

TEST REPORT

Application No.: GZCR2401000075AT
Applicant: DOREL JUVENILE GROUP
Address of Applicant: 2525 State Street Columbus Indiana United States
Manufacturer: DOREL JUVENILE GROUP
Address of Manufacturer: 2525 State Street Columbus Indiana United States
Factory: Kaixin Guangdian Company Limited. Dongguan branch
Address of Factory: Room 501, Building 1, Xuyu Science Park, No.1 Xuyu Road, Chang'an Town, Dongguan City, Guangdong Province. China
Product Name: CryAssist Audio Monitor
Model No.: MO191
Trade Mark: MAXI·COSI
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-01-18
Date of Test: 2024-01-22 to 2024-03-06
Date of Issue: 2024-03-18

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

Ricky Liu

Ricky Liu
Manager



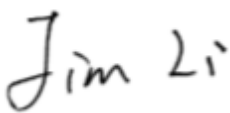
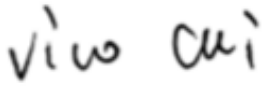
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Guangzhou Branch, Testing Center EMC Laboratory

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR240100007504	2024-03-18	Original

Authorized for issue by			
			
		Jim Li/Project Engineer	
			
		Vico Cui/Reviewer	

2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	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 E 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 E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 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 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

Note:

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

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



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Guangzhou Branch Testing Center EEC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Guangzhou Branch EMC/CEC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5 V powered by AC/DC adapter as below: Model: MYX-0501500LUS Input: AC 100-240 V, 50/60Hz, 0.5A max Output: DC 5 V, 1.5 A Test Voltage: AC 120 V, 60 Hz
Cable(s):	For main unit: DC input ports For AC/DC adapter: AC plug; DC output cables (Unshielded, 1.4m)
Operation Frequency/Number of channels (20MHz):	5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-2C: 5510-5670MHz (5 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	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/ac 20: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac 80: 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Integral Antenna
Antenna Gain:	4.07 dBi max according to antenna specification
Antenna Number:	1

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.76dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions (Below 1GHz)	±5.00dB (3m); ±4.38dB (10m)
Radiated Emissions (Above 1GHz)	±5.12 dB (1GHz-6 GHz); ±5.38 dB (6GHz-18GHz); ±5.61(18GHz-40GHz)
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 5.12dB (1GHz-6GHz);± 5.38dB (6GHz-18GHz);± 5.61dB (18GHz-40GHz)
Frequency Stability	± 7.25 x 10 ⁻⁸
Remark: The U _{lab} (lab Uncertainty) is less than U _{ETSI} (ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
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Tel: +86 20 82155555

No tests were sub-contracted.



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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4.5 Test Facility

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

● 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.

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

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

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

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

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

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

● CBTL (Lab Code: TL129)

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

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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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
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-04	2024-08-03
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2023-09-08	2024-09-07
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2023-05-19	2024-05-18
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A

26dB Emission bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A



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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
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2023-04-13	2024-04-12
TRILOG Broadband Antenna (25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05



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Guangzhou Branch Testing Center EEC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2023-11-10	2024-11-09
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2023-07-19	2024-07-18
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2023-08-21	2024-08-20
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2023-11-10	2024-11-09
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2023-08-21	2024-08-20
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2023-06-29	2024-06-28

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. EUT Antenna: The antenna is integrated on the main PCB and no consideration of replacement.

The best case gain of the Antenna: 4.07 dBi max according to antenna specification.

Antenna location: Refer to internal photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Conclusion

Standard Requirement: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met. EUT Details: WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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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 & Subpart E 15.407 b(9)

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C

Humidity: 40.2 % RH

Atmospheric Pressure: 1021 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.



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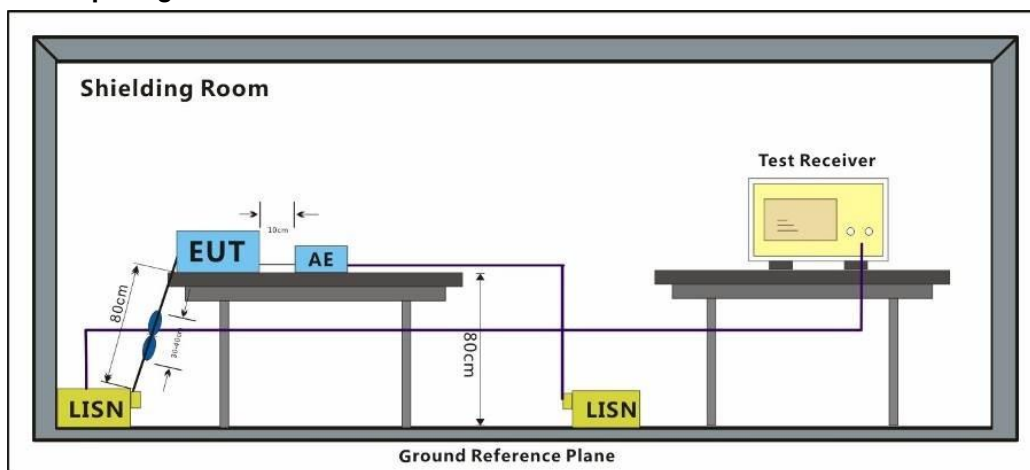
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Guangzhou Branch EMC/RF/EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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7.1.3 Test Setup Diagram

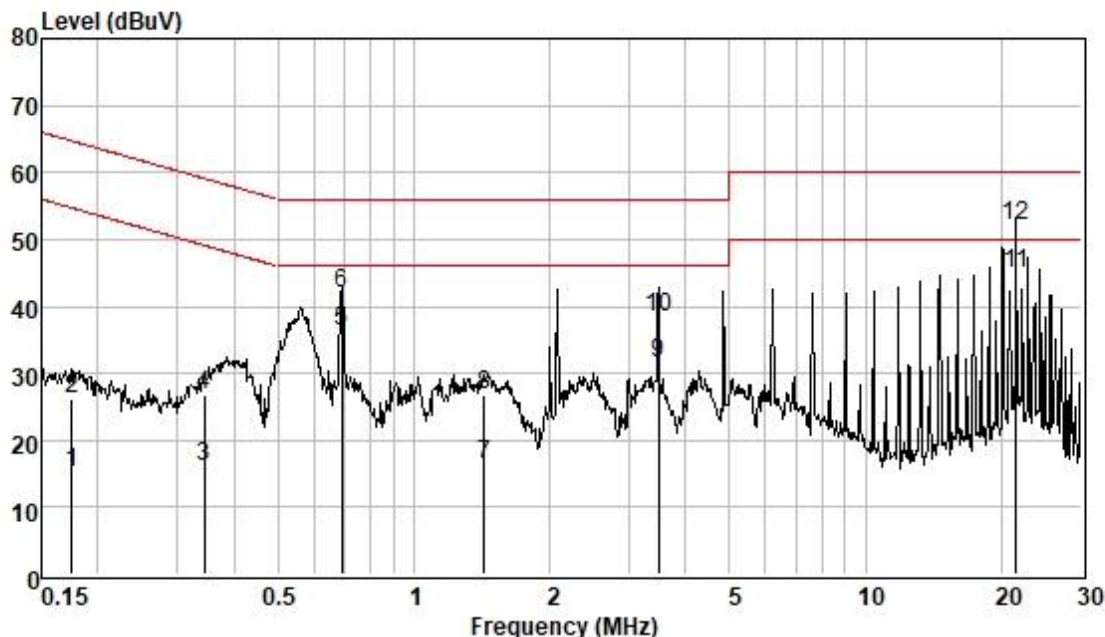


7.1.4 Measurement Procedure and Data

- 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: 05; Line: Live line



Pol :LINE
Mode :
Model :
Power :

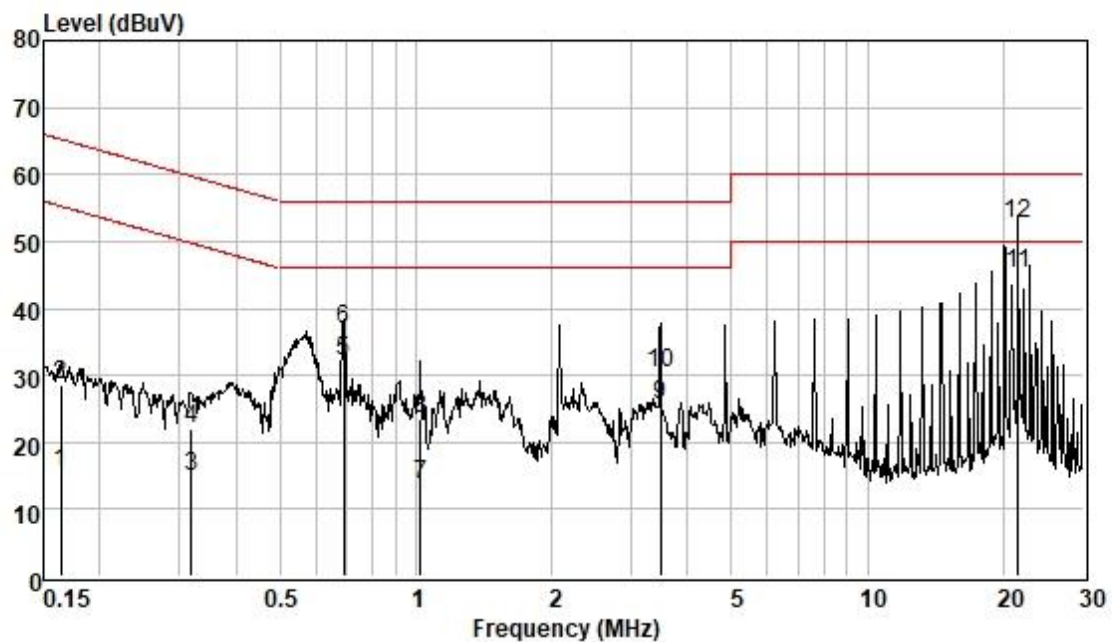
	Frequeunc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.175	5.73	0.04	9.55	15.32	54.72	-39.40	Average
2	0.175	16.47	0.04	9.55	26.06	64.72	-38.66	QP
3	0.345	6.46	0.05	9.57	16.08	49.09	-33.01	Average
4	0.345	17.21	0.05	9.57	26.83	59.09	-32.26	QP
5	0.694	26.62	0.06	9.57	36.25	46.00	-9.75	Average
6	0.694	32.44	0.06	9.57	42.07	56.00	-13.93	QP
7	1.433	6.62	0.10	9.56	16.28	46.00	-29.72	Average
8	1.433	16.97	0.10	9.56	26.63	56.00	-29.37	QP
9	3.472	21.81	0.17	9.59	31.57	46.00	-14.43	Average
10	3.472	28.47	0.17	9.59	38.23	56.00	-17.77	QP
11	21.486	34.52	0.40	9.86	44.78	50.00	-5.22	Average
12	21.486	41.93	0.40	9.86	52.19	60.00	-7.81	QP



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Test Mode: 05; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.164	5.87	0.04	9.52	15.43	55.25	-39.82	Average
2	0.164	19.04	0.04	9.52	28.60	65.25	-36.65	QP
3	0.318	5.31	0.04	9.53	14.88	49.75	-34.87	Average
4	0.318	12.43	0.04	9.53	22.00	59.75	-37.75	QP
5	0.694	22.39	0.06	9.55	32.00	46.00	-14.00	Average
6	0.694	27.32	0.06	9.55	36.93	56.00	-19.07	QP
7	1.027	4.14	0.07	9.55	13.76	46.00	-32.24	Average
8	1.027	13.81	0.07	9.55	23.43	56.00	-32.57	QP
9	3.472	15.90	0.17	9.58	25.65	46.00	-20.35	Average
10	3.472	20.47	0.17	9.58	30.22	56.00	-25.78	QP
11	21.486	34.73	0.40	9.93	45.06	50.00	-4.94	Average
12	21.486	42.23	0.40	9.93	52.56	60.00	-7.44	QP



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C

Humidity: 57.0 % RH

Atmospheric Pressure: 1014 mbar

7.2.2 Test Mode Description

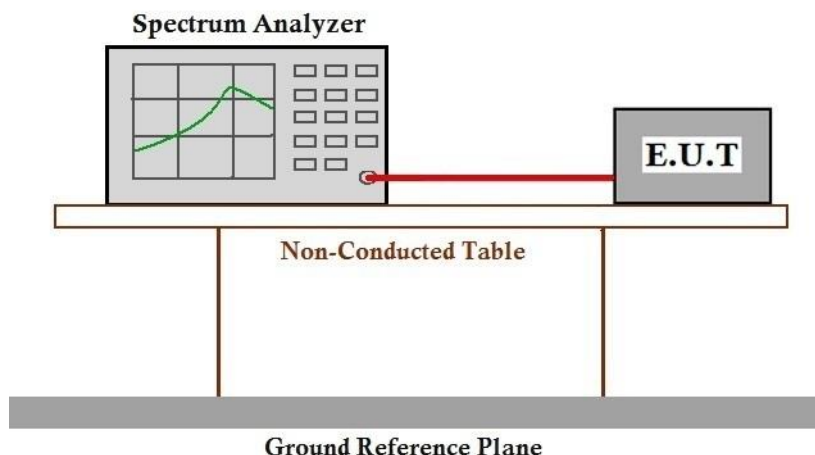
Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.



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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.3 99% Bandwidth

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

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 20.3 °C Humidity: 57.0 % RH Atmospheric Pressure: 1014 mbar

7.3.2 Test Mode Description

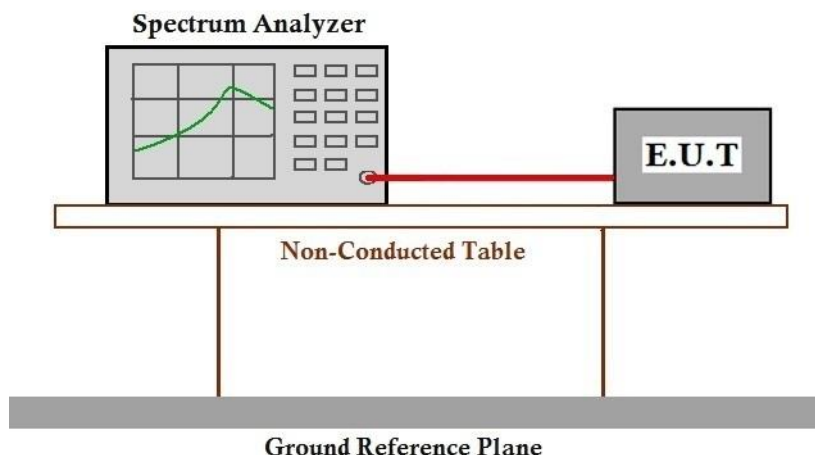
Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, 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

7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

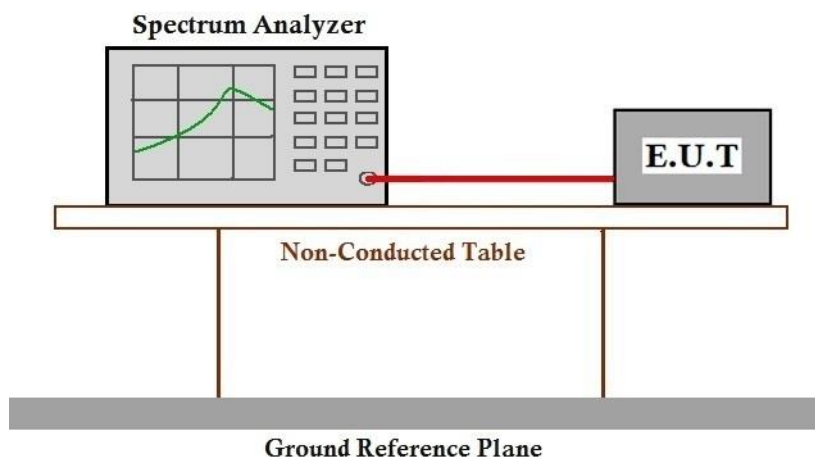
Operating Environment:

Temperature: 20.3 °C Humidity: 57.0 % RH Atmospheric Pressure: 1014 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Test Requirement 47 CFR Part 15, Subpart E 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: 20.3 °C

Humidity: 57.0 % RH

Atmospheric Pressure: 1014 mbar

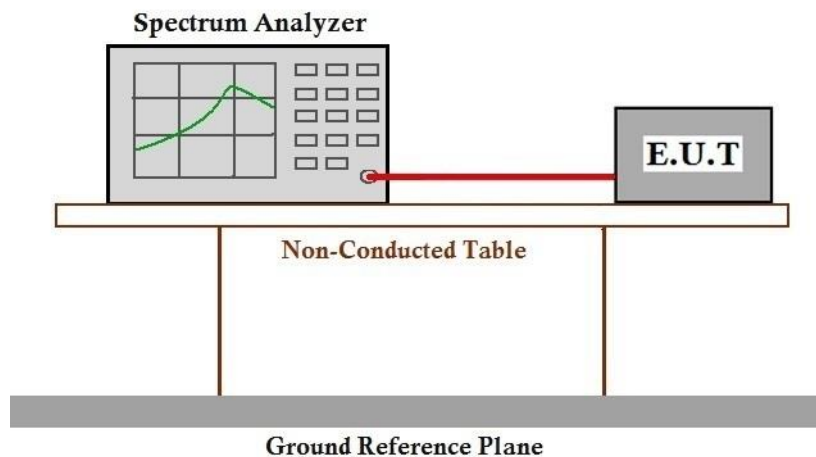
7.5.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Final test 08

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/ac 20/40/80, 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 E 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) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) 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: 20.3 °C

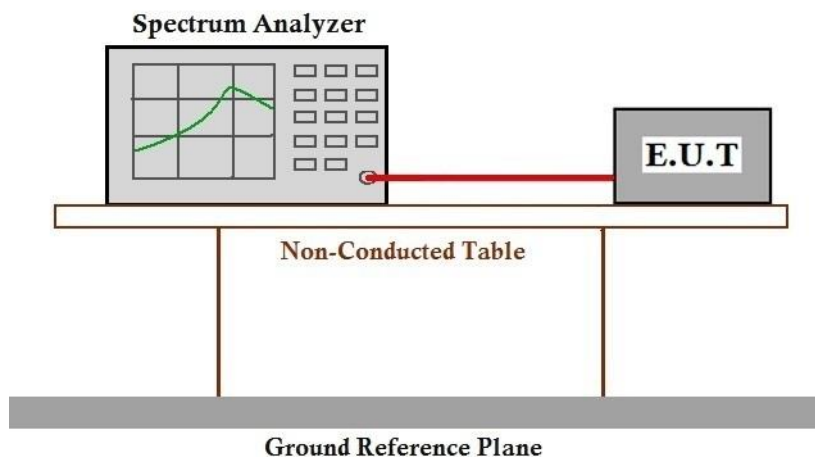
Humidity: 57.0 % RH

Atmospheric Pressure: 1014 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 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: 20.3 °C

Humidity: 57.0 % RH

Atmospheric Pressure: 1014 mbar

7.7.2 Test Mode Description

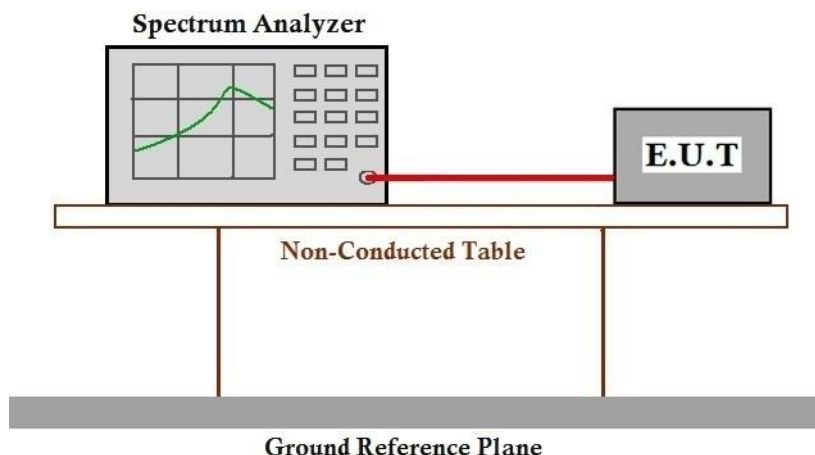
Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.



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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 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
960-1000	500	3

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 42.6 % RH

Atmospheric Pressure: 1021 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.



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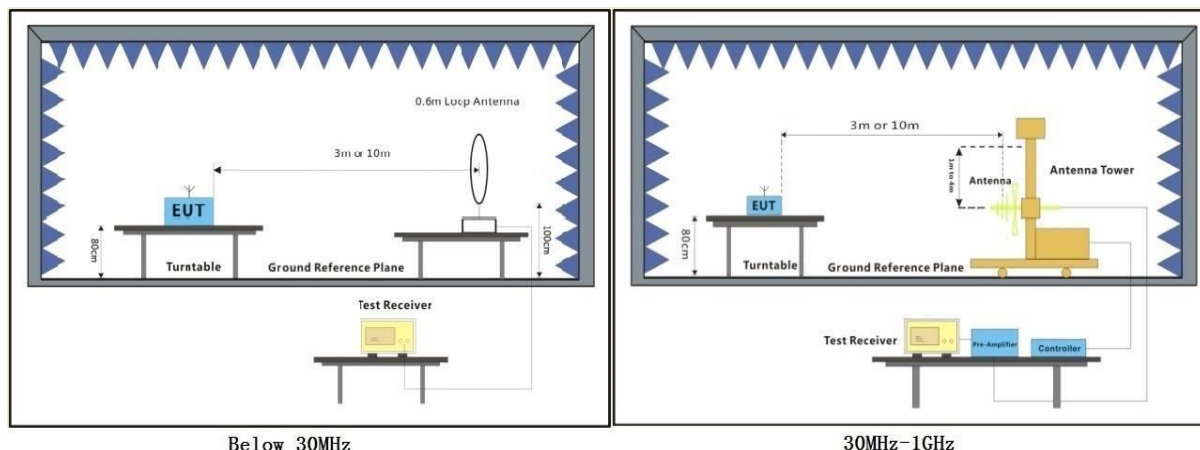
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7.8.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

7.8.4 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 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, 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.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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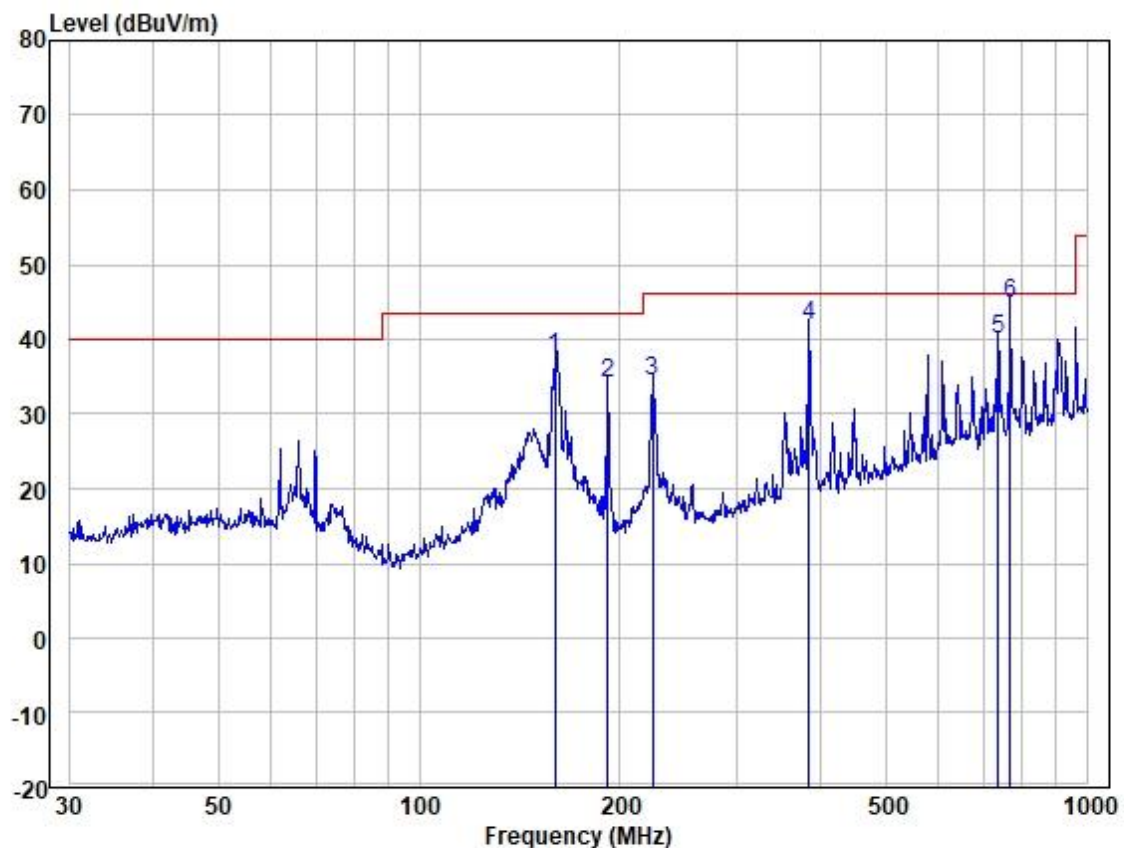
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Test Mode: 05; Polarity: Horizontal



Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

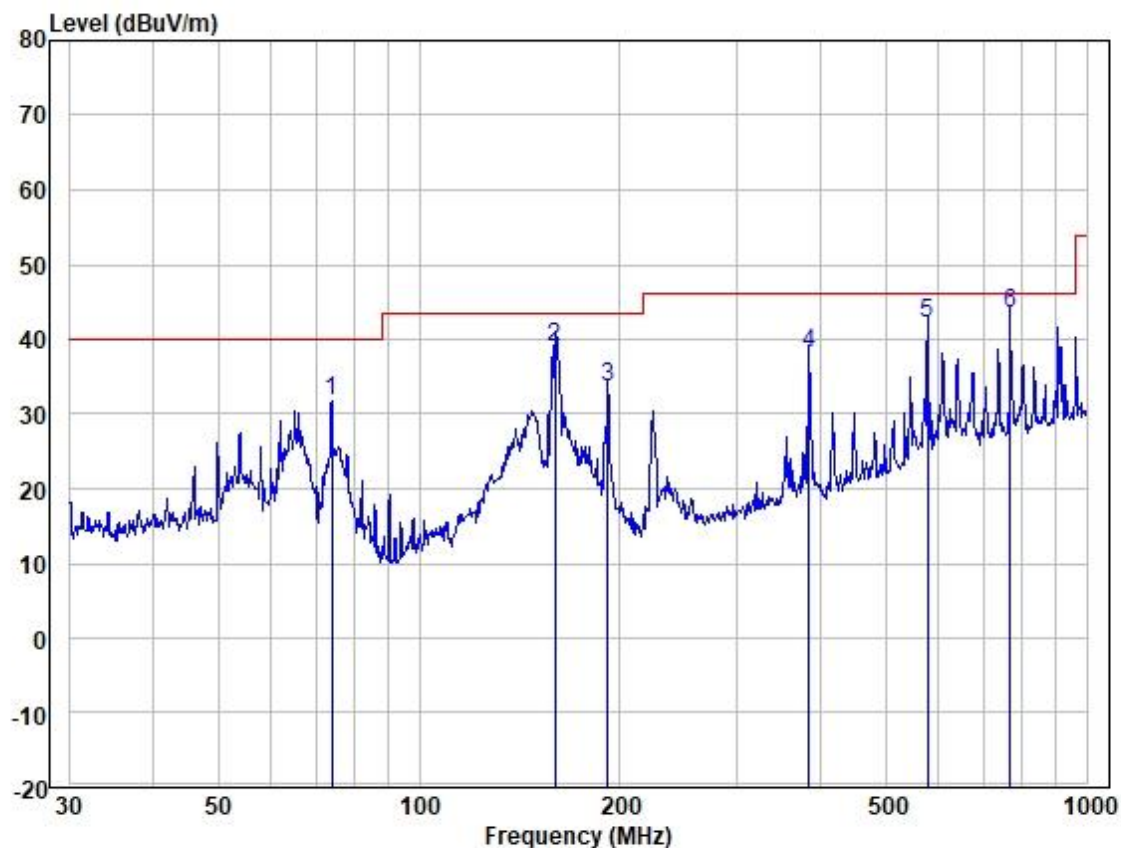
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	159.784	50.46	19.21	0.70	32.80	37.57	43.52	-5.95	HORIZONTAL	QP
2	191.745	49.88	16.14	0.78	32.80	34.00	43.52	-9.52	HORIZONTAL	QP
3	223.733	50.41	15.90	0.82	32.80	34.33	46.02	-11.69	HORIZONTAL	QP
4	383.932	52.31	21.12	1.14	32.80	41.77	46.02	-4.25	HORIZONTAL	QP
5	737.071	43.42	27.61	1.57	32.59	40.01	46.02	-6.01	HORIZONTAL	QP
6	768.748	47.30	28.30	1.64	32.38	44.86	46.02	-1.16	HORIZONTAL	QP



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Test Mode: 05; Polarity: Vertical



Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	74.135	47.86	16.25	0.48	32.80	31.79	40.00	-8.21	VERTICAL	QP
2	159.784	51.88	19.21	0.70	32.80	38.99	43.52	-4.53	VERTICAL	QP
3	191.745	49.57	16.14	0.78	32.80	33.69	43.52	-9.83	VERTICAL	QP
4	383.932	48.80	21.12	1.14	32.80	38.26	46.02	-7.76	VERTICAL	QP
5	576.644	48.31	25.21	1.41	32.90	42.03	46.02	-3.99	VERTICAL	QP
6	768.748	45.84	28.30	1.64	32.38	43.40	46.02	-2.62	VERTICAL	QP



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7.9 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	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: 18.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1021 mbar



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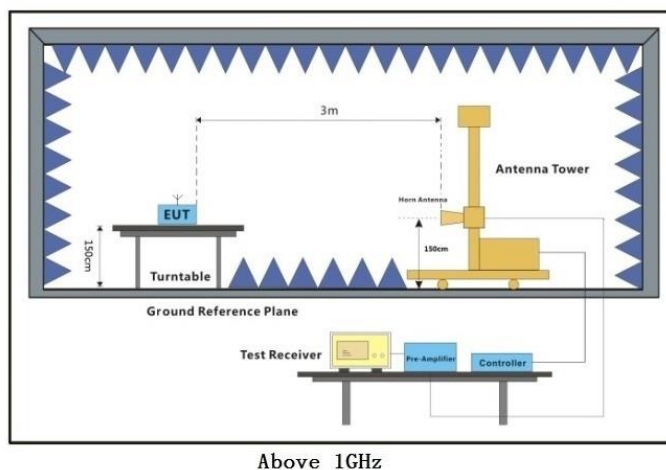
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Above 1GHz

7.9.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz 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.
3. 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.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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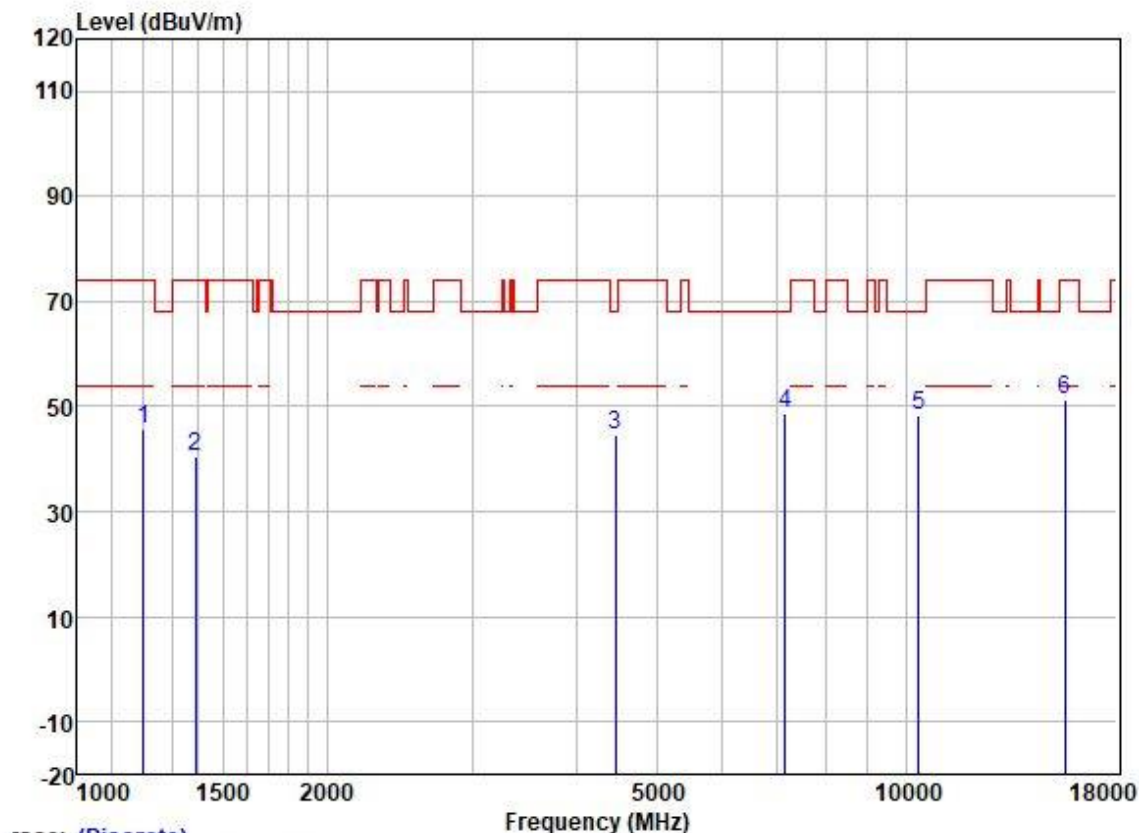
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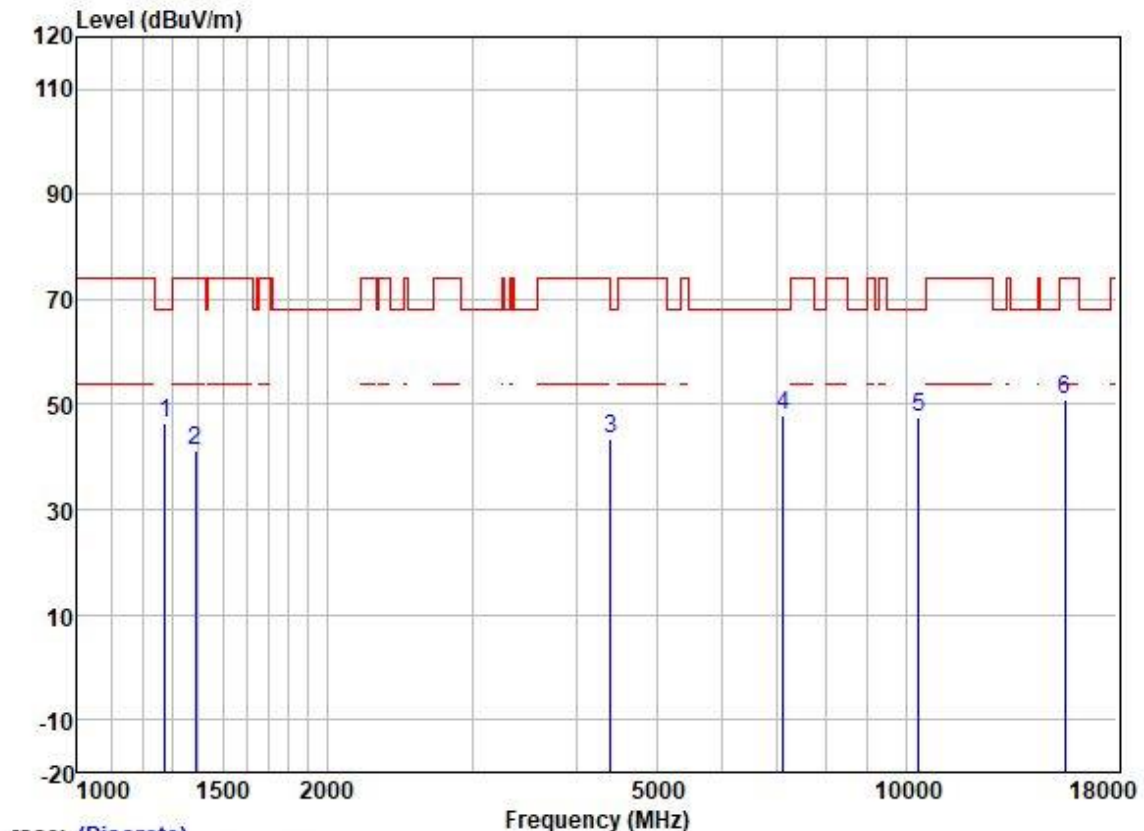
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	55.02	25.90	2.57	37.64	45.85	74.00	-28.15	VERTICAL peak
2	1390.276	49.53	25.76	2.88	37.57	40.60	74.00	-33.40	VERTICAL peak
3	4456.315	44.73	31.77	4.79	36.63	44.66	68.20	-23.54	VERTICAL peak
4	7158.806	42.04	36.61	7.00	36.93	48.72	68.20	-19.48	VERTICAL peak
5	10360.000	38.50	38.72	7.74	36.78	48.18	68.20	-20.02	VERTICAL peak
6	15540.000	37.46	38.91	11.29	36.51	51.15	74.00	-22.85	VERTICAL peak



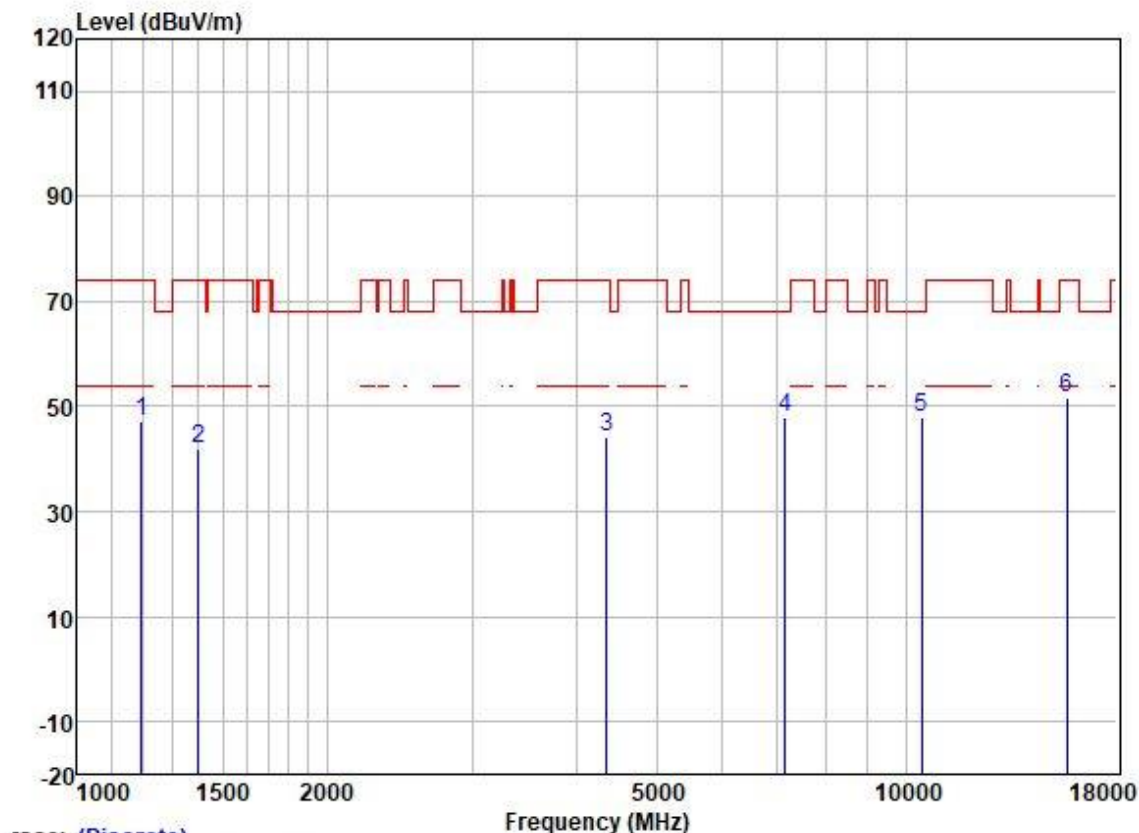
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1274.802	55.29	25.98	2.76	37.62	46.41	68.20	-21.79	HORIZONTAL peak
2	1390.276	50.23	25.76	2.88	37.57	41.30	74.00	-32.70	HORIZONTAL peak
3	4405.090	43.69	31.77	4.79	36.62	43.63	68.20	-24.57	HORIZONTAL peak
4	7117.542	41.25	36.47	7.04	36.92	47.84	68.20	-20.36	HORIZONTAL peak
5	10360.000	37.93	38.72	7.74	36.78	47.61	68.20	-20.59	HORIZONTAL peak
6	15540.000	37.39	38.91	11.29	36.51	51.08	74.00	-22.92	HORIZONTAL peak



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



	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	56.46	25.89	2.55	37.64	47.26	74.00	-26.74	VERTICAL peak
2	1398.336	50.93	25.74	2.89	37.56	42.00	74.00	-32.00	VERTICAL peak
3	4354.454	44.35	31.69	4.80	36.62	44.22	74.00	-29.78	VERTICAL peak
4	7158.806	41.29	36.61	7.00	36.93	47.97	68.20	-20.23	VERTICAL peak
5	10440.000	38.38	38.70	7.76	36.77	48.07	68.20	-20.13	VERTICAL peak
6	15660.000	38.27	38.71	11.32	36.57	51.73	74.00	-22.27	VERTICAL peak



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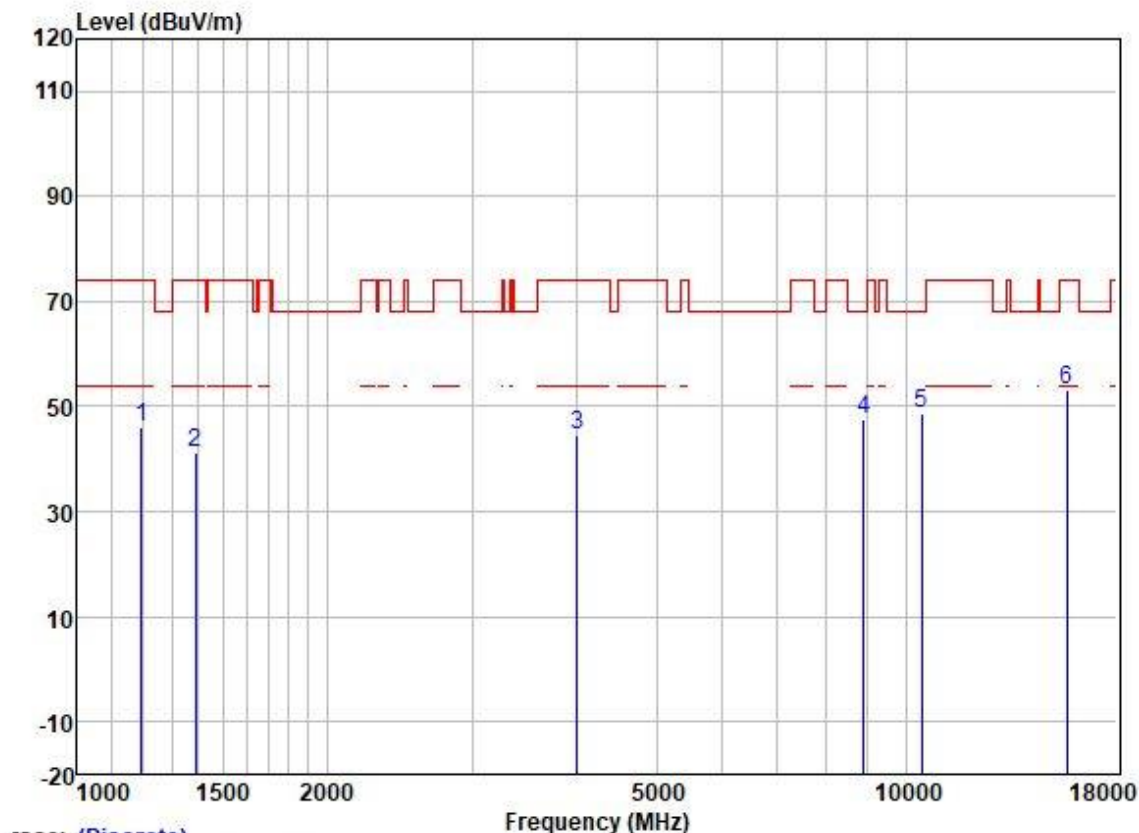
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

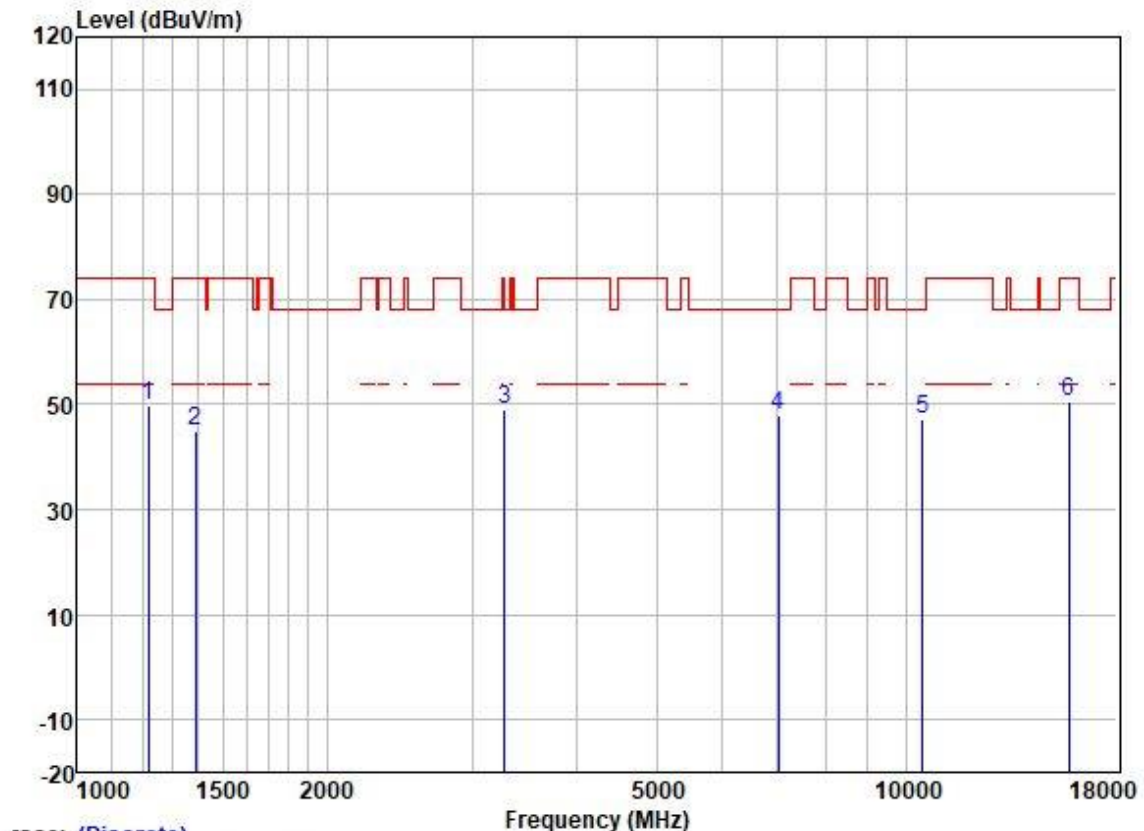


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.14	25.89	2.55	37.64	45.94	74.00	-28.06	HORIZONTAL	peak
2	1390.276	50.18	25.76	2.88	37.57	41.25	74.00	-32.75	HORIZONTAL	peak
3	4015.929	45.04	31.08	4.89	36.60	44.41	74.00	-29.59	HORIZONTAL	peak
4	8891.725	39.43	37.99	7.23	36.93	47.72	68.20	-20.48	HORIZONTAL	peak
5	10440.000	39.13	38.70	7.76	36.77	48.82	68.20	-19.38	HORIZONTAL	peak
6	15660.000	39.82	38.71	11.32	36.57	53.28	74.00	-20.72	HORIZONTAL	peak



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



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1217.190	58.94	25.91	2.61	37.64	49.82	74.00	-24.18	VERTICAL peak
2	1390.276	54.06	25.76	2.88	37.57	45.13	74.00	-28.87	VERTICAL peak
3	3280.326	51.64	29.80	4.52	36.79	49.17	68.20	-19.03	VERTICAL peak
4	7015.420	41.54	36.03	7.12	36.90	47.79	68.20	-20.41	VERTICAL peak
5	10480.000	37.54	38.71	7.77	36.77	47.25	68.20	-20.95	VERTICAL peak
6	15720.000	37.14	38.67	11.34	36.60	50.55	74.00	-23.45	VERTICAL peak



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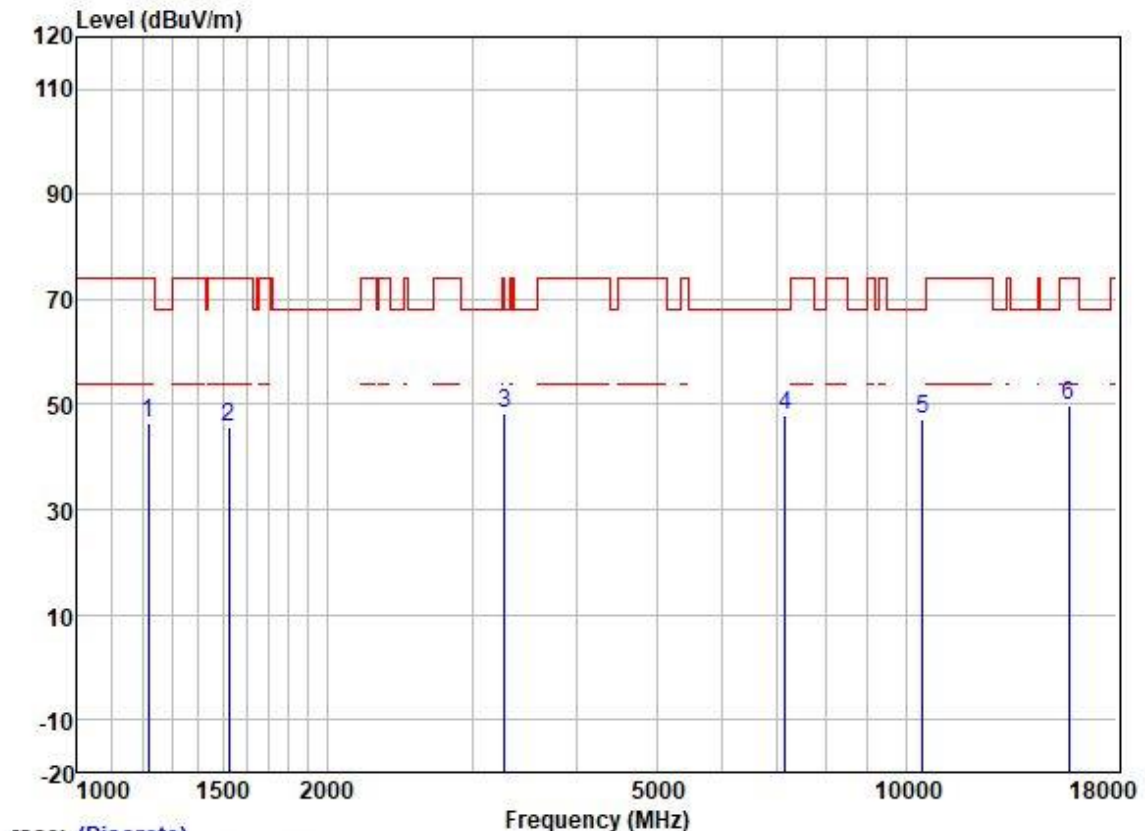
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

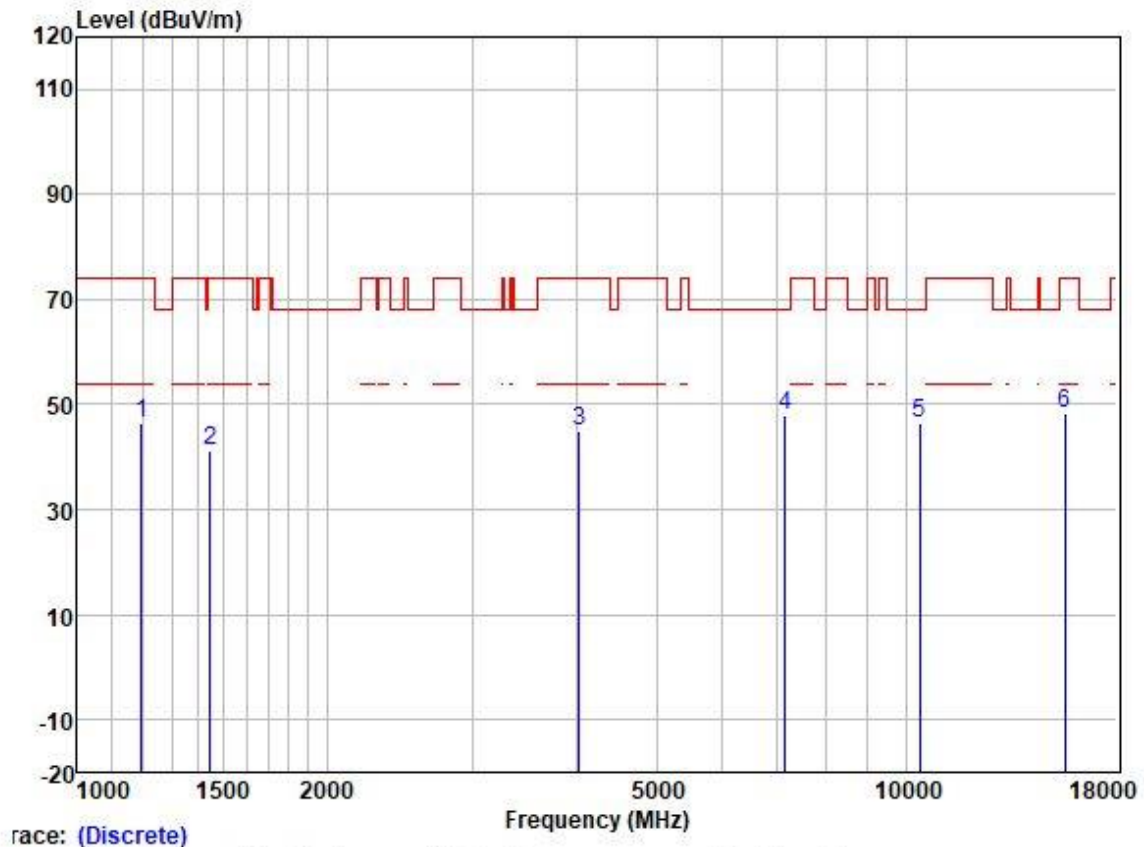


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1217.190	55.58	25.91	2.61	37.64	46.46	74.00	-27.54	HORIZONTAL	peak
2	1525.000	54.65	25.54	2.95	37.48	45.66	74.00	-28.34	HORIZONTAL	peak
3	3280.326	50.74	29.80	4.52	36.79	48.27	68.20	-19.93	HORIZONTAL	peak
4	7158.806	41.23	36.61	7.00	36.93	47.91	68.20	-20.29	HORIZONTAL	peak
5	10480.000	37.58	38.71	7.77	36.77	47.29	68.20	-20.91	HORIZONTAL	peak
6	15720.000	36.28	38.67	11.34	36.60	49.69	74.00	-24.31	HORIZONTAL	peak



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

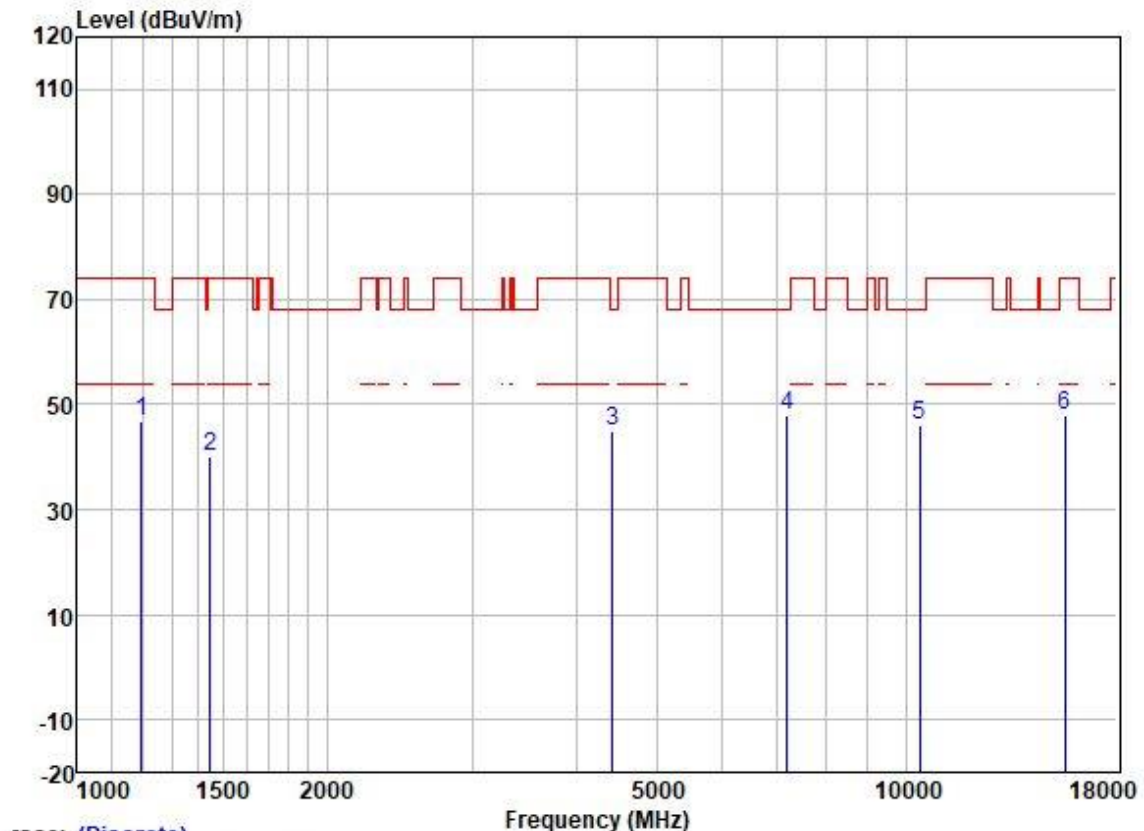


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.73	25.89	2.55	37.64	46.53	74.00	-27.47	VERTICAL	peak
2	1447.688	50.14	25.65	2.92	37.53	41.18	74.00	-32.82	VERTICAL	peak
3	4039.212	45.58	31.09	4.88	36.60	44.95	74.00	-29.05	VERTICAL	peak
4	7158.806	41.39	36.61	7.00	36.93	48.07	68.20	-20.13	VERTICAL	peak
5	10380.000	36.77	38.68	7.75	36.78	46.42	68.20	-21.78	VERTICAL	peak
6	15570.000	34.93	38.80	11.30	36.53	48.50	74.00	-25.50	VERTICAL	peak



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

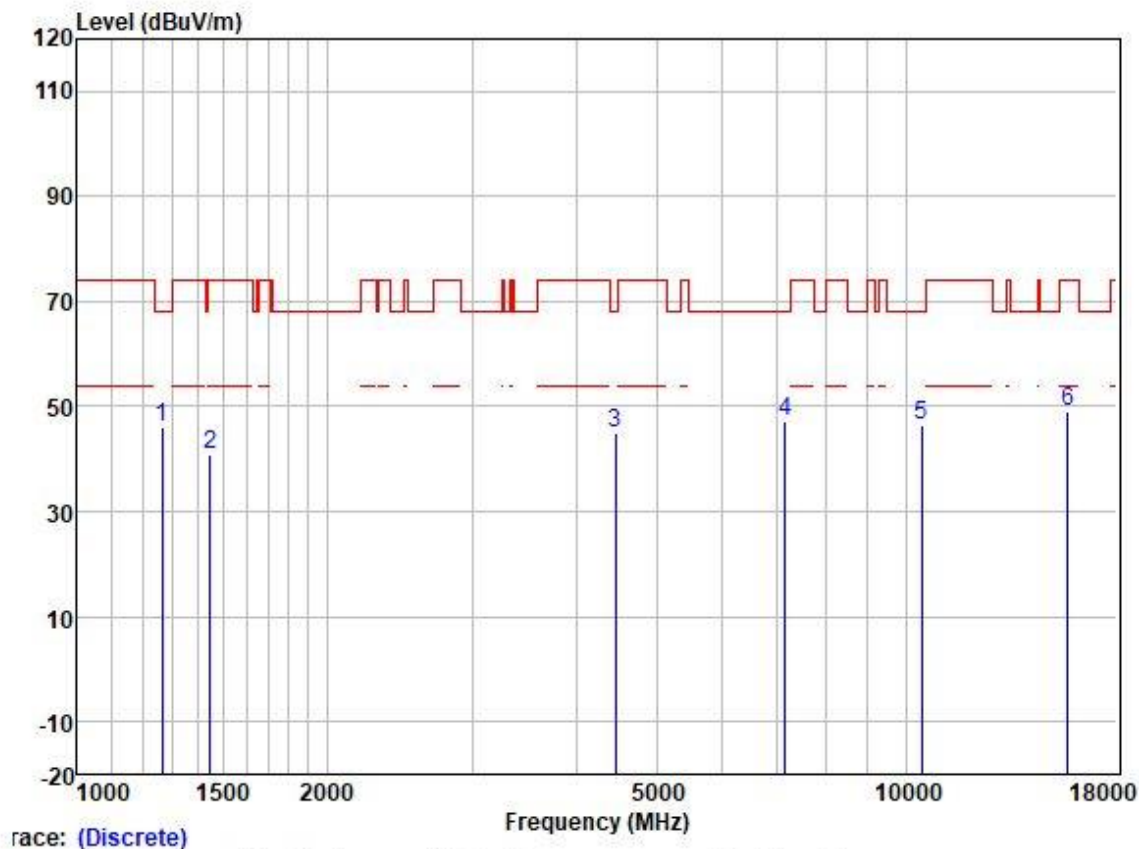


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	56.13	25.89	2.55	37.64	46.93	74.00	-27.07	HORIZONTAL	peak
2	1447.688	48.95	25.65	2.92	37.53	39.99	74.00	-34.01	HORIZONTAL	peak
3	4430.628	45.15	31.77	4.79	36.63	45.08	68.20	-23.12	HORIZONTAL	peak
4	7200.309	41.25	36.71	6.96	36.93	47.99	68.20	-20.21	HORIZONTAL	peak
5	10380.000	36.61	38.68	7.75	36.78	46.26	68.20	-21.94	HORIZONTAL	peak
6	15570.000	34.46	38.80	11.30	36.53	48.03	74.00	-25.97	HORIZONTAL	peak



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

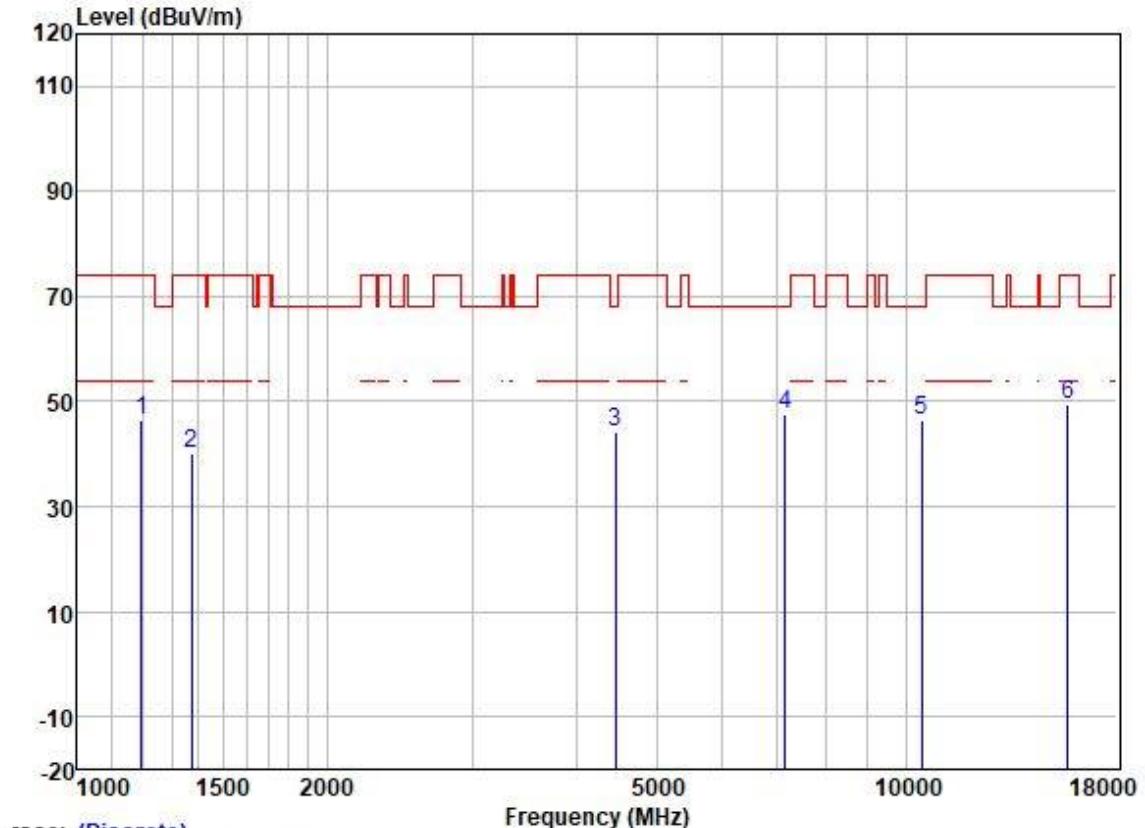


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	55.03	25.97	2.75	37.63	46.12	68.20	-22.08	VERTICAL	peak
2	1447.688	49.83	25.65	2.92	37.53	40.87	74.00	-33.13	VERTICAL	peak
3	4456.315	44.85	31.77	4.79	36.63	44.78	68.20	-23.42	VERTICAL	peak
4	7158.806	40.62	36.61	7.00	36.93	47.30	68.20	-20.90	VERTICAL	peak
5	10460.000	36.71	38.70	7.76	36.77	46.40	68.20	-21.80	VERTICAL	peak
6	15690.000	35.48	38.71	11.32	36.59	48.92	74.00	-25.08	VERTICAL	peak



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



race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.52	25.89	2.55	37.64	46.32	74.00	-27.68	HORIZONTAL	peak
2	1374.295	48.86	25.79	2.87	37.57	39.95	74.00	-34.05	HORIZONTAL	peak
3	4456.315	44.27	31.77	4.79	36.63	44.20	68.20	-24.00	HORIZONTAL	peak
4	7158.806	40.81	36.61	7.00	36.93	47.49	68.20	-20.71	HORIZONTAL	peak
5	10460.000	36.64	38.70	7.76	36.77	46.33	68.20	-21.87	HORIZONTAL	peak
6	15690.000	35.94	38.71	11.32	36.59	49.38	74.00	-24.62	HORIZONTAL	peak



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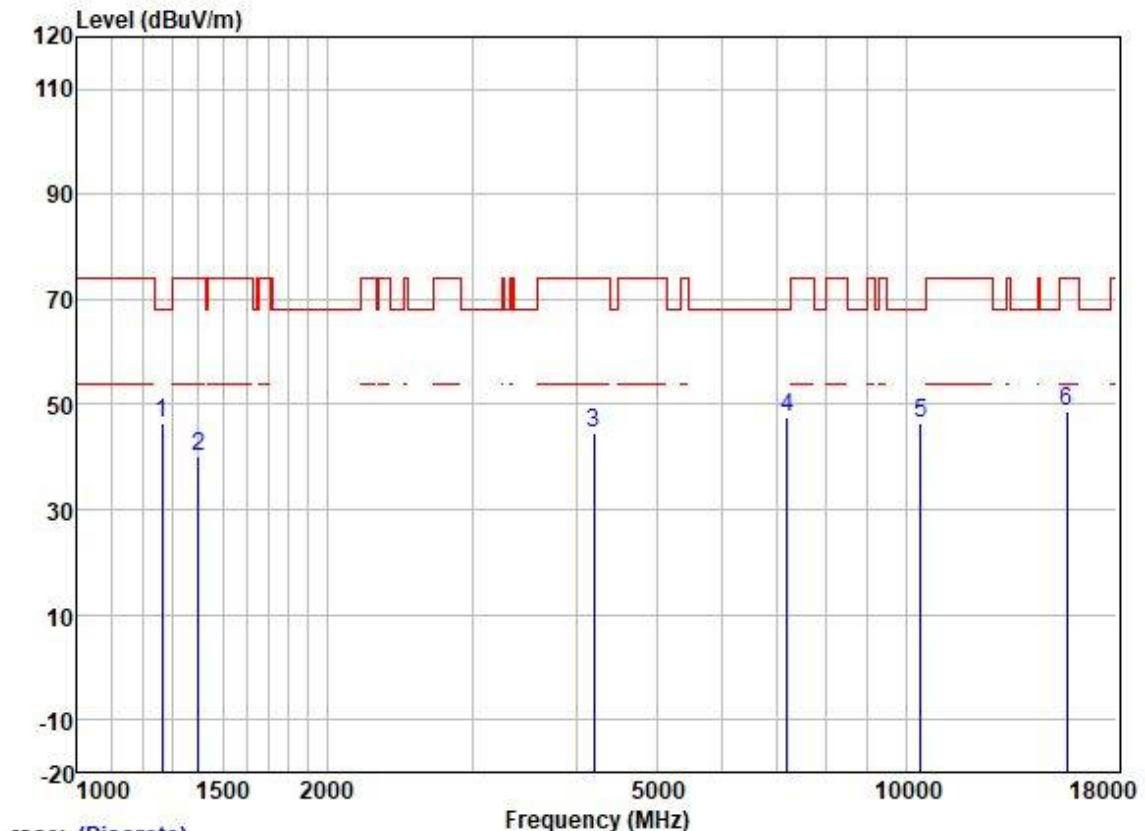
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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz

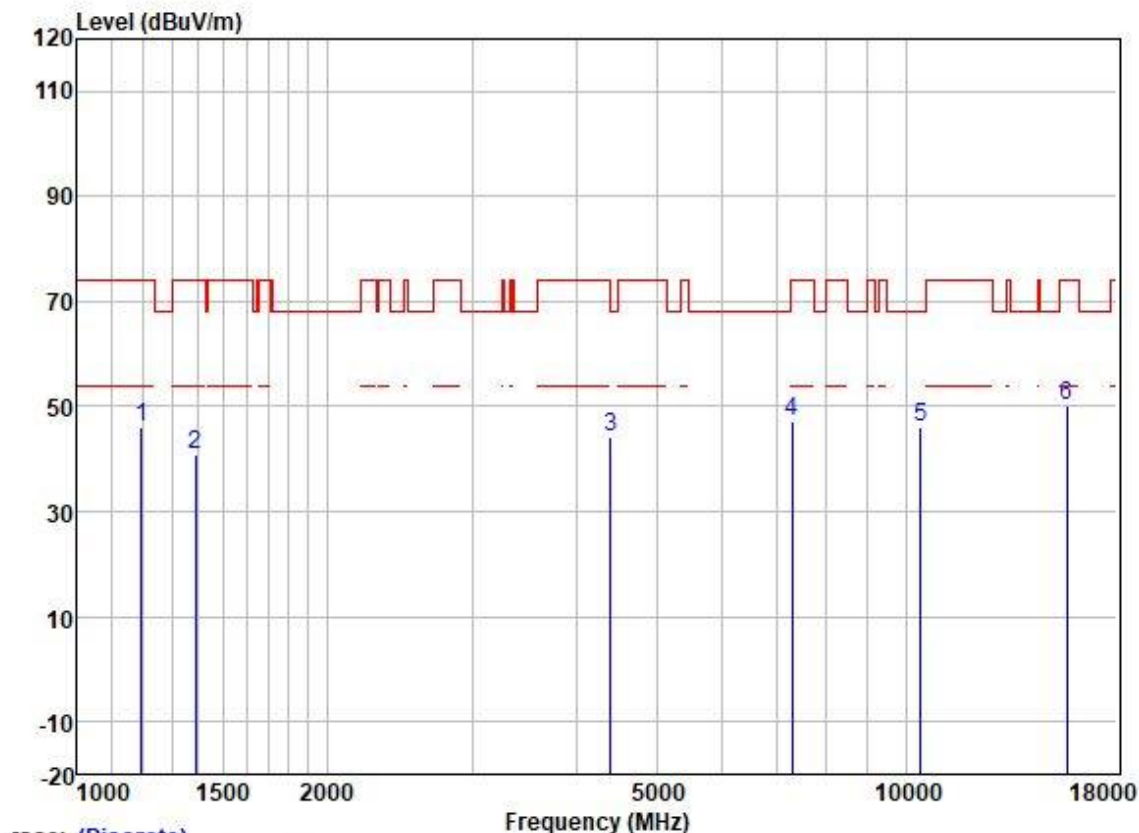


race: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	55.34	25.97	2.75	37.63	46.43	68.20	-21.77	VERTICAL peak
2	1398.336	49.18	25.74	2.89	37.56	40.25	74.00	-33.75	VERTICAL peak
3	4206.011	44.97	31.30	4.85	36.61	44.51	74.00	-29.49	VERTICAL peak
4	7200.309	40.75	36.71	6.96	36.93	47.49	68.20	-20.71	VERTICAL peak
5	10420.000	36.91	38.69	7.75	36.78	46.57	68.20	-21.63	VERTICAL peak
6	15630.000	35.02	38.76	11.31	36.56	48.53	74.00	-25.47	VERTICAL peak



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

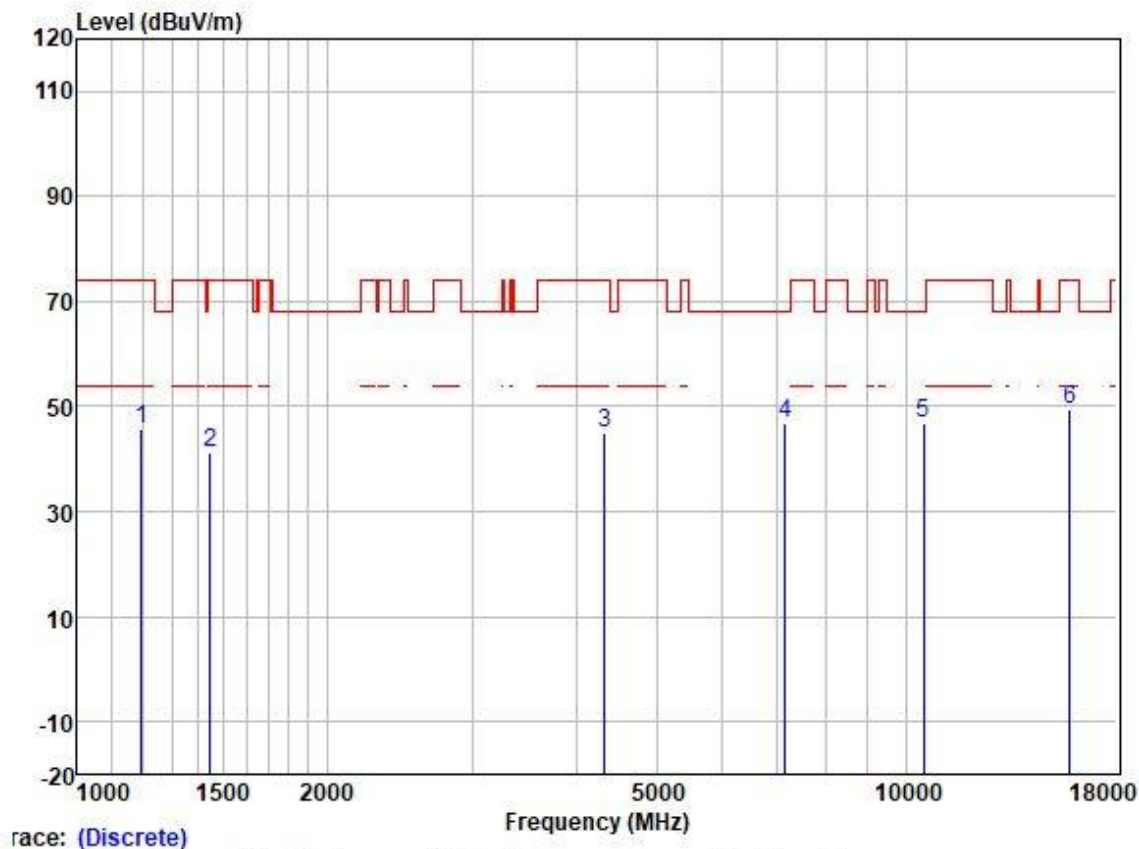


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.42	25.89	2.55	37.64	46.22	74.00	-27.78	HORIZONTAL	peak
2	1390.276	49.75	25.76	2.88	37.57	40.82	74.00	-33.18	HORIZONTAL	peak
3	4405.090	44.31	31.77	4.79	36.62	44.25	68.20	-23.95	HORIZONTAL	peak
4	7284.038	40.73	36.69	6.85	36.94	47.33	74.00	-26.67	HORIZONTAL	peak
5	10420.000	36.49	38.69	7.75	36.78	46.15	68.20	-22.05	HORIZONTAL	peak
6	15630.000	36.73	38.76	11.31	36.56	50.24	74.00	-23.76	HORIZONTAL	peak



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

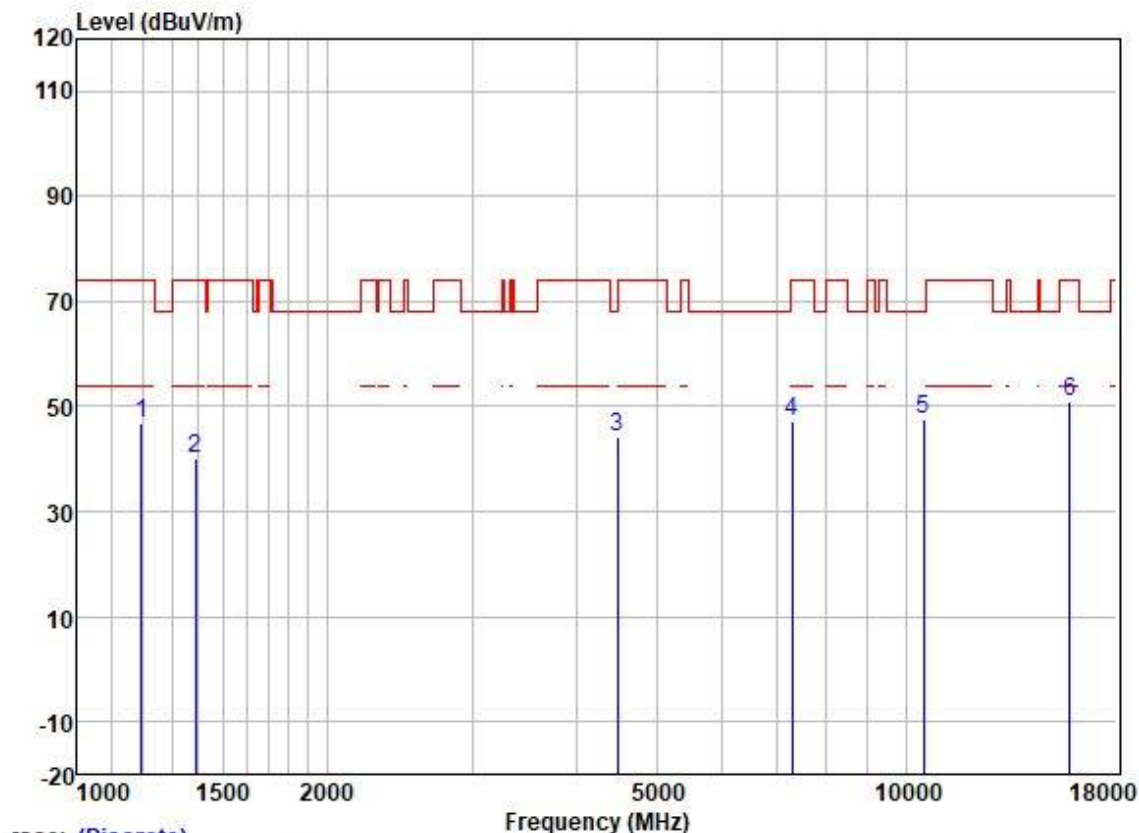


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.07	25.89	2.55	37.64	45.87	74.00	-28.13	VERTICAL	peak
2	1447.688	50.33	25.65	2.92	37.53	41.37	74.00	-32.63	VERTICAL	peak
3	4329.354	45.18	31.64	4.81	36.62	45.01	74.00	-28.99	VERTICAL	peak
4	7158.806	40.04	36.61	7.00	36.93	46.72	68.20	-21.48	VERTICAL	peak
5	10520.000	37.02	38.72	7.77	36.77	46.74	68.20	-21.46	VERTICAL	peak
6	15780.000	36.01	38.70	11.35	36.63	49.43	74.00	-24.57	VERTICAL	peak



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

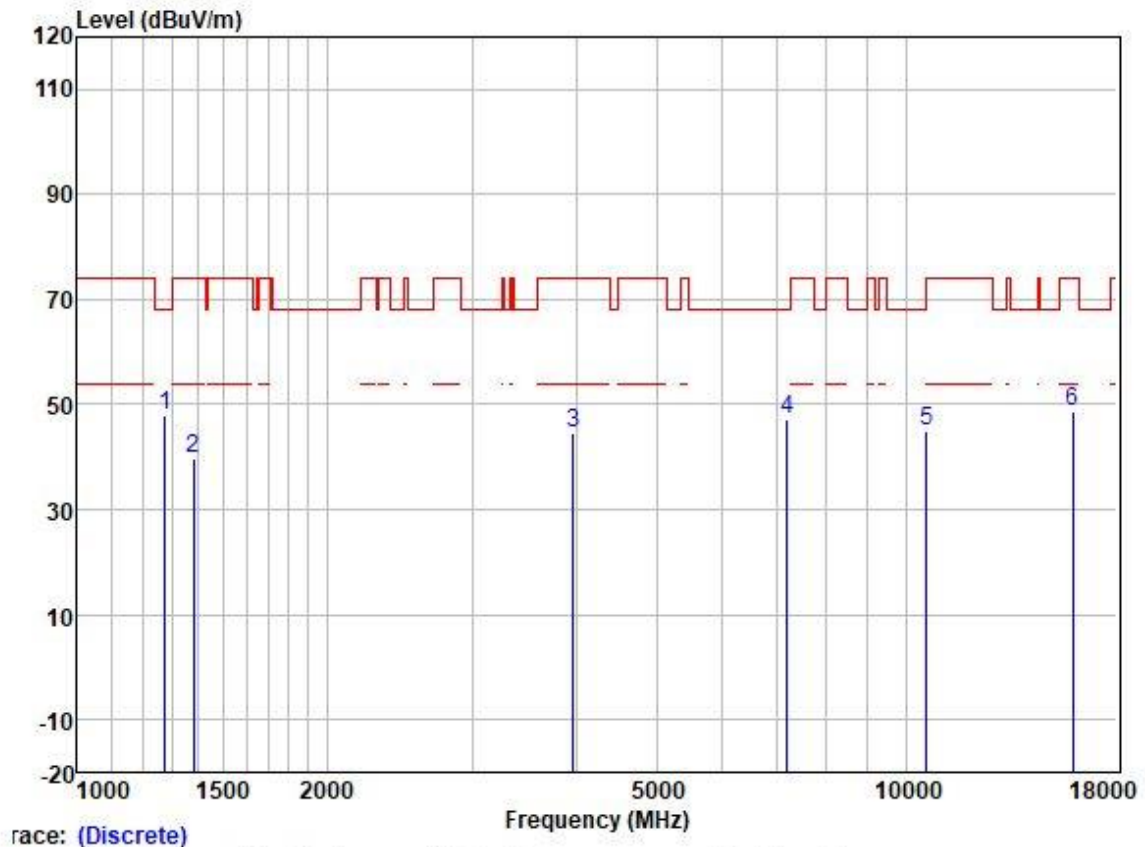


race: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	56.00	25.89	2.55	37.64	46.80	74.00	-27.20	HORIZONTAL peak
2	1390.276	48.90	25.76	2.88	37.57	39.97	74.00	-34.03	HORIZONTAL peak
3	4482.150	44.43	31.77	4.78	36.63	44.35	68.20	-23.85	HORIZONTAL peak
4	7284.038	40.64	36.69	6.85	36.94	47.24	74.00	-26.76	HORIZONTAL peak
5	10520.000	37.83	38.72	7.77	36.77	47.55	68.20	-20.65	HORIZONTAL peak
6	15780.000	37.53	38.70	11.35	36.63	50.95	74.00	-23.05	HORIZONTAL peak



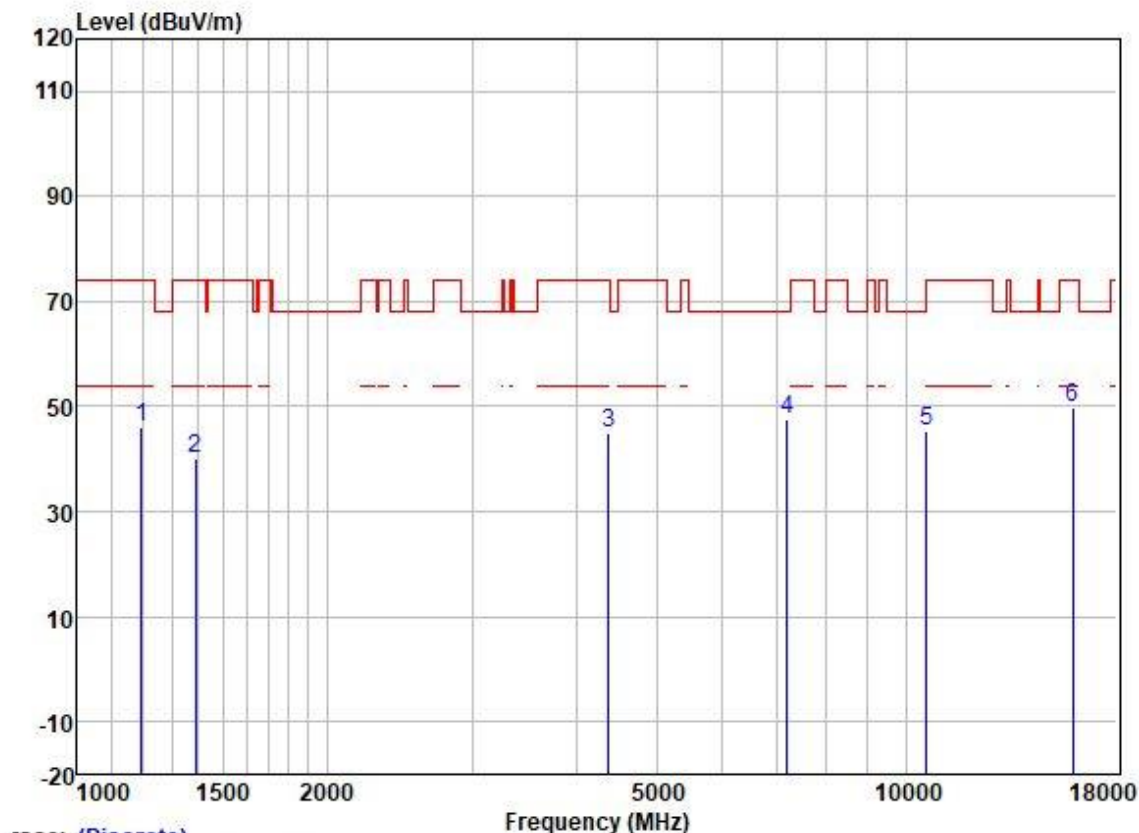
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna		Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1274.802	56.71	25.98	2.76	37.62	47.83	68.20	-20.37	VERTICAL	peak
2	1382.262	48.66	25.77	2.88	37.57	39.74	74.00	-34.26	VERTICAL	peak
3	3969.767	45.24	31.05	4.88	36.61	44.56	74.00	-29.44	VERTICAL	peak
4	7200.309	40.31	36.71	6.96	36.93	47.05	68.20	-21.15	VERTICAL	peak
5	10600.000	35.15	38.91	7.84	36.76	45.14	68.20	-23.06	VERTICAL	peak
6	15900.000	35.14	38.73	11.40	36.67	48.60	74.00	-25.40	VERTICAL	peak



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

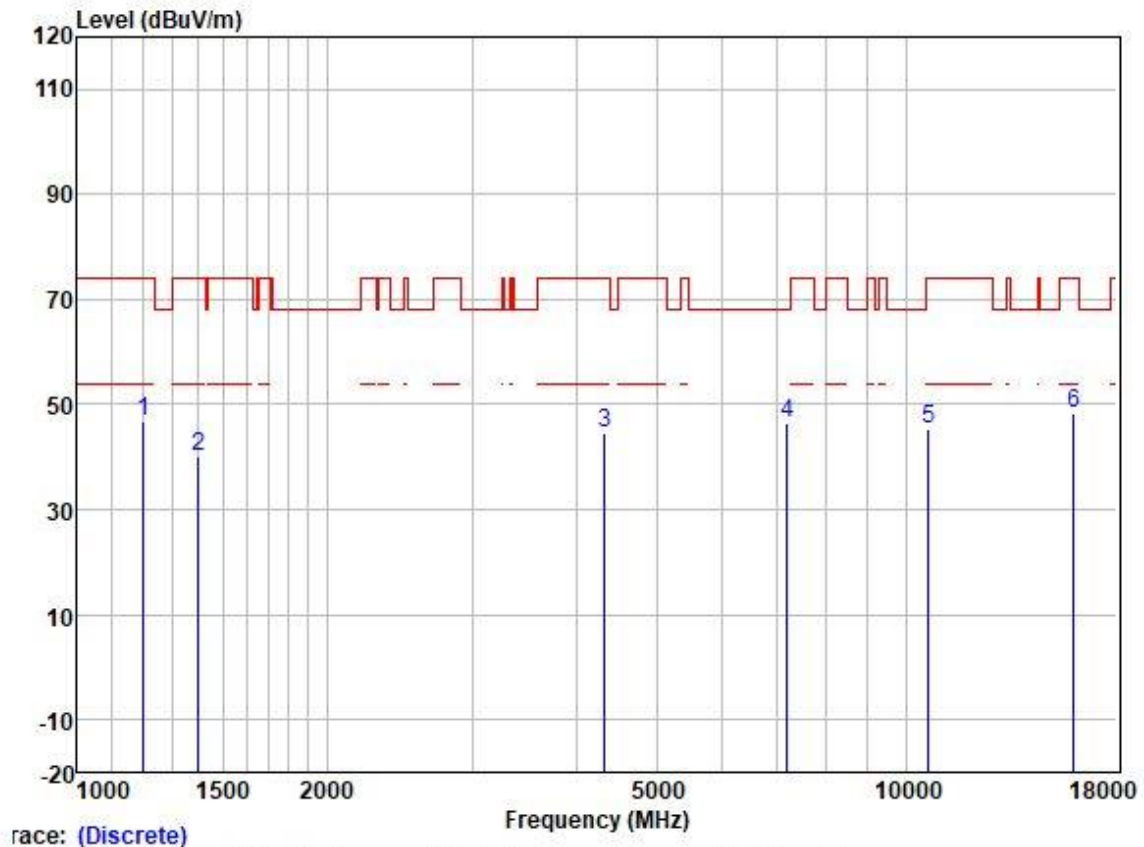


race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.24	25.89	2.55	37.64	46.04	74.00	-27.96	HORIZONTAL	peak
2	1390.276	49.12	25.76	2.88	37.57	40.19	74.00	-33.81	HORIZONTAL	peak
3	4379.699	45.03	31.73	4.80	36.62	44.94	74.00	-29.06	HORIZONTAL	peak
4	7200.309	40.68	36.71	6.96	36.93	47.42	68.20	-20.78	HORIZONTAL	peak
5	10600.000	35.38	38.91	7.84	36.76	45.37	68.20	-22.83	HORIZONTAL	peak
6	15900.000	36.48	38.73	11.40	36.67	49.94	74.00	-24.06	HORIZONTAL	peak



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



race: (Discrete)

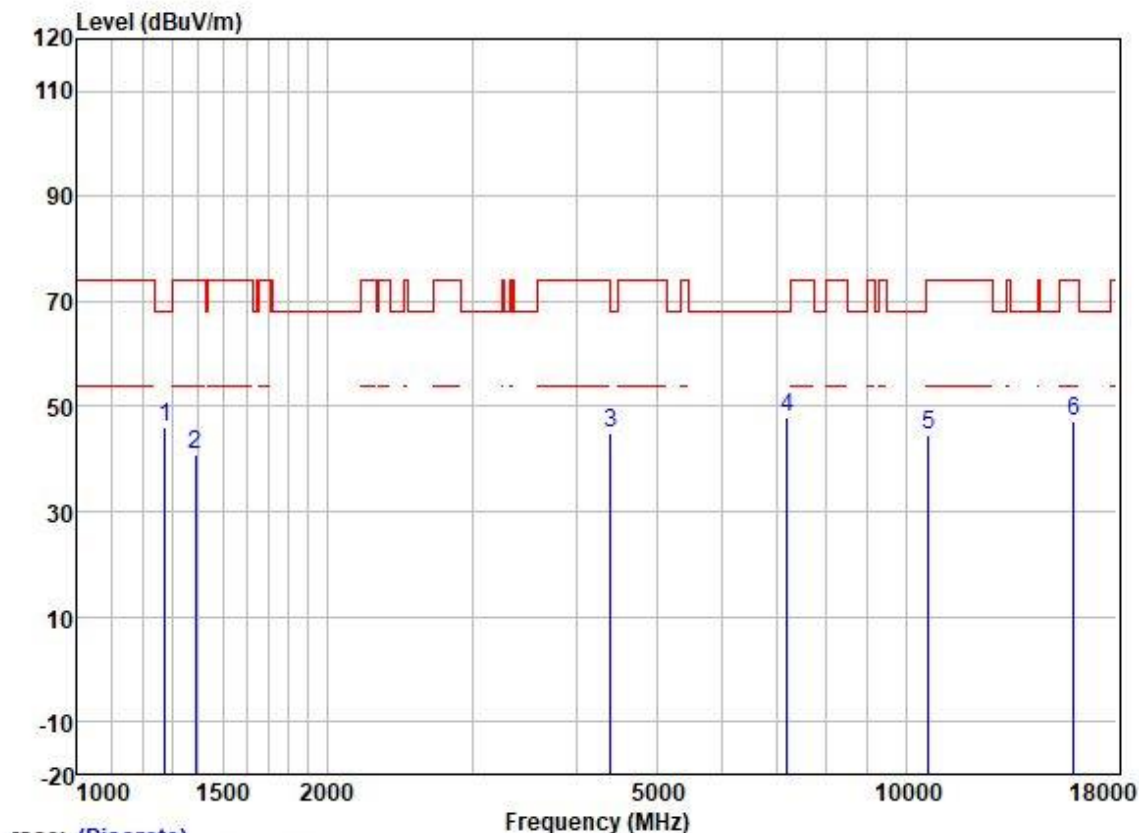
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	56.01	25.90	2.57	37.64	46.84	74.00	-27.16	VERTICAL peak
2	1398.336	48.89	25.74	2.89	37.56	39.96	74.00	-34.04	VERTICAL peak
3	4329.354	44.85	31.64	4.81	36.62	44.68	74.00	-29.32	VERTICAL peak
4	7200.309	39.62	36.71	6.96	36.93	46.36	68.20	-21.84	VERTICAL peak
5	10640.000	35.22	38.99	7.86	36.76	45.31	74.00	-28.69	VERTICAL peak
6	15960.000	35.07	38.69	11.41	36.69	48.48	74.00	-25.52	VERTICAL peak



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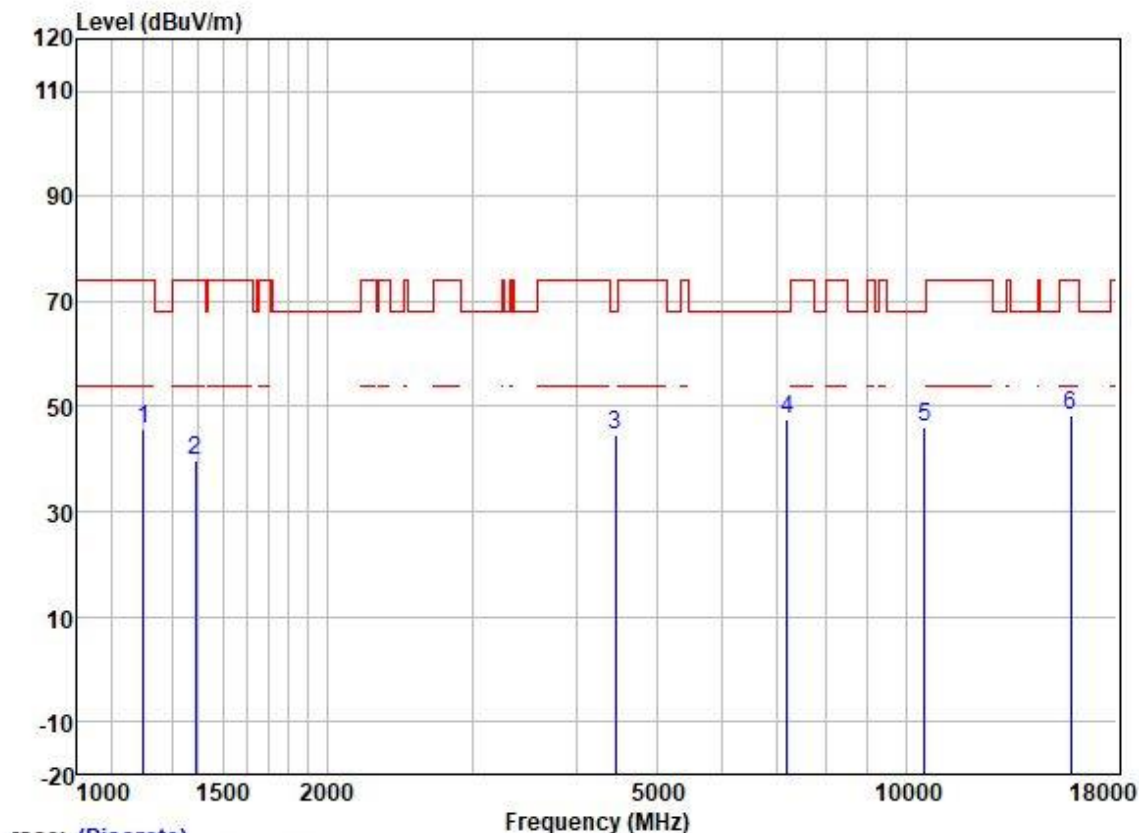
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1274.802	54.89	25.98	2.76	37.62	46.01	68.20	-22.19	HORIZONTAL peak
2	1390.276	49.80	25.76	2.88	37.57	40.87	74.00	-33.13	HORIZONTAL peak
3	4405.090	44.96	31.77	4.79	36.62	44.90	68.20	-23.30	HORIZONTAL peak
4	7200.309	41.29	36.71	6.96	36.93	48.03	68.20	-20.17	HORIZONTAL peak
5	10640.000	34.55	38.99	7.86	36.76	44.64	74.00	-29.36	HORIZONTAL peak
6	15960.000	33.88	38.69	11.41	36.69	47.29	74.00	-26.71	HORIZONTAL peak

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

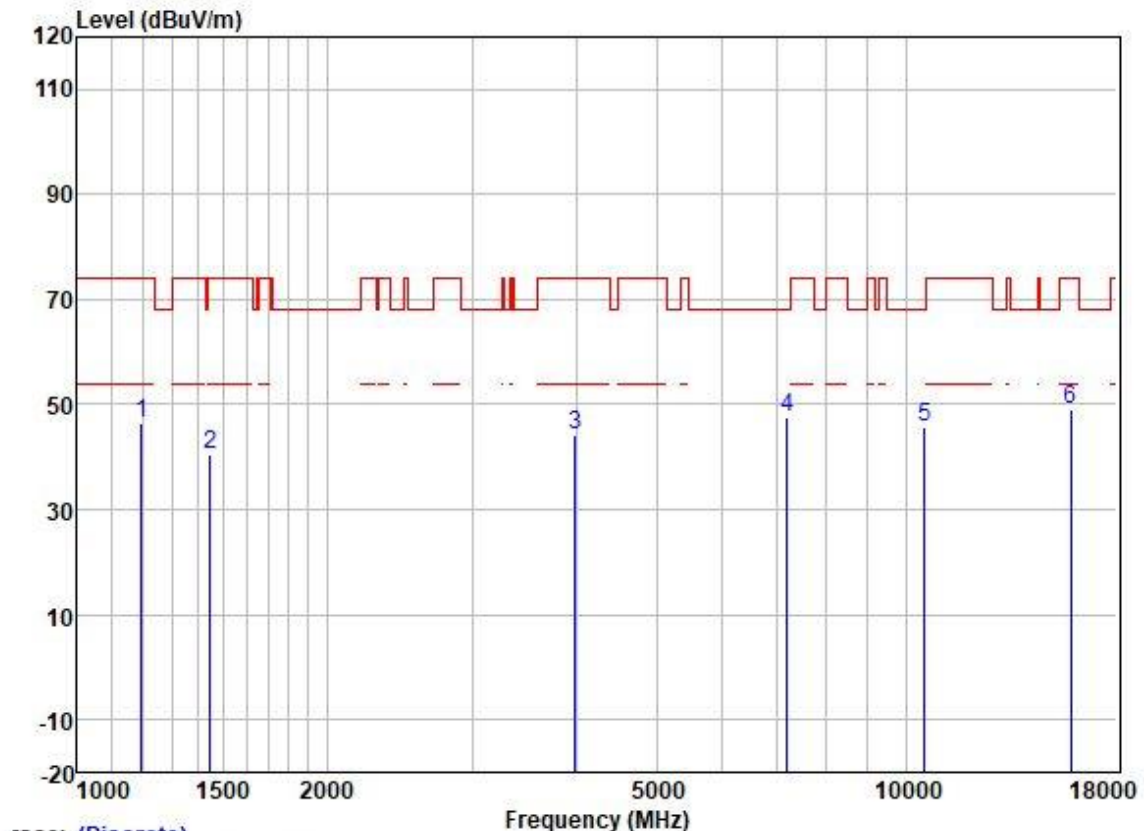


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	55.05	25.90	2.57	37.64	45.88	74.00	-28.12	VERTICAL	peak
2	1390.276	48.66	25.76	2.88	37.57	39.73	74.00	-34.27	VERTICAL	peak
3	4456.315	44.54	31.77	4.79	36.63	44.47	68.20	-23.73	VERTICAL	peak
4	7200.309	40.92	36.71	6.96	36.93	47.66	68.20	-20.54	VERTICAL	peak
5	10540.000	36.43	38.78	7.79	36.76	46.24	68.20	-21.96	VERTICAL	peak
6	15810.000	35.04	38.73	11.37	36.64	48.50	74.00	-25.50	VERTICAL	peak



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



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.60	25.89	2.55	37.64	46.40	74.00	-27.60	HORIZONTAL peak
2	1447.688	49.35	25.65	2.92	37.53	40.39	74.00	-33.61	HORIZONTAL peak
3	3992.781	44.99	31.07	4.89	36.60	44.35	74.00	-29.65	HORIZONTAL peak
4	7200.309	40.95	36.71	6.96	36.93	47.69	68.20	-20.51	HORIZONTAL peak
5	10540.000	35.89	38.78	7.79	36.76	45.70	68.20	-22.50	HORIZONTAL peak
6	15810.000	35.59	38.73	11.37	36.64	49.05	74.00	-24.95	HORIZONTAL peak



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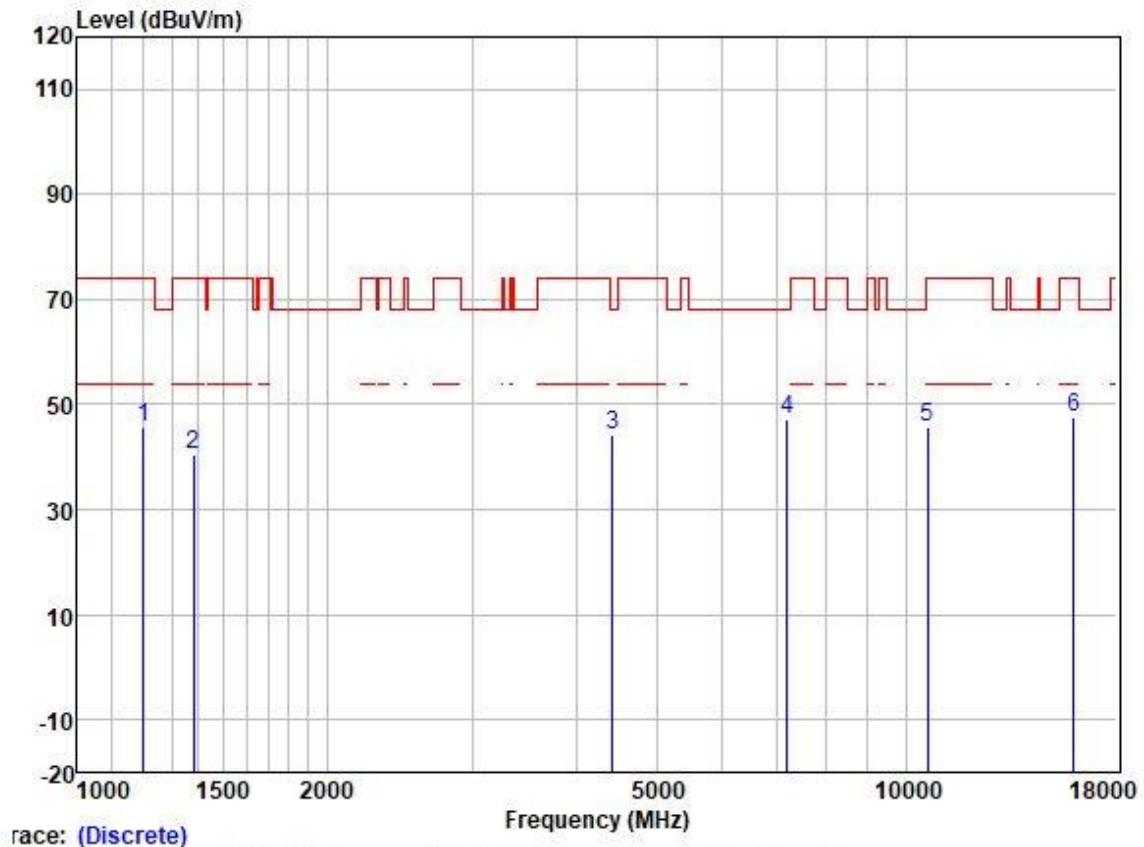
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Guangzhou Branch, EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

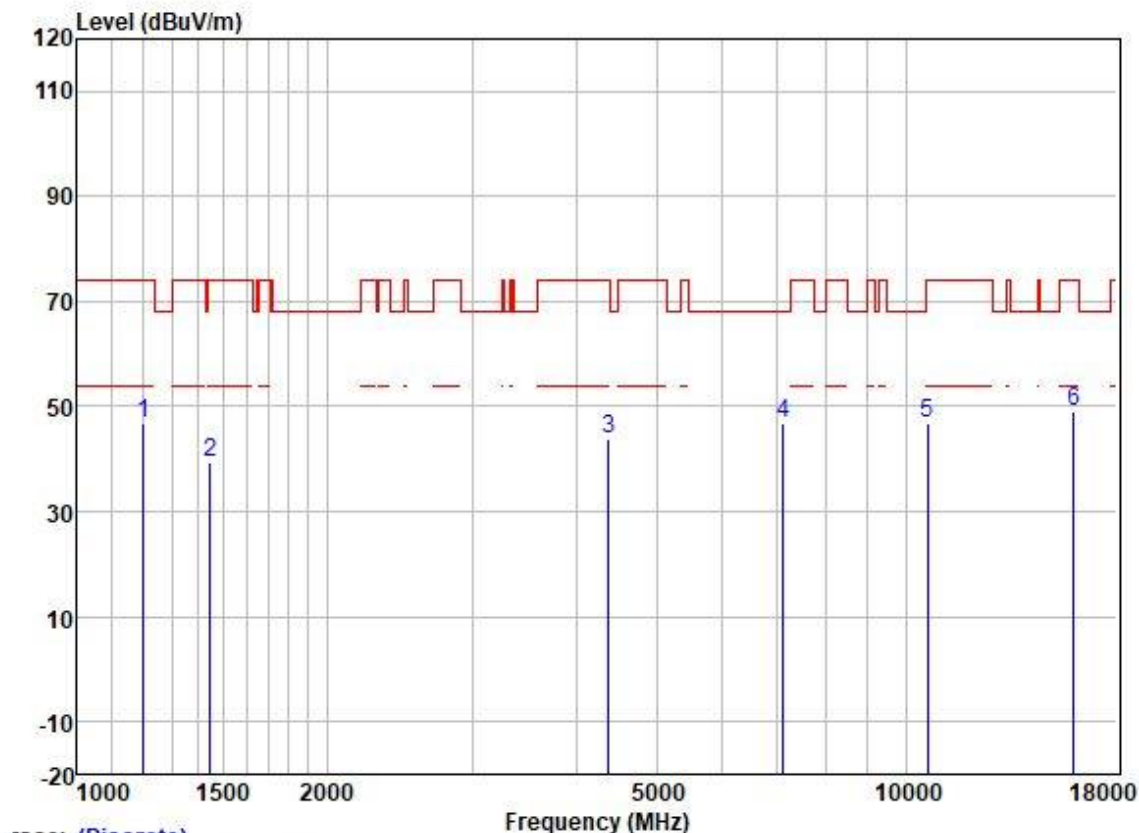


race: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	54.90	25.90	2.57	37.64	45.73	74.00	-28.27	VERTICAL peak
2	1382.262	49.53	25.77	2.88	37.57	40.61	74.00	-33.39	VERTICAL peak
3	4430.628	44.37	31.77	4.79	36.63	44.30	68.20	-23.90	VERTICAL peak
4	7200.309	40.40	36.71	6.96	36.93	47.14	68.20	-21.06	VERTICAL peak
5	10620.000	35.58	38.91	7.84	36.76	45.57	74.00	-28.43	VERTICAL peak
6	15930.000	33.99	38.69	11.41	36.67	47.42	74.00	-26.58	VERTICAL peak



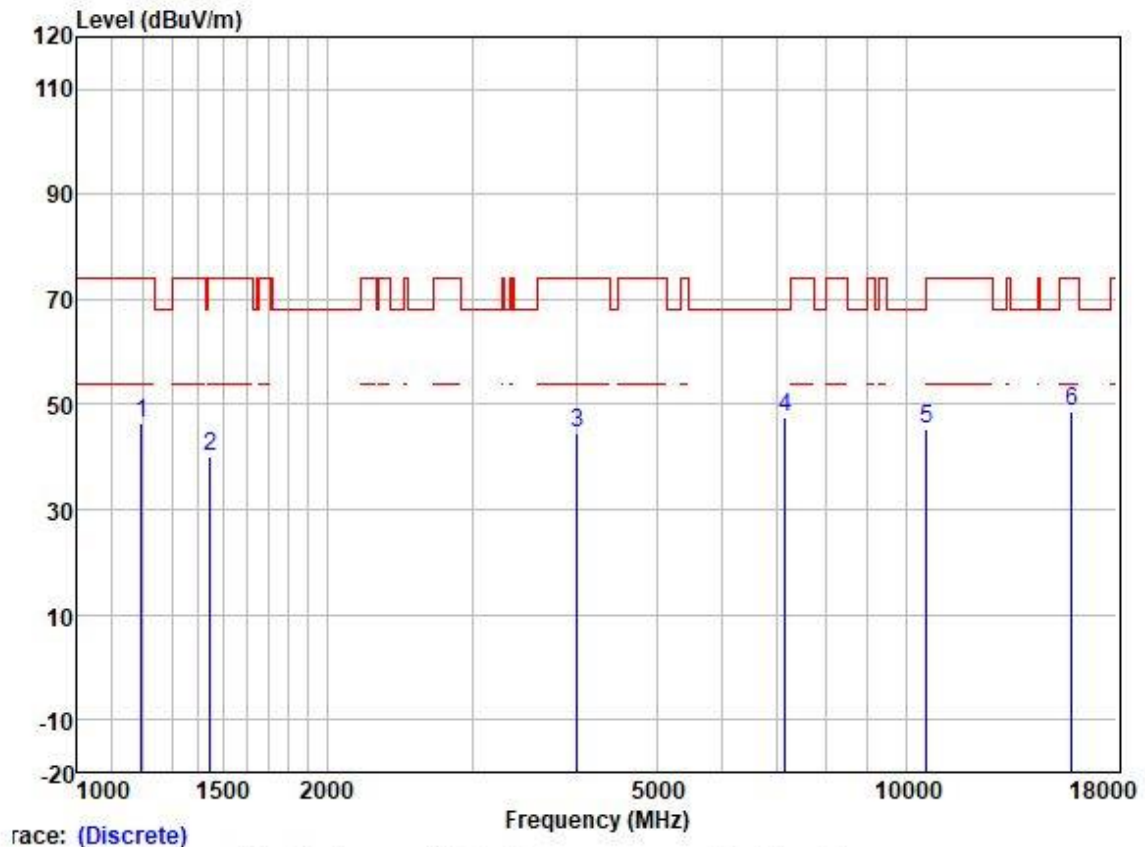
Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	56.05	25.90	2.57	37.64	46.88	74.00	-27.12	HORIZONTAL	peak
2	1447.688	48.29	25.65	2.92	37.53	39.33	74.00	-34.67	HORIZONTAL	peak
3	4379.699	44.08	31.73	4.80	36.62	43.99	74.00	-30.01	HORIZONTAL	peak
4	7117.542	40.26	36.47	7.04	36.92	46.85	68.20	-21.35	HORIZONTAL	peak
5	10620.000	36.74	38.91	7.84	36.76	46.73	74.00	-27.27	HORIZONTAL	peak
6	15930.000	35.47	38.69	11.41	36.67	48.90	74.00	-25.10	HORIZONTAL	peak

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

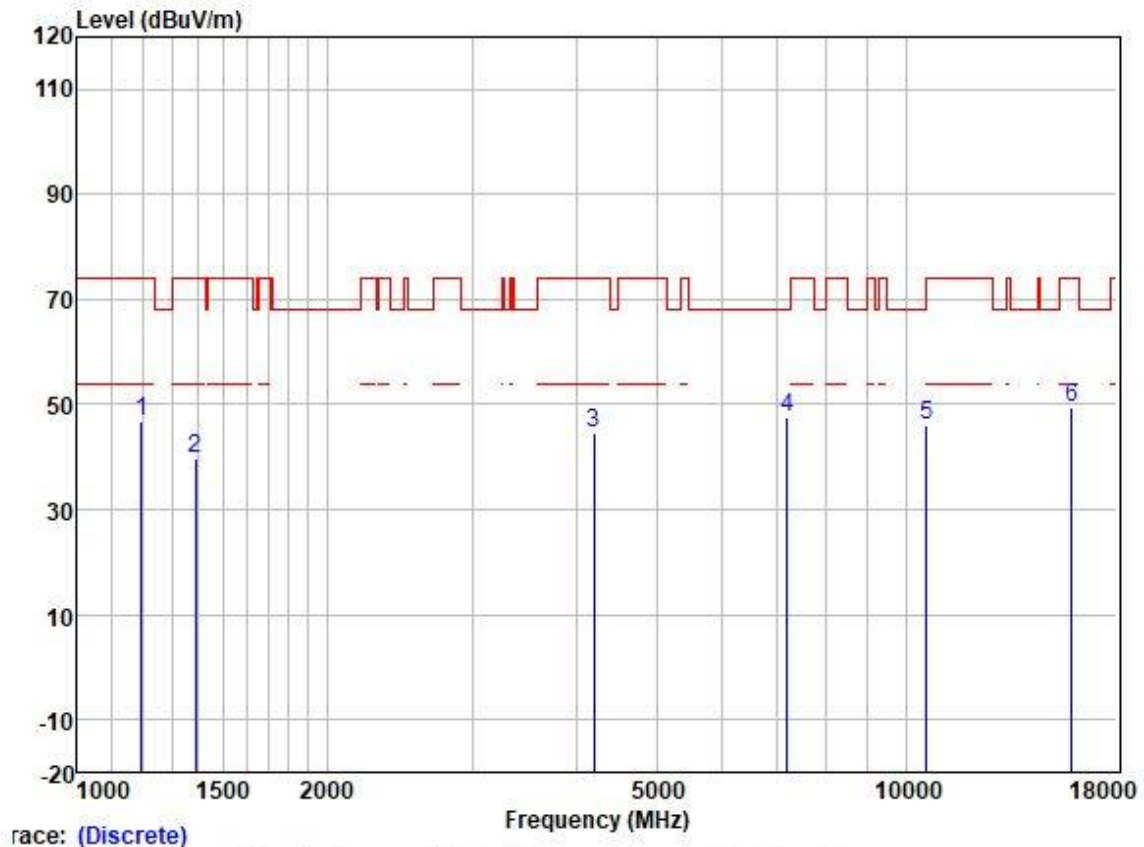


race: (Discrete)

	Freq	ReadAntenna		Cable	Preamp		Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.64	25.89	2.55	37.64	46.44	74.00	-27.56	VERTICAL	peak
2	1447.688	49.25	25.65	2.92	37.53	40.29	74.00	-33.71	VERTICAL	peak
3	4015.929	45.31	31.08	4.89	36.60	44.68	74.00	-29.32	VERTICAL	peak
4	7158.806	41.01	36.61	7.00	36.93	47.69	68.20	-20.51	VERTICAL	peak
5	10580.000	35.43	38.85	7.81	36.76	45.33	68.20	-22.87	VERTICAL	peak
6	15870.000	35.22	38.73	11.38	36.66	48.67	74.00	-25.33	VERTICAL	peak



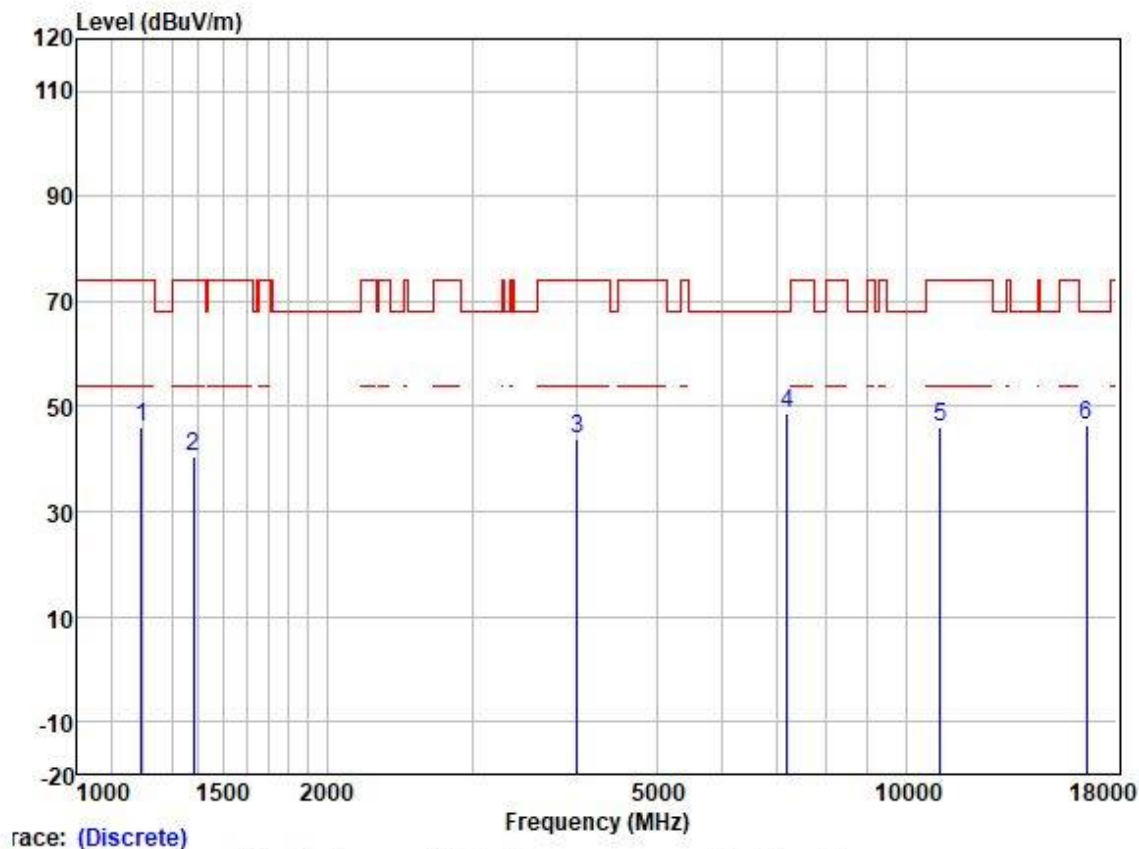
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.95	25.89	2.55	37.64	46.75	74.00	-27.25	HORIZONTAL peak
2	1390.276	48.62	25.76	2.88	37.57	39.69	74.00	-34.31	HORIZONTAL peak
3	4206.011	45.03	31.30	4.85	36.61	44.57	74.00	-29.43	HORIZONTAL peak
4	7200.309	40.82	36.71	6.96	36.93	47.56	68.20	-20.64	HORIZONTAL peak
5	10580.000	36.05	38.85	7.81	36.76	45.95	68.20	-22.25	HORIZONTAL peak
6	15870.000	35.98	38.73	11.38	36.66	49.43	74.00	-24.57	HORIZONTAL peak



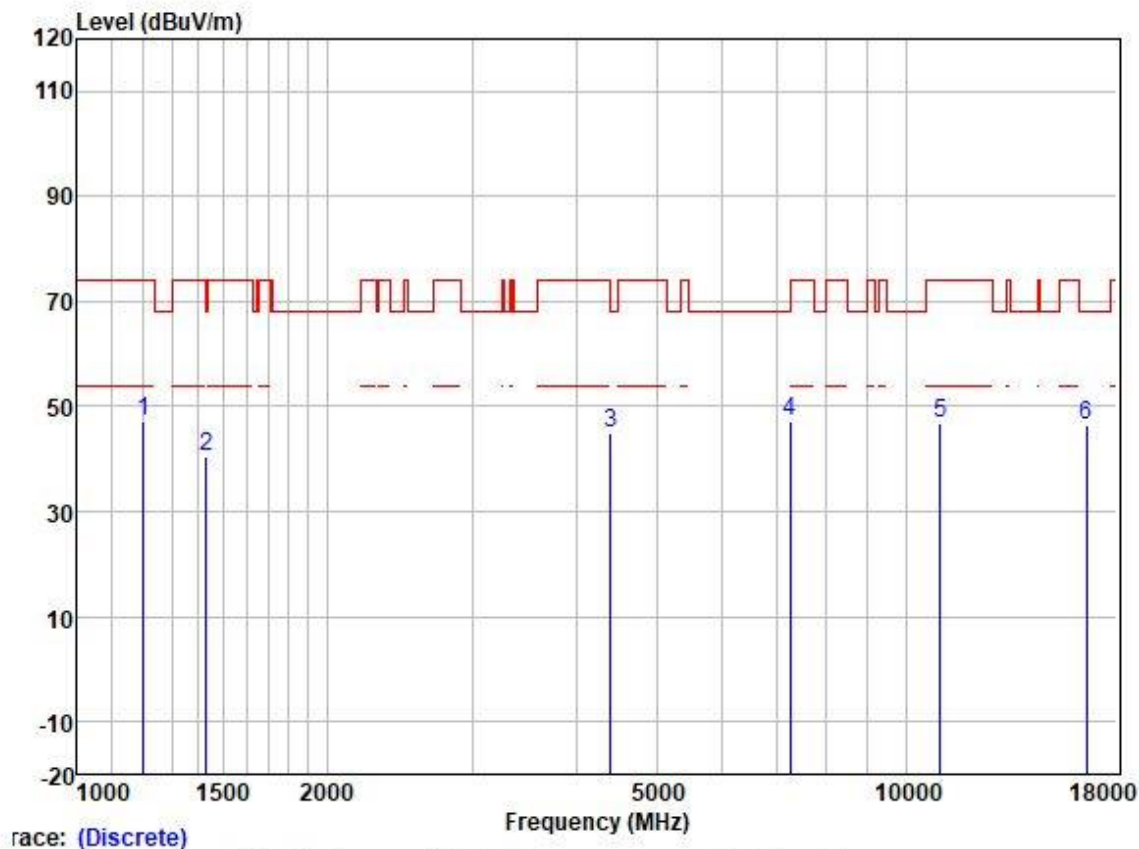
Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.40	25.89	2.55	37.64	46.20	74.00	-27.80	VERTICAL	peak
2	1382.262	49.28	25.77	2.88	37.57	40.36	74.00	-33.64	VERTICAL	peak
3	4015.929	44.45	31.08	4.89	36.60	43.82	74.00	-30.18	VERTICAL	peak
4	7200.309	41.97	36.71	6.96	36.93	48.71	68.20	-19.49	VERTICAL	peak
5	11000.000	35.57	38.97	8.20	36.70	46.04	74.00	-27.96	VERTICAL	peak
6	16500.000	32.01	39.13	11.73	36.56	46.31	68.20	-21.89	VERTICAL	peak



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

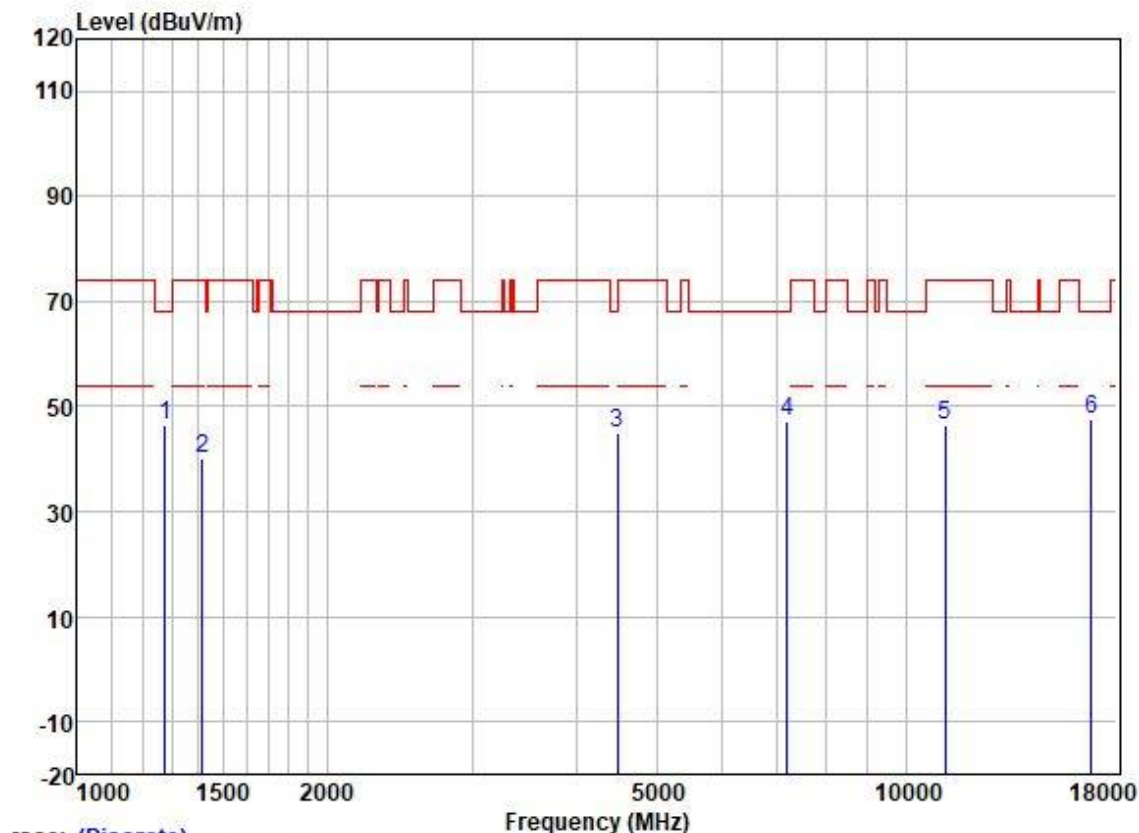


race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	56.33	25.90	2.57	37.64	47.16	74.00	-26.84	HORIZONTAL	peak
2	1431.047	49.33	25.69	2.91	37.55	40.38	68.20	-27.82	HORIZONTAL	peak
3	4405.090	45.03	31.77	4.79	36.62	44.97	68.20	-23.23	HORIZONTAL	peak
4	7242.052	40.61	36.70	6.90	36.94	47.27	68.20	-20.93	HORIZONTAL	peak
5	11000.000	36.22	38.97	8.20	36.70	46.69	74.00	-27.31	HORIZONTAL	peak
6	16500.000	32.33	39.13	11.73	36.56	46.63	68.20	-21.57	HORIZONTAL	peak



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



race: (Discrete)

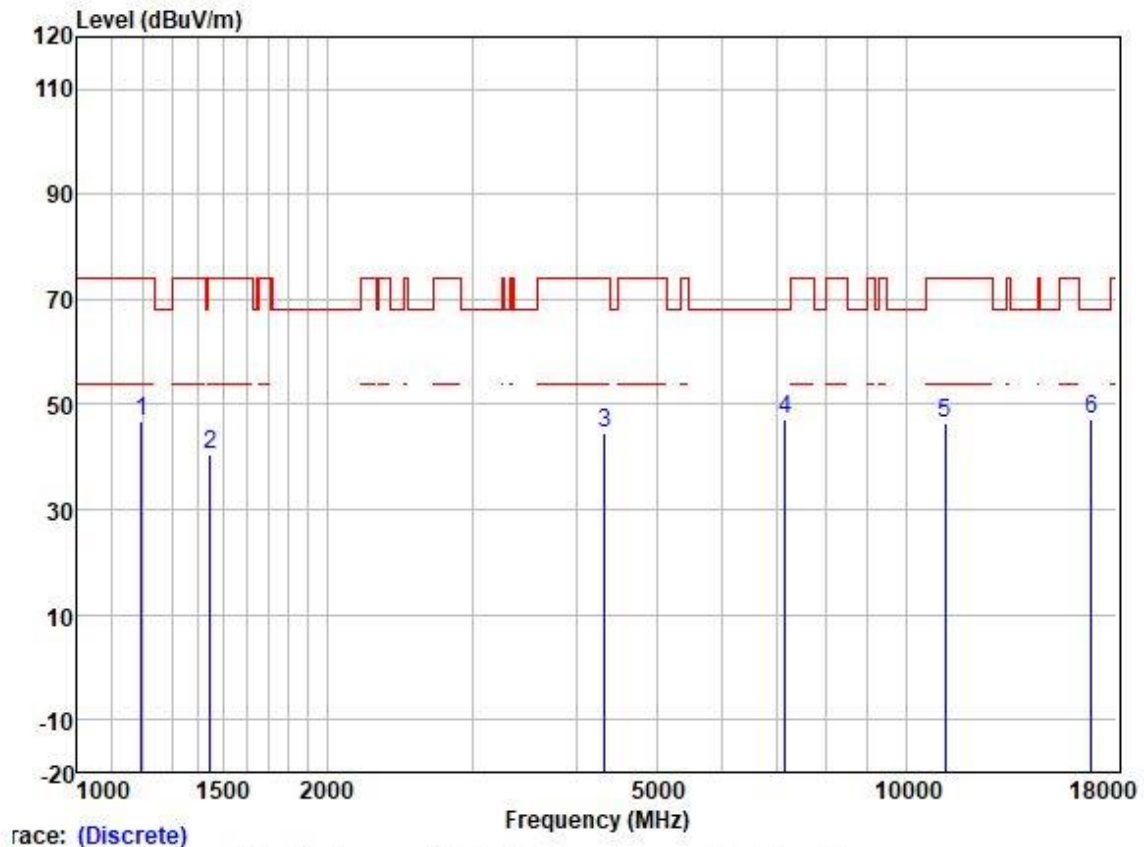
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1274.802	55.18	25.98	2.76	37.62	46.30	68.20	-21.90	VERTICAL	peak
2	1414.597	49.03	25.72	2.90	37.56	40.09	74.00	-33.91	VERTICAL	peak
3	4482.150	45.18	31.77	4.78	36.63	45.10	68.20	-23.10	VERTICAL	peak
4	7200.309	40.54	36.71	6.96	36.93	47.28	68.20	-20.92	VERTICAL	peak
5	11160.000	35.68	38.99	8.35	36.67	46.35	74.00	-27.65	VERTICAL	peak
6	16740.000	32.89	39.35	11.76	36.46	47.54	68.20	-20.66	VERTICAL	peak



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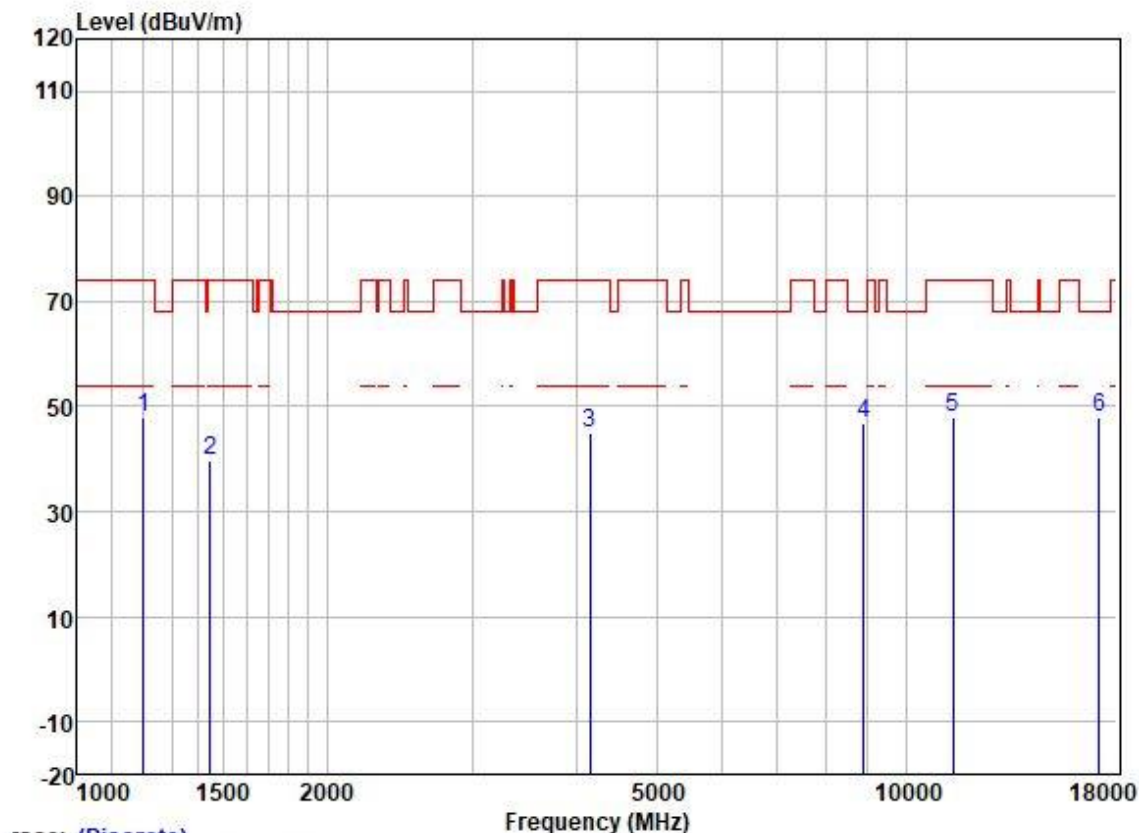
Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	56.12	25.89	2.55	37.64	46.92	74.00	-27.08	HORIZONTAL peak
2	1447.688	49.29	25.65	2.92	37.53	40.33	74.00	-33.67	HORIZONTAL peak
3	4329.354	44.81	31.64	4.81	36.62	44.64	74.00	-29.36	HORIZONTAL peak
4	7158.806	40.34	36.61	7.00	36.93	47.02	68.20	-21.18	HORIZONTAL peak
5	11160.000	35.86	38.99	8.35	36.67	46.53	74.00	-27.47	HORIZONTAL peak
6	16740.000	32.74	39.35	11.76	36.46	47.39	68.20	-20.81	HORIZONTAL peak



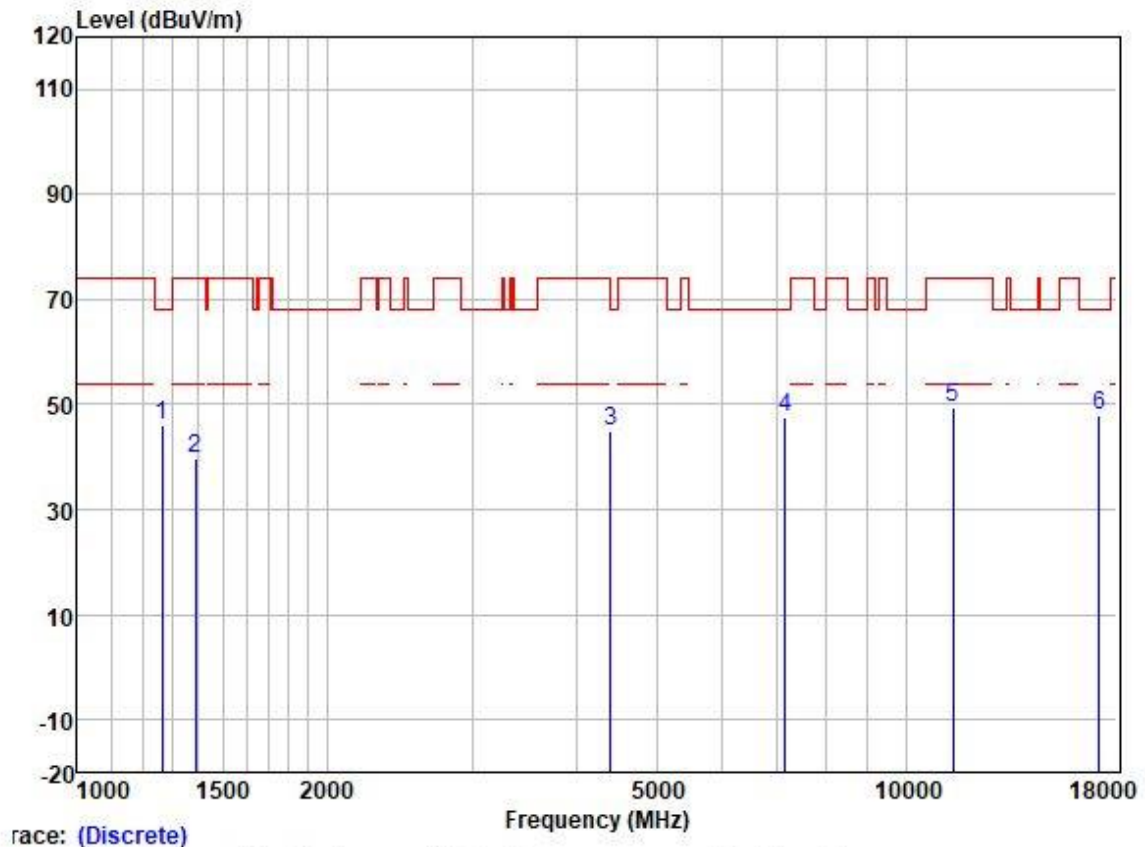
Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	57.16	25.90	2.57	37.64	47.99	74.00	-26.01	VERTICAL	peak
2	1447.688	48.86	25.65	2.92	37.53	39.90	74.00	-34.10	VERTICAL	peak
3	4157.664	45.65	31.23	4.86	36.61	45.13	74.00	-28.87	VERTICAL	peak
4	8891.725	38.60	37.99	7.23	36.93	46.89	68.20	-21.31	VERTICAL	peak
5	11400.000	36.78	39.02	8.65	36.64	47.81	74.00	-26.19	VERTICAL	peak
6	17100.000	32.81	39.44	11.89	36.18	47.96	68.20	-20.24	VERTICAL	peak

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

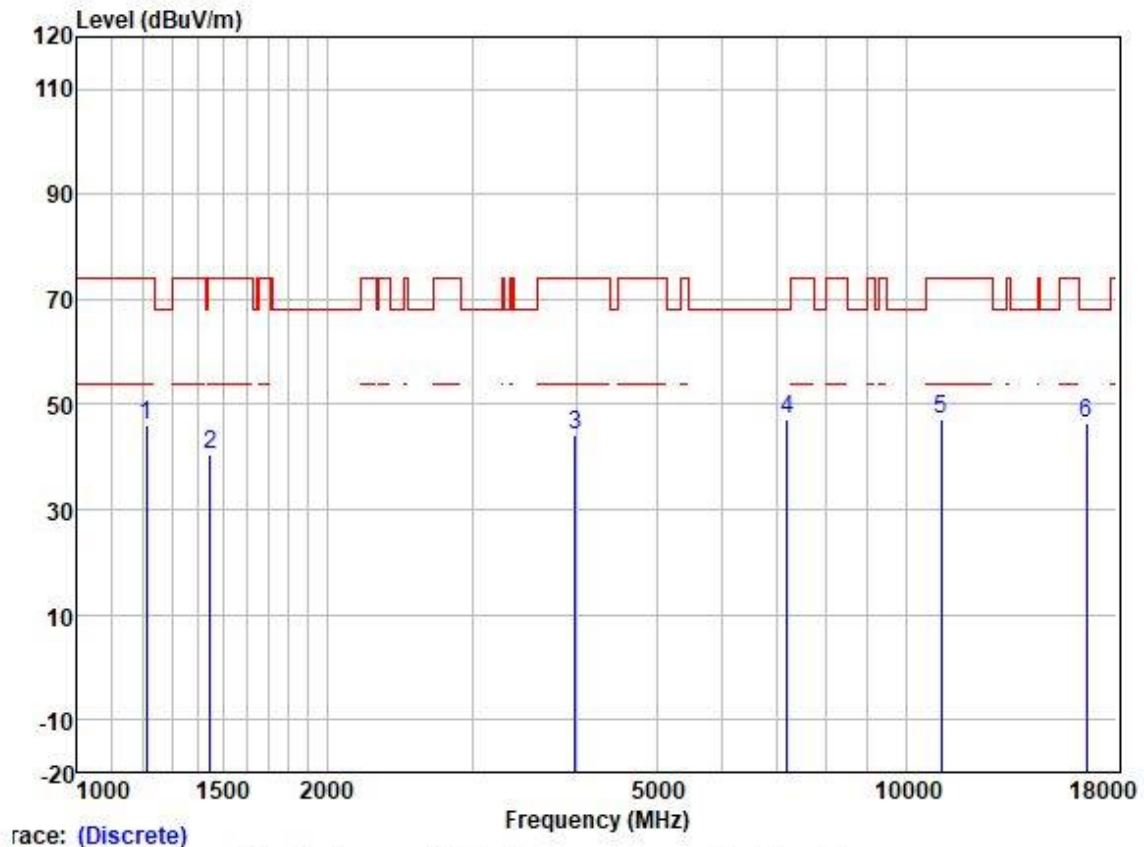


race: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	54.91	25.97	2.75	37.63	46.00	68.20	-22.20	HORIZONTAL peak
2	1390.276	48.71	25.76	2.88	37.57	39.78	74.00	-34.22	HORIZONTAL peak
3	4405.090	44.93	31.77	4.79	36.62	44.87	68.20	-23.33	HORIZONTAL peak
4	7158.806	40.86	36.61	7.00	36.93	47.54	68.20	-20.66	HORIZONTAL peak
5	11400.000	38.39	39.02	8.65	36.64	49.42	74.00	-24.58	HORIZONTAL peak
6	17100.000	32.88	39.44	11.89	36.18	48.03	68.20	-20.17	HORIZONTAL peak



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

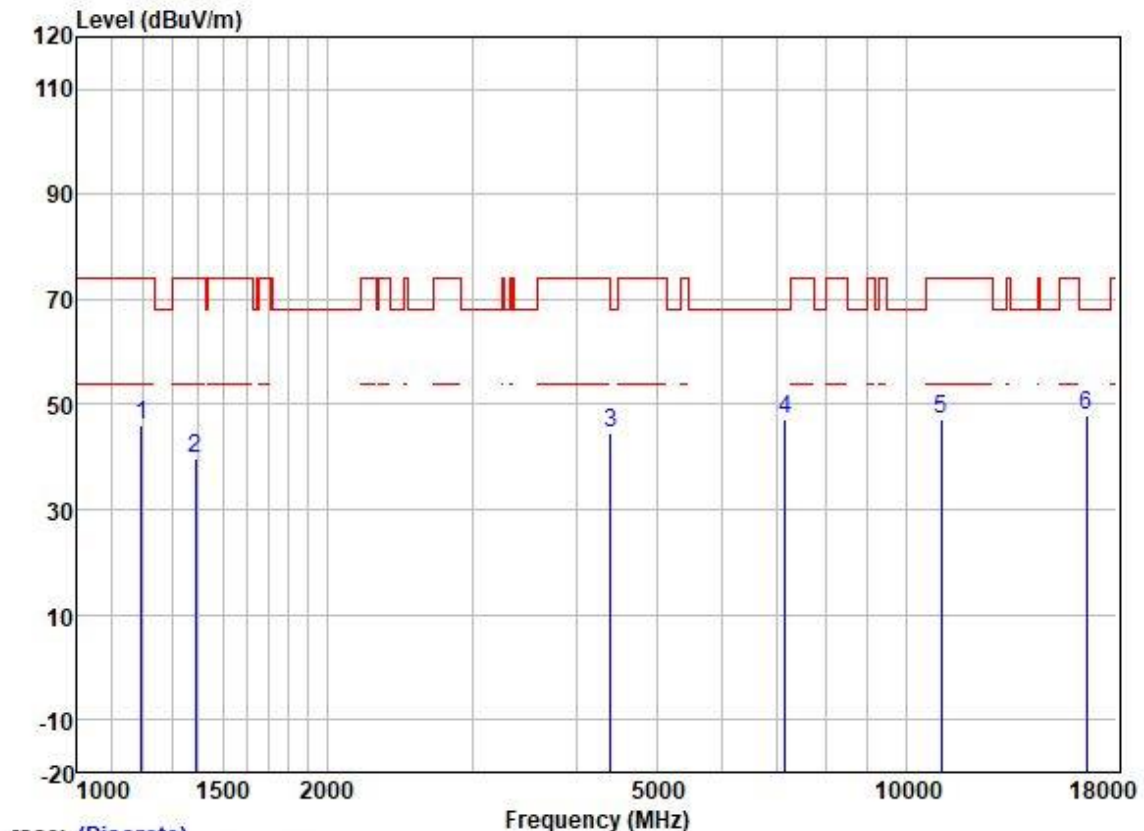


race: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1210.174	55.30	25.91	2.59	37.64	46.16	74.00	-27.84	VERTICAL peak
2	1447.688	49.60	25.65	2.92	37.53	40.64	74.00	-33.36	VERTICAL peak
3	3992.781	44.97	31.07	4.89	36.60	44.33	74.00	-29.67	VERTICAL peak
4	7200.309	40.43	36.71	6.96	36.93	47.17	68.20	-21.03	VERTICAL peak
5	11020.000	36.79	38.97	8.20	36.69	47.27	74.00	-26.73	VERTICAL peak
6	16530.000	32.24	39.15	11.73	36.55	46.57	68.20	-21.63	VERTICAL peak



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

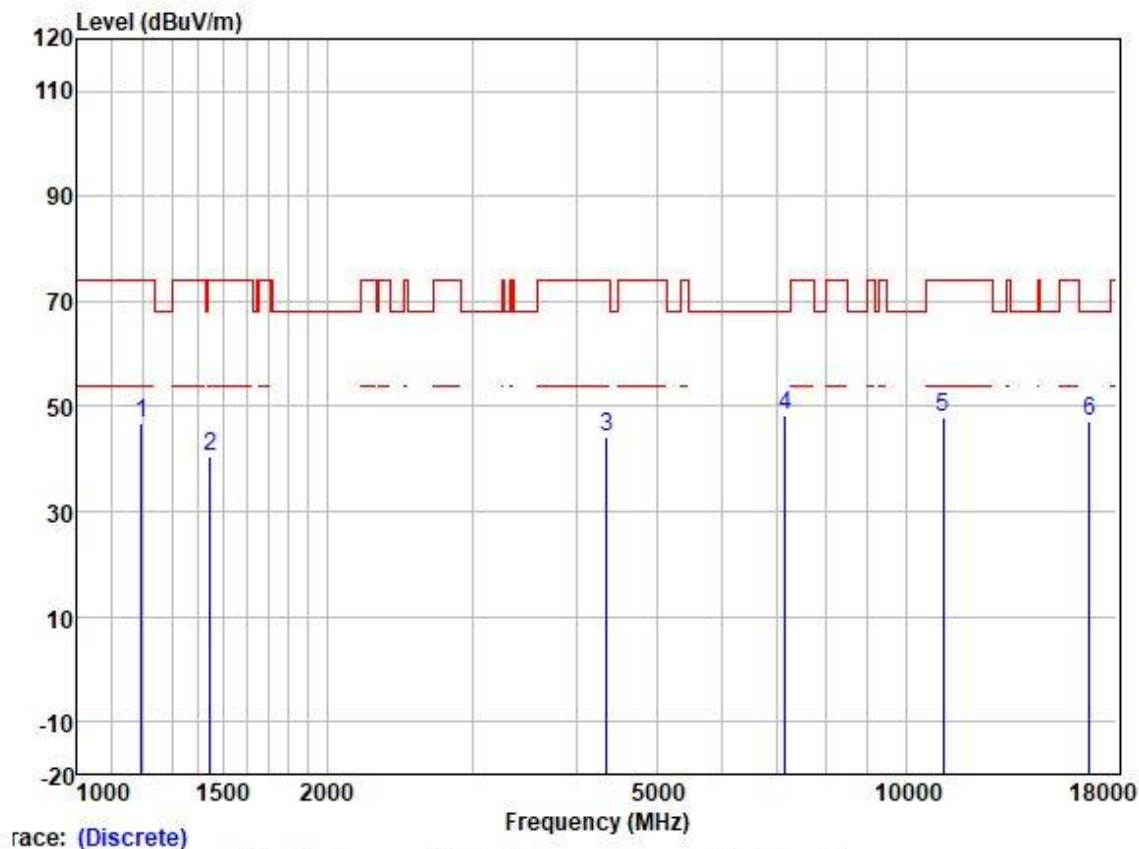


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	55.27	25.89	2.55	37.64	46.07	74.00	-27.93	HORIZONTAL	peak
2	1390.276	48.78	25.76	2.88	37.57	39.85	74.00	-34.15	HORIZONTAL	peak
3	4405.090	44.58	31.77	4.79	36.62	44.52	68.20	-23.68	HORIZONTAL	peak
4	7158.806	40.37	36.61	7.00	36.93	47.05	68.20	-21.15	HORIZONTAL	peak
5	11020.000	36.62	38.97	8.20	36.69	47.10	74.00	-26.90	HORIZONTAL	peak
6	16530.000	33.54	39.15	11.73	36.55	47.87	68.20	-20.33	HORIZONTAL	peak



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



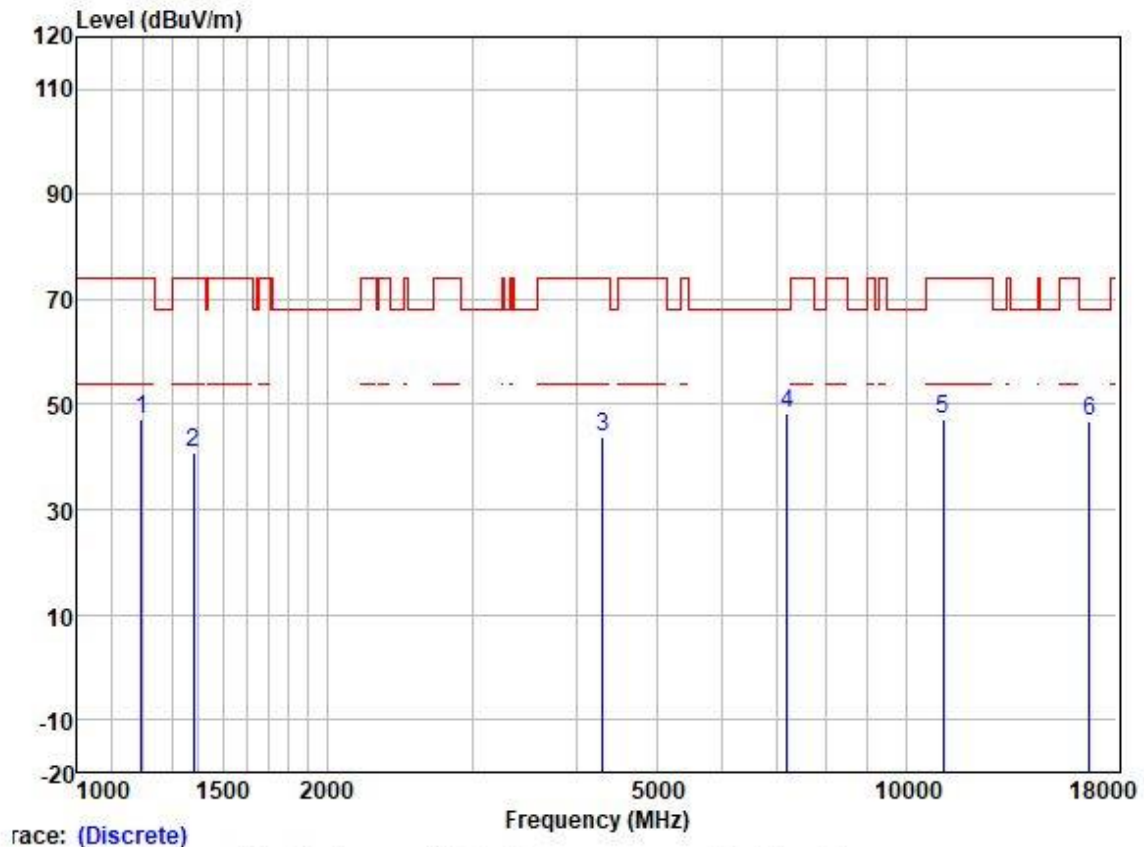
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	56.15	25.89	2.55	37.64	46.95	74.00	-27.05	VERTICAL peak
2	1447.688	49.28	25.65	2.92	37.53	40.32	74.00	-33.68	VERTICAL peak
3	4354.454	44.33	31.69	4.80	36.62	44.20	74.00	-29.80	VERTICAL peak
4	7158.806	41.60	36.61	7.00	36.93	48.28	68.20	-19.92	VERTICAL peak
5	11100.000	37.27	38.96	8.29	36.68	47.84	74.00	-26.16	VERTICAL peak
6	16650.000	32.67	39.26	11.74	36.49	47.18	68.20	-21.02	VERTICAL peak



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

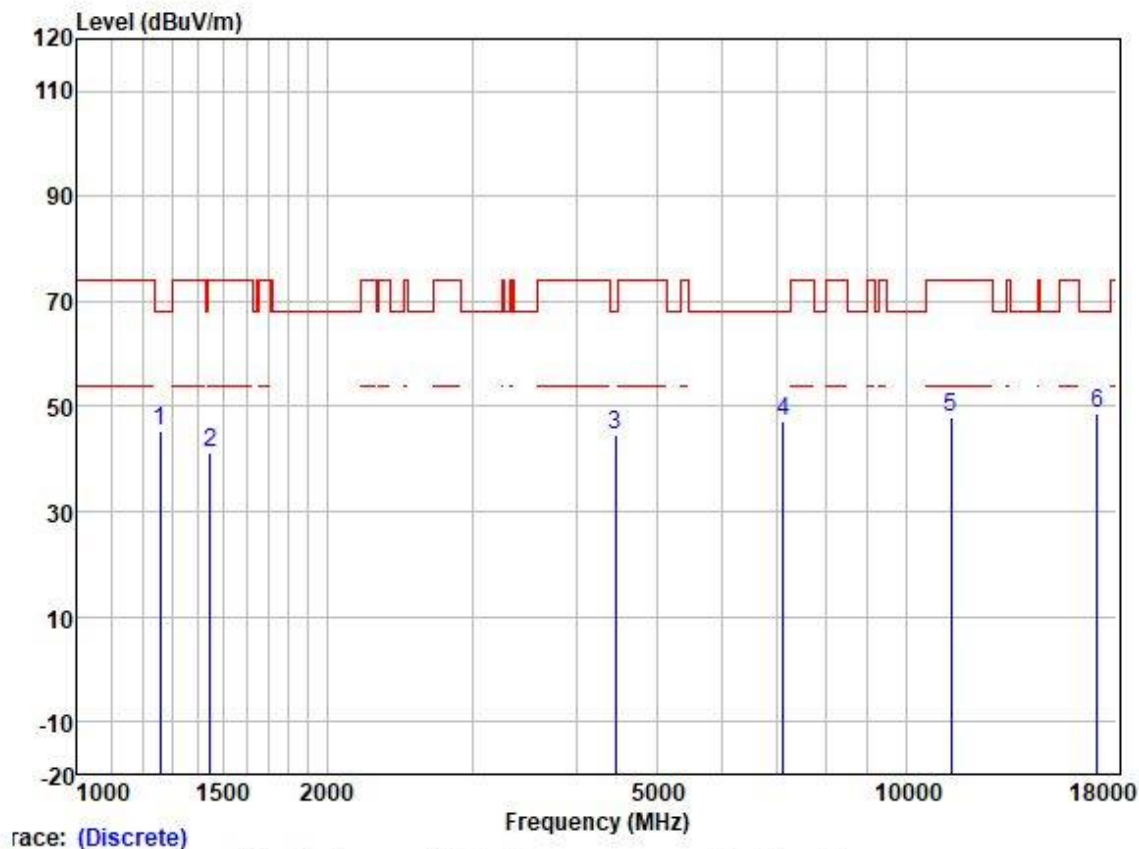


race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1196.264	56.55	25.89	2.55	37.64	47.35	74.00	-26.65	HORIZONTAL	peak
2	1382.262	49.96	25.77	2.88	37.57	41.04	74.00	-32.96	HORIZONTAL	peak
3	4304.400	44.15	31.60	4.81	36.62	43.94	74.00	-30.06	HORIZONTAL	peak
4	7200.309	41.56	36.71	6.96	36.93	48.30	68.20	-19.90	HORIZONTAL	peak
5	11100.000	36.73	38.96	8.29	36.68	47.30	74.00	-26.70	HORIZONTAL	peak
6	16650.000	32.30	39.26	11.74	36.49	46.81	68.20	-21.39	HORIZONTAL	peak



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

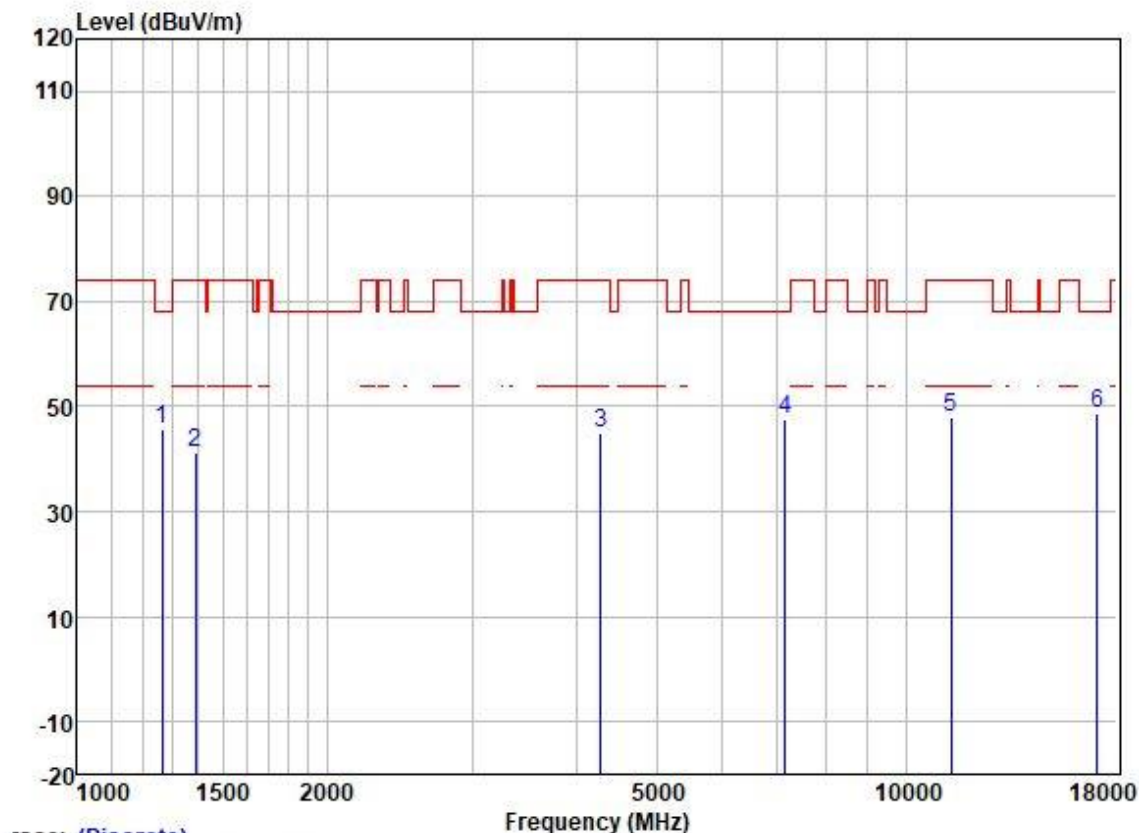


race: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1260.149	54.11	25.96	2.74	37.63	45.18	68.20	-23.02	VERTICAL peak
2	1447.688	50.07	25.65	2.92	37.53	41.11	74.00	-32.89	VERTICAL peak
3	4456.315	44.65	31.77	4.79	36.63	44.58	68.20	-23.62	VERTICAL peak
4	7117.542	40.65	36.47	7.04	36.92	47.24	68.20	-20.96	VERTICAL peak
5	11340.000	36.82	39.02	8.57	36.65	47.76	74.00	-26.24	VERTICAL peak
6	17010.000	34.06	39.28	11.78	36.25	48.87	68.20	-19.33	VERTICAL peak



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

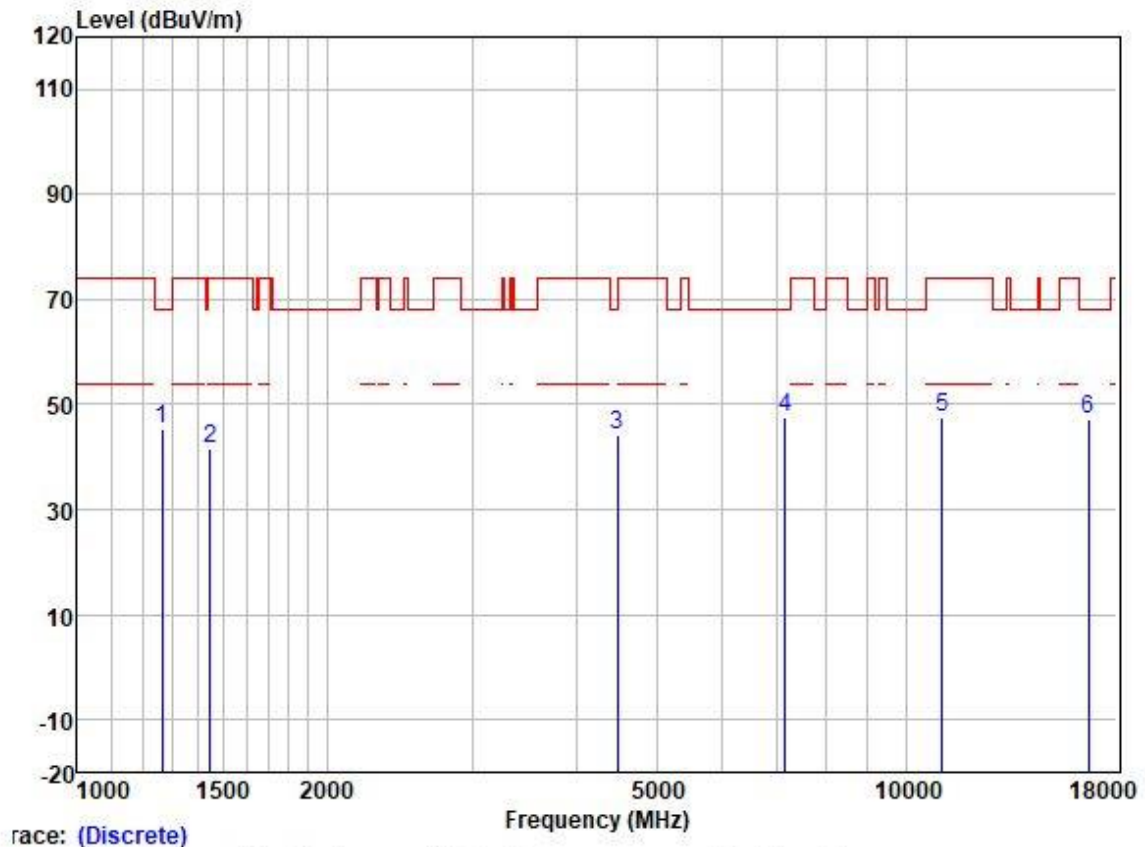


race: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	54.53	25.97	2.75	37.63	45.62	68.20	-22.58	HORIZONTAL peak
2	1390.276	50.03	25.76	2.88	37.57	41.10	74.00	-32.90	HORIZONTAL peak
3	4279.589	45.17	31.53	4.82	36.62	44.90	74.00	-29.10	HORIZONTAL peak
4	7158.806	40.91	36.61	7.00	36.93	47.59	68.20	-20.61	HORIZONTAL peak
5	11340.000	36.94	39.02	8.57	36.65	47.88	74.00	-26.12	HORIZONTAL peak
6	17010.000	33.90	39.28	11.78	36.25	48.71	68.20	-19.49	HORIZONTAL peak



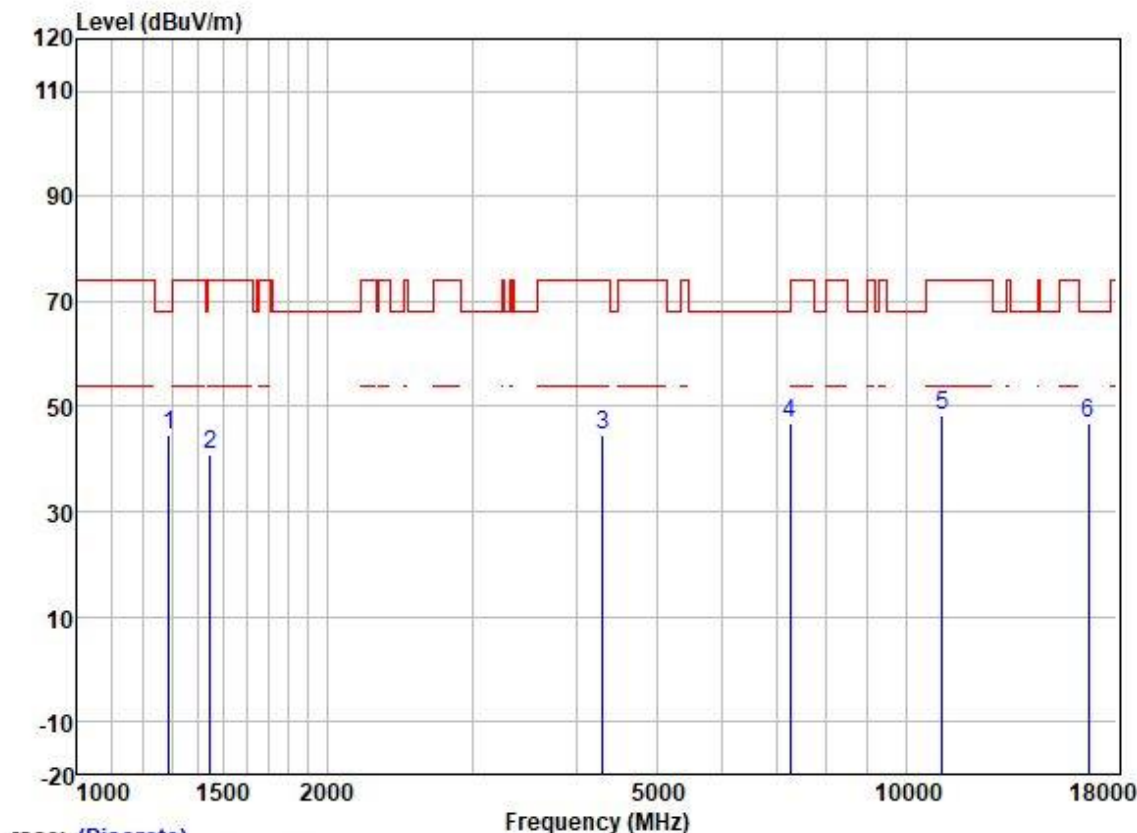
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	54.22	25.97	2.75	37.63	45.31	68.20	-22.89	VERTICAL peak
2	1447.688	50.56	25.65	2.92	37.53	41.60	74.00	-32.40	VERTICAL peak
3	4482.150	44.31	31.77	4.78	36.63	44.23	68.20	-23.97	VERTICAL peak
4	7158.806	40.82	36.61	7.00	36.93	47.50	68.20	-20.70	VERTICAL peak
5	11060.000	37.18	38.97	8.23	36.68	47.70	74.00	-26.30	VERTICAL peak
6	16590.000	32.88	39.17	11.74	36.53	47.26	68.20	-20.94	VERTICAL peak



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

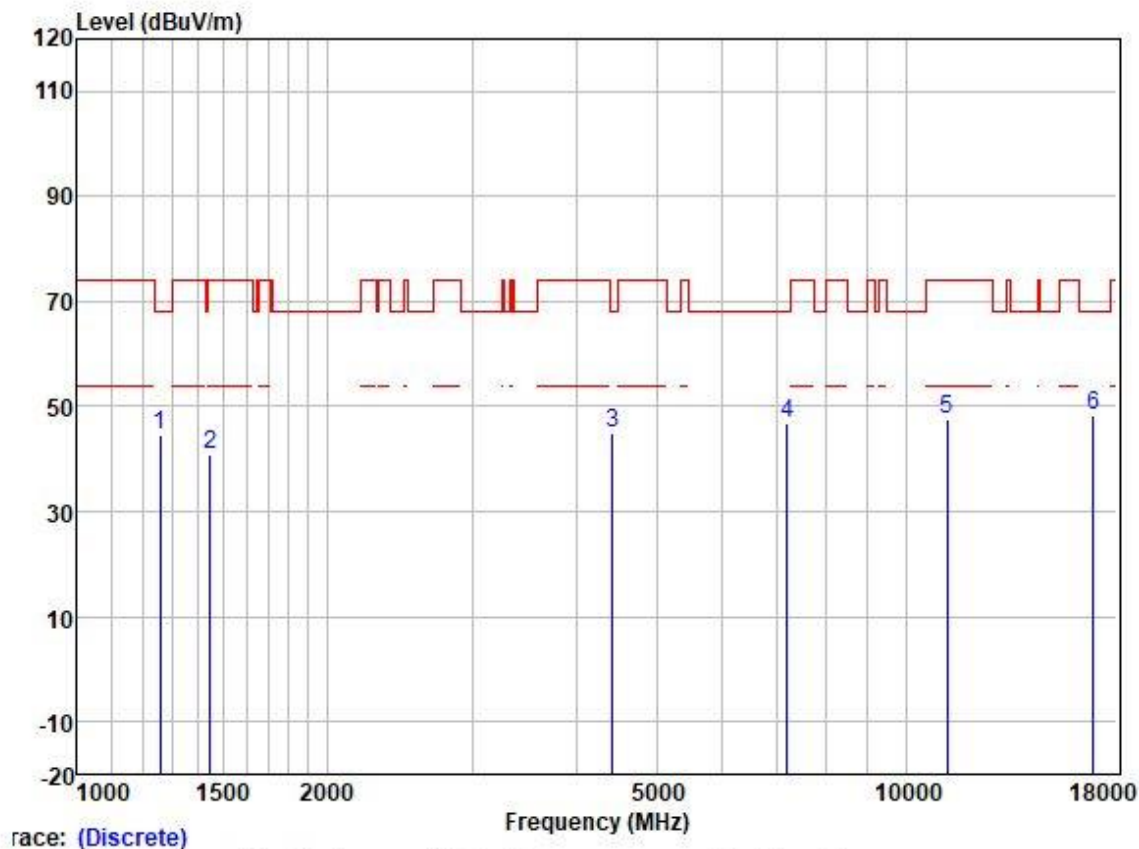


race: (Discrete)

	Freq	ReadAntenna		Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	53.54	25.99	2.79	37.62	44.70	68.20	-23.50	HORIZONTAL	peak
2	1447.688	49.63	25.65	2.92	37.53	40.67	74.00	-33.33	HORIZONTAL	peak
3	4304.400	44.85	31.60	4.81	36.62	44.64	74.00	-29.36	HORIZONTAL	peak
4	7242.052	40.02	36.70	6.90	36.94	46.68	68.20	-21.52	HORIZONTAL	peak
5	11060.000	37.84	38.97	8.23	36.68	48.36	74.00	-25.64	HORIZONTAL	peak
6	16590.000	32.50	39.17	11.74	36.53	46.88	68.20	-21.32	HORIZONTAL	peak

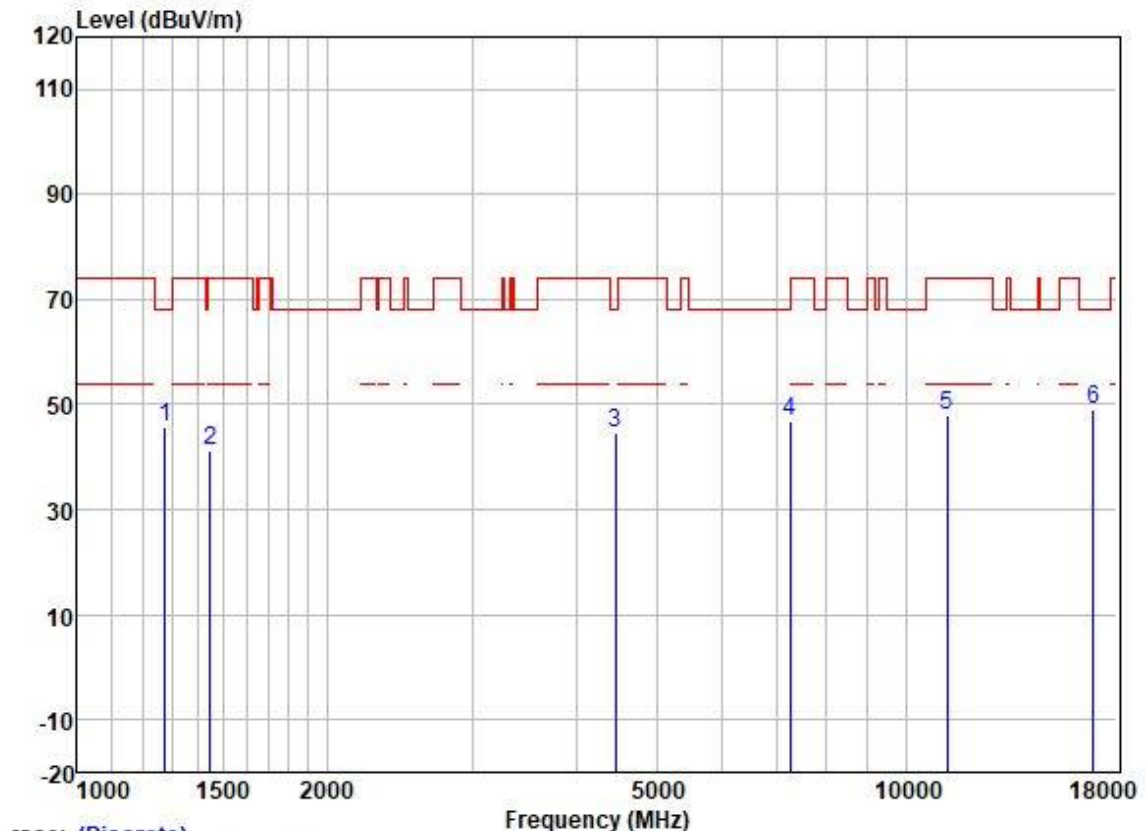


Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1260.149	53.47	25.96	2.74	37.63	44.54	68.20	-23.66	VERTICAL peak
2	1447.688	49.77	25.65	2.92	37.53	40.81	74.00	-33.19	VERTICAL peak
3	4430.628	45.15	31.77	4.79	36.63	45.08	68.20	-23.12	VERTICAL peak
4	7200.309	39.95	36.71	6.96	36.93	46.69	68.20	-21.51	VERTICAL peak
5	11220.000	36.71	39.00	8.39	36.66	47.44	74.00	-26.56	VERTICAL peak
6	16830.000	33.81	39.26	11.77	36.40	48.44	68.20	-19.76	VERTICAL peak

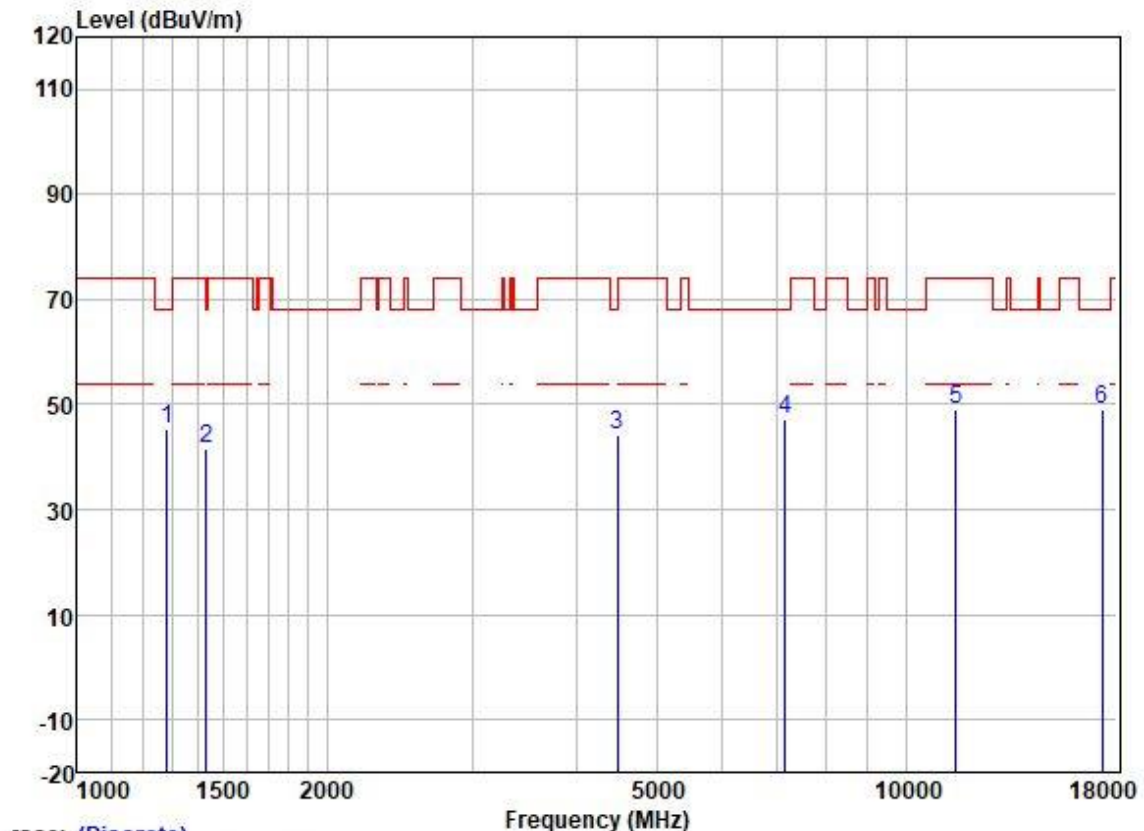
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1274.802	54.51	25.98	2.76	37.62	45.63	68.20	-22.57	HORIZONTAL peak
2	1447.688	50.23	25.65	2.92	37.53	41.27	74.00	-32.73	HORIZONTAL peak
3	4456.315	44.82	31.77	4.79	36.63	44.75	68.20	-23.45	HORIZONTAL peak
4	7242.052	40.30	36.70	6.90	36.94	46.96	68.20	-21.24	HORIZONTAL peak
5	11220.000	37.17	39.00	8.39	36.66	47.90	74.00	-26.10	HORIZONTAL peak
6	16830.000	34.50	39.26	11.77	36.40	49.13	68.20	-19.07	HORIZONTAL peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

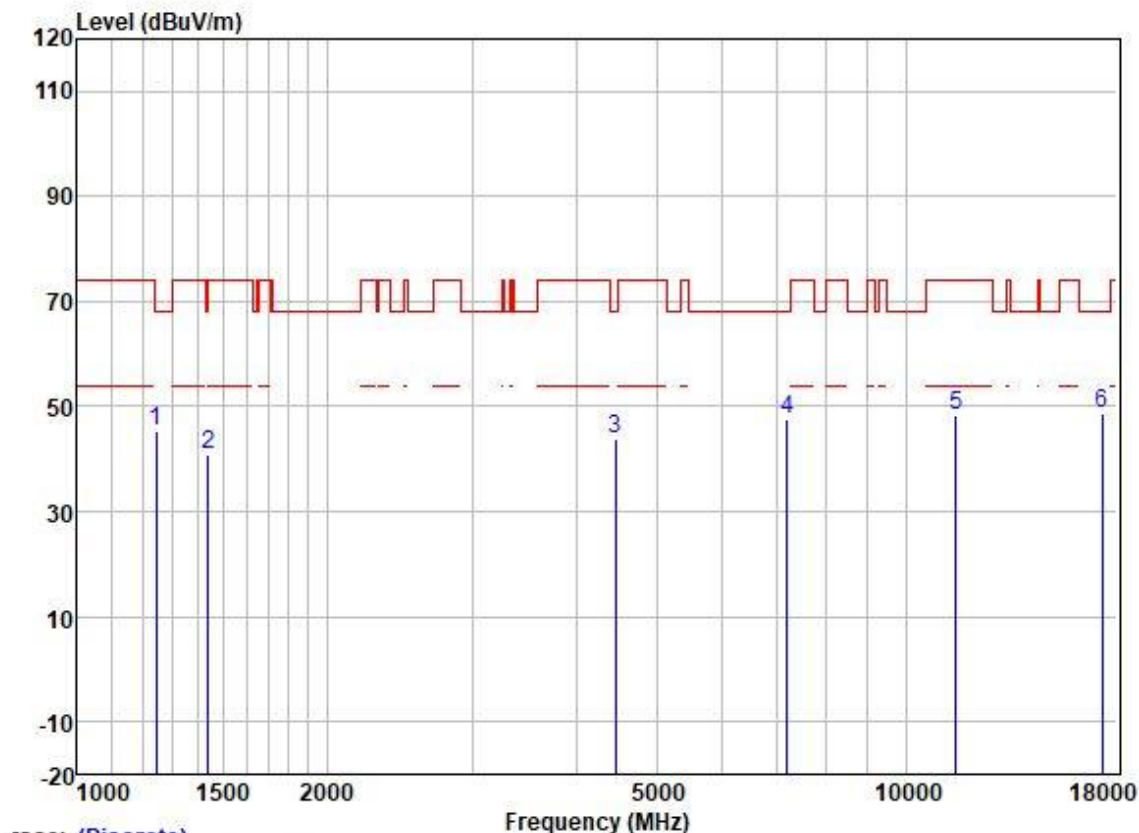
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1282.193	54.15	25.99	2.78	37.62	45.30	68.20	-22.90	VERTICAL	peak
2	1431.047	50.55	25.69	2.91	37.55	41.60	68.20	-26.60	VERTICAL	peak
3	4482.150	44.15	31.77	4.78	36.63	44.07	68.20	-24.13	VERTICAL	peak
4	7158.806	40.70	36.61	7.00	36.93	47.38	68.20	-20.82	VERTICAL	peak
5	11490.000	38.10	38.86	8.75	36.63	49.08	74.00	-24.92	VERTICAL	peak
6	17235.000	33.34	39.72	12.09	36.07	49.08	68.20	-19.12	VERTICAL	peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

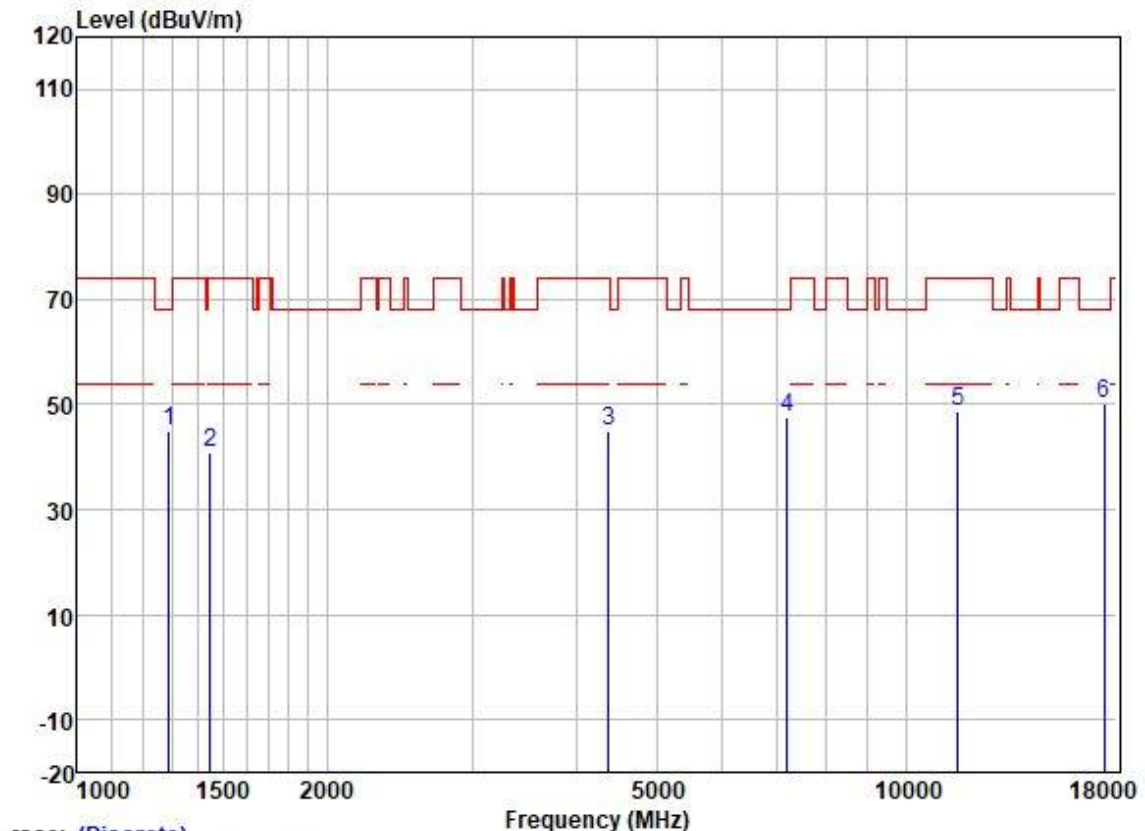


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1245.663	54.21	25.94	2.70	37.63	45.22	68.20	-22.98	HORIZONTAL	peak
2	1439.343	49.80	25.67	2.91	37.55	40.83	74.00	-33.17	HORIZONTAL	peak
3	4456.315	44.08	31.77	4.79	36.63	44.01	68.20	-24.19	HORIZONTAL	peak
4	7200.309	40.86	36.71	6.96	36.93	47.60	68.20	-20.60	HORIZONTAL	peak
5	11490.000	37.32	38.86	8.75	36.63	48.30	74.00	-25.70	HORIZONTAL	peak
6	17235.000	32.91	39.72	12.09	36.07	48.65	68.20	-19.55	HORIZONTAL	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

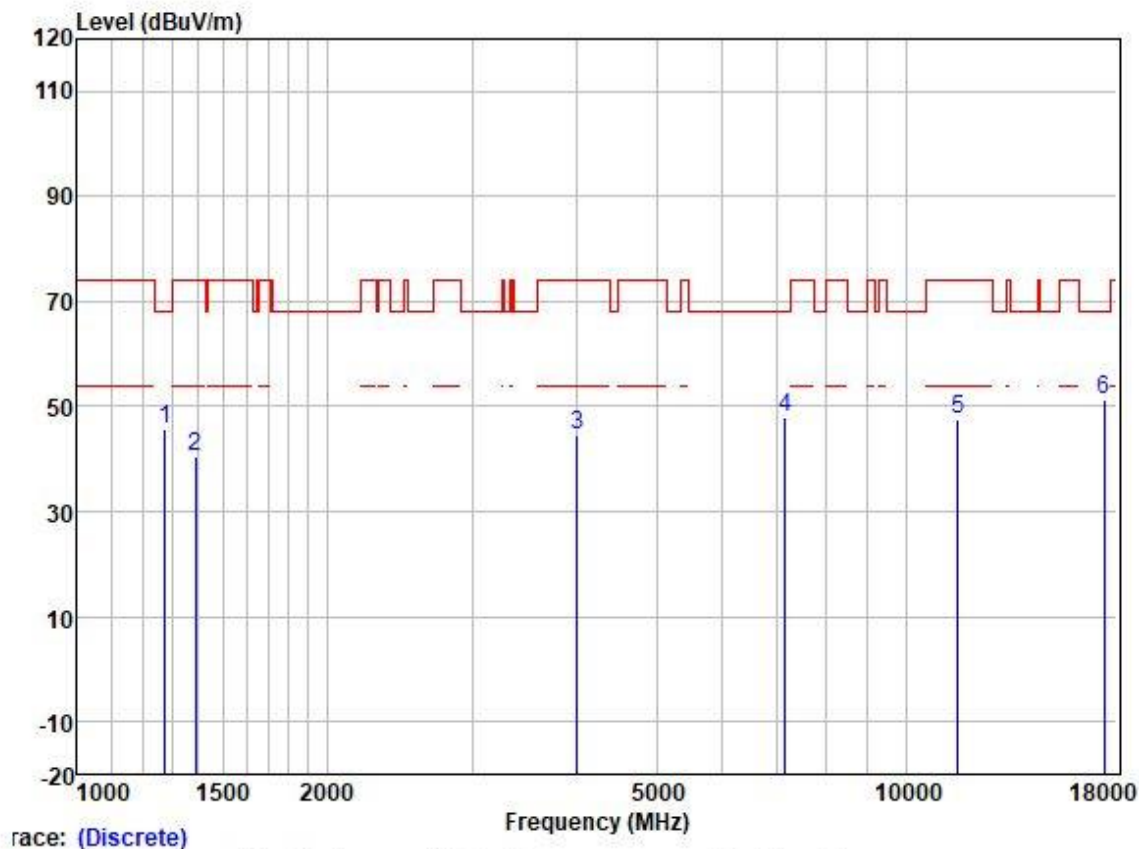


race: (Discrete)

	Freq	ReadAntenna		Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	53.71	25.99	2.79	37.62	44.87	68.20	-23.33	VERTICAL	peak
2	1447.688	49.87	25.65	2.92	37.53	40.91	74.00	-33.09	VERTICAL	peak
3	4379.699	45.23	31.73	4.80	36.62	45.14	74.00	-28.86	VERTICAL	peak
4	7200.309	40.66	36.71	6.96	36.93	47.40	68.20	-20.80	VERTICAL	peak
5	11570.000	37.73	38.73	8.88	36.62	48.72	74.00	-25.28	VERTICAL	peak
6	17355.000	34.14	39.99	12.22	36.01	50.34	68.20	-17.86	VERTICAL	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

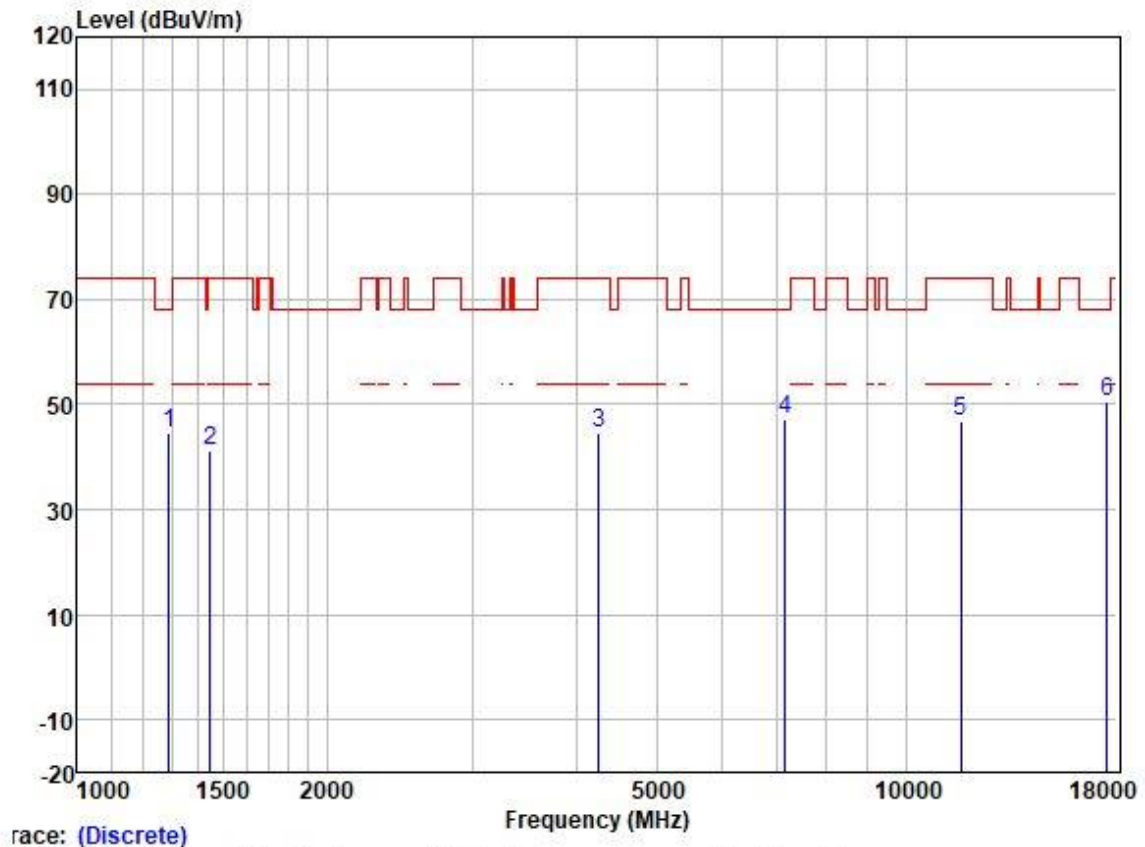


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1274.802	54.53	25.98	2.76	37.62	45.65	68.20	-22.55	HORIZONTAL	peak
2	1390.276	49.49	25.76	2.88	37.57	40.56	74.00	-33.44	HORIZONTAL	peak
3	4015.929	45.29	31.08	4.89	36.60	44.66	74.00	-29.34	HORIZONTAL	peak
4	7158.806	41.34	36.61	7.00	36.93	48.02	68.20	-20.18	HORIZONTAL	peak
5	11570.000	36.65	38.73	8.88	36.62	47.64	74.00	-26.36	HORIZONTAL	peak
6	17355.000	35.12	39.99	12.22	36.01	51.32	68.20	-16.88	HORIZONTAL	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

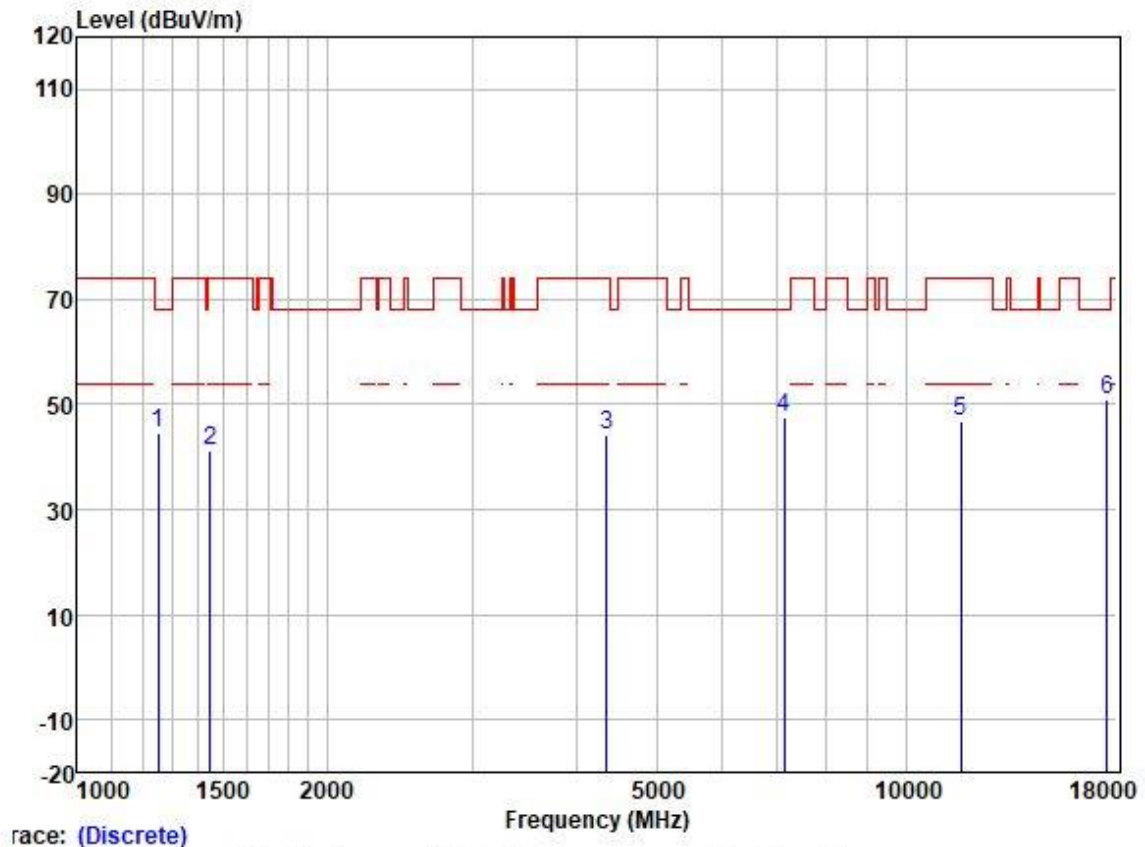


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	53.39	25.99	2.79	37.62	44.55	68.20	-23.65	VERTICAL	peak
2	1447.688	50.08	25.65	2.92	37.53	41.12	74.00	-32.88	VERTICAL	peak
3	4254.921	45.00	31.45	4.83	36.61	44.67	74.00	-29.33	VERTICAL	peak
4	7158.806	40.43	36.61	7.00	36.93	47.11	68.20	-21.09	VERTICAL	peak
5	11650.000	35.61	38.64	9.04	36.62	46.67	74.00	-27.33	VERTICAL	peak
6	17475.000	33.77	40.38	12.39	35.96	50.58	68.20	-17.62	VERTICAL	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1252.885	53.67	25.96	2.72	37.63	44.72	68.20	-23.48	HORIZONTAL	peak
2	1447.688	50.06	25.65	2.92	37.53	41.10	74.00	-32.90	HORIZONTAL	peak
3	4354.454	44.50	31.69	4.80	36.62	44.37	74.00	-29.63	HORIZONTAL	peak
4	7138.144	40.87	36.55	7.02	36.93	47.51	68.20	-20.69	HORIZONTAL	peak
5	11650.000	35.92	38.64	9.04	36.62	46.98	74.00	-27.02	HORIZONTAL	peak
6	17475.000	34.16	40.38	12.39	35.96	50.97	68.20	-17.23	HORIZONTAL	peak

