

# TEST REPORT

<b>Application No.:</b>	KSCR2506001384AT
<b>FCC ID:</b>	2AC8UA2444
<b>IC:</b>	21806-A2444
<b>Applicant:</b>	Anhui Huami Information Technology Co., Ltd.
<b>Address of Applicant:</b>	7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, Hefei City, China (Anhui) Pilot Free Trade Zone (230088)
<b>Manufacturer:</b>	Anhui Huami Information Technology Co., Ltd.
<b>Address of Manufacturer:</b>	7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, Hefei City, China (Anhui) Pilot Free Trade Zone (230088)
<b>Equipment Under Test (EUT):</b>	
<b>EUT Name:</b>	Smart Watch
<b>Model No.:</b>	A2444
<b>Trade Mark:</b>	AMAZFIT
<b>Standard(s) :</b>	47 CFR Part 15, Subpart C 15.247 RSS-247 Issue 3, August 2023 RSS-Gen Issue 5 Amendment 2 (February 2021)
<b>Date of Receipt:</b>	2025-06-25
<b>Date of Test:</b>	2025-06-30 to 2025-07-03
<b>Date of Issue:</b>	2025-07-14

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

<b>Revision Record</b>			
<b>Version</b>	<b>Description</b>	<b>Date</b>	<b>Remark</b>
00	Original	2025-07-14	/

Authorized for issue by:			
Tested By		Damon zhou	
		Damon_Zhou/Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	

## 2 Test Summary

<b>Radio Spectrum Technical Requirement</b>				
<b>Item</b>	<b>FCC Requirement</b>	<b>IC Requirement</b>	<b>Method</b>	<b>Result</b>
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Pass

N/A: Not applicable

<b>Radio Spectrum Matter Part</b>				
<b>Item</b>	<b>FCC Requirement</b>	<b>IC Requirement</b>	<b>Method</b>	<b>Result</b>
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2020) Section 11.8.1	Pass
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2020) Section 11.9.2	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2020) Section 11.10.2	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2020) Section 6.10.4	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2020) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2020) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2020) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

### 3 Contents

	Page
1 COVER PAGE .....	1
2 Test Summary .....	3
3 Contents.....	4
4 General Information.....	5
4.1 Details of E.U.T .....	5
4.2 Power level setting using in test:.....	5
4.3 Description of Support Units .....	5
4.4 Measurement Uncertainty .....	6
4.5 Test Location.....	7
4.6 Test Facility .....	7
4.7 Deviation from Standards.....	7
4.8 Abnormalities from Standard Conditions.....	7
5 Equipment List .....	8
6 Radio Spectrum Technical Requirement.....	9
6.1 Antenna Requirement .....	9
7 Radio Spectrum Matter Test Results.....	10
7.1 Radiated Emissions which fall in the restricted bands .....	10
7.2 Radiated Spurious Emissions Below 1GHz .....	25
7.3 Radiated Spurious Emissions Above 1GHz.....	29
7.4 Conducted Average Output Power .....	43
7.5 Minimum 6dB Bandwidth .....	45
7.6 Power Spectrum Density.....	46
7.7 Conducted Band Edges Measurement .....	47
7.8 Conducted Spurious Emissions .....	48
7.9 99% Bandwidth .....	49
8 Test Setup Photo .....	50
9 EUT Constructional Details (EUT Photos).....	50
10 Appendix .....	51

## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 3.87V by Rechargeable Li-ion Battery Battery model:PL662630 Rated Capacity:700mAh Rated Energy:2.709Wh Nominal Voltage:3.87V Limited Charger:4.45V
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20):11
Antenna Type:	IFA Antenna
Antenna Gain:	-5.55dBi (Provided by the manufacturer)
SN:	E1RK540051
Firmware Version:	V1.0

### 4.2 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	18	18	18
6	18	18	18
11	18	18	18

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/

#### 4.4 Measurement Uncertainty

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

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

#### 4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

#### 4.6 Test Facility

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

- **A2LA**

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

- **FCC**

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

- **ISED**

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

- **VCCI**

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

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None

## 5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
<b>Conducted Emission at Mains Terminals</b>						
1	EMI Test Receive	R&S	ESCI	KS301196	08/01/2024	07/31/2025
2	LISN	R&S	ENV216	KS301197	01/15/2025	01/14/2026
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/15/2025	01/14/2026
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	12/05/2024	12/04/2025
5	CE test Cable	Thermax	/	CZ301102	01/14/2025	01/13/2026
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
<b>RF Conducted Test</b>						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/01/2024	07/31/2025
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/01/2024	07/31/2025
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2025	01/14/2026
4	Signal Generator	R&S	SMBV100B	KSEM032	02/19/2025	02/18/2026
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/02/2024	08/01/2025
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/01/2024	07/31/2025
7	Signal Generator	Agilent	E8257C	KS301066	08/06/2024	08/05/2025
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/01/2024	07/31/2025
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	02/19/2025	02/18/2026
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/13/2024	08/12/2025
11	Switcher	TST	FY562	KUS2001M001-4	01/15/2025	01/14/2026
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/14/2025	01/13/2026
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KSES104904	08/26/2024	08/25/2025
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	02/26/2025	02/25/2026
15	Software	BST	TST-PASS	/	NCR	NCR
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/06/2024	08/05/2025
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	02/18/2025	02/17/2026
3	Signal Generator	Agilent	E8257C	KS301066	08/06/2024	08/05/2025
4	Loop Antenna (9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	03/01/2025	02/28/2027
5	Bilog Antenna (30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	06/28/2025	06/27/2026
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2026
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	01/15/2025	01/14/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	01/15/2025	01/14/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	08/02/2024	08/01/2025
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	08/12/2024	08/11/2025
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	08/23/2024	08/22/2025
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	02/26/2025	02/25/2026
14	Software	Faratronic	EZ_EMCA-3A1	/	NCR	NCR
15	Software	ESE	E3_V 6.111221a	/	NCR	NCR

## 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 IFA Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is -5.55 dBi.

Antenna location: Refer to internal photo.

## 7 Radio Spectrum Matter Test Results

### 7.1 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 (2020) 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.

#### 7.1.1 E.U.T. Operation

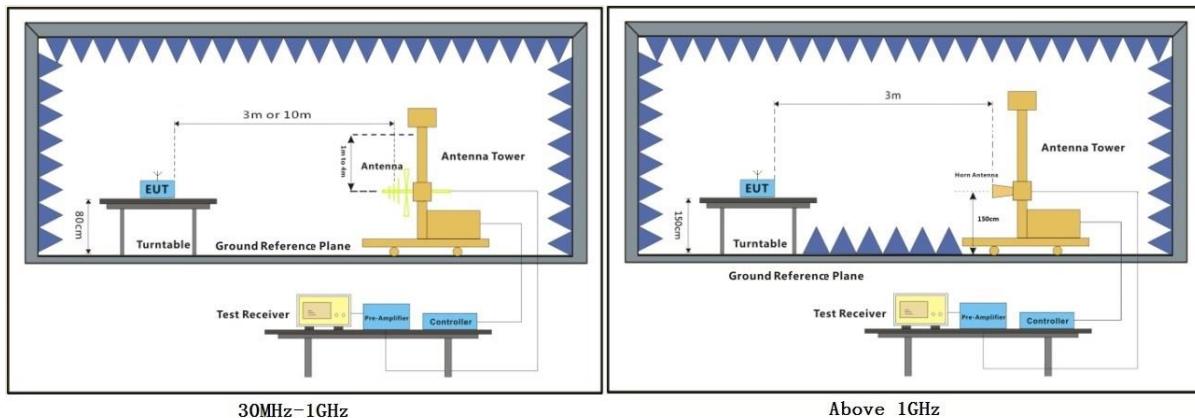
Operating Environment:

Temperature: 20.5 °C      Humidity: 50.5 % RH      Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

### 7.1.3 Test Setup Diagram



#### 7.1.4 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.

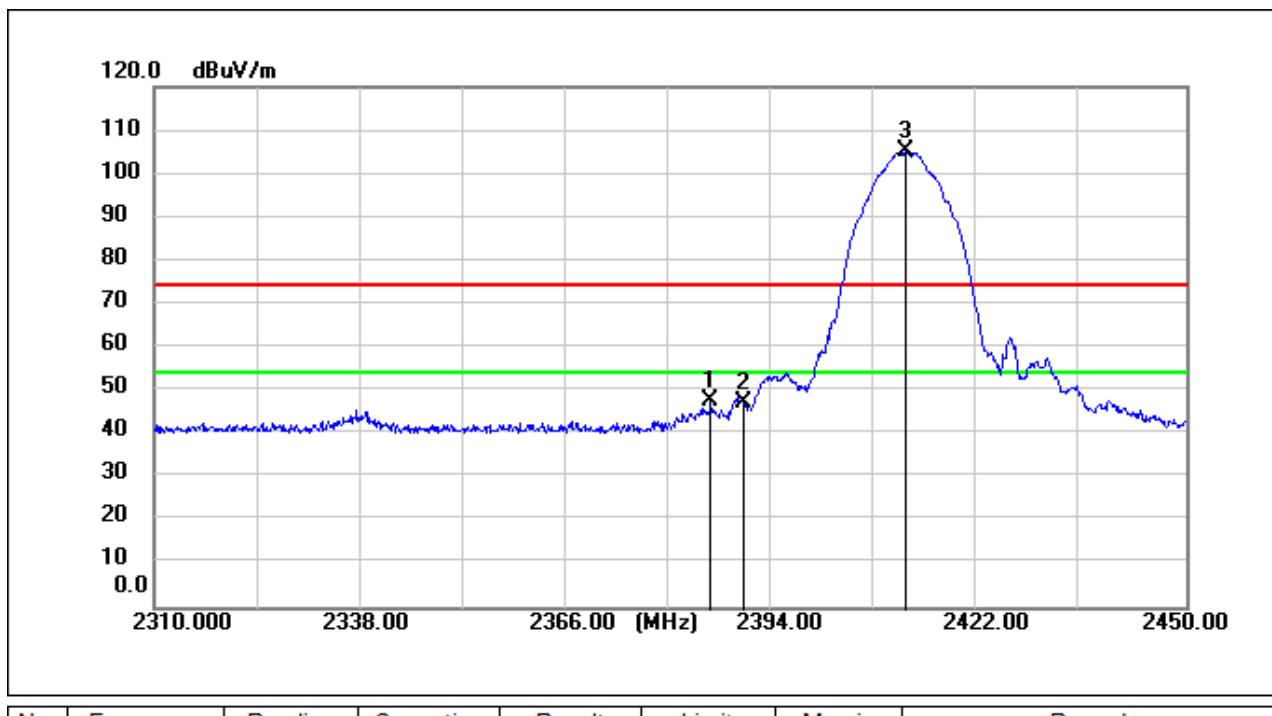
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

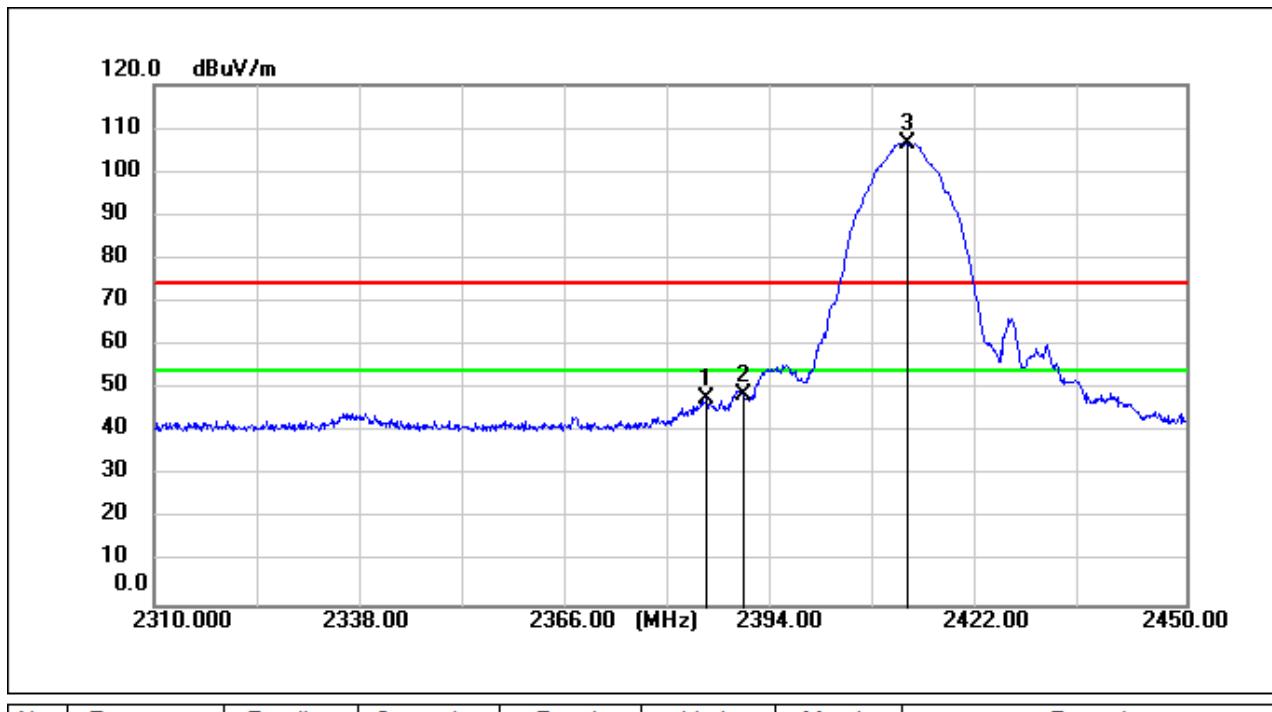
Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.

## 11b\_TX\_CH\_01\_Horizontal



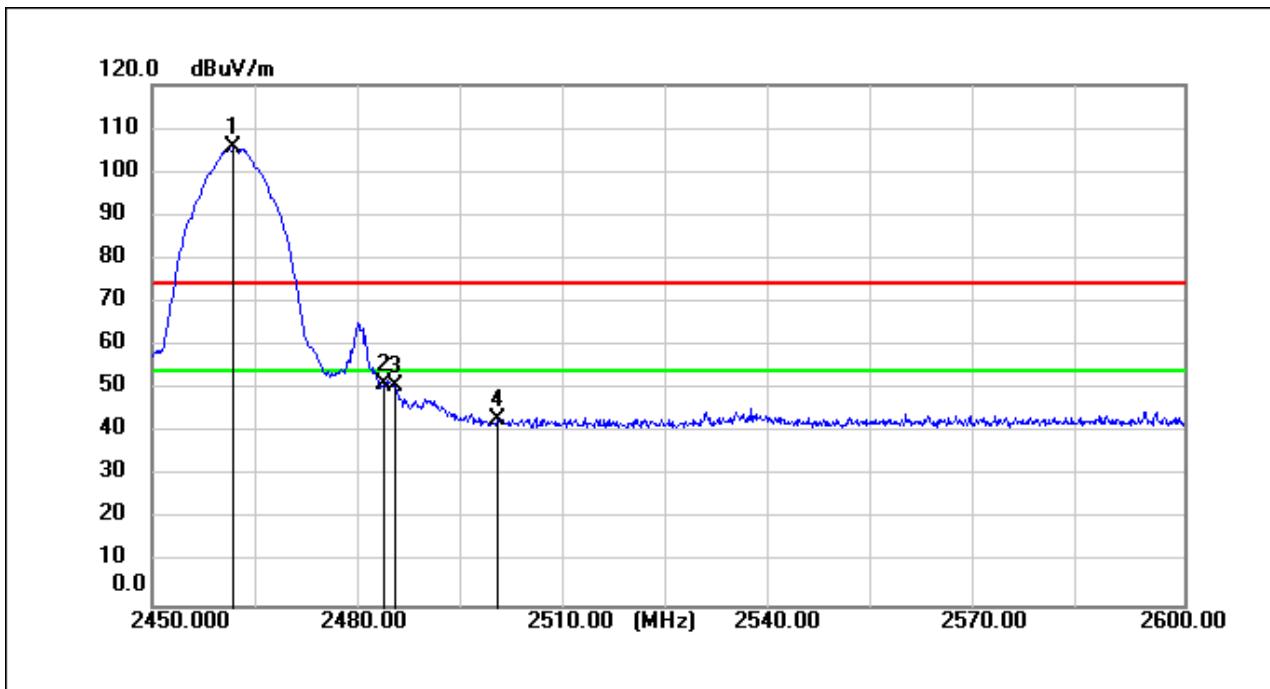
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.460	48.62	-0.81	47.81	74.00	-26.19	peak
2	2390.000	48.23	-0.79	47.44	74.00	-26.56	peak
3	2412.060	105.78	-0.68	105.10	74.00	31.10	peak

11b\_TX\_CH\_01\_Vertical



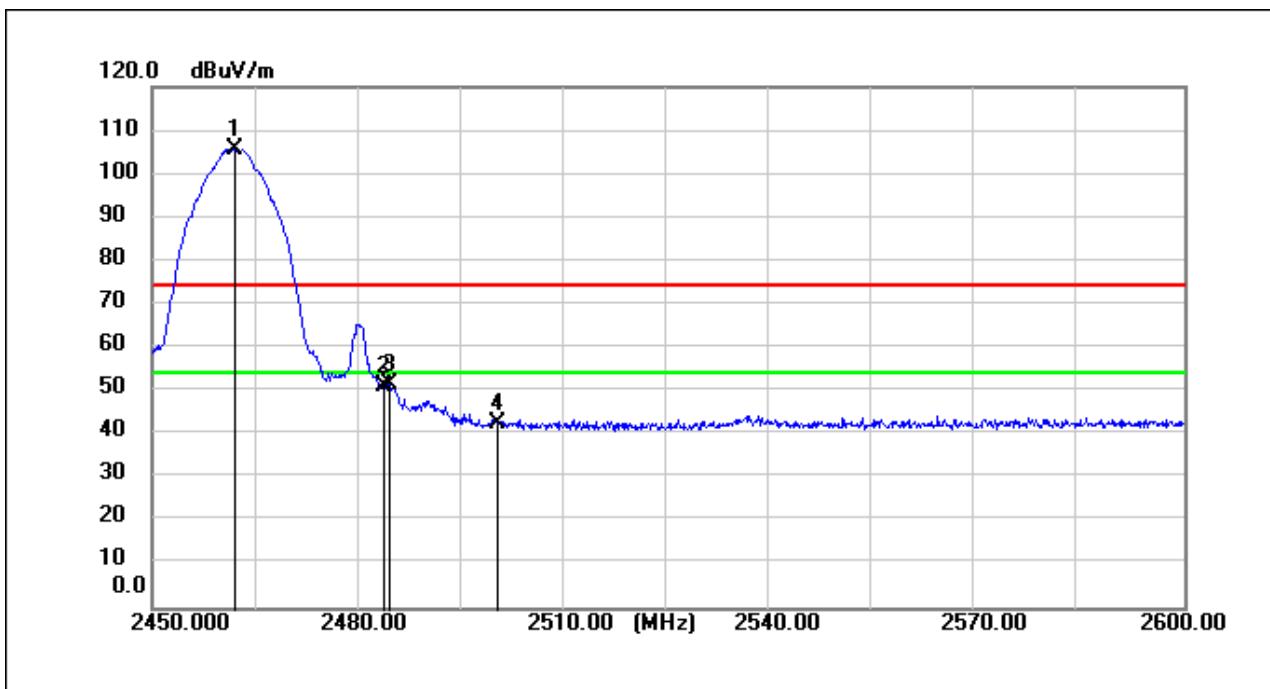
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.040	48.56	-0.81	47.75	74.00	-26.25	peak
2	2390.000	49.58	-0.79	48.79	74.00	-25.21	peak
3	2412.200	107.32	-0.68	106.64	74.00	32.64	peak

## 11b\_TX\_CH\_11\_Horizontal



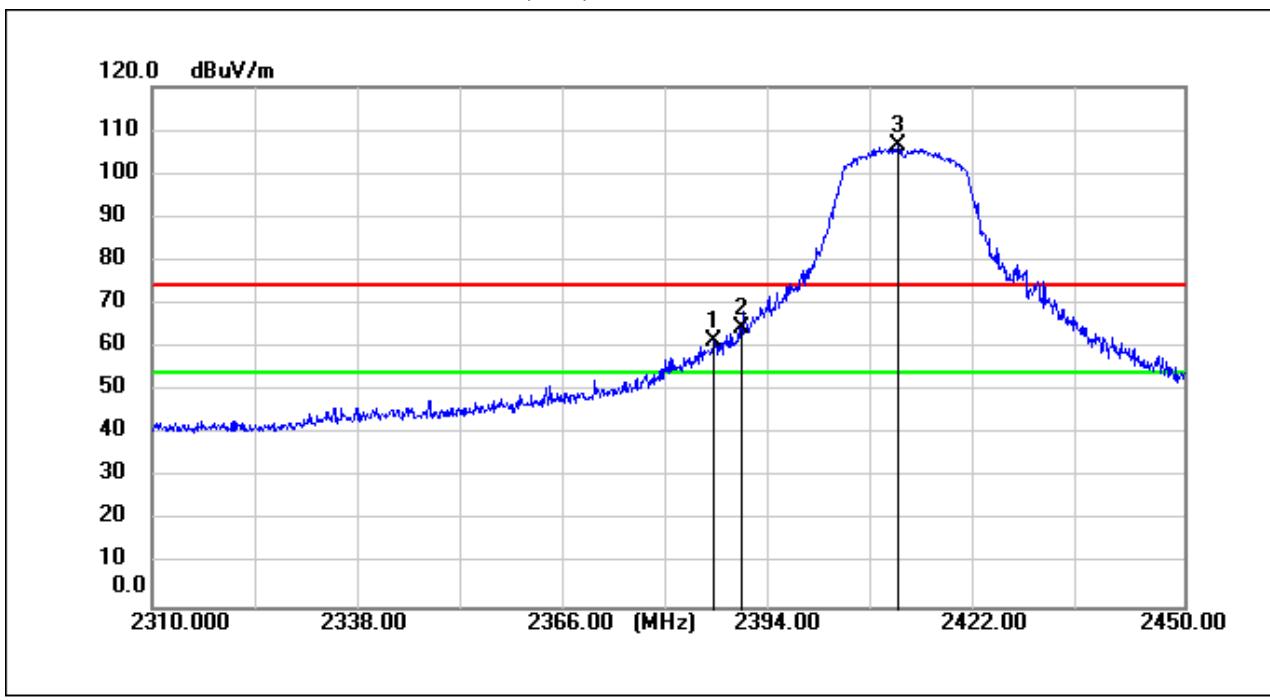
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.850	105.88	-0.43	105.45	74.00	31.45	peak
2	2483.500	51.39	-0.33	51.06	74.00	-22.94	peak
3	2485.250	51.15	-0.31	50.84	74.00	-23.16	peak
4	2500.000	43.36	-0.24	43.12	74.00	-30.88	peak

11b\_TX\_CH\_01\_Vertical



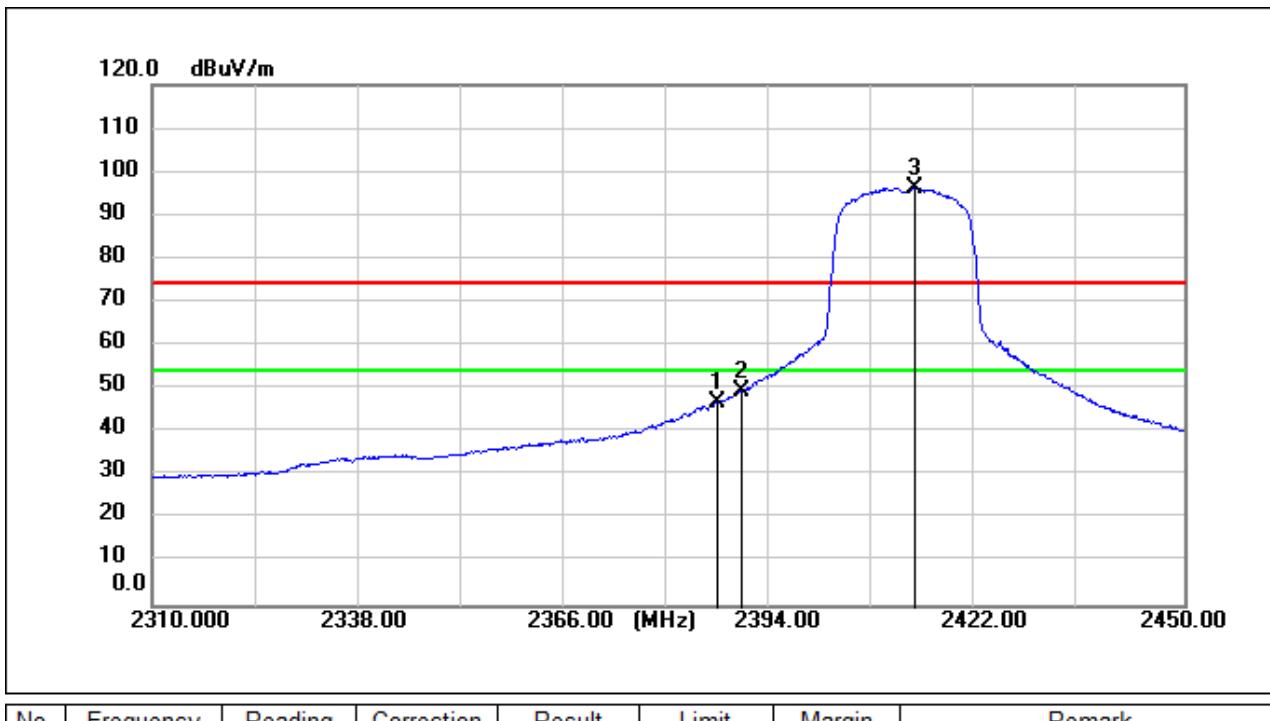
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.150	106.24	-0.43	105.81	74.00	31.81	peak
2	2483.500	51.40	-0.33	51.07	74.00	-22.93	peak
3	2484.650	51.79	-0.32	51.47	74.00	-22.53	peak
4	2500.000	42.70	-0.24	42.46	74.00	-31.54	peak

## 11n\_HT(20M)\_TX\_CH\_1\_Horizontal



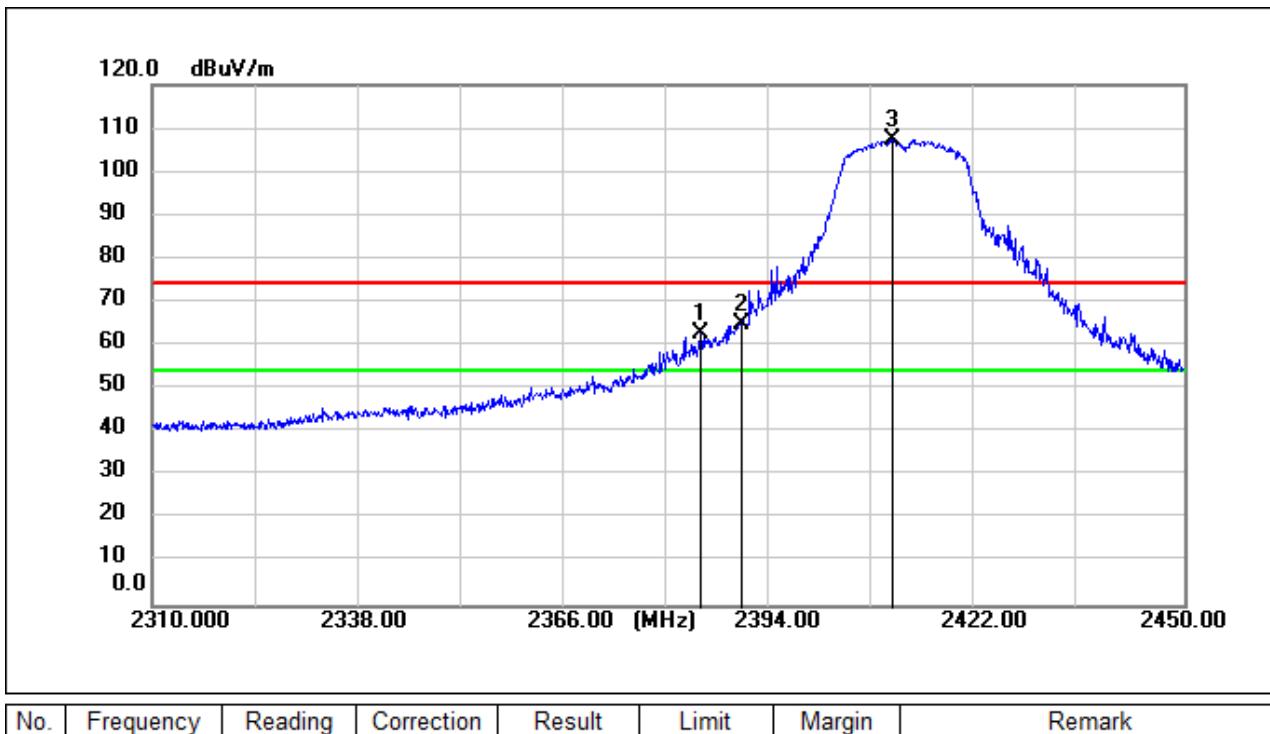
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.300	62.46	-0.80	61.66	74.00	-12.34	peak
2	2390.000	65.16	-0.79	64.37	74.00	-9.63	peak
3	2411.220	107.10	-0.68	106.42	74.00	32.42	peak

11n\_HT(20M)\_TX\_CH\_1\_Horizontal



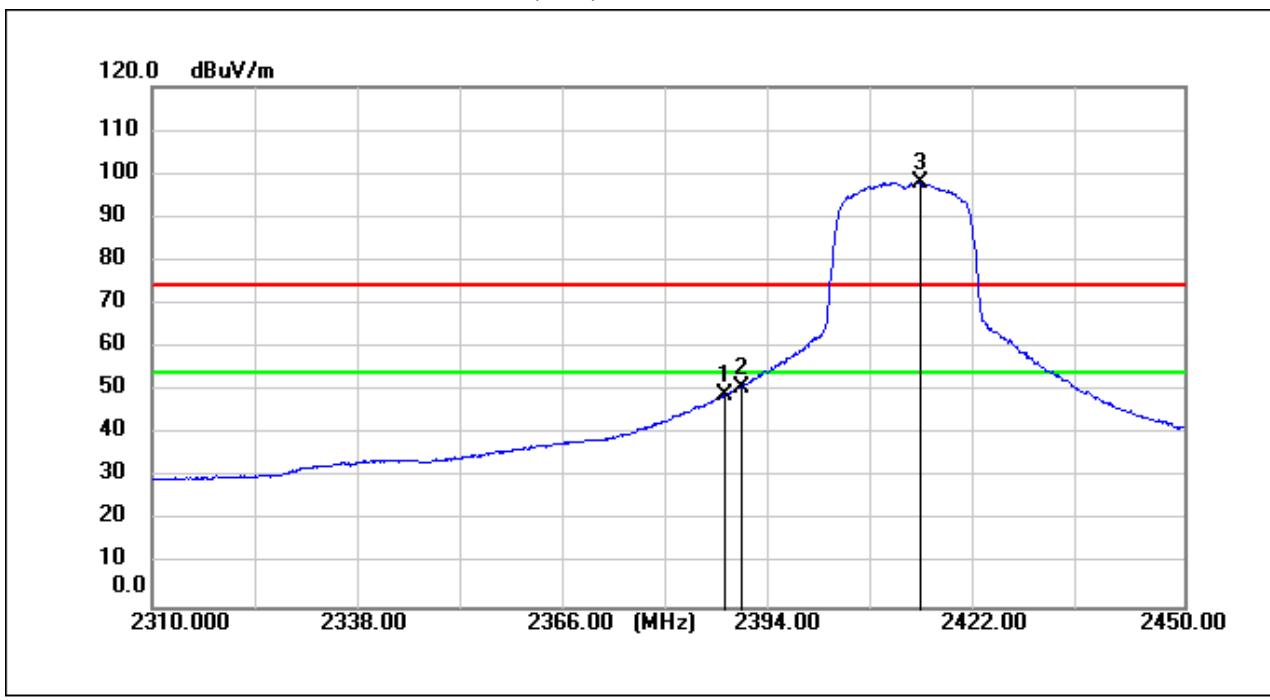
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.580	47.70	-0.80	46.90	54.00	-7.10	AVG
2	2390.000	50.33	-0.79	49.54	54.00	-4.46	AVG
3	2413.460	96.98	-0.68	96.30	54.00	42.30	AVG

## 11n\_HT(20M)\_TX\_CH\_01\_Vertical



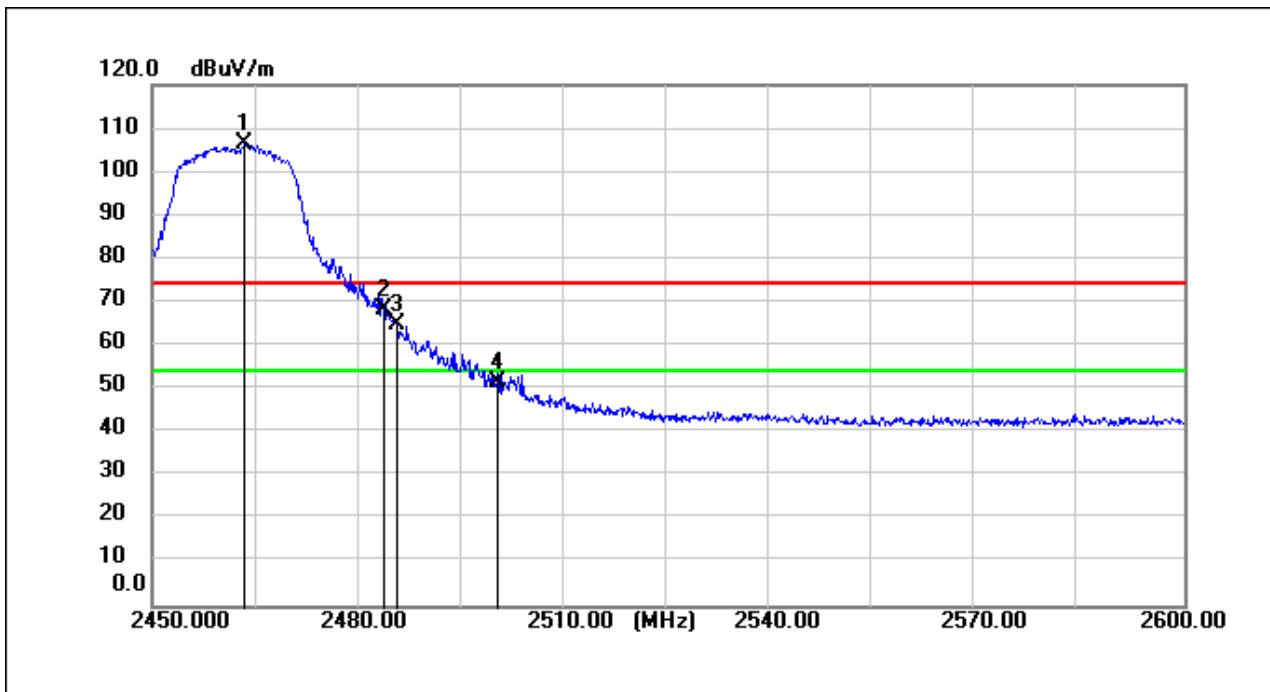
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.480	63.63	-0.82	62.81	74.00	-11.19	peak
2	2390.000	65.84	-0.79	65.05	74.00	-8.95	peak
3	2410.380	108.09	-0.69	107.40	74.00	33.40	peak

## 11n\_HT(20M)\_TX\_CH\_01\_Vertical



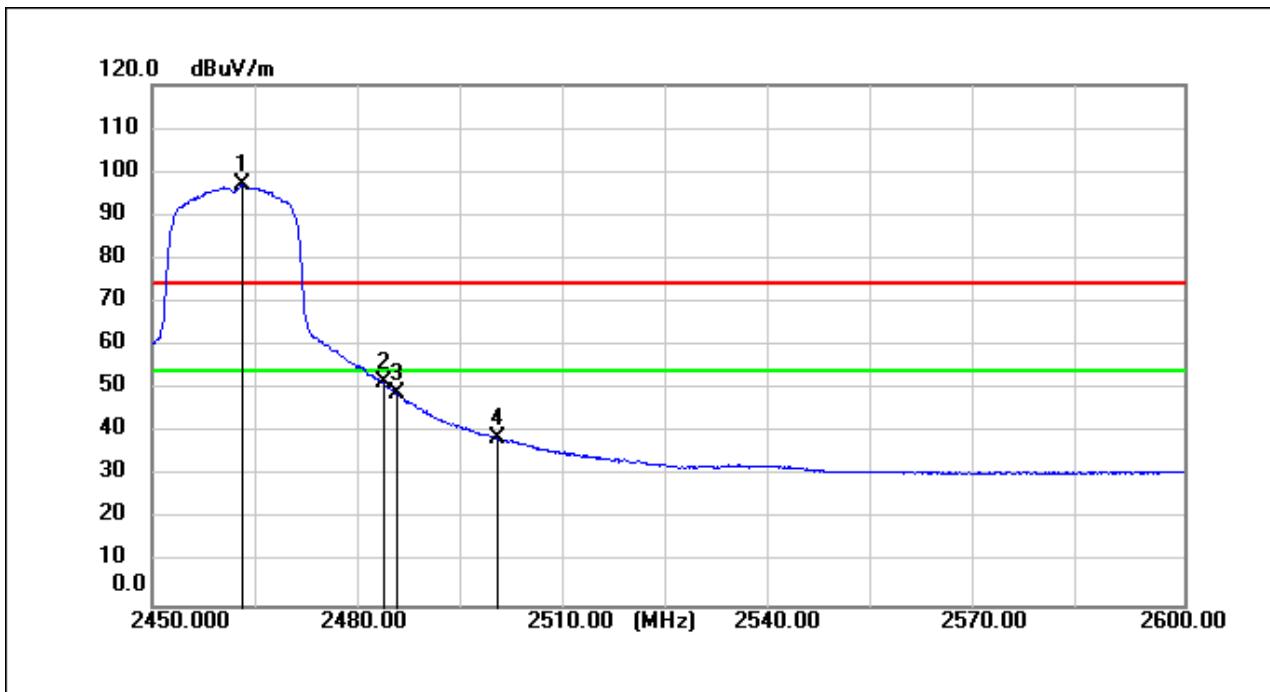
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.700	49.93	-0.80	49.13	54.00	-4.87	AVG
2	2390.000	51.69	-0.79	50.90	54.00	-3.10	AVG
3	2414.160	98.66	-0.67	97.99	54.00	43.99	AVG

11n\_HT(20M)\_TX\_CH\_11\_Horizontal



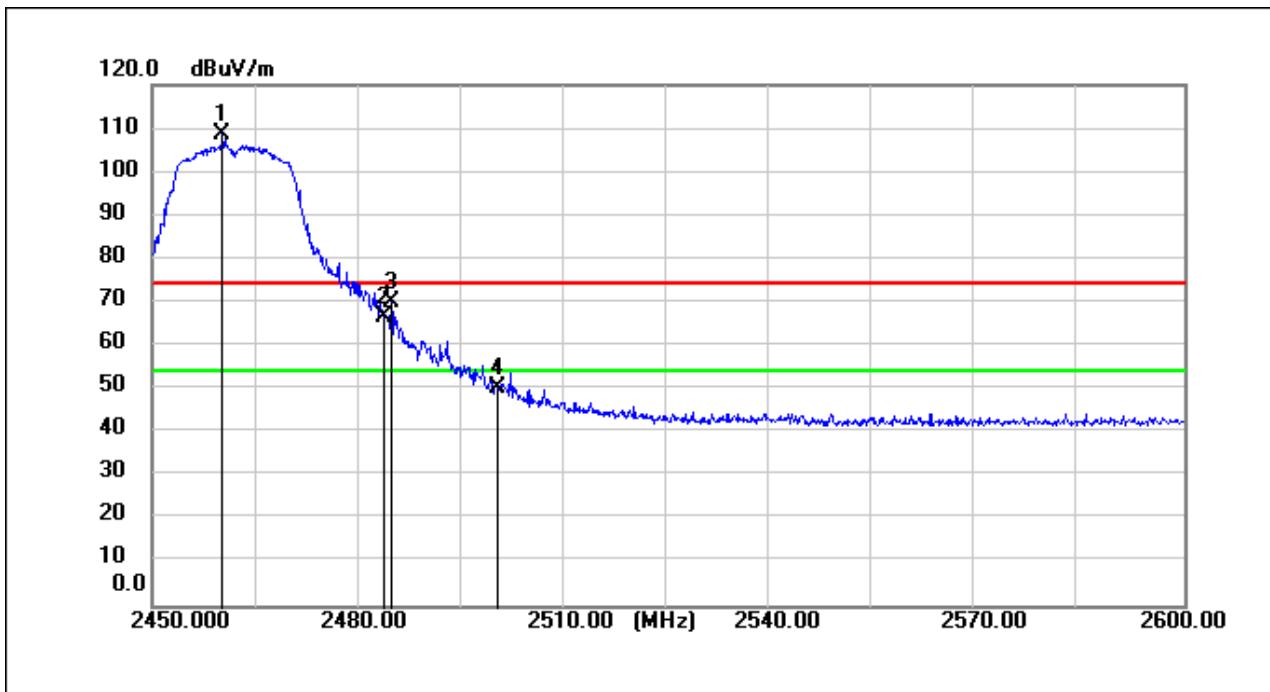
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.500	106.73	-0.43	106.30	74.00	32.30	peak
2	2483.500	68.68	-0.33	68.35	74.00	-5.65	peak
3	2485.550	65.04	-0.31	64.73	74.00	-9.27	peak
4	2500.000	51.82	-0.24	51.58	74.00	-22.42	peak

11n\_HT(20M)\_TX\_CH\_11\_Horizontal



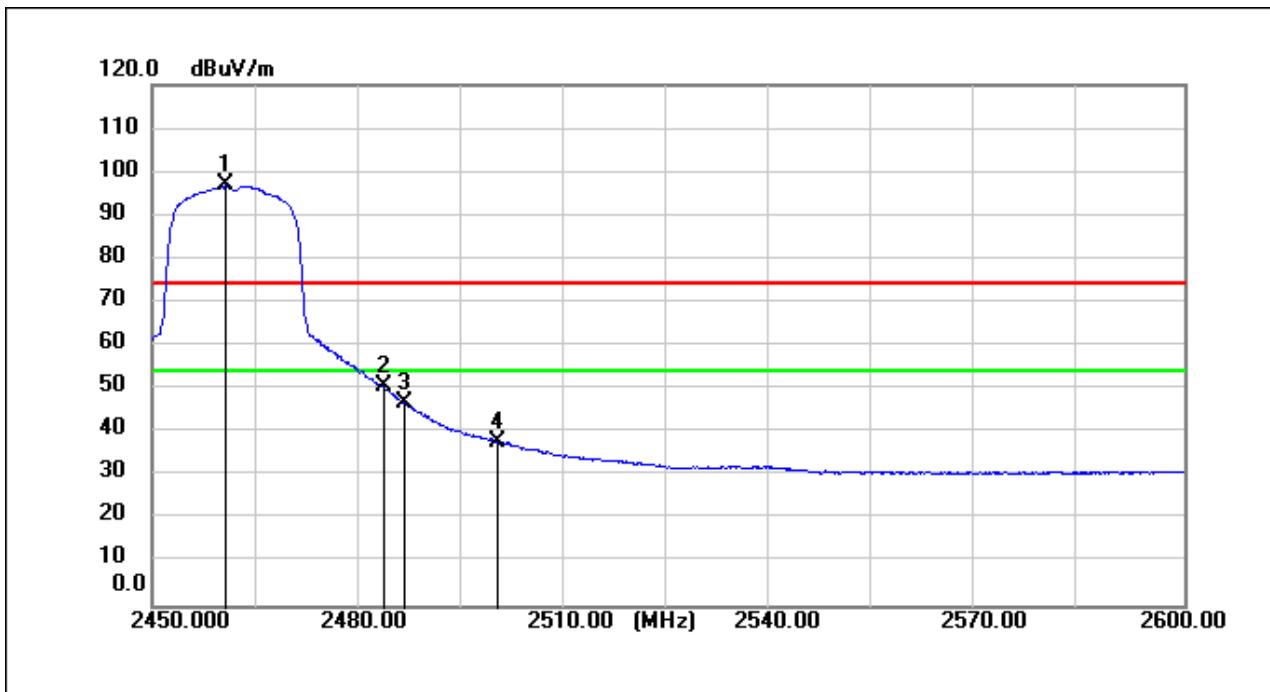
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.050	97.35	-0.43	96.92	54.00	42.92	AVG
2	2483.500	51.86	-0.33	51.53	54.00	-2.47	AVG
3	2485.550	49.55	-0.31	49.24	54.00	-4.76	AVG
4	2500.000	38.92	-0.24	38.68	54.00	-15.32	AVG

11n\_HT(20M)\_TX\_CH\_11\_Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.200	108.98	-0.44	108.54	74.00	34.54	peak
2	2483.500	66.96	-0.33	66.63	74.00	-7.37	peak
3	2484.800	70.56	-0.32	70.24	74.00	-3.76	peak
4	2500.000	50.59	-0.24	50.35	74.00	-23.65	peak

## 11n\_HT(20M)\_TX\_CH\_11\_Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.800	97.36	-0.44	96.92	54.00	42.92	AVG
2	2483.500	51.02	-0.33	50.69	54.00	-3.31	AVG
3	2486.750	47.12	-0.30	46.82	54.00	-7.18	AVG
4	2500.000	38.29	-0.24	38.05	54.00	-15.95	AVG

## 7.2 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2020) 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

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

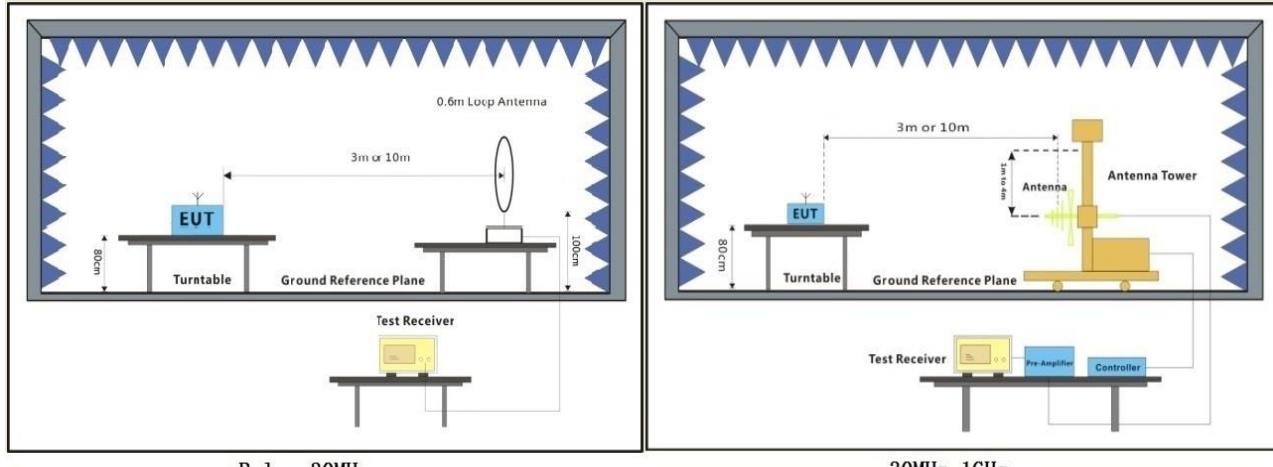
Humidity: 48.6 % RH

Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

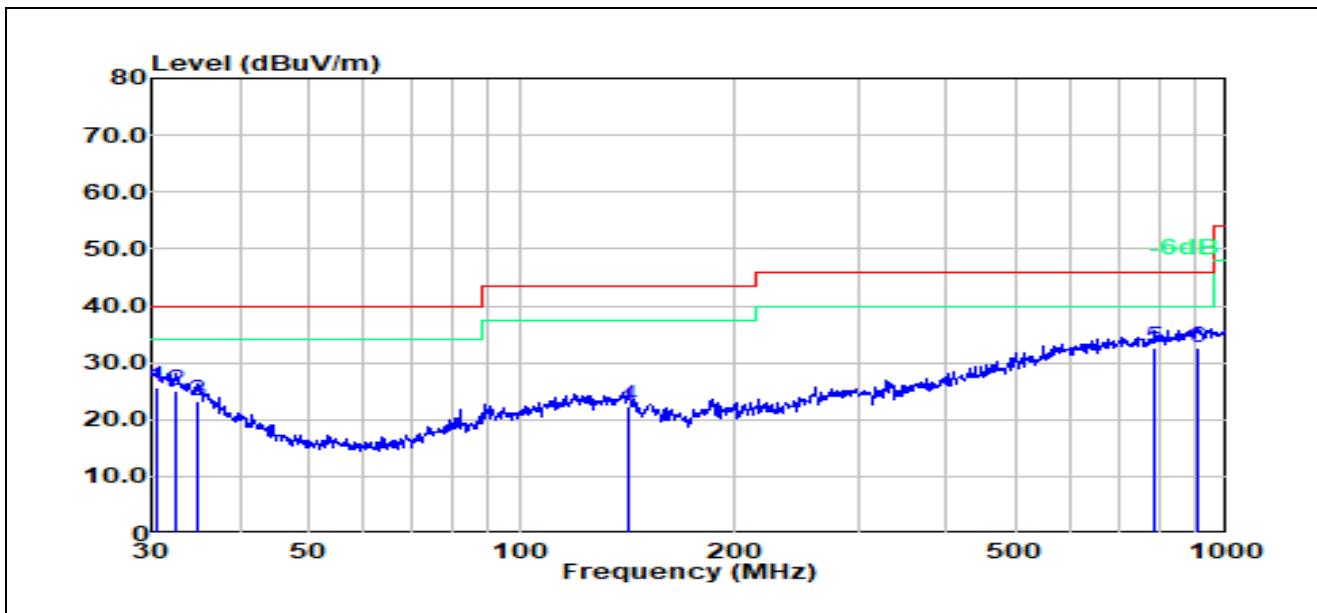
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test Mode: 04; Polarity: Horizontal

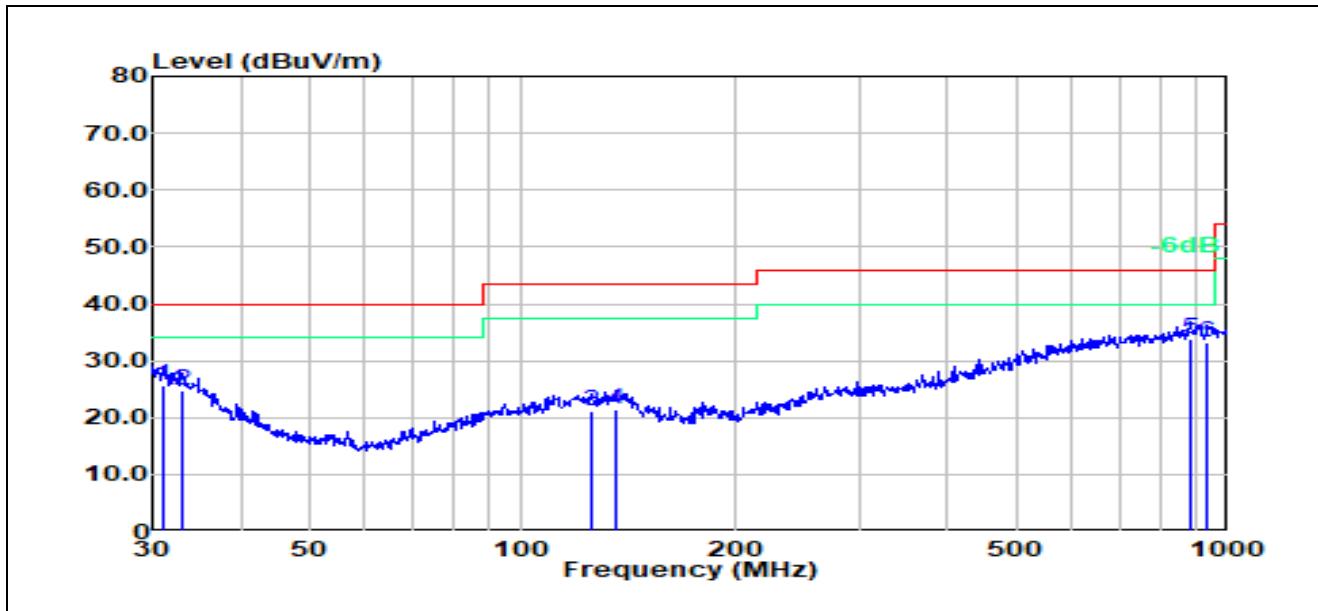
## Test Data :



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.4240	0.79	24.78	25.57	40.00	-14.43	100	100	QP
2	32.5200	1.85	23.24	25.09	40.00	-14.91	200	313	QP
3	35.0050	1.47	21.66	23.13	40.00	-16.87	200	341	QP
4	141.8260	2.65	19.57	22.22	43.50	-21.28	100	319	QP
5	790.6190	2.21	30.30	32.51	46.00	-13.49	200	72	QP
6	906.4820	1.46	31.27	32.73	46.00	-13.27	100	360	QP

Test Mode: 04; Polarity: Vertical

**Test Data :**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9620	1.42	24.36	25.78	40.00	-14.22	100	45	QP
2	33.0950	1.69	23.08	24.77	40.00	-15.23	100	67	QP
3	125.8860	1.02	20.23	21.25	43.50	-22.25	100	159	QP
4	135.5060	1.54	19.92	21.46	43.50	-22.04	100	238	QP
5	881.4070	2.31	31.38	33.69	46.00	-12.31	100	331	QP
6	932.2720	2.02	31.27	33.29	46.00	-12.71	100	247	QP

### 7.3 Radiated Spurious Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3M

Limit:

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

#### 7.3.1 E.U.T. Operation

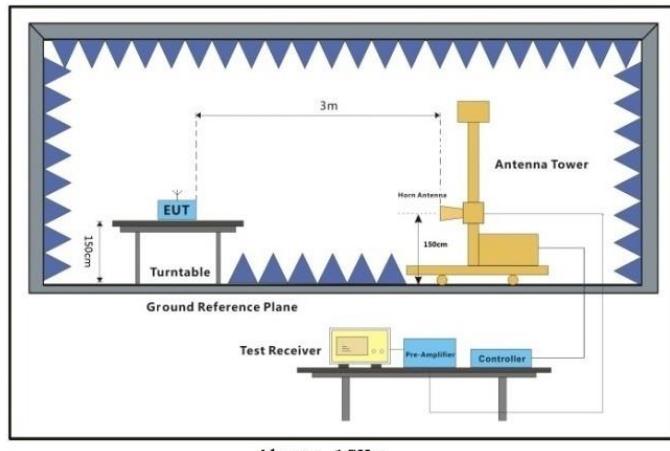
Operating Environment:

Temperature: 23.8 °C      Humidity: 42.6 % RH      Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

#### 7.3.3 Test Setup Diagram



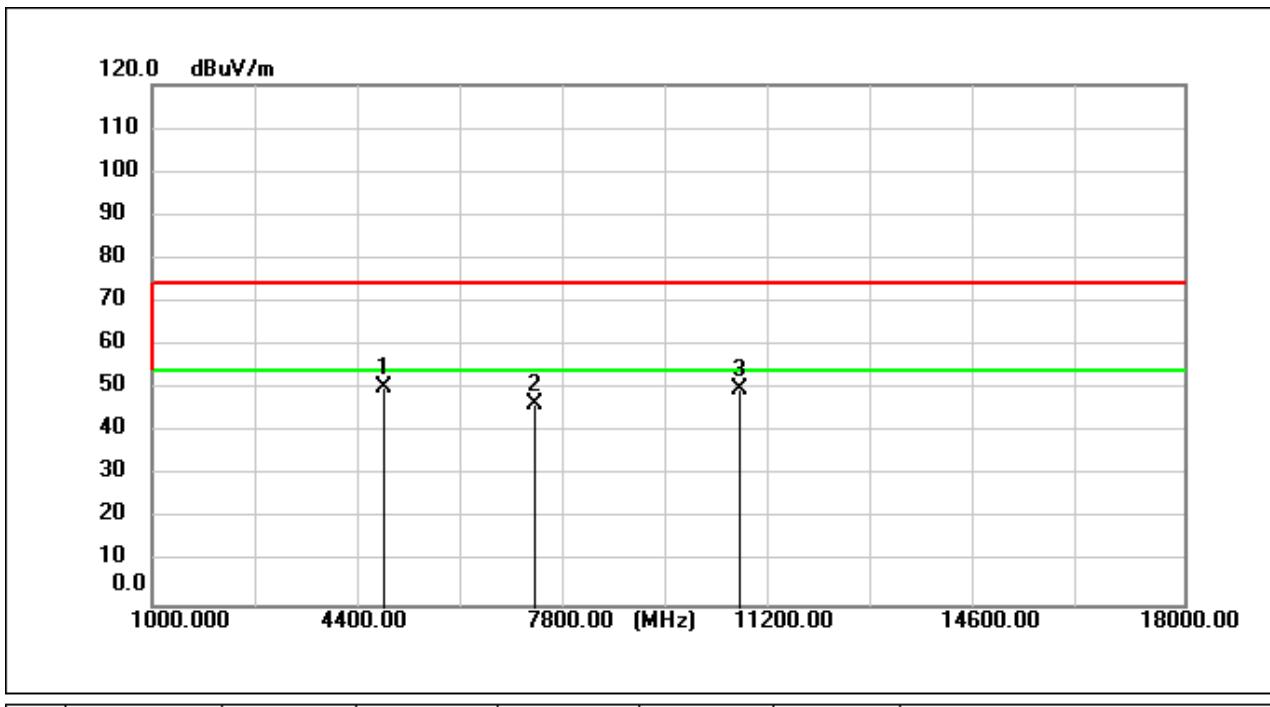
### 7.3.4 Measurement Procedure and Data

- 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:

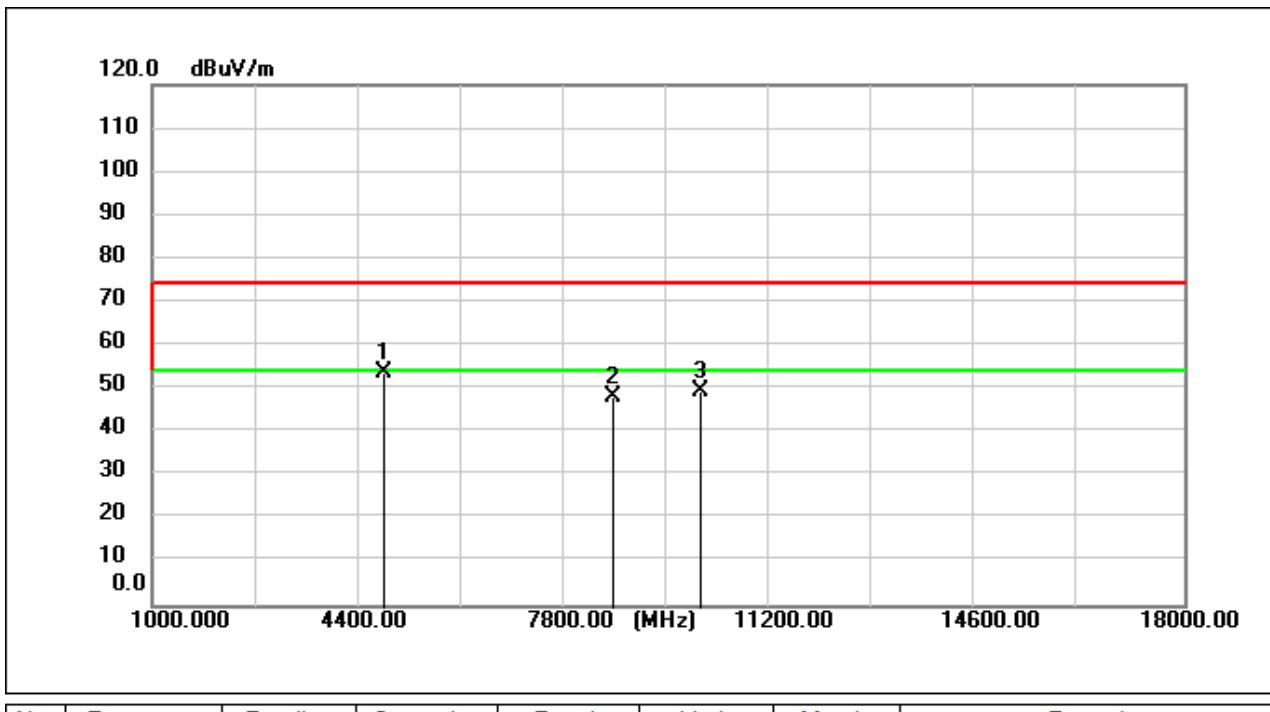
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.

## 11b\_TX\_CH\_01\_Horizontal



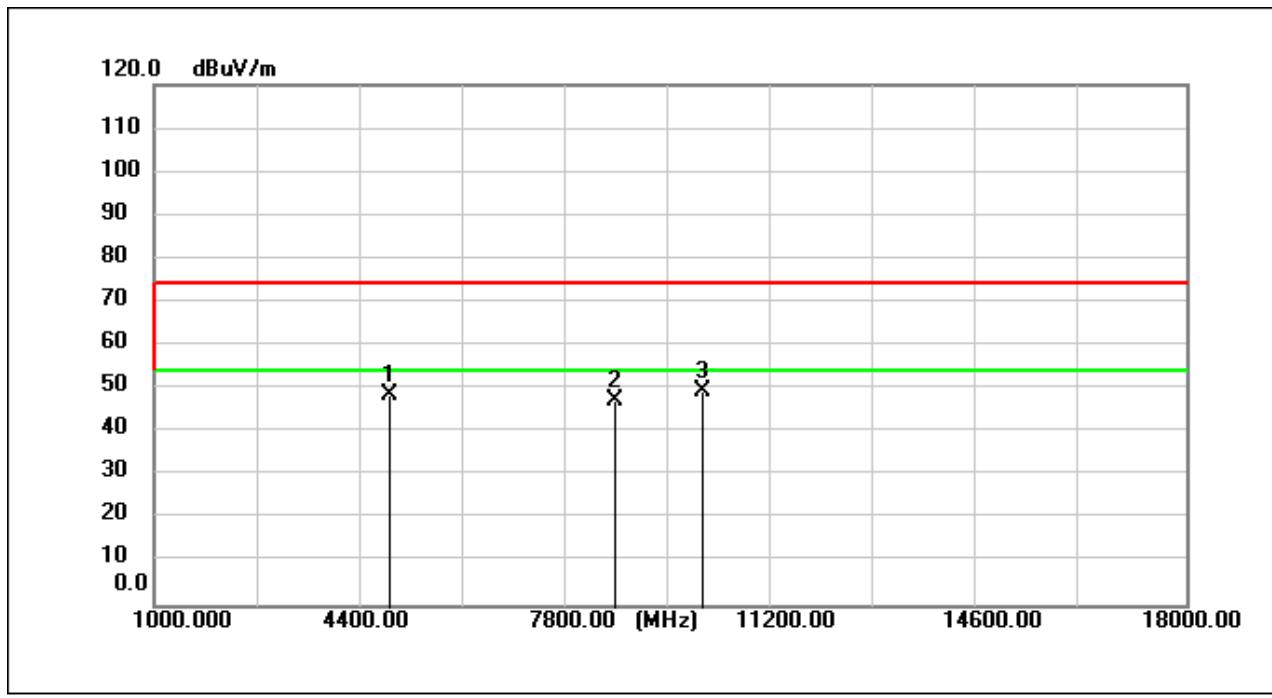
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4823.300	67.19	-16.98	50.21	74.00	-23.79	peak
2	7291.700	56.64	-10.02	46.62	74.00	-27.38	peak
3	10674.700	55.95	-6.14	49.81	74.00	-24.19	peak

## 11b\_TX\_CH\_01\_Vertical



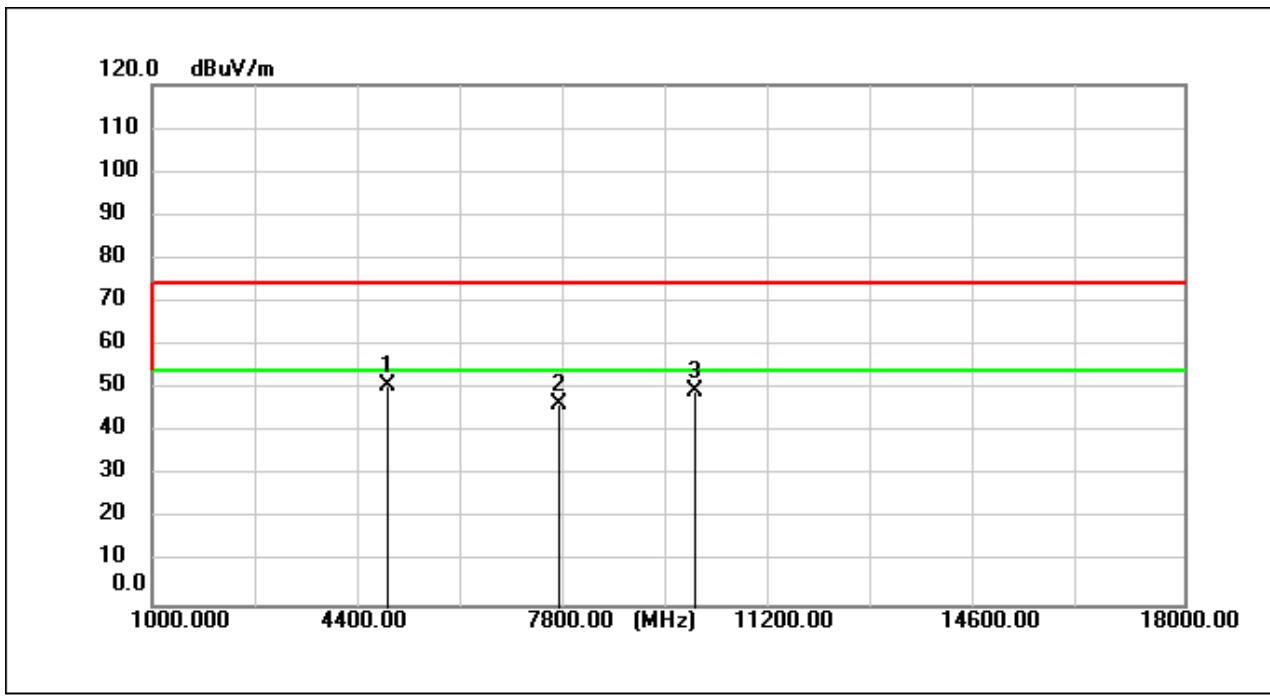
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.150	70.75	-16.97	53.78	74.00	-20.22	peak
2	8569.250	56.77	-8.45	48.32	74.00	-25.68	peak
3	10028.700	55.28	-5.60	49.68	74.00	-24.32	peak

## 11b\_TX\_CH\_06\_Horizontal



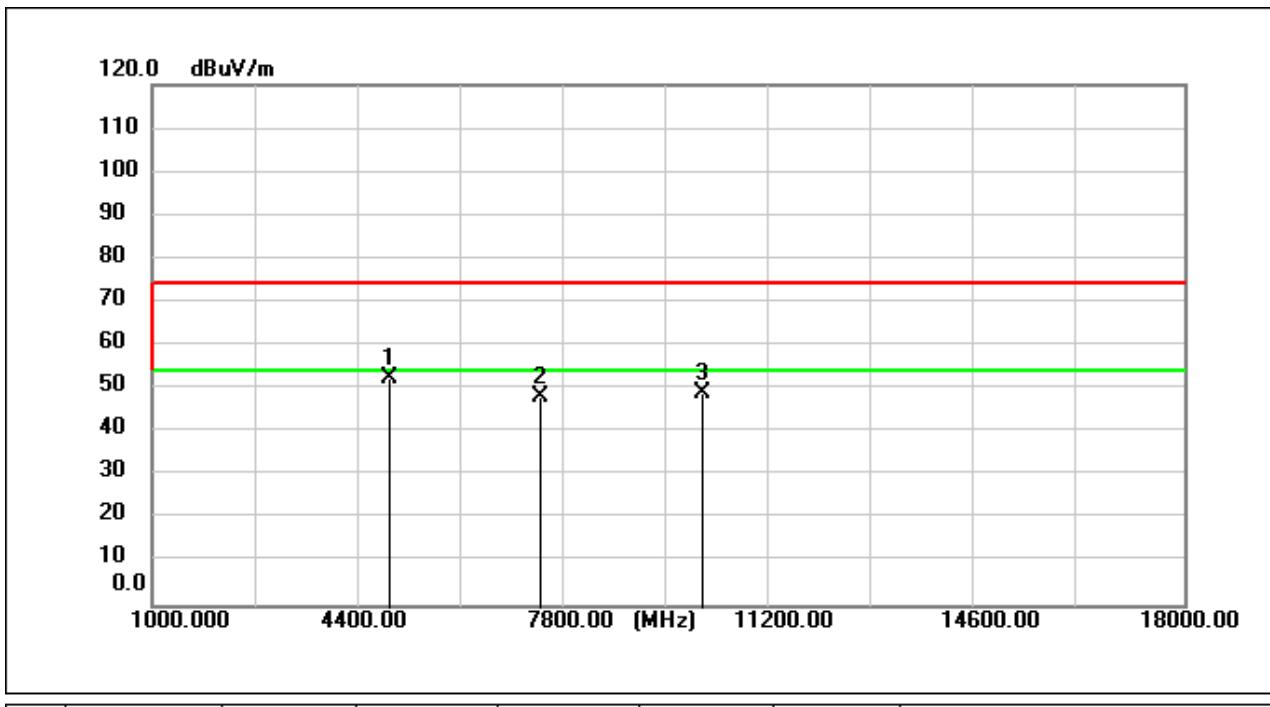
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4873.450	65.58	-16.88	48.70	74.00	-25.30	peak
2	8589.650	55.92	-8.42	47.50	74.00	-26.50	peak
3	10033.800	55.16	-5.60	49.56	74.00	-24.44	peak

## 11b\_TX\_CH\_06\_Vertical



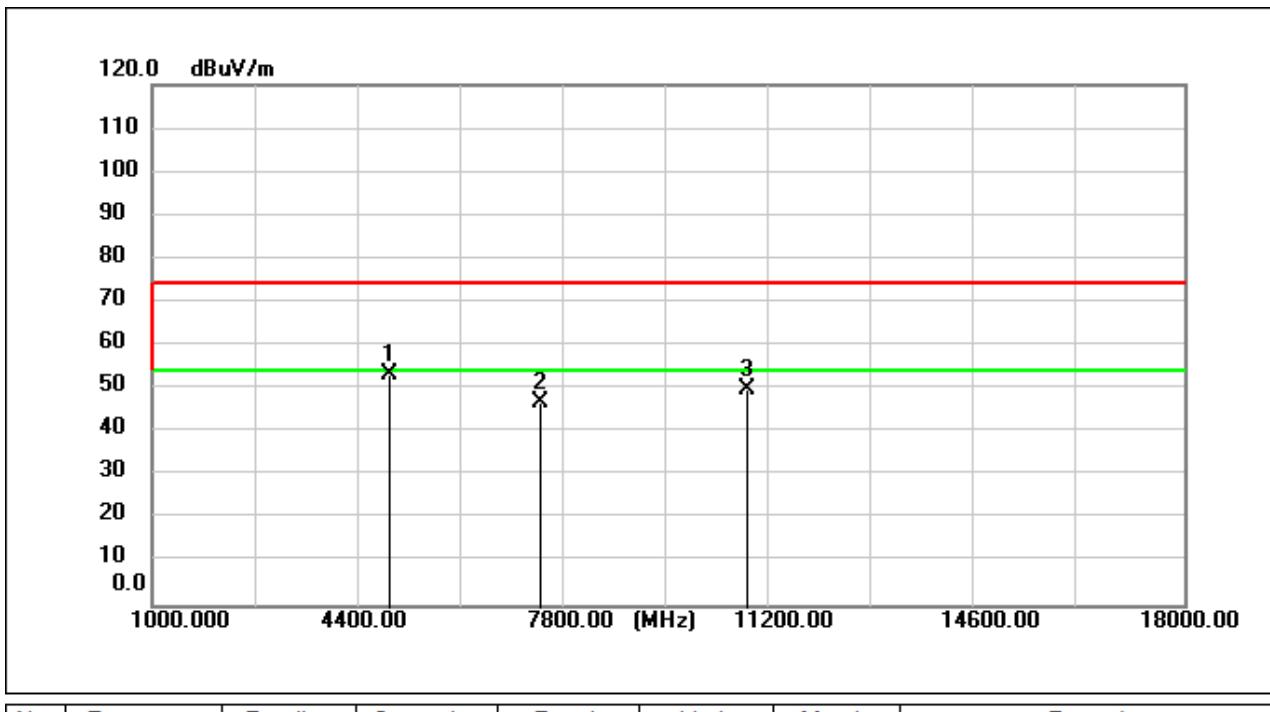
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4873.450	67.59	-16.88	50.71	74.00	-23.29	peak
2	7691.200	56.06	-9.66	46.40	74.00	-27.60	peak
3	9945.400	55.24	-5.60	49.64	74.00	-24.36	peak

## 11b\_TX\_CH\_11\_Horizontal



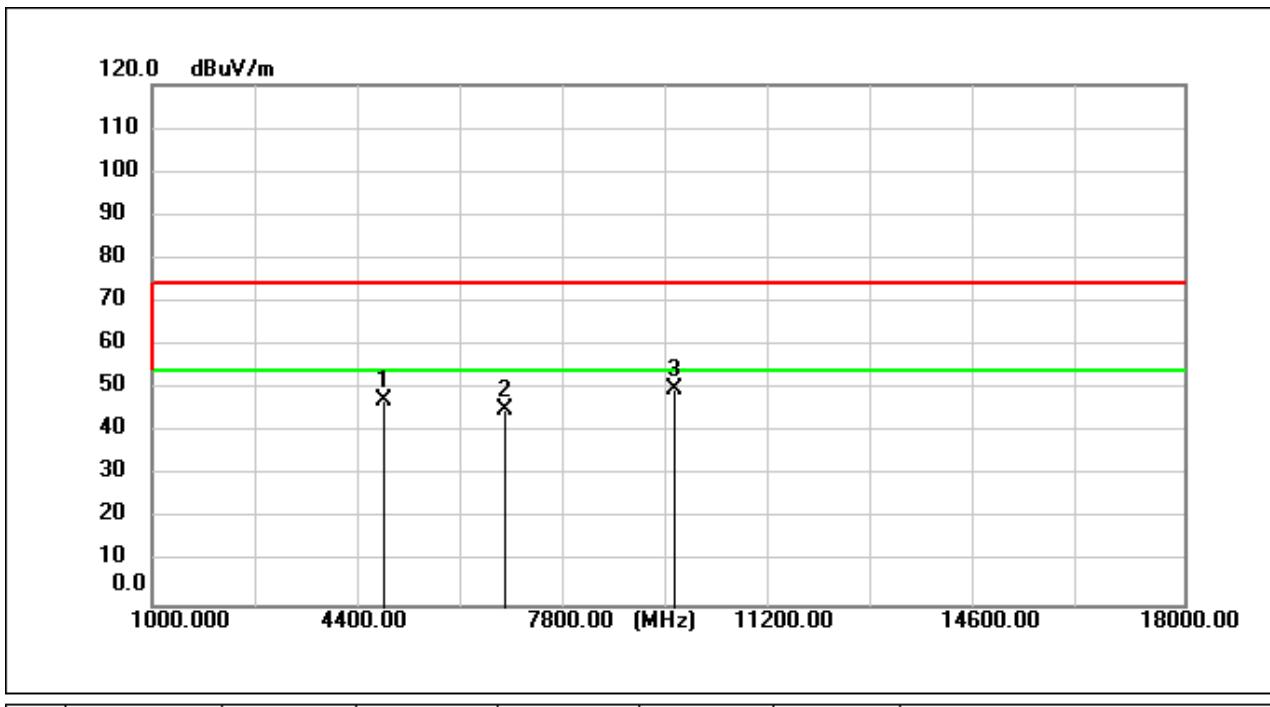
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.600	69.22	-16.79	52.43	74.00	-21.57	peak
2	7386.900	58.12	-9.99	48.13	74.00	-25.87	peak
3	10077.150	54.91	-5.64	49.27	74.00	-24.73	peak

11b\_TX\_CH\_11\_Vertical



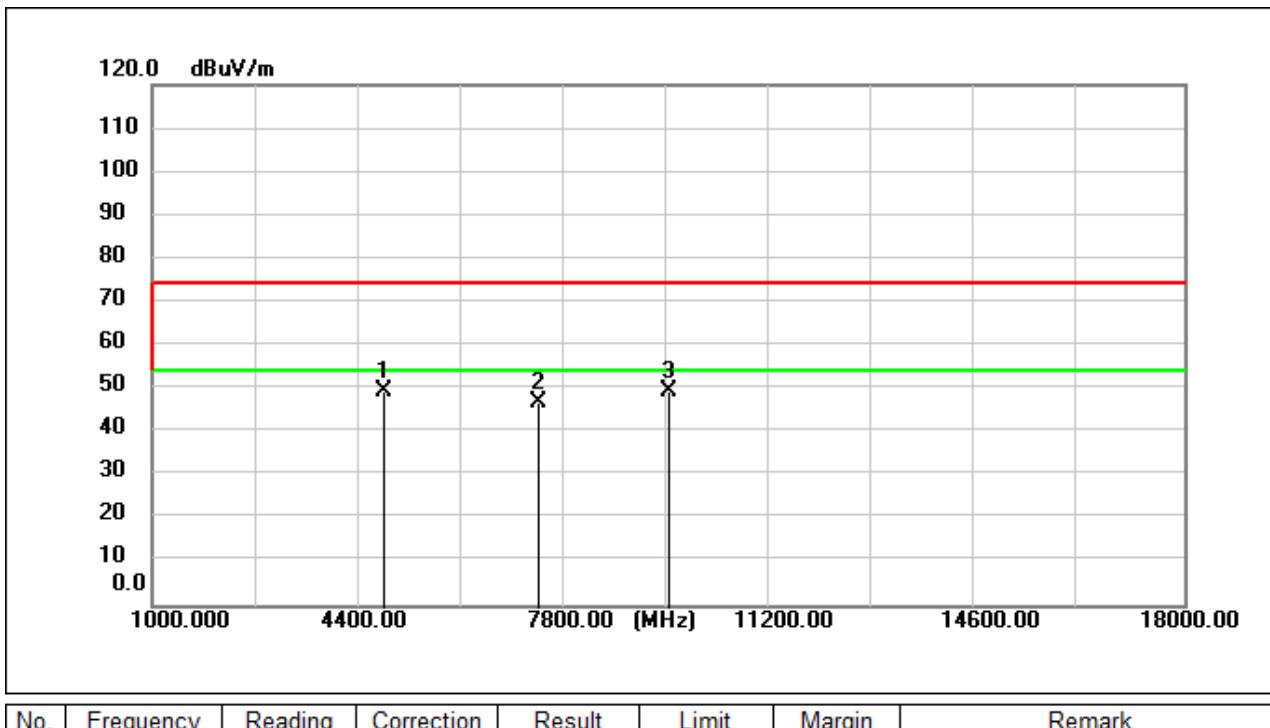
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.600	70.18	-16.79	53.39	74.00	-20.61	peak
2	7387.750	56.95	-9.99	46.96	74.00	-27.04	peak
3	10788.600	56.21	-6.23	49.98	74.00	-24.02	peak

## 11n\_HT(20M)\_TX\_CH\_01\_Horizontal



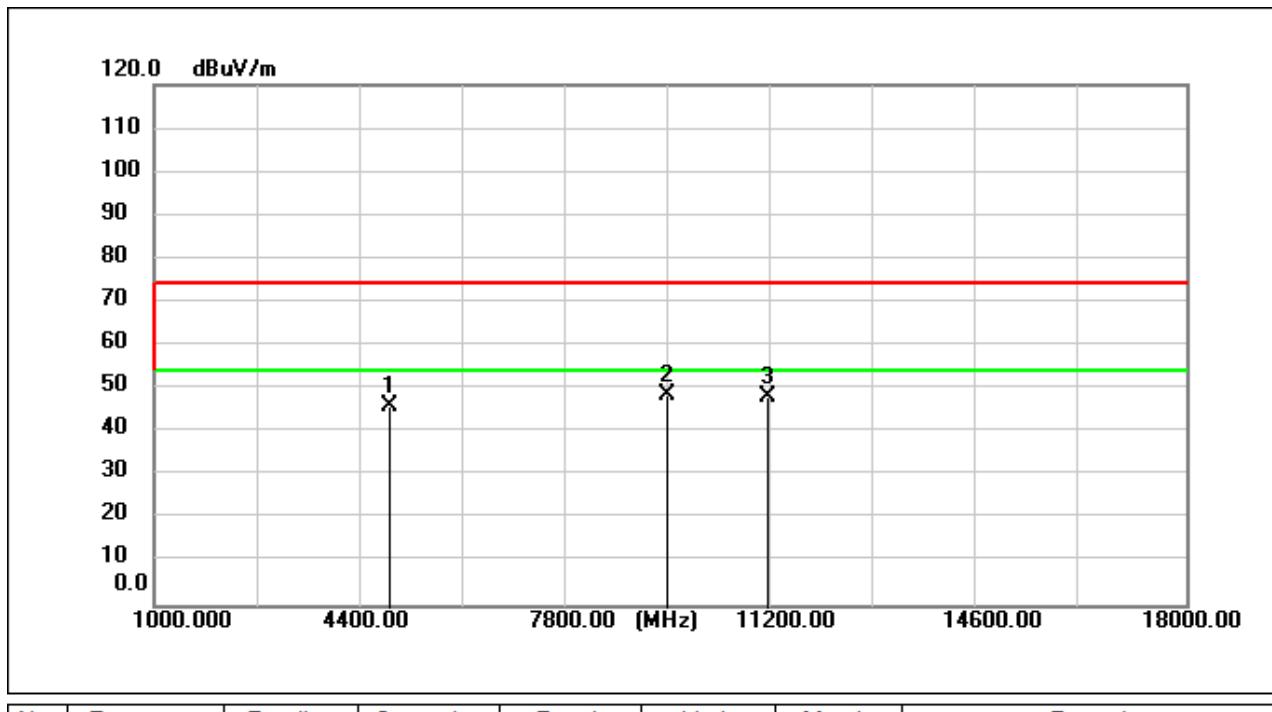
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4821.600	64.24	-16.98	47.26	74.00	-26.74	peak
2	6798.700	55.56	-10.34	45.22	74.00	-28.78	peak
3	9595.200	56.11	-6.28	49.83	74.00	-24.17	peak

## 11n\_HT(20M)\_TX\_CH\_01\_Vertical



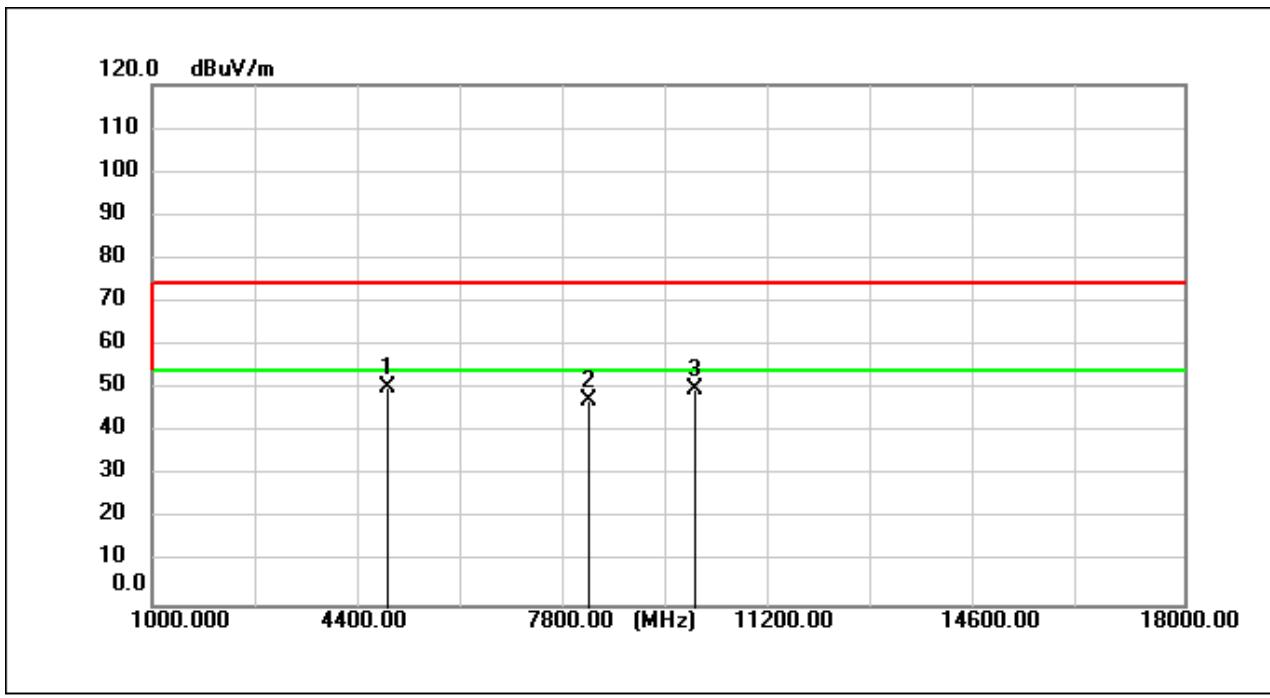
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4825.000	66.29	-16.97	49.32	74.00	-24.68	peak
2	7363.100	56.74	-9.99	46.75	74.00	-27.25	peak
3	9488.950	55.91	-6.56	49.35	74.00	-24.65	peak

## 11n\_HT(20M)\_TX\_CH\_06\_Horizontal



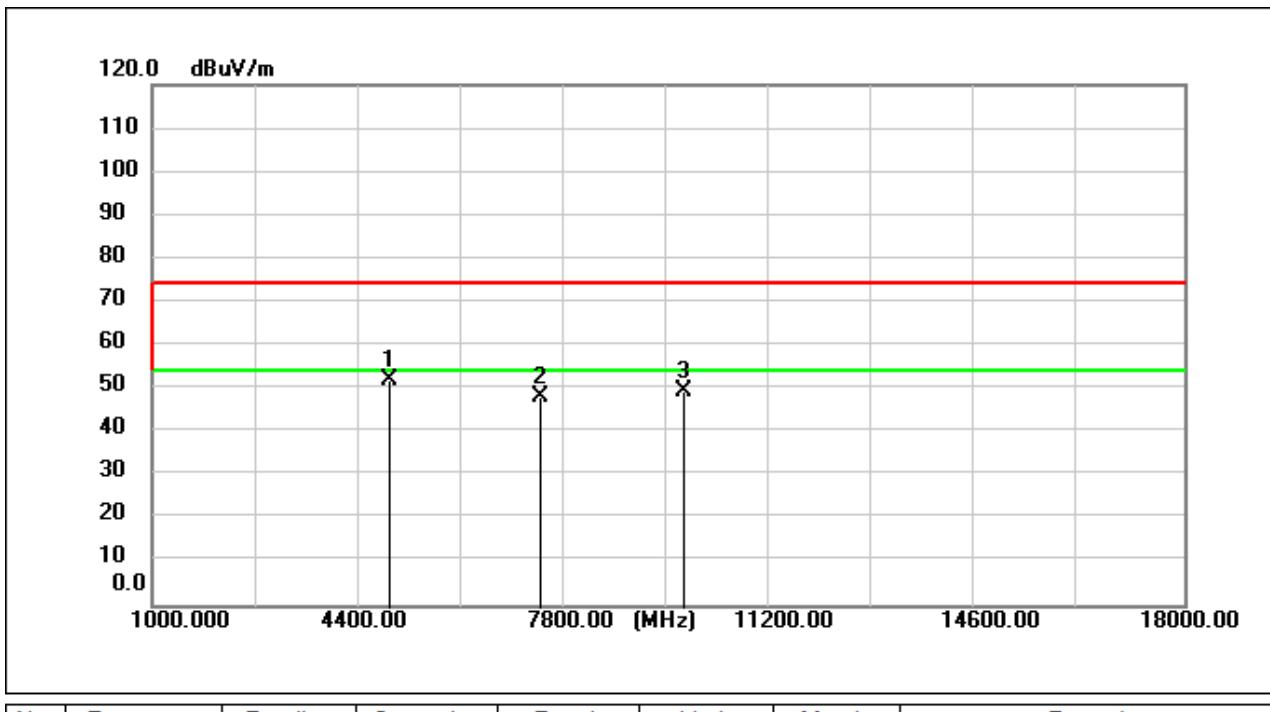
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4872.600	63.03	-16.89	46.14	74.00	-27.86	peak
2	9459.200	55.40	-6.63	48.77	74.00	-25.23	peak
3	11092.900	54.78	-6.43	48.35	74.00	-25.65	peak

## 11n\_HT(20M)\_TX\_CH\_06\_Vertical



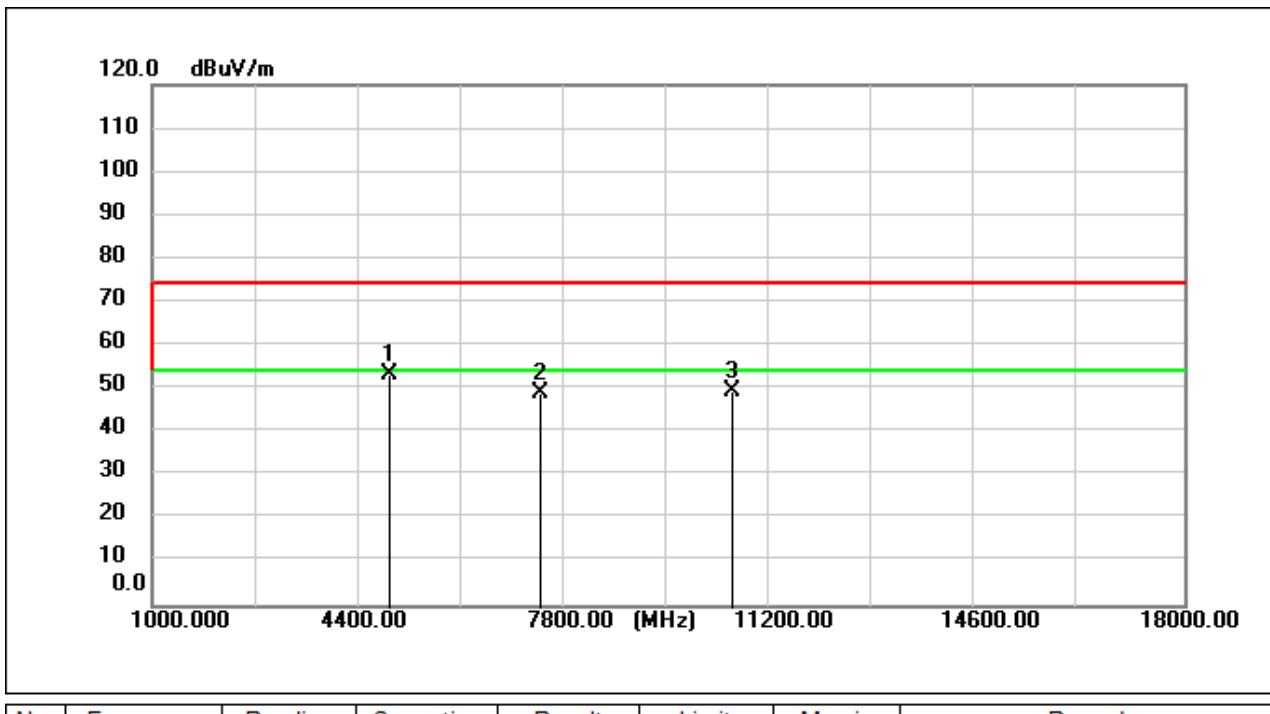
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4870.900	67.40	-16.89	50.51	74.00	-23.49	peak
2	8187.600	56.54	-9.01	47.53	74.00	-26.47	peak
3	9953.900	55.51	-5.59	49.92	74.00	-24.08	peak

## 11n\_HT(20M)\_TX\_CH\_11\_Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.600	68.99	-16.79	52.20	74.00	-21.80	peak
2	7386.900	58.34	-9.99	48.35	74.00	-25.65	peak
3	9740.550	55.54	-5.92	49.62	74.00	-24.38	peak

11n\_HT(20M)\_TX\_CH\_11\_Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.600	70.12	-16.79	53.33	74.00	-20.67	peak
2	7385.200	58.91	-9.99	48.92	74.00	-25.08	peak
3	10565.050	55.61	-6.05	49.56	74.00	-24.44	peak

## 7.4 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)  
Test Method: ANSI C63.10 (2020) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ 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

### 7.4.1 E.U.T. Operation

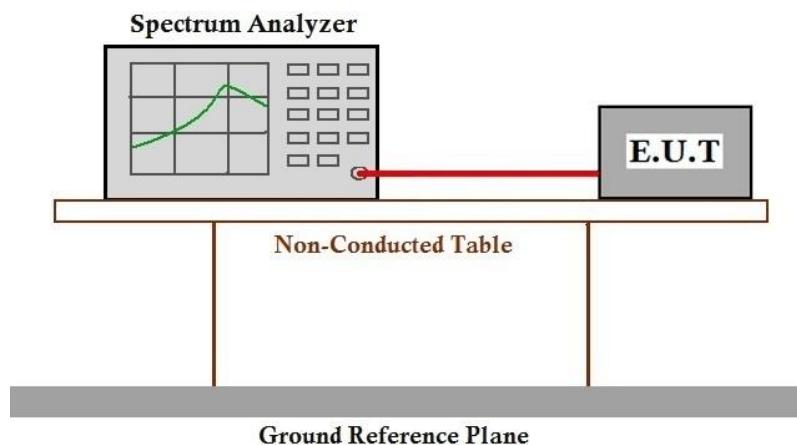
Operating Environment:

Temperature: 20.5 °C      Humidity: 50.5 % RH      Atmospheric Pressure: 1010 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

### 7.4.3 Test Setup Diagram



#### **7.4.4 Measurement Procedure and Data**

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

Please Refer to Appendix for Details

## 7.5 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)  
Test Method: ANSI C63.10 (2020) Section 11.8.1

Limit:  
≥500 kHz

### 7.5.1 E.U.T. Operation

Operating Environment:  
Temperature: 20.5 °C      Humidity: 50.5 % RH      Atmospheric Pressure: 1010 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

### 7.5.3 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.6 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)  
Test Method: ANSI C63.10 (2020) Section 11.10.2

Limit:

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

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C      Humidity: 50.5 % RH      Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

### 7.6.3 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)  
Test Method: ANSI C63.10 (2020) Section 6.10.4

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)).

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C      Humidity: 50.5 % RH      Atmospheric Pressure: 1010 mbar

### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

### 7.7.3 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)  
Test Method: ANSI C63.10 (2020) Section 6.10.4

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)).

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C      Humidity: 50.5 % RH      Atmospheric Pressure: 1010 mbar

### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

### 7.8.3 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.7  
Test Method: ANSI C63.10 (2020) Section 6.9.3

### 7.9.1 E.U.T. Operation

Operating Environment:  
Temperature: 20.5 °C      Humidity: 50.5 % RH      Atmospheric Pressure: 1010 mbar

### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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 only the data of worst case is recorded in the report.

### 7.9.3 Measurement Procedure and Data

Please Refer to Appendix for Details

## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2506001384AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix\_Photos of EUT Constructional Details for KSCR2506001384AT

## 10 Appendix

### 1. Duty Cycle

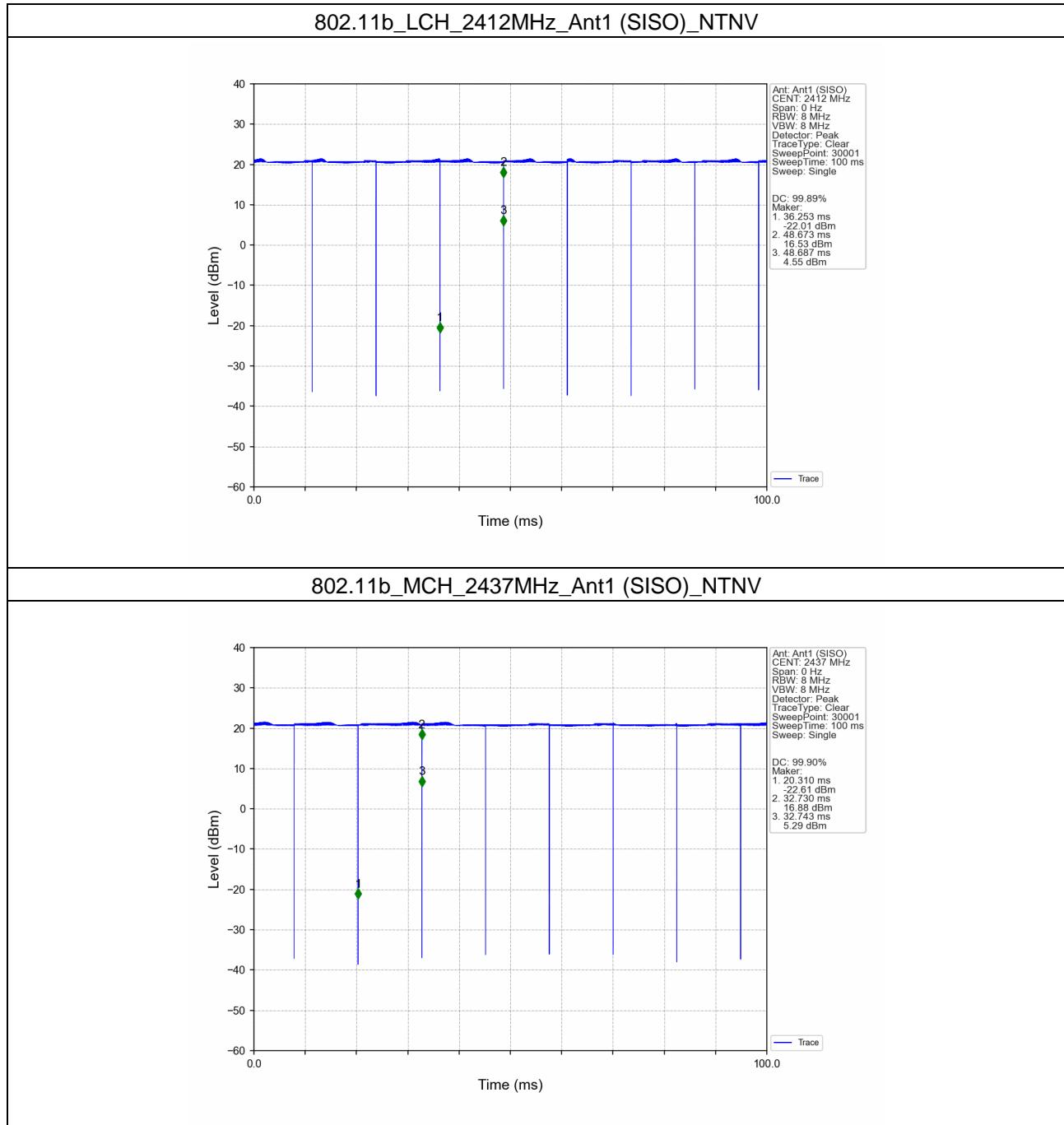
#### 1.1 Test Result

##### 1.1.1 Ant1

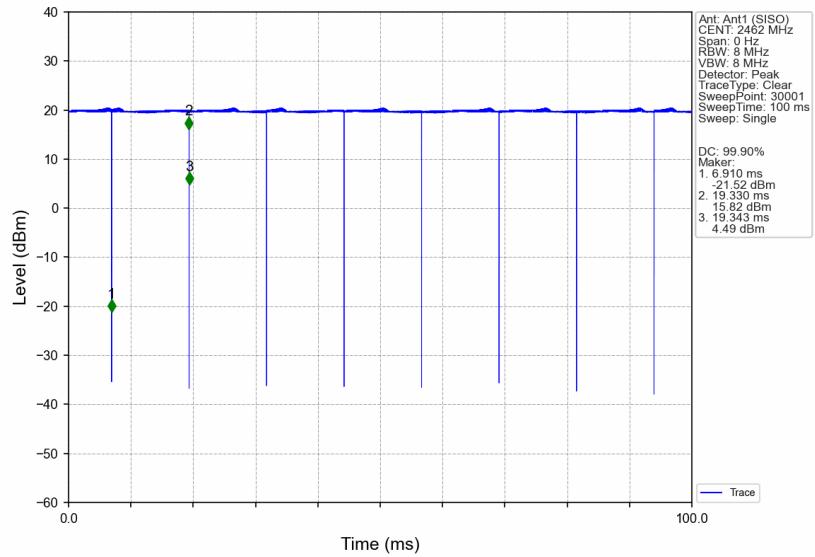
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.420	12.434	99.89	0.00	0.03
		2437	12.420	12.433	99.90	0.00	0.03
		2462	12.420	12.433	99.90	0.00	0.03
802.11g	SISO	2412	2.065	2.083	99.14	0.04	0.04
		2437	2.065	2.084	99.09	0.04	0.07
		2462	2.065	2.083	99.14	0.04	0.03
802.11n (HT20)	SISO	2412	1.920	1.939	99.02	0.04	0.03
		2437	1.920	1.939	99.02	0.04	0.03
		2462	1.921	1.939	99.07	0.04	0.00

## 1.2 Test Graph

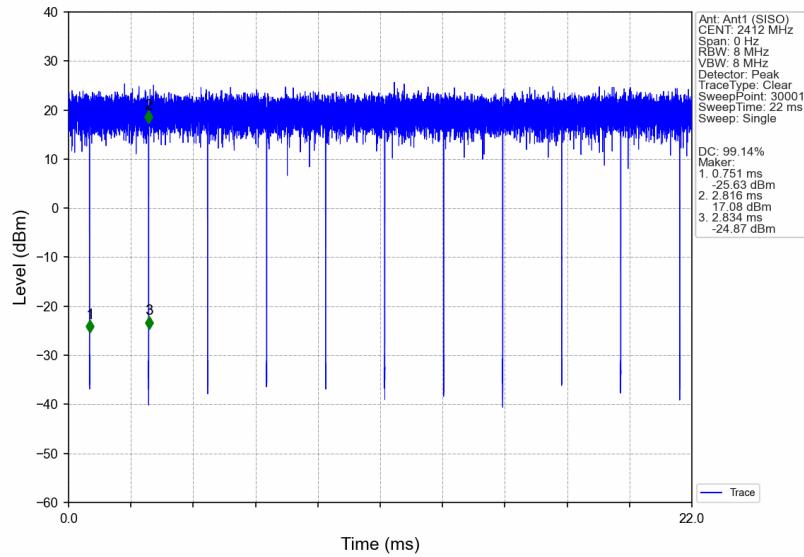
### 1.2.1 Ant1

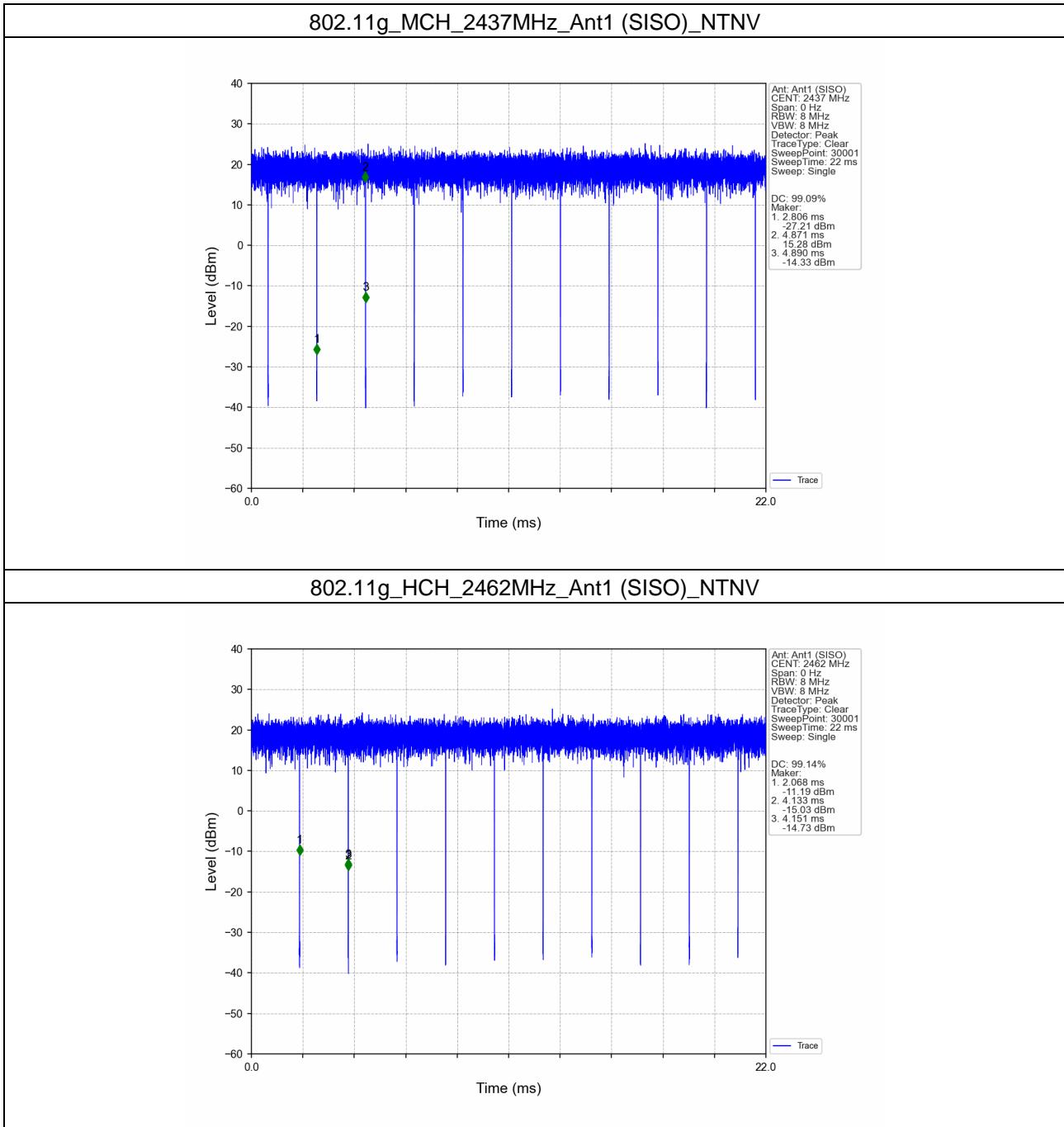


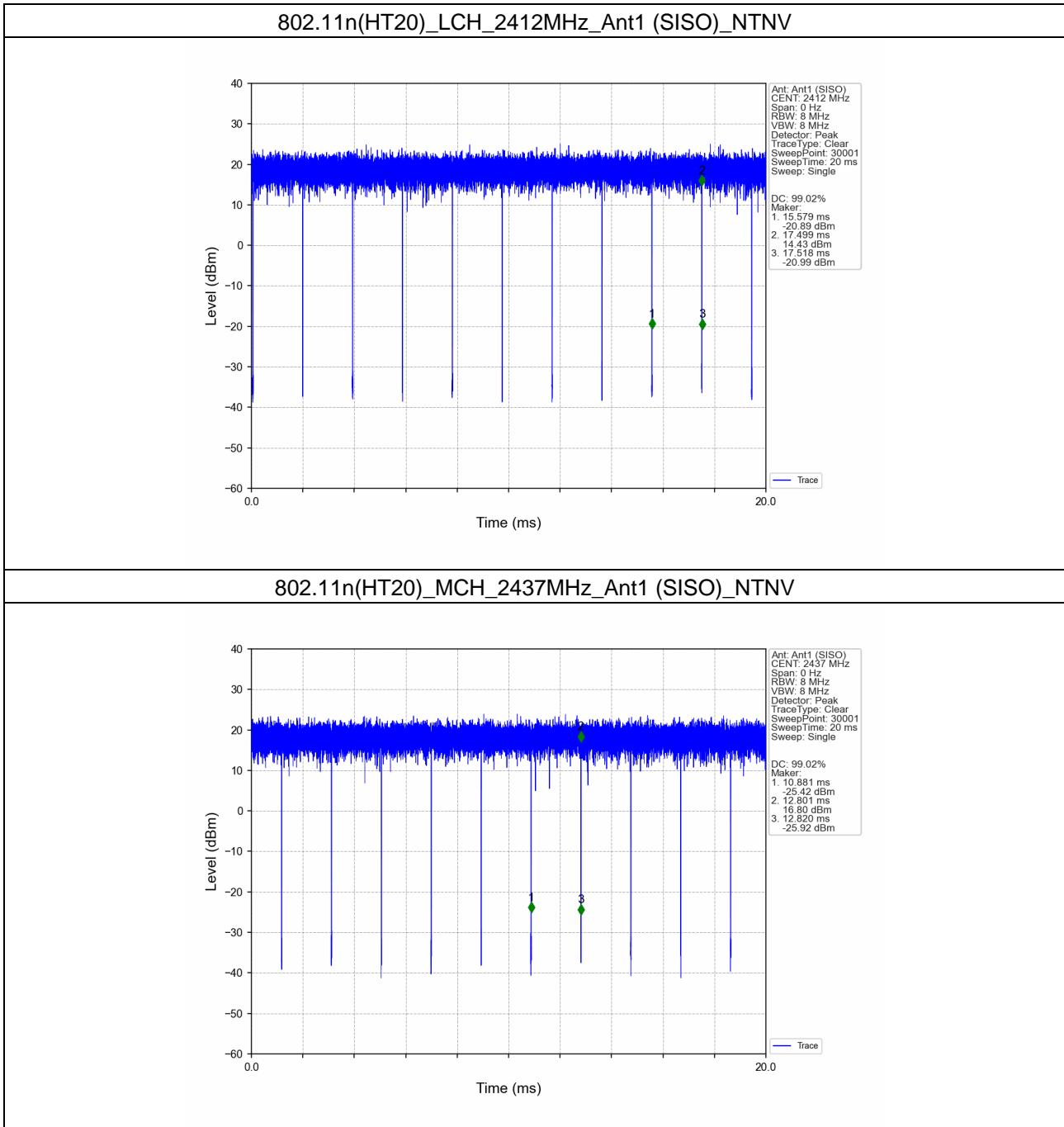
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

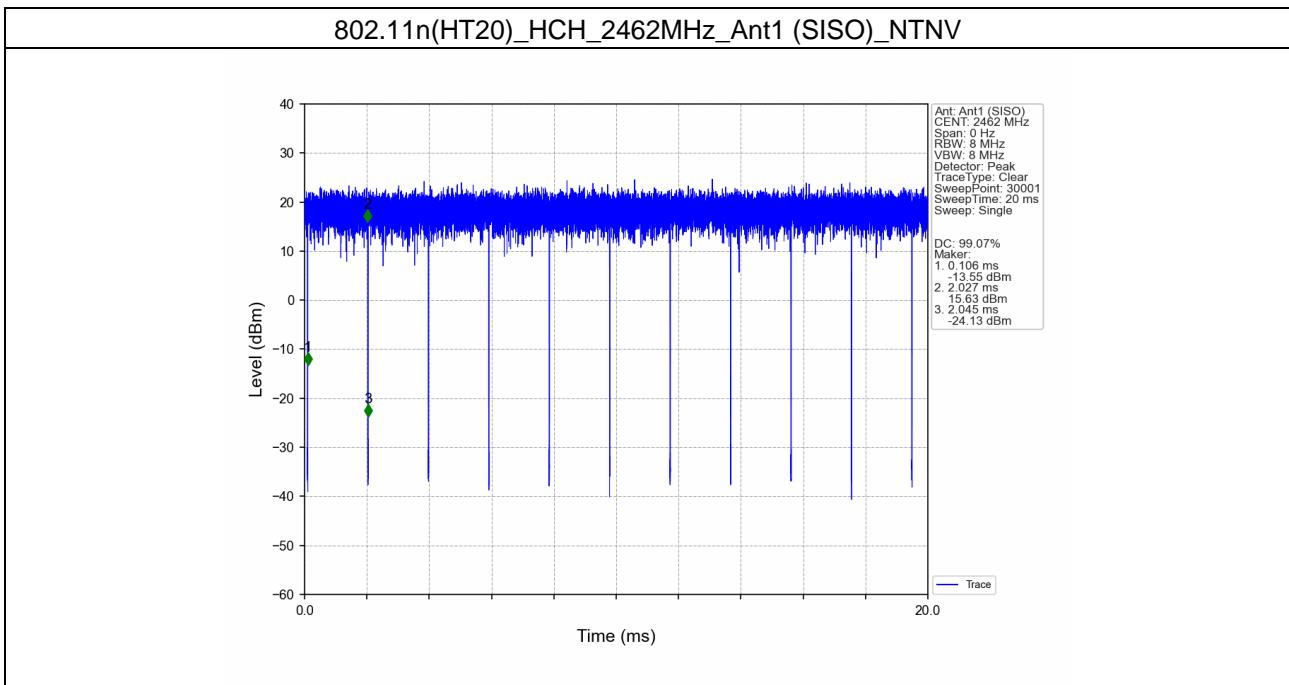


## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV









## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

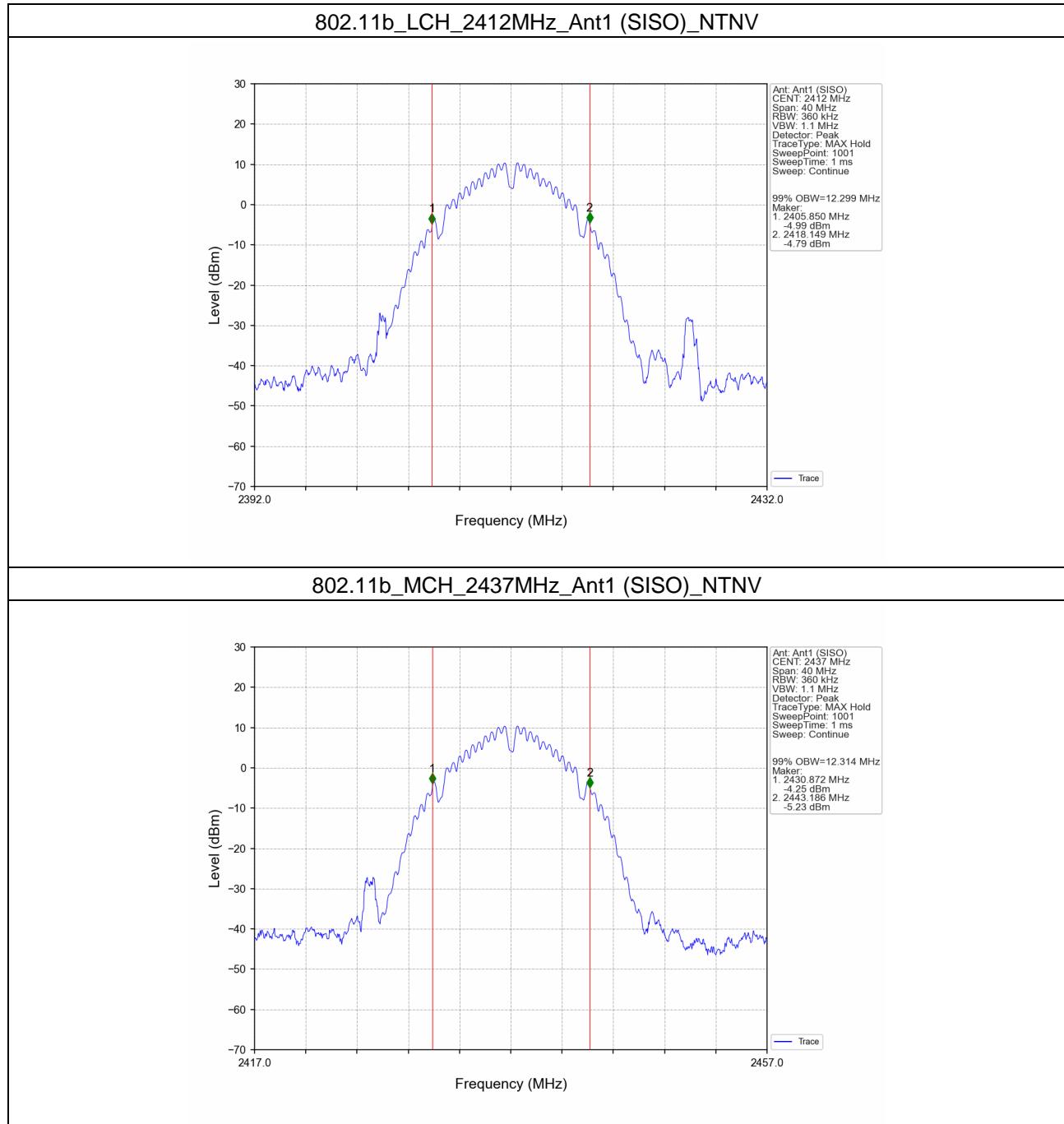
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.299	/	Pass
		2437	1	12.314	/	Pass
		2462	1	12.314	/	Pass
802.11g	SISO	2412	1	17.325	/	Pass
		2437	1	17.254	/	Pass
		2462	1	17.277	/	Pass
802.11n (HT20)	SISO	2412	1	18.262	/	Pass
		2437	1	18.164	/	Pass
		2462	1	18.346	/	Pass

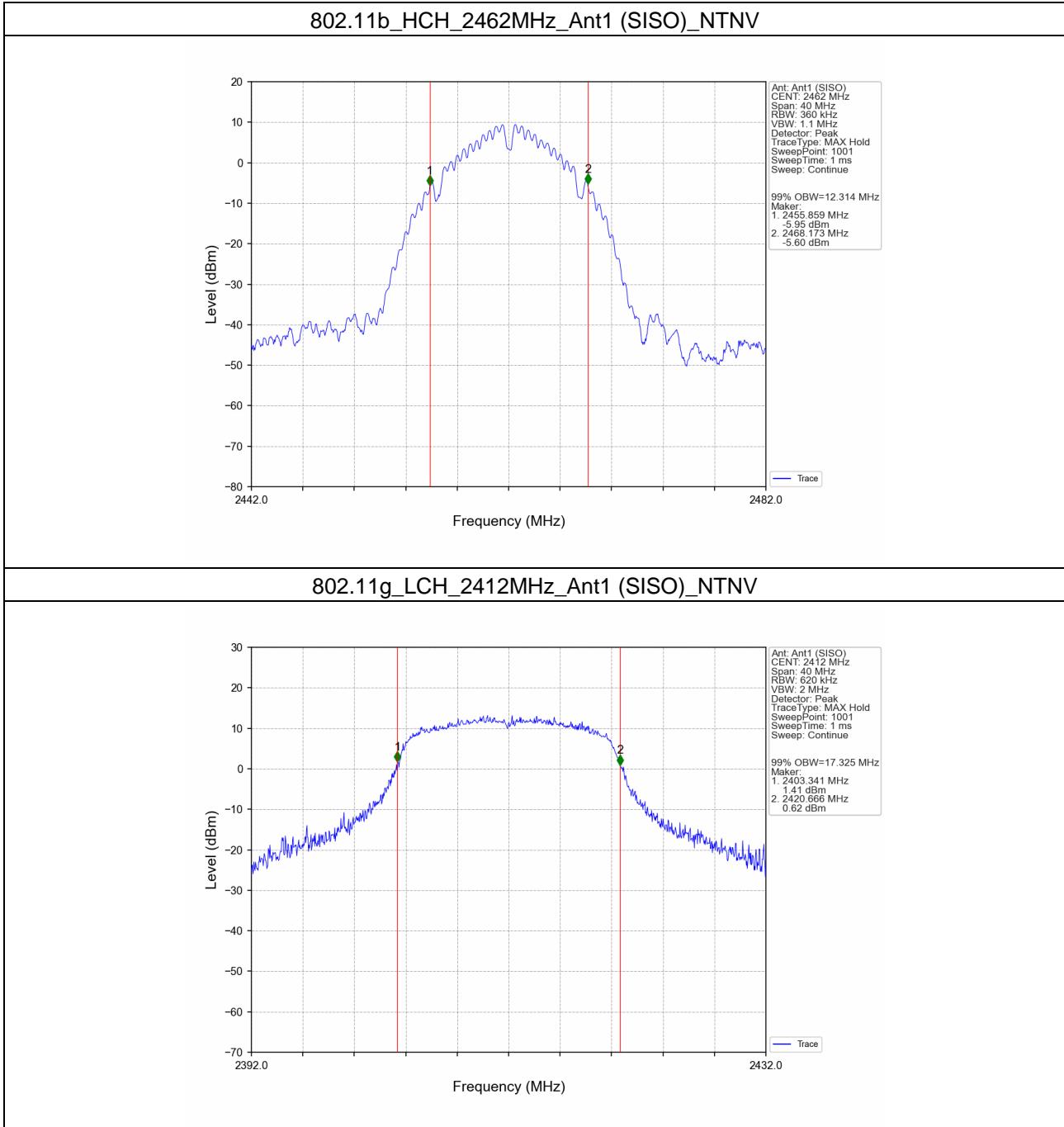
#### 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.083	>=0.5	Pass
		2437	1	7.103	>=0.5	Pass
		2462	1	7.080	>=0.5	Pass
802.11g	SISO	2412	1	14.839	>=0.5	Pass
		2437	1	15.576	>=0.5	Pass
		2462	1	14.873	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	16.461	>=0.5	Pass
		2437	1	15.627	>=0.5	Pass
		2462	1	16.645	>=0.5	Pass

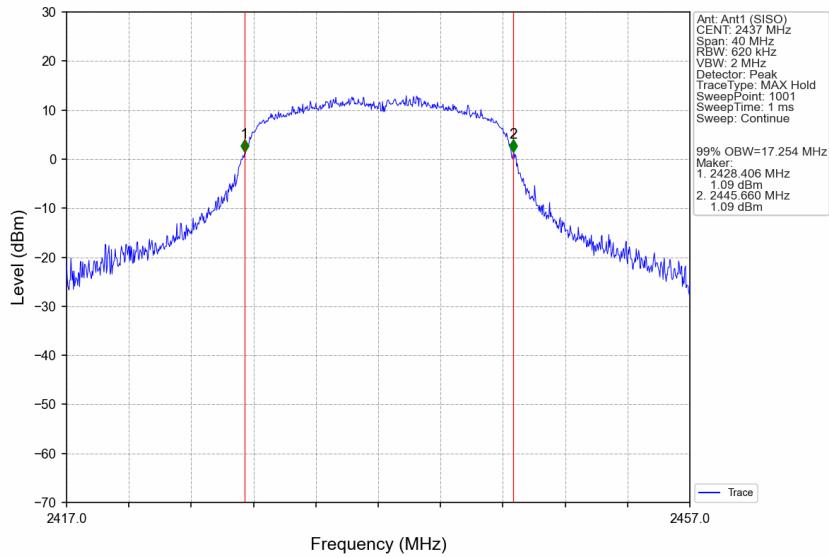
## 2.2 Test Graph

### 2.2.1 OBW

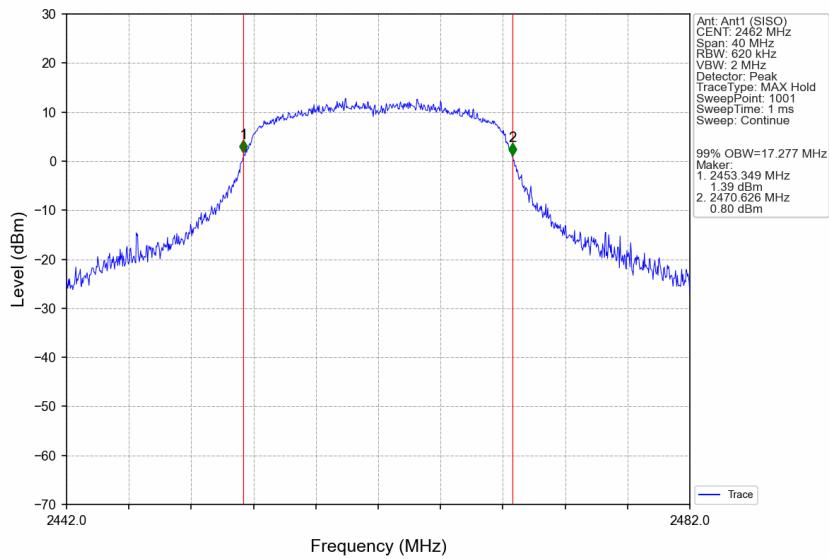


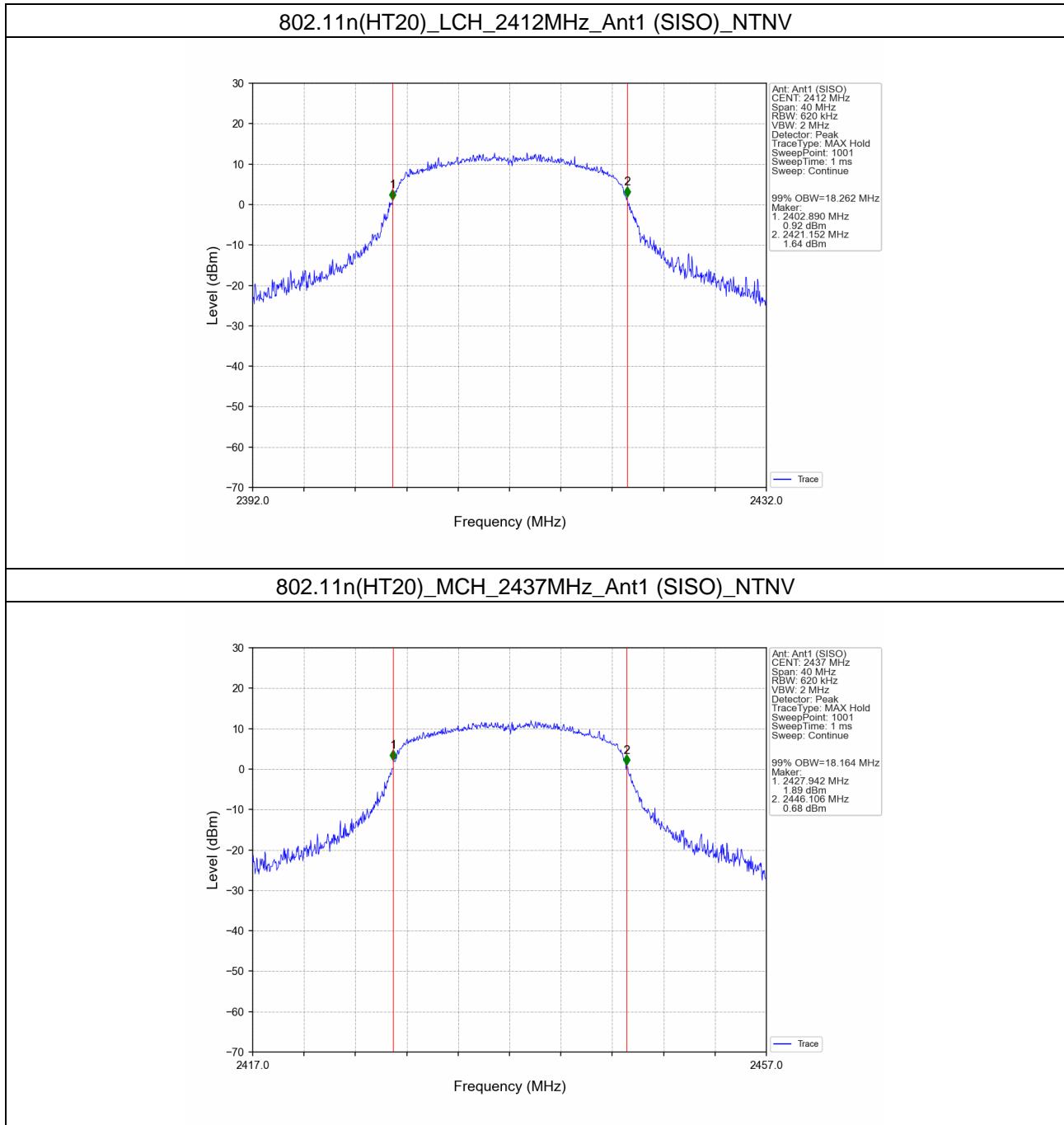


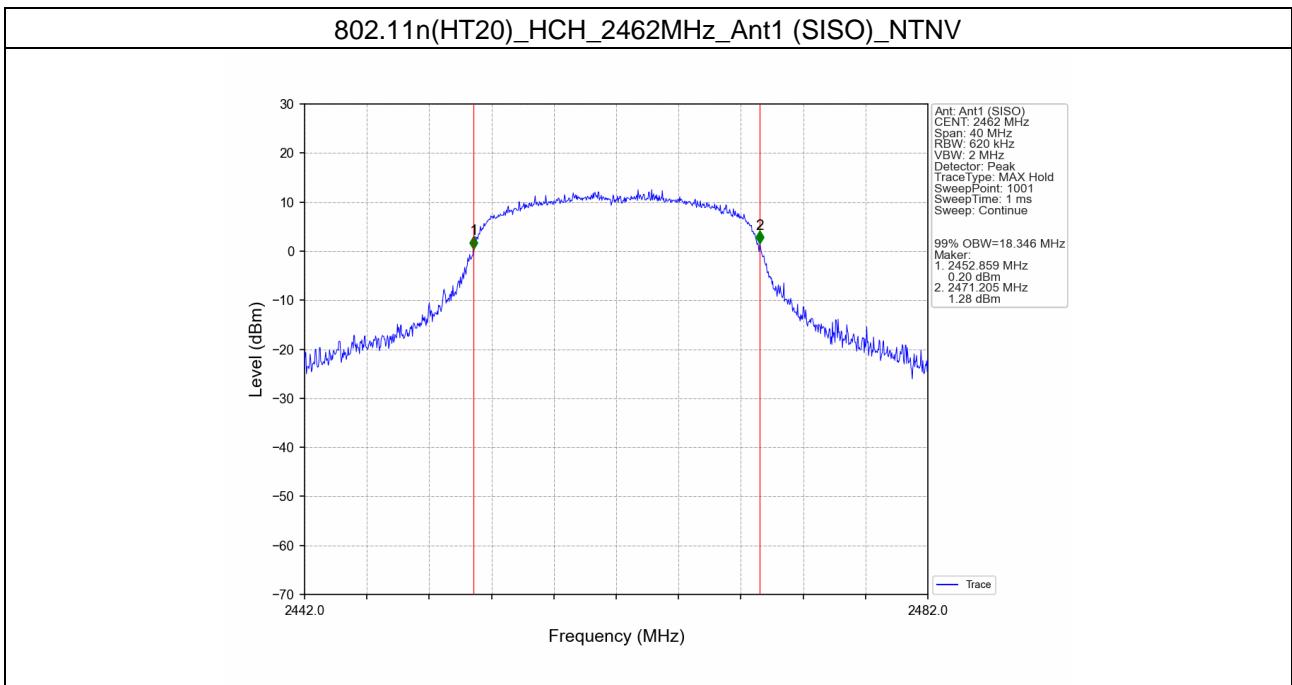
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

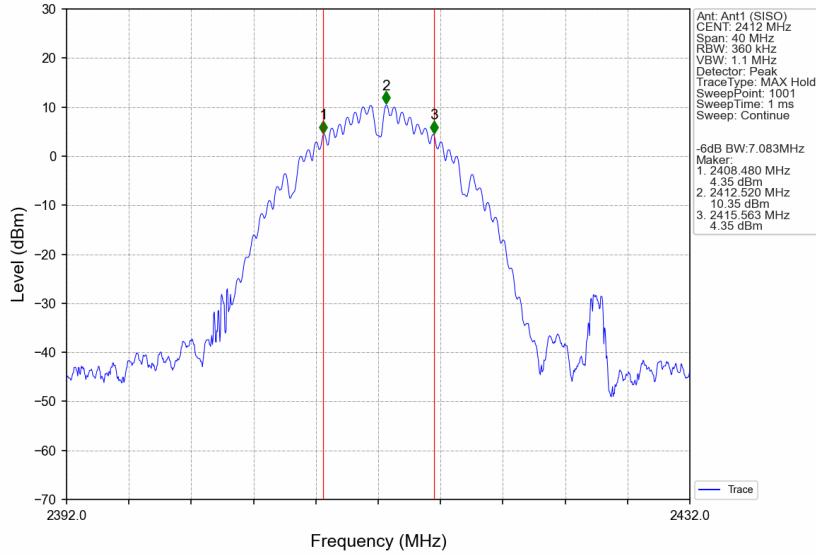




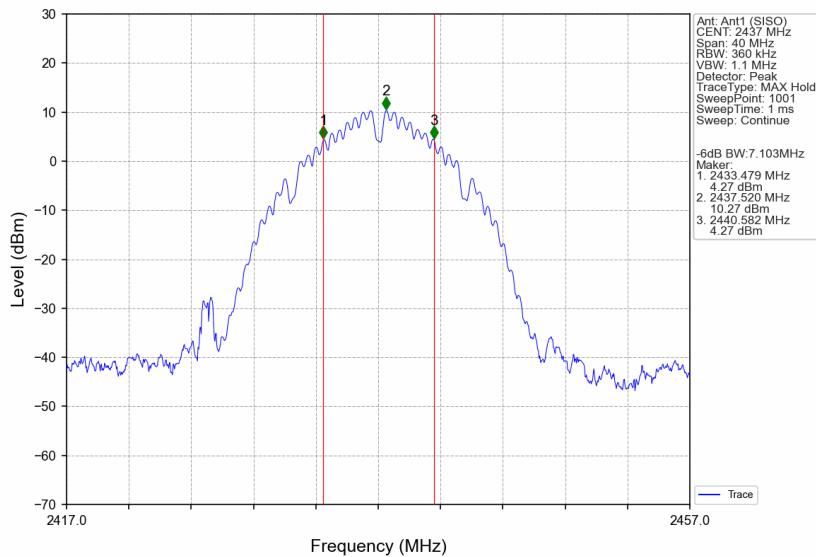


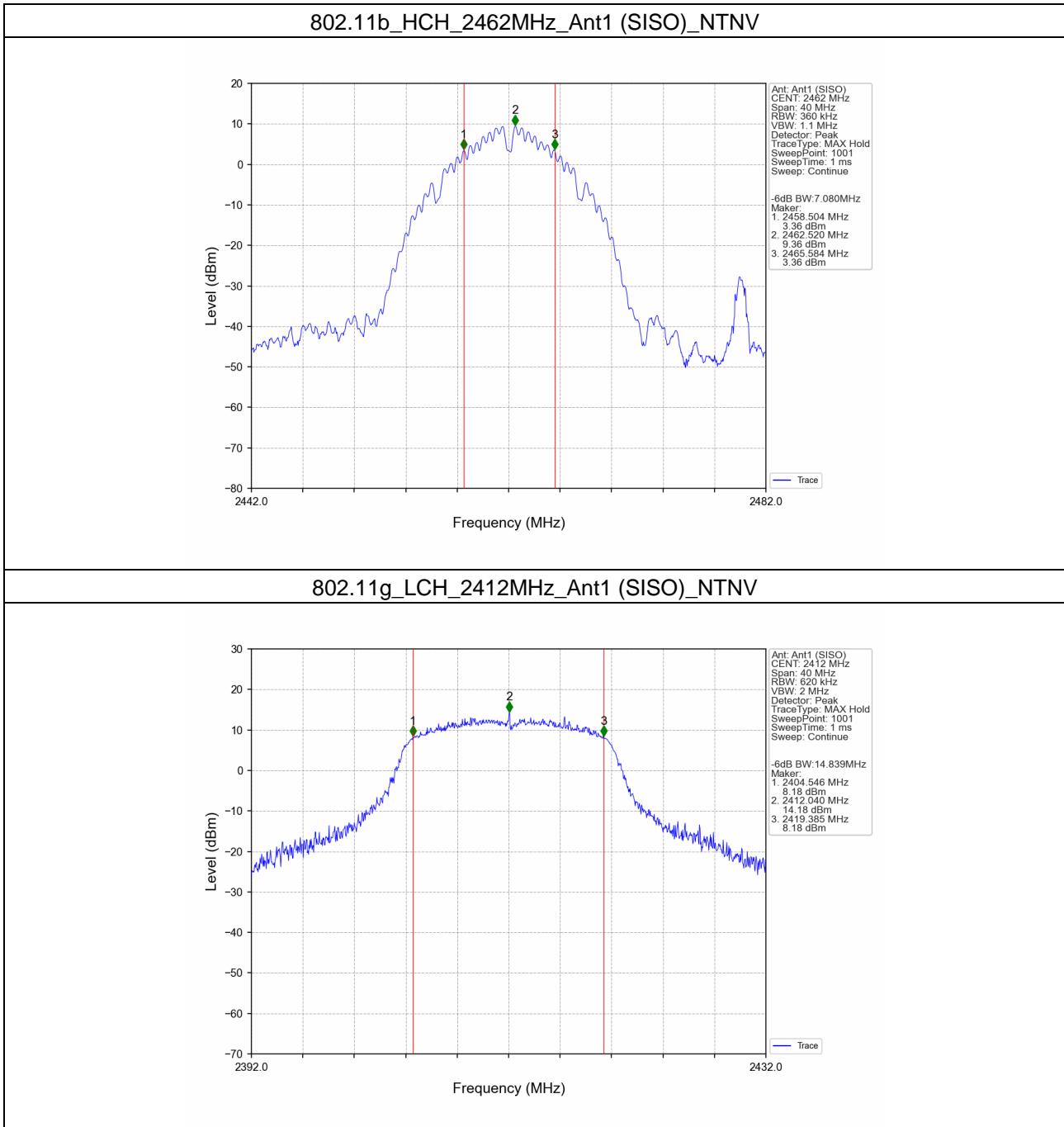
## 2.2.2 6dB BW

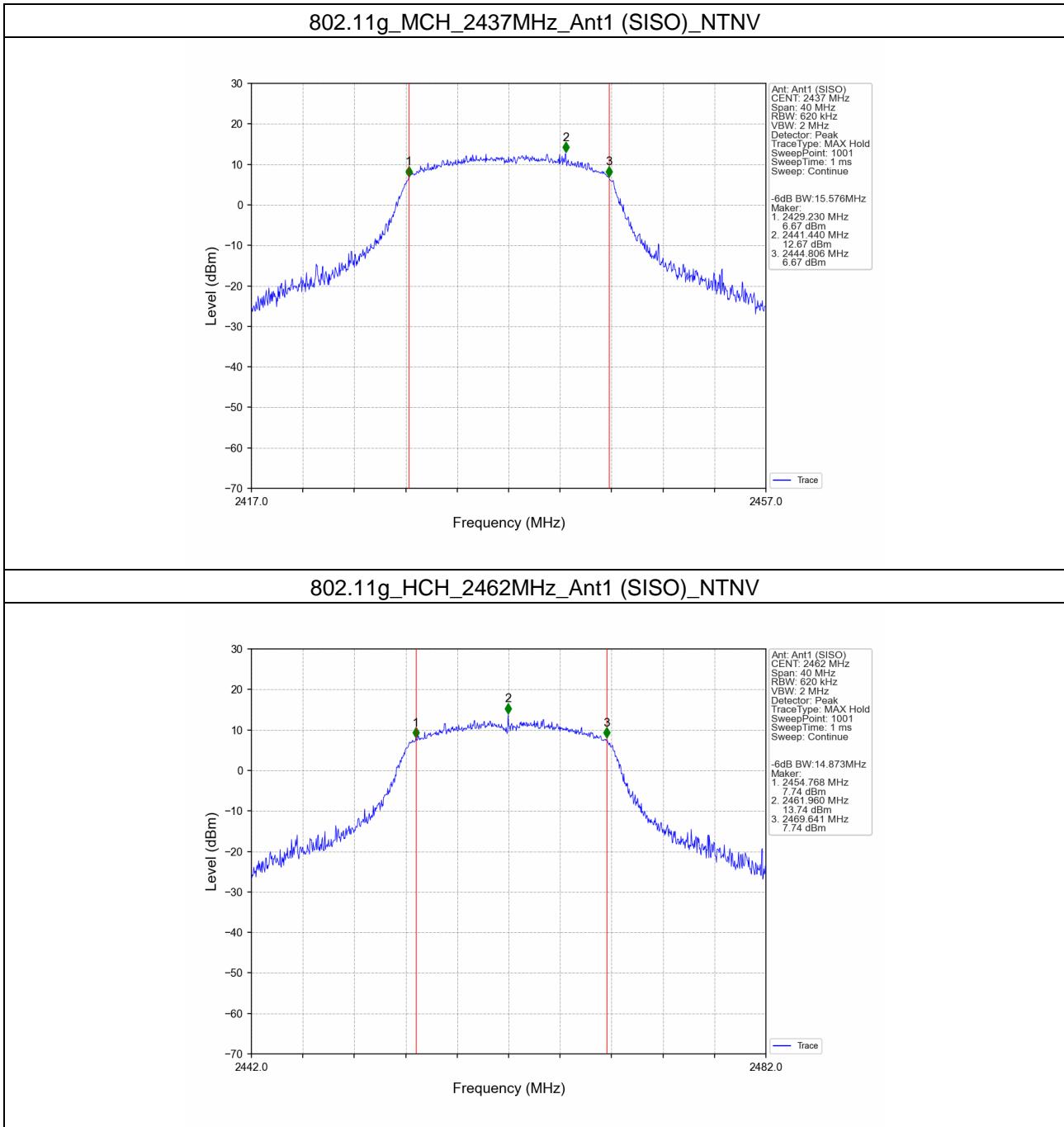
802.11b\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

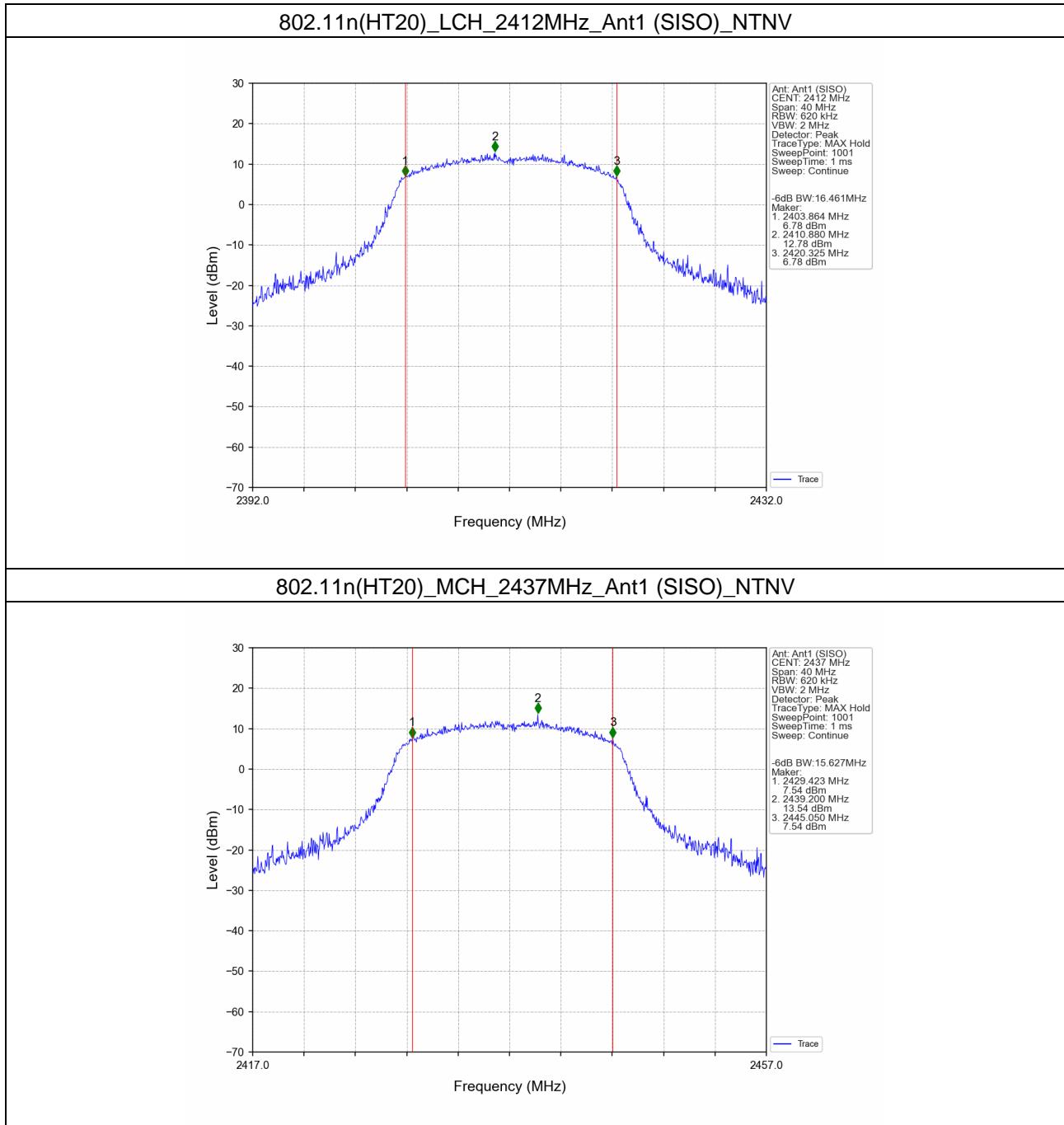


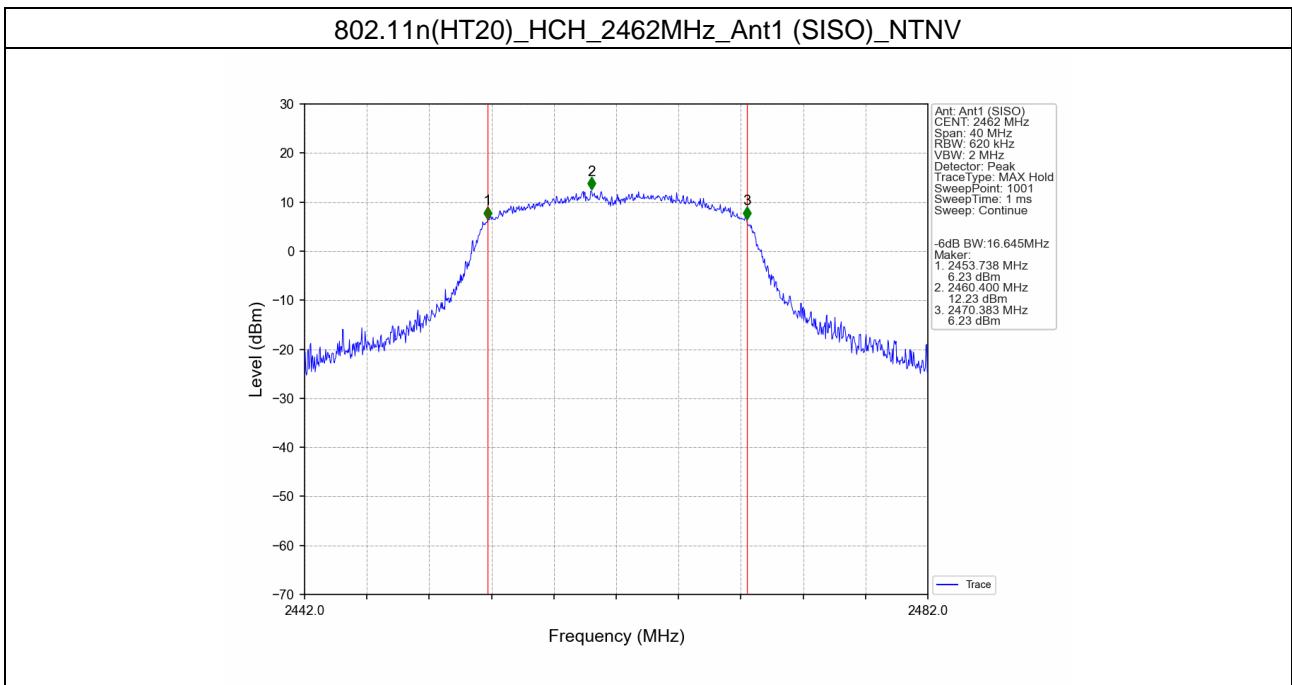
802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV











### 3. Maximum Conducted Output Power

#### 3.1 Test Result

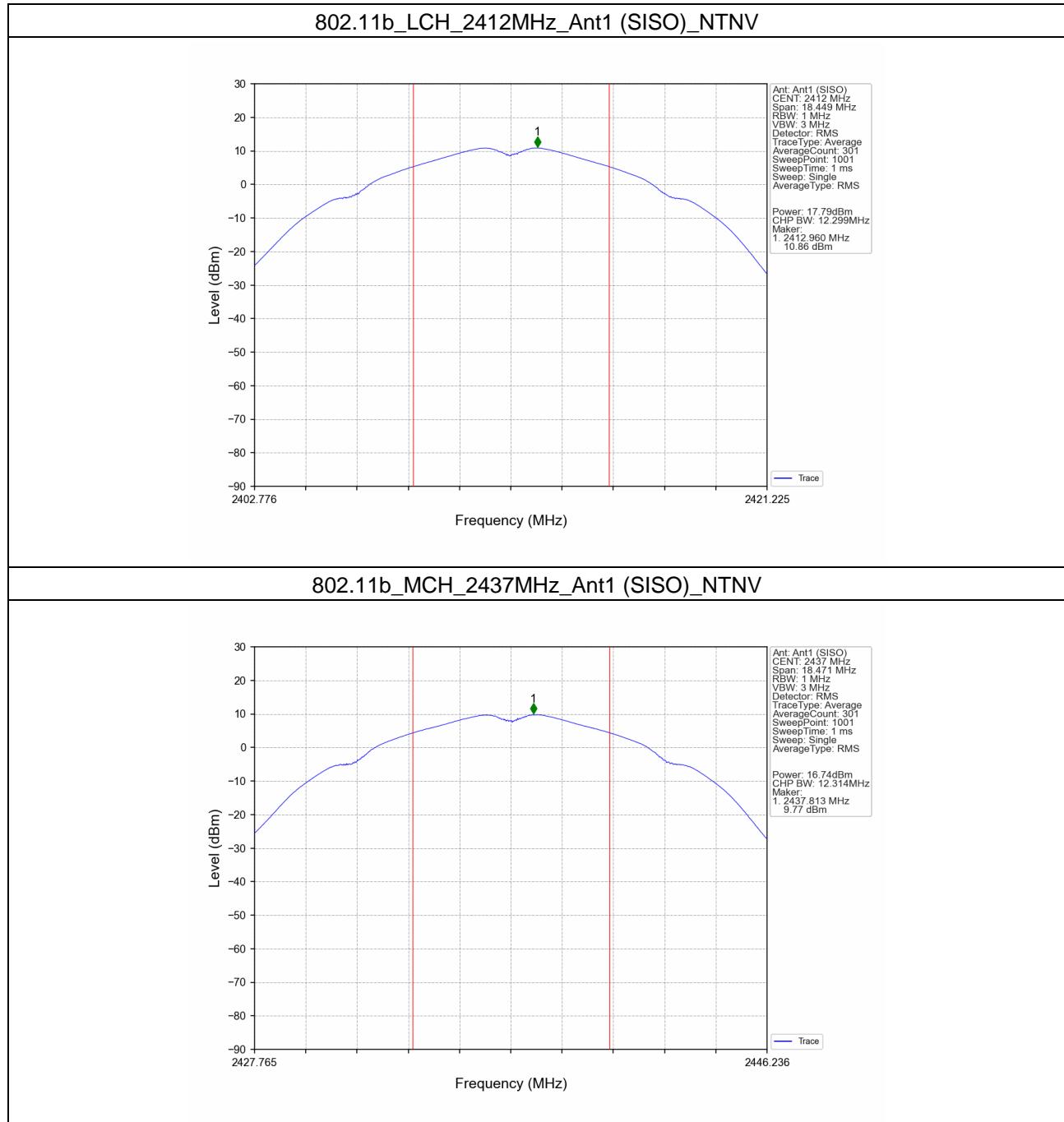
##### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	17.79	<=30	Pass
		2437	16.74	<=30	Pass
		2462	15.90	<=30	Pass
802.11g	SISO	2412	17.56	<=30	Pass
		2437	17.09	<=30	Pass
		2462	16.83	<=30	Pass
802.11n (HT20)	SISO	2412	17.22	<=30	Pass
		2437	16.67	<=30	Pass
		2462	16.85	<=30	Pass

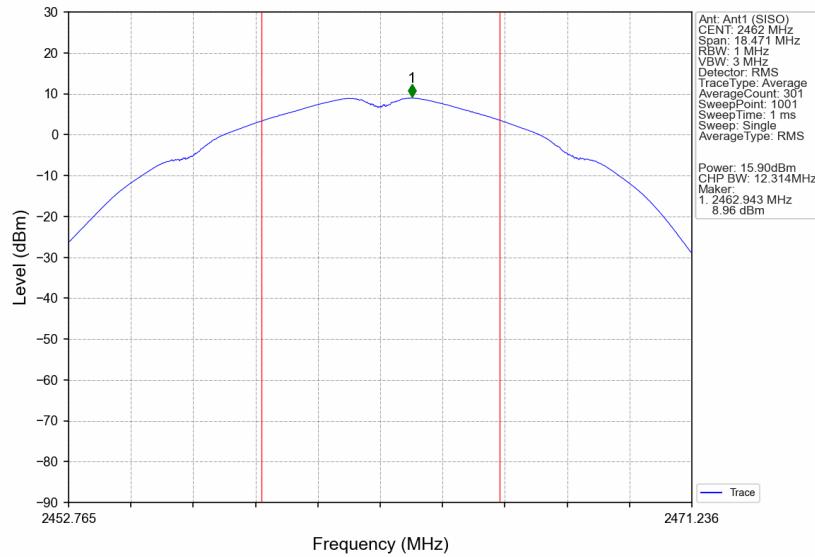
Note1: Antenna Gain: Ant1: -5.55dBi;

## 3.2 Test Graph

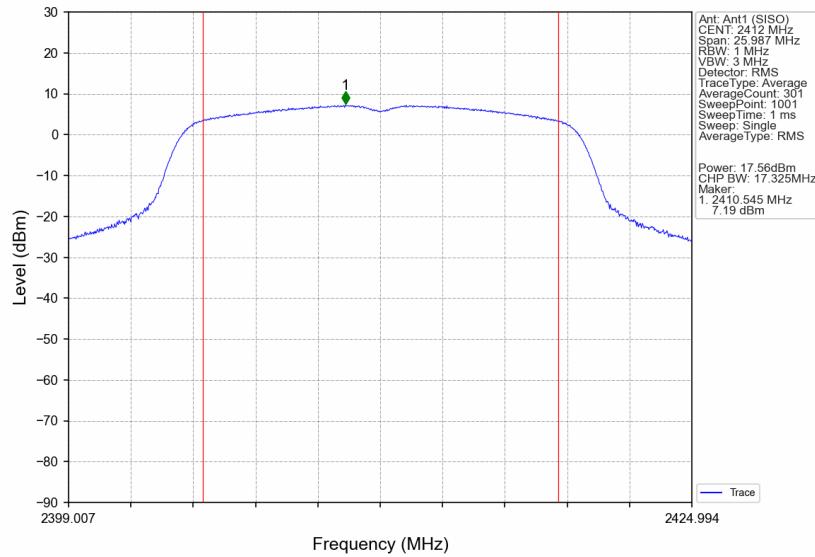
### 3.2.1 Power

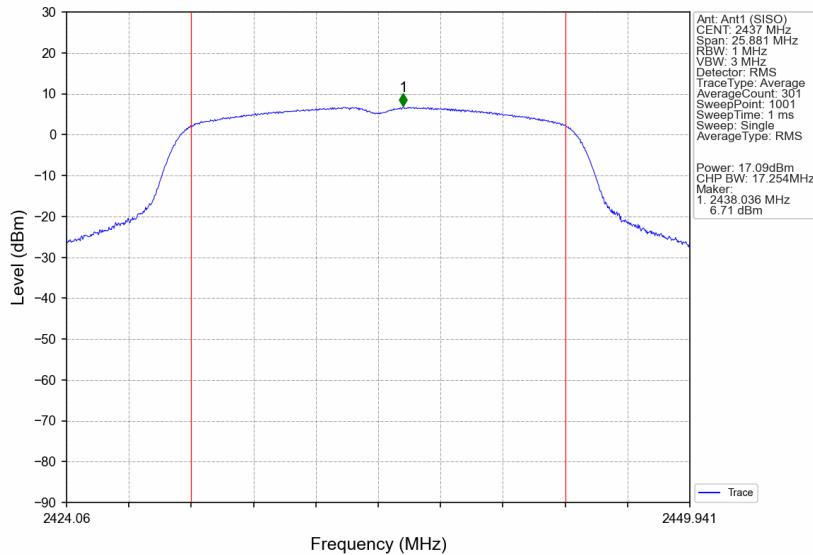
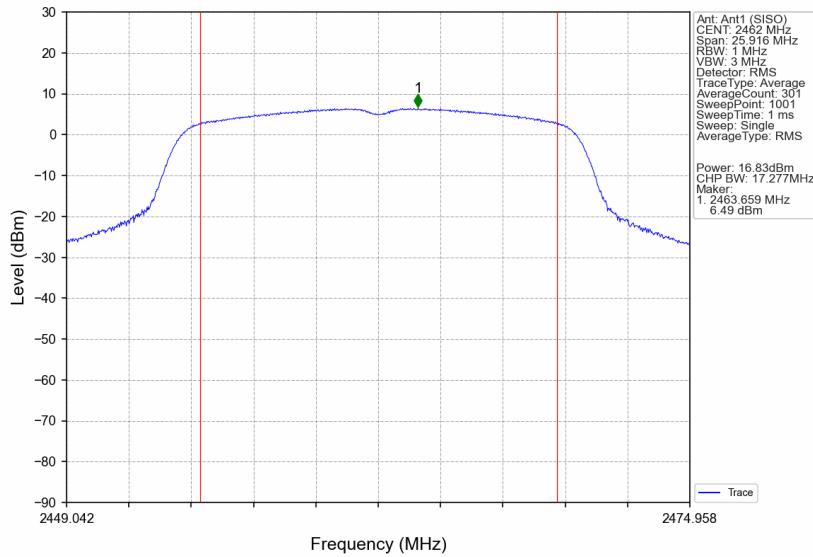


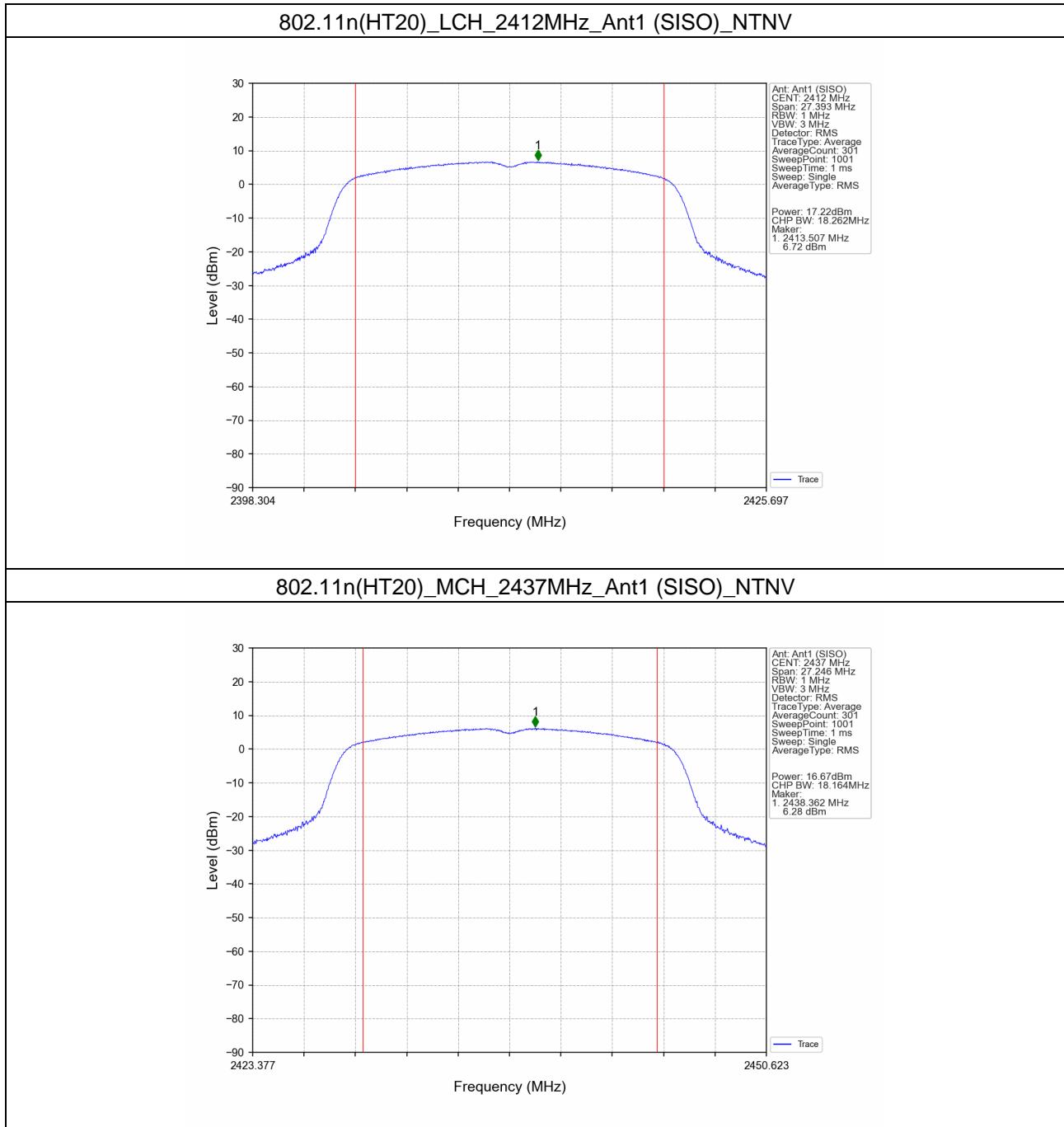
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

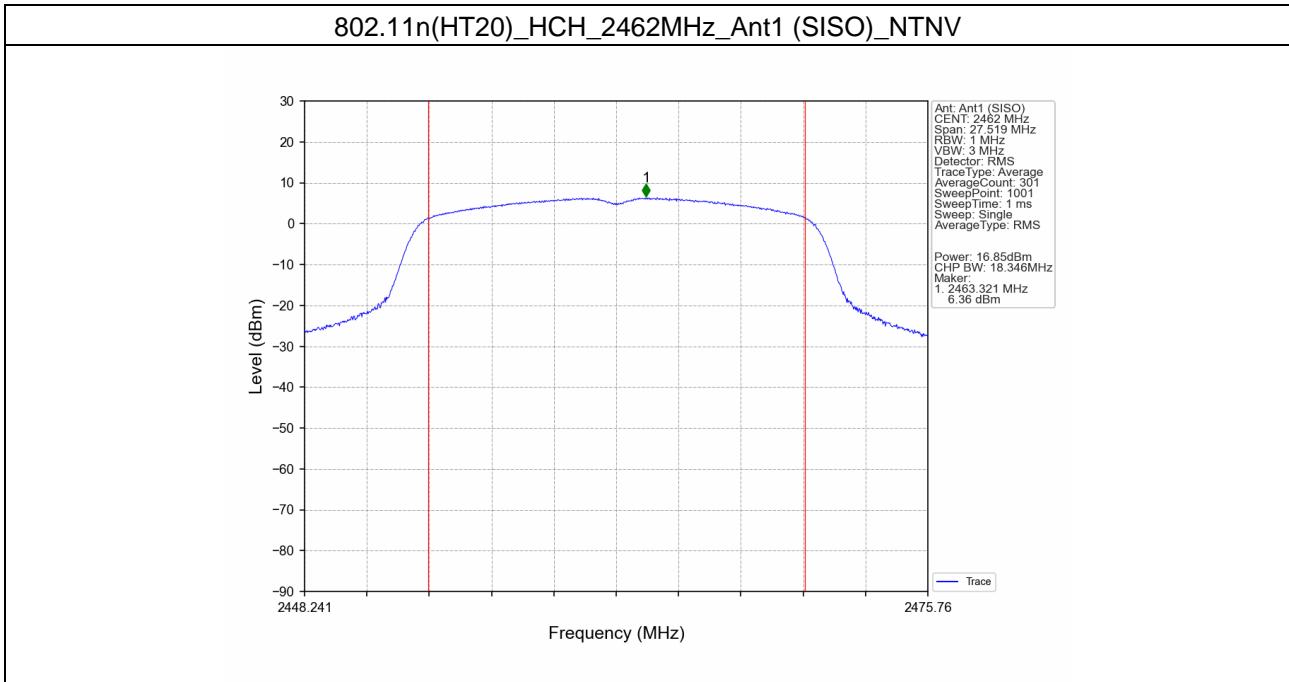


## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



**802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV****802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV**





## 4. Maximum Power Spectral Density

### 4.1 Test Result

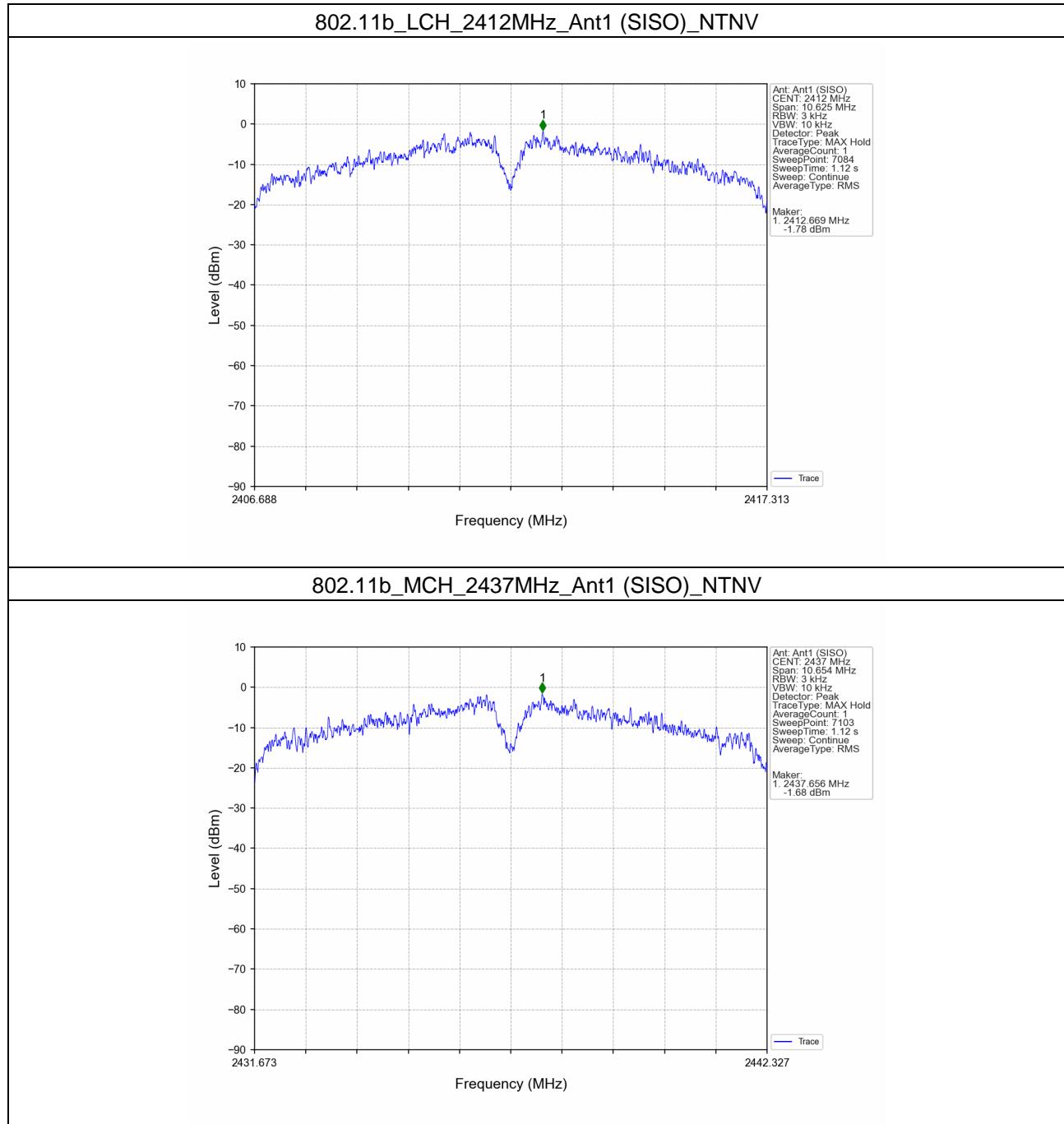
#### 4.1.1 PSD

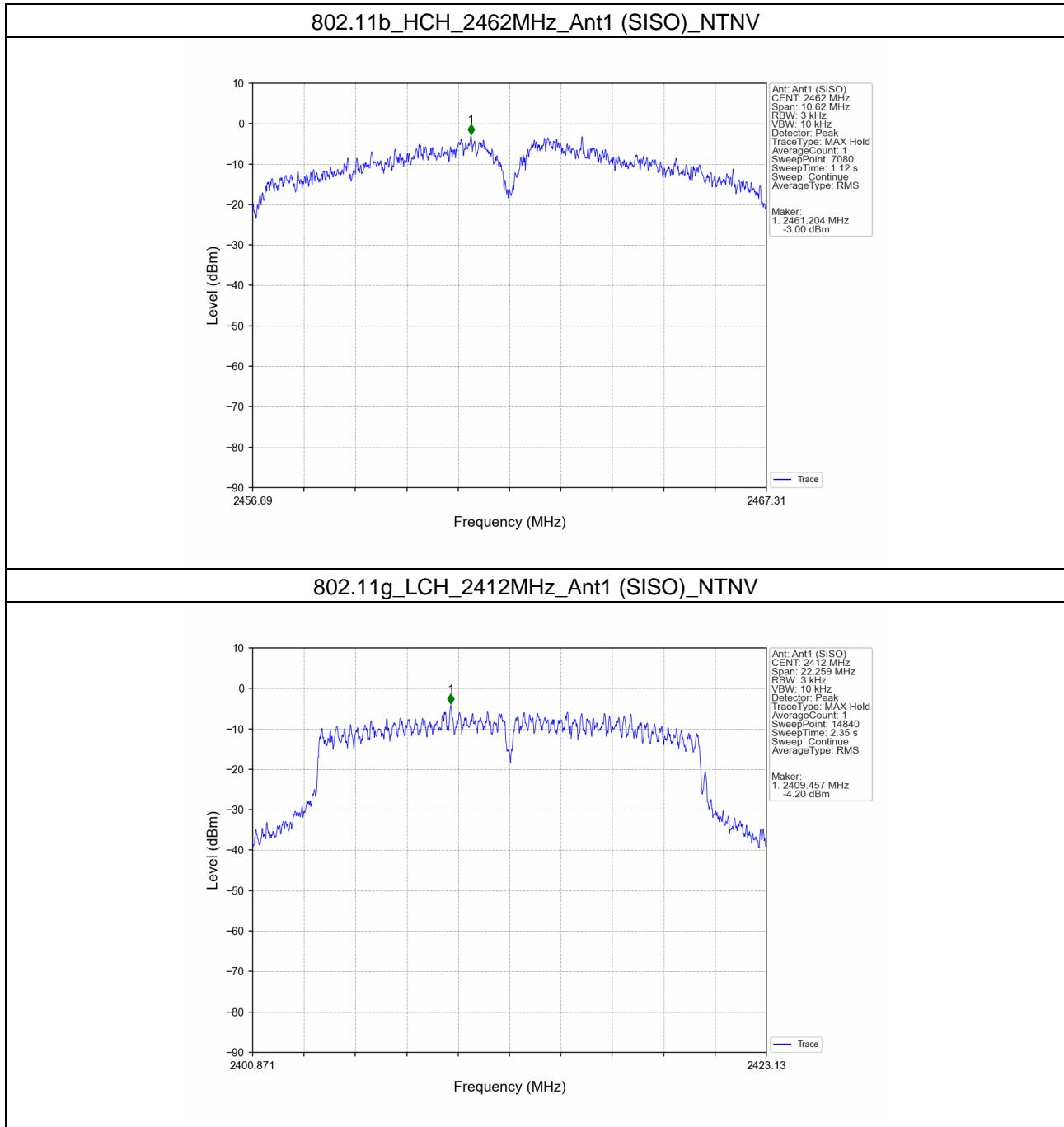
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-1.78	<=8	Pass
		2437	-1.68	<=8	Pass
		2462	-3.00	<=8	Pass
802.11g	SISO	2412	-4.20	<=8	Pass
		2437	-5.28	<=8	Pass
		2462	-5.67	<=8	Pass
802.11n (HT20)	SISO	2412	-5.18	<=8	Pass
		2437	-6.25	<=8	Pass
		2462	-5.76	<=8	Pass

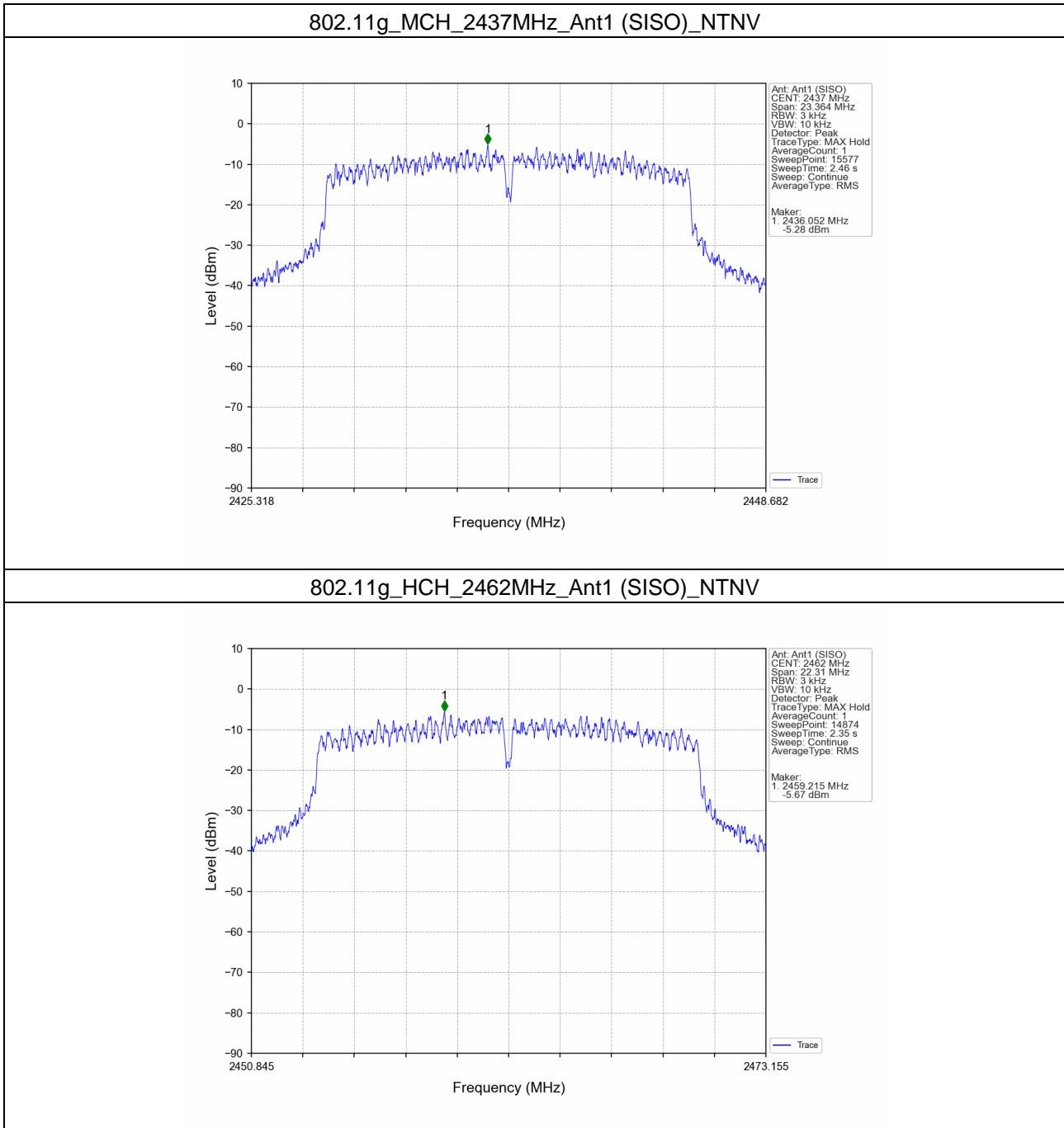
Note1: Antenna Gain: Ant1: -5.55dBi;

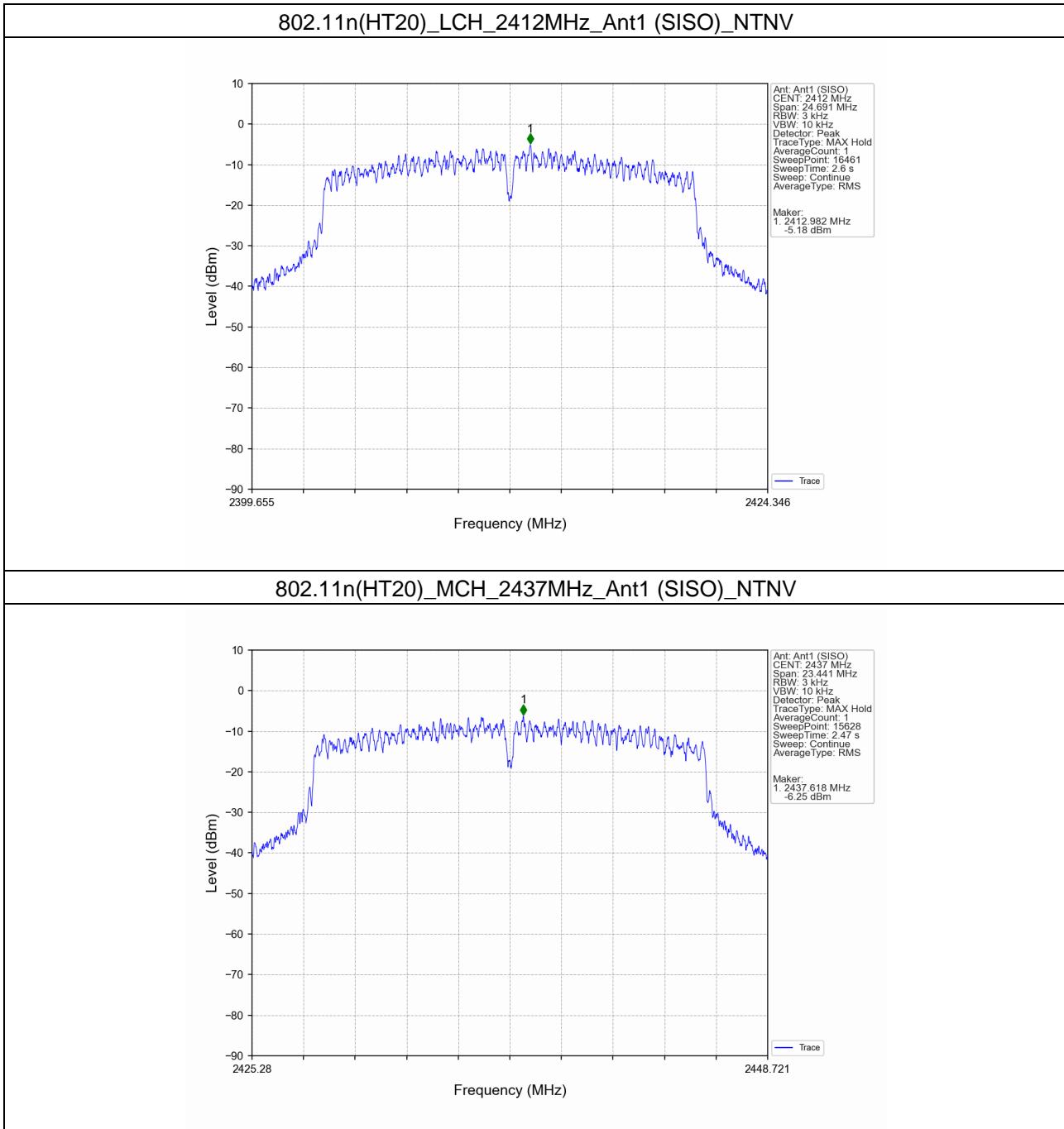
## 4.2 Test Graph

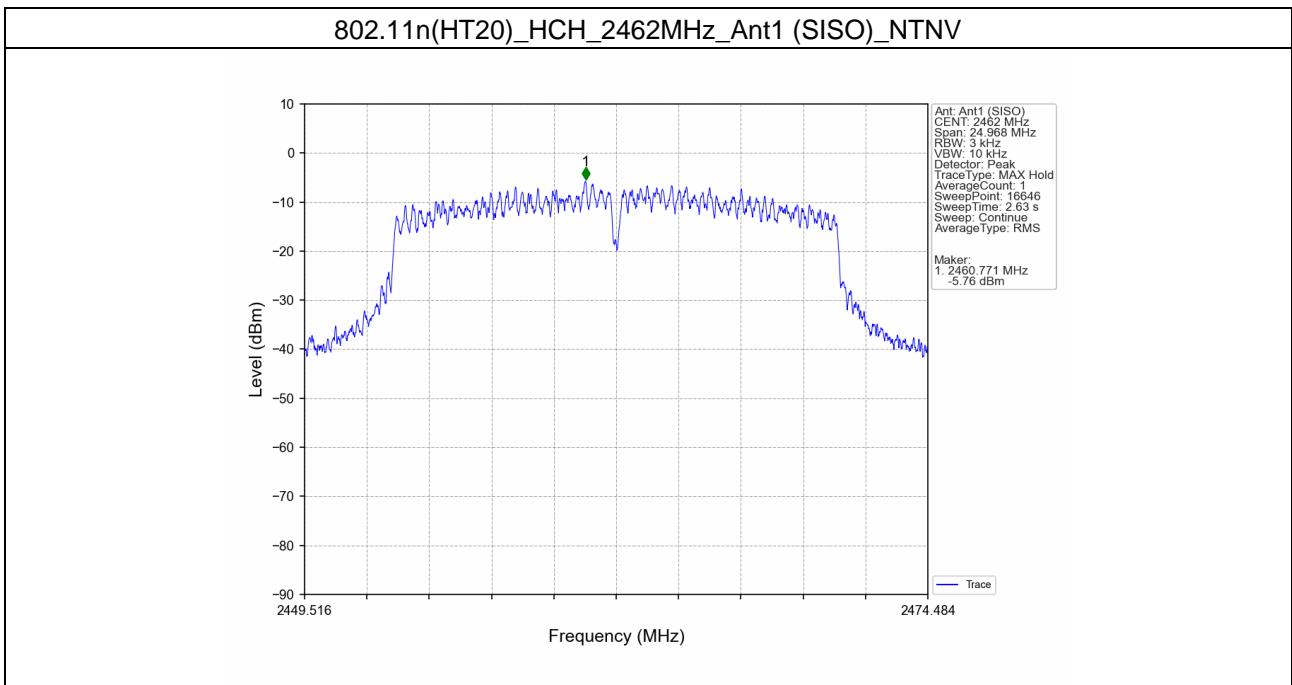
### 4.2.1 PSD











## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	10.14
		2437	1	9.75
		2462	1	9.12
802.11g	SISO	2412	1	7.47
		2437	1	6.61
		2462	1	7.03
802.11n (HT20)	SISO	2412	1	7.59
		2437	1	6.82
		2462	1	7.23

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

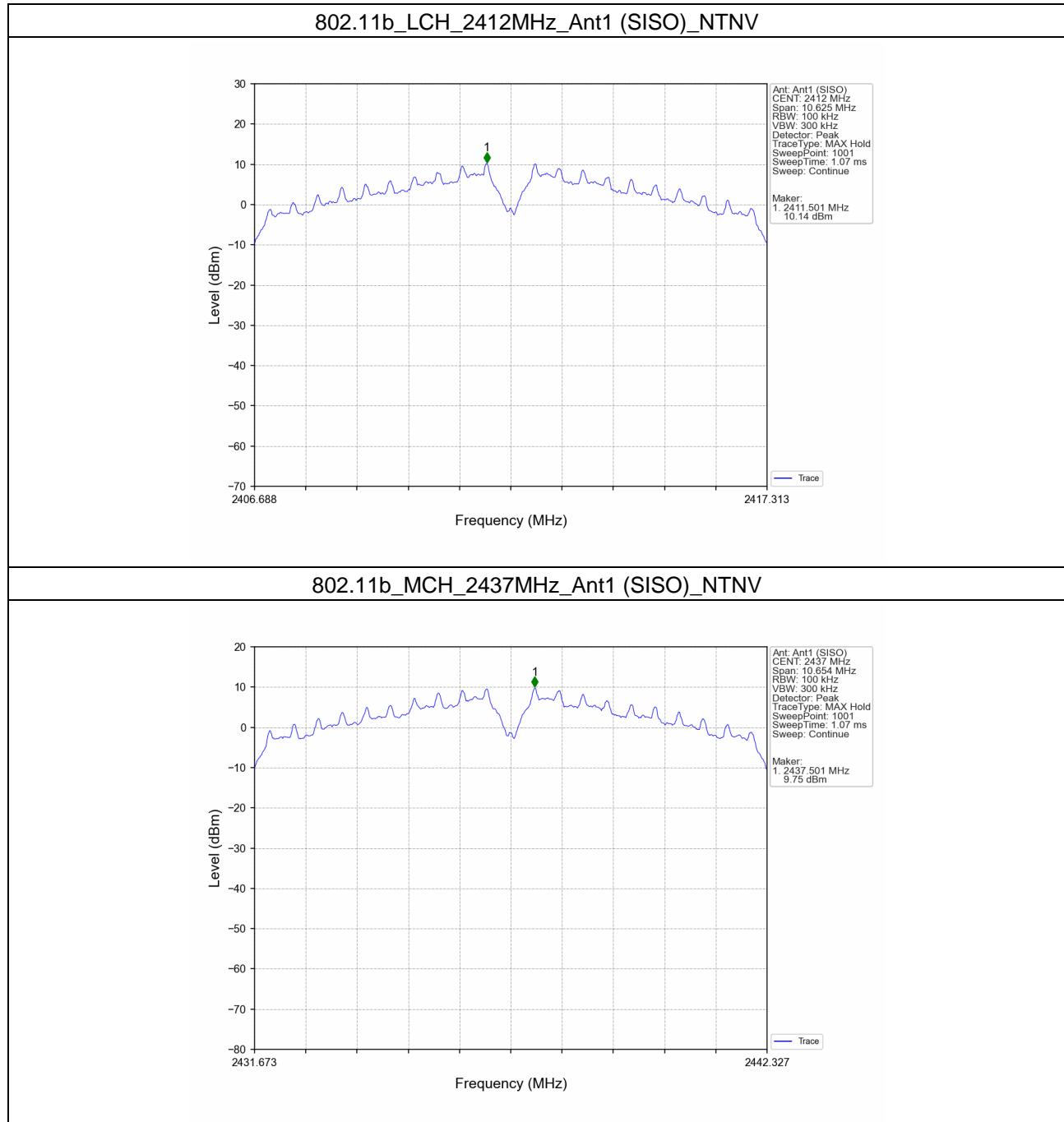
#### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	10.14	-19.86	Pass
		2437	1	10.14	-19.86	Pass
		2462	1	10.14	-19.86	Pass
802.11g	SISO	2412	1	7.47	-22.53	Pass
		2437	1	7.47	-22.53	Pass
		2462	1	7.47	-22.53	Pass
802.11n (HT20)	SISO	2412	1	7.59	-22.41	Pass
		2437	1	7.59	-22.41	Pass
		2462	1	7.59	-22.41	Pass

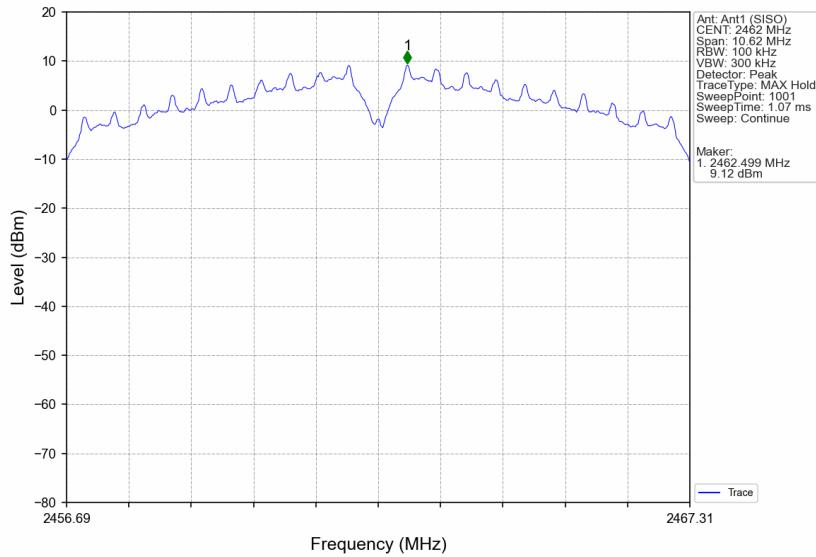
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

## 5.2 Test Graph

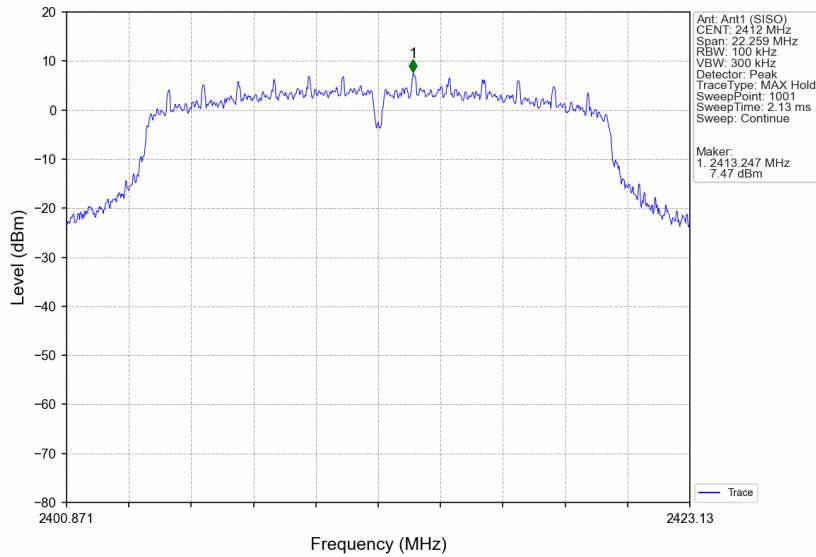
### 5.2.1 Ref



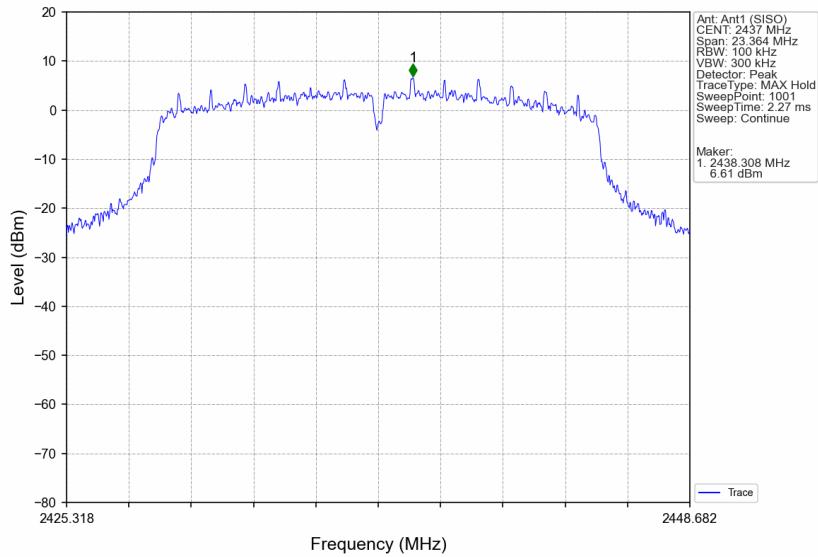
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



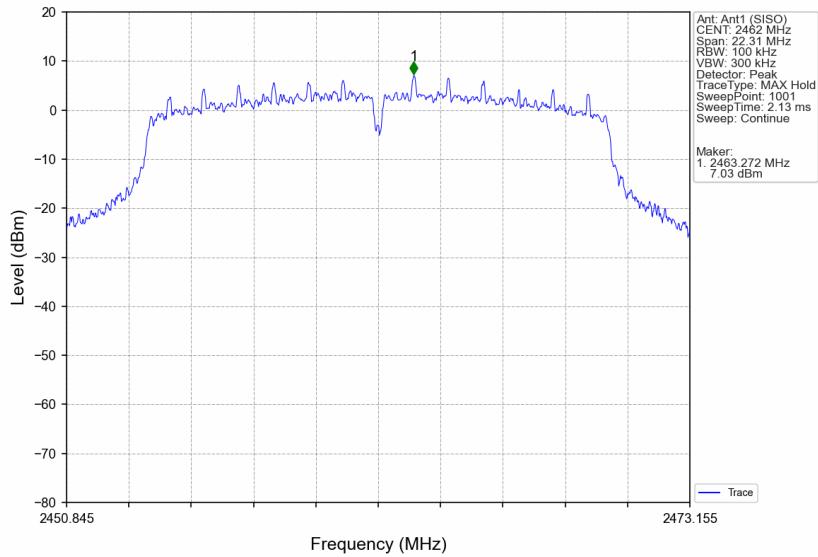
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

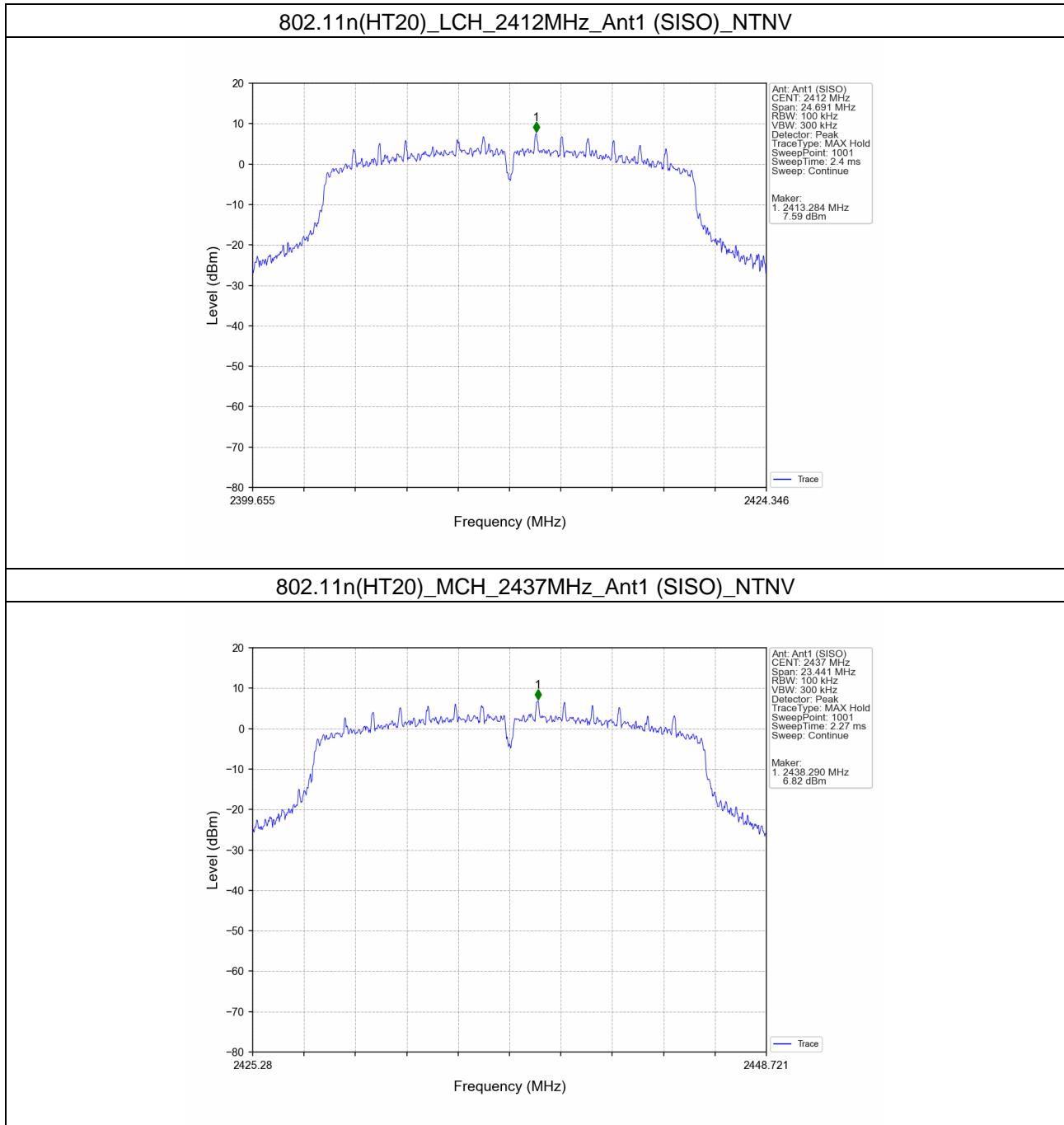


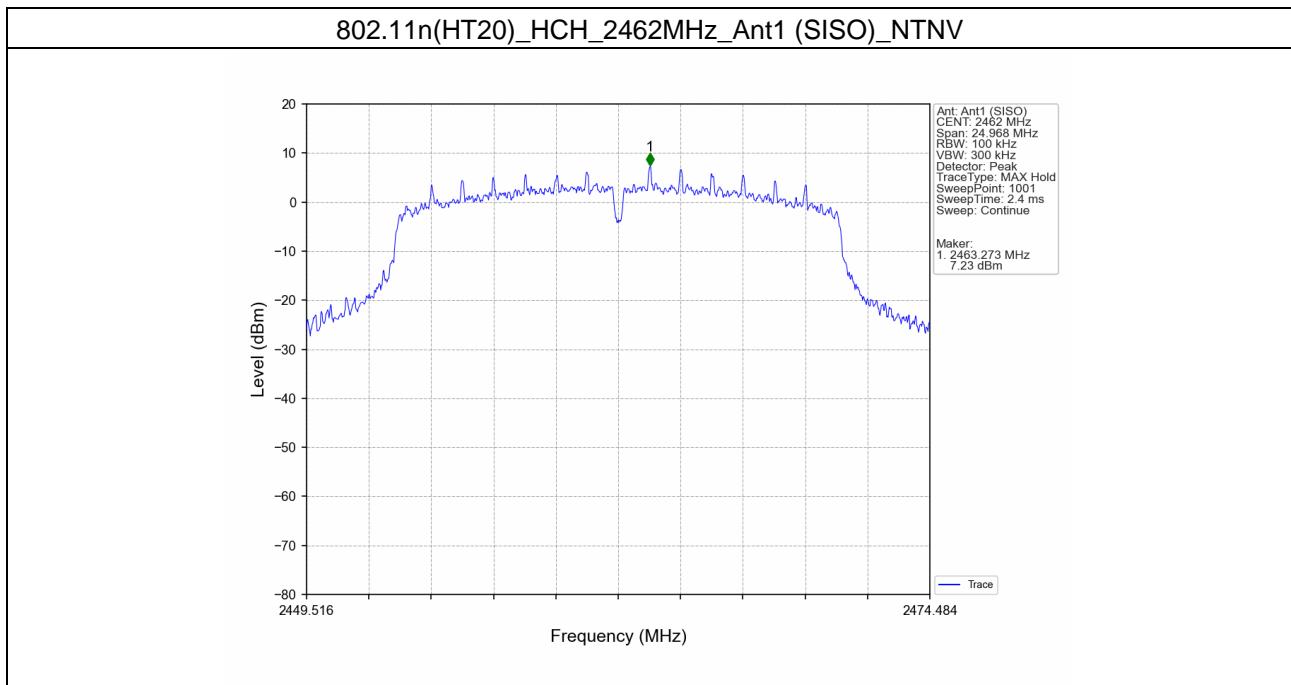
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

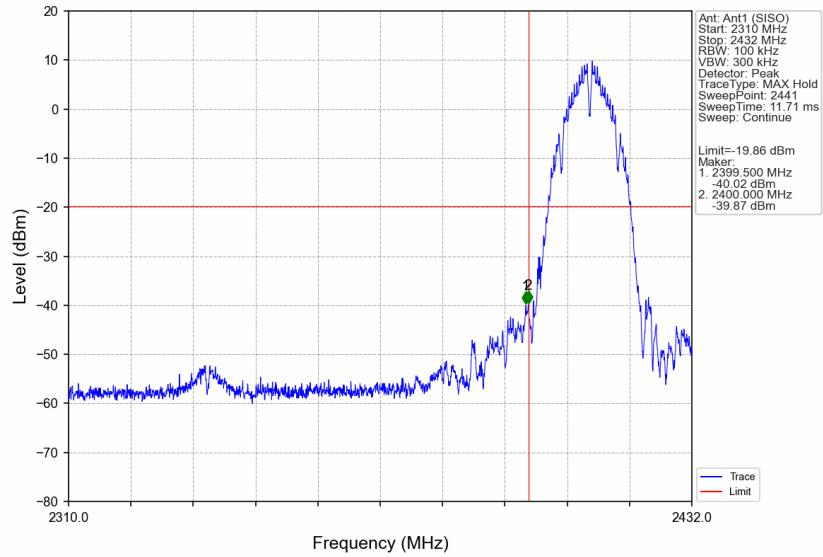




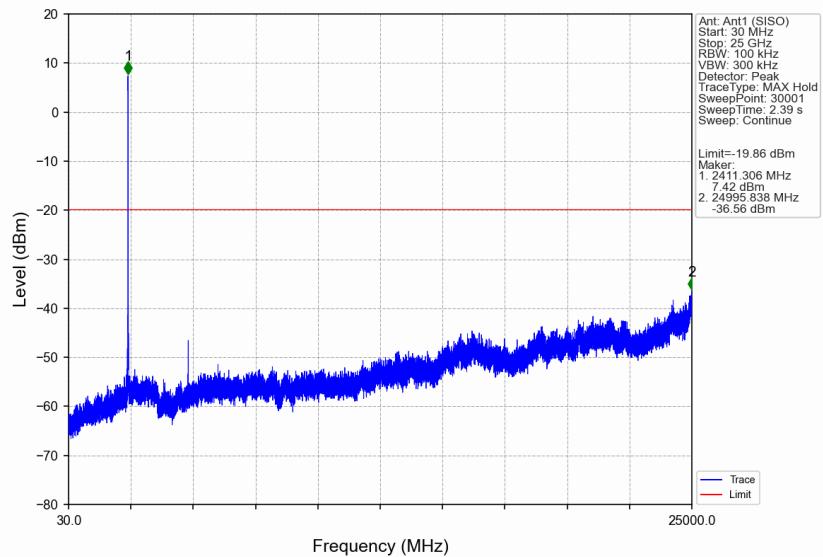


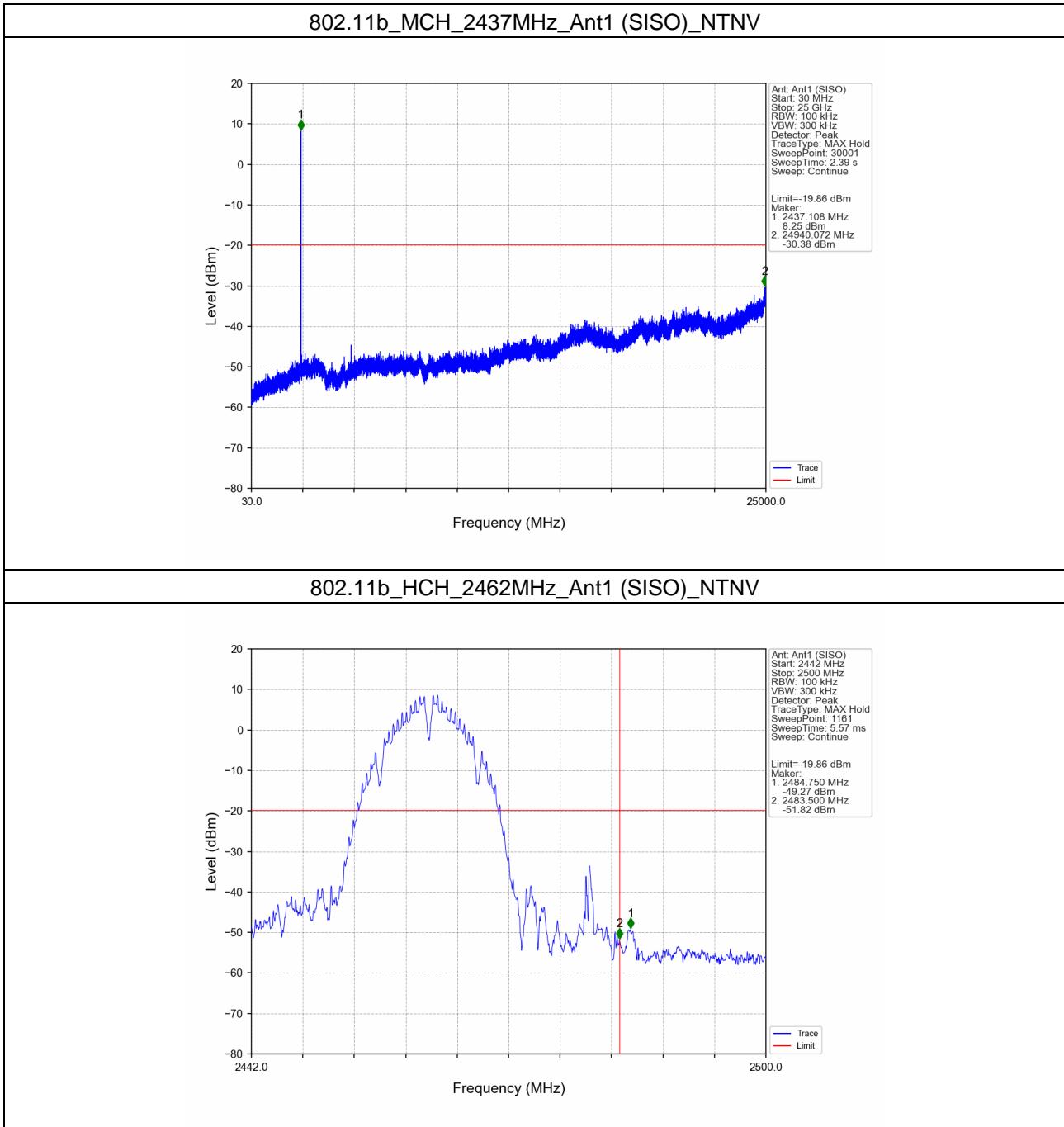
## 5.2.2 CSE

802.11b\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

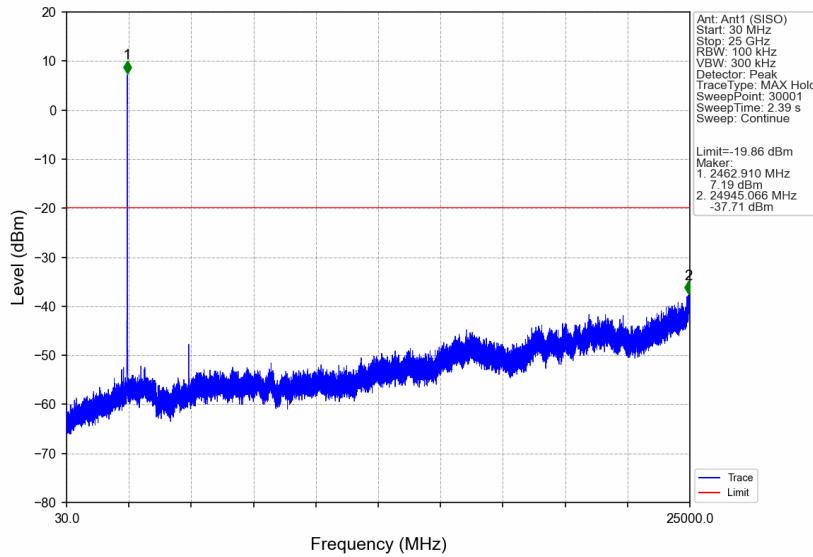


802.11b\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

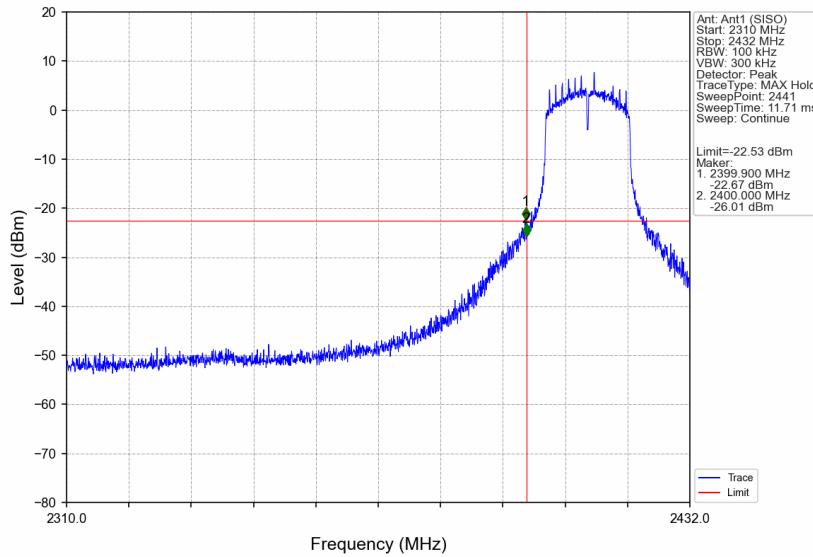




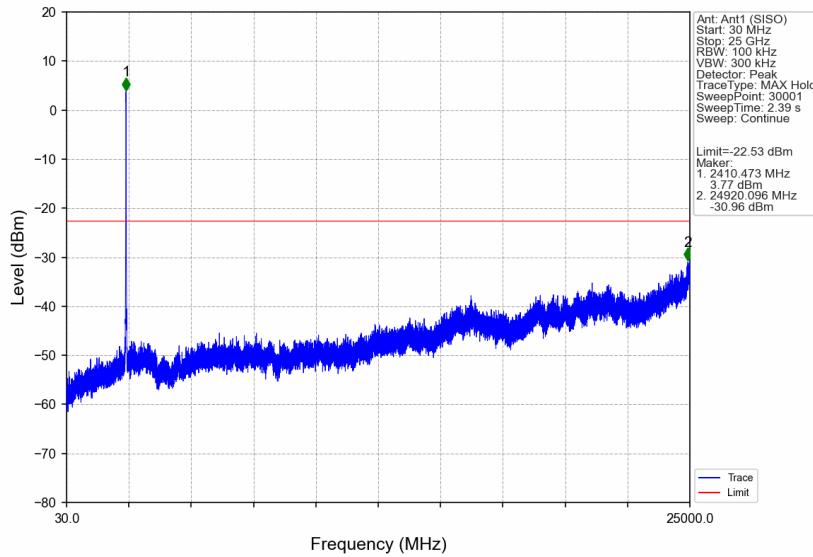
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



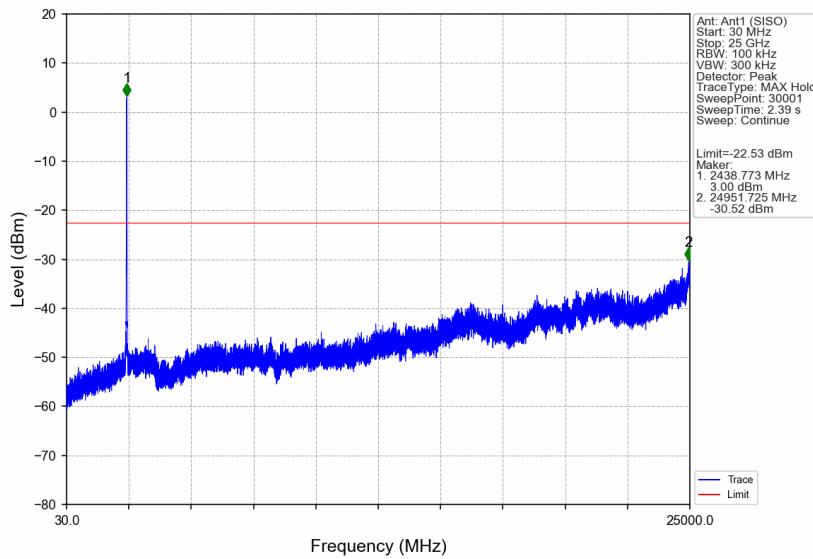
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



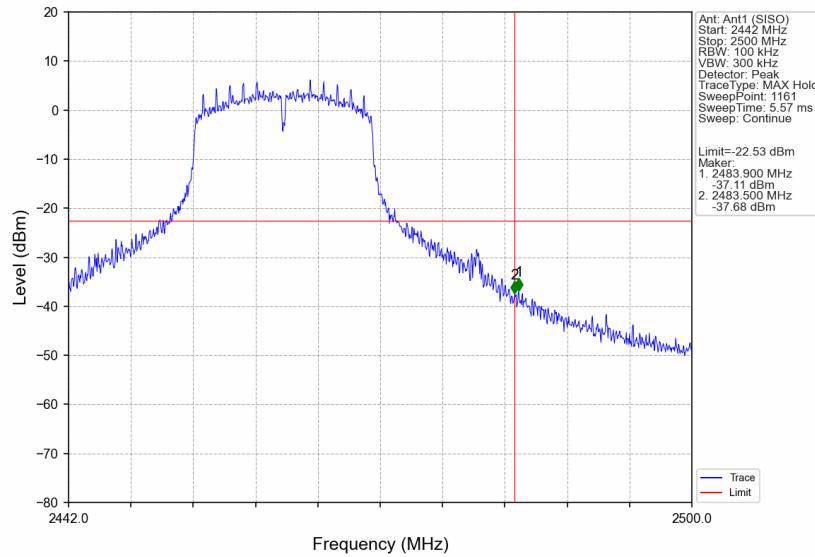
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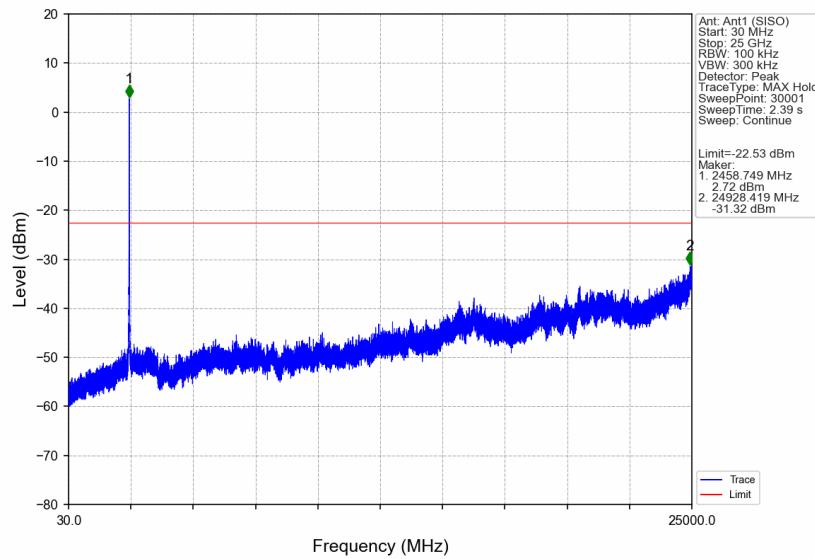
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

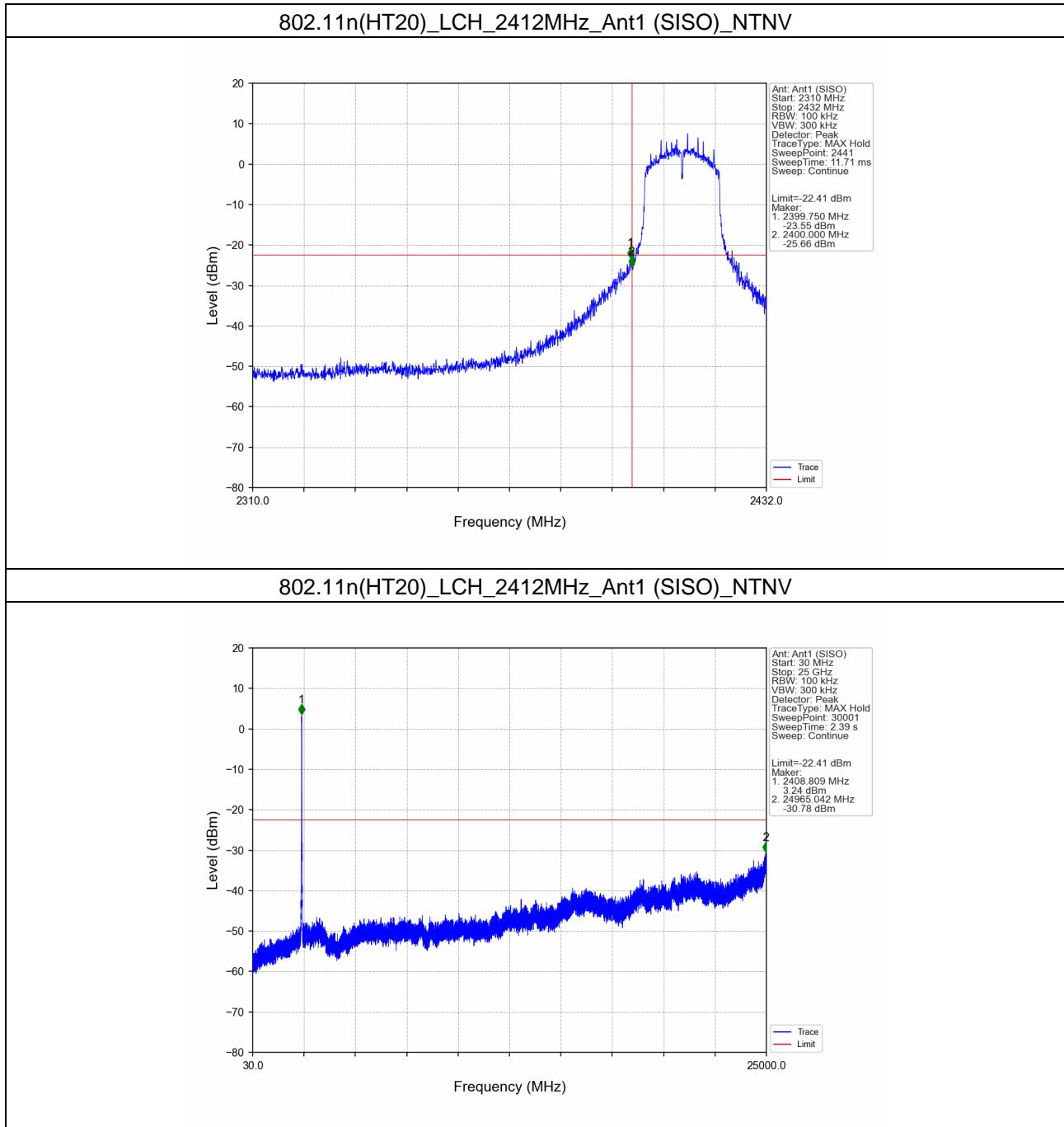


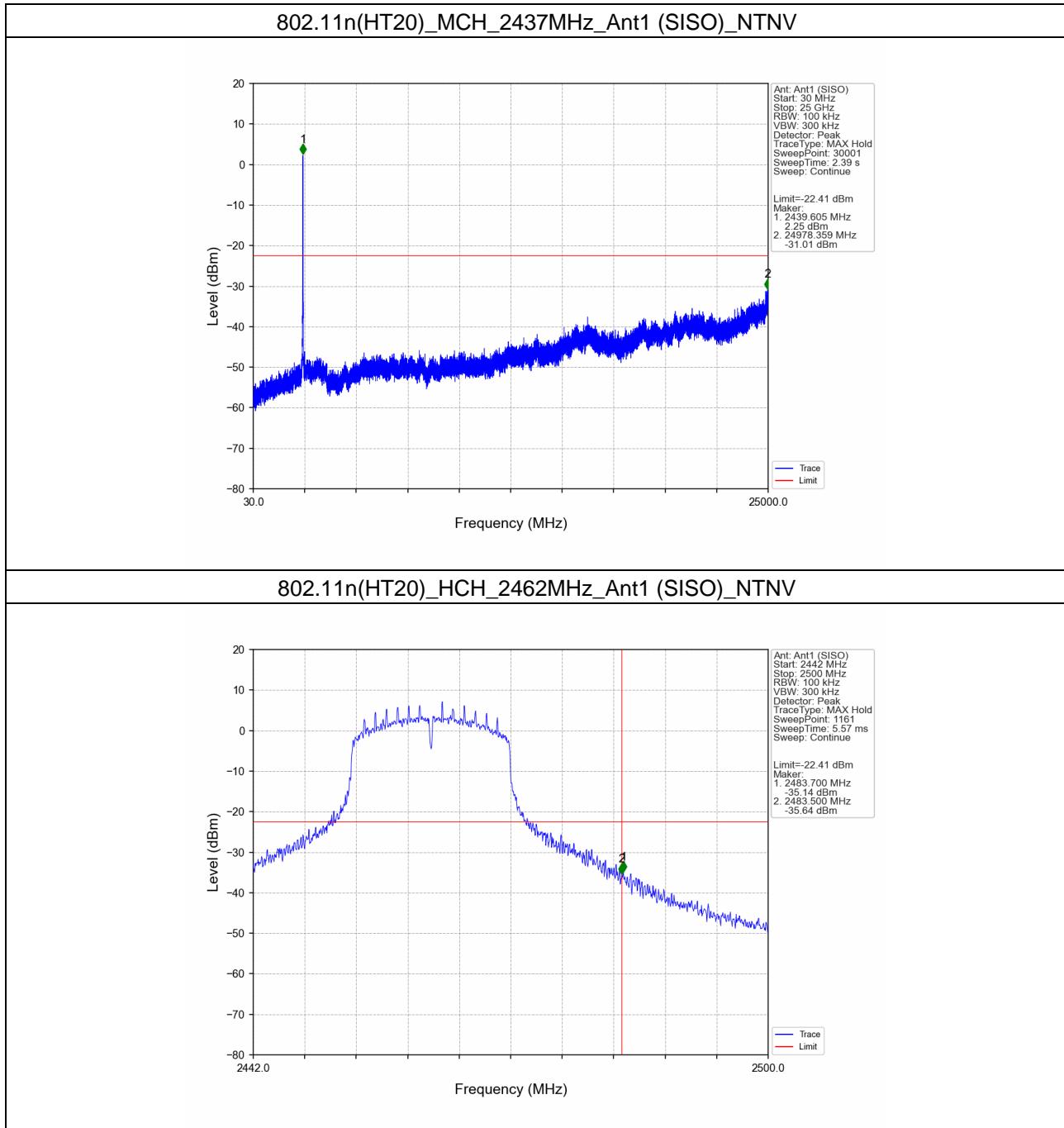
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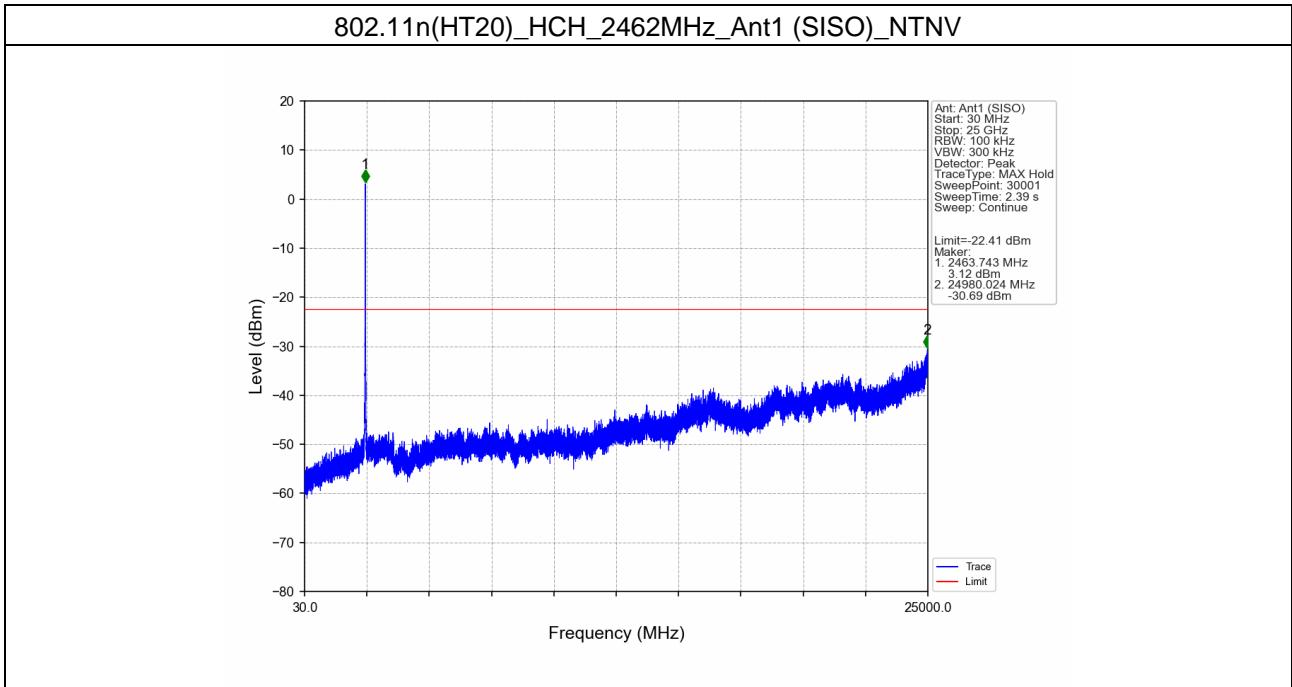


## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV









- End of the Report -