

TEST REPORT

Application No.: KSCR2208001448AT
FCC ID: SVNDH-IPC-WL46A
IC: 29520-IPCL46
Applicant: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.
Address of Applicant: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Manufacturer: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.
Address of Manufacturer: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Equipment Under Test (EUT):
EUT Name: IP CAMERA
Model No.: Refer to Page 2 ♣
Remark ♣: Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2022-08-20
Date of Test: 2022-08-31 to 2022-09-19
Date of Issue: 2022-09-21

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

Eric Lin

Eric Lin
Laboratory Manager



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800144802

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Model No.:

For FCC:

DH-IPC-WL46A; DH-IPC-WL46AP-0280B; DH-IPC-WL46AN-0280B;

IPC-WL46AN-0280B; IPC-WL46A; IPC-WL46AP-0280B; IPC-WL46A;

DH-IPC-WL46AN-0280B-USA; IPC-L46N-USA;

DH-IPC-WL46AN-0280B-CAN; IPC-L46N-CAN; IPC-WL46AN-0280B-CAN; IPC-WL46A

For IC:

IPC-L46N-CAN



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-09-21	/

Authorized for issue by:			
		Damon Zhou	
		Damon Zhou/Project Engineer	
		Eric Lin	
		Eric Lin /Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.207 & 15.407 b(6)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass
99% Bandwidth	N/A	RSS-Gen Section 6.7	KDB 789033 II D	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1(1)	KDB 789033 D02 II C 1	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart E 15.407 (e)	RSS-247 Section 6.2.4	KDB 789033 D02 II C 2	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II E	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II F	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407 (g)	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model IPC-L46N-CAN was tested since their differences were the model number and appearance.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 12V 1A
Test Voltage:	AC 120V/60Hz for adapter
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz
Moudulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Support TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna 1: 2.51dBi Antenna 2: 1.29dBi Directional gain: 4.95dBi (Provided by manufacturer)
S/N:	8G064E2YAZF597F
Firmware Version:	V1.0

Remark: For frequencies falling between 5150-5250 and 5600-5650MHz will not be used in Canada.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	-
Serial port adapter plate	-	Test Plate 3	-
Adapter	LGDD	TR60F	-

4.3 Power level setting using in test:

Channel	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT20)	802.11ac (HT40)	802.11ac (HT80)
UNII Band 1	14	10	10	10	10	10
UNII Band 2A	14	10	10	10	10	10
UNII Band 2C	14	10	10	10	10	10
UNII Band 3	14	10	10	10	10	10



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.6 Test Facility

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

• **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

• **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)					
EMI test receiver	R&S	ESR7	SHEM162-1	2021-12-20	2022-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2021-12-20	2022-12-19
LISN	EMCO	3816/2	SHEM019-1	2021-12-20	2022-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2021-12-20	2022-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2021-12-20	2022-12-19
CE test Cable	/	CE01	/	2022-01-07	2023-01-07
Test software	ESE	E3	Version: 6.111221a	/	/
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-12-20	2022-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2020-04-15	2023-04-14
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2021-12-20	2022-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01~RF04	/	2021-12-20	2022-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2021-12-20	2022-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2021-12-20	2022-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2021-06-09	2023-06-08
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2021-12-20	2022-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/



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Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2022-01-07	2023-01-06
Test software	ESE	E3	Version: 6.111221a	/	/



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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 a 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 PIFA antenna and no consideration of replacement. The best case gain of the Antenna 1: 2.51dBi; Antenna 2: 1.29dBi; the directional gain is: 4.95dBi.

Antenna location: Refer to internal photo.



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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

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C

Humidity: 55.0 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the



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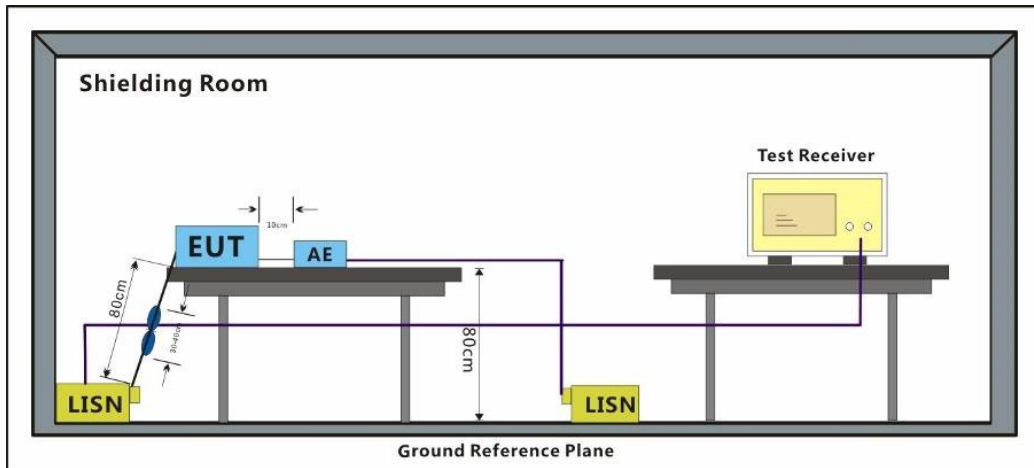
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		worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



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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

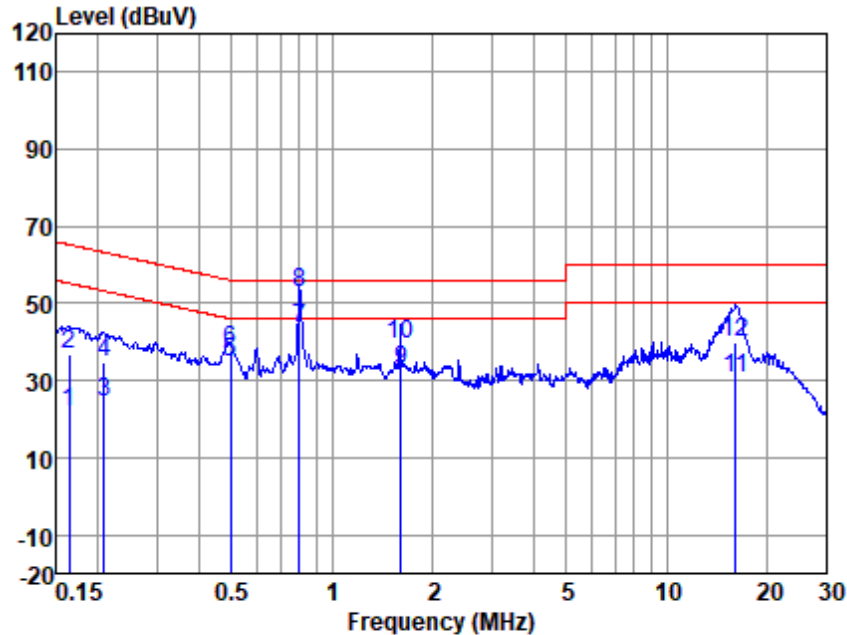


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Test Mode: 01; Line: Live line



LISN : LINE
EUT/Project No : 1448AT
Test Mode : 01

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.16	11.91	0.13	10.02	22.06	55.30	-33.24	Average
2	0.16	26.63	0.13	10.02	36.78	65.30	-28.52	QP
3	0.21	14.30	0.10	10.03	24.43	53.27	-28.84	Average
4	0.21	24.48	0.10	10.03	34.61	63.27	-28.66	QP
5	0.50	24.62	0.10	10.08	34.80	46.05	-11.25	Average
6	0.50	27.44	0.10	10.08	37.62	56.05	-18.43	QP
7	0.80	33.31	0.10	10.09	43.50	46.00	-2.50	Average
8	0.80	42.89	0.10	10.09	53.08	56.00	-2.92	QP
9	1.60	22.23	0.10	10.16	32.49	46.00	-13.51	Average
10	1.60	29.29	0.10	10.16	39.55	56.00	-16.45	QP
11	16.14	19.61	0.45	10.34	30.40	50.00	-19.60	Average
12	16.14	29.20	0.45	10.34	39.99	60.00	-20.01	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

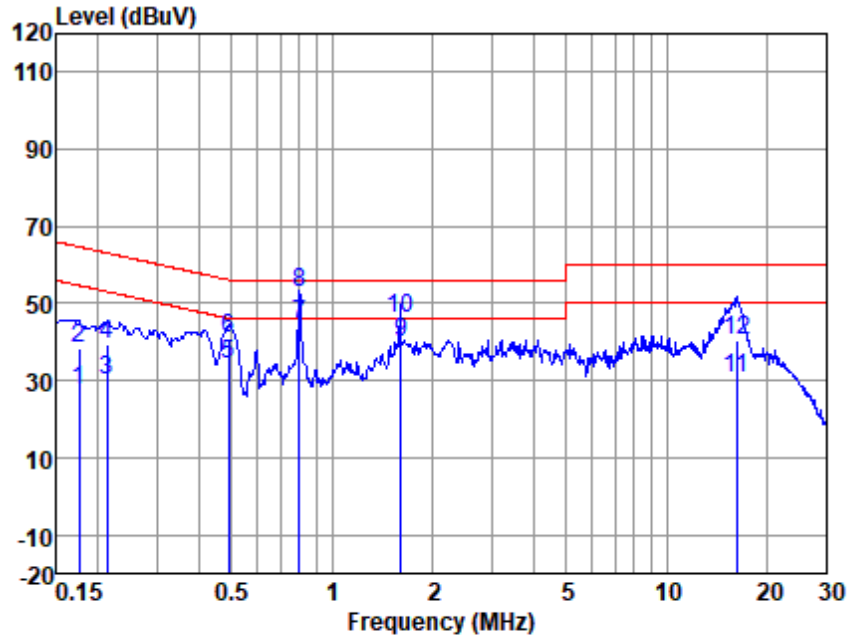


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Test Mode: 01; Line: Neutral Line



LISN : NEUTRAL
EUT/Project No : 1448AT
Test Mode : 01

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.17	17.19	0.10	10.02	27.31	54.72	-27.41	Average
2	0.17	28.39	0.10	10.02	38.51	64.72	-26.21	QP
3	0.21	19.75	0.10	10.03	29.88	53.10	-23.22	Average
4	0.21	29.38	0.10	10.03	39.51	63.10	-23.59	QP
5	0.49	24.02	0.10	10.08	34.20	46.19	-11.99	Average
6	0.49	30.75	0.10	10.08	40.93	56.19	-15.26	QP
7	0.80	34.50	0.10	10.09	44.69	46.00	-1.31	Average
8	0.80	42.60	0.10	10.09	52.79	56.00	-3.21	QP
9	1.60	29.84	0.10	10.16	40.10	46.00	-5.90	Average
10	1.60	35.98	0.10	10.16	46.24	56.00	-9.76	QP
11	16.23	19.95	0.43	10.34	30.72	50.00	-19.28	Average
12	16.23	29.86	0.43	10.34	40.63	60.00	-19.37	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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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: 26.1 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



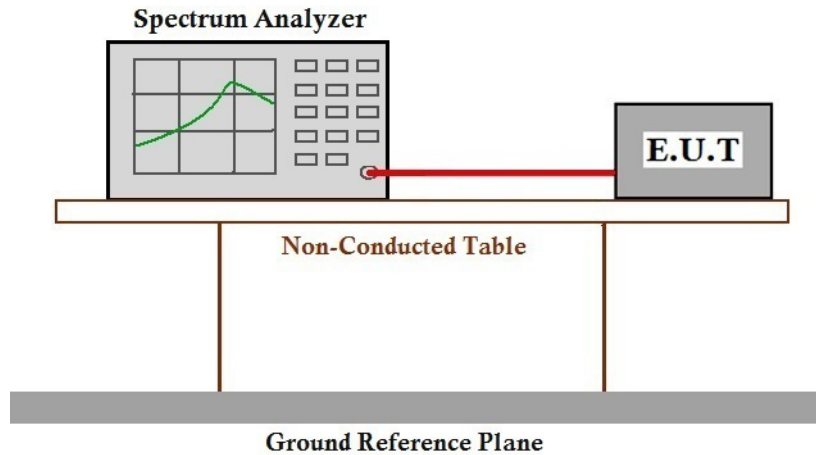
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 26.0 °C Humidity: 55.0 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

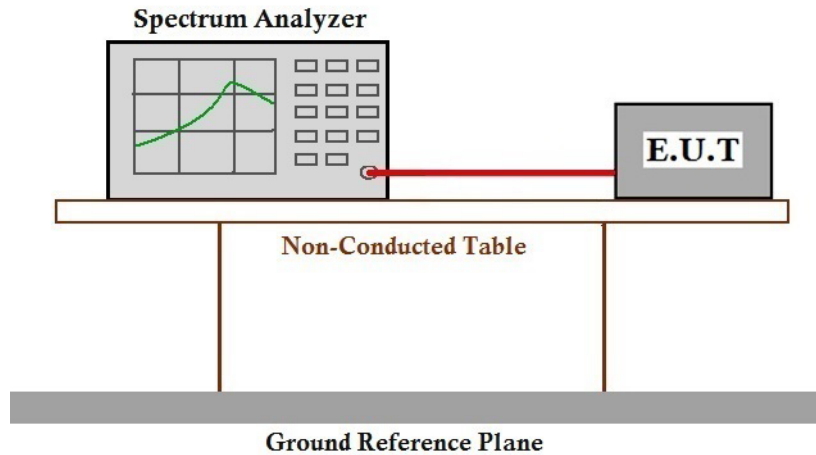


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7.3.3 Test Setup Diagram



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 E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C

Humidity: 55.2 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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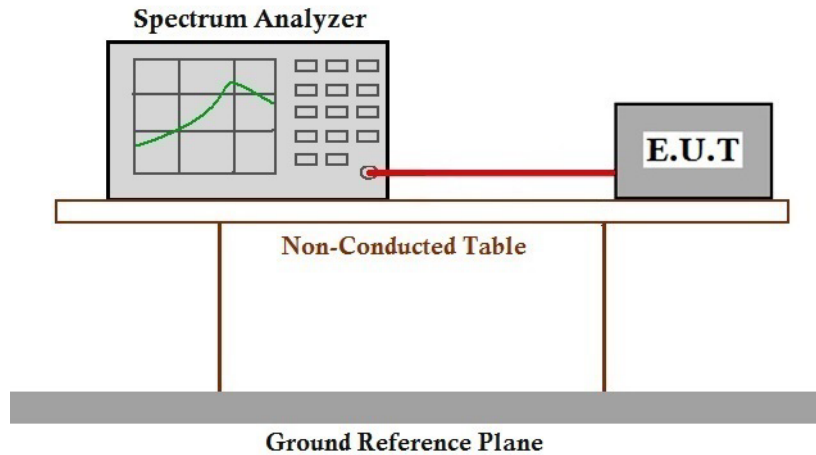
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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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: 26.1 °C

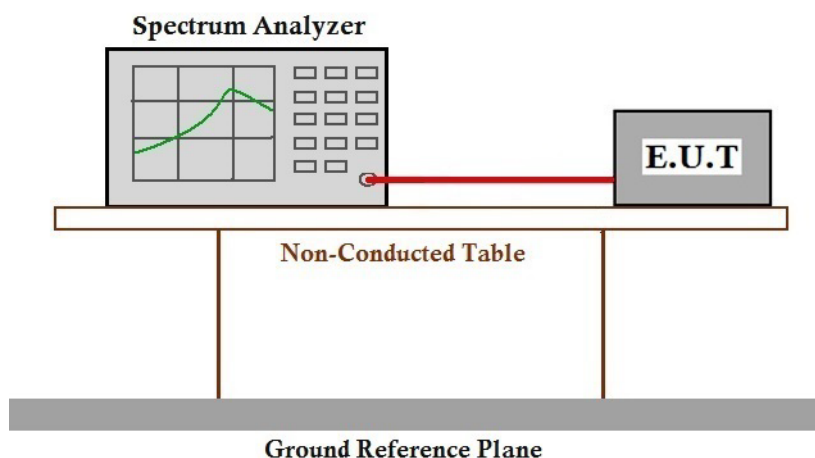
Humidity: 55.2 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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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) 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: 26.1 °C

Humidity: 55.2 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the



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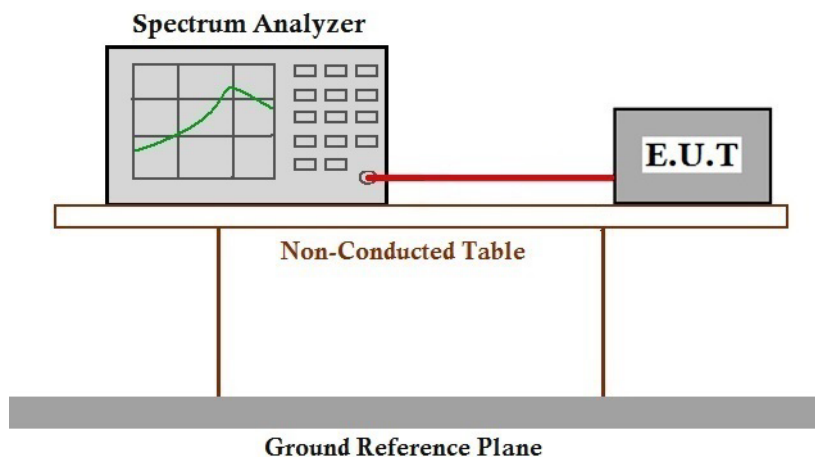
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		report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. 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.

Please Refer to Appendix for Details



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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: 26.1 °C

Humidity: 55.1 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the



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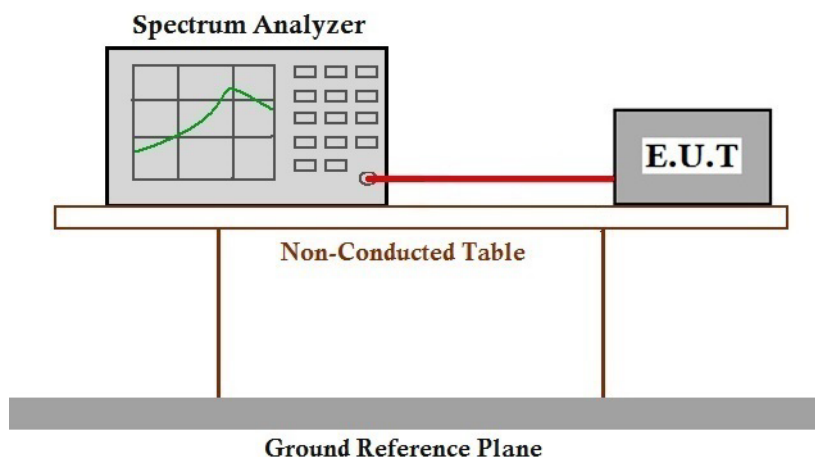
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		worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. 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 (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.		

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C

Humidity: 55.0 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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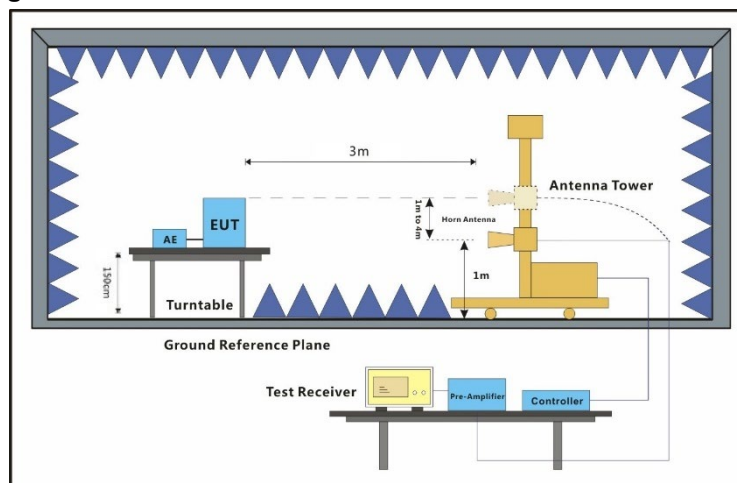
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Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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7.8.4 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. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



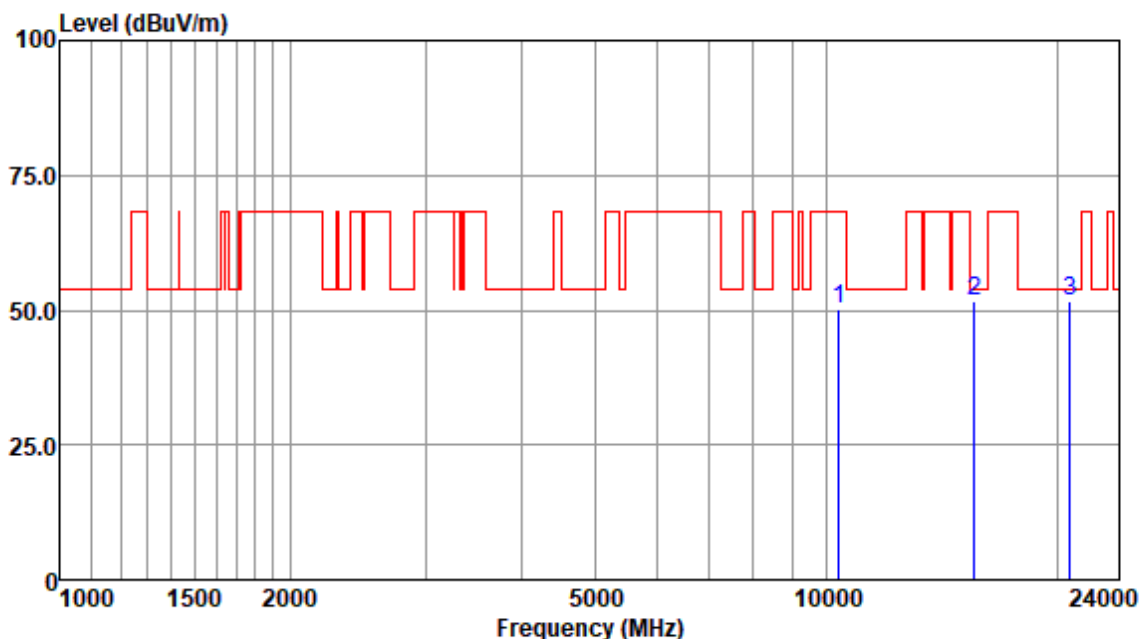
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.00	43.08	34.93	6.53	34.40	50.14	68.20	-18.06	Peak
15540.00	40.96	37.43	9.99	36.78	51.60	54.00	-2.40	Peak
20720.00	32.48	43.41	11.90	36.05	51.74	54.00	-2.26	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

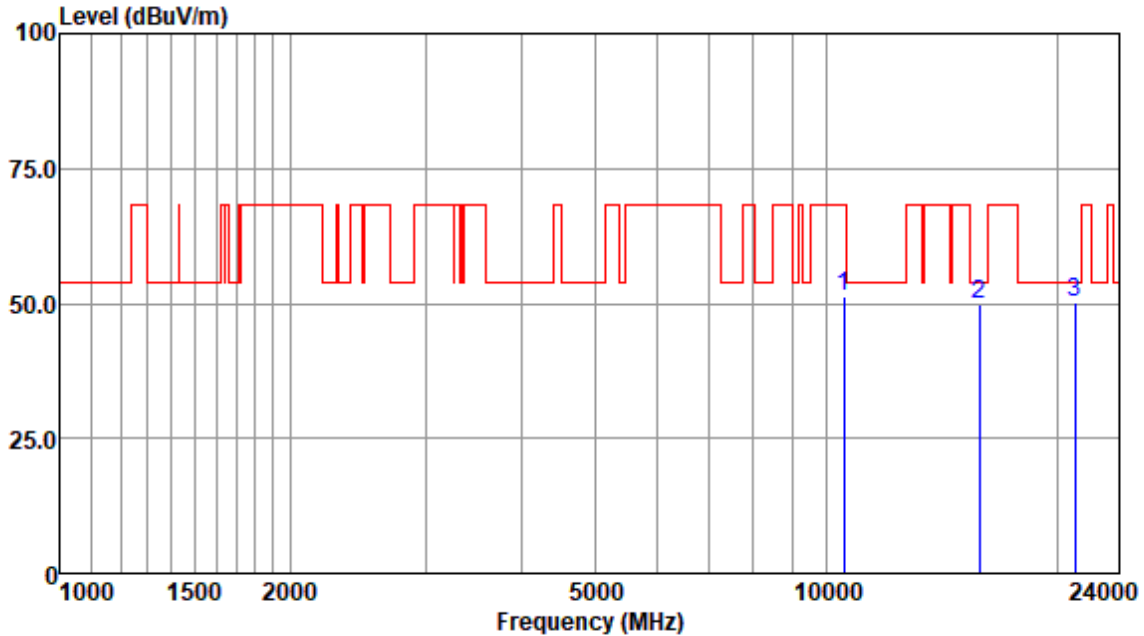


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10520.00	44.19	34.98	6.60	34.51	51.26	68.20	-16.94	Peak
15780.00	39.38	37.56	9.48	36.55	49.87	54.00	-4.13	Peak
21040.00	30.58	43.58	12.07	36.06	50.17	54.00	-3.83	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

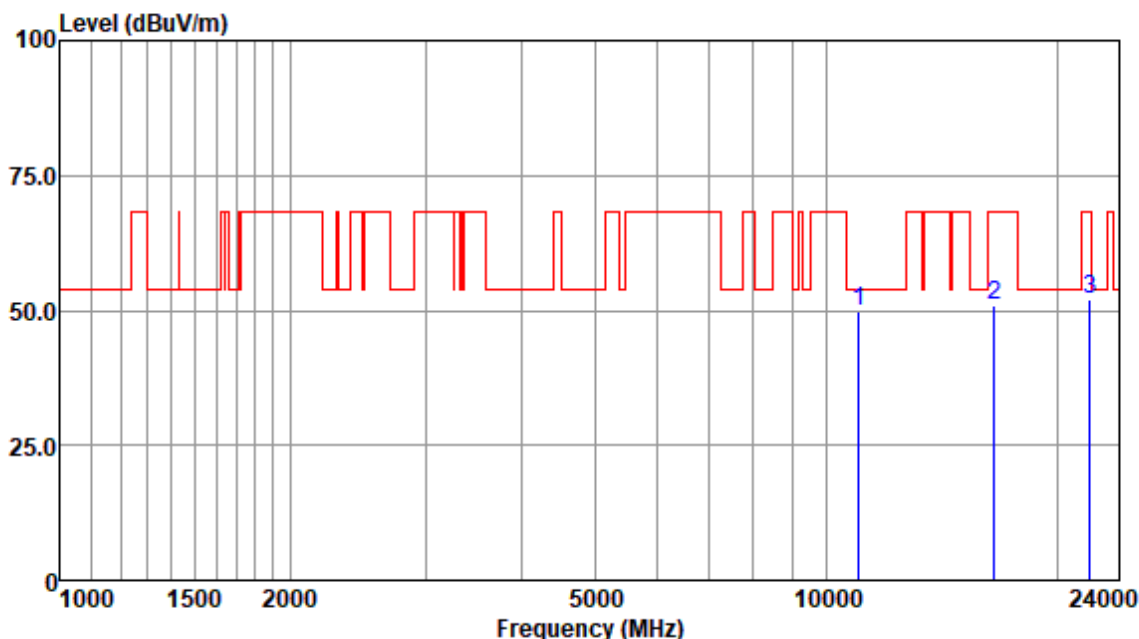


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	42.42	35.42	6.89	35.08	49.65	54.00	-4.35	Peak
16500.00	39.20	38.47	9.26	36.11	50.82	68.20	-17.38	Peak
22000.00	31.35	44.07	12.56	36.11	51.87	68.20	-16.33	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



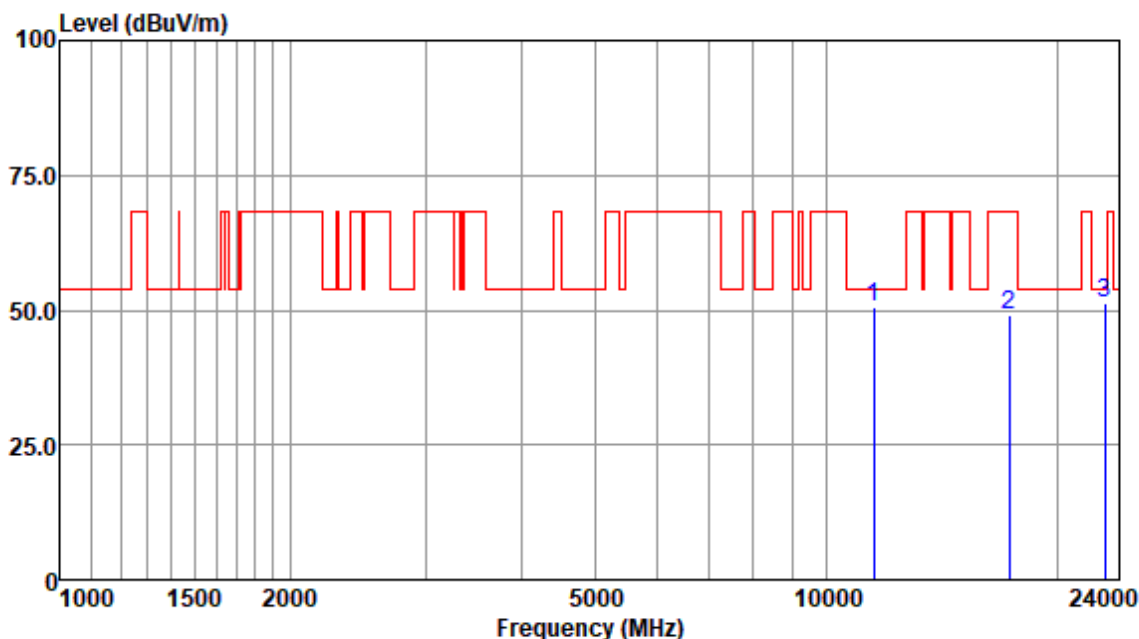
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	43.19	35.79	7.36	35.88	50.46	54.00	-3.54	Peak
17235.00	34.59	40.60	10.19	36.14	49.24	68.20	-18.96	Peak
22980.00	30.05	44.52	13.01	36.15	51.43	54.00	-2.57	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



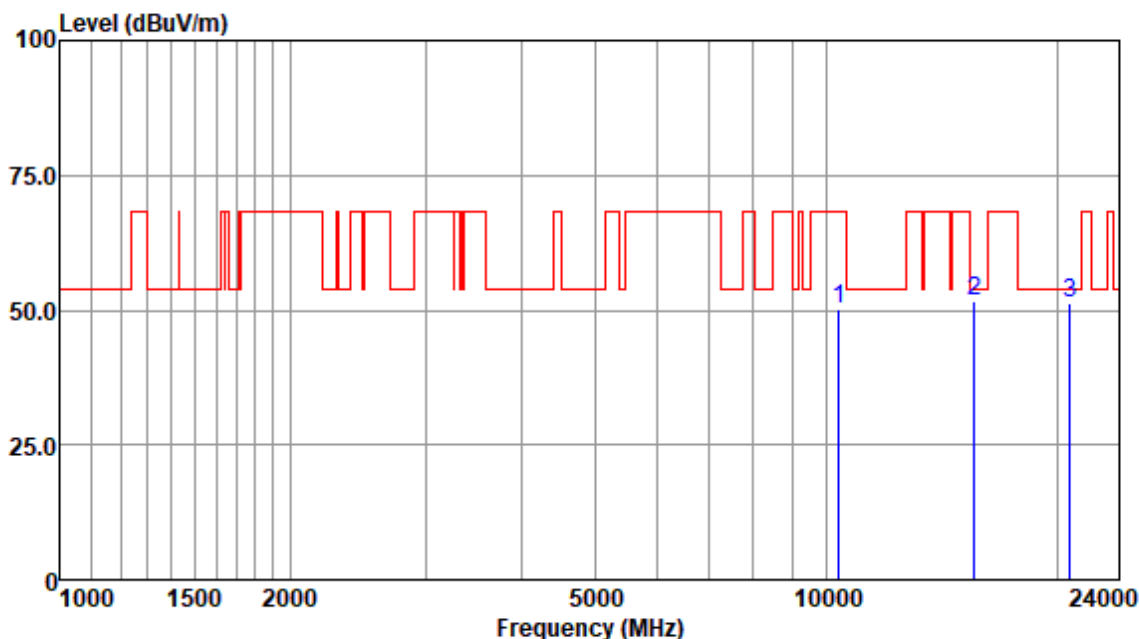
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.00	43.08	34.93	6.53	34.40	50.14	68.20	-18.06	Peak
15540.00	40.84	37.43	9.99	36.78	51.48	54.00	-2.52	Peak
20720.00	32.20	43.41	11.90	36.05	51.46	54.00	-2.54	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

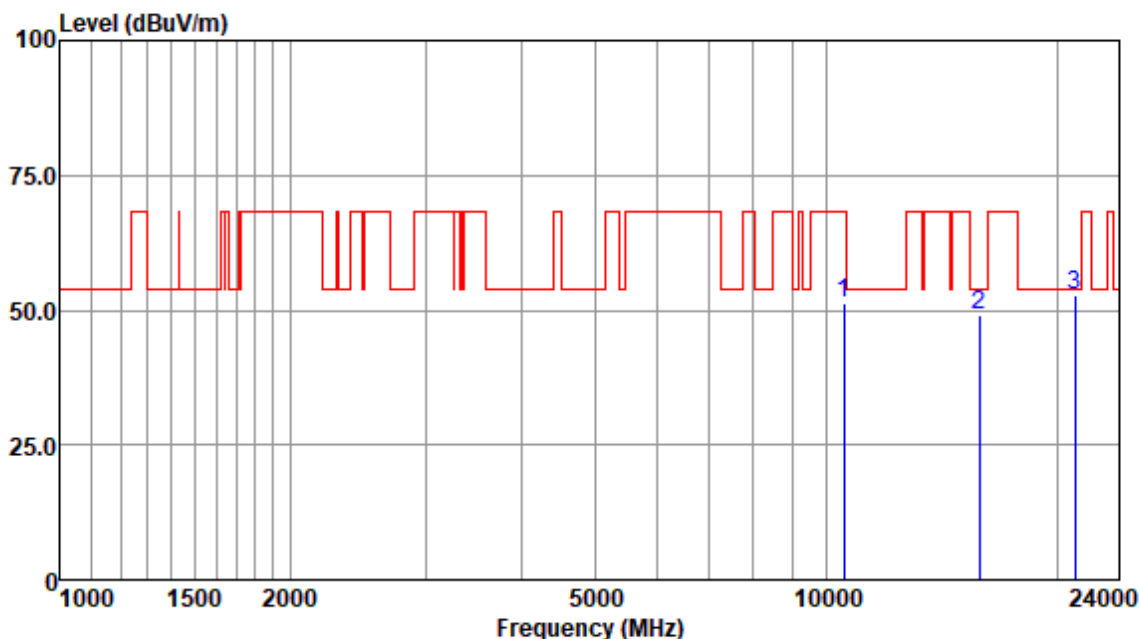


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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10520.00	44.40	34.98	6.60	34.51	51.47	68.20	-16.73	Peak
15780.00	38.47	37.56	9.48	36.55	48.96	54.00	-5.04	Peak
21040.00	33.20	43.58	12.07	36.06	52.79	54.00	-1.21	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

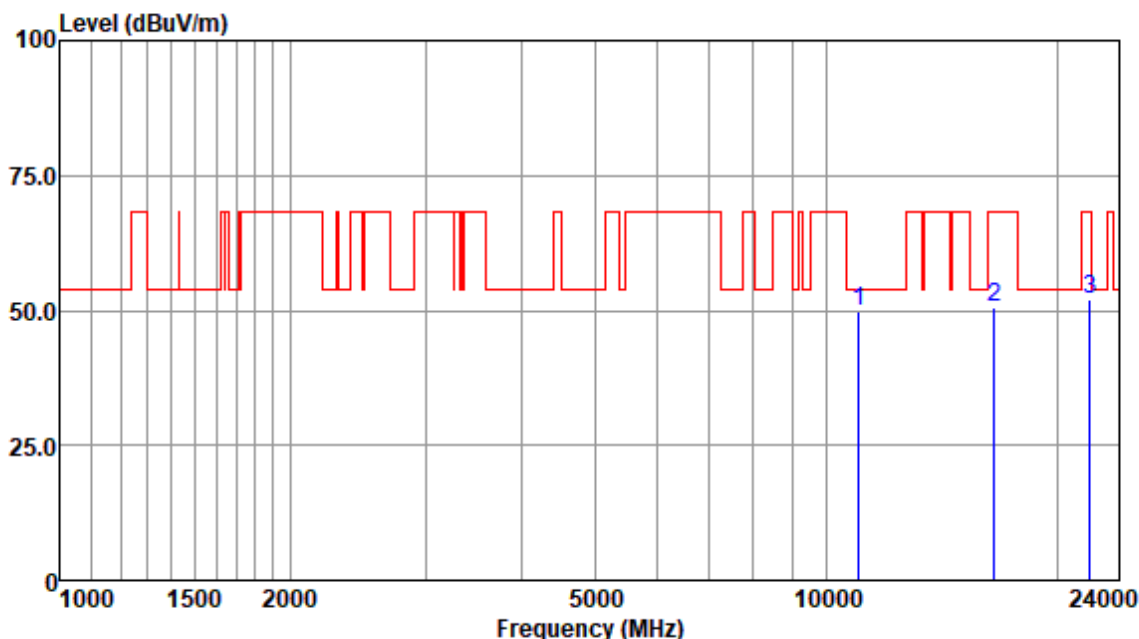


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	42.61	35.42	6.89	35.08	49.84	54.00	-4.16	Peak
16500.00	39.09	38.47	9.26	36.11	50.71	68.20	-17.49	Peak
22000.00	31.43	44.07	12.56	36.11	51.95	68.20	-16.25	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



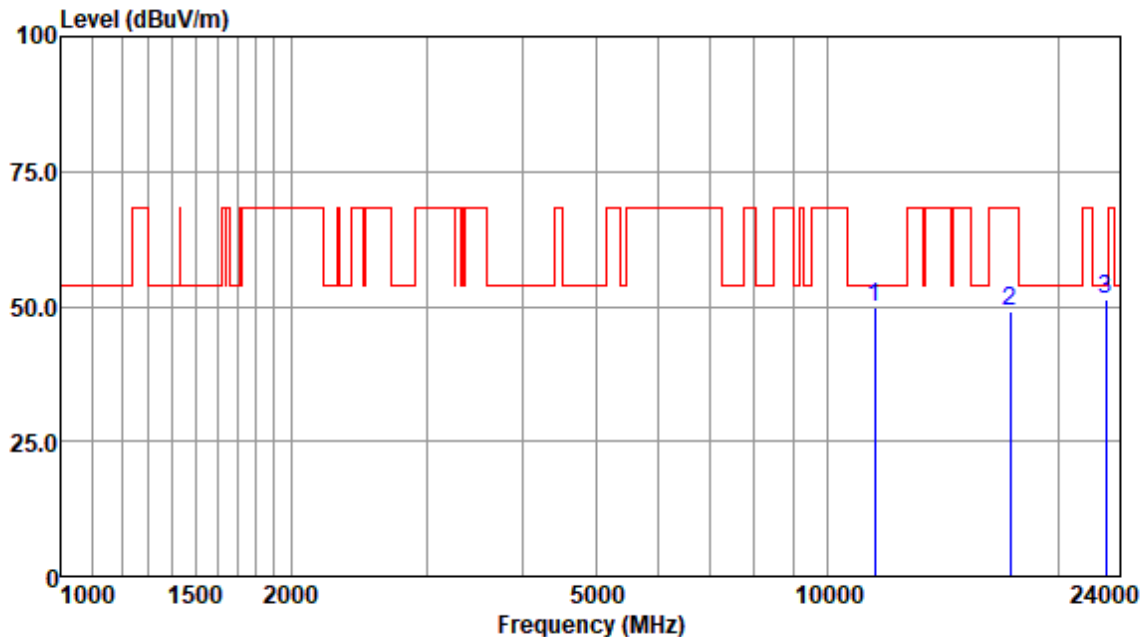
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	42.47	35.79	7.36	35.88	49.74	54.00	-4.26	Peak
17235.00	34.32	40.60	10.19	36.14	48.97	68.20	-19.23	Peak
22980.00	30.07	44.52	13.01	36.15	51.45	54.00	-2.55	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

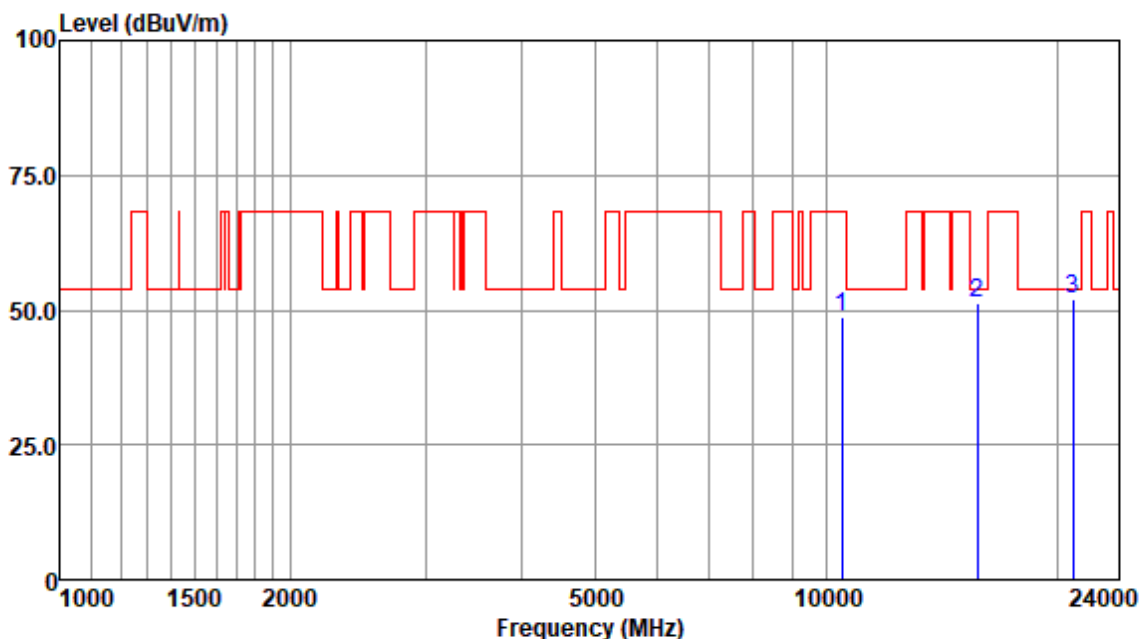


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	41.55	34.92	6.56	34.46	48.57	68.20	-19.63	Peak
15660.00	40.47	37.51	10.11	36.63	51.46	54.00	-2.54	Peak
20880.00	32.57	43.48	11.97	36.05	51.97	54.00	-2.03	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

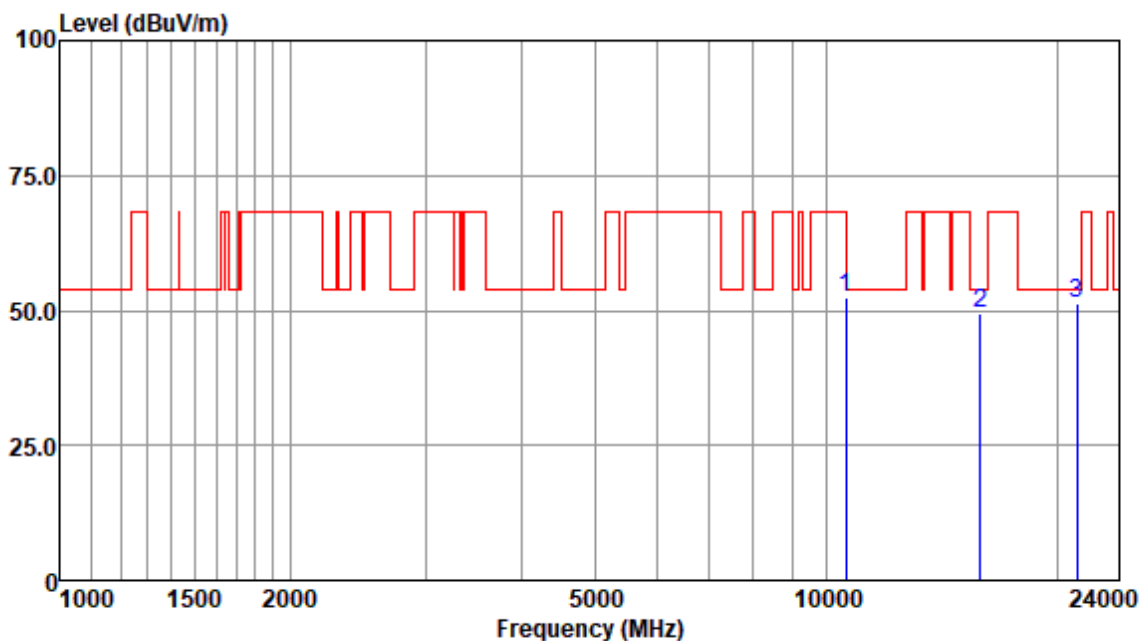


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	45.12	35.04	6.64	34.56	52.24	68.20	-15.96	Peak
15840.00	39.32	37.61	9.16	36.51	49.58	54.00	-4.42	Peak
21120.00	31.81	43.62	12.11	36.07	51.47	54.00	-2.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

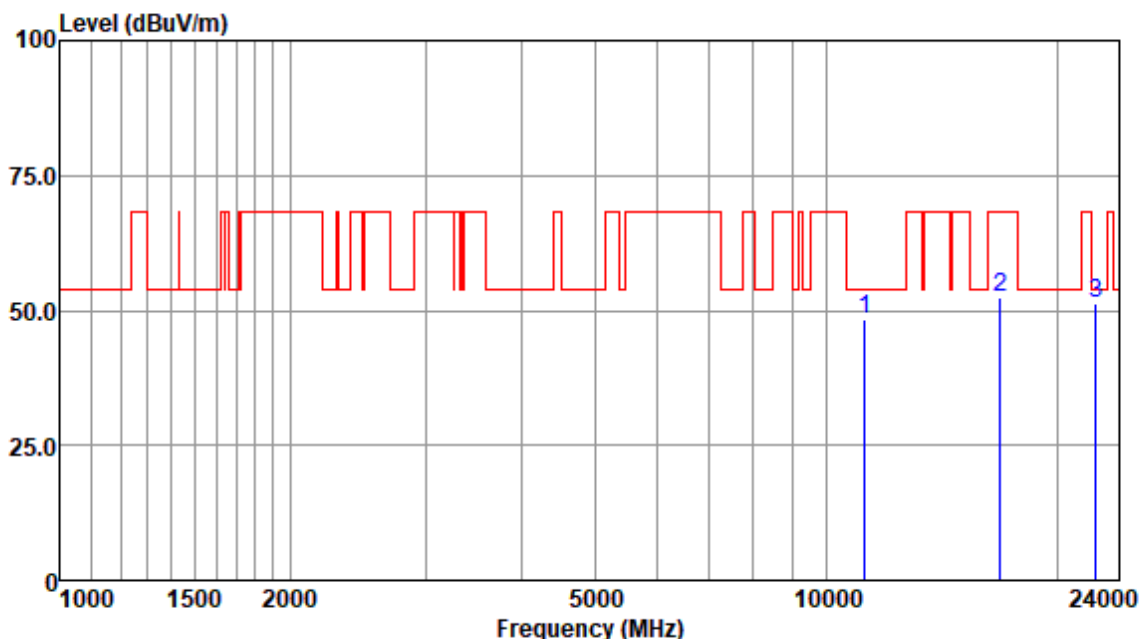


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11200.00	40.99	35.56	7.04	35.33	48.26	54.00	-5.74	Peak
16800.00	39.53	39.31	9.66	36.03	52.47	68.20	-15.73	Peak
22400.00	30.60	44.24	12.73	36.13	51.44	54.00	-2.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

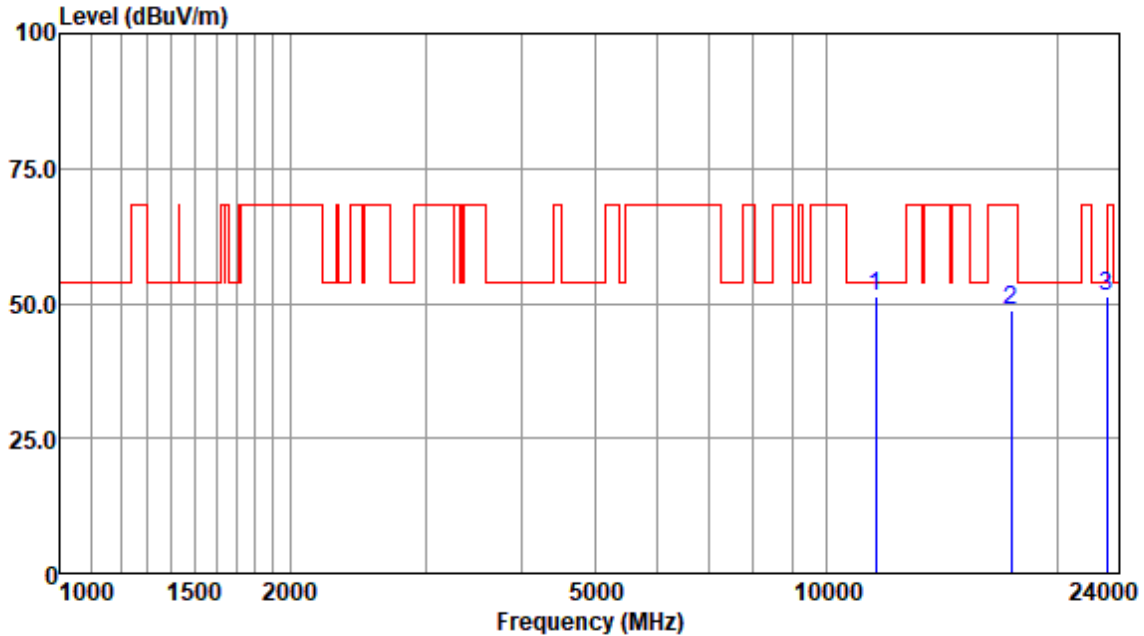


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11570.00	44.04	35.78	7.44	36.02	51.24	54.00	-2.76	Peak
17355.00	33.85	40.95	10.32	36.25	48.87	68.20	-19.33	Peak
23140.00	29.88	44.62	13.12	36.16	51.46	68.20	-16.74	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

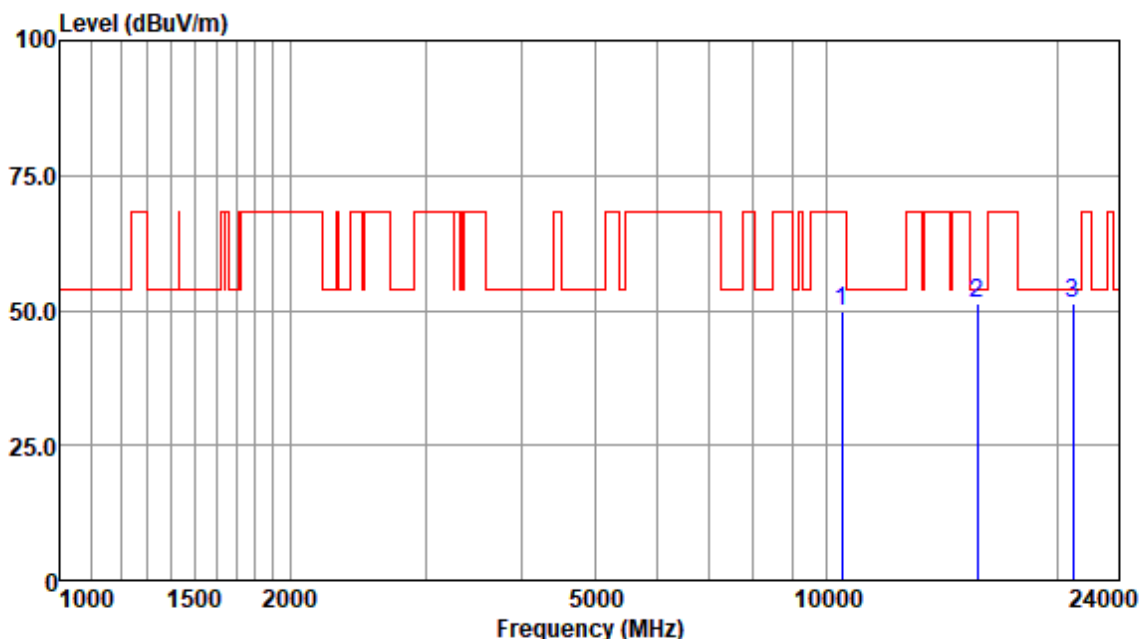


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	42.63	34.92	6.56	34.46	49.65	68.20	-18.55	Peak
15660.00	40.48	37.51	10.11	36.63	51.47	54.00	-2.53	Peak
20880.00	32.07	43.48	11.97	36.05	51.47	54.00	-2.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



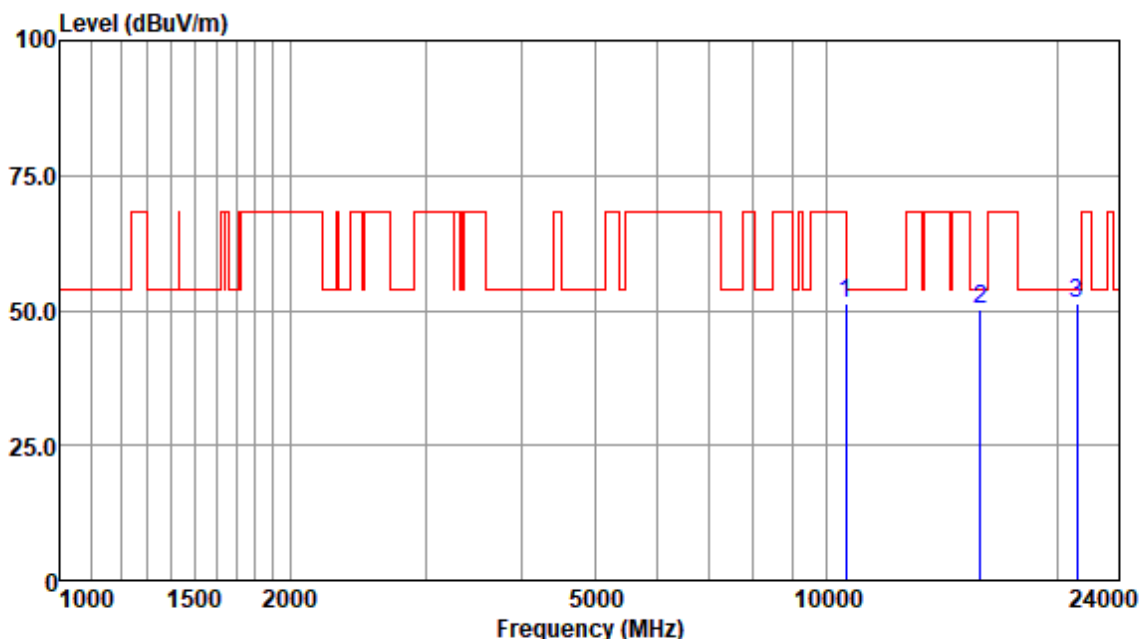
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	44.15	35.04	6.64	34.56	51.27	68.20	-16.93	Peak
15840.00	39.93	37.61	9.16	36.51	50.19	54.00	-3.81	Peak
21120.00	31.58	43.62	12.11	36.07	51.24	54.00	-2.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

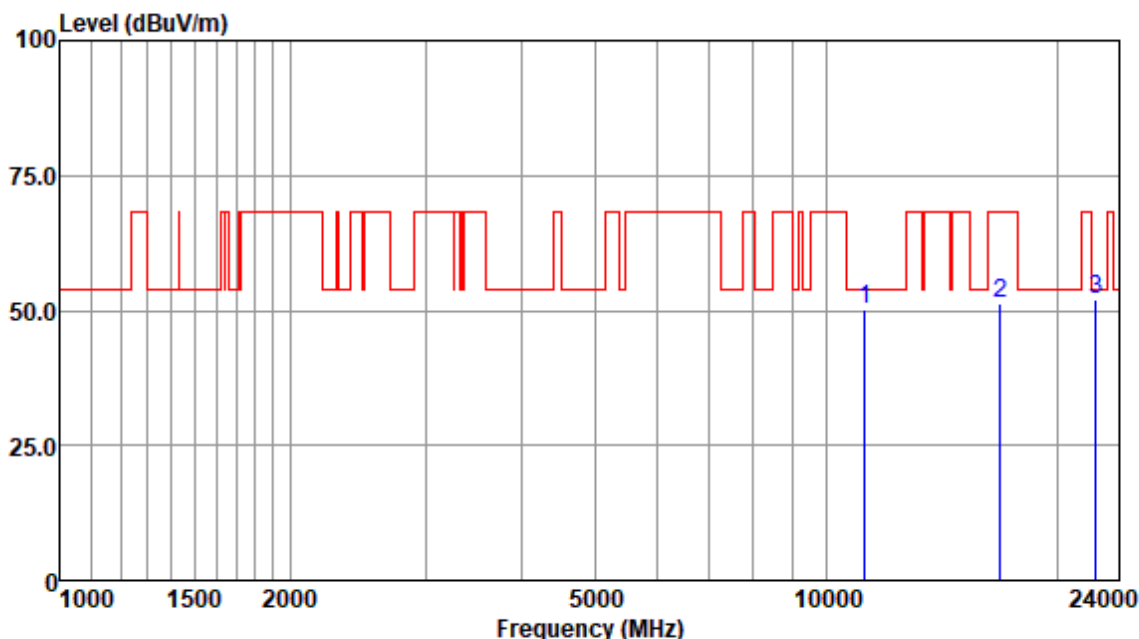


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	43.06	35.56	7.04	35.33	50.33	54.00	-3.67	Peak
16800.00	38.40	39.31	9.66	36.03	51.34	68.20	-16.86	Peak
22400.00	31.08	44.24	12.73	36.13	51.92	54.00	-2.08	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

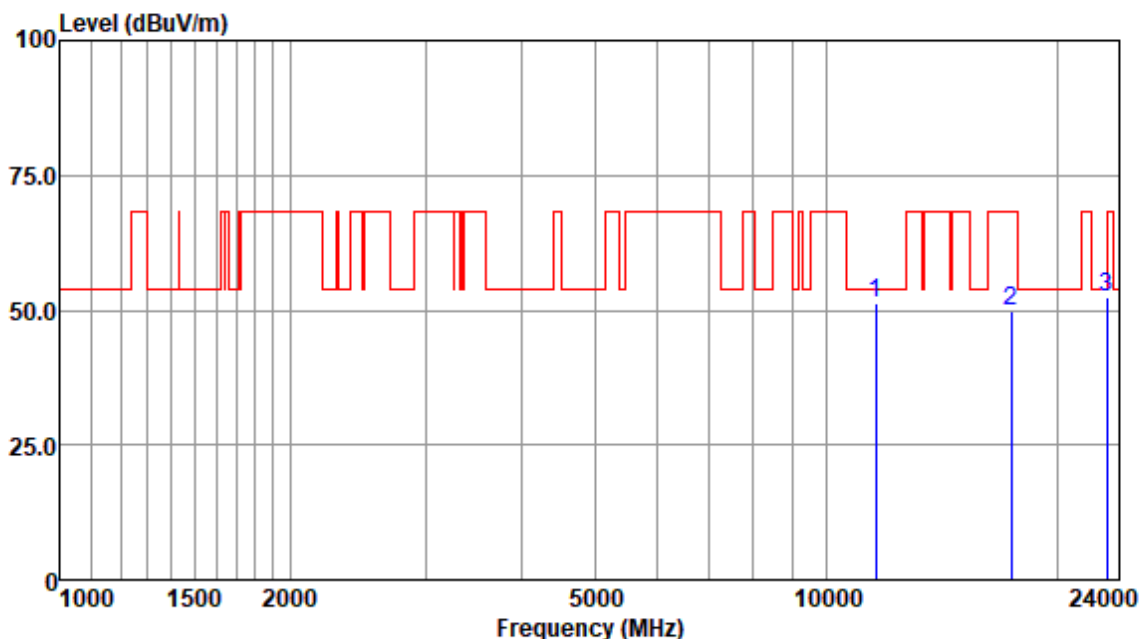


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11570.00	44.04	35.78	7.44	36.02	51.24	54.00	-2.76	Peak
17355.00	34.64	40.95	10.32	36.25	49.66	68.20	-18.54	Peak
23140.00	30.86	44.62	13.12	36.16	52.44	68.20	-15.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

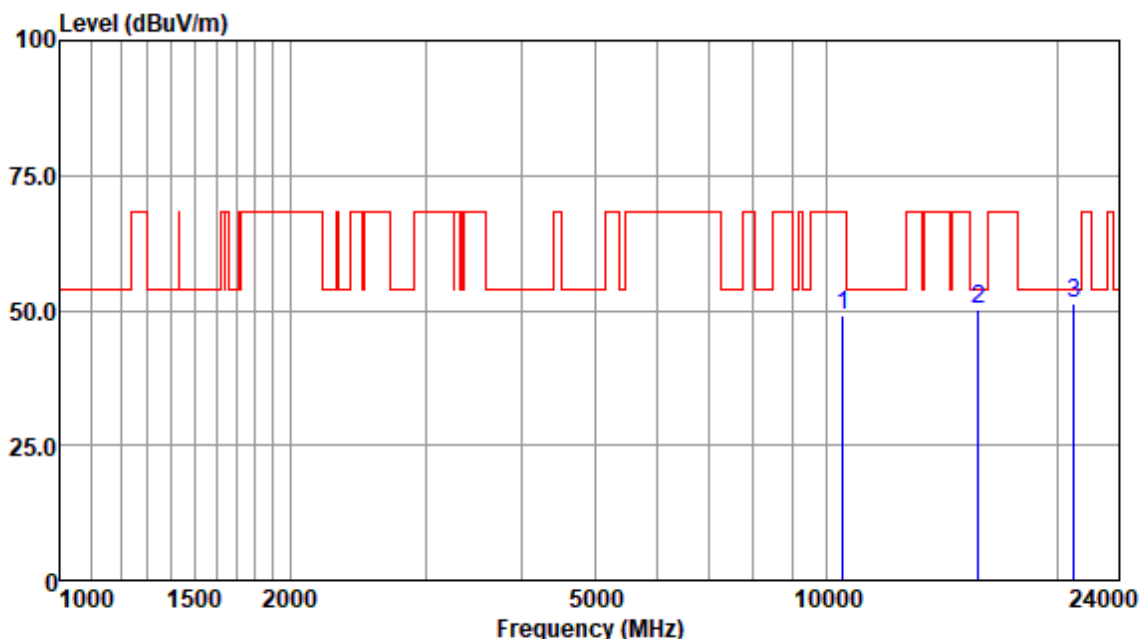


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10480.00	42.09	34.95	6.58	34.48	49.14	68.20	-19.06	Peak
15720.00	39.38	37.54	9.80	36.58	50.14	54.00	-3.86	Peak
20960.00	31.88	43.52	12.00	36.06	51.34	54.00	-2.66	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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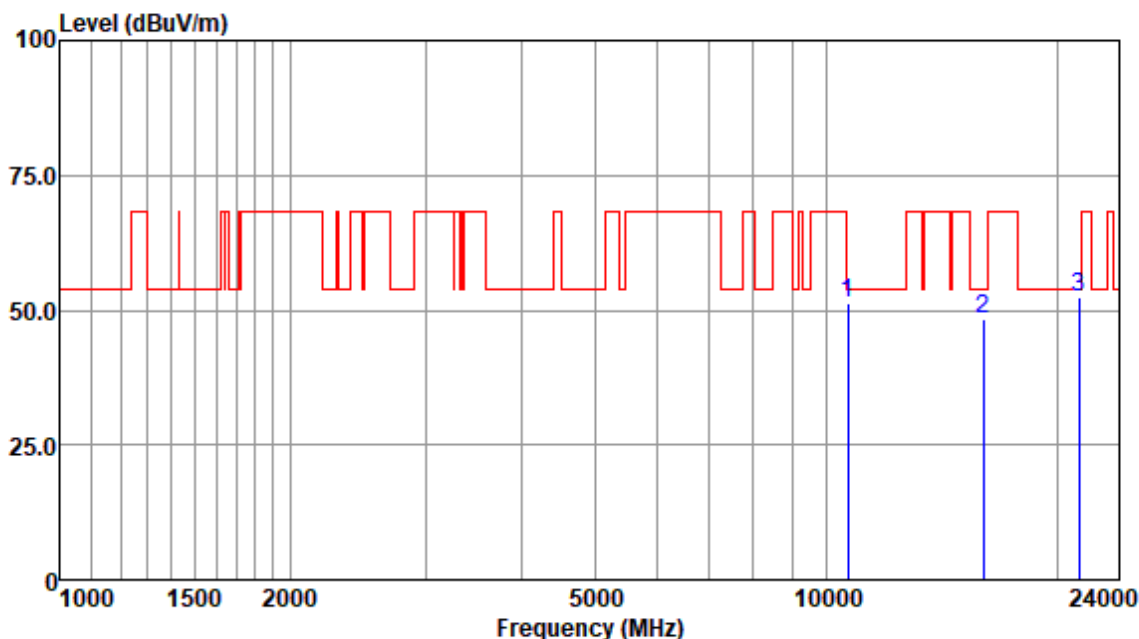
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10640.00	44.02	35.10	6.68	34.61	51.19	54.00	-2.81	Peak
15960.00	38.34	37.74	8.60	36.42	48.26	54.00	-5.74	Peak
21280.00	32.67	43.69	12.18	36.07	52.47	54.00	-1.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

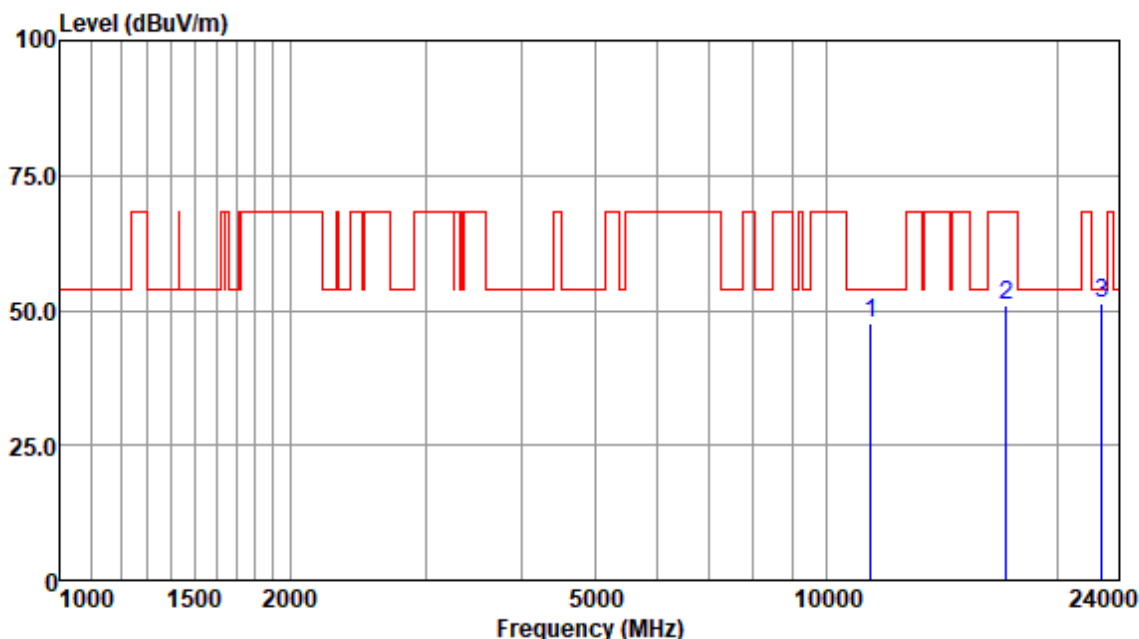


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11400.00	40.29	35.73	7.28	35.74	47.56	54.00	-6.44	Peak
17100.00	36.76	40.12	9.99	36.03	50.84	68.20	-17.36	Peak
22800.00	29.98	44.45	12.94	36.15	51.22	54.00	-2.78	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



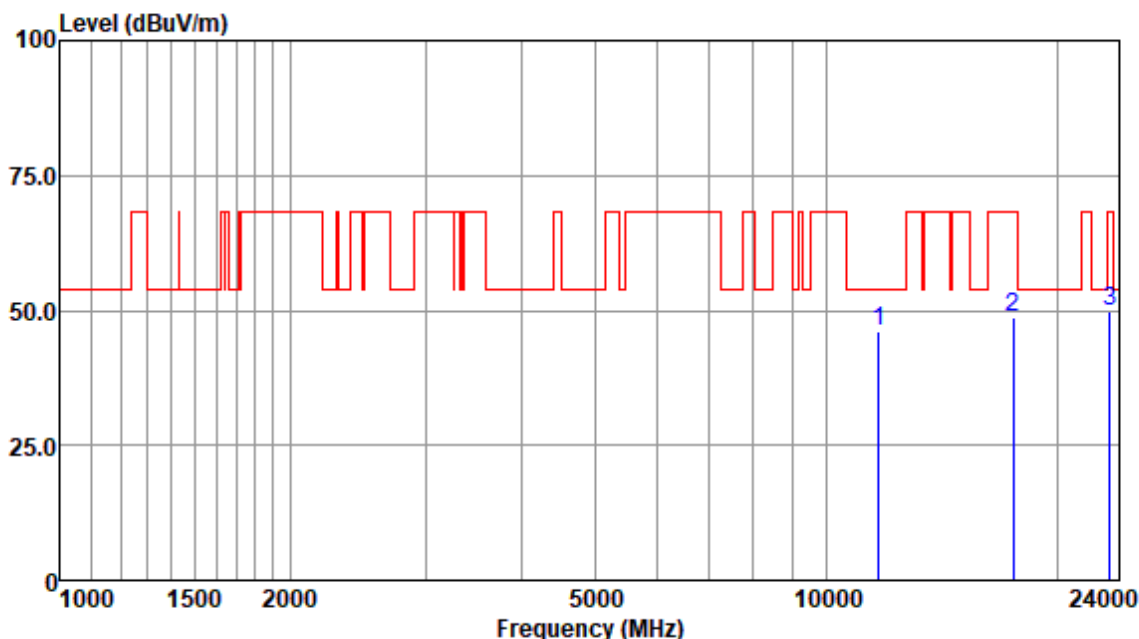
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11650.00	39.18	35.77	7.56	36.23	46.28	54.00	-7.72	Peak
17475.00	33.46	41.30	10.45	36.37	48.84	68.20	-19.36	Peak
23300.00	28.26	44.69	13.19	36.17	49.97	68.20	-18.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



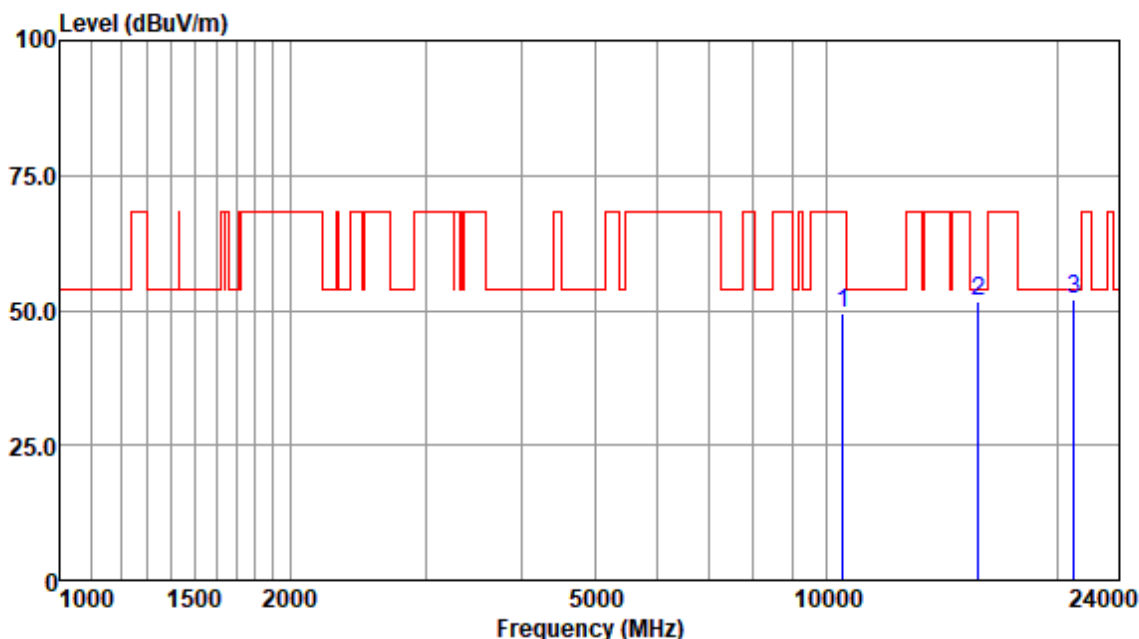
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10480.00	42.22	34.95	6.58	34.48	49.27	68.20	-18.93	Peak
15720.00	40.90	37.54	9.80	36.58	51.66	54.00	-2.34	Peak
20960.00	32.71	43.52	12.00	36.06	52.17	54.00	-1.83	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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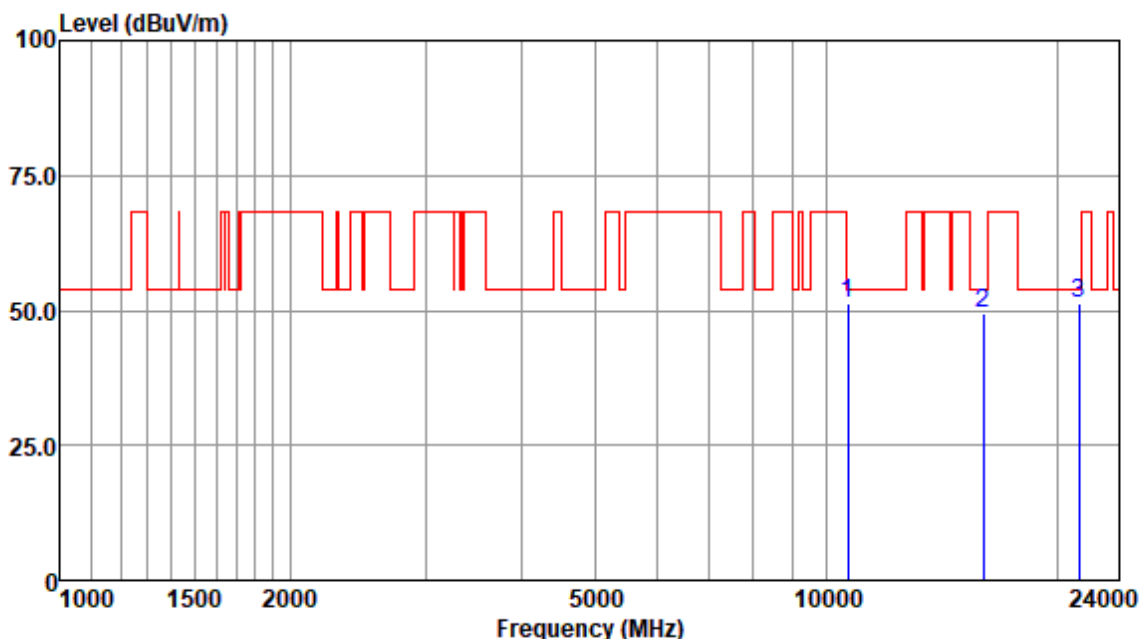
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10640.00	44.25	35.10	6.68	34.61	51.42	54.00	-2.58	Peak
15960.00	39.66	37.74	8.60	36.42	49.58	54.00	-4.42	Peak
21280.00	31.67	43.69	12.18	36.07	51.47	54.00	-2.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

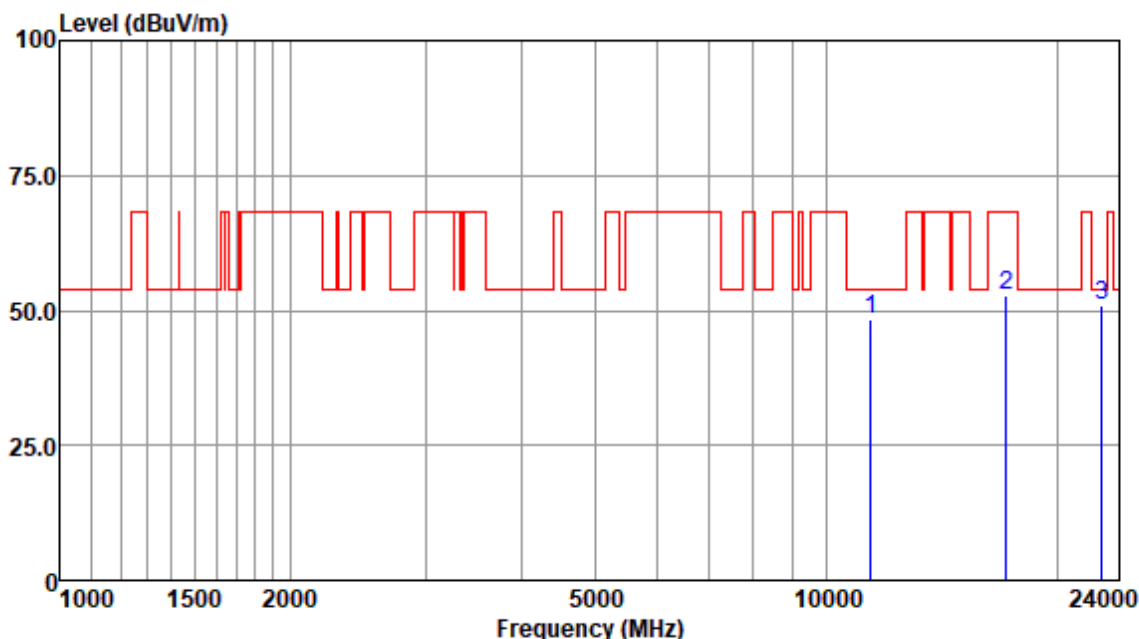


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11400.00	40.99	35.73	7.28	35.74	48.26	54.00	-5.74	Peak
17100.00	38.57	40.12	9.99	36.03	52.65	68.20	-15.55	Peak
22800.00	29.55	44.45	12.94	36.15	50.79	54.00	-3.21	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

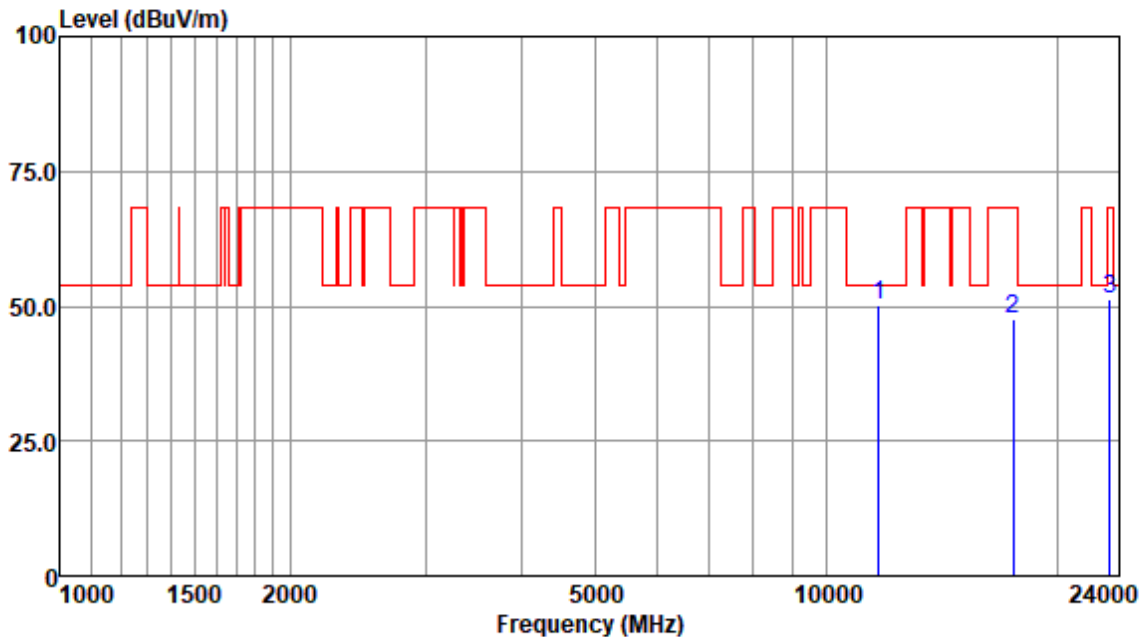


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11650.00	43.14	35.77	7.56	36.23	50.24	54.00	-3.76	Peak
17475.00	32.18	41.30	10.45	36.37	47.56	68.20	-20.64	Peak
23300.00	29.58	44.69	13.19	36.17	51.29	68.20	-16.91	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

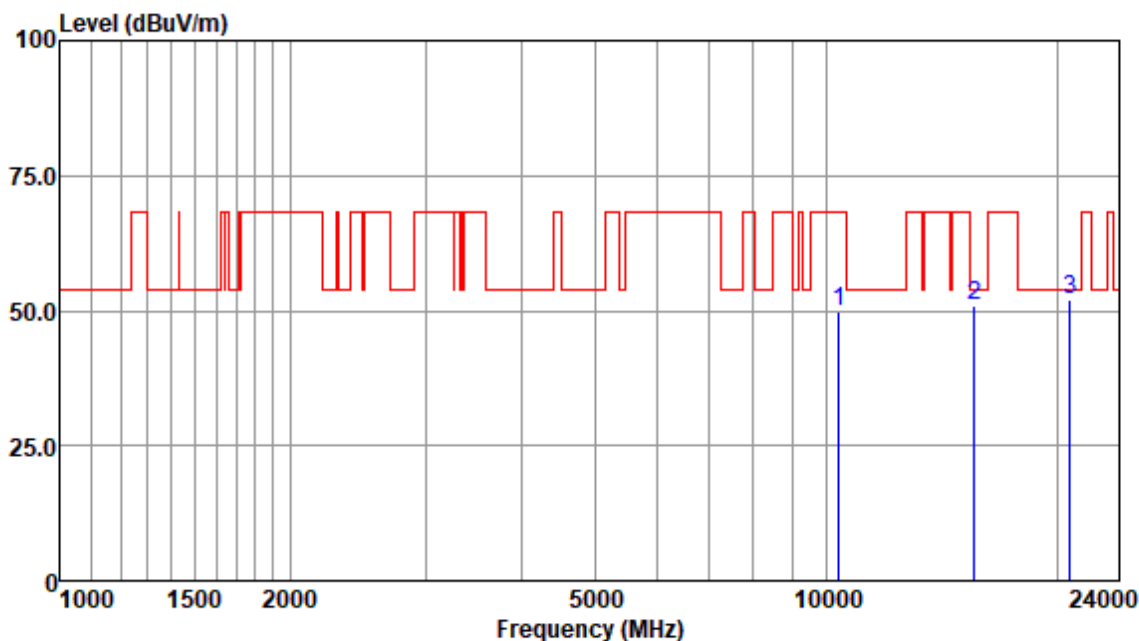


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.00	42.81	34.93	6.53	34.40	49.87	68.20	-18.33	Peak
15540.00	40.17	37.43	9.99	36.78	50.81	54.00	-3.19	Peak
20720.00	32.88	43.41	11.90	36.05	52.14	54.00	-1.86	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

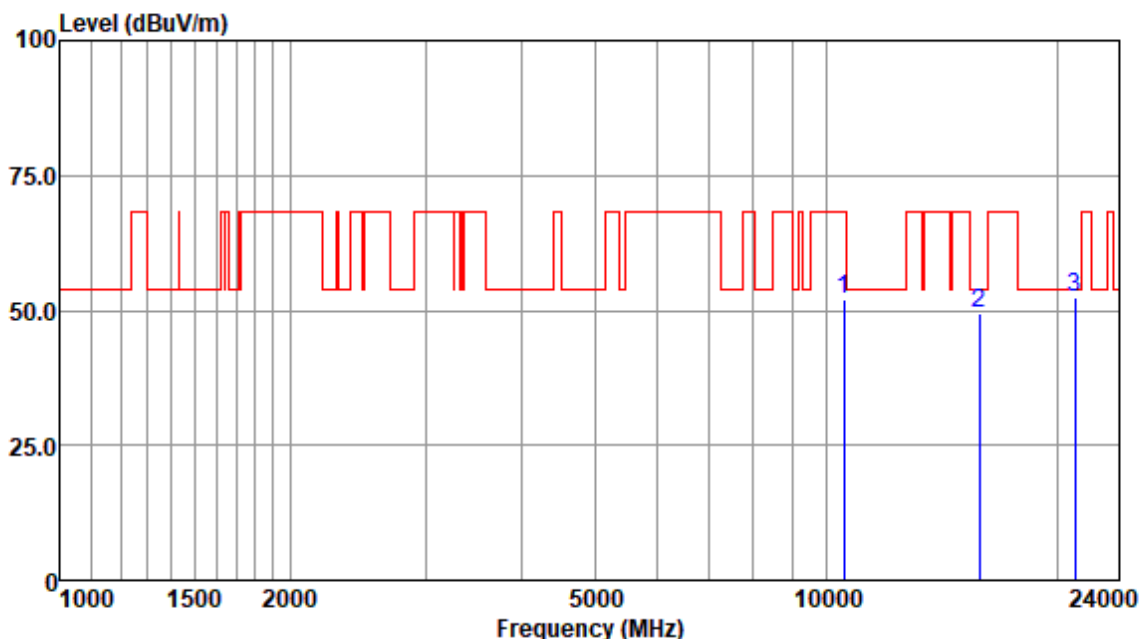


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10520.00	45.07	34.98	6.60	34.51	52.14	68.20	-16.06	Peak
15780.00	38.89	37.56	9.48	36.55	49.38	54.00	-4.62	Peak
21040.00	32.68	43.58	12.07	36.06	52.27	54.00	-1.73	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



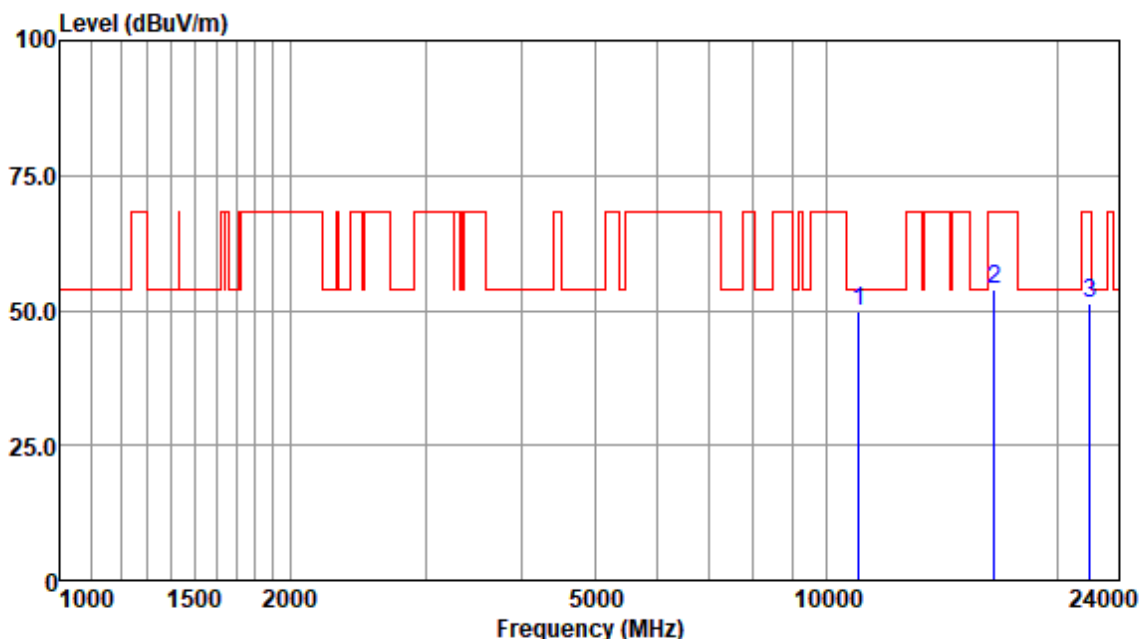
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	42.43	35.42	6.89	35.08	49.66	54.00	-4.34	Peak
16500.00	42.22	38.47	9.26	36.11	53.84	68.20	-14.36	Peak
22000.00	30.94	44.07	12.56	36.11	51.46	68.20	-16.74	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



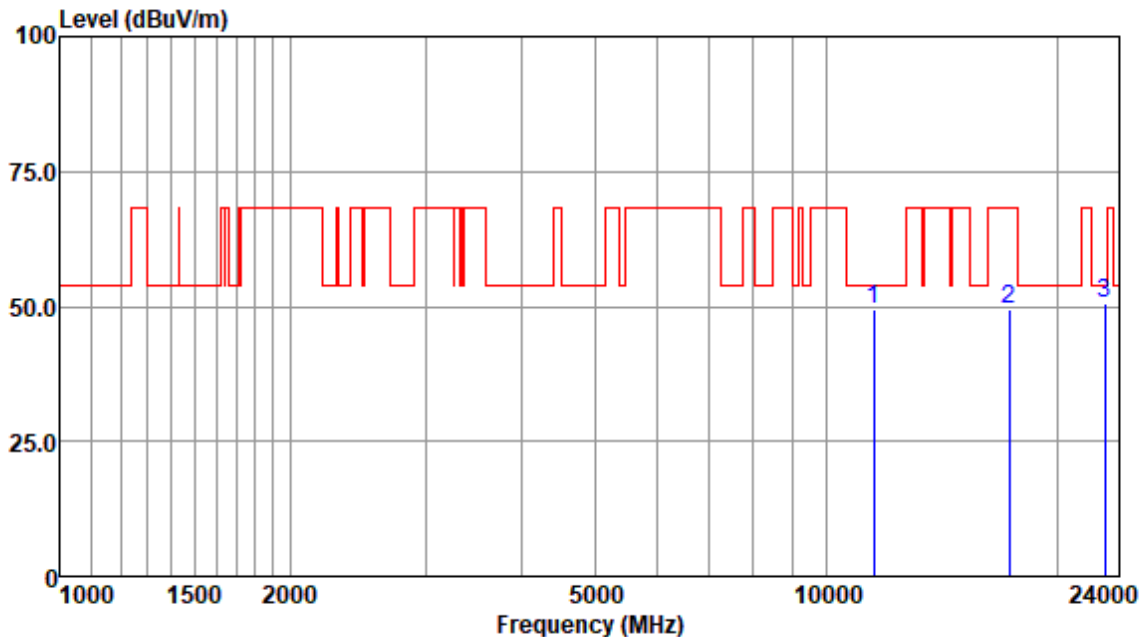
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	42.32	35.79	7.36	35.88	49.59	54.00	-4.41	Peak
17235.00	34.82	40.60	10.19	36.14	49.47	68.20	-18.73	Peak
22980.00	29.10	44.52	13.01	36.15	50.48	54.00	-3.52	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

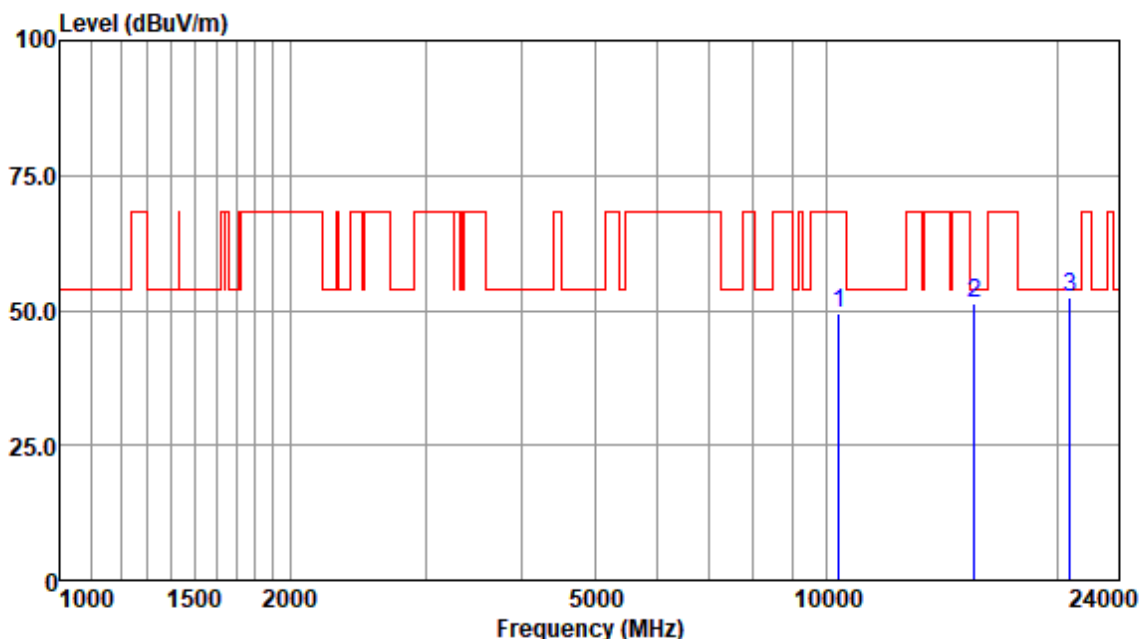


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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.00	42.22	34.93	6.53	34.40	49.28	68.20	-18.92	Peak
15540.00	40.83	37.43	9.99	36.78	51.47	54.00	-2.53	Peak
20720.00	33.21	43.41	11.90	36.05	52.47	54.00	-1.53	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

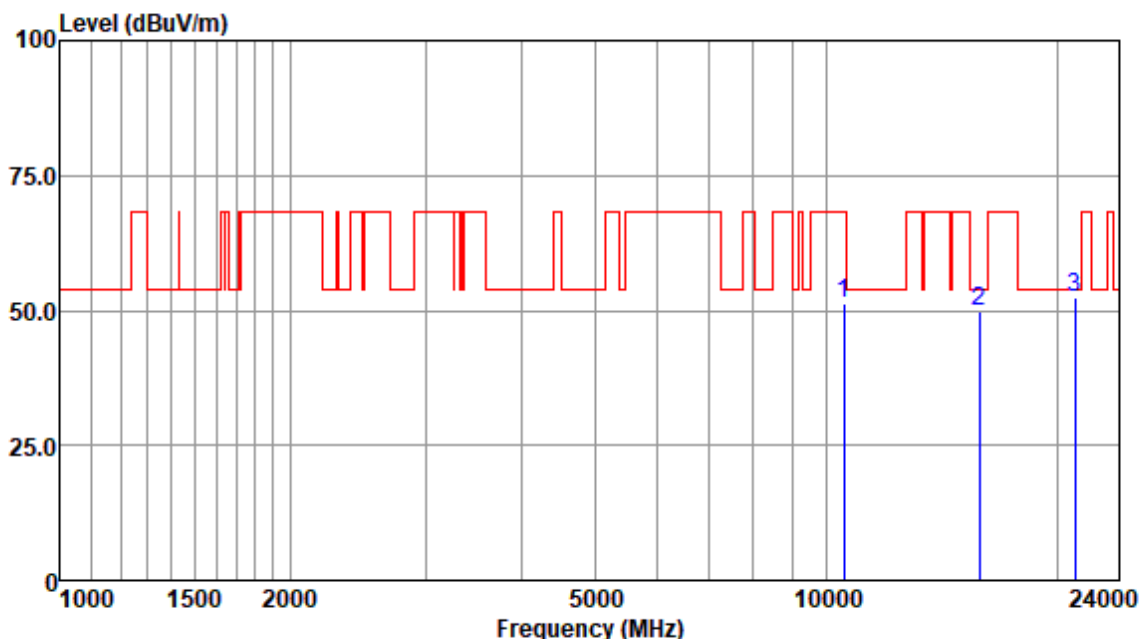


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10520.00	44.17	34.98	6.60	34.51	51.24	68.20	-16.96	Peak
15780.00	39.26	37.56	9.48	36.55	49.75	54.00	-4.25	Peak
21040.00	32.75	43.58	12.07	36.06	52.34	54.00	-1.66	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

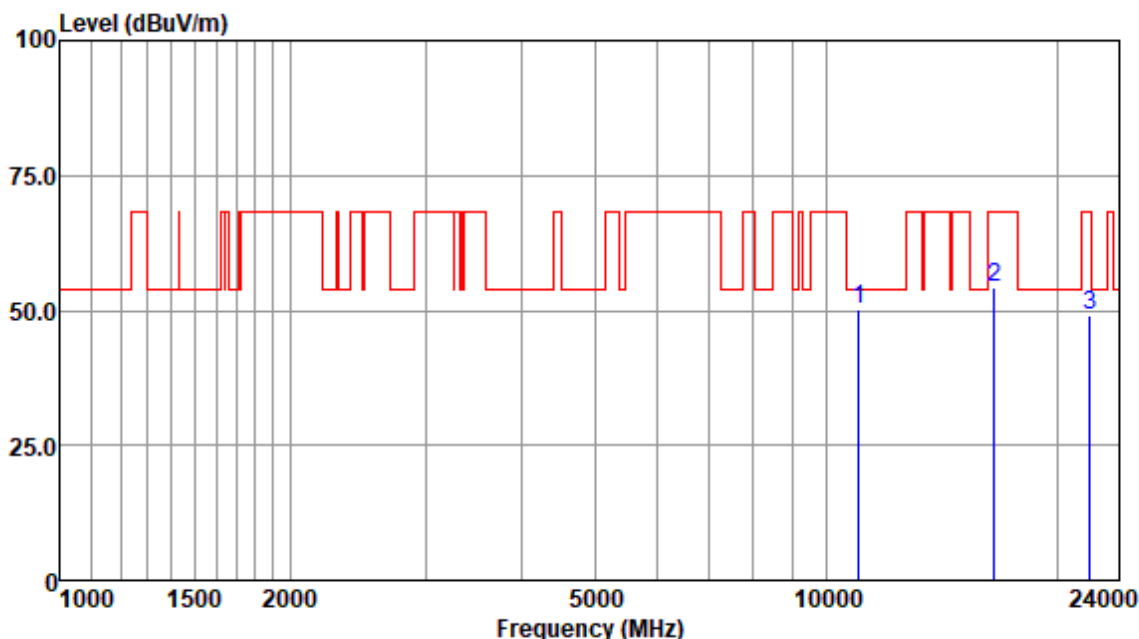


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	43.10	35.42	6.89	35.08	50.33	54.00	-3.67	Peak
16500.00	42.62	38.47	9.26	36.11	54.24	68.20	-13.96	Peak
22000.00	28.42	44.07	12.56	36.11	48.94	68.20	-19.26	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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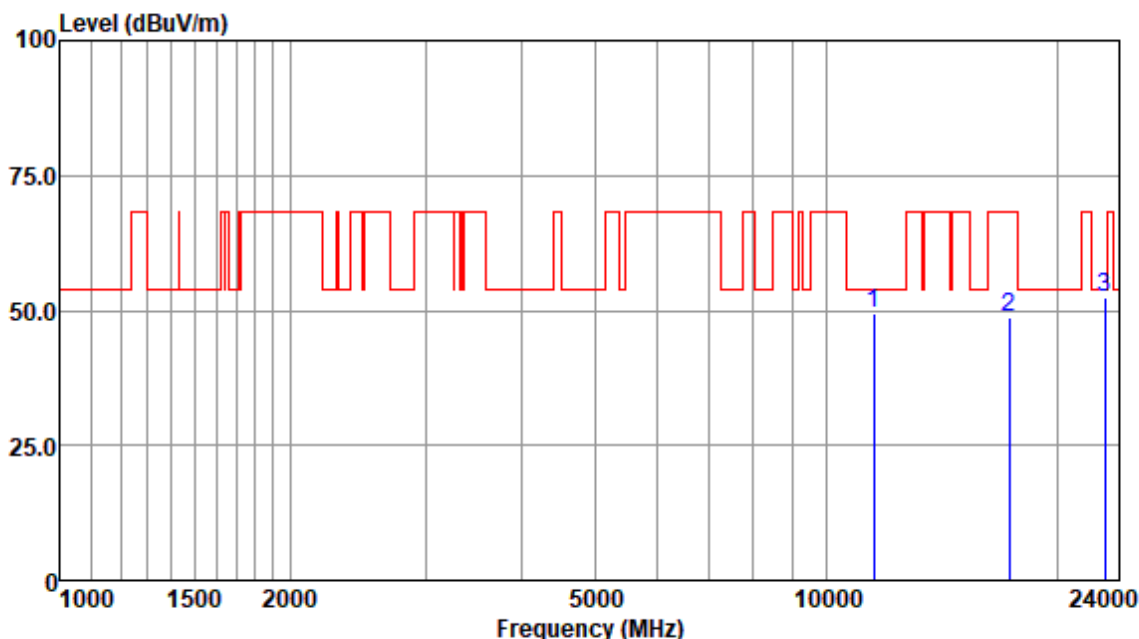
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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11490.00	42.18	35.79	7.36	35.88	49.45	54.00	-4.55	Peak
17235.00	33.91	40.60	10.19	36.14	48.56	68.20	-19.64	Peak
22980.00	31.09	44.52	13.01	36.15	52.47	54.00	-1.53	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

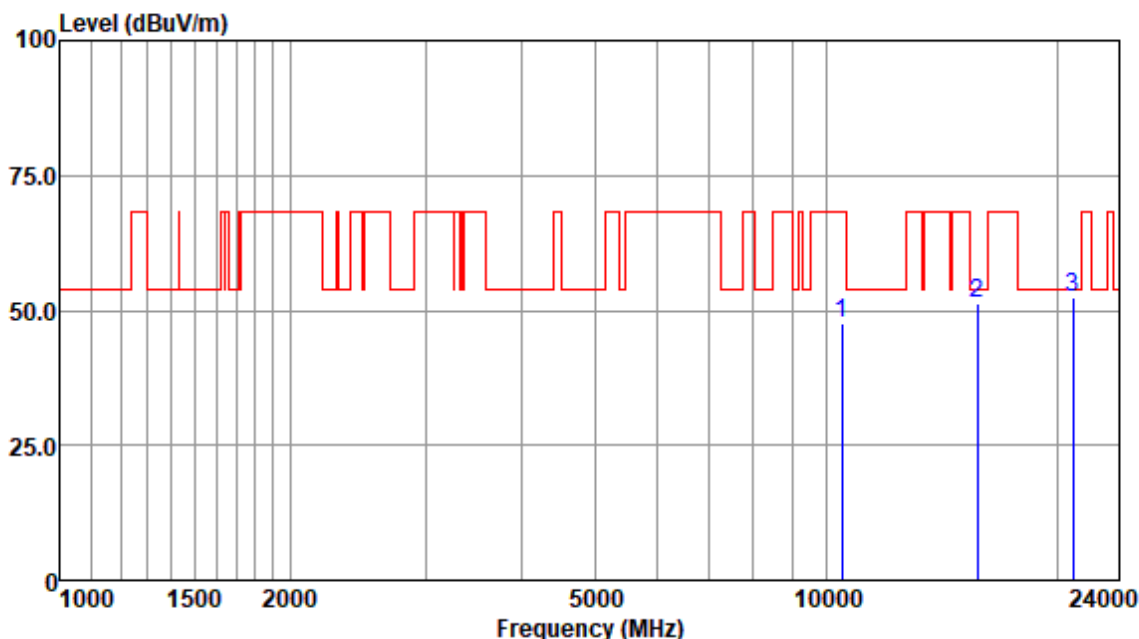


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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	40.52	34.92	6.56	34.46	47.54	68.20	-20.66	Peak
15660.00	40.25	37.51	10.11	36.63	51.24	54.00	-2.76	Peak
20880.00	33.01	43.48	11.97	36.05	52.41	54.00	-1.59	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

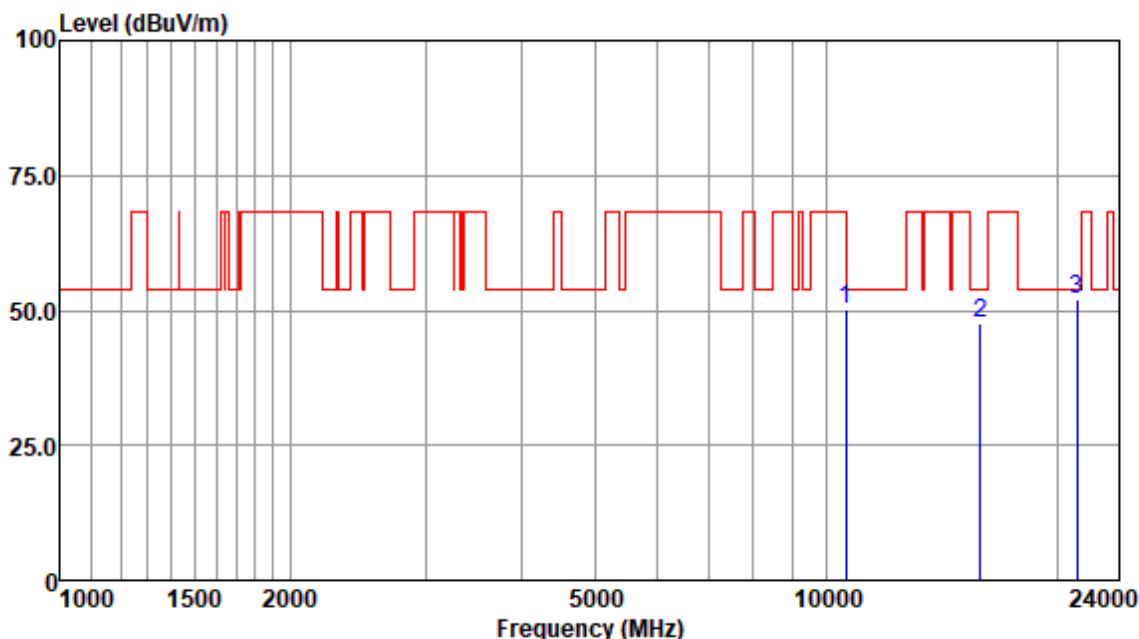


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	43.02	35.04	6.64	34.56	50.14	68.20	-18.06	Peak
15840.00	37.40	37.61	9.16	36.51	47.66	54.00	-6.34	Peak
21120.00	32.32	43.62	12.11	36.07	51.98	54.00	-2.02	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

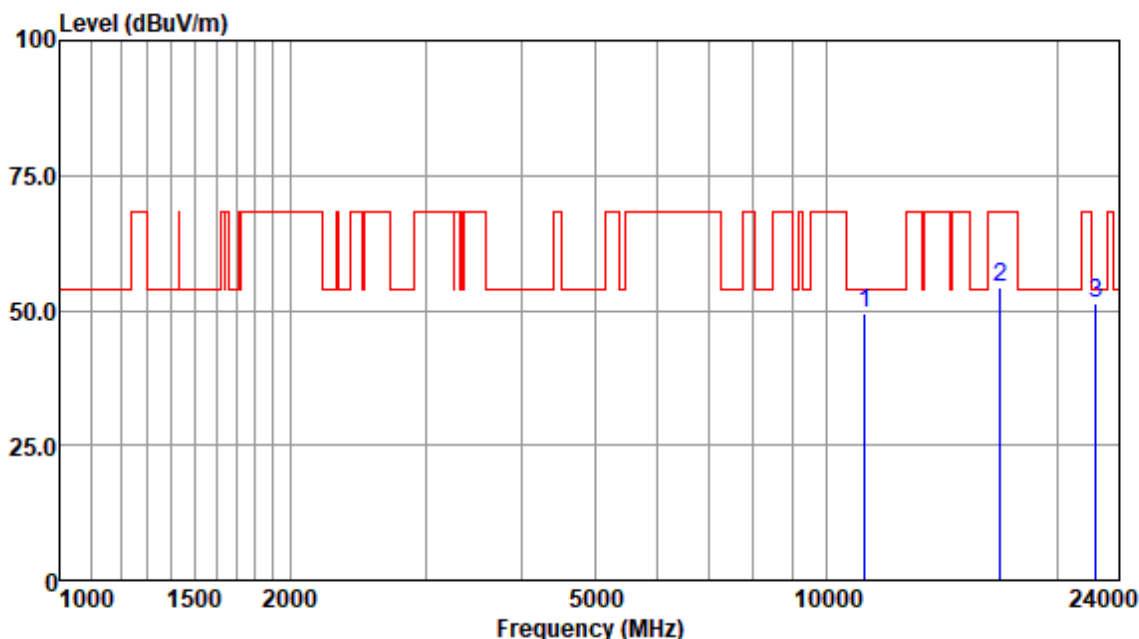


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	42.29	35.56	7.04	35.33	49.56	54.00	-4.44	Peak
16800.00	41.30	39.31	9.66	36.03	54.24	68.20	-13.96	Peak
22400.00	30.38	44.24	12.73	36.13	51.22	54.00	-2.78	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

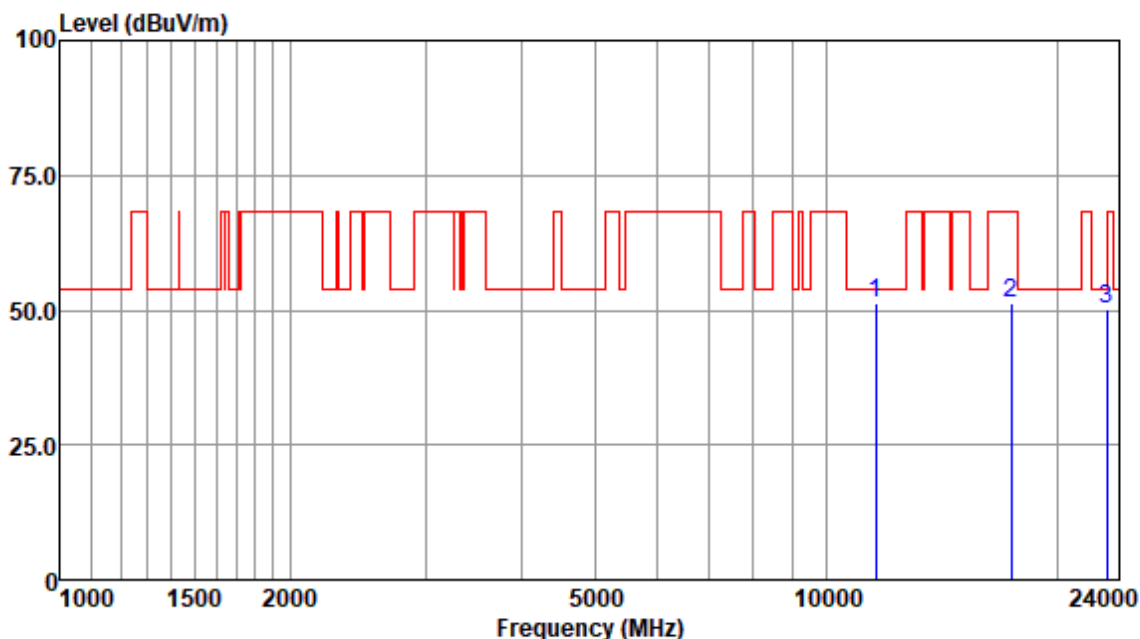


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11570.00	44.04	35.78	7.44	36.02	51.24	54.00	-2.76	Peak
17355.00	36.19	40.95	10.32	36.25	51.21	68.20	-16.99	Peak
23140.00	28.66	44.62	13.12	36.16	50.24	68.20	-17.96	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

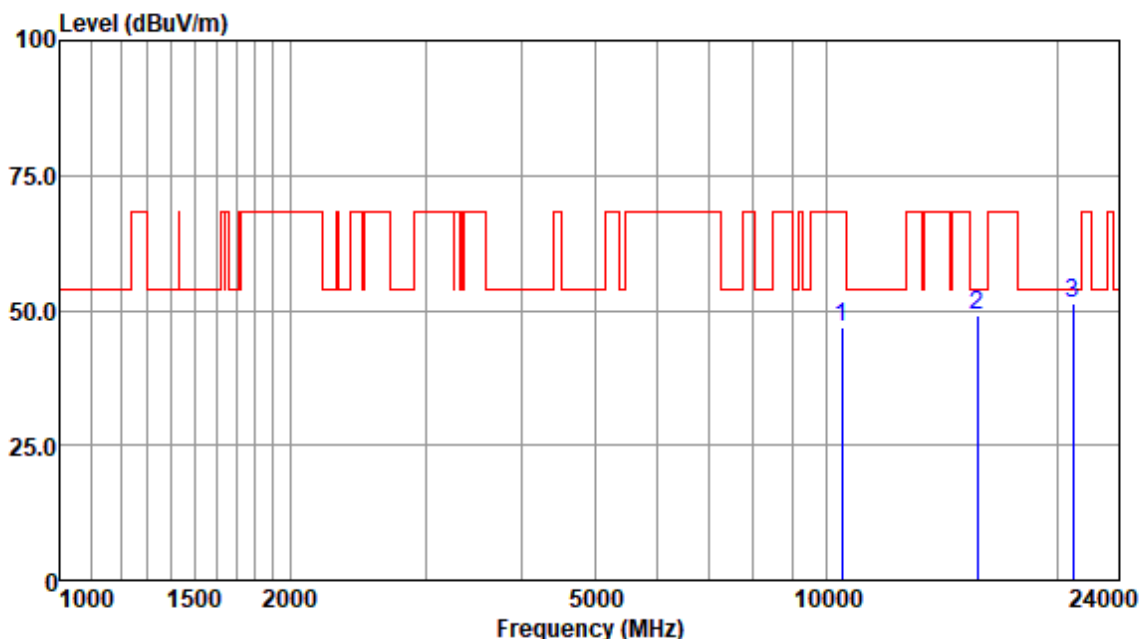


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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	39.79	34.92	6.56	34.46	46.81	68.20	-21.39	Peak
15660.00	38.26	37.51	10.11	36.63	49.25	54.00	-4.75	Peak
20880.00	32.05	43.48	11.97	36.05	51.45	54.00	-2.55	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

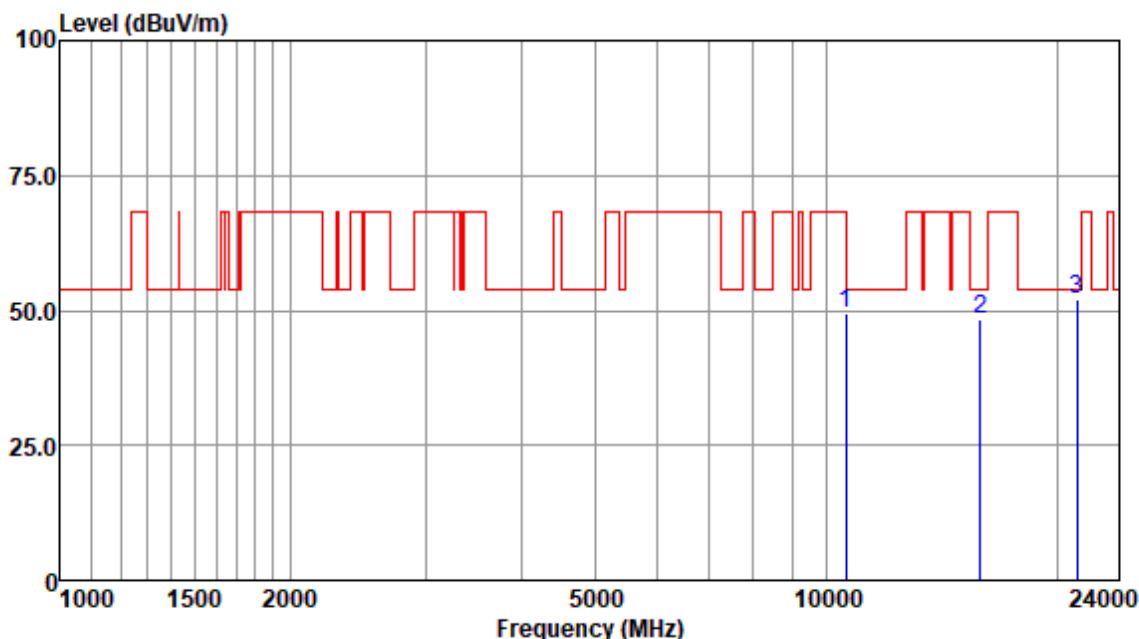


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	42.45	35.04	6.64	34.56	49.57	68.20	-18.63	Peak
15840.00	37.99	37.61	9.16	36.51	48.25	54.00	-5.75	Peak
21120.00	32.51	43.62	12.11	36.07	52.17	54.00	-1.83	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

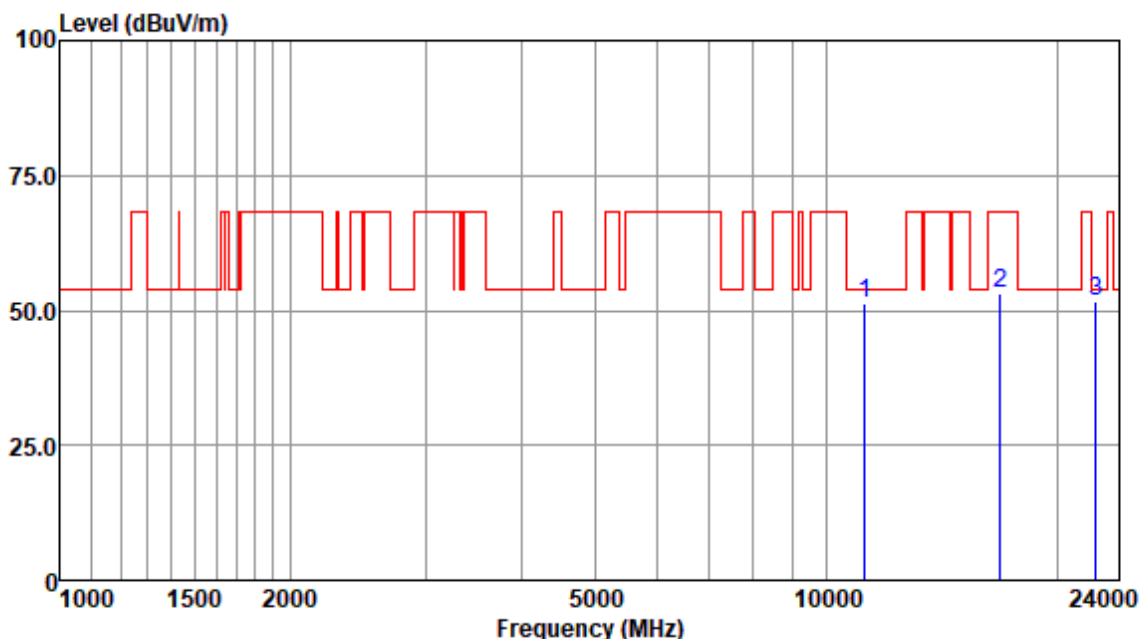


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	43.97	35.56	7.04	35.33	51.24	54.00	-2.76	Peak
16800.00	40.33	39.31	9.66	36.03	53.27	68.20	-14.93	Peak
22400.00	30.65	44.24	12.73	36.13	51.49	54.00	-2.51	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



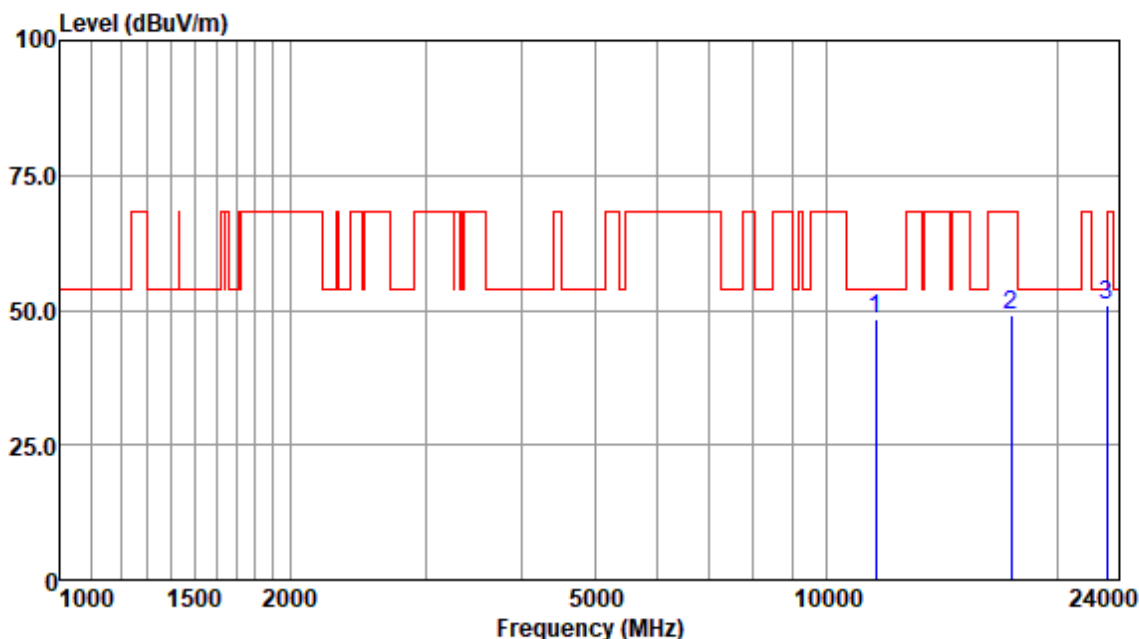
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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11570.00	41.04	35.78	7.44	36.02	48.24	54.00	-5.76	Peak
17355.00	33.90	40.95	10.32	36.25	48.92	68.20	-19.28	Peak
23140.00	29.28	44.62	13.12	36.16	50.86	68.20	-17.34	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



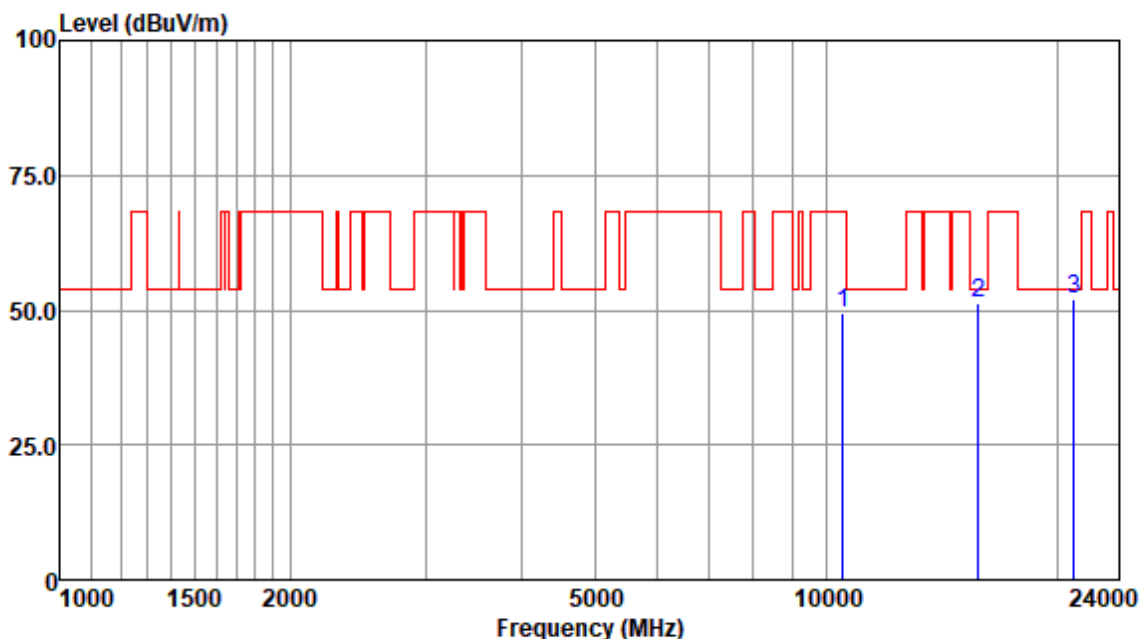
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10480.00	42.22	34.95	6.58	34.48	49.27	68.20	-18.93	Peak
15720.00	40.69	37.54	9.80	36.58	51.45	54.00	-2.55	Peak
20960.00	32.71	43.52	12.00	36.06	52.17	54.00	-1.83	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

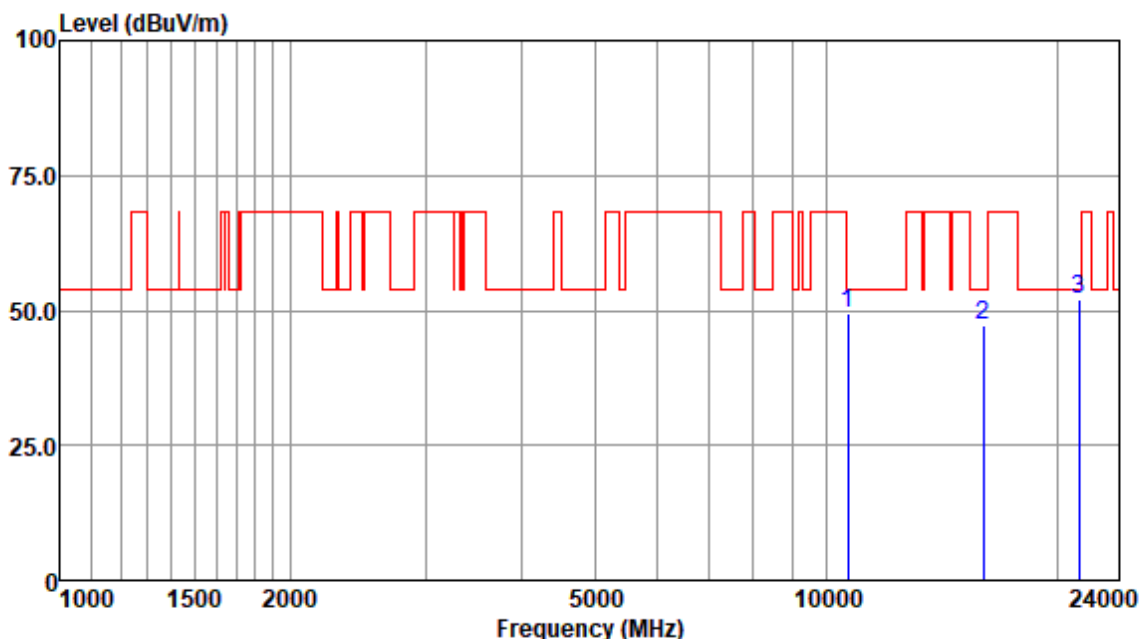


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Antenna Polarity : HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10640.00	42.41	35.10	6.68	34.61	49.58	54.00	-4.42	Peak
15960.00	37.34	37.74	8.60	36.42	47.26	54.00	-6.74	Peak
21280.00	32.37	43.69	12.18	36.07	52.17	54.00	-1.83	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

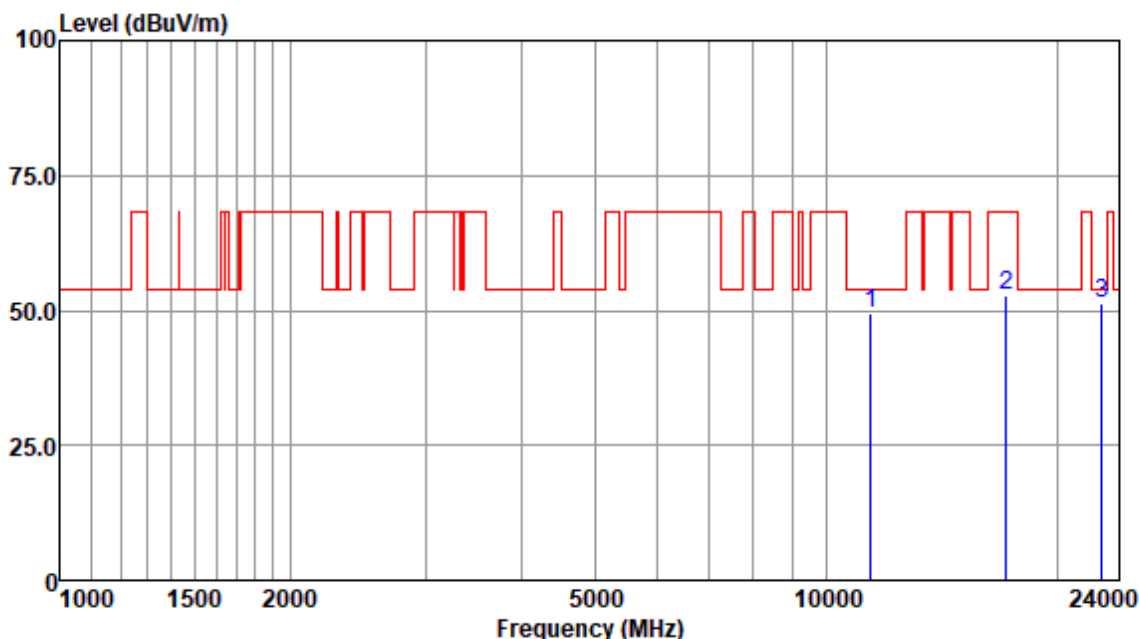


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11400.00	42.31	35.73	7.28	35.74	49.58	54.00	-4.42	Peak
17100.00	38.56	40.12	9.99	36.03	52.64	68.20	-15.56	Peak
22800.00	30.02	44.45	12.94	36.15	51.26	54.00	-2.74	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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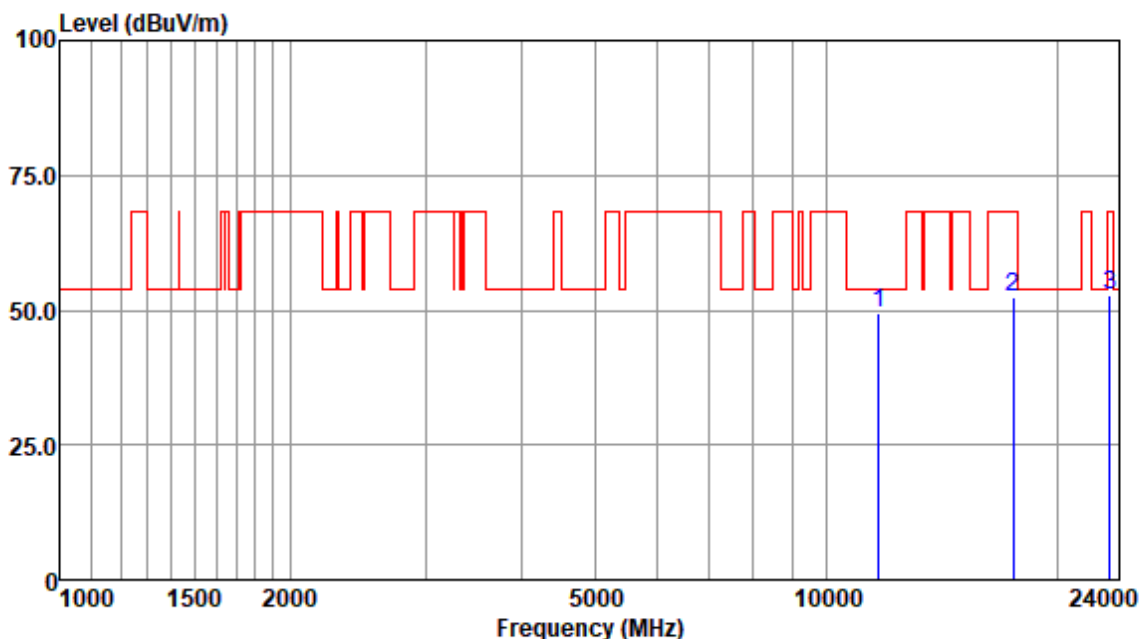
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11650.00	42.41	35.77	7.56	36.23	49.51	54.00	-4.49	Peak
17475.00	37.09	41.30	10.45	36.37	52.47	68.20	-15.73	Peak
23300.00	30.98	44.69	13.19	36.17	52.69	68.20	-15.51	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

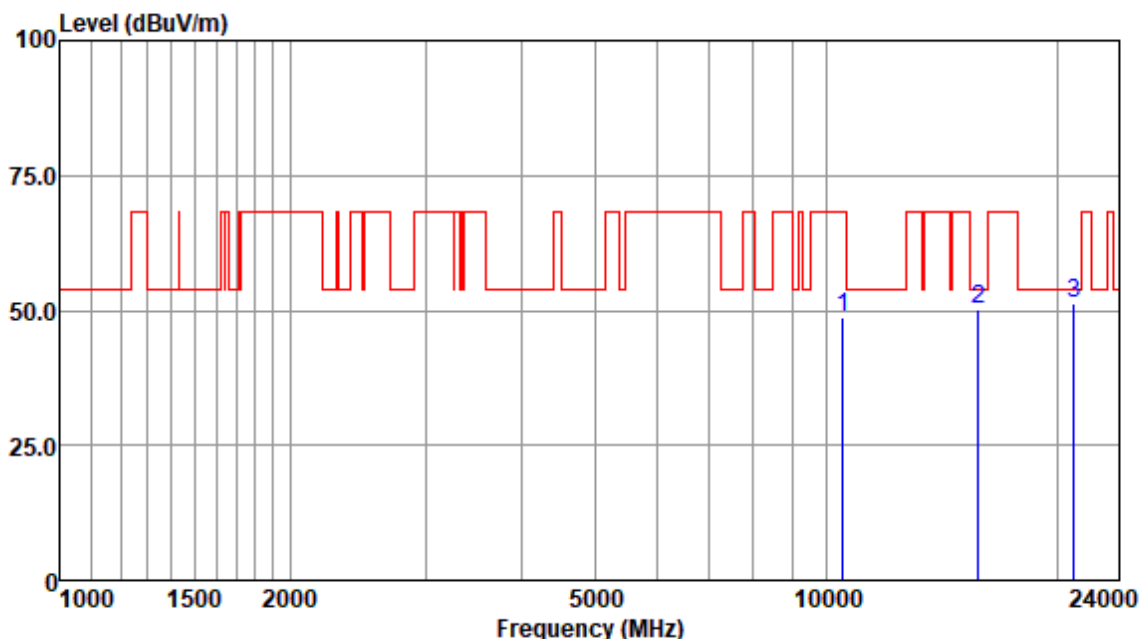


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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10480.00	41.52	34.95	6.58	34.48	48.57	68.20	-19.63	Peak
15720.00	39.38	37.54	9.80	36.58	50.14	54.00	-3.86	Peak
20960.00	31.81	43.52	12.00	36.06	51.27	54.00	-2.73	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

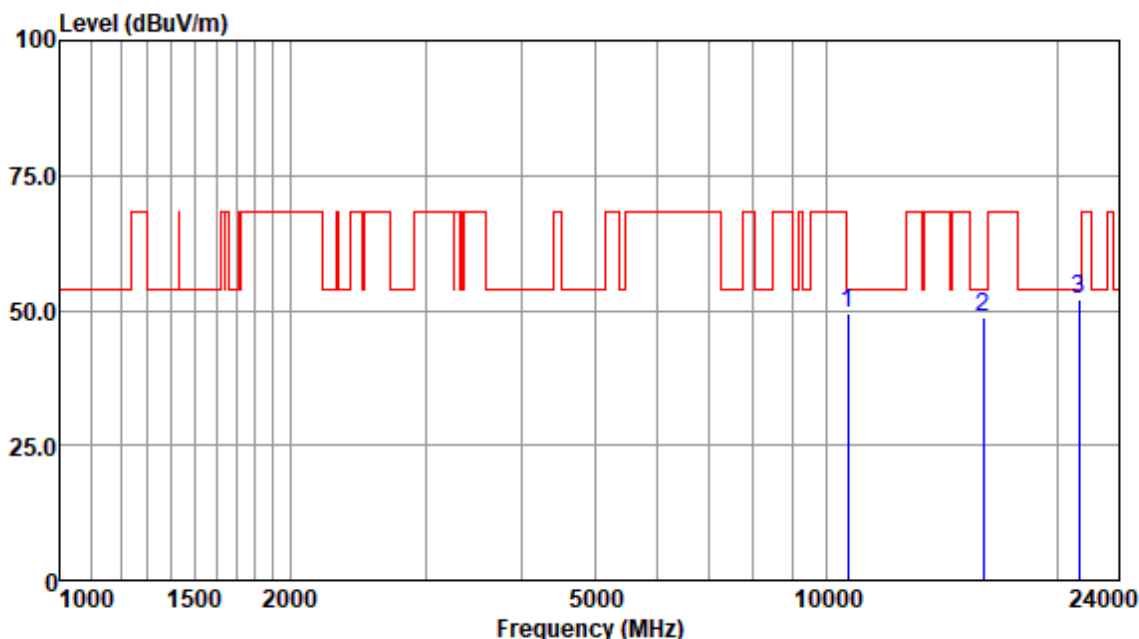


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10640.00	42.11	35.10	6.68	34.61	49.28	54.00	-4.72	Peak
15960.00	38.63	37.74	8.60	36.42	48.55	54.00	-5.45	Peak
21280.00	32.31	43.69	12.18	36.07	52.11	54.00	-1.89	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

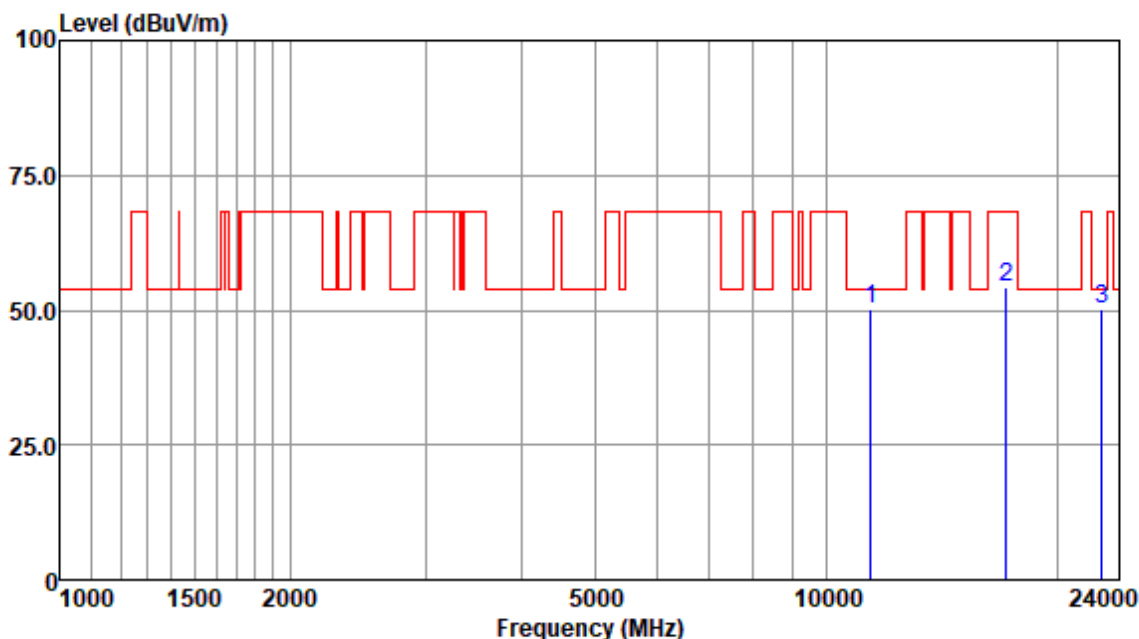


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11400.00	42.97	35.73	7.28	35.74	50.24	54.00	-3.76	Peak
17100.00	40.31	40.12	9.99	36.03	54.39	68.20	-13.81	Peak
22800.00	29.00	44.45	12.94	36.15	50.24	54.00	-3.76	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

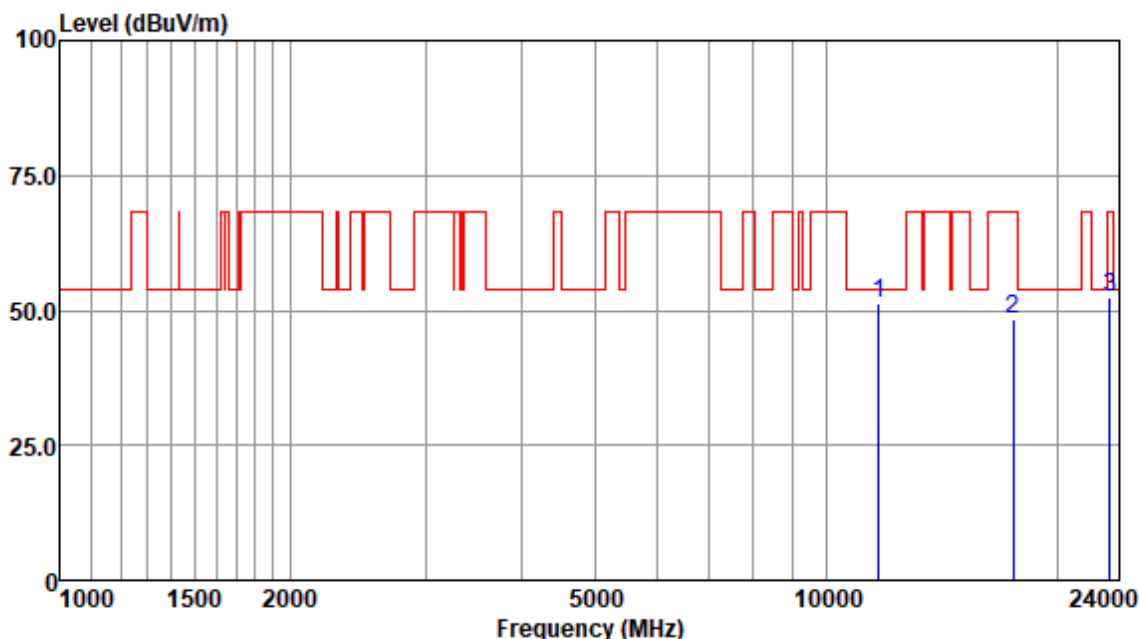


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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11650.00	44.14	35.77	7.56	36.23	51.24	54.00	-2.76	Peak
17475.00	32.88	41.30	10.45	36.37	48.26	68.20	-19.94	Peak
23300.00	30.76	44.69	13.19	36.17	52.47	68.20	-15.73	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

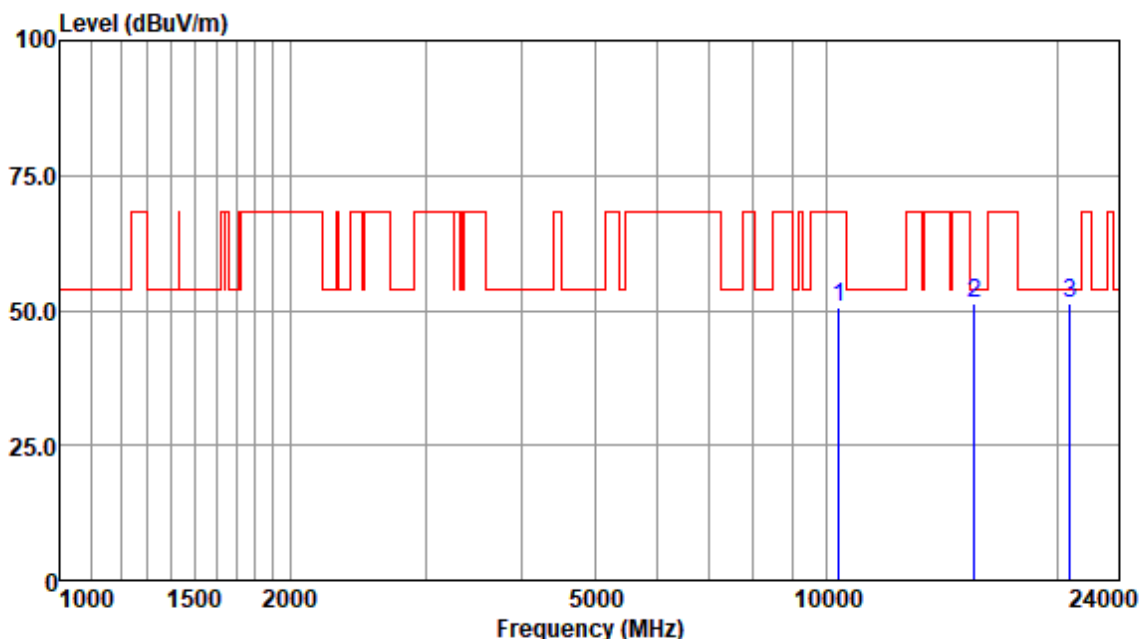


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.00	43.35	34.93	6.53	34.40	50.41	68.20	-17.79	Peak
15540.00	40.60	37.43	9.99	36.78	51.24	54.00	-2.76	Peak
20720.00	32.21	43.41	11.90	36.05	51.47	54.00	-2.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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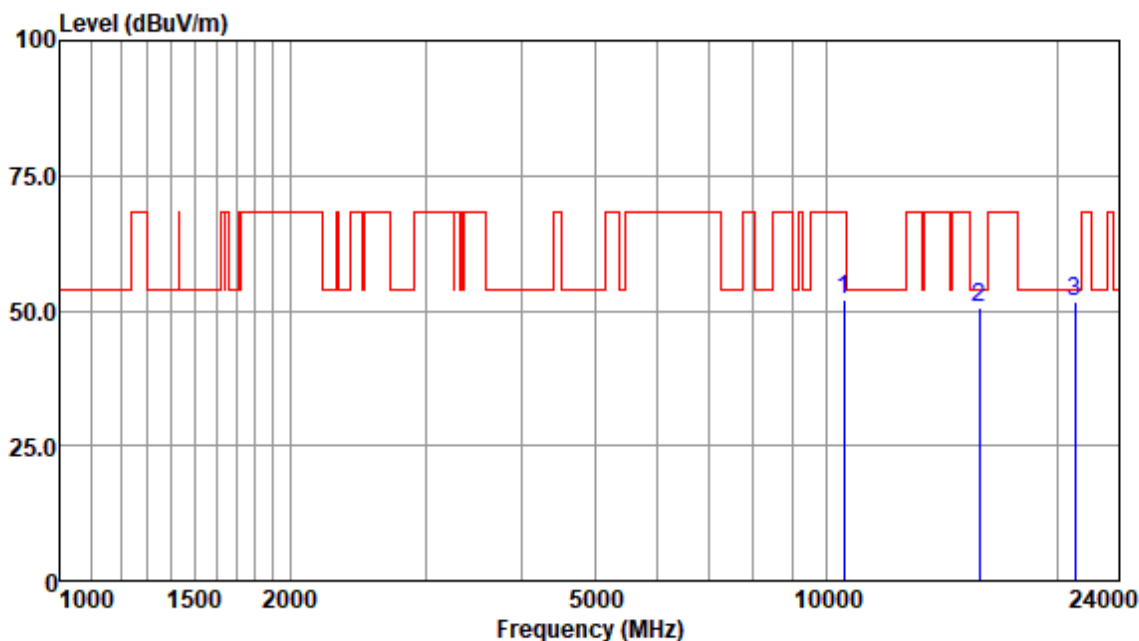
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10520.00	45.10	34.98	6.60	34.51	52.17	68.20	-16.03	Peak
15780.00	40.07	37.56	9.48	36.55	50.56	54.00	-3.44	Peak
21040.00	32.19	43.58	12.07	36.06	51.78	54.00	-2.22	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

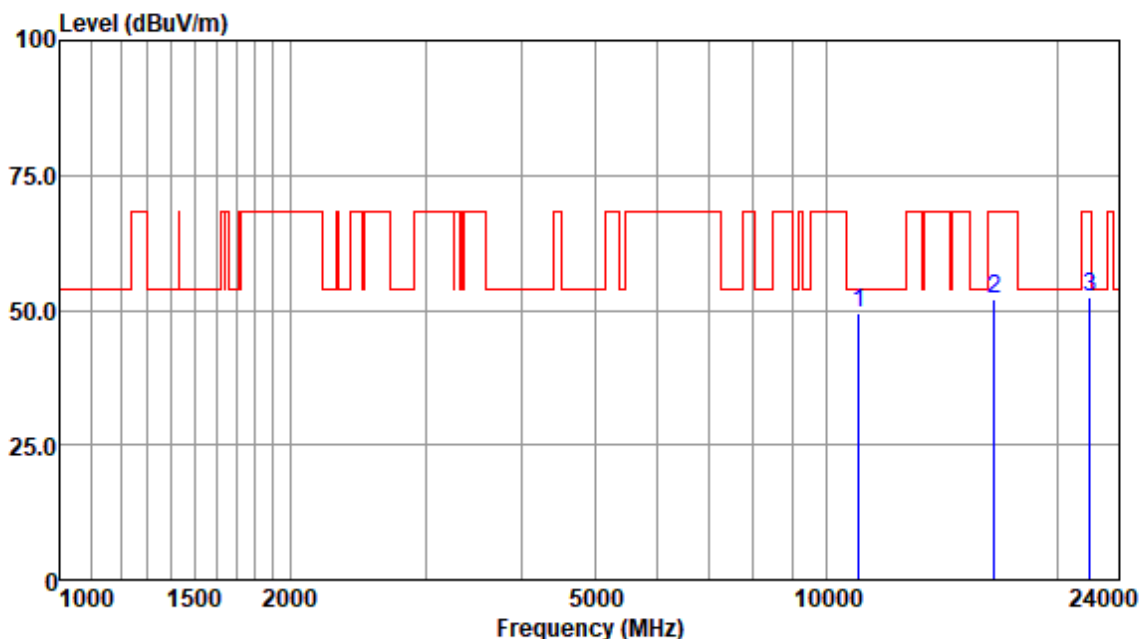


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	42.33	35.42	6.89	35.08	49.56	54.00	-4.44	Peak
16500.00	40.52	38.47	9.26	36.11	52.14	68.20	-16.06	Peak
22000.00	31.94	44.07	12.56	36.11	52.46	68.20	-15.74	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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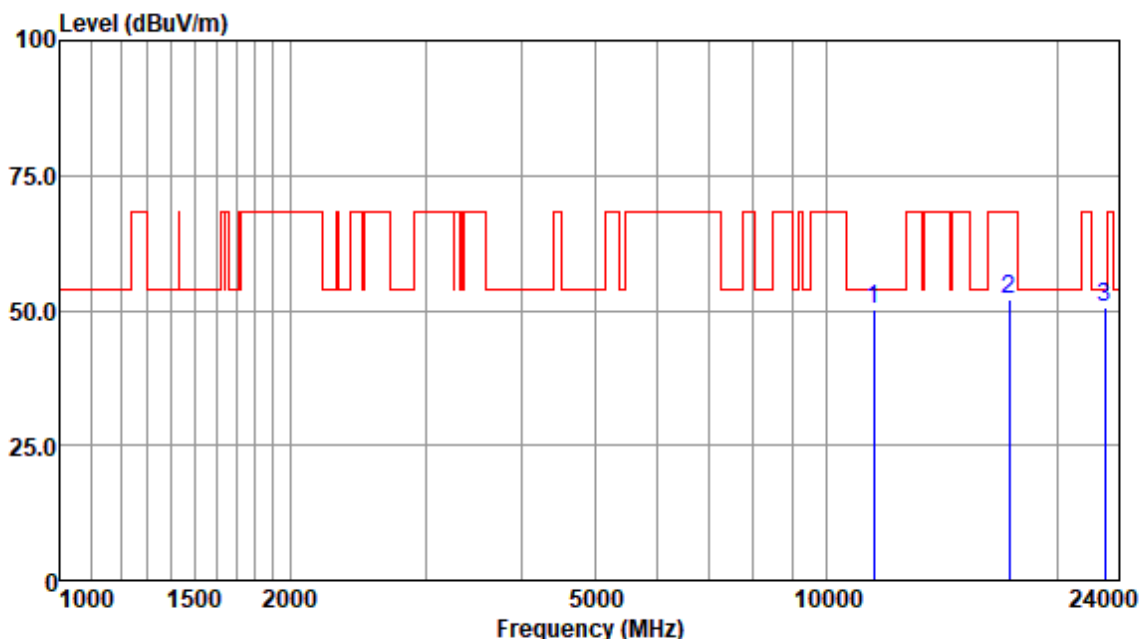
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	42.87	35.79	7.36	35.88	50.14	54.00	-3.86	Peak
17235.00	37.56	40.60	10.19	36.14	52.21	68.20	-15.99	Peak
22980.00	29.09	44.52	13.01	36.15	50.47	54.00	-3.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

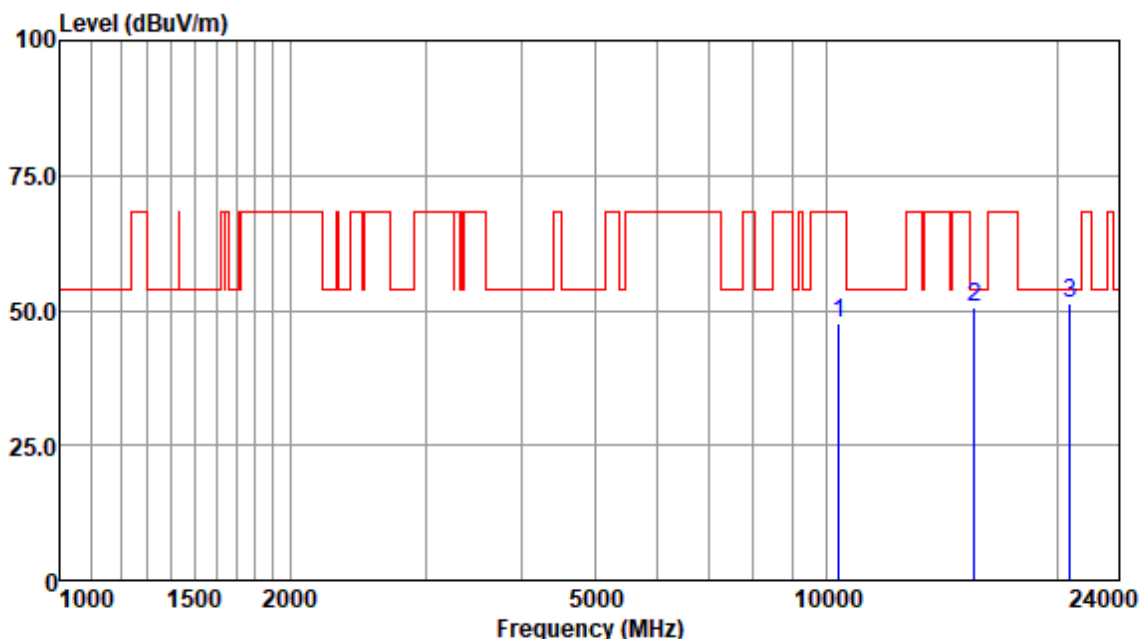


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.00	40.52	34.93	6.53	34.40	47.58	68.20	-20.62	Peak
15540.00	40.00	37.43	9.99	36.78	50.64	54.00	-3.36	Peak
20720.00	32.21	43.41	11.90	36.05	51.47	54.00	-2.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

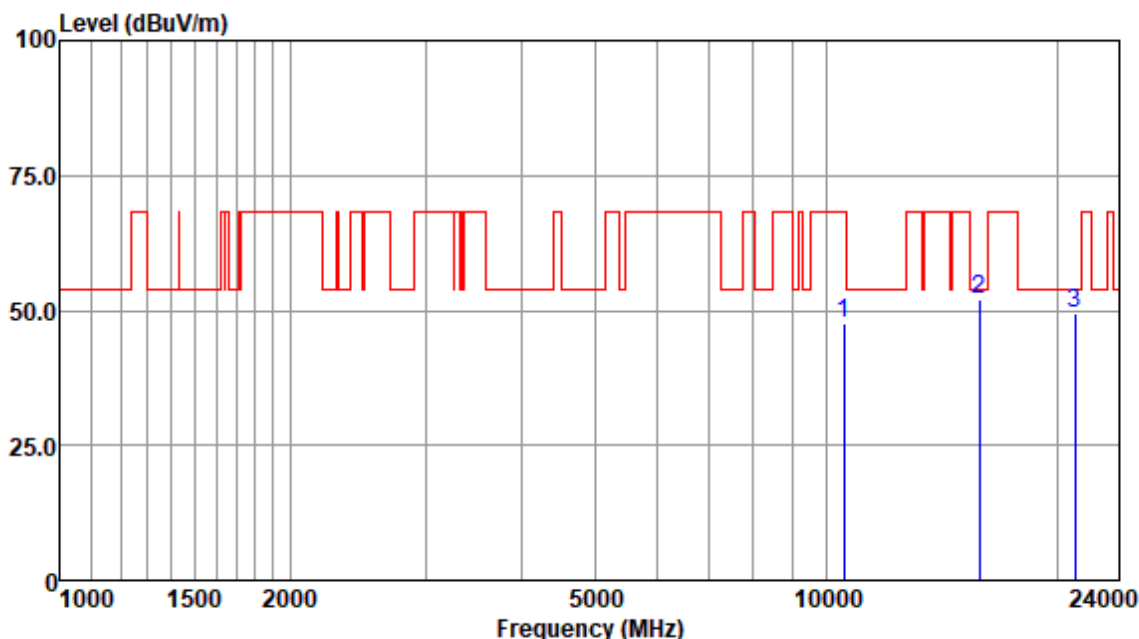


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10520.00	40.49	34.98	6.60	34.51	47.56	68.20	-20.64	Peak
15780.00	41.68	37.56	9.48	36.55	52.17	54.00	-1.83	Peak
21040.00	29.95	43.58	12.07	36.06	49.54	54.00	-4.46	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

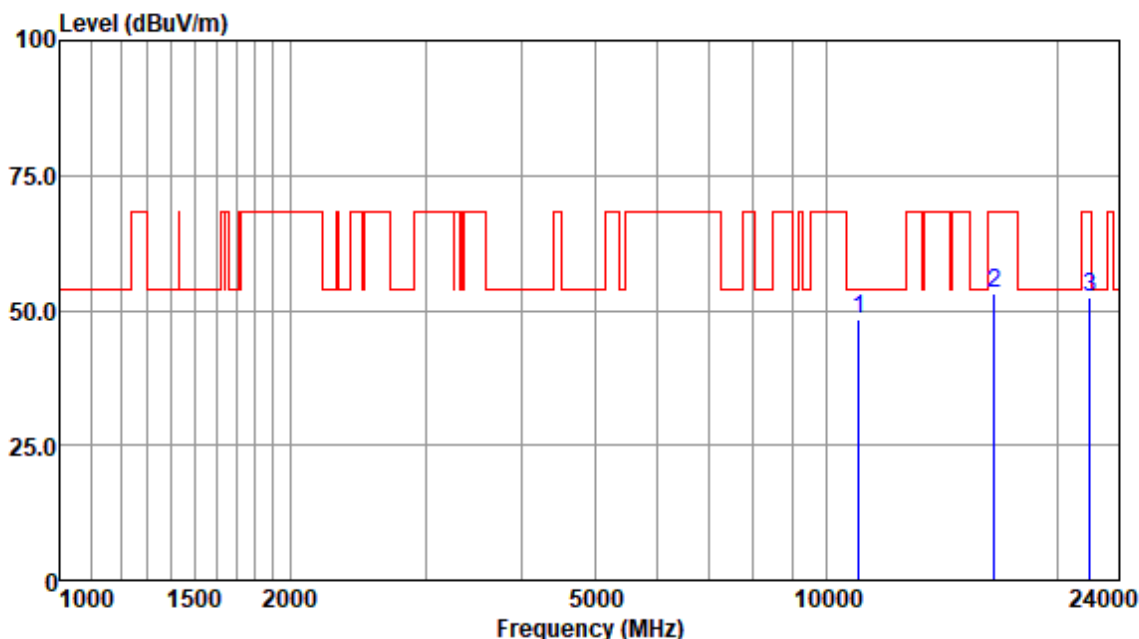


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	41.03	35.42	6.89	35.08	48.26	54.00	-5.74	Peak
16500.00	41.62	38.47	9.26	36.11	53.24	68.20	-14.96	Peak
22000.00	31.92	44.07	12.56	36.11	52.44	68.20	-15.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



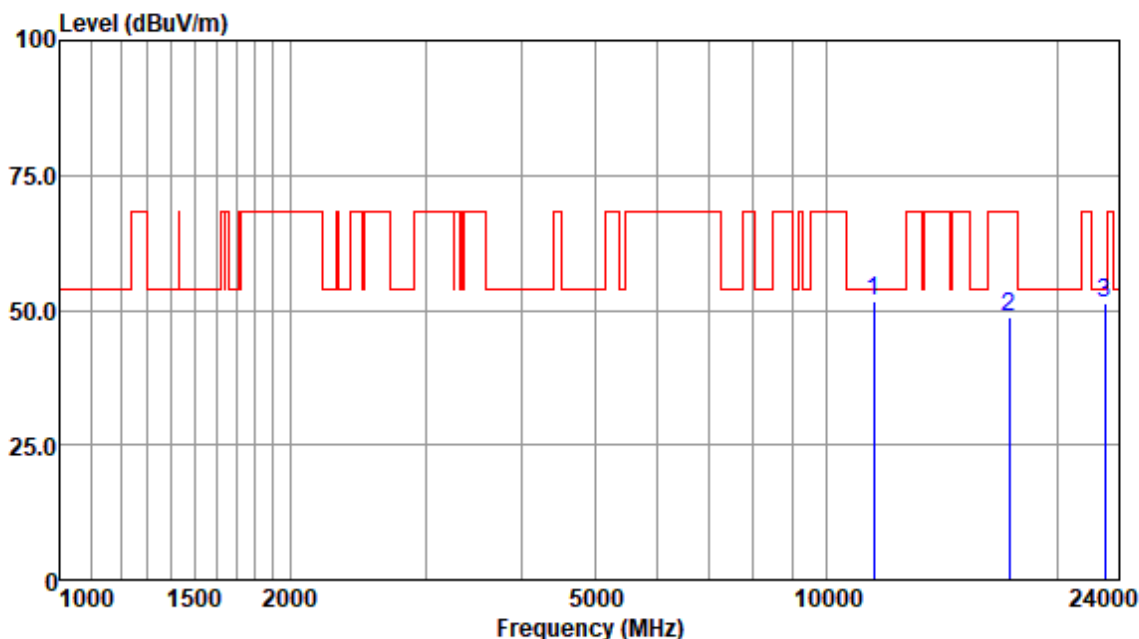
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	44.47	35.79	7.36	35.88	51.74	54.00	-2.26	Peak
17235.00	34.21	40.60	10.19	36.14	48.86	68.20	-19.34	Peak
22980.00	29.87	44.52	13.01	36.15	51.25	54.00	-2.75	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



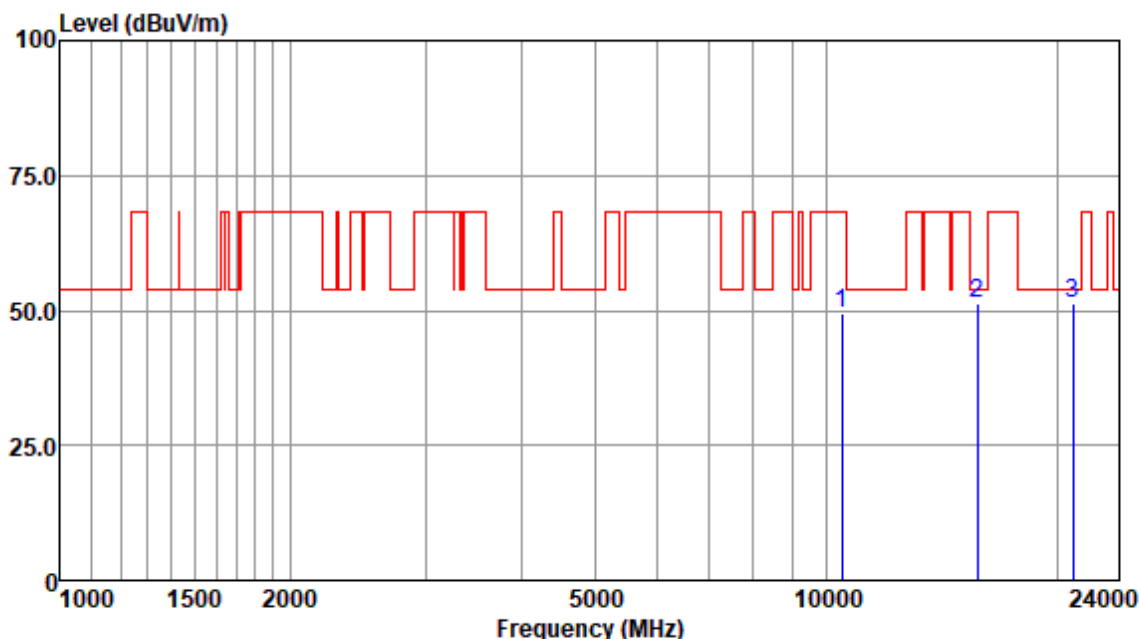
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	42.55	34.92	6.56	34.46	49.57	68.20	-18.63	Peak
15660.00	40.46	37.51	10.11	36.63	51.45	54.00	-2.55	Peak
20880.00	31.84	43.48	11.97	36.05	51.24	54.00	-2.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

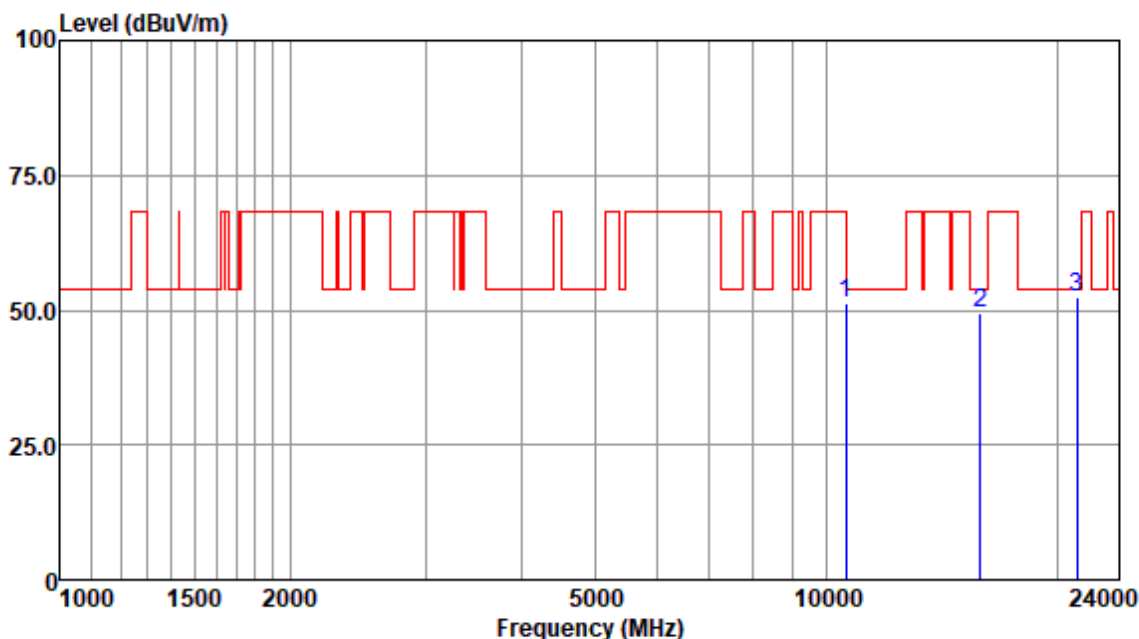


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	44.12	35.04	6.64	34.56	51.24	68.20	-16.96	Peak
15840.00	39.02	37.61	9.16	36.51	49.28	54.00	-4.72	Peak
21120.00	32.83	43.62	12.11	36.07	52.49	54.00	-1.51	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

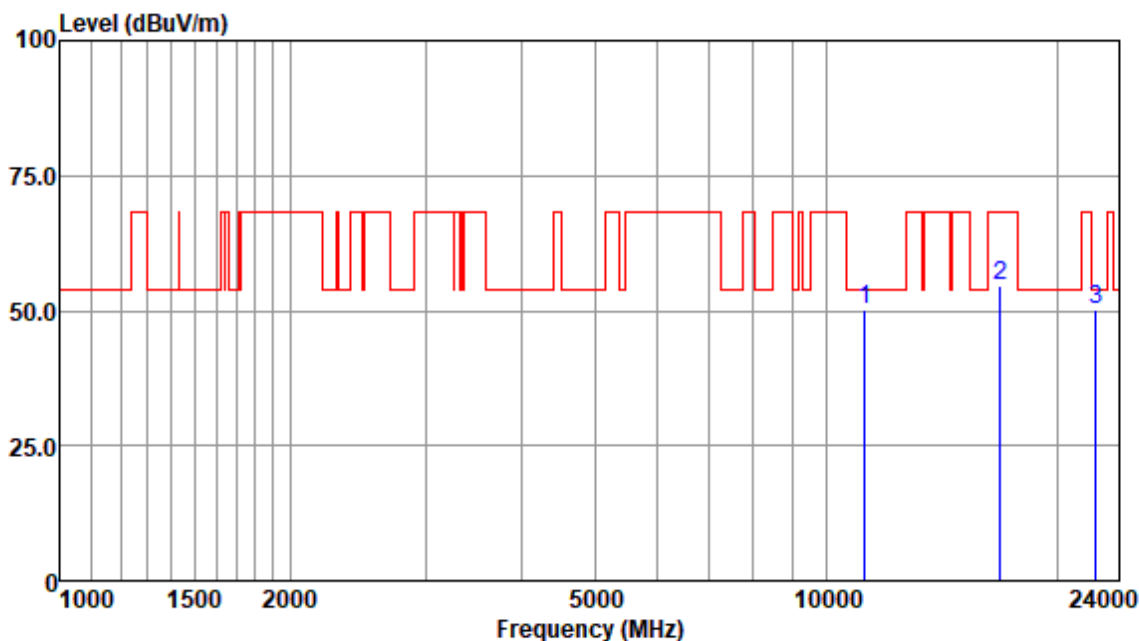


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	42.87	35.56	7.04	35.33	50.14	54.00	-3.86	Peak
16800.00	41.83	39.31	9.66	36.03	54.77	68.20	-13.43	Peak
22400.00	29.51	44.24	12.73	36.13	50.35	54.00	-3.65	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

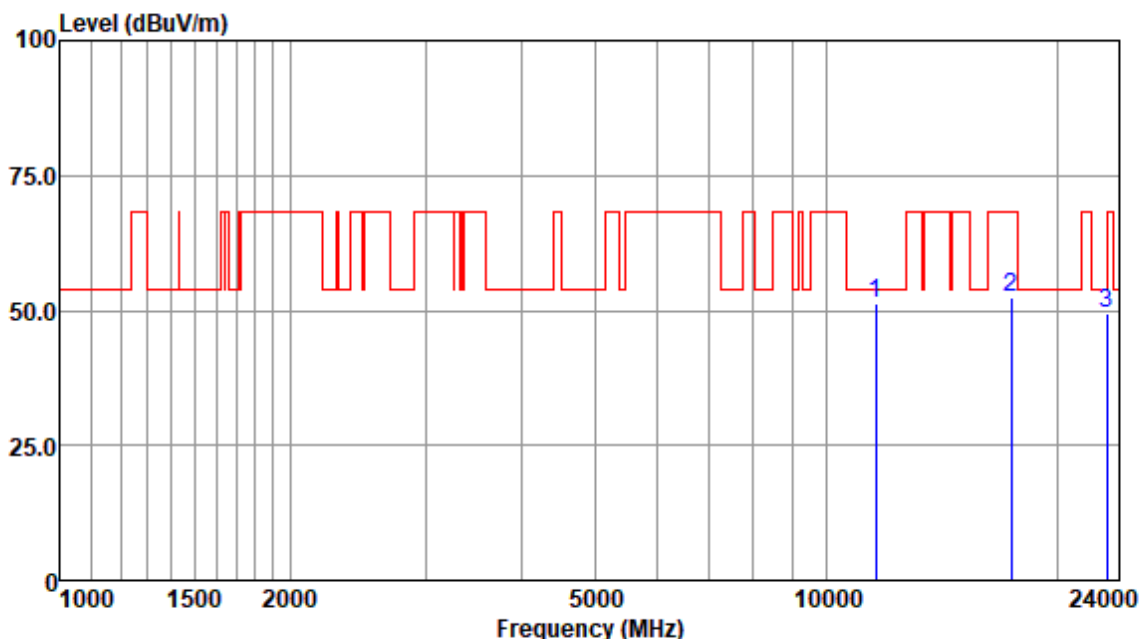


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11570.00	44.04	35.78	7.44	36.02	51.24	54.00	-2.76	Peak
17355.00	37.42	40.95	10.32	36.25	52.44	68.20	-15.76	Peak
23140.00	27.78	44.62	13.12	36.16	49.36	68.20	-18.84	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

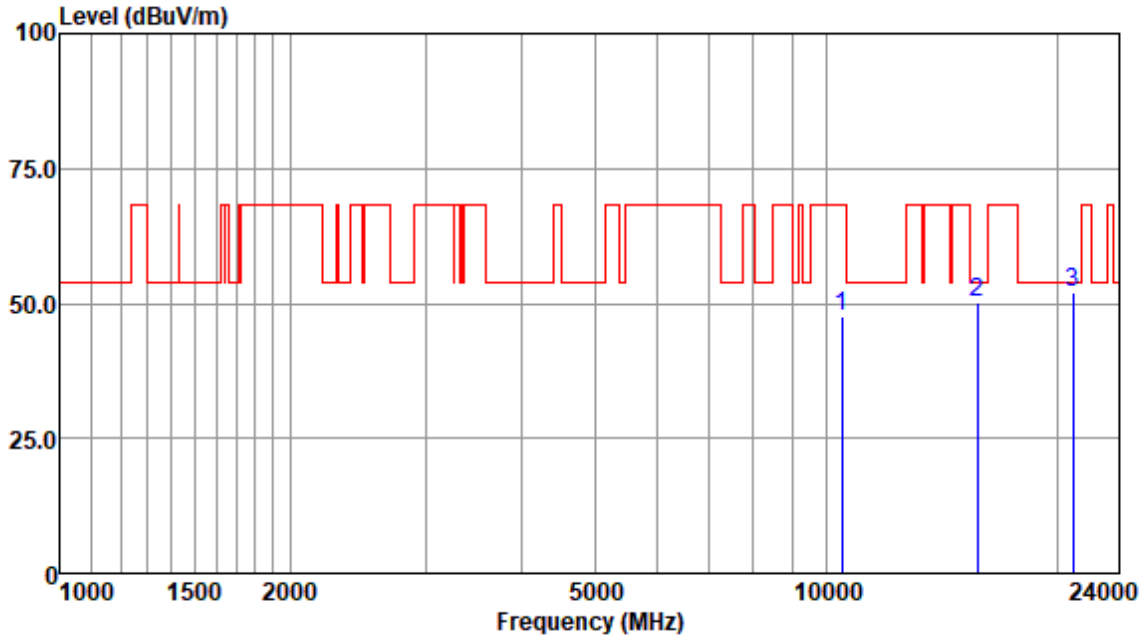


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	40.56	34.92	6.56	34.46	47.58	68.20	-20.62	Peak
15660.00	39.25	37.51	10.11	36.63	50.24	54.00	-3.76	Peak
20880.00	32.77	43.48	11.97	36.05	52.17	54.00	-1.83	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

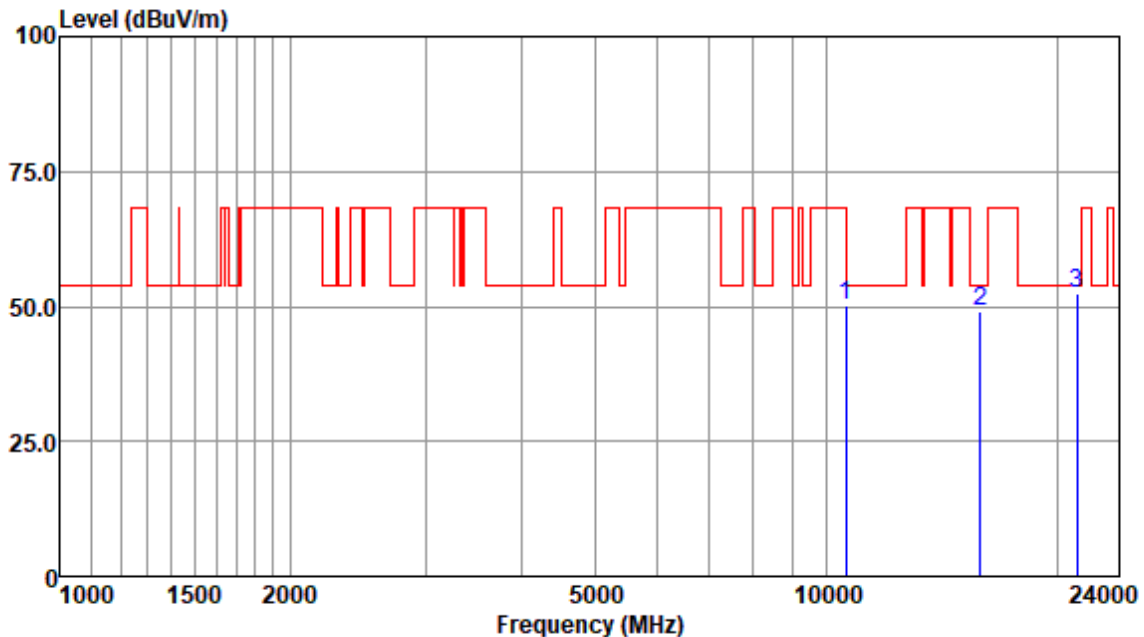


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	42.99	35.04	6.64	34.56	50.11	68.20	-18.09	Peak
15840.00	38.90	37.61	9.16	36.51	49.16	54.00	-4.84	Peak
21120.00	32.81	43.62	12.11	36.07	52.47	54.00	-1.53	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



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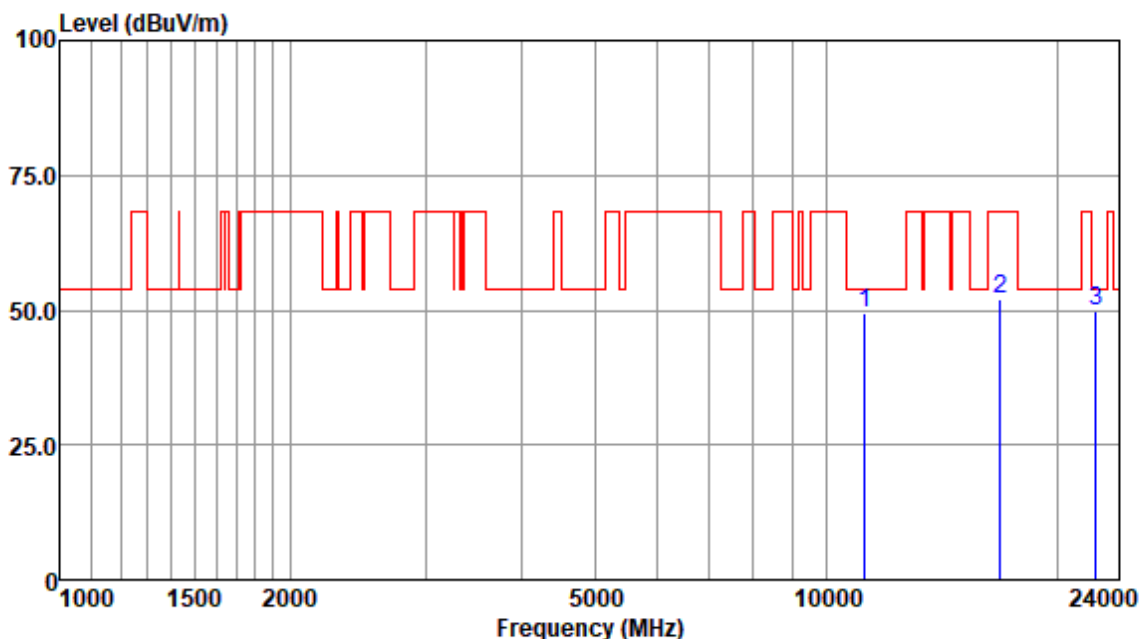
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Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	42.31	35.56	7.04	35.33	49.58	54.00	-4.42	Peak
16800.00	39.20	39.31	9.66	36.03	52.14	68.20	-16.06	Peak
22400.00	29.12	44.24	12.73	36.13	49.96	54.00	-4.04	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



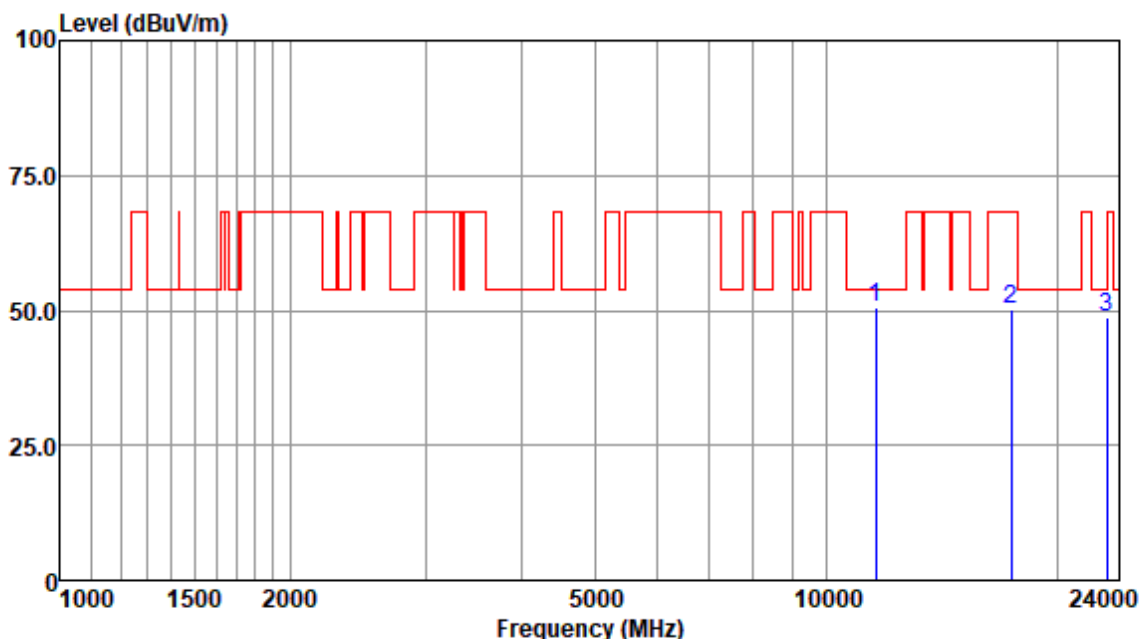
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11570.00	43.21	35.78	7.44	36.02	50.41	54.00	-3.59	Peak
17355.00	35.12	40.95	10.32	36.25	50.14	68.20	-18.06	Peak
23140.00	27.11	44.62	13.12	36.16	48.69	68.20	-19.51	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

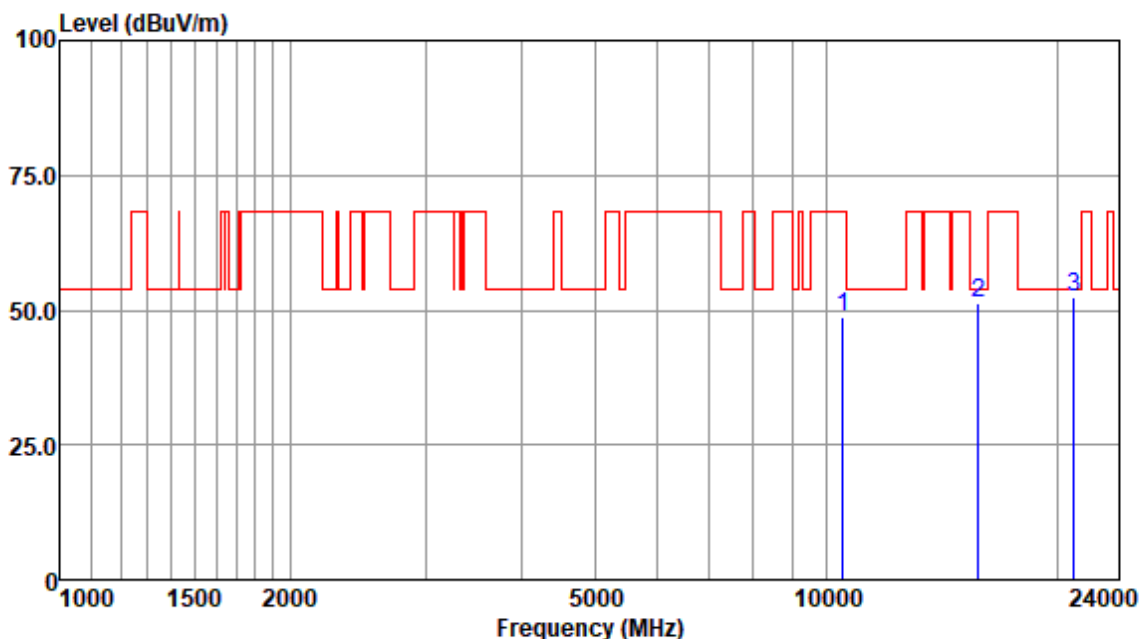


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10480.00	41.62	34.95	6.58	34.48	48.67	68.20	-19.53	Peak
15720.00	40.48	37.54	9.80	36.58	51.24	54.00	-2.76	Peak
20960.00	33.01	43.52	12.00	36.06	52.47	54.00	-1.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

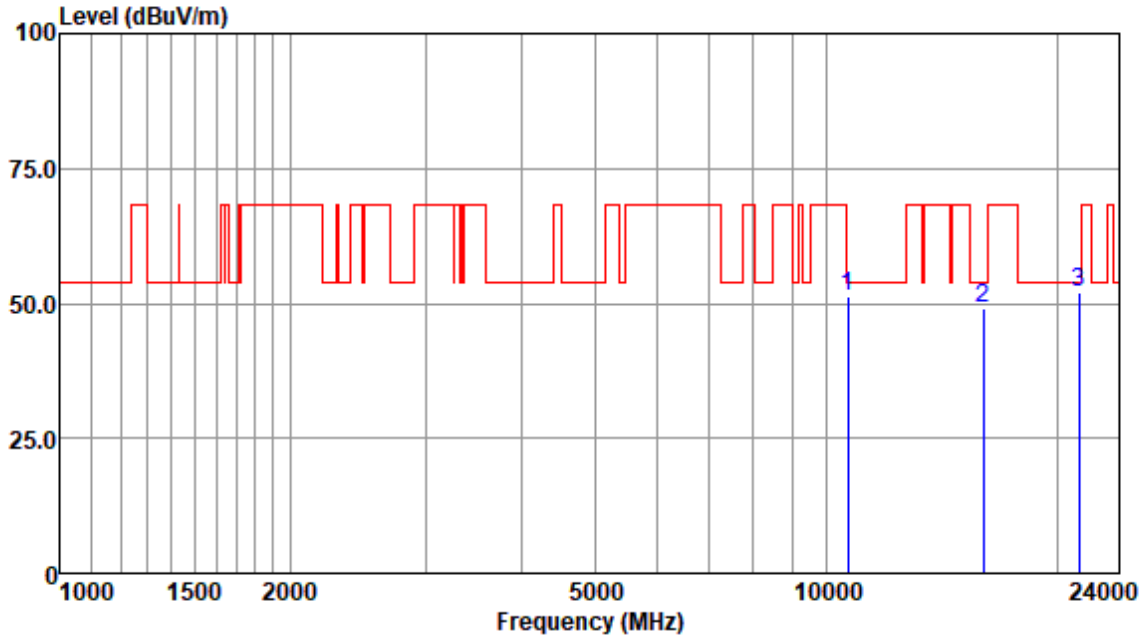


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10640.00	44.09	35.10	6.68	34.61	51.26	54.00	-2.74	Peak
15960.00	39.03	37.74	8.60	36.42	48.95	54.00	-5.05	Peak
21280.00	32.37	43.69	12.18	36.07	52.17	54.00	-1.83	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

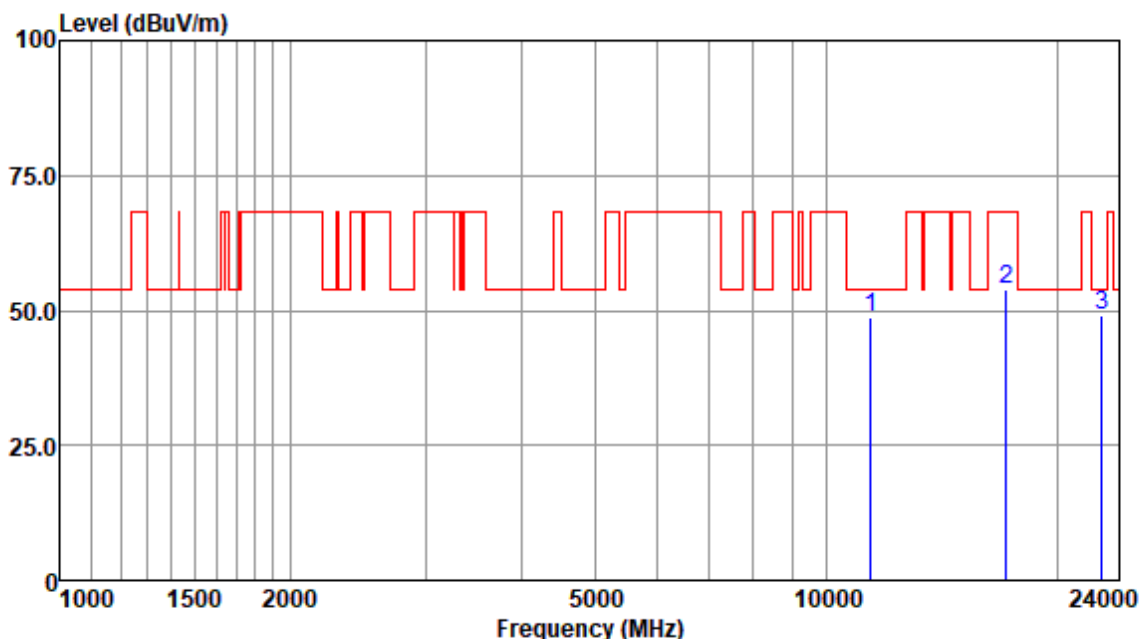


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11400.00	41.37	35.73	7.28	35.74	48.64	54.00	-5.36	Peak
17100.00	39.77	40.12	9.99	36.03	53.85	68.20	-14.35	Peak
22800.00	28.00	44.45	12.94	36.15	49.24	54.00	-4.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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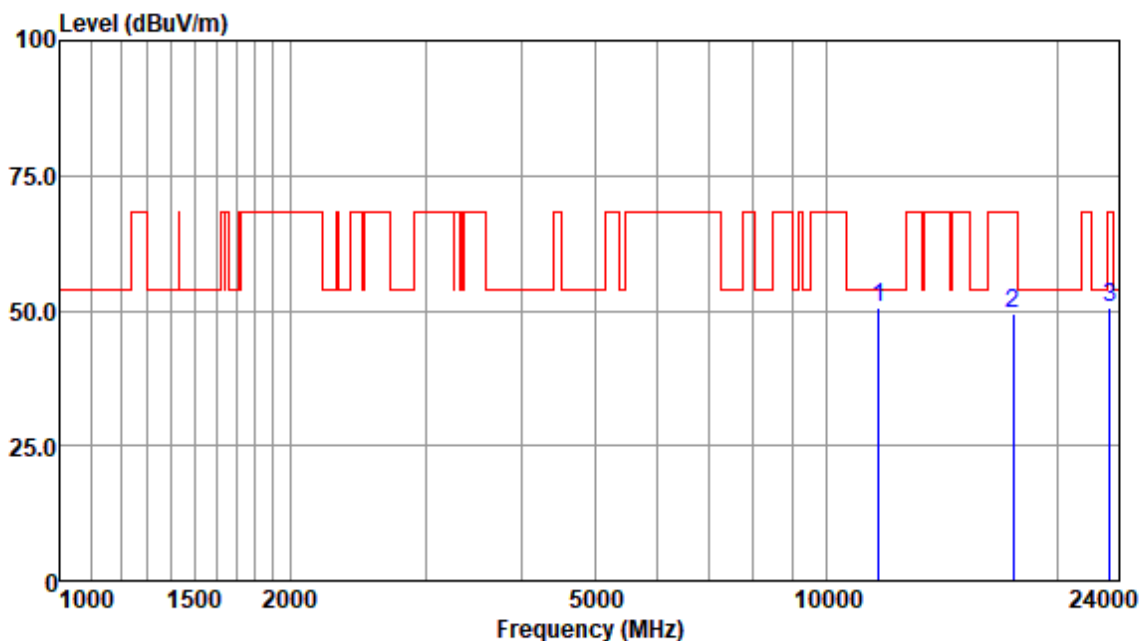
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11650.00	43.35	35.77	7.56	36.23	50.45	54.00	-3.55	Peak
17475.00	33.90	41.30	10.45	36.37	49.28	68.20	-18.92	Peak
23300.00	28.70	44.69	13.19	36.17	50.41	68.20	-17.79	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

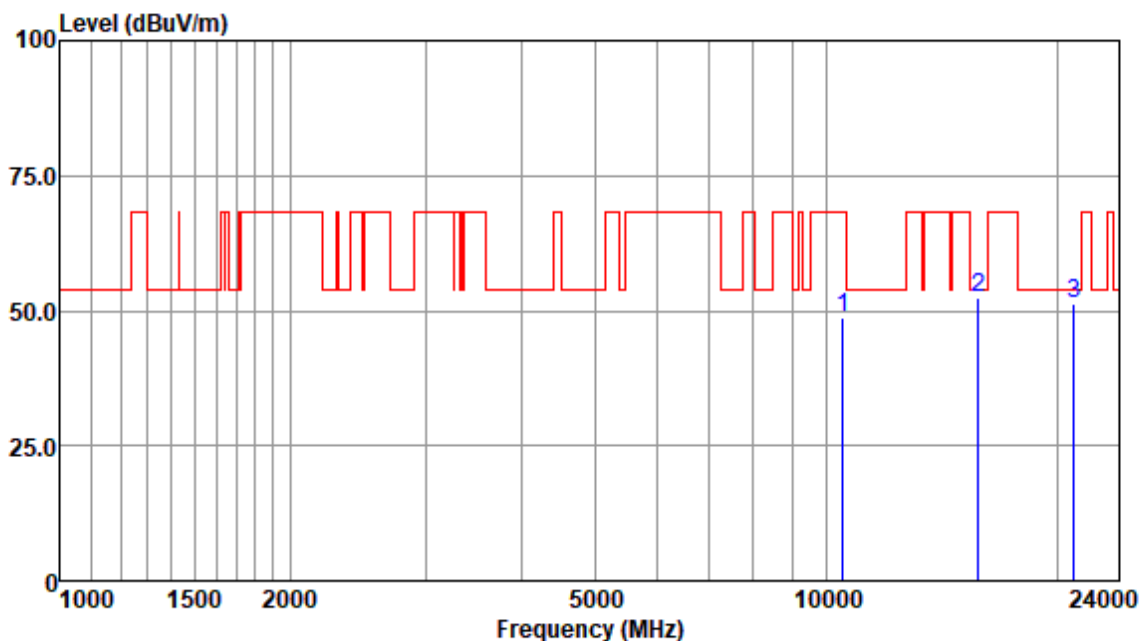


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10480.00	41.60	34.95	6.58	34.48	48.65	68.20	-19.55	Peak
15720.00	41.48	37.54	9.80	36.58	52.24	54.00	-1.76	Peak
20960.00	31.81	43.52	12.00	36.06	51.27	54.00	-2.73	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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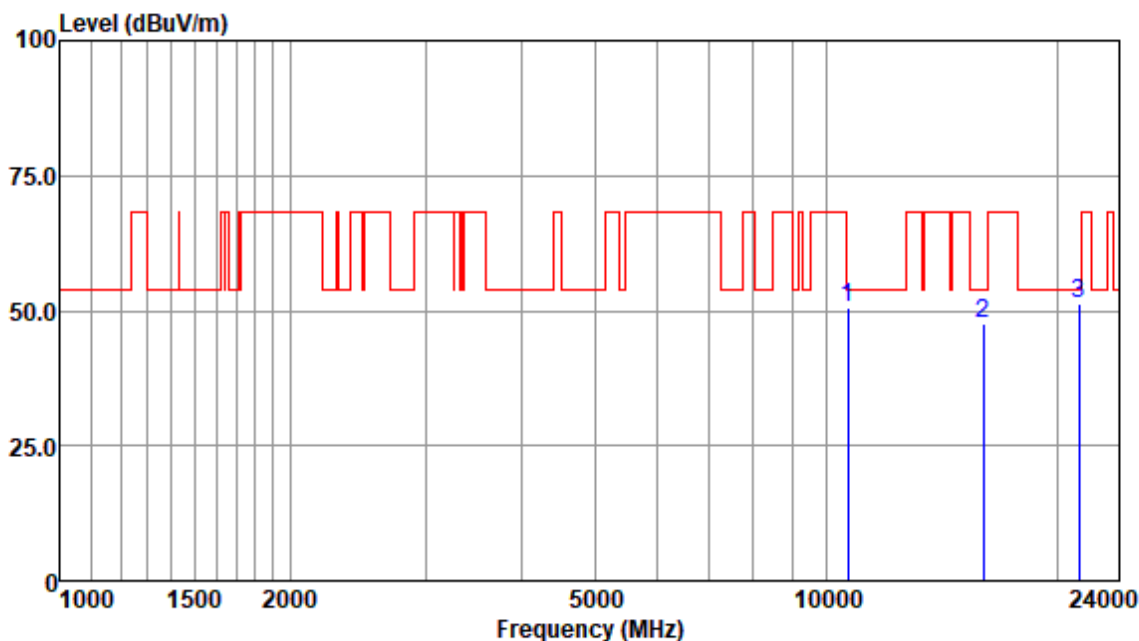
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10640.00	43.29	35.10	6.68	34.61	50.46	54.00	-3.54	Peak
15960.00	37.64	37.74	8.60	36.42	47.56	54.00	-6.44	Peak
21280.00	31.44	43.69	12.18	36.07	51.24	54.00	-2.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

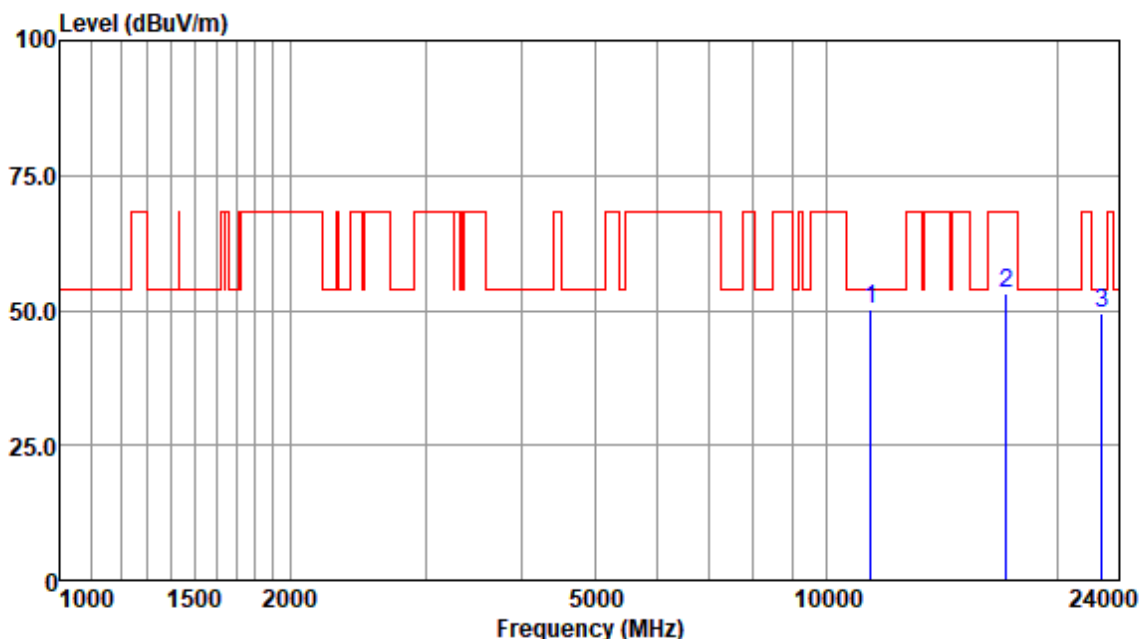


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11400.00	42.95	35.73	7.28	35.74	50.22	54.00	-3.78	Peak
17100.00	39.10	40.12	9.99	36.03	53.18	68.20	-15.02	Peak
22800.00	28.09	44.45	12.94	36.15	49.33	54.00	-4.67	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



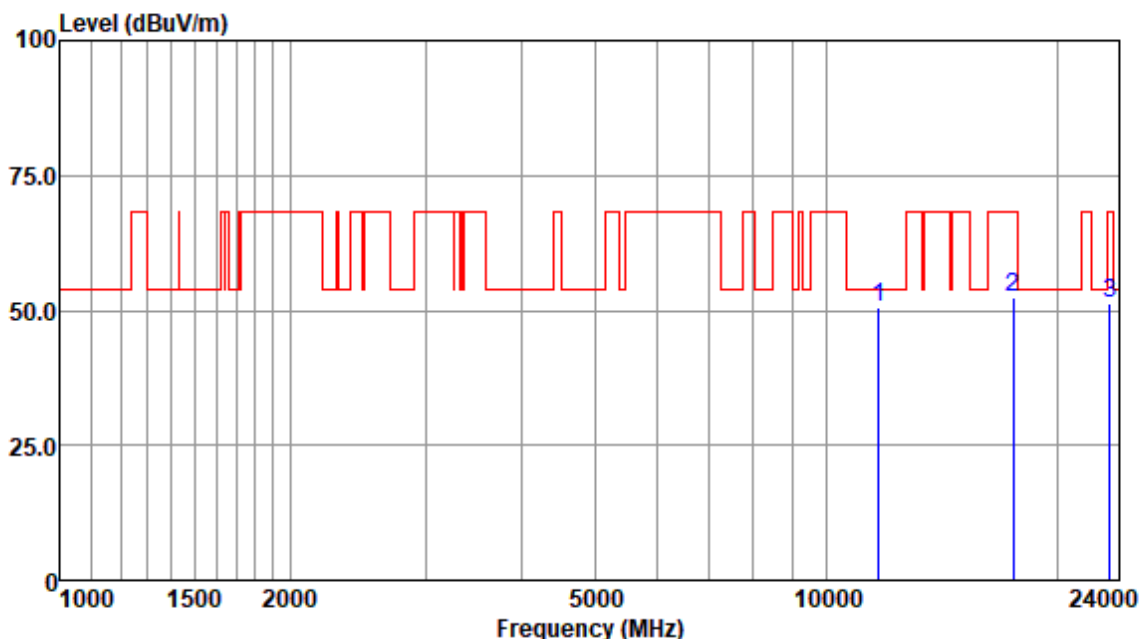
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11650.00	43.44	35.77	7.56	36.23	50.54	54.00	-3.46	Peak
17475.00	36.91	41.30	10.45	36.37	52.29	68.20	-15.91	Peak
23300.00	29.76	44.69	13.19	36.17	51.47	68.20	-16.73	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

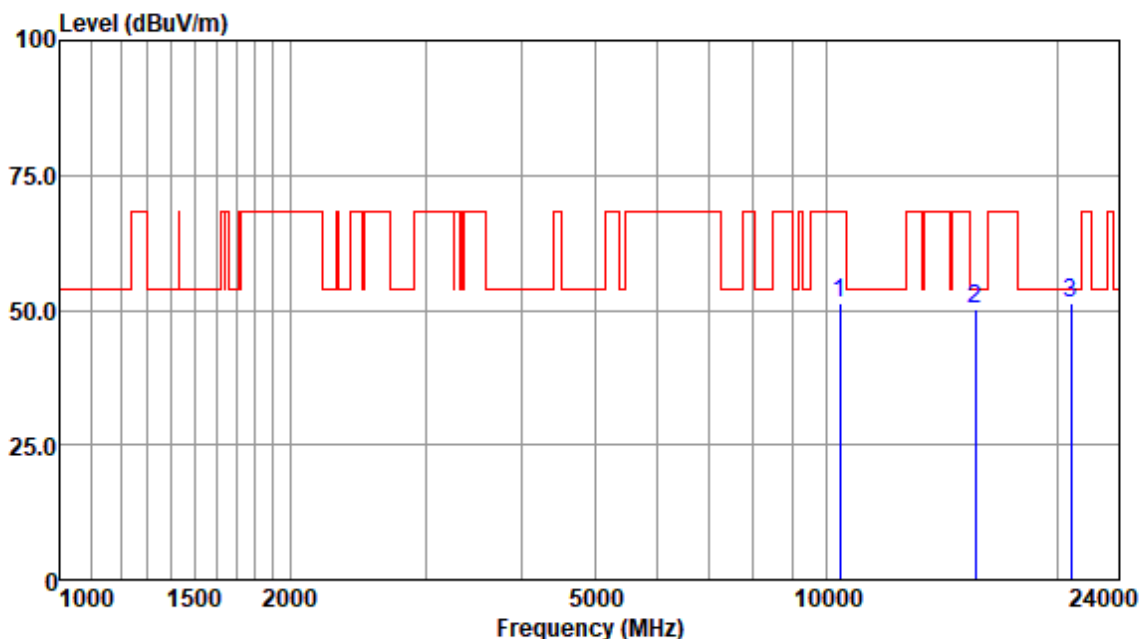


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10380.00	44.16	34.93	6.53	34.40	51.22	68.20	-16.98	Peak
15570.00	39.46	37.45	10.03	36.73	50.21	54.00	-3.79	Peak
20760.00	32.18	43.41	11.90	36.05	51.44	54.00	-2.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

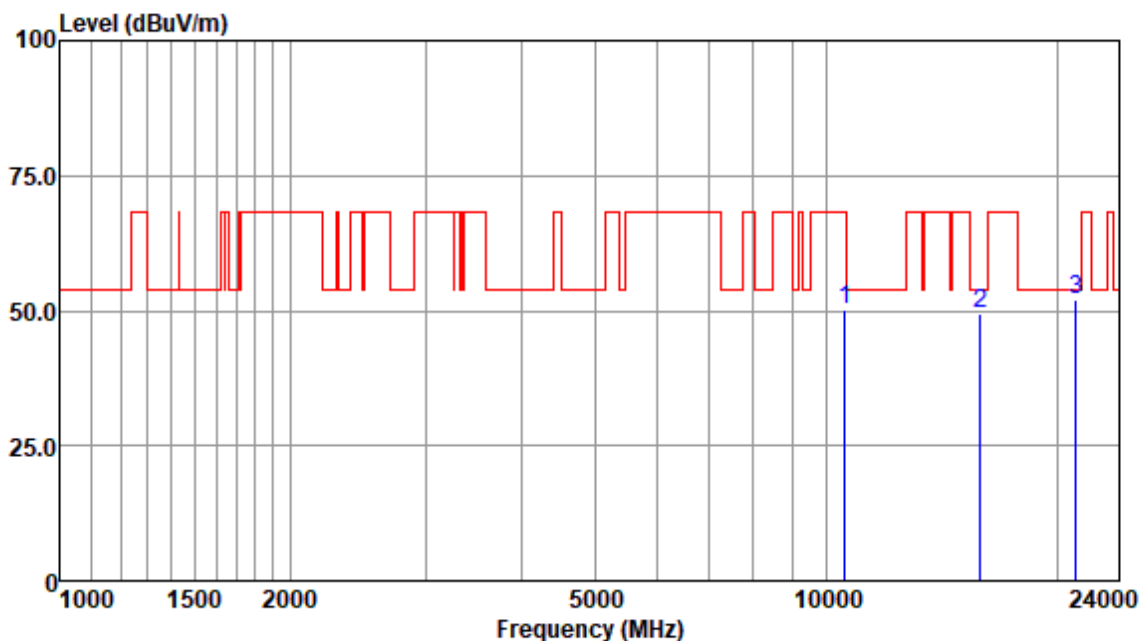


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10540.00	43.16	35.01	6.62	34.54	50.25	68.20	-17.95	Peak
15810.00	39.21	37.61	9.16	36.51	49.47	54.00	-4.53	Peak
21080.00	32.59	43.58	12.07	36.06	52.18	54.00	-1.82	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

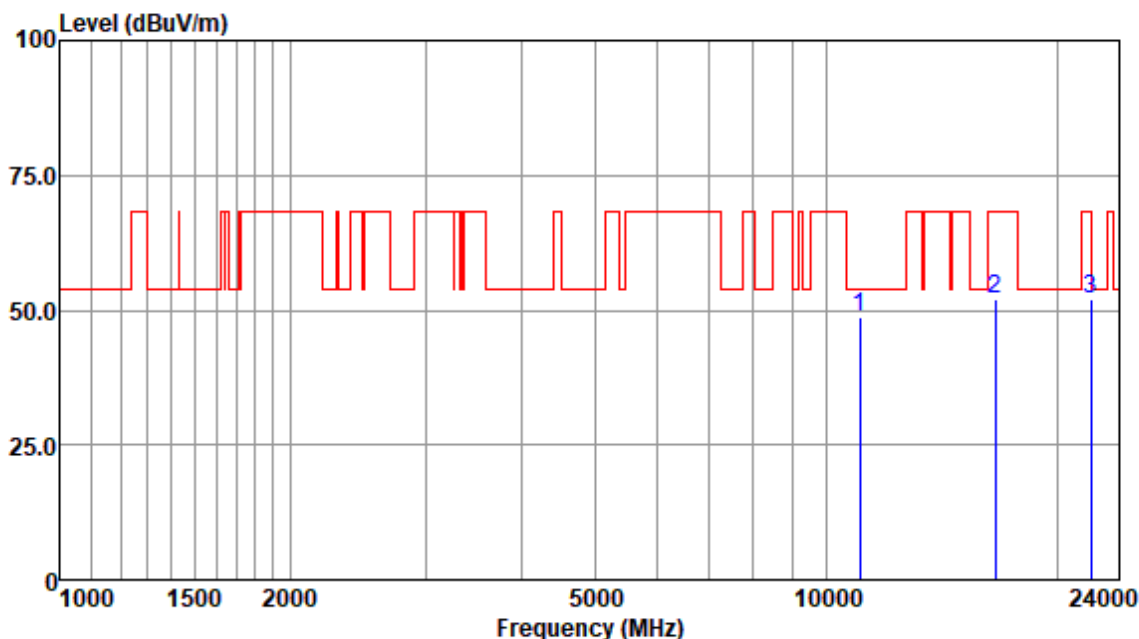


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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11020.00	41.54	35.42	6.89	35.08	48.77	54.00	-5.23	Peak
16530.00	40.09	38.61	9.33	36.09	51.94	68.20	-16.26	Peak
22040.00	31.42	44.07	12.56	36.11	51.94	54.00	-2.06	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

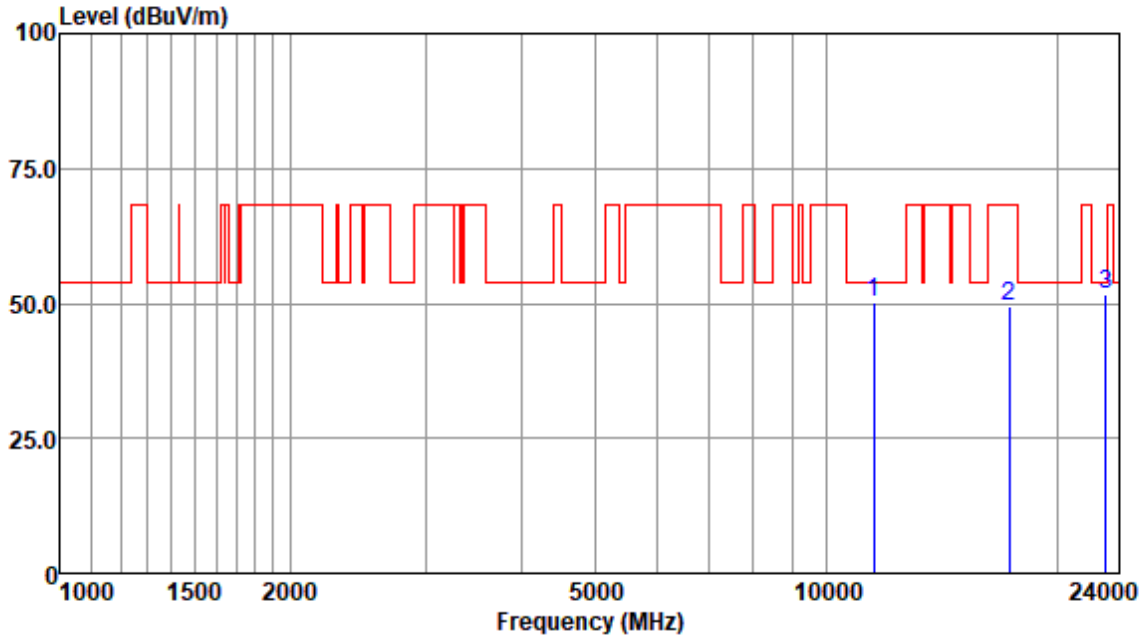


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11510.00	43.02	35.78	7.40	35.95	50.25	54.00	-3.75	Peak
17265.00	34.92	40.60	10.19	36.14	49.57	68.20	-18.63	Peak
23020.00	30.05	44.55	13.05	36.16	51.49	54.00	-2.51	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

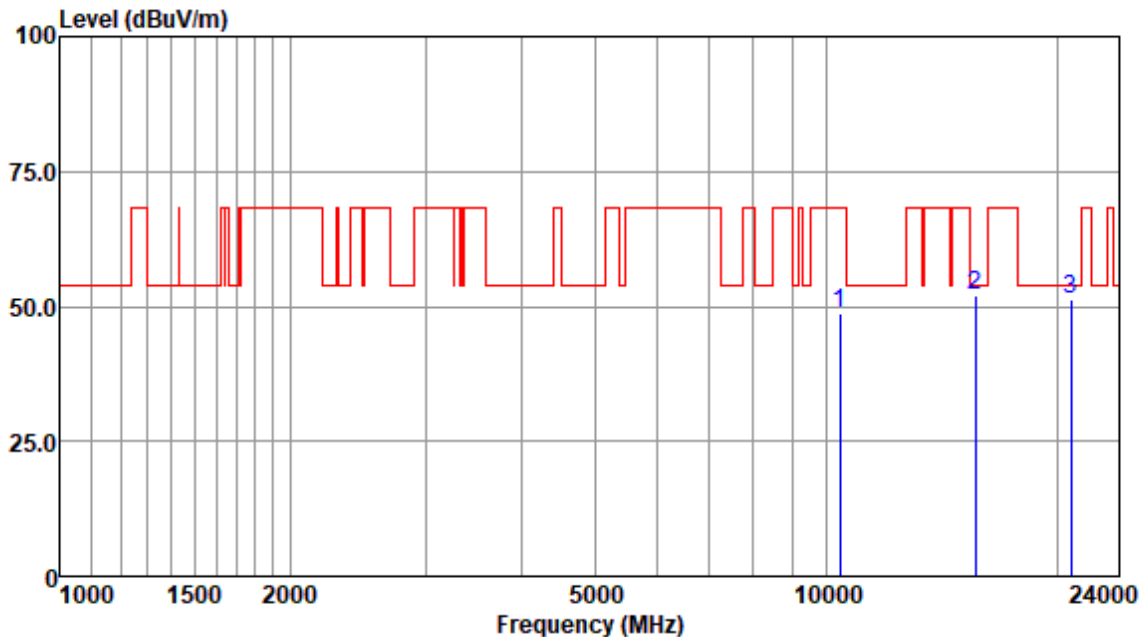


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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10380.00	41.59	34.93	6.53	34.40	48.65	68.20	-19.55	Peak
15570.00	41.39	37.45	10.03	36.73	52.14	54.00	-1.86	Peak
20760.00	32.21	43.41	11.90	36.05	51.47	54.00	-2.53	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

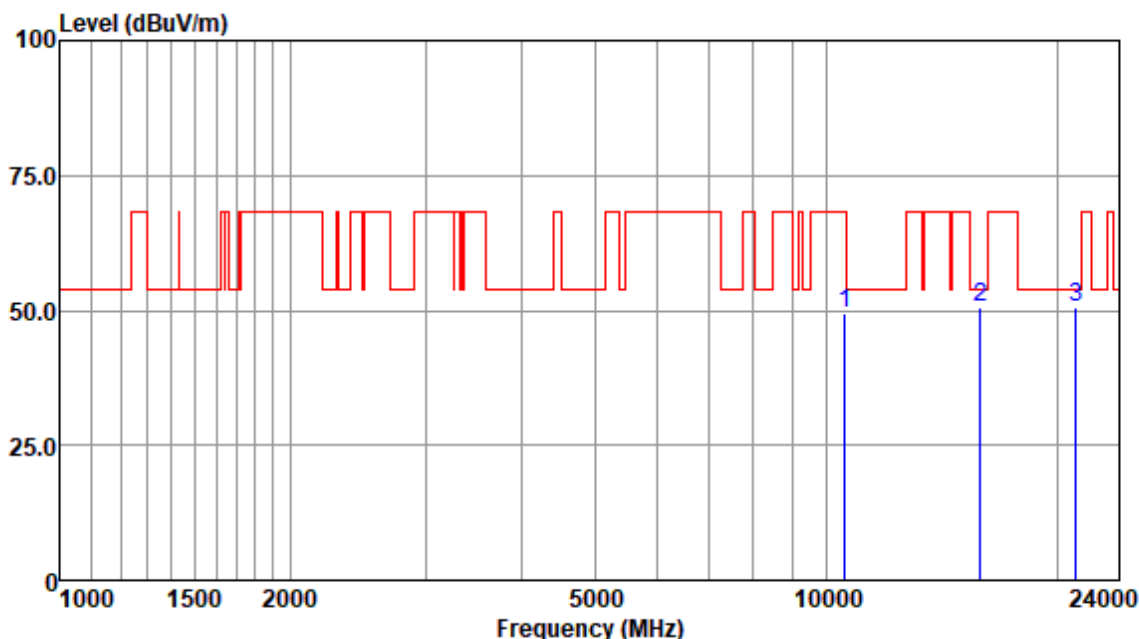


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10540.00	42.42	35.01	6.62	34.54	49.51	68.20	-18.69	Peak
15810.00	40.21	37.61	9.16	36.51	50.47	54.00	-3.53	Peak
21080.00	31.00	43.58	12.07	36.06	50.59	54.00	-3.41	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

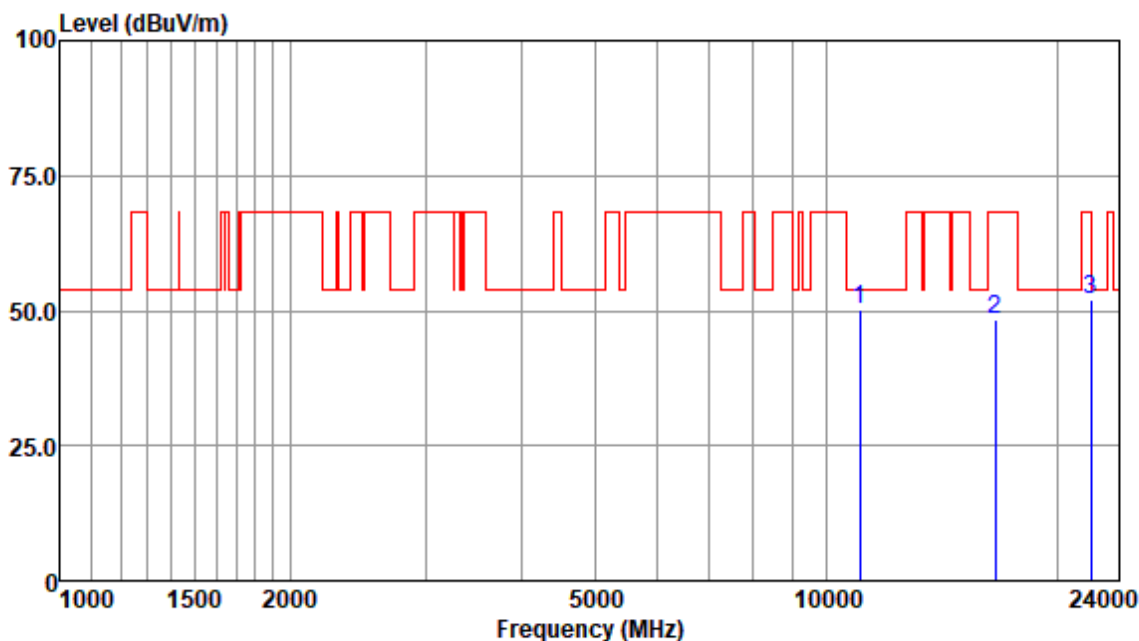


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11020.00	43.11	35.42	6.89	35.08	50.34	54.00	-3.66	Peak
16530.00	36.50	38.61	9.33	36.09	48.35	68.20	-19.85	Peak
22040.00	31.42	44.07	12.56	36.11	51.94	54.00	-2.06	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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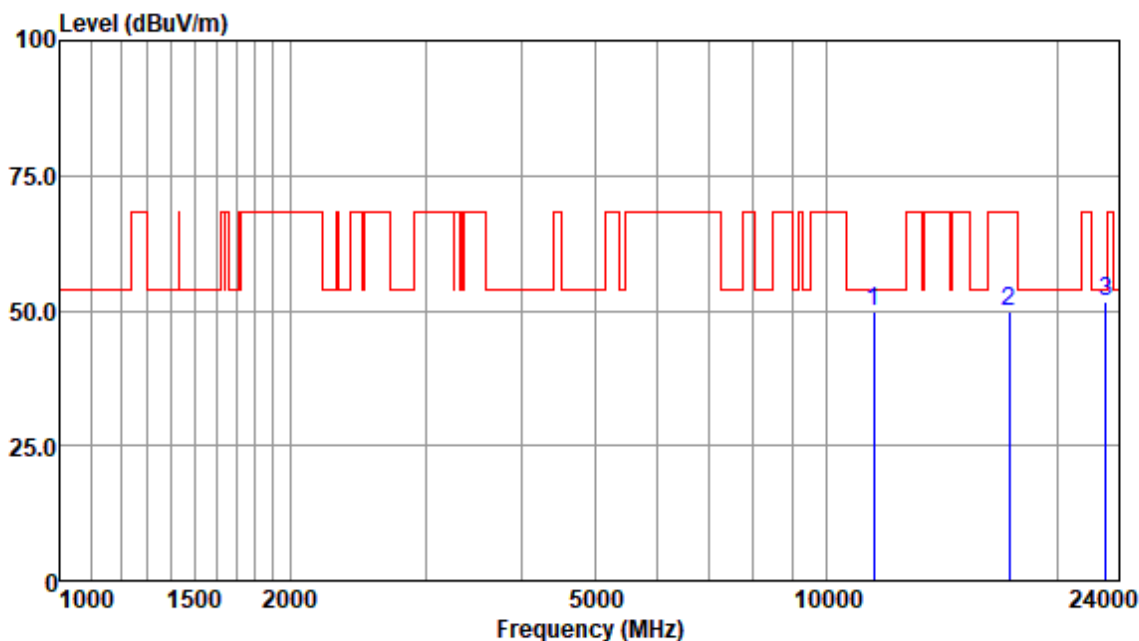
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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11510.00	42.42	35.78	7.40	35.95	49.65	54.00	-4.35	Peak
17265.00	35.09	40.60	10.19	36.14	49.74	68.20	-18.46	Peak
23020.00	30.15	44.55	13.05	36.16	51.59	54.00	-2.41	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



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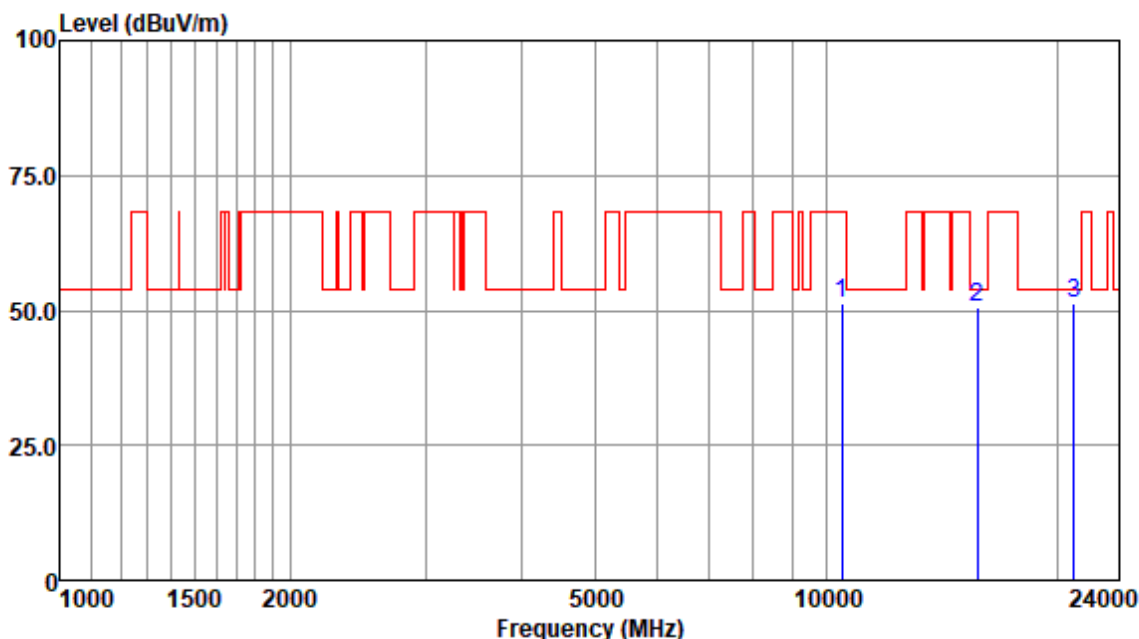
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10460.00	44.41	34.95	6.58	34.48	51.46	68.20	-16.74	Peak
15690.00	39.48	37.51	10.11	36.63	50.47	54.00	-3.53	Peak
20920.00	31.96	43.52	12.00	36.06	51.42	54.00	-2.58	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

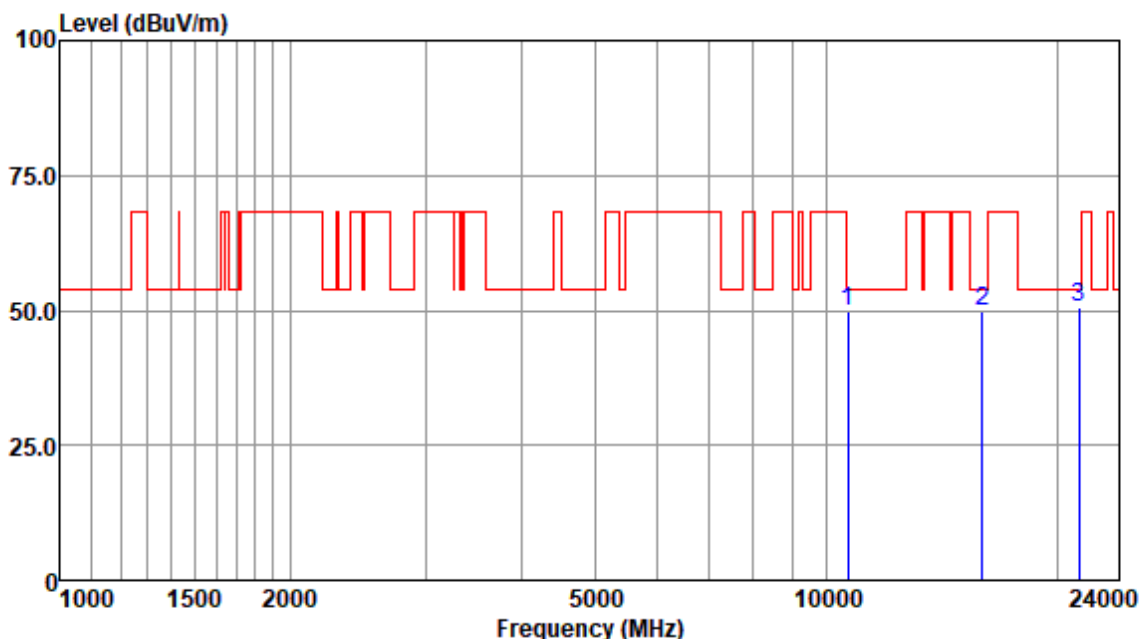


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10620.00	42.70	35.07	6.66	34.59	49.84	54.00	-4.16	Peak
15930.00	39.97	37.70	8.53	36.45	49.75	54.00	-4.25	Peak
21240.00	30.74	43.69	12.18	36.07	50.54	54.00	-3.46	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

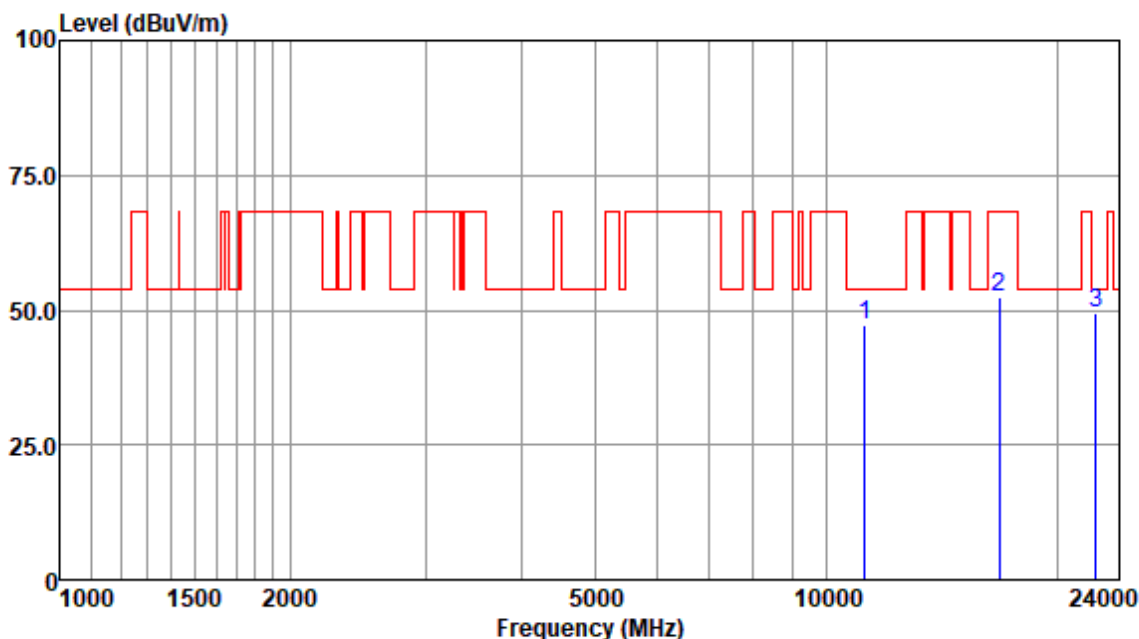


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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11180.00	39.99	35.56	7.04	35.33	47.26	54.00	-6.74	Peak
16770.00	39.74	39.15	9.59	36.03	52.45	68.20	-15.75	Peak
22360.00	28.44	44.24	12.73	36.13	49.28	54.00	-4.72	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

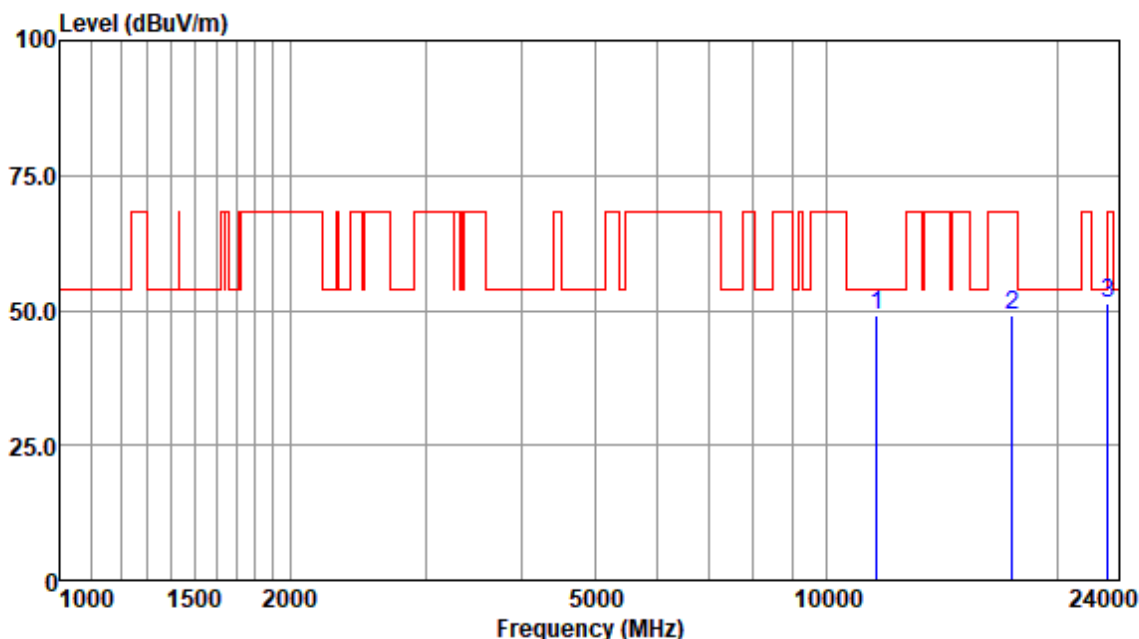


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11590.00	41.78	35.78	7.48	36.09	48.95	54.00	-5.05	Peak
17385.00	34.04	41.12	10.39	36.31	49.24	68.20	-18.96	Peak
23180.00	29.88	44.62	13.12	36.16	51.46	68.20	-16.74	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

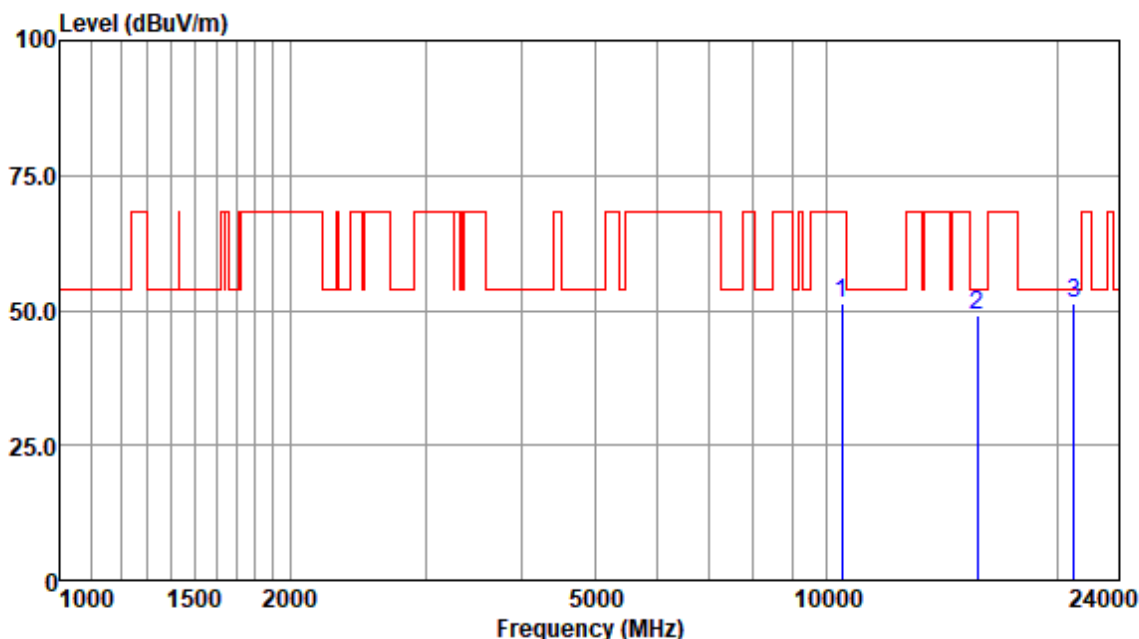


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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10460.00	44.41	34.95	6.58	34.48	51.46	68.20	-16.74	Peak
15690.00	38.25	37.51	10.11	36.63	49.24	54.00	-4.76	Peak
20920.00	32.00	43.52	12.00	36.06	51.46	54.00	-2.54	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

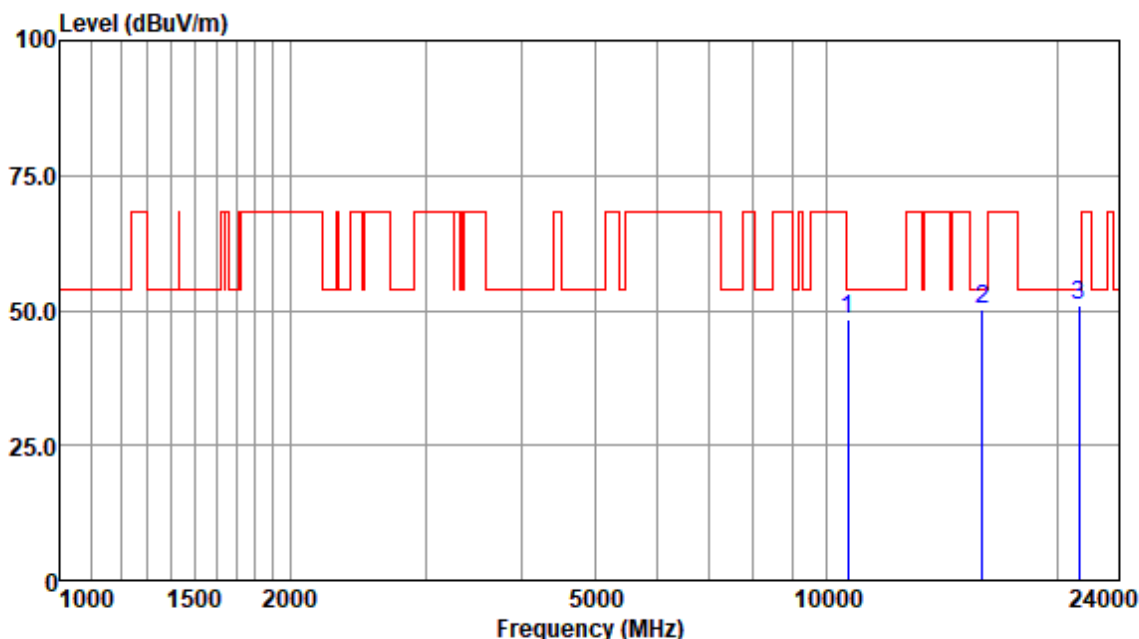


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10620.00	41.11	35.07	6.66	34.59	48.25	54.00	-5.75	Peak
15930.00	40.38	37.70	8.53	36.45	50.16	54.00	-3.84	Peak
21240.00	31.05	43.69	12.18	36.07	50.85	54.00	-3.15	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

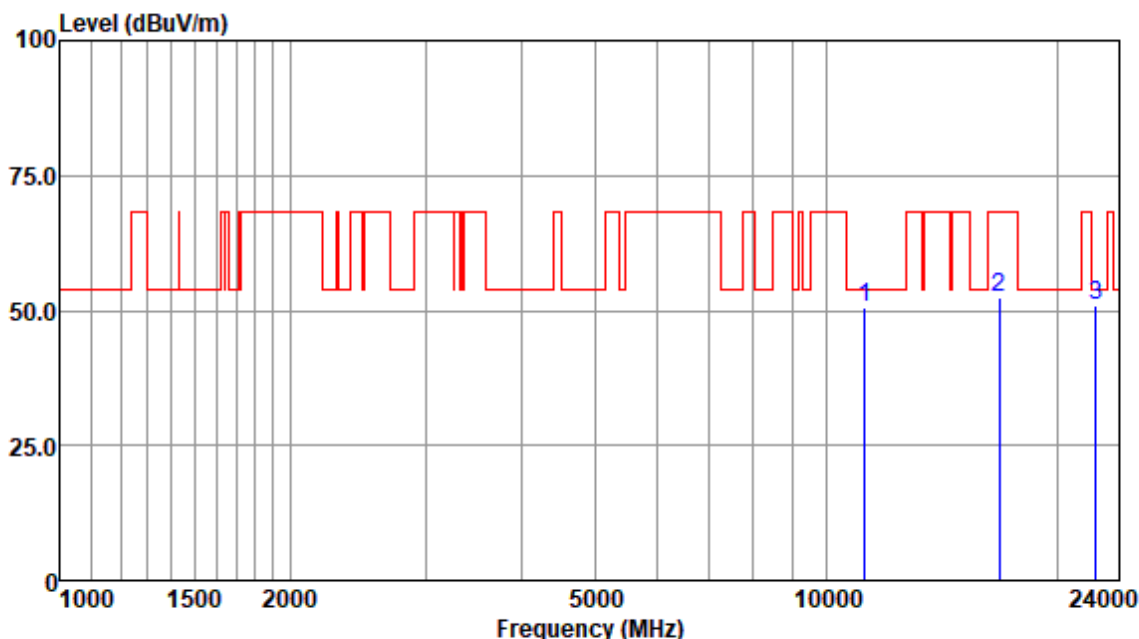


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11180.00	43.19	35.56	7.04	35.33	50.46	54.00	-3.54	Peak
16770.00	39.63	39.15	9.59	36.03	52.34	68.20	-15.86	Peak
22360.00	30.13	44.24	12.73	36.13	50.97	54.00	-3.03	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



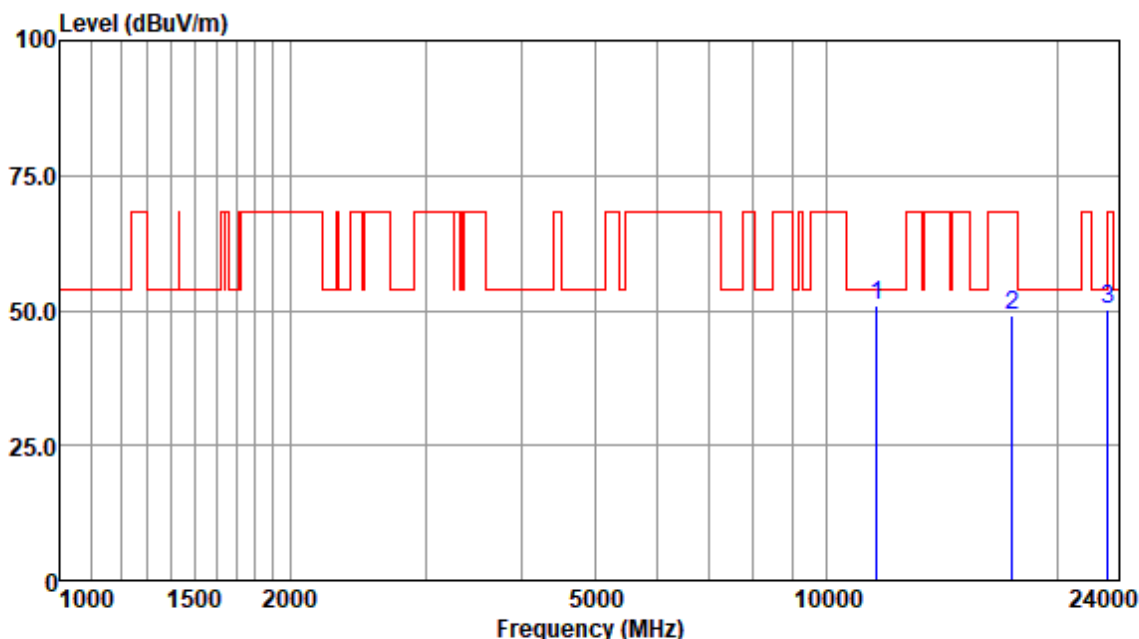
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11590.00	43.68	35.78	7.48	36.09	50.85	54.00	-3.15	Peak
17385.00	34.05	41.12	10.39	36.31	49.25	68.20	-18.95	Peak
23180.00	28.66	44.62	13.12	36.16	50.24	68.20	-17.96	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

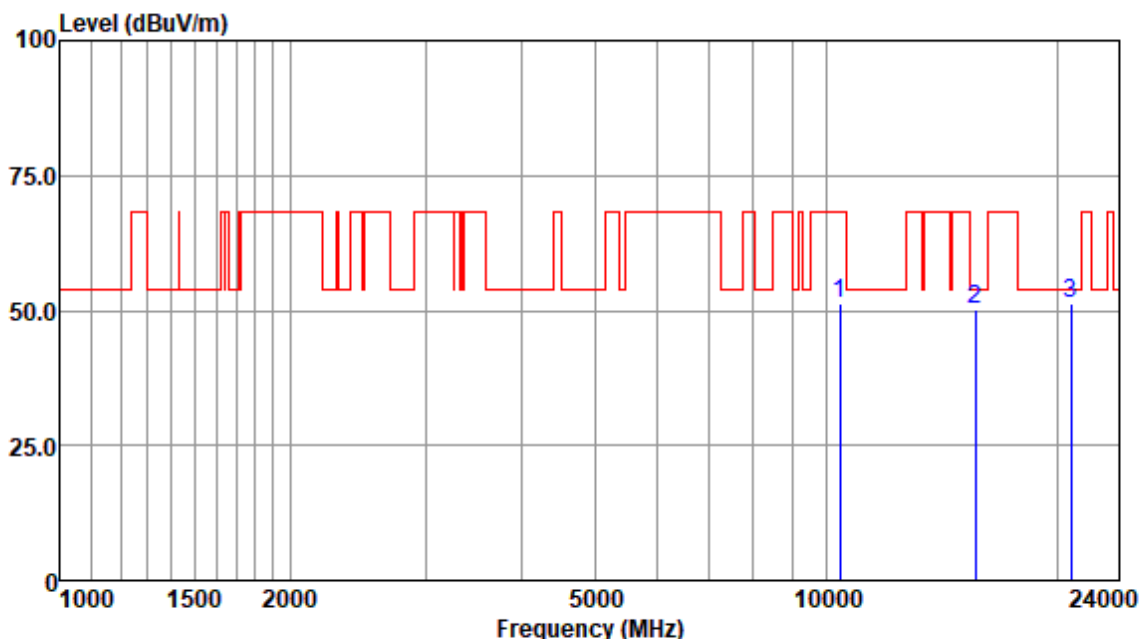


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10380.00	44.40	34.93	6.53	34.40	51.46	68.20	-16.74	Peak
15570.00	39.39	37.45	10.03	36.73	50.14	54.00	-3.86	Peak
20760.00	32.21	43.41	11.90	36.05	51.47	54.00	-2.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



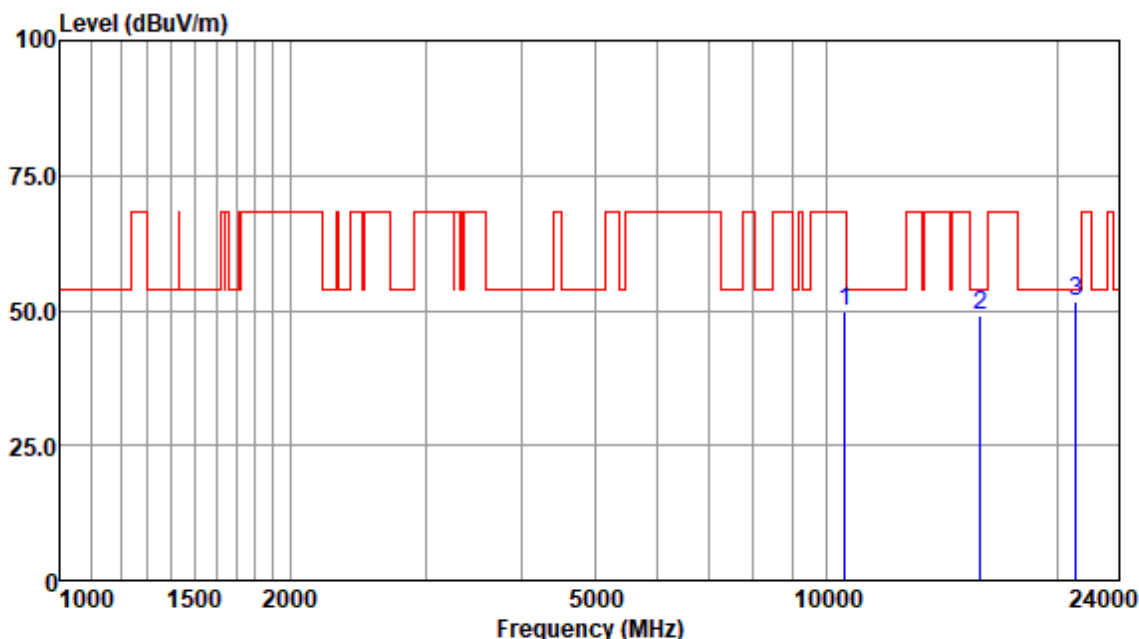
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10540.00	42.59	35.01	6.62	34.54	49.68	68.20	-18.52	Peak
15810.00	38.68	37.61	9.16	36.51	48.94	54.00	-5.06	Peak
21080.00	32.05	43.58	12.07	36.06	51.64	54.00	-2.36	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

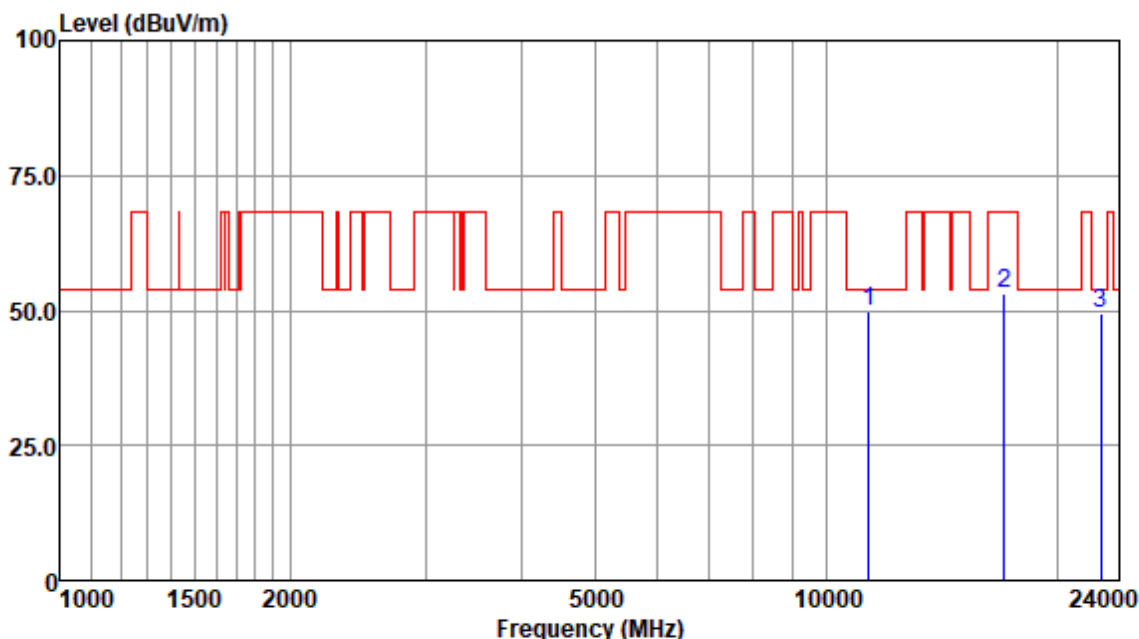


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11340.00	42.37	35.67	7.20	35.60	49.64	54.00	-4.36	Peak
17010.00	39.39	39.96	9.92	36.03	53.24	68.20	-14.96	Peak
22680.00	28.33	44.38	12.87	36.14	49.44	54.00	-4.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

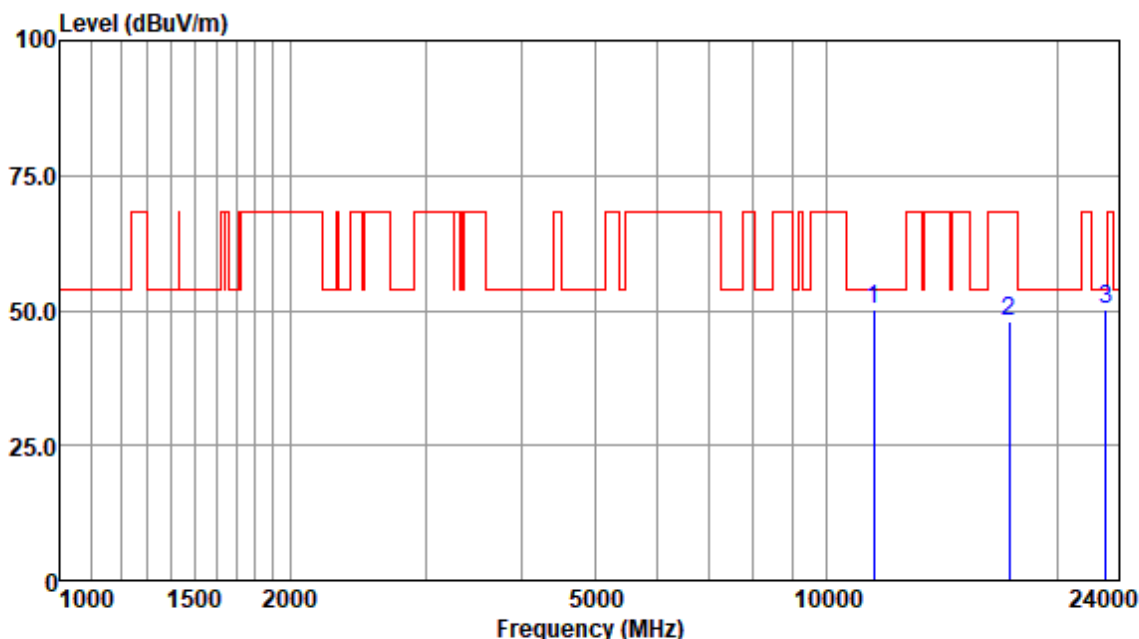


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11510.00	43.02	35.78	7.40	35.95	50.25	54.00	-3.75	Peak
17265.00	33.26	40.60	10.19	36.14	47.91	68.20	-20.29	Peak
23020.00	28.90	44.55	13.05	36.16	50.34	54.00	-3.66	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

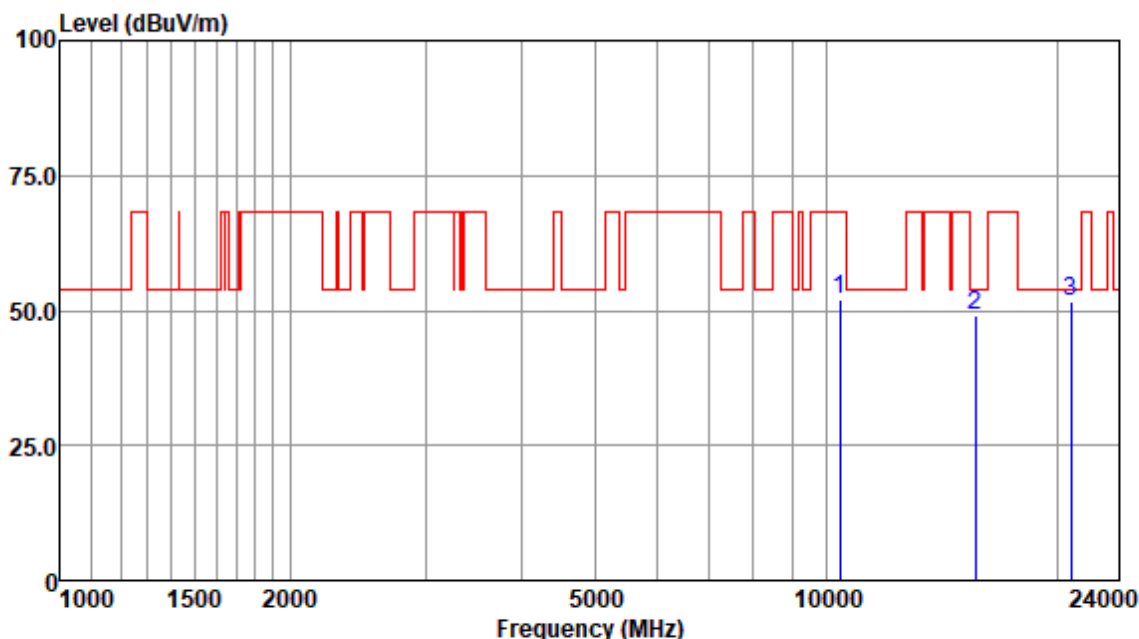


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10380.00	45.08	34.93	6.53	34.40	52.14	68.20	-16.06	Peak
15570.00	38.51	37.45	10.03	36.73	49.26	54.00	-4.74	Peak
20760.00	32.51	43.41	11.90	36.05	51.77	54.00	-2.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

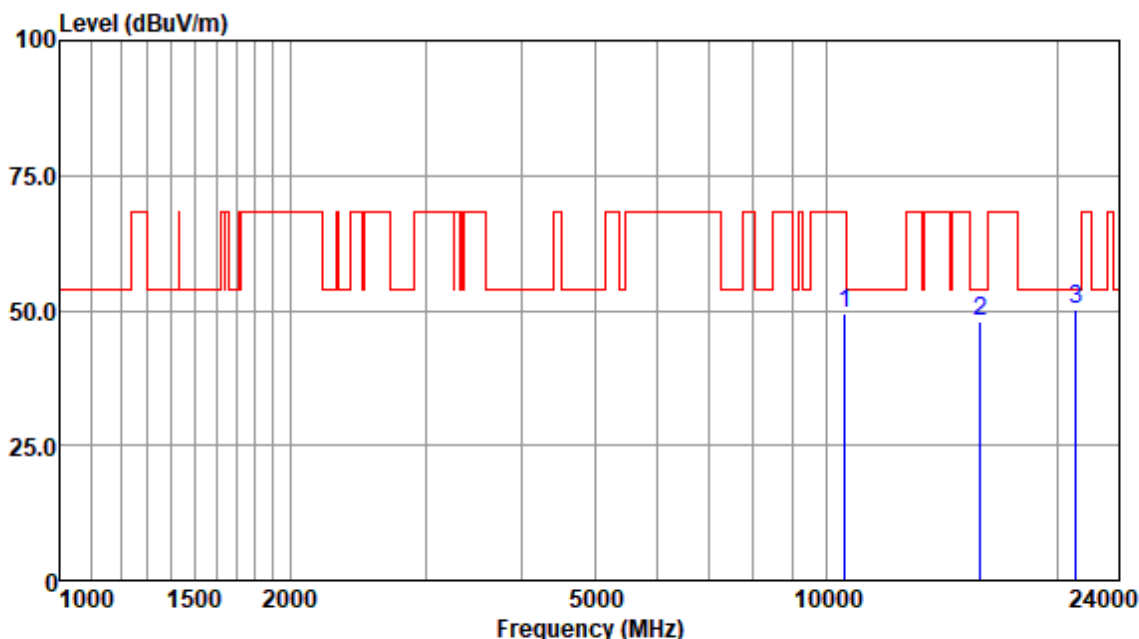


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10540.00	42.28	35.01	6.62	34.54	49.37	68.20	-18.83	Peak
15810.00	37.89	37.61	9.16	36.51	48.15	54.00	-5.85	Peak
21080.00	30.74	43.58	12.07	36.06	50.33	54.00	-3.67	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

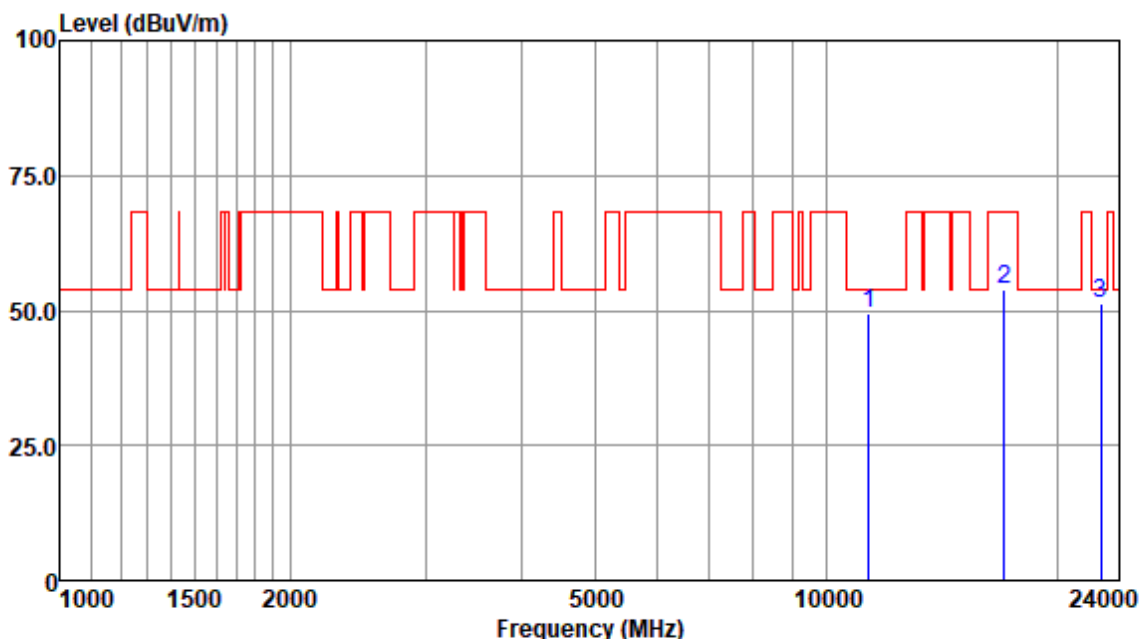


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11340.00	42.29	35.67	7.20	35.60	49.56	54.00	-4.44	Peak
17010.00	40.07	39.96	9.92	36.03	53.92	68.20	-14.28	Peak
22680.00	30.30	44.38	12.87	36.14	51.41	54.00	-2.59	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

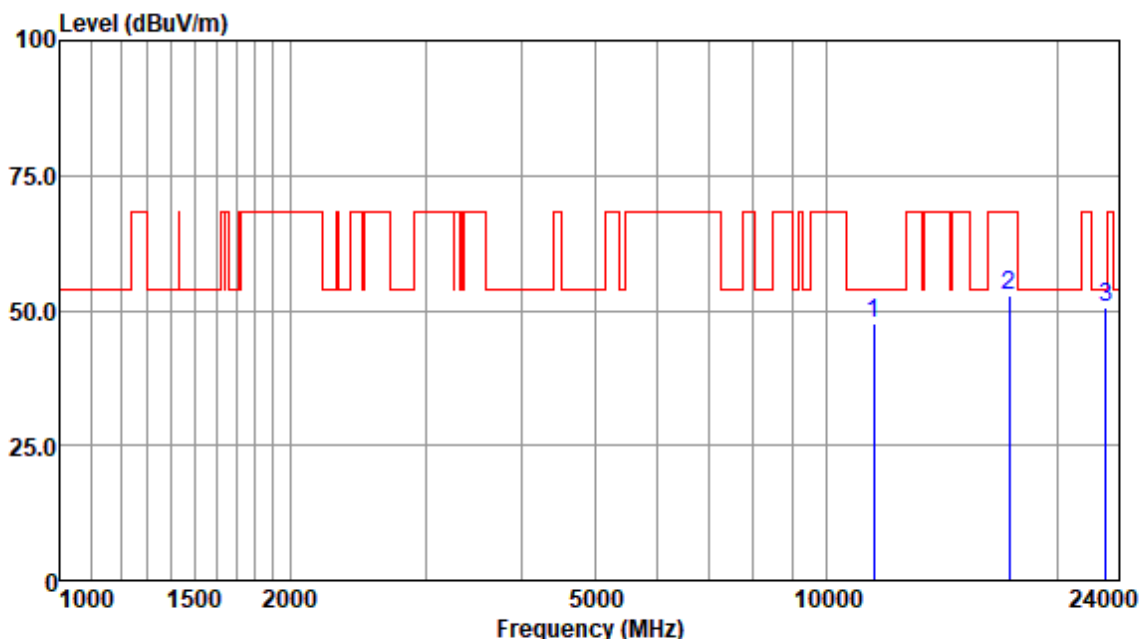


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11510.00	40.26	35.78	7.40	35.95	47.49	54.00	-6.51	Peak
17265.00	38.23	40.60	10.19	36.14	52.88	68.20	-15.32	Peak
23020.00	29.13	44.55	13.05	36.16	50.57	54.00	-3.43	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

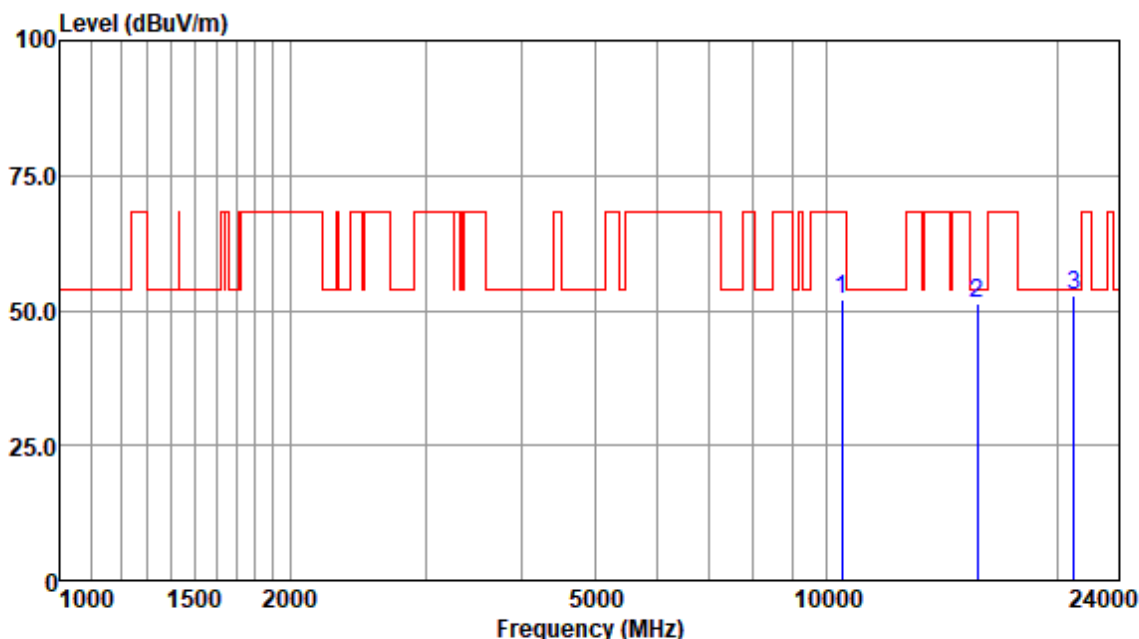


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10460.00	45.09	34.95	6.58	34.48	52.14	68.20	-16.06	Peak
15690.00	40.30	37.51	10.11	36.63	51.29	54.00	-2.71	Peak
20920.00	33.20	43.52	12.00	36.06	52.66	54.00	-1.34	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

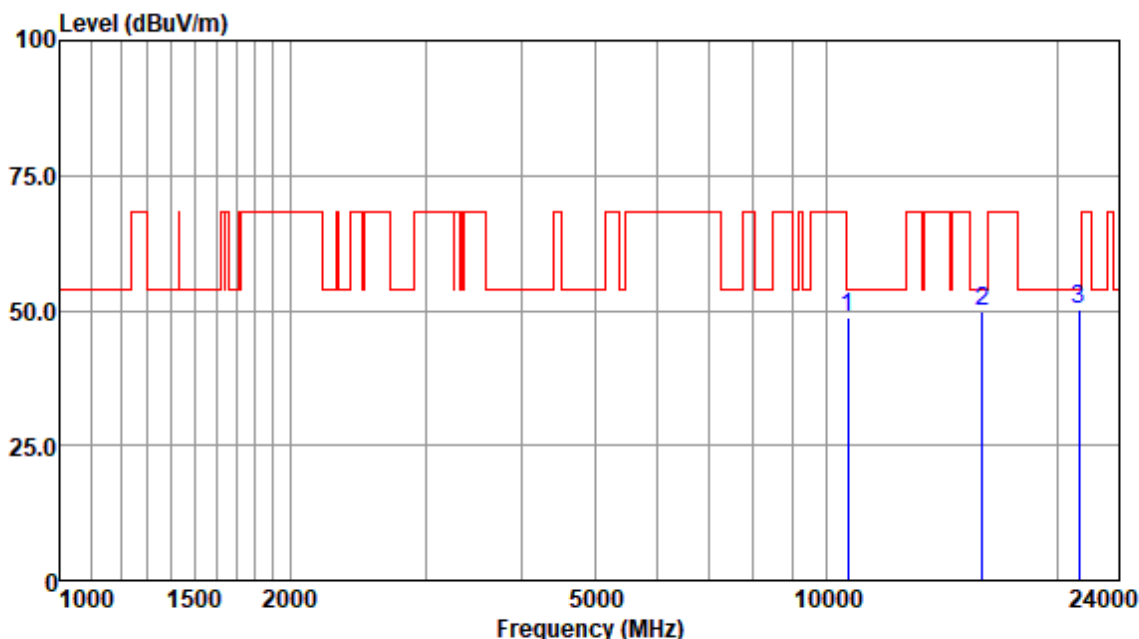


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10620.00	41.60	35.07	6.66	34.59	48.74	54.00	-5.26	Peak
15930.00	40.03	37.70	8.53	36.45	49.81	54.00	-4.19	Peak
21240.00	30.52	43.69	12.18	36.07	50.32	54.00	-3.68	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

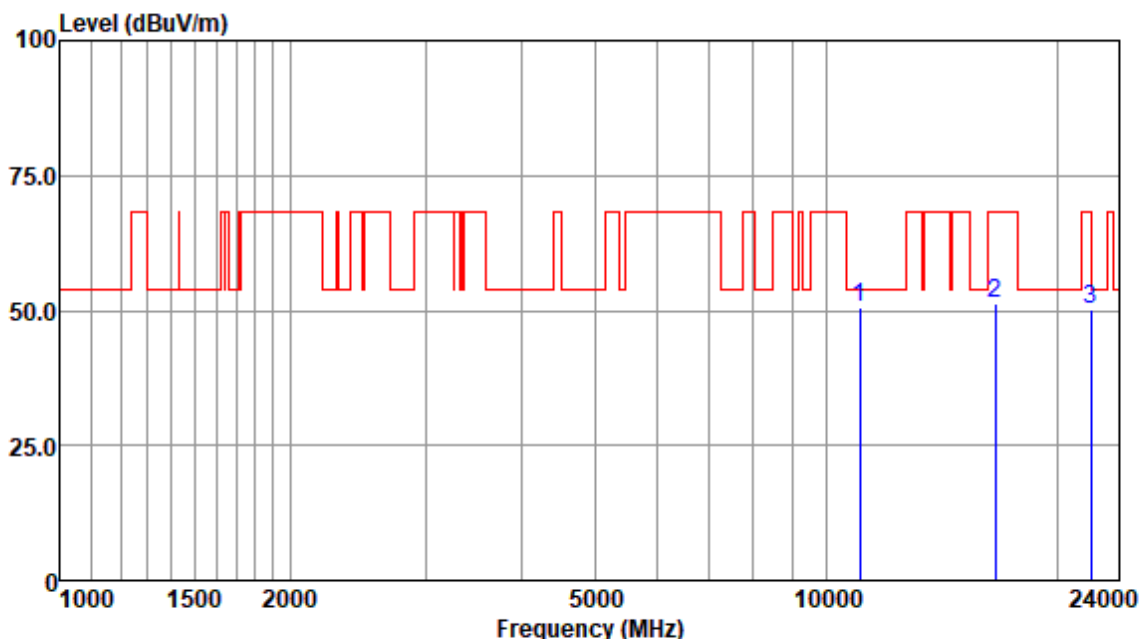


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11020.00	43.41	35.42	6.89	35.08	50.64	54.00	-3.36	Peak
16530.00	39.26	38.61	9.33	36.09	51.11	68.20	-17.09	Peak
22040.00	29.69	44.07	12.56	36.11	50.21	54.00	-3.79	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

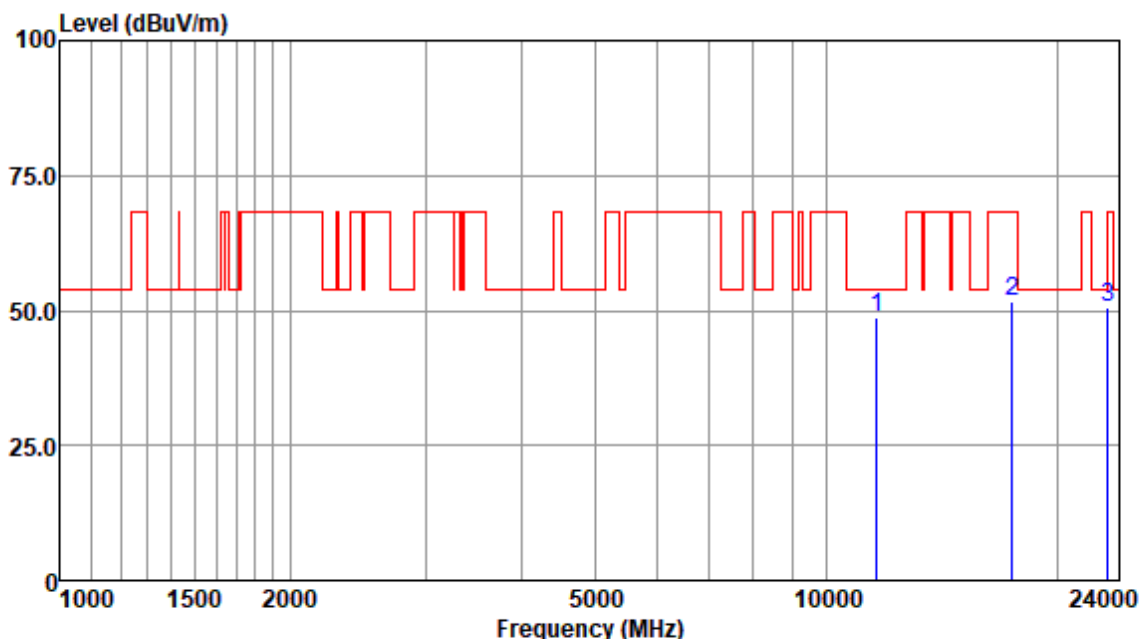


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11590.00	41.38	35.78	7.48	36.09	48.55	54.00	-5.45	Peak
17385.00	36.41	41.12	10.39	36.31	51.61	68.20	-16.59	Peak
23180.00	28.91	44.62	13.12	36.16	50.49	68.20	-17.71	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

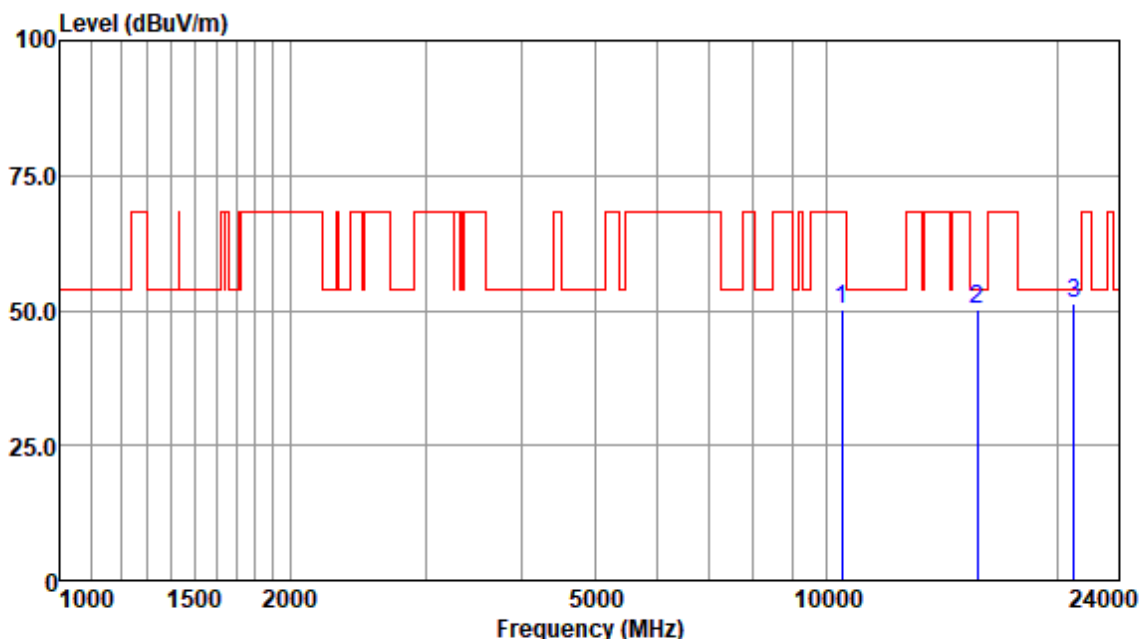


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10460.00	43.09	34.95	6.58	34.48	50.14	68.20	-18.06	Peak
15690.00	39.18	37.51	10.11	36.63	50.17	54.00	-3.83	Peak
20920.00	31.80	43.52	12.00	36.06	51.26	54.00	-2.74	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

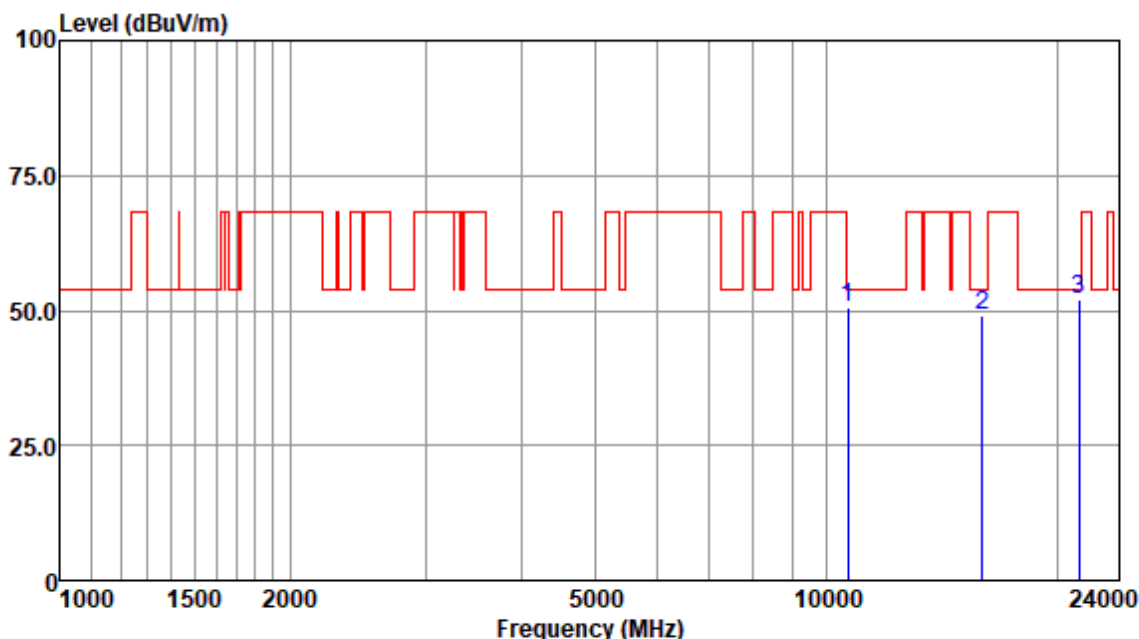


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10620.00	43.51	35.07	6.66	34.59	50.65	54.00	-3.35	Peak
15930.00	39.47	37.70	8.53	36.45	49.25	54.00	-4.75	Peak
21240.00	32.11	43.69	12.18	36.07	51.91	54.00	-2.09	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

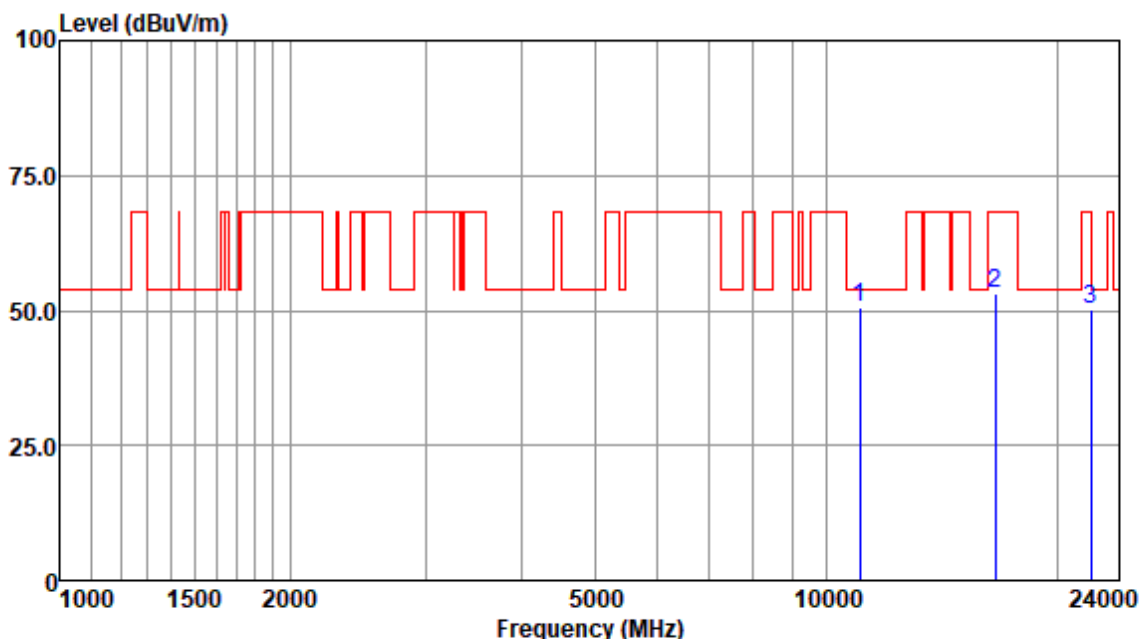


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11020.00	43.38	35.42	6.89	35.08	50.61	54.00	-3.39	Peak
16530.00	41.39	38.61	9.33	36.09	53.24	68.20	-14.96	Peak
22040.00	29.72	44.07	12.56	36.11	50.24	54.00	-3.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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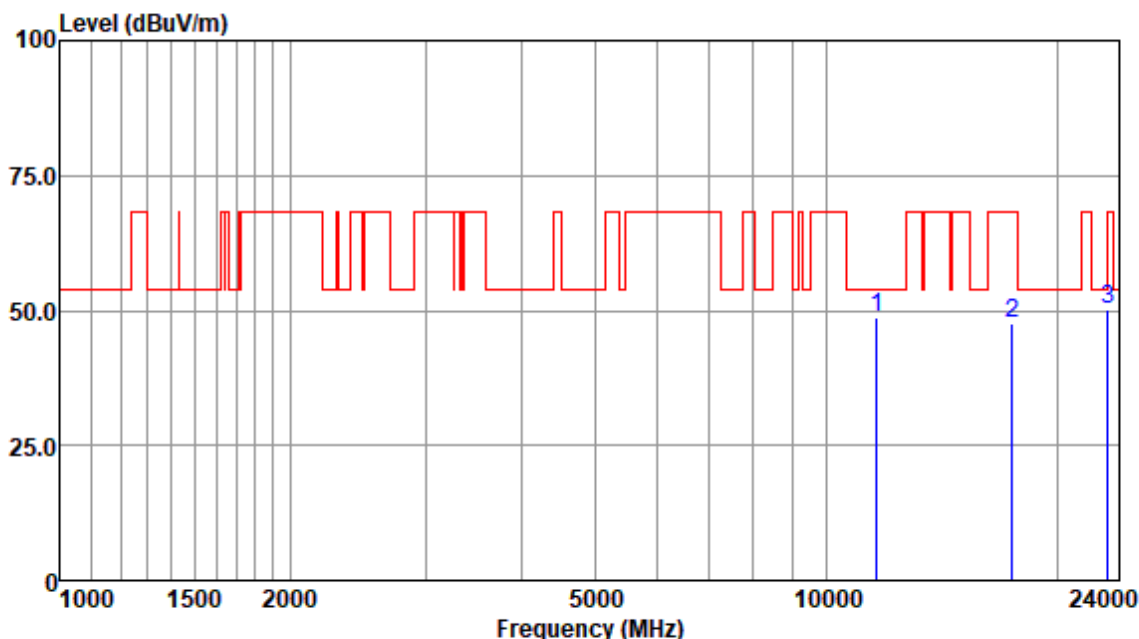
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11590.00	41.55	35.78	7.48	36.09	48.72	54.00	-5.28	Peak
17385.00	32.49	41.12	10.39	36.31	47.69	68.20	-20.51	Peak
23180.00	28.57	44.62	13.12	36.16	50.15	68.20	-18.05	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

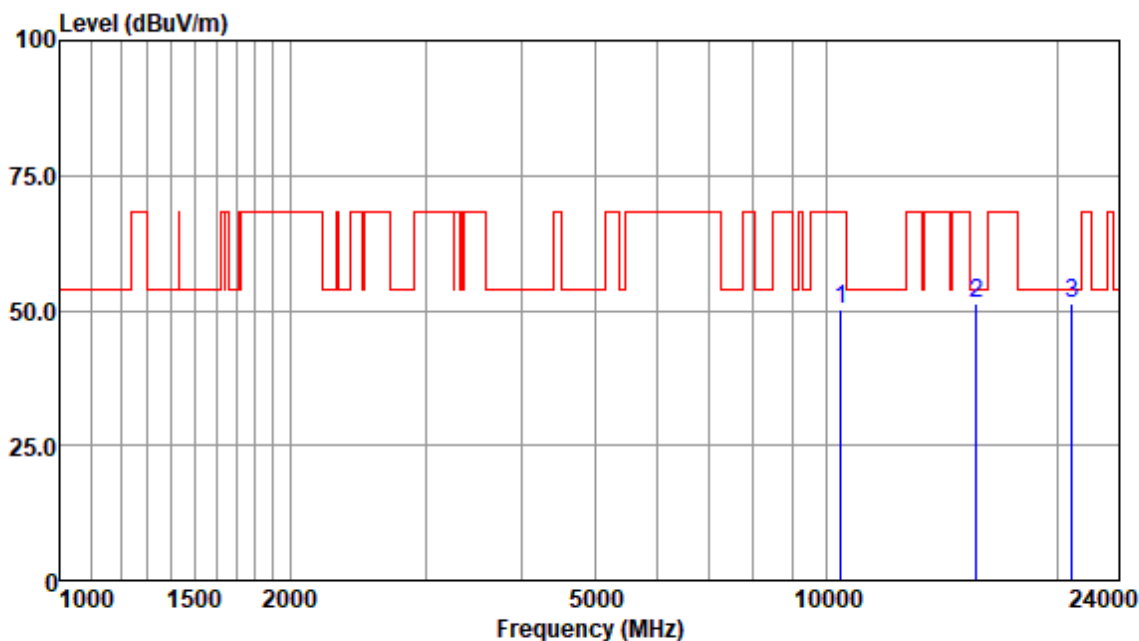


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10420.00	43.20	34.92	6.55	34.43	50.24	68.20	-17.96	Peak
15630.00	40.41	37.48	10.07	36.68	51.28	54.00	-2.72	Peak
20840.00	32.07	43.48	11.97	36.05	51.47	54.00	-2.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

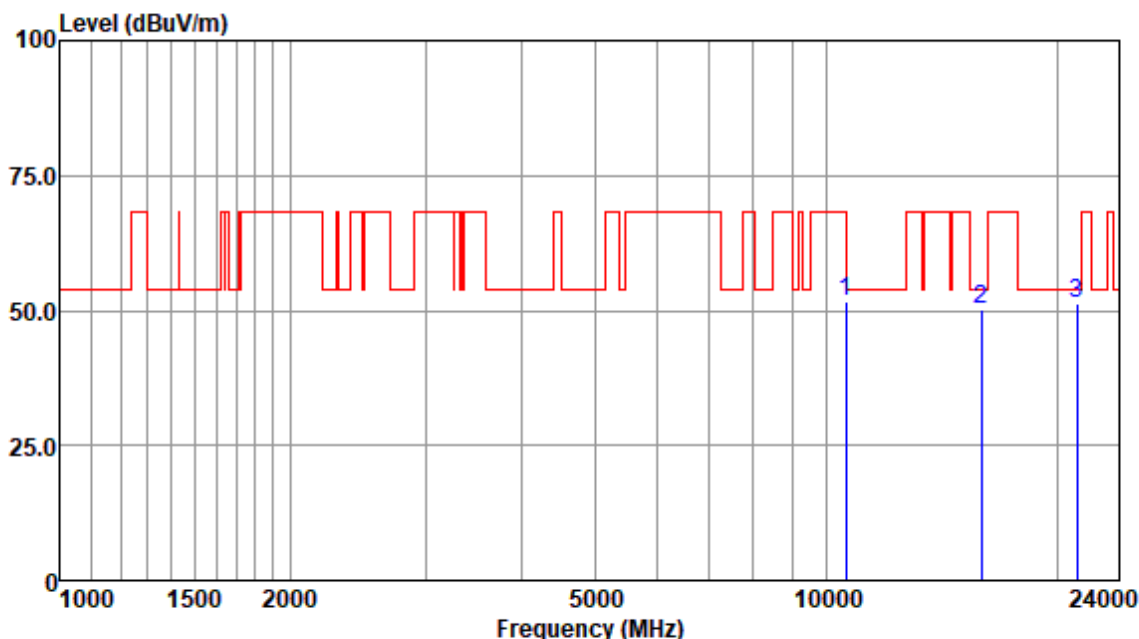


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10580.00	44.42	35.04	6.64	34.56	51.54	68.20	-16.66	Peak
15780.00	40.20	37.65	8.85	36.48	50.22	54.00	-3.78	Peak
21160.00	31.71	43.62	12.11	36.07	51.37	54.00	-2.63	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



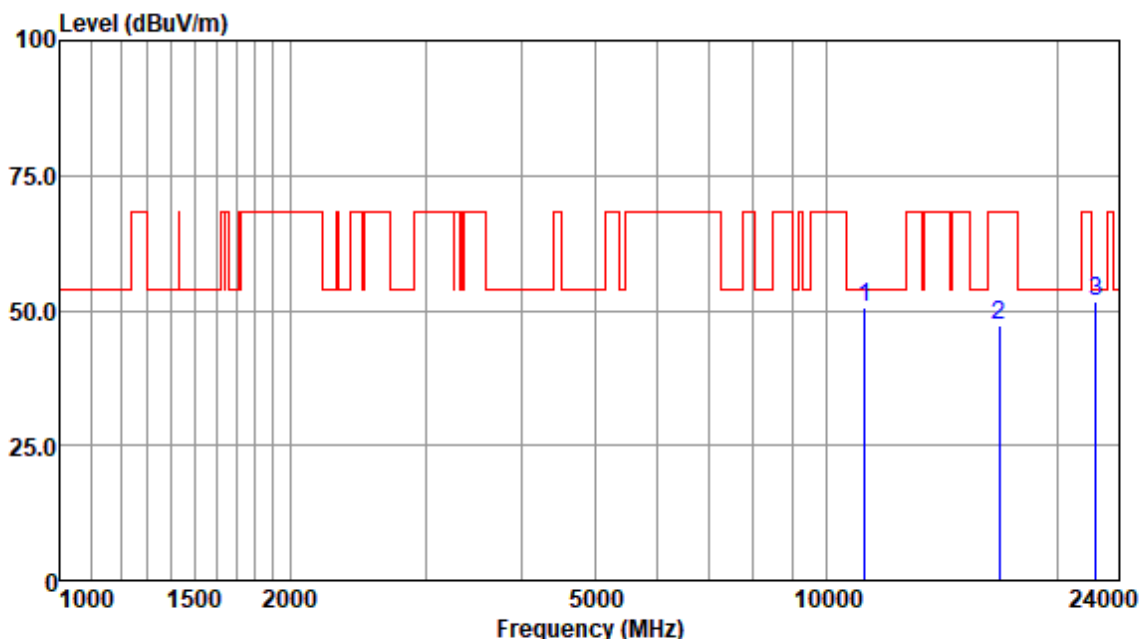
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11180.00	43.37	35.56	7.04	35.33	50.64	54.00	-3.36	Peak
16770.00	34.58	39.15	9.59	36.03	47.29	68.20	-20.91	Peak
22360.00	30.90	44.24	12.73	36.13	51.74	54.00	-2.26	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

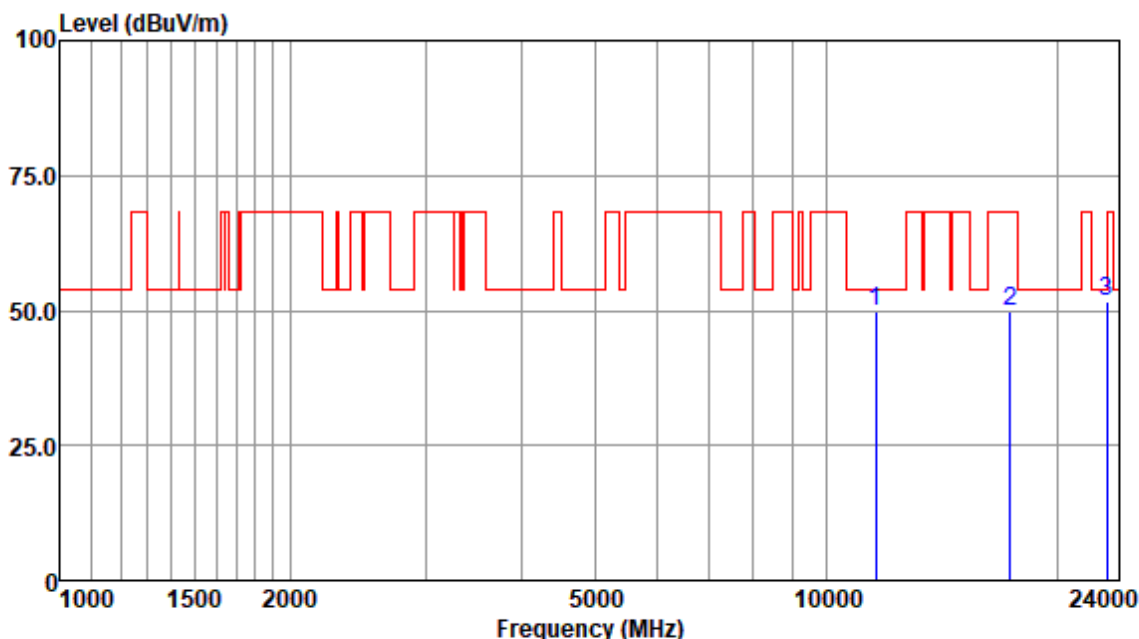


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11550.00	42.64	35.78	7.44	36.02	49.84	54.00	-4.16	Peak
17325.00	35.04	40.77	10.25	36.20	49.86	68.20	-18.34	Peak
23100.00	30.07	44.59	13.08	36.16	51.58	54.00	-2.42	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

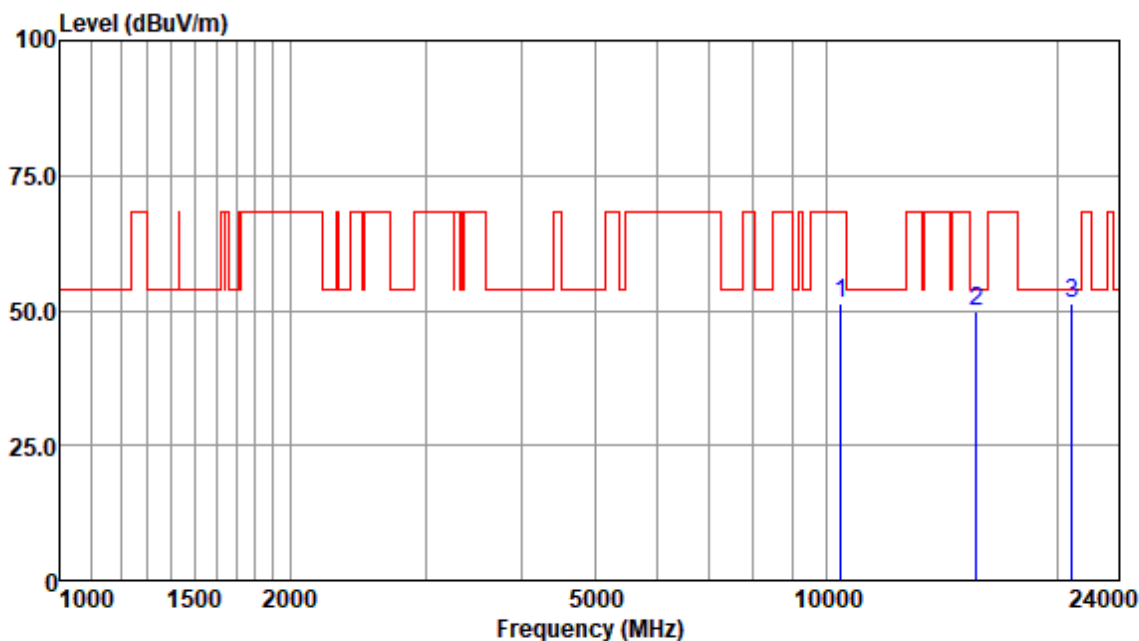


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10420.00	44.22	34.92	6.55	34.43	51.26	68.20	-16.94	Peak
15630.00	39.01	37.48	10.07	36.68	49.88	54.00	-4.12	Peak
20840.00	31.84	43.48	11.97	36.05	51.24	54.00	-2.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

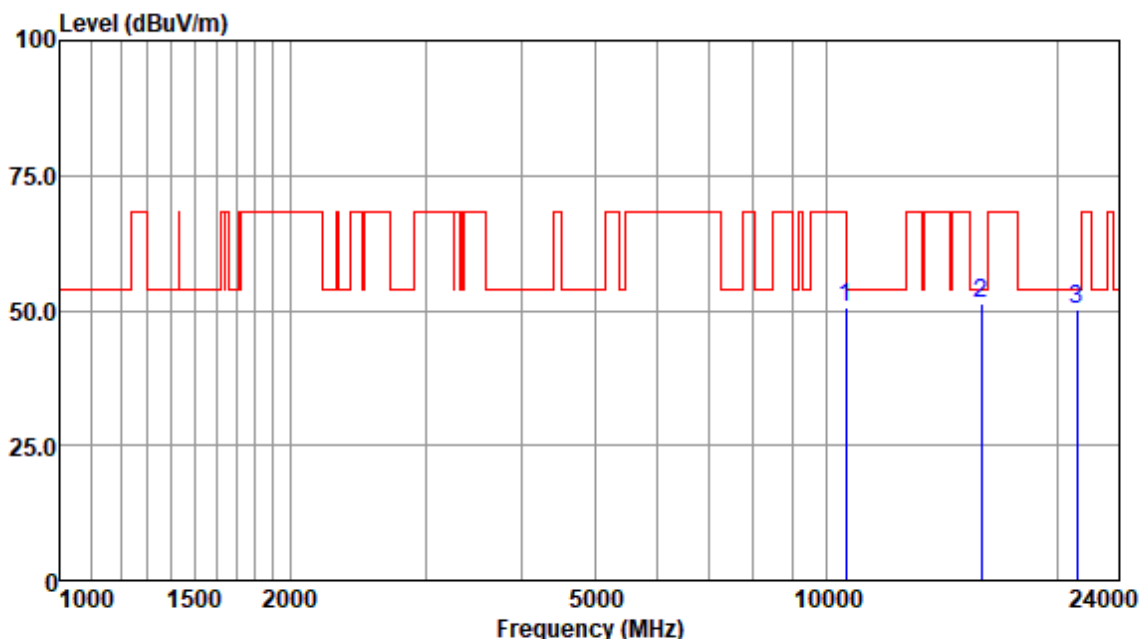


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10580.00	43.52	35.04	6.64	34.56	50.64	68.20	-17.56	Peak
15870.00	41.19	37.65	8.85	36.48	51.21	54.00	-2.79	Peak
21160.00	30.58	43.62	12.11	36.07	50.24	54.00	-3.76	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

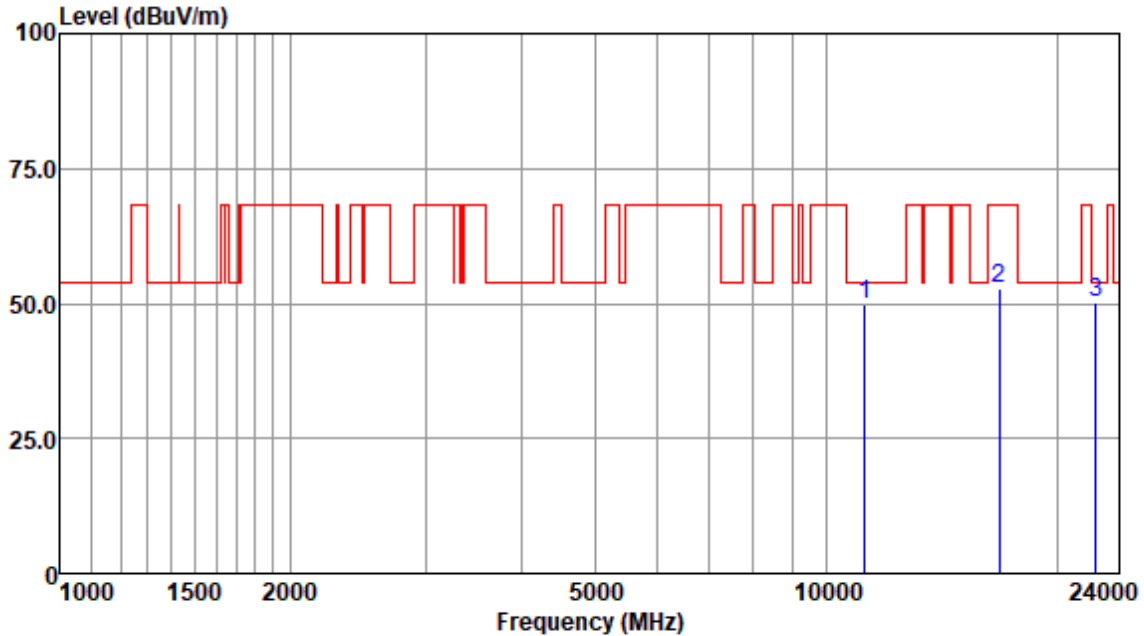


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11180.00	42.37	35.56	7.04	35.33	49.64	54.00	-4.36	Peak
16770.00	40.14	39.15	9.59	36.03	52.85	68.20	-15.35	Peak
22360.00	29.39	44.24	12.73	36.13	50.23	54.00	-3.77	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

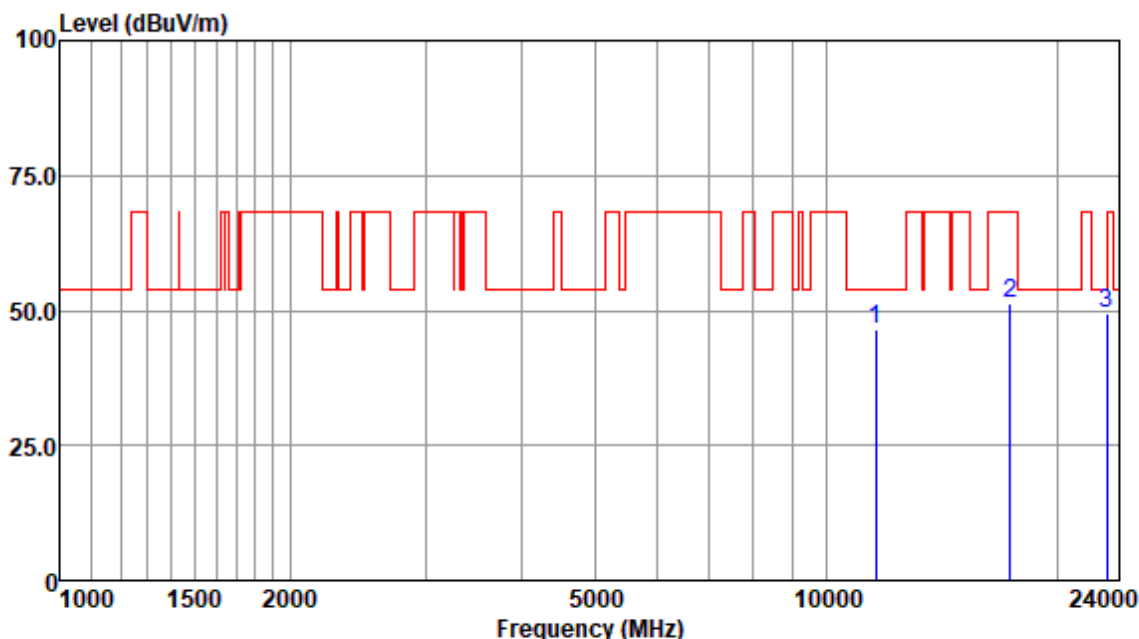


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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11550.00	39.36	35.78	7.44	36.02	46.56	54.00	-7.44	Peak
17325.00	36.32	40.77	10.25	36.20	51.14	68.20	-17.06	Peak
23100.00	28.07	44.59	13.08	36.16	49.58	54.00	-4.42	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

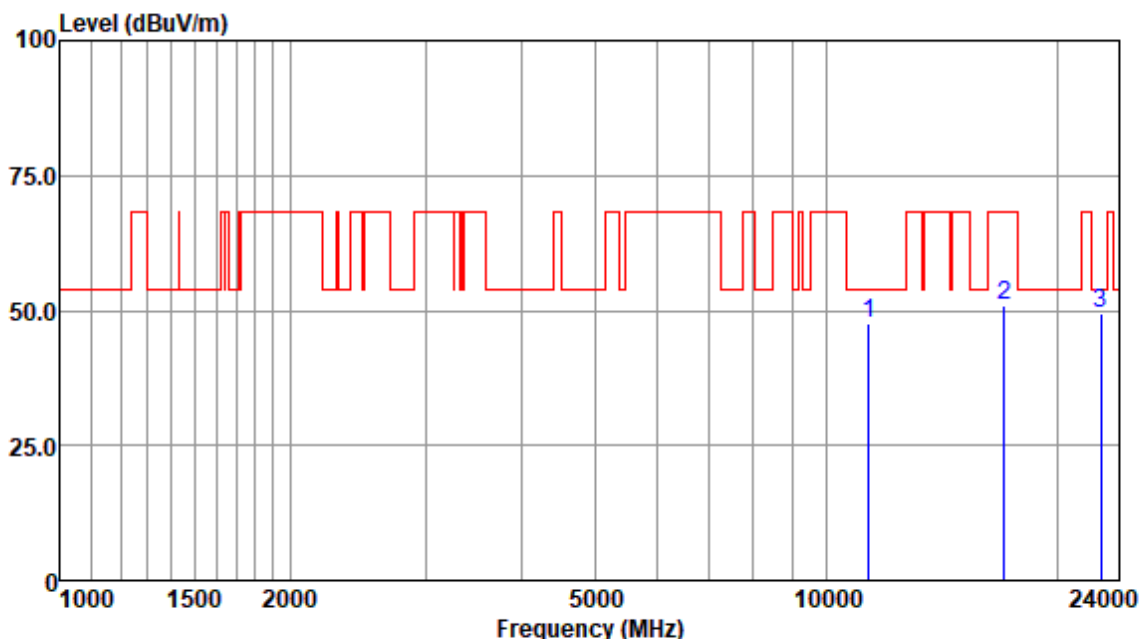


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11340.00	40.35	35.67	7.20	35.60	47.62	54.00	-6.38	Peak
17010.00	37.21	39.96	9.92	36.03	51.06	68.20	-17.14	Peak
22680.00	28.26	44.38	12.87	36.14	49.37	54.00	-4.63	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

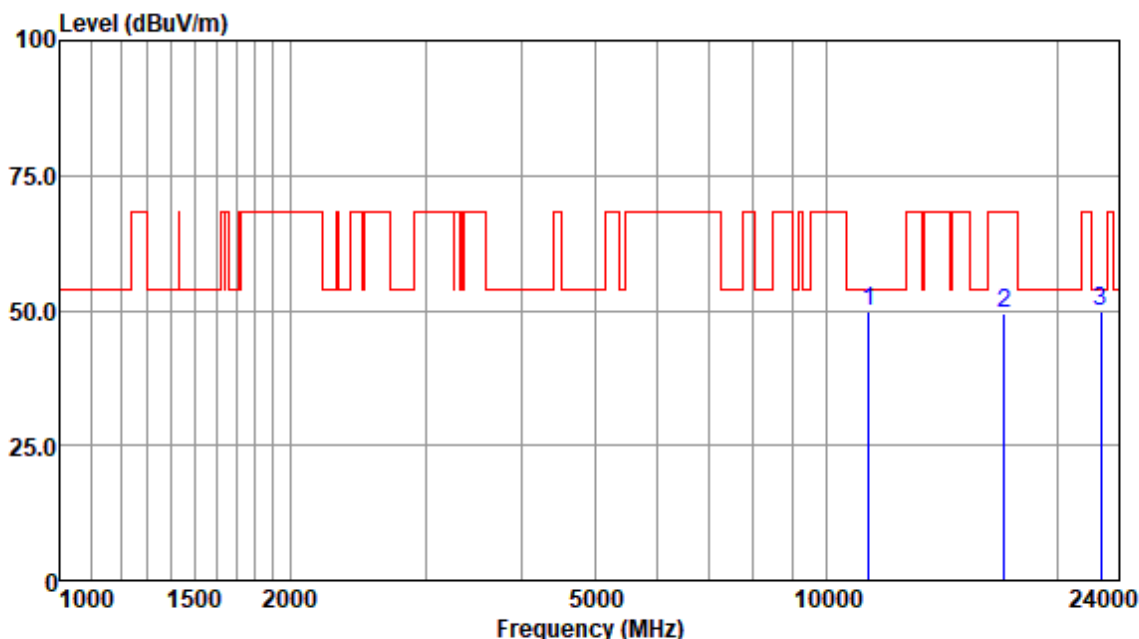


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11340.00	42.39	35.67	7.20	35.60	49.66	54.00	-4.34	Peak
17010.00	35.62	39.96	9.92	36.03	49.47	68.20	-18.73	Peak
22680.00	28.87	44.38	12.87	36.14	49.98	54.00	-4.02	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

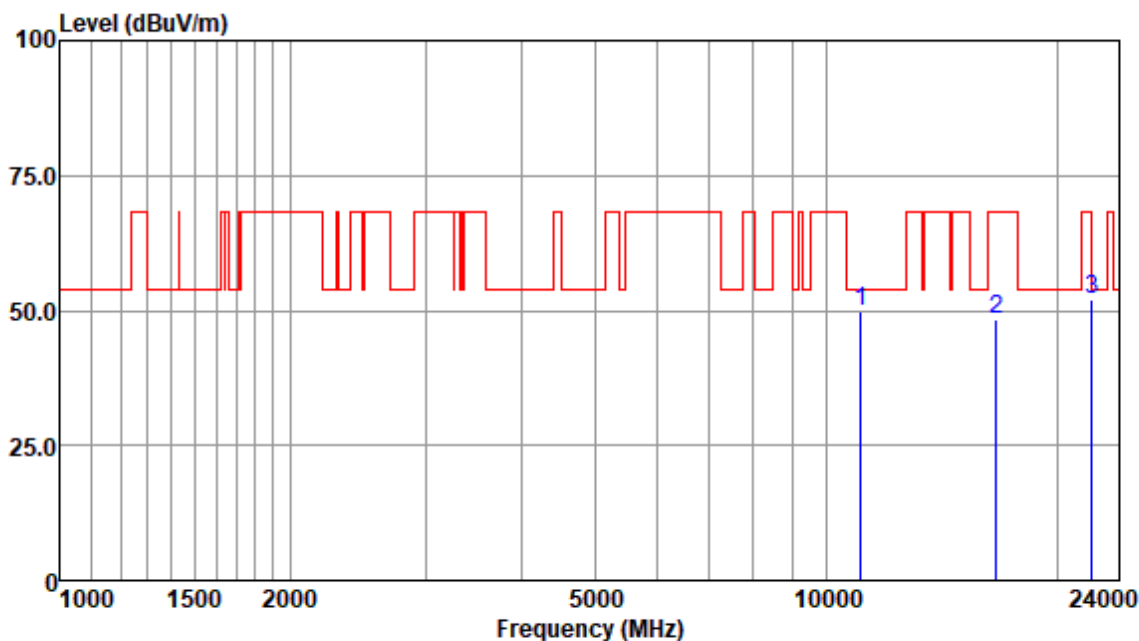


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11060.00	42.75	35.45	6.90	35.12	49.98	54.00	-4.02	Peak
16590.00	36.19	38.74	9.39	36.07	48.25	68.20	-19.95	Peak
22120.00	31.58	44.10	12.59	36.11	52.16	54.00	-1.84	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

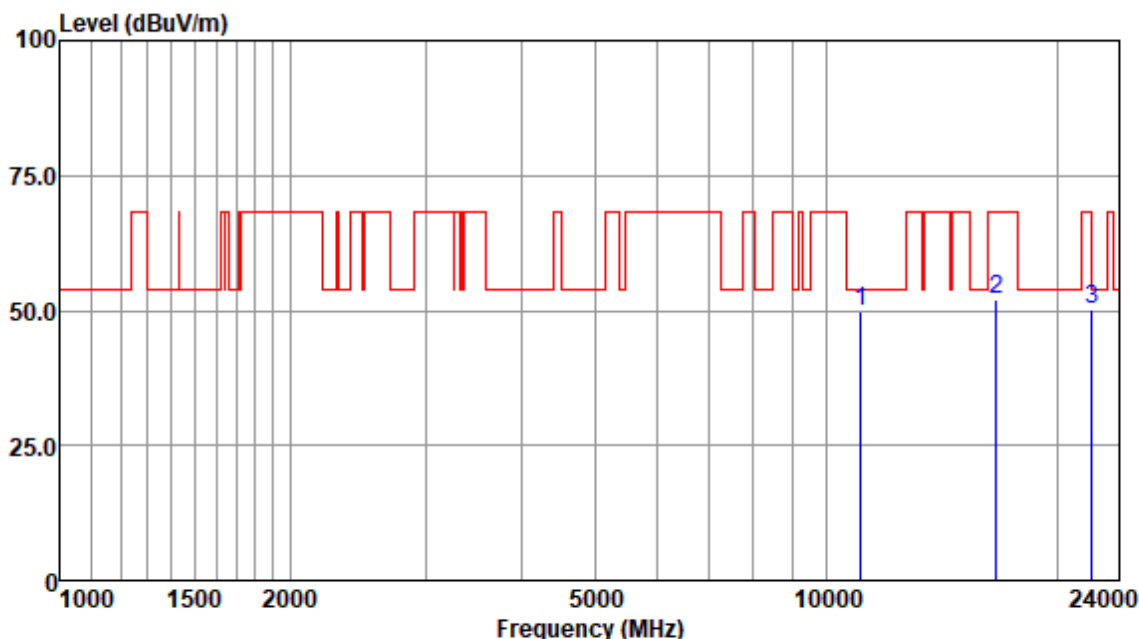


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11060.00	42.44	35.45	6.90	35.12	49.67	54.00	-4.33	Peak
16590.00	39.82	38.74	9.39	36.07	51.88	68.20	-16.32	Peak
22120.00	29.63	44.10	12.59	36.11	50.21	54.00	-3.79	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

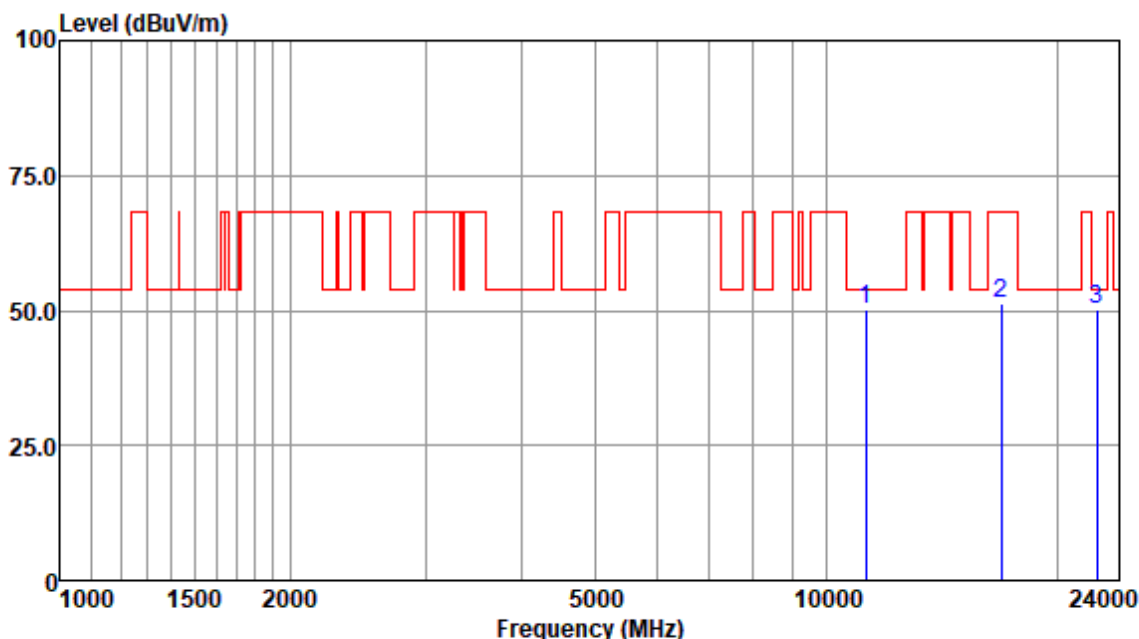


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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11220.00	42.94	35.59	7.08	35.40	50.21	54.00	-3.79	Peak
16830.00	38.33	39.31	9.66	36.03	51.27	68.20	-16.93	Peak
22440.00	29.35	44.28	12.77	36.13	50.27	54.00	-3.73	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

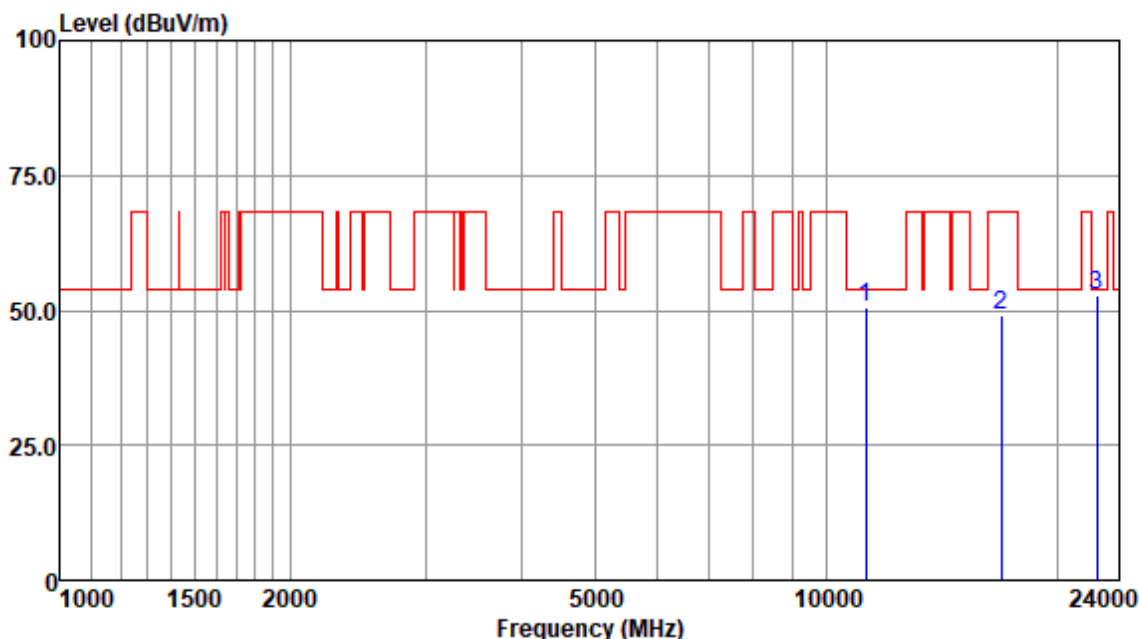


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11220.00	43.20	35.59	7.08	35.40	50.47	54.00	-3.53	Peak
16830.00	36.32	39.31	9.66	36.03	49.26	68.20	-18.94	Peak
22440.00	32.02	44.28	12.77	36.13	52.94	54.00	-1.06	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



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7.9 Radiated Emissions which fall in the restricted bands

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
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: 26.1 °C Humidity: 55.0 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and



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		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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

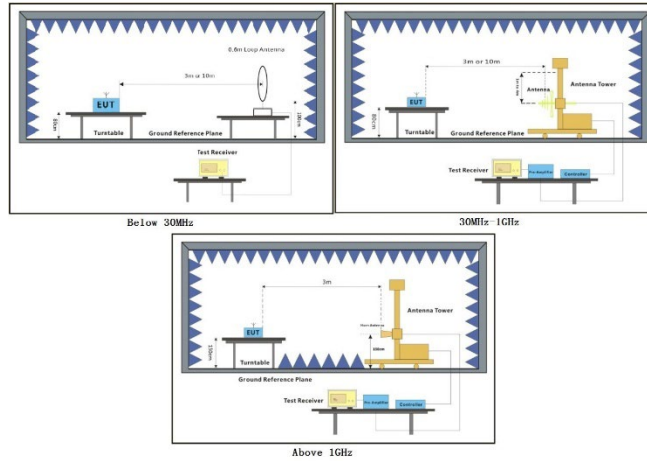


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7.9.3 Test Setup Diagram



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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: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

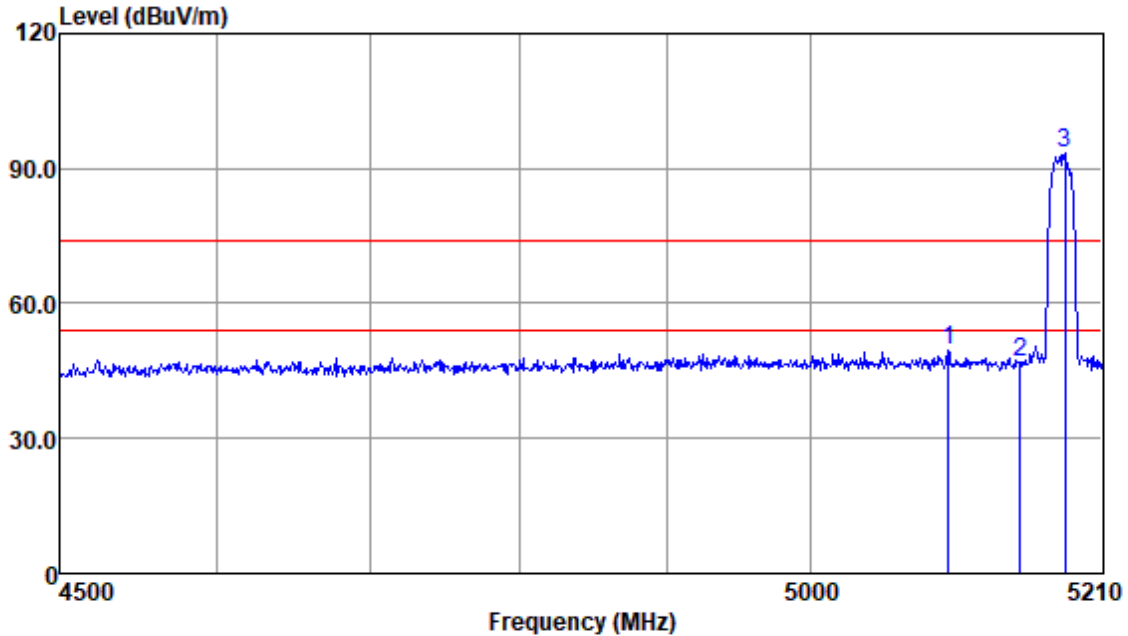


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Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5098.25	44.80	34.14	7.47	36.87	49.54	74.00	-24.46	Peak
5150.00	42.34	34.13	7.48	36.88	47.07	74.00	-26.93	Peak
5182.59	88.62	34.13	7.48	36.89	93.34	74.00	19.34	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

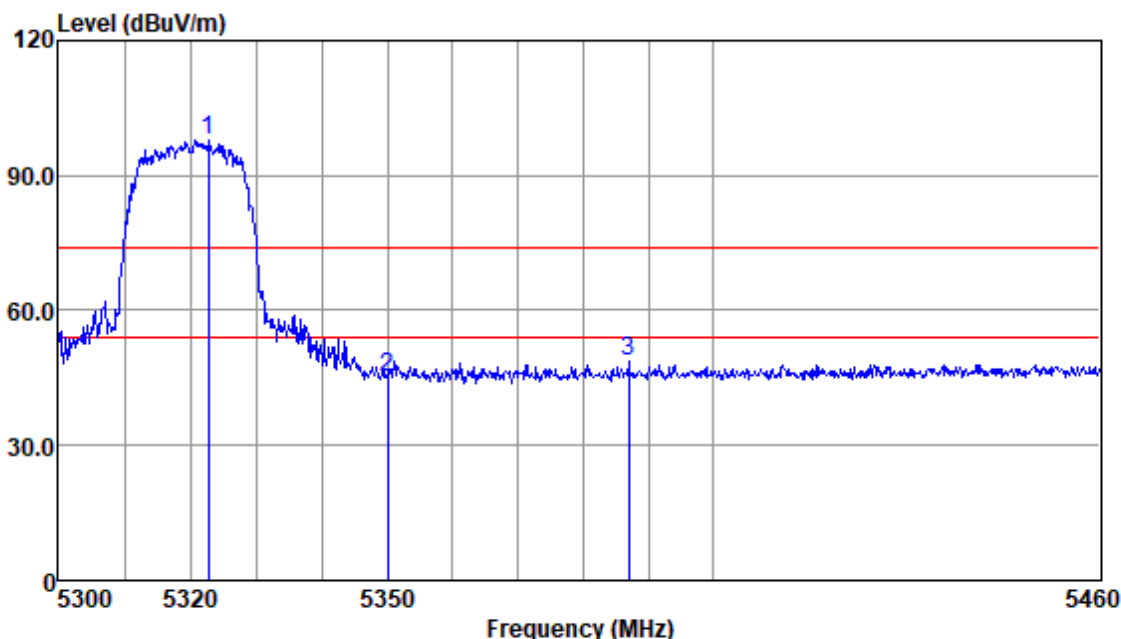


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5322.75	92.74	34.58	7.48	36.93	97.87	74.00	23.87	Peak
5350.00	40.03	34.71	7.49	36.94	45.29	74.00	-28.71	Peak
5386.93	43.27	34.69	7.49	36.95	48.50	74.00	-25.50	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

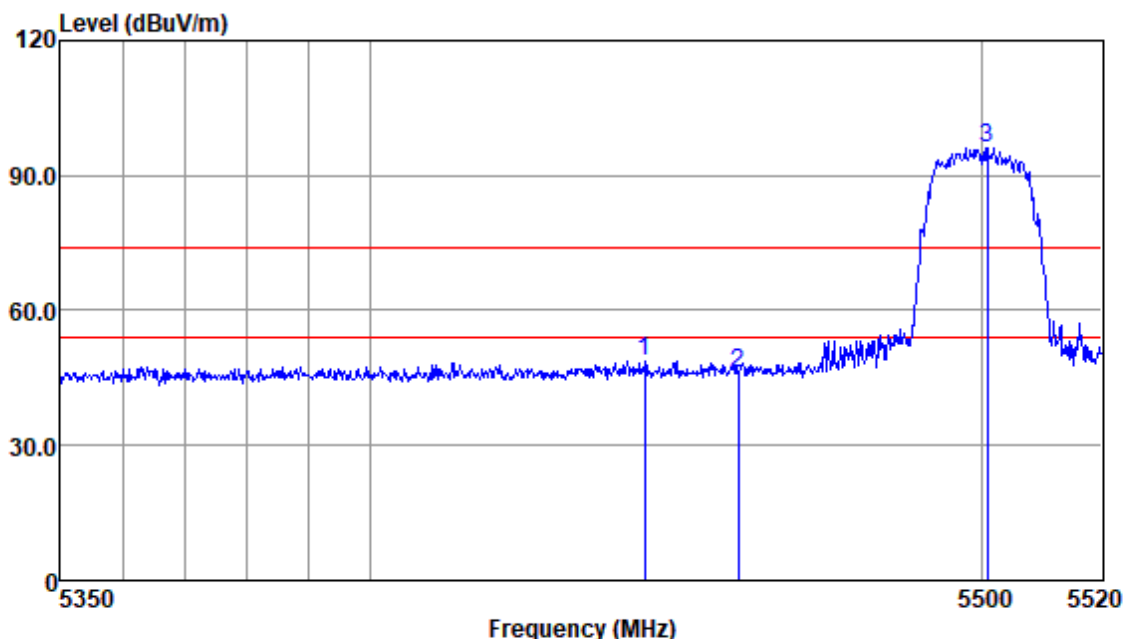


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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



Antenna Polarity : HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5444.72	43.67	34.65	7.49	36.96	48.85	74.00	-25.15	Peak
5460.00	41.11	34.64	7.49	36.97	46.27	74.00	-27.73	Peak
5501.04	91.05	34.69	7.49	36.98	96.25	74.00	22.25	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

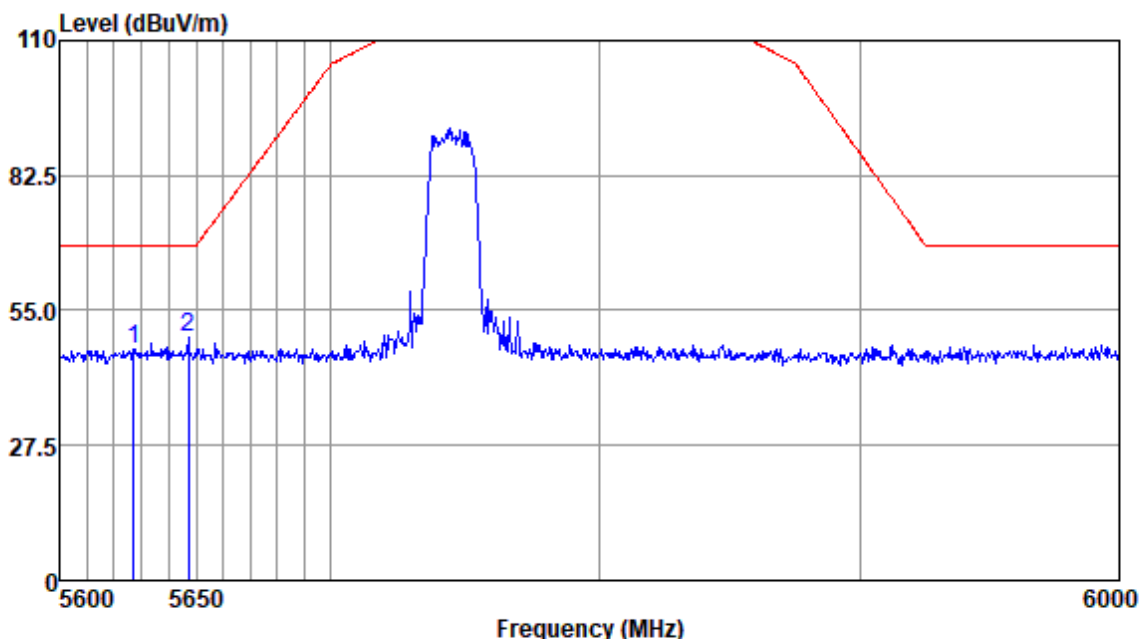


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5627.11	41.88	34.90	7.50	37.00	47.28	68.20	-20.92	Peak
5647.34	44.00	34.94	7.50	37.00	49.44	68.20	-18.76	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

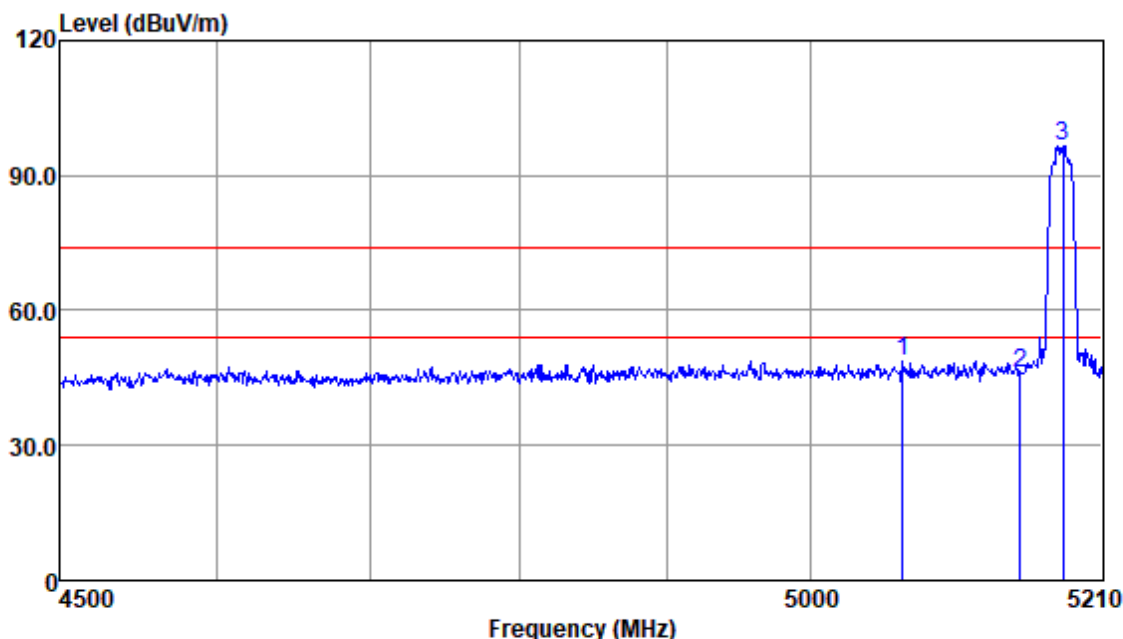


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5065.49	44.07	34.07	7.47	36.86	48.75	74.00	-25.25	Peak
5150.00	41.53	34.13	7.48	36.88	46.26	74.00	-27.74	Peak
5181.08	91.97	34.13	7.48	36.89	96.69	74.00	22.69	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

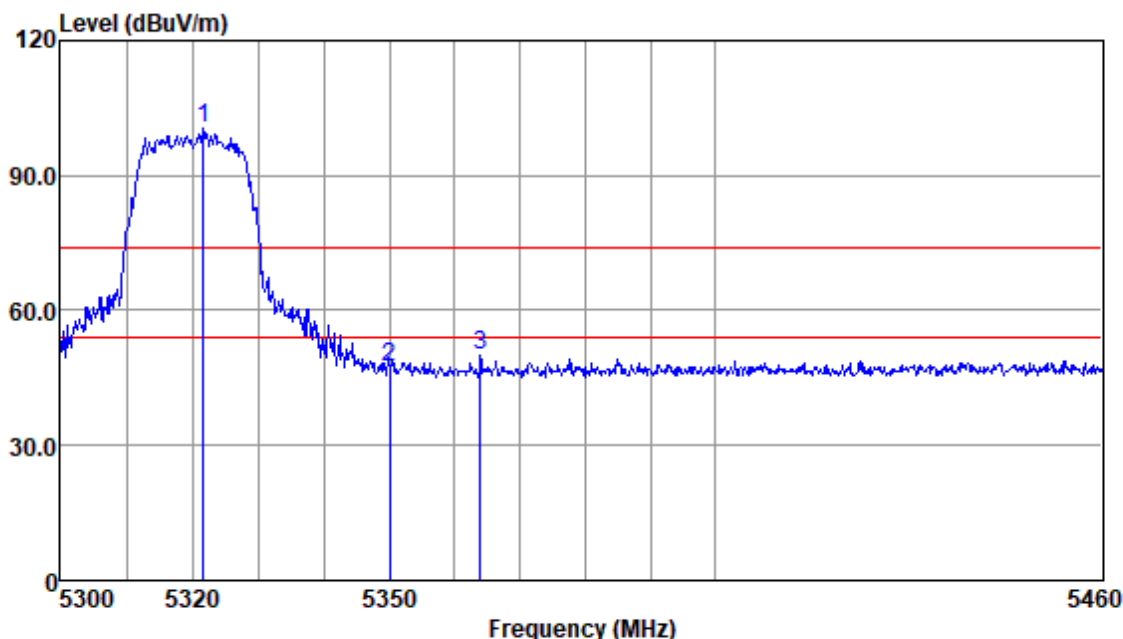


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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5321.64	95.24	34.58	7.48	36.93	100.37	74.00	26.37	Peak
5350.00	42.20	34.71	7.49	36.94	47.46	74.00	-26.54	Peak
5363.91	44.68	34.70	7.49	36.94	49.93	74.00	-24.07	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

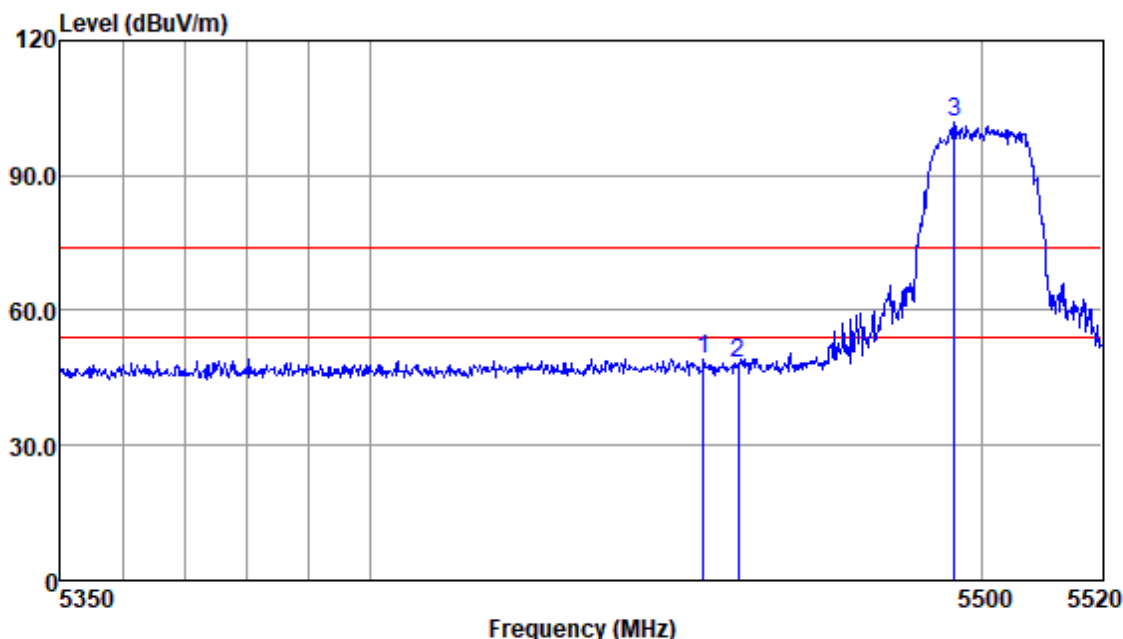


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5454.26	43.97	34.64	7.49	36.97	49.13	74.00	-24.87	Peak
5460.00	43.13	34.64	7.49	36.97	48.29	74.00	-25.71	Peak
5495.54	96.69	34.69	7.49	36.98	101.89	74.00	27.89	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

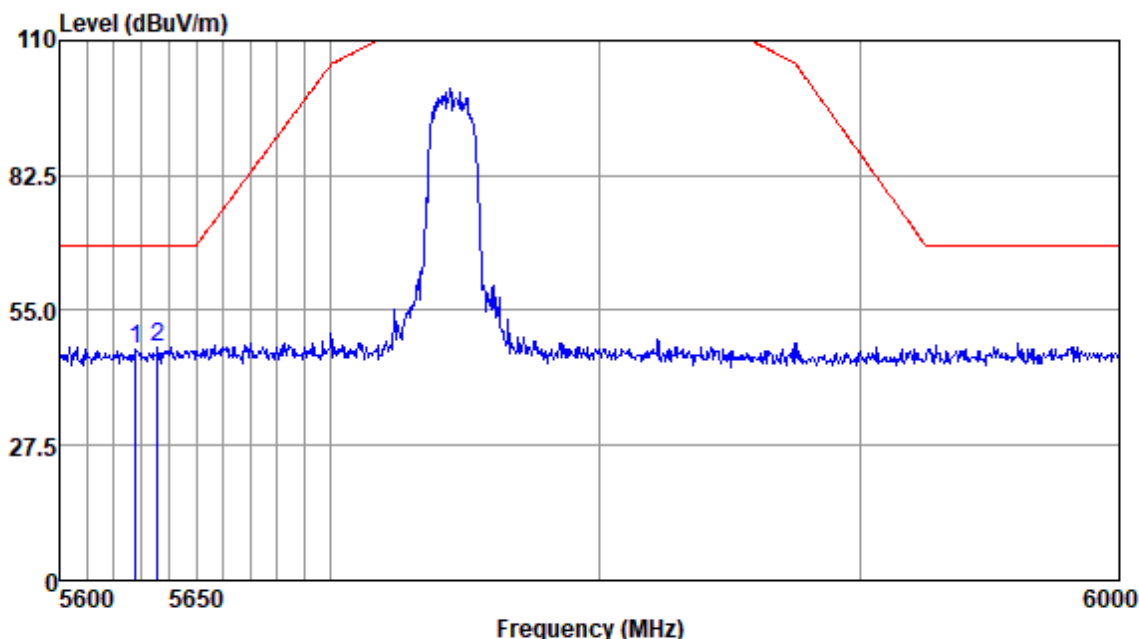


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5627.89	41.85	34.90	7.50	37.00	47.25	68.20	-20.95	Peak
5636.05	42.06	34.90	7.50	37.00	47.46	68.20	-20.74	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

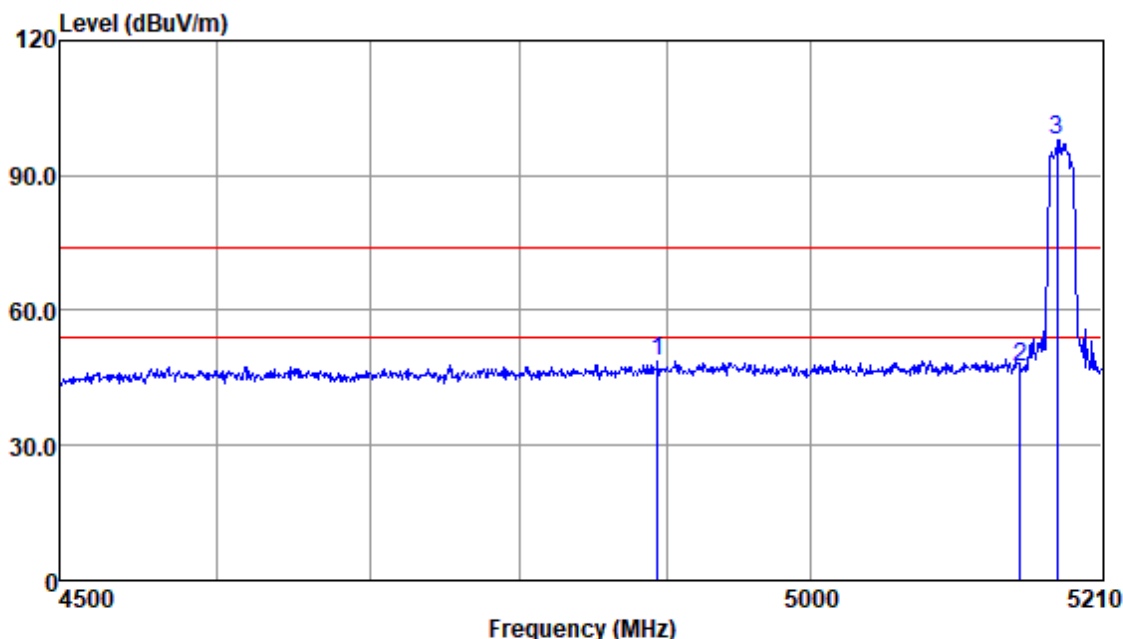


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4894.07	44.31	33.95	7.46	36.81	48.91	74.00	-25.09	Peak
5150.00	42.62	34.13	7.48	36.88	47.35	74.00	-26.65	Peak
5177.28	93.01	34.13	7.48	36.89	97.73	74.00	23.73	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

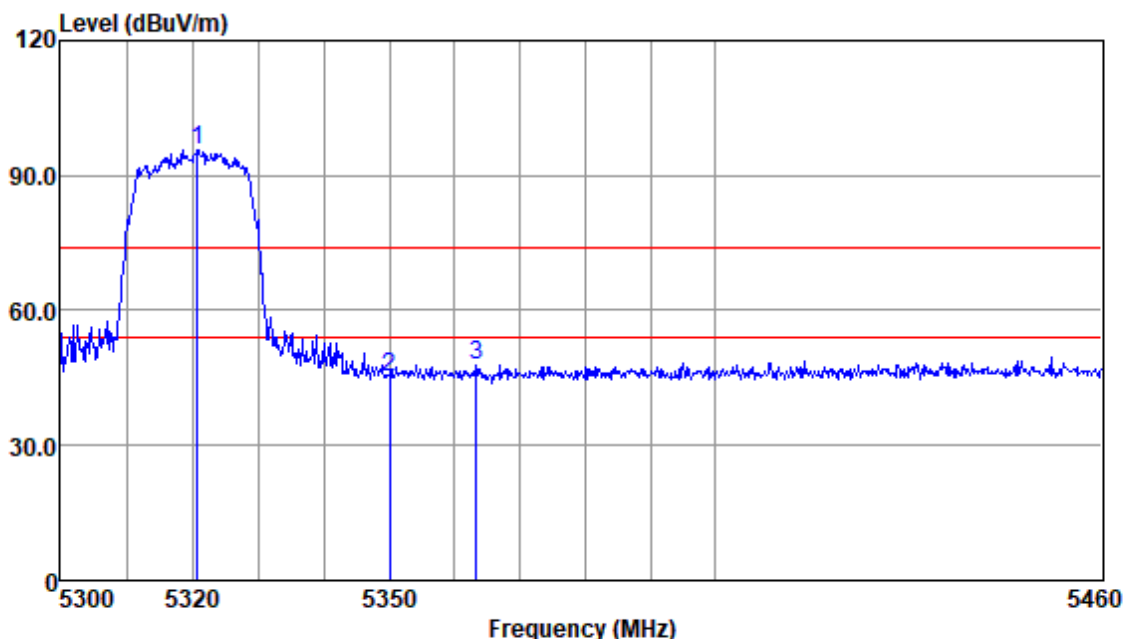


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5320.69	90.36	34.58	7.48	36.93	95.49	74.00	21.49	Peak
5350.00	40.03	34.71	7.49	36.94	45.29	74.00	-28.71	Peak
5363.27	42.70	34.70	7.49	36.94	47.95	74.00	-26.05	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

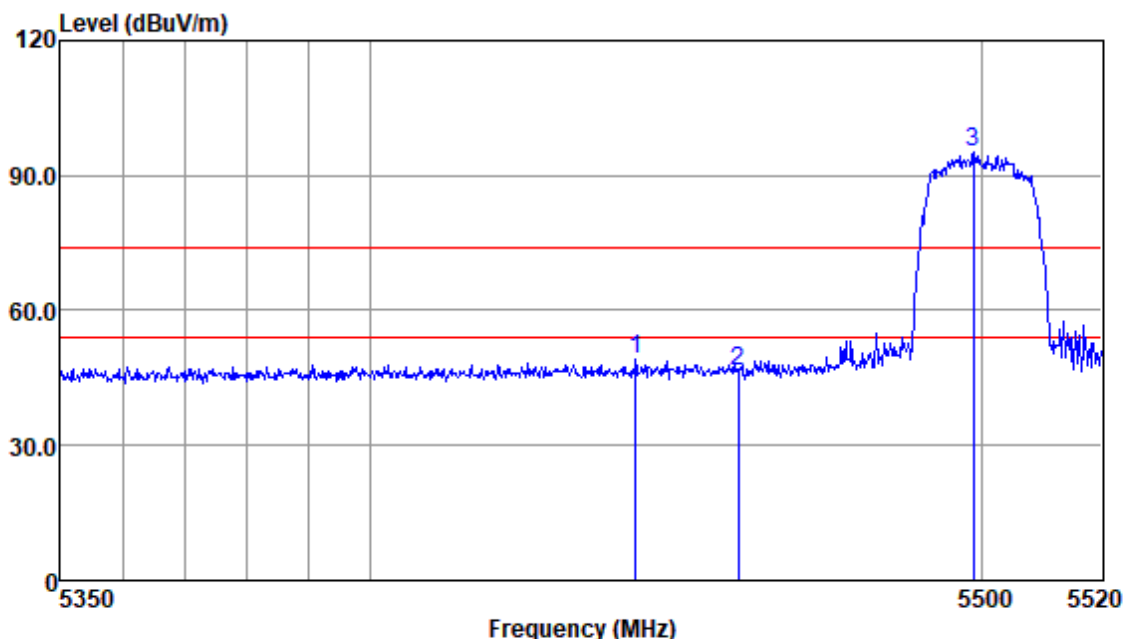


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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity : HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5443.18	44.01	34.65	7.49	36.96	49.19	74.00	-24.81	Peak
5460.00	41.23	34.64	7.49	36.97	46.39	74.00	-27.61	Peak
5498.63	89.93	34.69	7.49	36.98	95.13	74.00	21.13	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

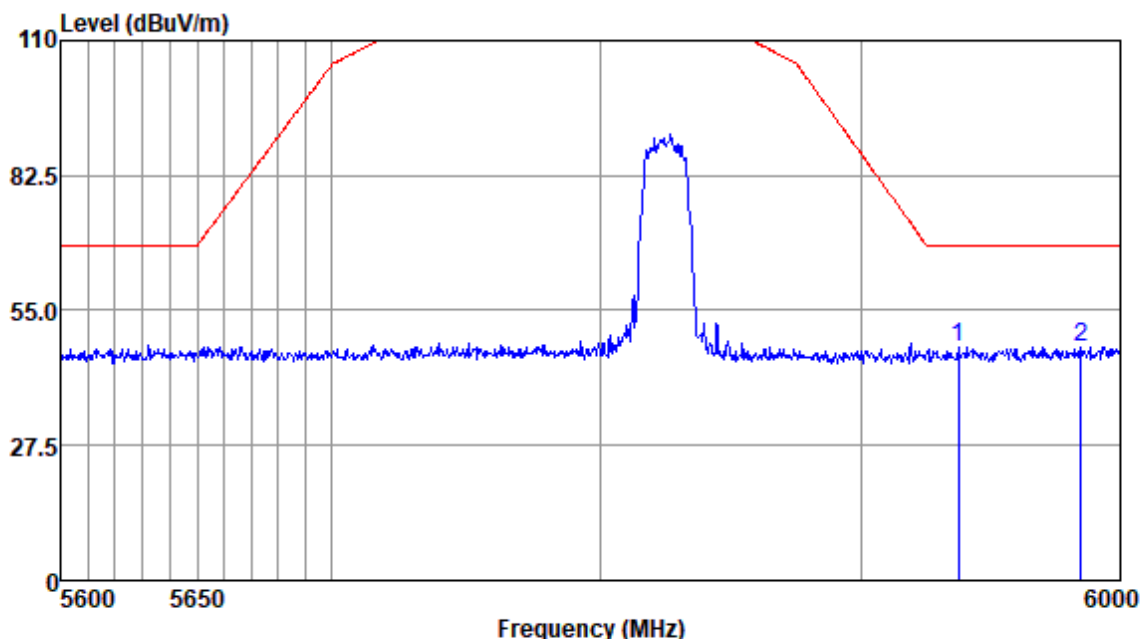


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5937.00	41.72	35.27	7.51	37.05	47.45	68.20	-20.75	Peak
5984.70	41.88	35.26	7.52	37.06	47.60	68.20	-20.60	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

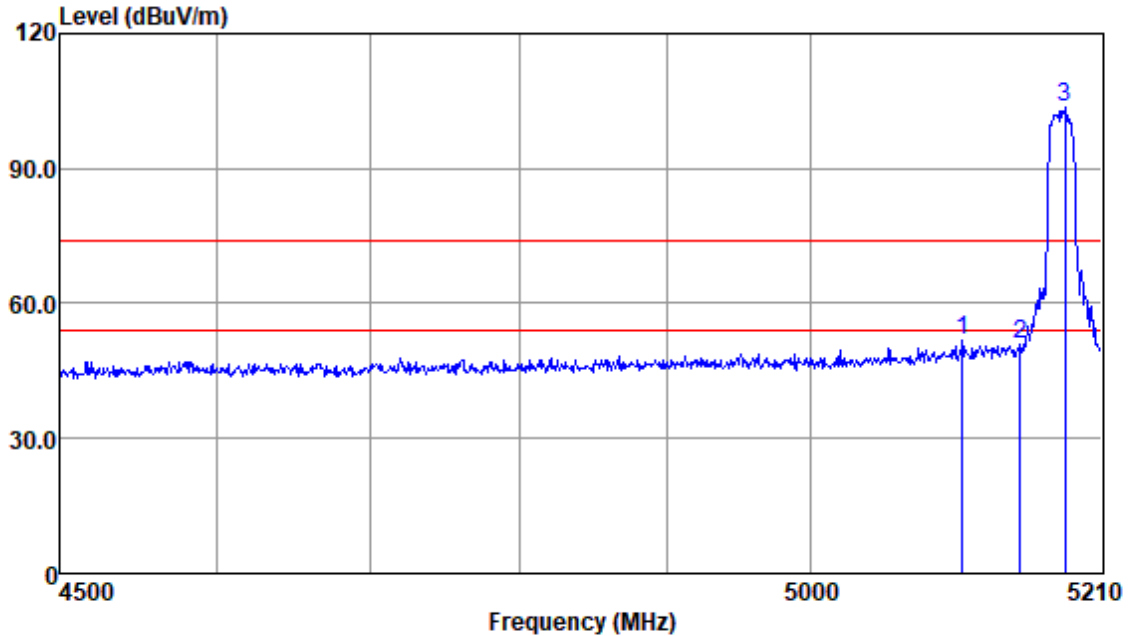


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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5108.72	47.13	34.14	7.47	36.87	51.87	74.00	-22.13	Peak
5150.00	46.00	34.13	7.48	36.88	50.73	74.00	-23.27	Peak
5182.59	98.84	34.13	7.48	36.89	103.56	74.00	29.56	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

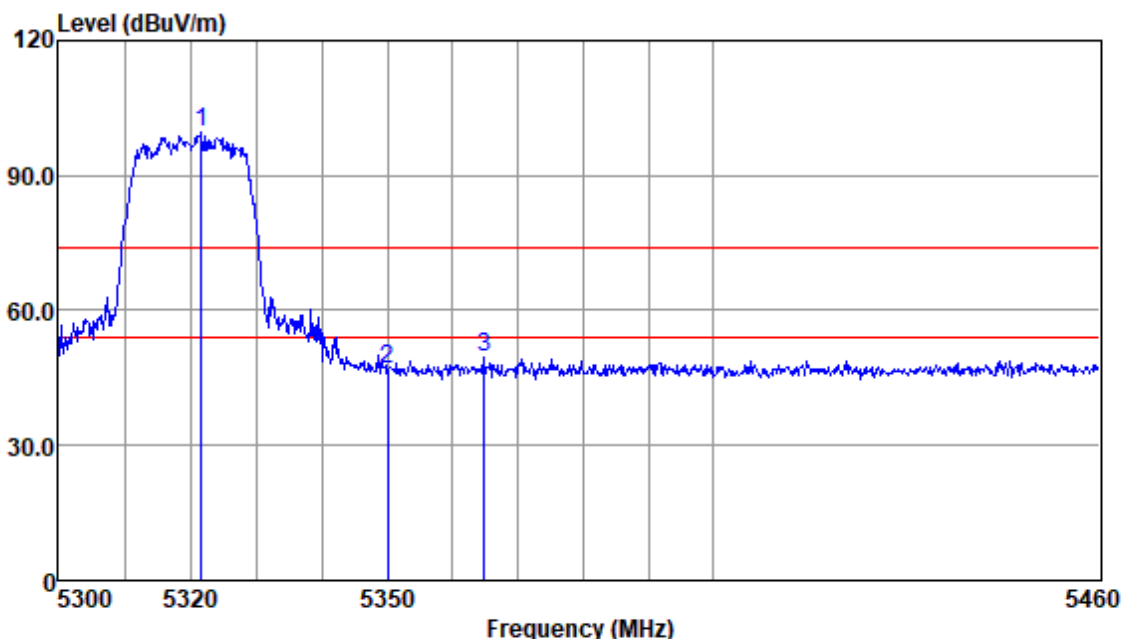


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5321.64	94.41	34.58	7.48	36.93	99.54	74.00	25.54	Peak
5350.00	41.83	34.71	7.49	36.94	47.09	74.00	-26.91	Peak
5364.87	44.27	34.70	7.49	36.94	49.52	74.00	-24.48	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

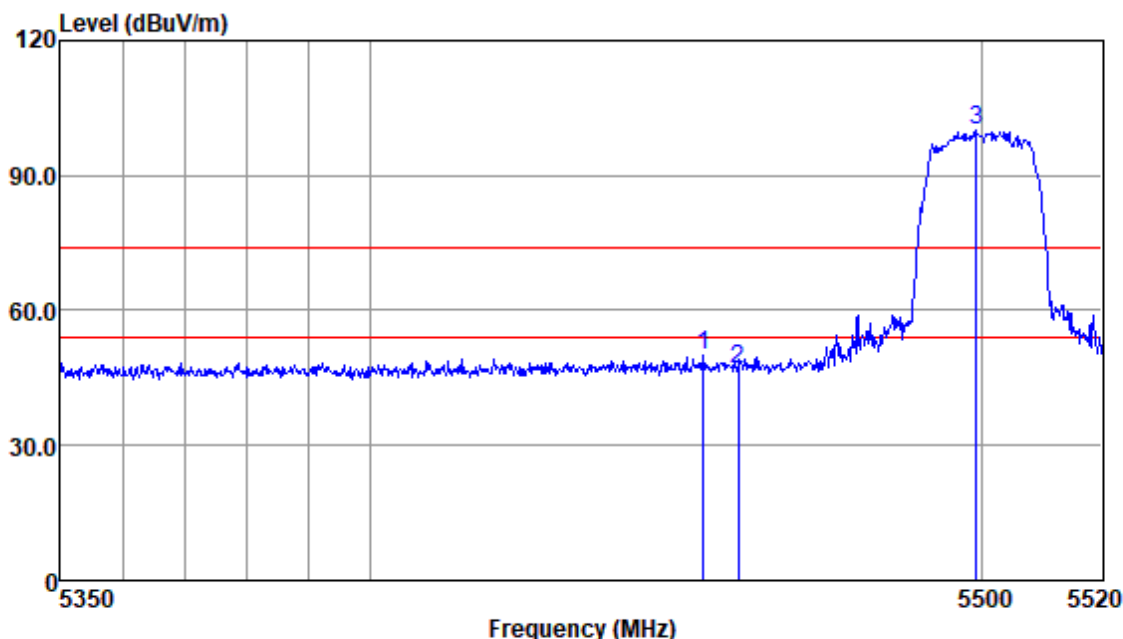


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5454.26	44.86	34.64	7.49	36.97	50.02	74.00	-23.98	Peak
5460.00	41.72	34.64	7.49	36.97	46.88	74.00	-27.12	Peak
5499.15	94.98	34.69	7.49	36.98	100.18	74.00	26.18	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

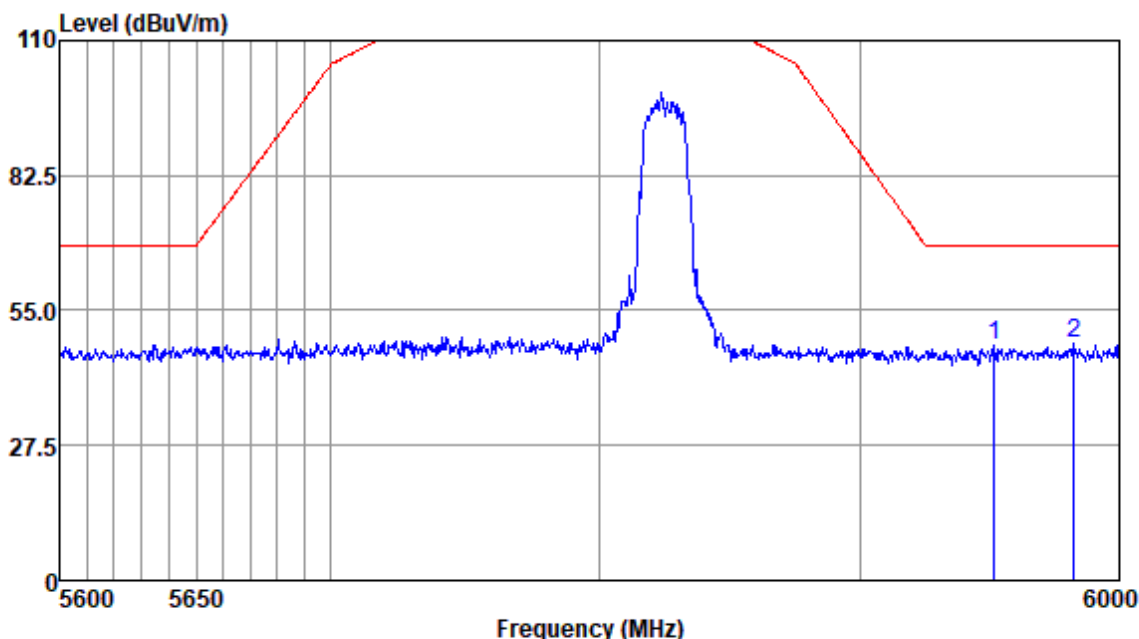


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5951.35	42.35	35.26	7.51	37.05	48.07	68.20	-20.13	Peak
5982.23	42.64	35.26	7.52	37.06	48.36	68.20	-19.84	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

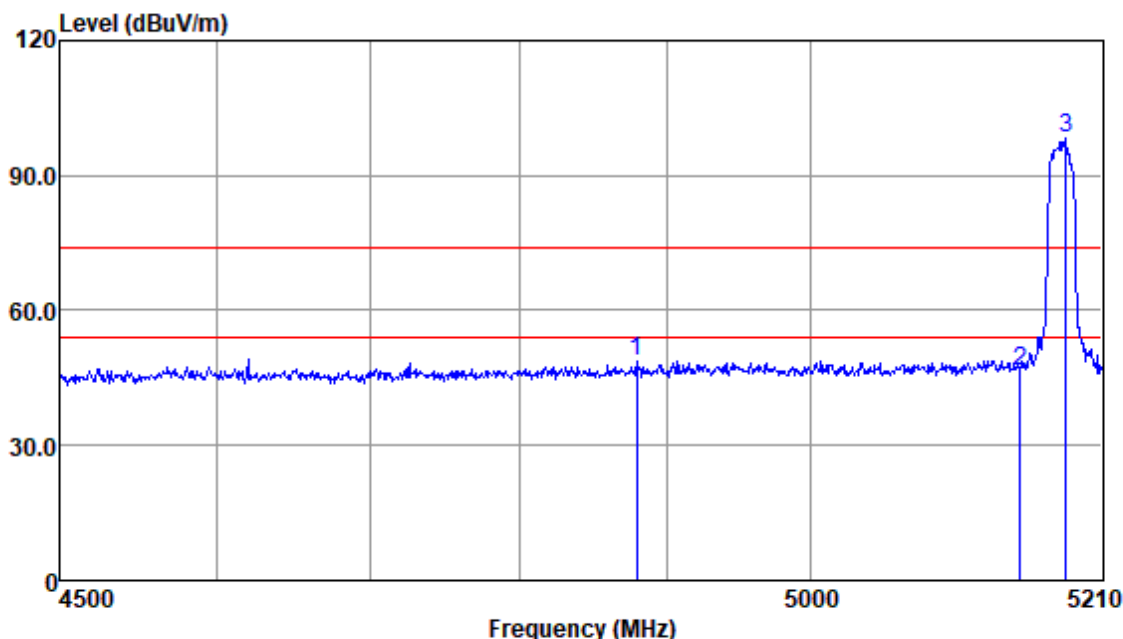


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4879.75	44.20	33.93	7.46	36.81	48.78	74.00	-25.22	Peak
5150.00	41.79	34.13	7.48	36.88	46.52	74.00	-27.48	Peak
5183.35	93.54	34.13	7.48	36.89	98.26	74.00	24.26	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

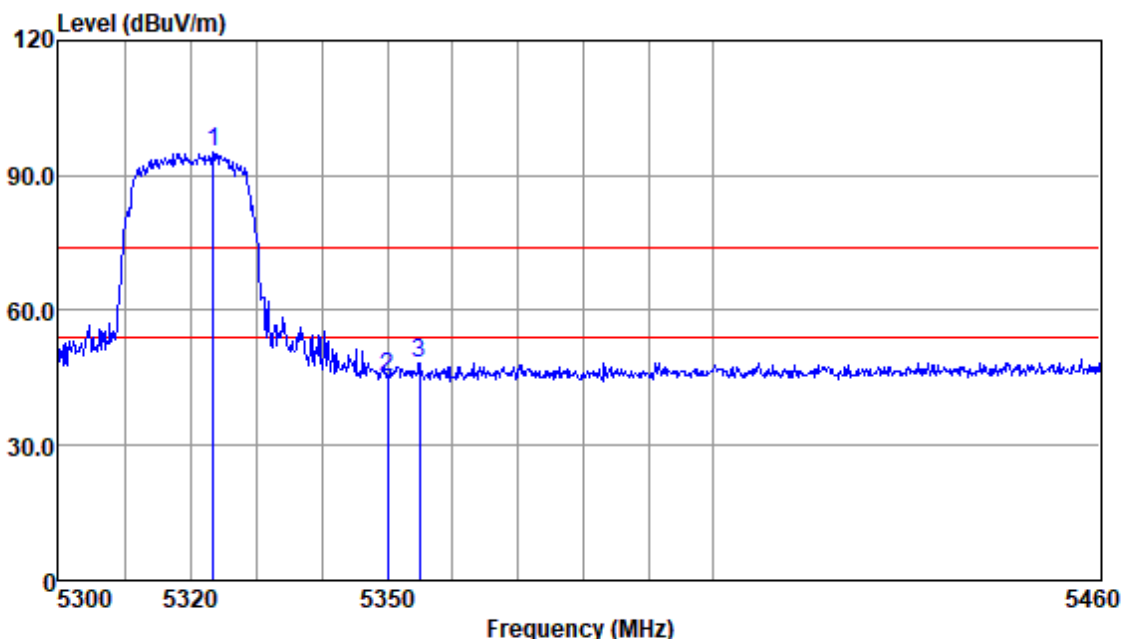


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5323.54	89.88	34.65	7.48	36.93	95.08	74.00	21.08	Peak
5350.00	39.85	34.71	7.49	36.94	45.11	74.00	-28.89	Peak
5354.98	43.17	34.70	7.49	36.94	48.42	74.00	-25.58	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

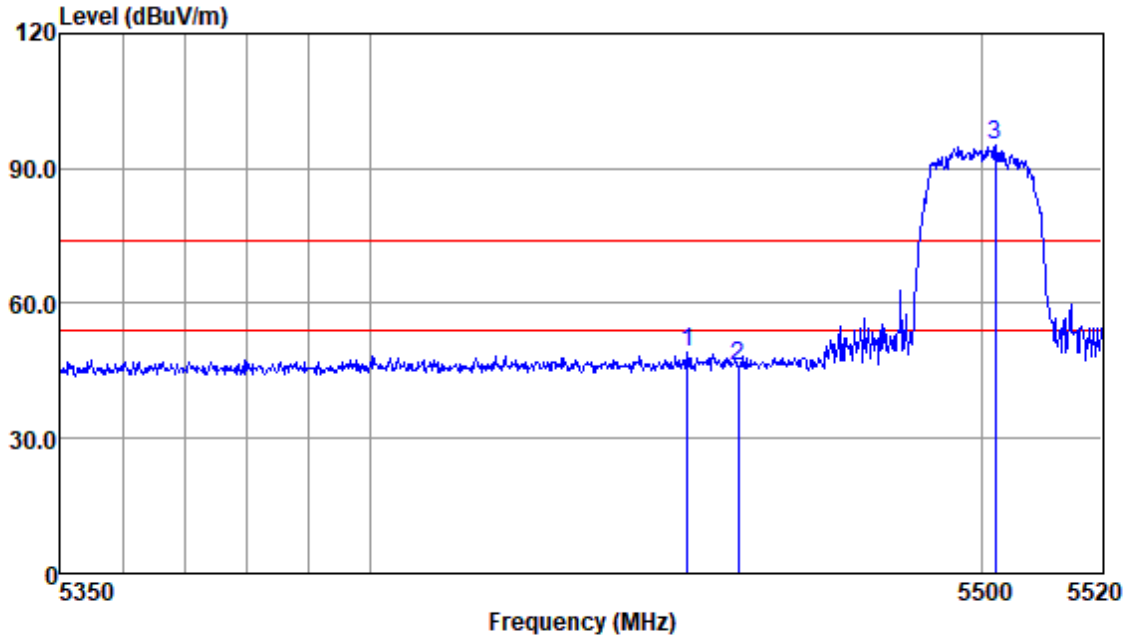


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5451.70	44.21	34.64	7.49	36.97	49.37	74.00	-24.63	Peak
5460.00	40.79	34.64	7.49	36.97	45.95	74.00	-28.05	Peak
5502.24	89.81	34.69	7.49	36.98	95.01	74.00	21.01	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

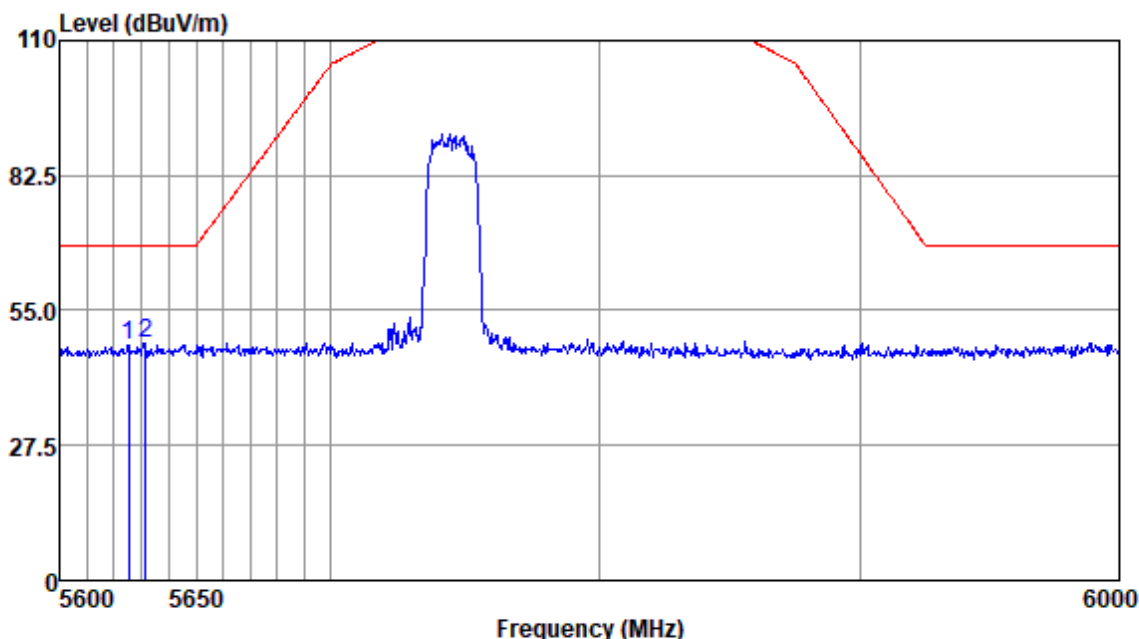


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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5625.17	42.45	34.90	7.50	37.00	47.85	68.20	-20.35	Peak
5631.38	42.79	34.90	7.50	37.00	48.19	68.20	-20.01	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

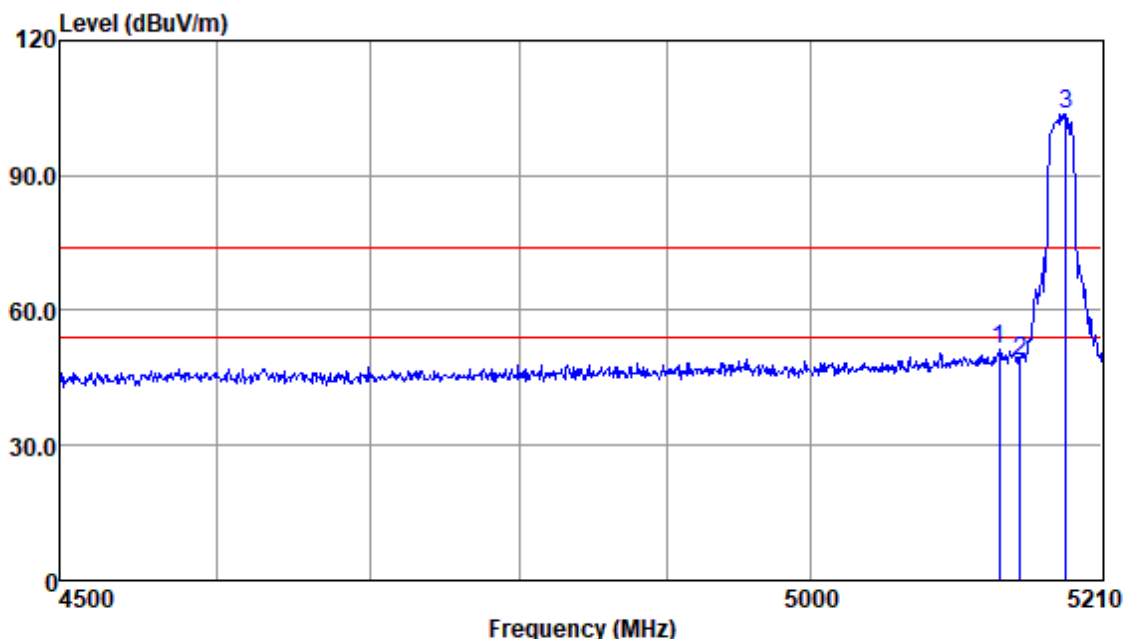


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5134.98	46.71	34.13	7.48	36.88	51.44	74.00	-22.56	Peak
5150.00	43.88	34.13	7.48	36.88	48.61	74.00	-25.39	Peak
5183.35	99.03	34.13	7.48	36.89	103.75	74.00	29.75	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

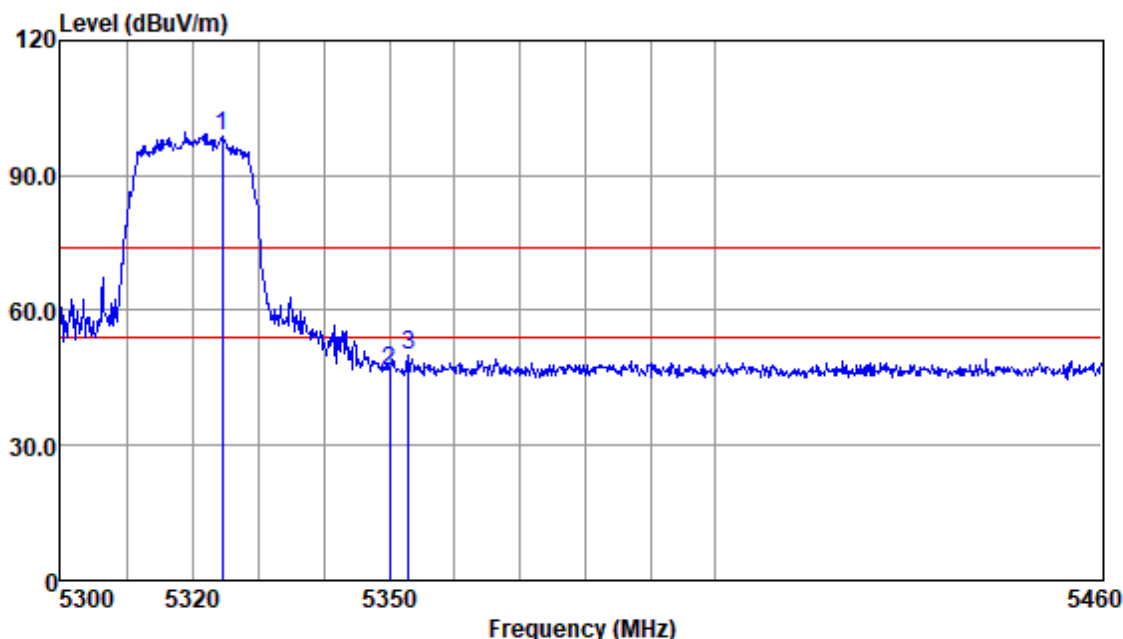


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5324.49	93.62	34.65	7.48	36.93	98.82	74.00	24.82	Peak
5350.00	41.35	34.71	7.49	36.94	46.61	74.00	-27.39	Peak
5352.91	44.95	34.71	7.49	36.94	50.21	74.00	-23.79	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

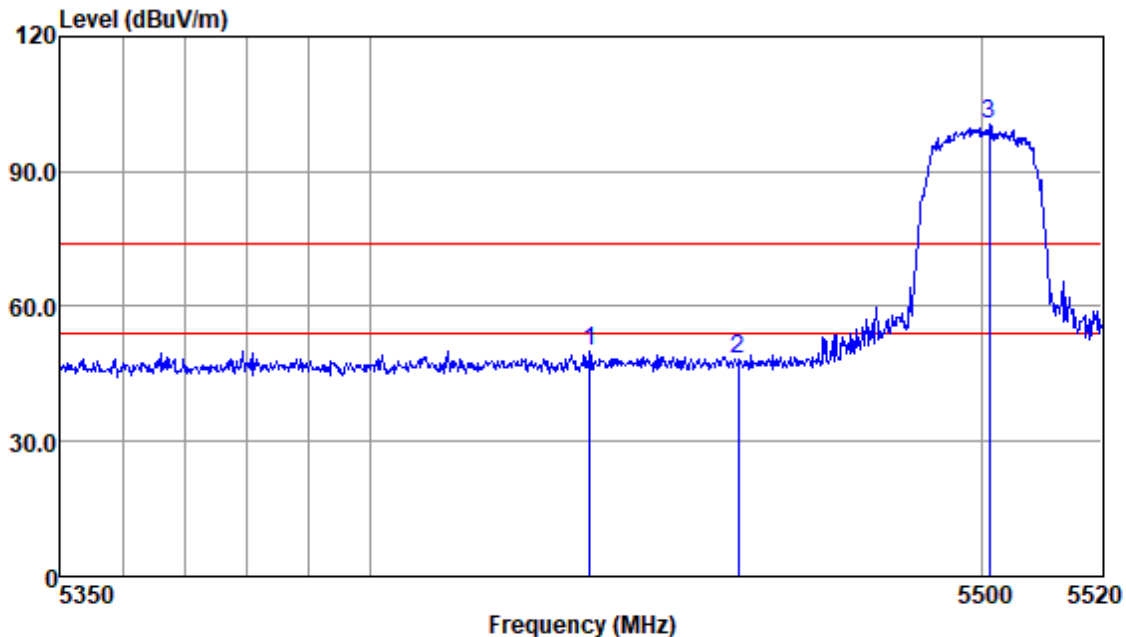


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5435.70	44.65	34.65	7.49	36.96	49.83	74.00	-24.17	Peak
5460.00	43.15	34.64	7.49	36.97	48.31	74.00	-25.69	Peak
5501.38	95.12	34.69	7.49	36.98	100.32	74.00	26.32	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

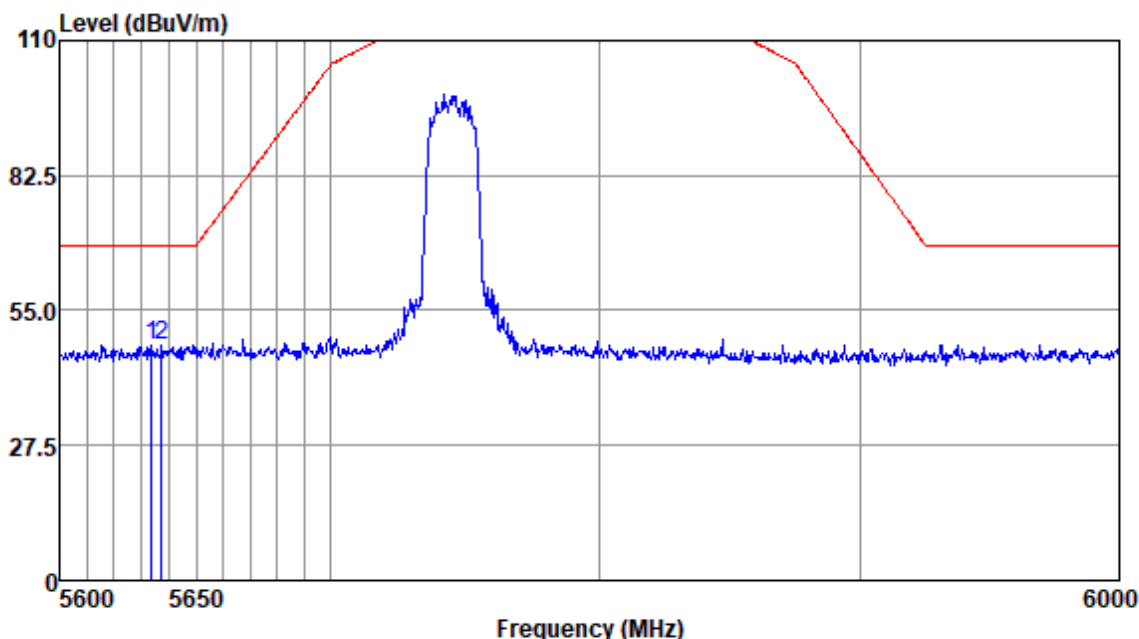


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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5633.71	42.53	34.90	7.50	37.00	47.93	68.20	-20.27	Peak
5637.21	42.59	34.90	7.50	37.00	47.99	68.20	-20.21	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

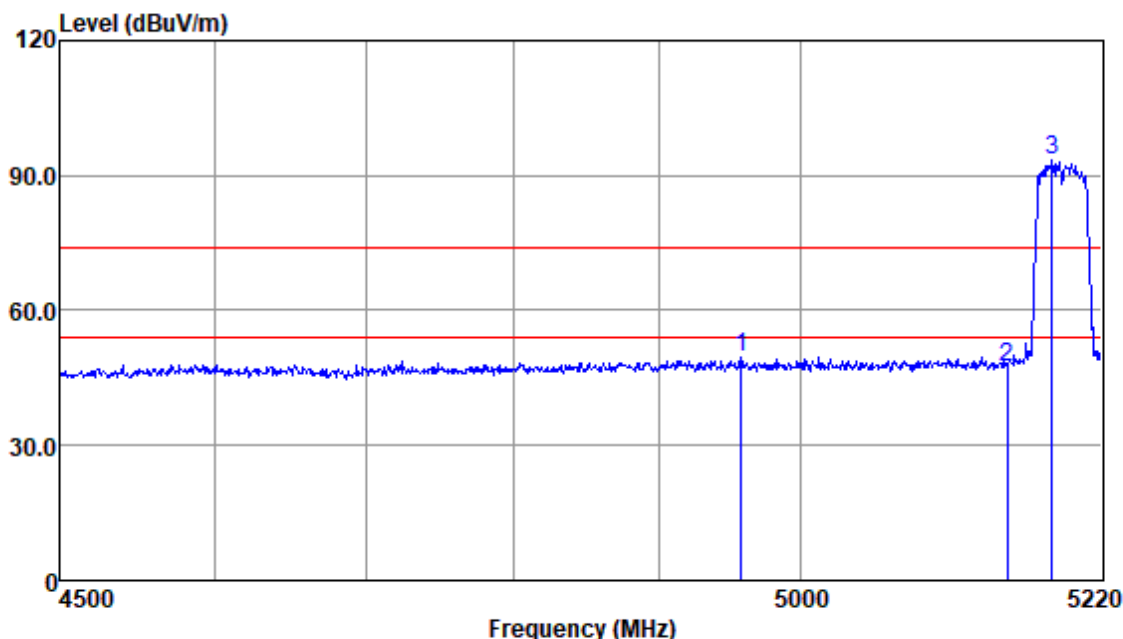


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4957.97	45.08	33.98	7.47	36.83	49.70	74.00	-24.30	Peak
5150.00	42.85	34.13	7.48	36.88	47.58	74.00	-26.42	Peak
5182.94	88.66	34.13	7.48	36.89	93.38	74.00	19.38	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

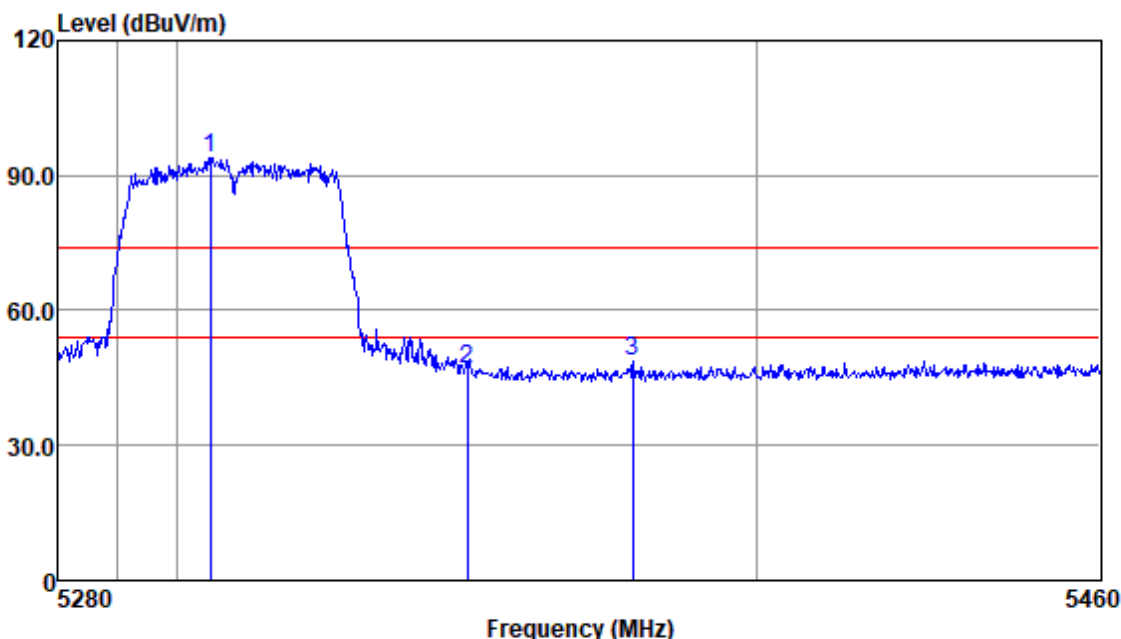


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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



Antenna Polarity : HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5305.91	88.82	34.52	7.48	36.92	93.90	74.00	19.90	Peak
5350.00	41.59	34.71	7.49	36.94	46.85	74.00	-27.15	Peak
5378.43	43.49	34.70	7.49	36.95	48.73	74.00	-25.27	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



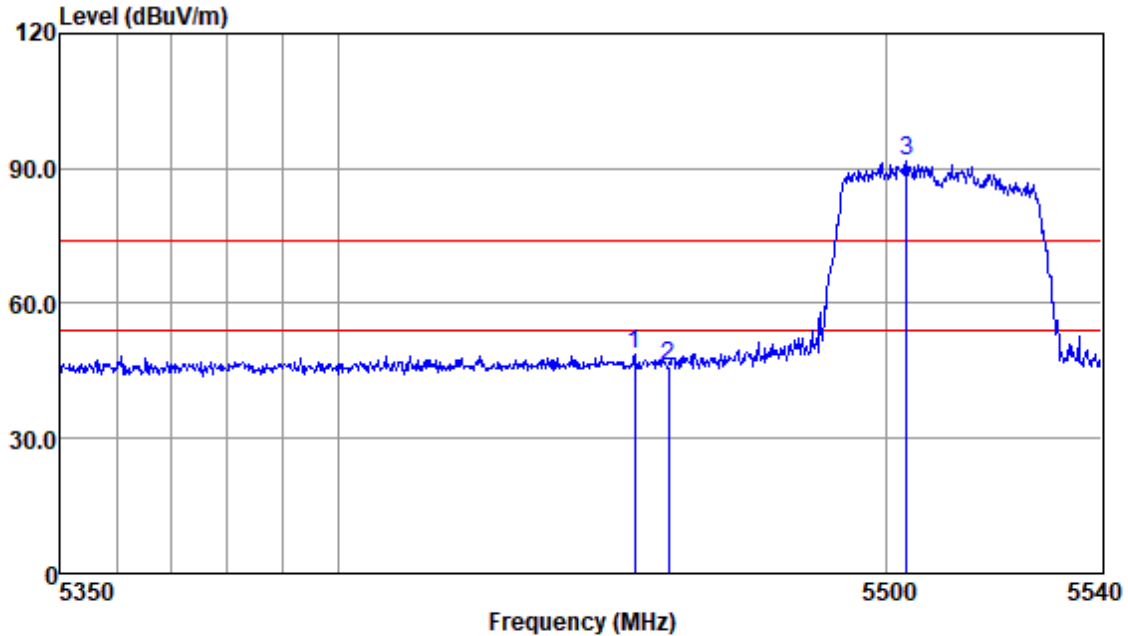
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5453.87	43.60	34.64	7.49	36.97	48.76	74.00	-25.24	Peak
5460.00	40.73	34.64	7.49	36.97	45.89	74.00	-28.11	Peak
5503.77	86.36	34.69	7.49	36.98	91.56	74.00	17.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

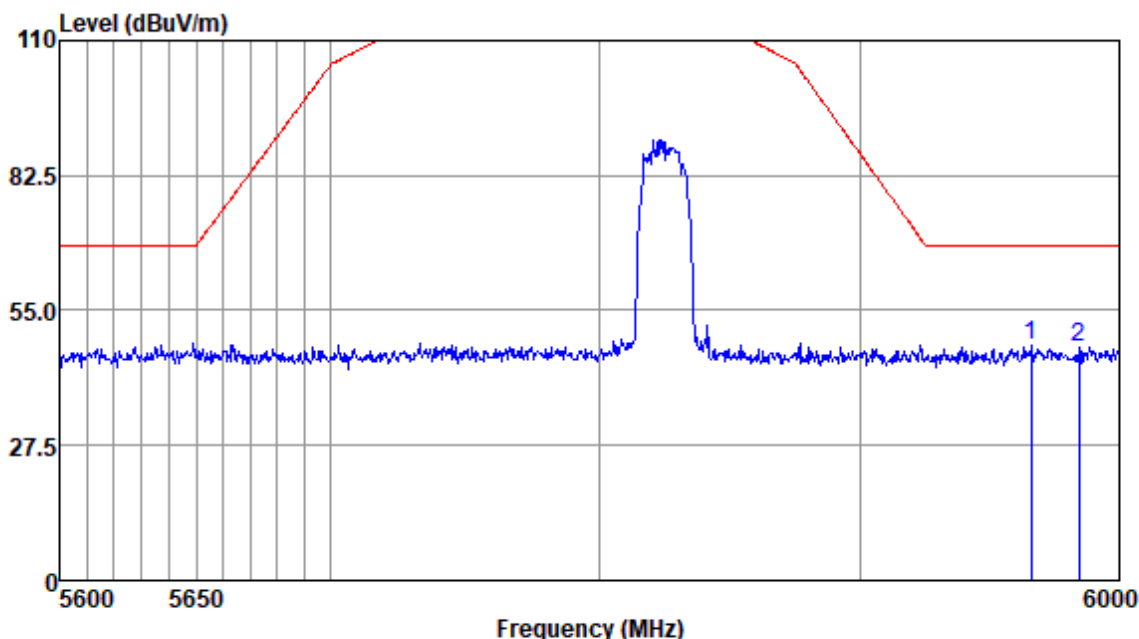


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5965.74	42.00	35.26	7.51	37.05	47.72	68.20	-20.48	Peak
5984.29	41.93	35.26	7.52	37.06	47.65	68.20	-20.55	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

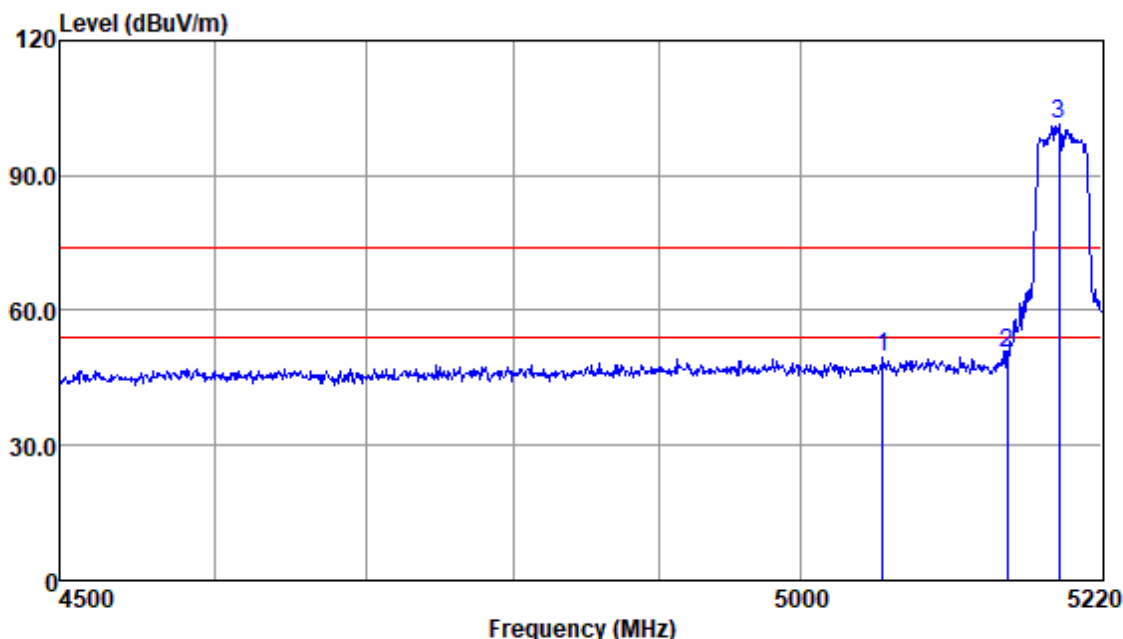


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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5059.06	45.09	34.07	7.47	36.86	49.77	74.00	-24.23	Peak
5150.00	45.83	34.13	7.48	36.88	50.56	74.00	-23.44	Peak
5187.56	96.58	34.13	7.48	36.89	101.30	74.00	27.30	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

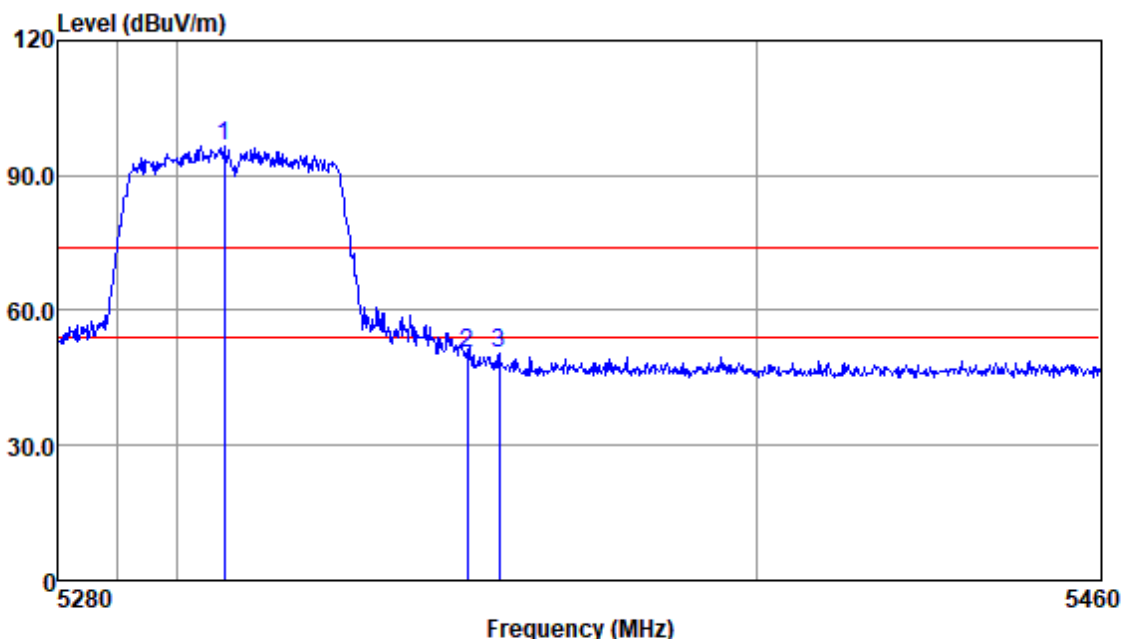


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5308.22	91.43	34.58	7.48	36.93	96.56	74.00	22.56	Peak
5350.00	45.23	34.71	7.49	36.94	50.49	74.00	-23.51	Peak
5355.40	45.31	34.70	7.49	36.94	50.56	74.00	-23.44	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

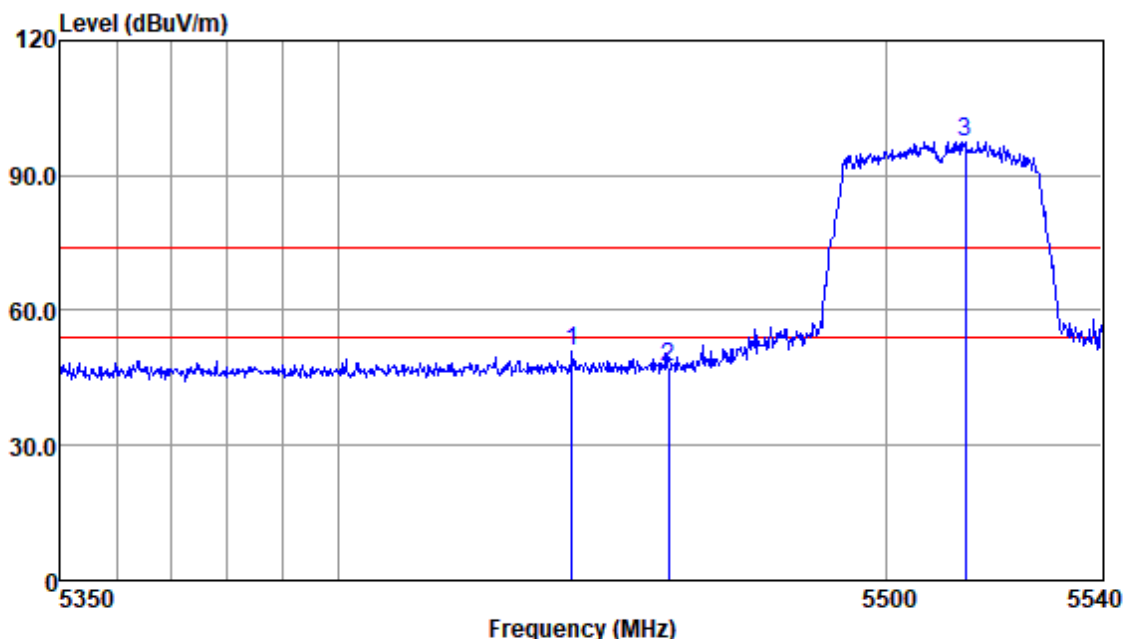


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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5442.46	45.64	34.65	7.49	36.96	50.82	74.00	-23.18	Peak
5460.00	42.27	34.64	7.49	36.97	47.43	74.00	-26.57	Peak
5514.73	92.43	34.69	7.49	36.98	97.63	74.00	23.63	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

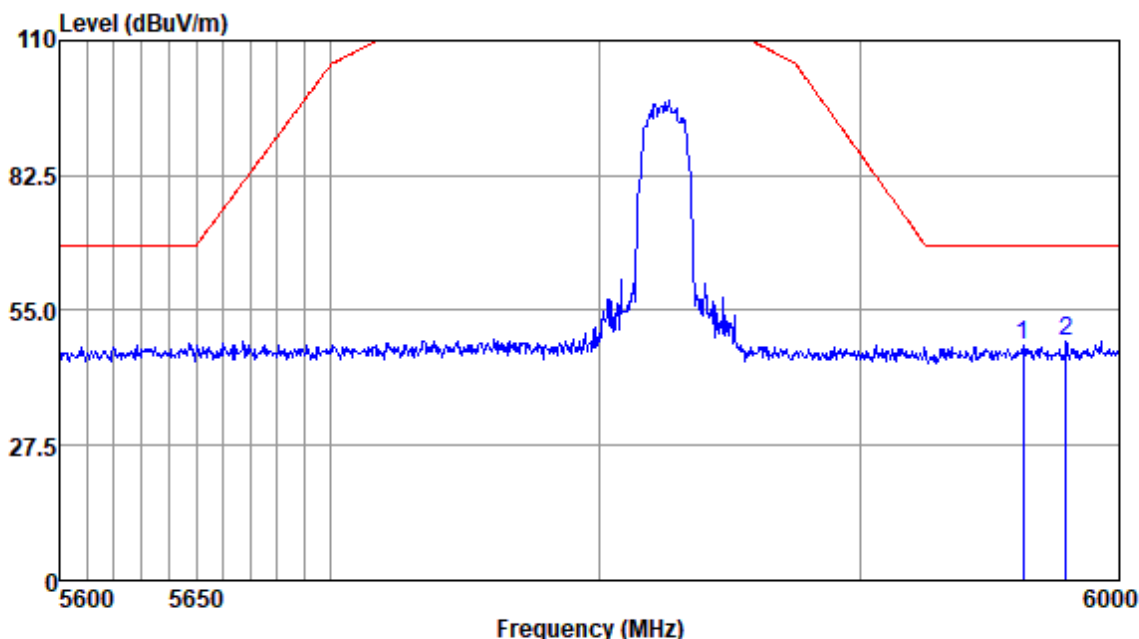


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Test Mode: 04; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5962.45	42.24	35.26	7.51	37.05	47.96	68.20	-20.24	Peak
5979.34	42.90	35.26	7.52	37.06	48.62	68.20	-19.58	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

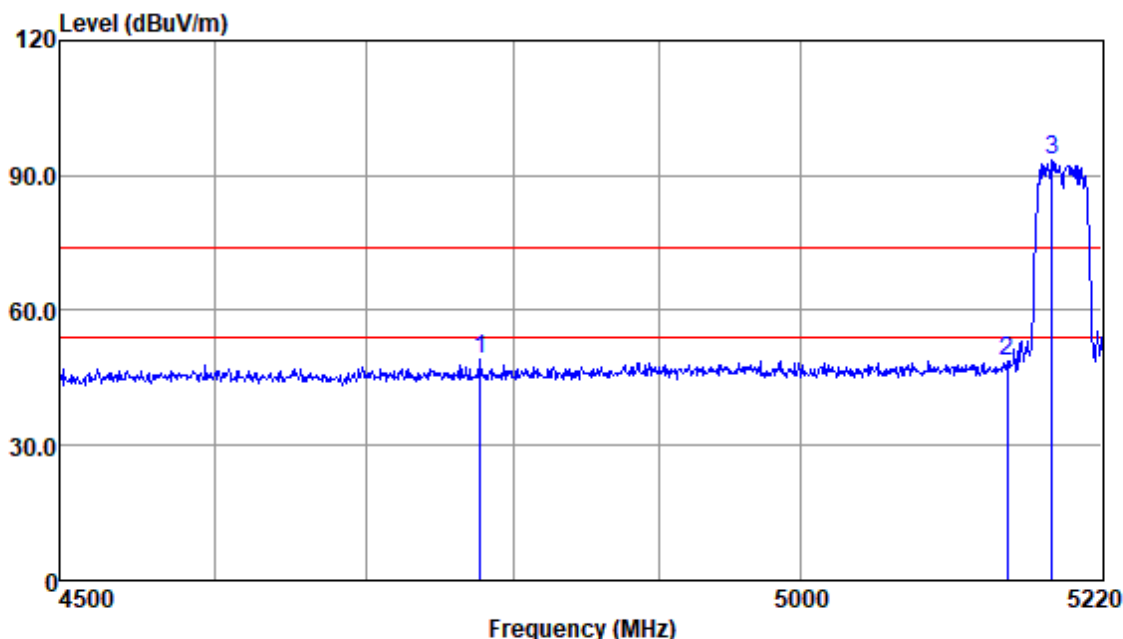


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4777.37	44.65	33.62	7.46	36.78	48.95	74.00	-25.05	Peak
5150.00	43.77	34.13	7.48	36.88	48.50	74.00	-25.50	Peak
5182.94	88.61	34.13	7.48	36.89	93.33	74.00	19.33	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

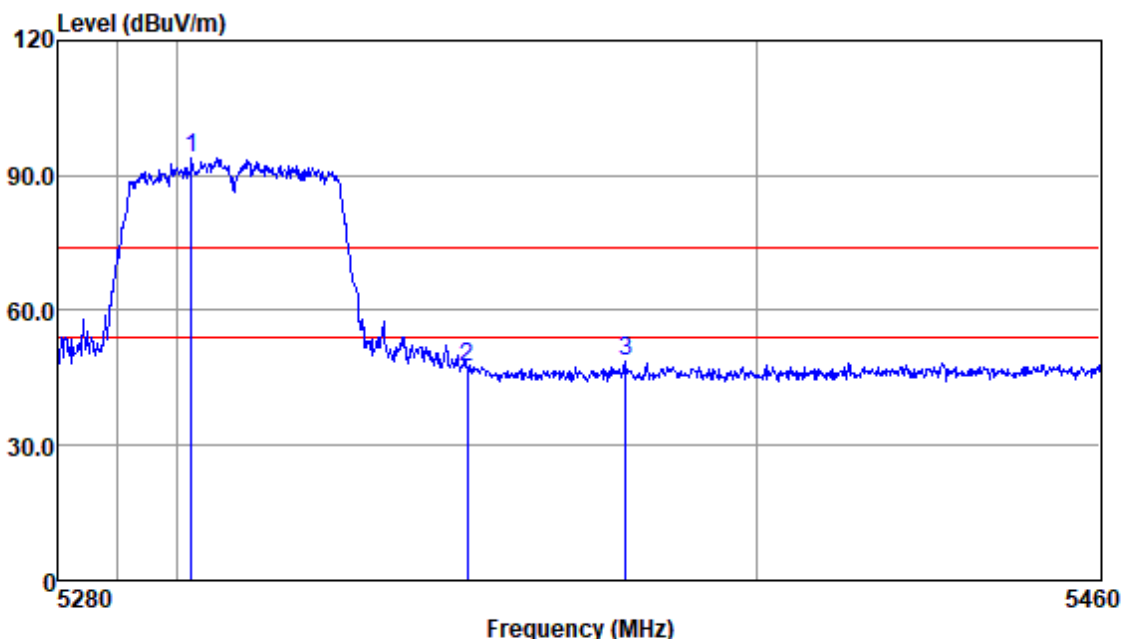


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5302.71	89.02	34.52	7.48	36.92	94.10	74.00	20.10	Peak
5350.00	42.19	34.71	7.49	36.94	47.45	74.00	-26.55	Peak
5377.17	43.29	34.70	7.49	36.95	48.53	74.00	-25.47	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

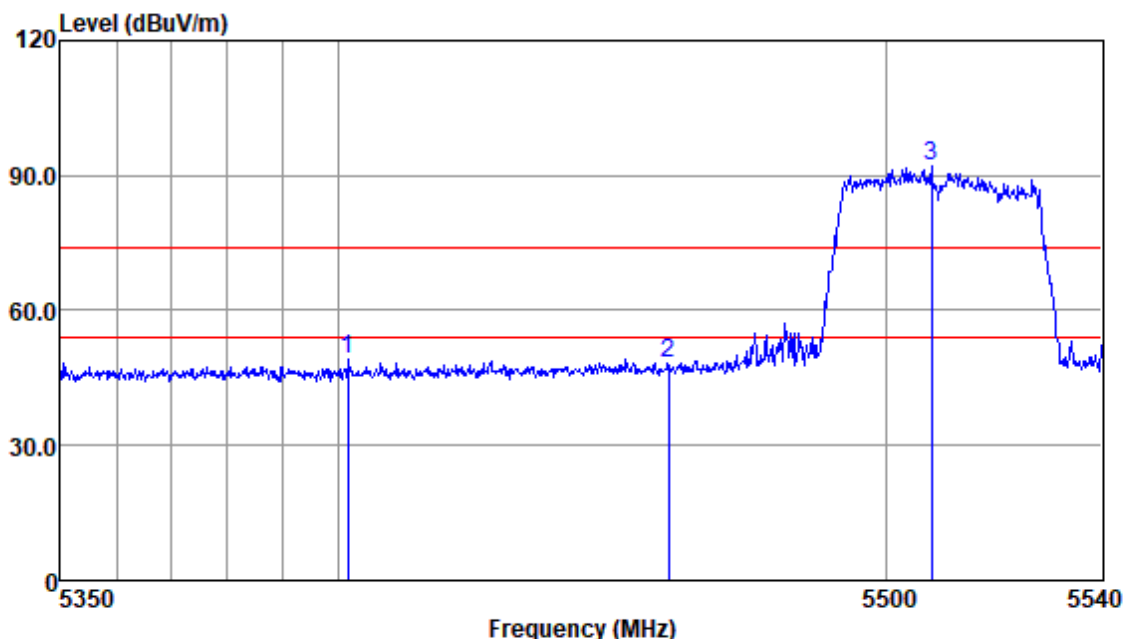


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5401.78	43.95	34.68	7.49	36.95	49.17	74.00	-24.83	Peak
5460.00	43.02	34.64	7.49	36.97	48.18	74.00	-25.82	Peak
5508.38	86.77	34.69	7.49	36.98	91.97	74.00	17.97	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

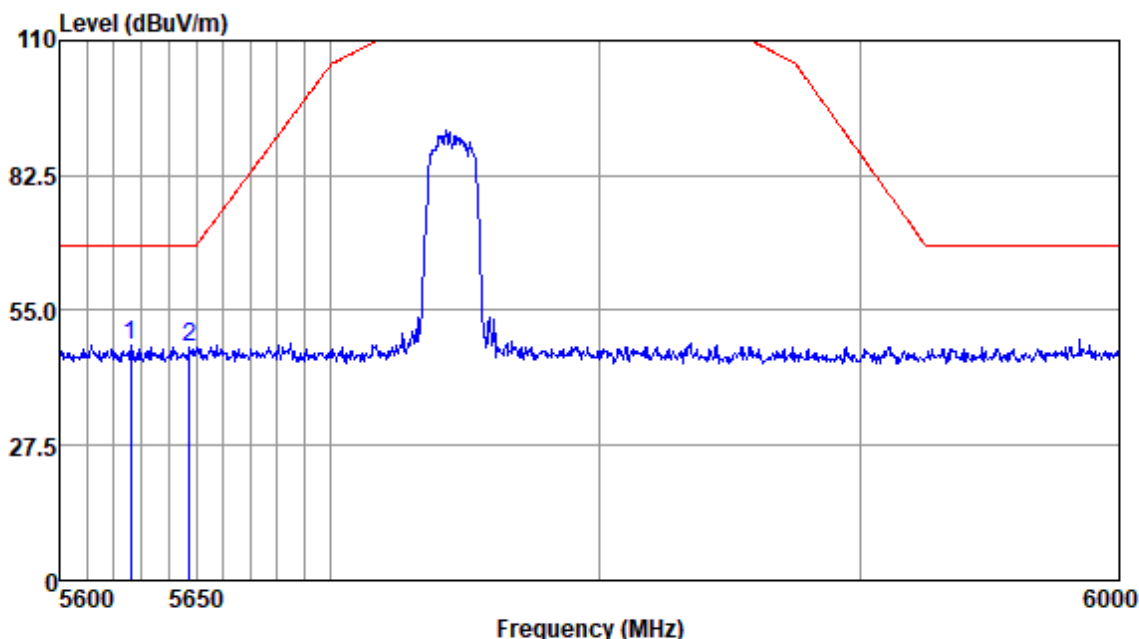


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5625.95	42.49	34.90	7.50	37.00	47.89	68.20	-20.31	Peak
5647.73	42.20	34.94	7.50	37.00	47.64	68.20	-20.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

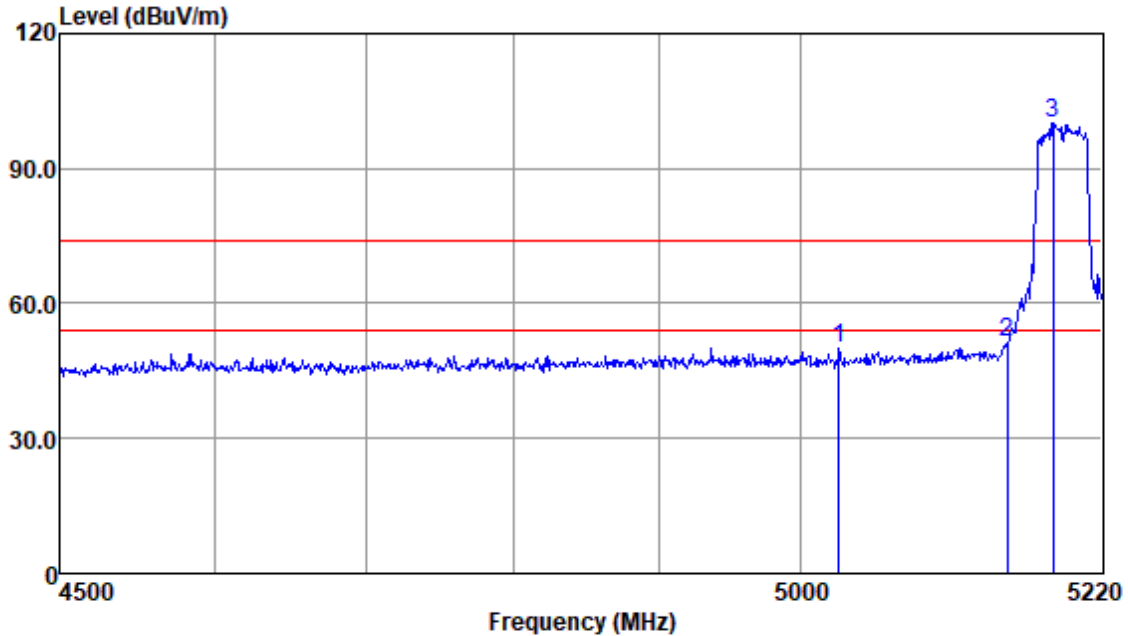


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5027.62	45.53	34.01	7.47	36.85	50.16	74.00	-23.84	Peak
5150.00	46.46	34.13	7.48	36.88	51.19	74.00	-22.81	Peak
5183.71	95.31	34.13	7.48	36.89	100.03	74.00	26.03	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

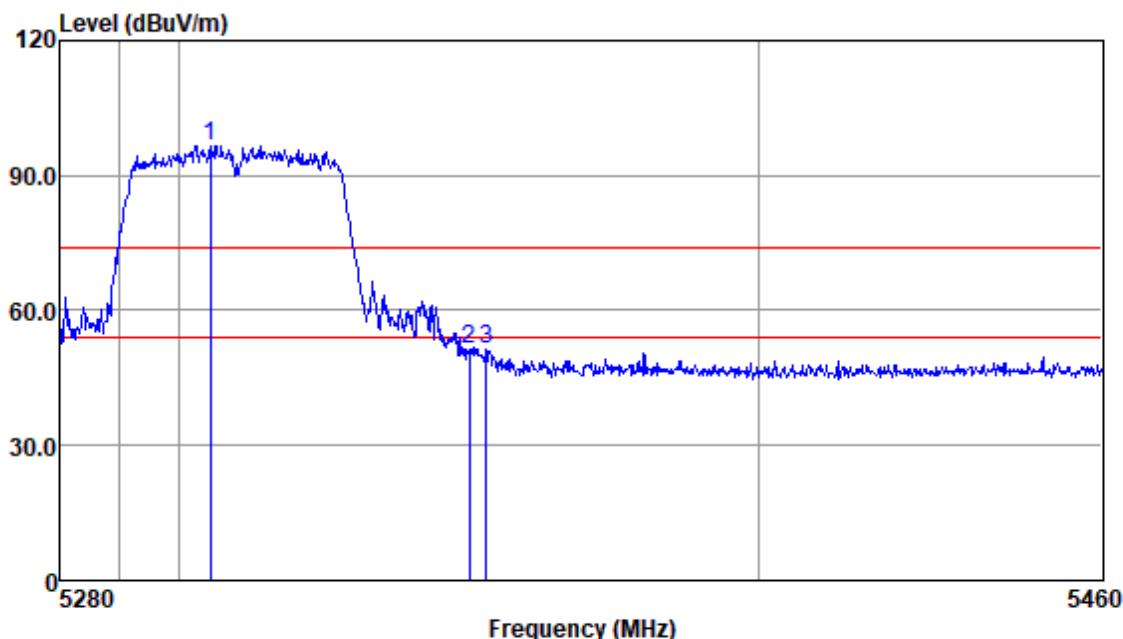


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5305.55	91.67	34.52	7.48	36.92	96.75	74.00	22.75	Peak
5350.00	45.92	34.71	7.49	36.94	51.18	74.00	-22.82	Peak
5352.89	45.90	34.71	7.49	36.94	51.16	74.00	-22.84	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

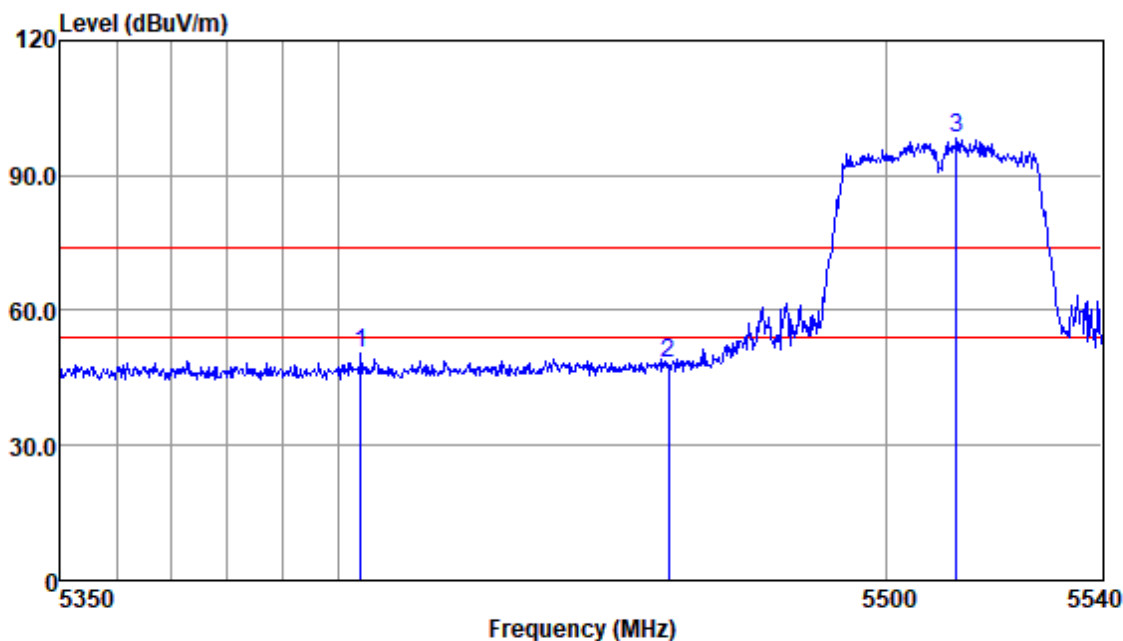


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5404.04	45.06	34.68	7.49	36.95	50.28	74.00	-23.72	Peak
5460.00	42.91	34.64	7.49	36.97	48.07	74.00	-25.93	Peak
5513.00	92.90	34.69	7.49	36.98	98.10	74.00	24.10	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

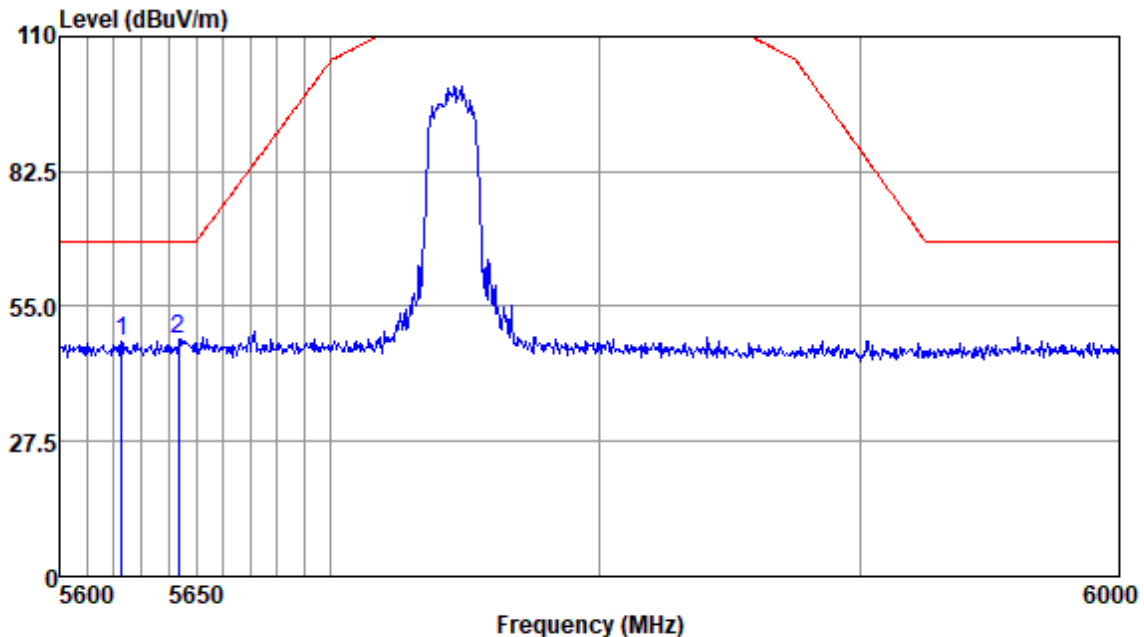


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5622.84	42.51	34.87	7.50	37.00	47.88	68.20	-20.32	Peak
5643.44	43.01	34.94	7.50	37.00	48.45	68.20	-19.75	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

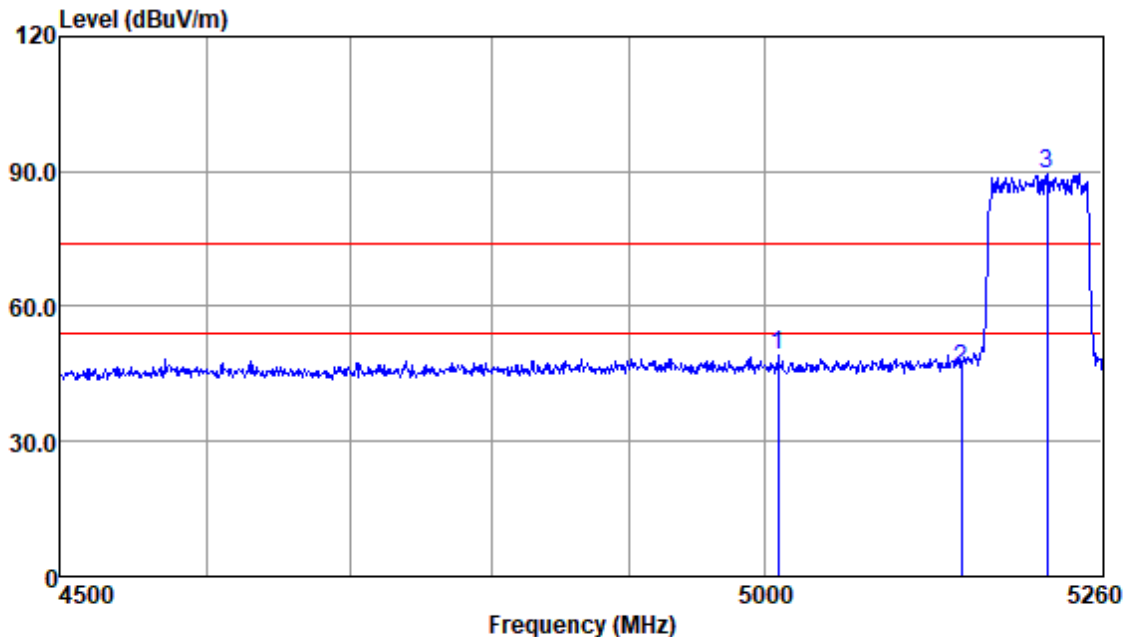


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5010.81	44.68	33.98	7.47	36.84	49.29	74.00	-24.71	Peak
5150.00	41.11	34.13	7.48	36.88	45.84	74.00	-28.16	Peak
5216.68	84.81	34.19	7.48	36.90	89.58	74.00	15.58	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

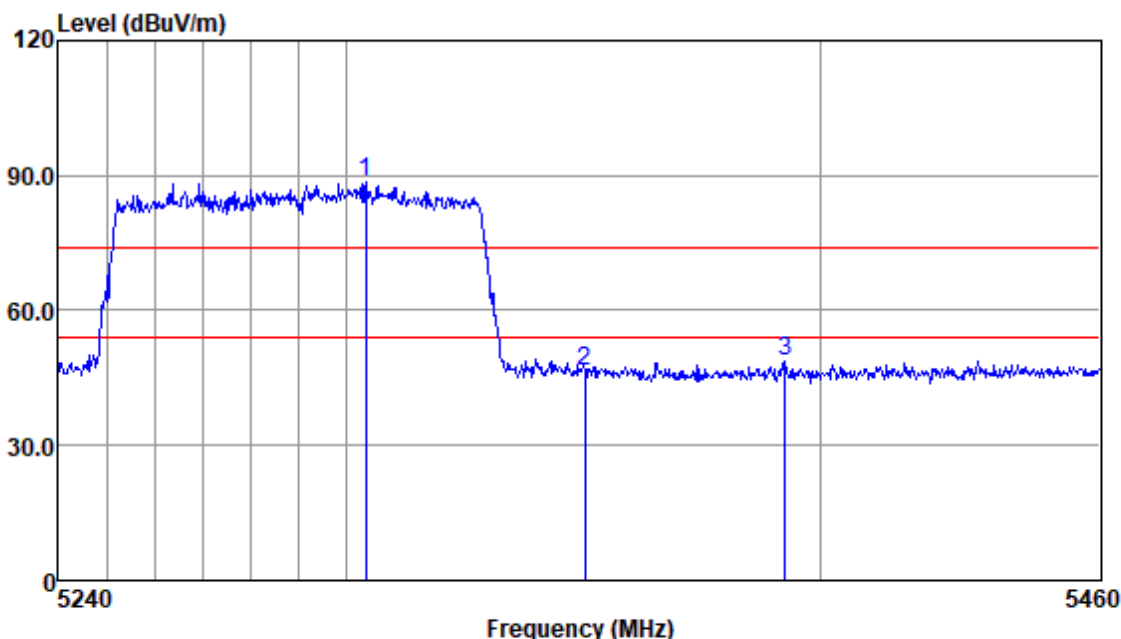


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5303.96	83.37	34.52	7.48	36.92	88.45	74.00	14.45	Peak
5350.00	41.45	34.71	7.49	36.94	46.71	74.00	-27.29	Peak
5392.38	43.27	34.69	7.49	36.95	48.50	74.00	-25.50	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

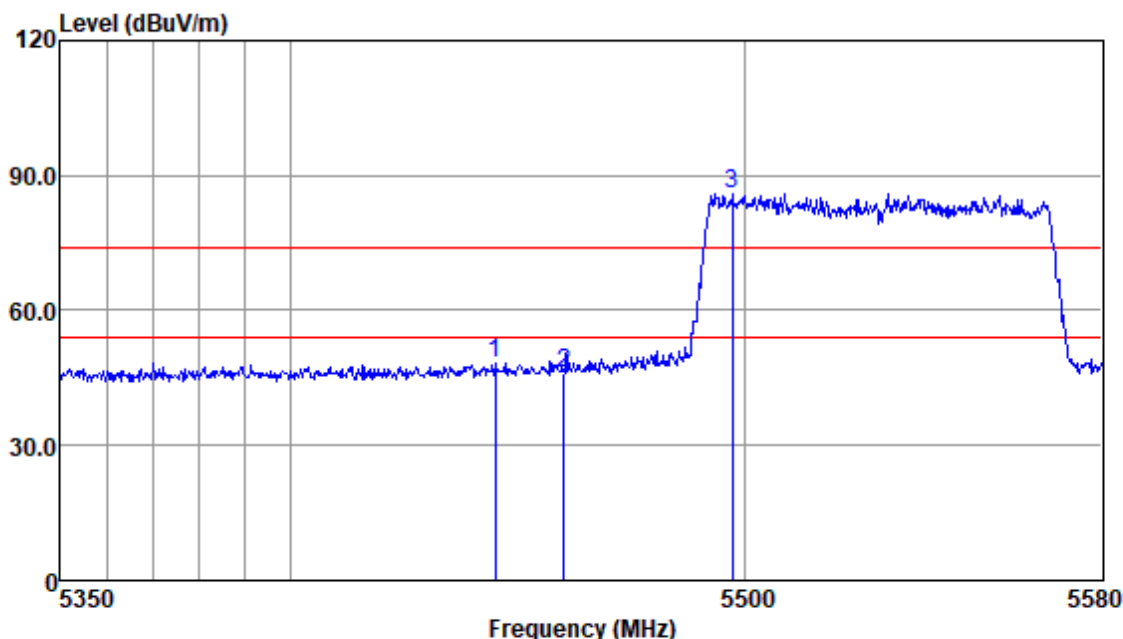


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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5444.73	42.96	34.65	7.49	36.96	48.14	74.00	-25.86	Peak
5460.00	40.96	34.64	7.49	36.97	46.12	74.00	-27.88	Peak
5497.24	80.89	34.69	7.49	36.98	86.09	74.00	12.09	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

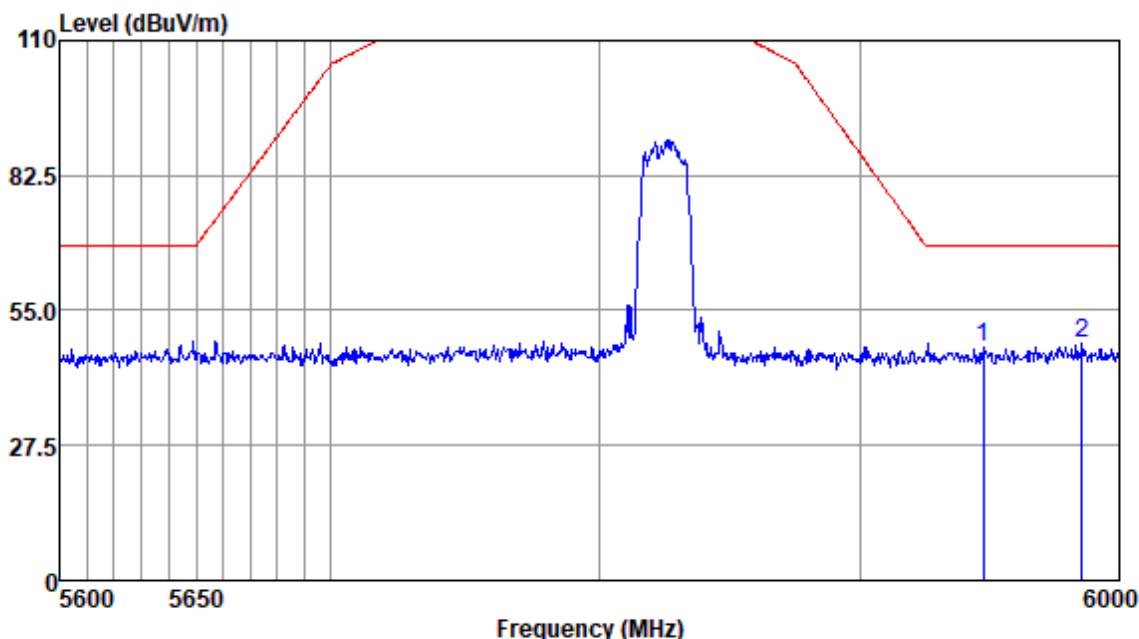


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5947.25	41.74	35.26	7.51	37.05	47.46	68.20	-20.74	Peak
5985.53	42.40	35.26	7.52	37.06	48.12	68.20	-20.08	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

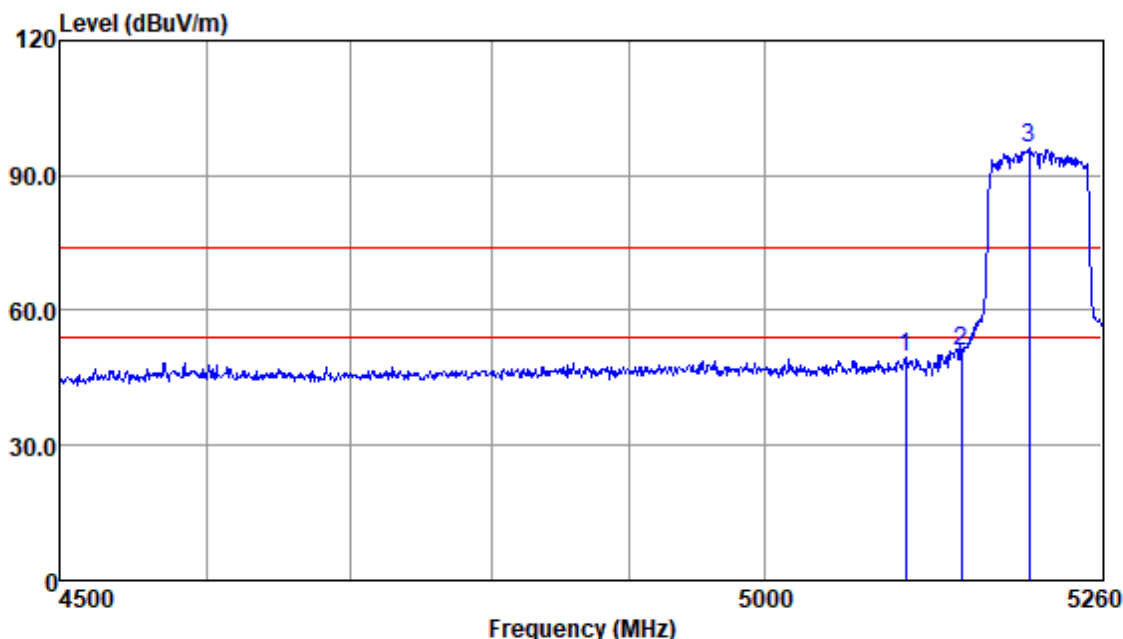


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Test Mode: 01; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5107.13	44.80	34.14	7.47	36.87	49.54	74.00	-24.46	Peak
5150.00	46.40	34.13	7.48	36.88	51.13	74.00	-22.87	Peak
5202.85	91.22	34.16	7.48	36.90	95.96	74.00	21.96	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor

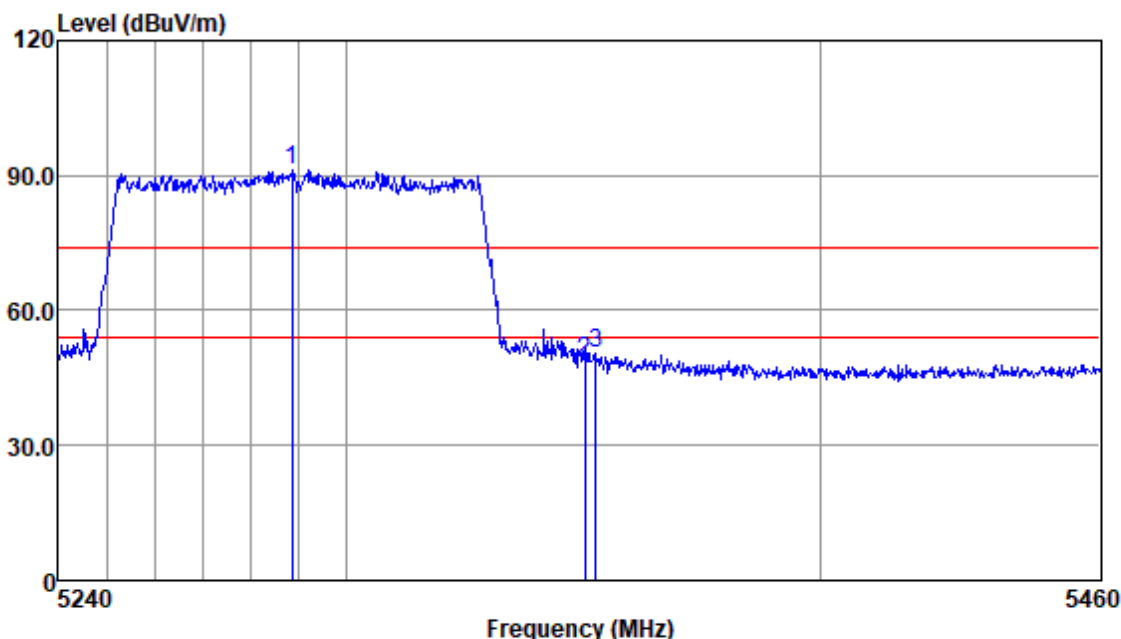


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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5288.50	86.21	34.43	7.48	36.92	91.20	74.00	17.20	Peak
5350.00	43.45	34.71	7.49	36.94	48.71	74.00	-25.29	Peak
5352.39	45.13	34.71	7.49	36.94	50.39	74.00	-23.61	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamplifier Factor



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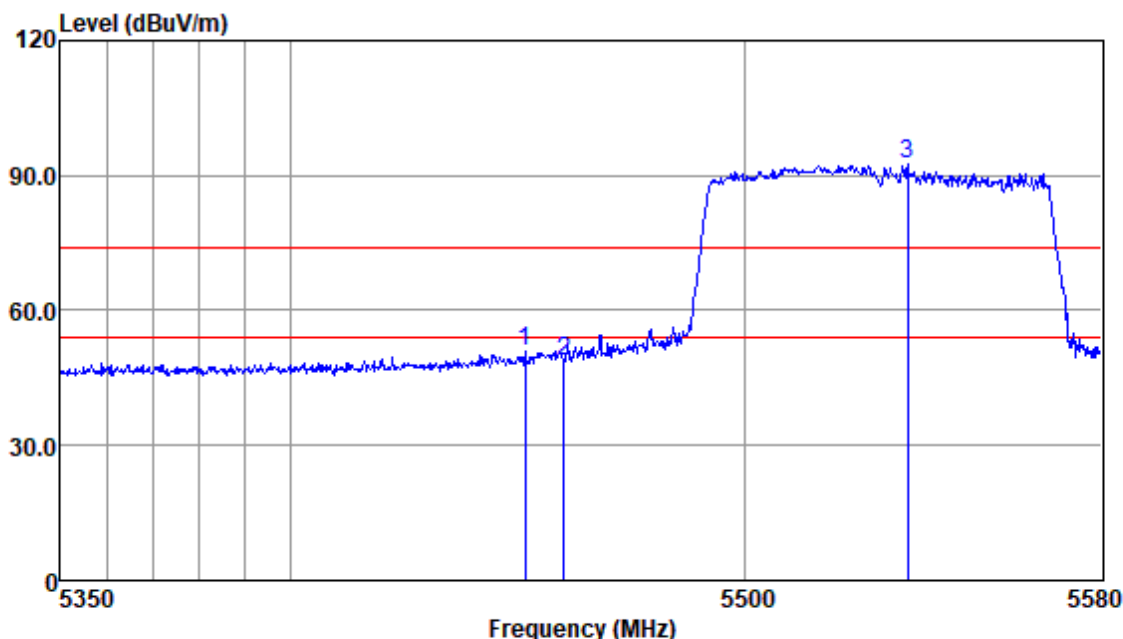
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5451.39	45.59	34.64	7.49	36.97	50.75	74.00	-23.25	Peak
5460.00	43.68	34.64	7.49	36.97	48.84	74.00	-25.16	Peak
5536.25	87.41	34.69	7.49	36.99	92.60	74.00	18.60	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

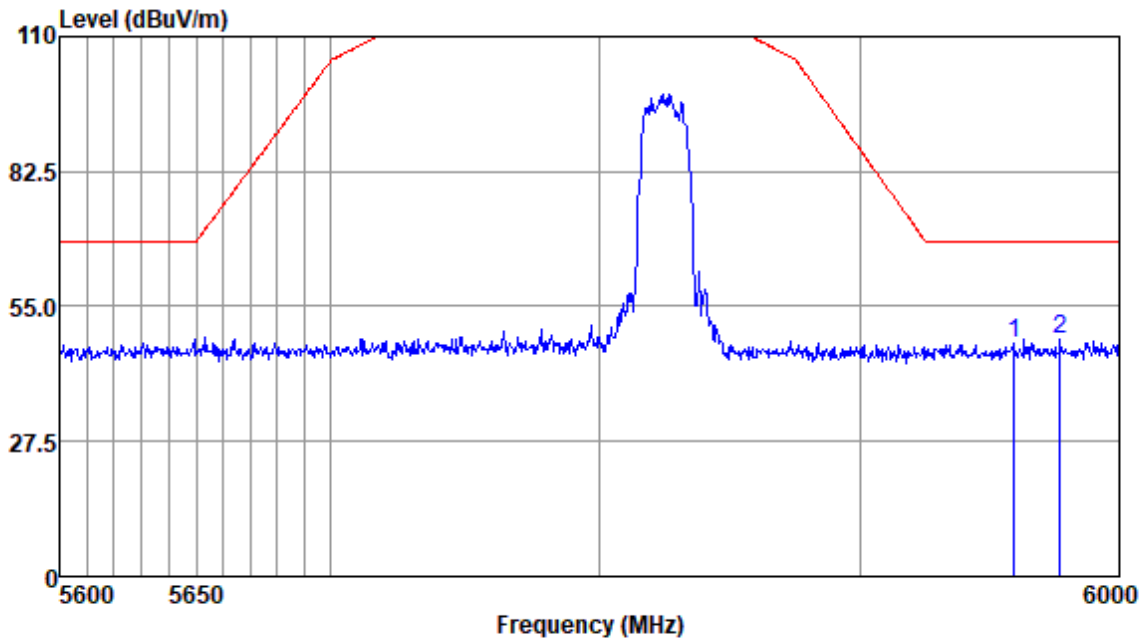


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5959.16	41.69	35.26	7.51	37.05	47.41	68.20	-20.79	Peak
5976.86	42.75	35.26	7.52	37.06	48.47	68.20	-19.73	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

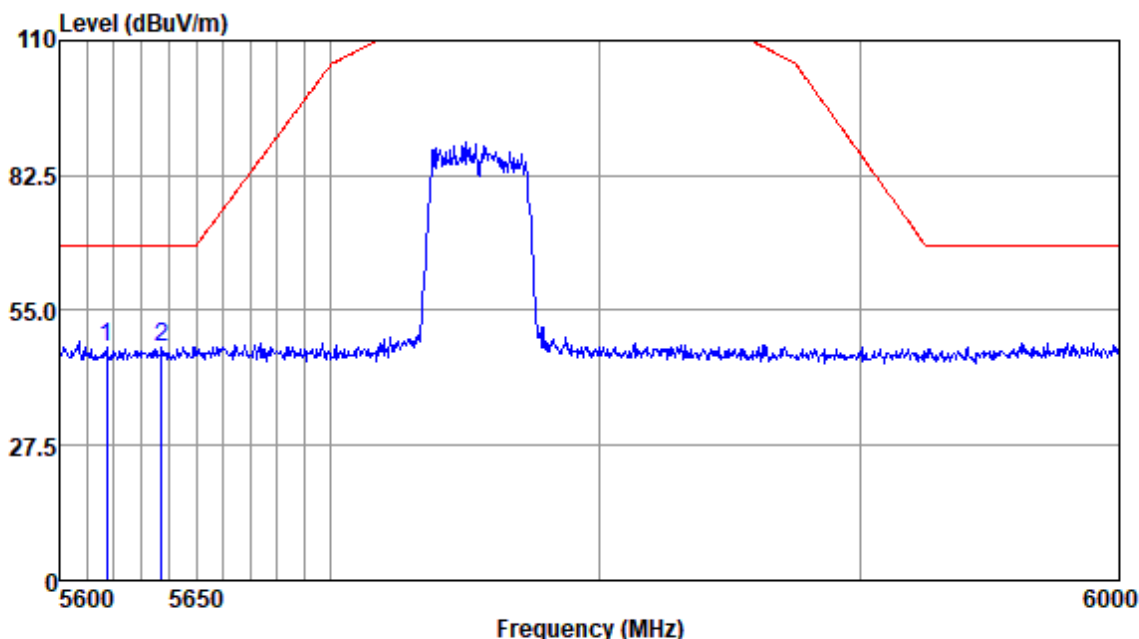


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5617.41	41.95	34.87	7.50	37.00	47.32	68.20	-20.88	Peak
5637.21	42.25	34.90	7.50	37.00	47.65	68.20	-20.55	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



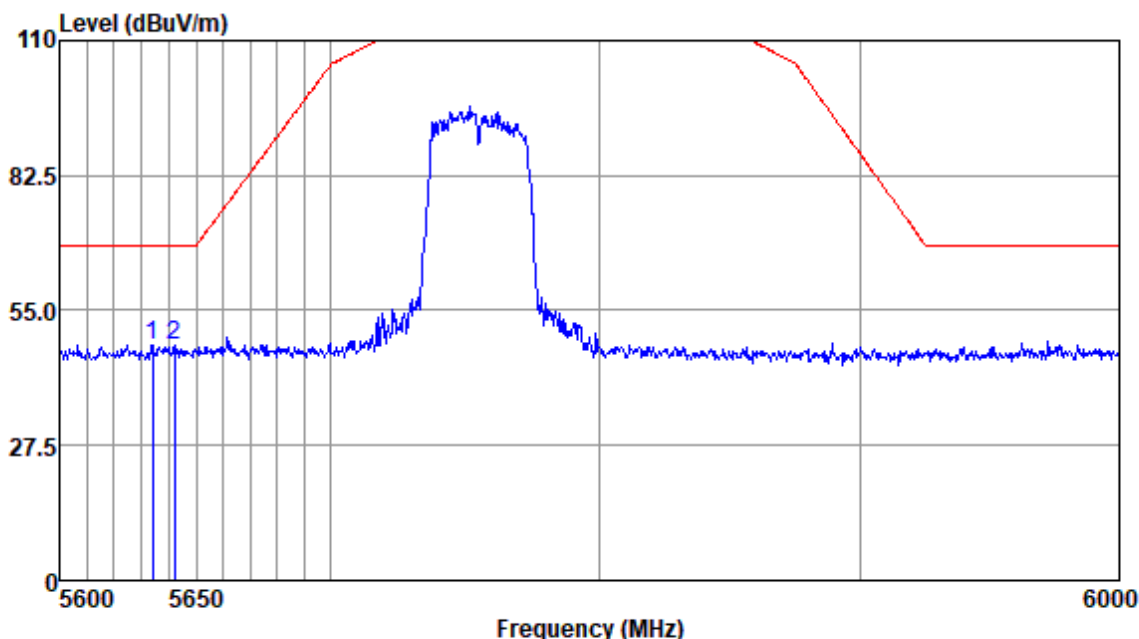
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5634.10	42.50	34.90	7.50	37.00	47.90	68.20	-20.30	Peak
5642.27	42.49	34.94	7.50	37.00	47.93	68.20	-20.27	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

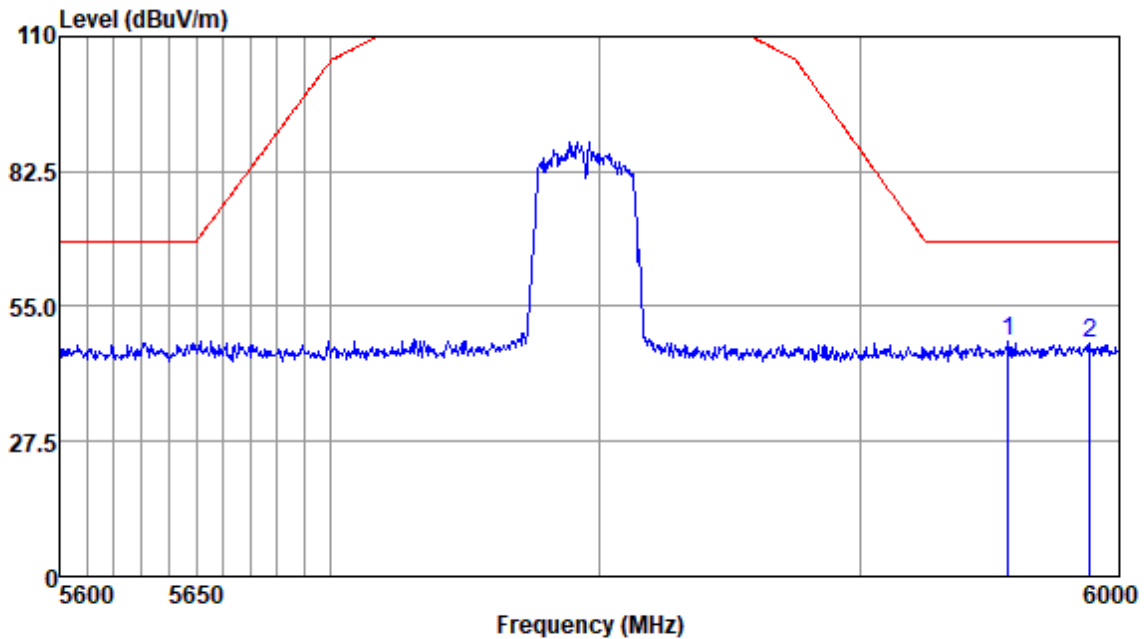


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5956.69	42.29	35.26	7.51	37.05	48.01	68.20	-20.19	Peak
5988.42	41.66	35.26	7.52	37.06	47.38	68.20	-20.82	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

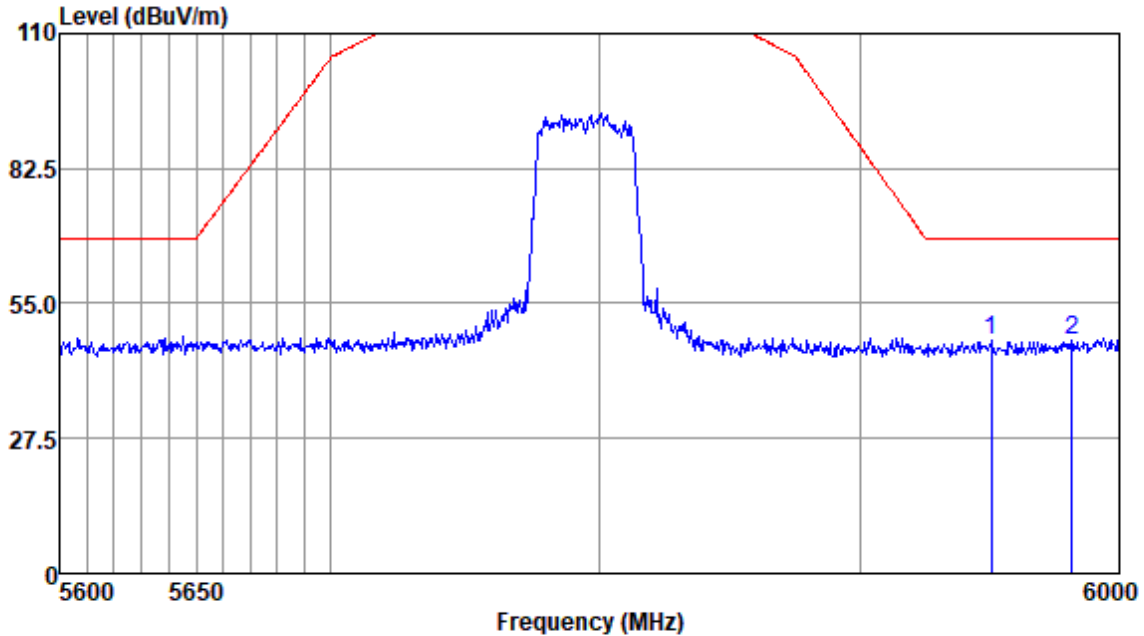


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5950.12	41.82	35.26	7.51	37.05	47.54	68.20	-20.66	Peak
5981.40	41.77	35.26	7.52	37.06	47.49	68.20	-20.71	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

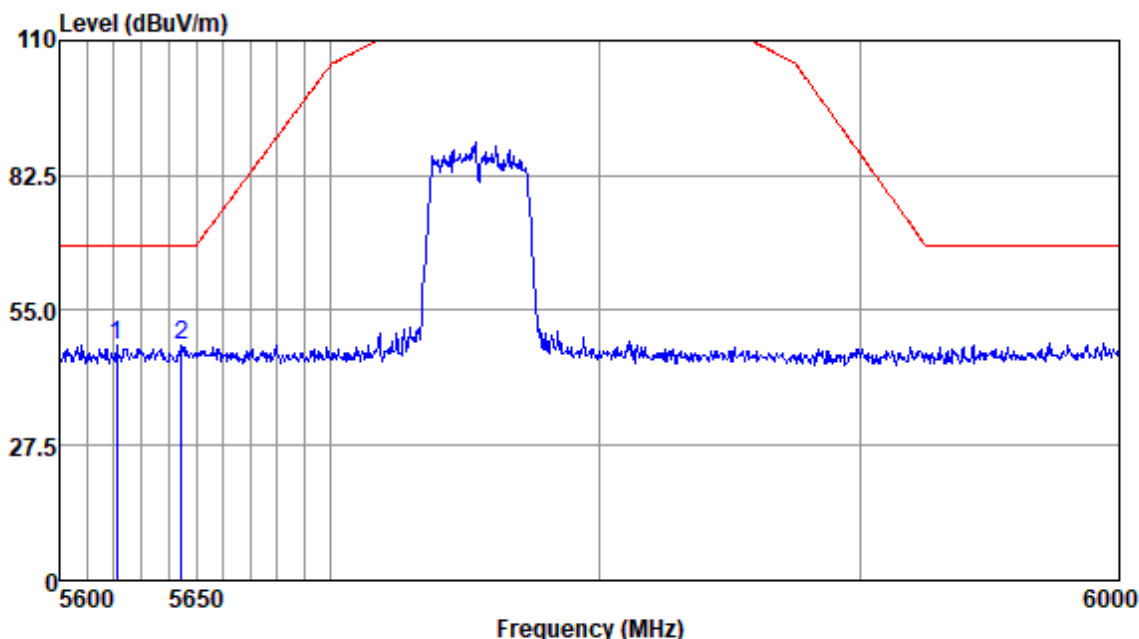


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5620.90	42.43	34.87	7.50	37.00	47.80	68.20	-20.40	Peak
5644.61	42.33	34.94	7.50	37.00	47.77	68.20	-20.43	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

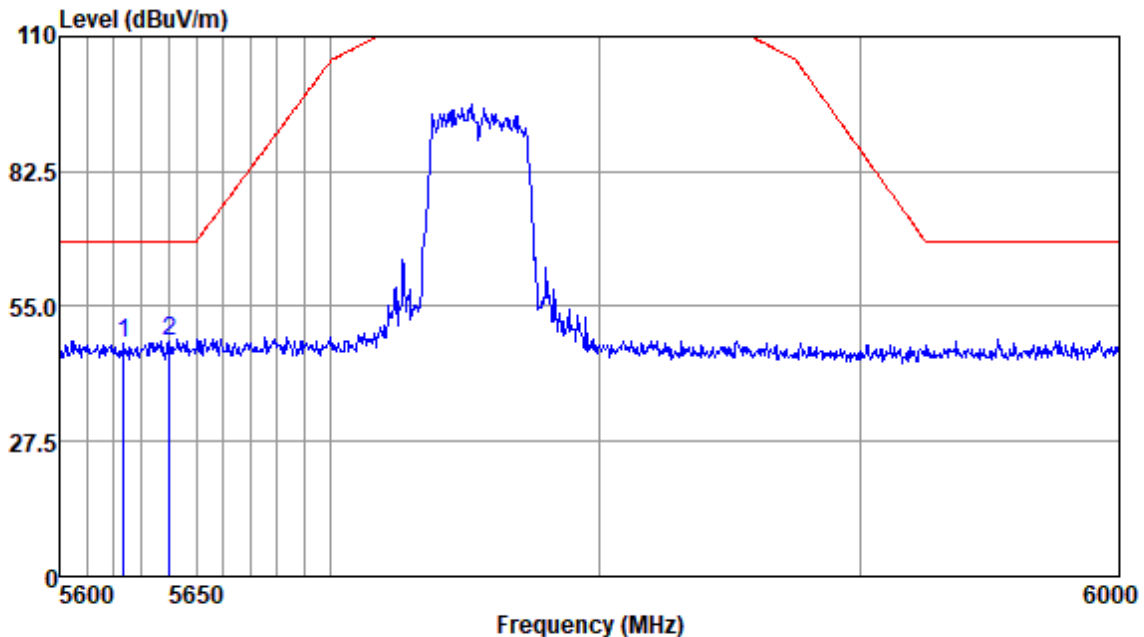


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5623.62	42.10	34.87	7.50	37.00	47.47	68.20	-20.73	Peak
5640.33	42.60	34.94	7.50	37.00	48.04	68.20	-20.16	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

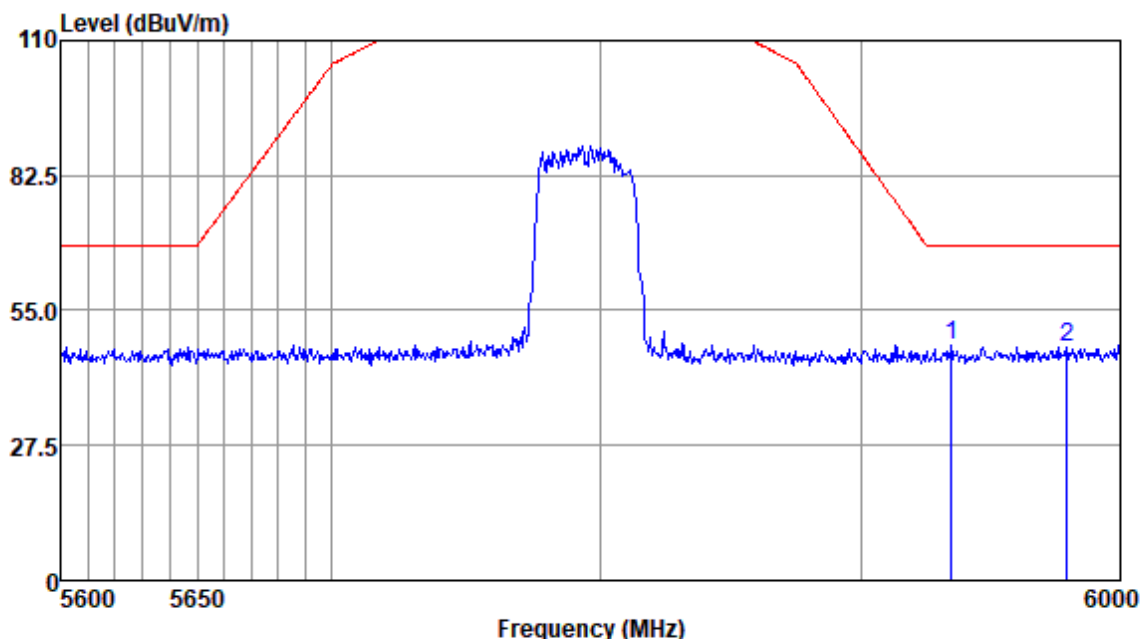


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5934.54	42.04	35.27	7.51	37.05	47.77	68.20	-20.43	Peak
5979.34	41.83	35.26	7.52	37.06	47.55	68.20	-20.65	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

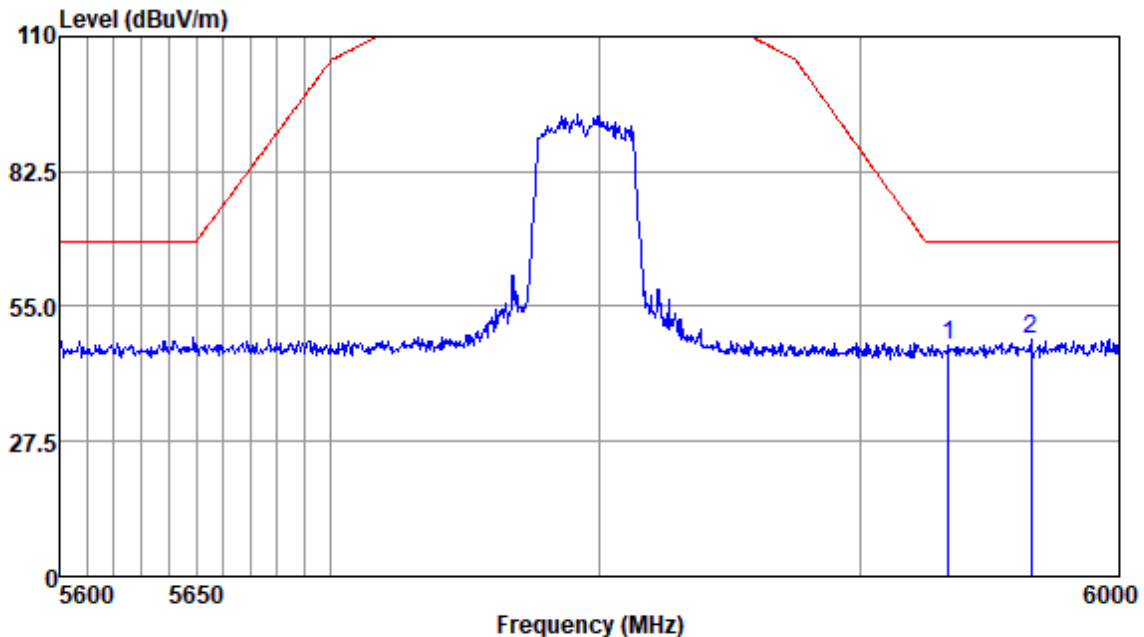


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5933.72	41.47	35.27	7.51	37.05	47.20	68.20	-21.00	Peak
5965.74	42.59	35.26	7.51	37.05	48.31	68.20	-19.89	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

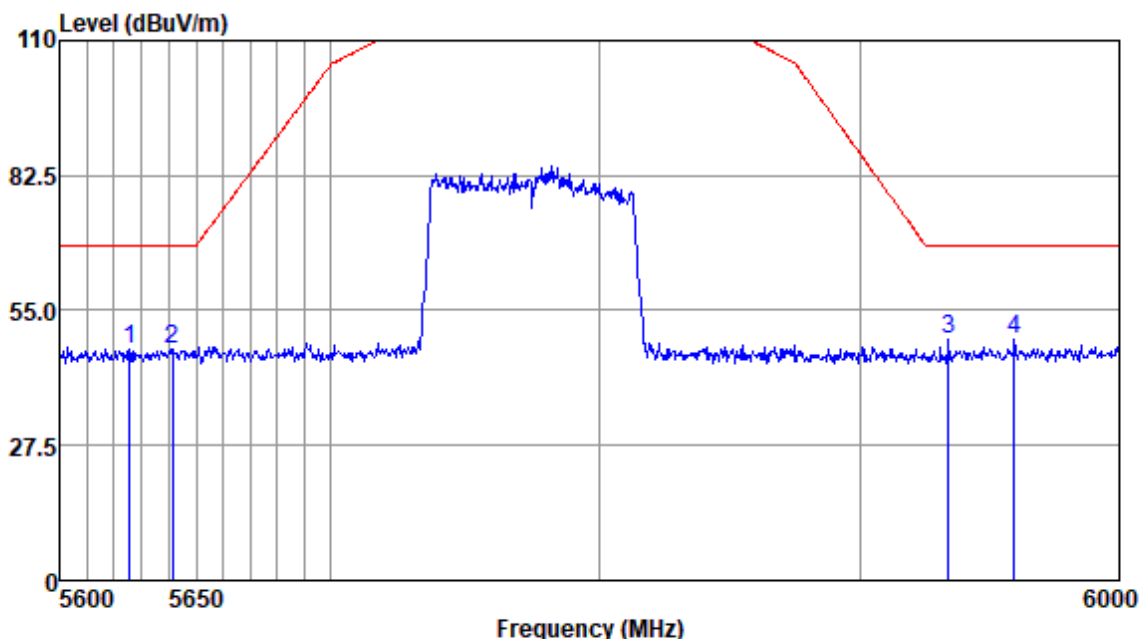


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5625.56	41.79	34.90	7.50	37.00	47.19	68.20	-21.01	Peak
5641.49	41.77	34.94	7.50	37.00	47.21	68.20	-20.99	Peak
5933.72	43.22	35.27	7.51	37.05	48.95	68.20	-19.25	Peak
5959.16	43.44	35.26	7.51	37.05	49.16	68.20	-19.04	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor

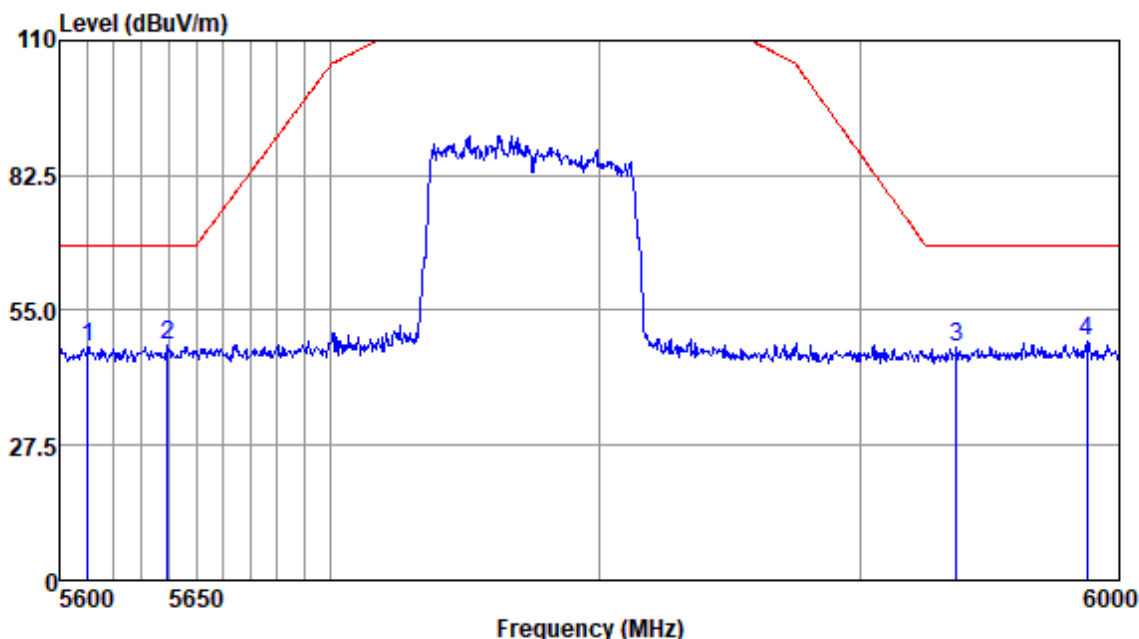


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5610.44	42.20	34.87	7.50	37.00	47.57	68.20	-20.63	Peak
5639.55	42.48	34.90	7.50	37.00	47.88	68.20	-20.32	Peak
5936.59	41.87	35.27	7.51	37.05	47.60	68.20	-20.60	Peak
5987.18	42.79	35.26	7.52	37.06	48.51	68.20	-19.69	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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7.10 Frequency Stability

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

Test Method: ANSI C63.10 (2013) Section 6.8

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



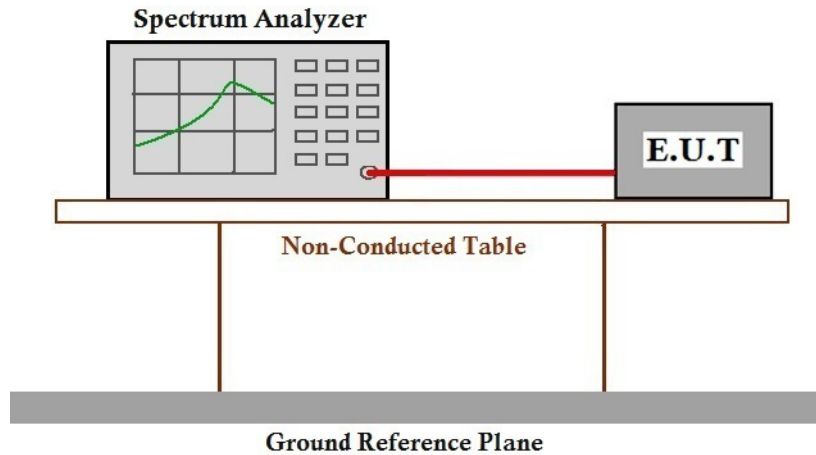
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.11 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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C

Humidity: 55.5 % RH

Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found



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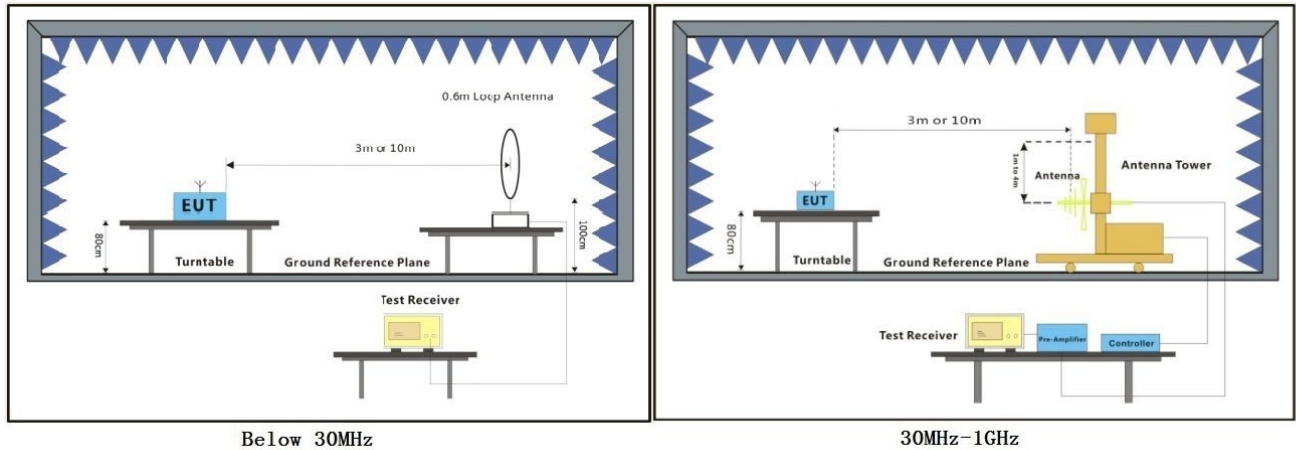
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		the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



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7.11.4 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.
5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



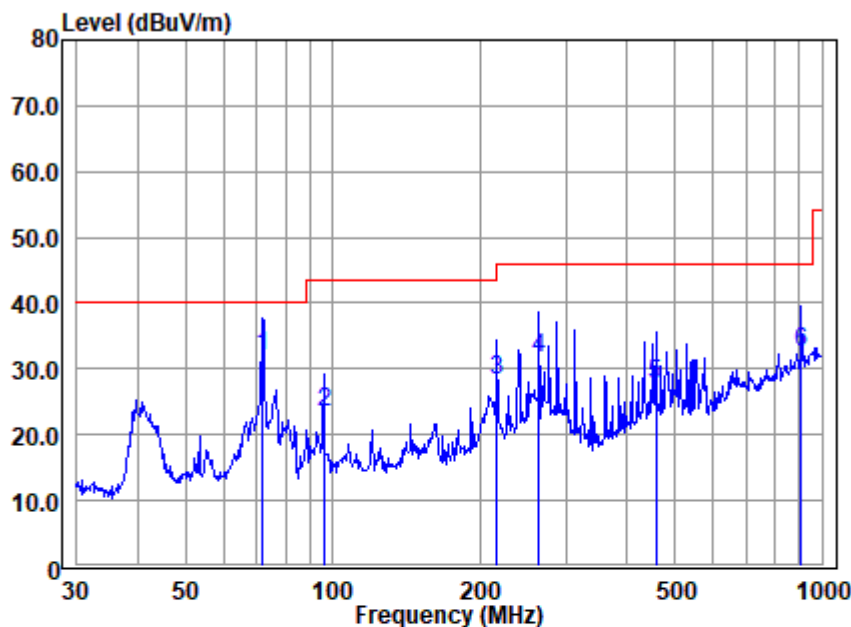
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Test Mode: 01; Polarity: Horizontal



Antenna Polarity :Horizontal
EUT/Project :01448AT
Test mode :01

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	71.90	50.45	11.09	2.05	31.80	31.79	40.00	-8.21	QP
2	96.06	44.39	8.47	2.30	31.88	23.28	43.50	-20.22	QP
3	216.61	47.39	9.92	3.65	32.55	28.41	46.00	-17.59	QP
4	264.09	48.05	12.27	4.13	32.73	31.72	46.00	-14.28	QP
5	457.21	38.77	17.15	5.36	33.59	27.69	46.00	-18.31	QP
6	907.96	31.12	23.72	7.52	29.84	32.52	46.00	-13.48	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

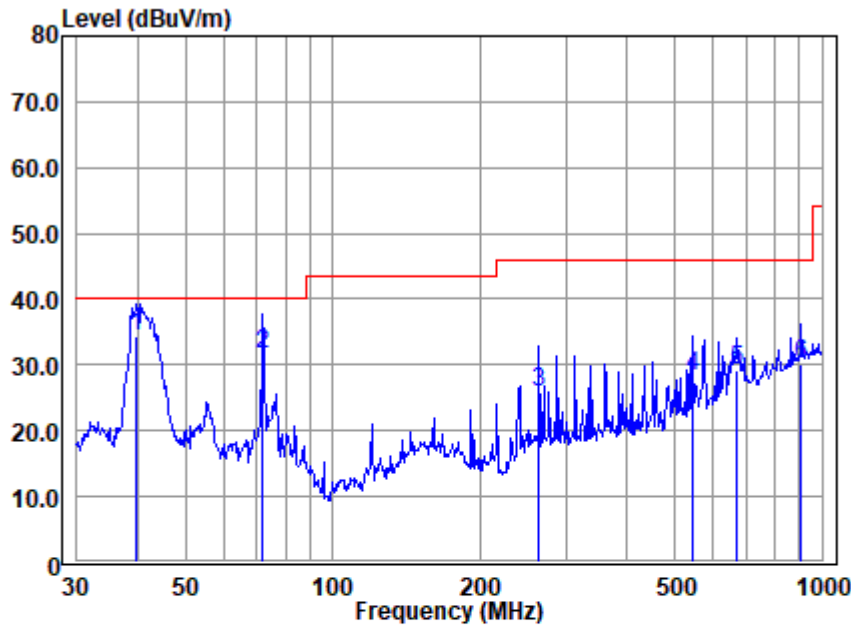


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Test Mode: 01; Polarity: Vertical



Antenna Polarity :Vertical
EUT/Project :01448AT
Test mode :01

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.67	51.28	13.16	1.69	31.80	34.33	40.00	-5.67	QP
2	71.90	50.32	11.09	2.05	31.80	31.66	40.00	-8.34	QP
3	264.09	42.31	12.27	4.13	32.73	25.98	46.00	-20.02	QP
4	543.44	37.41	18.64	5.85	33.64	28.26	46.00	-17.74	QP
5	672.74	33.59	20.65	6.52	31.54	29.22	46.00	-16.78	QP
6	907.96	28.79	23.72	7.52	29.84	30.19	46.00	-15.81	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2208001448AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2208001448AT

- End of the Report -



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