

TEST REPORT

Application No.: SZCR2511005149AT
Applicant: Dreame Trading (Tianjin) Co.,Ltd.
Address of Applicant: Room 2112-1-1South District Finance andTradeCenter No. 6975 Yazhou Road Dongjiang Bonded Port Area, Tianjin, 300463 China
Manufacturer: Dreame Trading (Tianjin) Co.,Ltd.
Address of Manufacturer: Room 2112-1-1, South District, Finance and Trade Center, No.6975 Yazhou Road, Dongjiang Bonded Port Area, Tianjin Pilot Free Trade Zone, Tianjin, China
Factory: Dreame Trading (Tianjin) Co.,Ltd.
Address of Factory: Room 2112-1-1, South District, Finance and Trade Center, No.6975 Yazhou Road, Dongjiang Bonded Port Area, Tianjin Pilot Free Trade Zone, Tianjin, China

Equipment Under Test (EUT):

EUT Name: Dreame NAVO Smart Lock A10
Model No.: B311
Trade Mark: DREAME
FCC ID: 2AXGD-B311
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-11-21
Date of Test: 2025-12-01 to 2025-12-13
Date of Issue: 2025-12-19

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



Keny Xu
EMC Laboratory Manager

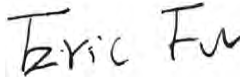
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100514904

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-12-19		Original

Authorized for issue by:				
				
		Martin Li/Project Engineer		
				
		Eric Fu/Reviewer		

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
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10 (2020) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2020) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2020) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable Lithium-ion Battery Pack: 3.6V 9400mAh/33.84Wh charged by Type-C port Model: 909001
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
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; 802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	3.85dBi
Test Software Version	Bouffalo Dev Cube 1.9.0 - BL616/618
Power Setting:	19

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.
RF Cable	SGS	N/A	SEM031-02

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Conducted Peak Output Power	$\pm 0.4\text{dB}$
Minimum 6dB Bandwidth	$\pm 0.3\%$
Power Spectrum Density	$\pm 0.4\text{dB}$
Conducted Band Edges Measurement	$\pm 2.7\text{dB}$
Conducted Spurious Emissions	$\pm 2.7\text{dB}$

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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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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 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

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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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 3.85 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
 Test Engineer: Xing Guo

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

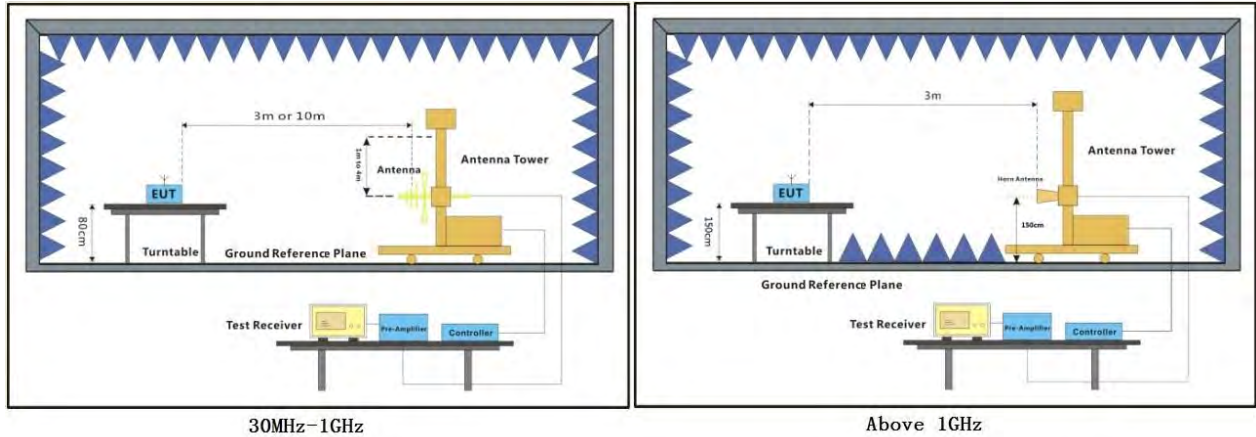
Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz

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.

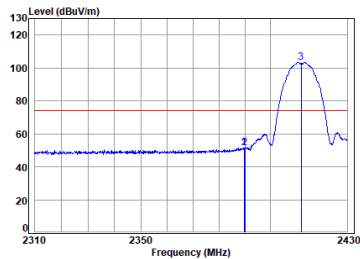
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.

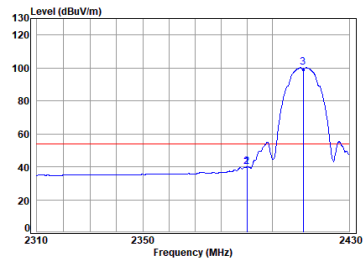
11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.726	6.82	27.46	30.69	48.06	51.65	74.00	-22.35	Peak
2	2390.000	6.83	27.46	30.69	47.94	51.54	74.00	-22.46	Peak
3 pp	2412.000	6.91	27.52	30.69	99.57	103.31	74.00	29.31	Peak

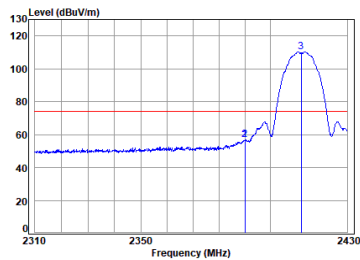
11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	30.69	36.49	40.09	54.00	-13.91	Average
2	2390.000	6.83	27.46	30.69	36.49	40.09	54.00	-13.91	Average
3 pp	2412.000	6.91	27.52	30.69	96.42	100.16	54.00	46.16	Average

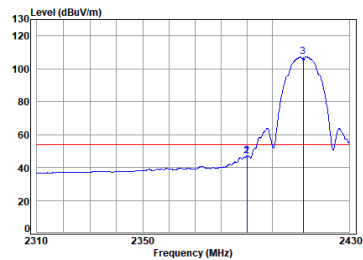
11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	30.69	53.44	57.04	74.00	-16.96	Peak
2	2390.000	6.83	27.46	30.69	53.44	57.04	74.00	-16.96	Peak
3 pp	2412.000	6.91	27.52	30.69	106.65	110.39	74.00	36.39	Peak

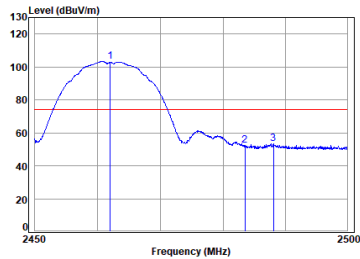
11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	30.69	43.42	47.02	54.00	-6.98	Average
2	2390.000	6.83	27.46	30.69	43.42	47.02	54.00	-6.98	Average
3 pp	2412.000	6.91	27.52	30.69	103.47	107.21	54.00	53.21	Average

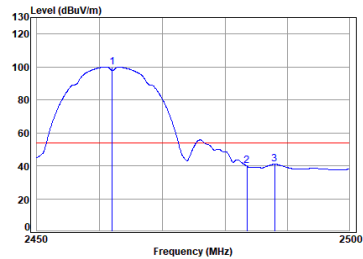
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	30.70	99.00	103.22	74.00	29.22	Peak
2	2483.500	7.40	27.80	30.71	47.68	52.17	74.00	-21.83	Peak
3	2488.109	7.43	27.83	30.71	49.00	53.55	74.00	-20.45	Peak

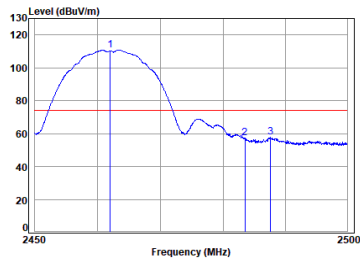
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	30.70	95.82	100.04	54.00	46.04	Average
2	2483.500	7.40	27.80	30.71	35.32	39.81	54.00	-14.19	Average
3	2488.008	7.43	27.83	30.71	36.54	41.09	54.00	-12.91	Average

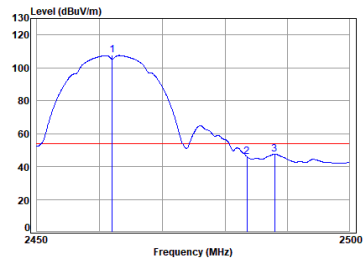
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	30.70	106.46	110.68	74.00	36.68	Peak
2	2483.500	7.40	27.80	30.71	52.95	57.44	74.00	-16.56	Peak
3	2487.606	7.43	27.83	30.71	53.17	57.72	74.00	-16.28	Peak

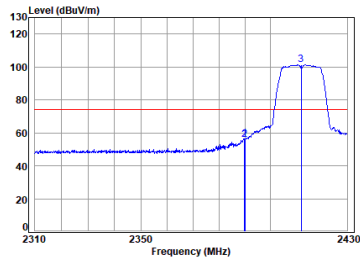
11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	30.70	103.29	107.51	54.00	53.51	Average
2	2483.500	7.40	27.80	30.71	41.65	46.14	54.00	-7.86	Average
3	2488.008	7.43	27.83	30.71	43.07	47.62	54.00	-6.38	Average

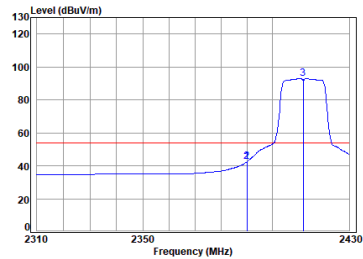
11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	6.83	27.46	30.69	52.70	56.30	74.00	-17.70	Peak
2	2390.000	6.83	27.46	30.69	52.21	55.81	74.00	-18.19	Peak
3 pp	2412.000	6.91	27.52	30.69	97.46	101.20	74.00	27.20	Peak

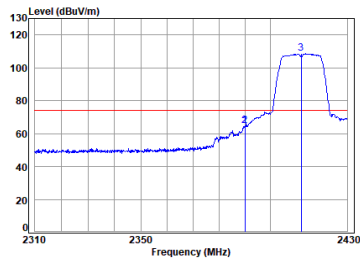
11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	30.69	38.79	42.39	54.00	-11.61	Average
2	2390.000	6.83	27.46	30.69	38.79	42.39	54.00	-11.61	Average
3 pp	2412.000	6.91	27.52	30.69	89.24	92.98	54.00	38.98	Average

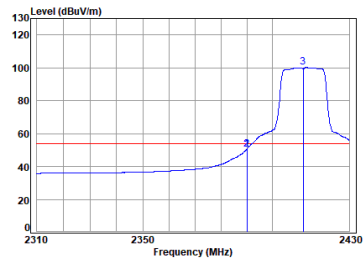
11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	30.69	60.93	64.53	74.00	-9.47	Peak
2	2390.000	6.83	27.46	30.69	60.93	64.53	74.00	-9.47	Peak
3 pp	2412.000	6.91	27.52	30.69	104.76	108.50	74.00	34.50	Peak

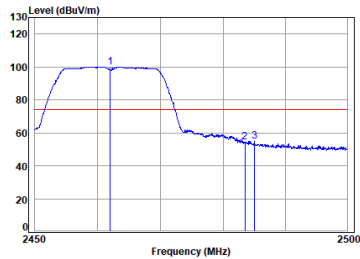
11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	30.69	46.93	50.53	54.00	-3.47	Average
2	2390.000	6.83	27.46	30.69	46.93	50.53	54.00	-3.47	Average
3 pp	2412.000	6.91	27.52	30.69	96.49	100.23	54.00	46.23	Average

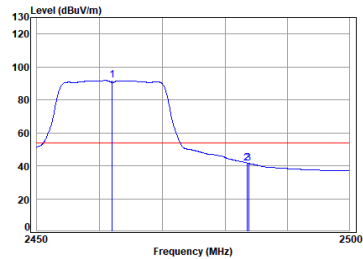
11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	30.70	95.75	99.97	74.00	25.97	Peak
2	2483.500	7.40	27.80	30.71	49.96	54.45	74.00	-19.55	Peak
3	2485.044	7.41	27.81	30.71	50.49	55.00	74.00	-19.00	Peak

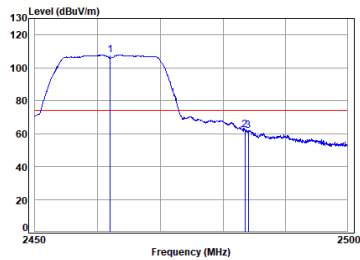
11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	30.70	87.52	91.74	54.00	37.74	Average
2	2483.500	7.40	27.80	30.71	37.26	41.75	54.00	-12.25	Average
3	2483.790	7.40	27.80	30.71	36.95	41.44	54.00	-12.56	Average

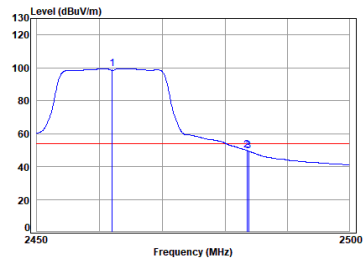
11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	30.70	103.50	107.72	74.00	33.72	Peak
2	2483.500	7.40	27.80	30.71	57.76	62.25	74.00	-11.75	Peak
3	2484.041	7.40	27.80	30.71	57.21	61.70	74.00	-12.30	Peak

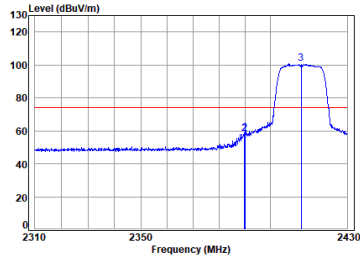
11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	30.70	95.27	99.49	54.00	45.49	Average
2	2483.500	7.40	27.80	30.71	45.25	49.74	54.00	-4.26	Average
3	2483.790	7.40	27.80	30.71	44.78	49.27	54.00	-4.73	Average

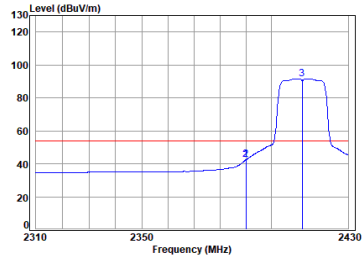
11n_HT(20M)_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	6.83	27.46	30.69	55.24	58.84	74.00	-15.16	Peak
2	2390.000	6.83	27.46	30.69	54.53	58.13	74.00	-15.87	Peak
3 pp	2412.000	6.91	27.52	30.69	96.95	100.69	74.00	26.69	Peak

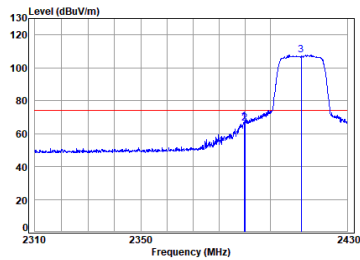
11n_HT(20M)_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	30.69	38.80	42.40	54.00	-11.60	Average
2	2390.000	6.83	27.46	30.69	38.80	42.40	54.00	-11.60	Average
3 pp	2412.000	6.91	27.52	30.69	87.88	91.62	54.00	37.62	Average

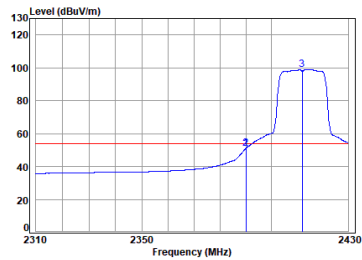
11n_HT(20M)_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.726	6.82	27.46	30.69	63.72	67.31	74.00	-6.69	Peak
2	2390.000	6.83	27.46	30.69	62.73	66.33	74.00	-7.67	Peak
3 pp	2412.000	6.91	27.52	30.69	104.19	107.93	74.00	33.93	Peak

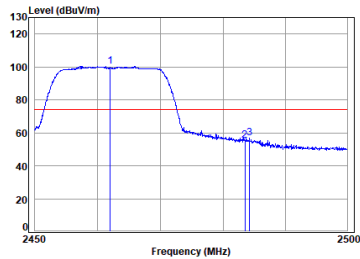
11n_HT(20M)_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	30.69	47.31	50.91	54.00	-3.09	Average
2	2390.000	6.83	27.46	30.69	47.31	50.91	54.00	-3.09	Average
3 pp	2412.000	6.91	27.52	30.69	95.18	98.92	54.00	44.92	Average

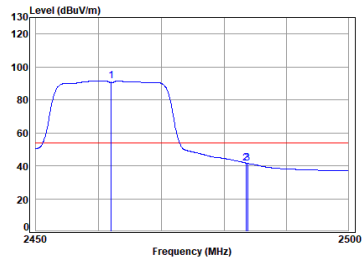
11n_HT(20M)_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	30.70	96.28	100.50	74.00	26.50	Peak
2	2483.500	7.40	27.80	30.71	50.82	55.31	74.00	-18.69	Peak
3	2484.241	7.40	27.81	30.71	52.38	56.88	74.00	-17.12	Peak

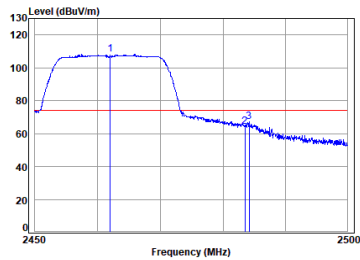
11n_HT(20M)_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	30.70	87.39	91.61	54.00	37.61	Average
2	2483.500	7.40	27.80	30.71	37.21	41.70	54.00	-12.30	Average
3	2483.790	7.40	27.80	30.71	36.95	41.44	54.00	-12.56	Average

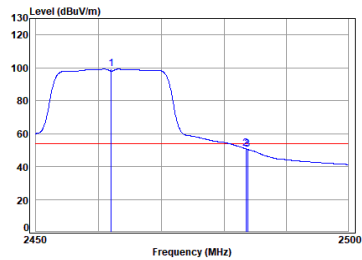
11n_HT(20M)_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	30.70	103.85	108.07	74.00	34.07	Peak
2	2483.500	7.40	27.80	30.71	59.82	64.31	74.00	-9.69	Peak
3	2484.191	7.40	27.81	30.71	62.58	67.08	74.00	-6.92	Peak

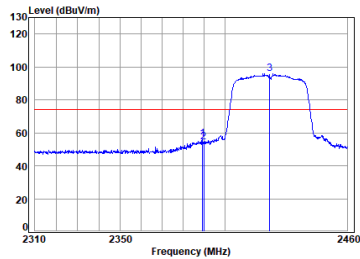
11n_HT(20M)_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	30.70	94.94	99.16	54.00	45.16	Average
2	2483.500	7.40	27.80	30.71	46.28	50.77	54.00	-3.23	Average
3	2483.790	7.40	27.80	30.71	45.91	50.40	54.00	-3.60	Average

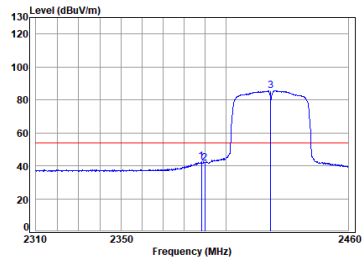
11n_HT(40M)_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.376	6.82	27.46	30.69	52.78	56.37	74.00	-17.63	Peak
2	2390.000	6.83	27.46	30.69	50.53	54.13	74.00	-19.87	Peak
3 pp	2422.000	6.98	27.54	30.69	92.01	95.84	74.00	21.84	Peak

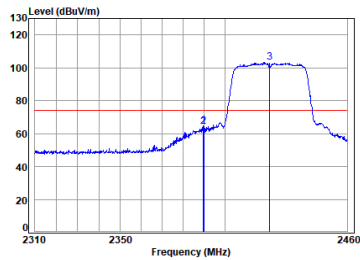
11n_HT(40M)_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.324	6.82	27.45	30.69	39.03	42.61	54.00	-11.39	Average
2	2390.000	6.83	27.46	30.69	38.05	41.65	54.00	-12.35	Average
3 pp	2422.000	6.98	27.54	30.69	61.61	65.44	54.00	11.44	Average

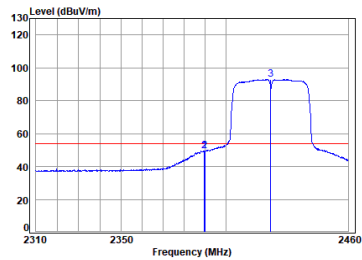
11n_HT(40M)_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	6.83	27.46	30.69	60.99	64.59	74.00	-9.41	Peak
2	2390.000	6.83	27.46	30.69	60.48	64.08	74.00	-9.92	Peak
3 pp	2422.000	6.98	27.54	30.69	99.59	103.42	74.00	29.42	Peak

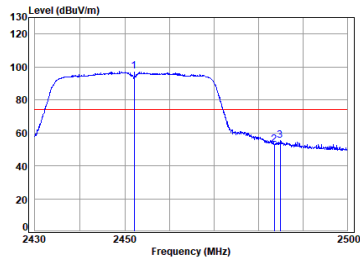
11n_HT(40M)_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.677	6.82	27.46	30.69	45.97	49.56	54.00	-4.44	Average
2	2390.000	6.83	27.46	30.69	45.84	49.44	54.00	-4.56	Average
3 pp	2422.000	6.98	27.54	30.69	89.08	92.91	54.00	38.91	Average

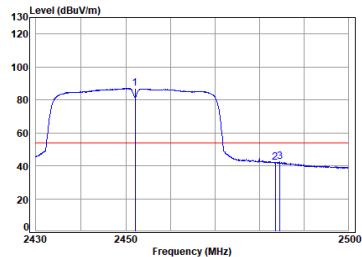
11n_HT(40M)_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.19	27.61	30.70	93.08	97.18	74.00	23.18	Peak
2	2483.500	7.40	27.80	30.71	48.21	52.70	74.00	-21.30	Peak
3	2484.852	7.41	27.81	30.71	51.03	55.54	74.00	-18.46	Peak

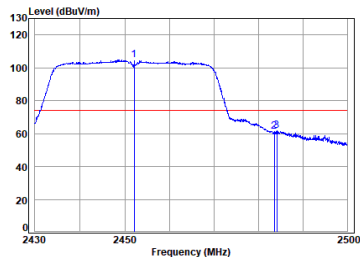
11n_HT(40M)_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.19	27.61	30.70	82.92	87.02	54.00	33.02	Average
2	2483.500	7.40	27.80	30.71	37.47	41.96	54.00	-12.04	Average
3	2484.500	7.41	27.81	30.71	37.75	42.26	54.00	-11.74	Average

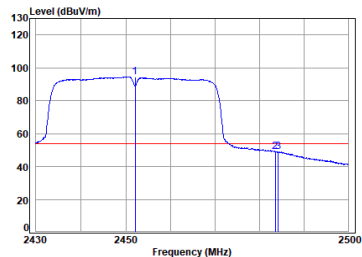
11n_HT(40M)_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.19	27.61	30.70	100.76	104.86	74.00	30.86	Peak
2	2483.500	7.40	27.80	30.71	56.90	61.39	74.00	-12.61	Peak
3	2484.076	7.40	27.80	30.71	57.50	61.99	74.00	-12.01	Peak

11n_HT(40M)_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.19	27.61	30.70	90.46	94.56	54.00	40.56	Average
2	2483.500	7.40	27.80	30.71	44.48	48.97	54.00	-5.03	Average
3	2484.147	7.40	27.80	30.71	44.51	49.00	54.00	-5.00	Average

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
 Test Engineer: Mason Wu

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

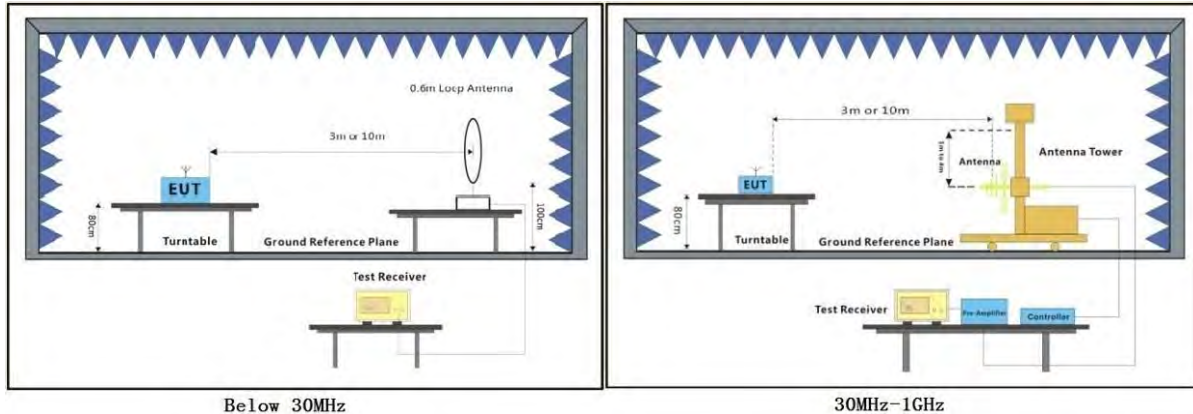
Operating Environment:

Temperature: 23.3 °C Humidity: 47.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



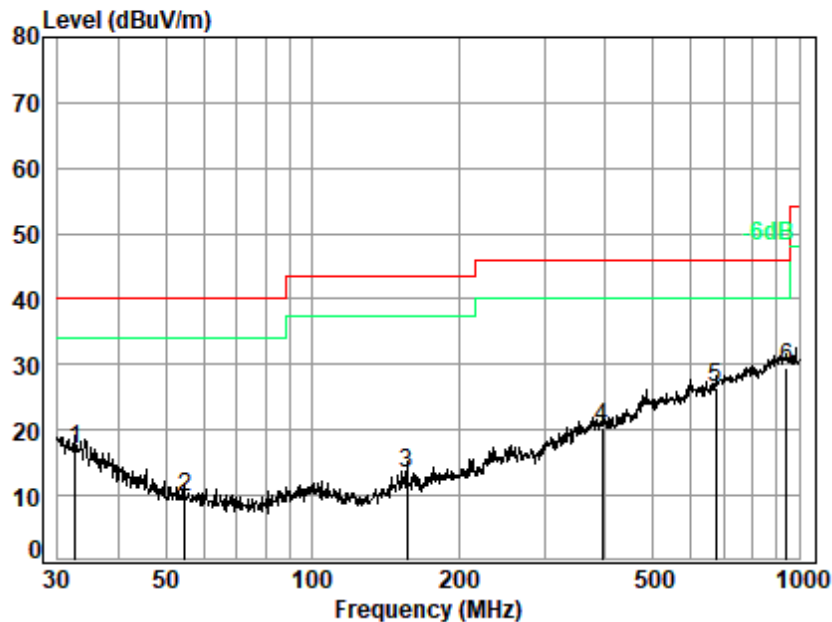
7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

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

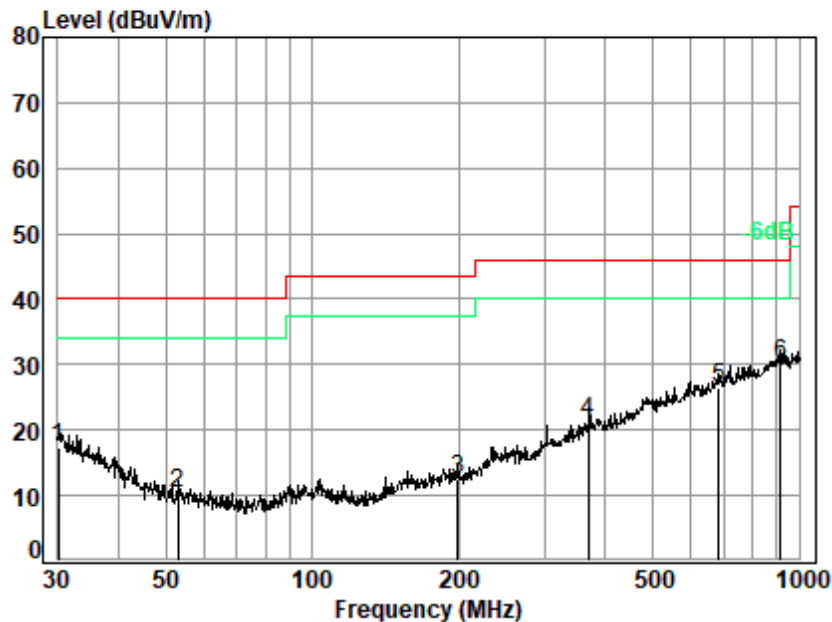
Test Mode: 03; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05149AT/05150AT
Test Mode: 03

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.520	20.07	0.76	27.65	23.95	17.13	40.00	-22.87 QP
2	54.643	12.02	0.91	27.63	24.31	9.61	40.00	-30.39 QP
3	156.458	13.60	1.53	27.73	25.94	13.34	43.50	-30.16 QP
4	393.472	20.72	2.47	27.73	24.86	20.32	46.00	-25.68 QP
5	672.845	25.64	3.33	27.90	25.35	26.42	46.00	-19.58 QP
6 q	942.131	28.19	4.06	26.72	24.06	29.59	46.00	-16.41 QP

Test Mode: 03; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05149AT/05150AT
Test Mode: 03

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.105	21.15	0.74	27.65	23.23	17.47	40.00	-22.53 QP
2	52.945	12.30	0.91	27.63	24.65	10.23	40.00	-29.77 QP
3	199.286	14.08	1.70	27.80	24.48	12.46	43.50	-31.04 QP
4	369.405	20.41	2.38	27.68	26.22	21.33	46.00	-24.67 QP
5	684.745	25.75	3.37	27.87	25.21	26.46	46.00	-19.54 QP
6 q	916.069	28.06	4.01	26.87	24.98	30.18	46.00	-15.82 QP

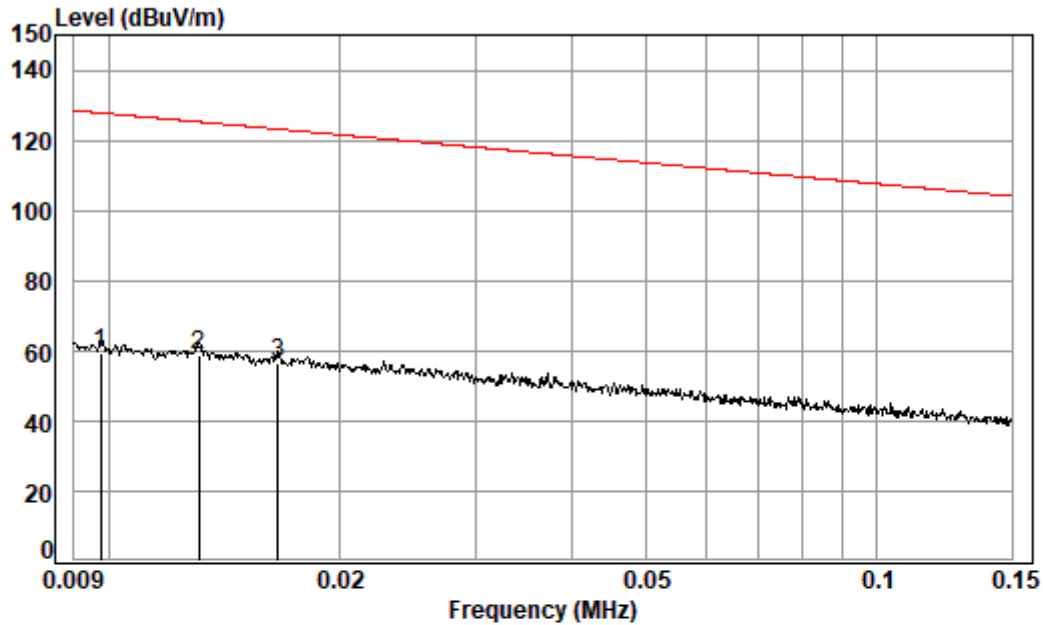
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Test Mode: 03; Polarity: coaxial



Condition: 3m

Job No. : 05149AT

Test Mode: 03

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.010	71.92	18.41	0.10	31.16	59.27	127.79	-68.52	Average
2	0.013	73.04	16.83	0.11	31.36	58.62	125.25	-66.63	Average
3 pp	0.017	72.81	15.25	0.11	31.53	56.64	123.18	-66.54	Average



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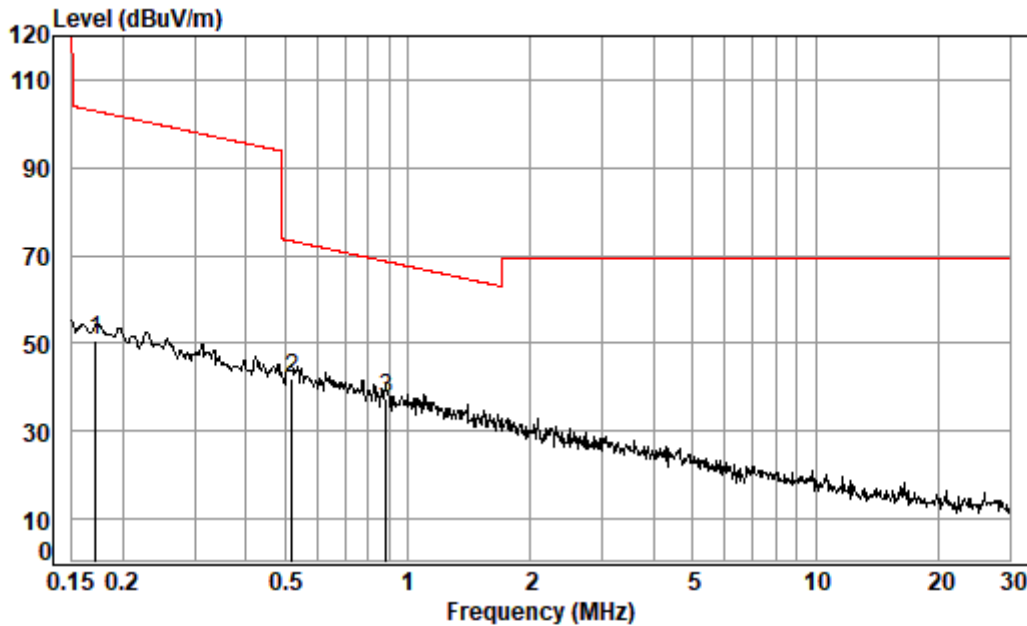
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Test Mode: 03; Polarity: coaxial



Condition: 3m

Job No. : 05149AT

Test Mode: 03

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 av	0.171	72.54	10.48	0.33	32.59	50.76	102.93	-52.17	Average
2	0.521	63.74	10.37	0.38	32.69	41.80	73.26	-31.46	QP
3 pp	0.885	59.34	10.35	0.43	32.55	37.57	68.63	-31.06	QP

Frequency (MHz)	Level @ 3m (dBuV/m)	Factor (dB)	Level @ 300m (dBuV/m)	Level @ 30m (dBuV/m)	Limit @ 300m (dBuV/m)	Limit @ 30m (dBuV/m)	Margin (dB)
0.01	59.27	80.00	-20.73	-	47.60	-	-68.33
0.013	58.62	80.00	-21.38	-	45.33	-	-66.71
0.017	56.64	80.00	-23.36	-	43.00	-	-66.36
0.171	50.76	80.00	-29.24	-	22.94	-	-52.18
0.521	41.80	40.00	-	1.80	-	33.27	-31.47
0.885	37.57	40.00	-	-2.43	-	28.67	-31.10

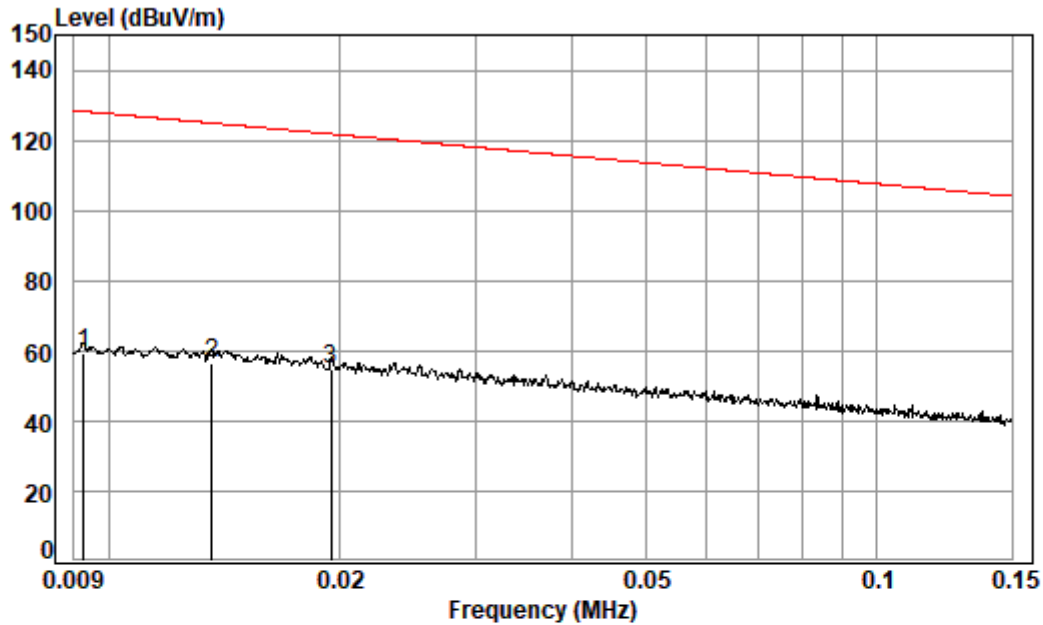
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Test Mode: 03; Polarity: coplanar



Condition: 3m

Job No. : 05149AT

Test Mode: 03

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	71.46	18.87	0.10	31.12	59.31	128.26	-68.95	Average
2	0.014	71.39	16.59	0.11	31.39	56.70	124.91	-68.21	Average
3 pp	0.019	72.05	13.99	0.11	31.64	54.51	121.81	-67.30	Average



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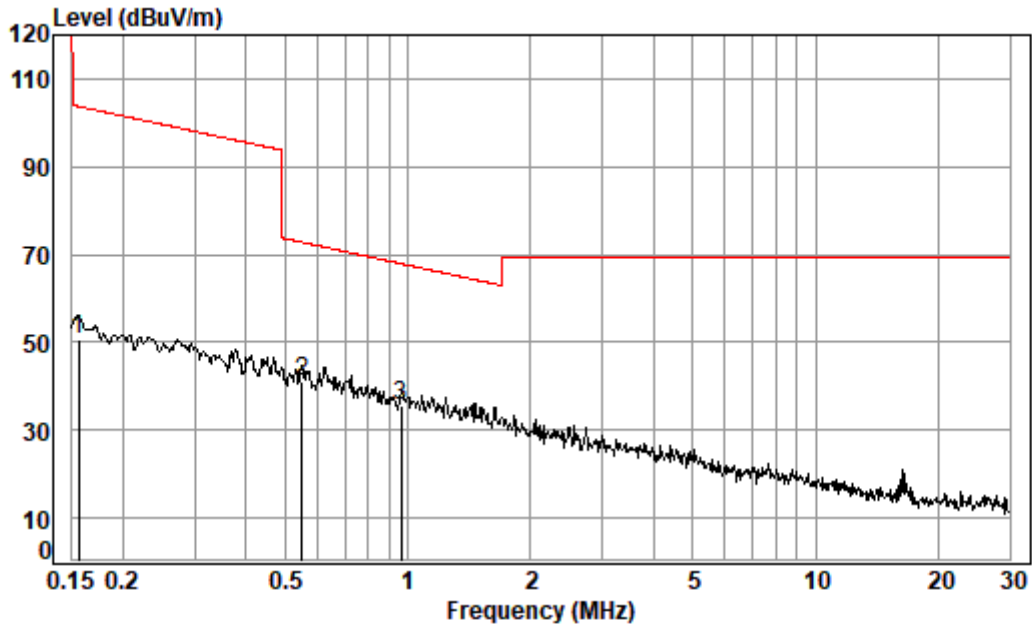
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Test Mode: 03; Polarity: coplanar



Condition: 3m

Job No. : 05149AT

Test Mode: 03

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.156	72.30	10.50	0.33	32.62	50.51	103.75	Average
2	pp	0.549	63.09	10.37	0.38	32.68	41.16	72.80	QP
3		0.963	57.43	10.35	0.44	32.51	35.71	67.89	QP

Frequency (MHz)	Level @ 3m (dBuV/m)	Factor (dB)	Level @ 300m (dBuV/m)	Level @ 30m (dBuV/m)	Limit @ 300m (dBuV/m)	Limit @ 30m (dBuV/m)	Margin (dB)
0.009	59.31	80.00	-20.69	-	48.52	-	-69.21
0.014	56.70	80.00	-23.30	-	44.68	-	-67.98
0.019	54.51	80.00	-25.49	-	42.03	-	-67.52
0.156	50.51	80.00	-29.49	-	23.74	-	-53.23
0.549	41.16	40.00	-	1.16	-	32.81	-31.65
0.963	35.71	40.00	-	-4.29	-	27.93	-32.22

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
 Test Engineer: Xing Guo

Limit:

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

7.3.1 E.U.T. Operation

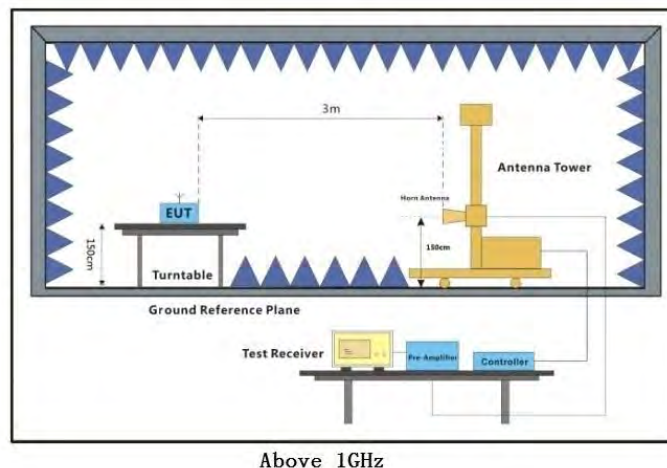
Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



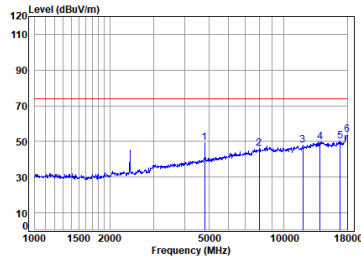
7.3.4 Measurement Procedure and Data

- 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 anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters for frequency above 1GHz, and 1 meter for frequency above 18GHz 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.

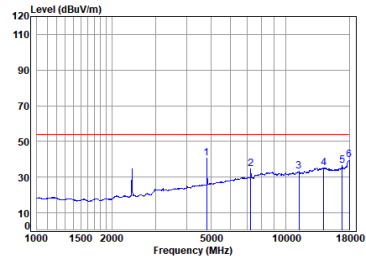
11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4818.016	8.92	31.97	55.42	63.87	49.34	74.00	-24.66	Peak
2	7966.832	11.47	37.73	56.51	53.40	46.09	74.00	-27.91	Peak
3	11940.540	14.52	39.74	55.22	48.69	47.73	74.00	-26.27	Peak
4	13997.930	16.53	39.90	54.50	47.74	49.67	74.00	-24.33	Peak
5	16891.040	19.64	39.60	54.09	45.01	50.16	74.00	-23.84	Peak
6	pp18000.000	18.64	43.80	54.20	45.40	53.64	74.00	-20.36	Peak

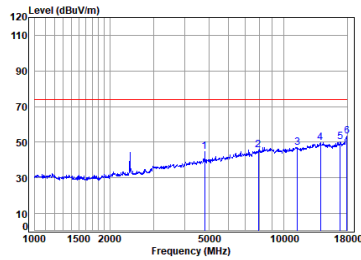
11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 4818.016	8.92	31.97	55.42	55.17	40.64	54.00	-13.36	Average
2	7242.052	11.10	36.60	56.72	43.59	34.57	54.00	-19.43	Average
3	11302.480	14.39	39.70	55.40	34.73	33.42	54.00	-20.58	Average
4	14242.800	16.83	39.80	54.40	33.11	35.34	54.00	-18.66	Average
5	16891.040	19.64	39.60	54.09	31.22	36.37	54.00	-17.63	Average
6	18000.000	18.64	43.80	54.20	31.36	39.60	54.00	-14.40	Average

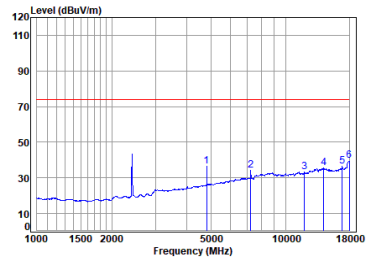
11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4818.016	8.92	31.97	55.42	59.15	44.62	74.00	-29.38	Peak
2	7920.911	11.48	37.64	56.52	53.22	45.82	74.00	-28.18	Peak
3	11335.190	14.29	39.70	55.39	48.60	47.20	74.00	-26.80	Peak
4	14079.080	16.38	39.90	54.47	47.93	49.74	74.00	-24.26	Peak
5	16891.040	19.64	39.60	54.09	45.09	50.24	74.00	-23.76	Peak
6	pp17948.050	18.75	43.44	54.20	45.32	53.31	74.00	-20.69	Peak

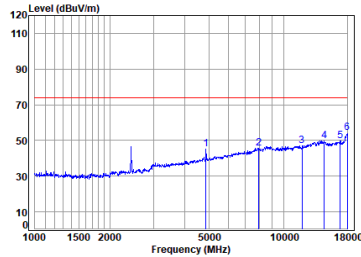
11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4818.016	8.92	31.97	55.42	51.06	36.53	74.00	-37.47	Average
2	7242.052	11.10	36.60	56.72	43.13	34.11	74.00	-39.89	Average
3	11906.070	14.62	39.71	55.23	34.24	33.34	74.00	-40.66	Average
4	14242.800	16.83	39.80	54.40	33.11	35.37	74.00	-38.63	Average
5	16891.040	19.64	39.60	54.09	31.16	36.31	74.00	-37.69	Average
6	pp18000.000	18.64	43.80	54.20	31.39	39.63	74.00	-34.37	Average

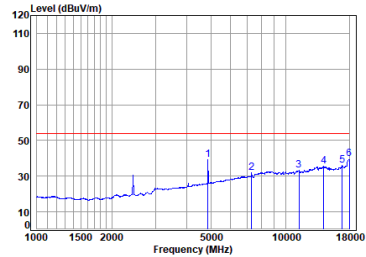
11b_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	59.70	45.38	74.00	-28.62	Peak	
2	7943.838	11.48	37.69	56.52	52.91	45.56	74.00	-28.44	Peak	
3	11871.710	14.63	39.67	55.24	48.00	47.06	74.00	-26.94	Peak	
4	14242.800	16.36	39.43	54.28	48.18	49.69	74.00	-24.31	Peak	
5	16891.040	19.64	39.60	54.09	44.77	49.92	74.00	-24.08	Peak	
6	pp18000.000	18.64	43.80	54.20	46.09	54.33	74.00	-19.67	Peak	

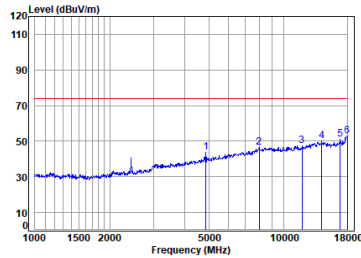
11b_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	53.62	39.30	54.00	-14.70	Average	
2	7943.838	11.11	36.71	56.70	40.86	31.98	54.00	-22.02	Average	
3	11302.480	14.39	39.70	55.40	34.63	33.32	54.00	-20.68	Average	
4	14242.800	16.83	39.80	54.40	33.13	35.36	54.00	-18.64	Average	
5	16891.040	19.64	39.60	54.09	31.09	36.24	54.00	-17.76	Average	
6	pp18000.000	18.64	43.80	54.20	31.30	39.54	54.00	-14.46	Average	

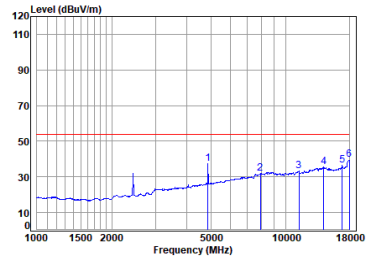
11b_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	57.98	43.66	74.00	-30.34	Peak	
2	7943.838	11.46	37.78	56.50	53.76	46.50	74.00	-27.50	Peak	
3	11871.710	14.63	39.67	55.24	48.39	47.45	74.00	-26.55	Peak	
4	14242.800	16.83	39.80	54.40	47.74	49.97	74.00	-24.03	Peak	
5	16891.040	19.64	39.60	54.09	45.94	51.09	74.00	-22.91	Peak	
6	pp18000.000	18.64	43.80	54.20	44.83	53.07	74.00	-20.93	Peak	

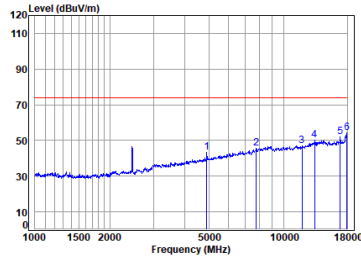
11b_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	51.52	37.20	54.00	-16.80	Average	
2	7943.838	11.46	37.78	56.52	39.33	31.93	54.00	-22.07	Average	
3	11302.480	14.39	39.70	55.40	34.56	33.25	54.00	-20.75	Average	
4	14242.800	16.83	39.80	54.40	33.14	35.37	54.00	-18.63	Average	
5	16891.040	19.64	39.60	54.09	31.20	36.35	54.00	-17.65	Average	
6	pp18000.000	18.64	43.80	54.20	31.33	39.57	54.00	-14.43	Average	

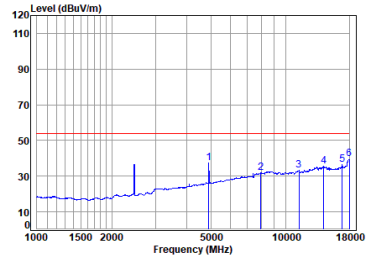
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4916.490	9.02	32.20	55.46	57.74	43.50	74.00	-30.50	Peak	
2	7762.260	11.22	37.05	56.57	53.89	45.59	74.00	-28.41	Peak	
3	11837.450	14.61	39.64	55.24	47.83	46.84	74.00	-27.16	Peak	
4	13326.750	15.92	40.30	54.72	48.68	50.18	74.00	-23.82	Peak	
5	16891.040	19.64	39.60	54.09	46.95	52.10	74.00	-21.90	Peak	
6	pp17948.050	18.75	43.44	54.20	46.17	54.16	74.00	-19.84	Peak	

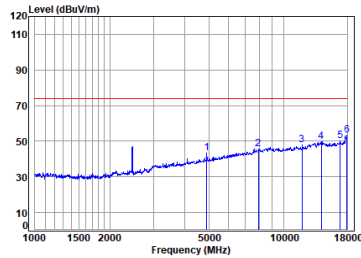
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4916.490	9.02	32.20	55.46	51.53	37.29	54.00	-16.71	Average	
2	7943.838	11.48	37.69	56.52	39.35	32.00	54.00	-21.99	Average	
3	11302.480	14.39	39.70	55.40	34.50	33.19	54.00	-20.81	Average	
4	14242.800	16.83	39.80	54.40	33.17	35.40	54.00	-18.60	Average	
5	16891.040	19.64	39.60	54.09	31.19	36.34	54.00	-17.66	Average	
6	pp18000.000	18.64	43.80	54.20	31.25	39.49	54.00	-14.51	Average	

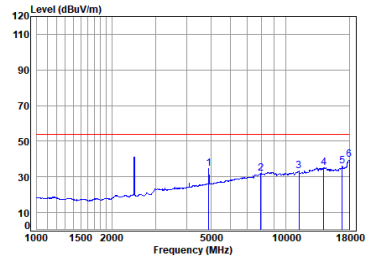
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4916.490	9.02	32.20	55.46	57.46	43.22	74.00	-30.78	Peak	
2	7920.911	11.48	37.64	56.52	52.97	45.57	74.00	-28.43	Peak	
3	11871.710	14.63	39.67	55.24	48.74	47.80	74.00	-26.20	Peak	
4	14160.710	16.53	39.84	54.43	47.87	49.81	74.00	-24.19	Peak	
5	16891.040	19.64	39.60	54.09	45.09	50.24	74.00	-23.76	Peak	
6	pp17948.050	18.75	43.44	54.20	45.25	53.24	74.00	-20.76	Peak	

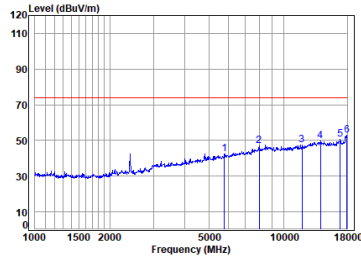
11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4916.490	9.02	32.20	55.46	49.13	34.89	54.00	-19.11	Average	
2	7943.838	11.48	37.69	56.52	39.35	32.00	54.00	-22.00	Average	
3	11302.480	14.39	39.70	55.40	34.51	33.20	54.00	-20.80	Average	
4	14242.800	16.83	39.80	54.40	32.98	35.21	54.00	-18.79	Average	
5	16891.040	19.64	39.60	54.09	31.09	36.24	54.00	-17.76	Average	
6	pp18000.000	18.64	43.80	54.20	31.26	39.50	54.00	-14.50	Average	

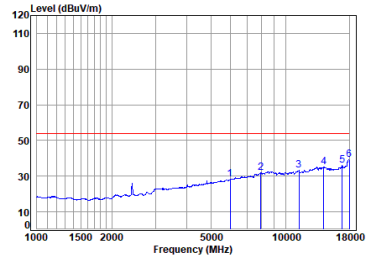
11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5780.300	10.03	33.36	55.82	55.05	42.62	74.00	-31.38	Peak	
2	7966.832	11.47	37.73	56.51	54.22	46.91	74.00	-27.09	Peak	
3	11837.450	14.61	39.64	55.24	48.33	47.34	74.00	-26.66	Peak	
4	14038.450	16.47	39.90	54.48	47.78	49.67	74.00	-24.33	Peak	
5	16891.040	19.64	39.60	54.09	45.56	50.71	74.00	-23.29	Peak	
6	pp17948.050	18.75	43.44	54.20	44.88	52.87	74.00	-21.13	Peak	

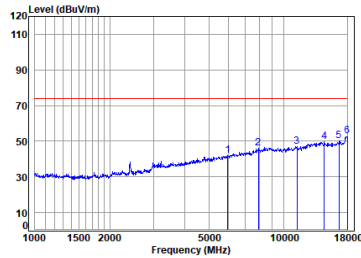
11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5984.305	10.04	33.74	55.89	40.20	28.09	54.00	-25.91	Average	
2	7943.838	11.48	37.69	56.52	39.48	32.13	54.00	-21.87	Average	
3	11302.480	14.39	39.70	55.40	34.51	33.20	54.00	-20.80	Average	
4	14242.800	16.83	39.80	54.40	32.95	35.18	54.00	-18.82	Average	
5	16891.040	19.64	39.60	54.09	31.02	36.17	54.00	-17.83	Average	
6	pp18000.000	18.64	43.80	54.20	31.22	39.46	54.00	-14.54	Average	

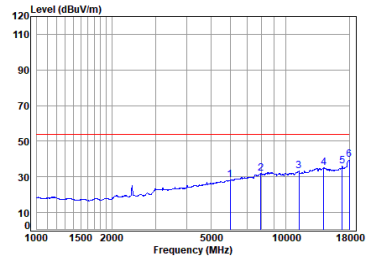
11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5967.033	10.03	33.67	55.89	54.06	41.87	74.00	-32.13	Peak	
2	7898.049	11.48	37.59	56.53	53.49	46.03	74.00	-27.97	Peak	
3	11302.480	14.39	39.70	55.40	48.25	46.94	74.00	-27.06	Peak	
4	14533.910	16.36	39.43	54.28	48.26	49.77	74.00	-24.23	Peak	
5	16696.880	17.79	39.39	54.07	47.29	50.40	74.00	-23.60	Peak	
6	pp18000.000	18.64	43.80	54.20	44.65	52.89	74.00	-21.11	Peak	

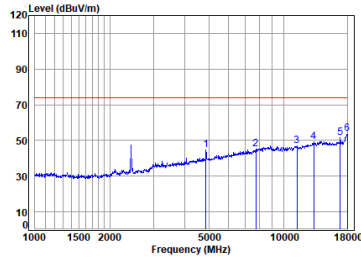
11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5984.305	10.04	33.74	55.89	40.28	28.17	54.00	-25.83	Average	
2	7943.838	11.48	37.69	56.52	39.26	31.91	54.00	-22.09	Average	
3	11302.480	14.39	39.70	55.40	34.46	33.15	54.00	-20.85	Average	
4	14242.800	16.83	39.80	54.40	32.97	35.20	54.00	-18.80	Average	
5	16891.040	19.64	39.60	54.09	31.02	36.17	54.00	-17.83	Average	
6	pp18000.000	18.64	43.80	54.20	31.28	39.52	54.00	-14.48	Average	

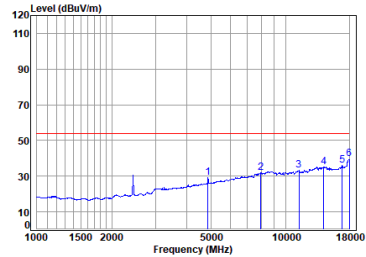
11g_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	59.00	44.68	74.00	-29.32	Peak	
2	7739.857	11.22	36.98	56.57	53.66	45.29	74.00	-28.71	Peak	
3	11302.480	14.39	39.70	55.40	48.49	47.18	74.00	-26.82	Peak	
4	13211.690	15.84	40.21	54.76	48.15	49.44	74.00	-24.56	Peak	
5	16891.040	19.64	39.60	54.09	46.30	51.45	74.00	-22.55	Peak	
6	pp18000.000	18.64	43.80	54.20	45.65	53.89	74.00	-20.11	Peak	

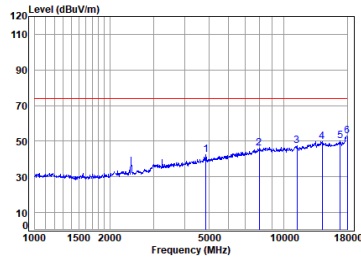
11g_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	43.40	29.08	54.00	-24.92	Average	
2	7943.838	11.48	37.69	56.52	39.30	31.95	54.00	-22.05	Average	
3	11302.480	14.39	39.70	55.40	34.40	33.09	54.00	-20.91	Average	
4	14242.800	16.83	39.80	54.40	33.05	35.28	54.00	-18.72	Average	
5	16891.040	19.64	39.60	54.09	30.97	36.12	54.00	-17.88	Average	
6	pp18000.000	18.64	43.80	54.20	31.27	39.51	54.00	-14.49	Average	

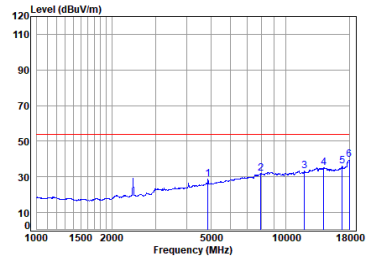
11g_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	56.74	42.42	74.00	-31.58	Peak	
2	7989.893	11.46	37.78	56.50	53.57	46.31	74.00	-27.69	Peak	
3	11302.480	14.39	39.70	55.40	48.78	47.47	74.00	-26.53	Peak	
4	14284.030	17.00	39.80	54.38	47.33	49.75	74.00	-24.25	Peak	
5	16891.040	19.64	39.60	54.09	44.82	49.97	74.00	-24.03	Peak	
6	pp18000.000	18.64	43.80	54.20	44.88	53.12	74.00	-20.88	Peak	

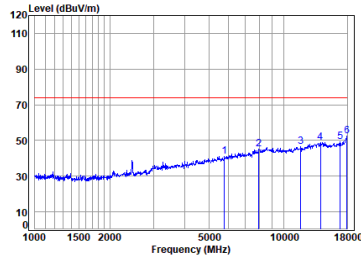
11g_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	43.15	28.83	54.00	-25.17	Average	
2	7943.838	11.48	37.69	56.52	39.32	31.97	54.00	-22.03	Average	
3	11906.070	14.62	39.71	55.23	34.11	33.21	54.00	-20.79	Average	
4	14242.800	16.83	39.80	54.40	32.99	35.22	54.00	-18.78	Average	
5	16891.040	19.64	39.60	54.09	31.08	36.23	54.00	-17.77	Average	
6	pp18000.000	18.64	43.80	54.20	31.26	39.50	54.00	-14.50	Average	

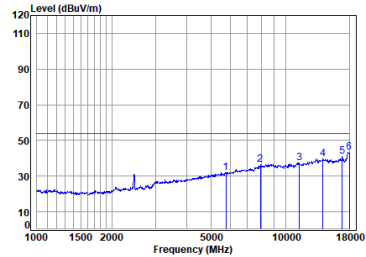
11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5780.300	10.03	33.36	55.82	53.69	41.26	74.00	-32.74	Peak	
2	7943.838	11.48	37.69	56.52	52.52	45.17	74.00	-28.83	Peak	
3	11735.250	14.46	39.54	55.27	47.69	46.42	74.00	-27.58	Peak	
4	14838.450	16.47	39.90	54.48	47.02	48.91	74.00	-25.09	Peak	
5	16891.040	19.64	39.60	54.09	44.01	49.16	74.00	-24.84	Peak	
6	pp17948.050	18.75	43.44	54.20	44.53	52.52	74.00	-21.48	Peak	

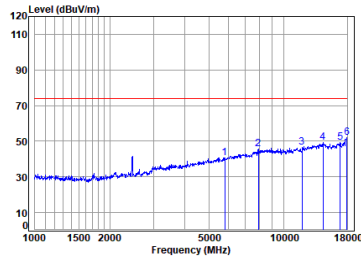
11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5763.617	9.99	33.33	55.81	44.52	32.03	54.00	-21.97	Average	
2	7898.049	11.48	37.59	56.53	43.82	36.36	54.00	-17.64	Average	
3	11335.190	14.29	39.70	55.39	38.74	37.34	54.00	-16.66	Average	
4	14119.830	16.40	39.88	54.45	38.00	39.83	54.00	-14.17	Average	
5	16891.040	19.64	39.60	54.09	35.77	40.92	54.00	-13.08	Average	
6	pp18000.000	18.64	43.80	54.20	35.16	43.40	54.00	-10.60	Average	

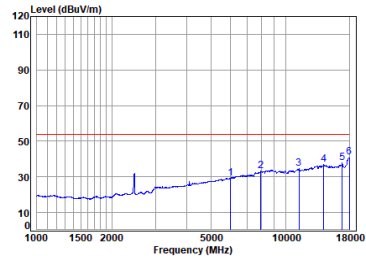
11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5797.032	10.07	33.39	55.82	53.08	40.72	74.00	-33.28	Peak	
2	7898.049	11.48	37.69	56.53	52.95	45.49	74.00	-28.51	Peak	
3	11871.710	14.63	39.67	55.24	47.34	46.40	74.00	-27.60	Peak	
4	14408.430	16.90	39.59	54.33	47.33	49.49	74.00	-24.51	Peak	
5	16891.040	19.64	39.60	54.09	44.21	49.36	74.00	-24.64	Peak	
6	pp17948.050	18.75	43.44	54.20	44.01	52.00	74.00	-22.00	Peak	

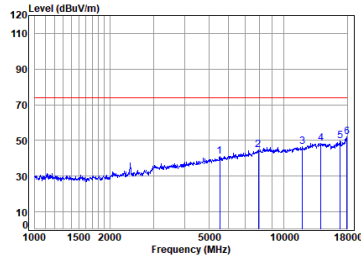
11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6001.626	10.05	33.80	55.90	41.36	29.31	54.00	-24.69	Average	
2	7943.838	11.48	37.69	56.52	40.45	33.10	54.00	-20.90	Average	
3	11302.480	14.39	39.70	55.40	35.89	34.58	54.00	-19.42	Average	
4	14242.800	16.83	39.80	54.40	34.65	36.88	54.00	-17.12	Average	
5	16891.040	19.64	39.60	54.09	32.83	37.98	54.00	-16.02	Average	
6	pp18000.000	18.64	43.80	54.20	32.71	40.95	54.00	-13.05	Average	

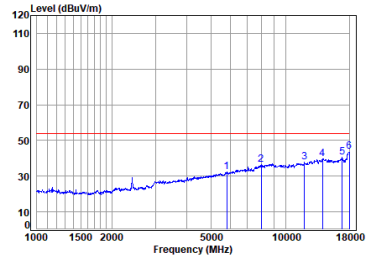
11n_20M_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5535.047	9.64	32.90	55.72	54.33	41.15	74.00	-32.85	Peak	
2	7898.049	11.48	37.59	56.53	52.32	44.86	74.00	-29.14	Peak	
3	11906.070	14.62	39.71	55.23	47.24	46.34	74.00	-27.66	Peak	
4	14119.830	16.40	39.88	54.45	46.65	48.48	74.00	-25.52	Peak	
5	16891.040	19.64	39.60	54.09	44.41	49.56	74.00	-24.44	Peak	
6	pp17948.050	18.75	43.44	54.20	44.23	52.22	74.00	-21.78	Peak	

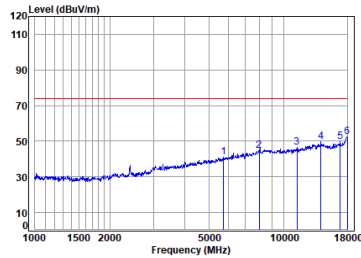
11n_20M_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5797.032	10.07	33.39	55.82	44.55	32.19	54.00	-21.81	Average	
2	7966.832	11.47	37.73	56.51	43.91	36.60	54.00	-17.40	Average	
3	11906.070	14.62	39.71	55.23	38.74	37.84	54.00	-16.16	Average	
4	14079.000	16.38	39.90	54.47	38.01	39.82	54.00	-14.18	Average	
5	16891.040	19.64	39.60	54.09	35.52	40.67	54.00	-13.33	Average	
6	pp18000.000	18.64	43.80	54.20	35.66	43.90	54.00	-10.10	Average	

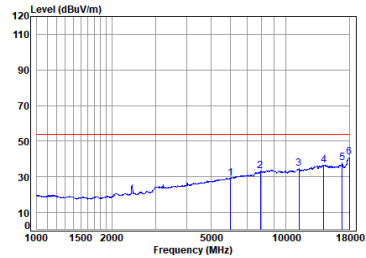
11n_20M_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5730.396	9.91	33.26	55.80	53.61	40.98	74.00	-33.02	Peak	
2	7966.832	11.47	37.73	56.51	52.24	44.93	74.00	-29.07	Peak	
3	11302.480	14.39	39.70	55.40	47.71	46.40	74.00	-27.60	Peak	
4	14119.830	16.40	39.88	54.45	47.91	49.74	74.00	-24.26	Peak	
5	16891.040	19.64	39.60	54.09	44.77	49.92	74.00	-24.08	Peak	
6	pp18000.000	18.64	43.80	54.20	44.41	52.65	74.00	-21.35	Peak	

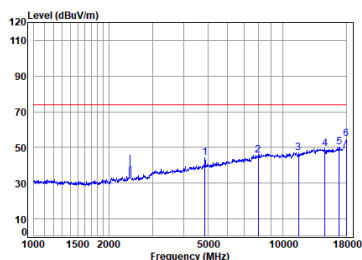
11n_20M_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6001.626	10.05	33.80	55.90	41.44	29.39	54.00	-24.61	Average	
2	7920.911	11.48	37.64	56.52	40.70	33.30	54.00	-20.70	Average	
3	11302.480	14.39	39.70	55.40	35.92	34.61	54.00	-19.39	Average	
4	14242.800	16.83	39.80	54.40	34.47	36.70	54.00	-17.30	Average	
5	16891.040	19.64	39.60	54.09	32.82	37.97	54.00	-16.03	Average	
6	pp18000.000	18.64	43.80	54.20	32.78	41.02	54.00	-12.98	Average	

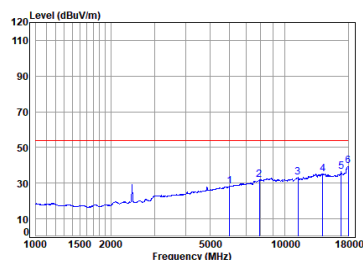
11n_20M_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	55.44	58.56	44.24	74.00	-29.76	Peak	
2	7989.893	11.46	37.78	56.50	53.07	45.81	74.00	-28.19	Peak	
3	11566.870	14.40	39.60	55.32	48.49	47.17	74.00	-26.83	Peak	
4	14788.150	16.75	39.11	54.18	47.45	49.13	74.00	-24.87	Peak	
5	16891.040	19.64	39.60	54.09	44.99	50.14	74.00	-23.86	Peak	
6	pp18000.000	18.64	43.80	54.20	46.43	54.67	74.00	-19.33	Peak	

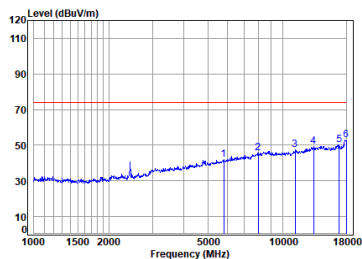
11n_20M_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6001.626	10.05	33.80	55.90	40.19	28.14	54.00	-25.86	Average	
2	7920.911	11.48	37.64	56.52	39.31	31.91	54.00	-22.09	Average	
3	11302.480	14.39	39.70	55.40	34.71	33.40	54.00	-20.60	Average	
4	14242.800	16.83	39.80	54.40	33.04	35.27	54.00	-18.73	Average	
5	16891.040	19.64	39.60	54.09	31.30	36.45	54.00	-17.55	Average	
6	pp18000.000	18.64	43.80	54.20	31.35	39.59	54.00	-14.41	Average	

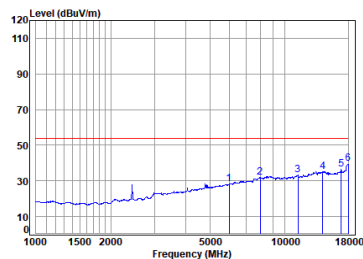
11n_20M_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5797.032	10.07	33.39	55.82	54.53	42.17	74.00	-31.83	Peak	
2	7966.832	11.47	37.73	56.51	53.09	45.78	74.00	-28.22	Peak	
3	11237.330	14.30	39.64	55.42	48.97	47.49	74.00	-26.51	Peak	
4	13326.750	15.92	40.30	54.72	47.85	49.35	74.00	-24.65	Peak	
5	16891.040	19.64	39.60	54.09	45.07	50.22	74.00	-23.78	Peak	
6	pp18000.000	18.64	43.80	54.20	44.77	53.01	74.00	-20.99	Peak	

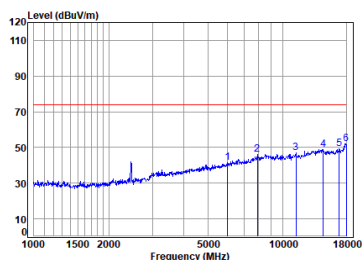
11n_20M_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5984.305	10.04	33.74	55.89	40.28	28.17	54.00	-25.83	Average	
2	7966.832	11.47	37.73	56.51	39.24	31.93	54.00	-22.07	Average	
3	11302.480	14.39	39.70	55.40	34.52	33.21	54.00	-20.79	Average	
4	14242.800	16.83	39.80	54.40	33.09	35.32	54.00	-18.68	Average	
5	16891.040	19.64	39.60	54.09	31.14	36.29	54.00	-17.71	Average	
6	pp18000.000	18.64	43.80	54.20	31.44	39.68	54.00	-14.32	Average	

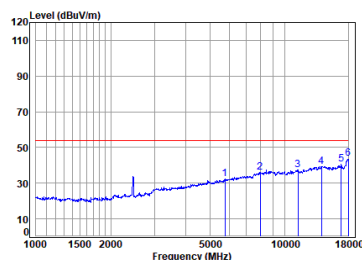
11n_20M_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6801.626	10.05	33.80	55.90	53.78	41.73	74.00	-32.27	Peak	
2	7920.911	11.48	37.64	56.52	53.57	46.17	74.00	-27.83	Peak	
3	11302.480	14.39	39.70	55.40	48.29	46.98	74.00	-27.02	Peak	
4	14533.910	16.36	39.43	54.28	47.41	48.92	74.00	-25.08	Peak	
5	16891.040	19.64	39.60	54.09	44.11	49.26	74.00	-24.74	Peak	
6	pp18000.000	18.64	43.80	54.20	43.84	52.08	74.00	-21.92	Peak	

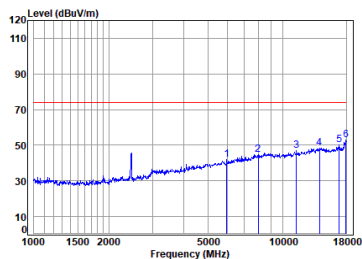
11n_20M_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5763.617	9.99	33.33	55.81	44.97	32.48	54.00	-21.52	Average	
2	7966.832	11.47	37.73	56.51	43.31	36.00	54.00	-18.00	Average	
3	11302.480	14.39	39.70	55.40	38.81	37.50	54.00	-16.50	Average	
4	14079.080	16.38	39.90	54.47	37.49	39.30	54.00	-14.70	Average	
5	16891.040	19.64	39.60	54.09	35.28	40.43	54.00	-13.57	Average	
6	pp18000.000	18.64	43.80	54.20	35.63	43.87	54.00	-10.13	Average	

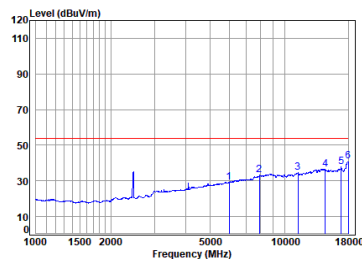
11n_20M_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5949.811	10.01	33.60	55.88	54.41	42.14	74.00	-31.86	Peak	
2	7989.893	11.46	37.78	56.50	51.88	44.62	74.00	-29.38	Peak	
3	11335.190	14.29	39.70	55.39	48.30	46.90	74.00	-27.10	Peak	
4	14038.450	16.47	39.90	54.48	46.32	48.21	74.00	-25.79	Peak	
5	16891.040	19.64	39.60	54.09	44.98	50.13	74.00	-23.87	Peak	
6	pp17948.050	18.75	43.44	54.20	44.87	52.86	74.00	-21.14	Peak	

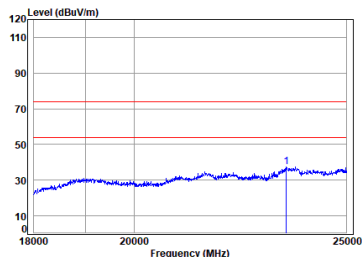
11n_20M_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5984.305	10.04	33.74	55.89	41.49	29.38	54.00	-24.62	Average	
2	7920.911	11.48	37.64	56.52	40.63	33.23	54.00	-20.77	Average	
3	11302.480	14.39	39.70	55.40	35.99	34.68	54.00	-19.32	Average	
4	14533.910	16.36	39.43	54.28	35.00	36.51	54.00	-17.49	Average	
5	16891.040	19.64	39.60	54.09	32.88	38.03	54.00	-15.97	Average	
6	pp18000.000	18.64	43.80	54.20	32.63	40.87	54.00	-13.13	Average	

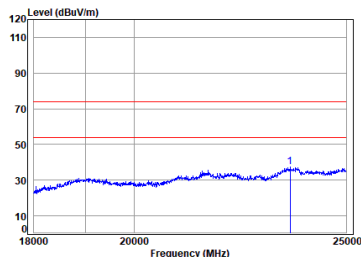
11b_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23479.590	6.76	38.28	50.49	52.59	37.60	74.00	-36.40	Peak		-9.54

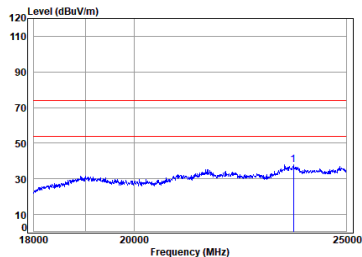
11b_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23564.590	6.76	38.43	50.31	51.91	37.25	74.00	-36.75	Peak		-9.54

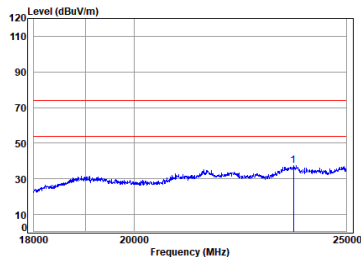
11b_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23649.890	6.77	38.60	50.33	52.58	38.08	74.00	-35.92	Peak		-9.54

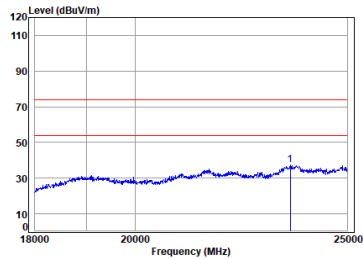
11b_TX_CH_06_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23649.890	6.77	38.60	50.33	51.98	37.48	74.00	-36.52	Peak		-9.54

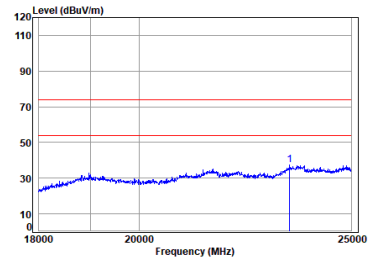
11b_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23549.110	6.76	38.40	50.31	52.11	37.42	74.00	-36.58	Peak		-9.54

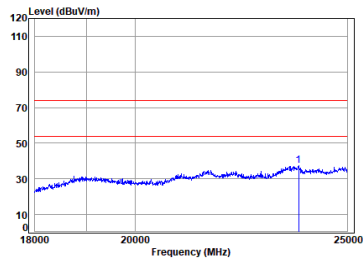
11b_TX_CH_11_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23433.360	6.76	38.22	50.91	52.77	37.30	74.00	-36.70	Peak		-9.54

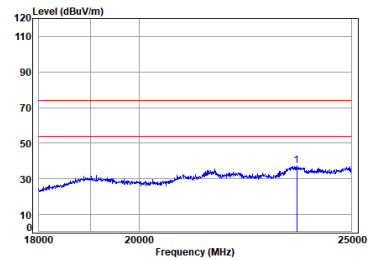
11g_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23758.910	6.77	38.81	50.35	51.51	37.20	74.00	-36.80	Peak		-9.54

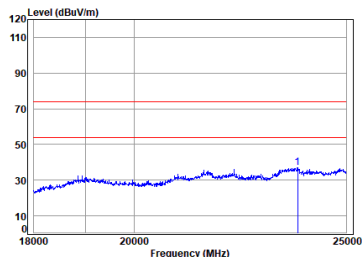
11g_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23611.000	6.76	38.52	50.32	51.82	37.24	74.00	-36.76	Peak		-9.54

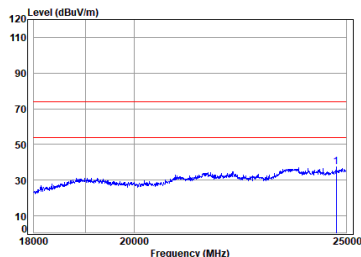
11g_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			dB
1 pp23758.910	6.77	38.81	50.35	51.34	37.03	74.00	-36.97	Peak		-9.54

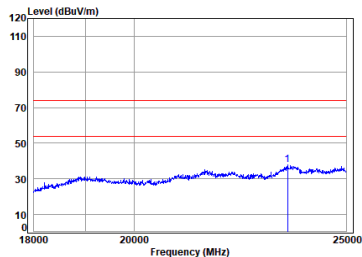
11g_TX_CH_06_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			dB
1 pp24738.570	6.83	39.49	51.79	52.41	37.40	74.00	-36.60	Peak		-9.54

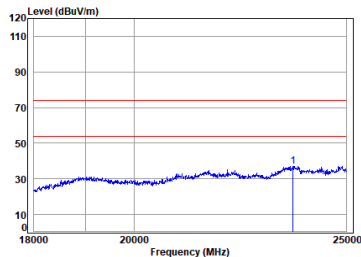
11g_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			dB
1 pp23592.740	6.76	38.31	50.30	52.44	37.67	74.00	-36.33	Peak		-9.54

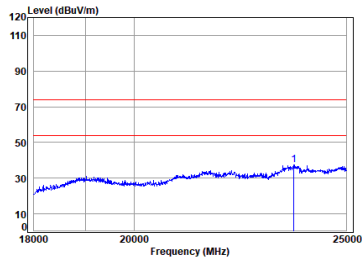
11g_TX_CH_11_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			dB
1 pp23642.130	6.77	38.58	50.33	51.55	37.03	74.00	-36.97	Peak		-9.54

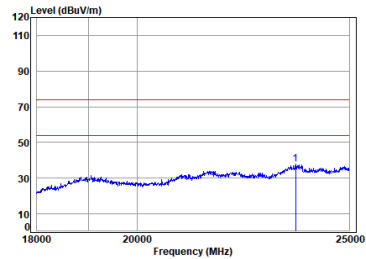
11n_20M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 pp23657.660	6.77	38.62	50.33	51.78	37.30	74.00 -36.70 Peak	-9.54

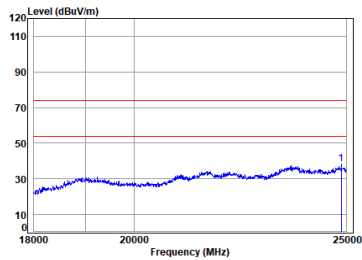
11n_20M_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 pp23626.600	6.77	38.55	50.33	52.43	37.88	74.00 -36.12 Peak	-9.54

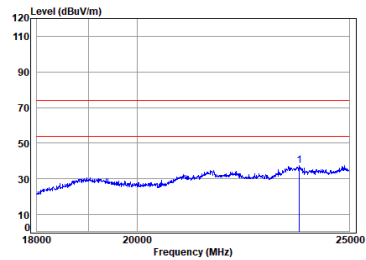
11n_20M_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 pp24877.110	6.84	39.50	51.90	53.64	38.54	74.00 -35.46 Peak	-9.54

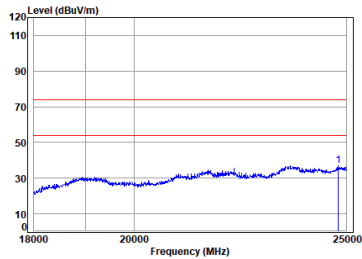
11n_20M_TX_CH_06_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 pp23727.710	6.77	38.76	50.35	51.61	37.25	74.00 -36.75 Peak	-9.54

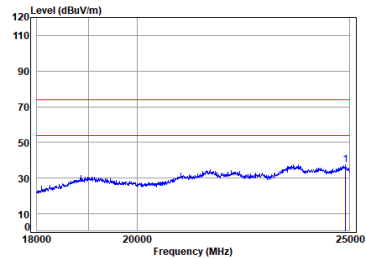
11n_20M_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp24795.530	6.84	39.50	51.84	51.99	36.95	74.00	-37.05	Peak	-9.54

11n_20M_TX_CH_11_Vertical



Condition: 3m VERTICAL
Job No : 05149AT/05150AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp24909.820	6.84	39.50	51.93	52.41	37.28	74.00	-36.72	Peak	-9.54

7.4 Maximum Conducted Output Power

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

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

7.4.1 E.U.T. Operation

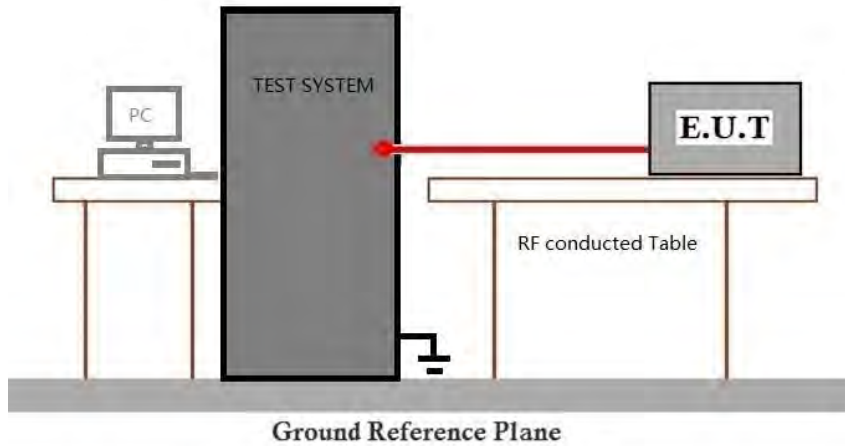
Operating Environment:

Temperature: 24.3 °C Humidity: 43.4 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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

Test Engineer: Linvo Ding

Limit:

≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

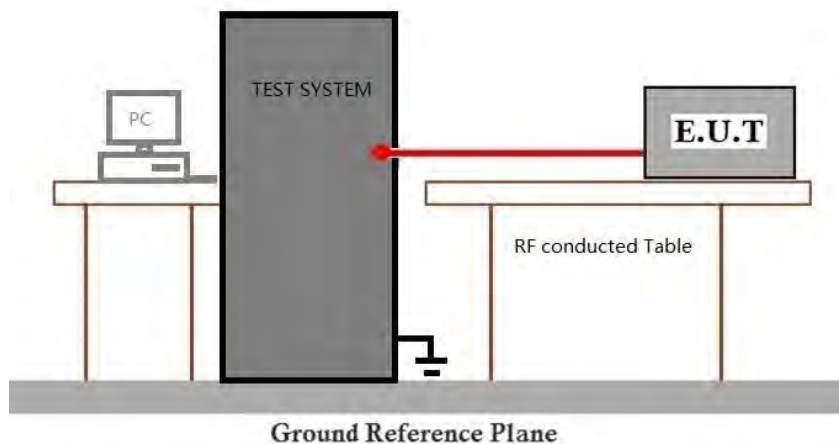
Humidity: 43.4 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 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

Test Engineer: Linvo Ding

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

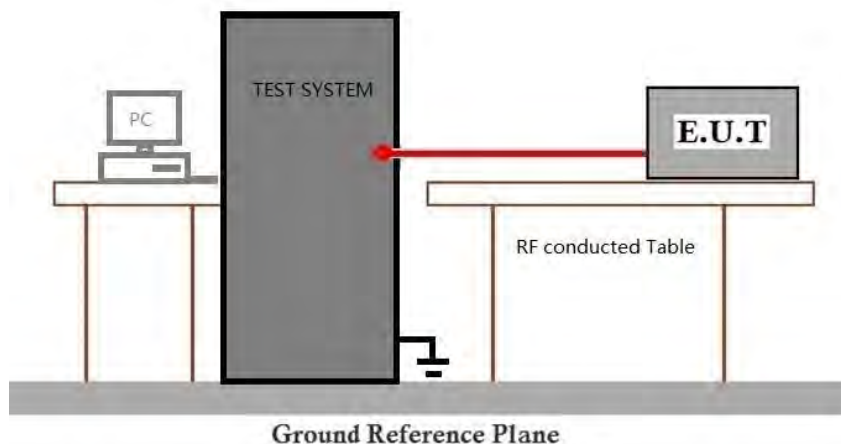
Humidity: 43.4 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 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
 Test Engineer: Linvo Ding

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

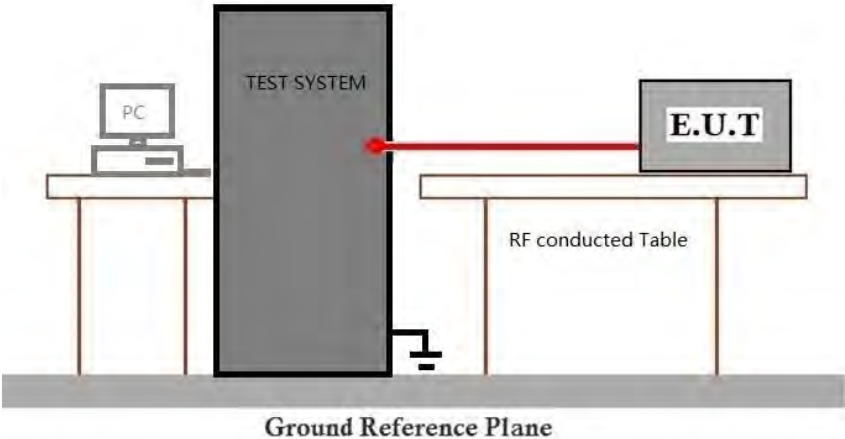
Operating Environment:

Temperature: 24.3 °C Humidity: 43.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 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 11.11
 Test Engineer: Linvo Ding

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

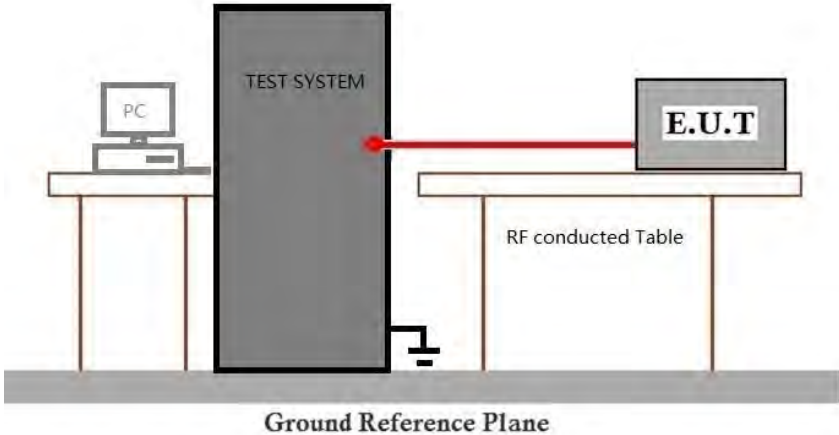
Operating Environment:

Temperature: 24.3 °C Humidity: 43.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2511005149AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal photos for SZCR2511005149AT

10 Appendix

1. Duty Cycle

1.1 Test Result

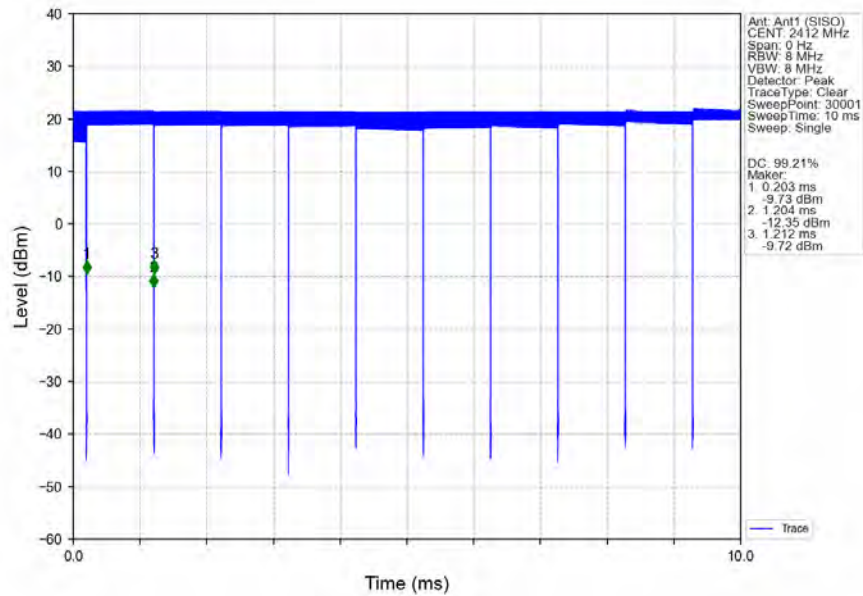
1.1.1 Ant1

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	1.001	1.009	99.21	0.03	0.03
		2437	1.001	1.009	99.21	0.03	0.00
		2462	1.001	1.009	99.21	0.03	0.07
802.11g	SISO	2412	0.505	0.512	98.63	0.06	0.07
		2437	0.505	0.512	98.63	0.06	0.03
		2462	0.504	0.512	98.44	0.07	0.03
802.11n (HT20)	SISO	2412	0.512	0.520	98.46	0.07	0.03
		2437	0.512	0.520	98.46	0.07	0.03
		2462	0.513	0.520	98.65	0.06	0.06
802.11n (HT40)	SISO	2422	0.269	0.276	97.46	0.11	0.07
		2437	0.268	0.275	97.45	0.11	0.07
		2452	0.268	0.276	97.10	0.13	0.07

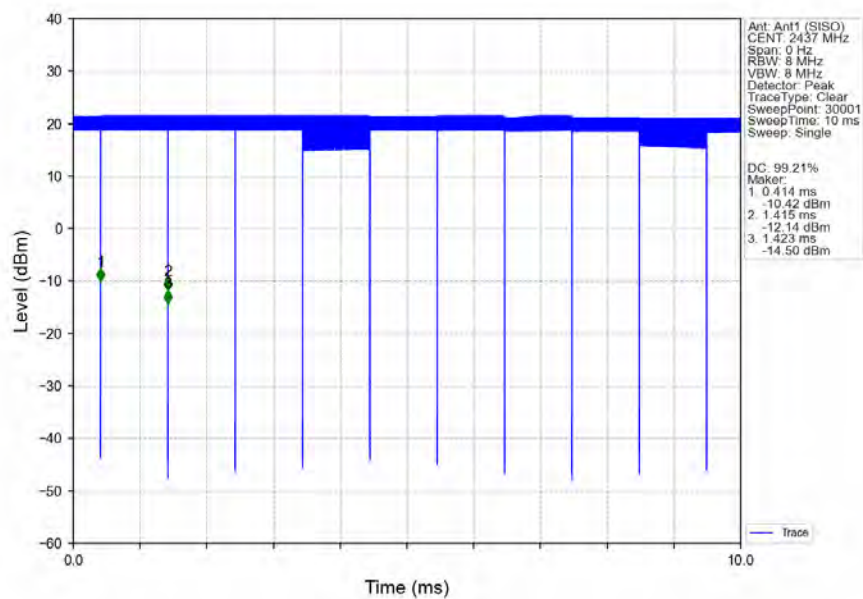
1.2 Test Graph

1.2.1 Ant1

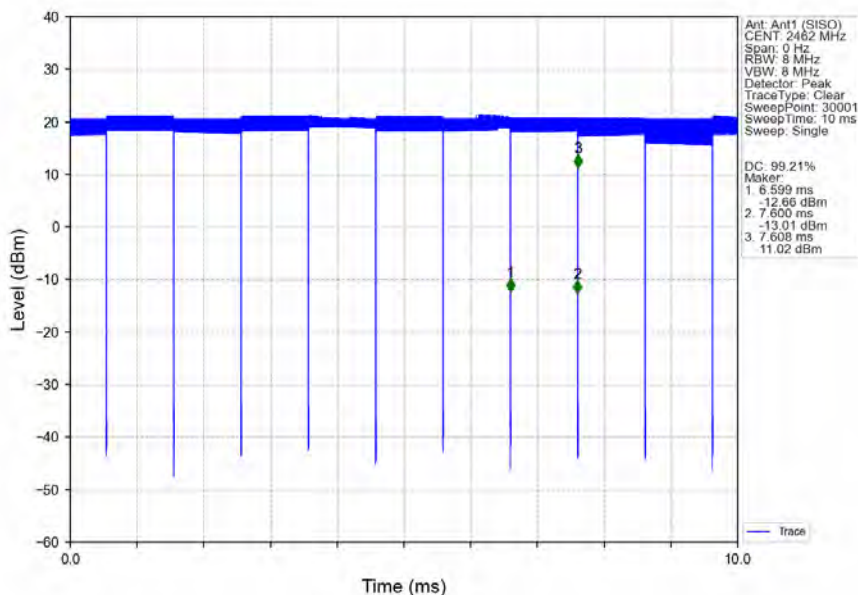
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



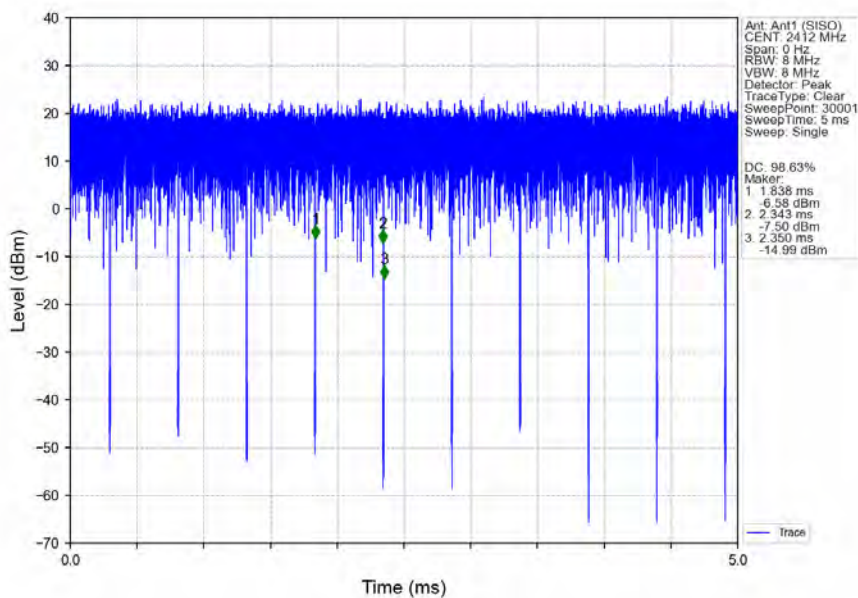
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



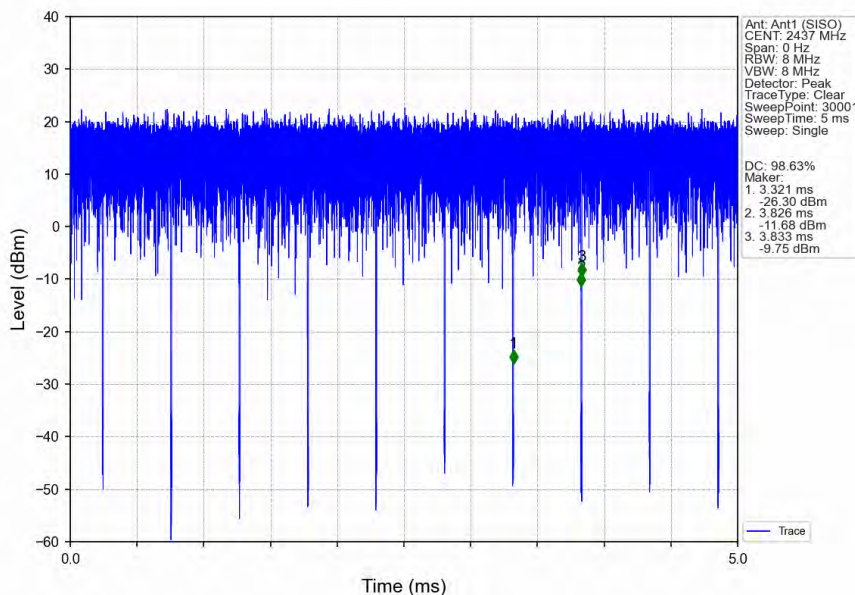
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



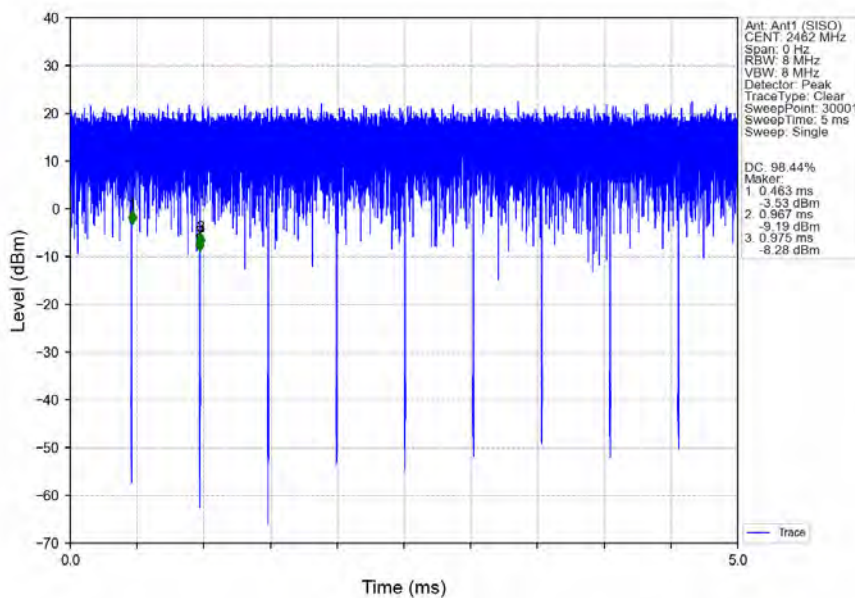
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



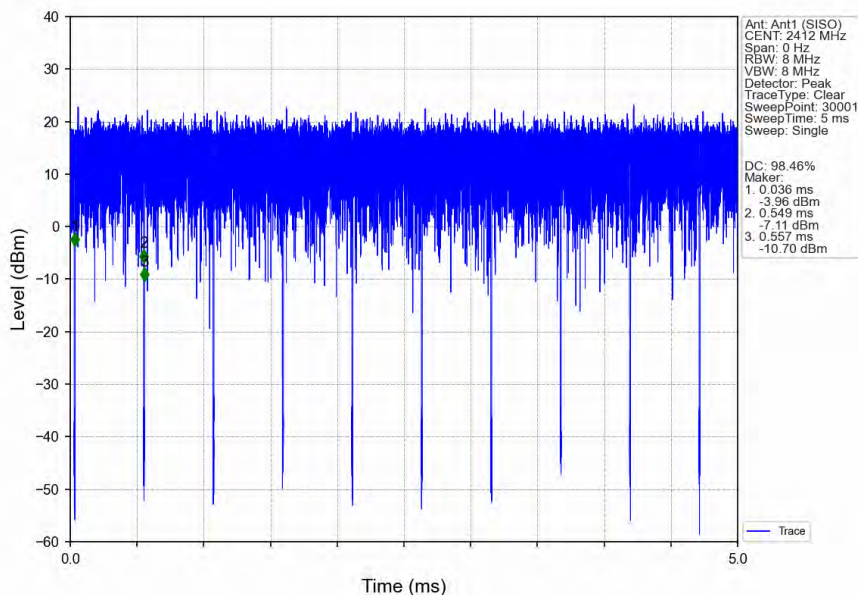
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



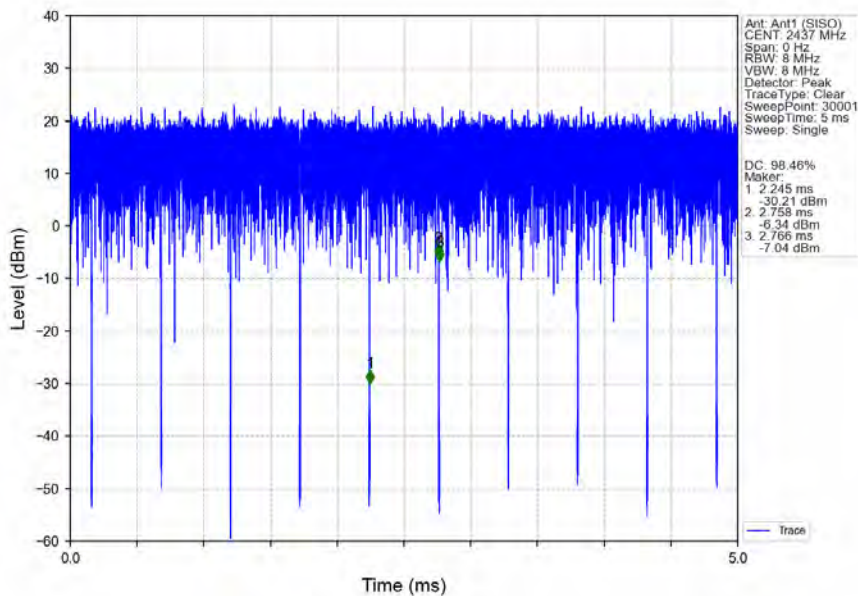
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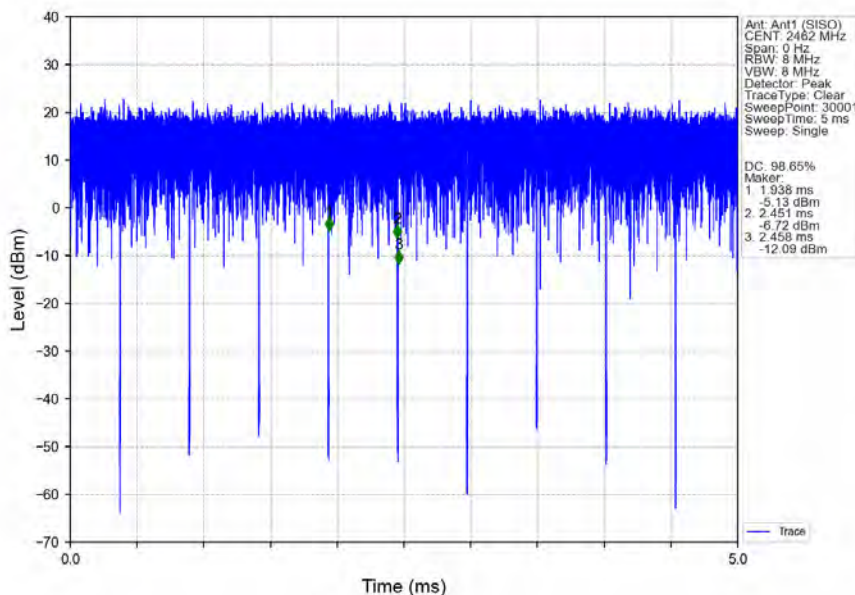
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



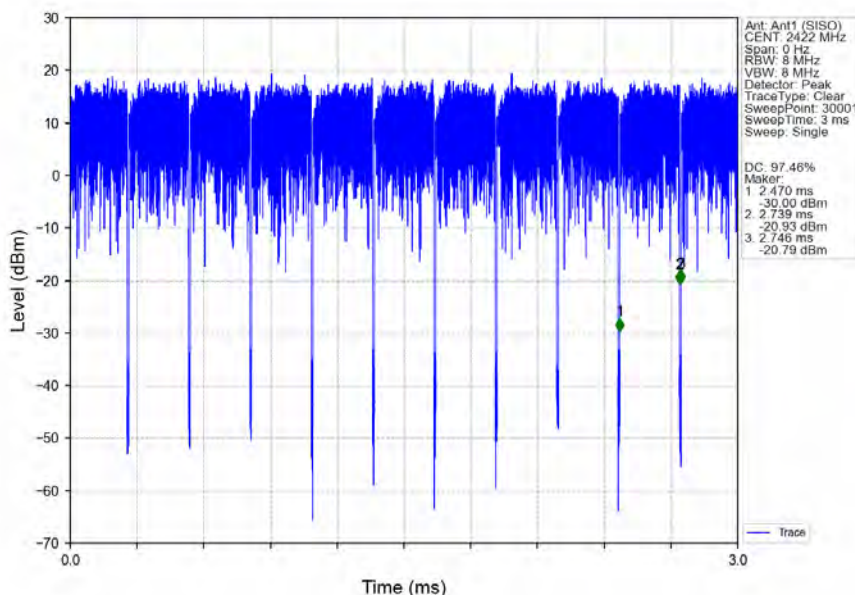
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



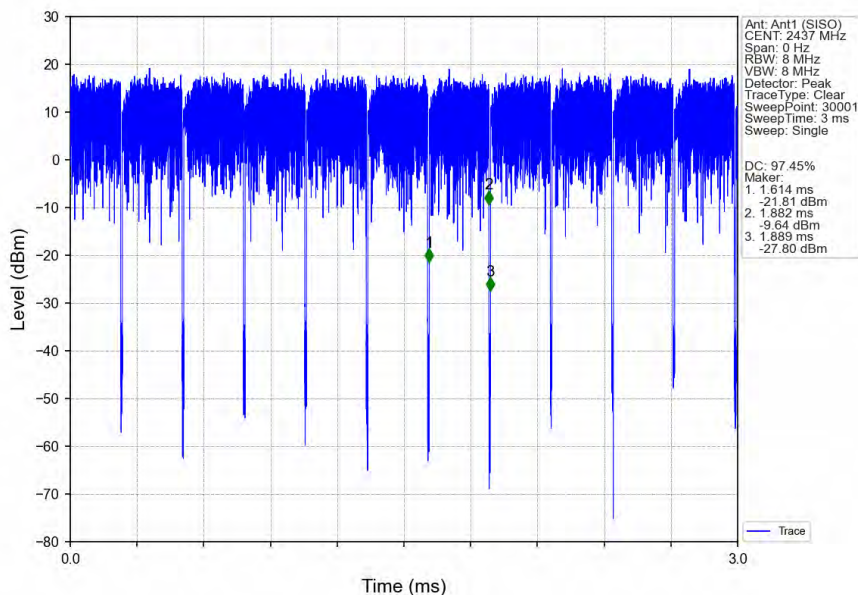
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



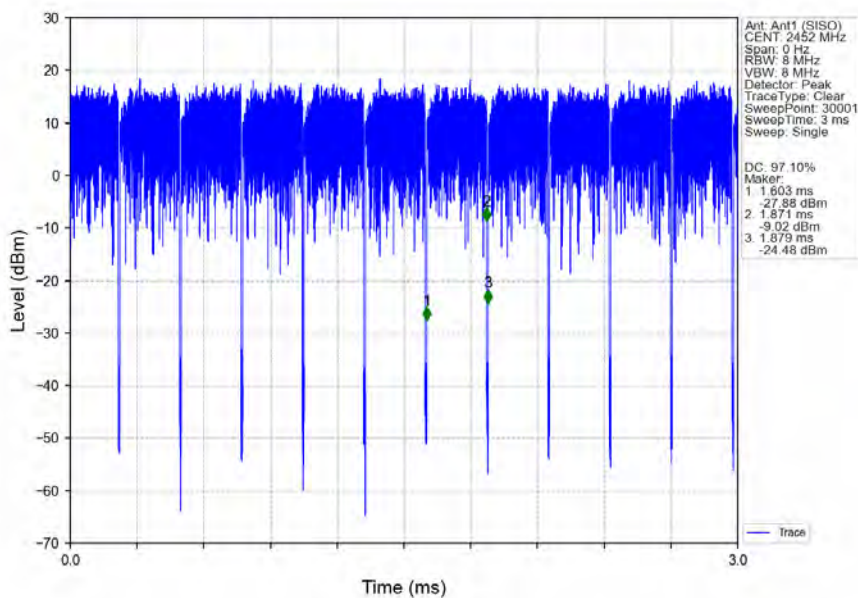
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. 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	13.344	/	Pass
		2437	1	13.361	/	Pass
		2462	1	13.331	/	Pass
802.11g	SISO	2412	1	17.058	/	Pass
		2437	1	17.037	/	Pass
		2462	1	17.052	/	Pass
802.11n (HT20)	SISO	2412	1	17.806	/	Pass
		2437	1	17.825	/	Pass
		2462	1	17.834	/	Pass
802.11n (HT40)	SISO	2422	1	35.857	/	Pass
		2437	1	35.873	/	Pass
		2452	1	35.871	/	Pass

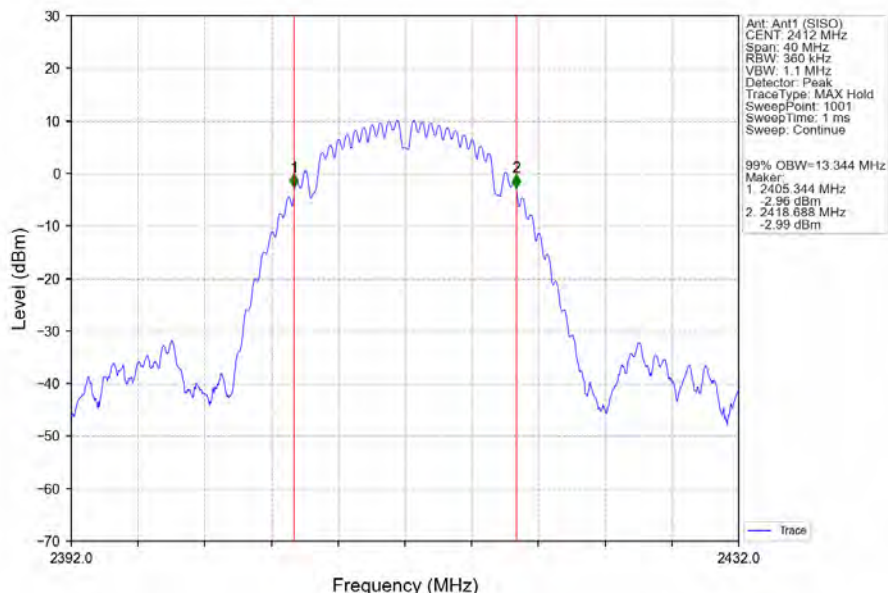
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.303	>=0.5	Pass
		2437	1	9.300	>=0.5	Pass
		2462	1	9.301	>=0.5	Pass
802.11g	SISO	2412	1	16.572	>=0.5	Pass
		2437	1	16.627	>=0.5	Pass
		2462	1	16.612	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.251	>=0.5	Pass
		2437	1	17.190	>=0.5	Pass
		2462	1	17.262	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.695	>=0.5	Pass
		2437	1	35.628	>=0.5	Pass
		2452	1	35.640	>=0.5	Pass

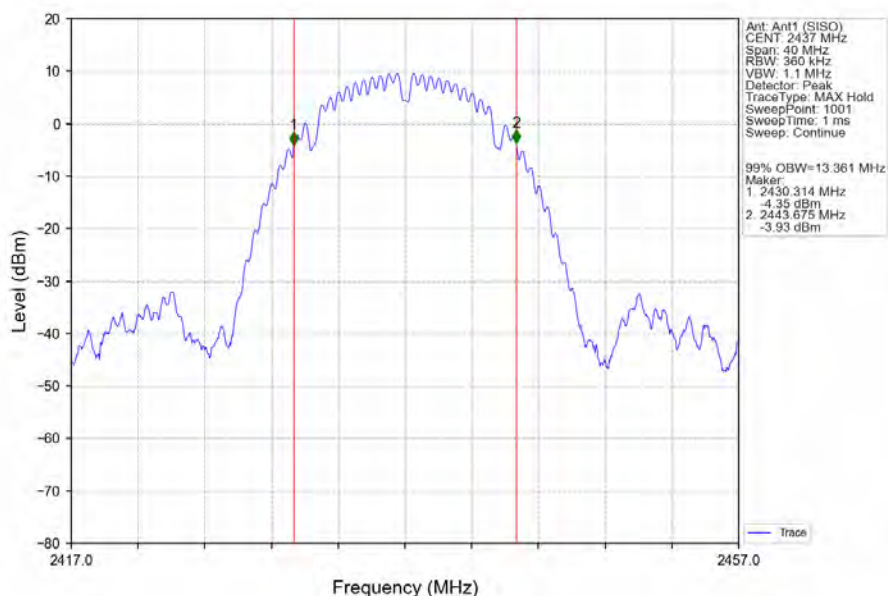
2.2 Test Graph

2.2.1 OBW

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



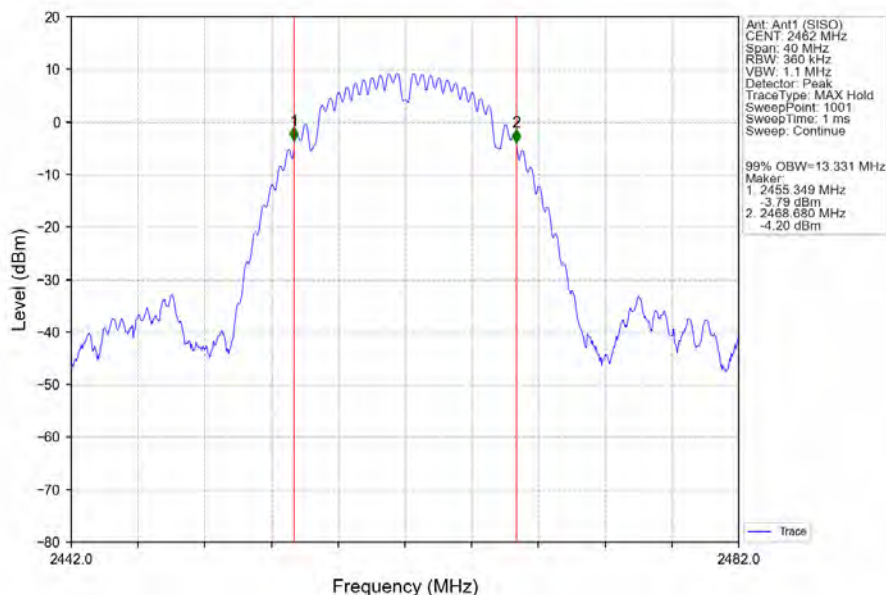
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



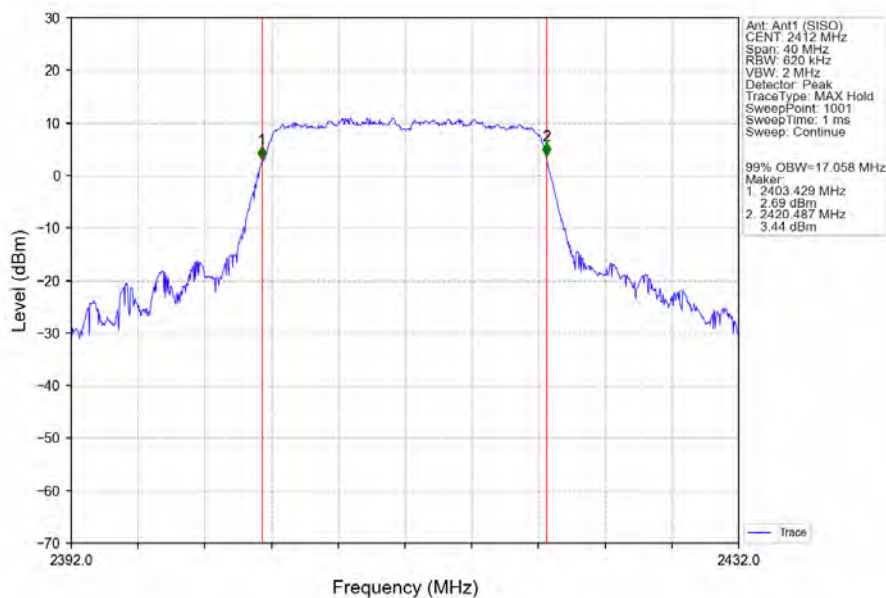
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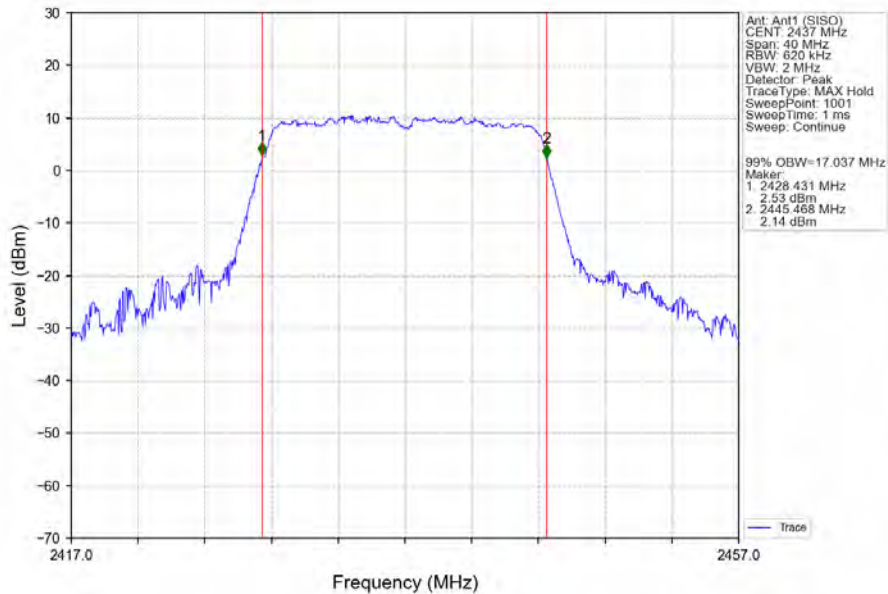
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



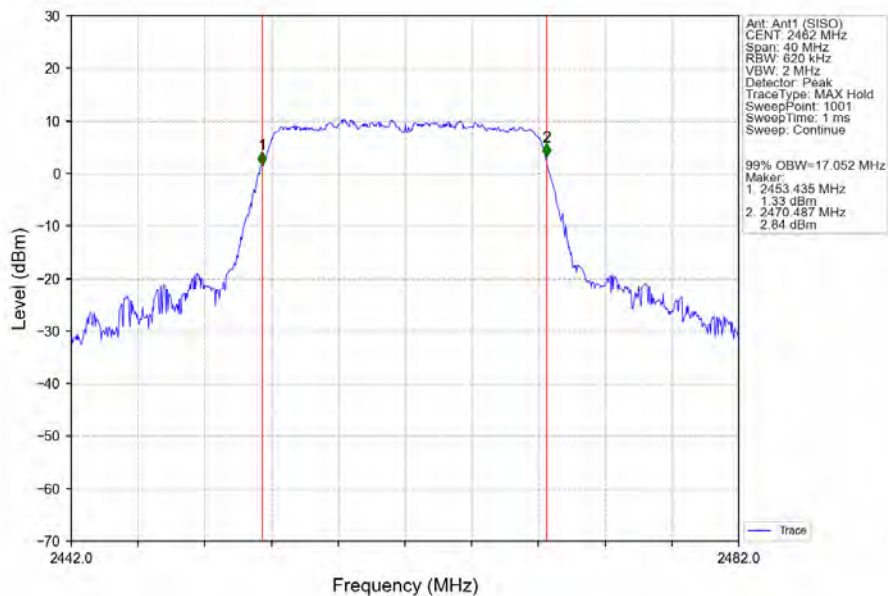
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



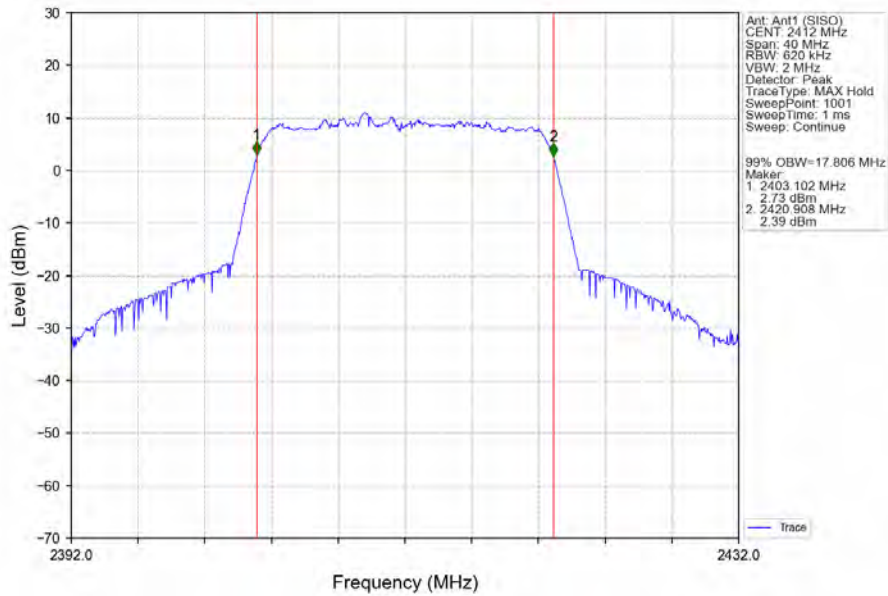
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



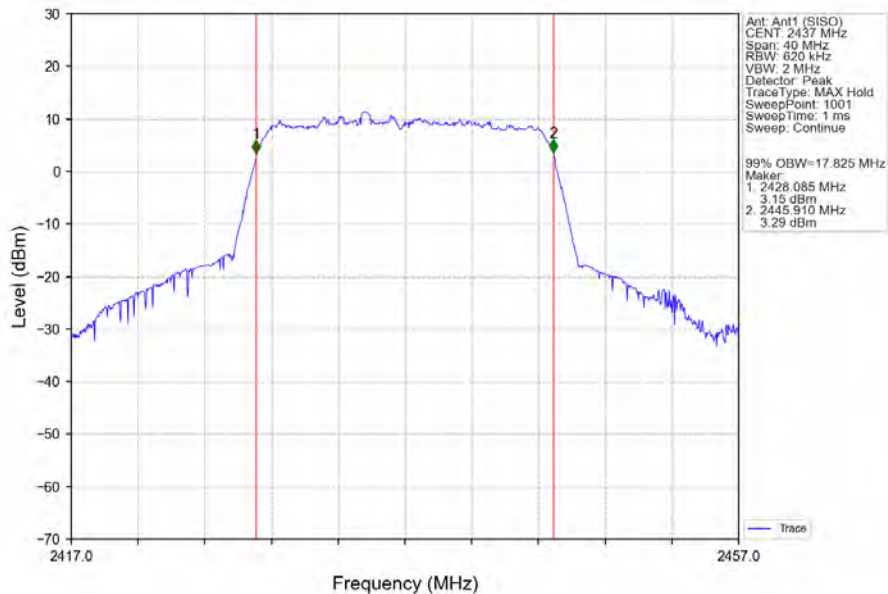
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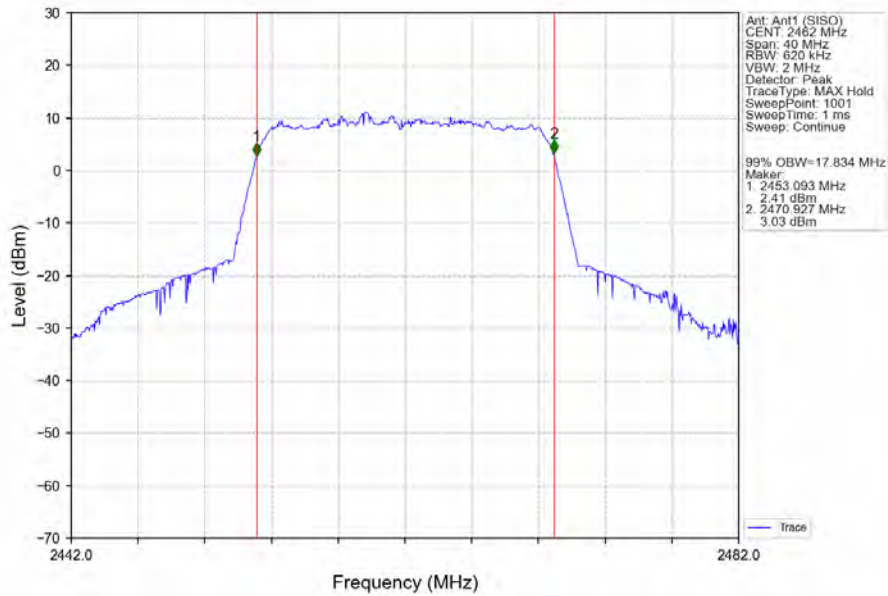
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



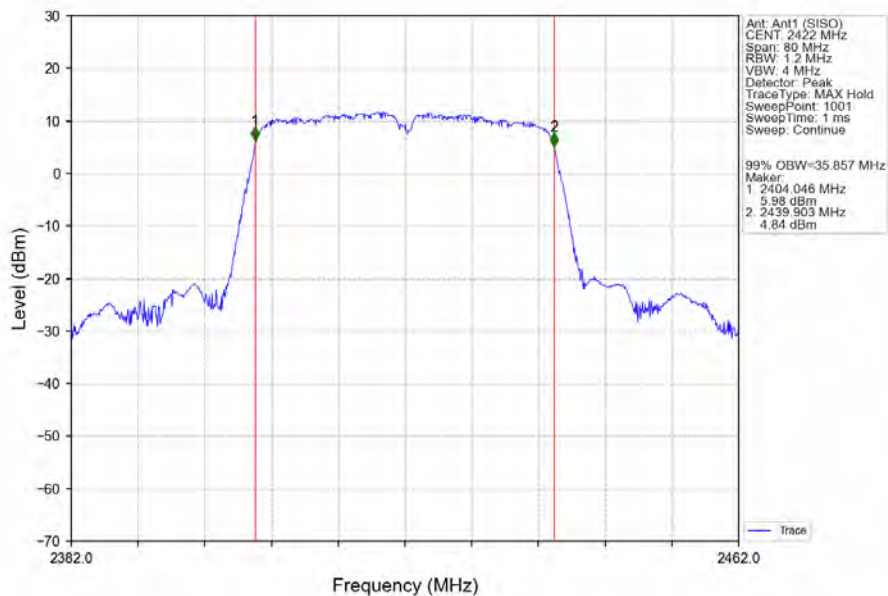
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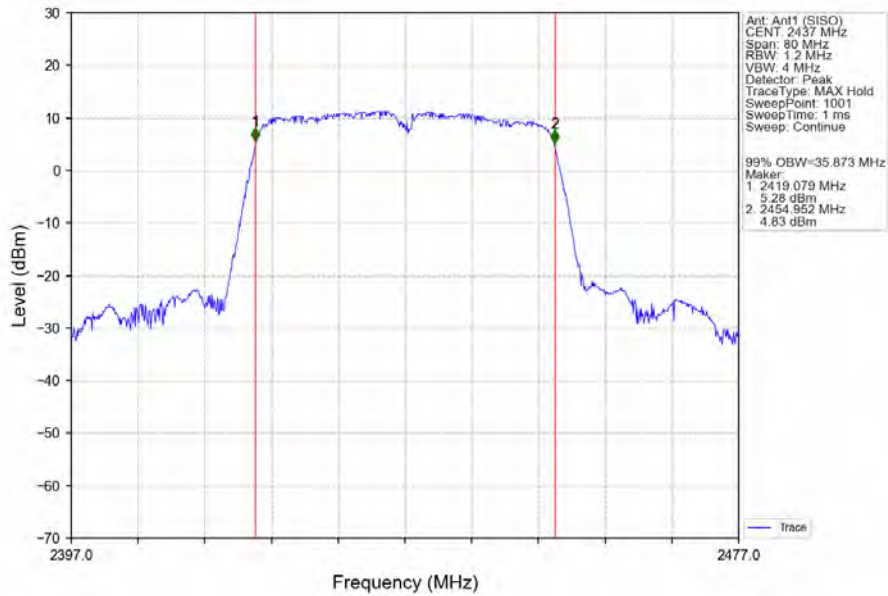
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



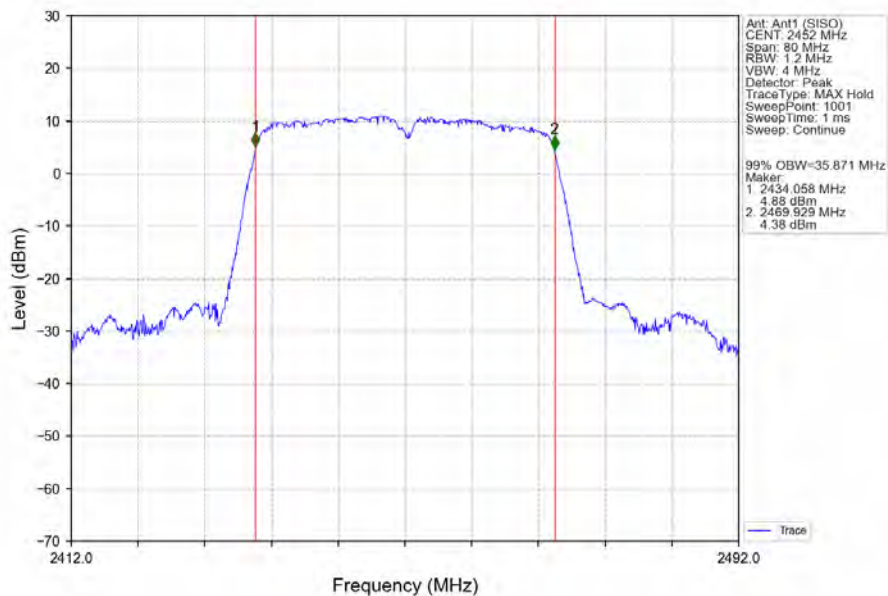
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

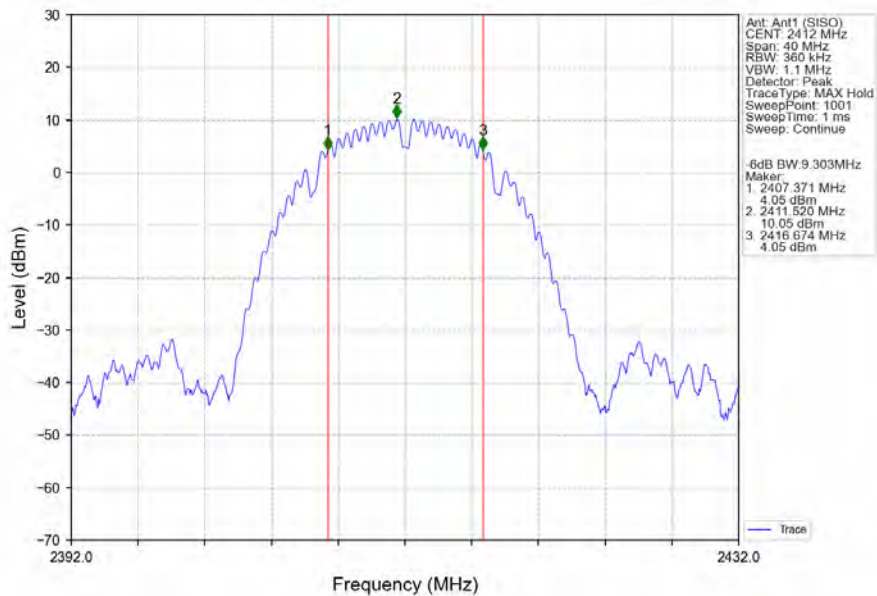


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

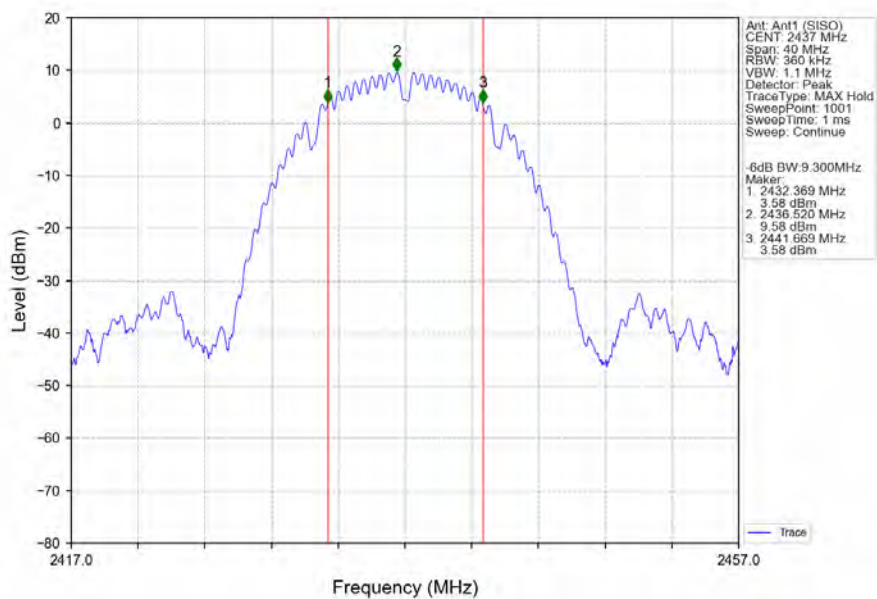


2.2.2 6dB BW

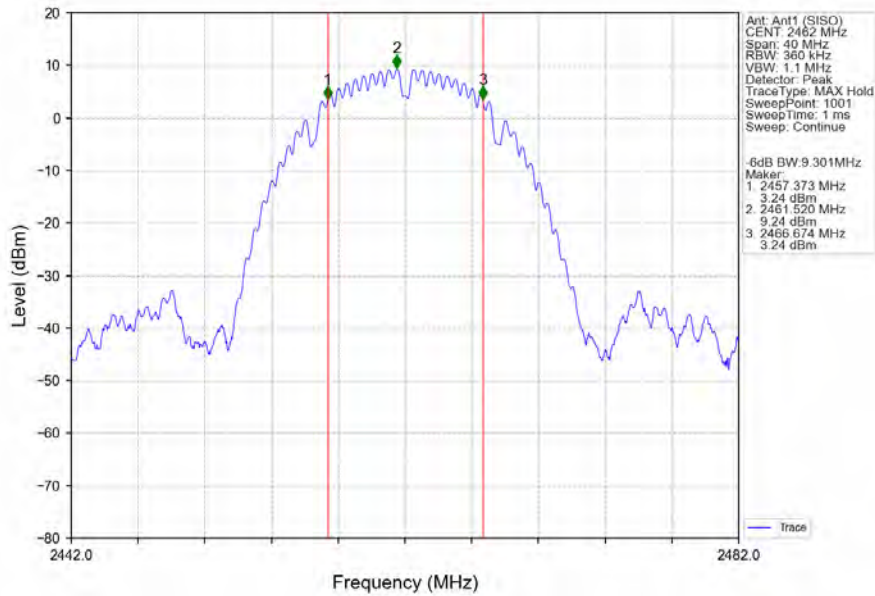
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



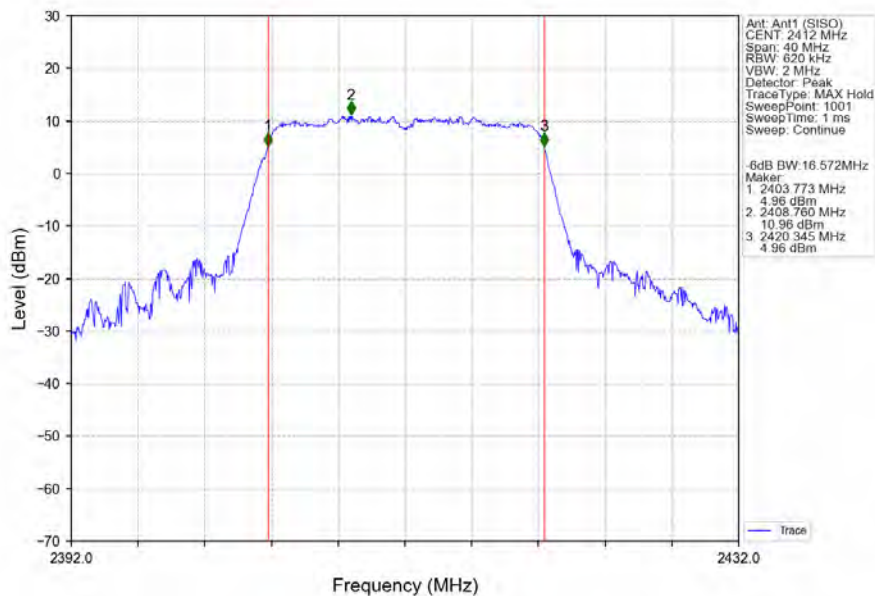
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



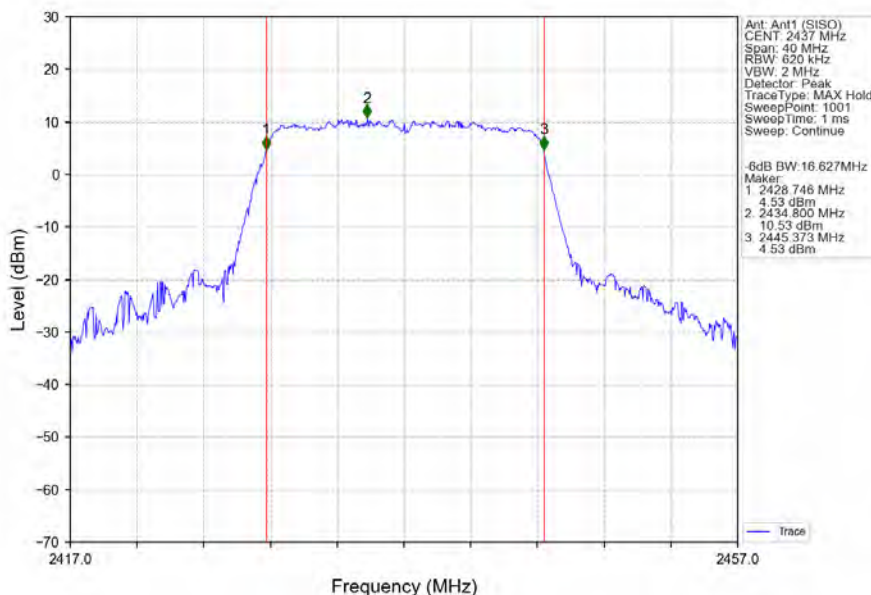
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



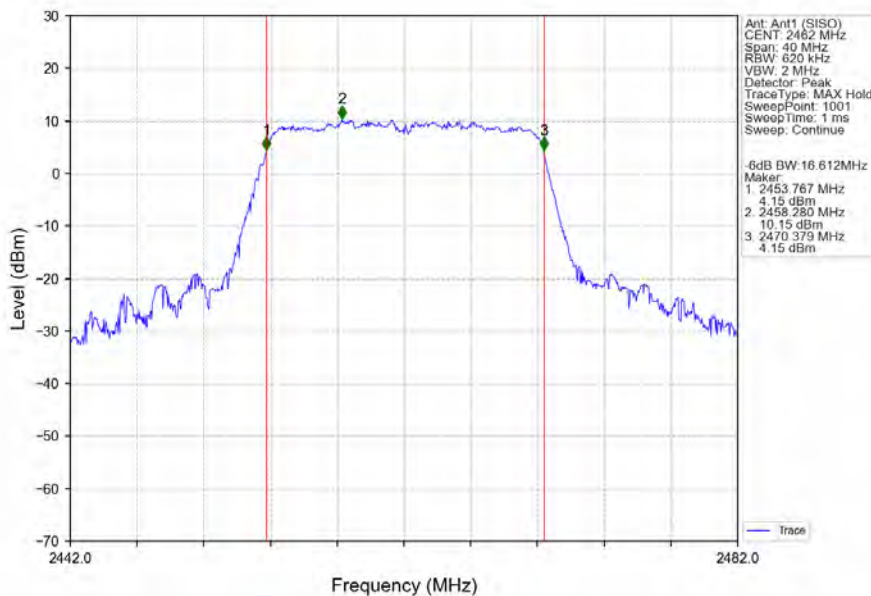
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



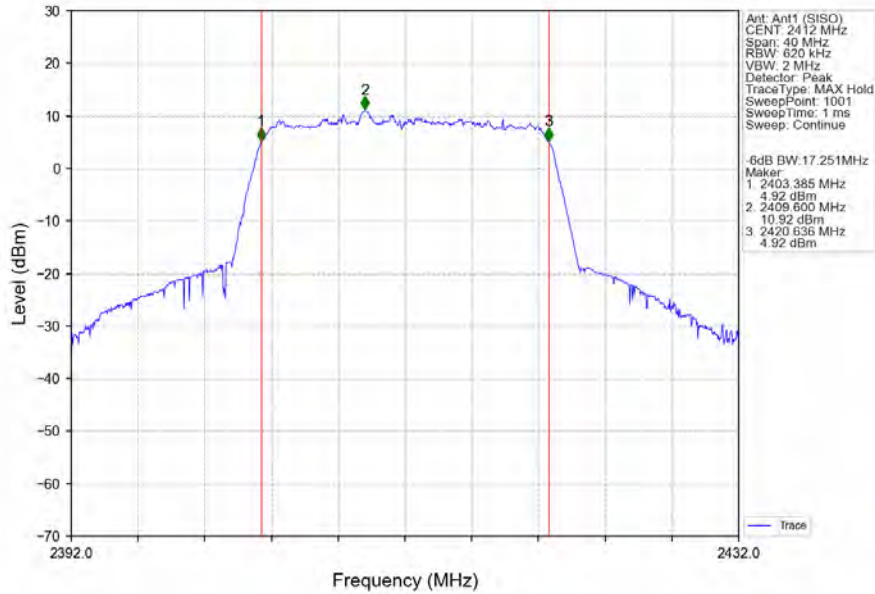
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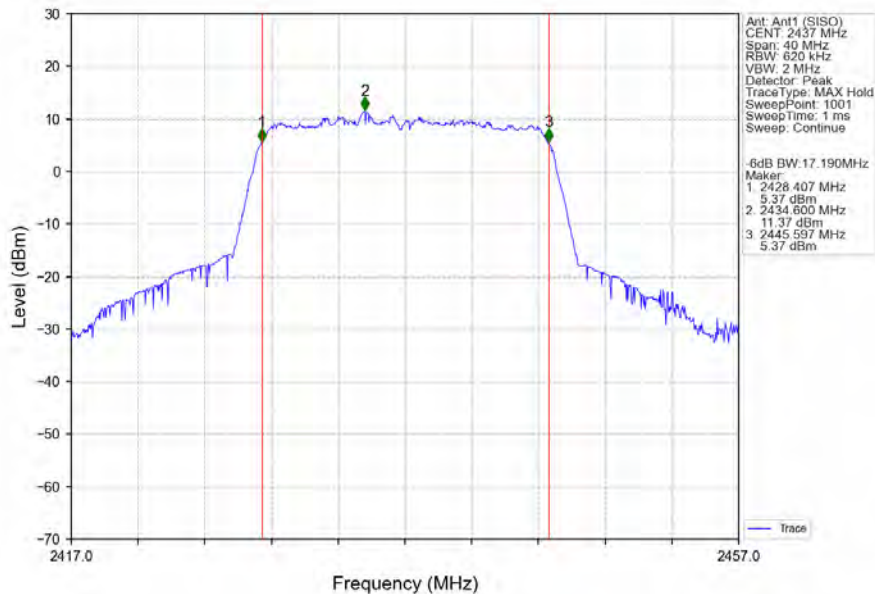
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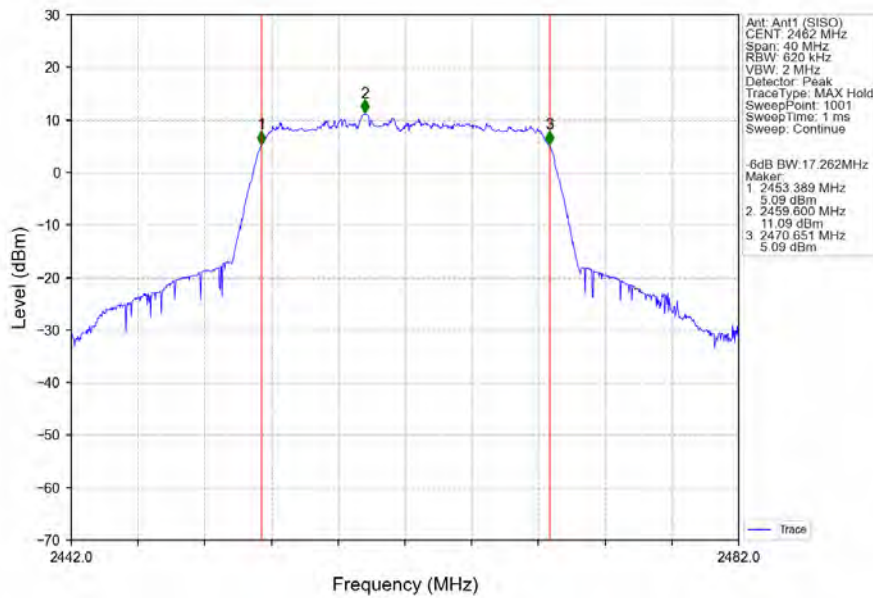
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



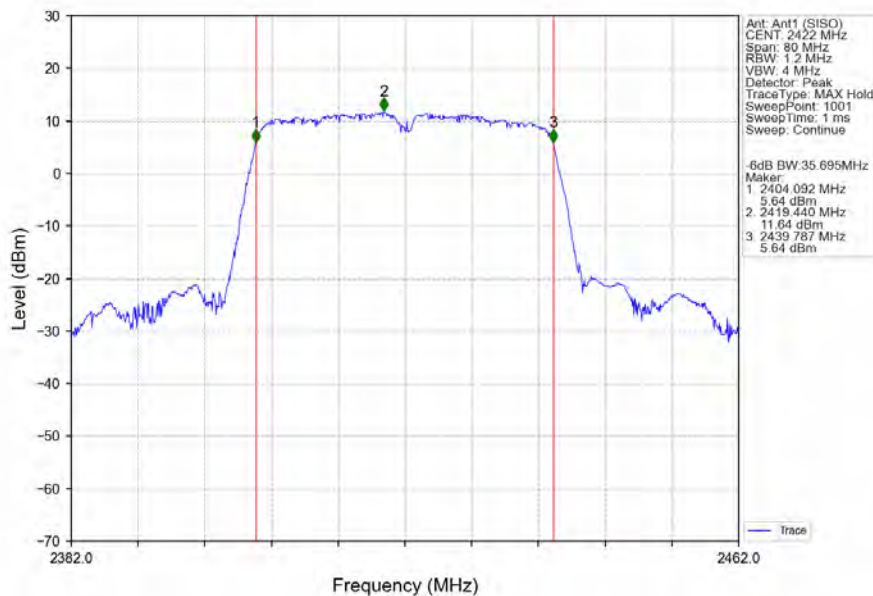
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



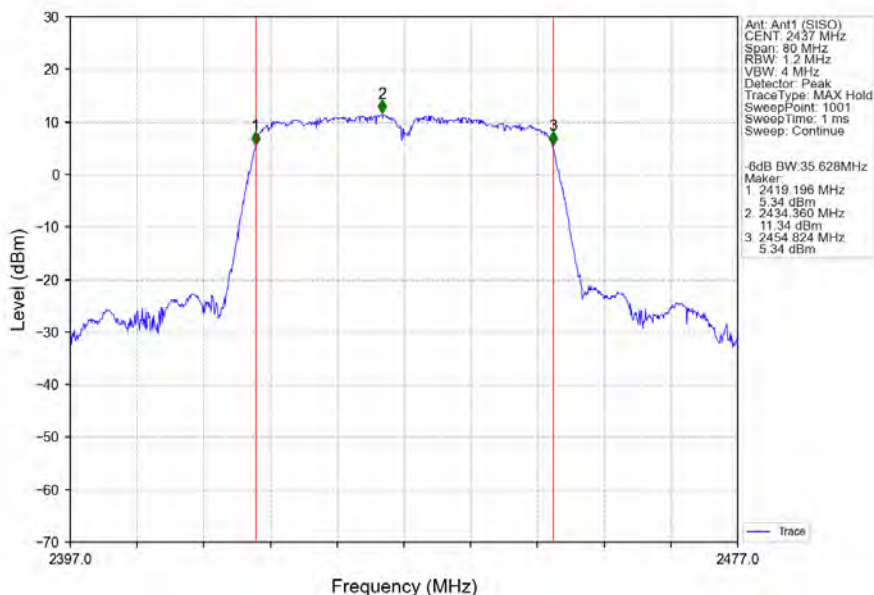
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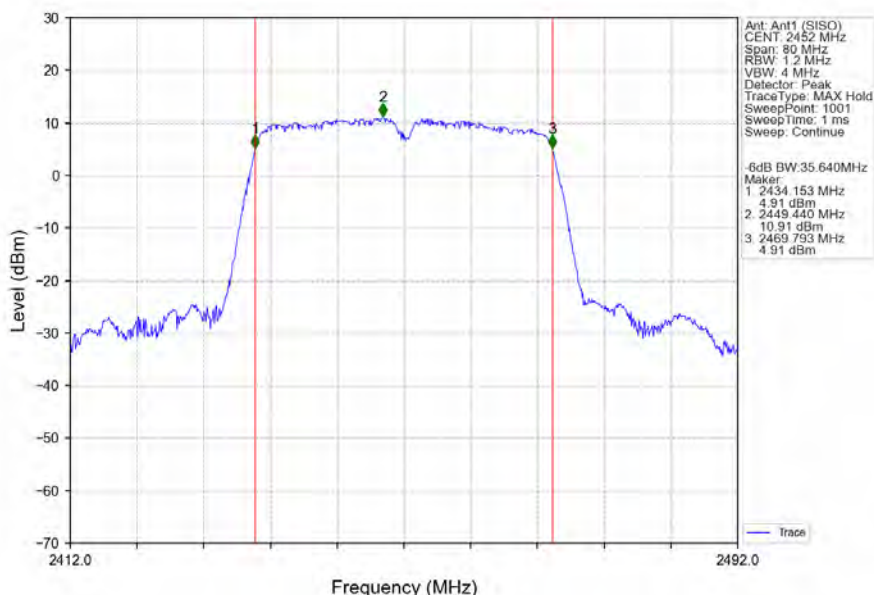
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_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	18.13	<=30	Pass
		2437	17.64	<=30	Pass
		2462	17.32	<=30	Pass
802.11g	SISO	2412	16.79	<=30	Pass
		2437	17.26	<=30	Pass
		2462	16.93	<=30	Pass
802.11n (HT20)	SISO	2412	15.70	<=30	Pass
		2437	16.20	<=30	Pass
		2462	15.92	<=30	Pass
802.11n (HT40)	SISO	2422	16.31	<=30	Pass
		2437	15.98	<=30	Pass
		2452	15.58	<=30	Pass

Note1: Antenna Gain: Ant1: 3.85dBi;

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

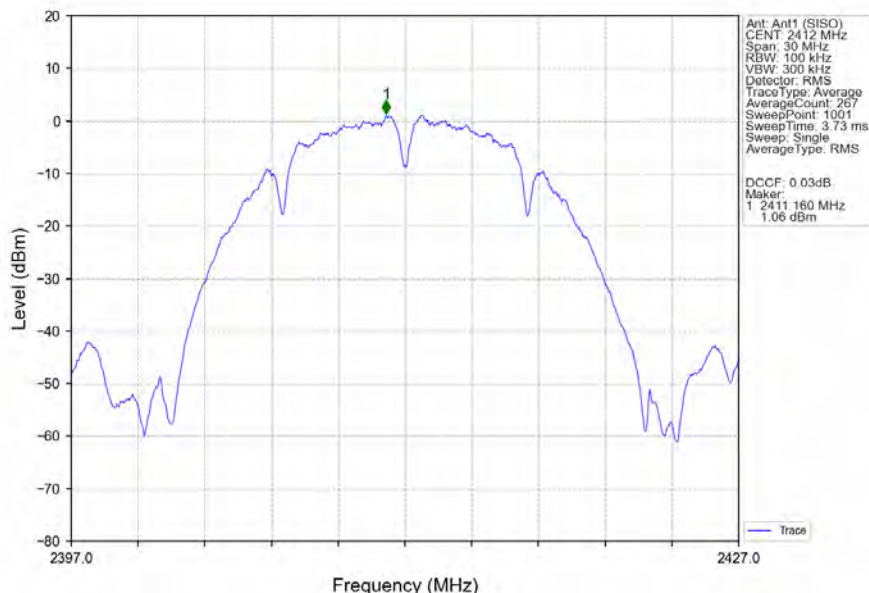
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	1.06	<=8	Pass
		2437	0.60	<=8	Pass
		2462	0.30	<=8	Pass
802.11g	SISO	2412	-3.18	<=8	Pass
		2437	-2.75	<=8	Pass
		2462	-2.65	<=8	Pass
802.11n (HT20)	SISO	2412	-4.32	<=8	Pass
		2437	-3.66	<=8	Pass
		2462	-3.97	<=8	Pass
802.11n (HT40)	SISO	2422	-5.43	<=8	Pass
		2437	-6.12	<=8	Pass
		2452	-6.35	<=8	Pass

Note1: Antenna Gain: Ant1: 3.85dBi;

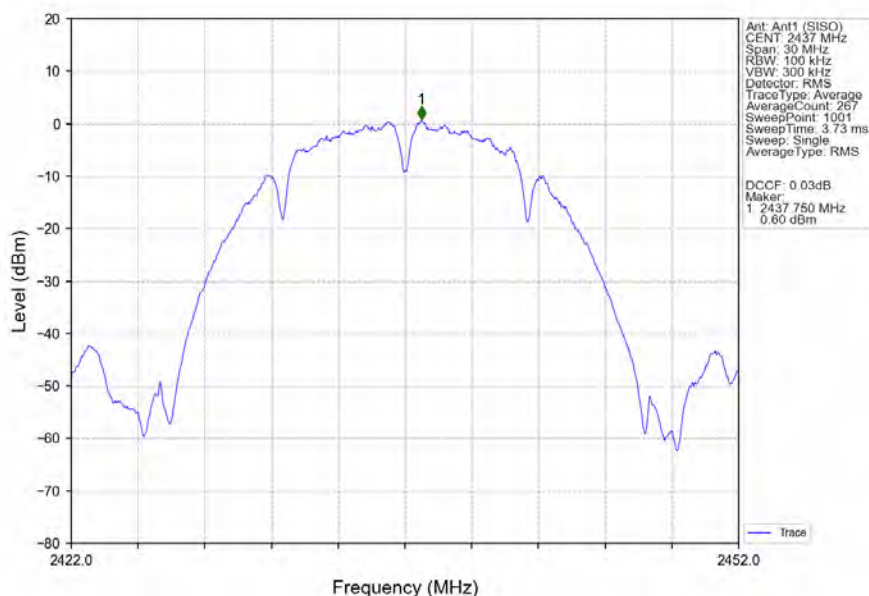
4.2 Test Graph

4.2.1 PSD

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



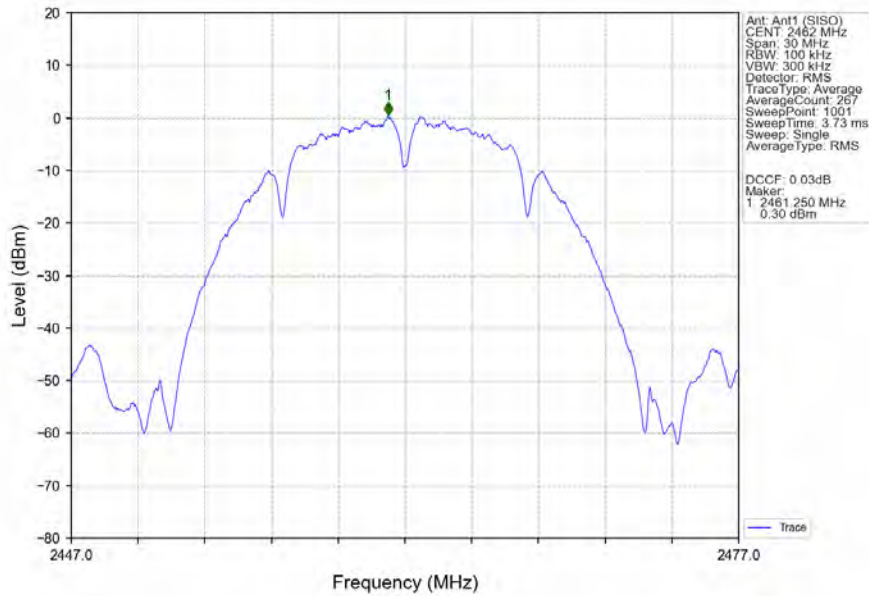
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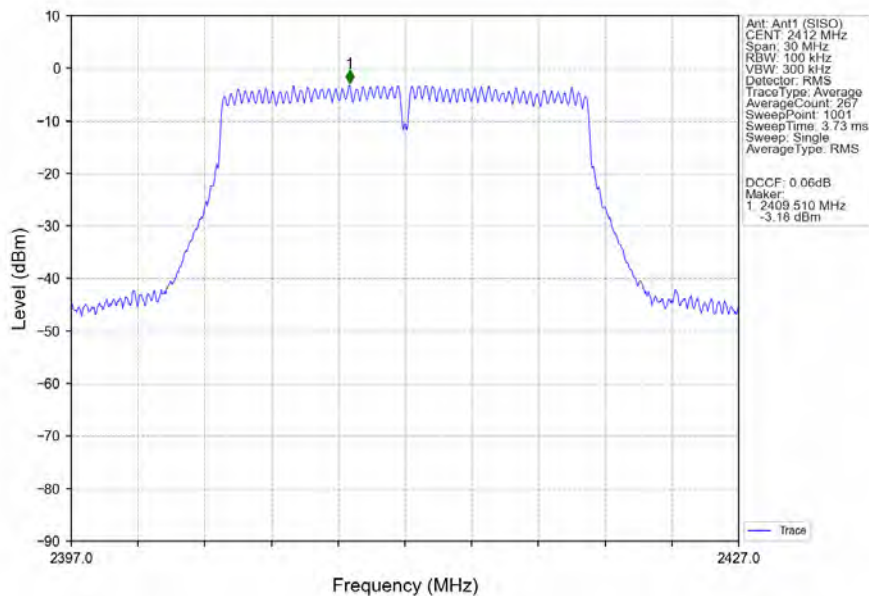
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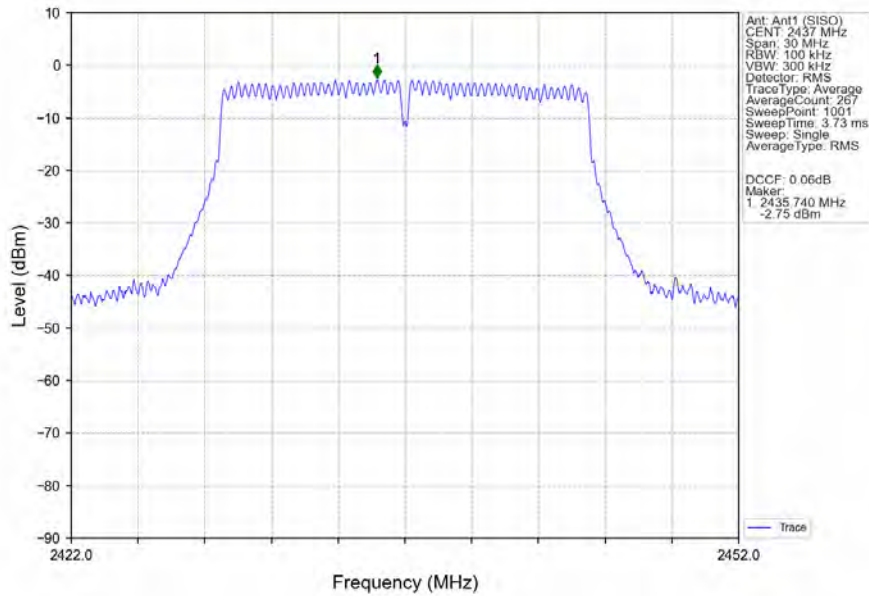
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



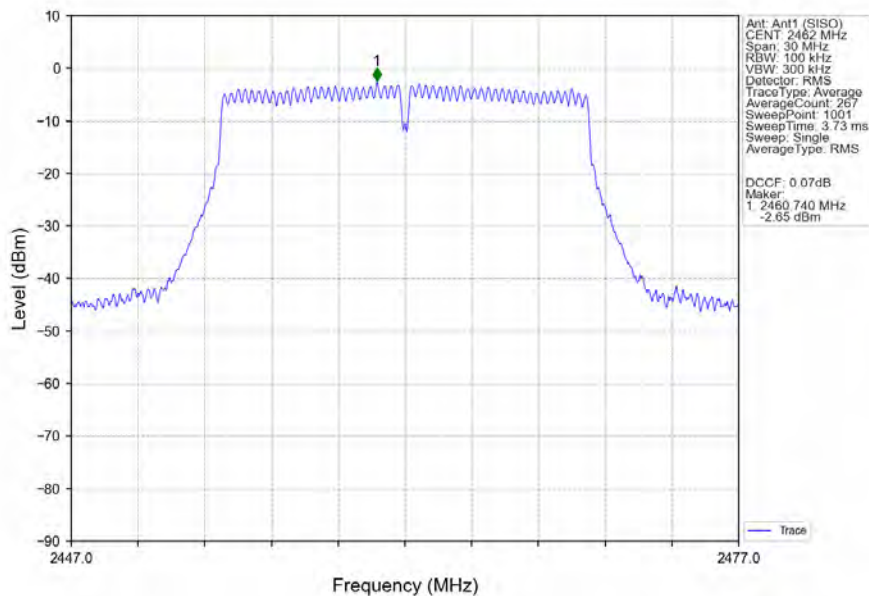
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



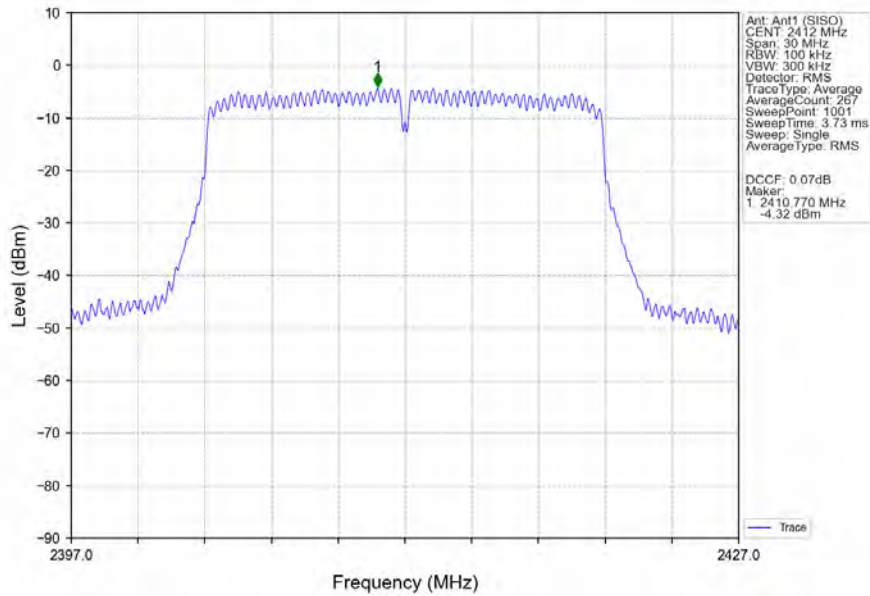
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



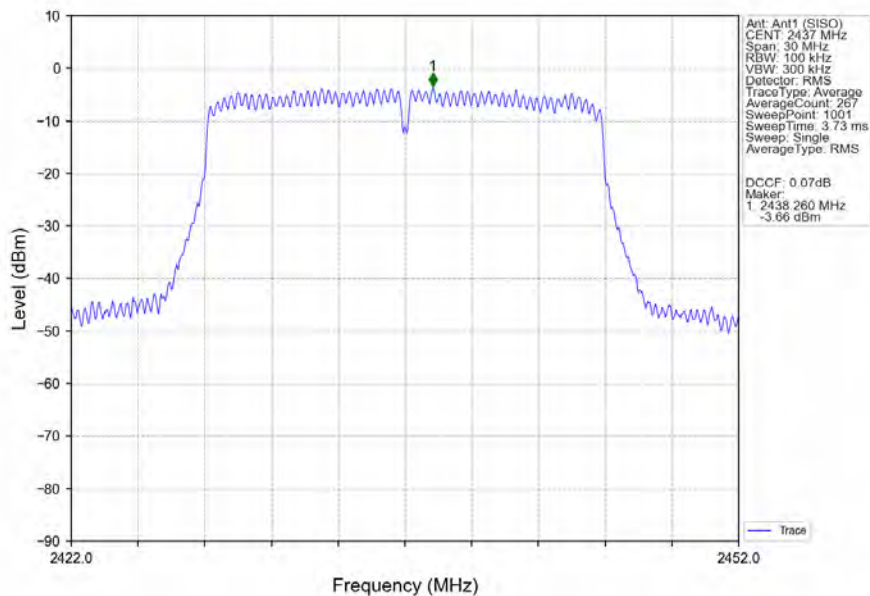
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



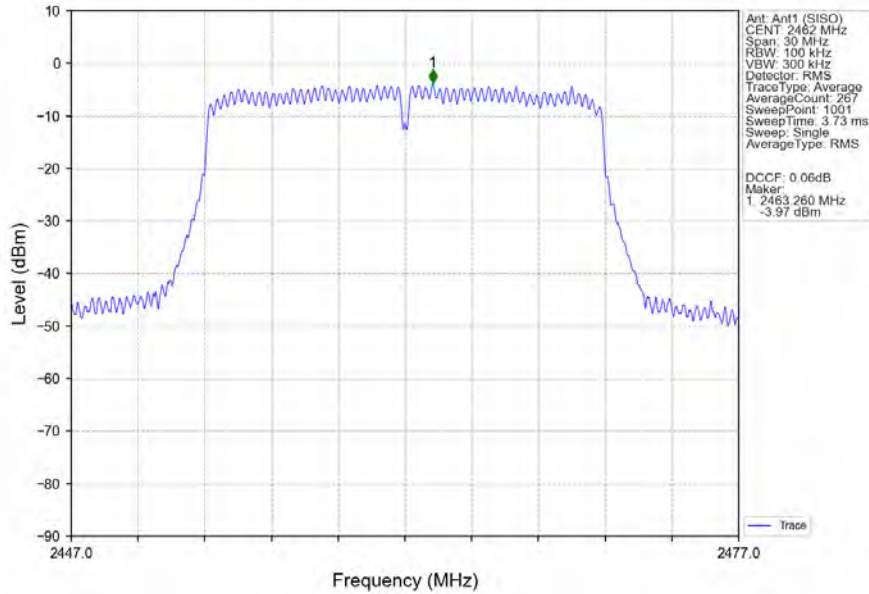
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



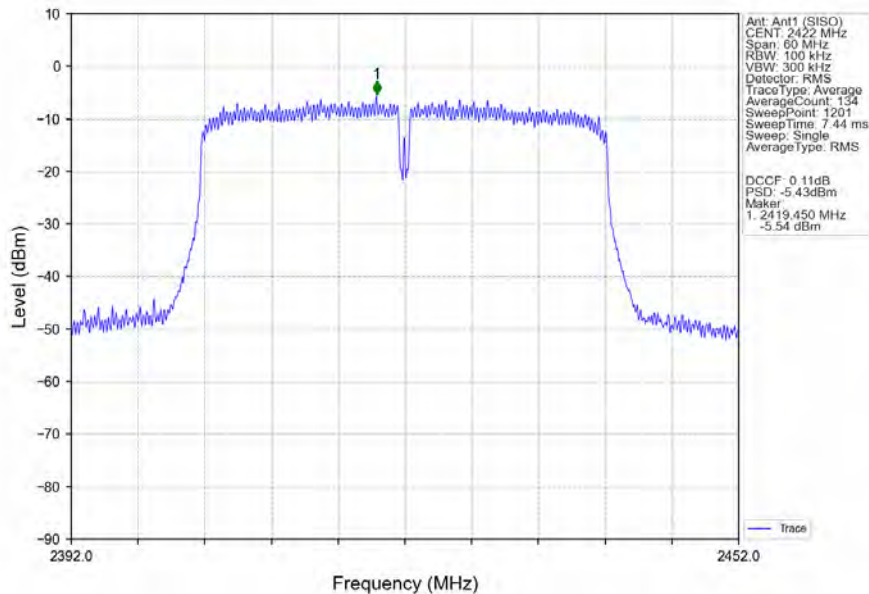
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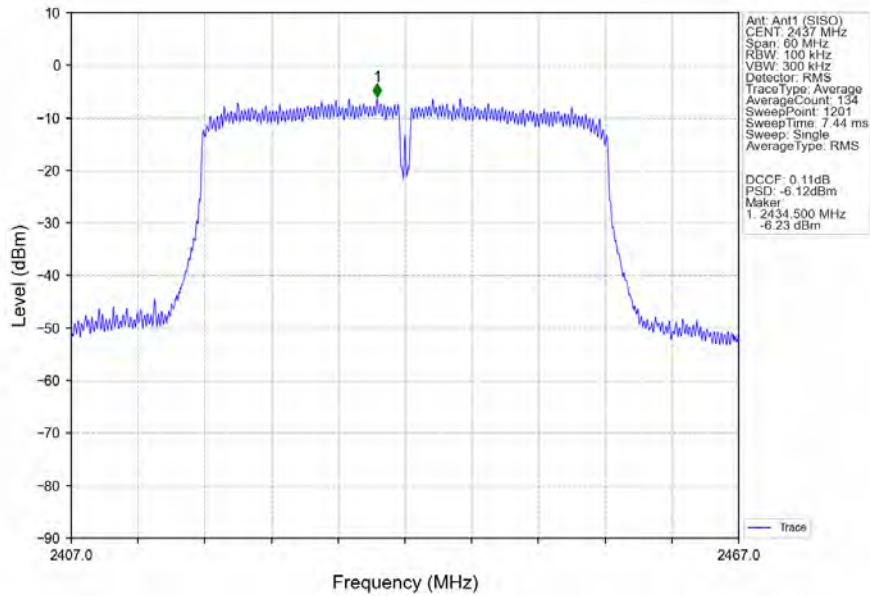
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



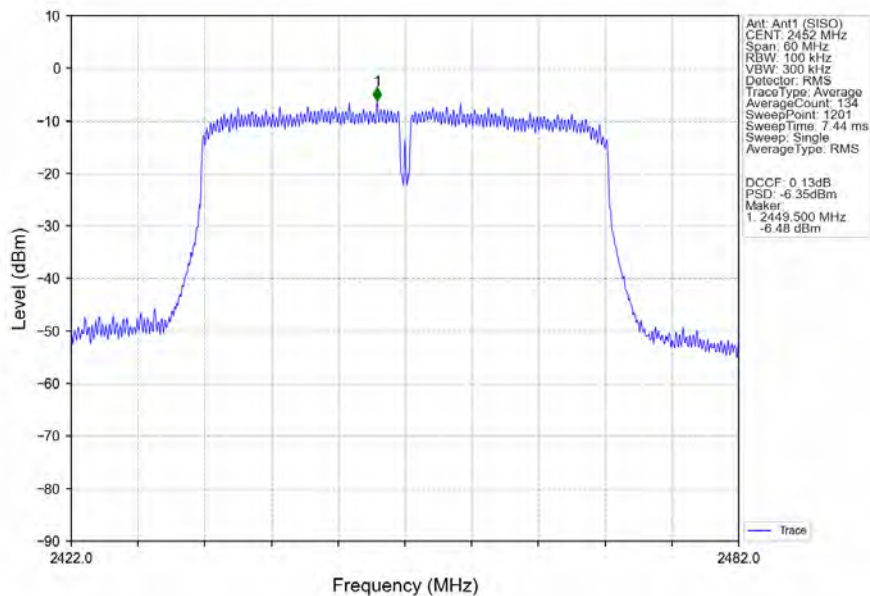
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	8.35
		2437	1	7.92
		2462	1	7.55
802.11g	SISO	2412	1	5.91
		2437	1	6.46
		2462	1	6.14
802.11n (HT20)	SISO	2412	1	5.07
		2437	1	5.52
		2462	1	5.26
802.11n (HT40)	SISO	2422	1	2.66
		2437	1	2.52
		2452	1	1.98

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.

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

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5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.35	-21.65	Pass
		2437	1	8.35	-21.65	Pass
		2462	1	8.35	-21.65	Pass
802.11g	SISO	2412	1	6.46	-23.54	Pass
		2437	1	6.46	-23.54	Pass
		2462	1	6.46	-23.54	Pass
802.11n (HT20)	SISO	2412	1	5.52	-24.48	Pass
		2437	1	5.52	-24.48	Pass
		2462	1	5.52	-24.48	Pass
802.11n (HT40)	SISO	2422	1	2.66	-27.34	Pass
		2437	1	2.66	-27.34	Pass
		2452	1	2.66	-27.34	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.



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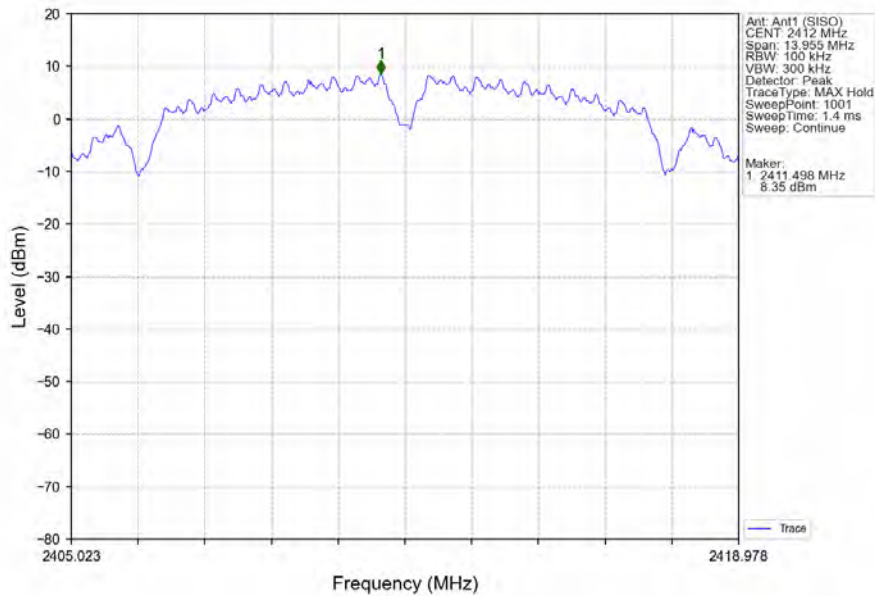
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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

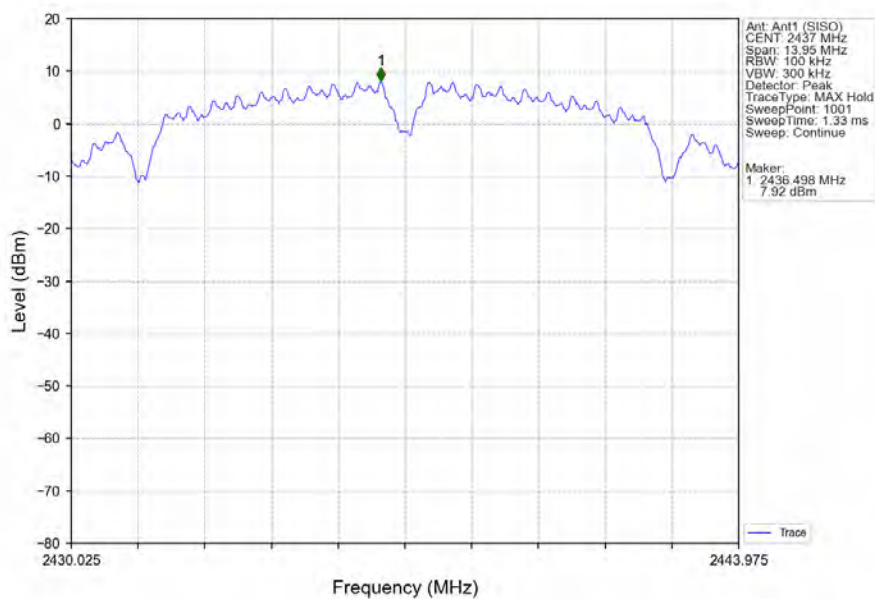
5.2 Test Graph

5.2.1 Ref

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



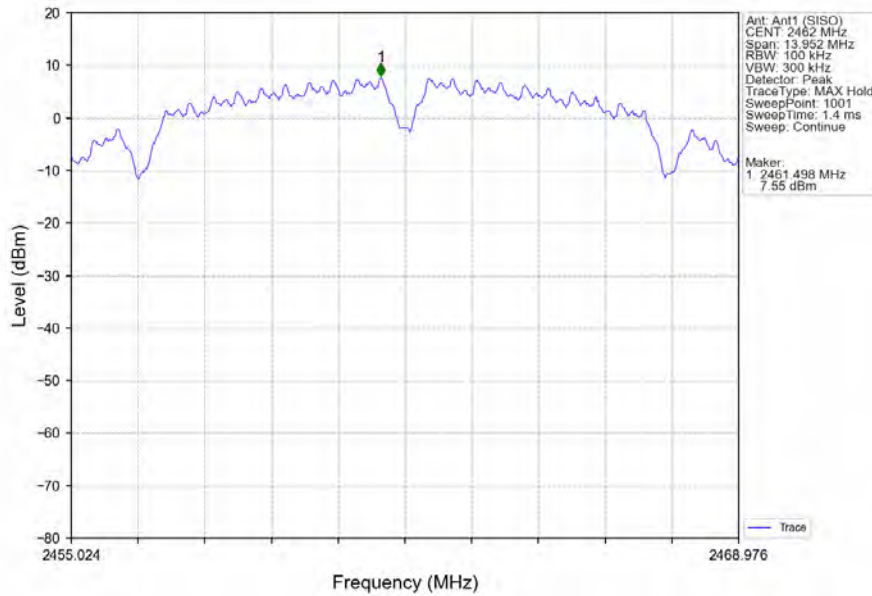
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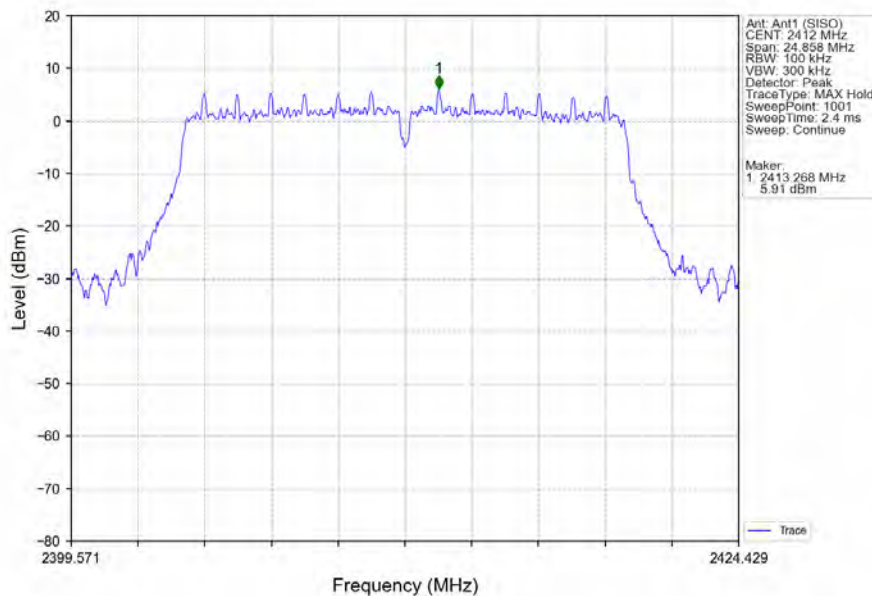
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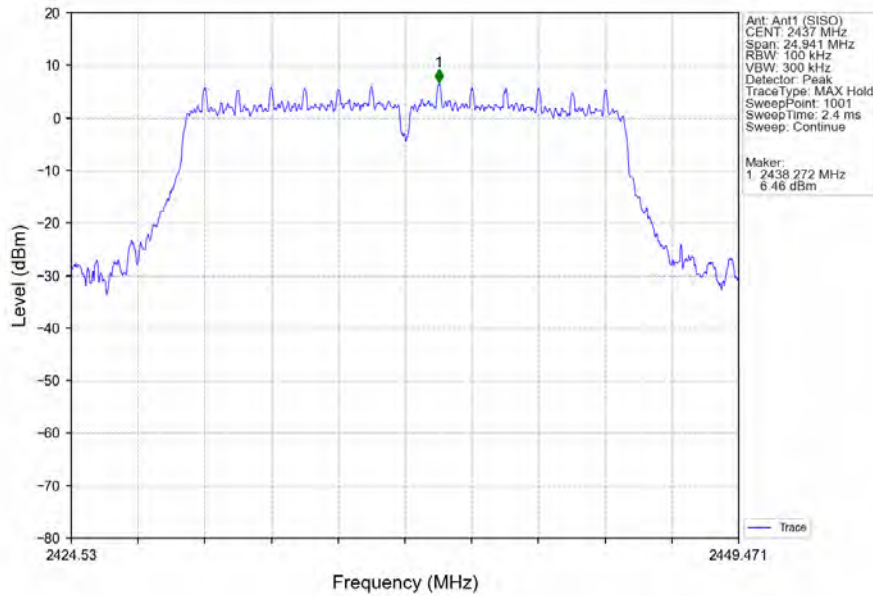
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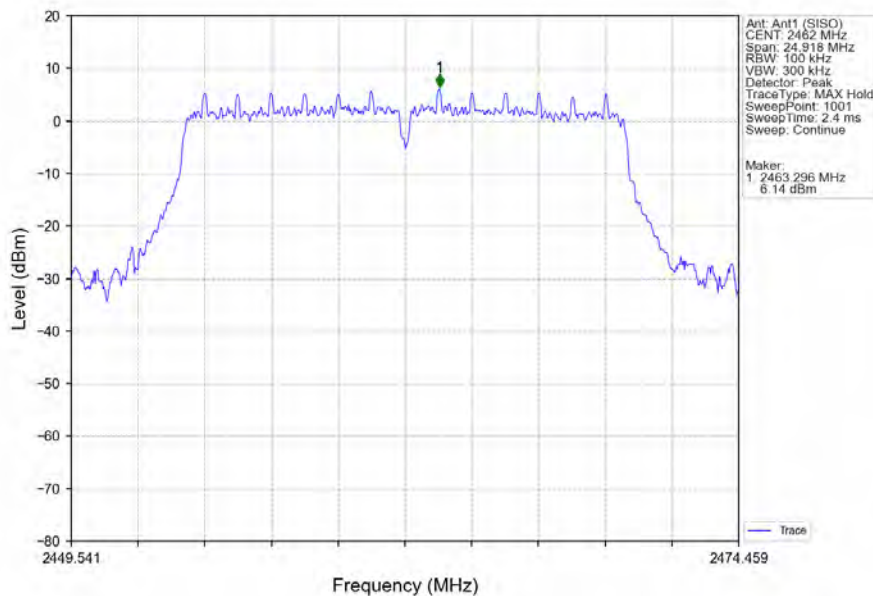
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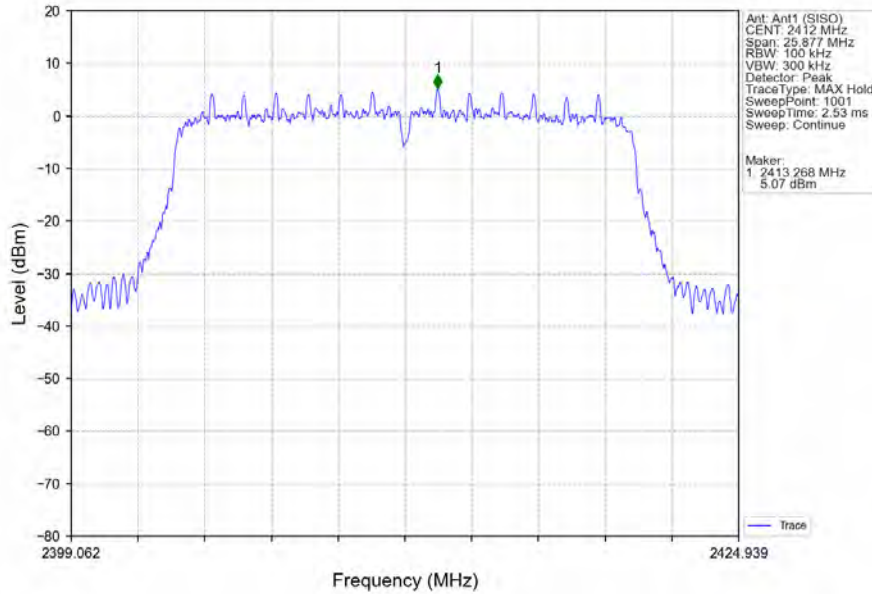
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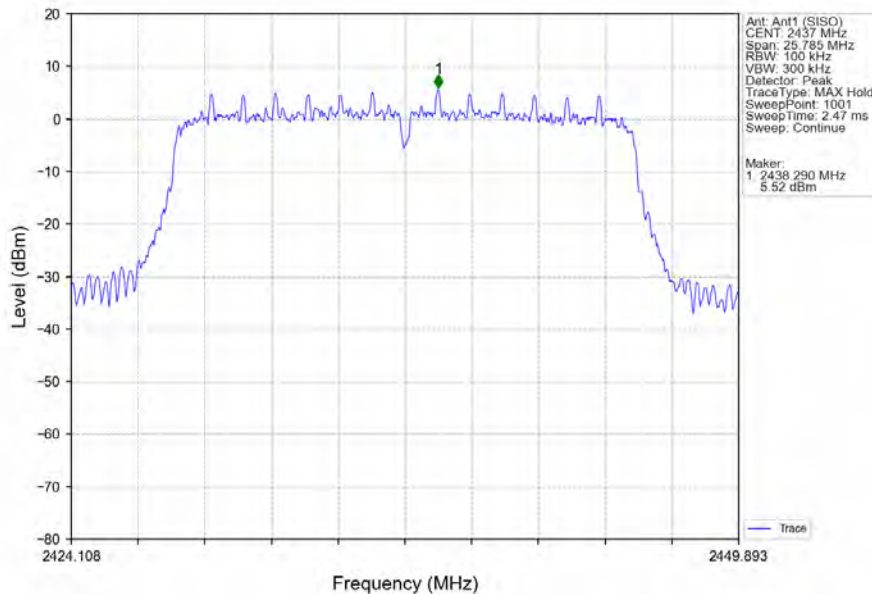
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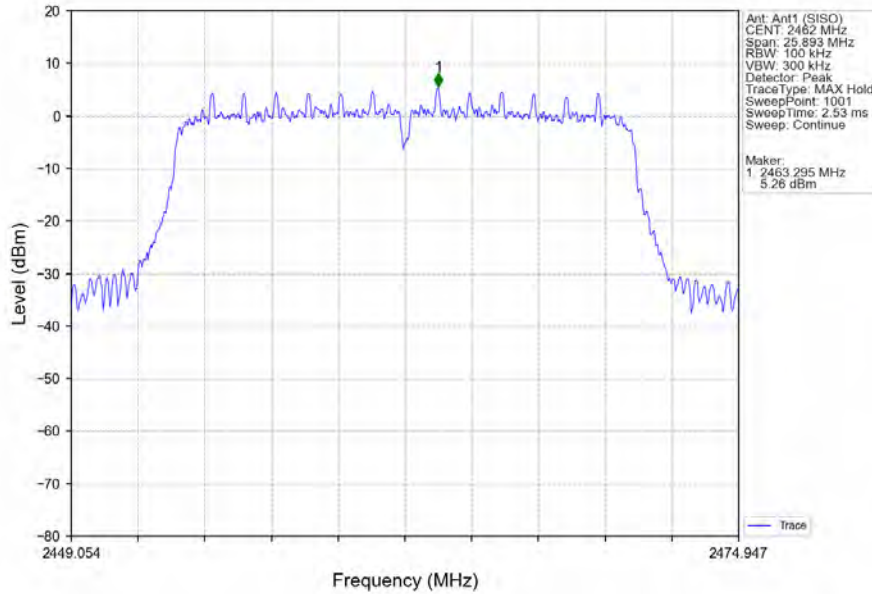
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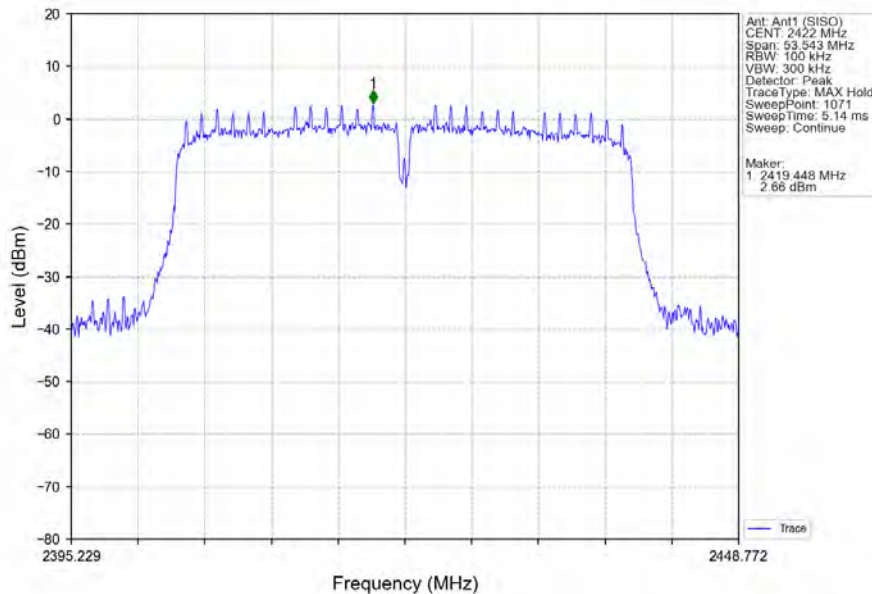
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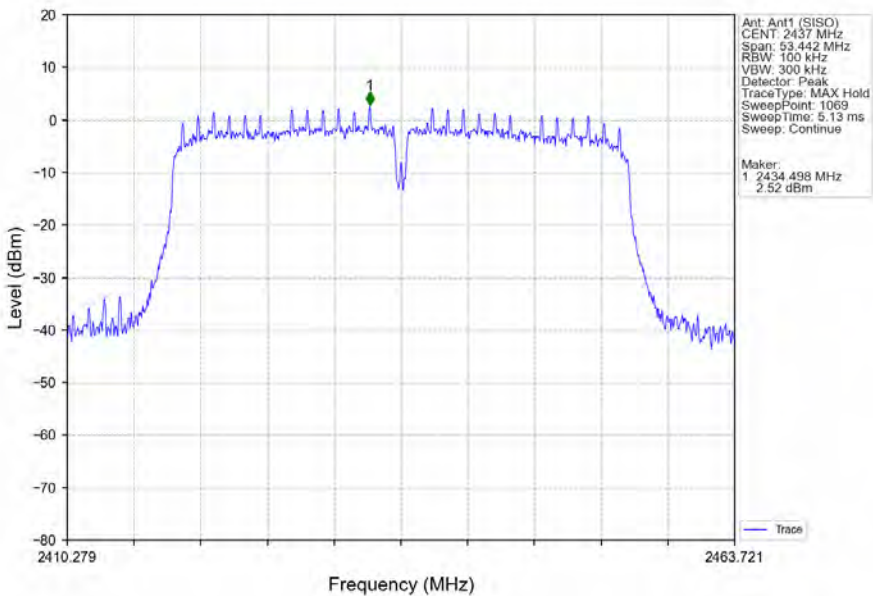
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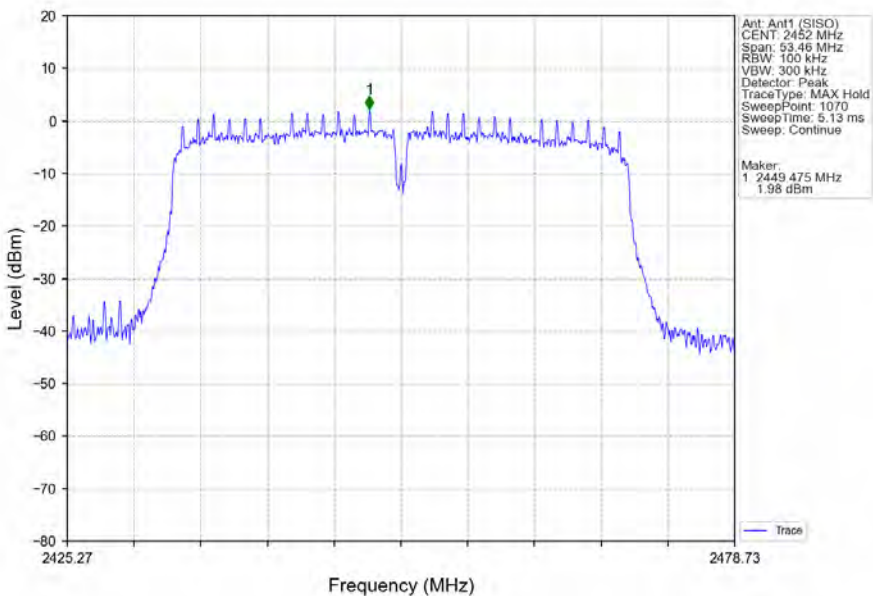
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

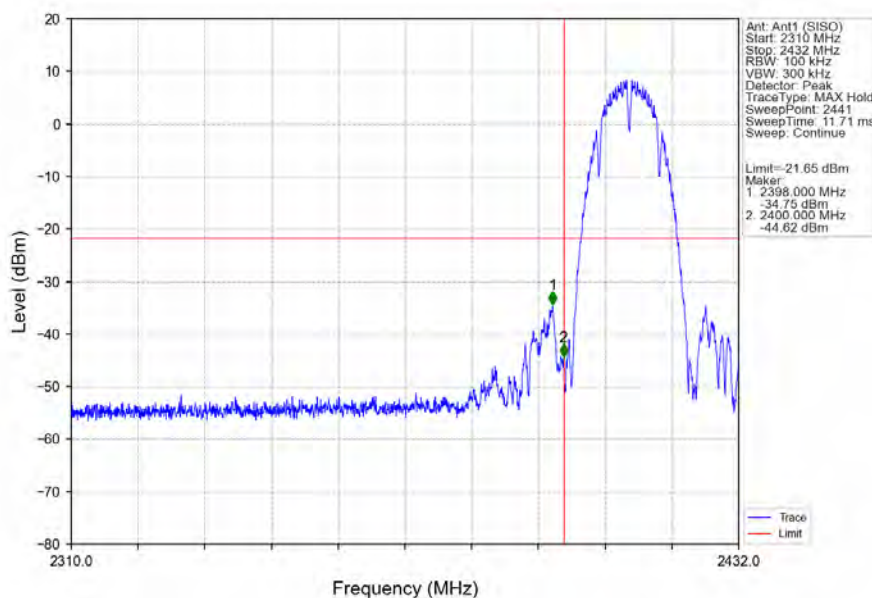


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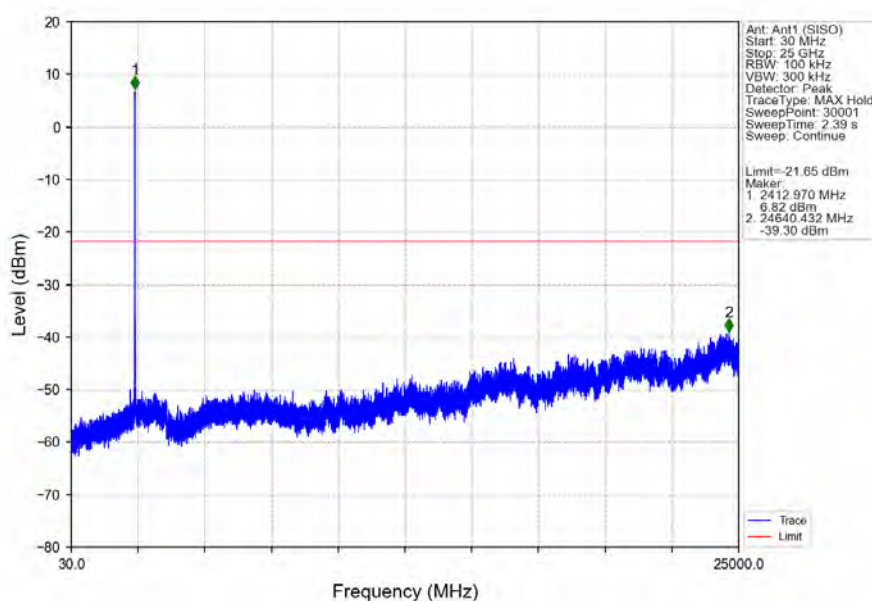


5.2.2 CSE

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



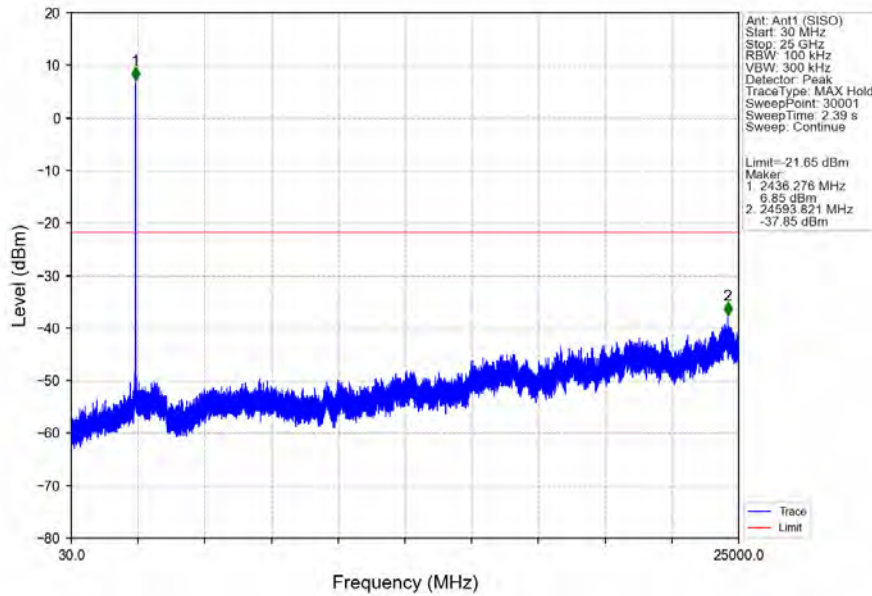
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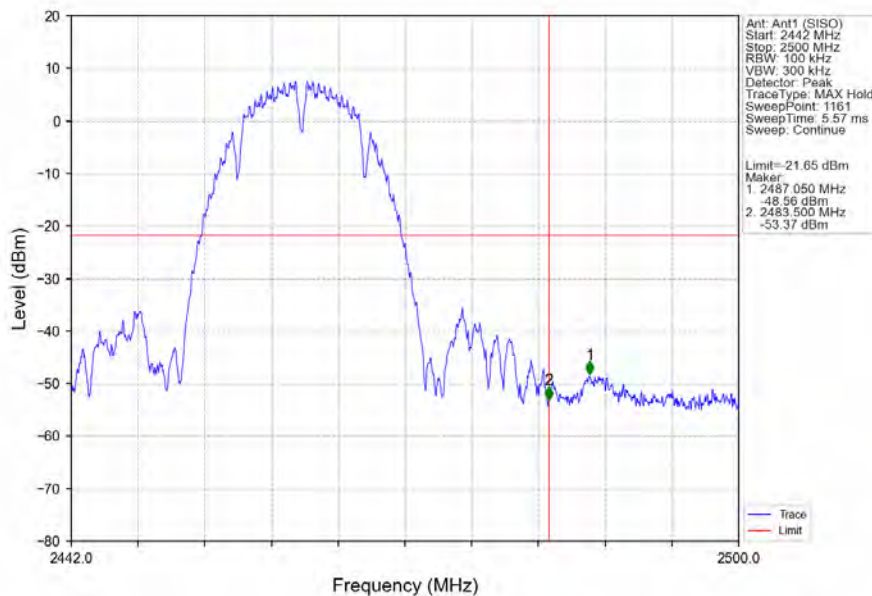
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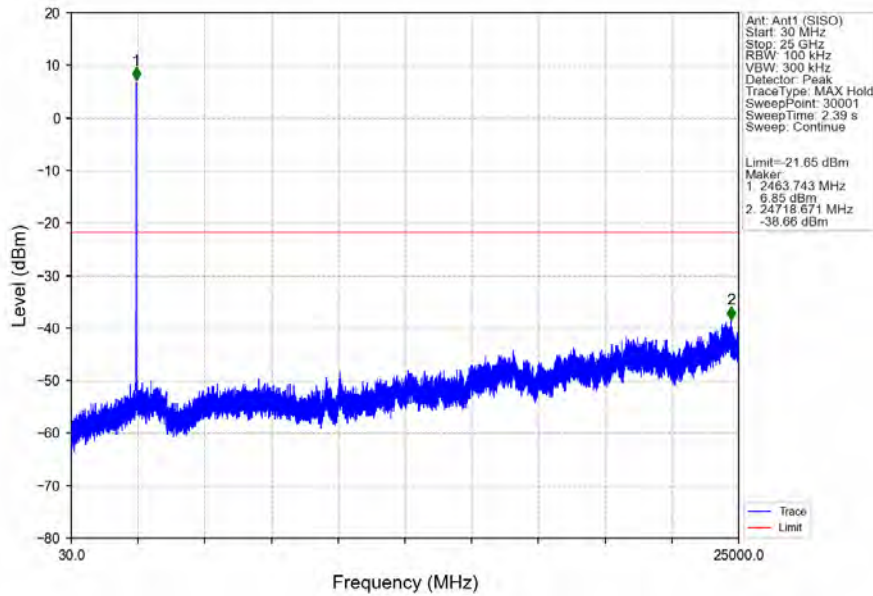
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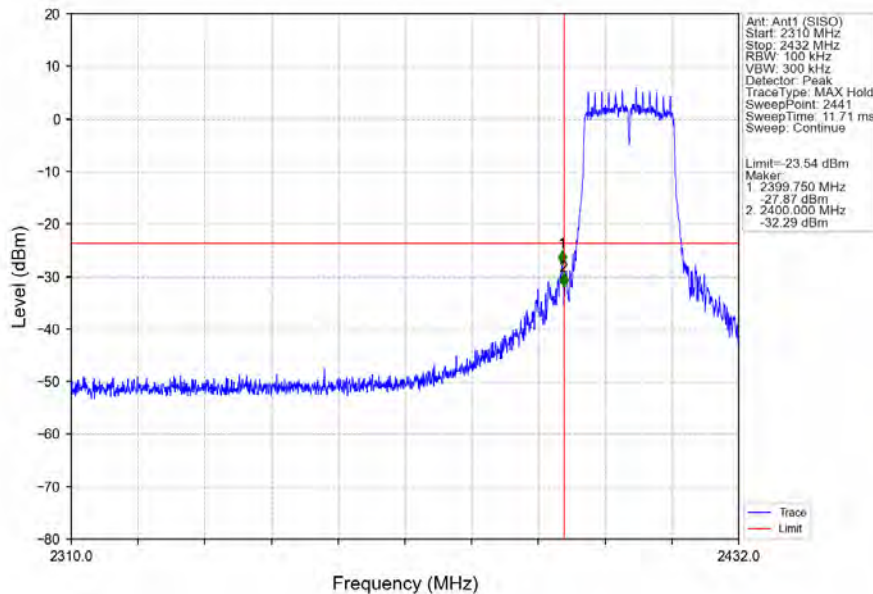
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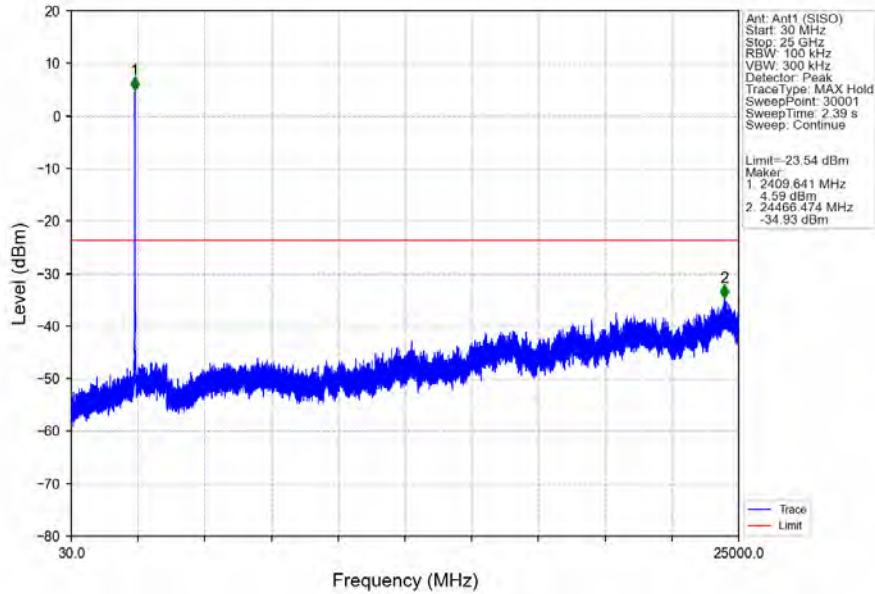
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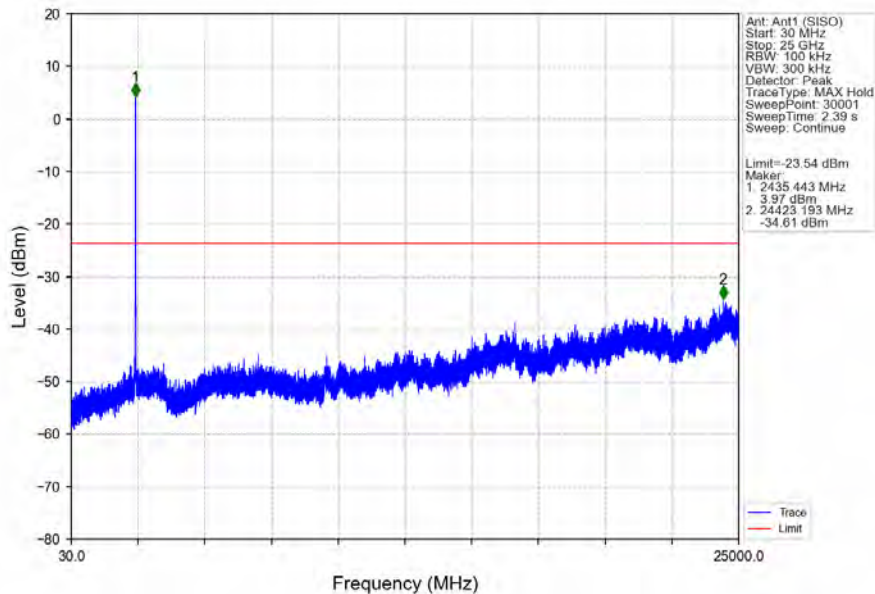
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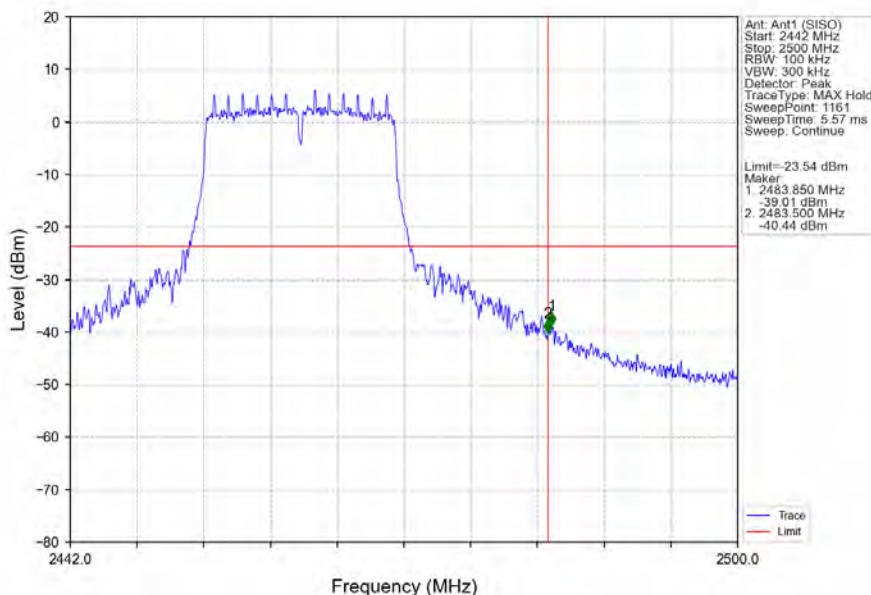
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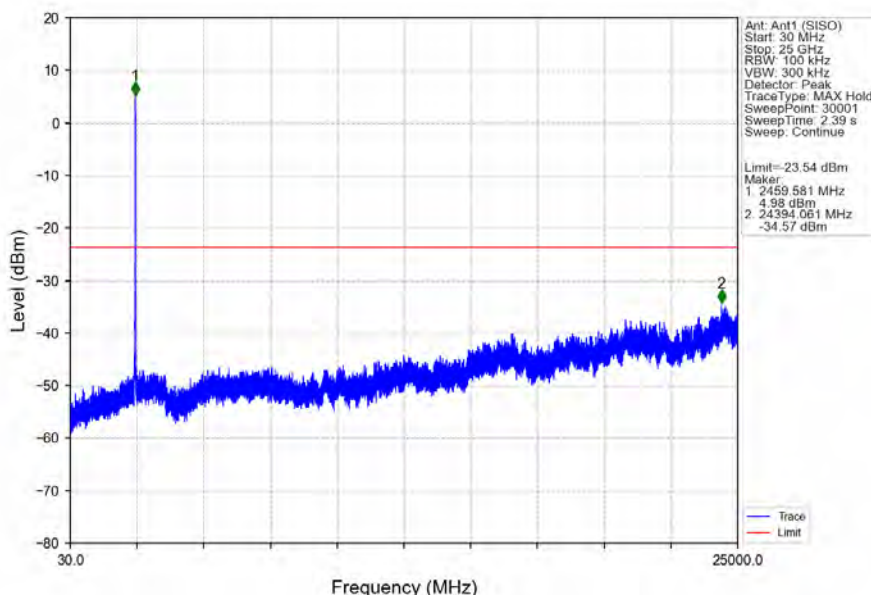
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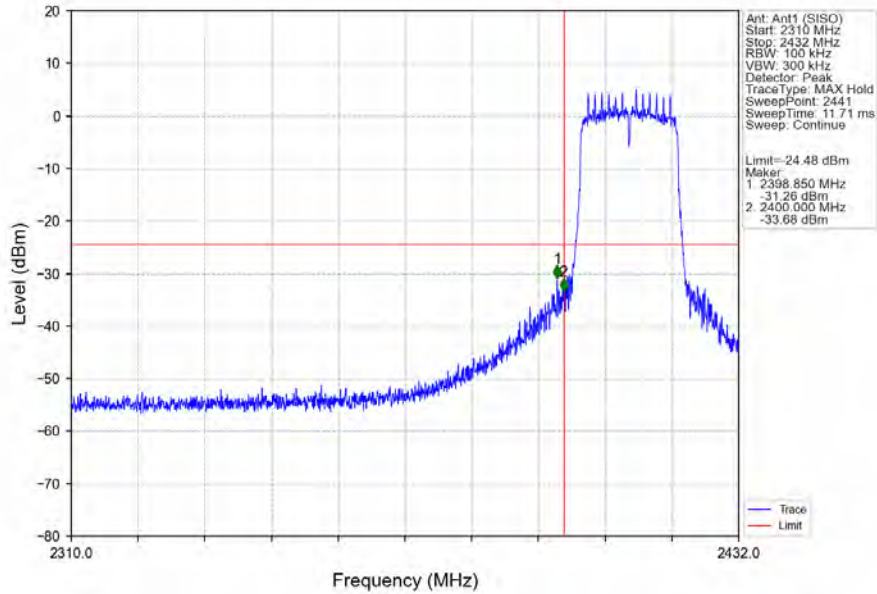
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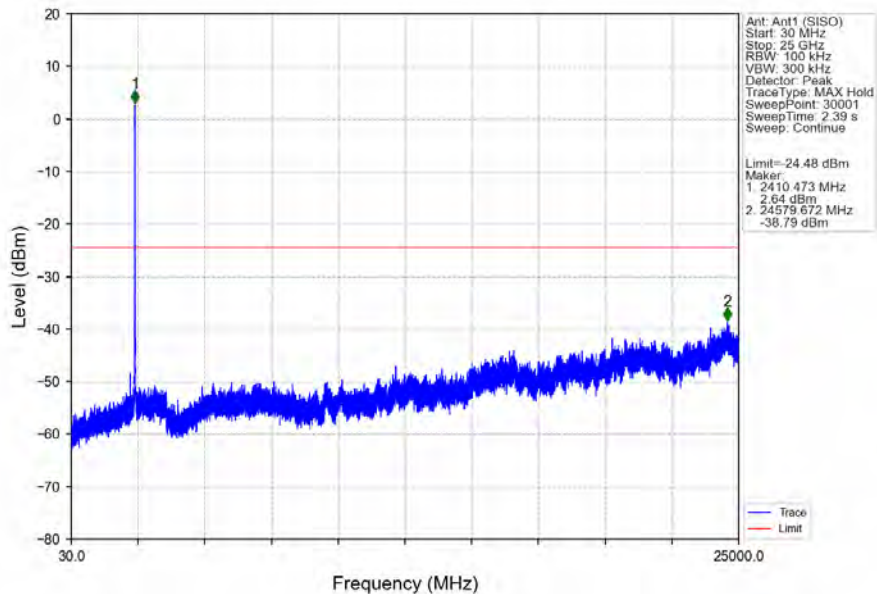
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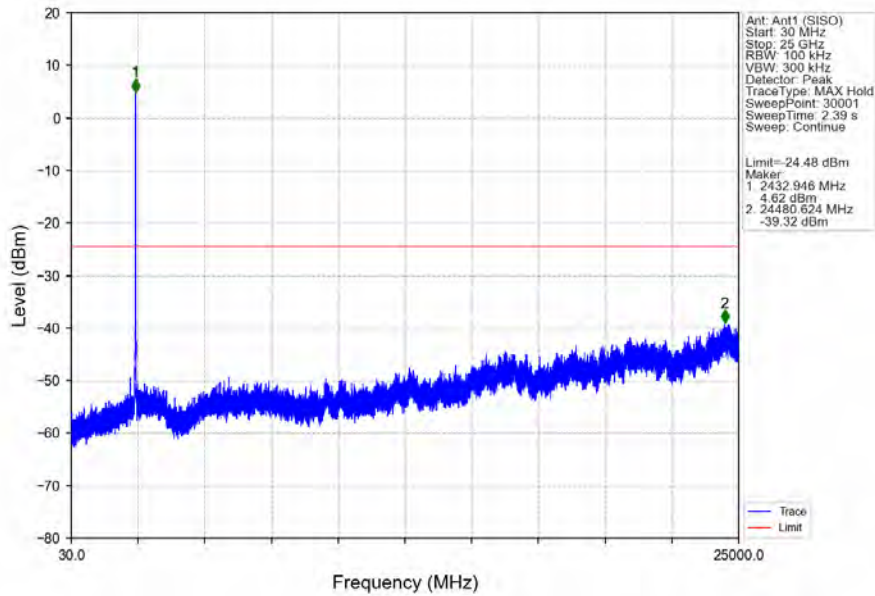
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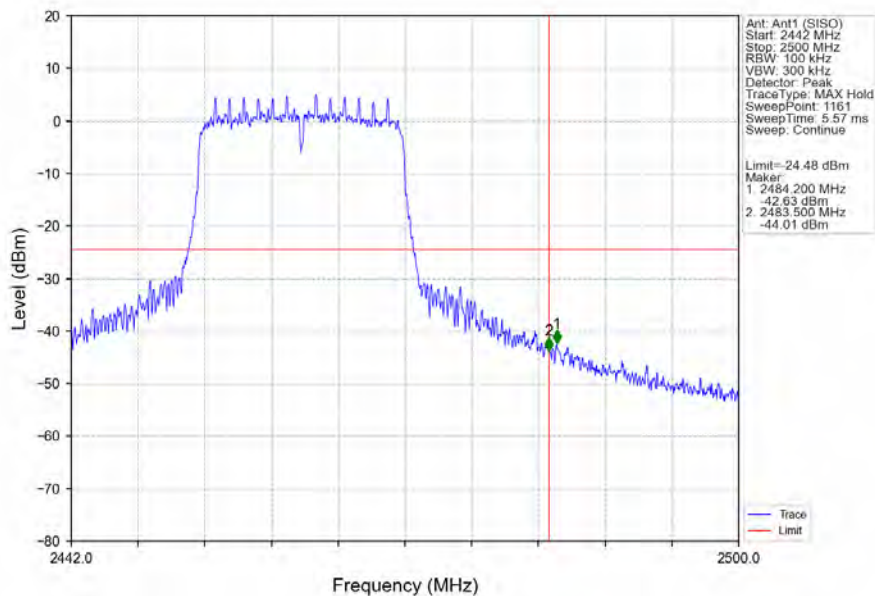
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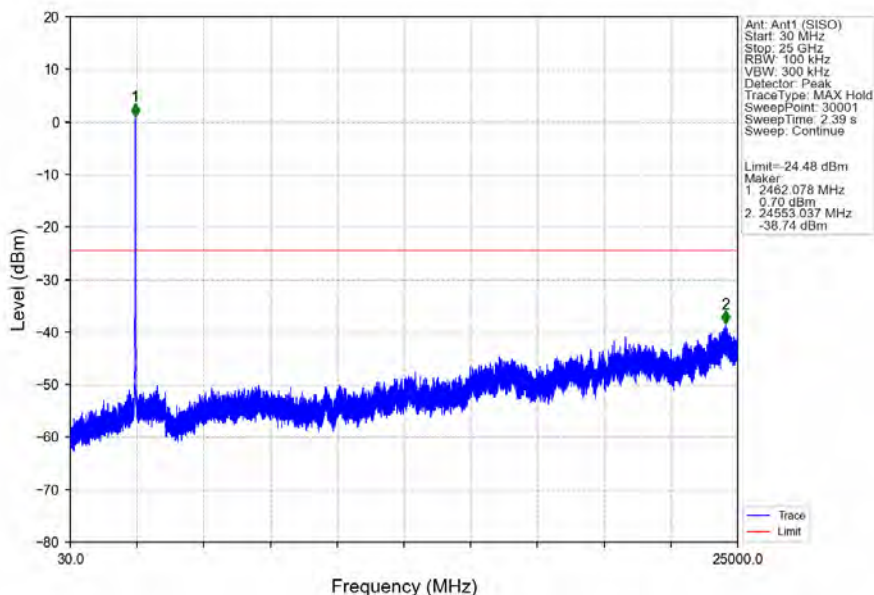
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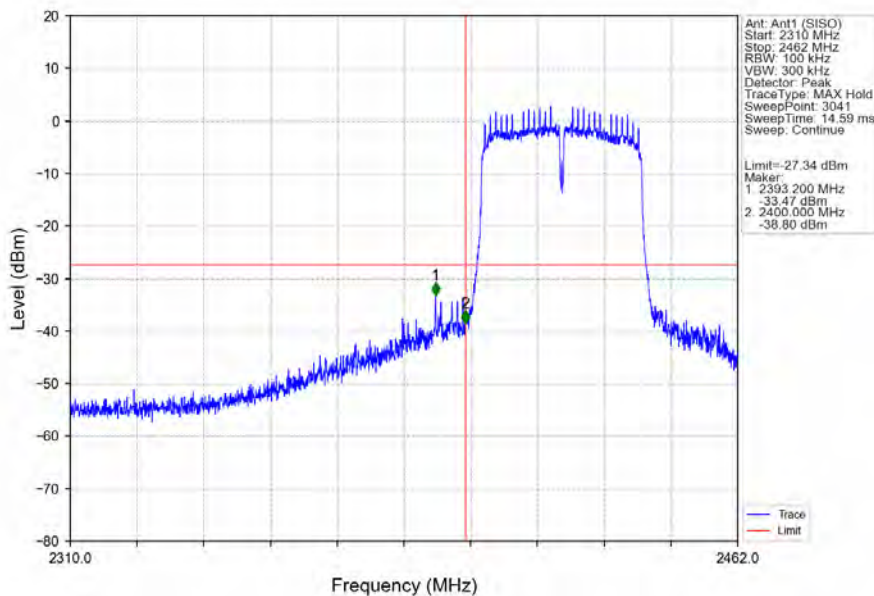
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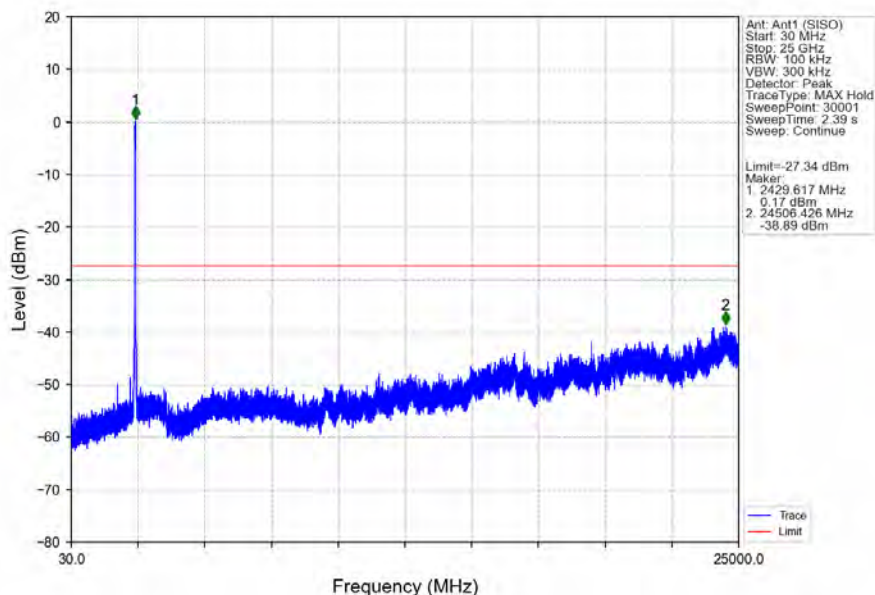
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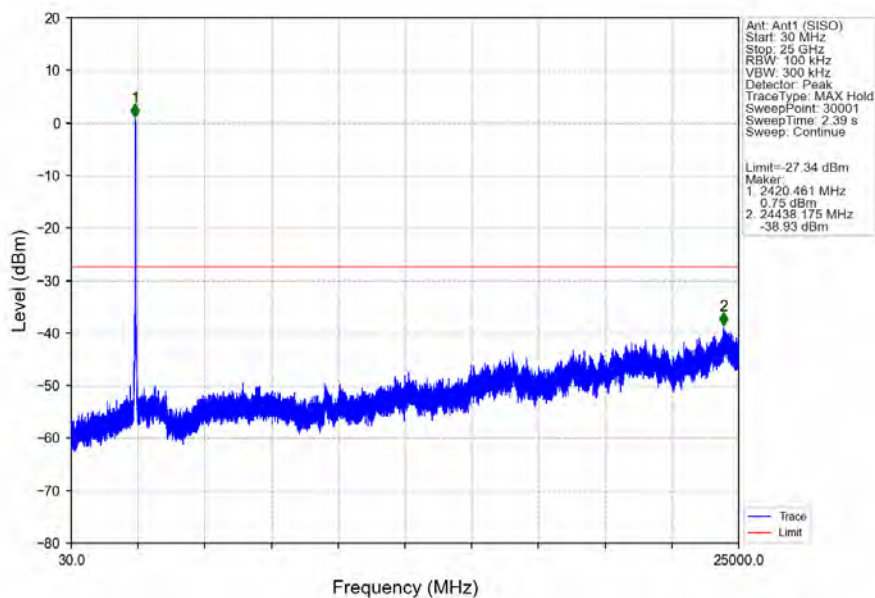
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



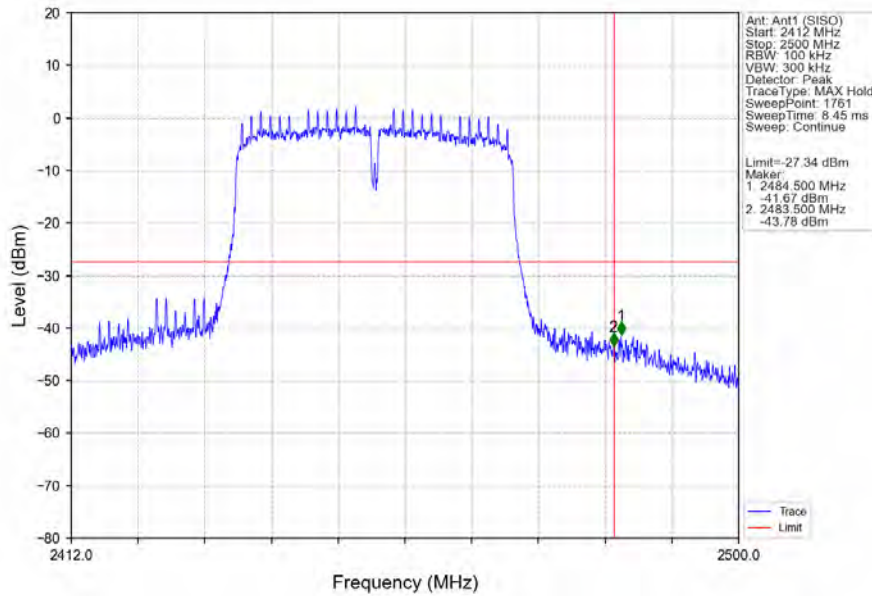
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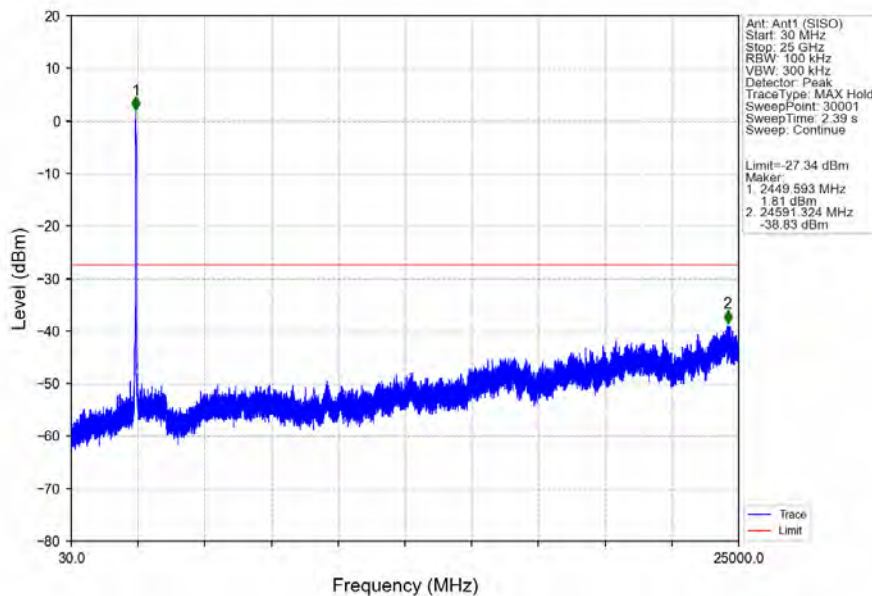
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -