TEST REPORT

Application No.:	SZCR2602000568WM
Applicant:	TCL Communication Ltd.
Address of Applicant:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer:	TCL Communication Ltd.
Address of Manufacturer:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Equipment Under Test (EUT):	
EUT Description:	GSM/UMTS/LTE/NR Mobile phone
Model No.:	T624Z
FCC ID:	2ACCJH207
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2025-12-22 (for report SZCR251200564605)
Date of Test:	2025-12-30 to 2026-01-23 (for report SZCR251200564605)
Date of Issue:	2026-01-27 (for report SZCR251200564605) 2026-03-13 (for report SZCR260200056808)
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2026-03-13		Original

Authorized for issue by:				
		Charlie Dai **Charlie Dai/Project Engineer**		
		Eric Fu **Eric Fu/Reviewer**		

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2020) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2020) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2020) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

Remark:

This test report (Report No.: SZCR260200056808 issue on 2026-03-13) is based on the original test report (Report No.: SZCR251200564605 issue on 2026-01-27).

According to the declaration from the applicant, the models in this report and models in original report were identical, with only the following differences:

1. Model changed from T624J to T624Z.
2. FCC ID changed from 2ACCJH205 to 2ACCJH207.

Therefore in this report all items do not need to retest and all test data in this report are based on the previous report with report number SZCR251200564605 issue on 2026-01-27.

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4 General Information

4.1 Details of E.U.T.

EUT Description:	GSM/UMTS/LTE/NR Mobile phone	
Model No.:	T624Z	
Hardware Version:	03	
Software Version:	CBS5	
Power Supply:	Powered by DC3.91V/5000mAh (Model: TLp050B7) by Rechargeable Li-ion Battery. Charged by USB port from adapter.	
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7	
Channel Spacing:	5MHz	
Smart System:	☒ SISO	802.11b/g/n
	☐ MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
		TXBF: 802.11n: Tx & Rx
	☐ Diversity	802.11b/g : Tx & Rx
Antenna Type:	FPC Antenna	
Antenna Gain:	-4.65dBi(Ant7);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2000MHz ~ 3000MHz (1.1dB)	
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		

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4.2 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	33.1-50.8 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	21.1~24.5	3.91

Note:
NV:Normal Voltage LV:Low Extreme Test Voltage HV:High Extreme Test Voltage
NT:Normal Temperature LT:Low Extreme Test Temperature HT:High Extreme Test Temperature

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Lenovo	LA140	REF. No.SEA05S01I

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.2dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Conducted Peak Output Power	± 0.4dB
Minimum 6dB Bandwidth	± 0.3%
Power Spectrum Density	± 0.4dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB

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

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4.5 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.6 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

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

Radiated Spurious Emissions 30MHz-1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

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Radiated Spurious Emissions Below 30MHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-21	2026-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2026-03-03
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04

Radiated Spurious Emissions Above 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

RF Conducted Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04

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Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

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

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检验检测专用章
Inspection & Testing Services
SGS-CSTC Standards Technical Services Co.,Ltd. Shenzhen Branch Testing Center LLC Laboratory.

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is FPC Antenna and no consideration of replacement. The best case gain of the antenna is -4.65dBi(Ant7);.

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2020) Section 6.2
Test Engineer: Mason Wu

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.4 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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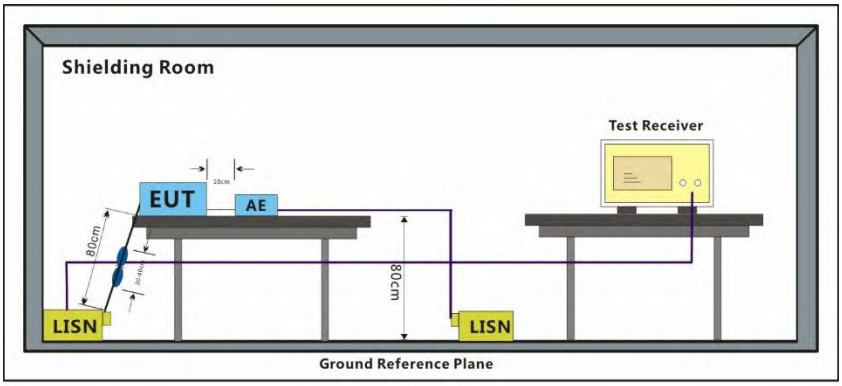
7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark : Level=Read Level+ Cable Loss+ LISN Factor

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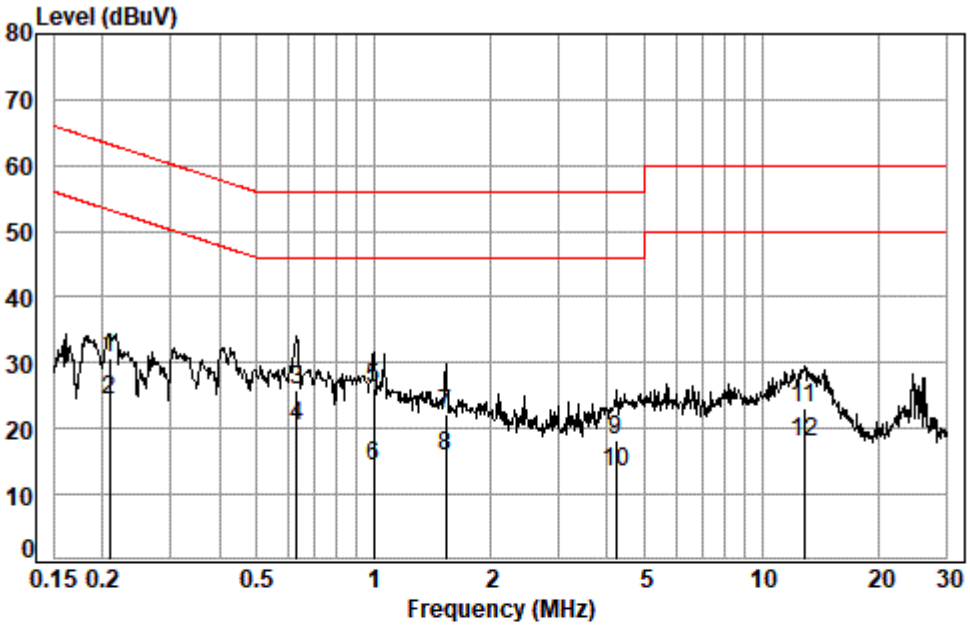
Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05646WM/05647WM
Test mode: 08

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.2083	0.07	10.09	20.70	30.86	63.27	-32.41	QP
2		0.2083	0.07	10.09	14.10	24.26	53.27	-29.01	Average
3		0.6338	0.10	9.62	16.15	25.87	56.00	-30.13	QP
4	*	0.6338	0.10	9.62	10.67	20.39	46.00	-25.61	Average
5	*	0.9997	0.11	9.58	16.60	26.29	56.00	-29.71	QP
6		0.9997	0.11	9.58	4.51	14.20	46.00	-31.80	Average
7		1.5355	0.12	9.58	12.36	22.06	56.00	-33.94	QP
8		1.5355	0.12	9.58	6.11	15.81	46.00	-30.19	Average
9		4.2242	0.14	9.66	8.36	18.16	56.00	-37.84	QP
10		4.2242	0.14	9.66	3.47	13.27	46.00	-32.73	Average
11		12.8516	0.16	9.83	13.28	23.27	60.00	-36.73	QP
12		12.8516	0.16	9.83	8.10	18.09	50.00	-31.91	Average

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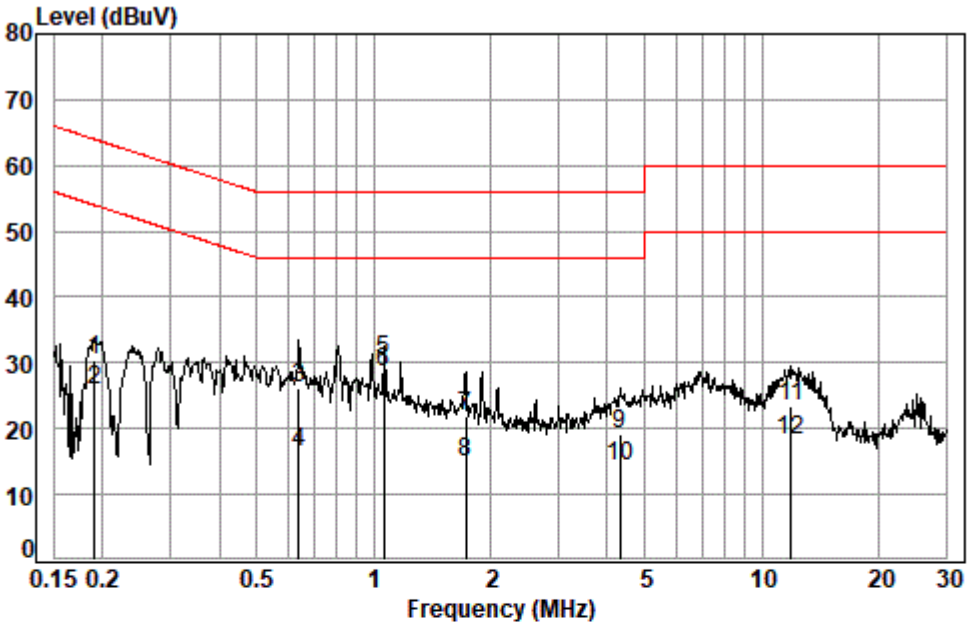
Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05646WM/05647WM
Test mode: 08

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1914	0.07	10.09	20.26	30.42	63.98	-33.56	QP
2		0.1914	0.07	10.09	15.79	25.95	53.98	-28.03	Average
3		0.6406	0.10	9.67	16.43	26.20	56.00	-29.80	QP
4		0.6406	0.10	9.67	6.59	16.36	46.00	-29.64	Average
5	*	1.0653	0.11	9.54	20.81	30.46	56.00	-25.54	QP
6	*	1.0653	0.11	9.54	18.81	28.46	46.00	-17.54	Average
7		1.7253	0.12	9.55	12.28	21.95	56.00	-34.05	QP
8		1.7253	0.12	9.55	5.37	15.04	46.00	-30.96	Average
9		4.3146	0.14	9.55	9.53	19.22	56.00	-36.78	QP
10		4.3146	0.14	9.55	4.50	14.19	46.00	-31.81	Average
11		11.9328	0.16	9.70	13.58	23.44	60.00	-36.56	QP
12		11.9328	0.16	9.70	8.47	18.33	50.00	-31.67	Average

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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.10.5
Measurement Distance: 3m
Test Engineer: Xing Guo

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.5 °C Humidity: 50.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE

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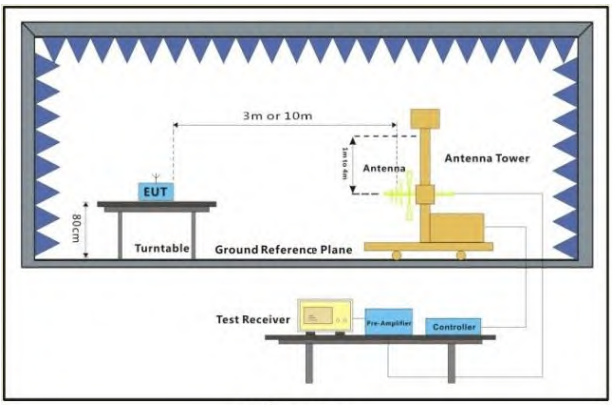
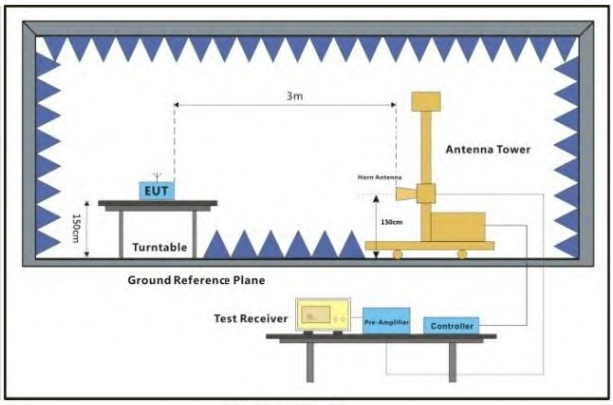
		802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



30MHz-1GHz



Above 1GHz

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7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 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+ Aux Factor (if applicable)

   The aux factor needs to be added for the frequency above 18GHz once a closer distance used.

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

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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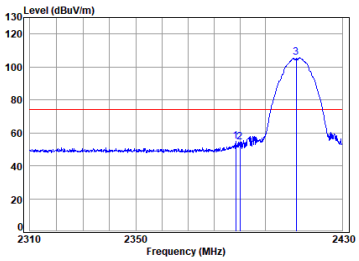
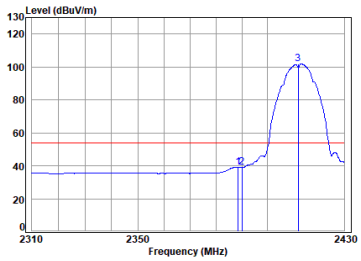
11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.395	6.82	27.68	30.60	50.90	54.80	74.00	-19.20	Peak	0.00
2	2390.000	6.83	27.68	30.60	50.61	54.52	74.00	-19.48	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60	101.51	105.54	74.00	31.54	Peak	0.00

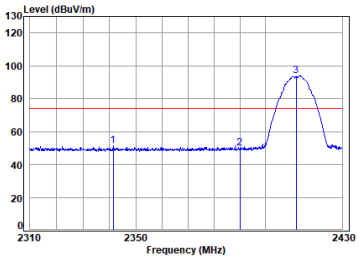
11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.637	6.82	27.68	30.60	35.29	39.19	54.00	-14.81	Average	0.00
2	2390.000	6.83	27.68	30.60	35.00	38.91	54.00	-15.09	Average	0.00
3 pp	2412.000	6.91	27.72	30.60	97.71	101.74	54.00	47.74	Average	0.00

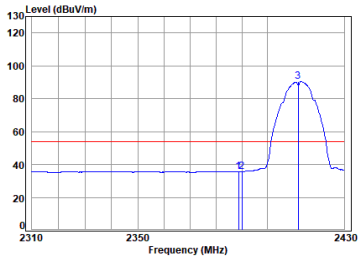
11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2341.448	6.80	27.60	30.60	47.71	51.51	74.00	-22.49	Peak	0.00
2	2390.000	6.83	27.68	30.60	45.88	49.79	74.00	-24.21	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60	89.98	94.01	74.00	20.01	Peak	0.00

11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.758	6.82	27.68	30.60	31.93	35.83	54.00	-18.17	Average	0.00
2	2390.000	6.83	27.68	30.60	31.84	35.75	54.00	-18.25	Average	0.00
3 pp	2412.000	6.91	27.72	30.60	86.34	90.37	54.00	36.37	Average	0.00

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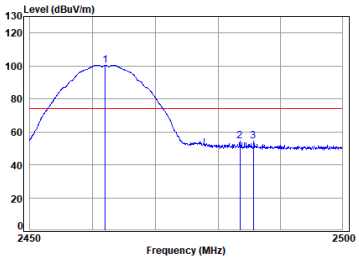
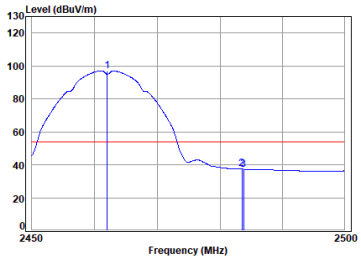
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	96.04	100.54	74.00	26.54	Peak	0.00
2	2483.500	7.40	27.93	30.60	49.49	54.22	74.00	-19.78	Peak	0.00
3	2485.697	7.41	27.94	30.60	49.41	54.16	74.00	-19.84	Peak	0.00

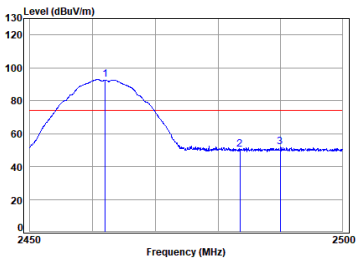
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	92.56	97.06	54.00	43.06	Average	0.00
2	2483.500	7.40	27.93	30.60	32.62	37.35	54.00	-16.65	Average	0.00
3	2483.790	7.40	27.94	30.60	32.58	37.32	54.00	-16.68	Average	0.00

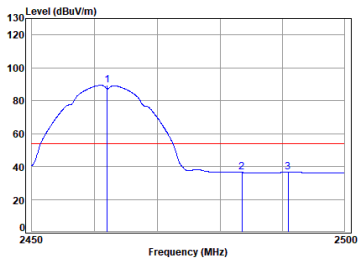
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	88.35	92.85	74.00	18.85	Peak	0.00
2	2483.500	7.40	27.93	30.60	45.53	50.26	74.00	-23.74	Peak	0.00
3	2490.020	7.44	27.96	30.60	47.14	51.94	74.00	-22.06	Peak	0.00

11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	84.90	89.40	54.00	35.40	Average	0.00
2	2483.500	7.40	27.93	30.60	31.64	36.37	54.00	-17.63	Average	0.00
3	2490.925	7.45	27.96	30.60	31.57	36.38	54.00	-17.62	Average	0.00

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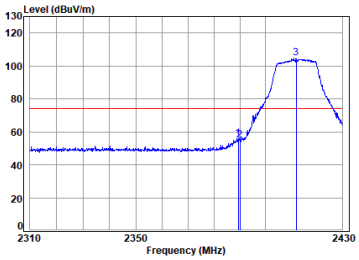
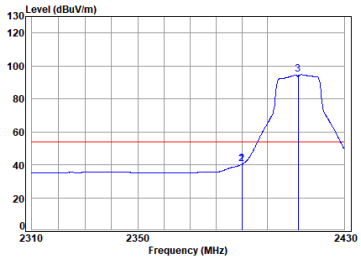
11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.363	6.82	27.68	30.60	52.03	55.93	74.00	-18.07	Peak	0.00
2	2390.000	6.83	27.68	30.60	50.84	54.75	74.00	-19.25	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60	100.62	104.65	74.00	30.65	Peak	0.00

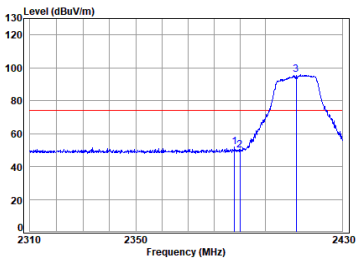
11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.968	6.83	27.68	30.60	36.41	40.32	54.00	-13.68	Average	0.00
2	2390.000	6.83	27.68	30.60	36.41	40.32	54.00	-13.68	Average	0.00
3 pp	2412.000	6.91	27.72	30.60	90.70	94.73	54.00	40.73	Average	0.00

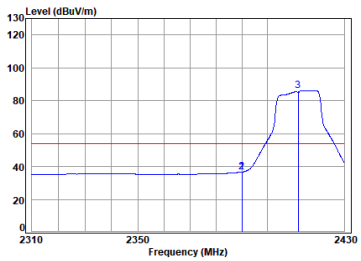
11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2387.912	6.82	27.68	30.60	47.95	51.85	74.00	-22.15	Peak	0.00
2	2390.000	6.83	27.68	30.60	46.22	50.13	74.00	-23.87	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60	91.69	95.72	74.00	21.72	Peak	0.00

11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.968	6.83	27.68	30.60	32.67	36.58	54.00	-17.42	Average	0.00
2	2390.000	6.83	27.68	30.60	32.67	36.58	54.00	-17.42	Average	0.00
3 pp	2412.000	6.91	27.72	30.60	82.16	86.19	54.00	32.19	Average	0.00

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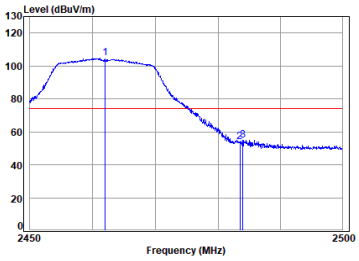
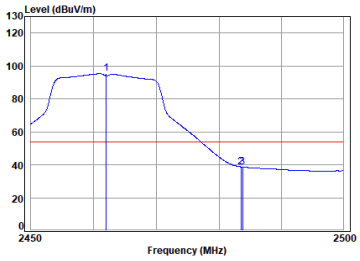


Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	100.11	104.61	74.00	30.61	Peak	0.00
2	2483.500	7.40	27.93	30.60	49.15	53.88	74.00	-20.12	Peak	0.00
3	2483.990	7.40	27.94	30.60	50.29	55.03	74.00	-18.97	Peak	0.00

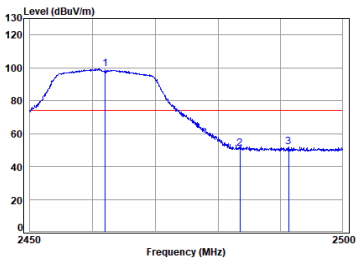
11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	90.75	95.25	54.00	41.25	Average	0.00
2	2483.500	7.40	27.93	30.60	34.03	38.76	54.00	-15.24	Average	0.00
3	2483.790	7.40	27.94	30.60	33.87	38.61	54.00	-15.39	Average	0.00

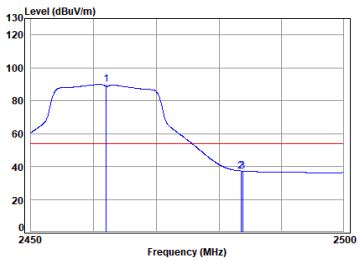
11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	94.71	99.21	74.00	25.21	Peak	0.00
2	2483.500	7.40	27.93	30.60	46.12	50.85	74.00	-23.15	Peak	0.00
3	2491.328	7.45	27.97	30.60	47.33	52.15	74.00	-21.85	Peak	0.00

11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	85.48	89.98	54.00	35.98	Average	0.00
2	2483.500	7.40	27.93	30.60	32.58	37.31	54.00	-16.69	Average	0.00
3	2483.790	7.40	27.94	30.60	32.48	37.22	54.00	-16.78	Average	0.00

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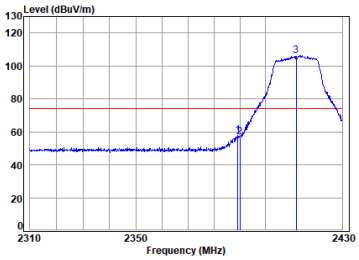
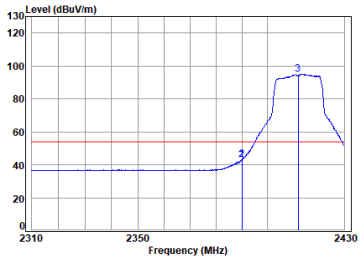
11n_HT(20M)_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.242	6.82	27.68	30.60	53.88	57.78	74.00	-16.22	Peak	0.00
2	2390.000	6.83	27.68	30.60	52.90	56.81	74.00	-17.19	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60	102.18	106.21	74.00	32.21	Peak	0.00

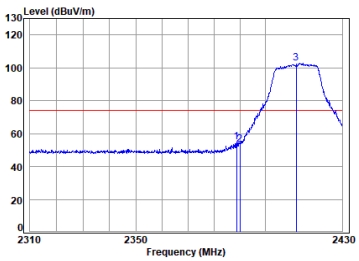
11n_HT(20M)_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.968	6.83	27.68	30.60	39.31	43.22	54.00	-10.78	Average	0.00
2	2390.000	6.83	27.68	30.60	39.31	43.22	54.00	-10.78	Average	0.00
3 pp	2412.000	6.91	27.72	30.60	91.08	95.11	54.00	41.11	Average	0.00

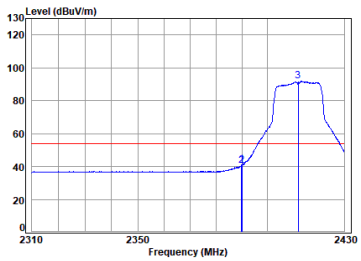
11n_HT(20M)_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.758	6.82	27.68	30.60	51.06	54.96	74.00	-19.04	Peak	0.00
2	2390.000	6.83	27.68	30.60	49.68	53.59	74.00	-20.41	Peak	0.00
3 pp	2412.000	6.91	27.72	30.60	98.73	102.76	74.00	28.76	Peak	0.00

11n_HT(20M)_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.847	6.83	27.68	30.60	36.87	40.78	54.00	-13.22	Average	0.00
2	2390.000	6.83	27.68	30.60	36.80	40.71	54.00	-13.29	Average	0.00
3 pp	2412.000	6.91	27.72	30.60	87.82	91.85	54.00	37.85	Average	0.00

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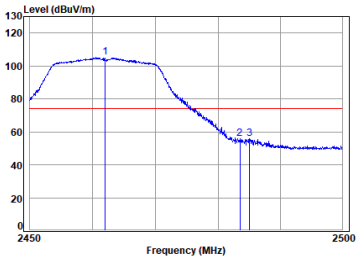
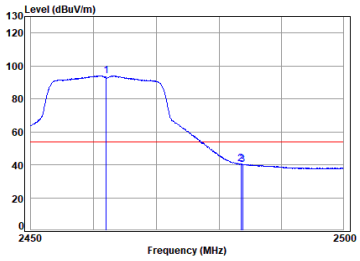
11n_HT(20M)_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	100.61	105.11	74.00	31.11	Peak	0.00
2	2483.500	7.40	27.93	30.60	51.05	55.78	74.00	-18.22	Peak	0.00
3	2485.095	7.41	27.94	30.60	50.96	55.71	74.00	-18.29	Peak	0.00

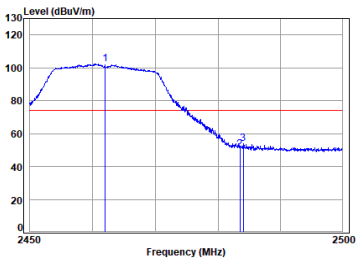
11n_HT(20M)_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	89.64	94.14	54.00	40.14	Average	0.00
2	2483.500	7.40	27.93	30.60	35.68	40.41	54.00	-13.59	Average	0.00
3	2483.790	7.40	27.94	30.60	35.51	40.25	54.00	-13.75	Average	0.00

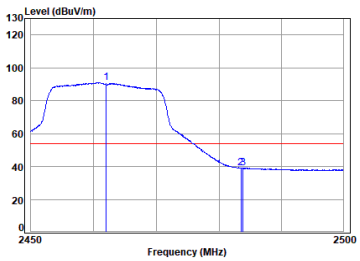
11n_HT(20M)_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	97.75	102.25	74.00	28.25	Peak	0.00
2	2483.500	7.40	27.93	30.60	45.88	50.61	74.00	-23.39	Peak	0.00
3	2484.041	7.40	27.94	30.60	49.36	54.10	74.00	-19.90	Peak	0.00

11n_HT(20M)_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 Band edge
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2462.000	7.25	27.85	30.60	86.58	91.08	54.00	37.08	Average	0.00
2	2483.500	7.40	27.93	30.60	34.33	39.06	54.00	-14.94	Average	0.00
3	2483.890	7.40	27.94	30.60	34.34	39.08	54.00	-14.92	Average	0.00

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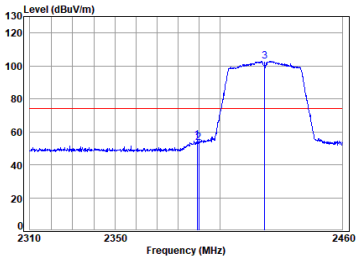
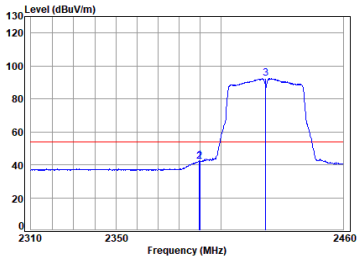
11n_HT(40M)_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.075	6.82	27.68	30.60	50.75	54.65	74.00	-19.35	Peak	0.00
2	2390.000	6.83	27.68	30.60	49.47	53.38	74.00	-20.62	Peak	0.00
3 pp	2422.000	6.98	27.74	30.60	98.76	102.88	74.00	28.88	Peak	0.00

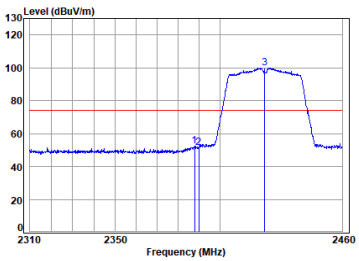
11n_HT(40M)_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.677	6.82	27.68	30.60	38.39	42.29	54.00	-11.71	Average	0.00
2	2390.000	6.83	27.68	30.60	38.01	41.92	54.00	-12.08	Average	0.00
3 pp	2422.000	6.98	27.74	30.60	88.43	92.55	54.00	38.55	Average	0.00

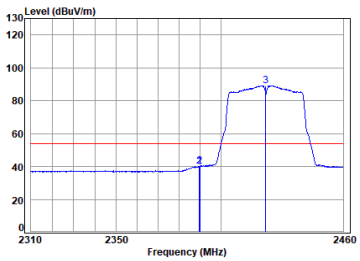
11n_HT(40M)_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2388.023	6.82	27.68	30.60	48.34	52.24	74.00	-21.76	Peak	0.00
2	2390.000	6.83	27.68	30.60	47.67	51.58	74.00	-22.42	Peak	0.00
3 pp	2422.000	6.98	27.74	30.60	95.61	99.73	74.00	25.73	Peak	0.00

11n_HT(40M)_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2422 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.827	6.83	27.68	30.60	36.21	40.12	54.00	-13.88	Average	0.00
2	2390.000	6.83	27.68	30.60	36.31	40.22	54.00	-13.78	Average	0.00
3 pp	2422.000	6.98	27.74	30.60	85.03	89.15	54.00	35.15	Average	0.00

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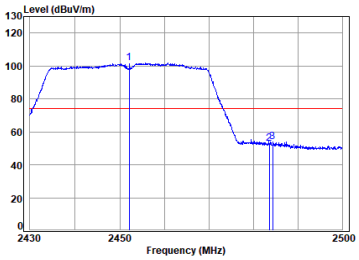
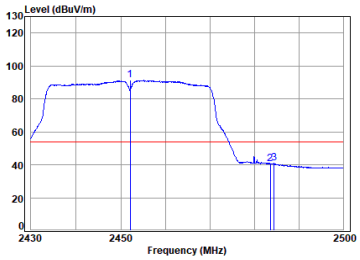
11n_HT(40M)_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2452.000	7.19	27.81	30.60	97.36	101.76	74.00	27.76	Peak	0.00
2	2483.500	7.40	27.93	30.60	47.95	52.68	74.00	-21.32	Peak	0.00
3	2484.288	7.40	27.94	30.60	48.99	53.73	74.00	-20.27	Peak	0.00

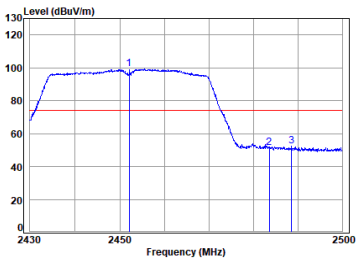
11n_HT(40M)_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2452.000	7.19	27.81	30.60	86.81	91.21	54.00	37.21	Average	0.00
2	2483.500	7.40	27.93	30.60	35.93	40.66	54.00	-13.34	Average	0.00
3	2484.358	7.41	27.94	30.60	36.07	40.82	54.00	-13.18	Average	0.00

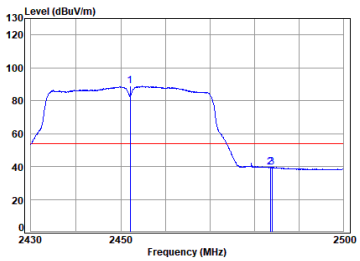
11n_HT(40M)_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2452.000	7.19	27.81	30.60	94.94	99.34	74.00	25.34	Peak	0.00
2	2483.500	7.40	27.93	30.60	46.73	51.46	74.00	-22.54	Peak	0.00
3	2488.525	7.43	27.95	30.60	47.52	52.30	74.00	-21.70	Peak	0.00

11n_HT(40M)_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2452 Band edge
: 2.4G Wi-Fi 11n40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2452.000	7.19	27.81	30.60	84.33	88.73	54.00	34.73	Average	0.00
2	2483.500	7.40	27.93	30.60	34.67	39.40	54.00	-14.60	Average	0.00
3	2483.865	7.40	27.94	30.60	34.78	39.52	54.00	-14.48	Average	0.00

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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.4,6.5
Test Engineer: Mason Wu

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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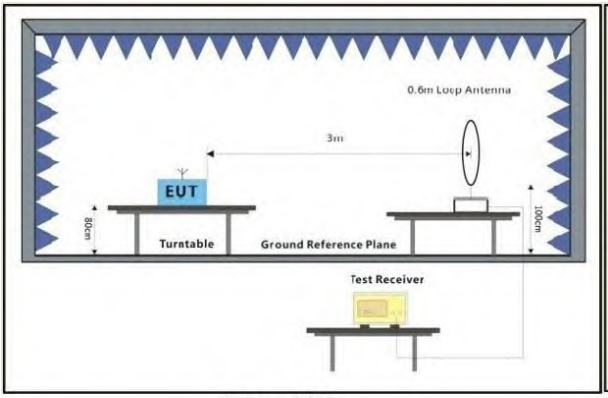
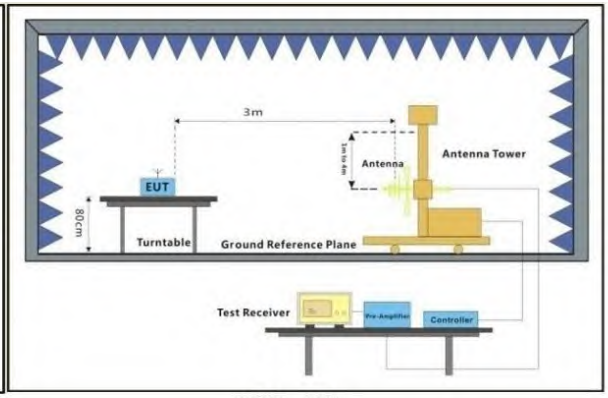
7.3.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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7.3.4 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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

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

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

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

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

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

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

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

Remark:

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

The aux factor needs to be added for the frequency below 30MHz once a closer distance used.

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

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

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

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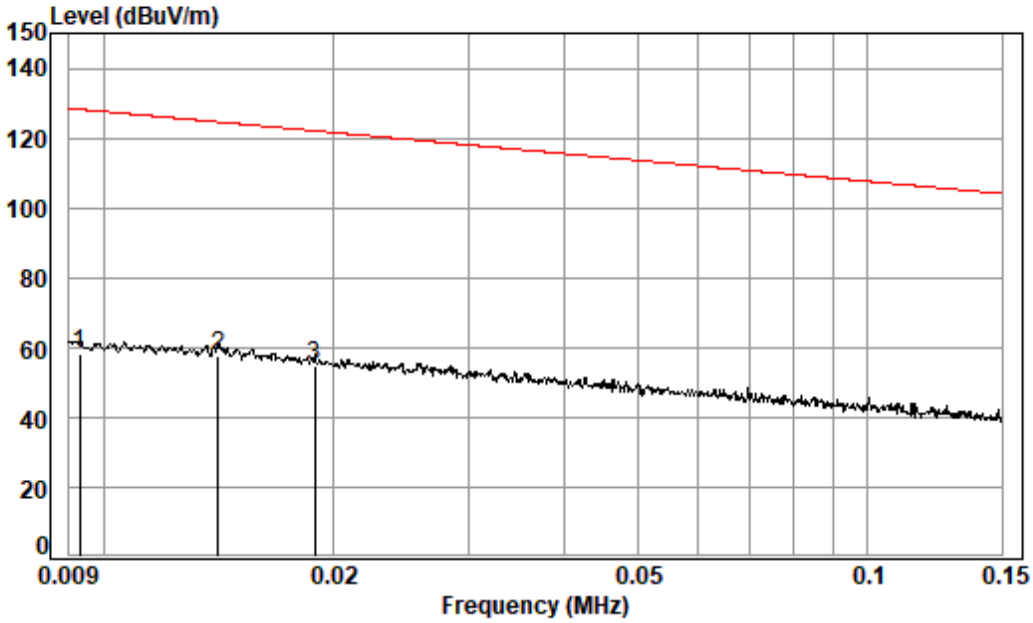
Test Mode: 08; Polarity: Coaxial



Condition: 3m
Job No. : 05646WM
Test Mode: 08
: coaxial

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	70.62	18.82	0.10	31.12	58.42	128.21	-69.79	Average
2 pp	0.014	72.48	16.37	0.11	31.42	57.54	124.59	-67.05	Average
3	0.019	72.23	14.23	0.11	31.62	54.95	122.05	-67.10	Average

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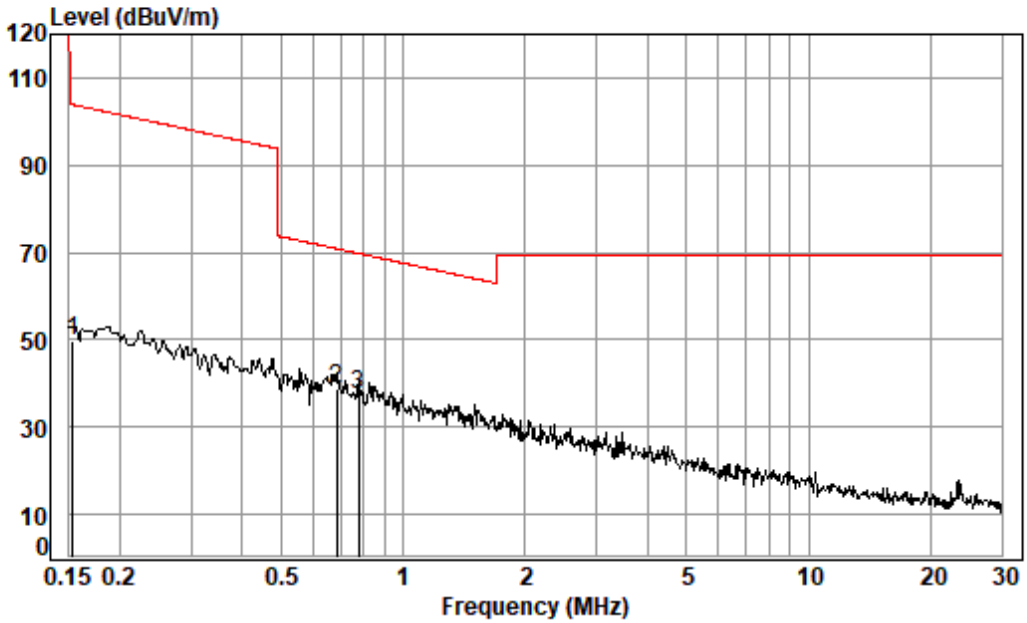

Condition: 3m
Job No. : 05646WM
Test Mode: 08
: coaxial

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 av	0.153	71.28	10.50	0.14	32.40	49.52	103.89	-54.37	Average
2 pp	0.686	60.62	10.35	0.32	32.55	38.74	70.86	-32.12	QP
3	0.775	59.38	10.35	0.33	32.56	37.50	69.79	-32.29	QP

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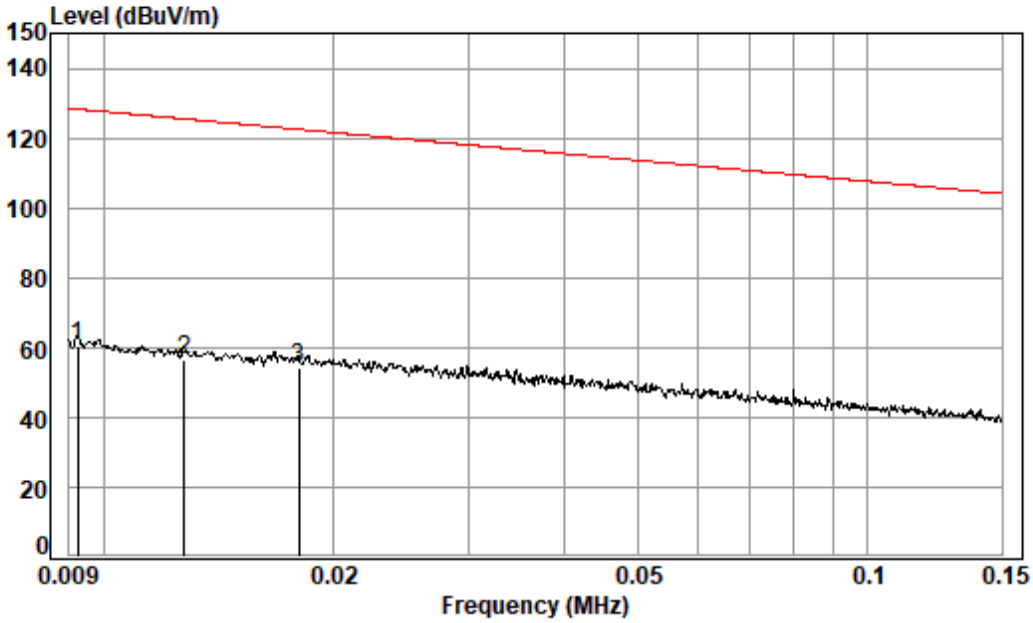
Test Mode: 08; Polarity: Coplanar



Condition: 3m
Job No. : 05646WM
Test Mode: 08
: coplanar

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	0.009	72.45	18.89	0.10	31.12	60.32	128.28	-67.96	Average
2	0.013	70.92	16.97	0.10	31.34	56.65	125.47	-68.82	Average
3	0.018	71.15	14.65	0.11	31.58	54.33	122.49	-68.16	Average

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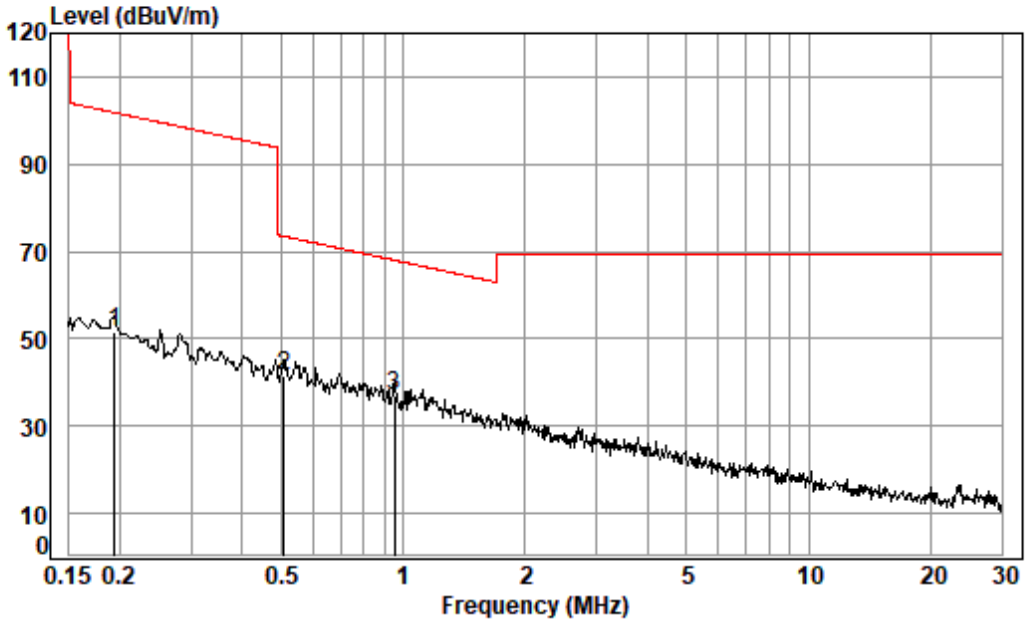

Condition: 3m
Job No. : 05646WM
Test Mode: 08
: coplanar

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 av	0.194	73.19	10.46	0.17	32.40	51.42	101.82	-50.40	Average
2	0.507	63.41	10.37	0.28	32.50	41.56	73.50	-31.94	QP
3 pp	0.953	58.86	10.35	0.35	32.59	36.97	67.98	-31.01	QP

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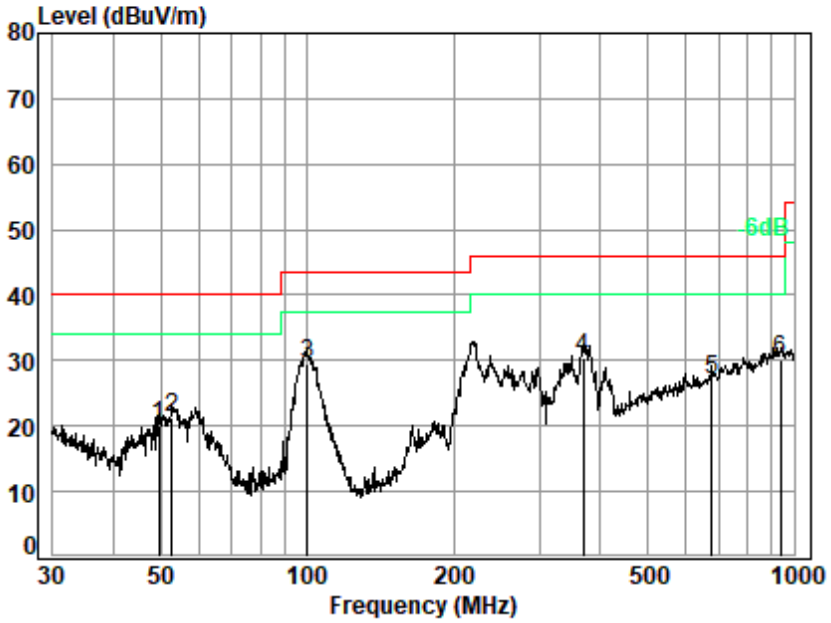
Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05646WM/05647WM
Test Mode: 08

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	49.533	12.87	0.90	27.63	33.90	20.04	40.00	-19.96	QP
2	52.760	12.33	0.91	27.63	35.60	21.21	40.00	-18.79	QP
3 q	100.229	12.31	1.22	27.60	43.64	29.57	43.50	-13.93	QP
4	369.405	20.41	2.38	27.68	35.43	30.54	46.00	-15.46	QP
5	677.580	25.78	3.34	27.89	25.83	27.06	46.00	-18.94	QP
6	938.833	28.15	4.06	26.74	24.52	29.99	46.00	-16.01	QP

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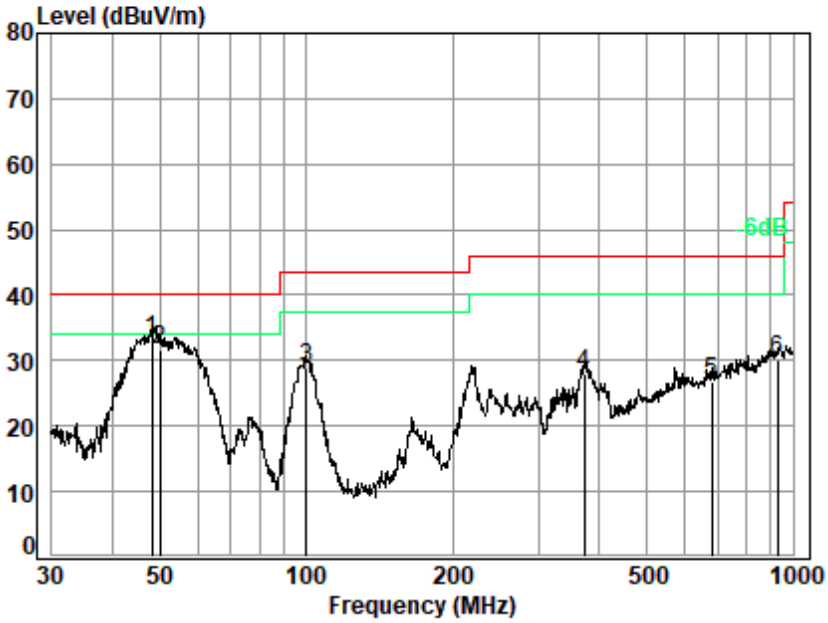
Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05646WM/05647WM
Test Mode: 08

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	48.163	13.25	0.89	27.63	46.68	33.19	40.00	-6.81	QP
2	50.057	12.75	0.90	27.63	45.70	31.72	40.00	-8.28	QP
3	99.878	12.29	1.22	27.60	42.88	28.79	43.50	-14.71	QP
4	372.005	20.54	2.39	27.69	32.63	27.87	46.00	-18.13	QP
5	682.348	25.80	3.36	27.88	25.63	26.91	46.00	-19.09	QP
6	929.008	28.16	4.04	26.80	24.67	30.07	46.00	-15.93	QP

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检验检测专用章
Inspection & Testing Services
SGS-CSTC Standards Technical Services Co.,Ltd. Shenzhen Branch Testing Center LLC Laboratory.

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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.6
Test Engineer: Xing Guo

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

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

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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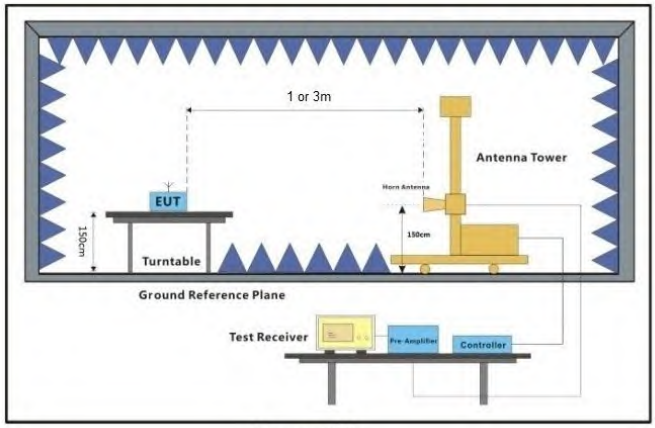
7.4.3 Test Setup Diagram



Above 1GHz

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7.4.4 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. The EUT was set 3 meters away from the interference-receiving antenna from 1GHz to 18GHz, and 1 meter away from the interference-receiving antenna above 18GHz.

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

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

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

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

Remark:

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

The aux factor needs to be added for the frequency above 18GHz once a closer distance used.

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

2. Scan from 18GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.

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

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

5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

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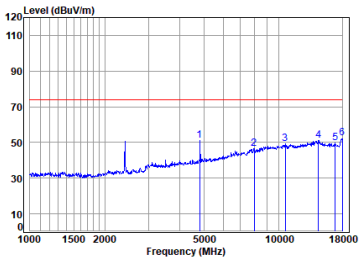
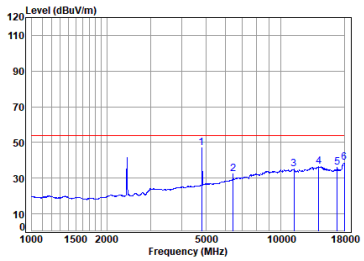
11b_TX_CH_01_Horizontal-Peak




```
Condition: 3m HORIZONTAL
Job No    : 05646WM/05647WM
Mode      : 2412 TX RSE
          : 2.4G Wi-Fi 11b
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4818.016	8.92	32.67	55.93	65.45	51.11	74.00	-22.89	Peak	0.00
2	7966.832	11.47	37.27	55.92	53.89	46.71	74.00	-27.29	Peak	0.00
3	10636.850	13.44	39.30	53.54	50.05	49.25	74.00	-24.75	Peak	0.00
4	14450.130	16.62	40.30	54.10	48.41	51.23	74.00	-22.77	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.15	49.51	74.00	-24.49	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.44	52.38	74.00	-21.62	Peak	0.00

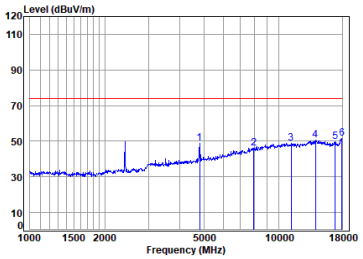
11b_TX_CH_01_Horizontal-Avg




```
Condition: 3m HORIZONTAL
Job No    : 05646WM/05647WM
Mode      : 2412 TX RSE
          : 2.4G Wi-Fi 11b
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 4818.016	8.92	32.67	55.93	61.25	46.91	54.00	-7.09	Average	0.00
2	6432.732	10.56	34.93	56.55	43.54	32.48	54.00	-21.52	Average	0.00
3	11302.480	14.39	39.40	53.41	34.63	35.01	54.00	-18.99	Average	0.00
4	14242.800	16.83	40.46	54.10	33.44	36.63	54.00	-17.37	Average	0.00
5	16891.040	19.64	38.60	53.88	31.64	36.00	54.00	-18.00	Average	0.00
6	18000.000	18.64	42.60	54.30	31.91	38.85	54.00	-15.15	Average	0.00

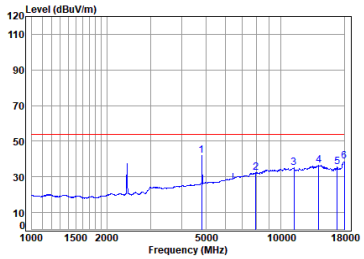
11b_TX_CH_01_Vertical-Peak




```
Condition: 3m VERTICAL
Job No    : 05646WM/05647WM
Mode      : 2412 TX RSE
          : 2.4G Wi-Fi 11b
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4818.016	8.92	32.67	55.93	63.23	48.89	74.00	-25.11	Peak	0.00
2	7943.838	11.48	37.30	55.93	53.42	46.27	74.00	-27.73	Peak	0.00
3	11204.900	14.25	39.50	53.44	48.64	48.95	74.00	-25.05	Peak	0.00
4	14038.450	16.47	40.52	54.10	47.94	50.83	74.00	-23.17	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.53	49.89	74.00	-24.11	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	44.87	51.63	74.00	-22.37	Peak	0.00

11b_TX_CH_01_Vertical-Avg




```
Condition: 3m VERTICAL
Job No    : 05646WM/05647WM
Mode      : 2412 TX RSE
          : 2.4G Wi-Fi 11b
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 4818.016	8.92	32.67	55.93	56.19	41.85	54.00	-12.15	Average	0.00
2	7943.838	11.48	37.30	55.93	39.49	32.34	54.00	-21.66	Average	0.00
3	11302.480	14.39	39.40	53.41	34.54	34.92	54.00	-19.08	Average	0.00
4	14242.800	16.83	40.46	54.10	33.25	36.44	54.00	-17.56	Average	0.00
5	16891.040	19.64	38.60	53.88	31.36	35.72	54.00	-18.28	Average	0.00
6	18000.000	18.64	42.60	54.30	31.81	38.75	54.00	-15.25	Average	0.00

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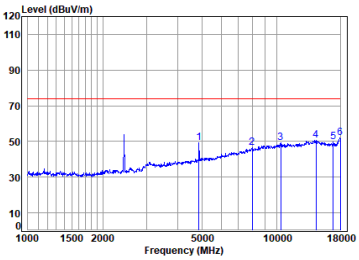
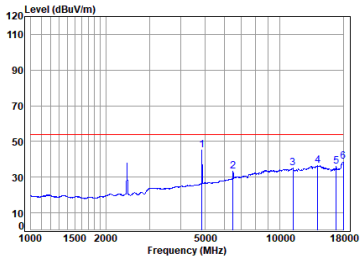
11b_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4874.043	8.97	32.85	55.99	63.62	49.45	74.00	-24.55	Peak	0.00
2	7966.832	11.47	37.27	55.92	53.54	46.36	74.00	-27.64	Peak	0.00
3	10393.710	13.50	39.20	53.56	49.97	49.11	74.00	-24.89	Peak	0.00
4	14366.840	16.99	40.40	54.10	47.36	50.65	74.00	-23.35	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.23	49.59	74.00	-24.41	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.20	52.14	74.00	-21.86	Peak	0.00

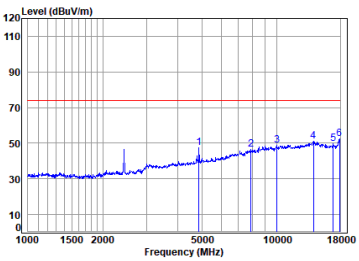
11b_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 4874.043	8.97	32.85	55.99	59.51	45.34	54.00	-8.66	Average	0.00
2	6488.754	10.64	35.23	56.55	43.83	33.15	54.00	-20.85	Average	0.00
3	11302.480	14.39	39.40	53.41	34.63	35.01	54.00	-18.99	Average	0.00
4	14242.800	16.83	40.46	54.10	33.14	36.33	54.00	-17.67	Average	0.00
5	16891.040	19.64	38.60	53.88	31.52	35.88	54.00	-18.12	Average	0.00
6	18000.000	18.64	42.60	54.30	31.75	38.69	54.00	-15.31	Average	0.00

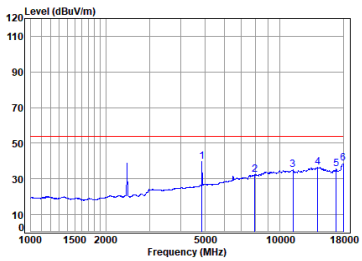
11b_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4874.043	8.97	32.85	55.99	61.50	47.33	74.00	-26.67	Peak	0.00
2	7875.254	11.42	37.20	55.97	53.95	46.60	74.00	-27.40	Peak	0.00
3	10010.420	12.90	38.90	53.60	50.80	49.00	74.00	-25.00	Peak	0.00
4	14038.450	16.47	40.52	54.10	48.01	50.90	74.00	-23.10	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.22	49.58	74.00	-24.42	Peak	0.00
6	pp17896.250	18.87	41.97	54.26	45.95	52.53	74.00	-21.47	Peak	0.00

11b_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 4874.043	8.97	32.85	55.99	53.94	39.77	54.00	-14.23	Average	0.00
2	7943.838	11.48	37.30	55.93	39.54	32.39	54.00	-21.61	Average	0.00
3	11302.480	14.39	39.40	53.41	34.57	34.95	54.00	-19.05	Average	0.00
4	14242.800	16.83	40.46	54.10	33.29	36.48	54.00	-17.52	Average	0.00
5	16891.040	19.64	38.60	53.88	31.37	35.73	54.00	-18.27	Average	0.00
6	18000.000	18.64	42.60	54.30	31.70	38.64	54.00	-15.36	Average	0.00

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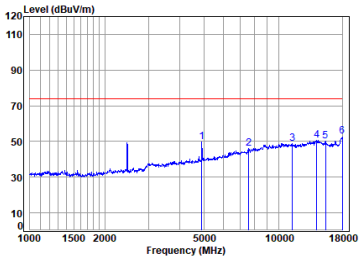
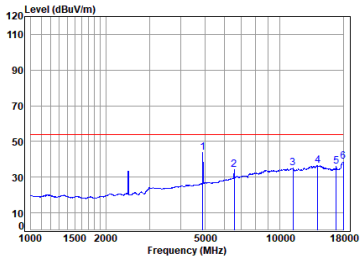
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4916.490	9.02	32.97	56.02	63.68	49.65	74.00	-24.35	Peak	0.00
2	7584.833	11.00	36.74	56.14	54.43	46.03	74.00	-27.97	Peak	0.00
3	11335.190	14.29	39.36	53.40	48.58	48.83	74.00	-25.17	Peak	0.00
4	14201.690	16.67	40.50	54.10	47.58	50.65	74.00	-23.35	Peak	0.00
5	15443.410	16.96	38.96	53.92	48.30	50.30	74.00	-23.70	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.90	52.84	74.00	-21.16	Peak	0.00

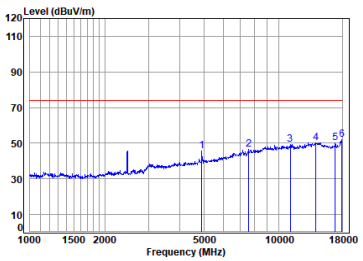
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 4916.490	9.02	32.97	56.02	57.90	43.87	54.00	-10.13	Average	0.00
2	6564.209	10.80	35.63	56.54	44.39	34.28	54.00	-19.72	Average	0.00
3	11302.480	14.39	39.40	53.41	34.67	35.05	54.00	-18.95	Average	0.00
4	14242.800	16.83	40.46	54.10	33.38	36.57	54.00	-17.43	Average	0.00
5	16891.040	19.64	38.60	53.88	31.51	35.87	54.00	-18.13	Average	0.00
6	18000.000	18.64	42.60	54.30	31.78	38.72	54.00	-15.28	Average	0.00

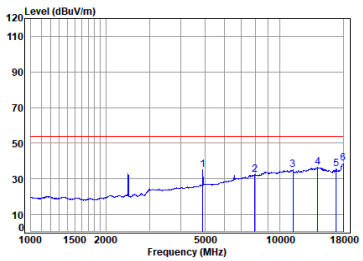
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4916.490	9.02	32.97	56.02	59.64	45.61	74.00	-28.39	Peak	0.00
2	7584.833	11.00	36.74	56.14	55.02	46.62	74.00	-27.38	Peak	0.00
3	11140.310	14.17	39.38	53.46	49.12	49.21	74.00	-24.79	Peak	0.00
4	14119.830	16.40	40.42	54.10	47.58	50.30	74.00	-23.70	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.67	50.03	74.00	-23.97	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.15	51.91	74.00	-22.09	Peak	0.00

11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4916.490	9.02	32.97	56.02	49.22	35.19	54.00	-18.81	Average	0.00
2	7943.838	11.48	37.30	55.93	39.59	32.44	54.00	-21.56	Average	0.00
3	11302.480	14.39	39.40	53.41	34.60	34.98	54.00	-19.02	Average	0.00
4	14242.800	16.83	40.46	54.10	33.26	36.45	54.00	-17.55	Average	0.00
5	16891.040	19.64	38.60	53.88	31.42	35.78	54.00	-18.22	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.68	38.62	54.00	-15.38	Average	0.00

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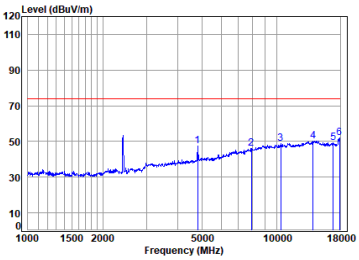
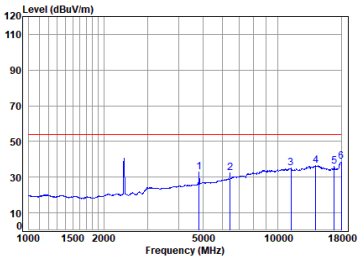
11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4818.016	8.92	32.67	55.93	61.96	47.62	74.00	-26.38	Peak	0.00
2	7920.911	11.48	37.30	55.94	53.28	46.12	74.00	-27.88	Peak	0.00
3	10393.710	13.50	39.20	53.56	49.78	48.92	74.00	-25.08	Peak	0.00
4	13997.930	16.53	40.59	54.10	47.22	50.24	74.00	-23.76	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.03	49.39	74.00	-24.61	Peak	0.00
6	pp17896.250	18.87	41.97	54.26	45.66	52.24	74.00	-21.76	Peak	0.00

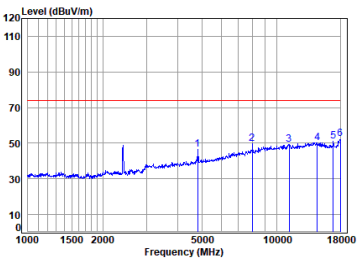
11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4831.962	8.93	32.73	55.95	47.19	32.90	54.00	-21.10	Average	0.00
2	6432.732	10.56	34.93	56.55	43.62	32.56	54.00	-21.44	Average	0.00
3	11302.480	14.39	39.40	53.41	34.65	35.03	54.00	-18.97	Average	0.00
4	14242.800	16.83	40.46	54.10	33.27	36.46	54.00	-17.54	Average	0.00
5	16891.040	19.64	38.60	53.88	31.58	35.94	54.00	-18.06	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.64	38.58	54.00	-15.42	Average	0.00

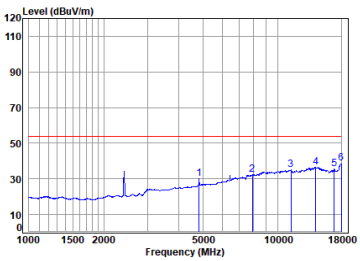
11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4818.016	8.92	32.67	55.93	60.83	46.49	74.00	-27.51	Peak	0.00
2	7989.893	11.46	37.22	55.91	57.13	49.90	74.00	-24.10	Peak	0.00
3	11237.330	14.30	39.46	53.43	48.95	49.28	74.00	-24.72	Peak	0.00
4	14533.910	16.36	40.20	54.10	47.87	50.33	74.00	-23.67	Peak	0.00
5	16891.040	19.64	38.60	53.88	46.52	50.88	74.00	-23.12	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.57	52.51	74.00	-21.49	Peak	0.00

11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4831.962	8.93	32.73	55.95	44.18	29.89	54.00	-24.11	Average	0.00
2	7920.911	11.48	37.30	55.94	39.60	32.44	54.00	-21.56	Average	0.00
3	11302.480	14.39	39.40	53.41	34.71	35.09	54.00	-18.91	Average	0.00
4	14242.800	16.83	40.46	54.10	33.28	36.47	54.00	-17.53	Average	0.00
5	16891.040	19.64	38.60	53.88	31.41	35.77	54.00	-18.23	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.72	38.66	54.00	-15.34	Average	0.00

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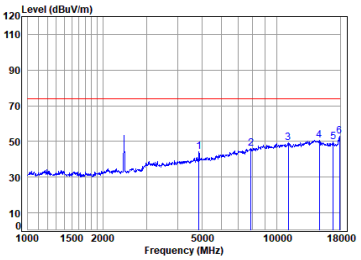
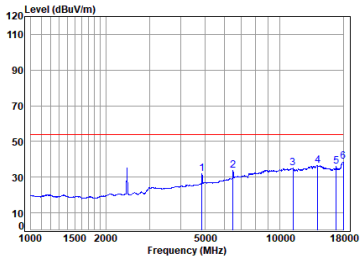
11g_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4874.043	8.97	32.85	55.99	58.59	44.42	74.00	-29.58	Peak	0.00
2	7875.254	11.42	37.20	55.97	53.21	45.86	74.00	-28.14	Peak	0.00
3	11140.310	14.17	39.38	53.46	49.30	49.39	74.00	-24.61	Peak	0.00
4	14873.890	16.94	39.88	54.10	47.78	50.50	74.00	-23.50	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.39	49.75	74.00	-24.25	Peak	0.00
6	pp17896.250	18.87	41.97	54.26	46.30	52.88	74.00	-21.12	Peak	0.00

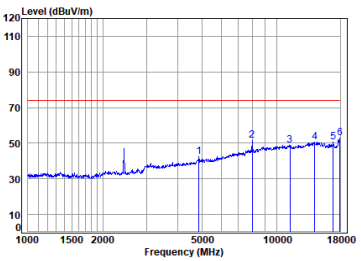
11g_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4874.043	8.97	32.85	55.99	46.04	31.87	54.00	-22.13	Average	0.00
2	6488.754	10.64	35.23	56.55	44.35	33.67	54.00	-20.33	Average	0.00
3	11302.480	14.39	39.40	53.41	34.74	35.12	54.00	-18.88	Average	0.00
4	14242.800	16.83	40.46	54.10	33.40	36.59	54.00	-17.41	Average	0.00
5	16891.040	19.64	38.60	53.88	31.67	36.03	54.00	-17.97	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.86	38.80	54.00	-15.20	Average	0.00

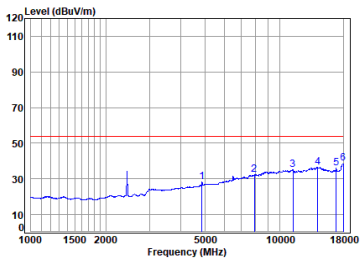
11g_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4874.043	8.97	32.85	55.99	56.78	42.61	74.00	-31.39	Peak	0.00
2	7989.893	11.46	37.22	55.91	58.72	51.49	74.00	-22.51	Peak	0.00
3	11302.480	14.39	39.40	53.41	48.47	48.85	74.00	-25.15	Peak	0.00
4	14201.690	16.67	40.50	54.10	47.59	50.66	74.00	-23.34	Peak	0.00
5	16891.040	19.64	38.60	53.88	46.27	50.63	74.00	-23.37	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	46.10	52.86	74.00	-21.14	Peak	0.00

11g_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4874.043	8.97	32.85	55.99	42.56	28.39	54.00	-25.61	Average	0.00
2	7920.911	11.48	37.30	55.94	39.60	32.44	54.00	-21.56	Average	0.00
3	11302.480	14.39	39.40	53.41	34.76	35.14	54.00	-18.86	Average	0.00
4	14242.800	16.83	40.46	54.10	33.25	36.44	54.00	-17.56	Average	0.00
5	16891.040	19.64	38.60	53.88	31.58	35.94	54.00	-18.06	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.69	38.63	54.00	-15.37	Average	0.00

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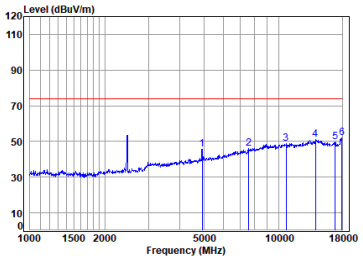
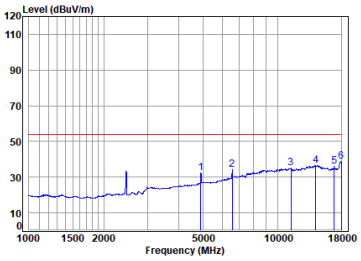
11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4930.721	9.03	33.02	56.04	59.78	45.79	74.00	-28.21	Peak	0.00
2	7584.833	11.00	36.74	56.14	54.52	46.12	74.00	-27.88	Peak	0.00
3	10729.480	13.53	39.33	53.53	49.70	49.03	74.00	-24.97	Peak	0.00
4	14079.080	16.38	40.44	54.10	48.24	50.96	74.00	-23.04	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.44	49.80	74.00	-24.20	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.44	52.20	74.00	-21.80	Peak	0.00

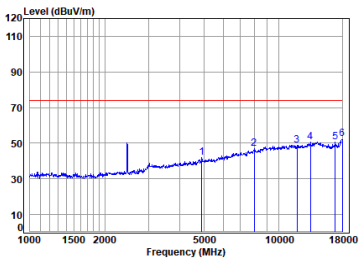
11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4916.490	9.02	32.97	56.02	46.29	32.26	54.00	-21.74	Average	0.00
2	6564.209	10.80	35.63	56.54	44.14	34.03	54.00	-19.97	Average	0.00
3	11302.480	14.39	39.40	53.41	34.83	35.21	54.00	-18.79	Average	0.00
4	14242.800	16.83	40.46	54.10	33.40	36.59	54.00	-17.41	Average	0.00
5	16891.040	19.64	38.60	53.88	31.66	36.02	54.00	-17.98	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.81	38.75	54.00	-15.25	Average	0.00

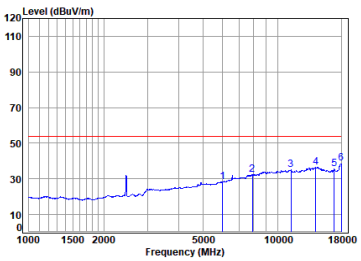
11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4916.490	9.02	32.97	56.02	56.15	42.12	74.00	-31.88	Peak	0.00
2	7989.893	11.46	37.22	55.91	54.32	47.09	74.00	-26.91	Peak	0.00
3	11837.450	14.61	39.06	53.25	48.60	49.02	74.00	-24.98	Peak	0.00
4	13442.810	15.58	40.54	53.94	48.45	50.63	74.00	-23.37	Peak	0.00
5	16891.040	19.64	38.60	53.88	46.16	50.52	74.00	-23.48	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.37	52.31	74.00	-21.69	Peak	0.00

11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	6001.626	10.05	34.40	56.60	40.45	28.30	54.00	-25.70	Average	0.00
2	7920.911	11.48	37.30	55.94	39.54	32.38	54.00	-21.62	Average	0.00
3	11302.480	14.39	39.40	53.41	34.78	35.16	54.00	-18.84	Average	0.00
4	14242.800	16.83	40.46	54.10	33.26	36.45	54.00	-17.55	Average	0.00
5	16891.040	19.64	38.60	53.88	31.42	35.78	54.00	-18.22	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.74	38.68	54.00	-15.32	Average	0.00

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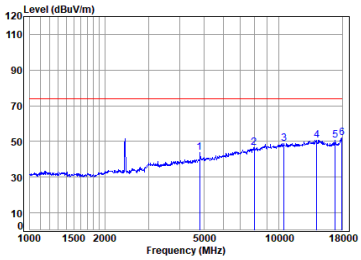
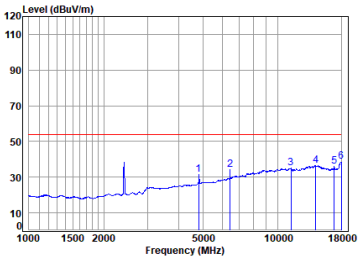
11n_20M_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4818.016	8.92	32.67	55.93	58.22	43.88	74.00	-30.12	Peak	0.00
2	7966.832	11.47	37.27	55.92	53.94	46.76	74.00	-27.24	Peak	0.00
3	10514.580	13.30	39.30	53.55	49.85	48.90	74.00	-25.10	Peak	0.00
4	14242.800	16.83	40.46	54.10	47.53	50.72	74.00	-23.28	Peak	0.00
5	16891.040	19.64	38.60	53.88	46.33	50.69	74.00	-23.31	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.34	52.10	74.00	-21.90	Peak	0.00

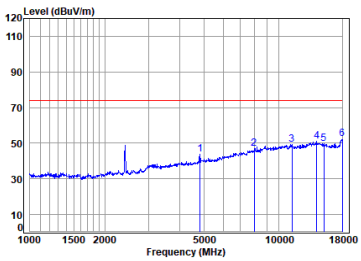
11n_20M_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4818.016	8.92	32.67	55.93	45.62	31.28	54.00	-22.72	Average	0.00
2	6432.732	10.56	34.93	56.55	45.42	34.36	54.00	-19.64	Average	0.00
3	11302.480	14.39	39.40	53.41	34.79	35.17	54.00	-18.83	Average	0.00
4	14242.800	16.83	40.46	54.10	33.30	36.49	54.00	-17.51	Average	0.00
5	16891.040	19.64	38.60	53.88	31.59	35.95	54.00	-18.05	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.78	38.72	54.00	-15.28	Average	0.00

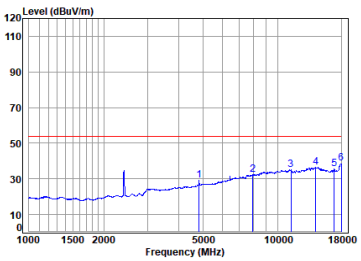
11n_20M_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4831.962	8.93	32.73	55.95	58.10	43.81	74.00	-30.19	Peak	0.00
2	7989.893	11.46	37.22	55.91	54.23	47.00	74.00	-27.00	Peak	0.00
3	11302.480	14.39	39.40	53.41	49.04	49.42	74.00	-24.58	Peak	0.00
4	14201.690	16.67	40.50	54.10	47.94	51.01	74.00	-22.99	Peak	0.00
5	15177.890	16.98	39.32	54.03	47.34	49.61	74.00	-24.39	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	45.68	52.62	74.00	-21.38	Peak	0.00

11n_20M_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4831.962	8.93	32.73	55.95	43.58	29.29	54.00	-24.71	Average	0.00
2	7943.838	11.48	37.30	55.93	39.66	32.51	54.00	-21.49	Average	0.00
3	11302.480	14.39	39.40	53.41	34.86	35.24	54.00	-18.76	Average	0.00
4	14242.800	16.83	40.46	54.10	33.31	36.50	54.00	-17.50	Average	0.00
5	16891.040	19.64	38.60	53.88	31.44	35.80	54.00	-18.20	Average	0.00
6	pp18000.000	18.64	42.60	54.30	31.76	38.70	54.00	-15.30	Average	0.00

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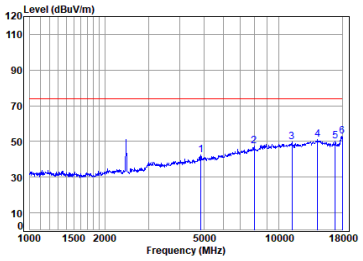
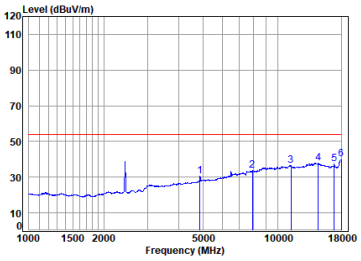
11n_20M_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4874.043	8.97	32.85	55.99	56.66	42.49	74.00	-31.51	Peak	0.00
2	7966.832	11.47	37.27	55.92	54.53	47.35	74.00	-26.65	Peak	0.00
3	11302.480	14.39	39.40	53.41	49.39	49.77	74.00	-24.23	Peak	0.00
4	14325.370	17.03	40.40	54.10	47.76	51.09	74.00	-22.91	Peak	0.00
5	16891.040	19.64	38.60	53.88	45.85	50.21	74.00	-23.79	Peak	0.00
6	pp18000.000	18.64	42.60	54.30	46.09	53.03	74.00	-20.97	Peak	0.00

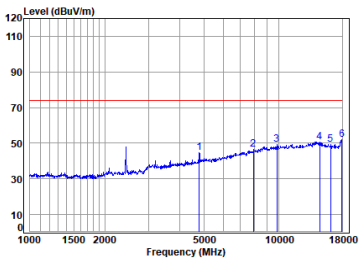
11n_20M_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4874.043	8.97	32.85	55.99	44.95	30.78	54.00	-23.22	Average	0.00
2	7920.911	11.48	37.30	55.94	40.94	33.78	54.00	-20.22	Average	0.00
3	11302.480	14.39	39.40	53.41	36.29	36.67	54.00	-17.33	Average	0.00
4	14533.910	16.36	40.20	54.10	35.44	37.90	54.00	-16.10	Average	0.00
5	16891.040	19.64	38.60	53.88	33.23	37.59	54.00	-16.41	Average	0.00
6	pp18000.000	18.64	42.60	54.30	33.16	40.10	54.00	-13.90	Average	0.00

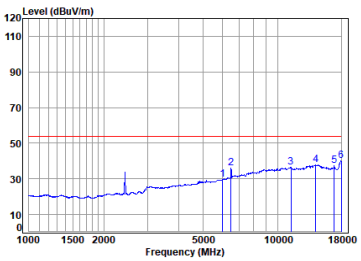
11n_20M_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4790.245	8.89	32.56	55.91	59.28	44.82	74.00	-29.18	Peak	0.00
2	7920.911	11.48	37.30	55.94	53.77	46.61	74.00	-27.39	Peak	0.00
3	9838.312	12.87	38.50	53.77	51.82	49.42	74.00	-24.58	Peak	0.00
4	14618.170	16.62	40.20	54.10	47.83	50.55	74.00	-23.45	Peak	0.00
5	16174.370	17.28	37.90	53.74	47.84	49.28	74.00	-24.72	Peak	0.00
6	pp17948.050	18.75	42.29	54.28	45.42	52.18	74.00	-21.82	Peak	0.00

11n_20M_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	6001.626	10.05	34.40	56.60	41.88	29.73	54.00	-24.27	Average	0.00
2	6488.754	10.64	35.23	56.55	46.51	35.83	54.00	-18.17	Average	0.00
3	11302.480	14.39	39.40	53.41	36.20	36.58	54.00	-17.42	Average	0.00
4	14242.800	16.83	40.46	54.10	34.73	37.92	54.00	-16.08	Average	0.00
5	16891.040	19.64	38.60	53.88	33.18	37.54	54.00	-16.46	Average	0.00
6	pp18000.000	18.64	42.60	54.30	33.28	40.22	54.00	-13.78	Average	0.00

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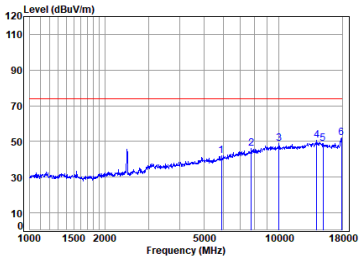
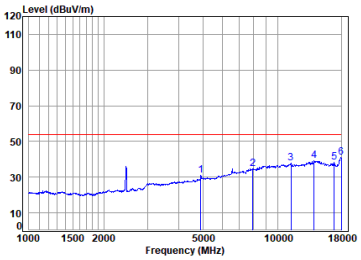
11n_20M_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5898.442	9.98	34.30	56.55	54.45	42.18	74.00	-31.82	Peak	0.00
2	7762.260	11.22	37.00	56.04	53.85	46.03	74.00	-27.97	Peak	0.00
3	10039.390	12.91	38.90	53.60	50.48	48.69	74.00	-25.31	Peak	0.00
4	14201.690	16.67	40.50	54.10	47.40	50.47	74.00	-23.53	Peak	0.00
5	15090.400	16.73	39.41	54.06	46.59	48.67	74.00	-25.33	Peak	0.00
6	pp17896.250	18.87	41.97	54.26	45.39	51.97	74.00	-22.03	Peak	0.00

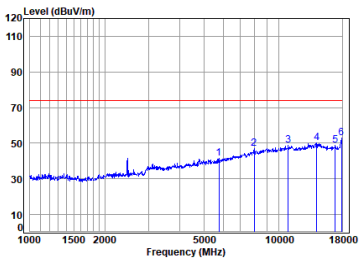
11n_20M_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4916.490	9.02	32.97	56.02	45.25	31.22	54.00	-22.78	Average	0.00
2	7943.838	11.48	37.30	55.93	41.91	34.76	54.00	-19.24	Average	0.00
3	11302.480	14.39	39.40	53.41	37.32	37.70	54.00	-16.30	Average	0.00
4	13997.930	16.53	40.59	54.10	36.05	39.07	54.00	-14.93	Average	0.00
5	16891.040	19.64	38.60	53.88	34.19	38.55	54.00	-15.45	Average	0.00
6	pp18000.000	18.64	42.60	54.30	34.02	40.96	54.00	-13.04	Average	0.00

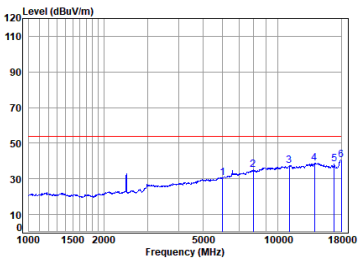
11n_20M_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5746.982	9.95	33.79	56.48	54.20	41.46	74.00	-32.54	Peak	0.00
2	7966.832	11.47	37.27	55.92	54.32	47.14	74.00	-26.86	Peak	0.00
3	10917.180	13.71	39.47	53.51	48.93	48.60	74.00	-25.40	Peak	0.00
4	14242.800	16.83	40.46	54.10	46.81	50.00	74.00	-24.00	Peak	0.00
5	16891.040	19.64	38.60	53.88	44.43	48.79	74.00	-25.21	Peak	0.00
6	pp17896.250	18.87	41.97	54.26	46.46	53.04	74.00	-20.96	Peak	0.00

11n_20M_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	6001.626	10.05	34.40	56.60	42.87	30.72	54.00	-23.28	Average	0.00
2	7966.832	11.47	37.27	55.92	42.10	34.92	54.00	-19.08	Average	0.00
3	11140.310	14.17	39.38	53.46	37.53	37.62	54.00	-16.38	Average	0.00
4	14038.450	16.47	40.52	54.10	35.97	38.86	54.00	-15.14	Average	0.00
5	16891.040	19.64	38.60	53.88	34.15	38.51	54.00	-15.49	Average	0.00
6	pp18000.000	18.64	42.60	54.30	33.89	40.83	54.00	-13.17	Average	0.00

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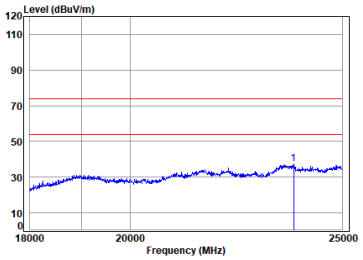
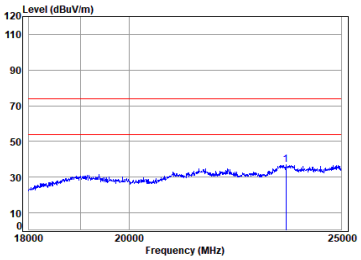
11b_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-FI 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23758.910	6.77	38.81	50.35	51.80	37.49	74.00	-36.51	Peak	-9.54

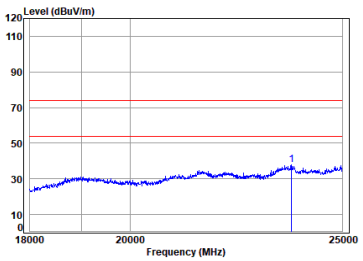
11b_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-FI 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23587.820	6.76	38.48	50.32	51.37	36.75	74.00	-37.25	Peak	-9.54

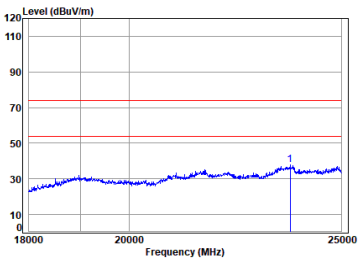
11b_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-FI 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23704.340	6.77	38.71	50.34	52.24	37.84	74.00	-36.16	Peak	-9.54

11b_TX_CH_06_Vertical



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-FI 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23696.550	6.77	38.69	50.34	52.24	37.82	74.00	-36.18	Peak	-9.54

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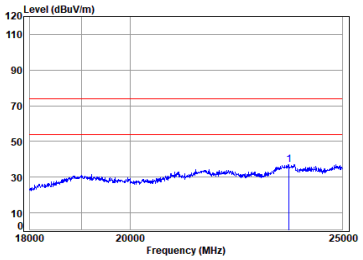
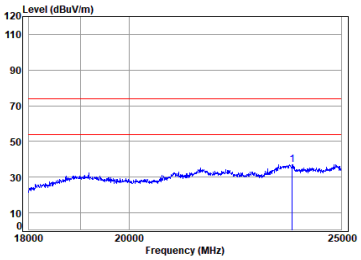
11b_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-FI 11b

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

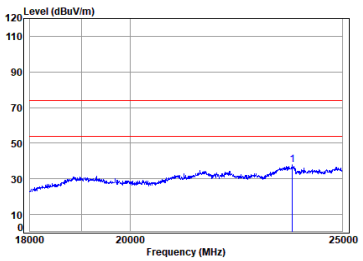
11b_TX_CH_11_Vertical



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-FI 11b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23743.310	6.77	38.79	50.35	51.35	37.02	74.00	-36.98	Peak	-9.54

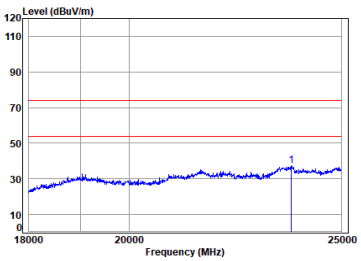
11g_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-FI 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23719.920	6.77	38.74	50.34	52.10	37.73	74.00	-36.27	Peak	-9.54

11g_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-FI 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23719.920	6.77	38.74	50.34	51.58	37.21	74.00	-36.79	Peak	-9.54

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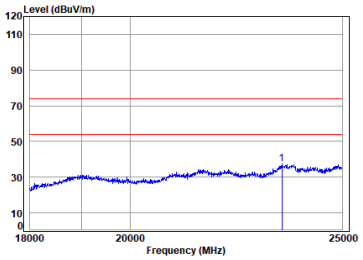
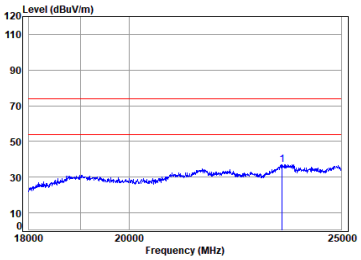
11g_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-FI 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23464.170	6.76	38.26	50.63	52.41	37.26	74.00	-36.74	Peak	-9.54

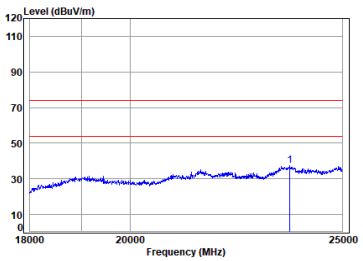
11g_TX_CH_06_Vertical



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-FI 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23495.020	6.76	38.29	50.35	51.97	37.13	74.00	-36.87	Peak	-9.54

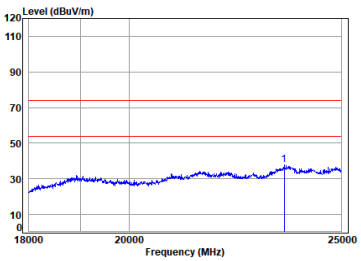
11g_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-FI 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23657.660	6.77	38.62	50.33	51.83	37.35	74.00	-36.65	Peak	-9.54

11g_TX_CH_11_Vertical



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2462 TX RSE
: 2.4G Wi-FI 11g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23549.110	6.76	38.40	50.31	52.63	37.94	74.00	-36.06	Peak	-9.54

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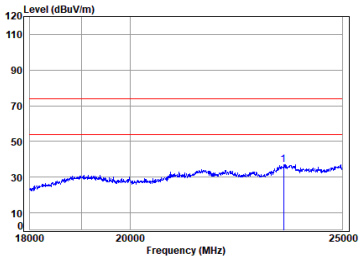
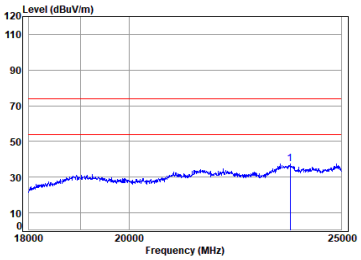
11n_20M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-FI 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23510.460	6.76	38.32	50.30	51.82	37.06	74.00	-36.94	Peak	-9.54

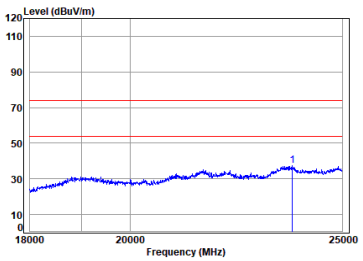
11n_20M_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2412 TX RSE
: 2.4G Wi-FI 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23696.550	6.77	38.69	50.34	51.82	37.40	74.00	-36.60	Peak	-9.54

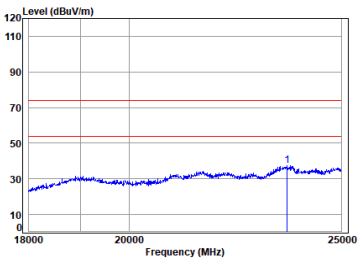
11n_20M_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-FI 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23719.920	6.77	38.74	50.34	51.85	37.48	74.00	-36.52	Peak	-9.54

11n_20M_TX_CH_06_Vertical



Condition: 3m VERTICAL
Job No : 05646WM/05647WM
Mode : 2437 TX RSE
: 2.4G Wi-FI 11n20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp23618.840	6.76	38.54	50.32	51.96	37.40	74.00	-36.60	Peak	-9.54

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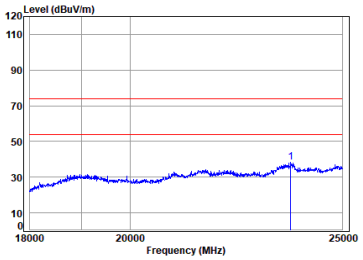
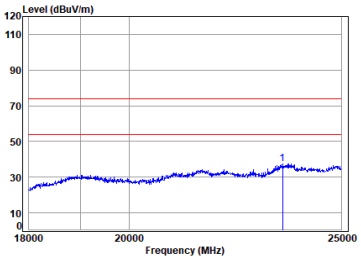
11n_20M_TX_CH_11_Horizontal




```
Condition: 3m HORIZONTAL
Job No   : 05646WM/05647WM
Mode     : 2462 TX RSE
         : 2.4G Wi-FI 11n20
                Cable    Ant Preamp   Read          Limit   Over                Aux
           Freq  Loss Factor Factor  Level  Level   Line  Limit Remark     Factor
           MHz    dB   dB/m    dB   dBuV dBuV/m dBuV/m    dB                 dB

 1 pp23680.990  6.77  38.66  50.34  52.68  38.23  74.00 -35.77 Peak        -9.54
```

11n_20M_TX_CH_11_Vertical




```
Condition: 3m VERTICAL
Job No   : 05646WM/05647WM
Mode     : 2462 TX RSE
         : 2.4G Wi-FI 11n20
                Cable    Ant Preamp   Read          Limit   Over                Aux
           Freq  Loss Factor Factor  Level  Level   Line  Limit Remark     Factor
           MHz    dB   dB/m    dB   dBuV dBuV/m dBuV/m    dB                 dB

 1 pp23502.740  6.76  38.31  50.30  52.37  37.60  74.00 -36.40 Peak        -9.54
```

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7.5 Conducted Peak Output Power

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

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.1 °C Humidity: 33.1 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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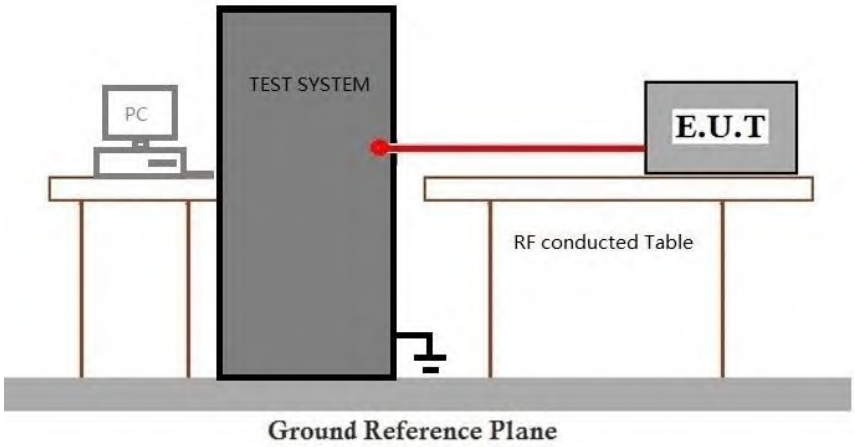
7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

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7.6 Minimum 6dB Bandwidth

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

Limit:
≥500 kHz

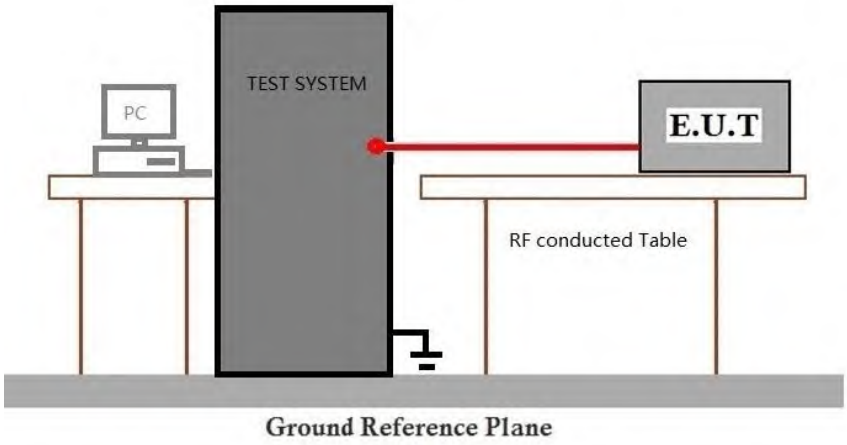
7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 21.1 °C Humidity: 33.1 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.7 Power Spectrum Density

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

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

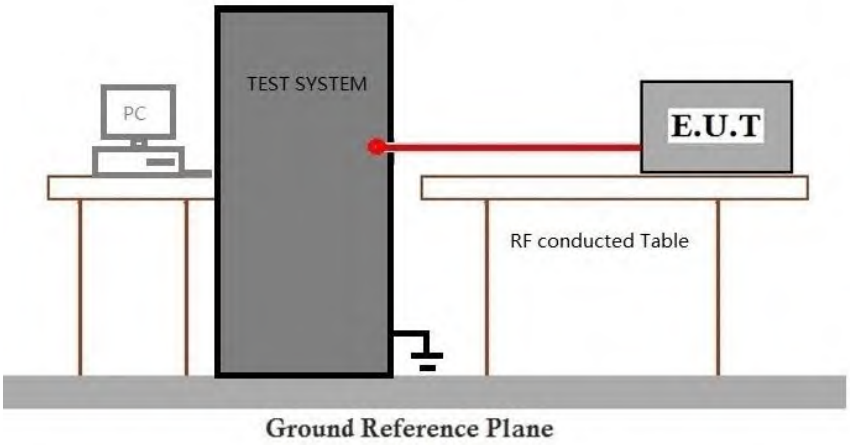
7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 21.1 °C Humidity: 33.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Conducted Band Edges Measurement

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

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.1 °C Humidity: 33.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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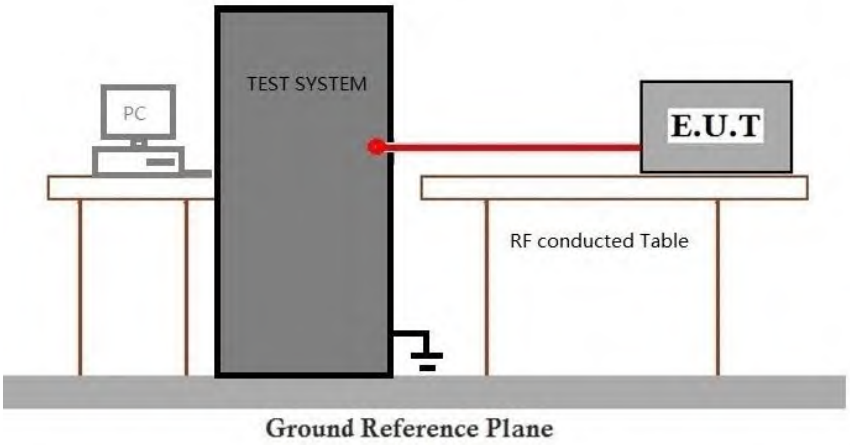
7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2020) Section 11.11
Test Engineer: Linvo Ding

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.1 °C Humidity: 33.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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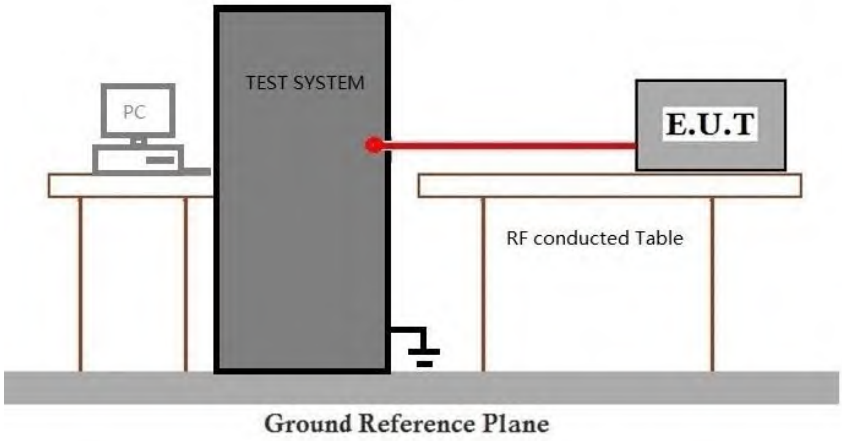
7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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8 Test Setup Photo

Refer to SZCR2602000568WM Appendix_Setup Photo-WLAN

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2602000568WM

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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant7

Ant7							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.210	12.380	98.63	0.06	0.19
		2437	12.210	12.373	98.68	0.06	0.24
		2462	12.210	12.377	98.65	0.06	0.16
802.11g	SISO	2412	2.030	2.065	98.31	0.07	0.03
		2437	2.030	2.065	98.31	0.07	0.04
		2462	2.030	2.065	98.31	0.07	0.03
802.11n (HT20)	SISO	2412	1.890	1.926	98.13	0.08	0.03
		2437	1.889	1.925	98.13	0.08	0.03
		2462	1.890	1.925	98.18	0.08	0.03
802.11n (HT40)	SISO	2422	0.929	0.979	94.89	0.23	0.03
		2437	0.929	0.979	94.89	0.23	0.03
		2452	0.929	0.979	94.89	0.23	0.00

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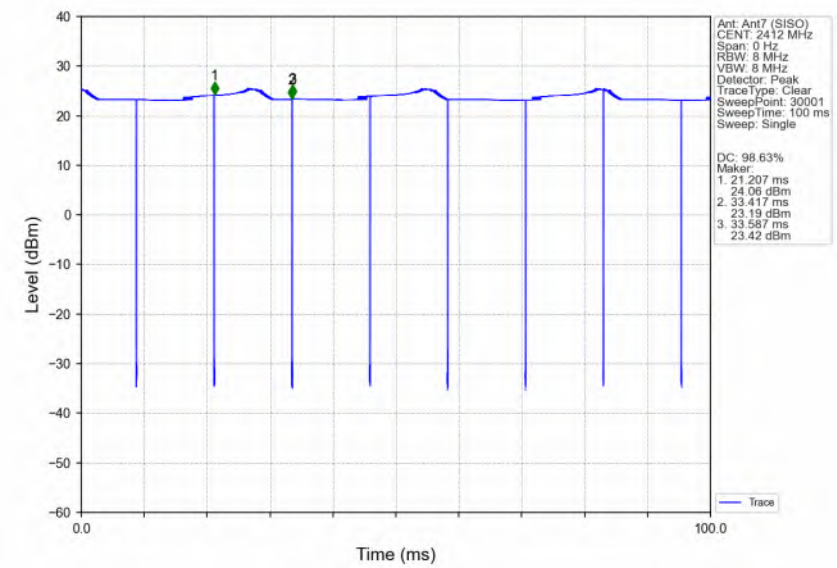
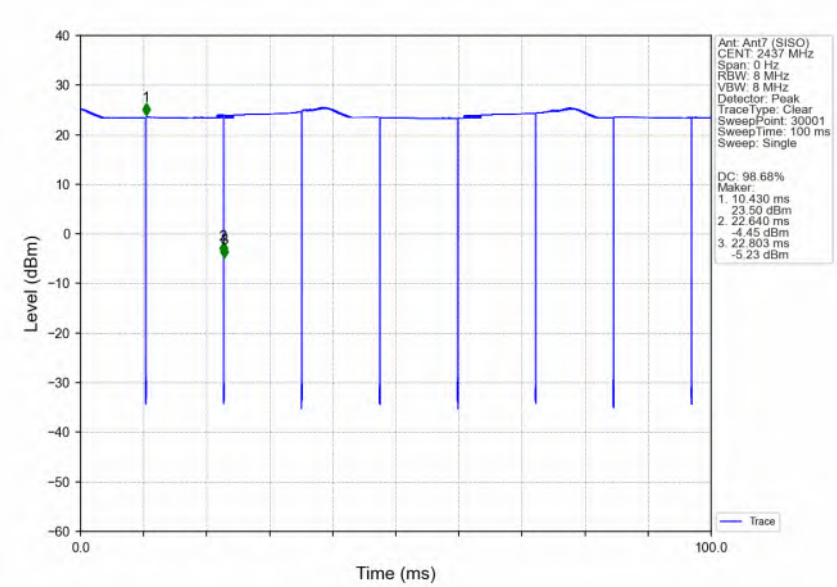
1.2 Test Graph

1.2.1 Ant7

802.11b_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant7 (SISO)_NTNV



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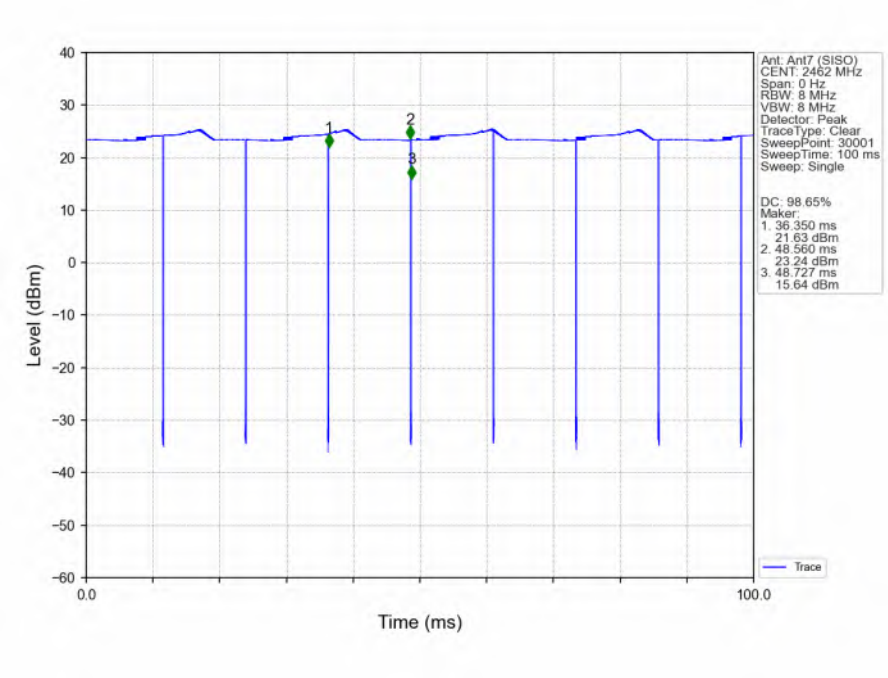
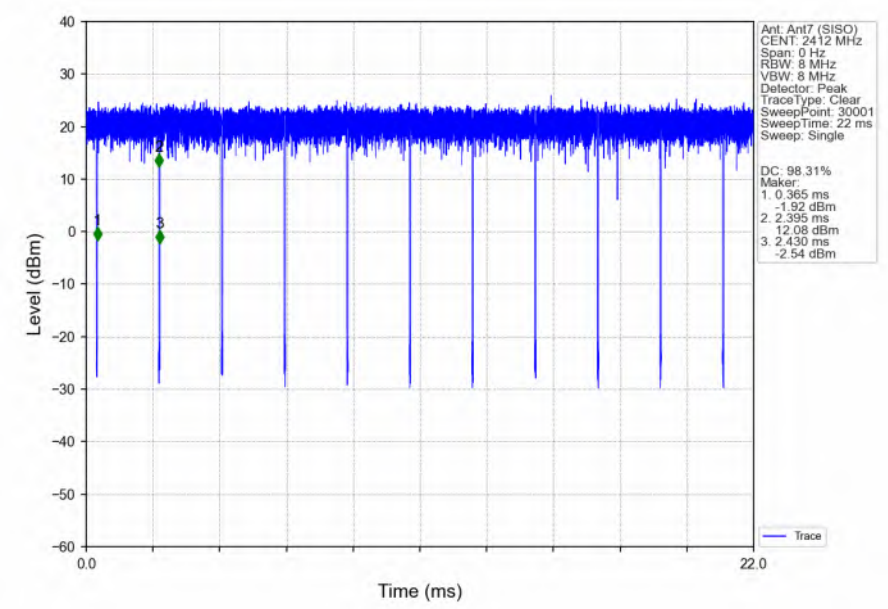
802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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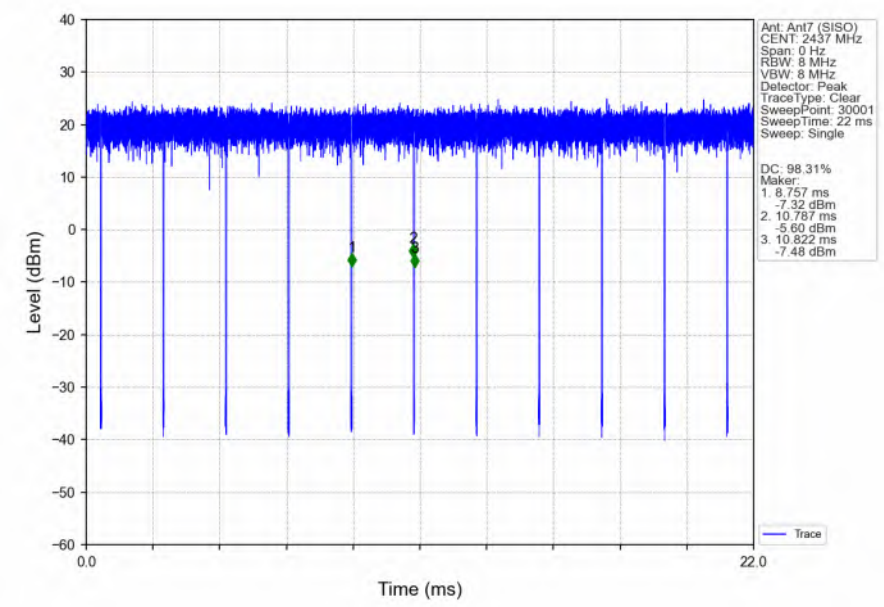
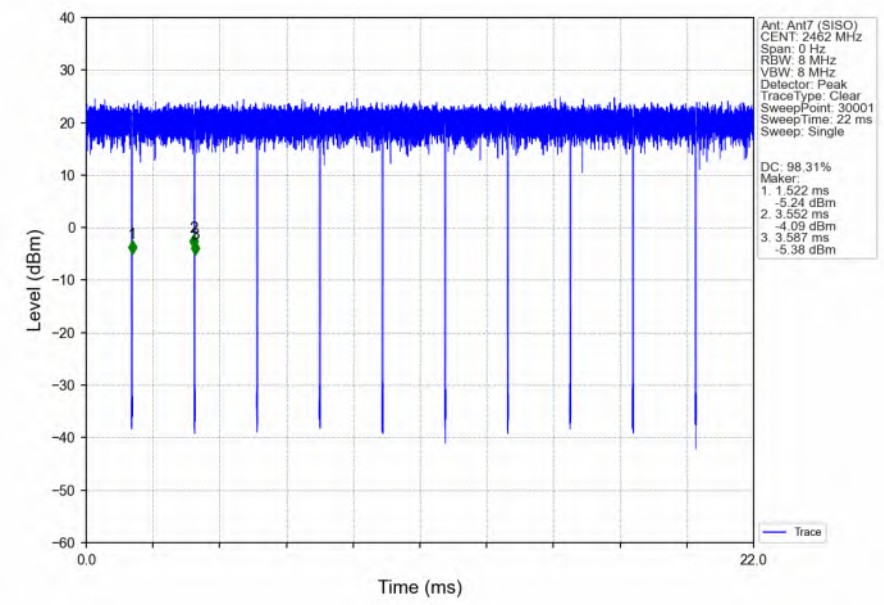
802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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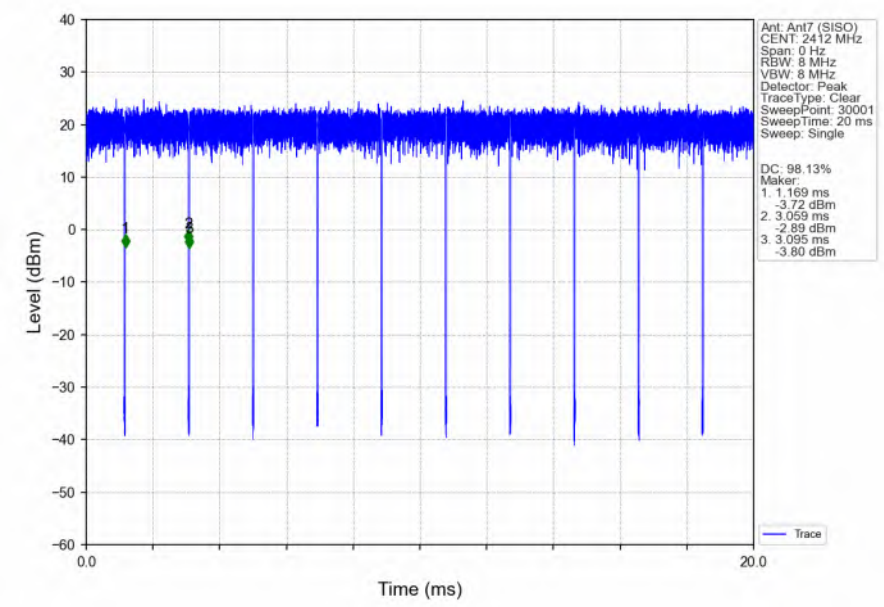
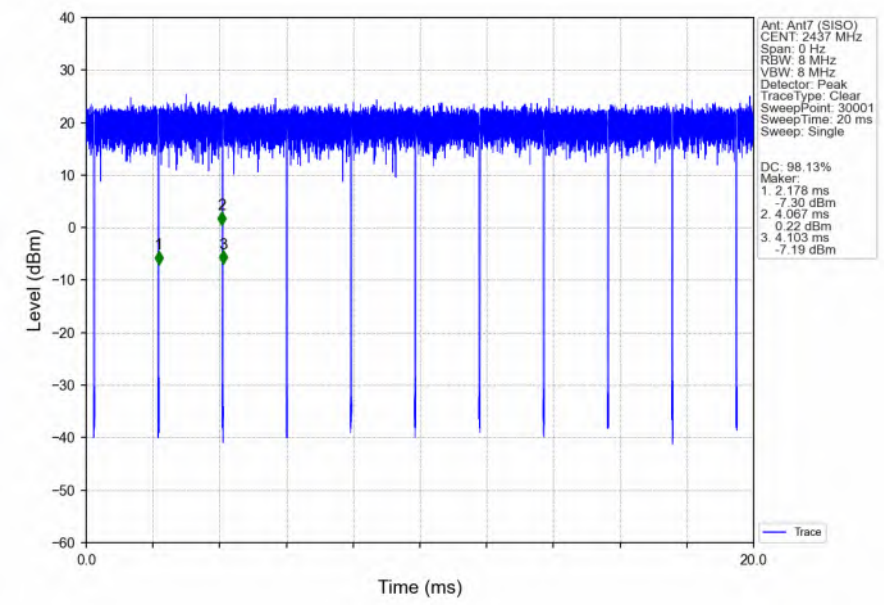
802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant7 (SISO)_NTNV



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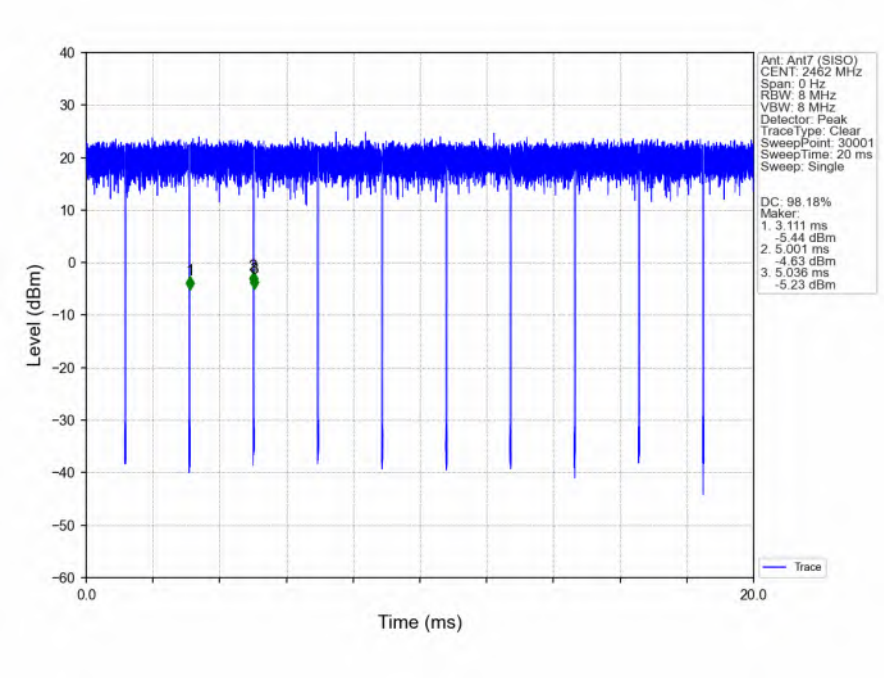
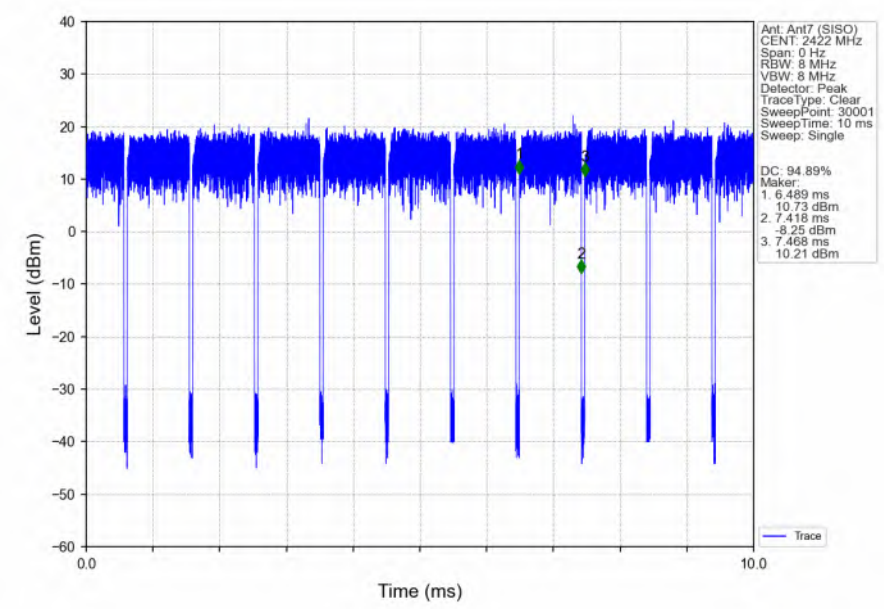


802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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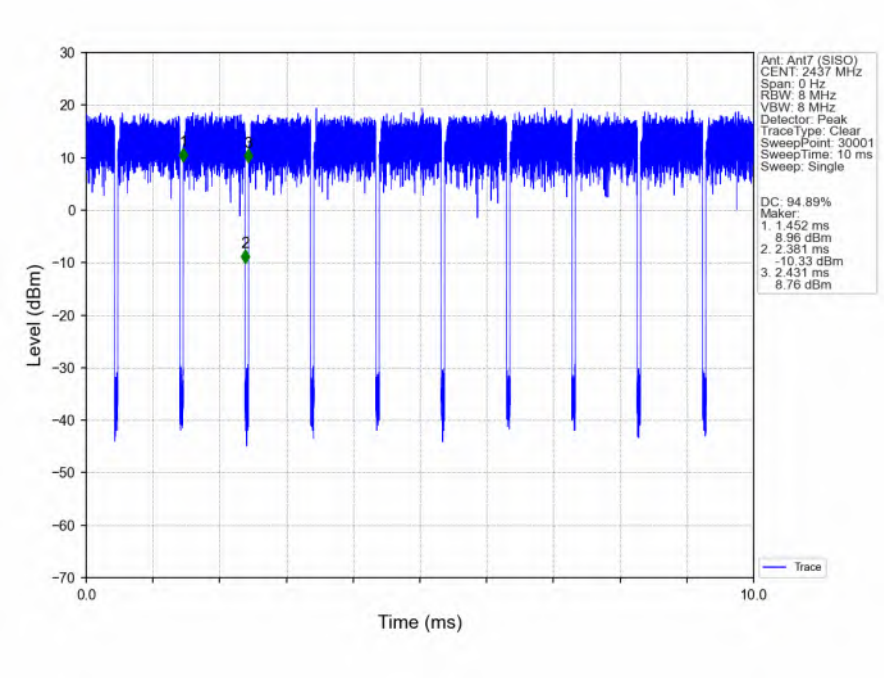
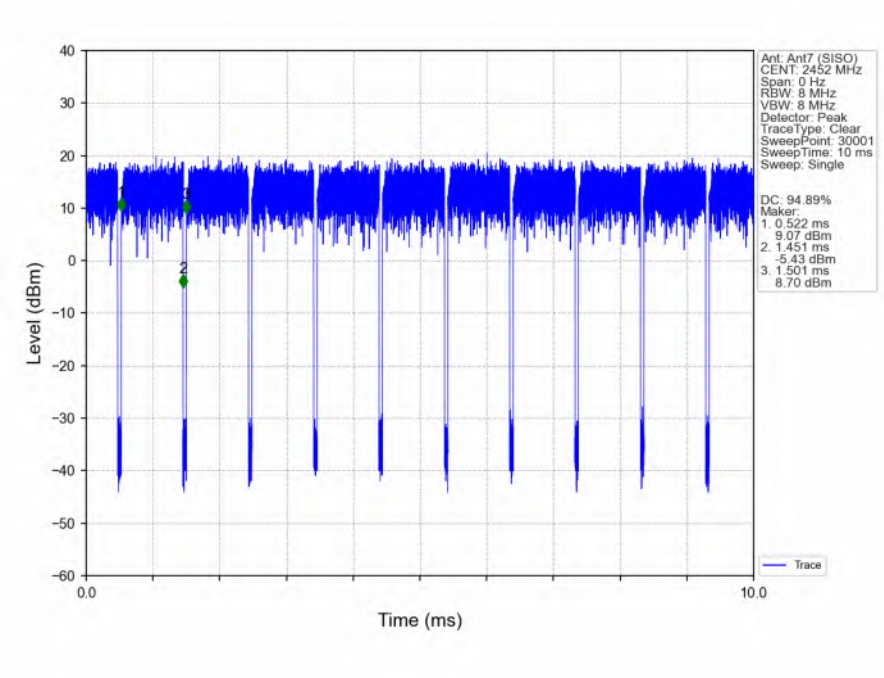
802.11n(HT40)_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant7 (SISO)_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	7	14.564	/	Pass
		2437	7	14.103	/	Pass
		2462	7	14.223	/	Pass
802.11g	SISO	2412	7	19.206	/	Pass
		2437	7	18.030	/	Pass
		2462	7	18.176	/	Pass
802.11n (HT20)	SISO	2412	7	19.814	/	Pass
		2437	7	19.058	/	Pass
		2462	7	19.066	/	Pass
802.11n (HT40)	SISO	2422	7	36.521	/	Pass
		2437	7	36.738	/	Pass
		2452	7	36.488	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	7	9.225	>=0.5	Pass
		2437	7	9.200	>=0.5	Pass
		2462	7	9.219	>=0.5	Pass
802.11g	SISO	2412	7	16.433	>=0.5	Pass
		2437	7	16.377	>=0.5	Pass
		2462	7	16.278	>=0.5	Pass
802.11n (HT20)	SISO	2412	7	17.511	>=0.5	Pass
		2437	7	17.589	>=0.5	Pass
		2462	7	17.657	>=0.5	Pass
802.11n (HT40)	SISO	2422	7	35.869	>=0.5	Pass
		2437	7	36.393	>=0.5	Pass
		2452	7	36.054	>=0.5	Pass

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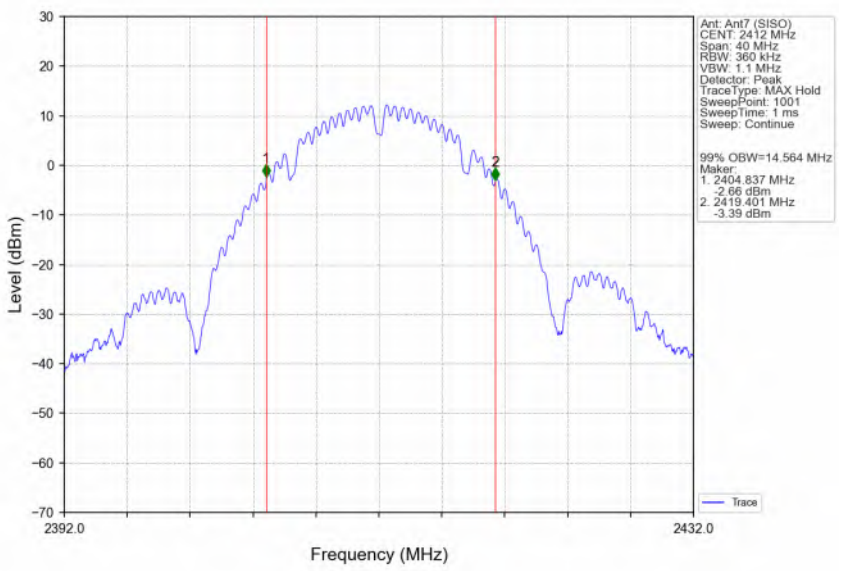
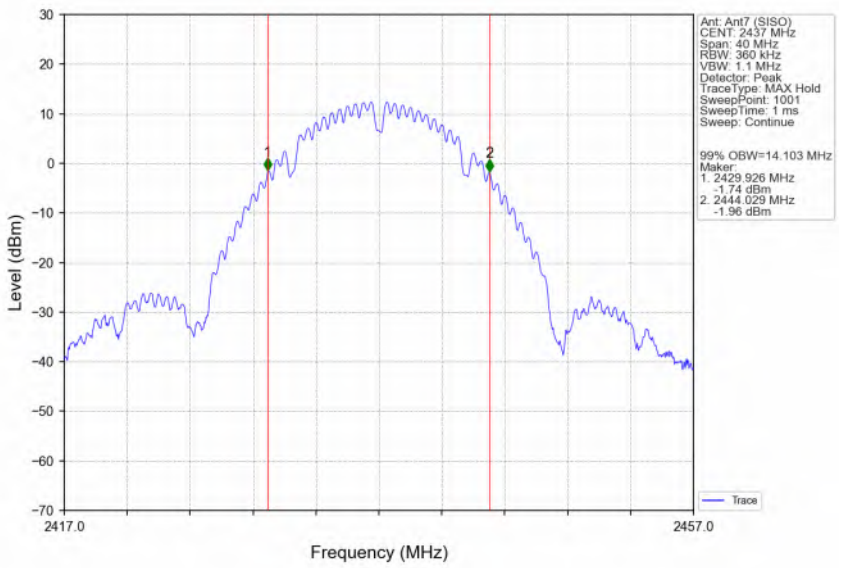
2.2 Test Graph

2.2.1 OBW

802.11b_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant7 (SISO)_NTNV



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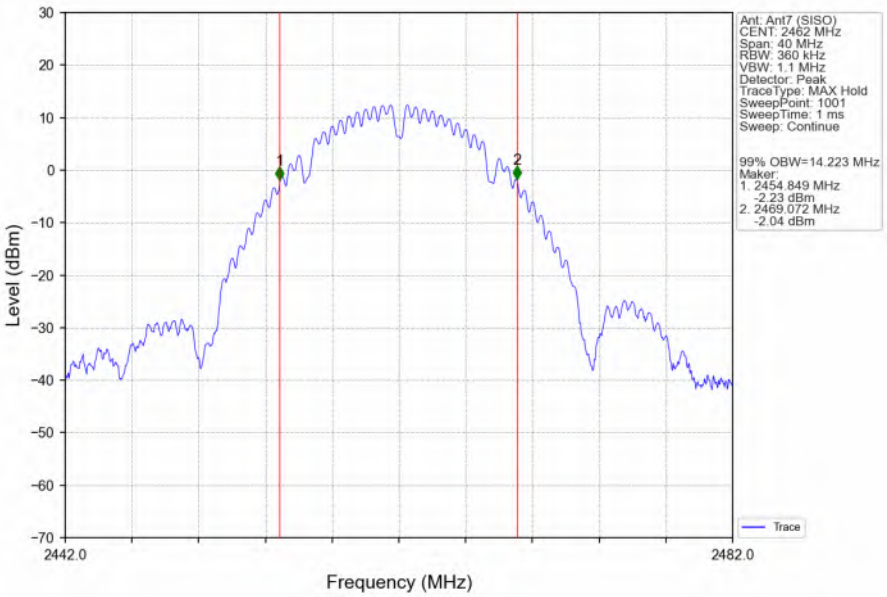
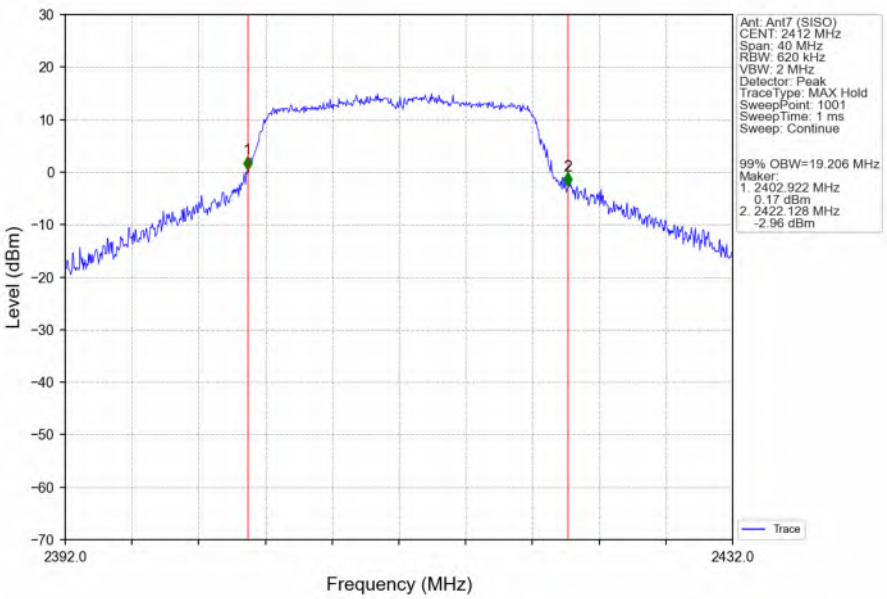
802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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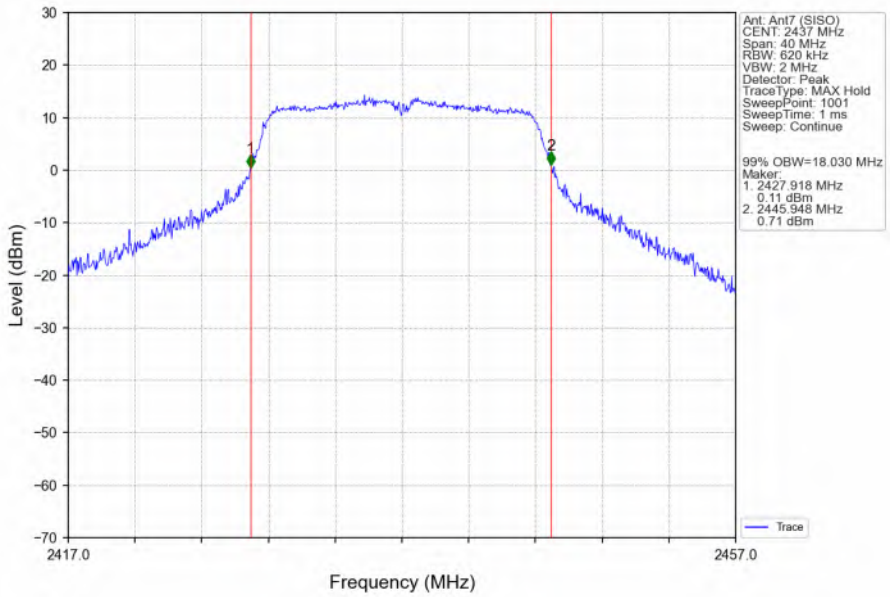
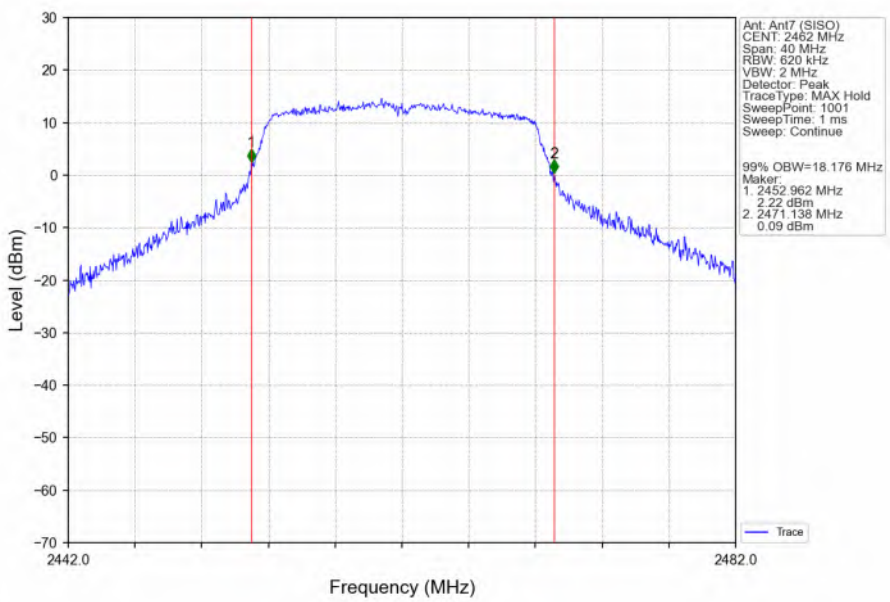
802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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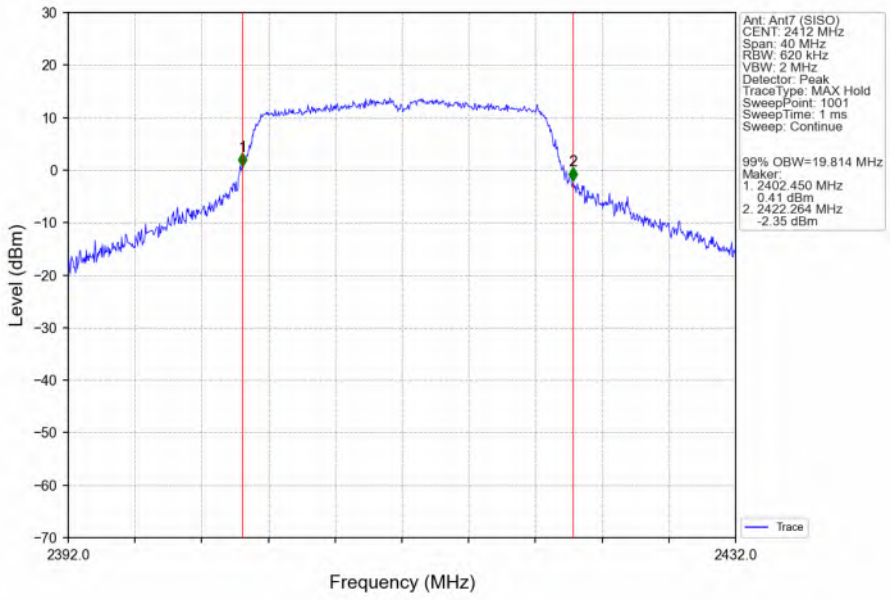
802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



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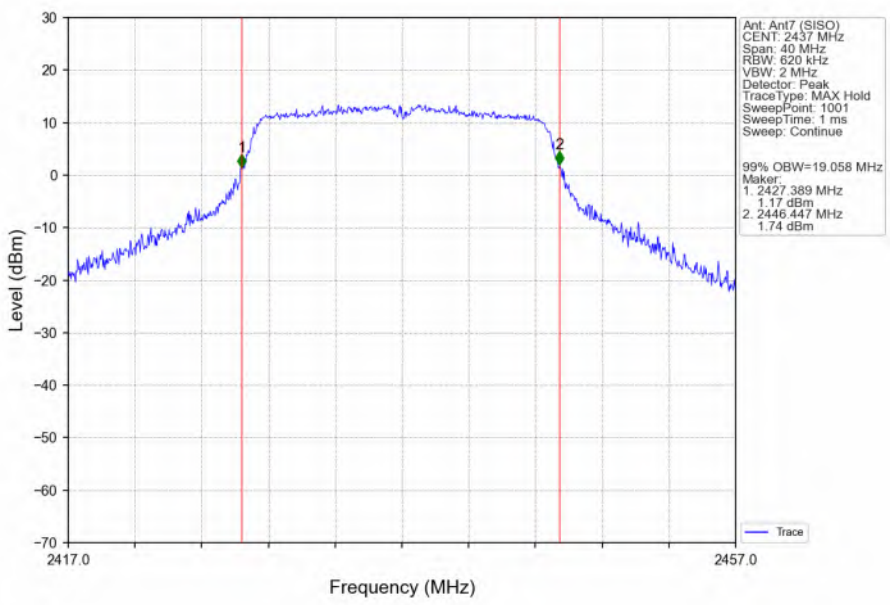

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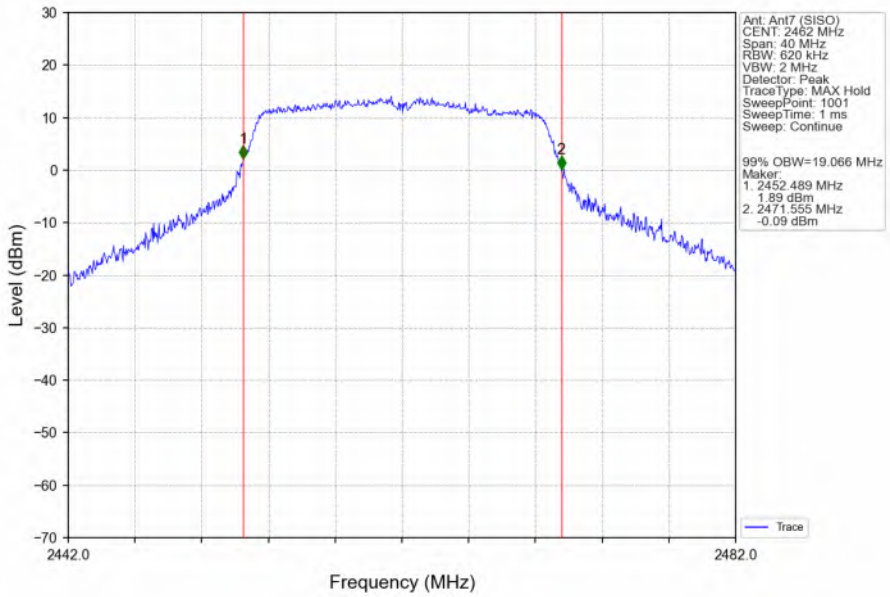
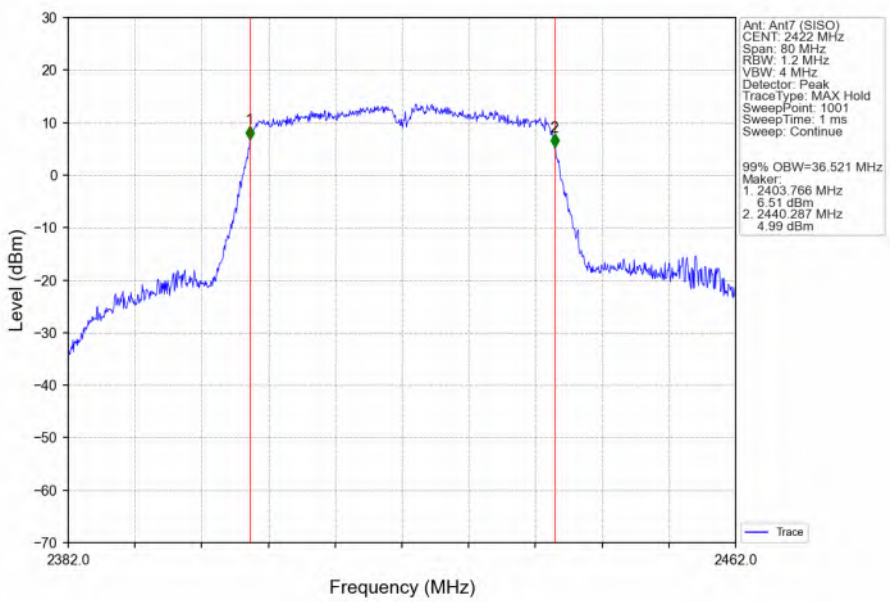
802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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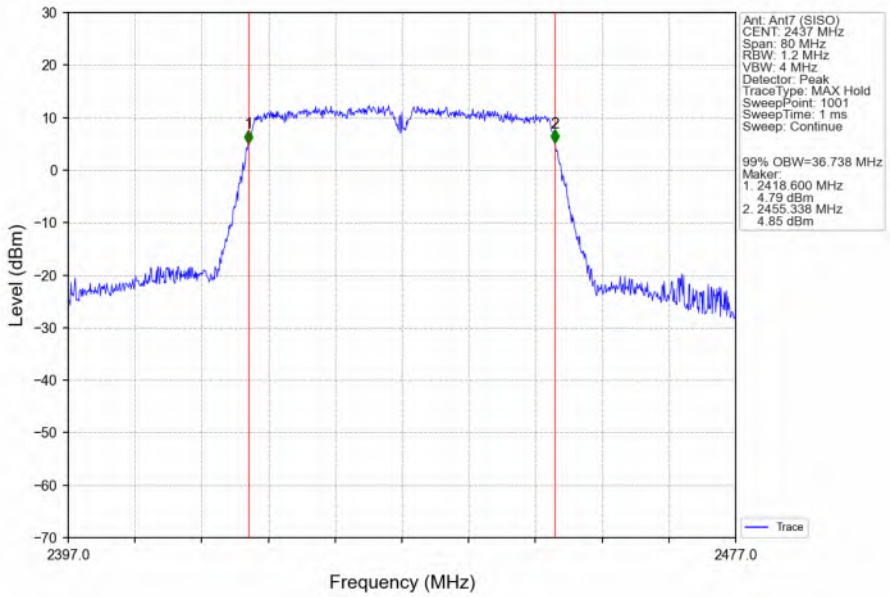
802.11n(HT40)_MCH_2437MHz_Ant7 (SISO)_NTNV



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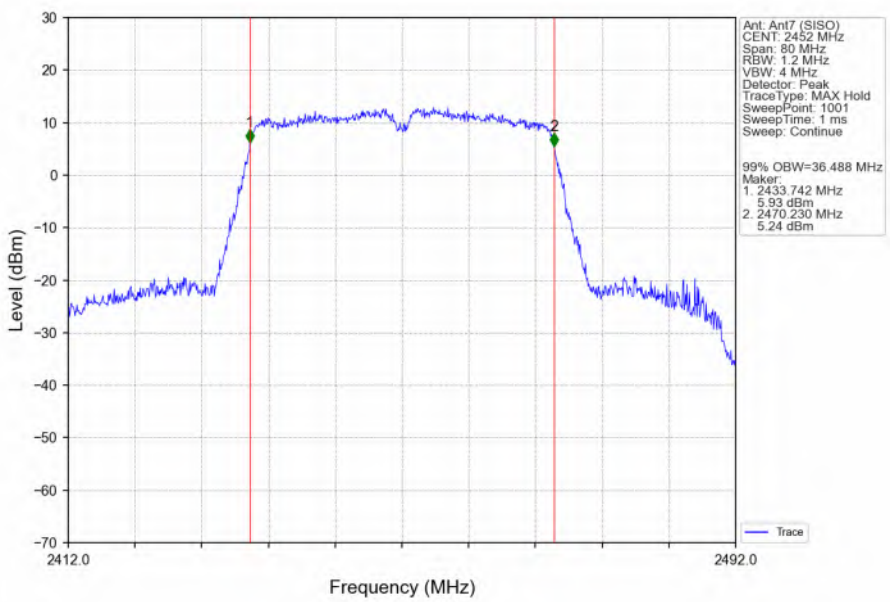

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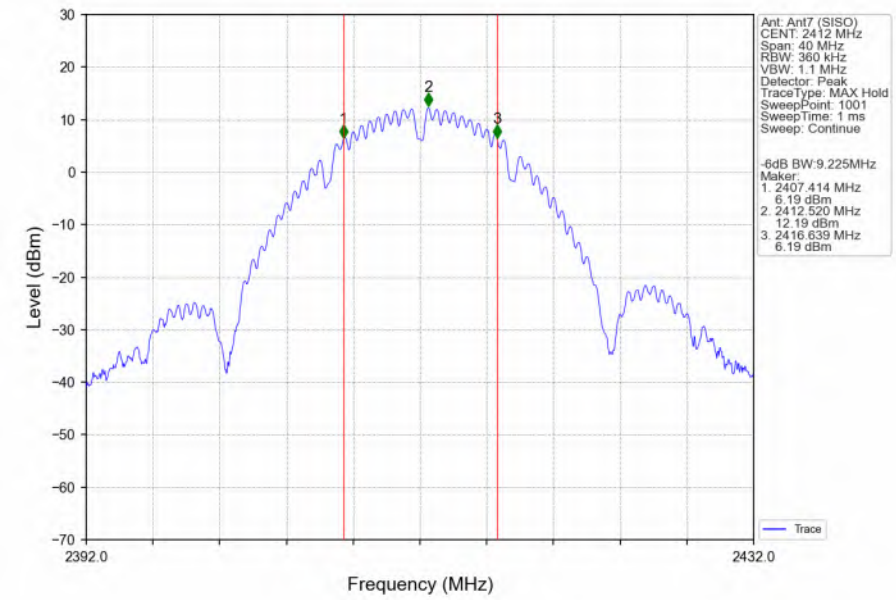
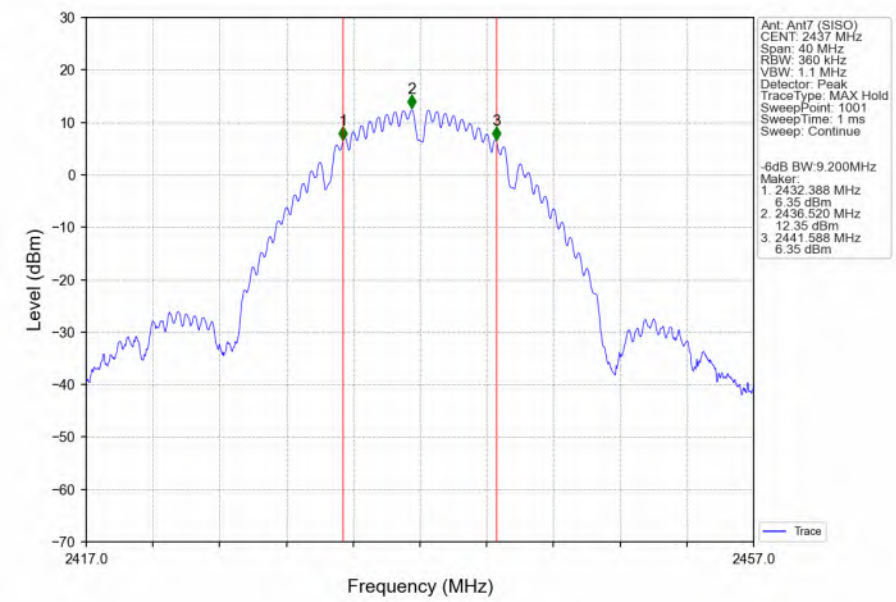
2.2.2 6dB BW

802.11b_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant7 (SISO)_NTNV



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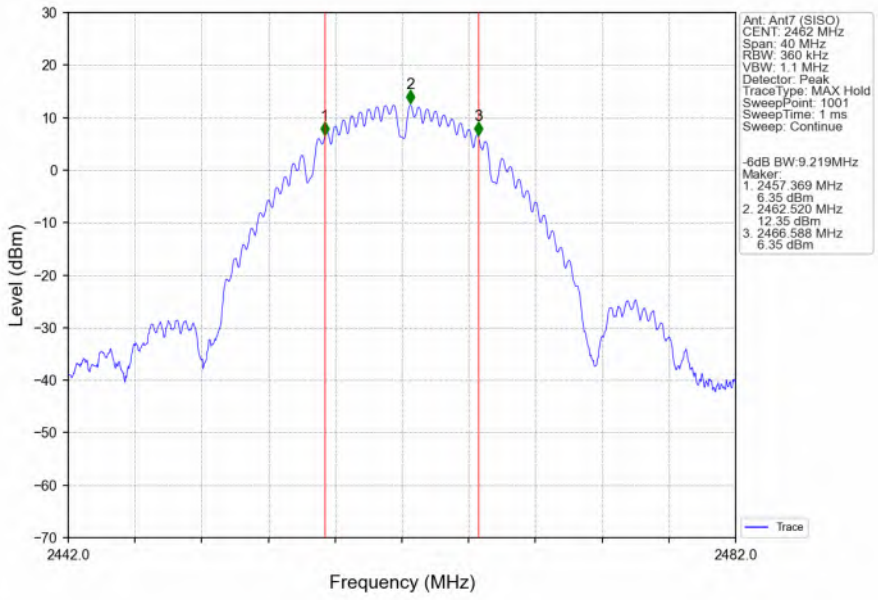
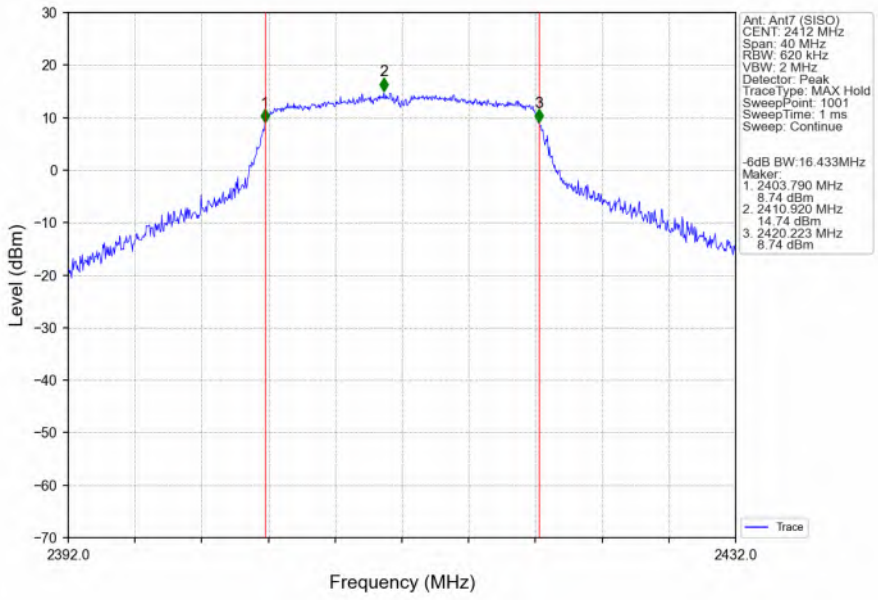
802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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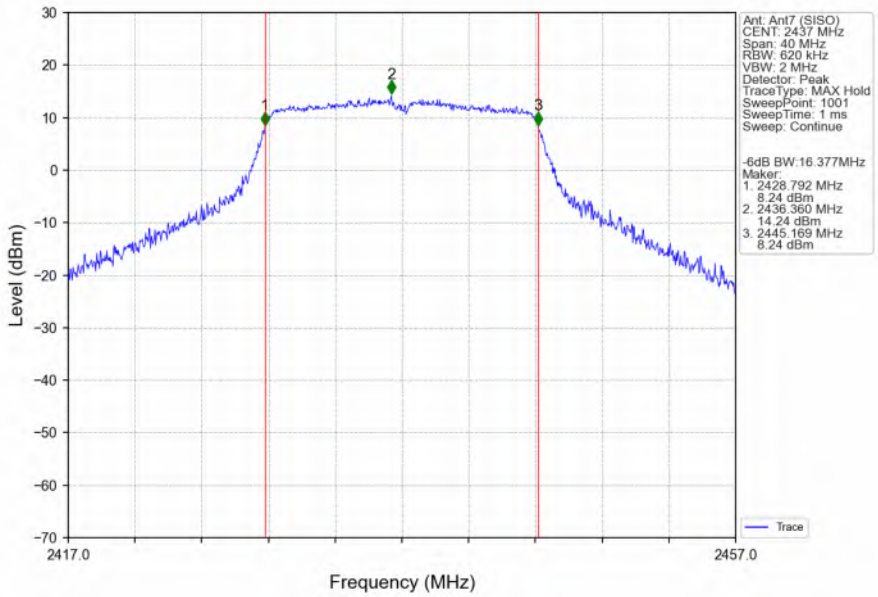
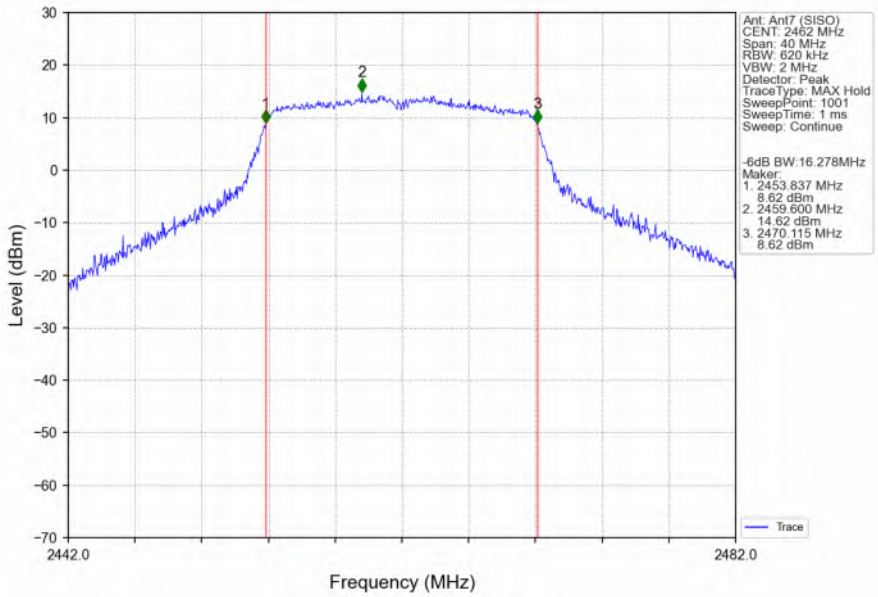
802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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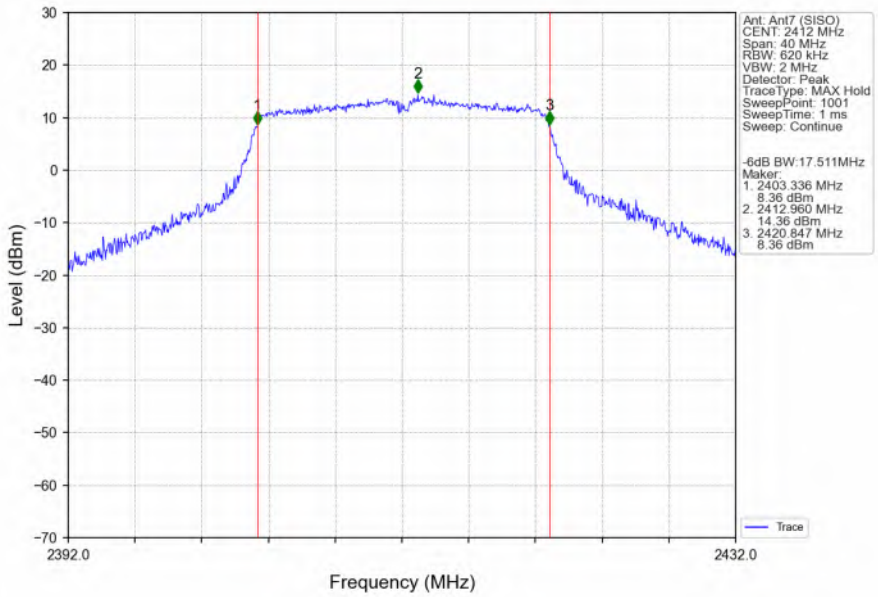
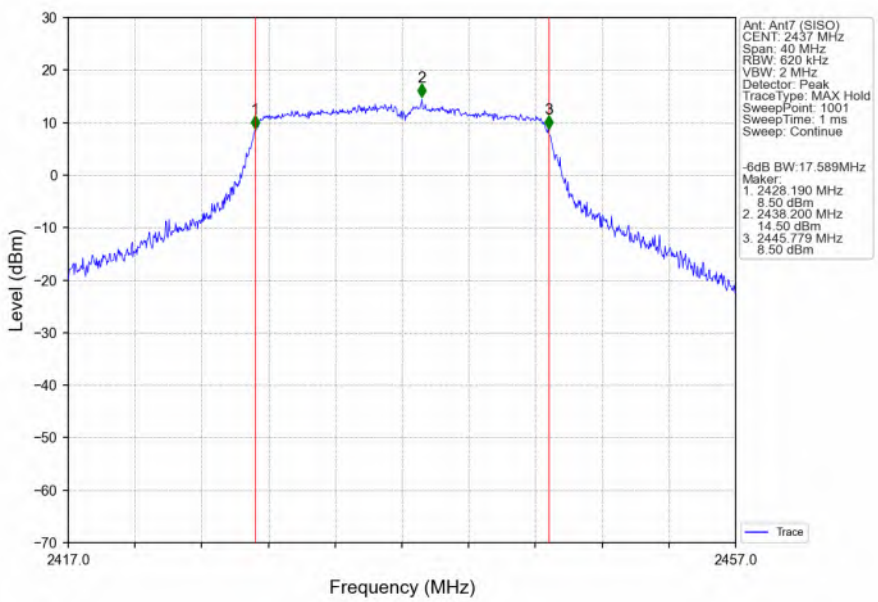
802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant7 (SISO)_NTNV



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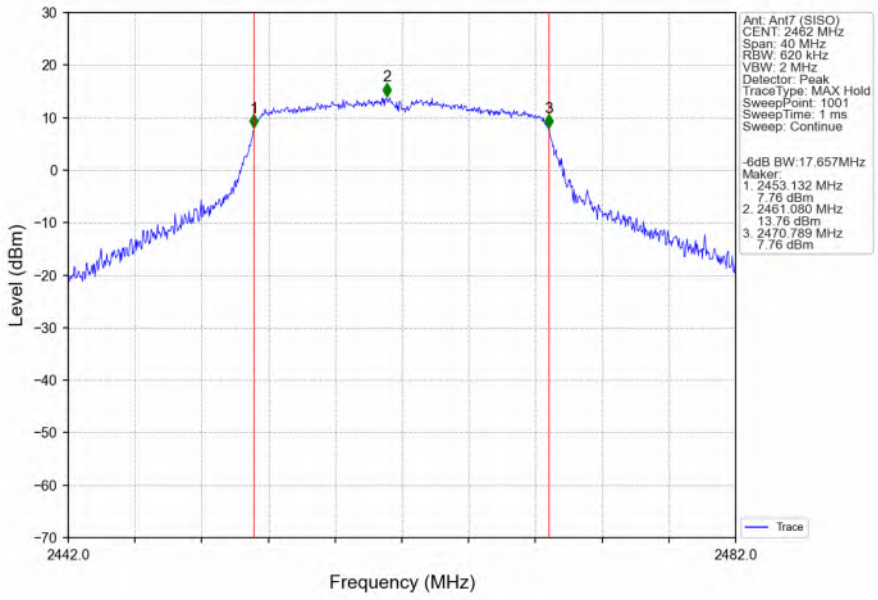
802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



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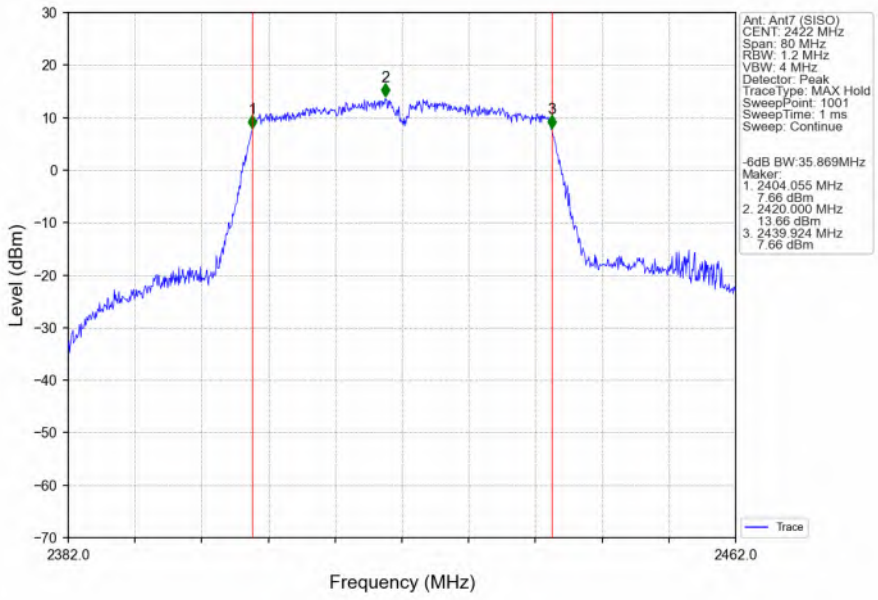

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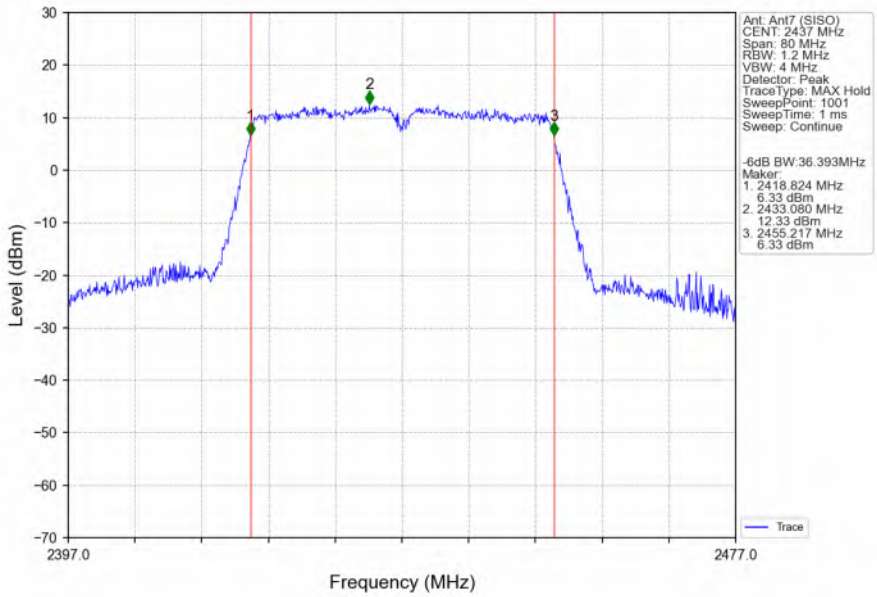
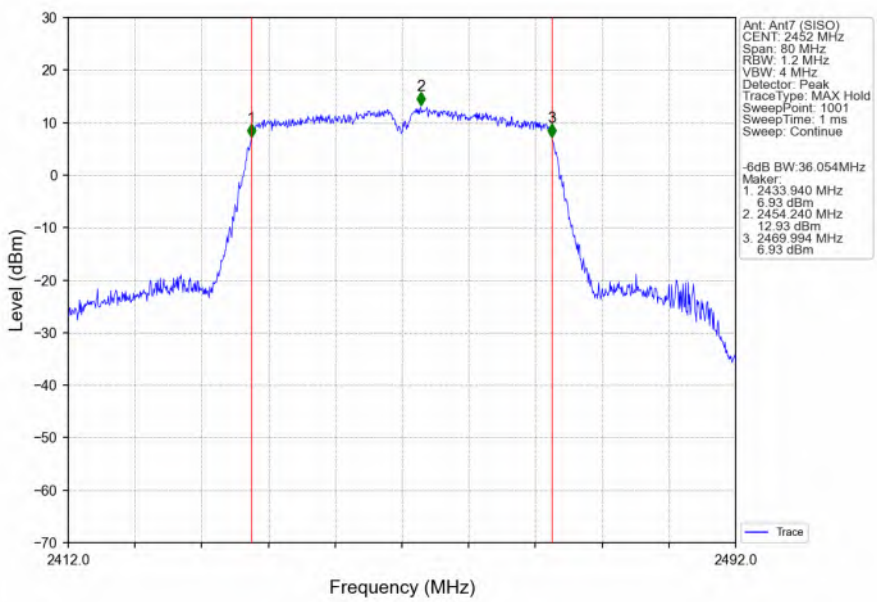
802.11n(HT40)_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant7 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT7	Limit	
802.11b	SISO	2412	19.11	<=30	Pass
		2437	19.02	<=30	Pass
		2462	19.04	<=30	Pass
802.11g	SISO	2412	17.34	<=30	Pass
		2437	18.14	<=30	Pass
		2462	18.29	<=30	Pass
802.11n (HT20)	SISO	2412	17.23	<=30	Pass
		2437	17.99	<=30	Pass
		2462	18.15	<=30	Pass
802.11n (HT40)	SISO	2422	17.28	<=30	Pass
		2437	16.66	<=30	Pass
		2452	16.74	<=30	Pass
Note1: Antenna Gain: Ant7: -4.55dBi;					

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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT7	Limit	
802.11b	SISO	2412	2.21	<=8	Pass
		2437	2.28	<=8	Pass
		2462	2.05	<=8	Pass
802.11g	SISO	2412	-2.35	<=8	Pass
		2437	-1.28	<=8	Pass
		2462	-1.17	<=8	Pass
802.11n (HT20)	SISO	2412	-2.62	<=8	Pass
		2437	-2.01	<=8	Pass
		2462	-1.43	<=8	Pass
802.11n (HT40)	SISO	2422	-5.10	<=8	Pass
		2437	-5.89	<=8	Pass
		2452	-5.24	<=8	Pass
Note1: Antenna Gain: Ant7: -4.55dBi;					

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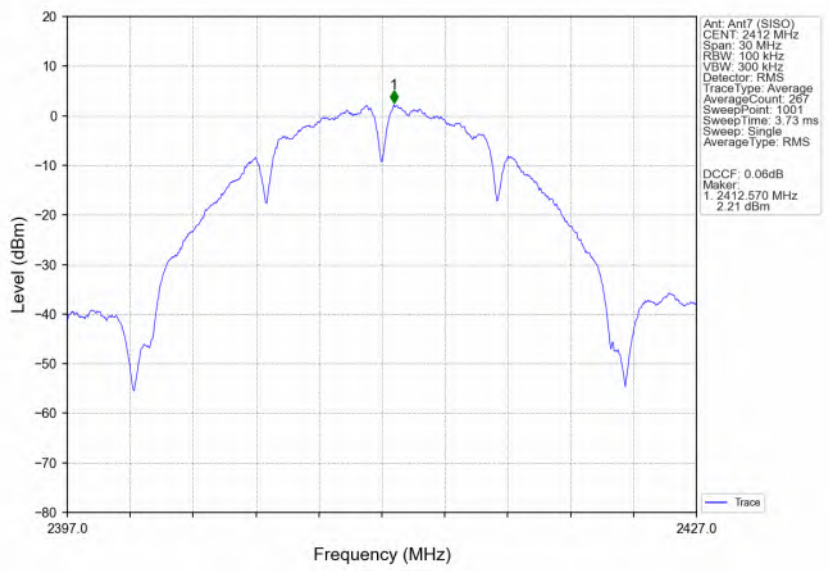
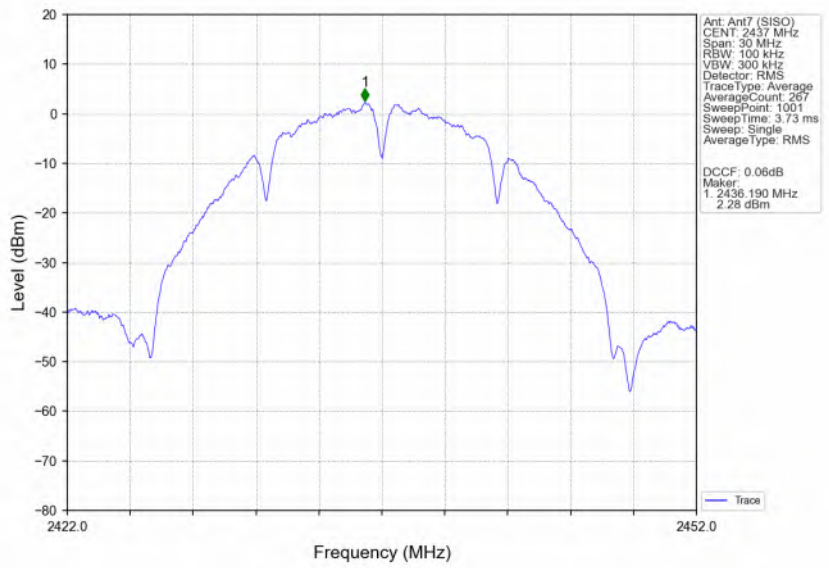
4.2 Test Graph

4.2.1 PSD

802.11b_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant7 (SISO)_NTNV



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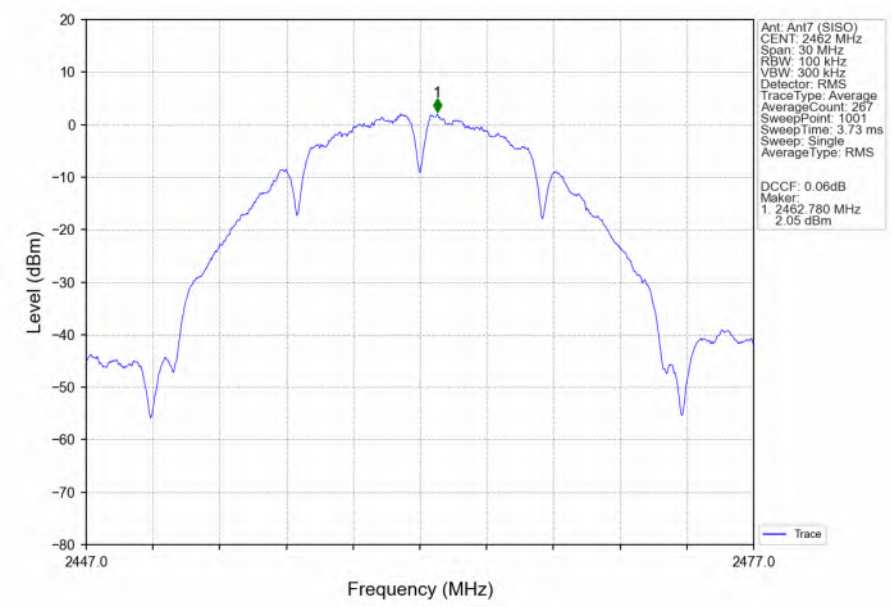
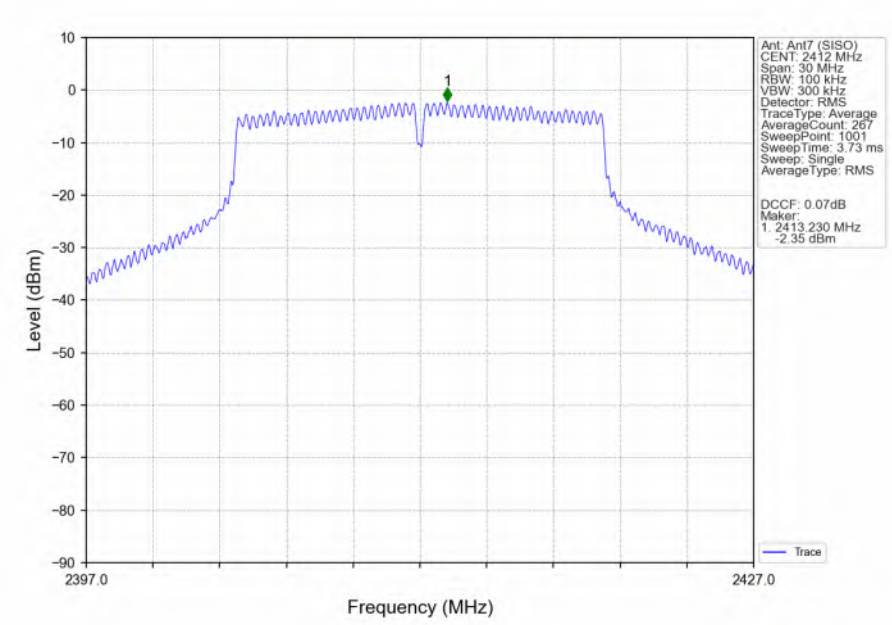
802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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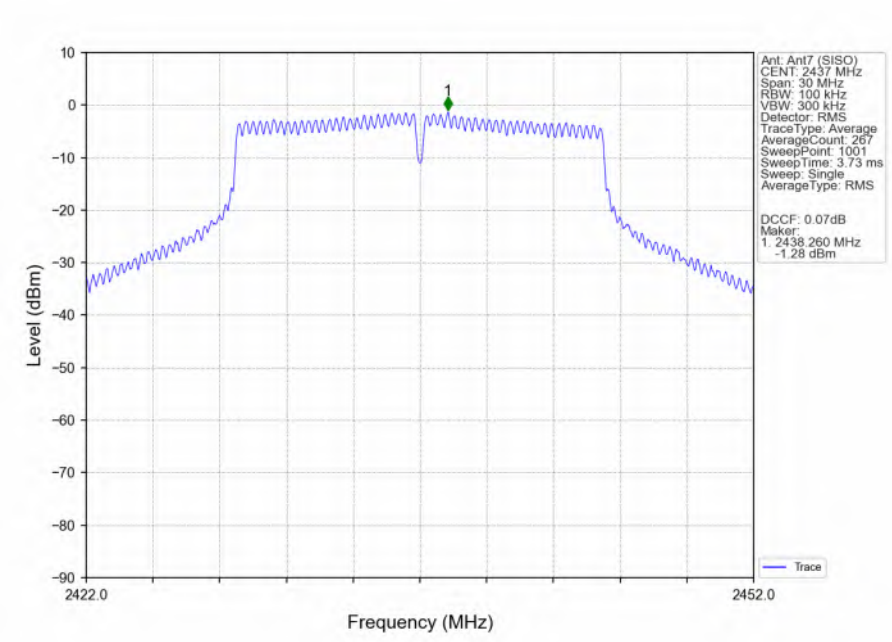
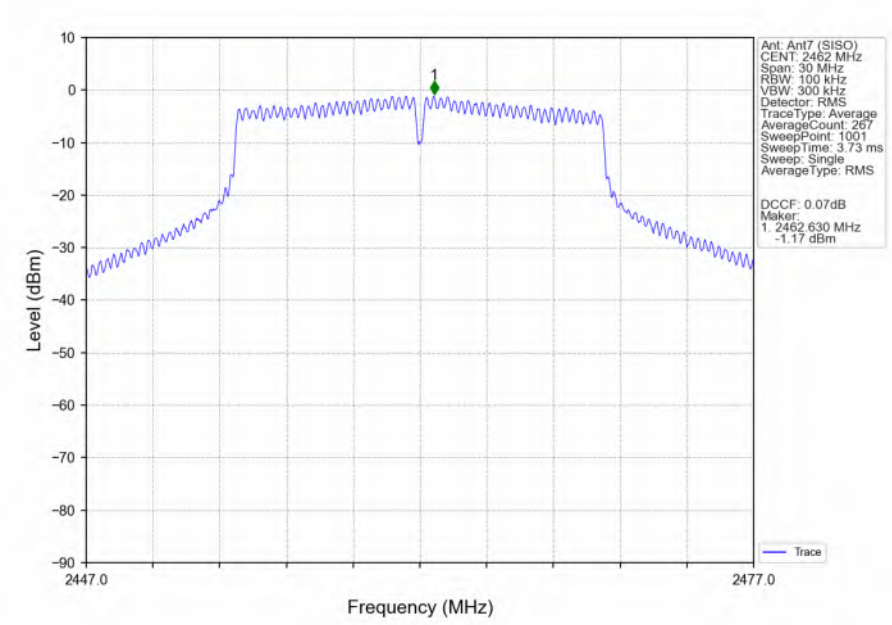
802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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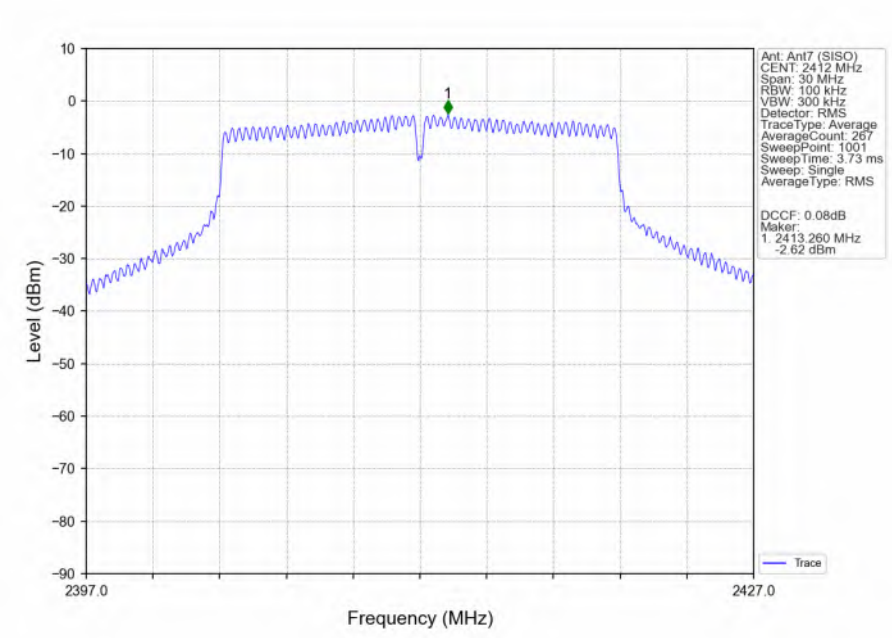
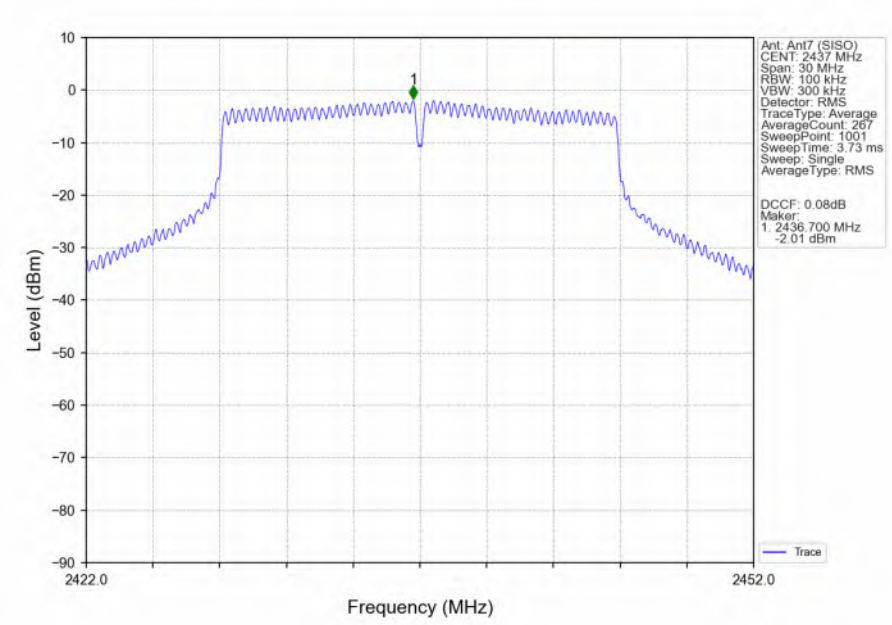
802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant7 (SISO)_NTNV



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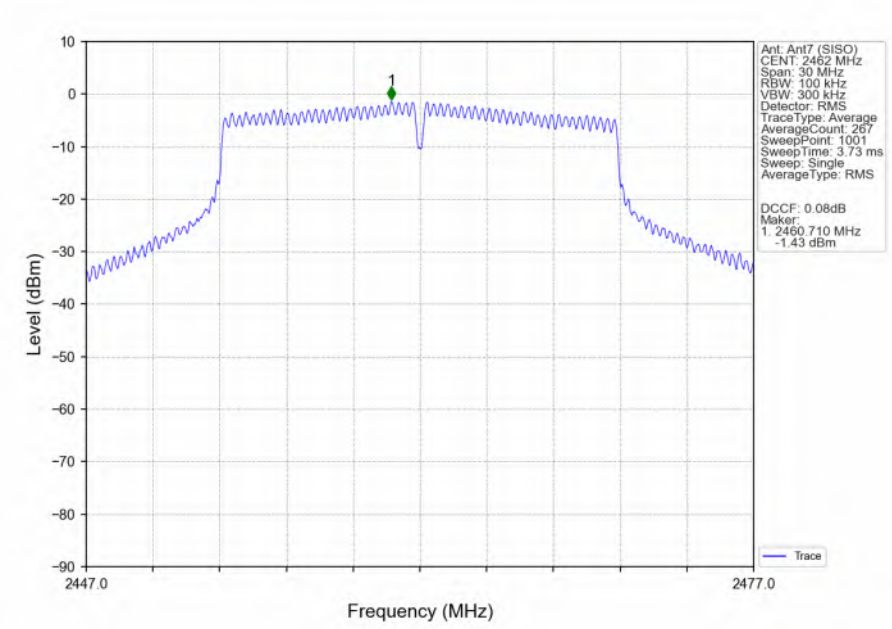
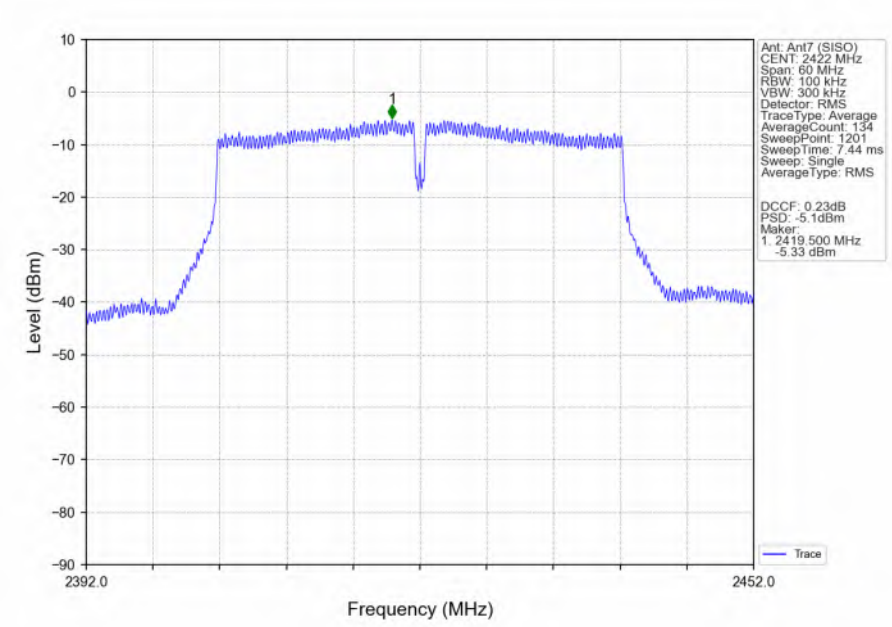
802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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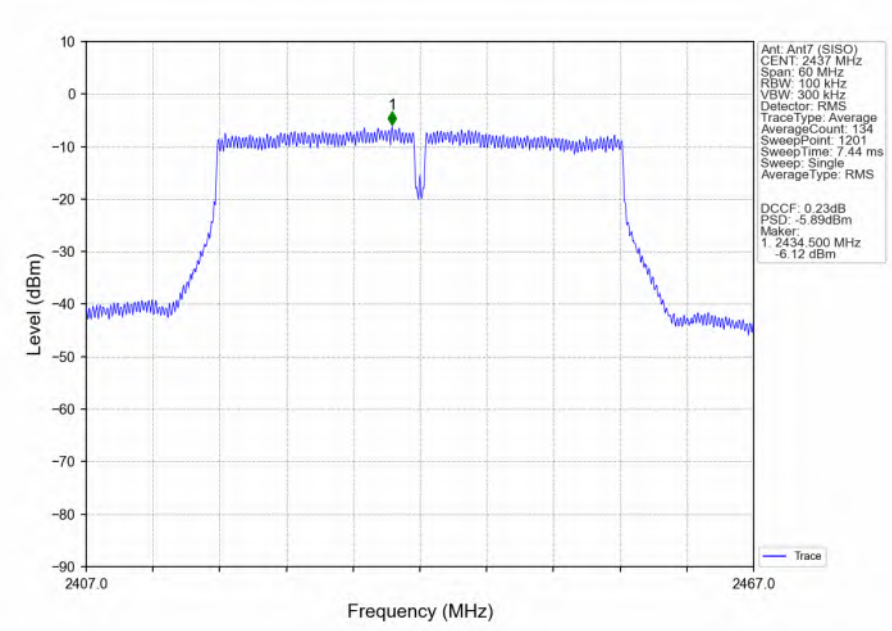
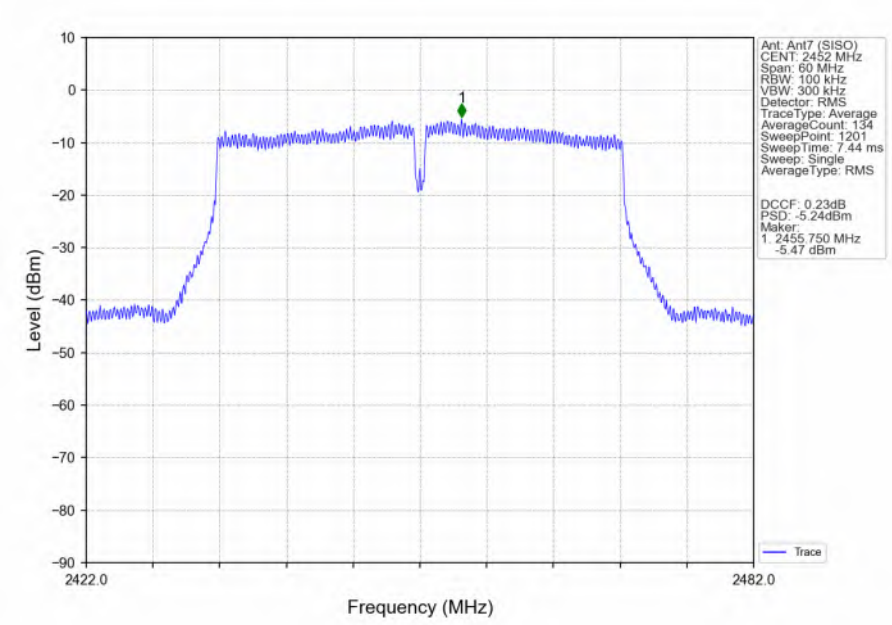
802.11n(HT40)_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant7 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	7	10.49
		2437	7	10.81
		2462	7	10.63
802.11g	SISO	2412	7	6.87
		2437	7	8.19
		2462	7	8.75
802.11n (HT20)	SISO	2412	7	6.55
		2437	7	9.01
		2462	7	9.38
802.11n (HT40)	SISO	2422	7	4.35
		2437	7	3.25
		2452	7	4.09
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	7	10.81	-19.19	Pass
		2437	7	10.81	-19.19	Pass
		2462	7	10.81	-19.19	Pass
802.11g	SISO	2412	7	8.75	-21.25	Pass
		2437	7	8.75	-21.25	Pass
		2462	7	8.75	-21.25	Pass
802.11n (HT20)	SISO	2412	7	9.38	-20.62	Pass
		2437	7	9.38	-20.62	Pass
		2462	7	9.38	-20.62	Pass
802.11n (HT40)	SISO	2422	7	4.35	-25.65	Pass
		2437	7	4.35	-25.65	Pass
		2452	7	4.35	-25.65	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

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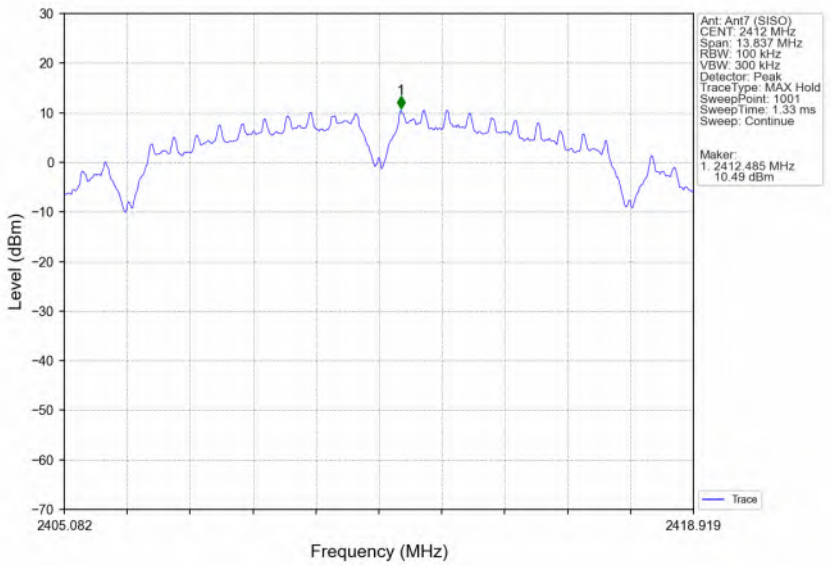
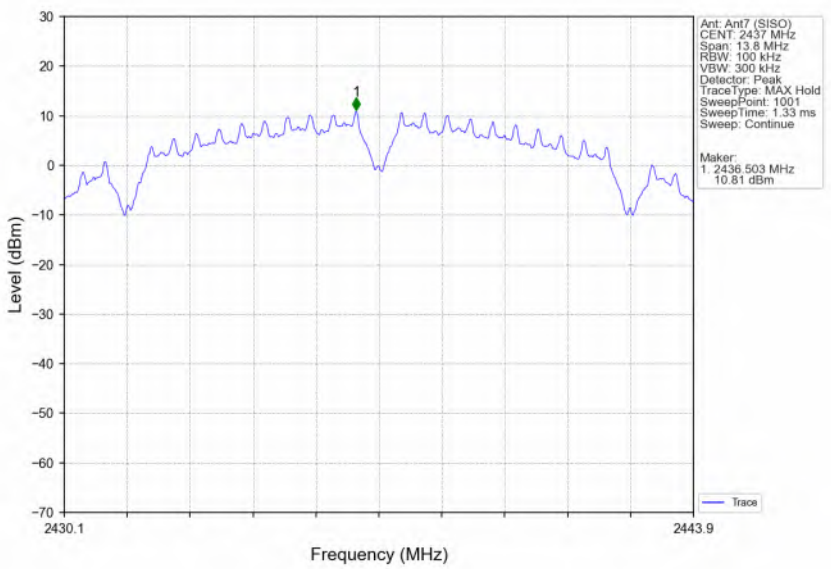
5.2 Test Graph

5.2.1 Ref

802.11b_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant7 (SISO)_NTNV



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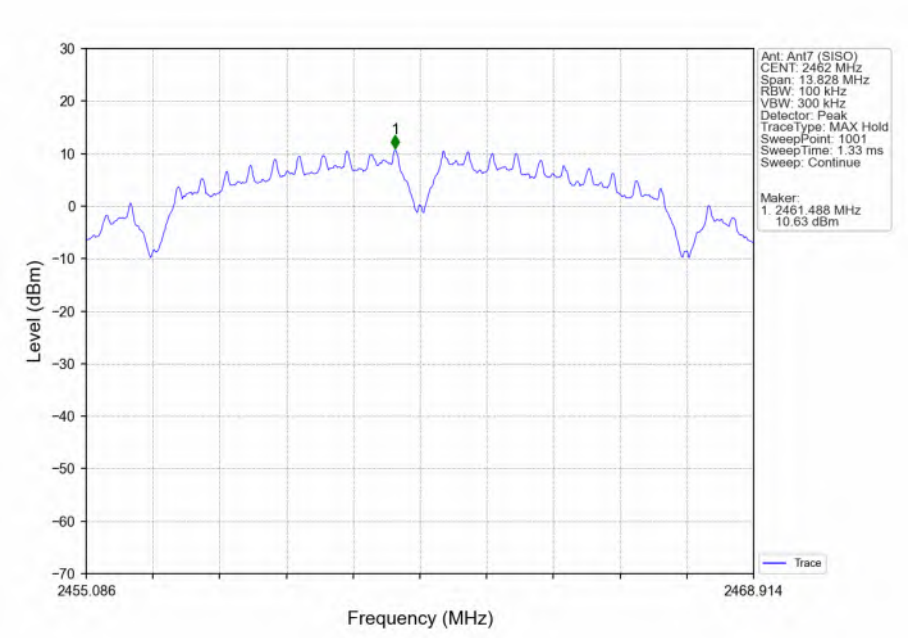
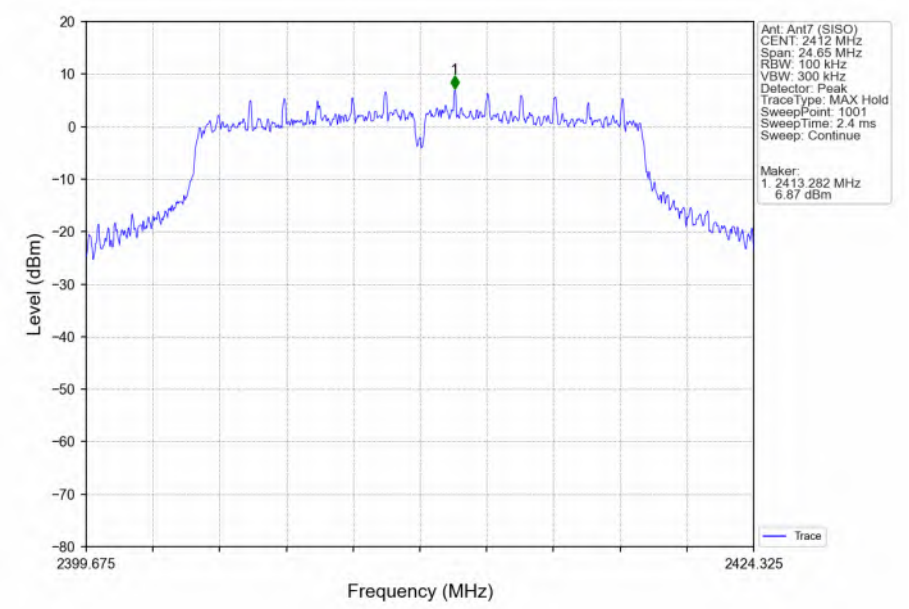
802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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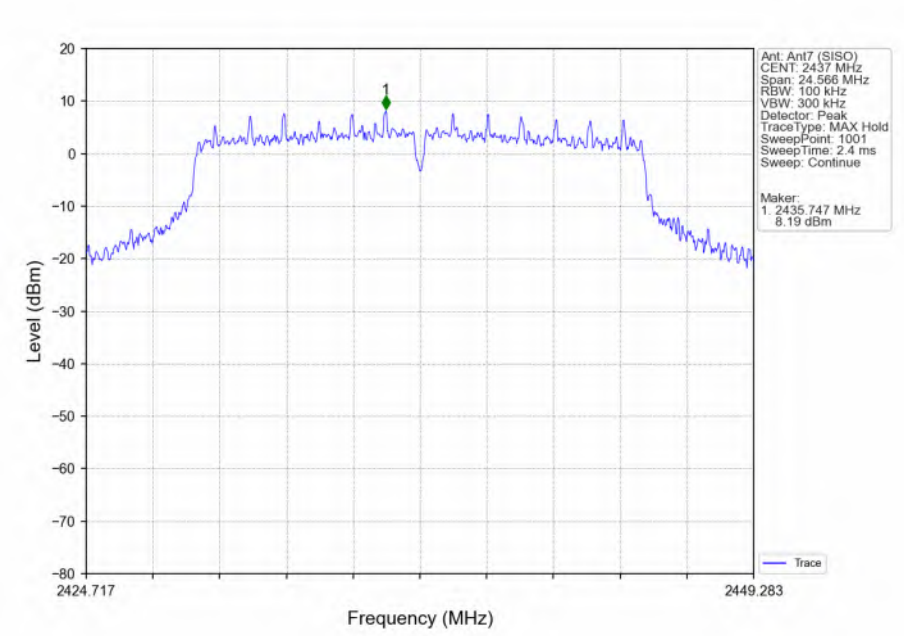
802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



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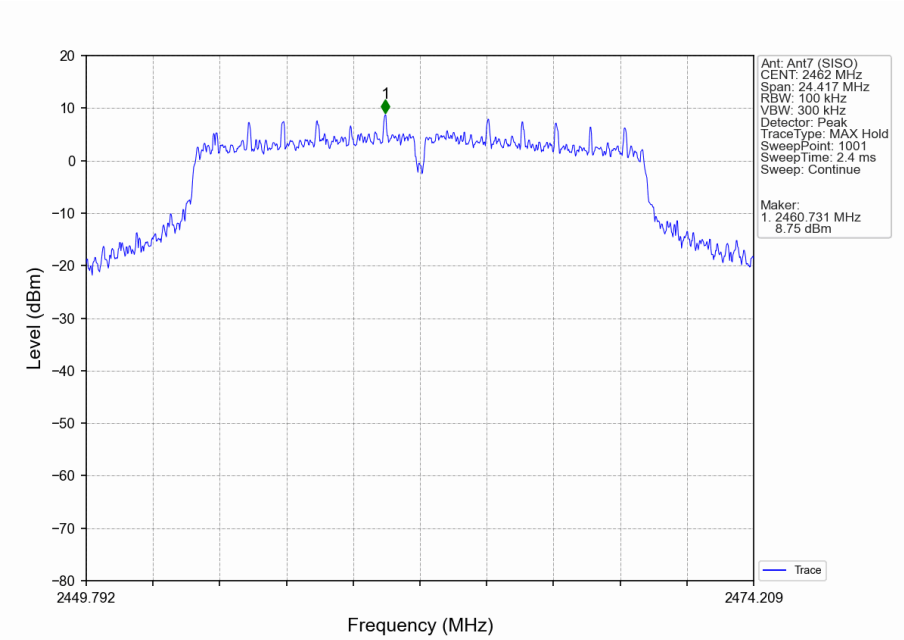

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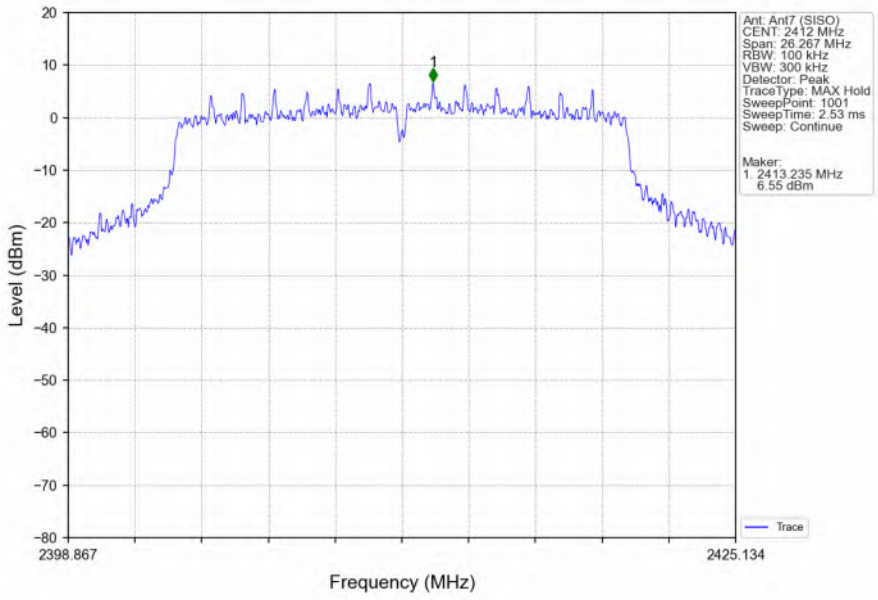
802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



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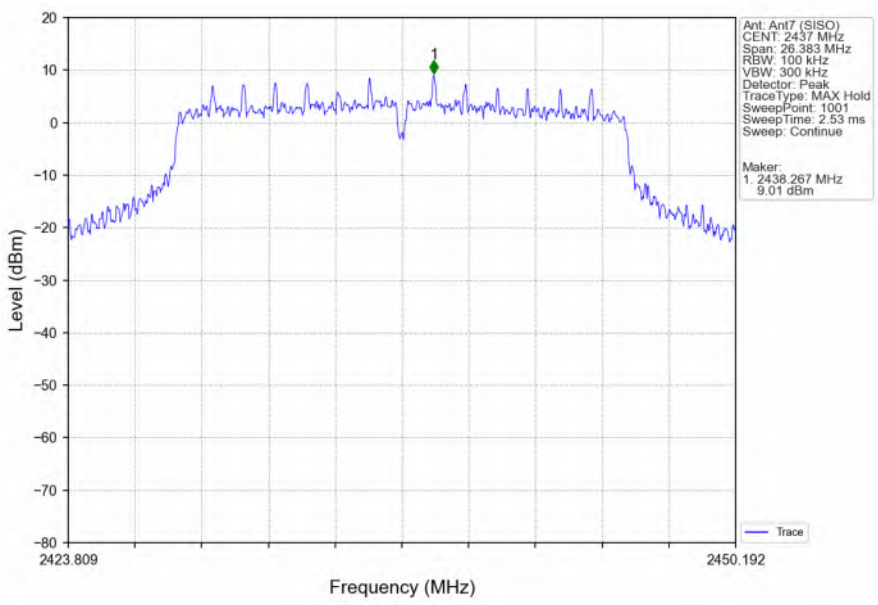

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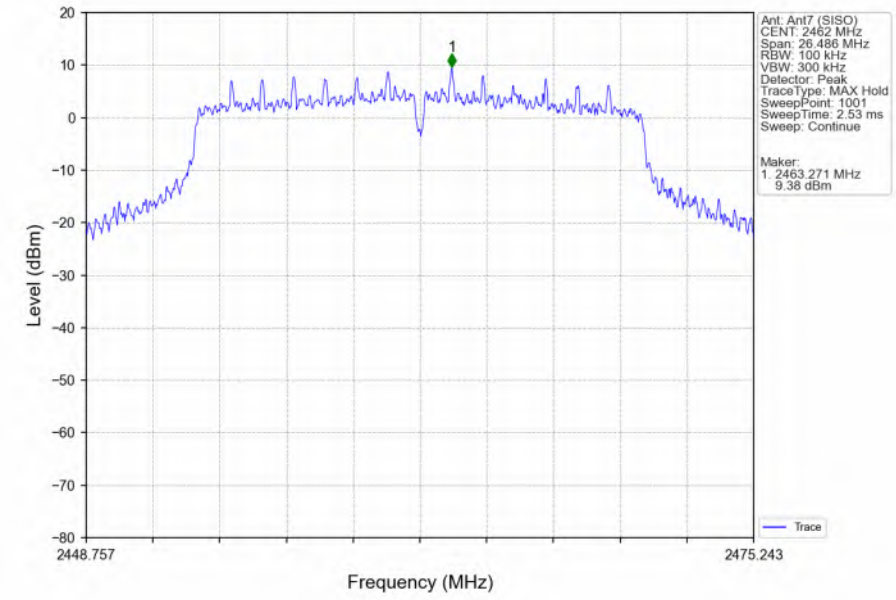
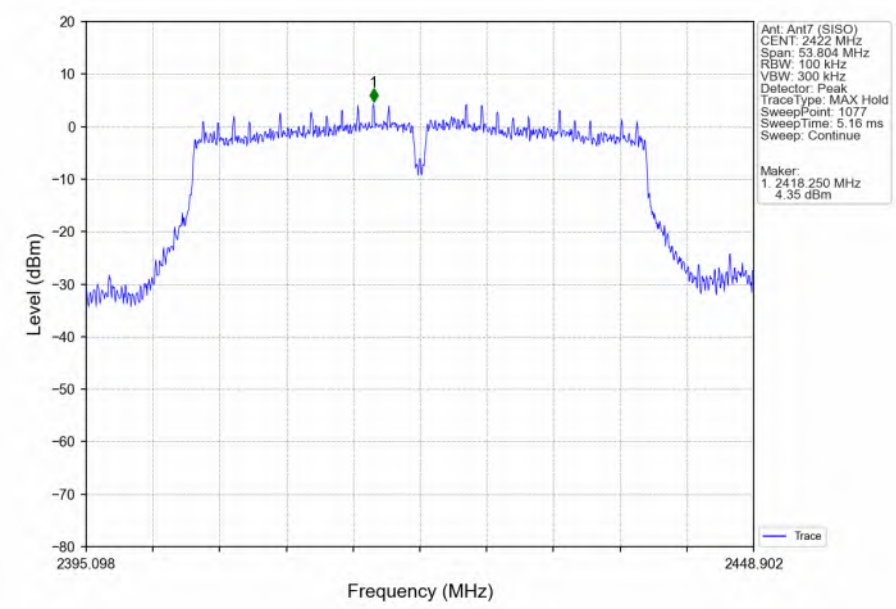
802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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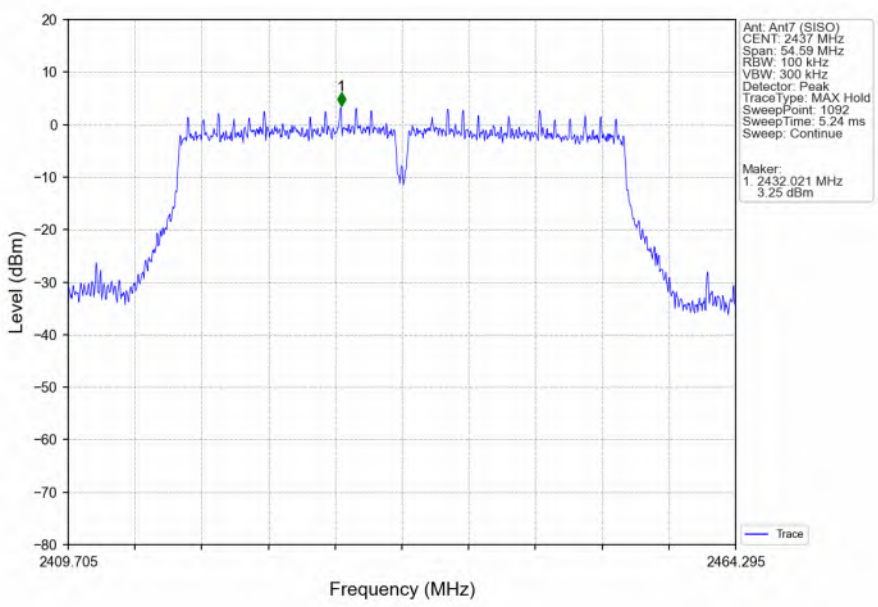
802.11n(HT40)_MCH_2437MHz_Ant7 (SISO)_NTNV



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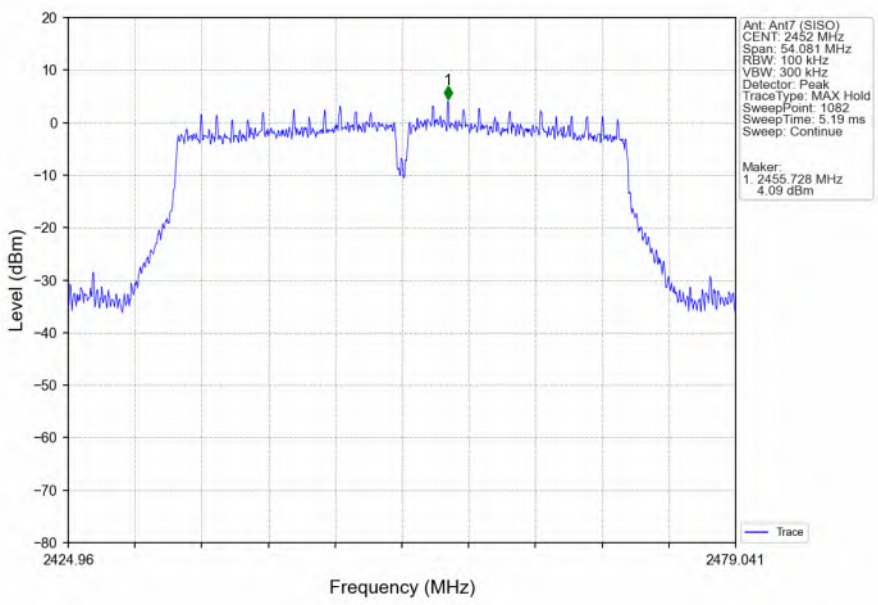

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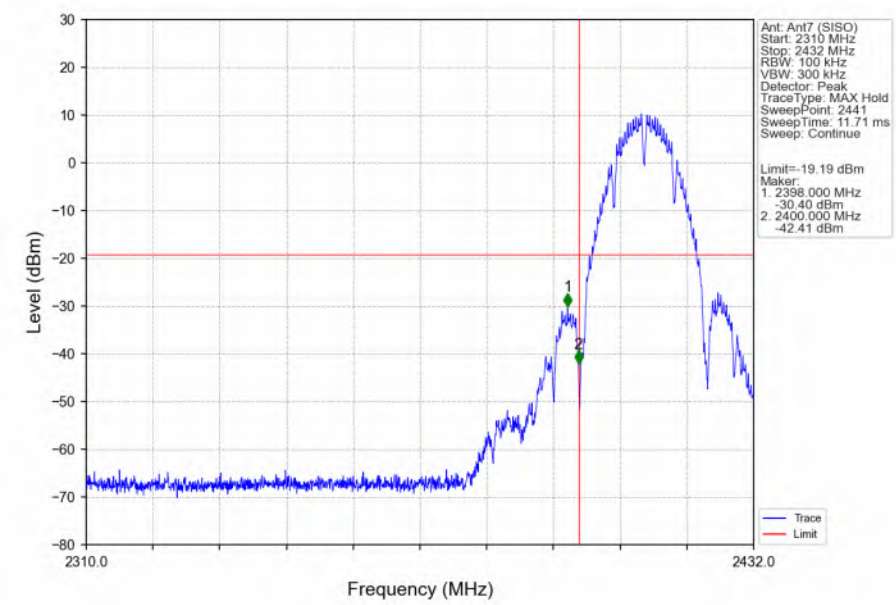
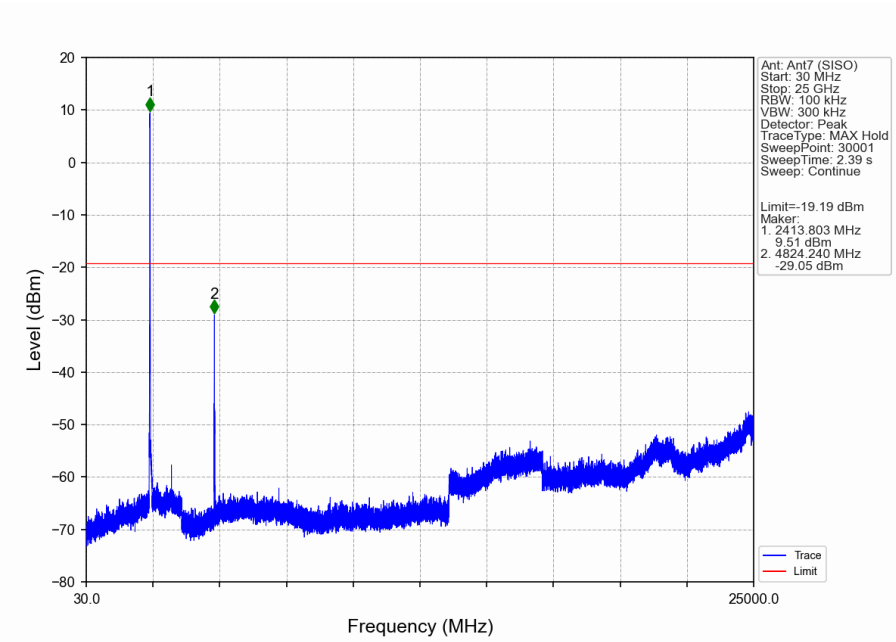
5.2.2 CSE

802.11b_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant7 (SISO)_NTNV



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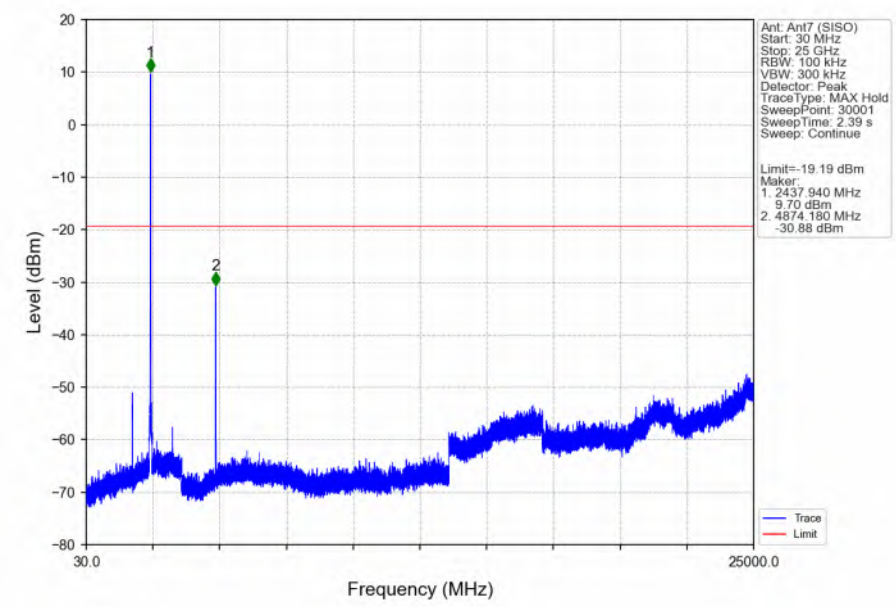
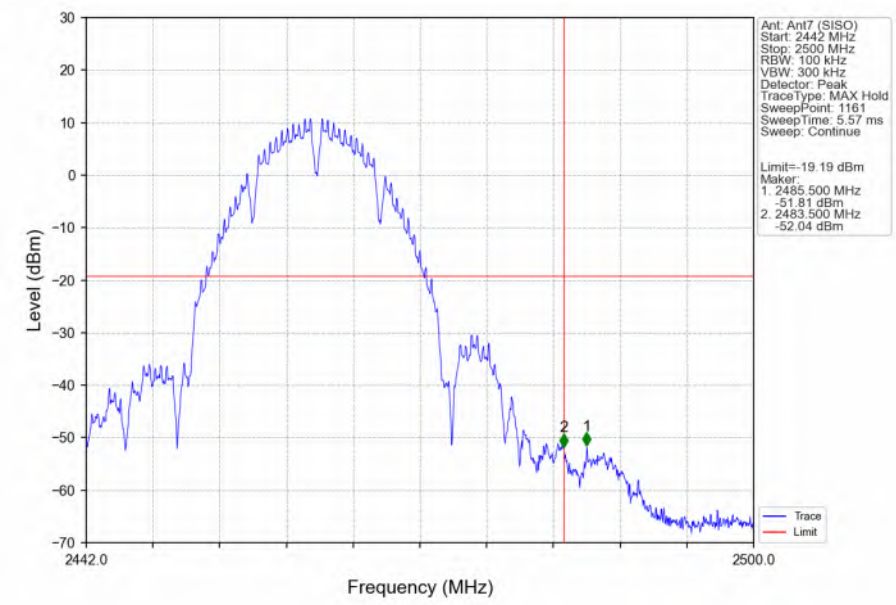
802.11b_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



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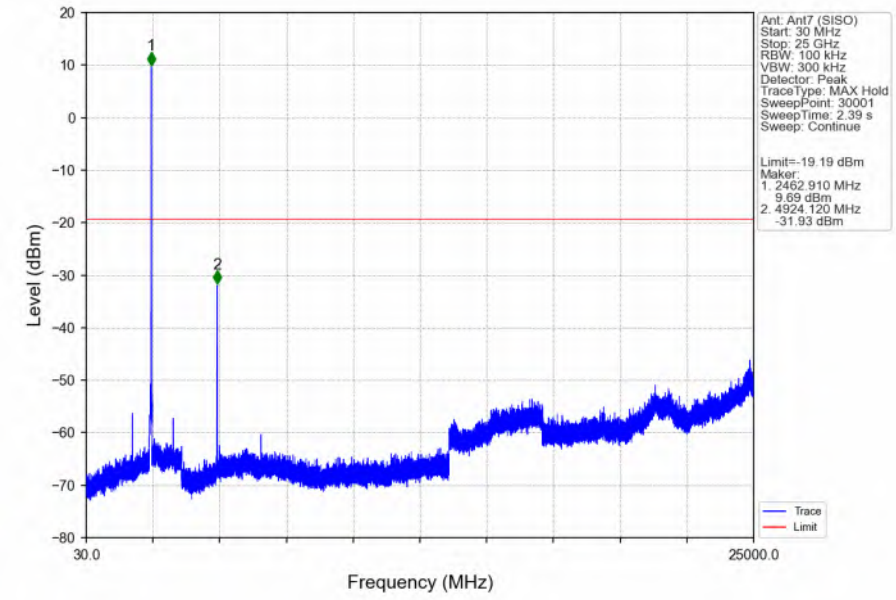
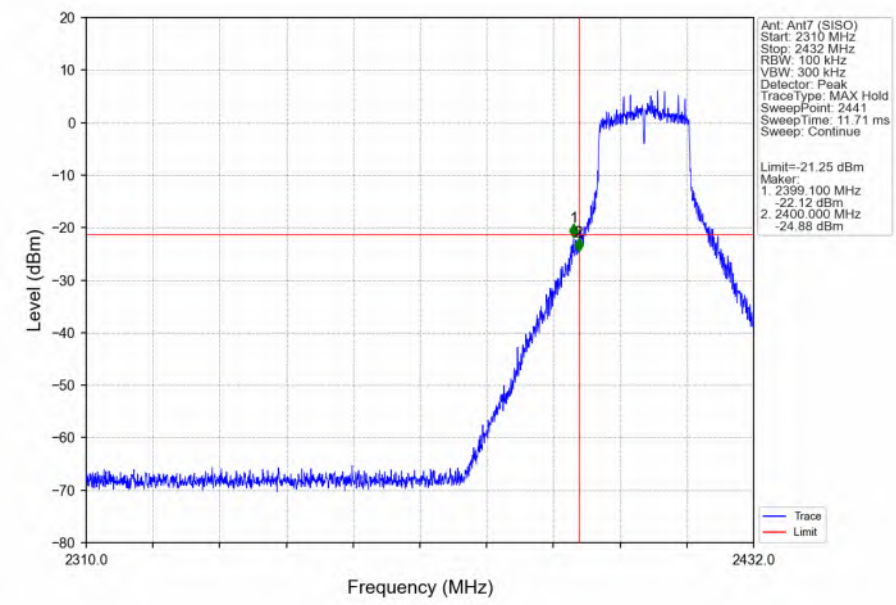
802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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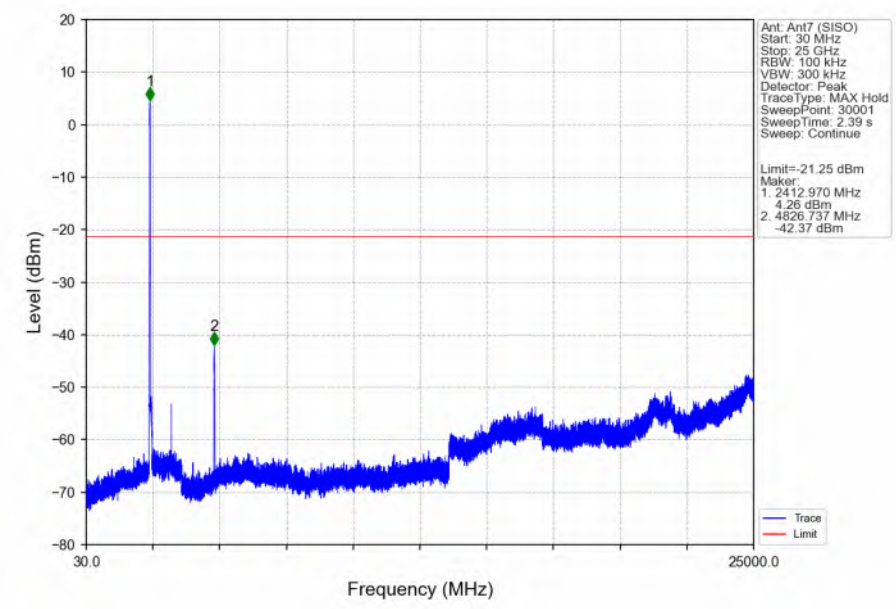
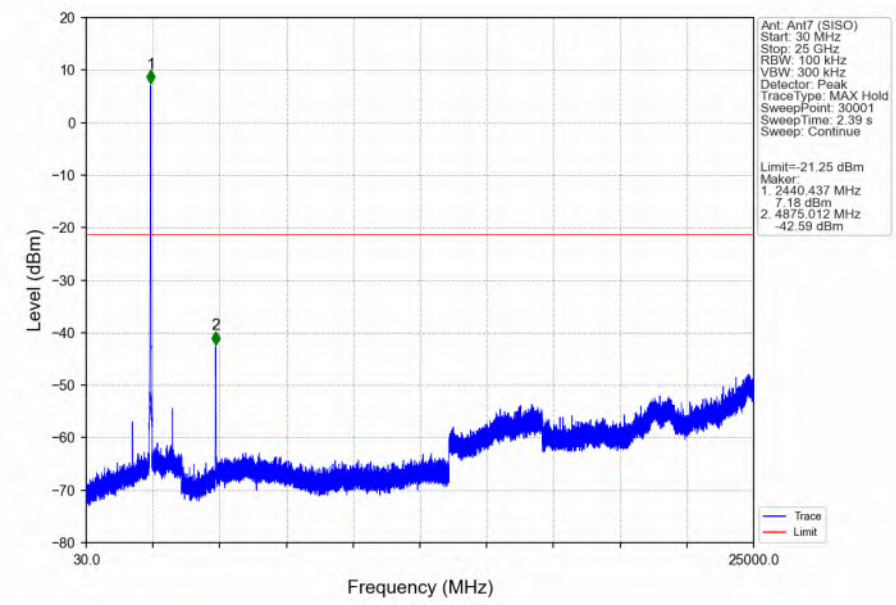
802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



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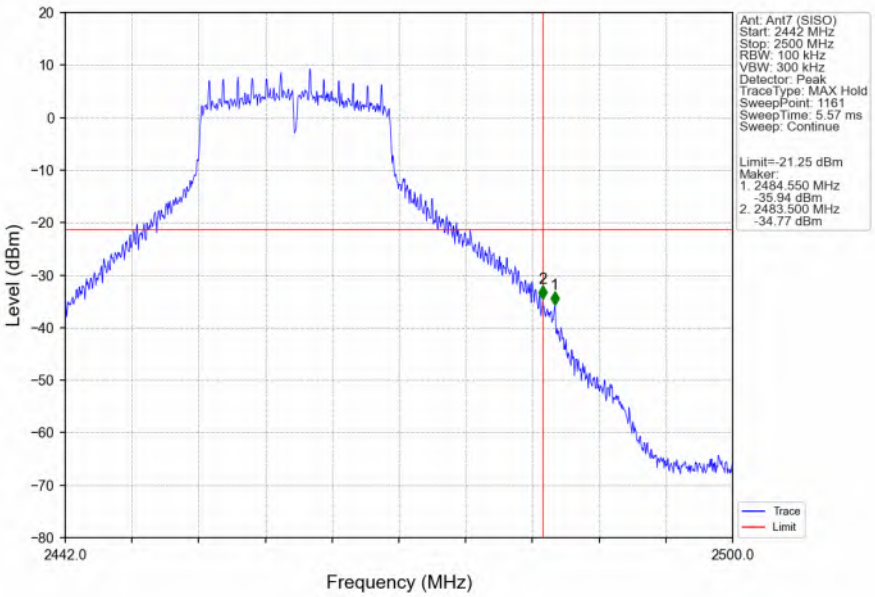
802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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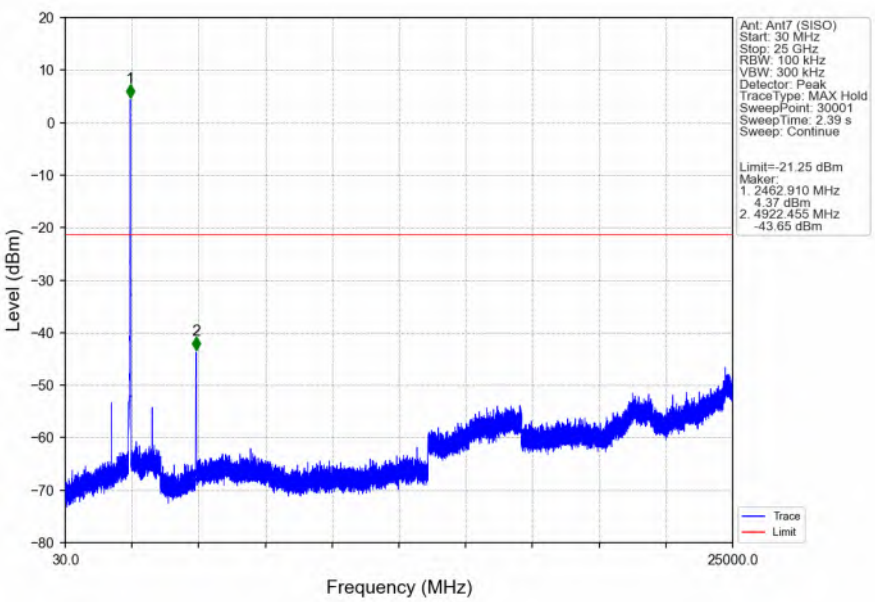

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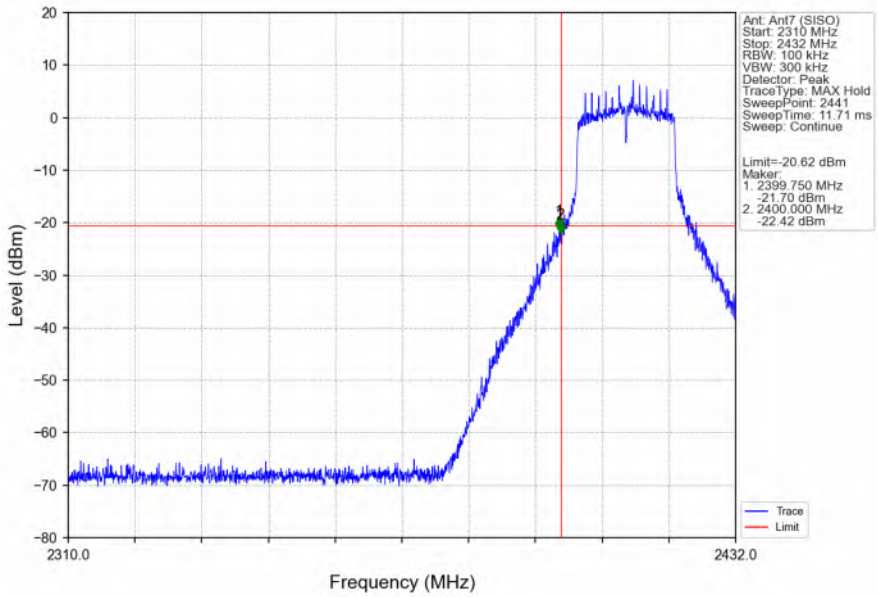
802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



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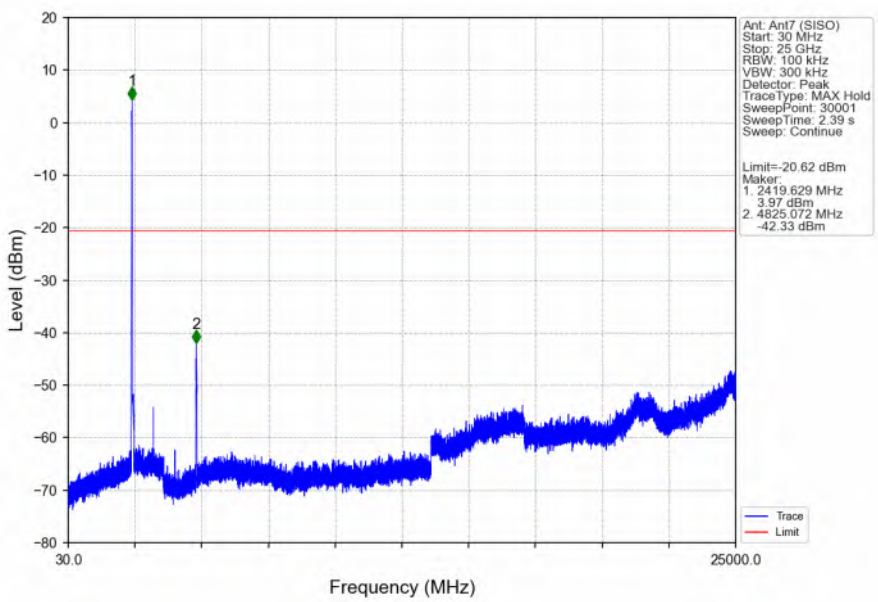

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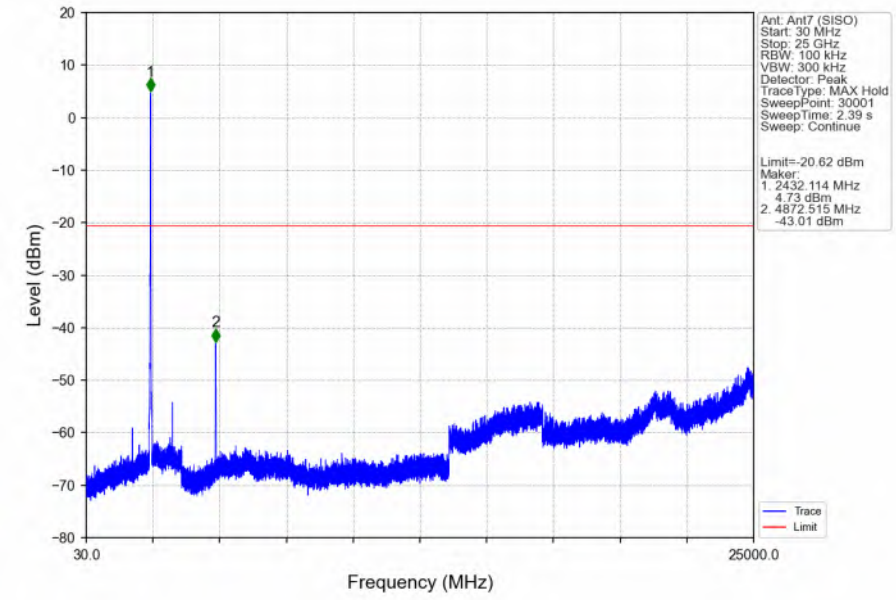
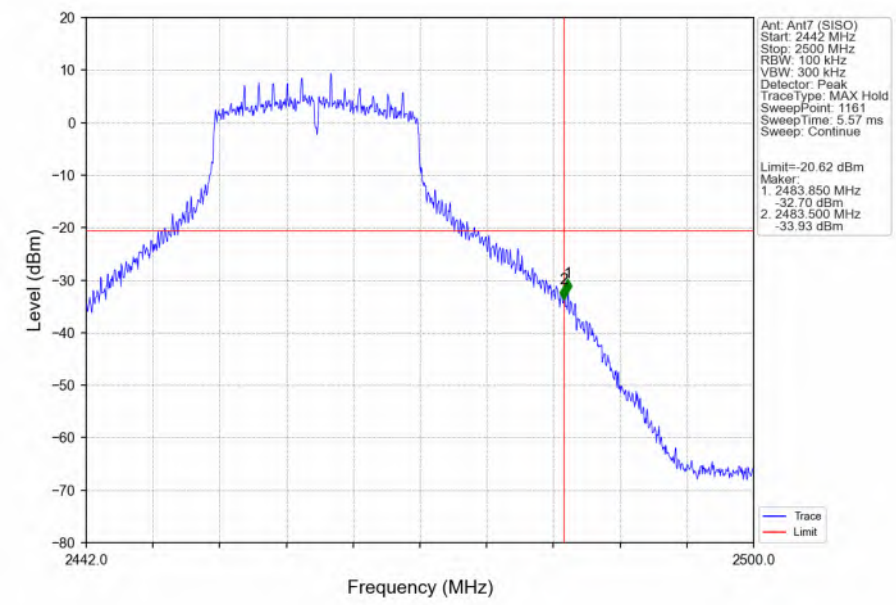
802.11n(HT20)_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



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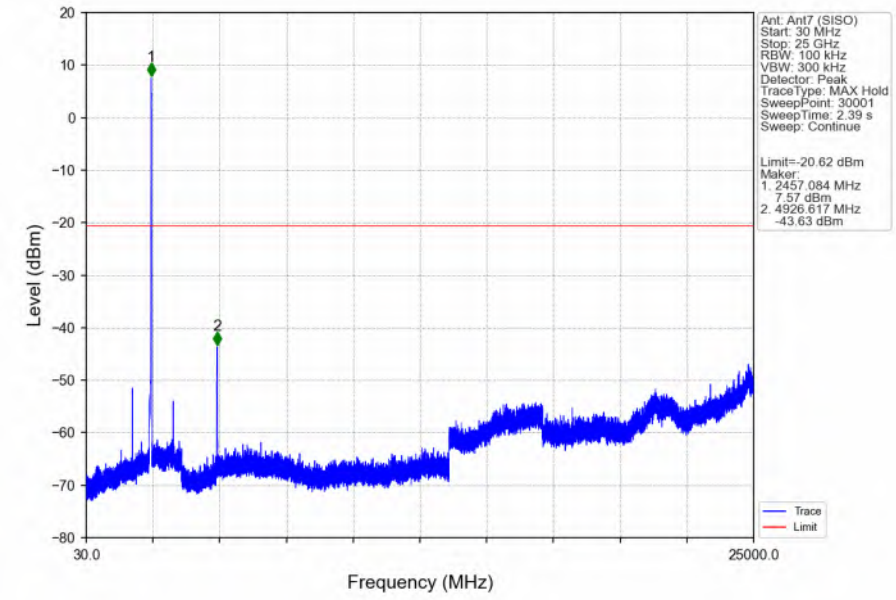
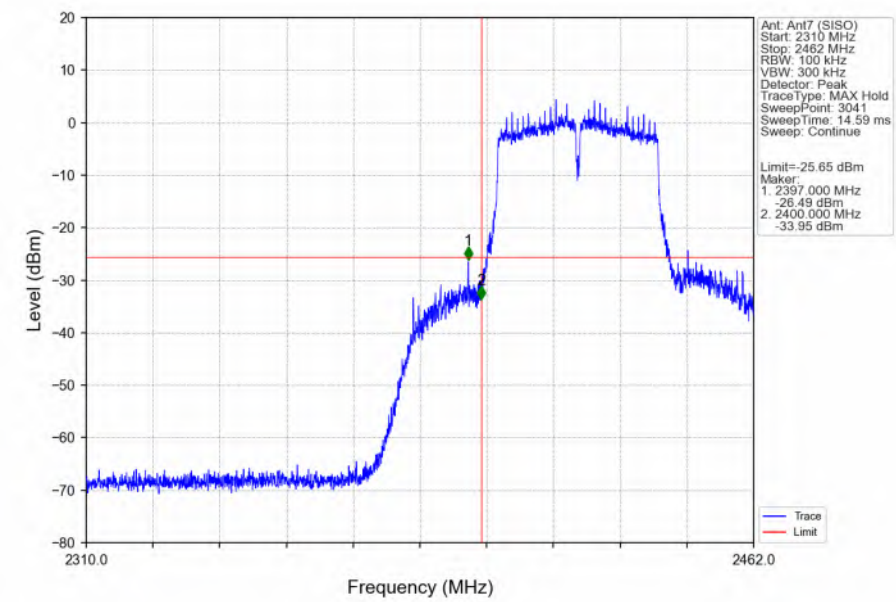


802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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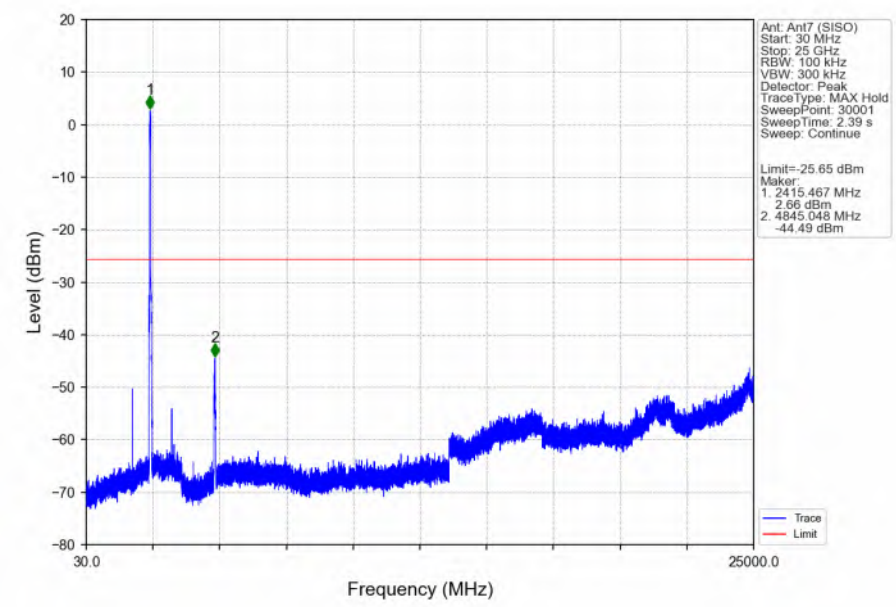

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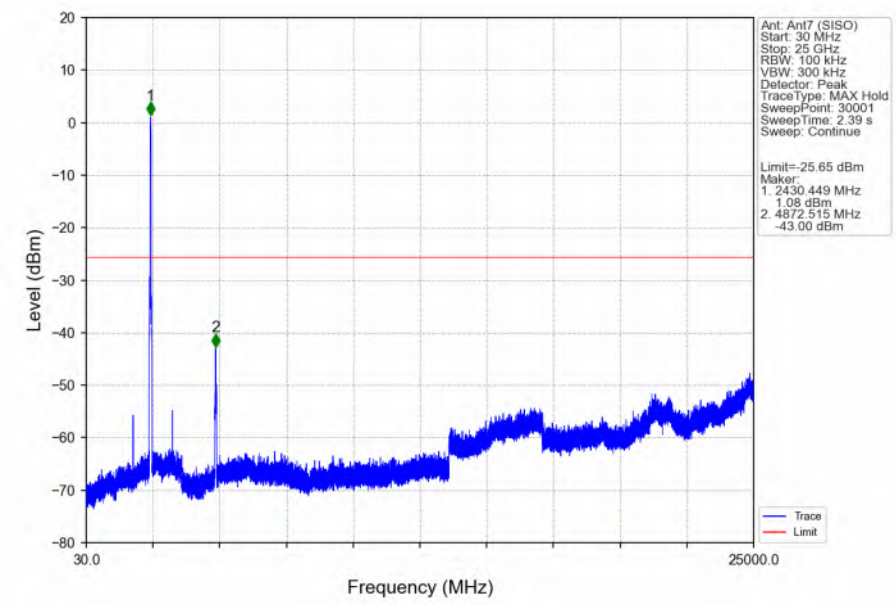

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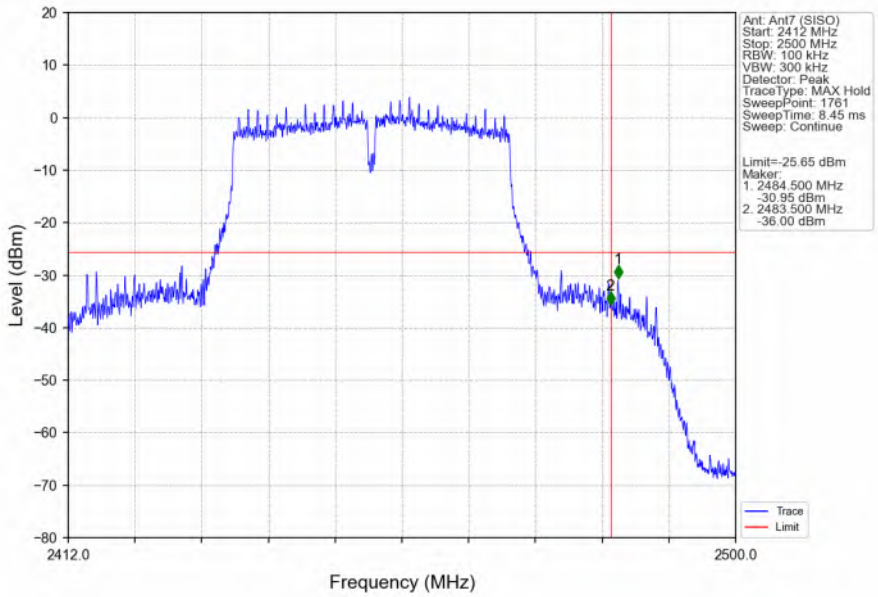
802.11n(HT40)_HCH_2452MHz_Ant7 (SISO)_NTNV



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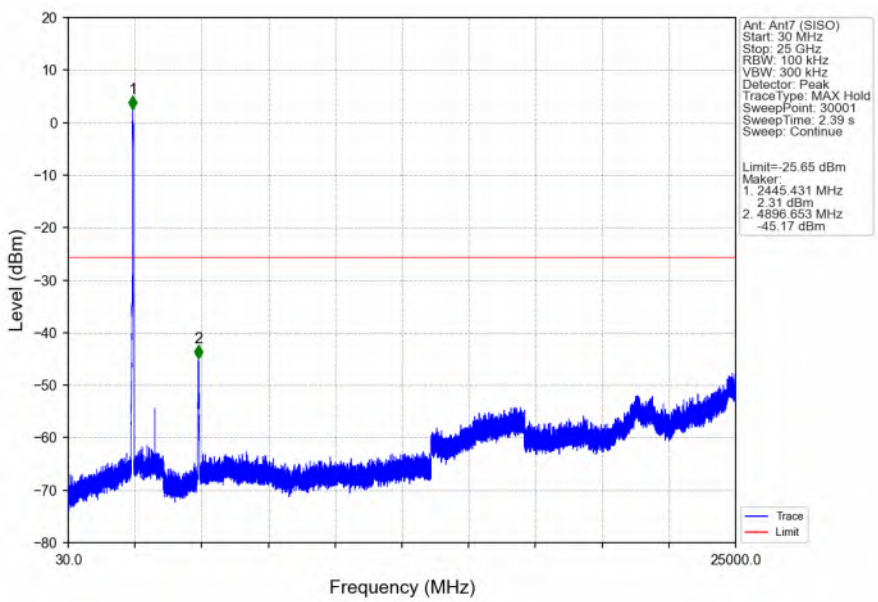

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