



TEST REPORT

Application No.: GZCR2109021104AT
Applicant: Harman International Industries, Incorporated
Address of Applicant: 8500 Balboa Blvd, Northridge, CA 91329, United States
Manufacturer: Harman International Industries, Incorporated
Address of Manufacturer: 8500 Balboa Blvd, Northridge, CA 91329, United States
Factory: Guoguang Electric Co., Ltd
Address of Factory: No.8 Jinghu Road, Xinya Street, Huadu Reg, Guangzhou, China
Equipment Under Test (EUT):
EUT Name: WIRELESS SPEAKER
Model No.: L75ms
Trade Mark: JBL
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2021-09-15
Date of Test: 2021-09-29 to 2021-11-09
Date of Issue: 2021-11-11

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

Kobe Jian
EMC Laboratory Manager





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 Guangzhou Branch EMC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-11-11		Original

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



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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
Frequency Stability		KDB 789033 II A 3	47 CFR Part 15, Subpart C 15.407 (g)	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		KDB 789033 D02 II B 2	KDB 789033 D02 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
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.

N/A: Not applicable.

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:	AC 100-240V 50/60Hz																																													
Cable(s):	About 1.2m x 2 wires unscreened AC mains cable																																													
	<table border="0"> <thead> <tr> <th>Band</th> <th>Mode</th> <th>Frequency Range(MHz)</th> <th>Number of channels</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Band 1</td> <td>802.11a/n(HT20)/ac(HT20)</td> <td>5180-5240</td> <td>4</td> </tr> <tr> <td>802.11n(HT40)/ac(HT40)</td> <td>5190-5230</td> <td>2</td> </tr> <tr> <td>802.11ac(HT80)</td> <td>5210</td> <td>1</td> </tr> <tr> <td rowspan="2">Band 2</td> <td>802.11a/n(HT20)/ac(HT20)</td> <td>5260-5320</td> <td>4</td> </tr> <tr> <td>802.11n(HT40)/ac(HT40)</td> <td>5270-5310</td> <td>2</td> </tr> <tr> <td rowspan="2">Operation Frequency:</td> <td>802.11ac(HT80)</td> <td>5290</td> <td>1</td> </tr> <tr> <td rowspan="3">Band 3</td> <td>802.11a/n(HT20)/ac(HT20)</td> <td>5500-5700</td> <td>11</td> </tr> <tr> <td>802.11n(HT40)/ac(HT40)</td> <td>5510-5670</td> <td>5</td> </tr> <tr> <td>802.11ac(HT80)</td> <td>5530-5610</td> <td>2</td> </tr> <tr> <td rowspan="3">Band 4</td> <td>802.11a/n(HT20)/ac(HT20)</td> <td>5745-5825</td> <td>5</td> </tr> <tr> <td>802.11n(HT40)/ac(HT40)</td> <td>5755-5795</td> <td>2</td> </tr> <tr> <td>802.11ac(HT80)</td> <td>5775</td> <td>1</td> </tr> </tbody> </table>	Band	Mode	Frequency Range(MHz)	Number of channels	Band 1	802.11a/n(HT20)/ac(HT20)	5180-5240	4	802.11n(HT40)/ac(HT40)	5190-5230	2	802.11ac(HT80)	5210	1	Band 2	802.11a/n(HT20)/ac(HT20)	5260-5320	4	802.11n(HT40)/ac(HT40)	5270-5310	2	Operation Frequency:	802.11ac(HT80)	5290	1	Band 3	802.11a/n(HT20)/ac(HT20)	5500-5700	11	802.11n(HT40)/ac(HT40)	5510-5670	5	802.11ac(HT80)	5530-5610	2	Band 4	802.11a/n(HT20)/ac(HT20)	5745-5825	5	802.11n(HT40)/ac(HT40)	5755-5795	2	802.11ac(HT80)	5775	1
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	802.11n(HT40)/ac(HT40)	5755-5795	2																																											
	802.11ac(HT80)	5775	1																																											
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)																																													
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz																																													
DFS Function	Slave without Radar detection																																													
Antenna Type	Integral antenna																																													
Antenna Gain	Antenna 1:7dBi Antenna 2:7dBi Two antennas can simultaneous transmission.																																													
Software version:	0.0.1.4																																													
Hardware version	DV2																																													
Sample No.	A2																																													
Power setting	FCC version																																													

4.2 Description of Support Units

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



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	3.12dB
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	5.06dB (30MHz-1GHz ; 3m)
	4.46dB (30MHz-1GHz ; 10m)
	5.08dB (1GHz-6GHz)
	5.14dB (above 6GHz)
Radiated Emissions which fall in the restricted bands	5.06dB (30MHz-1GHz ; 3m)
	4.46dB (30MHz-1GHz ; 10m)
	5.08dB (1GHz-6GHz)
	5.14dB (above 6GHz)
Frequency Stability	± 7.25 x 10 ⁻⁸

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.



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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



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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	2021-01-08	2022-01-06
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	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20



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99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20

26dB Emission bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20



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Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20

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	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20



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Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2021-06-21	2022-06-20

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



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

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, 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.

6.1.2 Conclusion

EUT Antenna:

Both of two antenna uses a unique coupling to the intentional radiator and no consideration of replacement. The best case gain of the antenna is 7dBi.

Directional gain=Gant + 10 log(Nant) =10.01dBi

Please refer to internal photos.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

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.

6.2.2 Conclusion

EUT Details:

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



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6.3 Frequency Stability

6.3.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (g)

6.3.2 Conclusion

The grantee declared that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual, it comply the frequency stability requirement.



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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(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 62.7 % RH Atmospheric Pressure: 1008 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	07	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

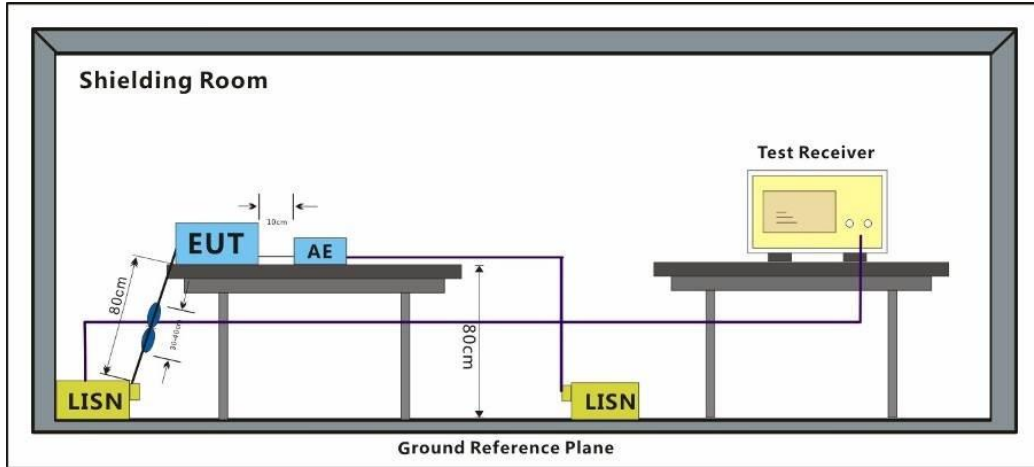


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rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram

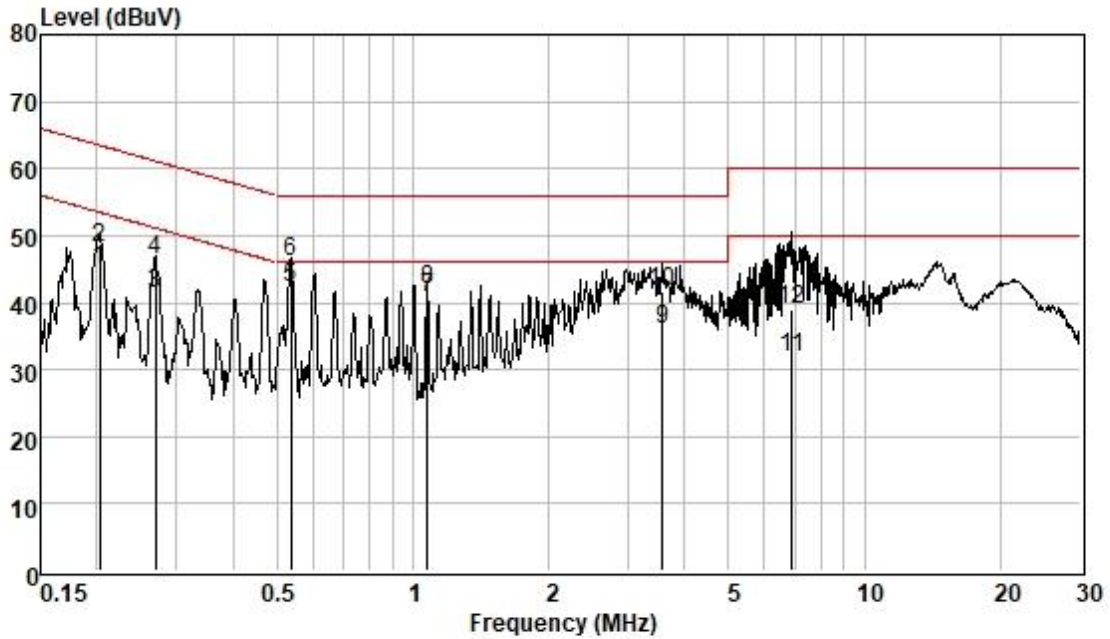


7.1.4 Measurement Procedure and Data

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

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

Test Mode: 04; Line: Live line



Pol :LINE
Mode :3#
Model :

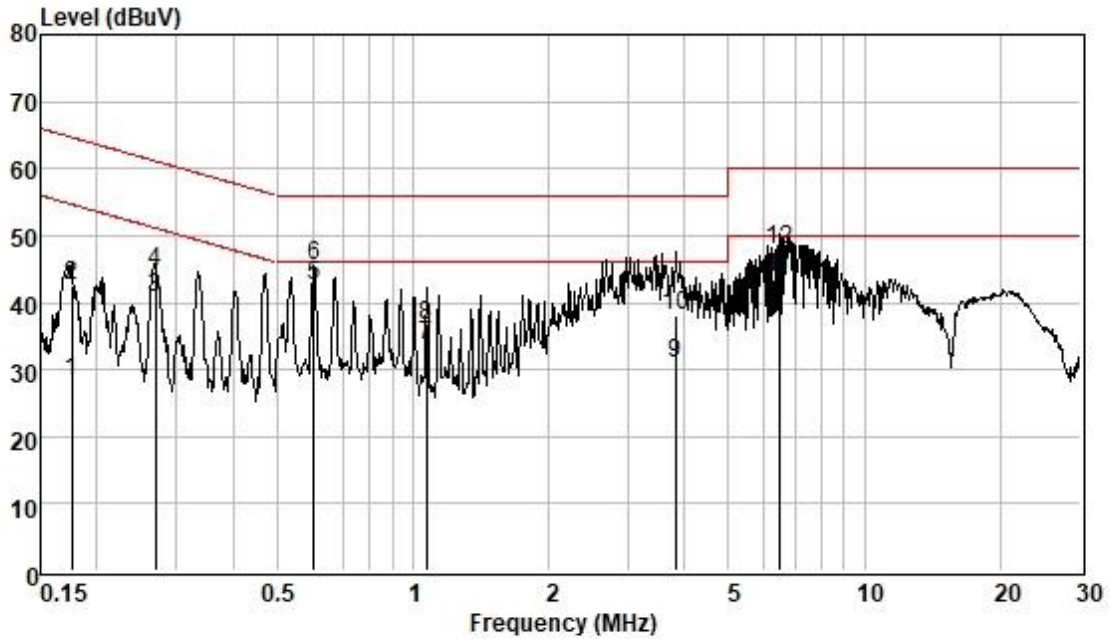
Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.20	35.08	0.06	9.63	44.77	53.49	-8.72	Average
0.20	38.58	0.06	9.63	48.27	63.49	-15.22	QP
0.27	31.74	0.06	9.62	41.42	51.12	-9.70	Average
0.27	36.77	0.06	9.62	46.45	61.12	-14.67	QP
0.54	32.48	0.07	9.63	42.18	46.00	-3.82	Average
0.54	36.31	0.07	9.63	46.01	56.00	-9.99	QP
1.08	31.15	0.08	9.62	40.85	46.00	-5.15	Average
1.08	32.27	0.08	9.62	41.97	56.00	-14.03	QP
3.57	26.11	0.16	9.62	35.89	46.00	-10.11	Average
3.57	31.74	0.16	9.62	41.52	56.00	-14.48	QP
6.91	21.84	0.20	9.67	31.71	50.00	-18.29	Average
6.91	29.07	0.20	9.67	38.94	60.00	-21.06	QP



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Test Mode: 04; Line: Neutral Line



Pol : NEUTRAL
Mode : 3#
Model :

Frequency MHz	Read Level dBUV	Cable Loss dB	LISN Factor dB	Measured Level dBUV	Limit Line dBUV	Over Limit dB	Remark
0.18	18.63	0.06	9.55	28.24	54.68	-26.44	Average
0.18	32.85	0.06	9.55	42.46	64.68	-22.22	QP
0.27	31.19	0.06	9.55	40.80	51.12	-10.32	Average
0.27	34.93	0.06	9.55	44.54	61.12	-16.58	QP
0.60	32.84	0.07	9.54	42.45	46.00	-3.55	Average
0.60	35.98	0.07	9.54	45.59	56.00	-10.41	QP
1.07	24.05	0.08	9.55	33.68	46.00	-12.32	Average
1.07	26.87	0.08	9.55	36.50	56.00	-19.50	QP
3.82	21.27	0.16	9.56	30.99	46.00	-15.01	Average
3.82	28.48	0.16	9.56	38.20	56.00	-17.80	QP
6.45	33.81	0.20	9.58	43.59	50.00	-6.41	Average
6.45	38.09	0.20	9.58	47.87	60.00	-12.13	QP



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
 Test Method: KDB 789033 D02 II B 2

7.2.1 E.U.T. Operation

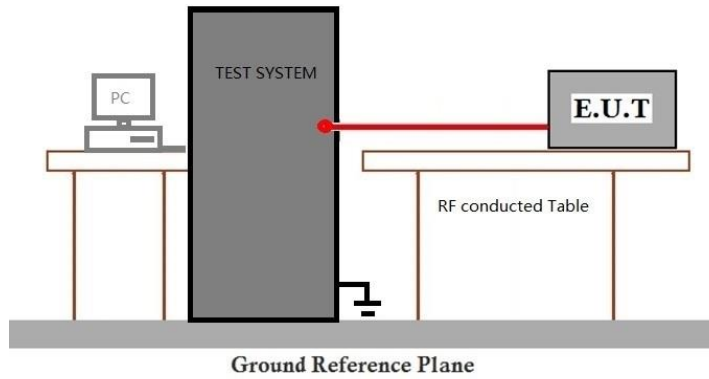
Operating Environment:
 Temperature: 23.6 °C Humidity: 46.7 % RH Atmospheric Pressure: 1018 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 99% Bandwidth

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

7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.6 °C Humidity: 46.7 % RH Atmospheric Pressure: 1018 mbar

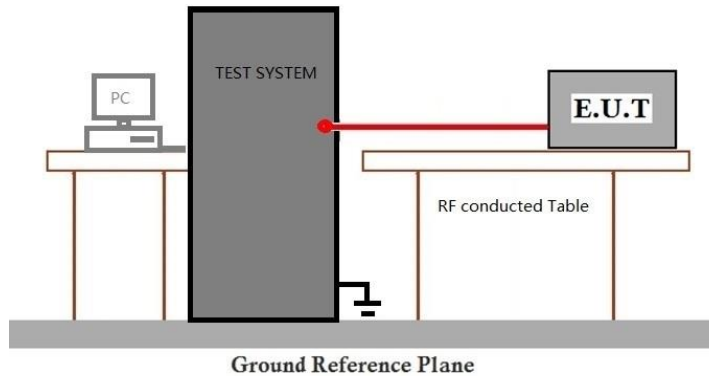
7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 23.6 °C Humidity: 46.7 % RH Atmospheric Pressure: 1018 mbar

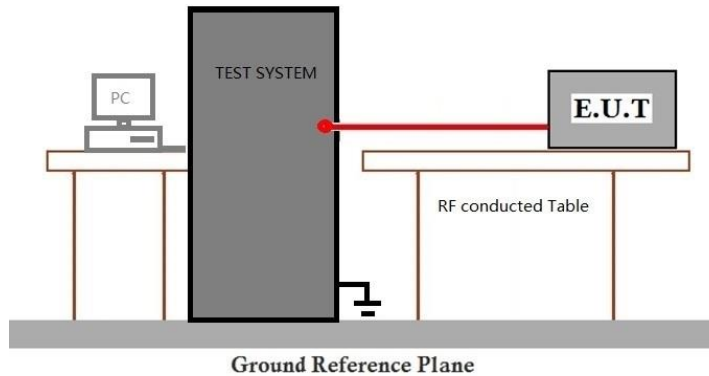
7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 23.6 °C Humidity: 46.7 % RH Atmospheric Pressure: 1018 mbar

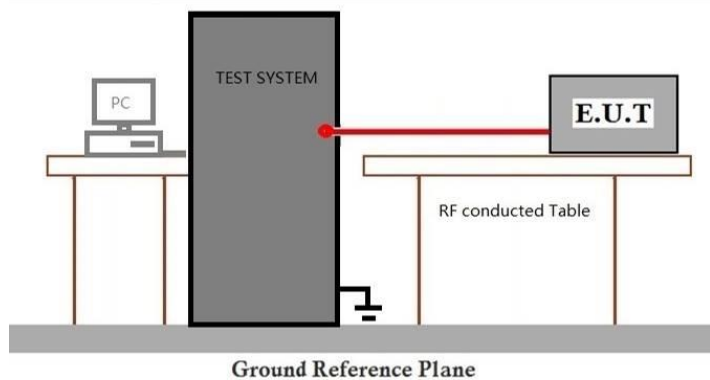
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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Final test	07	
------------	----	--

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

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 23.6 °C Humidity: 46.7 % RH Atmospheric Pressure: 1018 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all



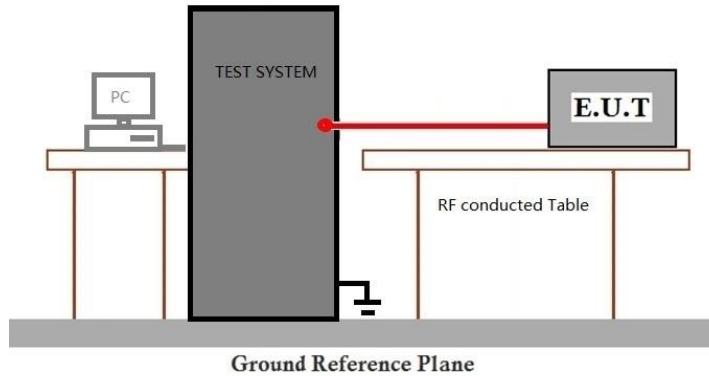
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modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 23.6 °C Humidity: 46.7 % RH Atmospheric Pressure: 1018 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	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

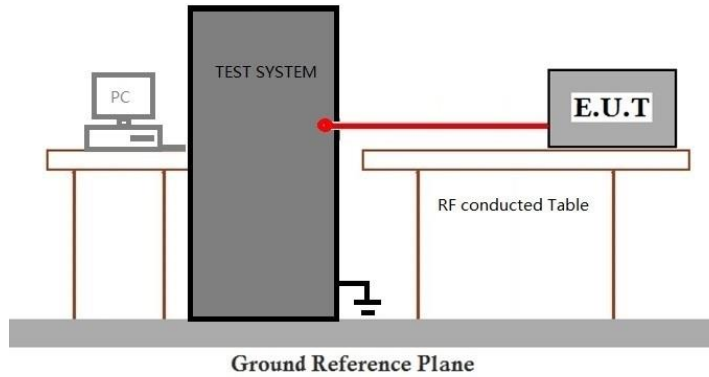


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is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

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: 24.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1003 mbar

7.8.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 04	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



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802.11ac(VHT80). 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). Only the data of worst case is recorded in the report.

Final test 05

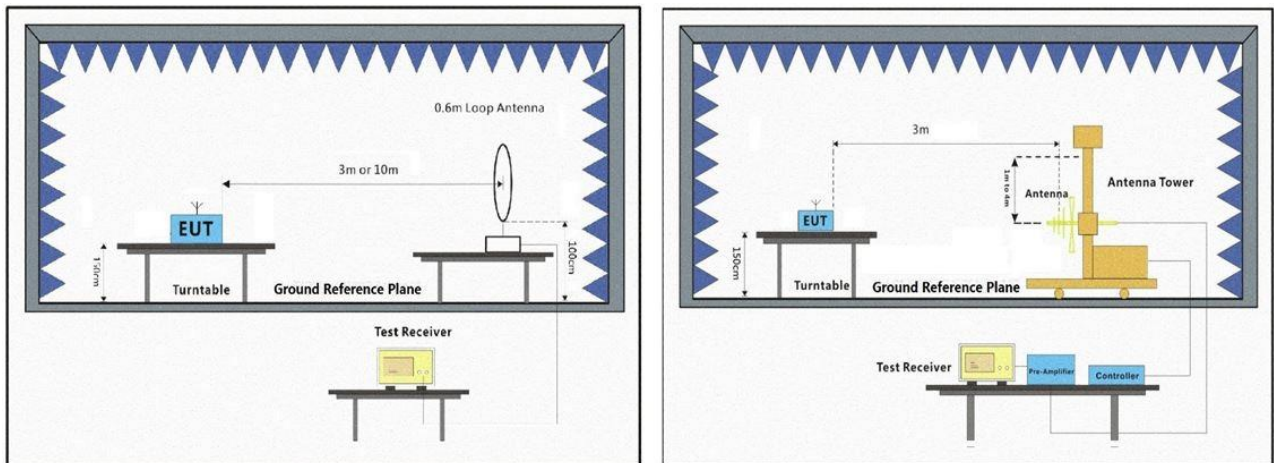
TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst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

Final test 06

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

Final test 07

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark1:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Remark2:

- 1. The disturbance below 30MHz was very low, and the below harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2. Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the worst case is MIMO mode.
- 3. Pretest the EUT in 802.11a/ n(20)/ n(40)/ ac (20)/ ac (40)/ ac(80) find the worst case are 802.11a /n(40)/ ac(80), only record the worst case test data 802.11a in this report.
- 4. For the emission 30MHz to 1Ghz, lowest, middle, highest channel test performed at band U-NII-1, U-NII-2A, U-NII-2C, U-NII-3, find the worst case is band U-NII-1 802.11a mode lowest channel, only record the worst case.

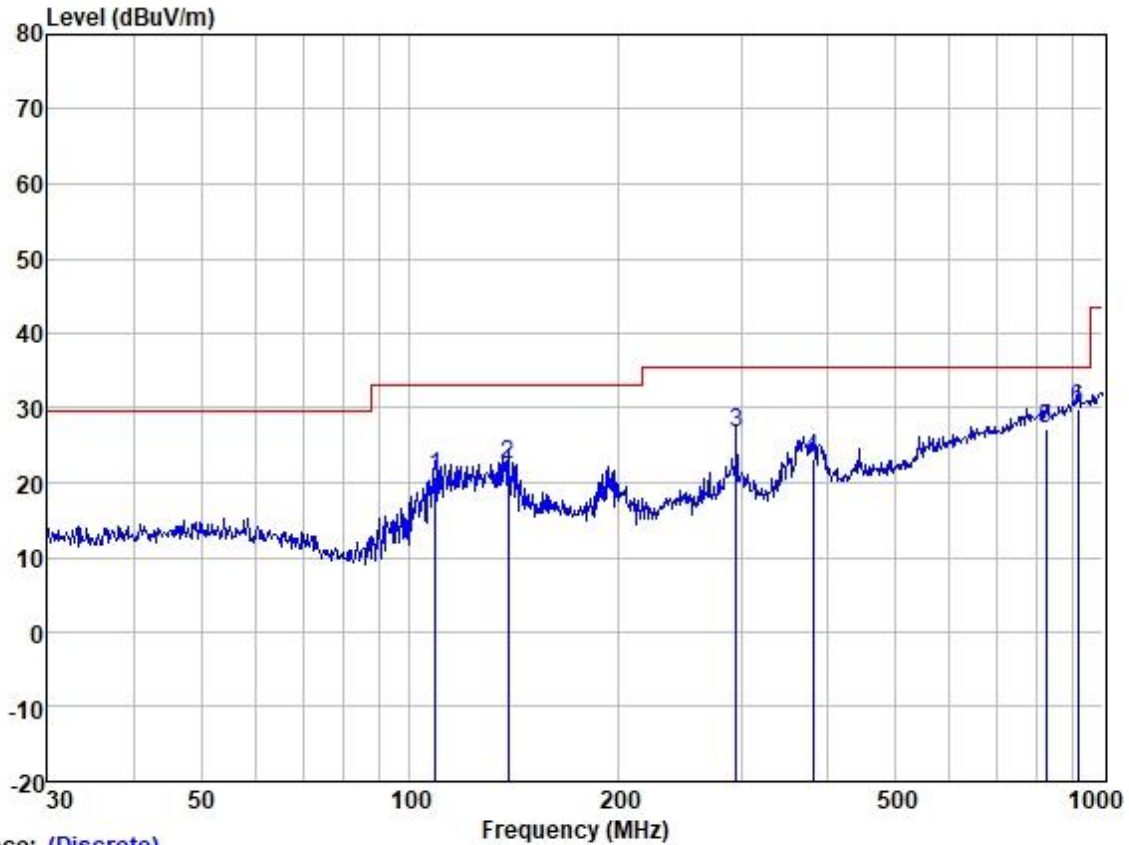


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Test Mode: 13; Polarity: Horizontal



Trace: (Discrete)

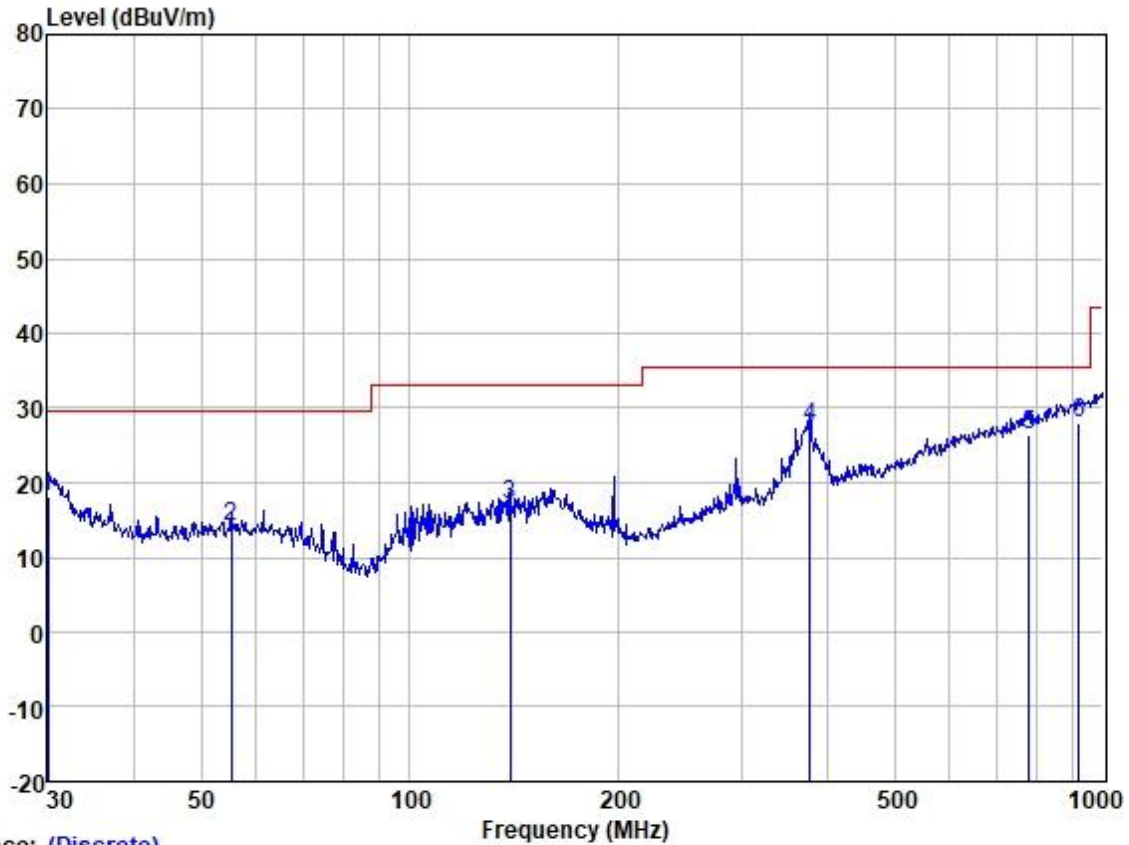
Site : SGS
 Job :
 Model : 3#
 Power :
 Test Mode : 5G WIFI

	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	dBuV		
1	108.65	35.84	10.33	1.78	27.06	20.89	33.10	-12.21	HORIZONTAL	QP
2	138.39	34.25	13.07	2.07	26.94	22.45	33.10	-10.65	HORIZONTAL	QP
3	295.15	36.53	13.50	3.15	26.55	26.63	35.60	-8.97	HORIZONTAL	QP
4	381.25	31.20	15.50	3.84	27.26	23.28	35.60	-12.32	HORIZONTAL	QP
5	827.49	26.02	22.72	6.38	27.99	27.13	35.60	-8.47	HORIZONTAL	QP
6	919.29	27.03	23.60	7.01	27.82	29.82	35.60	-5.78	HORIZONTAL	QP



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Test Mode: 13; Polarity: Vertical



Trace: (Discrete)

Site : SGS
Job :
Model : 3#
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	dBuV		
1	30.00	32.04	12.40	1.02	27.20	18.26	29.50	-11.24	VERTICAL	QP
2	55.22	26.24	13.74	1.20	27.16	14.02	29.50	-15.48	VERTICAL	QP
3	139.36	28.80	13.23	2.07	26.93	17.17	33.10	-15.93	VERTICAL	QP
4	377.26	35.37	15.45	3.82	27.23	27.41	35.60	-8.19	VERTICAL	QP
5	782.35	26.04	22.35	6.11	28.05	26.45	35.60	-9.15	VERTICAL	QP
6	922.52	25.15	23.67	7.01	27.82	28.01	35.60	-7.59	VERTICAL	QP



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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

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: 24.0 °C Humidity: 61.5 % RH Atmospheric Pressure: 1003 mbar

7.9.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 04	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



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802.11ac(VHT80). 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). Only the data of worst case is recorded in the report.

Final test 05

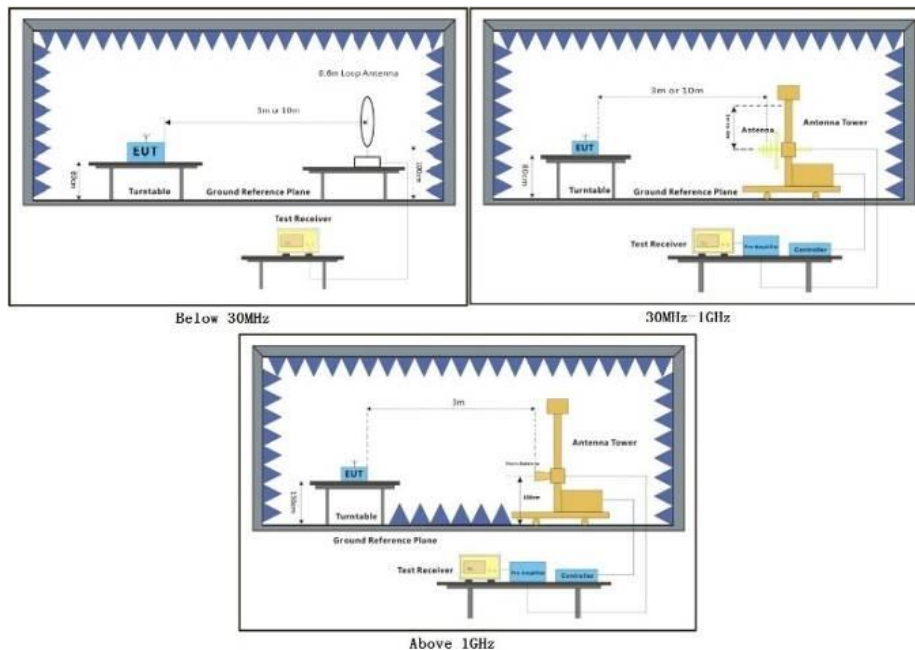
TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst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

Final test 06

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

Final test 07

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark2:

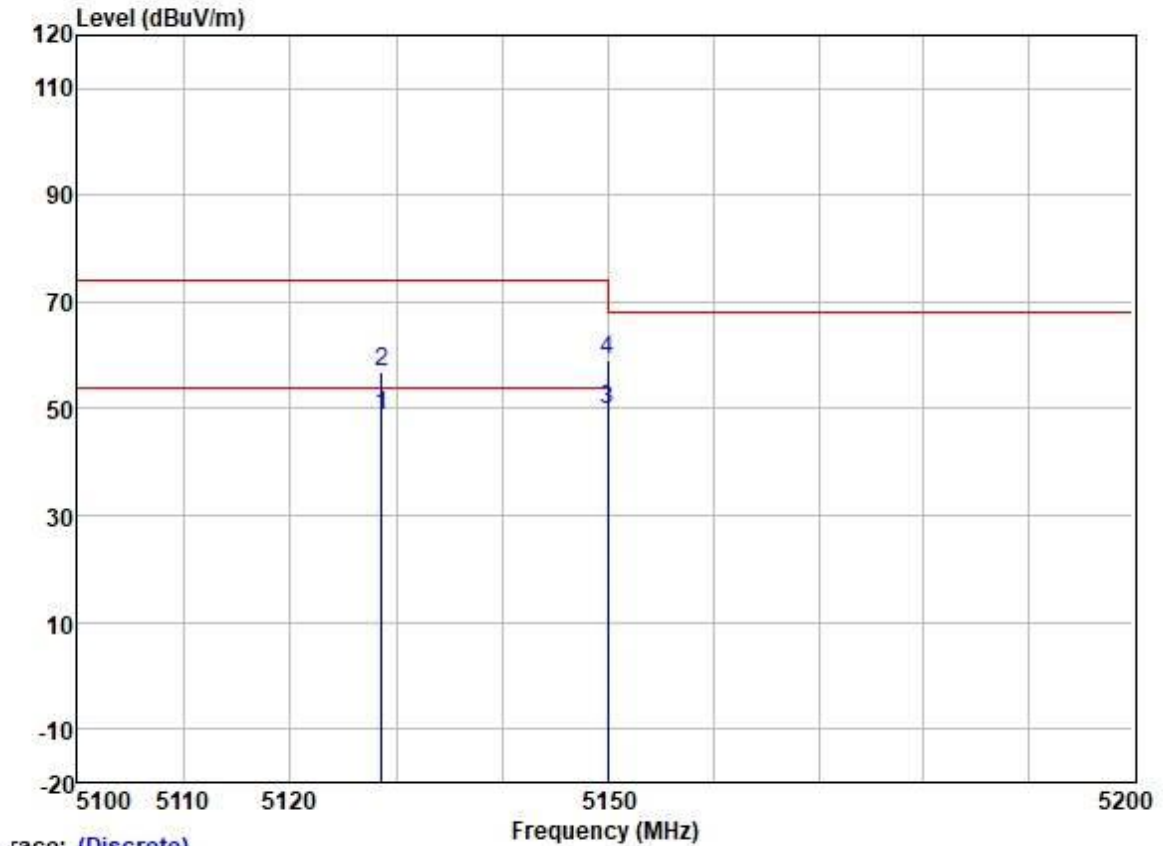
- 1). Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the worst case is MIMO mode.
- 2). Pretest the EUT in 802.11a/ n(20)/ n(40)/ac (20)/ ac (40)/ ac(80) find the worst case are 802.11a /n(40)/ ac(80), only record the worst case test data 802.11a /n(40)/ ac(80) in this report.
- 3). The port 1 for high channel and port 2 for low channel is the fundamental frequency of the band and refer to section 7.6 for details.



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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



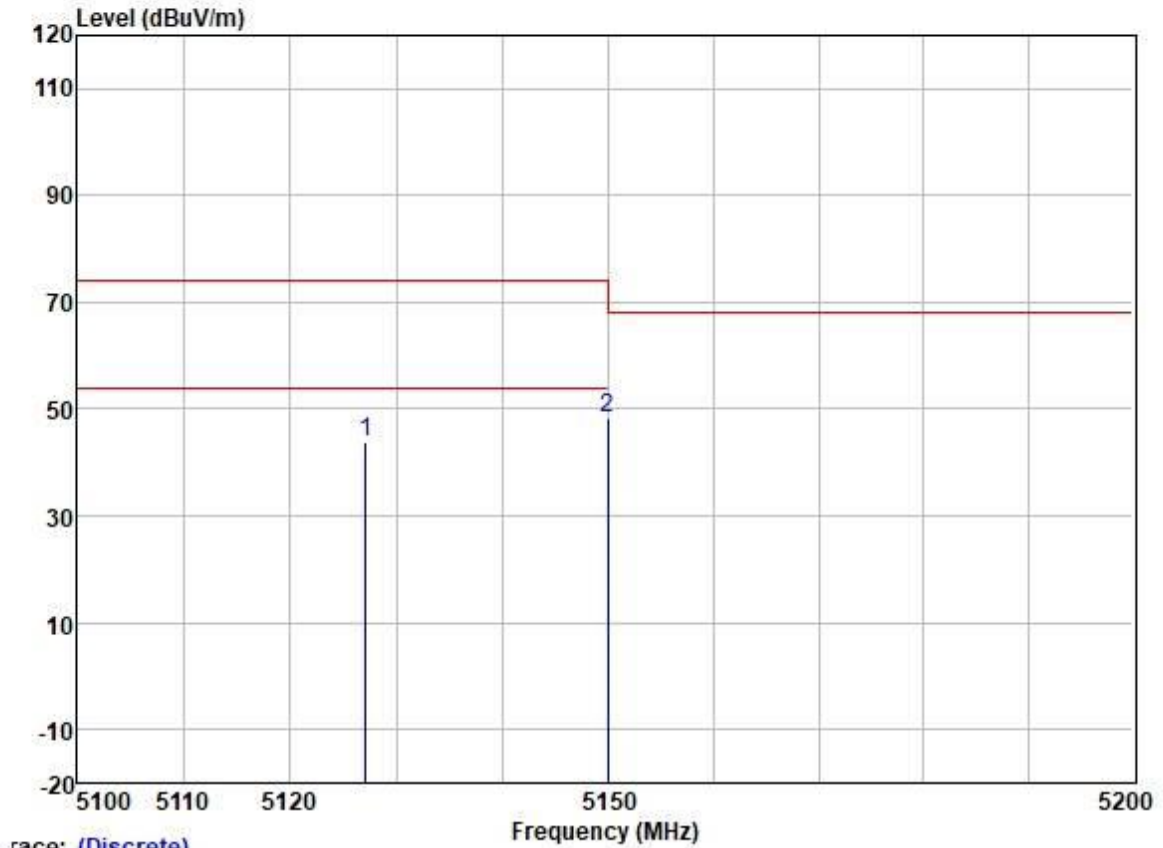
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5128.601	48.08	31.72	5.63	36.86	48.57	-5.43	VERTICAL	Average
2	5128.601	56.53	31.72	5.63	36.86	57.02	-16.98	VERTICAL	Peak
3	5150.000	49.39	31.72	5.62	36.86	49.87	-4.13	VERTICAL	Average
4	5150.000	58.58	31.72	5.62	36.86	59.06	-9.14	VERTICAL	Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



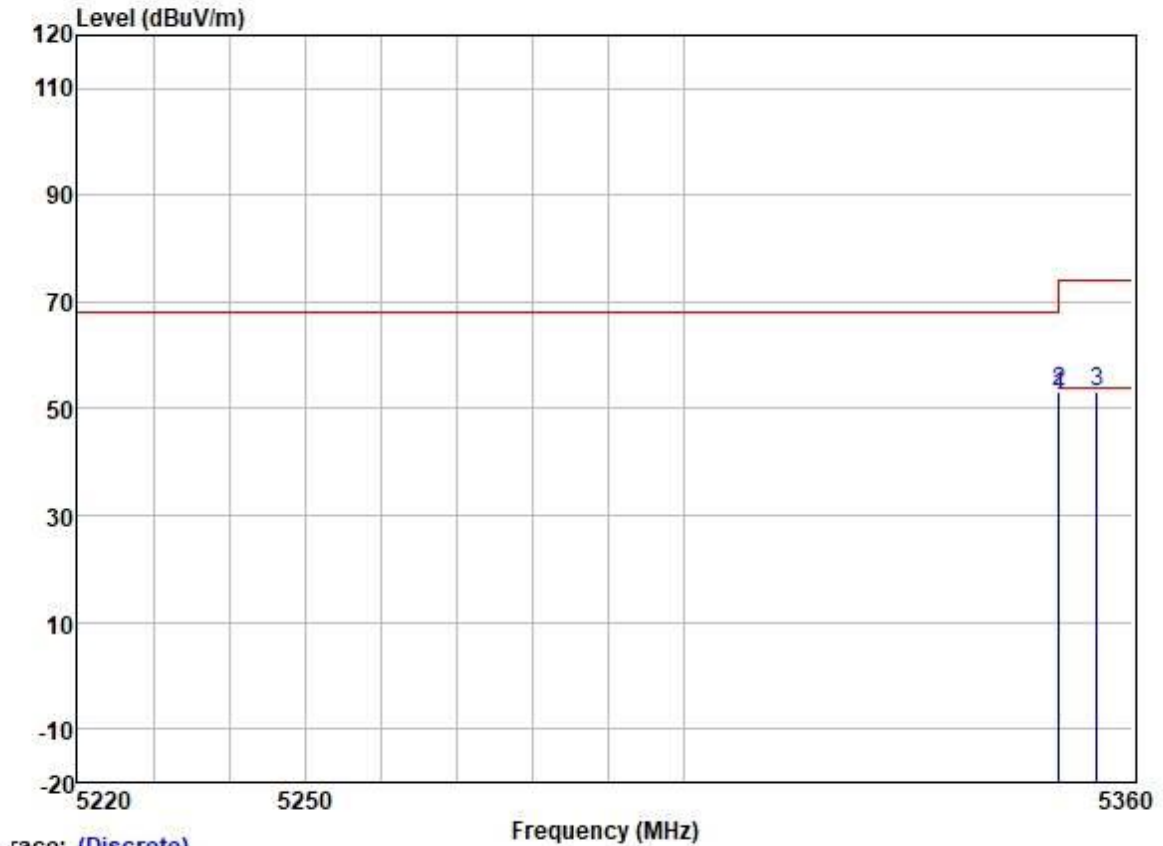
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5127.107	43.30	31.72	5.63	36.86	43.79	74.00	-30.21	HORIZONTAL Peak
2	5150.000	47.92	31.72	5.62	36.86	48.40	68.20	-19.80	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



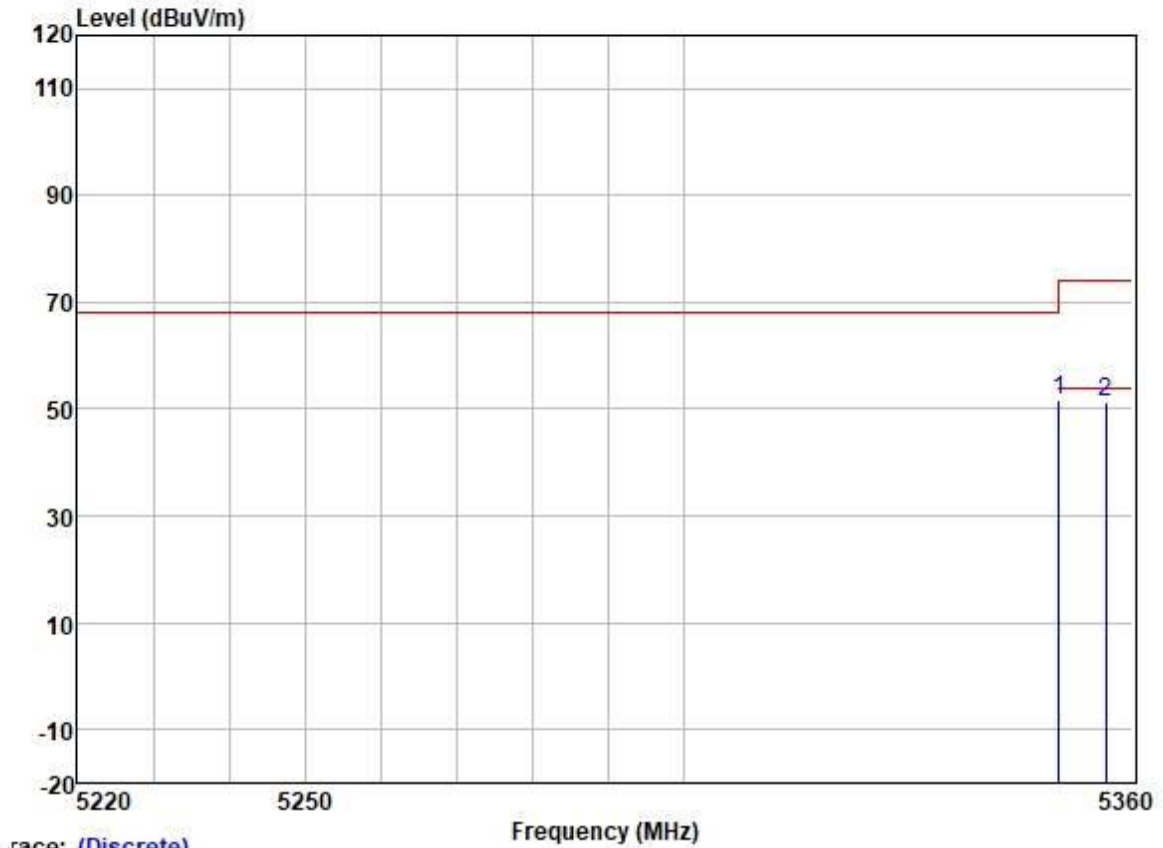
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5350.000	51.45	31.77	6.05	36.88	52.39	54.00	-1.61	VERTICAL Average
2	5350.000	52.22	31.77	6.05	36.88	53.16	68.20	-15.04	VERTICAL Peak
3	5355.179	52.19	31.78	6.03	36.88	53.12	74.00	-20.88	VERTICAL Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



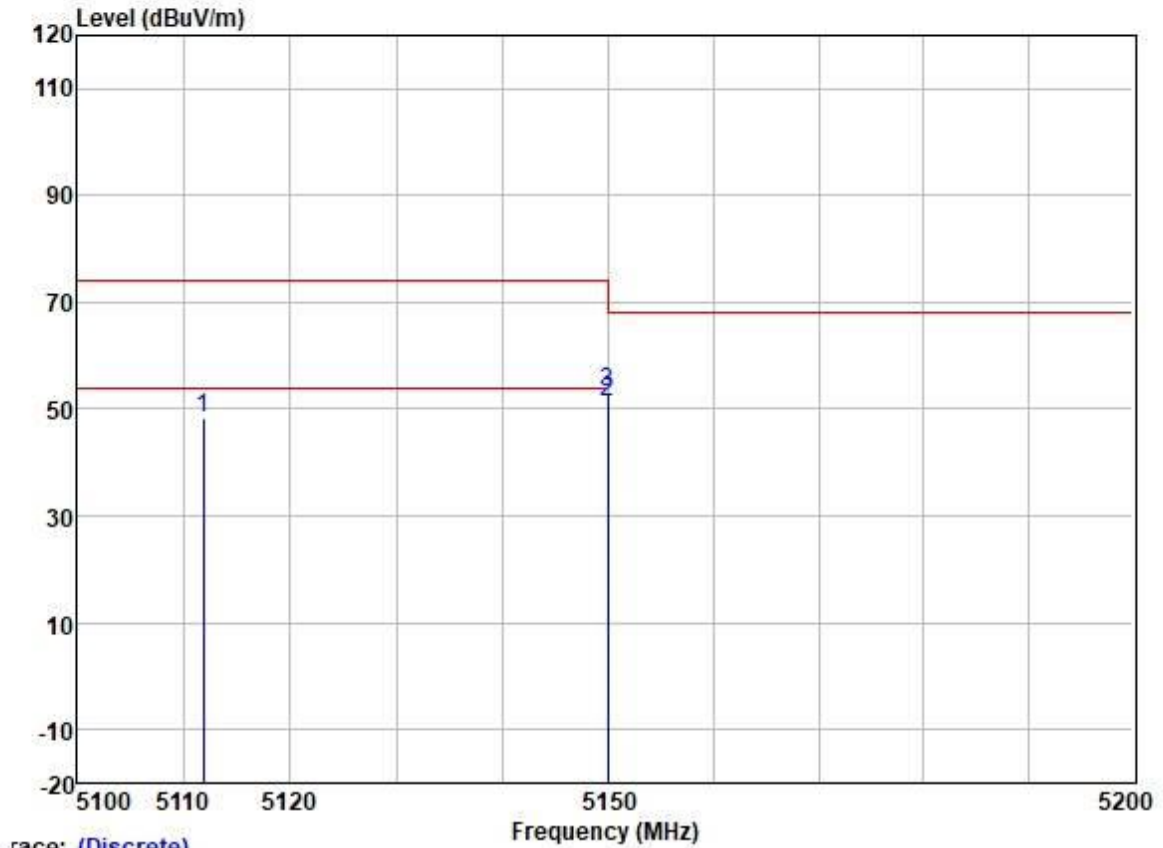
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	5350.000	50.89	31.77	6.05	36.88	51.83	68.20	-16.37 HORIZONTAL Peak
2	5356.313	50.50	31.78	6.03	36.88	51.43	74.00	-22.57 HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



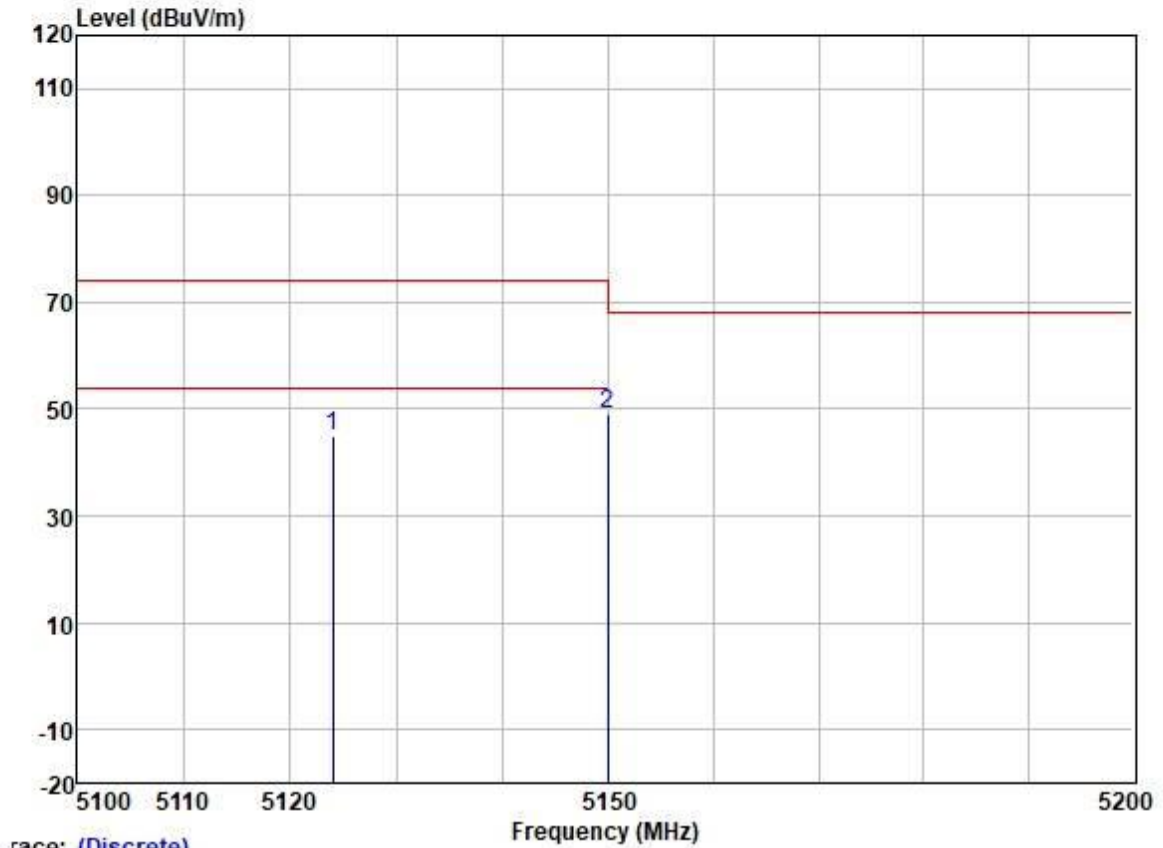
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5111.798	47.99	31.72	5.65	36.86	48.50	74.00	-25.50	VERTICAL Peak
2	5150.000	50.98	31.72	5.62	36.86	51.46	54.00	-2.54	VERTICAL Average
3	5150.000	52.85	31.72	5.62	36.86	53.33	68.20	-14.87	VERTICAL Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



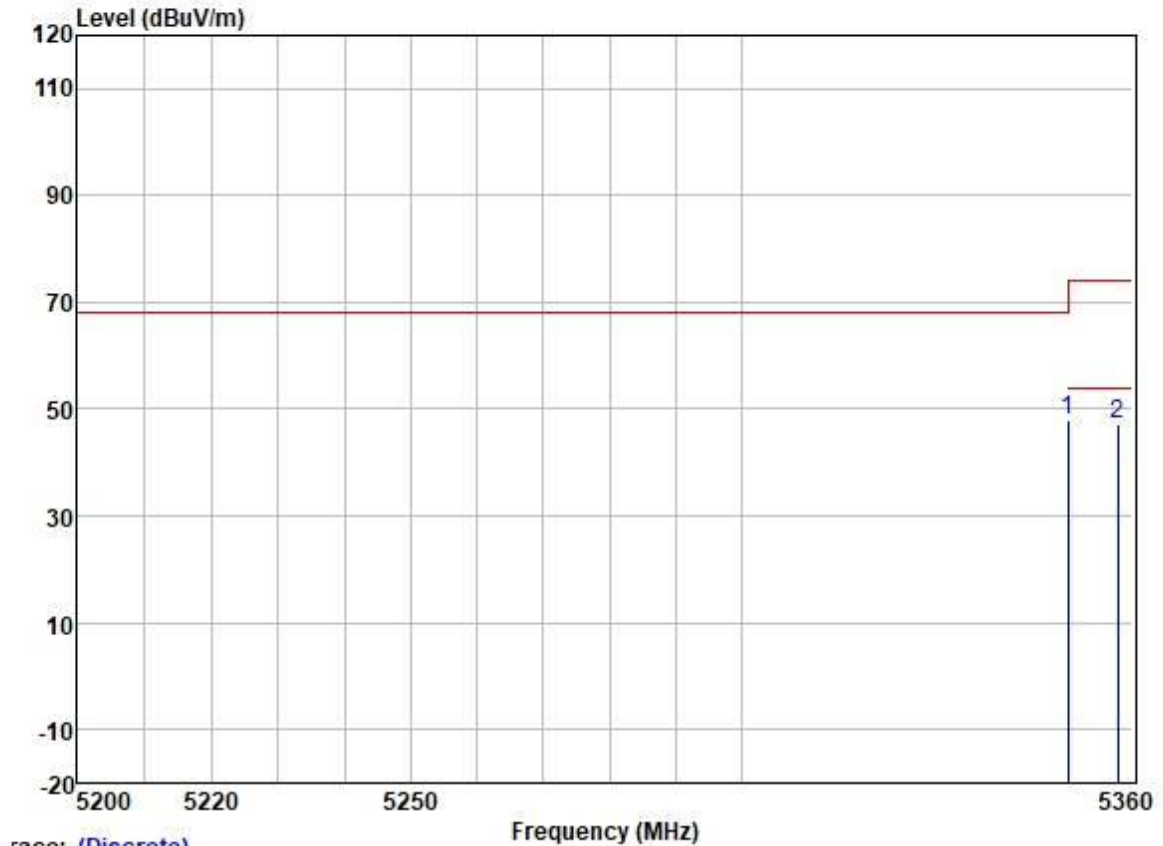
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5124.022	44.47	31.72	5.64	36.86	44.97	74.00	-29.03	HORIZONTAL Peak
2	5150.000	48.72	31.72	5.62	36.86	49.20	68.20	-19.00	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



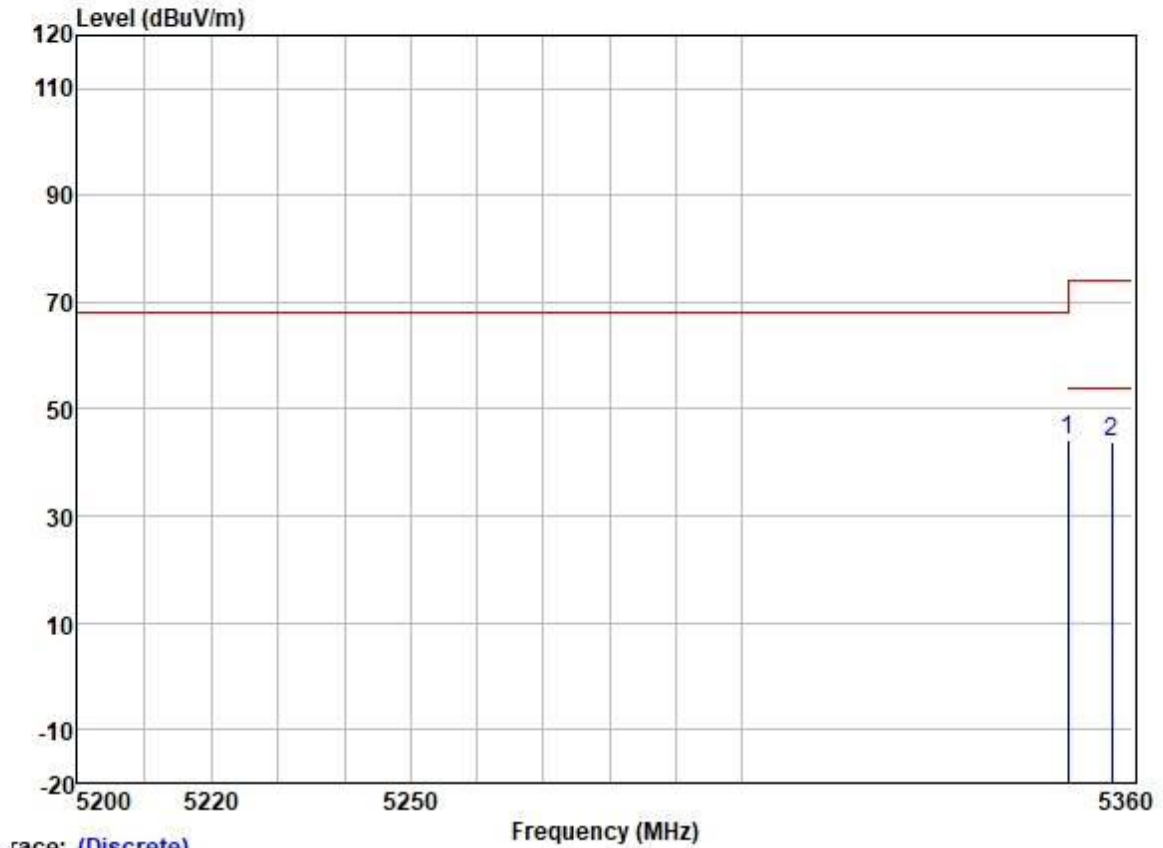
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	5350.000	46.89	31.77	6.05	36.88	47.83	68.20	-20.37 VERTICAL Peak
2	5357.564	46.46	31.78	6.03	36.88	47.39	74.00	-26.61 VERTICAL Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



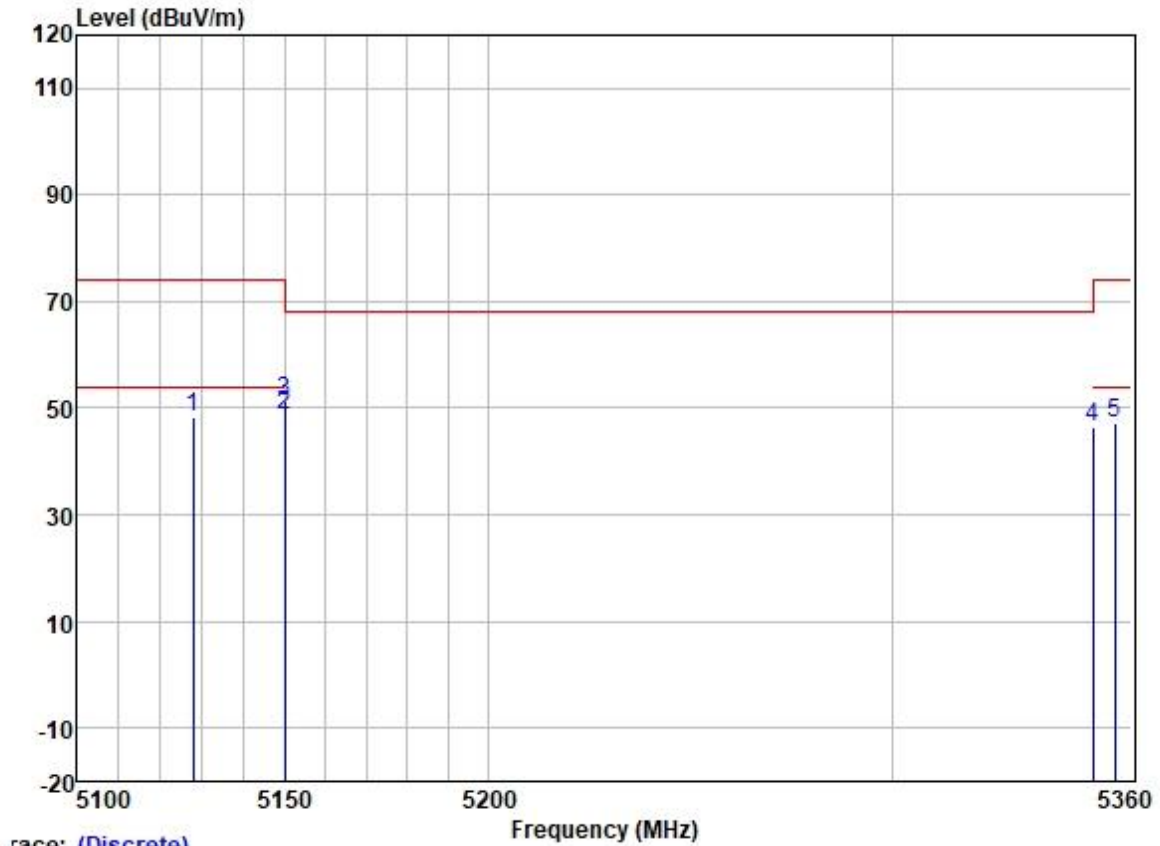
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5350.000	43.25	31.77	6.05	36.88	44.19	68.20	-24.01	HORIZONTAL Peak
2	5356.752	42.91	31.78	6.03	36.88	43.84	74.00	-30.16	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



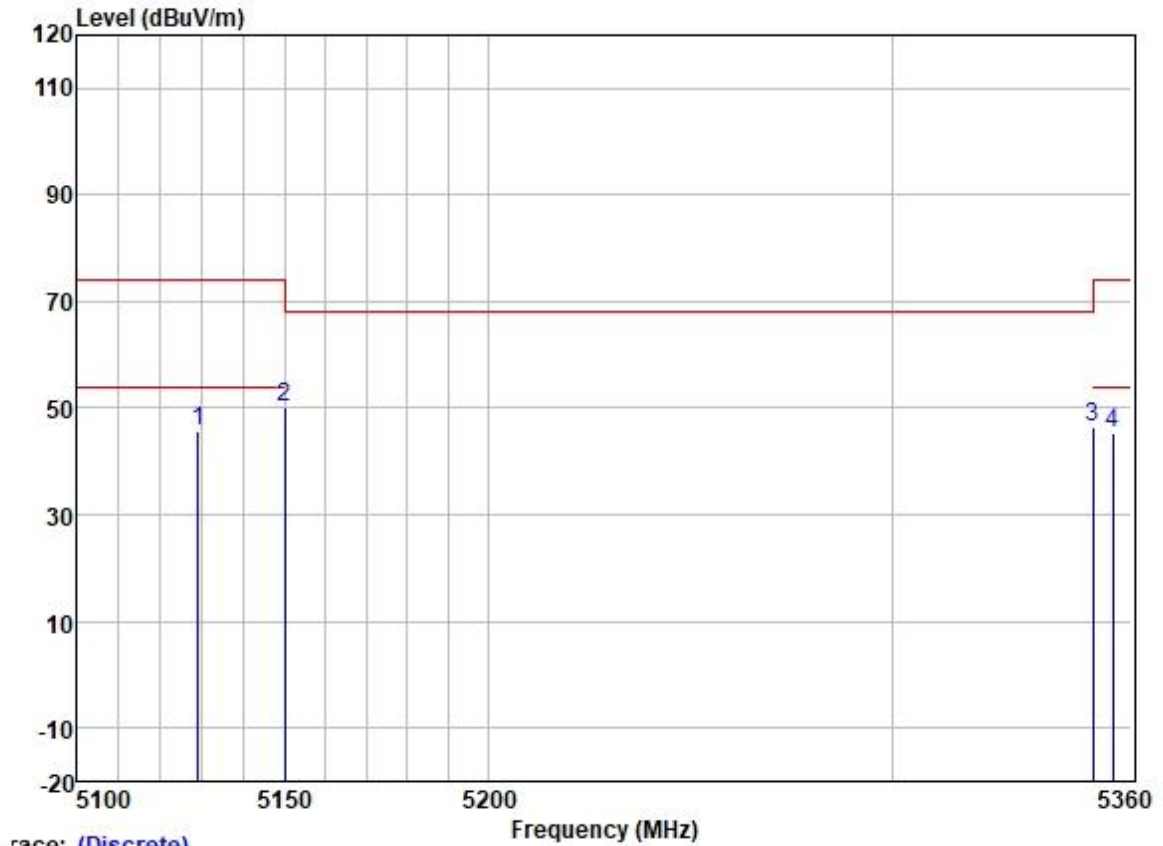
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5127.971	47.90	31.72	5.41	36.86	48.17	74.00 -25.83	VERTICAL	Peak
2	5150.000	48.32	31.72	5.62	36.86	48.80	54.00 -5.20	VERTICAL	Average
3	5150.000	50.94	31.72	5.62	36.86	51.42	68.20 -16.78	VERTICAL	Peak
4	5350.000	45.90	31.77	5.55	36.88	46.34	68.20 -21.86	VERTICAL	Peak
5	5355.737	46.77	31.78	5.55	36.88	47.22	74.00 -26.78	VERTICAL	Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



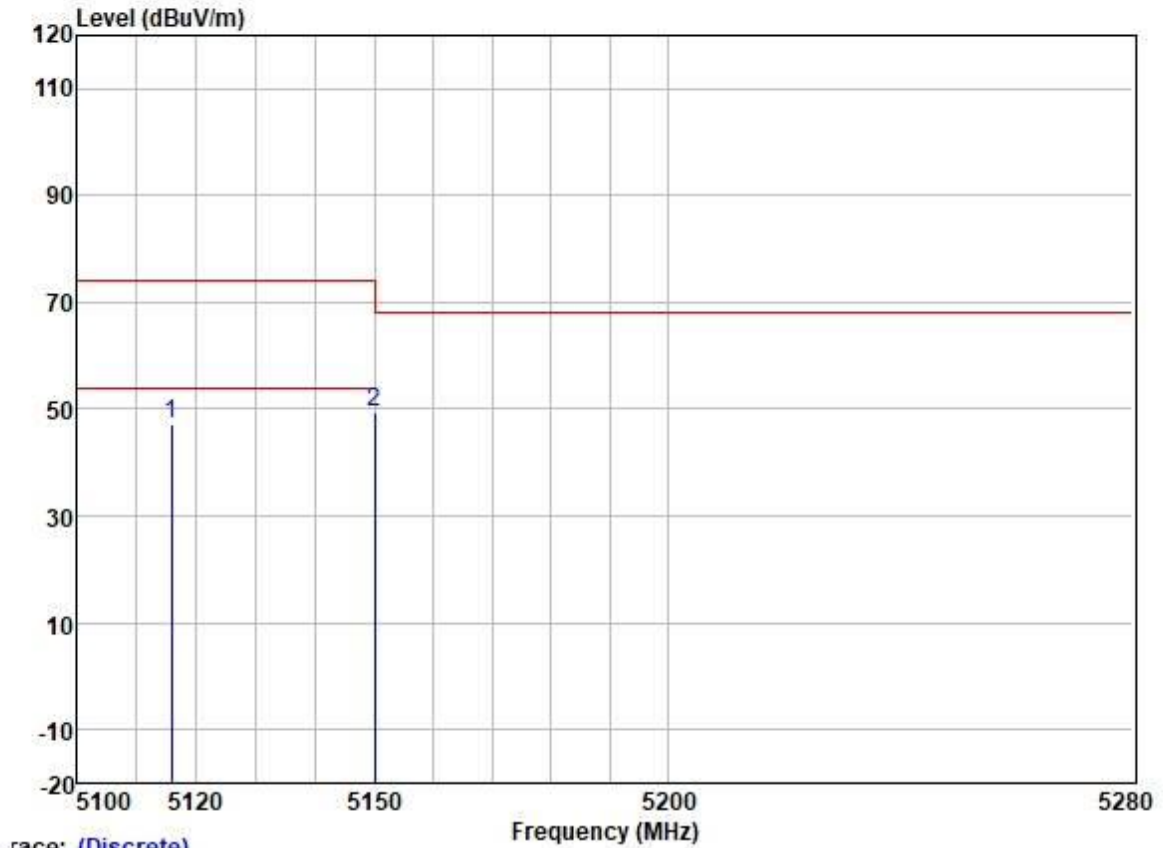
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5129.246	45.35	31.72	5.63	36.86	45.84	74.00	-28.16	HORIZONTAL Peak
2	5150.000	49.86	31.72	5.62	36.86	50.34	68.20	-17.86	HORIZONTAL Peak
3	5350.000	45.98	31.77	5.55	36.88	46.42	68.20	-21.78	HORIZONTAL Peak
4	5355.205	45.06	31.78	5.55	36.88	45.51	74.00	-28.49	HORIZONTAL Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



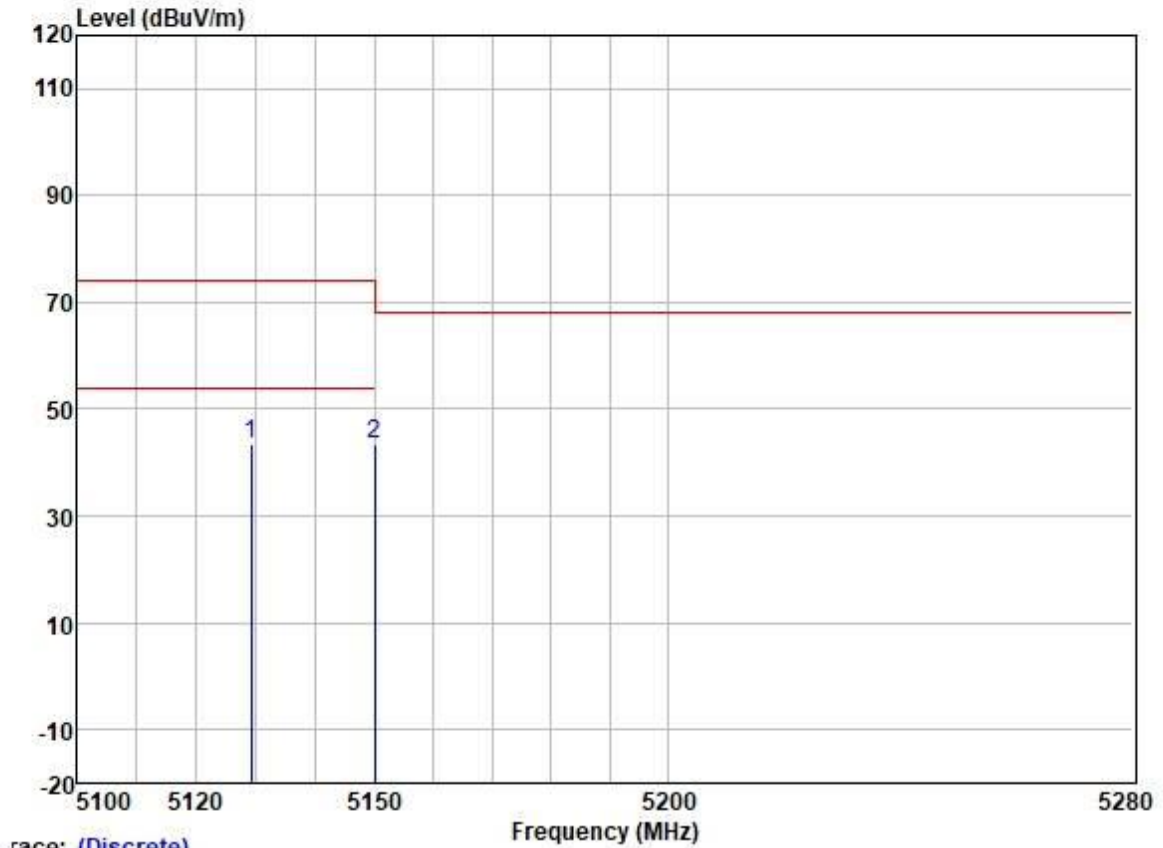
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5115.768	46.88	31.72	5.64	36.86	47.38	74.00	-26.62	VERTICAL Peak
2	5150.000	48.87	31.72	5.62	36.86	49.35	68.20	-18.85	VERTICAL Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



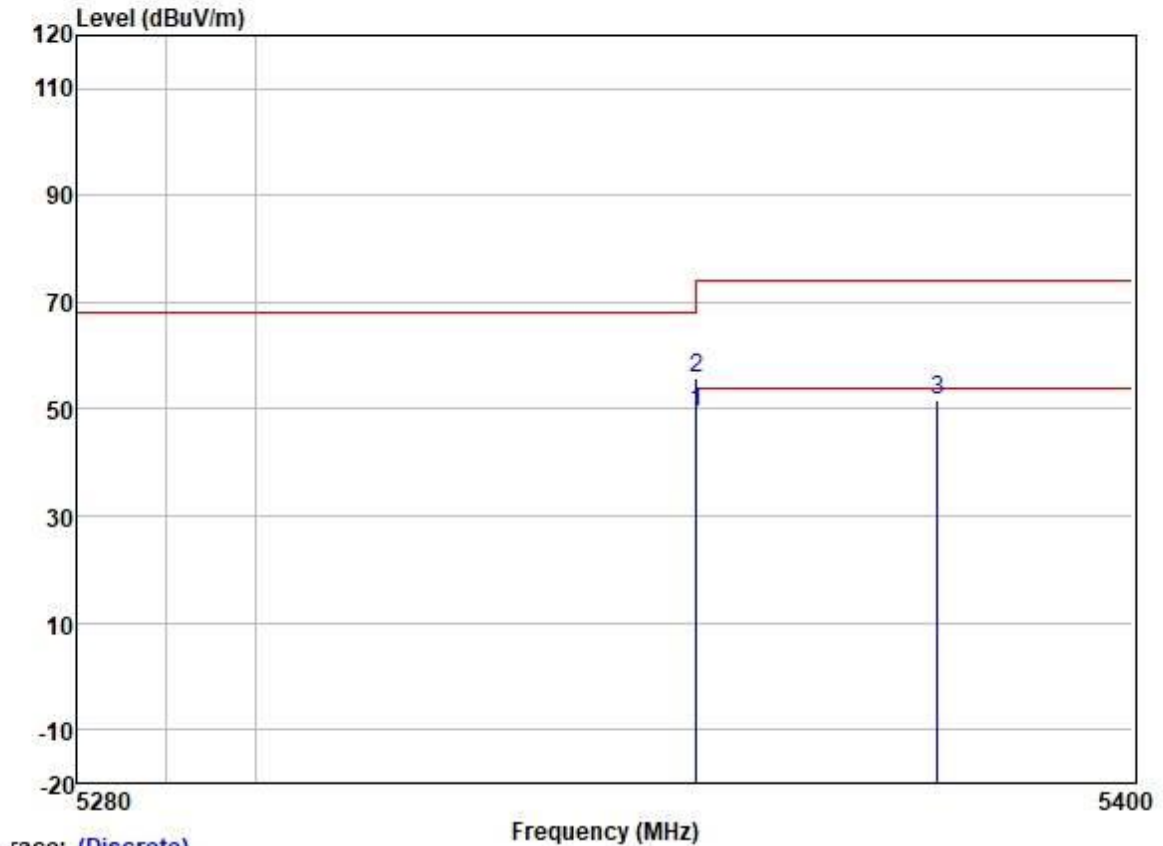
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5129.271	42.99	31.72	5.63	36.86	43.48	74.00	-30.52	HORIZONTAL Peak
2	5150.000	42.86	31.72	5.62	36.86	43.34	68.20	-24.86	HORIZONTAL Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



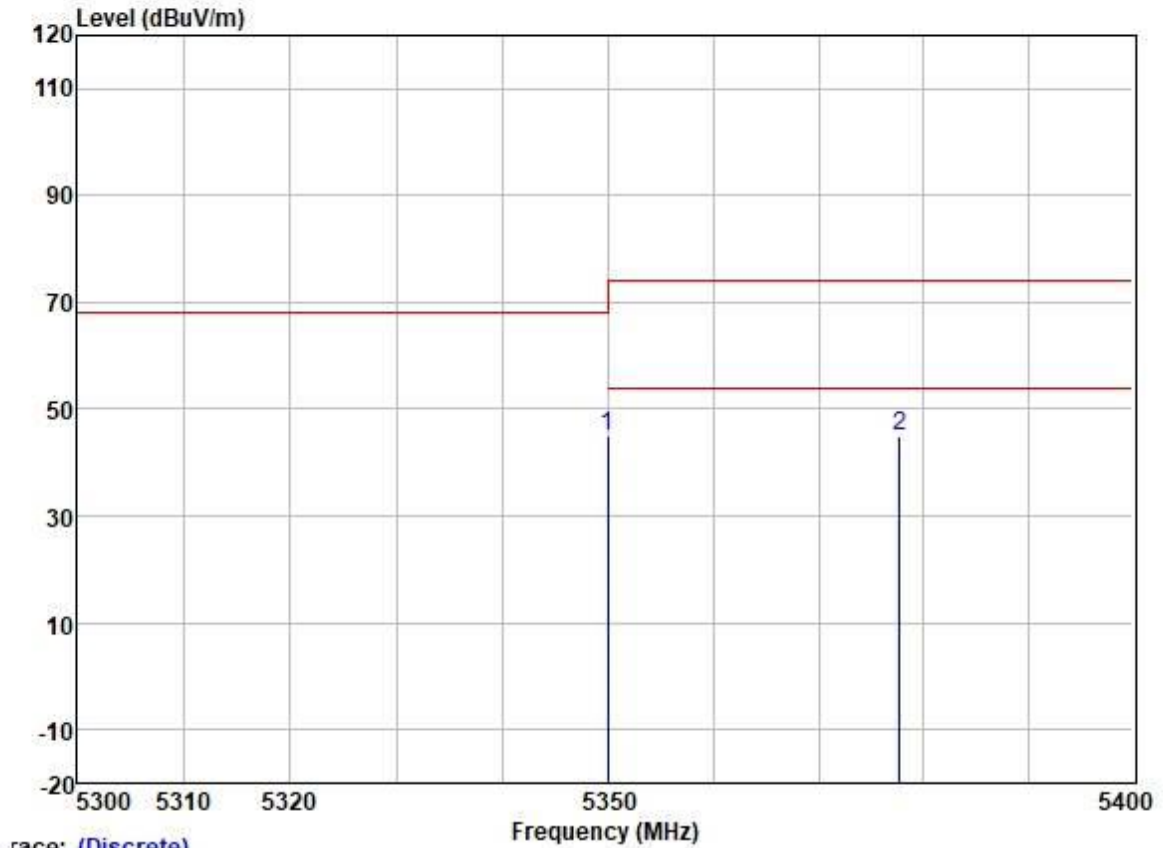
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5350.000	48.35	31.77	6.05	36.88	49.29	54.00	-4.71	VERTICAL Average
2	5350.000	54.90	31.77	6.05	36.88	55.84	68.20	-12.36	VERTICAL Peak
3	5377.596	50.74	31.78	6.02	36.88	51.66	74.00	-22.34	VERTICAL Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



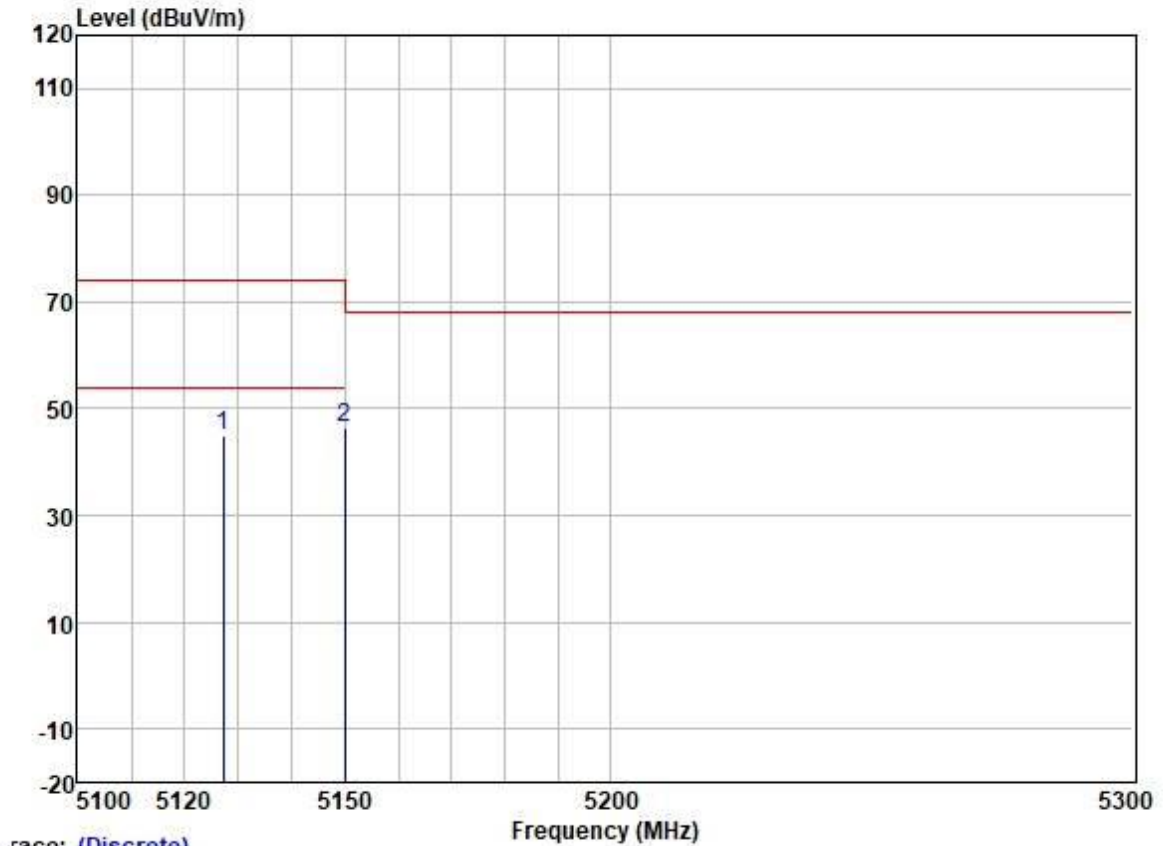
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5350.000	44.00	31.77	6.05	36.88	44.94	68.20	-23.26	HORIZONTAL Peak
2	5377.739	44.09	31.78	6.02	36.88	45.01	74.00	-28.99	HORIZONTAL Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



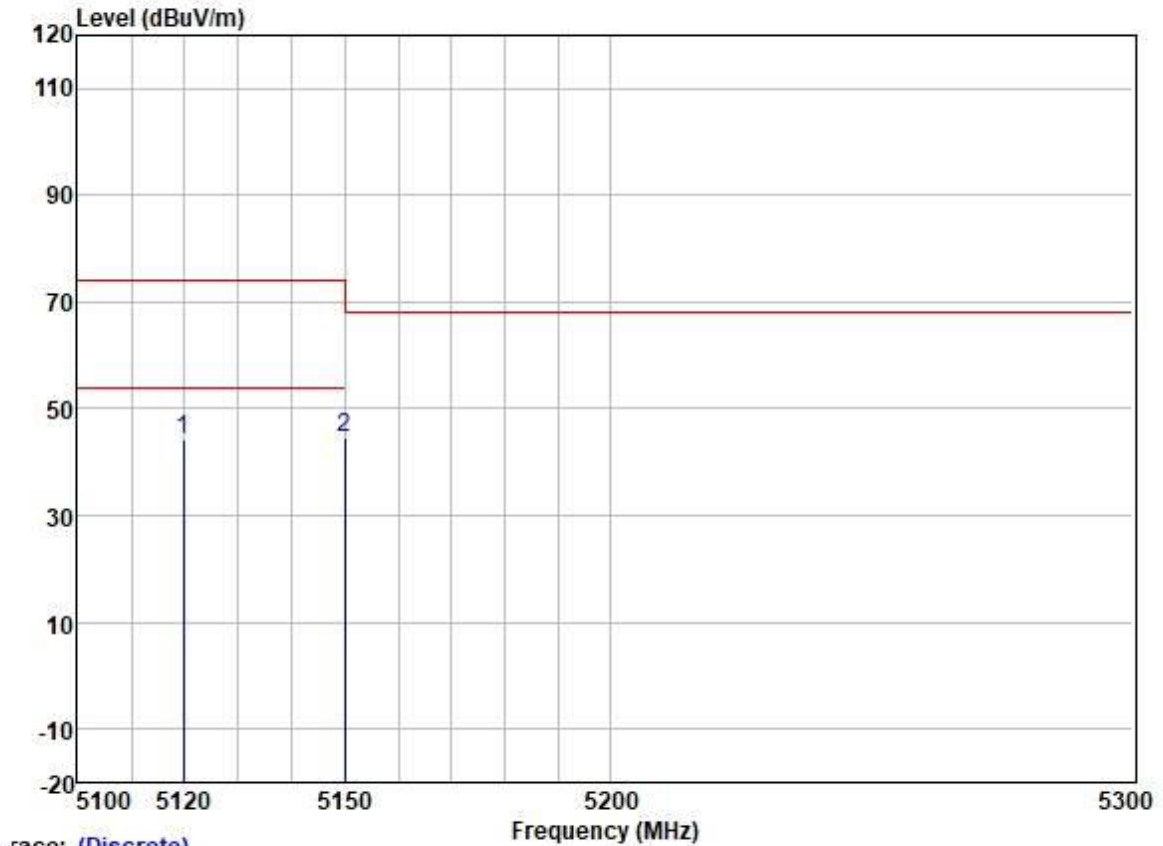
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5127.145	44.59	31.72	5.63	36.86	45.08	74.00	-28.92	VERTICAL Peak
2	5150.000	46.10	31.72	5.62	36.86	46.58	68.20	-21.62	VERTICAL Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



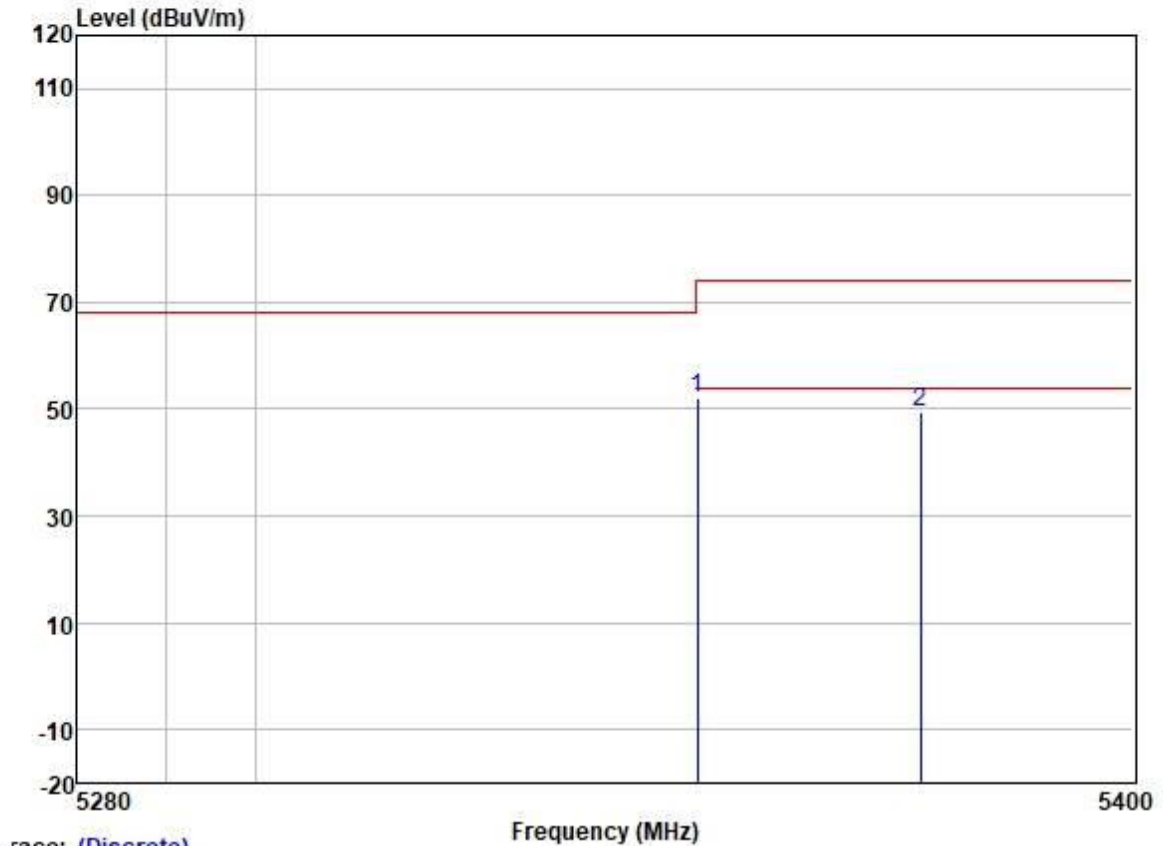
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5119.656	43.83	31.72	5.64	36.86	44.33	74.00	-29.67	HORIZONTAL Peak
2	5150.000	44.08	31.72	5.62	36.86	44.56	68.20	-23.64	HORIZONTAL Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



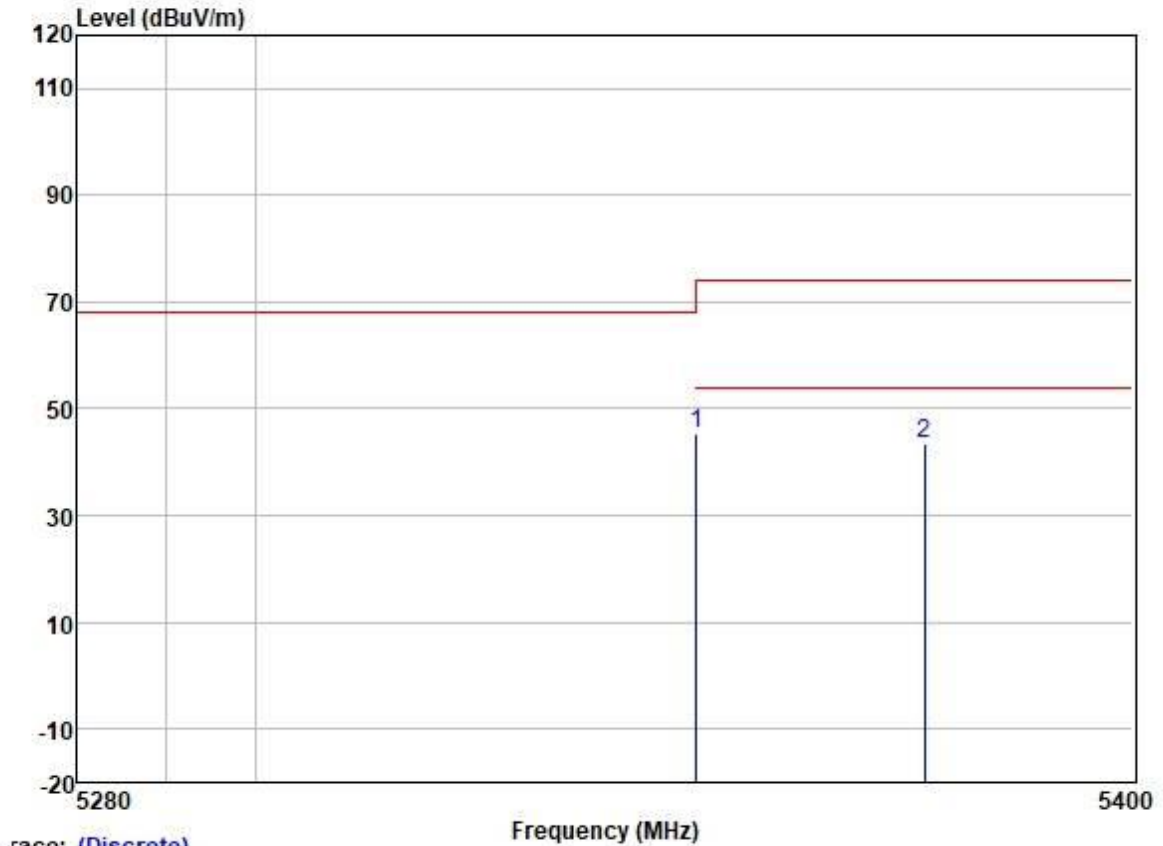
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5350.113	51.15	31.77	6.05	36.88	52.09	74.00	-21.91	VERTICAL Peak
2	5375.663	48.56	31.78	6.02	36.88	49.48	74.00	-24.52	VERTICAL Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



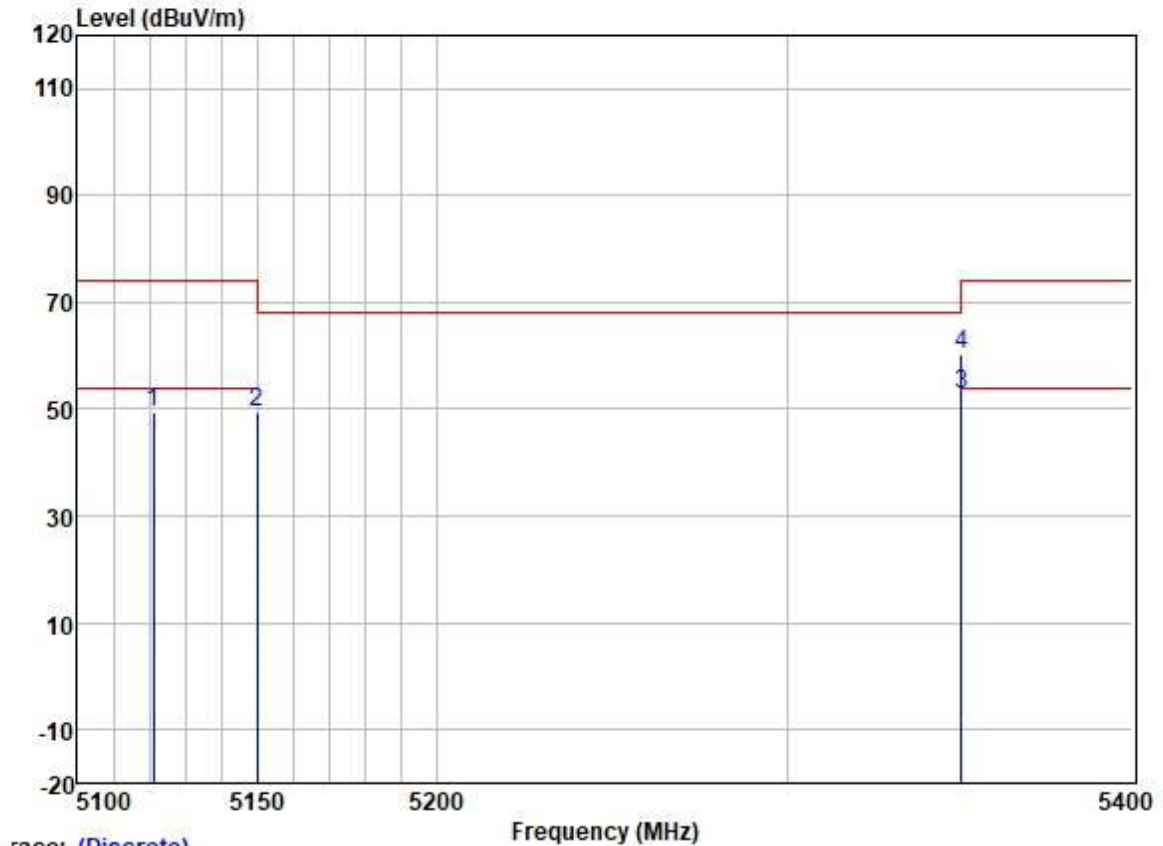
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5350.000	44.37	31.77	6.05	36.88	45.31	68.20	-22.89	HORIZONTAL	Peak
2	5376.025	42.37	31.78	6.02	36.88	43.29	74.00	-30.71	HORIZONTAL	Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



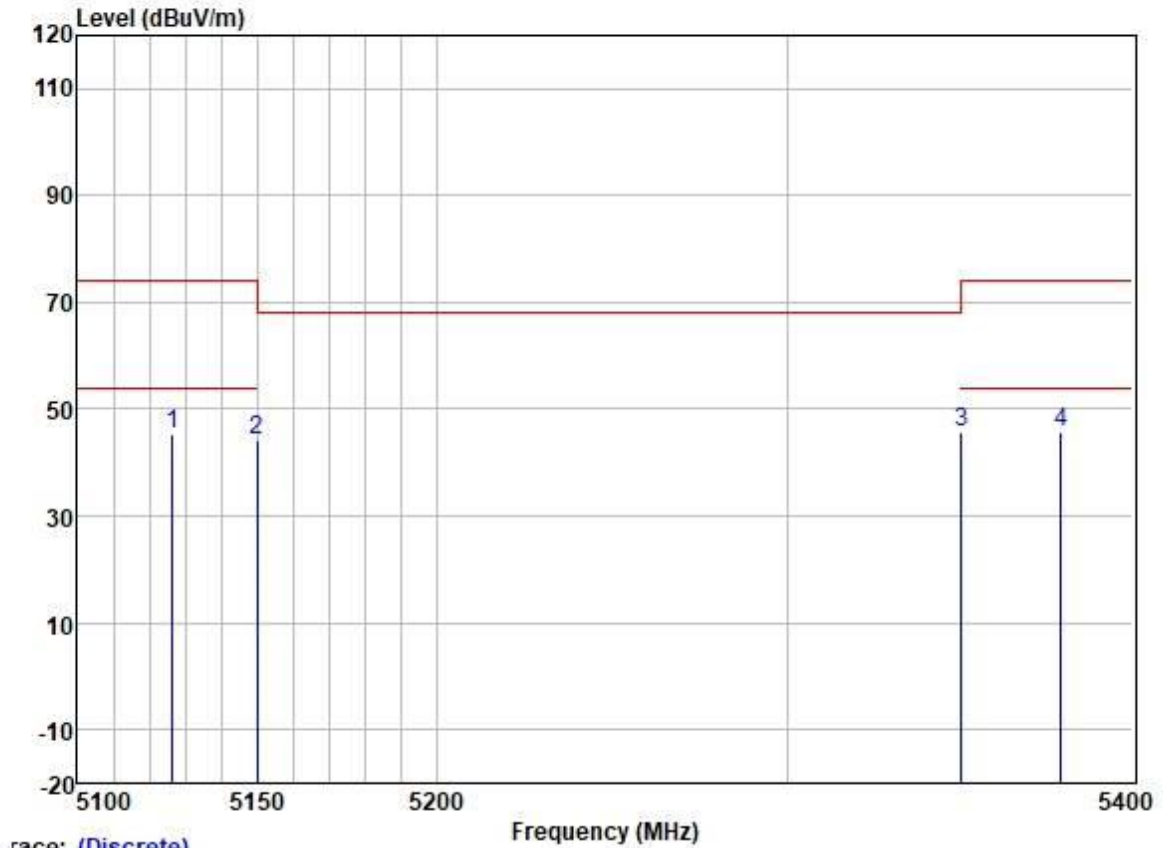
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5121.032	48.88	31.72	5.64	36.86	49.38	74.00	-24.62	VERTICAL	Peak
2	5150.000	49.11	31.72	5.62	36.86	49.59	68.20	-18.61	VERTICAL	Peak
3	5350.000	51.95	31.77	6.05	36.88	52.89	54.00	-1.11	VERTICAL	Average
4	5350.000	59.39	31.77	6.05	36.88	60.33	68.20	-7.87	VERTICAL	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



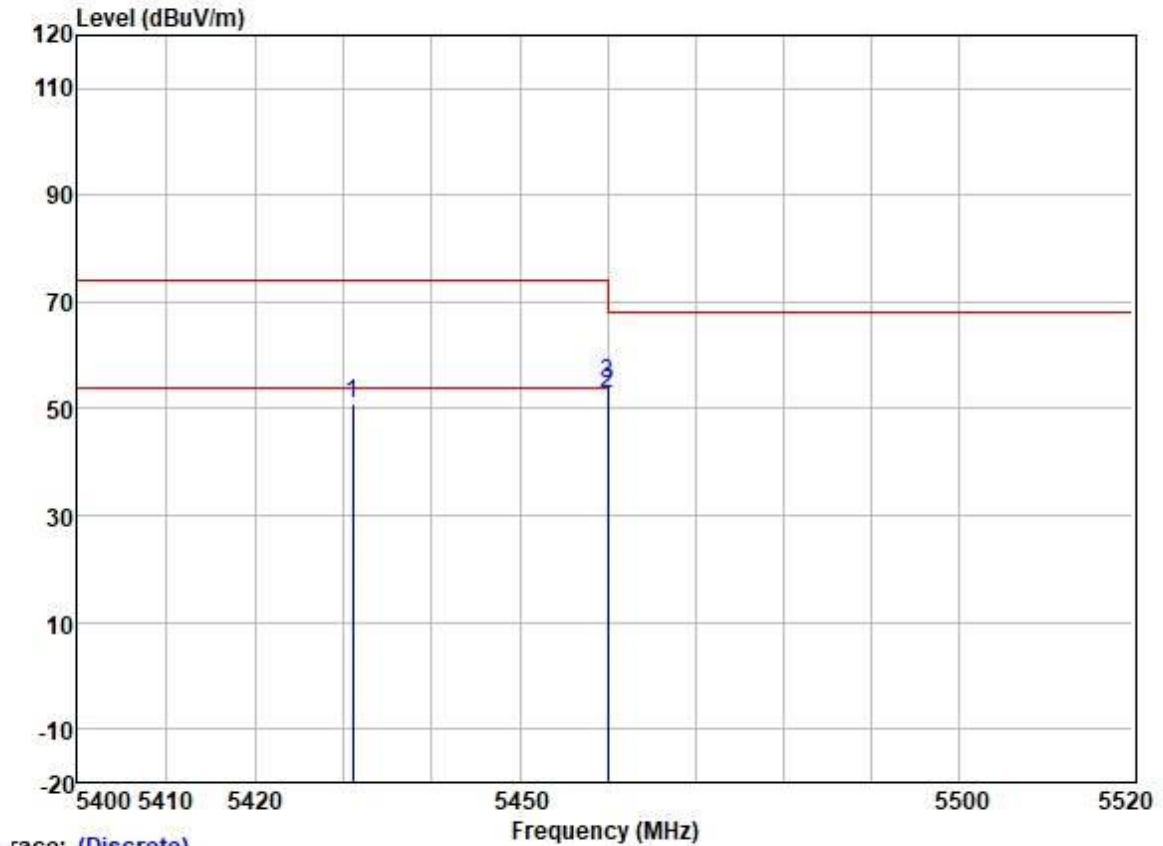
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5126.303	44.75	31.72	5.64	36.86	45.25	74.00	-28.75	HORIZONTAL	Peak
2	5150.000	43.77	31.72	5.62	36.86	44.25	68.20	-23.95	HORIZONTAL	Peak
3	5350.000	44.77	31.77	6.05	36.88	45.71	68.20	-22.49	HORIZONTAL	Peak
4	5379.052	44.82	31.78	6.02	36.88	45.74	74.00	-28.26	HORIZONTAL	Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



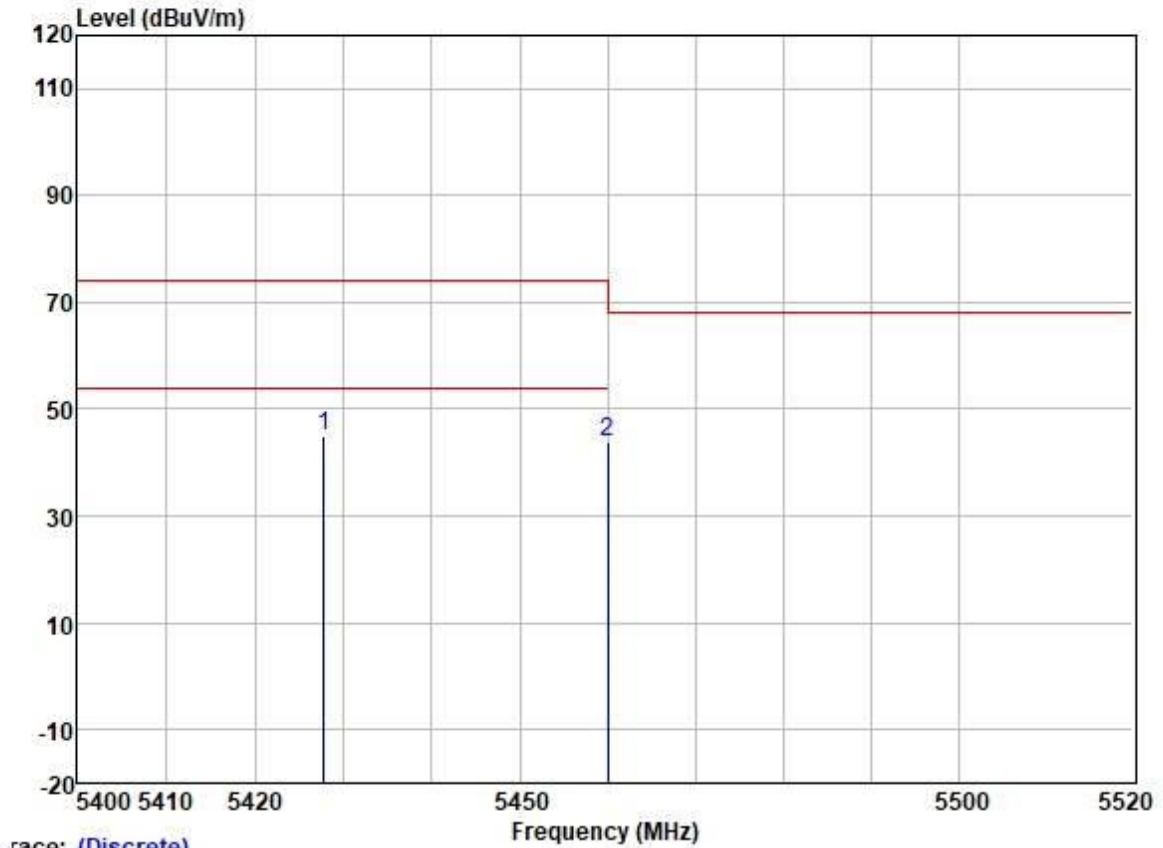
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5431.066	49.79	31.79	6.13	36.88	50.83	74.00	-23.17	VERTICAL Peak
2	5460.000	51.58	31.79	6.26	36.88	52.75	54.00	-1.25	VERTICAL Average
3	5460.000	53.44	31.79	6.26	36.88	54.61	68.20	-13.59	VERTICAL Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



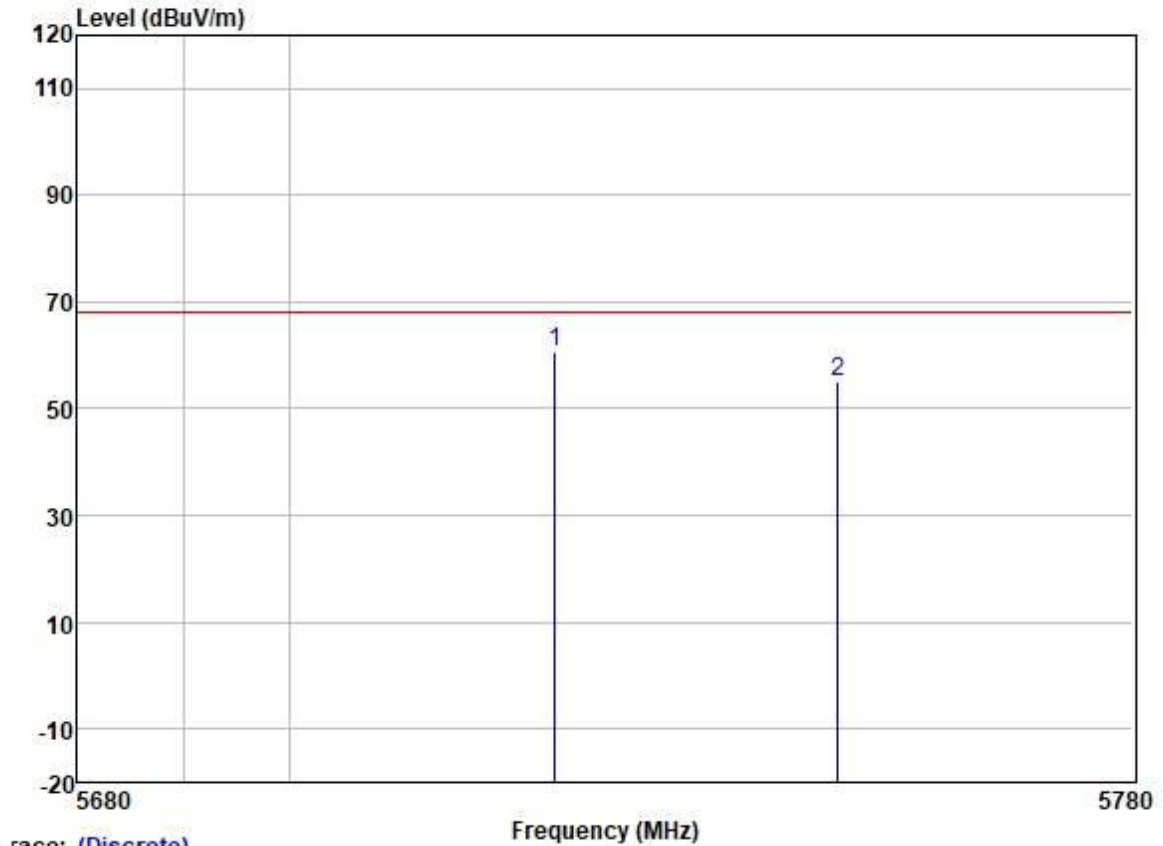
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5427.725	43.86	31.79	6.13	36.88	44.90	74.00	-29.10	HORIZONTAL Peak
2	5460.000	42.72	31.79	6.26	36.88	43.89	68.20	-24.31	HORIZONTAL Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



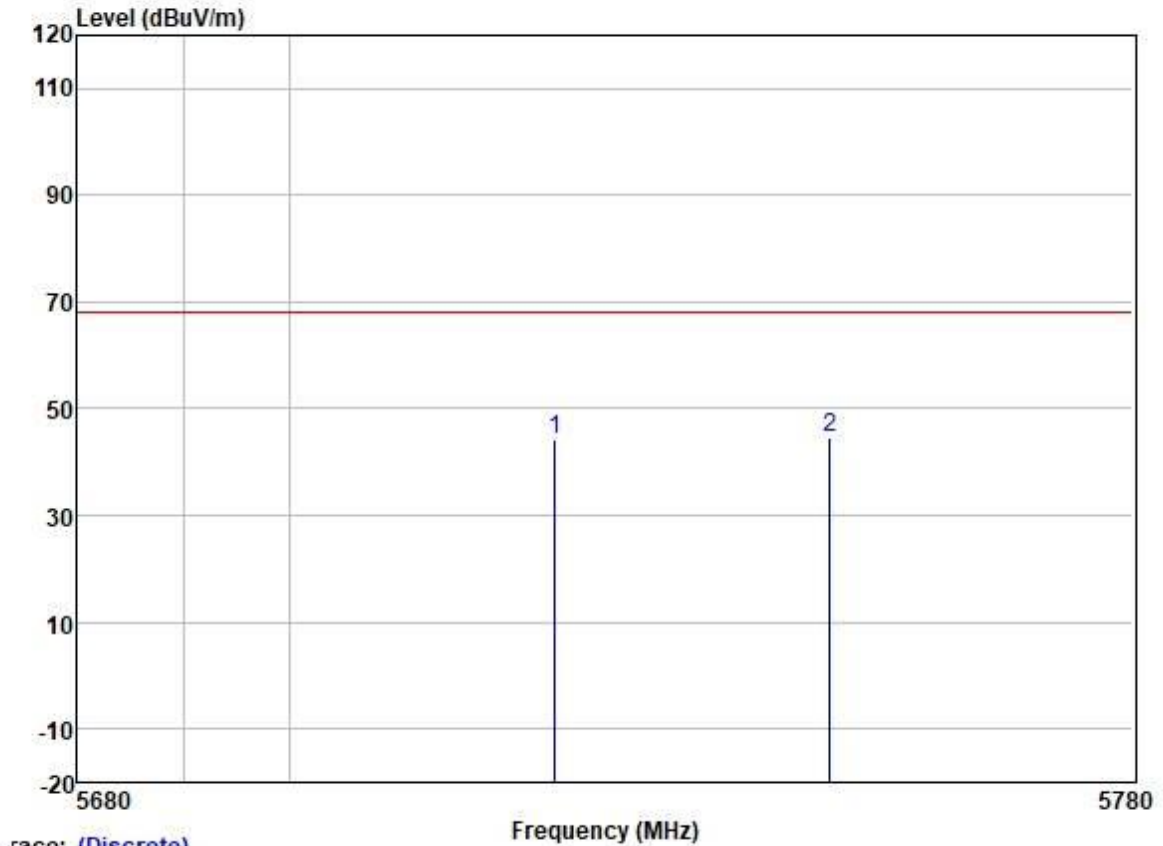
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5725.000	59.03	32.07	6.25	36.89	60.46	68.20	-7.74	VERTICAL Peak
2	5751.824	53.61	32.10	6.20	36.89	55.02	68.20	-13.18	VERTICAL Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



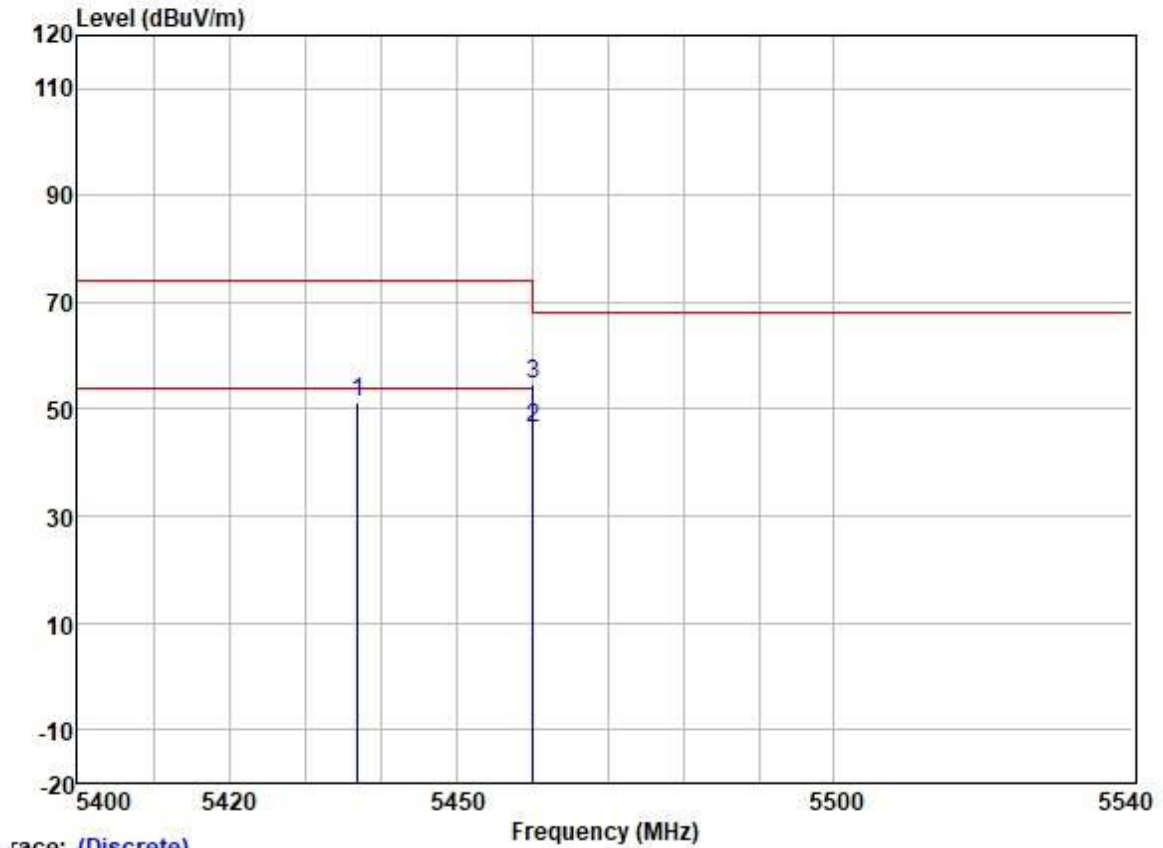
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5725.000	42.69	32.07	6.25	36.89	44.12	68.20	-24.08	HORIZONTAL	Peak
2	5751.121	43.15	32.10	6.20	36.89	44.56	68.20	-23.64	HORIZONTAL	Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



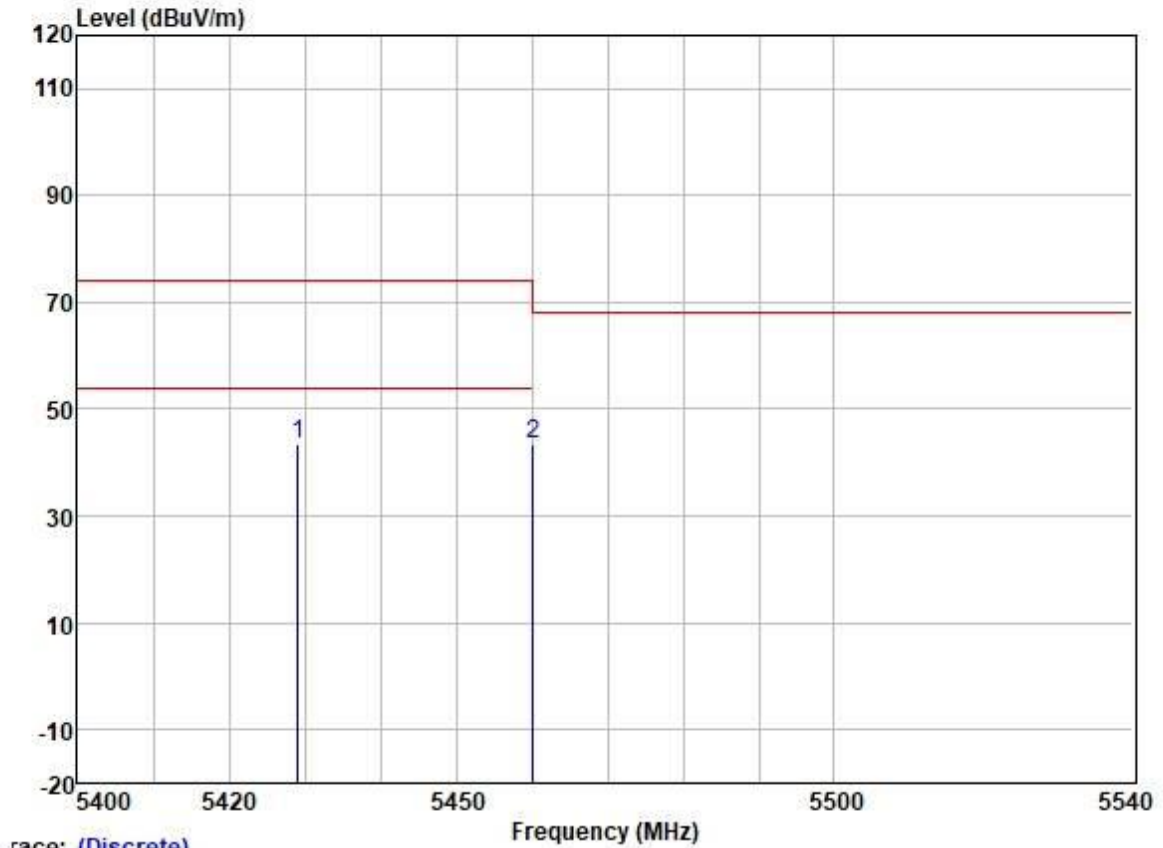
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5436.891	50.24	31.79	6.20	36.88	51.35	74.00	-22.65	VERTICAL Peak
2	5460.000	45.24	31.79	6.26	36.88	46.41	54.00	-7.59	VERTICAL Average
3	5460.000	53.68	31.79	6.26	36.88	54.85	68.20	-13.35	VERTICAL Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



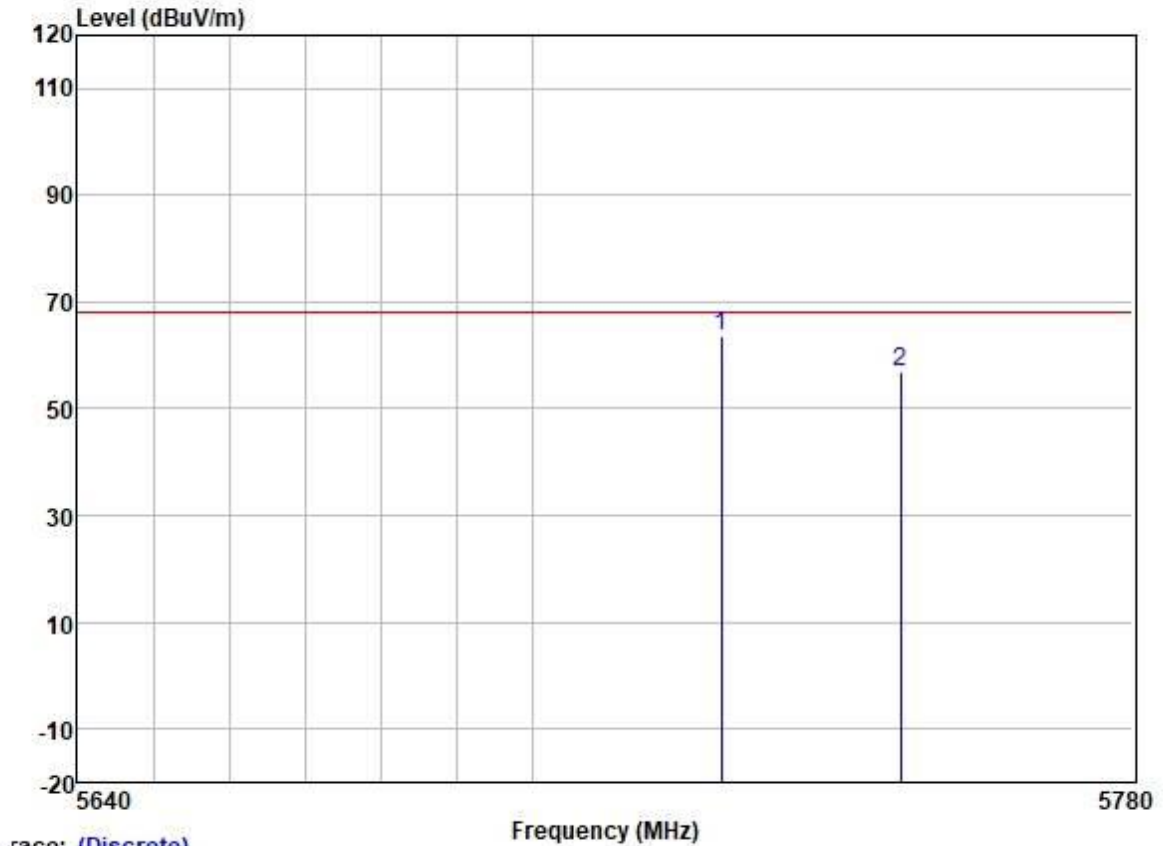
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5428.964	42.50	31.79	6.13	36.88	43.54	74.00	-30.46	HORIZONTAL Peak
2	5460.000	42.44	31.79	6.26	36.88	43.61	68.20	-24.59	HORIZONTAL Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



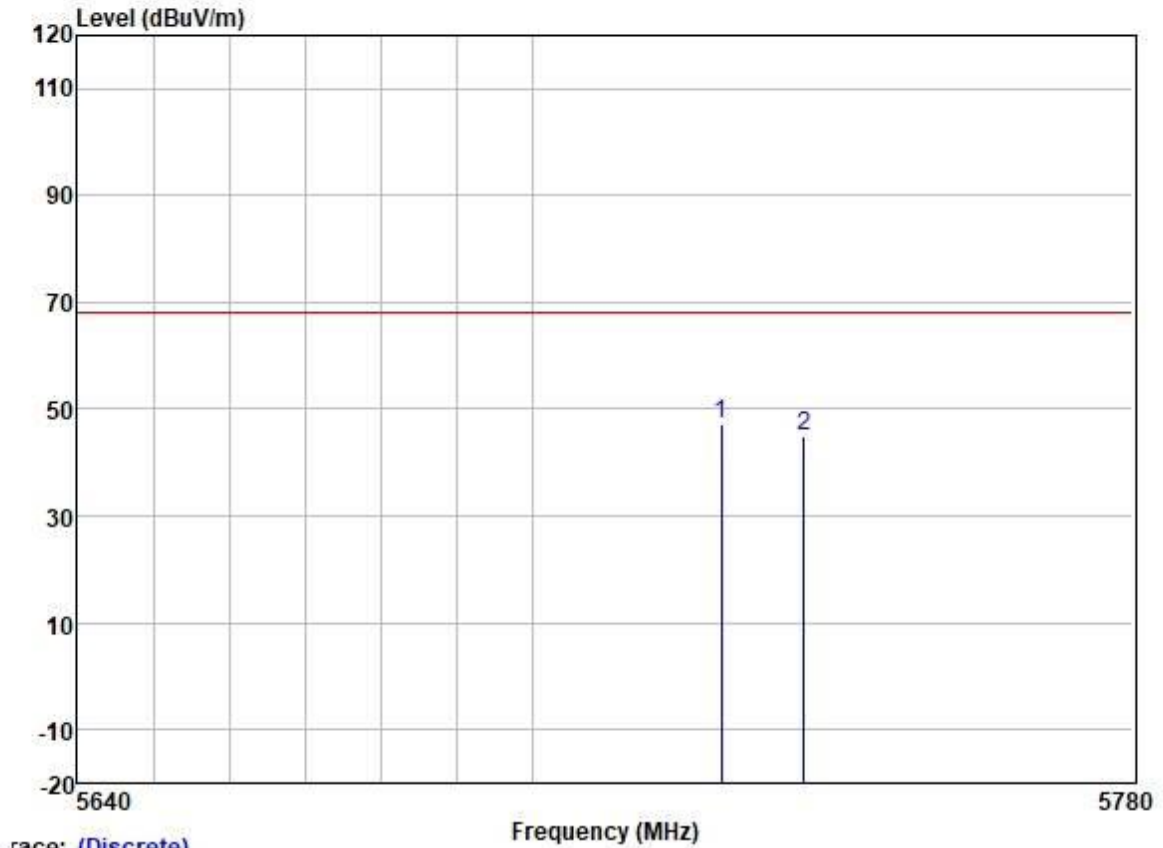
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5725.000	62.32	32.07	6.25	36.89	63.75	68.20	-4.45	VERTICAL	Peak
2	5748.905	55.52	32.10	6.20	36.89	56.93	68.20	-11.27	VERTICAL	Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



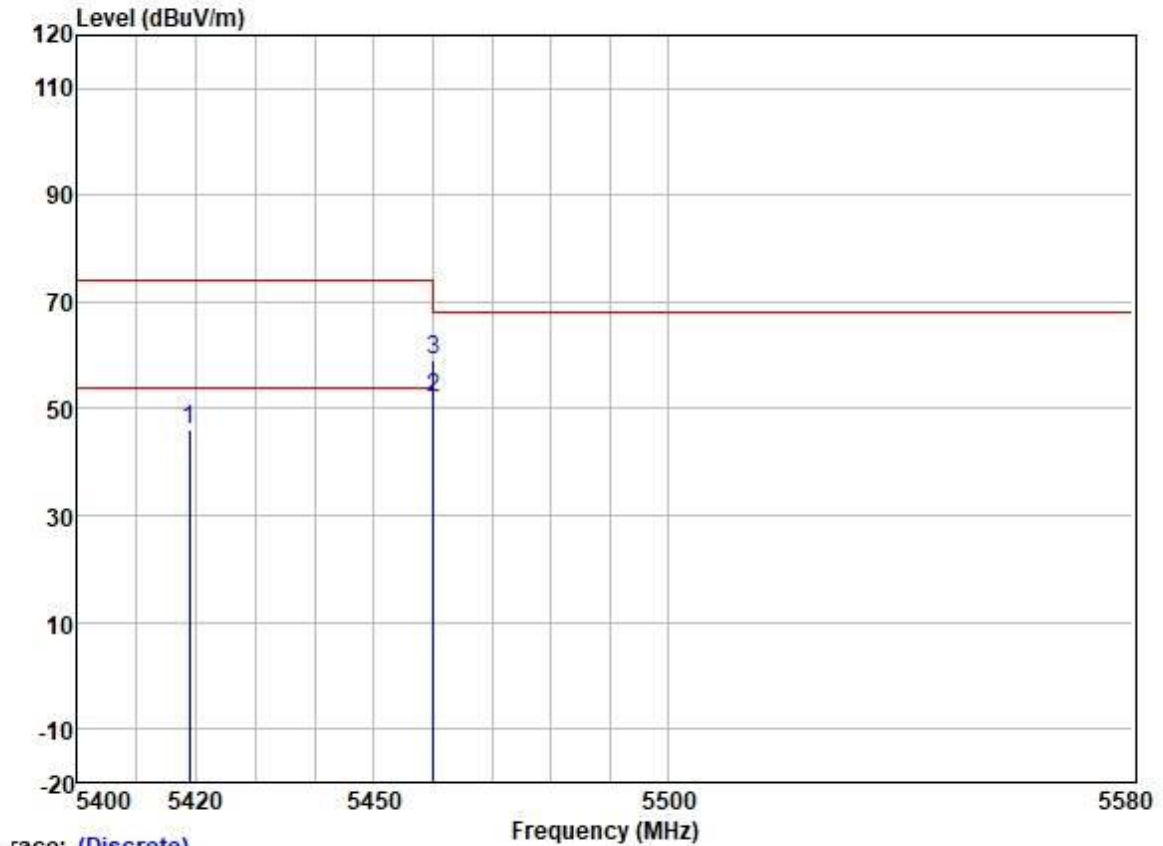
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5725.000	45.83	32.07	6.25	36.89	47.26	68.20	-20.94	HORIZONTAL Peak
2	5735.951	43.39	32.07	6.25	36.89	44.82	68.20	-23.38	HORIZONTAL Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



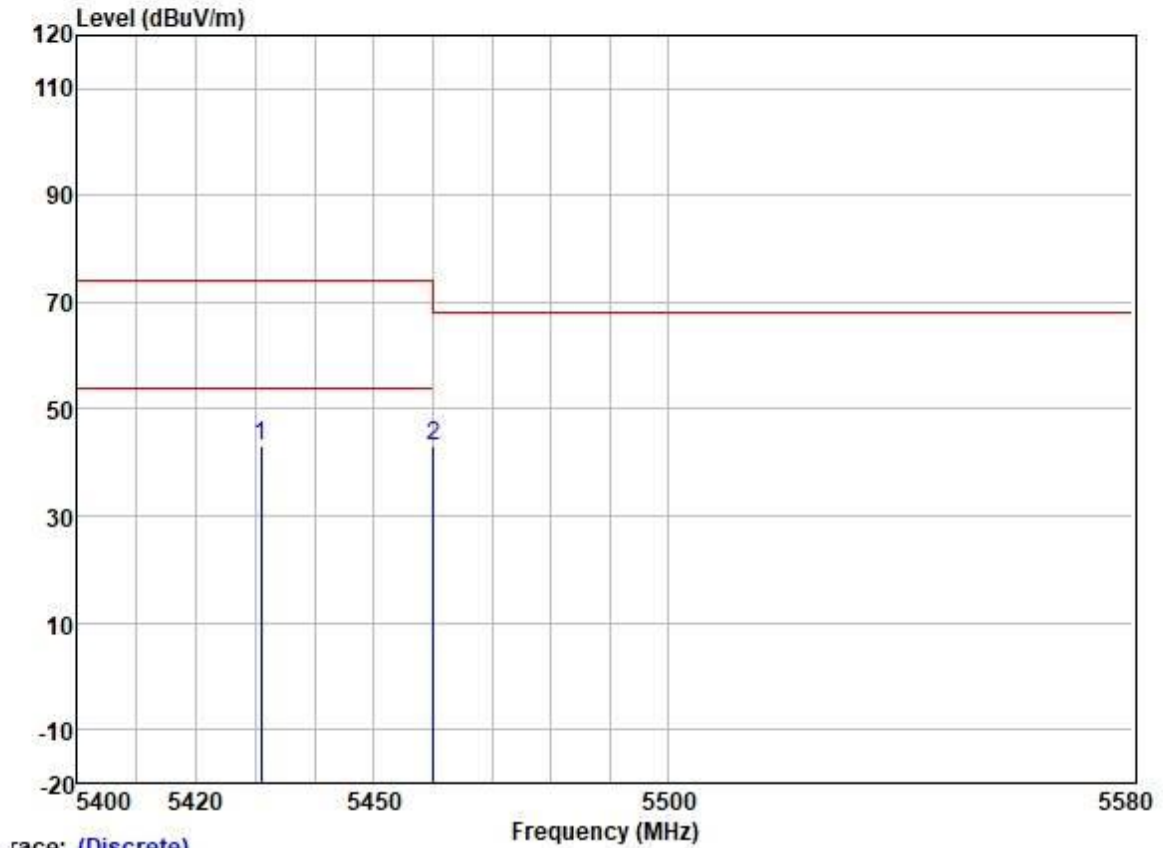
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5418.802	45.00	31.79	6.13	36.88	46.04	74.00	-27.96	VERTICAL Peak
2	5460.000	50.95	31.79	6.26	36.88	52.12	54.00	-1.88	VERTICAL Average
3	5460.000	58.07	31.79	6.26	36.88	59.24	68.20	-8.96	VERTICAL Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

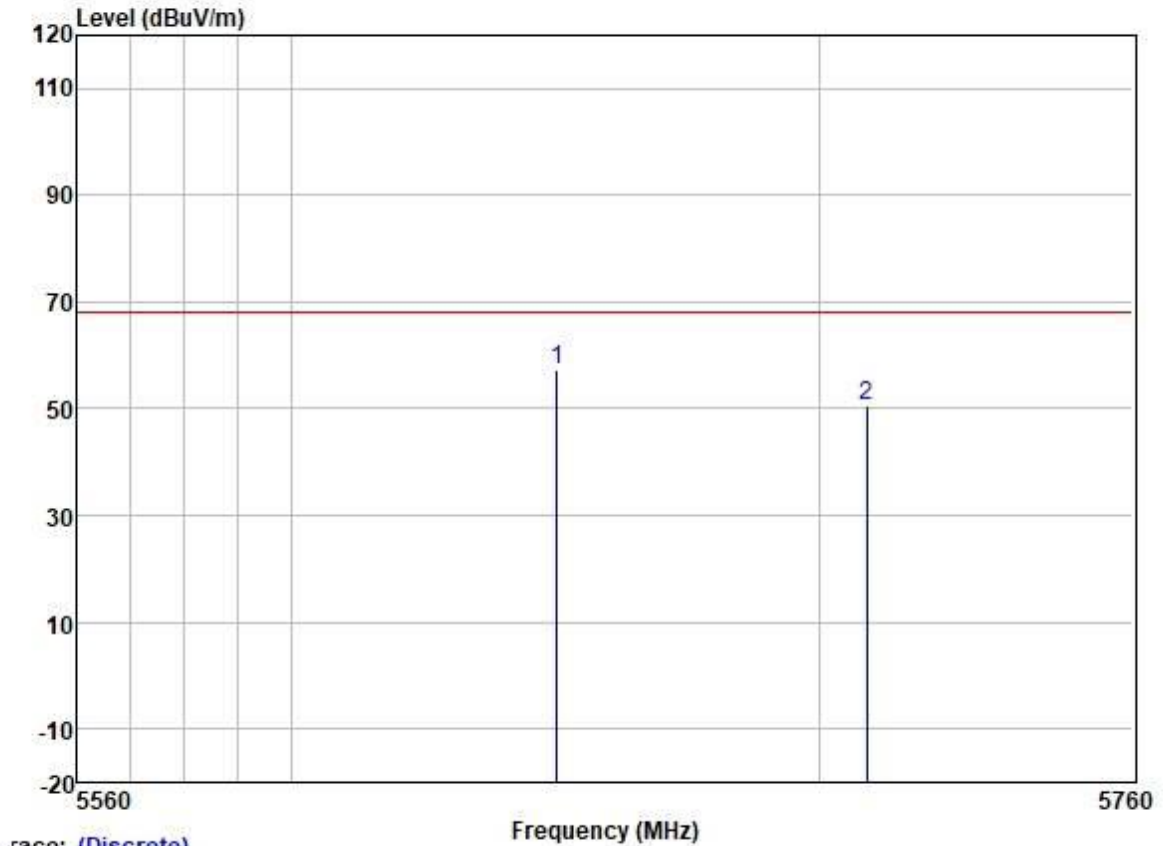
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5430.897	42.04	31.79	6.13	36.88	43.08	74.00	-30.92	HORIZONTAL Peak
2	5460.000	41.90	31.79	6.26	36.88	43.07	68.20	-25.13	HORIZONTAL Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

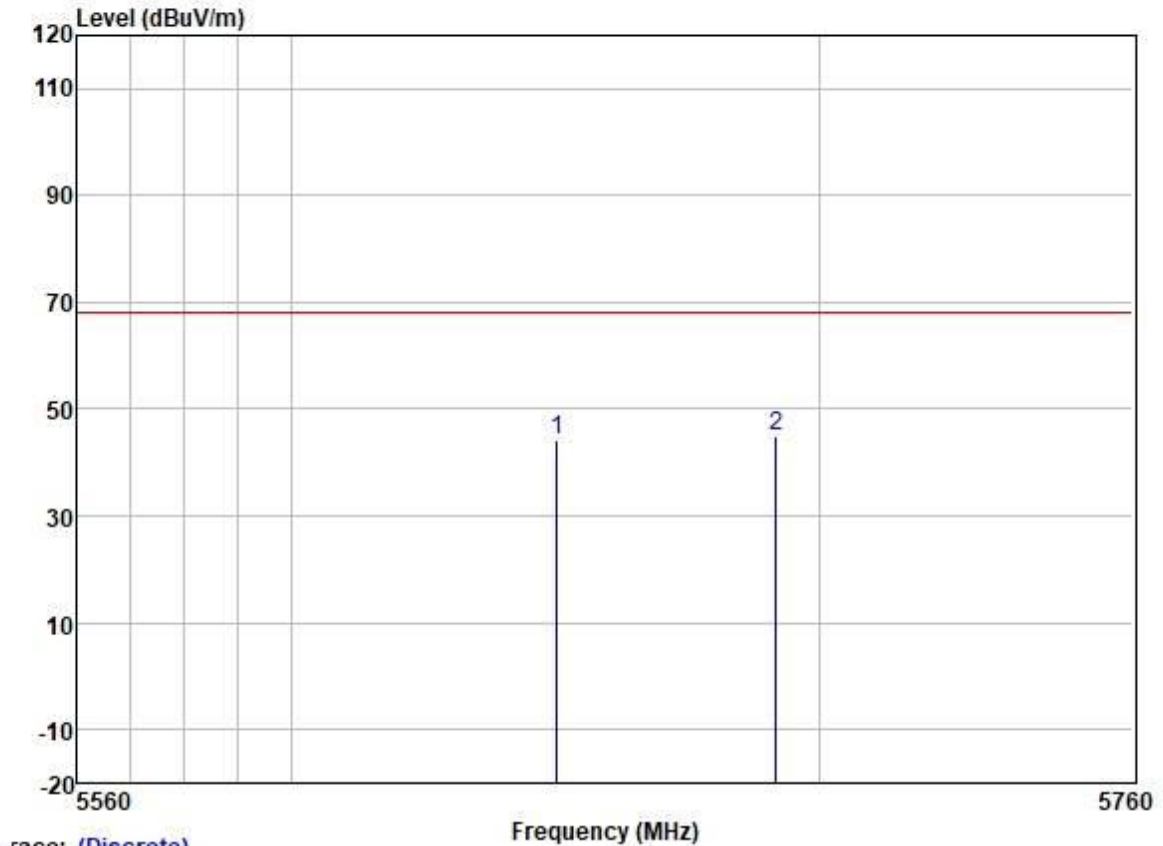


Line	Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Pol/Phase	Remark
1	5650.000	55.80	31.95	6.35	36.89	57.21	68.20	-10.99	VERTICAL	Peak
2	5708.932	49.13	32.04	6.33	36.89	50.61	68.20	-17.59	VERTICAL	Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



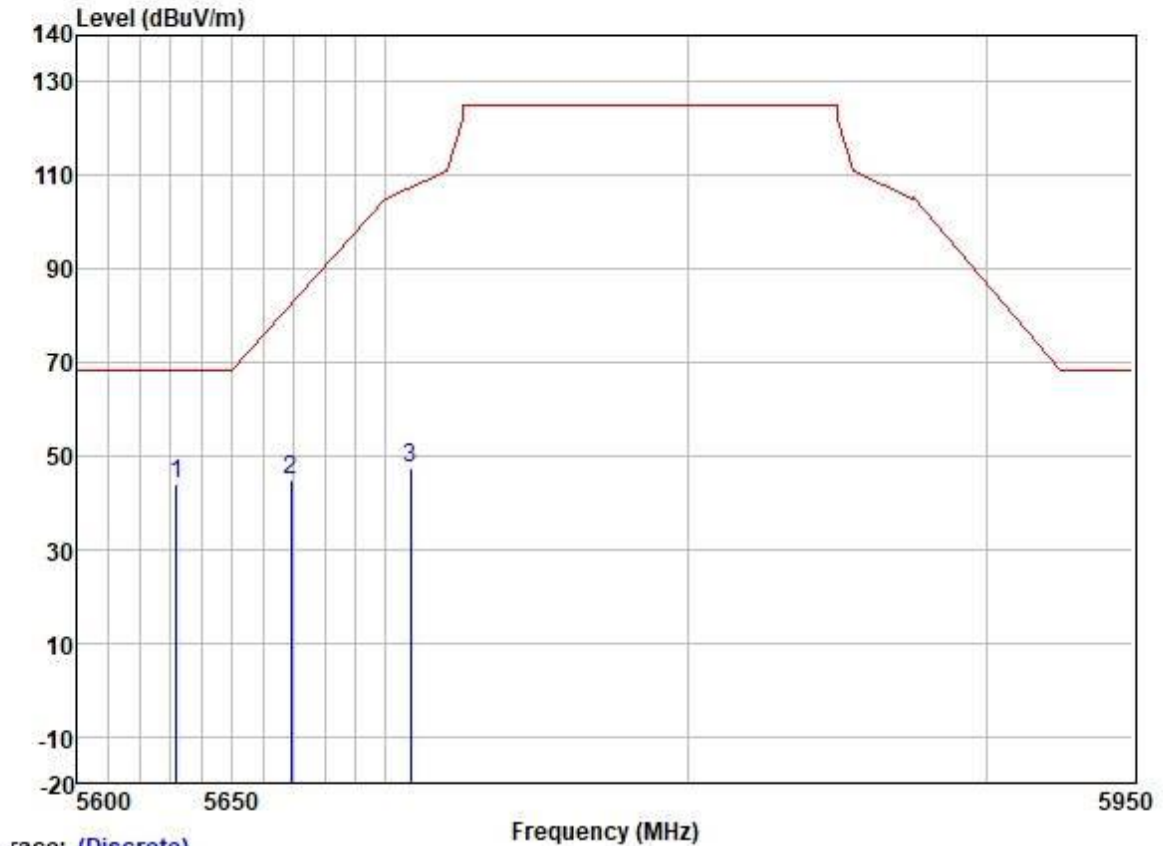
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5650.000	42.90	31.95	6.35	36.89	44.31	68.20	-23.89	HORIZONTAL	Peak
2	5691.608	43.50	32.01	6.40	36.89	45.02	68.20	-23.18	HORIZONTAL	Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



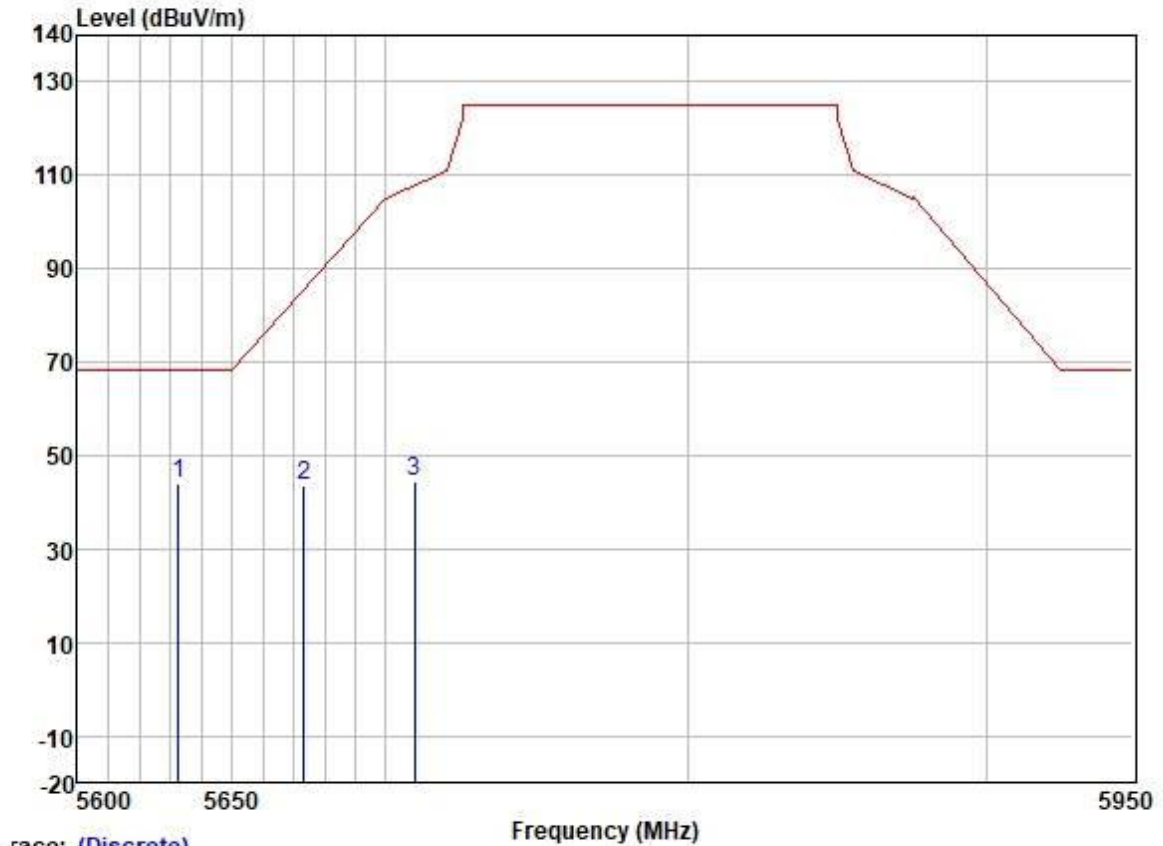
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	5632.004	42.59	31.93	6.33	36.89	43.96	68.20	-24.24 VERTICAL Peak
2	5669.000	43.60	31.97	6.37	36.89	45.05	82.30	-37.25 VERTICAL Peak
3	5708.315	45.94	32.04	6.33	36.89	47.42	107.53	-60.11 VERTICAL Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	5632.687	42.66	31.93	6.33	36.89	44.03	68.20	-24.17 HORIZONTAL Peak
2	5673.470	42.26	31.99	6.38	36.89	43.74	85.61	-41.87 HORIZONTAL Peak
3	5709.354	42.95	32.04	6.33	36.89	44.43	107.82	-63.39 HORIZONTAL Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



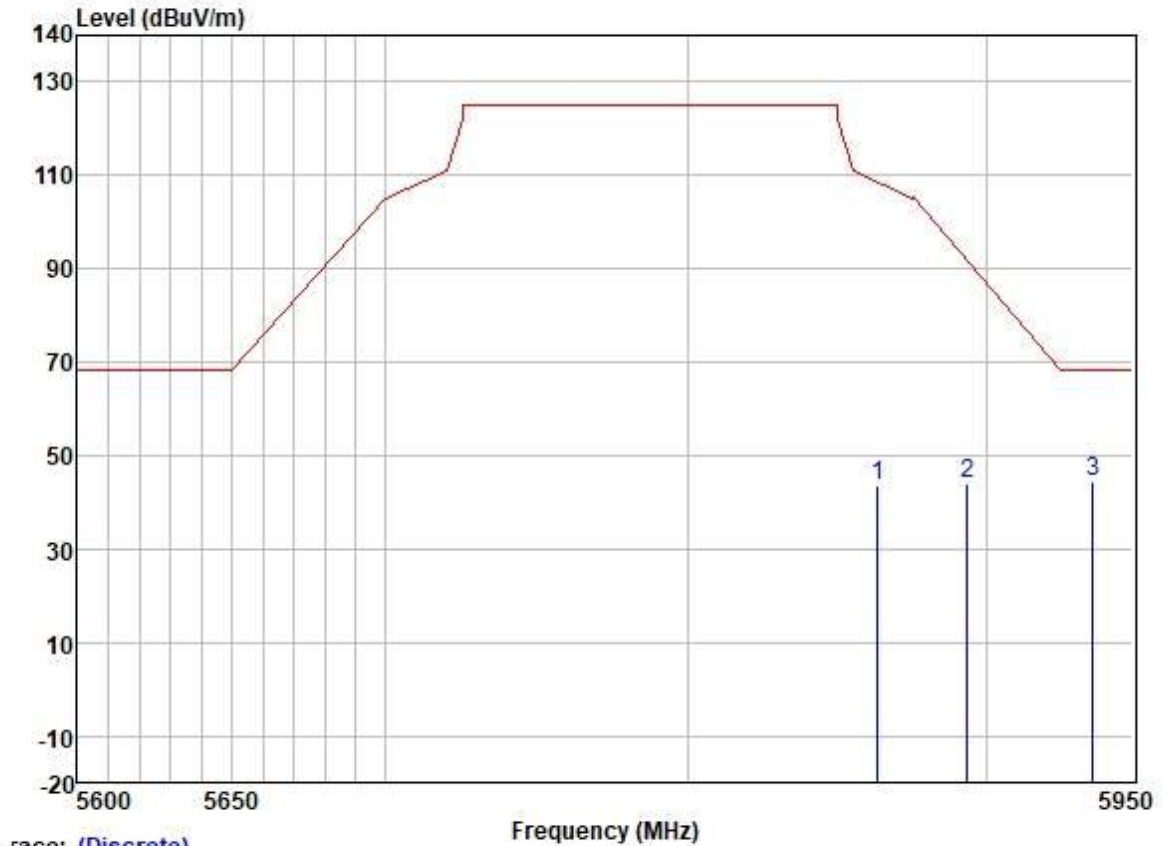
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	5864.766	44.85	32.27	5.96	36.90	46.18	108.06	-61.88 VERTICAL Peak
2	5893.994	43.18	32.31	5.90	36.90	44.49	91.15	-46.66 VERTICAL Peak
3	5941.349	43.88	32.36	6.05	36.90	45.39	68.20	-22.81 VERTICAL Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



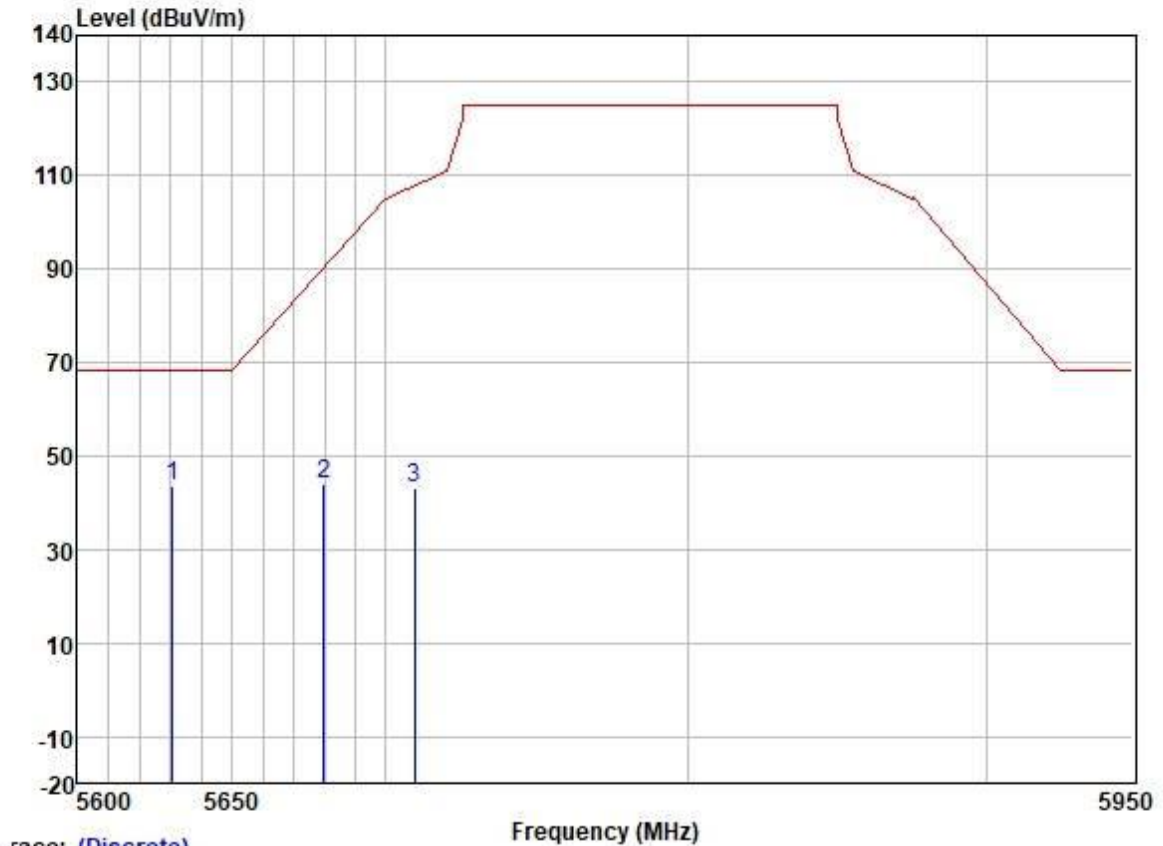
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5863.344	42.45	32.27	5.96	36.90	43.78	108.46	-64.68	HORIZONTAL Peak
2	5893.636	42.65	32.31	5.90	36.90	43.96	91.42	-47.46	HORIZONTAL Peak
3	5936.309	42.86	32.34	6.00	36.90	44.30	68.20	-23.90	HORIZONTAL Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



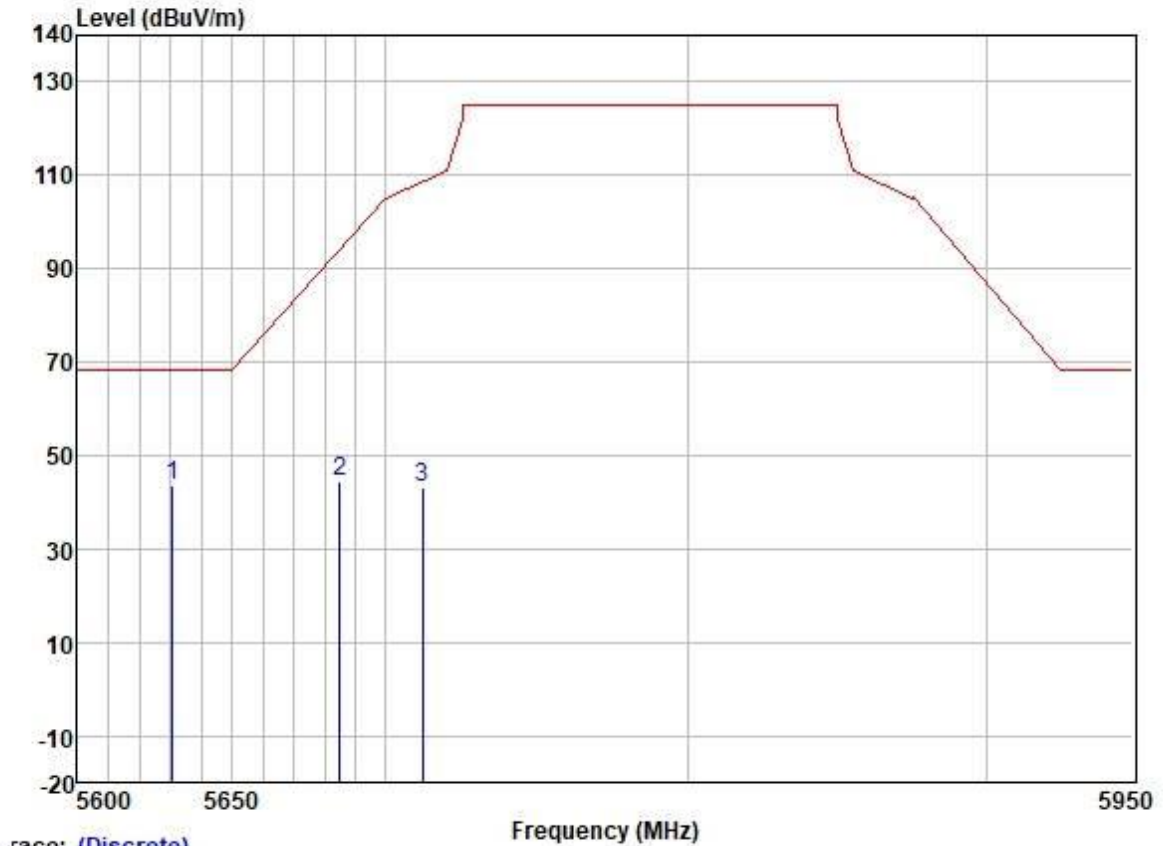
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	5630.638	42.05	31.93	6.33	36.89	43.42	68.20	-24.78 VERTICAL Peak
2	5679.665	42.60	31.99	6.38	36.89	44.08	90.19	-46.11 VERTICAL Peak
3	5709.354	41.65	32.04	6.33	36.89	43.13	107.82	-64.69 VERTICAL Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



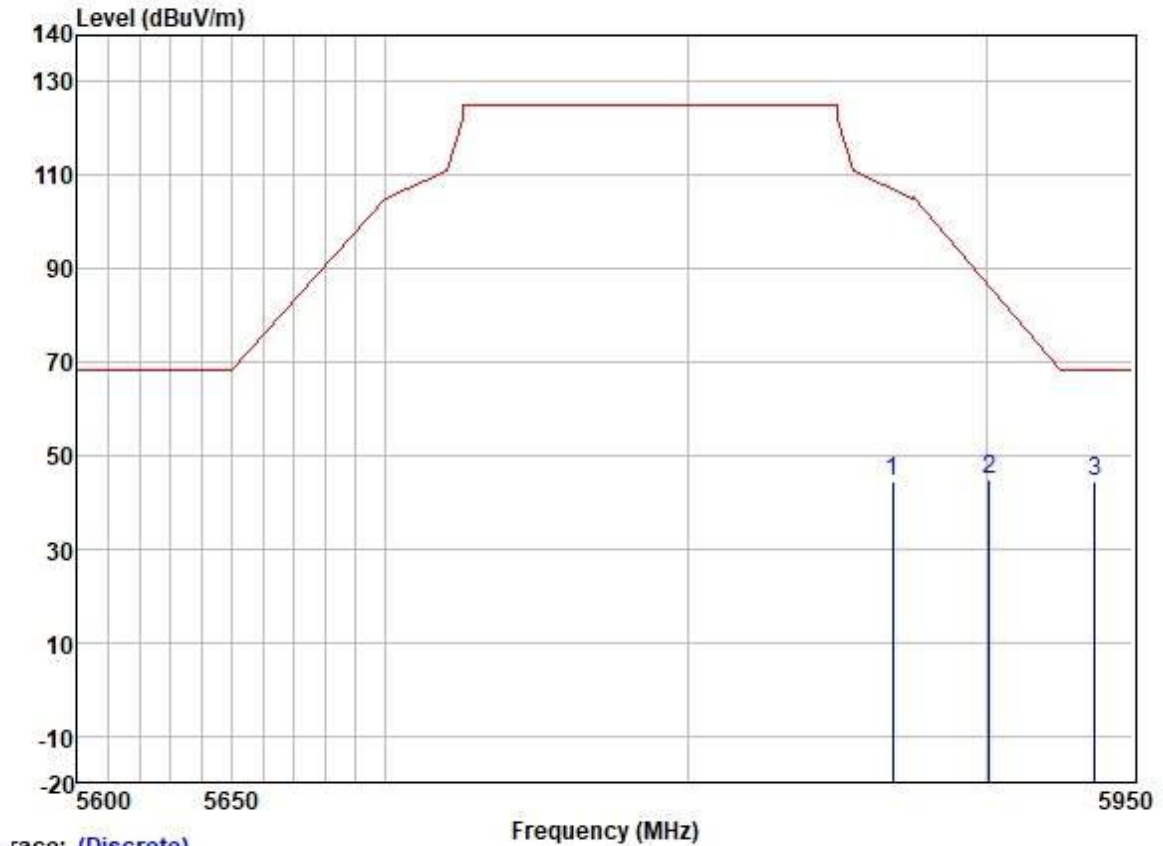
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5630.638	42.20	31.93	6.33	36.89	43.57	68.20	-24.63	HORIZONTAL	Peak
2	5685.176	42.86	31.99	6.38	36.89	44.34	94.26	-49.92	HORIZONTAL	Peak
3	5712.124	41.70	32.04	6.33	36.89	43.18	108.60	-65.42	HORIZONTAL	Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



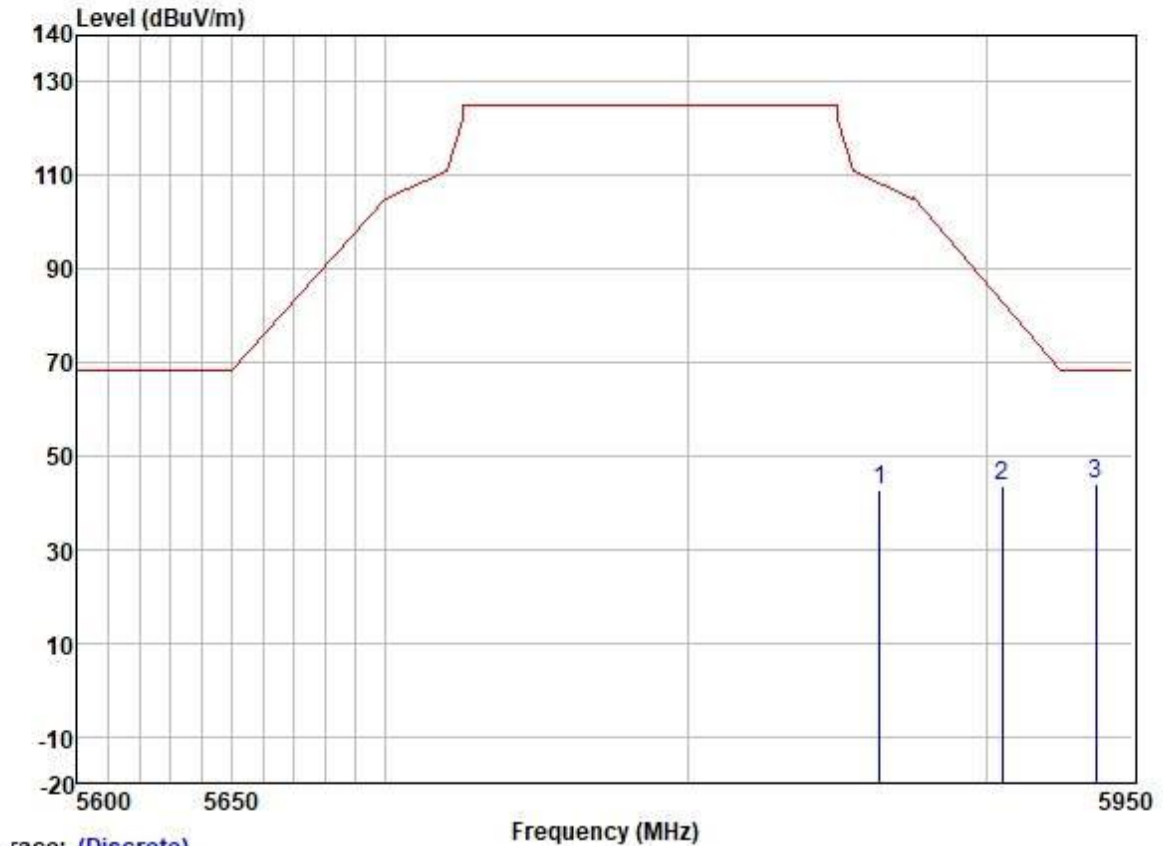
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	5868.322	43.23	32.27	5.96	36.90	44.56	107.07	-62.51 VERTICAL Peak
2	5901.144	43.36	32.31	5.90	36.90	44.67	85.85	-41.18 VERTICAL Peak
3	5937.028	42.79	32.34	6.00	36.90	44.23	68.20	-23.97 VERTICAL Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



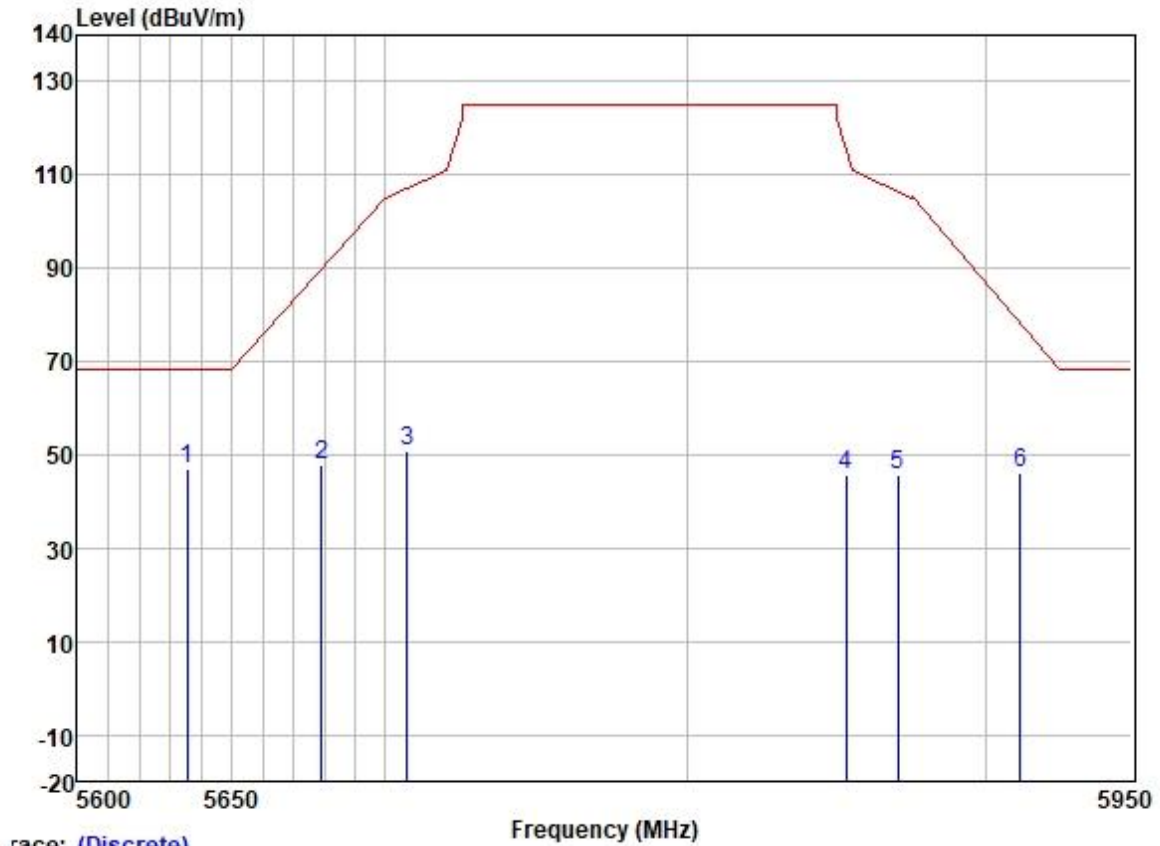
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	5864.055	41.56	32.27	5.96	36.90	42.89	108.26	-65.37 HORIZONTAL Peak
2	5905.439	42.21	32.31	5.90	36.90	43.52	82.67	-39.15 HORIZONTAL Peak
3	5937.388	42.69	32.34	6.00	36.90	44.13	68.20	-24.07 HORIZONTAL Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



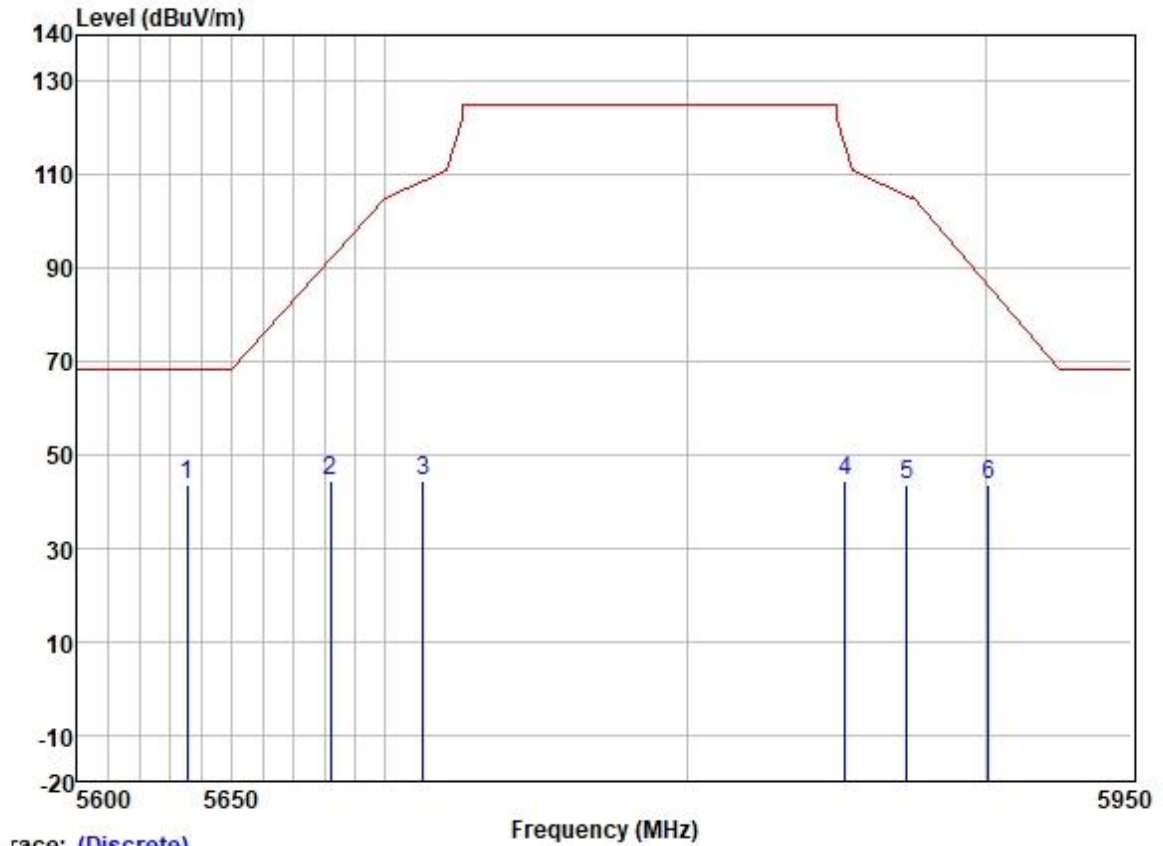
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5635.419	45.71	31.93	6.33	36.89	47.08	68.20	-21.12	VERTICAL Peak
2	5679.320	46.38	31.99	6.38	36.89	47.86	89.94	-42.08	VERTICAL Peak
3	5707.277	49.55	32.04	6.33	36.89	51.03	107.24	-56.21	VERTICAL Peak
4	5853.044	44.46	32.25	5.90	36.90	45.71	115.26	-69.55	VERTICAL Peak
5	5870.458	44.64	32.27	5.91	36.90	45.92	106.47	-60.55	VERTICAL Peak
6	5911.887	44.77	32.33	5.94	36.90	46.14	77.89	-31.75	VERTICAL Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5635.419	42.04	31.93	6.33	36.89	43.41	68.20	-24.79	HORIZONTAL Peak
2	5682.075	42.80	31.99	6.38	36.89	44.28	91.97	-47.69	HORIZONTAL Peak
3	5712.470	42.99	32.04	6.33	36.89	44.47	108.69	-64.22	HORIZONTAL Peak
4	5852.689	43.24	32.25	5.90	36.90	44.49	116.07	-71.58	HORIZONTAL Peak
5	5873.305	42.13	32.29	5.92	36.90	43.44	105.67	-62.23	HORIZONTAL Peak
6	5901.144	42.08	32.31	5.93	36.90	43.42	85.85	-42.43	HORIZONTAL Peak



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7.10 Radiated Emissions (above 1GHz)

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

Test Method: KDB 789033 D02 II G

Limit:

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

* (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 61.5 % RH Atmospheric Pressure: 1003 mbar



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7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

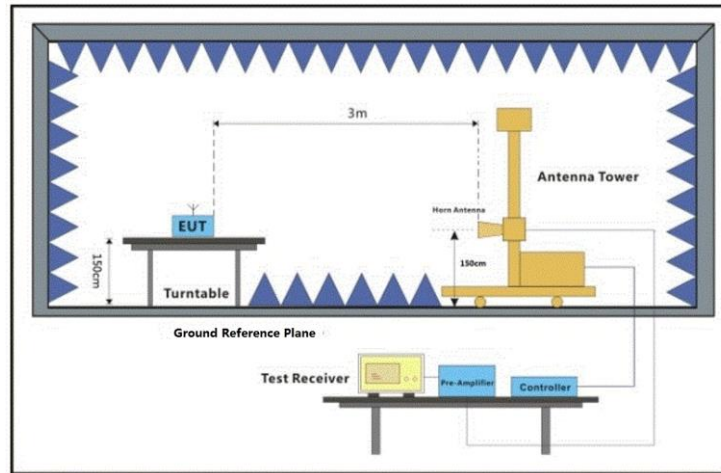


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7.10.3 Test Setup Diagram



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7.10.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark1:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 40GHz, the disturbance above 18GHz 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.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark2:

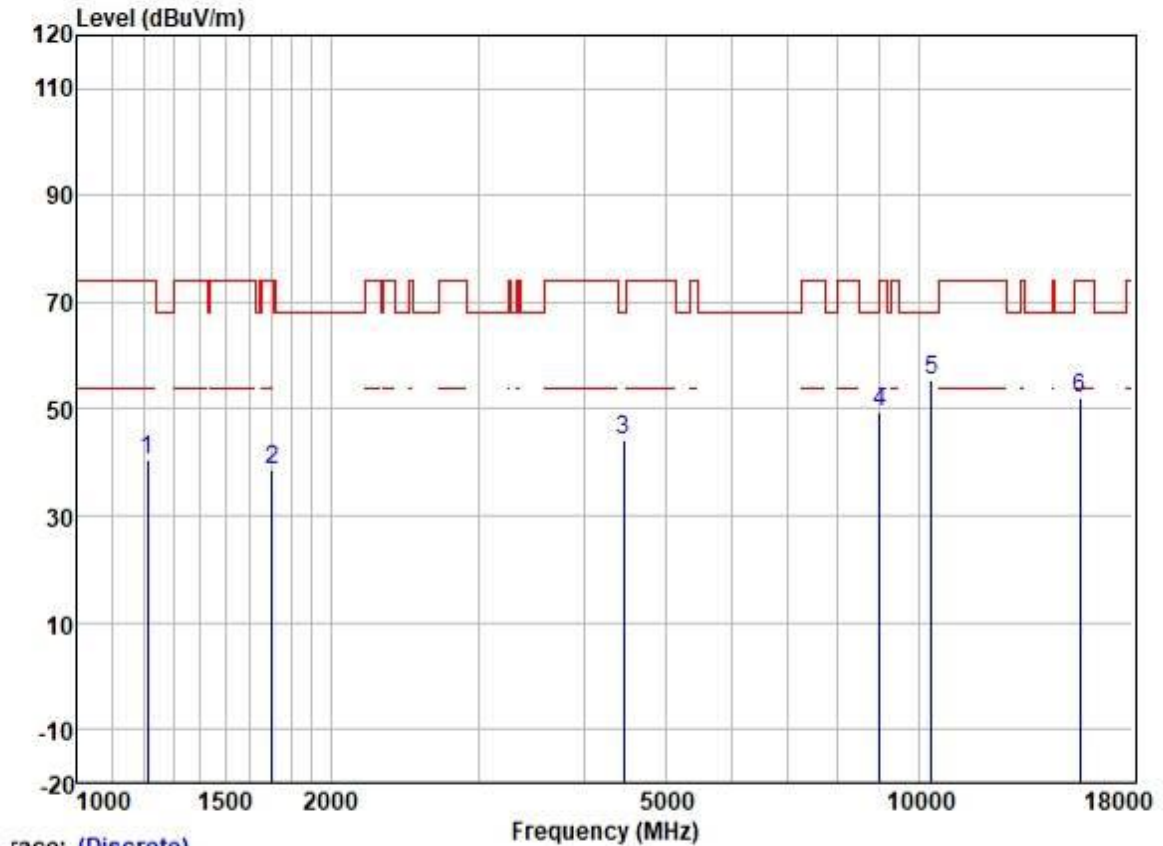
1. The disturbance above 18GHz was very low, and the below harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2. Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the worst case is MIMO mode.
3. Pretest the EUT in 802.11a/ n(20)/ n(40)/ ac (20)/ ac (40)/ ac(80) find the worst case are 802.11a /n(40)/ ac(80), only record the worst case test data 802.11a in this report.



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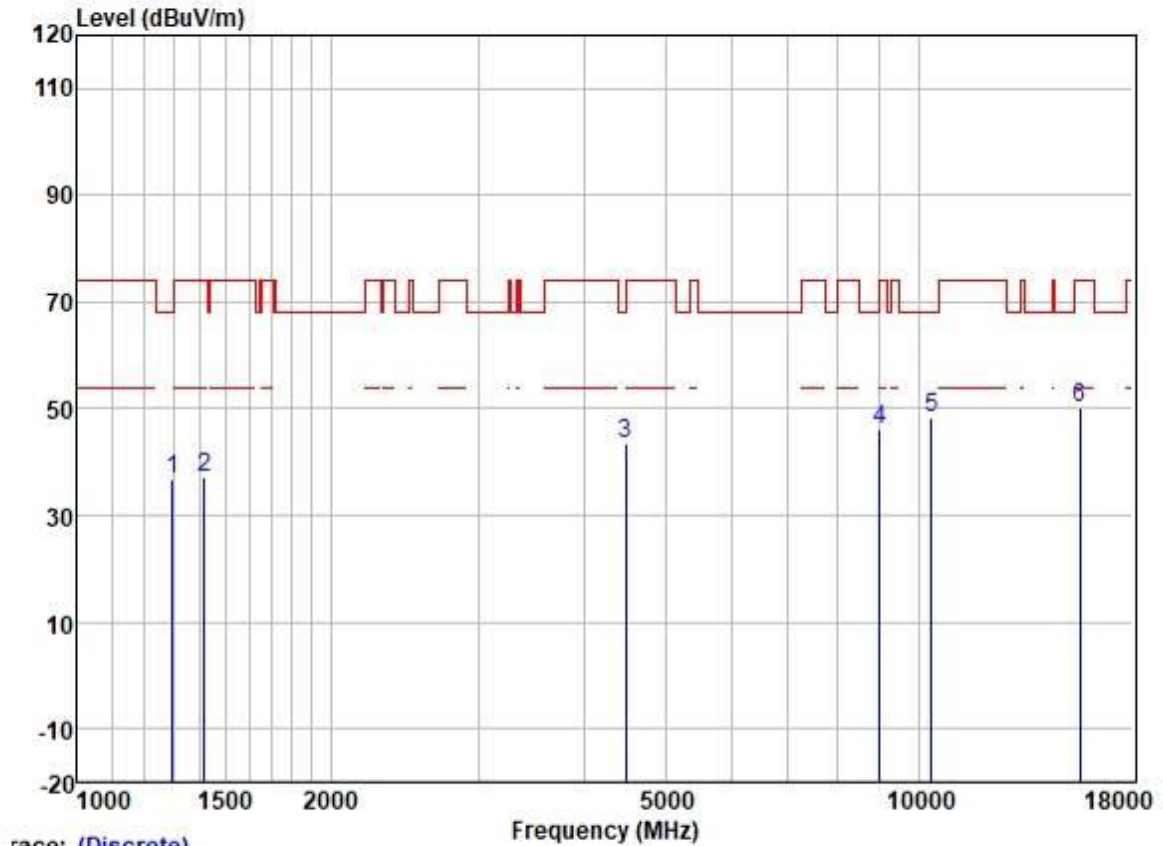
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1210.174	51.88	24.74	2.33	38.39	40.56	74.00 -33.44	VERTICAL	peak
2	1702.042	48.08	25.72	2.80	37.89	38.71	74.00 -35.29	VERTICAL	peak
3	4456.315	45.49	30.75	4.88	36.81	44.31	68.20 -23.89	VERTICAL	peak
4	8995.123	42.02	37.40	7.56	37.50	49.48	68.20 -18.72	VERTICAL	peak
5	10360.000	46.31	39.28	7.29	37.37	55.51	68.20 -12.69	VERTICAL	peak
6	15540.000	38.43	39.05	9.88	35.39	51.97	74.00 -22.03	VERTICAL	peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



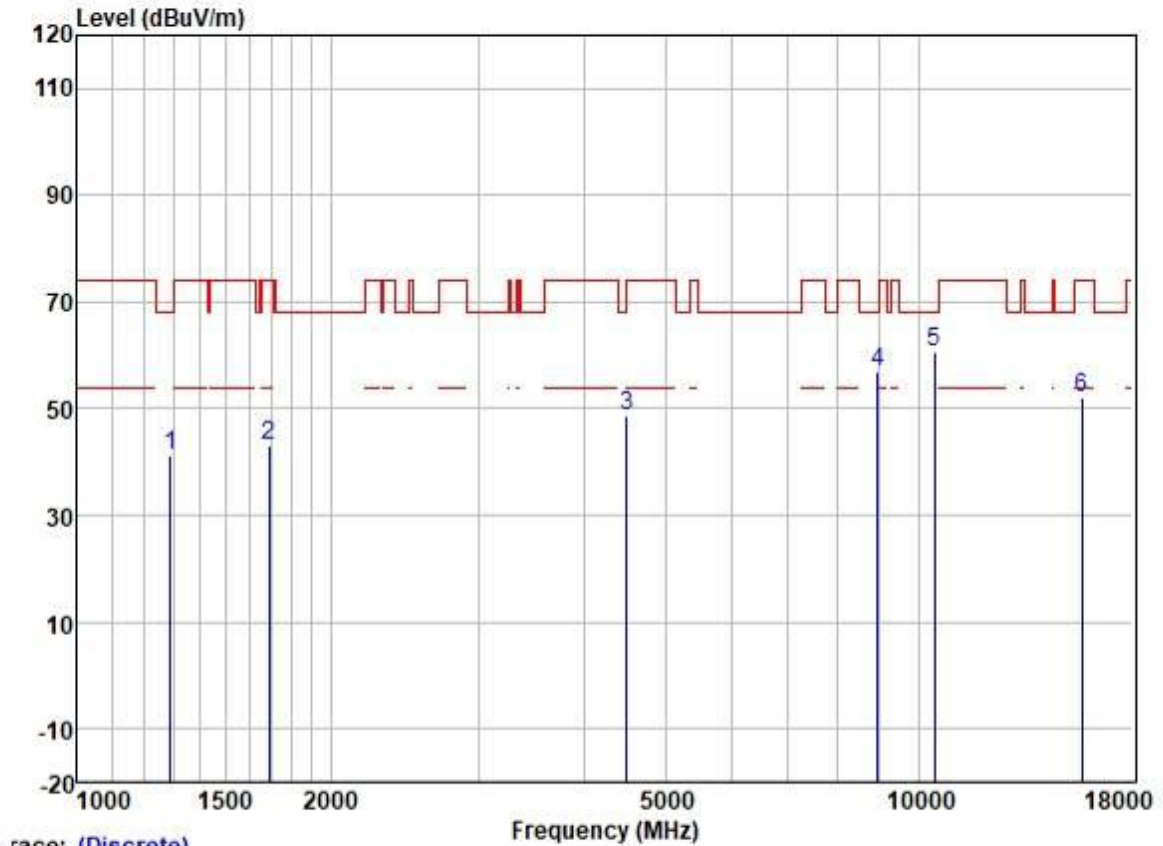
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1297.103	47.30	25.19	2.58	38.31	36.76	68.20	-31.44	HORIZONTAL peak
2	1414.597	47.20	25.41	2.63	38.20	37.04	74.00	-36.96	HORIZONTAL peak
3	4482.150	44.51	30.78	4.99	36.81	43.47	68.20	-24.73	HORIZONTAL peak
4	8995.123	38.72	37.40	7.56	37.50	46.18	68.20	-22.02	HORIZONTAL peak
5	10360.000	39.00	39.28	7.29	37.37	48.20	68.20	-20.00	HORIZONTAL peak
6	15540.000	36.72	39.05	9.88	35.39	50.26	74.00	-23.74	HORIZONTAL peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



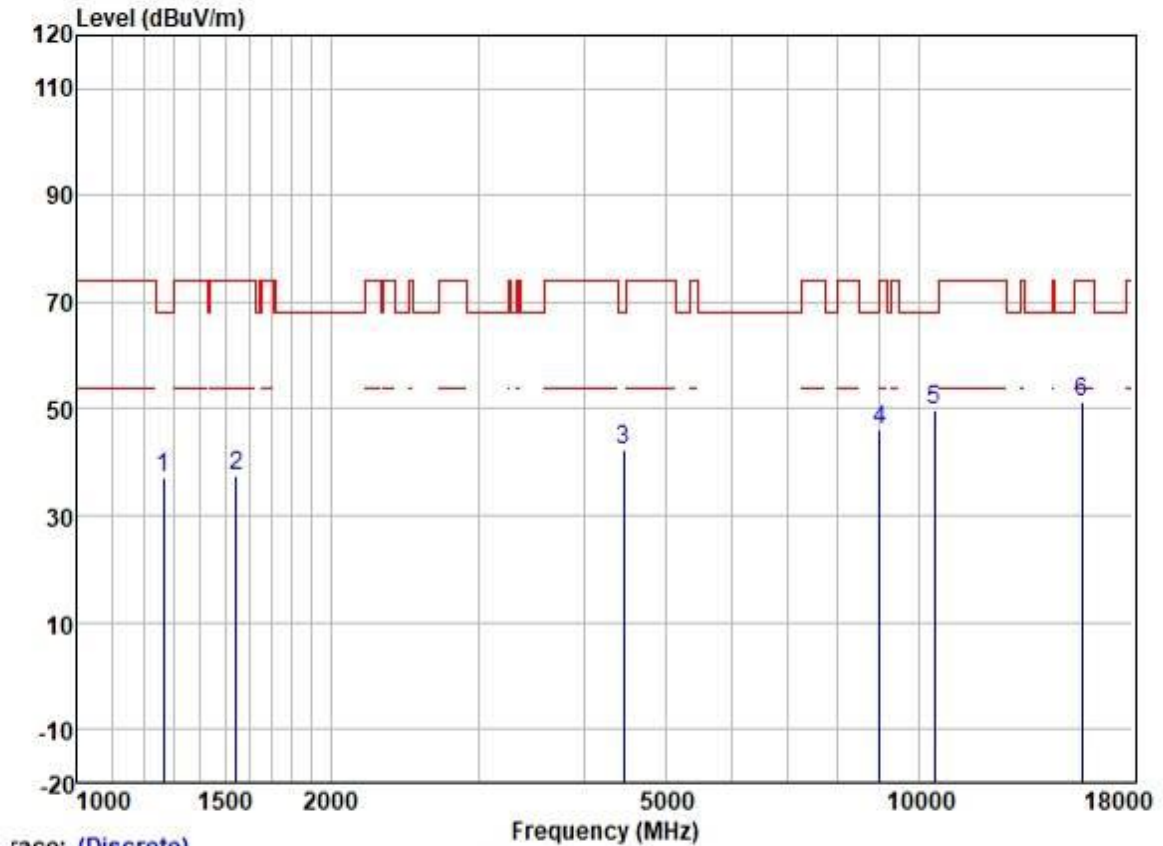
Trace: (Discrete)

	Read Freq	Antenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	51.67	25.17	2.55	38.31	41.08	68.20	-27.12	VERTICAL	peak
2	1692.231	52.41	25.70	2.80	37.89	43.02	74.00	-30.98	VERTICAL	peak
3	4495.125	49.53	30.80	5.05	36.82	48.56	68.20	-19.64	VERTICAL	peak
4	8943.274	49.40	37.38	7.49	37.51	56.76	68.20	-11.44	VERTICAL	peak
5	10440.000	51.04	39.42	7.37	37.36	60.47	68.20	-7.73	VERTICAL	peak
6	15660.000	38.64	38.86	9.87	35.39	51.98	74.00	-22.02	VERTICAL	peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



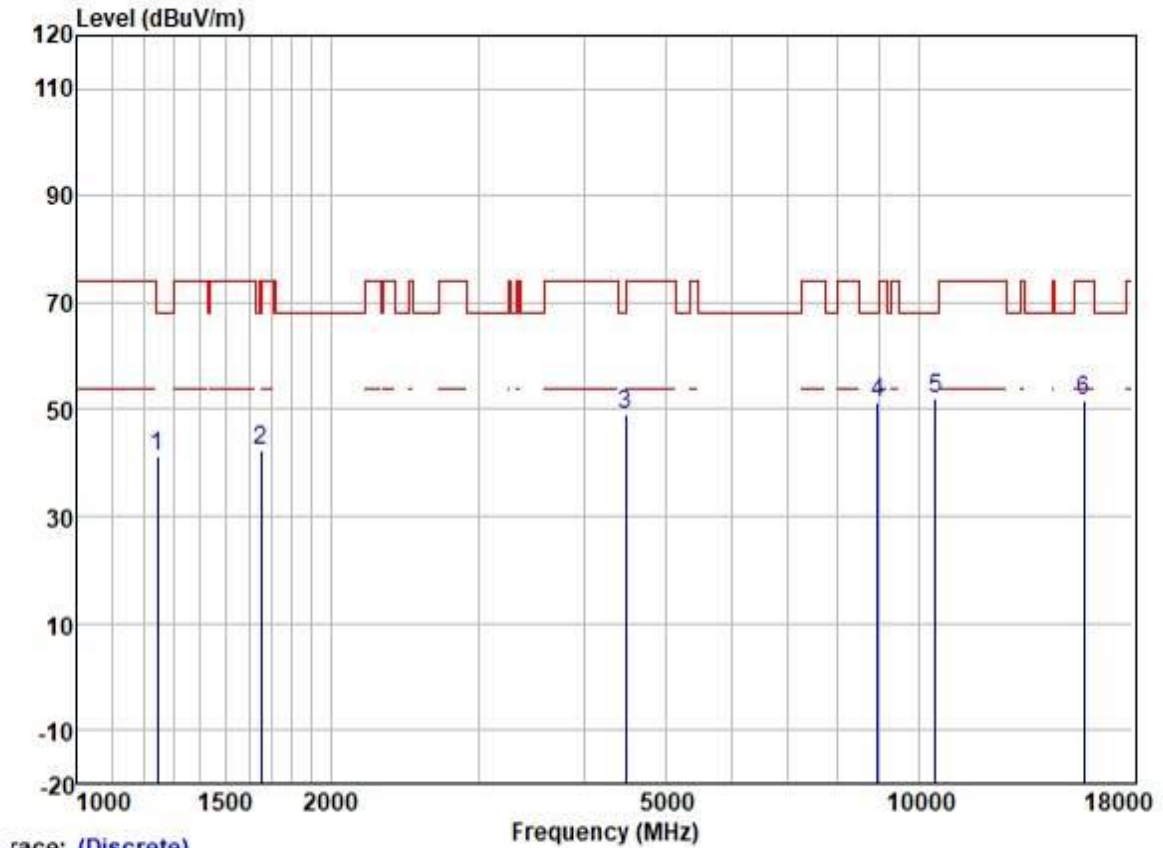
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB		
1	1267.454	47.80	25.10	2.44	38.33	37.01	68.20	-31.19	HORIZONTAL peak
2	1542.733	47.15	25.53	2.80	38.03	37.45	74.00	-36.55	HORIZONTAL peak
3	4456.315	43.66	30.75	4.88	36.81	42.48	68.20	-25.72	HORIZONTAL peak
4	8995.123	38.48	37.40	7.56	37.50	45.94	68.20	-22.26	HORIZONTAL peak
5	10440.000	40.42	39.42	7.37	37.36	49.85	68.20	-18.35	HORIZONTAL peak
6	15660.000	37.84	38.86	9.87	35.39	51.18	74.00	-22.82	HORIZONTAL peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



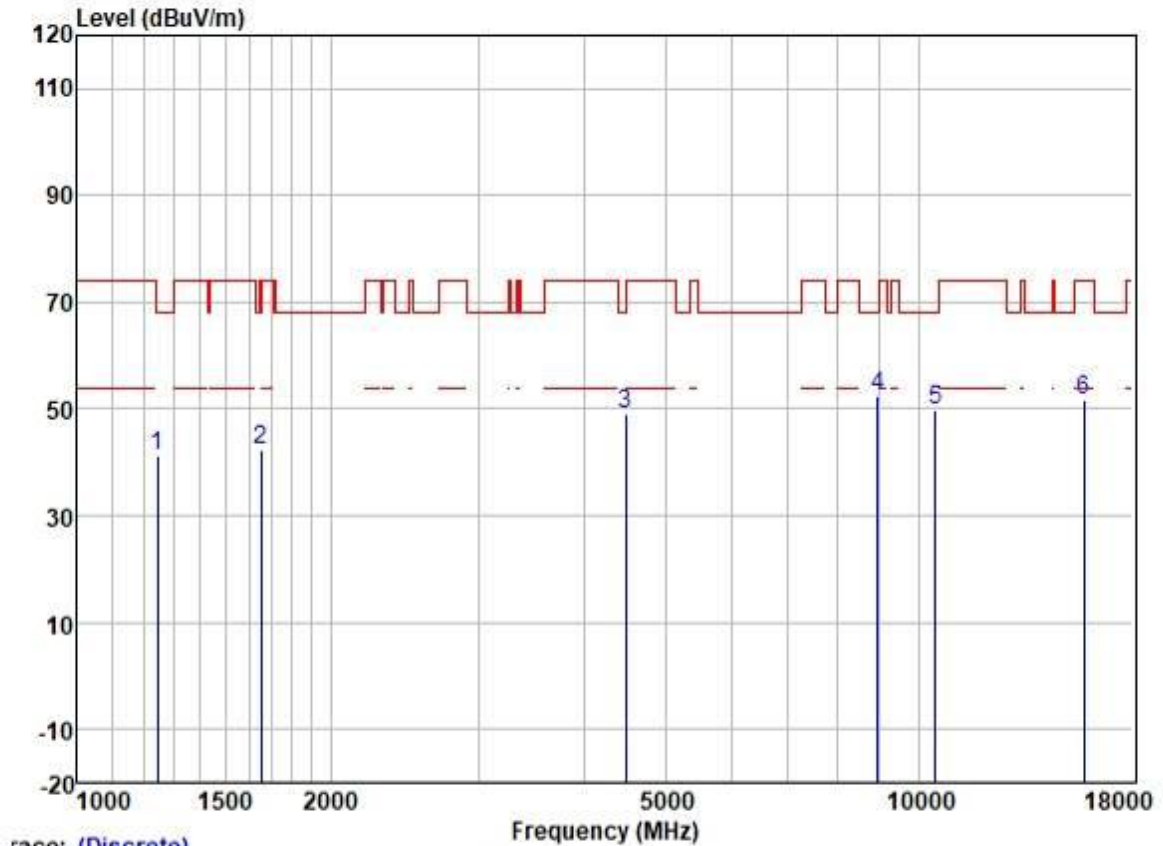
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1245.663	52.32	25.00	2.33	38.35	41.30	68.20	-26.90	VERTICAL peak
2	1653.550	51.78	25.64	2.80	37.93	42.29	68.20	-25.91	VERTICAL peak
3	4482.150	50.18	30.78	4.99	36.81	49.14	68.20	-19.06	VERTICAL peak
4	8943.274	44.06	37.38	7.49	37.51	51.42	68.20	-16.78	VERTICAL peak
5	10480.000	42.49	39.46	7.40	37.36	51.99	68.20	-16.21	VERTICAL peak
6	15720.000	38.46	38.78	9.87	35.39	51.72	74.00	-22.28	VERTICAL peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



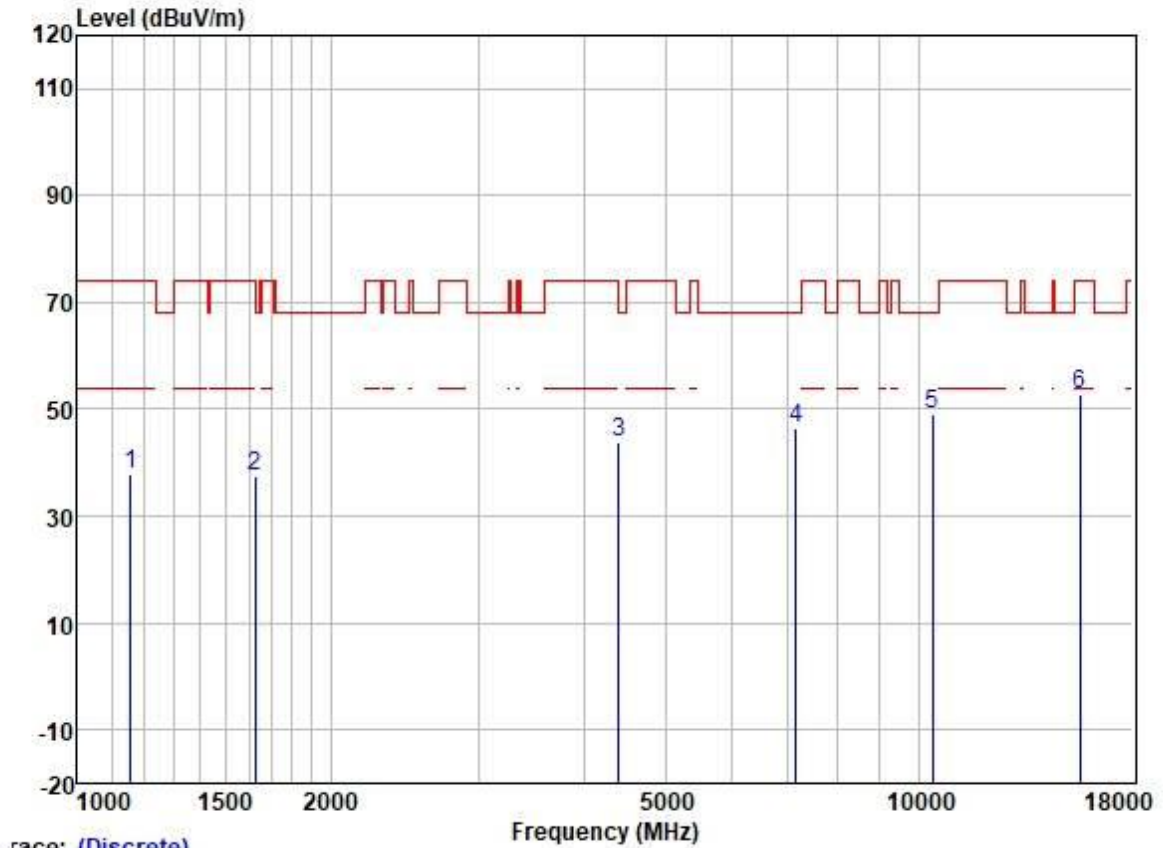
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1245.663	52.32	25.00	2.33	38.35	41.30	68.20	-26.90	HORIZONTAL	peak
2	1653.550	51.78	25.64	2.80	37.93	42.29	68.20	-25.91	HORIZONTAL	peak
3	4482.150	50.18	30.78	4.99	36.81	49.14	68.20	-19.06	HORIZONTAL	peak
4	8943.274	45.06	37.38	7.49	37.51	52.42	68.20	-15.78	HORIZONTAL	peak
5	10480.000	40.49	39.46	7.40	37.36	49.99	68.20	-18.21	HORIZONTAL	peak
6	15720.000	38.46	38.78	9.87	35.39	51.72	74.00	-22.28	HORIZONTAL	peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



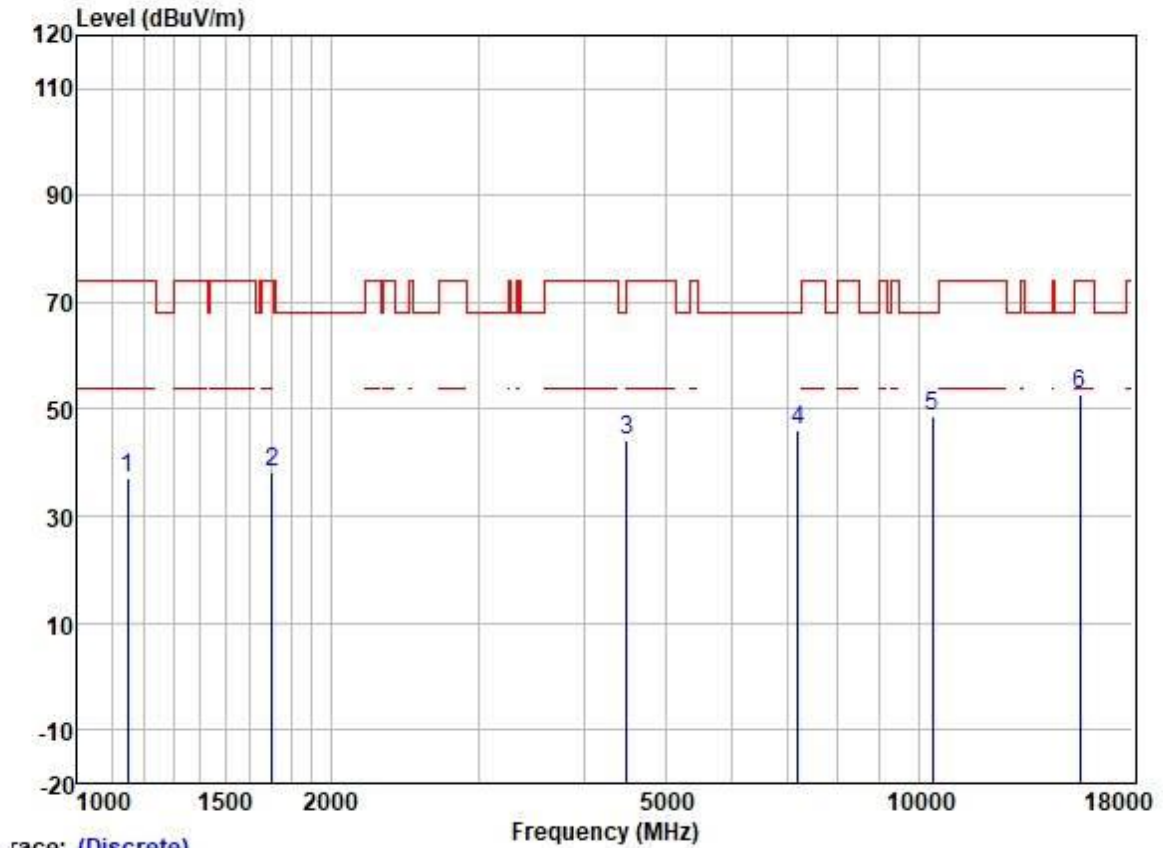
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1155.483	49.22	24.51	2.38	38.42	37.69	74.00	-36.31 VERTICAL peak
2	1625.121	47.20	25.61	2.80	37.95	37.66	74.00	-36.34 VERTICAL peak
3	4405.090	45.31	30.68	4.70	36.81	43.88	68.20	-24.32 VERTICAL peak
4	7158.806	42.59	35.40	5.94	37.35	46.58	68.20	-21.62 VERTICAL peak
5	10380.000	39.95	39.33	7.32	37.37	49.23	68.20	-18.97 VERTICAL peak
6	15570.000	39.15	38.99	9.88	35.39	52.63	74.00	-21.37 VERTICAL peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



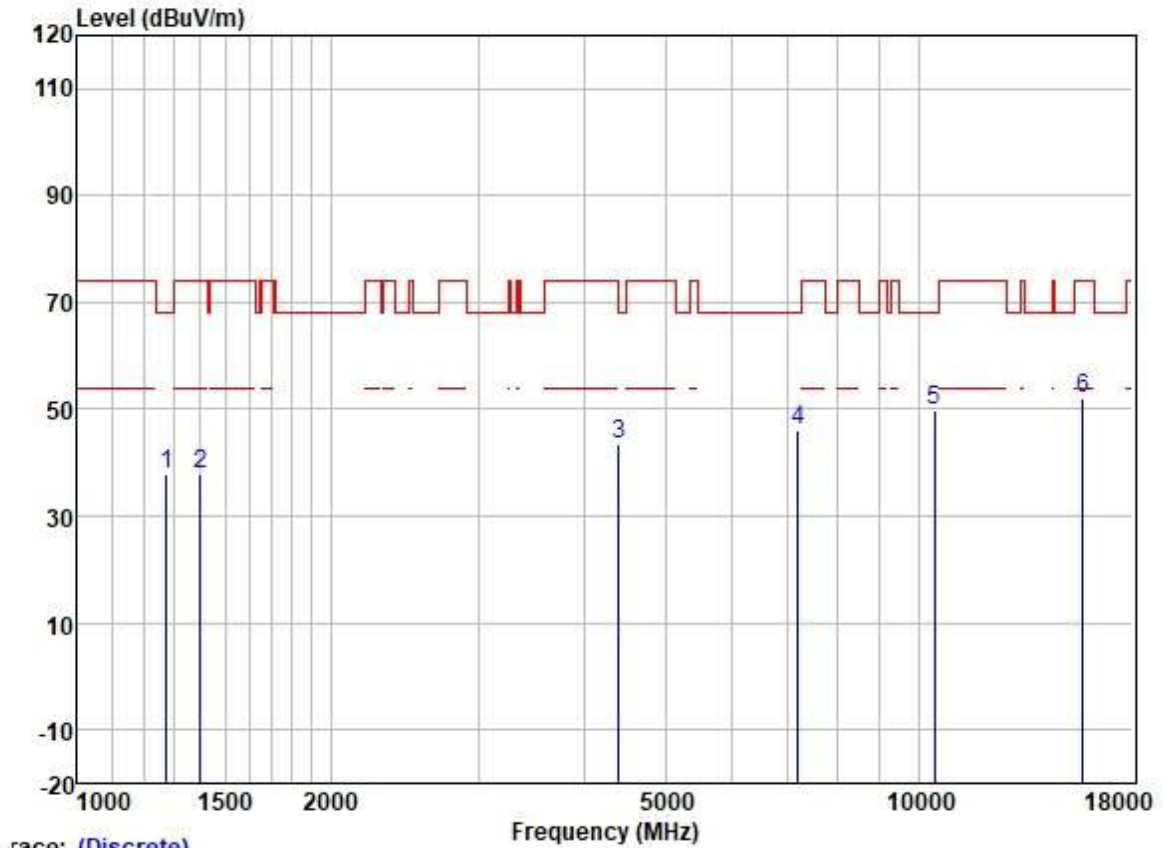
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1148.823	48.68	24.49	2.34	38.42	74.00	-36.91	HORIZONTAL peak
2	1702.042	47.49	25.72	2.80	37.89	74.00	-35.88	HORIZONTAL peak
3	4495.125	45.10	30.80	5.05	36.82	68.20	-24.07	HORIZONTAL peak
4	7200.309	42.10	35.54	5.98	37.38	68.20	-21.96	HORIZONTAL peak
5	10380.000	39.45	39.33	7.32	37.37	68.20	-19.47	HORIZONTAL peak
6	15570.000	39.23	38.99	9.88	35.39	74.00	-21.29	HORIZONTAL peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



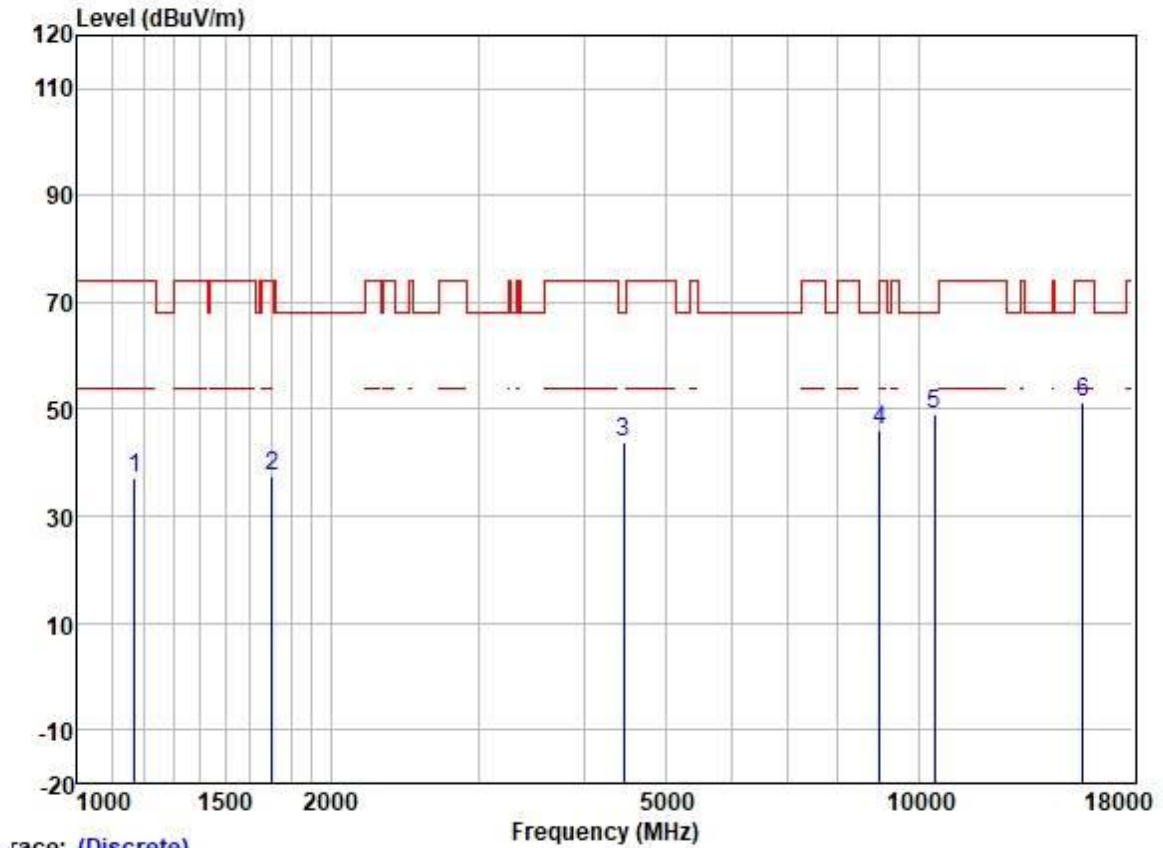
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1274.802	48.62	25.12	2.48	38.33	37.89	68.20	-30.31	VERTICAL peak
2	1398.336	47.91	25.39	2.60	38.22	37.68	74.00	-36.32	VERTICAL peak
3	4405.090	45.06	30.68	4.70	36.81	43.63	68.20	-24.57	VERTICAL peak
4	7200.309	42.06	35.54	5.98	37.38	46.20	68.20	-22.00	VERTICAL peak
5	10460.000	40.36	39.42	7.37	37.36	49.79	68.20	-18.41	VERTICAL peak
6	15690.000	38.77	38.86	9.87	35.39	52.11	74.00	-21.89	VERTICAL peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



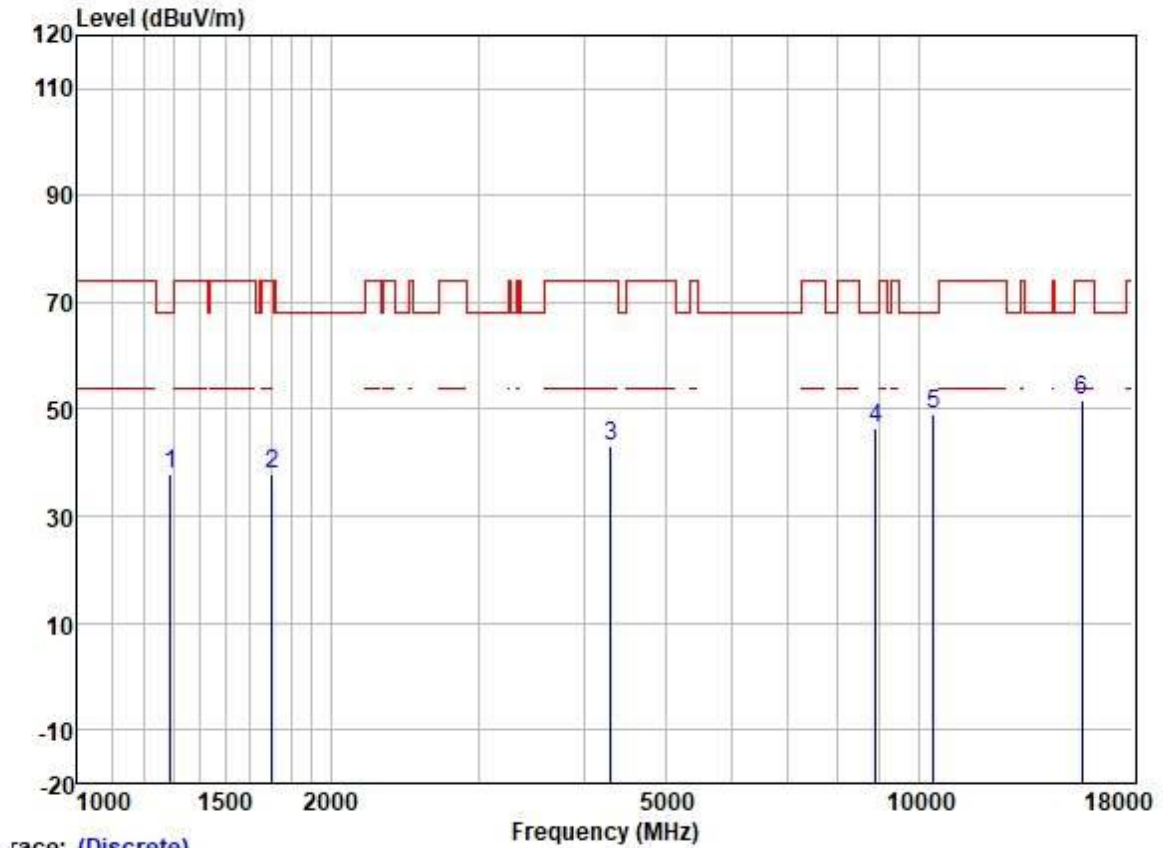
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1168.920	48.55	24.55	2.39	38.40	74.00	-36.91	HORIZONTAL peak
2	1702.042	46.88	25.72	2.80	37.89	74.00	-36.49	HORIZONTAL peak
3	4456.315	44.86	30.75	4.88	36.81	68.20	-24.52	HORIZONTAL peak
4	8995.123	38.78	37.40	7.56	37.50	68.20	-21.96	HORIZONTAL peak
5	10460.000	39.75	39.42	7.37	37.36	68.20	-19.02	HORIZONTAL peak
6	15690.000	37.99	38.86	9.87	35.39	74.00	-22.67	HORIZONTAL peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



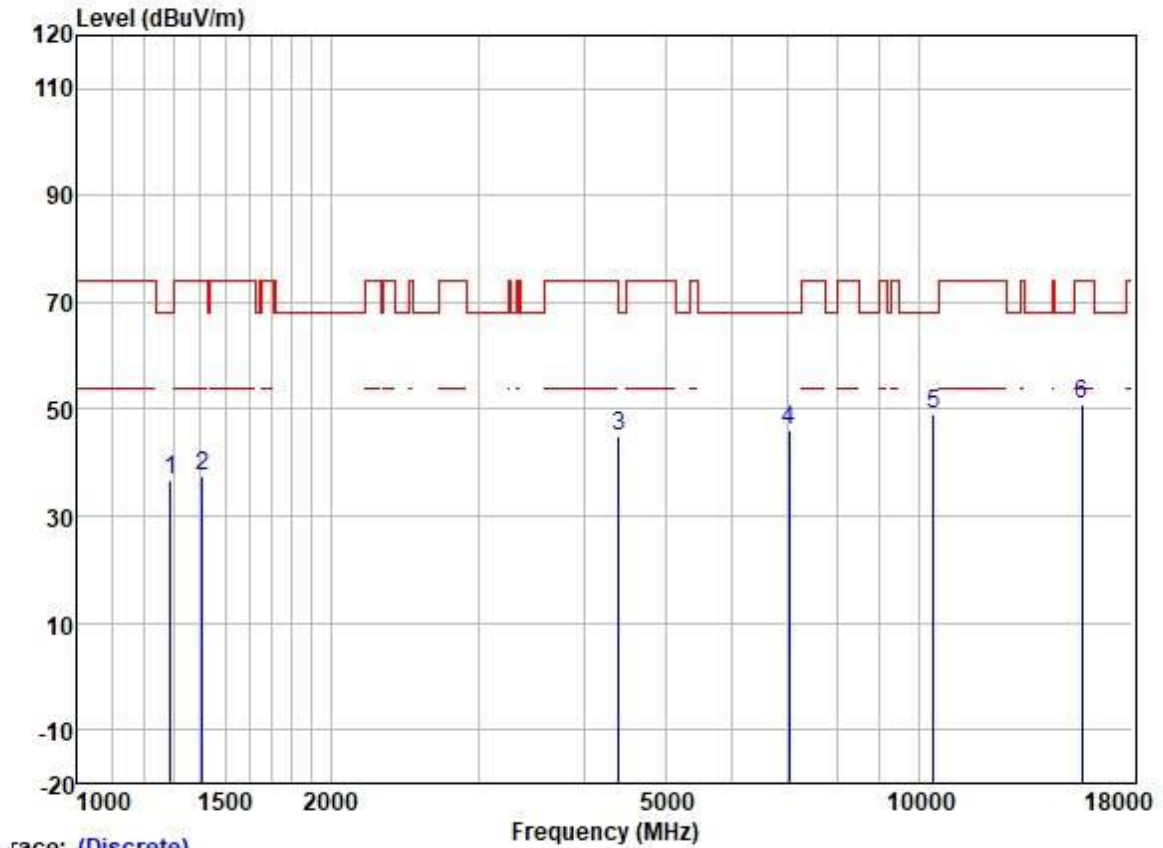
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1289.627	48.27	25.17	2.55	38.31	37.68	68.20	-30.52 VERTICAL peak
2	1702.042	47.30	25.72	2.80	37.89	37.93	74.00	-36.07 VERTICAL peak
3	4304.400	44.80	30.48	4.65	36.81	43.12	74.00	-30.88 VERTICAL peak
4	8891.725	39.36	37.37	7.42	37.52	46.63	68.20	-21.57 VERTICAL peak
5	10420.000	39.56	39.38	7.35	37.36	48.93	68.20	-19.27 VERTICAL peak
6	15630.000	38.20	38.92	9.87	35.39	51.60	74.00	-22.40 VERTICAL peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



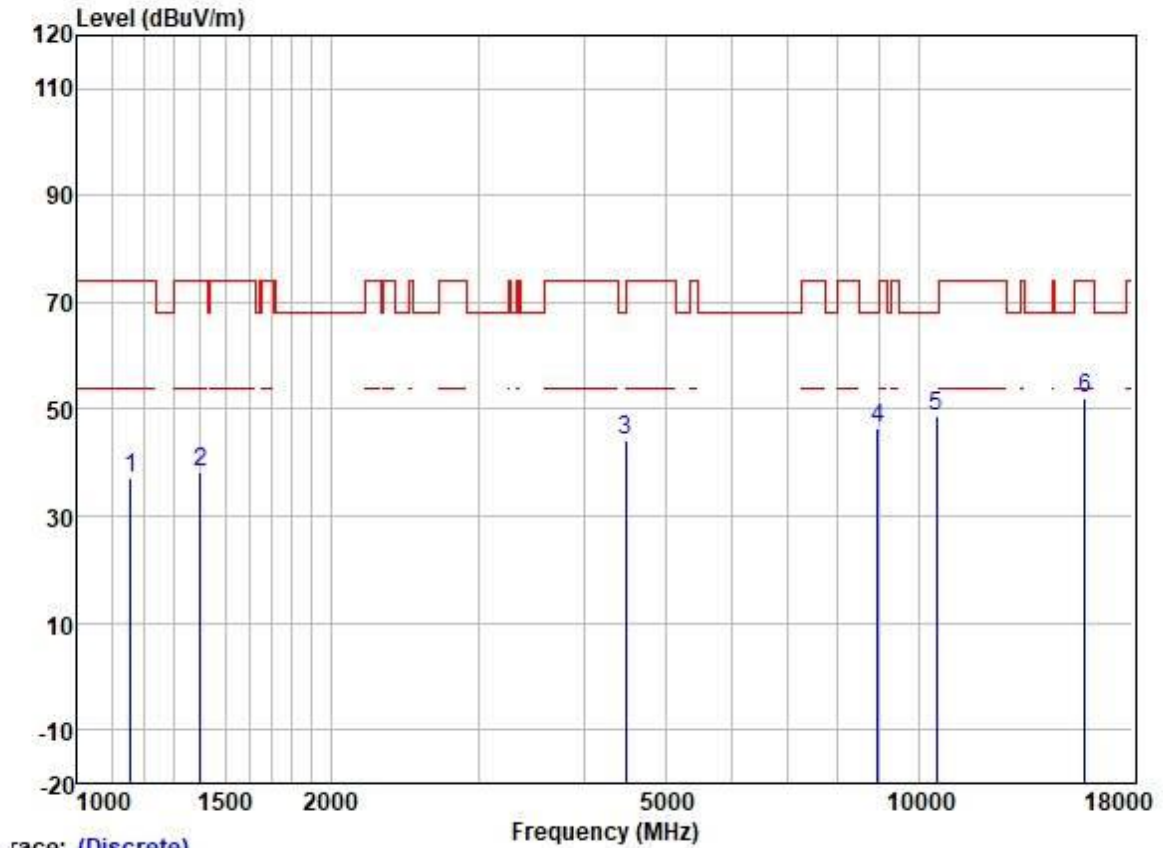
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	47.44	25.17	2.55	38.31	36.85	68.20	-31.35	HORIZONTAL peak
2	1406.443	47.89	25.40	2.61	38.22	37.68	74.00	-36.32	HORIZONTAL peak
3	4405.090	46.40	30.68	4.70	36.81	44.97	68.20	-23.23	HORIZONTAL peak
4	7015.420	42.47	35.04	5.82	37.27	46.06	68.20	-22.14	HORIZONTAL peak
5	10420.000	39.52	39.38	7.35	37.36	48.89	68.20	-19.31	HORIZONTAL peak
6	15630.000	37.51	38.92	9.87	35.39	50.91	74.00	-23.09	HORIZONTAL peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

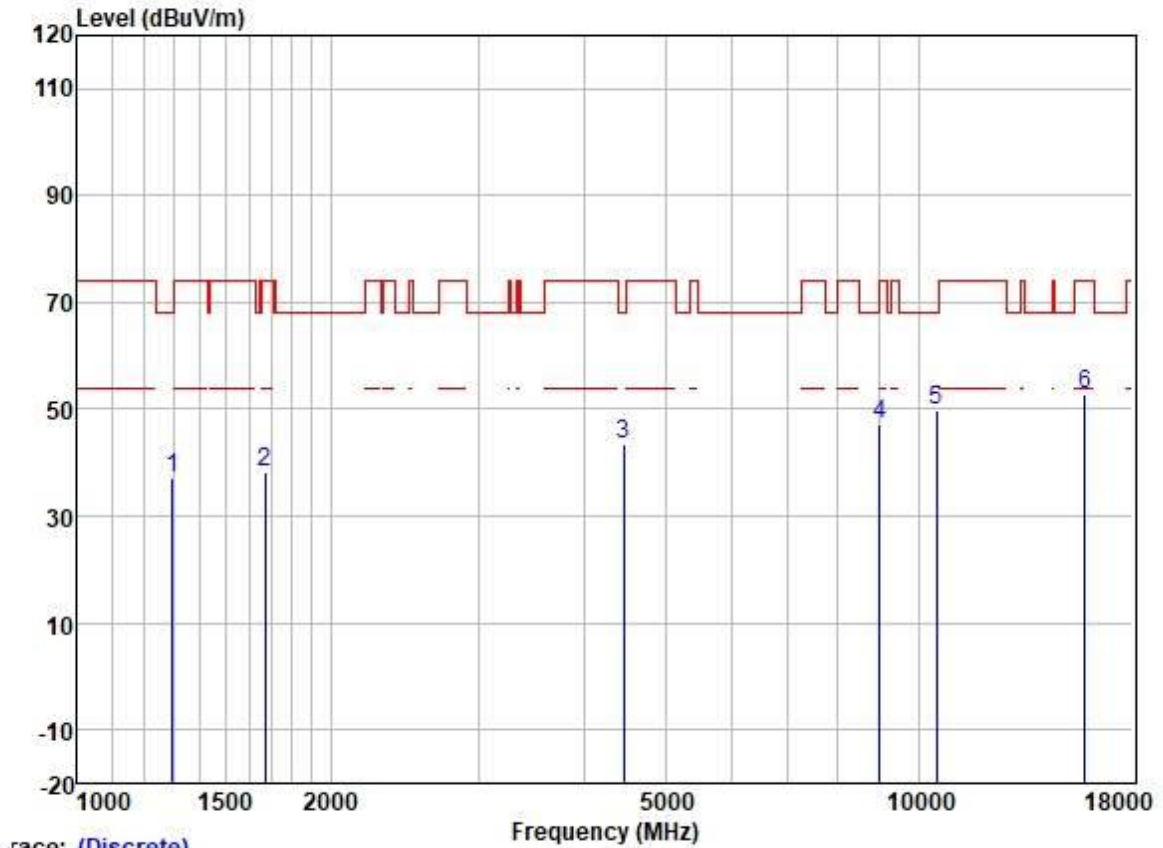
	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1155.483	48.51	24.51	2.38	38.42	36.98	74.00	-37.02	VERTICAL	peak
2	1398.336	48.60	25.39	2.60	38.22	38.37	74.00	-35.63	VERTICAL	peak
3	4482.150	45.12	30.78	4.99	36.81	44.08	68.20	-24.12	VERTICAL	peak
4	8943.274	39.16	37.38	7.49	37.51	46.52	68.20	-21.68	VERTICAL	peak
5	10520.000	39.16	39.50	7.42	37.35	48.73	68.20	-19.47	VERTICAL	peak
6	15780.000	38.83	38.70	9.86	35.39	52.00	74.00	-22.00	VERTICAL	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



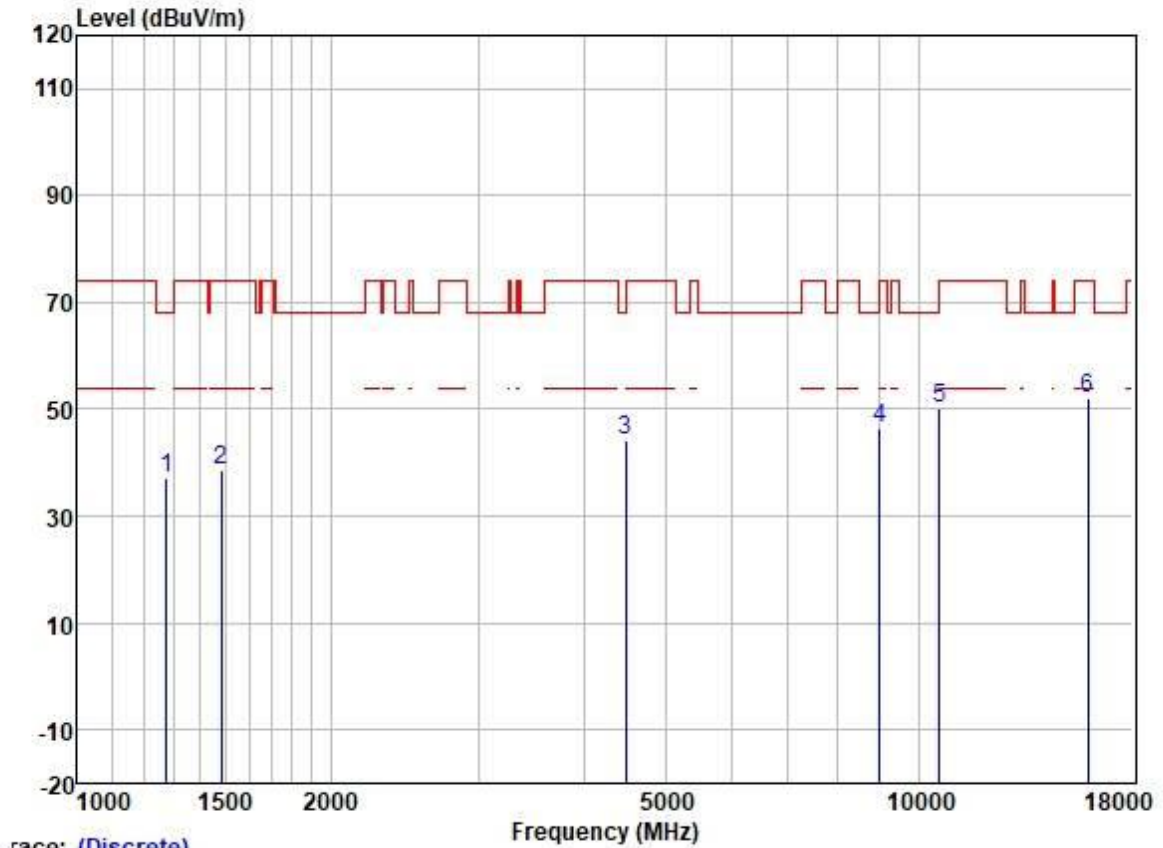
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1297.103	47.63	25.19	2.58	38.31	37.09	68.20	-31.11	HORIZONTAL peak
2	1672.779	47.68	25.67	2.80	37.91	38.24	74.00	-35.76	HORIZONTAL peak
3	4456.315	44.61	30.75	4.88	36.81	43.43	68.20	-24.77	HORIZONTAL peak
4	8995.123	39.66	37.40	7.56	37.50	47.12	68.20	-21.08	HORIZONTAL peak
5	10520.000	40.42	39.50	7.42	37.35	49.99	68.20	-18.21	HORIZONTAL peak
6	15780.000	39.55	38.70	9.86	35.39	52.72	74.00	-21.28	HORIZONTAL peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



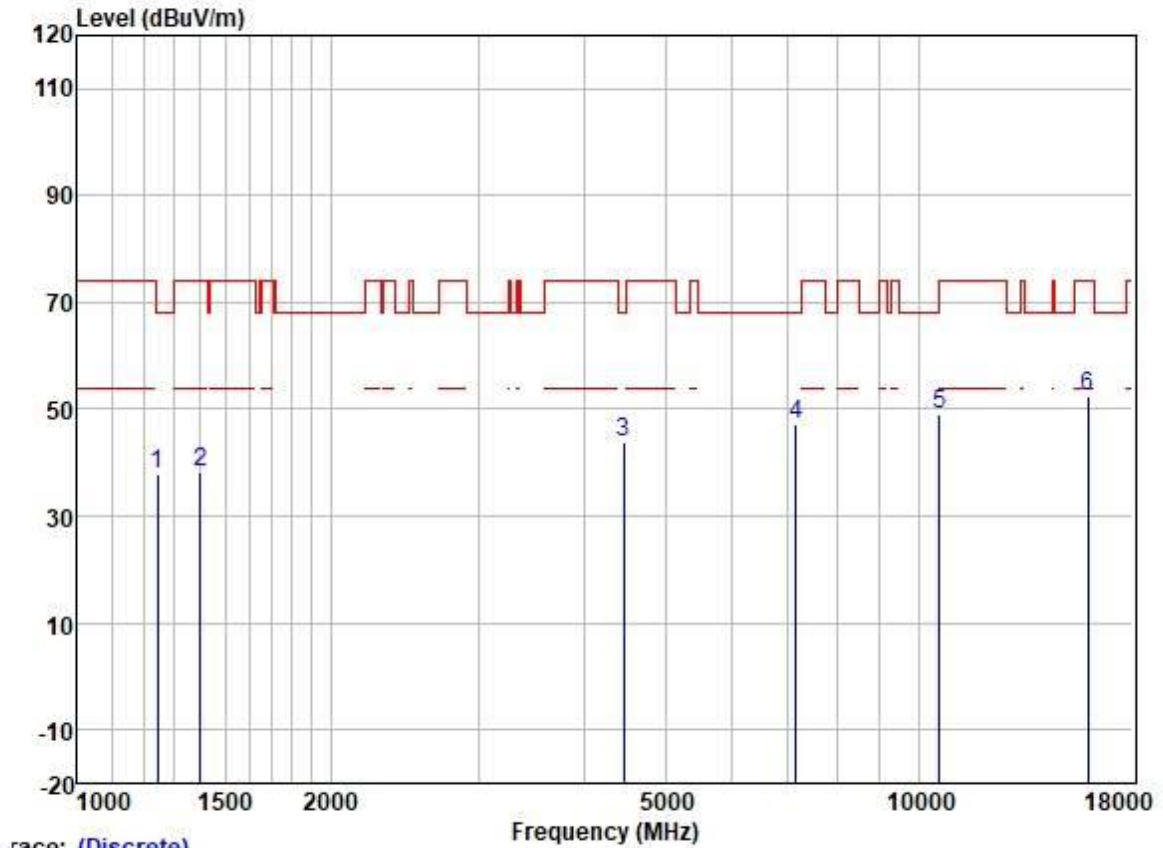
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1274.802	47.76	25.12	2.48	38.33	68.20	-31.17	VERTICAL peak
2	1481.553	48.36	25.48	2.77	38.13	74.00	-35.52	VERTICAL peak
3	4482.150	45.14	30.78	4.99	36.81	68.20	-24.10	VERTICAL peak
4	8995.123	39.02	37.40	7.56	37.50	68.20	-21.72	VERTICAL peak
5	10600.000	40.48	39.59	7.46	37.34	68.20	-18.01	VERTICAL peak
6	15900.000	39.05	38.44	9.86	35.40	74.00	-22.05	VERTICAL peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1245.663	48.98	25.00	2.33	38.35	37.96	68.20	-30.24	HORIZONTAL peak
2	1398.336	48.37	25.39	2.60	38.22	38.14	74.00	-35.86	HORIZONTAL peak
3	4456.315	45.10	30.75	4.88	36.81	43.92	68.20	-24.28	HORIZONTAL peak
4	7158.806	43.21	35.40	5.94	37.35	47.20	68.20	-21.00	HORIZONTAL peak
5	10600.000	39.46	39.59	7.46	37.34	49.17	68.20	-19.03	HORIZONTAL peak
6	15900.000	39.69	38.44	9.86	35.40	52.59	74.00	-21.41	HORIZONTAL peak

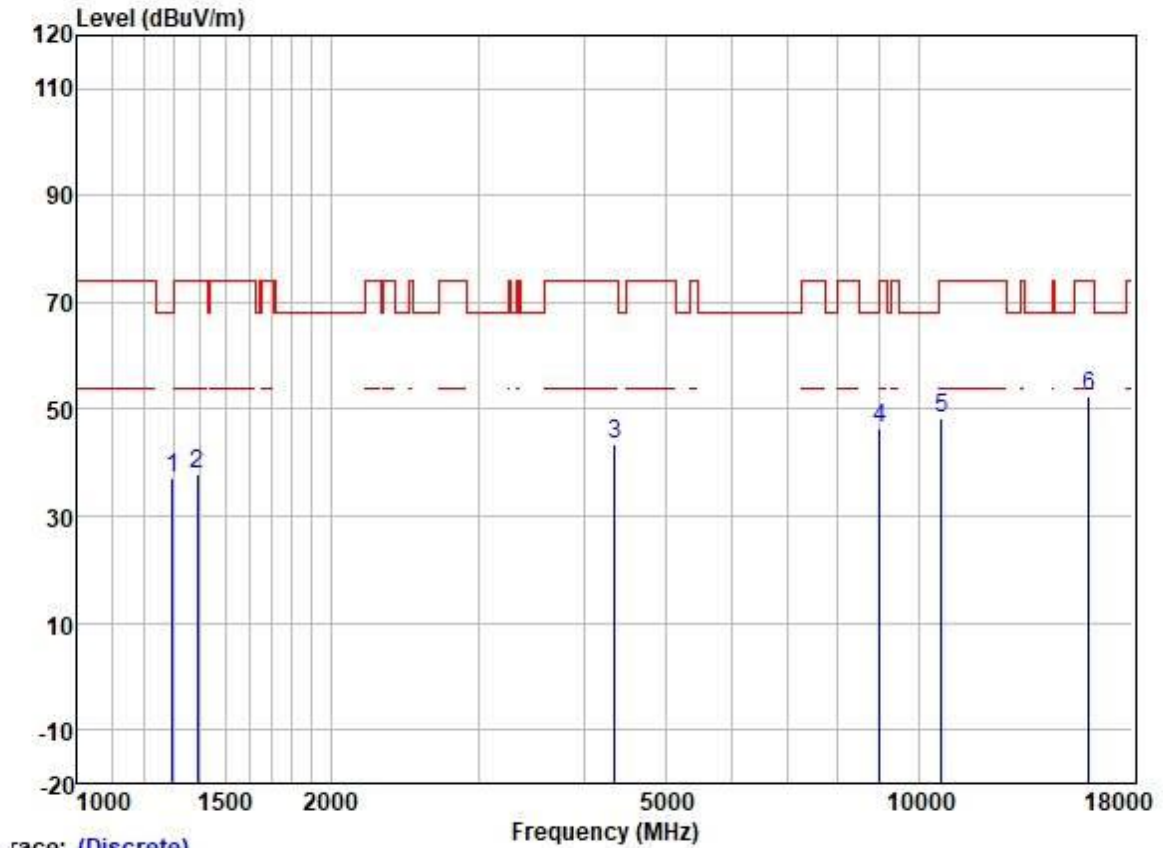


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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1297.103	47.83	25.19	2.58	38.31	37.29	68.20	-30.91	VERTICAL peak
2	1390.276	48.12	25.38	2.60	38.22	37.88	74.00	-36.12	VERTICAL peak
3	4354.454	44.85	30.59	4.68	36.81	43.31	74.00	-30.69	VERTICAL peak
4	8995.123	38.82	37.40	7.56	37.50	46.28	68.20	-21.92	VERTICAL peak
5	10640.000	38.69	39.63	7.48	37.33	48.47	74.00	-25.53	VERTICAL peak
6	15960.000	39.59	38.37	9.85	35.40	52.41	74.00	-21.59	VERTICAL peak

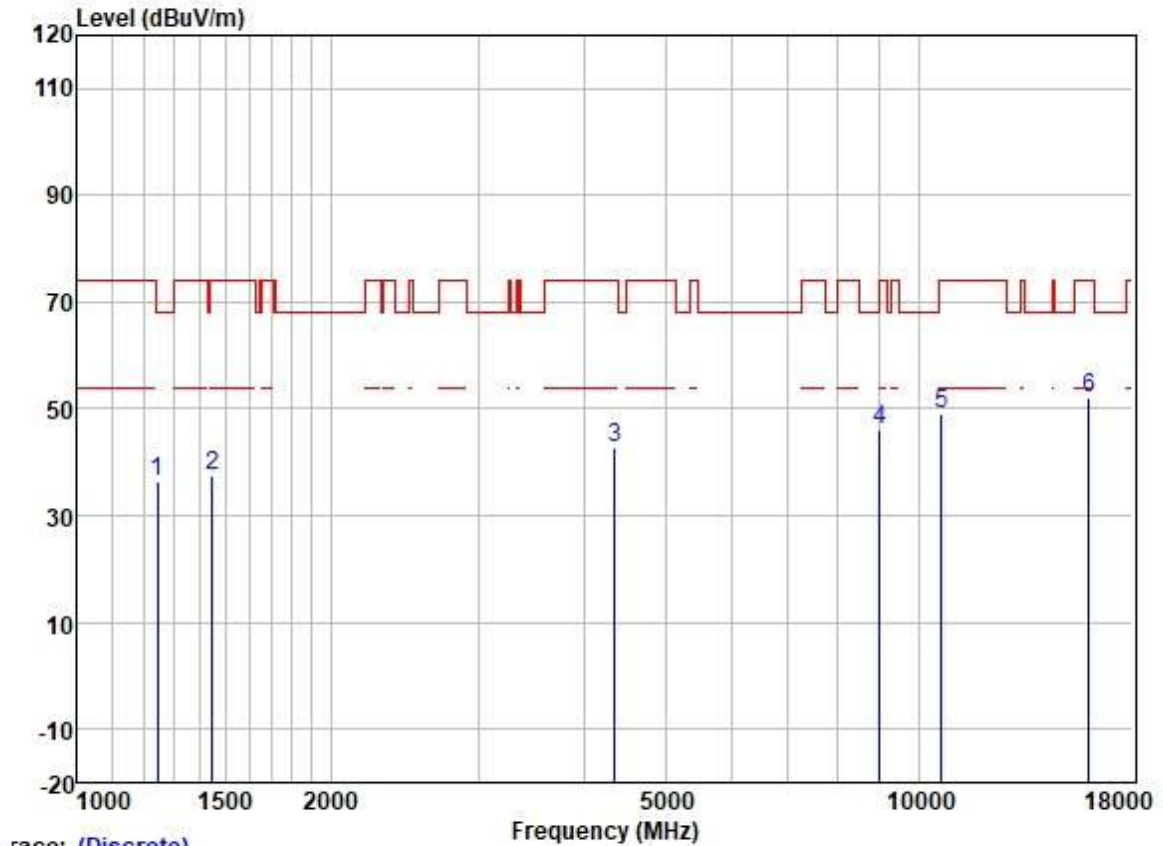


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



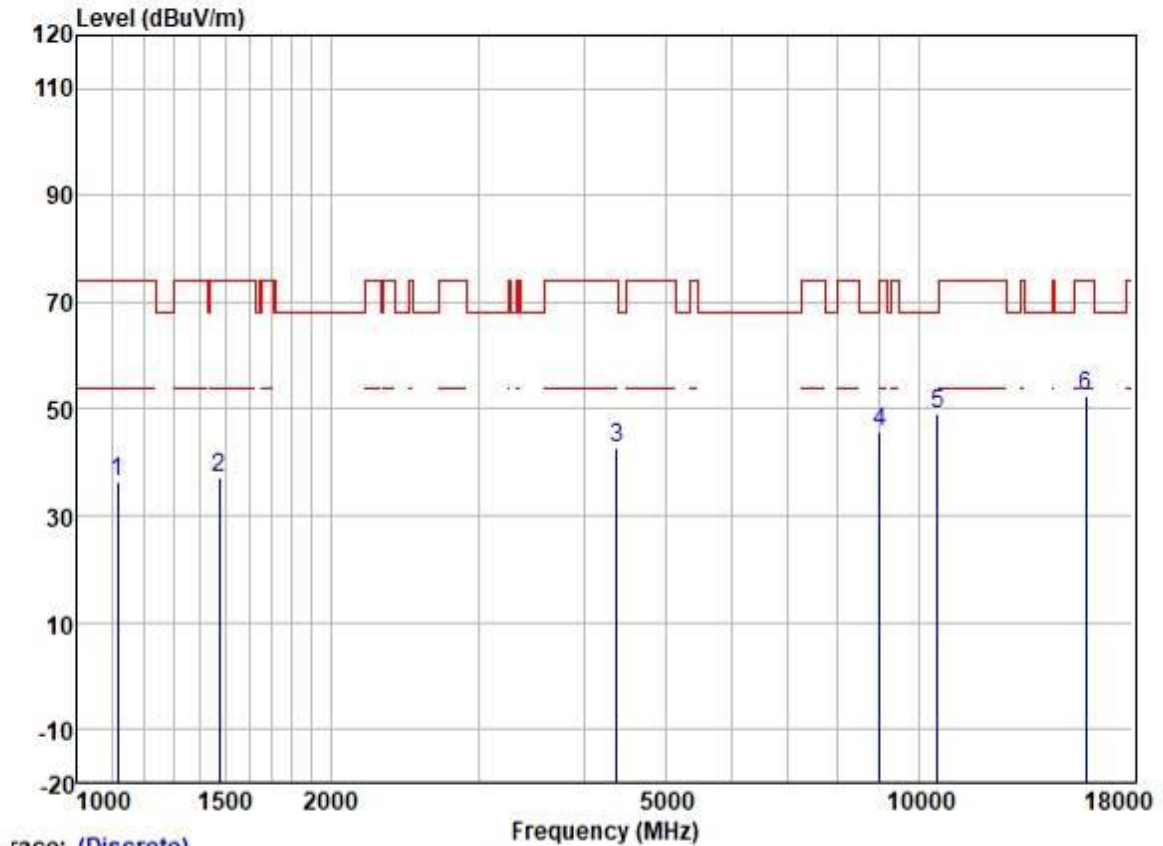
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1245.663	47.58	25.00	2.33	38.35	36.56	68.20	-31.64	HORIZONTAL peak
2	1447.688	47.46	25.45	2.70	38.17	37.44	74.00	-36.56	HORIZONTAL peak
3	4354.454	44.16	30.59	4.68	36.81	42.62	74.00	-31.38	HORIZONTAL peak
4	8995.123	38.53	37.40	7.56	37.50	45.99	68.20	-22.21	HORIZONTAL peak
5	10640.000	39.32	39.63	7.48	37.33	49.10	74.00	-24.90	HORIZONTAL peak
6	15960.000	39.13	38.37	9.85	35.40	51.95	74.00	-22.05	HORIZONTAL peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



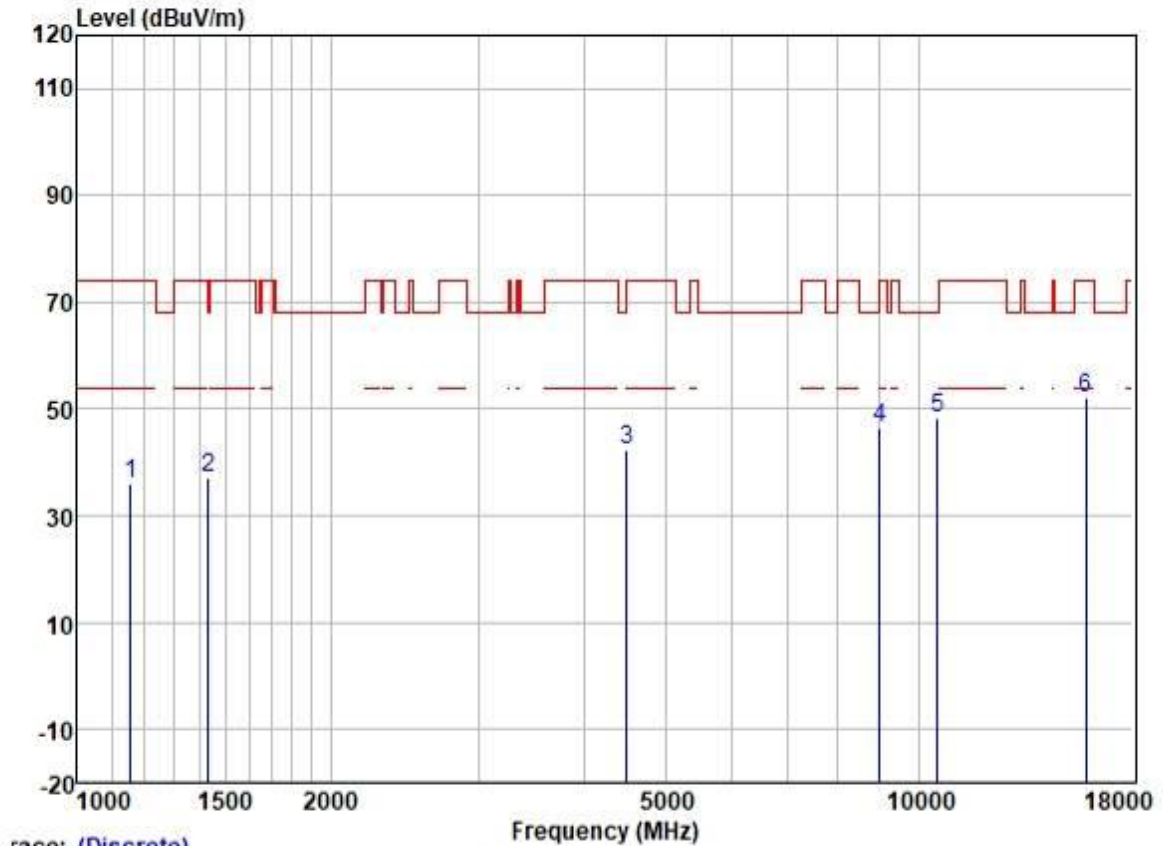
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1116.093	48.32	24.40	2.25	38.43	36.54	74.00 -37.46	VERTICAL	peak
2	1473.013	46.93	25.48	2.76	38.13	37.04	74.00 -36.96	VERTICAL	peak
3	4379.699	44.19	30.64	4.69	36.81	42.71	74.00 -31.29	VERTICAL	peak
4	8995.123	38.09	37.40	7.56	37.50	45.55	68.20 -22.65	VERTICAL	peak
5	10540.000	39.47	39.53	7.43	37.35	49.08	68.20 -19.12	VERTICAL	peak
6	15810.000	39.34	38.61	9.86	35.39	52.42	74.00 -21.58	VERTICAL	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



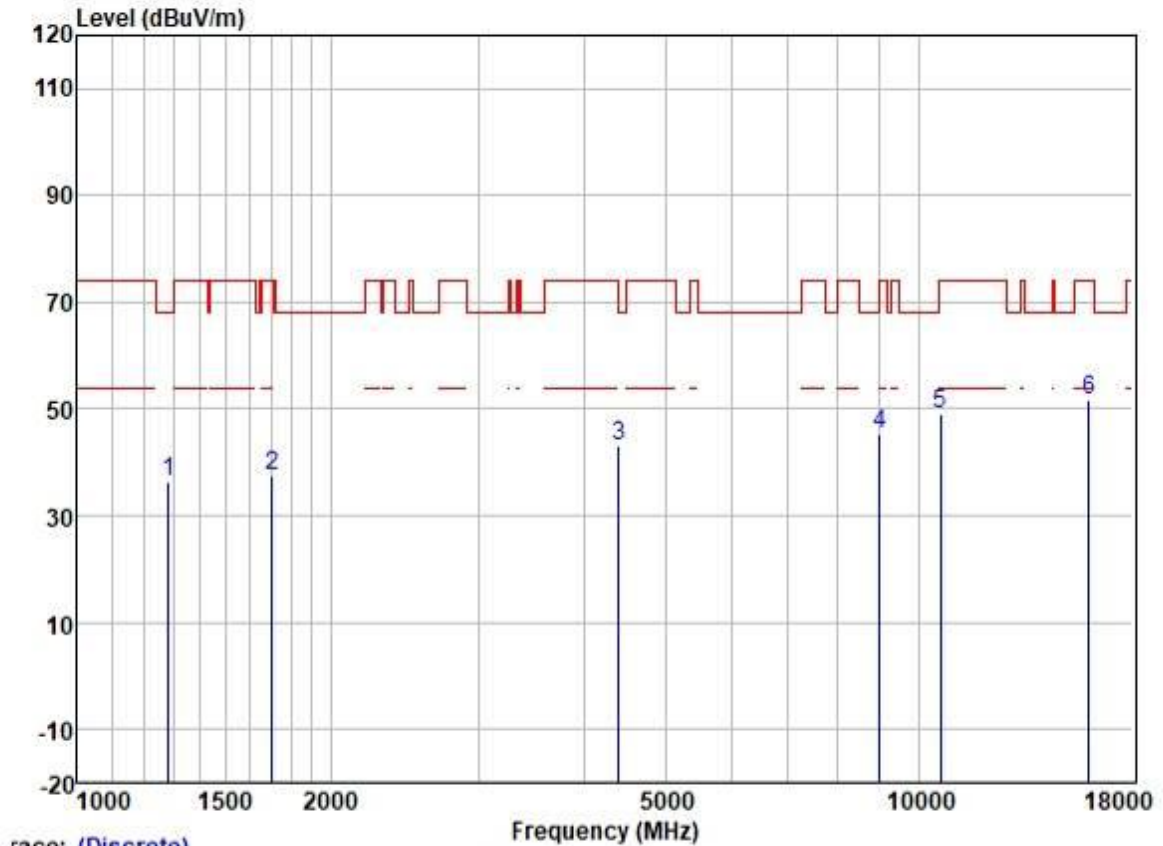
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1155.483	47.46	24.51	2.38	38.42	35.93	74.00	-38.07	HORIZONTAL peak
2	1431.047	47.22	25.43	2.66	38.20	37.11	68.20	-31.09	HORIZONTAL peak
3	4495.125	43.32	30.80	5.05	36.82	42.35	68.20	-25.85	HORIZONTAL peak
4	8995.123	38.87	37.40	7.56	37.50	46.33	68.20	-21.87	HORIZONTAL peak
5	10540.000	38.55	39.53	7.43	37.35	48.16	68.20	-20.04	HORIZONTAL peak
6	15810.000	39.10	38.61	9.86	35.39	52.18	74.00	-21.82	HORIZONTAL peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



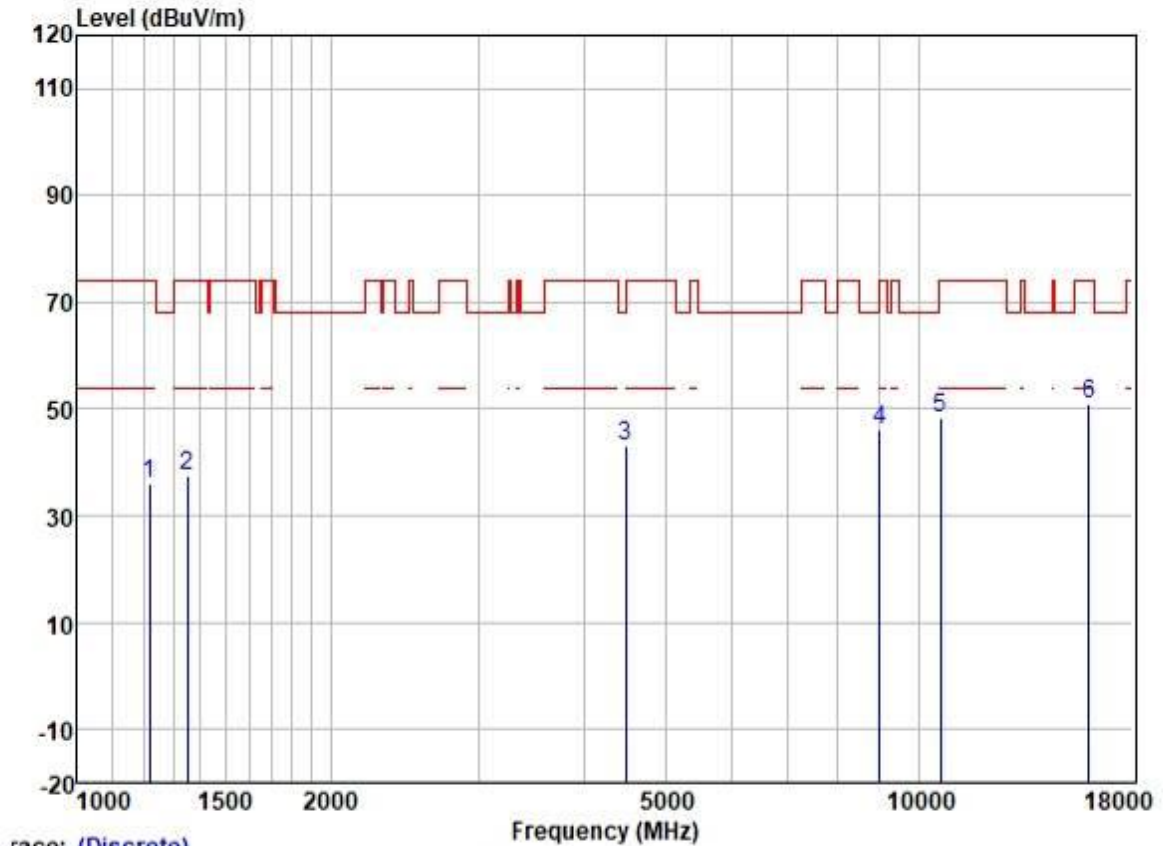
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1282.193	46.91	25.15	2.52	38.33	36.25	68.20 -31.95	VERTICAL	peak
2	1702.042	47.04	25.72	2.80	37.89	37.67	74.00 -36.33	VERTICAL	peak
3	4405.090	44.37	30.68	4.70	36.81	42.94	68.20 -25.26	VERTICAL	peak
4	8995.123	37.84	37.40	7.56	37.50	45.30	68.20 -22.90	VERTICAL	peak
5	10620.000	39.18	39.59	7.46	37.34	48.89	74.00 -25.11	VERTICAL	peak
6	15930.000	38.96	38.37	9.85	35.40	51.78	74.00 -22.22	VERTICAL	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



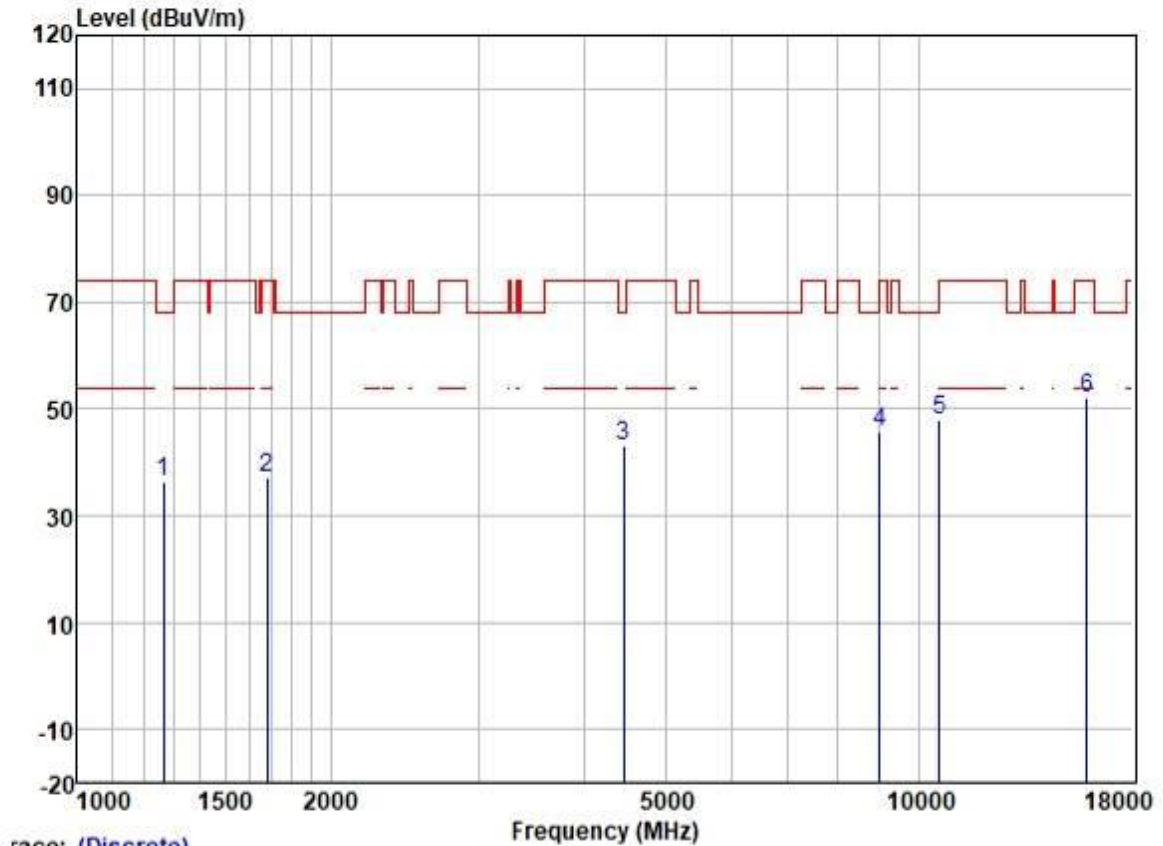
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1217.190	47.18	24.79	2.32	38.37	35.92	74.00 -38.08	HORIZONTAL	peak
2	1350.667	48.02	25.31	2.60	38.27	37.66	74.00 -36.34	HORIZONTAL	peak
3	4482.150	43.95	30.78	4.99	36.81	42.91	68.20 -25.29	HORIZONTAL	peak
4	8995.123	38.56	37.40	7.56	37.50	46.02	68.20 -22.18	HORIZONTAL	peak
5	10620.000	38.62	39.59	7.46	37.34	48.33	74.00 -25.67	HORIZONTAL	peak
6	15930.000	38.20	38.37	9.85	35.40	51.02	74.00 -22.98	HORIZONTAL	peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



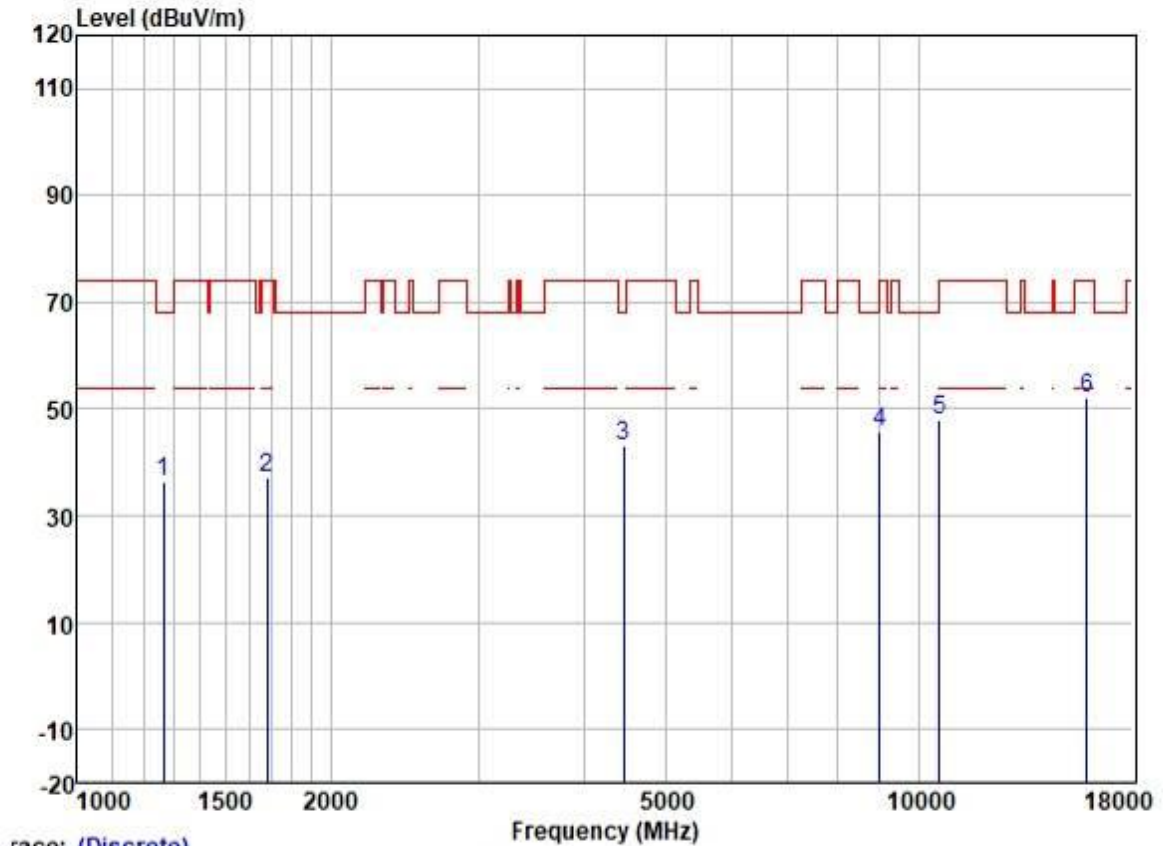
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	47.20	25.10	2.44	38.33	36.41	68.20	-31.79	VERTICAL	peak
2	1682.477	46.49	25.68	2.80	37.91	37.06	74.00	-36.94	VERTICAL	peak
3	4456.315	44.14	30.75	4.88	36.81	42.96	68.20	-25.24	VERTICAL	peak
4	8995.123	38.33	37.40	7.56	37.50	45.79	68.20	-22.41	VERTICAL	peak
5	10580.000	38.34	39.56	7.45	37.34	48.01	68.20	-20.19	VERTICAL	peak
6	15870.000	39.05	38.52	9.86	35.40	52.03	74.00	-21.97	VERTICAL	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



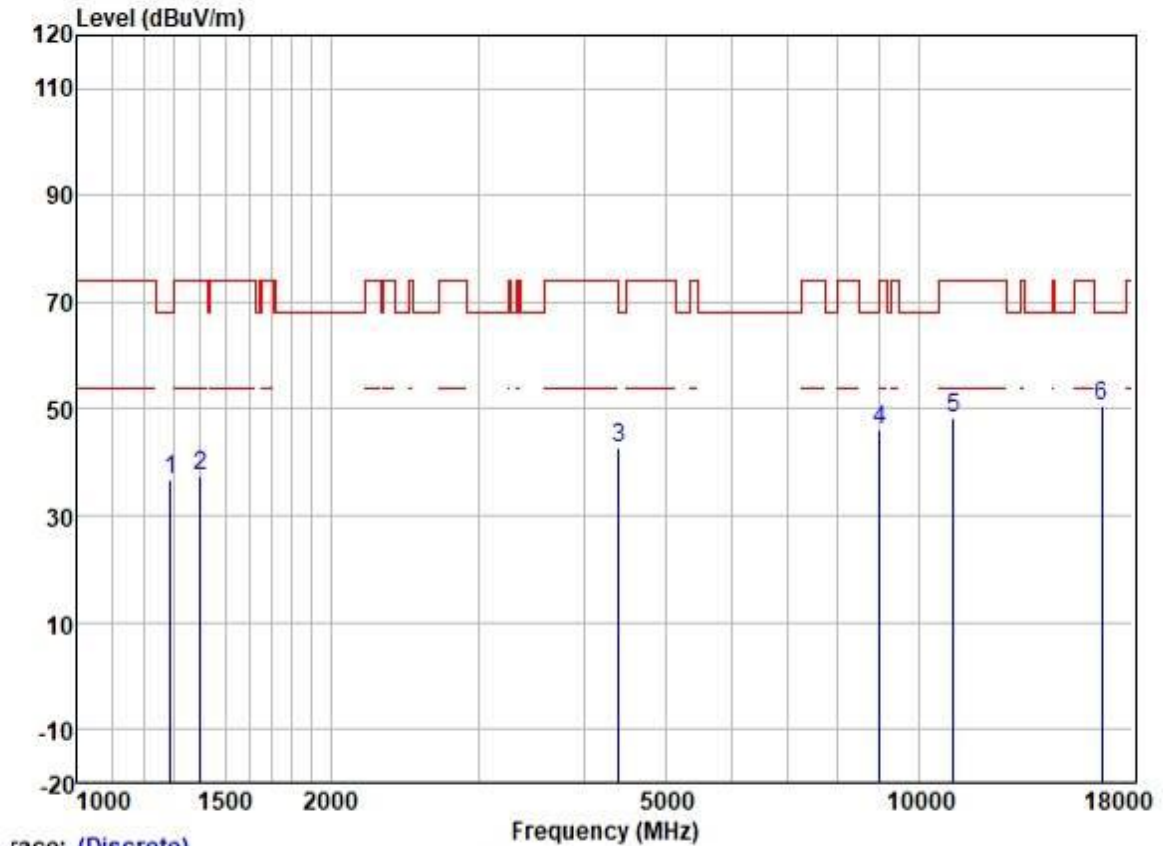
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	47.20	25.10	2.44	38.33	36.41	68.20	-31.79	HORIZONTAL peak
2	1682.477	46.49	25.68	2.80	37.91	37.06	74.00	-36.94	HORIZONTAL peak
3	4456.315	44.14	30.75	4.88	36.81	42.96	68.20	-25.24	HORIZONTAL peak
4	8995.123	38.33	37.40	7.56	37.50	45.79	68.20	-22.41	HORIZONTAL peak
5	10580.000	38.34	39.56	7.45	37.34	48.01	68.20	-20.19	HORIZONTAL peak
6	15870.000	39.05	38.52	9.86	35.40	52.03	74.00	-21.97	HORIZONTAL peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



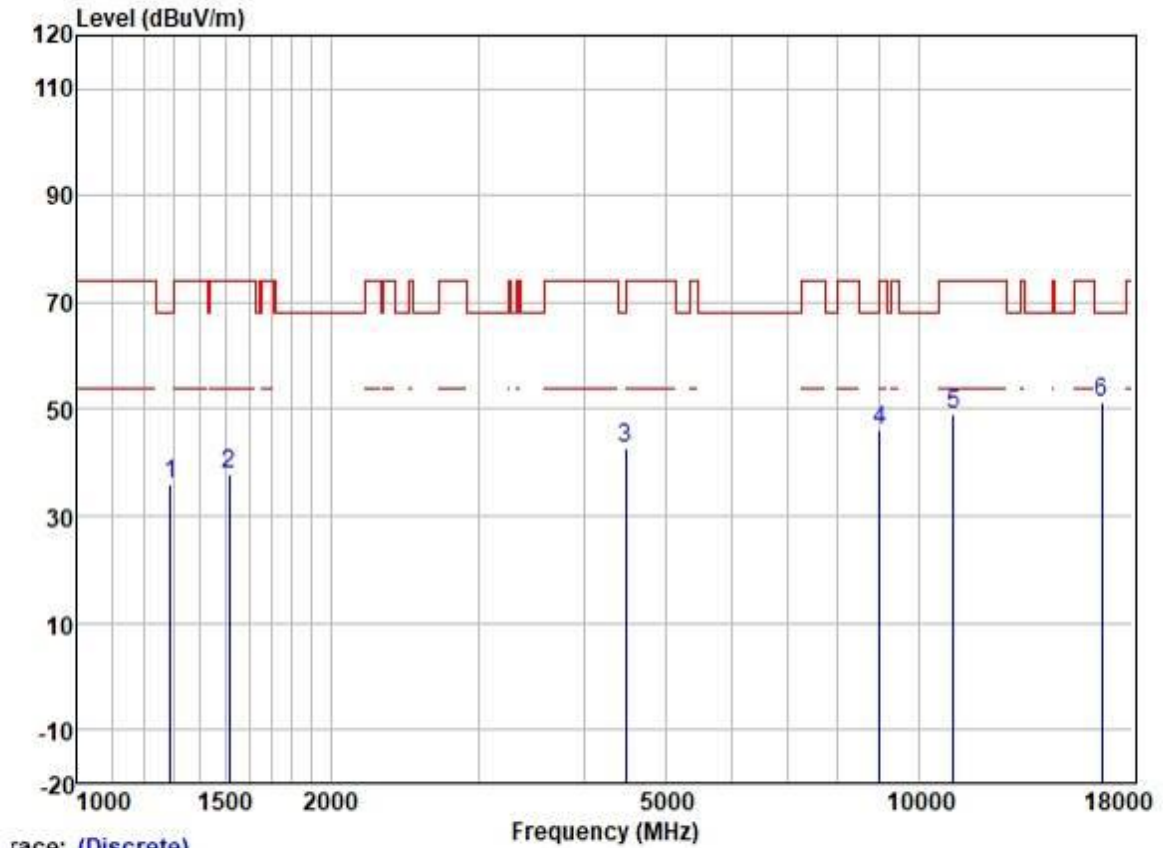
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1289.627	47.49	25.17	2.55	38.31	36.90	68.20	-31.30 VERTICAL peak
2	1398.336	47.62	25.39	2.60	38.22	37.39	74.00	-36.61 VERTICAL peak
3	4405.090	44.15	30.68	4.70	36.81	42.72	68.20	-25.48 VERTICAL peak
4	8995.123	38.60	37.40	7.56	37.50	46.06	68.20	-22.14 VERTICAL peak
5	11000.000	37.78	40.10	7.71	37.25	48.34	74.00	-25.66 VERTICAL peak
6	16500.000	36.76	39.60	9.44	35.38	50.42	68.20	-17.78 VERTICAL peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



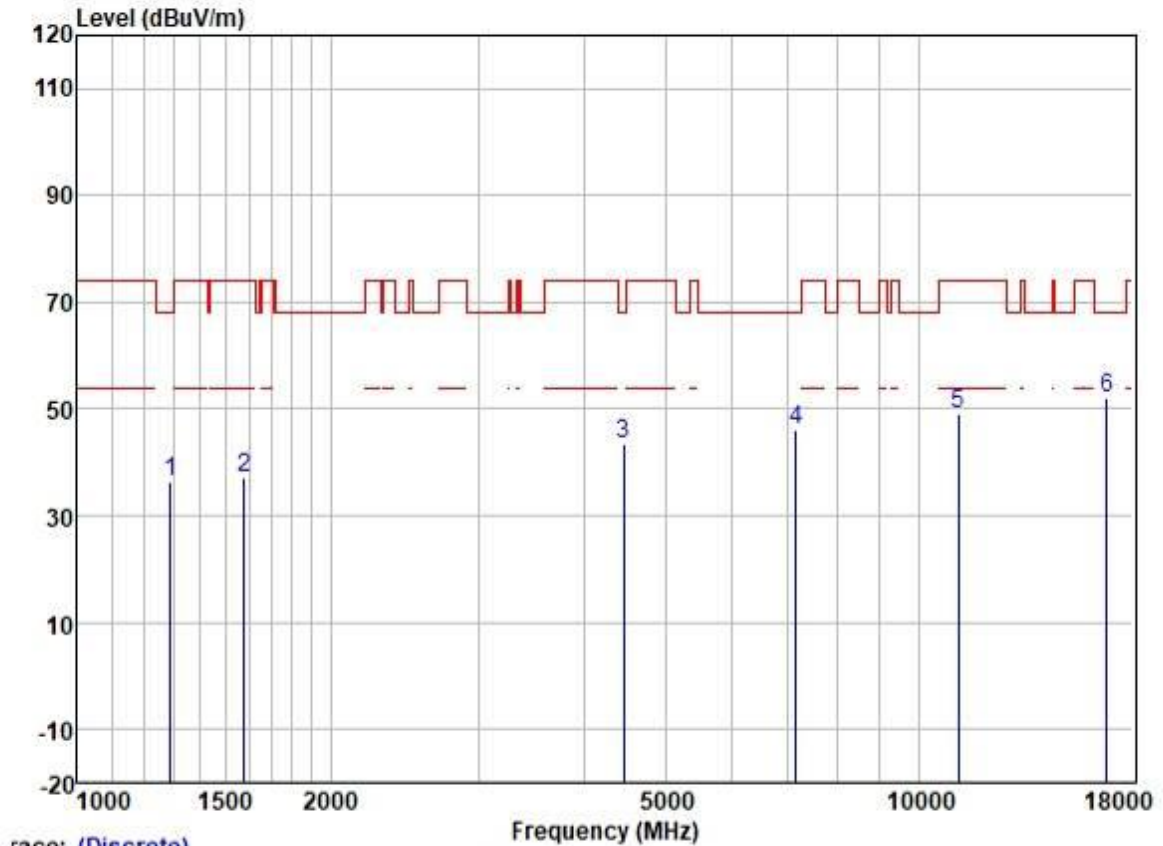
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	46.56	25.17	2.55	38.31	35.97	68.20	-32.23	HORIZONTAL	peak
2	1516.210	47.65	25.51	2.80	38.07	37.89	74.00	-36.11	HORIZONTAL	peak
3	4482.150	43.74	30.78	4.99	36.81	42.70	68.20	-25.50	HORIZONTAL	peak
4	8995.123	38.50	37.40	7.56	37.50	45.96	68.20	-22.24	HORIZONTAL	peak
5	11000.000	38.41	40.10	7.71	37.25	48.97	74.00	-25.03	HORIZONTAL	peak
6	16500.000	37.53	39.60	9.44	35.38	51.19	68.20	-17.01	HORIZONTAL	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



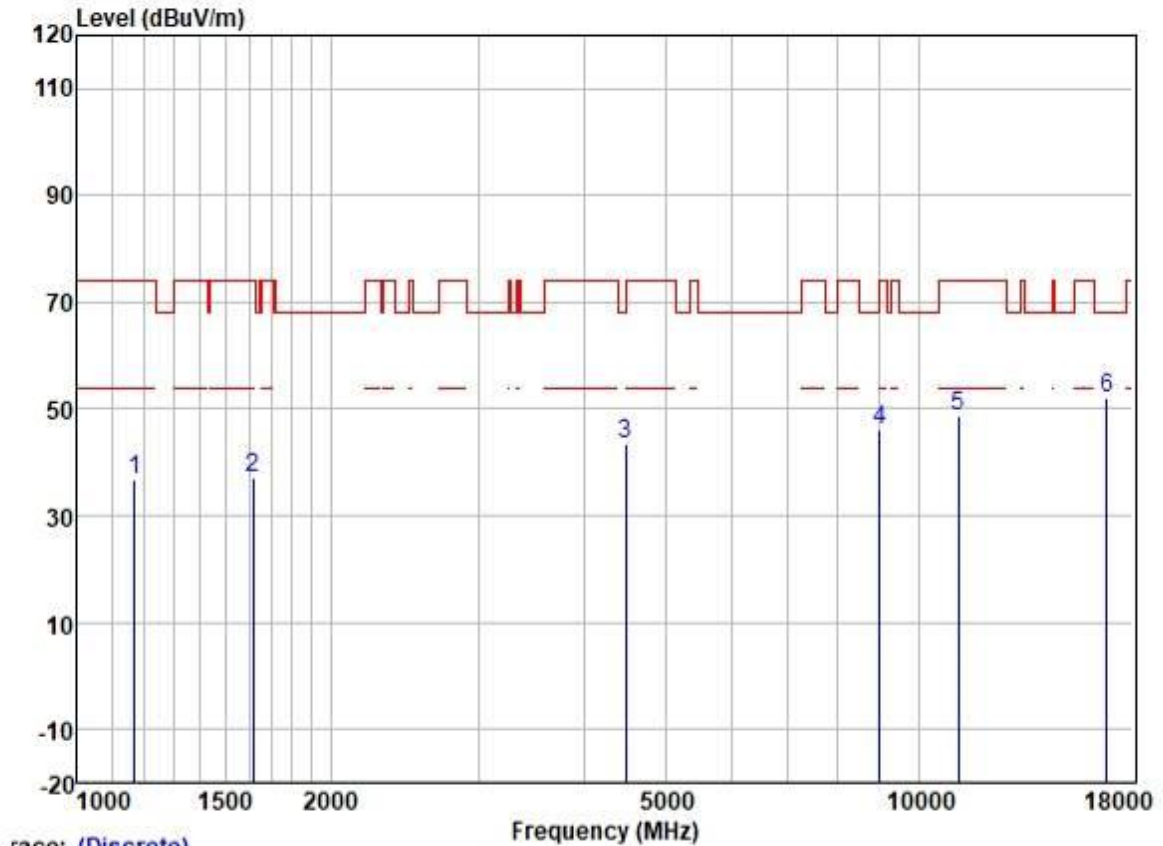
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1289.627	47.13	25.17	2.55	38.31	36.54	68.20	-31.66	VERTICAL peak
2	1578.822	46.94	25.56	2.80	38.00	37.30	74.00	-36.70	VERTICAL peak
3	4456.315	44.50	30.75	4.88	36.81	43.32	68.20	-24.88	VERTICAL peak
4	7158.806	41.91	35.40	5.94	37.35	45.90	68.20	-22.30	VERTICAL peak
5	11160.000	38.16	40.04	7.90	37.21	48.89	74.00	-25.11	VERTICAL peak
6	16740.000	37.53	40.49	9.41	35.37	52.06	68.20	-16.14	VERTICAL peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



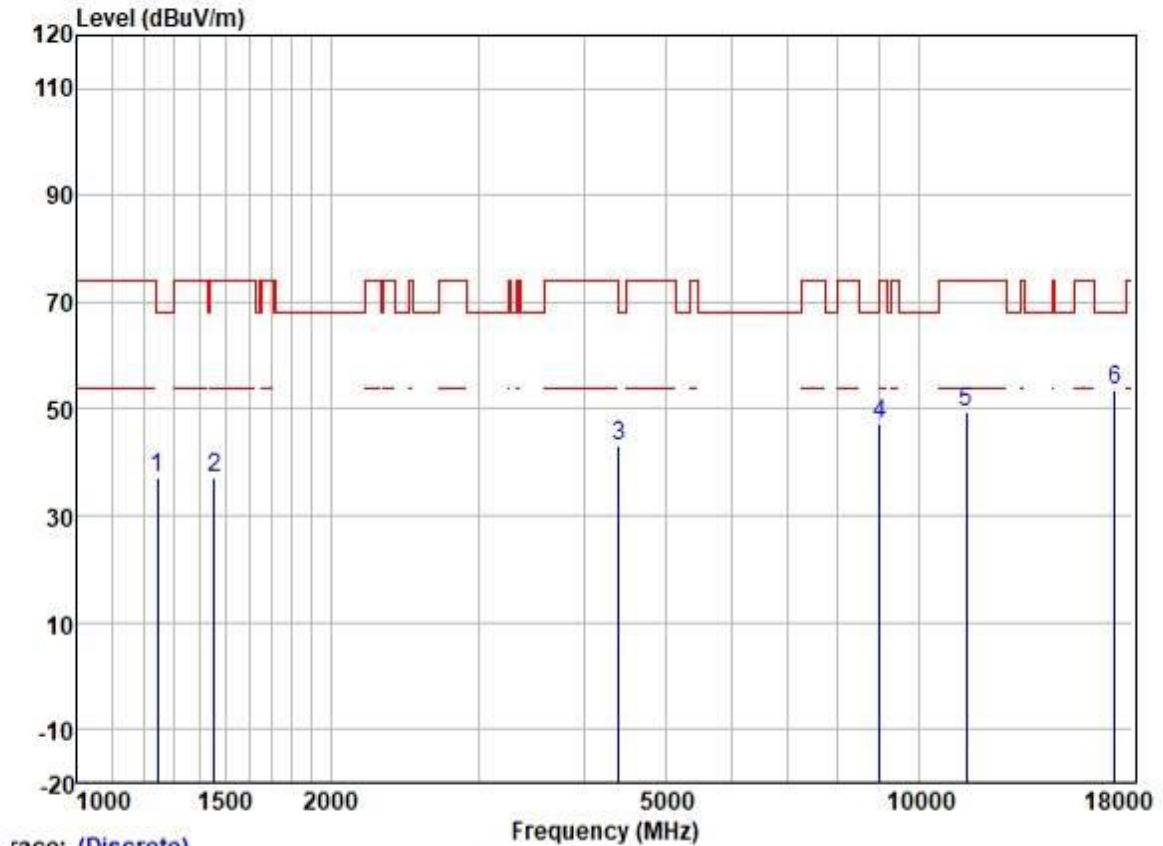
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1168.920	48.23	24.55	2.39	38.40	36.77	74.00	-37.23	HORIZONTAL peak
2	1615.754	46.68	25.60	2.80	37.95	37.13	74.00	-36.87	HORIZONTAL peak
3	4482.150	44.61	30.78	4.99	36.81	43.57	68.20	-24.63	HORIZONTAL peak
4	8995.123	38.71	37.40	7.56	37.50	46.17	68.20	-22.03	HORIZONTAL peak
5	11160.000	37.95	40.04	7.90	37.21	48.68	74.00	-25.32	HORIZONTAL peak
6	16740.000	37.39	40.49	9.41	35.37	51.92	68.20	-16.28	HORIZONTAL peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



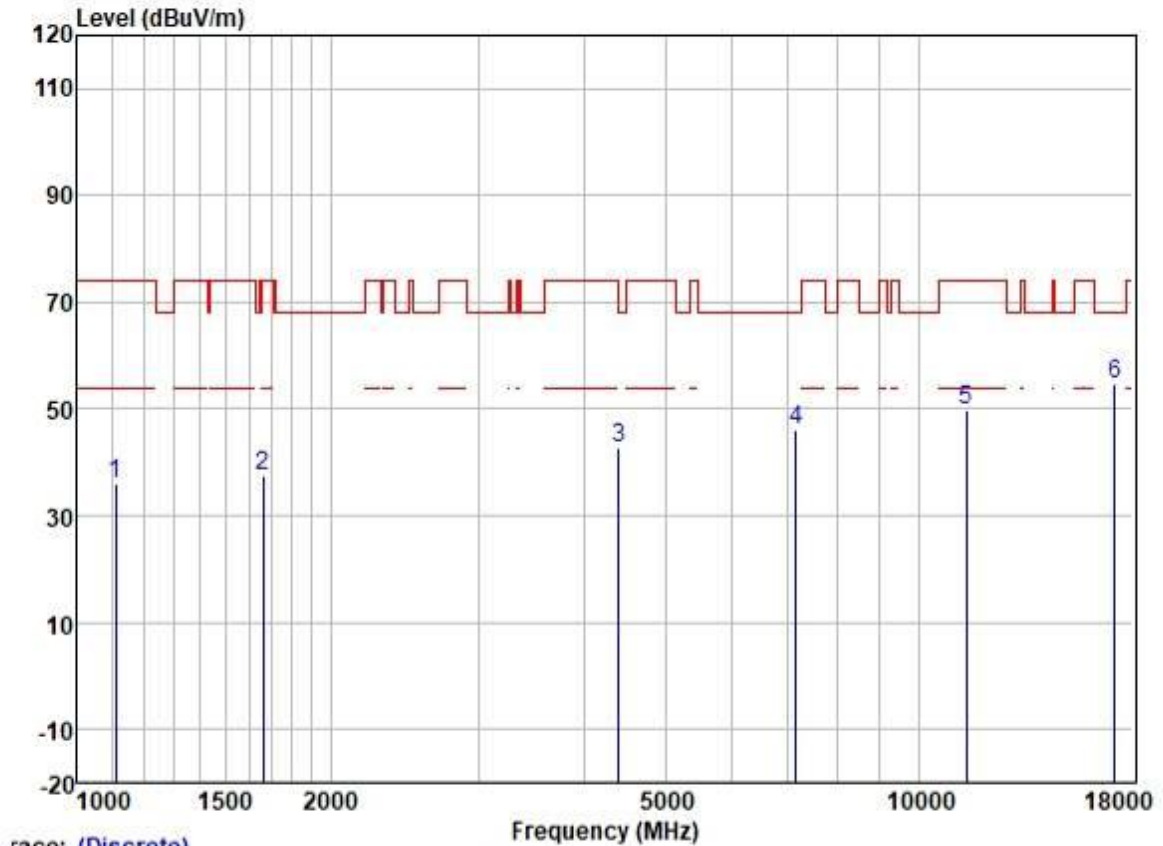
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1245.663	48.25	25.00	2.33	38.35	37.23	68.20	-30.97	VERTICAL peak
2	1456.081	47.15	25.46	2.72	38.17	37.16	74.00	-36.84	VERTICAL peak
3	4405.090	44.67	30.68	4.70	36.81	43.24	68.20	-24.96	VERTICAL peak
4	8995.123	39.59	37.40	7.56	37.50	47.05	68.20	-21.15	VERTICAL peak
5	11400.000	38.21	39.94	8.28	37.16	49.27	74.00	-24.73	VERTICAL peak
6	17100.000	36.79	42.32	9.63	35.34	53.40	68.20	-14.80	VERTICAL peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



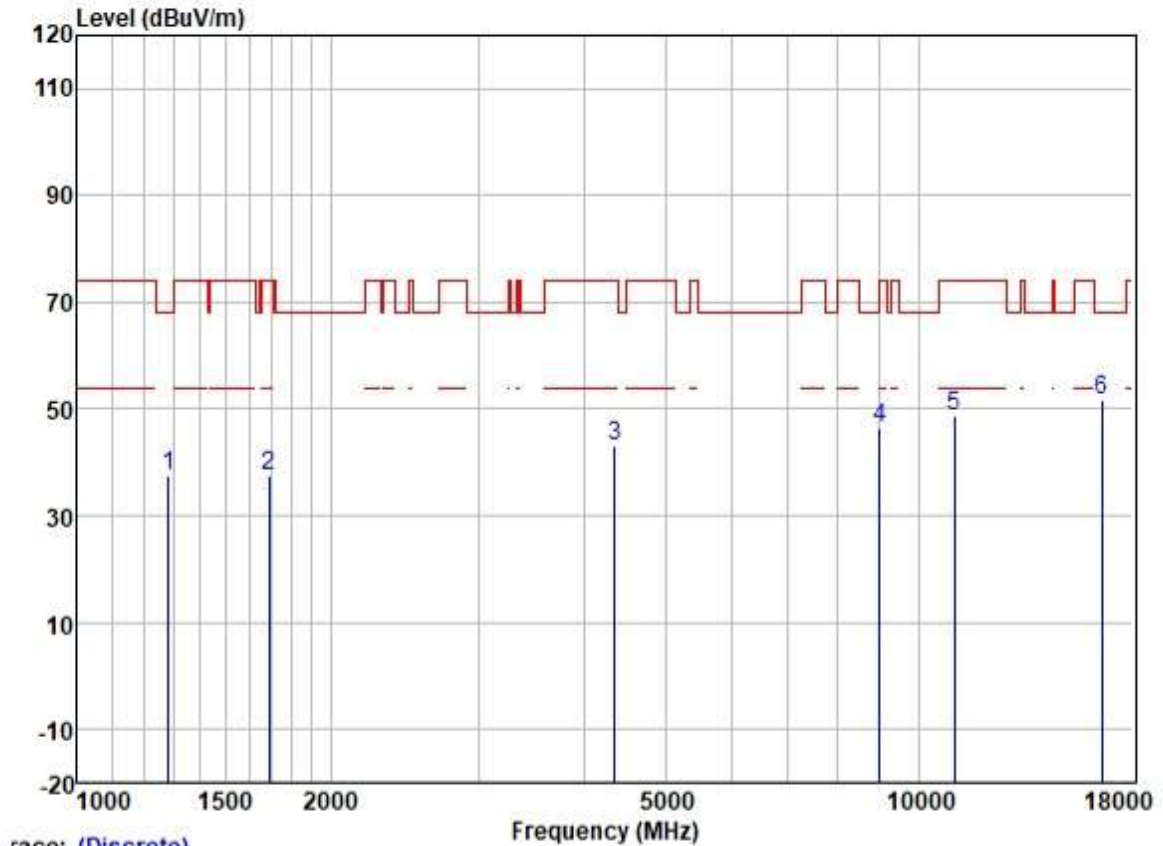
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1109.660	47.68	24.39	2.27	38.45	74.00	-38.11	HORIZONTAL peak
2	1663.137	46.97	25.65	2.80	37.91	74.00	-36.49	HORIZONTAL peak
3	4405.090	44.33	30.68	4.70	36.81	68.20	-25.30	HORIZONTAL peak
4	7158.806	42.13	35.40	5.94	37.35	68.20	-22.08	HORIZONTAL peak
5	11400.000	38.66	39.94	8.28	37.16	74.00	-24.28	HORIZONTAL peak
6	17100.000	37.92	42.32	9.63	35.34	68.20	-13.67	HORIZONTAL peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



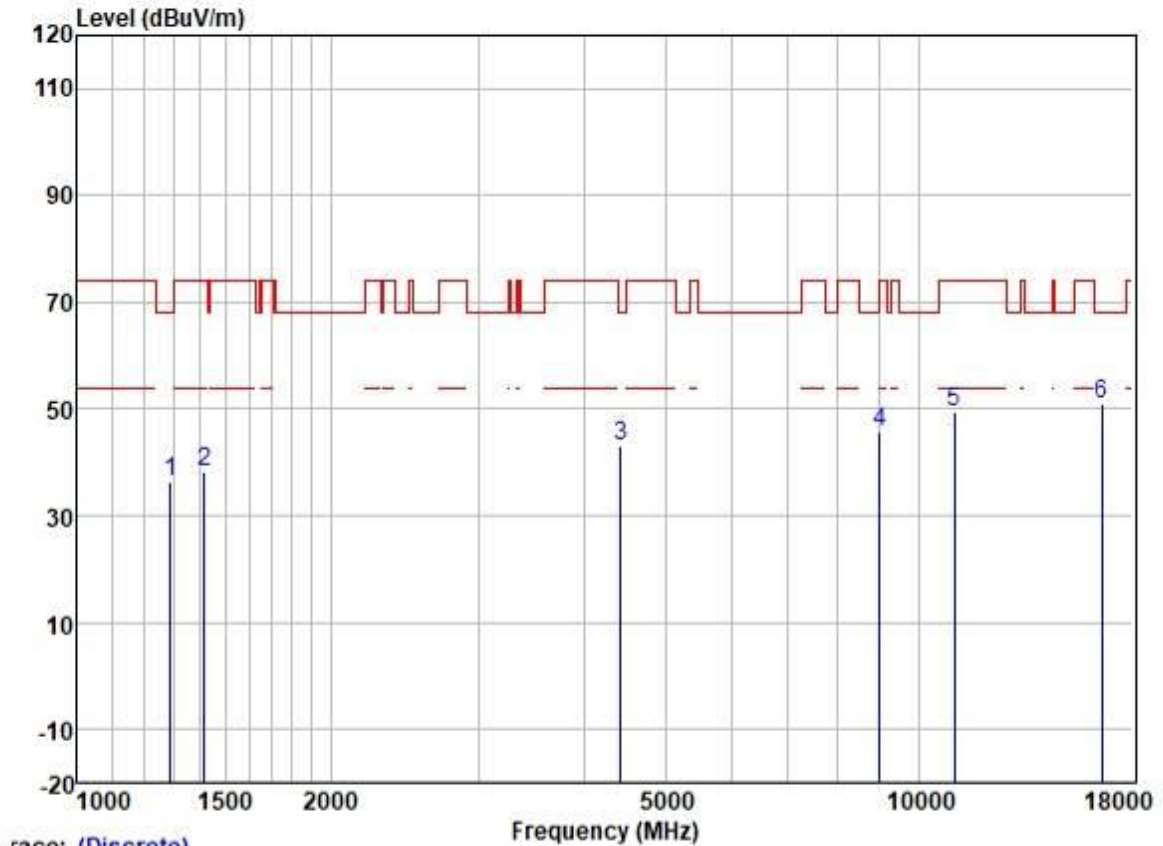
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1282.193	48.05	25.15	2.52	38.33	37.39	68.20	-30.81	VERTICAL peak
2	1692.231	46.90	25.70	2.80	37.89	37.51	74.00	-36.49	VERTICAL peak
3	4354.454	44.62	30.59	4.68	36.81	43.08	74.00	-30.92	VERTICAL peak
4	8995.123	38.83	37.40	7.56	37.50	46.29	68.20	-21.91	VERTICAL peak
5	11020.000	38.15	40.10	7.71	37.24	48.72	74.00	-25.28	VERTICAL peak
6	16530.000	37.85	39.76	9.44	35.38	51.67	68.20	-16.53	VERTICAL peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



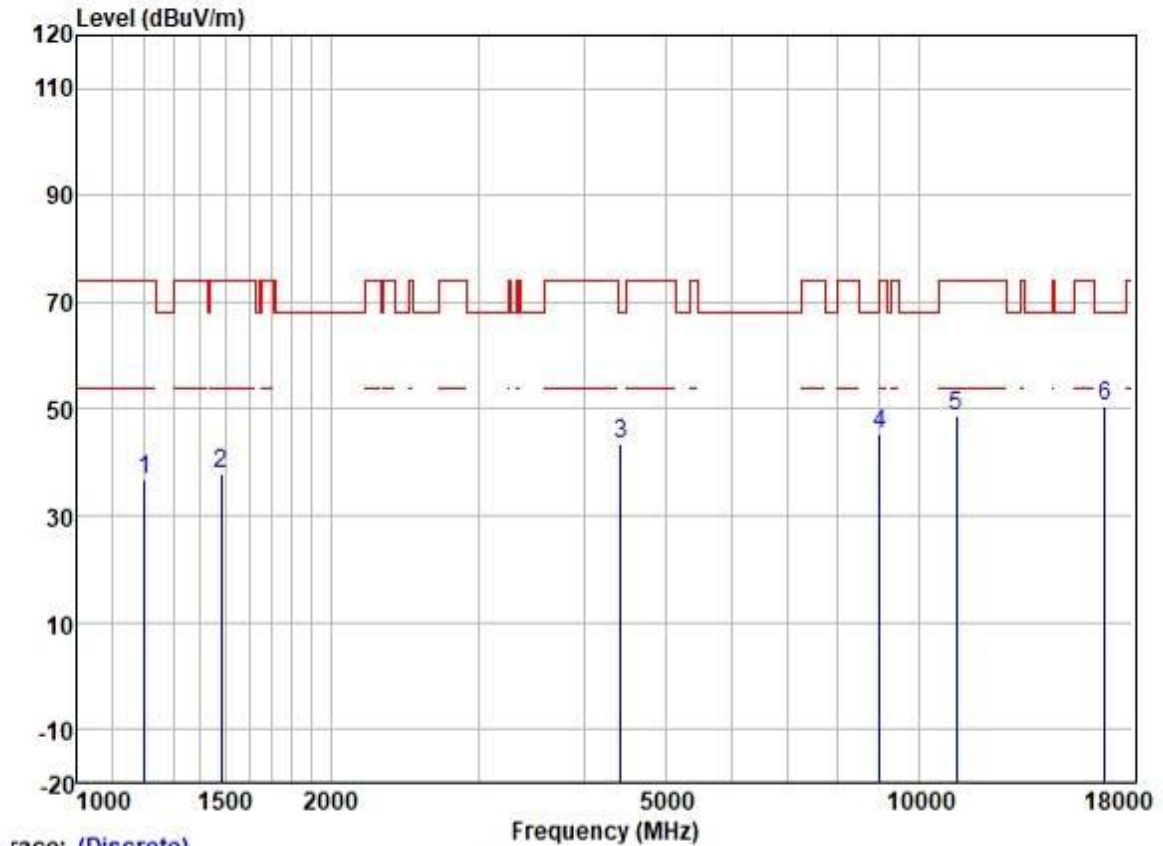
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1289.627	46.88	25.17	2.55	38.31	36.29	68.20	-31.91	HORIZONTAL peak
2	1414.597	48.30	25.41	2.63	38.20	38.14	74.00	-35.86	HORIZONTAL peak
3	4430.628	44.43	30.72	4.78	36.81	43.12	68.20	-25.08	HORIZONTAL peak
4	8995.123	38.27	37.40	7.56	37.50	45.73	68.20	-22.47	HORIZONTAL peak
5	11020.000	38.95	40.10	7.71	37.24	49.52	74.00	-24.48	HORIZONTAL peak
6	16530.000	37.09	39.76	9.44	35.38	50.91	68.20	-17.29	HORIZONTAL peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



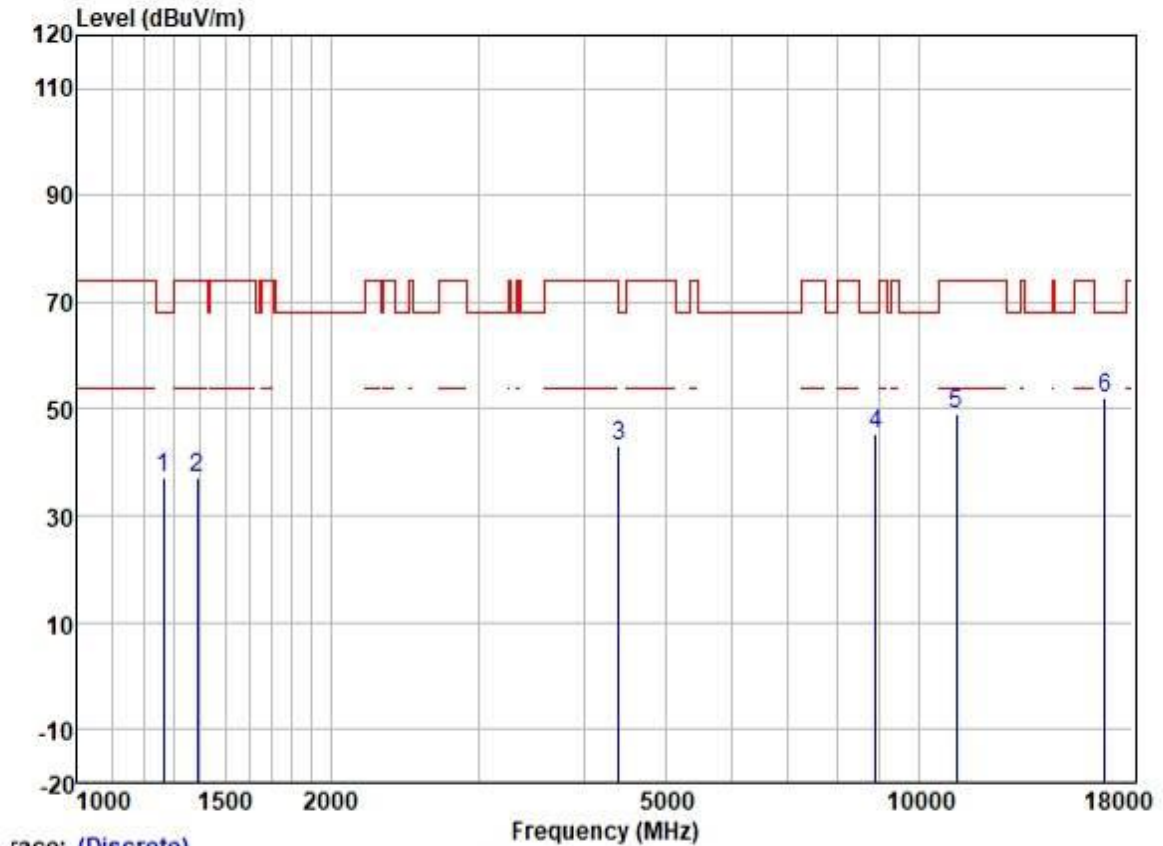
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	48.02	24.70	2.34	38.39	36.67	74.00	-37.33	VERTICAL peak
2	1481.553	47.61	25.48	2.77	38.13	37.73	74.00	-36.27	VERTICAL peak
3	4430.628	44.72	30.72	4.78	36.81	43.41	68.20	-24.79	VERTICAL peak
4	8995.123	37.96	37.40	7.56	37.50	45.42	68.20	-22.78	VERTICAL peak
5	11100.000	38.14	40.07	7.82	37.22	48.81	74.00	-25.19	VERTICAL peak
6	16650.000	36.41	40.10	9.43	35.38	50.56	68.20	-17.64	VERTICAL peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Trace: (Discrete)

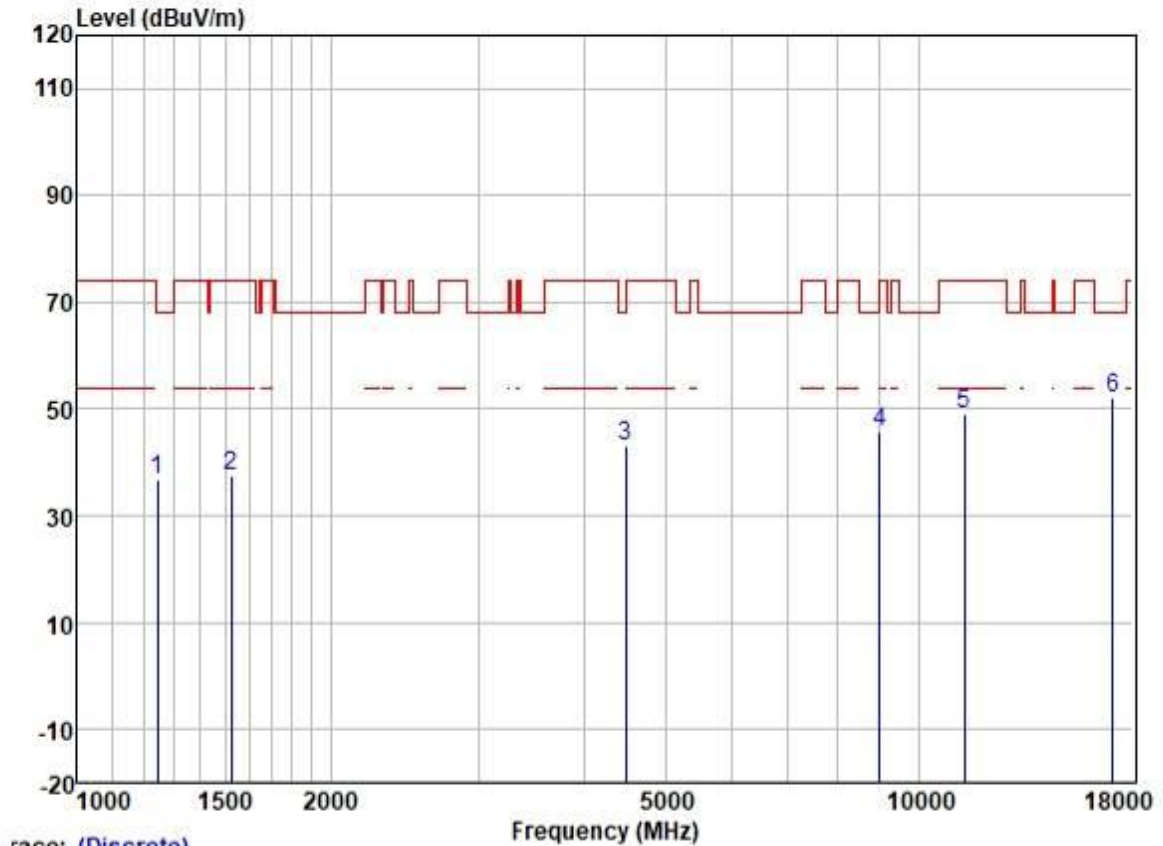
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	48.07	25.10	2.44	38.33	37.28	68.20	-30.92	HORIZONTAL peak
2	1390.276	47.38	25.38	2.60	38.22	37.14	74.00	-36.86	HORIZONTAL peak
3	4405.090	44.37	30.68	4.70	36.81	42.94	68.20	-25.26	HORIZONTAL peak
4	8891.725	38.05	37.37	7.42	37.52	45.32	68.20	-22.88	HORIZONTAL peak
5	11100.000	38.33	40.07	7.82	37.22	49.00	74.00	-25.00	HORIZONTAL peak
6	16650.000	37.74	40.10	9.43	35.38	51.89	68.20	-16.31	HORIZONTAL peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1245.663	47.76	25.00	2.33	38.35	36.74	68.20	-31.46 VERTICAL peak
2	1525.000	47.26	25.52	2.80	38.07	37.51	74.00	-36.49 VERTICAL peak
3	4482.150	43.98	30.78	4.99	36.81	42.94	68.20	-25.26 VERTICAL peak
4	8995.123	38.23	37.40	7.56	37.50	45.69	68.20	-22.51 VERTICAL peak
5	11340.000	37.93	39.97	8.18	37.17	48.91	74.00	-25.09 VERTICAL peak
6	17010.000	36.44	41.75	9.39	35.35	52.23	68.20	-15.97 VERTICAL peak



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