TEST REPORT

Application No.:	FYCR2208000291AT
Applicant:	Guangdong creative Double Star Technology Co. Ltd
Address of Applicant:	Yangdongpian Industrial area, Dongwan, Lianxia, Chenghai, Shantou, China
Manufacturer:	Guangdong creative Double Star Technology Co. Ltd
Address of Manufacturer:	Yangdongpian Industrial area, Dongwan, Lianxia, Chenghai, Shantou, China
Equipment Under Test (EUT):	
EUT Name:	RC DRONE
Model No.:	SX19HF, SX01(F), SX02(F), SX03(F), SX04(F), SX05(F), SX06(F), SX07(F), SX08(F), SX09(F), SX10(F), SX11(F), SX12(F), SX13(F), SX14(F), SX15(F), SX16(F), SX17(F), SX18(F), SX20(F), SX21(F), SX22(F), SX23(F), SX24(F), SX25(F), SX26(F), SX27(F), SX28(F), SX29(F), SX30(F), SX31(F), SX32(F), SX33(F), SX34(F), SX35(F), SX36(F), SX37(F), SX38(F), SX39(F), SX40(F), SX41(F), SX42(F), SX43(F), SX44(F), SX45(F), SX46(F), SX47(F), SX48(F), SX49(F), SX50(F), SX52(F), SX53(F), SX54(F), SX55(F), SX56(F), SX57(F), SX58(F), SX59(F), SX60(F), SX61(F), SX62(F), SX63(F), SX64(F), SX65(F), SX66(F), SX67(F), SX68(F), SX69(F), SX70(F), SX71(F), SX72(F), SX73(F), SX74(F), SX75(F), SX76(F), SX77(F), SX78(F), SX79(F), SX80(F) ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID:	2AMOY24SX19WIFI
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2022-08-02
Date of Test:	2022-08-02 to 2022-08-30
Date of Issue:	2022-09-02
Test Result:	**Pass***

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

Winkey Wang
EMC Technical Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2022-09-02		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Declaration of EUT Family Grouping:

Model No.: SX19HF, SX01(F), SX02(F), SX03(F), SX04(F), SX05(F), SX06(F), SX07(F), SX08(F), SX09(F), SX10(F), SX11(F), SX12(F), SX13(F), SX14(F), SX15(F), SX16(F), SX17(F), SX18(F), SX20(F), SX21(F), SX22(F), SX23(F), SX24(F), SX25(F), SX26(F), SX27(F), SX28(F), SX29(F), SX30(F), SX31(F), SX32(F), SX33(F), SX34(F), SX35(F), SX36(F), SX37(F), SX38(F), SX39(F), SX40(F), SX41(F), SX42(F), SX43(F), SX44(F), SX45(F), SX46(F), SX47(F), SX48(F), SX49(F), SX50(F), SX52(F), SX53(F), SX54(F), SX55(F), SX56(F), SX57(F), SX58(F), SX59(F), SX60(F), SX61(F), SX62(F), SX63(F), SX64(F), SX65(F), SX66(F), SX67(F), SX68(F), SX69(F), SX70(F), SX71(F), SX72(F), SX73(F), SX74(F), SX75(F), SX76(F), SX77(F), SX78(F), SX79(F), SX80(F)

Only the model SX19HF was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference being of color, appearance, packaging and model No..

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4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery DC3.7V 550mAh for Drone ,Charged by USB Charger USB Charger Input:DC5V 2A Output:DC3.7V 0.5A
Cable(s):	USB cable:60cm unshielded
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:	Integral
Antenna Gain:	1.5dBi

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

4.2 Description of Support Units

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

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.8dB
Minimum 6dB Bandwidth	± 0.3%
Power Spectrum Density	± 0.4dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)
Remark: The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

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4.4 Test Location

All tests were performed at:

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 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Peak Output Power					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	V2.0	N/A	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	V2.0	N/A	N/A	N/A

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Power Spectrum Density					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	V2.0	N/A	N/A	N/A

Conducted Band Edges Measurement					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	V2.0	N/A	N/A	N/A

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Conducted Spurious Emissions					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	V2.0	N/A	N/A	N/A

Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/7/12	2023/7/11
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2022/7/12	2023/7/11
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14

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Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
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	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
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	2021/7/13	2024/7/12
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/7/12	2023/7/11
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2022/7/12	2023/7/11
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	Audix	e3 V8.2014-6-27	N/A	N/A	N/A

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General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11

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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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.5dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

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

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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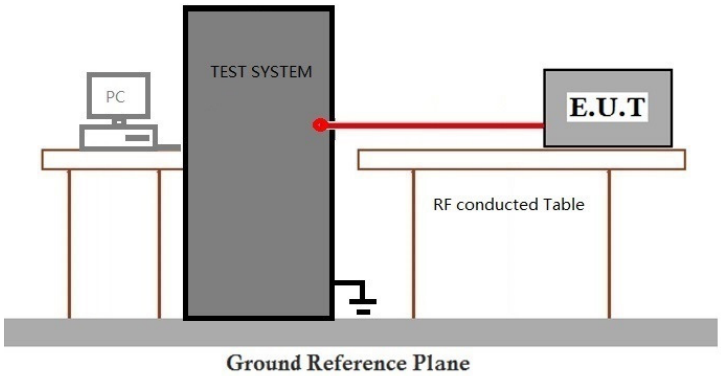
7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

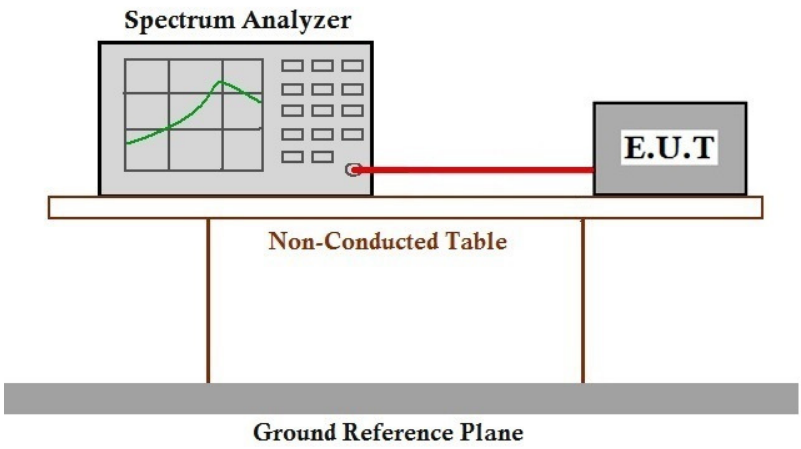
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

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

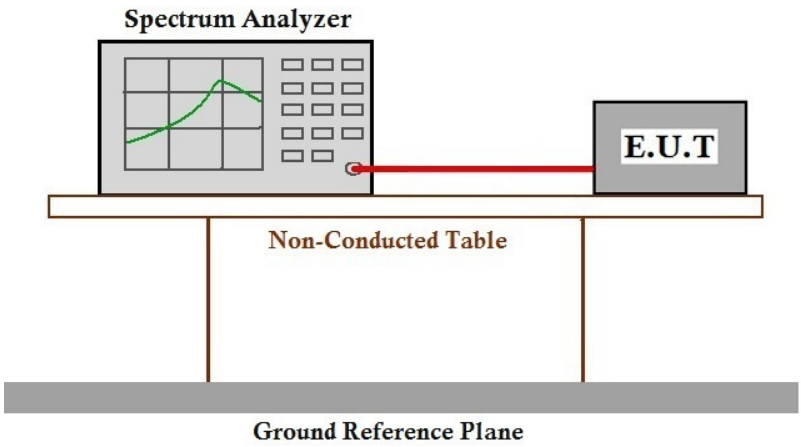
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.4 Conducted Band Edges Measurement

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

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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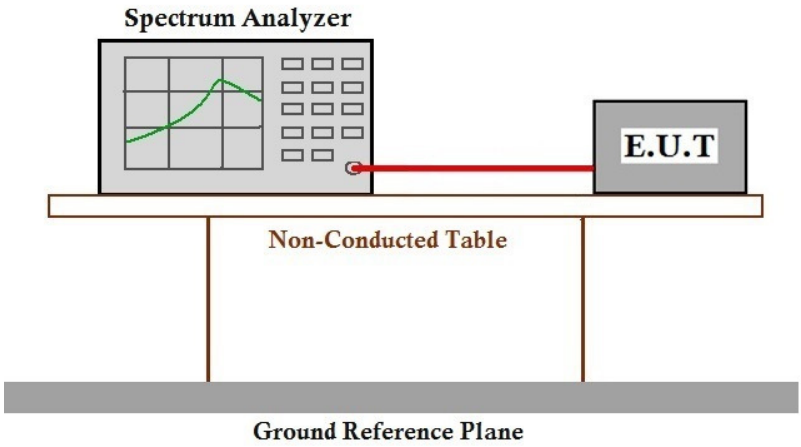
7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 Conducted Spurious Emissions

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

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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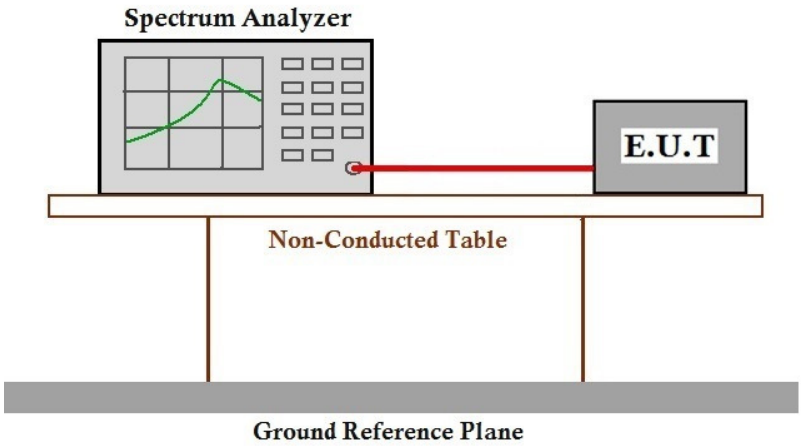
7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 22.2 °C Humidity: 54.7 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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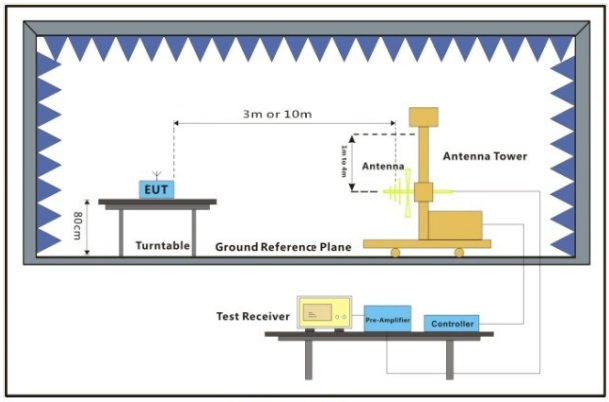
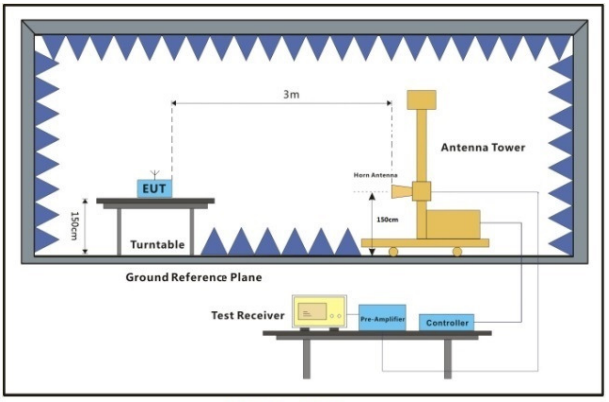
7.6.3 Test Setup Diagram



30MHz-1GHz



Above 1GHz

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7.6.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

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

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

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

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

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

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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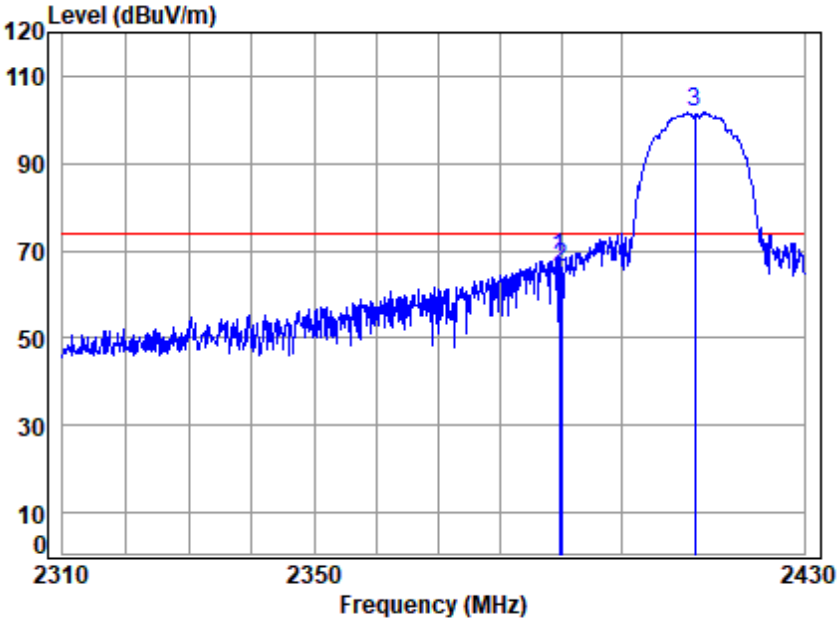
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.7260	5.05	27.16	32.50	68.68	68.39	74.00	-5.61	peak
2	2390.0000	5.05	27.16	32.50	66.40	66.11	74.00	-7.89	peak
3	2412.0000	5.07	27.21	32.50	101.87	101.65	74.00	27.65	peak

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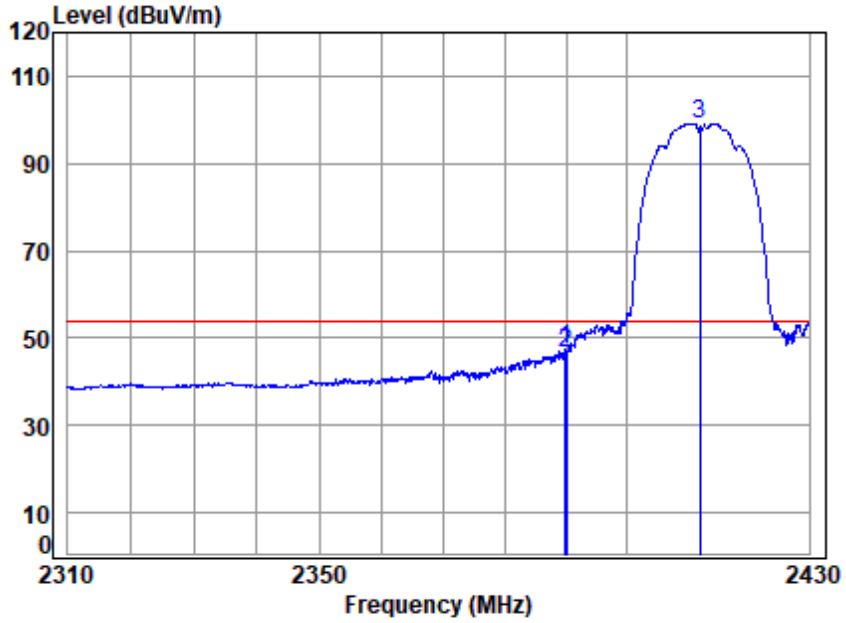
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.8470	5.05	27.16	32.50	47.70	47.41	54.00	-6.59	Average
2	2390.0000	5.05	27.16	32.50	46.87	46.58	54.00	-7.42	Average
3	2412.0000	5.07	27.21	32.50	99.32	99.10	54.00	45.10	Average

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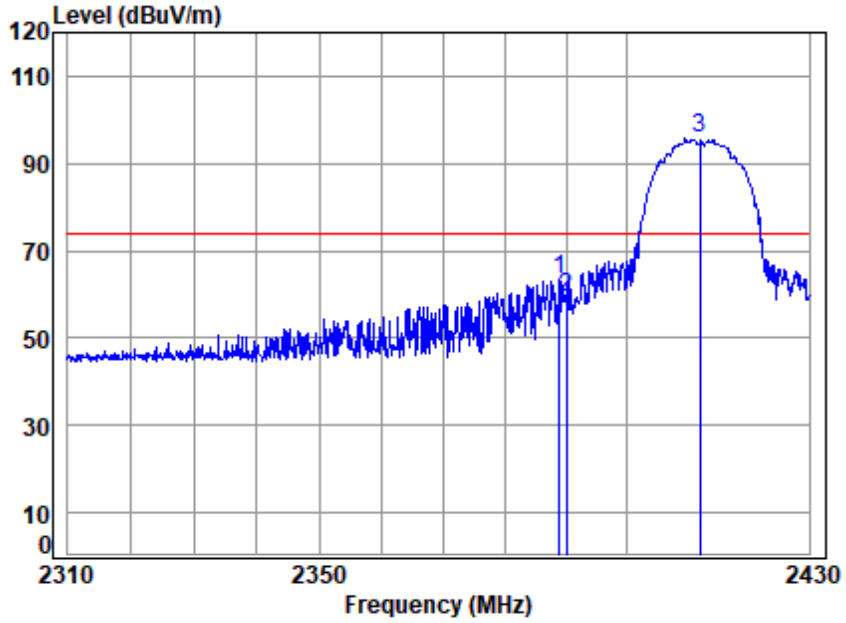
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.8790	5.05	27.16	32.50	63.51	63.22	74.00	-10.78	Peak
2	2390.0000	5.05	27.16	32.50	59.41	59.12	74.00	-14.88	Peak
3	2412.0000	5.07	27.21	32.50	96.13	95.91	74.00	21.91	Peak

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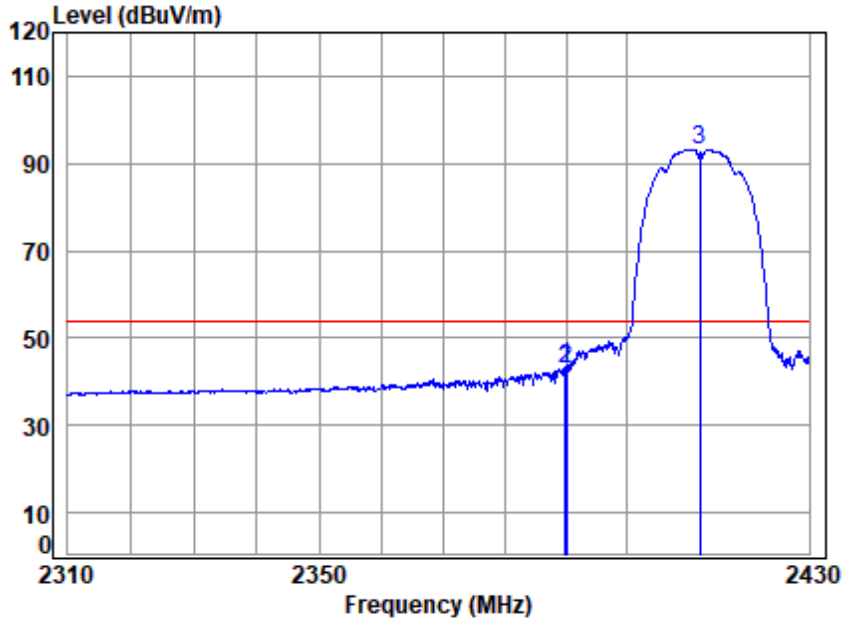
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.8470	5.05	27.16	32.50	43.75	43.46	54.00	-10.54	Average
2	2390.0000	5.05	27.16	32.50	43.11	42.82	54.00	-11.18	Average
3	2412.0000	5.07	27.21	32.50	93.41	93.19	54.00	39.19	Average

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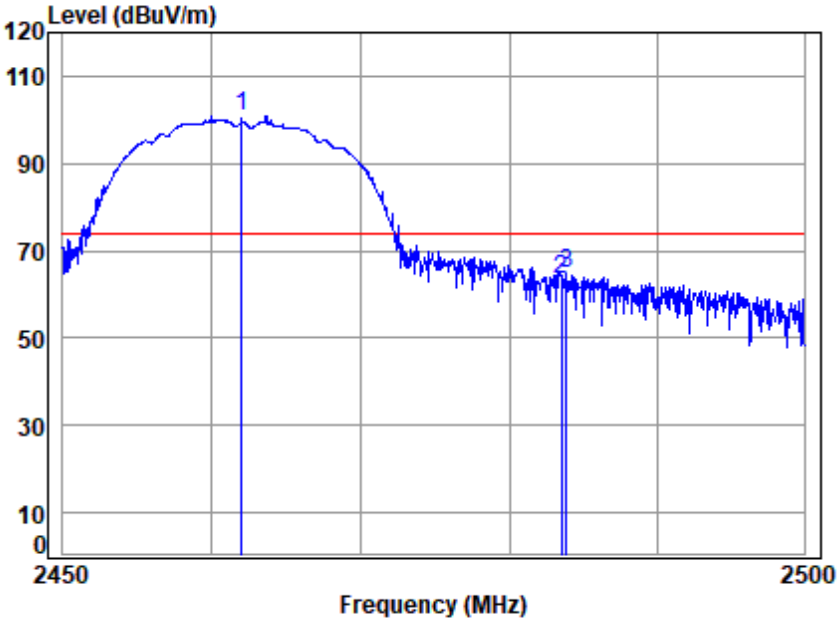
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.0000	5.10	27.32	32.50	100.83	100.75	74.00	26.75	peak
2	2483.5000	5.12	27.36	32.50	63.65	63.63	74.00	-10.37	peak
3	2483.8400	5.12	27.37	32.50	64.57	64.56	74.00	-9.44	peak

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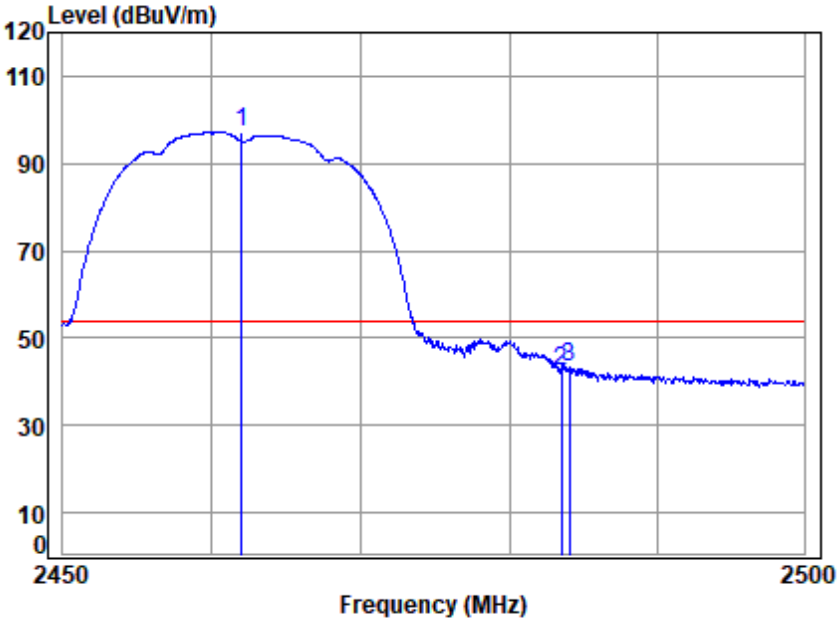
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.0000	5.10	27.32	32.50	97.11	97.03	54.00	43.03	Average
2	2483.5000	5.12	27.36	32.50	42.27	42.25	54.00	-11.75	Average
3	2484.0410	5.12	27.37	32.50	43.51	43.50	54.00	-10.50	Average

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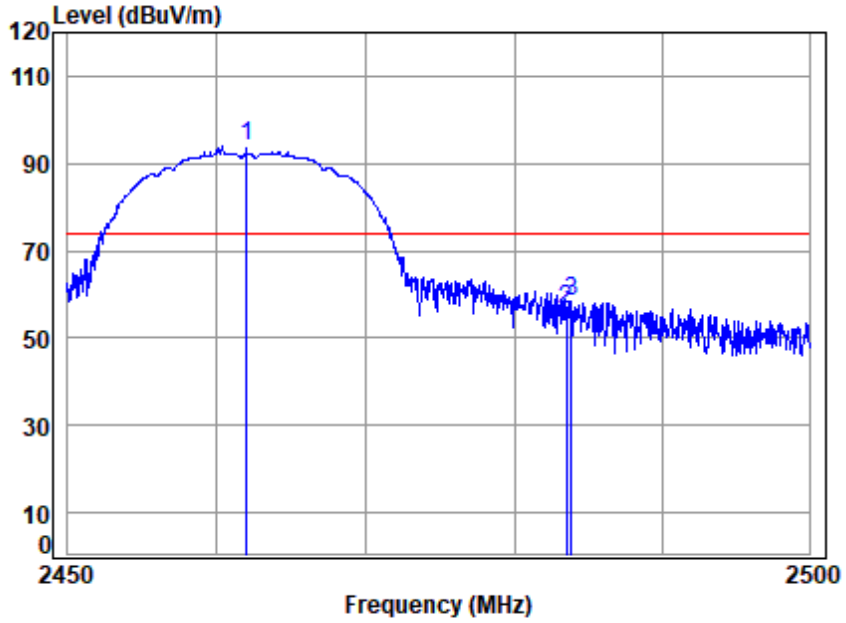
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.0000	5.10	27.32	32.50	94.16	94.08	74.00	20.08	Peak
2	2483.5000	5.12	27.36	32.50	56.53	56.51	74.00	-17.49	Peak
3	2483.8400	5.12	27.37	32.50	58.26	58.25	74.00	-15.75	Peak

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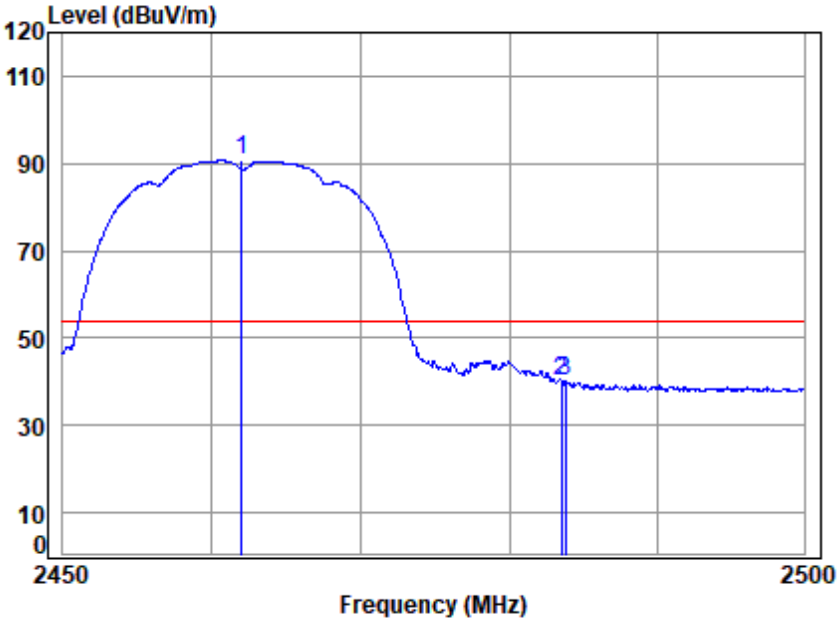
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.0000	5.10	27.32	32.50	90.67	90.59	54.00	36.59	Average
2	2483.5000	5.12	27.36	32.50	40.33	40.31	54.00	-13.69	Average
3	2483.7900	5.12	27.37	32.50	40.10	40.09	54.00	-13.91	Average

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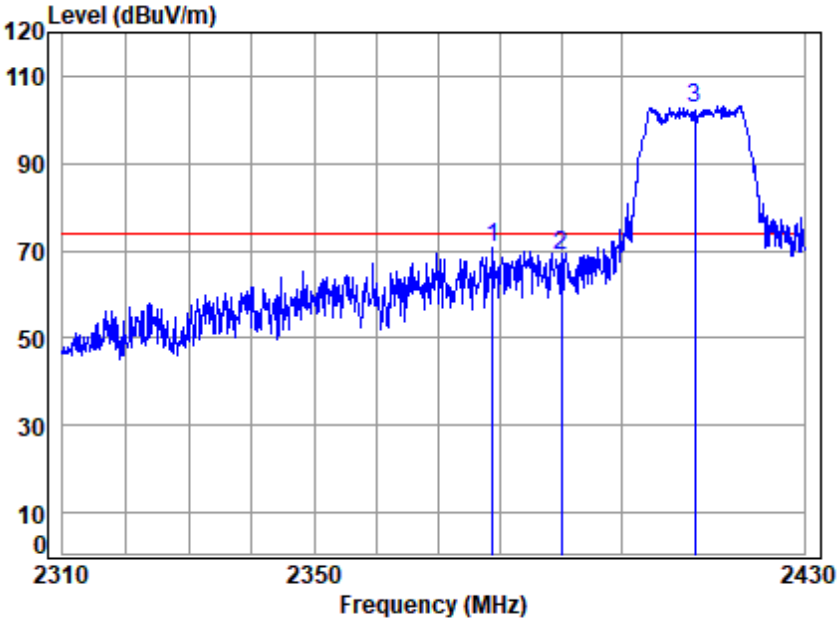
Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	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	2378.8590	5.05	27.13	32.50	71.00	70.68	74.00	-3.32	Peak
2	2390.0000	5.05	27.16	32.50	69.02	68.73	74.00	-5.27	peak
3	2412.0000	5.07	27.21	32.50	103.07	102.85	74.00	28.85	peak

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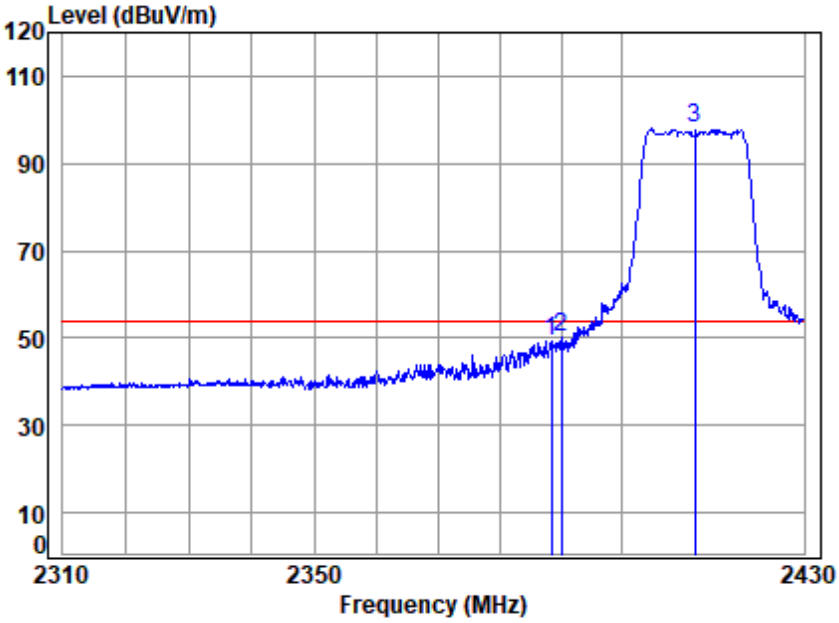
Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	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	2388.3950	5.05	27.15	32.50	49.80	49.50	54.00	-4.50	Average
2	2390.0000	5.05	27.16	32.50	50.48	50.19	54.00	-3.81	Average
3	2412.0000	5.07	27.21	32.50	98.16	97.94	54.00	43.94	Average

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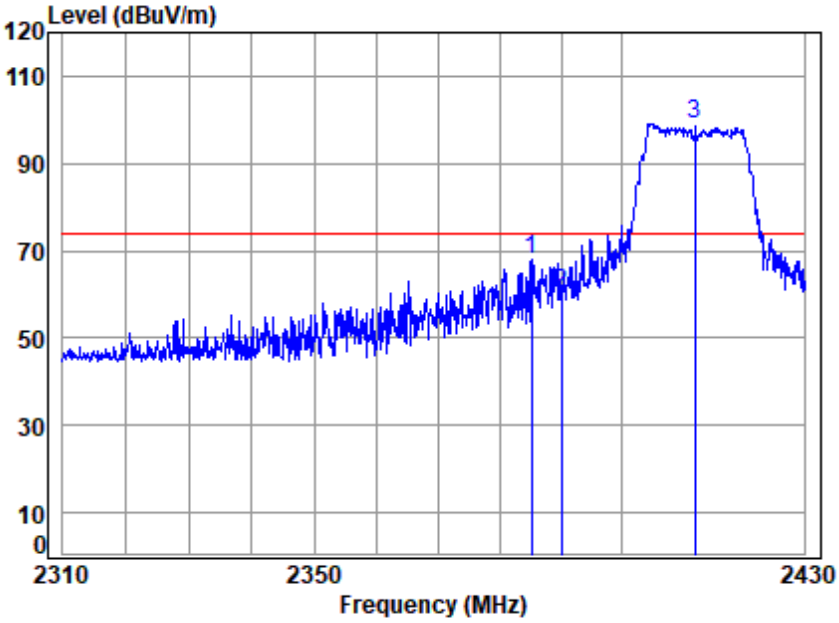
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	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	2385.1320	5.05	27.15	32.50	68.10	67.80	74.00	-6.20	Peak
2	2390.0000	5.05	27.16	32.50	60.32	60.03	74.00	-13.97	Peak
3	2412.0000	5.07	27.21	32.50	99.42	99.20	74.00	25.20	Peak

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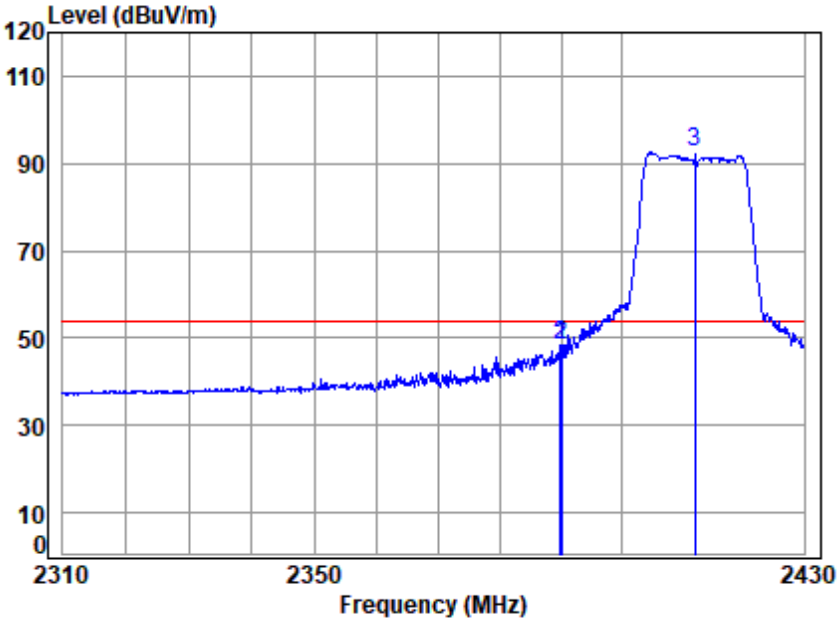
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.8470	5.05	27.16	32.50	48.62	48.33	54.00	-5.67	Average
2	2390.0000	5.05	27.16	32.50	48.52	48.23	54.00	-5.77	Average
3	2412.0000	5.07	27.21	32.50	92.85	92.63	54.00	38.63	Average

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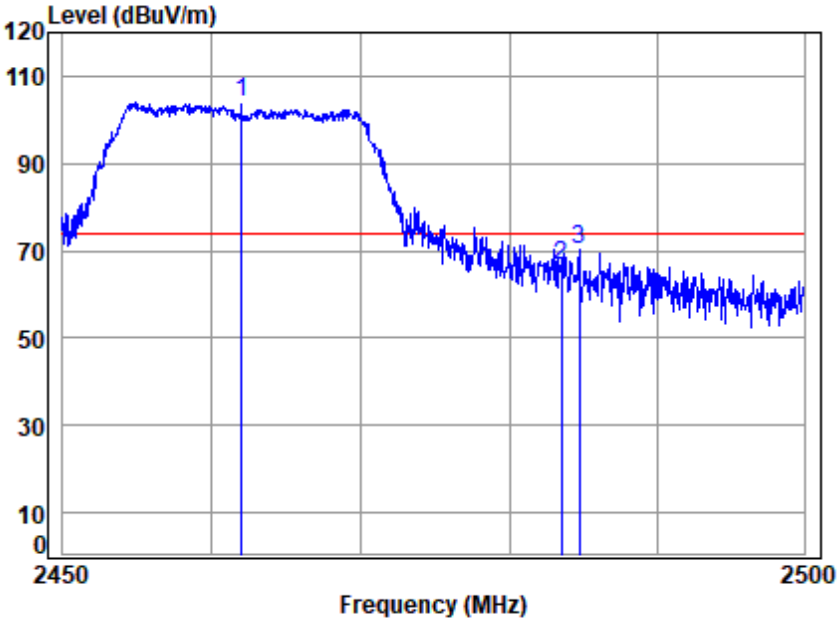
Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

	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	2462.0000	5.10	27.32	32.50	104.13	104.05	74.00	30.05	peak
2	2483.5000	5.12	27.36	32.50	66.55	66.53	74.00	-7.47	peak
3	2484.7430	5.12	27.37	32.50	70.50	70.49	74.00	-3.51	peak

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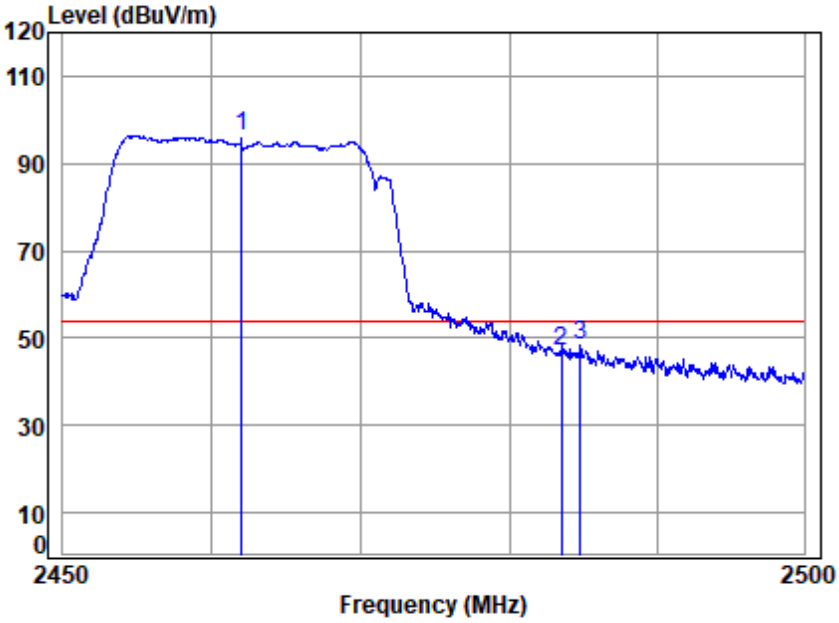
Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

	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	2462.0000	5.10	27.32	32.50	96.34	96.26	54.00	42.26	Average
2	2483.5000	5.12	27.36	32.50	46.95	46.93	54.00	-7.07	Average
3	2484.7930	5.12	27.37	32.50	48.24	48.23	54.00	-5.77	Average

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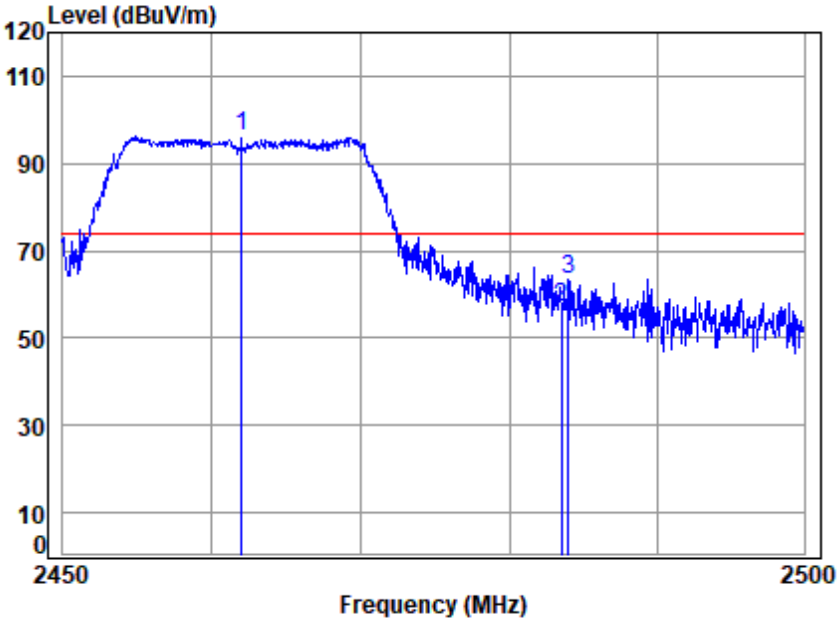
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

	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	2462.0000	5.10	27.32	32.50	96.24	96.16	74.00	22.16	Peak
2	2483.5000	5.12	27.36	32.50	57.05	57.03	74.00	-16.97	Peak
3	2483.9900	5.12	27.37	32.50	63.26	63.25	74.00	-10.75	Peak

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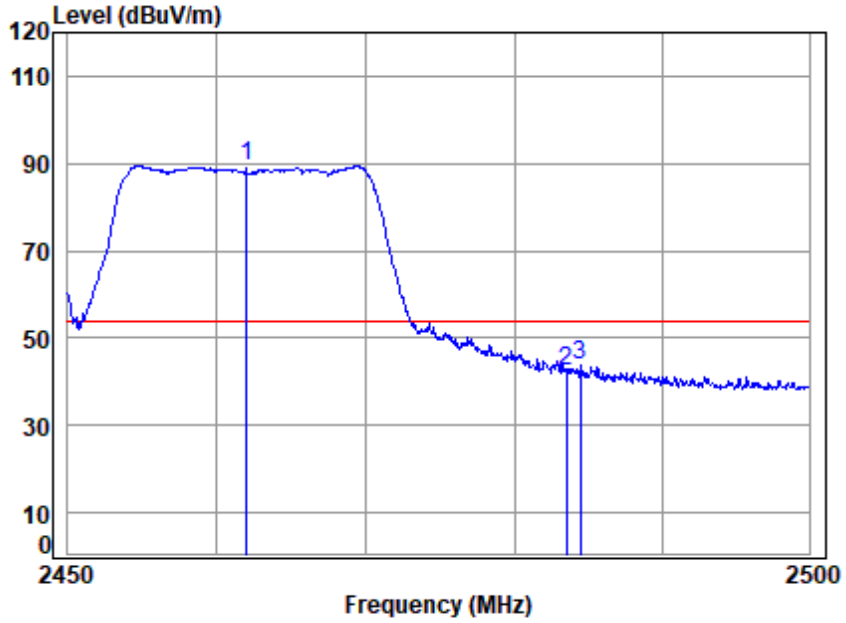
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

	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	2462.0000	5.10	27.32	32.50	89.67	89.59	54.00	35.59	Average
2	2483.5000	5.12	27.36	32.50	42.39	42.37	54.00	-11.63	Average
3	2484.4420	5.12	27.37	32.50	43.60	43.59	54.00	-10.41	Average

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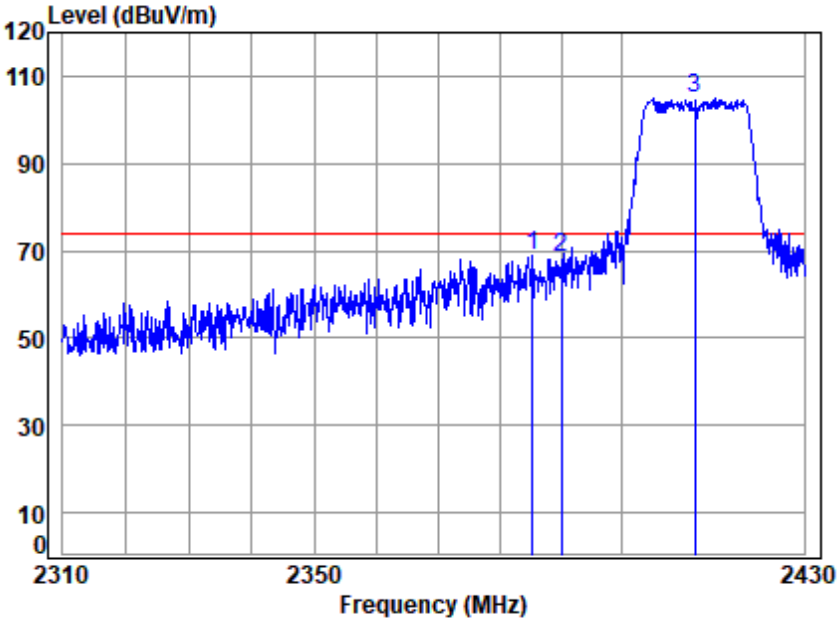
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.3730	5.05	27.15	32.50	69.10	68.80	74.00	-5.20	Peak
2	2390.0000	5.05	27.16	32.50	68.60	68.31	74.00	-5.69	peak
3	2412.0000	5.07	27.21	32.50	105.10	104.88	74.00	30.88	peak

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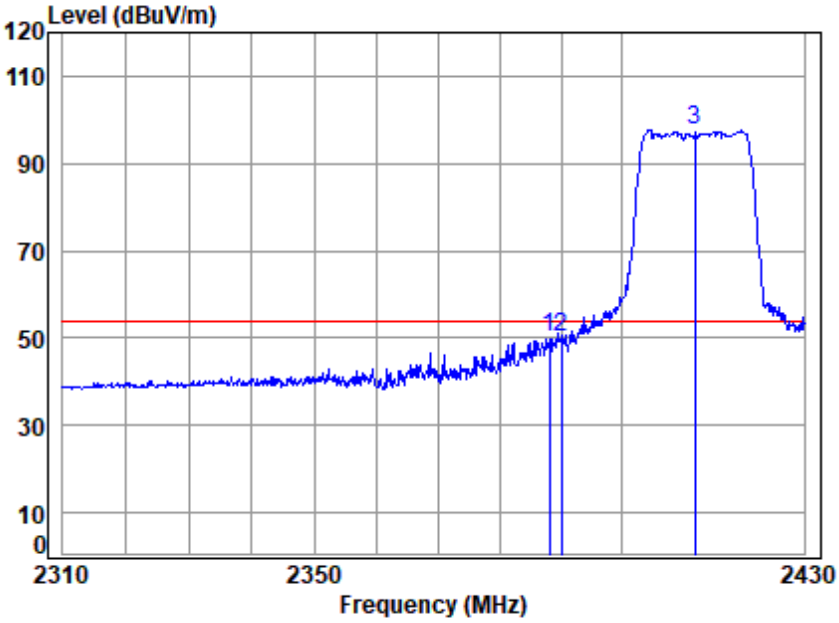
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.1540	5.05	27.15	32.50	50.61	50.31	54.00	-3.69	Average
2	2390.0000	5.05	27.16	32.50	50.46	50.17	54.00	-3.83	Average
3	2412.0000	5.07	27.21	32.50	97.82	97.60	54.00	43.60	Average

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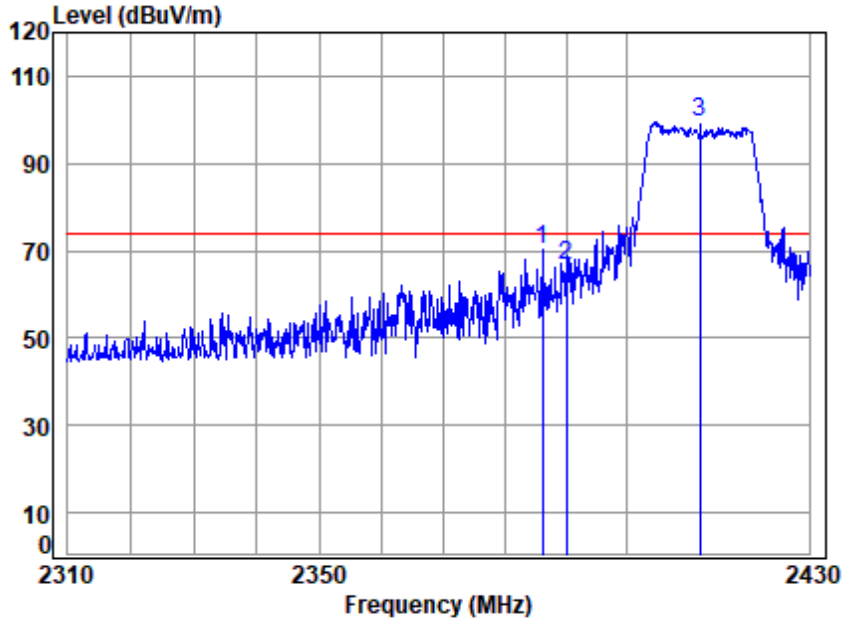
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.0980	5.05	27.15	32.50	70.63	70.33	74.00	-3.67	Peak
2	2390.0000	5.05	27.16	32.50	67.11	66.82	74.00	-7.18	Peak
3	2412.0000	5.07	27.21	32.50	99.48	99.26	74.00	25.26	Peak

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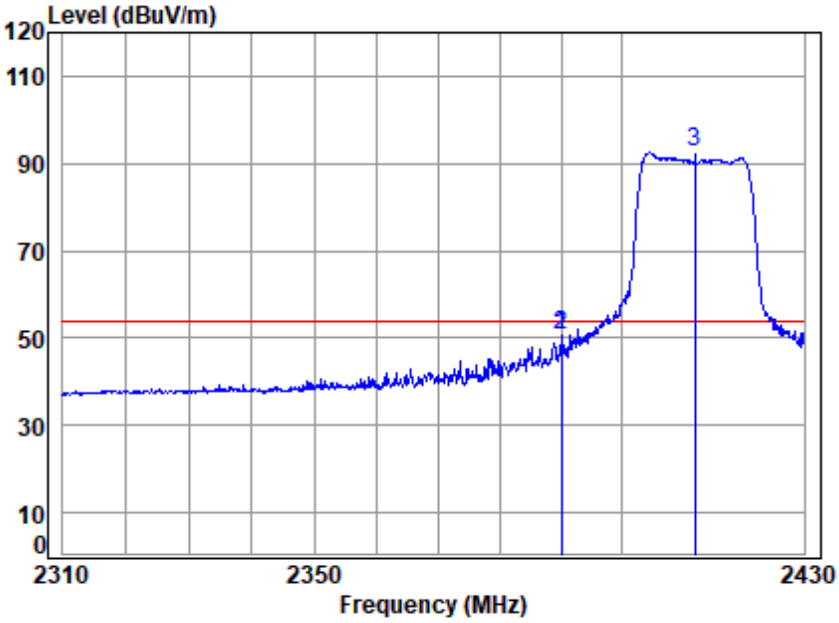
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.9680	5.05	27.16	32.50	51.11	50.82	54.00	-3.18	Average
2	2390.0000	5.05	27.16	32.50	51.11	50.82	54.00	-3.18	Average
3	2412.0000	5.07	27.21	32.50	92.72	92.50	54.00	38.50	Average

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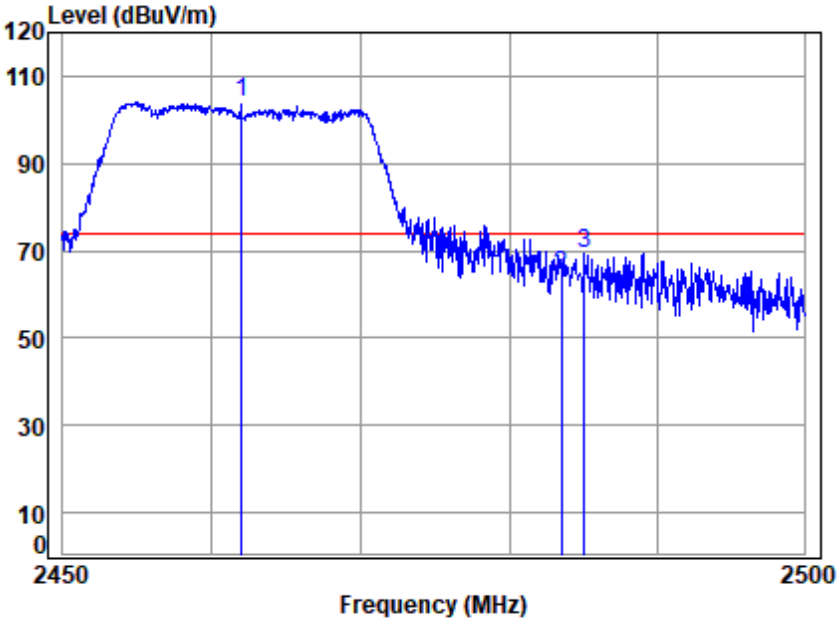
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.0000	5.10	27.32	32.50	104.16	104.08	74.00	30.08	peak
2	2483.5000	5.12	27.36	32.50	64.25	64.23	74.00	-9.77	peak
3	2485.0950	5.12	27.37	32.50	69.48	69.47	74.00	-4.53	peak

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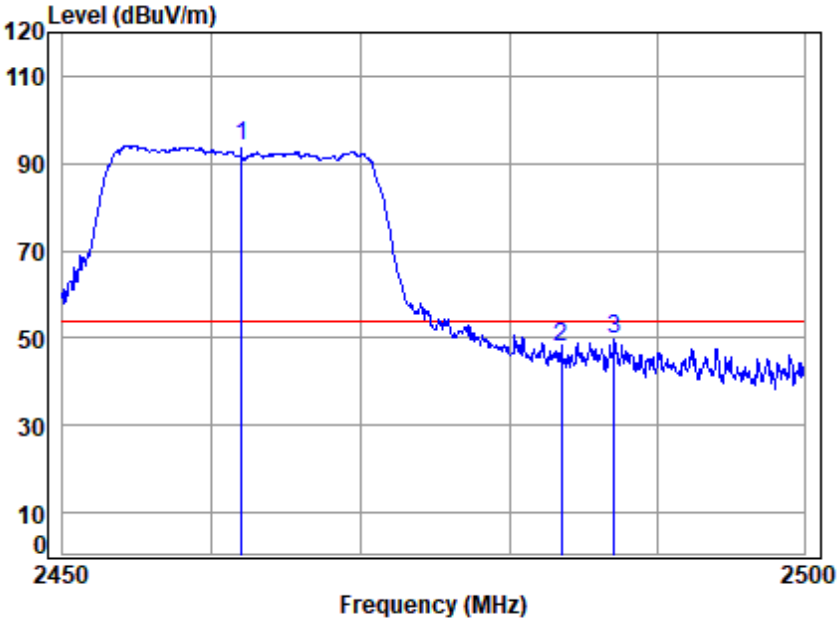
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.0000	5.10	27.32	32.50	94.00	93.92	54.00	39.92	Average
2	2483.5000	5.12	27.36	32.50	48.03	48.01	54.00	-5.99	Average
3	2487.1040	5.12	27.37	32.50	49.76	49.75	54.00	-4.25	Average

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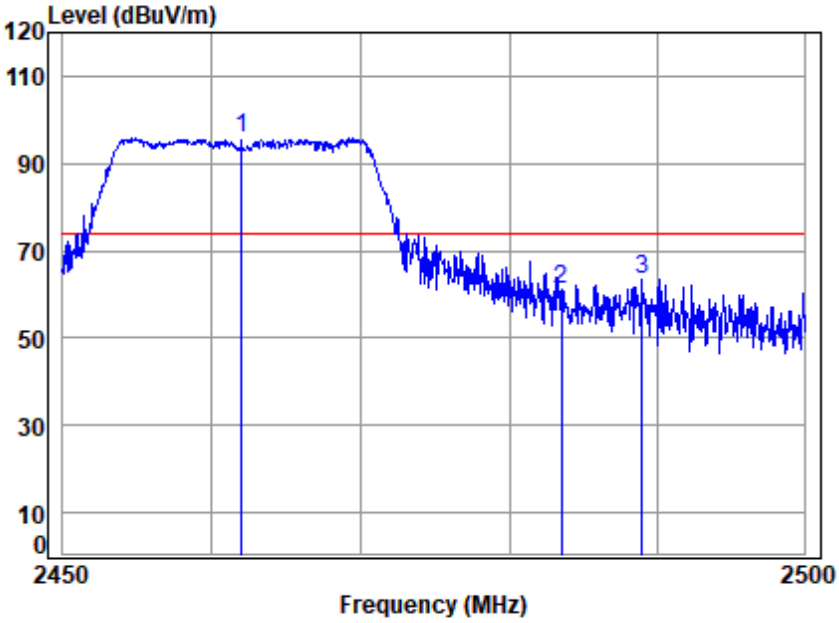
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.0000	5.10	27.32	32.50	95.94	95.86	74.00	21.86	Peak
2	2483.5000	5.12	27.36	32.50	61.12	61.10	74.00	-12.90	Peak
3	2489.0140	5.12	27.38	32.50	63.32	63.32	74.00	-10.68	Peak

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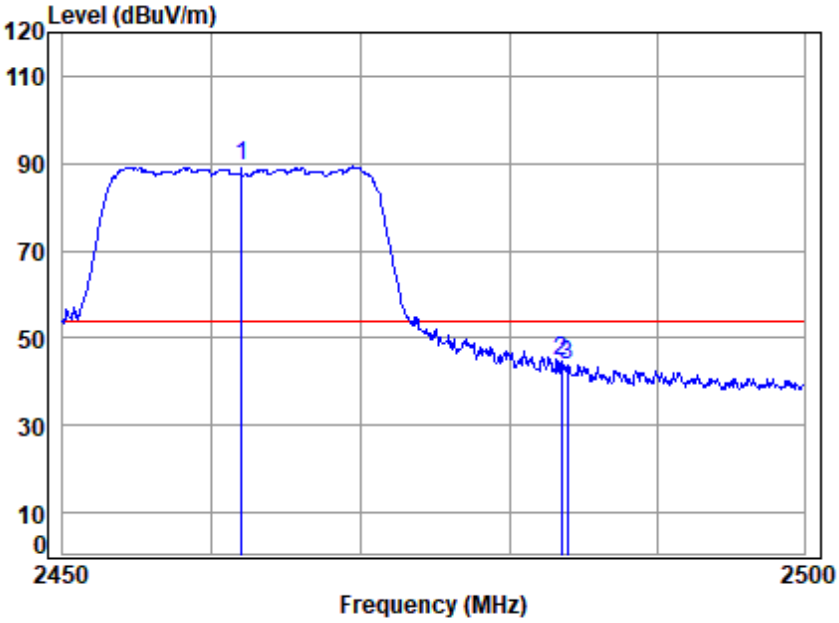
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.0000	5.10	27.32	32.50	89.32	89.24	54.00	35.24	Average
2	2483.5000	5.12	27.36	32.50	44.76	44.74	54.00	-9.26	Average
3	2483.9400	5.12	27.37	32.50	43.77	43.76	54.00	-10.24	Average

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7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance: 3m

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 51.3 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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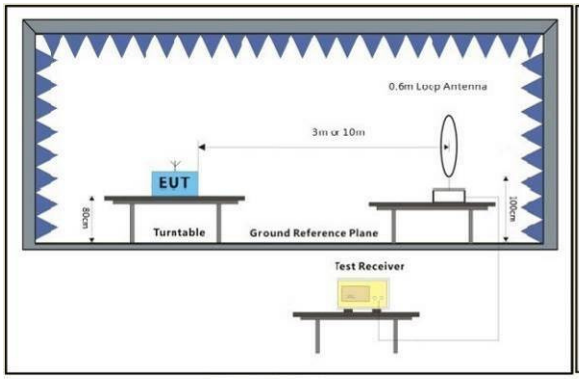
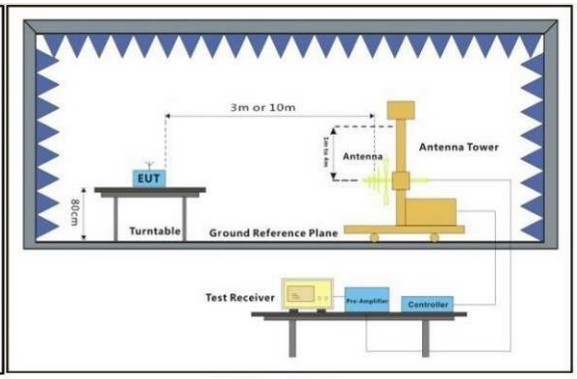
7.7.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

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

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

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

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

Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

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

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

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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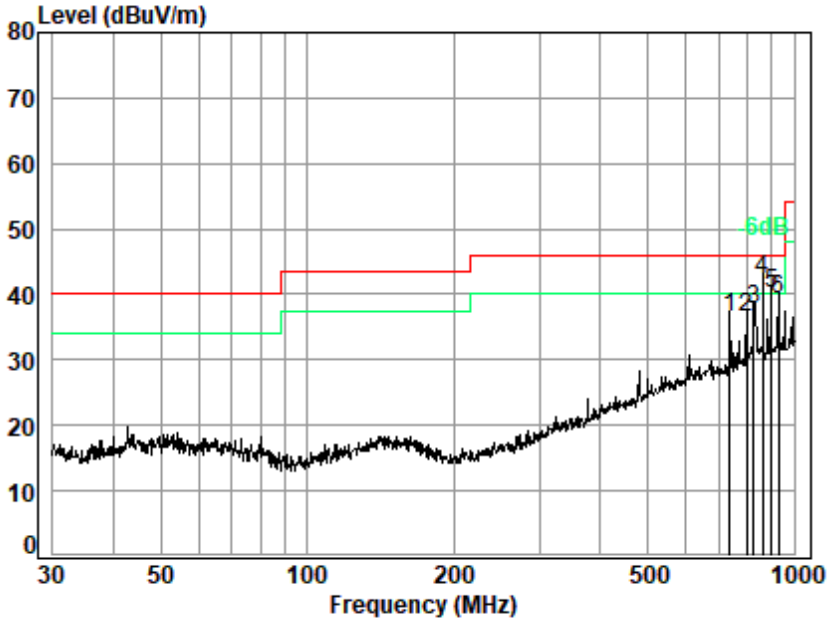
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 01

	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	737.0714	1.84	26.02	25.70	34.34	36.50	46.00	-9.50	QP
2	798.9797	2.65	27.20	25.70	32.35	36.50	46.00	-9.50	QP
3	827.4934	2.83	27.71	25.65	32.92	37.81	46.00	-8.19	QP
4	863.0562	2.78	27.59	25.60	37.57	42.34	46.00	-3.66	QP
5	896.9965	2.32	28.26	25.55	34.99	40.02	46.00	-5.98	QP
6	929.0082	2.16	29.06	25.50	33.57	39.29	46.00	-6.71	QP

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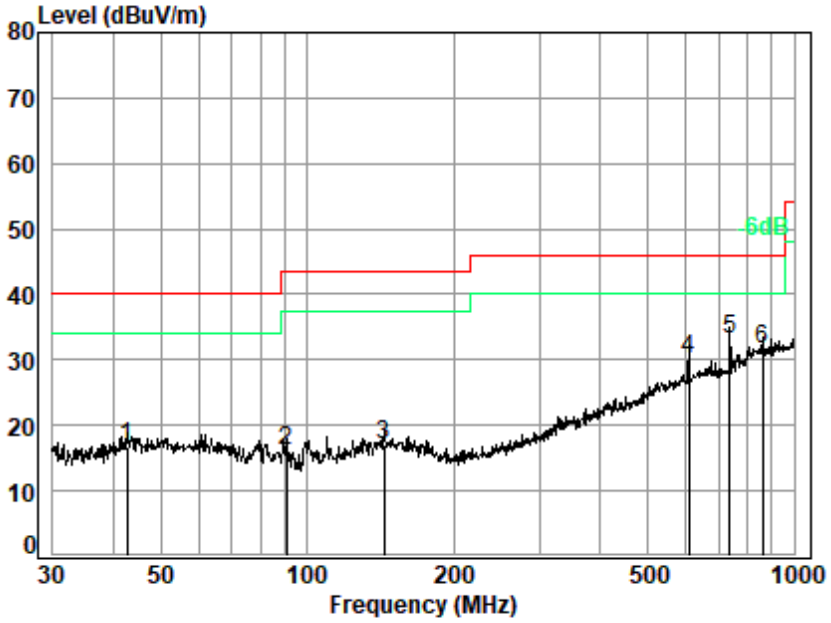
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 01

	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	42.6000	0.21	17.20	24.93	24.23	16.71	40.00	-23.29	QP
2	90.5374	0.68	13.67	25.19	26.92	16.08	43.50	-27.42	QP
3	143.8295	0.89	17.44	25.53	24.27	17.07	43.50	-26.43	QP
4	607.7867	2.12	24.48	25.70	29.22	30.12	46.00	-15.88	QP
5	737.0714	1.84	26.02	25.70	30.95	33.11	46.00	-12.89	QP
6	863.0562	2.78	27.59	25.60	26.77	31.54	46.00	-14.46	QP

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7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.6
Measurement Distance: 3m

Limit:

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

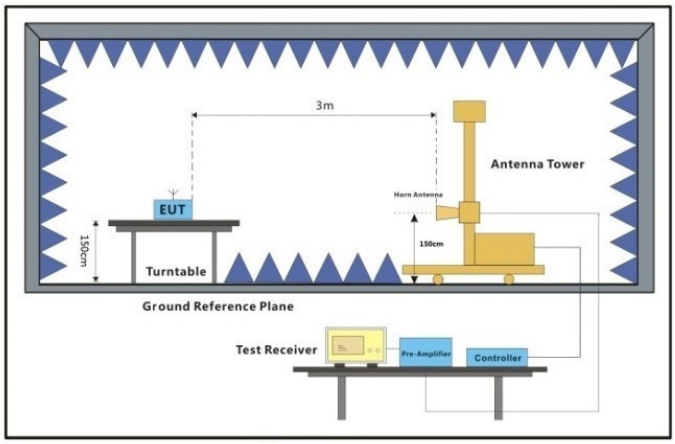
7.8.1 E.U.T. Operation

Operating Environment:
Temperature: 22.2 °C Humidity: 54.6 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



Above 1GHz

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7.8.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

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

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

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

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

Remark:

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

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

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

3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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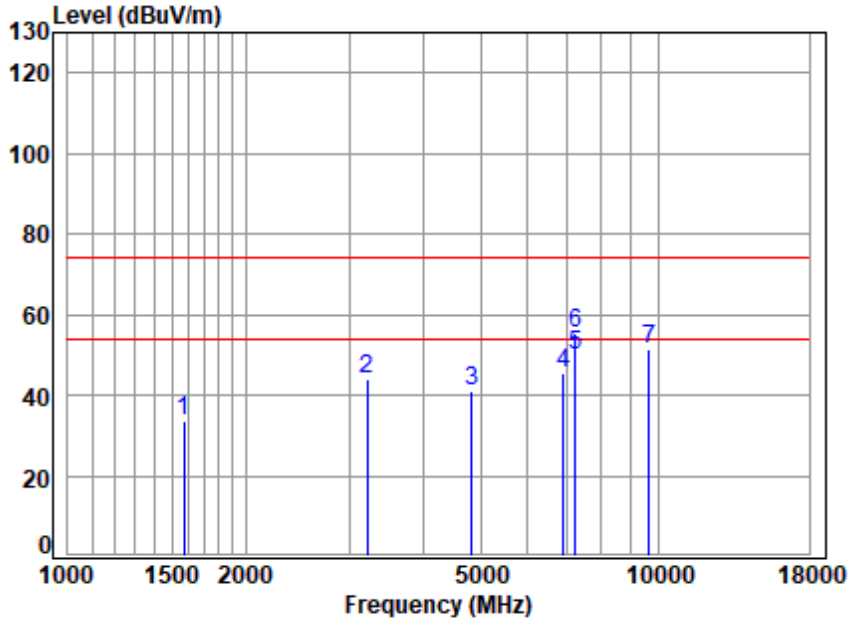
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.2650	3.93	24.73	52.89	57.85	33.62	74.00	-40.38	peak
2	3214.6230	6.29	28.64	53.03	62.15	44.05	74.00	-29.95	peak
3	4824.0000	8.02	30.99	53.05	54.93	40.89	74.00	-33.11	peak
4	6914.7630	8.11	35.60	53.44	55.43	45.70	74.00	-28.30	peak
5	7236.0000	8.31	36.09	53.52	58.84	49.72	54.00	-4.28	Average
6	7236.0000	8.31	36.09	53.52	64.63	55.51	74.00	-18.49	peak
7	9648.0000	11.38	37.62	53.54	56.07	51.53	74.00	-22.47	peak

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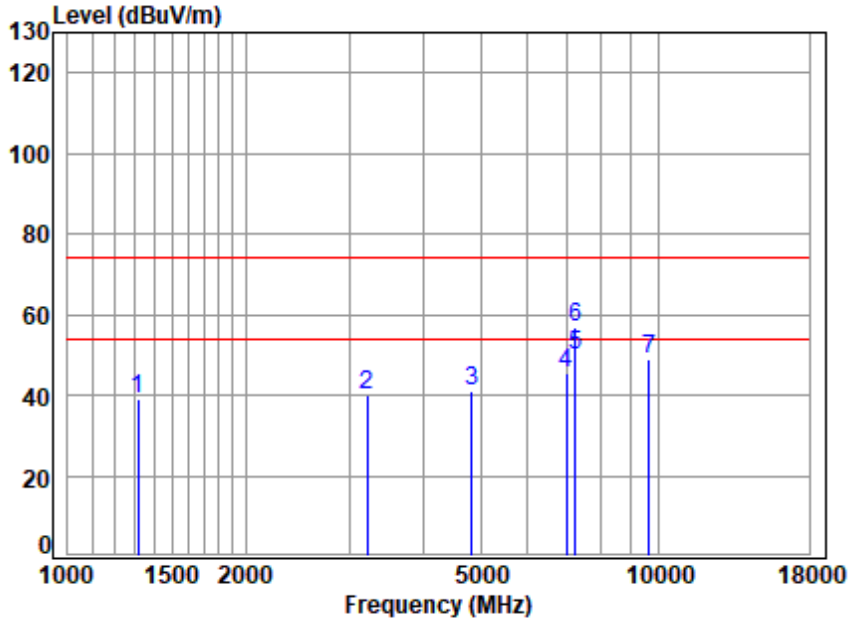
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.9850	3.41	24.24	52.74	64.14	39.05	74.00	-34.95	peak
2	3214.6230	6.29	28.64	53.03	58.28	40.18	74.00	-33.82	peak
3	4824.0000	8.02	30.99	53.05	54.88	40.84	74.00	-33.16	peak
4	6974.9820	8.17	35.74	53.48	54.95	45.38	74.00	-28.62	peak
5	7236.0000	8.31	36.09	53.52	58.95	49.83	54.00	-4.17	Average
6	7236.0000	8.31	36.09	53.52	66.10	56.98	74.00	-17.02	peak
7	9648.0000	11.38	37.62	53.54	53.40	48.86	74.00	-25.14	peak

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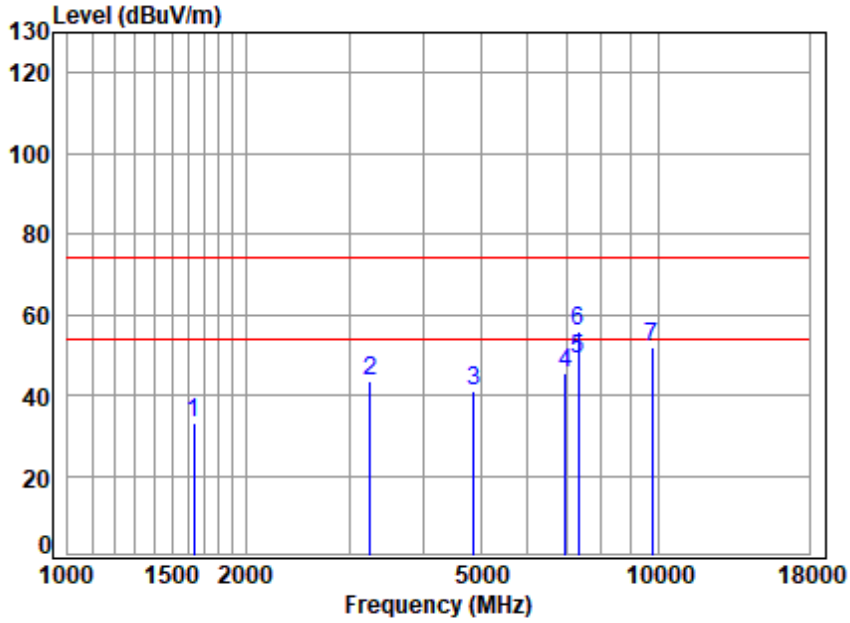
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.5430	4.06	24.87	52.93	57.13	33.13	74.00	-40.87	peak
2	3252.0050	6.38	28.65	53.02	61.69	43.70	74.00	-30.30	peak
3	4874.0000	8.10	31.11	53.07	54.97	41.11	74.00	-32.89	peak
4	6954.8520	8.15	35.70	53.47	54.93	45.31	74.00	-28.69	peak
5	7311.0000	8.34	36.18	53.53	57.82	48.81	54.00	-5.19	Average
6	7311.0000	8.34	36.18	53.53	64.89	55.88	74.00	-18.12	peak
7	9748.0000	11.30	37.84	53.44	56.23	51.93	74.00	-22.07	peak

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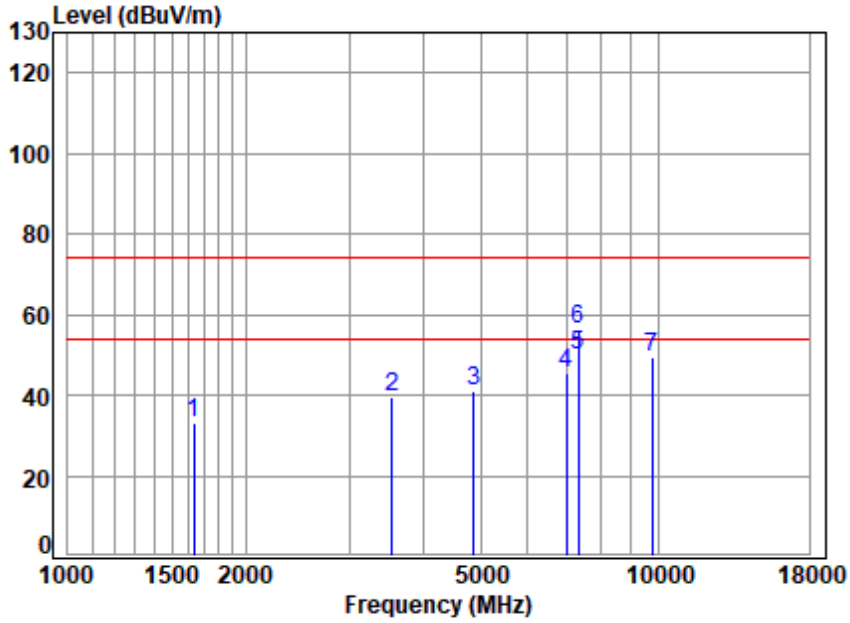
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.5430	4.06	24.87	52.93	57.29	33.29	74.00	-40.71	peak
2	3546.5770	7.04	28.78	52.93	56.89	39.78	74.00	-34.22	peak
3	4874.0000	8.10	31.11	53.07	54.91	41.05	74.00	-32.95	peak
4	6974.9820	8.17	35.74	53.48	55.09	45.52	74.00	-28.48	peak
5	7311.0000	8.34	36.18	53.53	58.96	49.95	54.00	-4.05	Average
6	7311.0000	8.34	36.18	53.53	65.60	56.59	74.00	-17.41	peak
7	9748.0000	11.30	37.84	53.44	53.71	49.41	74.00	-24.59	peak

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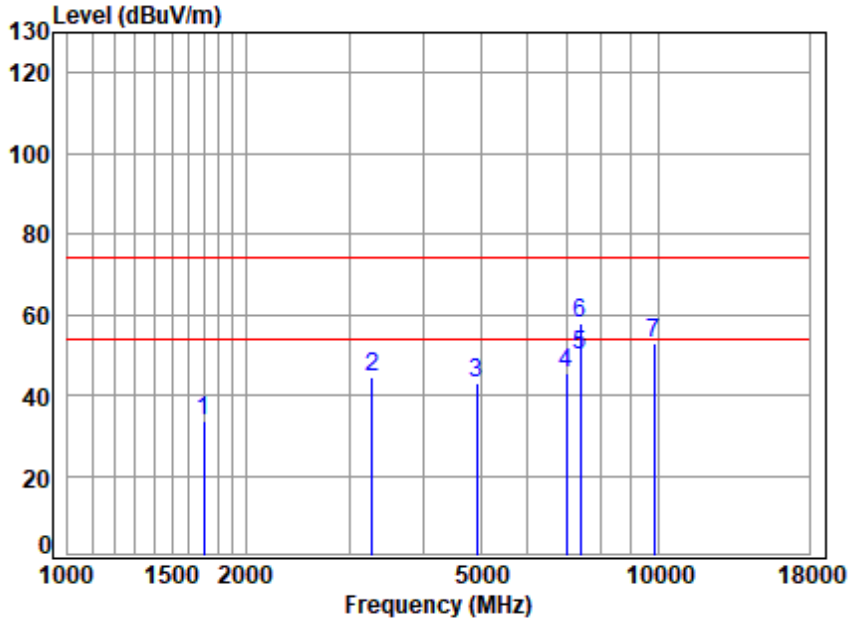
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.1290	4.19	25.00	52.96	57.15	33.38	74.00	-40.62	peak
2	3280.3260	6.46	28.66	53.01	62.40	44.51	74.00	-29.49	peak
3	4924.0000	8.18	31.23	53.08	56.79	43.12	74.00	-30.88	peak
4	6974.9820	8.17	35.74	53.48	54.88	45.31	74.00	-28.69	peak
5	7386.0000	8.38	36.27	53.54	58.96	50.07	54.00	-3.93	Average
6	7386.0000	8.38	36.27	53.54	66.52	57.63	74.00	-16.37	peak
7	9848.0000	11.23	38.07	53.35	56.97	52.92	74.00	-21.08	peak

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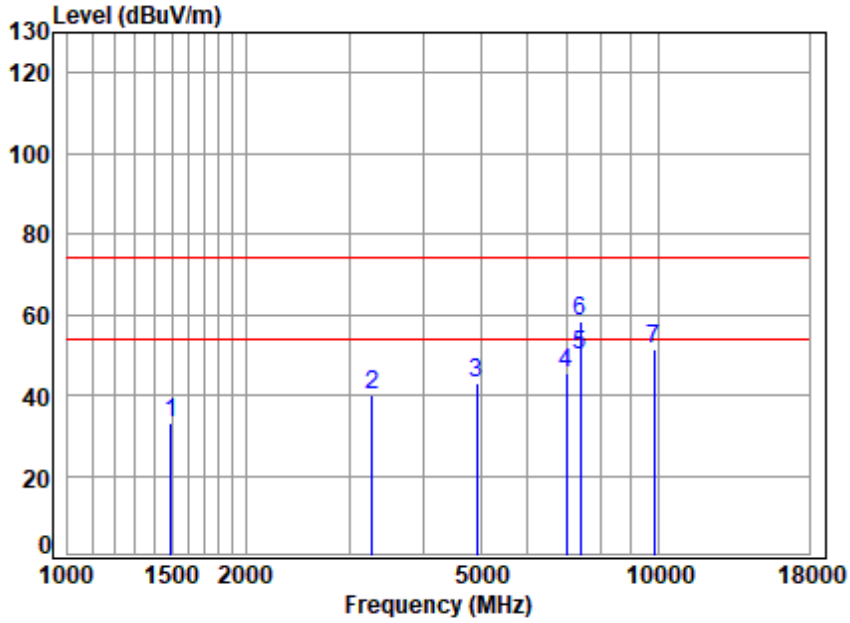
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.4550	3.76	24.49	52.85	57.73	33.13	74.00	-40.87	peak
2	3280.3260	6.46	28.66	53.01	57.87	39.98	74.00	-34.02	peak
3	4924.0000	8.18	31.23	53.08	56.45	42.78	74.00	-31.22	peak
4	6974.9820	8.17	35.74	53.48	55.21	45.64	74.00	-28.36	peak
5	7386.0000	8.38	36.27	53.54	58.98	50.09	54.00	-3.91	Average
6	7386.0000	8.38	36.27	53.54	67.41	58.52	74.00	-15.48	peak
7	9848.0000	11.23	38.07	53.35	55.70	51.65	74.00	-22.35	peak

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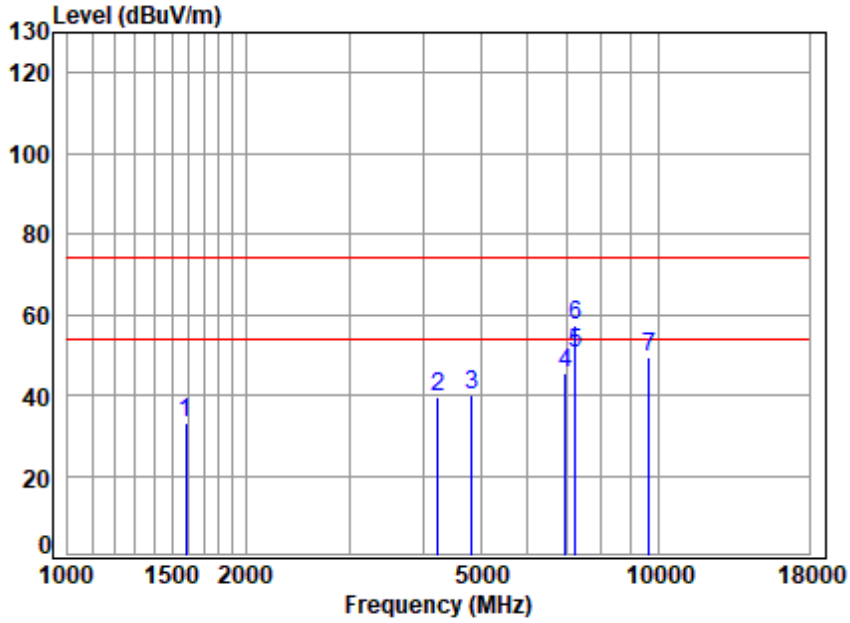
Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

	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	1583.3920	3.95	24.75	52.90	57.53	33.33	74.00	-40.67	peak
2	4230.3960	7.48	29.83	52.88	54.95	39.38	74.00	-34.62	peak
3	4824.0000	8.02	30.99	53.05	53.83	39.79	74.00	-34.21	peak
4	6954.8520	8.15	35.70	53.47	55.01	45.39	74.00	-28.61	peak
5	7236.0000	8.31	36.09	53.52	59.72	50.60	54.00	-3.40	Average
6	7236.0000	8.31	36.09	53.52	66.23	57.11	74.00	-16.89	peak
7	9648.0000	11.38	37.62	53.54	53.77	49.23	74.00	-24.77	peak

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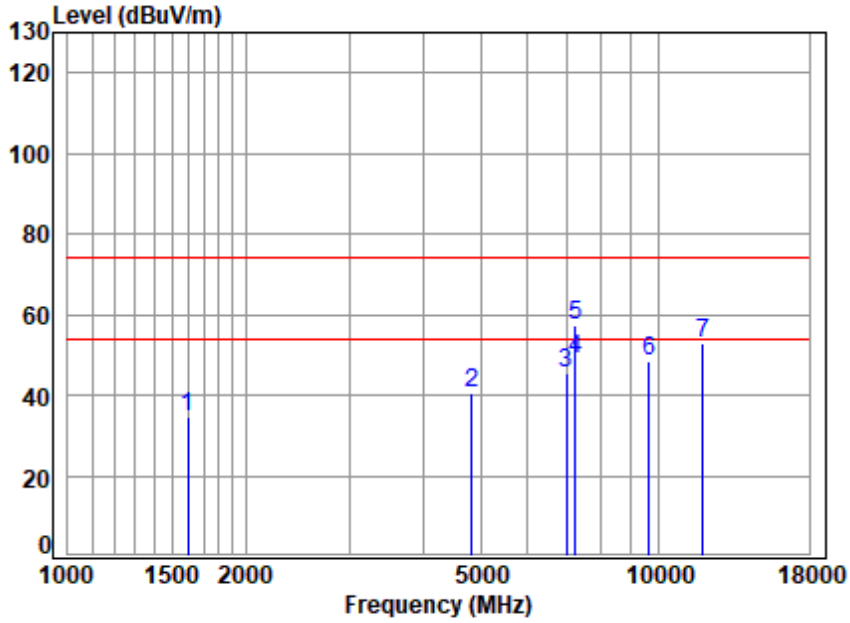
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

	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	1597.1810	3.98	24.79	52.91	58.60	34.46	74.00	-39.54	peak
2	4824.0000	8.02	30.99	53.05	54.72	40.68	74.00	-33.32	peak
3	6995.1720	8.19	35.79	53.50	55.18	45.66	74.00	-28.34	peak
4	7236.0000	8.31	36.09	53.52	57.98	48.86	54.00	-5.14	Average
5	7236.0000	8.31	36.09	53.52	66.44	57.32	74.00	-16.68	peak
6	9648.0000	11.38	37.62	53.54	52.92	48.38	74.00	-25.62	peak
7	11906.070	11.60	39.78	53.96	55.36	52.78	74.00	-21.22	Peak

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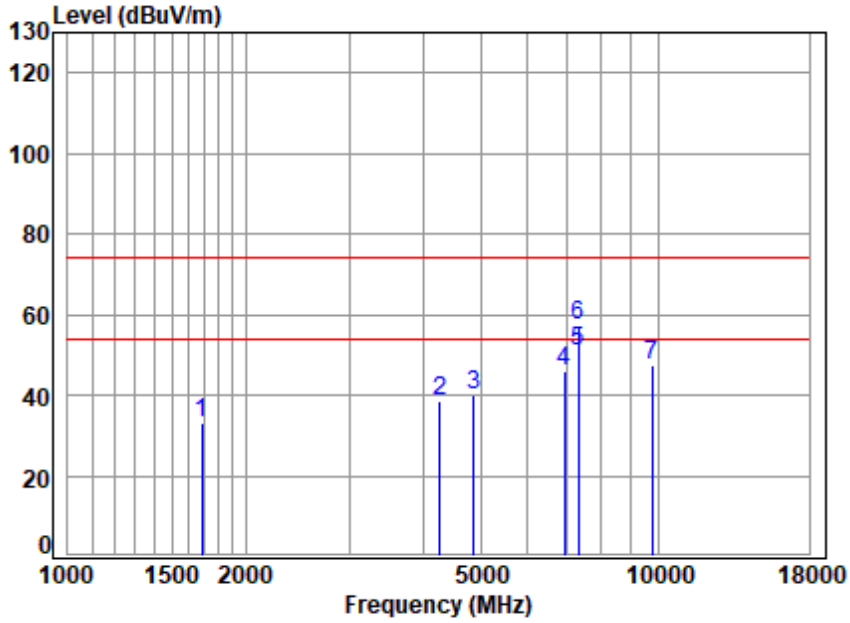
Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

	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	1687.3470	4.17	24.98	52.95	56.97	33.17	74.00	-40.83	peak
2	4267.2370	7.48	29.88	52.89	54.25	38.72	74.00	-35.28	peak
3	4874.0000	8.10	31.11	53.07	53.71	39.85	74.00	-34.15	peak
4	6934.7780	8.13	35.65	53.46	55.46	45.78	74.00	-28.22	peak
5	7311.0000	8.34	36.18	53.53	59.90	50.89	54.00	-3.11	Average
6	7311.0000	8.34	36.18	53.53	66.32	57.31	74.00	-16.69	peak
7	9748.0000	11.30	37.84	53.44	51.88	47.58	74.00	-26.42	peak

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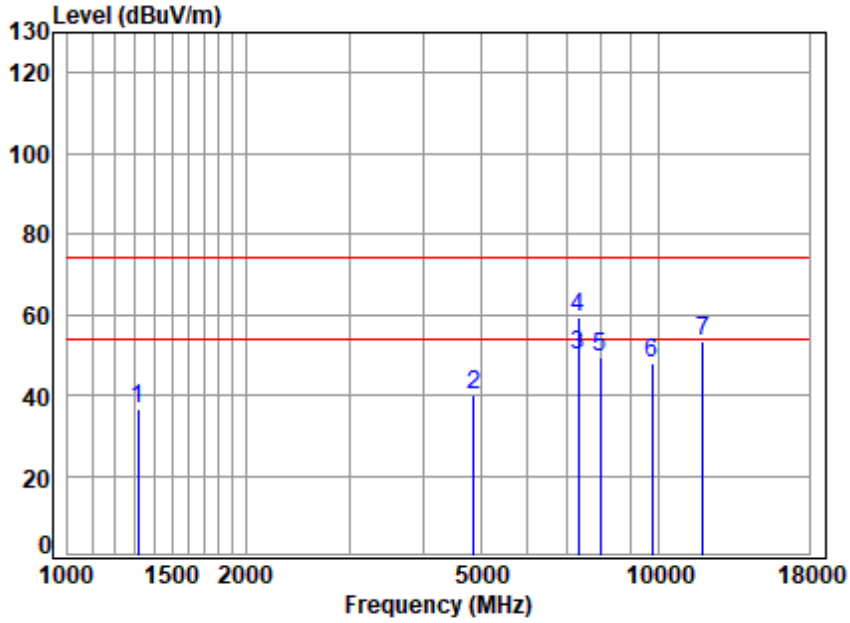
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

	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	1315.9850	3.41	24.24	52.74	61.54	36.45	74.00	-37.55	peak
2	4874.0000	8.10	31.11	53.07	53.81	39.95	74.00	-34.05	peak
3	7311.0000	8.34	36.18	53.53	58.85	49.84	54.00	-4.16	Average
4	7311.0000	8.34	36.18	53.53	68.16	59.15	74.00	-14.85	peak
5	7989.8930	9.41	36.20	53.60	57.59	49.60	74.00	-24.40	Peak
6	9748.0000	11.30	37.84	53.44	52.01	47.71	74.00	-26.29	peak
7	11906.070	11.60	39.78	53.96	56.04	53.46	74.00	-20.54	Peak

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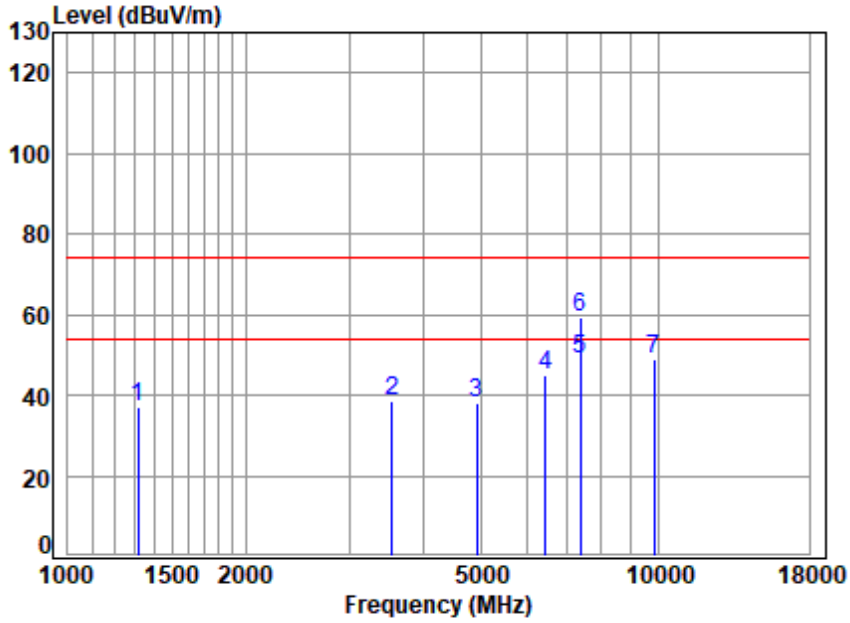
Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

	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	1315.9850	3.41	24.24	52.74	62.08	36.99	74.00	-37.01	peak
2	3536.3410	7.03	28.76	52.93	55.91	38.77	74.00	-35.23	peak
3	4924.0000	8.18	31.23	53.08	51.50	37.83	74.00	-36.17	peak
4	6432.7320	7.69	34.31	53.12	55.85	44.73	74.00	-29.27	peak
5	7386.0000	8.38	36.27	53.54	57.96	49.07	54.00	-4.93	Average
6	7386.0000	8.38	36.27	53.54	68.42	59.53	74.00	-14.47	peak
7	9848.0000	11.23	38.07	53.35	53.16	49.11	74.00	-24.89	peak

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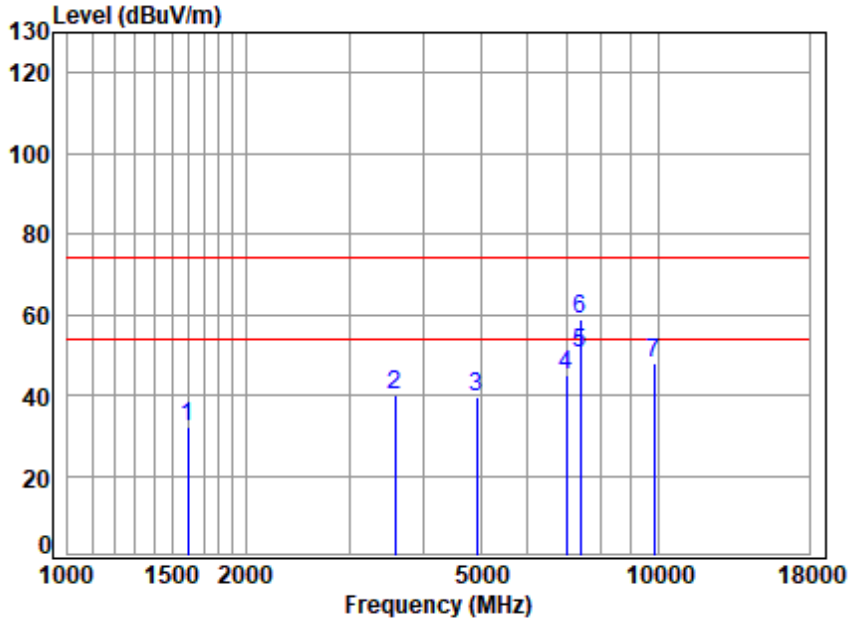
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

	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	1597.1810	3.98	24.79	52.91	56.39	32.25	74.00	-41.75	peak
2	3587.8180	7.08	28.85	52.91	57.06	40.08	74.00	-33.92	peak
3	4924.0000	8.18	31.23	53.08	53.18	39.51	74.00	-34.49	peak
4	6974.9820	8.17	35.74	53.48	54.70	45.13	74.00	-28.87	peak
5	7386.0000	8.38	36.27	53.54	59.43	50.54	54.00	-3.46	Average
6	7386.0000	8.38	36.27	53.54	67.56	58.67	74.00	-15.33	peak
7	9848.0000	11.23	38.07	53.35	52.18	48.13	74.00	-25.87	peak

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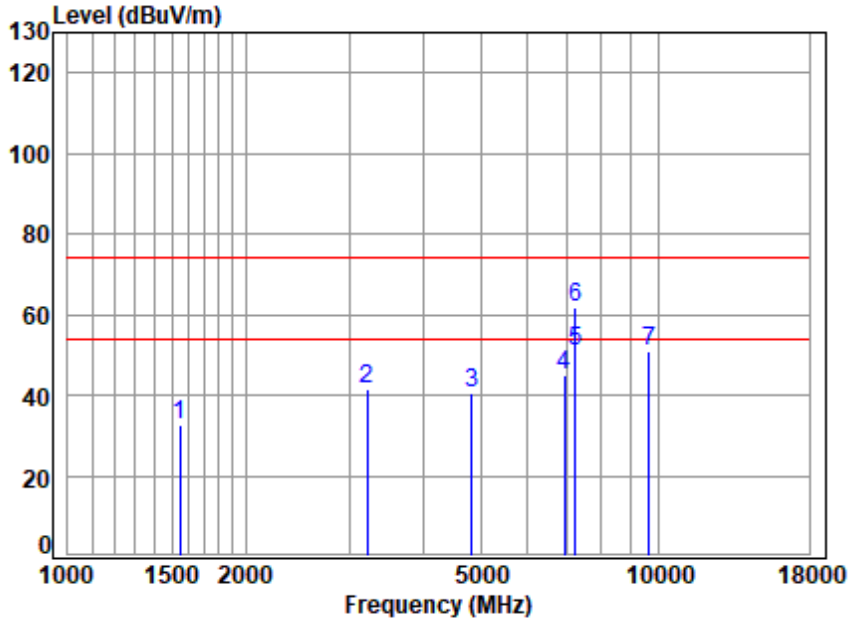
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.1990	3.88	24.65	52.88	57.18	32.83	74.00	-41.17	peak
2	3214.6230	6.29	28.64	53.03	59.76	41.66	74.00	-32.34	Peak
3	4824.0000	8.02	30.99	53.05	54.78	40.74	74.00	-33.26	peak
4	6934.7780	8.13	35.65	53.46	54.61	44.93	74.00	-29.07	peak
5	7236.0000	8.31	36.09	53.52	59.84	50.72	54.00	-3.28	Average
6	7236.0000	8.31	36.09	53.52	70.68	61.56	74.00	-12.44	peak
7	9648.0000	11.38	37.62	53.54	55.35	50.81	74.00	-23.19	peak

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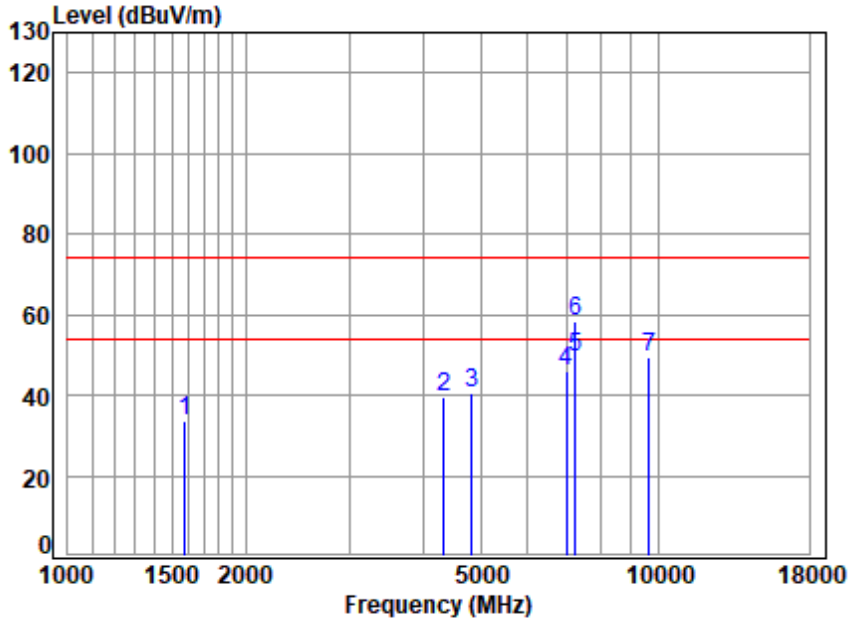
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.8220	3.94	24.74	52.90	57.89	33.67	74.00	-40.33	peak
2	4341.8860	7.48	29.99	52.91	55.08	39.64	74.00	-34.36	peak
3	4824.0000	8.02	30.99	53.05	54.78	40.74	74.00	-33.26	peak
4	6974.9820	8.17	35.74	53.48	55.37	45.80	74.00	-28.20	peak
5	7236.0000	8.31	36.09	53.52	58.45	49.33	54.00	-4.67	Average
6	7236.0000	8.31	36.09	53.52	67.28	58.16	74.00	-15.84	peak
7	9648.0000	11.38	37.62	53.54	53.75	49.21	74.00	-24.79	peak

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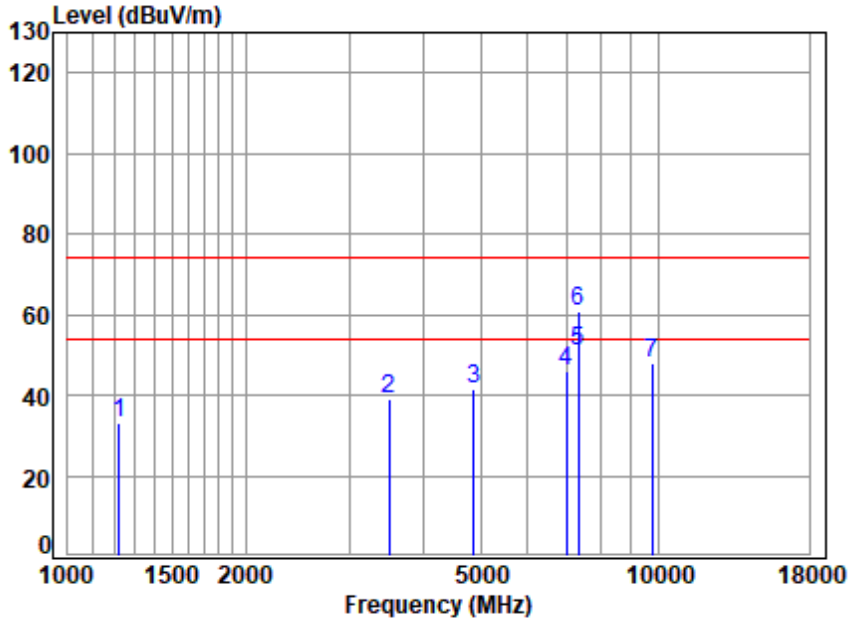
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.2470	3.20	24.29	52.68	58.27	33.08	74.00	-40.92	peak
2	3495.6910	6.98	28.70	52.94	56.38	39.12	74.00	-34.88	peak
3	4874.0000	8.10	31.11	53.07	55.53	41.67	74.00	-32.33	peak
4	6995.1720	8.19	35.79	53.50	55.43	45.91	74.00	-28.09	peak
5	7311.0000	8.34	36.18	53.53	59.92	50.91	54.00	-3.09	Average
6	7311.0000	8.34	36.18	53.53	69.63	60.62	74.00	-13.38	peak
7	9748.0000	11.30	37.84	53.44	52.13	47.83	74.00	-26.17	peak

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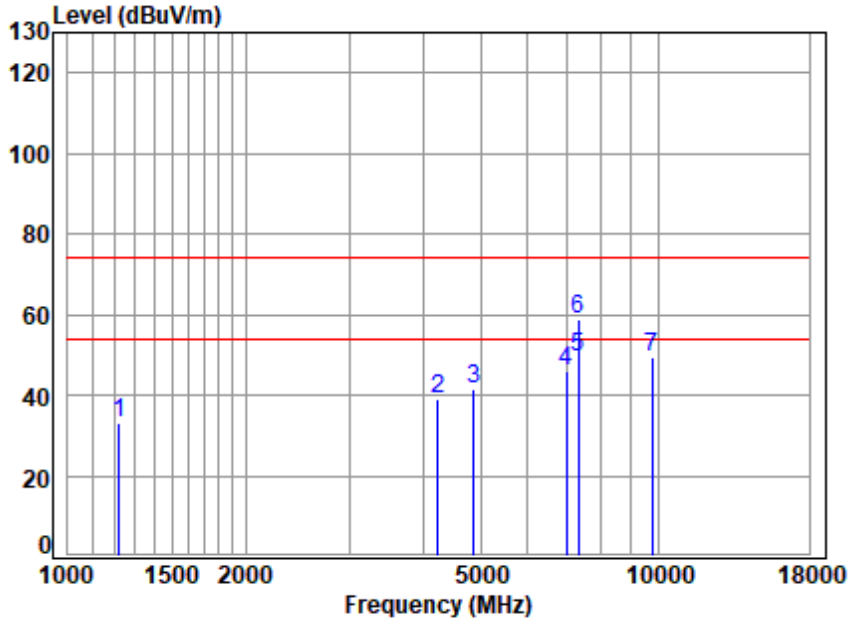
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.2470	3.20	24.29	52.68	58.27	33.08	74.00	-40.92	peak
2	4230.3960	7.48	29.83	52.88	54.73	39.16	74.00	-34.84	peak
3	4874.0000	8.10	31.11	53.07	55.53	41.67	74.00	-32.33	peak
4	6995.1720	8.19	35.79	53.50	55.43	45.91	74.00	-28.09	peak
5	7311.0000	8.34	36.18	53.53	58.42	49.41	54.00	-4.59	Average
6	7311.0000	8.34	36.18	53.53	67.66	58.65	74.00	-15.35	peak
7	9748.0000	11.30	37.84	53.44	53.63	49.33	74.00	-24.67	peak

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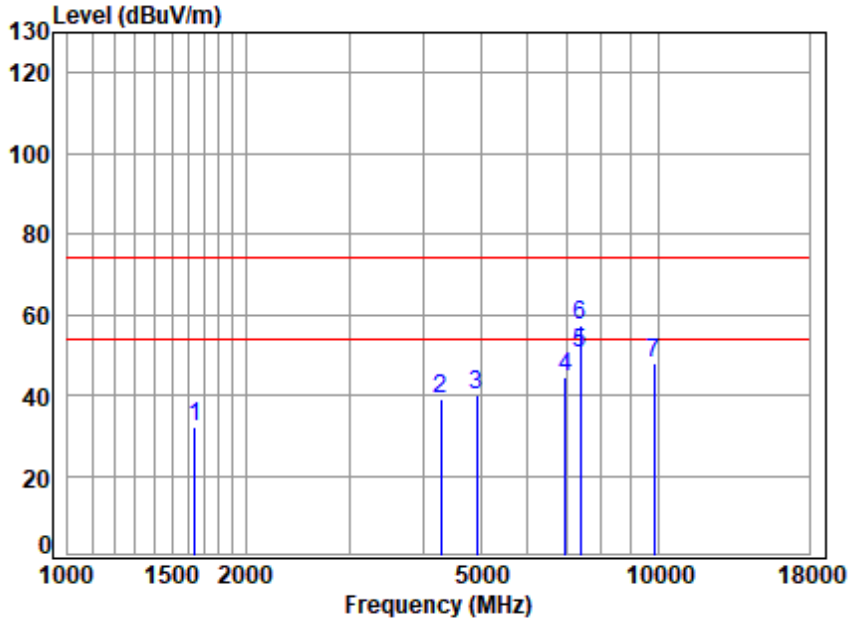
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00291AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.0190	4.08	24.89	52.93	56.22	32.26	74.00	-41.74	peak
2	4291.9770	7.48	29.92	52.89	54.58	39.09	74.00	-34.91	peak
3	4924.0000	8.18	31.23	53.08	53.49	39.82	74.00	-34.18	peak
4	6954.8520	8.15	35.70	53.47	54.05	44.43	74.00	-29.57	peak
5	7386.0000	8.38	36.27	53.54	59.52	50.63	54.00	-3.37	Average
6	7386.0000	8.38	36.27	53.54	66.26	57.37	74.00	-16.63	peak
7	9848.0000	11.23	38.07	53.35	52.16	48.11	74.00	-25.89	peak

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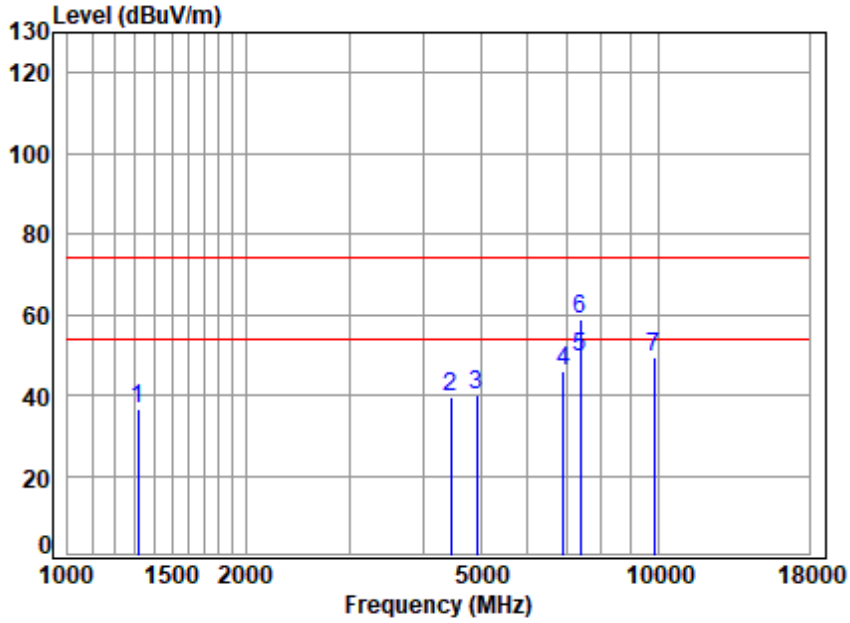
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00291AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.9850	3.41	24.24	52.74	61.91	36.82	74.00	-37.18	peak
2	4456.3150	7.47	30.14	52.95	54.66	39.32	74.00	-34.68	peak
3	4924.0000	8.18	31.23	53.08	53.59	39.92	74.00	-34.08	peak
4	6894.8060	8.09	35.55	53.43	55.65	45.86	74.00	-28.14	peak
5	7386.0000	8.38	36.27	53.54	58.45	49.56	54.00	-4.44	Average
6	7386.0000	8.38	36.27	53.54	67.61	58.72	74.00	-15.28	peak
7	9848.0000	11.23	38.07	53.35	53.35	49.30	74.00	-24.70	peak

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2208000291AT.

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2208000291AT.

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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	1.228	2.024	60.67	2.17	1.42
		2437	1.227	2.018	60.80	2.16	1.10
		2462	1.228	2.010	61.09	2.14	0.86
802.11g	SISO	2412	0.544	1.020	53.33	2.73	1.95
		2437	0.544	1.405	38.72	4.12	51.12
		2462	0.544	3.423	15.89	7.99	73.91
802.11n (HT20)	SISO	2412	0.549	1.025	53.56	2.71	1.93
		2437	0.553	1.015	54.48	2.64	43.44
		2462	0.548	1.850	29.62	5.28	62.97

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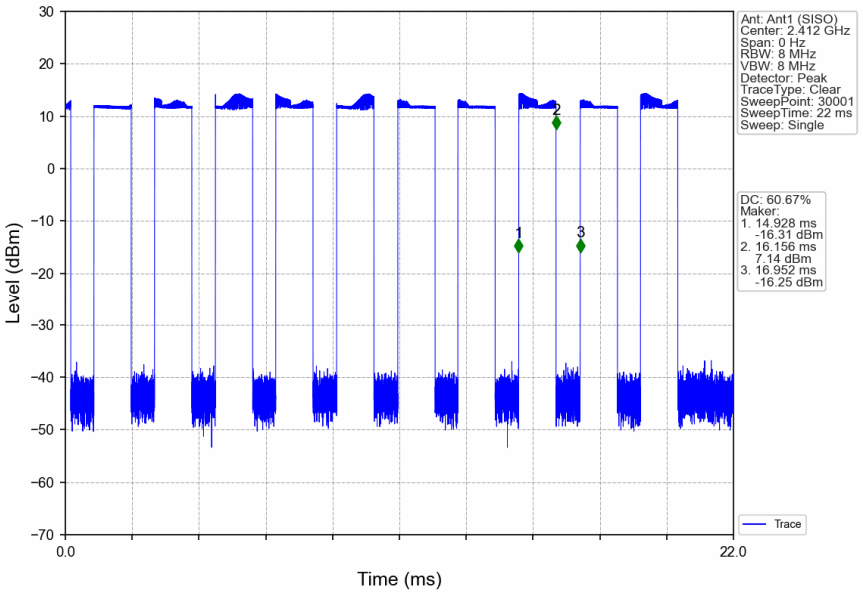
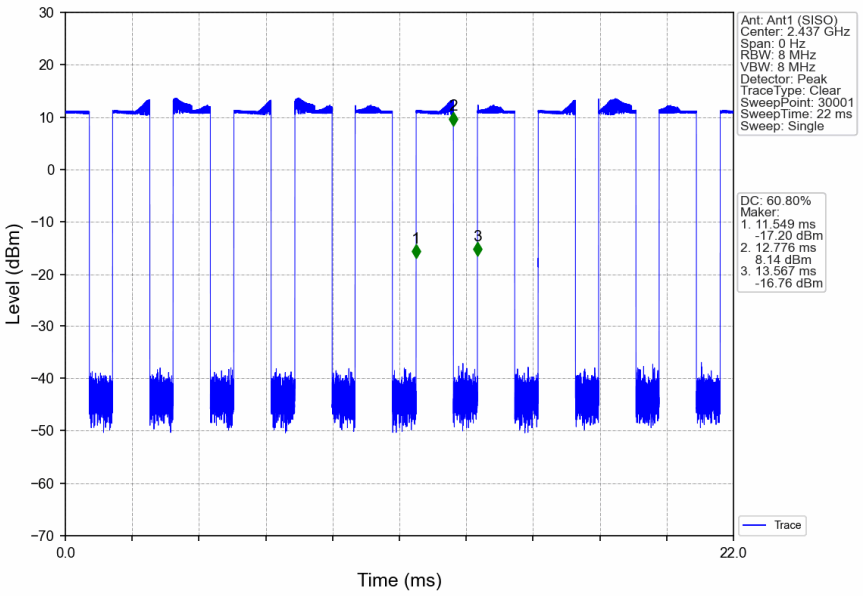
1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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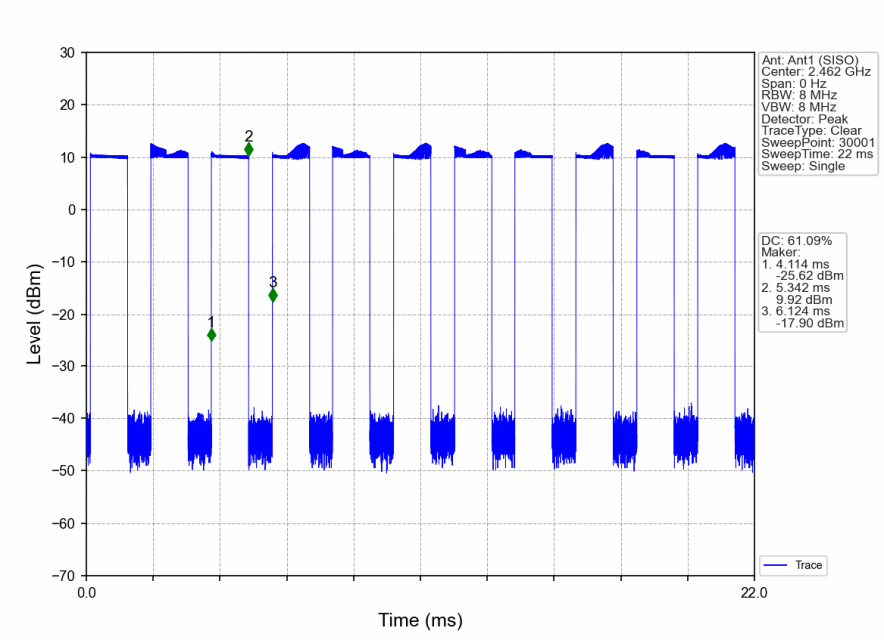
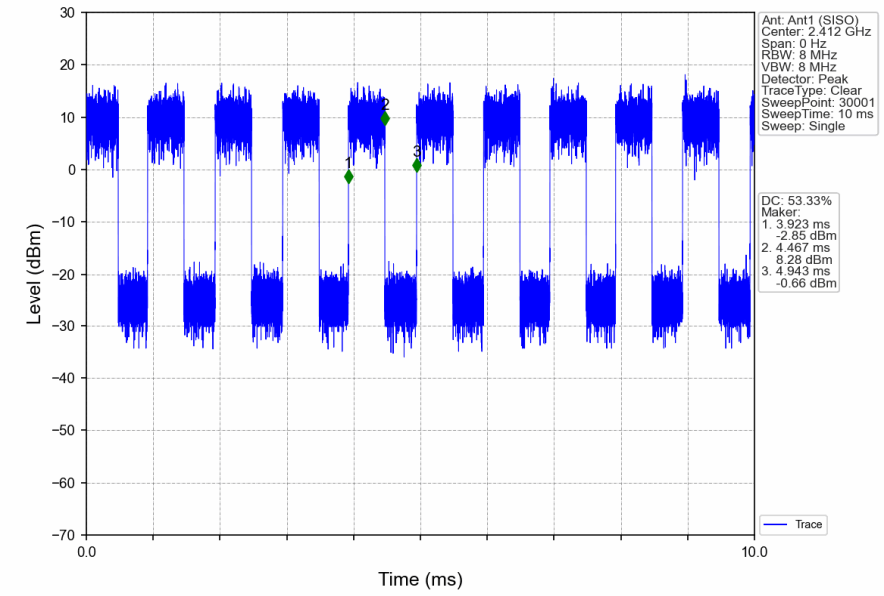
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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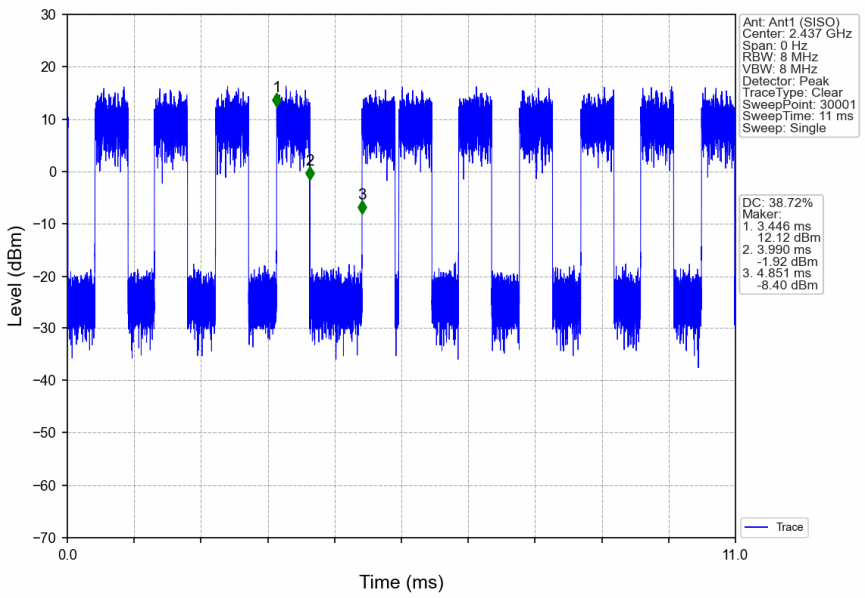
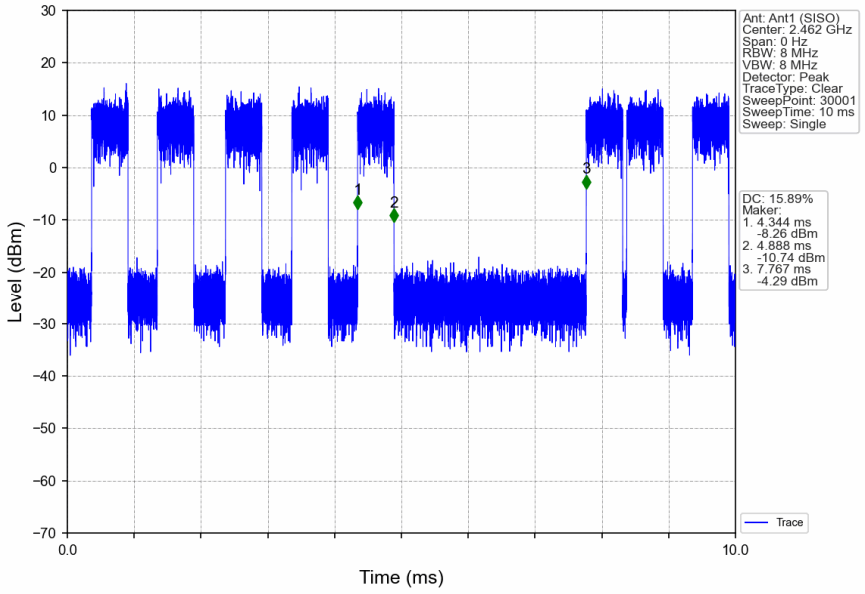
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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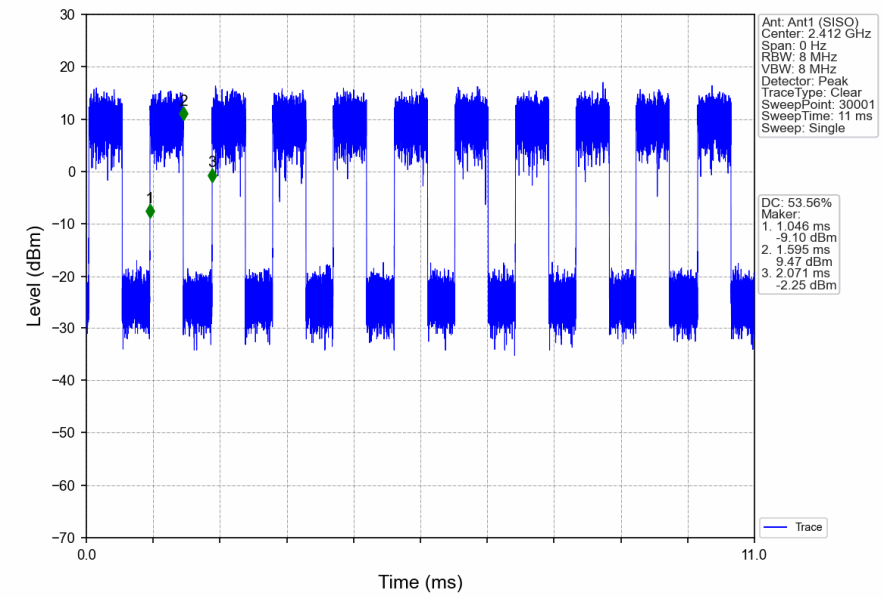
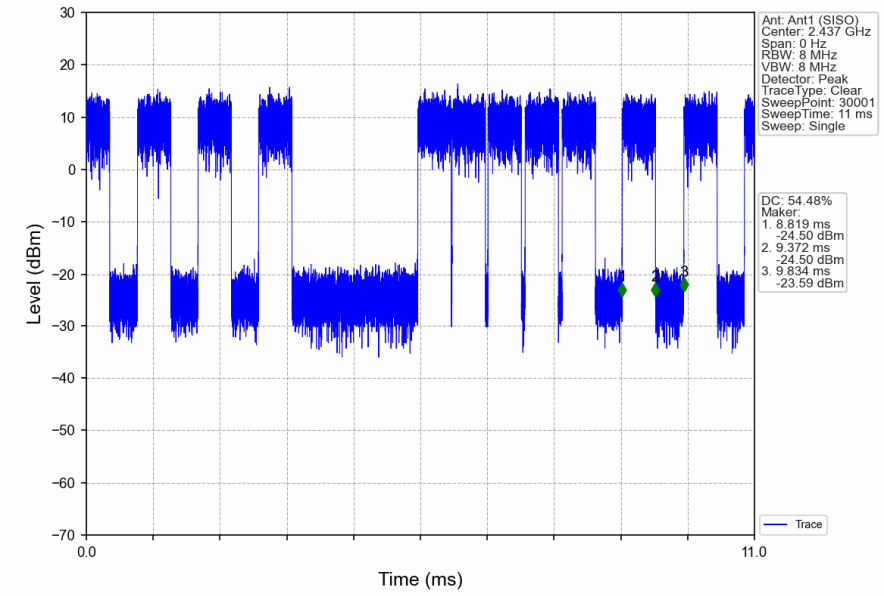
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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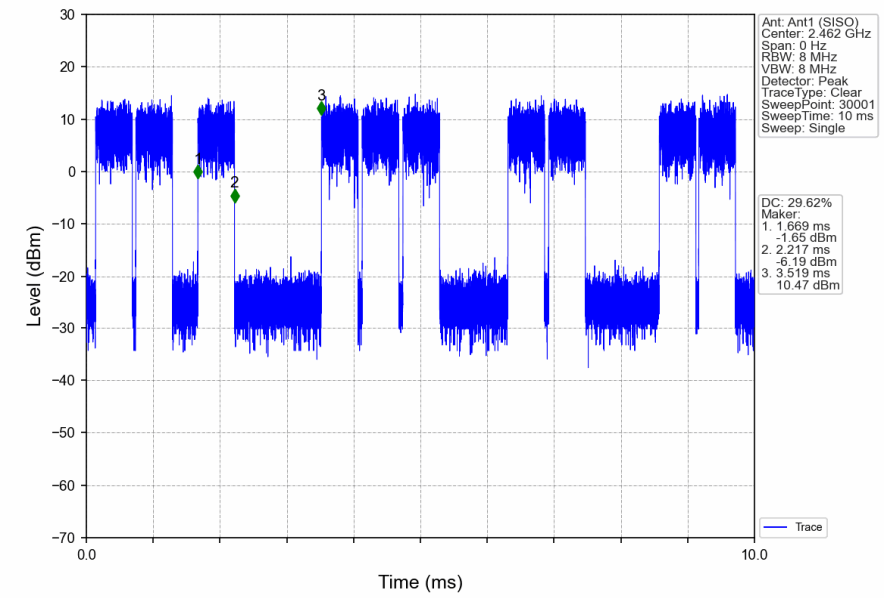
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11b	SISO	2412	1	17.189	Pass
		2437	1	17.195	Pass
		2462	1	17.194	Pass
802.11g	SISO	2412	1	18.132	Pass
		2437	1	18.127	Pass
		2462	1	18.121	Pass
802.11n (HT20)	SISO	2412	1	18.452	Pass
		2437	1	18.514	Pass
		2462	1	18.442	Pass

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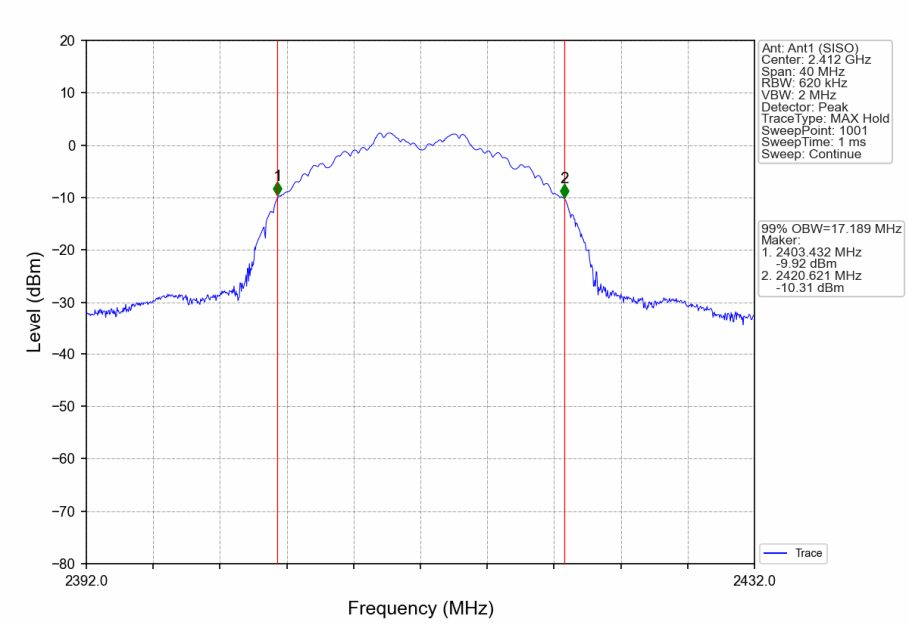
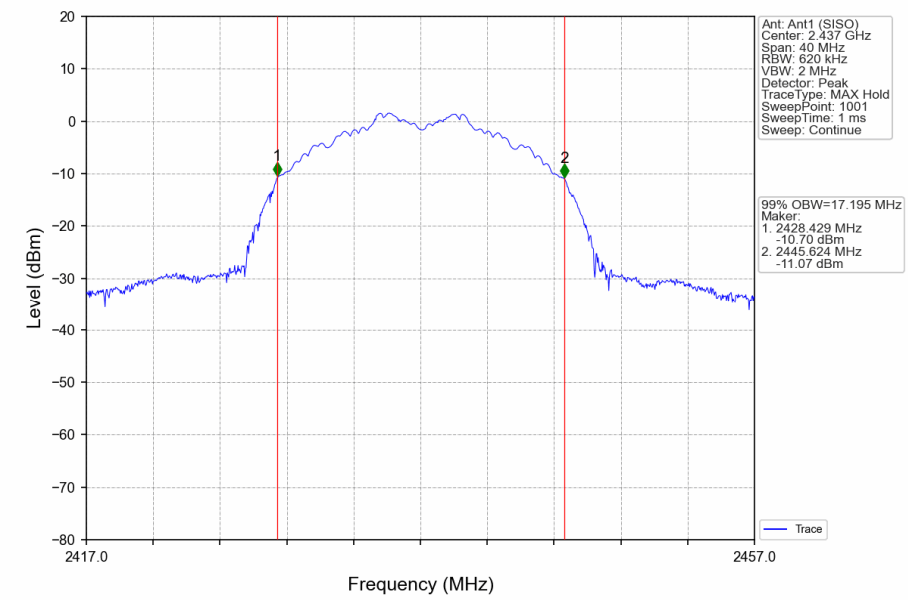
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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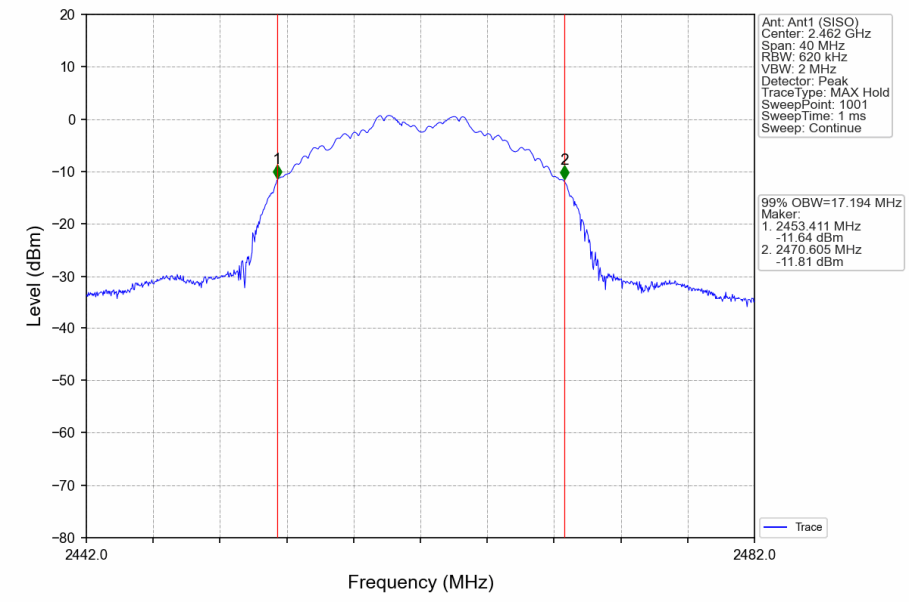
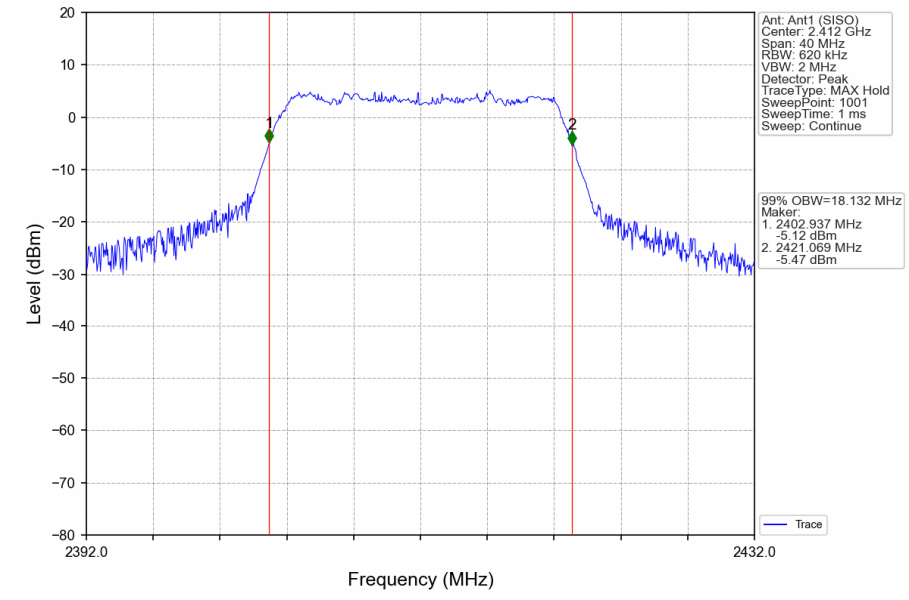
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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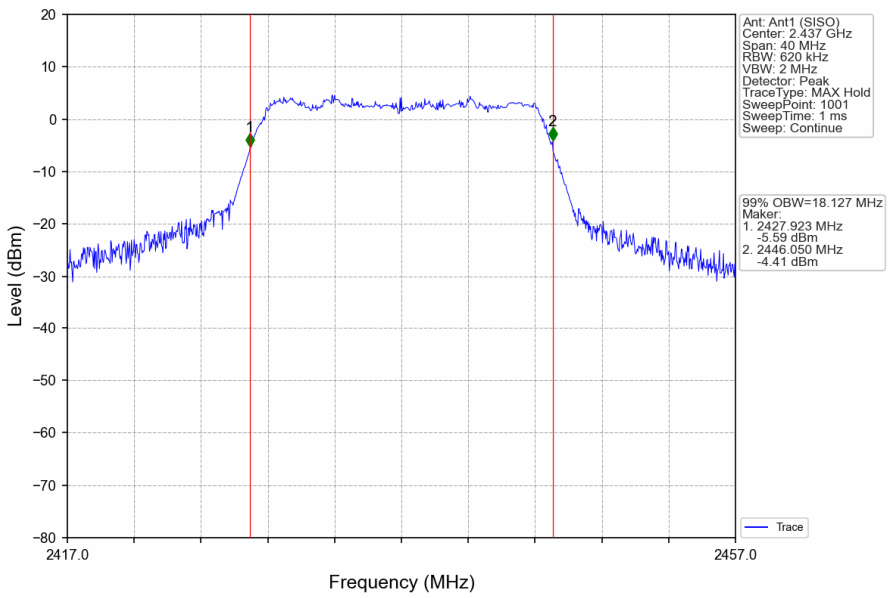
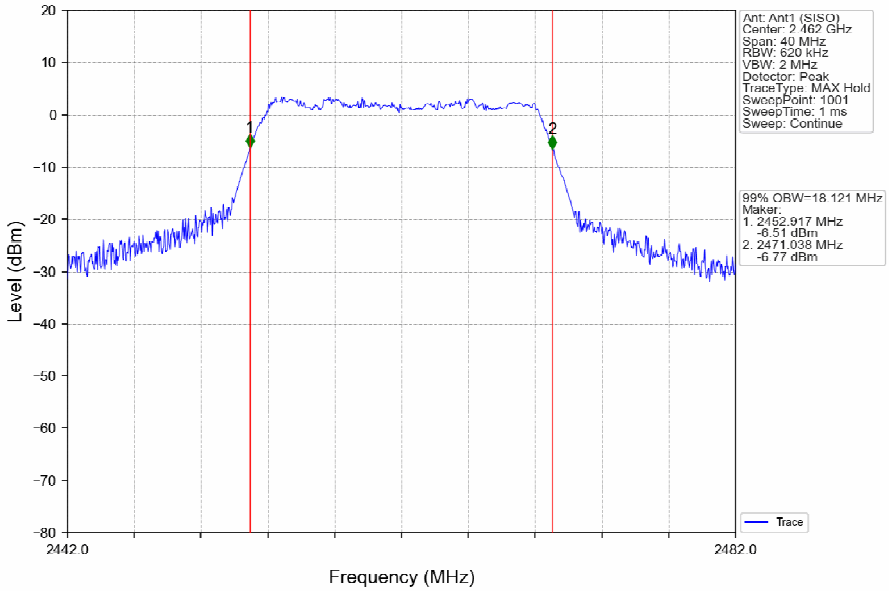
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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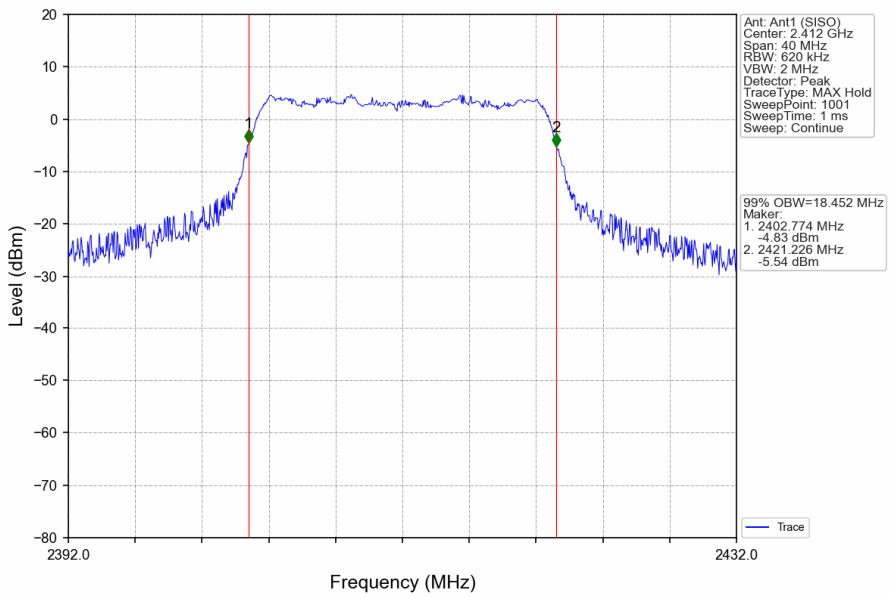
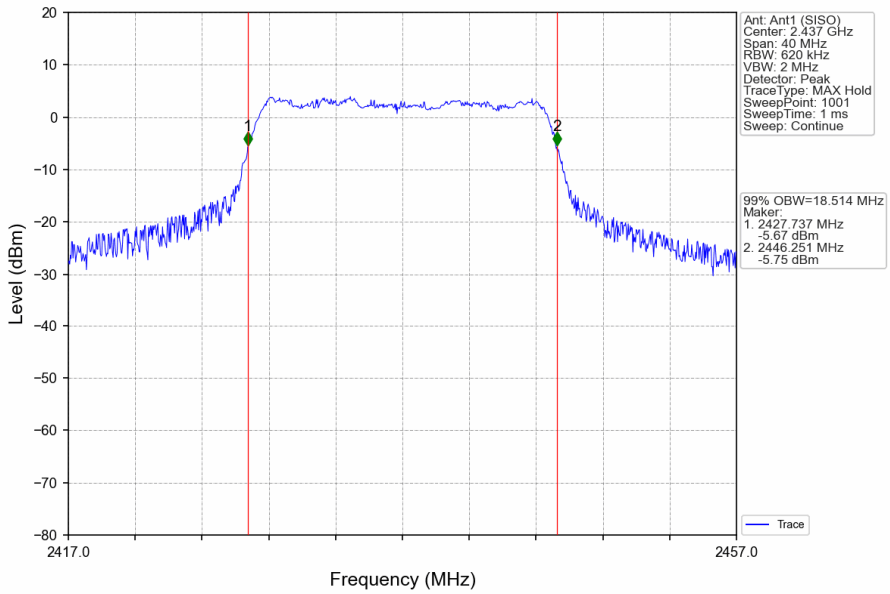
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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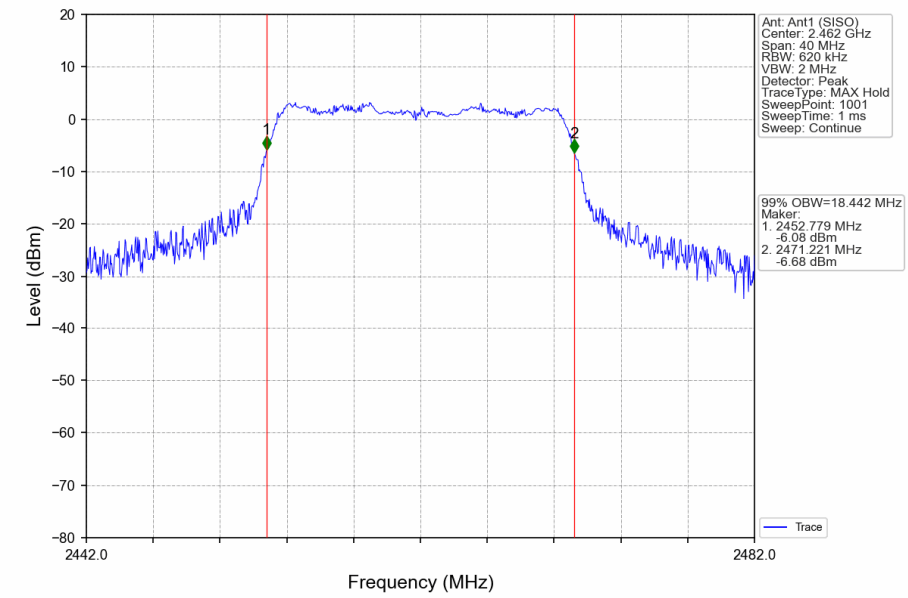
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.604	>=0.5	Pass
		2437	1	13.600	>=0.5	Pass
		2462	1	13.597	>=0.5	Pass
802.11g	SISO	2412	1	16.414	>=0.5	Pass
		2437	1	16.436	>=0.5	Pass
		2462	1	16.412	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.168	>=0.5	Pass
		2437	1	17.142	>=0.5	Pass
		2462	1	17.135	>=0.5	Pass

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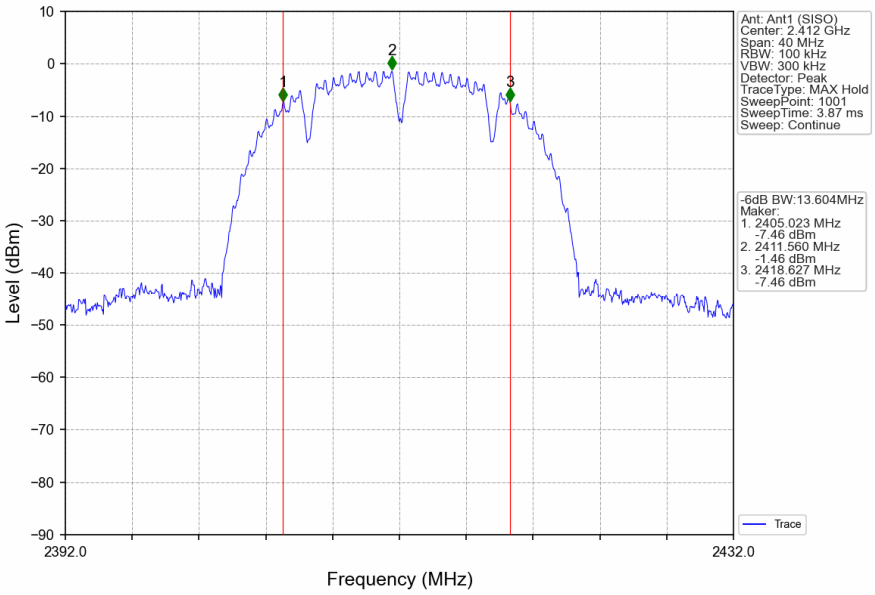
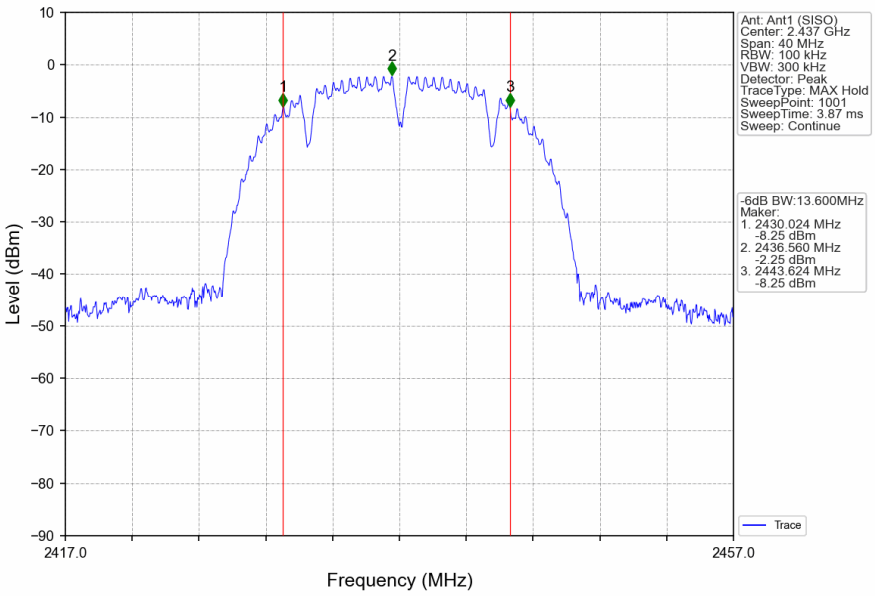
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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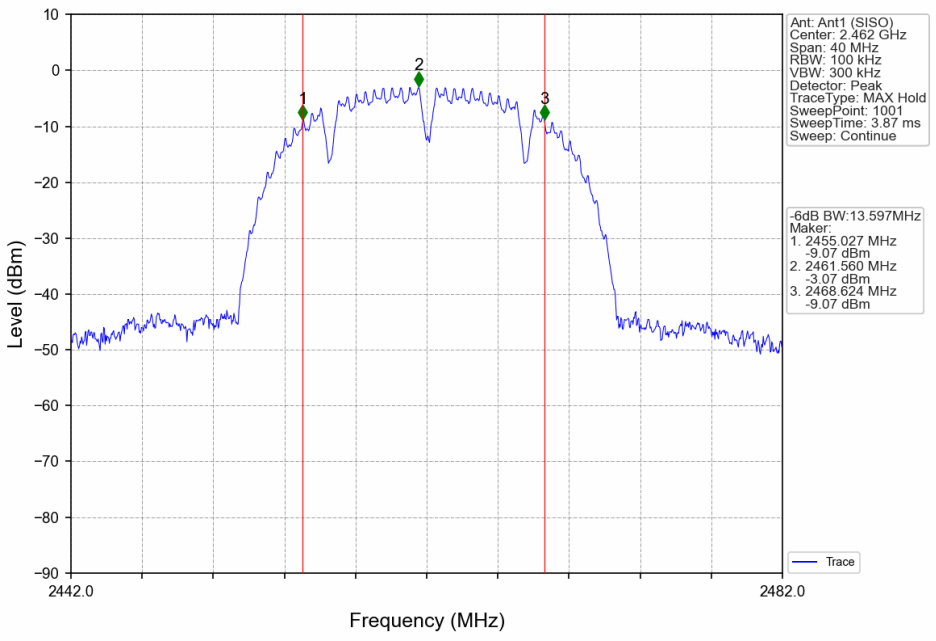
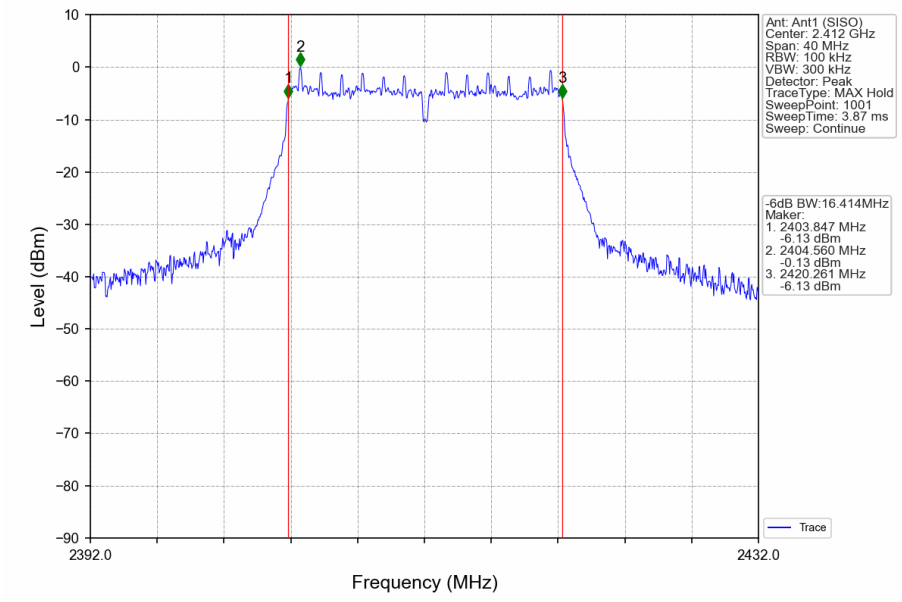
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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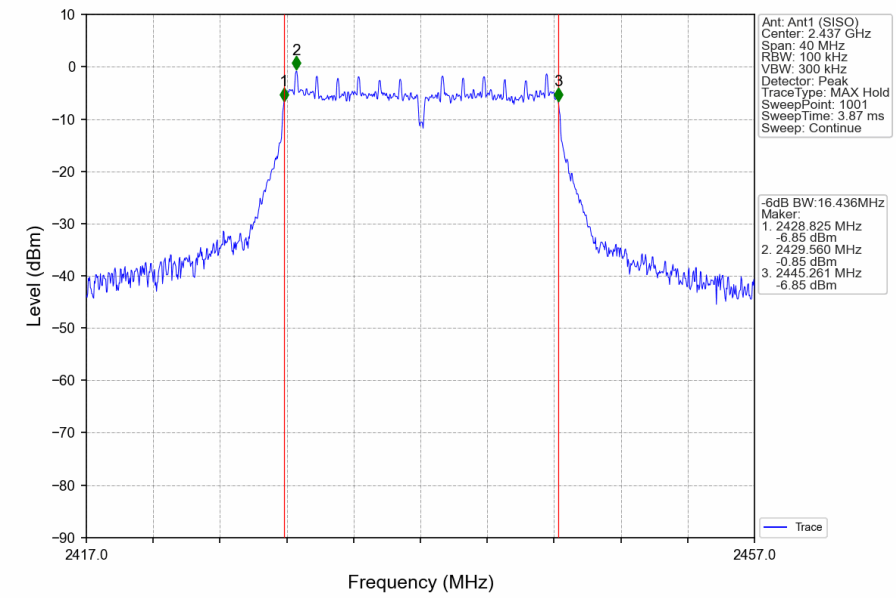
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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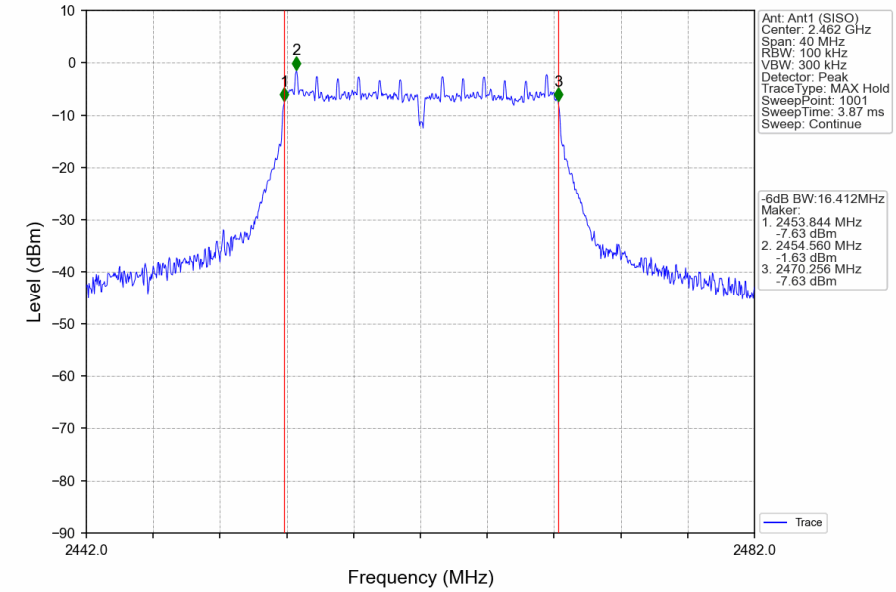

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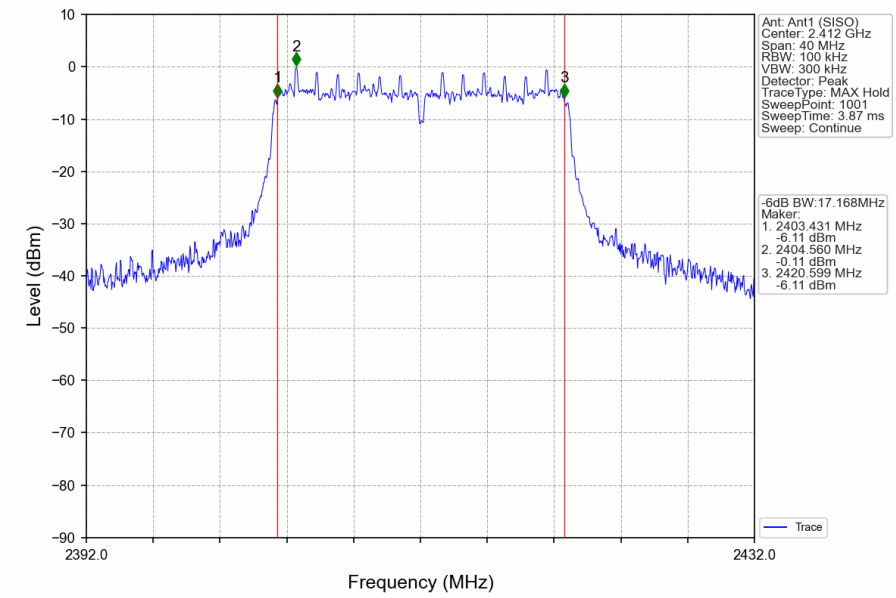
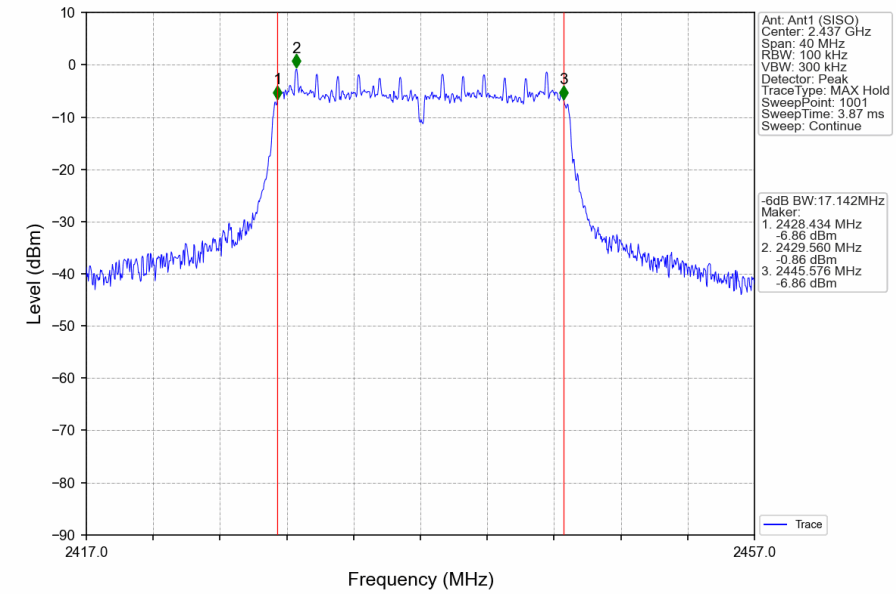
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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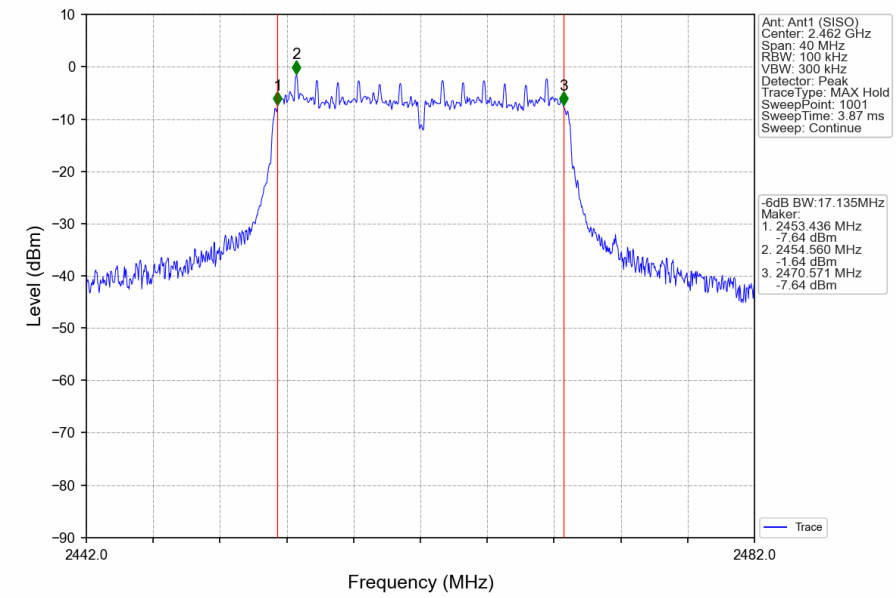
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	8.27	<=30	Pass
		2437	7.40	<=30	Pass
		2462	8.17	<=30	Pass
802.11g	SISO	2412	8.44	<=30	Pass
		2437	7.67	<=30	Pass
		2462	8.73	<=30	Pass
802.11n (HT20)	SISO	2412	8.26	<=30	Pass
		2437	7.57	<=30	Pass
		2462	8.62	<=30	Pass

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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-13.27	<=8	Pass
		2437	-13.82	<=8	Pass
		2462	-14.54	<=8	Pass
802.11g	SISO	2412	-14.08	<=8	Pass
		2437	-15.03	<=8	Pass
		2462	-15.82	<=8	Pass
802.11n (HT20)	SISO	2412	-14.53	<=8	Pass
		2437	-15.72	<=8	Pass
		2462	-15.49	<=8	Pass

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4.1.2 Test Graph

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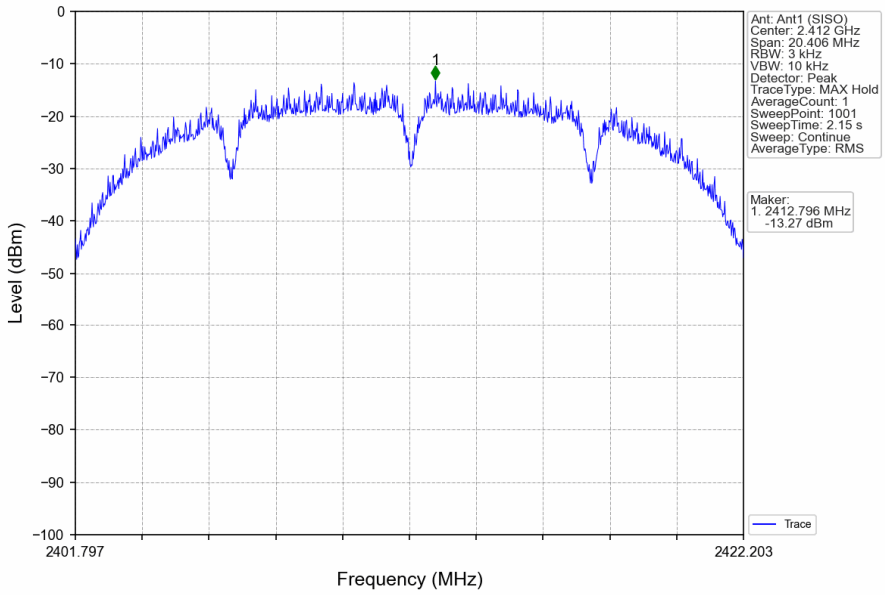

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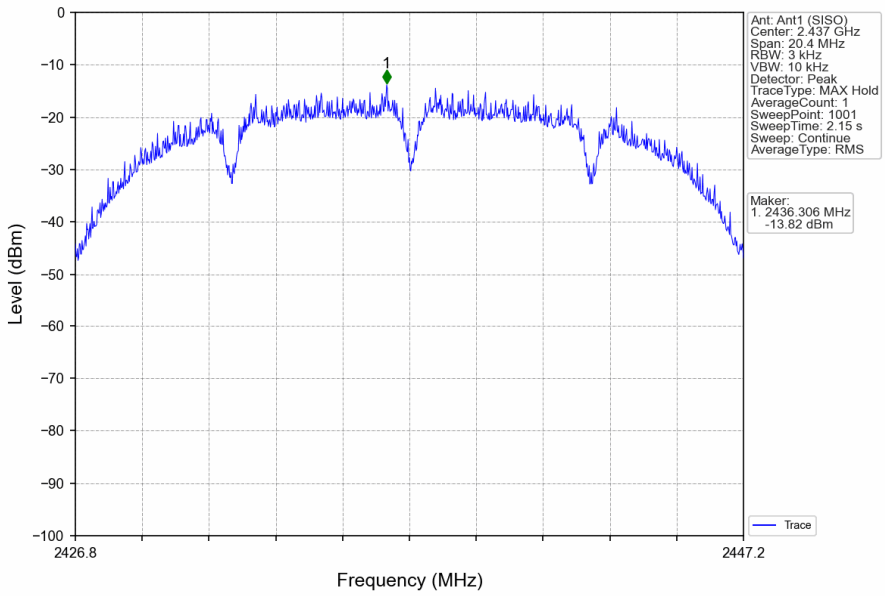

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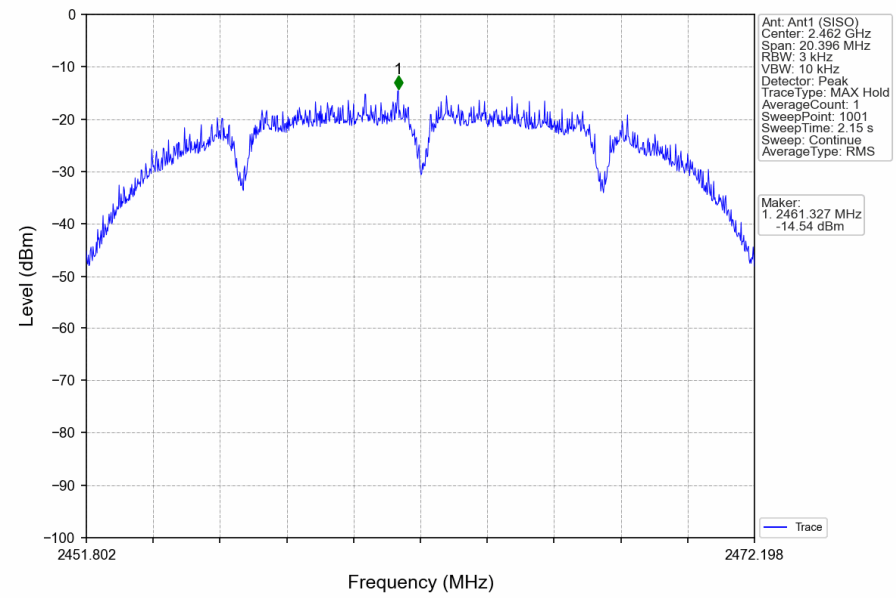

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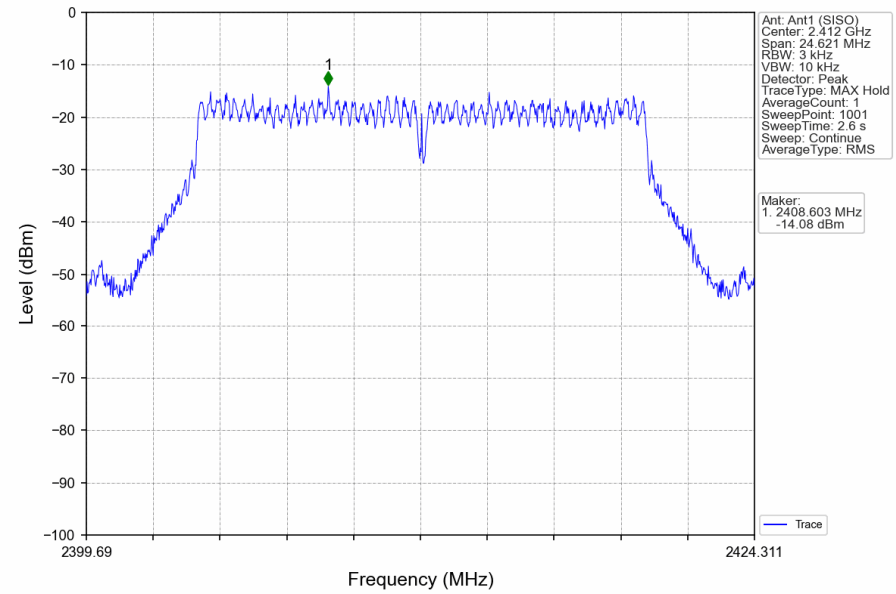

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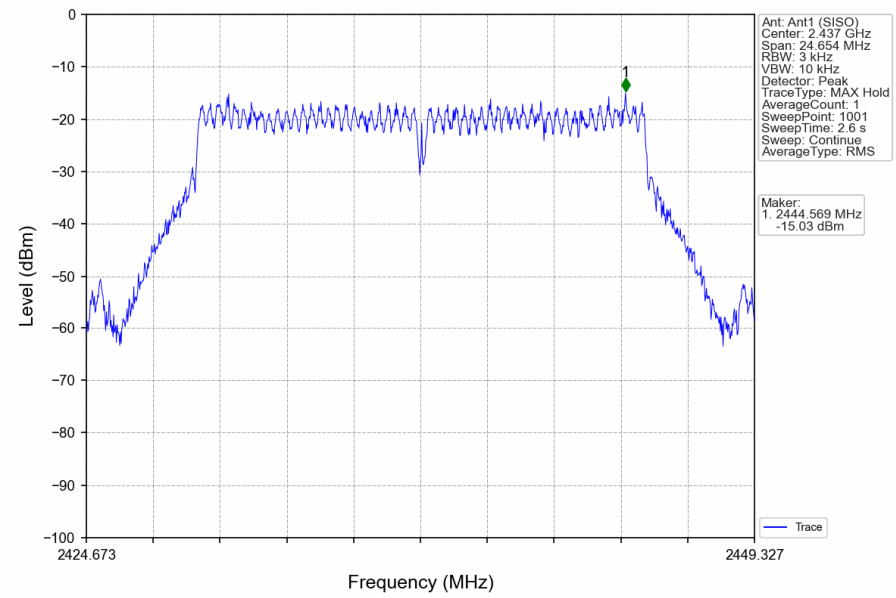

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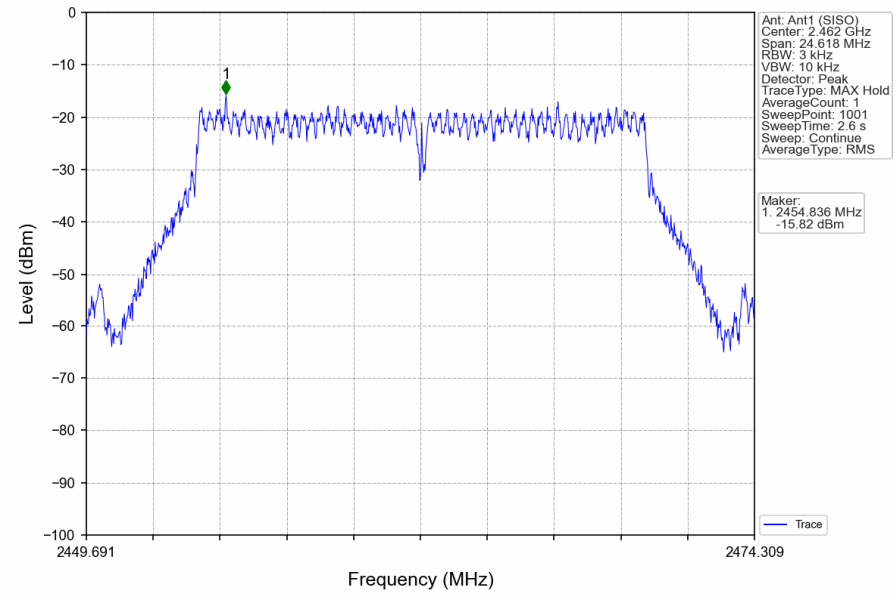

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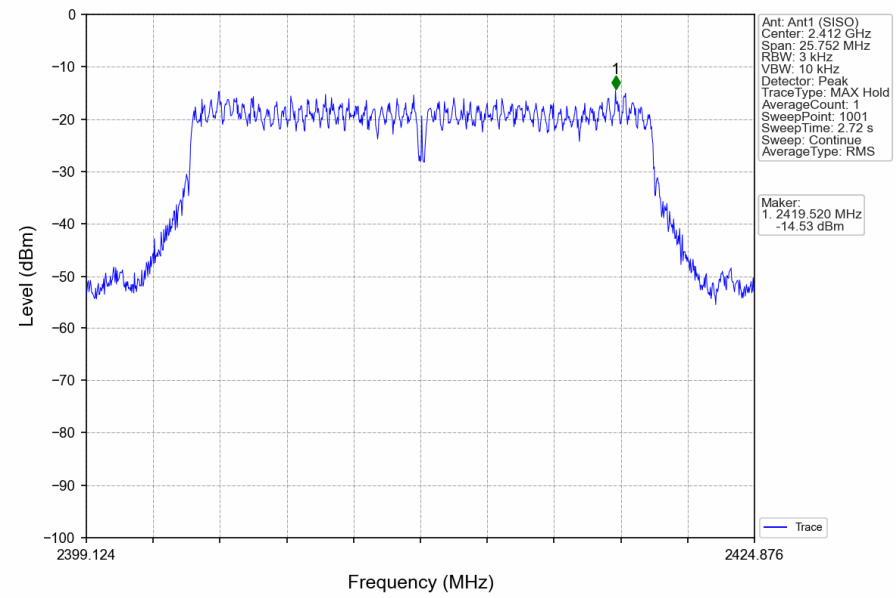

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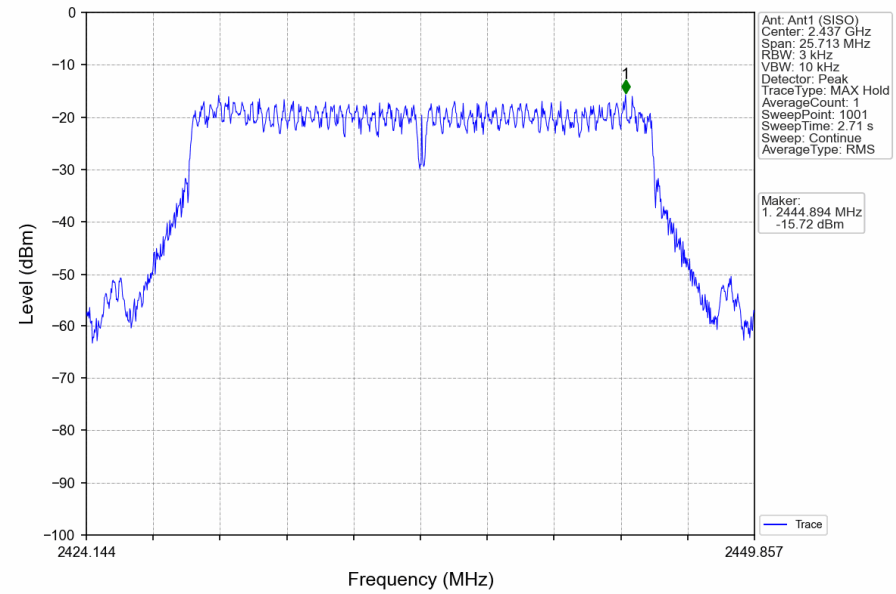

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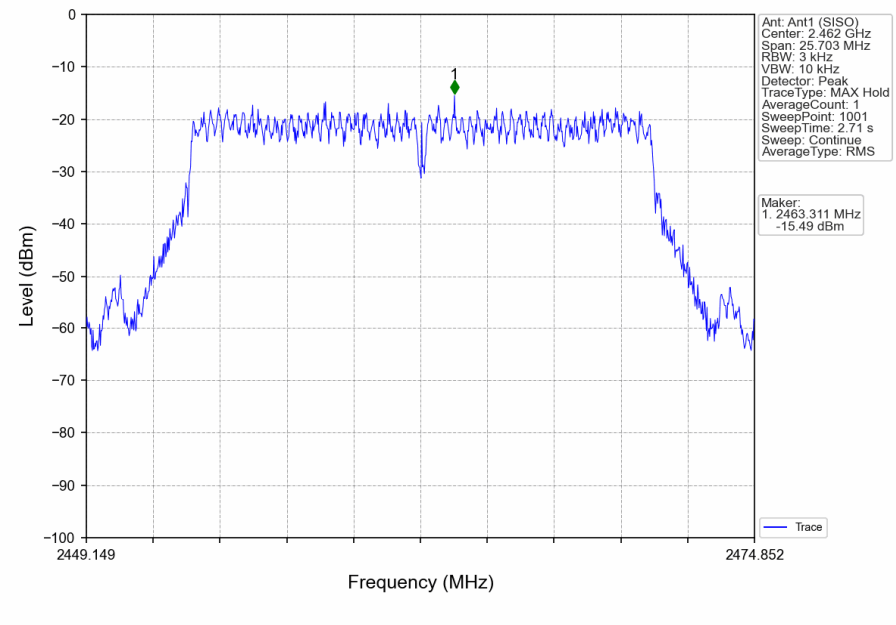

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5. Unwanted Emissions InStandard Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-1.27
		2437	1	-2.16
		2462	1	-1.12
802.11g	SISO	2412	1	-0.52
		2437	1	-0.91
		2462	1	-0.05
802.11n (HT20)	SISO	2412	1	-0.30
		2437	1	-1.31
		2462	1	0.22

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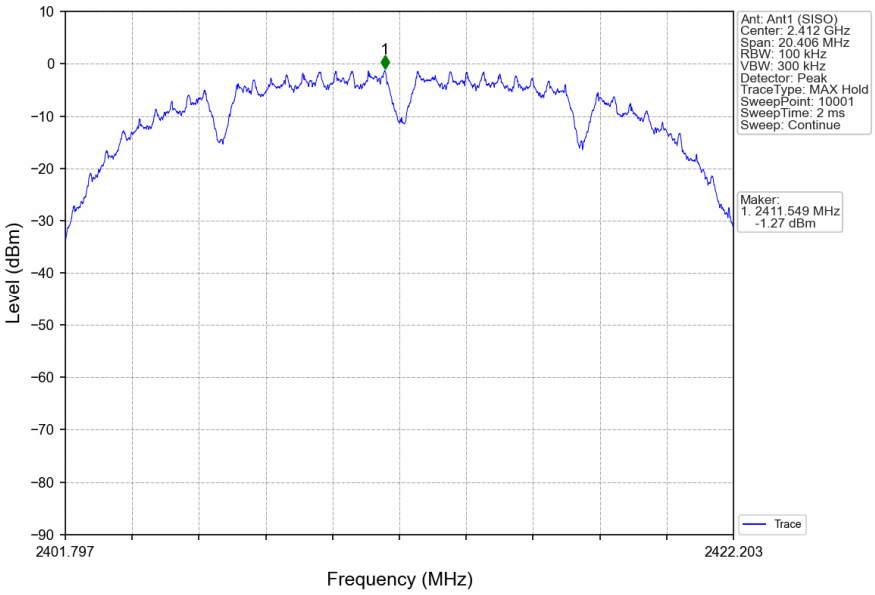
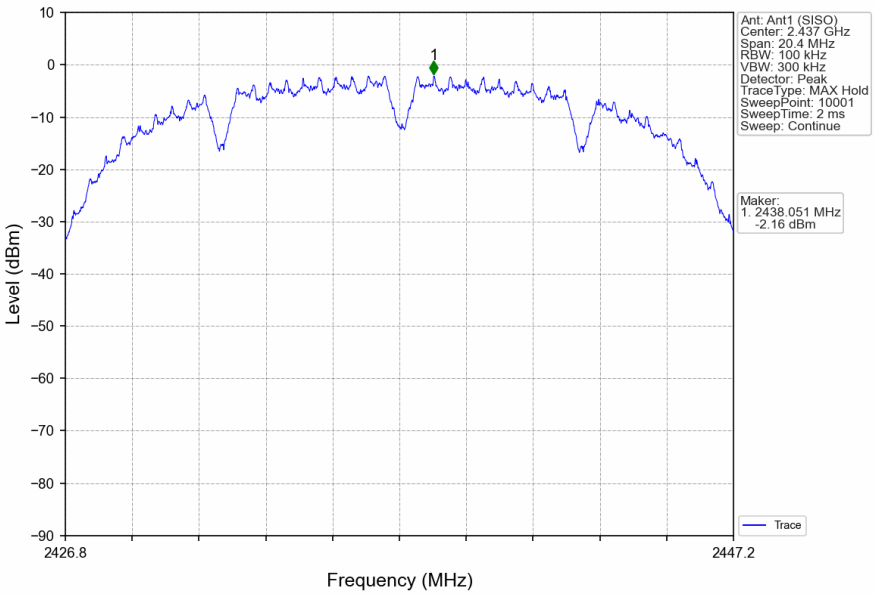
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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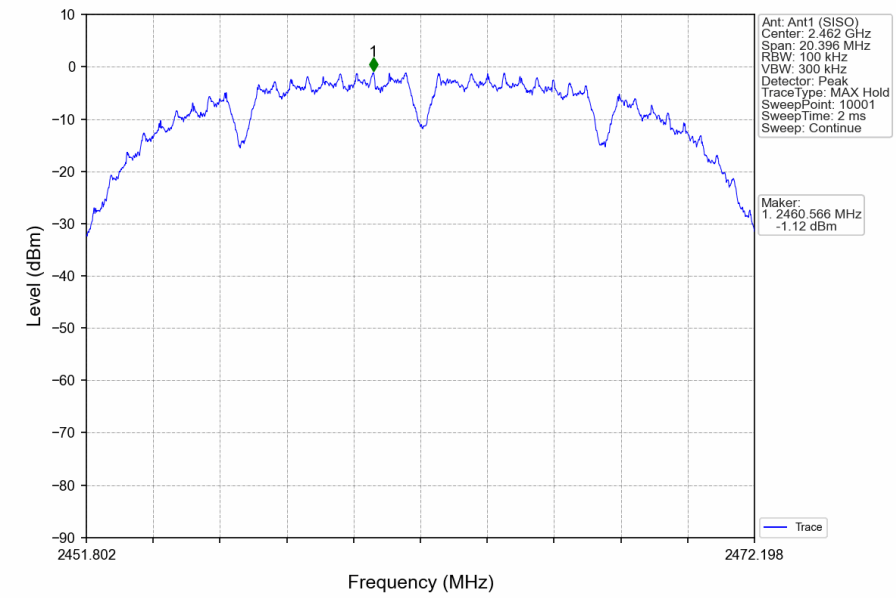
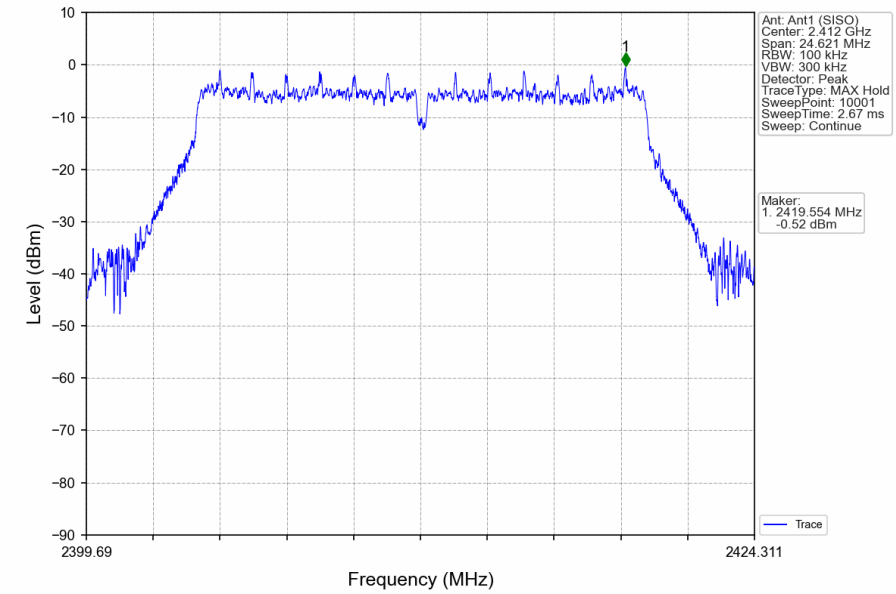
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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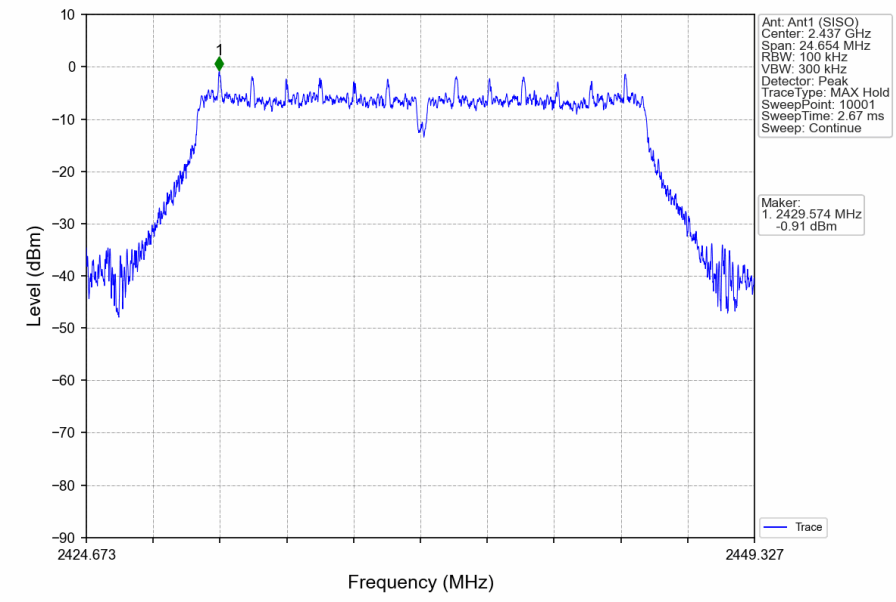
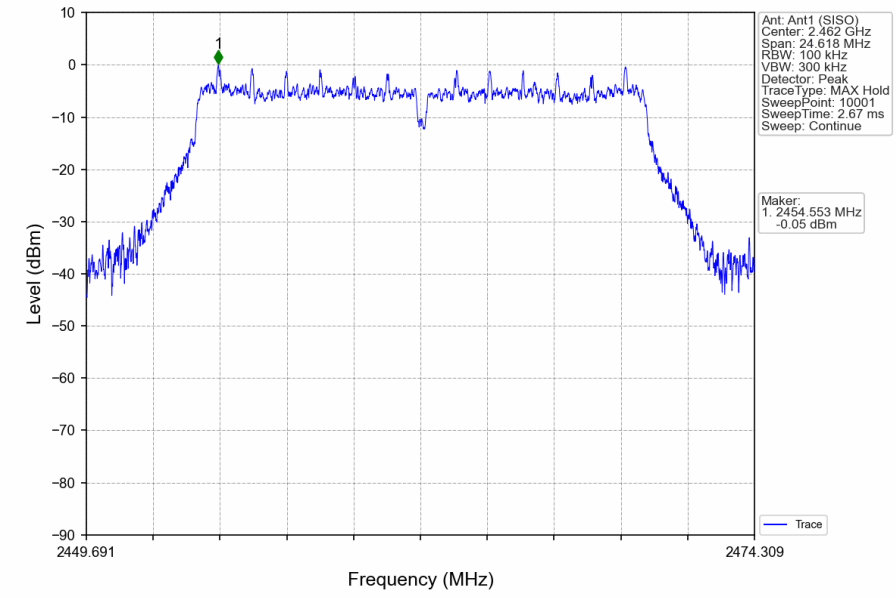
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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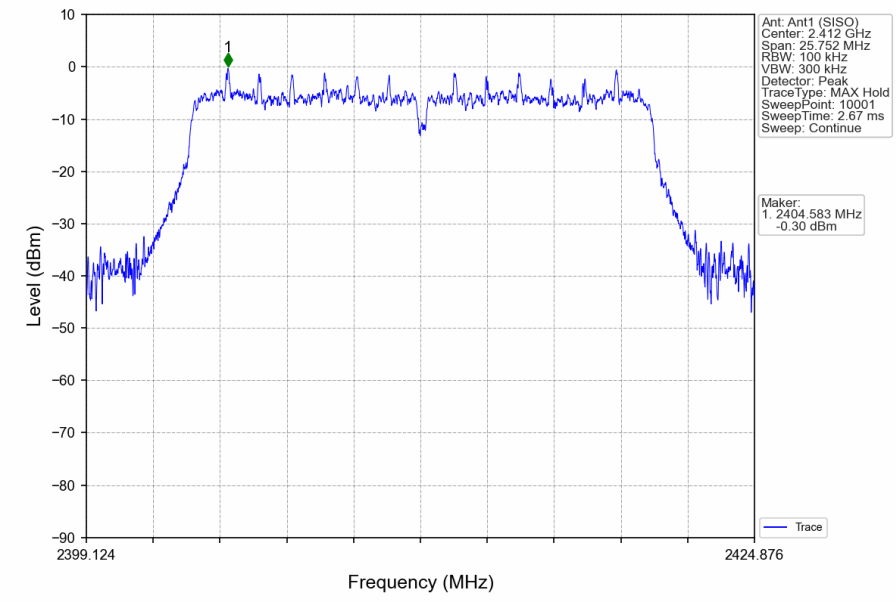
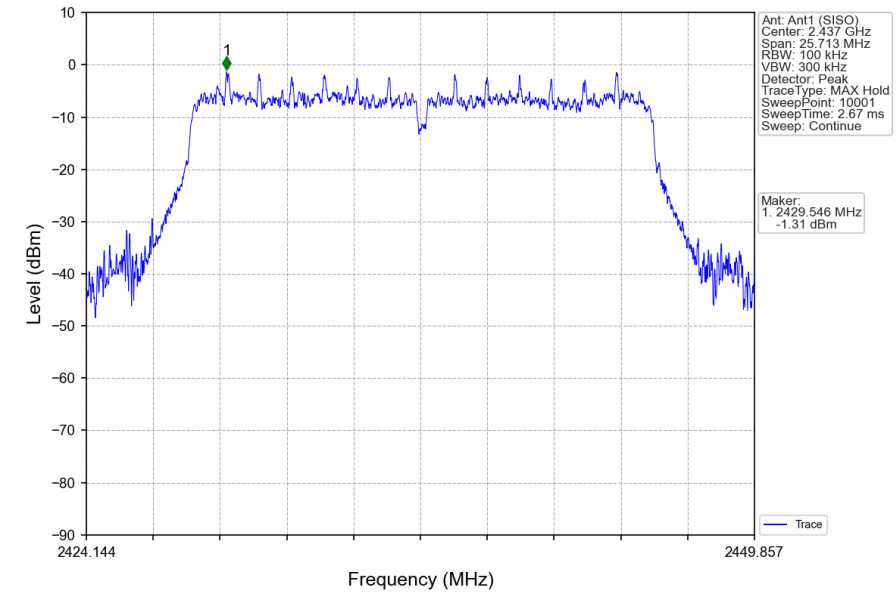
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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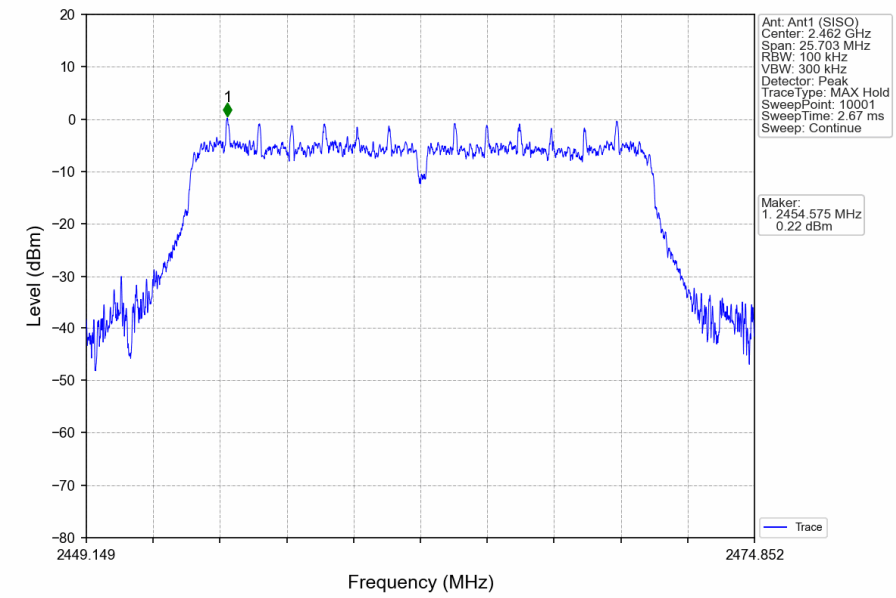
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-1.12	-31.12	Pass
		2437	1	-1.12	-31.12	Pass
		2462	1	-1.12	-31.12	Pass
802.11g	SISO	2412	1	-0.05	-30.05	Pass
		2437	1	-0.05	-30.05	Pass
		2462	1	-0.05	-30.05	Pass
802.11n (HT20)	SISO	2412	1	0.22	-29.78	Pass
		2437	1	0.22	-29.78	Pass
		2462	1	0.22	-29.78	Pass

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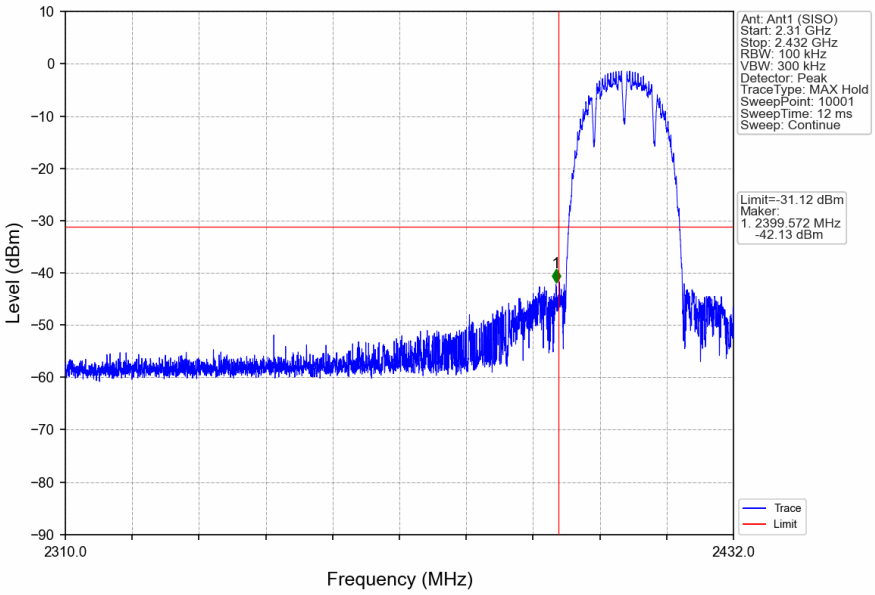
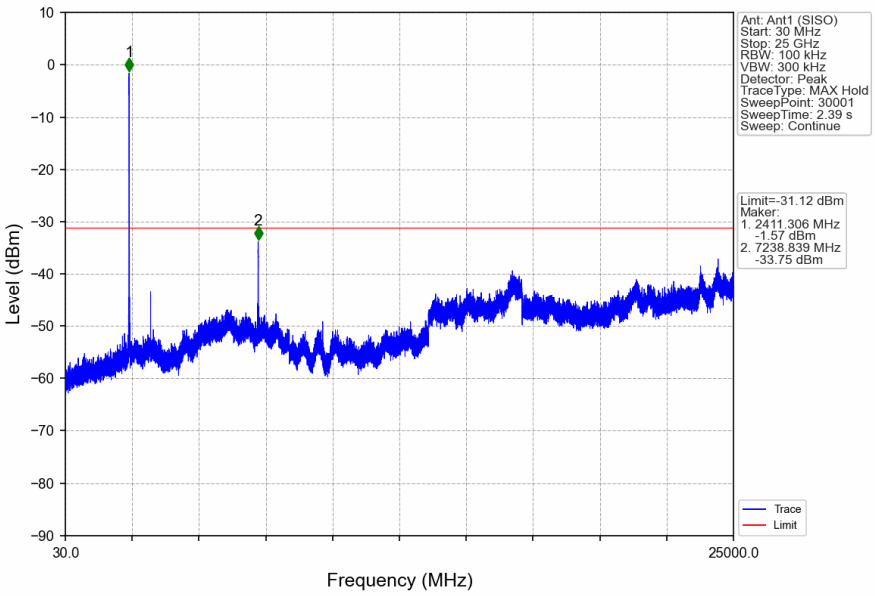
5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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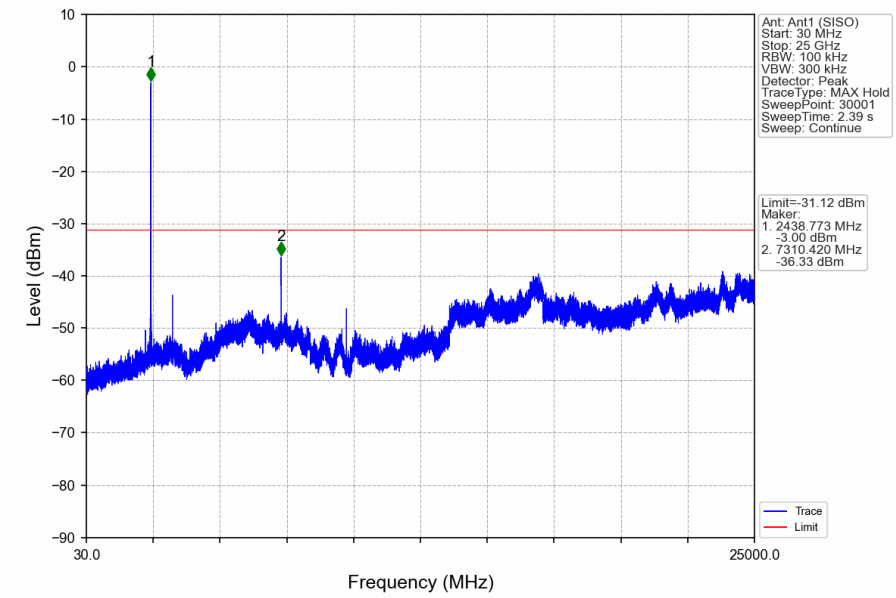
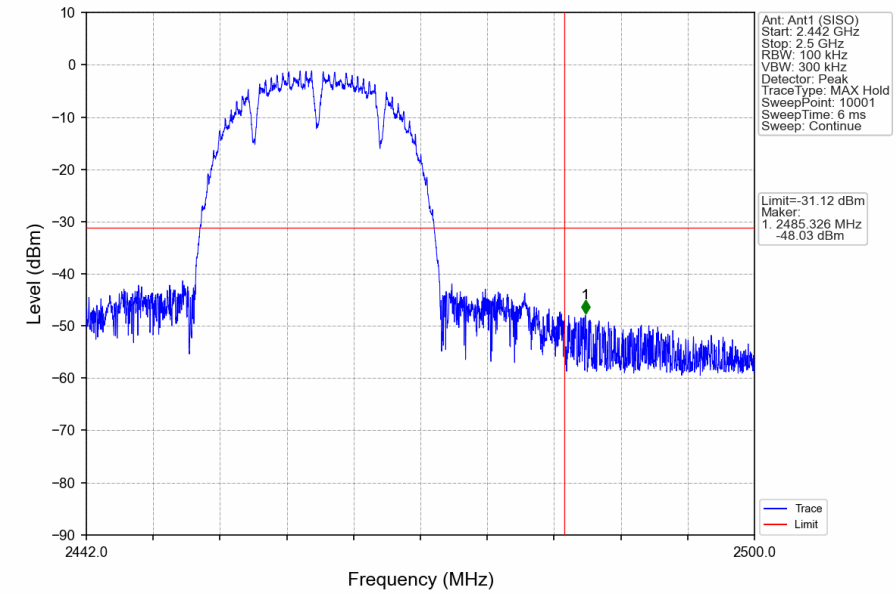
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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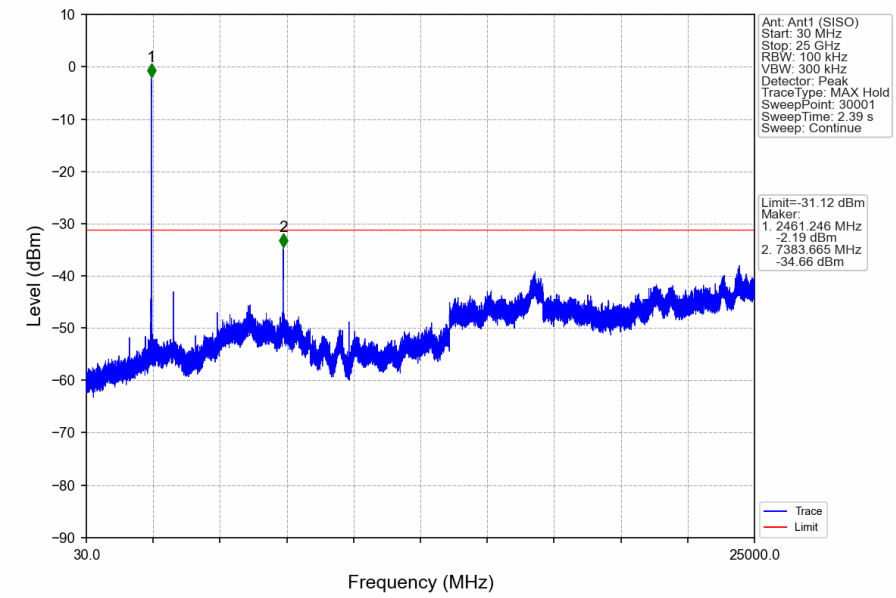
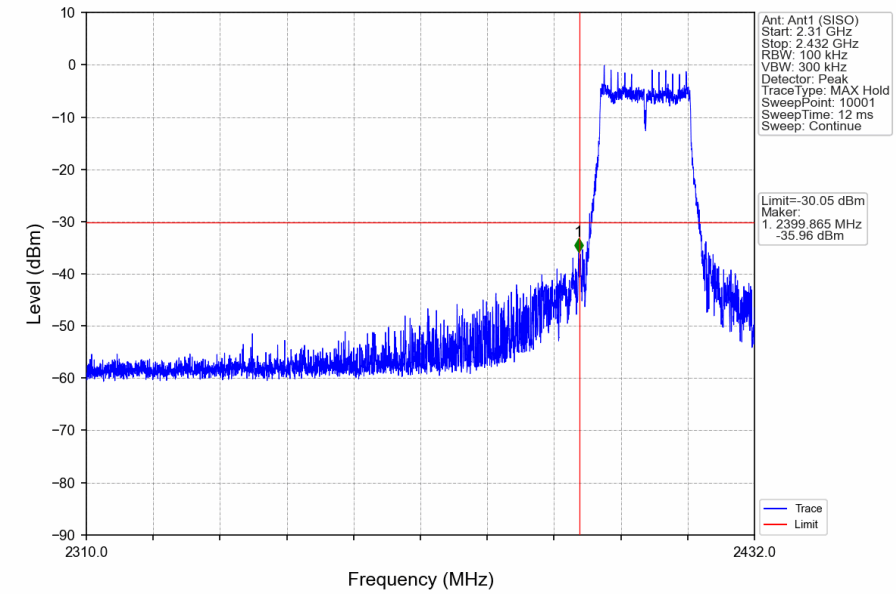
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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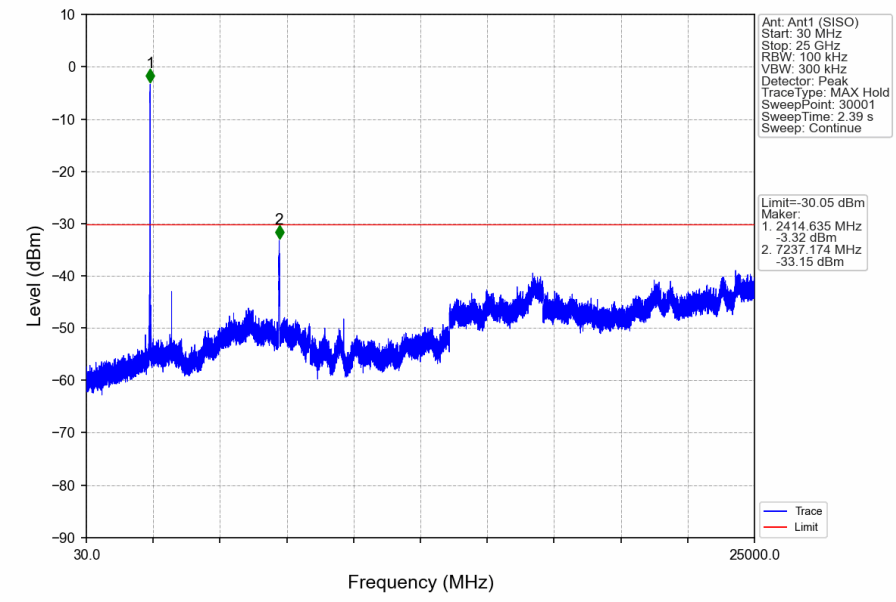
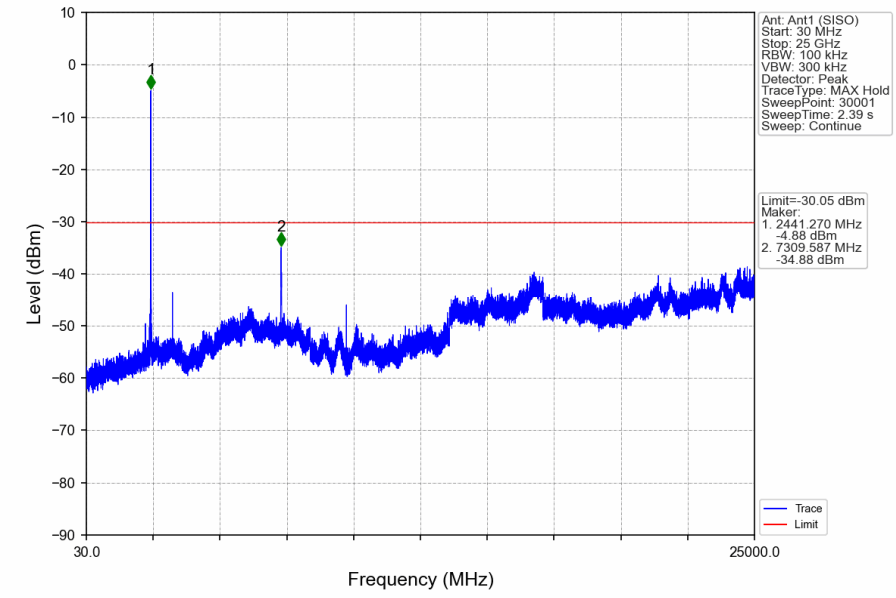
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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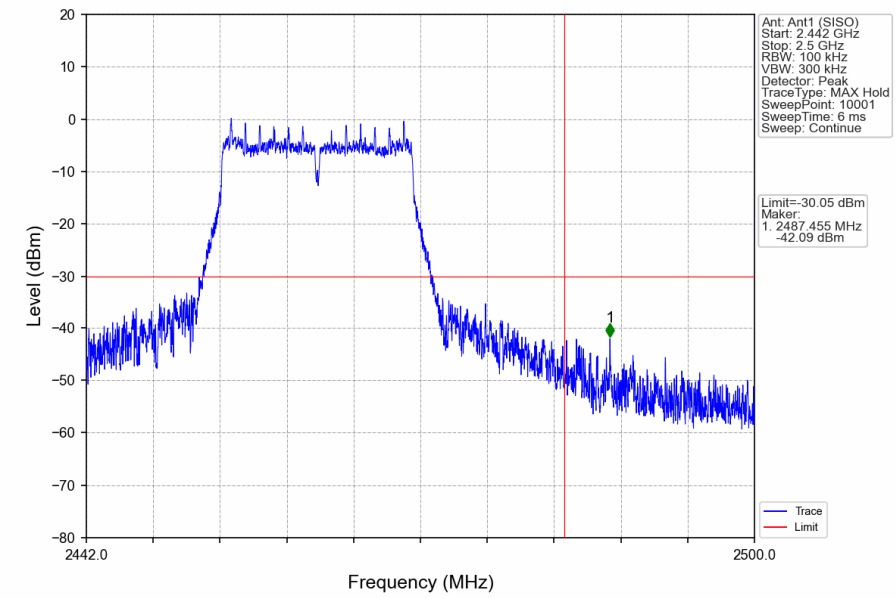
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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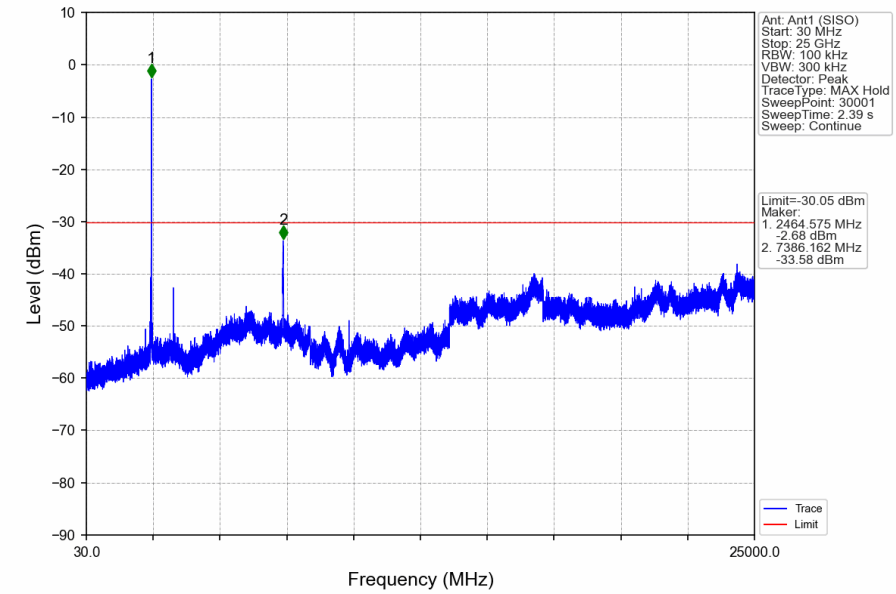

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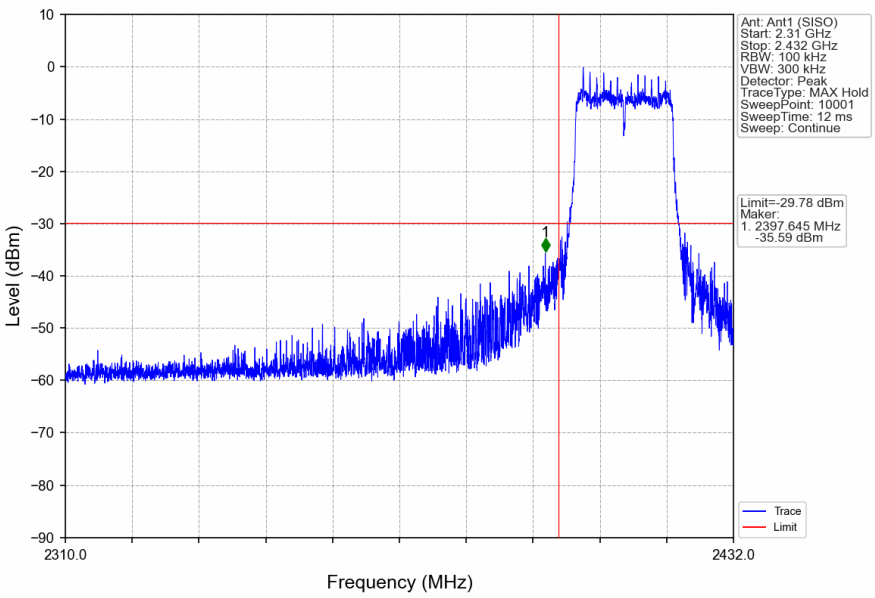
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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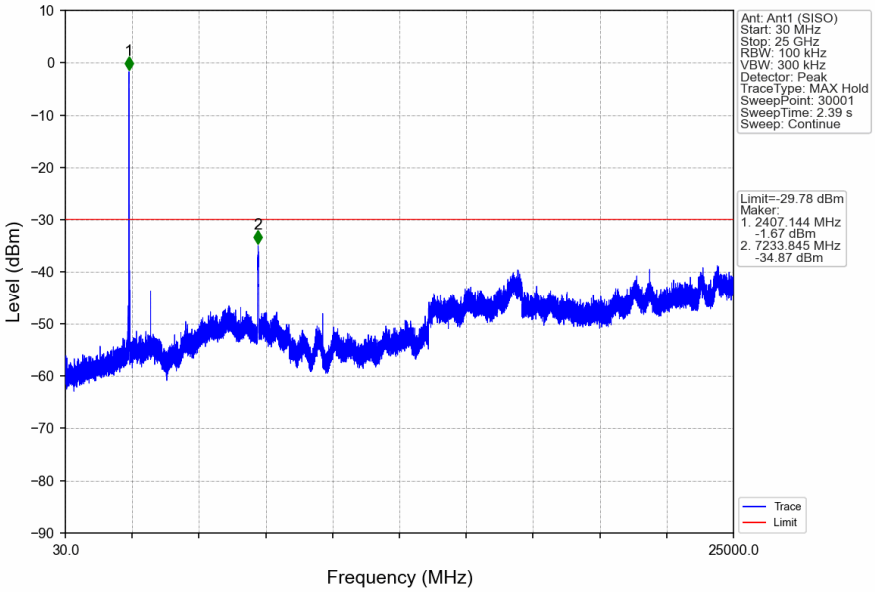

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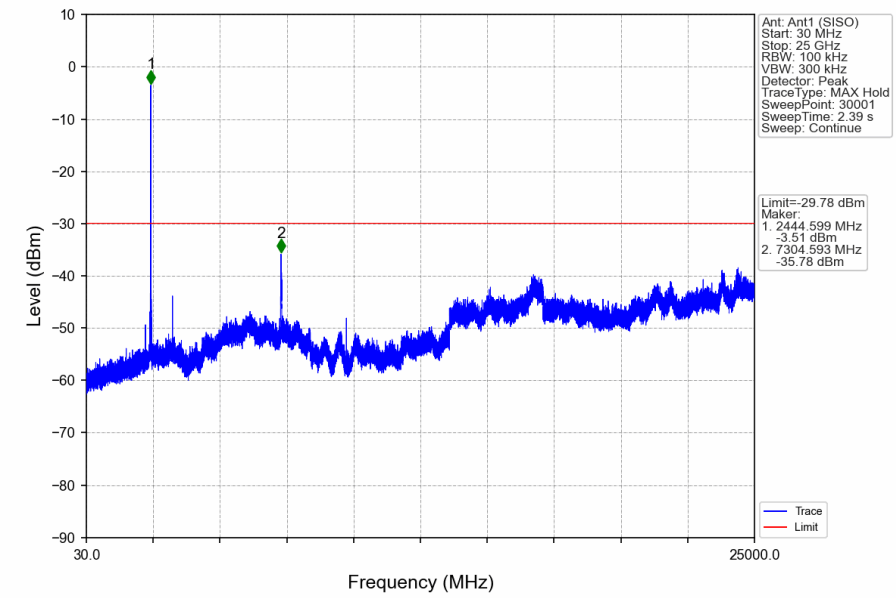
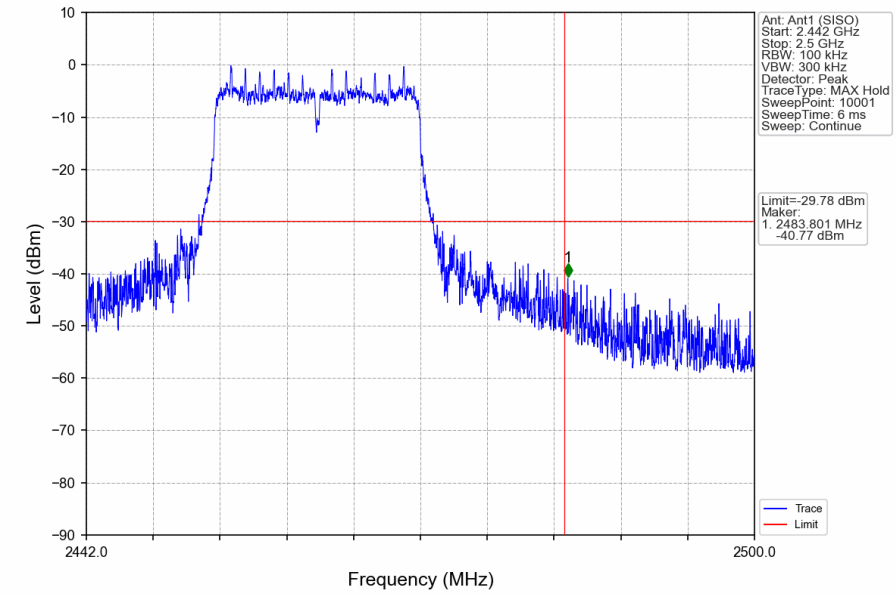
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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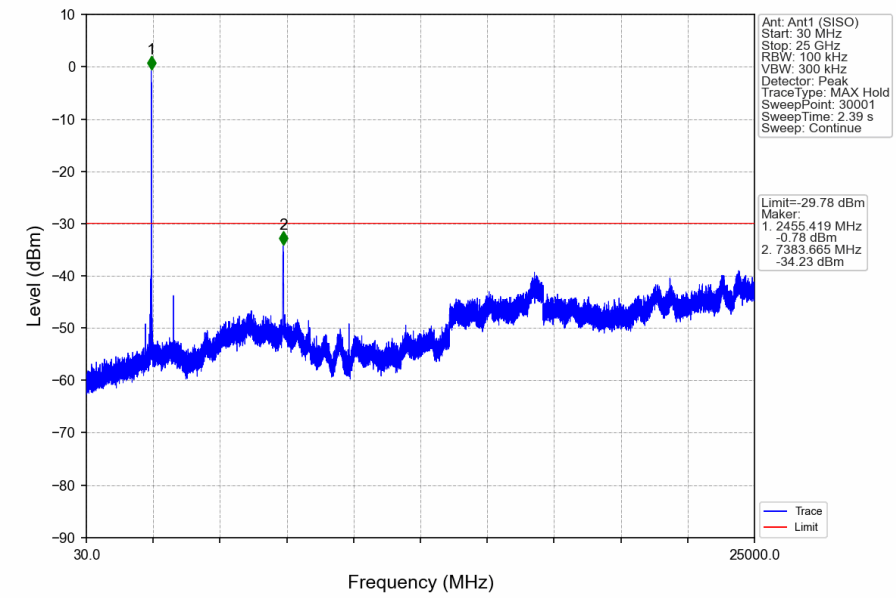

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