TEST REPORT

Application No.:	KSCR2207001264AT
FCC ID:	2AXVM-TP22-XXXX
IC:	26572-HMTP22
Applicant:	Hangzhou Microimage Software Co.,Ltd
Address of Applicant:	Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict,Binjiang District, Hangzhou, Zhejiang
Manufacturer:	Hangzhou Microimage Software Co.,Ltd
Address of Manufacturer:	Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict,Binjiang District, Hangzhou, Zhejiang
Factory:	Hangzhou Microimage Intelligent Technology Co., Ltd.
Address of Factory:	Floor 2, Building A1, 299 Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou City, Zhejiang Province
Equipment Under Test (EUT):	
EUT Name:	Handheld Thermography Camera
Model No.:	HM-TP22-7QF/W-M20,HM-TP22-3AQF/W-M20W, M31,M21,M11,M41,M61,M31H,M21H,M11H,M41H,M61H,HM-TP26-25QF/W-M60,M40,M10H,M20H,M30H,M40H,M60H♣
For IC Model:	HM-TP22-7QF/W-M20,HM-TP22-3AQF/W-M20W
♣	Please refer to section 3 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	Hikmicro
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:	2022-07-21
Date of Test:	2022-08-03 to 2022-08-08
Date of Issue:	2022-09-04
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin
Laboratory Manager

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Revision Record			
Version	**Description**	***Date***	***Remark***
00	Original	*2022-09-04*	/

Authorized for issue by:				
		Tommie Tang **Tommie_Tang/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 C 15.207 & Subpart E 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 (Below 1GHz)	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions (Above 1GHz)	47 CFR Part 15, Subpart C 15.209 & Subpart E 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 C 15.209 & Subpart E 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 Identical in electrical and electronic characters. Only the model HM-TP22-7QF/W-M20 was tested since their differences were the model number.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V by USB or DC 3.7V by rechargeable Li-ion battery Battery Model: E097-13-1S1P26650 Voltage: 3.7V Capacity: 5Ah Energy: 18.5Wh Test Voltage: AC 120V/60Hz				
Serial Number:	462912675				
Firmware Version:	V5.5.35 build 220711				
Cable(s):	1*USB Cable				
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels	
				FCC	IC
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4	4
		802.11n(HT40)/ac(VHT40)	5190-5230	2	2
		802.11ac(VHT80)	5210	1	1
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4	4
		802.11n(HT40)/ac(VHT40)	5270-5310	2	2
		802.11ac(VHT80)	5290	1	1
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5700	11	8
		802.11n(HT40)/ac(VHT40)	5510-5670	5	3
		802.11ac(VHT80)	5530~5610	2	1
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2	2
		802.11ac(VHT80)	5775	1	1
Moudulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)				
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7 802.11ac: MCS0-9				
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz; 802.11n(HT40)/ac(VHT40): 40MHz; 802.11ac(VHT80): 80MHz				
DFS Function:	Slave without Radar detection				
Antenna Type:	FPC Antenna				
Antenna Gain:	5150-5250MHz: 0.05dBi, (Provided by the manufacturer) 5250-5350MHz: 0.35dBi, (Provided by the manufacturer) 5470-5725MHz: 1.79dBi, (Provided by the manufacturer) 5725-5850MHz: 1.3dBi, (Provided by the manufacturer)				

Remark: Frequencies 5600-5650MHz will not be used in Canada.

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4.2 Power level setting using in test:

Channel	802.11a	802.11n(HT20)	802.11ac(VHT20)
	Ant 1	Ant 1	Ant 1
36	10	10	10
40	10	10	10
48	10	10	10
52	10	10	10
60	10	10	10
64	10	10	10
100	10	10	10
116	10	10	10
140	10	10	10
149	10	10	10
157	10	10	10
165	10	10	10

Channel	802.11n(HT40)	802.11ac(VHT40)
	Ant 1	Ant 1
38	10	10
46	10	10
54	10	10
62	10	10
102	10	10
110	10	10
134	10	10
149	10	10
151	10	10
159	10	10

Channel	802.11ac(VHT80)
	Ant 1
42	10
58	10
106	10
155	10

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4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/

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-18GHz)
		5.4dB (Above 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:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

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

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/14/2021	11/13/2022
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	10/11/2021	10/10/2022
2	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	09/17/2021	09/16/2022
4	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
5	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
6	Signal Generator	R&S	SMW200A	KSEM020-1	10/12/2021	10/11/2022
7	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
8	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
9	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/27/2021	08/26/2022
10	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
11	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	09/23/2021	09/22/2022
12	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
13	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
14	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	10/12/2021	10/11/2022
15	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
16	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
17	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
18	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
19	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
20	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
21	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
22	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Spectrum Analyzer	R&S	FSV40	KUS1806E003	10/11/2021	10/10/2022
3	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
4	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
5	Signal Generator	Agilent	E8257C	KS301066	10/18/2021	10/17/2022
6	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
7	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
8	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
9	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024

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10	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
11	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
12	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
13	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
14	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
16	Software	Faratronic	EZ_EMC-v 3A1	/	N/A	N/A

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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:

he antenna is FPC antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.05dBi for 5150-5250MHz, 0.35dBi for 5250-5350MHz, 1.79dBi for 5470-5725MHz, 1.3dBi for 5725-5850MHz.

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(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C Humidity: 42.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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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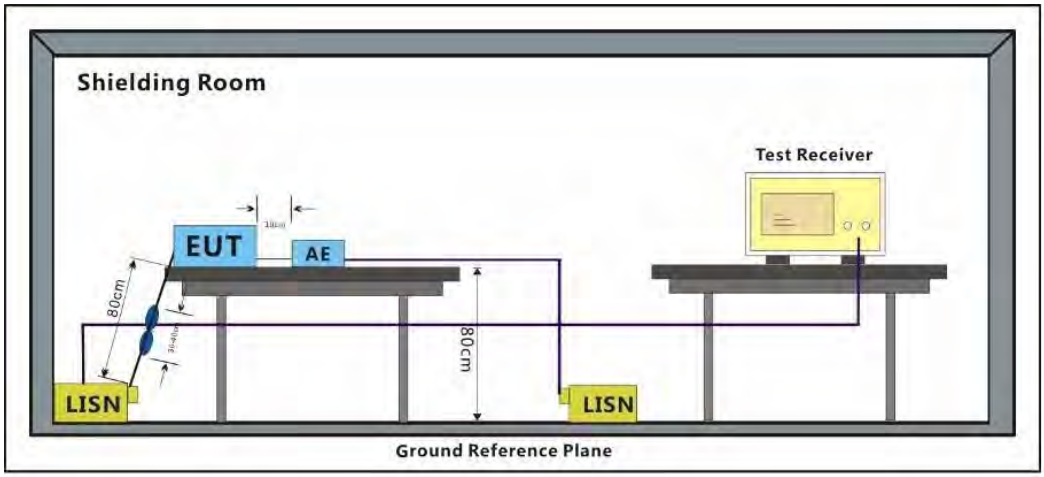
Final test	04	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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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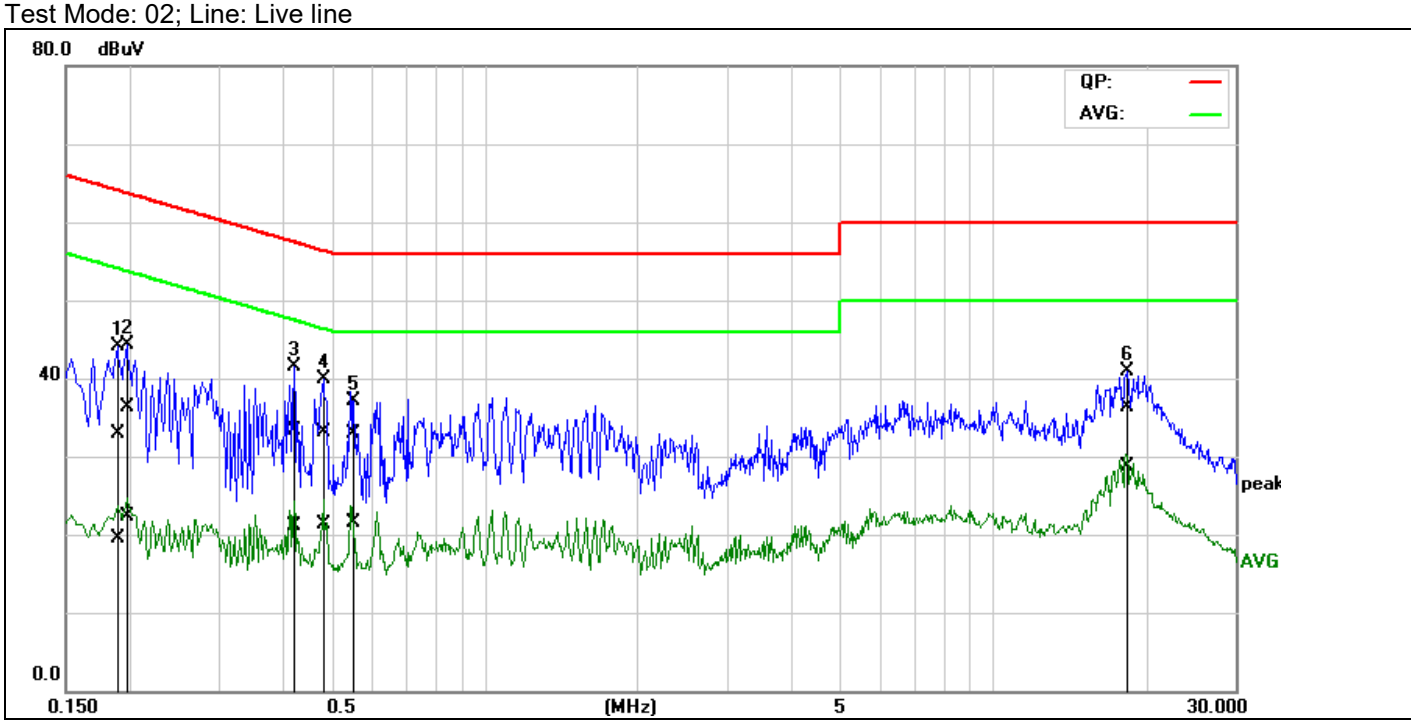
Test Mode: 02; Line: Live line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1903	13.48	-0.07	19.50	32.98	19.43	64.02	54.02	-31.04	-34.59	Pass
2	0.1969	16.86	2.87	19.50	36.36	22.37	63.74	53.74	-27.38	-31.37	Pass
3	0.4175	13.79	1.56	19.54	33.33	21.10	57.50	47.50	-24.17	-26.40	Pass
4	0.4795	13.55	1.70	19.55	33.10	21.25	56.35	46.35	-23.25	-25.10	Pass
5	0.5511	13.34	1.91	19.56	32.90	21.47	56.00	46.00	-23.10	-24.53	Pass
6*	18.3439	15.97	8.42	20.32	36.29	28.74	60.00	50.00	-23.71	-21.26	Pass

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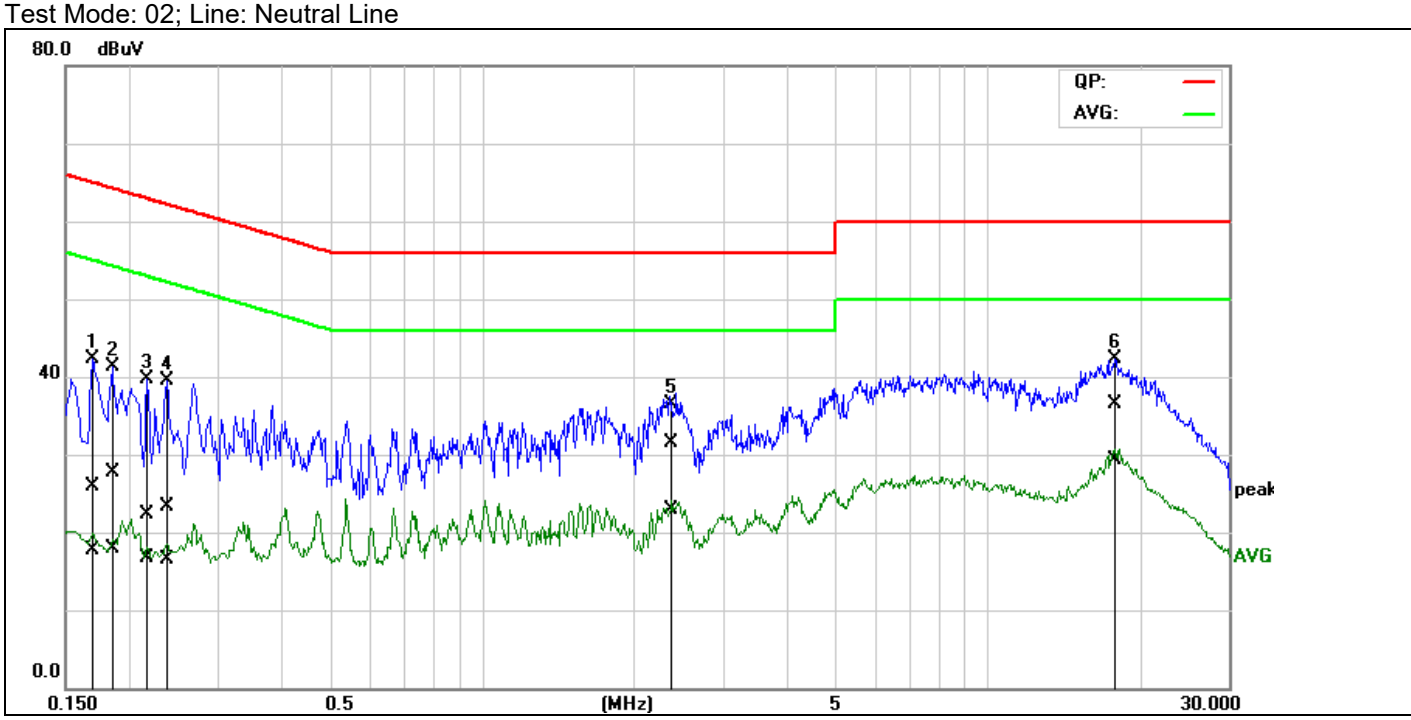
Test Mode: 02; Line: Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1669	6.40	-1.68	19.48	25.88	17.80	65.11	55.11	-39.23	-37.31	Pass
2	0.1874	8.15	-1.59	19.49	27.64	17.90	64.15	54.15	-36.51	-36.25	Pass
3	0.2167	2.77	-2.75	19.49	22.26	16.74	62.94	52.94	-40.68	-36.20	Pass
4	0.2389	3.79	-3.01	19.49	23.28	16.48	62.13	52.13	-38.85	-35.65	Pass
5	2.3817	11.86	3.33	19.67	31.53	23.00	56.00	46.00	-24.47	-23.00	Pass
6*	17.8530	16.24	8.94	20.29	36.53	29.23	60.00	50.00	-23.47	-20.77	Pass

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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: 26.7 °C Humidity: 42.6 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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

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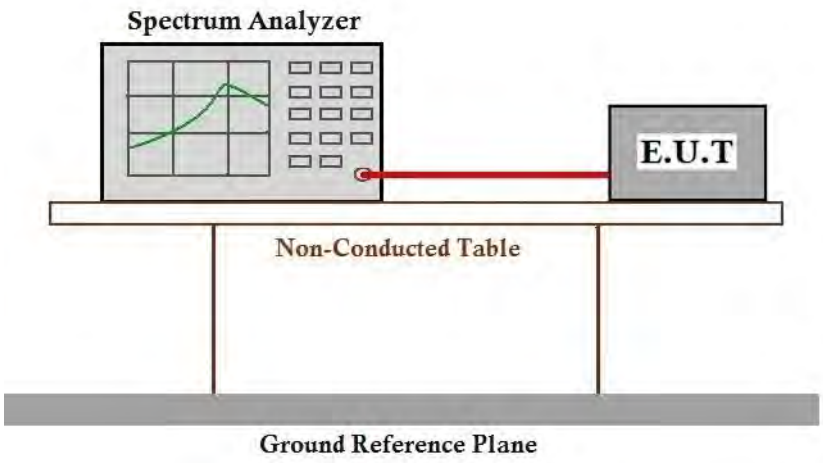
		of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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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: 26.7 °C Humidity: 42.6 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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

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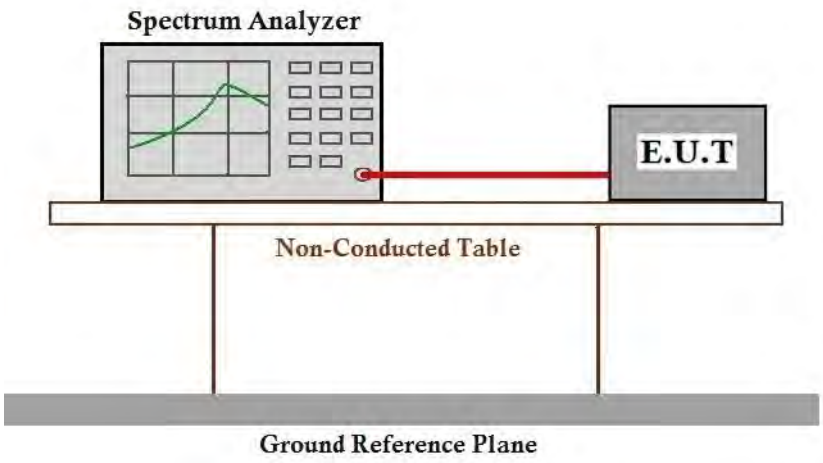
		of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220700126405

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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: 26.8 °C Humidity: 42.6 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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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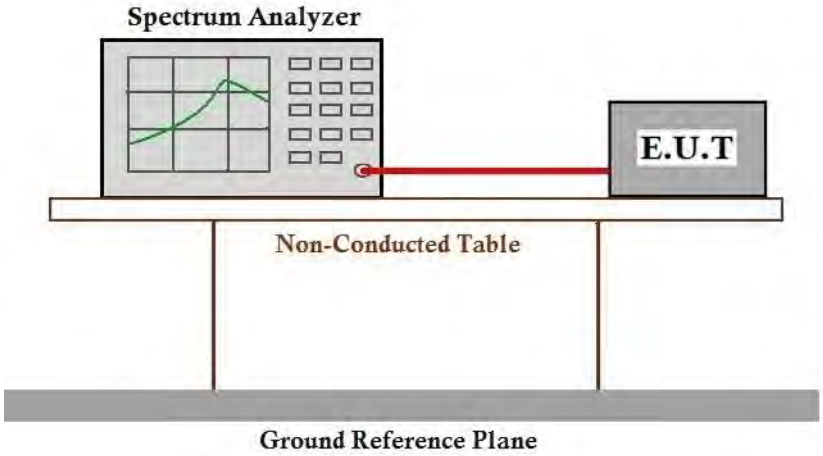
7.4.3 Test Setup Diagram



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

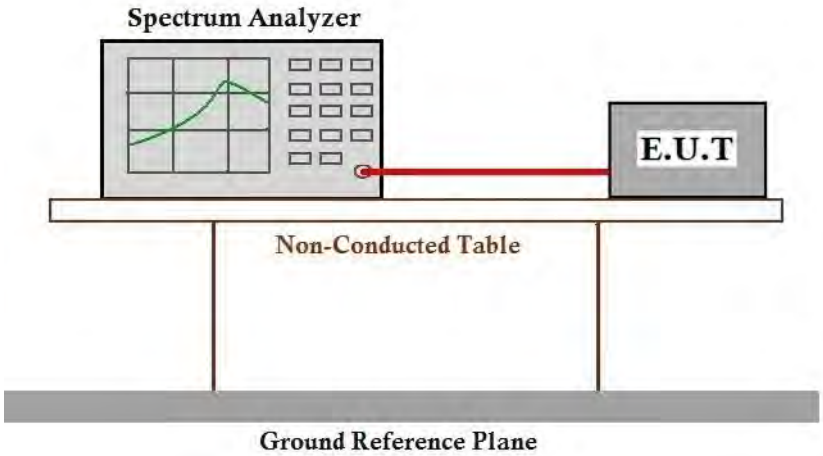
Operating Environment:

Temperature: 26.7 °C Humidity: 42.6 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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



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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: 26.7 °C Humidity: 42.6 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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),

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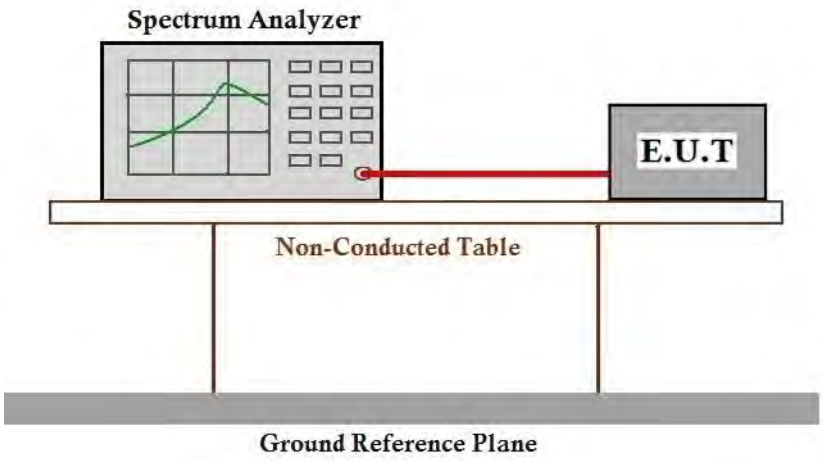
		final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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.

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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: 26.7 °C Humidity: 42.6 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type

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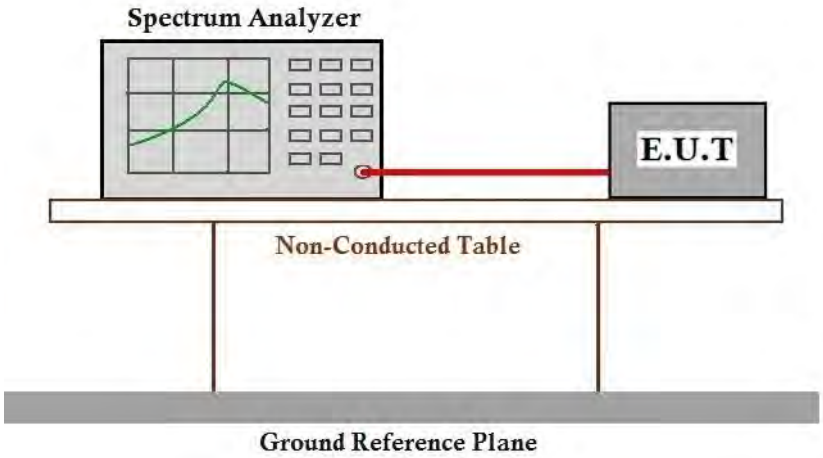
		have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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

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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: 21.3 °C Humidity: 51.0 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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

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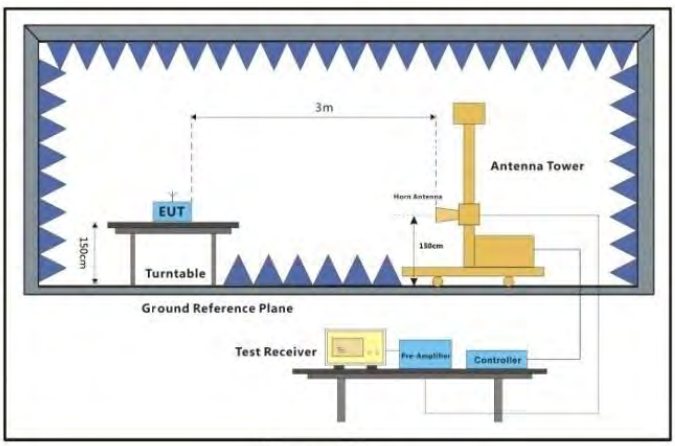
		802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode 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	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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



Above 1GHz

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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.

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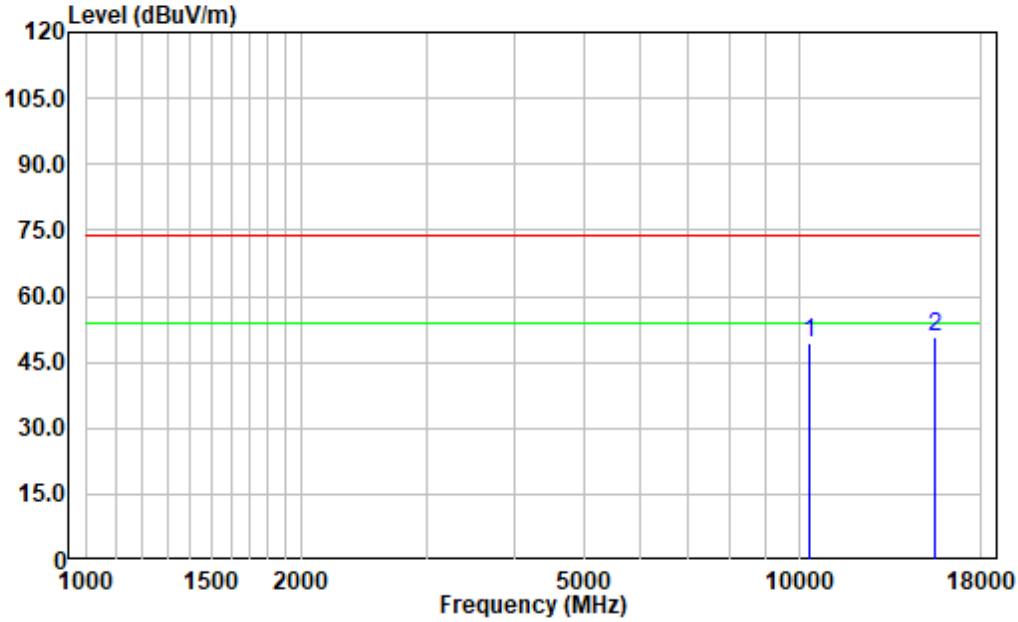
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10360.000	12.58	37.58	42.31	49.40	74.00	-24.60	Peak
2	15540.000	14.80	40.22	36.70	50.58	74.00	-23.42	Peak

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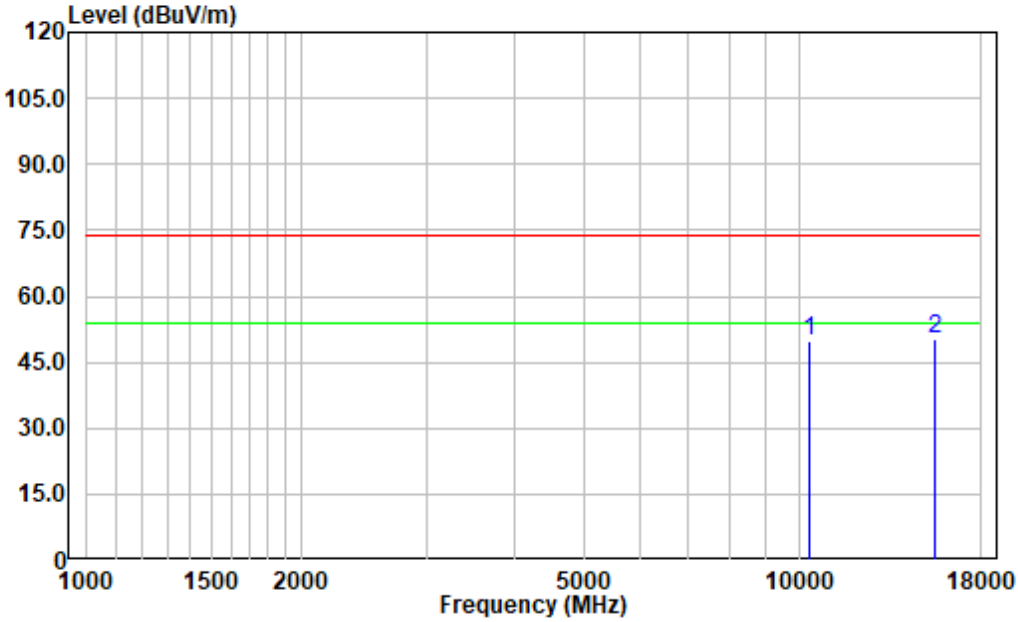
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10360.000	12.58	37.58	42.67	49.76	74.00	-24.24	Peak
2	15540.000	14.80	40.22	36.53	50.41	74.00	-23.59	Peak

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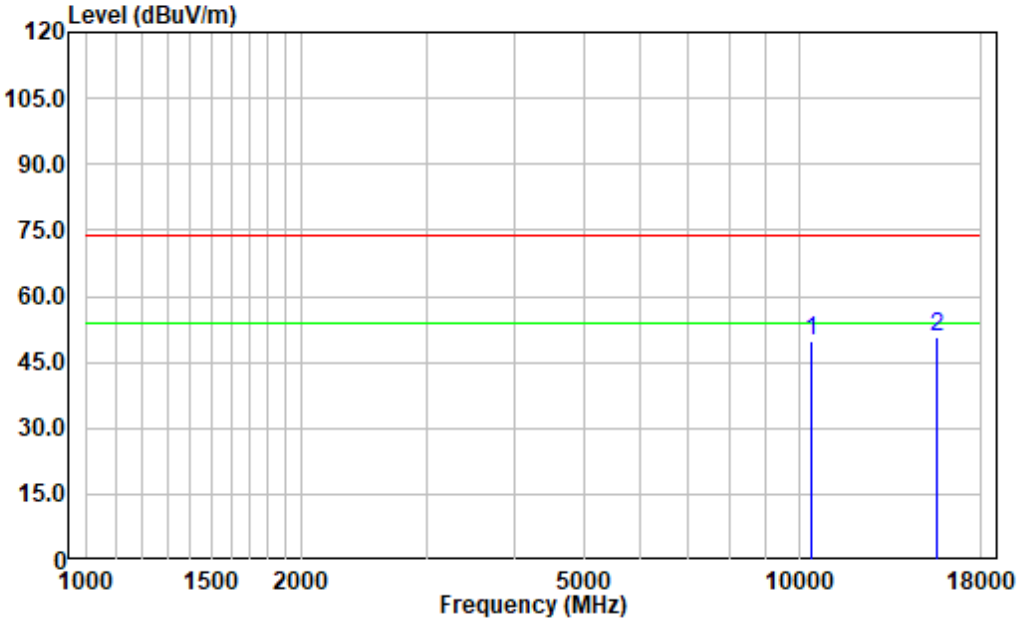
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10400.000	12.58	37.62	42.89	49.94	74.00	-24.06	Peak
2	15600.000	14.80	40.24	37.24	50.85	74.00	-23.15	Peak

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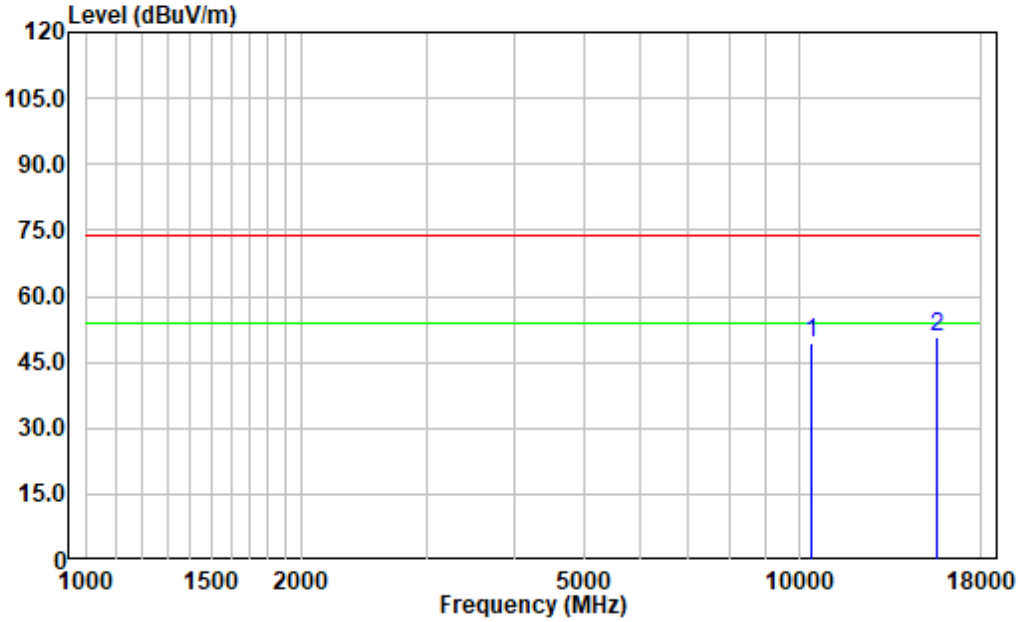
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10400.000	12.58	37.62	42.30	49.35	74.00	-24.65	Peak
2	15600.000	14.80	40.24	37.07	50.68	74.00	-23.32	Peak

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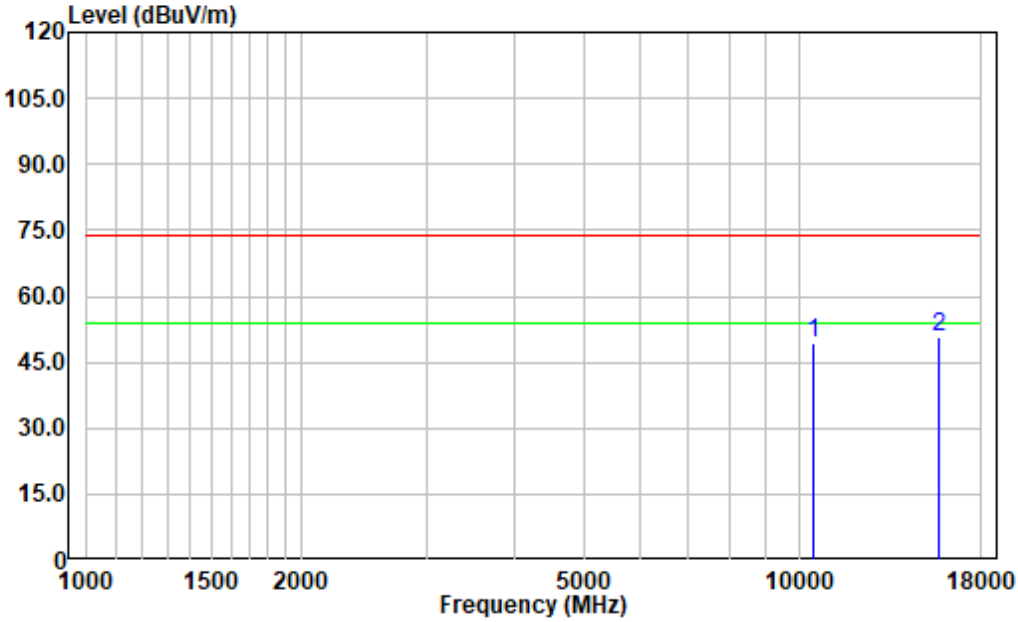
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10480.000	12.60	37.69	42.03	49.49	74.00	-24.51	Peak
2	15720.000	14.81	40.29	35.53	50.55	74.00	-23.45	Peak

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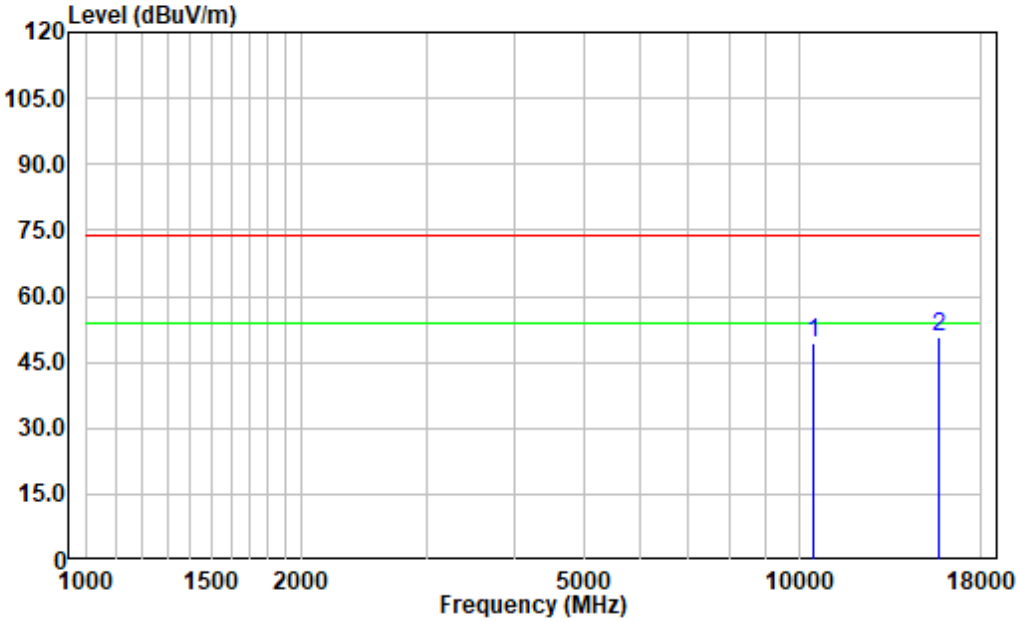
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10480.000	12.60	37.69	41.84	49.30	74.00	-24.70	Peak
2	15720.000	14.81	40.29	35.51	50.53	74.00	-23.47	Peak

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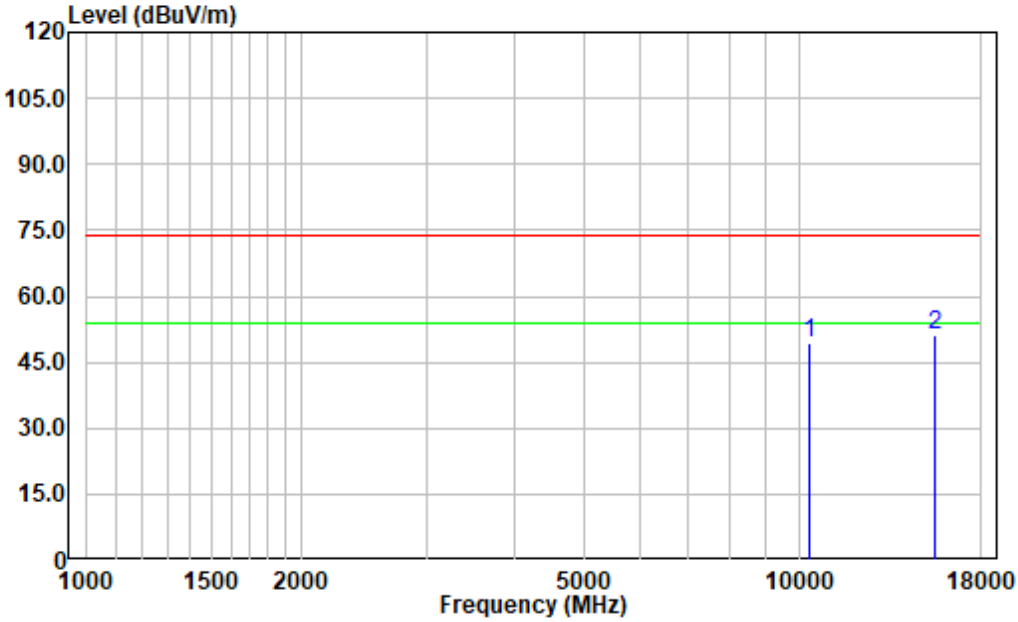
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10360.000	12.58	37.58	42.44	49.53	74.00	-24.47	Peak
2	15540.000	14.80	40.22	37.10	50.98	74.00	-23.02	Peak

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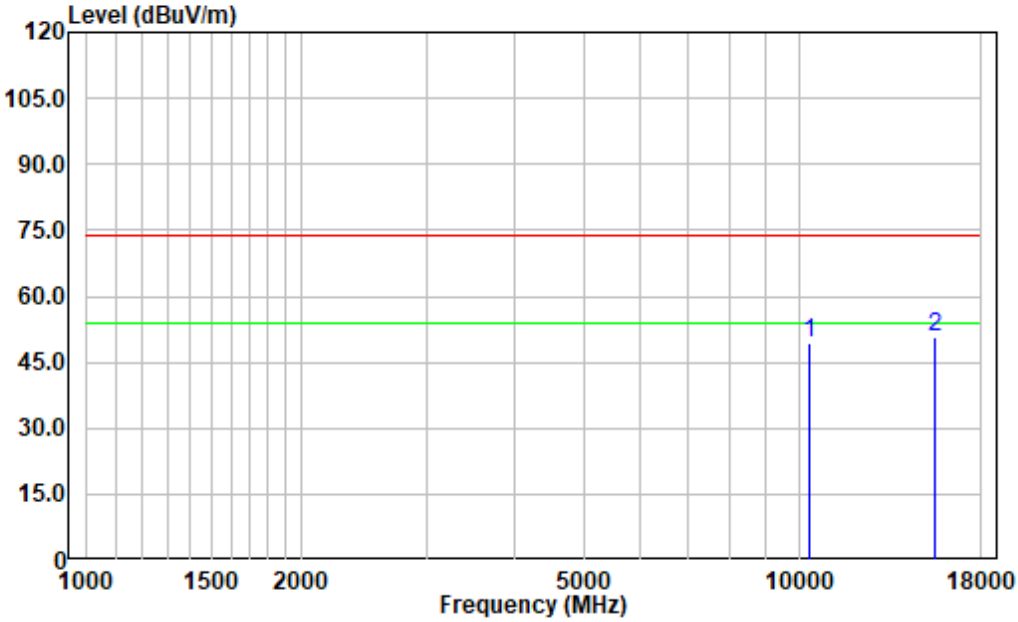
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10360.000	12.58	37.58	42.09	49.18	74.00	-24.82	Peak
2	15540.000	14.80	40.22	36.82	50.70	74.00	-23.30	Peak

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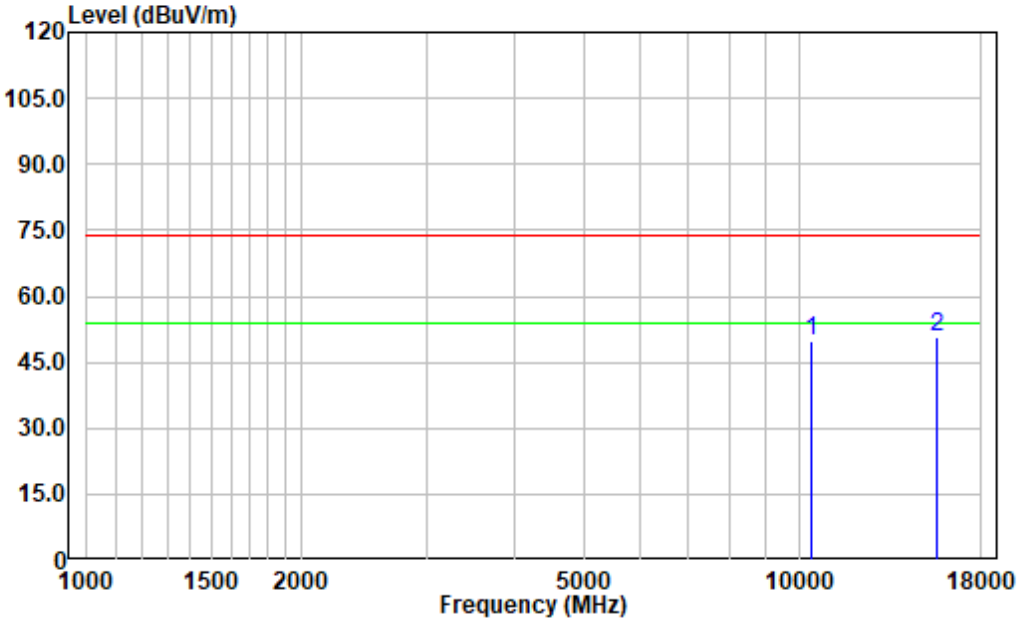
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10400.000	12.58	37.62	42.71	49.76	74.00	-24.24	Peak
2	15600.000	14.80	40.24	37.04	50.65	74.00	-23.35	Peak

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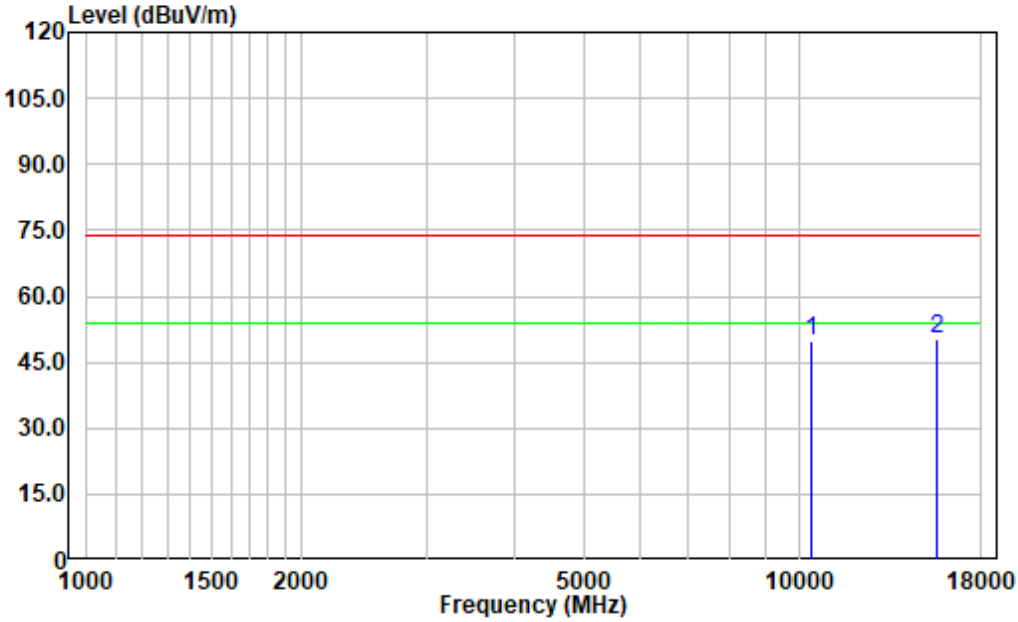
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10400.000	12.58	37.62	42.70	49.75	74.00	-24.25	Peak
2	15600.000	14.80	40.24	36.86	50.47	74.00	-23.53	Peak

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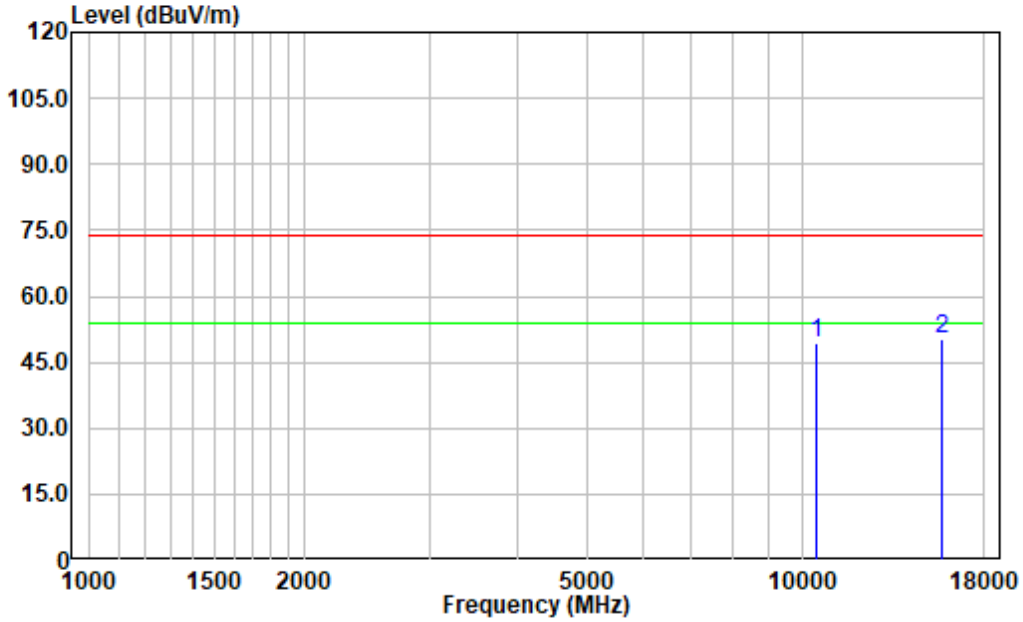
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10480.000	12.60	37.69	41.87	49.33	74.00	-24.67	Peak
2	15720.000	14.81	40.29	35.16	50.18	74.00	-23.82	Peak

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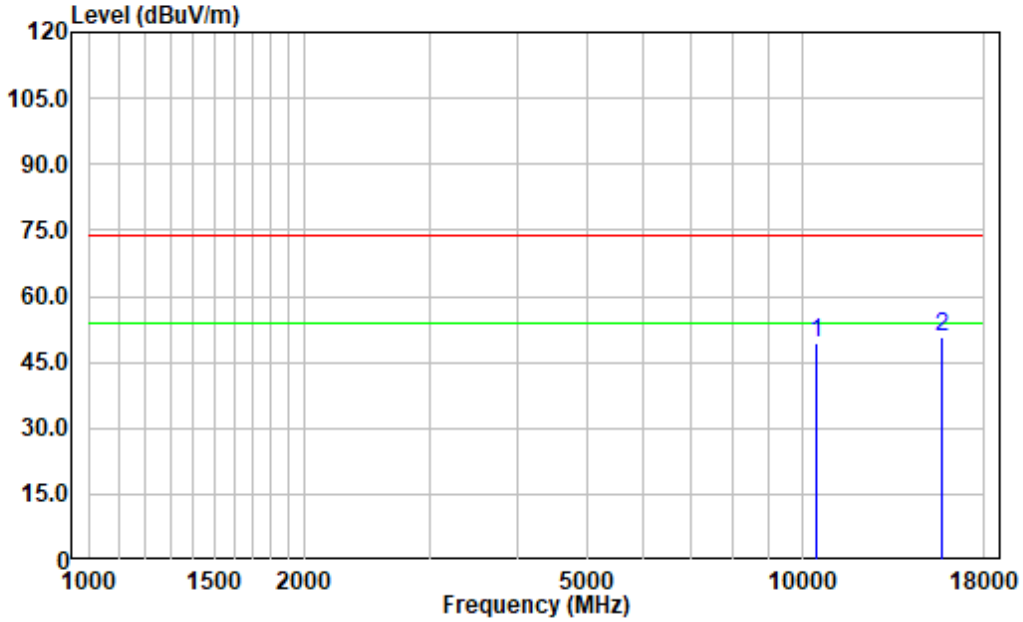
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10480.000	12.60	37.69	41.76	49.22	74.00	-24.78	Peak
2	15720.000	14.81	40.29	35.48	50.50	74.00	-23.50	Peak

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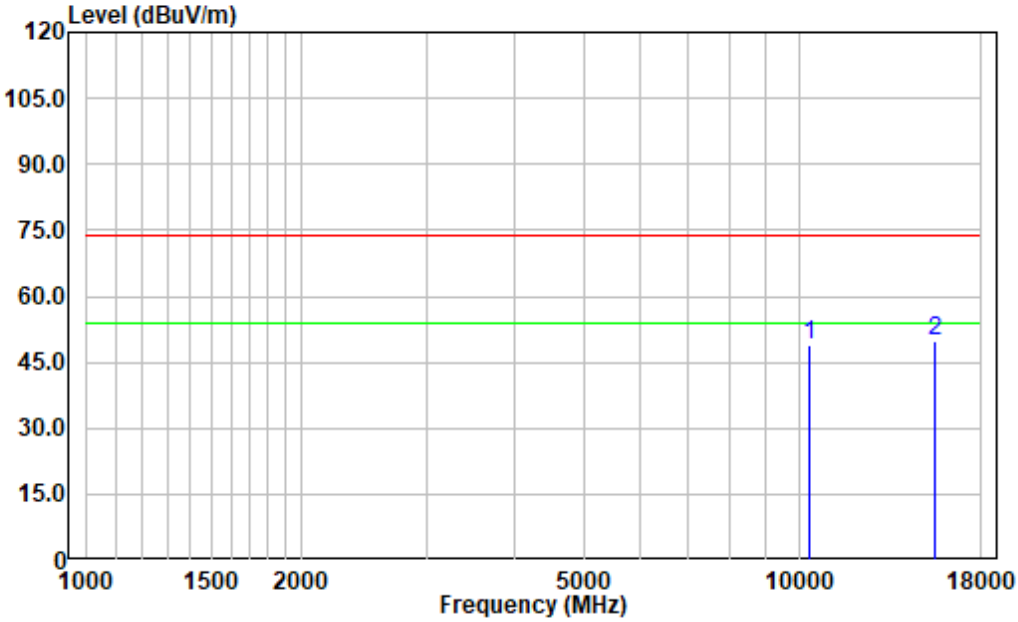
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10380.000	12.58	37.60	42.03	49.10	74.00	-24.90	Peak
2	15570.000	14.80	40.23	36.26	50.00	74.00	-24.00	Peak

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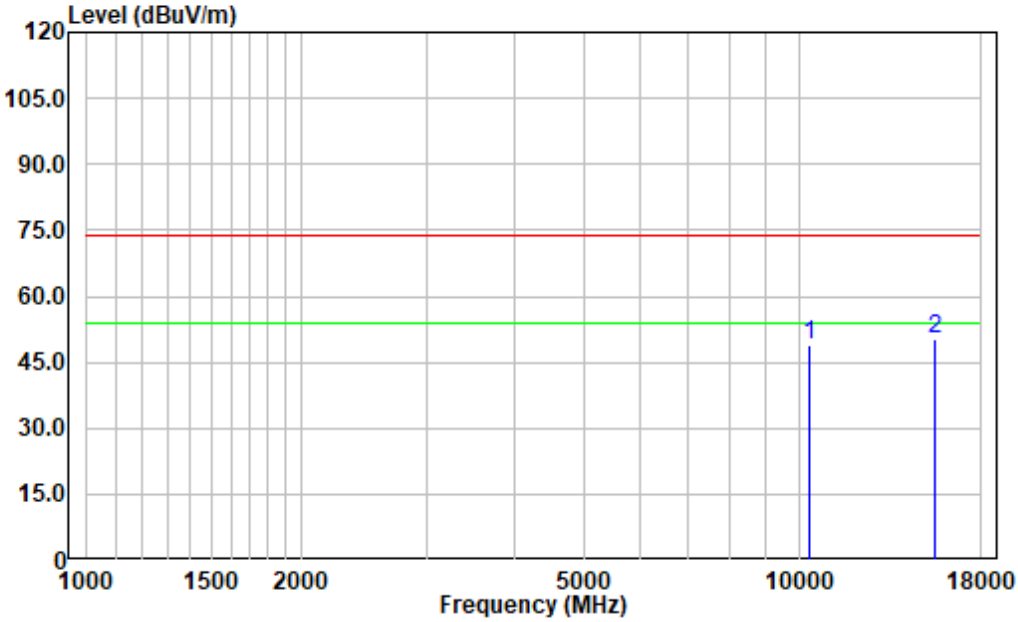
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10380.000	12.58	37.60	42.00	49.07	74.00	-24.93	Peak
2	15570.000	14.80	40.23	36.38	50.12	74.00	-23.88	Peak

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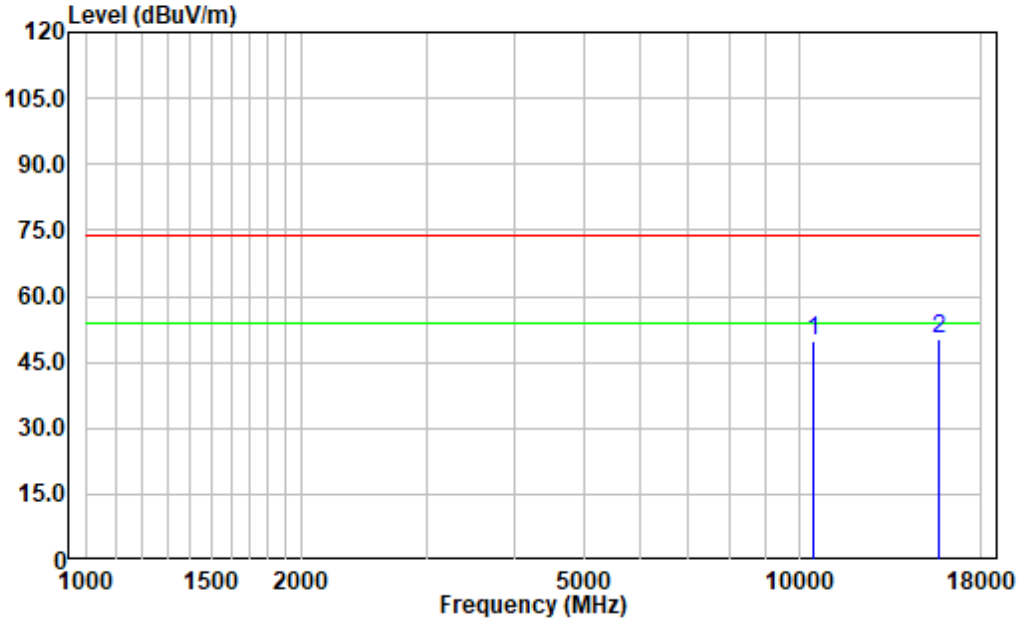
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10460.000	12.60	37.67	42.29	49.65	74.00	-24.35	Peak
2	15690.000	14.81	40.28	35.58	50.21	74.00	-23.79	Peak

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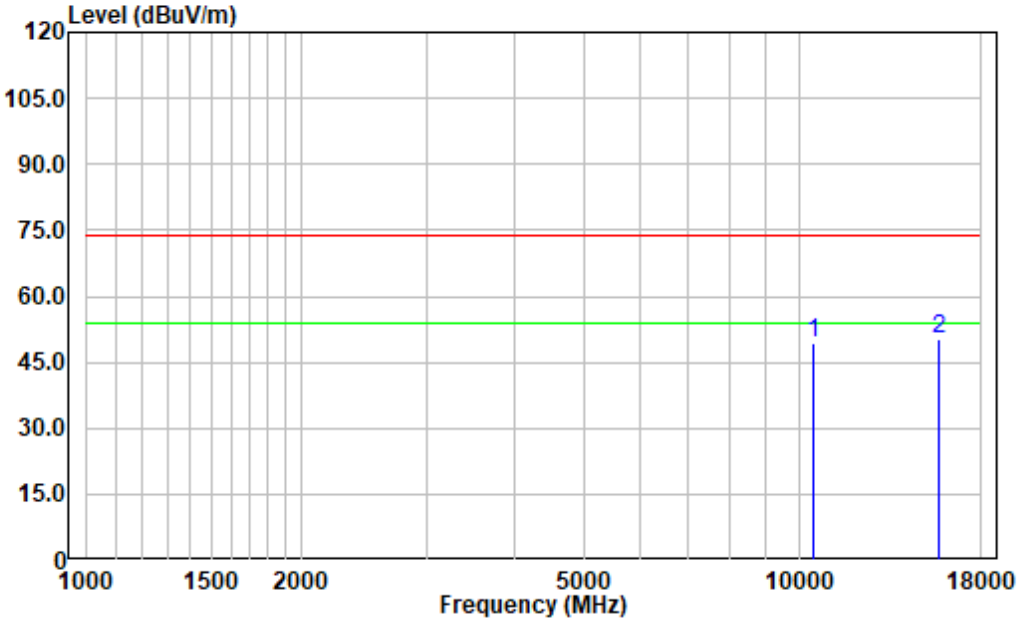
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10460.000	12.60	37.67	42.01	49.37	74.00	-24.63	Peak
2	15690.000	14.81	40.28	35.53	50.16	74.00	-23.84	Peak

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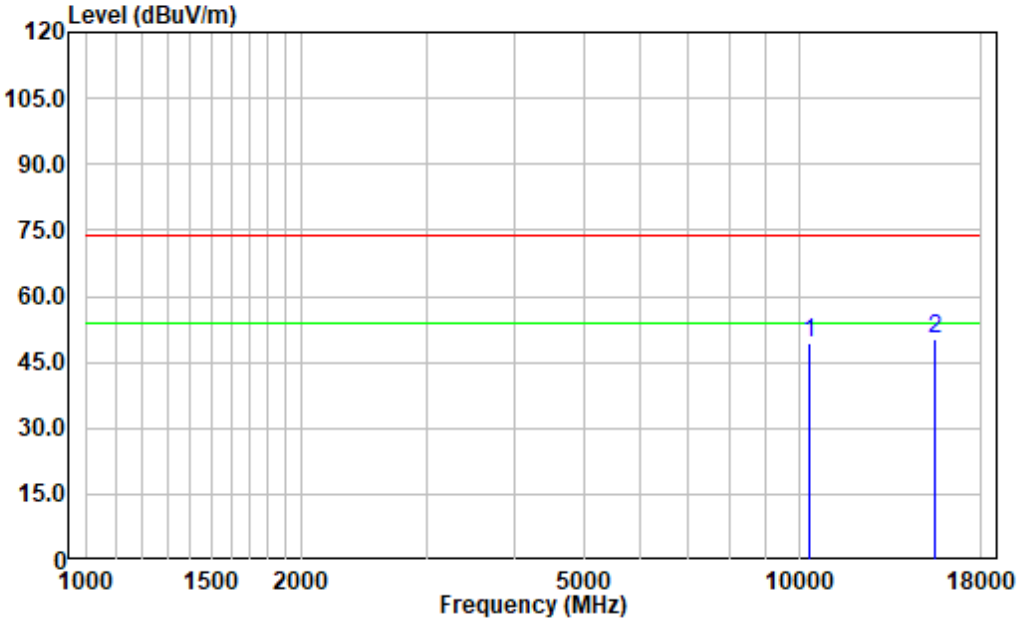
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10360.000	12.58	37.58	42.28	49.37	74.00	-24.63	Peak
2	15540.000	14.80	40.22	36.51	50.39	74.00	-23.61	Peak

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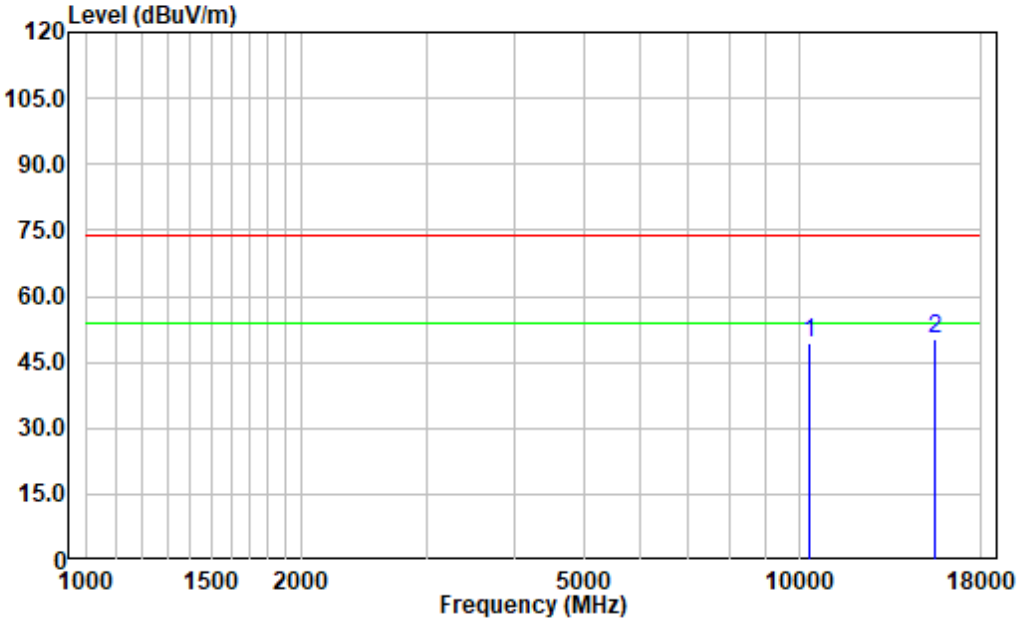
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10360.000	12.58	37.58	42.30	49.39	74.00	-24.61	Peak
2	15540.000	14.80	40.22	36.44	50.32	74.00	-23.68	Peak

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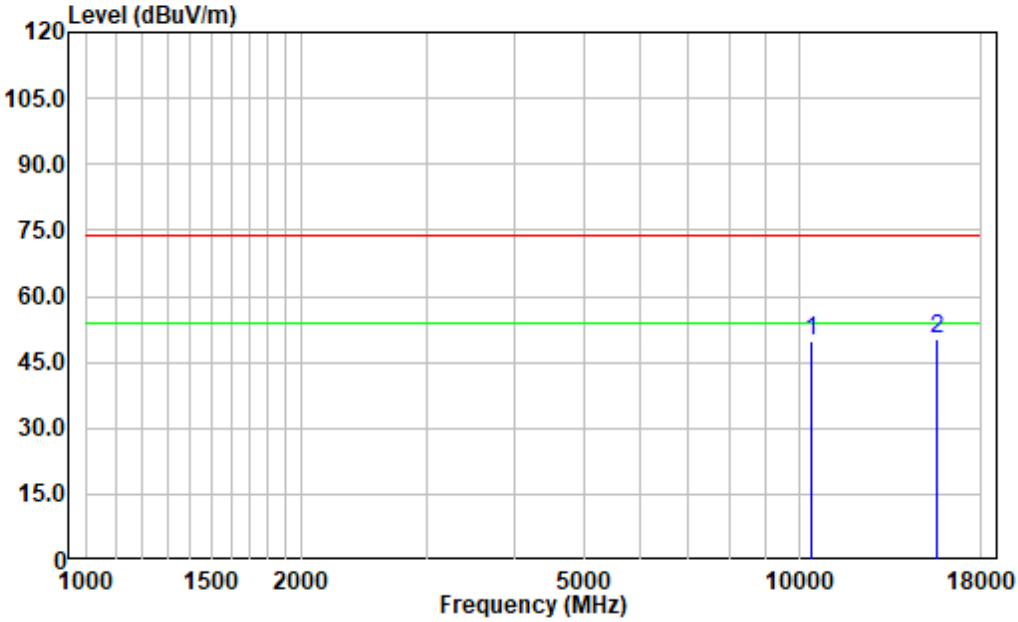
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10400.000	12.58	37.62	42.60	49.65	74.00	-24.35	Peak
2	15600.000	14.80	40.24	36.53	50.14	74.00	-23.86	Peak

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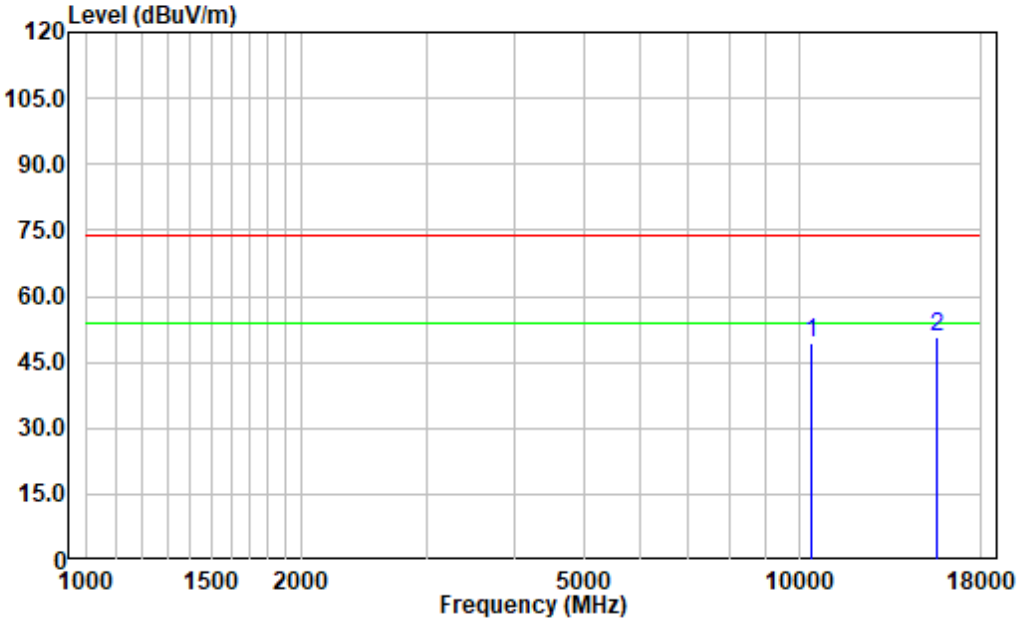
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10400.000	12.58	37.62	42.15	49.20	74.00	-24.80	Peak
2	15600.000	14.80	40.24	37.27	50.88	74.00	-23.12	Peak

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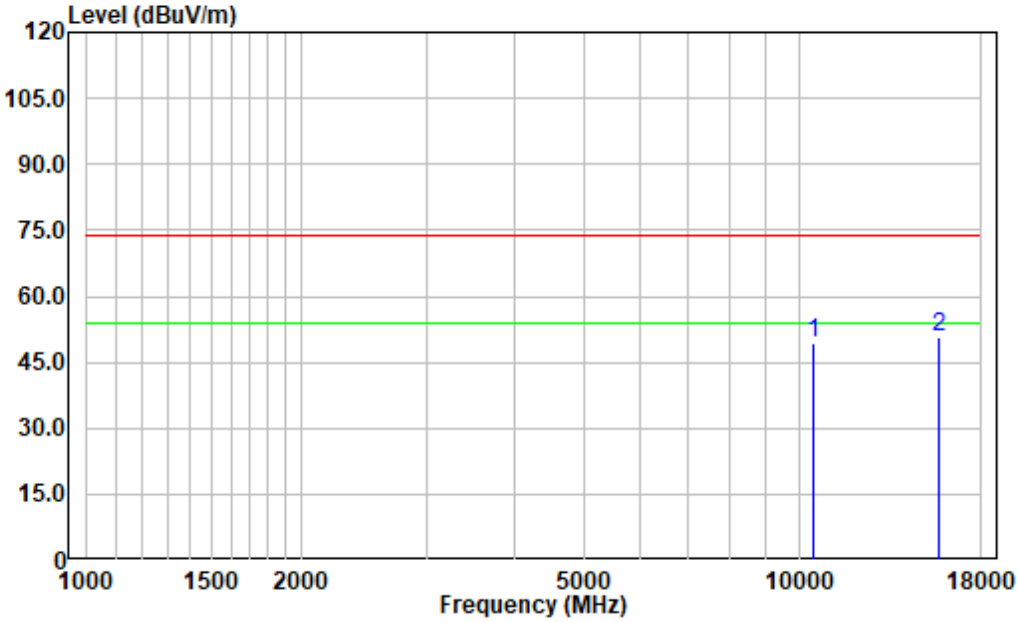
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10480.000	12.60	37.69	42.09	49.55	74.00	-24.45	Peak
2	15720.000	14.81	40.29	35.55	50.57	74.00	-23.43	Peak

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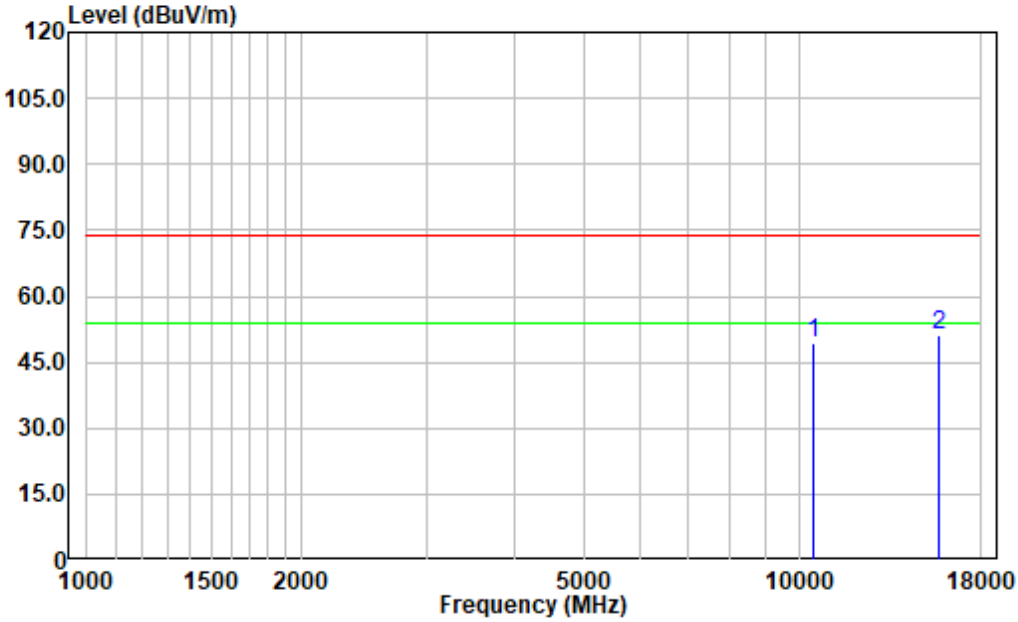
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10480.000	12.60	37.69	41.81	49.27	74.00	-24.73	Peak
2	15720.000	14.81	40.29	35.97	50.99	74.00	-23.01	Peak

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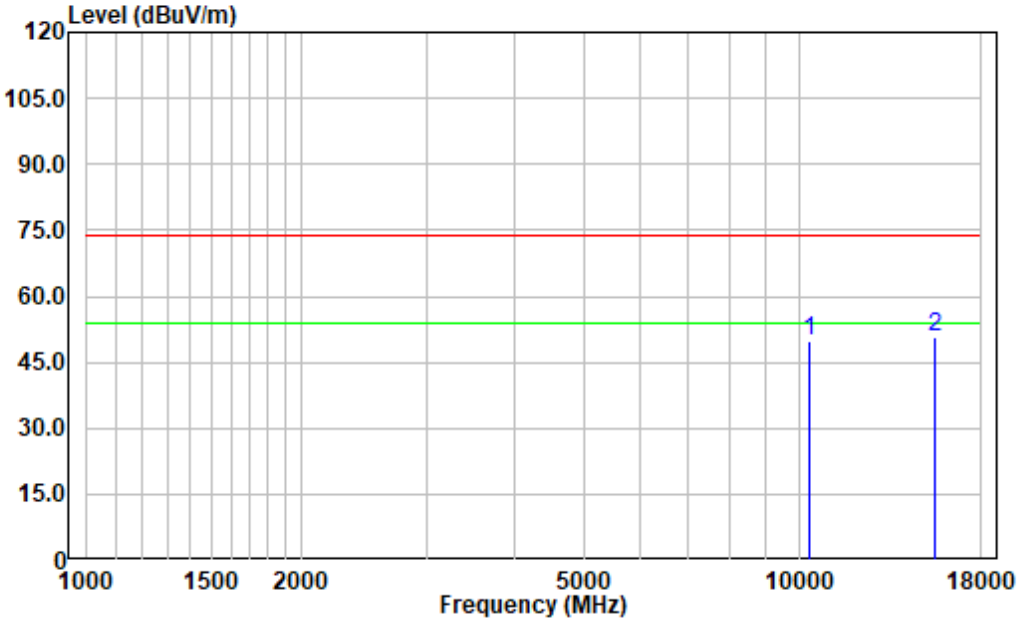
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10380.000	12.58	37.60	42.70	49.77	74.00	-24.23	Peak
2	15570.000	14.80	40.23	36.87	50.61	74.00	-23.39	Peak

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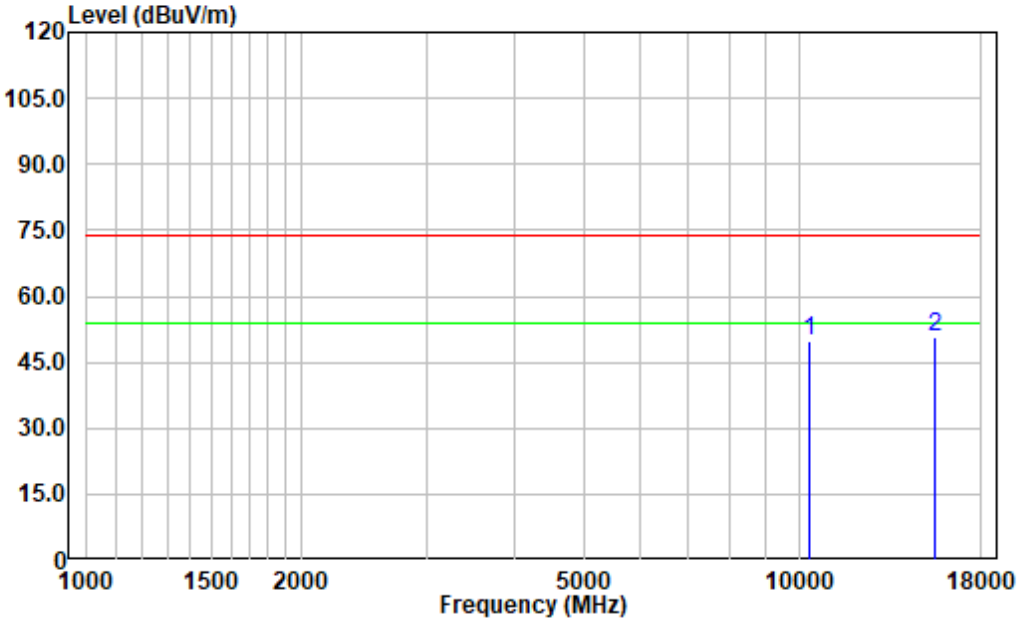
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10380.000	12.58	37.60	42.89	49.96	74.00	-24.04	Peak
2	15570.000	14.80	40.23	36.96	50.70	74.00	-23.30	Peak

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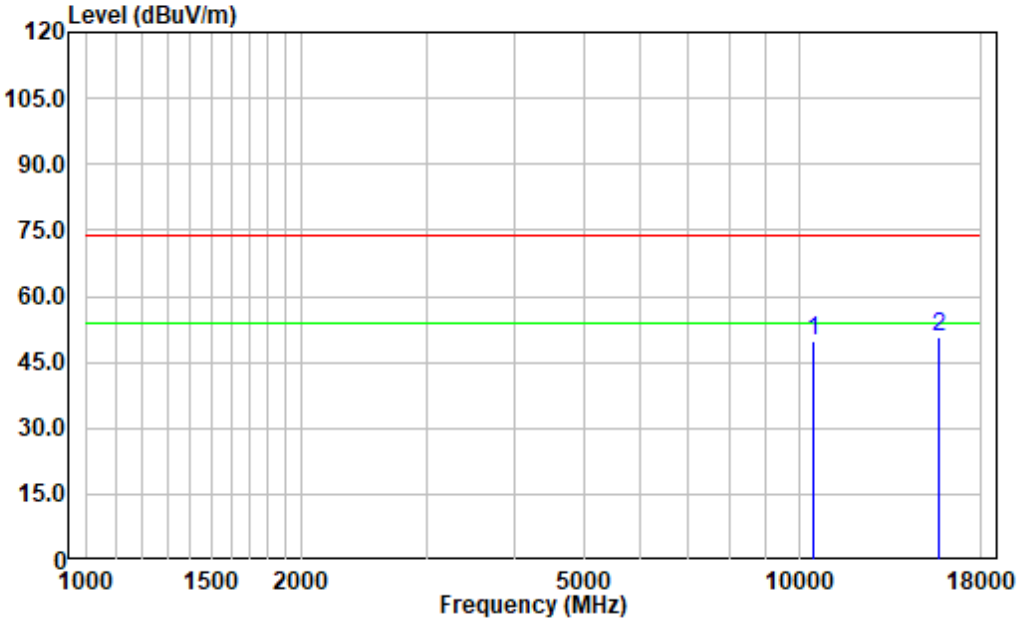
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10460.000	12.60	37.67	42.25	49.61	74.00	-24.39	Peak
2	15690.000	14.81	40.28	35.91	50.54	74.00	-23.46	Peak

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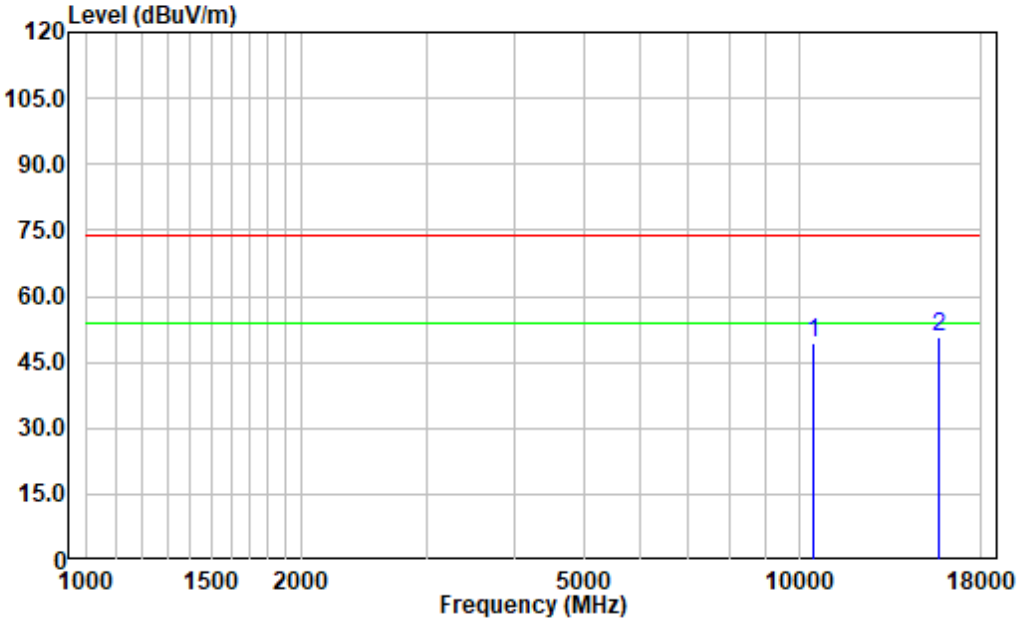
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10460.000	12.60	37.67	42.02	49.38	74.00	-24.62	Peak
2	15690.000	14.81	40.28	35.96	50.59	74.00	-23.41	Peak

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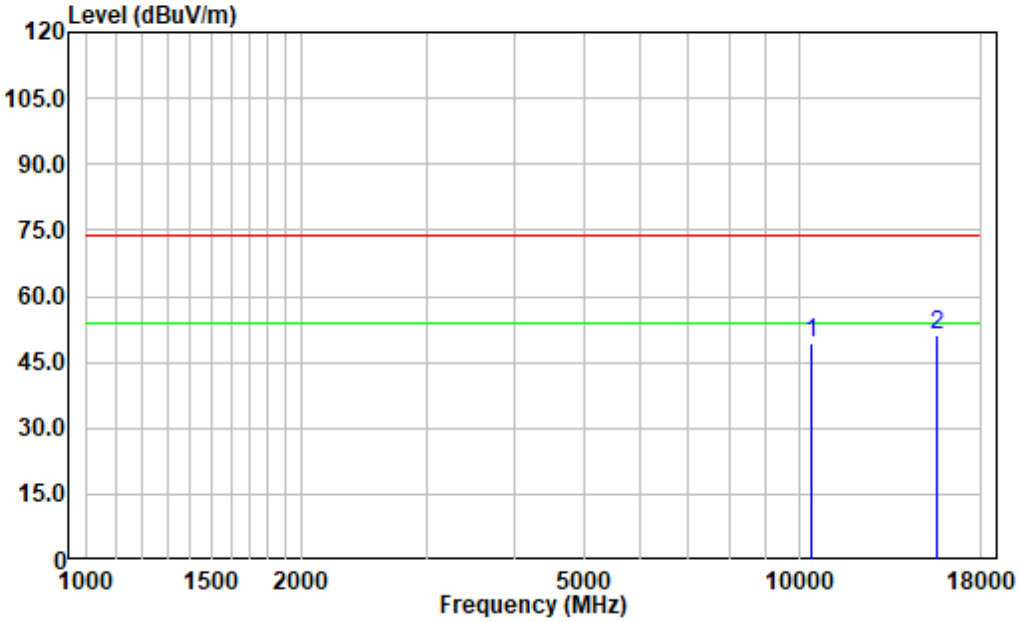
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10420.000	12.59	37.64	42.40	49.56	74.00	-24.44	Peak
2	15630.000	14.80	40.25	37.06	51.00	74.00	-23.00	Peak

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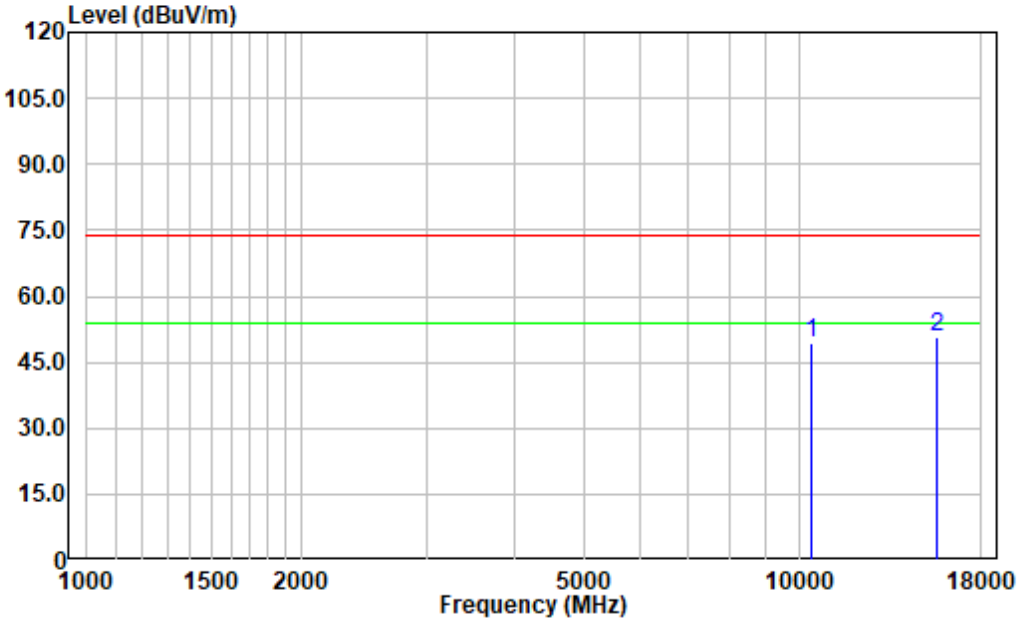
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10420.000	12.59	37.64	42.11	49.27	74.00	-24.73	Peak
2	15630.000	14.80	40.25	36.59	50.53	74.00	-23.47	Peak

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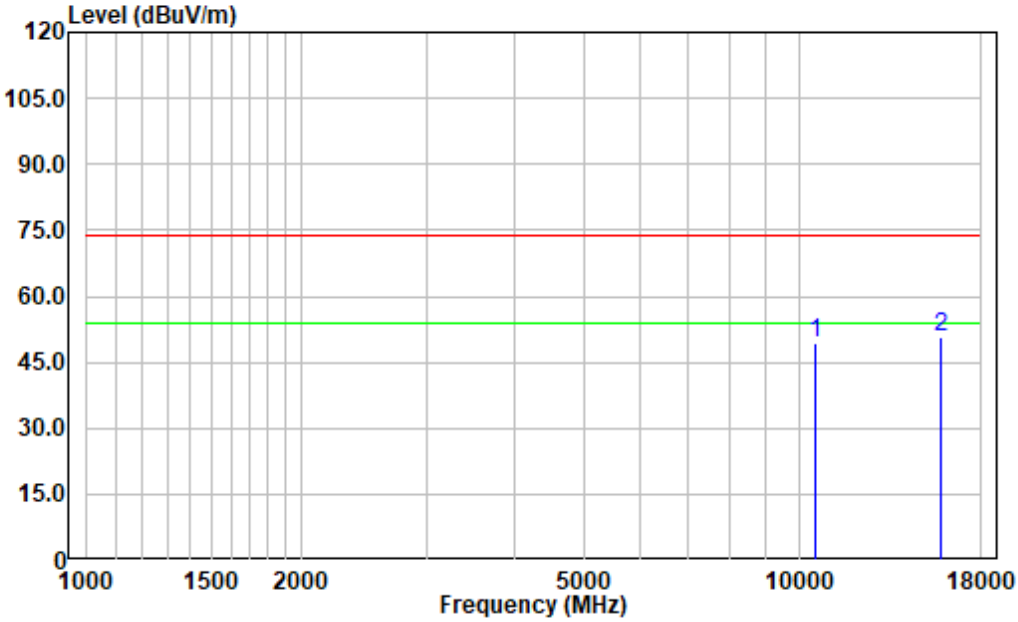
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10520.000	12.61	37.73	41.66	49.34	74.00	-24.66	Peak
2	15780.000	14.81	40.31	34.94	50.78	74.00	-23.22	Peak

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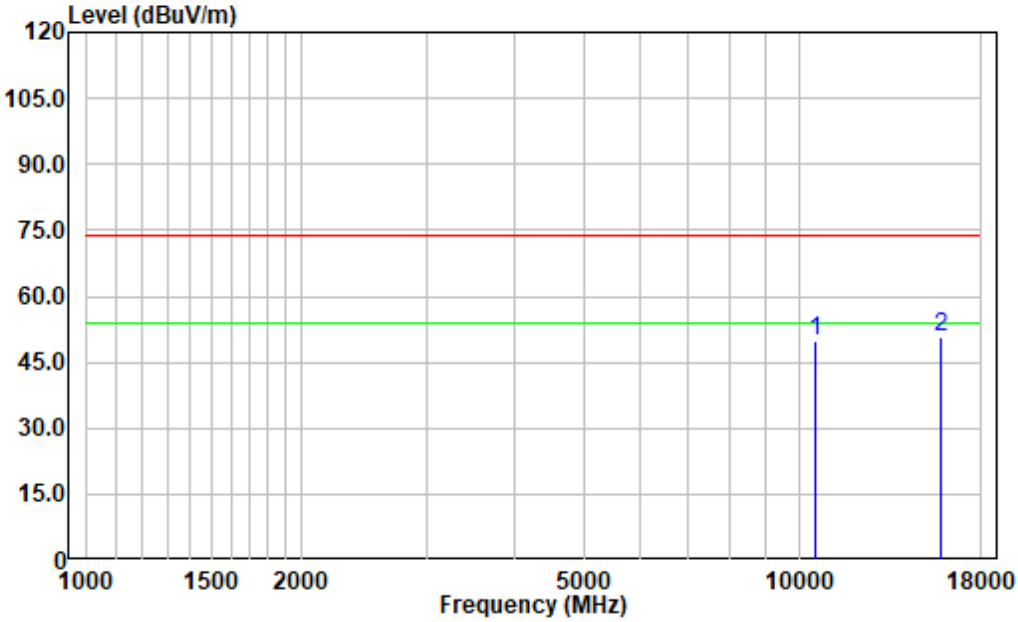
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10520.000	12.61	37.73	42.09	49.77	74.00	-24.23	Peak
2	15780.000	14.81	40.31	35.04	50.88	74.00	-23.12	Peak

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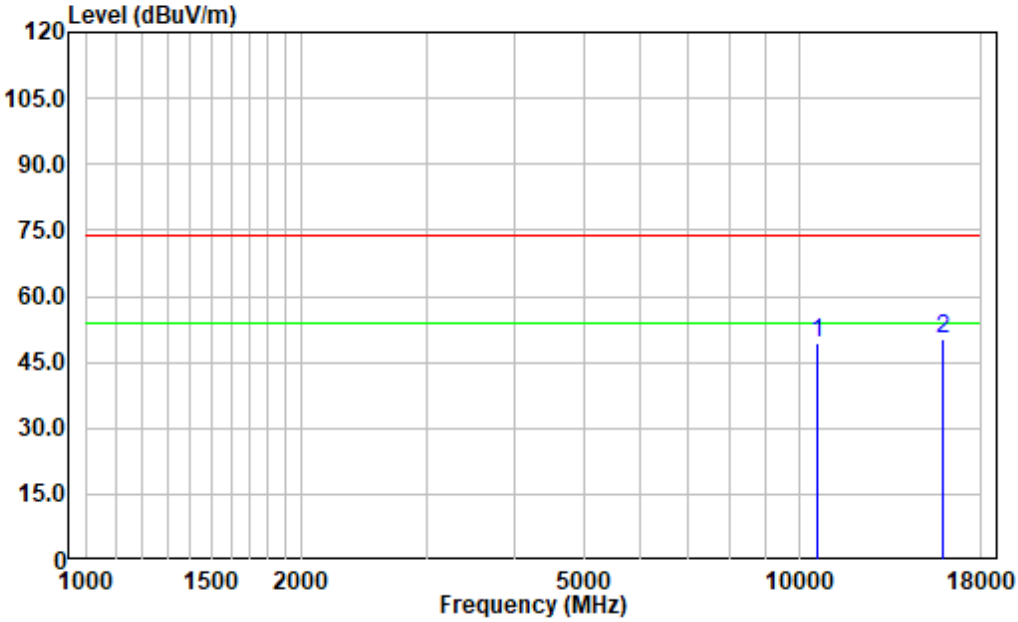
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10600.000	12.62	37.80	41.17	49.31	74.00	-24.69	Peak
2	15900.000	14.85	40.35	33.95	50.10	74.00	-23.90	Peak

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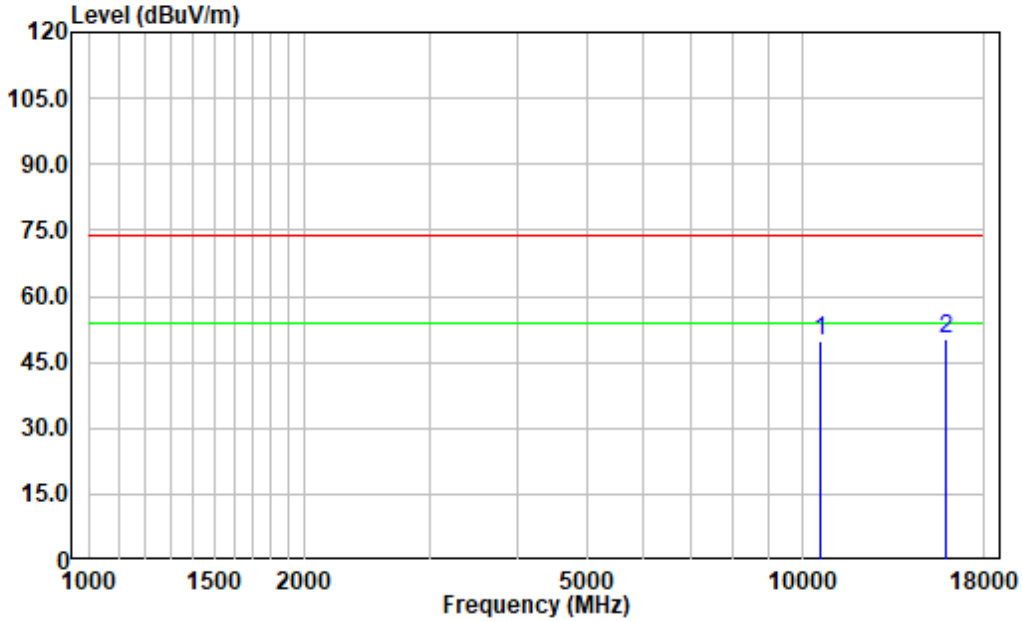
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10600.000	12.62	37.80	41.61	49.75	74.00	-24.25	Peak
2	15900.000	14.85	40.35	34.29	50.44	74.00	-23.56	Peak

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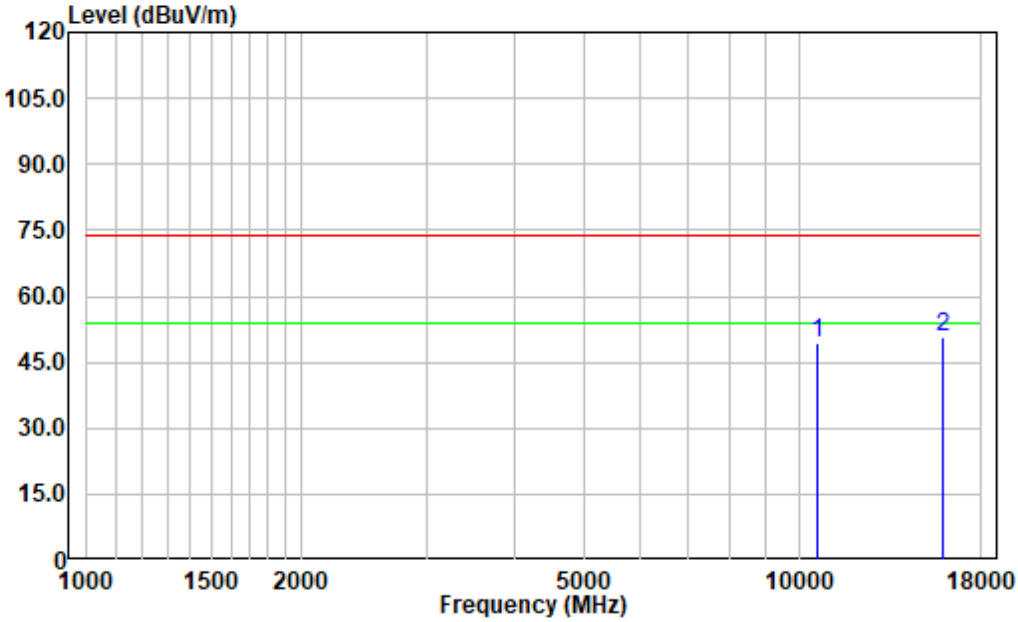
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	12.63	37.83	41.04	49.31	74.00	-24.69	Peak
2	15960.000	14.90	40.38	34.83	50.93	74.00	-23.07	Peak

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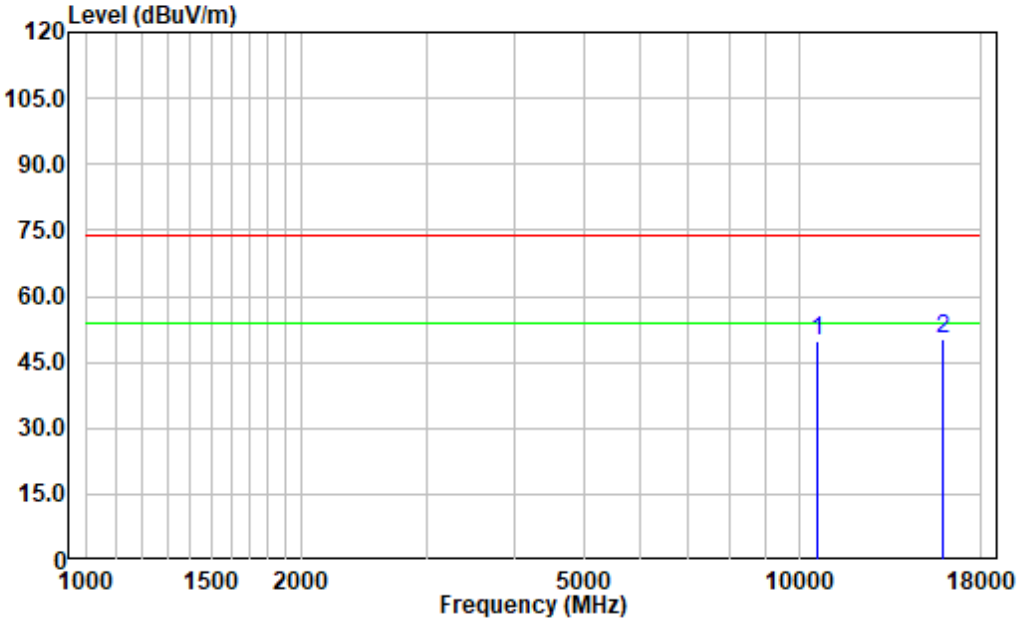
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	12.63	37.83	41.66	49.93	74.00	-24.07	Peak
2	15960.000	14.90	40.38	34.24	50.34	74.00	-23.66	Peak

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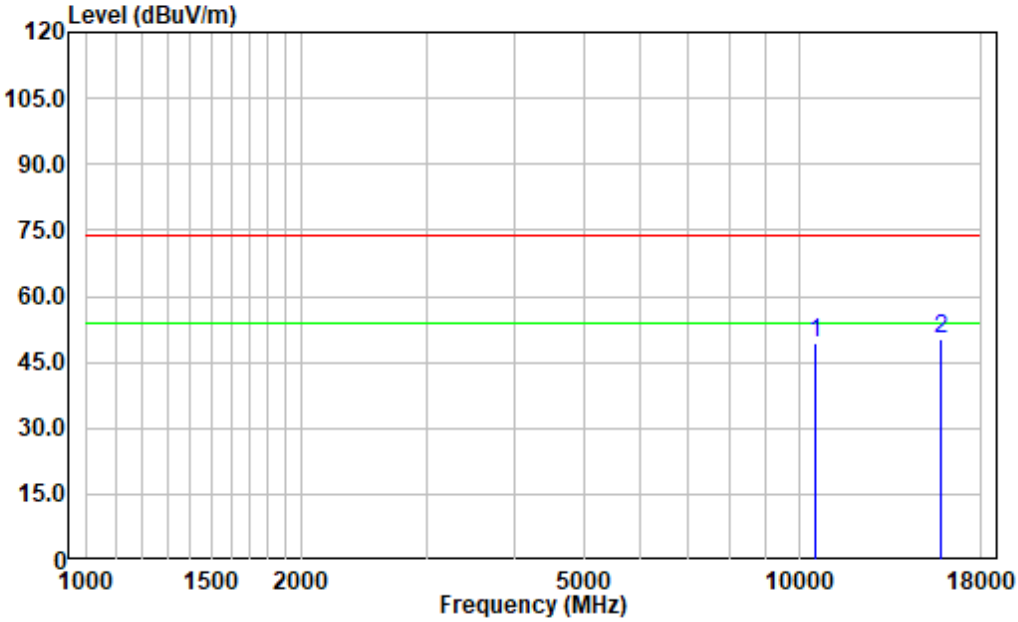
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10520.000	12.61	37.73	41.65	49.33	74.00	-24.67	Peak
2	15780.000	14.81	40.31	34.43	50.27	74.00	-23.73	Peak

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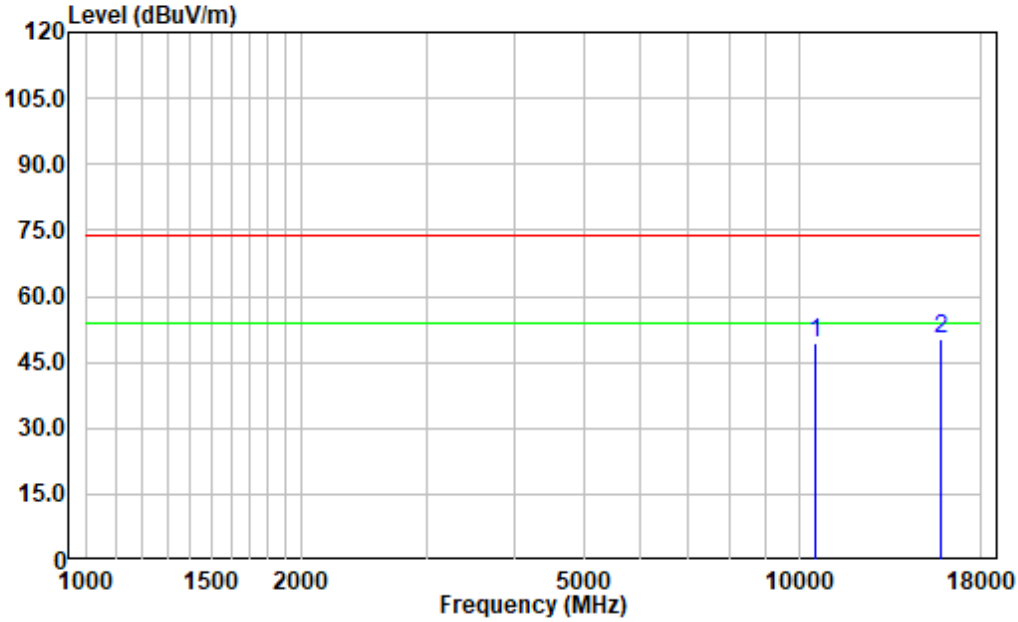
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10520.000	12.61	37.73	41.66	49.34	74.00	-24.66	Peak
2	15780.000	14.81	40.31	34.28	50.12	74.00	-23.88	Peak

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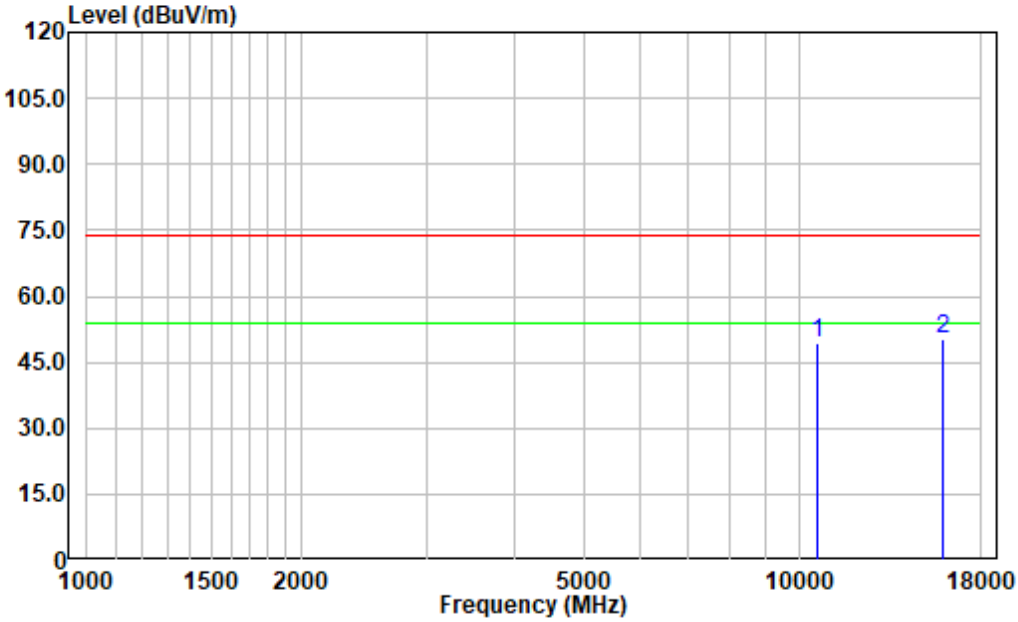
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10600.000	12.62	37.80	41.26	49.40	74.00	-24.60	Peak
2	15900.000	14.85	40.35	34.27	50.42	74.00	-23.58	Peak

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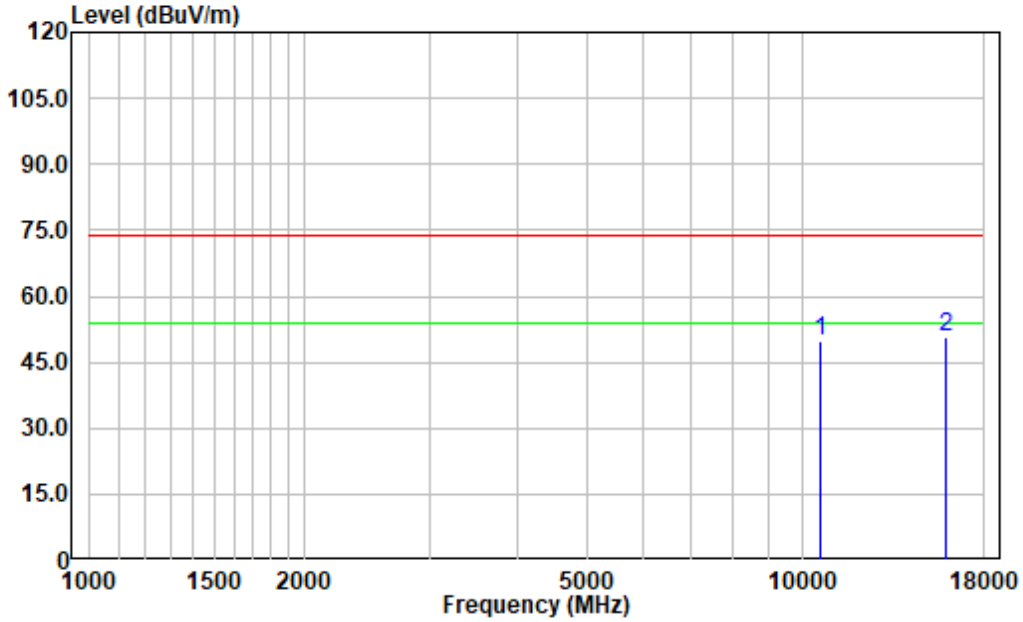
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10600.000	12.62	37.80	41.61	49.75	74.00	-24.25	Peak
2	15900.000	14.85	40.35	34.79	50.94	74.00	-23.06	Peak

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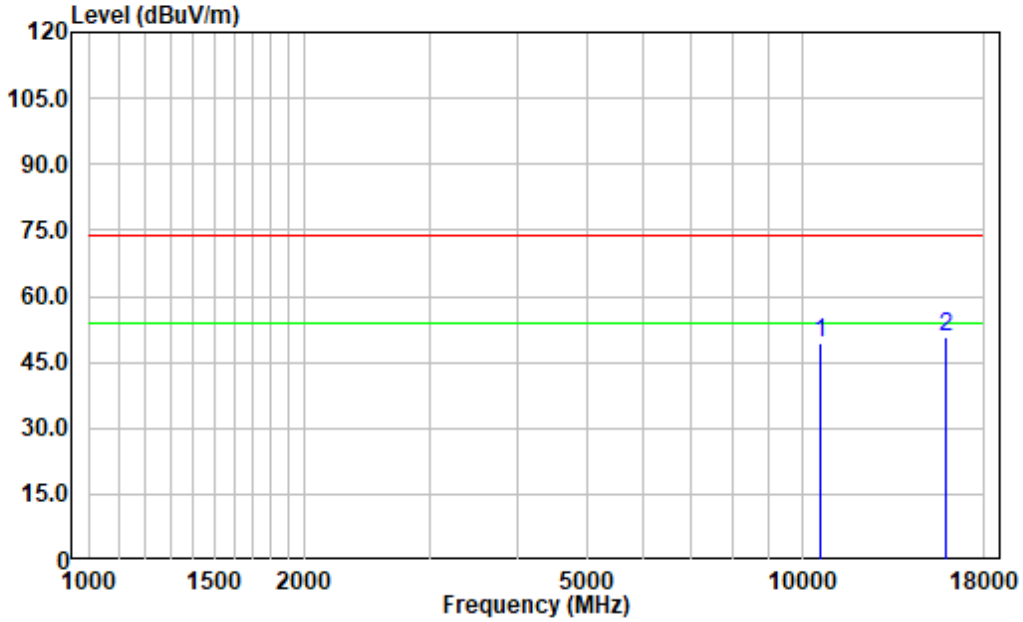
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	12.63	37.83	40.98	49.25	74.00	-24.75	Peak
2	15960.000	14.90	40.38	34.57	50.67	74.00	-23.33	Peak

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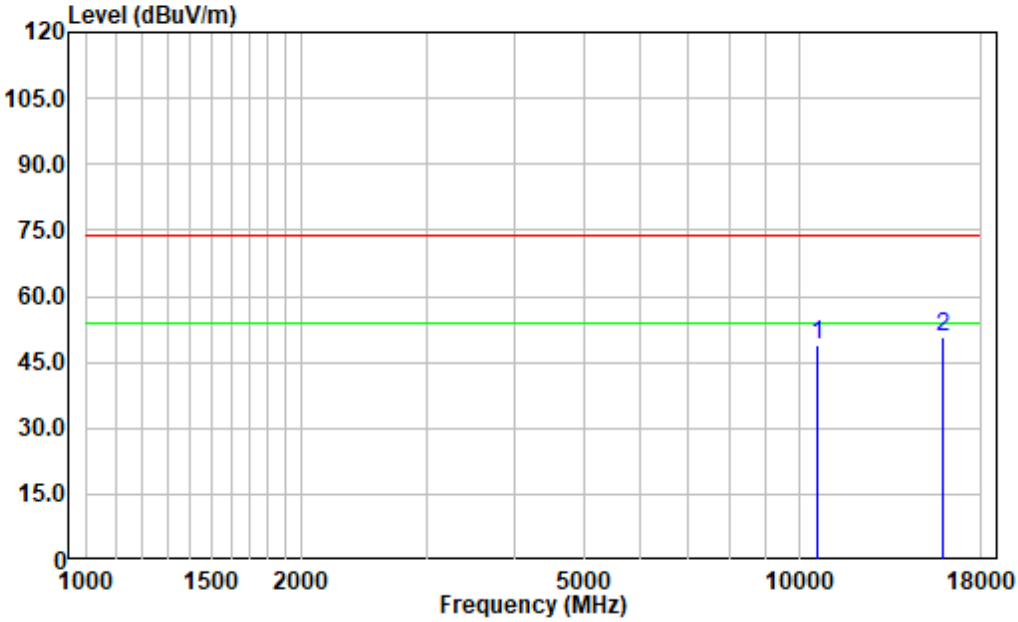
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	12.63	37.83	40.73	49.00	74.00	-25.00	Peak
2	15960.000	14.90	40.38	34.40	50.50	74.00	-23.50	Peak

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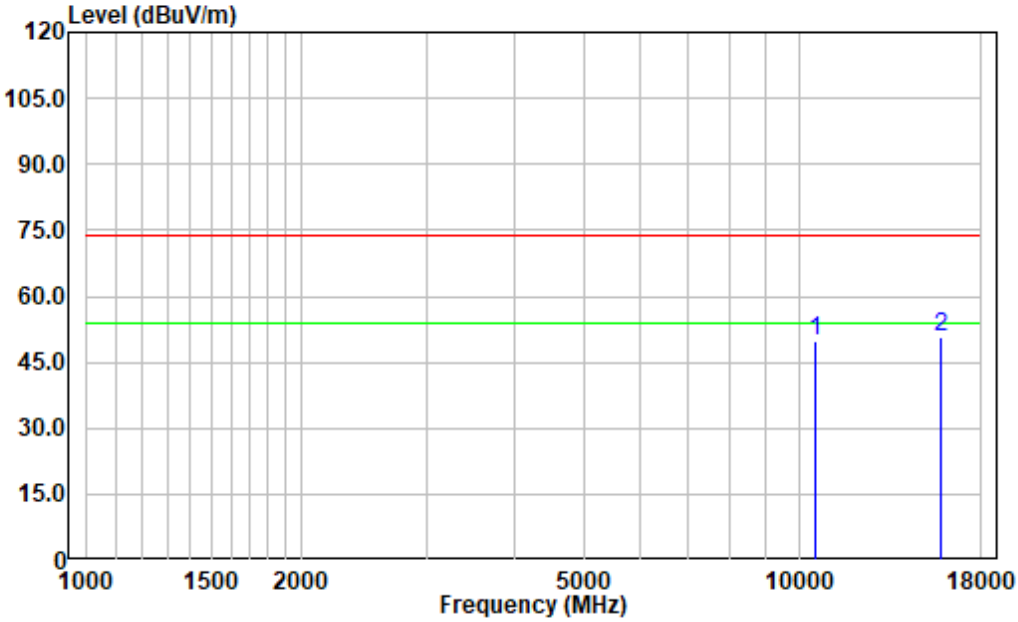
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10540.000	12.61	37.74	42.17	49.96	74.00	-24.04	Peak
2	15810.000	14.81	40.32	34.59	50.71	74.00	-23.29	Peak

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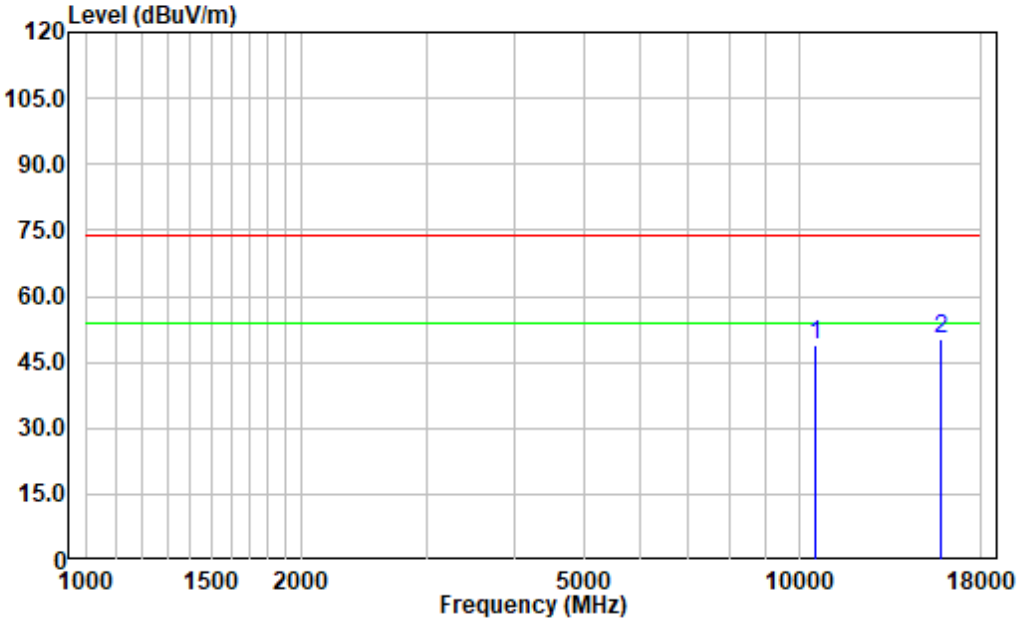
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10540.000	12.61	37.74	41.30	49.09	74.00	-24.91	Peak
2	15810.000	14.81	40.32	34.02	50.14	74.00	-23.86	Peak

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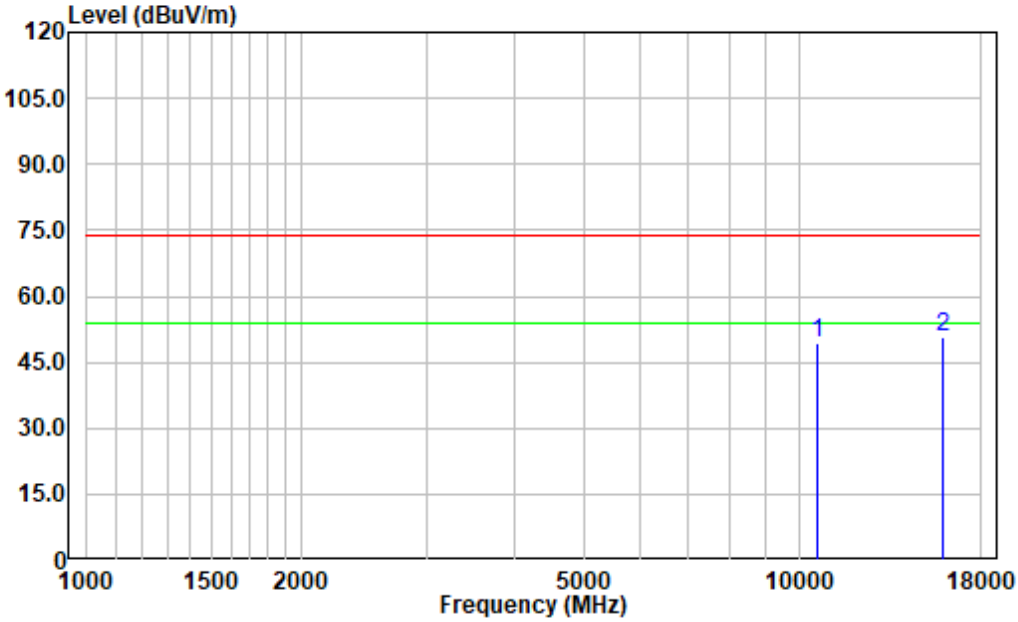
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10620.000	12.62	37.82	41.25	49.45	74.00	-24.55	Peak
2	15930.000	14.87	40.37	34.46	50.58	74.00	-23.42	Peak

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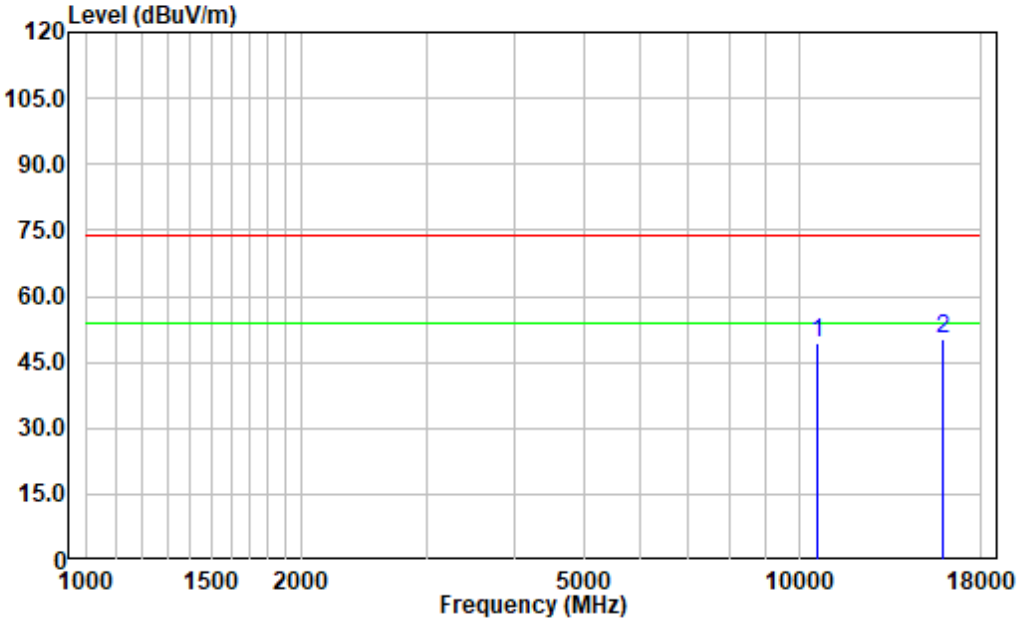
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10620.000	12.62	37.82	41.13	49.33	74.00	-24.67	Peak
2	15930.000	14.87	40.37	33.94	50.06	74.00	-23.94	Peak

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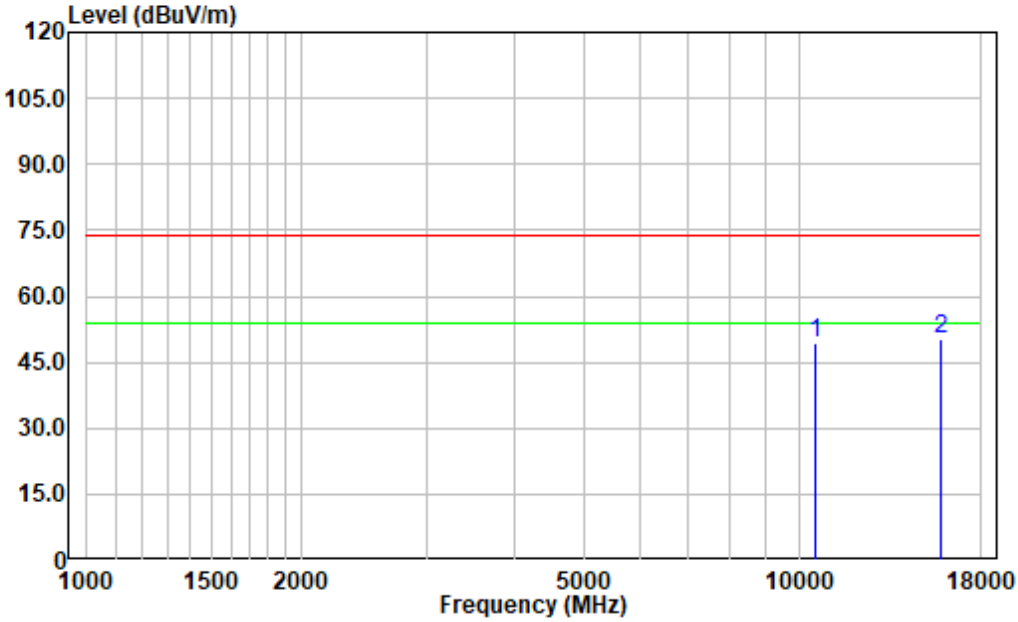
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10520.000	12.61	37.73	41.86	49.54	74.00	-24.46	Peak
2	15780.000	14.81	40.31	34.46	50.30	74.00	-23.70	Peak

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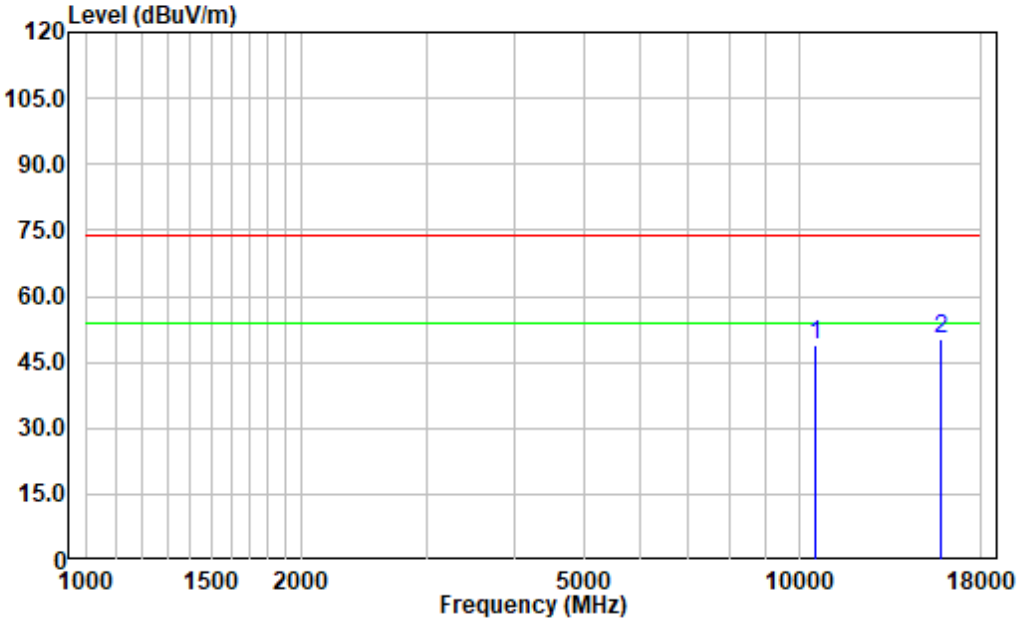
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10520.000	12.61	37.73	41.45	49.13	74.00	-24.87	Peak
2	15780.000	14.81	40.31	34.23	50.07	74.00	-23.93	Peak

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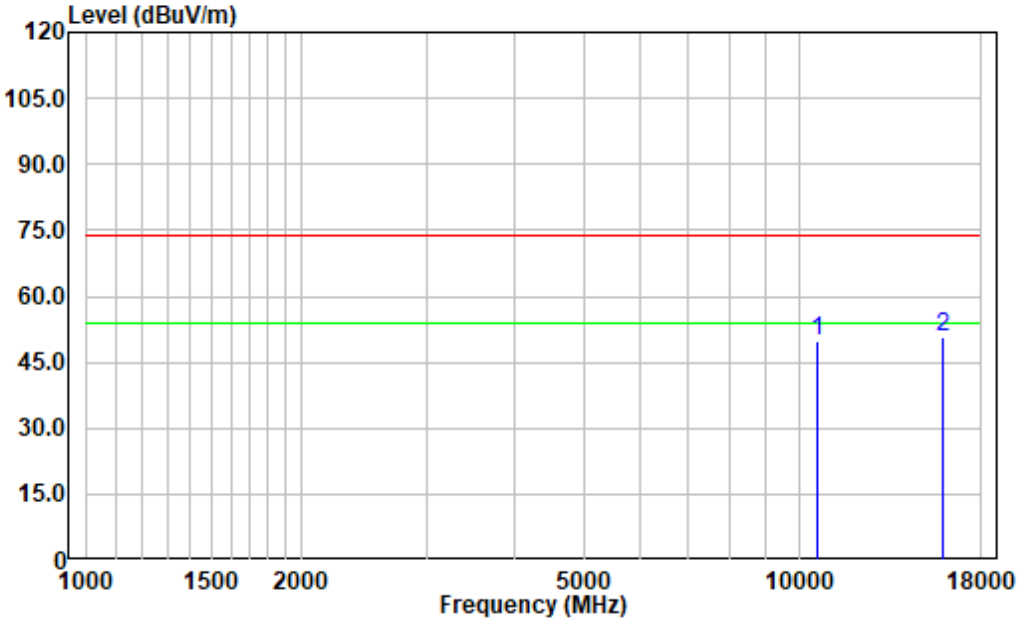
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10600.000	12.62	37.80	41.66	49.80	74.00	-24.20	Peak
2	15900.000	14.85	40.35	34.38	50.53	74.00	-23.47	Peak

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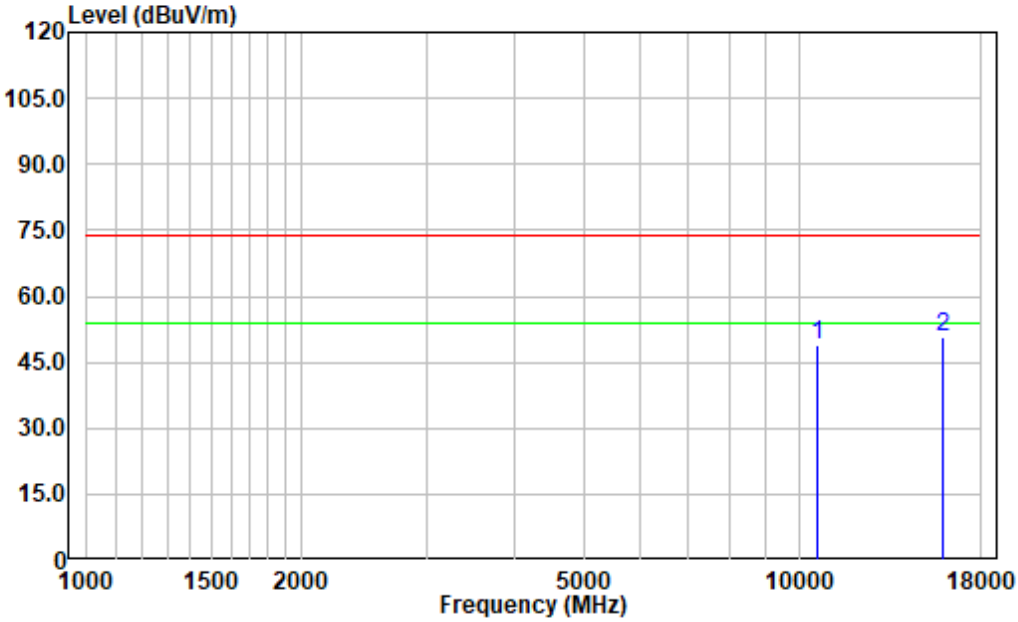
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10600.000	12.62	37.80	40.93	49.07	74.00	-24.93	Peak
2	15900.000	14.85	40.35	34.48	50.63	74.00	-23.37	Peak

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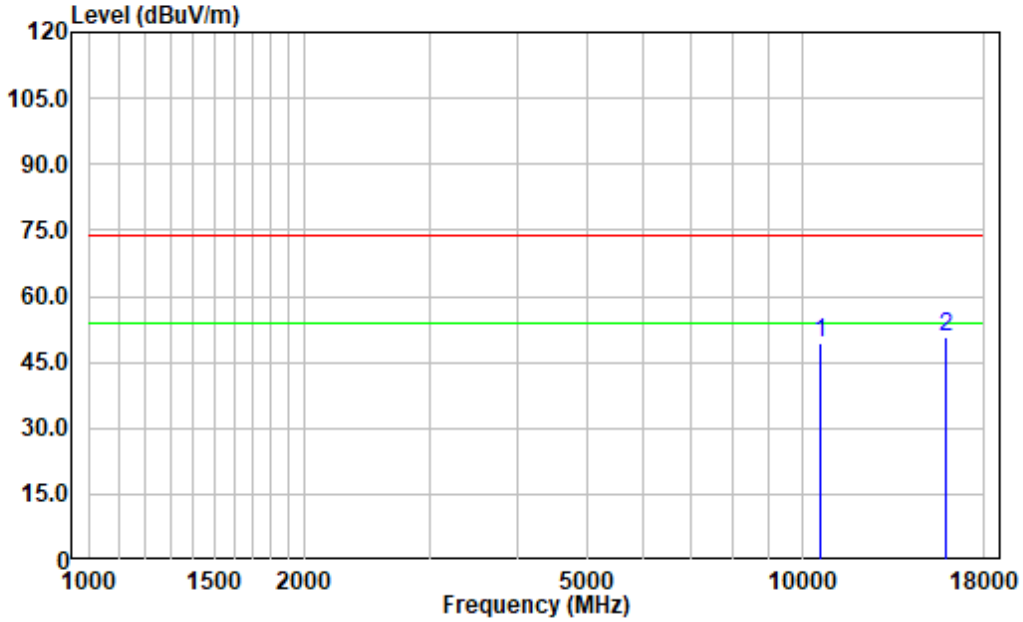
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	12.63	37.83	41.24	49.51	74.00	-24.49	Peak
2	15900.000	14.85	40.35	34.48	50.63	74.00	-23.37	Peak

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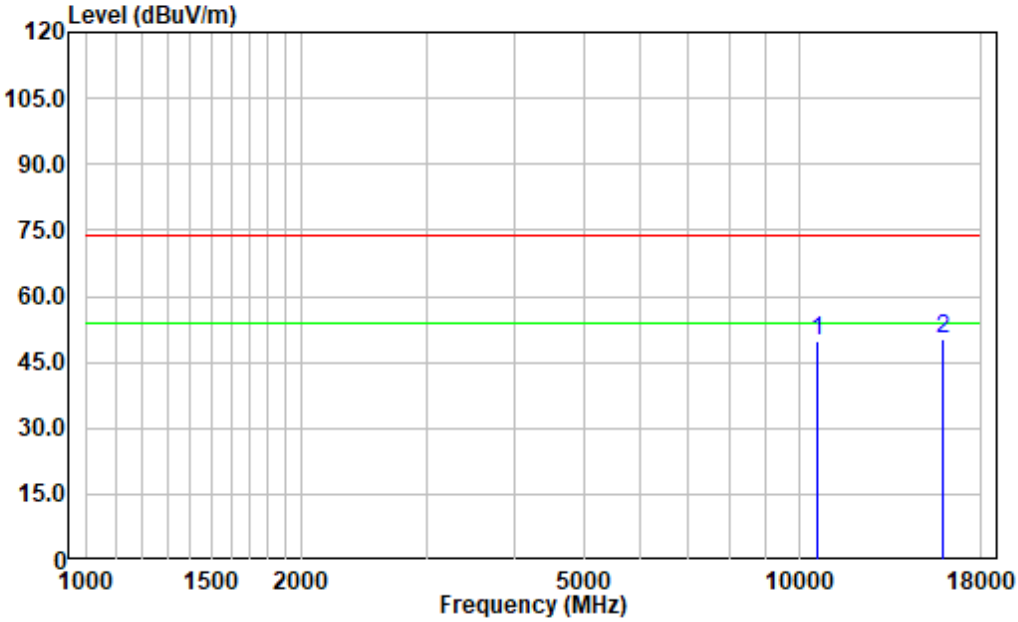
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	12.63	37.83	41.39	49.66	74.00	-24.34	Peak
2	15900.000	14.85	40.35	33.91	50.06	74.00	-23.94	Peak

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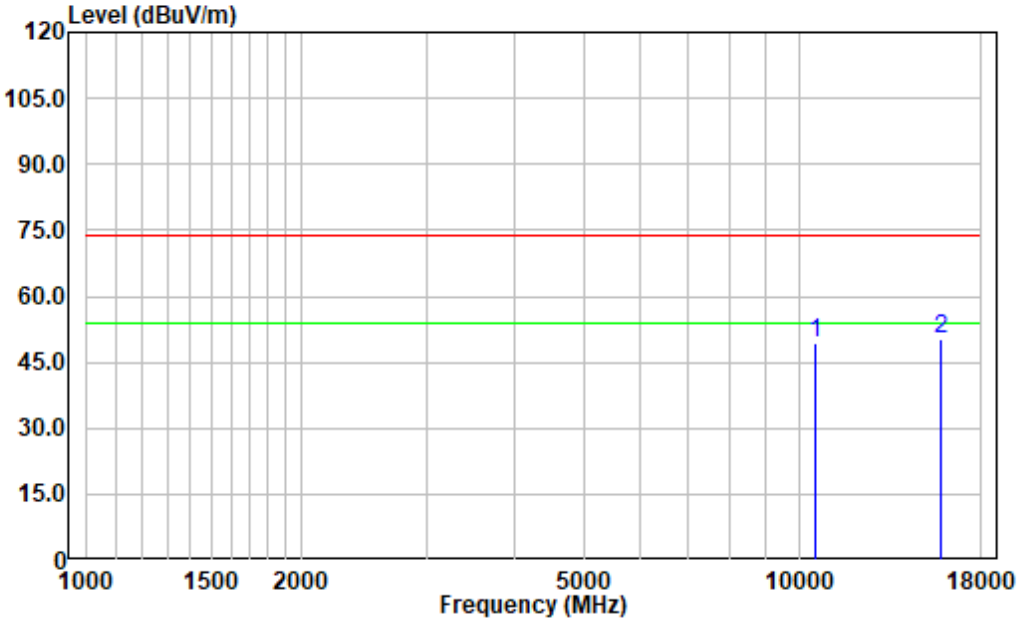
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10540.000	12.61	37.74	41.60	49.39	74.00	-24.61	Peak
2	15810.000	14.81	40.32	34.14	50.26	74.00	-23.74	Peak

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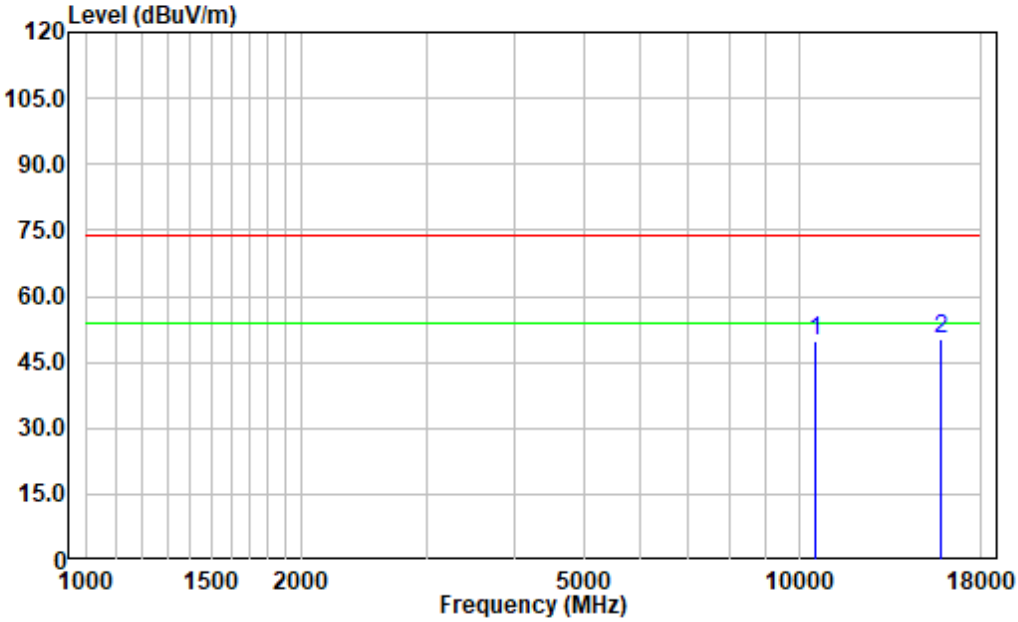
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10540.000	12.61	37.74	41.90	49.69	74.00	-24.31	Peak
2	15810.000	14.81	40.32	34.29	50.41	74.00	-23.59	Peak

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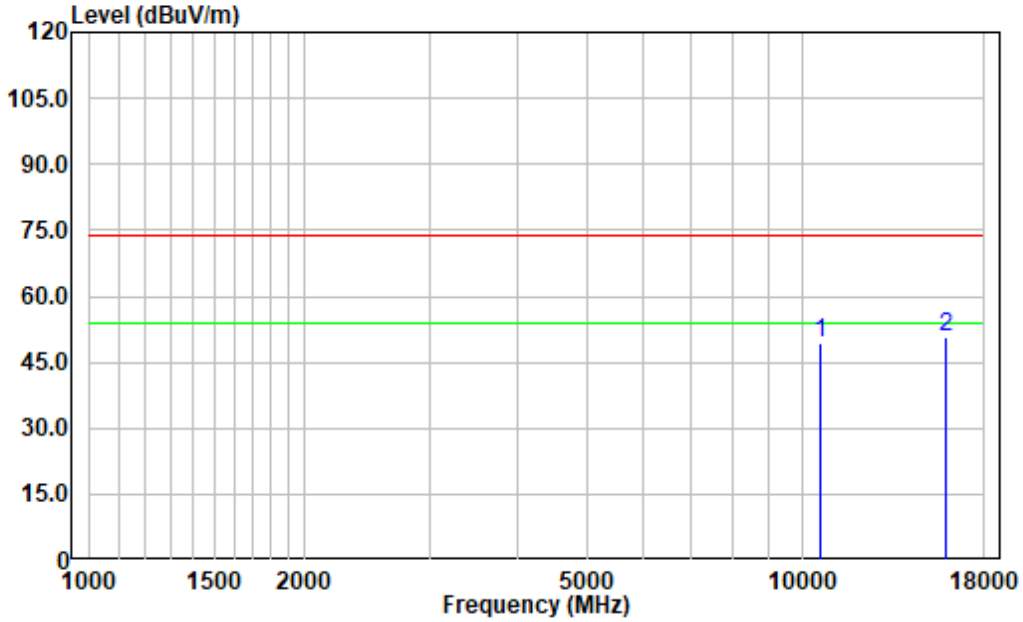
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10620.000	12.62	37.82	40.95	49.15	74.00	-24.85	Peak
2	15930.000	14.87	40.37	34.65	50.77	74.00	-23.23	Peak

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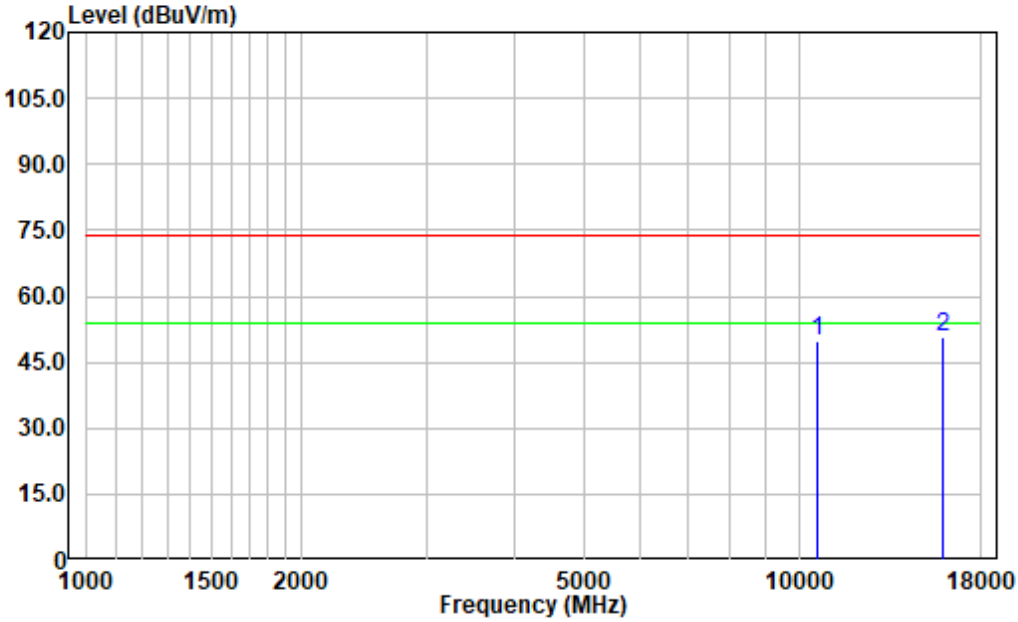
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10620.000	12.62	37.82	41.75	49.95	74.00	-24.05	Peak
2	15930.000	14.87	40.37	34.54	50.66	74.00	-23.34	Peak

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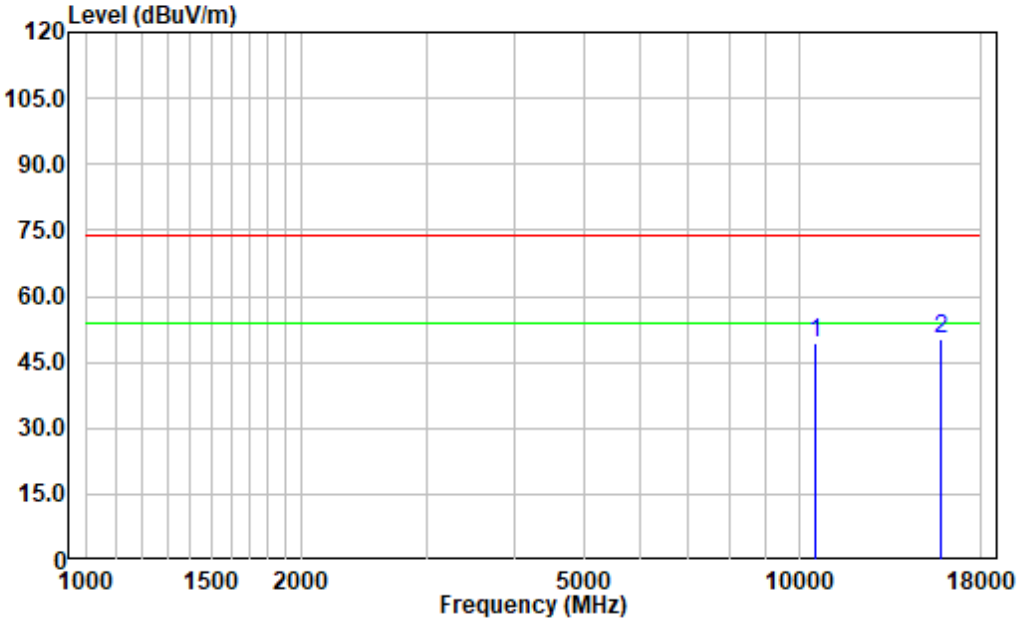
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10580.000	12.62	37.78	41.53	49.56	74.00	-24.44	Peak
2	15870.000	14.82	40.34	34.27	50.39	74.00	-23.61	Peak

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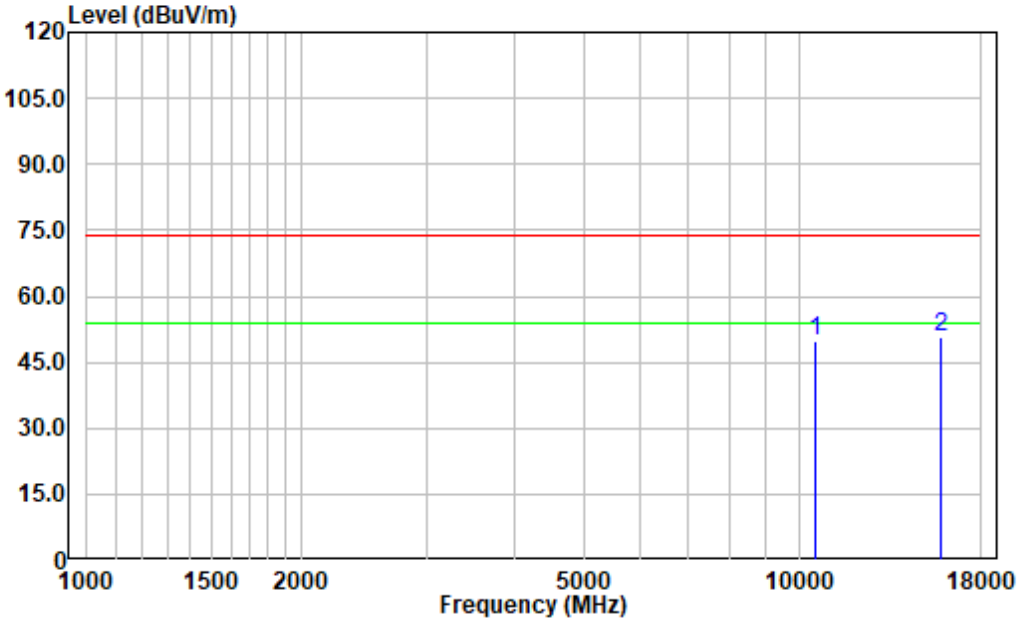
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10580.000	12.62	37.78	41.85	49.88	74.00	-24.12	Peak
2	15870.000	14.82	40.34	34.73	50.85	74.00	-23.15	Peak

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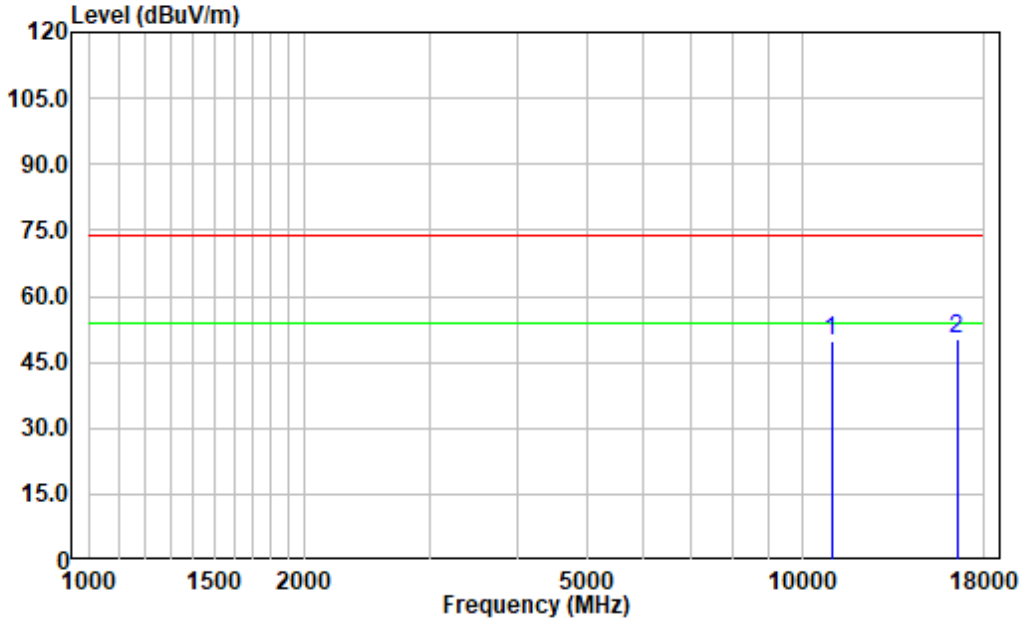
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11000.000	12.77	38.17	41.82	49.74	74.00	-24.26	Peak
2	16500.000	15.42	40.59	32.62	50.40	74.00	-23.60	Peak

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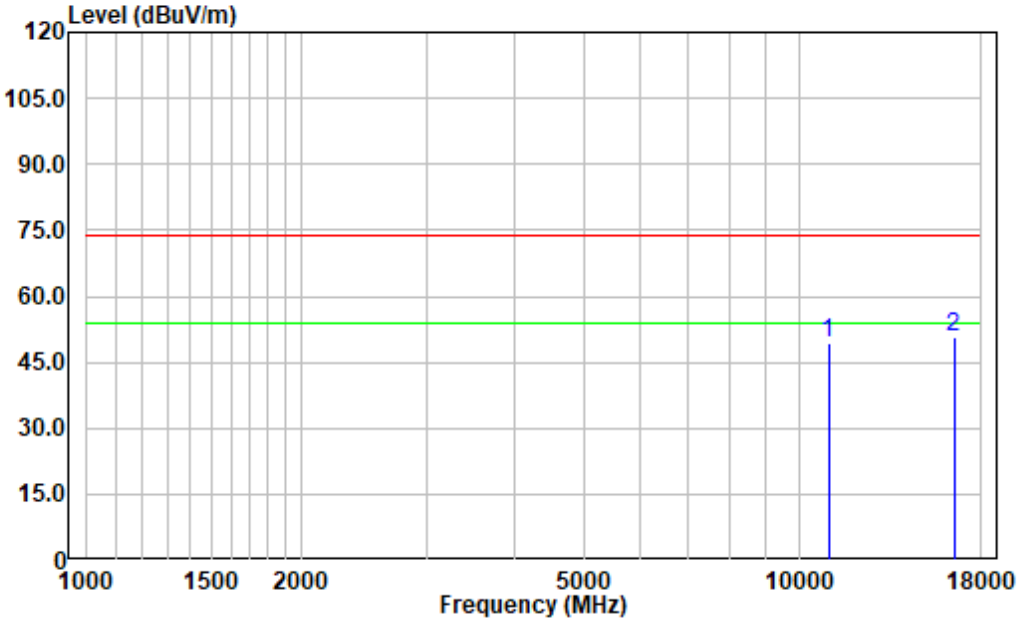
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11000.000	12.77	38.17	41.31	49.23	74.00	-24.77	Peak
2	16500.000	15.42	40.59	32.84	50.62	74.00	-23.38	Peak

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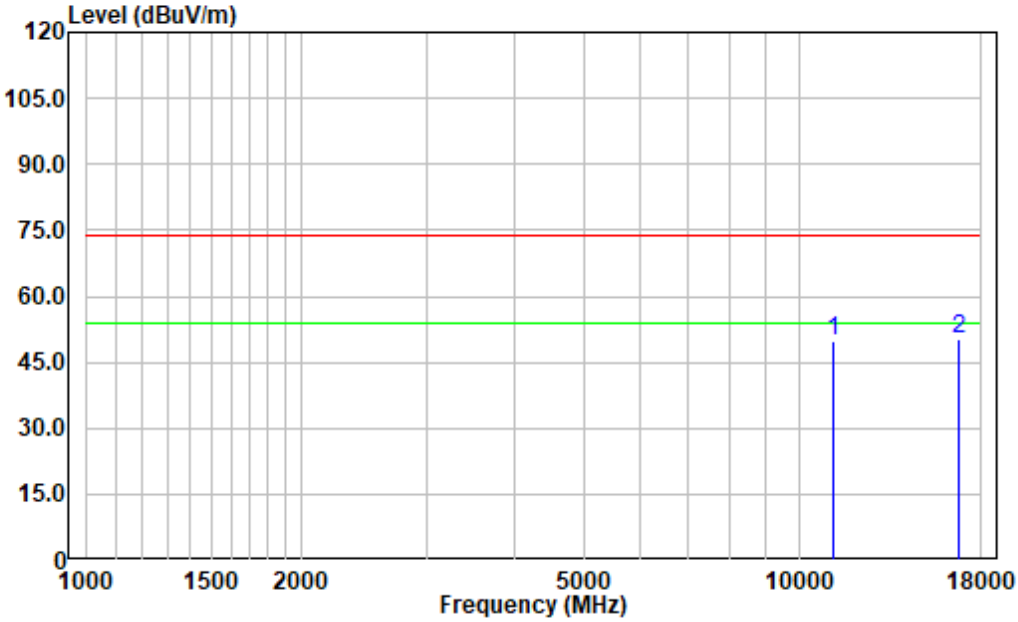
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11200.000	12.89	38.36	41.04	49.78	74.00	-24.22	Peak
2	16800.000	15.71	40.71	34.04	50.45	74.00	-23.55	Peak

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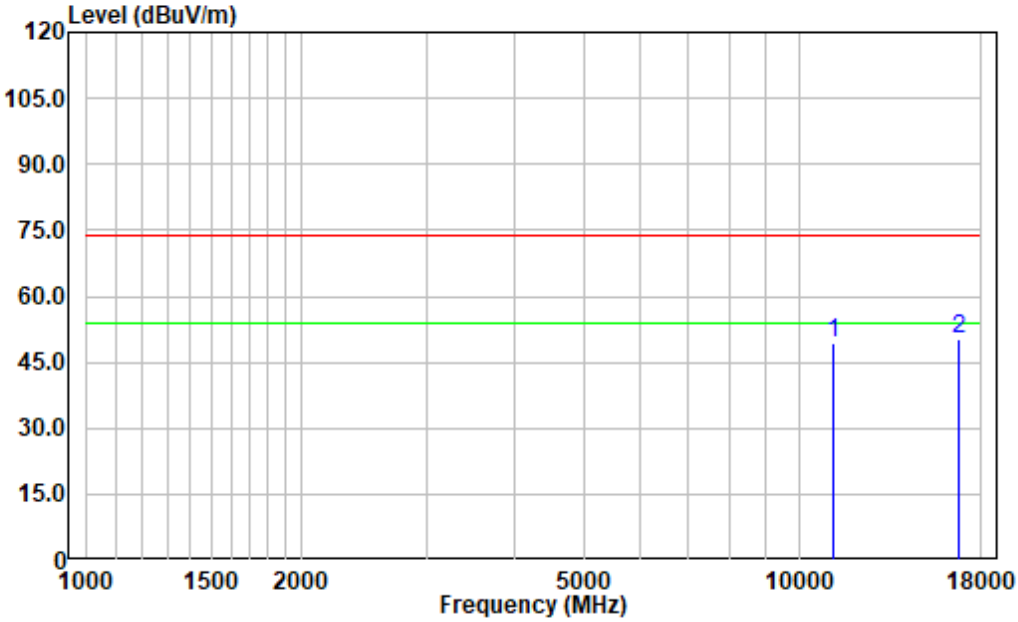
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11200.000	12.89	38.36	40.51	49.25	74.00	-24.75	Peak
2	16800.000	15.71	40.71	33.67	50.08	74.00	-23.92	Peak

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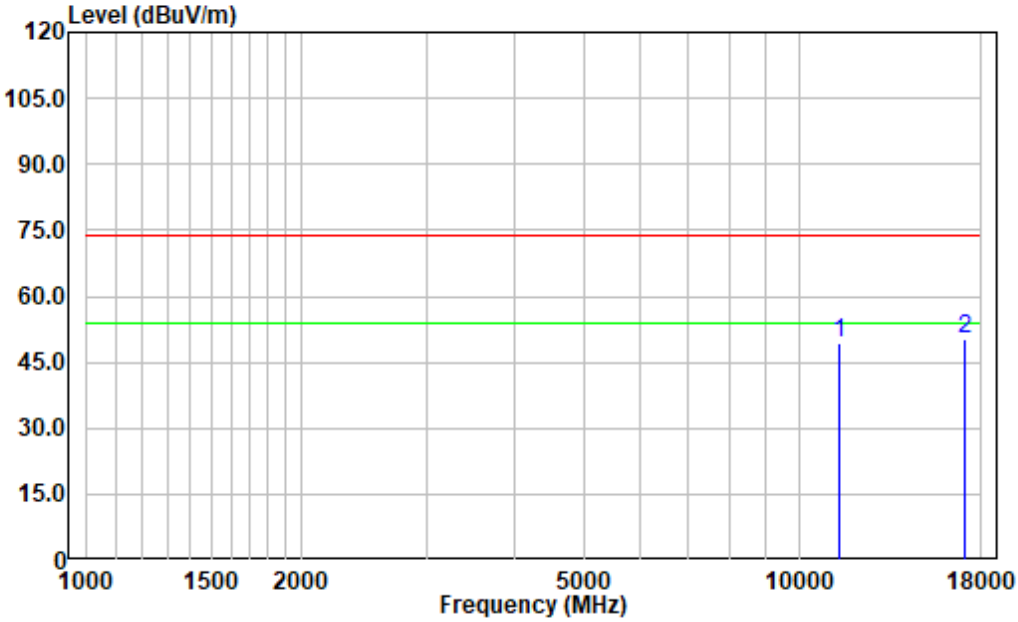
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11400.000	13.02	38.56	40.00	49.18	74.00	-24.82	Peak
2	17100.000	16.00	40.83	30.48	50.48	74.00	-23.52	Peak

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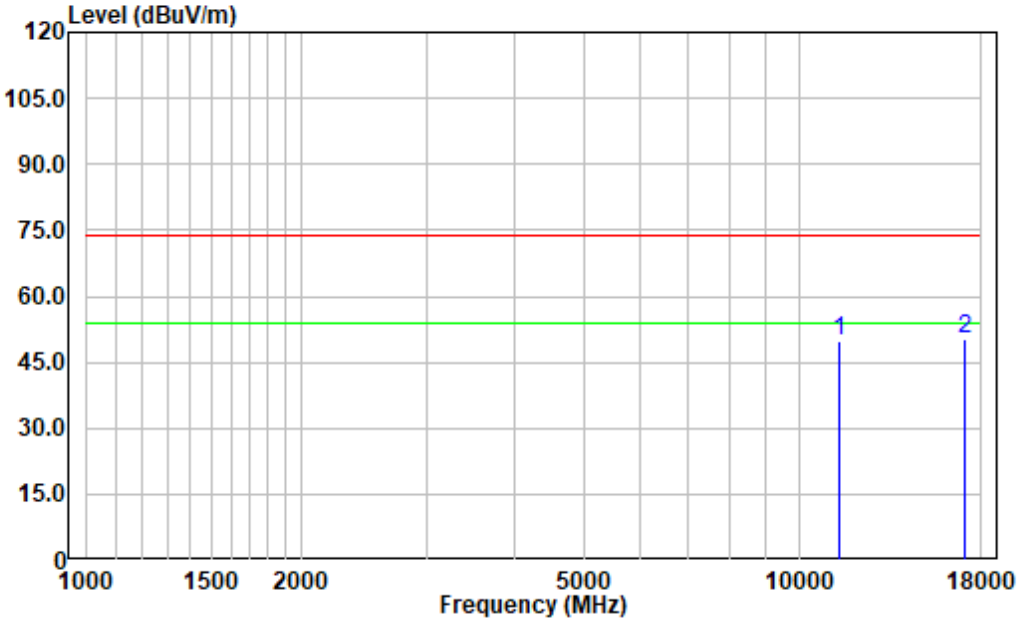
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11400.000	13.02	38.56	40.56	49.74	74.00	-24.26	Peak
2	17100.000	16.00	40.83	30.22	50.22	74.00	-23.78	Peak

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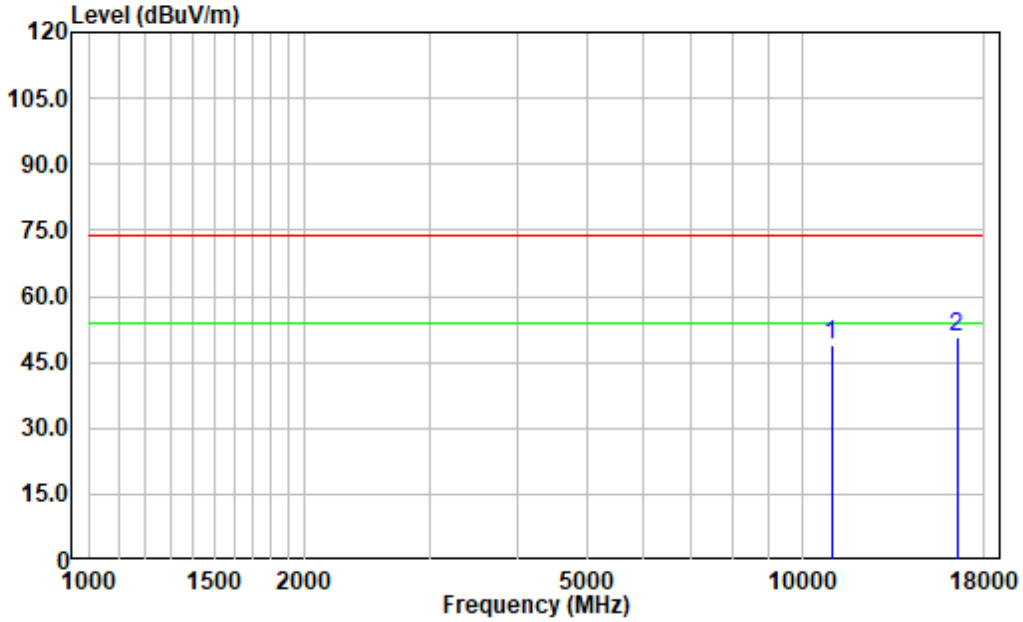
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11000.000	12.77	38.17	41.17	49.09	74.00	-24.91	Peak
2	16500.000	15.42	40.59	32.94	50.72	74.00	-23.28	Peak

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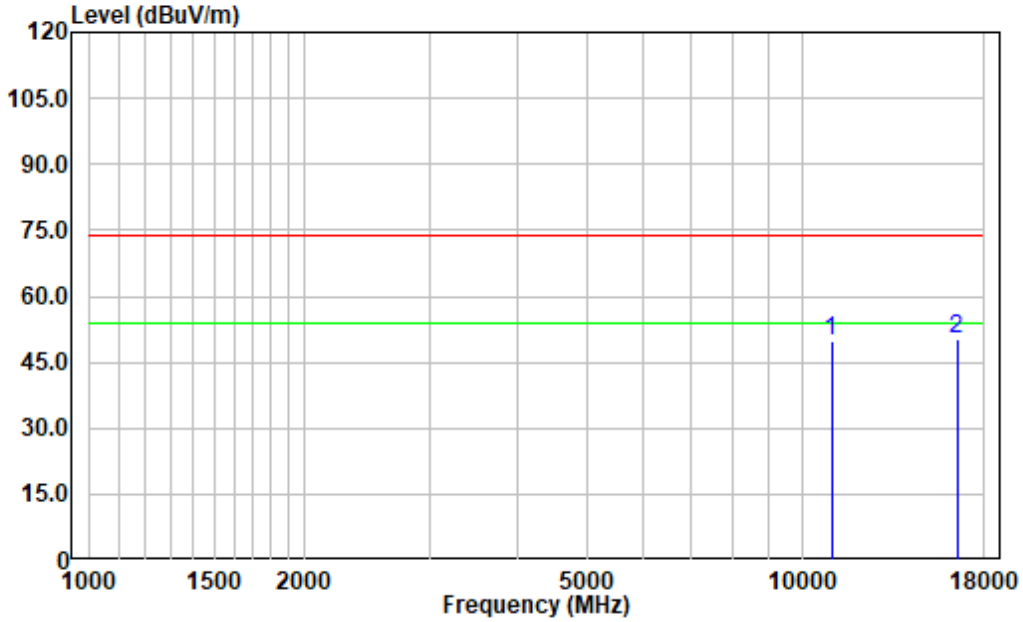
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11000.000	12.77	38.17	42.03	49.95	74.00	-24.05	Peak
2	16500.000	15.42	40.59	32.57	50.35	74.00	-23.65	Peak

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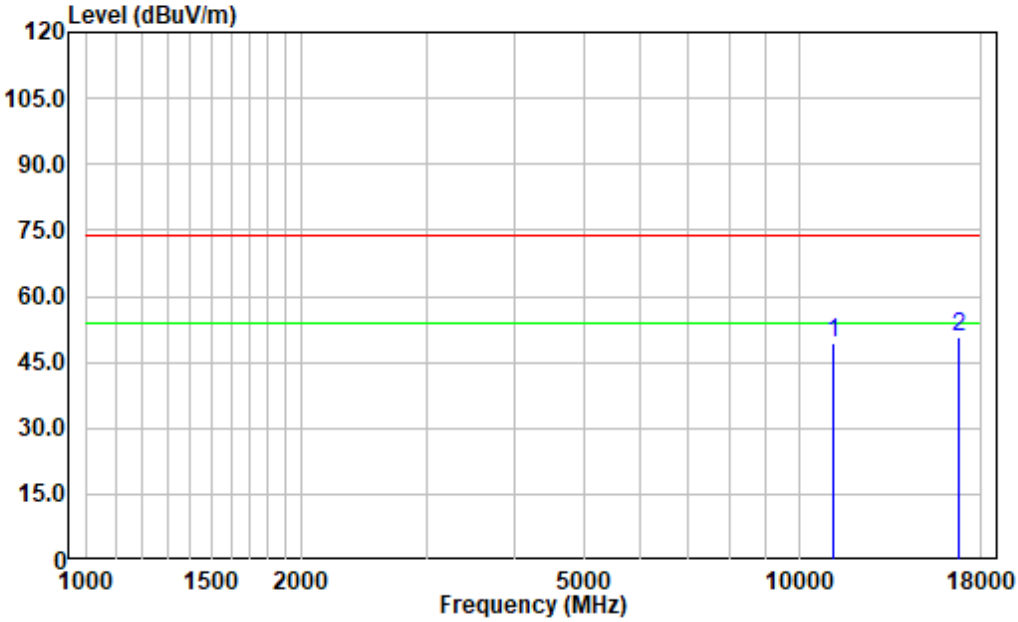
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11200.000	12.89	38.36	40.47	49.21	74.00	-24.79	Peak
2	16800.000	15.71	40.71	34.41	50.82	74.00	-23.18	Peak

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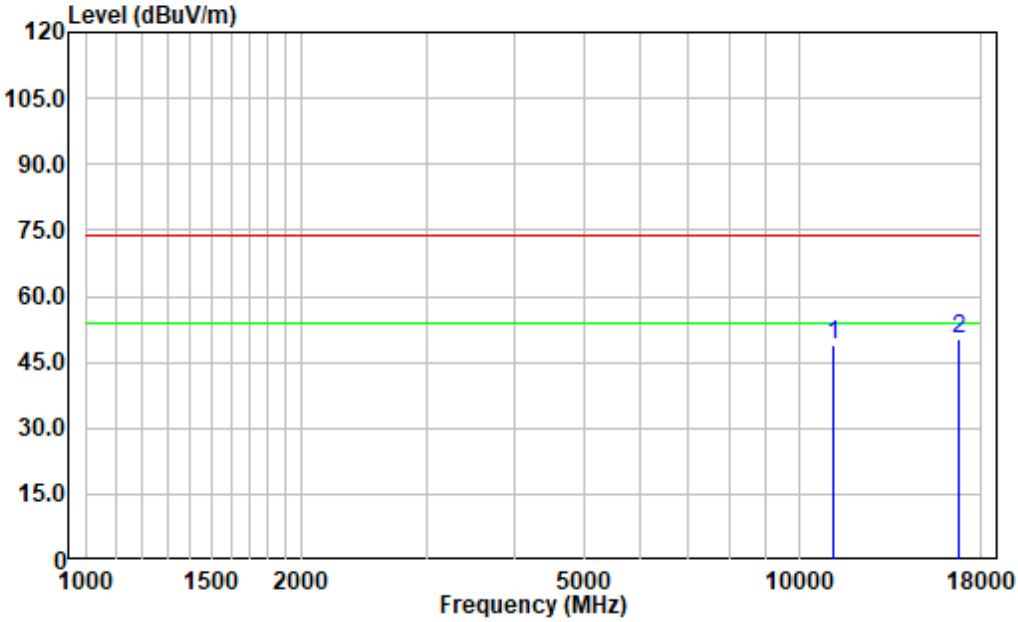
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11200.000	12.89	38.36	40.27	49.01	74.00	-24.99	Peak
2	16800.000	15.71	40.71	34.04	50.45	74.00	-23.55	Peak

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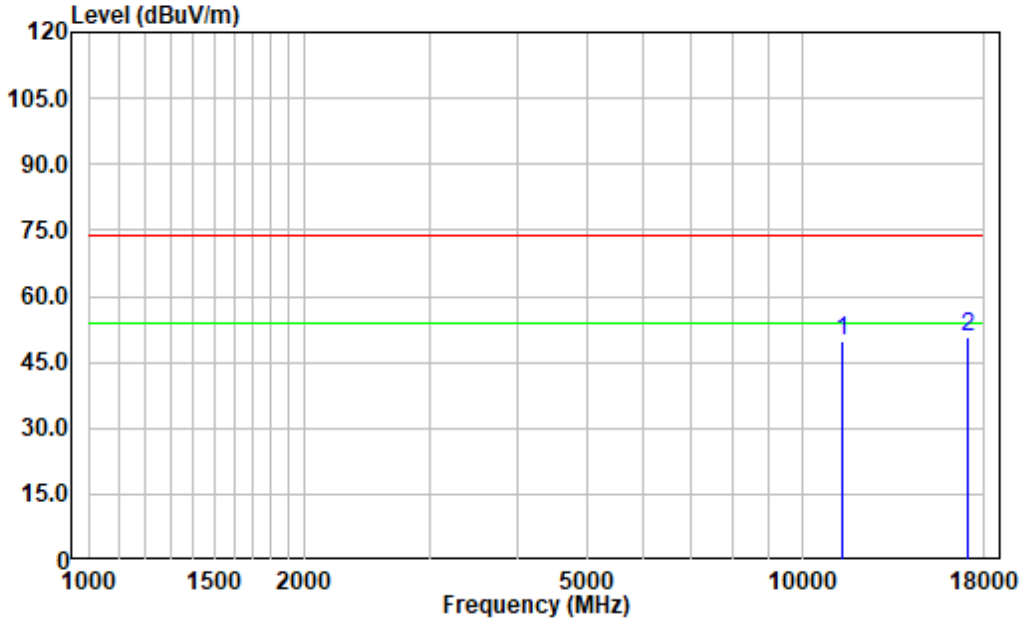
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11400.000	13.02	38.56	40.54	49.72	74.00	-24.28	Peak
2	17100.000	16.00	40.83	30.67	50.67	74.00	-23.33	Peak

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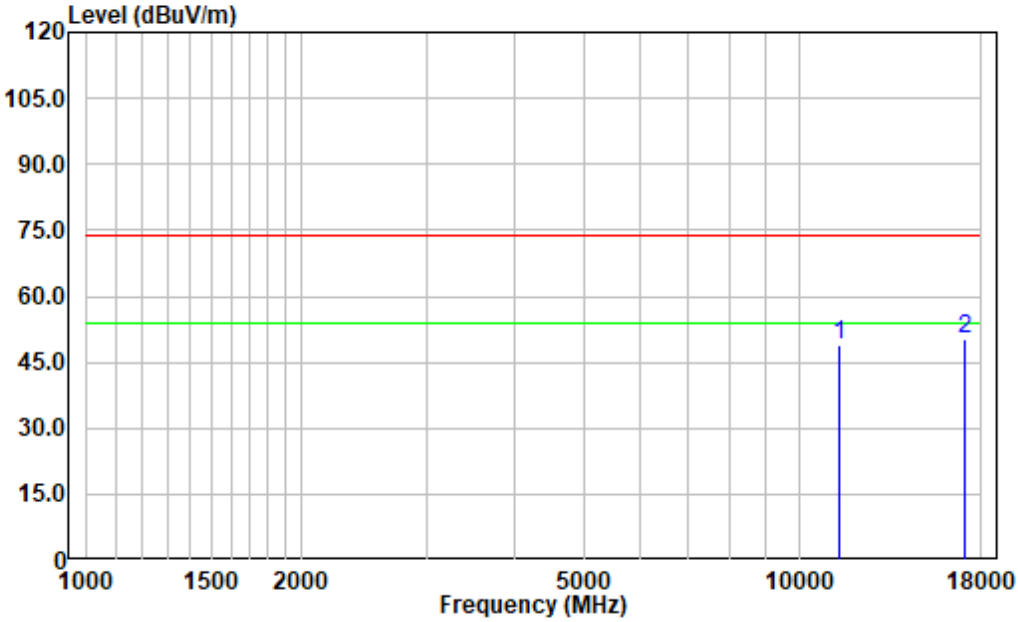
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11400.000	13.02	38.56	39.86	49.04	74.00	-24.96	Peak
2	17100.000	16.00	40.83	30.41	50.41	74.00	-23.59	Peak

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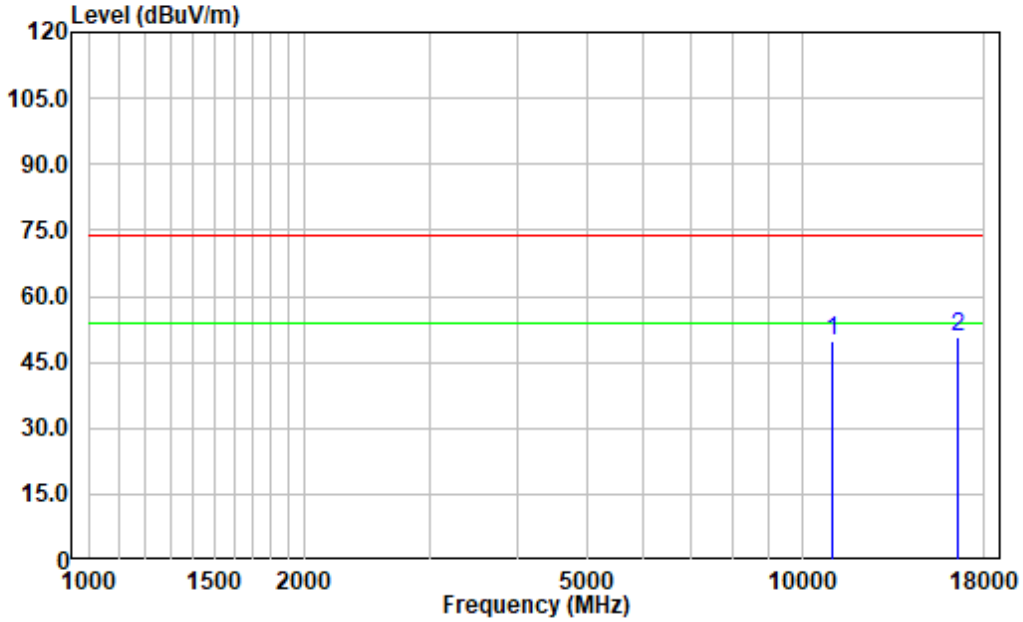
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11020.000	12.78	38.19	41.70	49.79	74.00	-24.21	Peak
2	16530.000	15.45	40.60	32.79	50.61	74.00	-23.39	Peak

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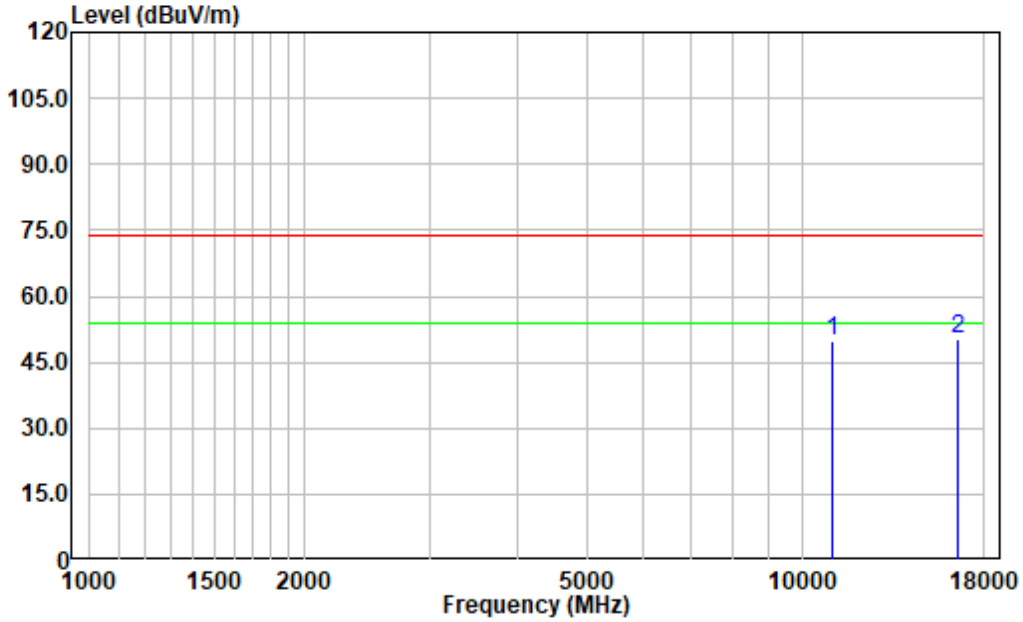
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11020.000	12.78	38.19	41.70	49.79	74.00	-24.21	Peak
2	16530.000	15.45	40.60	32.33	50.15	74.00	-23.85	Peak

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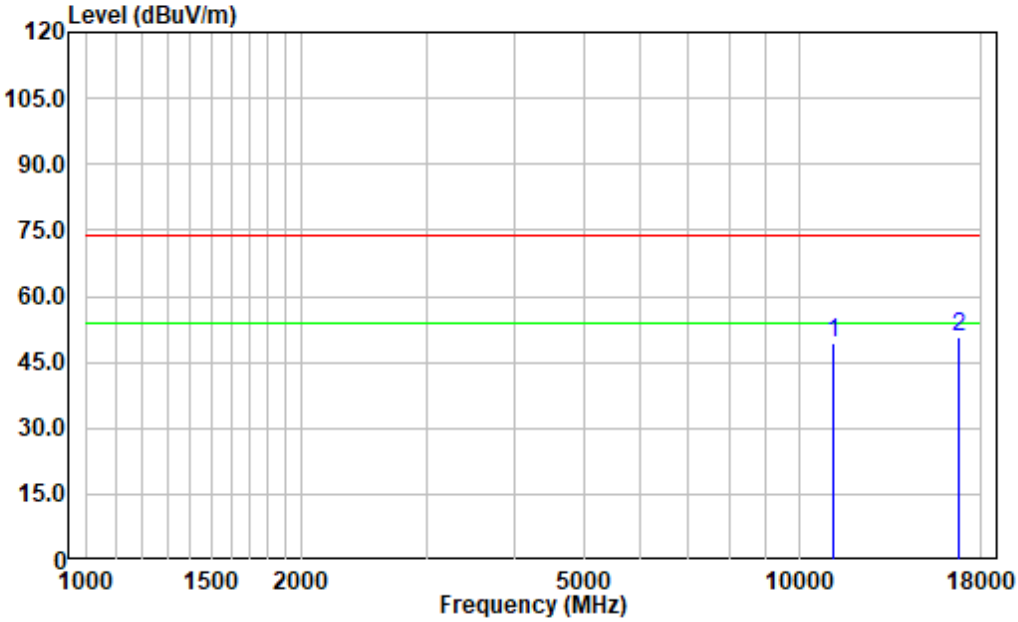
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11180.000	12.88	38.34	40.48	49.23	74.00	-24.77	Peak
2	16770.000	15.68	40.70	33.95	50.58	74.00	-23.42	Peak

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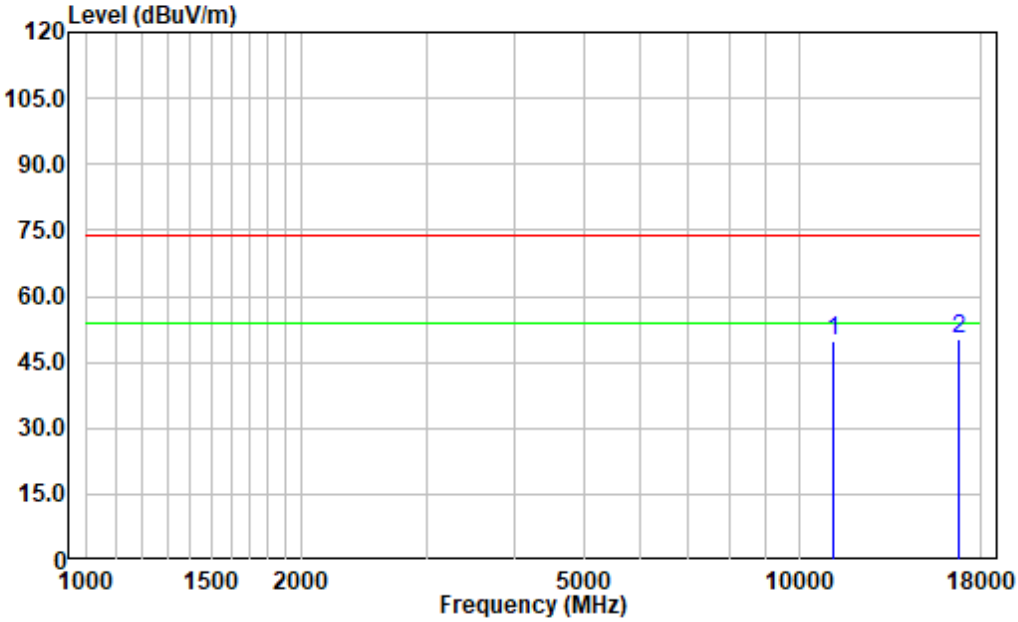
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11180.000	12.88	38.34	41.02	49.77	74.00	-24.23	Peak
2	16770.000	15.68	40.70	33.53	50.16	74.00	-23.84	Peak

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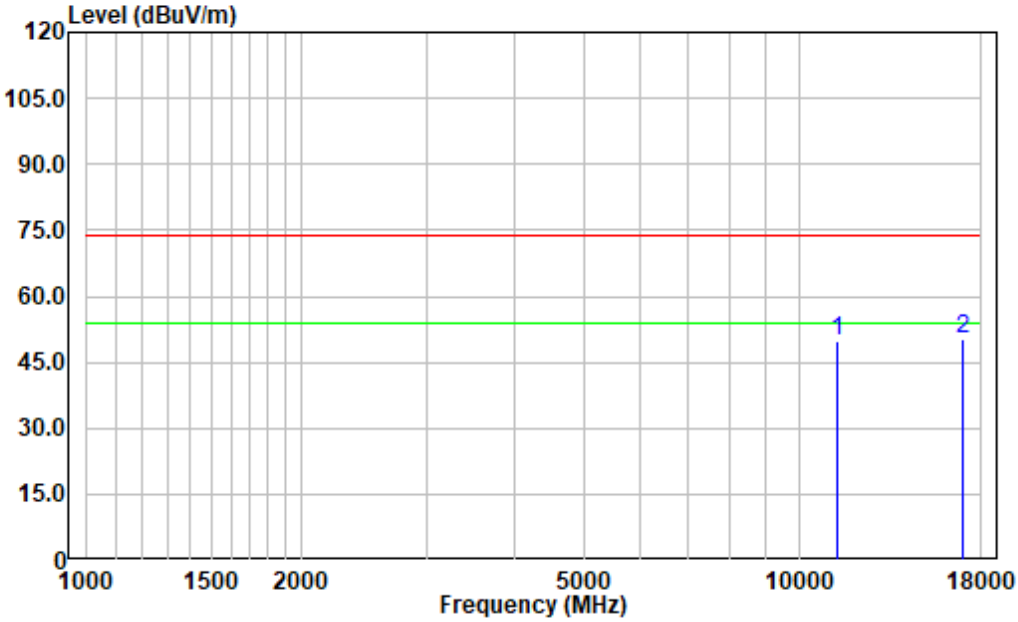
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11340.000	12.98	38.50	40.48	49.73	74.00	-24.27	Peak
2	17010.000	15.91	40.80	31.52	50.17	74.00	-23.83	Peak

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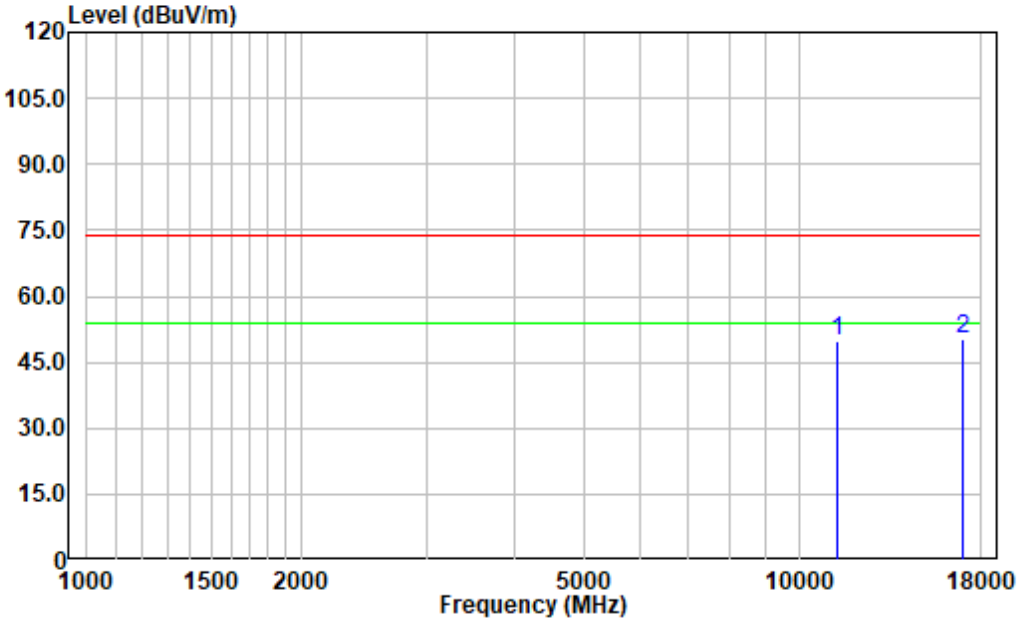
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11340.000	12.98	38.50	40.52	49.77	74.00	-24.23	Peak
2	17010.000	15.91	40.80	31.51	50.16	74.00	-23.84	Peak

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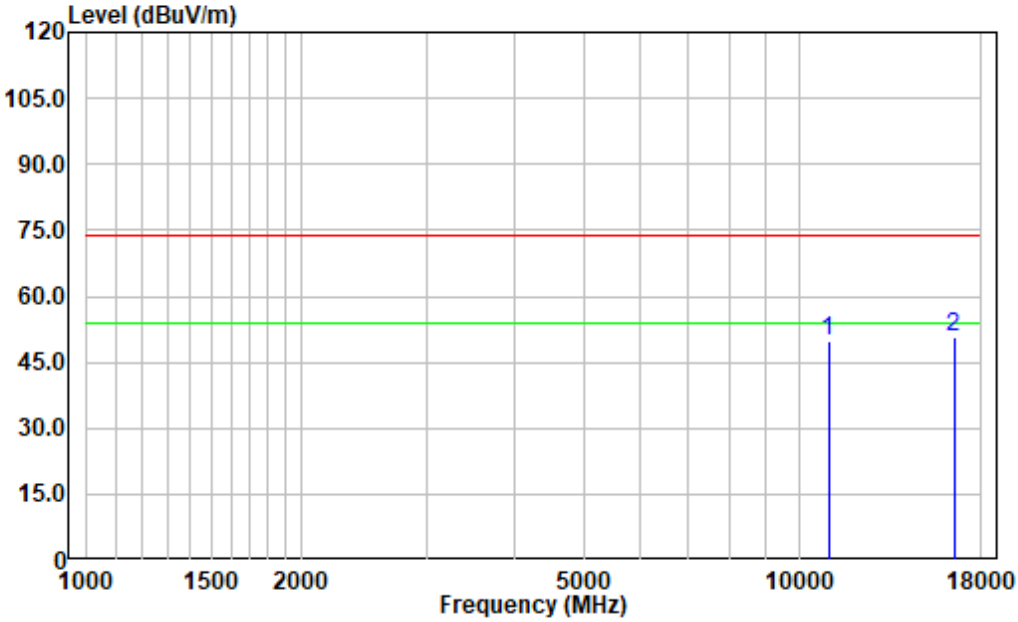
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11000.000	12.77	38.17	42.05	49.97	74.00	-24.03	Peak
2	16500.000	15.42	40.59	33.07	50.85	74.00	-23.15	Peak

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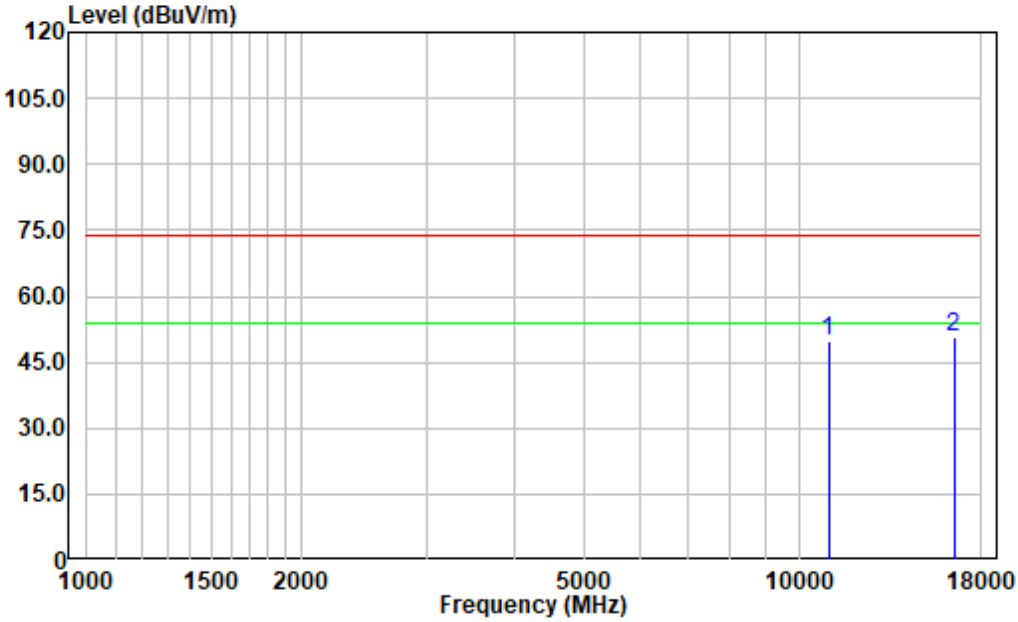
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11000.000	12.77	38.17	41.79	49.71	74.00	-24.29	Peak
2	16500.000	15.42	40.59	32.96	50.74	74.00	-23.26	Peak

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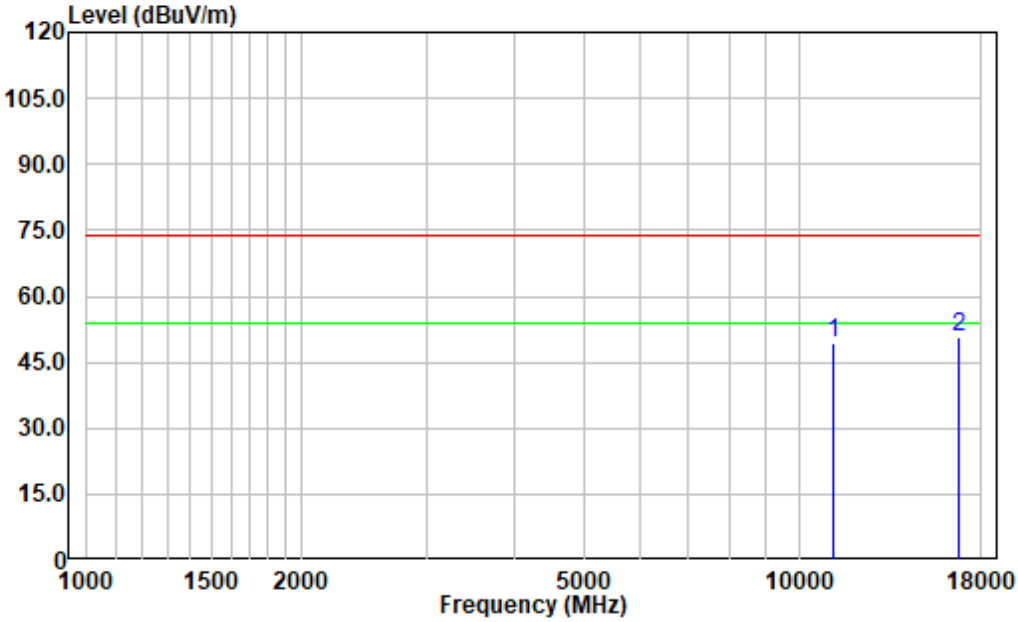
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11200.000	12.89	38.36	40.57	49.31	74.00	-24.69	Peak
2	16800.000	15.71	40.71	34.28	50.69	74.00	-23.31	Peak

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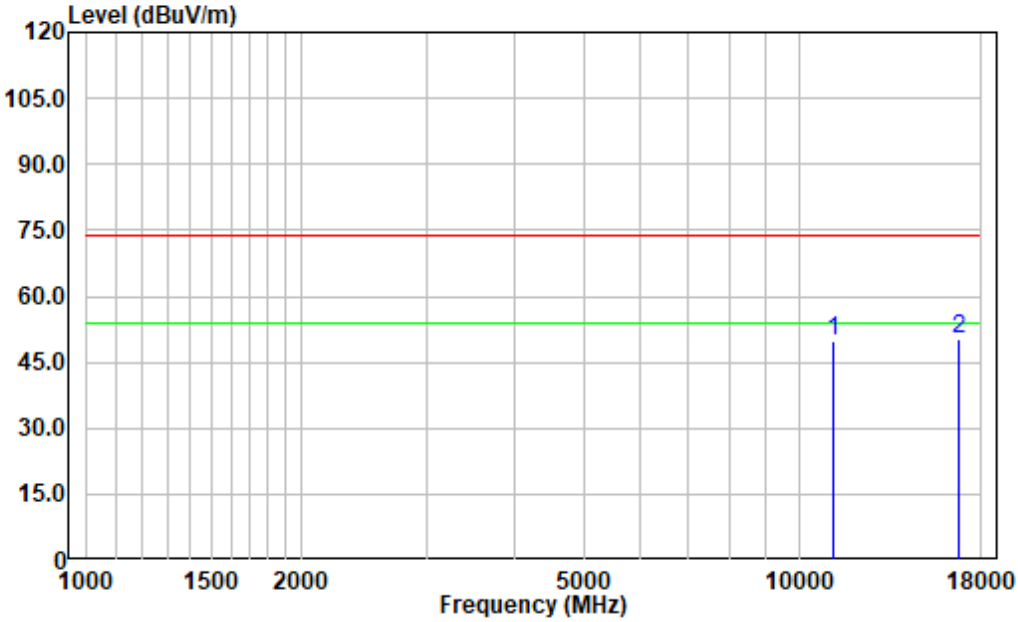
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11200.000	12.89	38.36	41.12	49.86	74.00	-24.14	Peak
2	16800.000	15.71	40.71	33.69	50.10	74.00	-23.90	Peak

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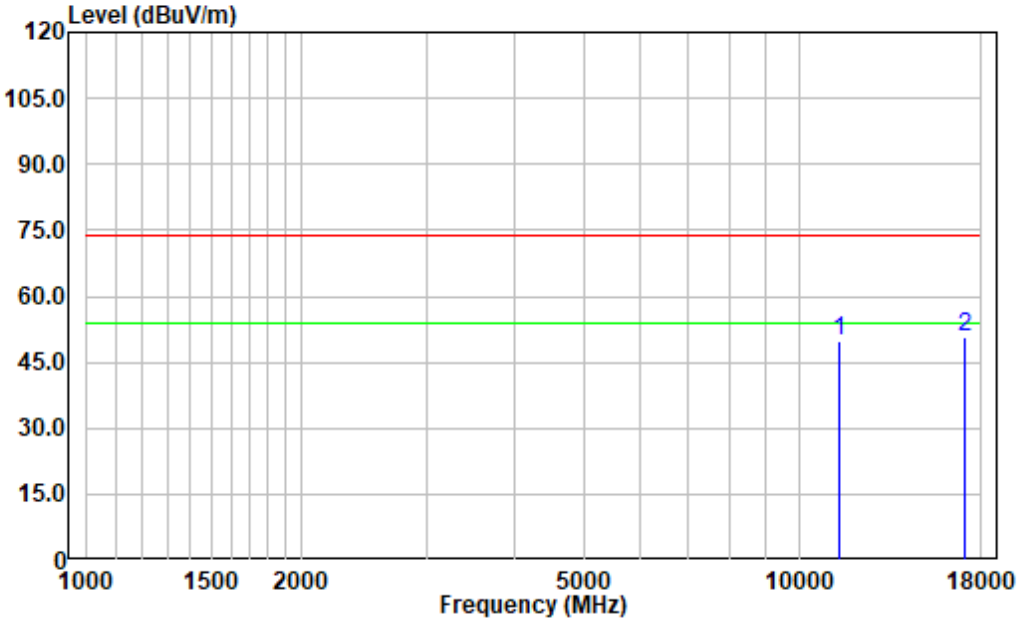
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11400.000	13.02	38.56	40.55	49.73	74.00	-24.27	Peak
2	17100.000	16.00	40.83	30.53	50.53	74.00	-23.47	Peak

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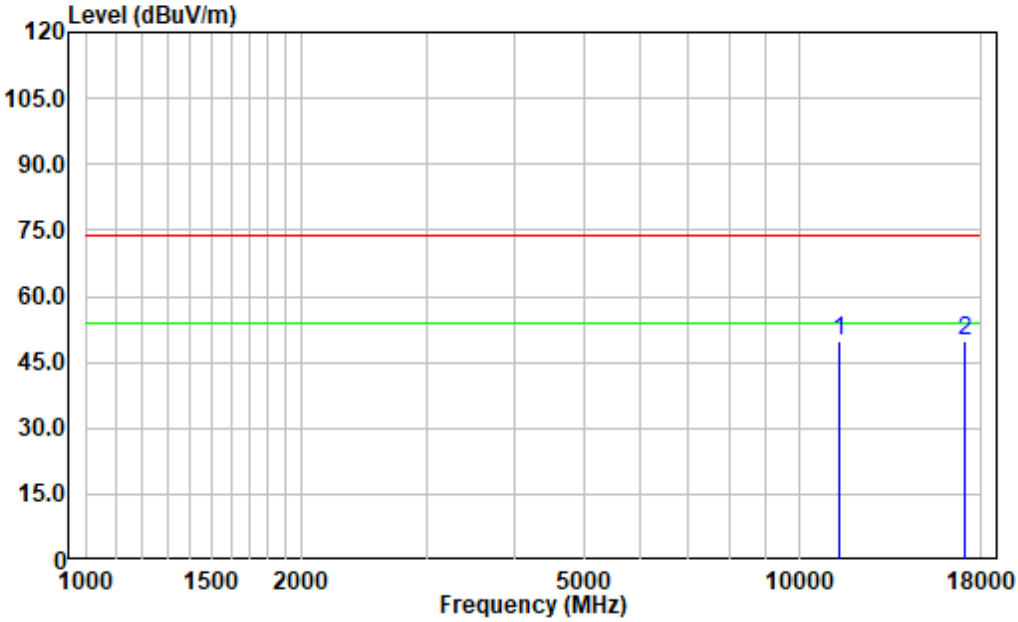
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11400.000	13.02	38.56	40.59	49.77	74.00	-24.23	Peak
2	17100.000	16.00	40.83	30.00	50.00	74.00	-24.00	Peak

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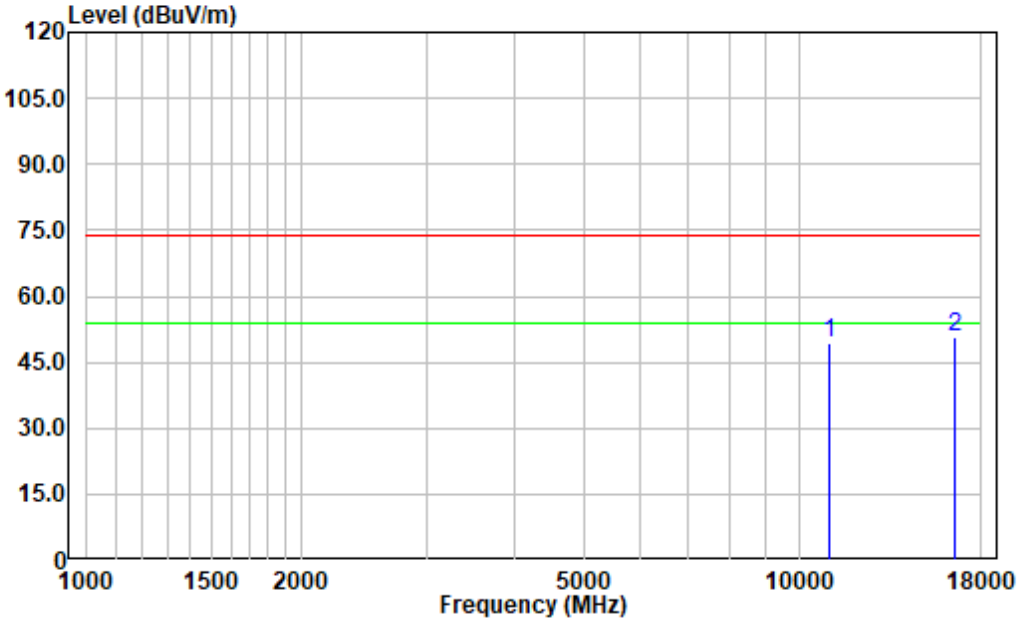
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11020.000	12.78	38.19	41.35	49.44	74.00	-24.56	Peak
2	16530.000	15.45	40.60	32.94	50.76	74.00	-23.24	Peak

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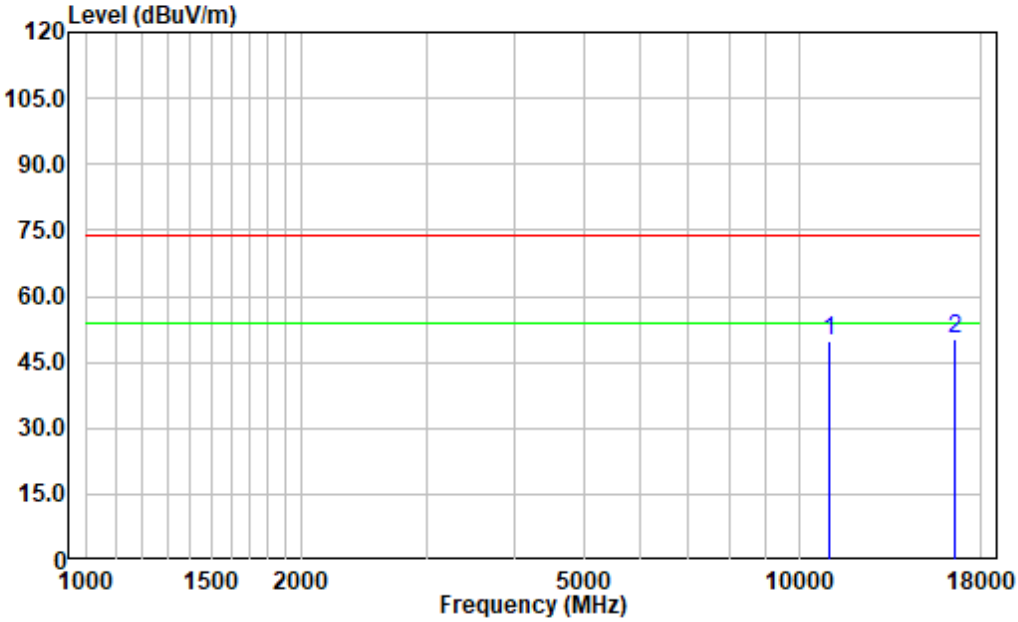
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11020.000	12.78	38.19	41.64	49.73	74.00	-24.27	Peak
2	16530.000	15.45	40.60	32.52	50.34	74.00	-23.66	Peak

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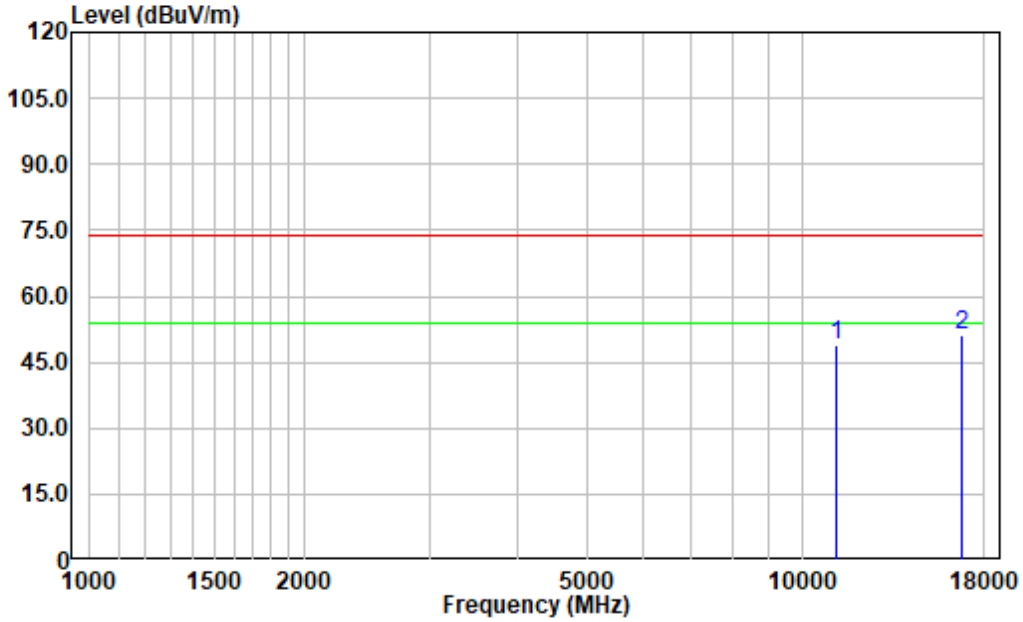
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11180.000	12.88	38.34	40.35	49.10	74.00	-24.90	Peak
2	16770.000	15.68	40.70	34.36	50.99	74.00	-23.01	Peak

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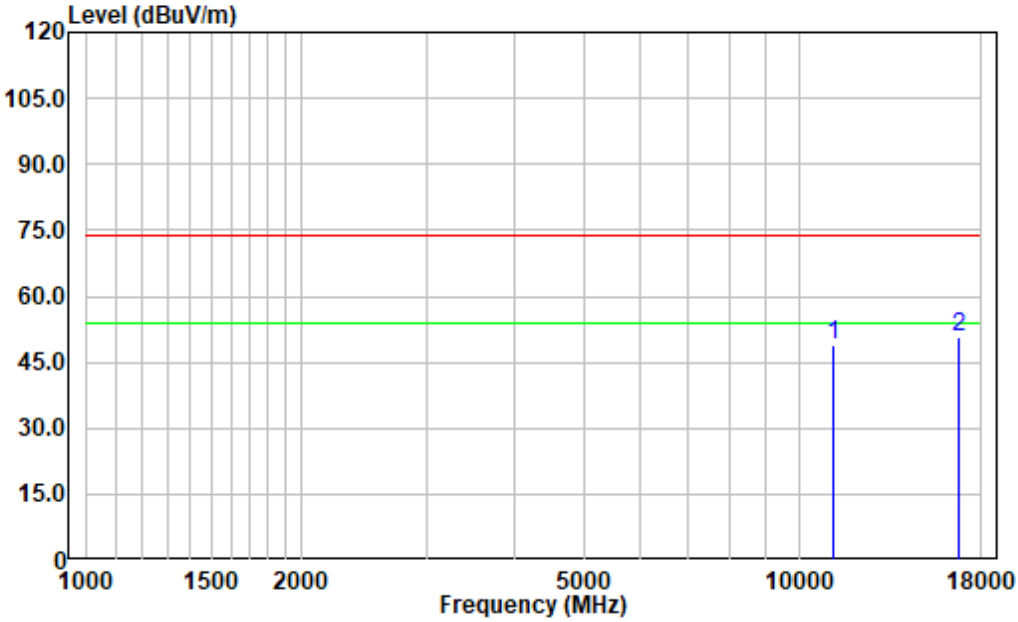
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11180.000	12.88	38.34	40.30	49.05	74.00	-24.95	Peak
2	16770.000	15.68	40.70	33.92	50.55	74.00	-23.45	Peak

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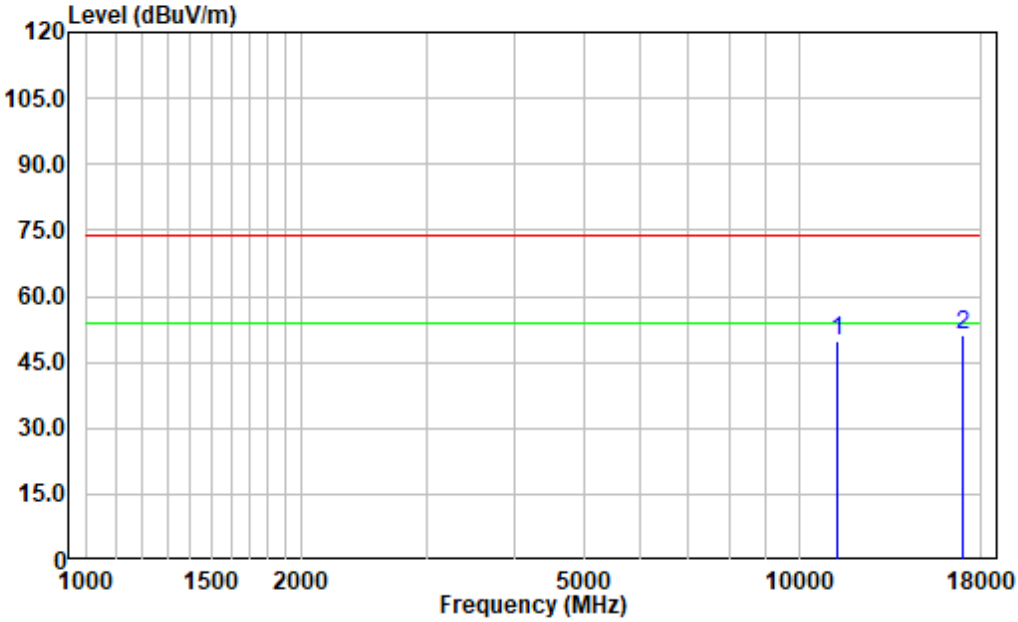
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11340.000	12.98	38.50	40.42	49.67	74.00	-24.33	Peak
2	17010.000	15.91	40.80	32.35	51.00	74.00	-23.00	Peak

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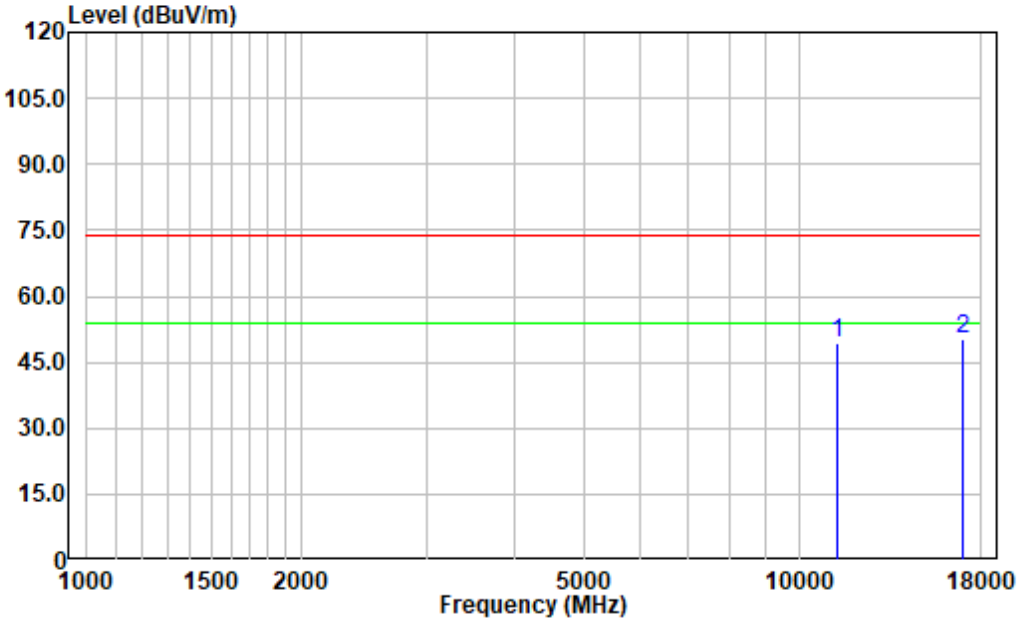
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11340.000	12.98	38.50	40.31	49.56	74.00	-24.44	Peak
2	17010.000	15.91	40.80	31.47	50.12	74.00	-23.88	Peak

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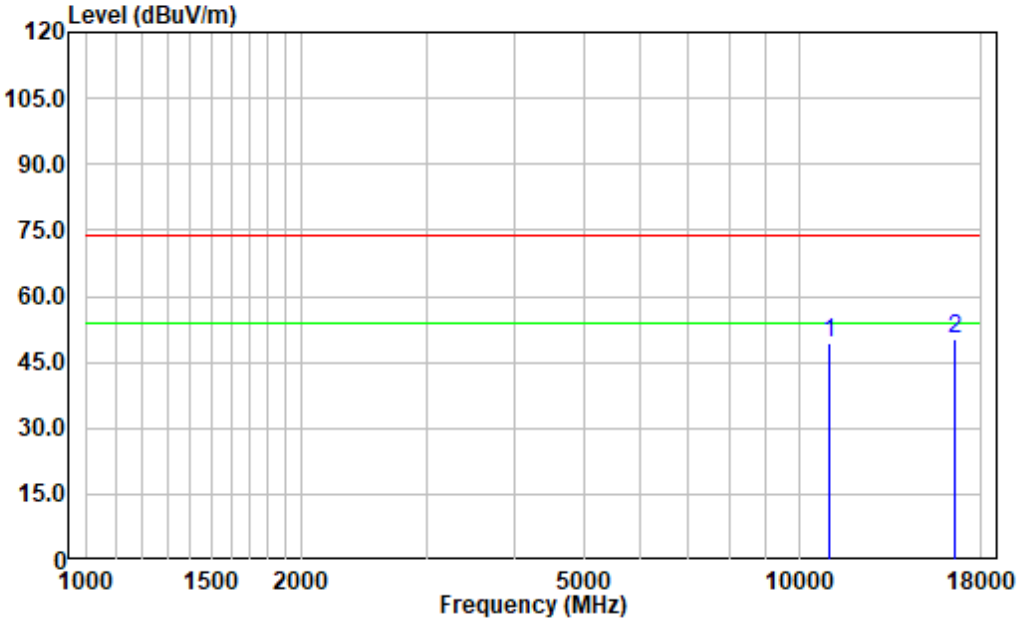
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11060.000	12.80	38.23	40.87	49.29	74.00	-24.71	Peak
2	16590.000	15.51	40.63	32.21	50.11	74.00	-23.89	Peak

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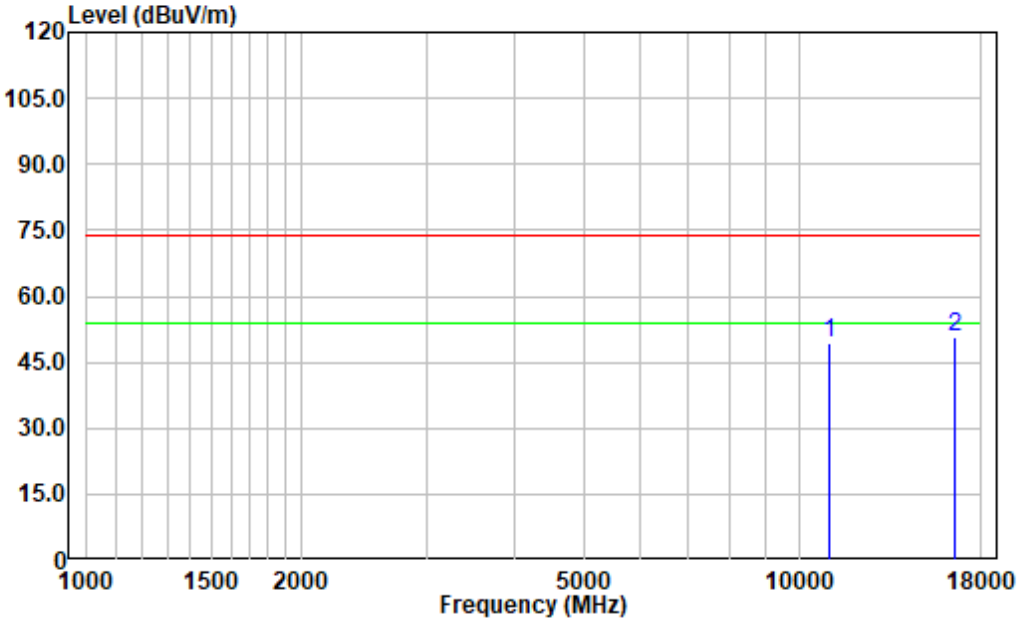
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11060.000	12.80	38.23	41.02	49.44	74.00	-24.56	Peak
2	16590.000	15.51	40.63	32.81	50.71	74.00	-23.29	Peak

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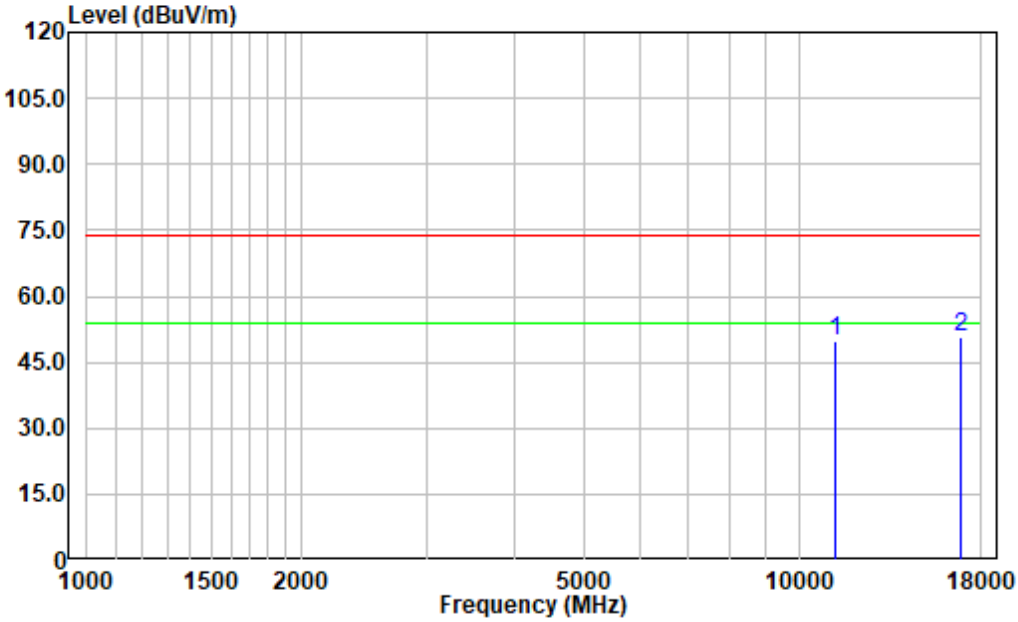
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11220.000	12.91	38.38	41.03	49.89	74.00	-24.11	Peak
2	16830.000	15.74	40.72	34.25	50.68	74.00	-23.32	Peak

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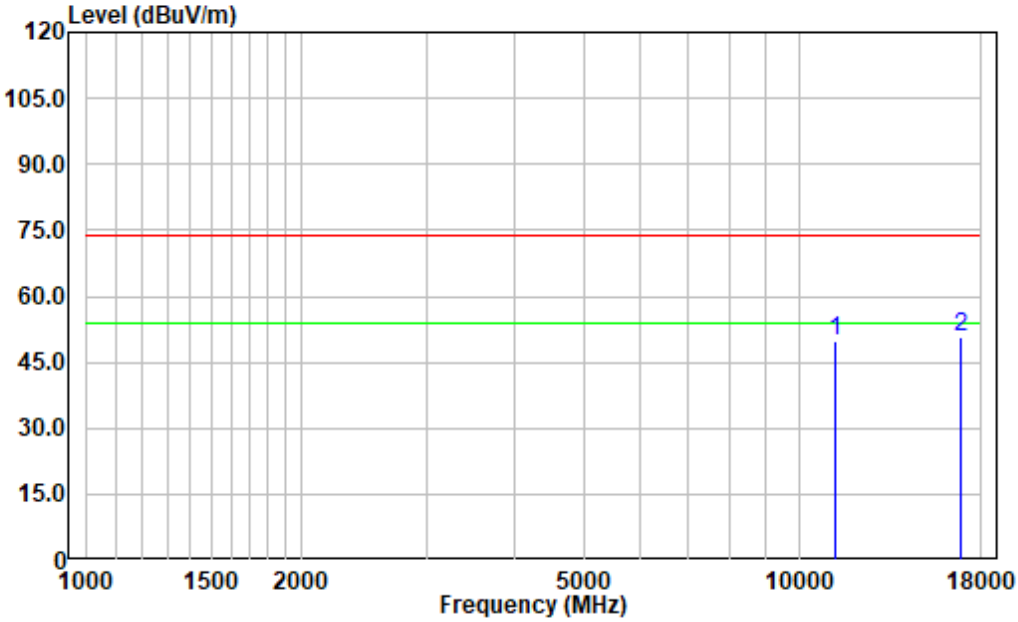
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11220.000	12.91	38.38	40.76	49.62	74.00	-24.38	Peak
2	16830.000	15.74	40.72	34.22	50.65	74.00	-23.35	Peak

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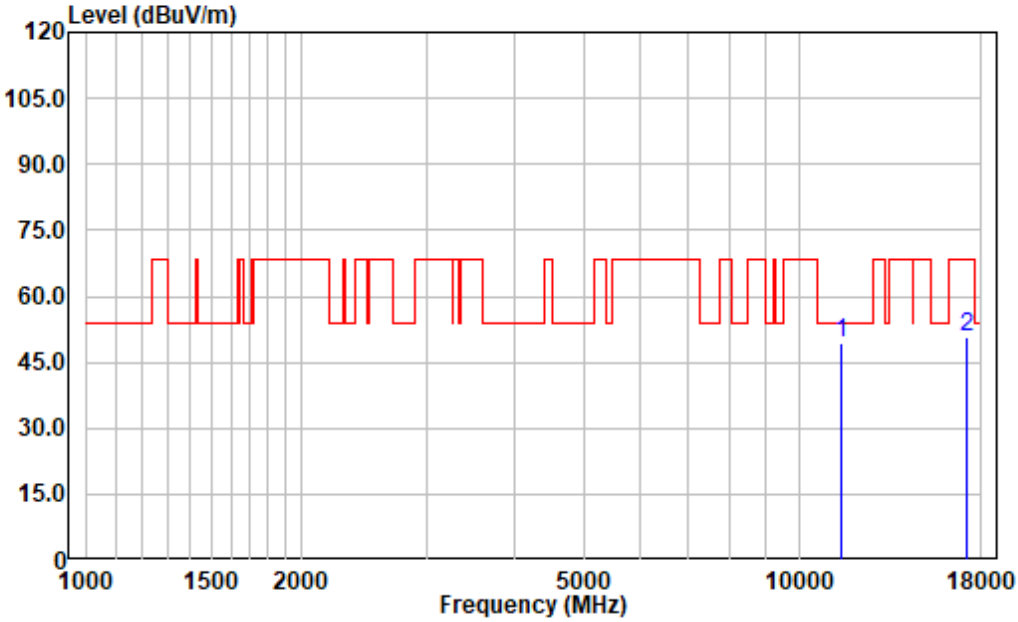
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	13.08	38.65	39.60	49.17	54.00	-4.83	Peak
2	17235.000	16.12	40.88	31.29	50.75	68.30	-17.55	Peak

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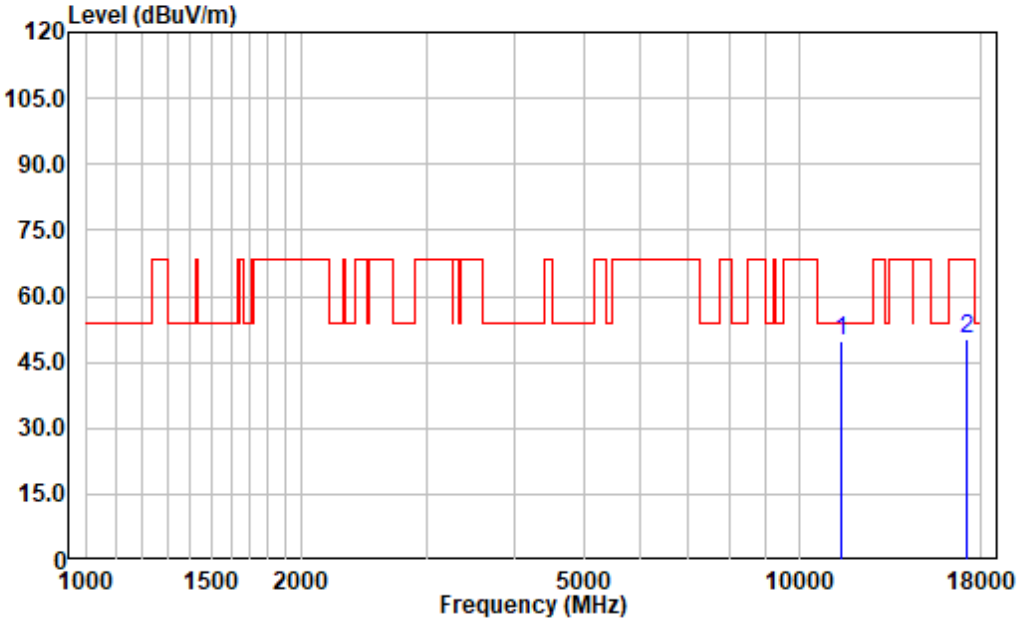
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	13.08	38.65	40.11	49.68	54.00	-4.32	Peak
2	17235.000	16.12	40.88	30.64	50.10	68.30	-18.20	Peak

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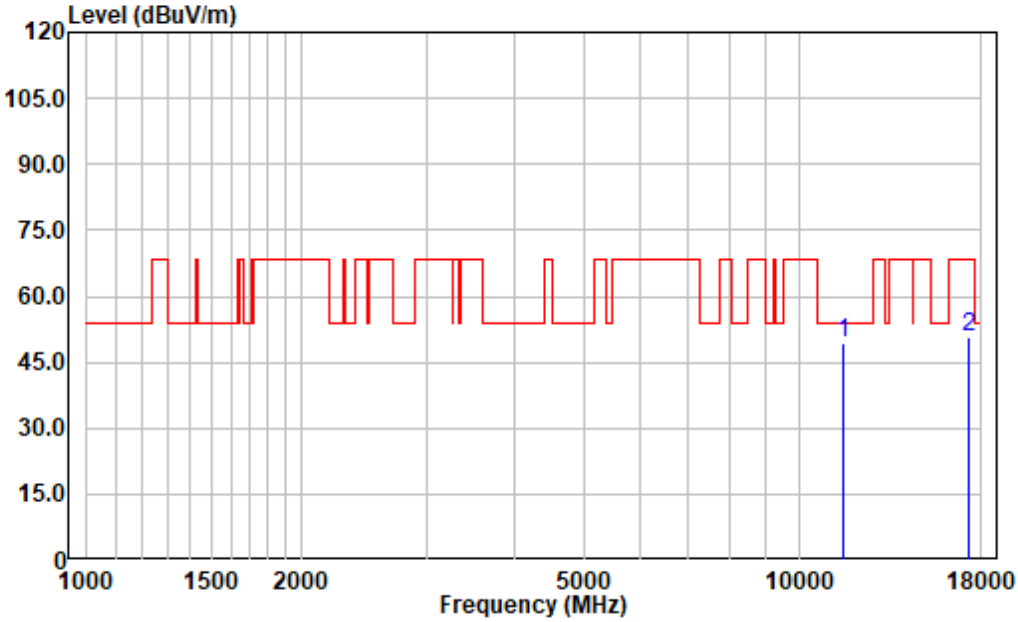
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11570.000	13.13	38.72	39.91	49.51	54.00	-4.49	Peak
2	17355.000	16.24	40.93	32.28	50.53	68.30	-17.77	Peak

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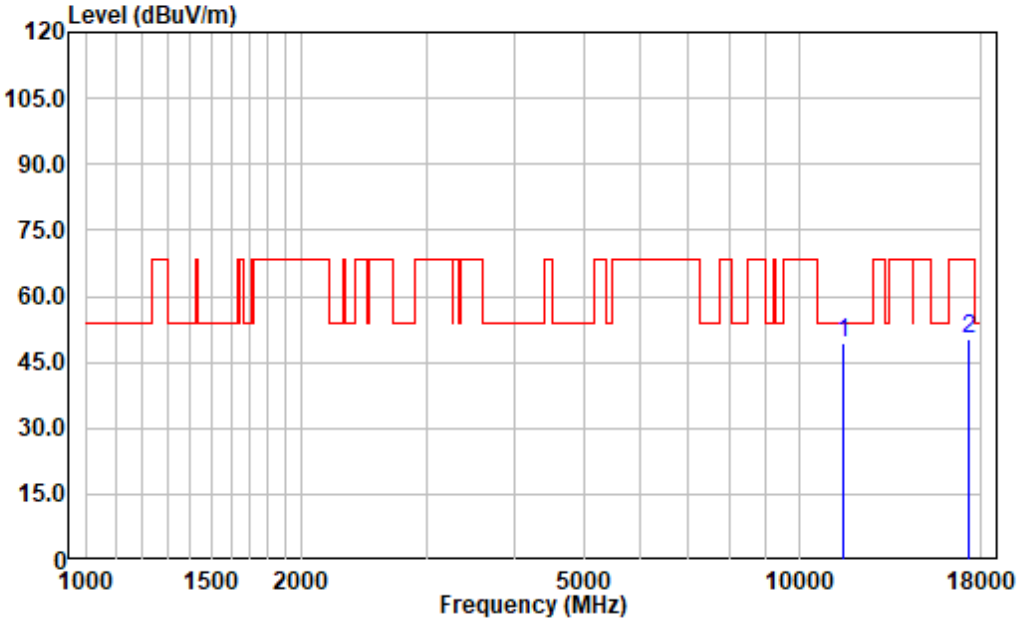
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11570.000	13.13	38.72	39.93	49.53	54.00	-4.47	Peak
2	17355.000	16.24	40.93	32.16	50.41	68.30	-17.89	Peak

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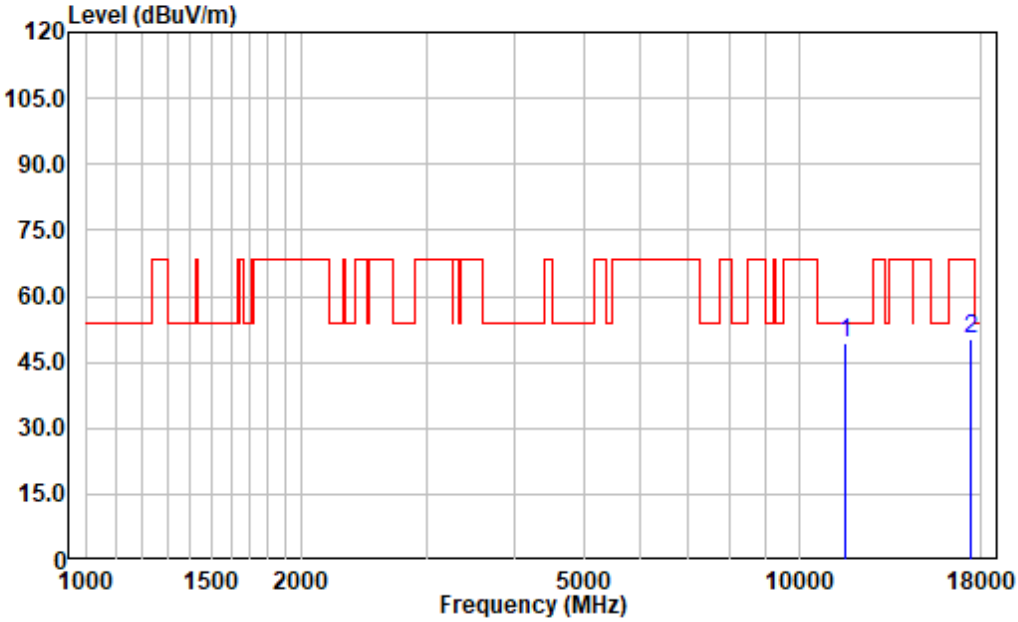
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11650.000	13.18	38.80	39.72	49.30	54.00	-4.70	Peak
2	17475.000	16.33	40.97	32.91	50.32	68.30	-17.98	Peak

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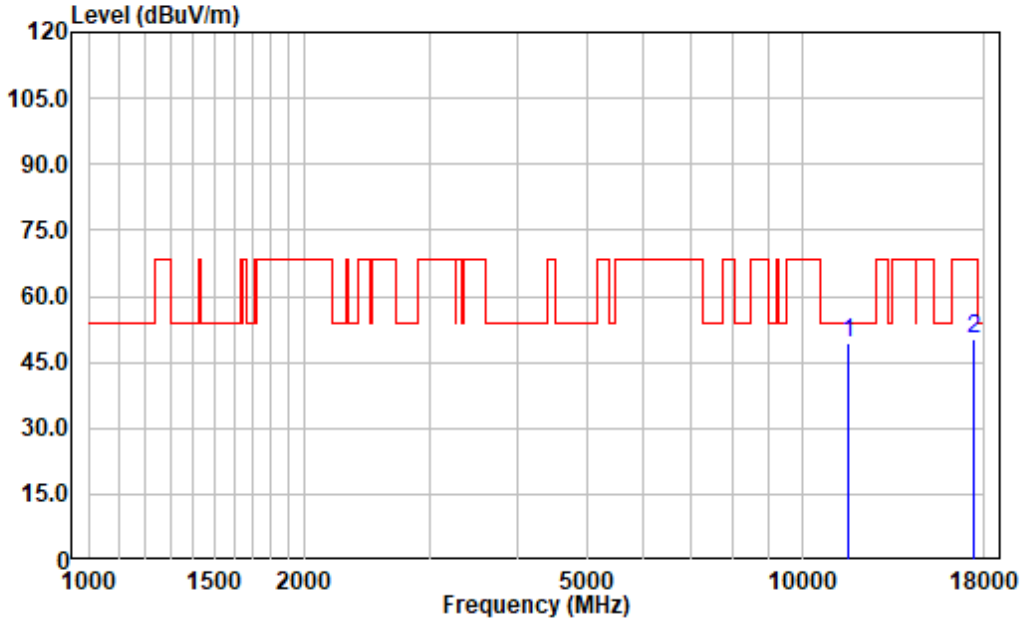
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11650.000	13.18	38.80	39.69	49.27	54.00	-4.73	Peak
2	17475.000	16.33	40.97	32.68	50.09	68.30	-18.21	Peak

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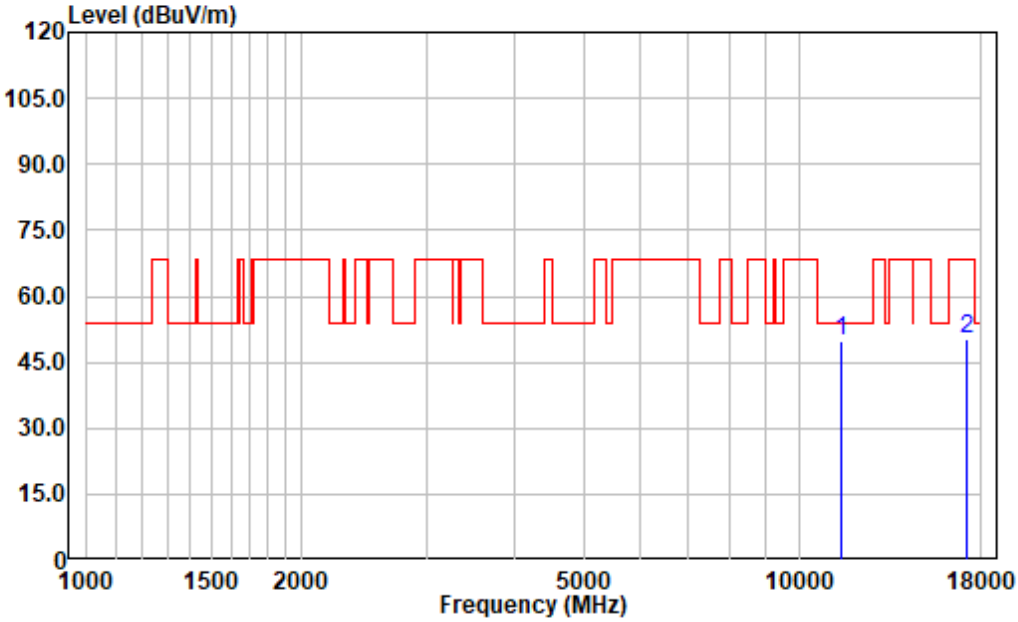
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	13.08	38.65	40.16	49.73	54.00	-4.27	Peak
2	17235.000	16.12	40.88	30.85	50.31	68.30	-17.99	Peak

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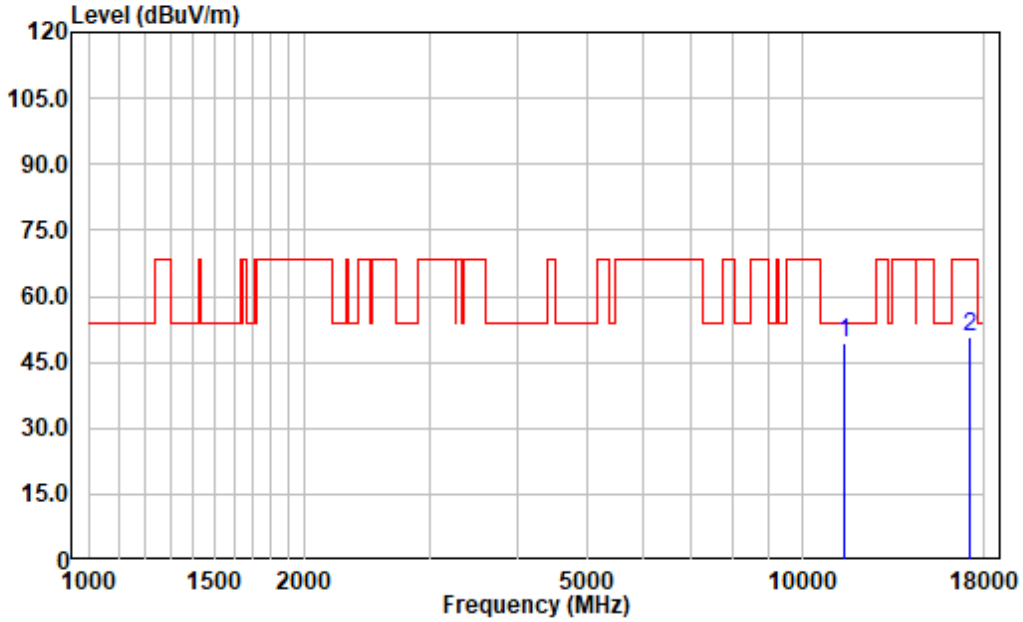
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	13.08	38.65	39.63	49.20	54.00	-4.80	Peak
2	17235.000	16.12	40.88	31.20	50.66	68.30	-17.64	Peak

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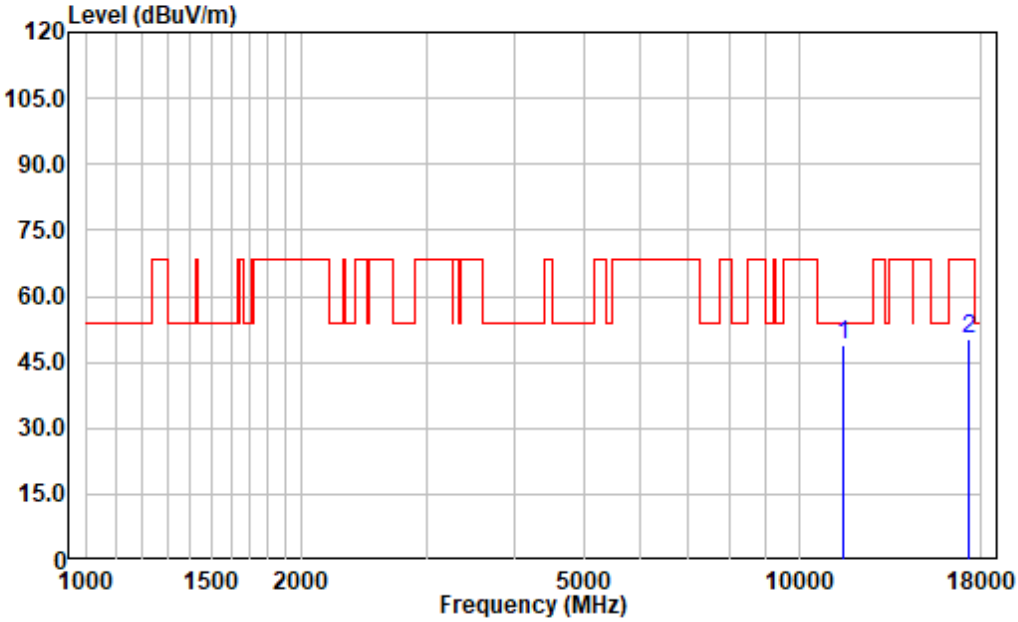
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11570.000	13.13	38.72	39.41	49.01	54.00	-4.99	Peak
2	17355.000	16.24	40.93	32.12	50.37	68.30	-17.93	Peak

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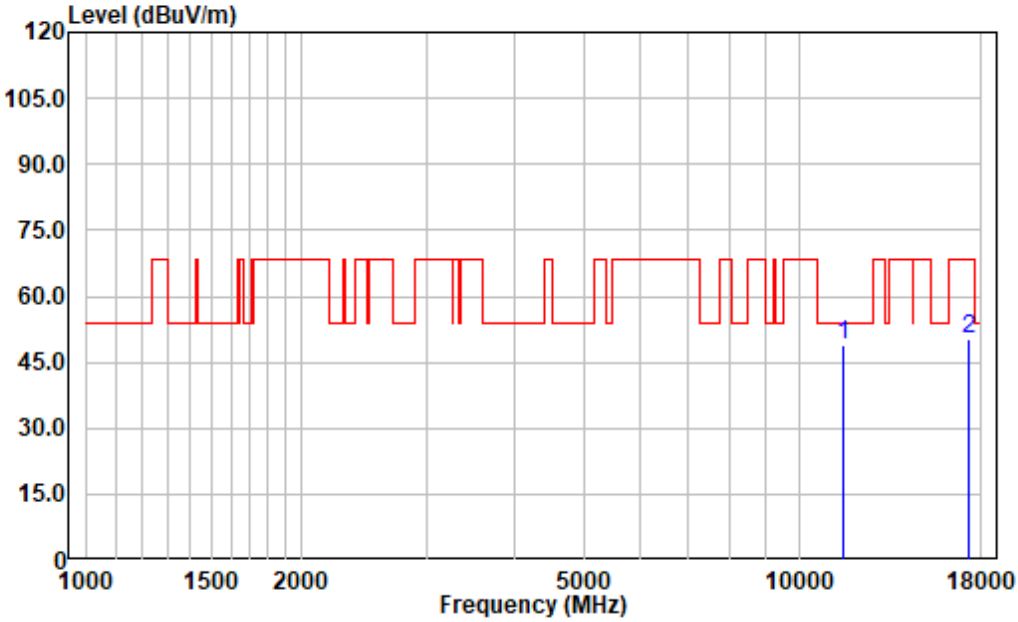
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11570.000	13.13	38.72	39.40	49.00	54.00	-5.00	Peak
2	17355.000	16.24	40.93	32.17	50.42	68.30	-17.88	Peak

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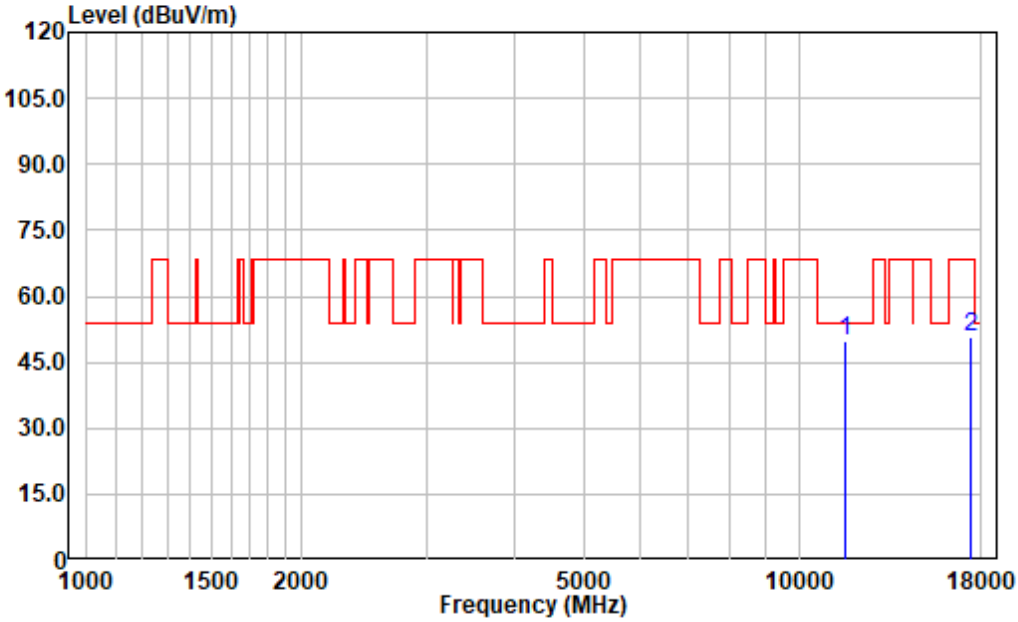
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11650.000	13.18	38.80	40.26	49.84	54.00	-4.16	Peak
2	17475.000	16.33	40.97	33.38	50.79	68.30	-17.51	Peak

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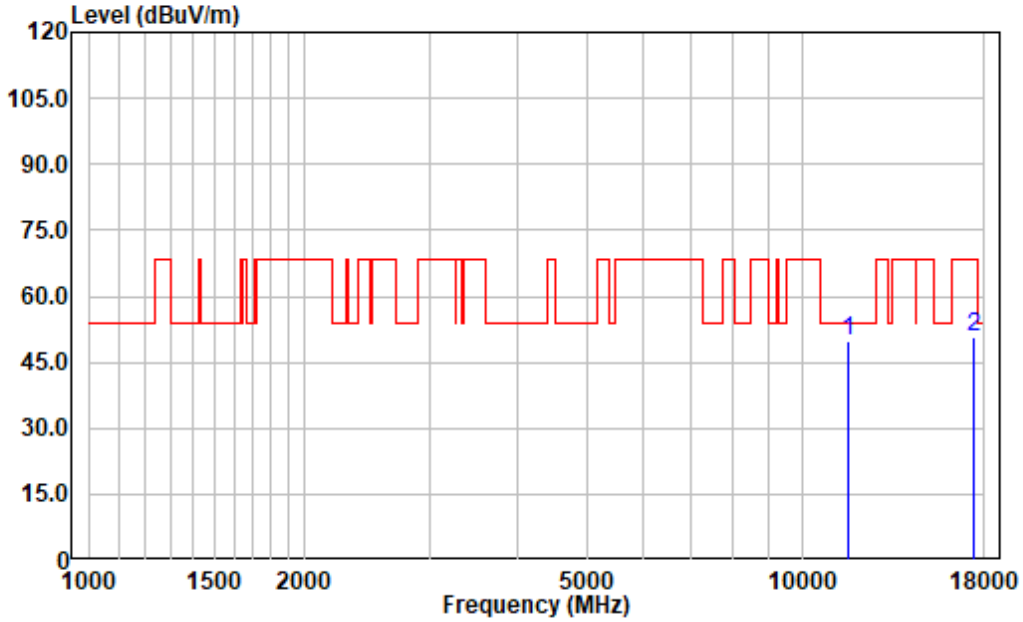
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11650.000	13.18	38.80	40.29	49.87	54.00	-4.13	Peak
2	17475.000	16.33	40.97	33.37	50.78	68.30	-17.52	Peak

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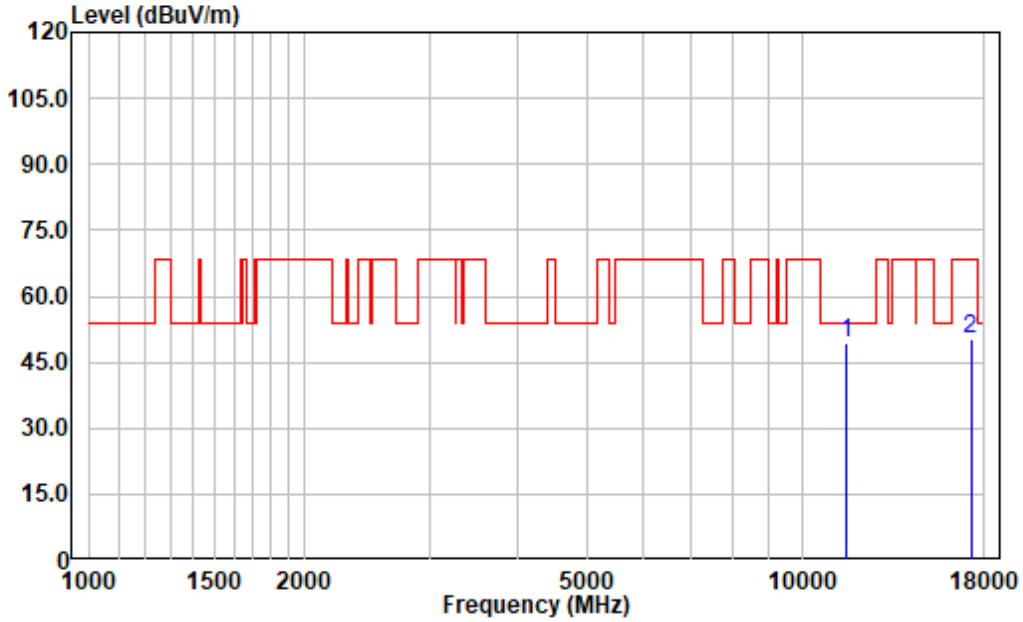
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11510.000	13.09	38.66	39.94	49.54	54.00	-4.46	Peak
2	17265.000	16.15	40.90	30.89	50.21	68.30	-18.09	Peak

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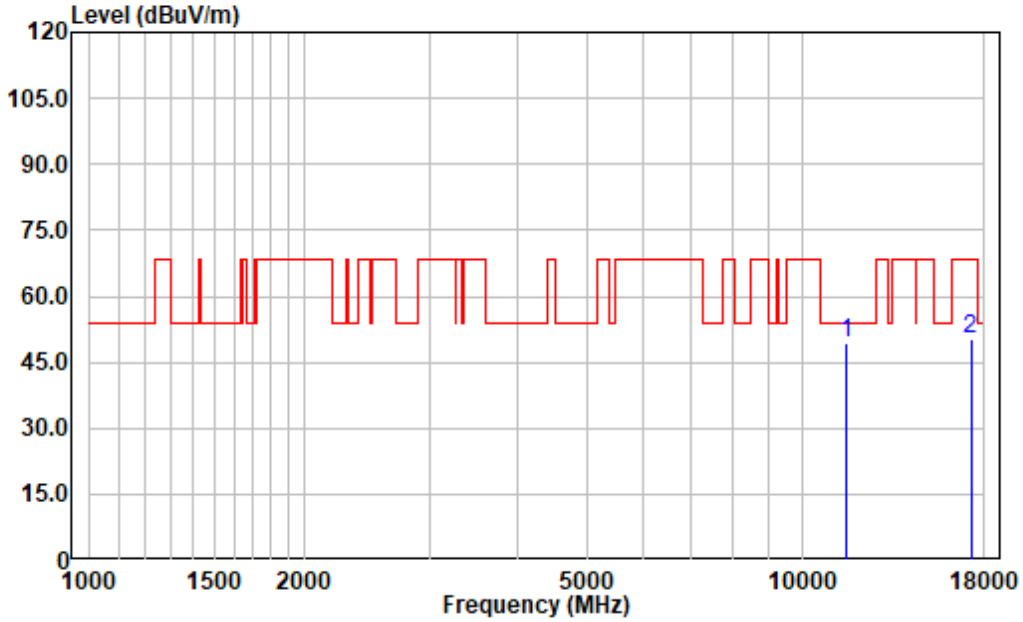
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11510.000	13.09	38.66	39.69	49.29	54.00	-4.71	Peak
2	17265.000	16.15	40.90	31.13	50.45	68.30	-17.85	Peak

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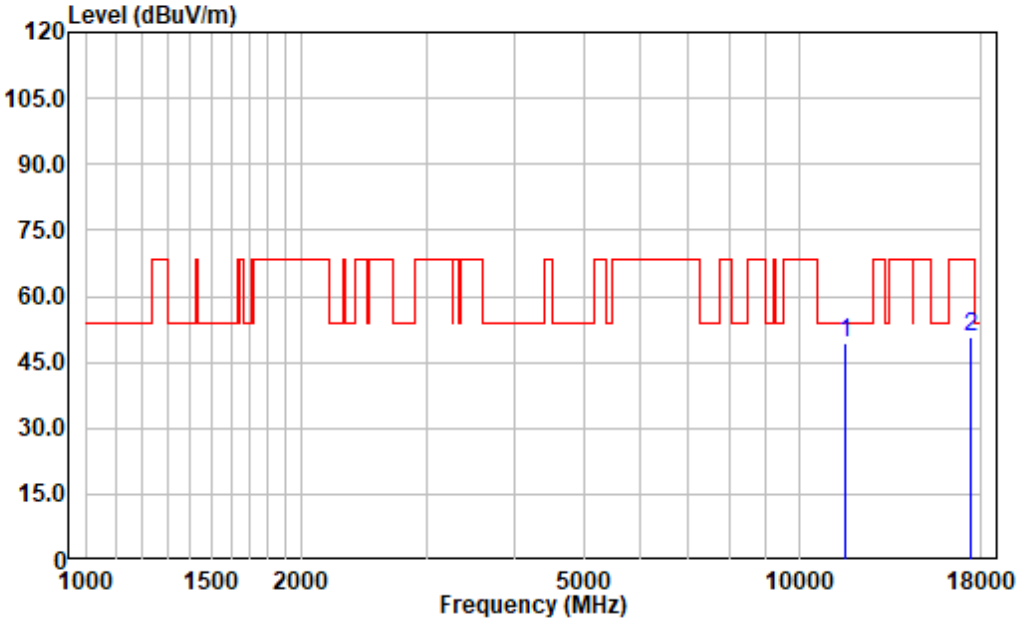
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11590.000	13.14	38.74	39.75	49.35	54.00	-4.65	Peak
2	17385.000	16.27	40.94	33.15	50.92	68.30	-17.38	Peak

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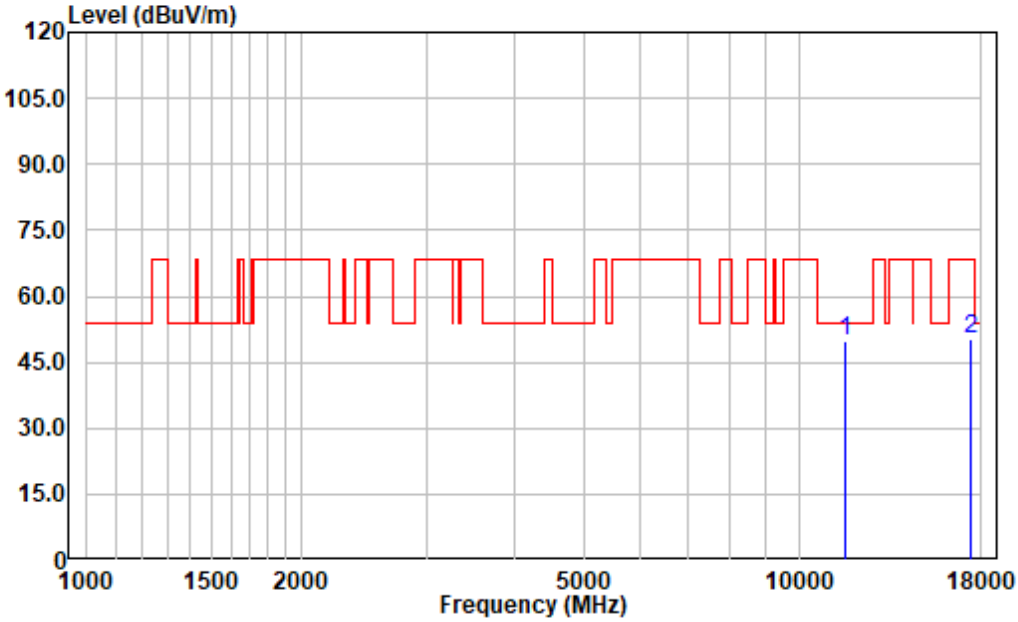
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11590.000	13.14	38.74	40.19	49.79	54.00	-4.21	Peak
2	17385.000	16.27	40.94	32.31	50.08	68.30	-18.22	Peak

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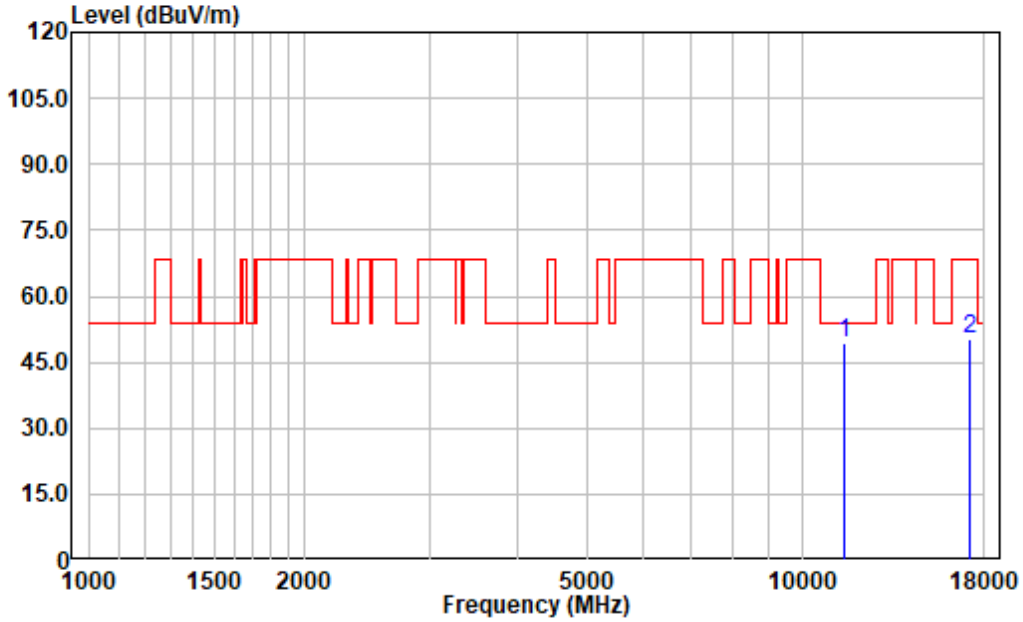
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	13.08	38.65	39.67	49.24	54.00	-4.76	Peak
2	17235.000	16.12	40.88	30.84	50.30	68.30	-18.00	Peak

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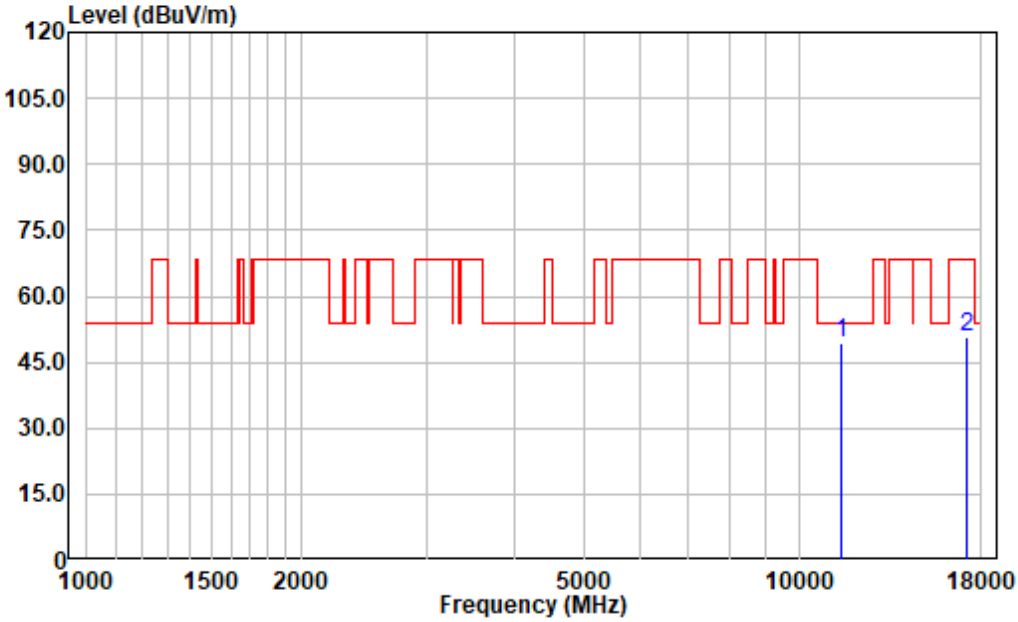
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	13.08	38.65	39.69	49.26	54.00	-4.74	Peak
2	17235.000	16.12	40.88	31.39	50.85	68.30	-17.45	Peak

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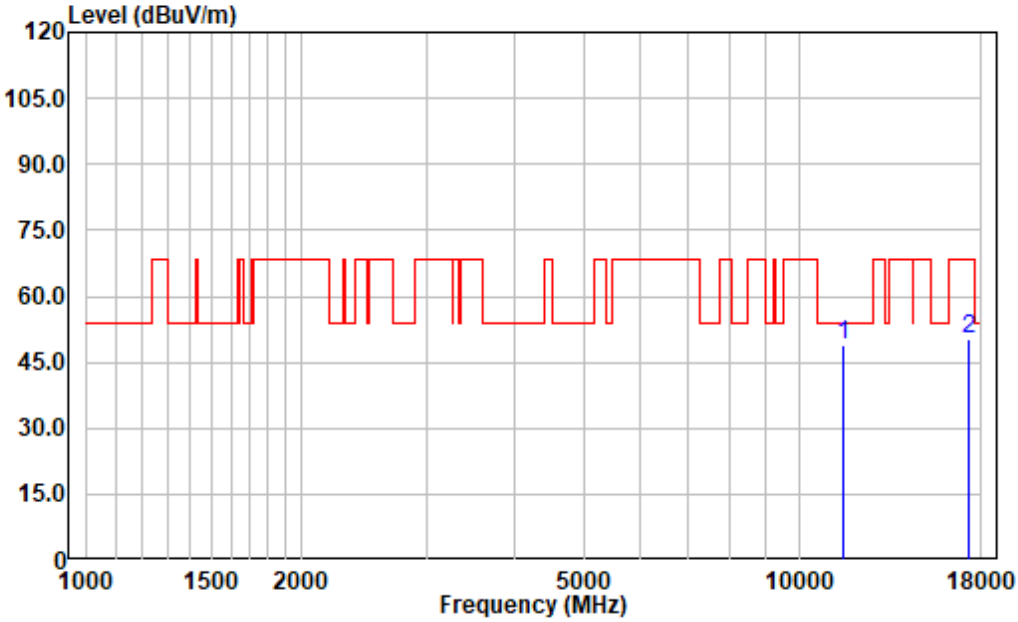
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11570.000	13.13	38.72	39.43	49.03	54.00	-4.97	Peak
2	17355.000	16.24	40.93	31.82	50.07	68.30	-18.23	Peak

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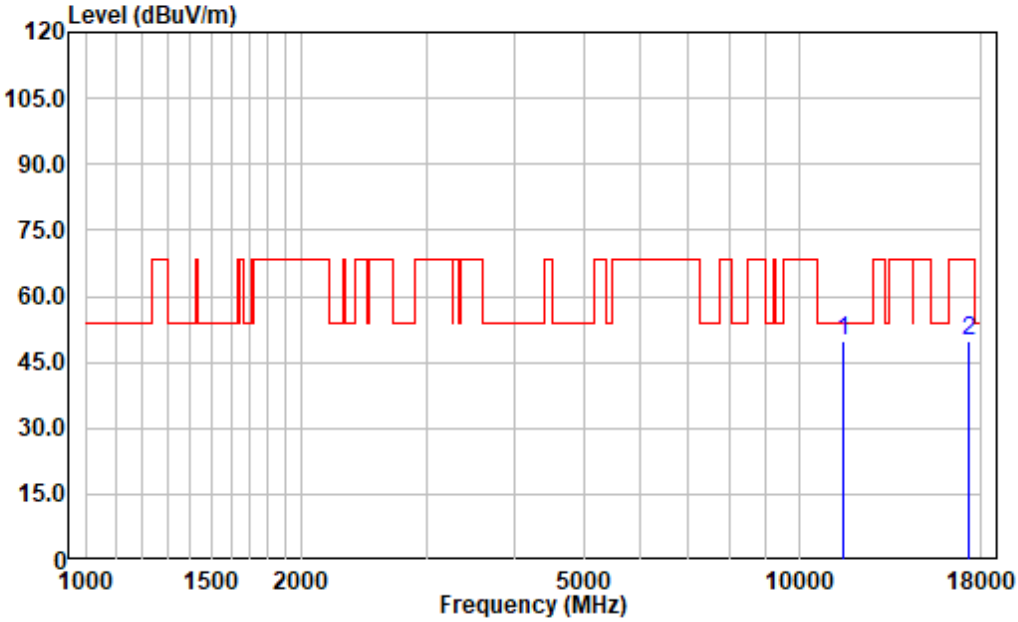
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11570.000	13.13	38.72	40.27	49.87	54.00	-4.13	Peak
2	17355.000	16.24	40.93	31.78	50.03	68.30	-18.27	Peak

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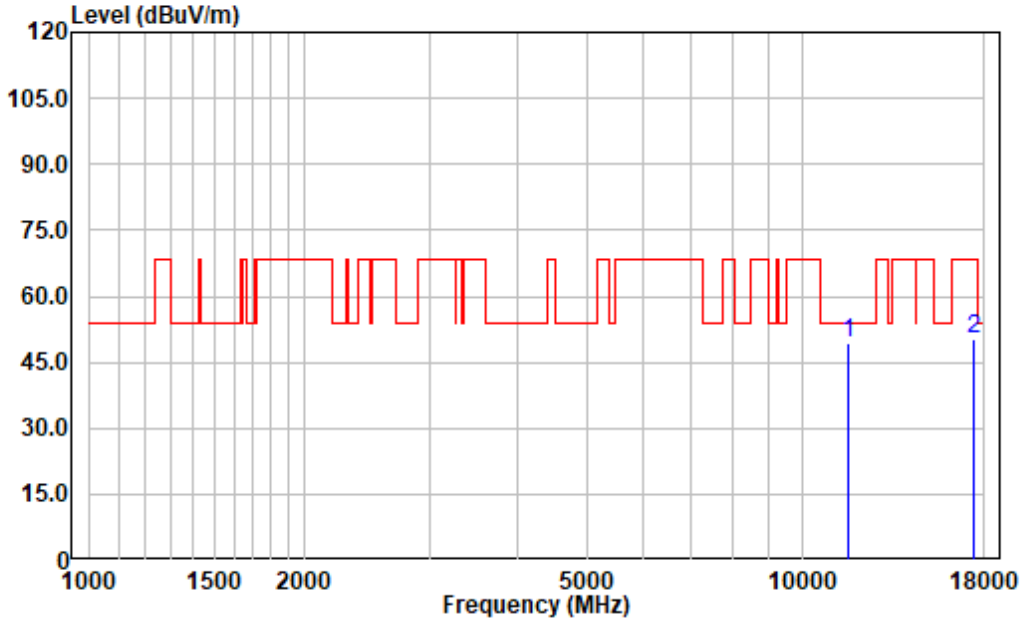
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11650.000	13.18	38.80	39.80	49.38	54.00	-4.62	Peak
2	17475.000	16.33	40.97	32.95	50.36	68.30	-17.94	Peak

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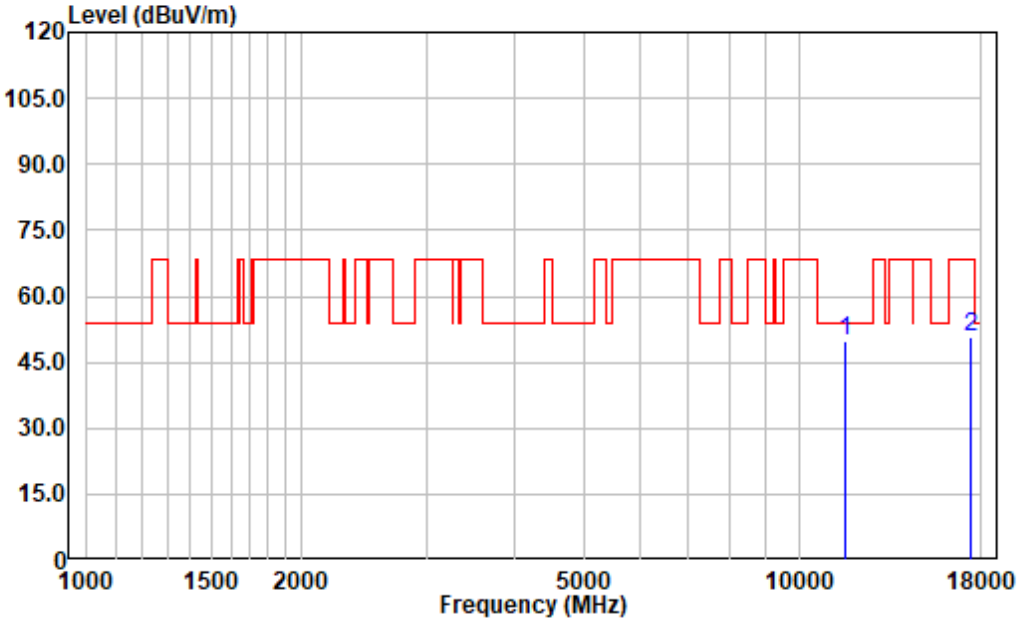
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11650.000	13.18	38.80	40.12	49.70	54.00	-4.30	Peak
2	17475.000	16.33	40.97	33.18	50.59	68.30	-17.71	Peak

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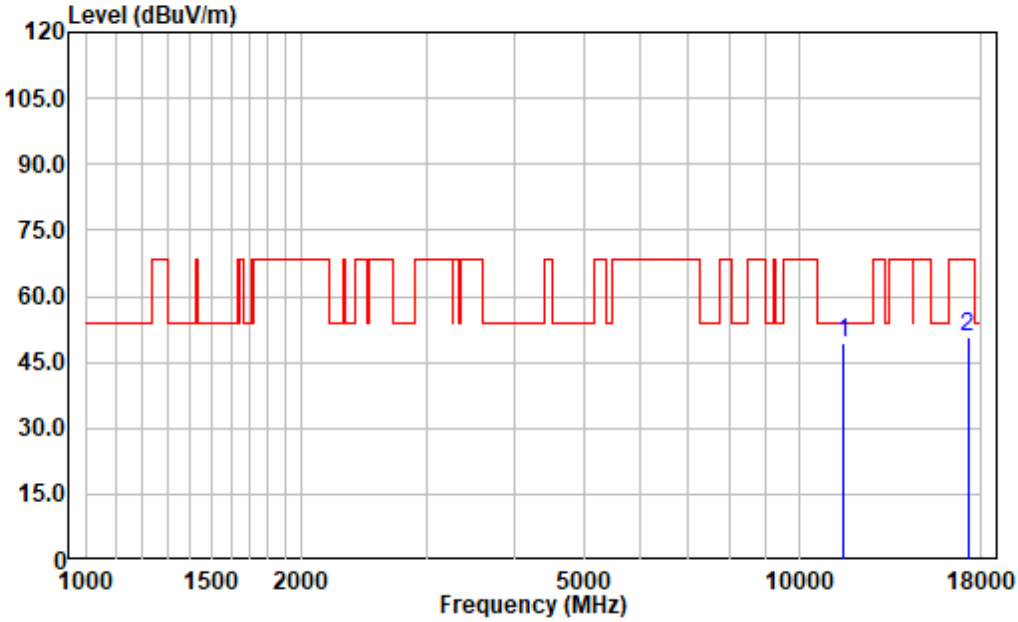
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11510.000	13.09	38.66	39.85	49.45	54.00	-4.55	Peak
2	17265.000	16.15	40.90	31.22	50.54	68.30	-17.76	Peak

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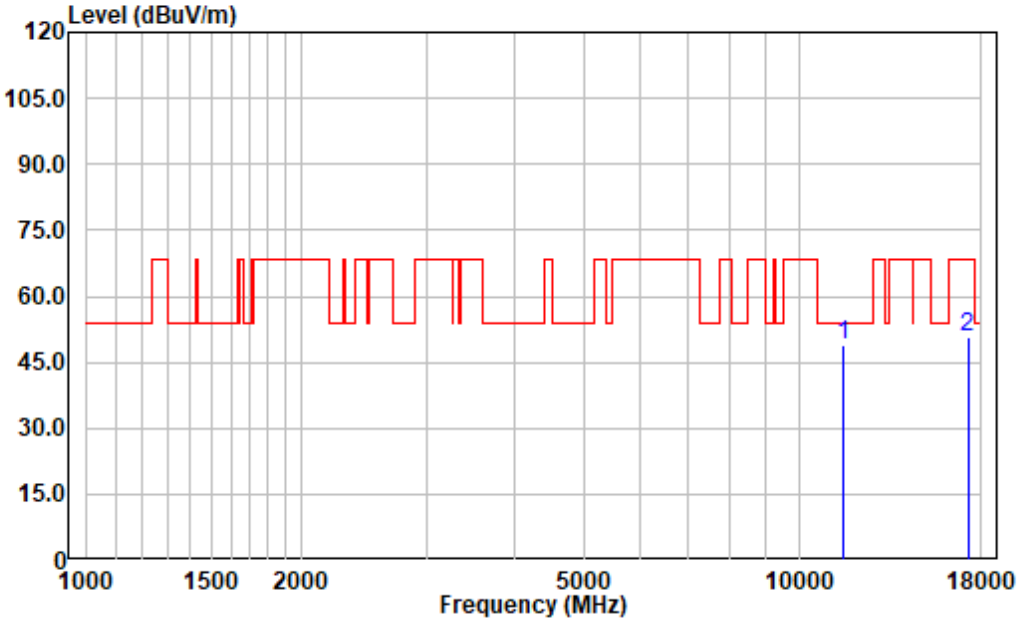
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11510.000	13.09	38.66	39.46	49.06	54.00	-4.94	Peak
2	17265.000	16.15	40.90	31.58	50.90	68.30	-17.40	Peak

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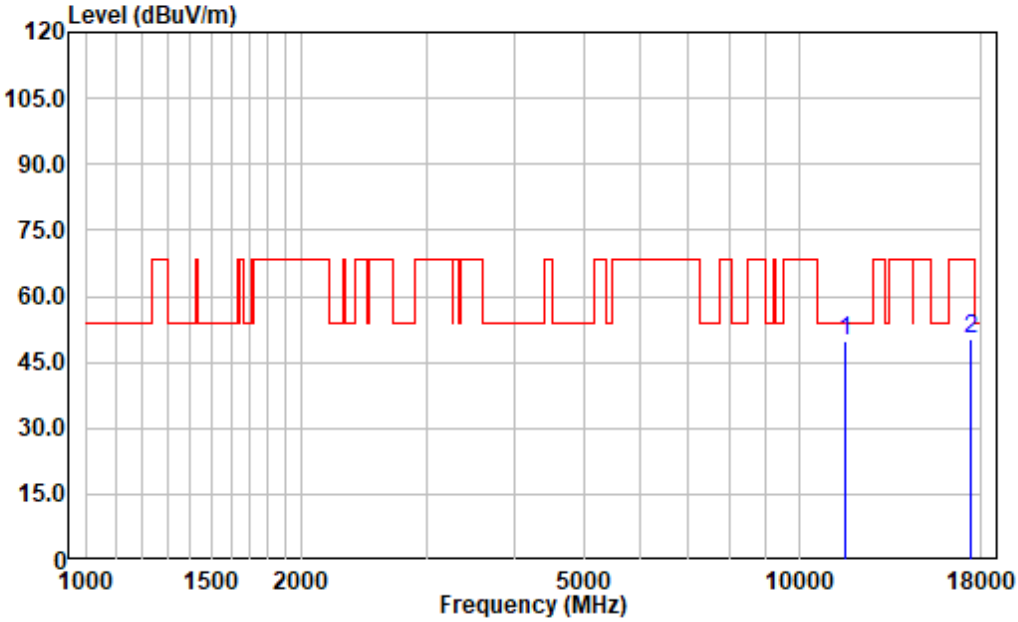
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11590.000	13.14	38.74	40.28	49.88	54.00	-4.12	Peak
2	17385.000	16.27	40.94	32.50	50.27	68.30	-18.03	Peak

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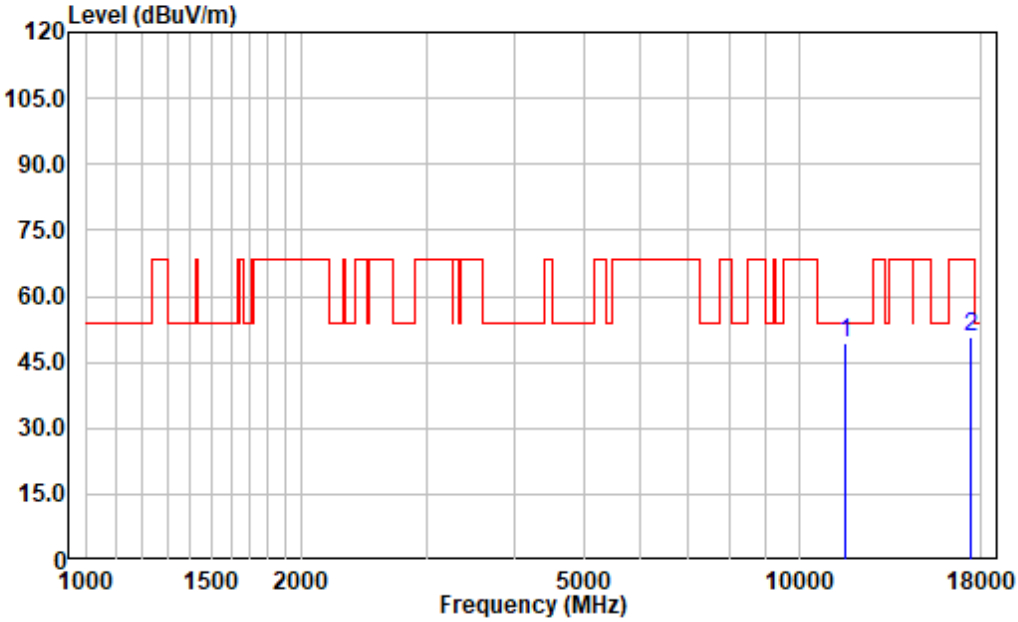
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11590.000	13.14	38.74	39.65	49.25	54.00	-4.75	Peak
2	17385.000	16.27	40.94	32.91	50.68	68.30	-17.62	Peak

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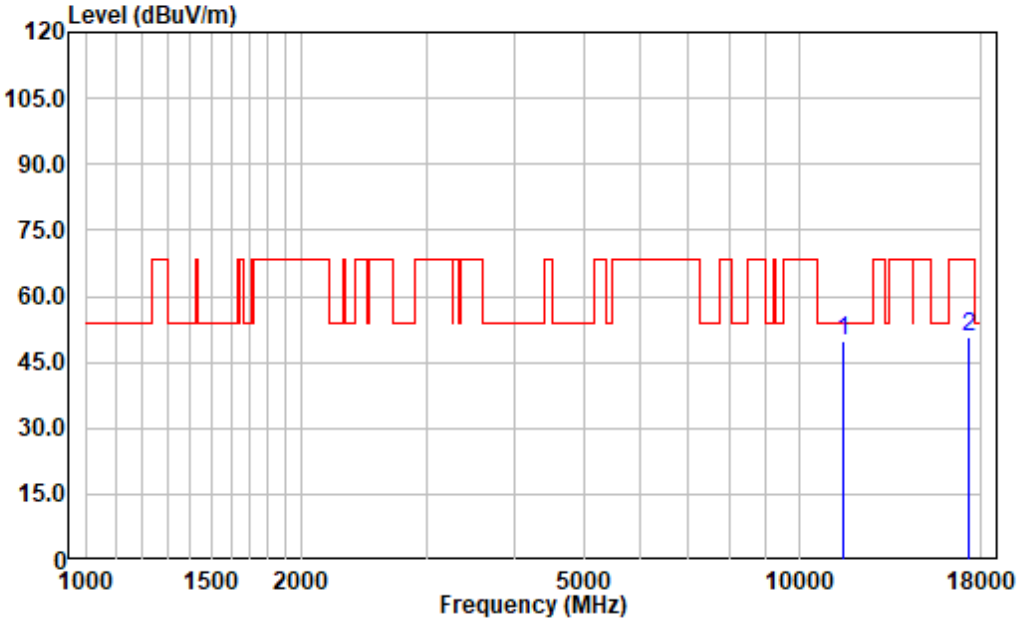
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11550.000	13.12	38.70	40.12	49.72	54.00	-4.28	Peak
2	17325.000	16.21	40.92	32.01	50.74	68.30	-17.56	Peak

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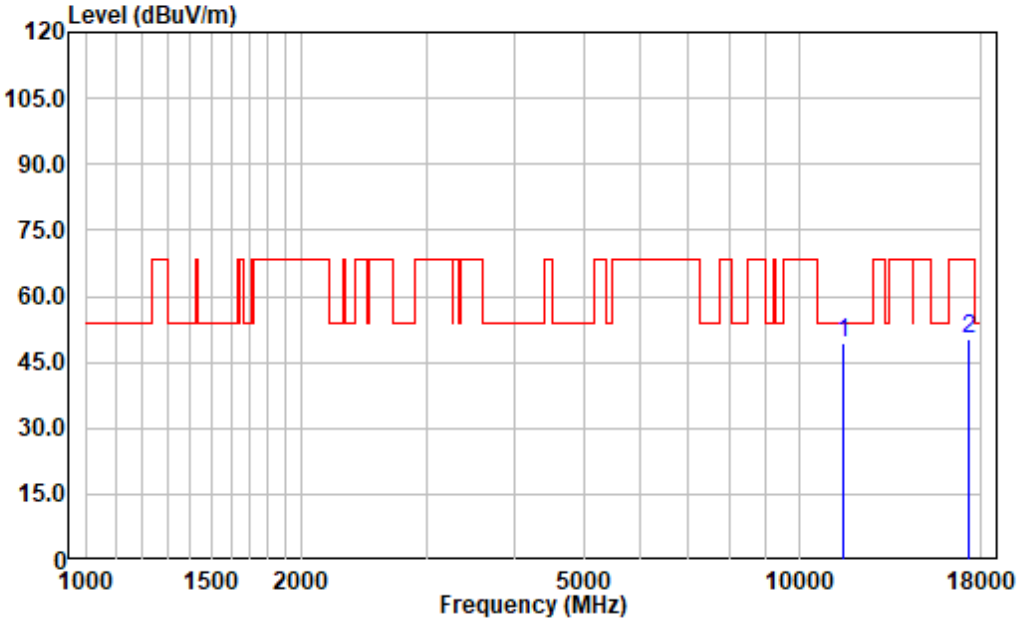
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11550.000	13.12	38.70	39.64	49.24	54.00	-4.76	Peak
2	17325.000	16.21	40.92	31.33	50.06	68.30	-18.24	Peak

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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: 21.3 °C Humidity: 51.0 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan /	Mode	Description

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Final test	Code	
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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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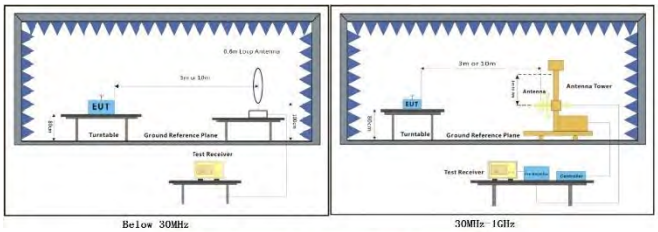
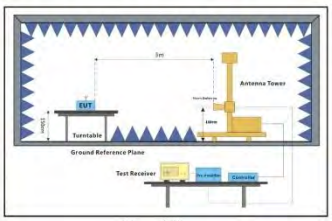
7.9.3 Test Setup Diagram



Below 30MHz

30MHz~1GHz



Above 1GHz

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.

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

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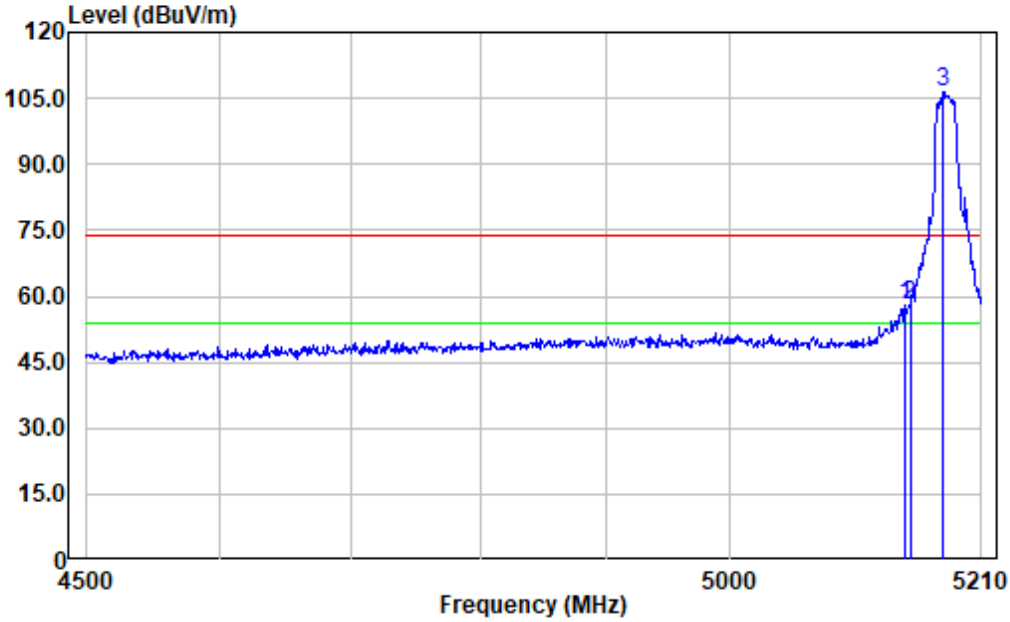
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5145.390	8.39	32.61	59.26	58.05	74.00	-15.95	Peak
2	5150.000	8.39	32.61	59.19	57.95	74.00	-16.05	Peak
3	5178.050	8.43	32.59	107.86	106.47	74.00	32.47	Peak

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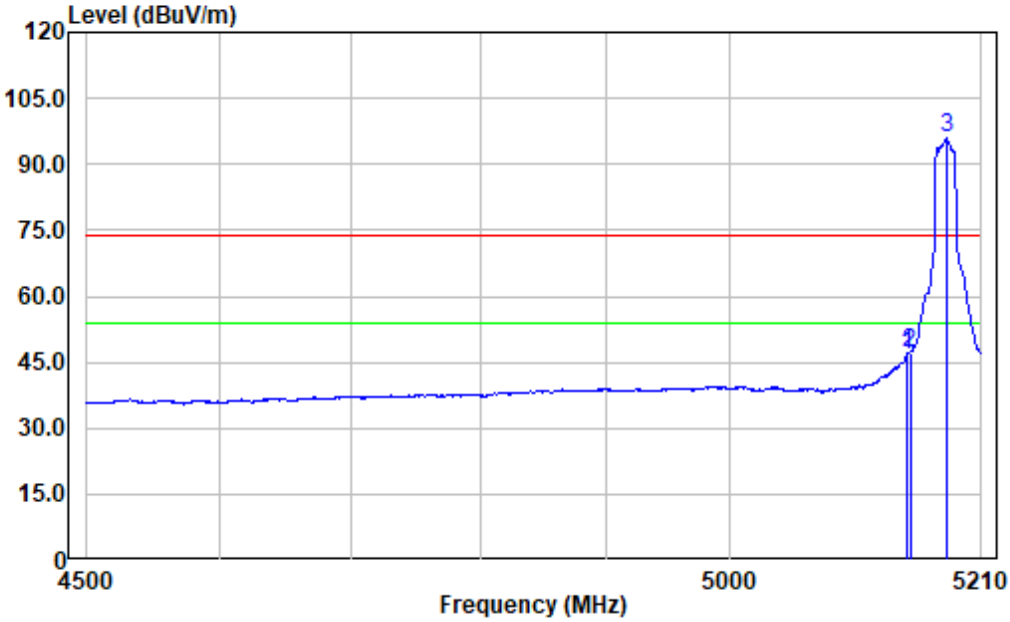
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5146.810	8.39	32.61	47.70	46.48	54.00	-7.52	Average
2	5150.000	8.39	32.61	48.49	47.25	54.00	-6.75	Average
3	5181.600	8.43	32.58	97.23	95.81	54.00	41.81	Average

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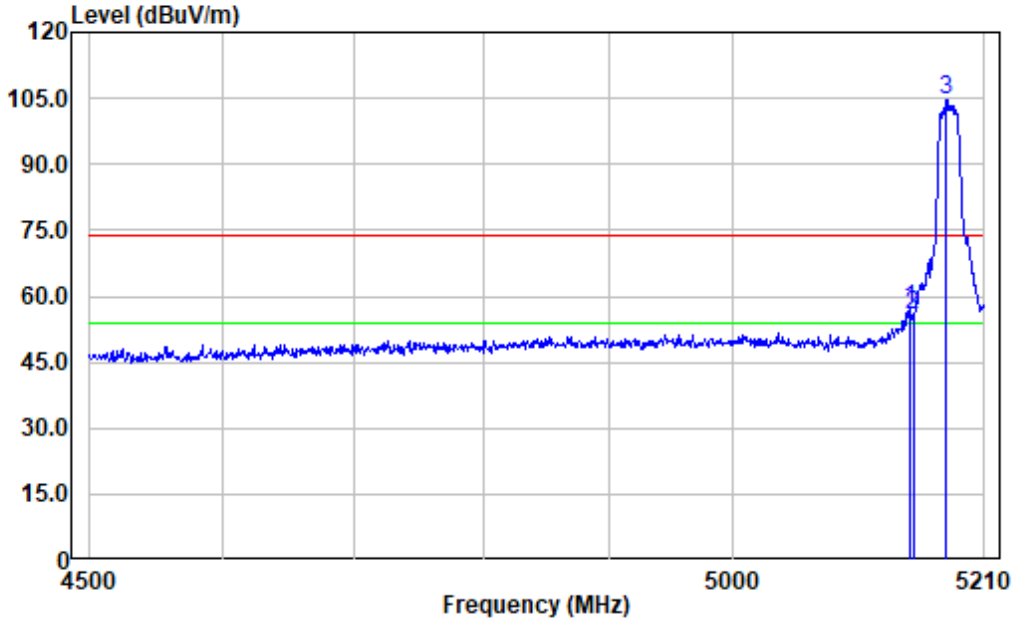
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5146.810	8.39	32.61	58.25	57.03	74.00	-16.97	Peak
2	5150.000	8.39	32.61	56.97	55.73	74.00	-18.27	Peak
3	5178.050	8.43	32.59	105.87	104.48	74.00	30.48	Peak

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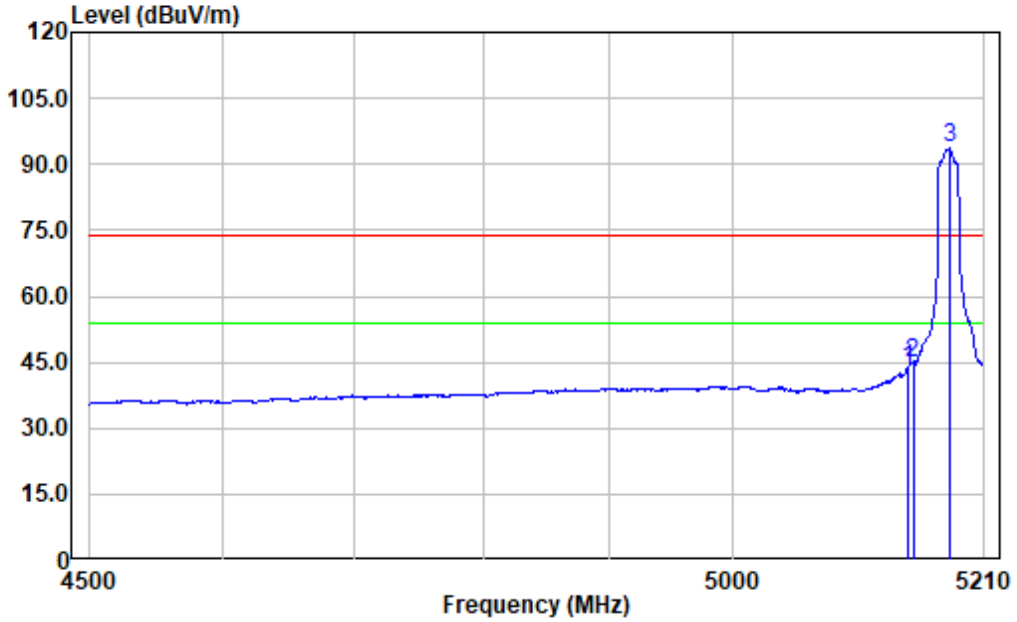
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5145.390	8.39	32.61	44.90	43.69	54.00	-10.31	Average
2	5150.000	8.39	32.61	46.19	44.95	54.00	-9.05	Average
3	5180.890	8.43	32.59	95.07	93.67	54.00	39.67	Average

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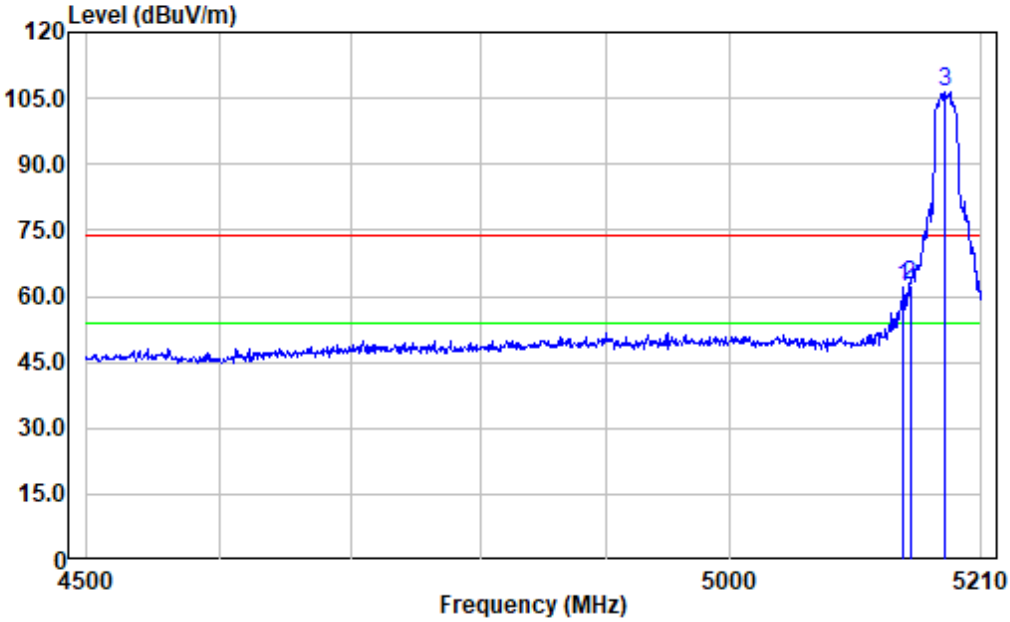
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5144.680	8.38	32.61	63.30	62.09	74.00	-11.91	Peak
2	5150.000	8.39	32.61	63.54	62.30	74.00	-11.70	Peak
3	5179.470	8.43	32.59	107.91	106.52	74.00	32.52	Peak

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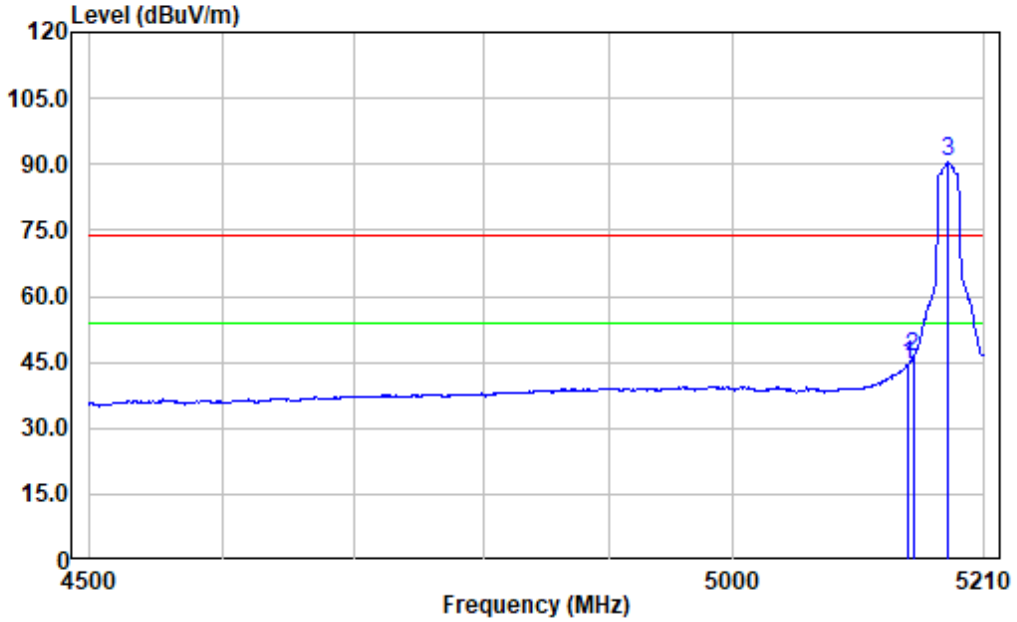
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5145.390	8.39	32.61	45.73	44.52	54.00	-9.48	Average
2	5150.000	8.39	32.61	47.36	46.12	54.00	-7.88	Average
3	5178.760	8.43	32.59	91.86	90.47	54.00	36.47	Average

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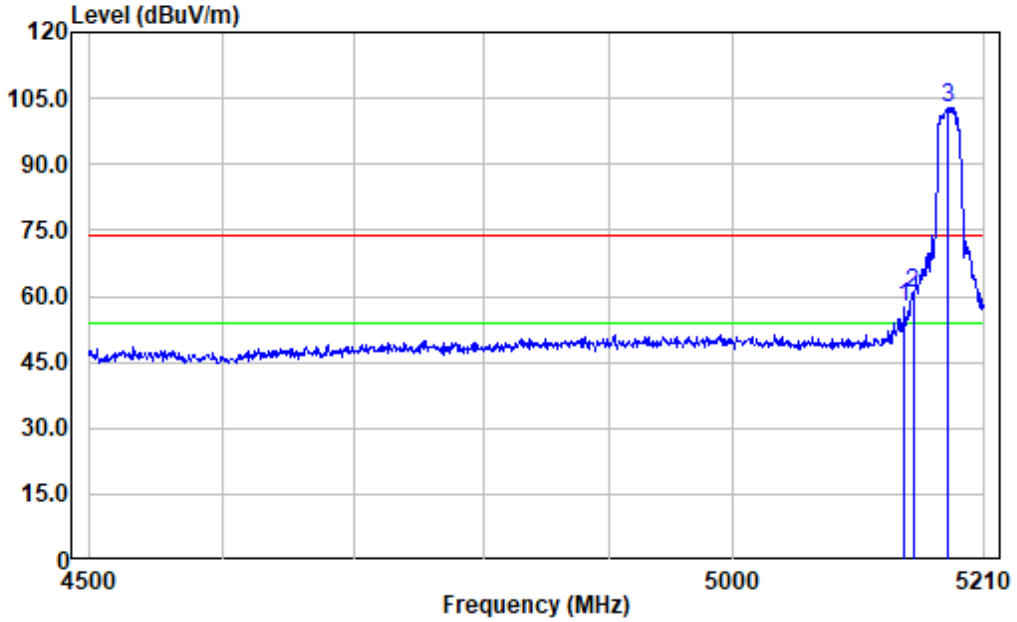
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5142.550	8.38	32.62	58.63	57.44	74.00	-16.56	Peak
2	5150.000	8.39	32.61	61.88	60.64	74.00	-13.36	Peak
3	5178.760	8.43	32.59	104.31	102.92	74.00	28.92	Peak

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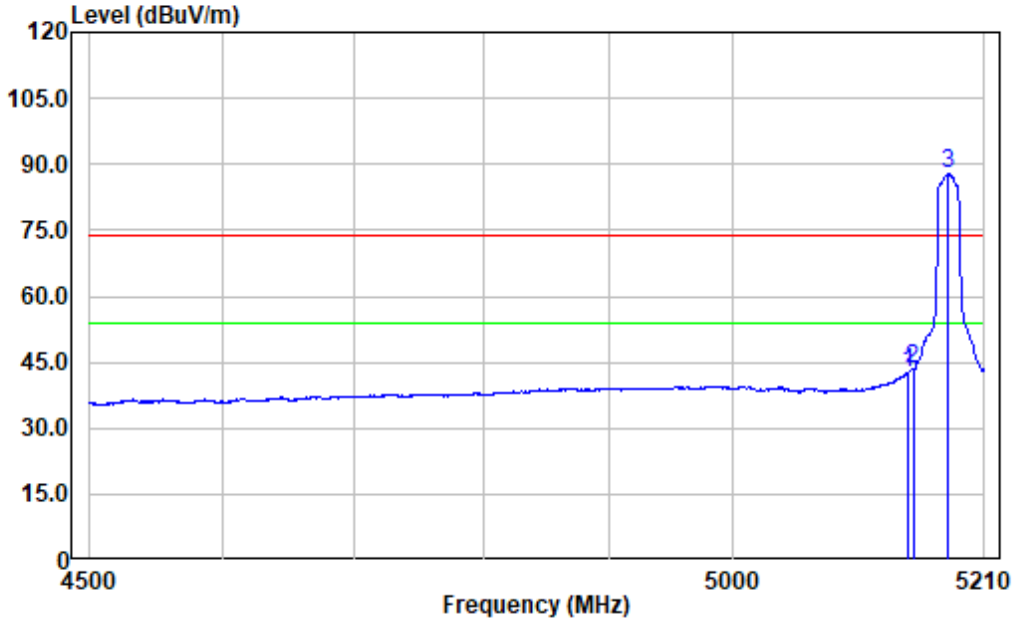
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5146.100	8.39	32.61	43.93	42.72	54.00	-11.28	Average
2	5150.000	8.39	32.61	44.63	43.39	54.00	-10.61	Average
3	5178.760	8.43	32.59	89.10	87.71	54.00	33.71	Average

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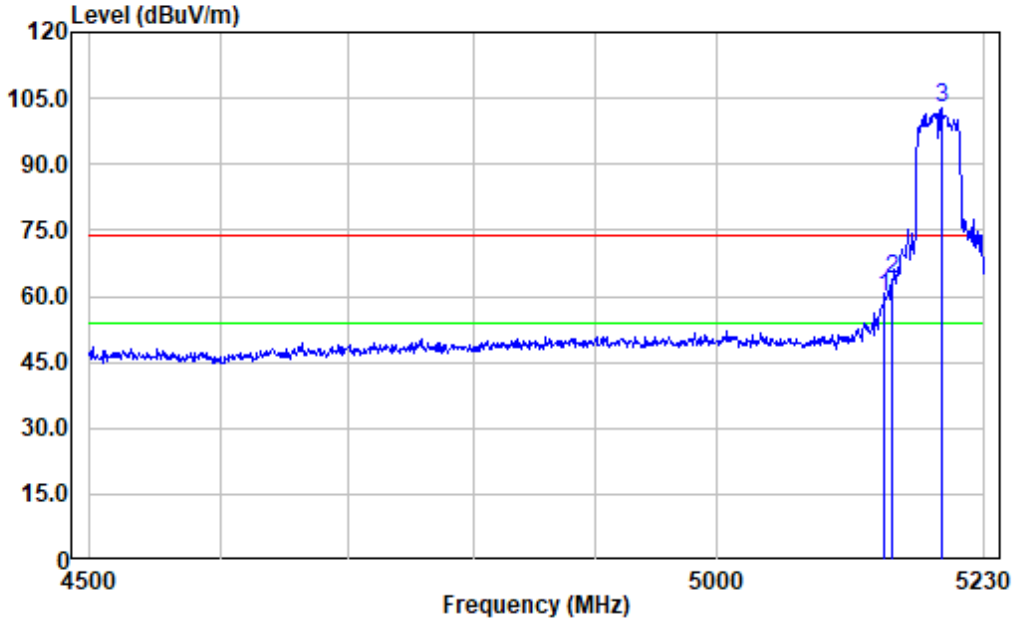
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5143.130	8.38	32.62	61.03	59.84	74.00	-14.16	Peak
2	5150.000	8.39	32.61	65.14	63.90	74.00	-10.10	Peak
3	5192.770	8.45	32.58	104.15	102.68	74.00	28.68	Peak

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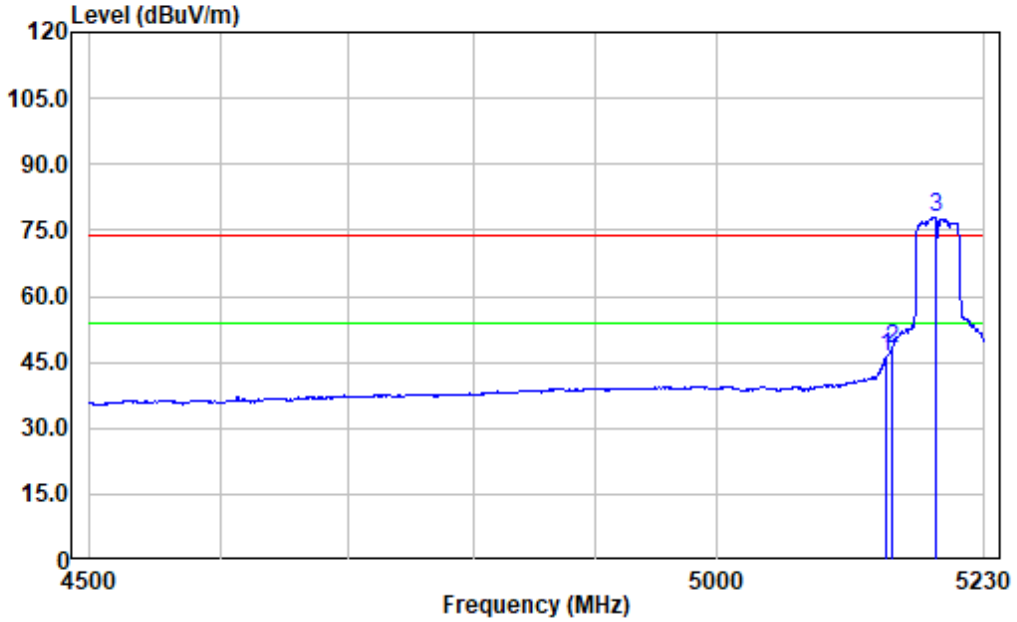
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5144.590	8.38	32.61	47.38	46.17	54.00	-7.83	Average
2	5150.000	8.39	32.61	49.12	47.88	54.00	-6.12	Average
3	5187.660	8.44	32.58	79.51	78.07	54.00	24.07	Average

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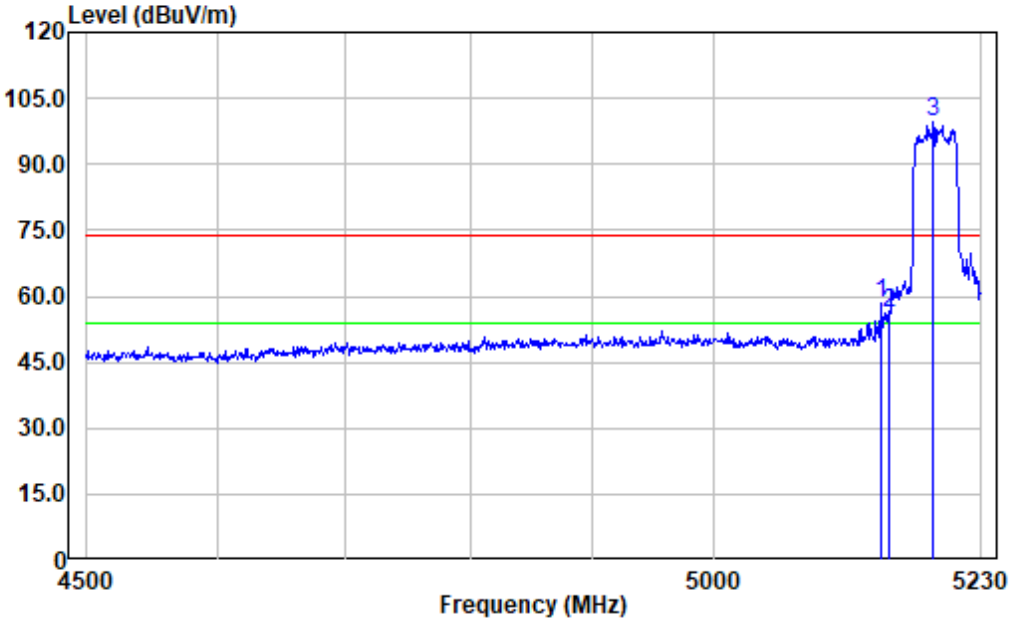
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5142.400	8.38	32.62	59.52	58.33	74.00	-15.67	Peak
2	5150.000	8.39	32.61	57.47	56.23	74.00	-17.77	Peak
3	5188.390	8.44	32.58	101.03	99.58	74.00	25.58	Peak

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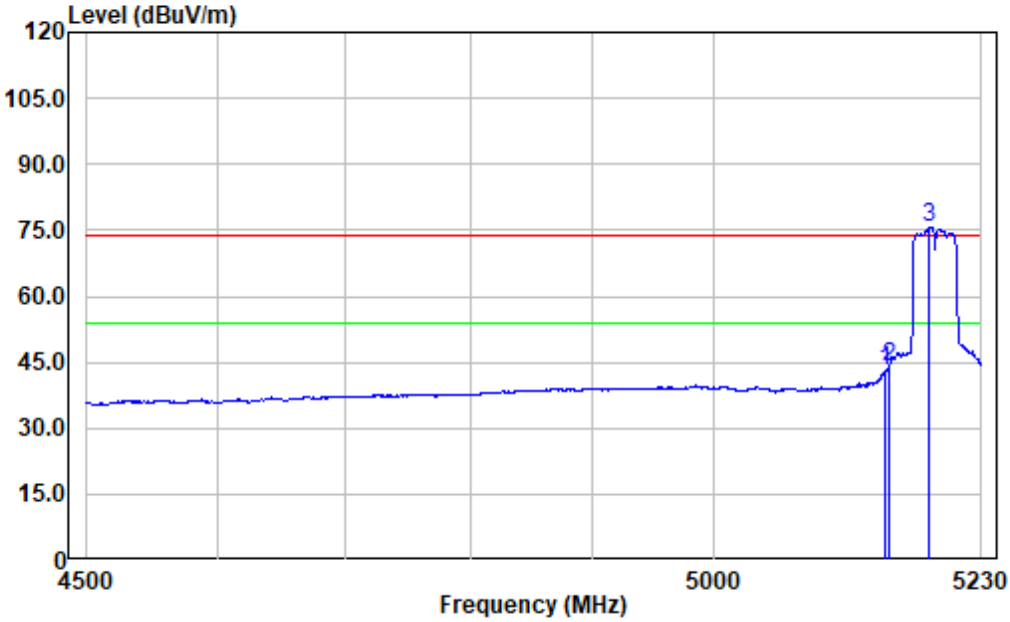
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5146.780	8.39	32.61	44.31	43.09	54.00	-10.91	Average
2	5150.000	8.39	32.61	45.11	43.87	54.00	-10.13	Average
3	5185.470	8.44	32.58	76.95	75.52	54.00	21.52	Average

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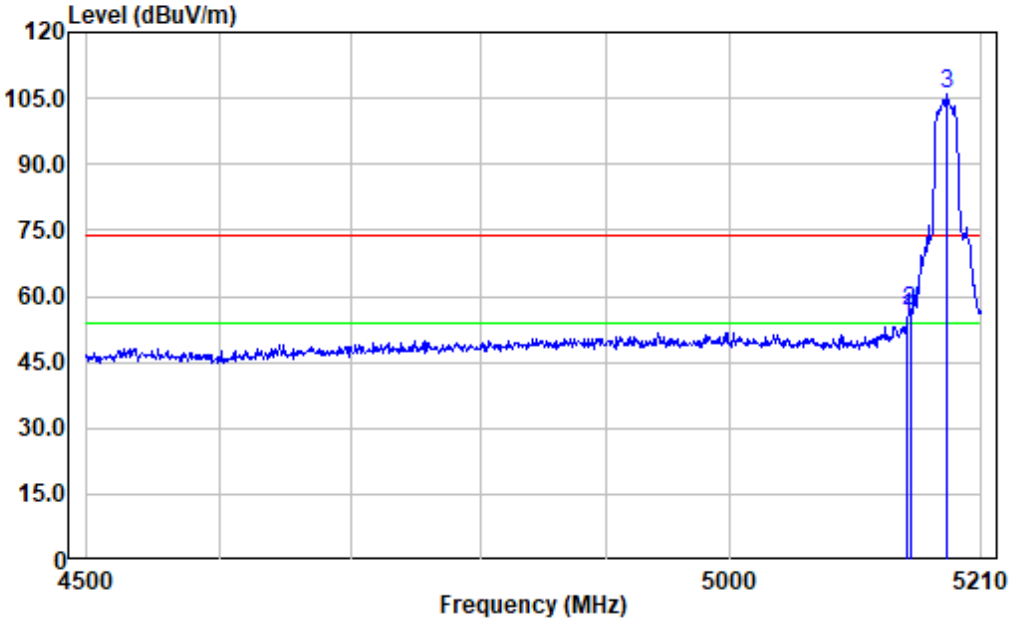
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5147.520	8.39	32.61	56.33	55.11	74.00	-18.89	Peak
2	5150.000	8.39	32.61	57.87	56.63	74.00	-17.37	Peak
3	5181.600	8.43	32.58	107.33	105.91	74.00	31.91	Peak

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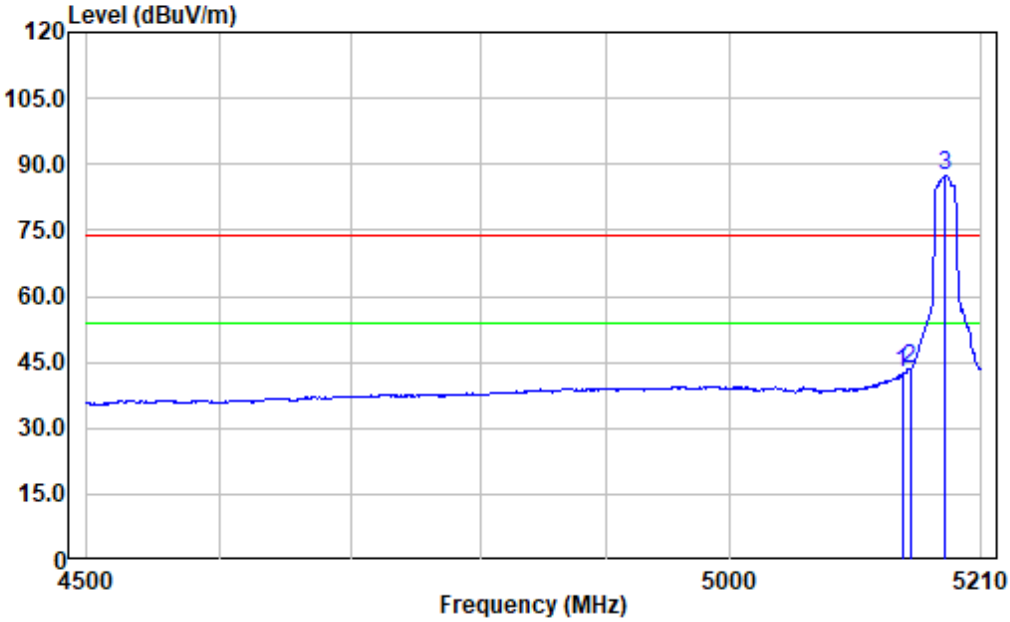
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5143.260	8.38	32.62	43.68	42.49	54.00	-11.51	Average
2	5150.000	8.39	32.61	44.61	43.37	54.00	-10.63	Average
3	5178.760	8.43	32.59	88.76	87.37	54.00	33.37	Average

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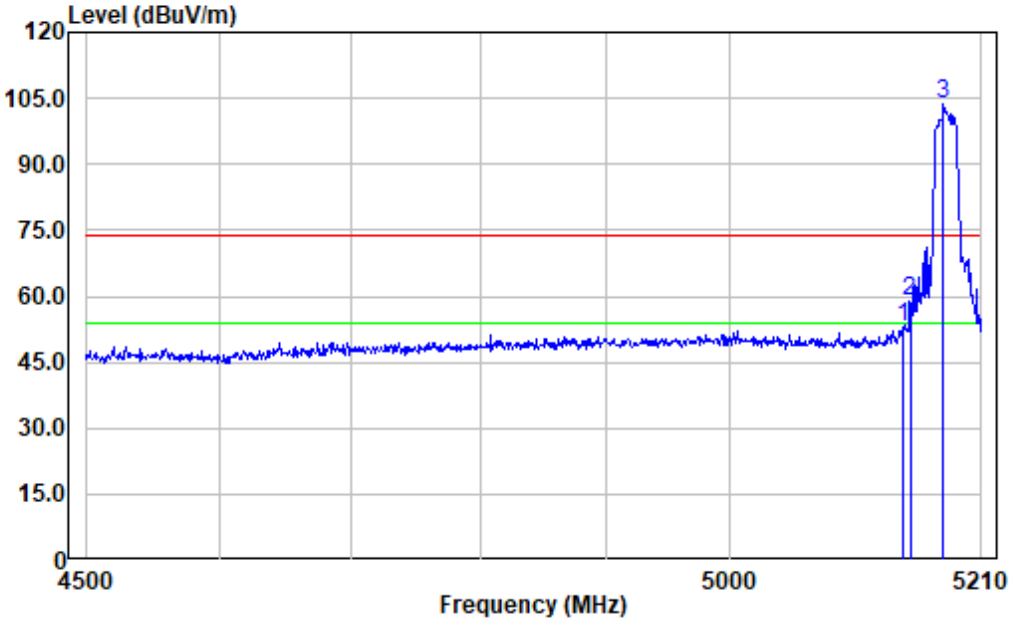
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5143.970	8.38	32.61	54.25	53.04	74.00	-20.96	Peak
2	5150.000	8.39	32.61	59.90	58.66	74.00	-15.34	Peak
3	5178.050	8.43	32.59	105.04	103.65	74.00	29.65	Peak

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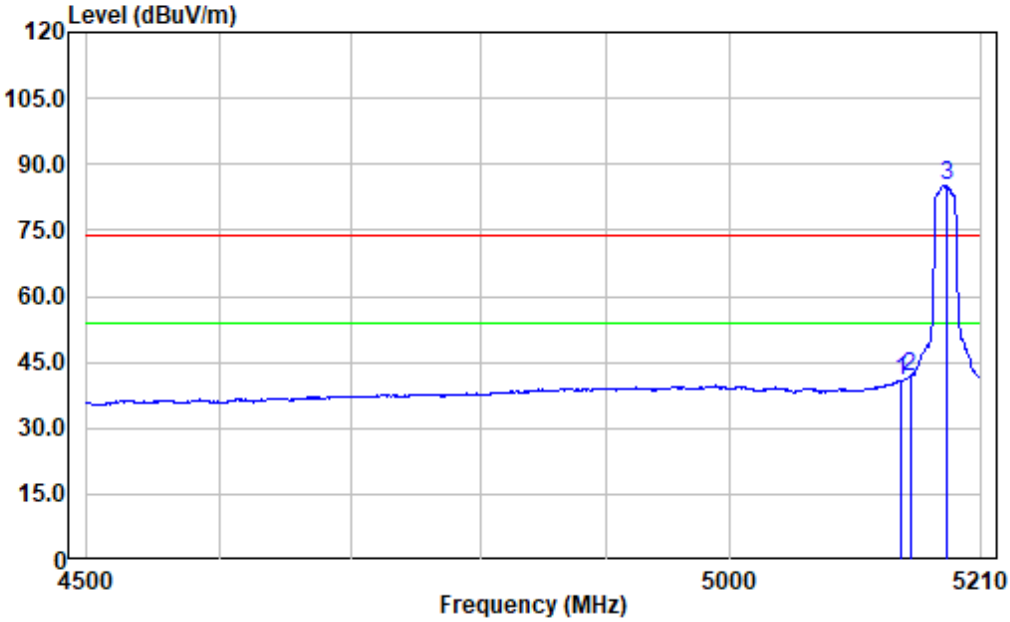
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5142.550	8.38	32.62	42.12	40.93	54.00	-13.07	Average
2	5150.000	8.39	32.61	42.91	41.67	54.00	-12.33	Average
3	5181.600	8.43	32.58	86.68	85.26	54.00	31.26	Average

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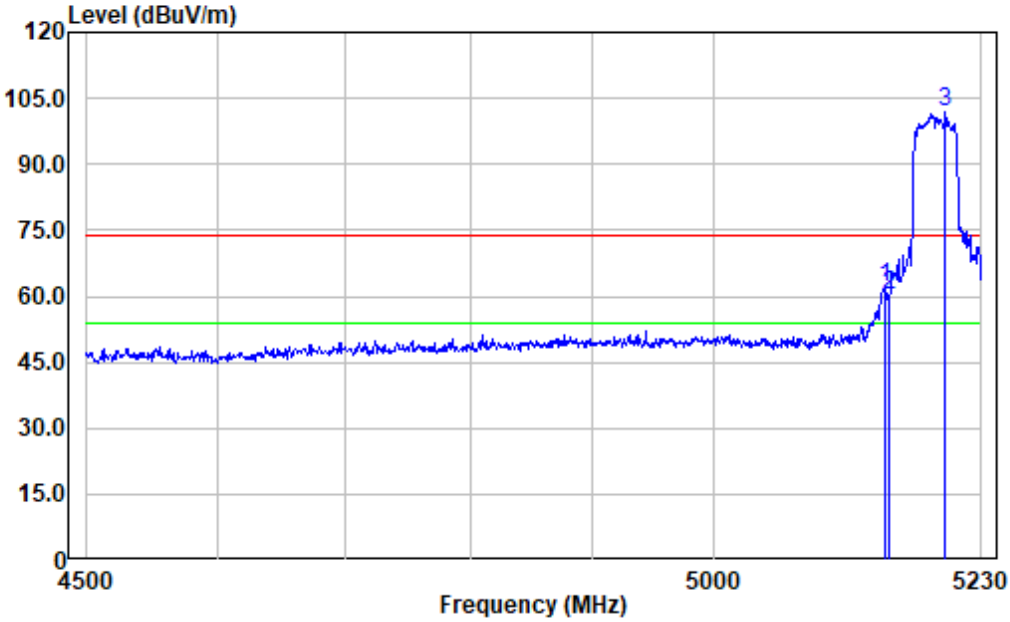
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5146.050	8.39	32.61	63.32	62.11	74.00	-11.89	Peak
2	5150.000	8.39	32.61	61.45	60.21	74.00	-13.79	Peak
3	5198.610	8.45	32.57	103.59	102.08	74.00	28.08	Peak

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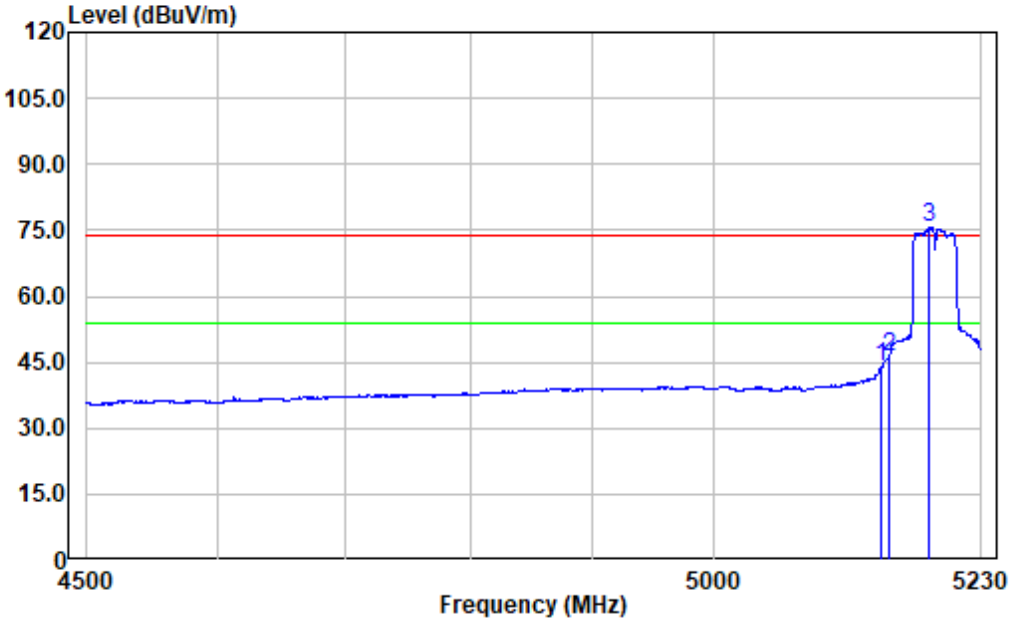
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5142.400	8.38	32.62	45.11	43.92	54.00	-10.08	Average
2	5150.000	8.39	32.61	47.33	46.09	54.00	-7.91	Average
3	5185.470	8.44	32.58	76.93	75.50	54.00	21.50	Average

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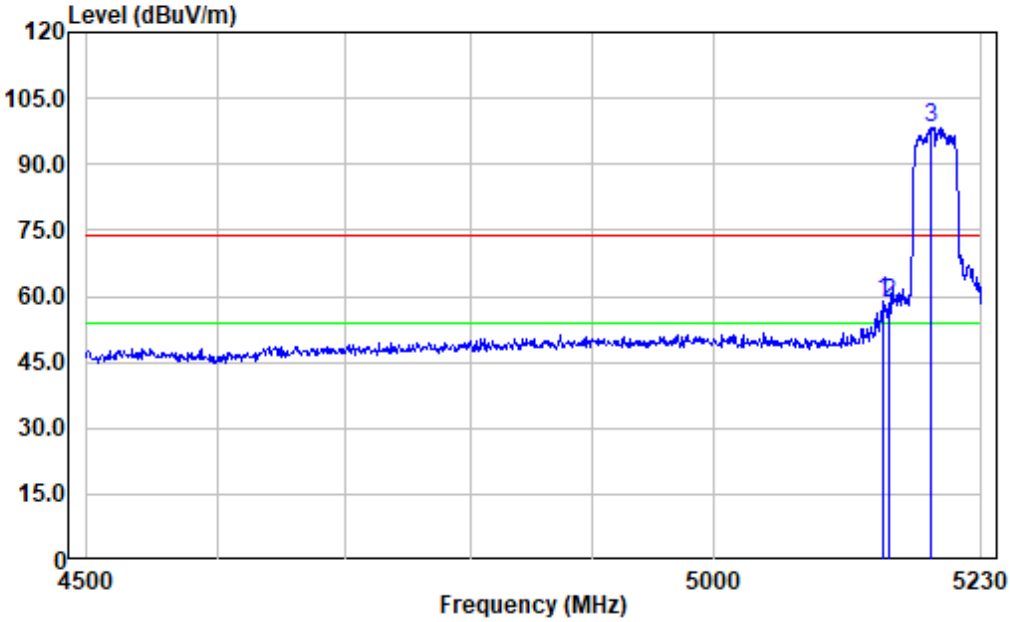
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5145.320	8.39	32.61	60.01	58.80	74.00	-15.20	Peak
2	5150.000	8.39	32.61	59.50	58.26	74.00	-15.74	Peak
3	5186.930	8.44	32.58	99.85	98.41	74.00	24.41	Peak

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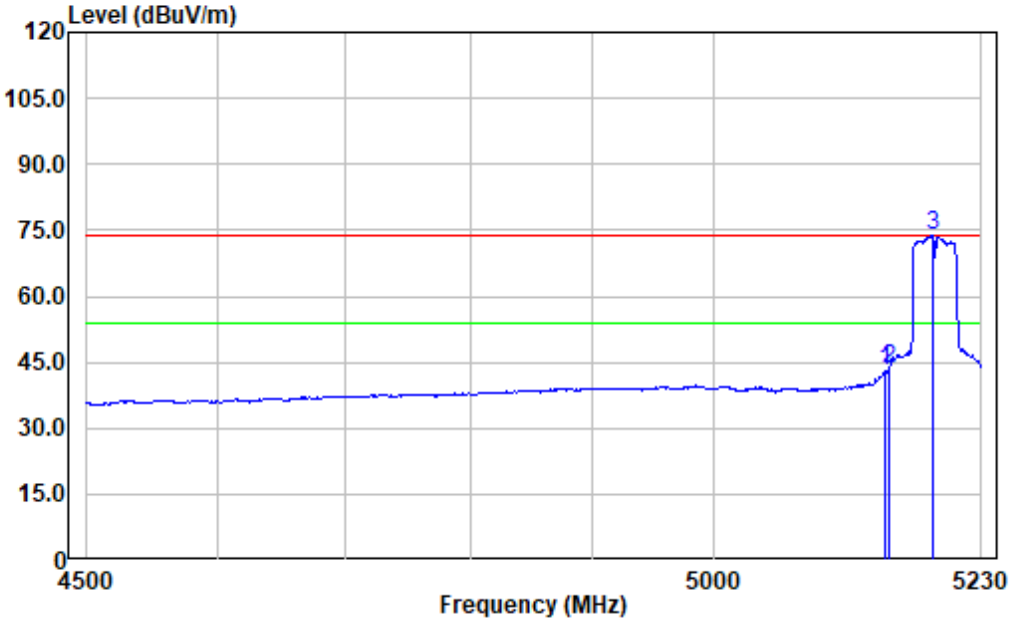

Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5146.050	8.39	32.61	44.04	42.83	54.00	-11.17	Average
2	5150.000	8.39	32.61	44.83	43.59	54.00	-10.41	Average
3	5188.390	8.44	32.58	75.40	73.95	54.00	19.95	Average

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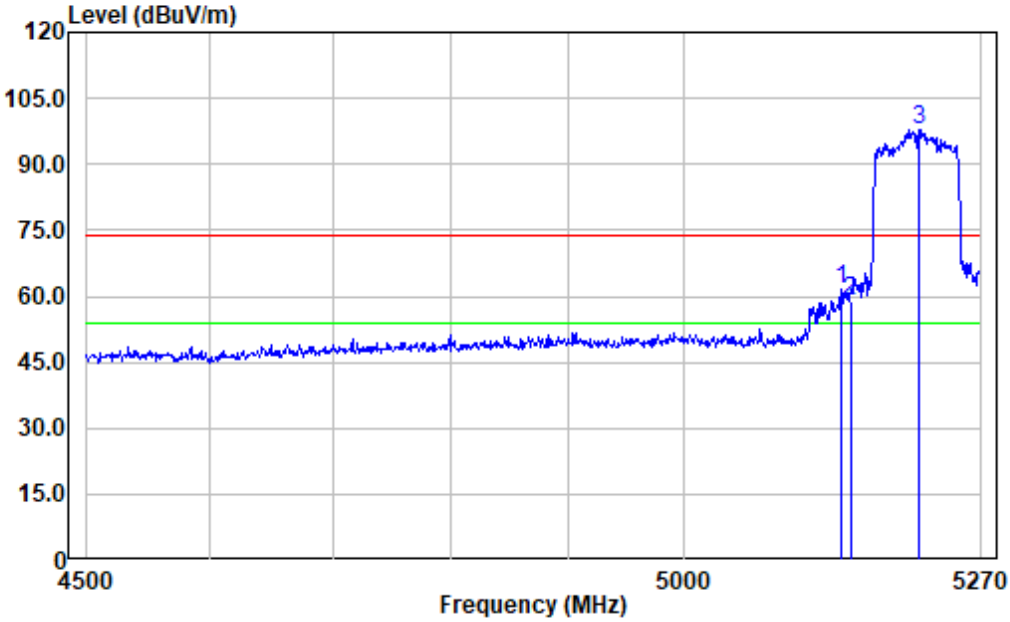
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5142.180	8.38	32.62	62.90	61.71	74.00	-12.29	Peak
2	5150.000	8.39	32.61	60.17	58.93	74.00	-15.07	Peak
3	5213.020	8.47	32.57	99.25	97.76	74.00	23.76	Peak

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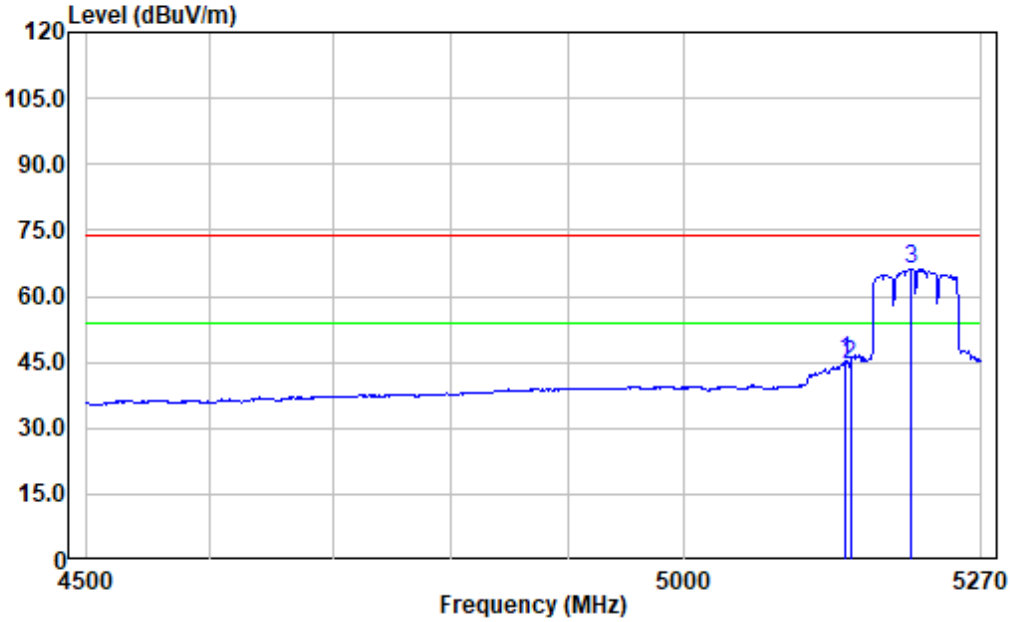
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5146.030	8.39	32.61	46.40	45.19	54.00	-8.81	Average
2	5150.000	8.39	32.61	45.51	44.27	54.00	-9.73	Average
3	5206.090	8.46	32.57	67.78	66.27	54.00	12.27	Average

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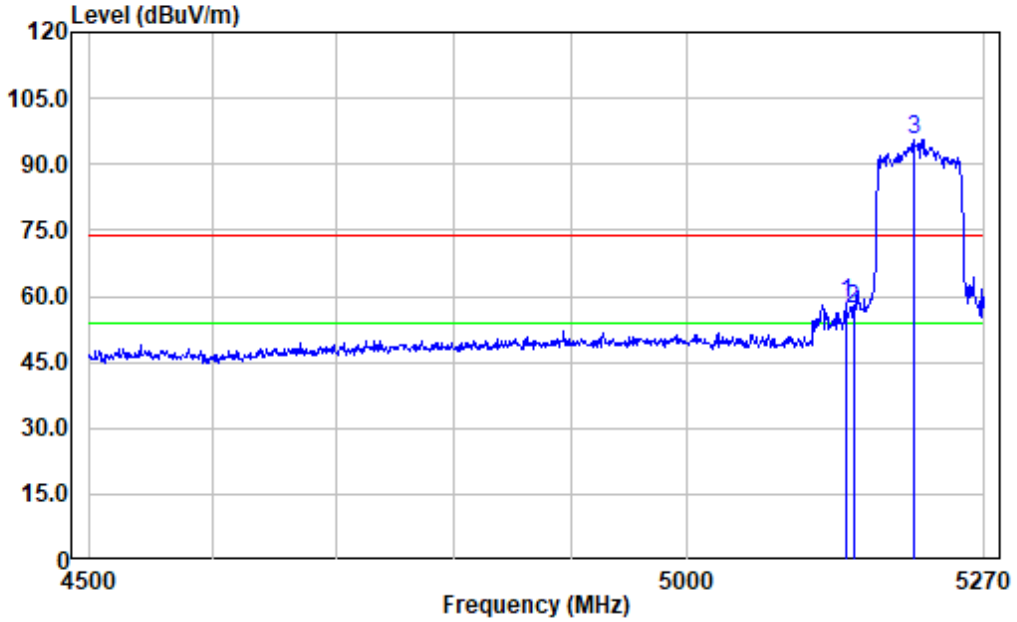
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5142.950	8.38	32.62	59.76	58.57	74.00	-15.43	Peak
2	5150.000	8.39	32.61	58.40	57.16	74.00	-16.84	Peak
3	5205.320	8.46	32.57	97.13	95.62	74.00	21.62	Peak

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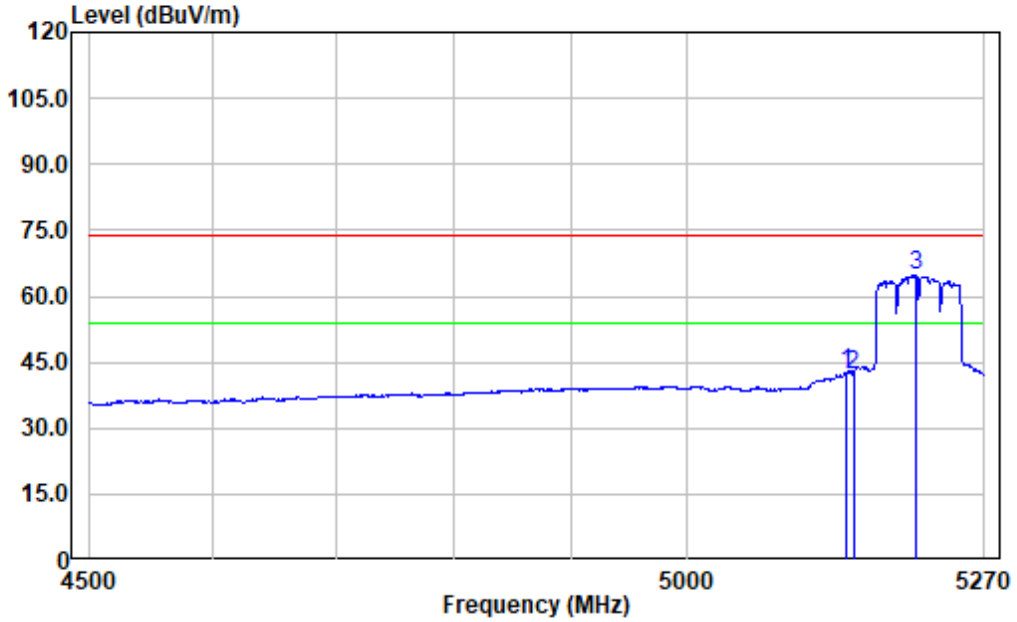
Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5143.720	8.38	32.62	43.74	42.54	54.00	-11.46	Average
2	5150.000	8.39	32.61	43.45	42.21	54.00	-11.79	Average
3	5207.630	8.46	32.57	66.19	64.68	54.00	10.68	Average

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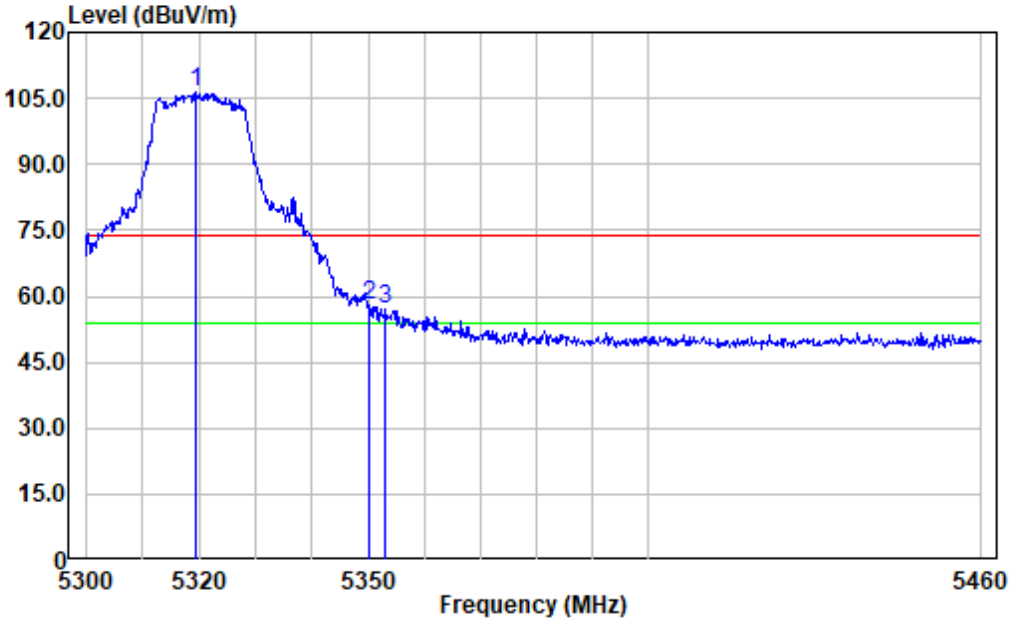
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5319.200	8.61	32.53	107.47	106.21	74.00	32.21	Peak
2	5350.000	8.64	32.52	58.82	57.74	74.00	-16.26	Peak
3	5352.960	8.65	32.52	57.96	56.91	74.00	-17.09	Peak

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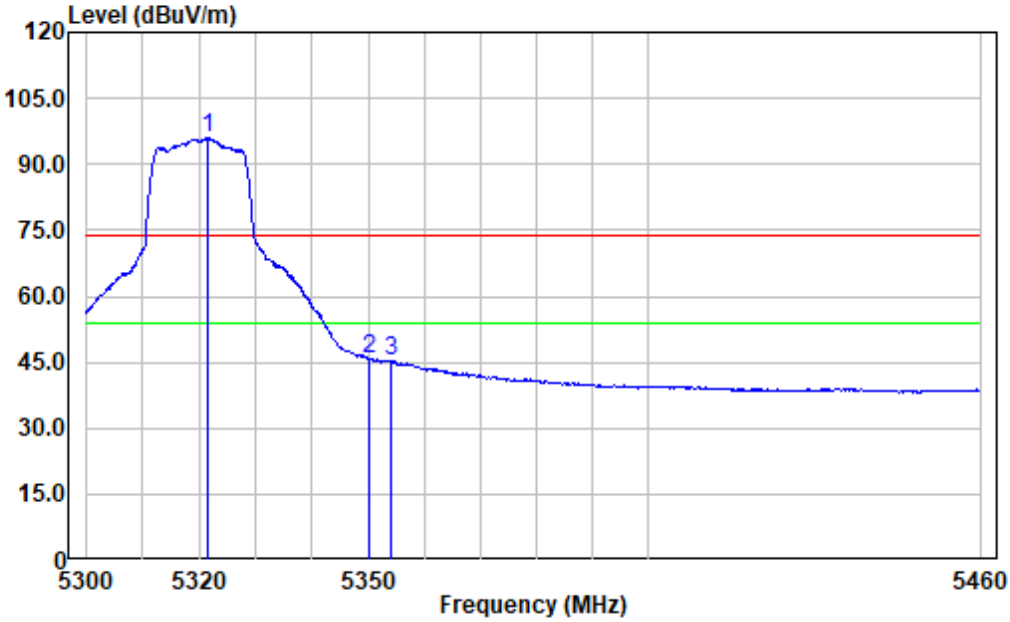
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5321.440	8.61	32.53	97.23	95.98	54.00	41.98	Average
2	5350.000	8.64	32.52	46.89	45.81	54.00	-8.19	Average
3	5354.080	8.65	32.52	46.52	45.48	54.00	-8.52	Average

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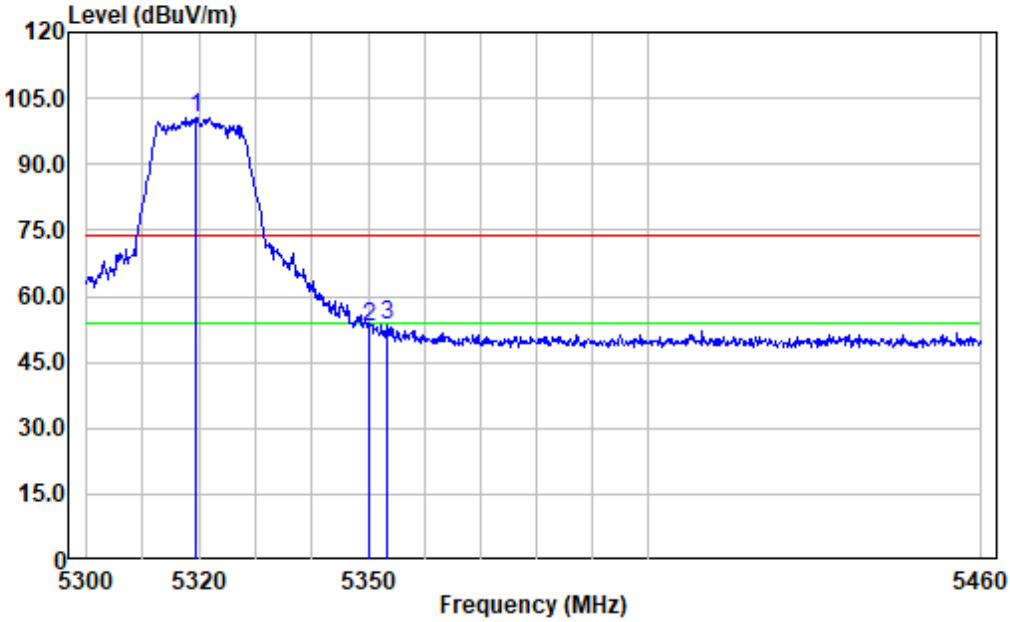
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5319.520	8.61	32.53	101.86	100.60	74.00	26.60	Peak
2	5350.000	8.64	32.52	53.87	52.79	74.00	-21.21	Peak
3	5353.440	8.65	32.52	54.35	53.30	74.00	-20.70	Peak

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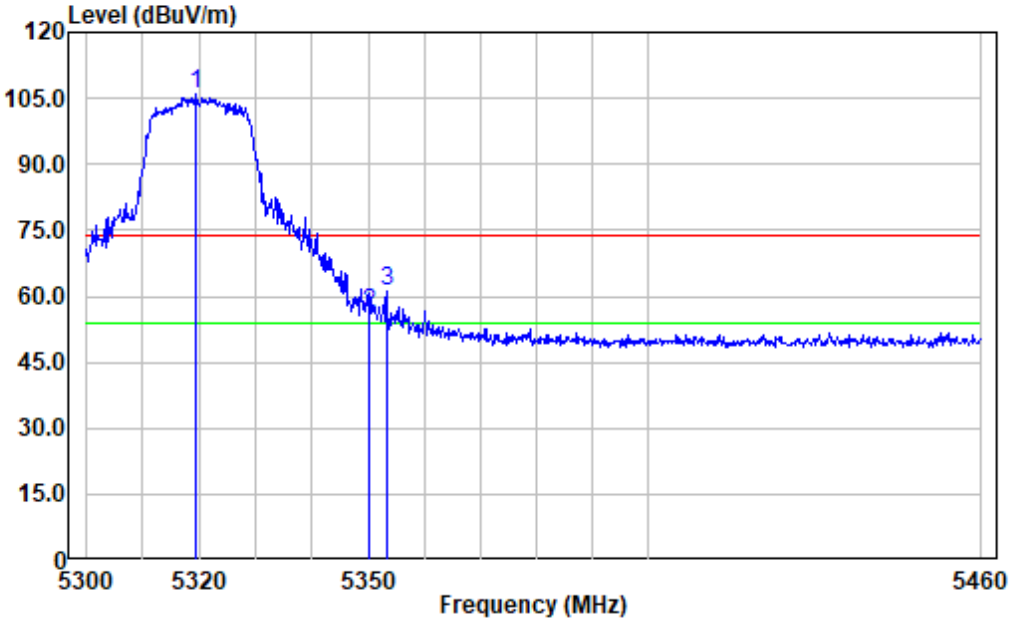
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5319.360	8.61	32.53	107.21	105.95	74.00	31.95	Peak
2	5350.000	8.64	32.52	57.37	56.29	74.00	-17.71	Peak
3	5353.120	8.65	32.52	62.01	60.96	74.00	-13.04	Peak

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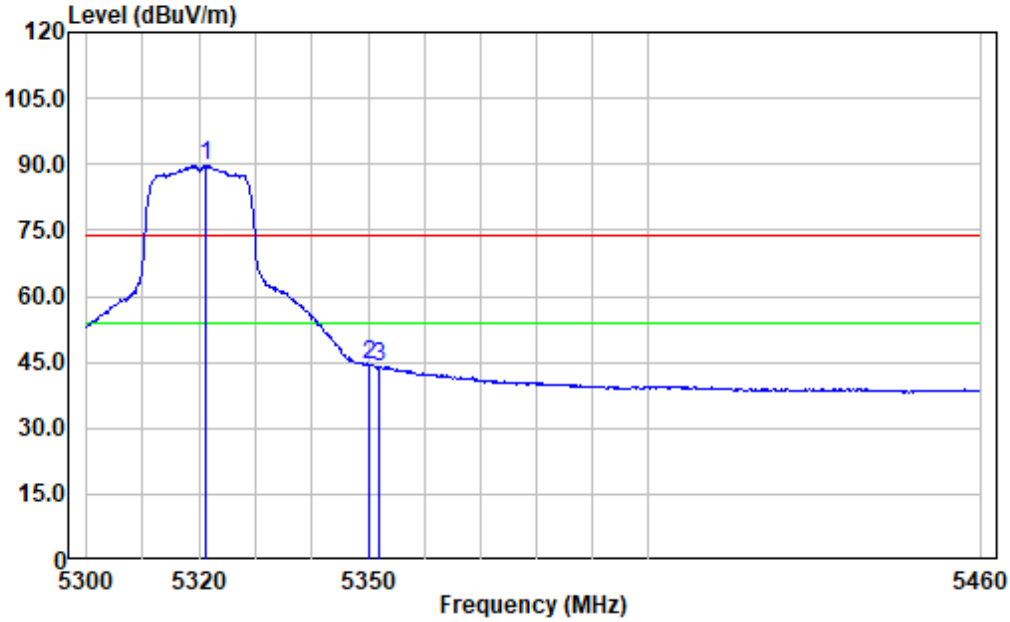
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5320.960	8.61	32.53	90.86	89.61	54.00	35.61	Average
2	5350.000	8.64	32.52	45.46	44.38	54.00	-9.62	Average
3	5351.840	8.65	32.52	44.97	43.91	54.00	-10.09	Average

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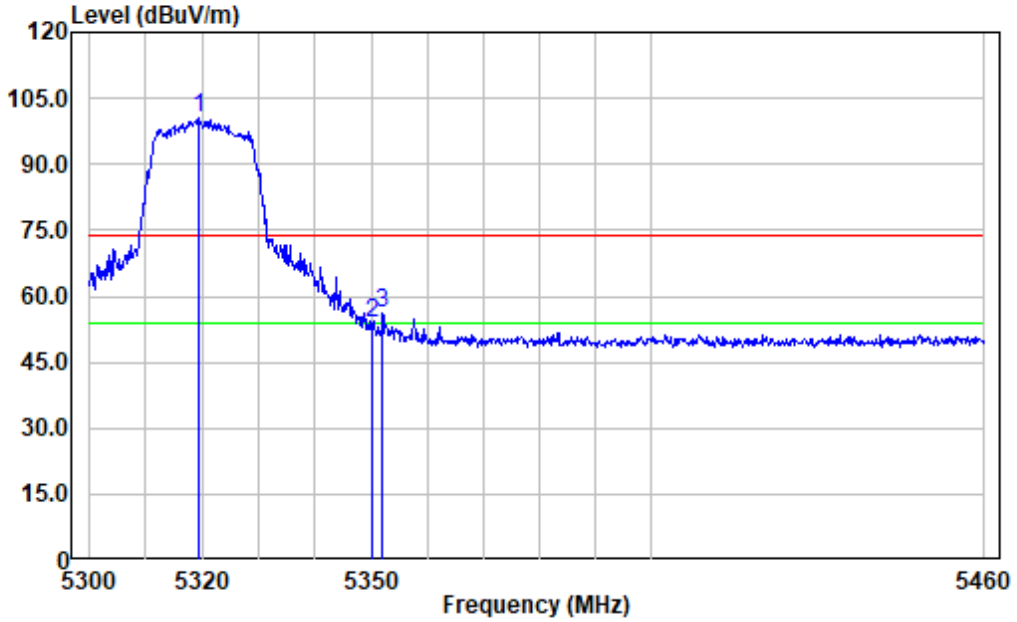
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5319.200	8.61	32.53	101.96	100.70	74.00	26.70	Peak
2	5350.000	8.64	32.52	55.01	53.93	74.00	-20.07	Peak
3	5352.000	8.65	32.52	57.00	55.95	74.00	-18.05	Peak

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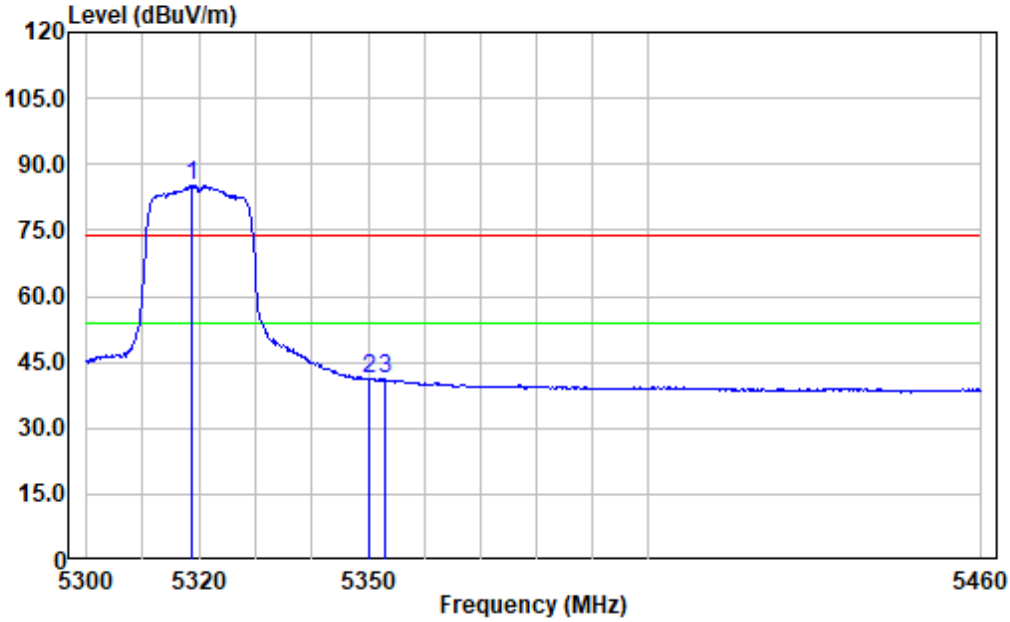

Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5318.720	8.60	32.53	86.57	85.30	54.00	31.30	Average
2	5350.000	8.64	32.52	42.37	41.29	54.00	-12.71	Average
3	5352.960	8.65	32.52	42.15	41.10	54.00	-12.90	Average

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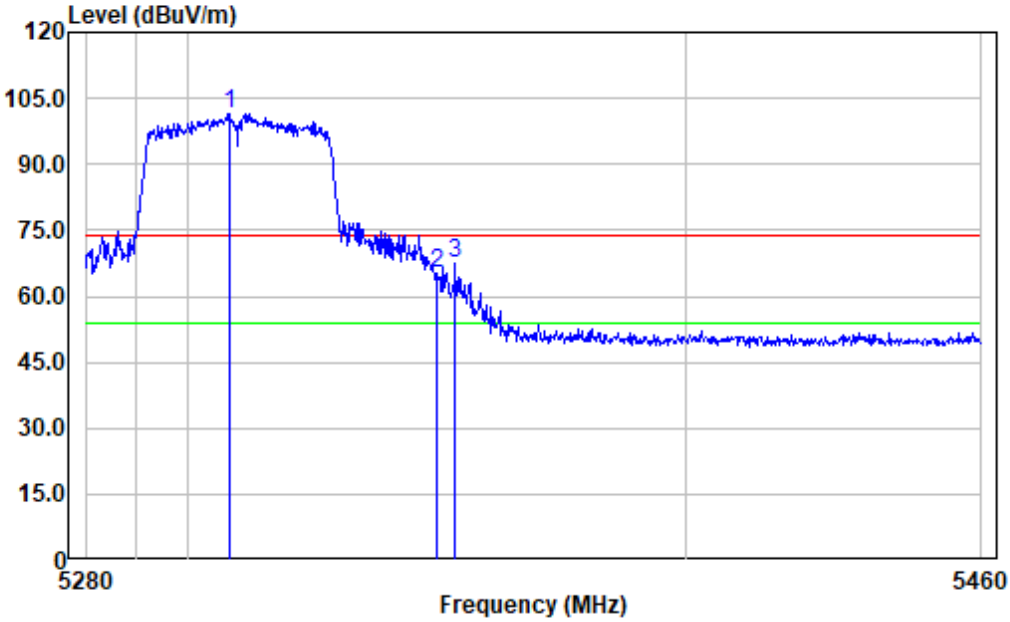
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5308.440	8.59	32.54	102.77	101.44	74.00	27.44	Peak
2	5350.000	8.64	32.52	66.07	64.99	74.00	-9.01	Peak
3	5353.440	8.65	32.52	68.64	67.59	74.00	-6.41	Peak

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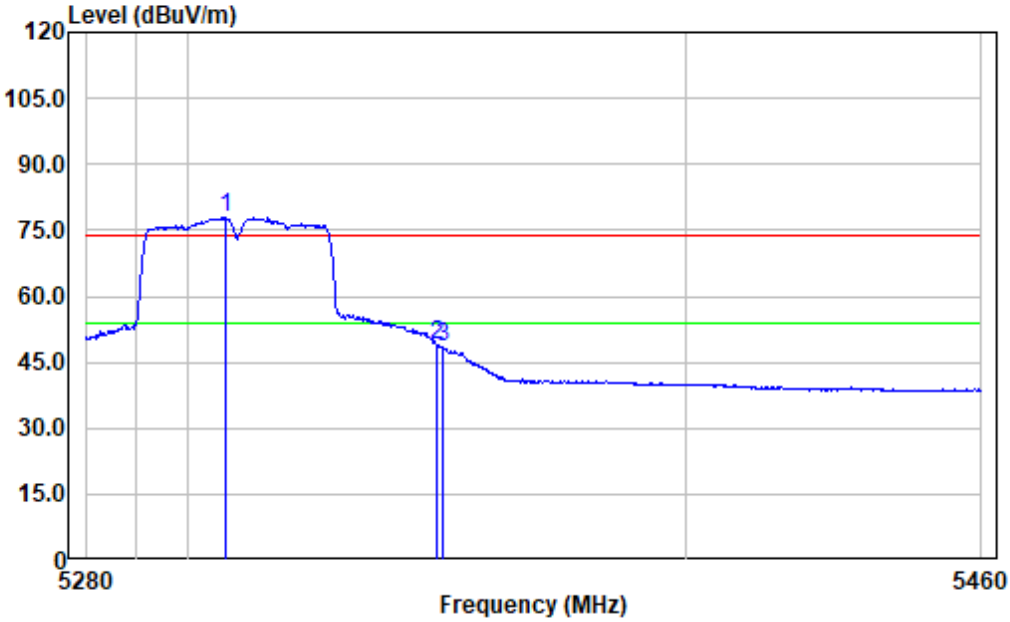
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5307.540	8.59	32.54	79.39	78.06	54.00	24.06	Average
2	5350.000	8.64	32.52	49.94	48.86	54.00	-5.14	Average
3	5351.100	8.65	32.52	49.50	48.44	54.00	-5.56	Average

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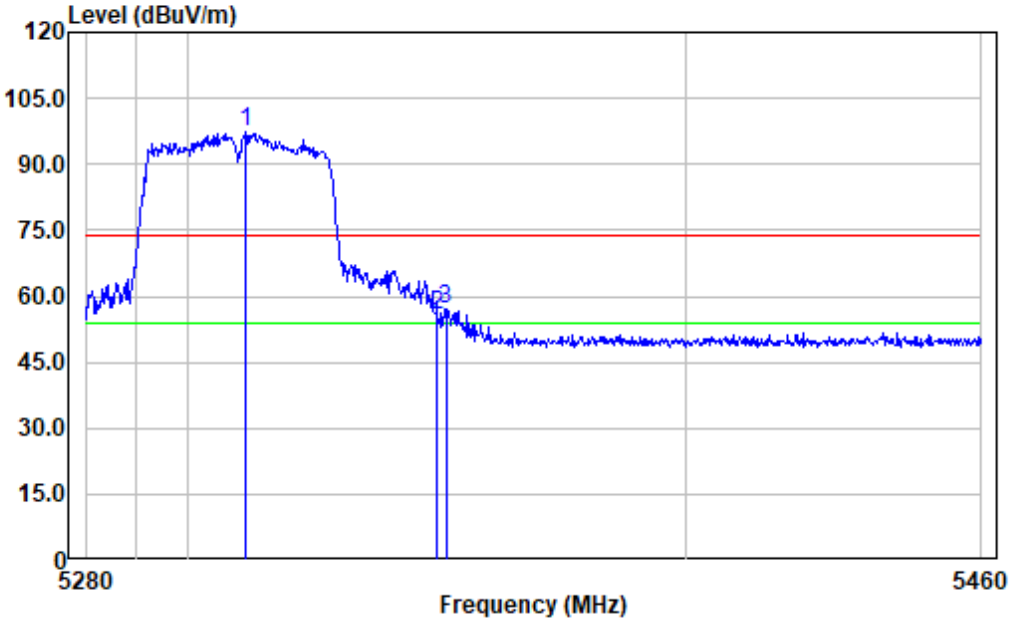
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5311.680	8.60	32.54	98.59	97.29	74.00	23.29	Peak
2	5350.000	8.64	32.52	56.91	55.83	74.00	-18.17	Peak
3	5351.640	8.65	32.52	58.30	57.24	74.00	-16.76	Peak

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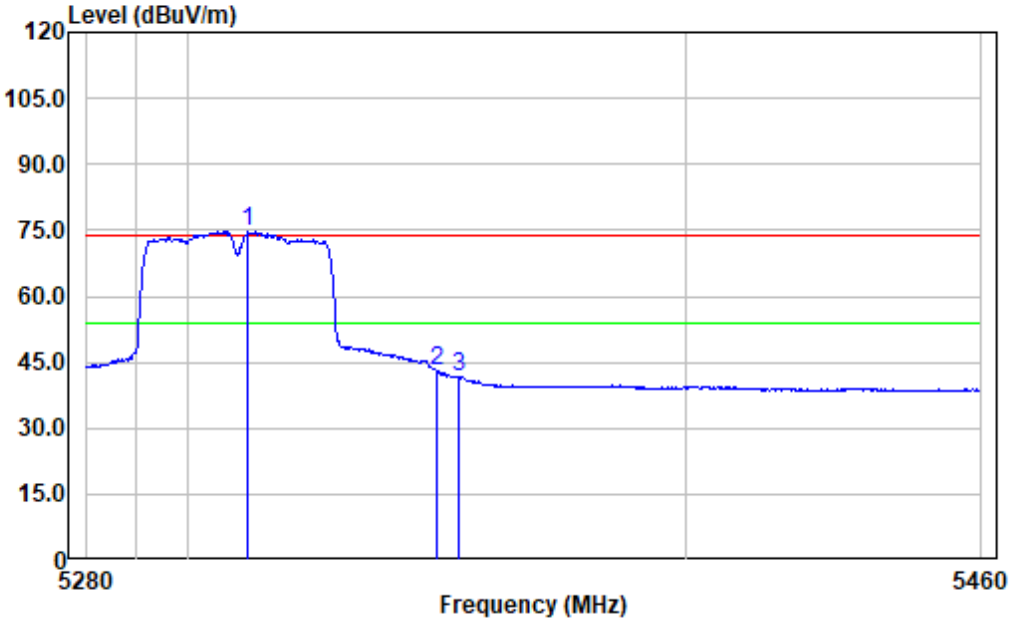
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5312.220	8.60	32.54	76.10	74.80	54.00	20.80	Average
2	5350.000	8.64	32.52	44.06	42.98	54.00	-11.02	Average
3	5354.160	8.65	32.52	42.87	41.83	54.00	-12.17	Average

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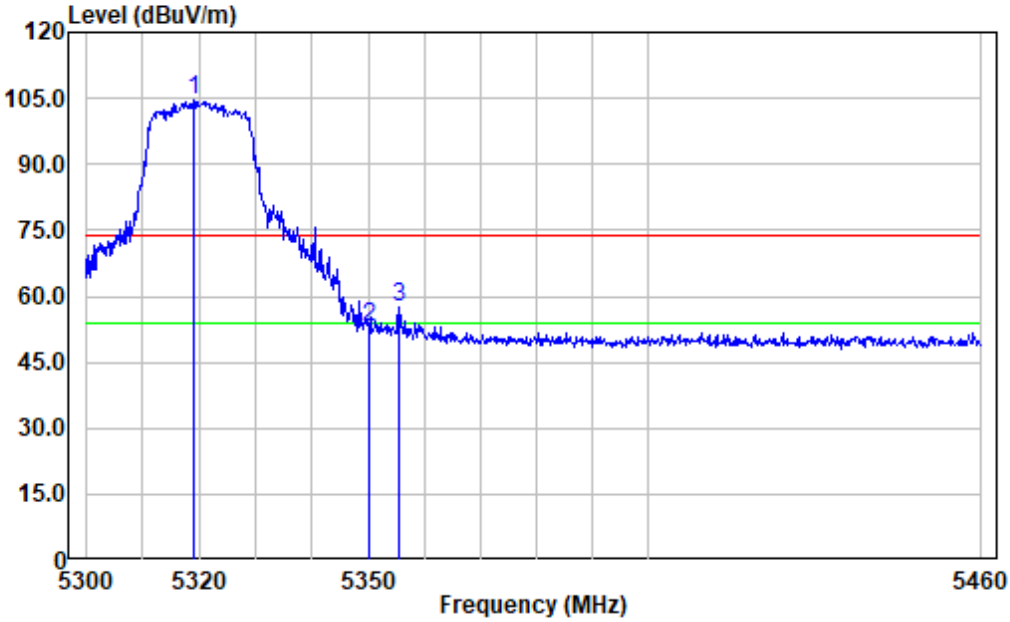
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5318.880	8.60	32.53	106.08	104.81	74.00	30.81	Peak
2	5350.000	8.64	32.52	54.20	53.12	74.00	-20.88	Peak
3	5355.520	8.65	32.52	58.65	57.61	74.00	-16.39	Peak

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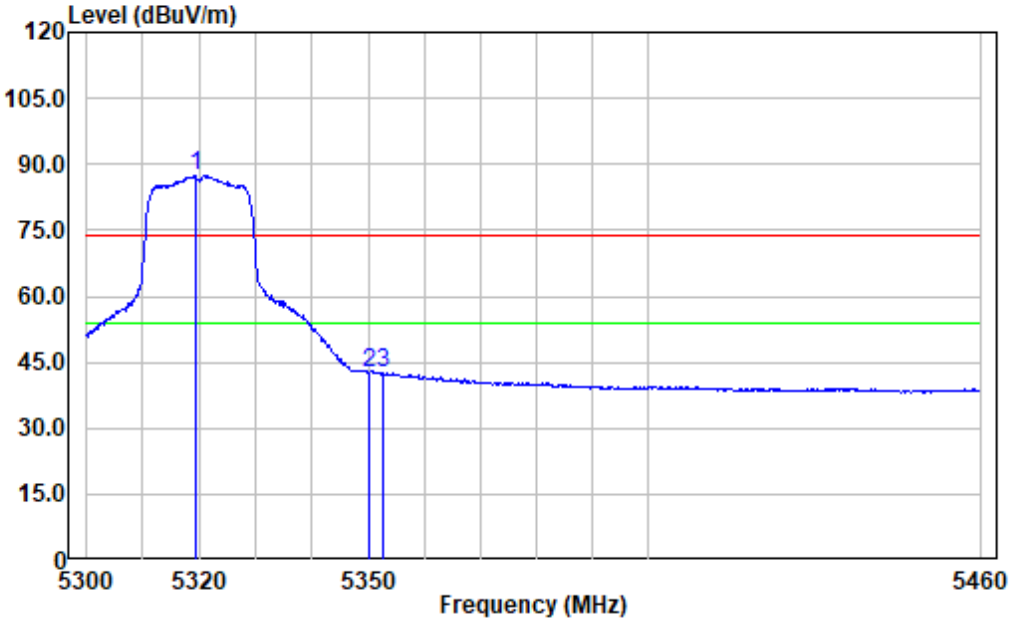
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5319.200	8.61	32.53	88.57	87.31	54.00	33.31	Average
2	5350.000	8.64	32.52	43.77	42.69	54.00	-11.31	Average
3	5352.640	8.65	32.52	43.45	42.40	54.00	-11.60	Average

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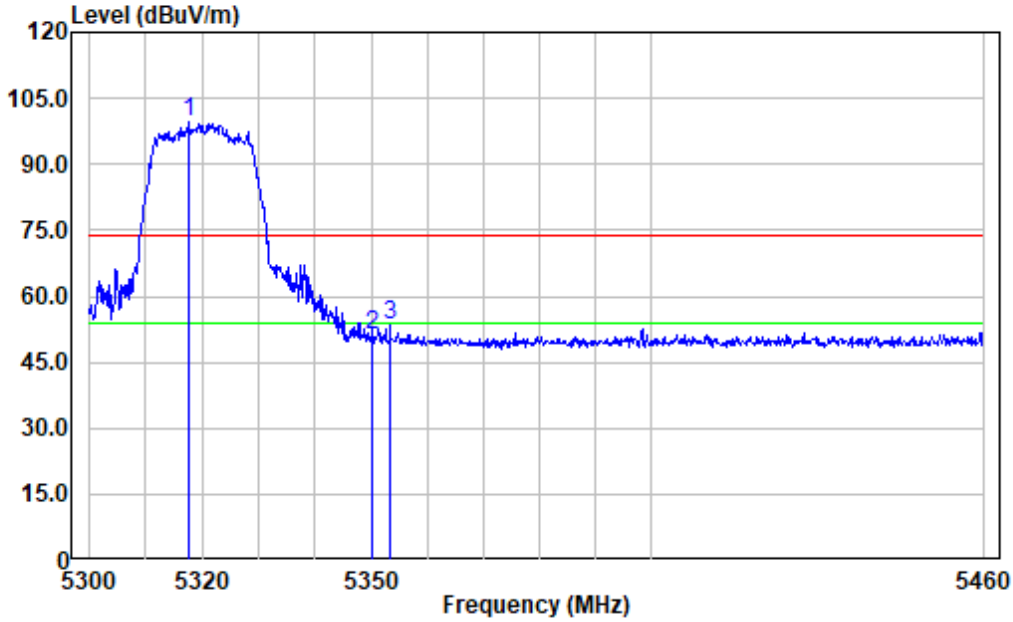
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5317.760	8.60	32.53	100.87	99.59	74.00	25.59	Peak
2	5350.000	8.64	32.52	52.20	51.12	74.00	-22.88	Peak
3	5353.280	8.65	32.52	54.28	53.23	74.00	-20.77	Peak

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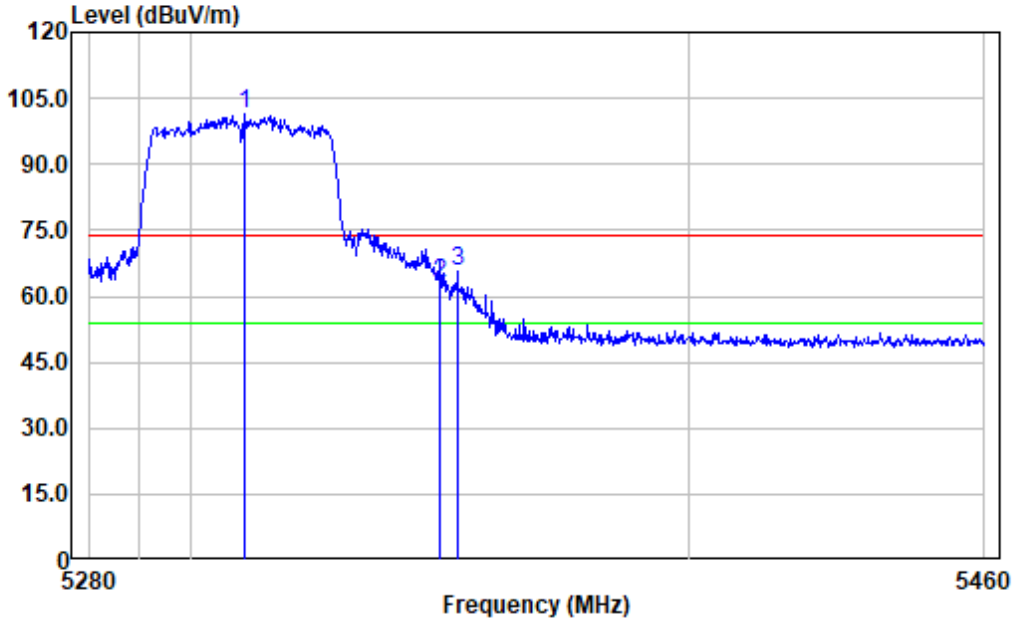
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5310.780	8.59	32.54	102.79	101.48	74.00	27.48	Peak
2	5350.000	8.64	32.52	63.80	62.72	74.00	-11.28	Peak
3	5353.440	8.65	32.52	66.76	65.71	74.00	-8.29	Peak

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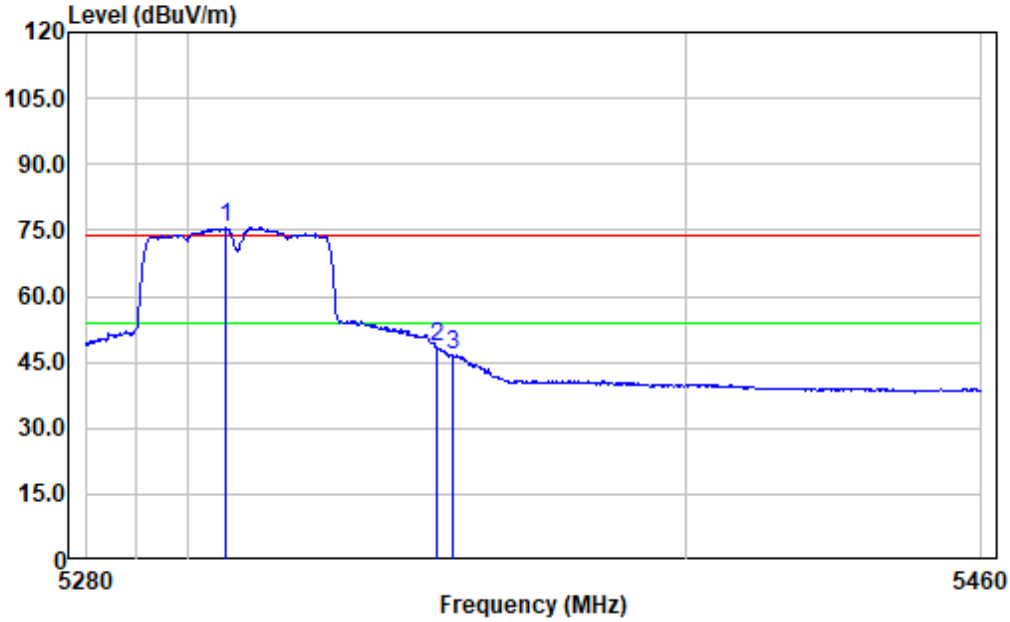
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5307.720	8.59	32.54	77.12	75.79	54.00	21.79	Average
2	5350.000	8.64	32.52	49.51	48.43	54.00	-5.57	Average
3	5352.900	8.65	32.52	47.83	46.78	54.00	-7.22	Average

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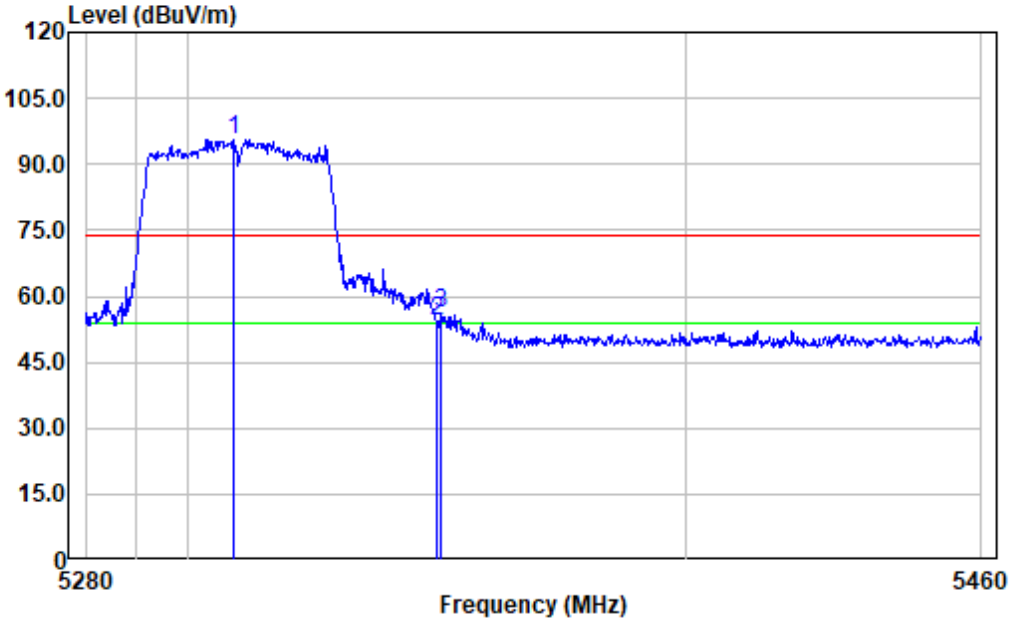

Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5309.160	8.59	32.54	97.02	95.70	74.00	21.70	Peak
2	5350.000	8.64	32.52	55.48	54.40	74.00	-19.60	Peak
3	5350.560	8.64	32.52	57.32	56.25	74.00	-17.75	Peak

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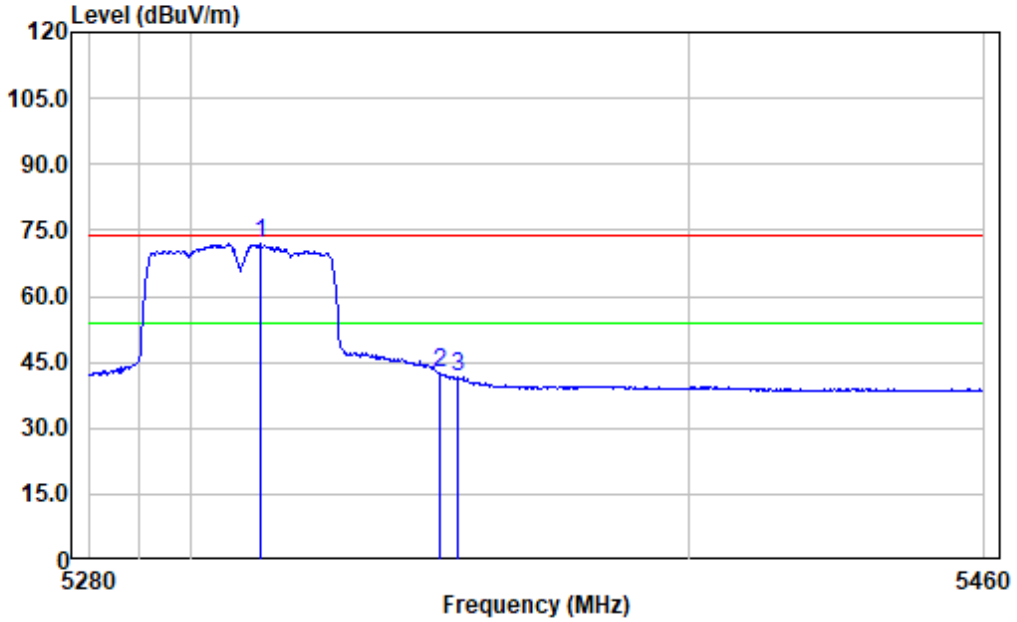

Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5313.840	8.60	32.53	73.16	71.86	54.00	17.86	Average
2	5350.000	8.64	32.52	43.65	42.57	54.00	-11.43	Average
3	5353.620	8.65	32.52	42.71	41.66	54.00	-12.34	Average

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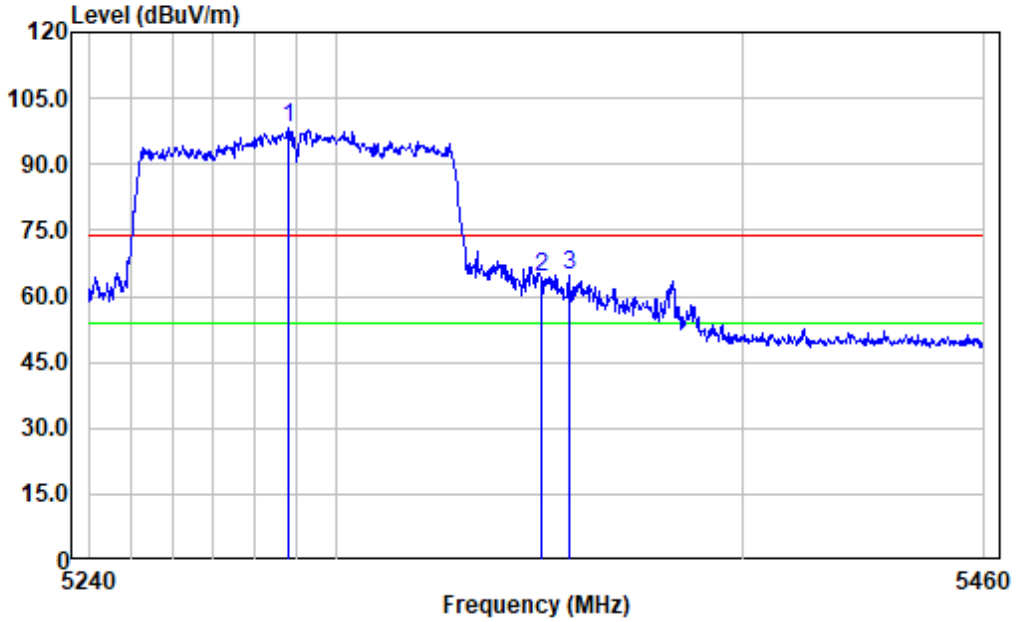
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5288.180	8.57	32.54	99.64	98.25	74.00	24.25	Peak
2	5350.000	8.64	32.52	65.26	64.18	74.00	-9.82	Peak
3	5356.820	8.65	32.52	65.71	64.68	74.00	-9.32	Peak

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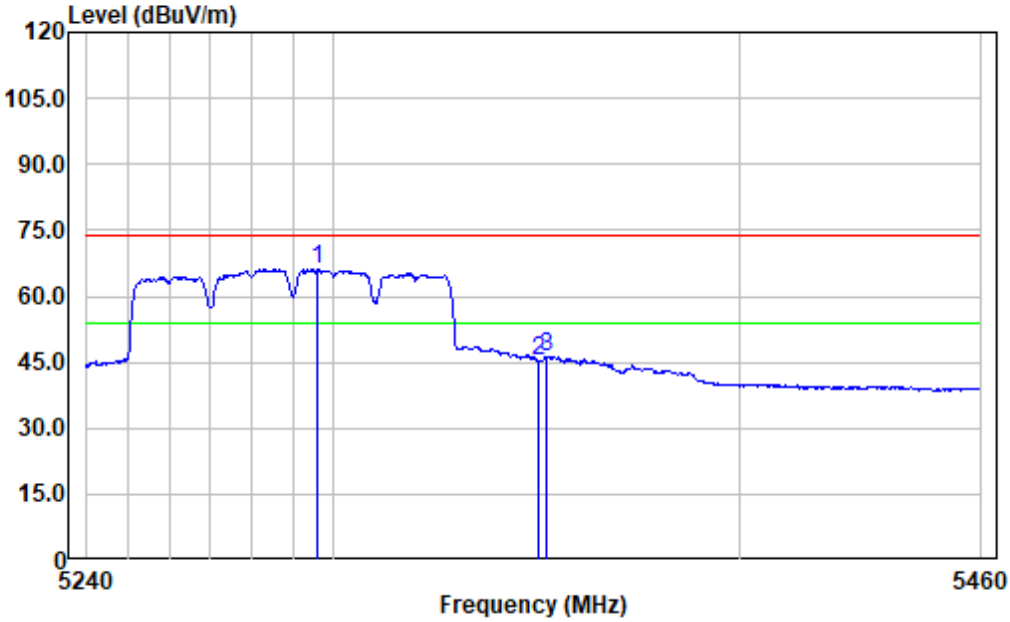
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5296.100	8.58	32.54	67.46	66.08	54.00	12.08	Average
2	5350.000	8.64	32.52	46.33	45.25	54.00	-8.75	Average
3	5352.200	8.65	32.52	47.41	46.36	54.00	-7.64	Average

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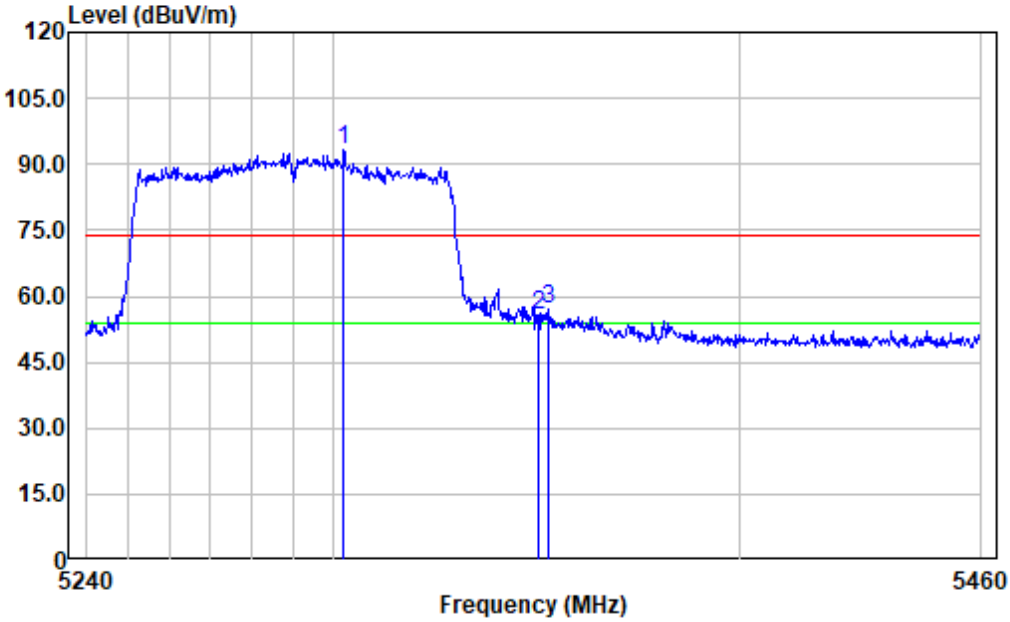
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5302.480	8.58	32.54	94.44	93.07	74.00	19.07	Peak
2	5350.000	8.64	32.52	56.59	55.51	74.00	-18.49	Peak
3	5352.420	8.65	32.52	58.23	57.18	74.00	-16.82	Peak

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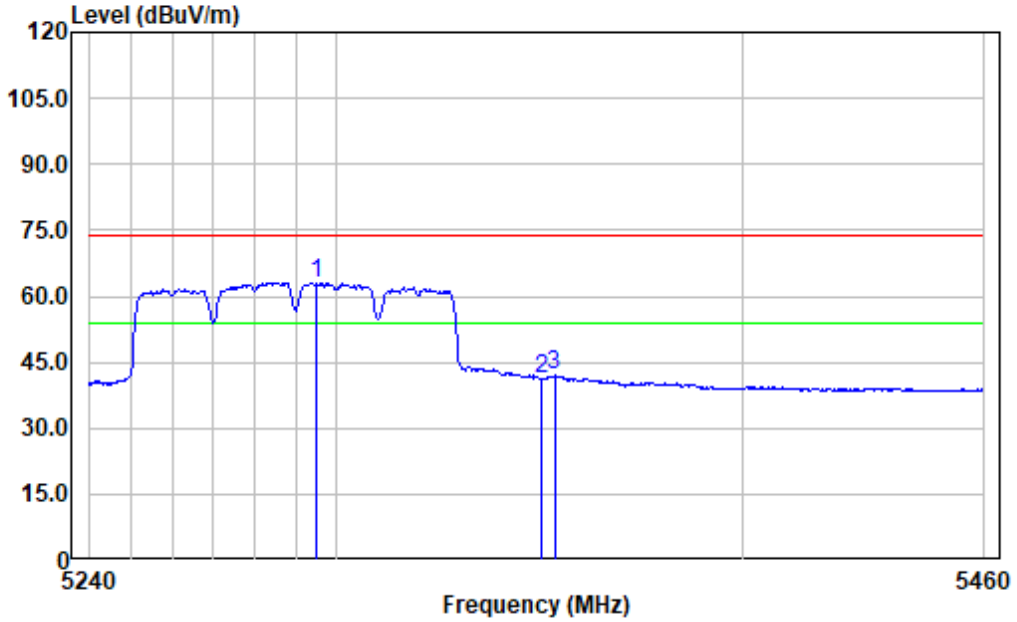
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5295.000	8.57	32.54	64.47	63.08	54.00	9.08	Average
2	5350.000	8.64	32.52	42.27	41.19	54.00	-12.81	Average
3	5353.300	8.65	32.52	43.17	42.12	54.00	-11.88	Average

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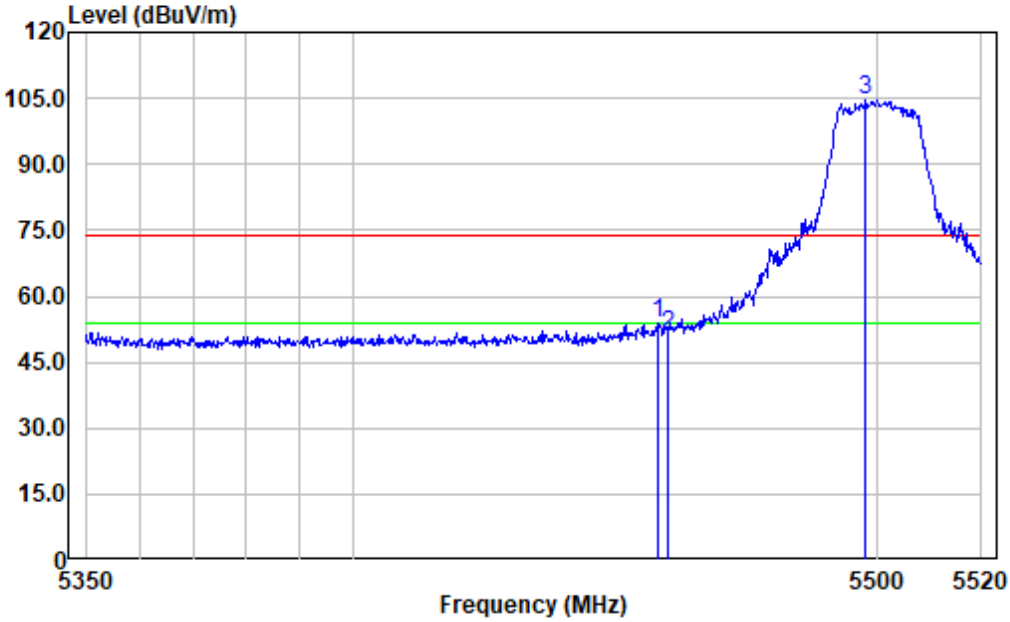
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5458.120	8.78	32.51	54.36	53.85	74.00	-20.15	Peak
2	5460.000	8.78	32.51	51.50	50.99	74.00	-23.01	Peak
3	5497.900	8.83	32.52	104.84	104.50	74.00	30.50	Peak

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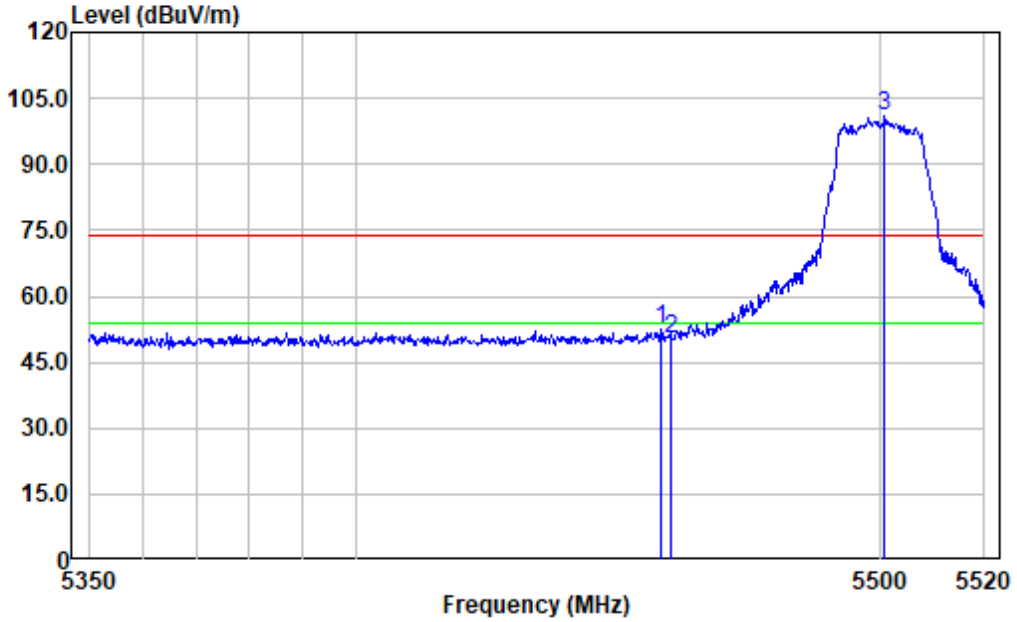
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5457.950	8.78	32.51	53.05	52.54	74.00	-21.46	Peak
2	5460.000	8.78	32.51	50.88	50.37	74.00	-23.63	Peak
3	5500.790	8.84	32.52	101.46	101.14	74.00	27.14	Peak

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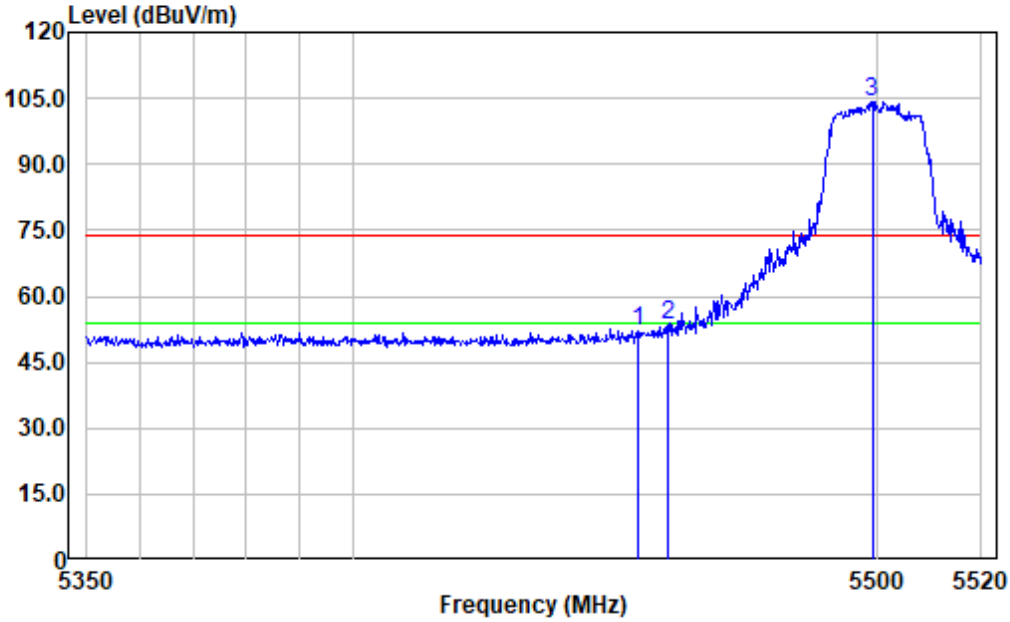
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5454.210	8.78	32.51	52.74	52.22	74.00	-21.78	Peak
2	5460.000	8.78	32.51	53.83	53.32	74.00	-20.68	Peak
3	5499.090	8.83	32.52	104.51	104.18	74.00	30.18	Peak

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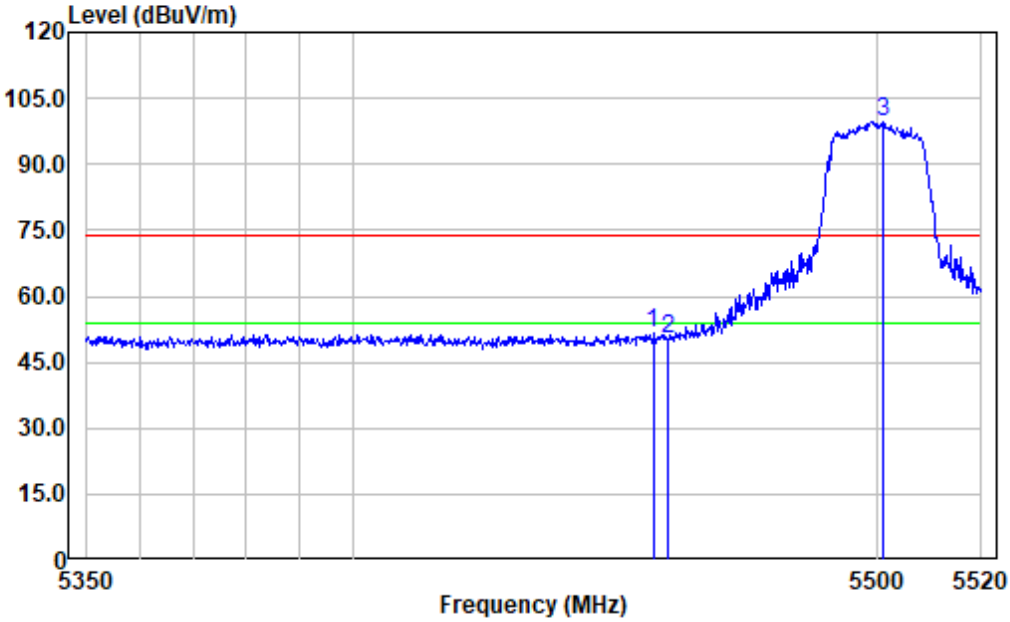
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5457.100	8.78	32.51	52.20	51.69	74.00	-22.31	Peak
2	5460.000	8.78	32.51	50.58	50.07	74.00	-23.93	Peak
3	5501.300	8.84	32.52	99.99	99.67	74.00	25.67	Peak

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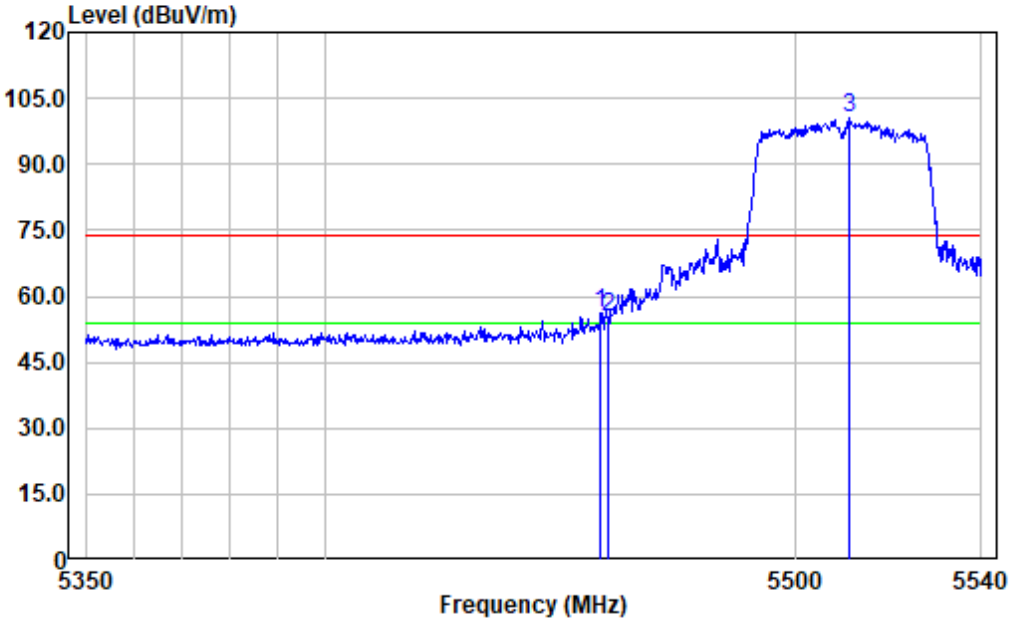
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5458.490	8.78	32.51	56.58	56.07	74.00	-17.93	Peak
2	5460.000	8.78	32.51	55.94	55.43	74.00	-18.57	Peak
3	5511.500	8.85	32.53	100.67	100.41	74.00	26.41	Peak

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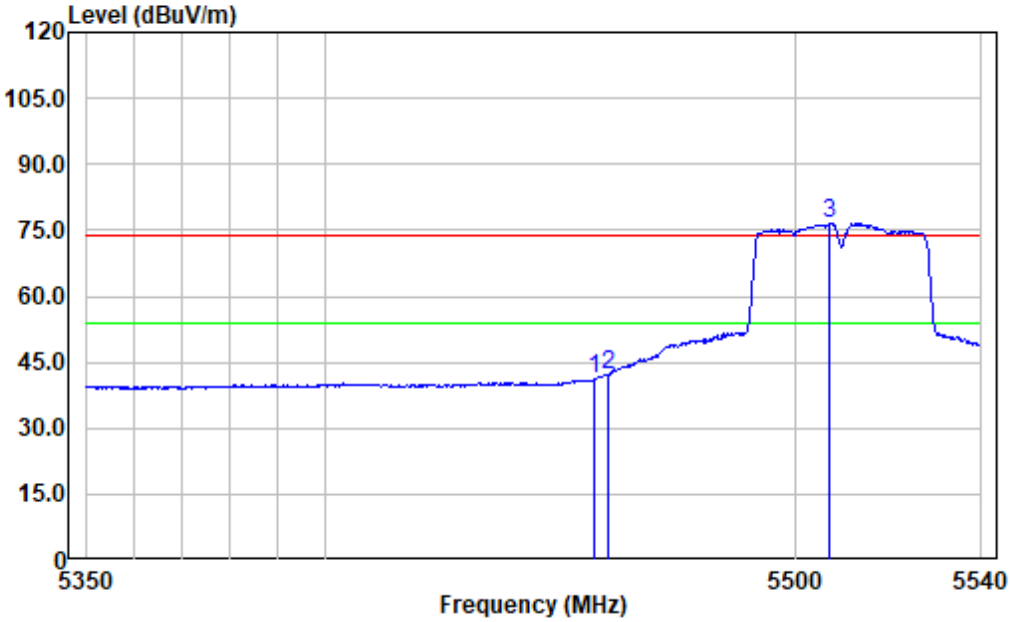
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5457.160	8.78	32.51	41.83	41.32	54.00	-12.68	Average
2	5460.000	8.78	32.51	42.57	42.06	54.00	-11.94	Average
3	5507.510	8.84	32.53	76.88	76.59	54.00	22.59	Average

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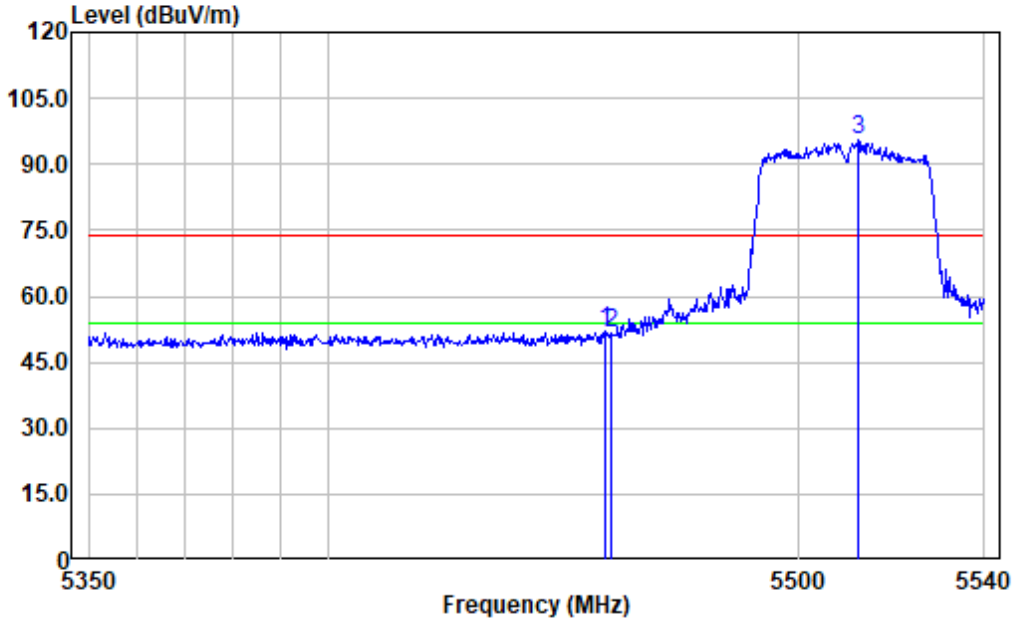
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5458.870	8.78	32.51	52.68	52.17	74.00	-21.83	Peak
2	5460.000	8.78	32.51	52.21	51.70	74.00	-22.30	Peak
3	5512.830	8.85	32.53	95.64	95.38	74.00	21.38	Peak

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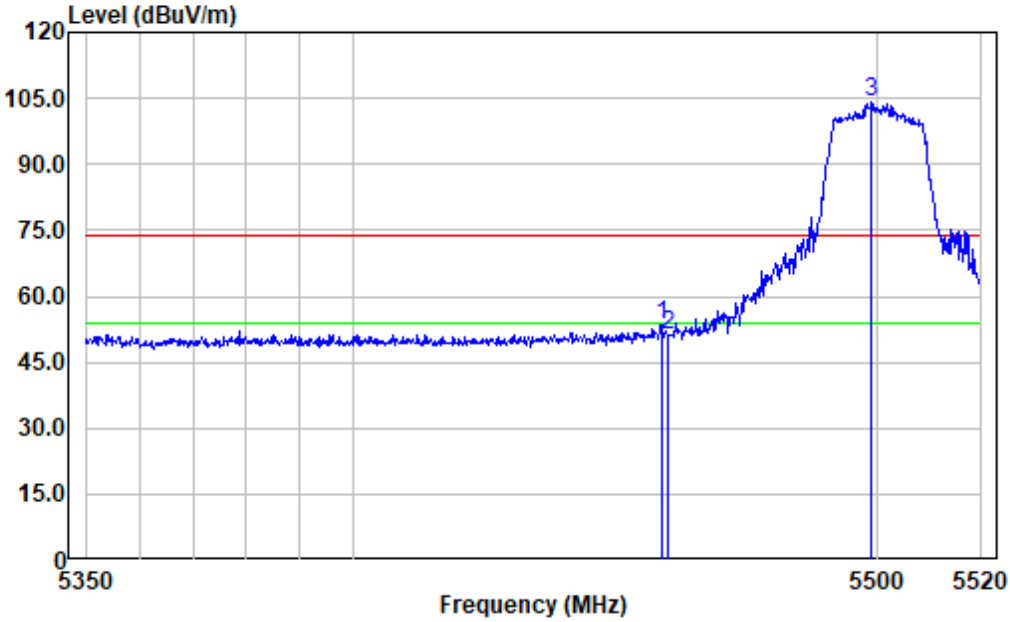
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5458.970	8.78	32.51	54.11	53.60	74.00	-20.40	Peak
2	5460.000	8.78	32.51	51.81	51.30	74.00	-22.70	Peak
3	5498.920	8.83	32.52	104.54	104.21	74.00	30.21	Peak

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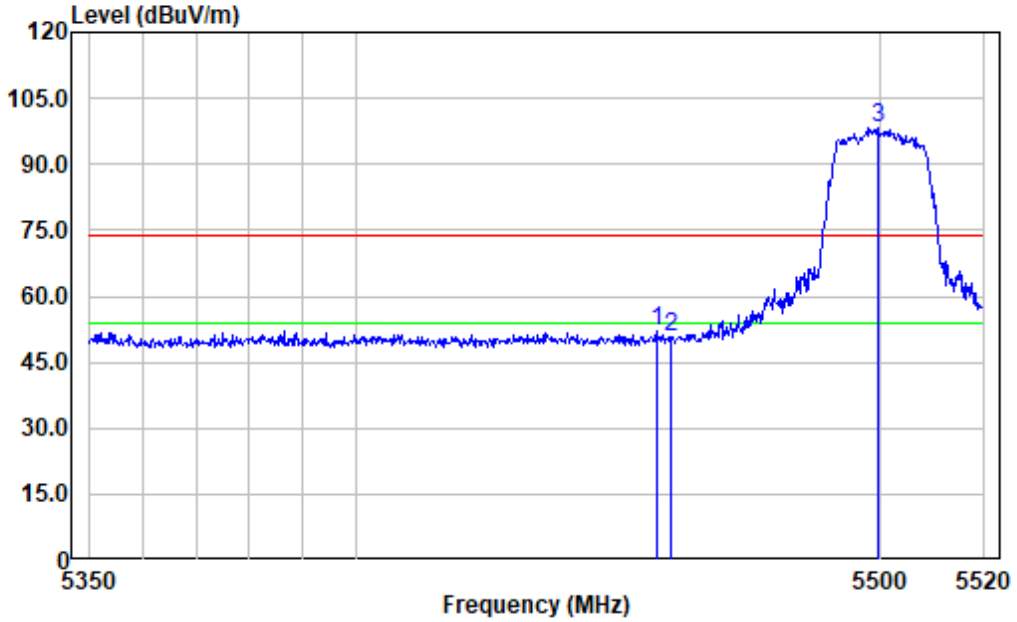
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5457.270	8.78	32.51	52.41	51.90	74.00	-22.10	Peak
2	5460.000	8.78	32.51	51.39	50.88	74.00	-23.12	Peak
3	5499.600	8.83	32.52	98.78	98.45	74.00	24.45	Peak

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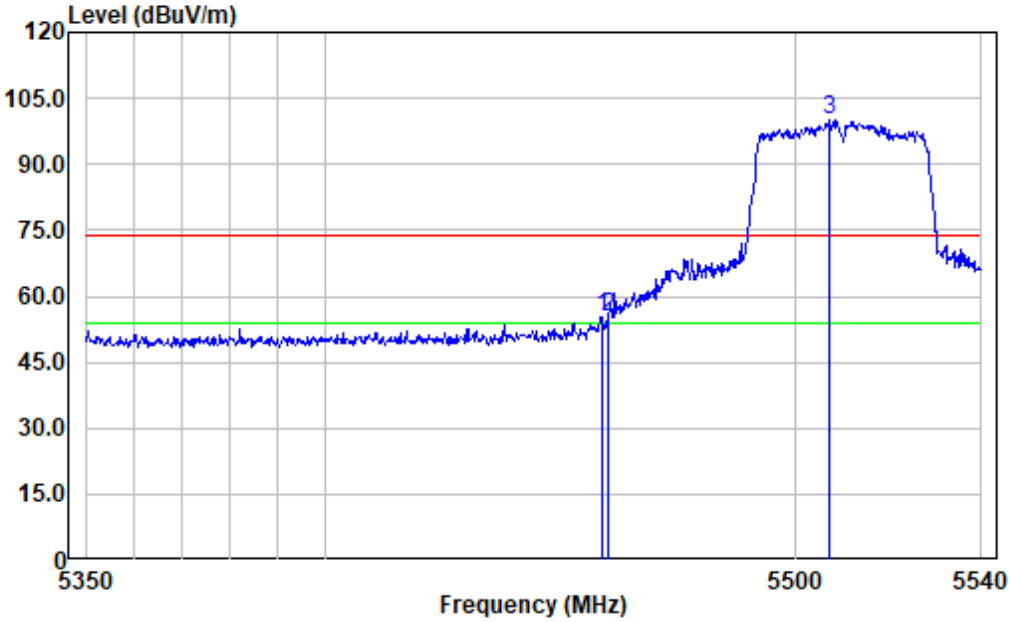
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5458.870	8.78	32.51	55.86	55.35	74.00	-18.65	Peak
2	5460.000	8.78	32.51	55.59	55.08	74.00	-18.92	Peak
3	5507.510	8.84	32.53	100.57	100.28	74.00	26.28	Peak

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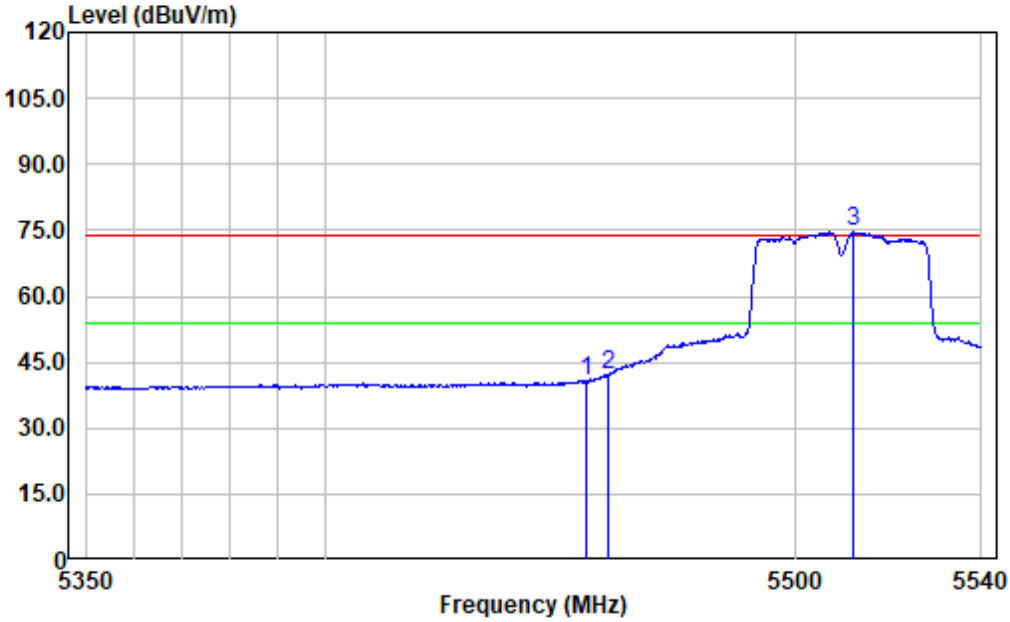
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5455.450	8.78	32.51	41.32	40.80	54.00	-13.20	Average
2	5460.000	8.78	32.51	42.47	41.96	54.00	-12.04	Average
3	5512.640	8.85	32.53	74.88	74.62	54.00	20.62	Average

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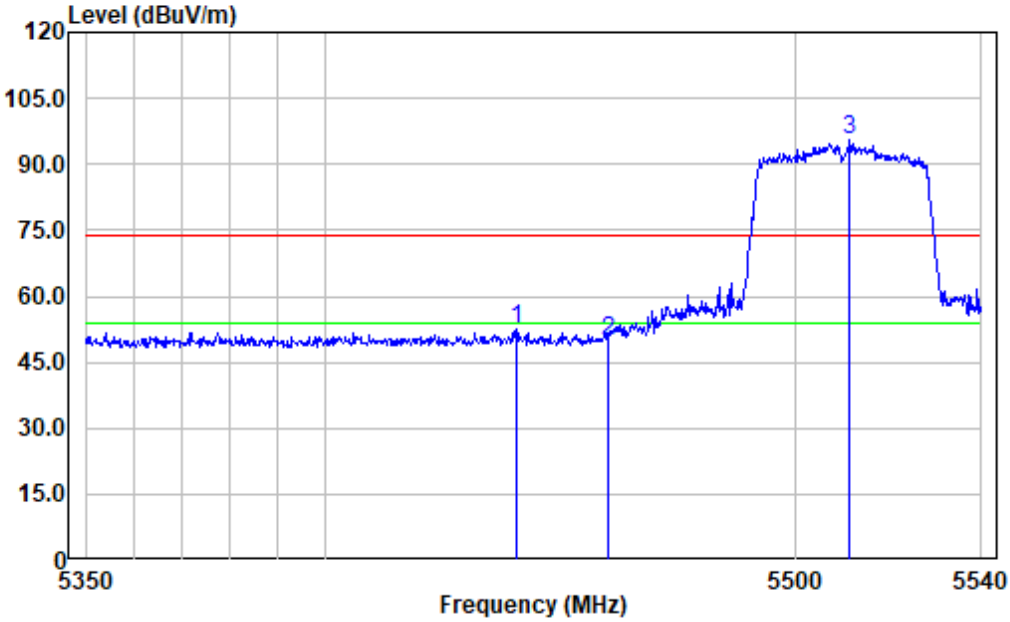
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5440.440	8.76	32.51	53.11	52.53	74.00	-21.47	Peak
2	5460.000	8.78	32.51	50.44	49.93	74.00	-24.07	Peak
3	5511.690	8.85	32.53	95.61	95.35	74.00	21.35	Peak

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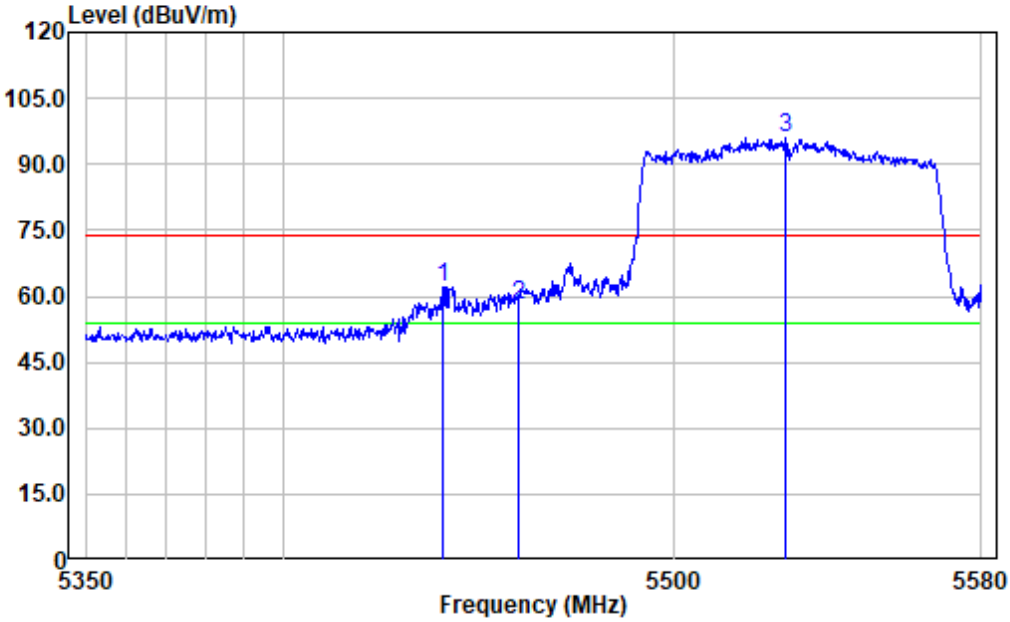
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5440.620	8.76	32.51	62.84	62.26	74.00	-11.74	Peak
2	5460.000	8.78	32.51	58.62	58.11	74.00	-15.89	Peak
3	5529.170	8.87	32.55	96.25	96.08	74.00	22.08	Peak

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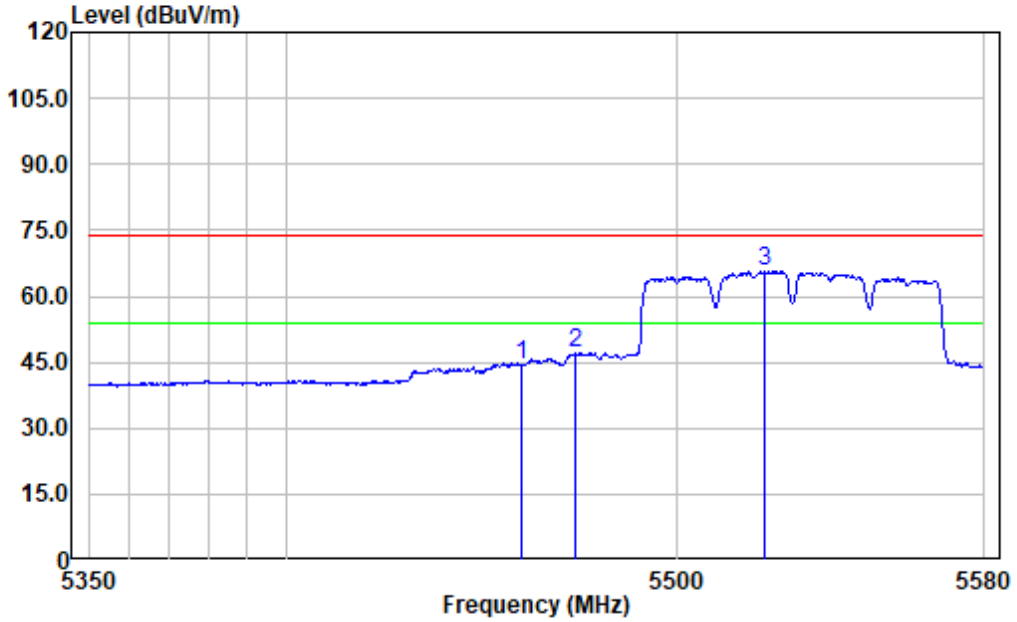
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5460.000	8.78	32.51	44.75	44.24	54.00	-9.76	Average
2	5473.740	8.80	32.51	47.58	47.13	54.00	-6.87	Average
3	5522.960	8.86	32.55	65.80	65.60	54.00	11.60	Average

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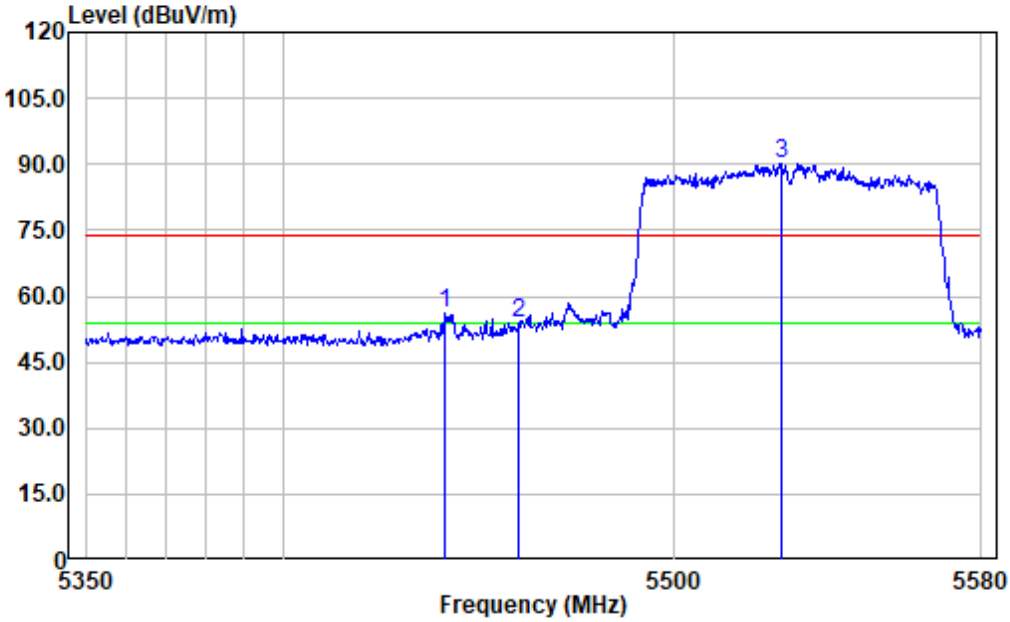
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5440.850	8.76	32.51	56.75	56.17	74.00	-17.83	Peak
2	5460.000	8.78	32.51	54.46	53.95	74.00	-20.05	Peak
3	5527.790	8.87	32.55	90.40	90.23	74.00	16.23	Peak

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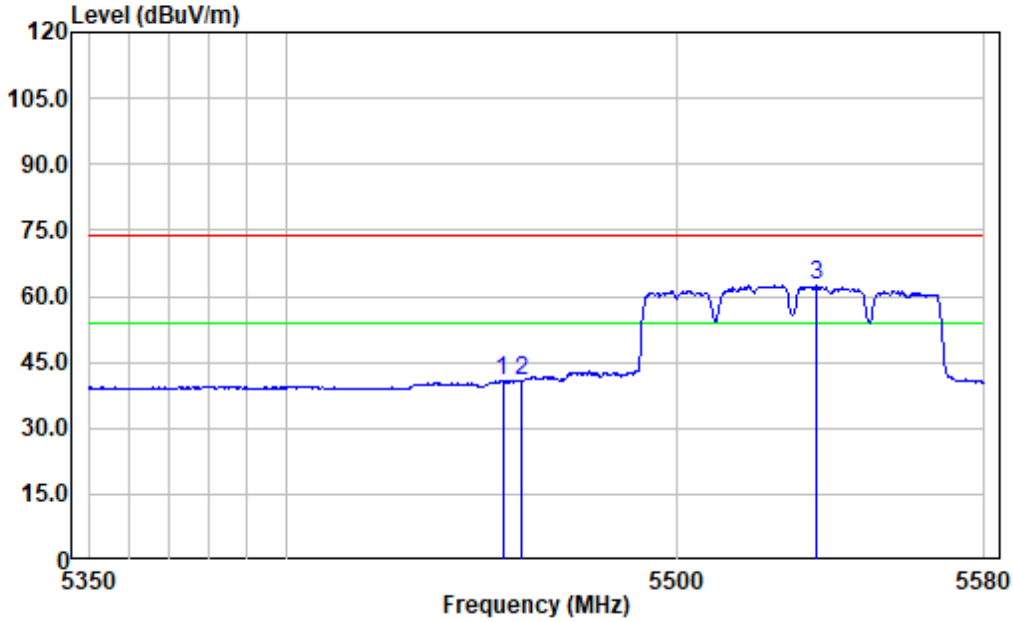
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5455.110	8.78	32.51	41.50	40.98	54.00	-13.02	Average
2	5460.000	8.78	32.51	41.20	40.69	54.00	-13.31	Average
3	5536.070	8.88	32.56	62.51	62.38	54.00	8.38	Average

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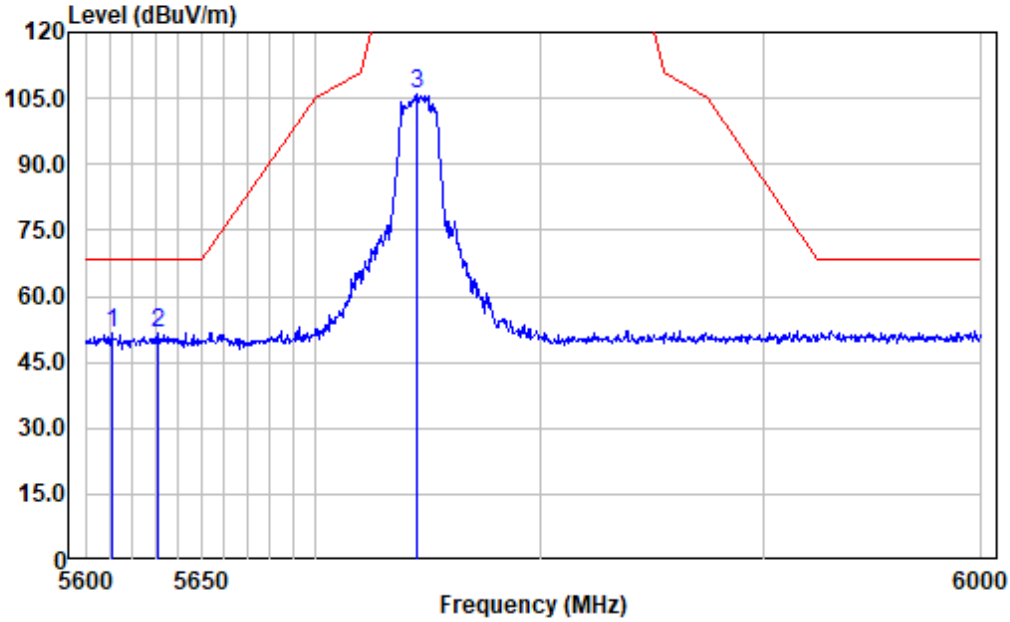
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5611.200	8.94	32.68	51.30	51.49	68.20	-16.71	Peak
2	5631.200	8.95	32.76	51.64	51.82	68.20	-16.38	Peak
3	5744.400	9.01	33.24	105.60	105.90	135.00	-29.10	Peak

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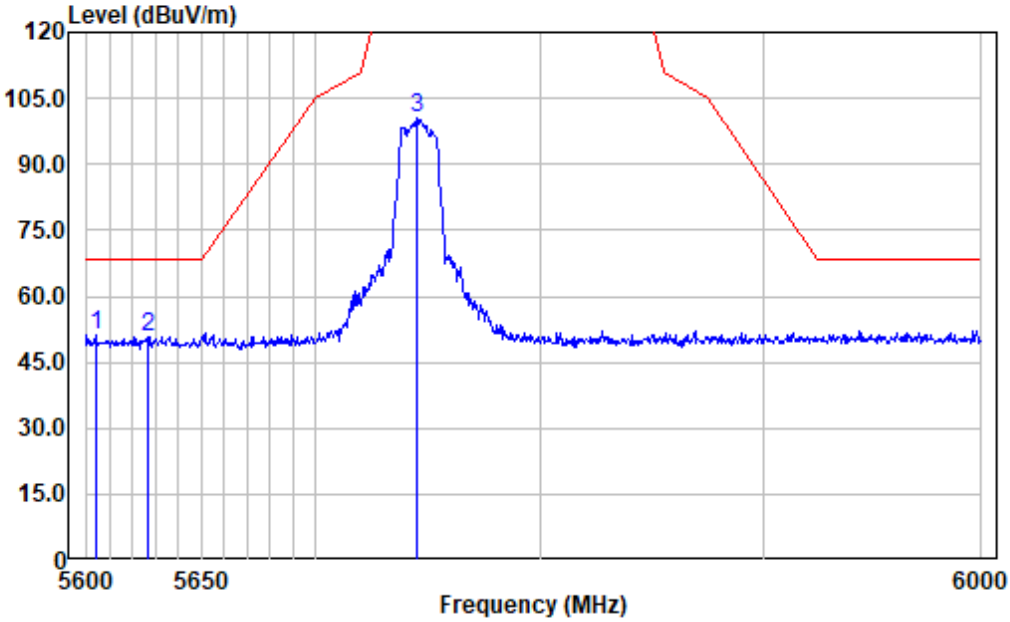
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5604.000	8.93	32.65	51.04	51.23	68.20	-16.97	Peak
2	5626.800	8.94	32.74	50.76	50.93	68.20	-17.27	Peak
3	5744.400	9.01	33.24	100.37	100.67	135.00	-34.33	Peak

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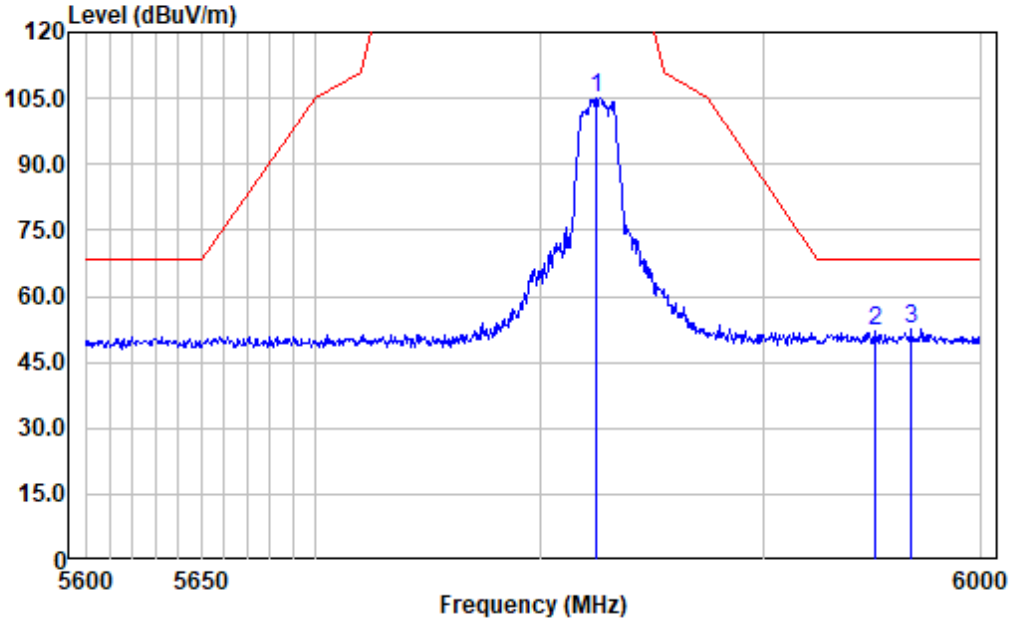
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5824.400	9.05	33.52	104.65	105.08	135.00	-29.92	Peak
2	5951.200	9.11	33.53	52.03	52.20	68.20	-16.00	Peak
3	5968.000	9.12	33.51	52.36	52.54	68.20	-15.66	Peak

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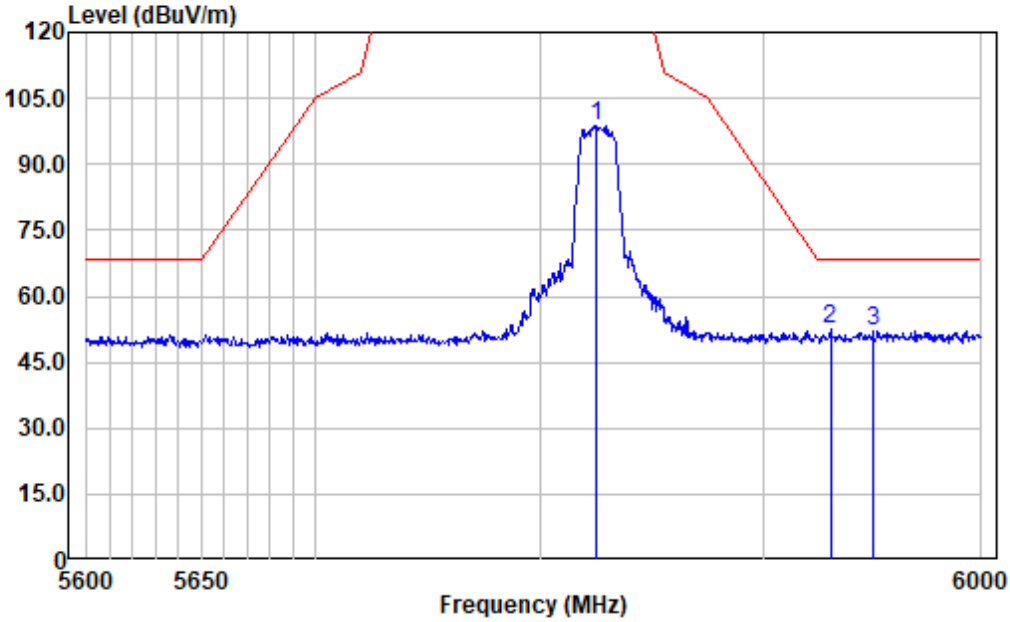
Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5824.400	9.05	33.52	98.23	98.66	135.00	-36.34	Peak
2	5930.800	9.10	33.56	52.55	52.72	68.20	-15.48	Peak
3	5950.400	9.11	33.53	51.86	52.03	68.20	-16.17	Peak

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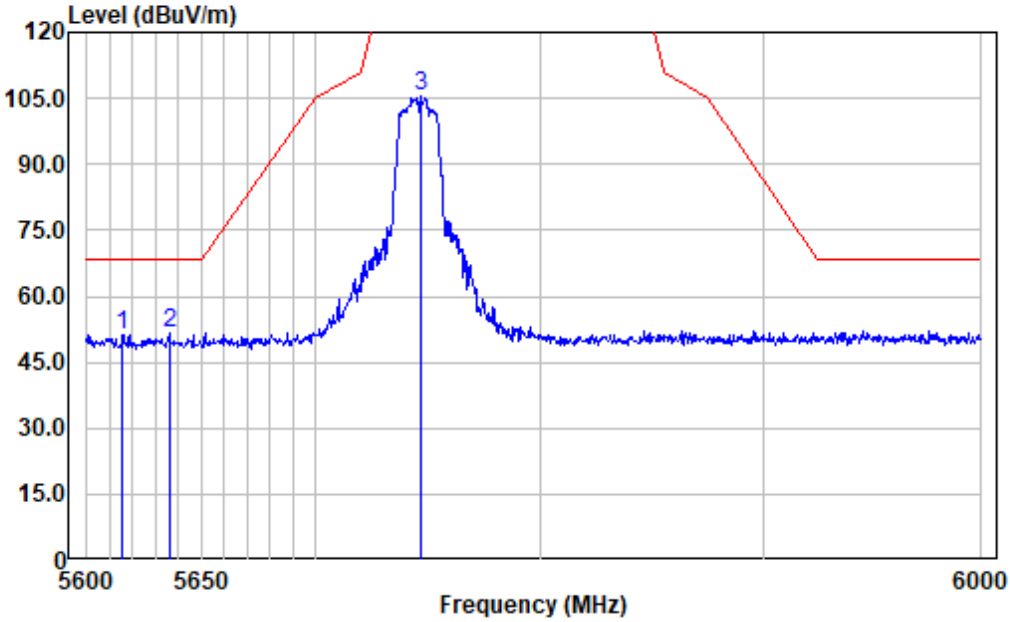
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5615.600	8.94	32.69	51.10	51.28	68.20	-16.92	Peak
2	5636.000	8.95	32.78	51.62	51.79	68.20	-16.41	Peak
3	5746.400	9.01	33.25	105.25	105.56	135.00	-29.44	Peak

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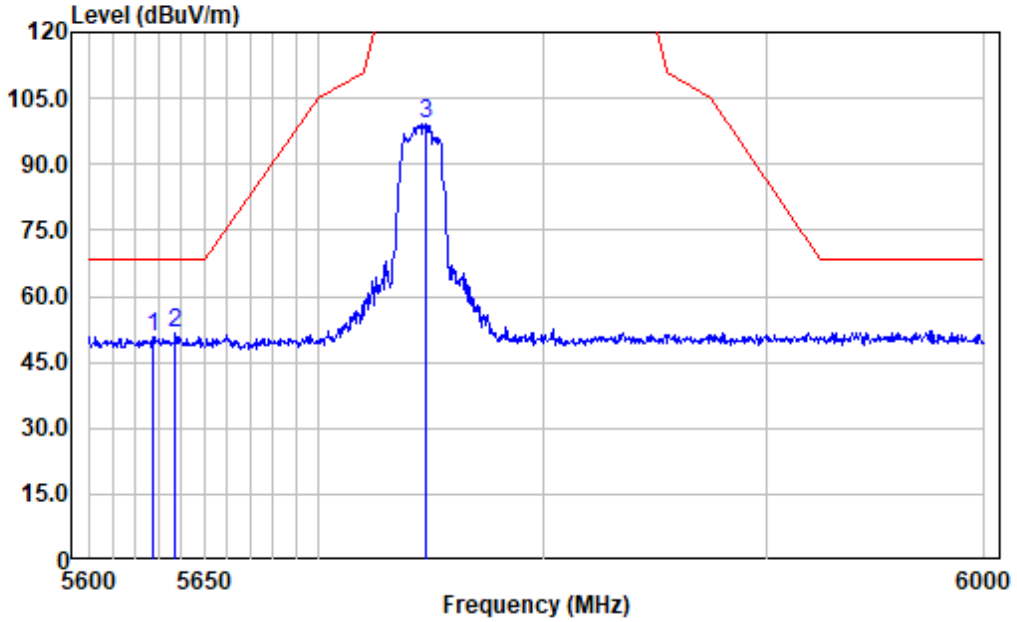
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5627.600	8.95	32.74	50.66	50.84	68.20	-17.36	Peak
2	5637.200	8.95	32.78	51.44	51.61	68.20	-16.59	Peak
3	5747.200	9.01	33.26	98.66	98.98	135.00	-36.02	Peak

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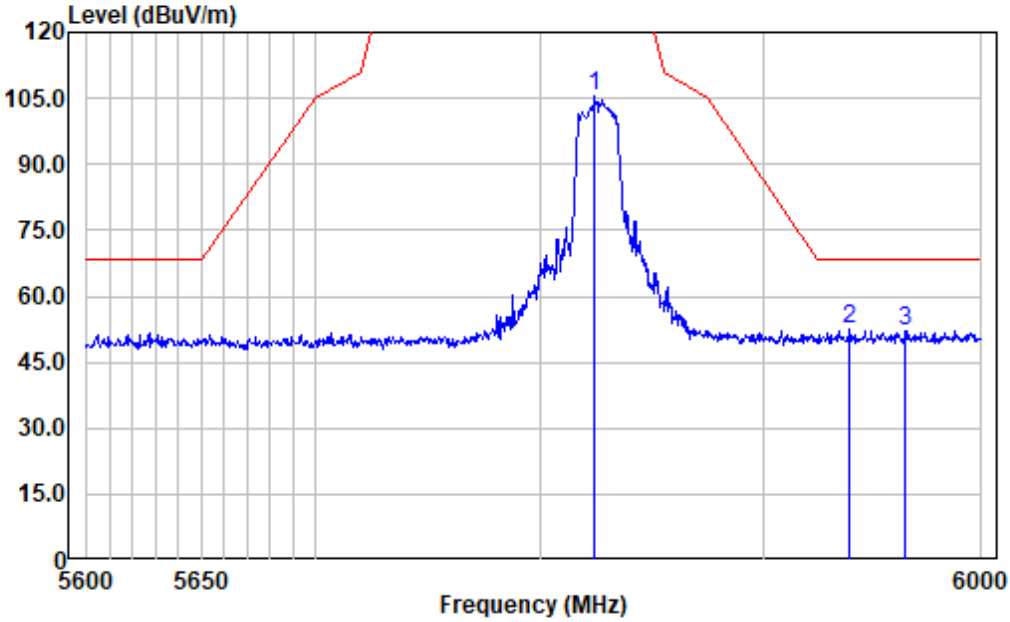
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5824.000	9.05	33.52	105.16	105.59	135.00	-29.41	Peak
2	5939.600	9.11	33.55	52.18	52.36	68.20	-15.84	Peak
3	5965.200	9.12	33.52	51.88	52.07	68.20	-16.13	Peak

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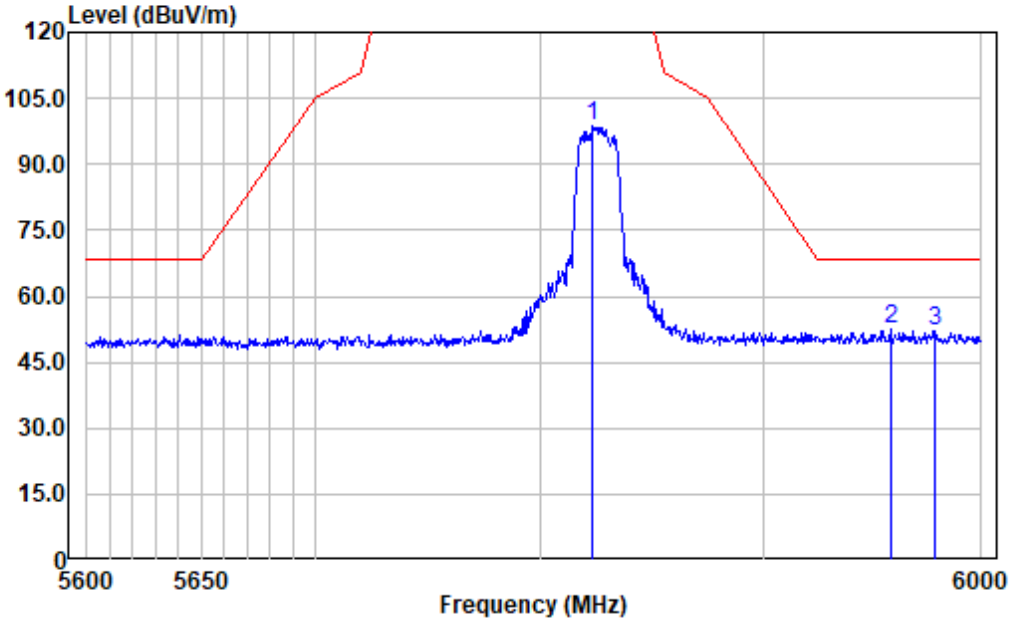
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5823.200	9.05	33.52	98.11	98.54	135.00	-36.46	Peak
2	5958.400	9.12	33.52	52.47	52.65	68.20	-15.55	Peak
3	5979.200	9.13	33.50	52.07	52.26	68.20	-15.94	Peak

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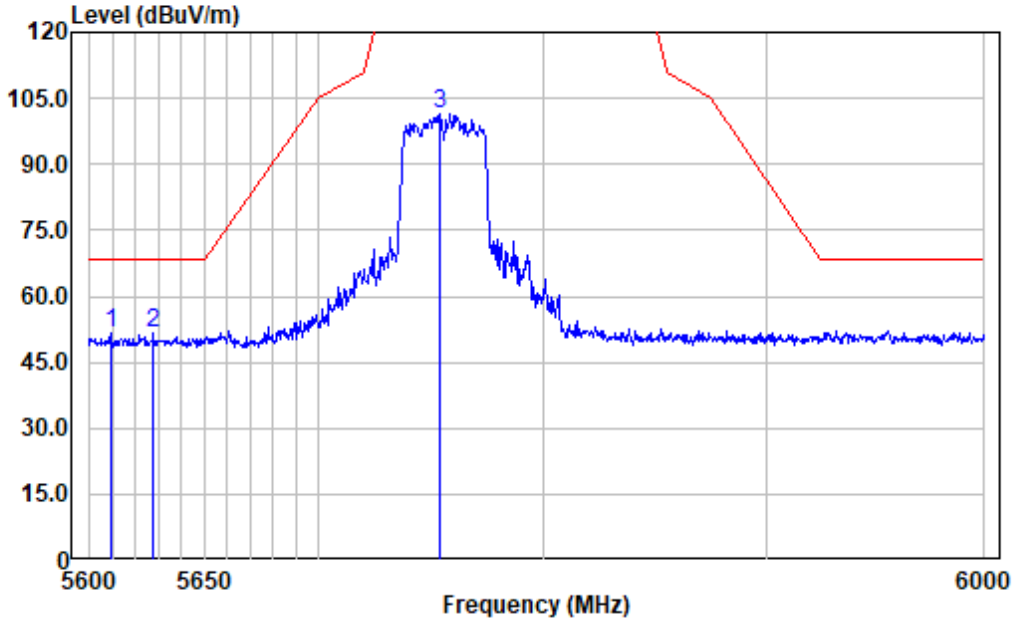
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5609.200	8.94	32.67	51.33	51.52	68.20	-16.68	Peak
2	5628.000	8.95	32.74	51.45	51.62	68.20	-16.58	Peak
3	5753.200	9.01	33.28	101.22	101.55	135.00	-33.45	Peak

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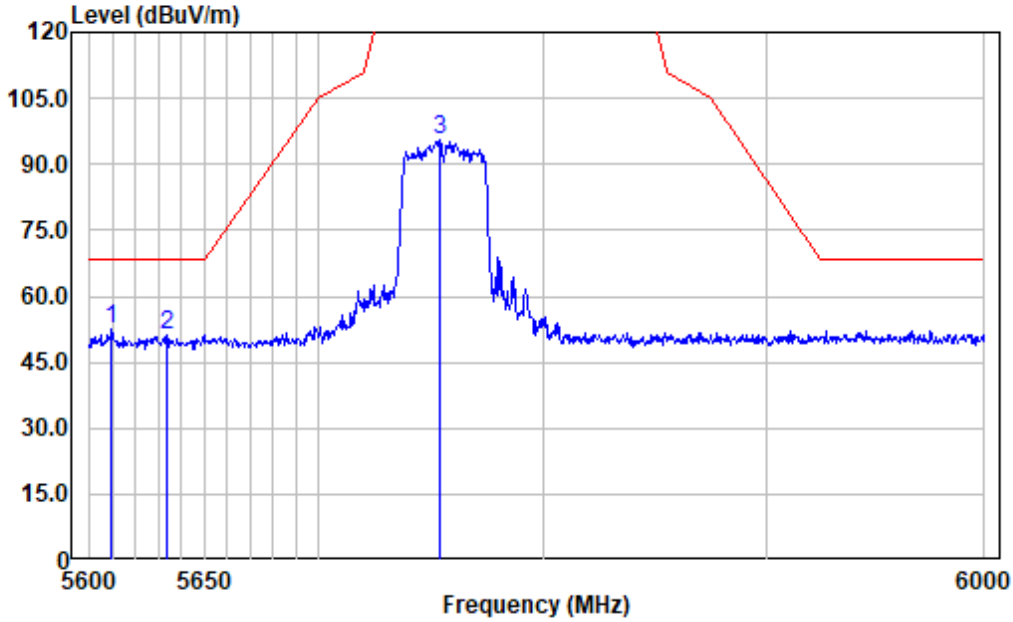
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5609.600	8.94	32.67	52.15	52.34	68.20	-15.86	Peak
2	5633.600	8.95	32.77	51.16	51.34	68.20	-16.86	Peak
3	5753.200	9.01	33.28	95.37	95.70	135.00	-39.30	Peak

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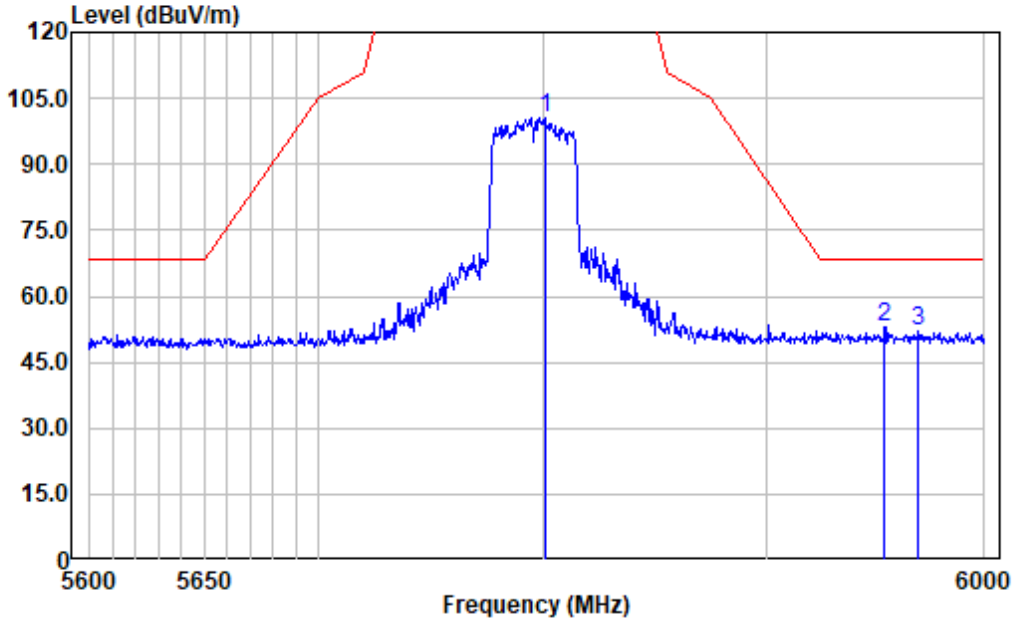
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5800.400	9.04	33.50	100.07	100.59	135.00	-34.41	Peak
2	5954.400	9.12	33.53	52.70	52.88	68.20	-15.32	Peak
3	5969.600	9.12	33.51	51.80	51.98	68.20	-16.22	Peak

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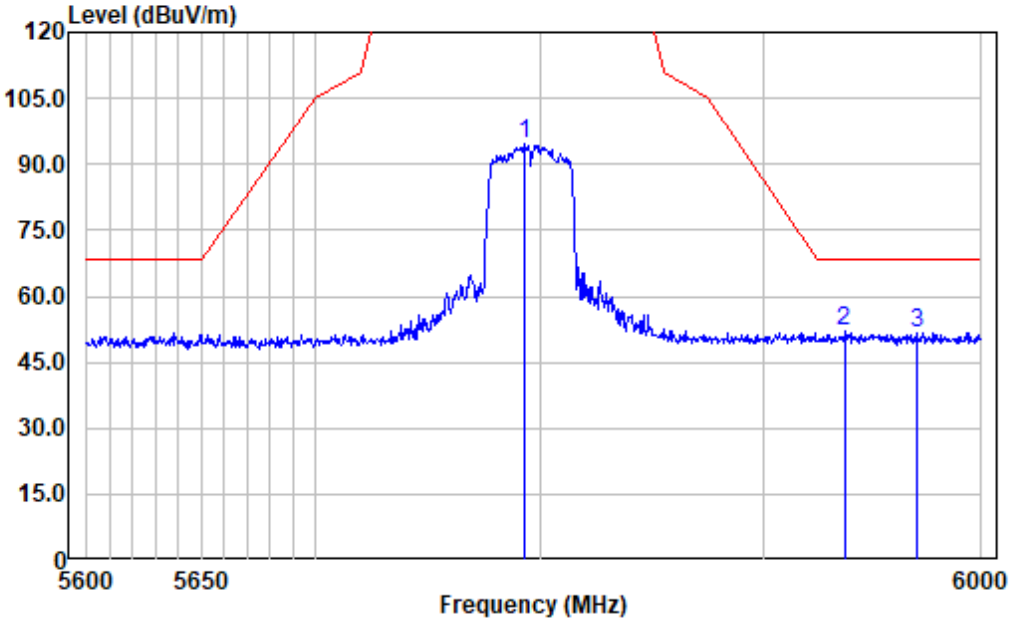
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5792.800	9.03	33.47	93.95	94.44	135.00	-40.56	Peak
2	5937.200	9.11	33.55	51.92	52.10	68.20	-16.10	Peak
3	5970.800	9.12	33.51	51.45	51.63	68.20	-16.57	Peak

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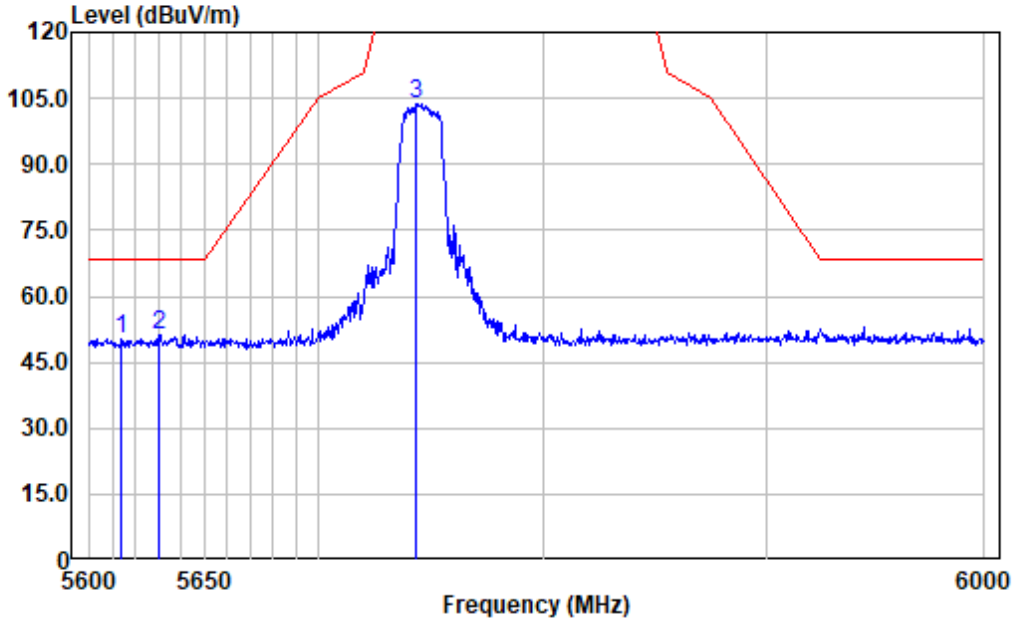
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5614.000	8.94	32.69	50.25	50.44	68.20	-17.76	Peak
2	5630.000	8.95	32.75	51.15	51.32	68.20	-16.88	Peak
3	5742.800	9.01	33.24	103.60	103.90	135.00	-31.10	Peak

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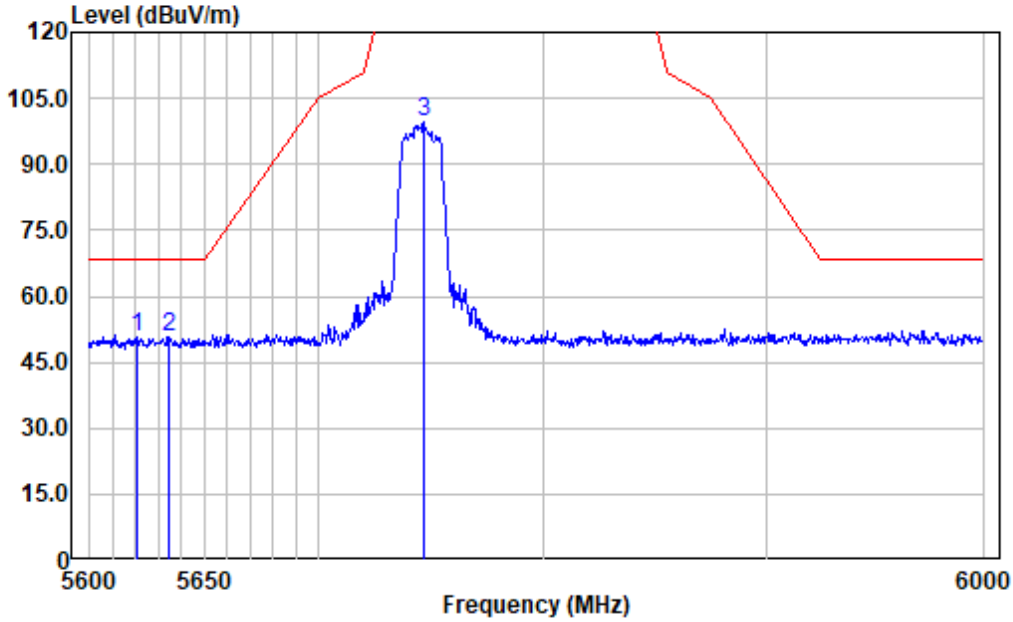
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5620.800	8.94	32.72	50.59	50.77	68.20	-17.43	Peak
2	5634.800	8.95	32.77	50.57	50.74	68.20	-17.46	Peak
3	5746.400	9.01	33.25	99.37	99.68	135.00	-35.32	Peak

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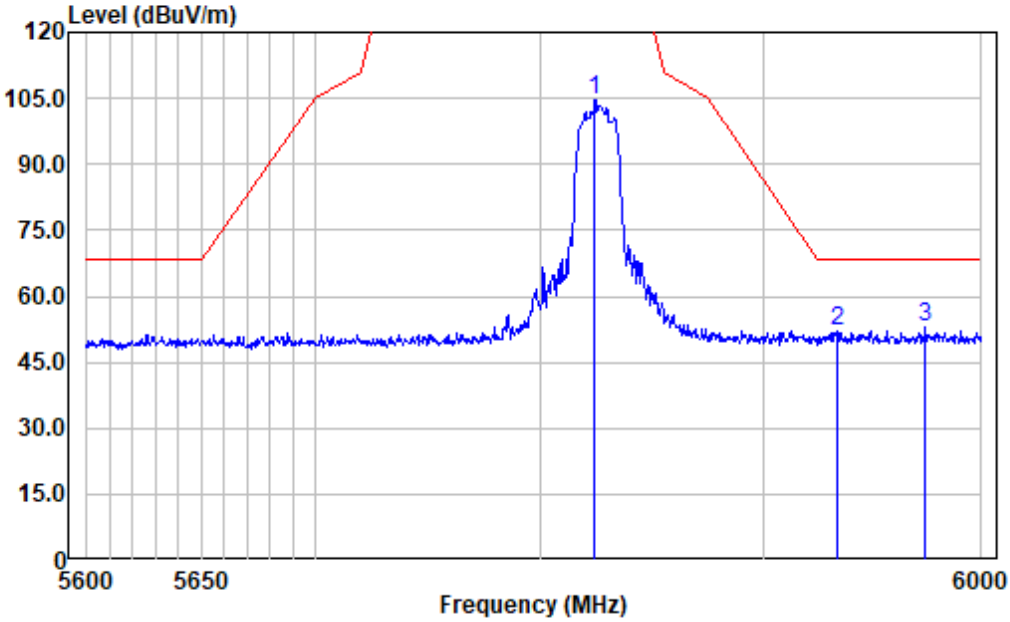
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5824.000	9.05	33.52	104.18	104.61	135.00	-30.39	Peak
2	5934.400	9.11	33.56	51.87	52.05	68.20	-16.15	Peak
3	5974.400	9.13	33.50	52.98	53.16	68.20	-15.04	Peak

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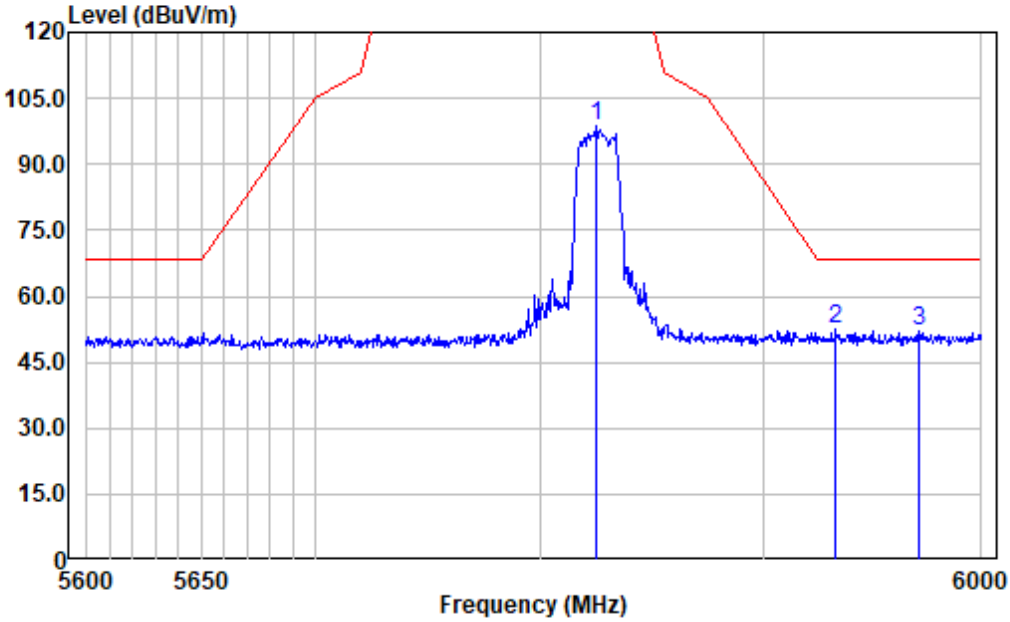
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5824.400	9.05	33.52	98.23	98.66	135.00	-36.34	Peak
2	5933.200	9.11	33.56	52.37	52.55	68.20	-15.65	Peak
3	5971.200	9.12	33.51	51.80	51.98	68.20	-16.22	Peak

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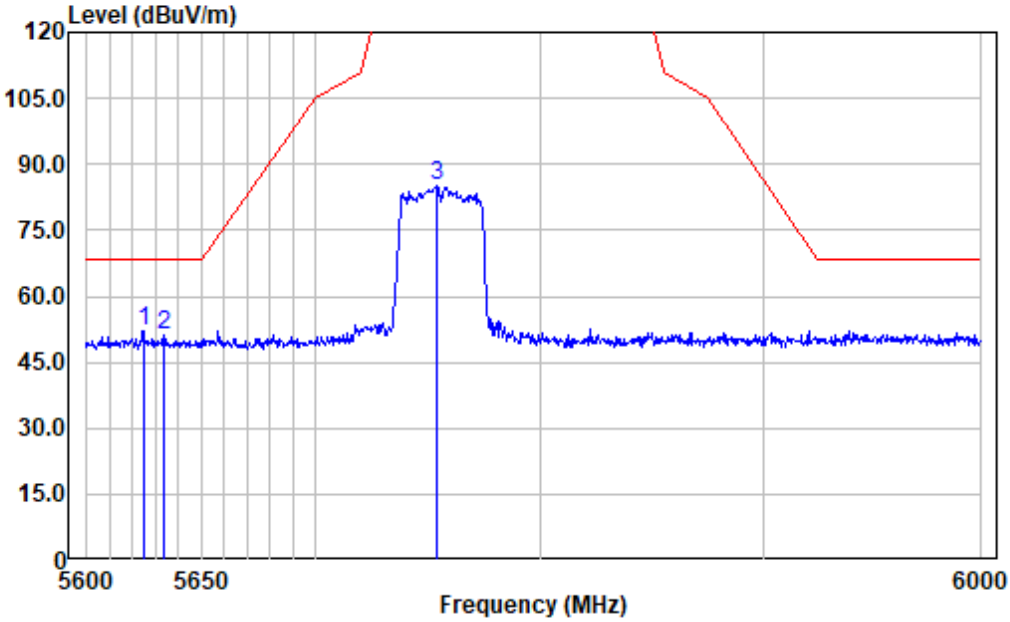
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5624.800	8.94	32.73	51.72	51.89	68.20	-16.31	Peak
2	5634.000	8.95	32.77	50.91	51.08	68.20	-17.12	Peak
3	5753.600	9.01	33.29	84.68	85.02	135.00	-49.98	Peak

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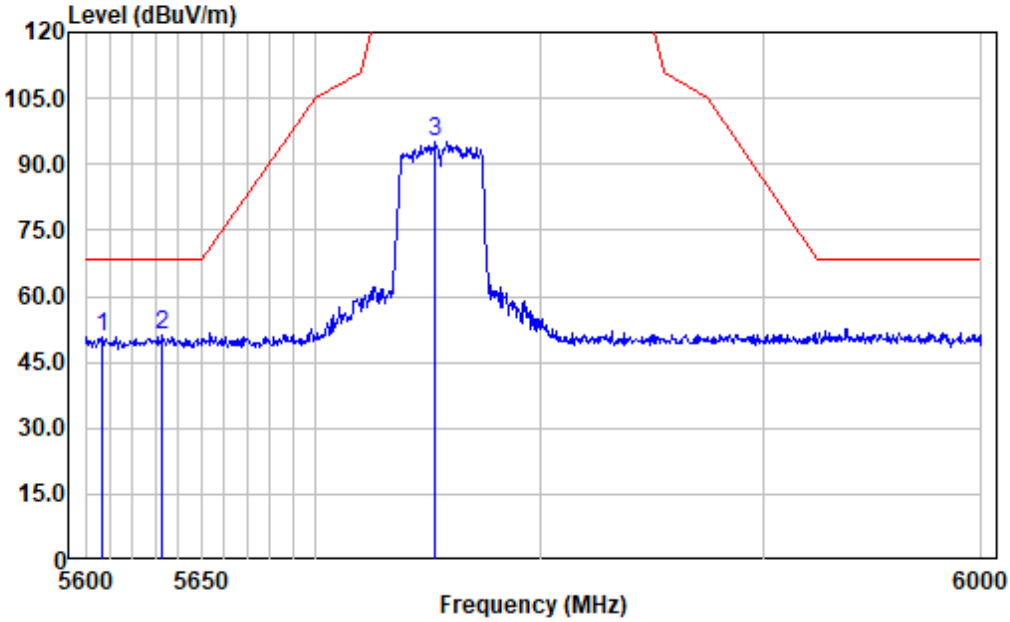
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5607.200	8.93	32.66	50.53	50.71	68.20	-17.49	Peak
2	5632.800	8.95	32.76	50.99	51.16	68.20	-17.04	Peak
3	5752.800	9.01	33.28	94.68	95.01	135.00	-39.99	Peak

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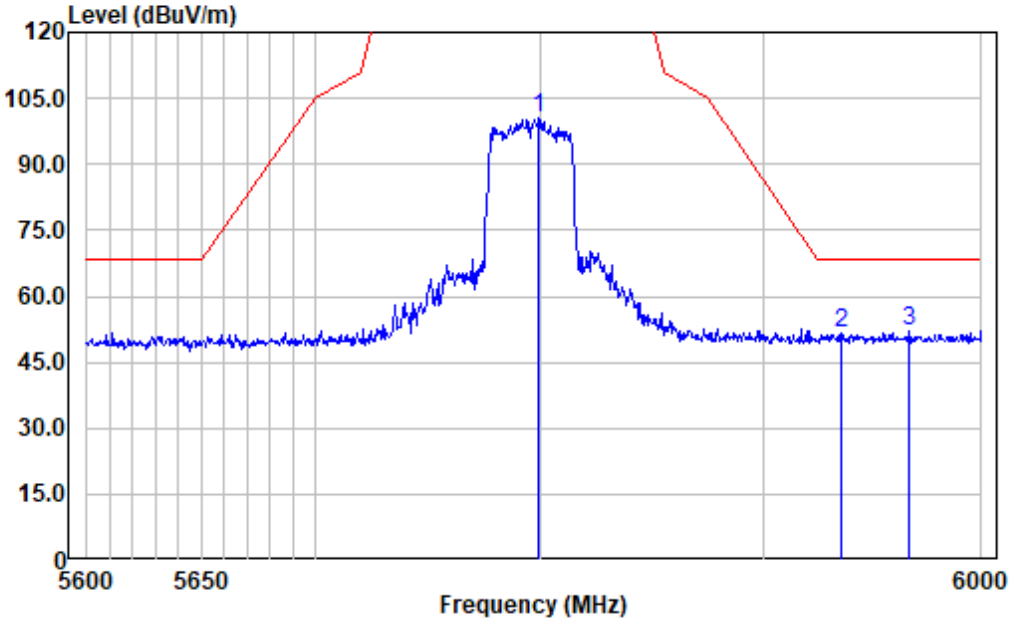
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5799.200	9.04	33.50	99.82	100.34	135.00	-34.66	Peak
2	5936.000	9.11	33.55	51.31	51.49	68.20	-16.71	Peak
3	5966.800	9.12	33.51	52.09	52.27	68.20	-15.93	Peak

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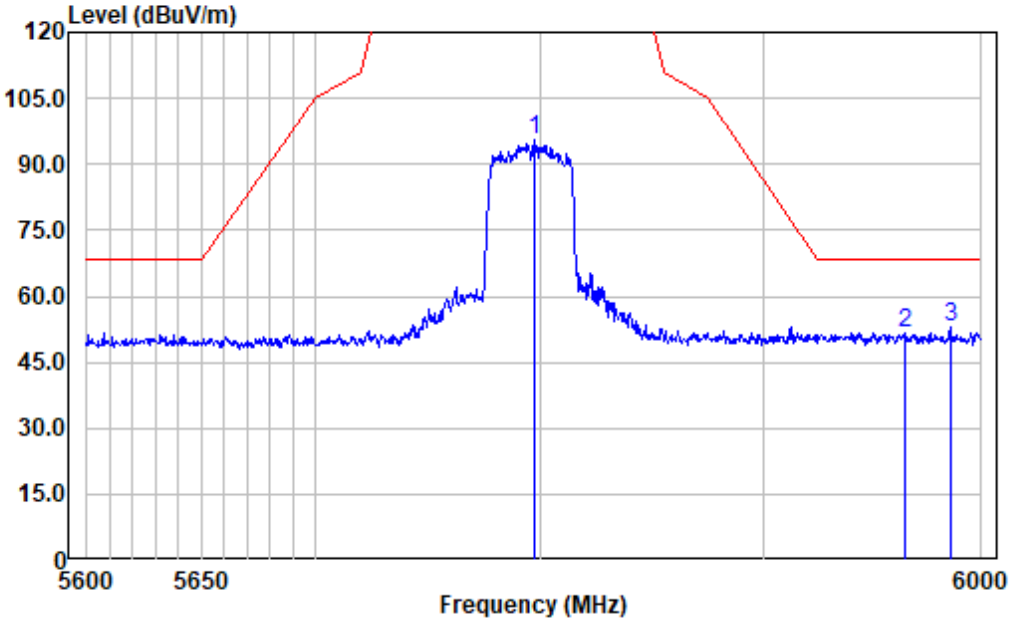
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5797.200	9.03	33.49	95.01	95.51	135.00	-39.49	Peak
2	5964.800	9.12	33.52	51.52	51.70	68.20	-16.50	Peak
3	5986.000	9.13	33.49	52.60	52.79	68.20	-15.41	Peak

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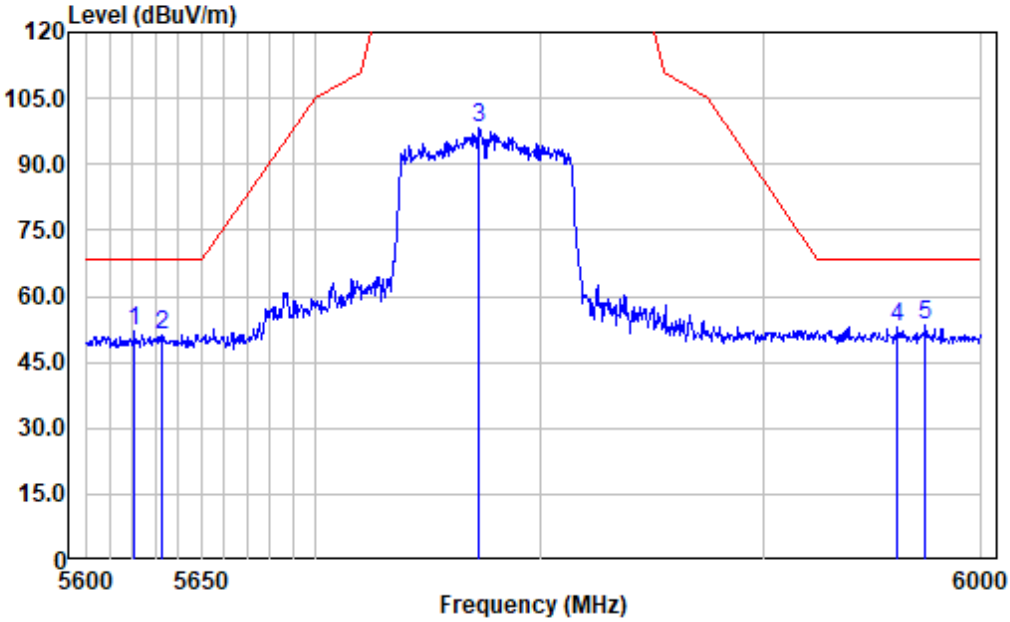
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5620.800	8.94	32.72	51.95	52.13	68.20	-16.07	Peak
2	5632.800	8.95	32.76	50.93	51.10	68.20	-17.10	Peak
3	5772.400	9.02	33.37	97.79	98.20	135.00	-36.80	Peak
4	5961.600	9.12	33.52	52.82	53.00	68.20	-15.20	Peak
5	5974.400	9.13	33.50	53.07	53.25	68.20	-14.95	Peak

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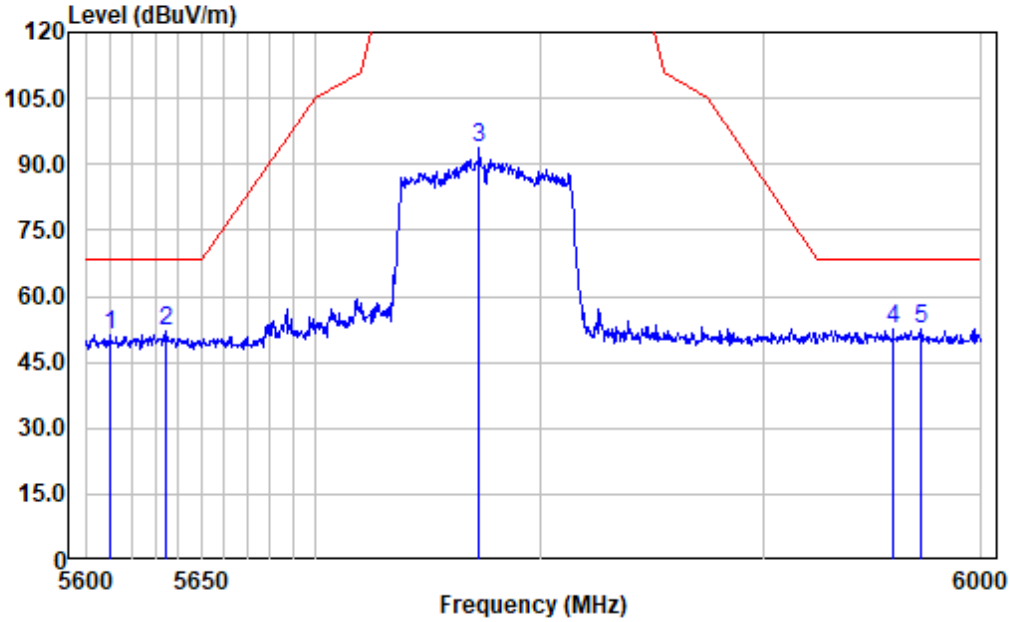
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site: Shielding Room

	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5610.000	8.94	32.67	51.05	51.24	68.20	-16.96	Peak
2	5634.400	8.95	32.77	51.95	52.12	68.20	-16.08	Peak
3	5772.400	9.02	33.37	93.43	93.84	135.00	-41.16	Peak
4	5959.600	9.12	33.52	52.20	52.38	68.20	-15.82	Peak
5	5972.800	9.13	33.51	52.49	52.68	68.20	-15.52	Peak

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7.10 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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 57.1 % RH Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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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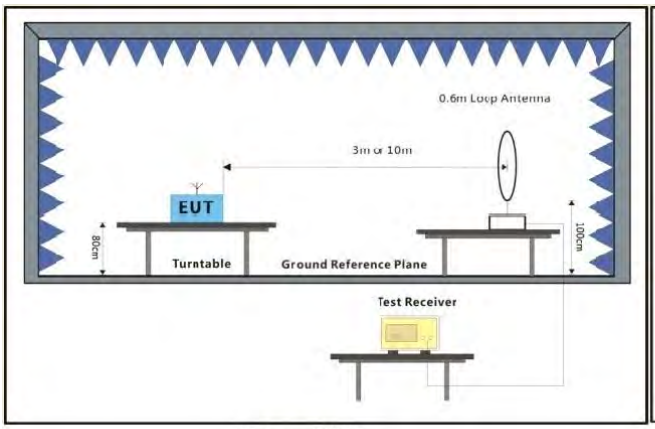
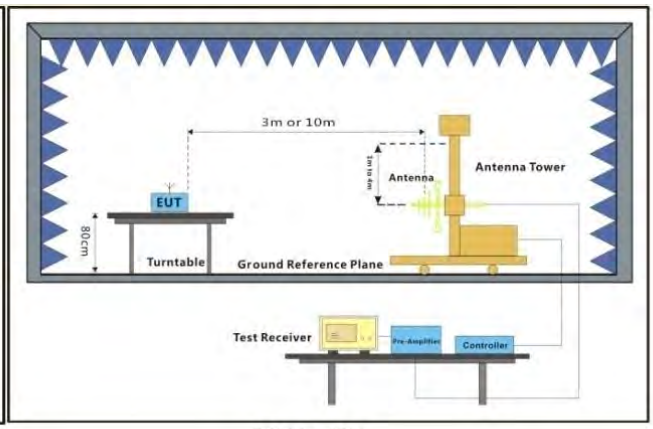
Final test	04	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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.

7.10.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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7.10.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

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

4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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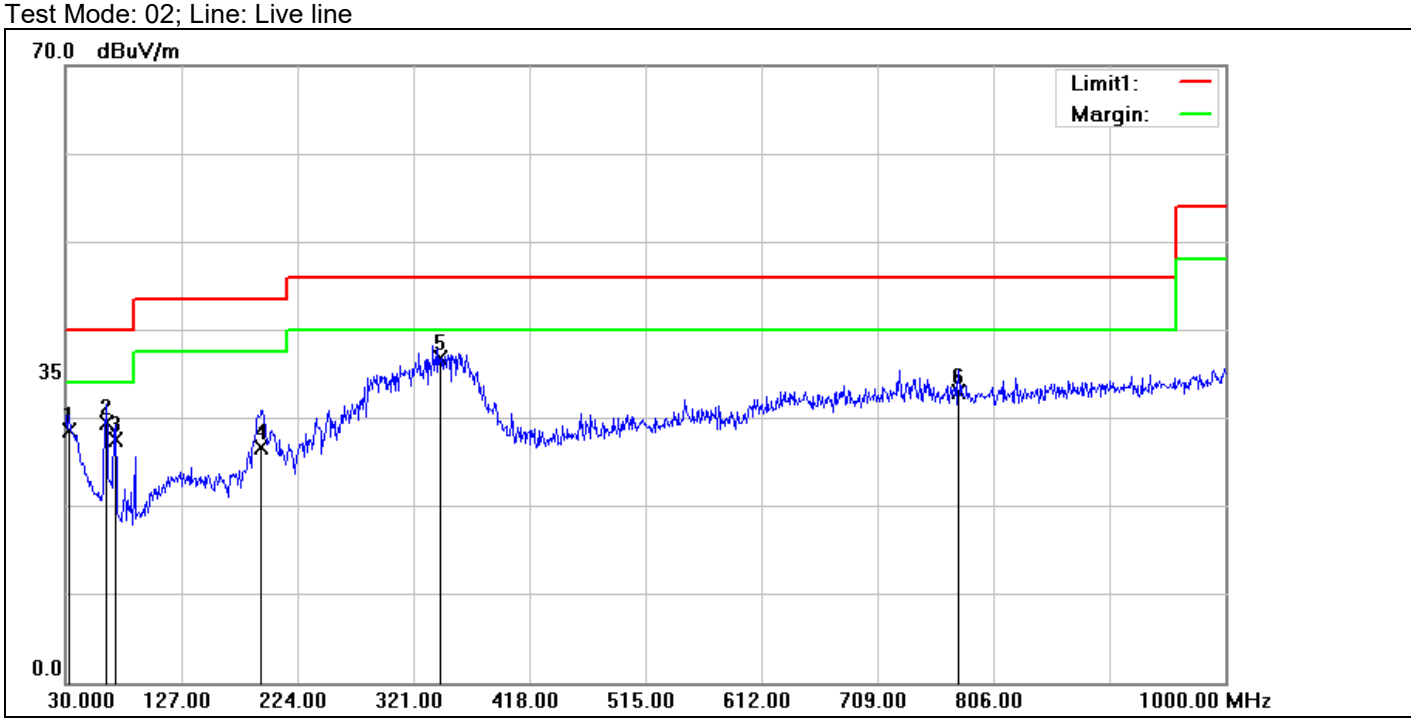
Test Mode: 02; Line: Live line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	32.9100	3.56	25.04	28.60	40.00	-11.40	100	86	QP
2	63.9500	14.77	14.78	29.55	40.00	-10.45	100	327	QP
3	71.7100	11.97	15.66	27.63	40.00	-12.37	100	360	QP
4	193.9300	10.28	16.40	26.68	43.50	-16.82	100	11	QP
5	344.1020	15.26	21.66	36.92	46.00	-9.08	100	360	QP
6	776.9000	30.75	2.30	33.05	46.00	-12.95	100	336	QP

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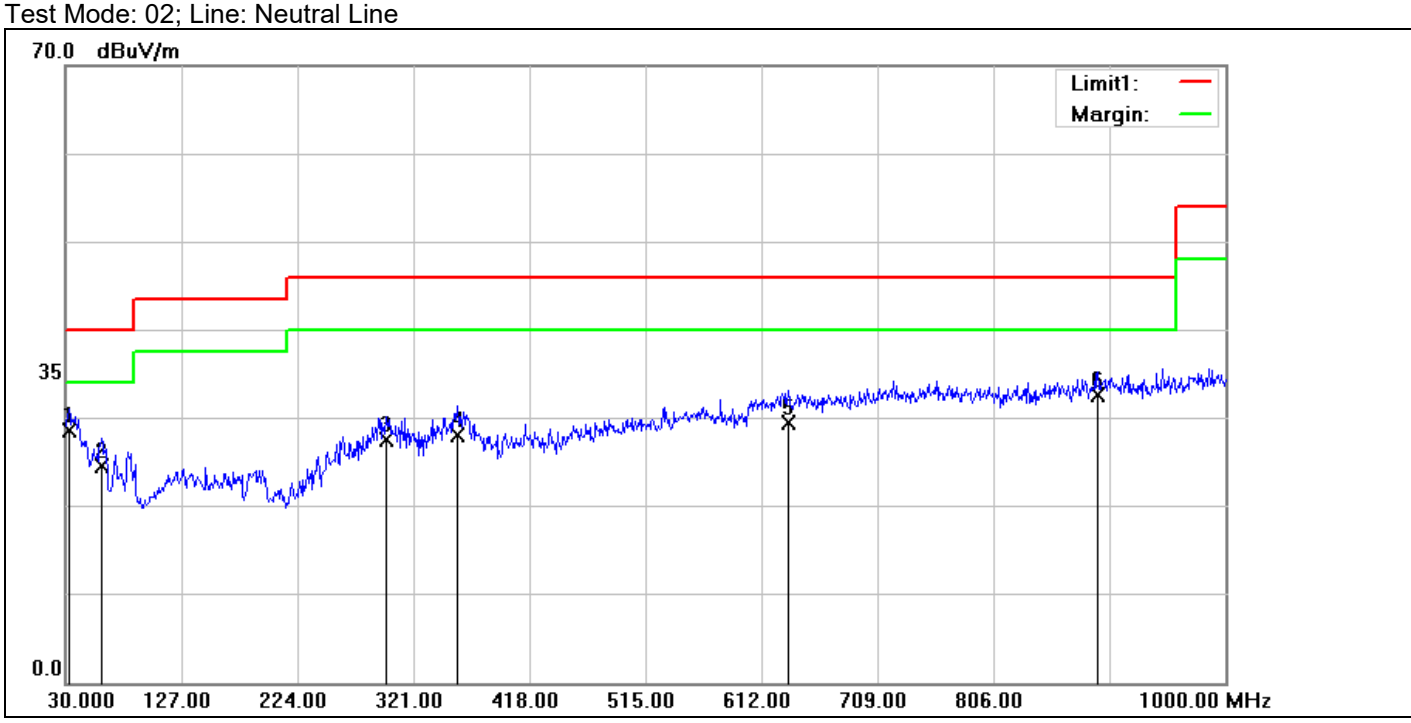
Test Mode: 02; Line: Neutral Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	32.9100	3.61	25.04	28.65	40.00	-11.35	100	176	QP
2	60.0700	9.68	14.92	24.60	40.00	-15.40	100	225	QP
3	297.7200	6.91	20.68	27.59	46.00	-18.41	100	317	QP
4	357.8600	6.00	22.14	28.14	46.00	-17.86	100	305	QP
5	634.3100	1.84	27.70	29.54	46.00	-16.46	100	175	QP
6	893.3000	30.27	2.41	32.68	46.00	-13.32	100	198	QP

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7.11 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 57.1 % RH Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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

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		of worst case is recorded in the report.

7.11.3 Measurement Procedure and Data

Please Refer to Appendix D for KSCR220700126405

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2207001264AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2207001264AT

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Appendix D for KSCR220700126404

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.064	2.085	98.99	0.04	0.04
		5200	2.064	2.085	98.99	0.04	0.00
		5240	2.065	2.086	98.99	0.04	0.04
		5260	2.065	2.085	99.04	0.04	0.03
		5300	2.065	2.086	98.99	0.04	0.03
		5320	2.065	2.085	99.04	0.04	0.03
		5500	2.065	2.086	98.99	0.04	0.03
		5580	2.065	2.085	99.04	0.04	0.04
		5700	2.065	2.086	98.99	0.04	0.04
		5745	2.065	2.085	99.04	0.04	0.00
		5785	2.065	2.085	99.04	0.04	0.00
		5825	2.066	2.087	98.99	0.04	0.07
802.11n (HT20)	SISO	5180	1.337	1.387	96.40	0.16	0.00
		5200	1.337	1.388	96.33	0.16	0.03
		5240	1.337	1.387	96.40	0.16	0.03
		5260	1.337	1.387	96.40	0.16	0.03
		5300	1.337	1.388	96.33	0.16	0.00
		5320	1.337	1.387	96.40	0.16	0.06
		5500	1.337	1.387	96.40	0.16	0.07
		5580	1.337	1.388	96.33	0.16	0.03
		5700	1.337	1.388	96.33	0.16	0.03
		5745	1.336	1.388	96.25	0.17	0.03
		5785	1.337	1.387	96.40	0.16	0.07
		5825	1.337	1.388	96.33	0.16	0.06
802.11n (HT40)	SISO	5190	0.944	1.045	90.33	0.44	0.04
		5230	0.943	1.045	90.24	0.45	0.04
		5270	0.944	1.046	90.25	0.45	0.04

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		5310	0.944	1.045	90.33	0.44	0.04
		5510	0.947	1.046	90.54	0.43	0.04
		5550	0.947	1.045	90.62	0.43	0.04
		5670	0.944	1.046	90.25	0.45	0.03
		5755	0.944	1.045	90.33	0.44	0.04
		5795	0.947	1.045	90.62	0.43	0.04
802.11ac (VHT20)	SISO	5180	1.933	2.034	95.03	0.22	0.07
		5200	1.933	2.034	95.03	0.22	0.03
		5240	1.933	2.033	95.08	0.22	0.00
		5260	1.933	2.033	95.08	0.22	0.04
		5300	1.932	2.033	95.03	0.22	0.03
		5320	1.932	2.033	95.03	0.22	0.03
		5500	1.934	2.035	95.04	0.22	0.03
		5580	1.933	2.034	95.03	0.22	0.03
		5700	1.933	2.033	95.08	0.22	0.04
		5745	1.934	2.034	95.08	0.22	0.00
		5785	1.932	2.033	95.03	0.22	0.07
		5825	1.932	2.033	95.03	0.22	0.04
802.11ac (VHT40)	SISO	5190	0.952	1.054	90.32	0.44	0.03
		5230	0.952	1.053	90.41	0.44	0.03
		5270	0.952	1.054	90.32	0.44	0.03
		5310	0.952	1.054	90.32	0.44	0.03
		5510	0.952	1.054	90.32	0.44	0.03
		5550	0.955	1.054	90.61	0.43	0.03
		5670	0.952	1.054	90.32	0.44	0.03
		5755	0.951	1.053	90.31	0.44	0.03
		5795	0.955	1.053	90.69	0.42	0.03
802.11ac (VHT80)	SISO	5210	0.461	0.561	82.17	0.85	0.04
		5290	0.466	0.561	83.07	0.81	0.07
		5530	0.462	0.562	82.21	0.85	0.06
		5610	0.461	0.561	82.17	0.85	0.04
		5775	0.461	0.562	82.03	0.86	0.06

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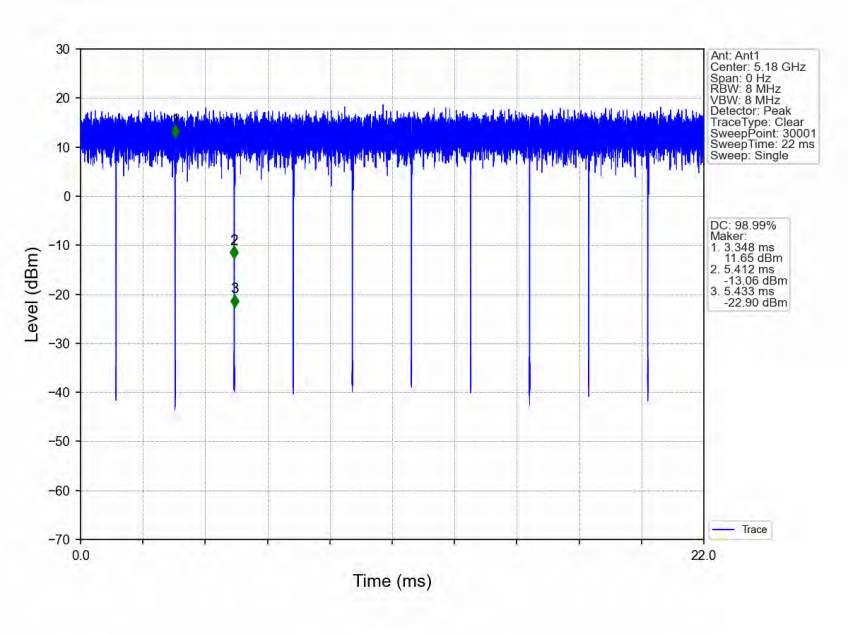
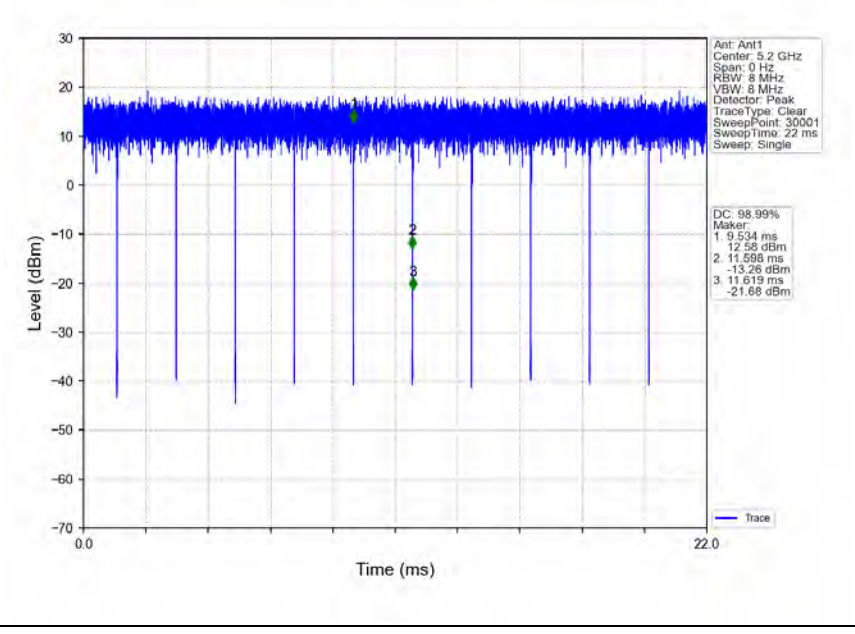
1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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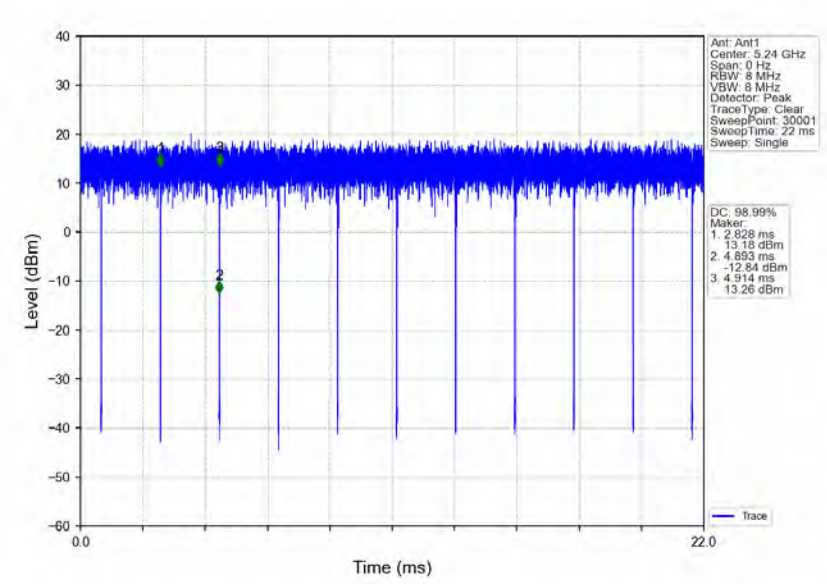
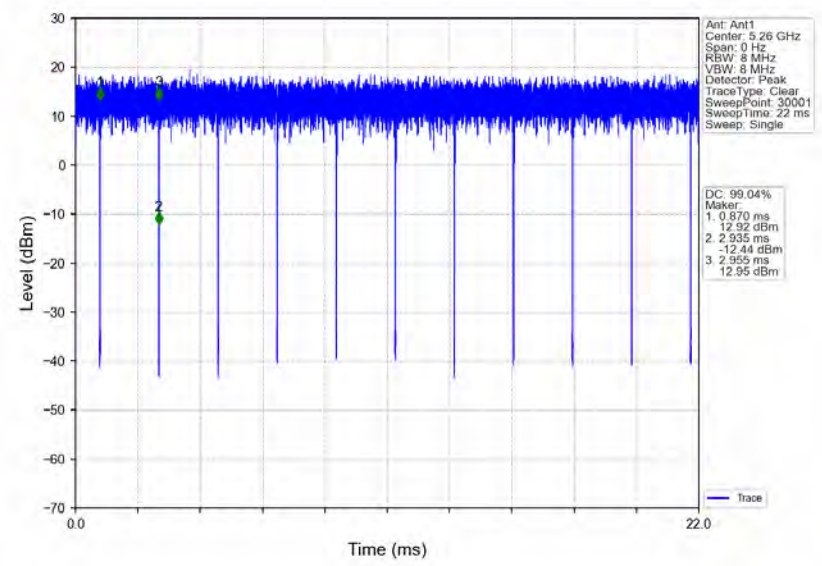
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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