

TEST REPORT

Application No.: SHCR2208001661AT
FCC ID: 2ADTD-K1T672MW
Applicant: Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Applicant: No.555 Qianmo Road,Binjiang District Hangzhou 310052,China
Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Manufacturer: No.555 Qianmo Road,Binjiang District Hangzhou 310052,China
Factory: 1.Hangzhou Hikvision Technology Co., Ltd.
 2.Hangzhou Hikvision Electronics Co., Ltd.
 3.Chongqing Hikvision Technology Co., Ltd.
 4.WuHan Hikvision Technology Co. Ltd
Address of Factory: 1.No.700,Dongliu Road, Binjiang District, Hangzhou Ctiy,Zhejiang, 310052, China/
 2.No.299,Qiushi Road,Tonglu Economic Development Zone,Tonglu County, Hangzhou,Zhejiang,311500,China.
 3.NO.118.Haikang Road,Area C,Jianqiao Industrial Park,Dadukou District,Chongqing,401325,China.
 4.No. 12, Wenhua Road, Zhifang Street, Jiangxia District, Wuhan City
Equipment Under Test (EUT):
EUT Name: Face Recognition Terminal/Payment Terminal
Model No.: DS-K1T672MW,DS-K1T672M,DS-K1T672DW,DS-K1T672D,DS-K1T672MWUHK,DS-K1T672MWCKV,DS-K1T672MWUVS,DS-K1T672MWKVO,DS-K1T672MWHUN,DS-K1T672MUHK,DS-K1T672MCKV,DS-K1T672MUVS,DS-K1T672MKVO,DS-K1T672MHUN,DS-K5672MW-Z,DS-K5672M-Z,DS-K5672M-ZUHK,DS-K5672M-ZCKV,DS-K5672M-ZUVS,DS-K5672M-ZKVO,DS-K5672M-ZHUN,DS-K1T672DWX-T,DS-K1T672DX-T,DS-K1T672DWX-TUHK,DS-K1T672DWX-TCKV,DS-K1T672DWX-TUVS,DS-K1T672DWX-TKVO,DS-K1T672DWX-THUN,DS-K1T672DX-TUHK,DS-K1T672DX-TCKV,DS-K1T672DX-TUVS,DS-K1T672DX-TKVO,DS-K1T672DX-THUN,DS-K6300X-T,DS-K6300X-MFG,DS-K6300X-T-MFG,DS-K6300X-Z-MFG,DS-K6300X-TUHK,DS-K6300X-TCKV,DS-K6300X-TUVS,DS-K6300X-TKVO,DS-K6300X-THUN
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: HIKVISION
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-08-10
Date of Test: 2022-08-22 to 2022-08-30
Date of Issue: 2022-09-05

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

Parlan Zhan

Parlan Zhan
Laboratory Manager



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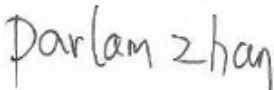
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Revision Record			
Version	Description	Date	Remark
00	Supplementary test RSE & Power	2022-09-05	Based on SHEM191201994601

Authorized for issue by:			
			
		<u>Micheal Niu /Project Engineer</u>	
			
		<u>Parlam Zhan /Reviewer</u>	



2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

There are series models mentioned in this report and they are the Identical in electrical and electronic characters. Only the model DS-K6300X-T-MFG was tested since their differences were the model number, trade name, color and appearance.

Comparing with the original project, the differences are as below:

1. Added new model numbers: DS-K1T672DWX-T, DS-K1T672DX-T, DS-K1T672DWX-TUHK, DS-K1T672DWX-TCKV, DS-K1T672DWX-TUVS, DS-K1T672DWX-TKVO,DS-K1T672DWX-THUN, DS-K1T672DX-TUHK, DS-K1T672DX-TCKV, DS-K1T672DX-TUVS, DS-K1T672DX-TKVO,DS-K1T672DX-THUN,DS-K6300X-T,DS-K6300X-MFG,DS-K6300X-T-MFG,DS-K6300X-Z-MFG,DS-K6300X-TUHK,DS-K6300X-TCKV,DS-K6300X-TUVS,DS-K6300X-TKVO,DS-K6300X-THUN
2. Added PMN: Payment Terminal.
3. Added the base.
- 4.The antenna gain for 2.4G Wi-Fi is reduced.

Except for above changes, other electrical properties remain unchanged. Based on the original report SHEM191201994601, we evaluated the Conducted Peak Output Power, Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Test voltage: AC120V/60Hz Power supply: DC 12V 2A
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-1.7dBi (Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645



4.3 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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4.4 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).

4.5 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.

4.6 Deviation from Standards

None

4.7 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	08/22/2022	08/21/2023
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
15	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	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ EMC-v 3A1	/	N/A	N/A



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6 Radio Spectrum Matter Test Results

6.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

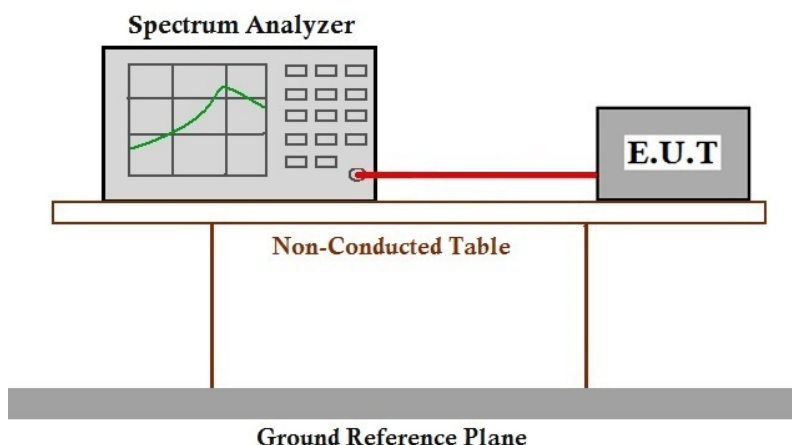
Humidity: 38.2 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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6.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

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

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.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 58.3 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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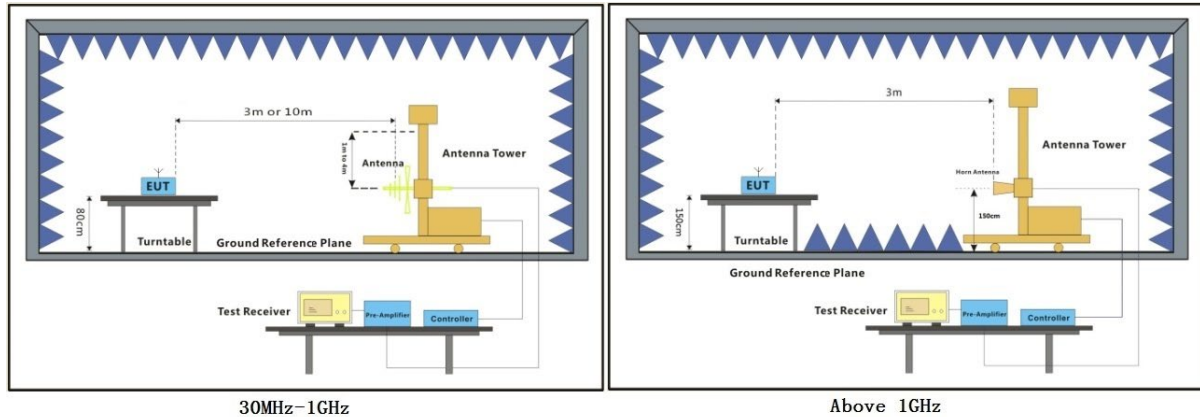
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6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

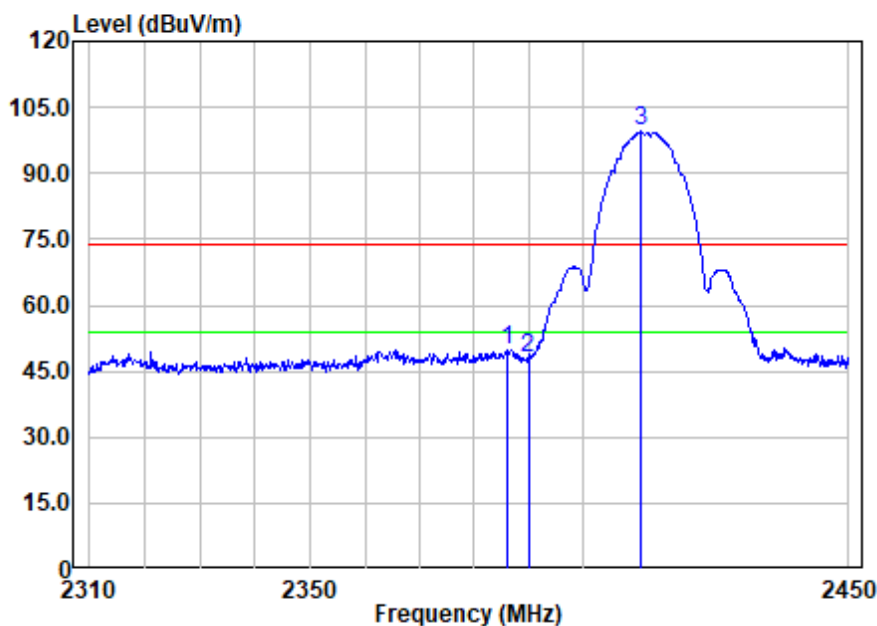
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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.



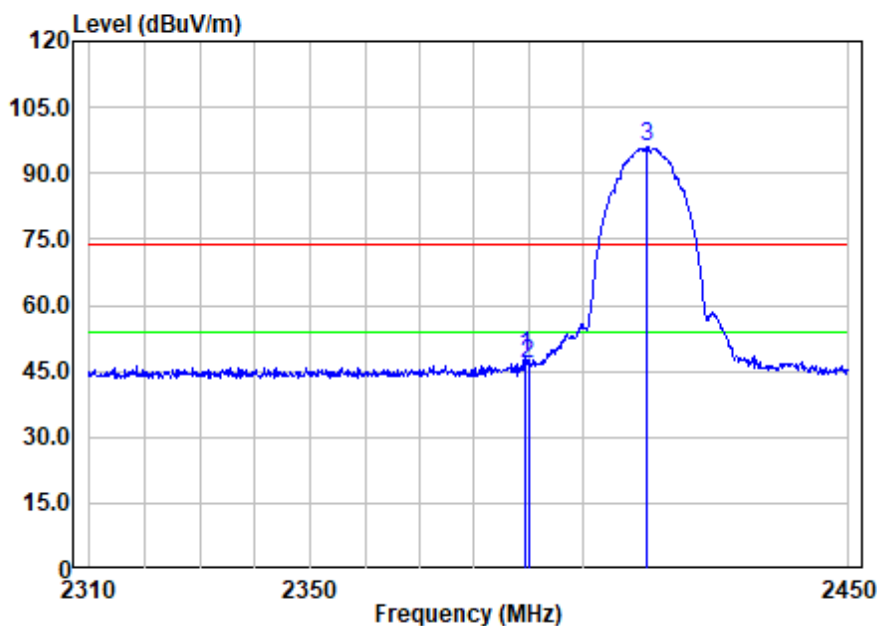
Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.020	0.00	42.92	60.35	49.84	74.00	-24.16	Peak
2	2390.000	0.00	42.92	58.31	47.81	74.00	-26.19	Peak
3	2410.940	0.00	42.93	109.83	99.40	74.00	25.40	Peak



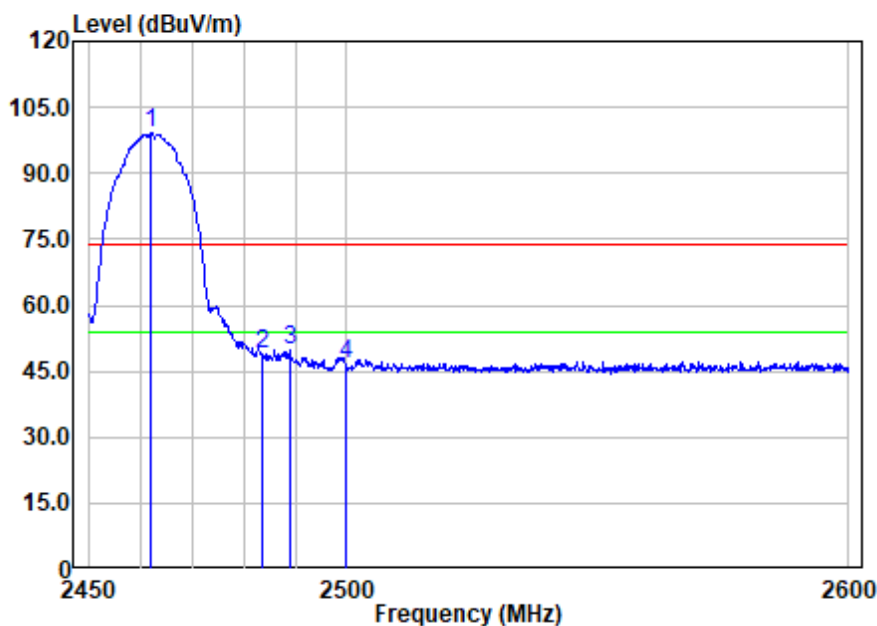
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		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.380	0.00	42.92	59.09	48.59	74.00	-25.41	Peak
2	2390.000	0.00	42.92	56.94	46.44	74.00	-27.56	Peak
3	2412.060	0.00	42.93	106.51	96.09	74.00	22.09	Peak



Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.150	0.00	42.94	109.40	99.22	74.00	25.22	Peak
2	2483.500	0.00	42.94	58.92	48.85	74.00	-25.15	Peak
3	2488.850	0.00	42.94	59.76	49.71	74.00	-24.29	Peak
4	2500.000	0.00	42.94	56.82	46.83	74.00	-27.17	Peak



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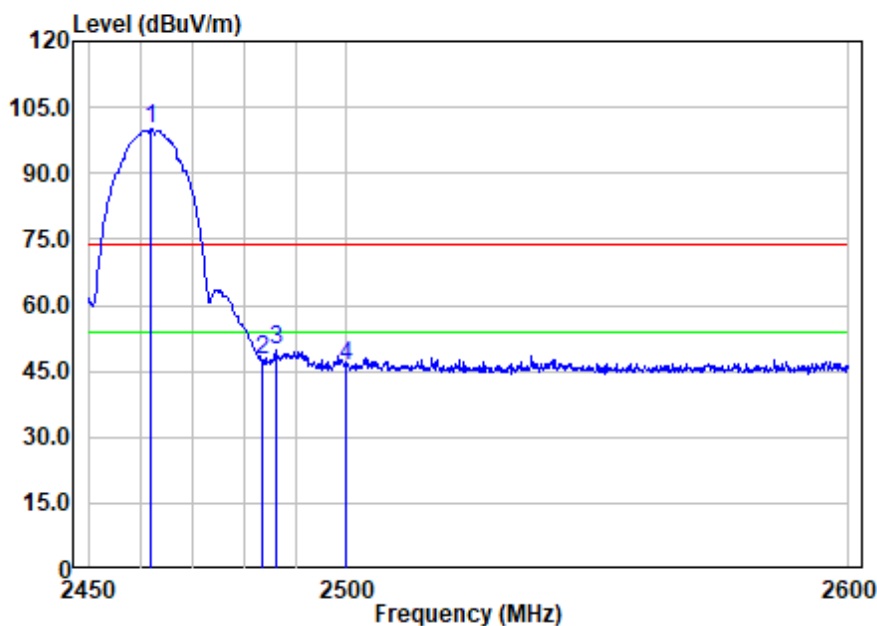
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.150	0.00	42.94	110.33	100.15	74.00	26.15	Peak
2	2483.500	0.00	42.94	57.55	47.48	74.00	-26.52	Peak
3	2486.300	0.00	42.94	60.04	49.98	74.00	-24.02	Peak
4	2500.000	0.00	42.94	56.10	46.11	74.00	-27.89	Peak



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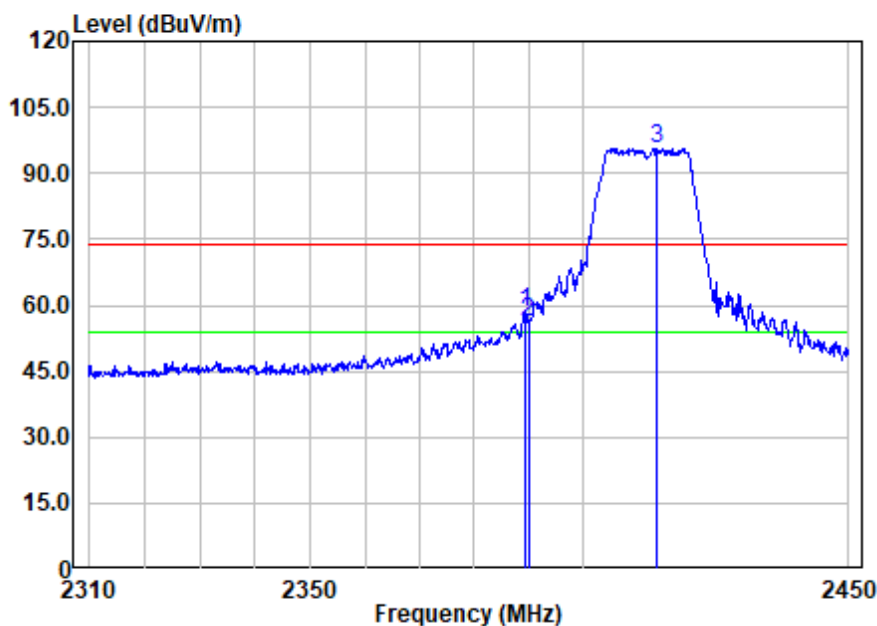
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		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.380	0.00	42.92	69.10	58.60	74.00	-15.40	Peak
2	2390.000	0.00	42.92	66.60	56.10	74.00	-17.90	Peak
3	2414.020	0.00	42.93	106.12	95.71	74.00	21.71	Peak



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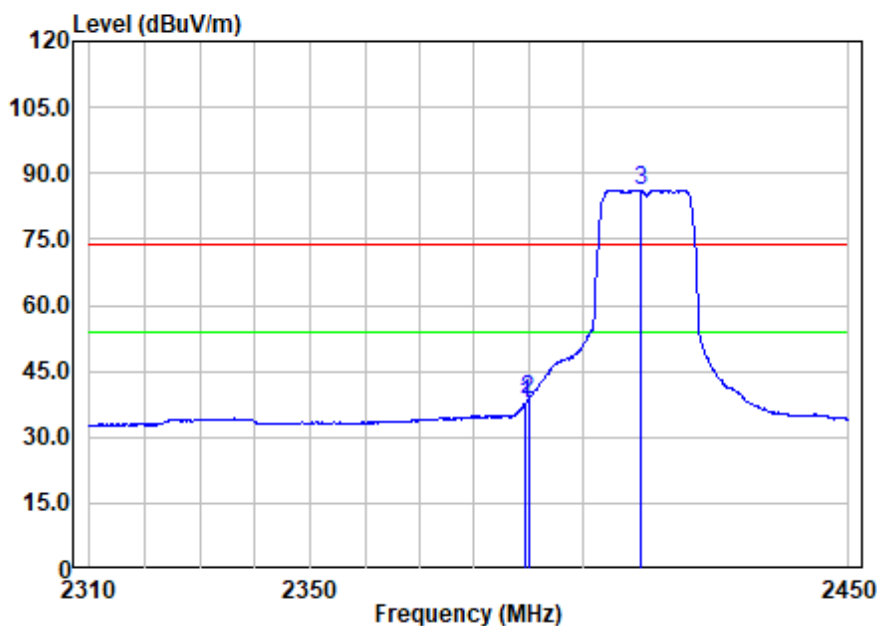
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		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.380	0.00	42.92	47.97	37.47	54.00	-16.53	Average
2	2390.000	0.00	42.92	49.11	38.61	54.00	-15.39	Average
3	2410.940	0.00	42.93	96.68	86.25	54.00	32.25	Average



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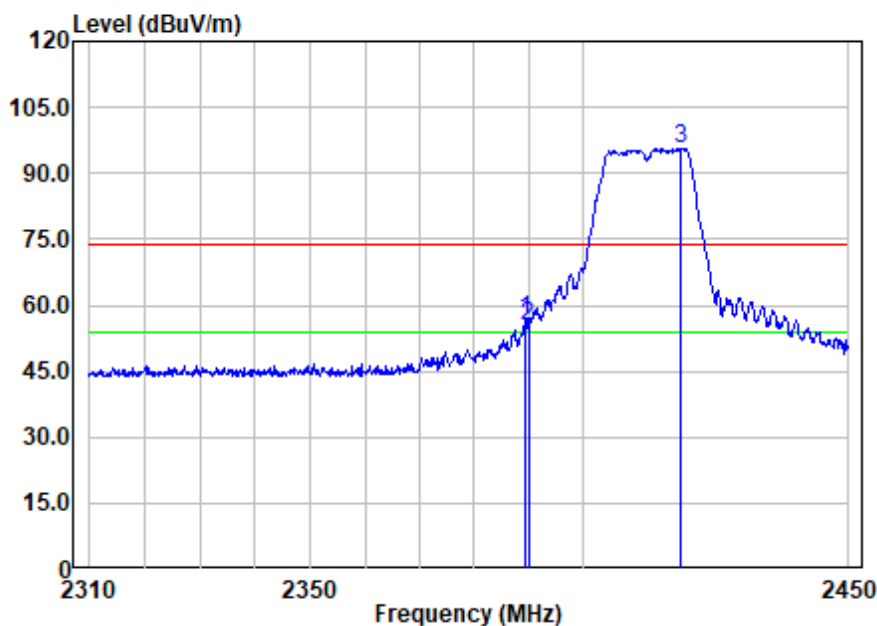
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.520	0.00	42.92	66.97	56.47	74.00	-17.53	Peak
2	2390.000	0.00	42.92	65.56	55.06	74.00	-18.94	Peak
3	2418.500	0.00	42.93	106.13	95.74	74.00	21.74	Peak



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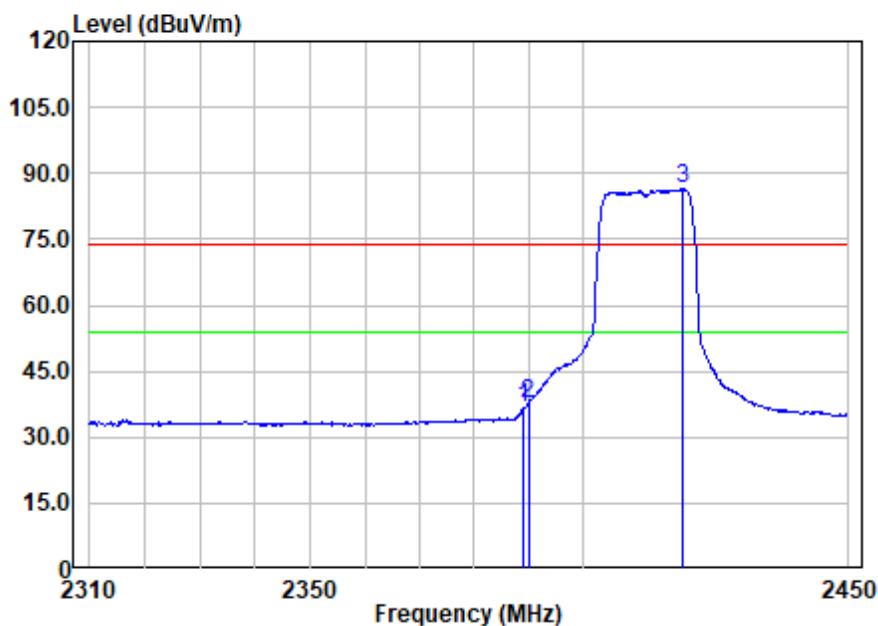
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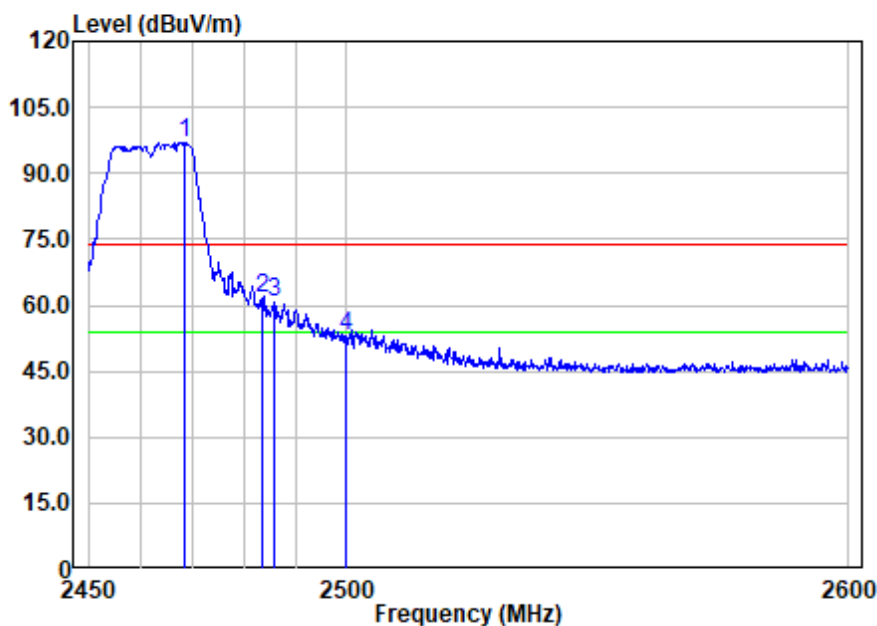
Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.240	0.00	42.92	47.06	36.56	54.00	-17.44	Average
2	2390.000	0.00	42.92	48.06	37.56	54.00	-16.44	Average
3	2418.640	0.00	42.93	96.82	86.43	54.00	32.43	Average



Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2468.600	0.00	42.94	107.15	97.00	74.00	23.00	Peak
2	2483.500	0.00	42.94	71.76	61.69	74.00	-12.31	Peak
3	2485.700	0.00	42.94	70.87	60.81	74.00	-13.19	Peak
4	2500.000	0.00	42.94	62.76	52.77	74.00	-21.23	Peak



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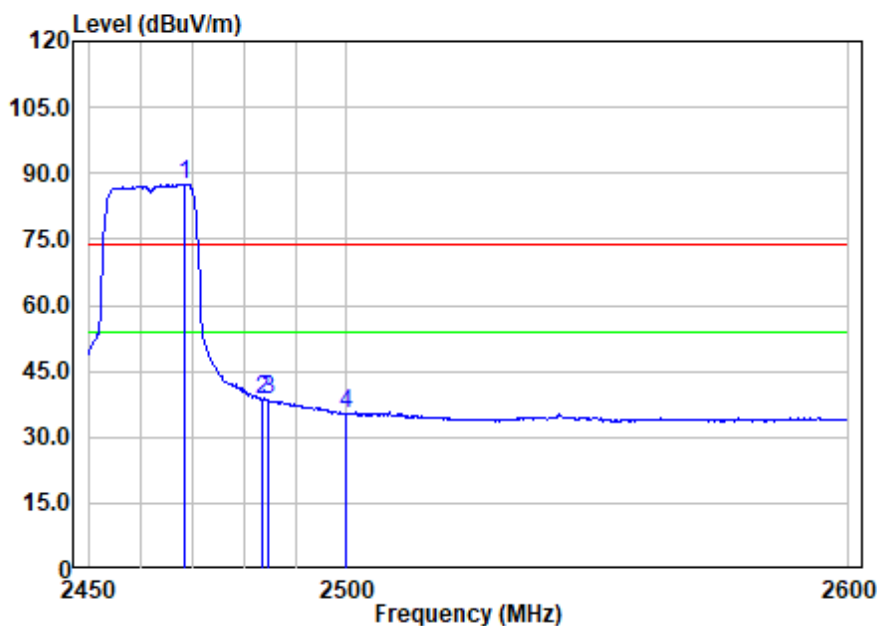
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2468.450	0.00	42.94	97.75	87.60	54.00	33.60	Average
2	2483.500	0.00	42.94	48.68	38.61	54.00	-15.39	Average
3	2484.650	0.00	42.94	48.55	38.48	54.00	-15.52	Average
4	2500.000	0.00	42.94	45.33	35.34	54.00	-18.66	Average



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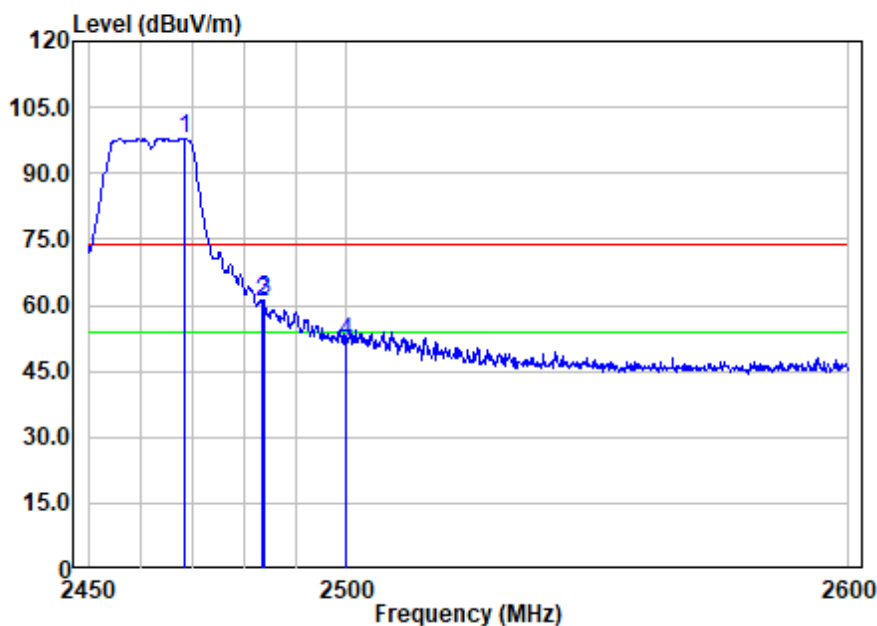
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2468.450	0.00	42.94	108.18	98.03	74.00	24.03	Peak
2	2483.500	0.00	42.94	70.85	60.78	74.00	-13.22	Peak
3	2483.900	0.00	42.94	71.13	61.06	74.00	-12.94	Peak
4	2500.000	0.00	42.94	61.79	51.80	74.00	-22.20	Peak



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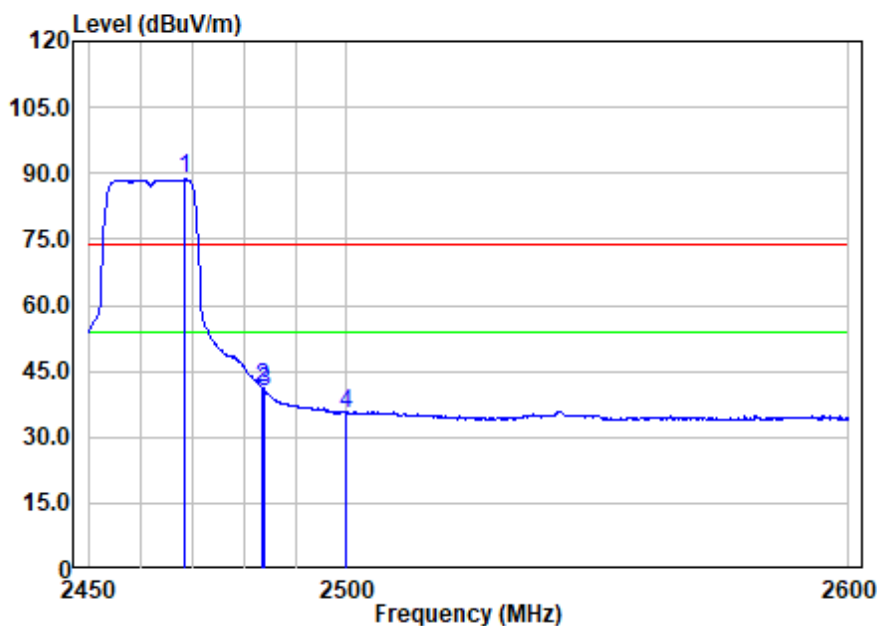
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2468.600	0.00	42.94	98.88	88.73	54.00	34.73	Average
2	2483.500	0.00	42.94	51.48	41.41	54.00	-12.59	Average
3	2484.050	0.00	42.94	50.57	40.50	54.00	-13.50	Average
4	2500.000	0.00	42.94	45.51	35.52	54.00	-18.48	Average



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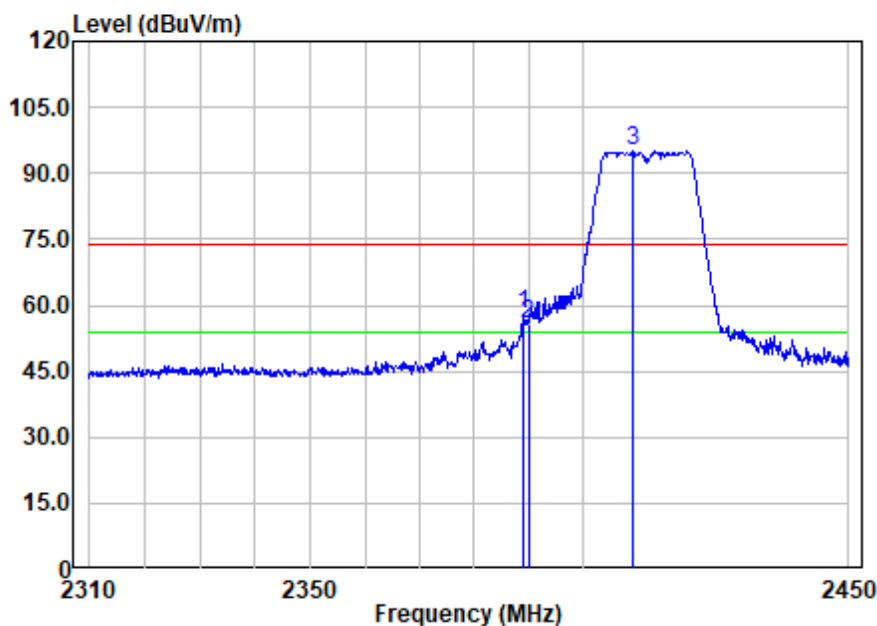
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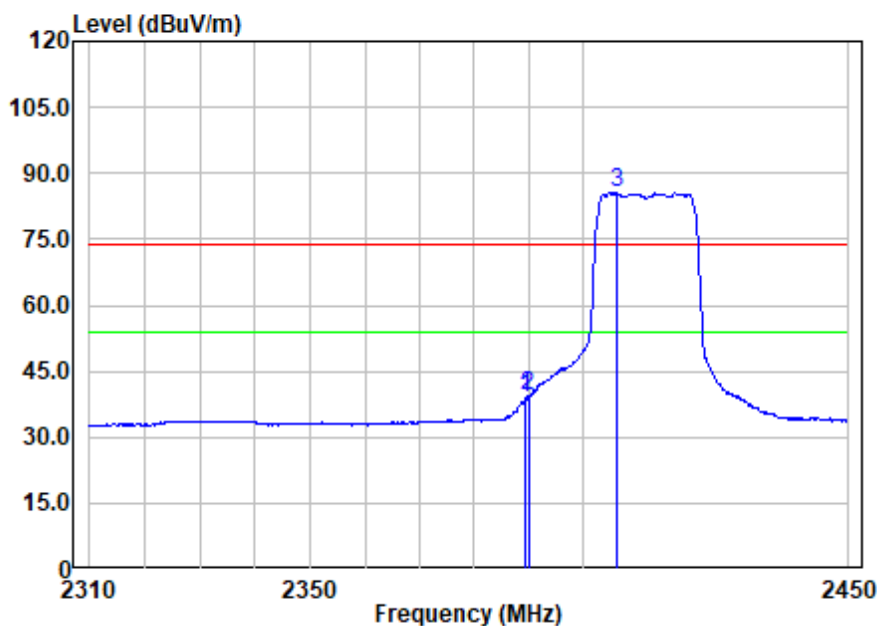
Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



	Freq	Aux Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.240	0.00	42.92	68.35	57.85	74.00	-16.15	Peak
2	2390.000	0.00	42.92	66.32	55.82	74.00	-18.18	Peak
3	2409.260	0.00	42.93	105.46	95.02	74.00	21.02	Peak



Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.520	0.00	42.92	49.31	38.81	54.00	-15.19	Average
2	2390.000	0.00	42.92	49.79	39.29	54.00	-14.71	Average
3	2406.460	0.00	42.93	96.03	85.58	54.00	31.58	Average



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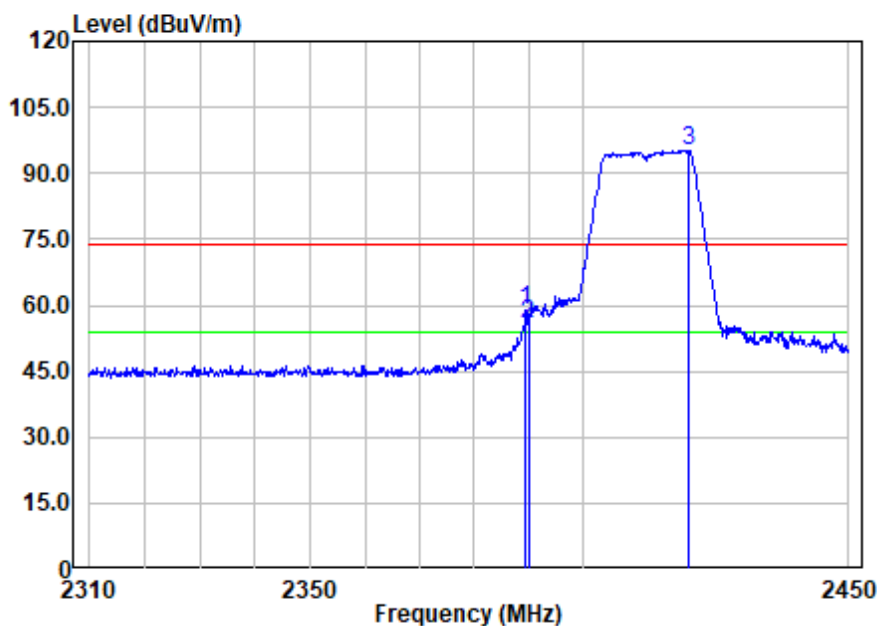
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.520	0.00	42.92	69.23	58.73	74.00	-15.27	Peak
2	2390.000	0.00	42.92	66.39	55.89	74.00	-18.11	Peak
3	2419.760	0.00	42.93	105.60	95.22	74.00	21.22	Peak



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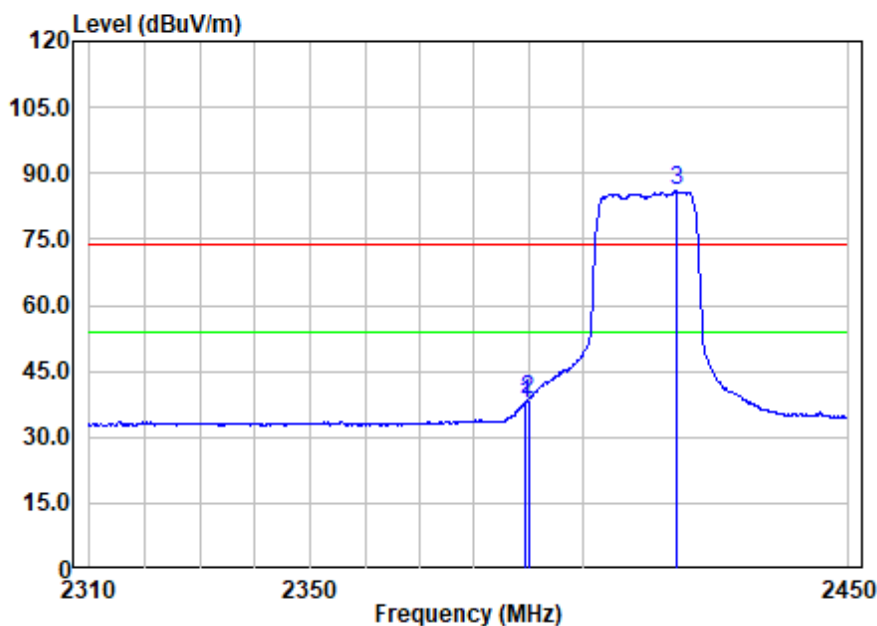
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.380	0.00	42.92	48.18	37.68	54.00	-16.32	Average
2	2390.000	0.00	42.92	48.96	38.46	54.00	-15.54	Average
3	2417.520	0.00	42.93	96.25	85.85	54.00	31.85	Average



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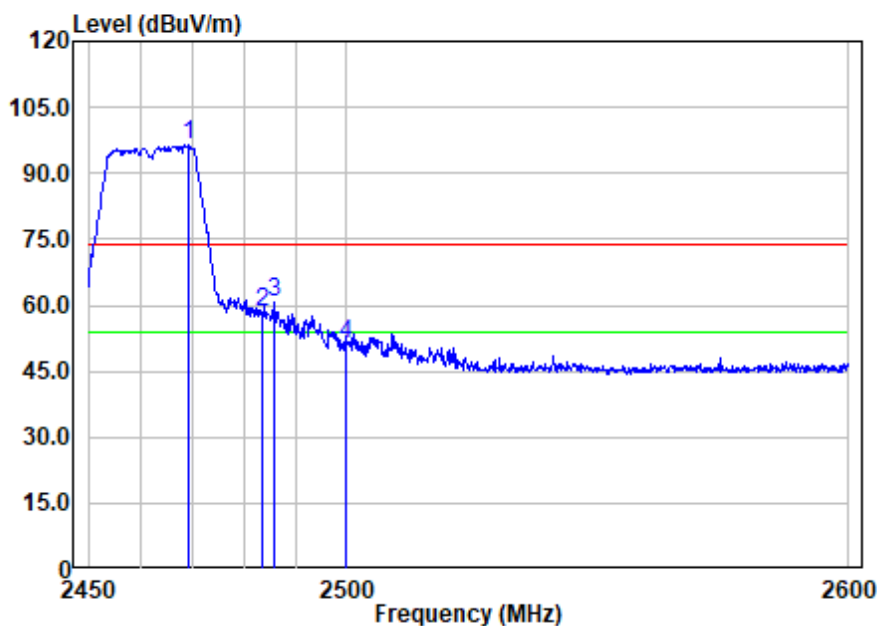
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2469.200	0.00	42.94	106.52	96.38	74.00	22.38	Peak
2	2483.500	0.00	42.94	68.44	58.37	74.00	-15.63	Peak
3	2485.700	0.00	42.94	70.80	60.74	74.00	-13.26	Peak
4	2500.000	0.00	42.94	60.97	50.98	74.00	-23.02	Peak



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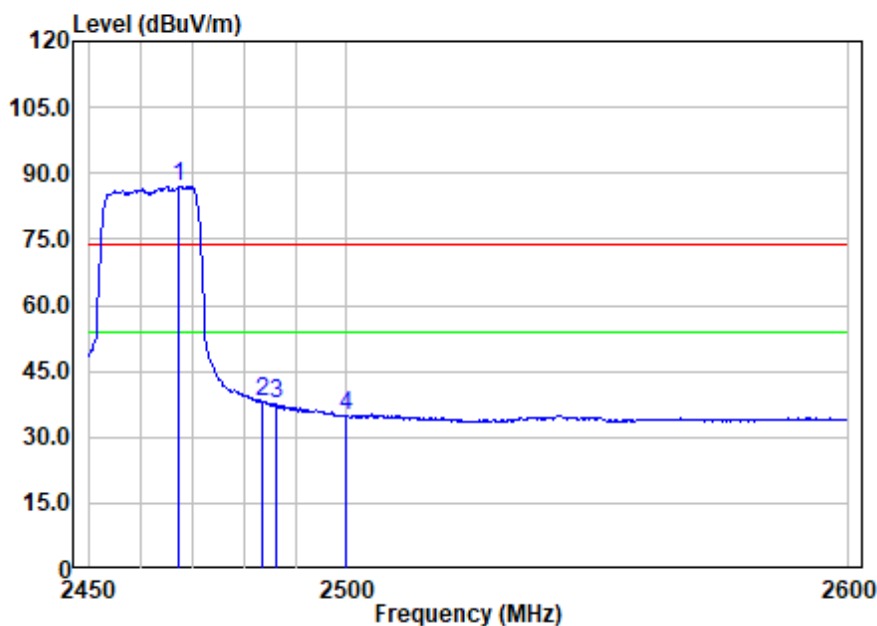
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2467.550	0.00	42.94	97.27	87.11	54.00	33.11	Average
2	2483.500	0.00	42.94	48.05	37.98	54.00	-16.02	Average
3	2486.150	0.00	42.94	47.78	37.72	54.00	-16.28	Average
4	2500.000	0.00	42.94	45.06	35.07	54.00	-18.93	Average



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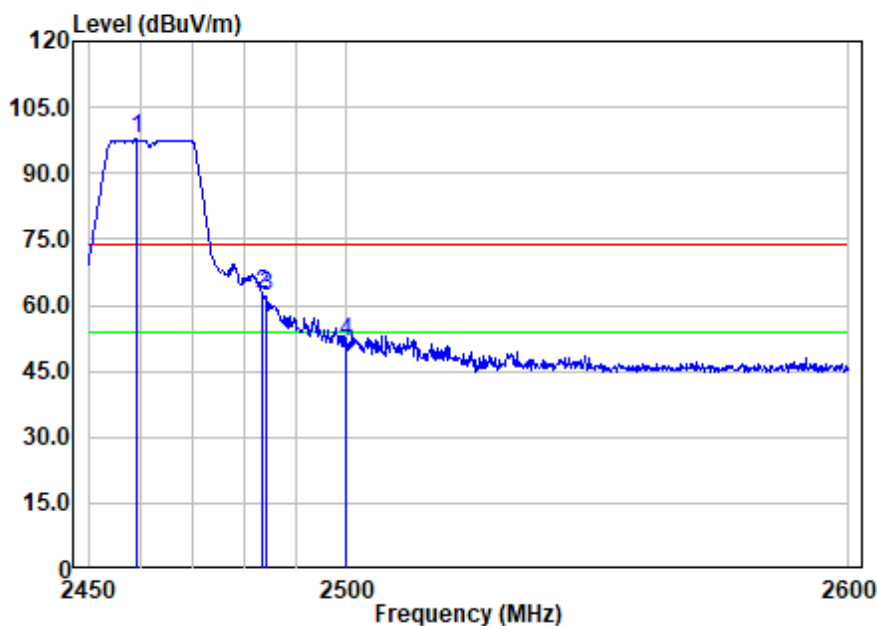
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2459.150	0.00	42.94	107.87	97.67	74.00	23.67	Peak
2	2483.500	0.00	42.94	72.78	62.71	74.00	-11.29	Peak
3	2484.200	0.00	42.94	72.11	62.04	74.00	-11.96	Peak
4	2500.000	0.00	42.94	61.39	51.40	74.00	-22.60	Peak



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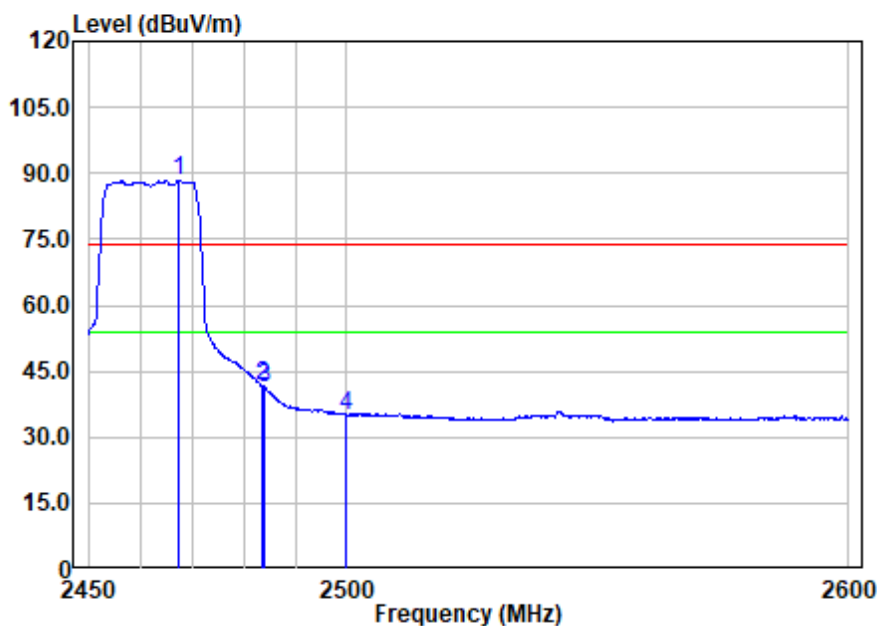
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2467.550	0.00	42.94	98.48	88.32	54.00	34.32	Average
2	2483.500	0.00	42.94	51.87	41.80	54.00	-12.20	Average
3	2484.050	0.00	42.94	51.49	41.42	54.00	-12.58	Average
4	2500.000	0.00	42.94	44.95	34.96	54.00	-19.04	Average



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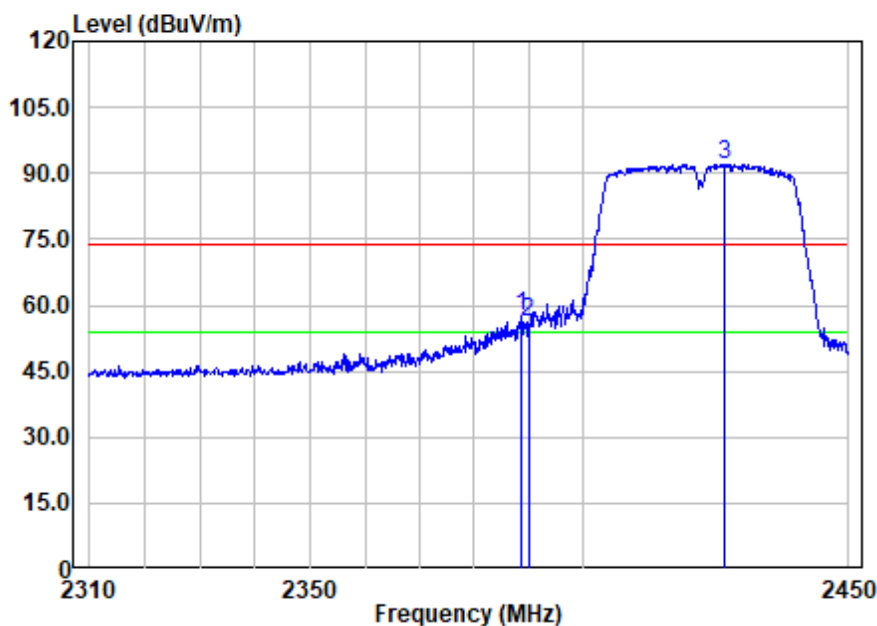
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.820	0.00	42.92	68.15	57.65	74.00	-16.35	Peak
2	2390.000	0.00	42.92	66.80	56.30	74.00	-17.70	Peak
3	2426.620	0.00	42.93	102.41	92.07	74.00	18.07	Peak



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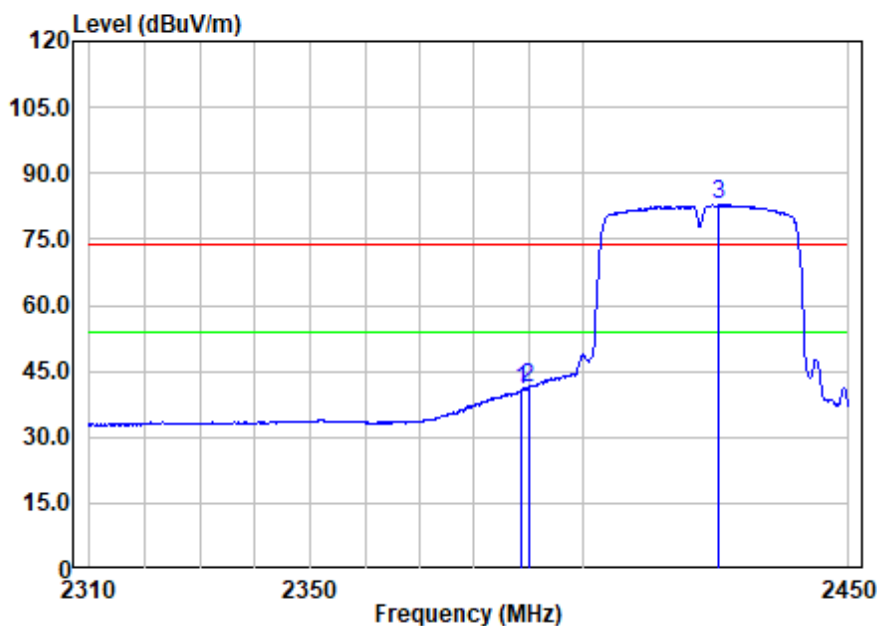
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.680	0.00	42.92	51.42	40.92	54.00	-13.08	Average
2	2390.000	0.00	42.92	51.85	41.35	54.00	-12.65	Average
3	2425.500	0.00	42.93	93.19	82.83	54.00	28.83	Average

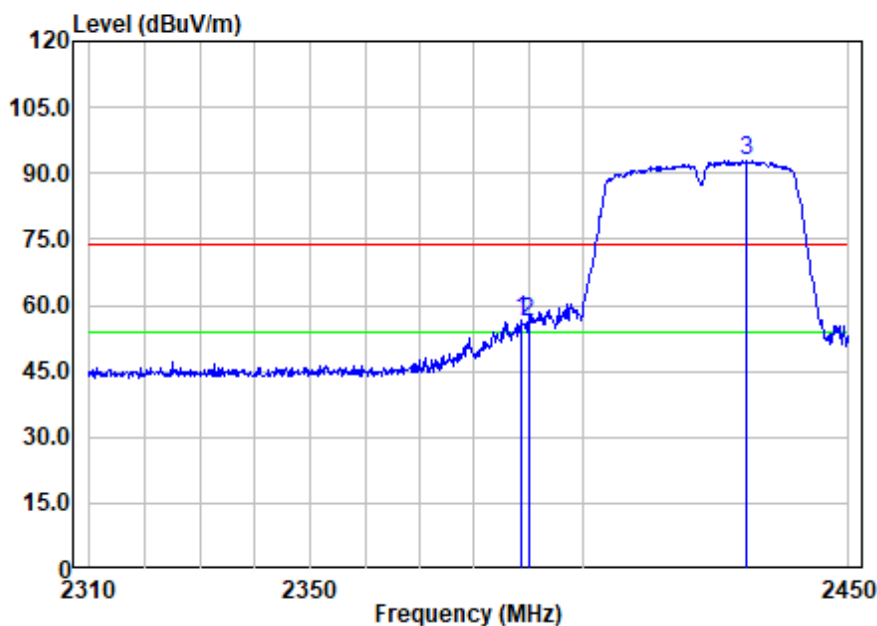


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.680	0.00	42.92	67.04	56.54	74.00	-17.46	Peak
2	2390.000	0.00	42.92	66.76	56.26	74.00	-17.74	Peak
3	2430.680	0.00	42.93	103.13	92.80	74.00	18.80	Peak


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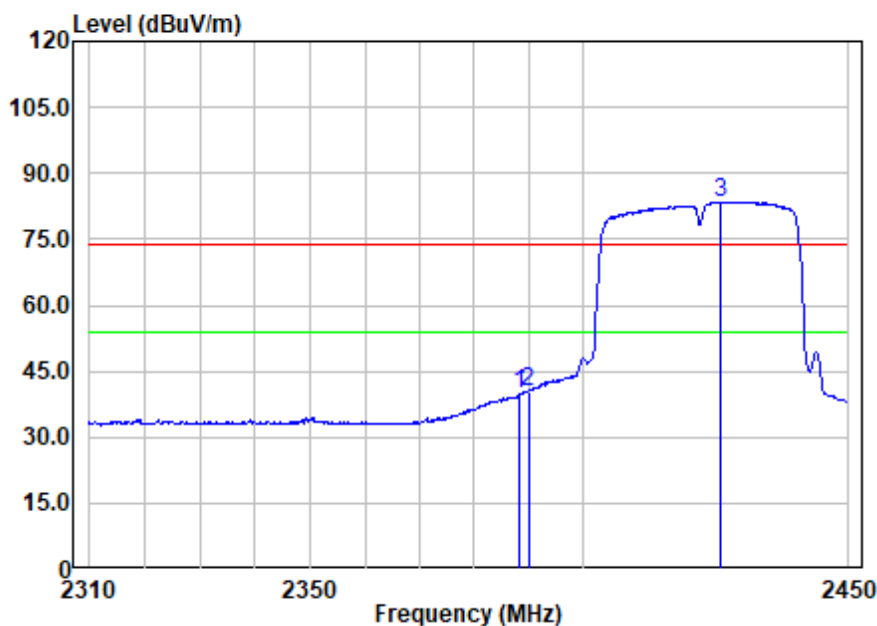
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.400	0.00	42.92	50.28	39.77	54.00	-14.23	Average
2	2390.000	0.00	42.92	50.88	40.38	54.00	-13.62	Average
3	2425.780	0.00	42.93	93.81	83.45	54.00	29.45	Average



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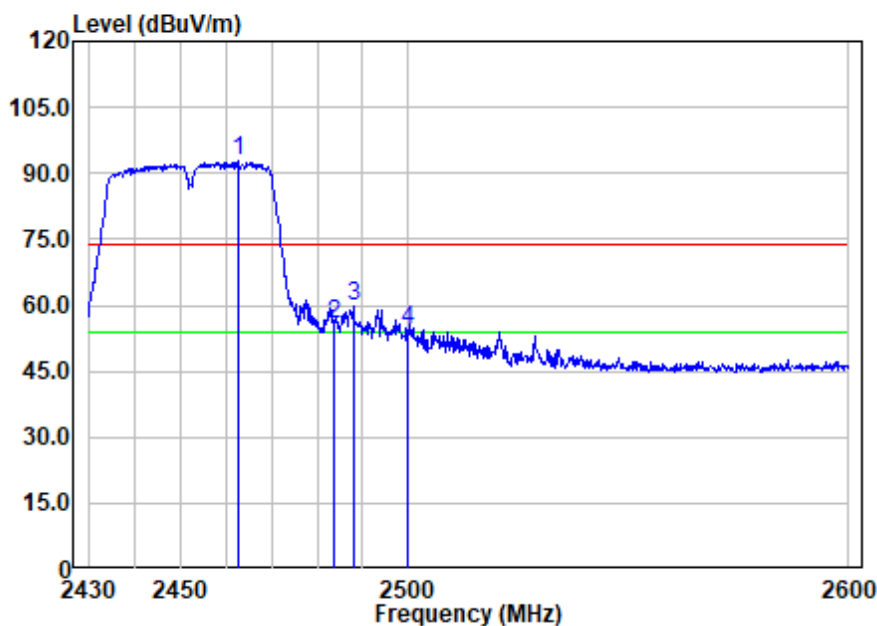
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.640	0.00	42.94	102.77	92.60	74.00	18.60	Peak
2	2483.500	0.00	42.94	65.64	55.57	74.00	-18.43	Peak
3	2487.970	0.00	42.94	69.72	59.67	74.00	-14.33	Peak
4	2500.000	0.00	42.94	64.16	54.17	74.00	-19.83	Peak



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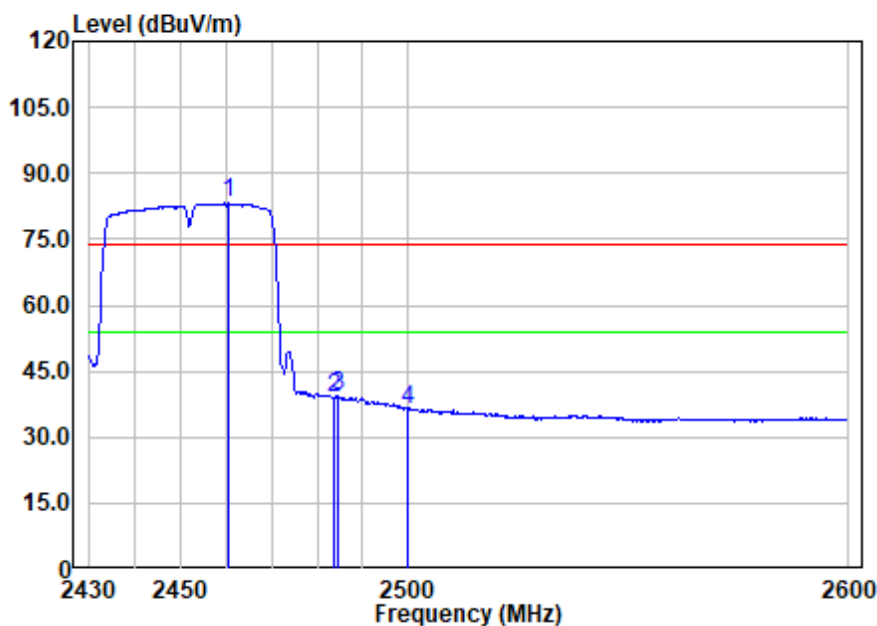
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2460.430	0.00	42.94	93.31	83.12	54.00	29.12	Average
2	2483.500	0.00	42.94	49.10	39.03	54.00	-14.97	Average
3	2484.740	0.00	42.94	49.31	39.25	54.00	-14.75	Average
4	2500.000	0.00	42.94	46.31	36.32	54.00	-17.68	Average



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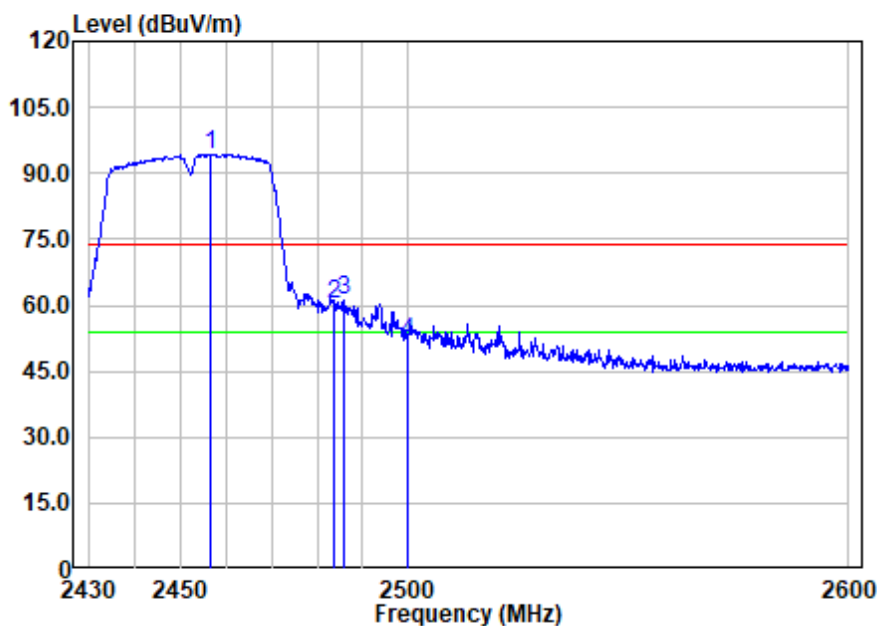
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2456.690	0.00	42.94	104.60	94.39	74.00	20.39	Peak
2	2483.500	0.00	42.94	70.24	60.17	74.00	-13.83	Peak
3	2485.760	0.00	42.94	71.09	61.03	74.00	-12.97	Peak
4	2500.000	0.00	42.94	61.43	51.44	74.00	-22.56	Peak



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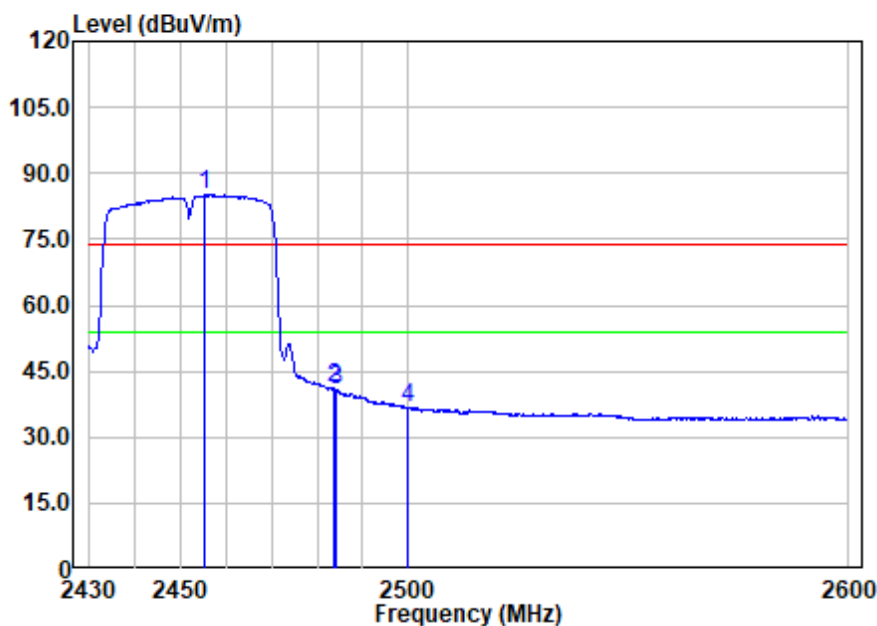
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	2455.330	0.00	42.94	95.26	85.05	54.00	31.05	Average
2	2483.500	0.00	42.94	51.08	41.01	54.00	-12.99	Average
3	2484.230	0.00	42.94	50.84	40.77	54.00	-13.23	Average
4	2500.000	0.00	42.94	46.75	36.76	54.00	-17.24	Average



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6.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

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

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

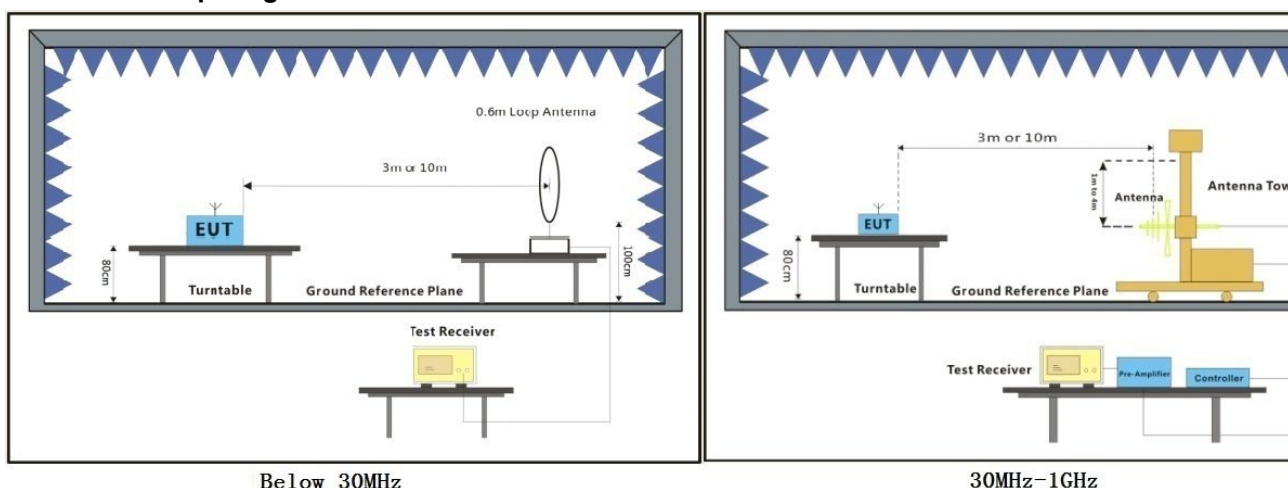
Humidity: 58.3 % RH

Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

6.3.3 Test Setup Diagram



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6.3.4 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. 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.

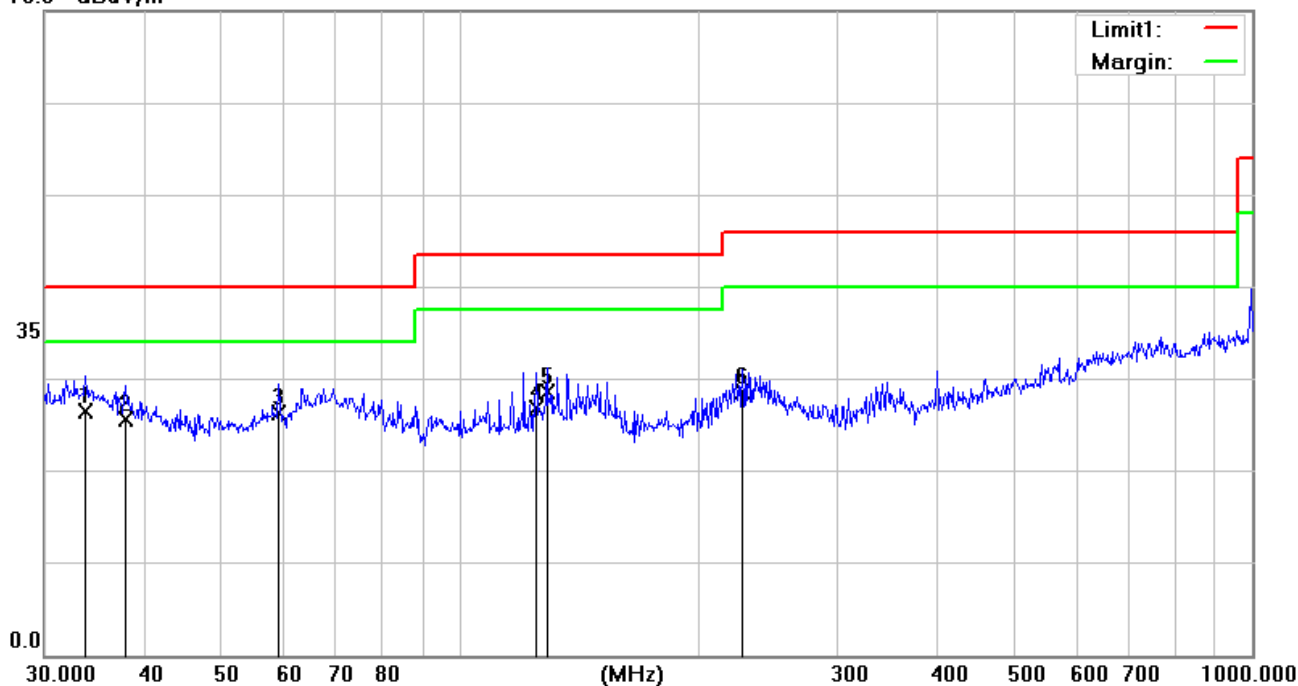
Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. 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.
3. 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.



Test Mode: 00 Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	33.7986	1.59	24.93	26.52	40.00	-13.48	100	192	QP
2	37.9450	2.51	23.15	25.66	40.00	-14.34	100	86	QP
3	59.2325	11.36	15.05	26.41	40.00	-13.59	100	143	QP
4	125.0066	7.36	19.46	26.82	43.50	-16.68	100	46	QP
5	129.0146	9.23	19.41	28.64	43.50	-14.86	100	49	QP
6	227.6906	11.32	17.34	28.66	46.00	-17.34	100	306	QP



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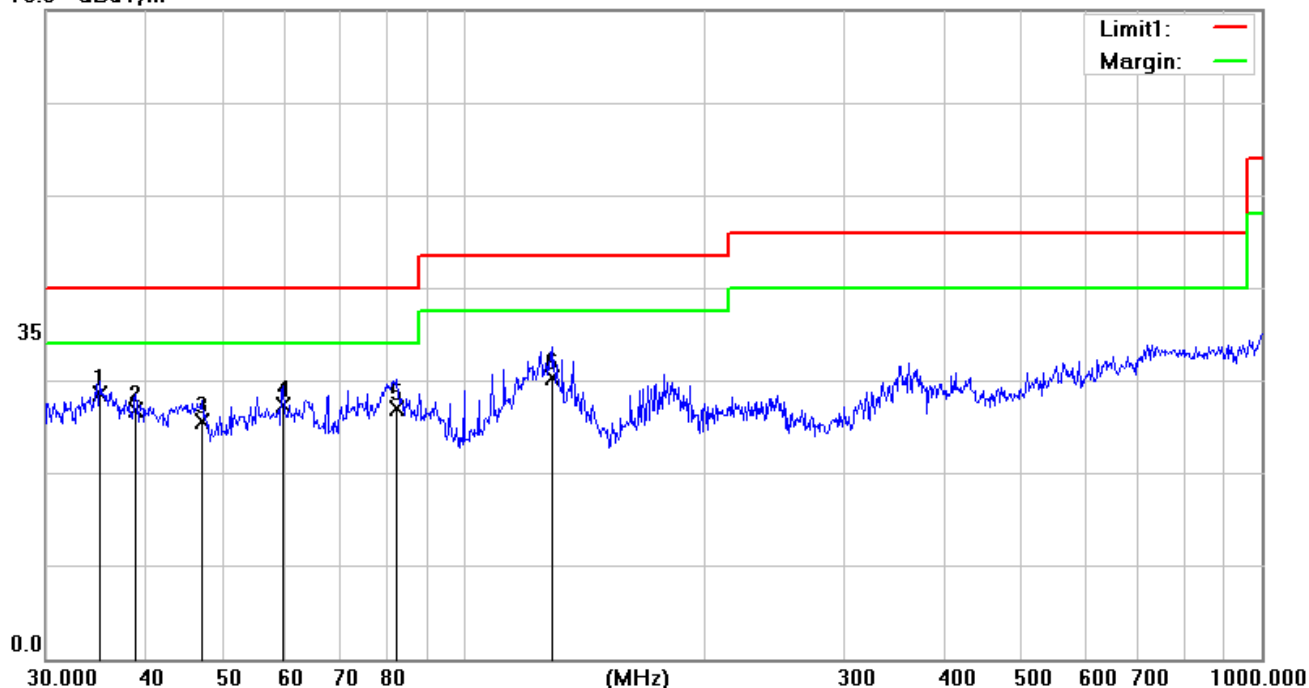
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Test Mode: 00 Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	35.1278	4.05	24.57	28.62	40.00	-11.38	100	63	QP
2	38.8879	4.09	22.72	26.81	40.00	-13.19	100	222	QP
3	46.9948	6.69	18.97	25.66	40.00	-14.34	100	265	QP
4	59.4405	12.40	15.02	27.42	40.00	-12.58	200	81	QP
5	82.3589	12.94	14.05	26.99	40.00	-13.01	100	259	QP
6	129.0146	11.01	19.41	30.42	43.50	-13.08	200	337	QP


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6.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

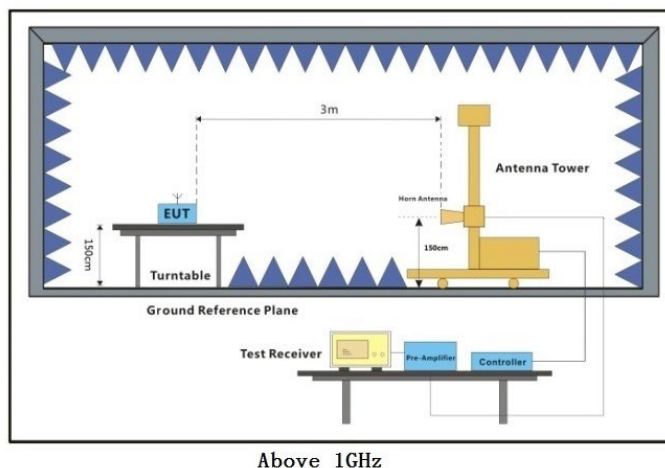
Humidity: 58.3 % RH

Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

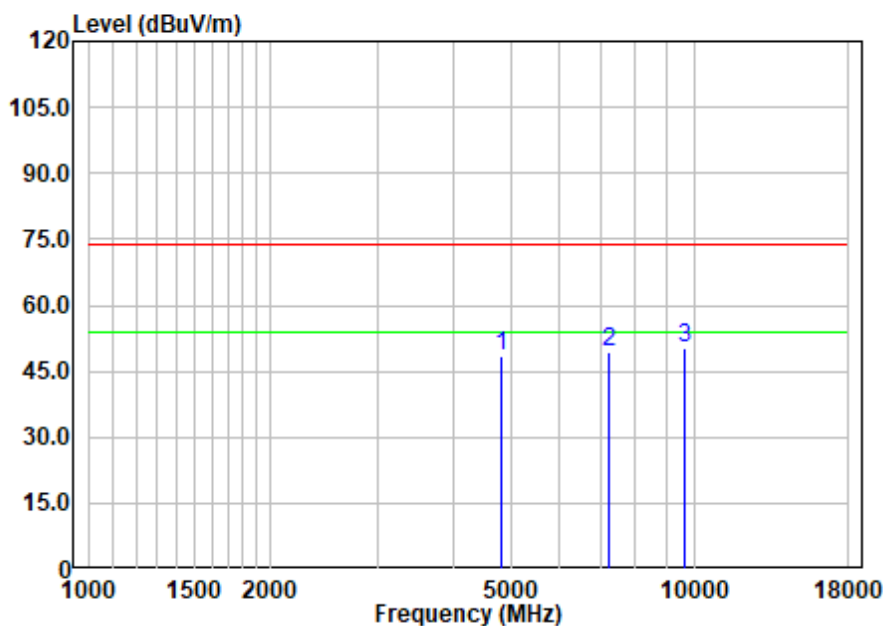
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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 1GHz to 25GHz, 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.



Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	0.00	42.24	48.22	48.29	74.00	-25.71	Peak
2	7236.000	0.00	42.61	46.08	49.28	74.00	-24.72	Peak
3	9648.000	0.00	42.32	43.14	50.10	74.00	-23.90	Peak



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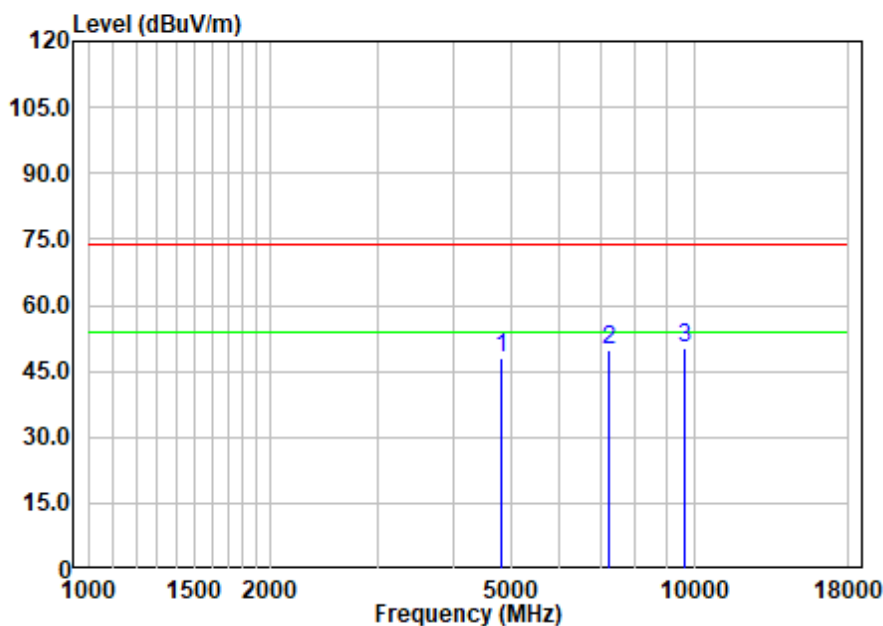
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	0.00	42.24	48.00	48.07	74.00	-25.93	Peak
2	7236.000	0.00	42.61	46.67	49.87	74.00	-24.13	Peak
3	9648.000	0.00	42.32	43.28	50.24	74.00	-23.76	Peak



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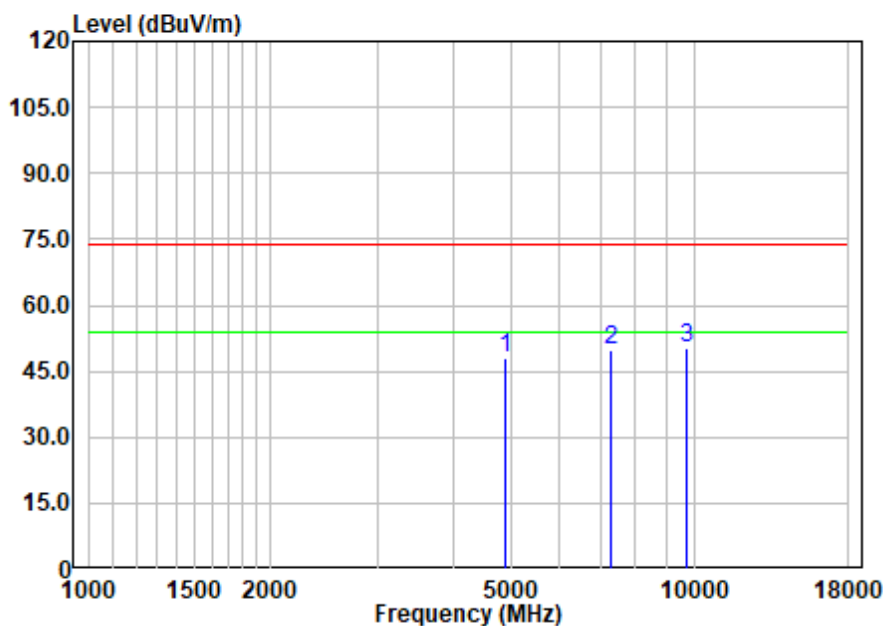
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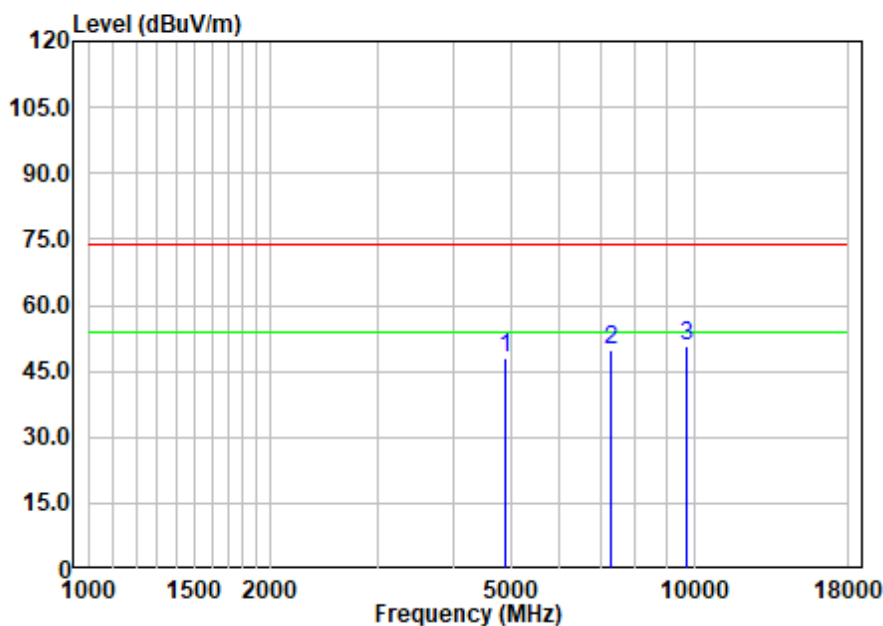
Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	0.00	41.92	47.61	48.03	74.00	-25.97	Peak
2	7311.000	0.00	42.50	46.41	49.81	74.00	-24.19	Peak
3	9748.000	0.00	42.61	43.28	50.11	74.00	-23.89	Peak



Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	0.00	41.92	47.60	48.02	74.00	-25.98	Peak
2	7311.000	0.00	42.50	46.23	49.63	74.00	-24.37	Peak
3	9748.000	0.00	42.61	43.88	50.71	74.00	-23.29	Peak



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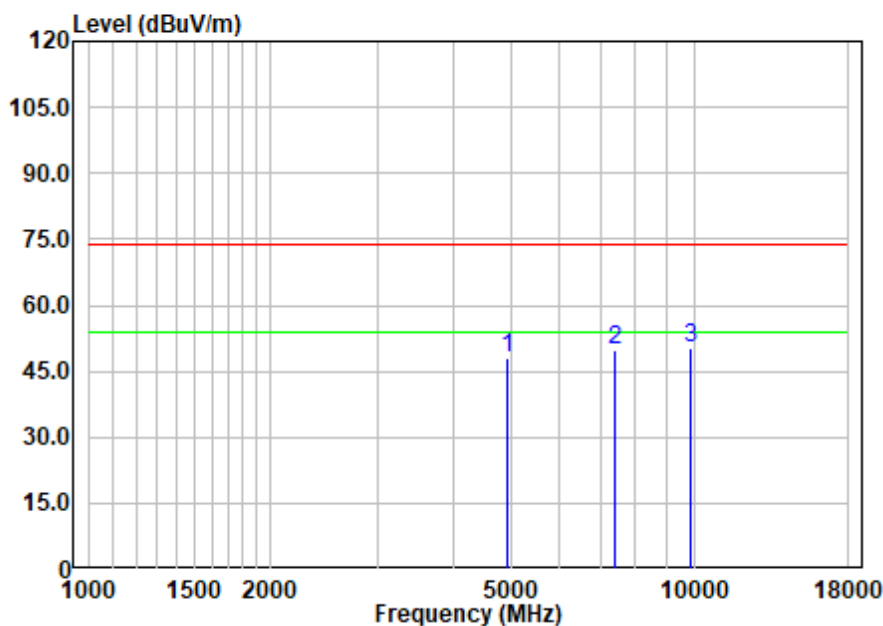
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	0.00	41.69	47.35	48.02	74.00	-25.98	Peak
2	7386.000	0.00	42.44	46.16	49.73	74.00	-24.27	Peak
3	9848.000	0.00	42.43	43.06	50.24	74.00	-23.76	Peak



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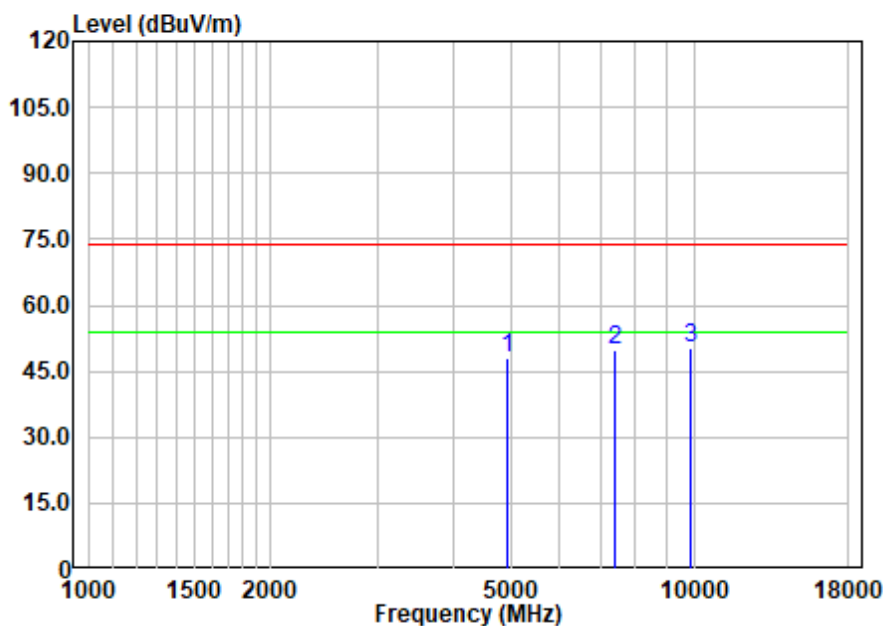
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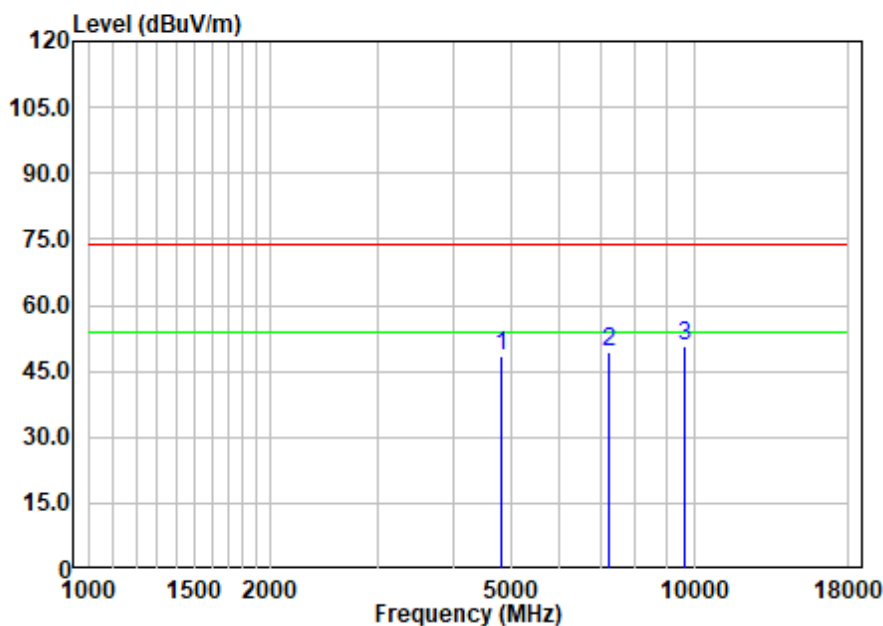
Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	0.00	41.69	47.41	48.08	74.00	-25.92	Peak
2	7386.000	0.00	42.44	46.27	49.84	74.00	-24.16	Peak
3	9848.000	0.00	42.43	42.87	50.05	74.00	-23.95	Peak



Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	0.00	42.24	48.45	48.52	74.00	-25.48	Peak
2	7236.000	0.00	42.61	46.33	49.53	74.00	-24.47	Peak
3	9648.000	0.00	42.32	43.73	50.69	74.00	-23.31	Peak



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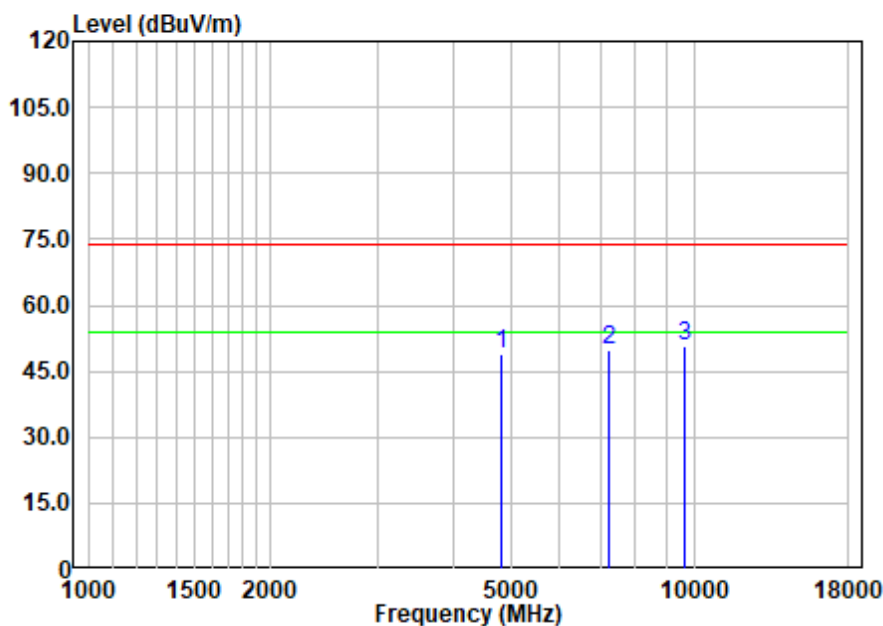
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	0.00	42.24	48.90	48.97	74.00	-25.03	Peak
2	7236.000	0.00	42.61	46.40	49.60	74.00	-24.40	Peak
3	9648.000	0.00	42.32	43.70	50.66	74.00	-23.34	Peak



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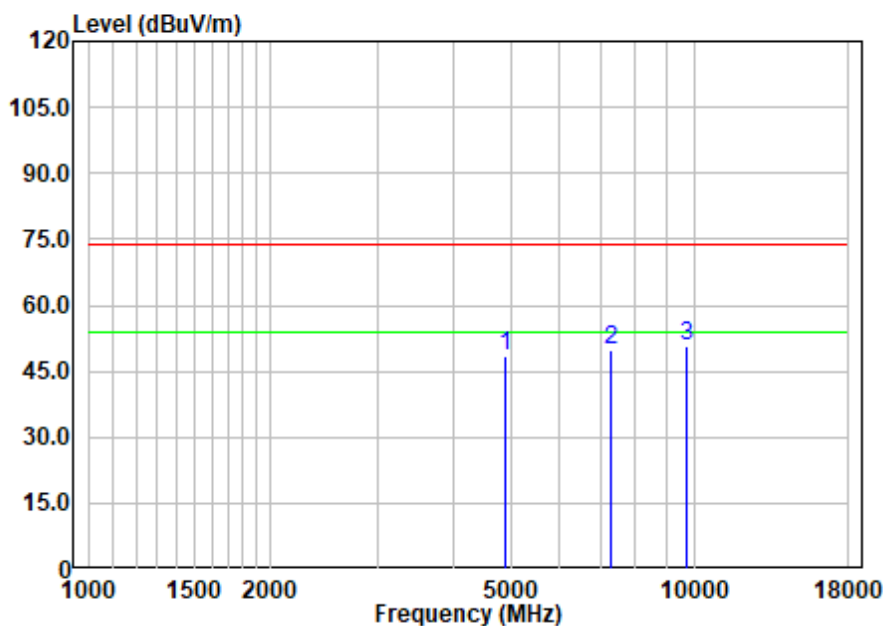
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	0.00	41.92	48.22	48.64	74.00	-25.36	Peak
2	7311.000	0.00	42.50	46.46	49.86	74.00	-24.14	Peak
3	9748.000	0.00	42.61	43.84	50.67	74.00	-23.33	Peak



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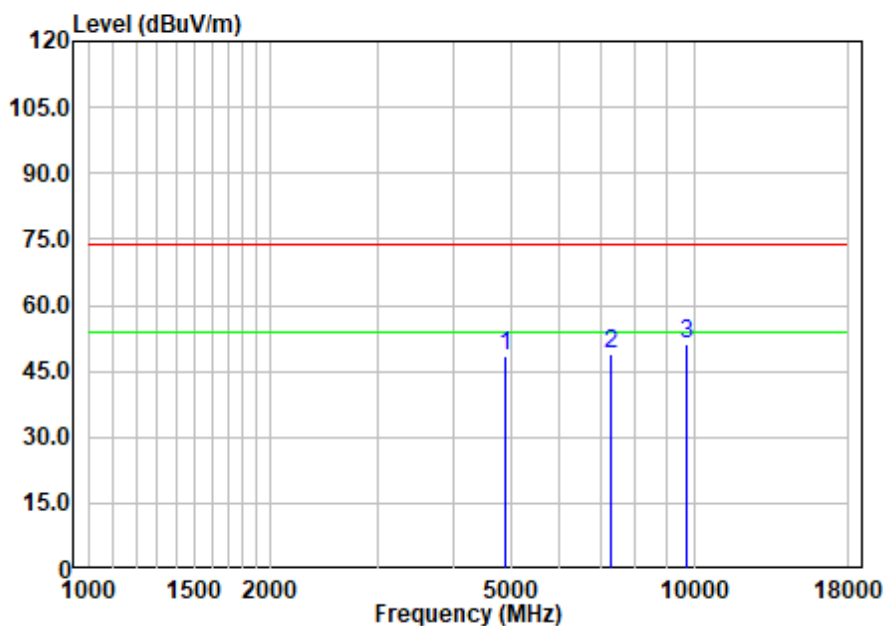
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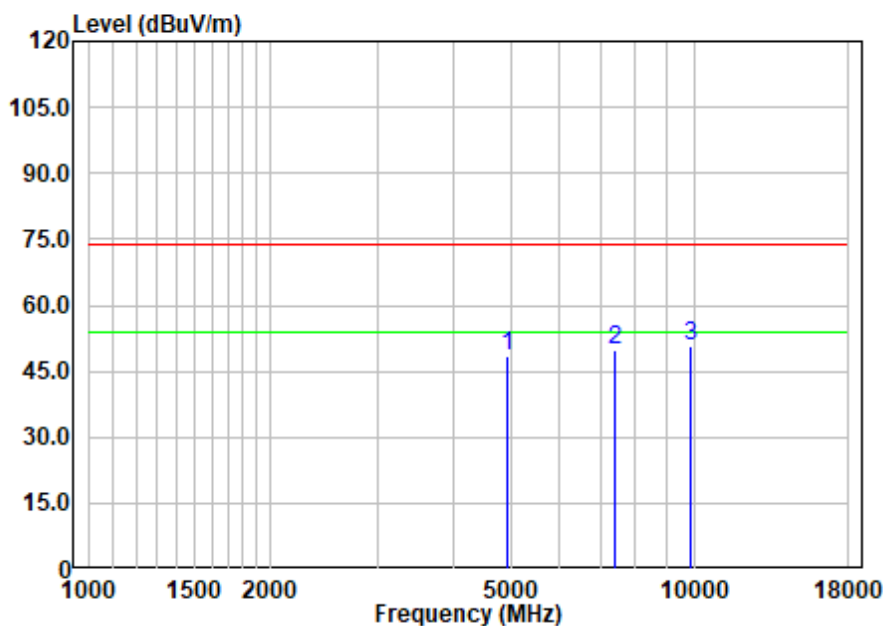
Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	0.00	41.92	47.88	48.30	74.00	-25.70	Peak
2	7311.000	0.00	42.50	45.60	49.00	74.00	-25.00	Peak
3	9748.000	0.00	42.61	44.15	50.98	74.00	-23.02	Peak



Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	Aux Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	0.00	41.69	47.80	48.47	74.00	-25.53	Peak
2	7386.000	0.00	42.44	46.34	49.91	74.00	-24.09	Peak
3	9848.000	0.00	42.43	43.74	50.92	74.00	-23.08	Peak



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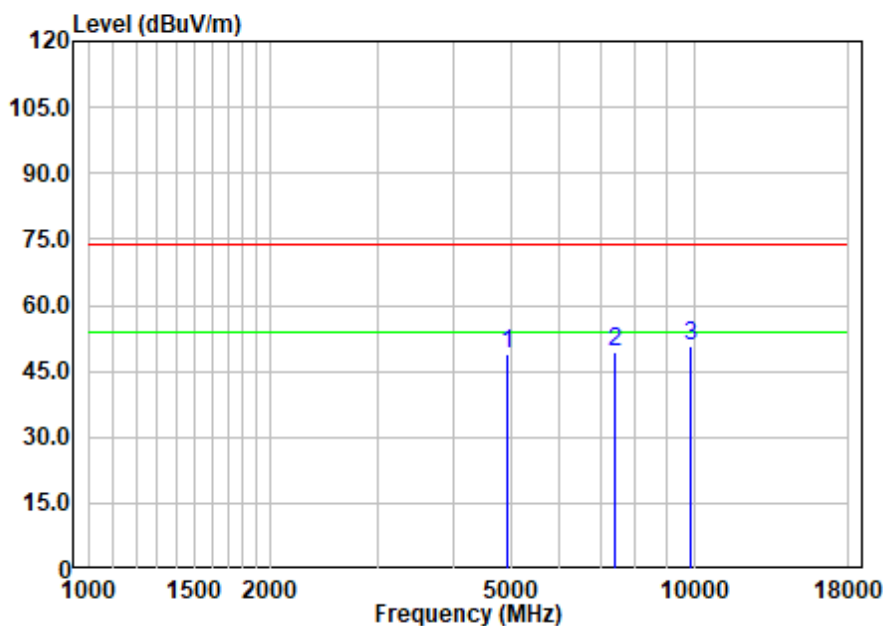
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	0.00	41.69	48.23	48.90	74.00	-25.10	Peak
2	7386.000	0.00	42.44	45.60	49.17	74.00	-24.83	Peak
3	9848.000	0.00	42.43	43.61	50.79	74.00	-23.21	Peak



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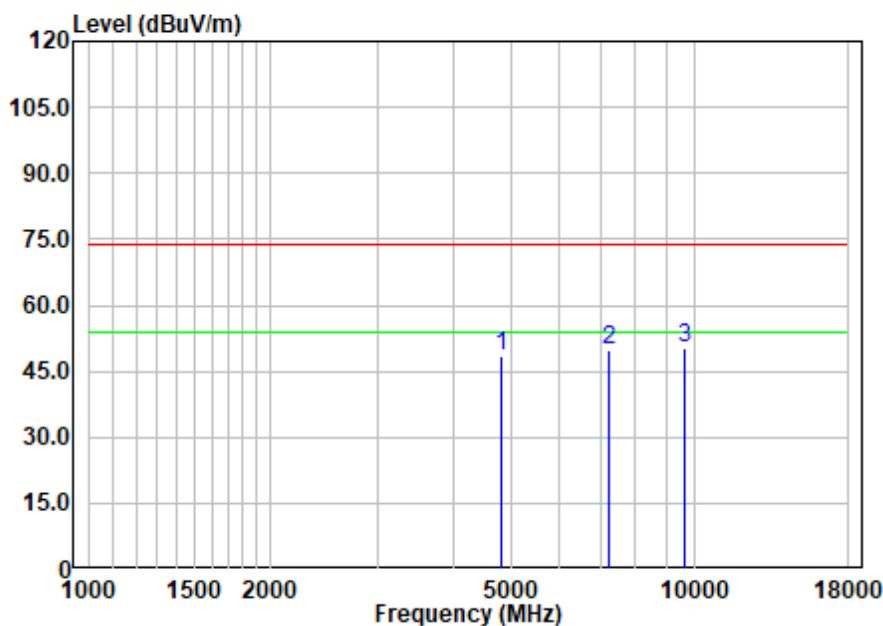
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	0.00	42.24	48.40	48.47	74.00	-25.53	Peak
2	7236.000	0.00	42.61	46.76	49.96	74.00	-24.04	Peak
3	9648.000	0.00	42.32	43.45	50.41	74.00	-23.59	Peak



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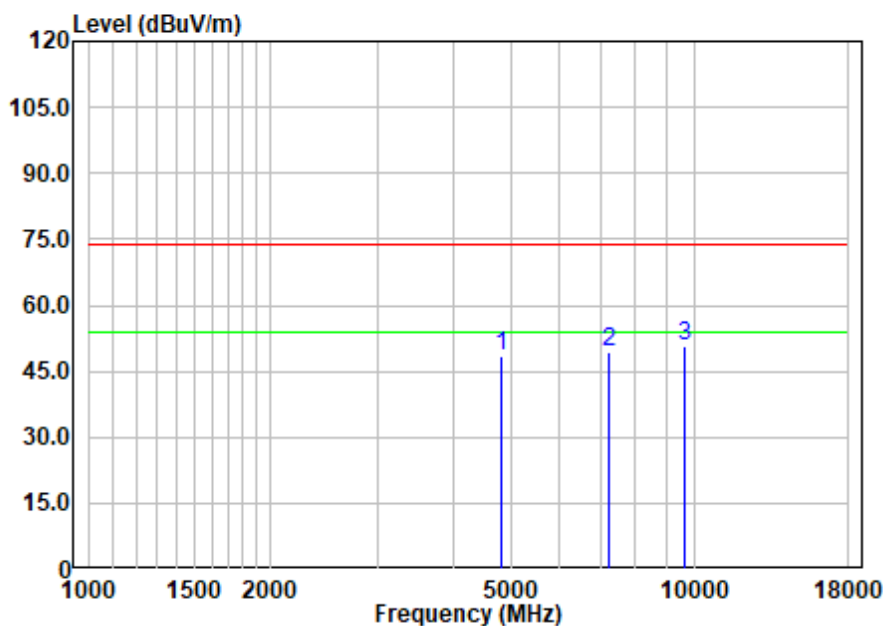
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	0.00	42.24	48.20	48.27	74.00	-25.73	Peak
2	7236.000	0.00	42.61	46.36	49.56	74.00	-24.44	Peak
3	9648.000	0.00	42.32	43.64	50.60	74.00	-23.40	Peak



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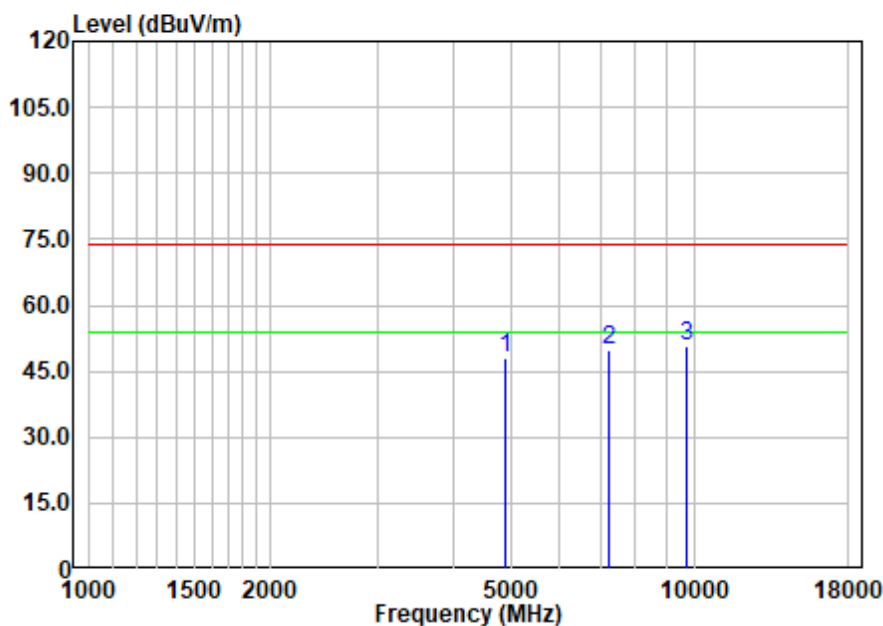
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	0.00	41.92	47.67	48.09	74.00	-25.91	Peak
2	7236.000	0.00	42.61	46.56	49.76	74.00	-24.24	Peak
3	9748.000	0.00	42.61	43.87	50.70	74.00	-23.30	Peak



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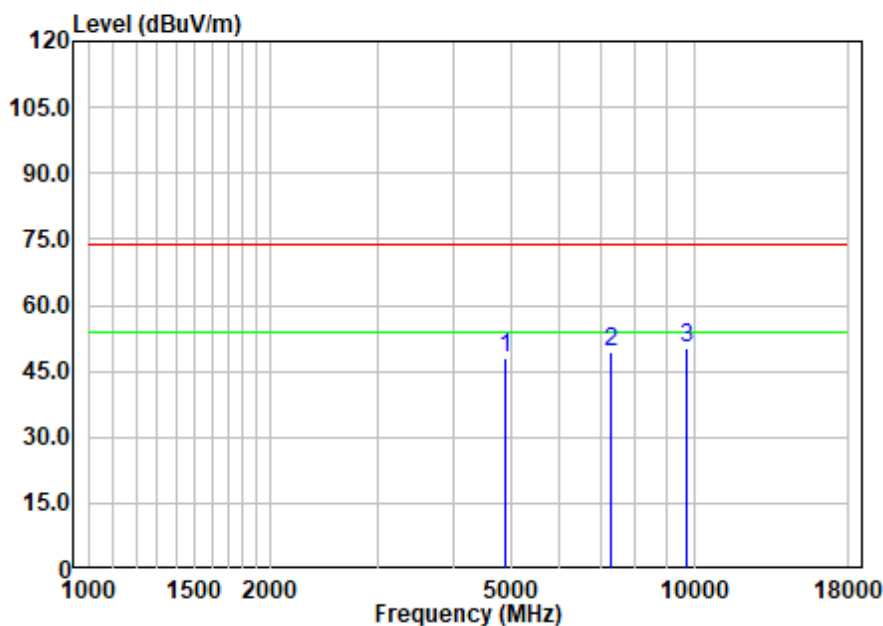
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	0.00	41.92	47.65	48.07	74.00	-25.93	Peak
2	7311.000	0.00	42.50	45.87	49.27	74.00	-24.73	Peak
3	9748.000	0.00	42.61	43.32	50.15	74.00	-23.85	Peak



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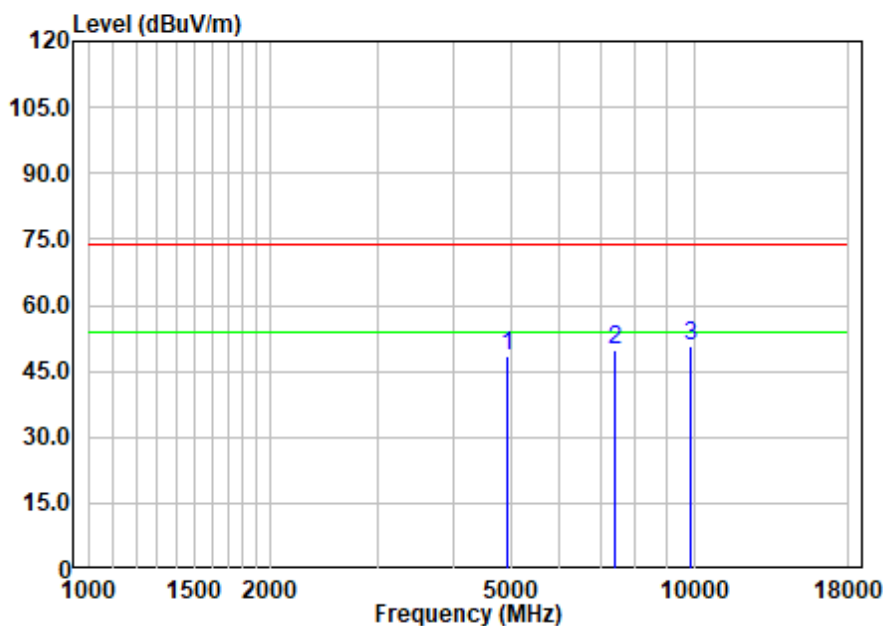
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	0.00	41.69	47.64	48.31	74.00	-25.69	Peak
2	7386.000	0.00	42.44	46.22	49.79	74.00	-24.21	Peak
3	9848.000	0.00	42.43	43.68	50.86	74.00	-23.14	Peak



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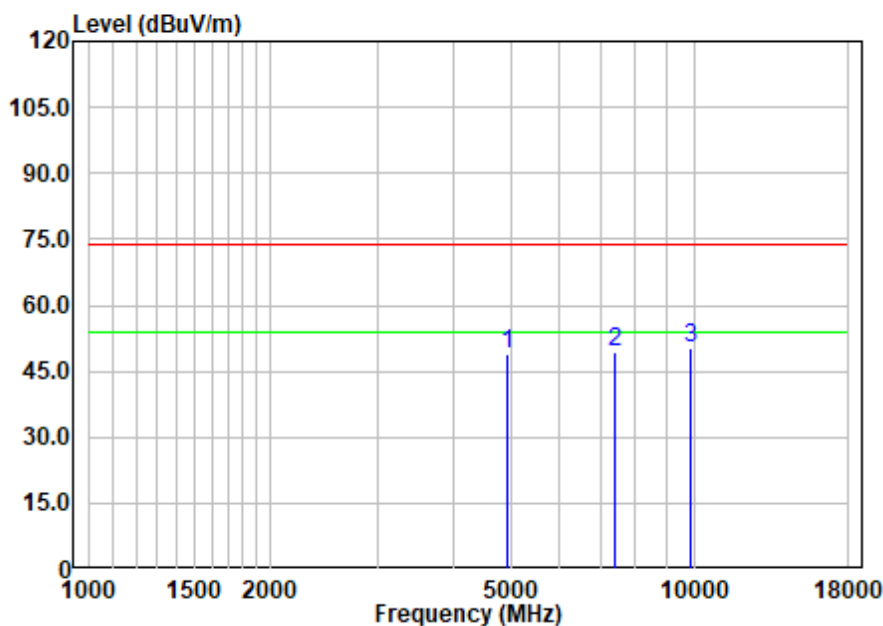
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		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	0.00	41.69	48.29	48.96	74.00	-25.04	Peak
2	7386.000	0.00	42.44	45.68	49.25	74.00	-24.75	Peak
3	9848.000	0.00	42.43	42.96	50.14	74.00	-23.86	Peak



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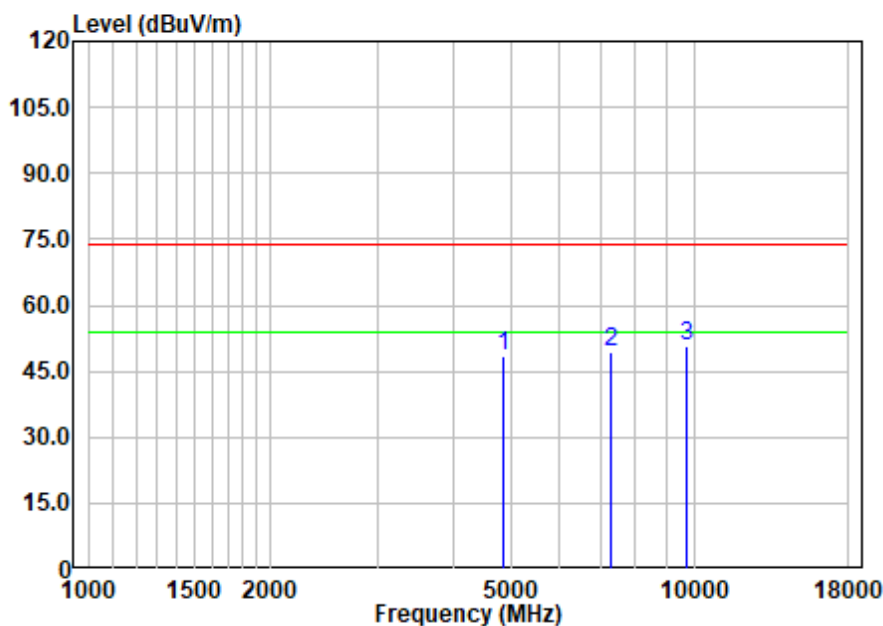
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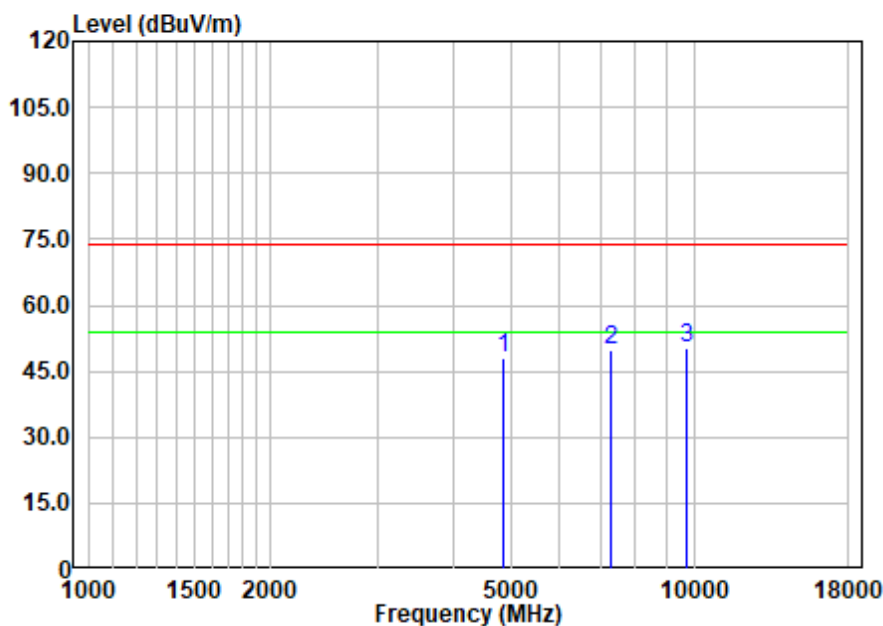
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	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4844.000	0.00	42.11	48.34	48.56	74.00	-25.44	Peak
2	7266.000	0.00	42.56	45.92	49.21	74.00	-24.79	Peak
3	9688.000	0.00	42.64	43.91	50.61	74.00	-23.39	Peak



Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4844.000	0.00	42.11	47.88	48.10	74.00	-25.90	Peak
2	7266.000	0.00	42.56	46.61	49.90	74.00	-24.10	Peak
3	9688.000	0.00	42.64	43.67	50.37	74.00	-23.63	Peak



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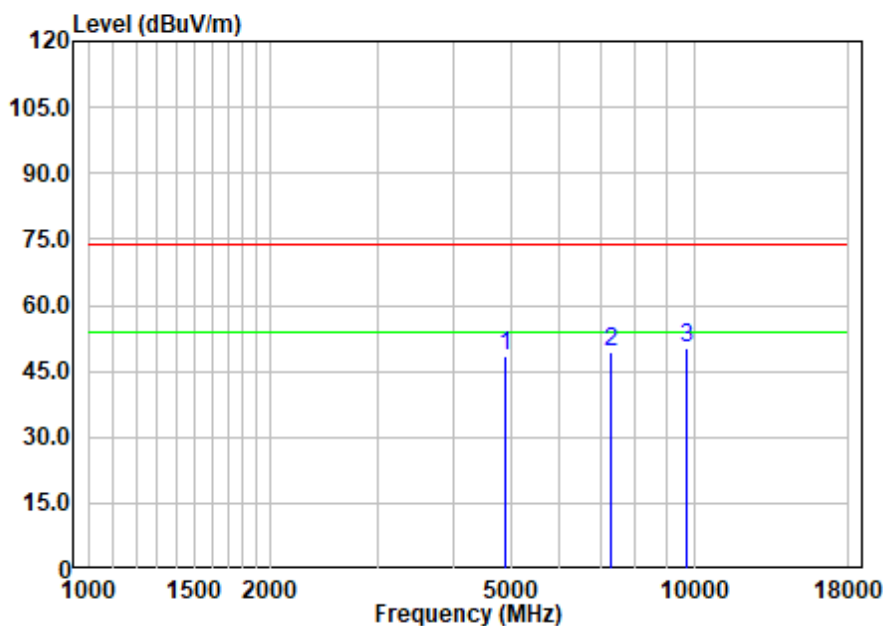
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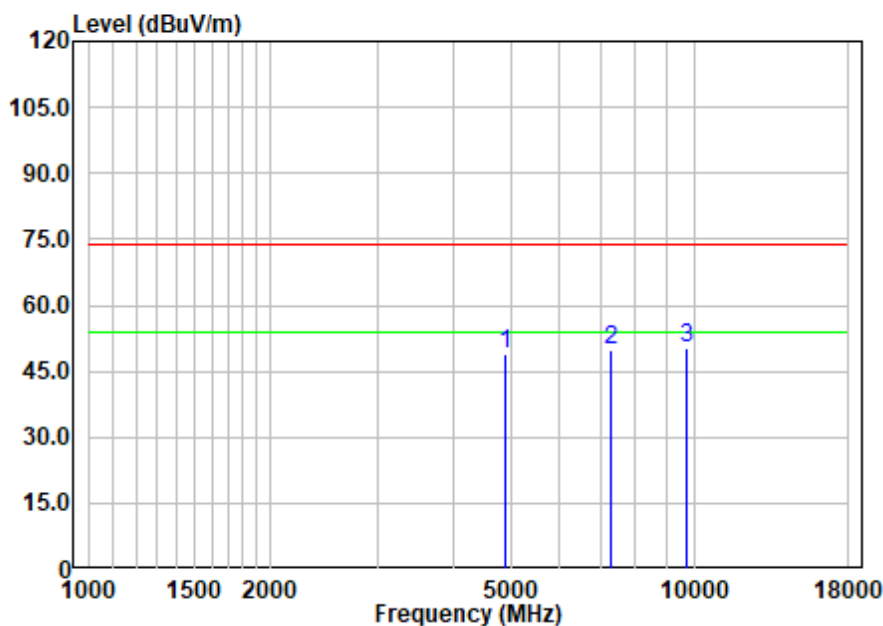
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	Freq	Aux Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	0.00	41.92	47.94	48.36	74.00	-25.64	Peak
2	7311.000	0.00	42.50	45.79	49.19	74.00	-24.81	Peak
3	9748.000	0.00	42.61	43.23	50.06	74.00	-23.94	Peak



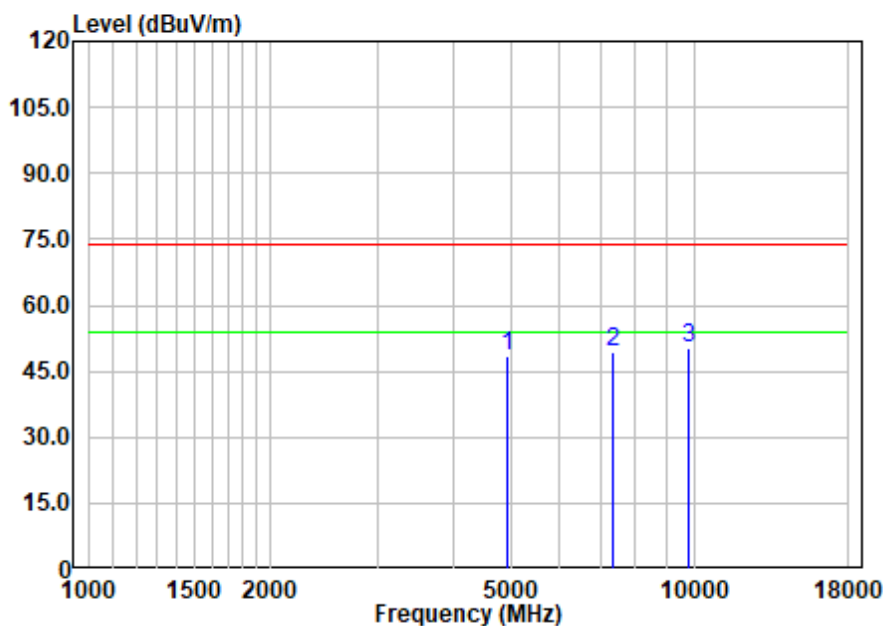
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	Freq	Aux Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	0.00	41.92	48.55	48.97	74.00	-25.03	Peak
2	7311.000	0.00	42.50	46.52	49.92	74.00	-24.08	Peak
3	9748.000	0.00	42.61	43.53	50.36	74.00	-23.64	Peak



Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4904.000	0.00	41.74	47.95	48.56	74.00	-25.44	Peak
2	7356.000	0.00	42.47	46.00	49.50	74.00	-24.50	Peak
3	9808.000	0.00	42.45	42.99	50.09	74.00	-23.91	Peak



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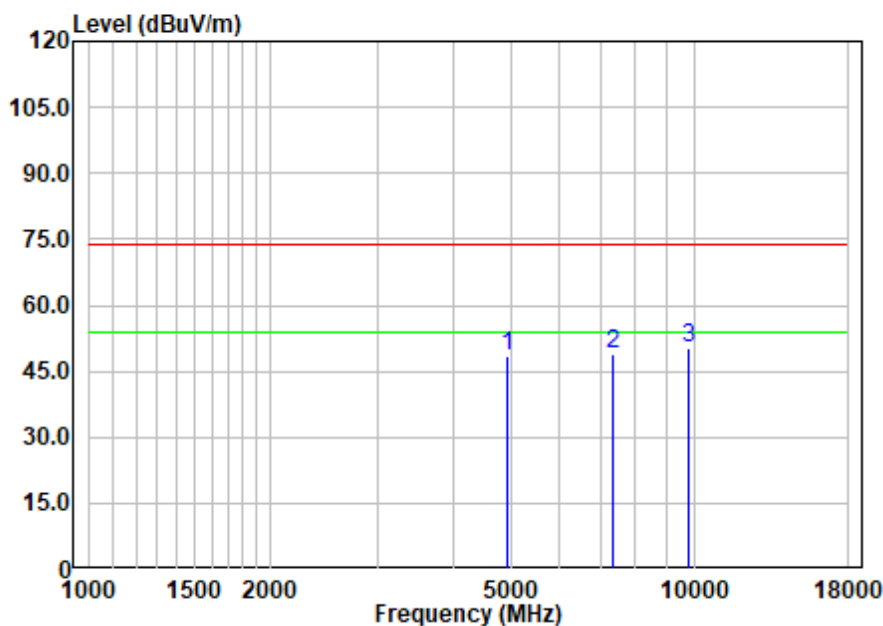
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		Aux	Preamp	Read		Limit	Over	
	Freq	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dB	dBuV	dBuV/m	dBuV/m	dB	
1	4904.000	0.00	41.74	47.96	48.57	74.00	-25.43	Peak
2	7356.000	0.00	42.47	45.55	49.05	74.00	-24.95	Peak
3	9808.000	0.00	42.45	43.03	50.13	74.00	-23.87	Peak



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2208001661AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2208001661AT



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9 Appendix

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 (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



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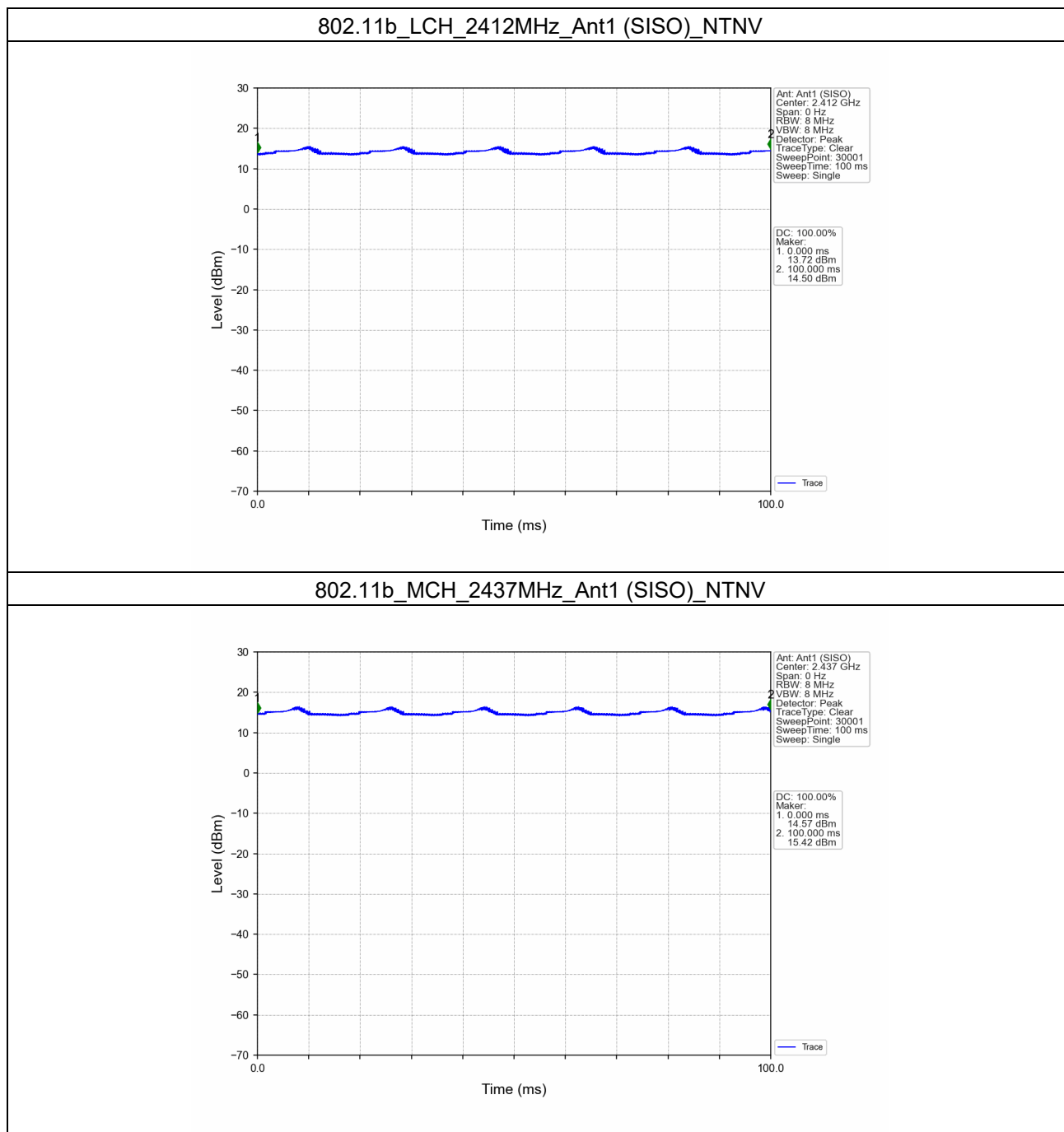
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1.1.2 Test Graph



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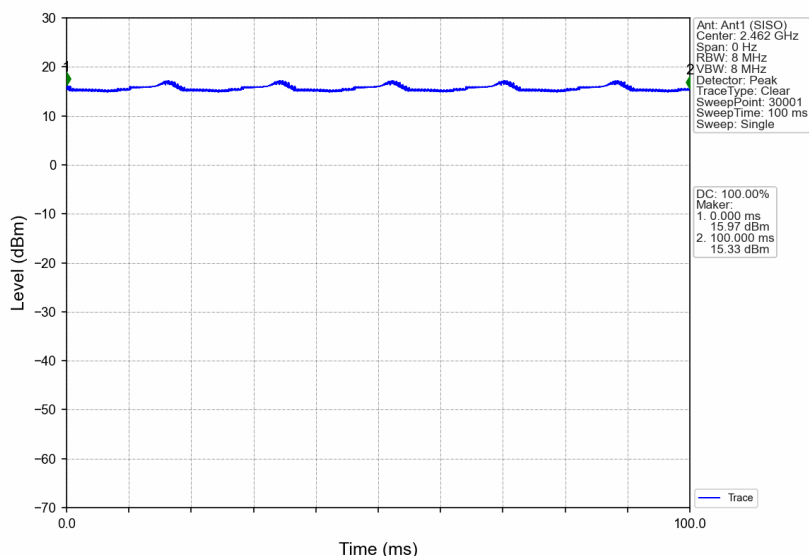
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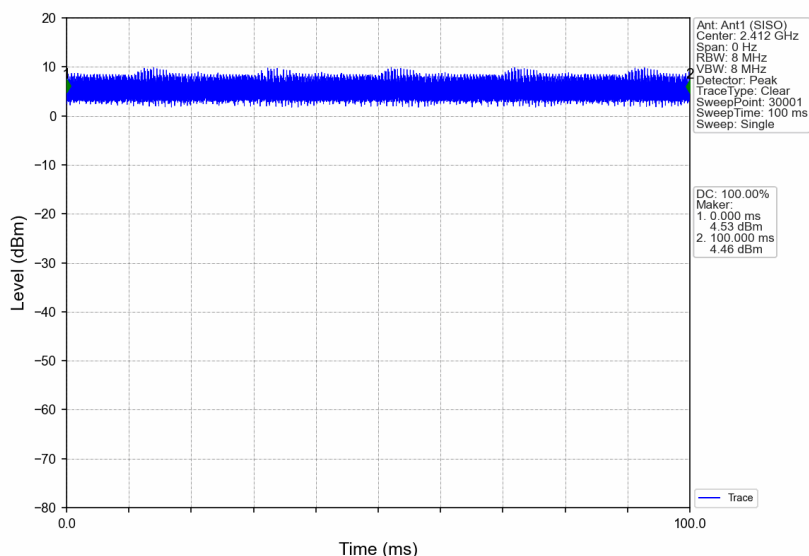
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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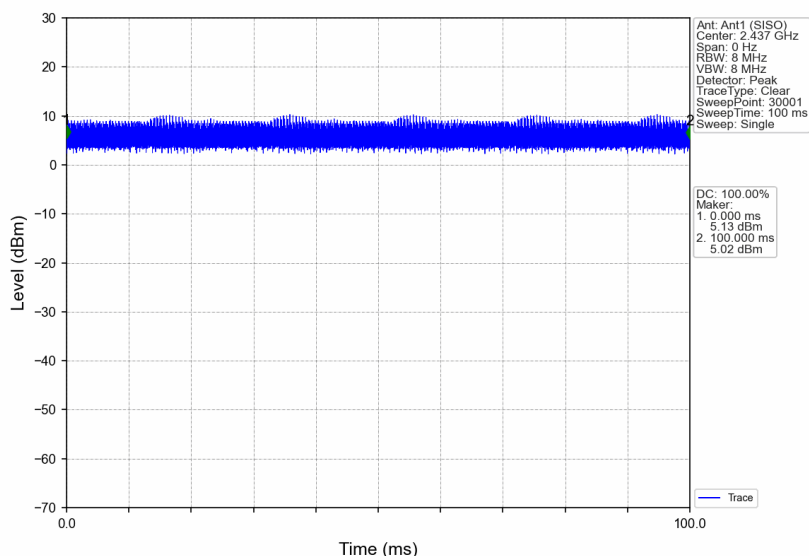
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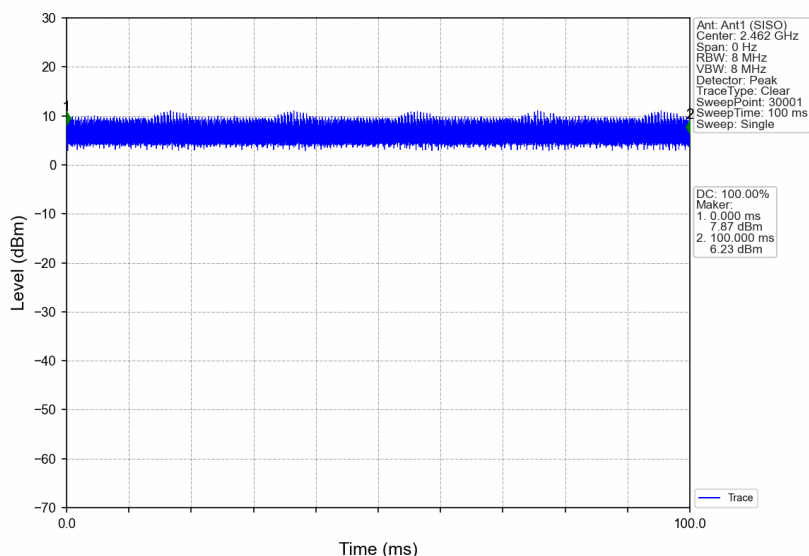
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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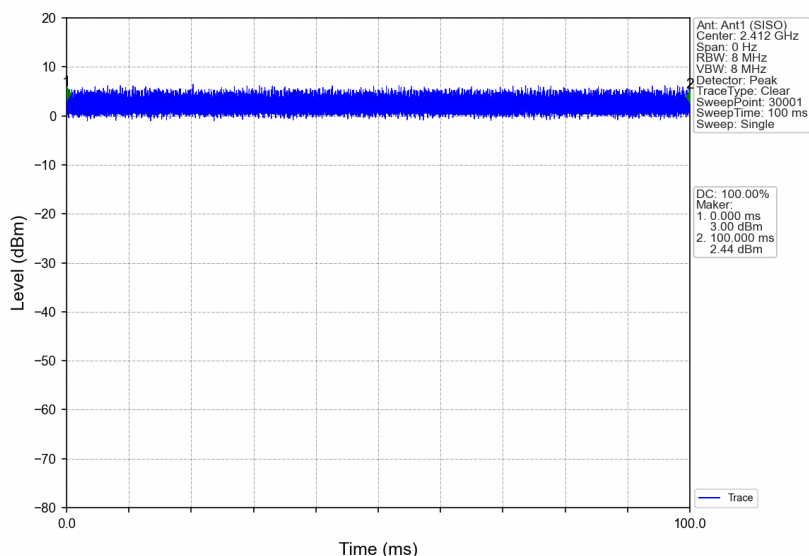
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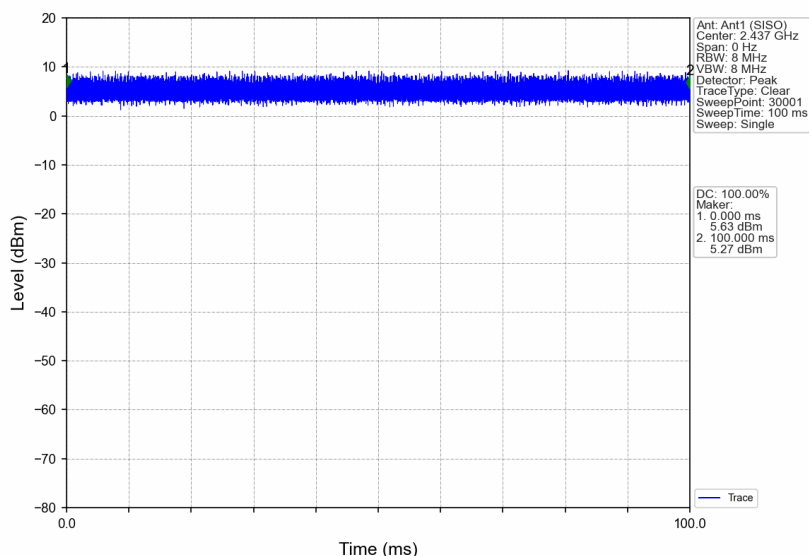
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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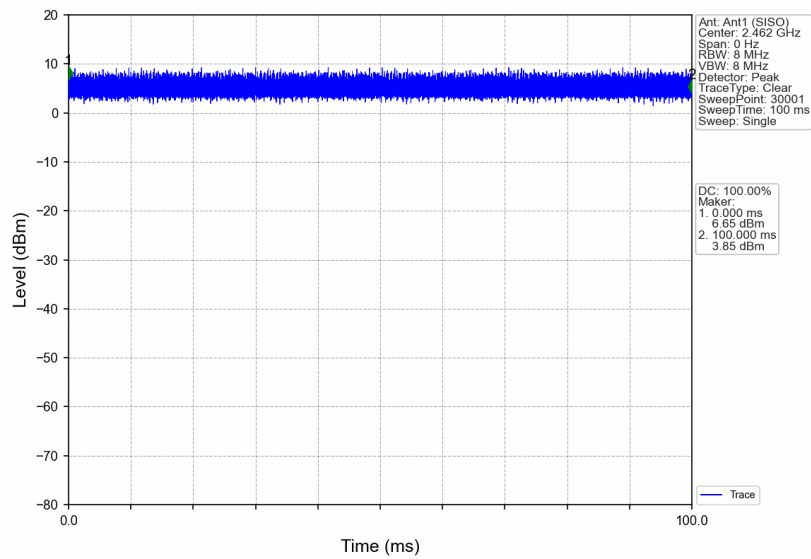
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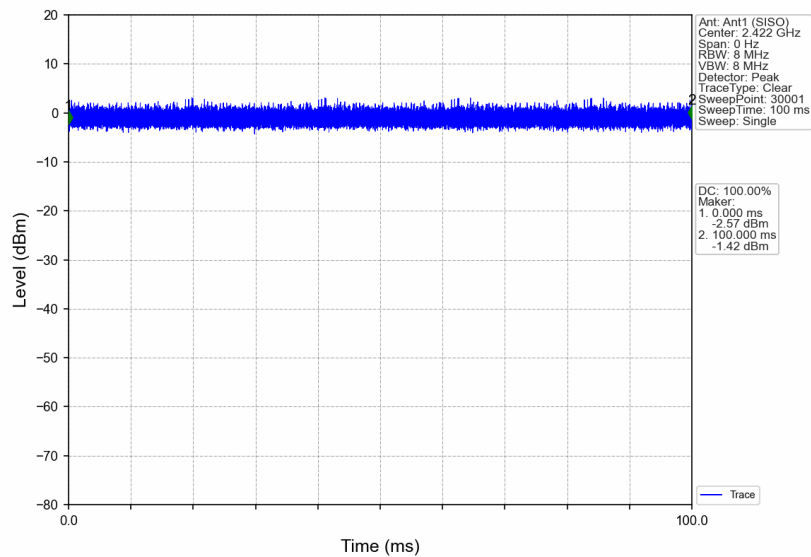
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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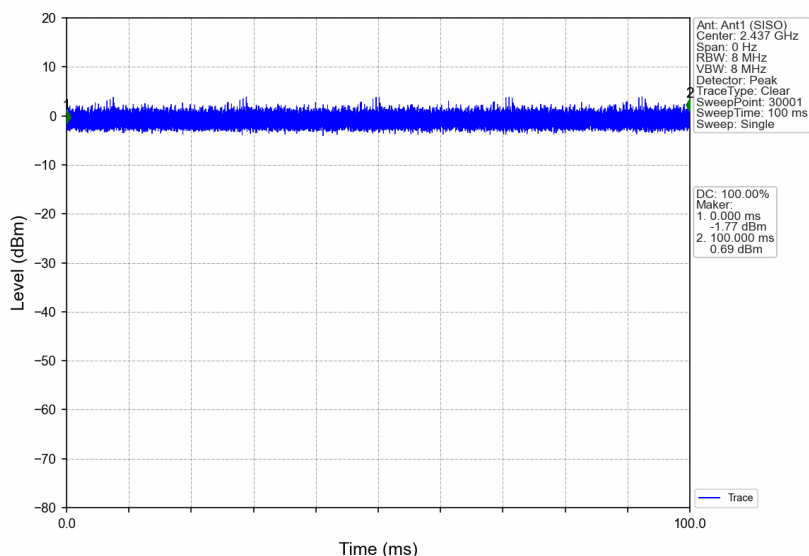
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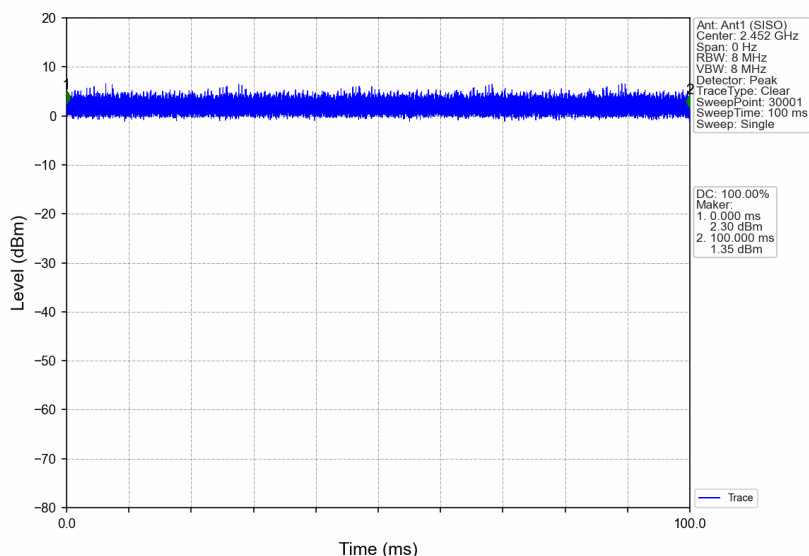
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.17	<=30	Pass
		2437	13.99	<=30	Pass
		2462	14.69	<=30	Pass
802.11g	SISO	2412	10.14	<=30	Pass
		2437	10.60	<=30	Pass
		2462	11.31	<=30	Pass
802.11n (HT20)	SISO	2412	8.61	<=30	Pass
		2437	10.31	<=30	Pass
		2462	10.41	<=30	Pass
802.11n (HT40)	SISO	2422	8.83	<=30	Pass
		2437	9.26	<=30	Pass
		2452	10.25	<=30	Pass

Note1: Antenna Gain: Ant1: -1.7dBi;

- End of the Report -



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