



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230200045503

Page: 1 of 98

TEST REPORT

Application No.:

SZCR2302000455ET

Applicant:

Shantou Chenghai Systech Toys Co.,Ltd.

Address of Applicant:

LeCheng Building, Huafu, Guangyi Street, Chenghai District, Shantou City, Guangdong Province, China

Manufacturer:

Shantou Chenghai Systech Toys Co.,Ltd.

Address of Manufacturer:

LeCheng Building, Huafu, Guangyi Street, Chenghai District, Shantou City, Guangdong Province, China

Factory:

Shantou Chenghai Systech Toys Co.,Ltd.

Address of Factory:

LeCheng Building, Huafu, Guangyi Street, Chenghai District, Shantou City, Guangdong Province, China

Equipment Under Test (EUT):

EUT Name: RC DRONE

Model No.:

S1, S2, S3, S5, S6, S7, S8, S9, S161, S162, S163, S165, S166, S167, S168, S169, M1, M2, M3, M5, M6, M7, M8, M9, F1, F2, F3, F5, F6, F7, F8, F9, NH525, NH760, H811, H812, H813, H815, H816, H817, H818, H819, H820, H821, H822, H823, H825, H826, H827, H828, H829, H830

♣

♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

FCC ID:

2A65SWIFIS9

Standard(s) :

47 CFR Part 15, Subpart C 15.247

Date of Receipt:

2023-02-22

Date of Test:

2023-02-24 to 2023-03-09

Date of Issue:

2023-03-13

Test Result:

Pass*

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

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-03-13		Original

Authorized for issue by:			
		Gebin Sun	
		Gebin Sun/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Average 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
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	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

Declaration of EUT Family Grouping:

Model No.: S1, S2, S3, S5, S6, S7, S8, S9, S161, S162, S163, S165, S166, S167, S168, S169, M1, M2, M3, M5, M6, M7, M8, M9, F1, F2, F3, F5, F6, F7, F8, F9, NH525, NH760, H811, H812, H813, H815, H816, H817, H818, H819, H820, H821, H822, H823, H825, H826, H827, H828, H829, H830

Only the model S9 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on product color, external appearance and packaging.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery DC3.7V 1300mAh for Drone
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
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
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	3.85dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Average Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

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518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Average Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
Power Sensor	TST PASS	TSPS2023R	SEM009-22	2022-09-22	2023-09-21
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022-04-07	2023-04-06

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-23	2023-03-22
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022-04-07	2023-04-06

Power Spectrum Density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-23	2023-03-22
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022-04-07	2023-04-06

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-23	2023-03-22
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022-04-07	2023-04-06

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Conducted Spurious Emissions

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2022-03-23	2023-03-22
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022-04-07	2023-04-06

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2022-03-23	2023-03-22
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022-03-22	2023-03-21

Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2022-03-22	2023-03-21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230200045503

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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2022-03-23	2023-03-22
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2022-03-28	2023-03-27

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.85dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Average 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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 45.3 % RH

Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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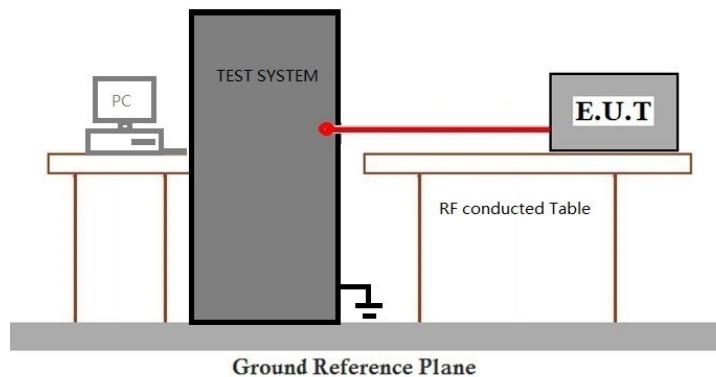
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

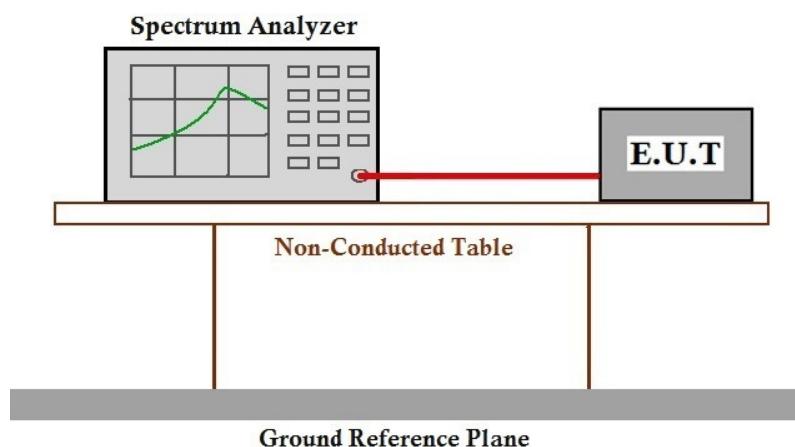
Operating Environment:

Temperature: 24.9 °C Humidity: 45.3 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Power Spectrum Density

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

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

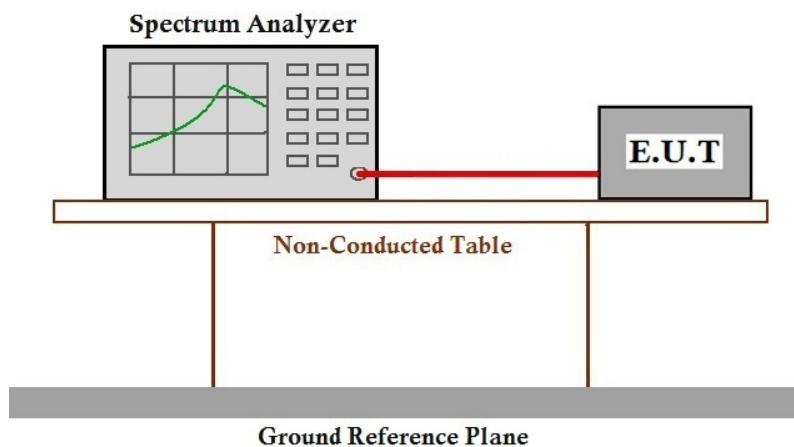
Operating Environment:

Temperature: 24.9 °C Humidity: 45.3 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.4 Conducted Band Edges Measurement

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

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

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)).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 45.3 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

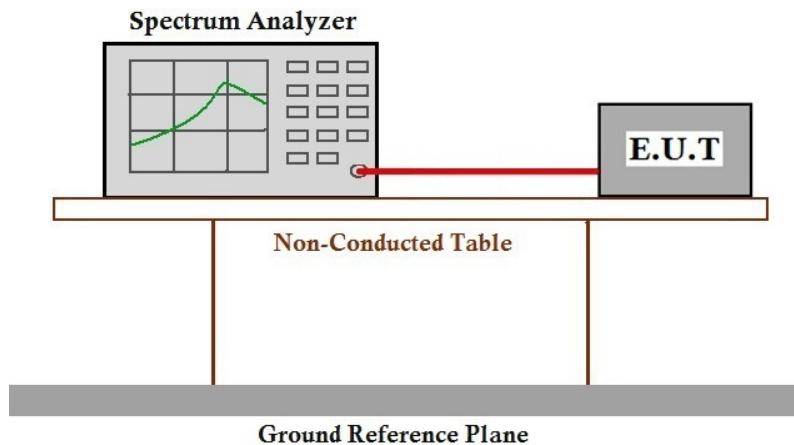
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 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)).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 45.3 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



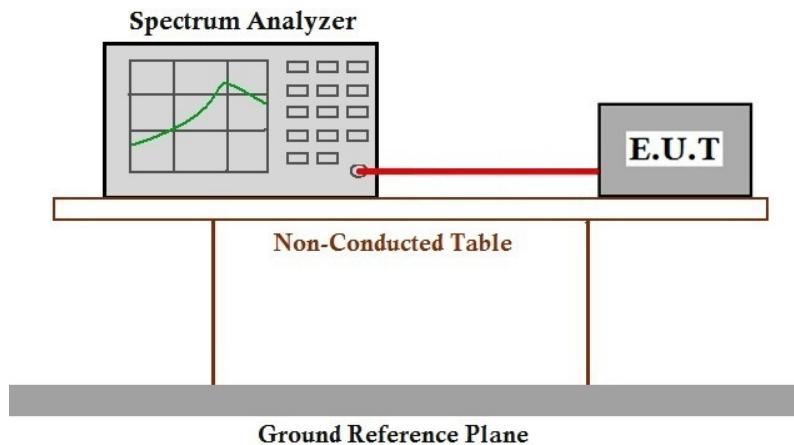
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 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
 Measurement Distance: 3m

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 57.4 % RH Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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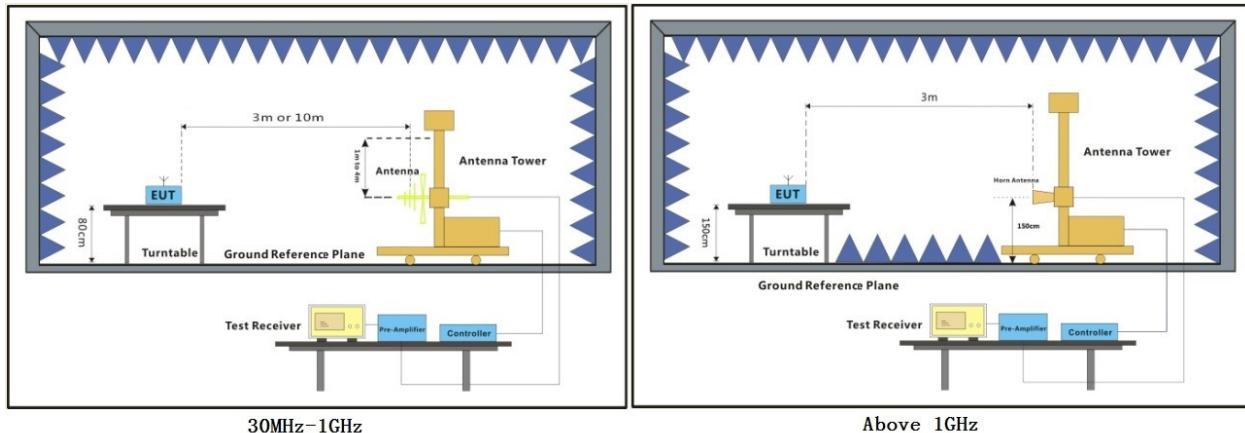
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7.6.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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7.6.4 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.

Remark 3: For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the widest bandwidth which can be covered the same channel (center frequency) on modes with narrower bandwidth that have the same or lower output power for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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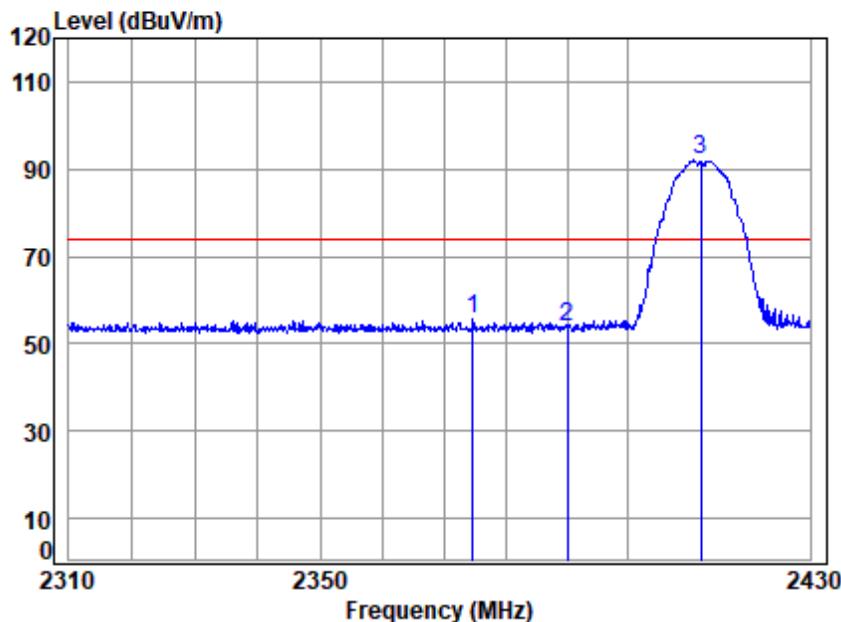
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	
1 2374.646	4.23	28.70	35.21	57.91	55.63	74.00	-18.37	peak
2 2390.000	4.25	28.76	35.21	55.99	53.79	74.00	-20.21	peak
3 . 2412.000	4.27	28.87	35.20	94.02	91.96	74.00	17.96	peak



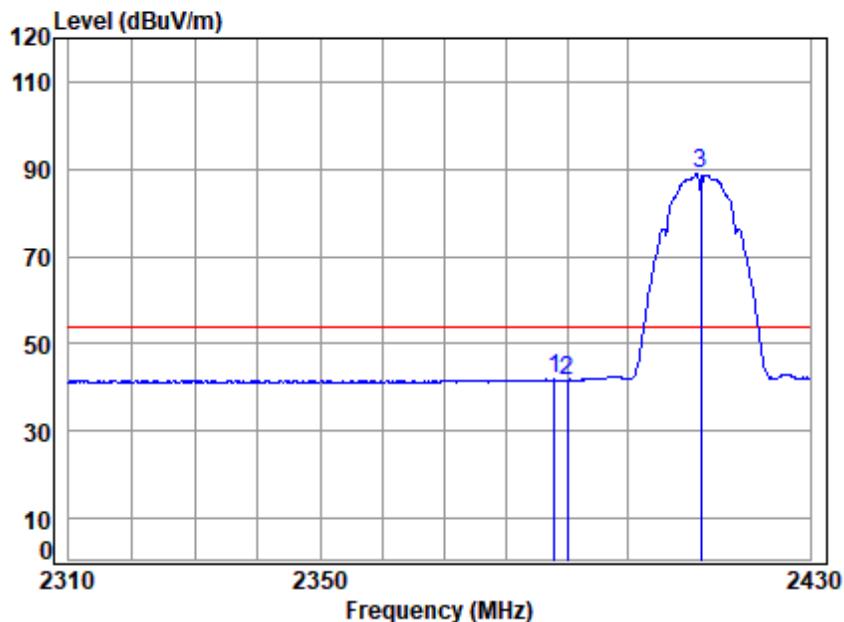
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	
1 2387.912	4.25	28.75	35.21	44.01	41.80	54.00	-12.20	Average
2 2390.000	4.25	28.76	35.21	43.67	41.47	54.00	-12.53	Average
3 . 2412.000	4.27	28.87	35.20	91.00	88.94	54.00	34.94	Average



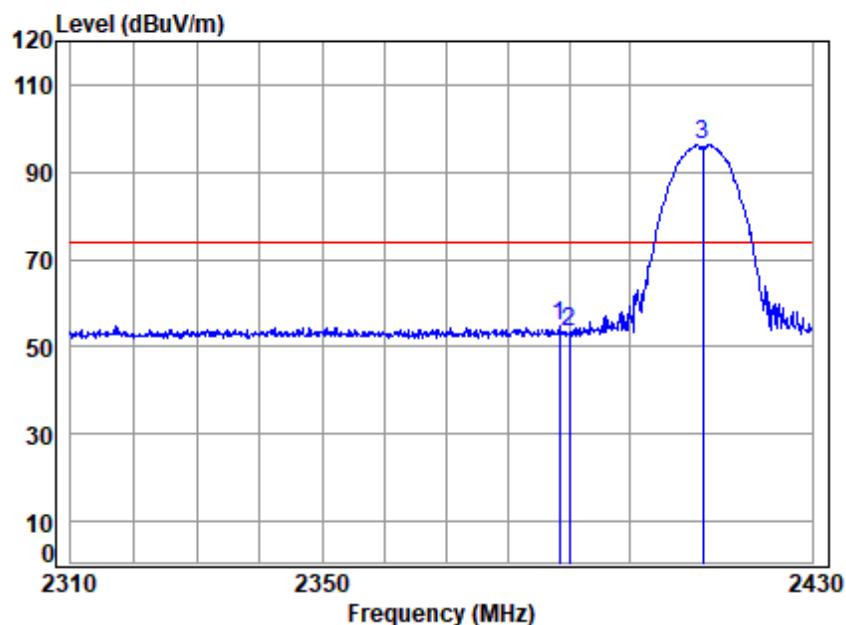
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



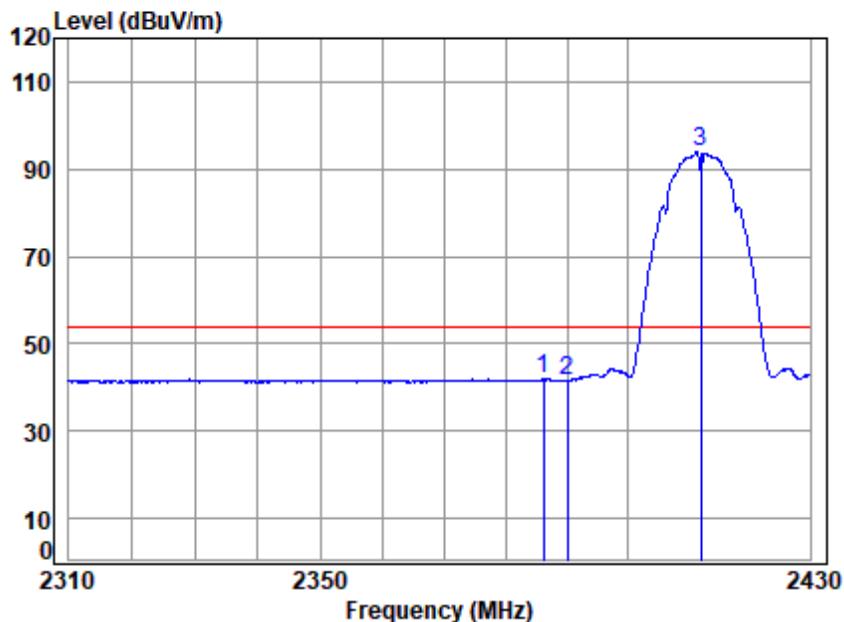
Site : chamber
Condition: 3m VERTICAL
Job No : 00455ET
Mode : 2412 Band e
Note : 2.4G WIFI 11

	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	2388.395	4.25	28.75	35.21	57.04	54.83	74.00	-19.17 Peak
2	2390.000	4.25	28.76	35.21	55.55	53.35	74.00	-20.65 Peak
3	2412.000	4.27	28.87	35.20	98.35	96.29	74.00	22.29 Peak

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00455ET

Mode : 2412 Band edge

Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.219	4.25	28.75	35.21	44.05	41.84	54.00	-12.16 Average
2	2390.000	4.25	28.76	35.21	43.79	41.59	54.00	-12.41 Average
3	2412.000	4.27	28.87	35.20	95.94	93.88	54.00	39.88 Average



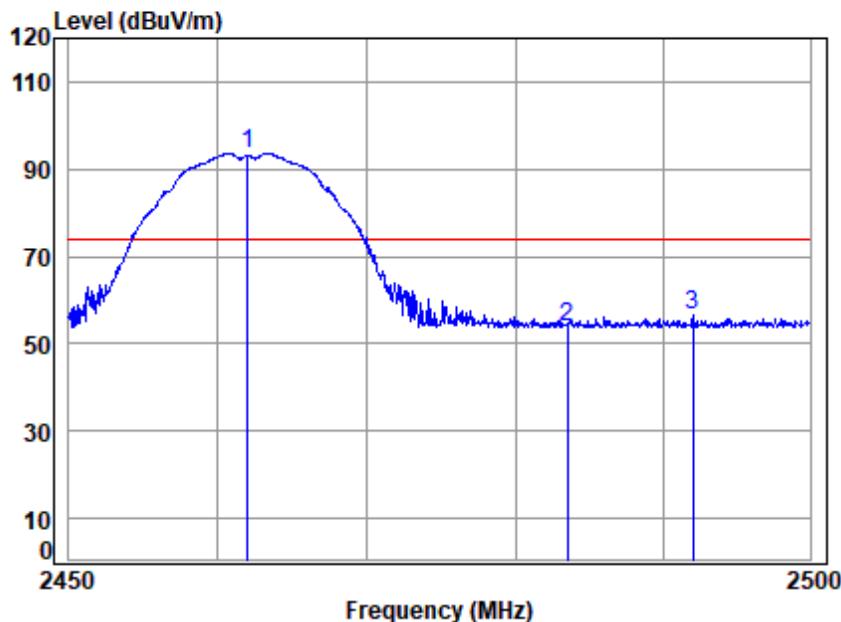
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 .	2462.000	4.32	29.17	35.17	95.21	93.53	74.00	19.53 peak
2	2483.500	4.34	29.30	35.17	55.58	54.05	74.00	-19.95 peak
3	2492.033	4.35	29.35	35.16	58.16	56.70	74.00	-17.30 peak



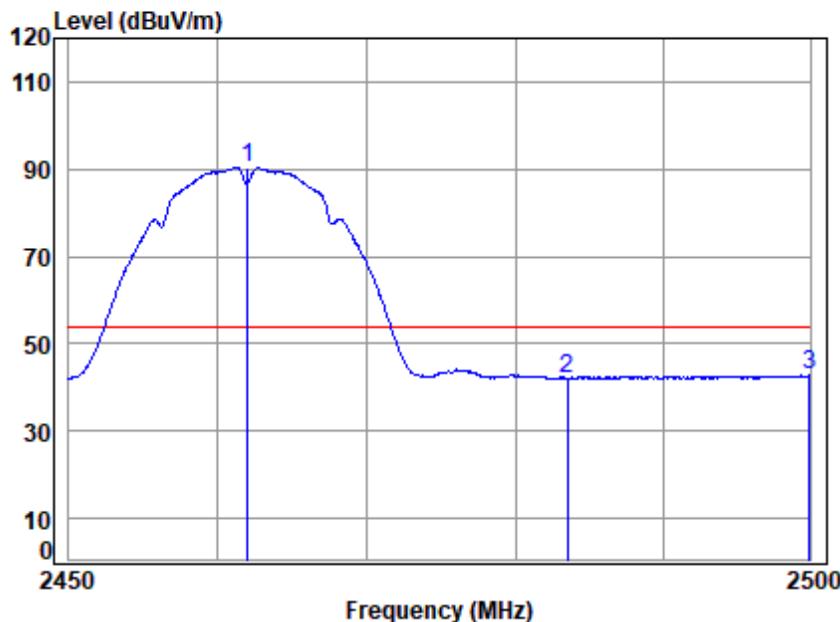
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Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	
2462.000	4.32	29.17	35.17	92.13	90.45	54.00	54.00	Average
2483.500	4.34	29.30	35.17	43.66	42.13	54.00	-11.87	Average
2499.949	4.36	29.40	35.16	44.31	42.91	54.00	-11.09	Average



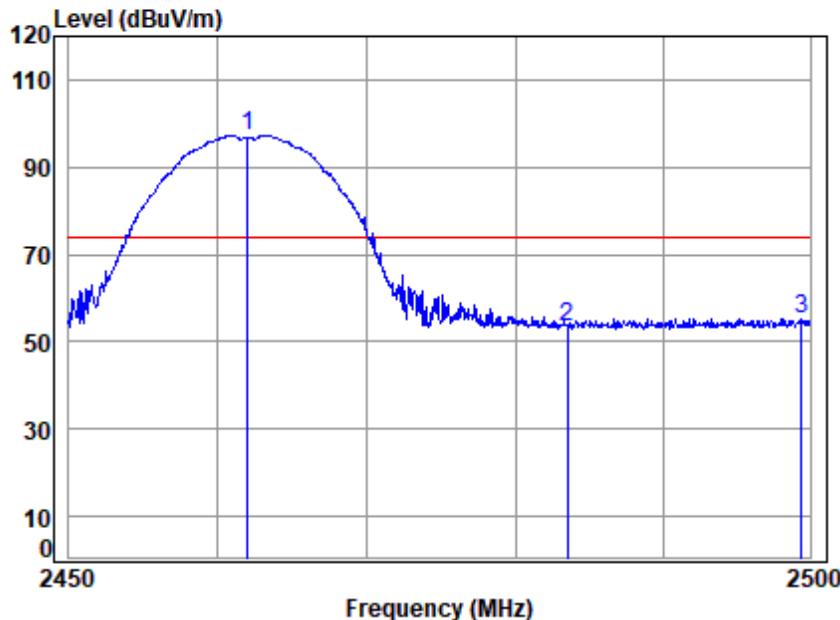
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00455ET

Mode : 2462 Band edge

Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 .	2462.000	4.32	29.17	35.17	99.04	97.36	74.00	23.36 Peak
2	2483.500	4.34	29.30	35.17	54.74	53.21	74.00	-20.79 Peak
3	2499.394	4.36	29.40	35.16	56.64	55.24	74.00	-18.76 Peak



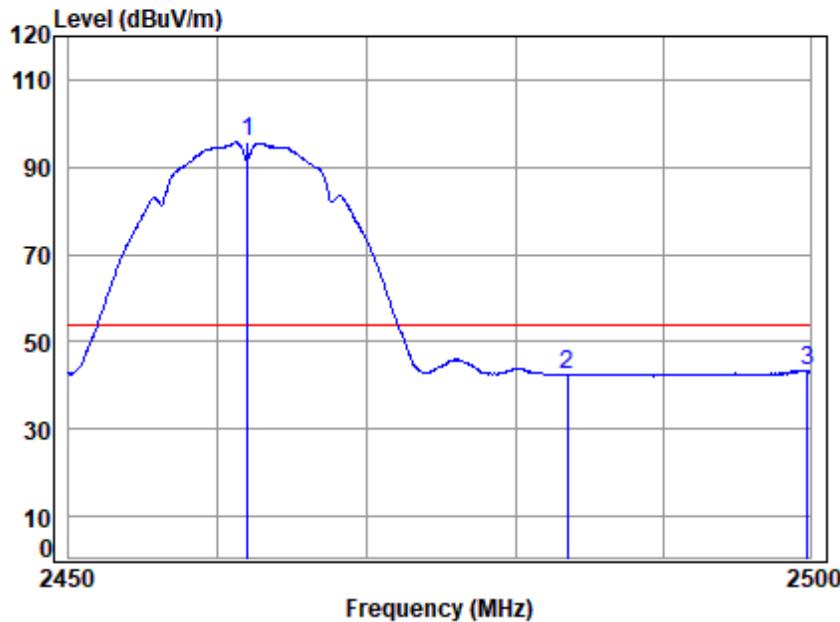
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00455ET
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
1 .	2462.000	4.32	29.17	35.17	97.35	95.67	54.00	41.67 Average
2	2483.500	4.34	29.30	35.17	43.90	42.37	54.00	-11.63 Average
3	2499.798	4.36	29.40	35.16	44.75	43.35	54.00	-10.65 Average



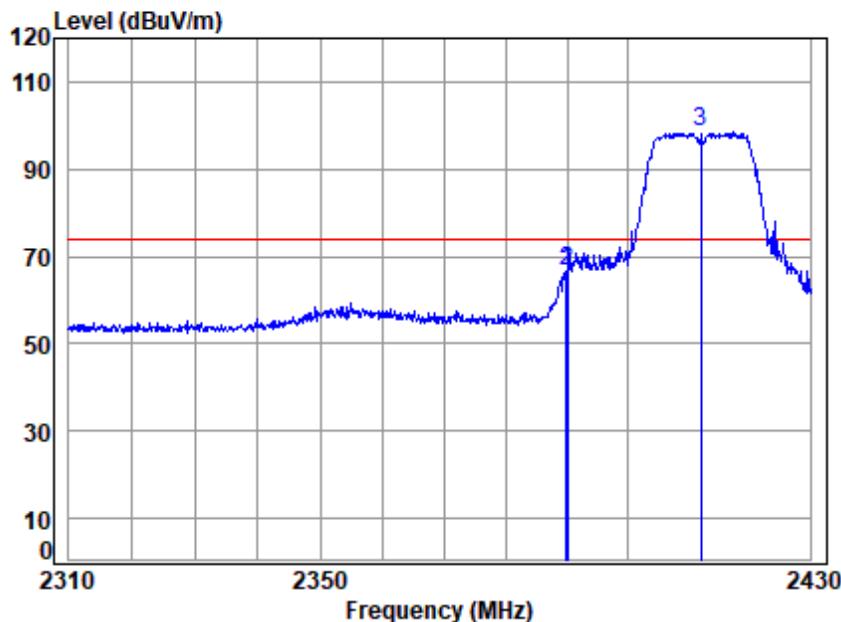
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.847	4.25	28.76	35.21	68.89	66.69	74.00	-7.31 peak
2	2390.000	4.25	28.76	35.21	68.76	66.56	74.00	-7.44 peak
3	2412.000	4.27	28.87	35.20	100.57	98.51	74.00	24.51 peak

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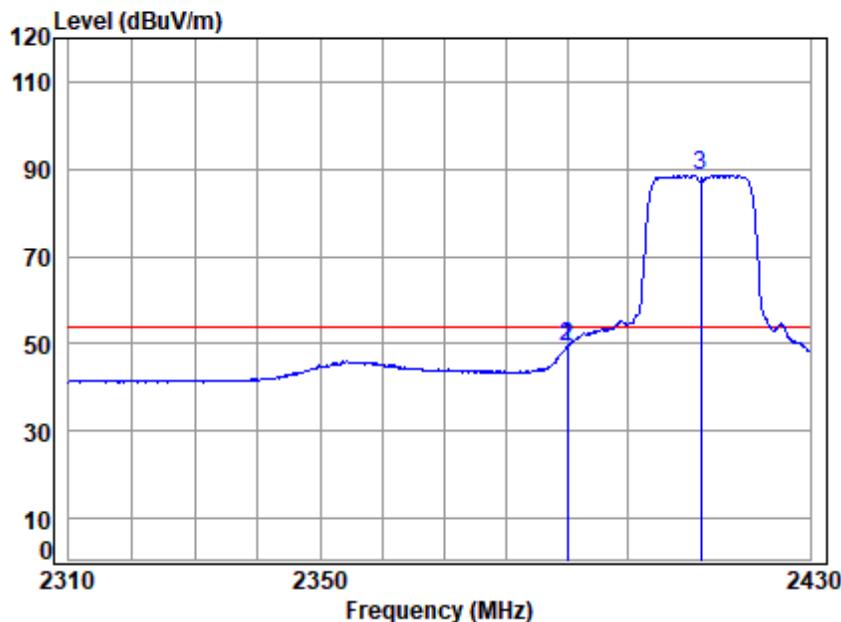
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

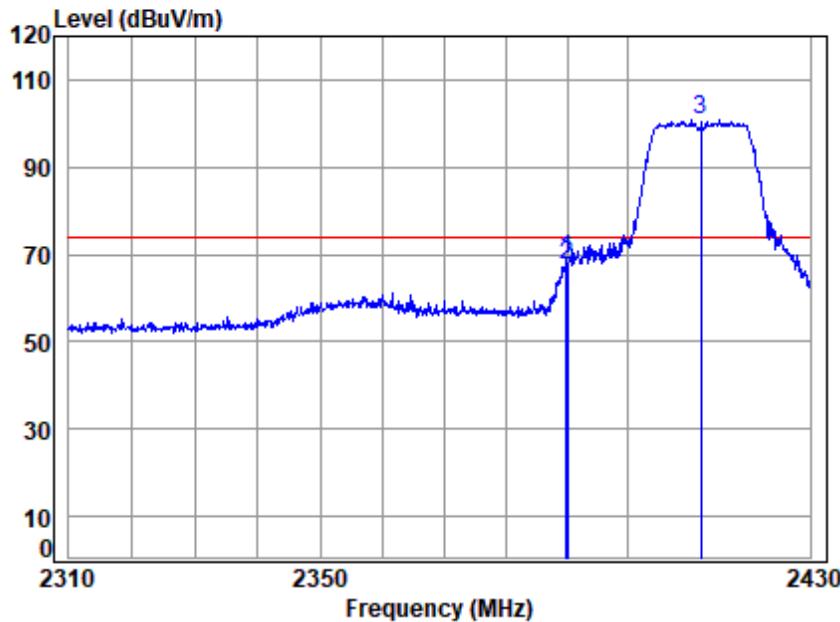
Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Over Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.968	4.25	28.76	35.21	51.66	49.46	54.00	-4.54 Average
2 2390.000	4.25	28.76	35.21	51.66	49.46	54.00	-4.54 Average
3 . 2412.000	4.27	28.87	35.20	90.72	88.66	54.00	34.66 Average

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00455ET

Mode : 2412 Band edge

Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 2389.847	4.25	28.76	35.21	71.03	68.83	74.00	-5.17	Peak
2 2390.000	4.25	28.76	35.21	69.62	67.42	74.00	-6.58	Peak
3 . 2412.000	4.27	28.87	35.20	103.12	101.06	74.00	27.06	Peak

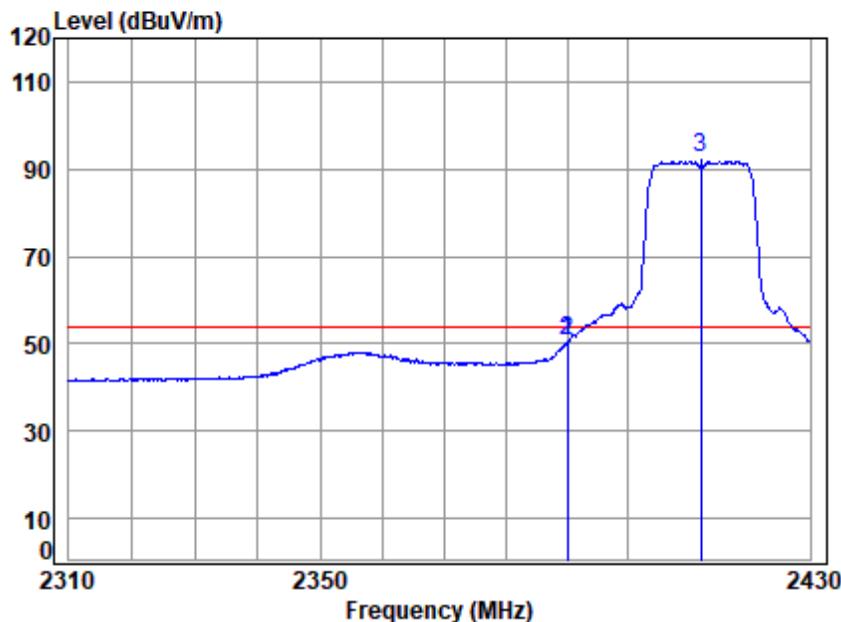
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00455ET

Mode : 2412 Band edge

Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	
1 2389.968	4.25	28.76	35.21	53.06	50.86	54.00	-3.14	Average
2 2390.000	4.25	28.76	35.21	53.06	50.86	54.00	-3.14	Average
3 . 2412.000	4.27	28.87	35.20	94.85	92.79	54.00	38.79	Average



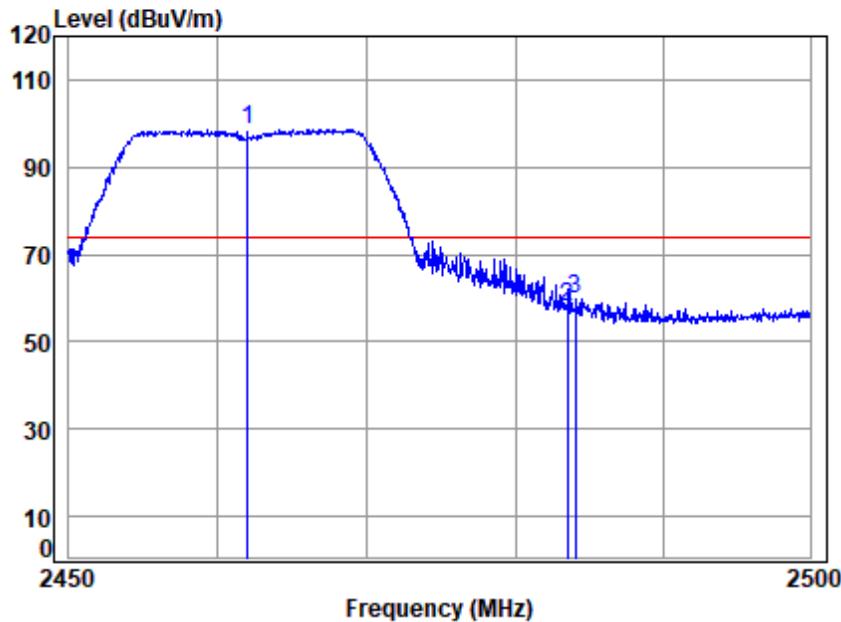
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00455ET

Mode : 2462 Band edge

Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2462.000	4.32	29.17	35.17	100.27	98.59	74.00	24.59 peak
2 2483.500	4.34	29.30	35.17	59.51	57.98	74.00	-16.02 peak
3 2484.091	4.34	29.31	35.16	61.39	59.88	74.00	-14.12 peak



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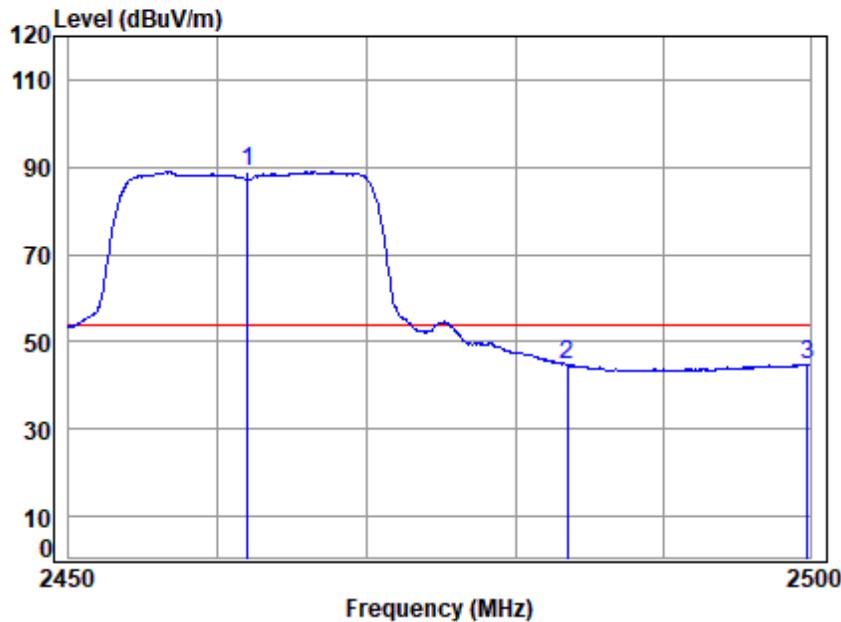
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit	Over	Remark
				Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 2462.000	4.32	29.17	35.17	90.59	88.91	54.00	34.91 Average
2 2483.500	4.34	29.30	35.17	46.03	44.50	54.00	-9.50 Average
3 2499.798	4.36	29.40	35.16	46.29	44.89	54.00	-9.11 Average



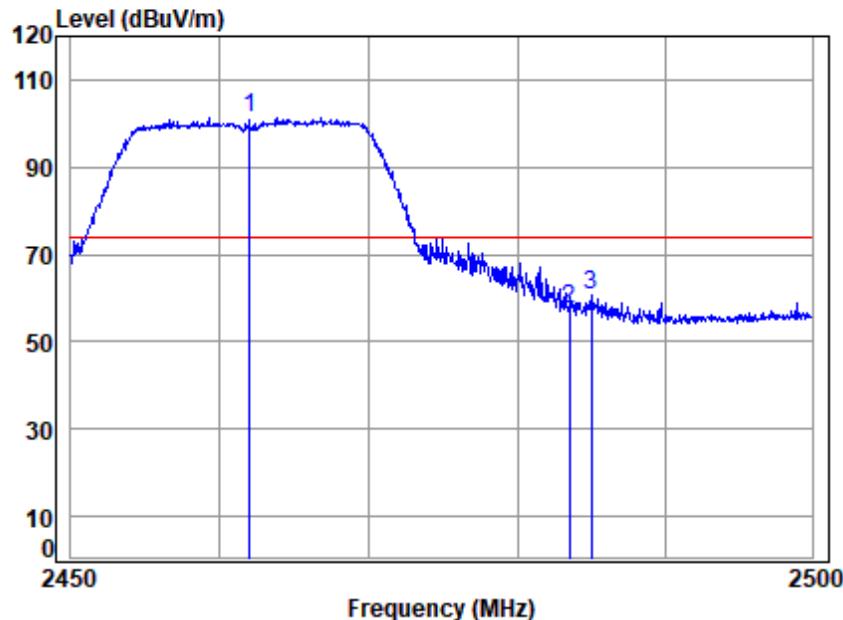
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00455ET

Mode : 2462 Band edge

Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
1 .	2462.000	4.32	29.17	35.17	103.15	101.47	74.00	27.47 Peak
2	2483.500	4.34	29.30	35.17	59.09	57.56	74.00	-16.44 Peak
3	2484.994	4.35	29.31	35.16	62.11	60.61	74.00	-13.39 Peak



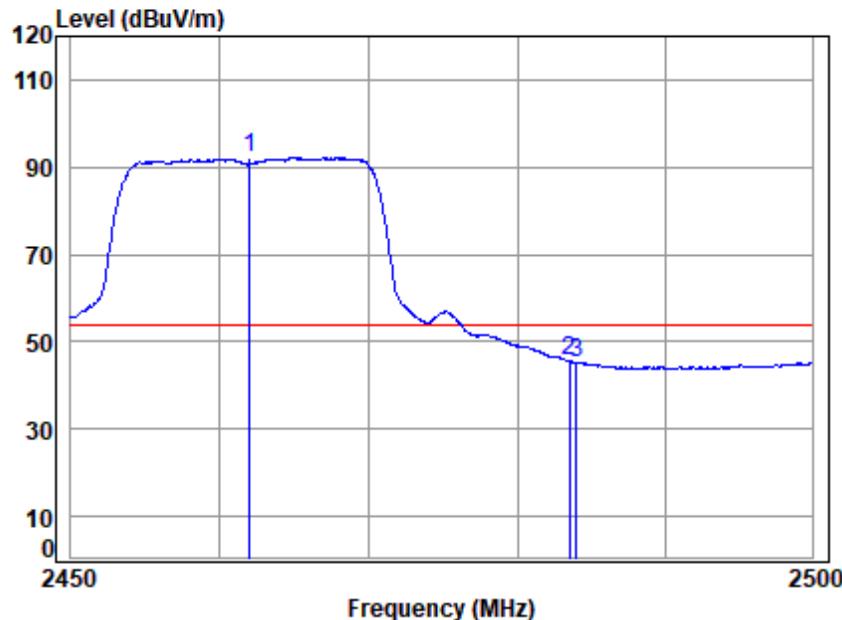
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00455ET

Mode : 2462 Band edge

Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 .	2462.000	4.32	29.17	35.17	93.94	92.26	54.00	38.26 Average
2	2483.500	4.34	29.30	35.17	47.11	45.58	54.00	-8.42 Average
3	2483.990	4.34	29.30	35.16	46.89	45.37	54.00	-8.63 Average



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7.7 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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

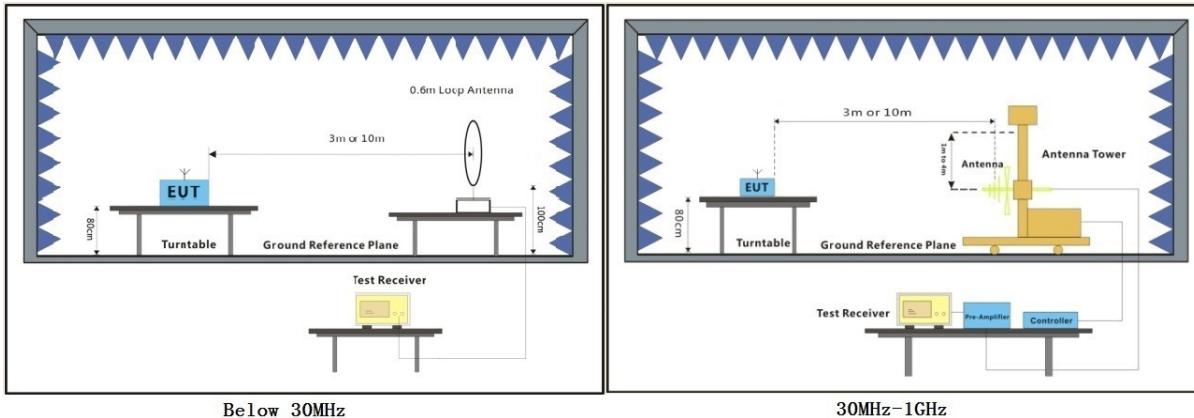
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7.7.3 Test Setup Diagram



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7.7.4 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) 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.



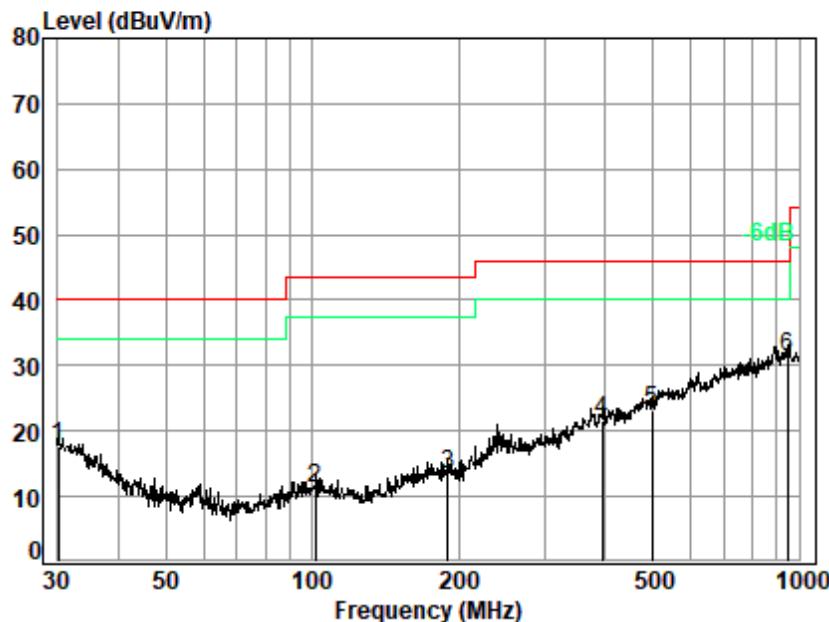
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00455ET

Test Mode: 01

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					dB	dBuV	dBuV/m	dBuV/m	dB
MHz	dB/m								
1	30.11	21.40	0.63	27.23	22.99	17.79	40.00	-22.21	QP
2	101.64	13.00	1.15	26.99	24.24	11.40	43.50	-32.10	QP
3	189.74	14.69	1.63	26.64	23.70	13.38	43.50	-30.12	QP
4	394.85	21.62	2.46	26.48	24.11	21.71	46.00	-24.29	QP
5	499.42	23.08	2.81	26.80	24.07	23.16	46.00	-22.84	QP
6 q	945.44	28.69	4.13	25.72	24.19	31.29	46.00	-14.71	QP

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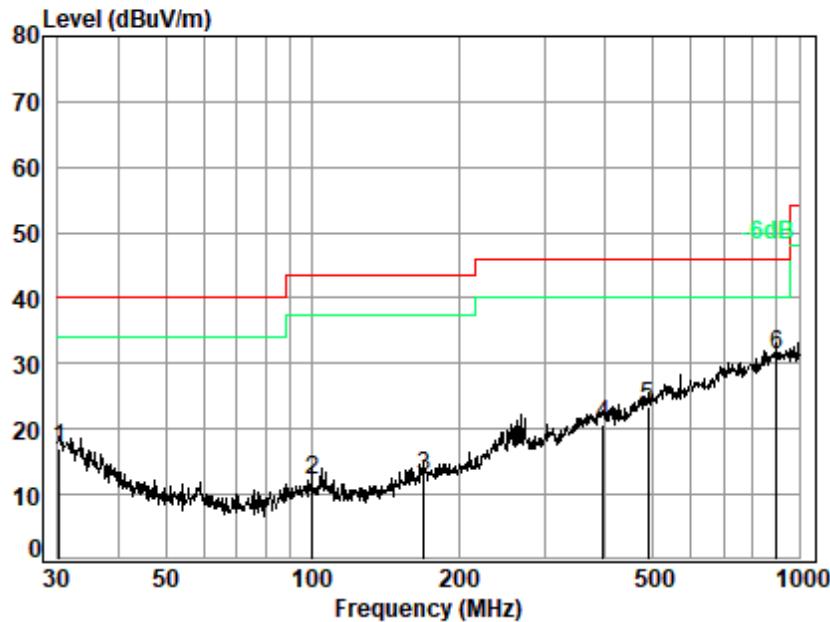
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No. : 00455ET
Test Mode: 01

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dBuV	dBuV/m		
1	30.21	21.33	0.63	27.23	22.18	16.91	40.00	-23.09 QP
2	99.88	13.02	1.14	27.00	25.08	12.24	43.50	-31.26 QP
3	169.60	14.08	1.52	26.72	24.04	12.92	43.50	-30.58 QP
4	396.24	21.65	2.47	26.49	23.13	20.76	46.00	-25.24 QP
5	489.03	22.95	2.77	26.77	24.50	23.45	46.00	-22.55 QP
6 q	900.15	28.74	4.03	25.90	24.32	31.19	46.00	-14.81 QP



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7.8 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

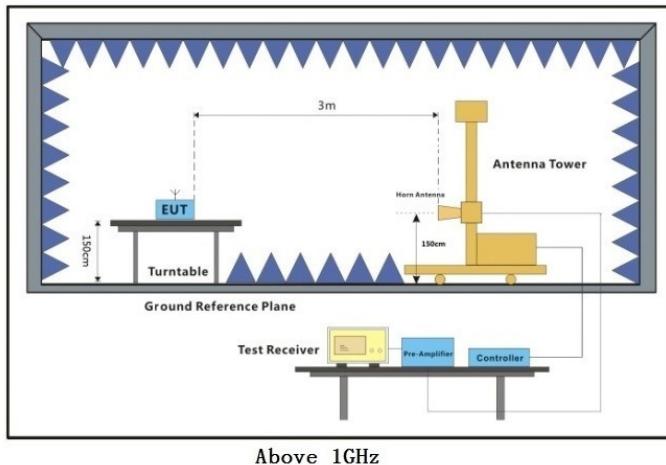
7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 57.3 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram

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7.8.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 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.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



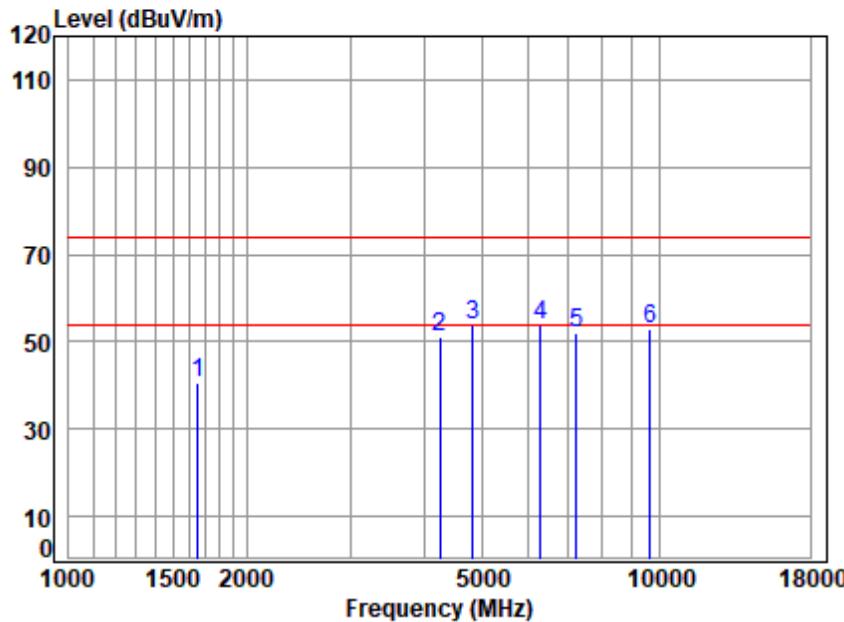
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2412 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1653.550	3.43	26.71	36.15	46.53	40.52	74.00	-33.48	peak
2 4254.921	6.54	33.60	34.58	45.42	50.98	74.00	-23.02	peak
3 4824.000	7.06	33.90	34.42	47.22	53.76	74.00	-20.24	peak
4 6303.890	8.21	35.20	34.87	45.13	53.67	74.00	-20.33	peak
5 7236.000	8.54	35.80	35.44	43.34	52.24	74.00	-21.76	peak
6 9648.000	10.41	37.10	35.15	40.71	53.07	74.00	-20.93	peak



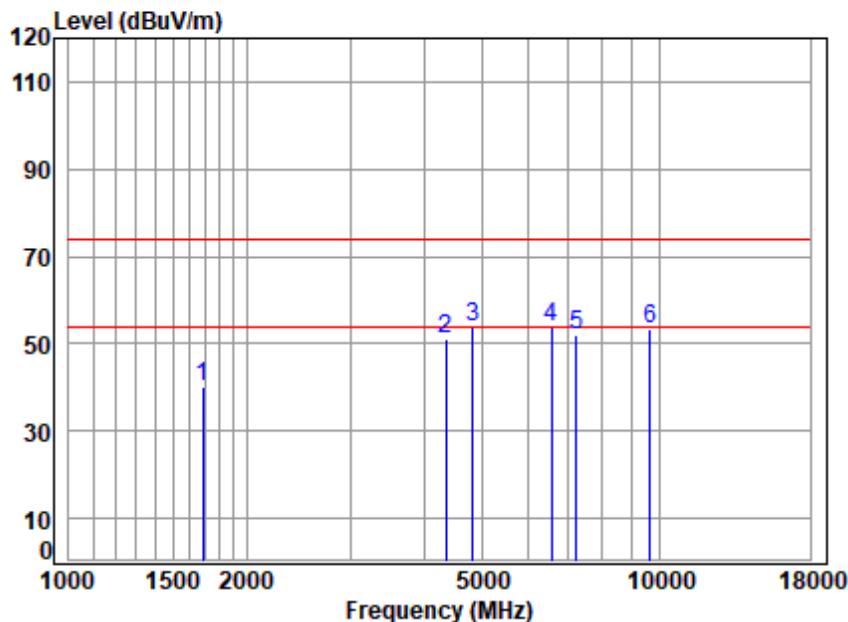
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00455ET
Mode : 2412 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1687.347	3.47	26.77	36.07	45.96	40.13	74.00	-33.87 peak
4354.454	6.63	33.59	34.55	45.32	50.99	74.00	-23.01 peak
4824.000	7.06	33.90	34.42	47.28	53.82	74.00	-20.18 peak
6564.209	8.25	35.60	35.07	44.84	53.62	74.00	-20.38 peak
7236.000	8.54	35.80	35.44	43.20	52.10	74.00	-21.90 peak
9648.000	10.41	37.10	35.15	40.91	53.27	74.00	-20.73 peak



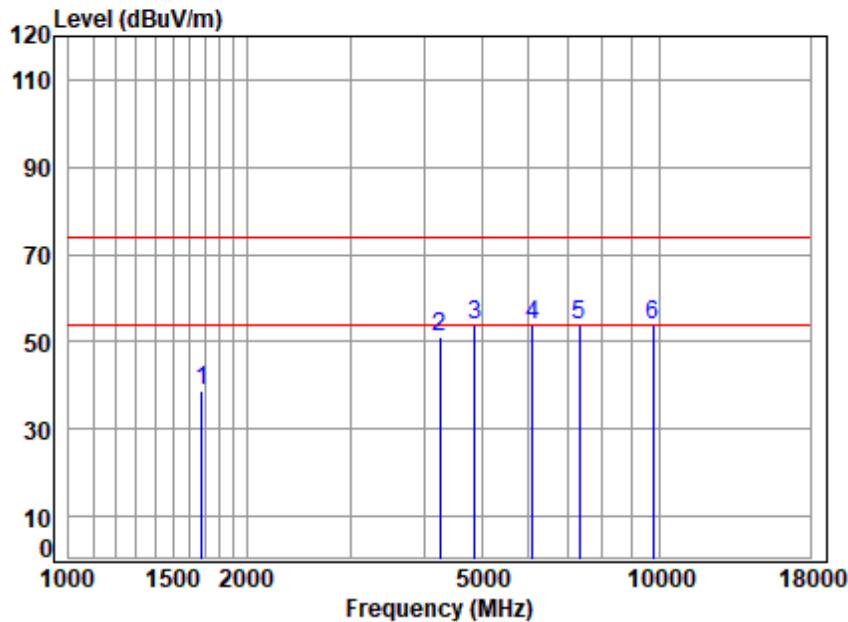
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2437 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 1677.621	3.46	26.76	36.09	44.82	38.95	74.00	-35.05 peak
2 4242.641	6.53	33.57	34.59	45.77	51.28	74.00	-22.72 peak
3 4874.000	7.10	34.05	34.41	47.08	53.82	74.00	-20.18 peak
4 6088.991	8.18	35.08	34.69	45.39	53.96	74.00	-20.04 peak
5 7311.000	8.61	35.90	35.46	44.77	53.82	74.00	-20.18 peak
6 9748.000	10.45	37.20	35.17	41.21	53.69	74.00	-20.31 peak

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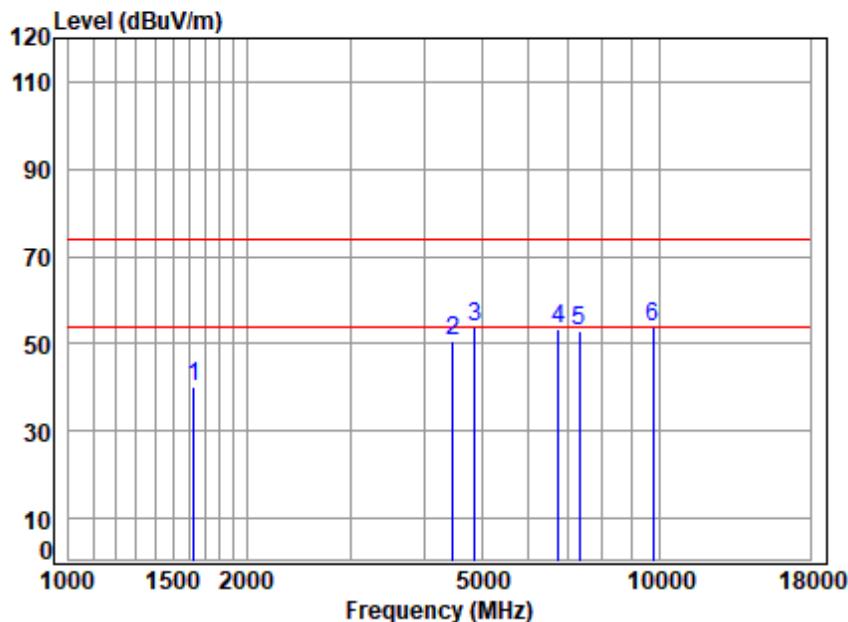
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00455ET
Mode : 2437 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1629.825	3.41	26.62	36.20	46.10	39.93	74.00	-34.07	peak
2 4469.214	6.74	33.50	34.52	44.95	50.67	74.00	-23.33	peak
3 4874.000	7.10	34.05	34.41	46.98	53.72	74.00	-20.28	peak
4 6737.207	8.28	35.53	35.20	44.57	53.18	74.00	-20.82	peak
5 7311.000	8.61	35.90	35.46	43.69	52.74	74.00	-21.26	peak
6 9748.000	10.45	37.20	35.17	41.33	53.81	74.00	-20.19	peak

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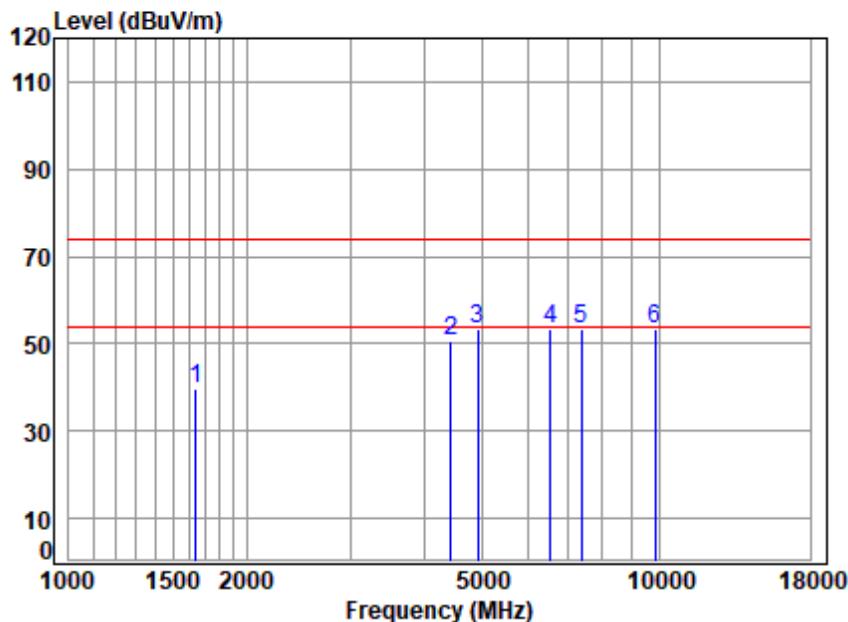
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2462 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1639.274	3.42	26.66	36.18	46.01	39.91	74.00	-34.09	peak
2 4430.628	6.71	33.50	34.53	45.09	50.77	74.00	-23.23	peak
3 4924.000	7.15	34.15	34.40	46.50	53.40	74.00	-20.60	peak
4 6545.263	8.25	35.59	35.05	44.75	53.54	74.00	-20.46	peak
5 7386.000	8.68	35.90	35.48	44.19	53.29	74.00	-20.71	peak
6 9848.000	10.49	37.30	35.19	40.72	53.32	74.00	-20.68	peak



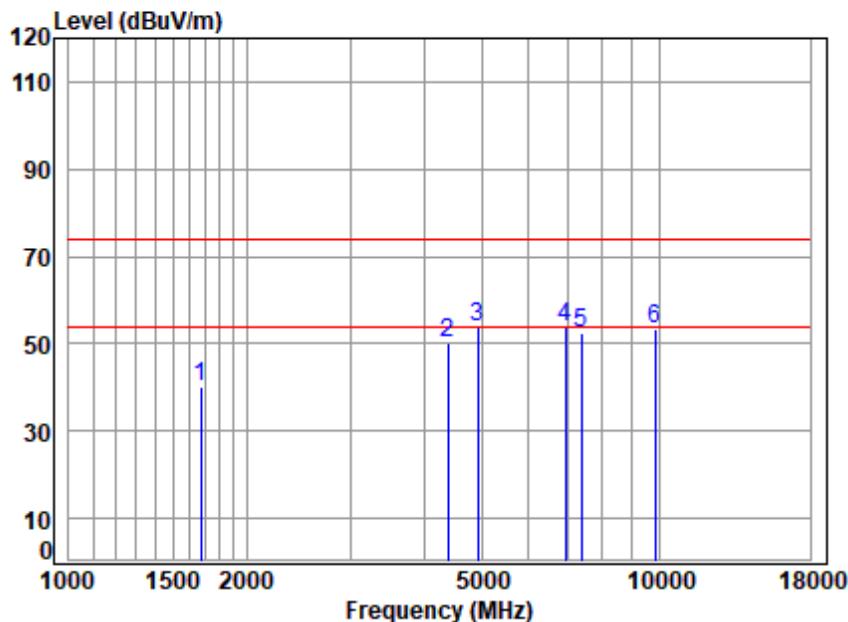
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00455ET
Mode : 2462 TX RSE
: 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark
				dB	dBuV	dBuV/m	dBuV/m	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1672.779	3.46	26.75	36.10	46.16	40.27	74.00	-33.73	peak
2 4392.376	6.67	33.52	34.54	44.76	50.41	74.00	-23.59	peak
3 4924.000	7.15	34.15	34.40	46.75	53.65	74.00	-20.35	peak
4 6934.778	8.31	35.67	35.34	45.25	53.89	74.00	-20.11	peak
5 7386.000	8.68	35.90	35.48	43.45	52.55	74.00	-21.45	peak
6 9848.000	10.49	37.30	35.19	40.81	53.41	74.00	-20.59	peak

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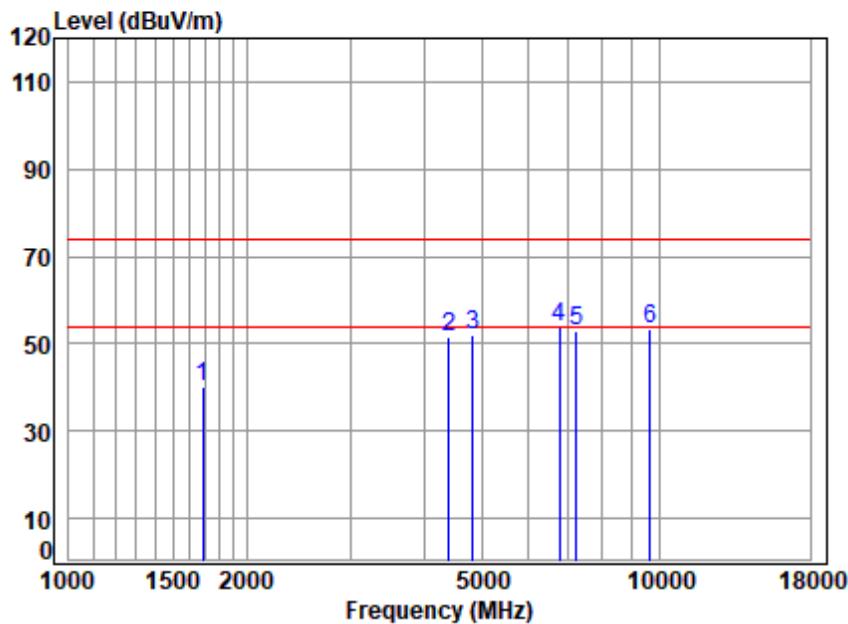
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2412 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1687.347	3.47	26.77	36.07	45.79	39.96	74.00	-34.04	peak
2 4405.090	6.68	33.50	34.54	45.91	51.55	74.00	-22.45	peak
3 4824.000	7.06	33.90	34.42	45.56	52.10	74.00	-21.90	peak
4 6776.265	8.29	35.50	35.23	45.19	53.75	74.00	-20.25	peak
5 7236.000	8.54	35.80	35.44	44.08	52.98	74.00	-21.02	peak
6 9648.000	10.41	37.10	35.15	41.02	53.38	74.00	-20.62	peak



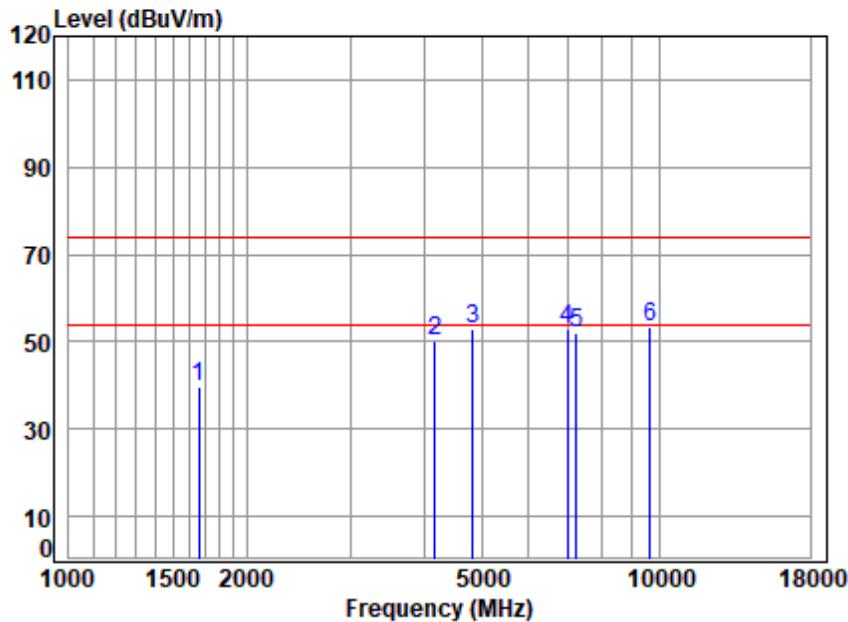
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00455ET
Mode : 2412 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1658.337	3.44	26.72	36.14	45.86	39.88	74.00	-34.12	peak
2 4169.698	6.45	33.22	34.61	45.08	50.14	74.00	-23.86	peak
3 4824.000	7.06	33.90	34.42	46.24	52.78	74.00	-21.22	peak
4 6995.172	8.32	35.79	35.39	44.33	53.05	74.00	-20.95	peak
5 7236.000	8.54	35.80	35.44	43.31	52.21	74.00	-21.79	peak
6 9648.000	10.41	37.10	35.15	41.18	53.54	74.00	-20.46	peak



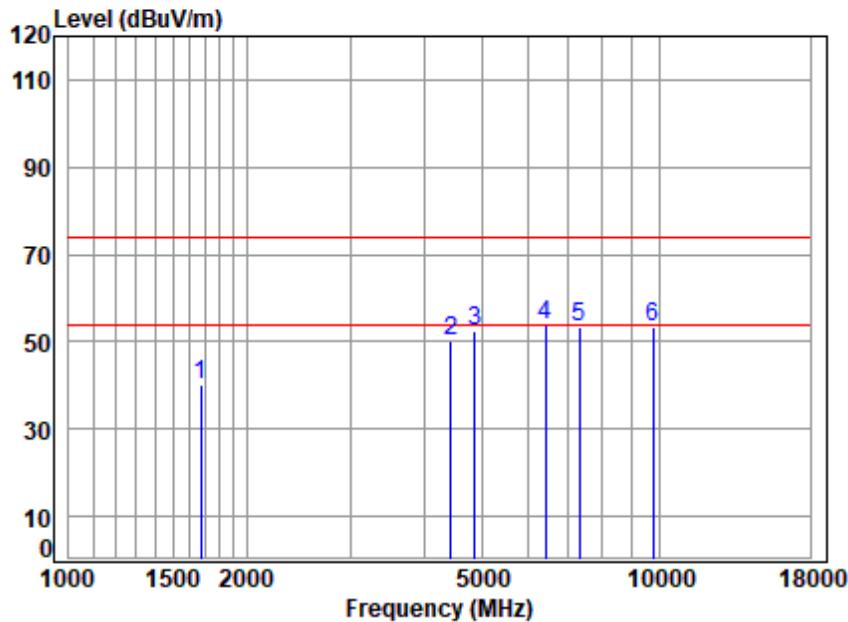
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2437 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1672.779	3.46	26.75	36.10	45.95	40.06	74.00	-33.94	peak
2 4430.628	6.71	33.50	34.53	44.72	50.40	74.00	-23.60	peak
3 4874.000	7.10	34.05	34.41	45.65	52.39	74.00	-21.61	peak
4 6414.167	8.23	35.33	34.95	45.03	53.64	74.00	-20.36	peak
5 7311.000	8.61	35.90	35.46	44.42	53.47	74.00	-20.53	peak
6 9748.000	10.45	37.20	35.17	40.79	53.27	74.00	-20.73	peak

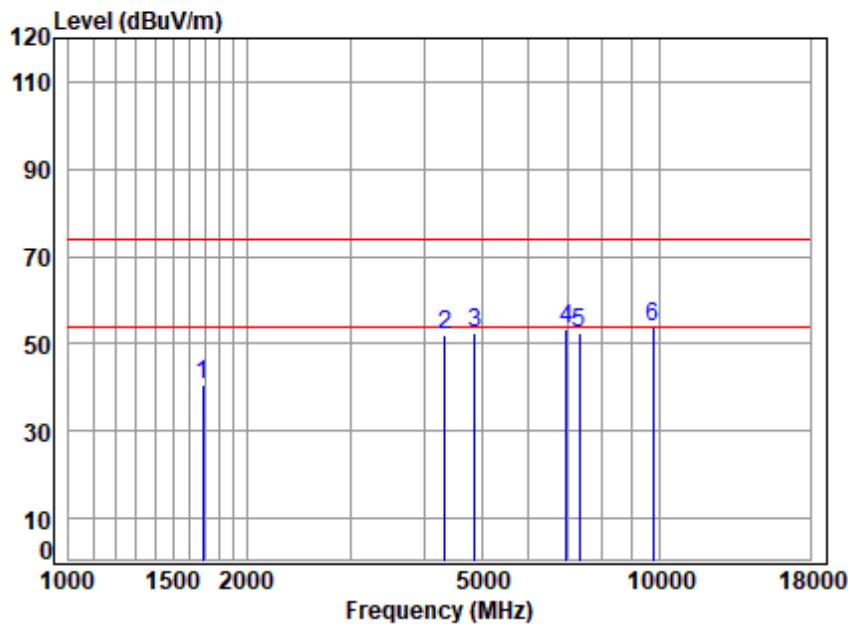
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00455ET
Mode : 2437 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 1687.347	3.47	26.77	36.07	46.39	40.56	74.00	-33.44 peak
2 4329.354	6.61	33.60	34.56	46.50	52.15	74.00	-21.85 peak
3 4874.000	7.10	34.05	34.41	45.66	52.40	74.00	-21.60 peak
4 6954.852	8.31	35.71	35.36	44.85	53.51	74.00	-20.49 peak
5 7311.000	8.61	35.90	35.46	43.24	52.29	74.00	-21.71 peak
6 9748.000	10.45	37.20	35.17	41.28	53.76	74.00	-20.24 peak



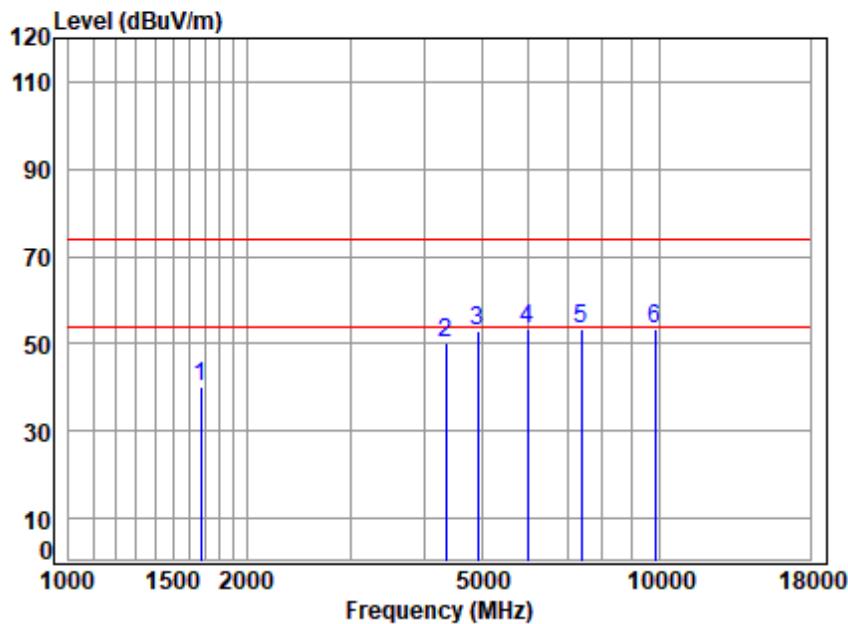
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00455ET
Mode : 2462 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1672.779	3.46	26.75	36.10	46.02	40.13	74.00	-33.87	peak
2 4354.454	6.63	33.59	34.55	44.33	50.00	74.00	-24.00	peak
3 4924.000	7.15	34.15	34.40	45.91	52.81	74.00	-21.19	peak
4 5984.305	8.15	34.97	34.62	44.95	53.45	74.00	-20.55	peak
5 7386.000	8.68	35.90	35.48	44.26	53.36	74.00	-20.64	peak
6 9848.000	10.49	37.30	35.19	40.96	53.56	74.00	-20.44	peak

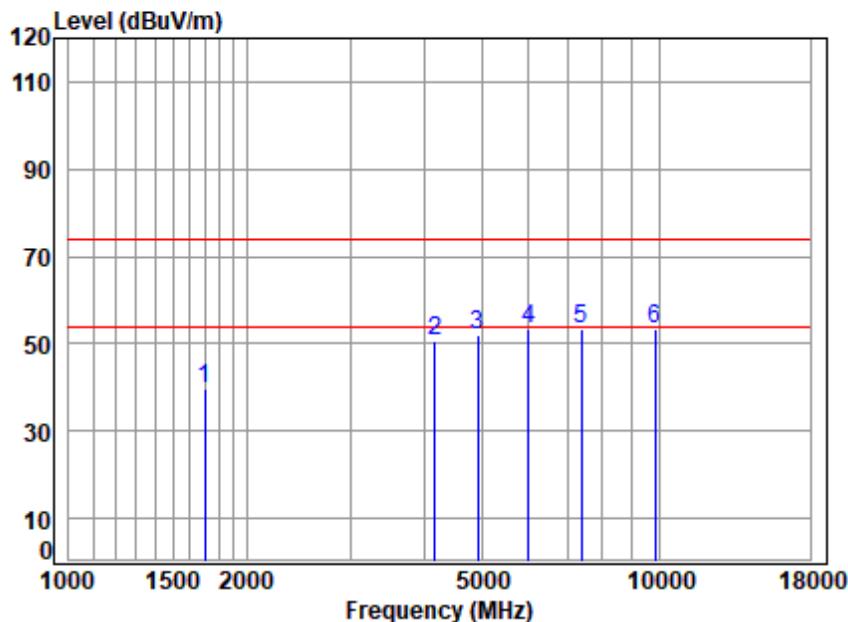
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00455ET
Mode : 2462 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1702.042	3.49	26.80	36.03	45.45	39.71	74.00	-34.29	peak
2 4169.698	6.45	33.22	34.61	45.58	50.64	74.00	-23.36	peak
3 4924.000	7.15	34.15	34.40	45.20	52.10	74.00	-21.90	peak
4 6001.626	8.16	35.00	34.62	44.94	53.48	74.00	-20.52	peak
5 7386.000	8.68	35.90	35.48	44.46	53.56	74.00	-20.44	peak
6 9848.000	10.49	37.30	35.19	40.88	53.48	74.00	-20.52	peak

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2302000455ET

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2302000455ET.



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10 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	8.386	16.740	50.10	3.00	0.00
		2437	8.383	16.740	50.08	3.00	0.02
		2462	8.383	16.736	50.09	3.00	0.01
802.11g	SISO	2412	2.027	4.923	41.17	3.85	8.53
		2437	2.025	4.079	49.64	3.04	0.00
		2462	2.026	5.571	36.37	4.39	13.34
802.11n (HT20)	SISO	2412	1.888	3.743	50.44	2.97	0.06
		2437	1.888	5.409	34.90	4.57	15.59
		2462	1.890	3.772	50.11	3.00	0.39



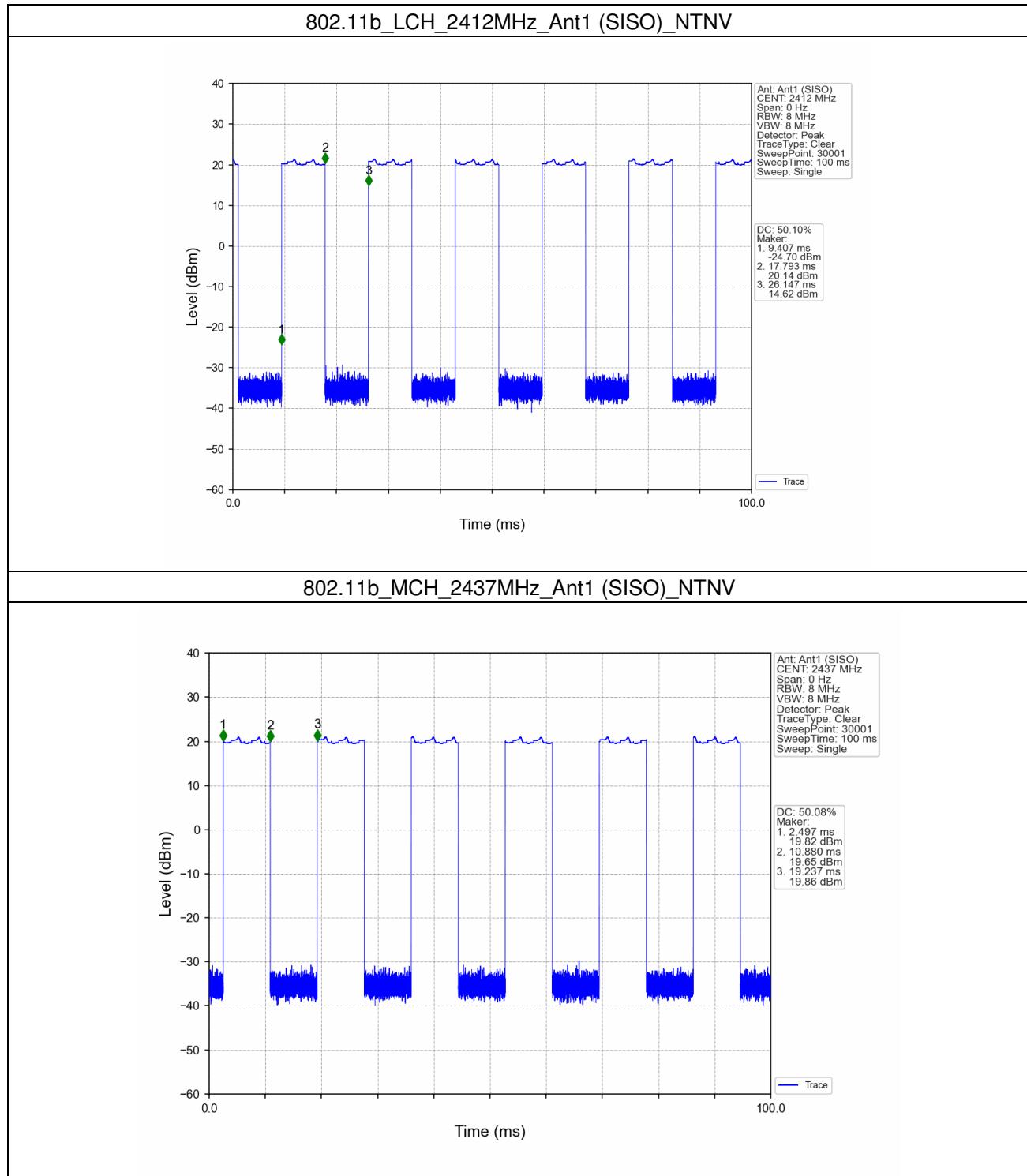
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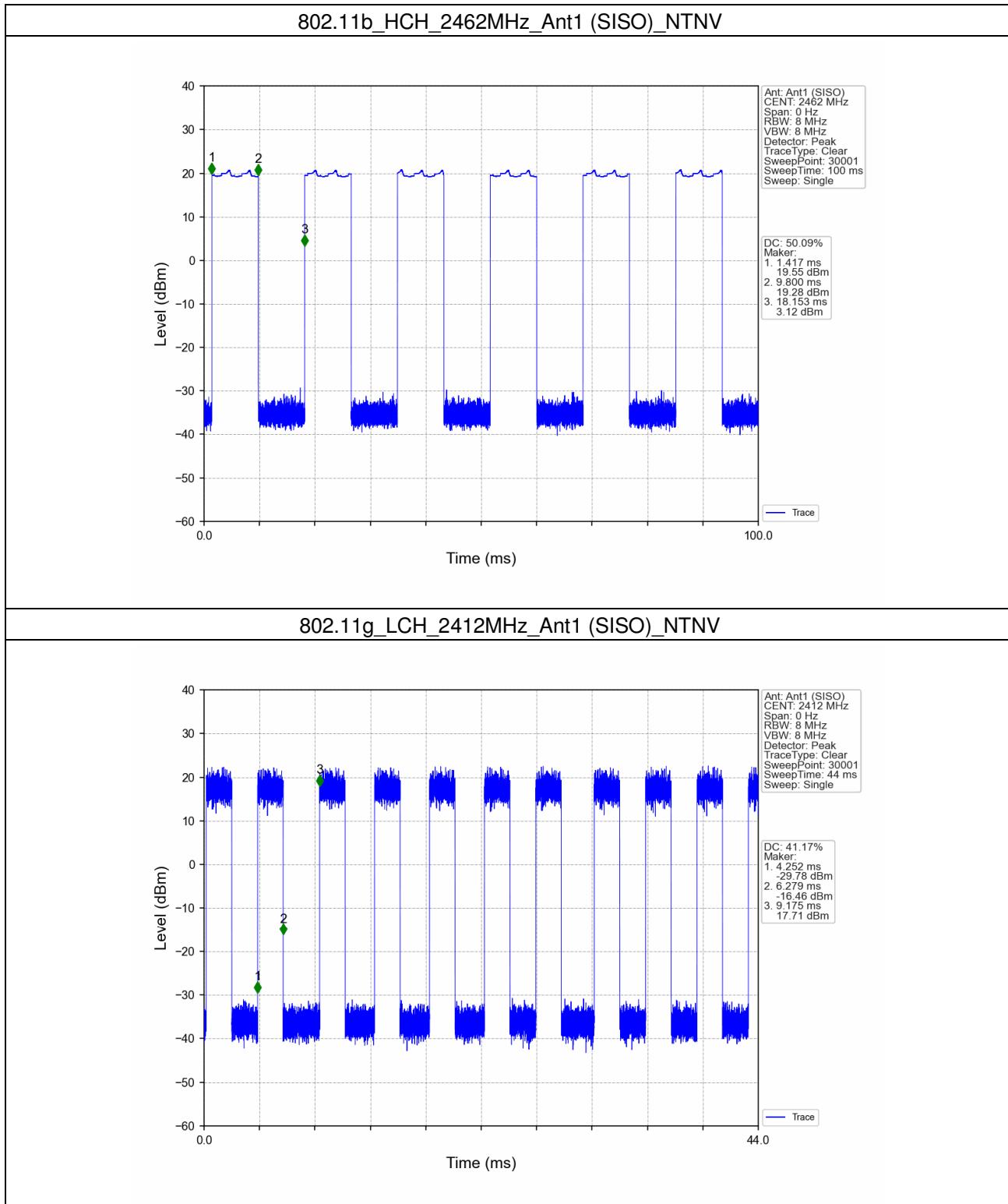
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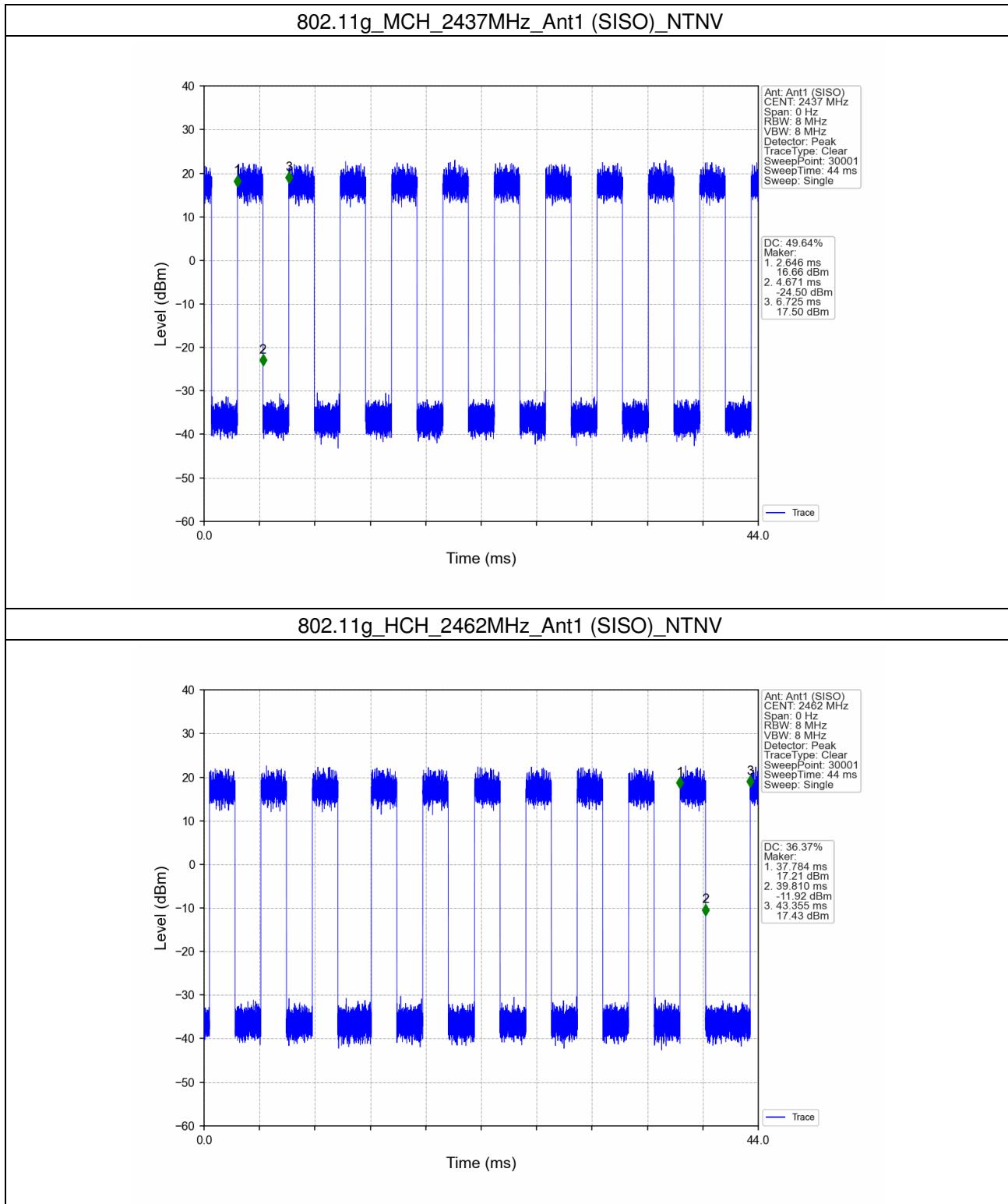
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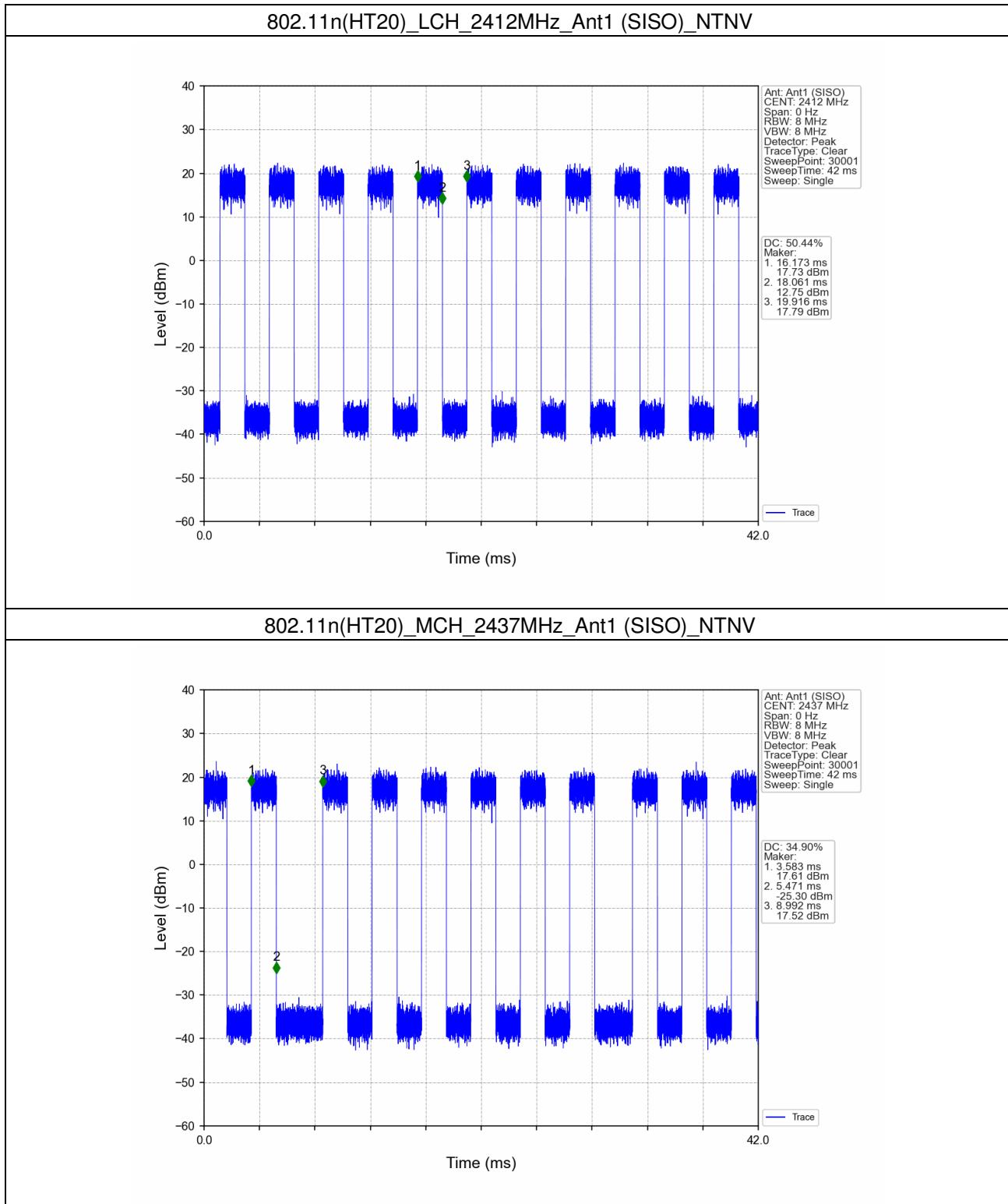
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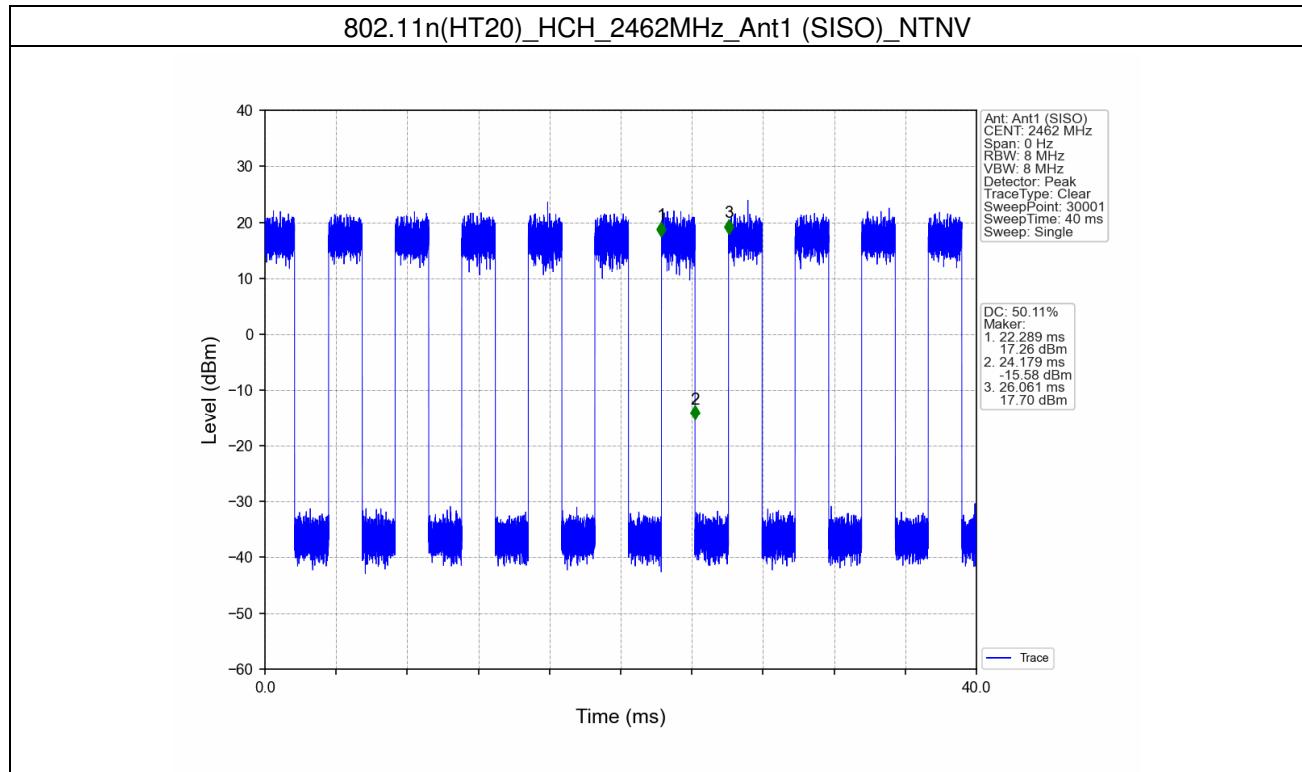
1.1.2 Test Graph











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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.079	Pass
		2437	1	13.075	Pass
		2462	1	13.078	Pass
802.11g	SISO	2412	1	17.710	Pass
		2437	1	17.811	Pass
		2462	1	17.816	Pass
802.11n (HT20)	SISO	2412	1	18.352	Pass
		2437	1	18.362	Pass
		2462	1	18.372	Pass



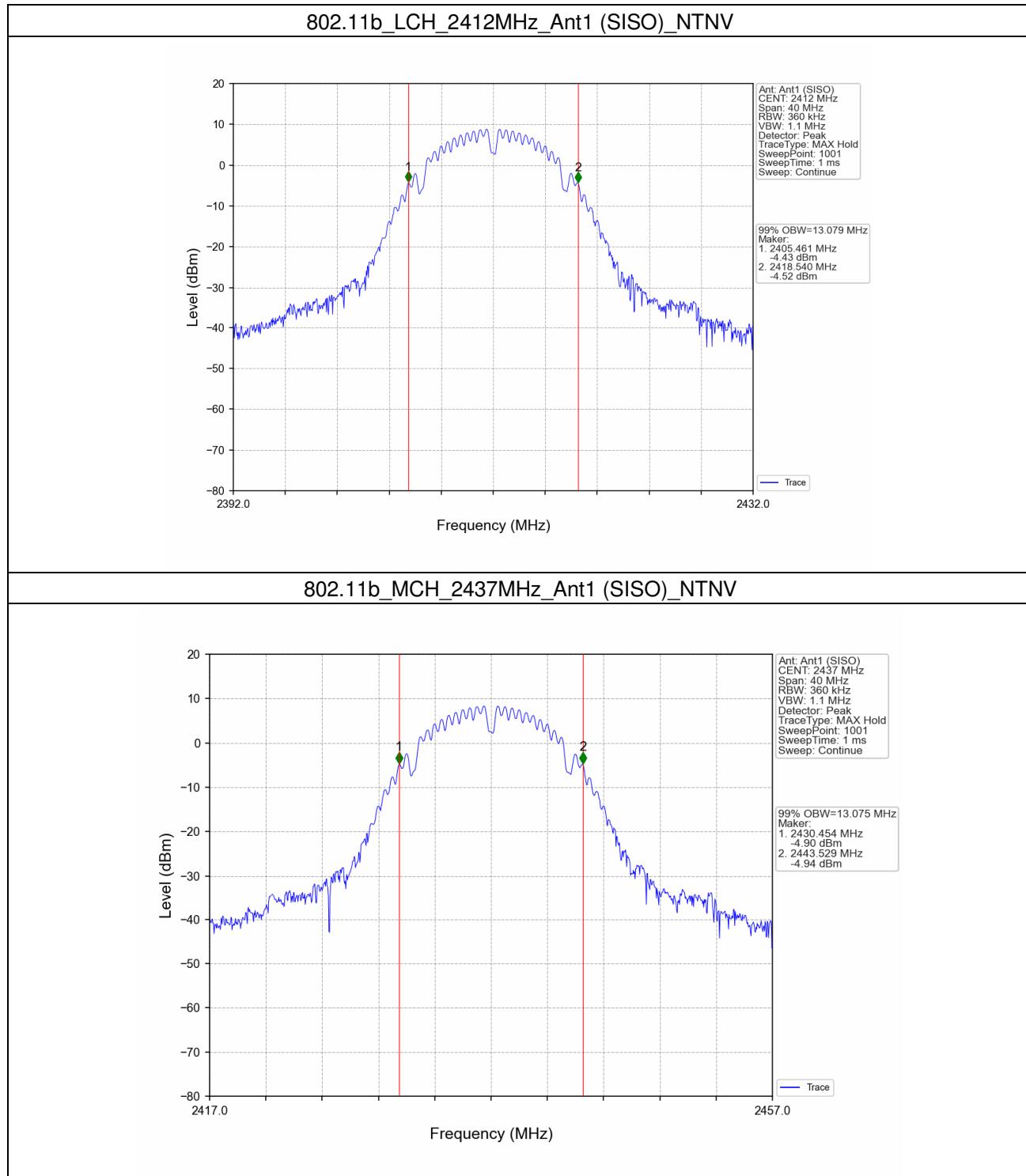
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2.1.2 Test Graph



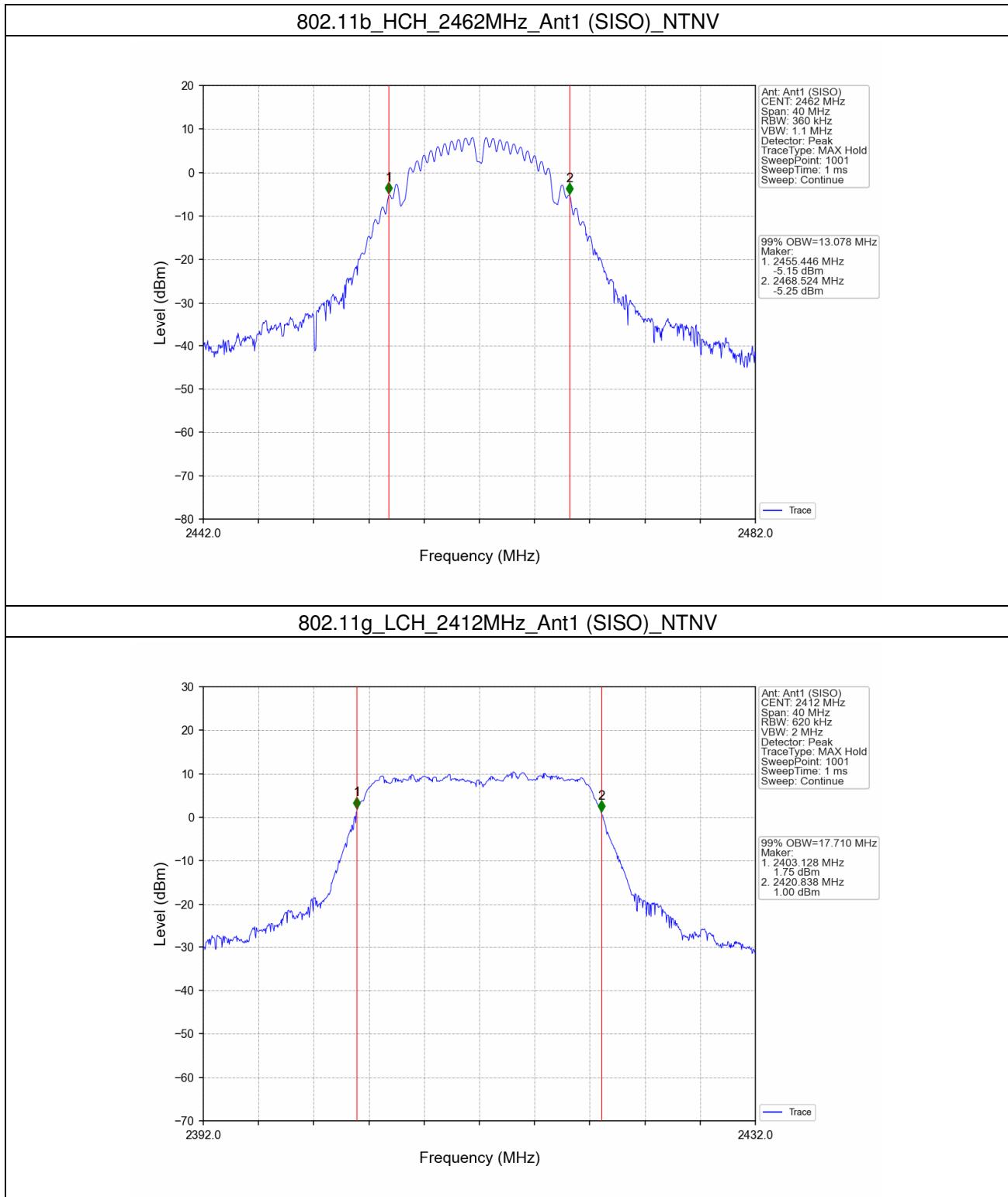
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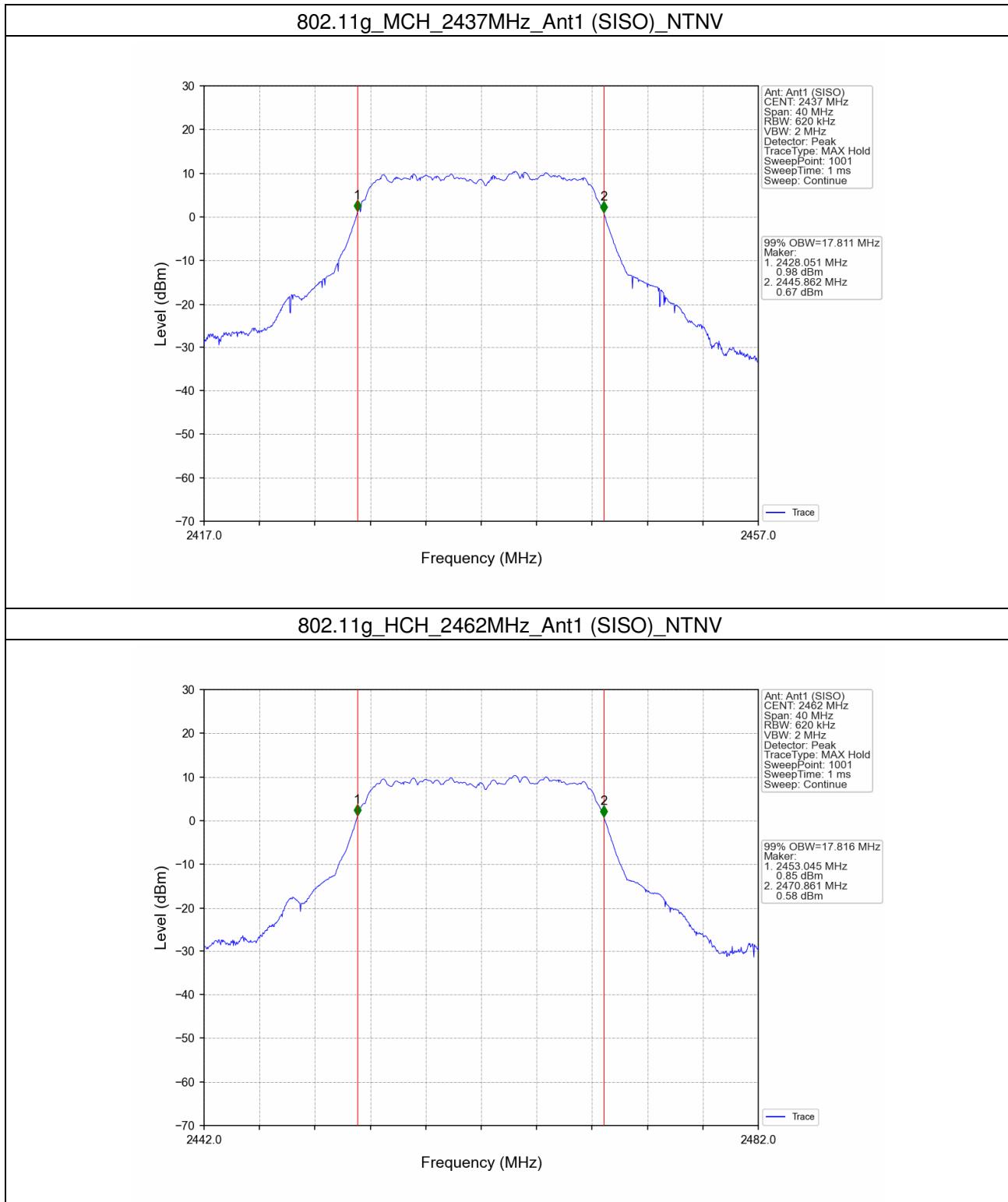
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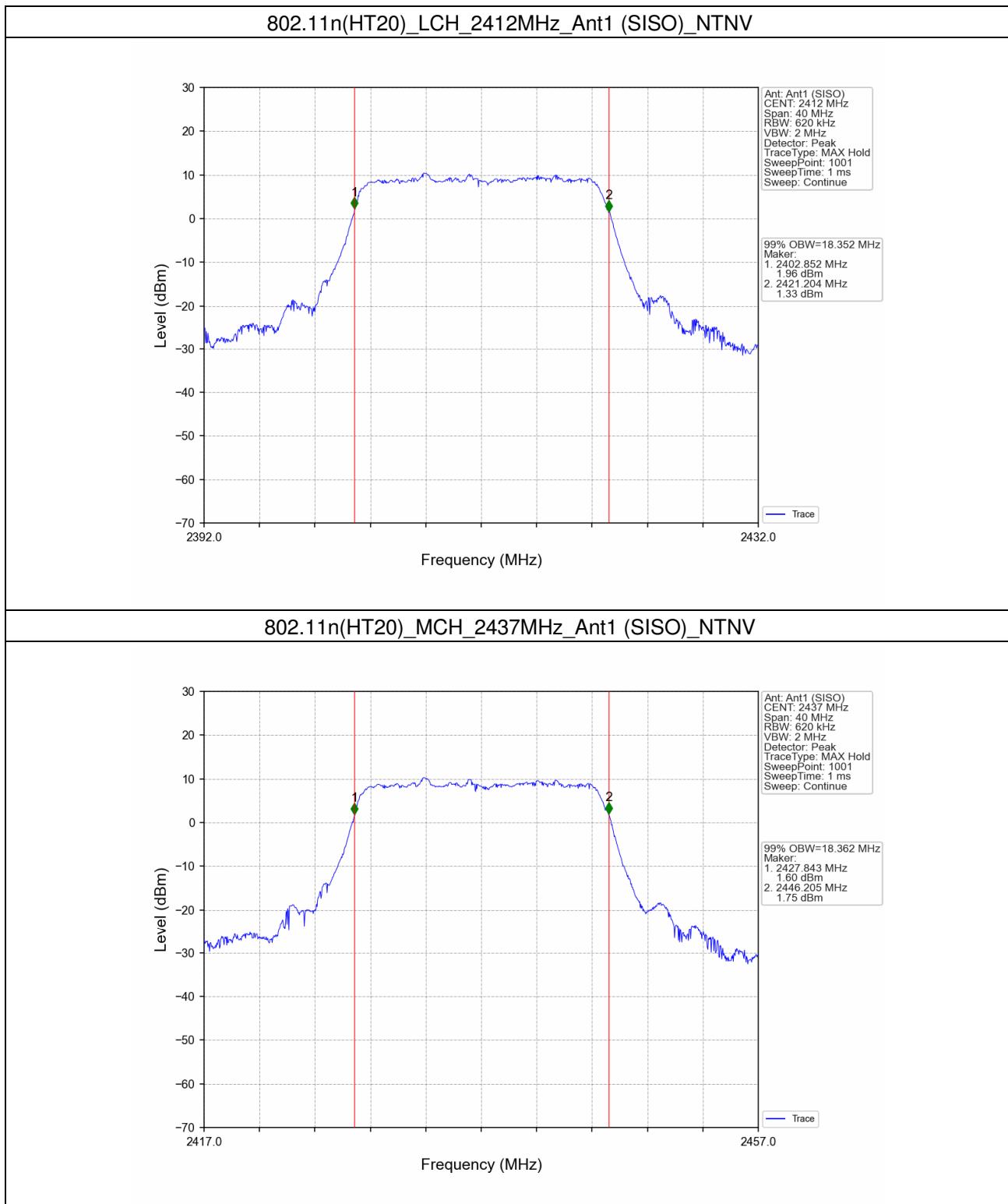
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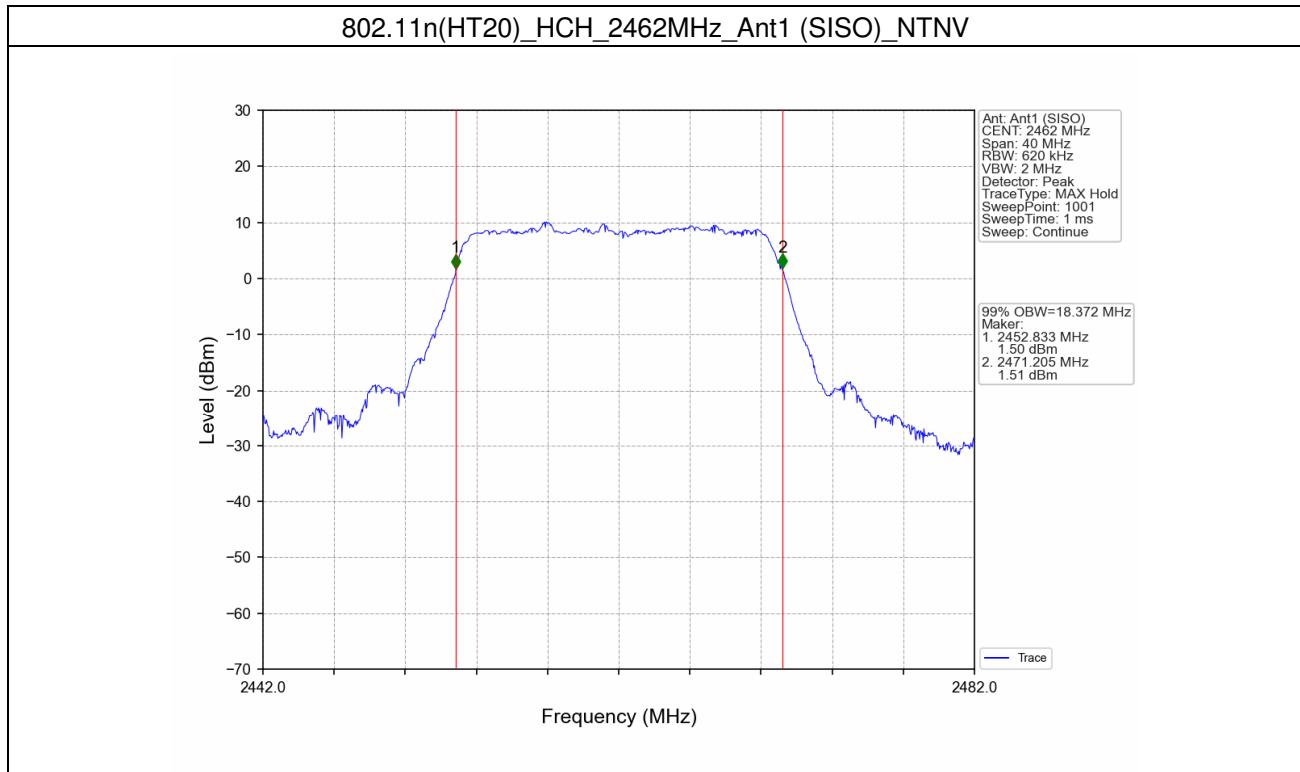
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2.2 6dB BW**2.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.076	>=0.5	Pass
		2437	1	9.064	>=0.5	Pass
		2462	1	9.085	>=0.5	Pass
802.11g	SISO	2412	1	16.401	>=0.5	Pass
		2437	1	16.387	>=0.5	Pass
		2462	1	16.403	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.585	>=0.5	Pass
		2437	1	17.615	>=0.5	Pass
		2462	1	17.598	>=0.5	Pass

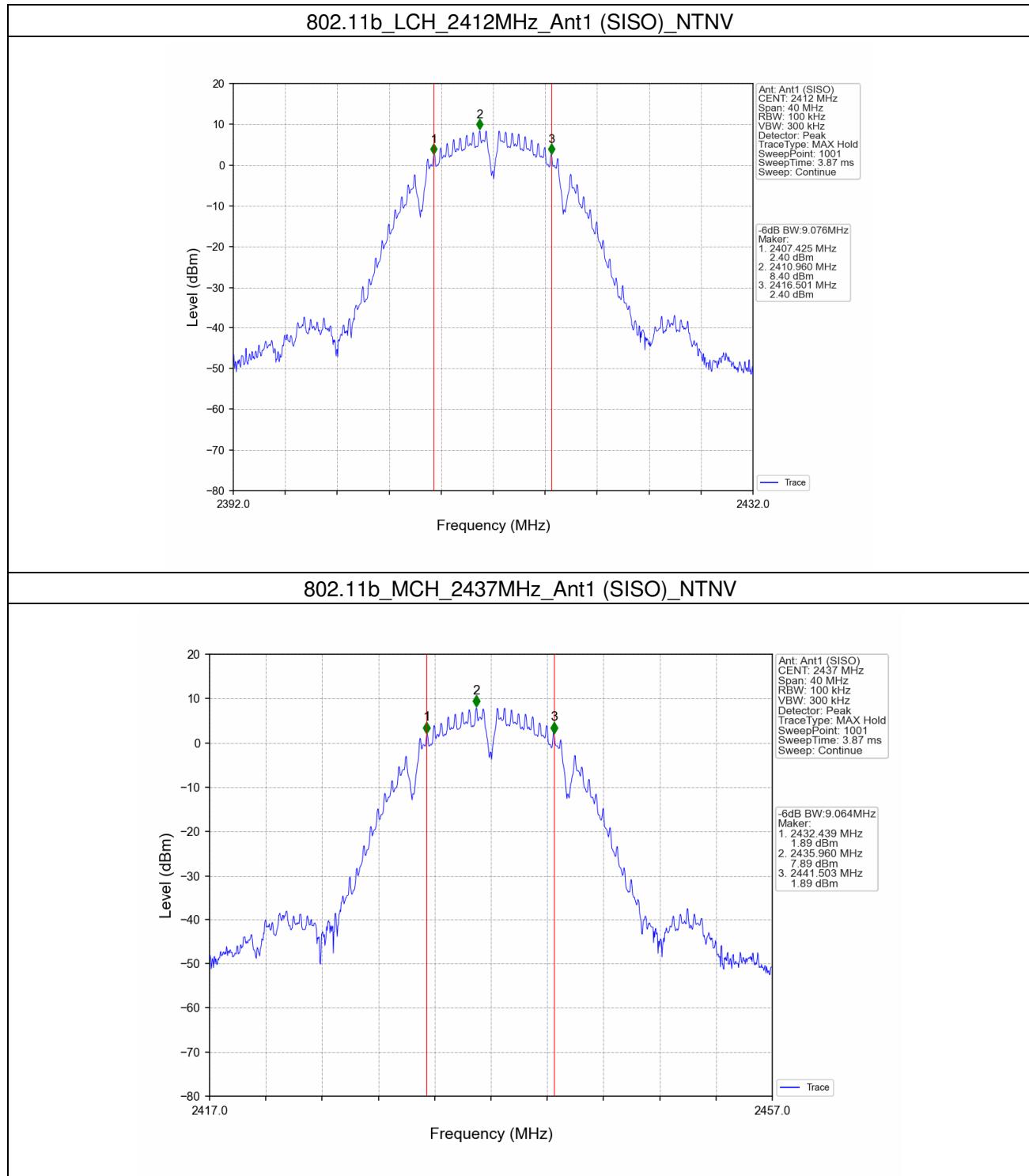
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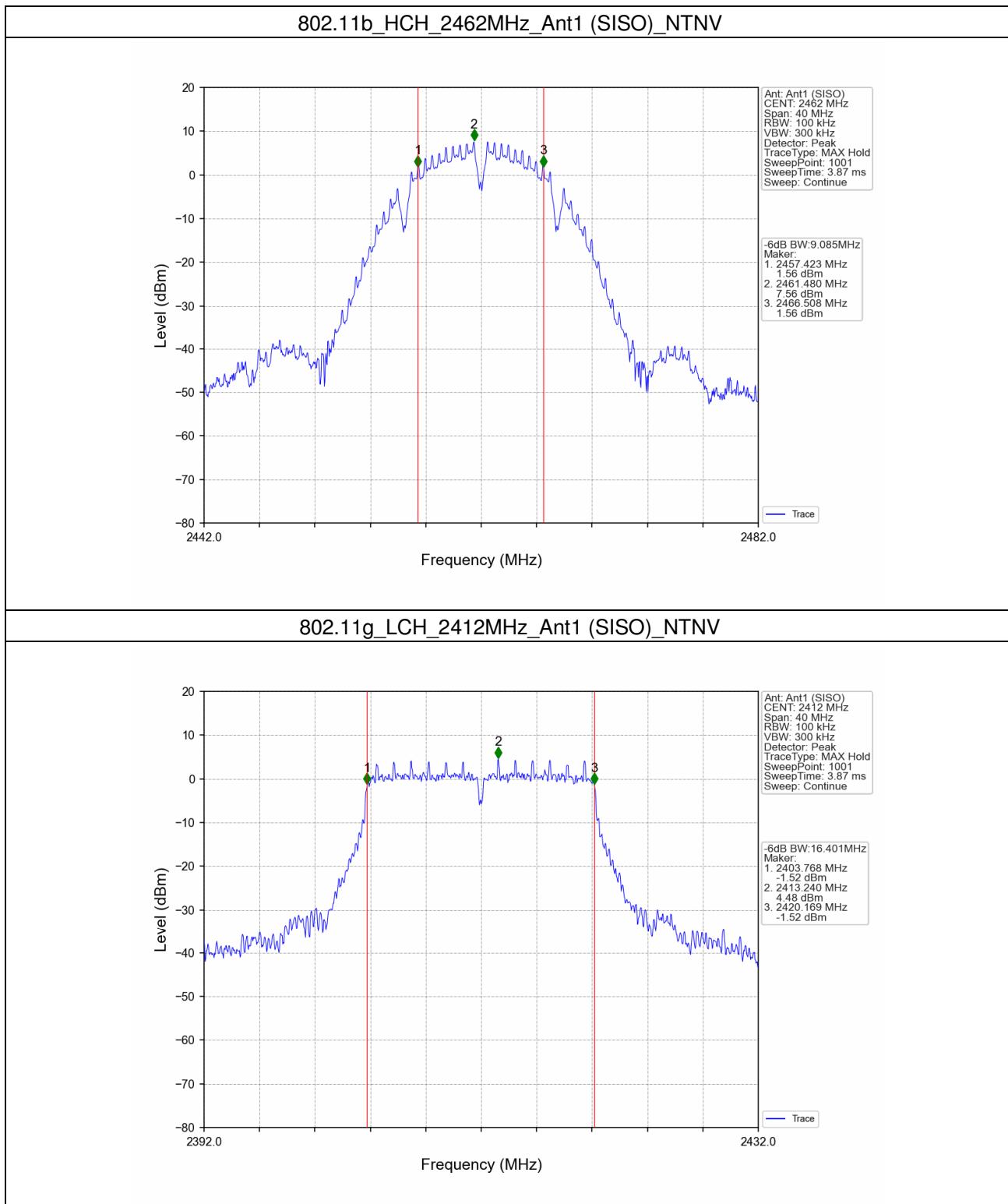
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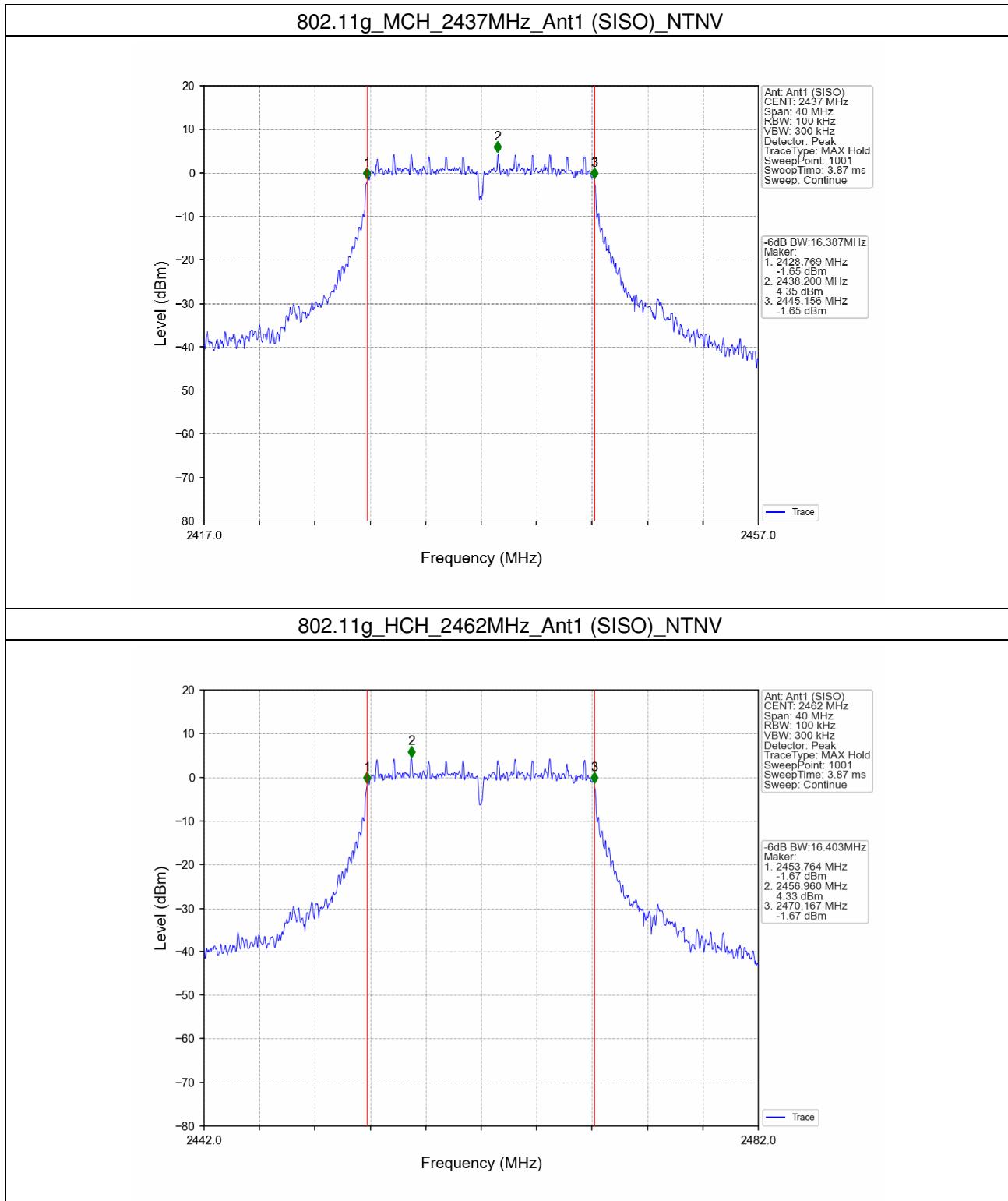
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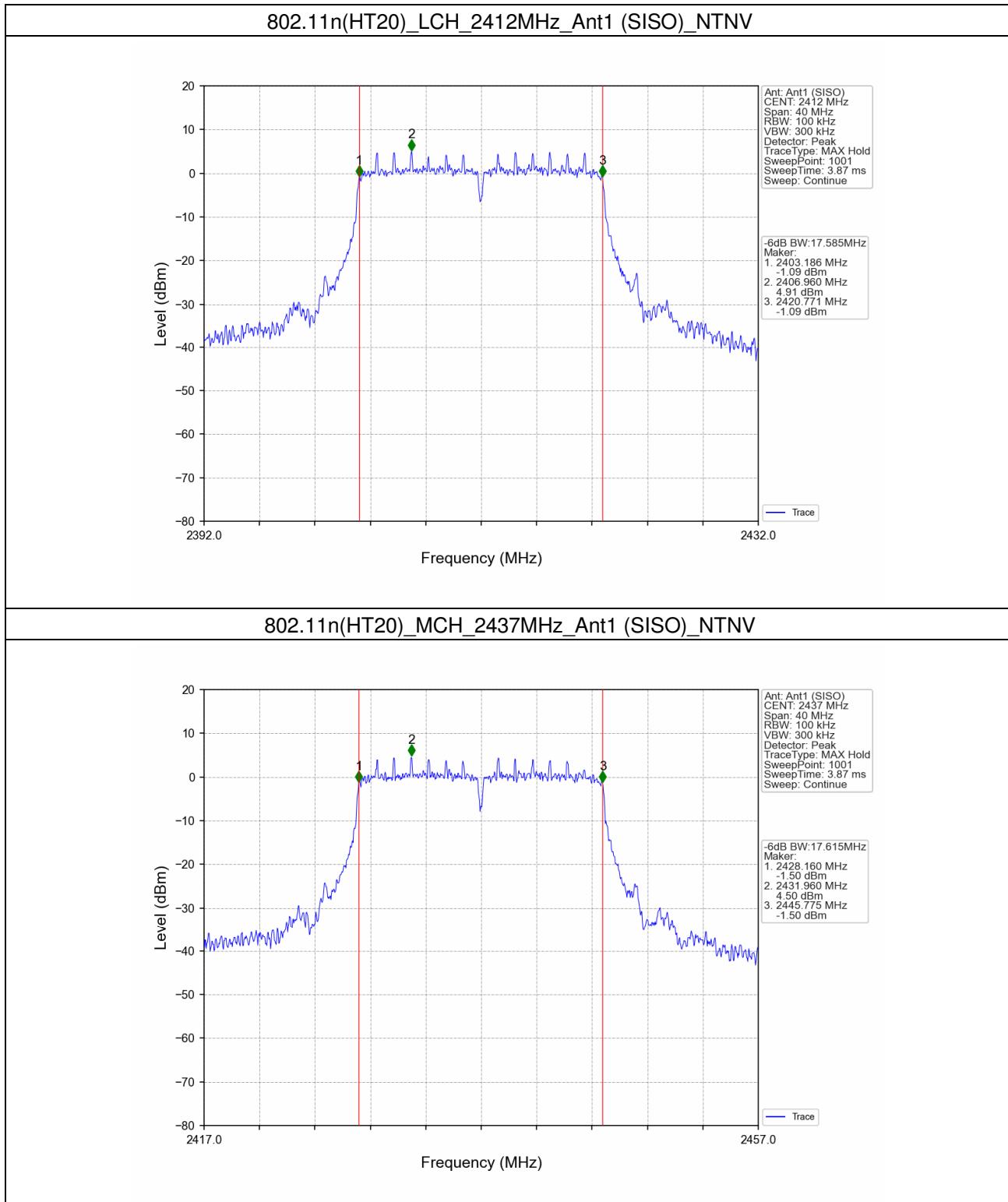
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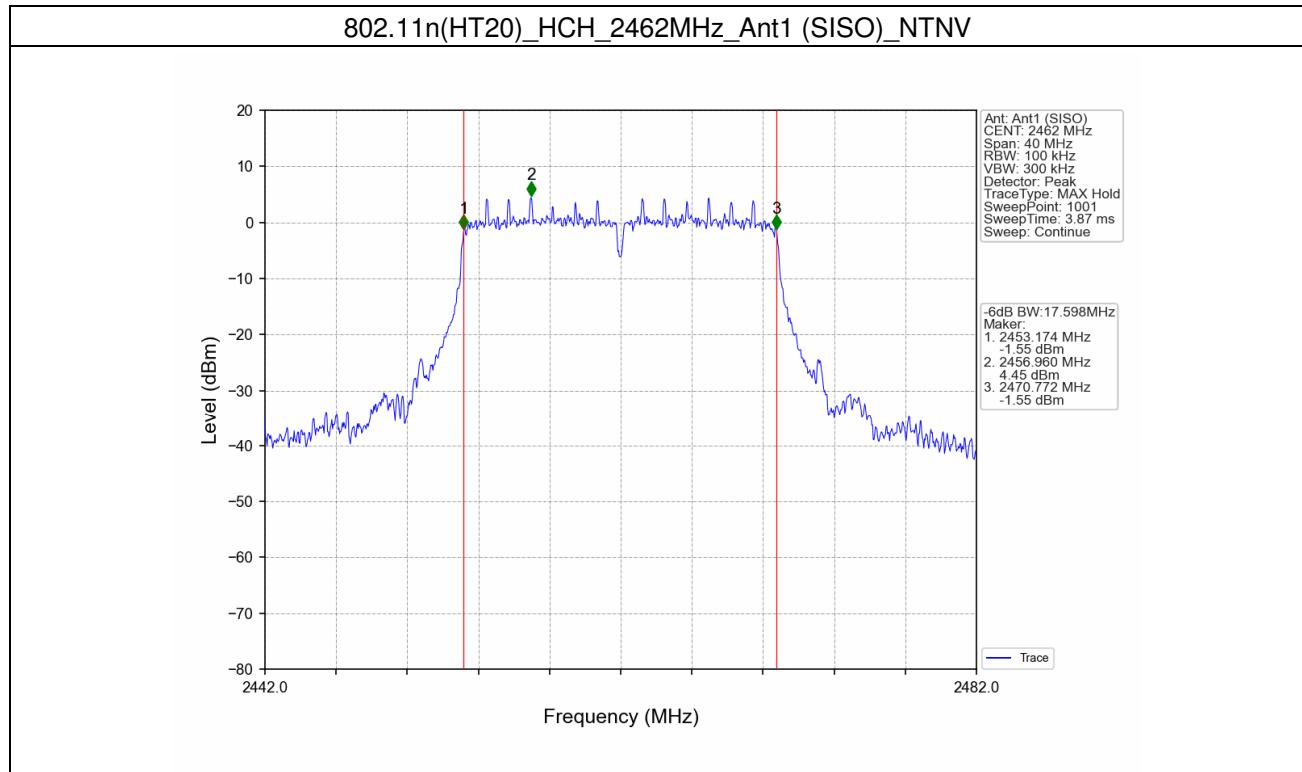
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2.2.2 Test Graph









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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.36	<=30	Pass
		2437	15.81	<=30	Pass
		2462	15.85	<=30	Pass
802.11g	SISO	2412	15.56	<=30	Pass
		2437	15.61	<=30	Pass
		2462	15.49	<=30	Pass
802.11n (HT20)	SISO	2412	15.71	<=30	Pass
		2437	15.22	<=30	Pass
		2462	15.34	<=30	Pass



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-6.21	<=8	Pass
		2437	-5.83	<=8	Pass
		2462	-6.01	<=8	Pass
802.11g	SISO	2412	-9.17	<=8	Pass
		2437	-9.33	<=8	Pass
		2462	-9.90	<=8	Pass
802.11n (HT20)	SISO	2412	-9.42	<=8	Pass
		2437	-10.21	<=8	Pass
		2462	-9.73	<=8	Pass



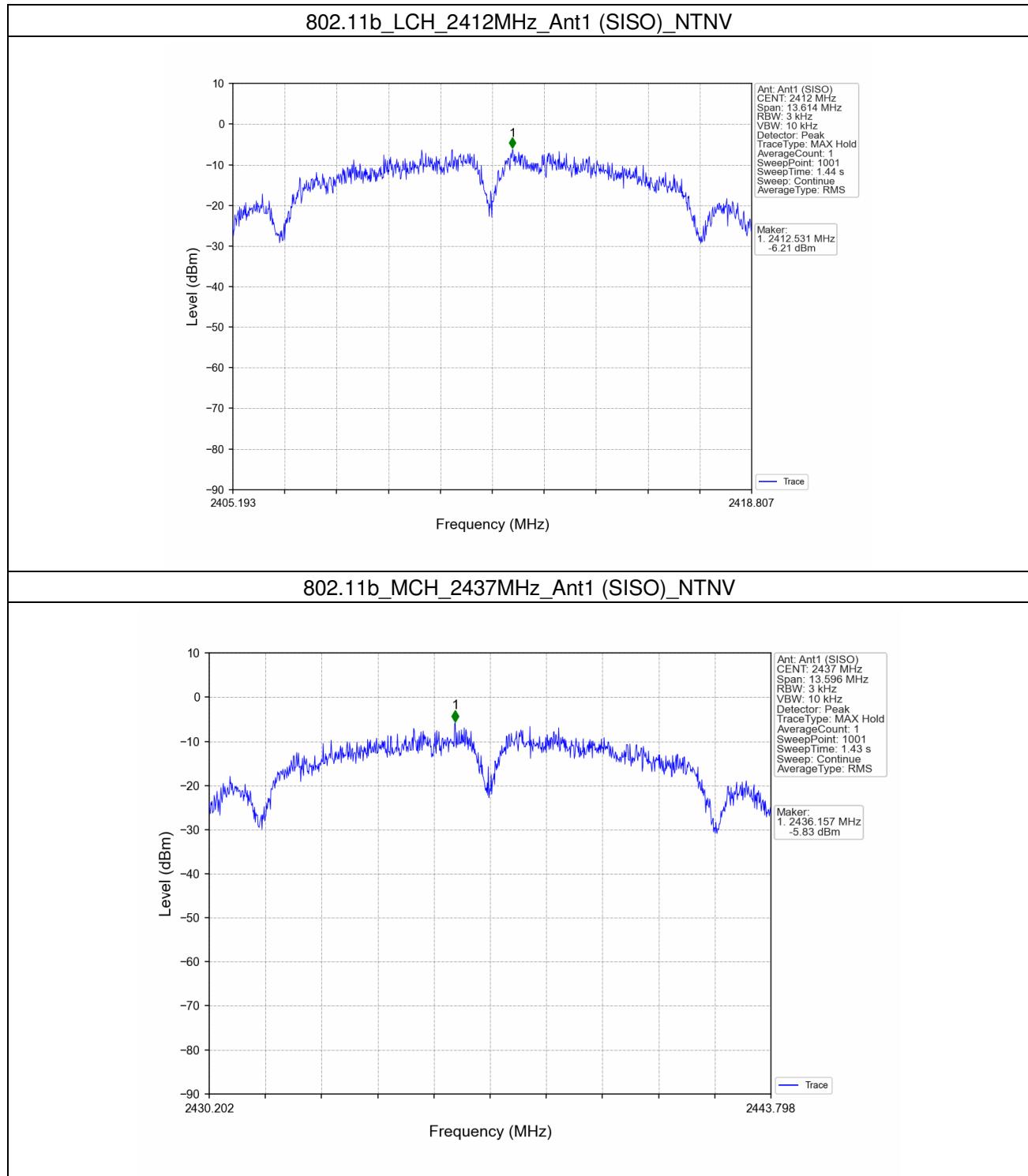
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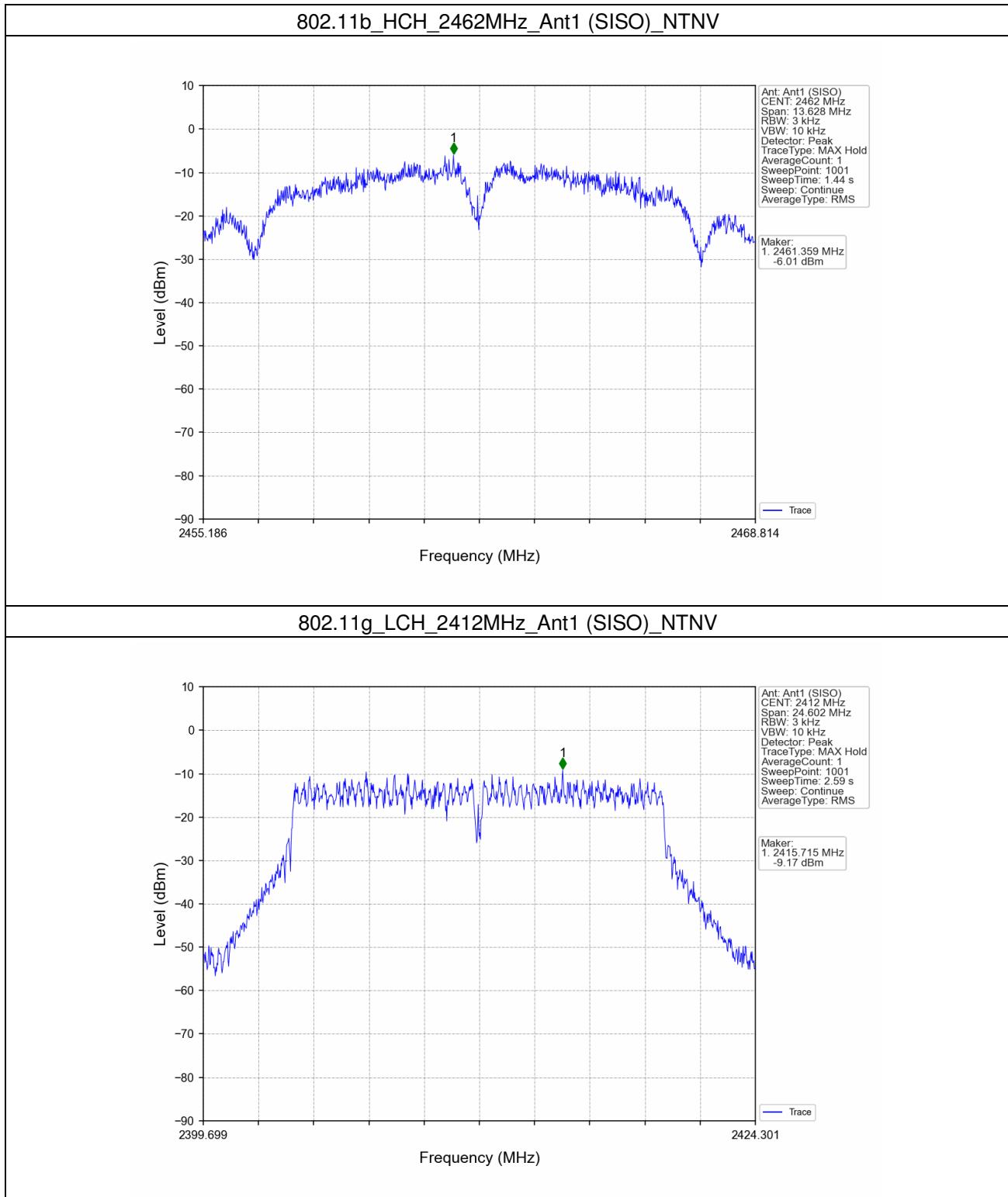
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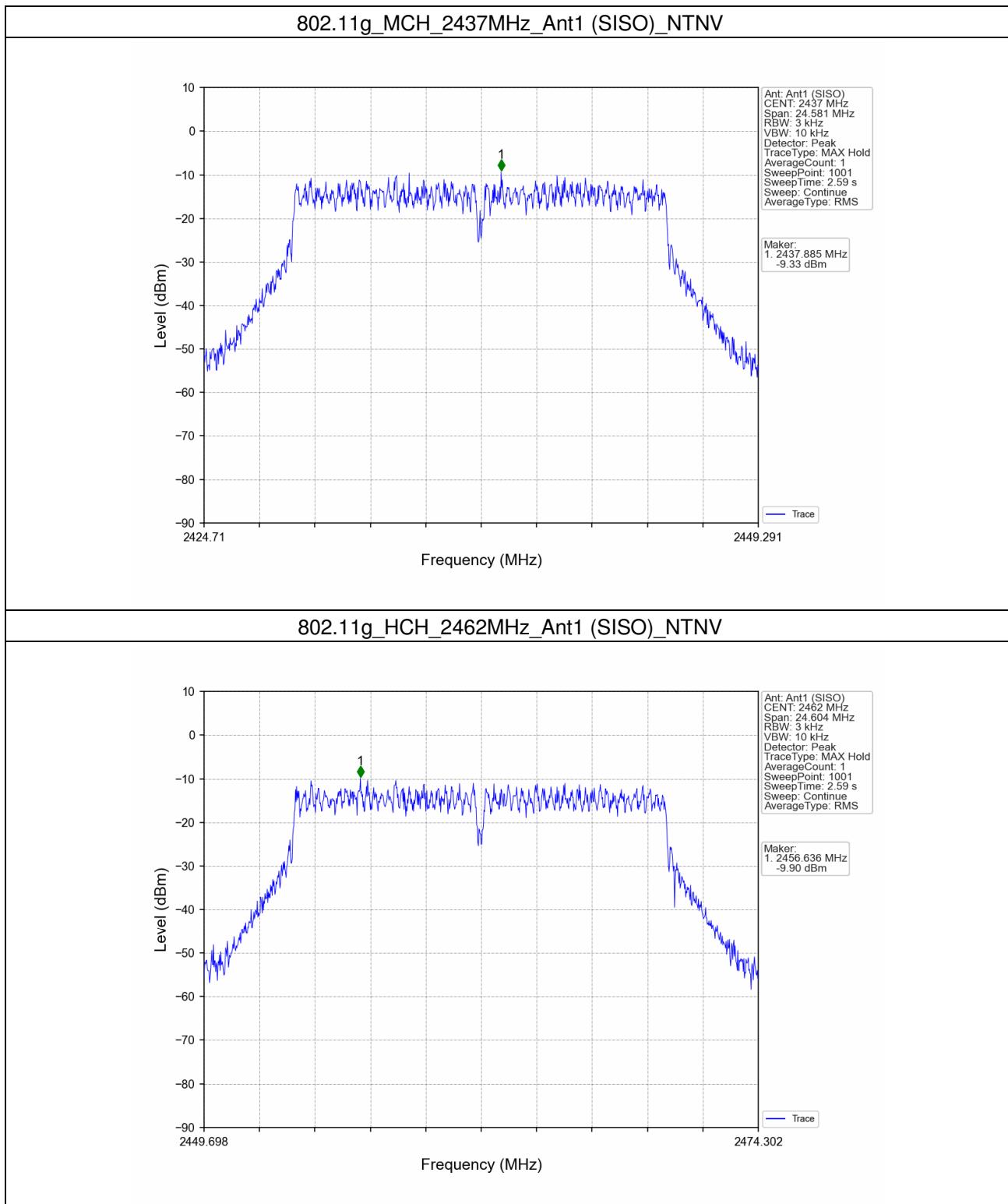
4.1.2 Test Graph





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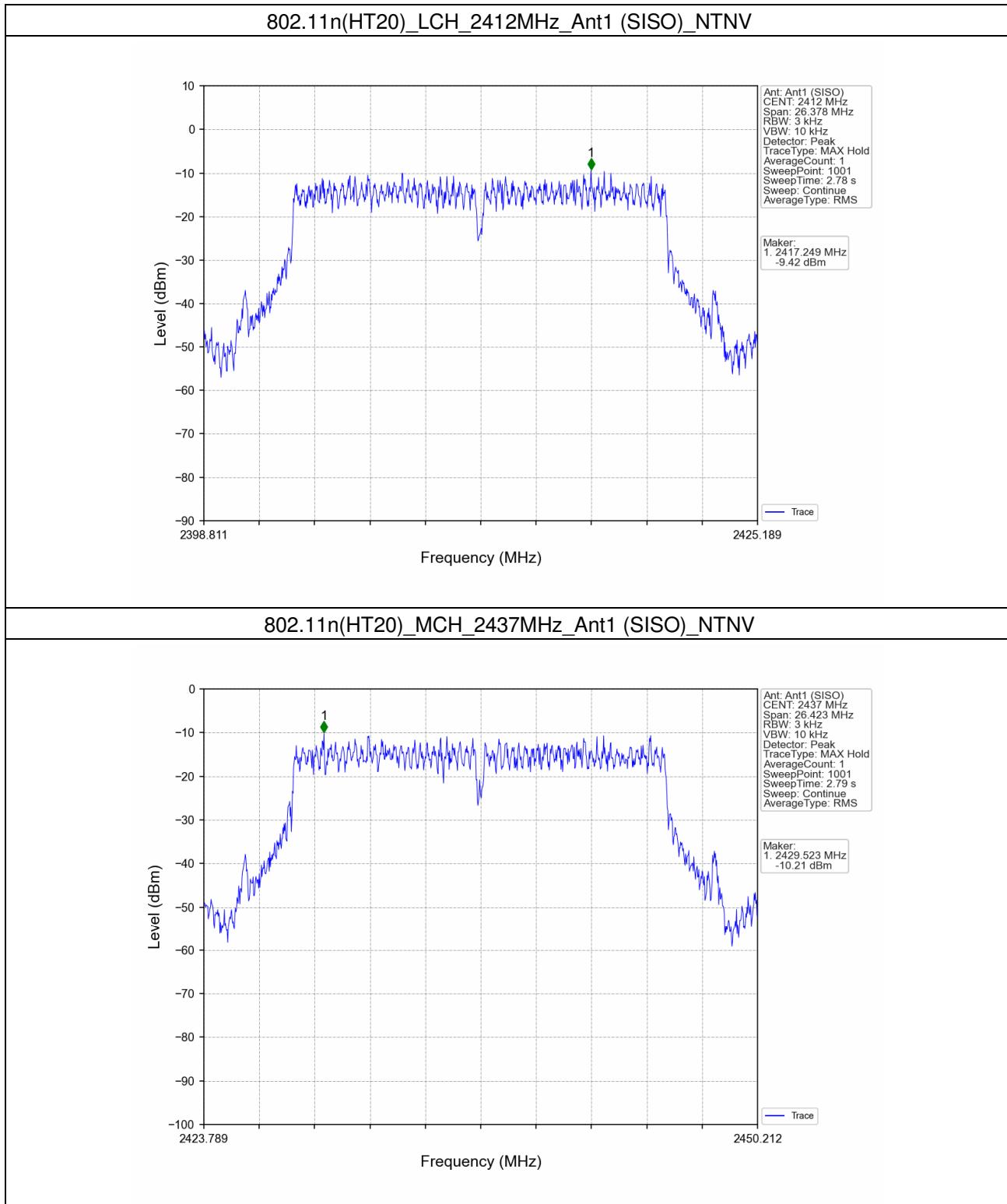


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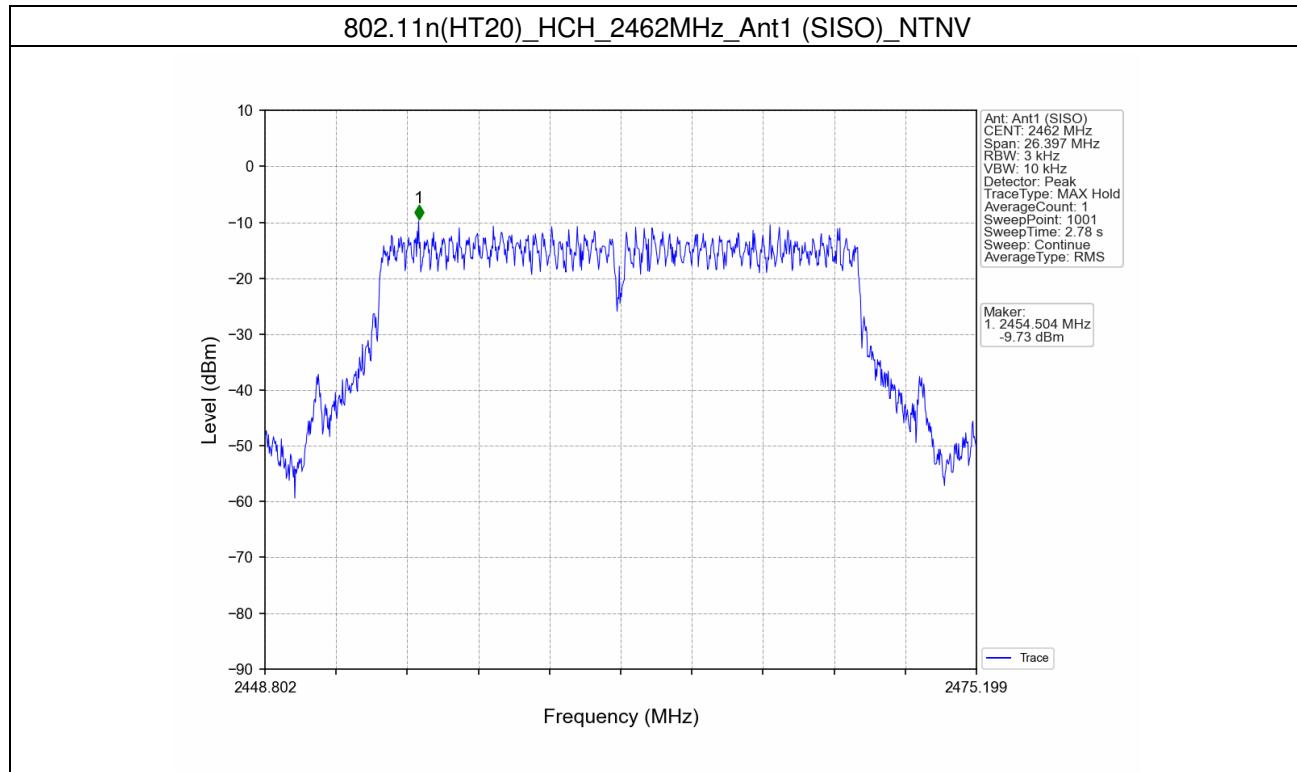


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	8.42
		2437	1	7.94
		2462	1	7.53
802.11g	SISO	2412	1	4.19
		2437	1	4.47
		2462	1	4.25
802.11n (HT20)	SISO	2412	1	4.73
		2437	1	3.95
		2462	1	4.25



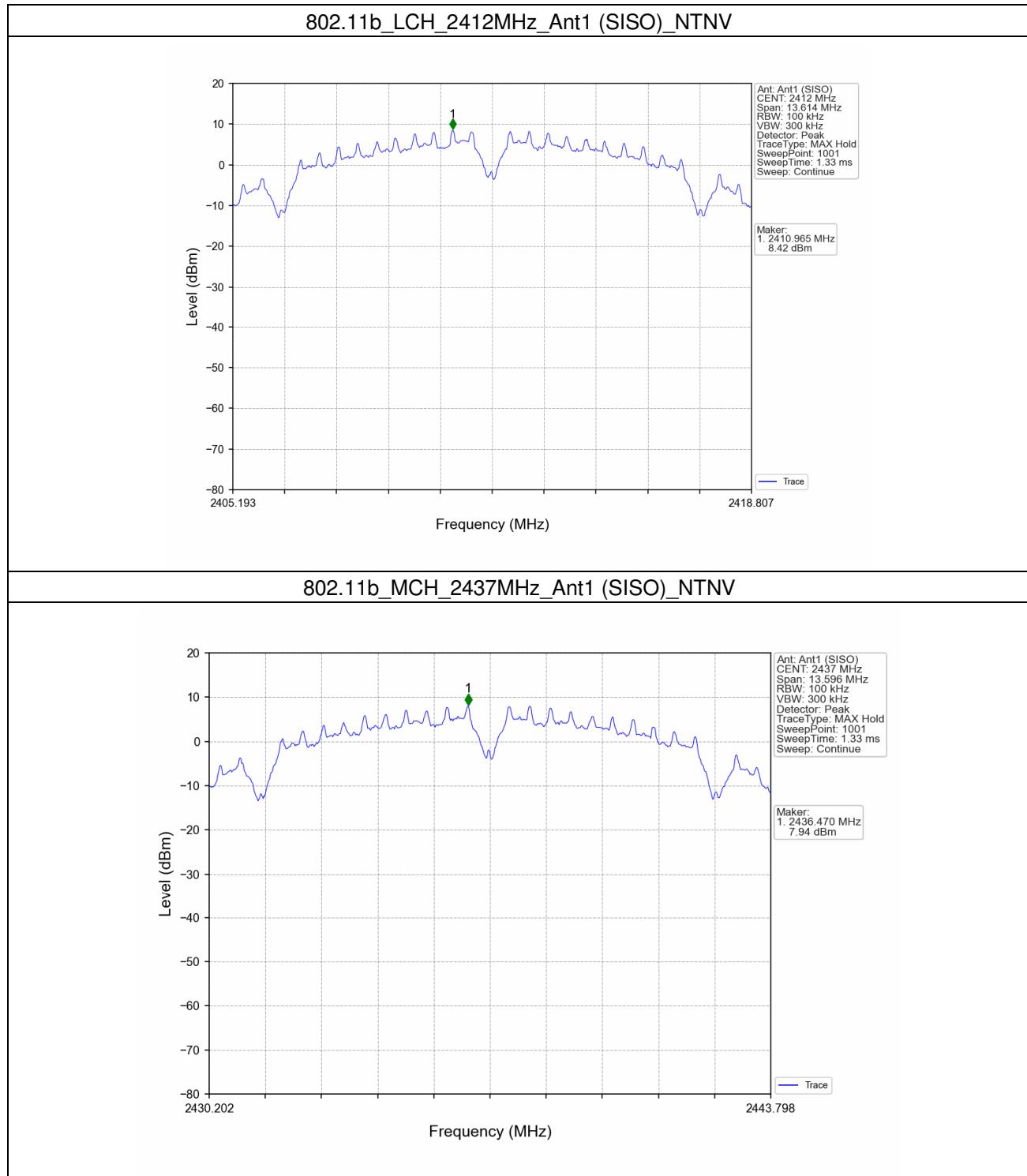
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5.1.2 Test Graph



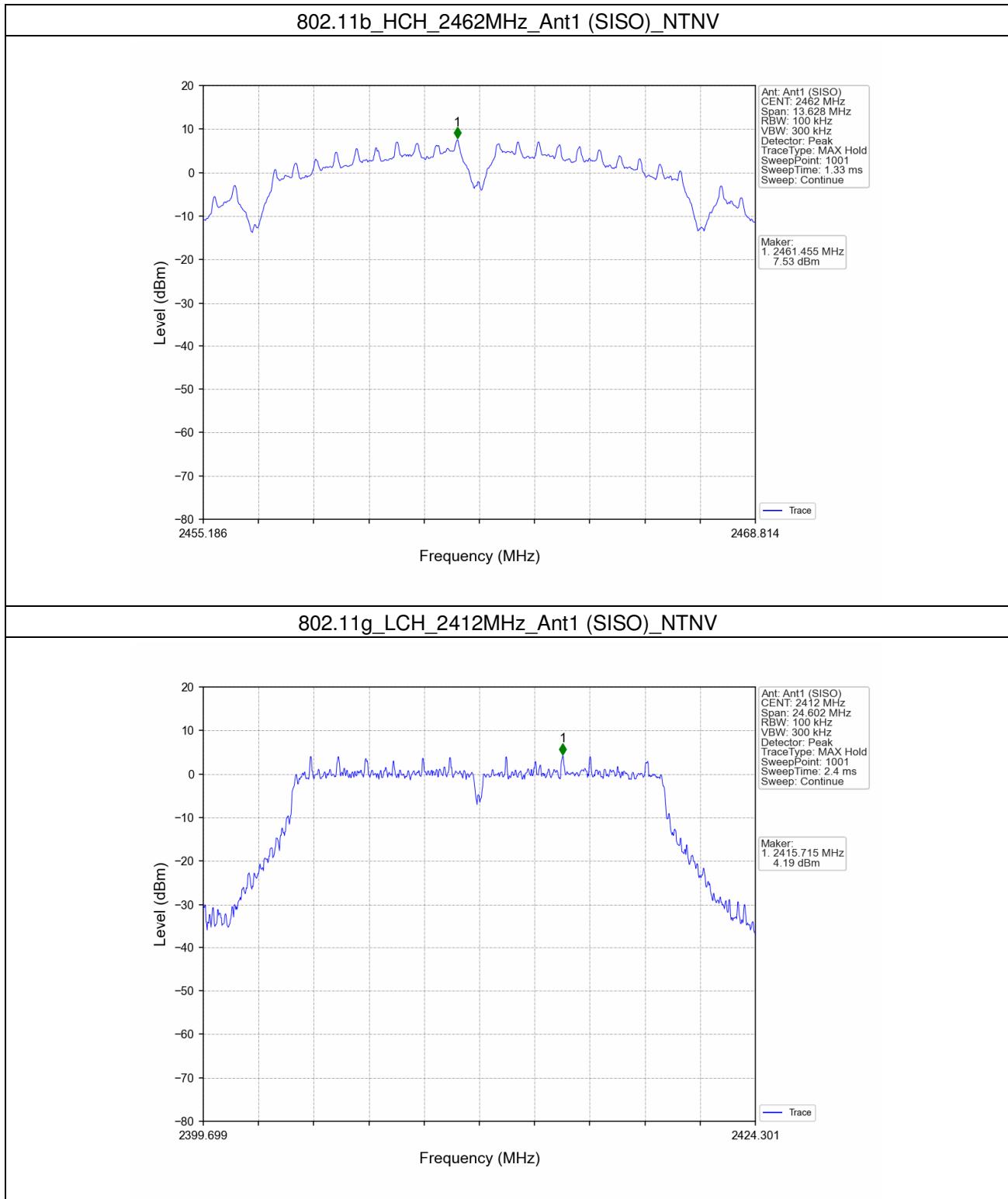
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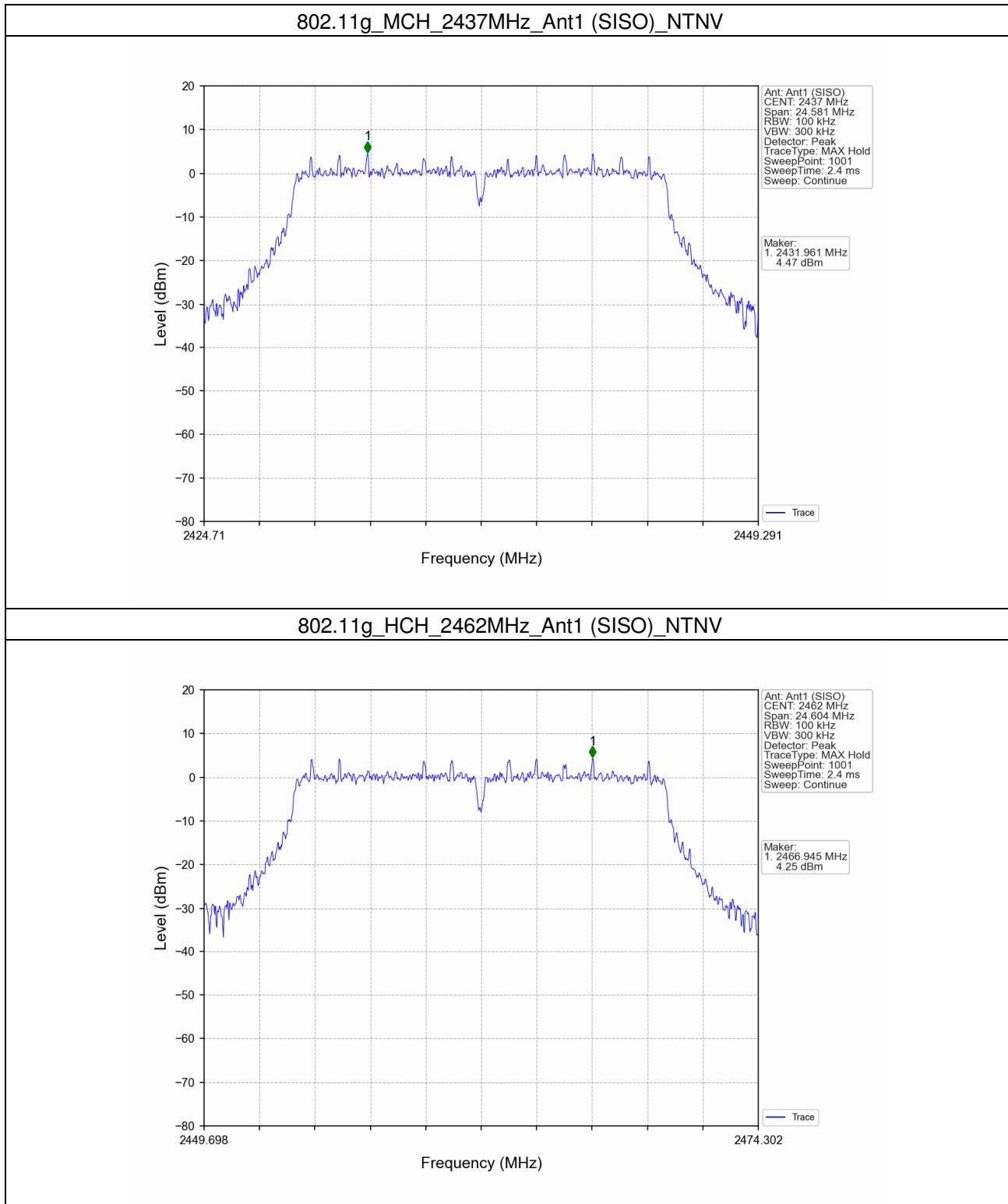
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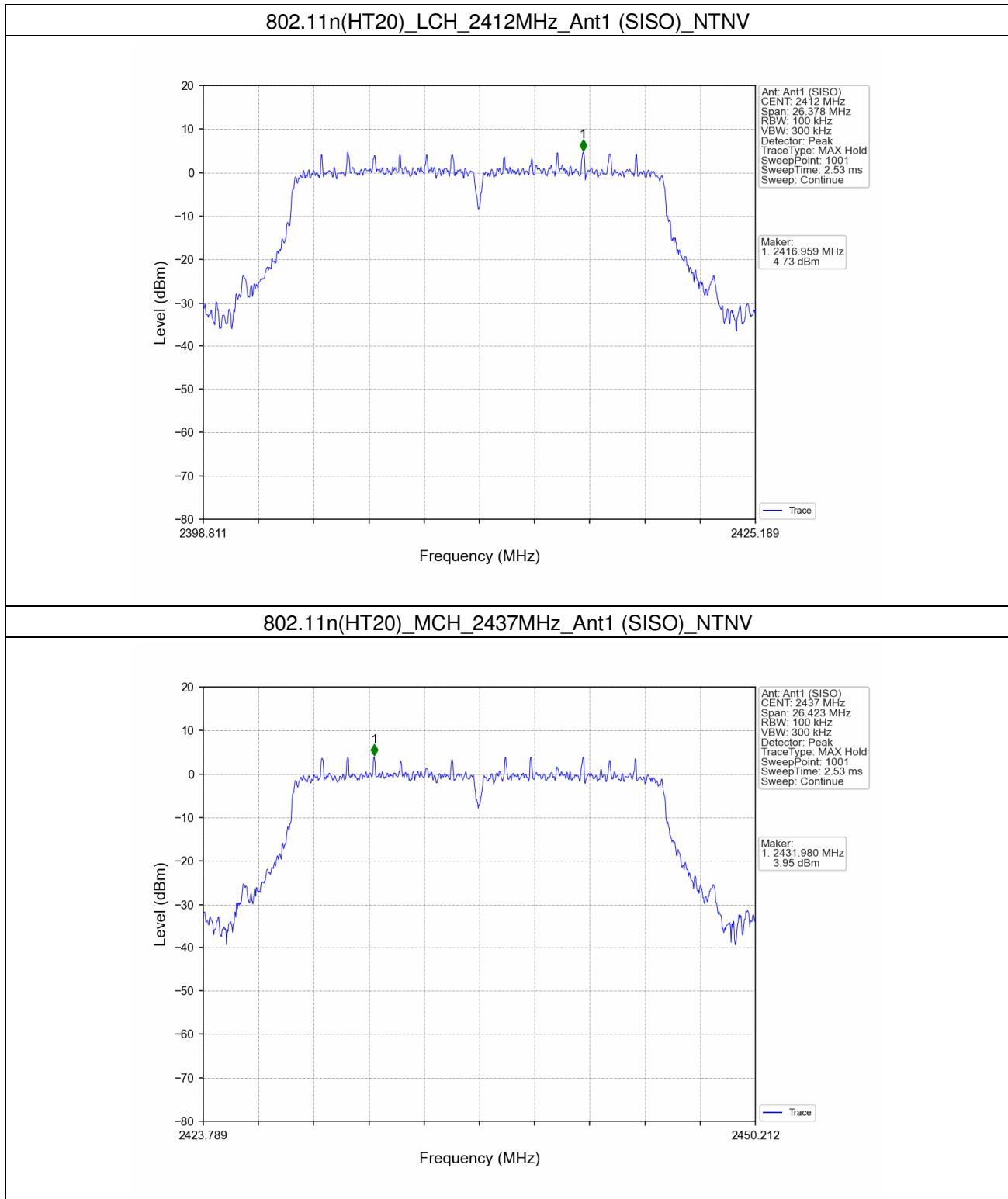
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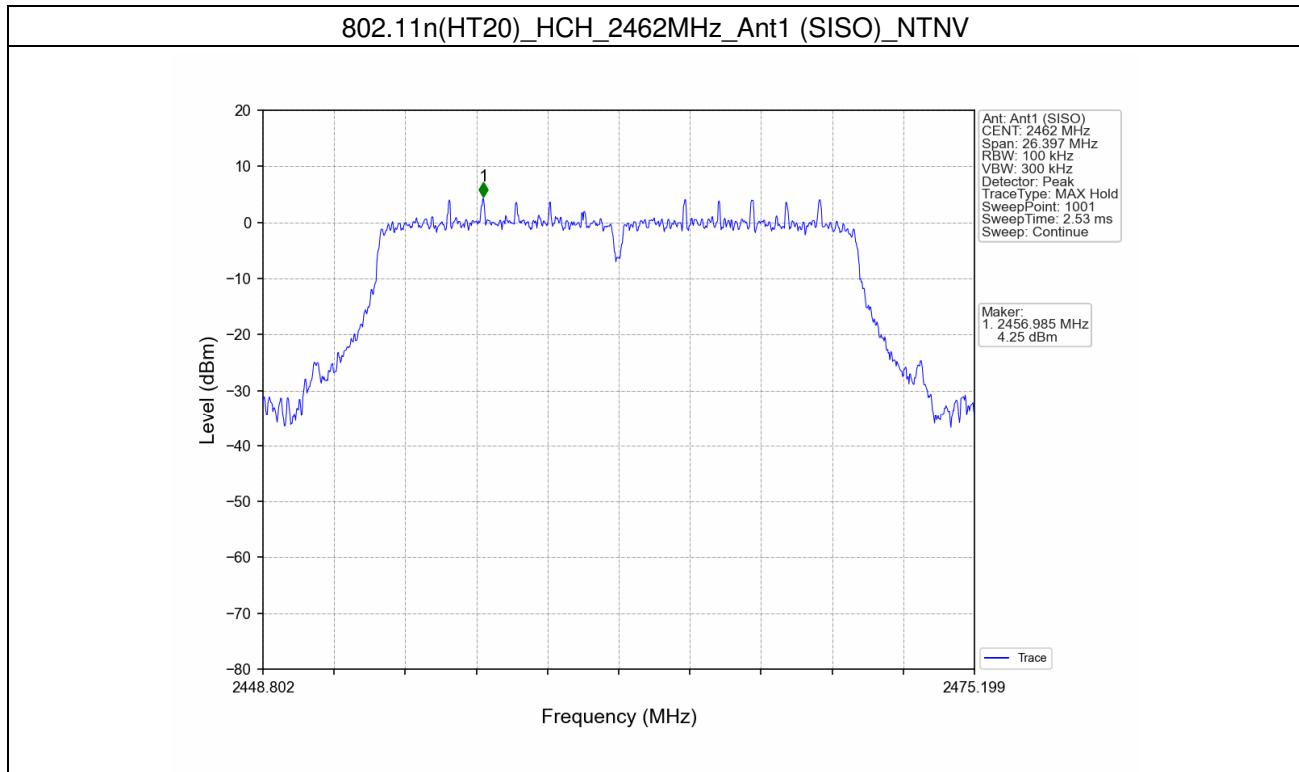


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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.42	-21.58	Pass
		2437	1	8.42	-21.58	Pass
		2462	1	8.42	-21.58	Pass
802.11g	SISO	2412	1	4.47	-25.53	Pass
		2437	1	4.47	-25.53	Pass
		2462	1	4.47	-25.53	Pass
802.11n (HT20)	SISO	2412	1	4.73	-25.27	Pass
		2437	1	4.73	-25.27	Pass
		2462	1	4.73	-25.27	Pass

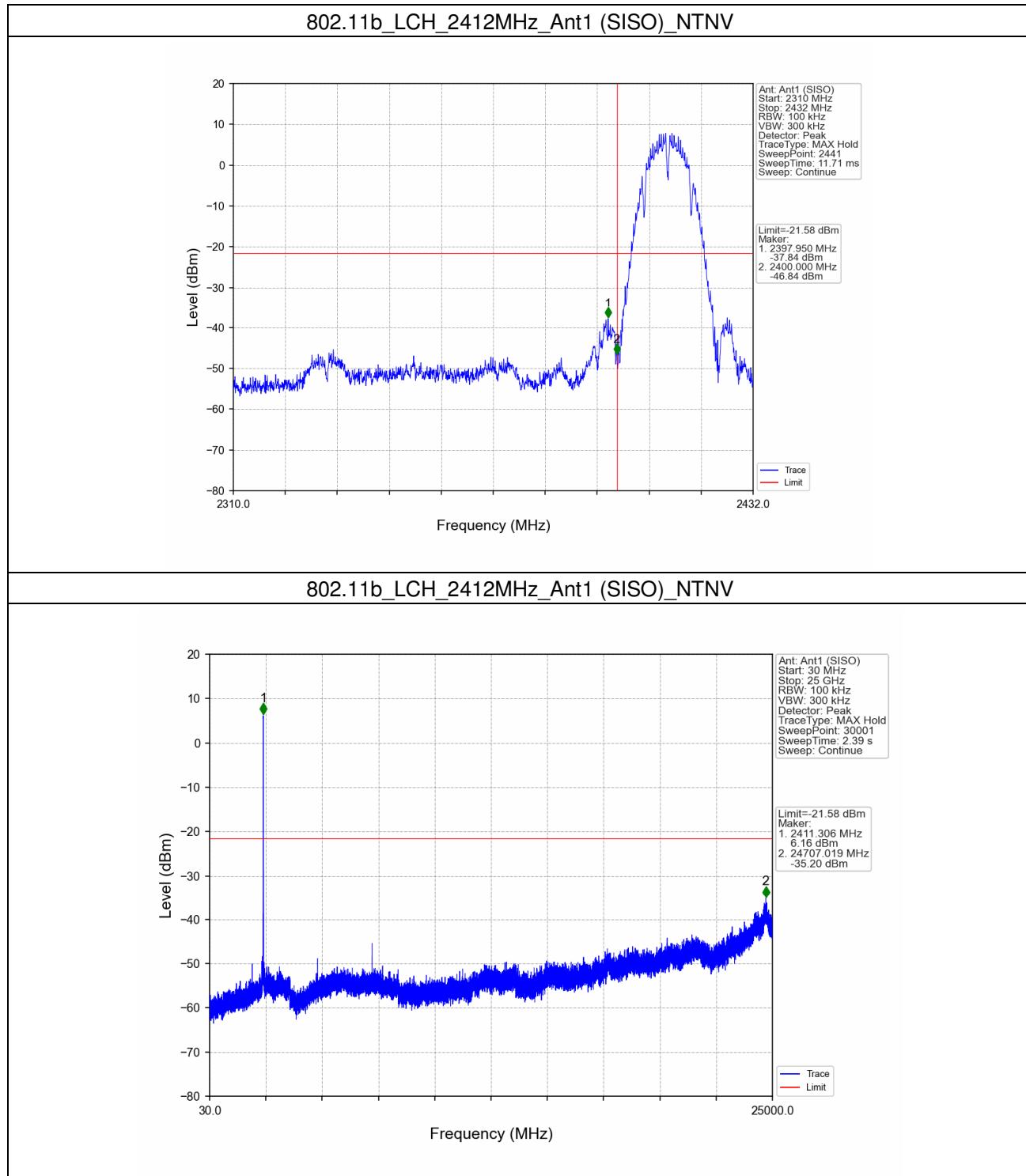


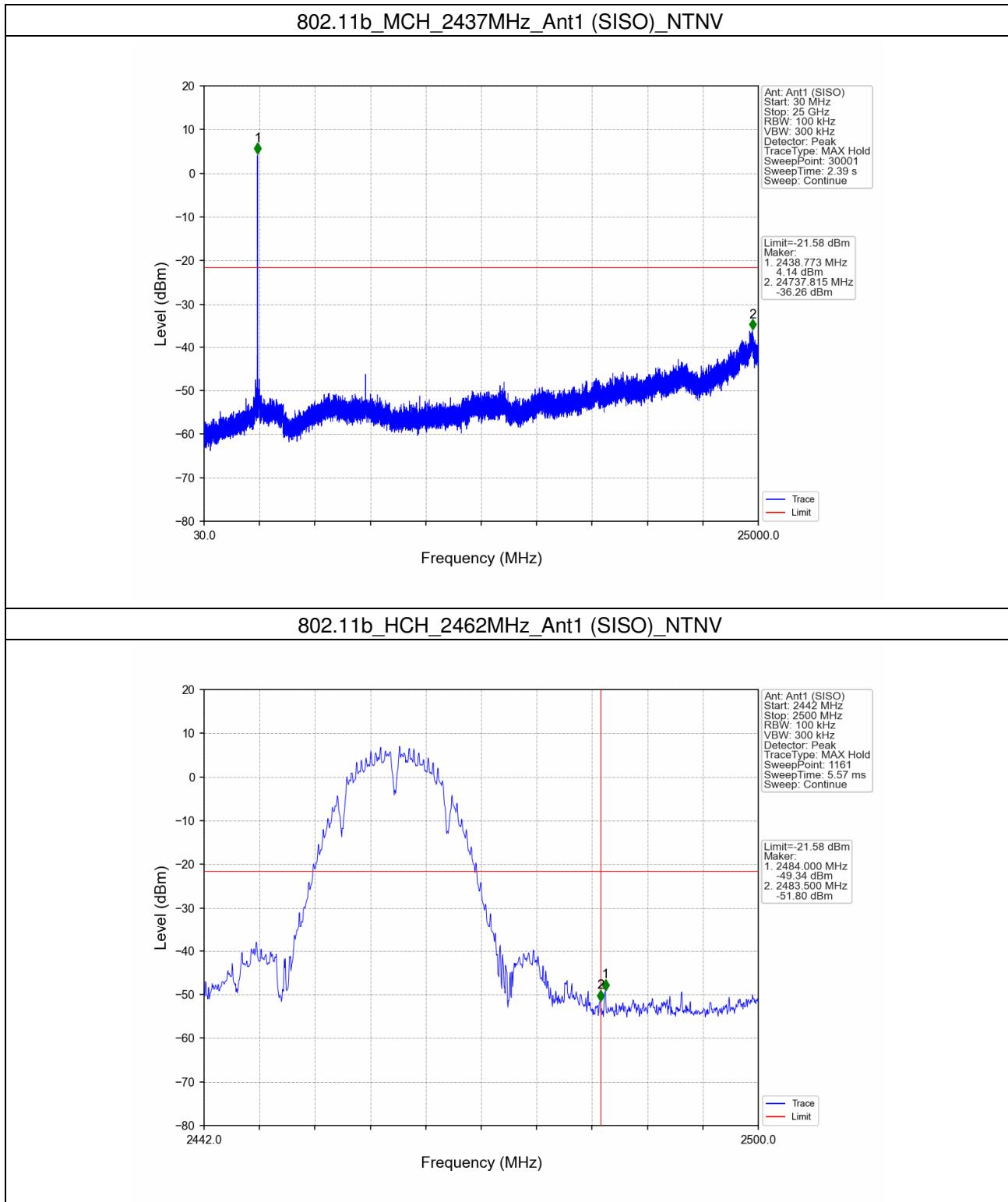
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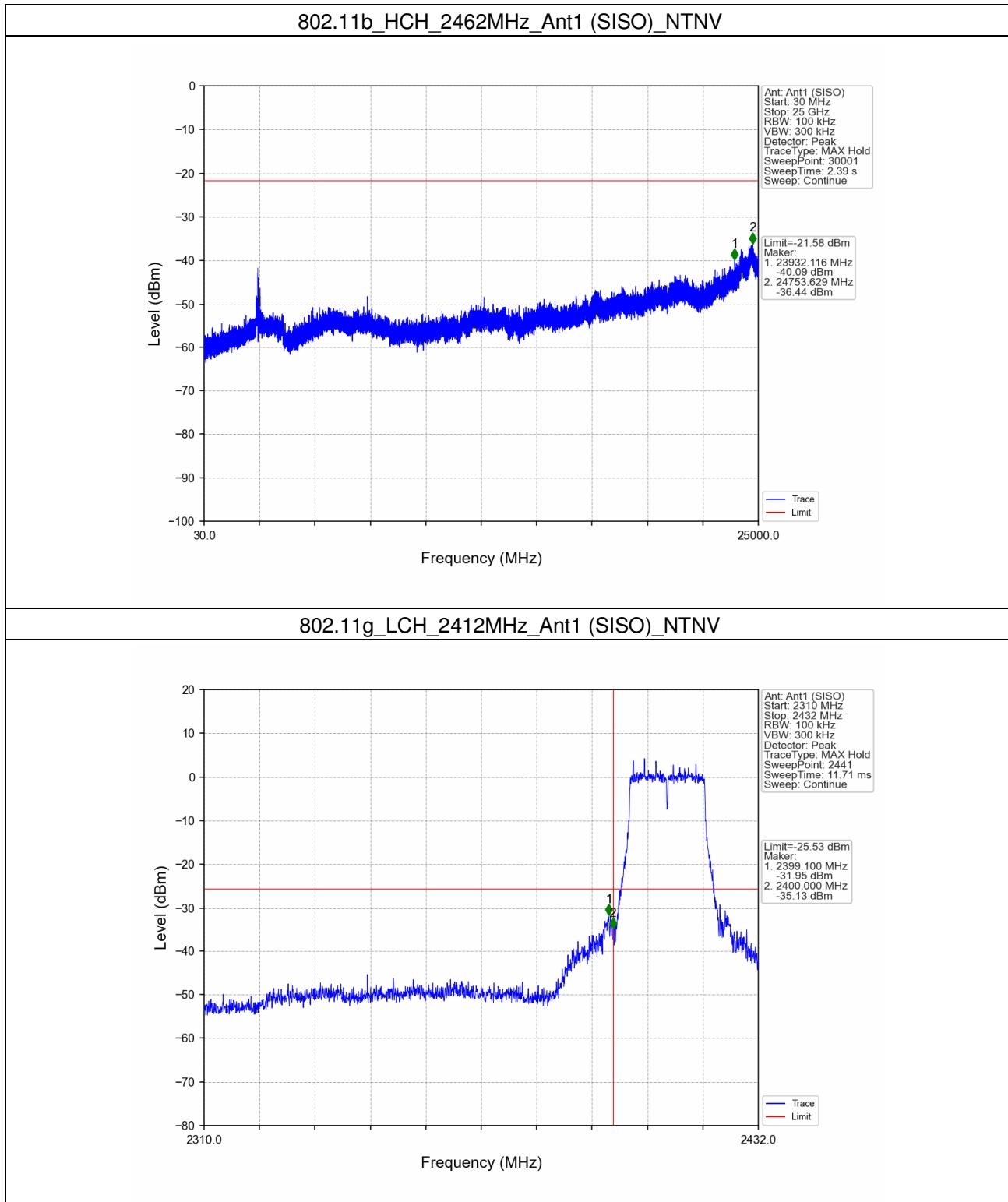
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5.2.2 Test Graph





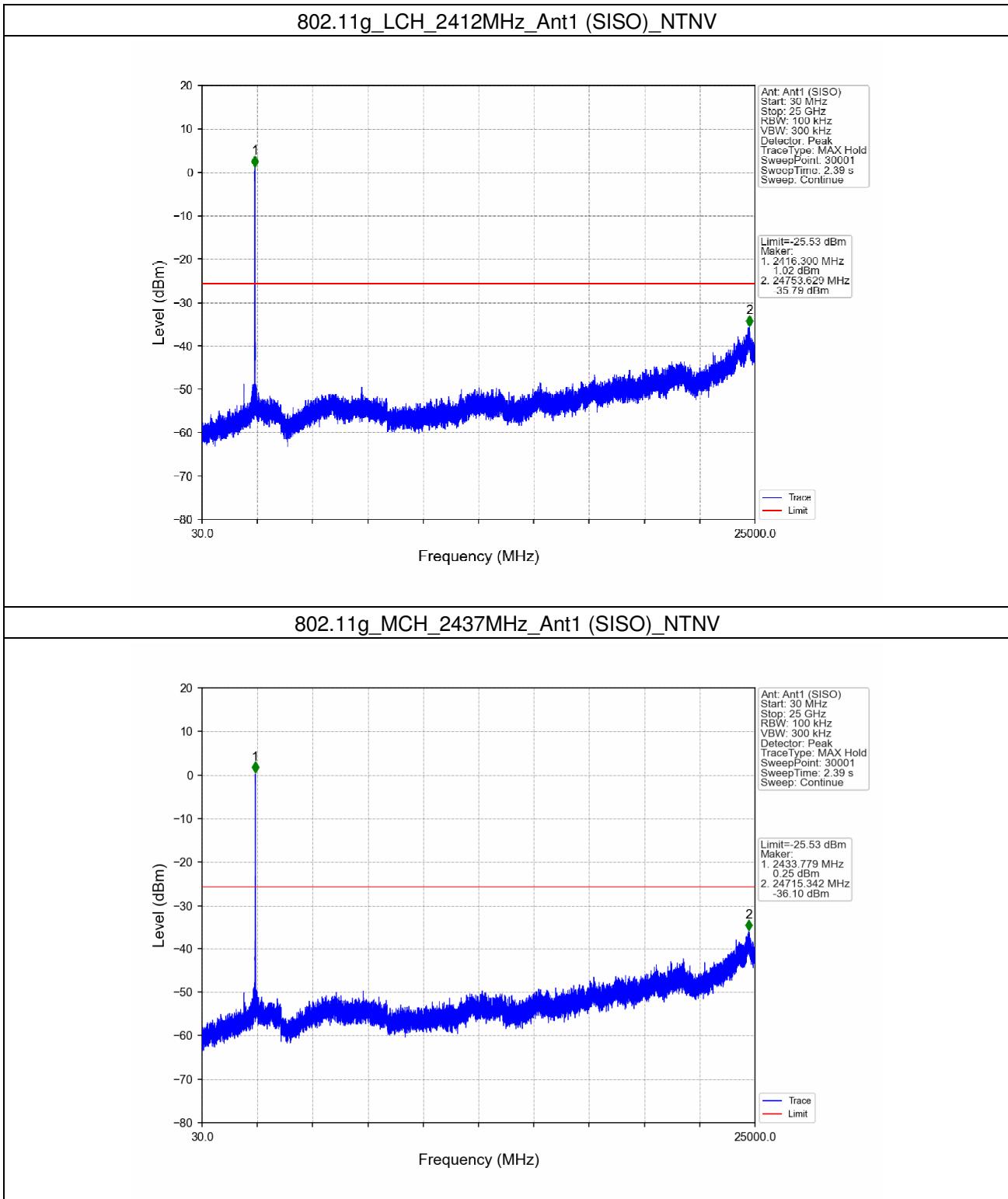
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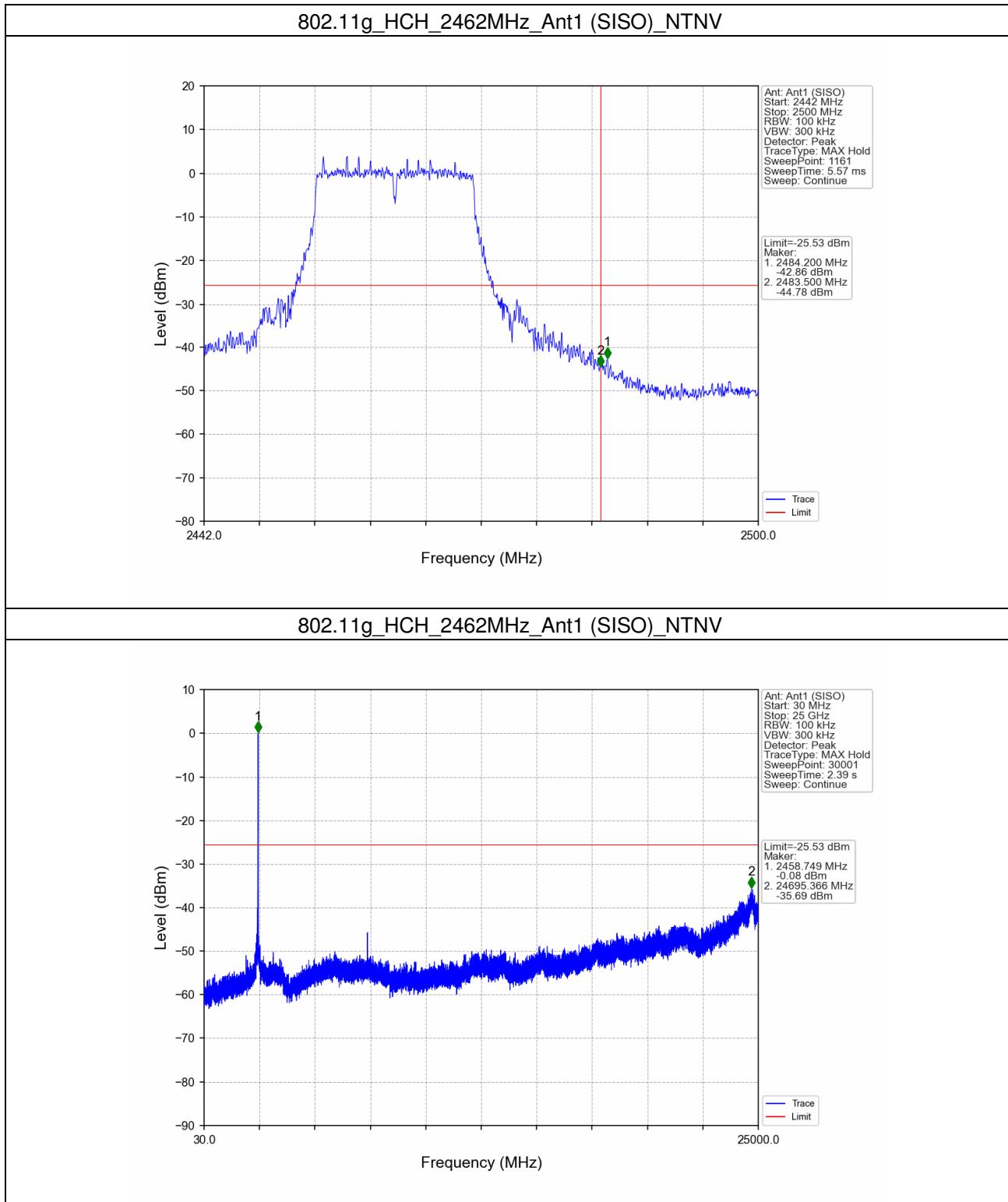
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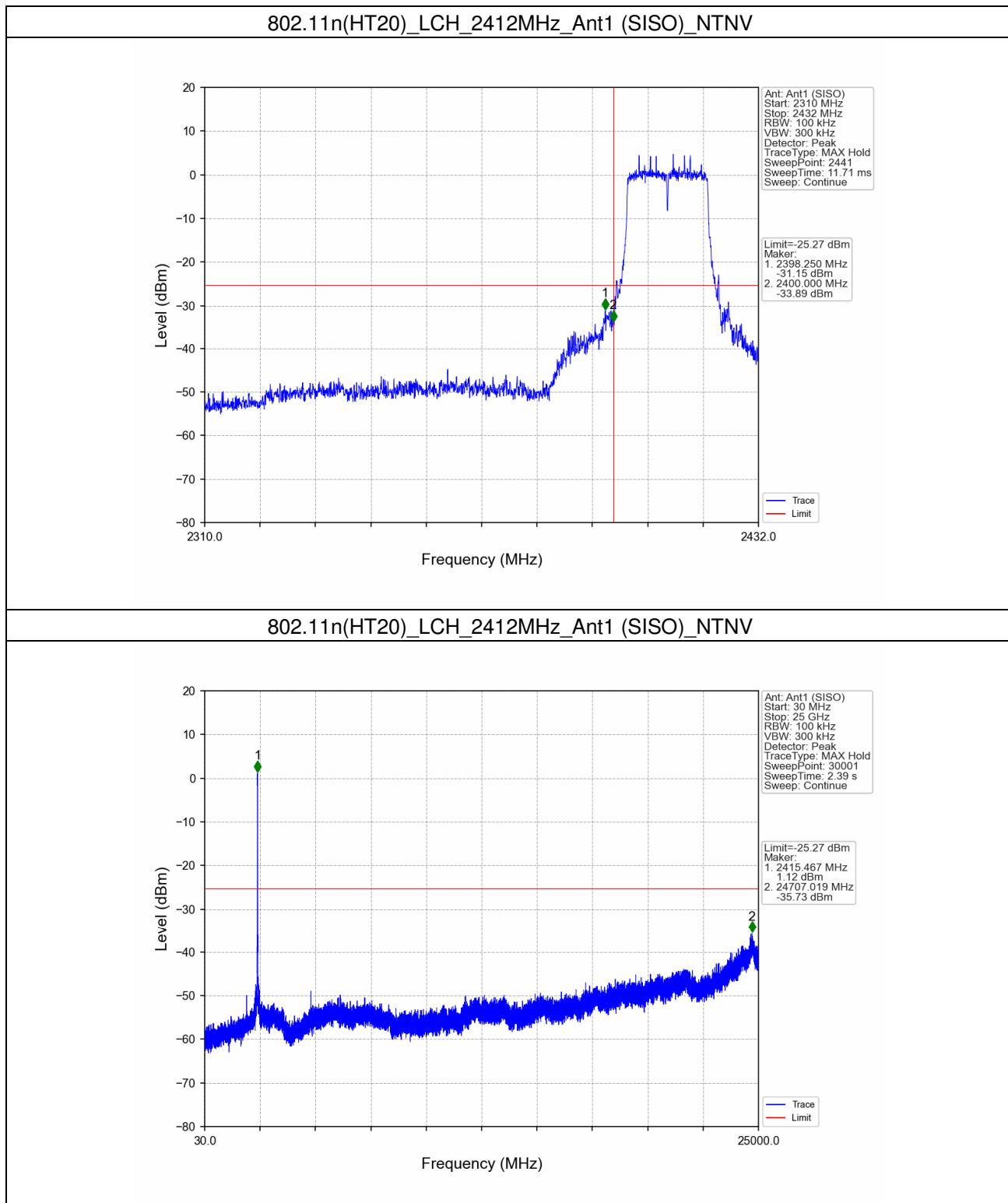
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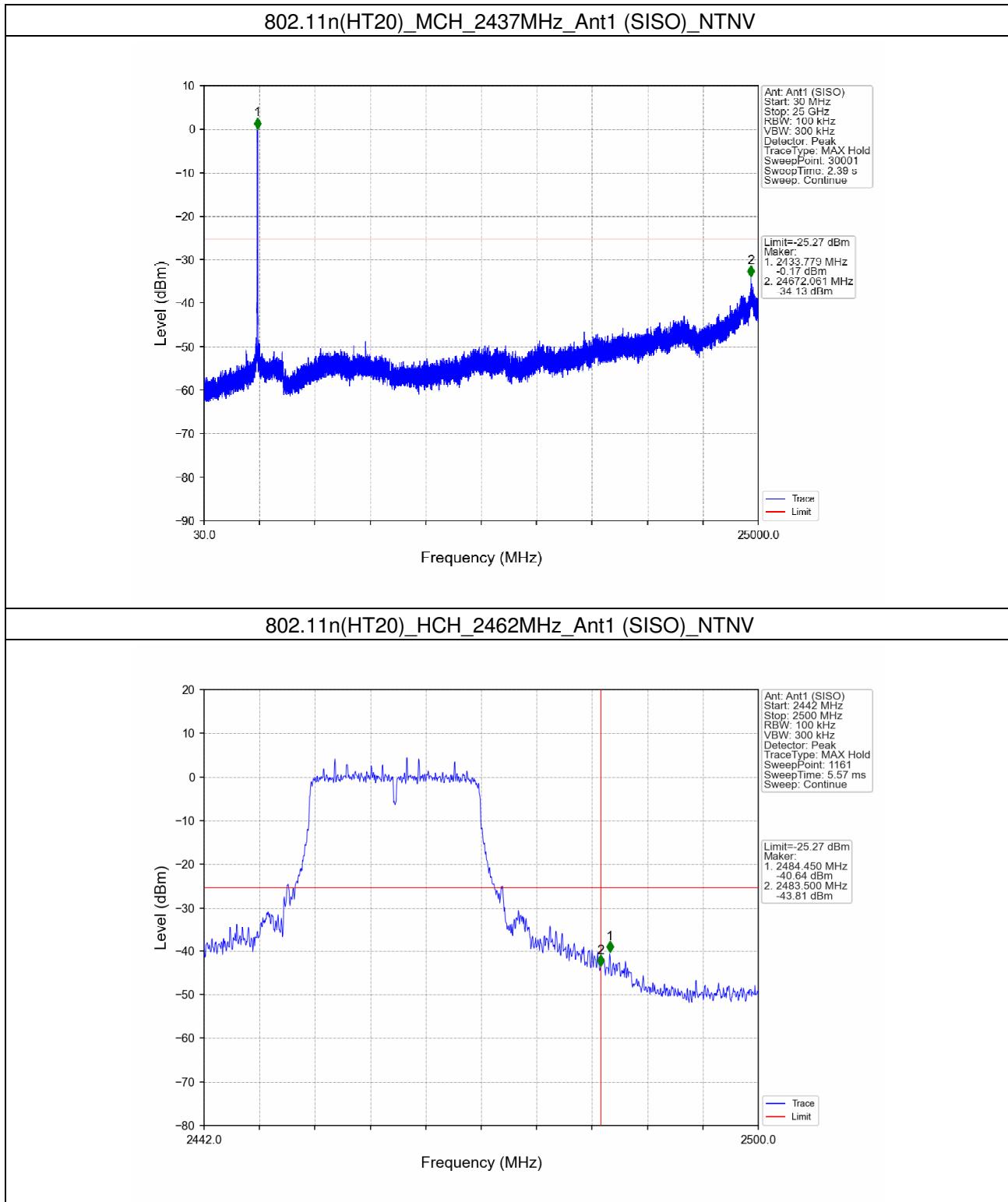
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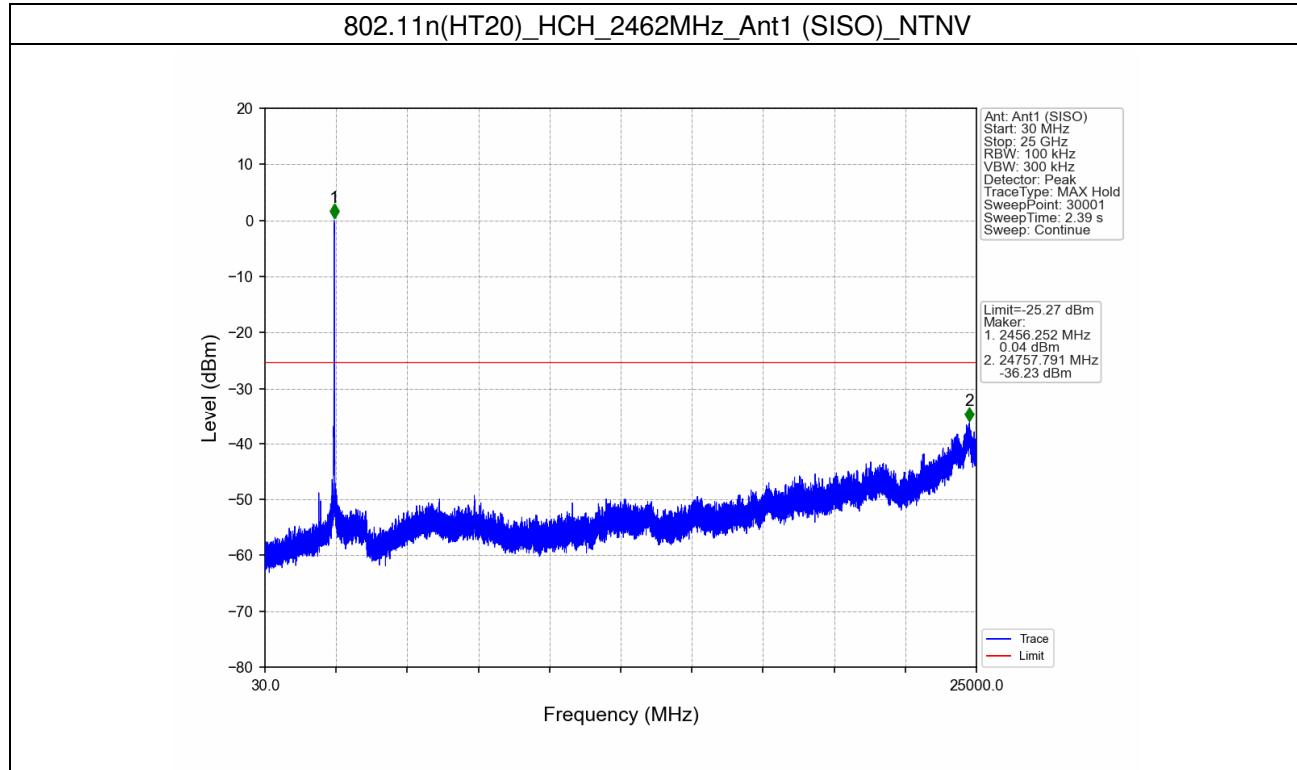
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