

TEST REPORT

Application No.: GZCR2108020923AT
Applicant: JVCKENWOOD Corporation
Address of Applicant: 2967-3, Ishikawa-machi, Hachioji-shi, Tokyo 192-8525, Japan
Manufacturer: JVCKENWOOD Corporation
Address of Manufacturer: 2967-3, Ishikawa-machi, Hachioji-shi, Tokyo 192-8525, Japan
Factory: Cansonic Company Limited
Address of Factory: 3/F, Building 1, Guanlan Industrial Park, Grain Group, 299 Guanping Road, Dafu Community, Guanlan South, Longhua New District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Dashboard Camera
Model No.: DRV-A601W
Trade Mark: KENWOOD
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2021-09-09
Date of Test: 2021-09-09 to 2021-09-11
Date of Issue: 2021-10-11

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



Kobe Jian
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-10-11		Original

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



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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 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

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

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

Remark:

Model No.: DRV-A601W

This test report (Ref. No.: GZCR210802092301) is only valid with the original test report (Ref. No.: SZEM190801797502).

According to the declaration from the applicant, the model in this report and model in original report were identical, only difference on that the model in this report updated the crystal oscillator of main board.

EPSON, Aker version crystal oscillator have the same basic function as the original crystal oscillator The difference between EPSON, Aker version crystal oscillator and original version is that the supplier different only, all the specification are the same.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Conducted Peak Output Power, Conducted Spurious Emissions, Radiated Spurious Emissions were fully retested on model DRV-A601W and shown the data in this report, other tests please refer to original report SZEM190801797502.



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4 General Information

4.1 Details of E.U.T.

Power supply: Camera input: DC5V/2A
 Car charger input: DC12V/24V, 2A
 Car charger output: DC5V/2A

Cable(s): Car charger cable: 4m unshielded cable with a ferrite core
 USB cable: 1.2m shielded cable with two ferrite cores

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: 2dBi

4.2 Description of Support Units

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



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m); ±4.46dB (10m)
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)
<p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results</p> <ul style="list-style-type: none"> – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. 	



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

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

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

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

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

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

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

- **CBTL (Lab Code: TL129)**

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



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
				2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

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

Radiated Spurious Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07



2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2020-09-09	2021-09-08
				2021-09-08	2022-09-07

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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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 11.9.1.3
 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: 23.3 °C Humidity: 50.1 % RH Atmospheric Pressure: 1010 mbar

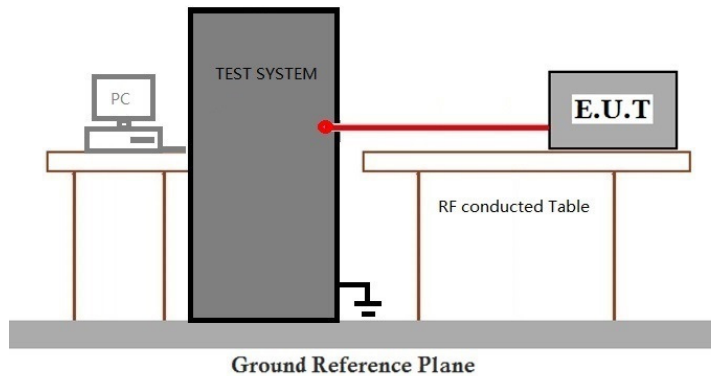
6.1.2 Test Mode Description

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). Only the data of worst case is recorded in the report. (for Aker Krystal oscillator)
Final test	04	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). Only the data of worst case is recorded in the report. (for EPSON Krystal oscillator)



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6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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6.2 Conducted Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.2.1 E.U.T. Operation

Operating Environment:

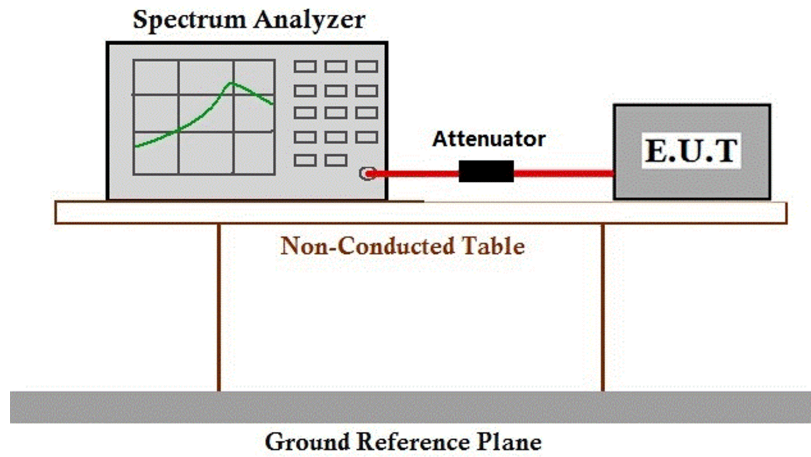
Temperature: 23.3 °C Humidity: 50.1 % RH Atmospheric Pressure: 1010 mbar

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). Only the data of worst case is recorded in the report. (for Aker Krystal oscillator)
Final test	04	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). Only the data of worst case is recorded in the report. (for EPSON Krystal oscillator)



6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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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 6.4,6.5,6.6
 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.

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.1 °C Humidity: 50.2 % 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). Only the data of worst case is recorded in the report. (for Aker Krystal oscillator)
Final test	04	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). Only the data of worst case is recorded in the report. (for EPSON Krystal oscillator)

6.3.3 Test Setup Diagram



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 No.198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn
 Guangzhou Branch Testing Center EEC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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

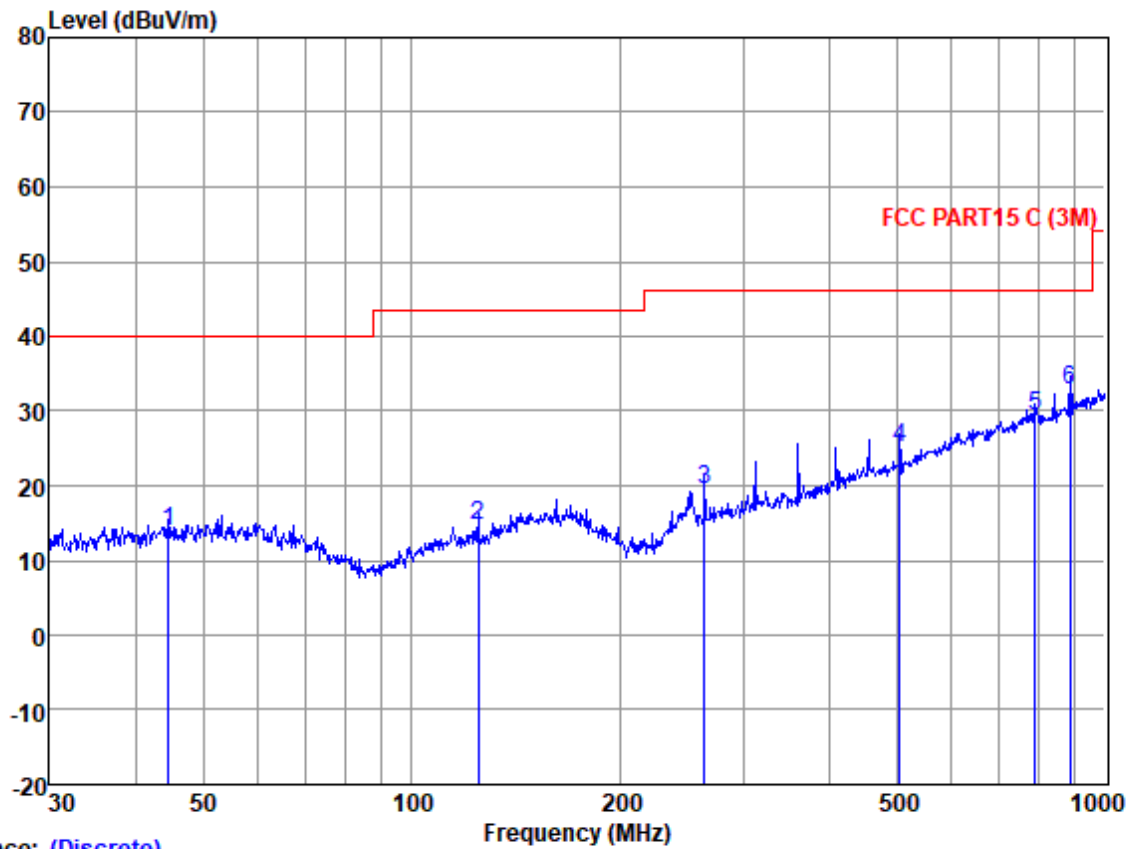
Remark:

- 1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 1 GHz, 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.



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Test Mode: 00



Trace: (Discrete)

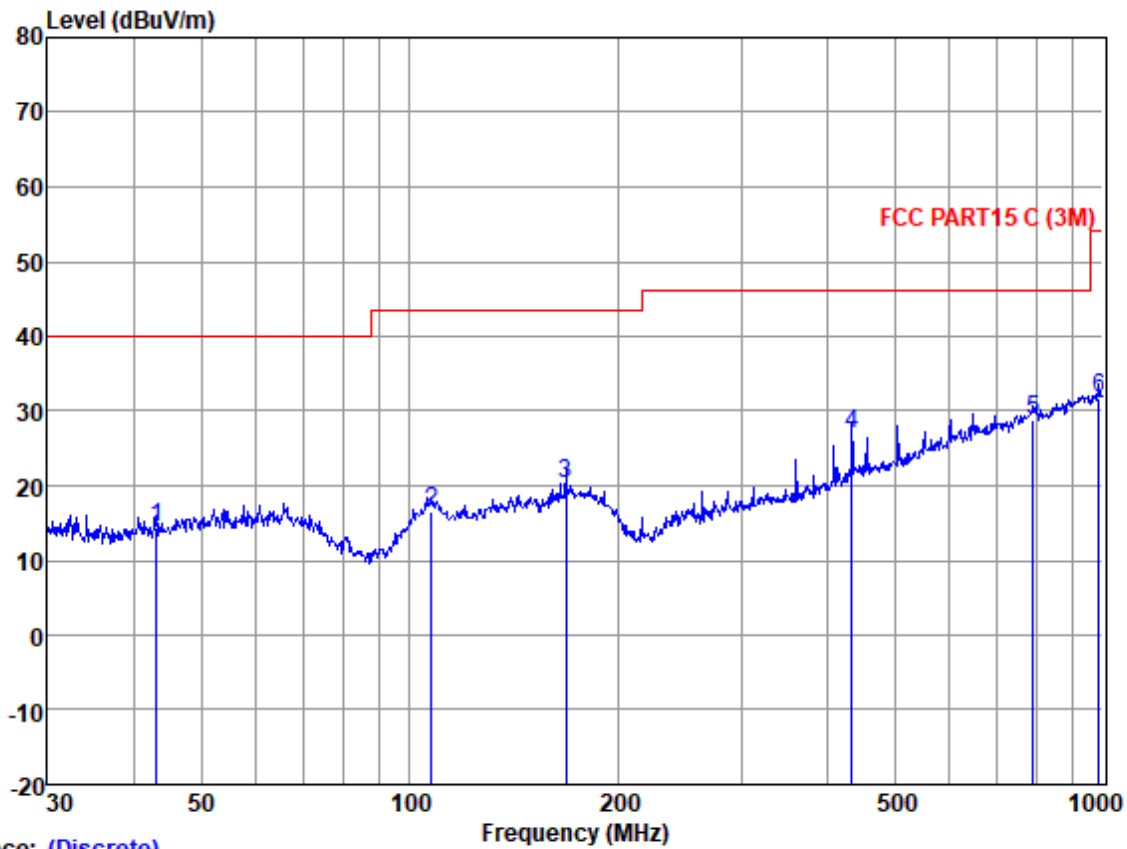
Site : SGS
 Condition : FCC PART15 C (3M)
 Job :
 Model :
 Power :
 Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	44.59	25.96	13.83	1.12	27.17	13.74	40.00	-26.26	HORIZONTAL	QP
2	124.57	28.20	11.45	1.91	27.01	14.55	43.50	-28.95	HORIZONTAL	QP
3	263.82	30.64	12.37	3.00	26.59	19.42	46.00	-26.58	HORIZONTAL	QP
4	504.71	30.64	18.00	4.43	27.99	25.08	46.00	-20.92	HORIZONTAL	QP
5	793.40	28.60	22.53	6.14	28.04	29.23	46.00	-16.77	HORIZONTAL	QP
6	890.73	30.63	23.10	6.86	27.86	32.73	46.00	-13.27	HORIZONTAL	QP



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Test Mode: 00



Trace: (Discrete)

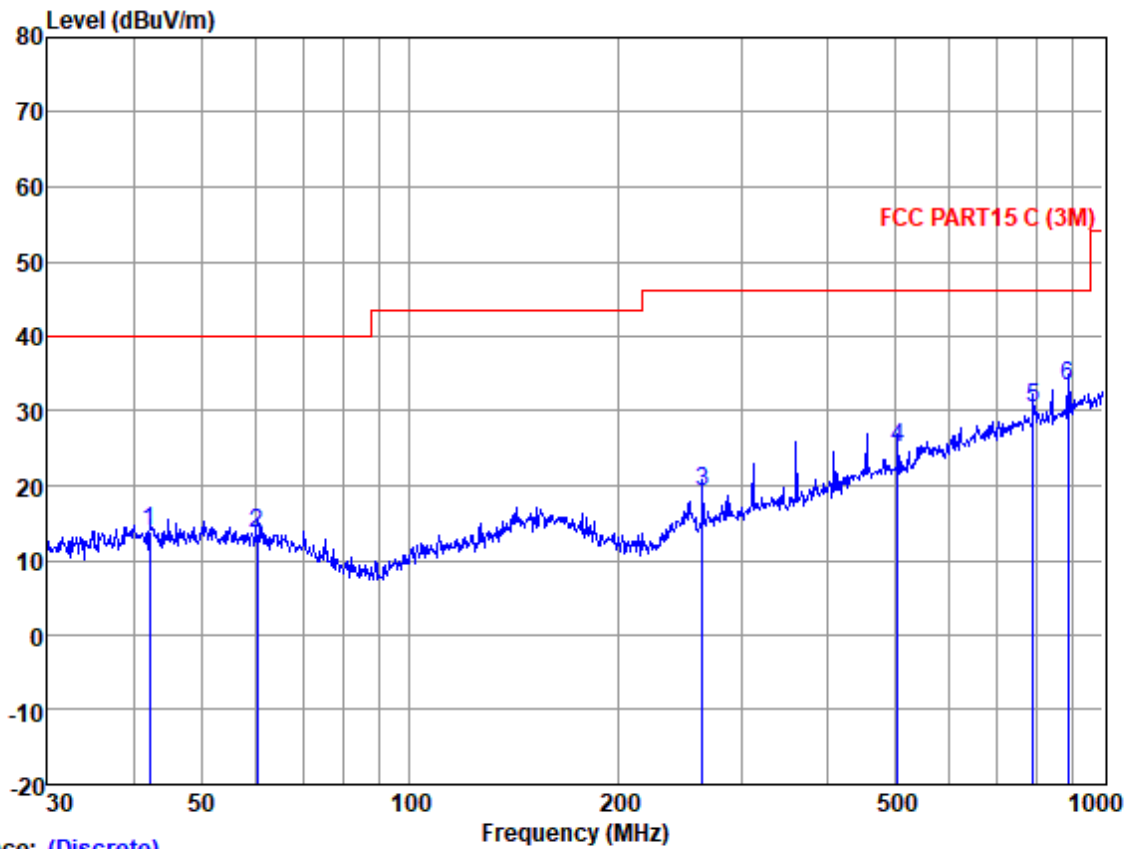
Site : SGS
 Condition : FCC PART15 C (3M)
 Job :
 Model :
 Power :
 Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	43.05	26.57	13.76	1.11	27.17	14.27	40.00	-25.73	VERTICAL	QP
2	107.51	31.55	10.25	1.78	27.06	16.52	43.50	-26.98	VERTICAL	QP
3	167.82	31.30	13.30	2.38	26.78	20.20	43.50	-23.30	VERTICAL	QP
4	434.07	33.40	16.85	4.09	27.53	26.81	46.00	-19.19	VERTICAL	QP
5	793.40	28.07	22.53	6.14	28.04	28.70	46.00	-17.30	VERTICAL	QP
6	986.07	27.81	24.17	7.37	27.68	31.67	54.00	-22.33	VERTICAL	QP



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Test Mode: 04



Trace: (Discrete)

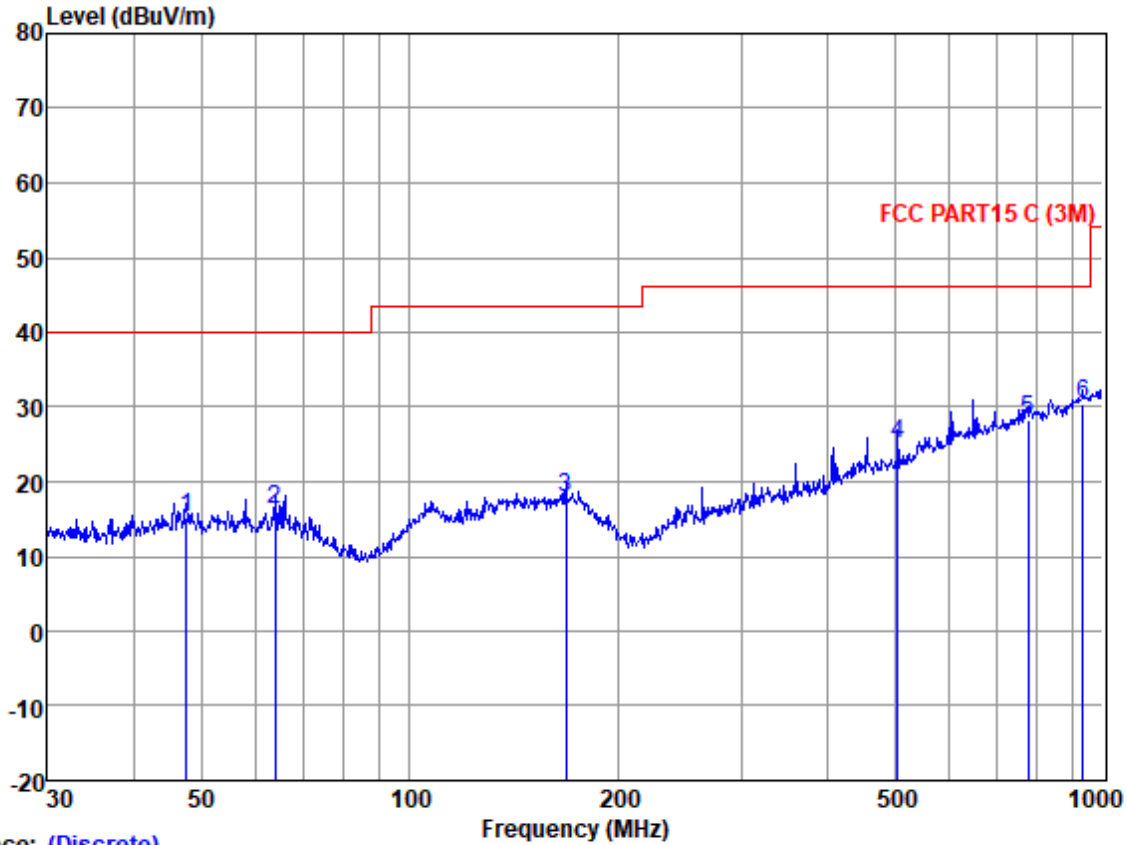
Site : SGS
 Condition : FCC PART15 C (3M)
 Job :
 Model :
 Power :
 Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	42.15	26.11	13.71	1.11	27.17	13.76	40.00	-26.24	HORIZONTAL	QP
2	60.28	26.25	13.37	1.26	27.16	13.72	40.00	-26.28	HORIZONTAL	QP
3	263.82	30.29	12.37	3.00	26.59	19.07	46.00	-26.93	HORIZONTAL	QP
4	504.71	30.74	18.00	4.43	27.99	25.18	46.00	-20.82	HORIZONTAL	QP
5	793.40	29.73	22.53	6.14	28.04	30.36	46.00	-15.64	HORIZONTAL	QP
6	890.73	31.11	23.10	6.86	27.86	33.21	46.00	-12.79	HORIZONTAL	QP



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Test Mode: 04



Trace: (Discrete)

Site : SGS
 Condition : FCC PART15 C (3M)
 Job :
 Model :
 Power :
 Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	47.66	27.34	13.99	1.13	27.17	15.29	40.00	-24.71	VERTICAL	QP
2	63.98	29.21	12.90	1.32	27.15	16.28	40.00	-23.72	VERTICAL	QP
3	167.82	29.09	13.30	2.38	26.78	17.99	43.50	-25.51	VERTICAL	QP
4	504.71	30.68	18.00	4.43	27.99	25.12	46.00	-20.88	VERTICAL	QP
5	779.61	27.92	22.30	6.11	28.05	28.28	46.00	-17.72	VERTICAL	QP
6	935.55	27.25	23.80	7.06	27.78	30.33	46.00	-15.67	VERTICAL	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 6.4,6.5,6.6
 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.

6.4.1 E.U.T. Operation

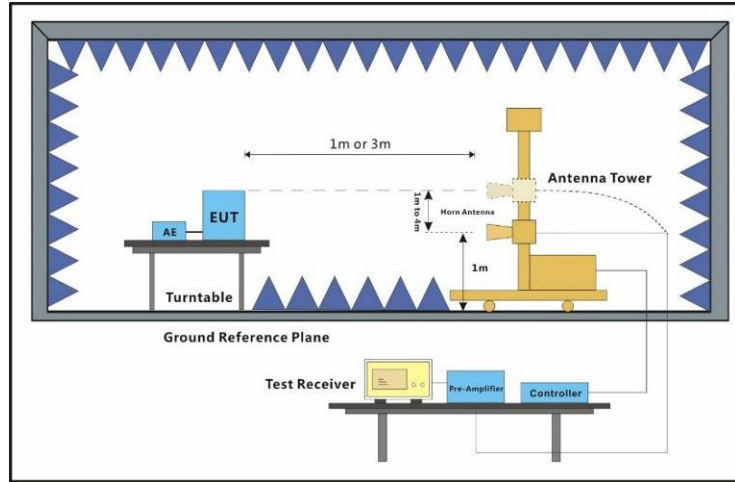
Operating Environment:
 Temperature: 24.2 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

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). Only the data of worst case is recorded in the report. (for Aker Krystal oscillator)
Final test	04	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). Only the data of worst case is recorded in the report. (for EPSON Krystal oscillator)



6.4.3 Test Setup Diagram



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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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

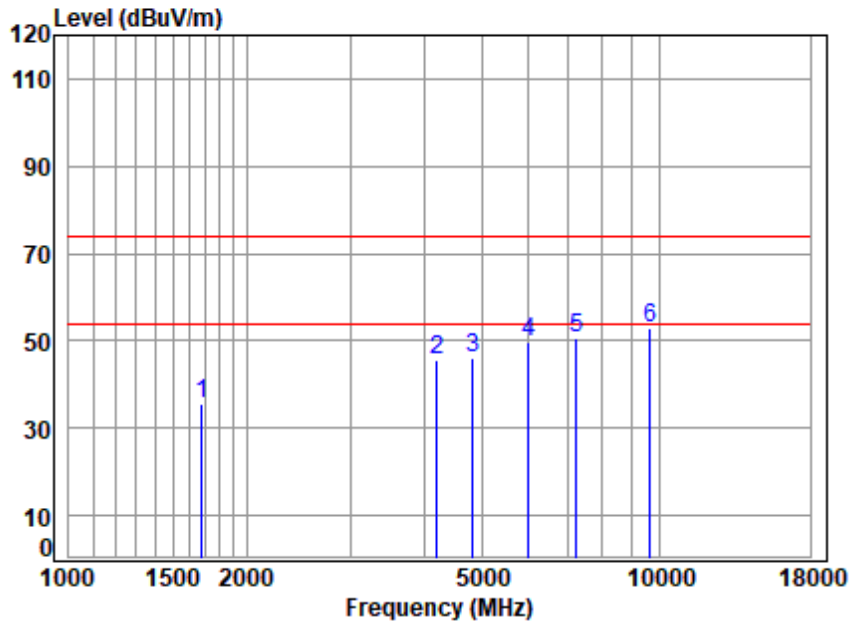
2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) 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.



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



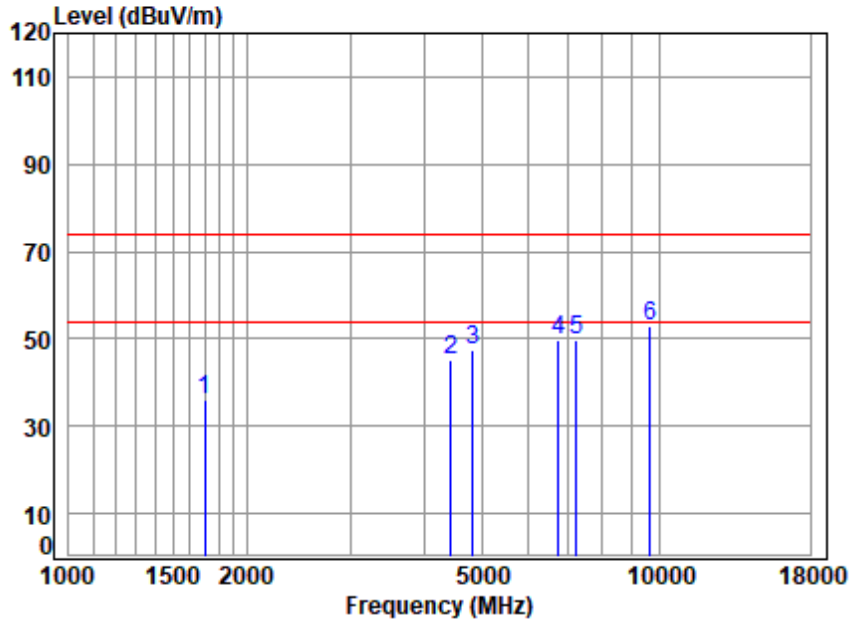
Site : chamber
Condition: 3m HORIZONTAL
Job No : 21208AT/21209AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1682.477	3.42	26.62	40.05	45.42	74.00	-38.59	peak
2	4193.872	6.47	32.76	41.59	47.92	74.00	-28.44	peak
3	4824.000	7.12	33.66	42.16	47.52	74.00	-27.86	peak
4	6001.626	8.26	34.60	42.40	49.05	74.00	-24.49	peak
5	7236.000	8.77	35.69	41.48	47.66	74.00	-23.36	peak
6	9648.000	10.79	37.36	37.69	42.35	74.00	-21.19	peak



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



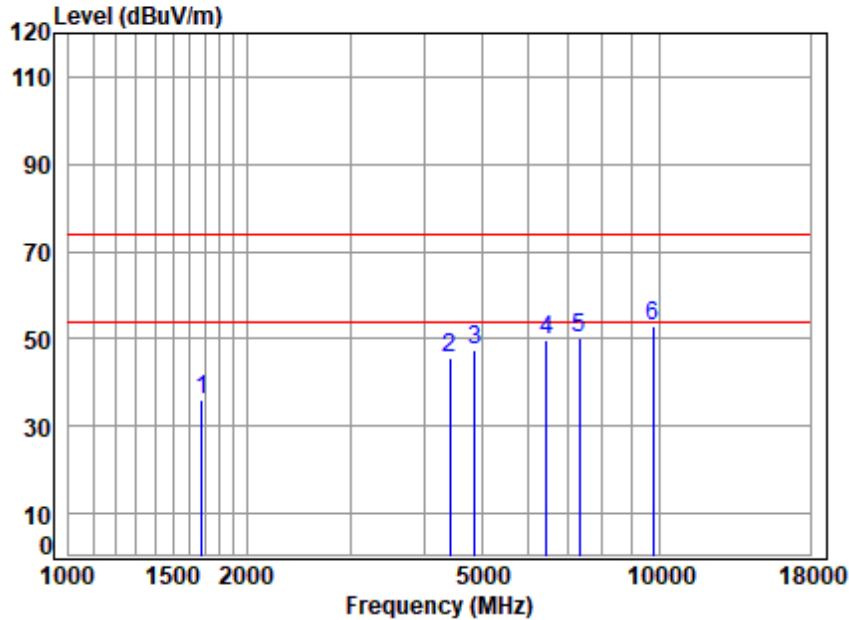
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1702.042	3.43	26.71	40.06	46.15	36.23	74.00	-37.77 peak
2	4443.453	6.71	32.96	41.82	47.38	45.23	74.00	-28.77 peak
3	4824.000	7.12	33.66	42.16	48.90	47.52	74.00	-26.48 peak
4	6737.207	8.41	35.04	41.87	47.95	49.53	74.00	-24.47 peak
5	7236.000	8.77	35.69	41.48	46.85	49.83	74.00	-24.17 peak
6	9648.000	10.79	37.36	37.69	42.66	53.12	74.00	-20.88 peak



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



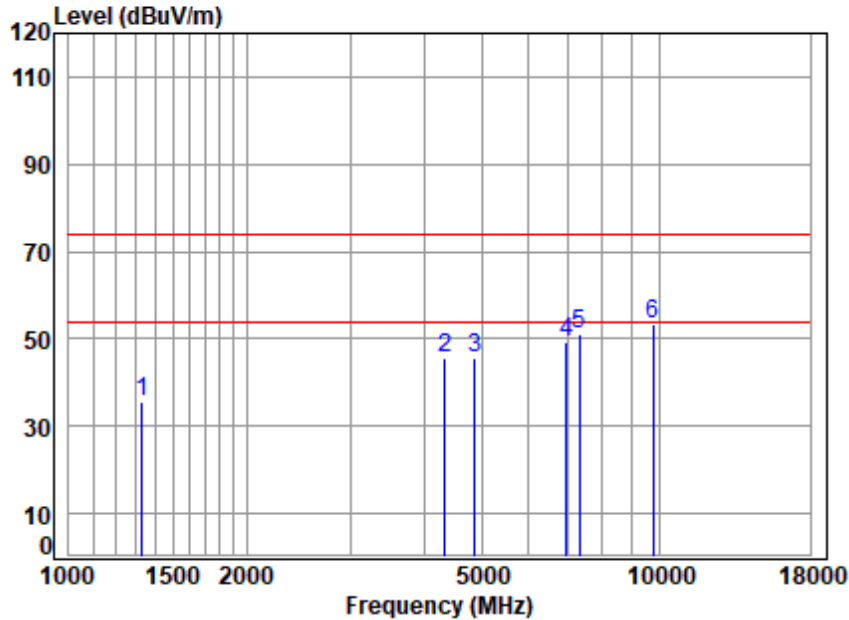
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1677.621	3.41	26.59	40.05	46.14	36.09	74.00	-37.91 peak
2	4417.841	6.68	32.94	41.80	47.59	45.41	74.00	-28.59 peak
3	4874.000	7.17	33.76	42.20	48.53	47.26	74.00	-26.74 peak
4	6451.353	8.28	34.60	42.07	48.87	49.68	74.00	-24.32 peak
5	7311.000	8.84	35.75	41.41	46.95	50.13	74.00	-23.87 peak
6	9748.000	10.76	37.40	37.52	42.33	52.97	74.00	-21.03 peak



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



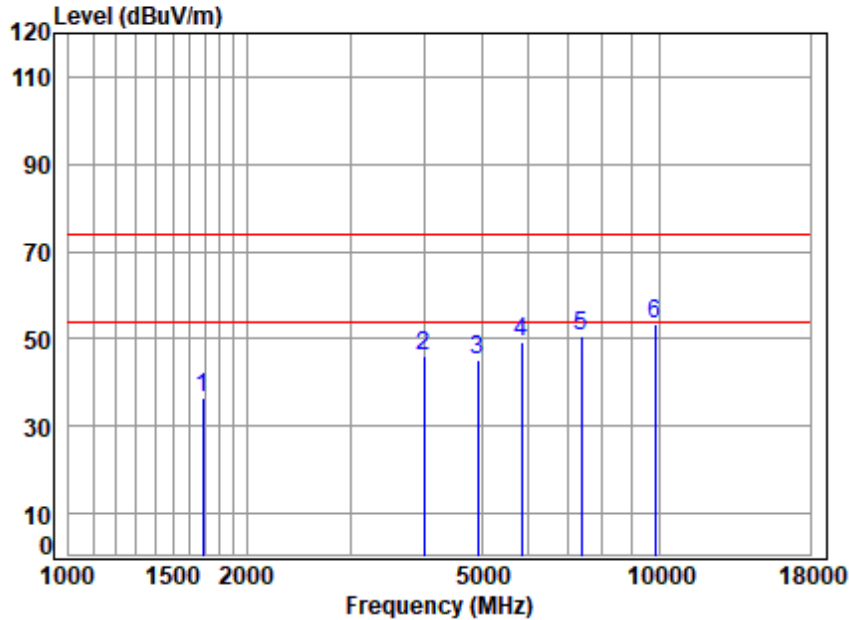
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1331.288	3.00	25.38	39.85	46.94	35.47	74.00	-38.53 peak
2	4329.354	6.60	32.87	41.72	47.74	45.49	74.00	-28.51 peak
3	4874.000	7.17	33.76	42.20	46.85	45.58	74.00	-28.42 peak
4	6954.852	8.52	35.42	41.73	47.12	49.33	74.00	-24.67 peak
5	7311.000	8.84	35.75	41.41	47.99	51.17	74.00	-22.83 peak
6	9748.000	10.76	37.40	37.52	42.62	53.26	74.00	-20.74 peak



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



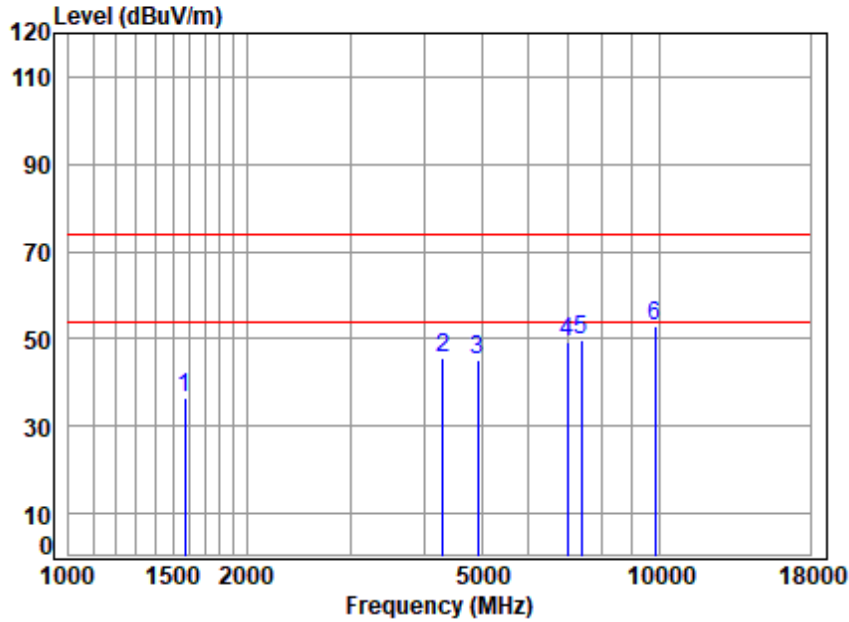
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	3.42	26.64	40.05	46.43	36.44	74.00	-37.56	peak
2	6.27	32.59	41.40	48.56	46.02	74.00	-27.98	peak
3	7.22	33.85	42.24	46.40	45.23	74.00	-28.77	peak
4	8.24	34.48	42.39	48.74	49.07	74.00	-24.93	peak
5	8.91	35.81	41.34	47.16	50.54	74.00	-23.46	peak
6	10.73	37.44	37.35	42.60	53.42	74.00	-20.58	peak



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



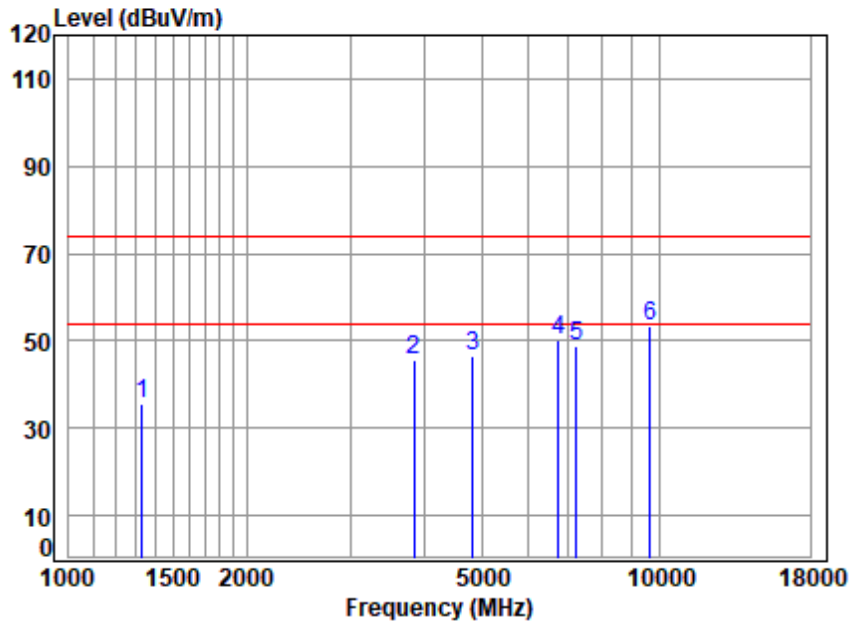
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1574.265	3.33	26.09	39.99	46.98	36.41	74.00	-37.59 peak
2	4304.400	6.58	32.85	41.70	47.68	45.41	74.00	-28.59 peak
3	4924.000	7.22	33.85	42.24	46.53	45.36	74.00	-28.64 peak
4	6995.172	8.54	35.49	41.70	46.80	49.13	74.00	-24.87 peak
5	7386.000	8.91	35.81	41.34	46.56	49.94	74.00	-24.06 peak
6	9848.000	10.73	37.44	37.35	41.89	52.71	74.00	-21.29 peak



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



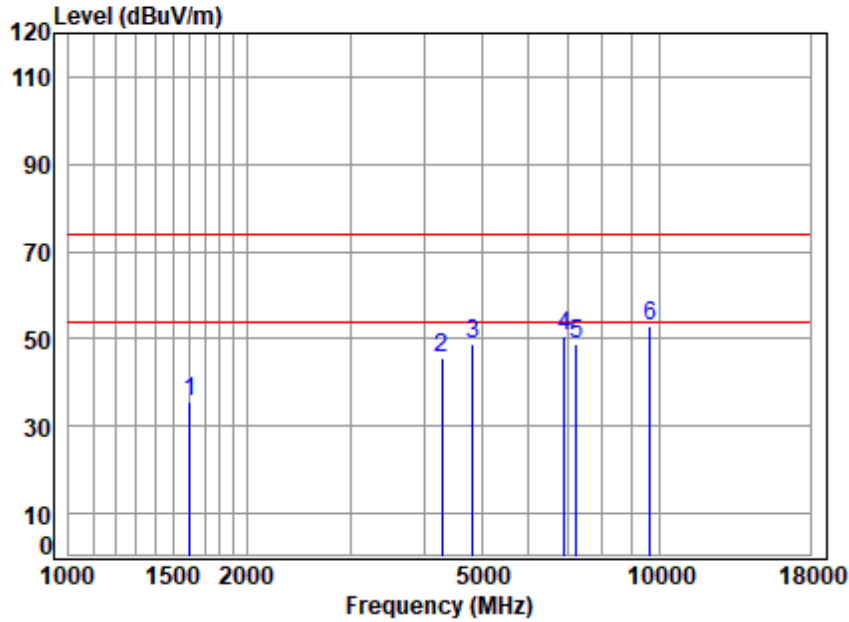
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1331.288	3.00	25.38	39.85	46.90	35.43	74.00	-38.57 peak
2	3845.537	6.06	32.33	41.30	48.56	45.65	74.00	-28.35 peak
3	4824.000	7.12	33.66	42.16	47.86	46.48	74.00	-27.52 peak
4	6737.207	8.41	35.04	41.87	48.46	50.04	74.00	-23.96 peak
5	7236.000	8.77	35.69	41.48	45.78	48.76	74.00	-25.24 peak
6	9648.000	10.79	37.36	37.69	42.85	53.31	74.00	-20.69 peak



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



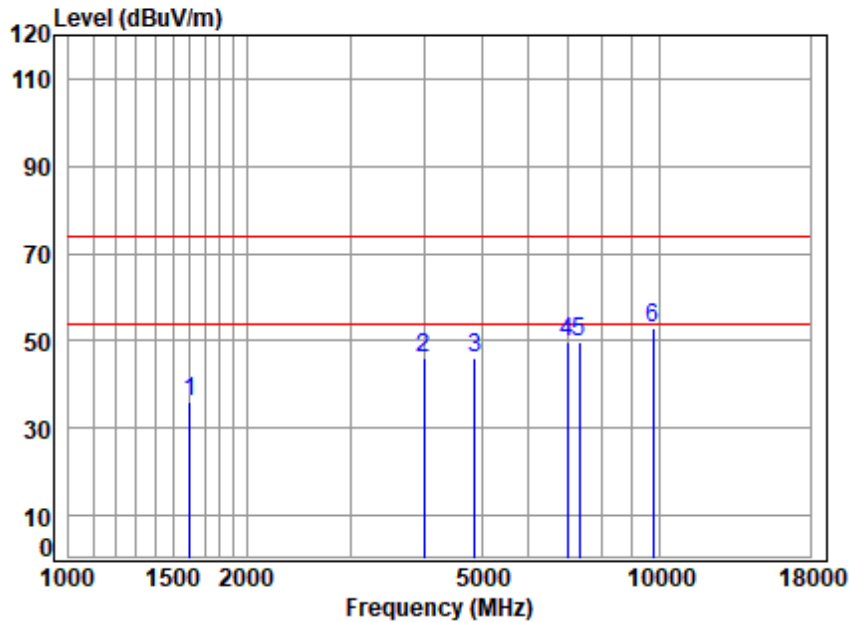
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1606.441	3.35	26.25	40.01	46.08	35.67	74.00	-38.33 peak
2	4291.977	6.57	32.84	41.68	47.82	45.55	74.00	-28.45 peak
3	4824.000	7.12	33.66	42.16	50.15	48.77	74.00	-25.23 peak
4	6914.763	8.50	35.35	41.76	48.36	50.45	74.00	-23.55 peak
5	7236.000	8.77	35.69	41.48	45.83	48.81	74.00	-25.19 peak
6	9648.000	10.79	37.36	37.69	42.39	52.85	74.00	-21.15 peak



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



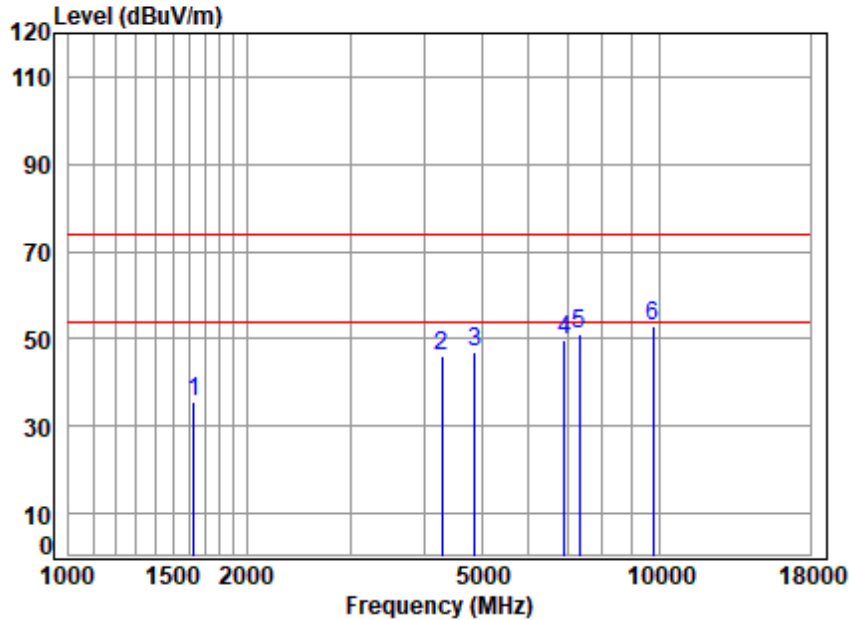
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1606.441	3.35	26.25	40.01	46.45	36.04	74.00	-37.96 peak
2	3992.781	6.27	32.59	41.40	48.50	45.96	74.00	-28.04 peak
3	4874.000	7.17	33.76	42.20	47.28	46.01	74.00	-27.99 peak
4	6974.982	8.53	35.46	41.72	47.32	49.59	74.00	-24.41 peak
5	7311.000	8.84	35.75	41.41	46.65	49.83	74.00	-24.17 peak
6	9748.000	10.76	37.40	37.52	42.40	53.04	74.00	-20.96 peak



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



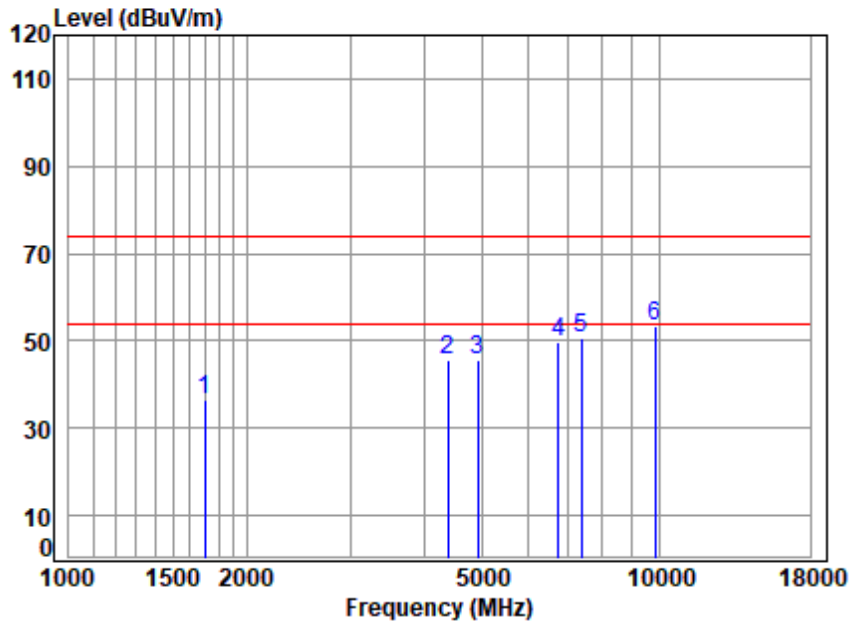
Site : chamber
Condition: 3m VERTICAL
Job No : 21208AT/21209AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	3.37	26.36	40.02	46.01	35.72	74.00	-38.28 peak
2	4291.977	6.57	32.84	41.68	48.38	46.11	74.00	-27.89 peak
3	4874.000	7.17	33.76	42.20	48.09	46.82	74.00	-27.18 peak
4	6894.806	8.49	35.32	41.77	47.87	49.91	74.00	-24.09 peak
5	7311.000	8.84	35.75	41.41	47.77	50.95	74.00	-23.05 peak
6	9748.000	10.76	37.40	37.52	42.28	52.92	74.00	-21.08 peak



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



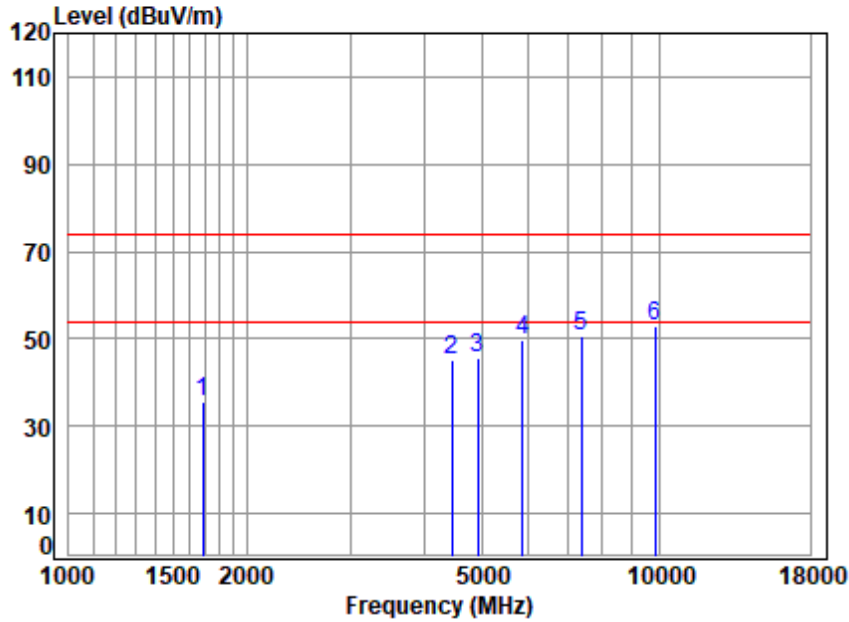
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1697.129	3.43	26.69	40.06	46.30	36.36	74.00	-37.64 peak
2	4392.376	6.66	32.92	41.78	48.02	45.82	74.00	-28.18 peak
3	4924.000	7.22	33.85	42.24	46.99	45.82	74.00	-28.18 peak
4	6737.207	8.41	35.04	41.87	48.22	49.80	74.00	-24.20 peak
5	7386.000	8.91	35.81	41.34	47.31	50.69	74.00	-23.31 peak
6	9848.000	10.73	37.44	37.35	42.56	53.38	74.00	-20.62 peak



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



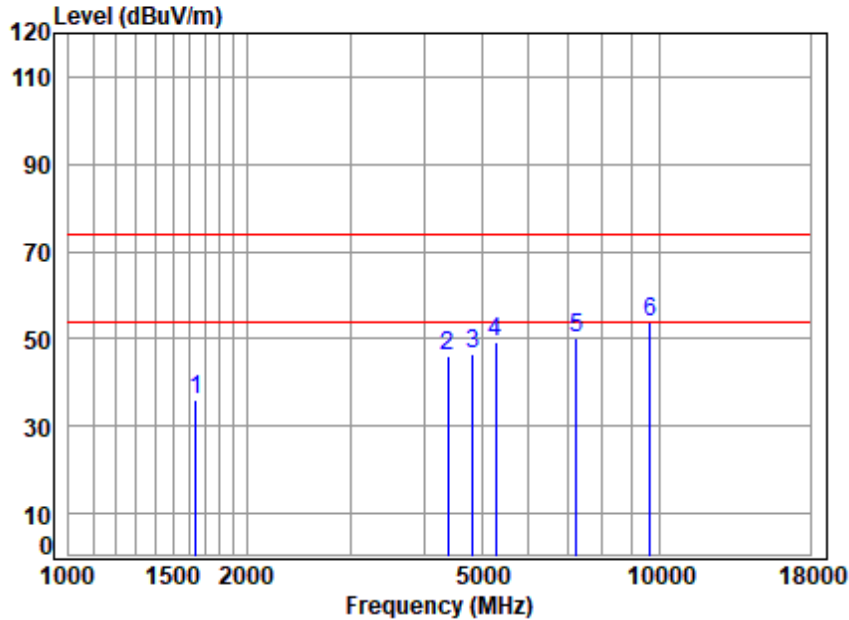
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1687.347	3.42	26.64	40.05	45.74	35.75	74.00	-38.25 peak
2	4456.315	6.72	32.97	41.84	47.48	45.33	74.00	-28.67 peak
3	4924.000	7.22	33.85	42.24	46.74	45.57	74.00	-28.43 peak
4	5864.443	8.24	34.49	42.39	49.21	49.55	74.00	-24.45 peak
5	7386.000	8.91	35.81	41.34	47.18	50.56	74.00	-23.44 peak
6	9848.000	10.73	37.44	37.35	42.15	52.97	74.00	-21.03 peak



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



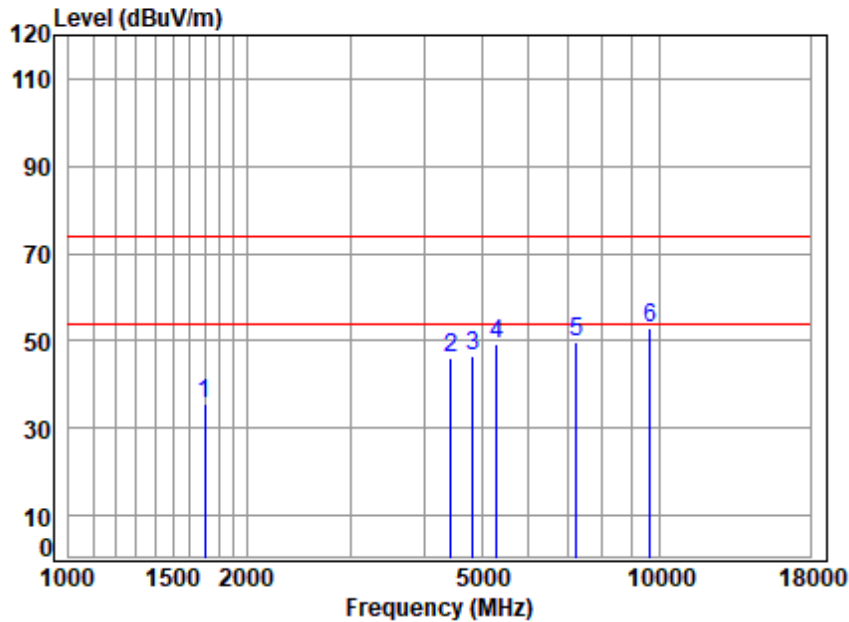
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1644.019	3.38	26.43	40.03	46.04	35.82	74.00	-38.18 peak
2	4379.699	6.65	32.91	41.77	48.36	46.15	74.00	-27.85 peak
3	4824.000	7.12	33.66	42.16	47.97	46.59	74.00	-27.41 peak
4	5284.902	7.81	34.12	42.33	49.64	49.24	74.00	-24.76 peak
5	7236.000	8.77	35.69	41.48	47.12	50.10	74.00	-23.90 peak
6	9648.000	10.79	37.36	37.69	43.16	53.62	74.00	-20.38 peak



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



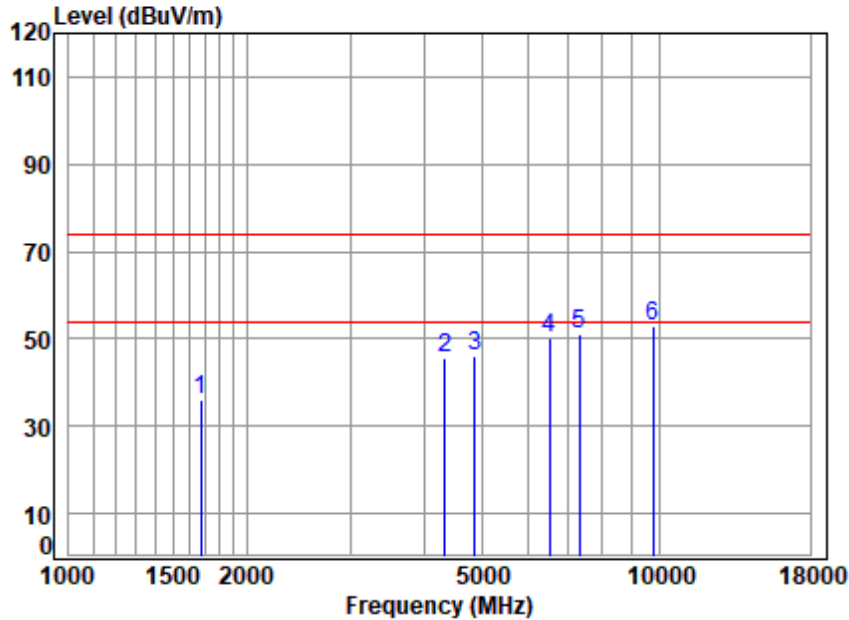
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1697.129	3.43	26.69	40.06	45.64	35.70	74.00	-38.30 peak
2	4443.453	6.71	32.96	41.82	48.15	46.00	74.00	-28.00 peak
3	4824.000	7.12	33.66	42.16	47.91	46.53	74.00	-27.47 peak
4	5300.200	7.84	34.12	42.33	49.86	49.49	74.00	-24.51 peak
5	7236.000	8.77	35.69	41.48	46.88	49.86	74.00	-24.14 peak
6	9648.000	10.79	37.36	37.69	42.61	53.07	74.00	-20.93 peak



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



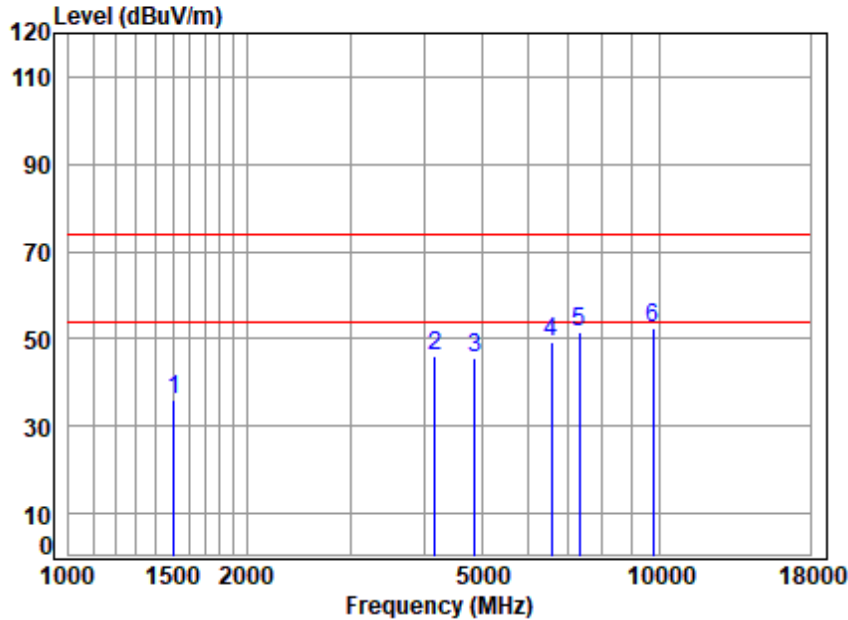
Site : chamber
Condition: 3m HORIZONTAL
Job No : 21208AT/21209AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	3.41	26.57	40.05	45.98	35.91	74.00	-38.09 peak
2	4329.354	6.60	32.87	41.72	47.78	45.53	74.00	-28.47 peak
3	4874.000	7.17	33.76	42.20	47.24	45.97	74.00	-28.03 peak
4	6507.536	8.28	34.61	42.03	49.50	50.36	74.00	-23.64 peak
5	7311.000	8.84	35.75	41.41	48.10	51.28	74.00	-22.72 peak
6	9748.000	10.76	37.40	37.52	42.37	53.01	74.00	-20.99 peak



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



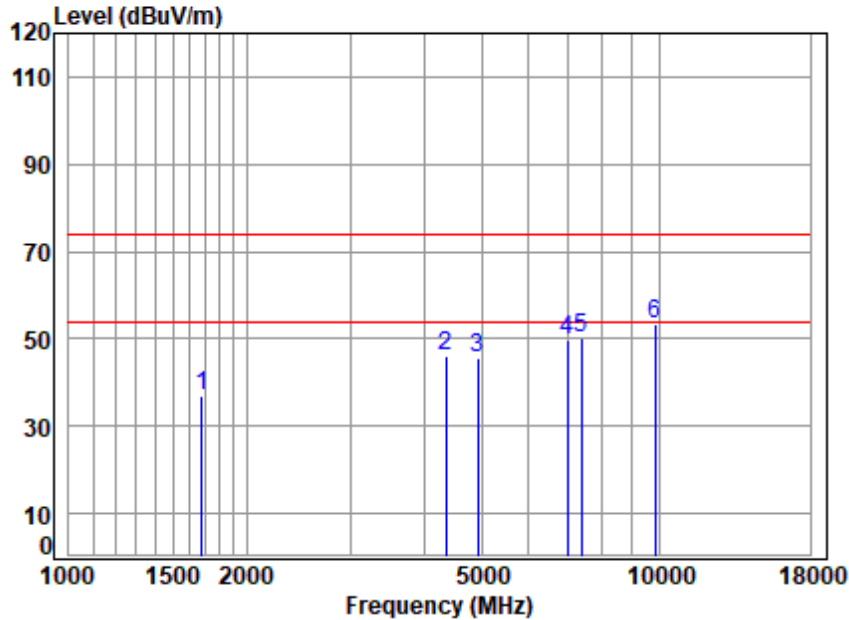
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1507.470	3.27	25.74	39.96	46.81	35.86	74.00	-38.14 peak
2	4169.698	6.45	32.74	41.57	48.49	46.11	74.00	-27.89 peak
3	4874.000	7.17	33.76	42.20	46.69	45.42	74.00	-28.58 peak
4	6564.209	8.31	34.72	41.99	48.45	49.49	74.00	-24.51 peak
5	7311.000	8.84	35.75	41.41	48.18	51.36	74.00	-22.64 peak
6	9748.000	10.76	37.40	37.52	42.04	52.68	74.00	-21.32 peak



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



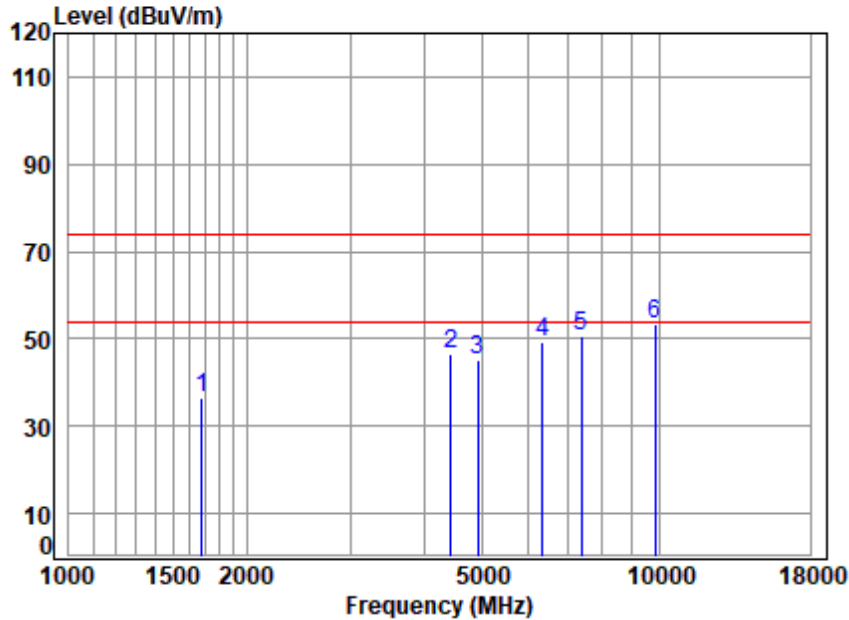
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	3.42	26.62	40.05	46.92	36.91	74.00	-37.09	peak
2	6.63	32.89	41.74	48.26	46.04	74.00	-27.96	peak
3	7.22	33.85	42.24	46.63	45.46	74.00	-28.54	peak
4	8.53	35.46	41.72	47.39	49.66	74.00	-24.34	peak
5	8.91	35.81	41.34	46.60	49.98	74.00	-24.02	peak
6	10.73	37.44	37.35	42.66	53.48	74.00	-20.52	peak



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



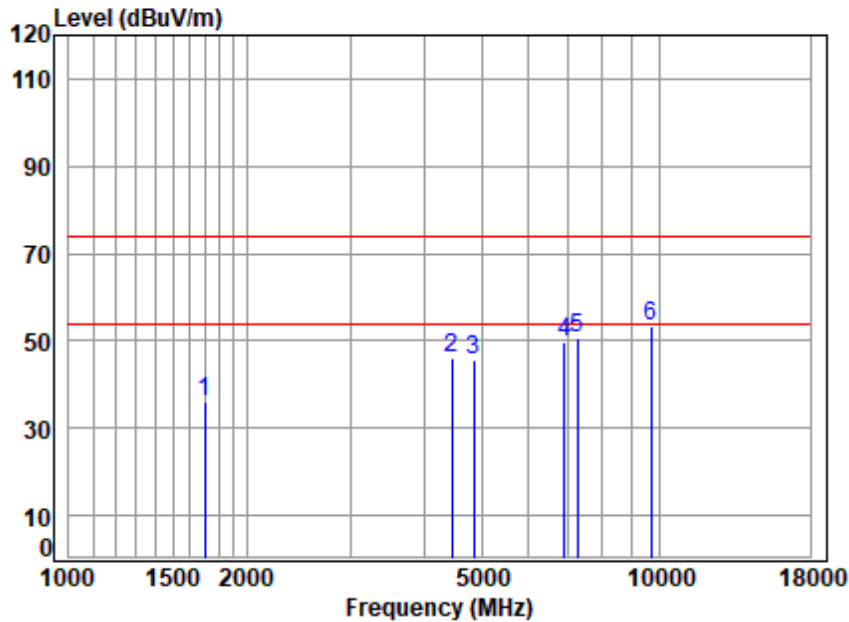
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	3.41	26.59	40.05	46.33	36.28	74.00	-37.72 peak
2	4443.453	6.71	32.96	41.82	48.52	46.37	74.00	-27.63 peak
3	4924.000	7.22	33.85	42.24	46.26	45.09	74.00	-28.91 peak
4	6340.436	8.27	34.60	42.15	48.40	49.12	74.00	-24.88 peak
5	7386.000	8.91	35.81	41.34	47.14	50.52	74.00	-23.48 peak
6	9848.000	10.73	37.44	37.35	42.67	53.49	74.00	-20.51 peak



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



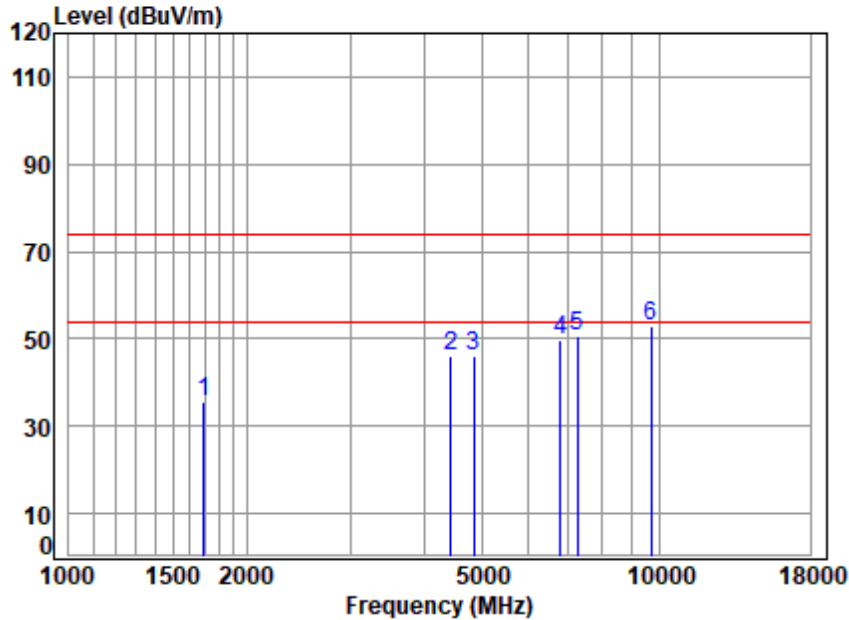
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1697.129	3.43	26.69	40.06	46.11	36.17	74.00	-37.83 peak
2	4456.315	6.72	32.97	41.84	48.18	46.03	74.00	-27.97 peak
3	4844.000	7.14	33.70	42.17	46.78	45.45	74.00	-28.55 peak
4	6894.806	8.49	35.32	41.77	47.73	49.77	74.00	-24.23 peak
5	7266.000	8.79	35.72	41.45	47.36	50.42	74.00	-23.58 peak
6	9688.000	10.78	37.38	37.63	43.06	53.59	74.00	-20.41 peak



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



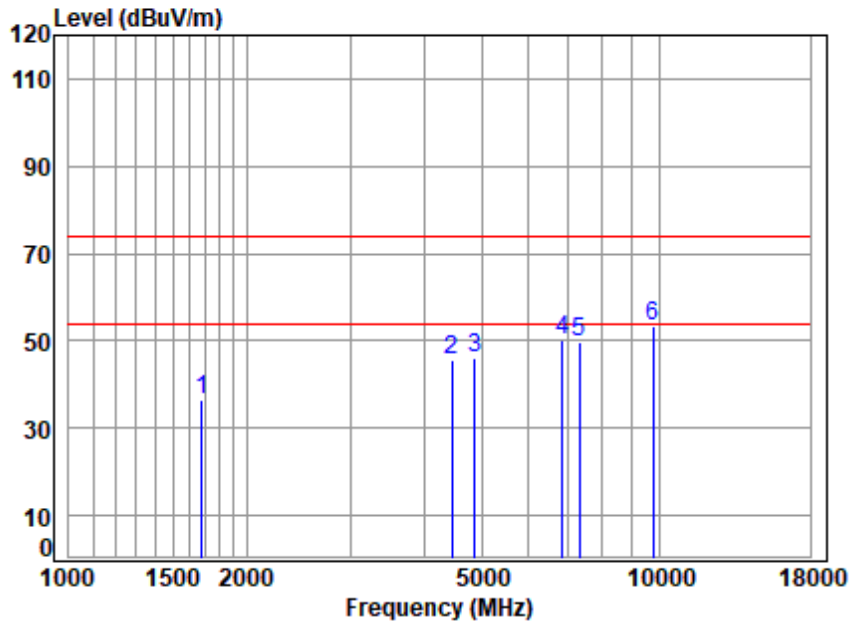
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1692.231	3.42	26.66	40.06	45.76	35.78	74.00	-38.22 peak
2	4430.628	6.70	32.95	41.81	48.45	46.29	74.00	-27.71 peak
3	4844.000	7.14	33.70	42.17	47.51	46.18	74.00	-27.82 peak
4	6795.879	8.44	35.14	41.83	47.88	49.63	74.00	-24.37 peak
5	7266.000	8.79	35.72	41.45	47.49	50.55	74.00	-23.45 peak
6	9688.000	10.78	37.38	37.63	42.50	53.03	74.00	-20.97 peak



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



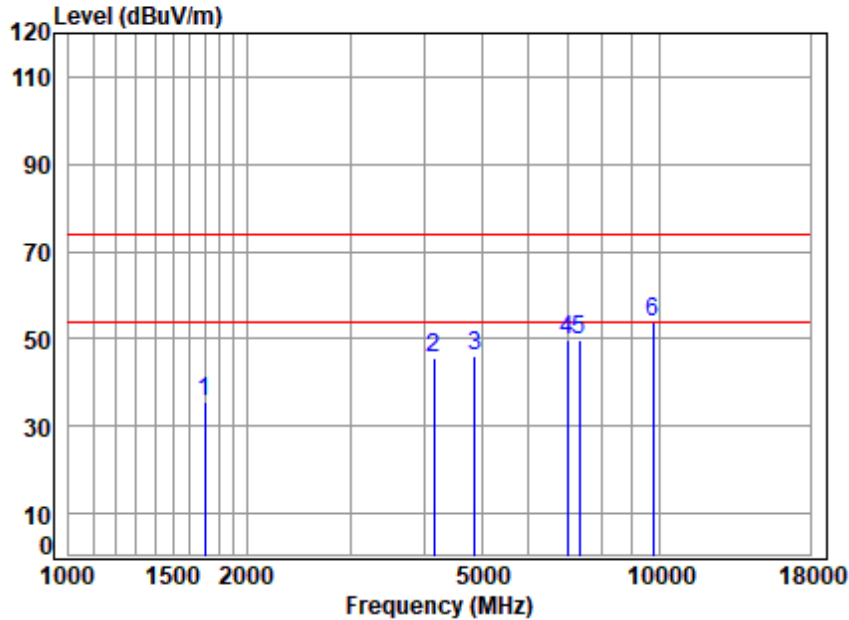
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1682.477	3.42	26.62	40.05	46.57	36.56	74.00	-37.44 peak
2	4456.315	6.72	32.97	41.84	47.89	45.74	74.00	-28.26 peak
3	4874.000	7.17	33.76	42.20	47.31	46.04	74.00	-27.96 peak
4	6855.063	8.47	35.25	41.80	48.43	50.35	74.00	-23.65 peak
5	7311.000	8.84	35.75	41.41	46.72	49.90	74.00	-24.10 peak
6	9748.000	10.76	37.40	37.52	42.64	53.28	74.00	-20.72 peak



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



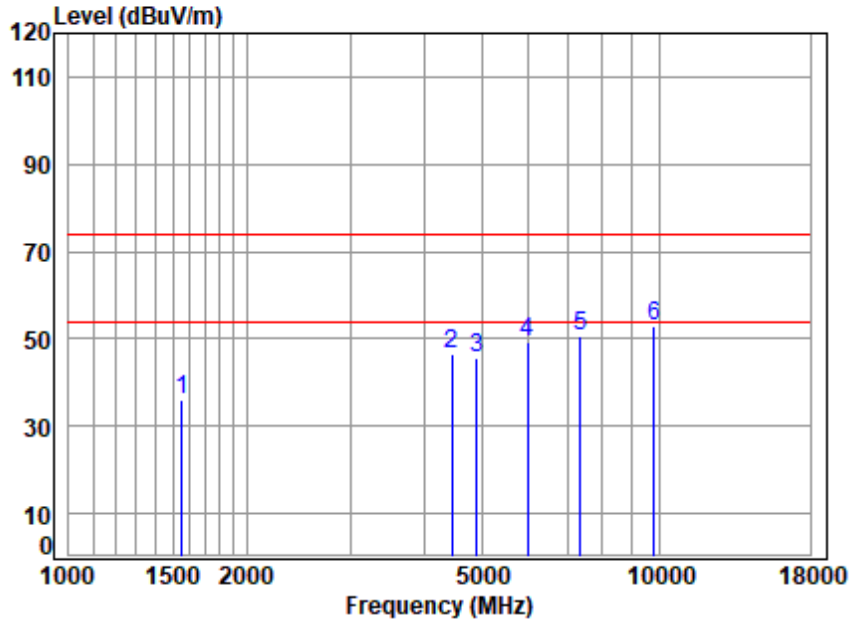
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1702.042	3.43	26.71	40.06	45.59	35.67	74.00	-38.33 peak
2	4157.664	6.44	32.73	41.56	48.04	45.65	74.00	-28.35 peak
3	4874.000	7.17	33.76	42.20	47.56	46.29	74.00	-27.71 peak
4	6974.982	8.53	35.46	41.72	47.54	49.81	74.00	-24.19 peak
5	7311.000	8.84	35.75	41.41	46.78	49.96	74.00	-24.04 peak
6	9748.000	10.76	37.40	37.52	43.02	53.66	74.00	-20.34 peak



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



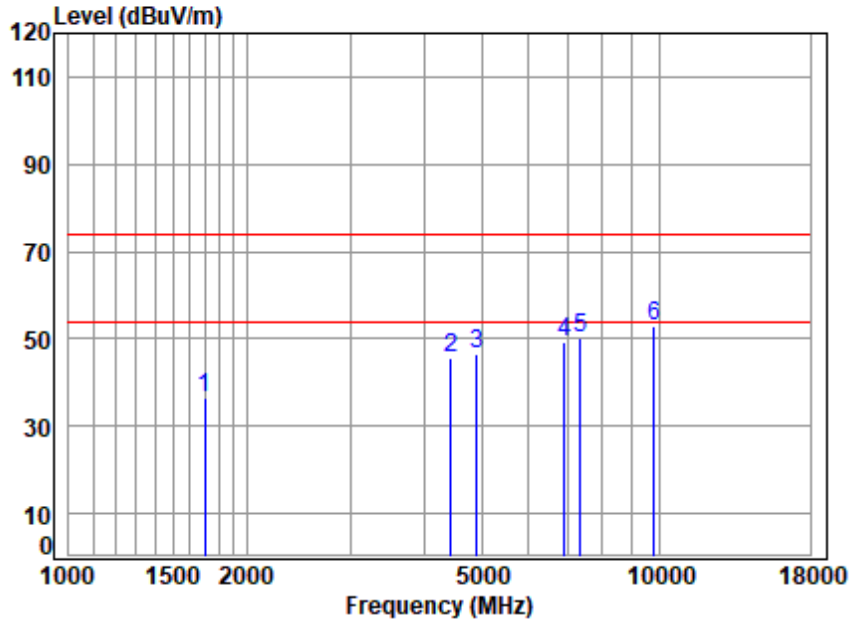
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2452 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1551.677	3.31	25.97	39.98	46.65	35.95	74.00	-38.05 peak
2	4456.315	6.72	32.97	41.84	48.49	46.34	74.00	-27.66 peak
3	4904.000	7.20	33.82	42.22	46.73	45.53	74.00	-28.47 peak
4	5984.305	8.26	34.59	42.40	48.94	49.39	74.00	-24.61 peak
5	7356.000	8.88	35.79	41.37	47.55	50.85	74.00	-23.15 peak
6	9808.000	10.75	37.42	37.42	42.34	53.09	74.00	-20.91 peak



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



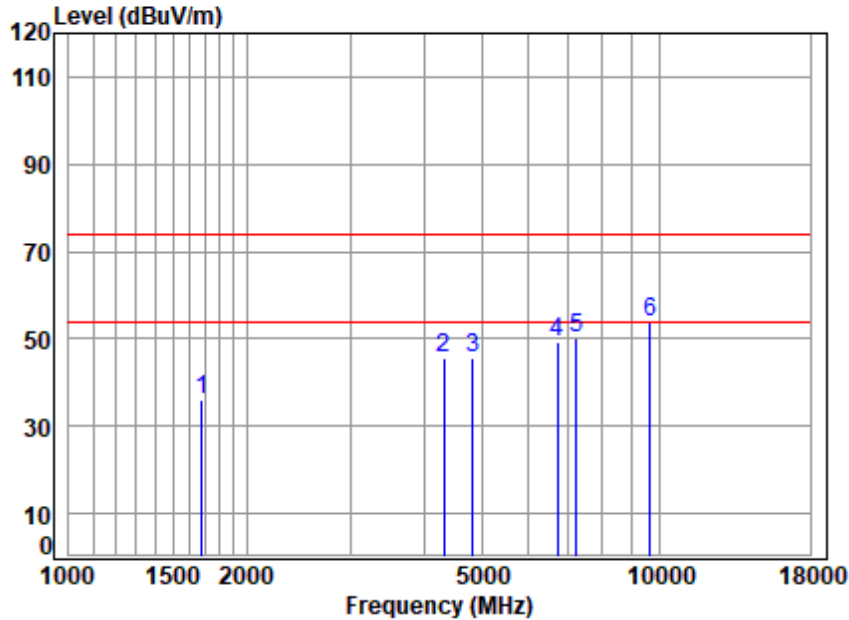
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2452 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1697.129	3.43	26.69	40.06	46.37	36.43	74.00	-37.57 peak
2	4443.453	6.71	32.96	41.82	47.85	45.70	74.00	-28.30 peak
3	4904.000	7.20	33.82	42.22	47.78	46.58	74.00	-27.42 peak
4	6894.806	8.49	35.32	41.77	47.11	49.15	74.00	-24.85 peak
5	7356.000	8.88	35.79	41.37	47.06	50.36	74.00	-23.64 peak
6	9808.000	10.75	37.42	37.42	42.14	52.89	74.00	-21.11 peak



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



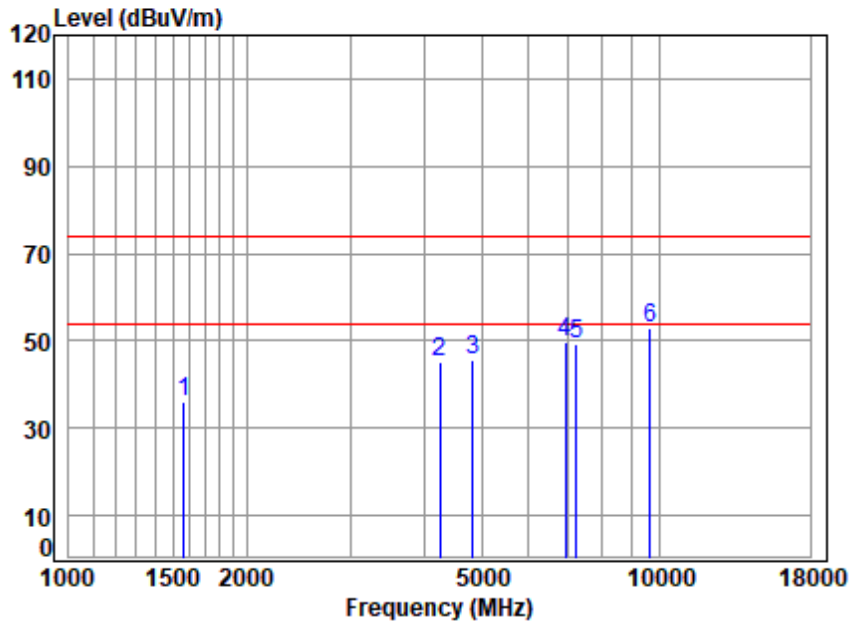
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1677.621	3.41	26.59	40.05	46.07	36.02	74.00	-37.98 peak
2	4316.859	6.59	32.86	41.71	47.81	45.55	74.00	-28.45 peak
3	4824.000	7.12	33.66	42.16	47.17	45.79	74.00	-28.21 peak
4	6717.762	8.40	35.00	41.89	47.58	49.09	74.00	-24.91 peak
5	7236.000	8.77	35.69	41.48	47.29	50.27	74.00	-23.73 peak
6	9648.000	10.79	37.36	37.69	43.21	53.67	74.00	-20.33 peak



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



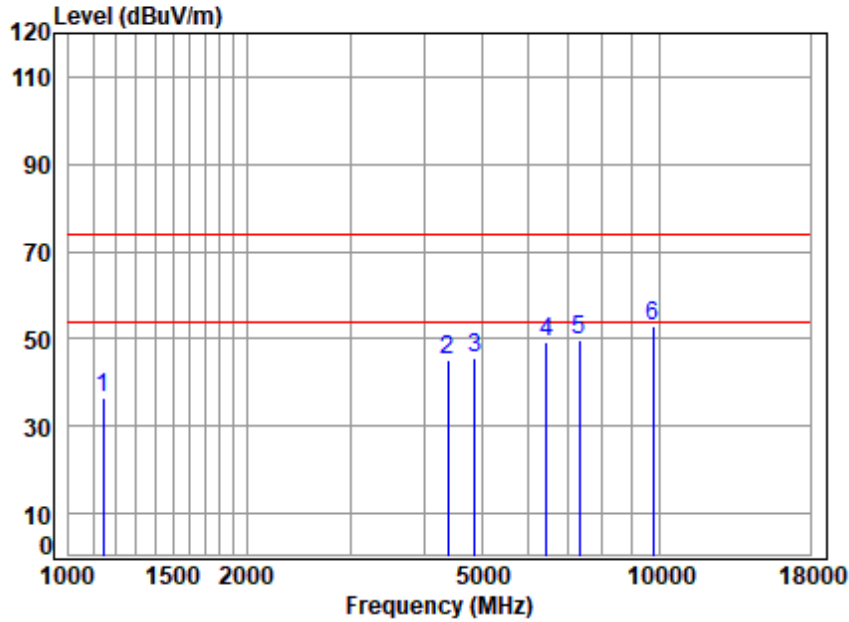
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1569.721	3.32	26.06	39.99	46.48	35.87	74.00	-38.13 peak
2	4242.641	6.52	32.80	41.64	47.68	45.36	74.00	-28.64 peak
3	4824.000	7.12	33.66	42.16	46.84	45.46	74.00	-28.54 peak
4	6934.778	8.51	35.39	41.74	47.48	49.64	74.00	-24.36 peak
5	7236.000	8.77	35.69	41.48	46.27	49.25	74.00	-24.75 peak
6	9648.000	10.79	37.36	37.69	42.64	53.10	74.00	-20.90 peak



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



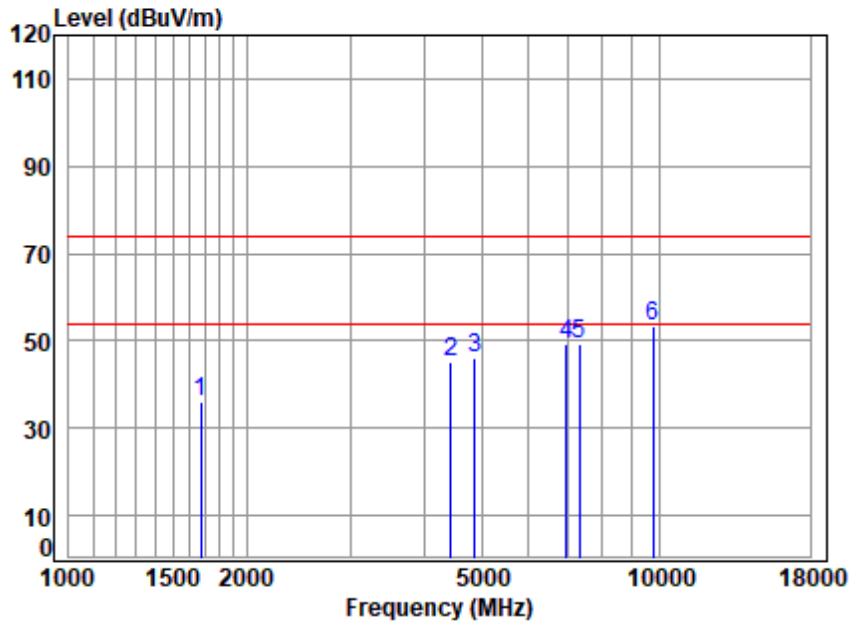
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1142.201	2.66	24.96	39.72	48.50	36.40	74.00	-37.60 peak
2	4392.376	6.66	32.92	41.78	47.48	45.28	74.00	-28.72 peak
3	4874.000	7.17	33.76	42.20	47.00	45.73	74.00	-28.27 peak
4	6432.732	8.28	34.60	42.08	48.48	49.28	74.00	-24.72 peak
5	7311.000	8.84	35.75	41.41	46.77	49.95	74.00	-24.05 peak
6	9748.000	10.76	37.40	37.52	42.33	52.97	74.00	-21.03 peak



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



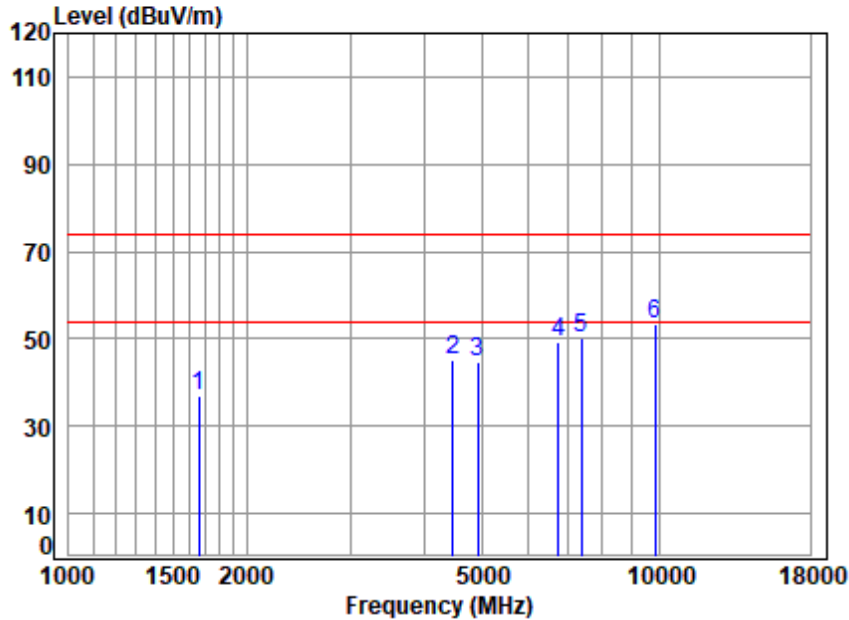
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	3.41	26.57	40.05	46.33	36.26	74.00	-37.74 peak
2	4443.453	6.71	32.96	41.82	47.43	45.28	74.00	-28.72 peak
3	4874.000	7.17	33.76	42.20	47.42	46.15	74.00	-27.85 peak
4	6954.852	8.52	35.42	41.73	46.89	49.10	74.00	-24.90 peak
5	7311.000	8.84	35.75	41.41	46.30	49.48	74.00	-24.52 peak
6	9748.000	10.76	37.40	37.52	42.89	53.53	74.00	-20.47 peak



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



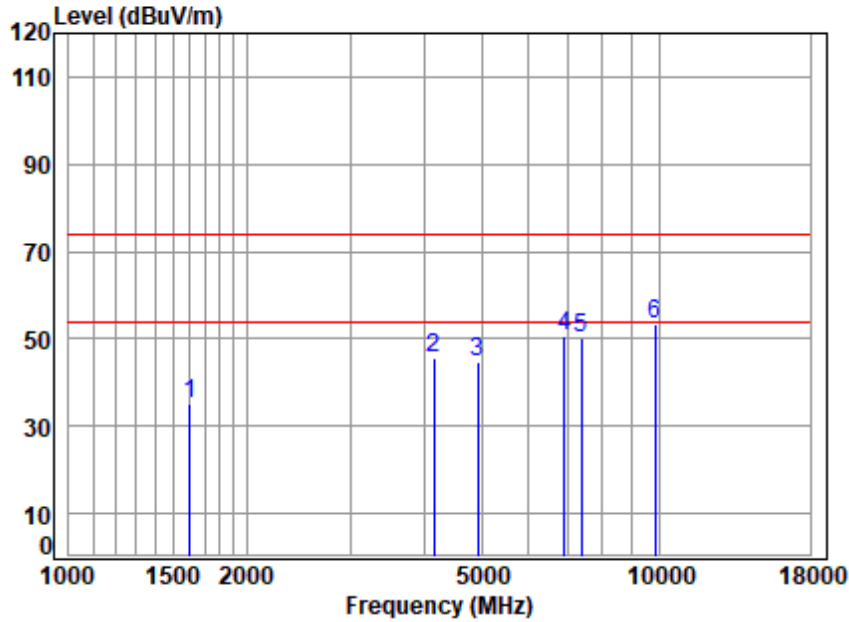
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1658.337	3.40	26.50	40.04	47.17	37.03	74.00	-36.97 peak
2	4469.214	6.73	32.98	41.85	47.31	45.17	74.00	-28.83 peak
3	4924.000	7.22	33.85	42.24	45.75	44.58	74.00	-29.42 peak
4	6737.207	8.41	35.04	41.87	47.74	49.32	74.00	-24.68 peak
5	7386.000	8.91	35.81	41.34	46.62	50.00	74.00	-24.00 peak
6	9848.000	10.73	37.44	37.35	42.73	53.55	74.00	-20.45 peak



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



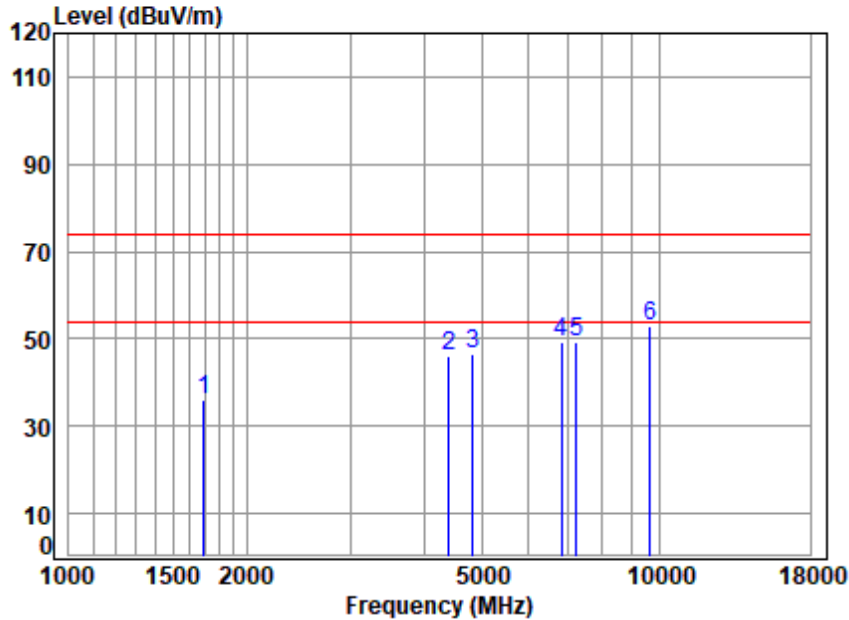
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1606.441	3.35	26.25	40.01	45.60	35.19	74.00	-38.81 peak
2	4157.664	6.44	32.73	41.56	47.89	45.50	74.00	-28.50 peak
3	4924.000	7.22	33.85	42.24	45.97	44.80	74.00	-29.20 peak
4	6894.806	8.49	35.32	41.77	48.58	50.62	74.00	-23.38 peak
5	7386.000	8.91	35.81	41.34	46.91	50.29	74.00	-23.71 peak
6	9848.000	10.73	37.44	37.35	42.57	53.39	74.00	-20.61 peak



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



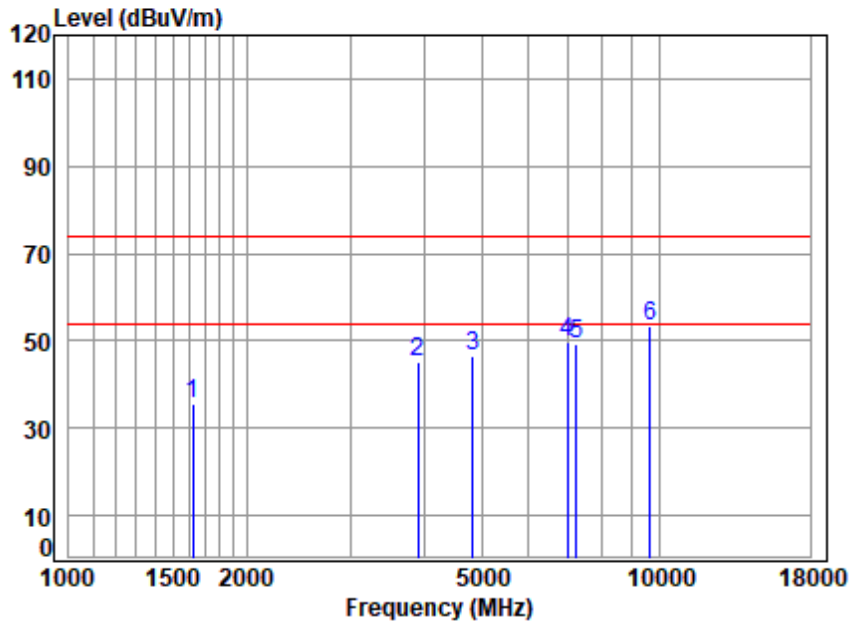
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1692.231	3.42	26.66	40.06	46.00	36.02	74.00	-37.98 peak
2	4405.090	6.67	32.93	41.79	48.12	45.93	74.00	-28.07 peak
3	4824.000	7.12	33.66	42.16	48.03	46.65	74.00	-27.35 peak
4	6835.278	8.46	35.21	41.81	47.36	49.22	74.00	-24.78 peak
5	7236.000	8.77	35.69	41.48	46.14	49.12	74.00	-24.88 peak
6	9648.000	10.79	37.36	37.69	42.60	53.06	74.00	-20.94 peak



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



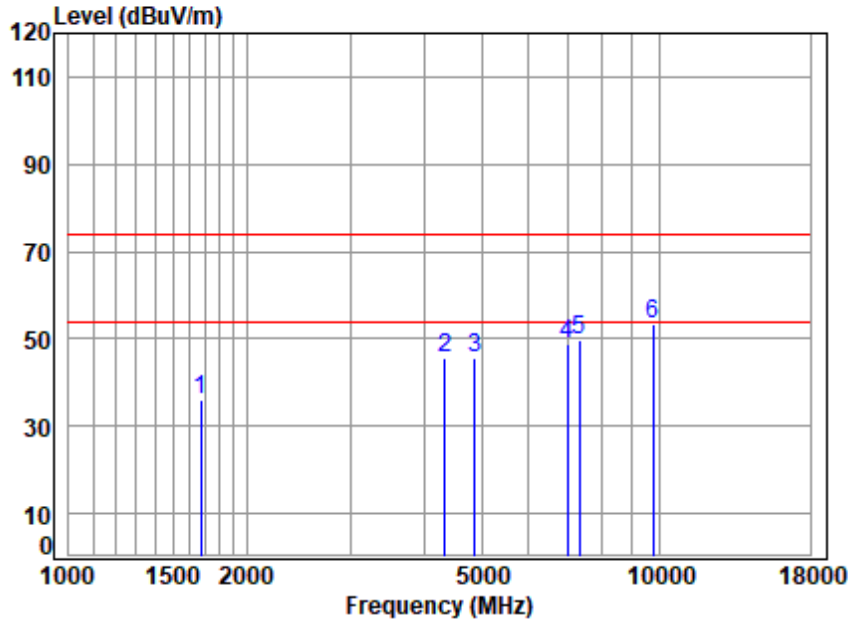
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1620.431	3.36	26.32	40.02	45.93	35.59	74.00	-38.41 peak
2	3901.516	6.14	32.43	41.34	47.94	45.17	74.00	-28.83 peak
3	4824.000	7.12	33.66	42.16	48.02	46.64	74.00	-27.36 peak
4	6995.172	8.54	35.49	41.70	47.28	49.61	74.00	-24.39 peak
5	7236.000	8.77	35.69	41.48	46.33	49.31	74.00	-24.69 peak
6	9648.000	10.79	37.36	37.69	42.73	53.19	74.00	-20.81 peak



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



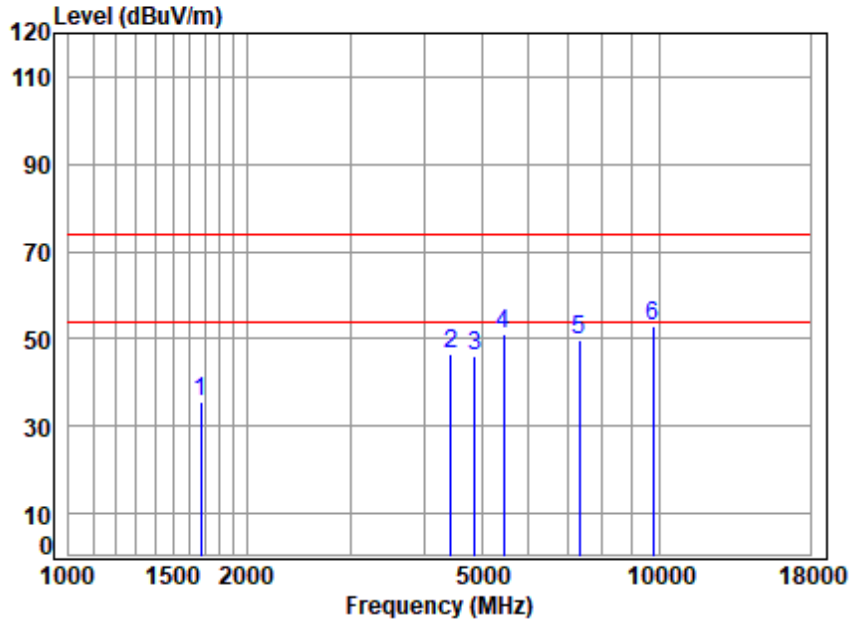
Site : chamber
Condition: 3m HORIZONTAL
Job No : 21208AT/21209AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	3.41	26.57	40.05	46.26	36.19	74.00	-37.81 peak
2	4329.354	6.60	32.87	41.72	48.06	45.81	74.00	-28.19 peak
3	4874.000	7.17	33.76	42.20	47.12	45.85	74.00	-28.15 peak
4	6974.982	8.53	35.46	41.72	46.70	48.97	74.00	-25.03 peak
5	7311.000	8.84	35.75	41.41	46.66	49.84	74.00	-24.16 peak
6	9748.000	10.76	37.40	37.52	42.55	53.19	74.00	-20.81 peak



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



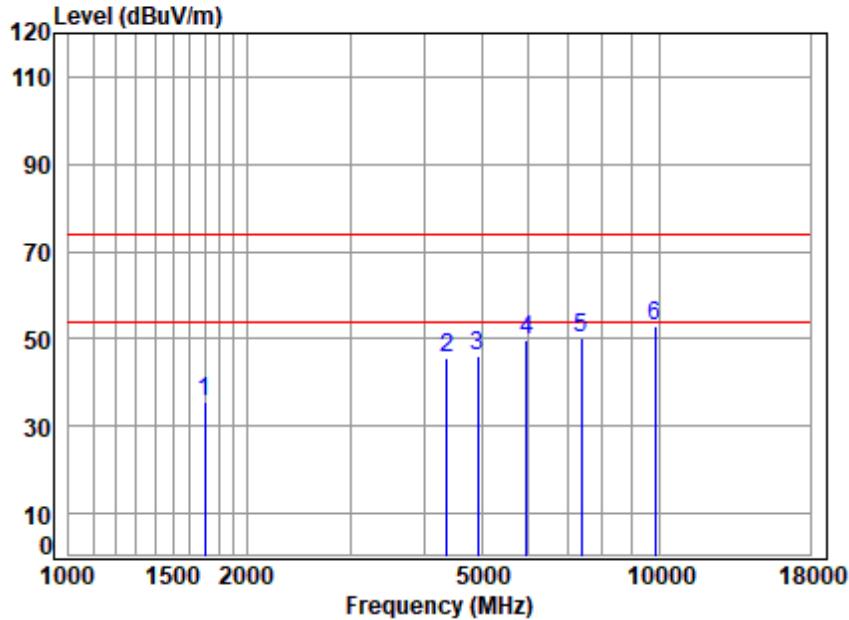
Site : chamber
Condition: 3m VERTICAL
Job No : 21208AT/21209AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	3.41	26.57	40.05	45.65	35.58	74.00	-38.42 peak
2	4430.628	6.70	32.95	41.81	48.51	46.35	74.00	-27.65 peak
3	4874.000	7.17	33.76	42.20	47.51	46.24	74.00	-27.76 peak
4	5439.885	8.08	34.18	42.35	51.13	51.04	74.00	-22.96 peak
5	7311.000	8.84	35.75	41.41	46.57	49.75	74.00	-24.25 peak
6	9748.000	10.76	37.40	37.52	42.50	53.14	74.00	-20.86 peak



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



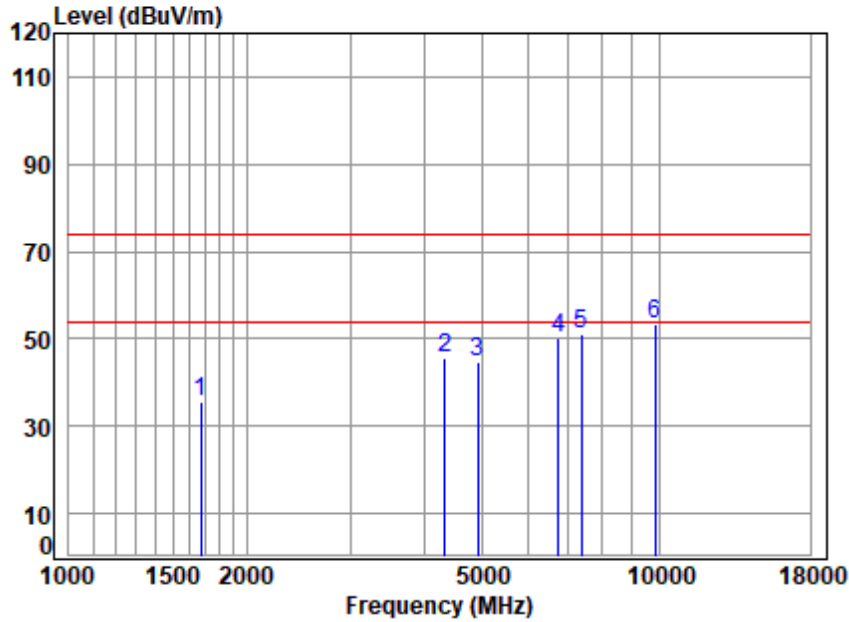
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1697.129	3.43	26.69	40.06	45.65	35.71	74.00	-38.29 peak
2	4367.058	6.64	32.90	41.75	47.68	45.47	74.00	-28.53 peak
3	4924.000	7.22	33.85	42.24	47.30	46.13	74.00	-27.87 peak
4	5949.811	8.25	34.56	42.40	49.49	49.90	74.00	-24.10 peak
5	7386.000	8.91	35.81	41.34	46.90	50.28	74.00	-23.72 peak
6	9848.000	10.73	37.44	37.35	42.06	52.88	74.00	-21.12 peak



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



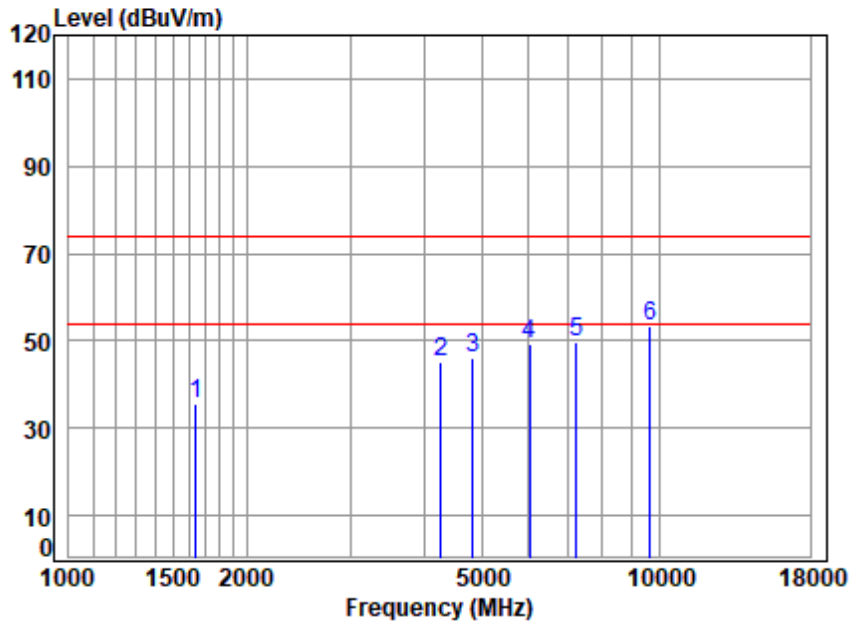
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	3.41	26.57	40.05	45.62	35.55	74.00	-38.45 peak
2	4341.886	6.61	32.88	41.73	47.67	45.43	74.00	-28.57 peak
3	4924.000	7.22	33.85	42.24	45.95	44.78	74.00	-29.22 peak
4	6756.708	8.42	35.07	41.86	48.34	49.97	74.00	-24.03 peak
5	7386.000	8.91	35.81	41.34	47.75	51.13	74.00	-22.87 peak
6	9848.000	10.73	37.44	37.35	42.55	53.37	74.00	-20.63 peak



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



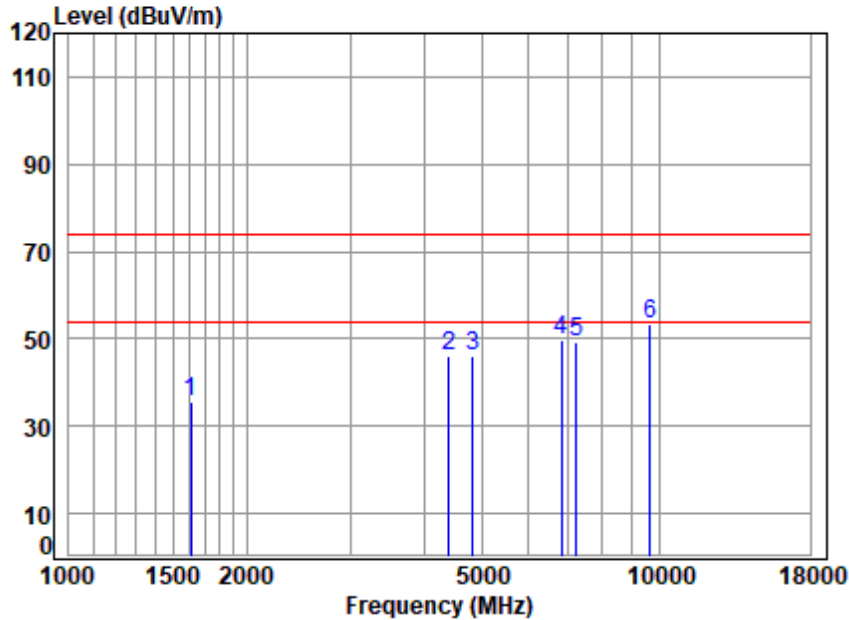
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1644.019	3.38	26.43	40.03	46.02	35.80	74.00	-38.20 peak
2	4267.237	6.54	32.82	41.66	47.33	45.03	74.00	-28.97 peak
3	4824.000	7.12	33.66	42.16	47.45	46.07	74.00	-27.93 peak
4	6018.999	8.26	34.60	42.39	48.83	49.30	74.00	-24.70 peak
5	7236.000	8.77	35.69	41.48	46.90	49.88	74.00	-24.12 peak
6	9648.000	10.79	37.36	37.69	42.76	53.22	74.00	-20.78 peak



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



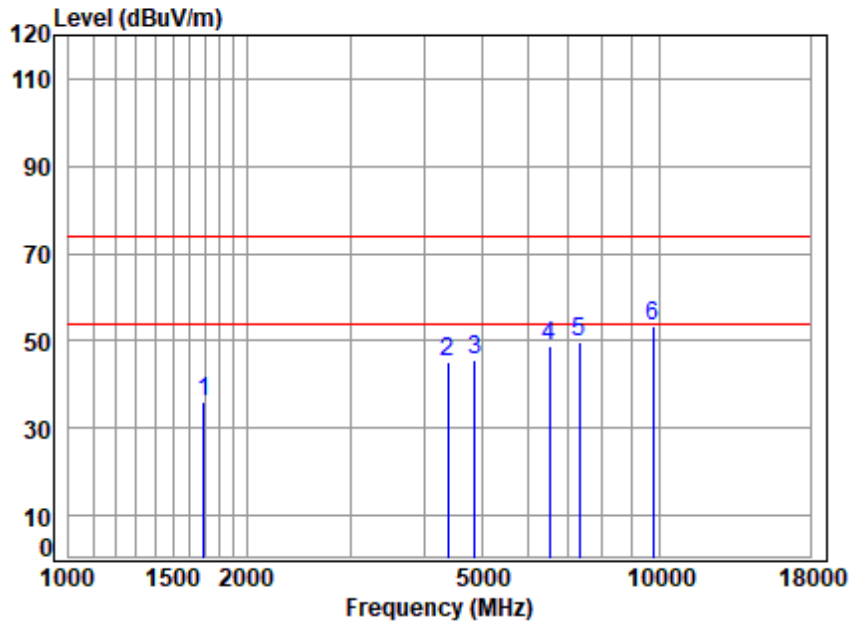
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	3.36	26.27	40.01	45.97	35.59	74.00	-38.41 peak
2	4405.090	6.67	32.93	41.79	48.07	45.88	74.00	-28.12 peak
3	4824.000	7.12	33.66	42.16	47.33	45.95	74.00	-28.05 peak
4	6815.551	8.45	35.18	41.82	47.80	49.61	74.00	-24.39 peak
5	7236.000	8.77	35.69	41.48	46.41	49.39	74.00	-24.61 peak
6	9648.000	10.79	37.36	37.69	42.81	53.27	74.00	-20.73 peak



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



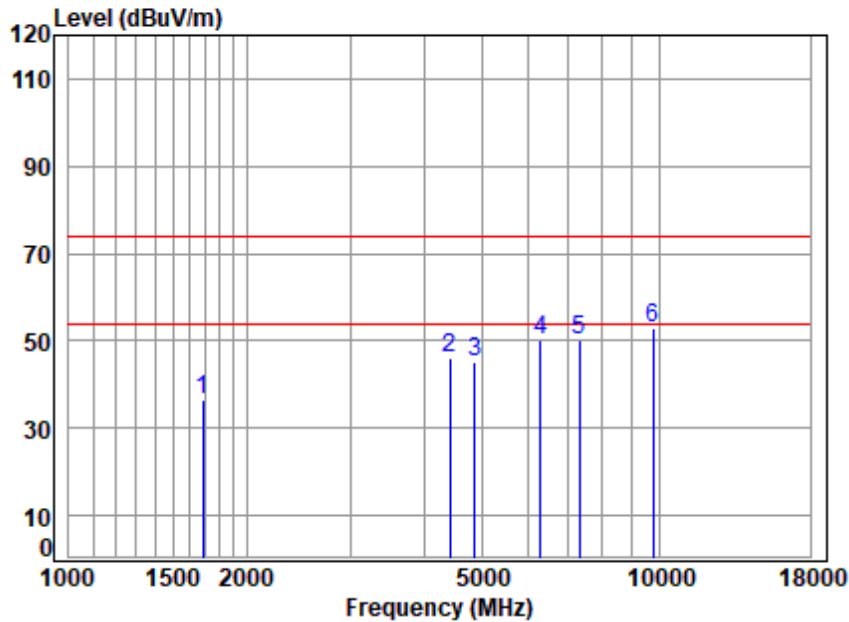
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1692.231	3.42	26.66	40.06	45.85	35.87	74.00	-38.13 peak
2	4392.376	6.66	32.92	41.78	47.17	44.97	74.00	-29.03 peak
3	4874.000	7.17	33.76	42.20	47.03	45.76	74.00	-28.24 peak
4	6507.536	8.28	34.61	42.03	48.09	48.95	74.00	-25.05 peak
5	7311.000	8.84	35.75	41.41	46.68	49.86	74.00	-24.14 peak
6	9748.000	10.76	37.40	37.52	42.69	53.33	74.00	-20.67 peak



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



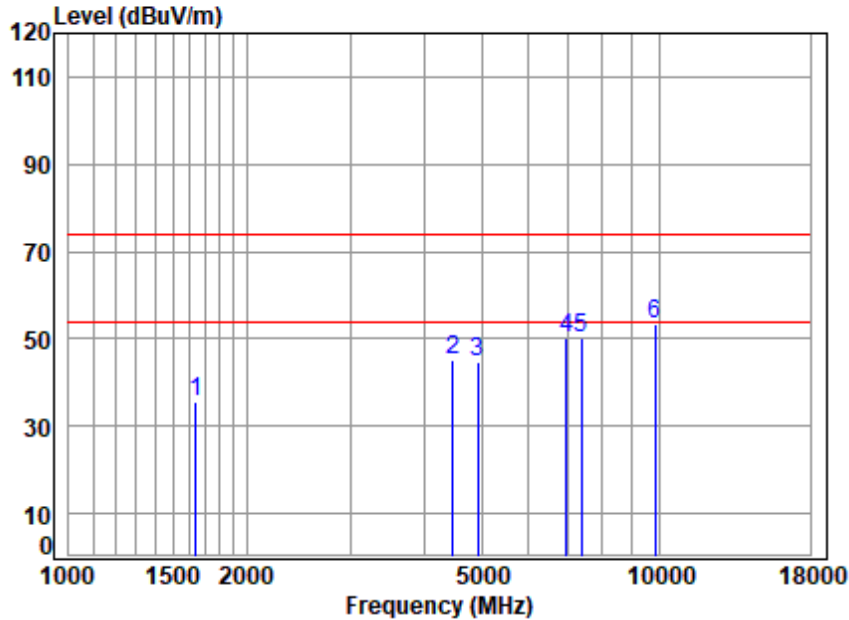
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1687.347	3.42	26.64	40.05	46.28	36.29	74.00	-37.71 peak
2	4417.841	6.68	32.94	41.80	48.29	46.11	74.00	-27.89 peak
3	4874.000	7.17	33.76	42.20	46.56	45.29	74.00	-28.71 peak
4	6303.890	8.27	34.60	42.18	49.49	50.18	74.00	-23.82 peak
5	7311.000	8.84	35.75	41.41	47.20	50.38	74.00	-23.62 peak
6	9748.000	10.76	37.40	37.52	42.47	53.11	74.00	-20.89 peak



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



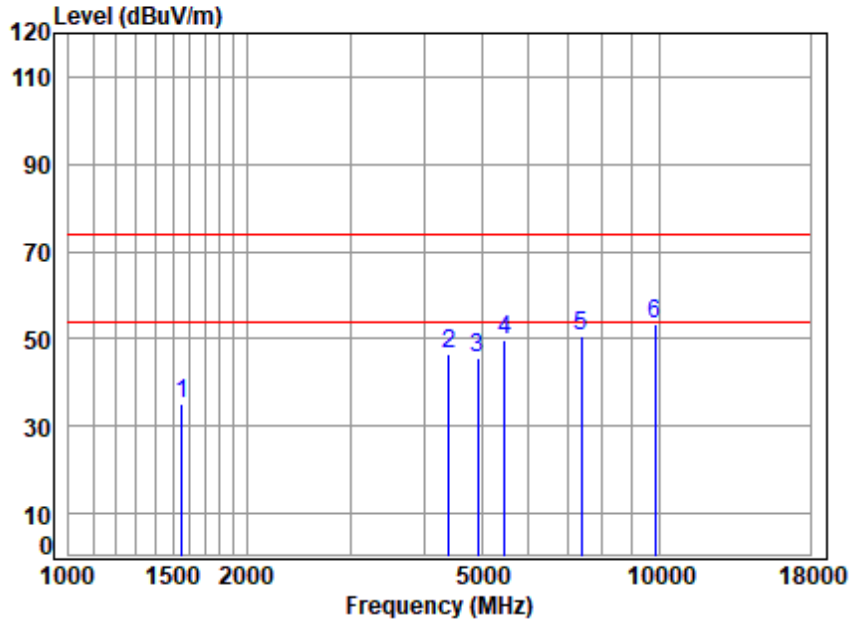
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	3.38	26.41	40.03	45.80	35.56	74.00	-38.44 peak
2	4469.214	6.73	32.98	41.85	47.38	45.24	74.00	-28.76 peak
3	4924.000	7.22	33.85	42.24	45.91	44.74	74.00	-29.26 peak
4	6954.852	8.52	35.42	41.73	47.83	50.04	74.00	-23.96 peak
5	7386.000	8.91	35.81	41.34	47.01	50.39	74.00	-23.61 peak
6	9848.000	10.73	37.44	37.35	42.49	53.31	74.00	-20.69 peak



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



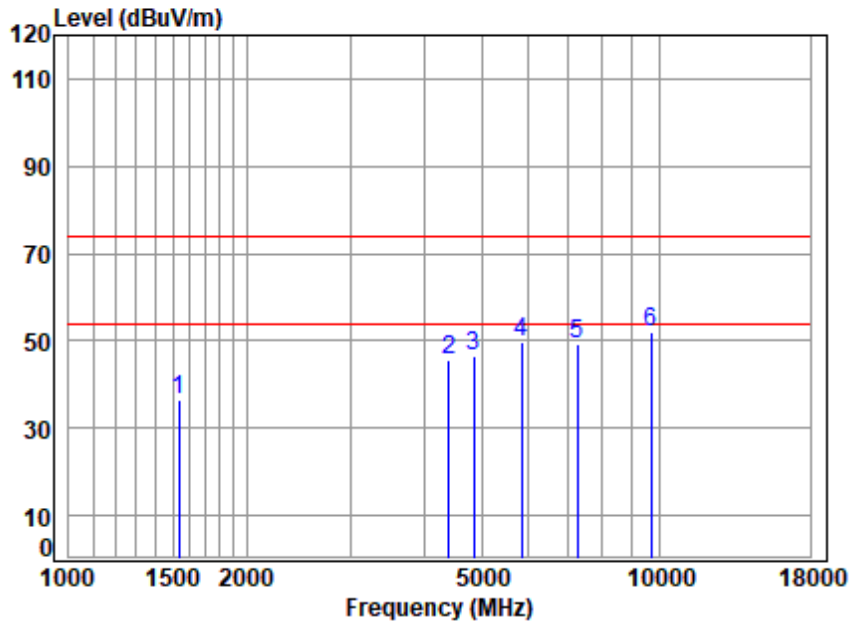
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	3.31	25.99	39.98	45.95	35.27	74.00	-38.73	peak
2	6.67	32.93	41.79	48.69	46.50	74.00	-27.50	peak
3	7.22	33.85	42.24	46.74	45.57	74.00	-28.43	peak
4	8.13	34.19	42.35	49.76	49.73	74.00	-24.27	peak
5	8.91	35.81	41.34	47.22	50.60	74.00	-23.40	peak
6	10.73	37.44	37.35	42.45	53.27	74.00	-20.73	peak



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



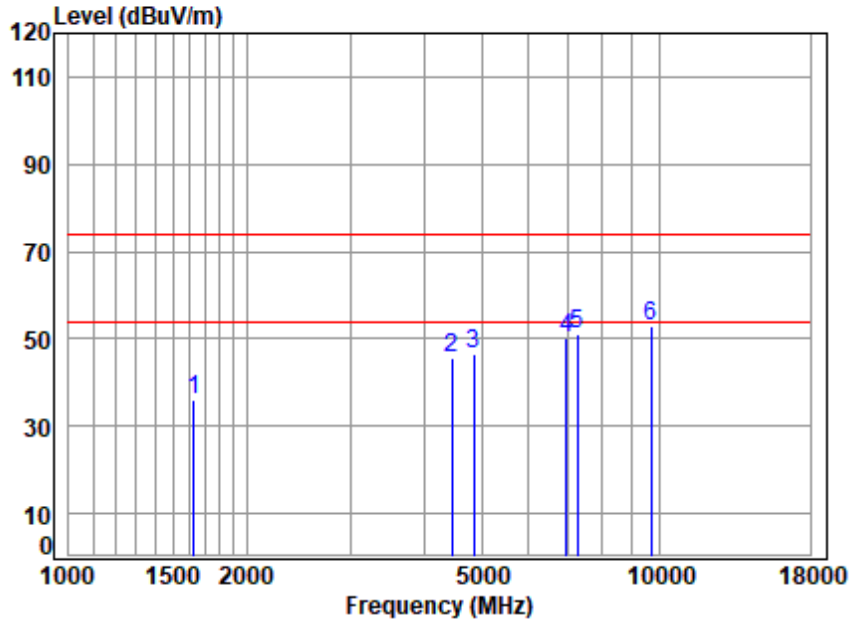
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1538.281	3.29	25.90	39.97	47.37	36.59	74.00	-37.41 peak
2	4405.090	6.67	32.93	41.79	47.99	45.80	74.00	-28.20 peak
3	4844.000	7.14	33.70	42.17	47.98	46.65	74.00	-27.35 peak
4	5847.517	8.24	34.48	42.39	49.62	49.95	74.00	-24.05 peak
5	7266.000	8.79	35.72	41.45	46.39	49.45	74.00	-24.55 peak
6	9688.000	10.78	37.38	37.63	41.32	51.85	74.00	-22.15 peak



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



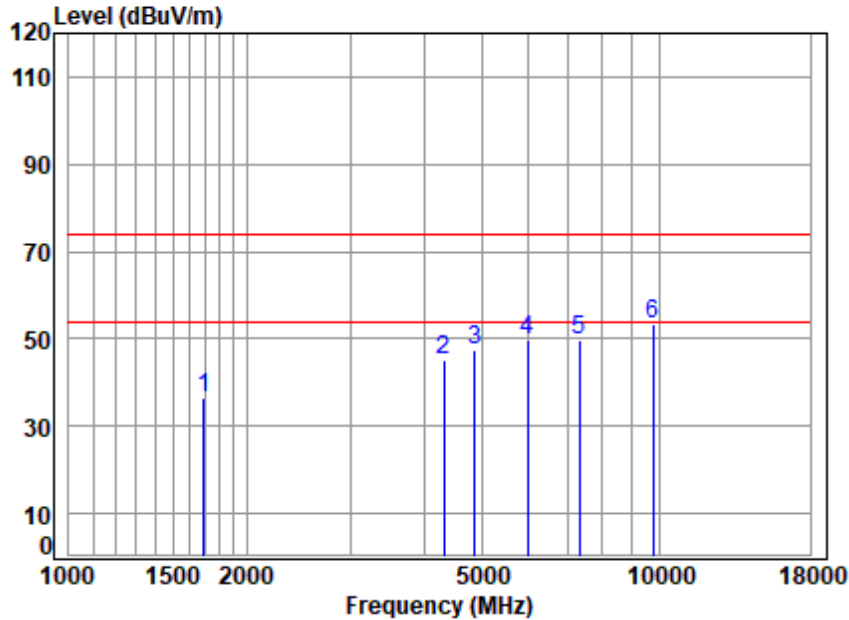
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1629.825	3.37	26.36	40.02	46.20	35.91	74.00	-38.09 peak
2	4456.315	6.72	32.97	41.84	47.97	45.82	74.00	-28.18 peak
3	4844.000	7.14	33.70	42.17	48.00	46.67	74.00	-27.33 peak
4	6954.852	8.52	35.42	41.73	47.80	50.01	74.00	-23.99 peak
5	7266.000	8.79	35.72	41.45	47.94	51.00	74.00	-23.00 peak
6	9688.000	10.78	37.38	37.63	42.19	52.72	74.00	-21.28 peak



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



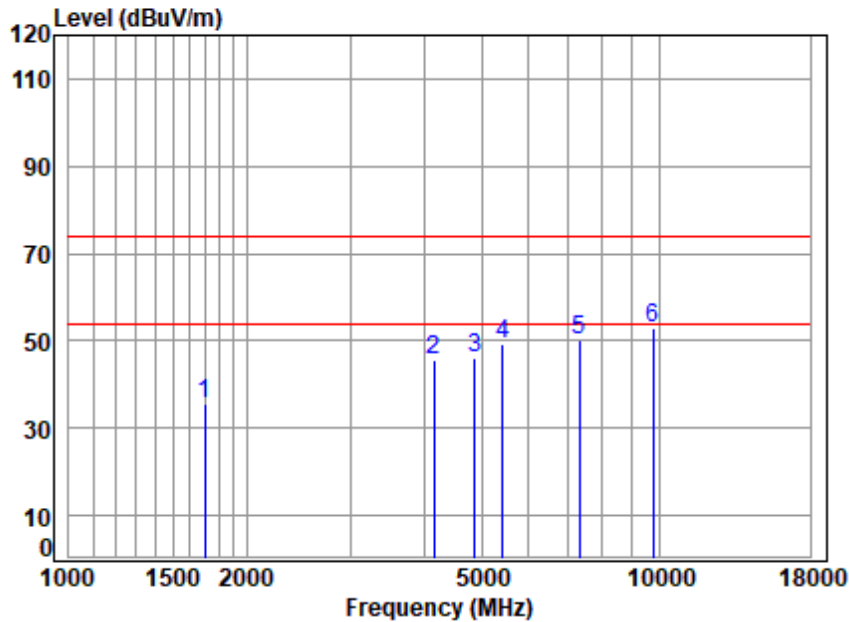
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1692.231	3.42	26.66	40.06	46.45	36.47	74.00	-37.53 peak
2	4316.859	6.59	32.86	41.71	47.47	45.21	74.00	-28.79 peak
3	4874.000	7.17	33.76	42.20	48.59	47.32	74.00	-26.68 peak
4	5984.305	8.26	34.59	42.40	49.39	49.84	74.00	-24.16 peak
5	7311.000	8.84	35.75	41.41	46.55	49.73	74.00	-24.27 peak
6	9748.000	10.76	37.40	37.52	42.63	53.27	74.00	-20.73 peak



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



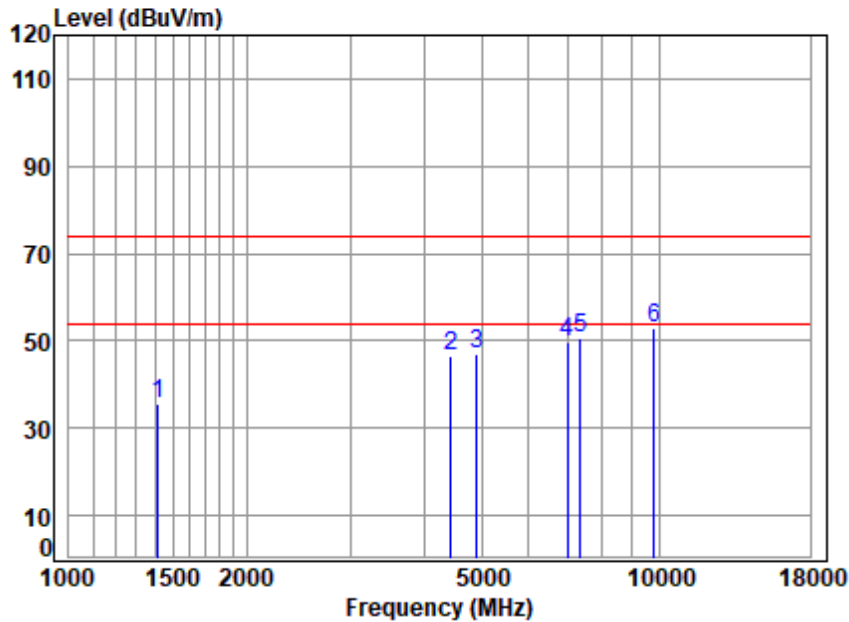
Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1697.129	3.43	26.69	40.06	45.75	35.81	74.00	-38.19 peak
2	4157.664	6.44	32.73	41.56	47.91	45.52	74.00	-28.48 peak
3	4874.000	7.17	33.76	42.20	47.33	46.06	74.00	-27.94 peak
4	5424.184	8.05	34.17	42.34	49.36	49.24	74.00	-24.76 peak
5	7311.000	8.84	35.75	41.41	47.00	50.18	74.00	-23.82 peak
6	9748.000	10.76	37.40	37.52	42.45	53.09	74.00	-20.91 peak



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



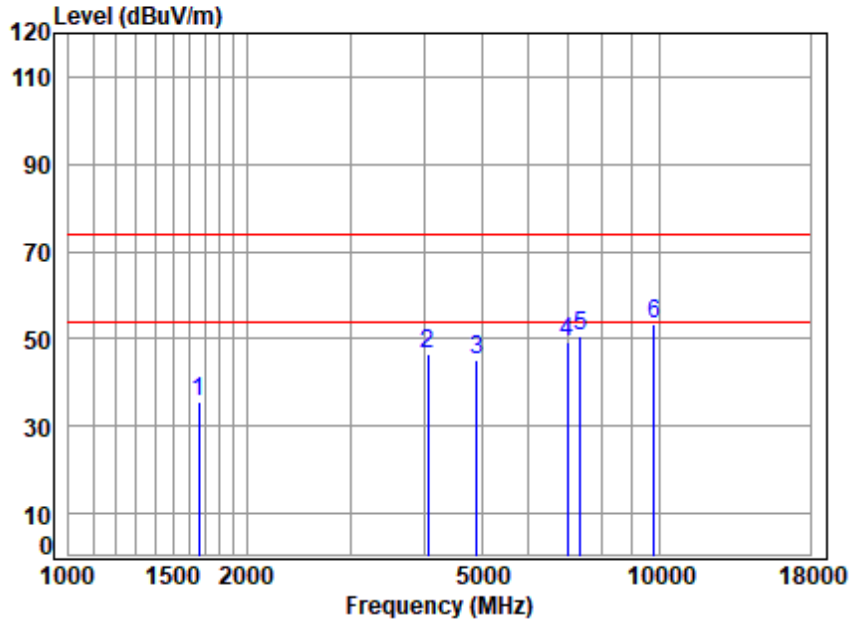
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 21208AT/21209AT
 Mode : 2452 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1414.597	3.13	25.54	39.90	47.01	35.78	74.00	-38.22 peak
2	4443.453	6.71	32.96	41.82	48.86	46.71	74.00	-27.29 peak
3	4904.000	7.20	33.82	42.22	48.17	46.97	74.00	-27.03 peak
4	6995.172	8.54	35.49	41.70	47.48	49.81	74.00	-24.19 peak
5	7356.000	8.88	35.79	41.37	47.41	50.71	74.00	-23.29 peak
6	9808.000	10.75	37.42	37.42	42.40	53.15	74.00	-20.85 peak



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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 21208AT/21209AT
 Mode : 2452 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1658.337	3.40	26.50	40.04	45.86	35.72	74.00	-38.28 peak
2	4062.629	6.34	32.65	41.46	48.79	46.32	74.00	-27.68 peak
3	4904.000	7.20	33.82	42.22	46.58	45.38	74.00	-28.62 peak
4	6995.172	8.54	35.49	41.70	47.13	49.46	74.00	-24.54 peak
5	7356.000	8.88	35.79	41.37	47.14	50.44	74.00	-23.56 peak
6	9808.000	10.75	37.42	37.42	42.59	53.34	74.00	-20.66 peak



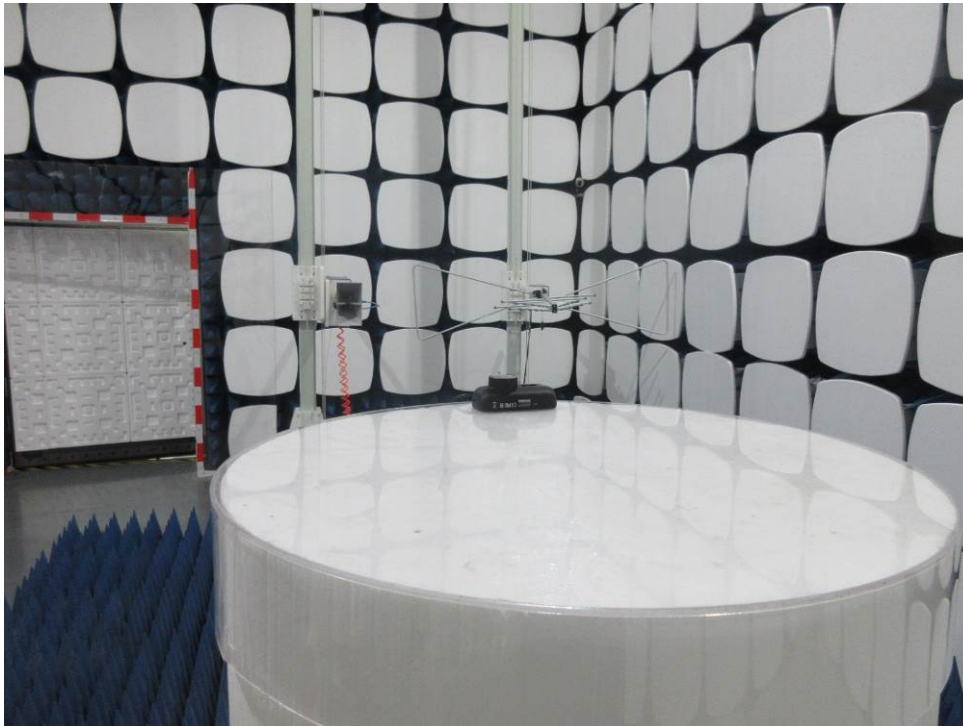
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7 Test Setup Photo

Radiated Spurious Emissions (Below 1GHz)



Radiated Spurious Emissions (Above 1GHz)



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for GZCR2108020923AT



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9 Appendix

Appendix for 15.247 --EPSON crystal oscillator

1. Maximum Conducted Output Power

1.1 Power

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Measured Peak Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	8.07	<=30	Pass
		2437	8.91	<=30	Pass
		2462	8.80	<=30	Pass
802.11g	SISO	2412	8.77	<=30	Pass
		2437	9.16	<=30	Pass
		2462	8.85	<=30	Pass
802.11n (HT20)	SISO	2412	9.30	<=30	Pass
		2437	9.25	<=30	Pass
		2462	8.81	<=30	Pass
802.11n (HT40)	SISO	2422	7.78	<=30	Pass
		2437	8.14	<=30	Pass
		2452	7.90	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;



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2. Unwanted Emissions In Non-restricted Frequency Bands

2.1 Ref

2.1.1 Test Result

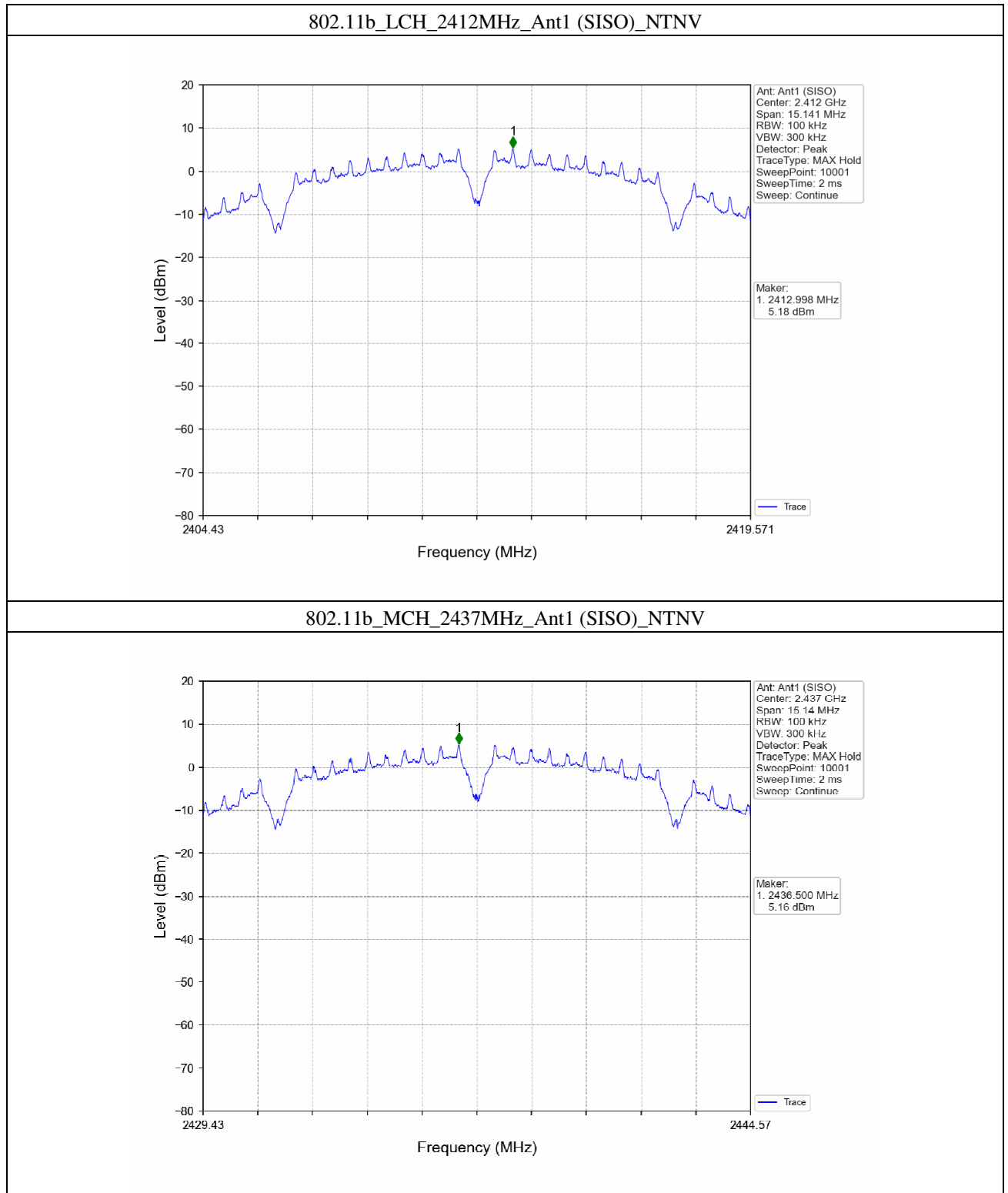
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	5.18
		2437	1	5.16
		2462	1	5.11
802.11g	SISO	2412	1	-2.44
		2437	1	-2.16
		2462	1	-2.46
802.11n (HT20)	SISO	2412	1	-2.13
		2437	1	-2.12
		2462	1	-2.59
802.11n (HT40)	SISO	2422	1	-6.21
		2437	1	-5.91
		2452	1	-6.18

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



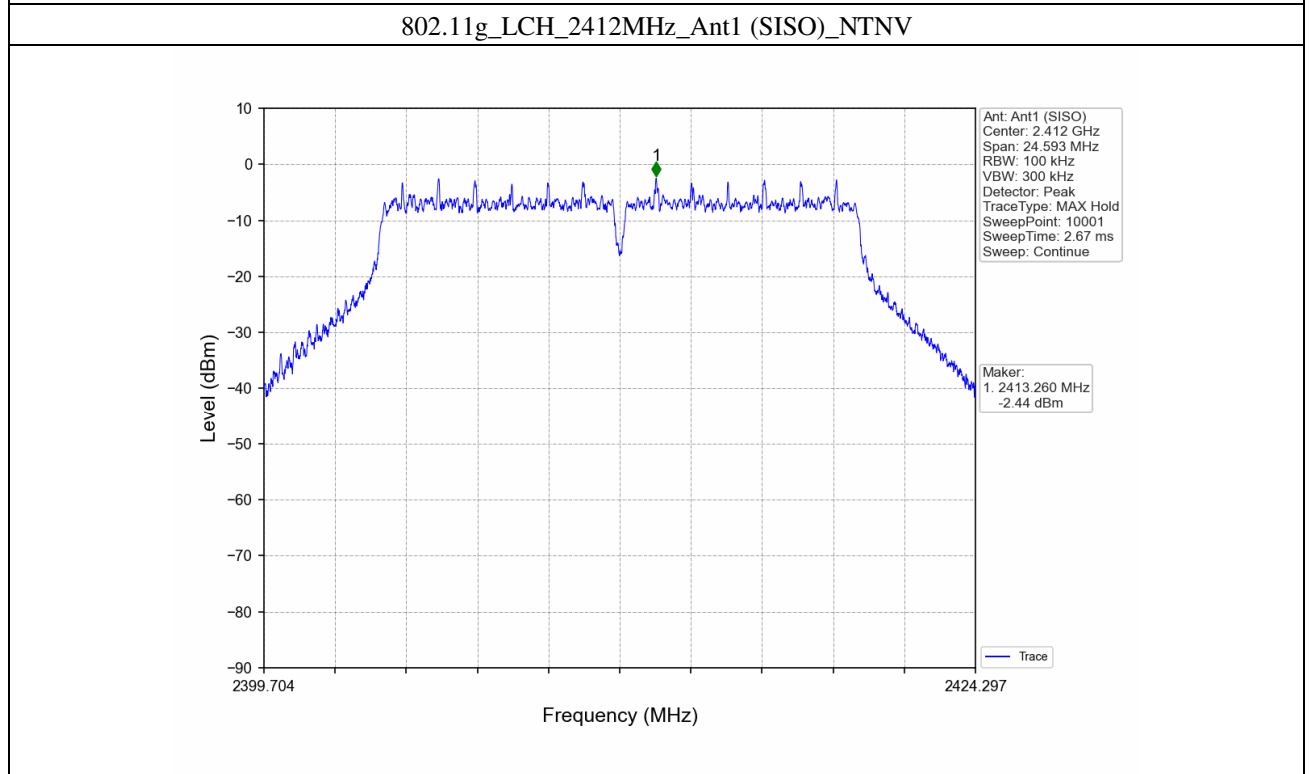
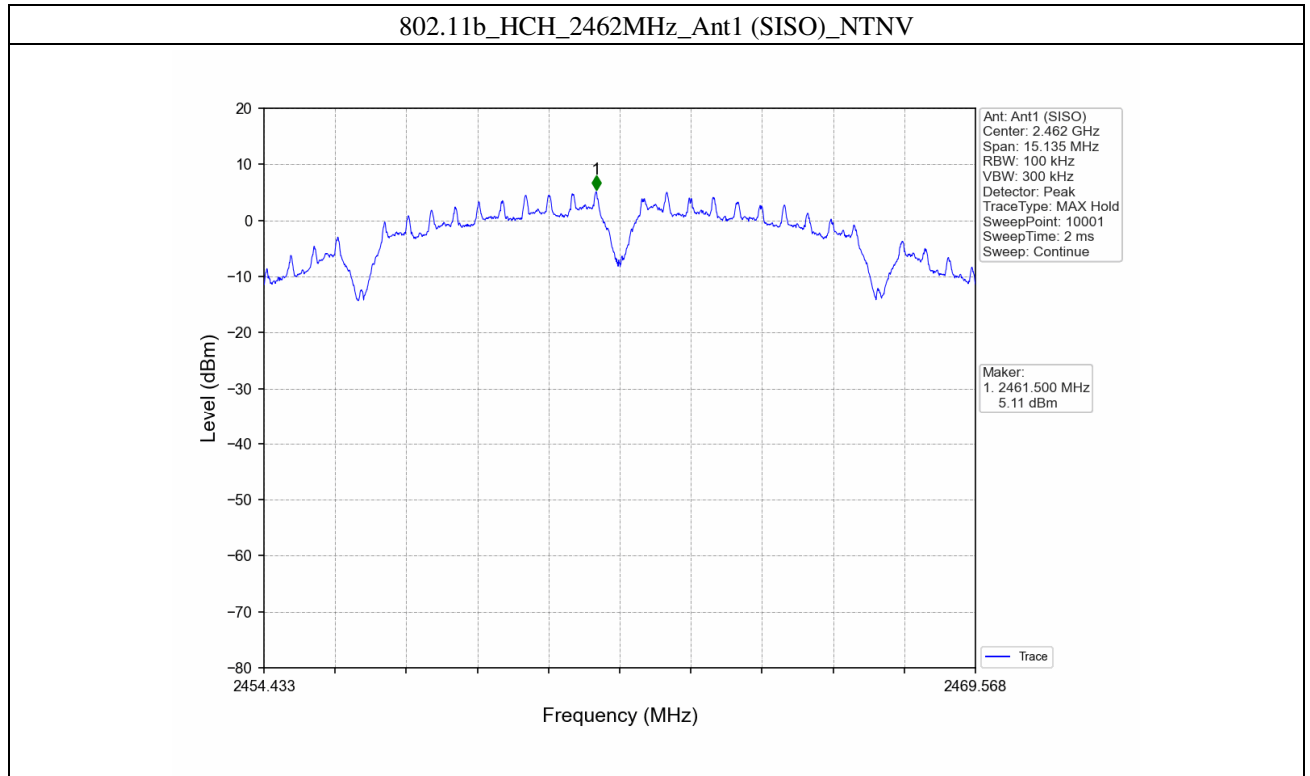
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2.1.2 Test Graph



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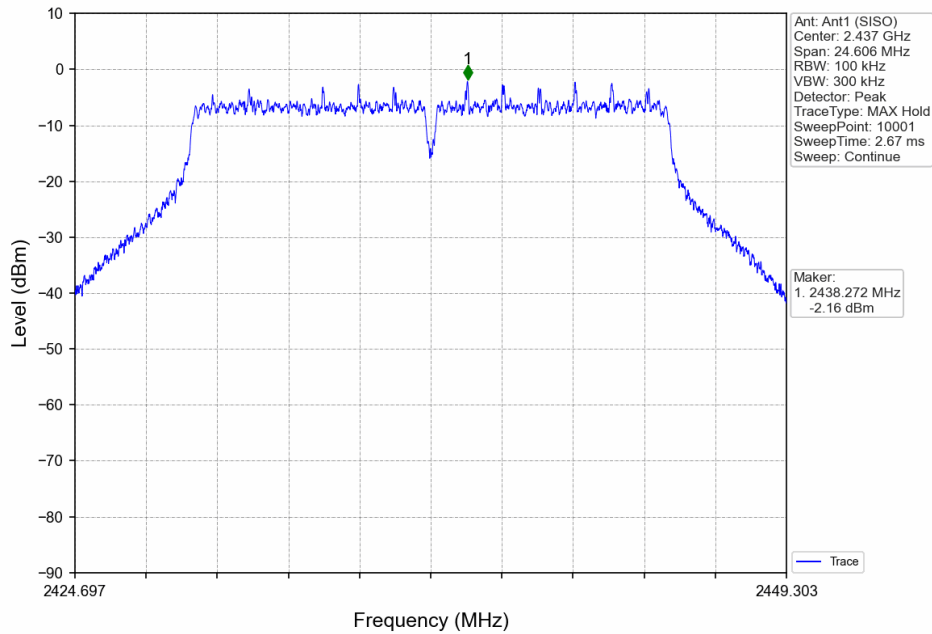
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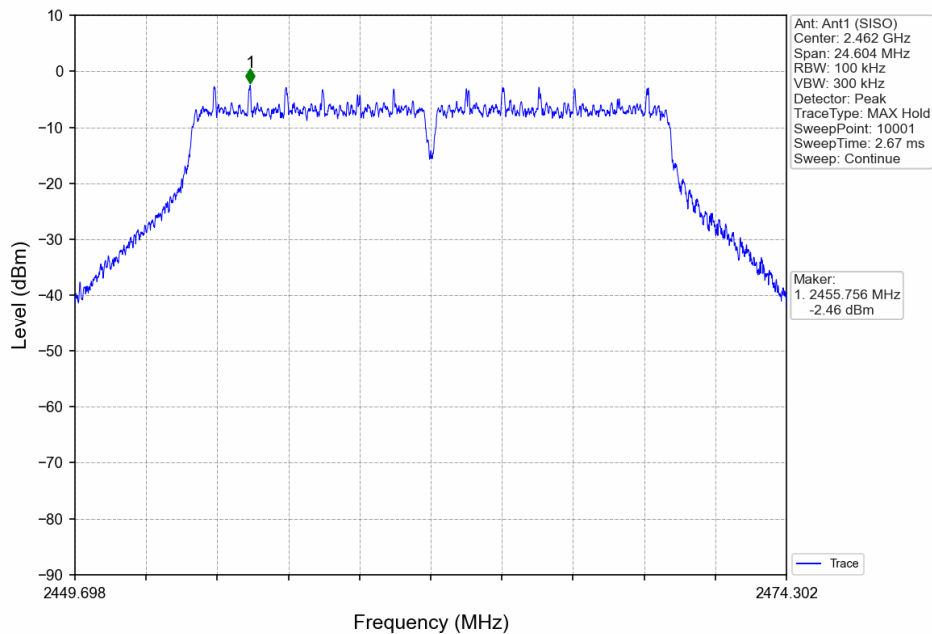
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

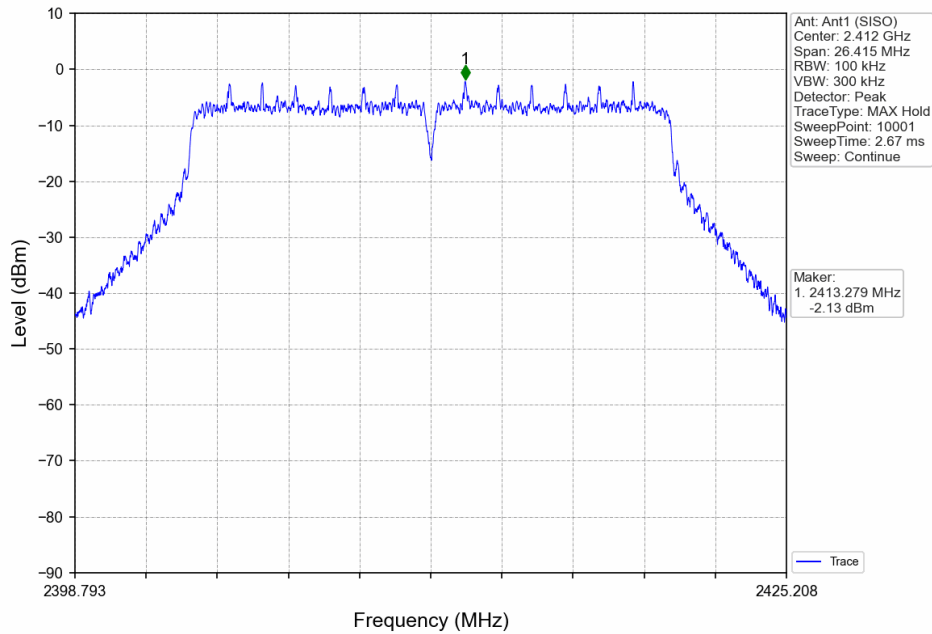


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

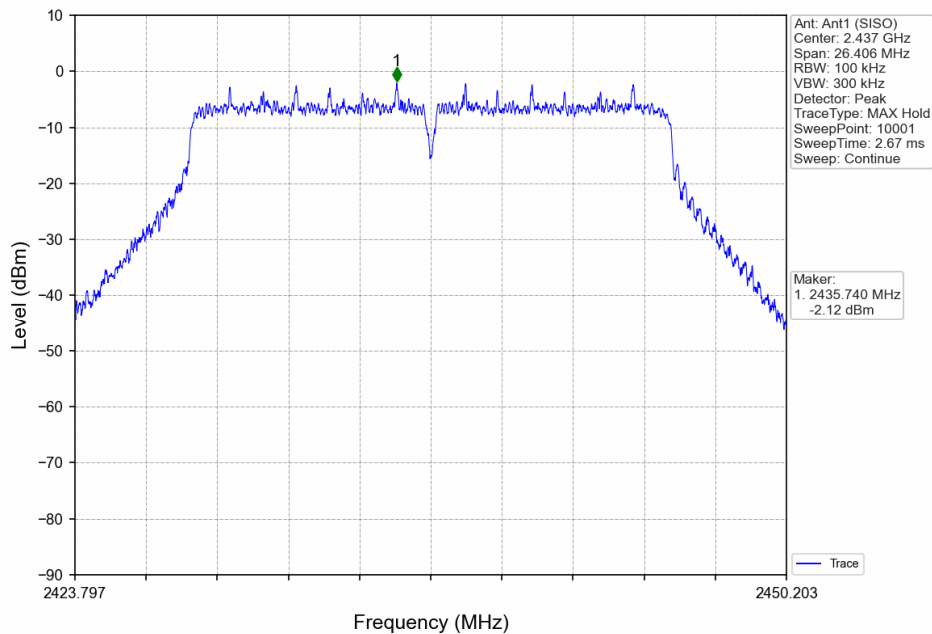


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

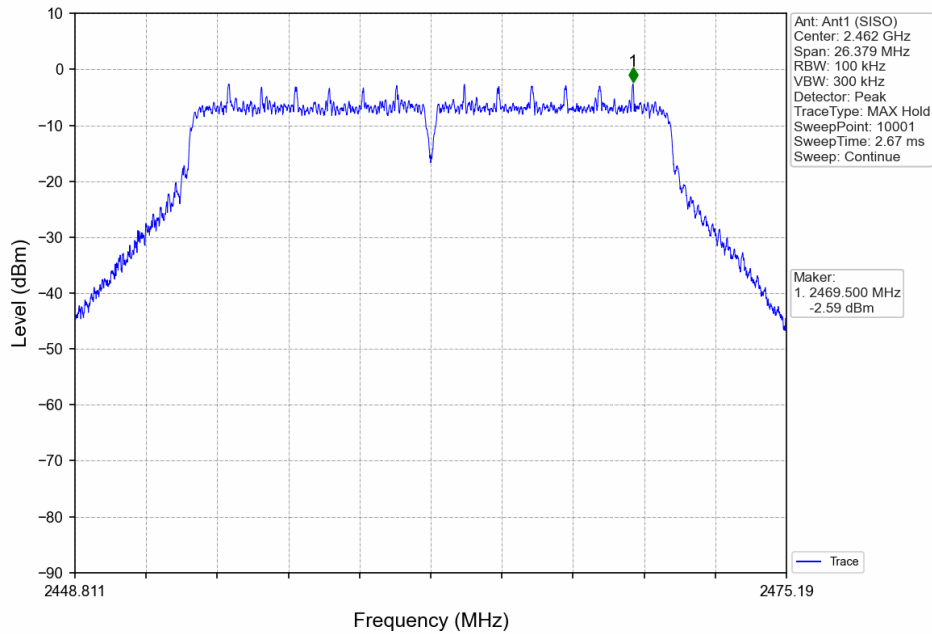


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

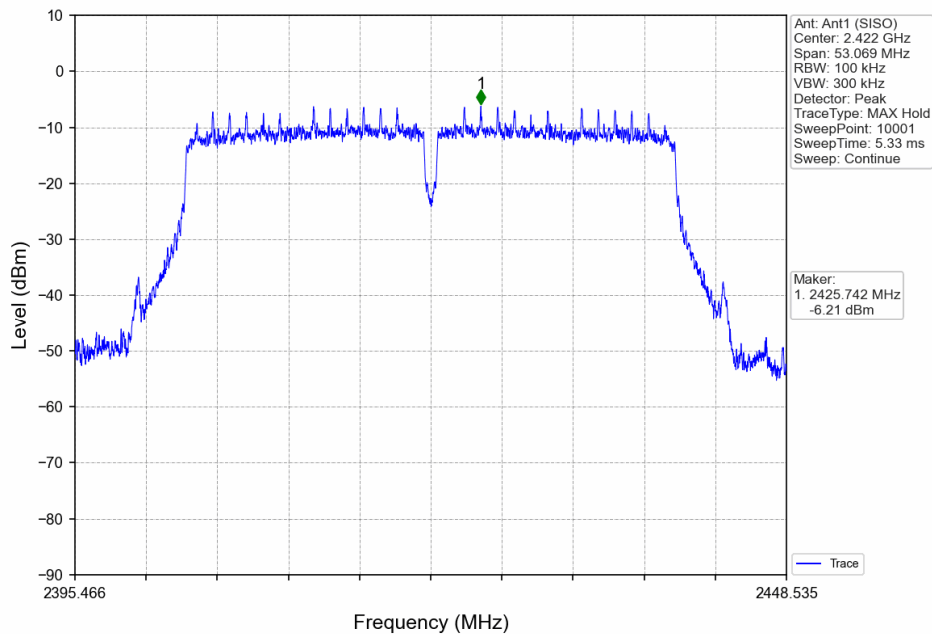


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

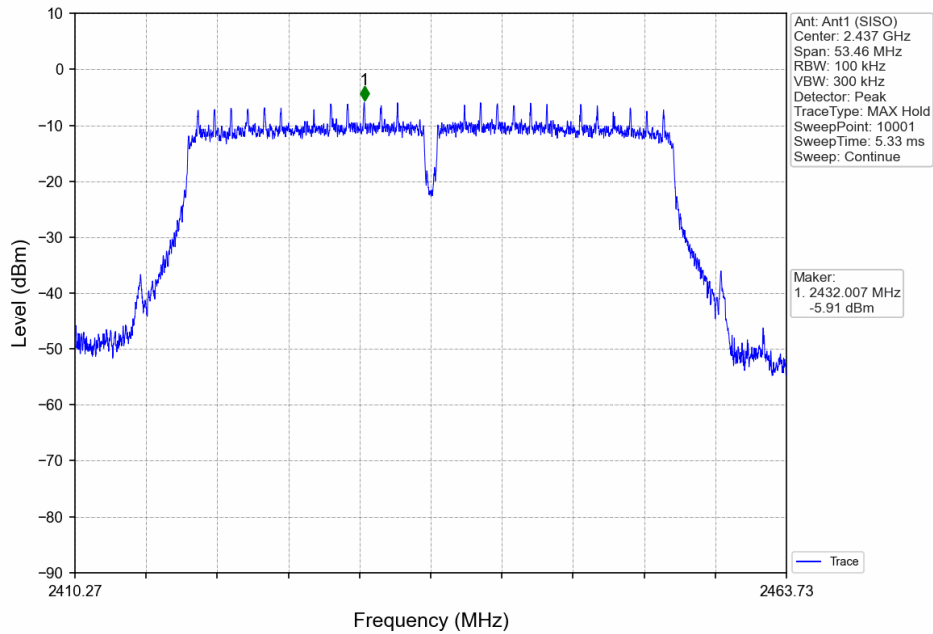


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

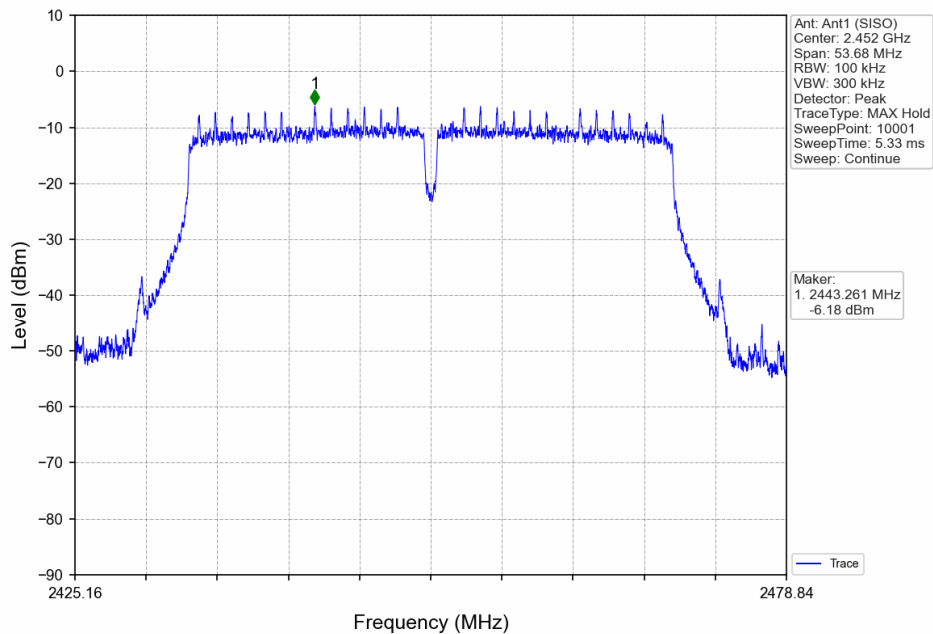


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 CSE

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.18	-24.82	Pass
		2437	1	5.18	-24.82	Pass
		2462	1	5.18	-24.82	Pass
802.11g	SISO	2412	1	-2.16	-32.16	Pass
		2437	1	-2.16	-32.16	Pass
		2462	1	-2.16	-32.16	Pass
802.11n (HT20)	SISO	2412	1	-2.12	-32.12	Pass
		2437	1	-2.12	-32.12	Pass
		2462	1	-2.12	-32.12	Pass
802.11n (HT40)	SISO	2422	1	-5.91	-35.91	Pass
		2437	1	-5.91	-35.91	Pass
		2452	1	-5.91	-35.91	Pass

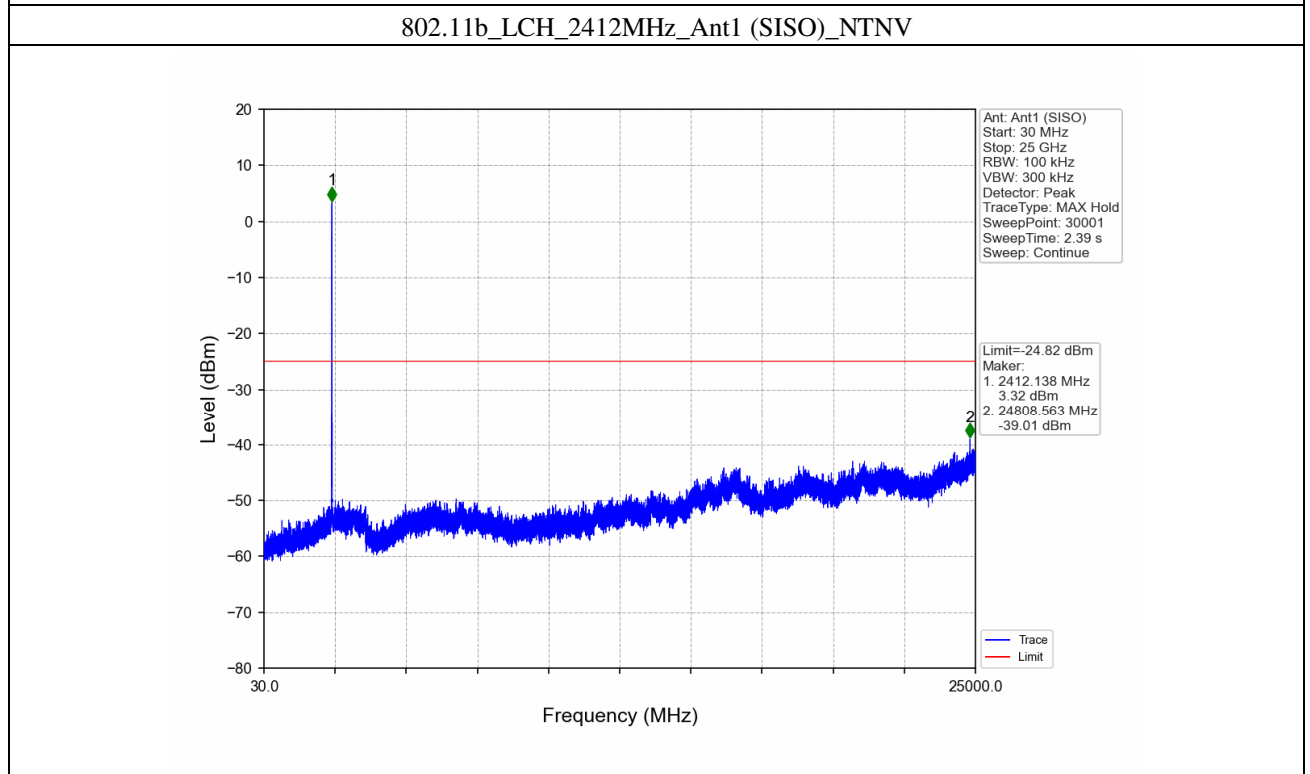
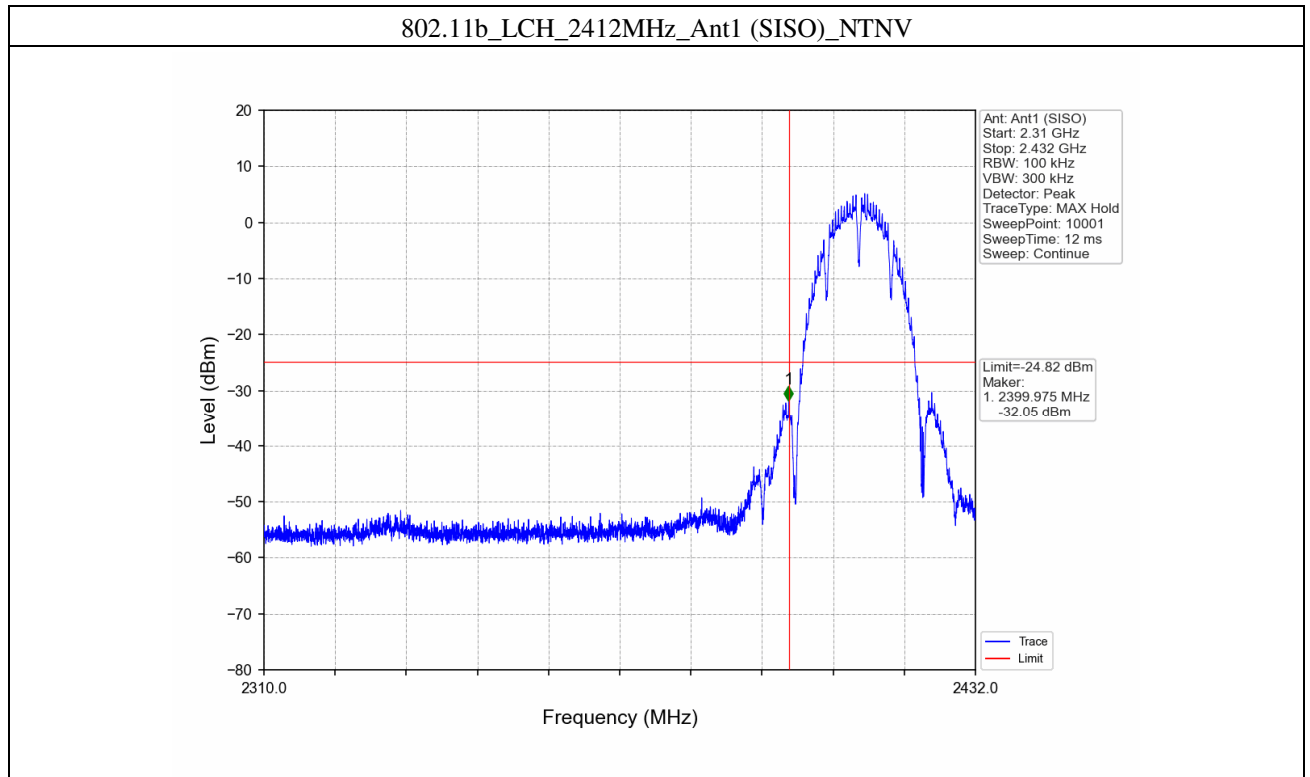
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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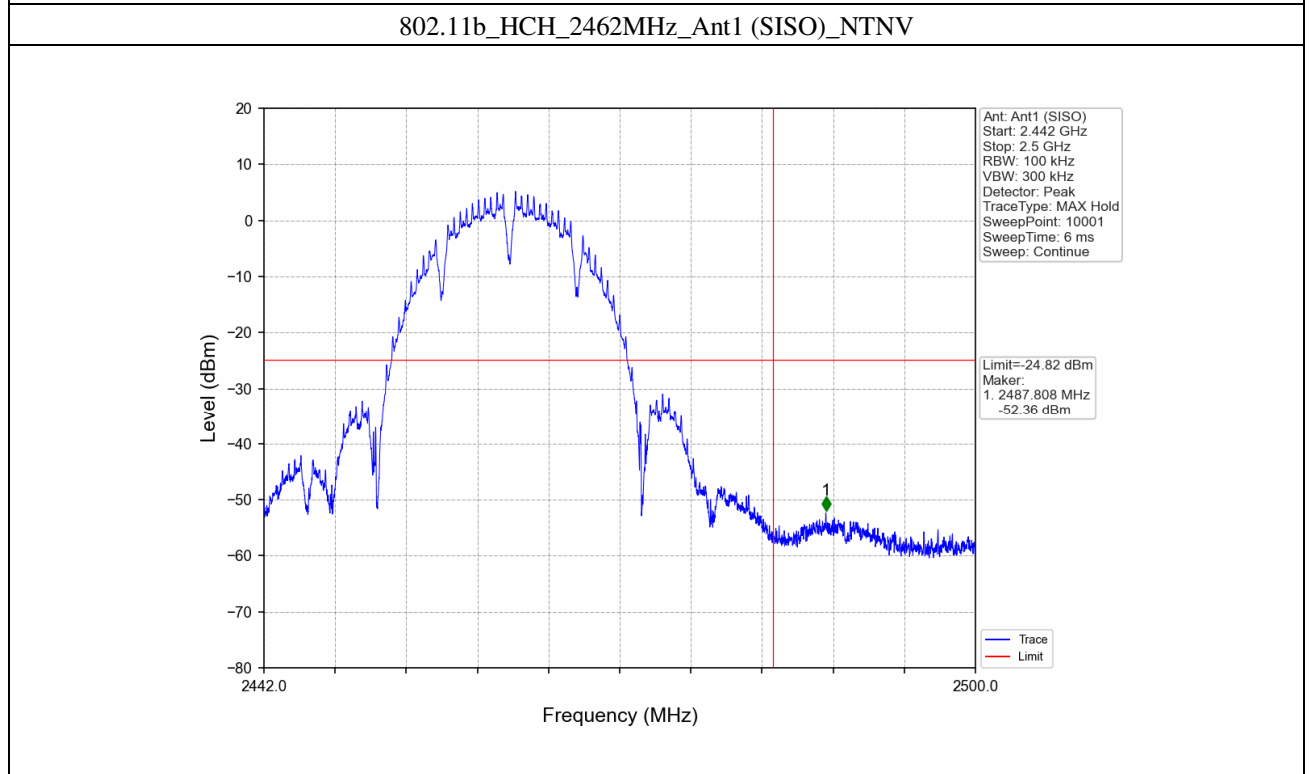
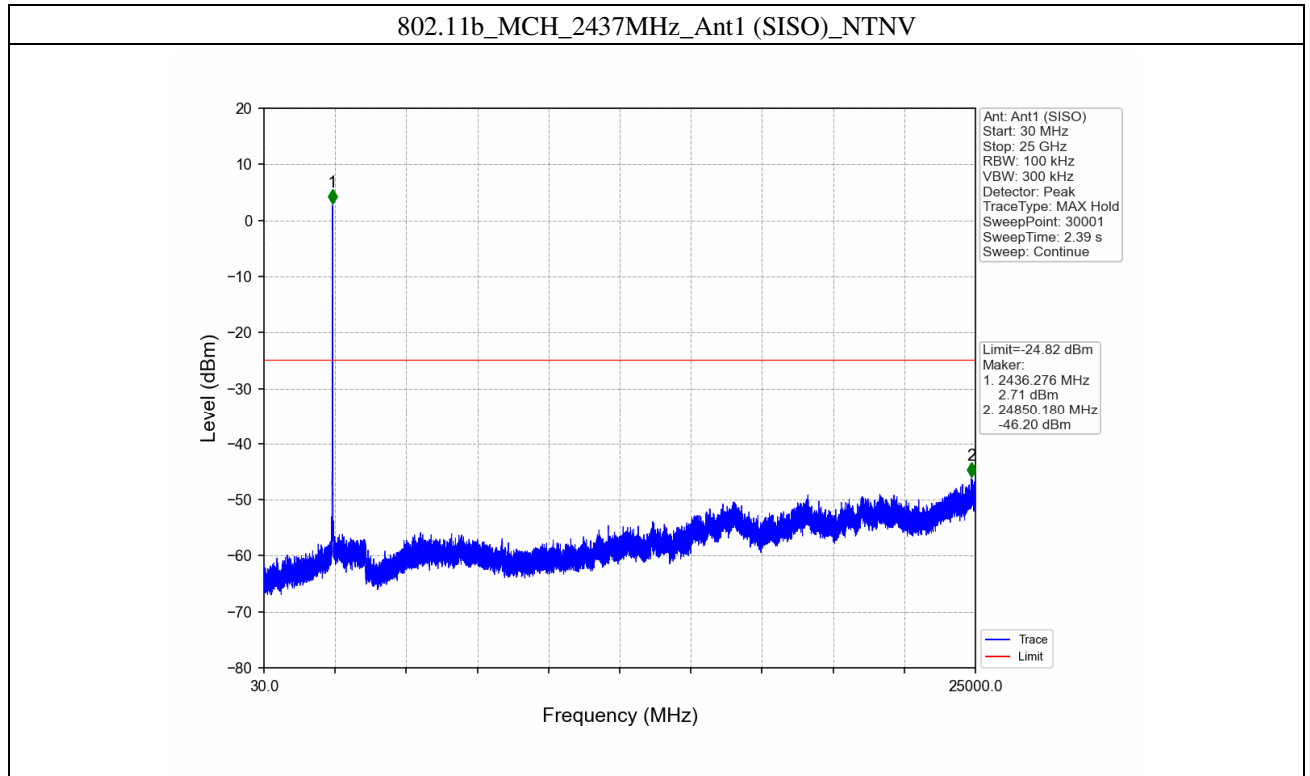
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5.2.2 Test Graph

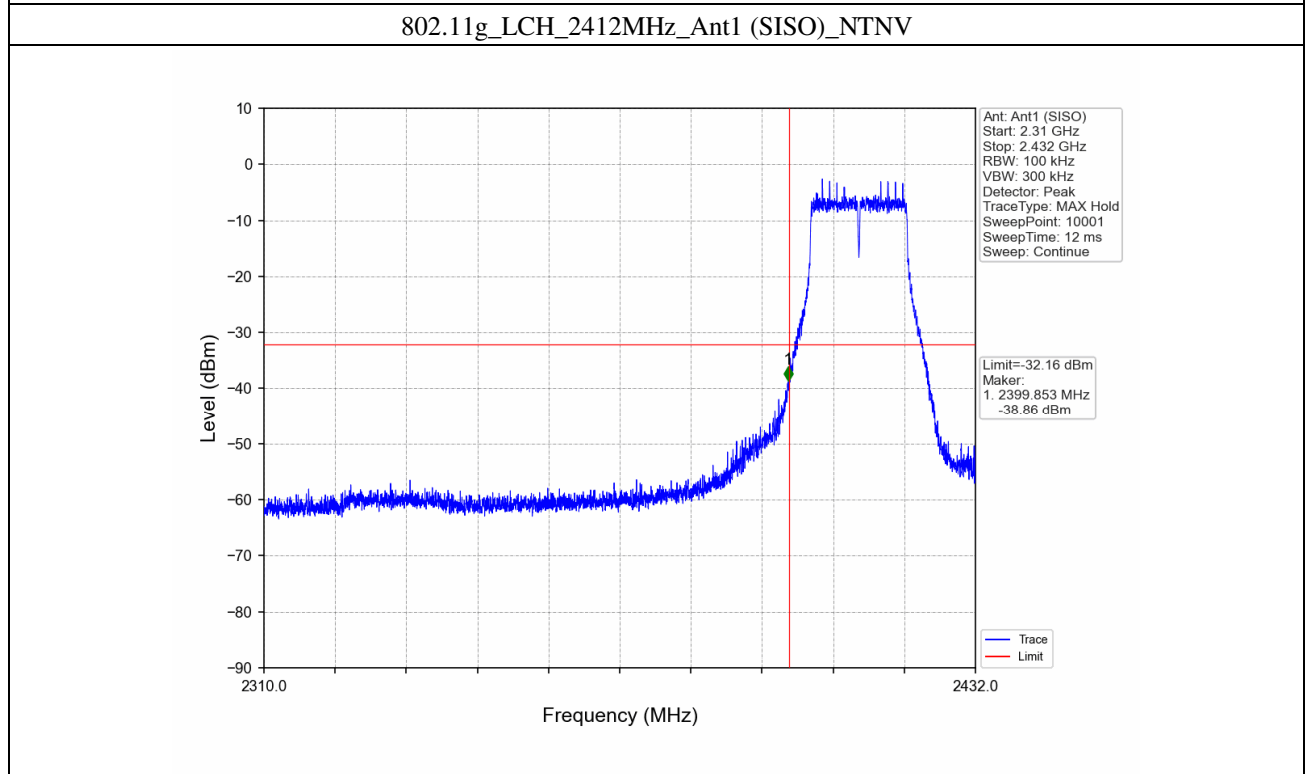
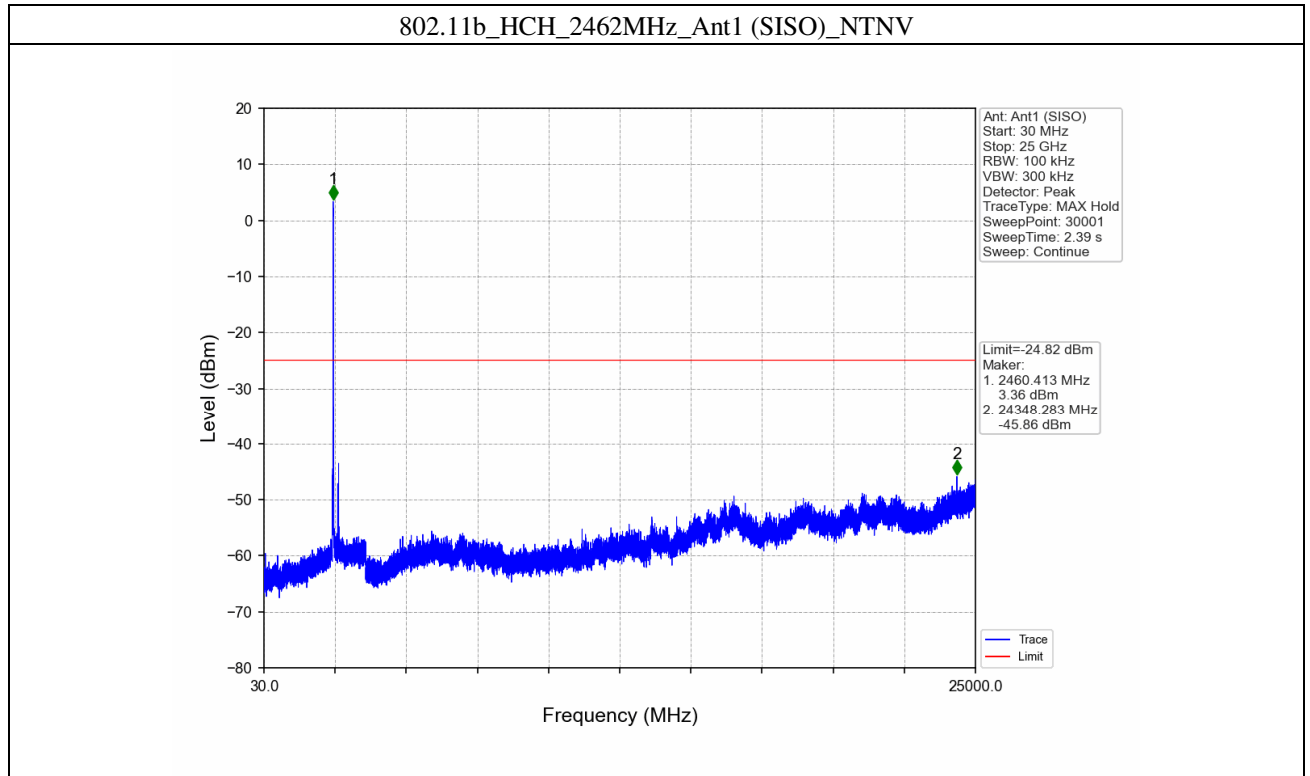


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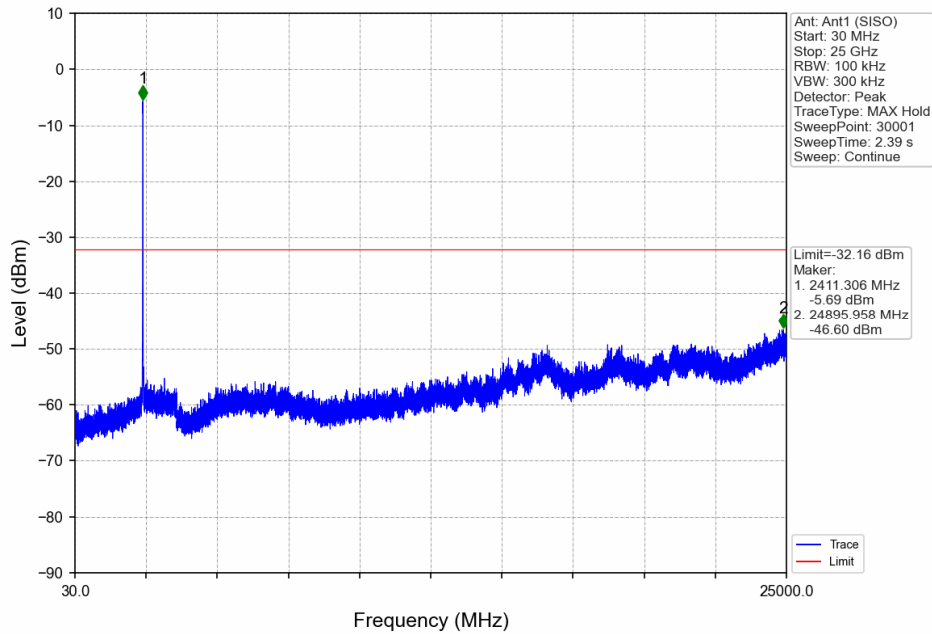


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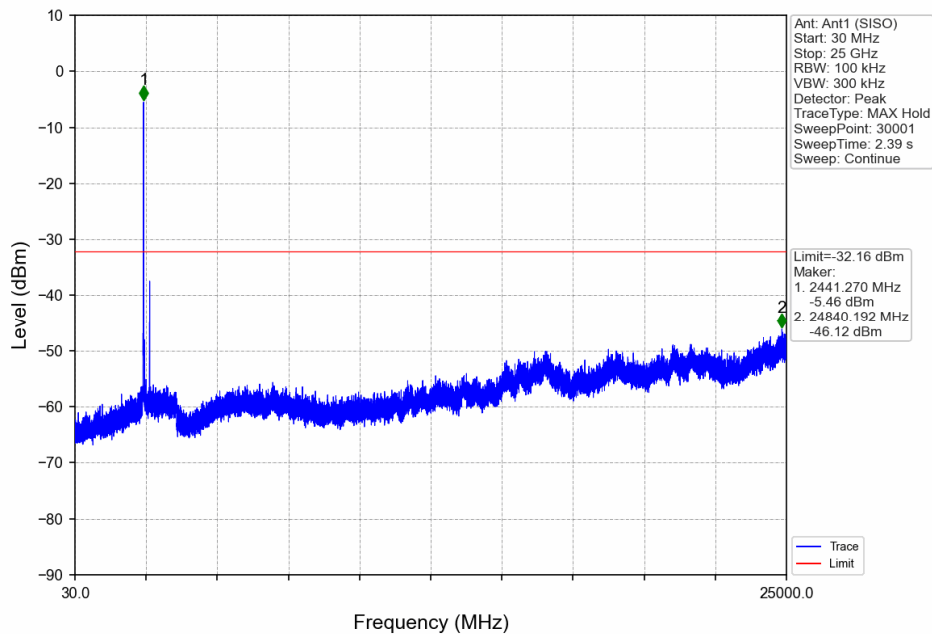


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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

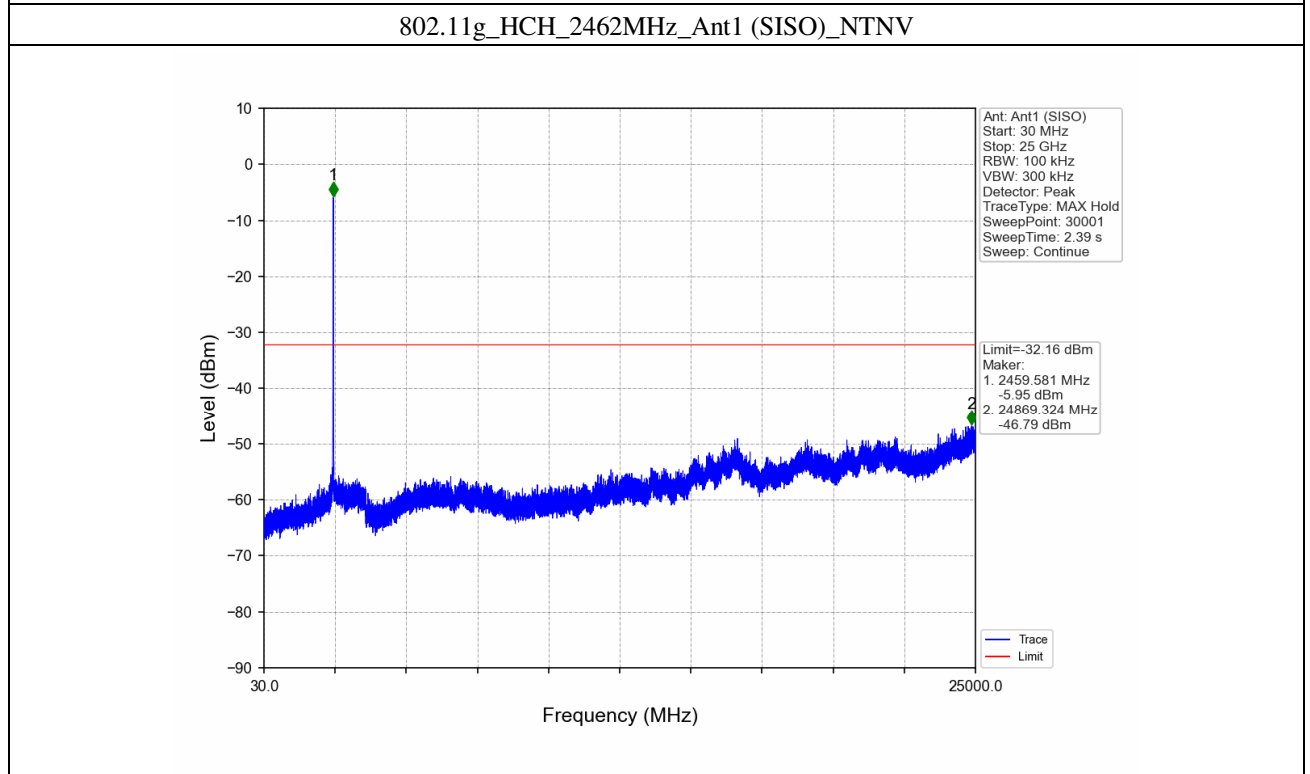
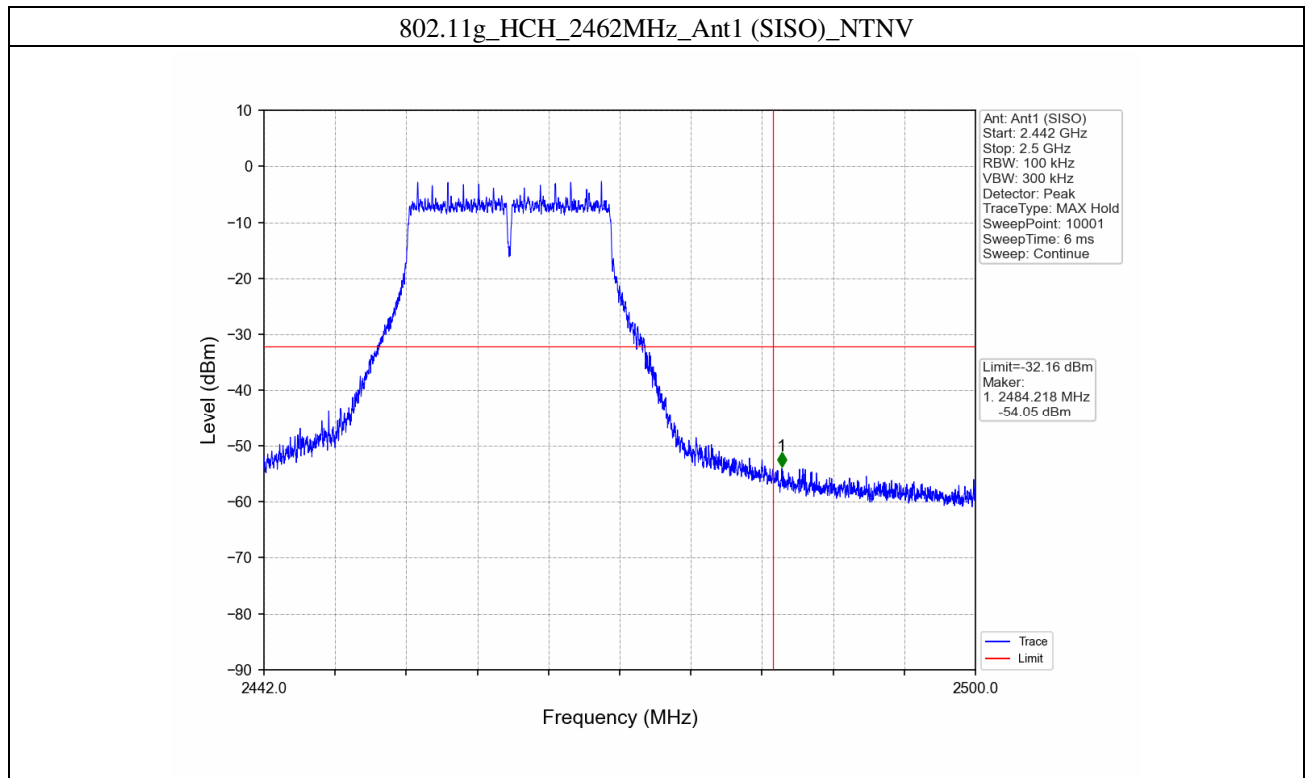


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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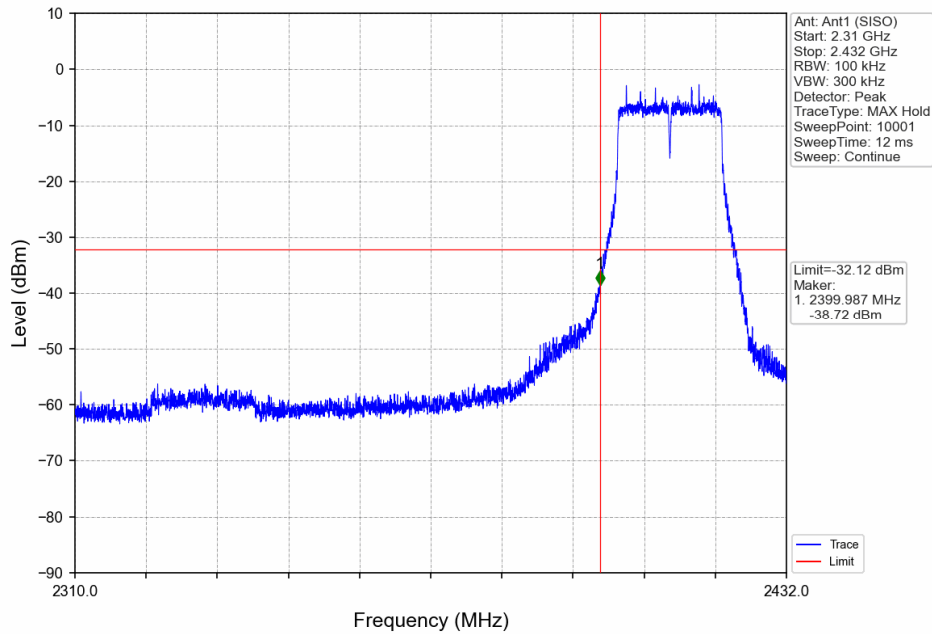
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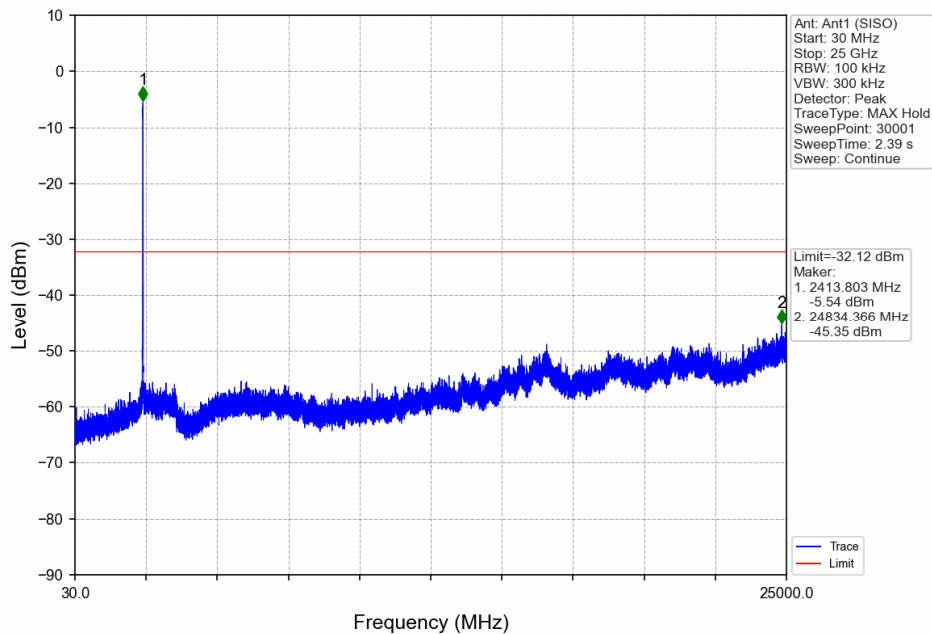
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



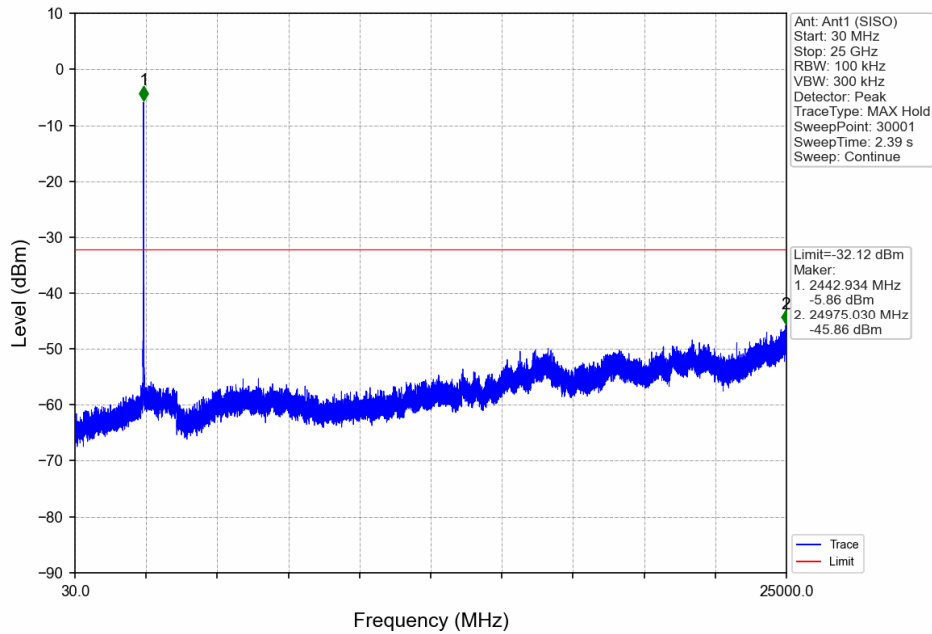
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



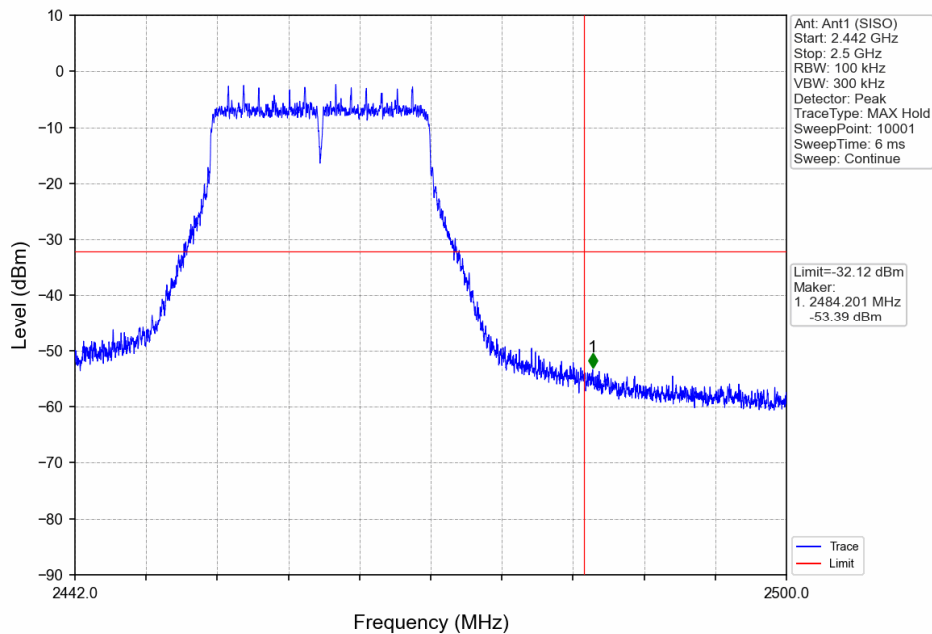
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

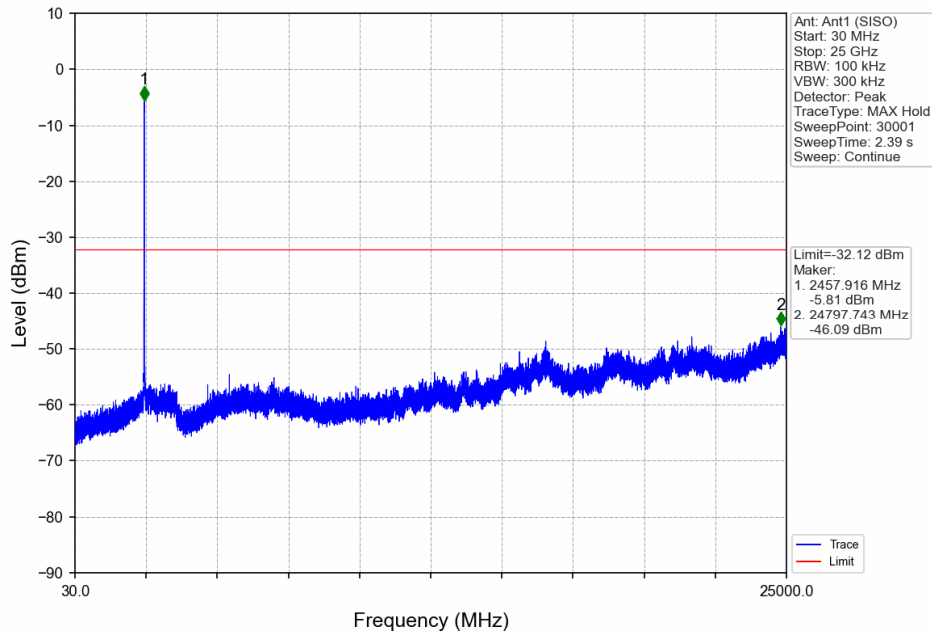


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

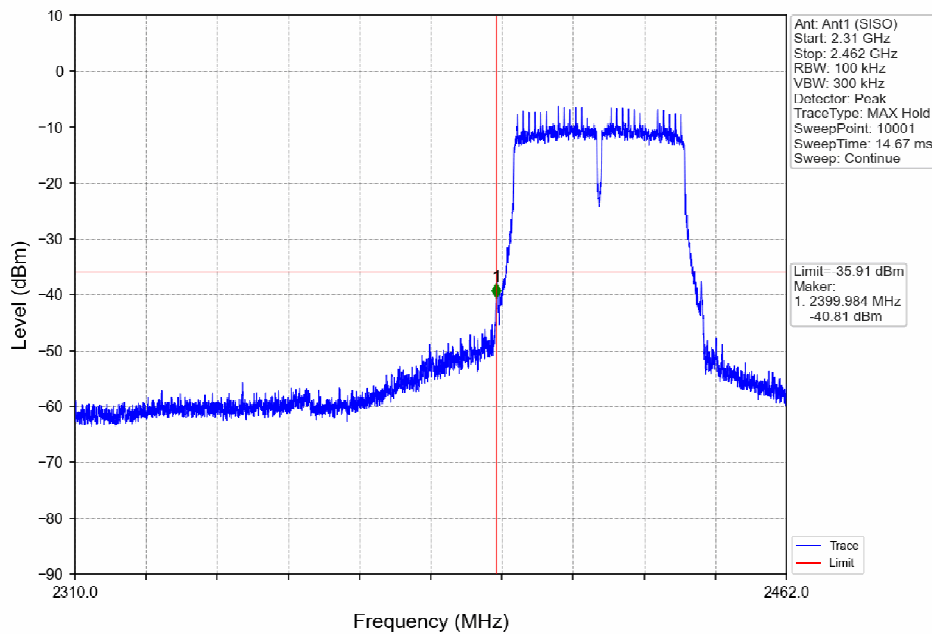


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

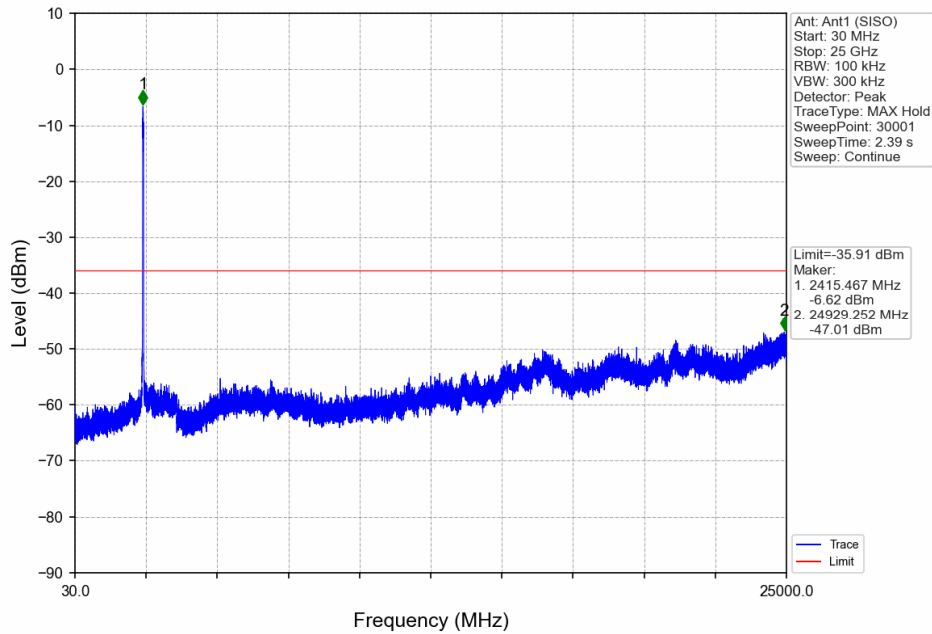


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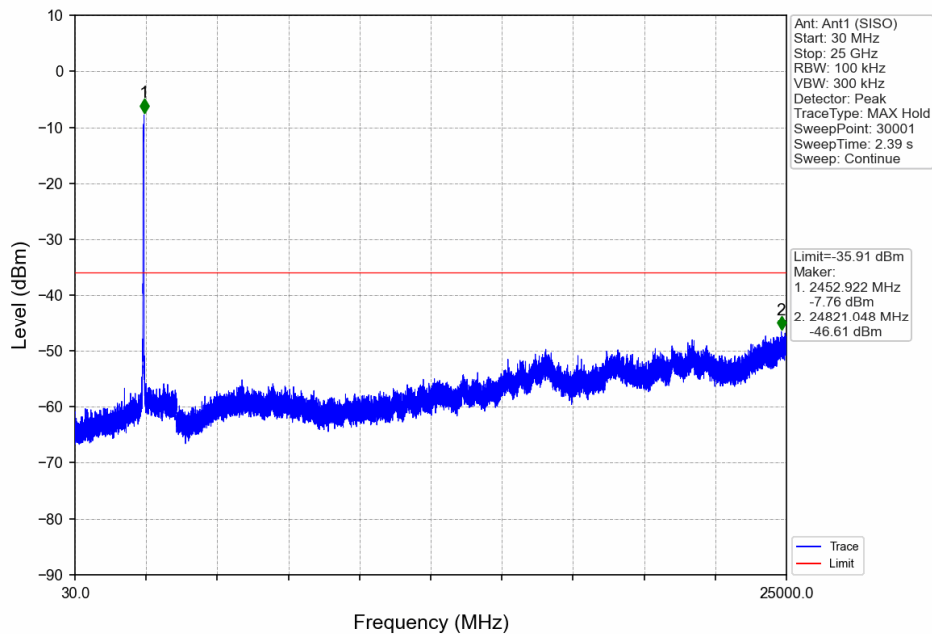


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

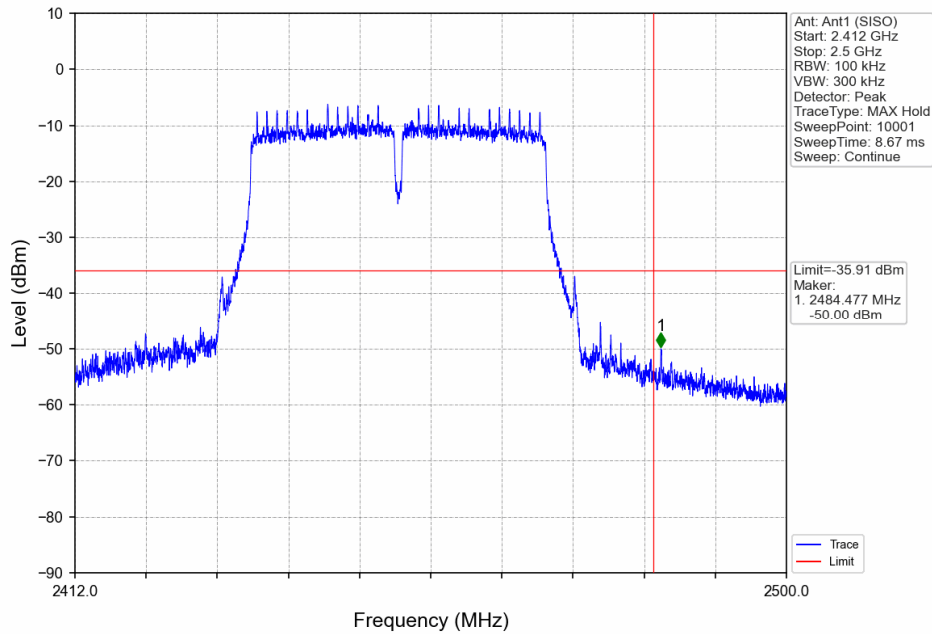


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

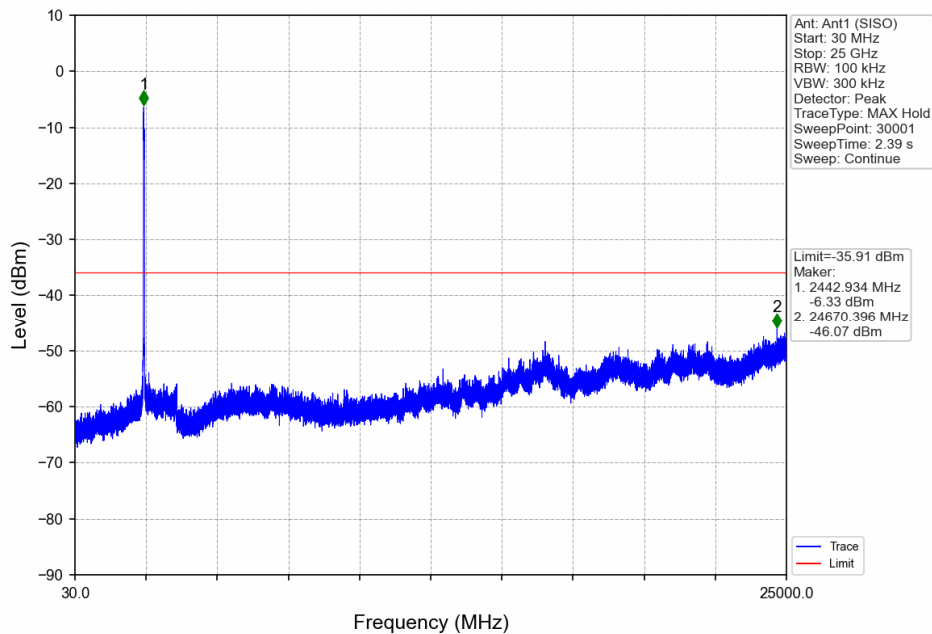


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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Appendix for 15.247- Aker crystal oscillator

1. Maximum Conducted Output Power

1.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Average Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	8.38	30	PASS
	2437	SISO	8.52	30	PASS
	2462	SISO	8.51	30	PASS
802.11g	2412	SISO	8.72	30	PASS
	2437	SISO	8.65	30	PASS
	2462	SISO	8.84	30	PASS
802.11n(HT20)	2412	SISO	8.94	30	PASS
	2437	SISO	8.53	30	PASS
	2462	SISO	8.81	30	PASS
802.11n(HT40)	2422	SISO	7.88	30	PASS
	2437	SISO	7.66	30	PASS
	2452	SISO	7.38	30	PASS

2. Unwanted Emissions in Non-restricted Frequency Bands

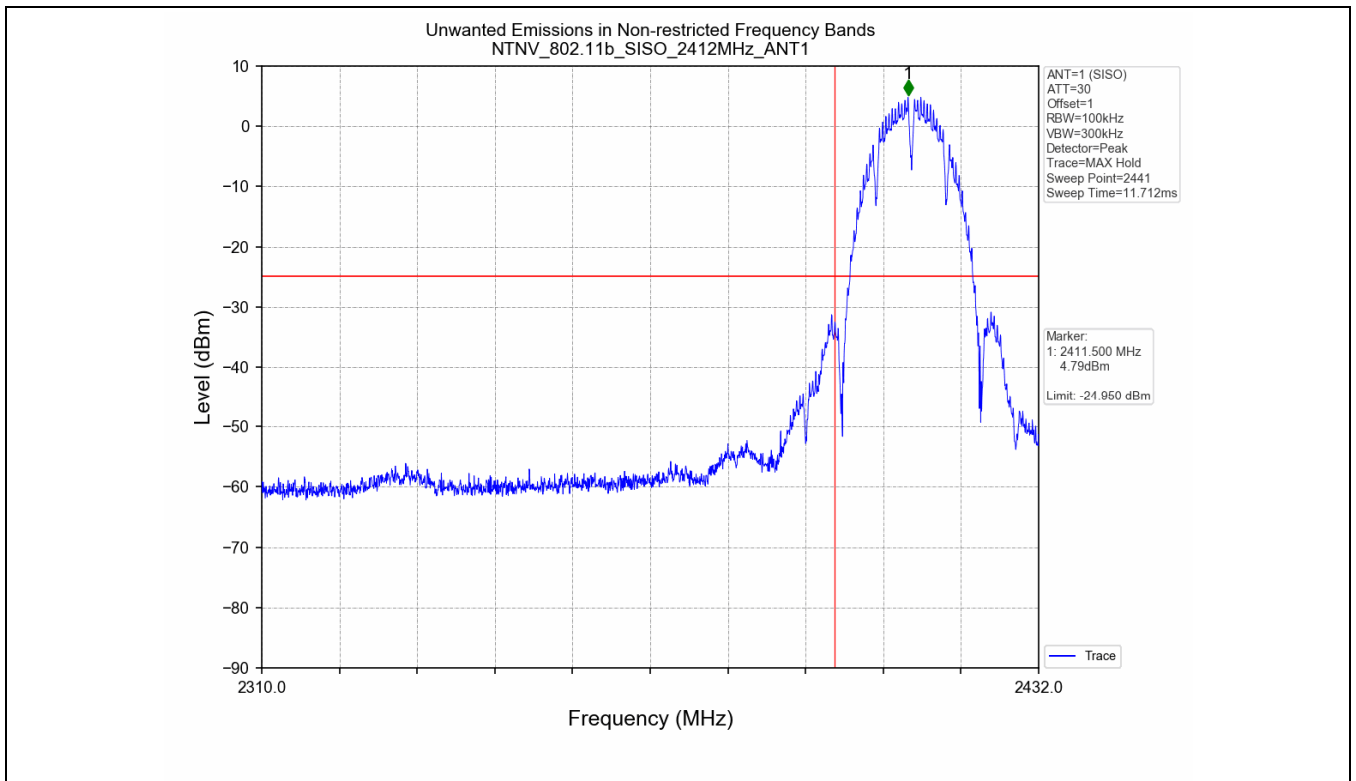
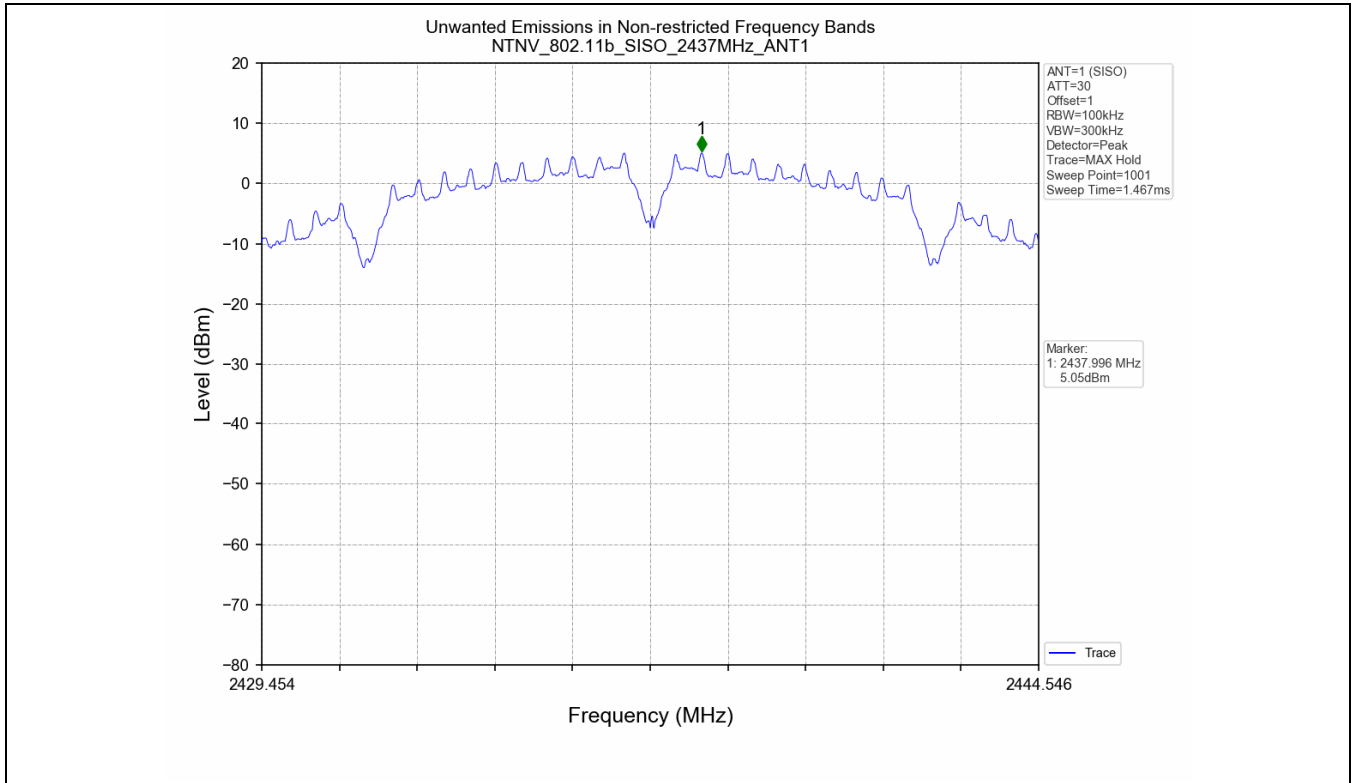
2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-24.95	PASS
	2437	SISO	1	Refer to test graph	-24.95	PASS
	2462	SISO	1	Refer to test graph	-24.95	PASS
802.11g	2412	SISO	1	Refer to test graph	-31.99	PASS
	2437	SISO	1	Refer to test graph	-31.99	PASS
	2462	SISO	1	Refer to test graph	-31.99	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-32.06	PASS
	2437	SISO	1	Refer to test graph	-32.06	PASS
	2462	SISO	1	Refer to test graph	-32.06	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-35.89	PASS
	2437	SISO	1	Refer to test graph	-35.89	PASS
	2452	SISO	1	Refer to test graph	-35.89	PASS

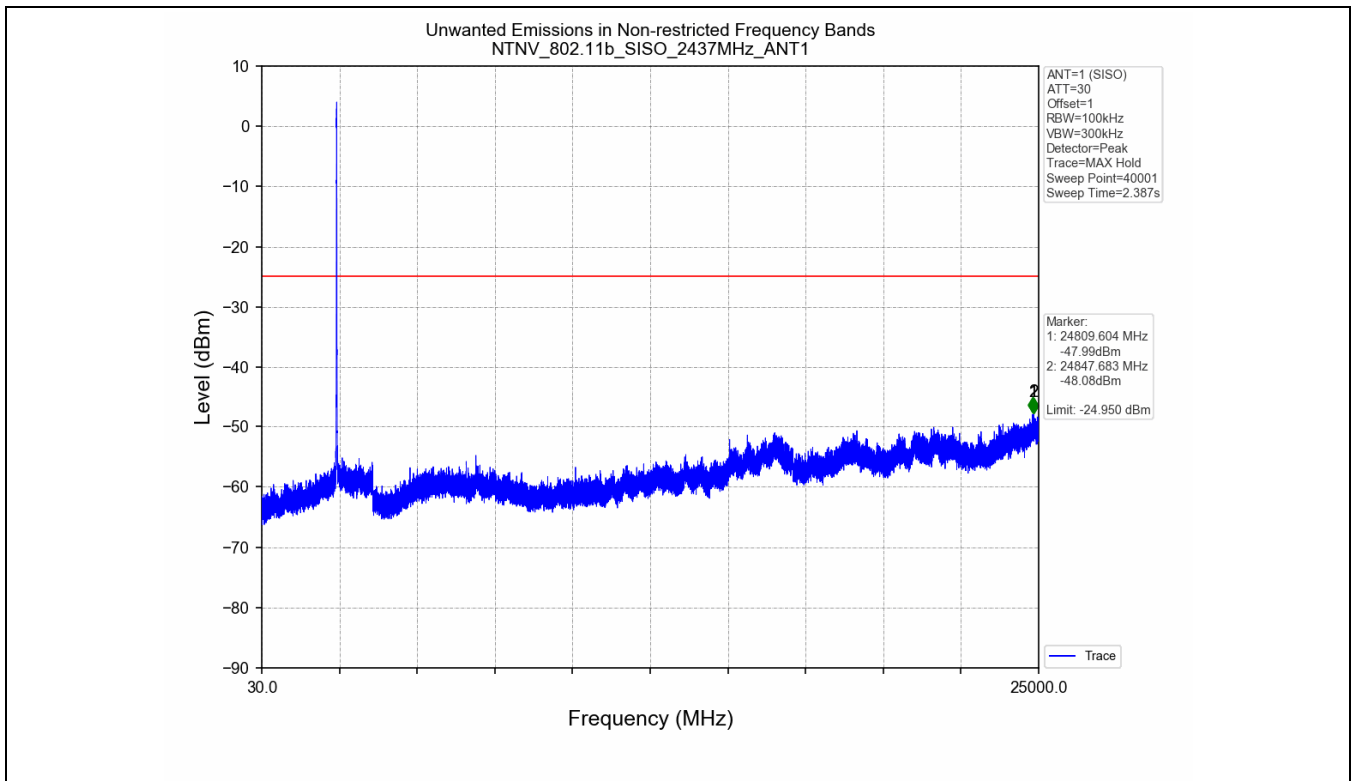
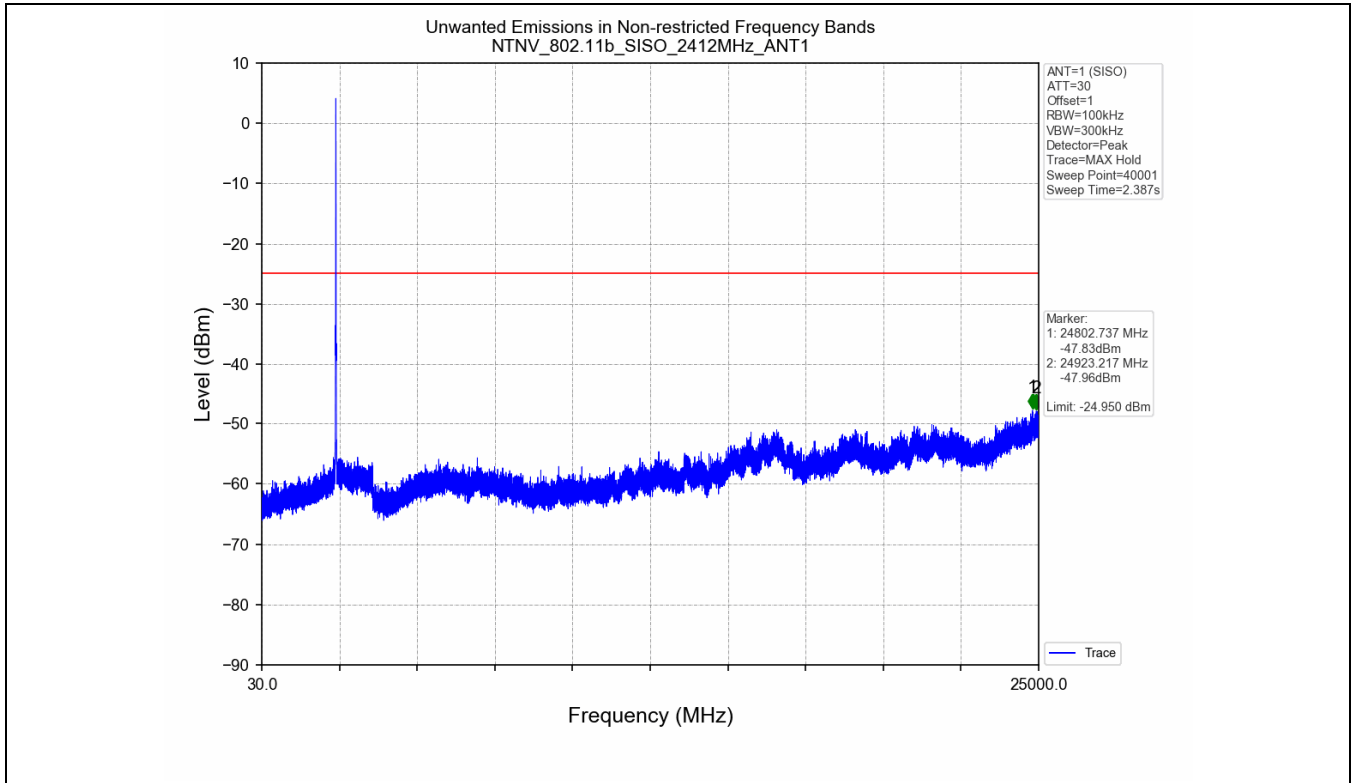
5.2 Test Graph



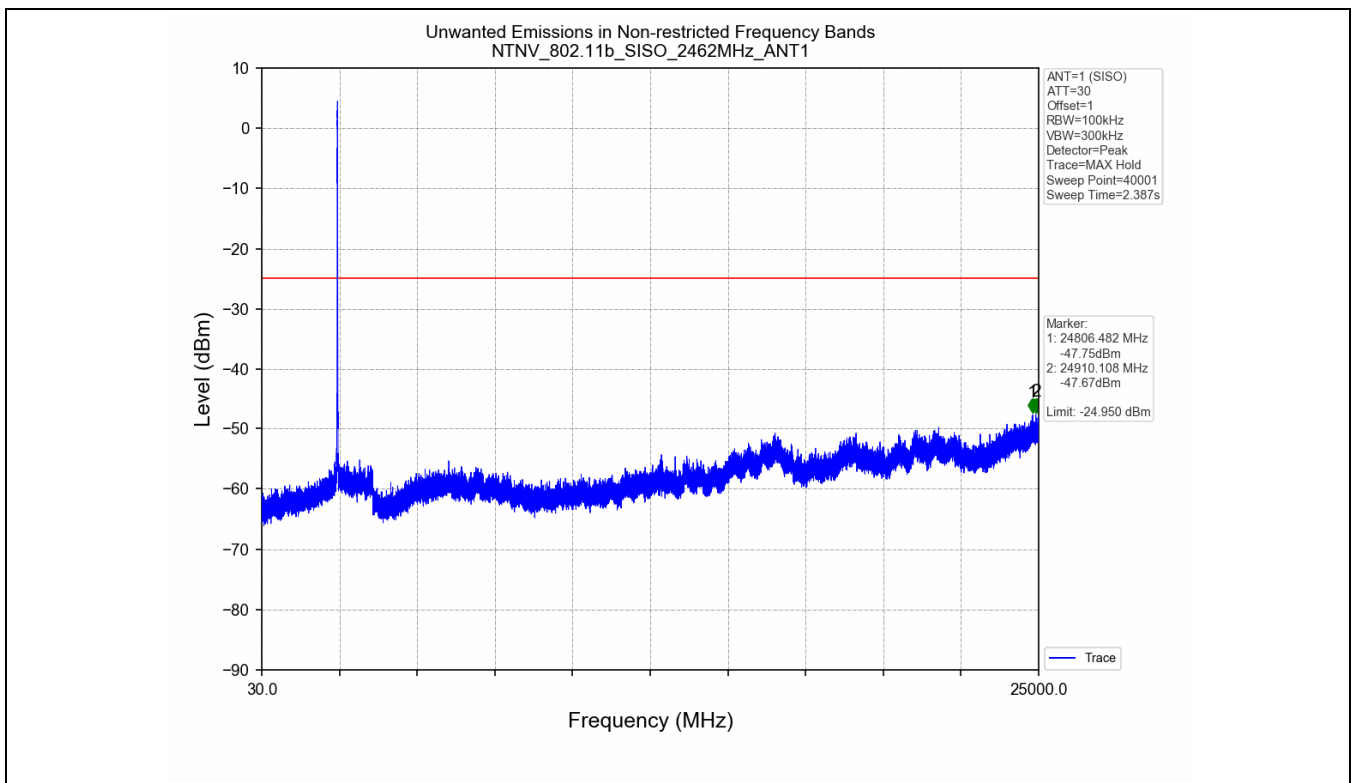
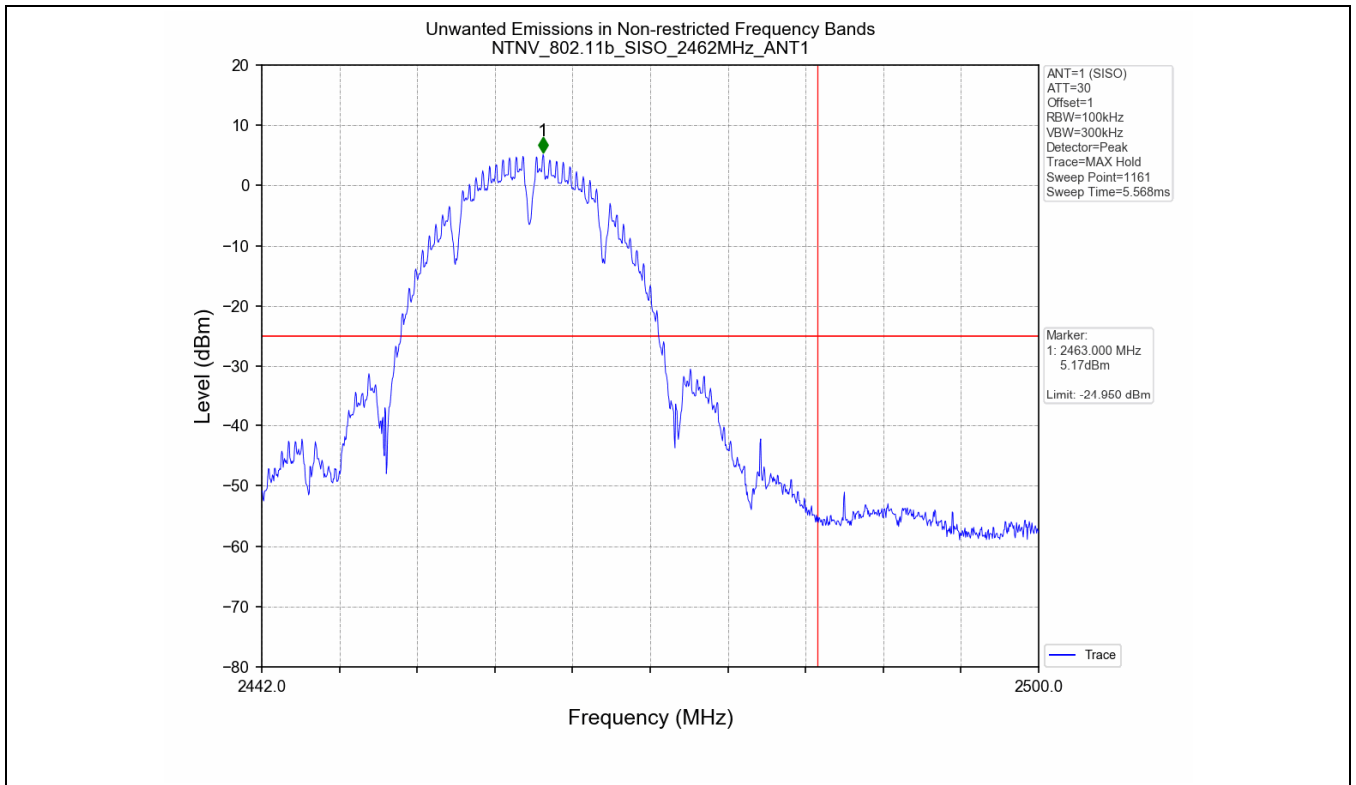
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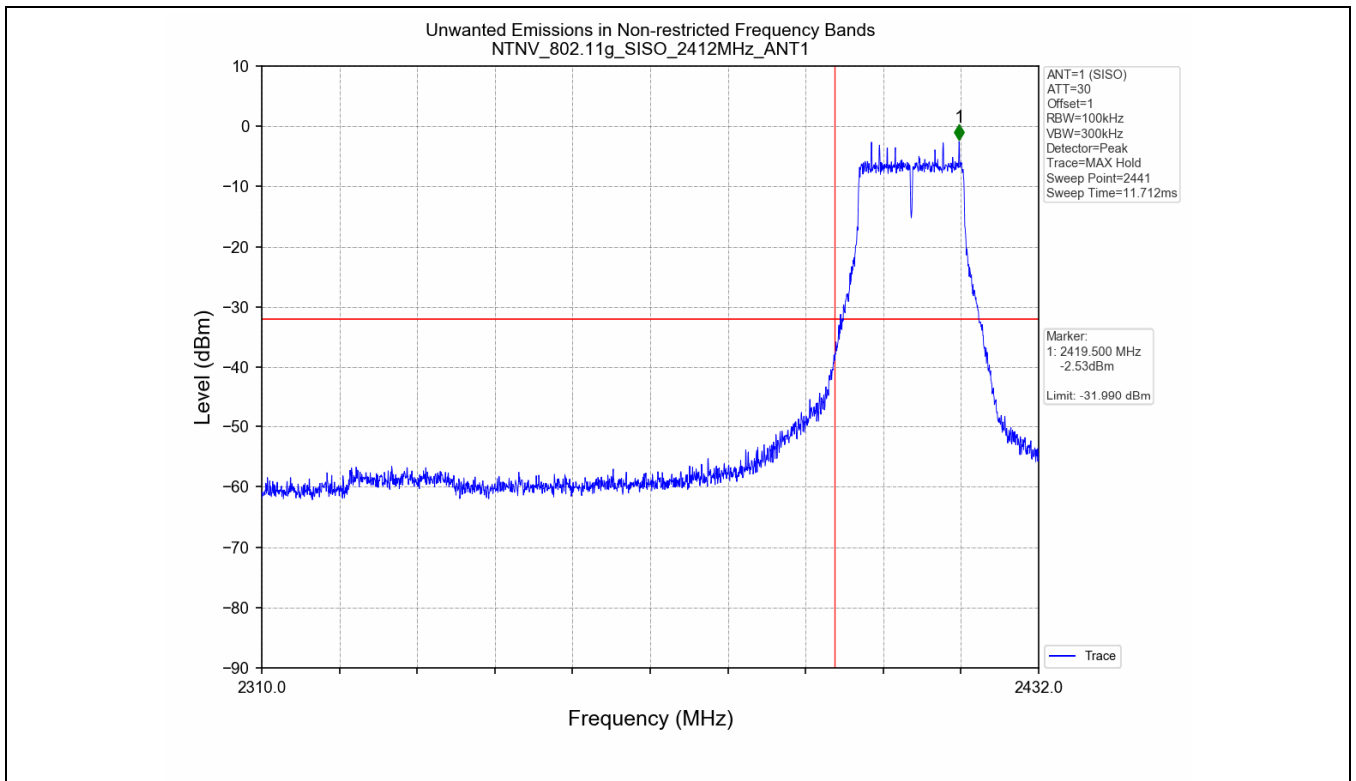
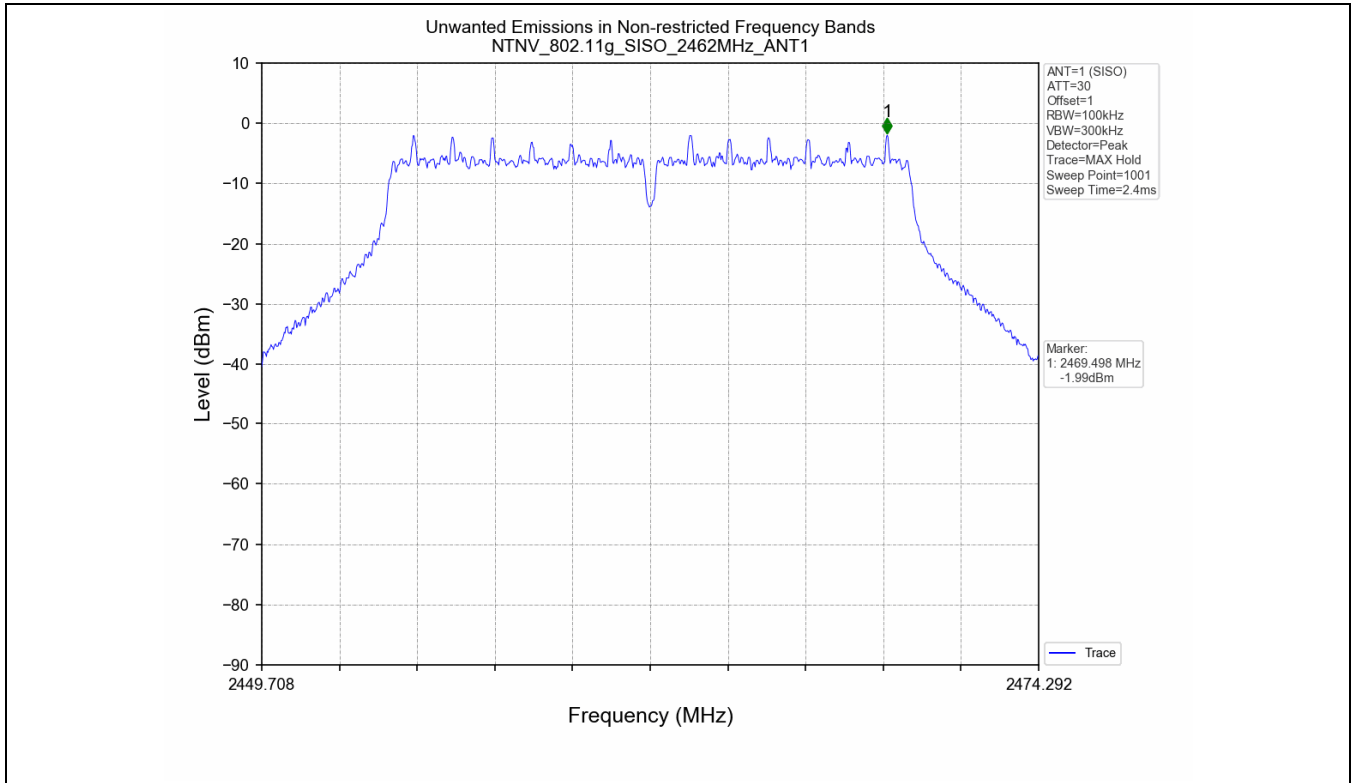
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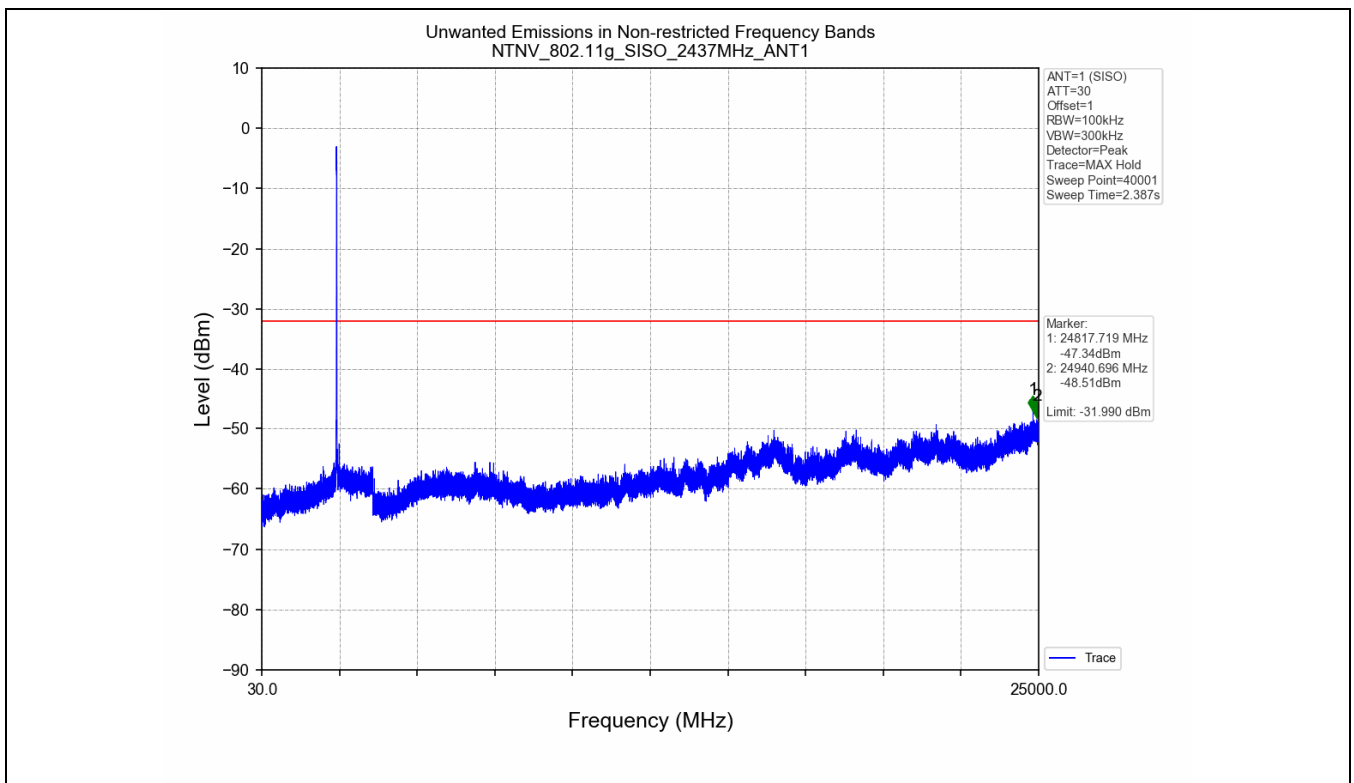
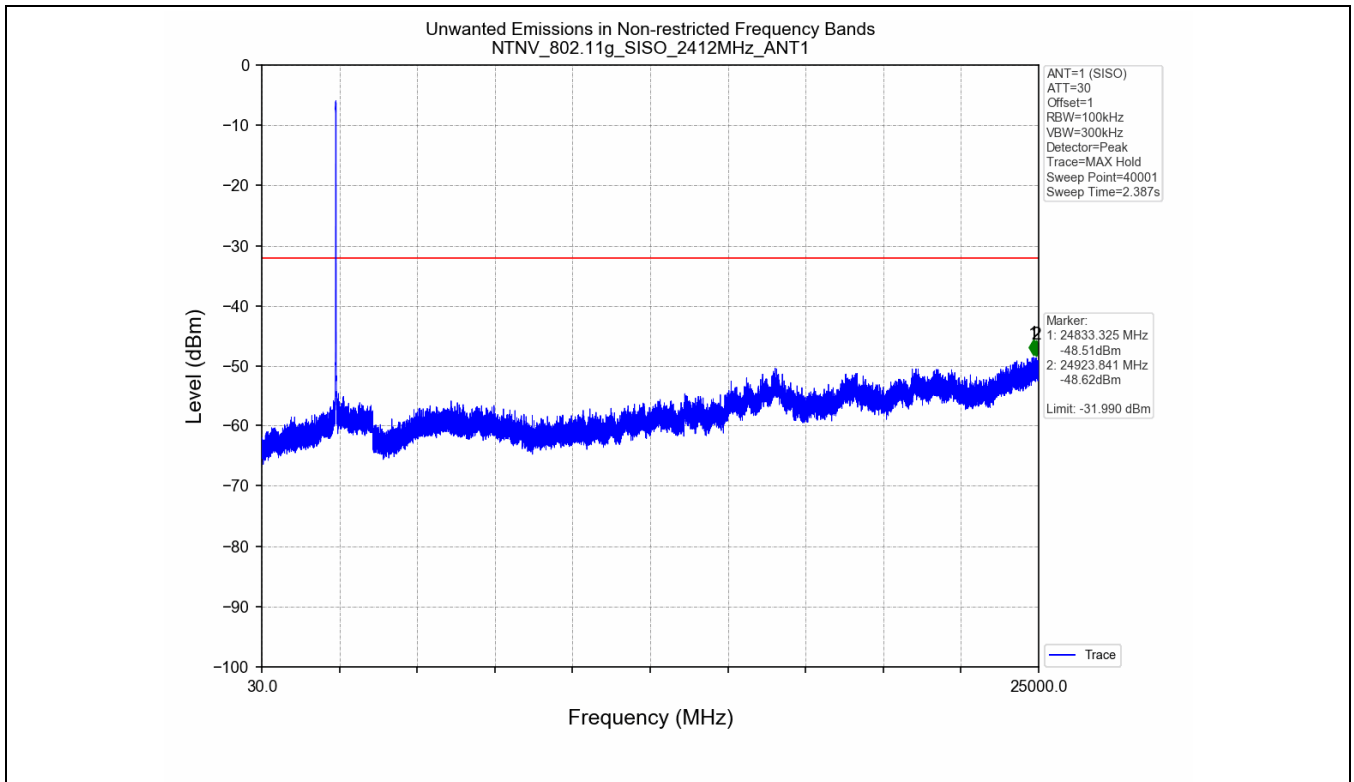


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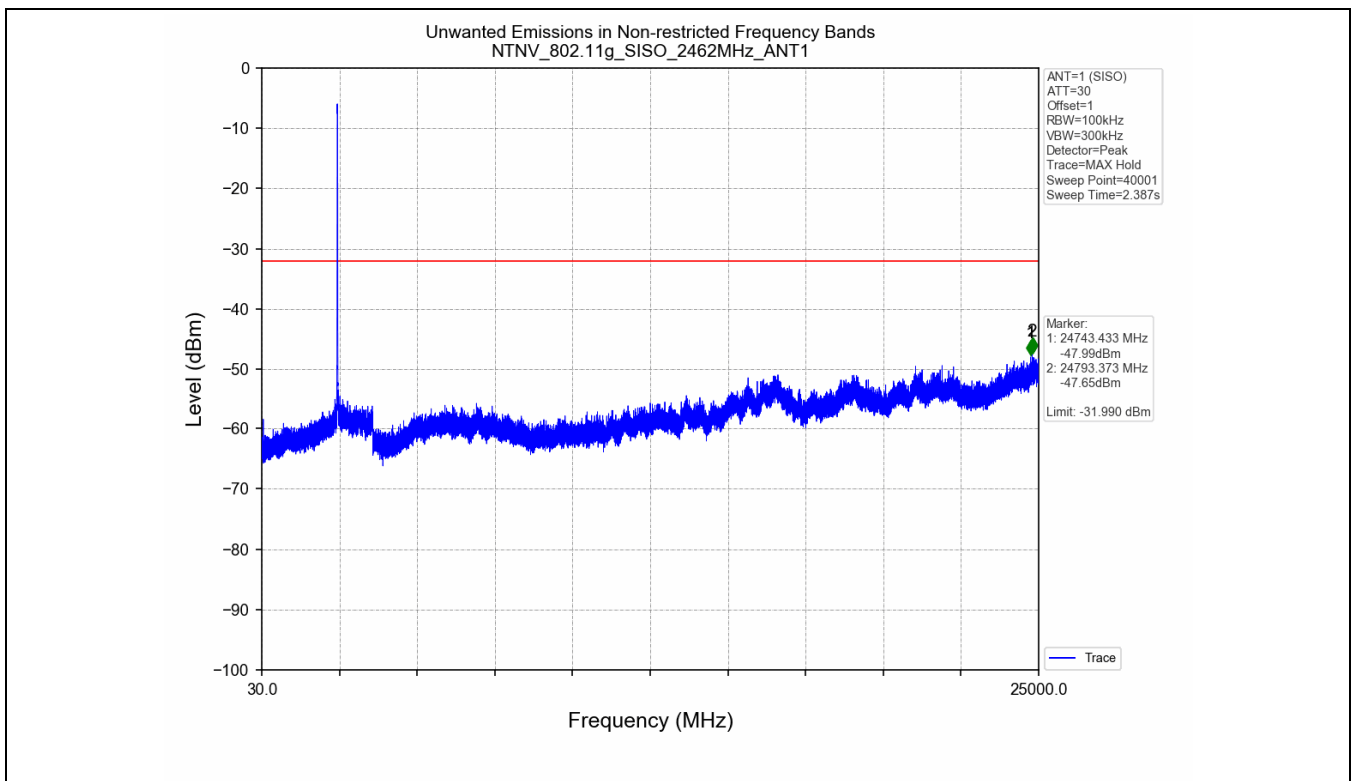
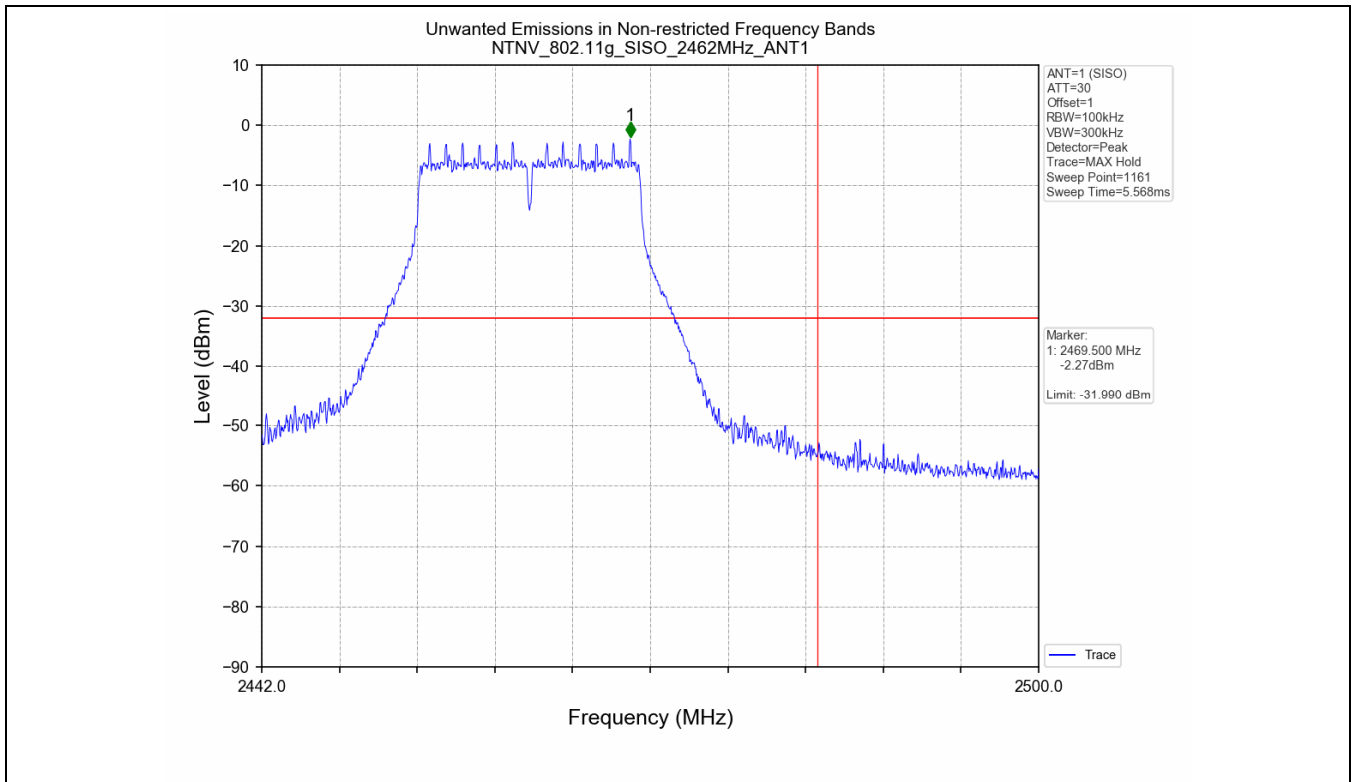


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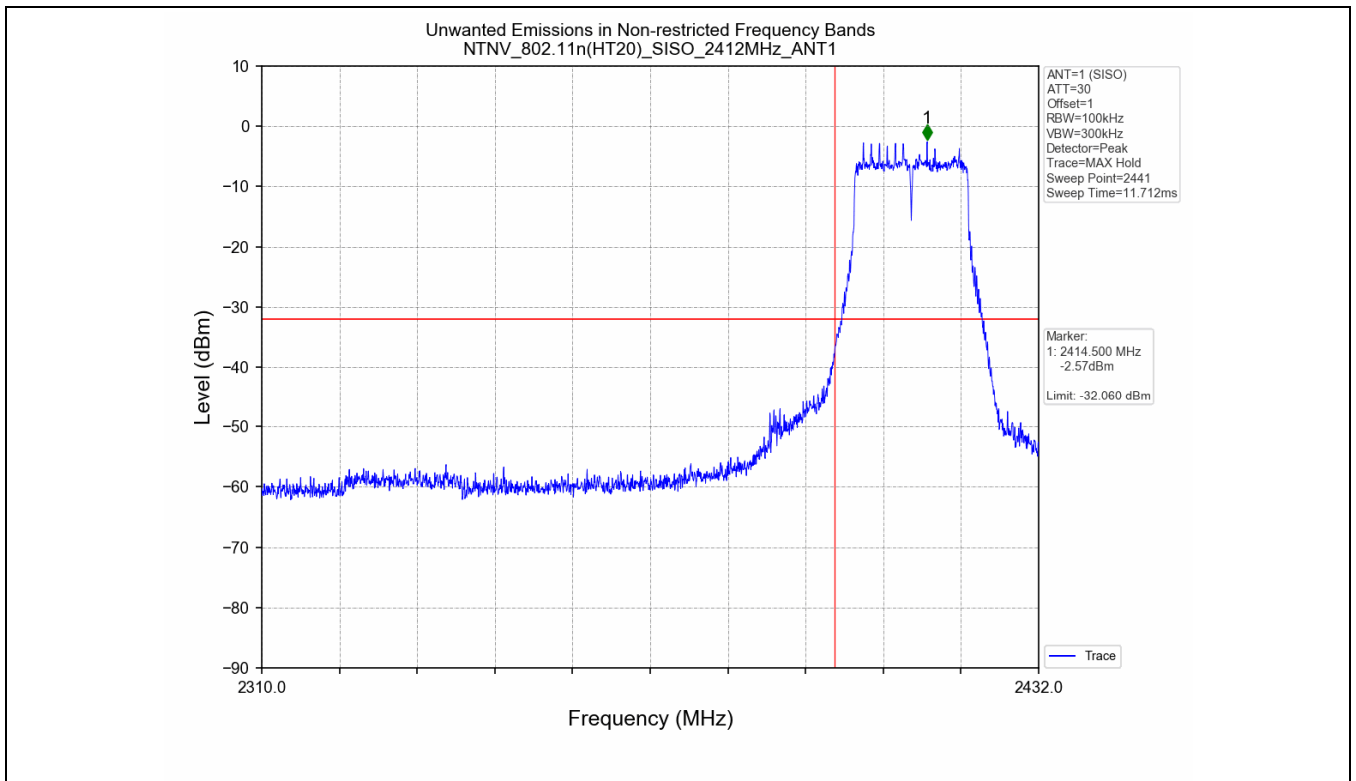
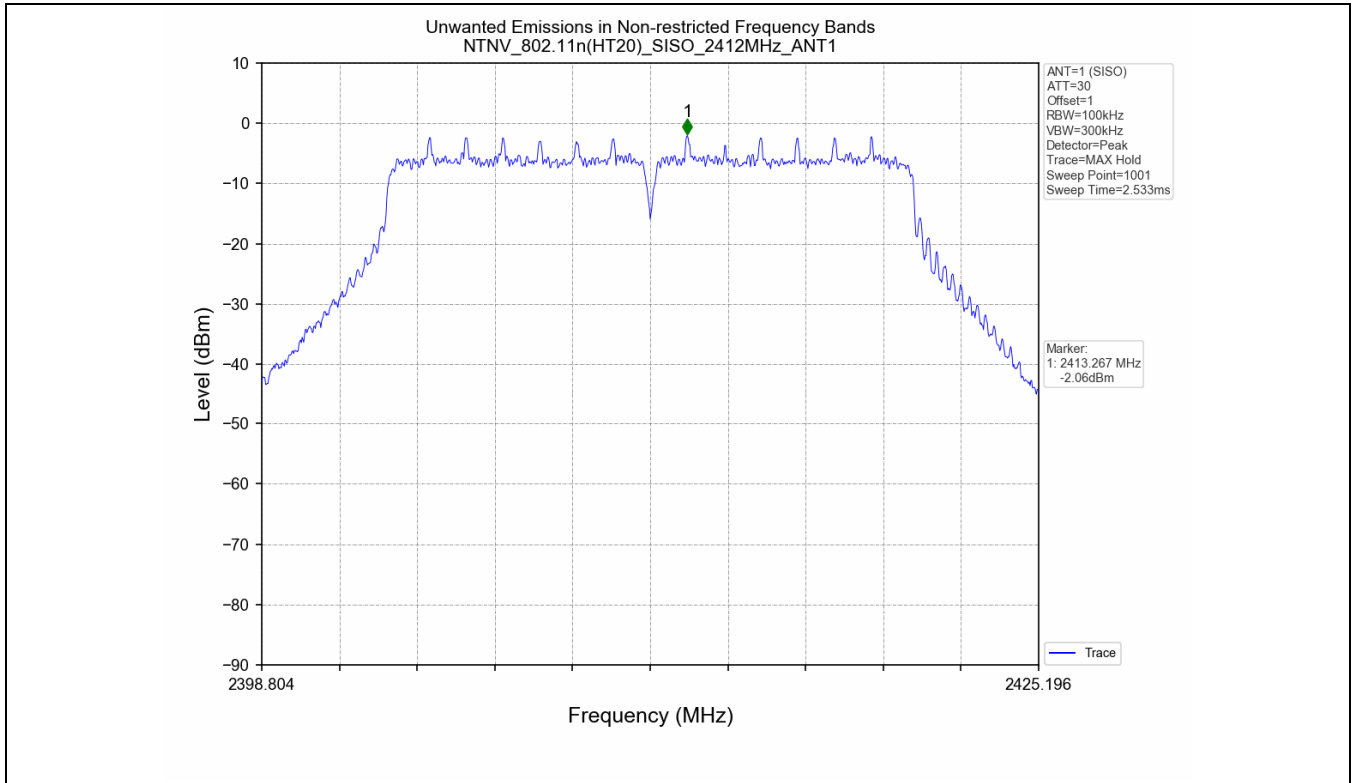
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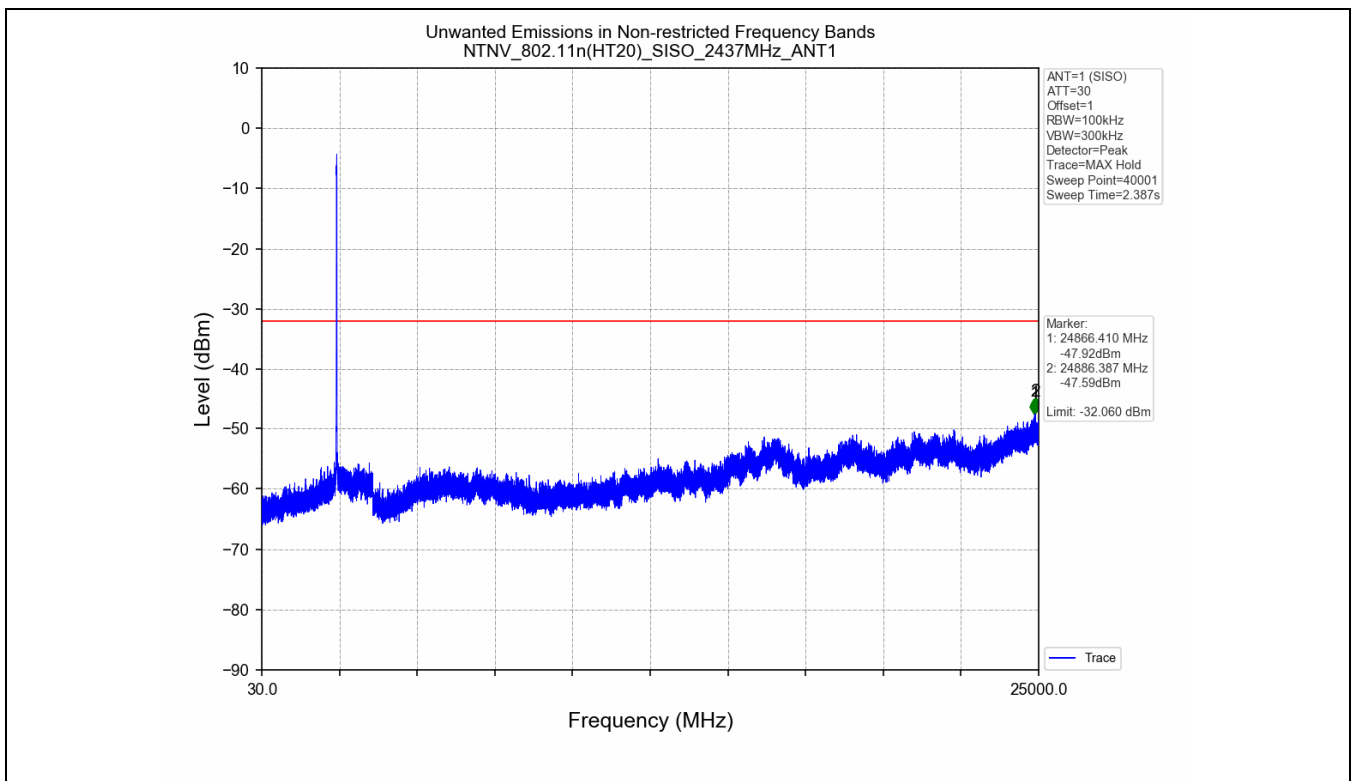
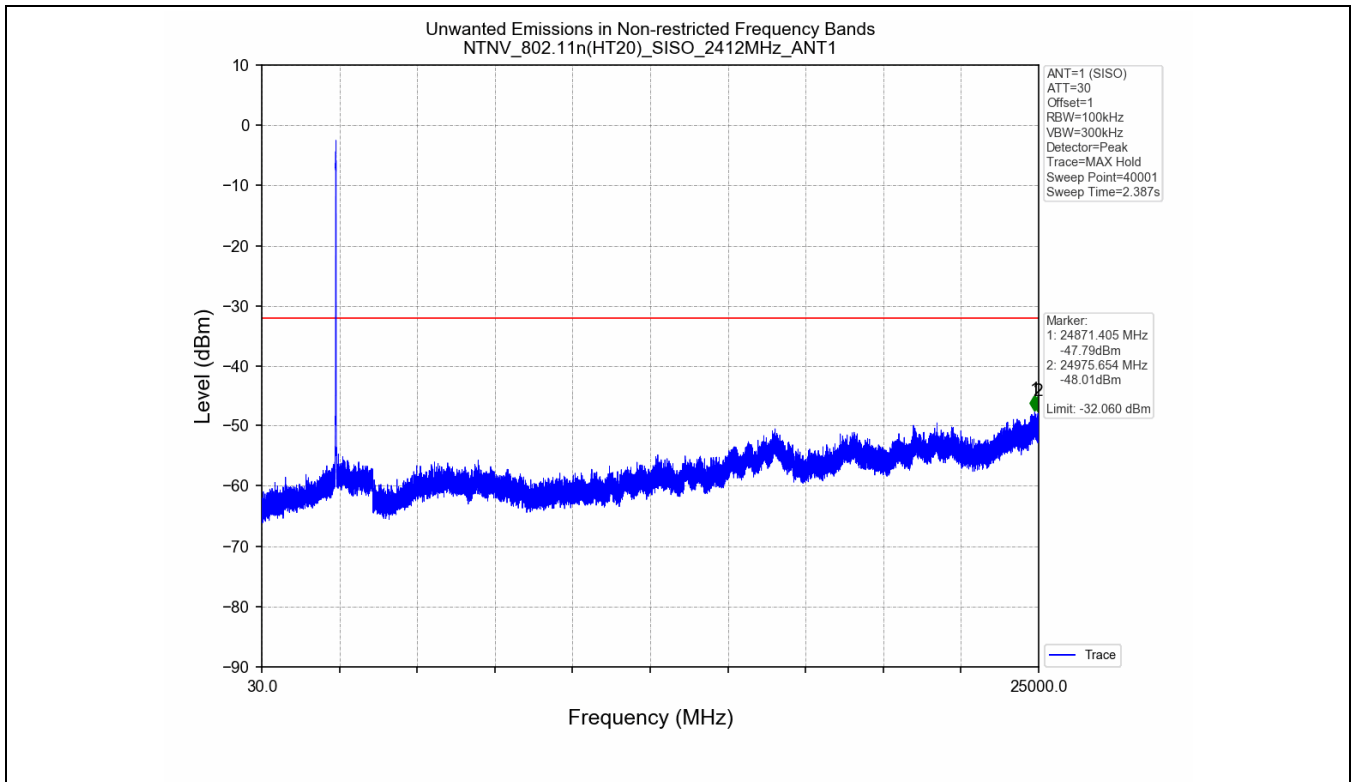
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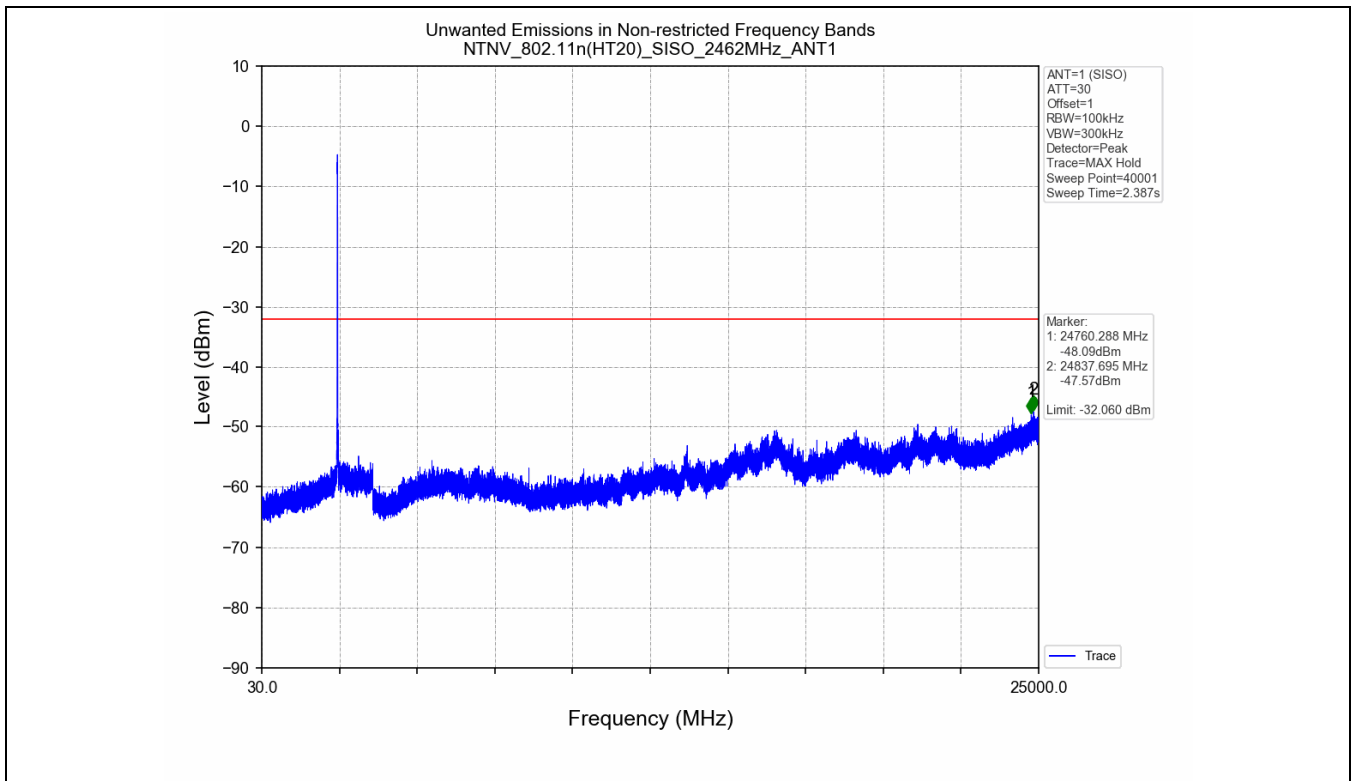
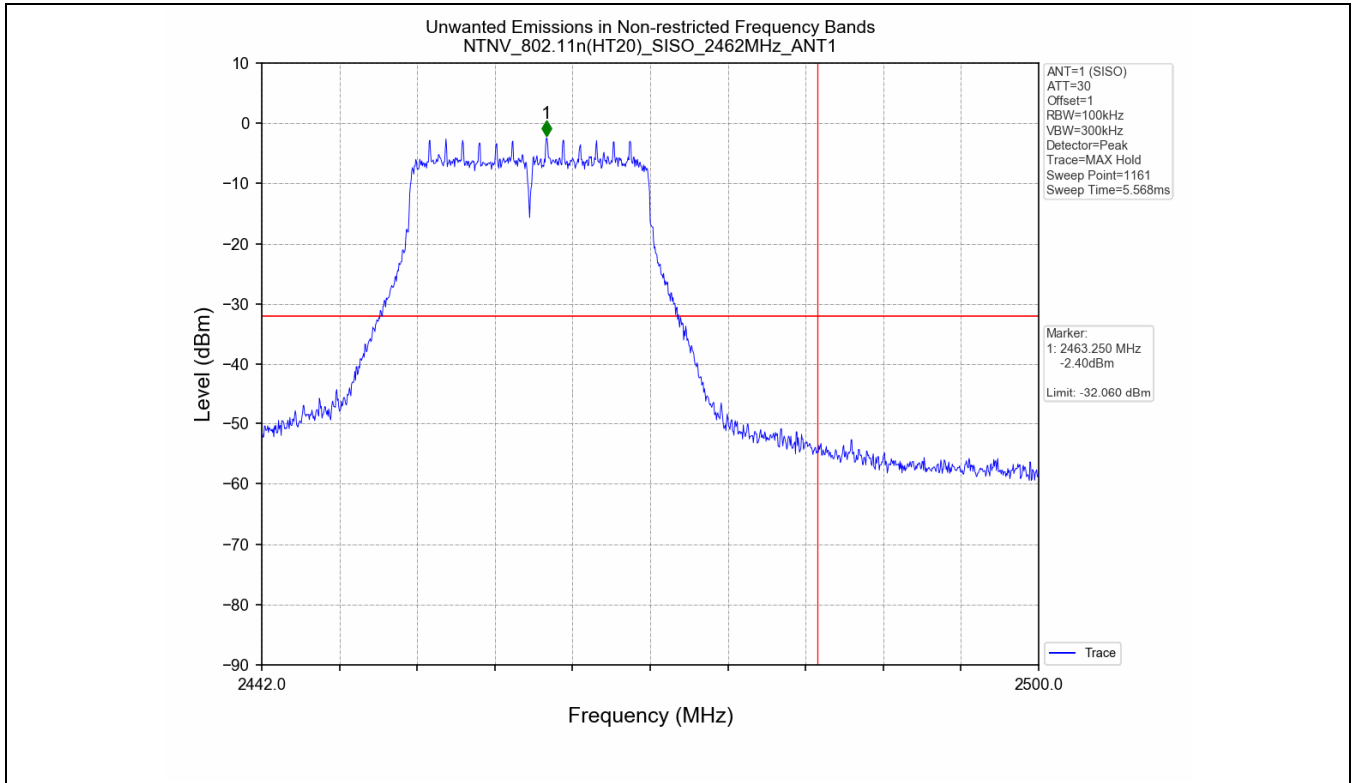
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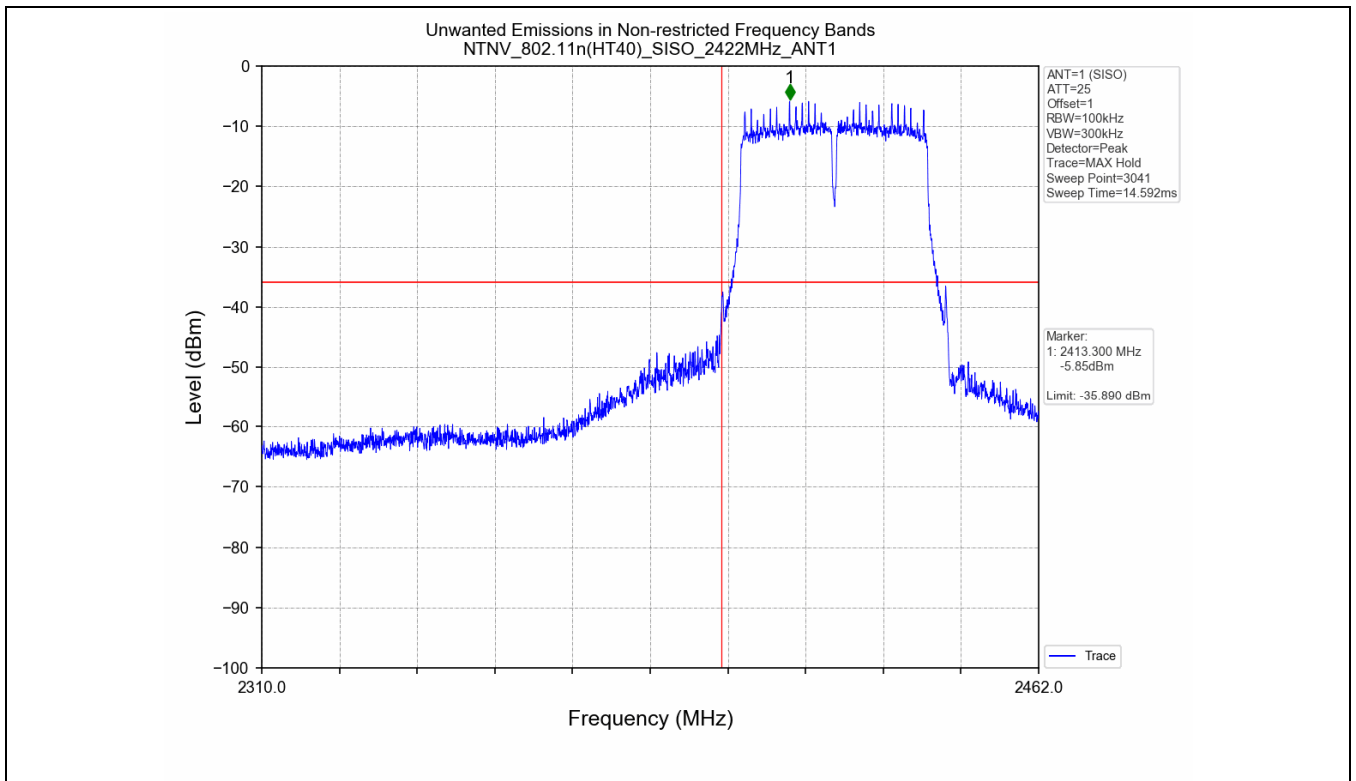
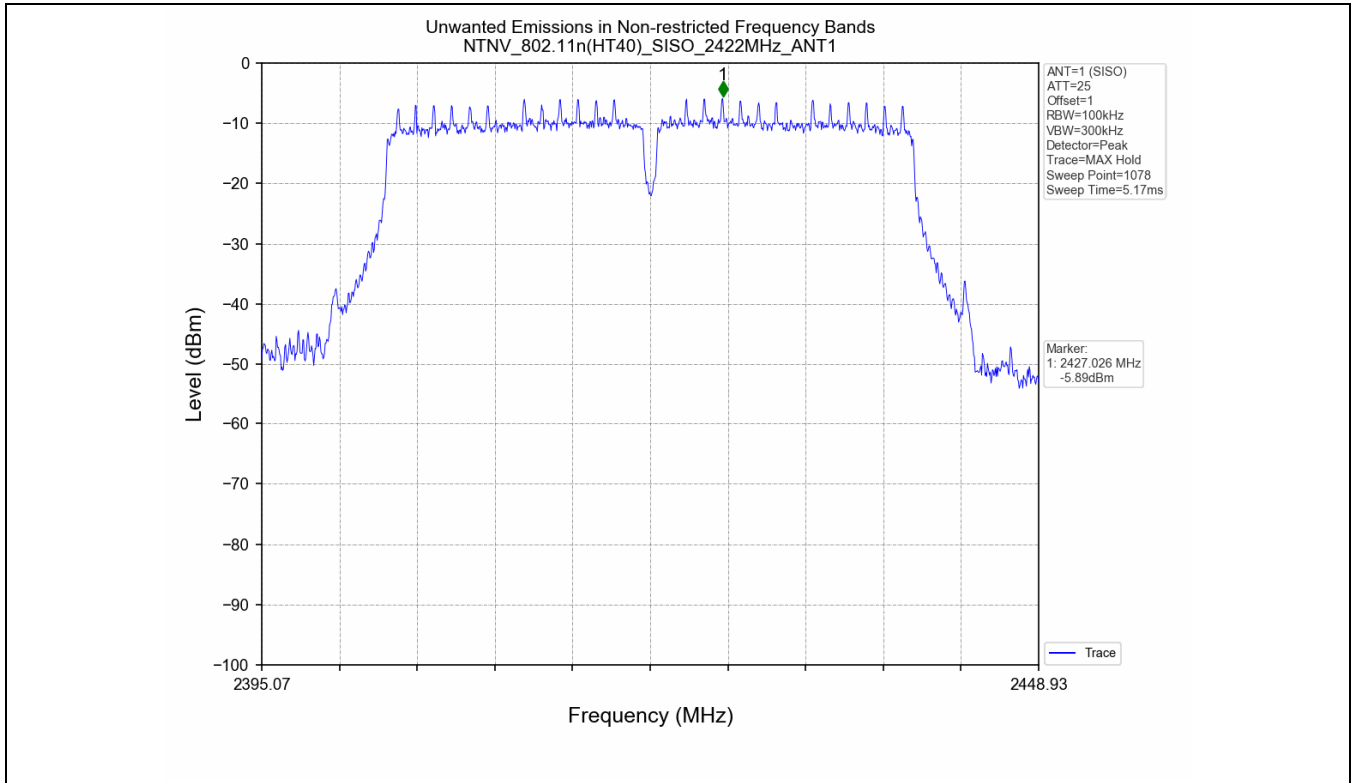
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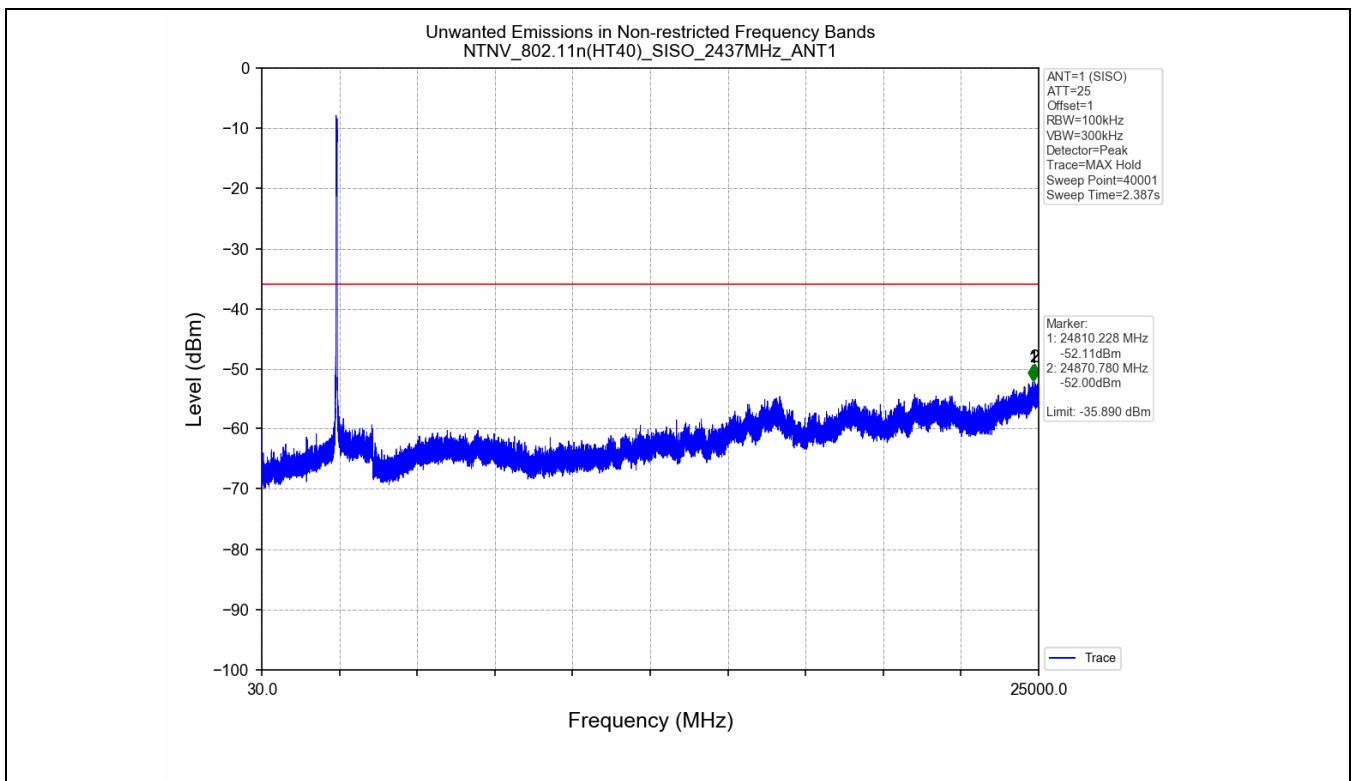
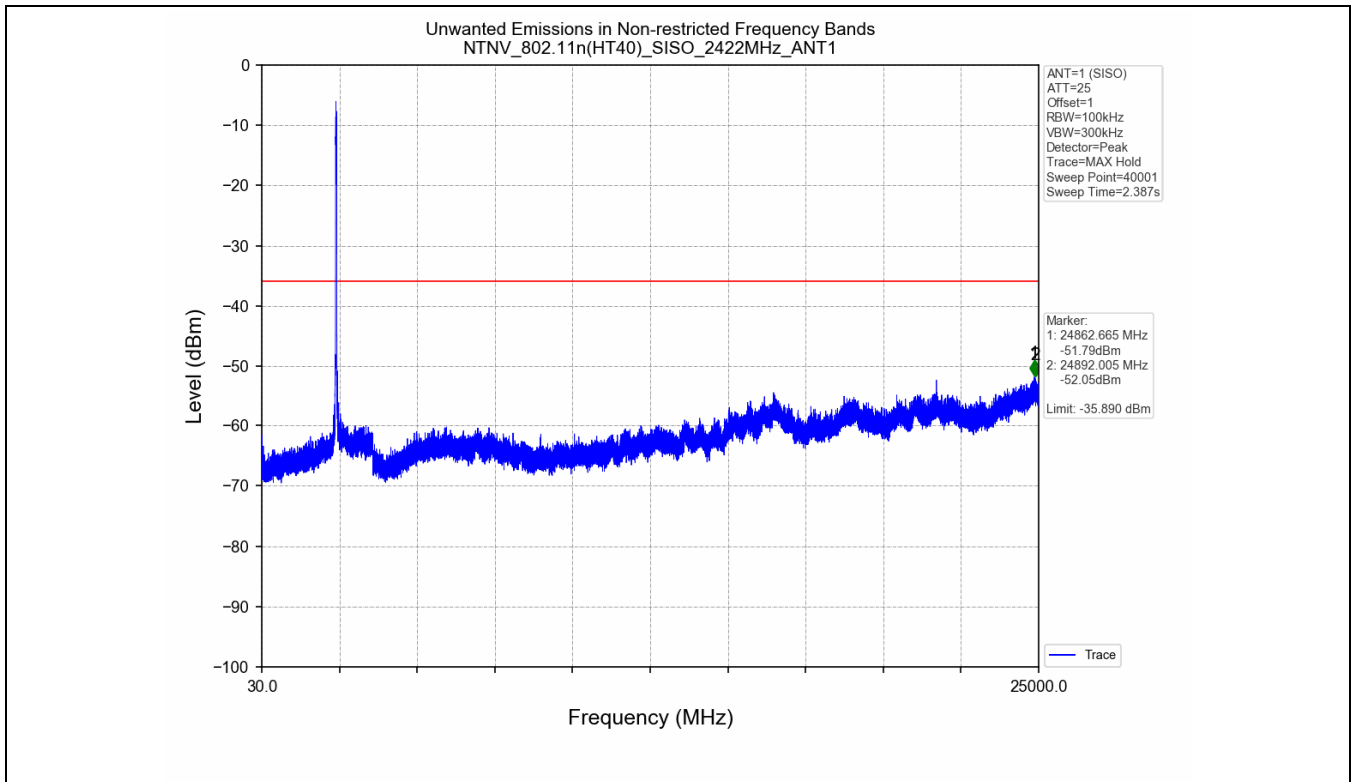
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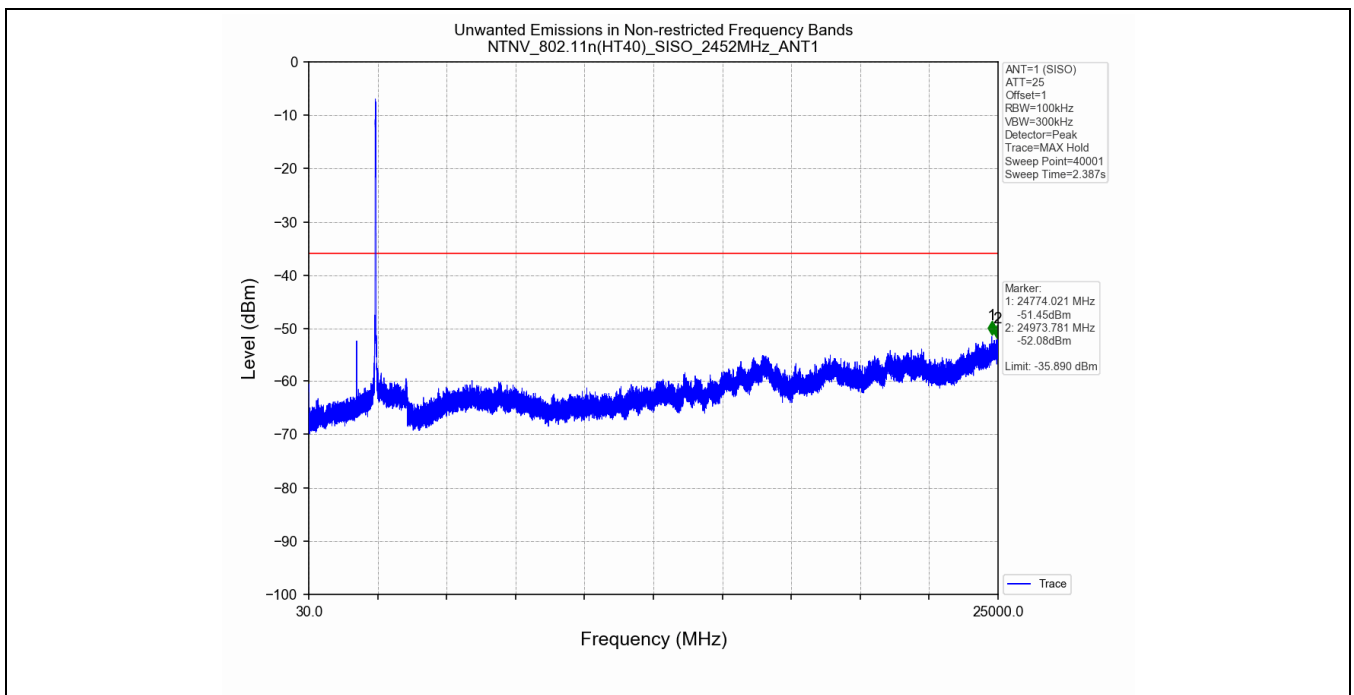
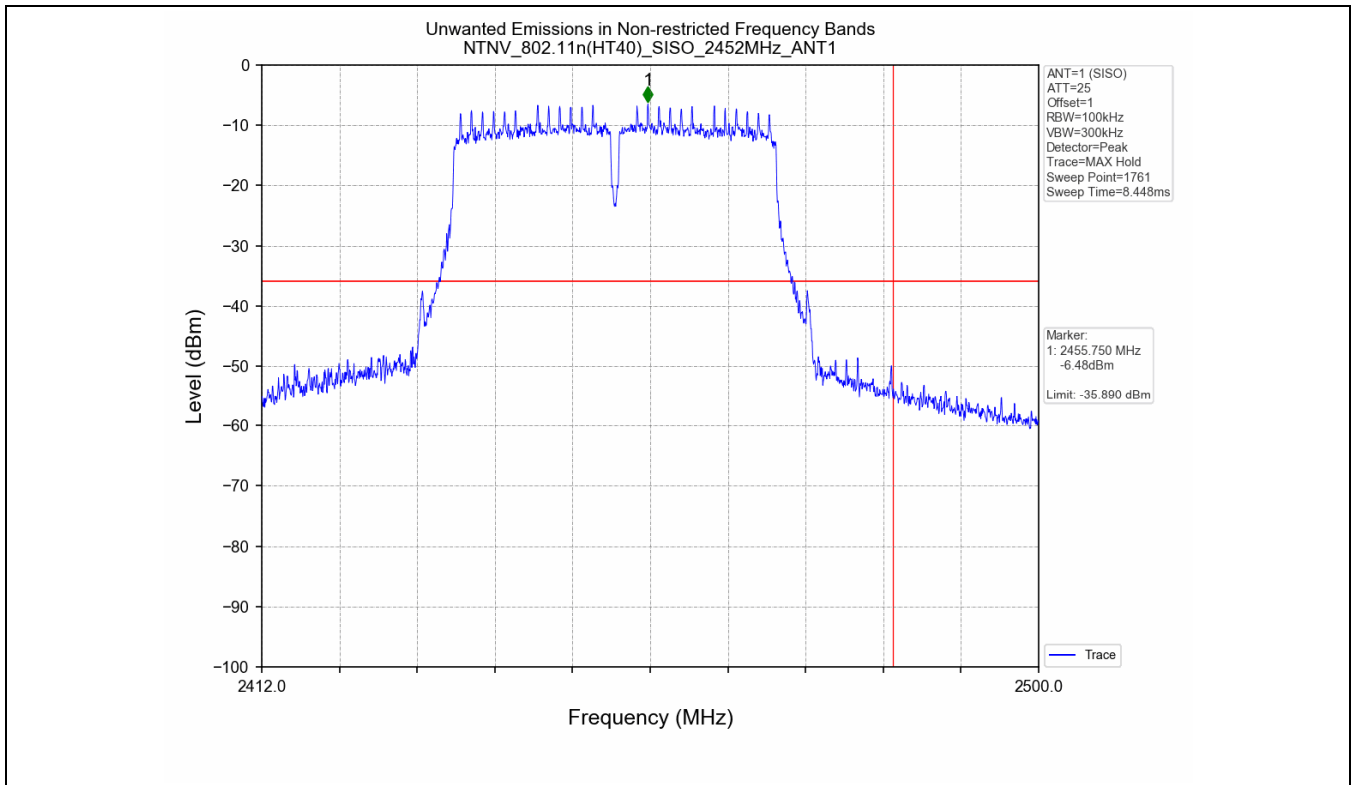


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