TEST REPORT

Application No.:	FYCR2606000033AT
Applicant:	Shenzhen Geling Technology Co., Ltd.
Address of Applicant:	4th Floor, Building 2, No.302, Huarong Road, Dalang Street, Longhua District Shenzhen 518109 China
Manufacturer:	Shenzhen Geling Technology Co., Ltd.
Address of Manufacturer:	4th Floor, Building 2, No.302, Huarong Road, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Factory:	Shenzhen Geling Technology Co., Ltd.
Address of Factory:	4th Floor, Building 2, No.302, Huarong Road, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Equipment Under Test (EUT):	
EUT Name:	Video Walkie Talkies for Kids
Model No.:	Q101 ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID:	2A3ZQ-Q101
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2026-06-03
Date of Test:	2026-07-21 to 2026-08-01
Date of Issue:	2026-08-19
Test Result:	**Pass***

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

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2026-08-19		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020+Cor.1-2023 Section 6.10.5 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020+Cor.1-2023 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+Cor.1-2023 Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10-2020+Cor.1-2023 Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10-2020+Cor.1-2023 Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectral Density		ANSI C63.10-2020+Cor.1-2023 Section 11.10.3	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10-2020+Cor.1-2023 Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10-2020+Cor.1-2023 Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

Declaration of EUT Family Grouping:

Item No: Q101

There are multiple colors of the above model, Only the pink was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on color.

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4 General Information

4.1 Details of E.U.T.

Power Supply:	Rechargeable battery DC3.7V,1000mAh, Charged by USB Type-C port
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz,
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK);
Number of Channels:	802.11b/g/n(HT20) 11
Channel Spacing:	5MHz
Antenna Type:	Monopole Antenna
Antenna Gain:	2.3dBi

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

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 4.7dB
Radiated Spurious Emissions Below 1GHz	± 5.7dB
Radiated Spurious Emissions Above 1GHz	± 4.7dB (1-18GHz); ± 4.7dB (18-40GHz)
Maximum Conducted Output Power	2.4G:± 0.80dB; 5G:± 0.43dB
Minimum 6dB Bandwidth	2.4G: ± 0.34%; 5G: ± 0.27%
Power Spectral Density	2.4G:± 0.35dB; 5G:± 0.38dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB

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.

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

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4.4 Test Location

All tests were performed at:

Compliance Certification Services（Kunshan）Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)

Compliance Certification Services（Kunshan）Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services（Kunshan）Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services（Kunshan）Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 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**
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2025/8/29	2027/08/28
Loop Antenna	ETS-LINDGREN	6502	SEM003-43	2025/6/16	2027/6/15
MXE EMI receiver	Agilent	N9038A	SEM004-05	2026/7/03	2027/7/02
Pre-amplifier	HP	8447D	SEM005-02	2026/7/07	2027/7/06
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Above 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025/7/29	2027/7/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Pre-amplifier	TST PASS	LNA10180G60	SEM005-32	2026/4/4	2027/4/3
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Coaxial Cable	CCS	N/A	SEM035-03	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4

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Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

RF Conducted Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026/2/3	2027/2/2
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2026/2/3	2027/2/2
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2026/2/4	2027/2/3
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2026/2/5	2027/2/4
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026/2/2	2027/2/1
Coaxial Cable	CCS	N/A	SEM037-01	2026/5/12	2027/5/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2026/2/3	2027/2/2

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-52	2026/7/8	2027/7/7
Humidity/ Temperature Indicator	deli	8838	SEM002-53	2026/7/8	2027/7/7
Barometer	DUMAI	DYM3	SEM002-24	2026/7/10	2027/7/9

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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

15.203 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.3dBi.

Antenna location: Refer to internal photos

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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+Cor.1-2023 Section 6.10.5 & 11.12
Measurement Distance: 3m
Test Engineer: Rex Liu

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: 21.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1000 mbar

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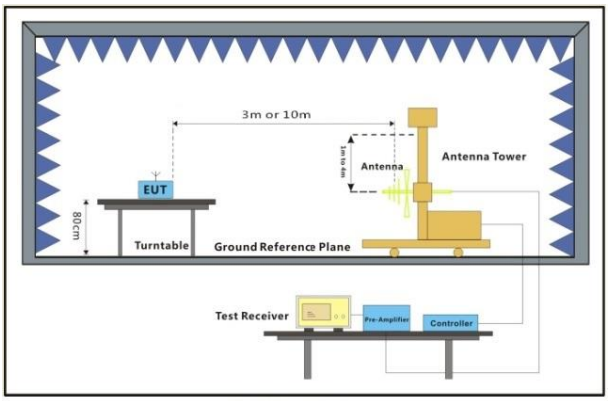
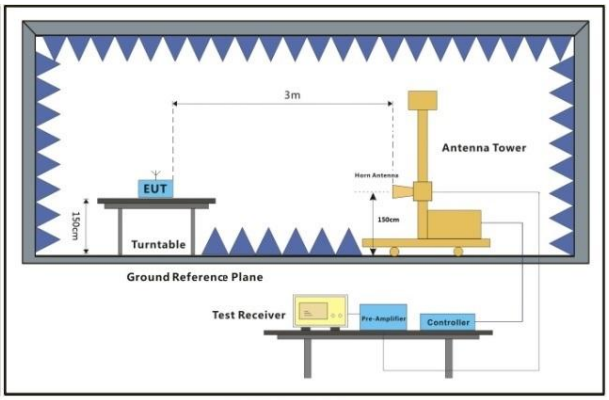
7.1.2 Test Mode Description

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

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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 ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

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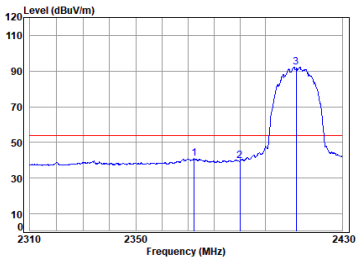
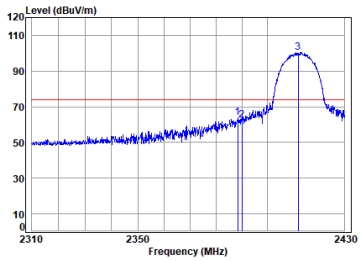
11b_TX_CH_01_Horizontal-Peak




```
Condition: 3m HORIZONTAL
Job No    : 00033AT/00034AT
Mode      : 2412 Band edge
          : 2.4G Wi-Fi 11B
                Cable    Ant Preamp   Read          Limit   Over                Aux
            Freq  Loss Factor Factor  Level  Level   Line  Limit Remark      Factor
           MHz     dB   dB/m     dB  dBuV dBuV/m dBuV/m     dB                  dB

  1    2372.362   4.86  27.16  32.97  41.83  40.88  54.00 -13.12 Average       0.00
  2    2390.000   4.86  27.12  32.96  40.46  39.48  54.00 -14.52 Average       0.00
  3 pp 2412.000   4.85  27.20  32.95  93.16  92.26  54.00  38.26 Average       0.00
```

11b_TX_CH_01_Horizontal-Avg




```
Condition: 3m HORIZONTAL
Job No    : 00033AT/00034AT
Mode      : 2412 Band edge
          : 2.4G Wi-Fi 11B
                Cable    Ant Preamp   Read          Limit   Over                Aux
            Freq  Loss Factor Factor  Level  Level   Line  Limit Remark      Factor
           MHz     dB   dB/m     dB  dBuV dBuV/m dBuV/m     dB                  dB

  1    2388.395   4.86  27.12  32.96  64.77  63.79  74.00 -10.21 Peak          0.00
  2    2390.000   4.86  27.12  32.96  63.37  62.39  74.00 -11.61 Peak          0.00
  3 pp 2412.000   4.85  27.20  32.95 101.44 100.54  74.00  26.54 Peak          0.00
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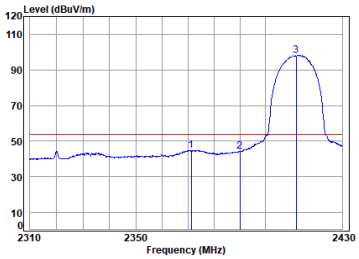
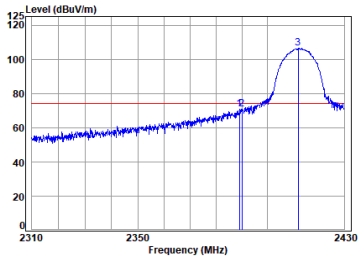
11b_TX_CH_01_Vertical-Peak




```
Condition: 3m VERTICAL
Job No    : 00033AT/00034AT
Mode      : 2412 Band edge
          : 2.4G Wi-Fi 11B
                Cable    Ant Preamp   Read          Limit   Over                Aux
            Freq  Loss Factor Factor  Level  Level   Line  Limit Remark      Factor
           MHz     dB   dB/m     dB  dBuV dBuV/m dBuV/m     dB                  dB

  1    2371.281   4.86  27.16  32.97  45.80  44.85  54.00  -9.15 Average       0.00
  2    2390.000   4.86  27.12  32.96  45.20  44.22  54.00  -9.78 Average       0.00
  3 pp 2412.000   4.85  27.20  32.95  99.17  98.27  54.00  44.27 Average       0.00
```

11b_TX_CH_01_Vertical-Avg




```
Condition: 3m VERTICAL
Job No    : 00033AT/00034AT
Mode      : 2412 Band edge
          : 2.4G Wi-Fi 11B
                Cable    Ant Preamp   Read          Limit   Over                Aux
            Freq  Loss Factor Factor  Level  Level   Line  Limit Remark      Factor
           MHz     dB   dB/m     dB  dBuV dBuV/m dBuV/m     dB                  dB

  1    2389.121   4.86  27.12  32.96  71.65  70.67  74.00  -3.33 Peak          0.00
  2    2390.000   4.86  27.12  32.96  71.74  70.76  74.00  -3.24 Peak          0.00
  3 pp 2412.000   4.85  27.20  32.95 107.56 106.66  74.00  32.66 Peak          0.00
```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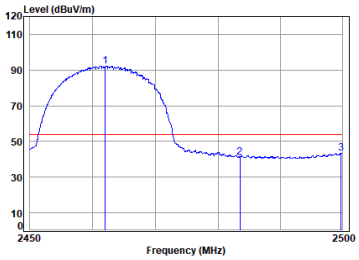
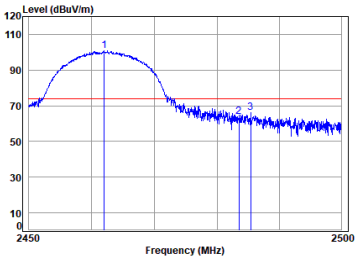


Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11B

	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 pp	2462.000	4.85	27.57	32.92	92.84	92.34	54.00	38.34	Average	0.00
2	2483.500	4.84	27.70	32.91	41.64	41.27	54.00	-12.73	Average	0.00
3	2499.848	4.84	27.80	32.90	43.62	43.36	54.00	-10.64	Average	0.00

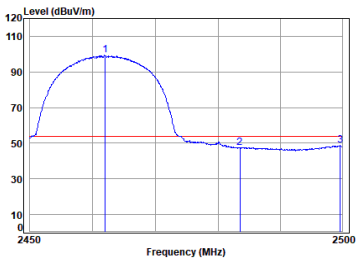
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11B

	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 pp	2462.000	4.85	27.57	32.92	101.42	100.92	74.00	26.92	Peak	0.00
2	2483.500	4.84	27.70	32.91	64.28	63.91	74.00	-10.09	Peak	0.00
3	2485.396	4.84	27.71	32.91	66.30	65.94	74.00	-8.06	Peak	0.00

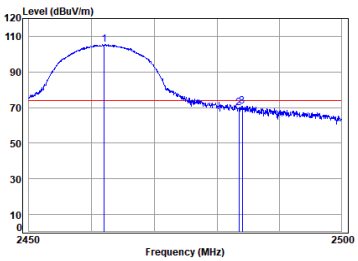
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11B

	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 pp	2462.000	4.85	27.57	32.92	99.82	99.32	54.00	45.32	Average	0.00
2	2483.500	4.84	27.70	32.91	47.77	47.40	54.00	-6.60	Average	0.00
3	2499.697	4.84	27.80	32.90	49.07	48.81	54.00	-5.19	Average	0.00

11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11B

	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 pp	2462.000	4.85	27.57	32.92	106.03	105.53	74.00	31.53	Peak	0.00
2	2483.500	4.84	27.70	32.91	70.14	69.77	74.00	-4.23	Peak	0.00
3	2484.041	4.84	27.70	32.91	71.20	70.83	74.00	-3.17	Peak	0.00

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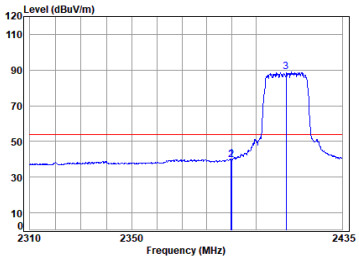
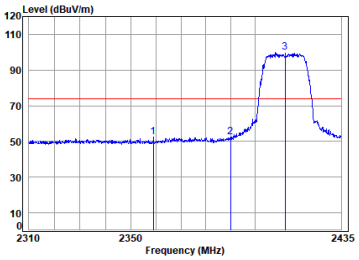
11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11G

	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	2389.743	4.86	27.12	32.96	41.13	40.15	54.00	-13.85	Average	0.00
2	2390.000	4.86	27.12	32.96	40.85	39.87	54.00	-14.13	Average	0.00
3 pp	2412.000	4.85	27.20	32.95	89.67	88.77	54.00	34.77	Average	0.00

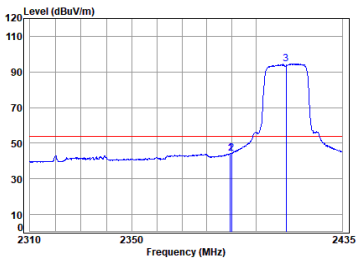
11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11G

	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	2359.087	4.86	27.18	32.98	53.28	52.34	74.00	-21.66	Peak	0.00
2	2390.000	4.86	27.12	32.96	53.39	52.41	74.00	-21.59	Peak	0.00
3 pp	2412.000	4.85	27.20	32.95	100.70	99.80	74.00	25.80	Peak	0.00

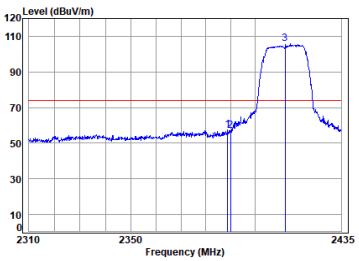
11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11G

	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	2389.491	4.86	27.12	32.96	45.21	44.23	54.00	-9.77	Average	0.00
2	2390.000	4.86	27.12	32.96	45.31	44.33	54.00	-9.67	Average	0.00
3 pp	2412.000	4.85	27.20	32.95	95.44	94.54	54.00	40.54	Average	0.00

11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 Band edge
: 2.4G Wi-Fi 11G

	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	2388.862	4.86	27.12	32.96	58.55	57.57	74.00	-16.43	Peak	0.00
2	2390.000	4.86	27.12	32.96	58.03	57.05	74.00	-16.95	Peak	0.00
3 pp	2412.000	4.85	27.20	32.95	106.58	105.68	74.00	31.68	Peak	0.00

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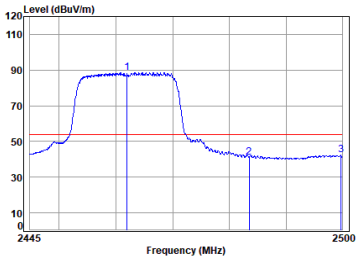
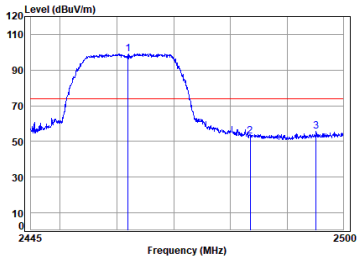
11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11G

	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 pp	2462.000	4.85	27.57	32.92	89.15	88.65	54.00	34.65	Average	0.00
2	2483.500	4.84	27.70	32.91	41.50	41.13	54.00	-12.87	Average	0.00
3	2499.778	4.84	27.80	32.90	42.50	42.24	54.00	-11.76	Average	0.00

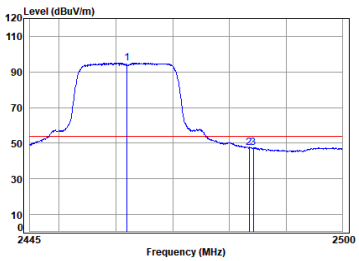
11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11G

	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 pp	2462.000	4.85	27.57	32.92	99.70	99.20	74.00	25.20	Peak	0.00
2	2483.500	4.84	27.70	32.91	53.52	53.15	74.00	-20.85	Peak	0.00
3	2495.166	4.84	27.77	32.90	55.82	55.53	74.00	-18.47	Peak	0.00

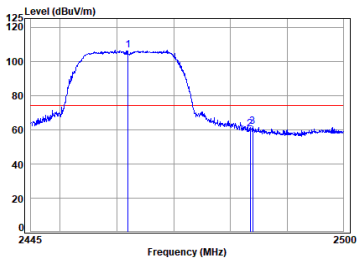
11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11G

	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 pp	2462.000	4.85	27.57	32.92	95.63	95.13	54.00	41.13	Average	0.00
2	2483.500	4.84	27.70	32.91	48.04	47.67	54.00	-6.33	Average	0.00
3	2484.255	4.84	27.71	32.91	47.92	47.56	54.00	-6.44	Average	0.00

11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 2.4G Wi-Fi 11G

	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 pp	2462.000	4.85	27.57	32.92	107.12	106.62	74.00	32.62	Peak	0.00
2	2483.500	4.84	27.70	32.91	60.56	60.19	74.00	-13.81	Peak	0.00
3	2483.924	4.84	27.70	32.91	62.15	61.78	74.00	-12.22	Peak	0.00

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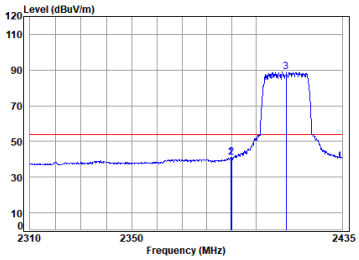
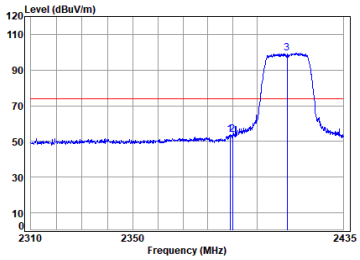
11n_HT(20M)_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 Band edge
: 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	2389.617	4.86	27.12	32.96	41.94	40.96	54.00	-13.04	Average	0.00
2	2390.000	4.86	27.12	32.96	41.97	40.99	54.00	-13.01	Average	0.00
3 pp	2412.000	4.85	27.20	32.95	89.65	88.75	54.00	34.75	Average	0.00

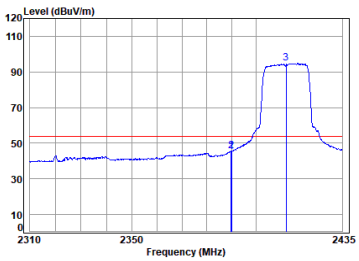
11n_HT(20M)_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 Band edge
: 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	2388.988	4.86	27.12	32.96	54.87	53.89	74.00	-20.11	Peak	0.00
2	2390.000	4.86	27.12	32.96	54.65	53.67	74.00	-20.33	Peak	0.00
3 pp	2412.000	4.85	27.20	32.95	100.46	99.56	74.00	25.56	Peak	0.00

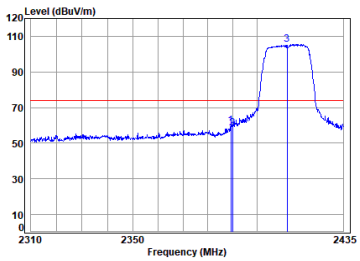
11n_HT(20M)_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 Band edge
: 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	2389.743	4.86	27.12	32.96	46.27	45.29	54.00	-8.71	Average	0.00
2	2390.000	4.86	27.12	32.96	46.48	45.50	54.00	-8.50	Average	0.00
3 pp	2412.000	4.85	27.20	32.95	95.64	94.74	54.00	40.74	Average	0.00

11n_HT(20M)_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 Band edge
: 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	2389.239	4.86	27.12	32.96	60.72	59.74	74.00	-14.26	Peak	0.00
2	2390.000	4.86	27.12	32.96	59.24	58.26	74.00	-15.74	Peak	0.00
3 pp	2412.000	4.85	27.20	32.95	106.50	105.60	74.00	31.60	Peak	0.00

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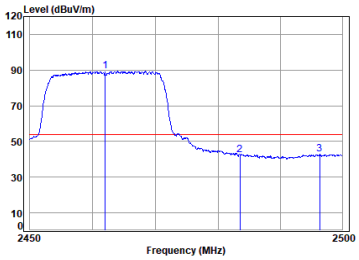
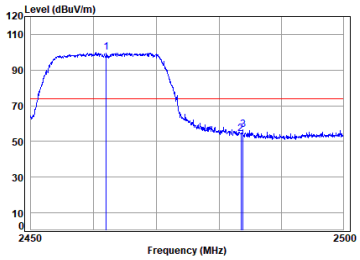
11n_HT(20M)_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 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 pp	2462.000	4.85	27.57	32.92	89.83	89.33	54.00	35.33	Average	0.00
2	2483.500	4.84	27.70	32.91	42.85	42.48	54.00	-11.52	Average	0.00
3	2496.366	4.84	27.78	32.90	43.25	42.97	54.00	-11.03	Average	0.00

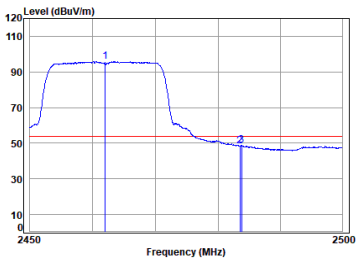
11n_HT(20M)_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 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 pp	2462.000	4.85	27.57	32.92	100.42	99.92	74.00	25.92	Peak	0.00
2	2483.500	4.84	27.70	32.91	54.85	54.48	74.00	-19.52	Peak	0.00
3	2483.840	4.84	27.70	32.91	56.93	56.56	74.00	-17.44	Peak	0.00

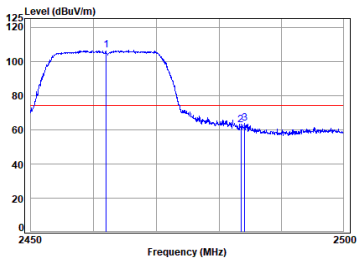
11n_HT(20M)_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 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 pp	2462.000	4.85	27.57	32.92	96.30	95.80	54.00	41.80	Average	0.00
2	2483.500	4.84	27.70	32.91	48.86	48.49	54.00	-5.51	Average	0.00
3	2483.790	4.84	27.70	32.91	49.09	48.72	54.00	-5.28	Average	0.00

11n_HT(20M)_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 Band edge
: 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 pp	2462.000	4.85	27.57	32.92	107.09	106.59	74.00	32.59	Peak	0.00
2	2483.500	4.84	27.70	32.91	63.02	62.65	74.00	-11.35	Peak	0.00
3	2484.141	4.84	27.71	32.91	64.07	63.71	74.00	-10.29	Peak	0.00

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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+Cor.1-2023 Section 6.4,6.5
Measurement Distance: 3m
Test Engineer: Rex Liu

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

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is 40log(3/300) = -80dB (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is 20log(10/3) = 10.46dB (for 10m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C Humidity: 51.4 % RH Atmospheric Pressure: 1000 mbar

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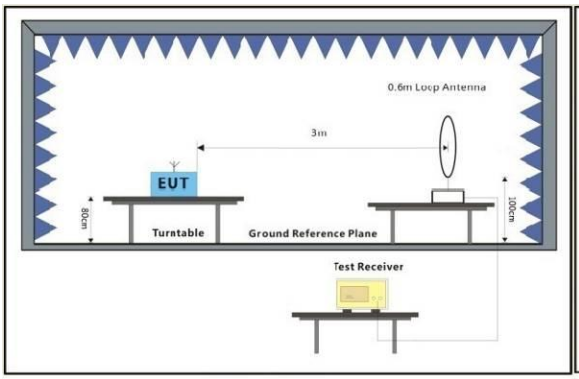
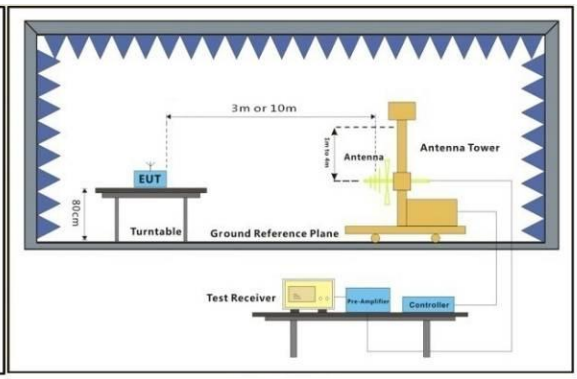
7.2.2 Test Mode Description

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



Below 30MHz



30MHz-1GHz

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7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.

c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1 Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

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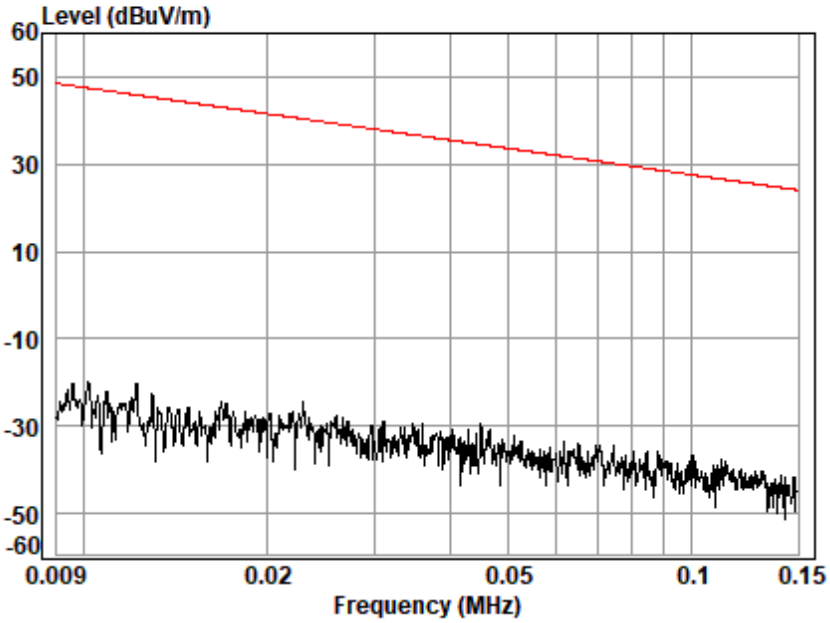
Test Mode: 00




```
Site      : chamber
Condition: 3m
Job No.   : 00033AT
Test Mode: 00
          : coaxial
```

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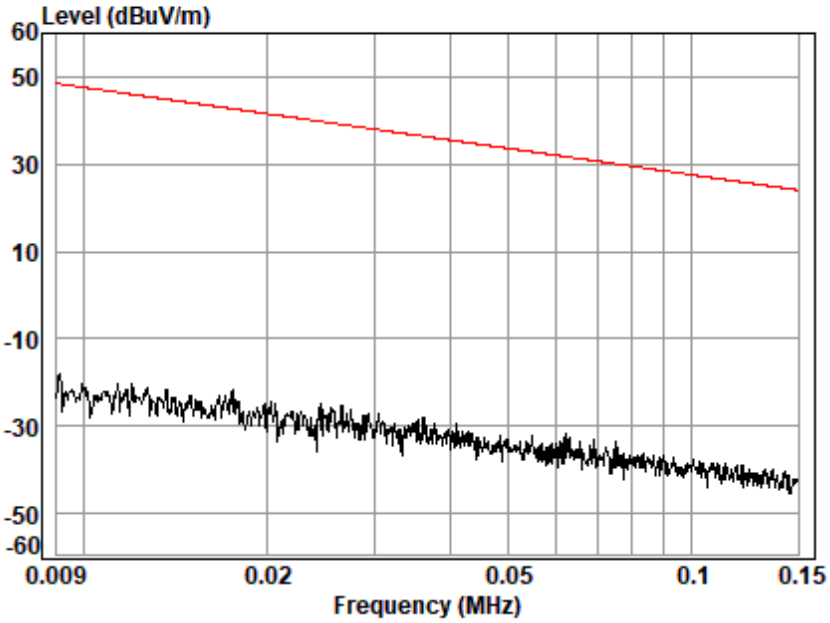
Test Mode: 00

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Site      : chamber
Condition: 3m
Job No.   : 00033AT
Test Mode: 00
          : coplanar
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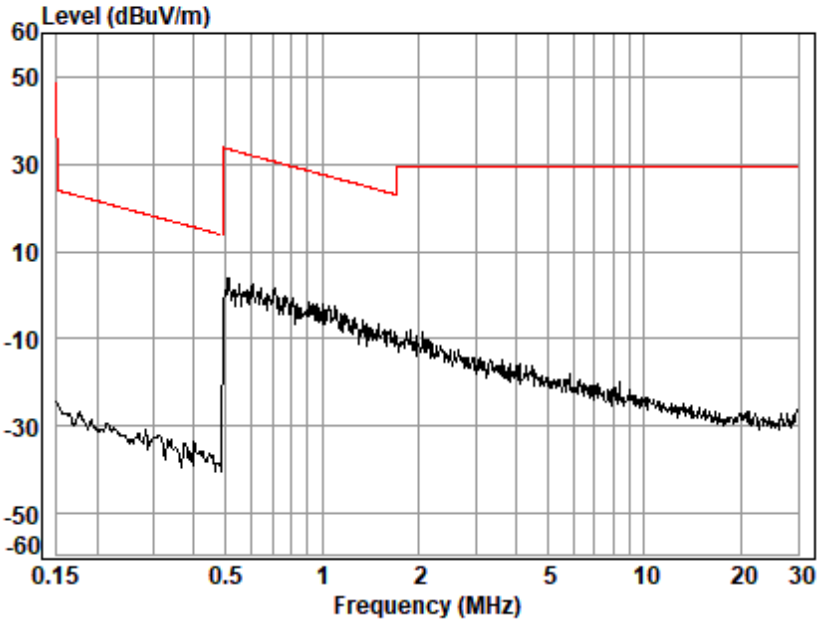
Test Mode: 00

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Site      : chamber
Condition: 3m
Job No.   : 00033AT
Test Mode: 00
          : coaxial
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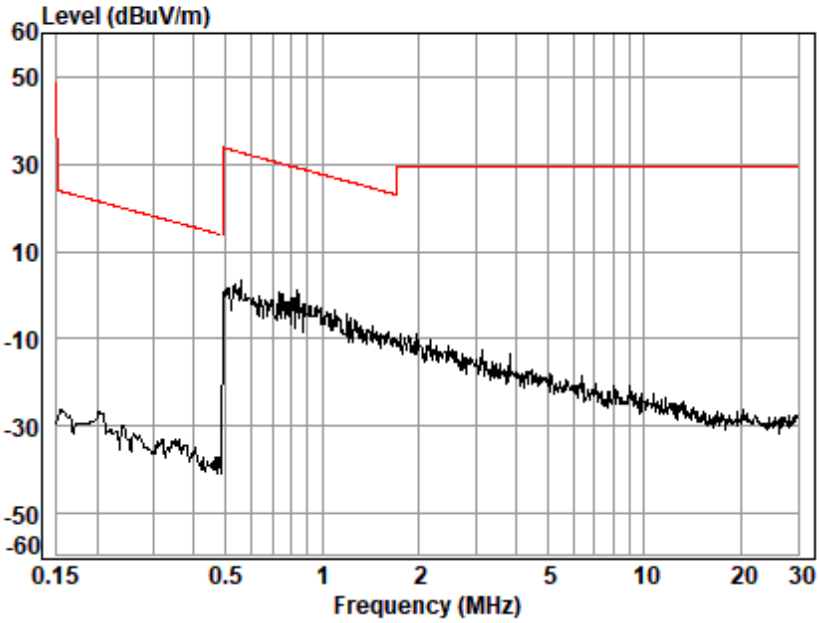
Test Mode: 00




```
Site      : chamber
Condition: 3m
Job No.   : 00033AT
Test Mode: 00
          : coplanar
```

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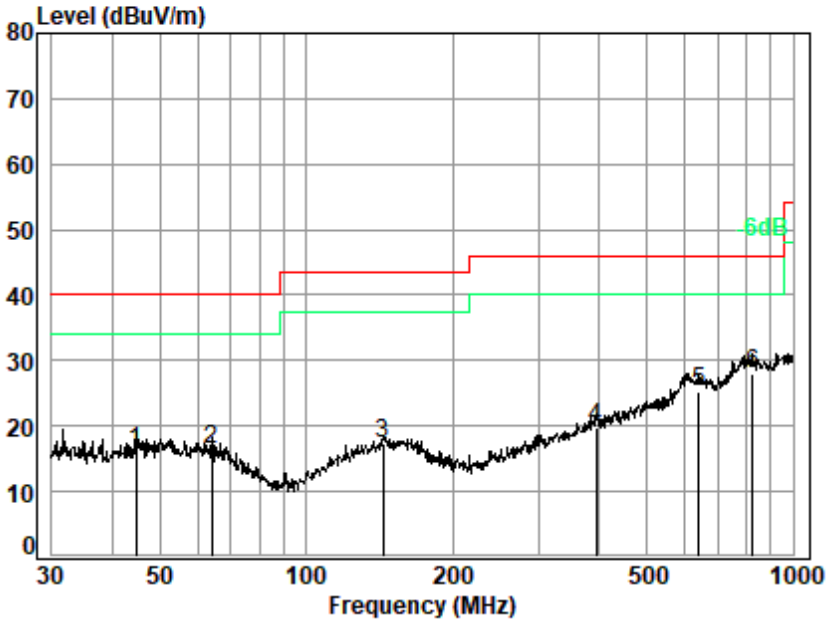
Test Mode: 00



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 00

	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	44.74	0.56	17.62	26.11	24.05	16.12	40.00	-23.88	QP
2	63.98	0.85	16.79	26.10	24.78	16.32	40.00	-23.68	QP
3	143.83	1.35	17.13	25.67	24.62	17.43	43.50	-26.07	QP
4	393.47	1.55	19.61	25.94	24.63	19.85	46.00	-26.15	QP
5	640.61	2.87	24.43	26.55	24.38	25.13	46.00	-20.87	QP
6	827.49	3.20	26.68	26.47	24.50	27.91	46.00	-18.09	QP

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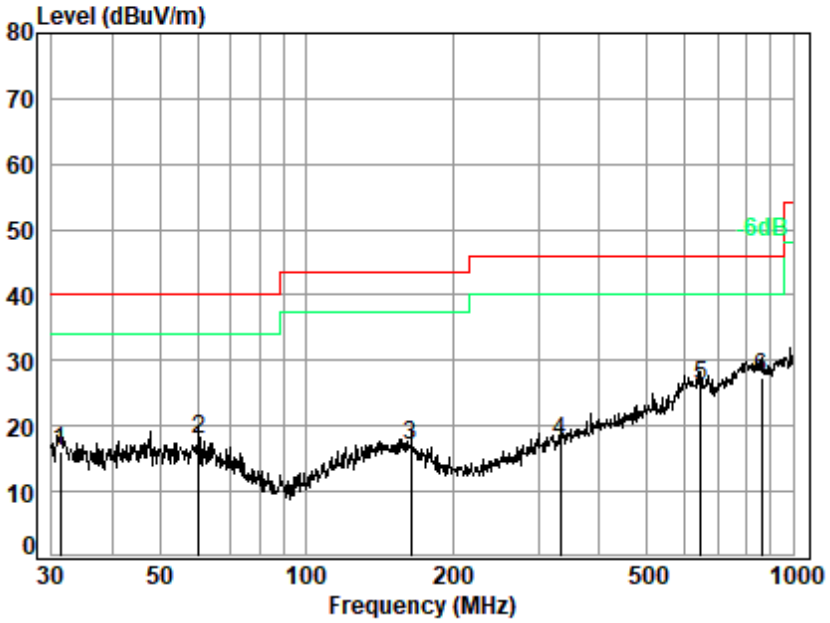
Test Mode: 00



Site : chamber
Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 00

	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	31.29	0.65	16.61	26.13	25.02	16.15	40.00	-23.85	QP
2	60.28	0.79	17.25	26.10	26.13	18.07	40.00	-21.93	QP
3	164.33	1.08	17.14	25.58	24.41	17.05	43.50	-26.45	QP
4	332.52	1.10	18.31	25.48	23.80	17.73	46.00	-28.27	QP
5	647.39	2.76	24.49	26.55	25.58	26.28	46.00	-19.72	QP
6	860.04	2.75	26.82	26.44	24.26	27.39	46.00	-18.61	QP

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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+Cor.1-2023 Section 6.6 & 11.12
Measurement Distance: 3m
Test Engineer: Sean Xiao

Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is 20log(1/3) = -9.54dB (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

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

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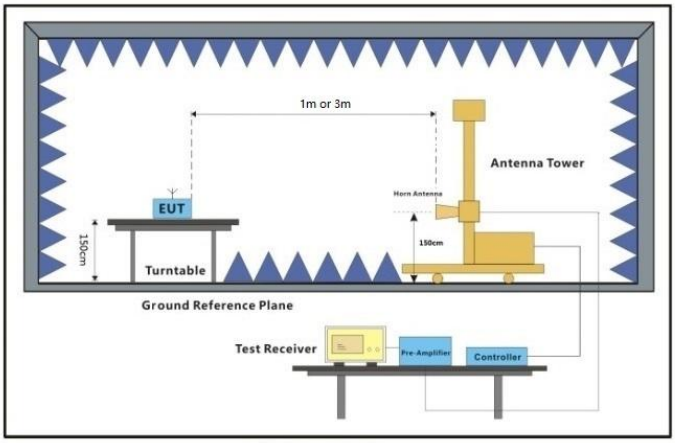
7.3.3 Test Setup Diagram



Above 1GHz

7.3.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.

b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.

c. The antenna height is varied from 1m to 4m 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 1m to 4m 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.

g. 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.

h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.

2. 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.

3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.

4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).

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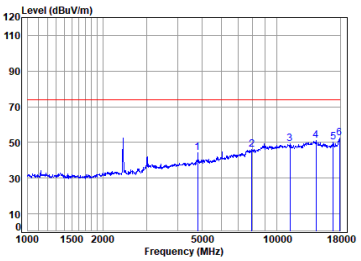
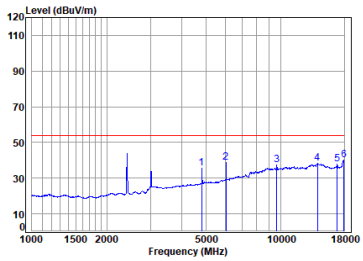
11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11B

	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	4818.016	8.22	31.89	53.15	57.25	44.21	74.00	-29.79	Peak	0.00
2	7943.838	9.38	36.95	54.15	54.08	46.26	74.00	-27.74	Peak	0.00
3	11302.480	11.83	39.01	53.76	52.14	49.22	74.00	-24.78	Peak	0.00
4	14366.840	10.98	40.30	53.71	53.38	50.95	74.00	-23.05	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.95	50.32	74.00	-23.68	Peak	0.00
6	pp17896.250	14.48	41.55	51.52	47.95	52.46	74.00	-21.54	Peak	0.00

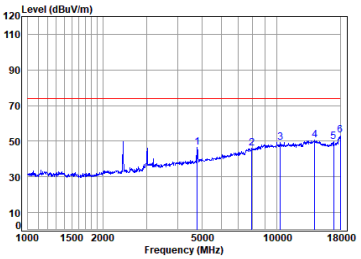
11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11B

	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	4818.016	8.22	31.89	53.15	48.74	35.70	54.00	-18.30	Average	0.00
2	6036.421	8.09	33.45	53.30	50.37	38.61	54.00	-15.39	Average	0.00
3	9641.257	11.93	38.58	54.03	40.94	37.42	54.00	-16.58	Average	0.00
4	14079.080	10.68	40.37	53.86	40.96	38.15	54.00	-15.85	Average	0.00
5	16891.040	14.58	38.62	51.83	36.43	37.80	54.00	-16.20	Average	0.00
6	pp17948.050	14.48	42.37	51.51	34.86	40.20	54.00	-13.80	Average	0.00

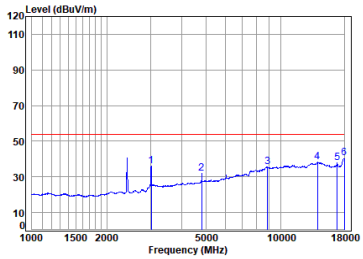
11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11B

	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	4790.245	8.20	32.00	53.14	59.63	46.69	74.00	-27.31	Peak	0.00
2	7943.838	9.38	36.95	54.15	53.89	46.07	74.00	-27.93	Peak	0.00
3	10363.710	11.61	38.37	53.91	53.41	49.48	74.00	-24.52	Peak	0.00
4	14242.800	10.85	40.73	53.78	52.94	50.74	74.00	-23.26	Peak	0.00
5	16939.940	14.49	38.80	51.77	48.10	49.62	74.00	-24.38	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	47.30	53.49	74.00	-20.51	Peak	0.00

11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11B

	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	3016.575	5.54	29.30	52.90	54.09	36.03	54.00	-17.97	Average	0.00
2	4818.016	8.22	31.89	53.15	45.14	32.10	54.00	-21.90	Average	0.00
3	8840.473	10.57	37.94	53.95	40.87	35.43	54.00	-18.57	Average	0.00
4	14079.080	10.68	40.37	53.86	40.93	38.12	54.00	-15.88	Average	0.00
5	16891.040	14.58	38.62	51.83	36.43	37.80	54.00	-16.20	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.24	40.43	54.00	-13.57	Average	0.00

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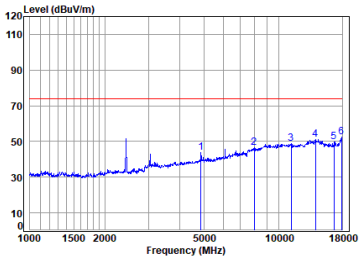
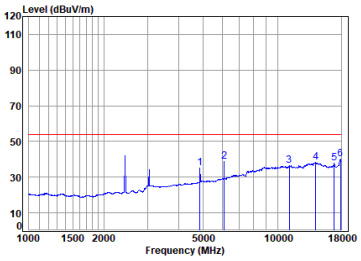
11b_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11B

	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	4874.043	8.26	31.99	53.17	56.71	43.79	74.00	-30.21	Peak	0.00
2	7966.832	9.39	36.97	54.17	54.23	46.42	74.00	-27.58	Peak	0.00
3	11204.900	11.61	39.19	53.71	51.65	48.74	74.00	-25.26	Peak	0.00
4	14079.080	10.68	40.37	53.86	53.86	51.05	74.00	-22.95	Peak	0.00
5	16696.880	14.95	39.28	52.06	47.79	49.96	74.00	-24.04	Peak	0.00
6	pp17896.250	14.48	41.55	51.52	47.87	52.38	74.00	-21.62	Peak	0.00

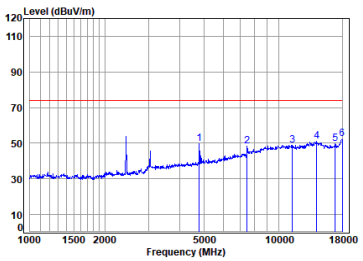
11b_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11B

	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	4874.043	8.26	31.99	53.17	48.09	35.17	54.00	-18.83	Average	0.00
2	6088.991	8.17	33.89	53.29	49.98	38.75	54.00	-15.25	Average	0.00
3	11140.310	11.47	39.20	53.67	39.32	36.32	54.00	-17.68	Average	0.00
4	14201.690	10.81	40.89	53.80	40.21	38.11	54.00	-15.89	Average	0.00
5	16891.040	14.58	38.62	51.83	36.41	37.78	54.00	-16.22	Average	0.00
6	pp17896.250	14.48	41.55	51.52	35.68	40.19	54.00	-13.81	Average	0.00

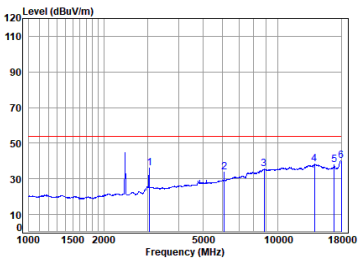
11b_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11B

	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	4790.245	8.20	32.00	53.14	62.74	49.80	74.00	-24.20	Peak	0.00
2	7476.006	9.19	36.90	53.69	56.19	48.59	74.00	-25.41	Peak	0.00
3	11335.190	11.90	39.11	53.77	51.78	49.02	74.00	-24.98	Peak	0.00
4	14242.800	10.85	40.73	53.78	53.39	51.19	74.00	-22.81	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.45	49.82	74.00	-24.18	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	46.43	52.62	74.00	-21.38	Peak	0.00

11b_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11B

	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	3051.653	5.63	29.30	52.90	54.07	36.10	54.00	-17.90	Average	0.00
2	6088.991	8.17	33.89	53.29	44.91	33.68	54.00	-20.32	Average	0.00
3	8814.957	10.49	38.04	53.95	40.97	35.55	54.00	-18.45	Average	0.00
4	14079.080	10.68	40.37	53.86	41.17	38.36	54.00	-15.64	Average	0.00
5	16891.040	14.58	38.62	51.83	36.57	37.94	54.00	-16.06	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.19	40.38	54.00	-13.62	Average	0.00

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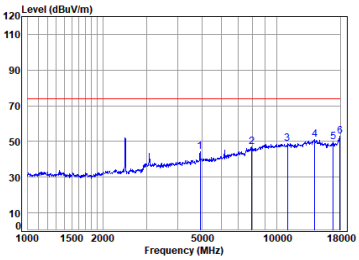
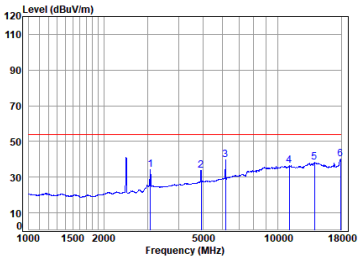
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11B

	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	4930.721	8.30	32.18	53.18	56.94	44.24	74.00	-29.76	Peak	0.00
2	7943.838	9.38	36.95	54.15	54.88	47.06	74.00	-26.94	Peak	0.00
3	11044.130	11.25	38.98	53.62	52.01	48.62	74.00	-25.38	Peak	0.00
4	14201.690	10.81	40.89	53.80	53.42	51.32	74.00	-22.68	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.48	49.85	74.00	-24.15	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.38	52.72	74.00	-21.28	Peak	0.00

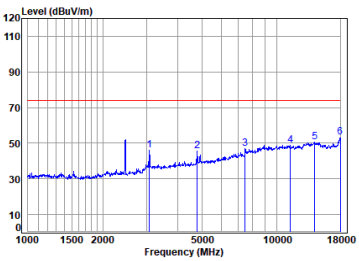
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11B

	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	3078.229	5.70	29.30	52.90	52.11	34.21	54.00	-19.79	Average	0.00
2	4930.721	8.30	32.18	53.18	46.65	33.95	54.00	-20.05	Average	0.00
3	6159.797	8.27	34.06	53.28	50.60	39.65	54.00	-14.35	Average	0.00
4	11140.310	11.47	39.20	53.67	39.46	36.46	54.00	-17.54	Average	0.00
5	14079.080	10.68	40.37	53.86	40.94	38.13	54.00	-15.87	Average	0.00
6	pp17896.250	14.48	41.55	51.52	35.65	40.16	54.00	-13.84	Average	0.00

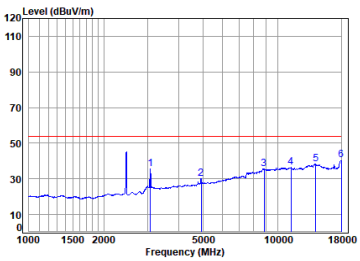
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11B

	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	3078.229	5.70	29.30	52.90	63.82	45.92	74.00	-28.08	Peak	0.00
2	4790.245	8.20	32.00	53.14	58.37	45.43	74.00	-28.57	Peak	0.00
3	7476.006	9.19	36.90	53.69	54.57	46.97	74.00	-27.03	Peak	0.00
4	11335.190	11.90	39.11	53.77	51.64	48.88	74.00	-25.12	Peak	0.00
5	14201.690	10.81	40.89	53.80	52.71	50.61	74.00	-23.39	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	47.06	53.25	74.00	-20.75	Peak	0.00

11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11B

	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	3078.229	5.70	29.30	52.90	53.45	35.55	54.00	-18.45	Average	0.00
2	4930.721	8.30	32.18	53.18	43.03	30.33	54.00	-23.67	Average	0.00
3	8814.957	10.49	38.04	53.95	40.95	35.53	54.00	-18.47	Average	0.00
4	11302.480	11.83	39.01	53.76	39.40	36.48	54.00	-17.52	Average	0.00
5	14201.690	10.81	40.89	53.80	40.33	38.23	54.00	-15.77	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.32	40.51	54.00	-13.49	Average	0.00

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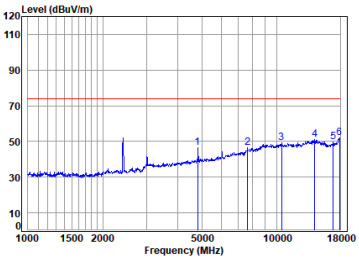
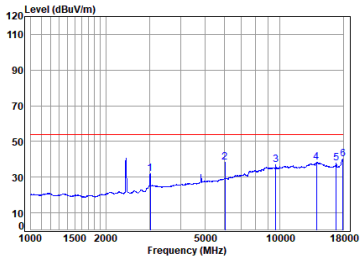
11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11G

	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	4818.016	8.22	31.89	53.15	59.54	46.50	74.00	-27.50	Peak	0.00
2	7628.806	9.27	36.27	53.84	54.99	46.69	74.00	-27.31	Peak	0.00
3	10453.970	11.56	38.41	53.87	53.18	49.28	74.00	-24.72	Peak	0.00
4	14242.800	10.85	40.73	53.78	53.43	51.23	74.00	-22.77	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.53	49.90	74.00	-24.10	Peak	0.00
6	pp17896.250	14.48	41.55	51.52	47.54	52.05	74.00	-21.95	Peak	0.00

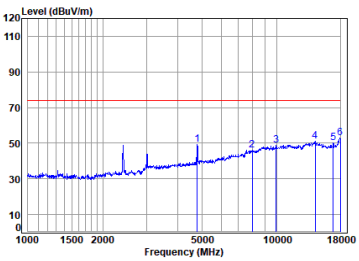
11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11G

	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	3016.575	5.54	29.30	52.90	49.89	31.83	54.00	-22.17	Average	0.00
2	6036.421	8.09	33.45	53.30	50.28	38.52	54.00	-15.48	Average	0.00
3	9641.257	11.93	38.58	54.03	40.46	36.94	54.00	-17.06	Average	0.00
4	14079.080	10.68	40.37	53.86	40.98	38.17	54.00	-15.83	Average	0.00
5	16891.040	14.58	38.62	51.83	36.58	37.95	54.00	-16.05	Average	0.00
6	pp17948.050	14.48	42.37	51.51	34.71	40.05	54.00	-13.95	Average	0.00

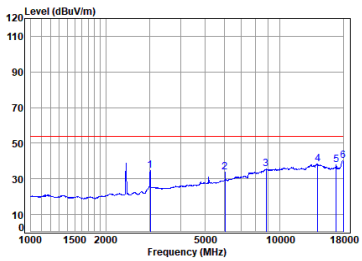
11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11G

	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	4790.245	8.20	32.00	53.14	62.42	49.48	74.00	-24.52	Peak	0.00
2	7966.832	9.39	36.97	54.17	53.91	46.10	74.00	-27.90	Peak	0.00
3	9952.717	11.85	38.77	54.09	52.40	48.93	74.00	-25.07	Peak	0.00
4	14284.030	10.90	40.56	53.75	53.22	50.93	74.00	-23.07	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.63	50.00	74.00	-24.00	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	46.76	52.95	74.00	-21.05	Peak	0.00

11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11G

	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	3016.575	5.54	29.30	52.90	52.79	34.73	54.00	-19.27	Average	0.00
2	6036.421	8.09	33.45	53.30	45.71	33.95	54.00	-20.05	Average	0.00
3	8814.957	10.49	38.04	53.95	40.99	35.57	54.00	-18.43	Average	0.00
4	14242.800	10.85	40.73	53.78	40.39	38.19	54.00	-15.81	Average	0.00
5	16891.040	14.58	38.62	51.83	36.43	37.80	54.00	-16.20	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.16	40.35	54.00	-13.65	Average	0.00

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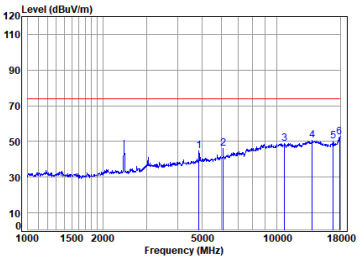
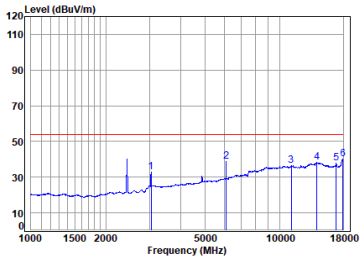
11g_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11G

	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	4874.043	8.26	31.99	53.17	57.73	44.81	74.00	-29.19	Peak	0.00
2	6088.991	8.17	33.89	53.29	57.42	46.19	74.00	-27.81	Peak	0.00
3	10760.540	11.33	38.26	53.72	53.16	49.03	74.00	-24.97	Peak	0.00
4	13917.240	10.81	40.34	53.92	53.38	50.61	74.00	-23.39	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.66	50.03	74.00	-23.97	Peak	0.00
6	pp17896.250	14.48	41.55	51.52	47.98	52.49	74.00	-21.51	Peak	0.00

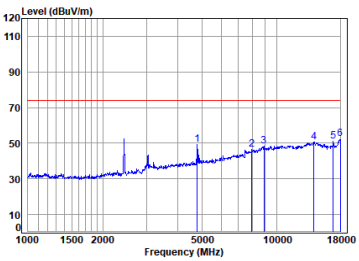
11g_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11G

	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	3042.846	5.61	29.30	52.90	50.62	32.63	54.00	-21.37	Average	0.00
2	6088.991	8.17	33.89	53.29	49.98	38.75	54.00	-15.25	Average	0.00
3	11140.310	11.47	39.20	53.67	39.44	36.44	54.00	-17.56	Average	0.00
4	14119.830	10.73	40.34	53.84	41.02	38.25	54.00	-15.75	Average	0.00
5	16891.040	14.58	38.62	51.83	36.44	37.81	54.00	-16.19	Average	0.00
6	pp17948.050	14.48	42.37	51.51	34.76	40.10	54.00	-13.90	Average	0.00

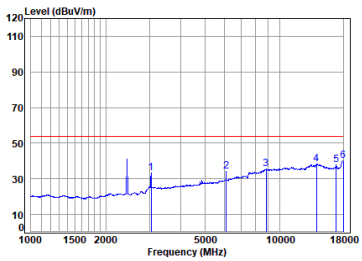
11g_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11G

	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	4790.245	8.20	32.00	53.14	62.31	49.37	74.00	-24.63	Peak	0.00
2	7943.838	9.38	36.95	54.15	54.20	46.38	74.00	-27.62	Peak	0.00
3	8891.725	10.73	38.32	53.93	53.44	48.56	74.00	-25.44	Peak	0.00
4	14119.830	10.73	40.34	53.84	53.43	50.66	74.00	-23.34	Peak	0.00
5	16891.040	14.58	38.62	51.83	49.81	51.18	74.00	-22.82	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	46.47	52.66	74.00	-21.34	Peak	0.00

11g_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11G

	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	3042.846	5.61	29.30	52.90	51.39	33.40	54.00	-20.60	Average	0.00
2	6088.991	8.17	33.89	53.29	45.50	34.27	54.00	-19.73	Average	0.00
3	8814.957	10.49	38.04	53.95	40.99	35.57	54.00	-18.43	Average	0.00
4	14079.080	10.68	40.37	53.86	40.97	38.16	54.00	-15.84	Average	0.00
5	16891.040	14.58	38.62	51.83	36.44	37.81	54.00	-16.19	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.16	40.35	54.00	-13.65	Average	0.00

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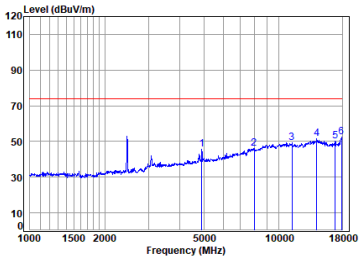
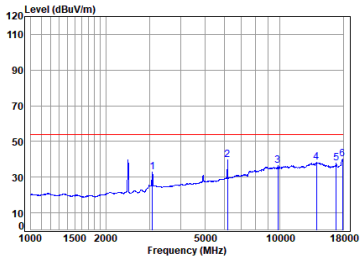
11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11G

	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	4916.490	8.29	32.23	53.18	58.20	45.54	74.00	-28.46	Peak	0.00
2	7989.893	9.40	36.92	54.19	54.11	46.24	74.00	-27.76	Peak	0.00
3	11302.480	11.83	39.01	53.76	52.04	49.12	74.00	-24.88	Peak	0.00
4	14242.800	10.85	40.73	53.78	53.68	51.48	74.00	-22.52	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.95	50.32	74.00	-23.68	Peak	0.00
6	pp17896.250	14.48	41.55	51.52	47.80	52.31	74.00	-21.69	Peak	0.00

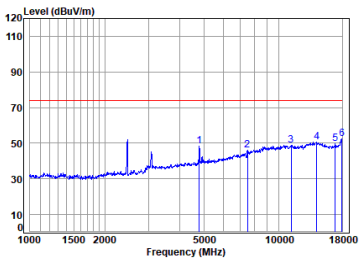
11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11G

	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	3078.229	5.70	29.30	52.90	50.80	32.90	54.00	-21.10	Average	0.00
2	6159.797	8.27	34.06	53.28	50.54	39.59	54.00	-14.41	Average	0.00
3	9838.312	11.88	38.55	54.07	40.32	36.68	54.00	-17.32	Average	0.00
4	14079.080	10.68	40.37	53.86	41.04	38.23	54.00	-15.77	Average	0.00
5	16891.040	14.58	38.62	51.83	36.46	37.83	54.00	-16.17	Average	0.00
6	pp17896.250	14.48	41.55	51.52	35.60	40.11	54.00	-13.89	Average	0.00

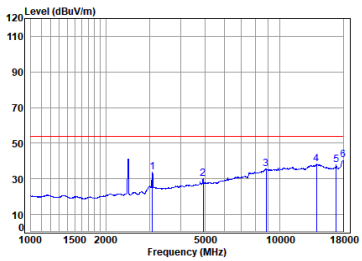
11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11G

	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	4790.245	8.20	32.00	53.14	61.12	48.18	74.00	-25.82	Peak	0.00
2	7497.646	9.22	36.90	53.71	53.85	46.26	74.00	-27.74	Peak	0.00
3	11237.330	11.68	39.13	53.72	51.74	48.83	74.00	-25.17	Peak	0.00
4	14242.800	10.85	40.73	53.78	52.76	50.56	74.00	-23.44	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.56	49.93	74.00	-24.07	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.17	52.51	74.00	-21.49	Peak	0.00

11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11G

	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	3078.229	5.70	29.30	52.90	51.70	33.80	54.00	-20.20	Average	0.00
2	4930.721	8.30	32.18	53.18	42.69	29.99	54.00	-24.01	Average	0.00
3	8814.957	10.49	38.04	53.95	41.03	35.61	54.00	-18.39	Average	0.00
4	14038.450	10.64	40.69	53.88	40.74	38.19	54.00	-15.81	Average	0.00
5	16891.040	14.58	38.62	51.83	36.45	37.82	54.00	-16.18	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.27	40.46	54.00	-13.54	Average	0.00

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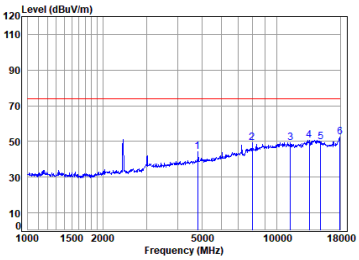
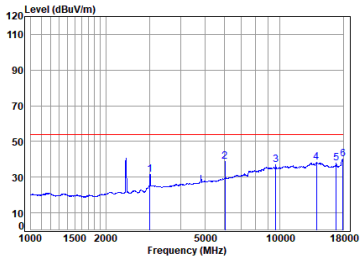
11n_20M_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 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	4818.016	8.22	31.89	53.15	57.40	44.36	74.00	-29.64	Peak	0.00
2	7989.893	9.40	36.92	54.19	57.31	49.44	74.00	-24.56	Peak	0.00
3	11368.000	11.97	39.20	53.79	52.03	49.41	74.00	-24.59	Peak	0.00
4	13520.740	11.83	40.50	53.99	52.49	50.83	74.00	-23.17	Peak	0.00
5	15046.850	12.43	39.35	53.38	51.24	49.64	74.00	-24.36	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.10	52.44	74.00	-21.56	Peak	0.00

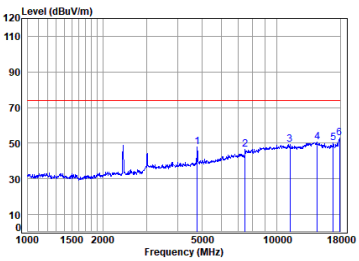
11n_20M_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2412 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	3007.868	5.52	29.30	52.90	49.76	31.68	54.00	-22.32	Average	0.00
2	6036.421	8.09	33.45	53.30	50.45	38.69	54.00	-15.31	Average	0.00
3	9641.257	11.93	38.58	54.03	40.31	36.79	54.00	-17.21	Average	0.00
4	14038.450	10.64	40.69	53.88	40.66	38.11	54.00	-15.89	Average	0.00
5	16891.040	14.58	38.62	51.83	36.53	37.90	54.00	-16.10	Average	0.00
6	pp17948.050	14.48	42.37	51.51	34.84	40.18	54.00	-13.82	Average	0.00

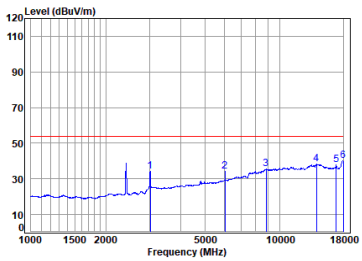
11n_20M_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 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	4790.245	8.20	32.00	53.14	60.76	47.82	74.00	-26.18	Peak	0.00
2	7476.006	9.19	36.90	53.69	54.11	46.51	74.00	-27.49	Peak	0.00
3	11302.480	11.83	39.01	53.76	52.40	49.48	74.00	-24.52	Peak	0.00
4	14533.910	11.20	39.87	53.63	53.25	50.69	74.00	-23.31	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.76	50.13	74.00	-23.87	Peak	0.00
6	pp17896.250	14.48	41.55	51.52	48.37	52.88	74.00	-21.12	Peak	0.00

11n_20M_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2412 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	3016.575	5.54	29.30	52.90	52.32	34.26	54.00	-19.74	Average	0.00
2	6036.421	8.09	33.45	53.30	45.75	33.99	54.00	-20.01	Average	0.00
3	8814.957	10.49	38.04	53.95	40.86	35.44	54.00	-18.56	Average	0.00
4	14079.080	10.68	40.37	53.86	40.93	38.12	54.00	-15.88	Average	0.00
5	16891.040	14.58	38.62	51.83	36.41	37.78	54.00	-16.22	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.12	40.31	54.00	-13.69	Average	0.00

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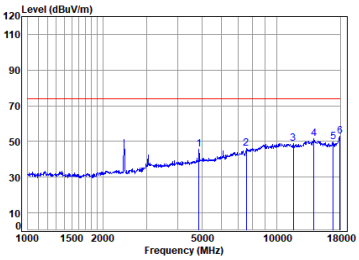
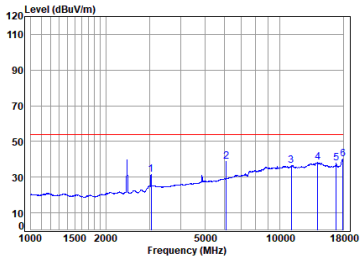
11n_20M_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2437 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	4874.043	8.26	31.99	53.17	58.47	45.55	74.00	-28.45	Peak	0.00
2	7562.942	9.24	35.95	53.78	54.56	45.97	74.00	-28.03	Peak	0.00
3	11667.600	12.03	38.71	53.94	52.10	48.90	74.00	-25.10	Peak	0.00
4	14119.830	10.73	40.34	53.84	54.26	51.49	74.00	-22.51	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.39	49.76	74.00	-24.24	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.39	52.73	74.00	-21.27	Peak	0.00

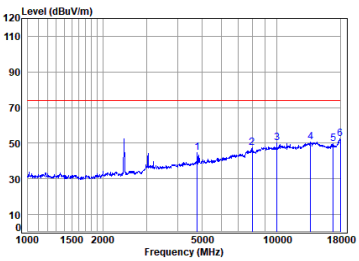
11n_20M_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
Mode : 2437 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	3042.846	5.61	29.30	52.90	49.47	31.48	54.00	-22.52	Average	0.00
2	6088.991	8.17	33.89	53.29	49.85	38.62	54.00	-15.38	Average	0.00
3	11140.310	11.47	39.20	53.67	39.39	36.39	54.00	-17.61	Average	0.00
4	14242.800	10.85	40.73	53.78	40.35	38.15	54.00	-15.85	Average	0.00
5	16891.040	14.58	38.62	51.83	36.57	37.94	54.00	-16.06	Average	0.00
6	pp17948.050	14.48	42.37	51.51	34.68	40.02	54.00	-13.98	Average	0.00

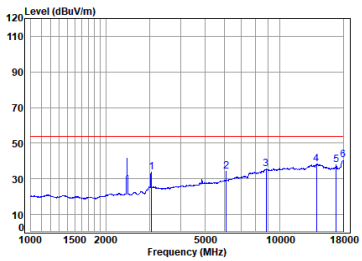
11n_20M_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2437 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	4790.245	8.20	32.00	53.14	57.79	44.85	74.00	-29.15	Peak	0.00
2	7966.832	9.39	36.97	54.17	55.25	47.44	74.00	-26.56	Peak	0.00
3	10010.420	11.83	38.29	54.09	53.98	50.01	74.00	-23.99	Peak	0.00
4	13677.970	11.42	40.74	53.96	52.53	50.73	74.00	-23.27	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.19	49.56	74.00	-24.44	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	46.12	52.31	74.00	-21.69	Peak	0.00

11n_20M_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
Mode : 2437 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	3051.653	5.63	29.30	52.90	51.53	33.56	54.00	-20.44	Average	0.00
2	6088.991	8.17	33.89	53.29	45.62	34.39	54.00	-19.61	Average	0.00
3	8814.957	10.49	38.04	53.95	40.87	35.45	54.00	-18.55	Average	0.00
4	14079.080	10.68	40.37	53.86	40.97	38.16	54.00	-15.84	Average	0.00
5	16891.040	14.58	38.62	51.83	36.45	37.82	54.00	-16.18	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.20	40.39	54.00	-13.61	Average	0.00

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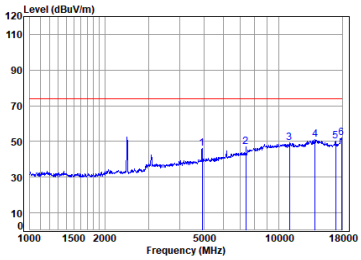
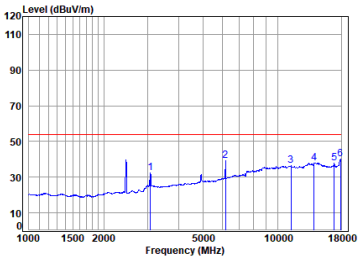
11n_20M_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
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	4930.721	8.30	32.18	53.18	58.56	45.86	74.00	-28.14	Peak	0.00
2	7390.070	9.08	36.76	53.61	54.64	46.87	74.00	-27.13	Peak	0.00
3	11044.130	11.25	38.98	53.62	52.70	49.31	74.00	-24.69	Peak	0.00
4	13997.930	10.61	40.98	53.90	53.29	50.98	74.00	-23.02	Peak	0.00
5	16939.940	14.49	38.80	51.77	48.68	50.20	74.00	-23.80	Peak	0.00
6	pp17896.250	14.48	41.55	51.52	47.44	51.95	74.00	-22.05	Peak	0.00

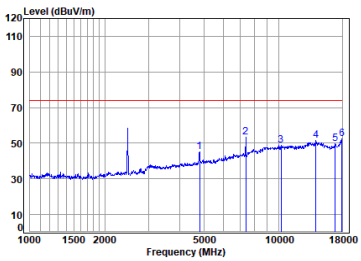
11n_20M_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00033AT/00034AT
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	3078.229	5.70	29.30	52.90	50.22	32.32	54.00	-21.68	Average	0.00
2	6159.797	8.27	34.06	53.28	50.36	39.41	54.00	-14.59	Average	0.00
3	11302.480	11.83	39.01	53.76	39.21	36.29	54.00	-17.71	Average	0.00
4	13997.930	10.61	40.98	53.90	40.39	38.08	54.00	-15.92	Average	0.00
5	16891.040	14.58	38.62	51.83	36.42	37.79	54.00	-16.21	Average	0.00
6	pp17896.250	14.48	41.55	51.52	35.65	40.16	54.00	-13.84	Average	0.00

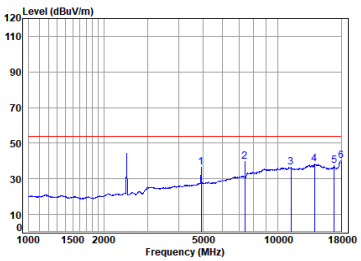
11n_20M_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
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	4804.110	8.21	31.98	53.15	58.30	45.34	74.00	-28.66	Peak	0.00
2	pp 7368.741	9.05	36.46	53.58	61.27	53.20	74.00	-20.80	Peak	0.00
3	10215.020	11.70	38.75	53.99	52.47	48.93	74.00	-25.07	Peak	0.00
4	14119.830	10.73	40.34	53.84	54.27	51.50	74.00	-22.50	Peak	0.00
5	16891.040	14.58	38.62	51.83	48.51	49.88	74.00	-24.12	Peak	0.00
6	17948.050	14.48	42.37	51.51	47.17	52.51	74.00	-21.49	Peak	0.00

11n_20M_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00033AT/00034AT
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	4930.721	8.30	32.18	53.18	49.07	36.37	54.00	-17.63	Average	0.00
2	7390.070	9.08	36.76	53.61	47.46	39.69	54.00	-14.31	Average	0.00
3	11302.480	11.83	39.01	53.76	39.28	36.36	54.00	-17.64	Average	0.00
4	14079.080	10.68	40.37	53.86	40.98	38.17	54.00	-15.83	Average	0.00
5	16891.040	14.58	38.62	51.83	36.27	37.64	54.00	-16.36	Average	0.00
6	pp18000.000	14.49	43.20	51.50	34.14	40.33	54.00	-13.67	Average	0.00

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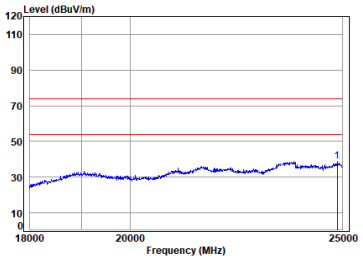
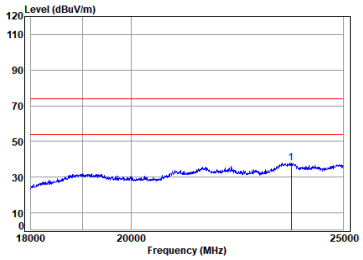
11b_TX_CH_01_Horizontal




```
Condition: 3m HORIZONTAL
Job No   : 00033AT/00034AT
Mode     : 2412 TX RSE
         : 2.4G Wi-Fi 11B
                Cable    Ant Preamp   Read          Limit   Over                Aux
           Freq  Loss Factor Factor  Level  Level   Line  Limit Remark     Factor
           MHz    dB   dB/m     dB   dBuV dBuV/m dBuV/m     dB                 dB

 1 pp24868.940 10.61  39.00  44.66  43.52  38.93  74.00 -35.07 Peak         -9.54
```

11b_TX_CH_01_Vertical




```
Condition: 3m VERTICAL
Job No   : 00033AT/00034AT
Mode     : 2412 TX RSE
         : 2.4G Wi-Fi 11B
                Cable    Ant Preamp   Read          Limit   Over                Aux
           Freq  Loss Factor Factor  Level  Level   Line  Limit Remark     Factor
           MHz    dB   dB/m     dB   dBuV dBuV/m dBuV/m     dB                 dB

 1 pp23673.210  9.20  38.86  45.20  44.51  37.83  74.00 -36.17 Peak         -9.54
```

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7.4 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.9.2
Test Engineer: Sean Xiao

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ 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: 26.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

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

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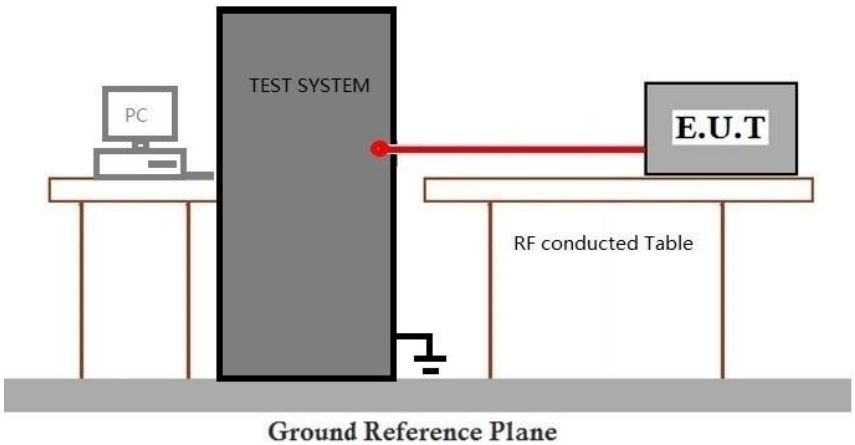
7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

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7.5 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.8.1
Test Engineer: Sean Xiao

Limit:
≥500 kHz

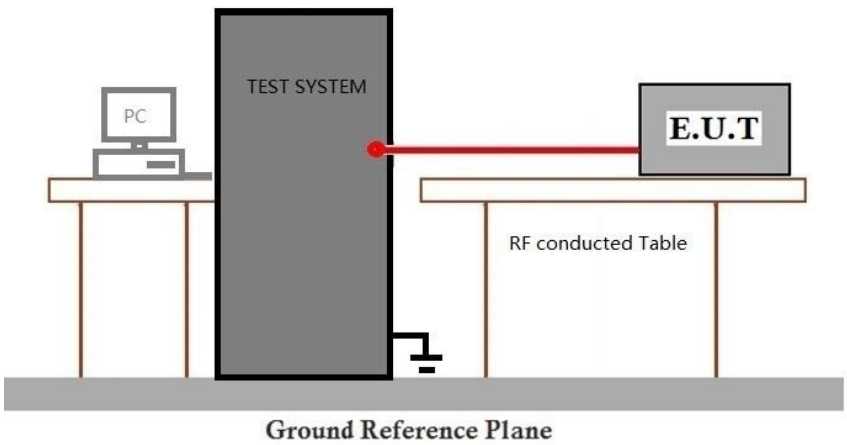
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 26.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

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

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7.6 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.10.3
Test Engineer: Fly Yan

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

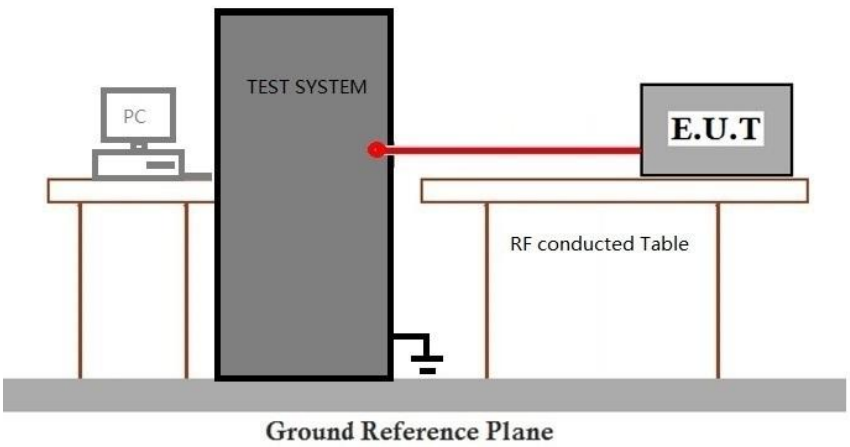
7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 26.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

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

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7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.10.4
Test Engineer: Fly Yan

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: 26.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

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

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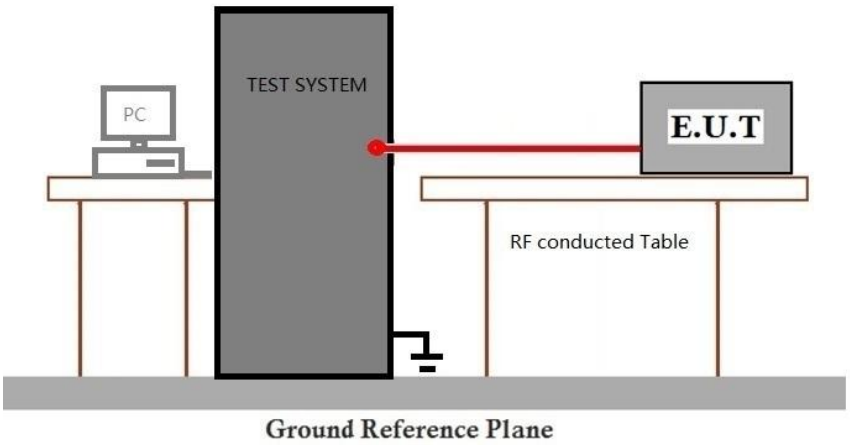
7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.11
Test Engineer: Fly Yan

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: 26.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

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

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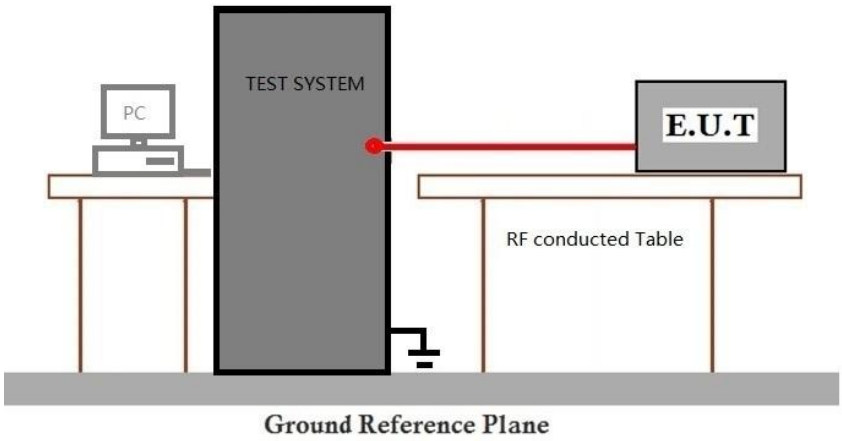
7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2606000033AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for FYCR2606000033AT

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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.223	14.243	85.82	0.66	0.02
		2437	12.223	14.243	85.82	0.66	0.02
		2462	12.224	14.244	85.82	0.66	0.02
802.11g	SISO	2412	28.873	33.400	86.45	0.63	1.06
		2437	26.824	31.184	86.02	0.65	0.66
		2462	26.820	30.900	86.80	0.61	0.56
802.11n (HT20)	SISO	2412	26.873	31.160	86.24	0.64	1.04
		2437	26.877	31.210	86.12	0.65	1.18
		2462	26.914	30.974	86.89	0.61	0.13

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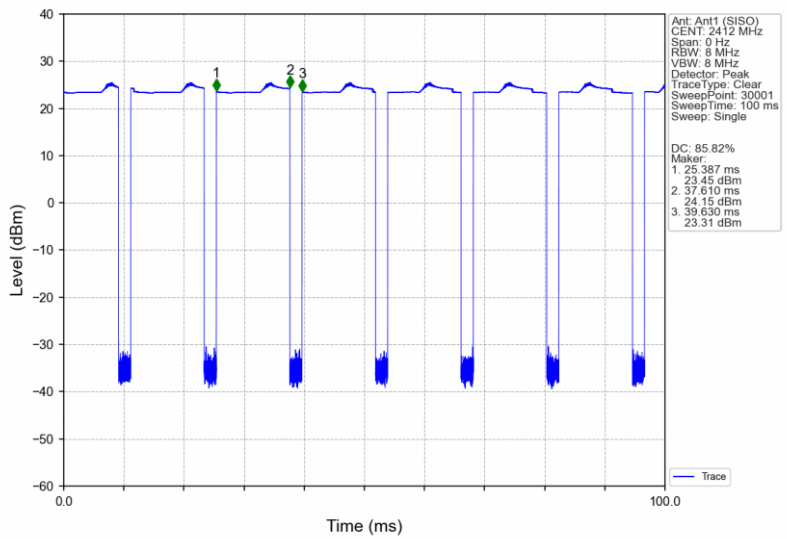
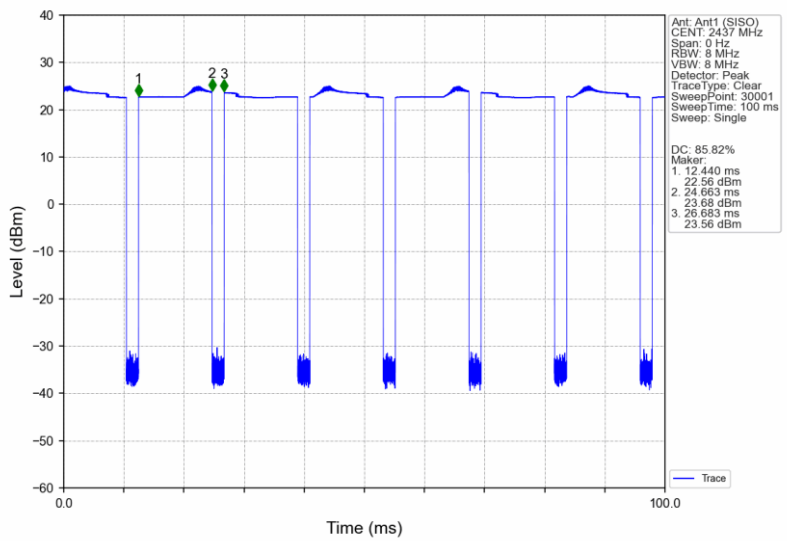
1.2 Test Graph

1.2.1 Ant1

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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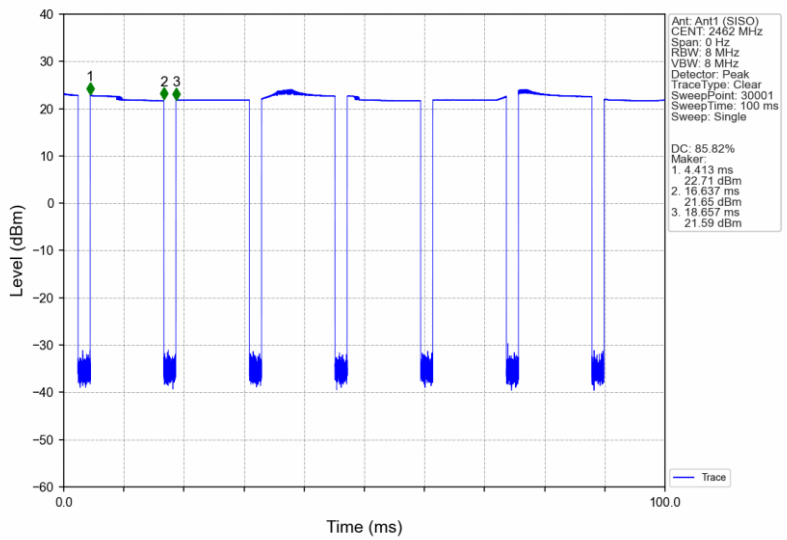
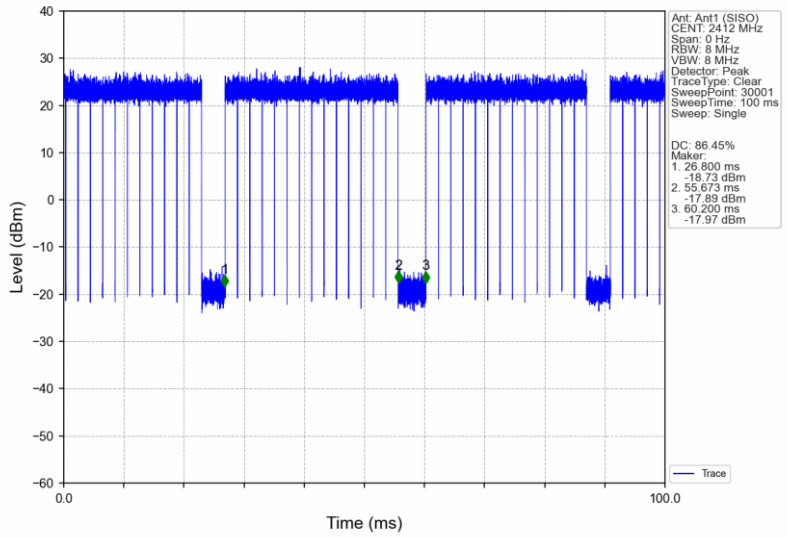
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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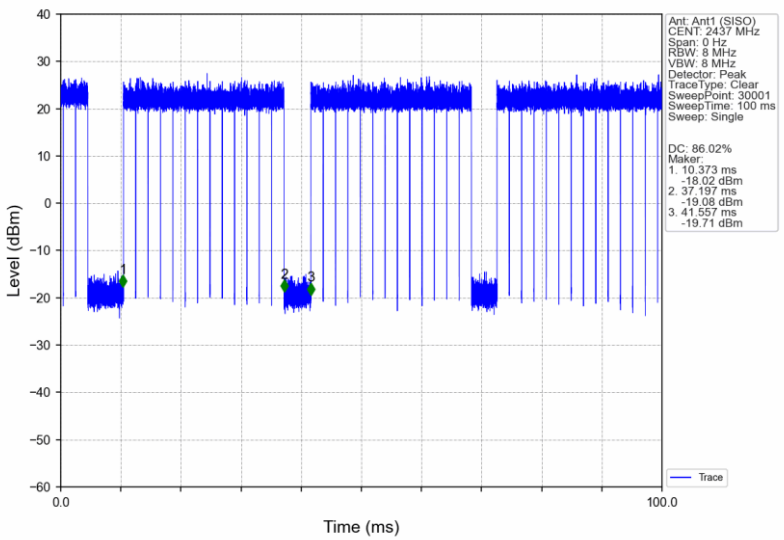
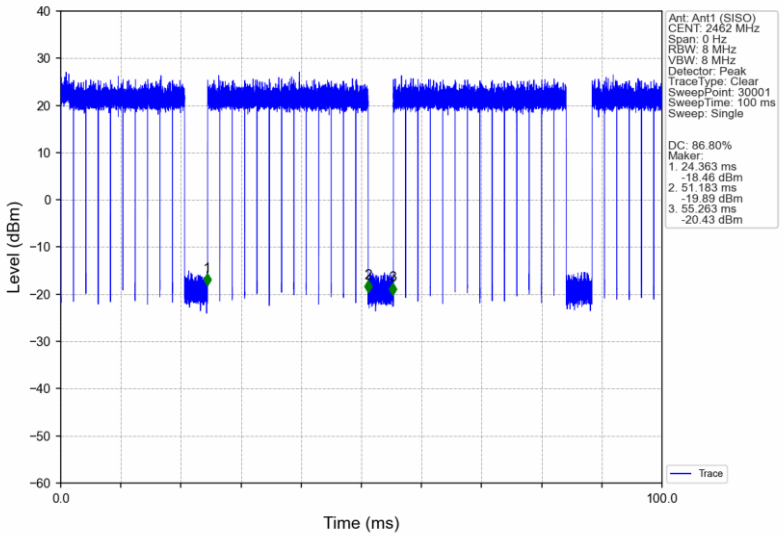
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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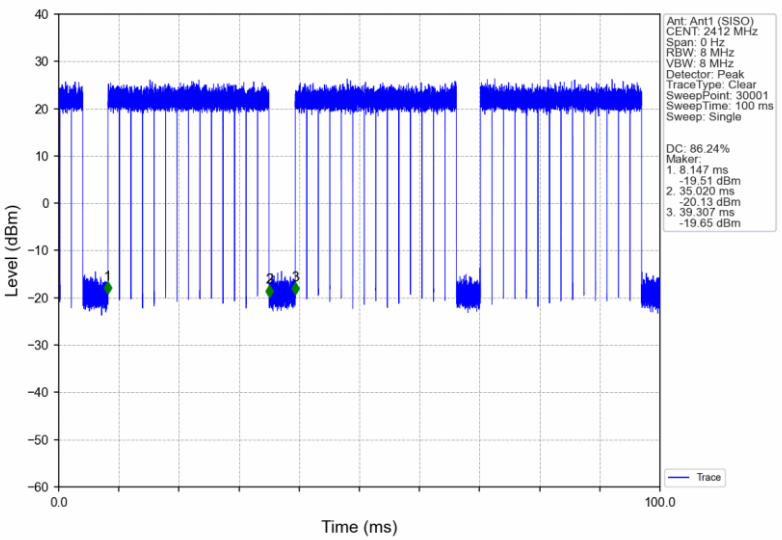
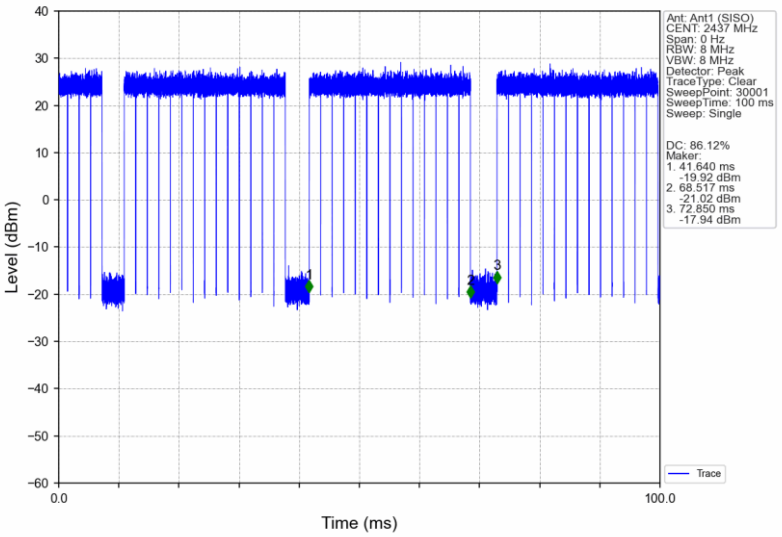
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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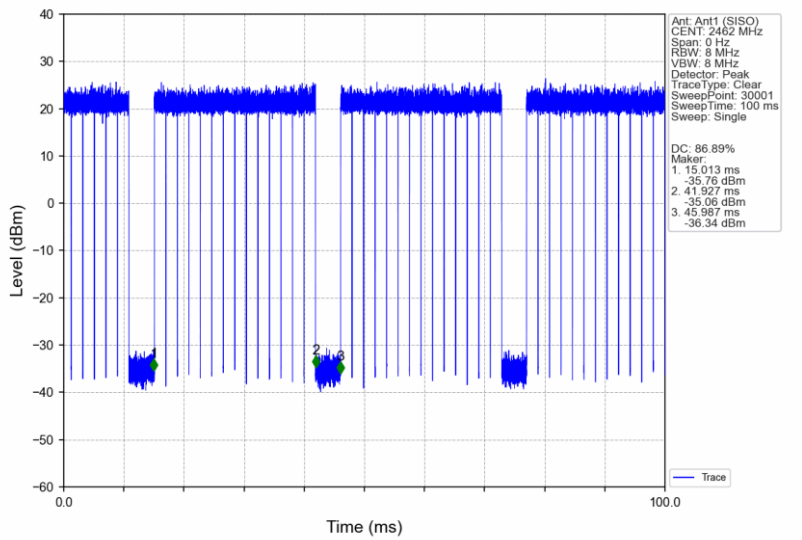
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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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	15.826	/	Pass
		2437	1	15.841	/	Pass
		2462	1	15.820	/	Pass
802.11g	SISO	2412	1	16.953	/	Pass
		2437	1	16.843	/	Pass
		2462	1	16.710	/	Pass
802.11n (HT20)	SISO	2412	1	17.845	/	Pass
		2437	1	18.033	/	Pass
		2462	1	17.821	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.103	>=0.5	Pass
		2437	1	12.119	>=0.5	Pass
		2462	1	11.186	>=0.5	Pass
802.11g	SISO	2412	1	16.456	>=0.5	Pass
		2437	1	16.462	>=0.5	Pass
		2462	1	16.452	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.693	>=0.5	Pass
		2437	1	17.699	>=0.5	Pass
		2462	1	17.690	>=0.5	Pass

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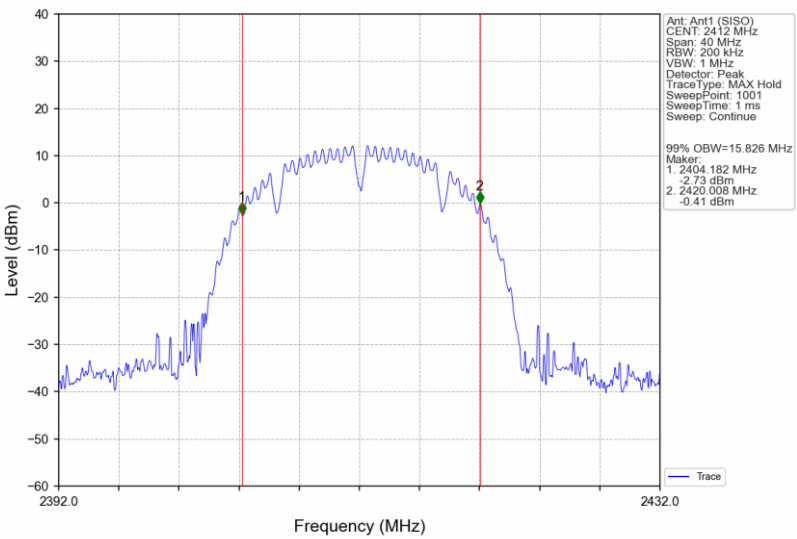
2.2 Test Graph

2.2.1 OBW

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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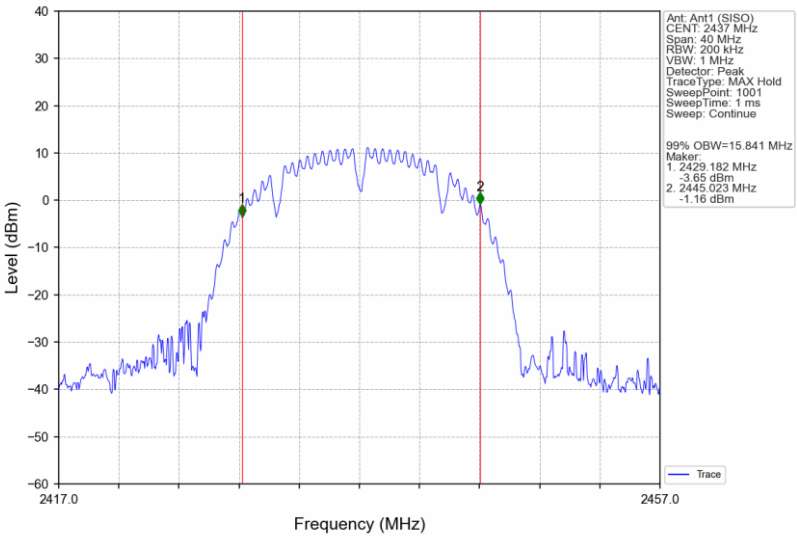

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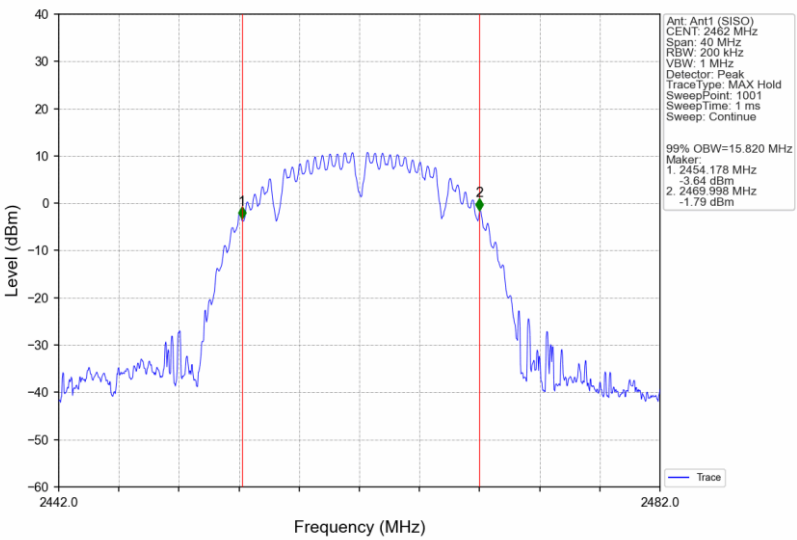
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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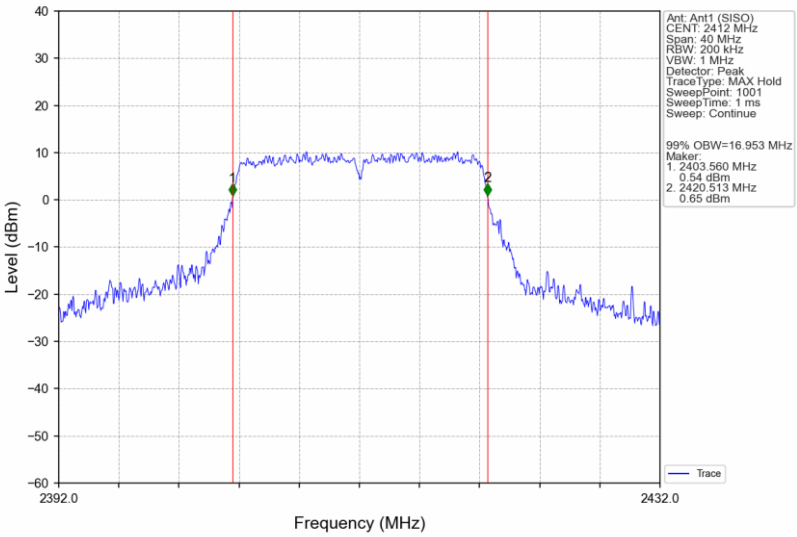

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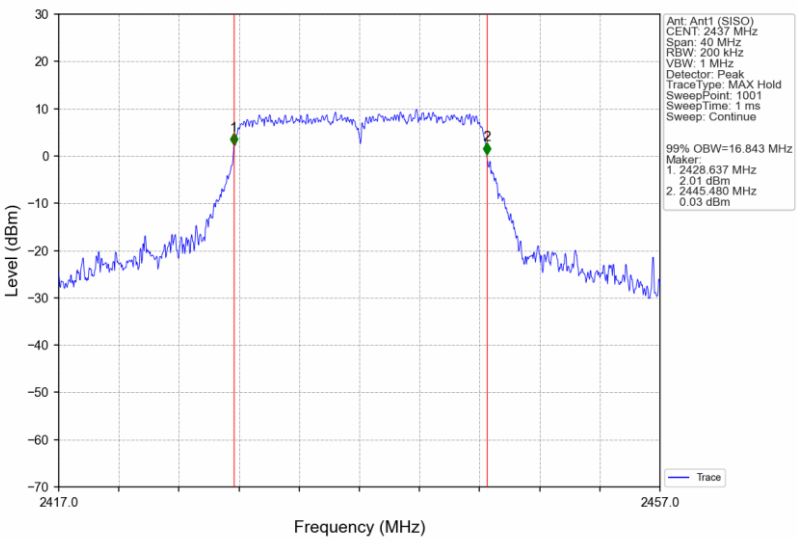
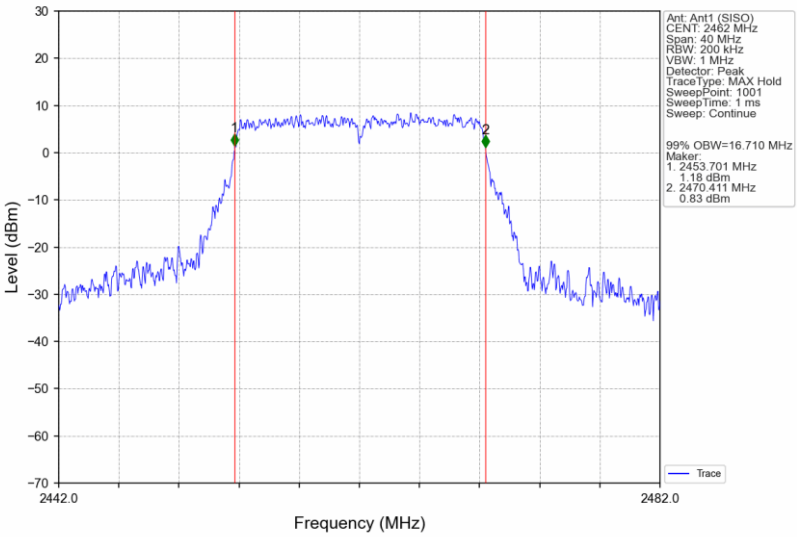
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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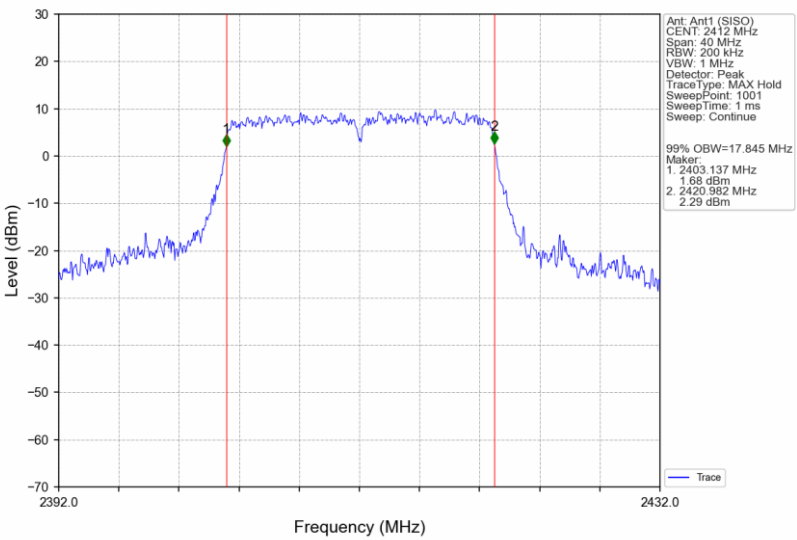
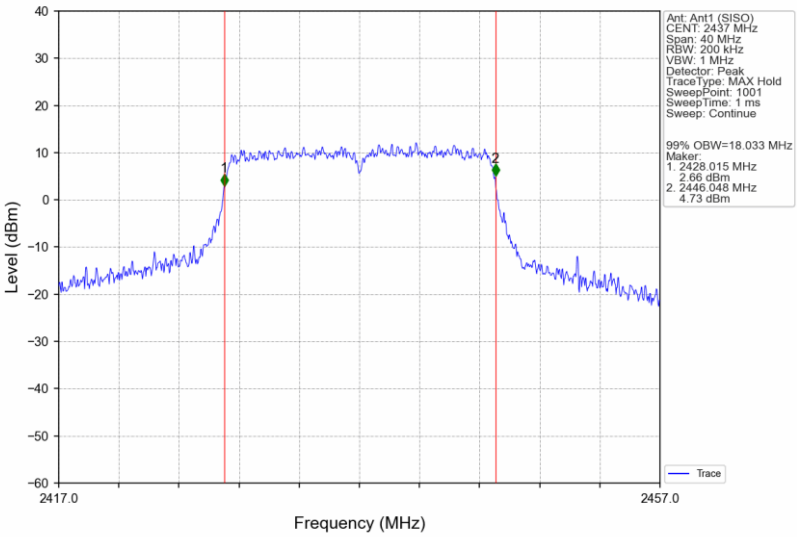
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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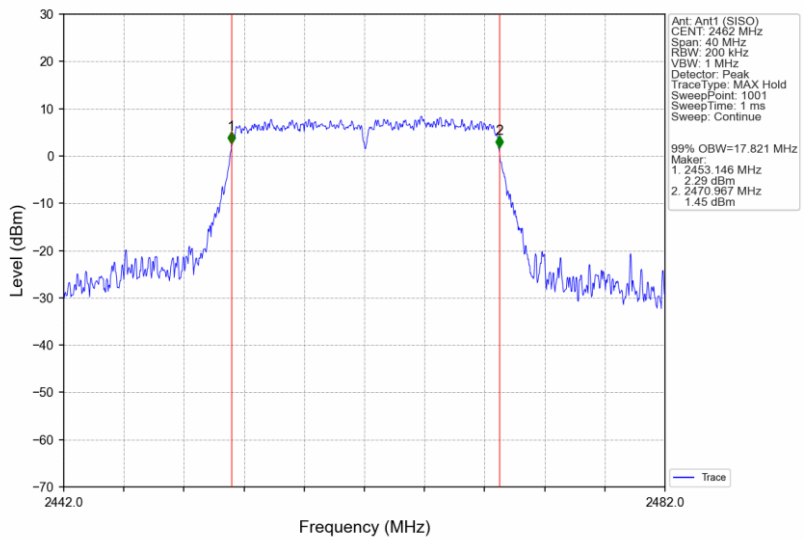
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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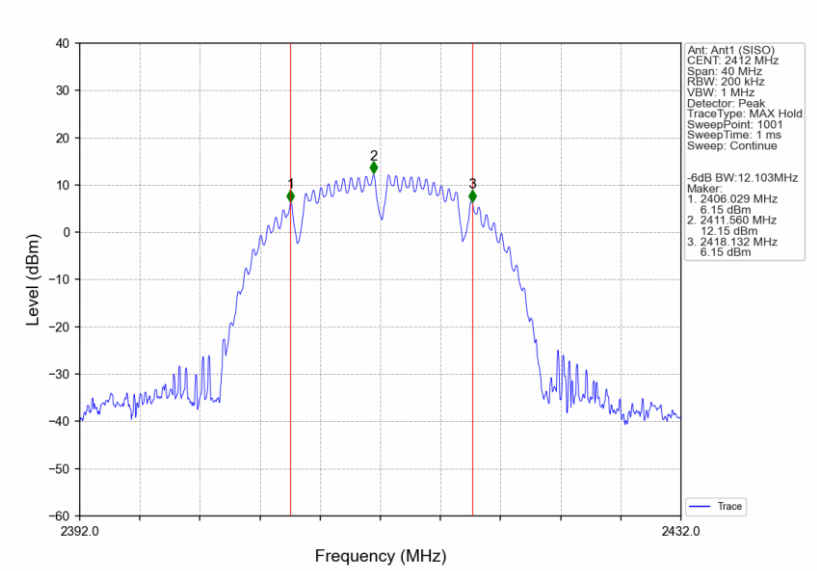
2.2.2 6dB BW

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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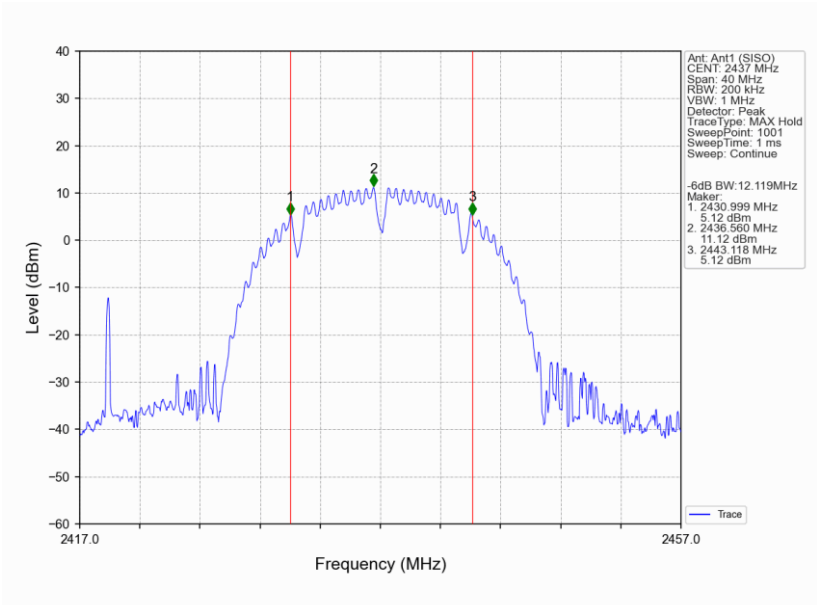

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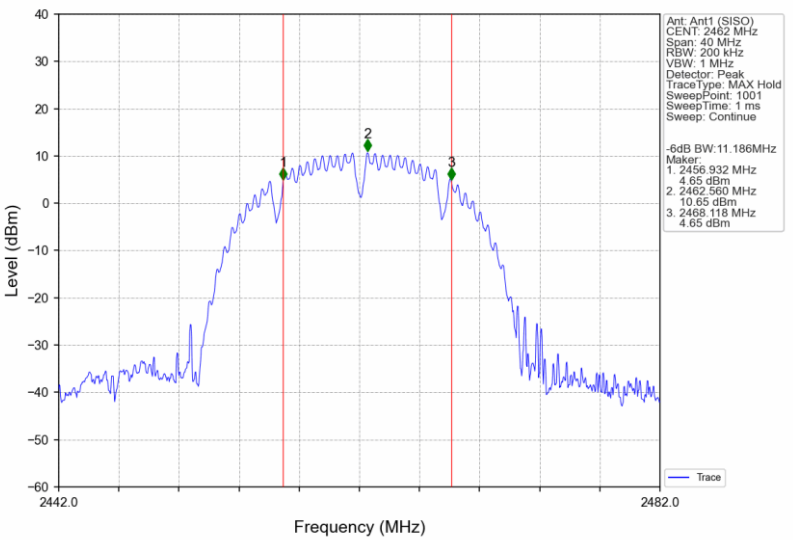
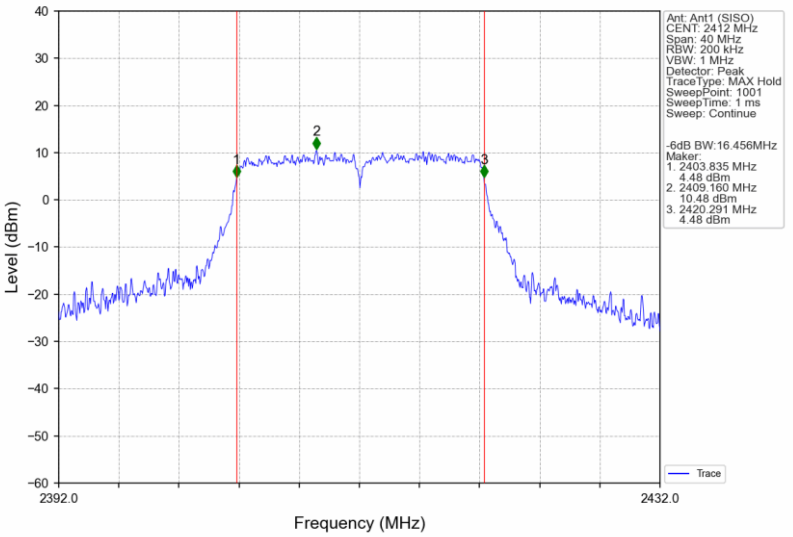
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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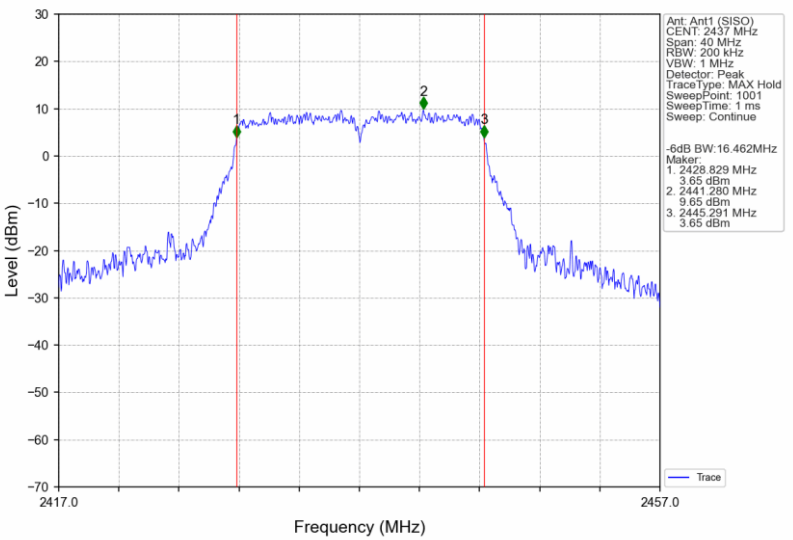
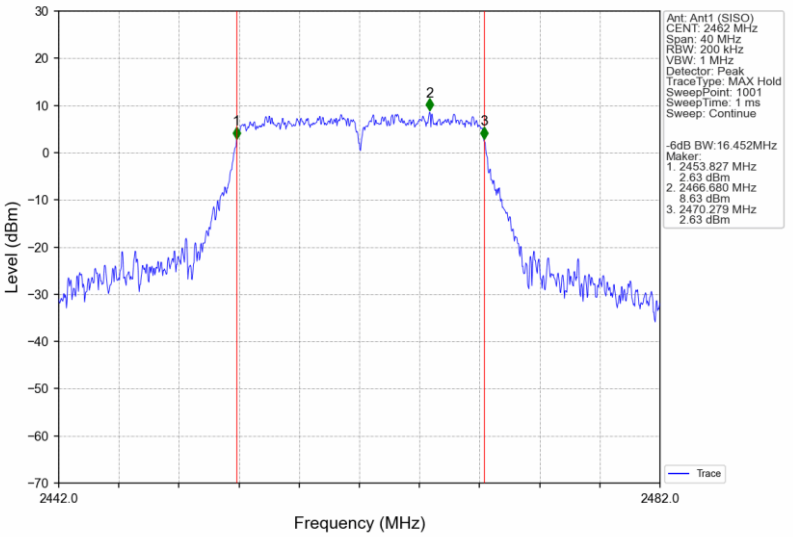
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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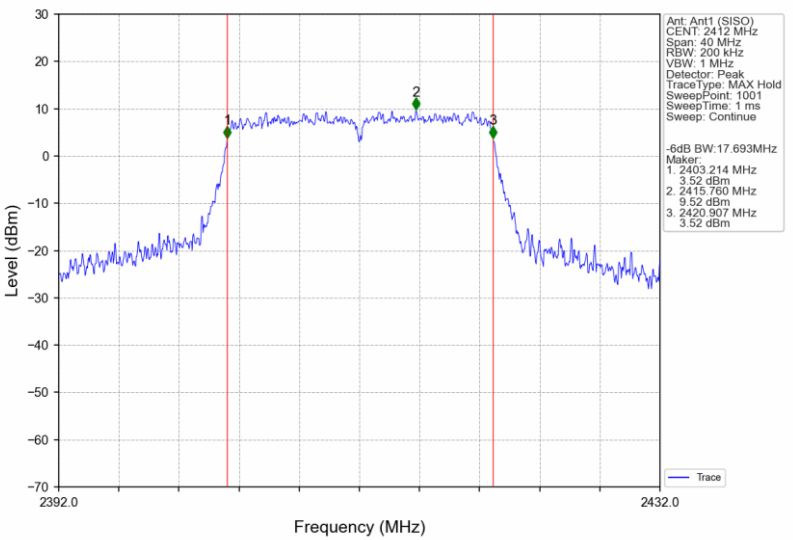
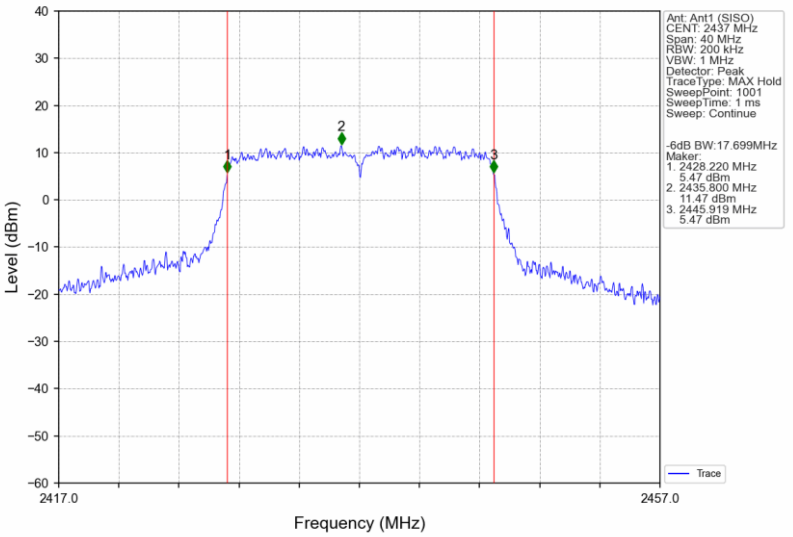
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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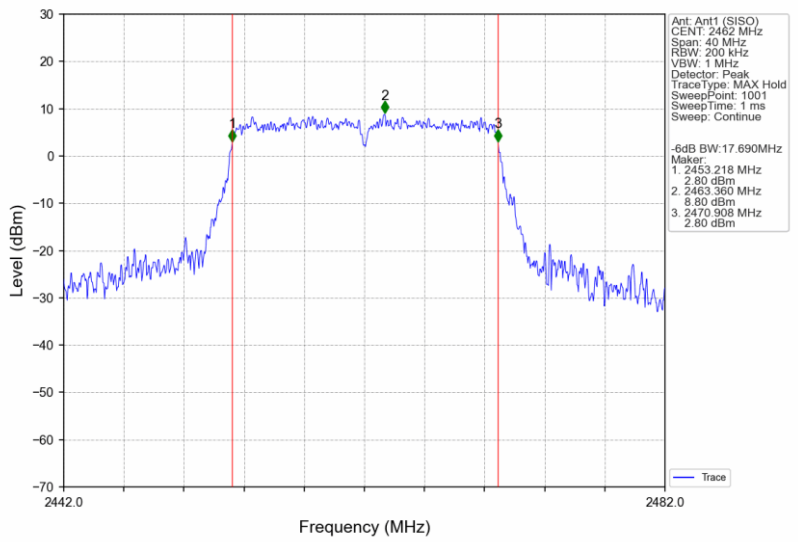
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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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	15.82	<=30	Pass
		2437	15.88	<=30	Pass
		2462	15.72	<=30	Pass
802.11g	SISO	2412	12.42	<=30	Pass
		2437	12.73	<=30	Pass
		2462	12.06	<=30	Pass
802.11n (HT20)	SISO	2412	11.90	<=30	Pass
		2437	13.15	<=30	Pass
		2462	13.49	<=30	Pass
Note1: Antenna Gain: Ant1: 2.30dBi;					

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	-15.86dBm/3kHz	<=8	Pass
		2437	-15.62dBm/3kHz	<=8	Pass
		2462	-15.76dBm/3kHz	<=8	Pass
802.11g	SISO	2412	-19.65dBm/3kHz	<=8	Pass
		2437	-19.87dBm/3kHz	<=8	Pass
		2462	-20.09dBm/3kHz	<=8	Pass
802.11n (HT20)	SISO	2412	-19.58dBm/3kHz	<=8	Pass
		2437	-16.64dBm/3kHz	<=8	Pass
		2462	-19.59dBm/3kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 2.30dBi;					

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4.2 Test Graph

4.2.1 PSD

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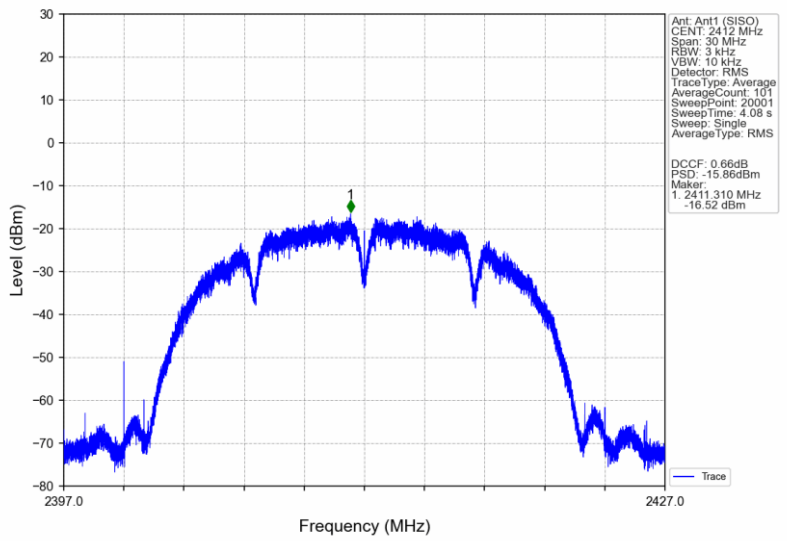

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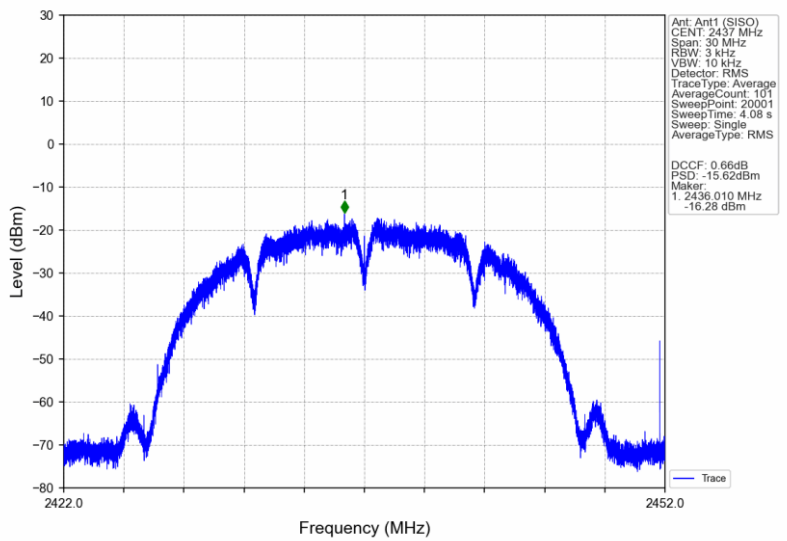

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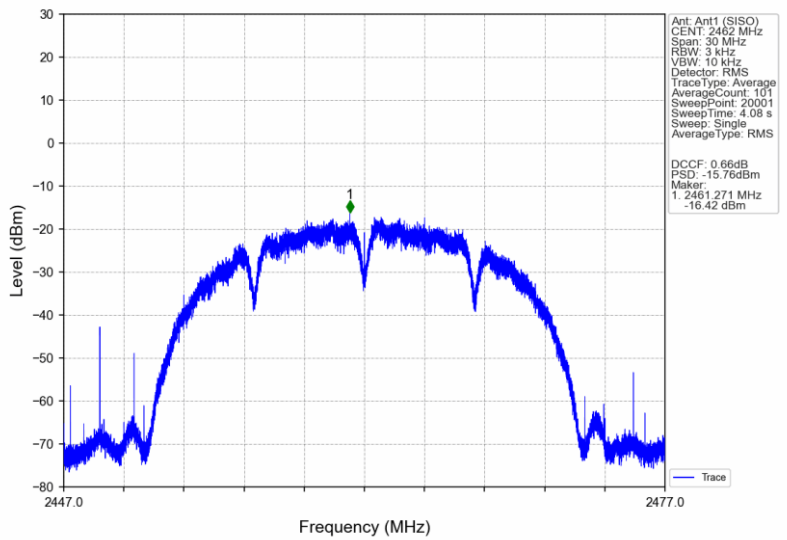
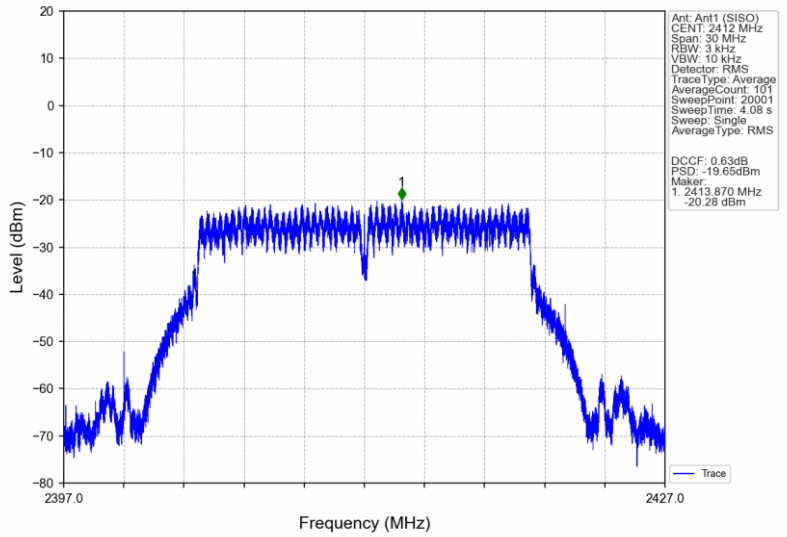


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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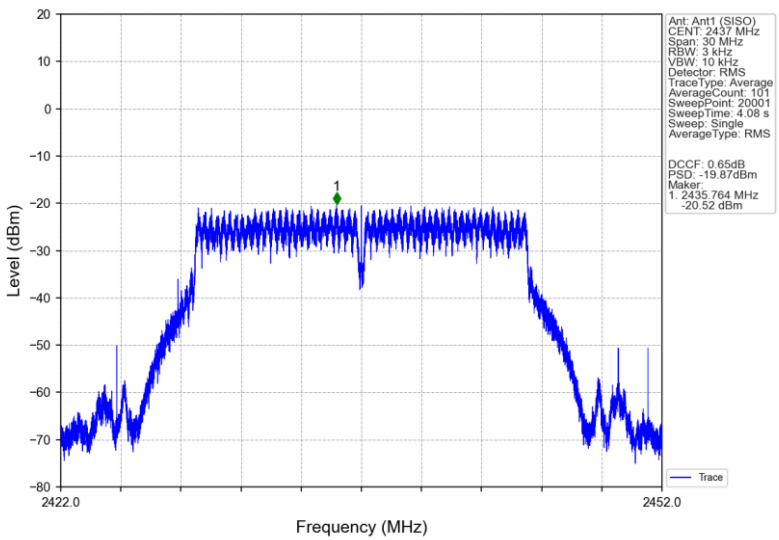
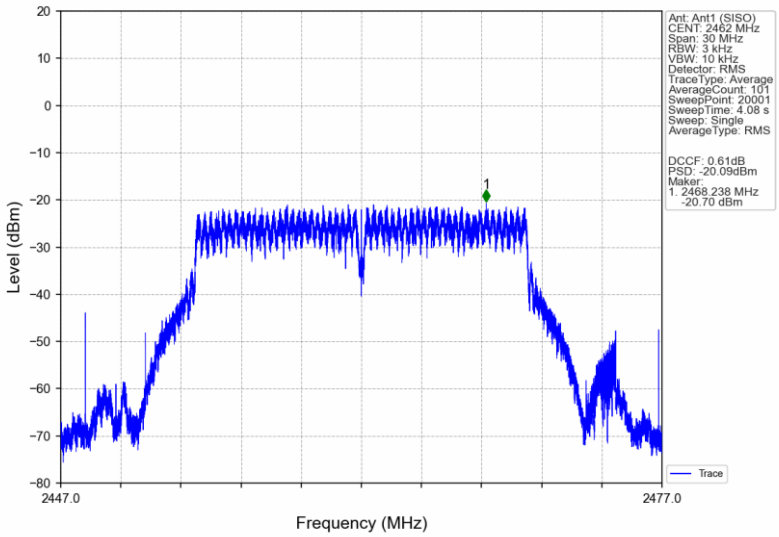
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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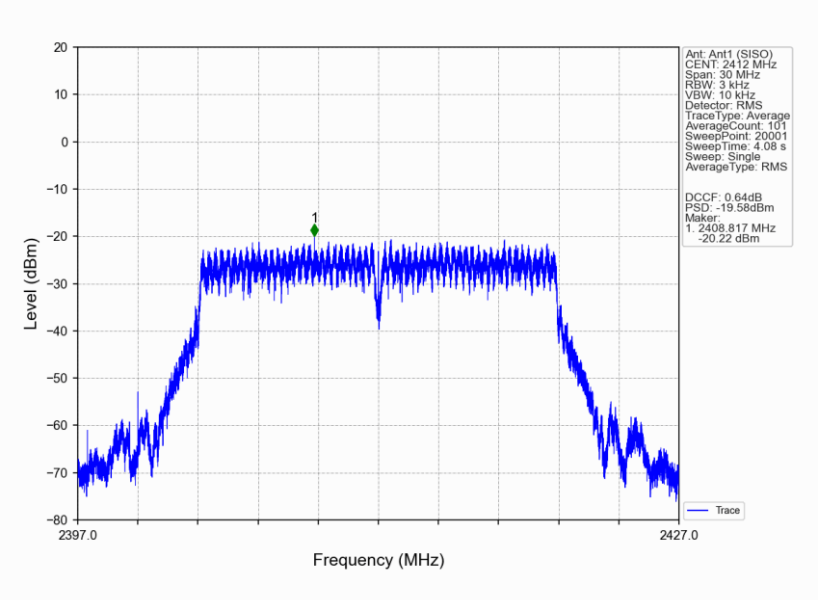
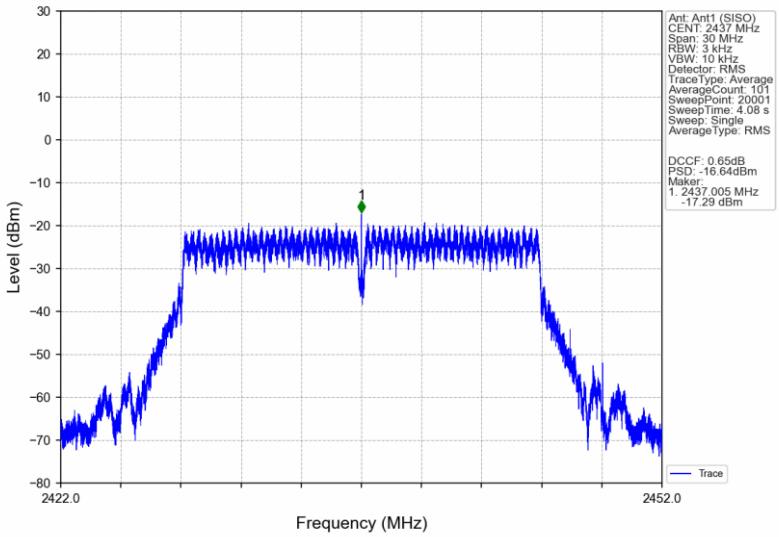
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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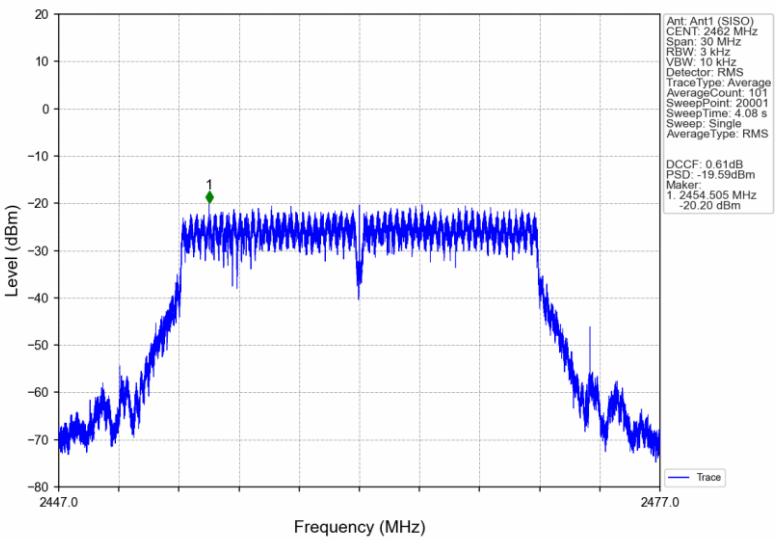
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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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	6.21
		2437	1	5.29
		2462	1	4.99
802.11g	SISO	2412	1	1.60
		2437	1	1.14
		2462	1	0.55
802.11n (HT20)	SISO	2412	1	2.62
		2437	1	2.12
		2462	1	0.32

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	6.21	-23.79	Pass
		2437	1	6.21	-23.79	Pass
		2462	1	6.21	-23.79	Pass
802.11g	SISO	2412	1	1.60	-28.40	Pass
		2437	1	1.60	-28.40	Pass
		2462	1	1.60	-28.40	Pass
802.11n (HT20)	SISO	2412	1	2.62	-27.38	Pass
		2437	1	2.62	-27.38	Pass
		2462	1	2.62	-27.38	Pass

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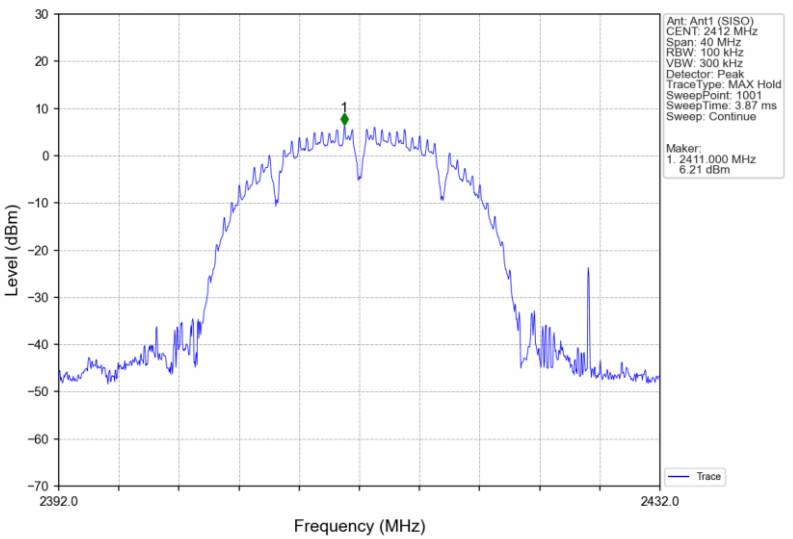
5.2 Test Graph

5.2.1 Ref

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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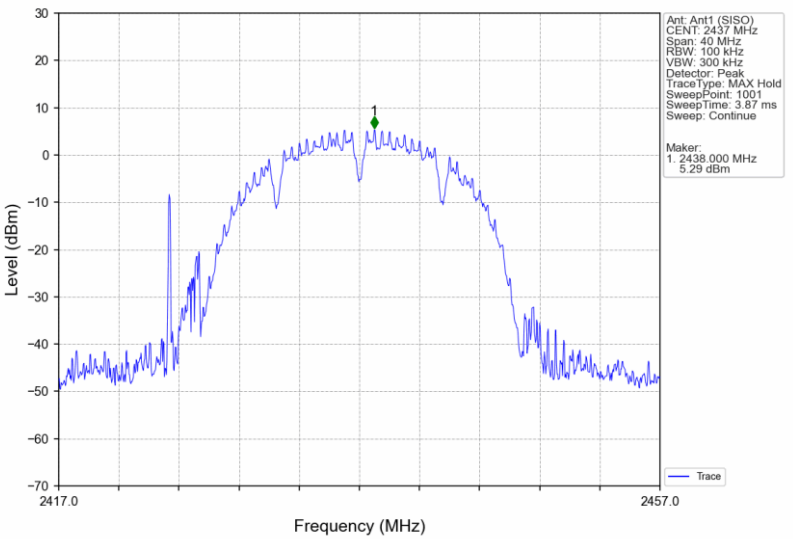

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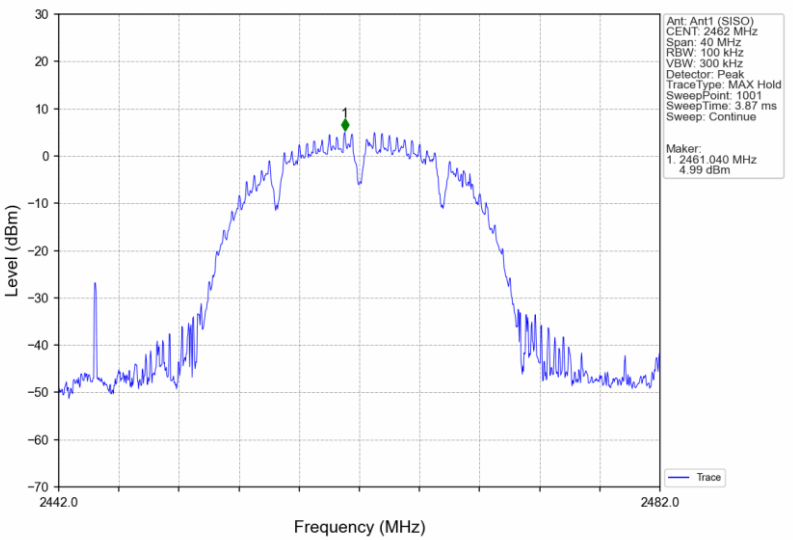
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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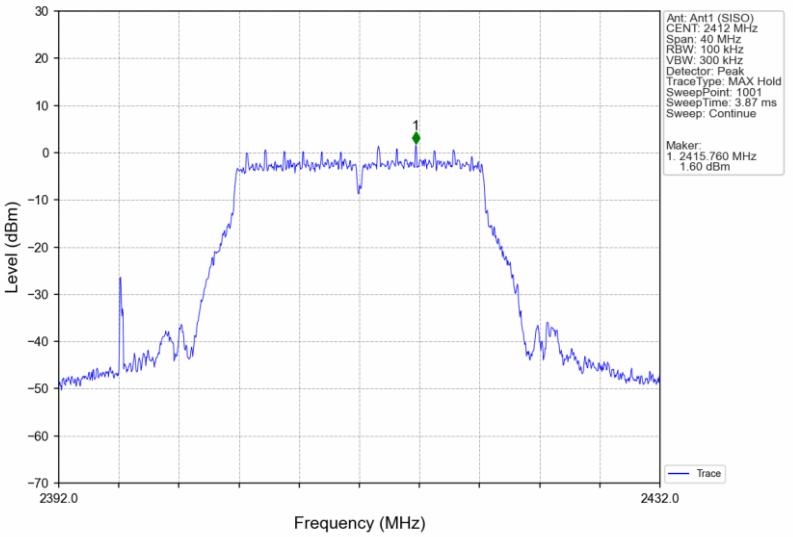

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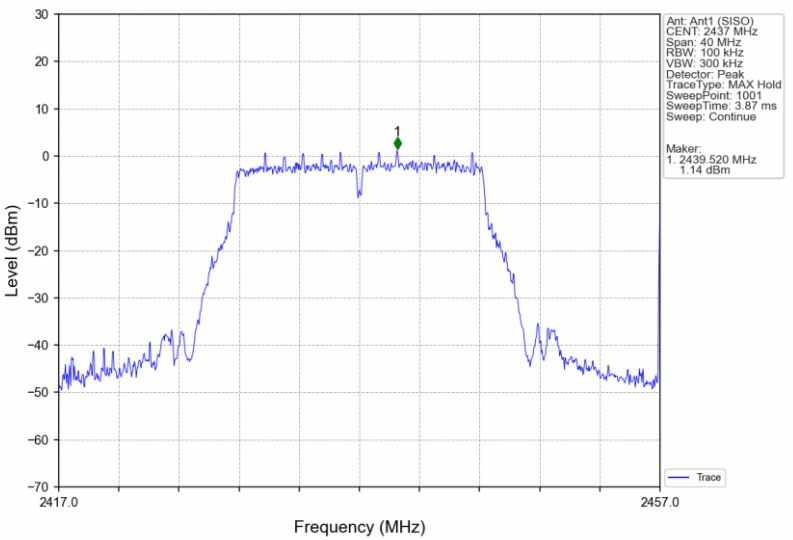
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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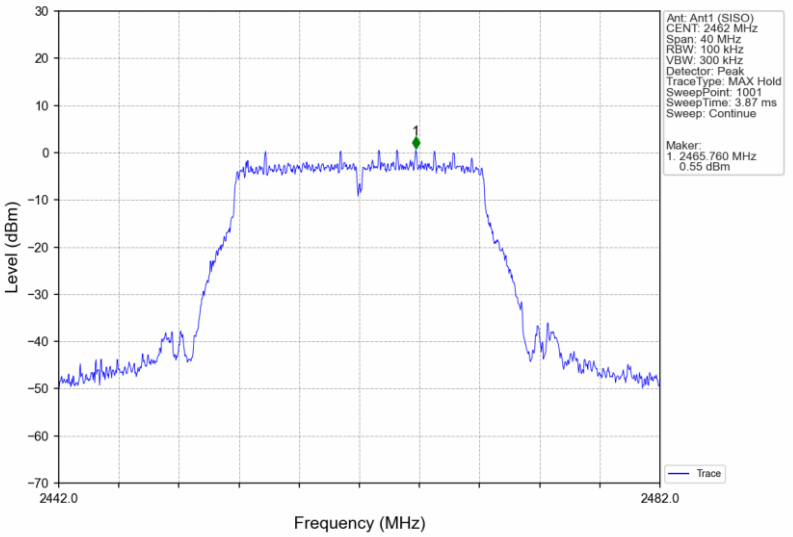

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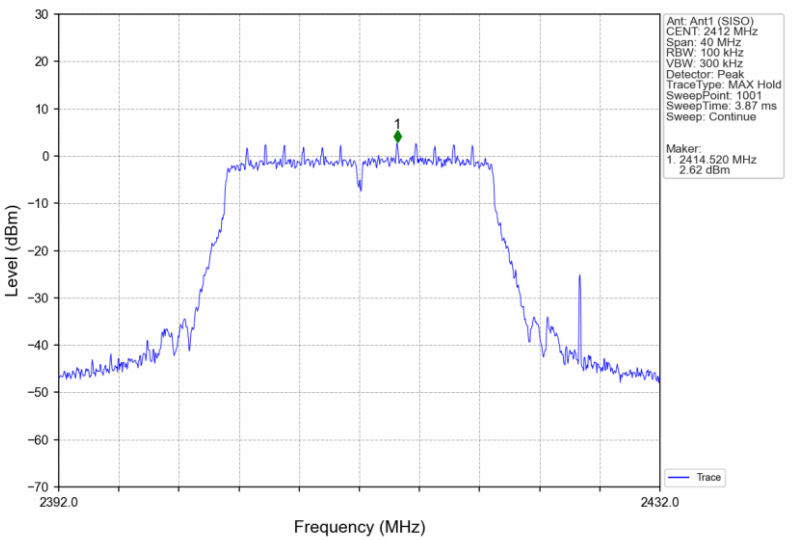
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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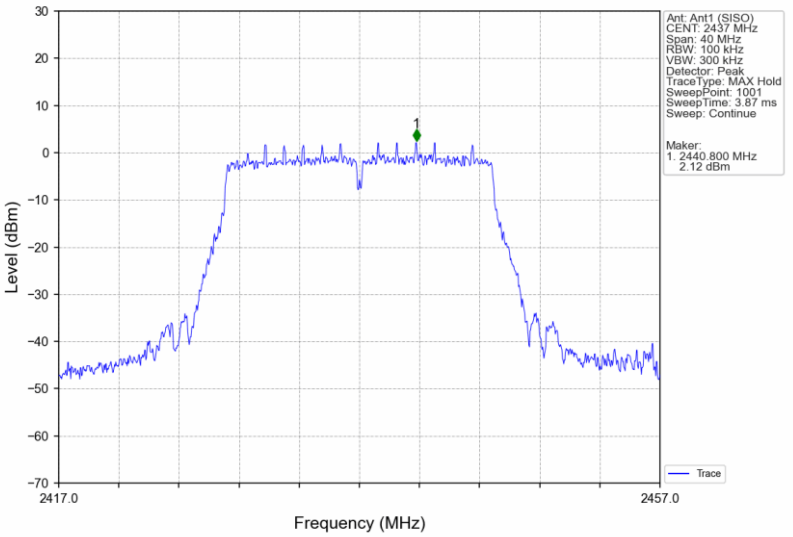

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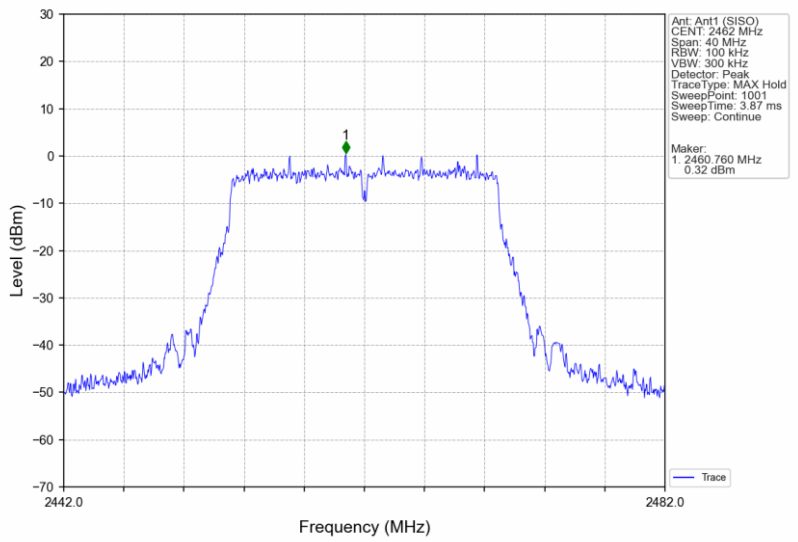

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