



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360405

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TEST REPORT

Application No.: SZCR2409003604WM
Applicant: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Applicant: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong,China
Manufacturer: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Manufacturer: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong,China
Equipment Under Test (EUT):
EUT Description: Mobile Phone
Model No.: CPH2697
Trade Mark: OPPO
FCC ID: R9C-OP24261
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2024-09-23
Date of Test: 2024-10-18 to 2024-11-16
Date of Issue: 2024-11-25

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

Kenxu

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-11-25		Original

Authorized for issue by:				
		Sherlock Fang		
		Sherlock Fang/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 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass



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4 General Information

4.1 Details of E.U.T.

EUT Description:	Mobile Phone	
Model No.:	CPH2697	
Trade Mark:	OPPO	
Hardware Version:	11	
Software Version:	ColorOS 15.0	
Power Supply:	DC 3.92V from internal rechargeable battery which can be charged by AC/DC adapter	
Operation Frequency:	802.11b/g/n(HT20)/VHT20/ax(HE20):	2412MHz to 2462MHz
	802.11n(HT40)/VHT40/ax(HE40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11VHT:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/VHT20/ax(HE20): 11	
	802.11n(HT40)/VHT40/ax(HE40): 7	
Channel Spacing:	5MHz	
Smart System:	☒ SISO	802.11b/g/n/VHT/ax
	☒ MIMO	802.11b/g/n/VHT/ax: 2Tx & 2Rx
	☒ Diversity	CDD:802.11b/g : 2Tx & 2Rx
Antenna Type:	IFA Antenna	
Antenna Gain:	-0.1dBi(Ant7);-1.69(Ant12)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2000MHz ~ 3000MHz (1.1dB)	
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4.2 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	38.9-50.8 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22.5~24.5	3.92
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.
--	--	--	--
The EUT has been tested as an independent unit.			

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
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	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

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	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

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	2024-01-30	2025-01-29
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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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	2024-01-30	2025-01-29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is an IFA Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

The best-case gain of the antenna is -0.1dBi(Ant7);-1.69(Ant12).*

**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.

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 (2013) Section 6.2

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: 22.5 °C

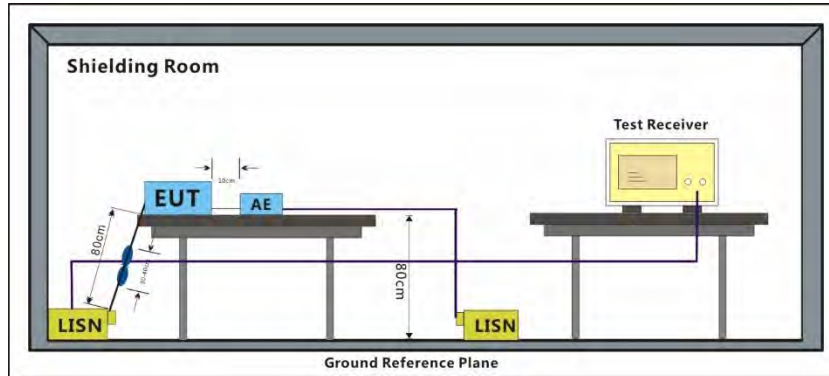
Humidity: 44.5 % RH

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. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram

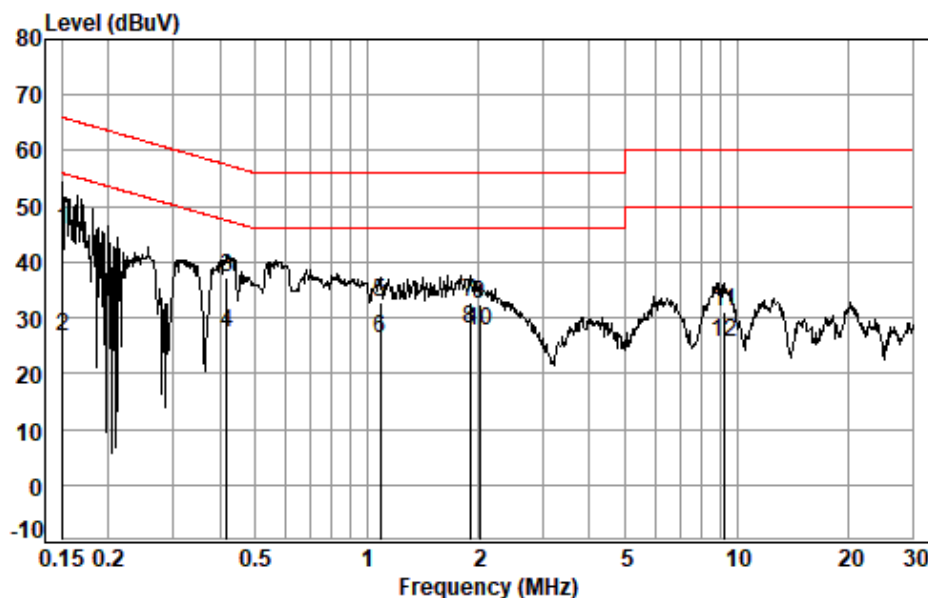


7.1.4 Measurement Procedure and Data

- 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

Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03604WM
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1508	0.06	9.81	35.86	45.73	65.96	-20.23	QP
2	0.1508	0.06	9.81	16.79	26.66	55.96	-29.30	Average
3 *	0.4193	0.07	9.72	27.54	37.33	57.46	-20.13	QP
4	0.4193	0.07	9.72	17.65	27.44	47.46	-20.02	Average
5	1.0881	0.09	9.70	22.86	32.65	56.00	-23.35	QP
6	1.0881	0.09	9.70	16.62	26.41	46.00	-19.59	Average
7	1.8979	0.10	9.66	23.15	32.91	56.00	-23.09	QP
8 *	1.8979	0.10	9.66	18.09	27.85	46.00	-18.15	Average
9	2.0225	0.10	9.66	22.68	32.44	56.00	-23.56	QP
10	2.0225	0.10	9.66	17.92	27.68	46.00	-18.32	Average
11	9.3024	0.19	9.90	20.90	30.99	60.00	-29.01	QP
12	9.3024	0.19	9.90	15.33	25.42	50.00	-24.58	Average



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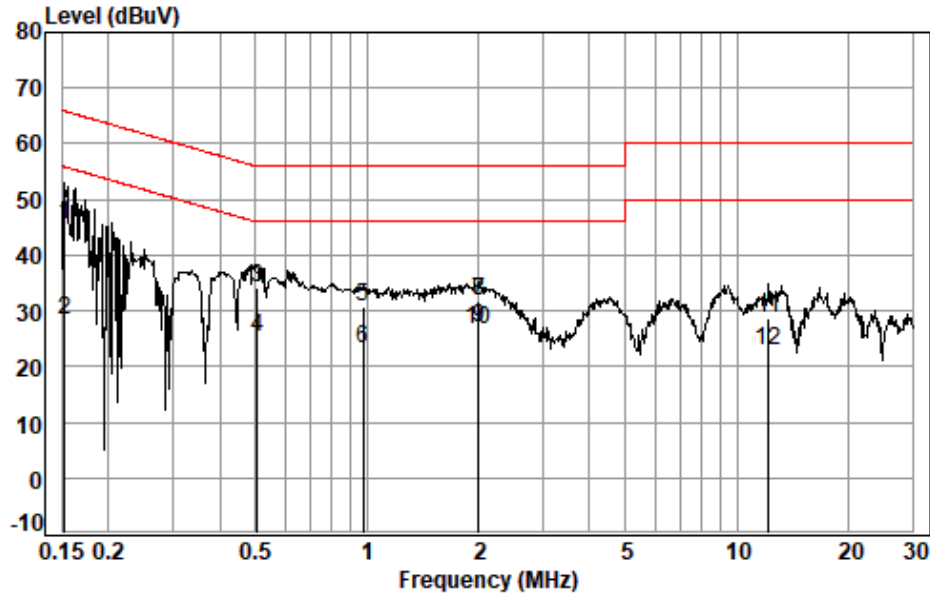
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Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03604WM
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1524	0.06	9.82	35.63	45.51	65.87	-20.36	QP
2	0.1524	0.06	9.82	18.53	28.41	55.87	-27.46	Average
3	0.5047	0.08	9.72	24.27	34.07	56.00	-21.93	QP
4	0.5047	0.08	9.72	15.54	25.34	46.00	-20.66	Average
5	0.9787	0.09	9.73	20.85	30.67	56.00	-25.33	QP
6	0.9787	0.09	9.73	13.39	23.21	46.00	-22.79	Average
7	2.0012	0.10	9.69	21.85	31.64	56.00	-24.36	QP
8	2.0012	0.10	9.69	21.81	31.60	56.00	-24.40	QP
9 *	2.0012	0.10	9.69	17.03	26.82	46.00	-19.18	Average
10	2.0012	0.10	9.69	16.89	26.68	46.00	-19.32	Average
11	12.1884	0.23	10.08	18.23	28.54	60.00	-31.46	QP
12	12.1884	0.23	10.08	12.46	22.77	50.00	-27.23	Average



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SZEMC-TRF-01 Rev. A/1

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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 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C

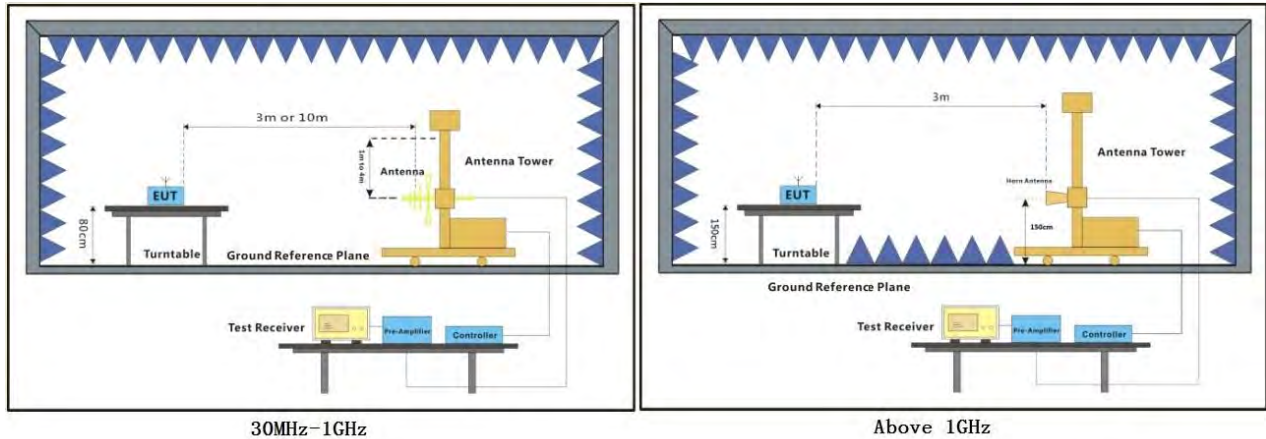
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 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. 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

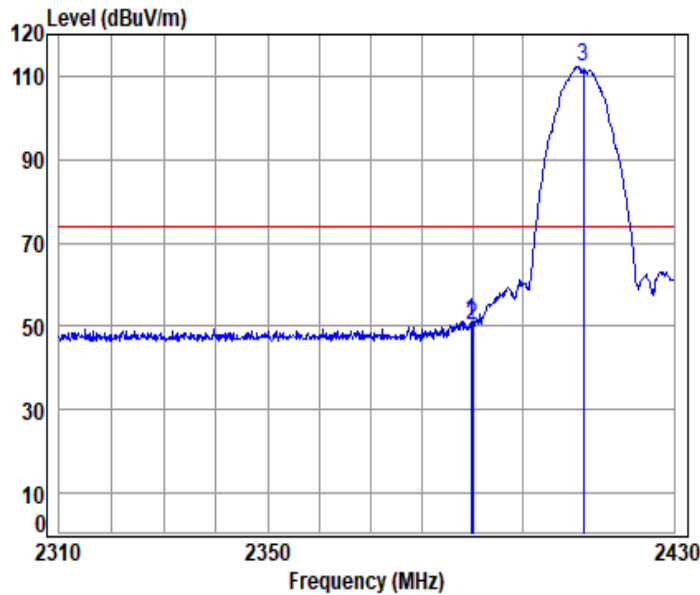
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

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

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



11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

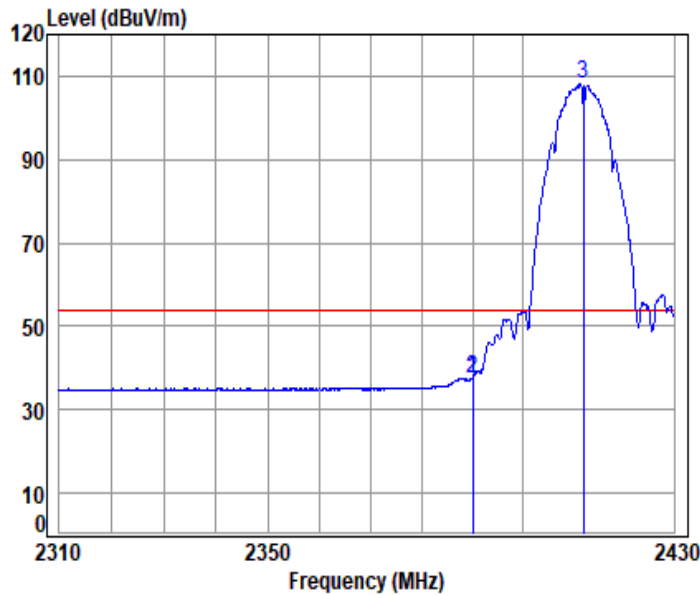
Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.726	6.82	27.46	31.54	48.47	51.21	74.00 -22.79 peak
2	2390.000	6.82	27.46	31.54	47.56	50.30	74.00 -23.70 peak
3	pp 2412.000	6.91	27.52	31.54	109.23	112.12	74.00 38.12 peak

11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.968	6.82	27.46	31.54	34.90	37.64	54.00	-16.36	Average
2 2390.000	6.82	27.46	31.54	34.90	37.64	54.00	-16.36	Average
3 pp 2412.000	6.91	27.52	31.54	105.44	108.33	54.00	54.33	Average



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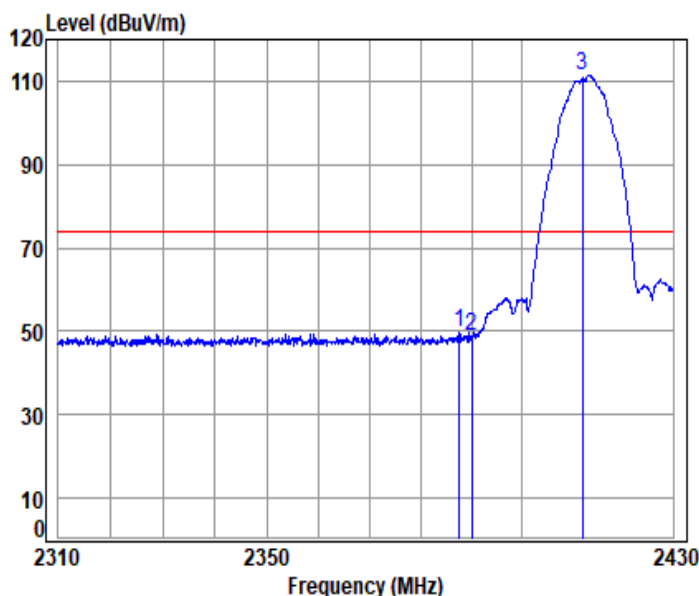
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11b_TX_CH_01_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.670	6.82	27.45	31.54	46.92	49.65	74.00 -24.35 peak
2	2390.000	6.82	27.46	31.54	46.27	49.01	74.00 -24.99 peak
3	2412.000	6.91	27.52	31.54	108.39	111.28	74.00 37.28 peak



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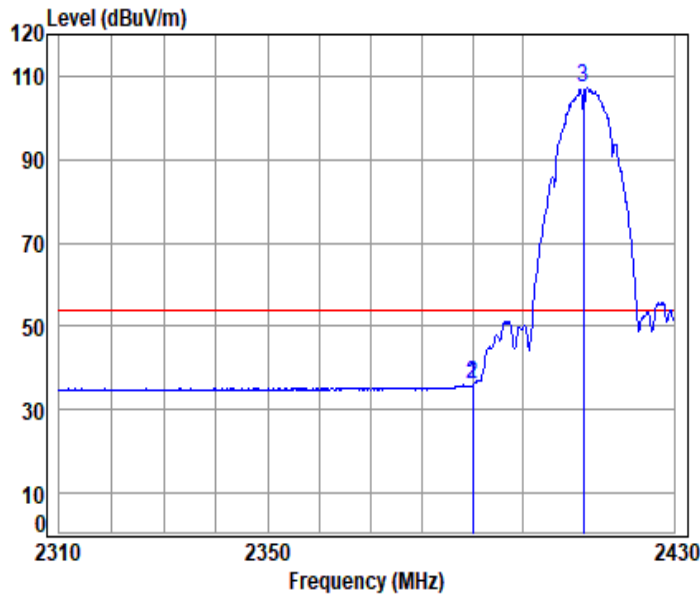
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11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.968	6.82	27.46	31.54	33.15	35.89	54.00	-18.11	Average
2 2390.000	6.82	27.46	31.54	33.15	35.89	54.00	-18.11	Average
3 pp 2412.000	6.91	27.52	31.54	104.51	107.40	54.00	53.40	Average



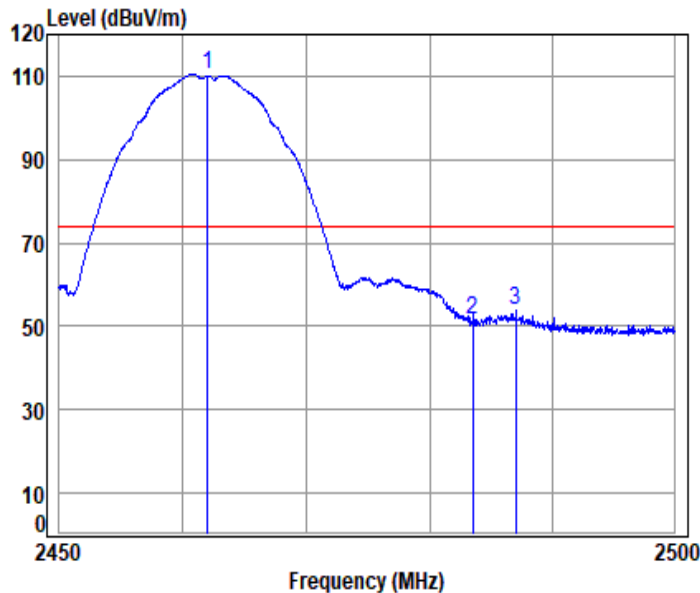
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11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

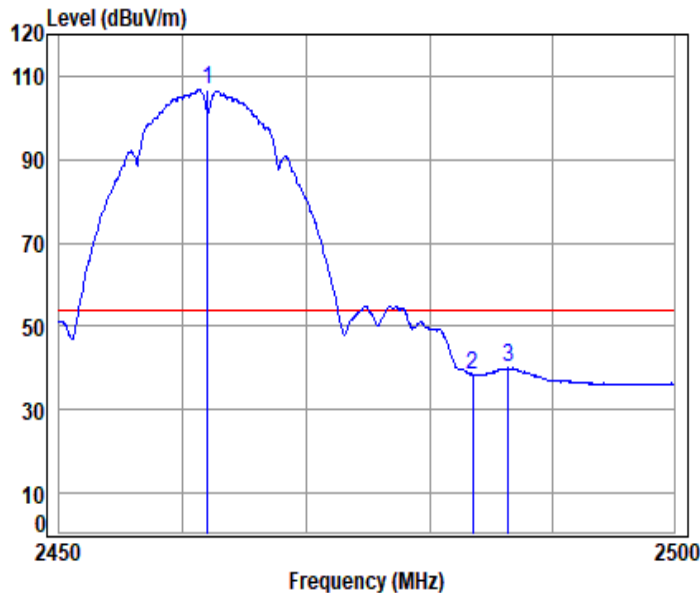
Mode : 2462 Band edge

: 2.4GWIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	107.02	110.39	74.00	36.39 peak
2	2483.500	7.40	27.80	31.55	47.89	51.54	74.00	-22.46 peak
3	2487.053	7.42	27.82	31.55	49.94	53.63	74.00	-20.37 peak



11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

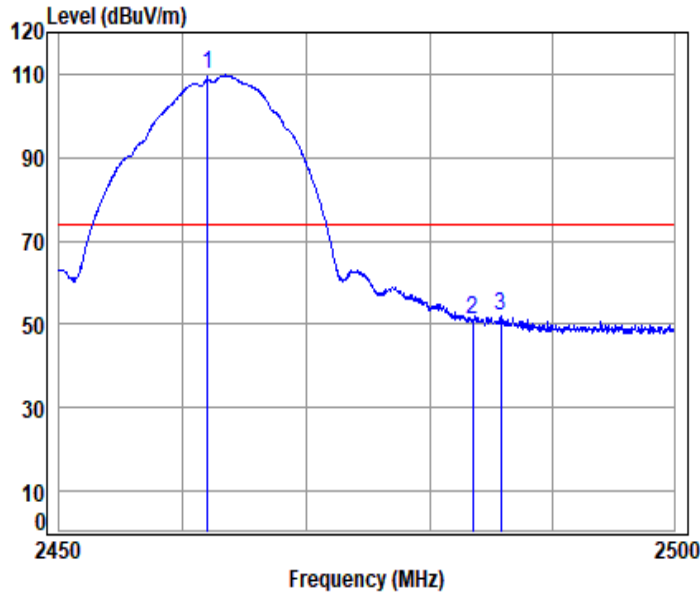
Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	103.32	106.69	54.00	52.69 Average
2	2483.500	7.40	27.80	31.55	34.72	38.37	54.00	-15.63 Average
3	2486.450	7.42	27.82	31.55	36.34	40.03	54.00	-13.97 Average

11b_TX_CH_11_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	106.37	109.74	74.00	35.74	peak
2	2483.500	7.40	27.80	31.55	47.38	51.03	74.00	-22.97	peak
3	2485.848	7.41	27.82	31.55	48.27	51.95	74.00	-22.05	peak



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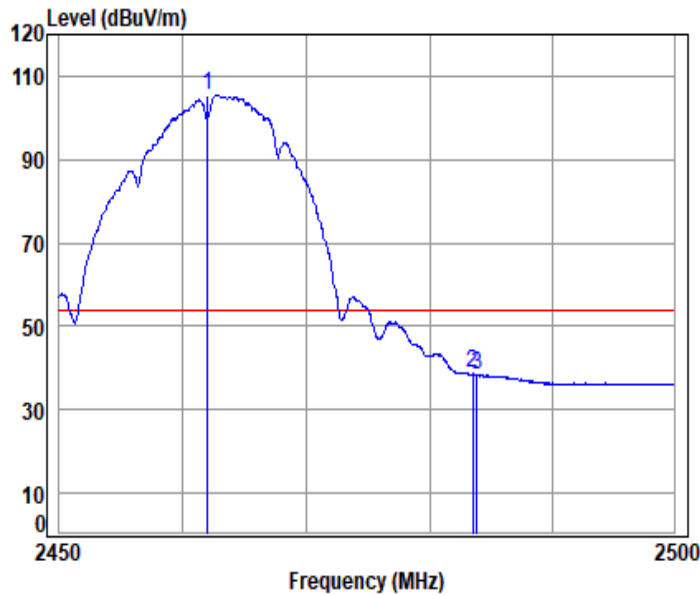
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11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	102.18	105.55	54.00	51.55 Average
2	2483.500	7.40	27.80	31.55	34.92	38.57	54.00	-15.43 Average
3	2483.840	7.40	27.80	31.55	34.66	38.31	54.00	-15.69 Average



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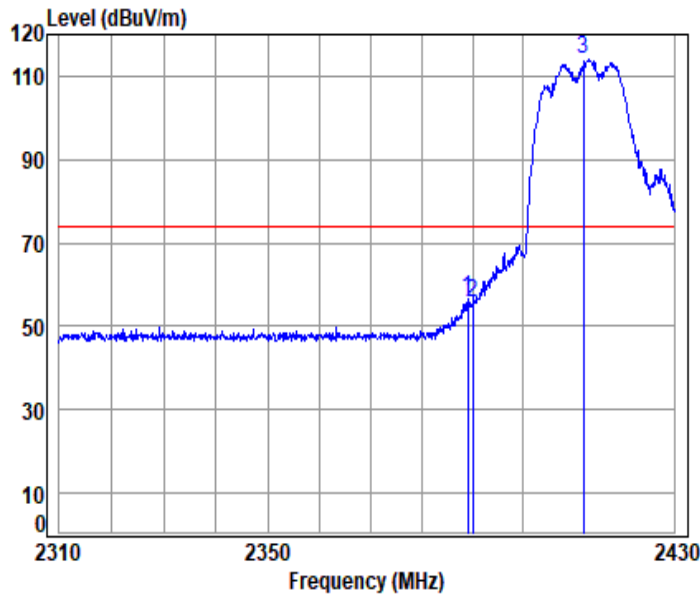
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11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.000	6.82	27.46	31.54	54.02	56.76	74.00	-17.24 peak
2 2390.000	6.82	27.46	31.54	52.76	55.50	74.00	-18.50 peak
3 pp 2412.000	6.91	27.52	31.54	111.26	114.15	74.00	40.15 peak



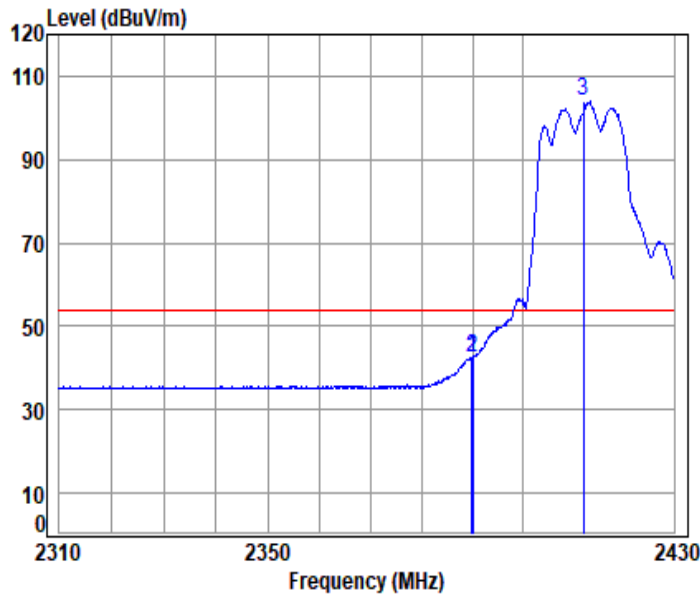
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11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

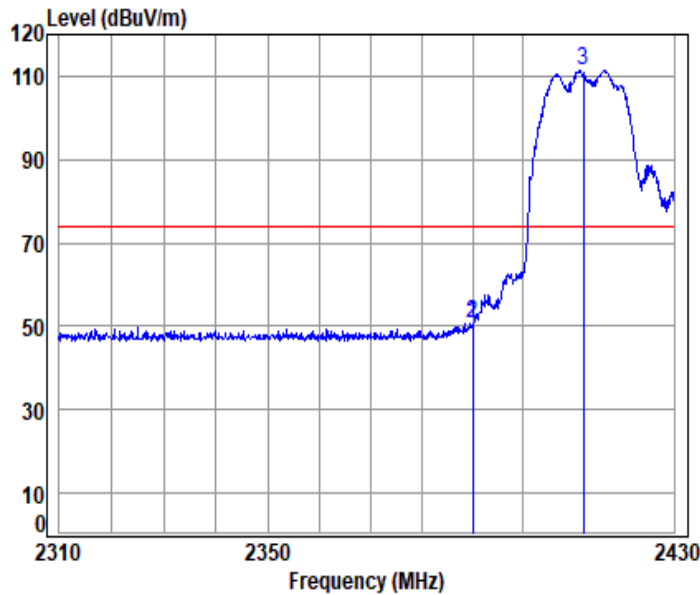
Mode : 2412 Band edge

: 2.4GWIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.847	6.82	27.46	31.54	39.84	42.58	54.00	-11.42	Average
2 2390.000	6.82	27.46	31.54	39.76	42.50	54.00	-11.50	Average
3 pp 2412.000	6.91	27.52	31.54	100.96	103.85	54.00	49.85	Average



11g_TX_CH_01_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.968	6.82	27.46	31.54	48.09	50.83	74.00	-23.17	peak
2 2390.000	6.82	27.46	31.54	48.09	50.83	74.00	-23.17	peak
3 pp 2412.000	6.91	27.52	31.54	108.51	111.40	74.00	37.40	peak



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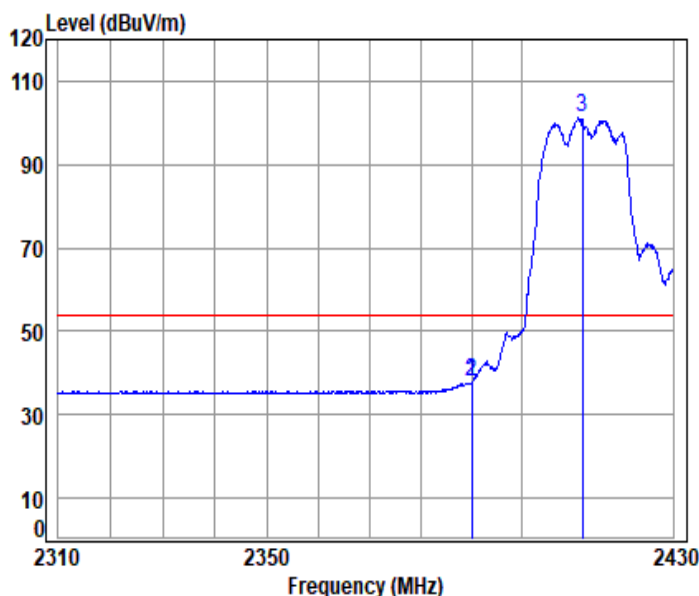
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11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11G

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.968	6.82	27.46	31.54	35.13	37.87	54.00	-16.13	Average
2 2390.000	6.82	27.46	31.54	35.13	37.87	54.00	-16.13	Average
3 pp 2412.000	6.91	27.52	31.54	98.44	101.33	54.00	47.33	Average



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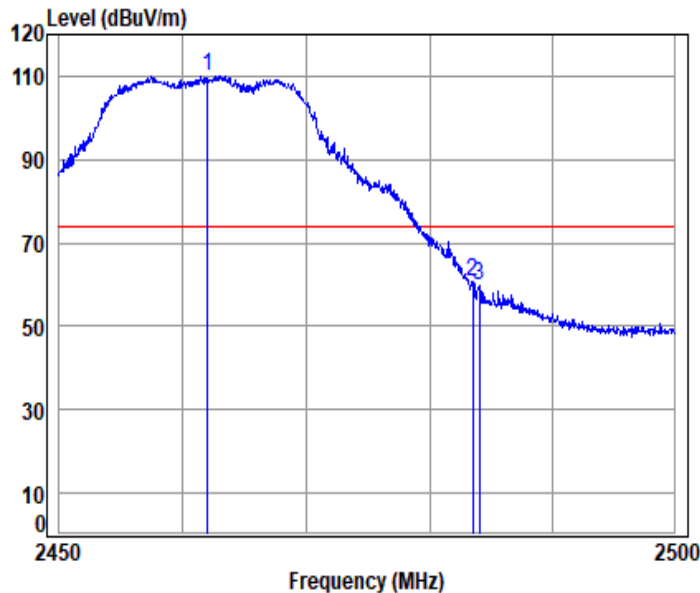
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11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2462.000	7.25	27.67	31.55	106.75	110.12	74.00	36.12 peak
2	2483.500	7.40	27.80	31.55	57.00	60.65	74.00	-13.35 peak
3	2484.041	7.40	27.80	31.55	55.91	59.56	74.00	-14.44 peak



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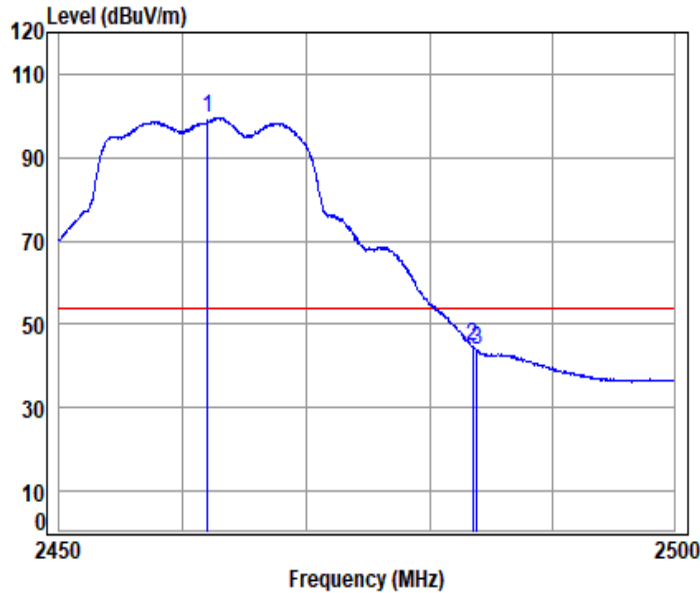
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11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2462.000	7.25	27.67	31.55	96.25	99.62	54.00	45.62 Average
2	2483.500	7.40	27.80	31.55	41.05	44.70	54.00	-9.30 Average
3	2483.840	7.40	27.80	31.55	40.19	43.84	54.00	-10.16 Average



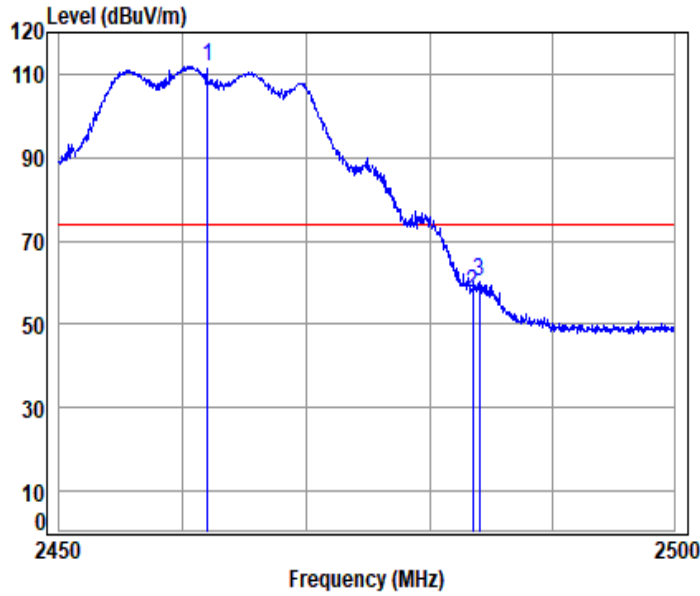
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11g_TX_CH_11_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2462.000	7.25	27.67	31.55	108.45	111.82	74.00	37.82 peak
2	2483.500	7.40	27.80	31.55	53.72	57.37	74.00	-16.63 peak
3	2484.041	7.40	27.80	31.55	56.70	60.35	74.00	-13.65 peak



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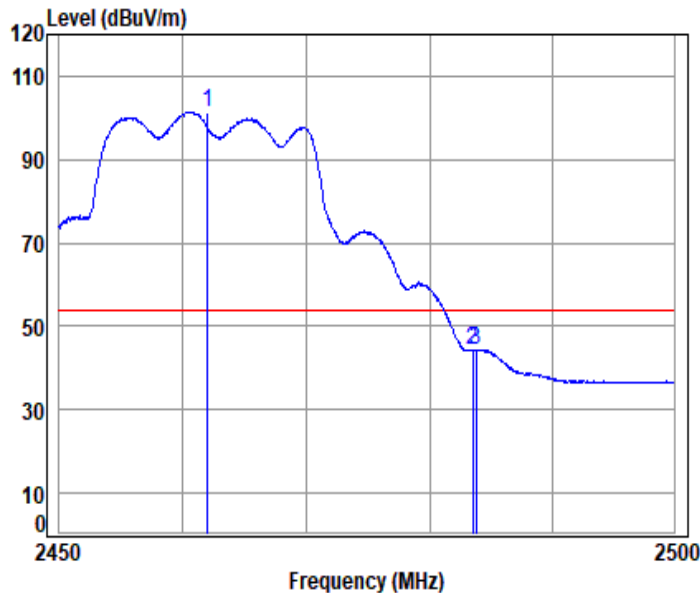
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11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2462.000	7.25	27.67	31.55	98.06	101.43	54.00	47.43 Average
2	2483.500	7.40	27.80	31.55	40.53	44.18	54.00	-9.82 Average
3	2483.790	7.40	27.80	31.55	40.82	44.47	54.00	-9.53 Average



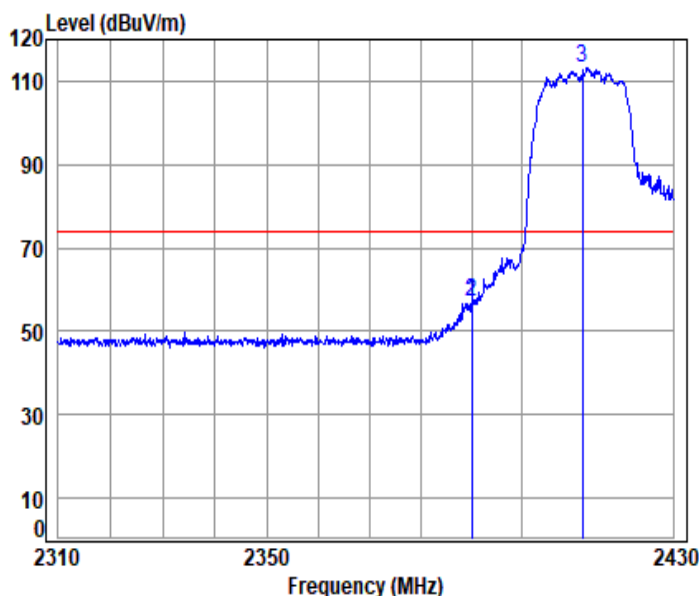
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11n_HT(20M)_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

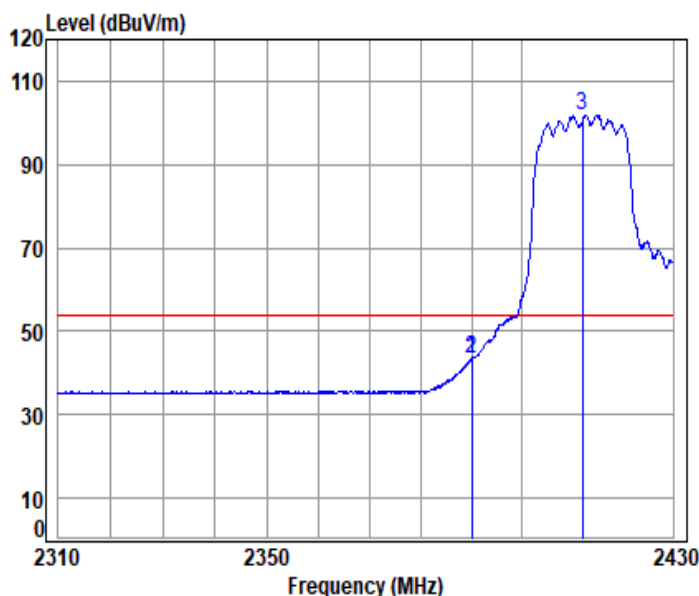
Mode : 2412 Band edge

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.968	6.82	27.46	31.54	54.43	57.17	74.00	-16.83 peak
2 2390.000	6.82	27.46	31.54	54.43	57.17	74.00	-16.83 peak
3 pp 2412.000	6.91	27.52	31.54	110.08	112.97	74.00	38.97 peak



11n_HT(20M)_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.968	6.82	27.46	31.54	40.61	43.35	54.00	-10.65	Average
2 2390.000	6.82	27.46	31.54	40.61	43.35	54.00	-10.65	Average
3 pp 2412.000	6.91	27.52	31.54	98.89	101.78	54.00	47.78	Average



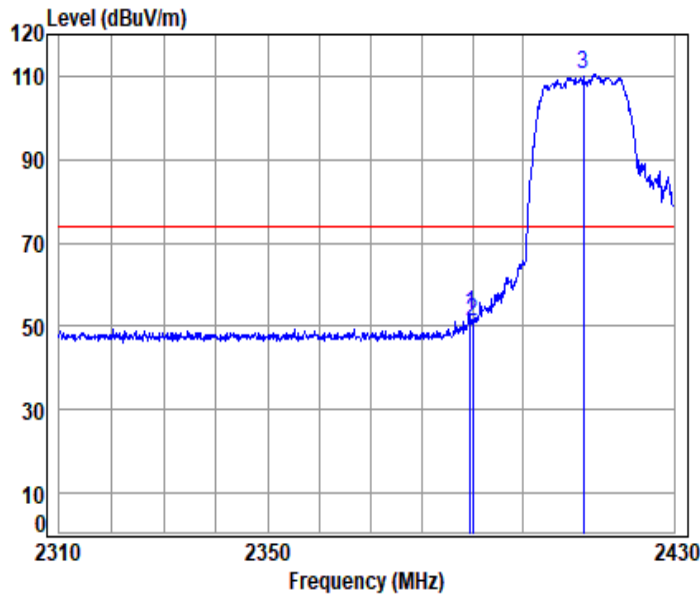
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11n_HT(20M)_TX_CH_01_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

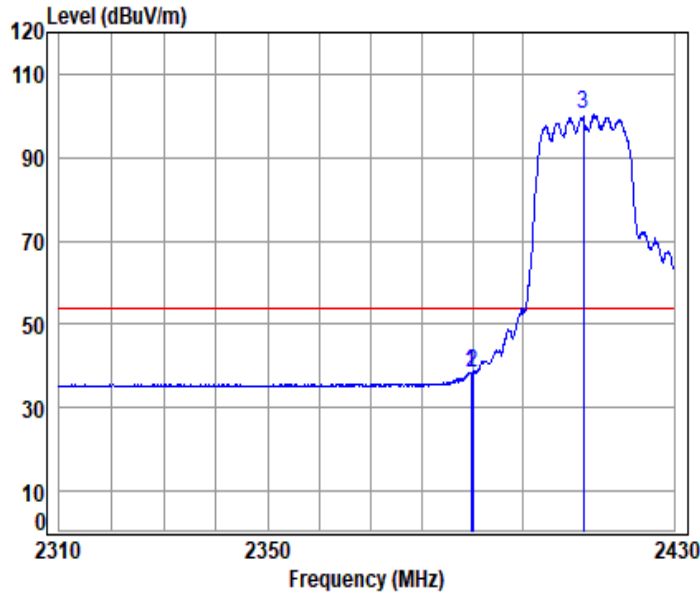
Mode : 2412 Band edge

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.605	6.82	27.46	31.54	50.03	52.77	74.00	-21.23	peak
2 2390.000	6.82	27.46	31.54	48.56	51.30	74.00	-22.70	peak
3 pp 2412.000	6.91	27.52	31.54	107.39	110.28	74.00	36.28	peak



11n_HT(20M)_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.726	6.82	27.46	31.54	35.77	38.51	54.00	-15.49	Average
2 2390.000	6.82	27.46	31.54	35.48	38.22	54.00	-15.78	Average
3 pp 2412.000	6.91	27.52	31.54	97.28	100.17	54.00	46.17	Average



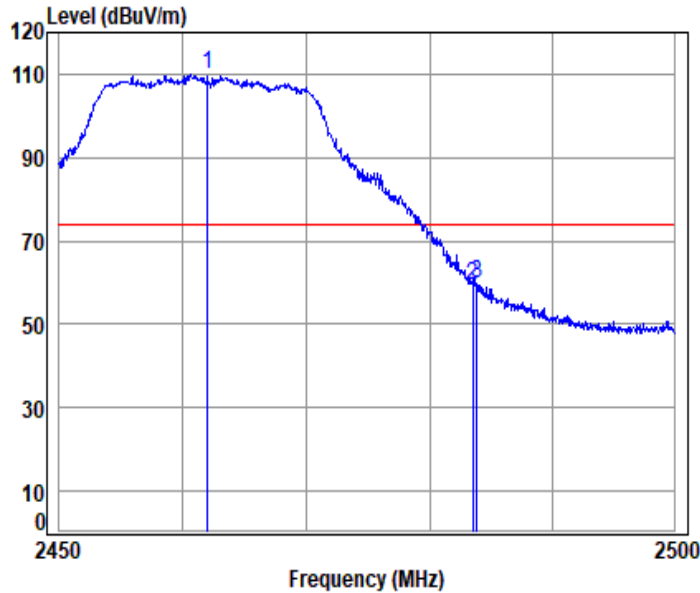
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11n_HT(20M)_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11N20 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2462.000	7.25	27.67	31.55	106.39	109.76	74.00	35.76 peak
2	2483.500	7.40	27.80	31.55	55.71	59.36	74.00	-14.64 peak
3	2483.840	7.40	27.80	31.55	56.02	59.67	74.00	-14.33 peak



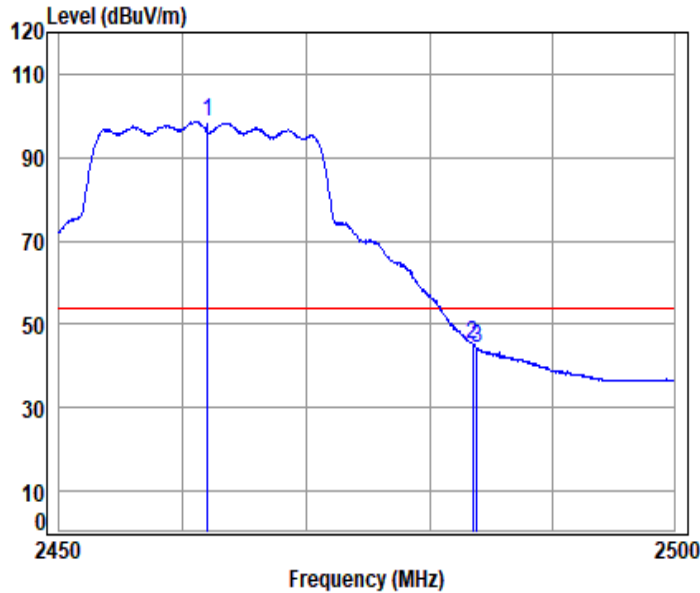
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11n_HT(20M)_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11N20 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	95.36	98.73	54.00	44.73 Average
2	2483.500	7.40	27.80	31.55	41.65	45.30	54.00	-8.70 Average
3	2483.890	7.40	27.80	31.55	40.72	44.37	54.00	-9.63 Average



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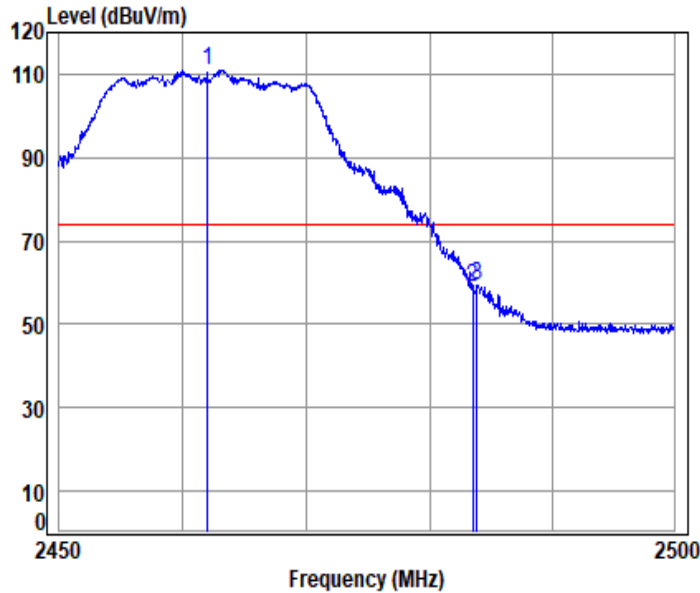
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11n_HT(20M)_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11N20 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2462.000	7.25	27.67	31.55	107.50	110.87	74.00	36.87 peak
2	2483.500	7.40	27.80	31.55	55.36	59.01	74.00	-14.99 peak
3	2483.840	7.40	27.80	31.55	55.59	59.24	74.00	-14.76 peak



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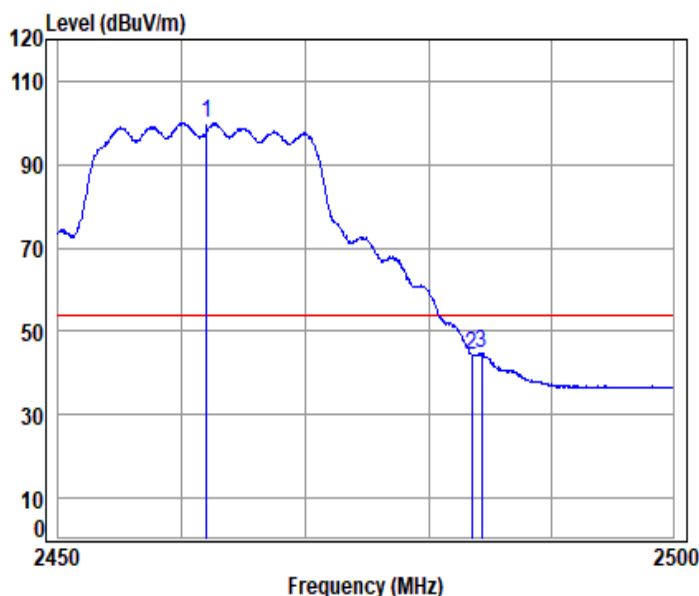
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11n_HT(20M)_TX_CH_11_Verical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11N20 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	96.48	99.85	54.00	45.85 Average
2	2483.500	7.40	27.80	31.55	40.78	44.43	54.00	-9.57 Average
3	2484.342	7.40	27.81	31.55	40.99	44.65	54.00	-9.35 Average



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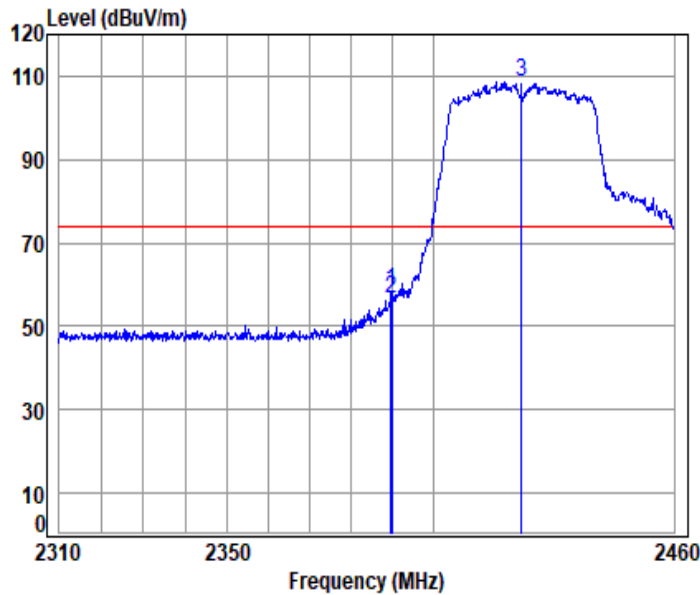
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11n_HT(40M)_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11N40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.827	6.82	27.46	31.54	55.55	58.29	74.00	-15.71	peak
2 2390.000	6.82	27.46	31.54	53.63	56.37	74.00	-17.63	peak
3 pp 2422.000	6.98	27.54	31.54	105.71	108.69	74.00	34.69	peak



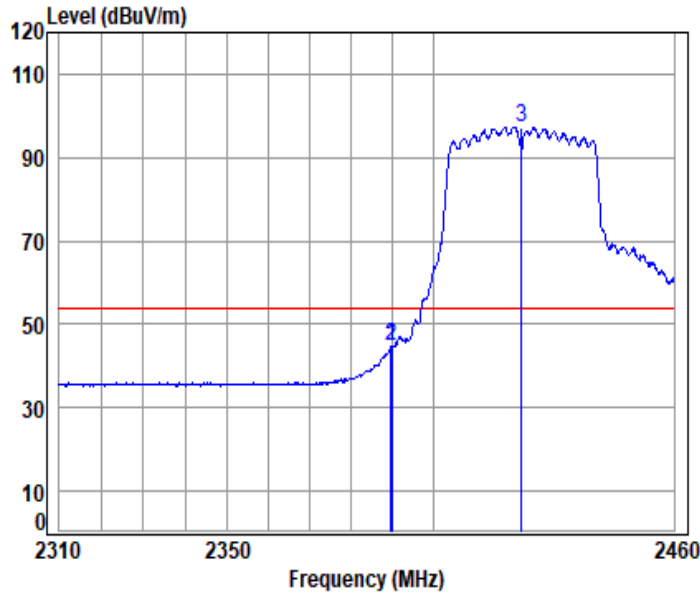
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11n_HT(40M)_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11N40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.827	6.82	27.46	31.54	41.95	44.69	54.00	-9.31	Average
2 2390.000	6.82	27.46	31.54	42.09	44.83	54.00	-9.17	Average
3 pp 2422.000	6.98	27.54	31.54	94.35	97.33	54.00	43.33	Average



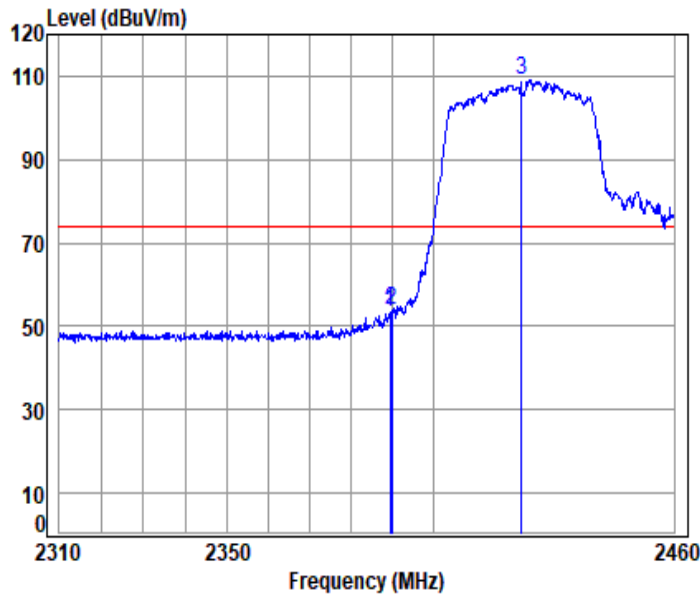
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11n_HT(40M)_TX_CH_03_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11N40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.526	6.82	27.46	31.54	50.63	53.37	74.00	-20.63 peak
2 2390.000	6.82	27.46	31.54	51.13	53.87	74.00	-20.13 peak
3 pp 2422.000	6.98	27.54	31.54	106.06	109.04	74.00	35.04 peak



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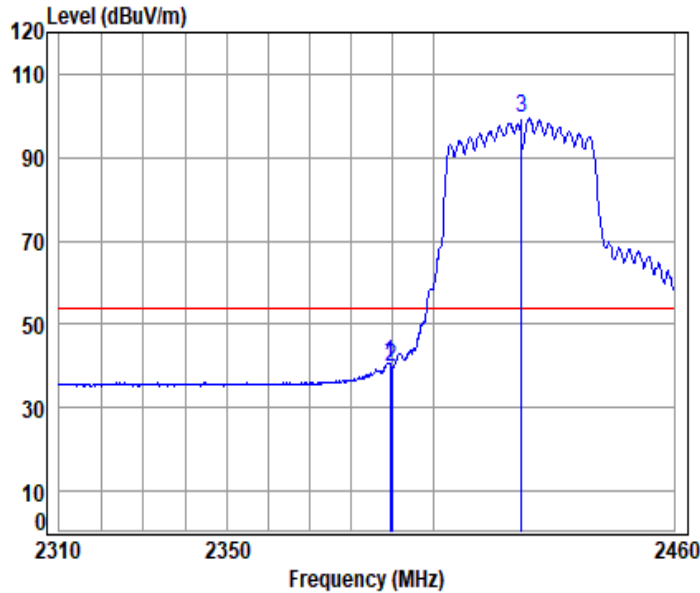
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11n_HT(40M)_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11N40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.526	6.82	27.46	31.54	38.05	40.79	54.00	-13.21	Average
2 2390.000	6.82	27.46	31.54	37.15	39.89	54.00	-14.11	Average
3 pp 2422.000	6.98	27.54	31.54	96.32	99.30	54.00	45.30	Average



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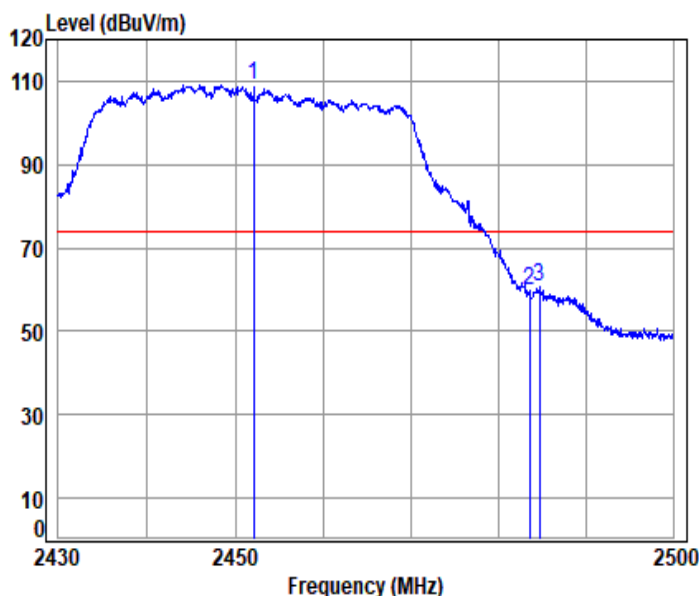
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11n_HT(40M)_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11N40 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	106.01	109.25	74.00	35.25	peak
2	2483.500	7.40	27.80	31.55	56.22	59.87	74.00	-14.13	peak
3	2484.641	7.41	27.81	31.55	56.85	60.52	74.00	-13.48	peak



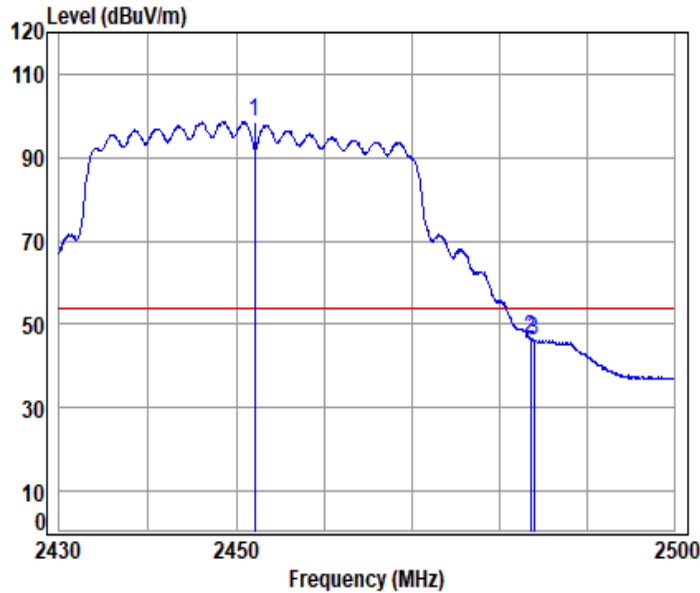
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11n_HT(40M)_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL

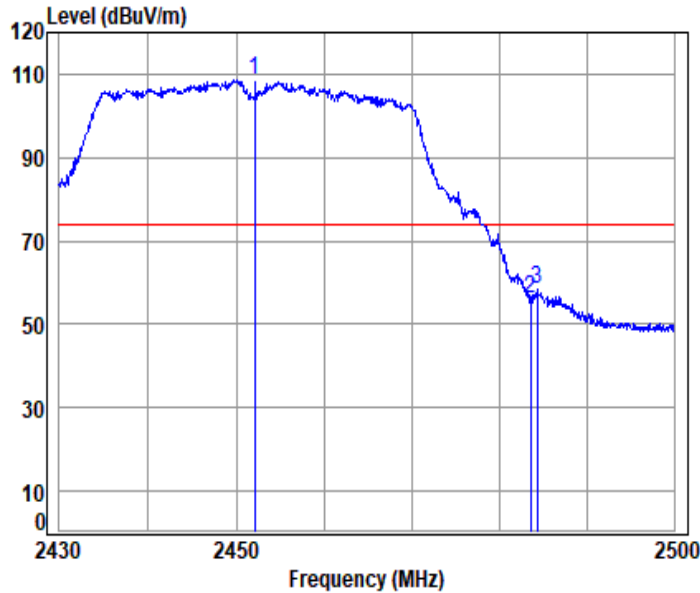
Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11N40 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2452.000	7.18	27.61	31.55	95.47	98.71	54.00	44.71 Average
2	2483.500	7.40	27.80	31.55	42.88	46.53	54.00	-7.47 Average
3	2483.865	7.40	27.80	31.55	42.52	46.17	54.00	-7.83 Average

11n_HT(40M)_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11N40 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.18	27.61	31.55	105.22	108.46	74.00	34.46	peak
2	2483.500	7.40	27.80	31.55	52.69	56.34	74.00	-17.66	peak
3	2484.288	7.40	27.81	31.55	54.81	58.47	74.00	-15.53	peak



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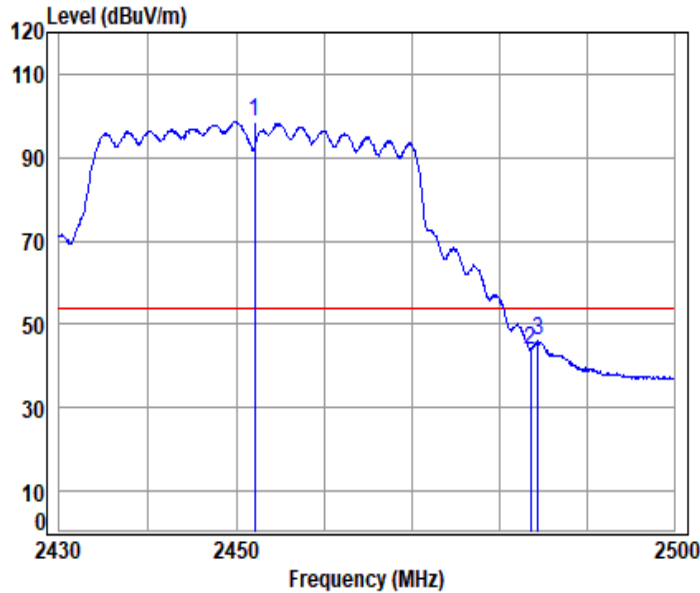
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Report No.: SZCR240900360405

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11n_HT(40M)_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11N40 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2452.000	7.18	27.61	31.55	95.42	98.66	54.00	44.66 Average
2	2483.500	7.40	27.80	31.55	40.31	43.96	54.00	-10.04 Average
3	2484.358	7.40	27.81	31.55	42.38	46.04	54.00	-7.96 Average



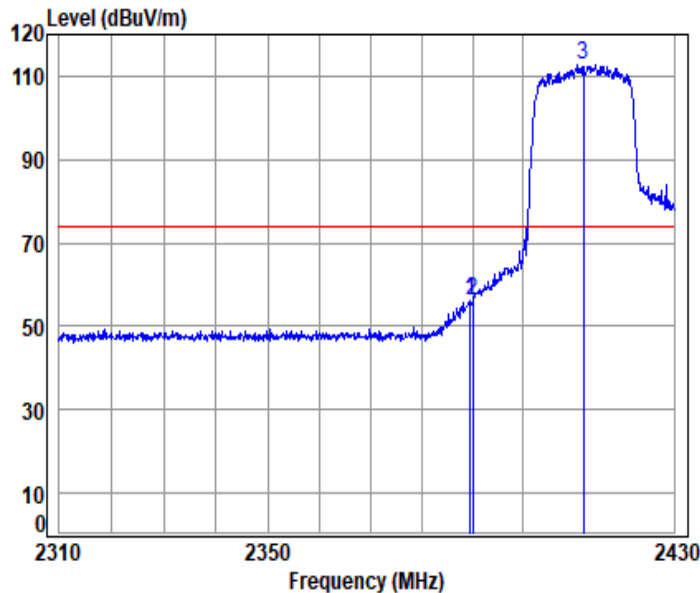
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11ax_20M_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.484	6.82	27.46	31.54	53.58	56.32	74.00	-17.68 peak
2 2390.000	6.82	27.46	31.54	53.28	56.02	74.00	-17.98 peak
3 pp 2412.000	6.91	27.52	31.54	109.95	112.84	74.00	38.84 peak



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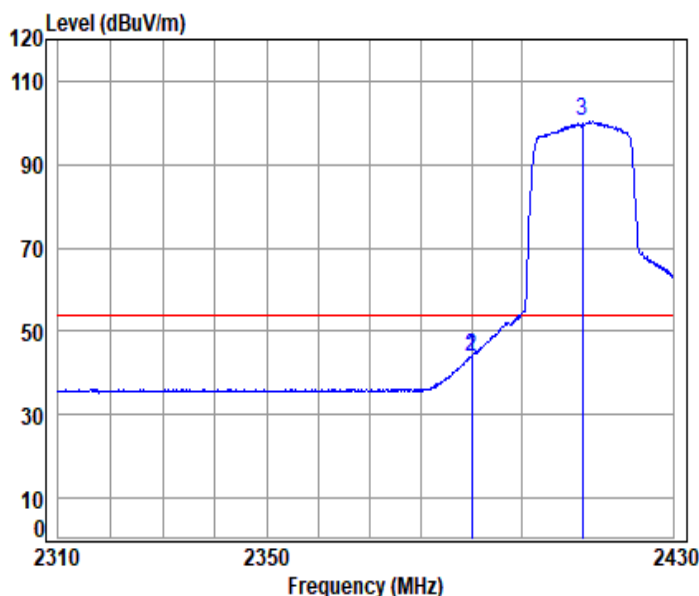
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11ax_20M_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.968	6.82	27.46	31.54	41.29	44.03	54.00	-9.97	Average
2 2390.000	6.82	27.46	31.54	41.29	44.03	54.00	-9.97	Average
3 pp 2412.000	6.91	27.52	31.54	97.68	100.57	54.00	46.57	Average



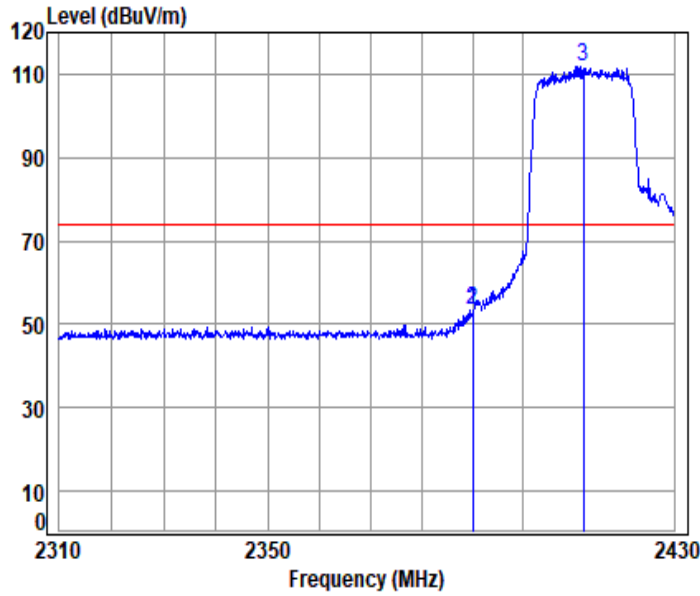
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11ax_20M_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.968	6.82	27.46	31.54	50.79	53.53	74.00	-20.47	peak
2 2390.000	6.82	27.46	31.54	50.79	53.53	74.00	-20.47	peak
3 pp 2412.000	6.91	27.52	31.54	109.01	111.90	74.00	37.90	peak



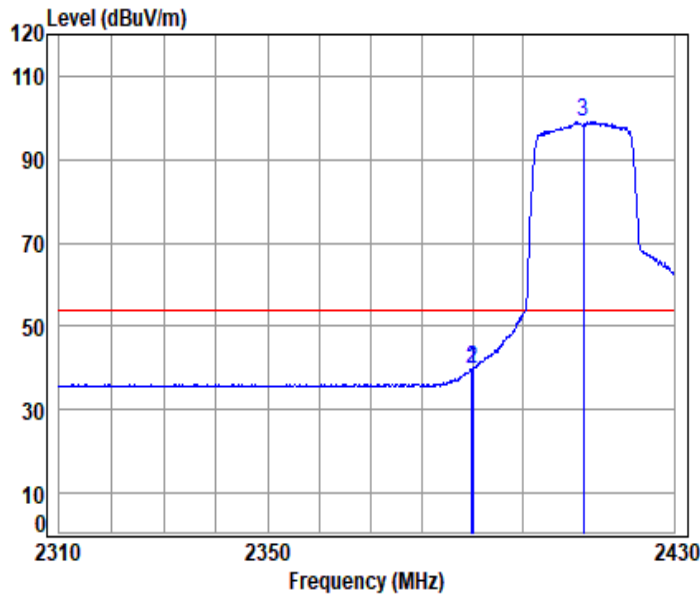
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11ax_20M_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.847	6.82	27.46	31.54	36.96	39.70	54.00	-14.30	Average
2 2390.000	6.82	27.46	31.54	36.95	39.69	54.00	-14.31	Average
3 pp 2412.000	6.91	27.52	31.54	96.20	99.09	54.00	45.09	Average



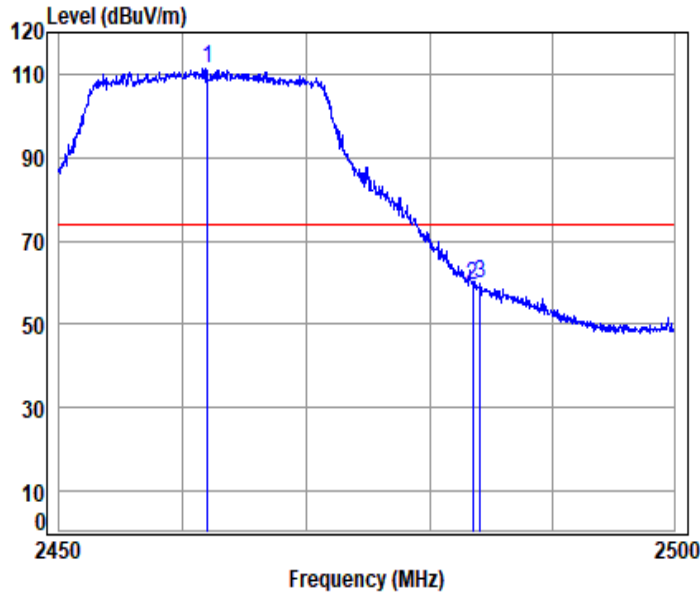
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11ax_20M_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11AX20 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2462.000	7.25	27.67	31.55	108.12	111.49	74.00	37.49 peak
2	2483.500	7.40	27.80	31.55	55.75	59.40	74.00	-14.60 peak
3	2484.141	7.40	27.80	31.55	56.10	59.75	74.00	-14.25 peak



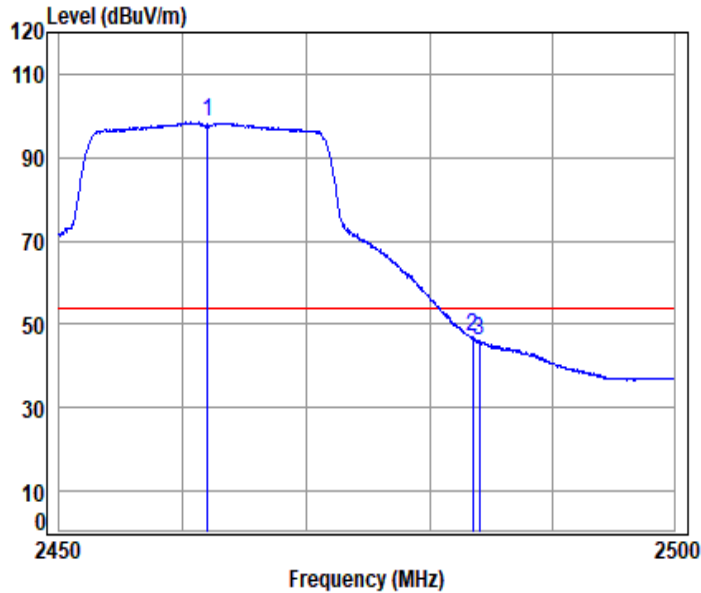
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11ax_20M_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11AX20 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	94.97	98.34	54.00	44.34 Average
2	2483.500	7.40	27.80	31.55	43.15	46.80	54.00	-7.20 Average
3	2484.041	7.40	27.80	31.55	42.48	46.13	54.00	-7.87 Average

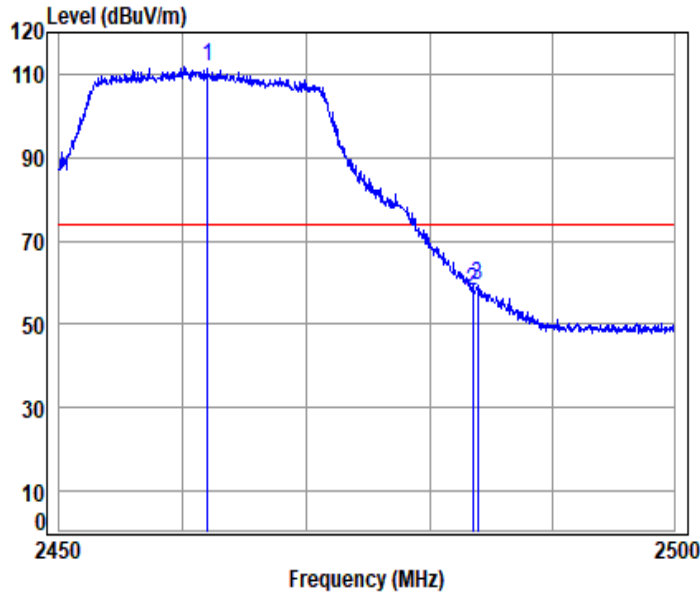
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11ax_20M_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11AX20 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 2462.000	7.25	27.67	31.55	108.32	111.69	74.00	37.69 peak
2	2483.500	7.40	27.80	31.55	54.32	57.97	74.00	-16.03 peak
3	2483.940	7.40	27.80	31.55	55.85	59.50	74.00	-14.50 peak



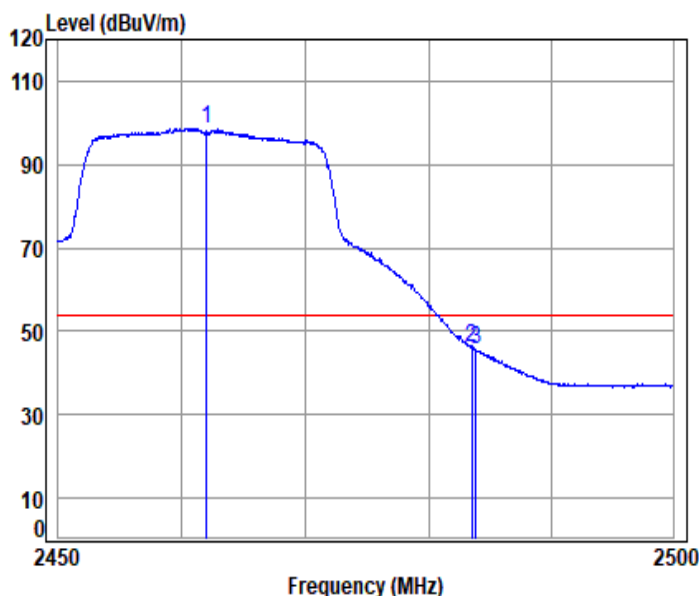
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11ax_20M_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

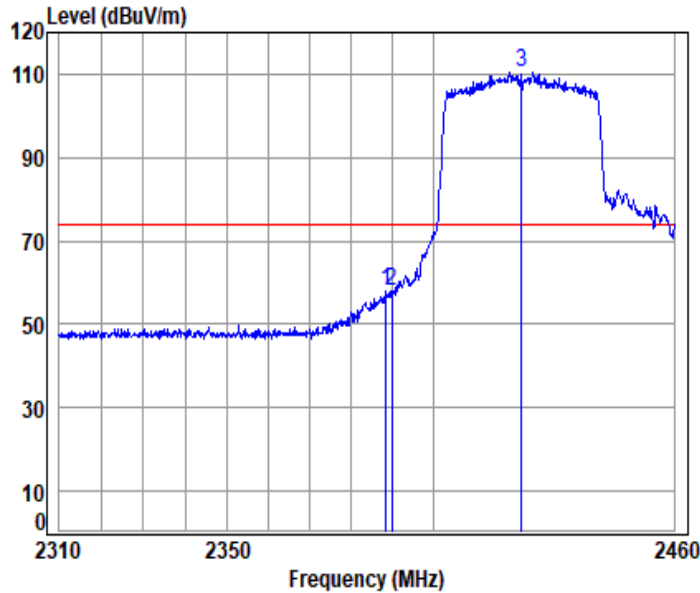
Mode : 2462 Band edge

: 2.4GWIFI 11AX20 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	95.39	98.76	54.00	44.76 Average
2	2483.500	7.40	27.80	31.55	42.63	46.28	54.00	-7.72 Average
3	2483.840	7.40	27.80	31.55	41.93	45.58	54.00	-8.42 Average



11ax_40M_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

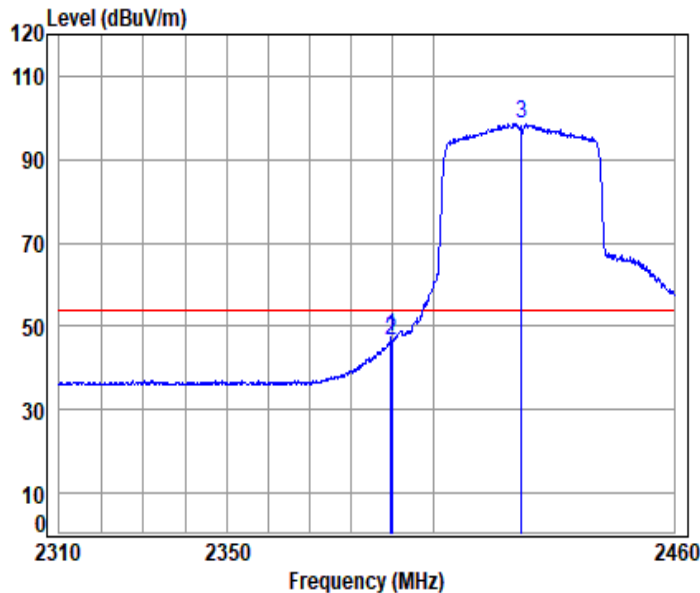
Mode : 2422 Band edge

: 2.4GWIFI 11AX40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2388.474	6.82	27.45	31.54	55.36	58.09	74.00	-15.91 peak
2 2390.000	6.82	27.46	31.54	55.11	57.85	74.00	-16.15 peak
3 pp 2422.000	6.98	27.54	31.54	107.40	110.38	74.00	36.38 peak



11ax_40M_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11AX40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.827	6.82	27.46	31.54	44.55	47.29	54.00	-6.71 Average
2 2390.000	6.82	27.46	31.54	43.61	46.35	54.00	-7.65 Average
3 pp 2422.000	6.98	27.54	31.54	95.78	98.76	54.00	44.76 Average



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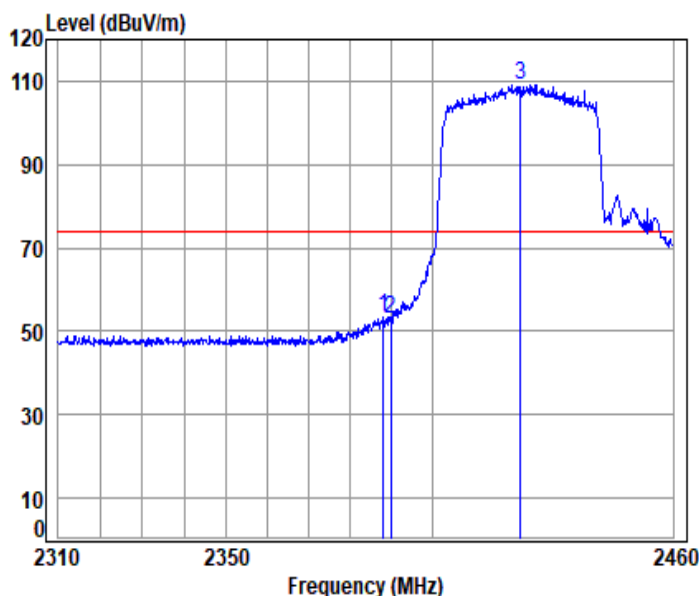
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11ax_40M_TX_CH_03_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11AX40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2388.174	6.82	27.45	31.54	50.86	53.59	74.00	-20.41 peak
2 2390.000	6.82	27.46	31.54	50.09	52.83	74.00	-21.17 peak
3 pp 2422.000	6.98	27.54	31.54	106.18	109.16	74.00	35.16 peak



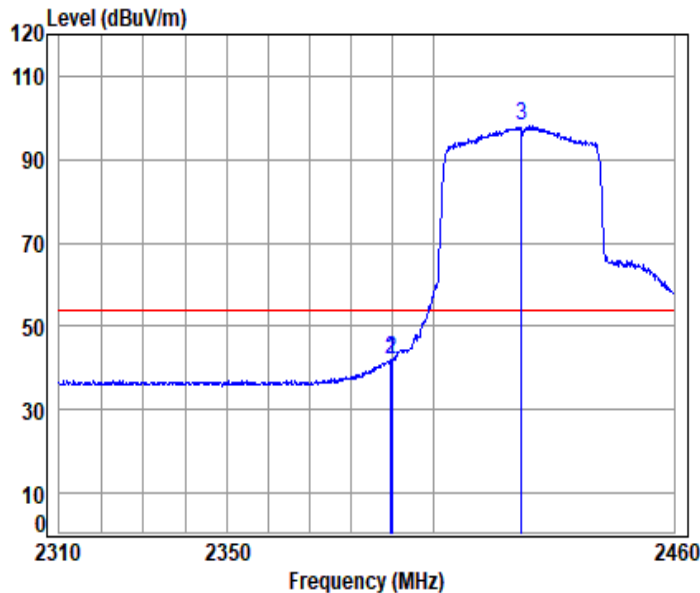
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11ax_40M_TX_CH_03_Vetical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11AX40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.677	6.82	27.46	31.54	39.38	42.12	54.00	-11.88	Average
2 2390.000	6.82	27.46	31.54	39.06	41.80	54.00	-12.20	Average
3 pp 2422.000	6.98	27.54	31.54	95.12	98.10	54.00	44.10	Average



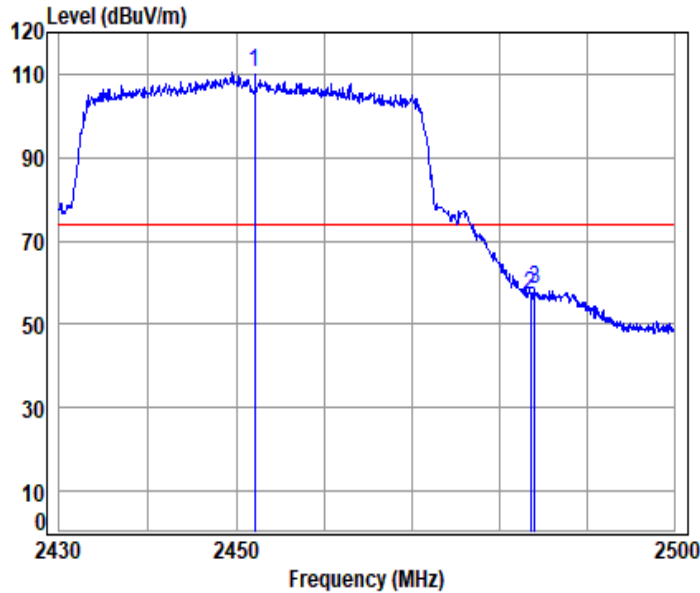
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11ax_40M_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11AX40 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2452.000	7.18	27.61	31.55	107.13	110.37	74.00	36.37 peak
2	2483.500	7.40	27.80	31.55	53.57	57.22	74.00	-16.78 peak
3	2483.935	7.40	27.80	31.55	54.61	58.26	74.00	-15.74 peak



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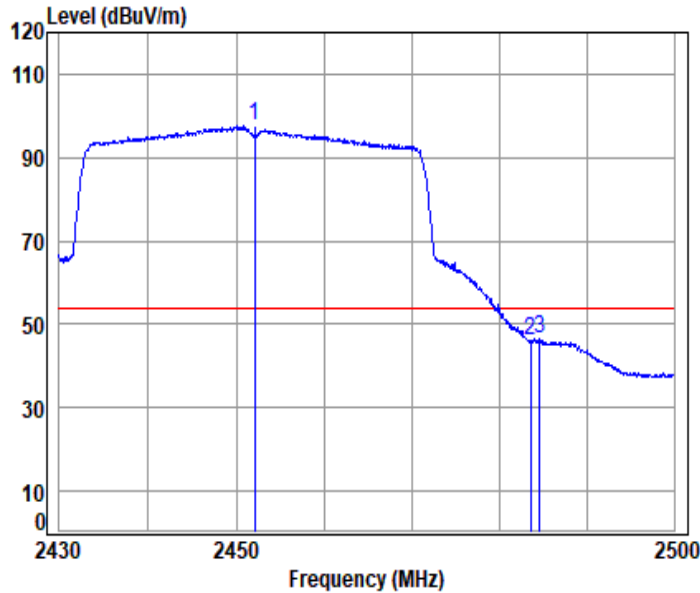
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11ax_40M_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11AX40 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2452.000	7.18	27.61	31.55	94.26	97.50	54.00	43.50 Average
2	2483.500	7.40	27.80	31.55	42.31	45.96	54.00	-8.04 Average
3	2484.500	7.40	27.81	31.55	42.94	46.60	54.00	-7.40 Average



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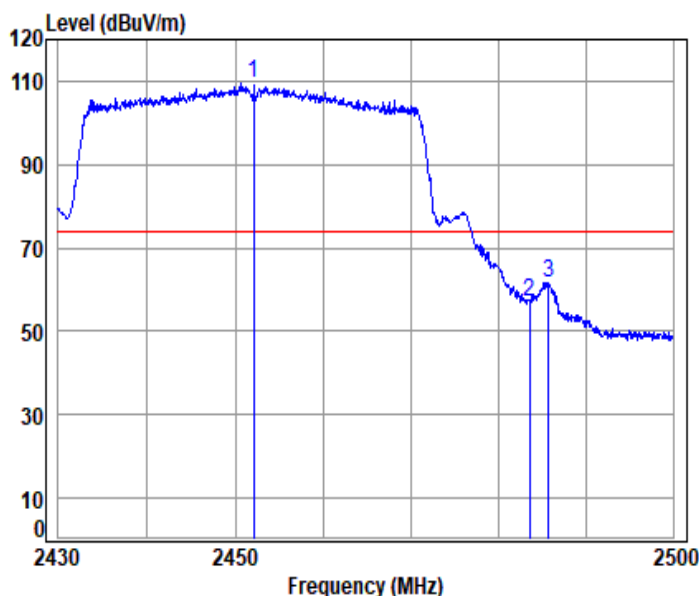
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11ax_40M_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11AX40 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	106.17	109.41	74.00	35.41	peak
2	2483.500	7.40	27.80	31.55	53.61	57.26	74.00	-16.74	peak
3	2485.699	7.41	27.81	31.55	58.13	61.80	74.00	-12.20	peak



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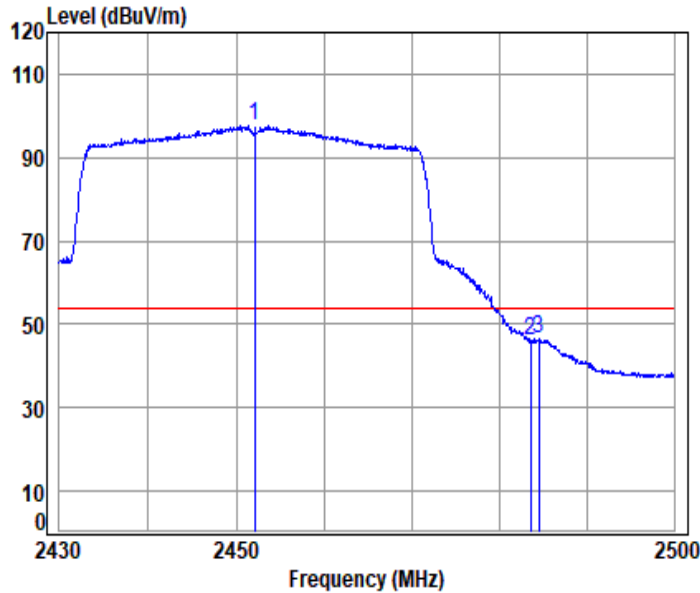
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11ax_40M_TX_CH_09_Verical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11AX40 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2452.000	7.18	27.61	31.55	94.40	97.64	54.00	43.64 Average
2	2483.500	7.40	27.80	31.55	42.24	45.89	54.00	-8.11 Average
3	2484.429	7.40	27.81	31.55	42.80	46.46	54.00	-7.54 Average



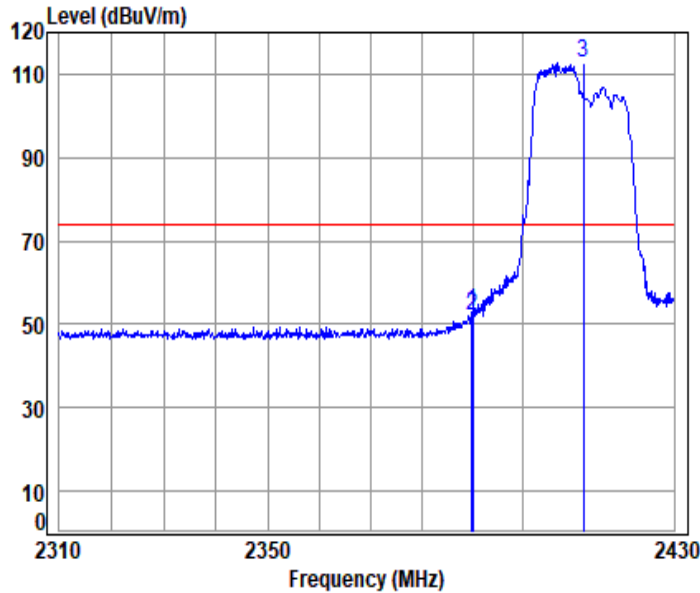
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11ax_20M_Partial_RU106_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11AX20_RU106 MIMO

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.847	6.82	27.46	31.54	50.02	52.76	74.00	-21.24	peak
2 2390.000	6.82	27.46	31.54	49.16	51.90	74.00	-22.10	peak
3 pp 2412.000	6.91	27.52	31.54	109.67	112.56	74.00	38.56	peak



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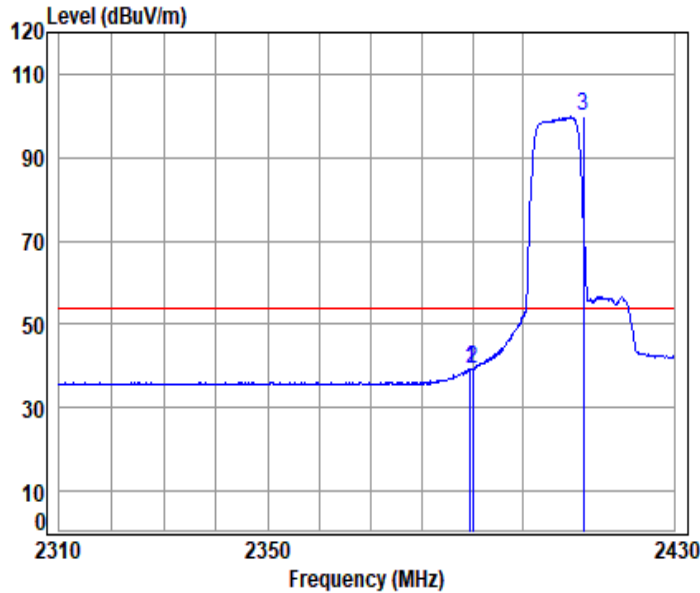
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11ax_20M_Partial_RU106_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11AX20_RU106 MIMO

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.484	6.82	27.46	31.54	36.60	39.34	54.00	-14.66	Average
2 2390.000	6.82	27.46	31.54	36.46	39.20	54.00	-14.80	Average
3 pp 2412.000	6.91	27.52	31.54	96.85	99.74	54.00	45.74	Average



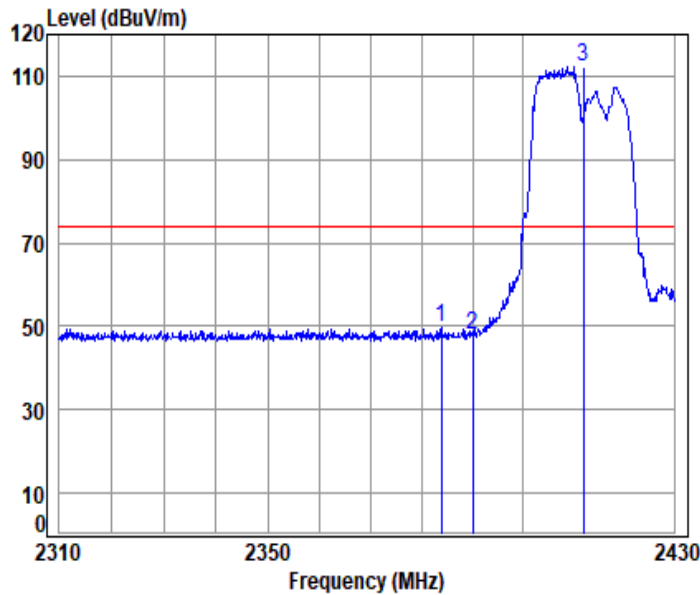
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11ax_20M_Partial_RU106_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

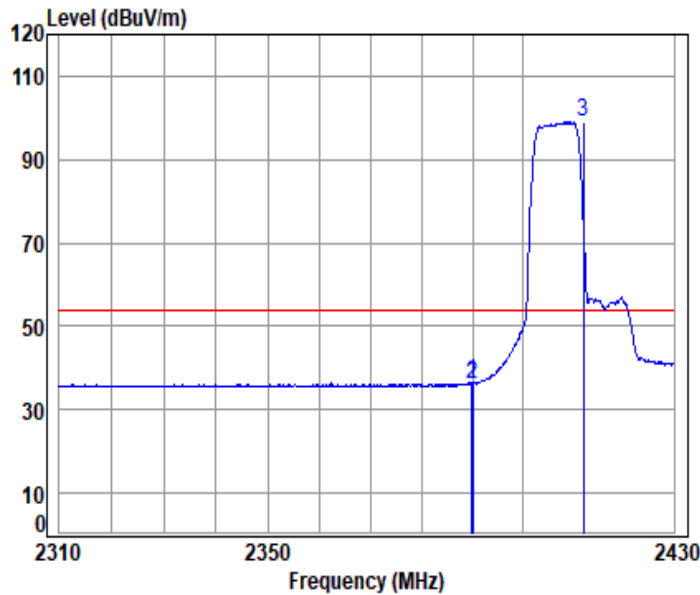
Mode : 2412 Band edge

: 2.4GWIFI 11AX20_RU106 MIMO

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2383.924	6.82	27.44	31.54	47.22	49.94	74.00	-24.06 peak
2	2390.000	6.82	27.46	31.54	45.30	48.04	74.00	-25.96 peak
3	pp 2412.000	6.91	27.52	31.54	109.38	112.27	74.00	38.27 peak



11ax_20M_Partial_RU106_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 Band edge

: 2.4GWIFI 11AX20_RU106 MIMO

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2389.847	6.82	27.46	31.54	33.85	36.59	54.00	-17.41	Average
2 2390.000	6.82	27.46	31.54	33.52	36.26	54.00	-17.74	Average
3 pp 2412.000	6.91	27.52	31.54	96.06	98.95	54.00	44.95	Average



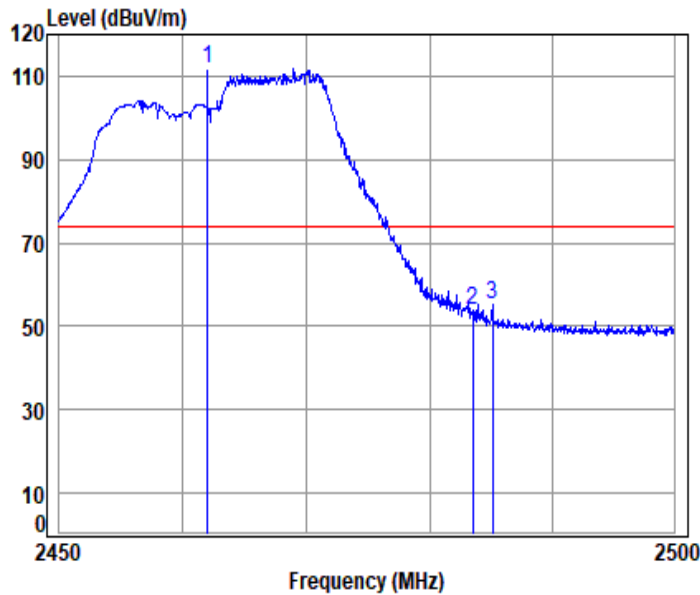
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11ax_20M_Partial_RU106_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

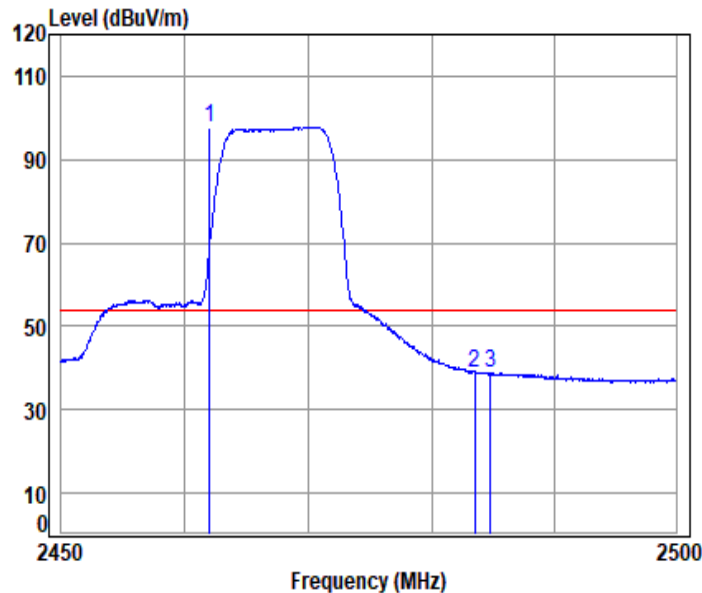
Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11AX20_RU106 MIMO

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.000	7.25	27.67	31.55	108.31	111.68	74.00	37.68 peak
2	2483.500	7.40	27.80	31.55	50.25	53.90	74.00	-20.10 peak
3	2485.145	7.41	27.81	31.55	51.61	55.28	74.00	-18.72 peak

11ax_20M_Partial_RU106_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11AX20_RU106 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	94.46	97.83	54.00	43.83	Average
2	2483.500	7.40	27.80	31.55	35.28	38.93	54.00	-15.07	Average
3	2484.793	7.41	27.81	31.55	35.26	38.93	54.00	-15.07	Average



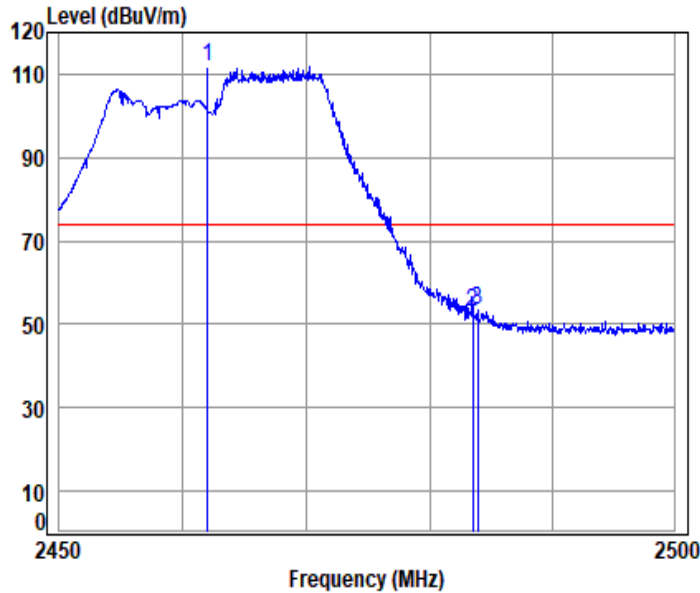
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11ax_20M_Partial_RU106_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 Band edge

: 2.4GWIFI 11AX20_RU106 MIMO

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	7.25	27.67	31.55	108.42	111.79	74.00	37.79	peak
2 2483.500	7.40	27.80	31.55	49.39	53.04	74.00	-20.96	peak
3 2483.940	7.40	27.80	31.55	49.59	53.24	74.00	-20.76	peak



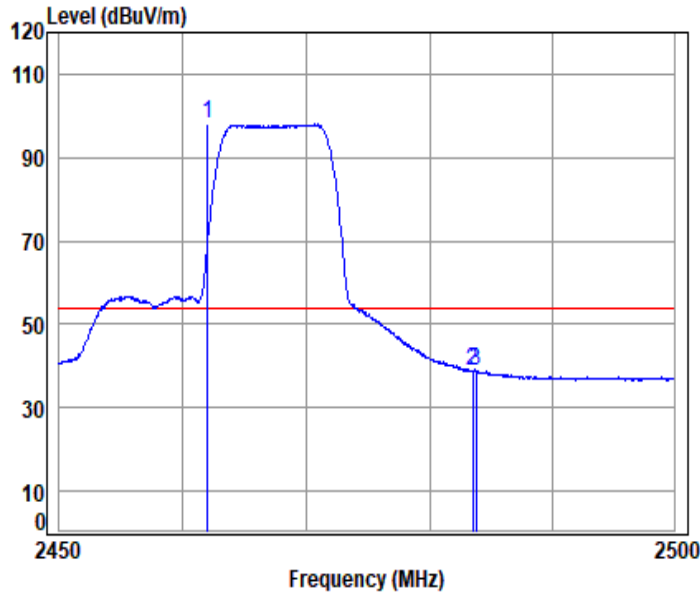
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11ax_20M_Partial_RU106_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

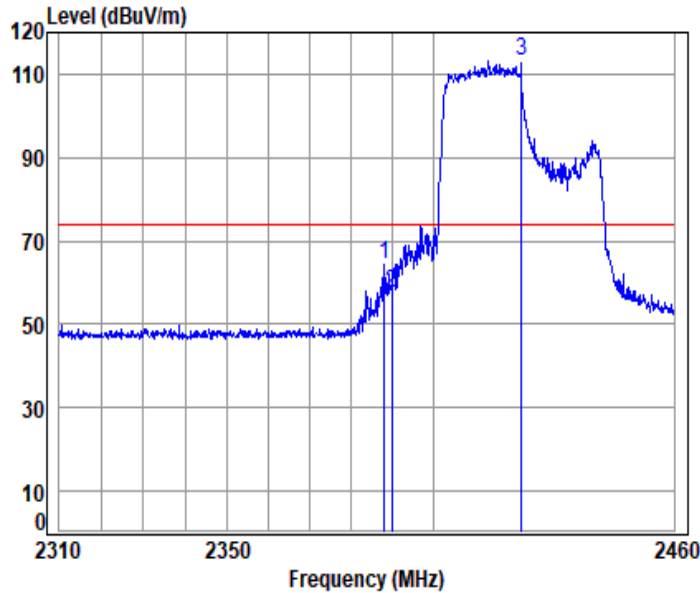
Mode : 2462 Band edge

: 2.4GWIFI 11AX20_RU106 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	94.73	98.10	54.00	44.10	Average
2	2483.500	7.40	27.80	31.55	35.22	38.87	54.00	-15.13	Average
3	2483.790	7.40	27.80	31.55	35.13	38.78	54.00	-15.22	Average



11ax_40M_Partial_RU242_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

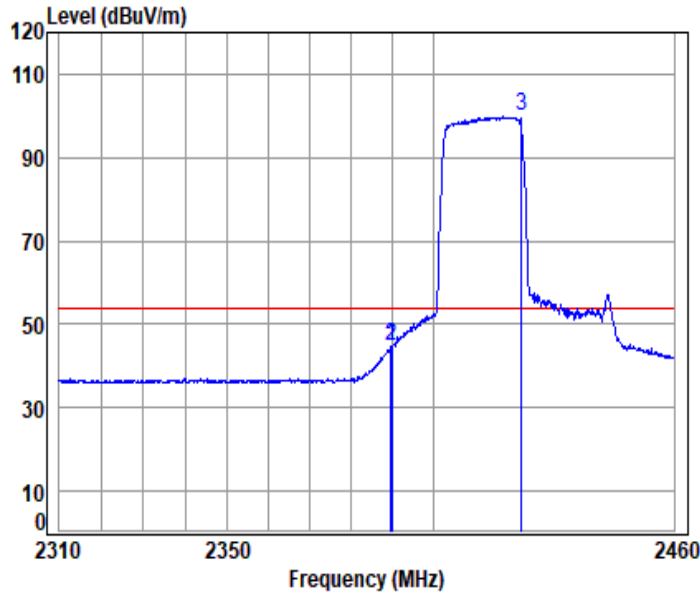
Mode : 2422 Band edge

: 2.4GWIFI 11AX40_RU242 MIMO

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.174	6.82	27.45	31.54	61.74	64.47	74.00	-9.53 peak
2	2390.000	6.82	27.46	31.54	54.70	57.44	74.00	-16.56 peak
3	pp 2422.000	6.98	27.54	31.54	110.07	113.05	74.00	39.05 peak



11ax_40M_Partial_RU242_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11AX40_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.827	6.82	27.46	31.54	41.87	44.61	54.00	-9.39 Average
2 2390.000	6.82	27.46	31.54	42.06	44.80	54.00	-9.20 Average
3 pp 2422.000	6.98	27.54	31.54	96.90	99.88	54.00	45.88 Average



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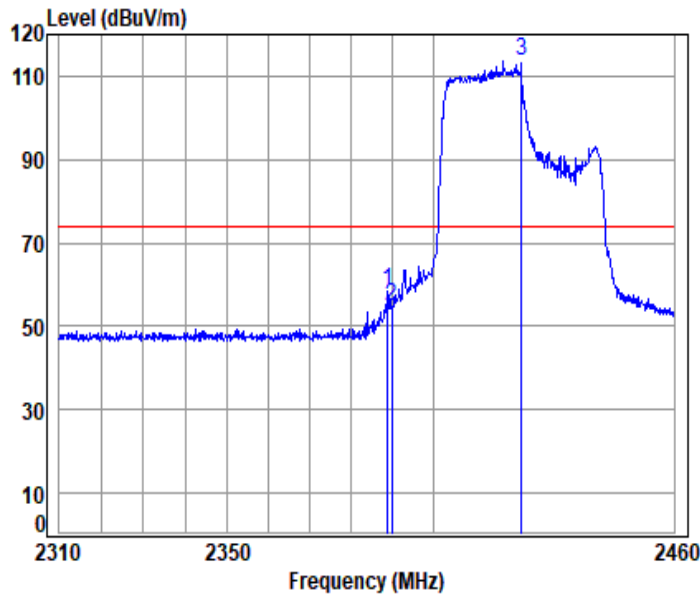
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11ax_40M_Partial_RU242_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11AX40_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.925	6.82	27.46	31.54	55.72	58.46	74.00 -15.54 peak
2	2390.000	6.82	27.46	31.54	52.04	54.78	74.00 -19.22 peak
3	pp 2422.000	6.98	27.54	31.54	110.80	113.78	74.00 39.78 peak



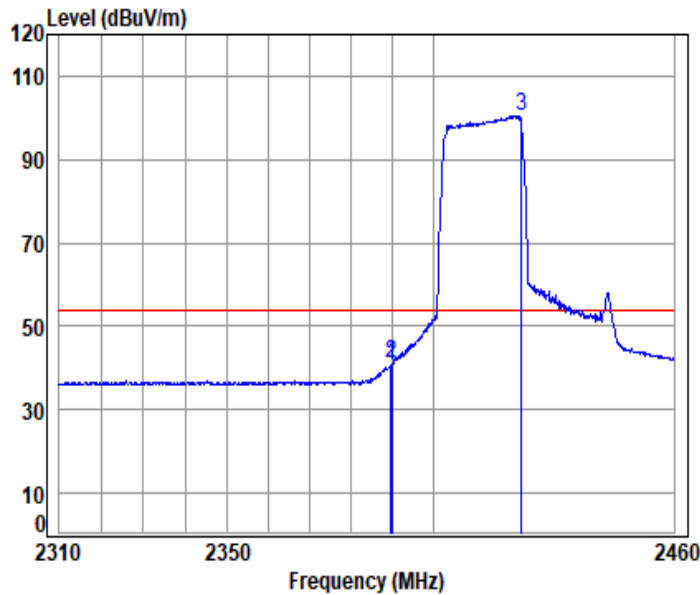
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11ax_40M_Partial_RU242_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2422 Band edge

: 2.4GWIFI 11AX40_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.677	6.82	27.46	31.54	38.10	40.84	54.00	-13.16 Average
2 2390.000	6.82	27.46	31.54	38.38	41.12	54.00	-12.88 Average
3 pp 2422.000	6.98	27.54	31.54	97.50	100.48	54.00	46.48 Average



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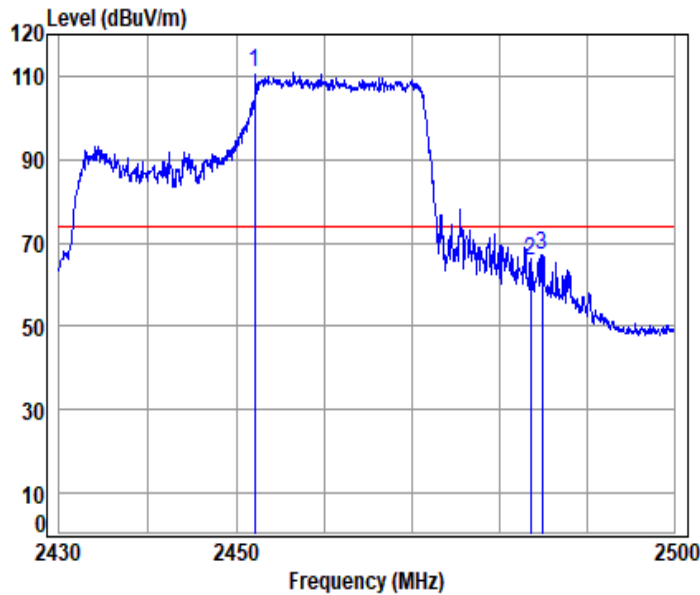
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Report No.: SZCR240900360405

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11ax_40M_Partial_RU242_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11AX40_RU242 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.18	27.61	31.55	107.57	110.81	74.00	36.81	peak
2	2483.500	7.40	27.80	31.55	61.89	65.54	74.00	-8.46	peak
3	2484.852	7.41	27.81	31.55	63.61	67.28	74.00	-6.72	peak



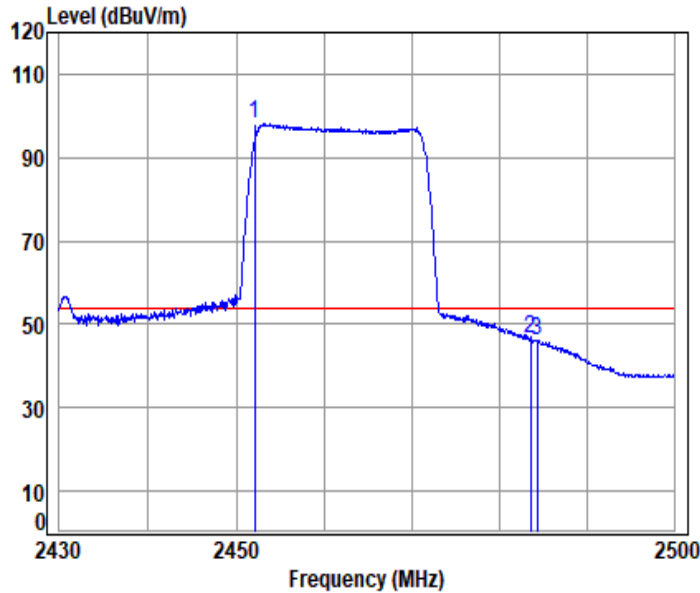
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11ax_40M_Partial_RU242_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 03604WM

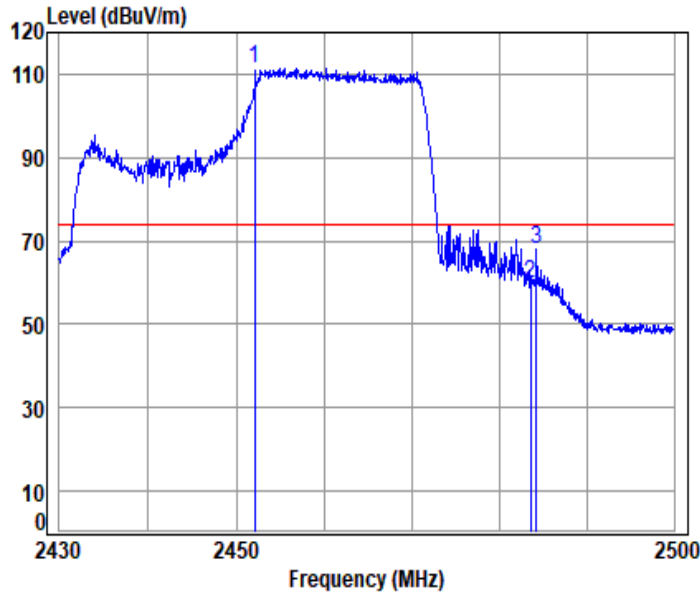
Mode : 2452 Band edge

: 2.4GWIFI 11AX40_RU242 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	94.81	98.05	54.00	44.05	Average
2	2483.500	7.40	27.80	31.55	42.77	46.42	54.00	-7.58	Average
3	2484.217	7.40	27.81	31.55	42.53	46.19	54.00	-7.81	Average



11ax_40M_Partial_RU242_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

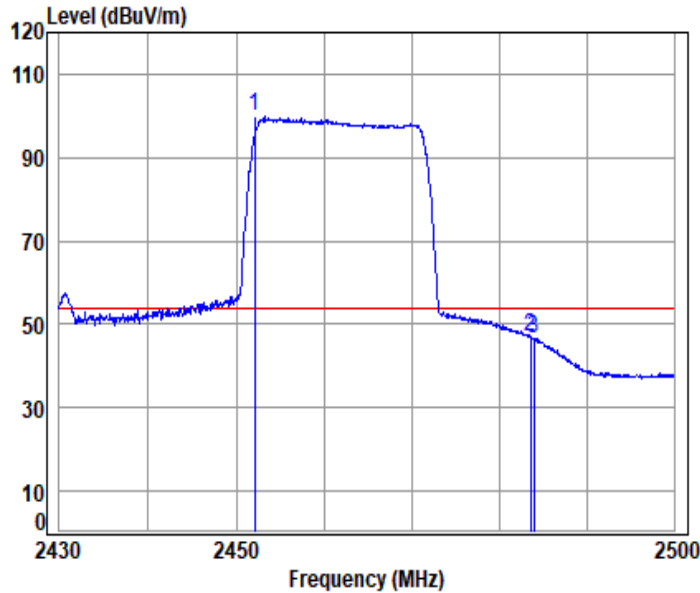
Mode : 2452 Band edge

: 2.4GWIFI 11AX40_RU242 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	108.11	111.35	74.00	37.35	peak
2	2483.500	7.40	27.80	31.55	56.01	59.66	74.00	-14.34	peak
3	2484.147	7.40	27.80	31.55	64.13	67.78	74.00	-6.22	peak



11ax_40M_Partial_RU242_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2452 Band edge

: 2.4GWIFI 11AX40_RU242 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	96.58	99.82	54.00	45.82	Average
2	2483.500	7.40	27.80	31.55	43.21	46.86	54.00	-7.14	Average
3	2483.865	7.40	27.80	31.55	42.94	46.59	54.00	-7.41	Average



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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 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 47.5 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 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. Only the data of worst case is recorded in the report.



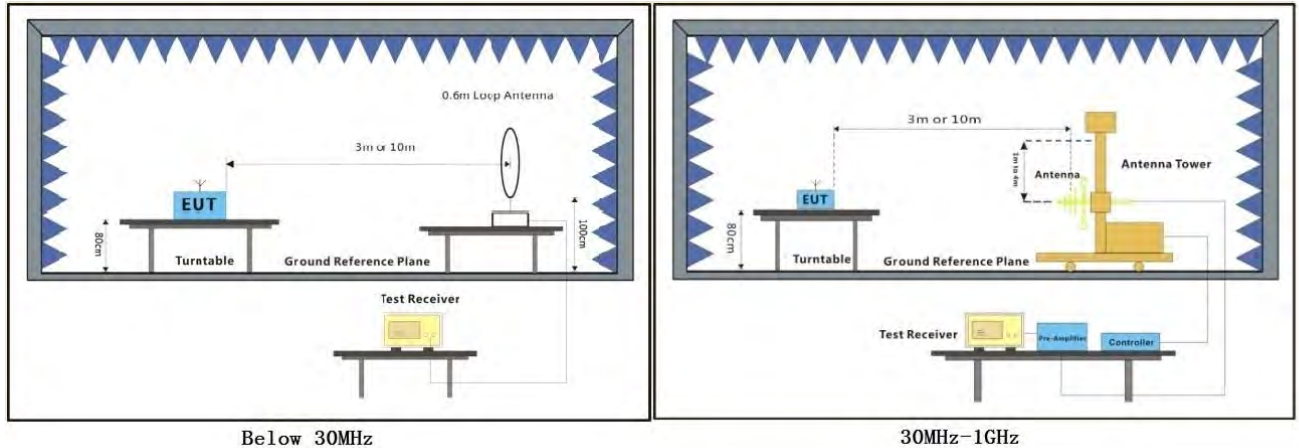
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7.3.3 Test Setup Diagram



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

Remark:

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

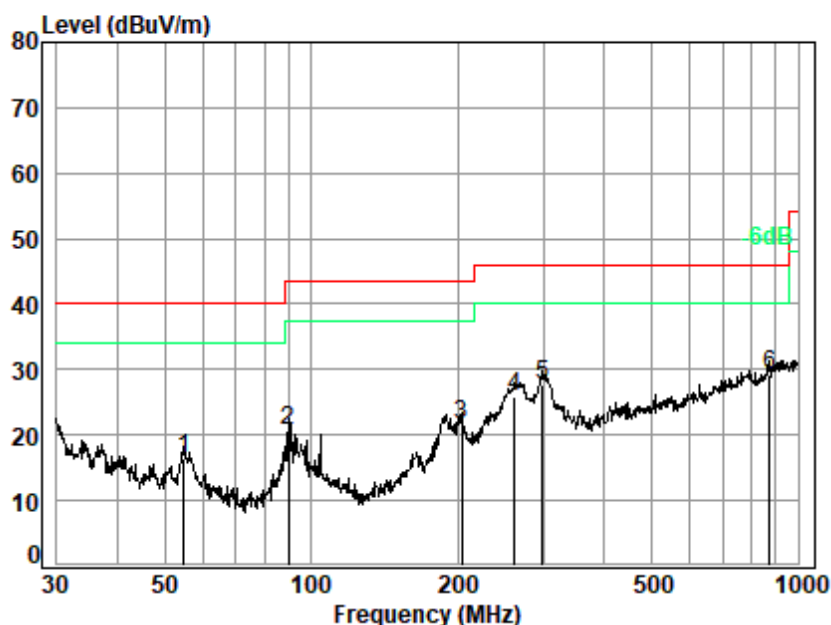
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Report No.: SZCR240900360405

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Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03604WM
Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	54.835	11.99	0.91	27.72	31.16	16.34	40.00	-23.66	QP
2	89.905	11.72	1.16	27.62	35.40	20.66	43.50	-22.84	QP
3	203.523	14.41	1.78	27.16	32.52	21.55	43.50	-21.95	QP
4	261.058	17.19	2.05	26.91	33.58	25.91	46.00	-20.09	QP
5	298.268	17.82	2.19	26.76	34.45	27.70	46.00	-18.30	QP
6 q	872.183	27.66	4.05	26.96	24.48	29.23	46.00	-16.77	QP



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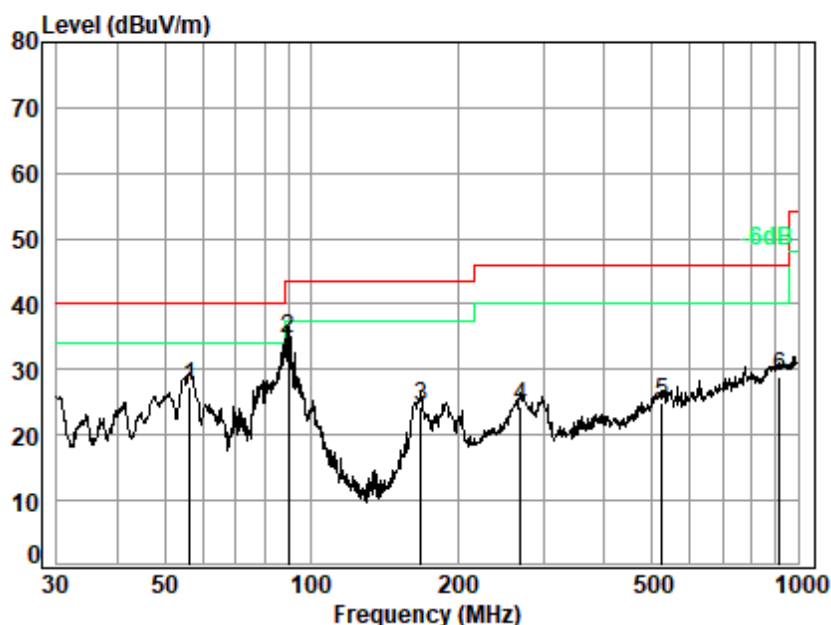
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Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03604WM
Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.395	11.81	0.92	27.72	42.45	27.46	40.00	-12.54	QP
2	89.905	11.72	1.16	27.62	49.26	34.52	43.50	-8.98	QP
3	167.824	13.17	1.62	27.31	36.88	24.36	43.50	-19.14	QP
4	269.428	17.10	2.08	26.88	32.05	24.35	46.00	-21.65	QP
5	524.554	23.24	3.00	27.66	26.23	24.81	46.00	-21.19	QP
6	916.069	28.06	4.16	26.65	23.40	28.97	46.00	-17.03	QP



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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 (2013) Section 6.6

Measurement Distance: 3m

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

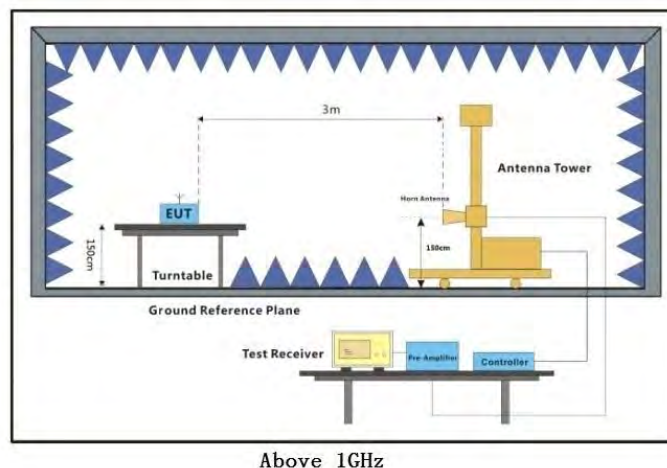
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram



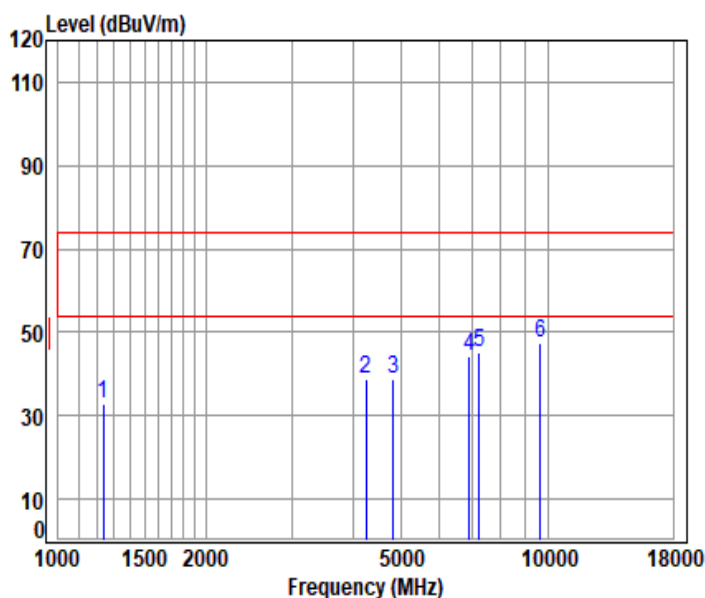
7.4.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $<98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11b_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 TX RSE

: 2.4GWIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	7.18	25.30	54.70	55.18	32.96	74.00	-41.04	peak
2	4242.641	8.48	31.06	55.77	55.12	38.89	74.00	-35.11	peak
3	4824.000	8.92	32.00	56.18	54.22	38.96	74.00	-35.04	peak
4	6914.763	10.94	36.17	56.72	53.92	44.31	74.00	-29.69	peak
5	7236.000	11.10	36.60	56.51	53.86	45.05	74.00	-28.95	peak
6 pp	9648.000	12.49	38.70	54.42	50.64	47.41	74.00	-26.59	peak



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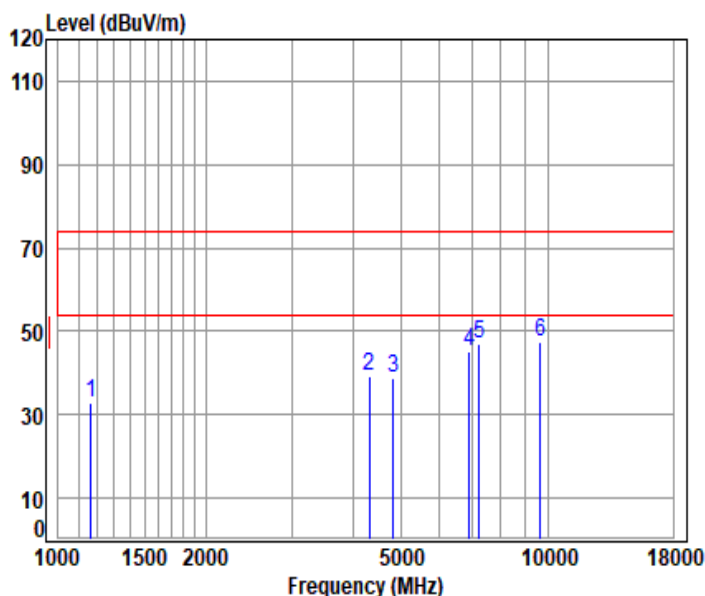
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11b_TX_CH_01_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 TX RSE

: 2.4GWIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	7.16	25.37	54.70	55.24	33.07	74.00	-40.93 peak
2	4316.859	8.47	31.30	55.82	55.22	39.17	74.00	-34.83 peak
3	4824.000	8.92	32.00	56.18	54.07	38.81	74.00	-35.19 peak
4	6914.763	10.94	36.17	56.72	54.70	45.09	74.00	-28.91 peak
5	7236.000	11.10	36.60	56.51	55.61	46.80	74.00	-27.20 peak
6	pp 9648.000	12.49	38.70	54.42	50.72	47.49	74.00	-26.51 peak



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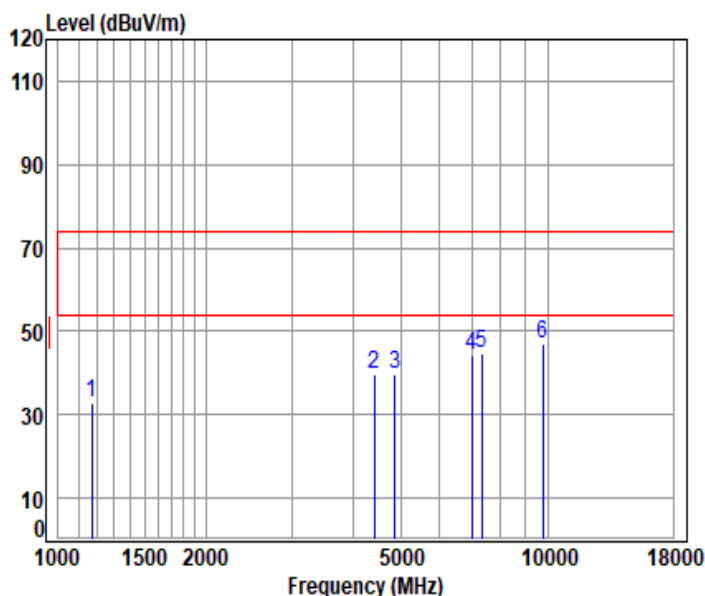
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11b_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2437 TX RSE

: 2.4GWIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	7.16	25.36	54.70	55.16	32.98	74.00	-41.02	peak
2	4417.841	8.54	31.27	55.89	55.95	39.87	74.00	-34.13	peak
3	4874.000	8.97	32.15	56.21	54.71	39.62	74.00	-34.38	peak
4	6995.172	10.96	36.19	56.70	54.01	44.46	74.00	-29.54	peak
5	7311.000	11.11	36.72	56.45	53.43	44.81	74.00	-29.19	peak
6 pp	9748.000	12.80	38.60	54.33	49.83	46.90	74.00	-27.10	peak



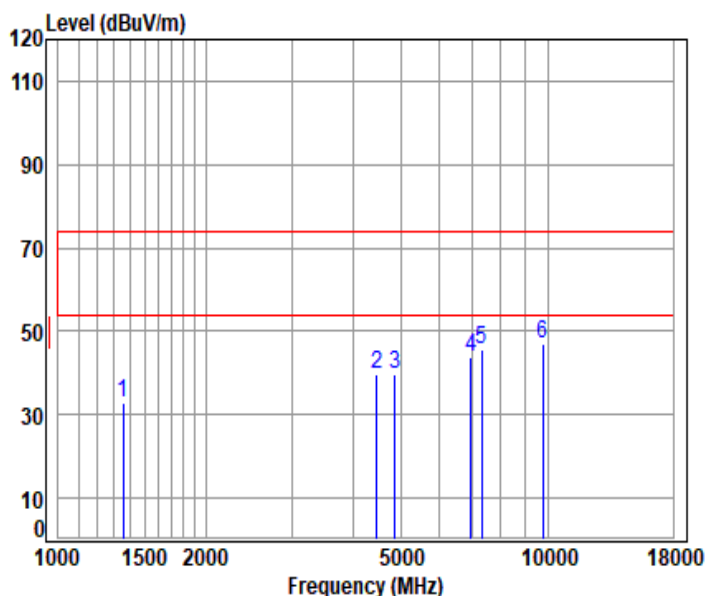
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11b_TX_CH_06_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2437 TX RSE

: 2.4GWIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1354.577	7.18	25.09	54.70	55.41	32.98	74.00 -41.02 peak
2	4469.214	8.55	31.48	55.93	55.40	39.50	74.00 -34.50 peak
3	4874.000	8.97	32.15	56.21	54.81	39.72	74.00 -34.28 peak
4	6954.852	10.95	36.11	56.71	53.58	43.93	74.00 -30.07 peak
5	7311.000	11.11	36.72	56.45	54.41	45.79	74.00 -28.21 peak
6	pp 9748.000	12.80	38.60	54.33	50.15	47.22	74.00 -26.78 peak



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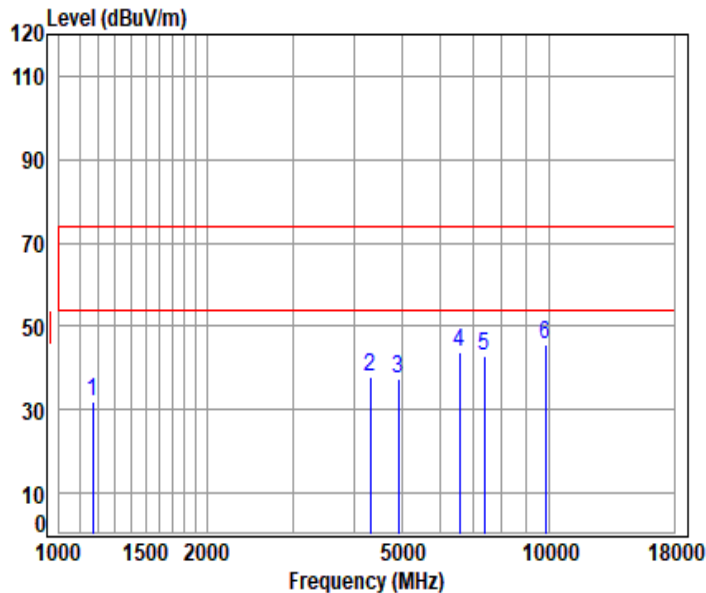
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11b_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 TX RSE

: 2.4GWIFI 11B

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1168.920	7.16	25.36	54.70	54.07	31.89	74.00 -42.11 peak
2	4316.859	8.47	31.30	55.82	53.73	37.68	74.00 -36.32 peak
3	4924.000	9.03	32.20	56.25	52.52	37.50	74.00 -36.50 peak
4	6564.209	10.80	35.06	56.79	54.84	43.91	74.00 -30.09 peak
5	7386.000	11.19	36.73	56.39	51.45	42.98	74.00 -31.02 peak
6	pp 9848.000	12.84	37.83	54.24	49.22	45.65	74.00 -28.35 peak



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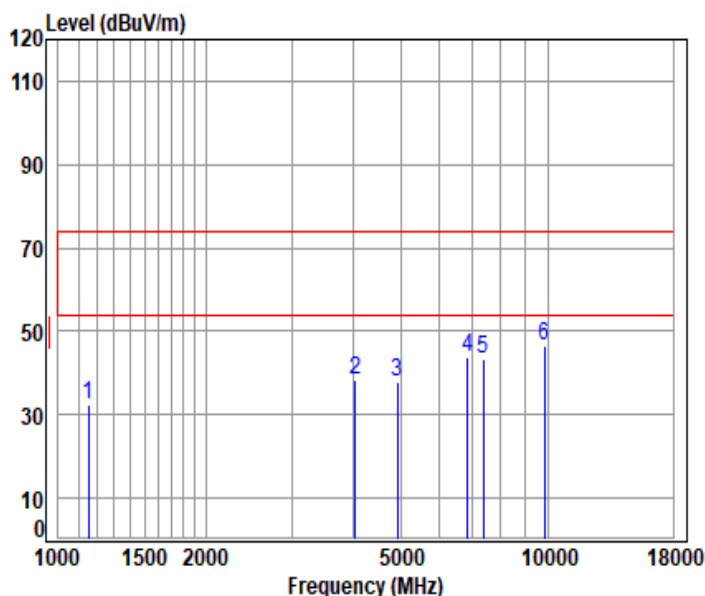
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11b_TX_CH_11_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 TX RSE

: 2.4GWIFI 11B

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	7.15	25.40	54.70	54.39	32.24	74.00	-41.76 peak
2	4039.212	8.21	30.28	55.63	55.30	38.16	74.00	-35.84 peak
3	4924.000	9.03	32.20	56.25	52.91	37.89	74.00	-36.11 peak
4	6855.063	10.96	36.02	56.73	53.57	43.82	74.00	-30.18 peak
5	7386.000	11.19	36.73	56.39	51.70	43.23	74.00	-30.77 peak
6 pp	9848.000	12.84	37.83	54.24	50.22	46.65	74.00	-27.35 peak



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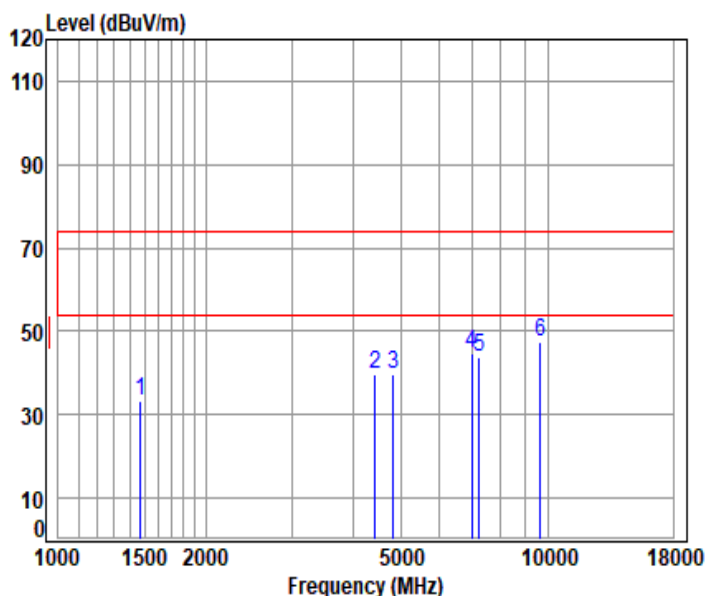
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11n_20M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 TX RSE

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1473.013	7.22	25.01	54.70	55.71	33.24	74.00 -40.76 peak
2	4430.628	8.55	31.32	55.90	55.52	39.49	74.00 -34.51 peak
3	4824.000	8.92	32.00	56.18	54.93	39.67	74.00 -34.33 peak
4	6995.172	10.96	36.19	56.70	54.05	44.50	74.00 -29.50 peak
5	7236.000	11.10	36.60	56.51	52.46	43.65	74.00 -30.35 peak
6	9648.000	12.49	38.70	54.42	50.69	47.46	74.00 -26.54 peak



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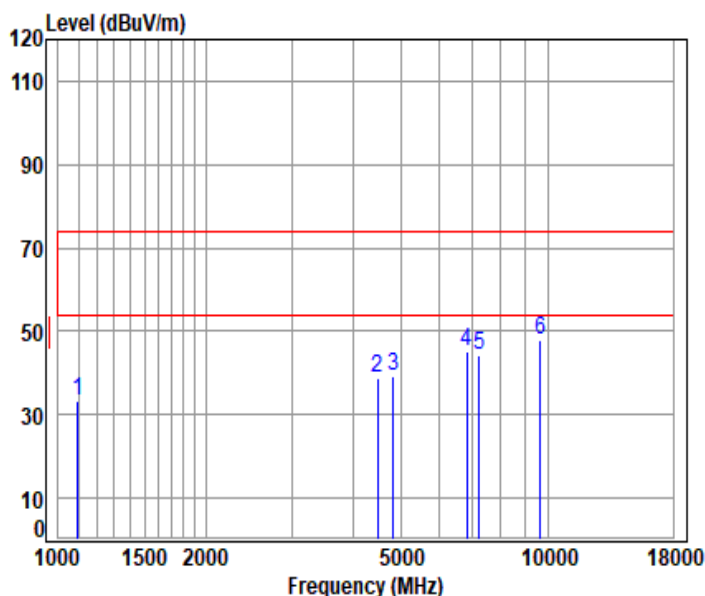
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11n_20M_TX_CH_01_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 TX RSE

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1096.904	7.10	25.59	54.70	55.53	33.52	74.00	-40.48 peak
2	4495.125	8.56	31.58	55.95	54.80	38.99	74.00	-35.01 peak
3	4824.000	8.92	32.00	56.18	54.67	39.41	74.00	-34.59 peak
4	6815.551	10.97	35.93	56.74	54.93	45.09	74.00	-28.91 peak
5	7236.000	11.10	36.60	56.51	52.99	44.18	74.00	-29.82 peak
6	pp 9648.000	12.49	38.70	54.42	51.03	47.80	74.00	-26.20 peak



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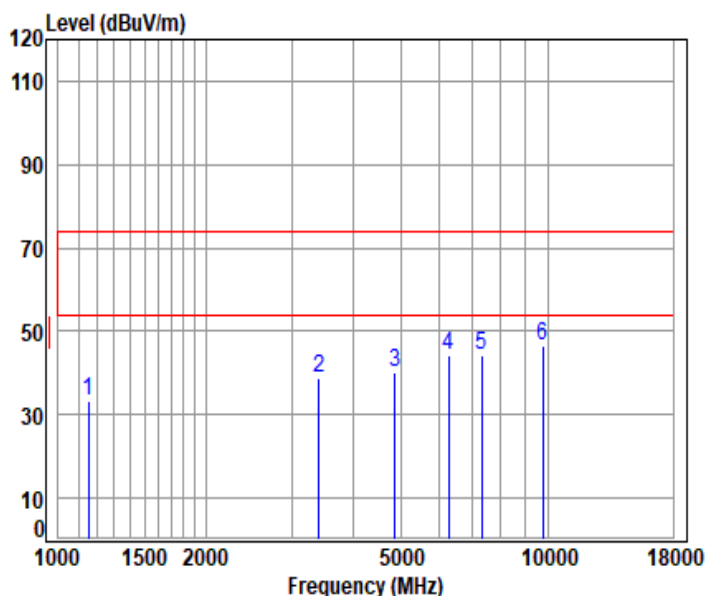
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11n_20M_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2437 TX RSE

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1152.148	7.15	25.40	54.70	55.41	33.26	74.00 -40.74 peak
2	3405.929	7.65	29.31	55.24	57.01	38.73	74.00 -35.27 peak
3	4874.000	8.97	32.15	56.21	55.30	40.21	74.00 -33.79 peak
4	6267.553	10.53	34.41	56.85	56.28	44.37	74.00 -29.63 peak
5	7311.000	11.11	36.72	56.45	52.90	44.28	74.00 -29.72 peak
6	pp 9748.000	12.80	38.60	54.33	49.45	46.52	74.00 -27.48 peak



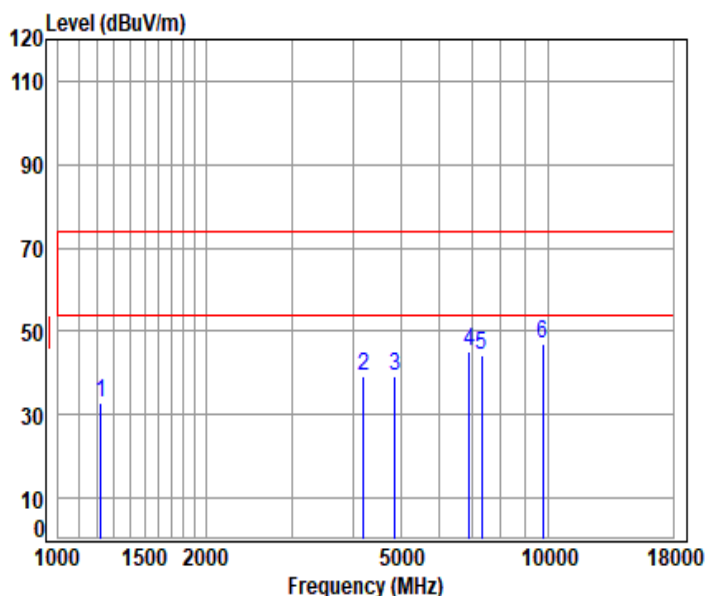
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11n_20M_TX_CH_06_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2437 TX RSE

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	7.18	25.30	54.70	55.30	33.08	74.00 -40.92 peak
2	4206.011	8.51	30.84	55.74	55.41	39.02	74.00 -34.98 peak
3	4874.000	8.97	32.15	56.21	54.21	39.12	74.00 -34.88 peak
4	6914.763	10.94	36.17	56.72	54.81	45.20	74.00 -28.80 peak
5	7311.000	11.11	36.72	56.45	52.89	44.27	74.00 -29.73 peak
6	pp 9748.000	12.80	38.60	54.33	50.05	47.12	74.00 -26.88 peak



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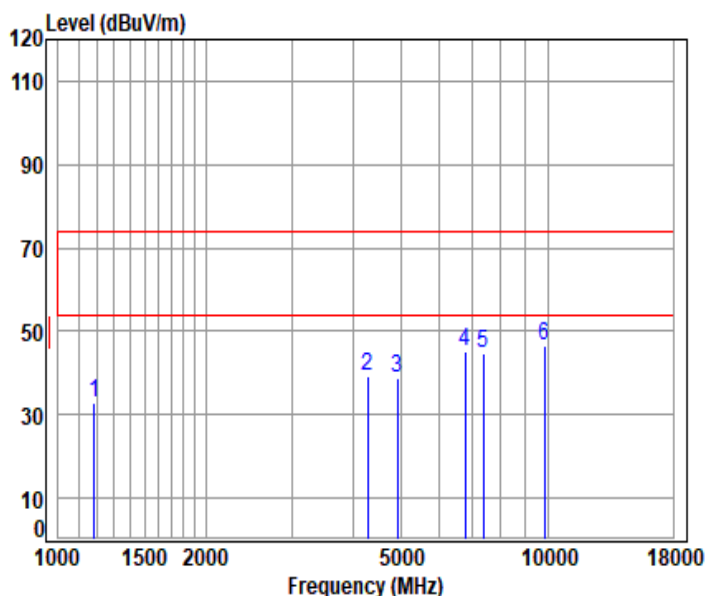
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11n_20M_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 TX RSE

: 2.4GWIFI 11N20 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	7.17	25.33	54.70	54.92	32.72	74.00	-41.28	peak
2	4291.977	8.45	31.27	55.80	55.16	39.08	74.00	-34.92	peak
3	4924.000	9.03	32.20	56.25	53.81	38.79	74.00	-35.21	peak
4	6776.265	10.94	35.81	56.74	55.30	45.31	74.00	-28.69	peak
5	7386.000	11.19	36.73	56.39	53.34	44.87	74.00	-29.13	peak
6 pp	9848.000	12.84	37.83	54.24	50.07	46.50	74.00	-27.50	peak



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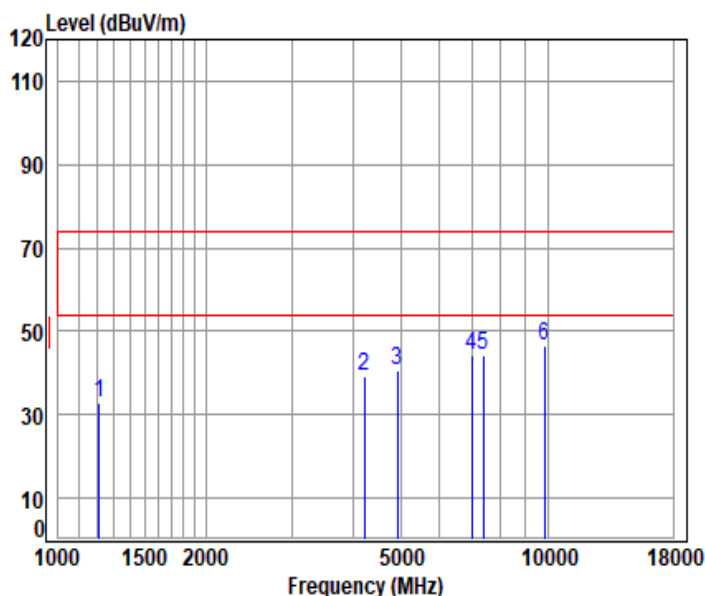
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11n_20M_TX_CH_11_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 TX RSE

: 2.4GWIFI 11N20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.677	7.18	25.30	54.70	55.14	32.92	74.00 -41.08 peak
2	4218.186	8.50	30.91	55.75	55.55	39.21	74.00 -34.79 peak
3	4924.000	9.03	32.20	56.25	55.44	40.42	74.00 -33.58 peak
4	6995.172	10.96	36.19	56.70	53.92	44.37	74.00 -29.63 peak
5	7386.000	11.19	36.73	56.39	52.95	44.48	74.00 -29.52 peak
6	pp 9848.000	12.84	37.83	54.24	50.18	46.61	74.00 -27.39 peak



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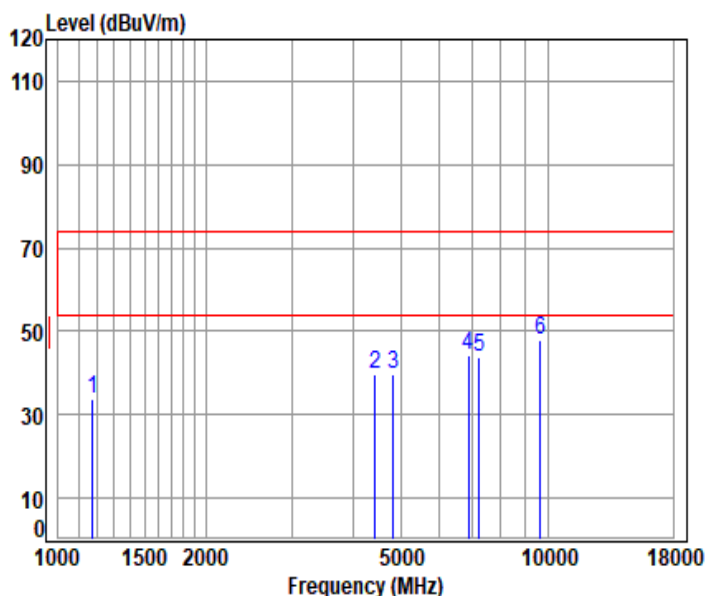
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11ax_20M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2412 TX RSE

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	7.17	25.35	54.70	56.13	33.95	74.00	-40.05 peak
2	4430.628	8.55	31.32	55.90	55.72	39.69	74.00	-34.31 peak
3	4824.000	8.92	32.00	56.18	54.77	39.51	74.00	-34.49 peak
4	6874.906	10.95	36.10	56.73	54.14	44.46	74.00	-29.54 peak
5	7236.000	11.10	36.60	56.51	52.74	43.93	74.00	-30.07 peak
6 pp	9648.000	12.49	38.70	54.42	51.14	47.91	74.00	-26.09 peak



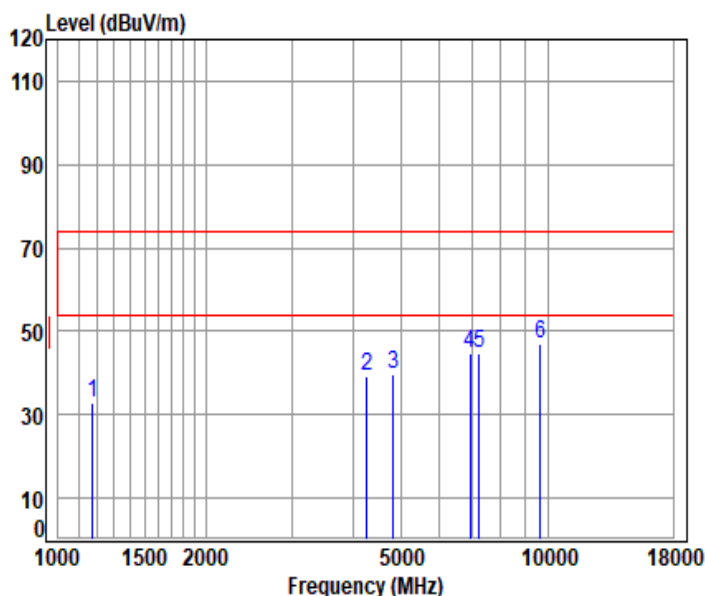
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11ax_20M_TX_CH_01_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2412 TX RSE

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1175.697	7.17	25.35	54.70	55.07	32.89	74.00 -41.11 peak
2	4267.237	8.47	31.17	55.79	55.62	39.47	74.00 -34.53 peak
3	4824.000	8.92	32.00	56.18	55.02	39.76	74.00 -34.24 peak
4	6934.778	10.95	36.13	56.71	54.43	44.80	74.00 -29.20 peak
5	7236.000	11.10	36.60	56.51	53.57	44.76	74.00 -29.24 peak
6	pp 9648.000	12.49	38.70	54.42	50.25	47.02	74.00 -26.98 peak



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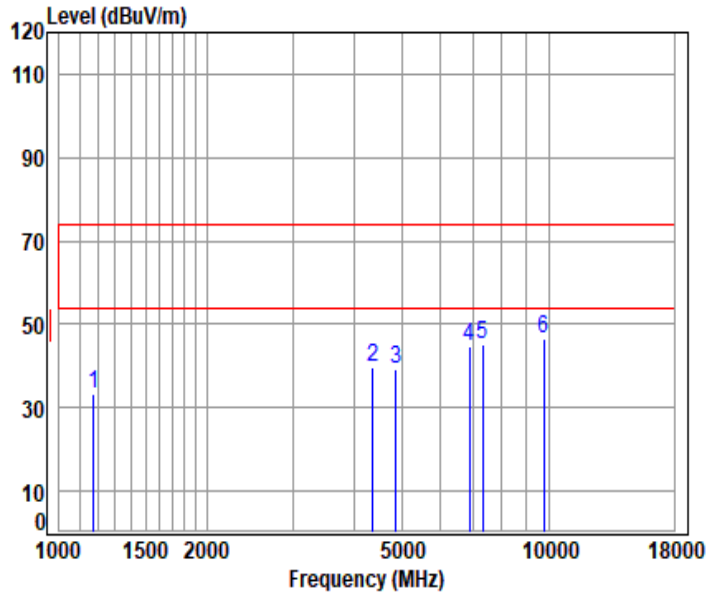
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11ax_20M_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2437 TX RSE

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	7.17	25.35	54.70	55.33	33.15	74.00	-40.85 peak
2	4367.058	8.51	31.27	55.86	55.73	39.65	74.00	-34.35 peak
3	4874.000	8.97	32.15	56.21	54.40	39.31	74.00	-34.69 peak
4	6874.906	10.95	36.10	56.73	54.17	44.49	74.00	-29.51 peak
5	7311.000	11.11	36.72	56.45	53.83	45.21	74.00	-28.79 peak
6	pp 9748.000	12.80	38.60	54.33	49.46	46.53	74.00	-27.47 peak



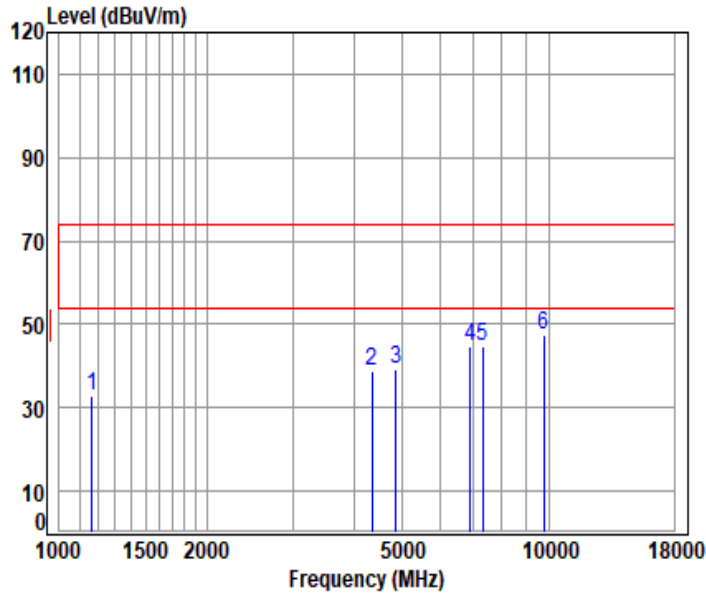
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11ax_20M_TX_CH_06_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2437 TX RSE

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1165.546	7.16	25.37	54.70	55.03	32.86	74.00 -41.14 peak
2	4354.454	8.50	31.29	55.85	54.90	38.84	74.00 -35.16 peak
3	4874.000	8.97	32.15	56.21	54.50	39.41	74.00 -34.59 peak
4	6914.763	10.94	36.17	56.72	54.53	44.92	74.00 -29.08 peak
5	7311.000	11.11	36.72	56.45	53.15	44.53	74.00 -29.47 peak
6 pp	9748.000	12.80	38.60	54.33	50.44	47.51	74.00 -26.49 peak



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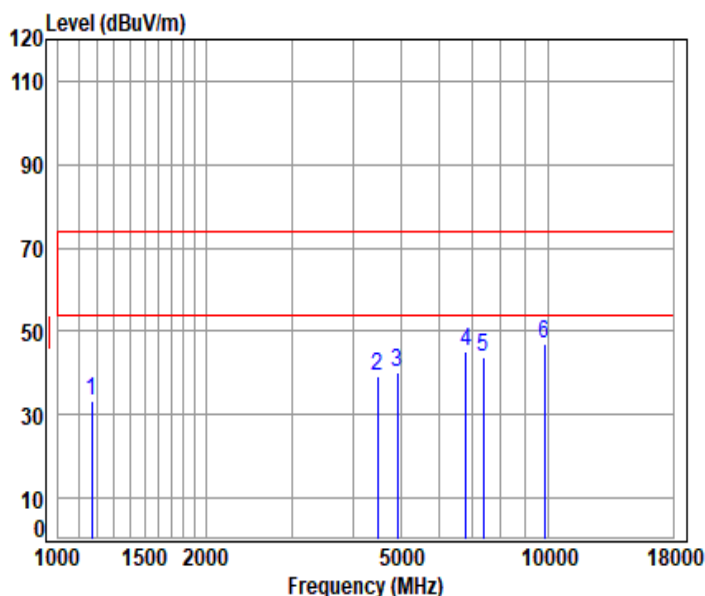
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360405

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11ax_20M_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 2462 TX RSE

: 2.4GWIFI 11AX20 MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	7.16	25.36	54.70	55.38	33.20	74.00	-40.80	peak
2	4495.125	8.56	31.58	55.95	54.82	39.01	74.00	-34.99	peak
3	4924.000	9.03	32.20	56.25	55.00	39.98	74.00	-34.02	peak
4	6795.879	10.97	35.88	56.74	54.99	45.10	74.00	-28.90	peak
5	7386.000	11.19	36.73	56.39	52.48	44.01	74.00	-29.99	peak
6 pp	9848.000	12.84	37.83	54.24	50.66	47.09	74.00	-26.91	peak



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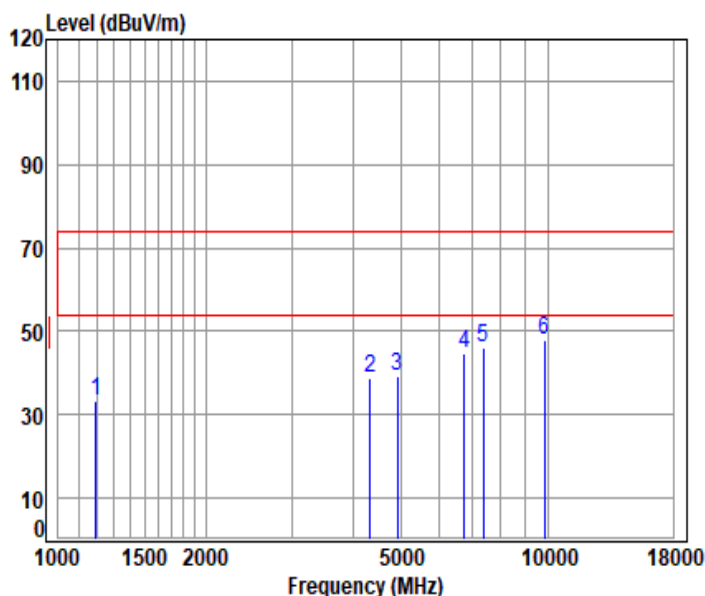
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360405

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11ax_20M_TX_CH_11_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 2462 TX RSE

: 2.4GWIFI 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1192.811	7.18	25.31	54.70	55.37	33.16	74.00 -40.84 peak
2	4329.354	8.48	31.30	55.83	54.97	38.92	74.00 -35.08 peak
3	4924.000	9.03	32.20	56.25	54.22	39.20	74.00 -34.80 peak
4	6737.207	10.87	35.62	56.75	54.81	44.55	74.00 -29.45 peak
5	7386.000	11.19	36.73	56.39	54.50	46.03	74.00 -27.97 peak
6	pp 9848.000	12.84	37.83	54.24	51.34	47.77	74.00 -26.23 peak



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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 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

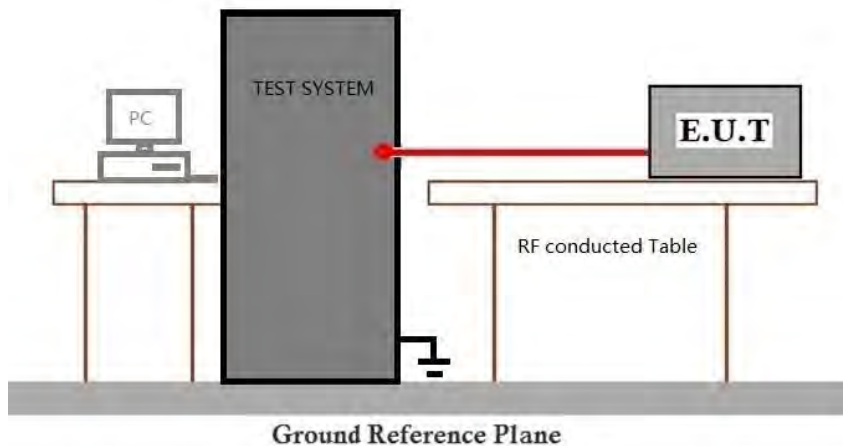
Humidity: 38.9 % RH

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. Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



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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.

Please Refer to Appendix for Details



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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 (2013) Section 11.8.1

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

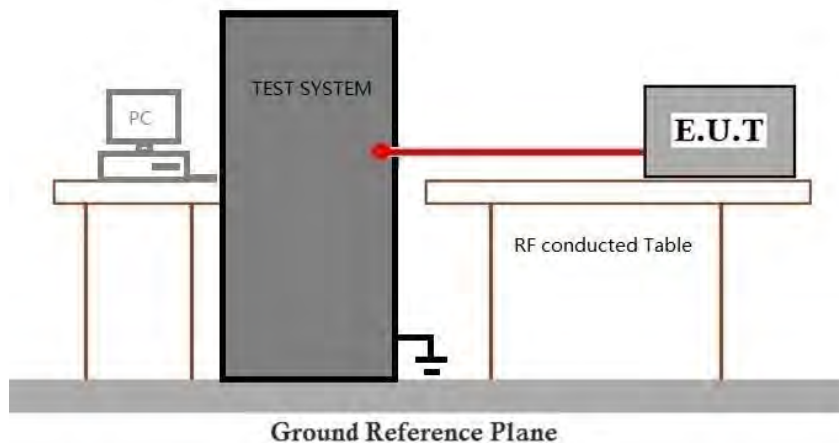
Humidity: 38.9 % RH

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. Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Power Spectrum Density

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

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

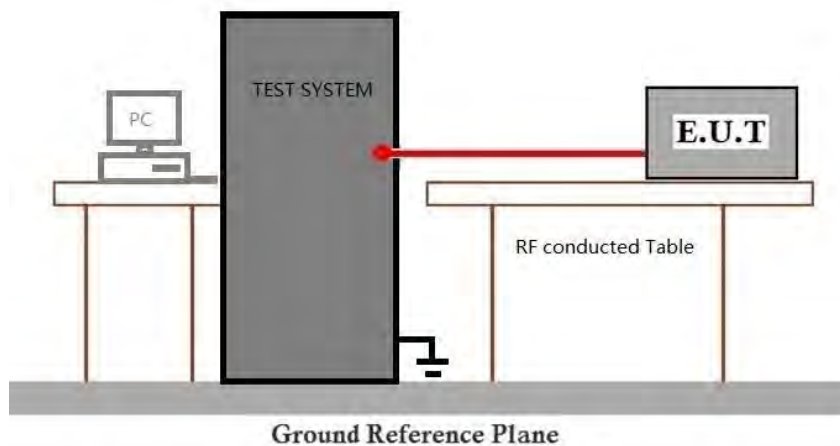
Humidity: 38.9 % RH

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. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

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

7.8.1 E.U.T. Operation

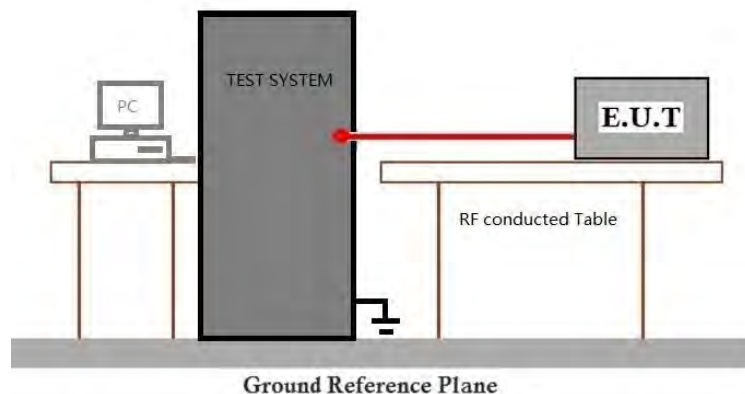
Operating Environment:

Temperature: 23.2 °C Humidity: 38.9 % 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. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Spurious Emissions

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

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

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

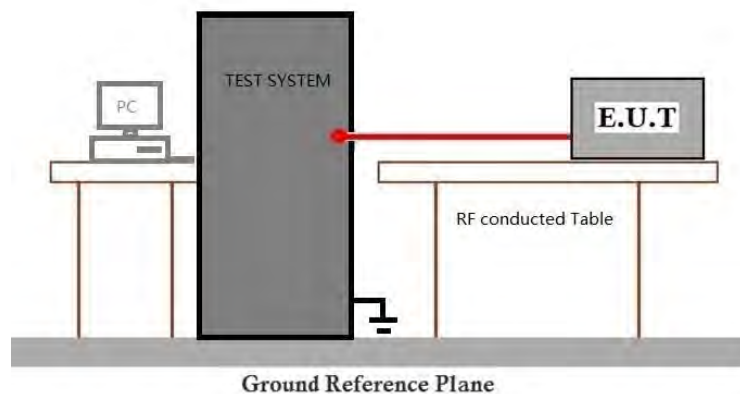
Humidity: 38.9 % RH

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. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Please refer to SZCR2409003604 Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Please refer to SZCR2409003604 Appendix_ External Photo and Internal Photo.



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10 Appendix

1. Duty Cycle

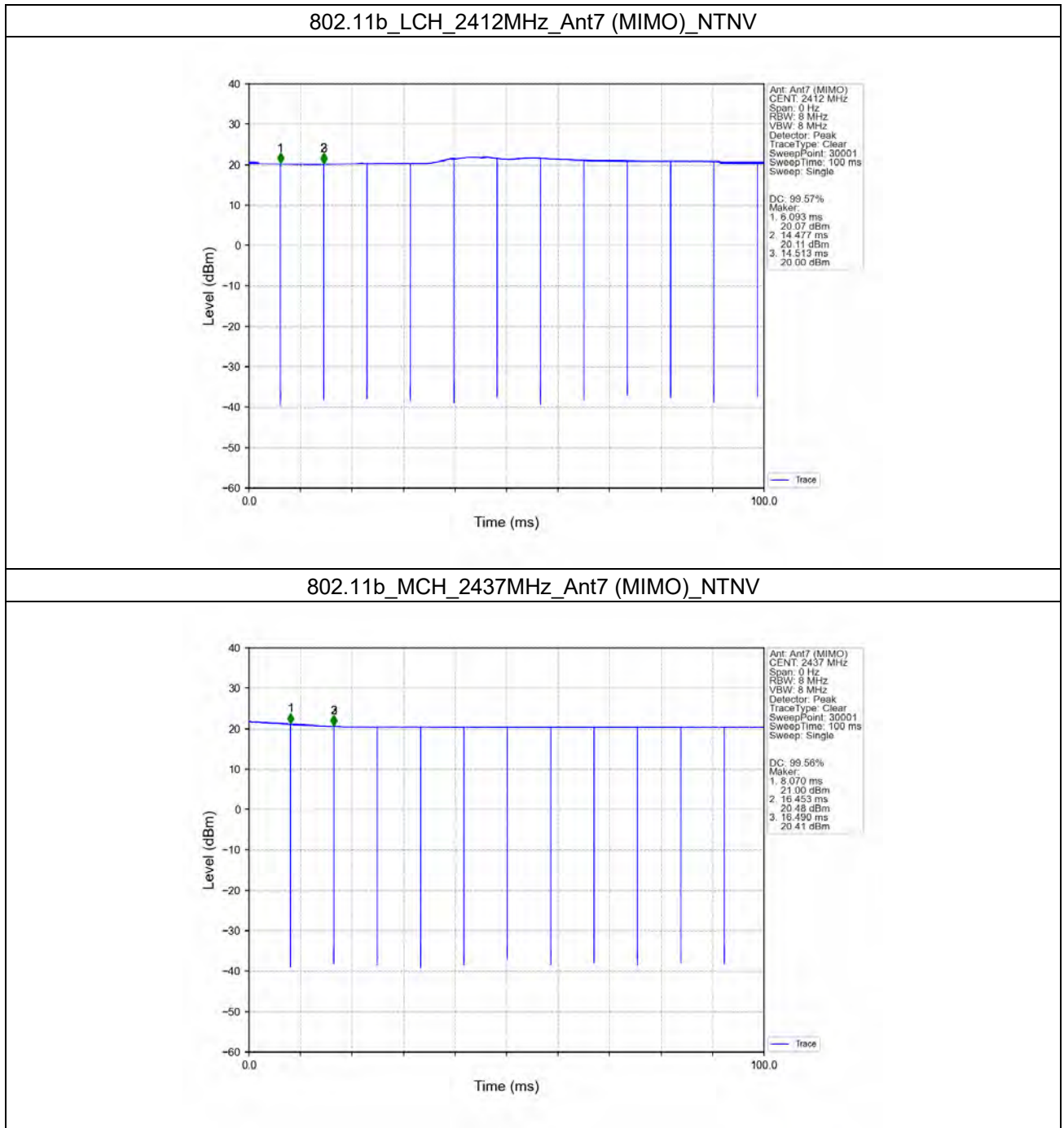
1.1 Test Result

1.1.1 Ant7

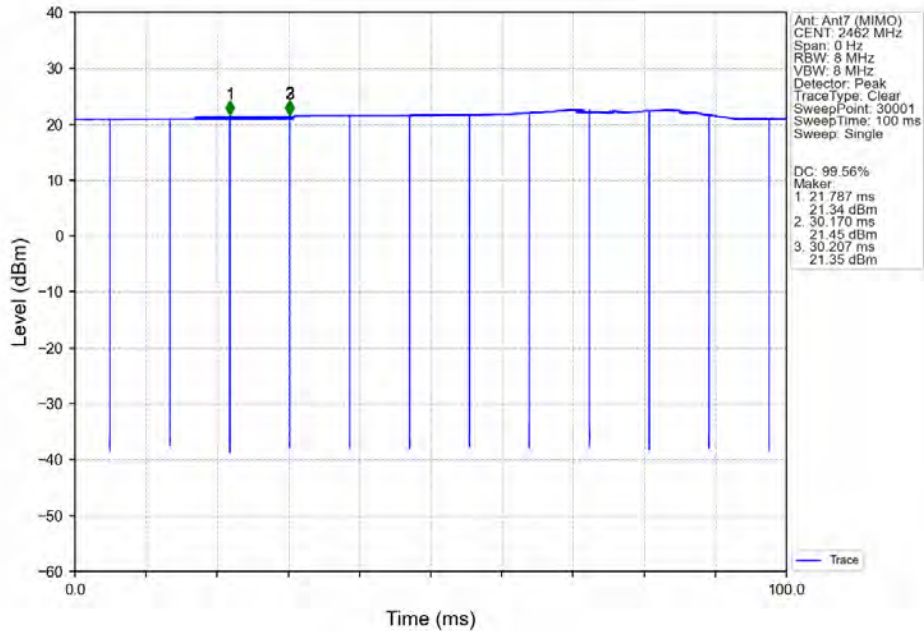
Ant7									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	MIMO	2412	/	/	8.384	8.420	99.57	0.02	0.04
		2437	/	/	8.383	8.420	99.56	0.02	0.04
		2462	/	/	8.383	8.420	99.56	0.02	0.04
802.11g	MIMO	2412	/	/	1.393	1.435	97.07	0.13	0.03
		2437	/	/	1.392	1.435	97.00	0.13	0.04
		2462	/	/	1.392	1.435	97.00	0.13	0.03
802.11n (HT20)	MIMO	2412	/	/	1.301	1.344	96.80	0.14	0.03
		2437	/	/	1.300	1.342	96.87	0.14	0.00
		2462	/	/	1.301	1.343	96.87	0.14	0.07
802.11n (HT40)	MIMO	2422	/	/	0.644	0.687	93.74	0.28	0.04
		2437	/	/	0.644	0.687	93.74	0.28	0.04
		2452	/	/	0.644	0.687	93.74	0.28	0.03
802.11ax (HEW20)	MIMO	2412	RU242	Left	1.089	1.132	96.20	0.17	0.03
		2437	RU242	Left	0.589	0.632	93.20	0.31	0.09
		2462	RU242	Left	0.590	0.632	93.35	0.30	0.03
802.11ax (HEW40)	MIMO	2422	RU484	Left	0.580	0.621	93.40	0.30	0.03
		2437	RU484	Left	0.579	0.622	93.09	0.31	0.06
		2452	RU484	Left	0.579	0.622	93.09	0.31	0.03
802.11ac (VHT20)	MIMO	2412	/	/	1.309	1.351	96.89	0.14	0.07
		2437	/	/	1.309	1.351	96.89	0.14	0.07
		2462	/	/	1.309	1.351	96.89	0.14	0.04
802.11ac (VHT40)	MIMO	2422	/	/	0.652	0.695	93.81	0.28	0.07
		2437	/	/	0.652	0.695	93.81	0.28	0.03
		2452	/	/	0.653	0.695	93.96	0.27	0.07

1.2 Test Graph

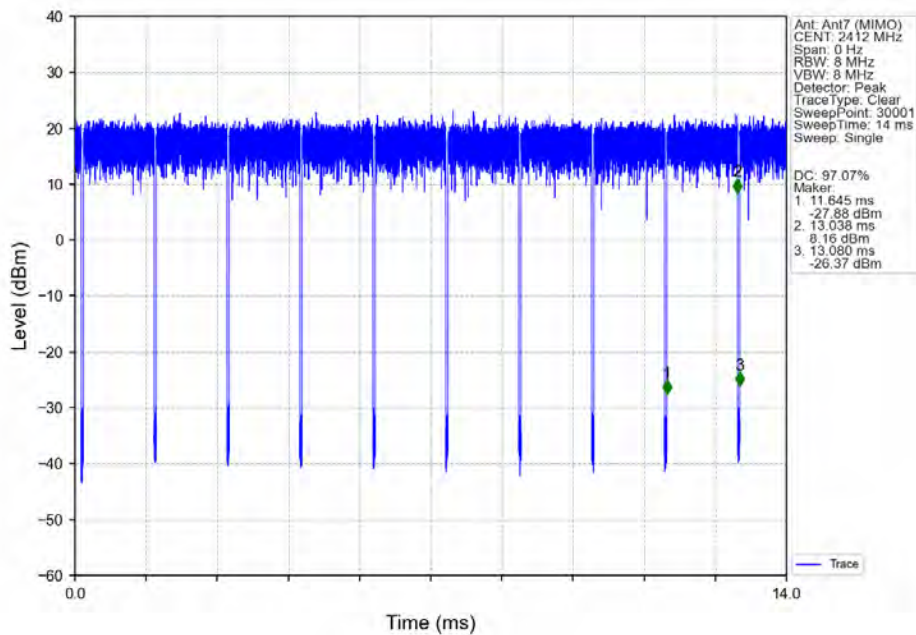
1.2.1 Ant7



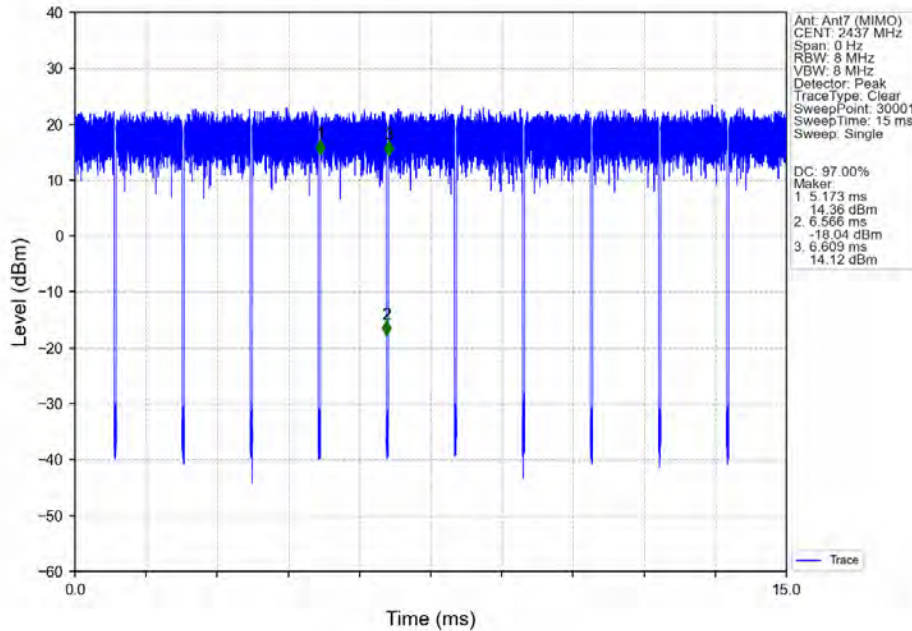
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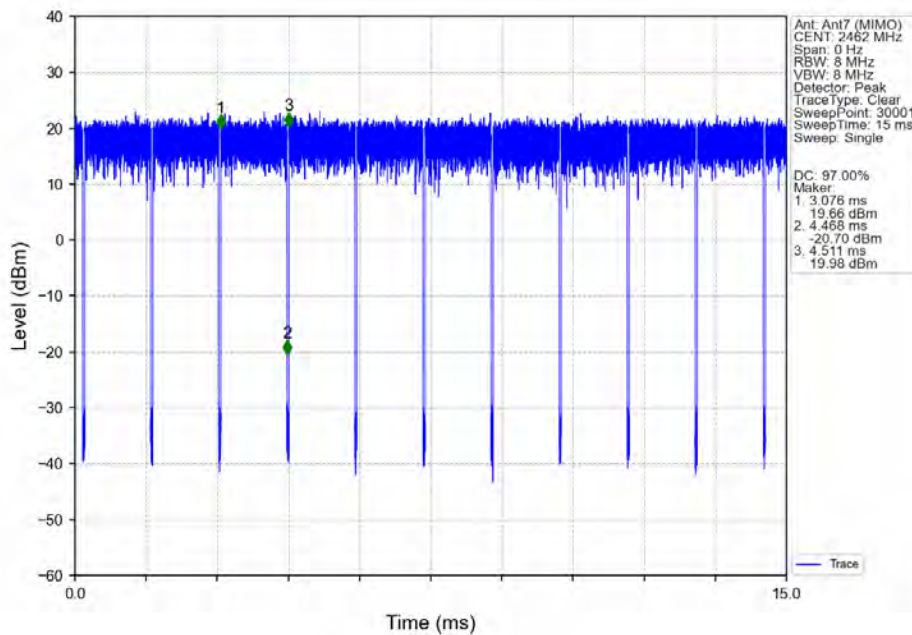
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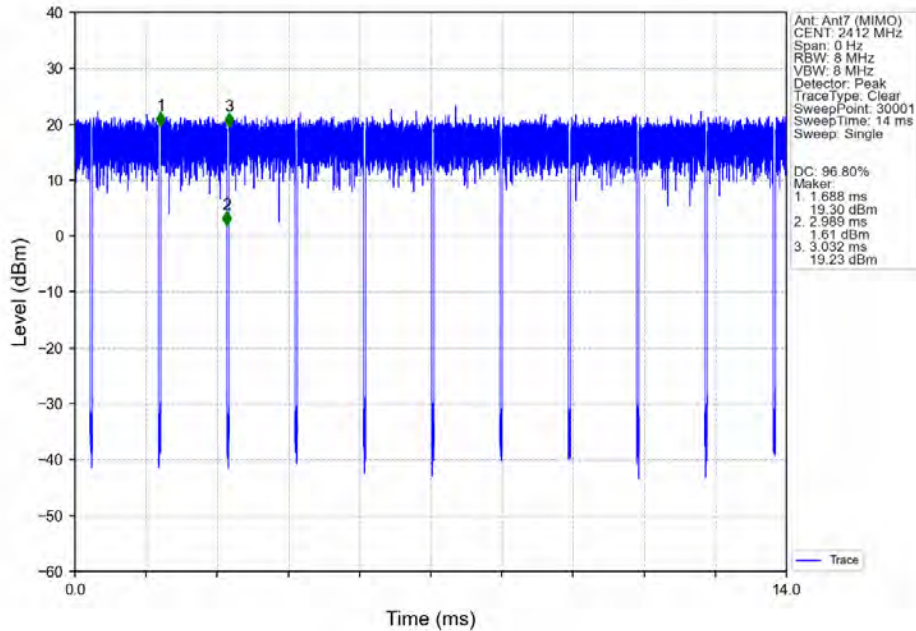
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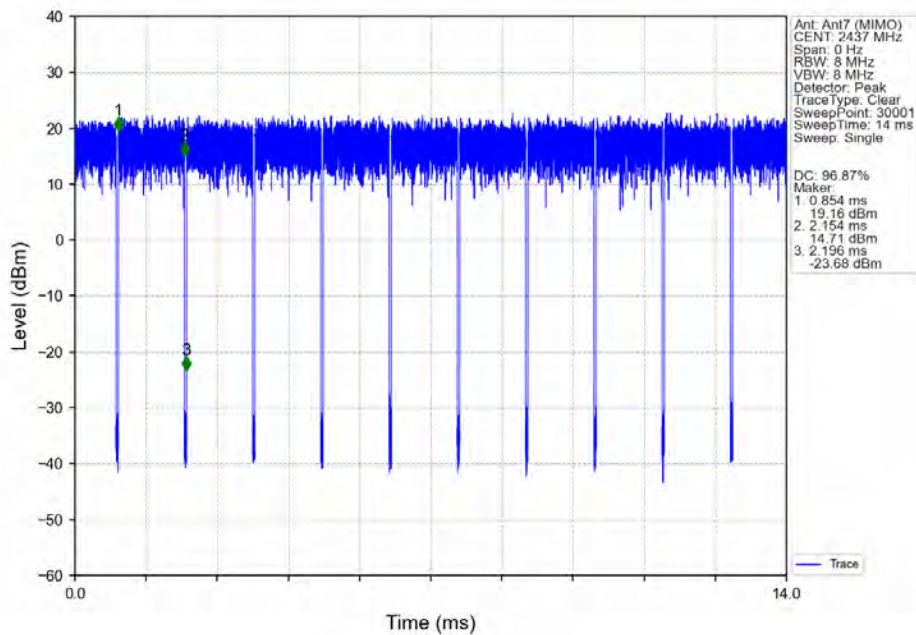
802.11g_HCH_2462MHz_Ant7 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant7 (MIMO)_NTNV



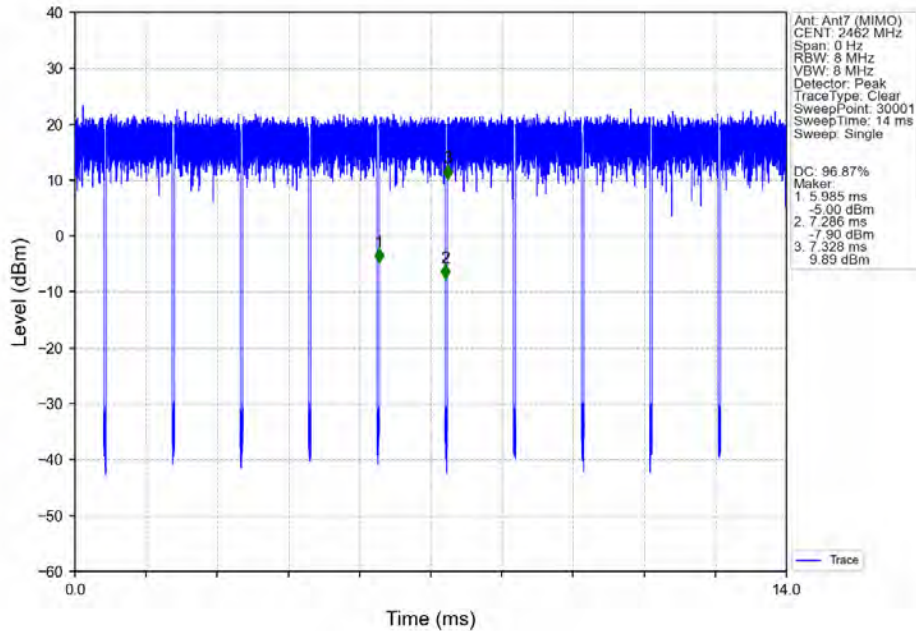
802.11n(HT20)_MCH_2437MHz_Ant7 (MIMO)_NTNV



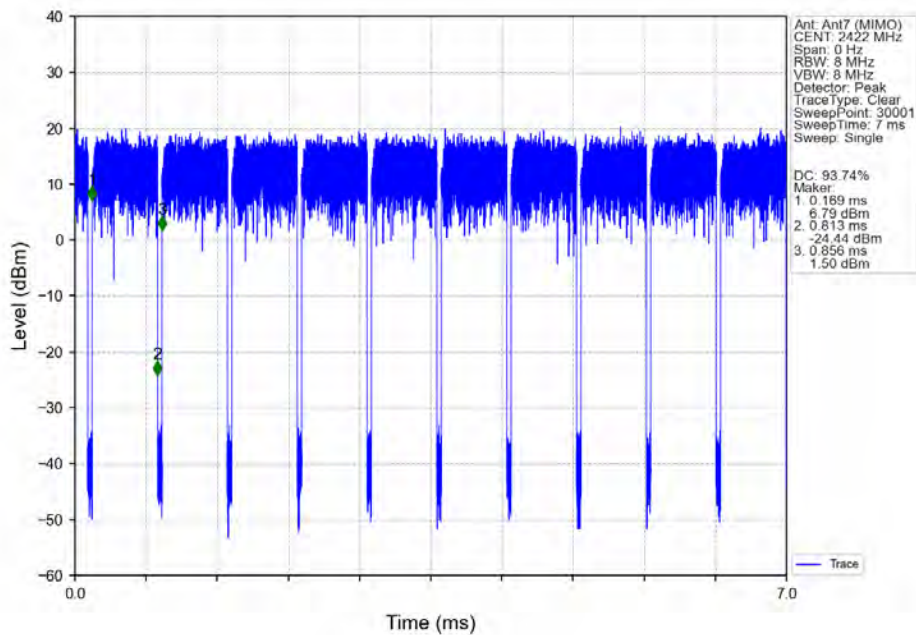
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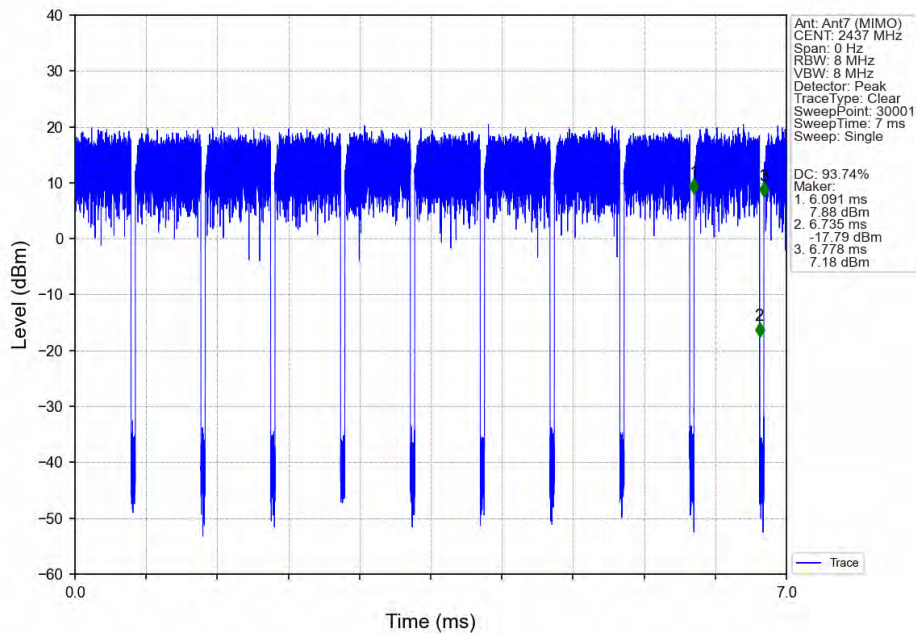
802.11n(HT20)_HCH_2462MHz_Ant7 (MIMO)_NTNV



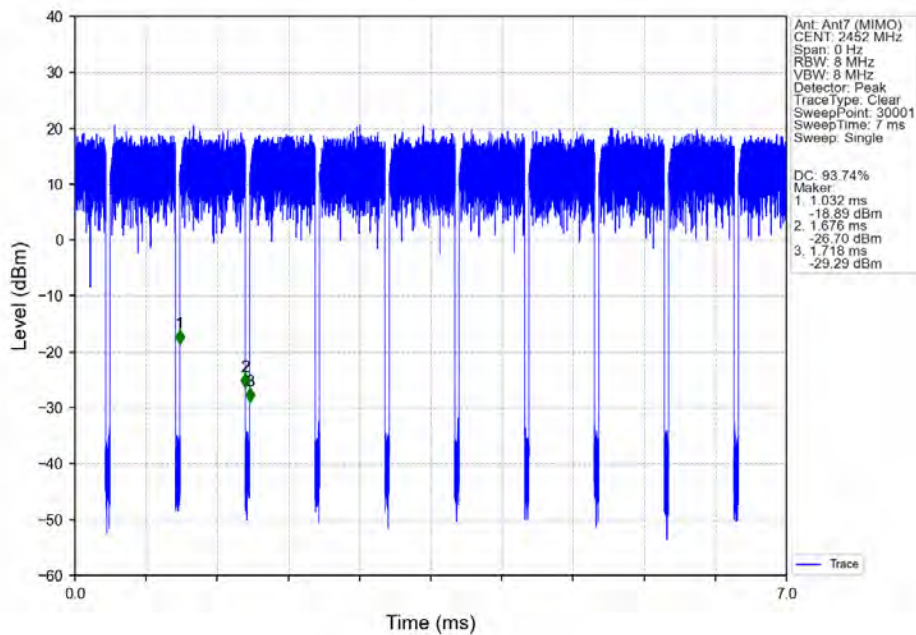
802.11n(HT40)_LCH_2422MHz_Ant7 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant7 (MIMO)_NTNV



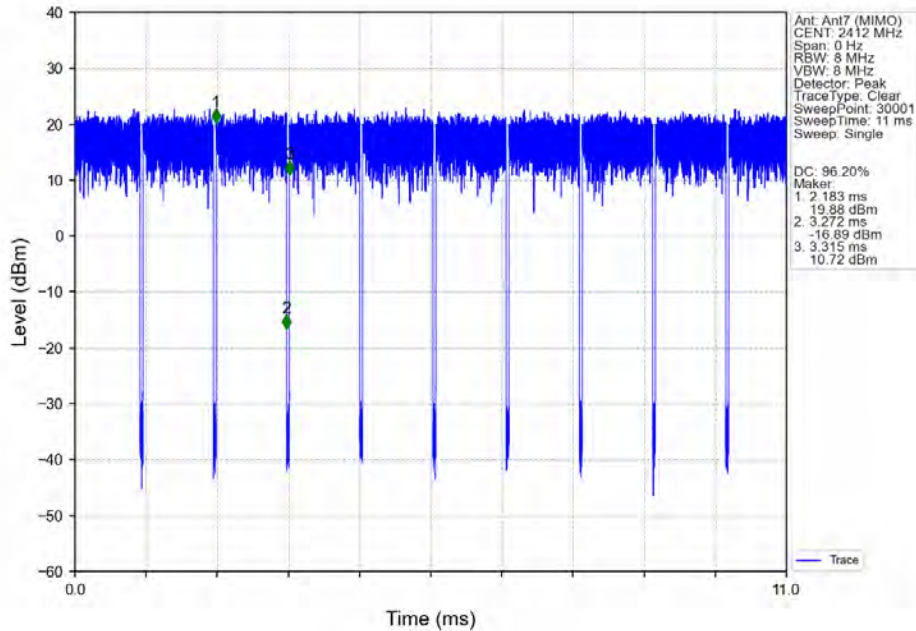
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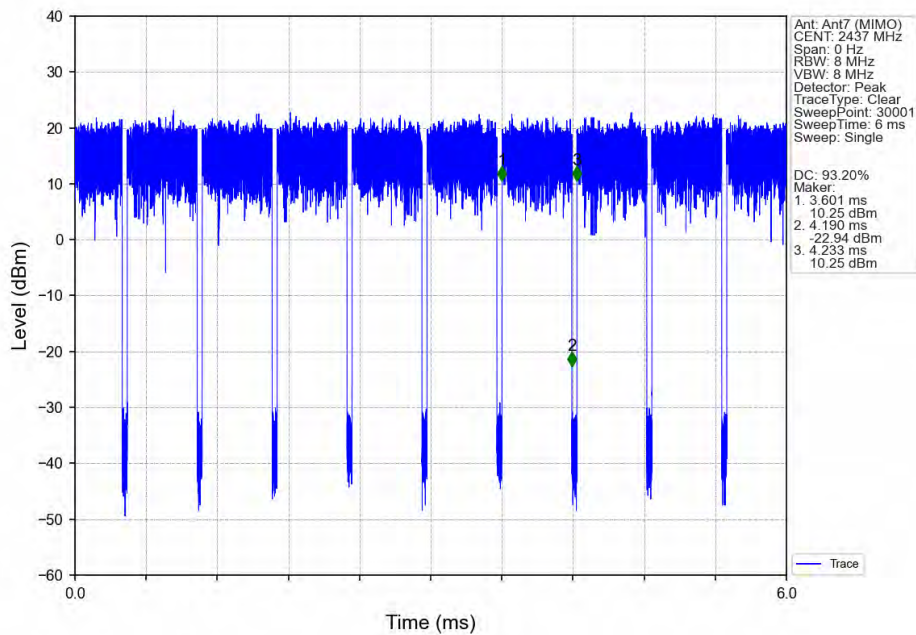
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant7 (MIMO)_NTNV



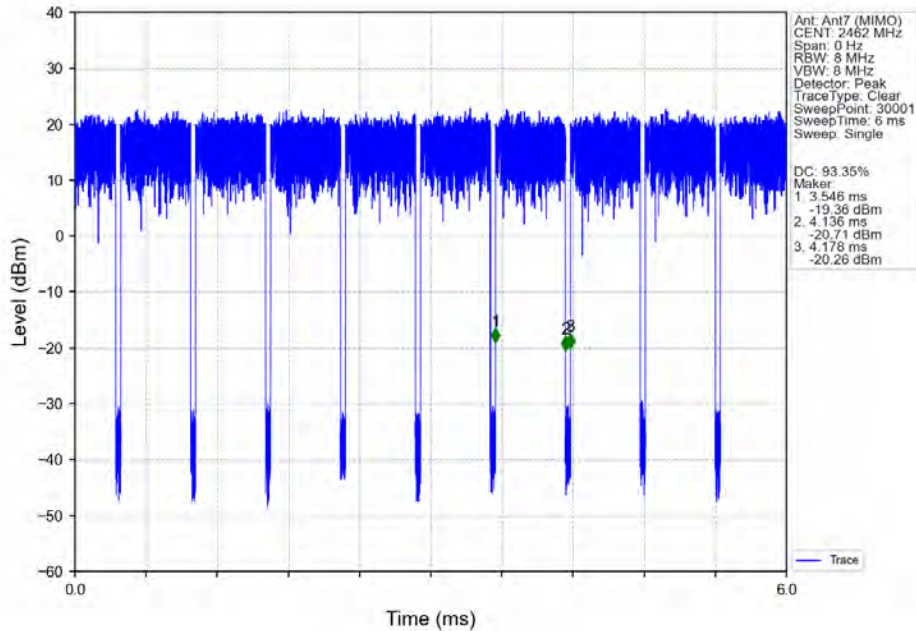
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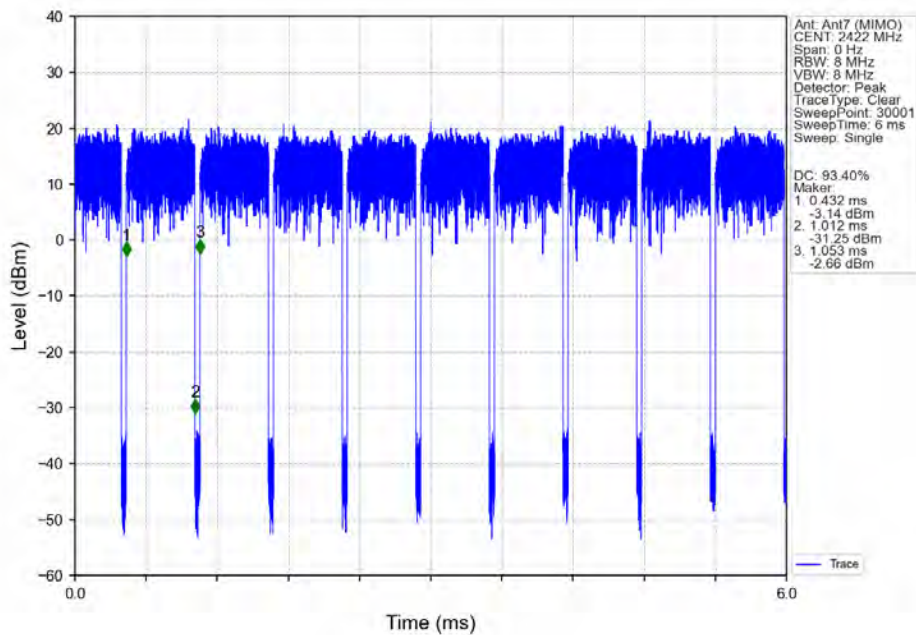
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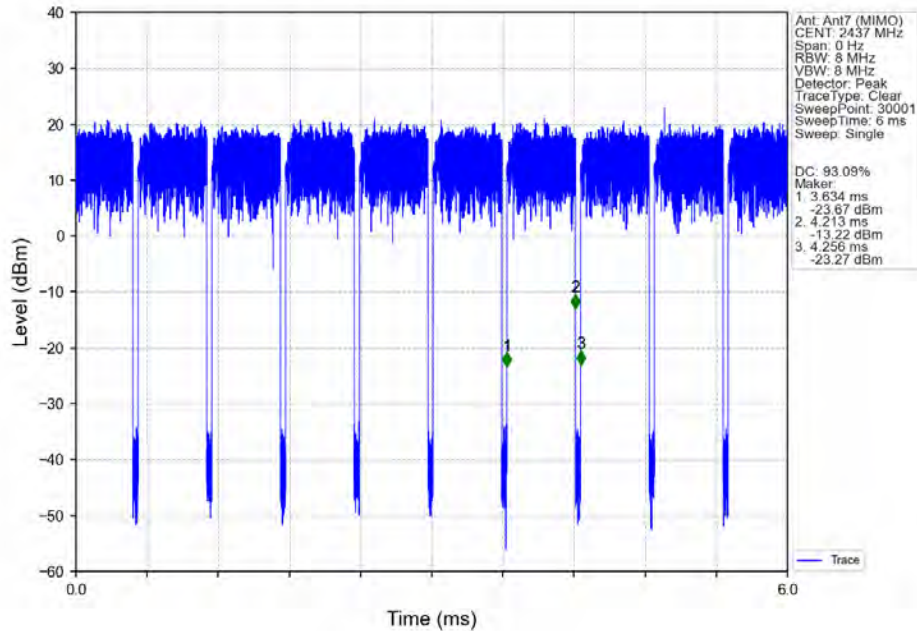
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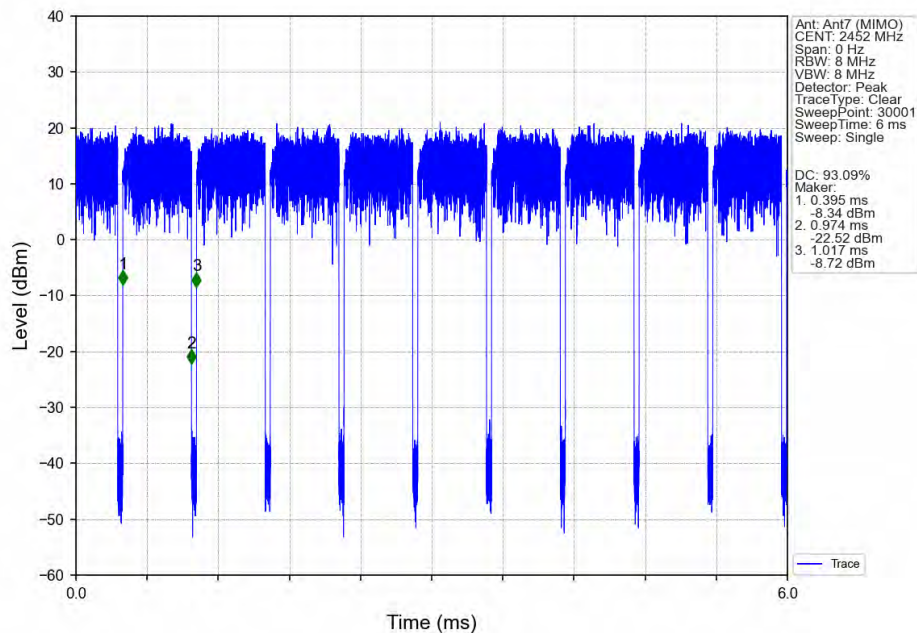
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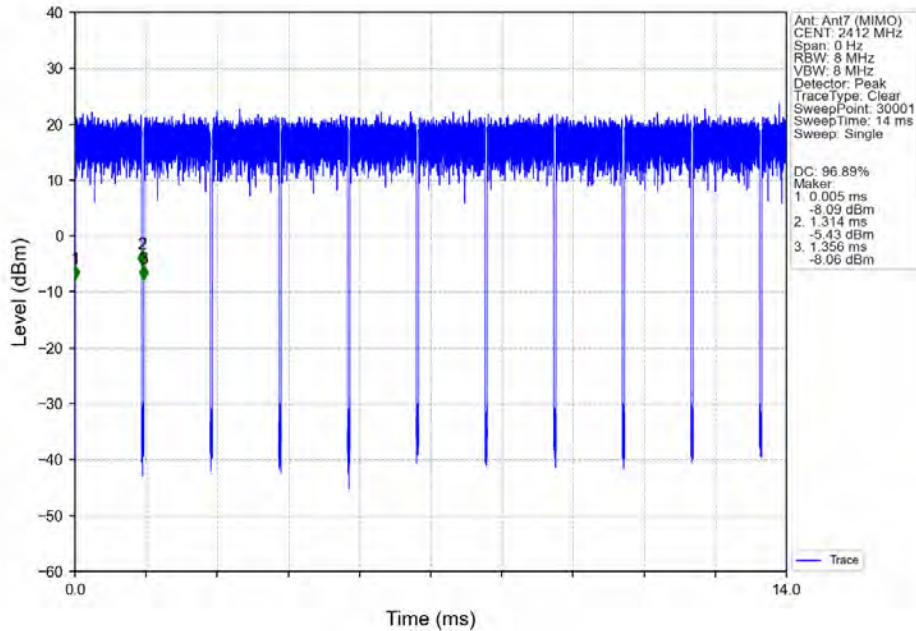
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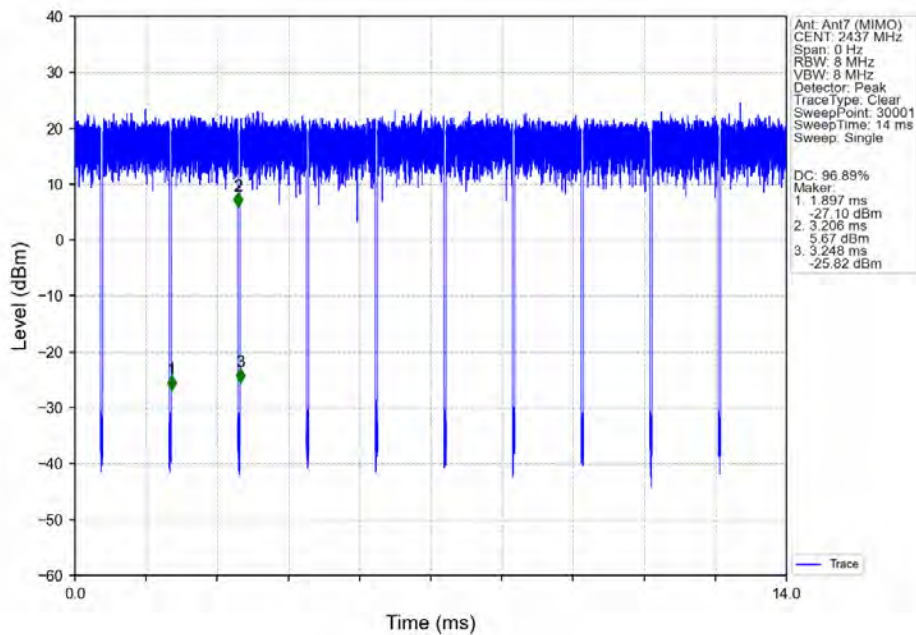
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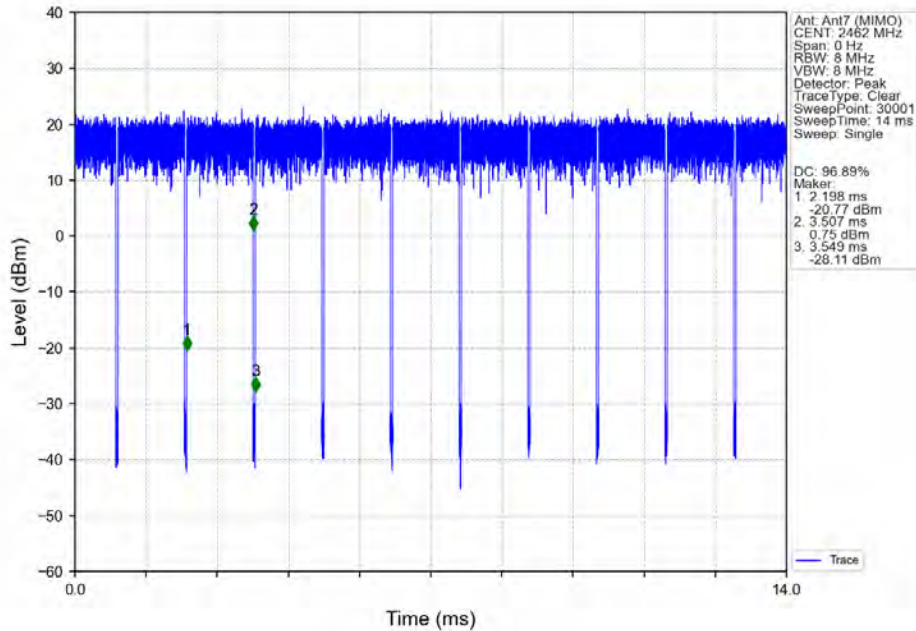
802.11ac(VHT20)_LCH_2412MHz_Ant7 (MIMO)_NTNV



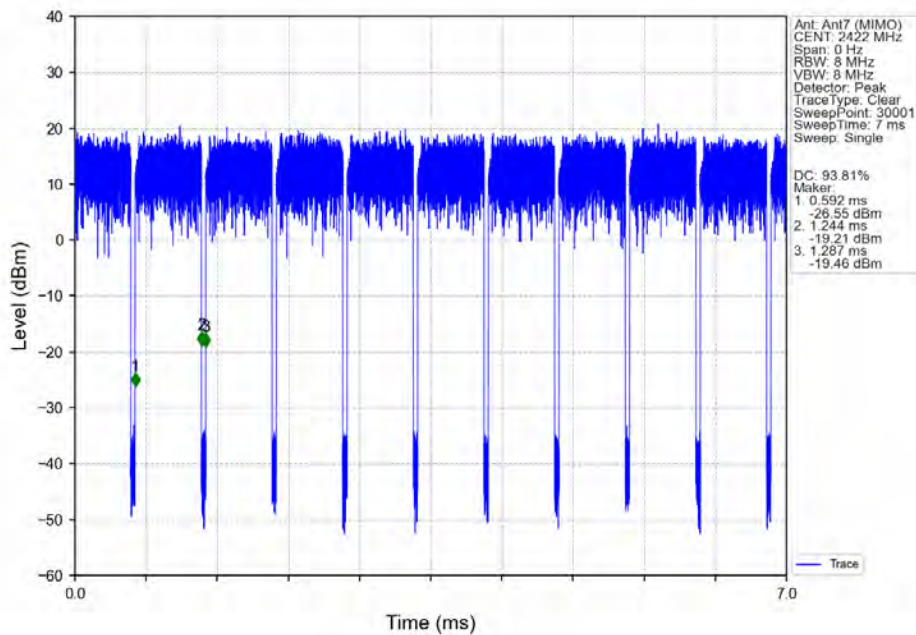
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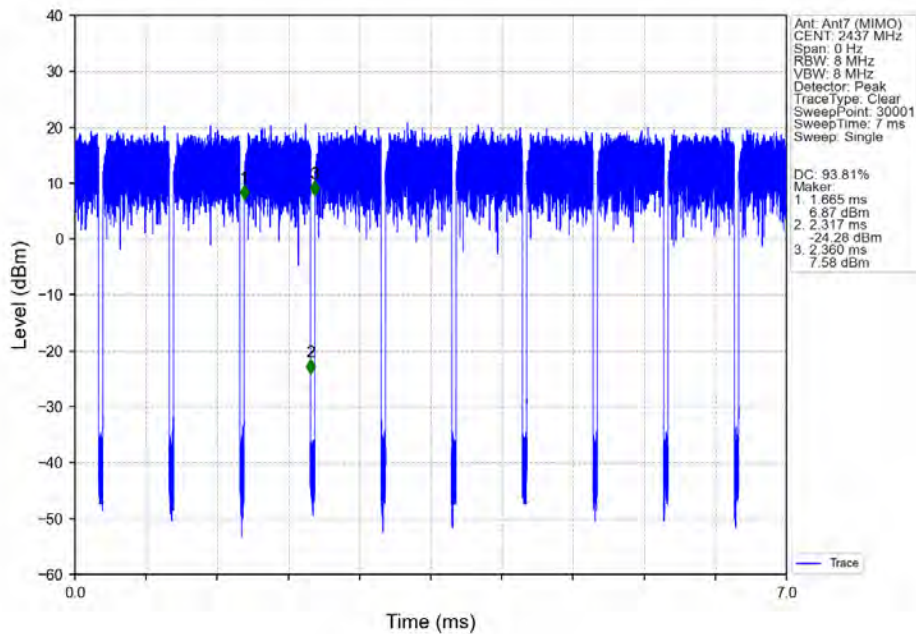
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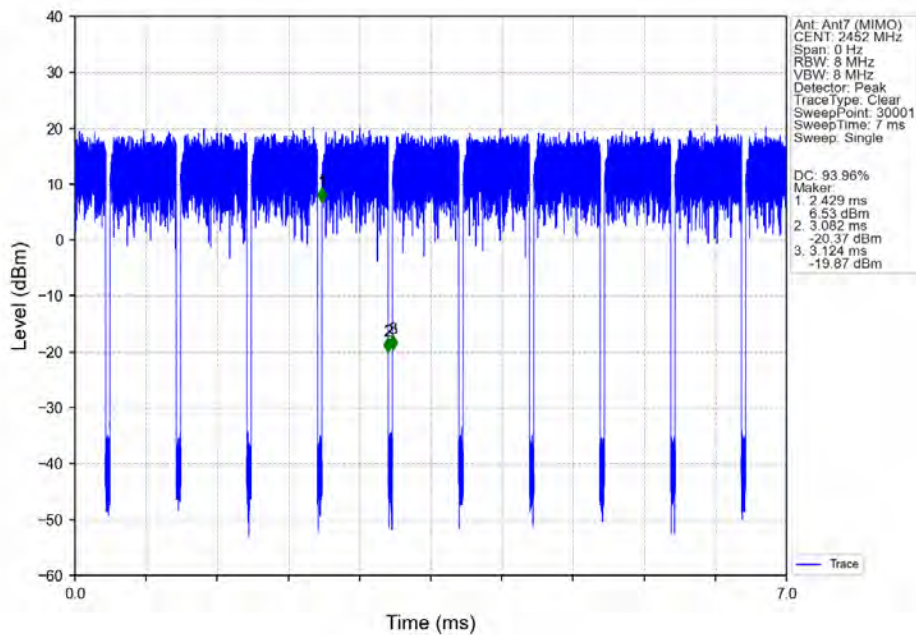
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802.11ac(VHT40)_MCH_2437MHz_Ant7 (MIMO)_NTNV



802.11ac(VHT40)_HCH_2452MHz_Ant7 (MIMO)_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	MIMO	2412	/	/	7	12.579	/	Pass
		2437	/	/	7	12.690	/	Pass
		2462	/	/	7	12.823	/	Pass
802.11g	MIMO	2412	/	/	7	17.669	/	Pass
		2437	/	/	7	17.442	/	Pass
		2462	/	/	7	17.765	/	Pass
802.11n (HT20)	MIMO	2412	/	/	7	18.448	/	Pass
		2437	/	/	7	18.450	/	Pass
		2462	/	/	7	18.768	/	Pass
802.11n (HT40)	MIMO	2422	/	/	7	36.852	/	Pass
		2437	/	/	7	36.879	/	Pass
		2452	/	/	7	36.827	/	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	7	18.926	/	Pass
		2437	RU242	Left	7	19.216	/	Pass
		2462	RU242	Left	7	19.271	/	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	7	37.868	/	Pass
		2437	RU484	Left	7	37.764	/	Pass
		2452	RU484	Left	7	37.826	/	Pass
802.11ac (VHT20)	MIMO	2412	/	/	7	18.447	/	Pass
		2437	/	/	7	18.461	/	Pass
		2462	/	/	7	18.744	/	Pass
802.11ac (VHT40)	MIMO	2422	/	/	7	36.746	/	Pass
		2437	/	/	7	36.943	/	Pass
		2452	/	/	7	36.774	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	MIMO	2412	/	/	7	8.079	>=0.5	Pass
		2437	/	/	7	8.102	>=0.5	Pass

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		2462	/	/	7	8.081	>=0.5	Pass
802.11g	MIMO	2412	/	/	7	15.699	>=0.5	Pass
		2437	/	/	7	15.367	>=0.5	Pass
		2462	/	/	7	15.547	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	7	15.982	>=0.5	Pass
		2437	/	/	7	15.180	>=0.5	Pass
		2462	/	/	7	15.149	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	7	35.147	>=0.5	Pass
		2437	/	/	7	35.112	>=0.5	Pass
		2452	/	/	7	35.171	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	7	18.691	>=0.5	Pass
		2437	RU242	Left	7	18.323	>=0.5	Pass
		2462	RU242	Left	7	18.326	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	7	36.493	>=0.5	Pass
		2437	RU484	Left	7	36.425	>=0.5	Pass
		2452	RU484	Left	7	37.334	>=0.5	Pass
802.11ac (VHT20)	MIMO	2412	/	/	7	15.999	>=0.5	Pass
		2437	/	/	7	15.351	>=0.5	Pass
		2462	/	/	7	15.335	>=0.5	Pass
802.11ac (VHT40)	MIMO	2422	/	/	7	35.160	>=0.5	Pass
		2437	/	/	7	35.155	>=0.5	Pass
		2452	/	/	7	35.170	>=0.5	Pass



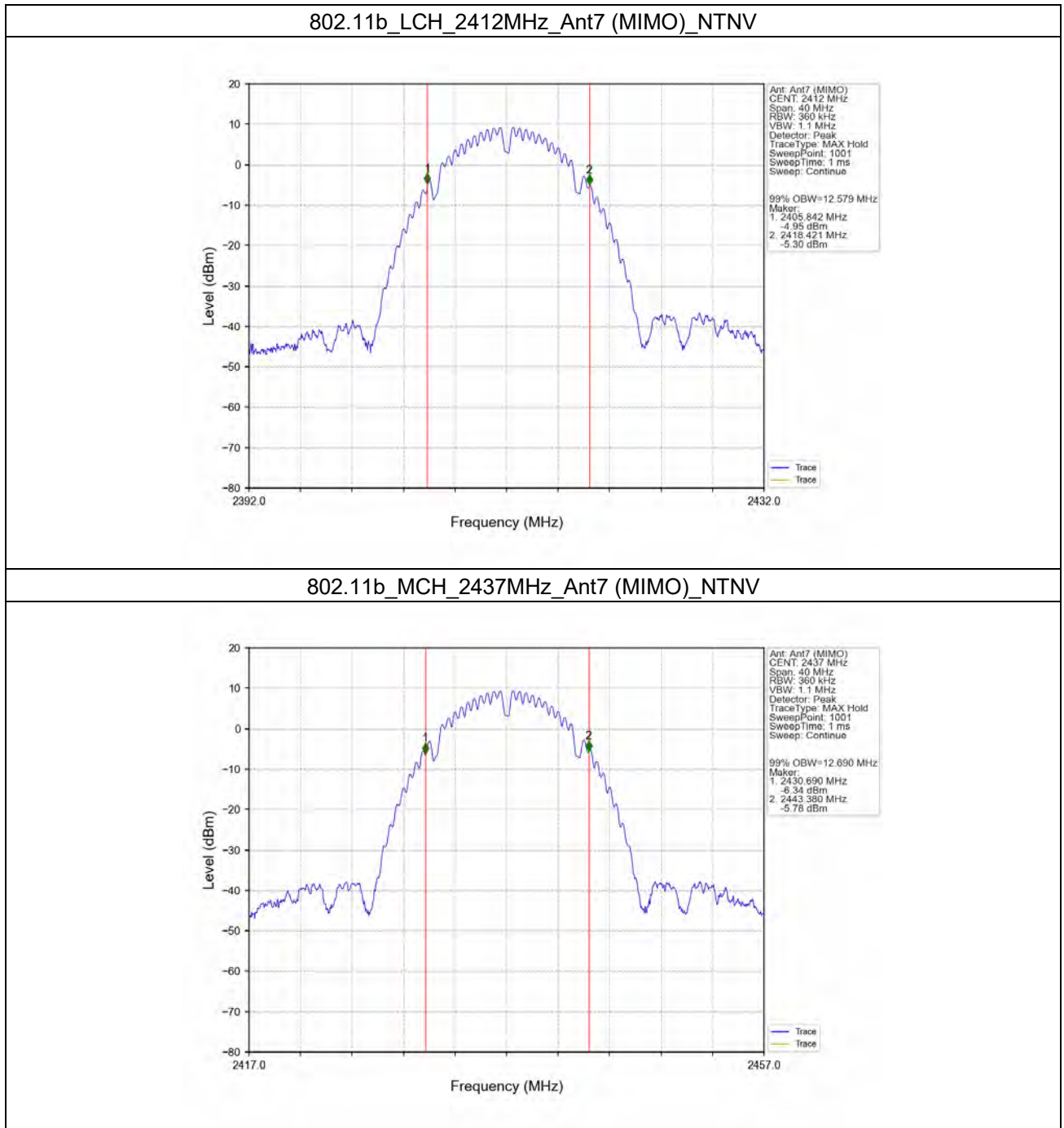
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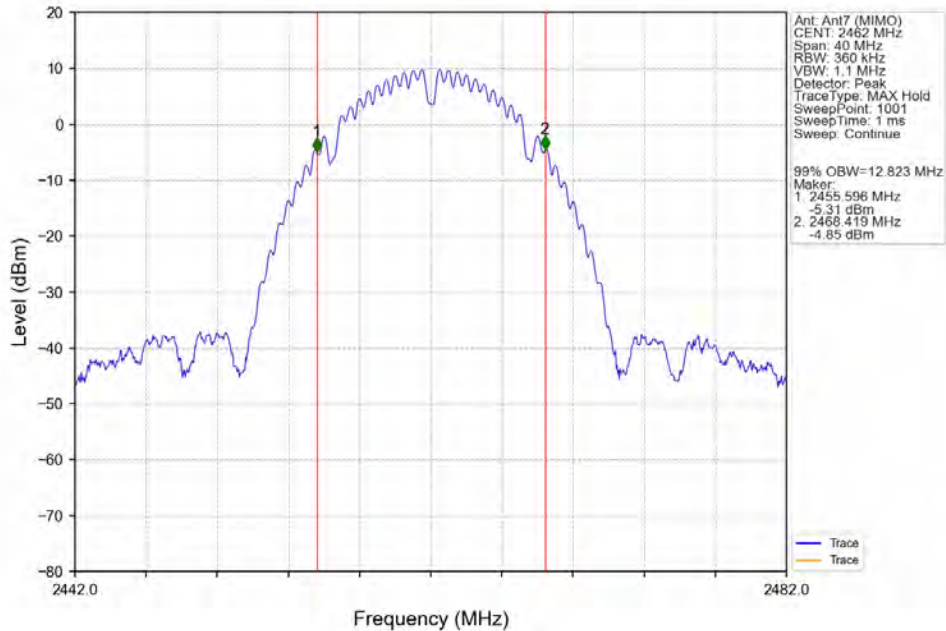
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2.2 Test Graph

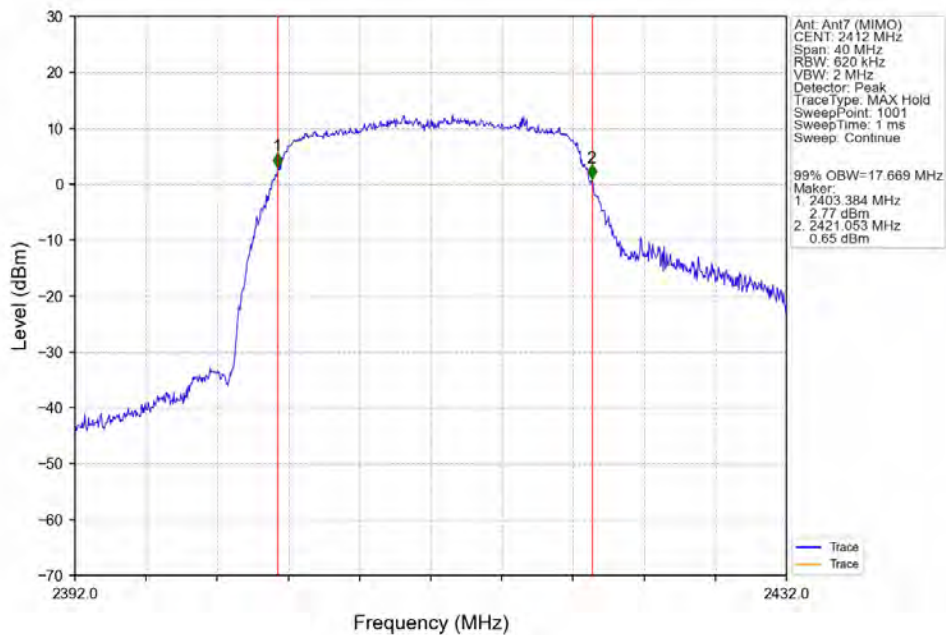
2.2.1 OBW



802.11b_HCH_2462MHz_Ant7 (MIMO)_NTNV



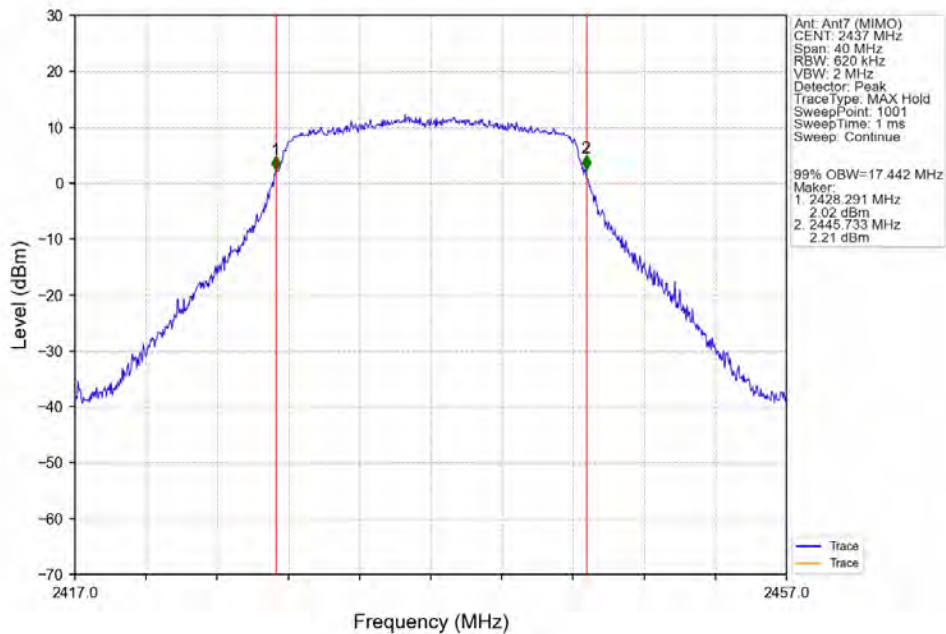
802.11g_LCH_2412MHz_Ant7 (MIMO)_NTNV



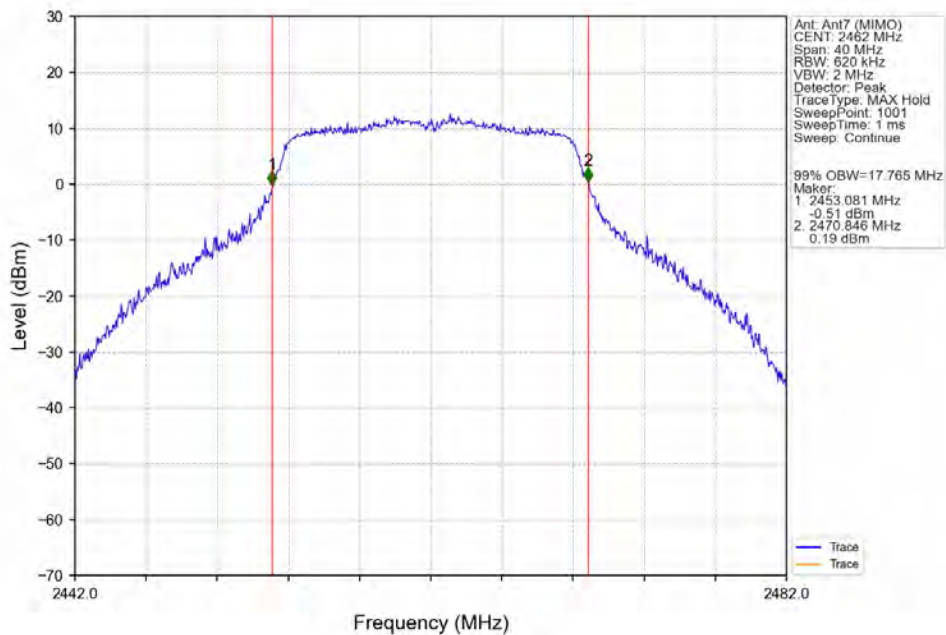
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802.11g_MCH_2437MHz_Ant7 (MIMO)_NTNV



802.11g_HCH_2462MHz_Ant7 (MIMO)_NTNV



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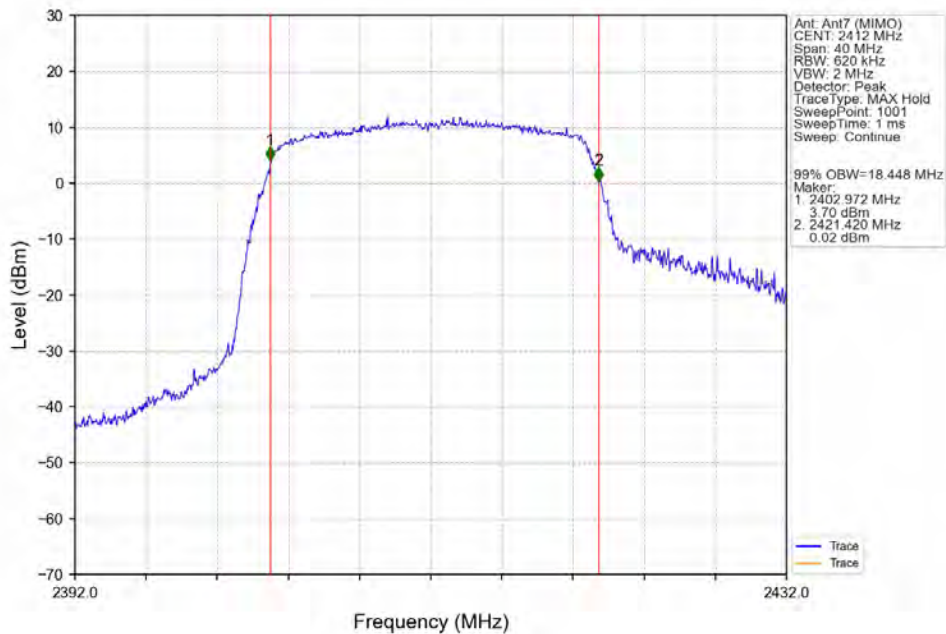
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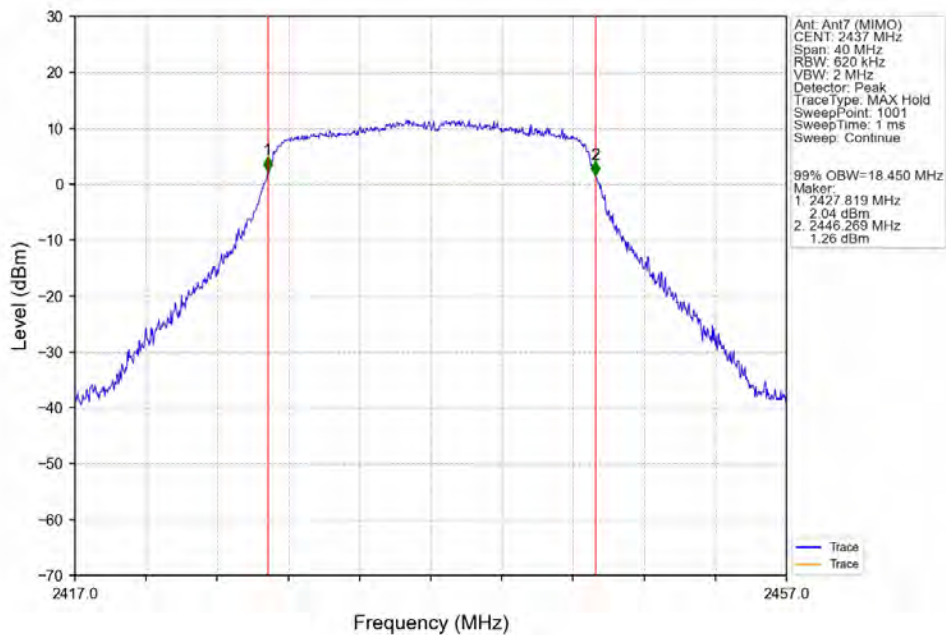
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802.11n(HT20)_LCH_2412MHz_Ant7 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant7 (MIMO)_NTNV



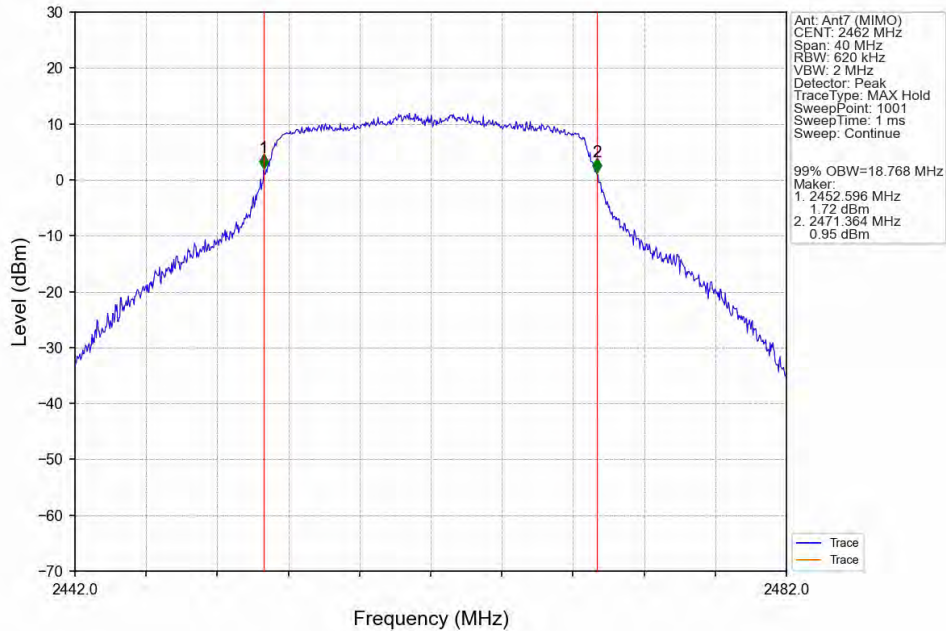
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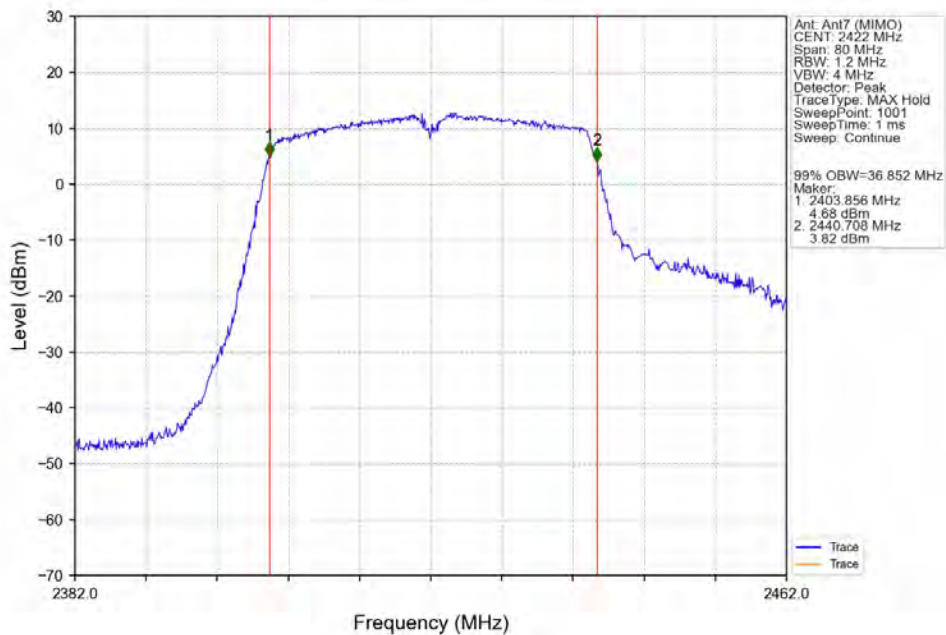
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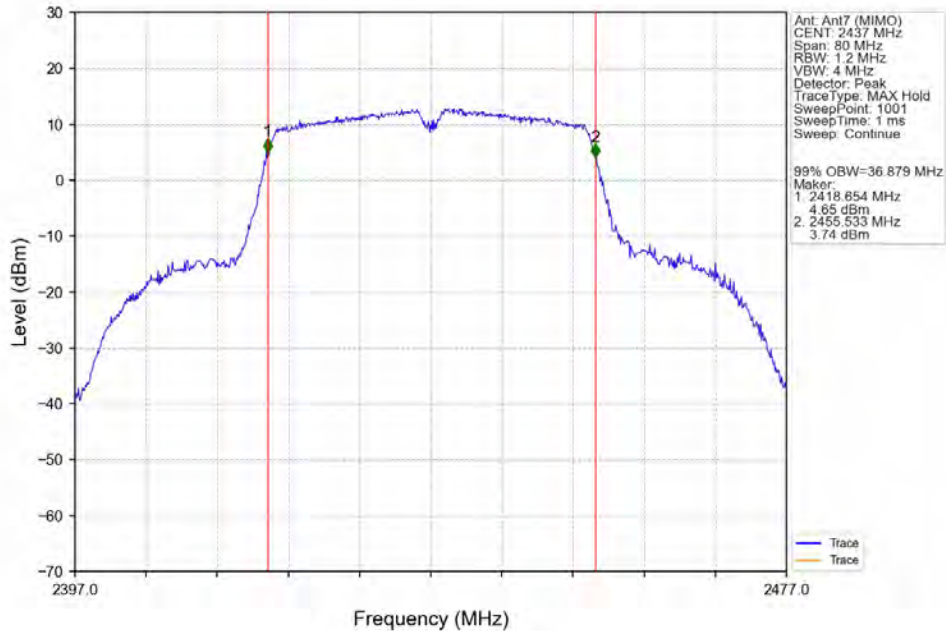
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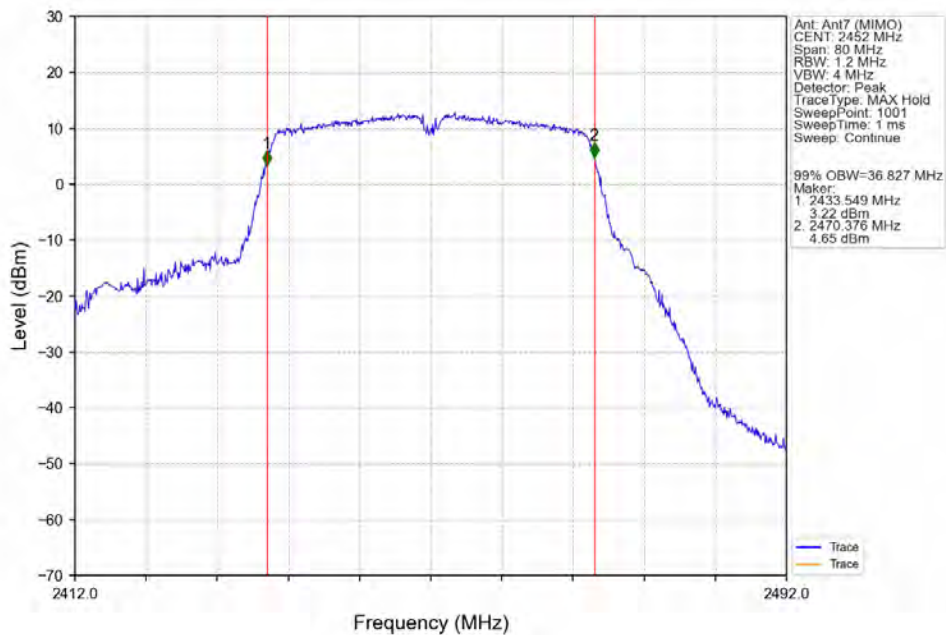
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802.11n(HT40)_MCH_2437MHz_Ant7 (MIMO)_NTNV



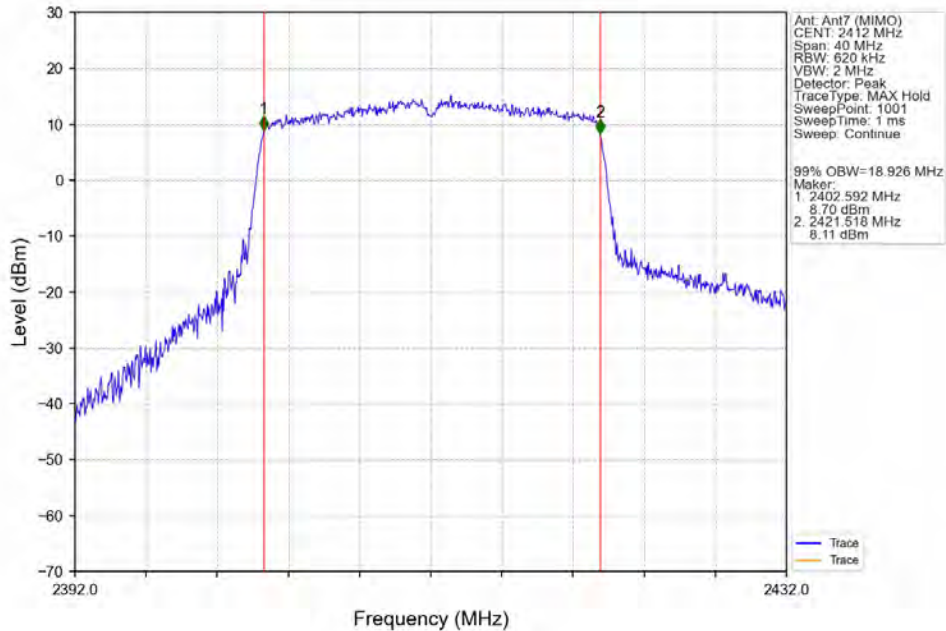
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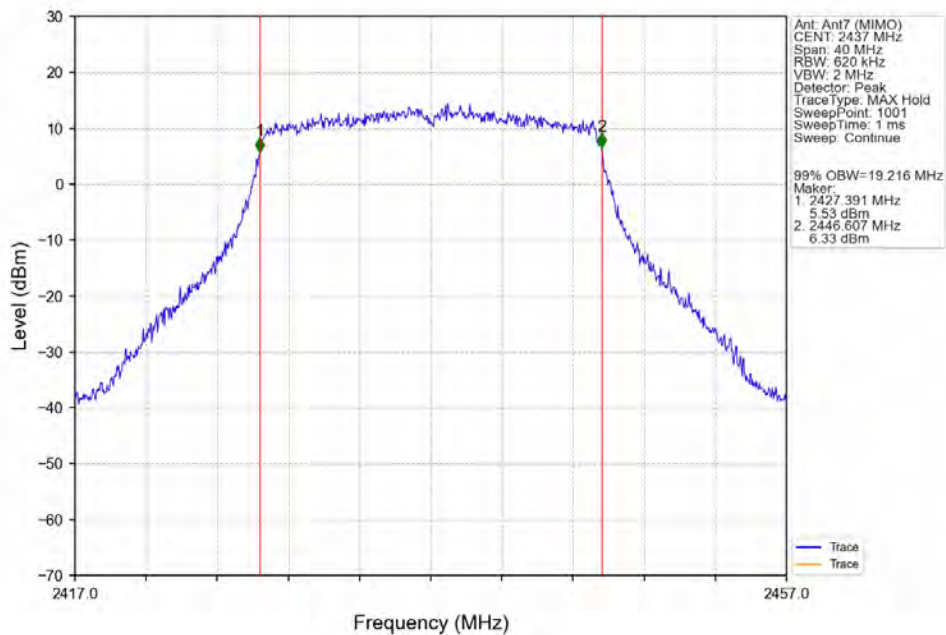
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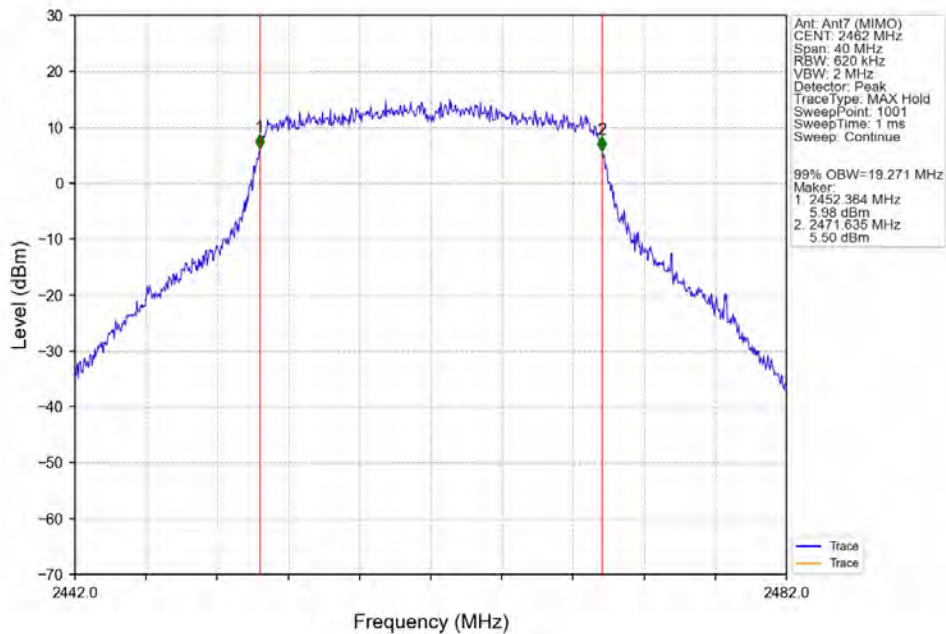
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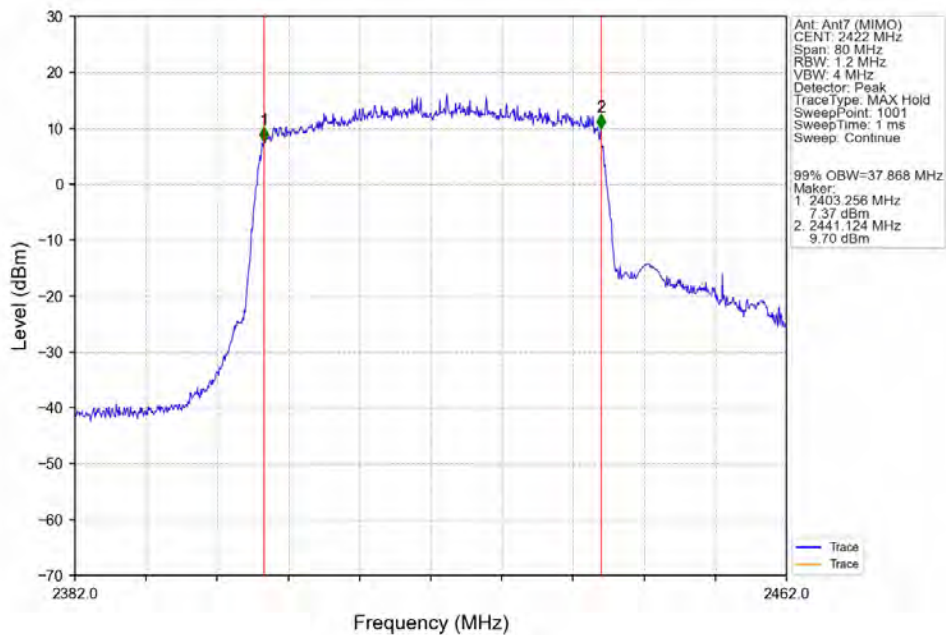
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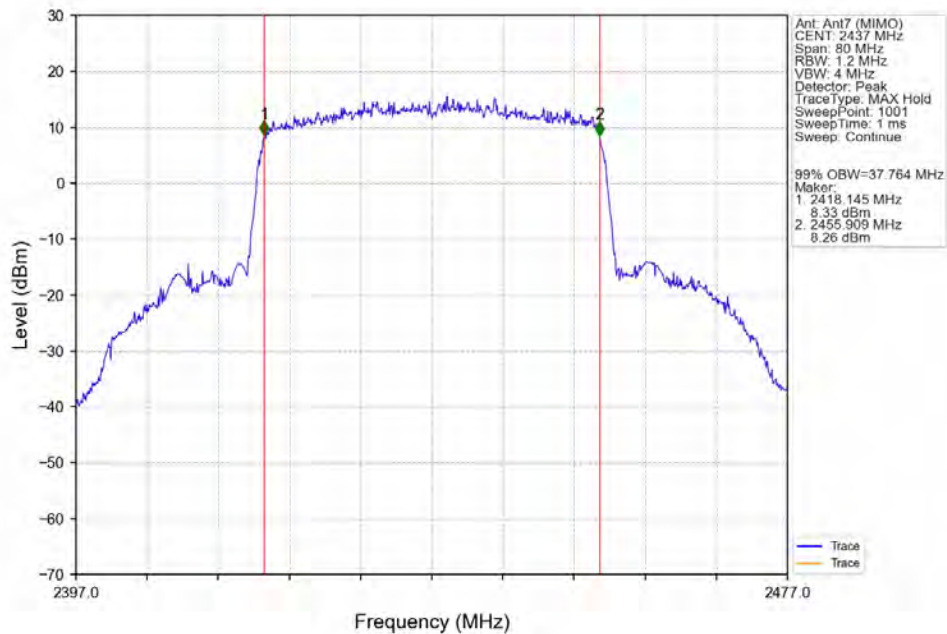
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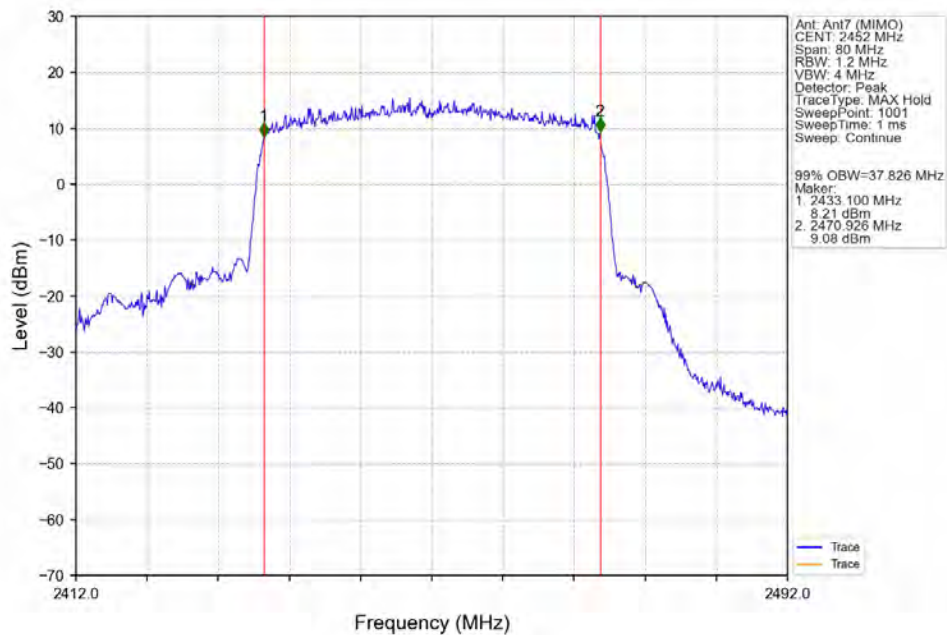
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802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant7 (MIMO)_NTNV



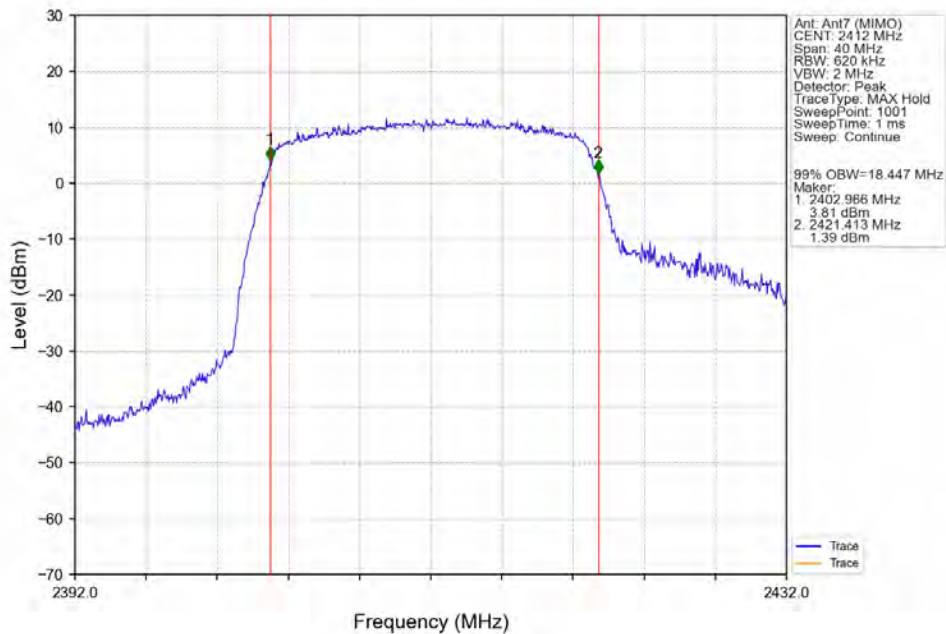
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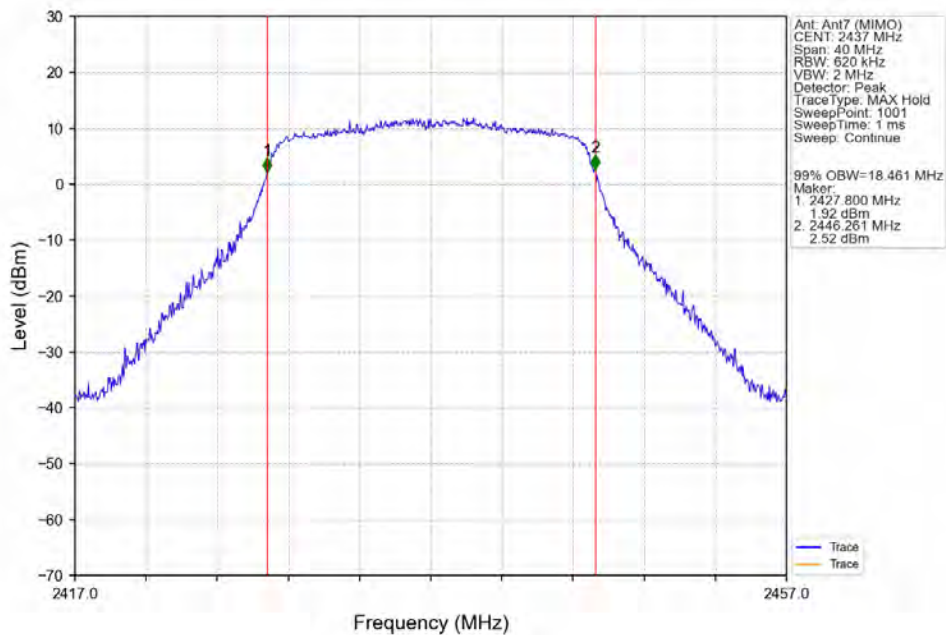
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802.11ac(VHT20)_LCH_2412MHz_Ant7 (MIMO)_NTNV



802.11ac(VHT20)_MCH_2437MHz_Ant7 (MIMO)_NTNV



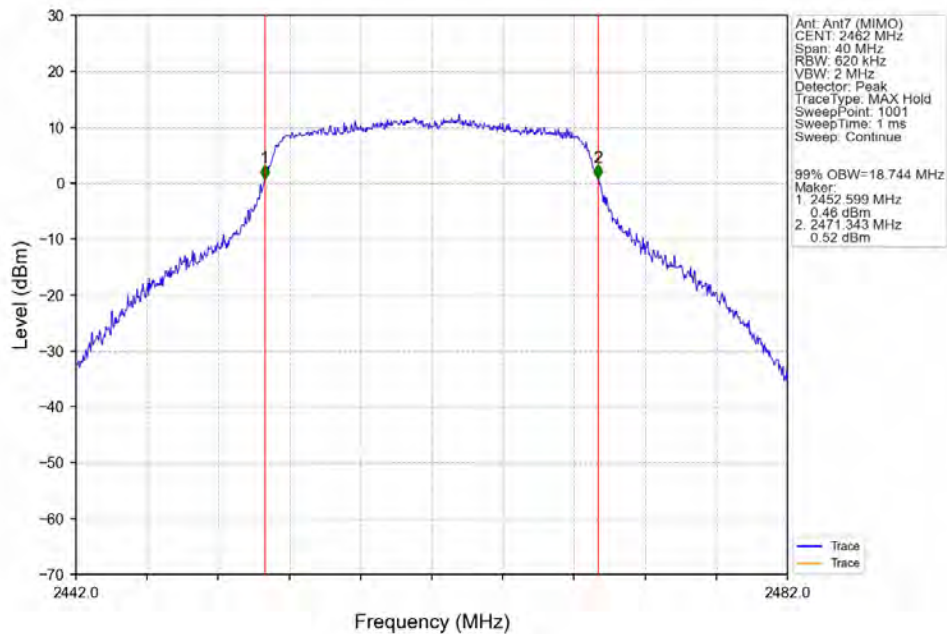
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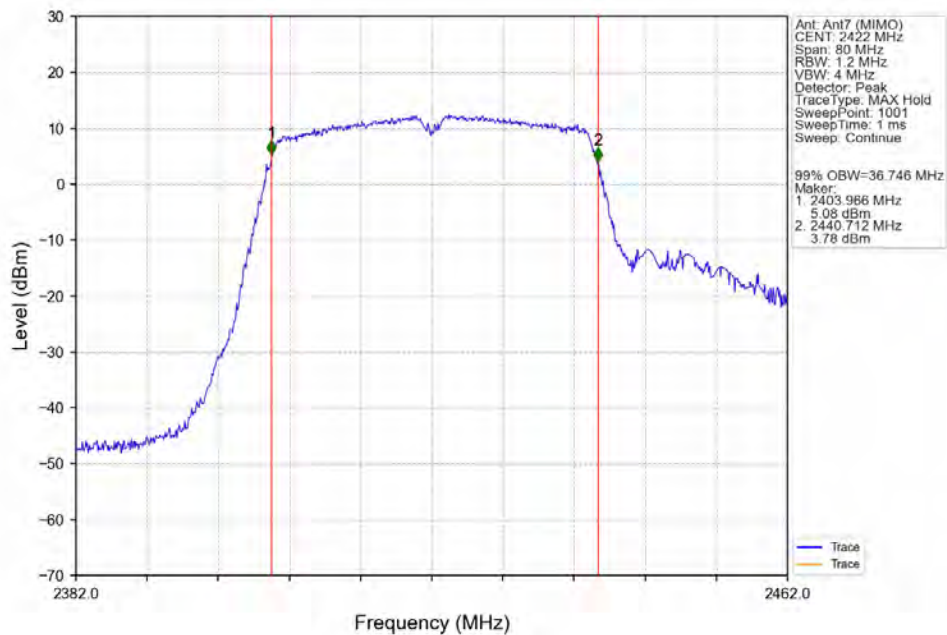
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802.11ac(VHT20)_HCH_2462MHz_Ant7 (MIMO)_NTNV



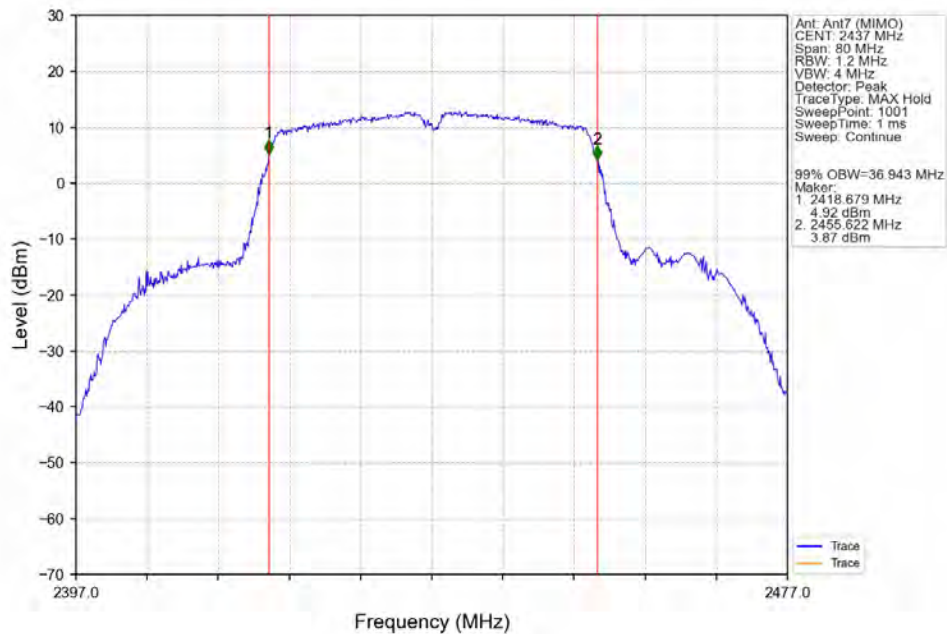
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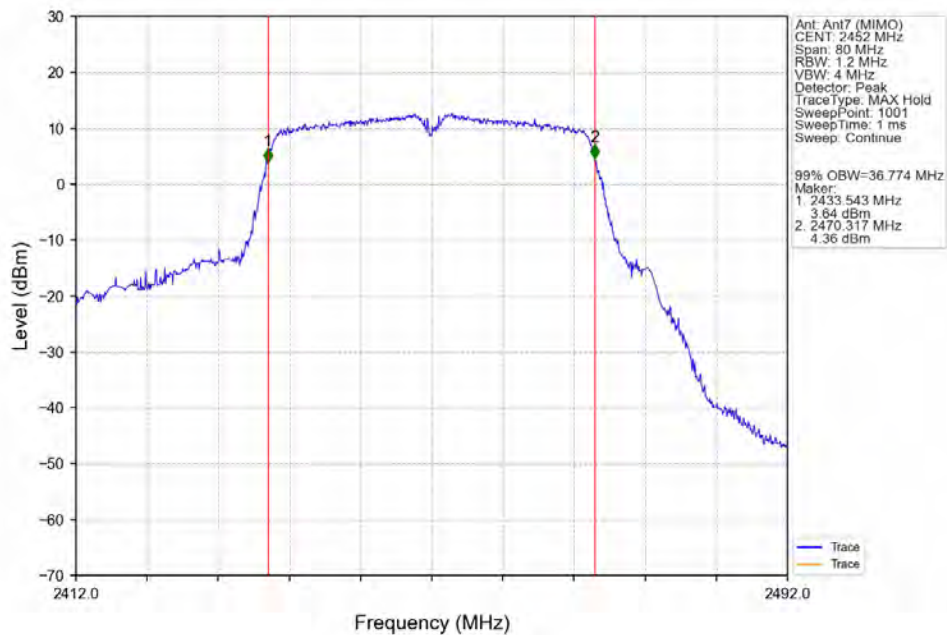
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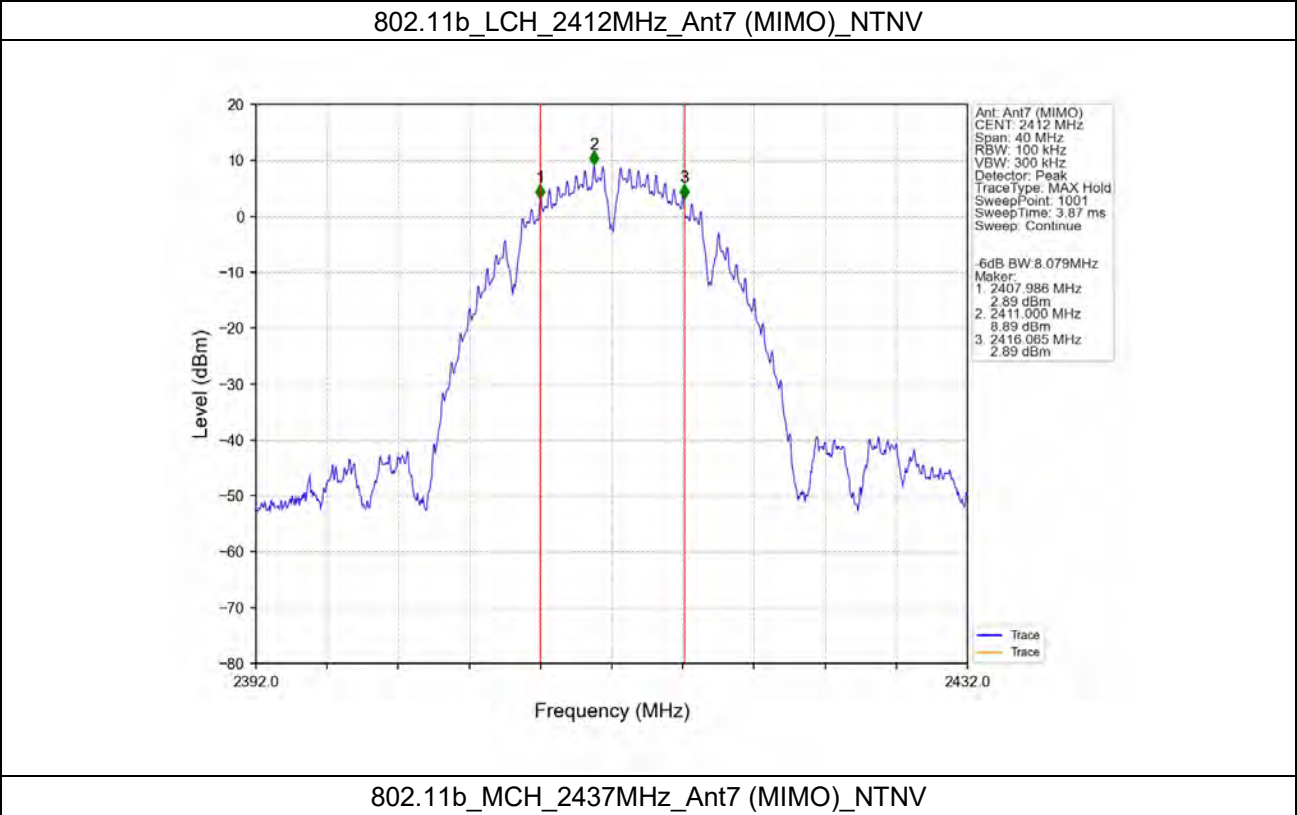
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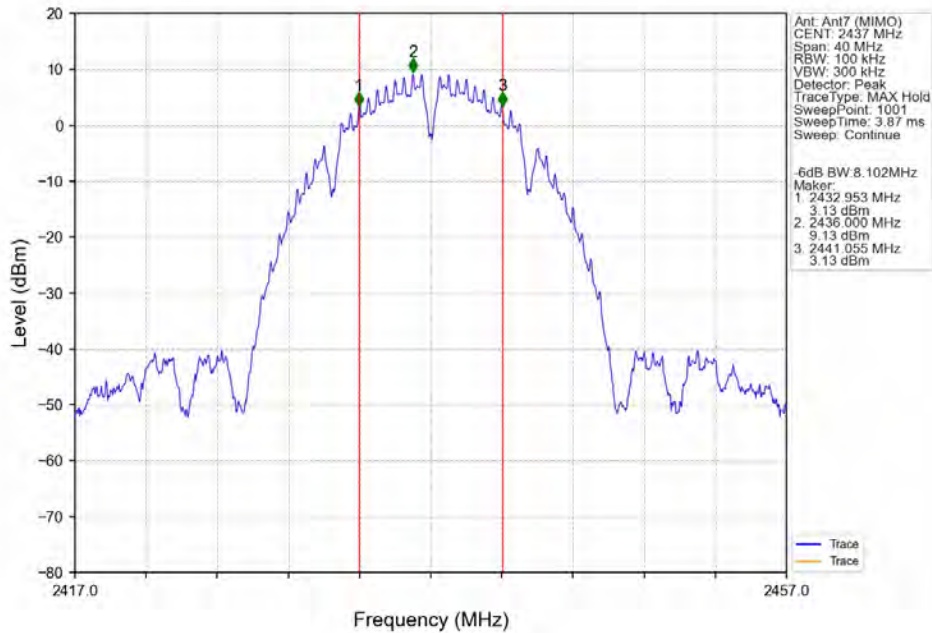


802.11ac(VHT40)_HCH_2452MHz_Ant7 (MIMO)_NTNV



2.2.2 6dB BW

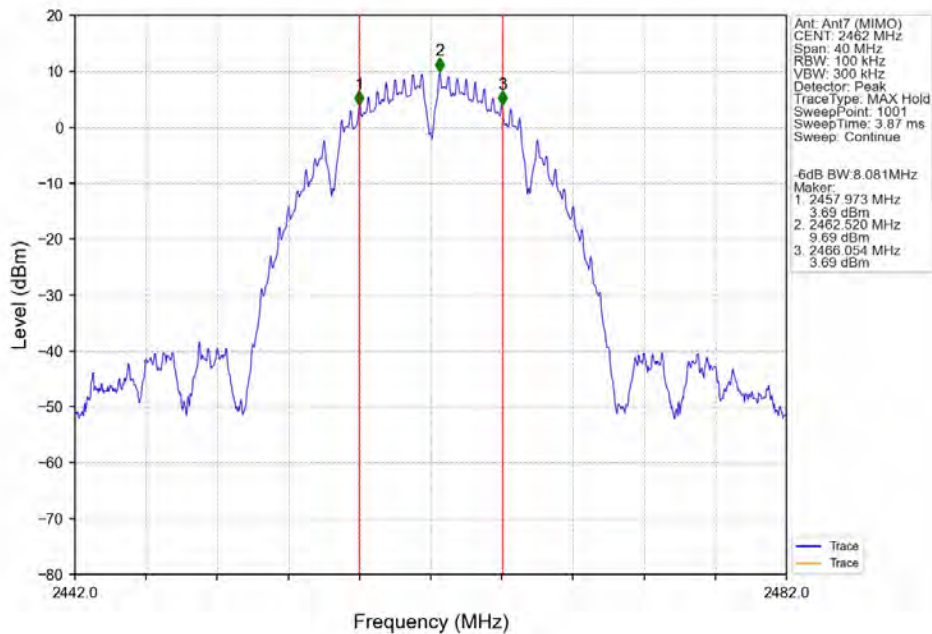




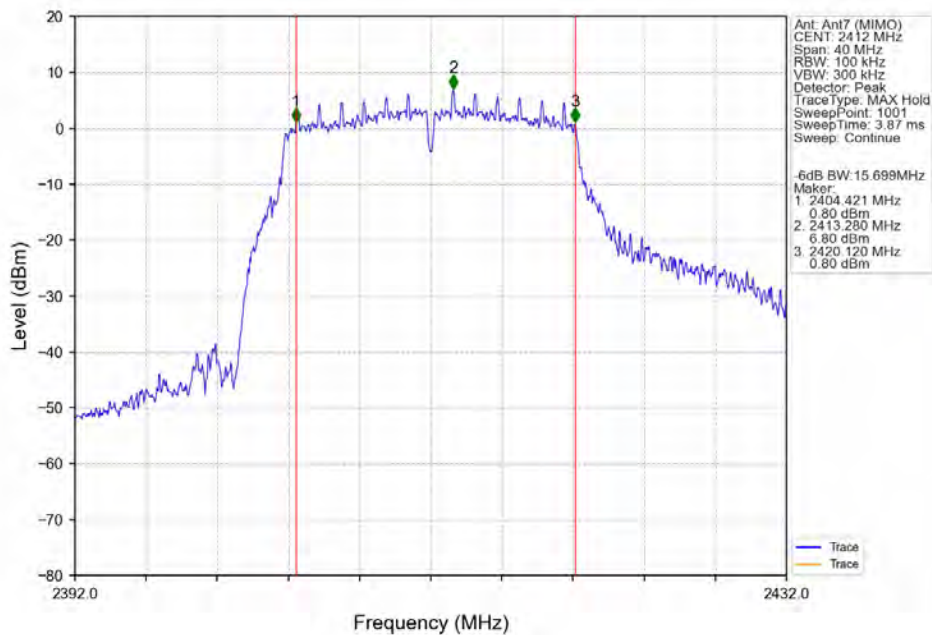
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802.11b_HCH_2462MHz_Ant7 (MIMO)_NTNV



802.11g_LCH_2412MHz_Ant7 (MIMO)_NTNV



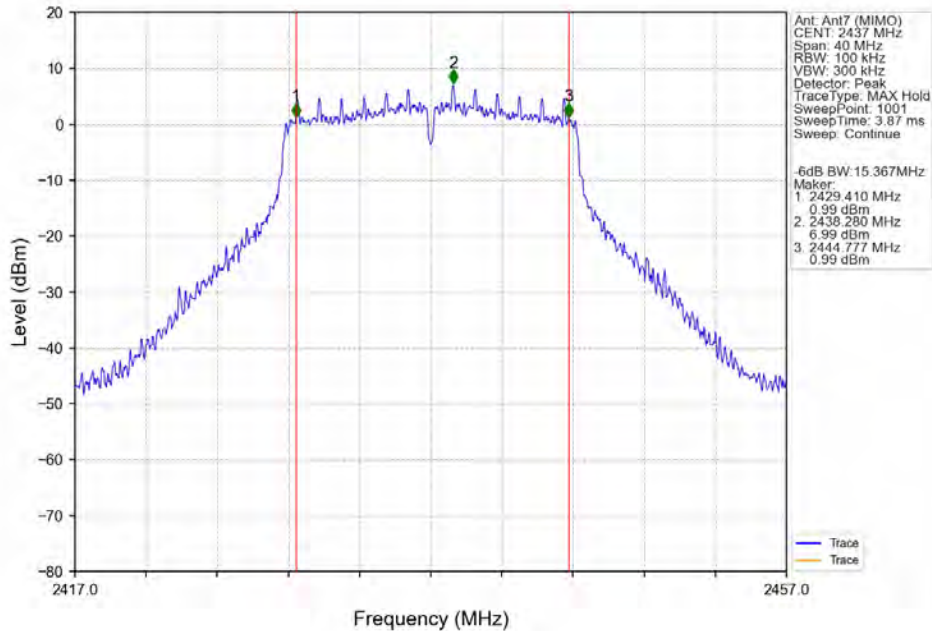
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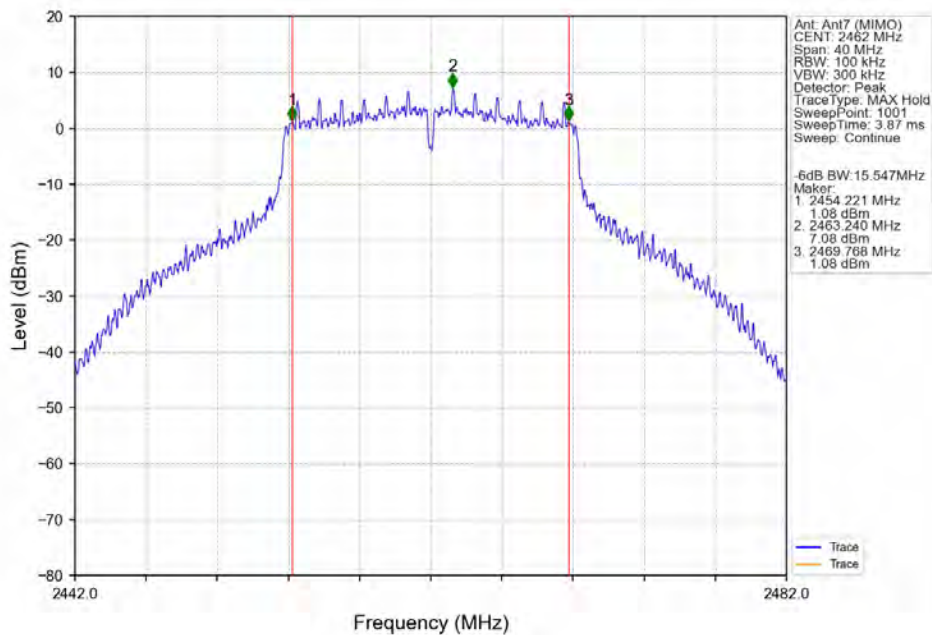
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802.11g_MCH_2437MHz_Ant7 (MIMO)_NTNV



802.11g_HCH_2462MHz_Ant7 (MIMO)_NTNV



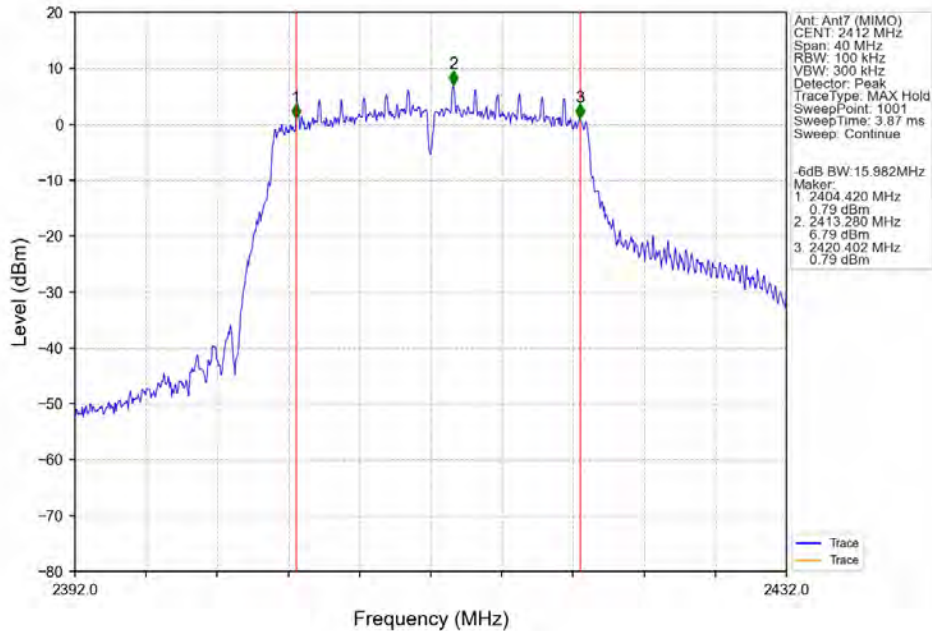
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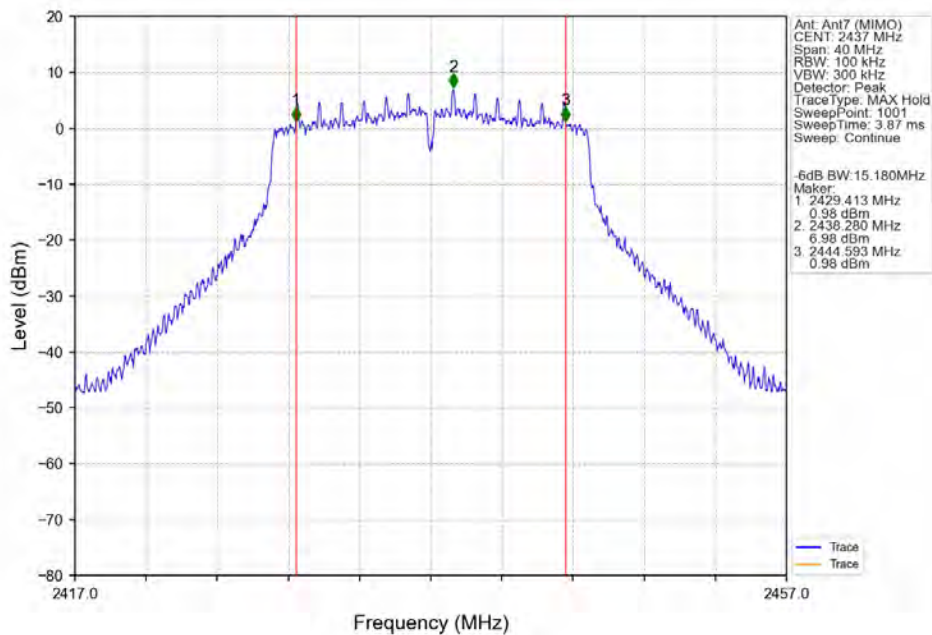
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802.11n(HT20)_LCH_2412MHz_Ant7 (MIMO)_NTNV



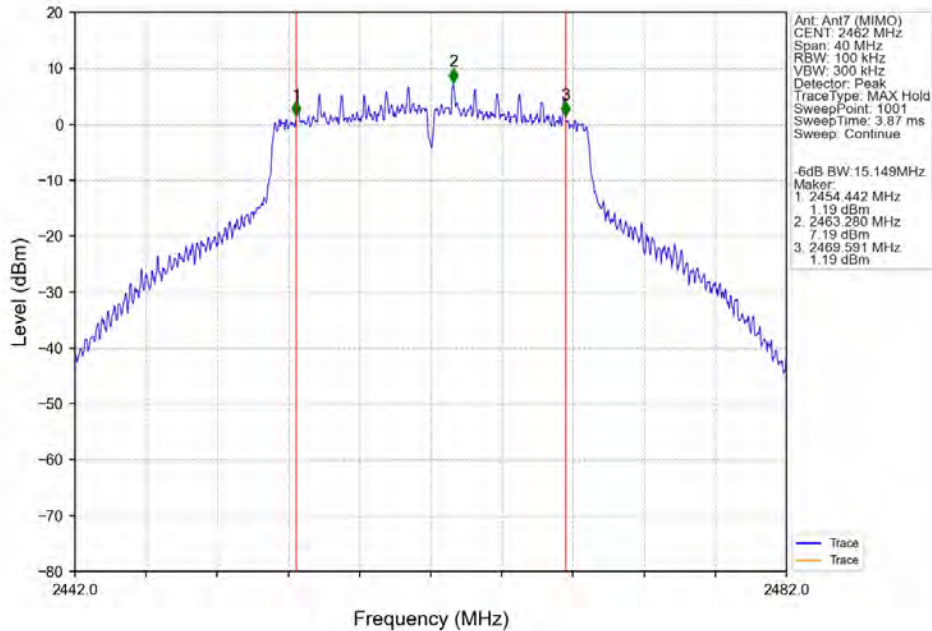
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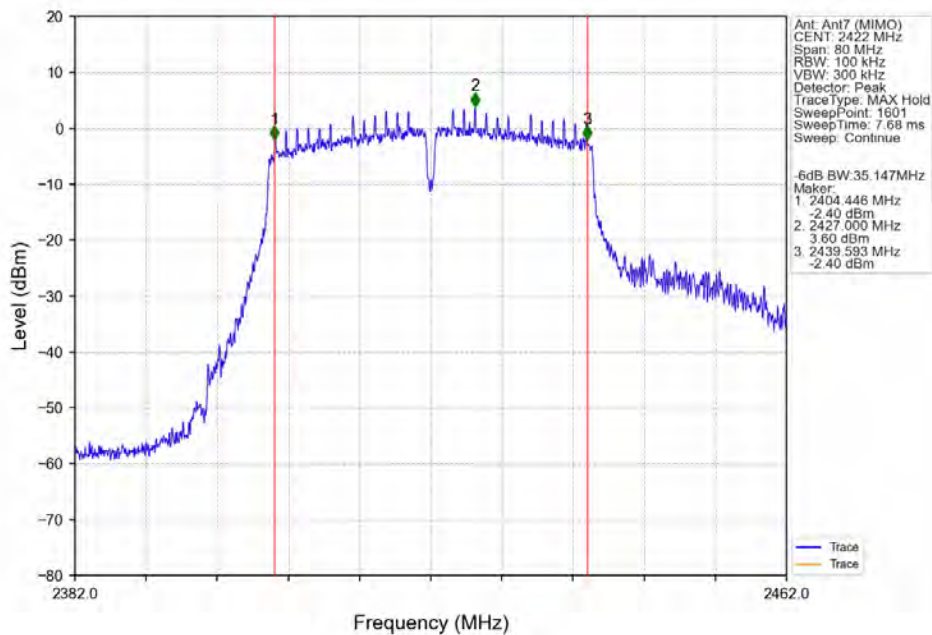
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802.11n(HT20)_HCH_2462MHz_Ant7 (MIMO)_NTNV



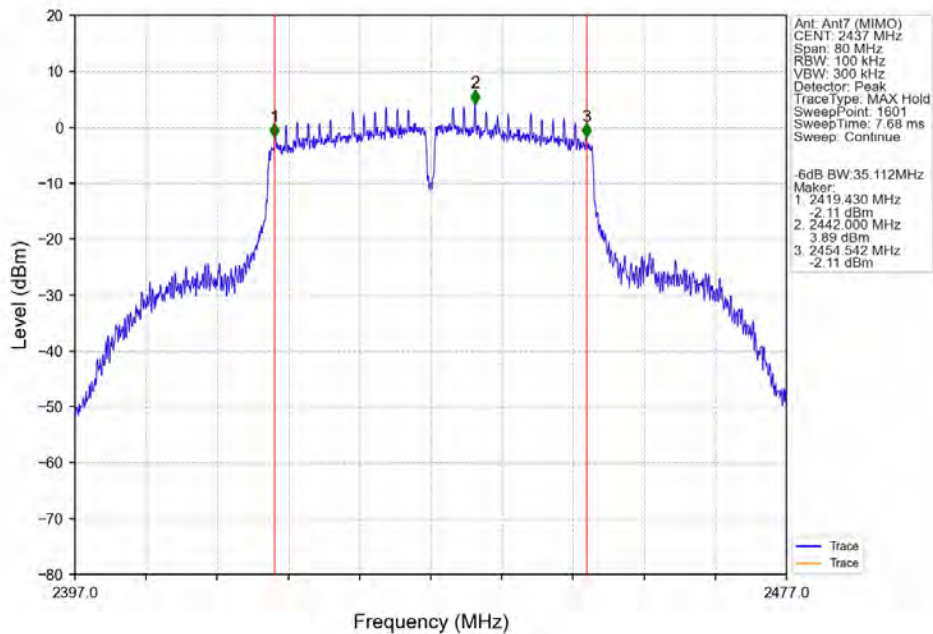
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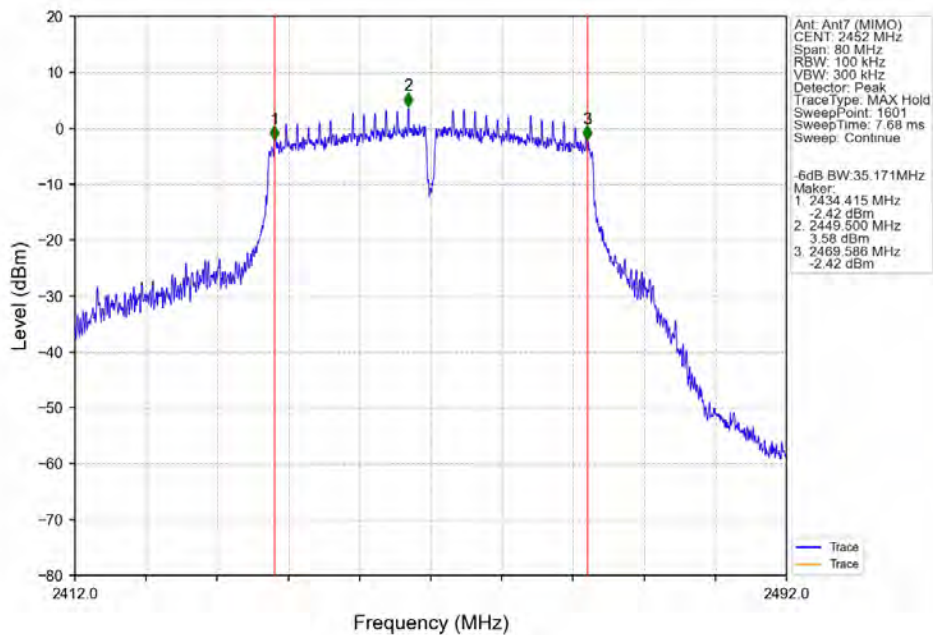
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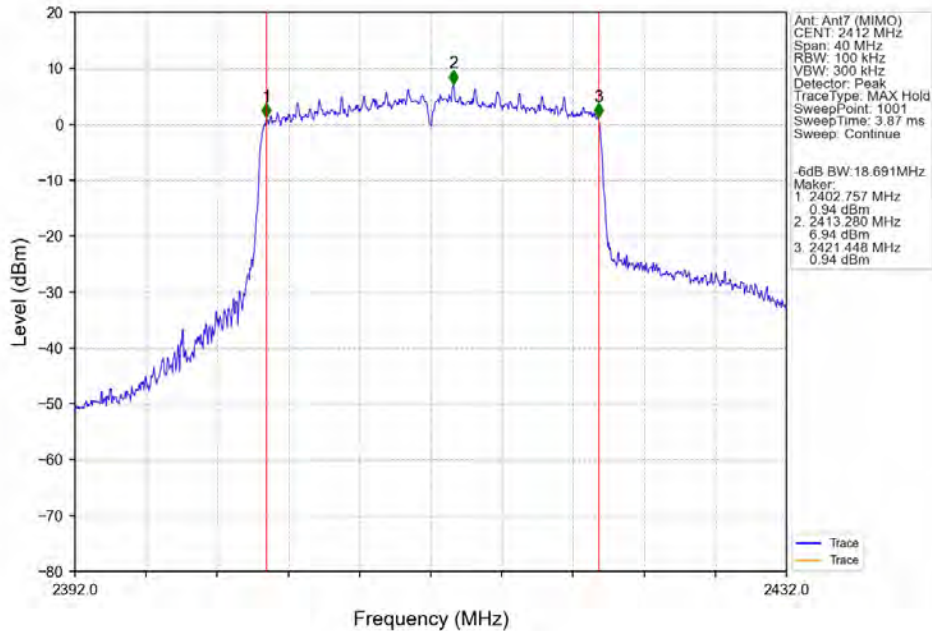
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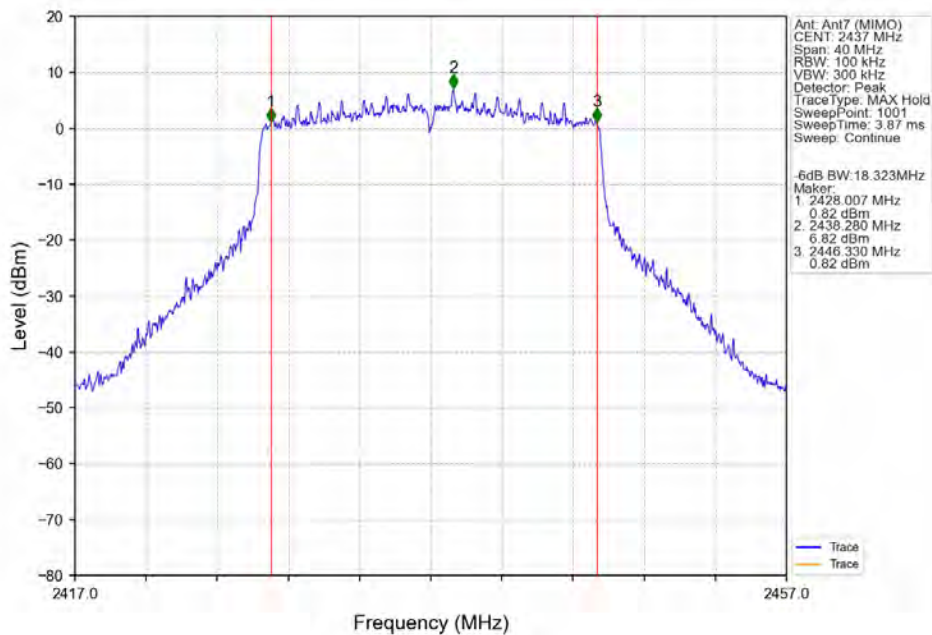
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant7 (MIMO)_NTNV



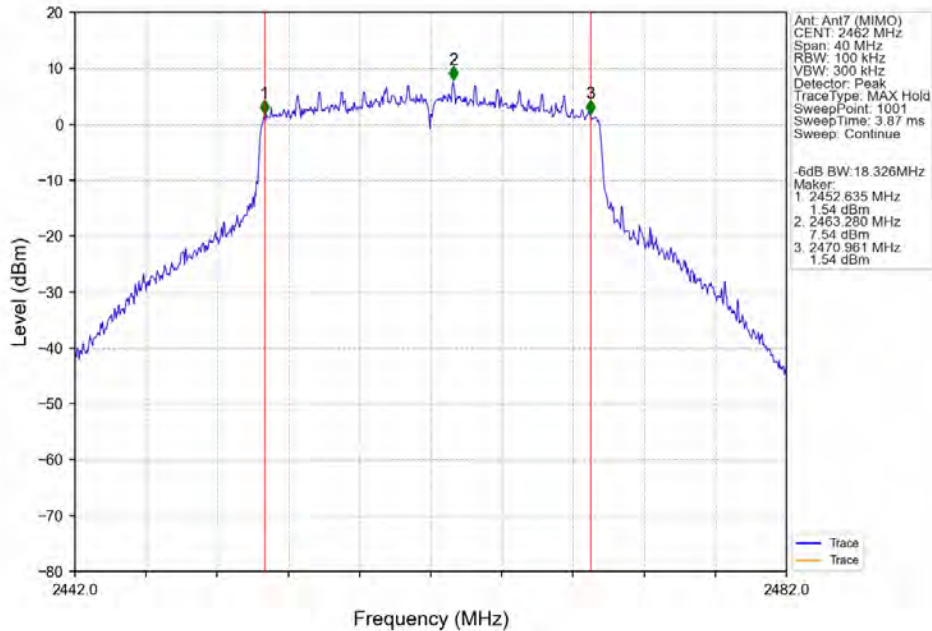
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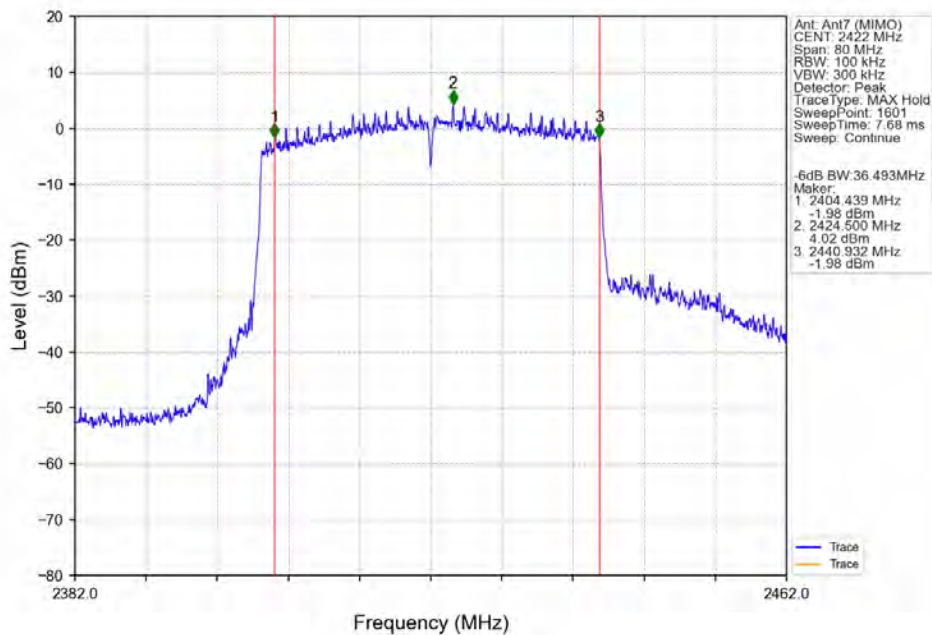
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant7 (MIMO)_NTNV



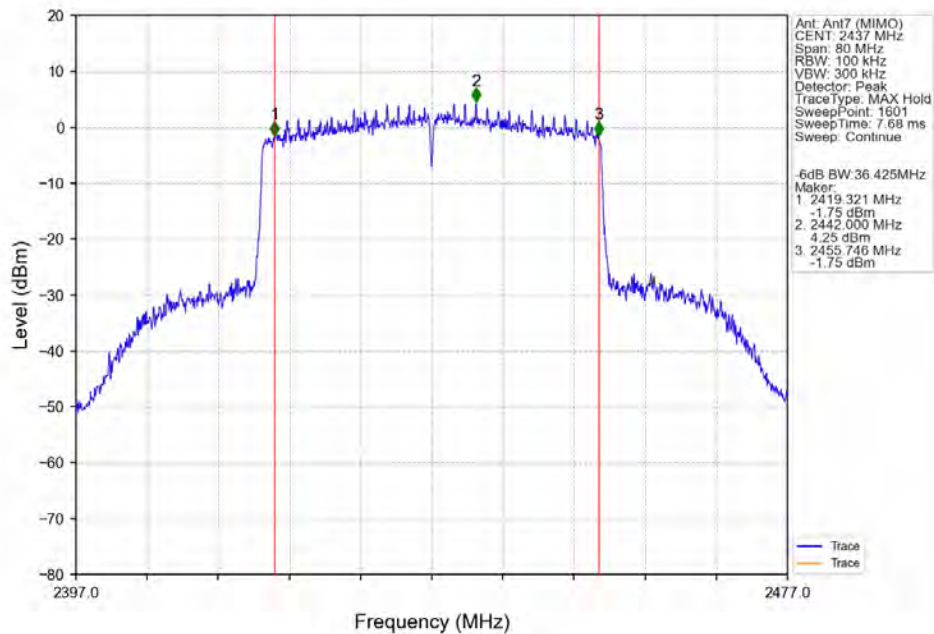
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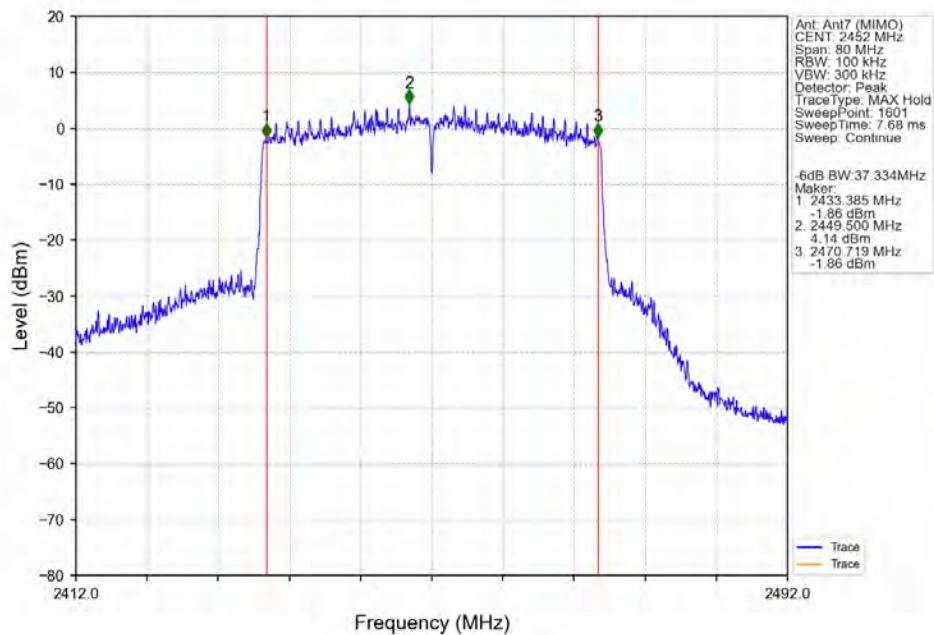
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802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant7 (MIMO)_NTNV



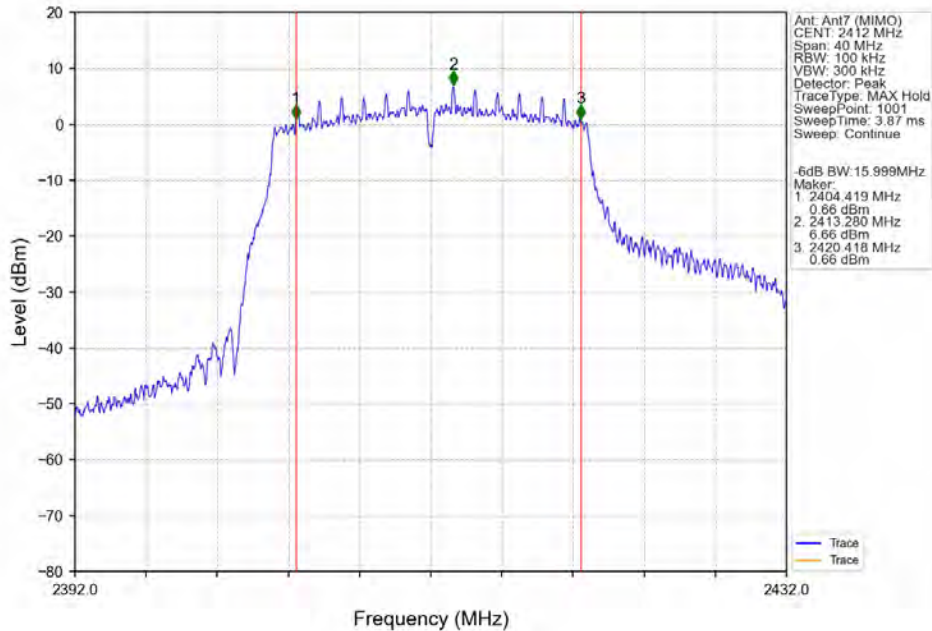
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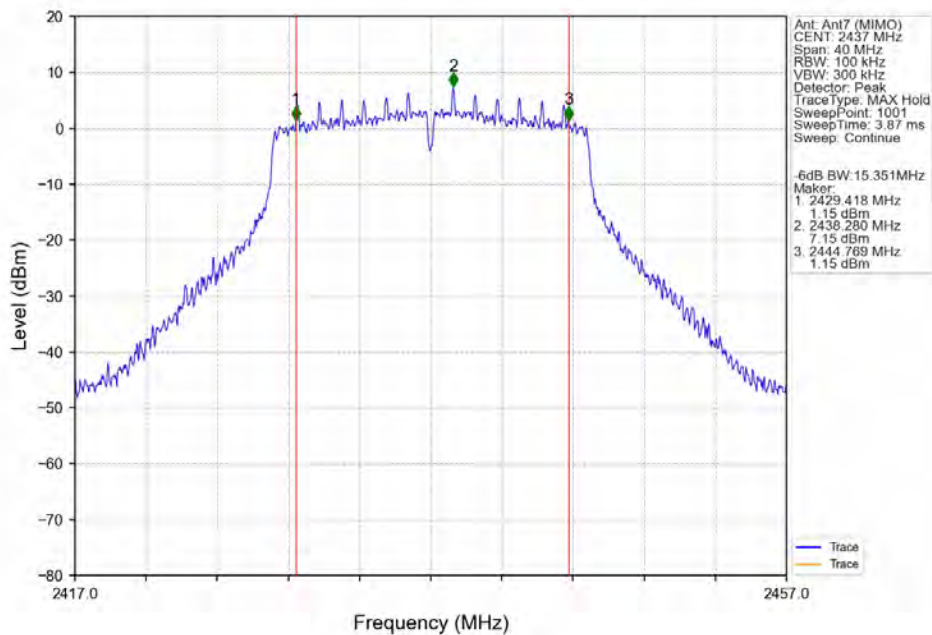
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802.11ac(VHT20)_LCH_2412MHz_Ant7 (MIMO)_NTNV



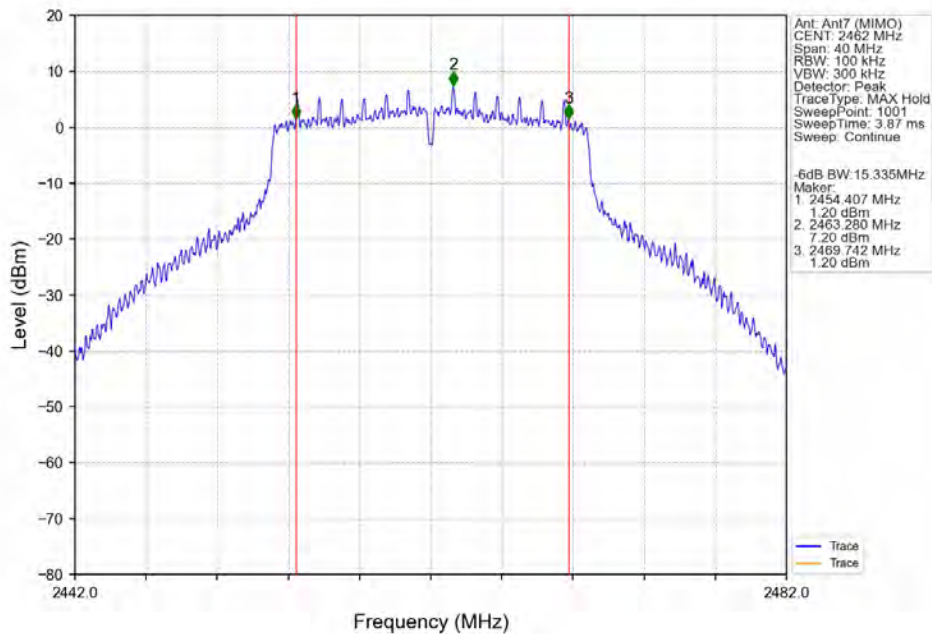
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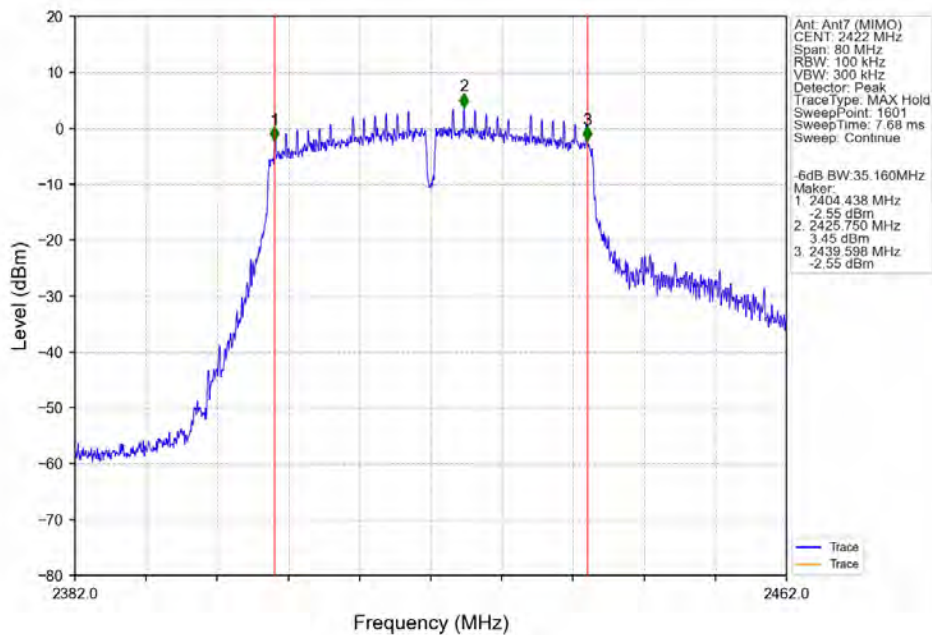
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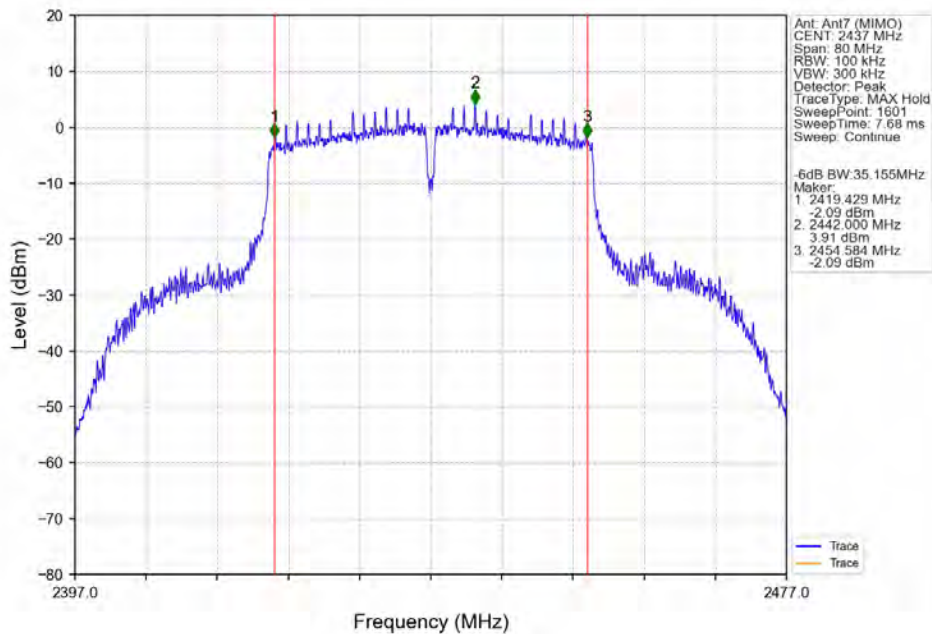
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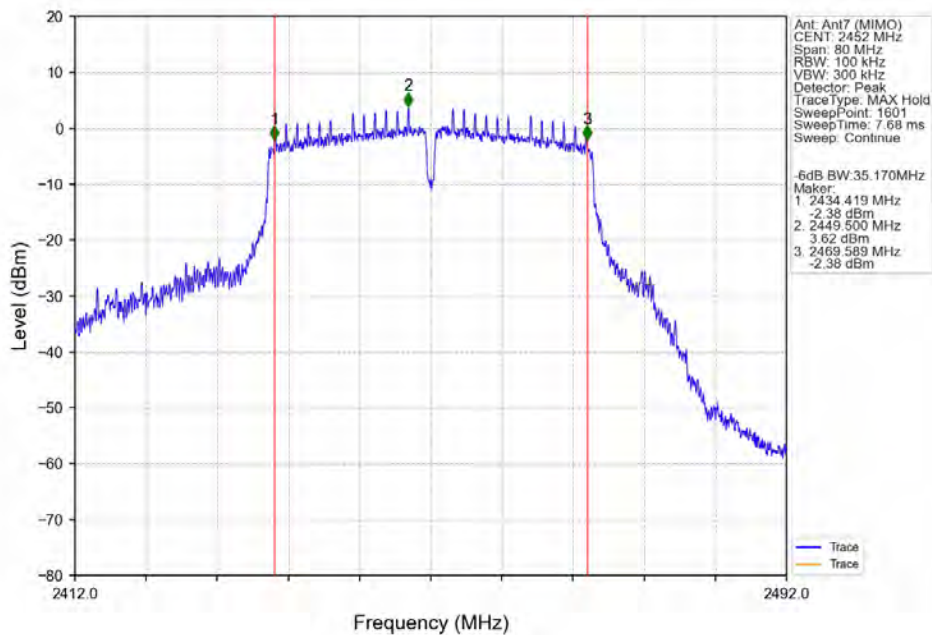
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802.11ac(VHT40)_MCH_2437MHz_Ant7 (MIMO)_NTNV



802.11ac(VHT40)_HCH_2452MHz_Ant7 (MIMO)_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)				Verdict
					ANT7	ANT12	MIMO	Limit	
802.11b	MIMO	2412	/	/	19.35	19.36	22.37	<=30	Pass
		2437	/	/	19.87	19.85	22.87	<=30	Pass
		2462	/	/	19.82	19.30	22.58	<=30	Pass
802.11g	MIMO	2412	/	/	24.39	24.51	27.46	<=30	Pass
		2437	/	/	24.47	24.96	27.73	<=30	Pass
		2462	/	/	24.69	24.44	27.58	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	24.14	24.92	27.56	<=30	Pass
		2437	/	/	24.29	24.90	27.62	<=30	Pass
		2462	/	/	24.32	24.17	27.26	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	24.46	24.71	27.60	<=30	Pass
		2437	/	/	24.81	25.39	28.12	<=30	Pass
		2452	/	/	24.81	24.76	27.80	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU26	Left	19.07	19.43	22.26	<=30	Pass
			RU52	Left	21.80	21.77	24.80	<=30	Pass
			RU106	Left	24.55	24.86	27.72	<=30	Pass
			RU242	Left	25.76	26.32	29.06	<=30	Pass
		2437	RU26	Mid	19.90	19.90	22.91	<=30	Pass
			RU52	Mid	22.08	22.27	25.19	<=30	Pass
			RU106	Left	24.59	25.28	27.96	<=30	Pass
			RU242	Left	25.68	26.01	28.86	<=30	Pass
		2462	RU26	Right	19.12	19.11	22.13	<=30	Pass
			RU52	Right	22.07	22.20	25.15	<=30	Pass
			RU106	Right	24.99	24.50	27.76	<=30	Pass
			RU242	Left	25.36	25.66	28.52	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU242	Left	26.18	26.47	29.34	<=30	Pass
			RU484	Left	25.55	25.84	28.71	<=30	Pass
		2437	RU242	Left	26.15	27.05	29.63	<=30	Pass
			RU484	Left	26.04	26.48	29.28	<=30	Pass
		2452	RU242	Right	26.52	26.49	29.52	<=30	Pass
			RU484	Left	26.05	25.96	29.02	<=30	Pass

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802.11ac (VHT20)	MIMO	2412	/	/	24.13	24.78	27.48	<=30	Pass
		2437	/	/	24.13	25.11	27.66	<=30	Pass
		2462	/	/	24.22	24.07	27.16	<=30	Pass
802.11ac (VHT40)	MIMO	2422	/	/	24.38	25.02	27.72	<=30	Pass
		2437	/	/	24.80	25.73	28.30	<=30	Pass
		2452	/	/	24.67	25.17	27.94	<=30	Pass

Note1: Antenna Gain: Ant7: -0.10dBi; Ant12: -1.69dBi;
Note2: Directional Gain: -0.1dBi

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT7	ANT12	MIMO	Limit	
802.11b	MIMO	2412	/	/	-5.21	-5.23	-2.63	<=8	Pass
		2437	/	/	-4.79	-5.09	-2.77	<=8	Pass
		2462	/	/	-4.97	-4.14	-2.46	<=8	Pass
802.11g	MIMO	2412	/	/	-6.99	-8.74	-5.00	<=8	Pass
		2437	/	/	-7.62	-8.60	-5.40	<=8	Pass
		2462	/	/	-8.15	-8.12	-5.94	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-8.44	-8.87	-6.58	<=8	Pass
		2437	/	/	-8.23	-7.86	-6.21	<=8	Pass
		2462	/	/	-7.50	-9.18	-5.41	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-11.24	-11.30	-9.37	<=8	Pass
		2437	/	/	-10.34	-10.95	-8.46	<=8	Pass
		2452	/	/	-11.30	-10.40	-8.88	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU26	Left	-8.22	-7.80	-5.98	<=8	Pass
			RU52	Left	-8.70	-7.27	-5.95	<=8	Pass
			RU106	Left	-8.95	-7.62	-5.79	<=8	Pass
			RU242	Left	-9.03	-8.17	-6.33	<=8	Pass
		2437	RU26	Mid	-7.99	-7.70	-4.83	<=8	Pass
			RU52	Mid	-8.66	-8.55	-6.47	<=8	Pass
			RU106	Left	-8.45	-8.05	-5.57	<=8	Pass
			RU242	Left	-9.47	-8.80	-7.09	<=8	Pass
		2462	RU26	Right	-9.12	-8.23	-6.93	<=8	Pass
			RU52	Right	-8.37	-7.96	-5.73	<=8	Pass
			RU106	Right	-8.90	-7.87	-6.13	<=8	Pass
			RU242	Left	-9.52	-8.74	-7.26	<=8	Pass



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802.11ax (HEW40)	MIMO	2422	RU242	Left	-10.65	-10.17	-8.38	<=8	Pass
			RU484	Left	-10.69	-12.24	-9.70	<=8	Pass
		2437	RU242	Left	-9.12	-7.29	-6.36	<=8	Pass
			RU484	Left	-11.45	-11.87	-9.70	<=8	Pass
		2452	RU242	Right	-10.63	-9.88	-8.07	<=8	Pass
			RU484	Left	-9.89	-11.42	-8.70	<=8	Pass
802.11ac (VHT20)	MIMO	2412	/	/	-9.10	-8.58	-6.60	<=8	Pass
		2437	/	/	-7.25	-7.75	-4.92	<=8	Pass
		2462	/	/	-8.50	-9.10	-6.37	<=8	Pass
802.11ac (VHT40)	MIMO	2422	/	/	-12.06	-11.34	-9.14	<=8	Pass
		2437	/	/	-11.25	-10.29	-8.87	<=8	Pass
		2452	/	/	-10.66	-10.58	-8.06	<=8	Pass

Note1: Antenna Gain: Ant7: -0.10dBi; Ant12: -1.69dBi;

Note2: Directional Gain: -0.1dBi



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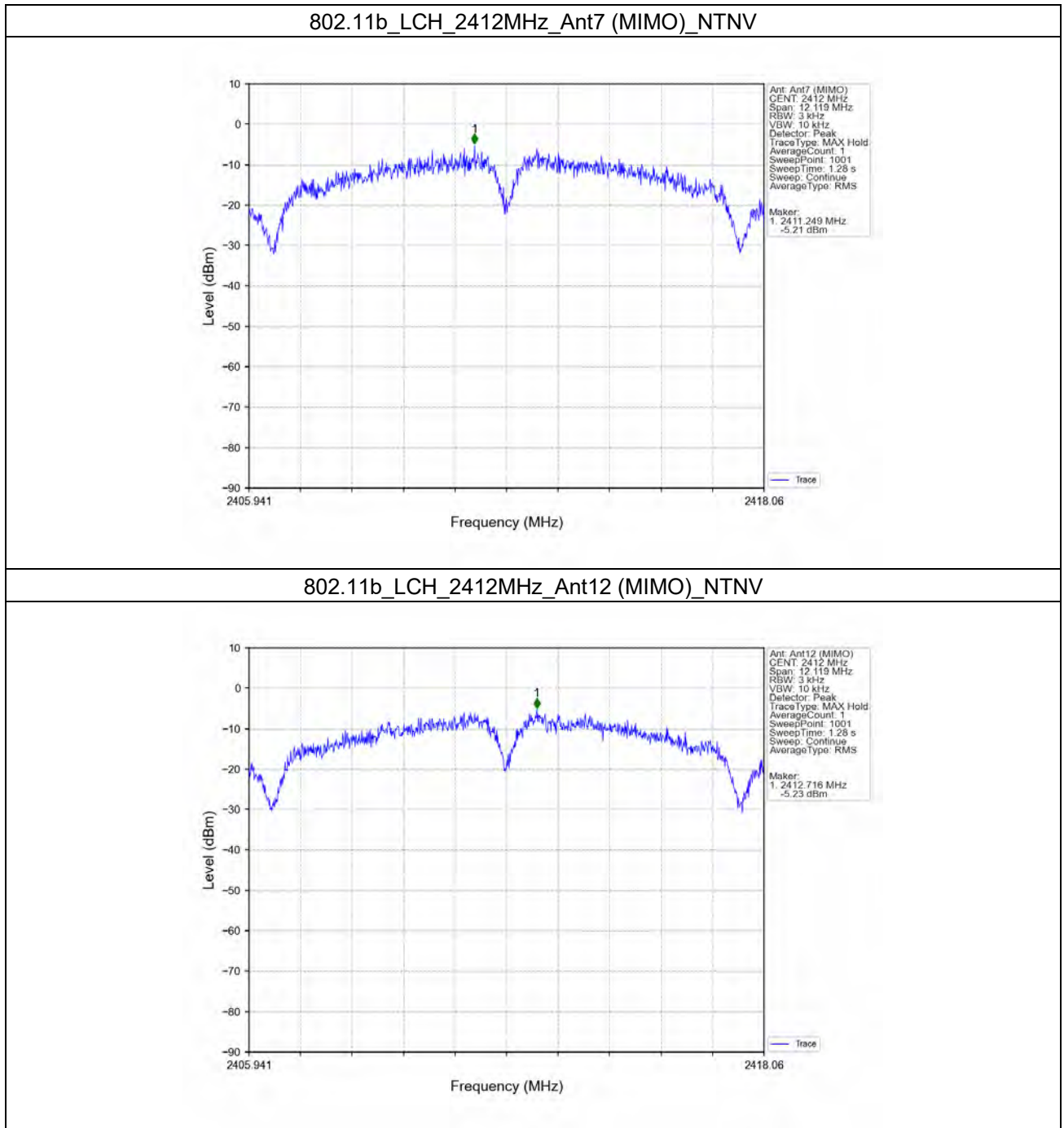
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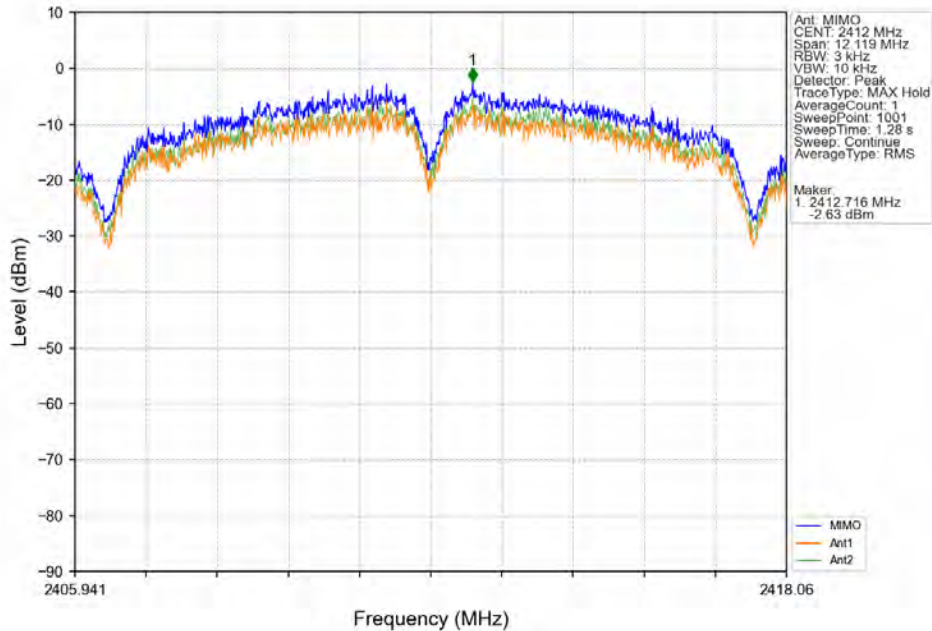
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4.2 Test Graph

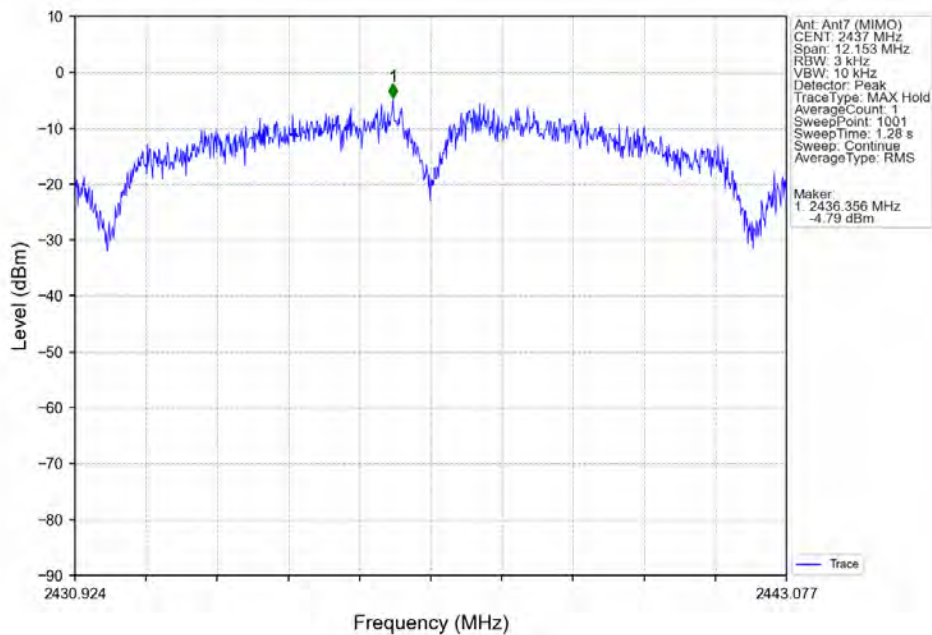
4.2.1 PSD



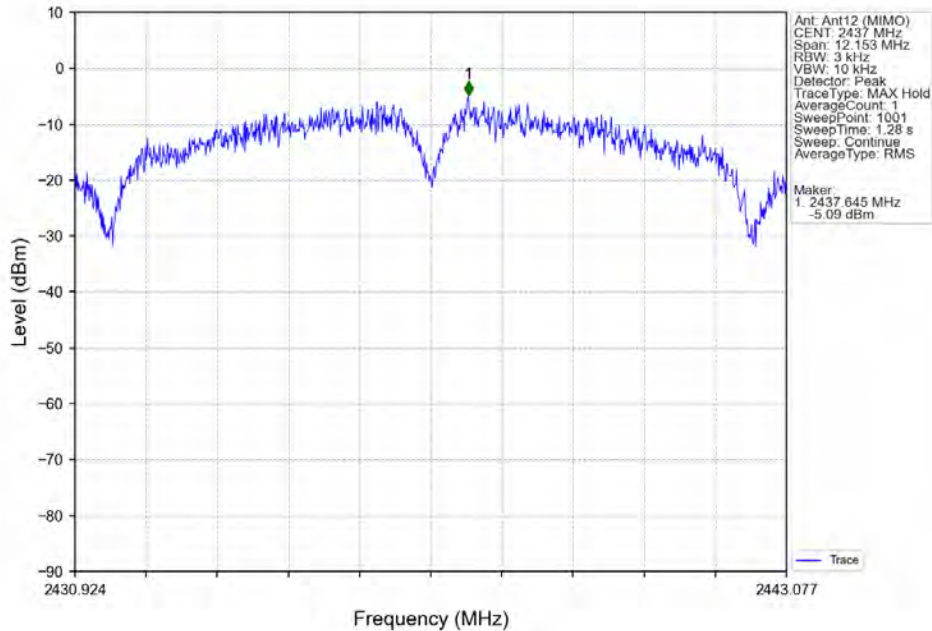
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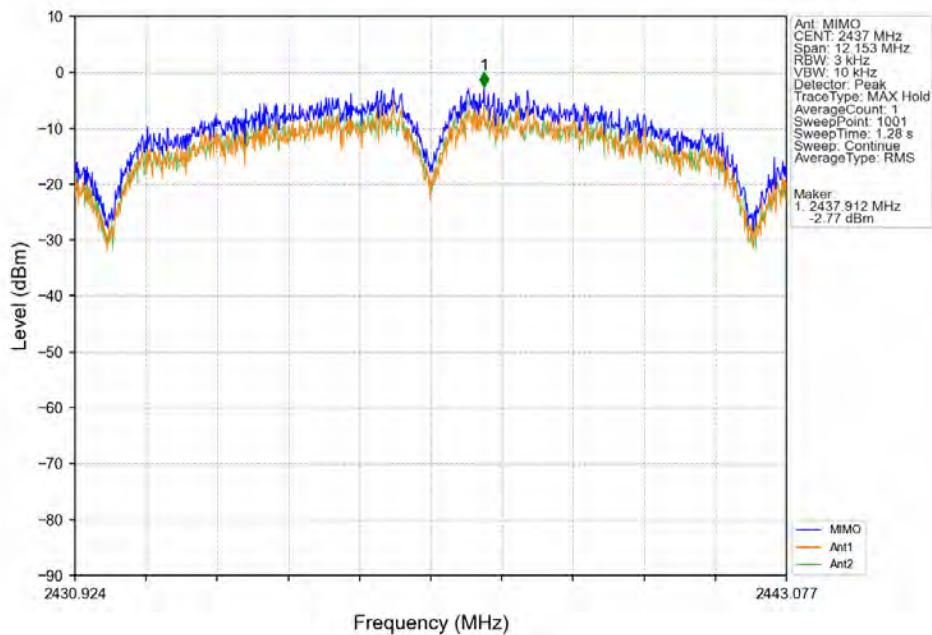
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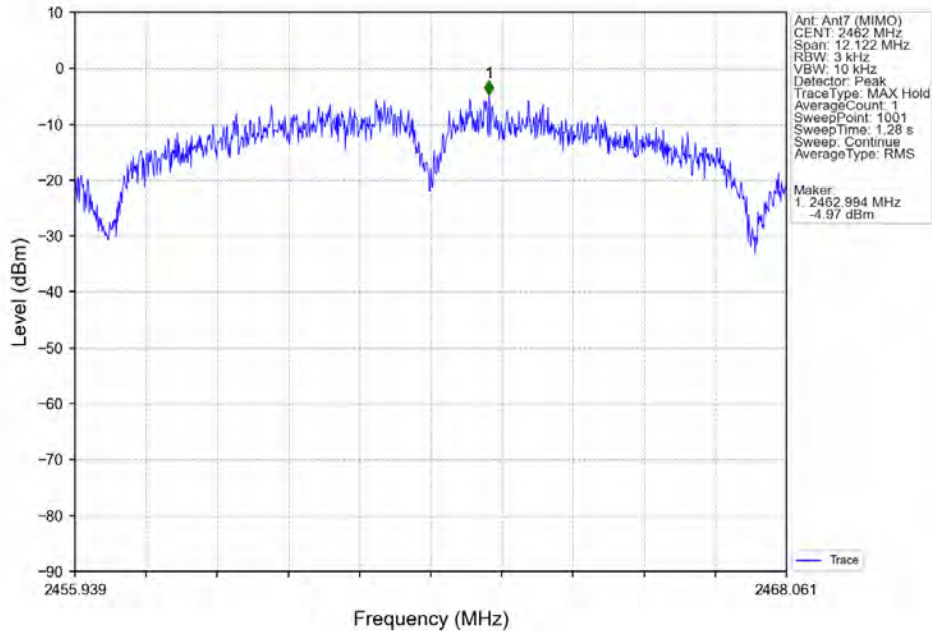
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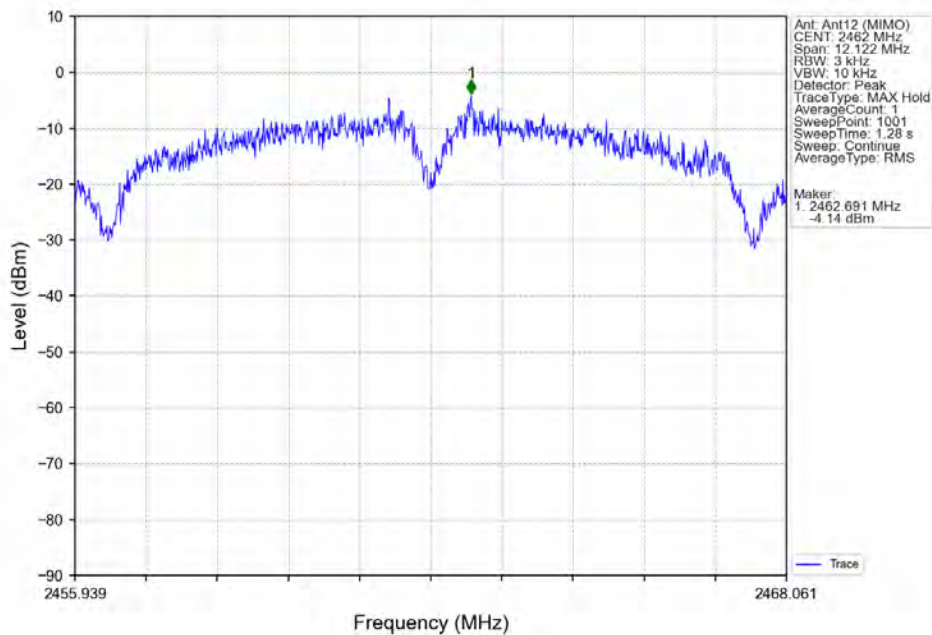
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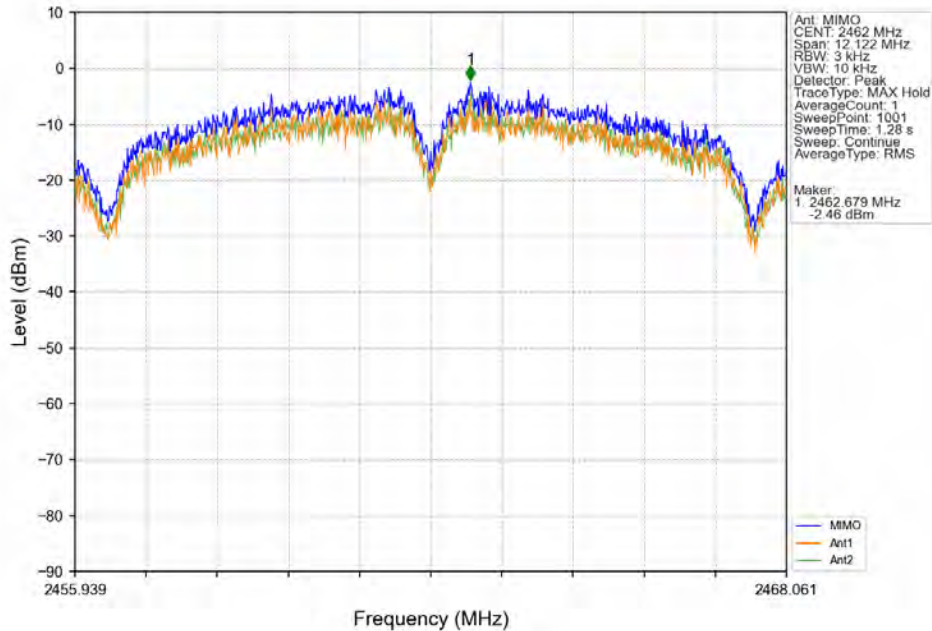
802.11b_HCH_2462MHz_Ant7 (MIMO)_NTNV



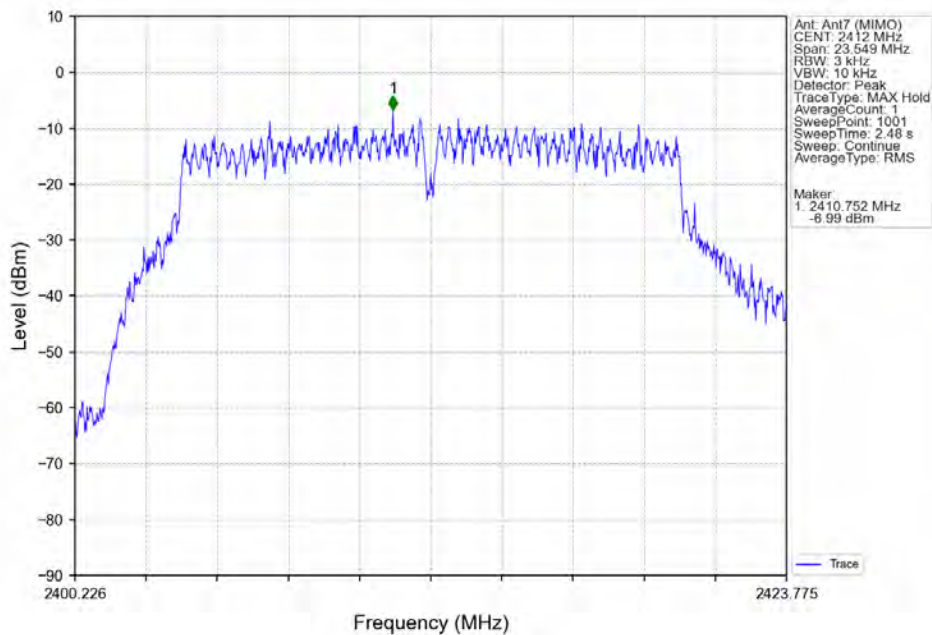
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802.11b_HCH_2462MHz_MIMO_NTNV



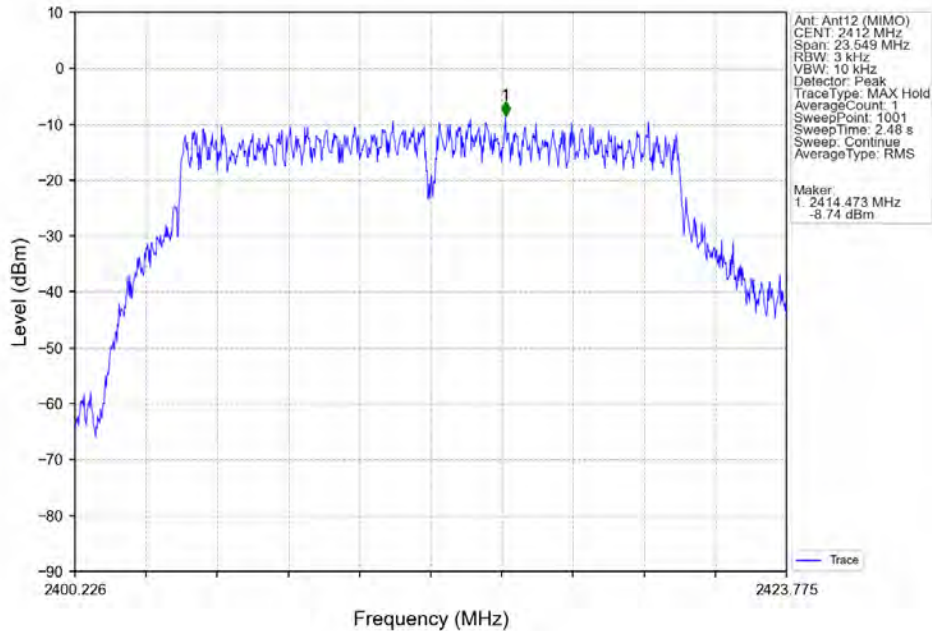
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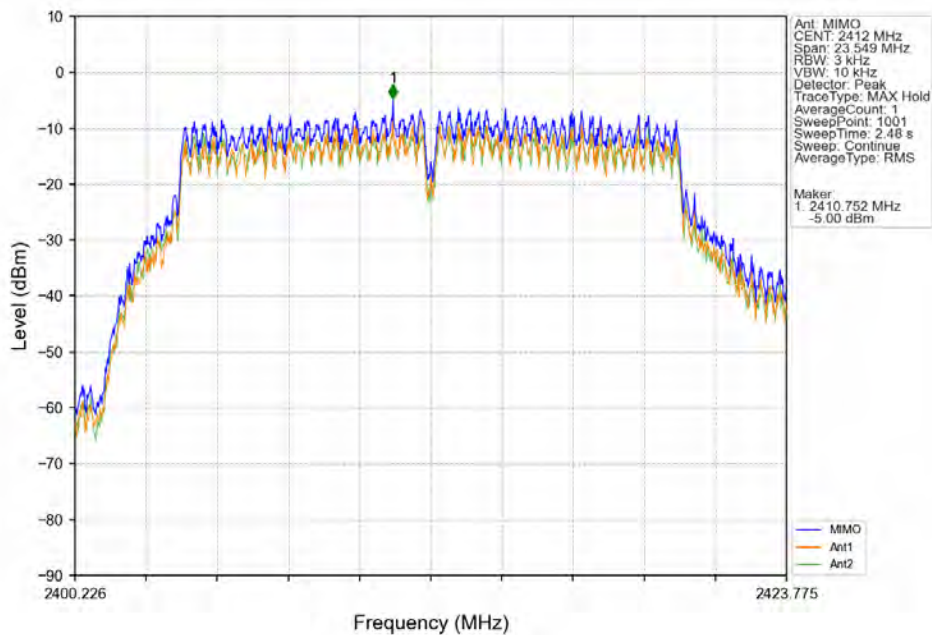
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802.11g_LCH_2412MHz_Ant12 (MIMO)_NTNV



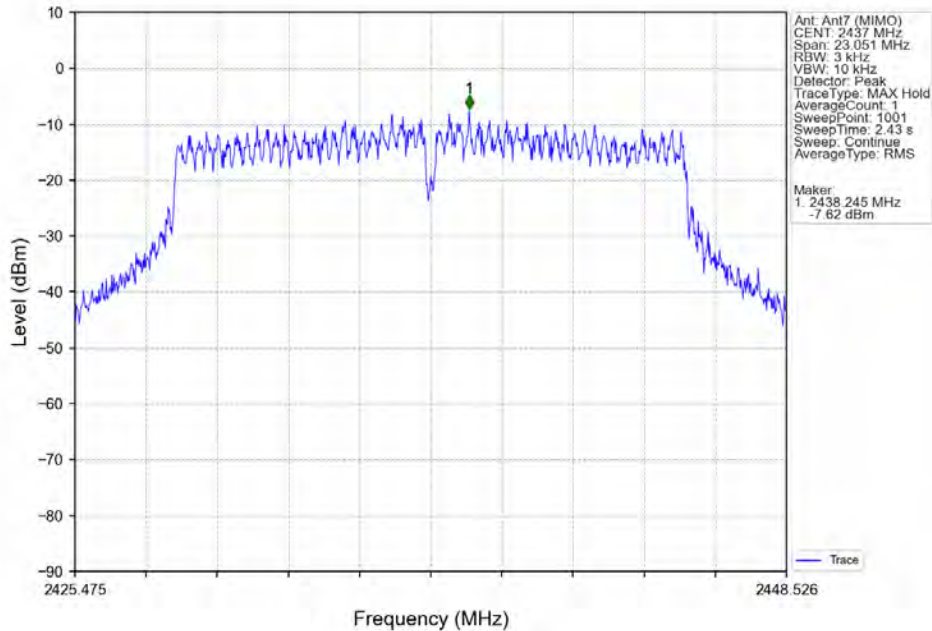
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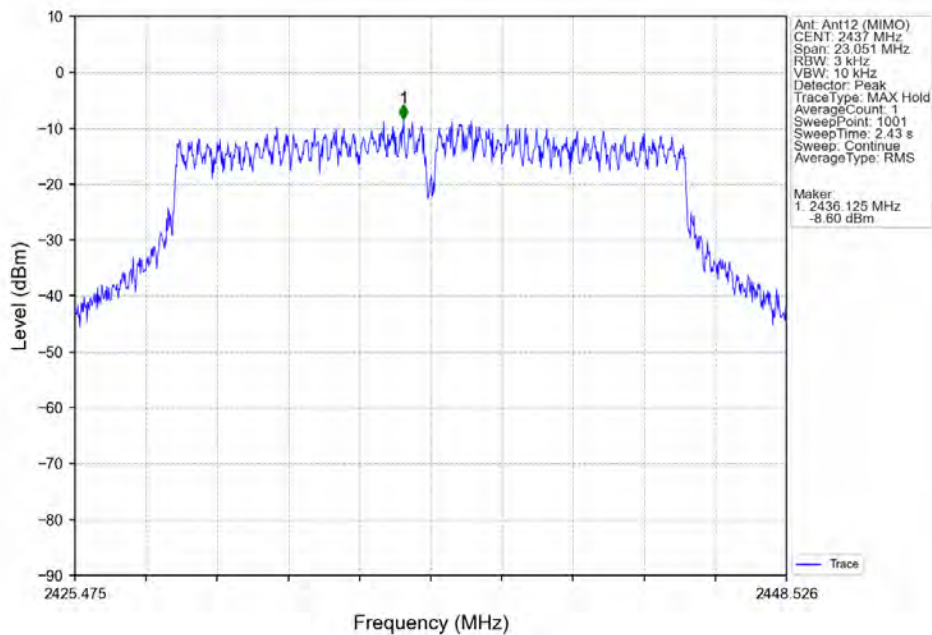
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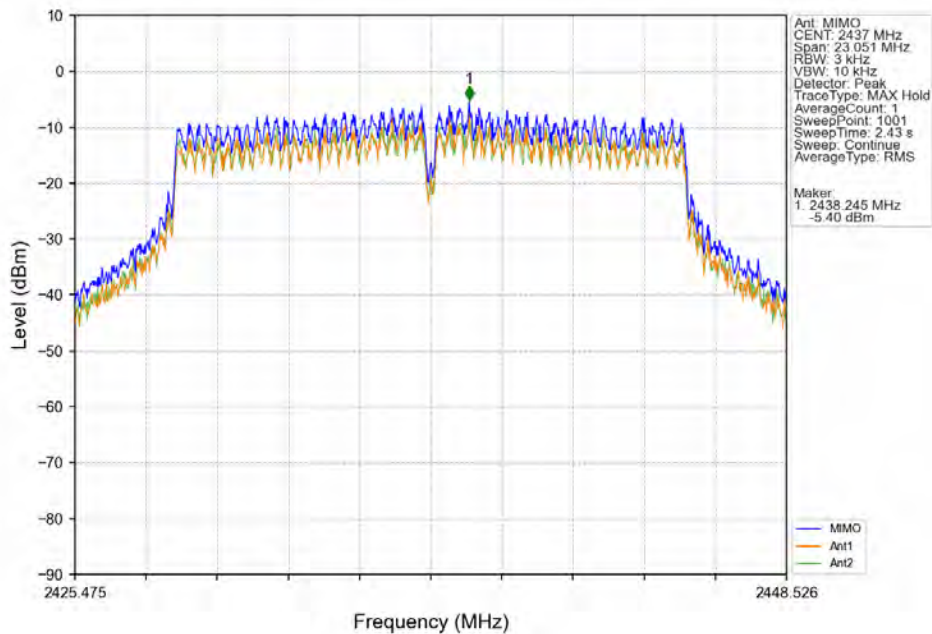
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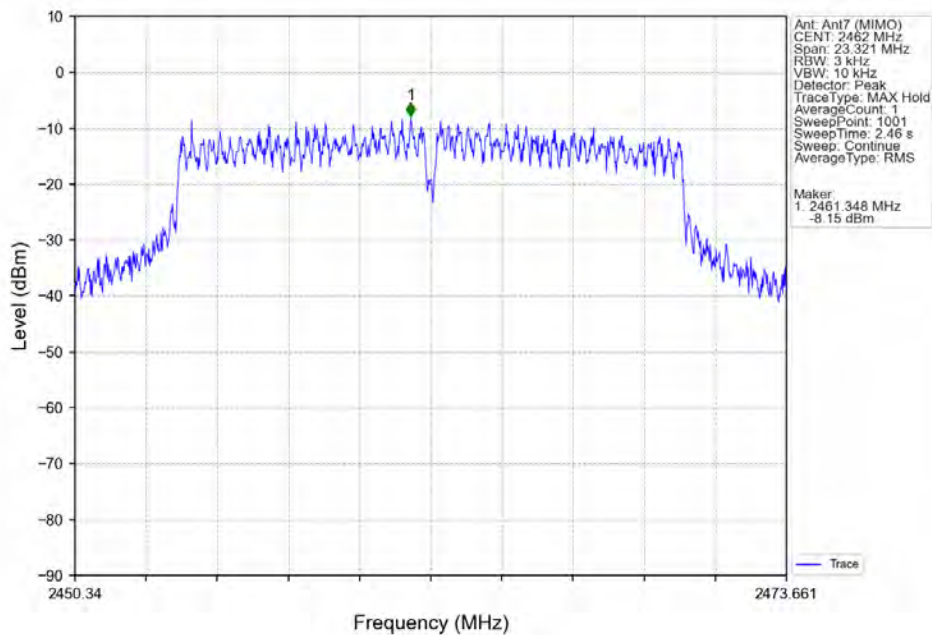
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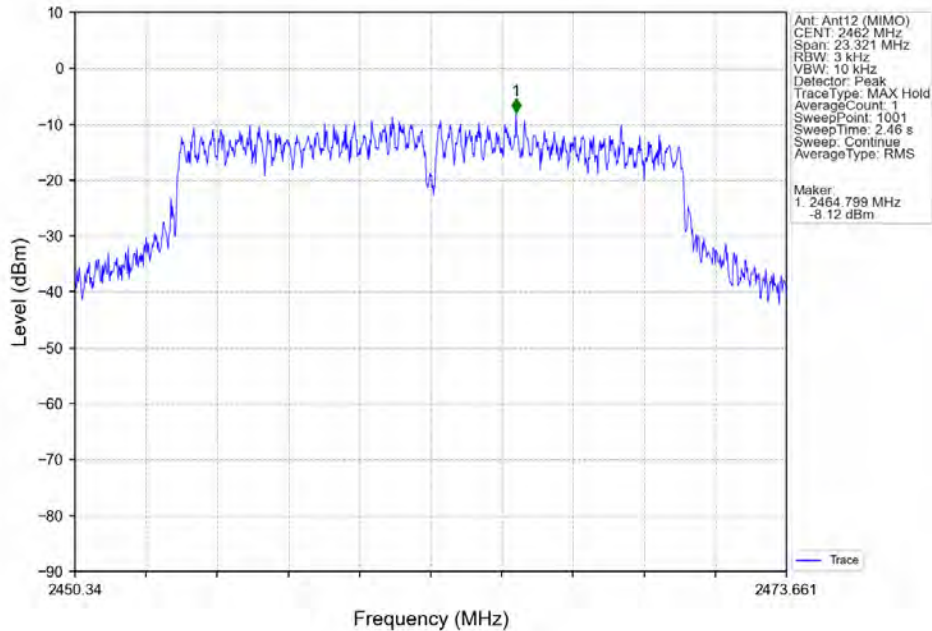
802.11g_MCH_2437MHz_MIMO_NTNV



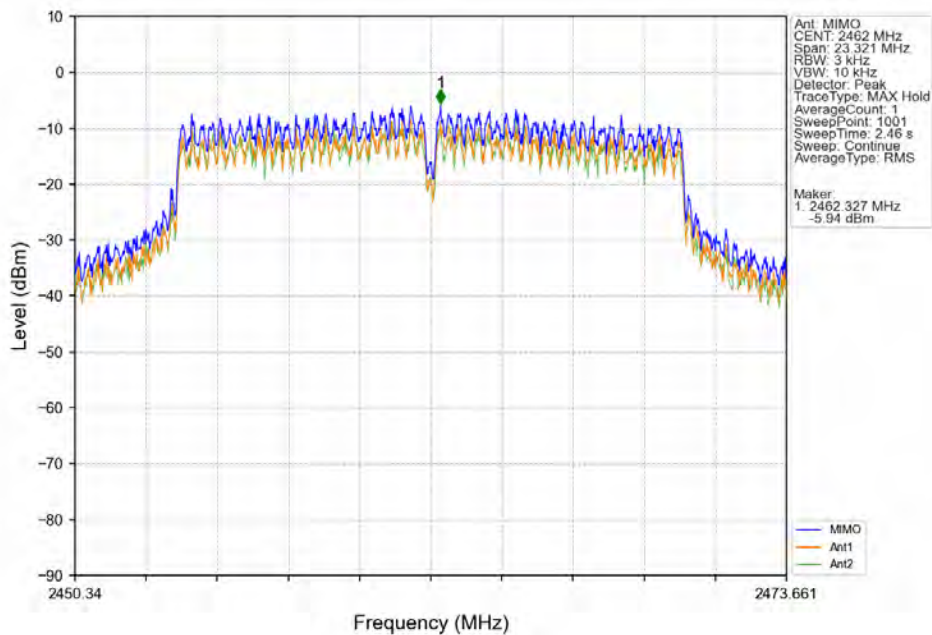
802.11g_HCH_2462MHz_Ant7 (MIMO)_NTNV



802.11g_HCH_2462MHz_Ant12 (MIMO)_NTNV



802.11g_HCH_2462MHz_MIMO_NTNV



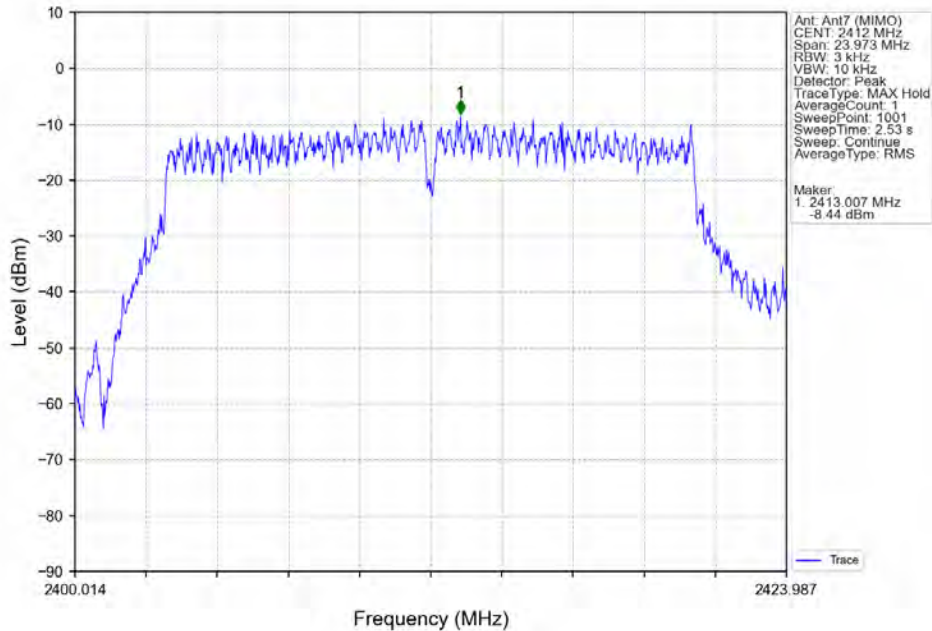
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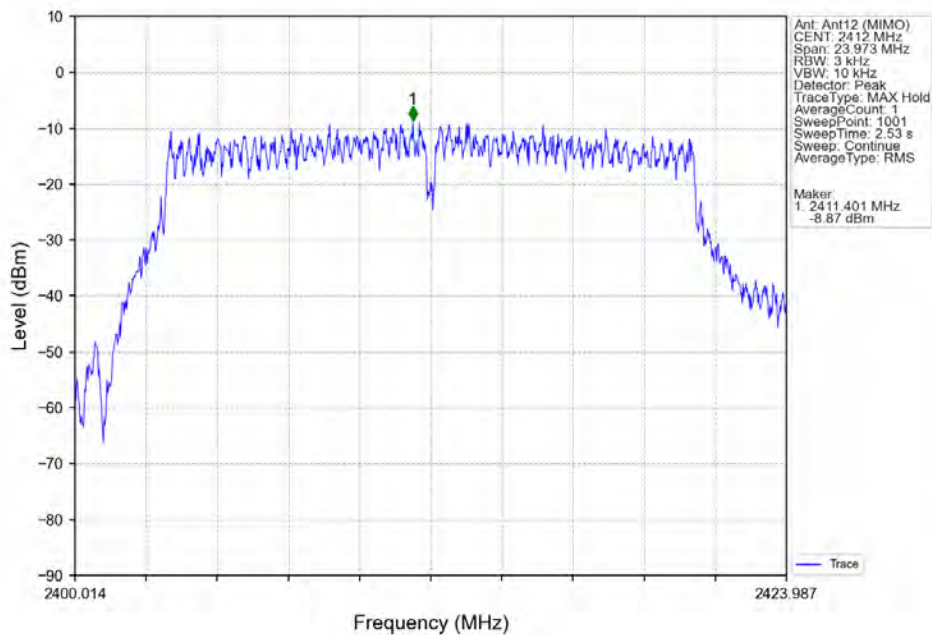
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802.11n(HT20)_LCH_2412MHz_Ant7 (MIMO)_NTNV



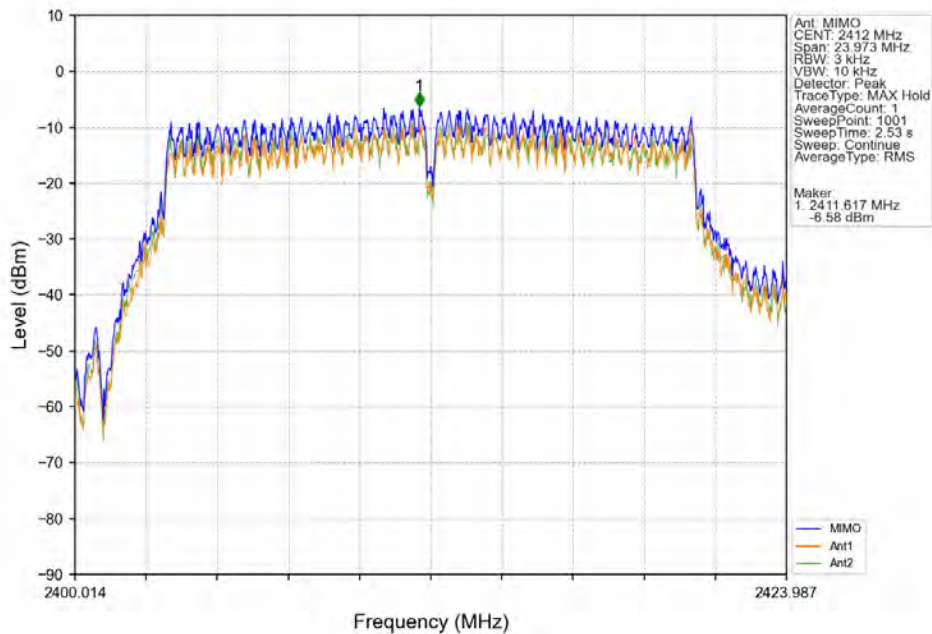
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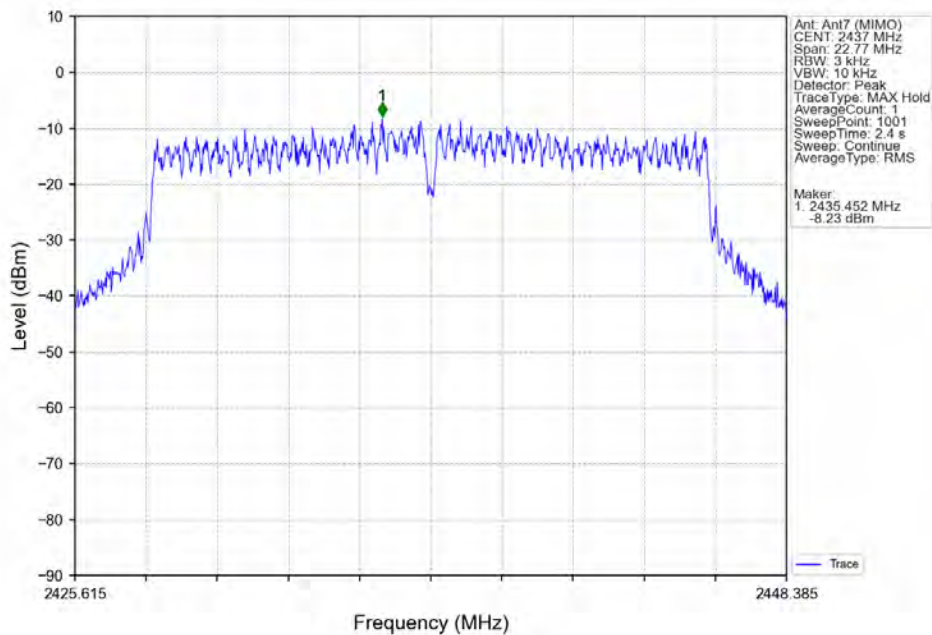
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



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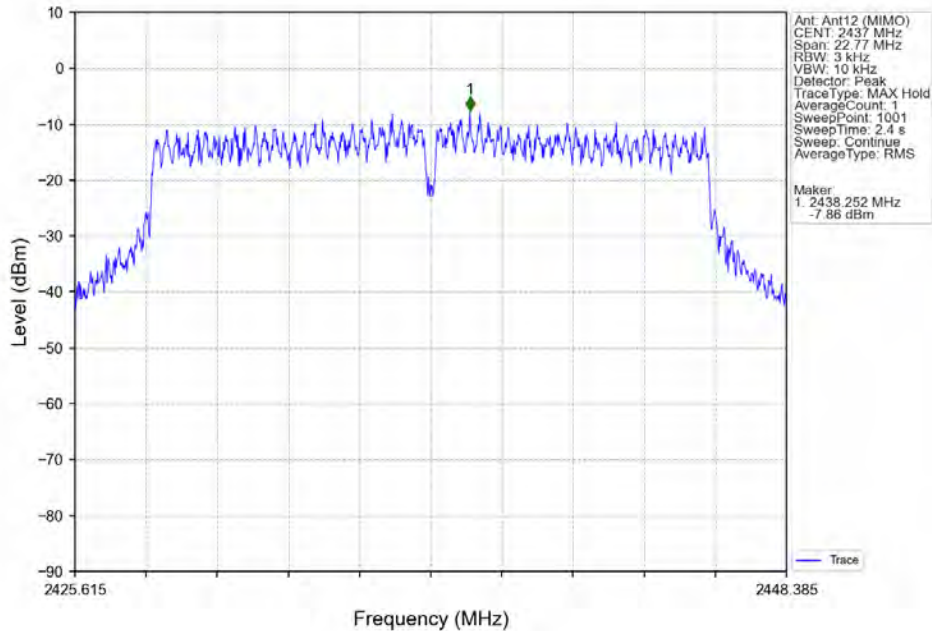
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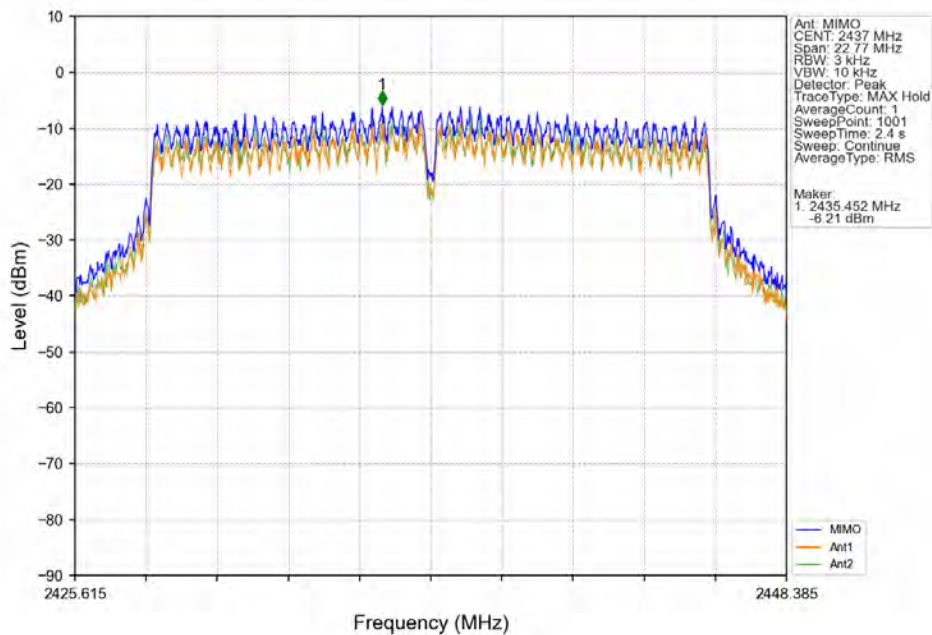
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802.11n(HT20)_MCH_2437MHz_Ant12 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



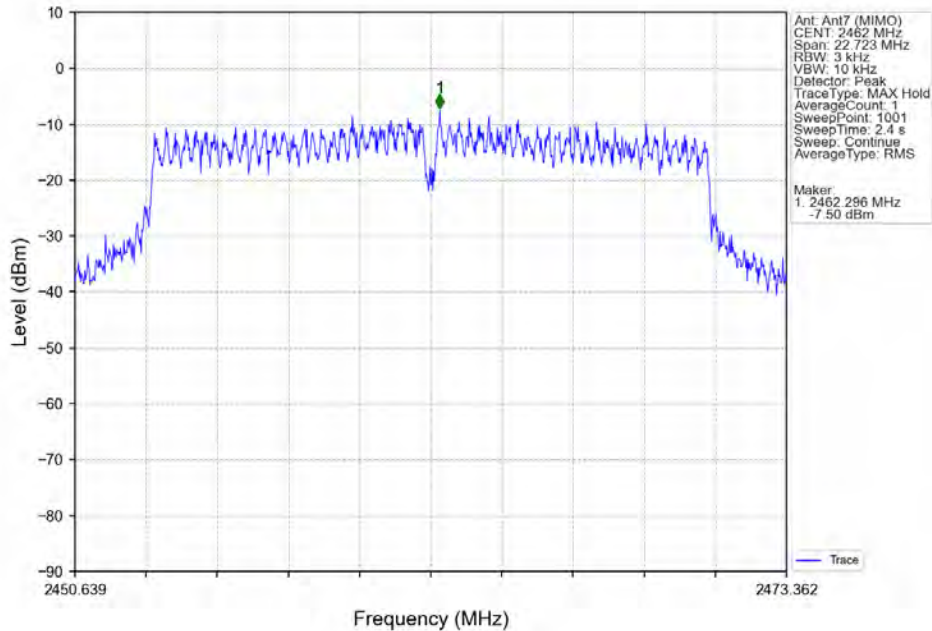
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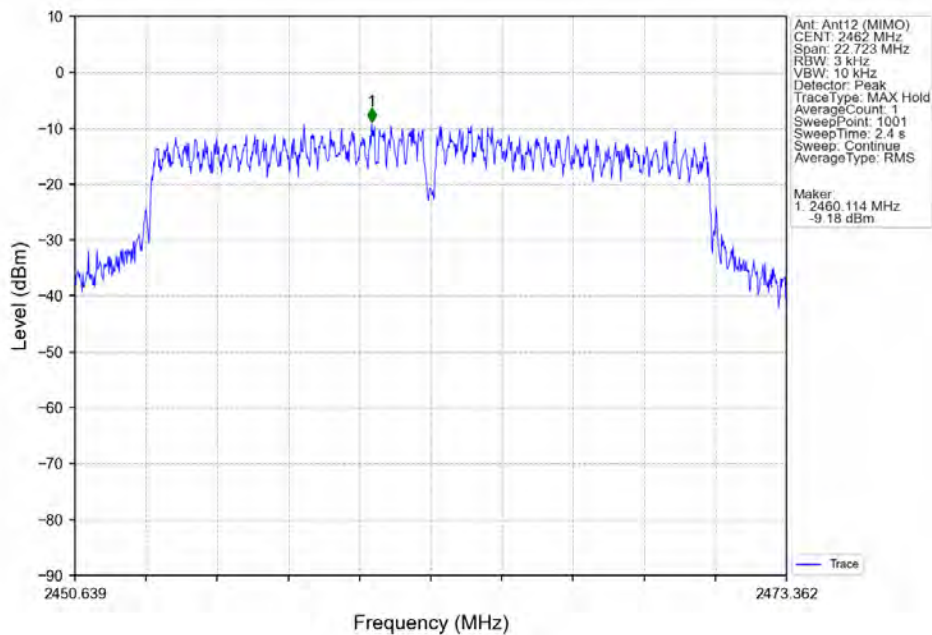
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802.11n(HT20)_HCH_2462MHz_Ant7 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant12 (MIMO)_NTNV



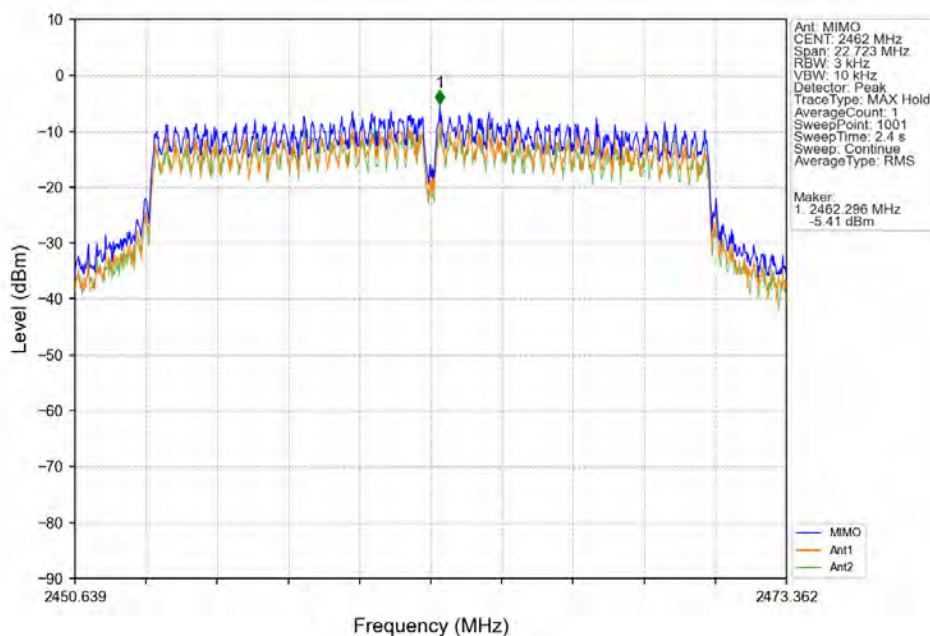
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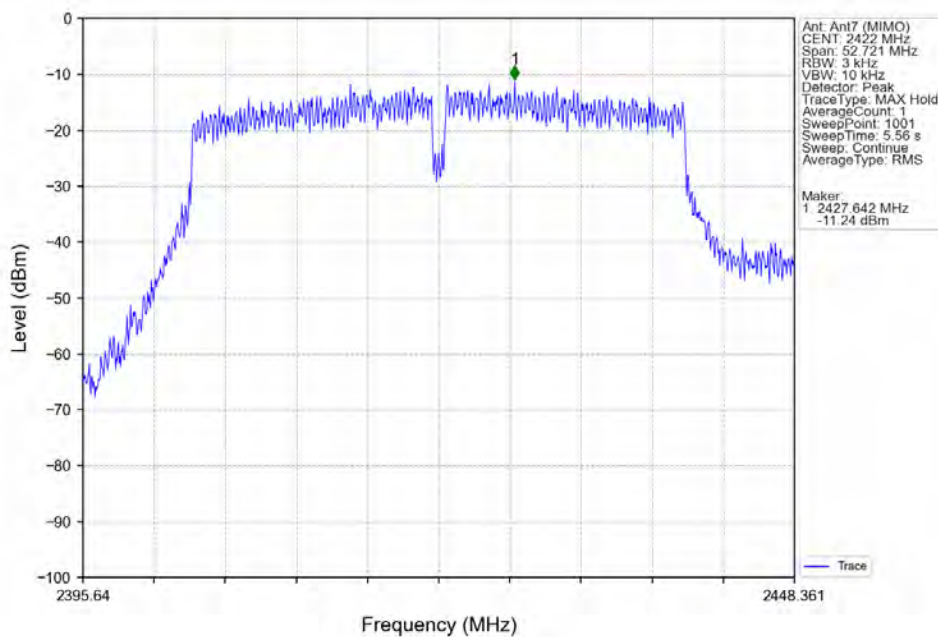
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Shenzhen Branch Testing Center EMC Laboratory

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802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



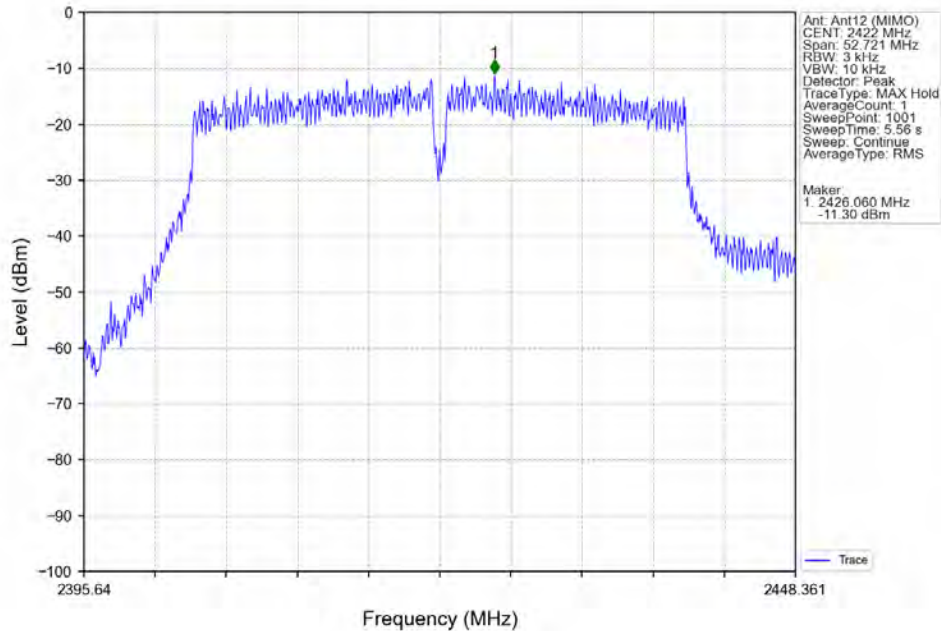
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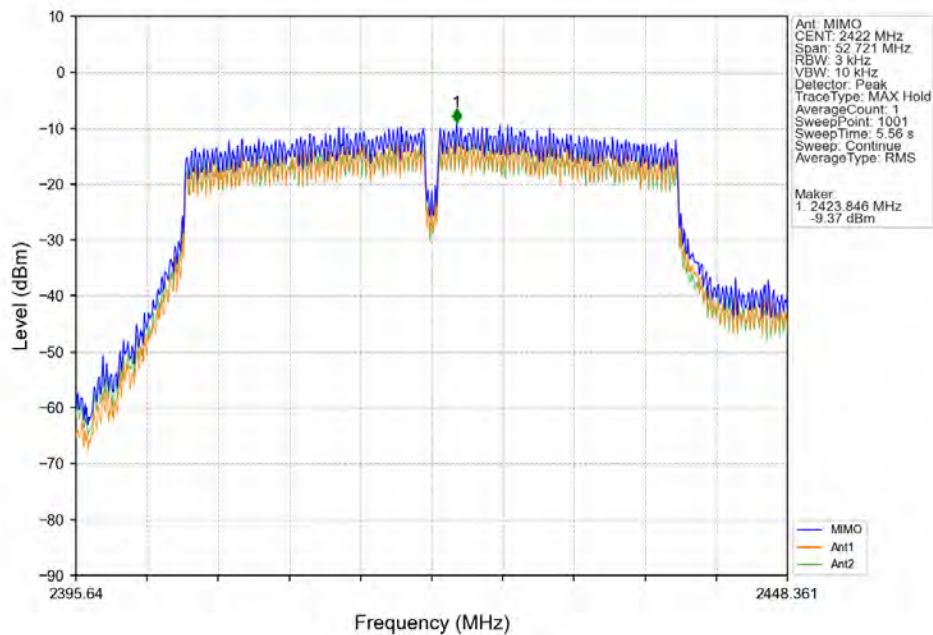
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802.11n(HT40)_LCH_2422MHz_Ant12 (MIMO)_NTNV



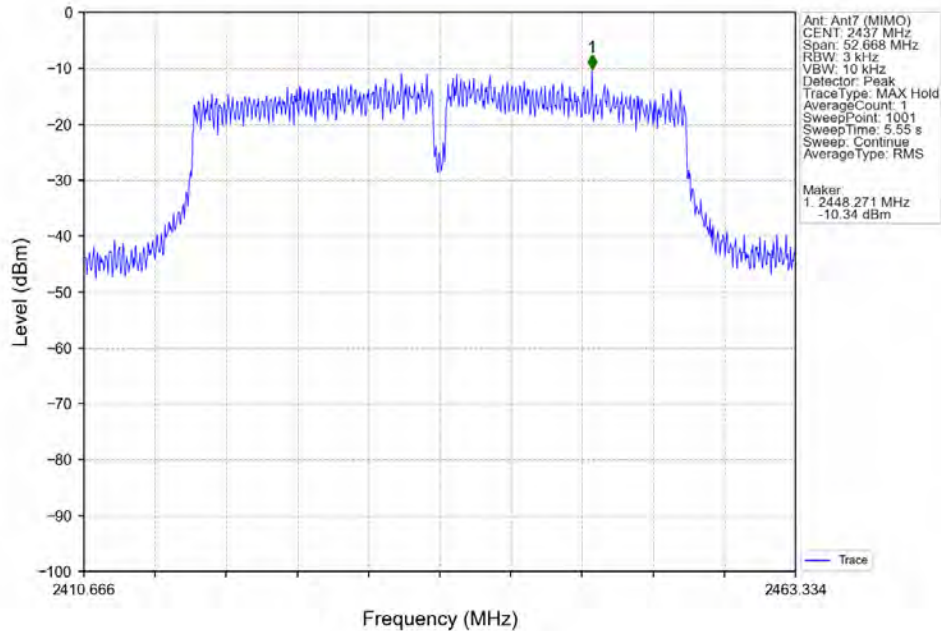
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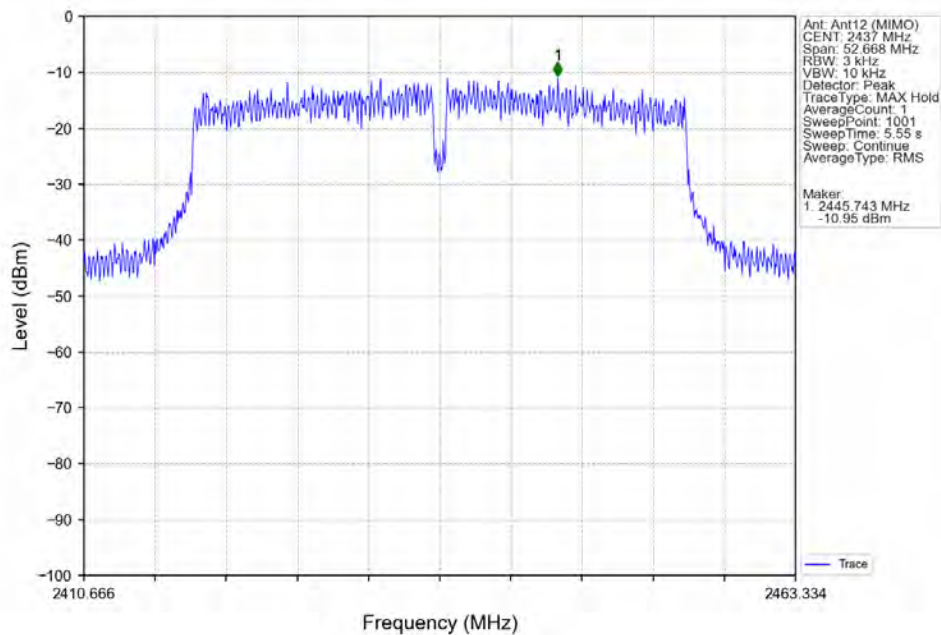
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802.11n(HT40)_MCH_2437MHz_Ant7 (MIMO)_NTNV



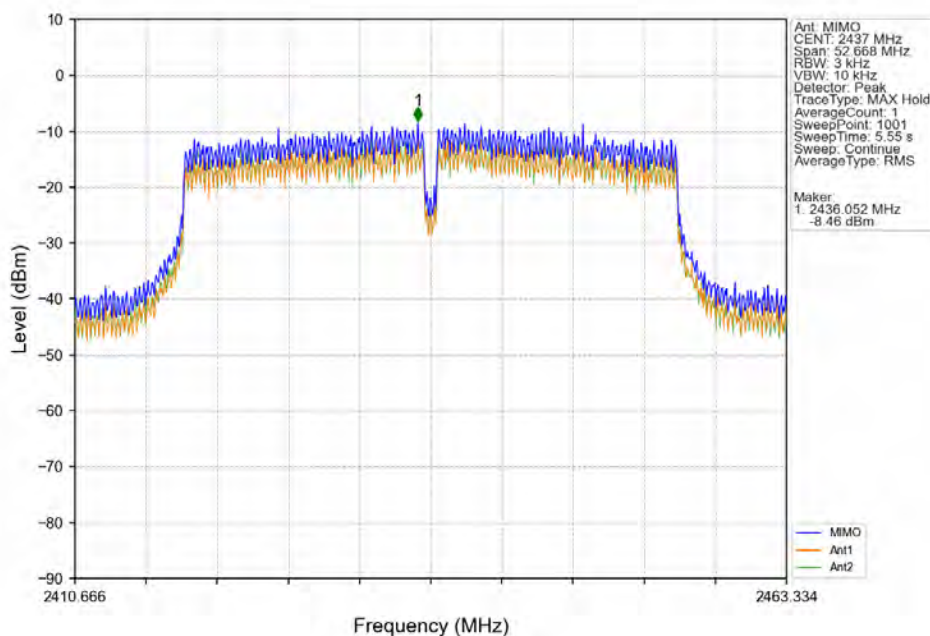
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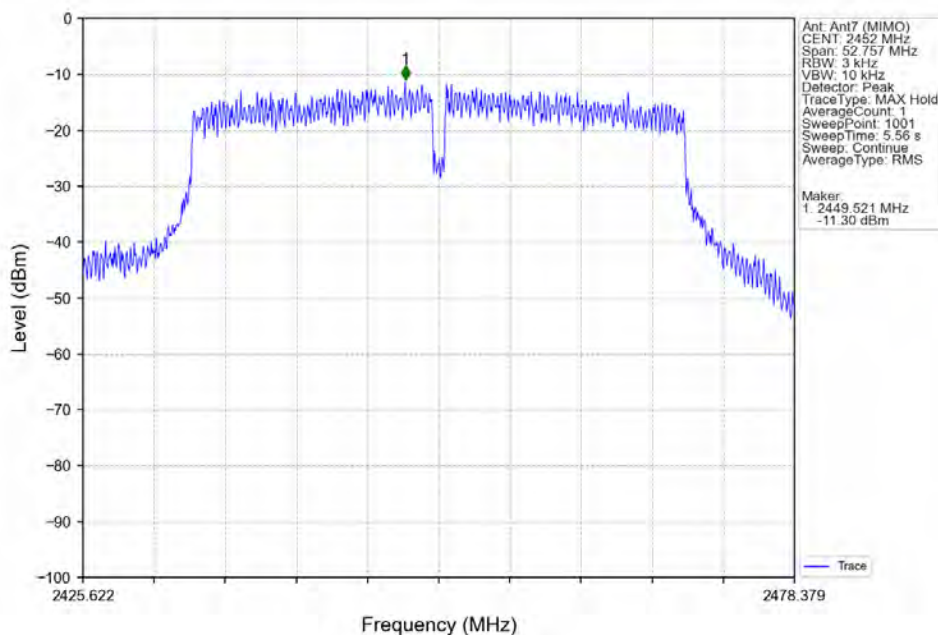
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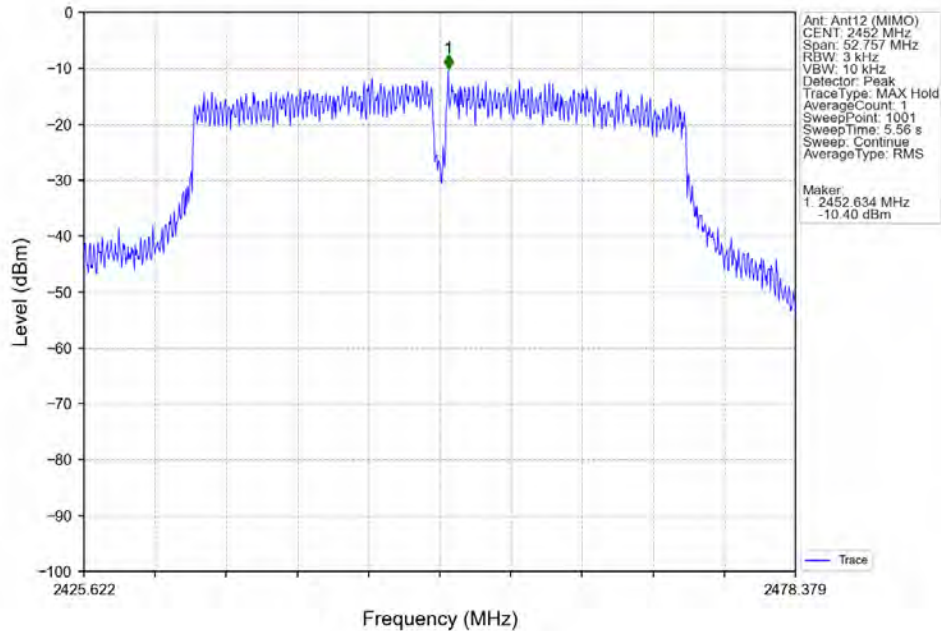
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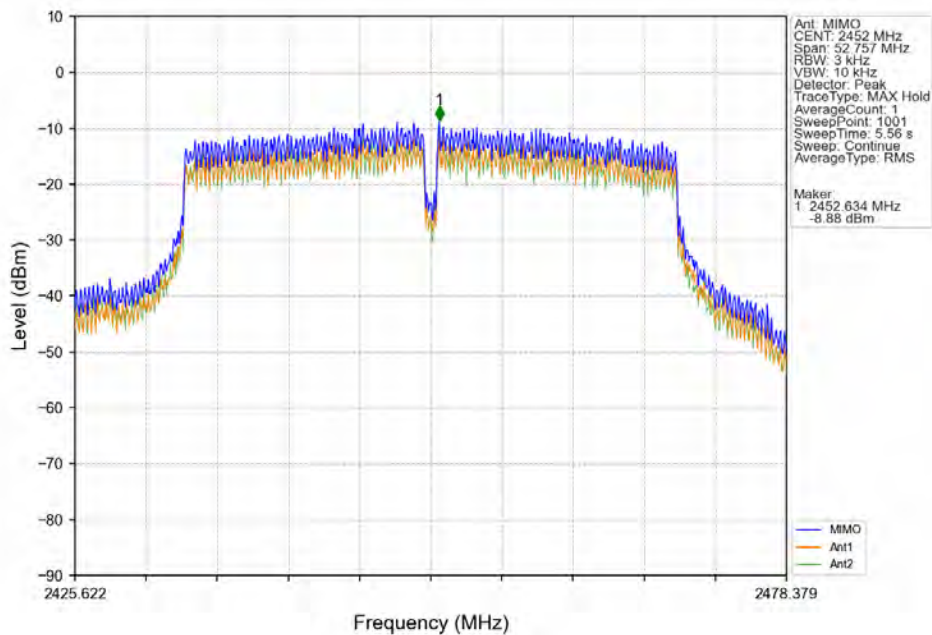
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802.11n(HT40)_HCH_2452MHz_Ant12 (MIMO)_NTNV



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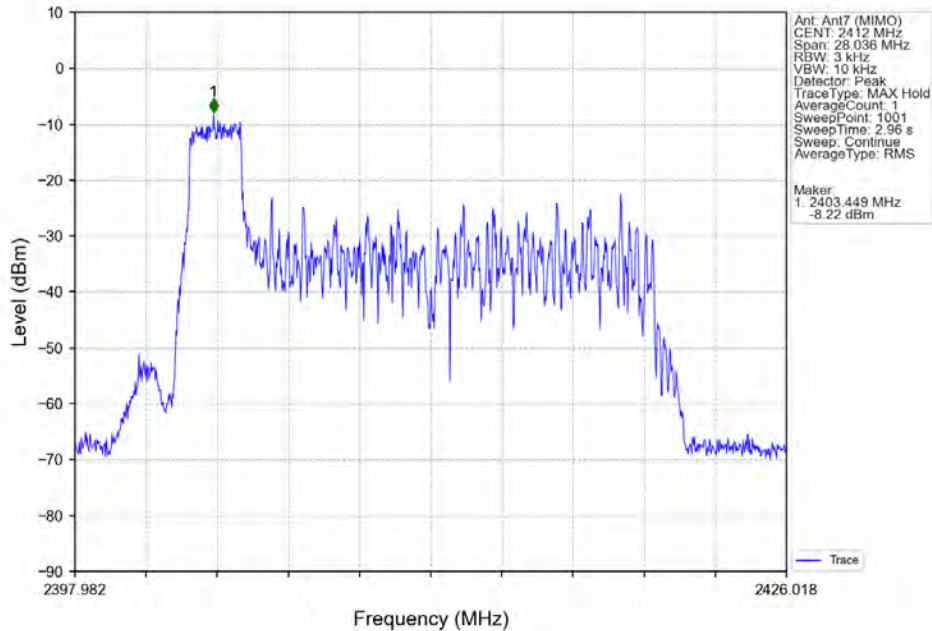
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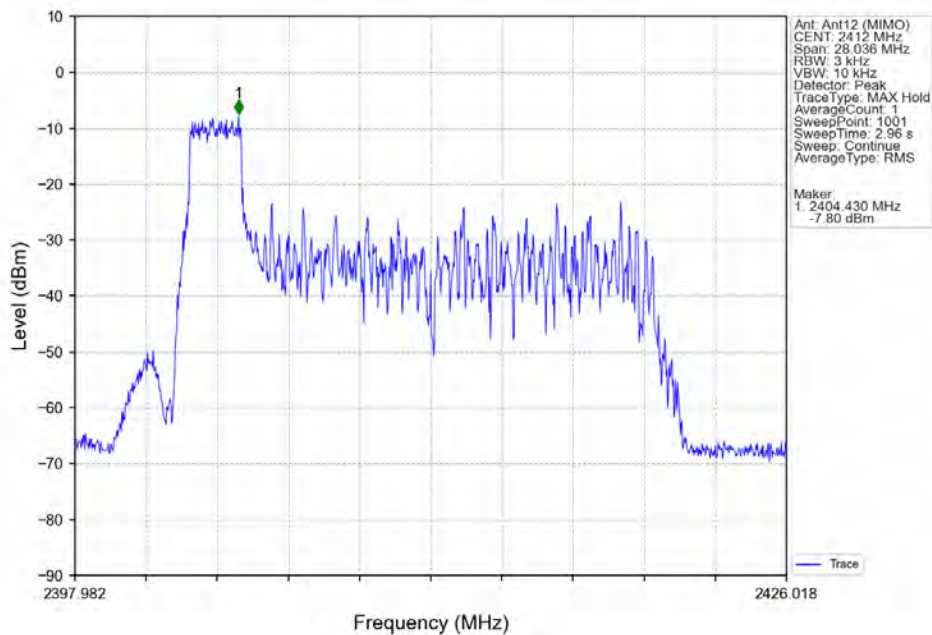
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802.11ax(HEW20)_LCH_2412MHz_RU26_Left_Ant7 (MIMO)_NTNV



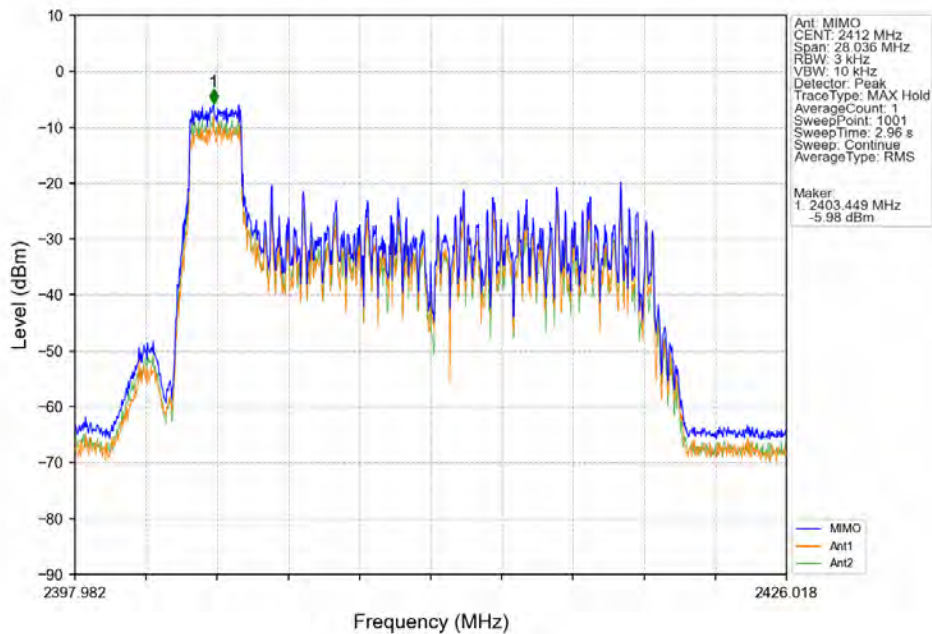
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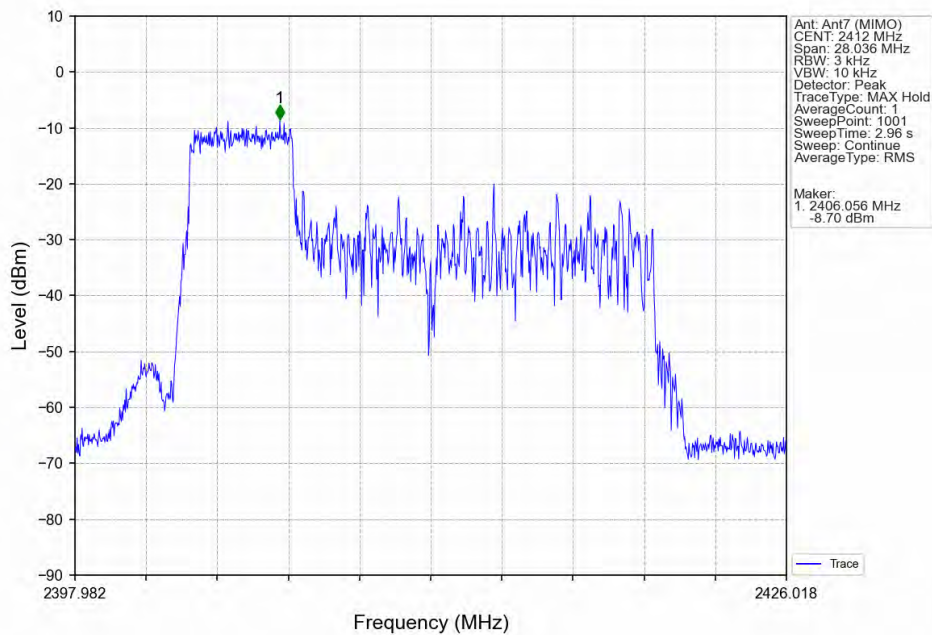
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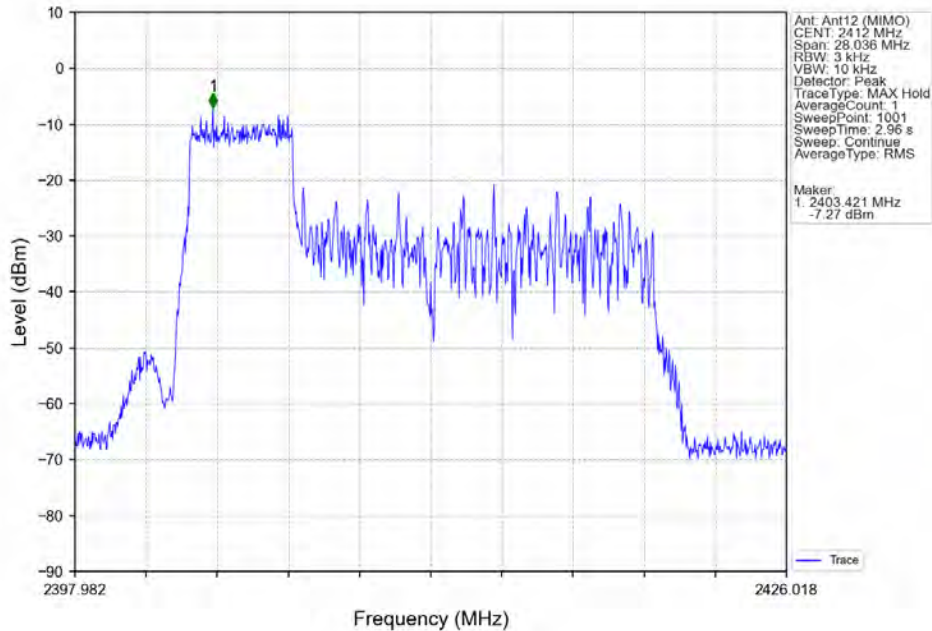
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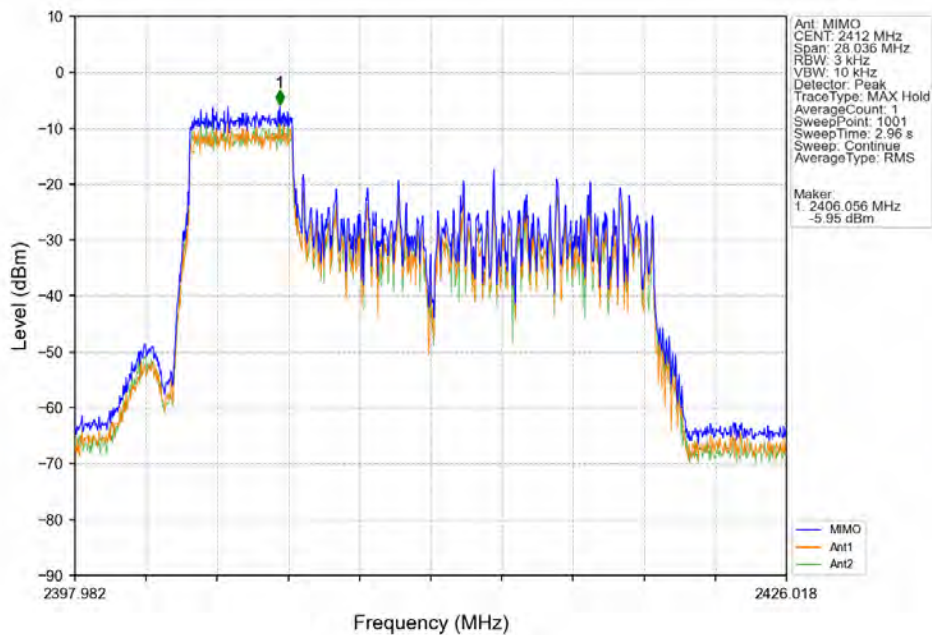
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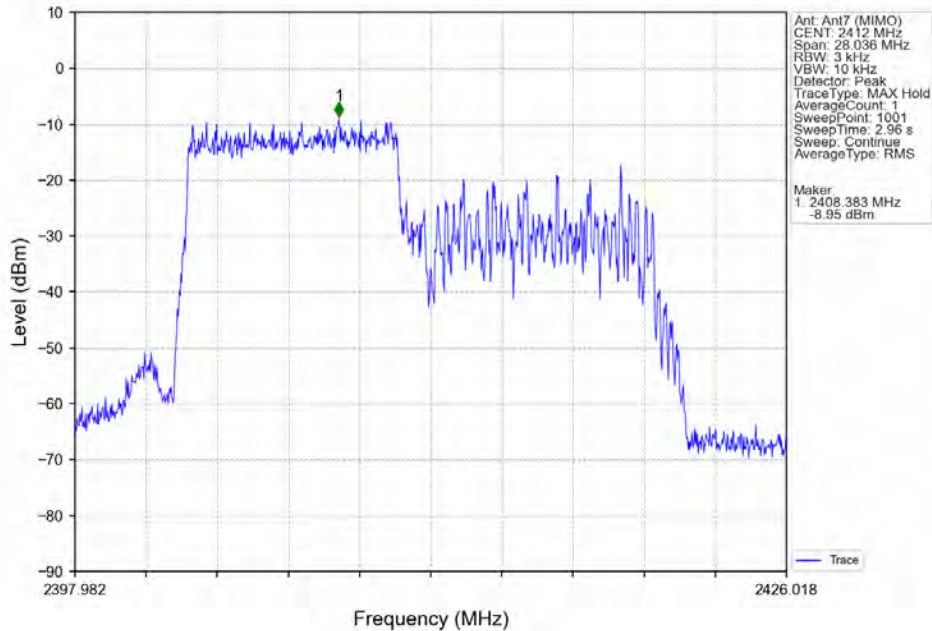
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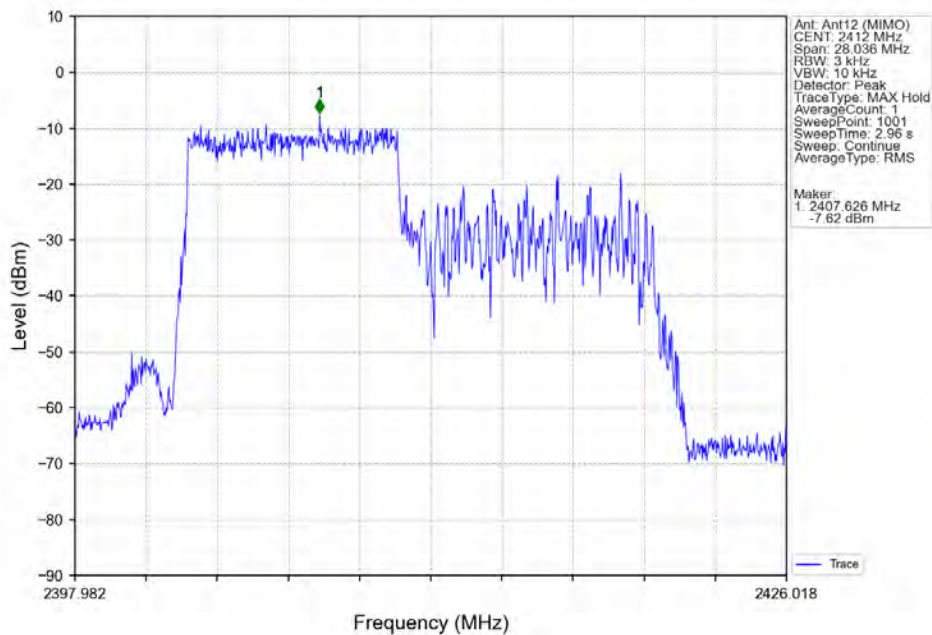
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802.11ax(HEW20)_LCH_2412MHz_RU106_Left_Ant7 (MIMO)_NTNV



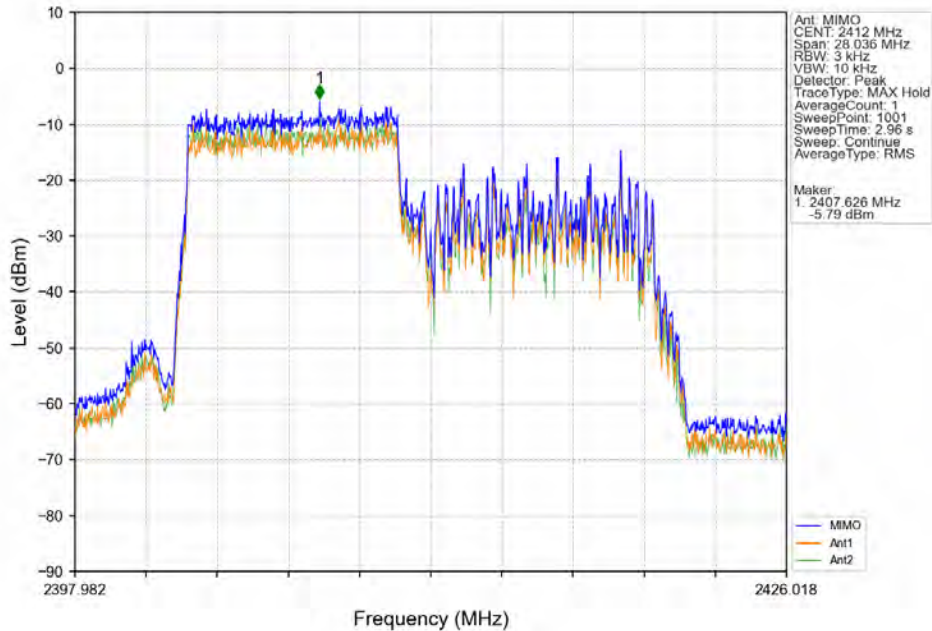
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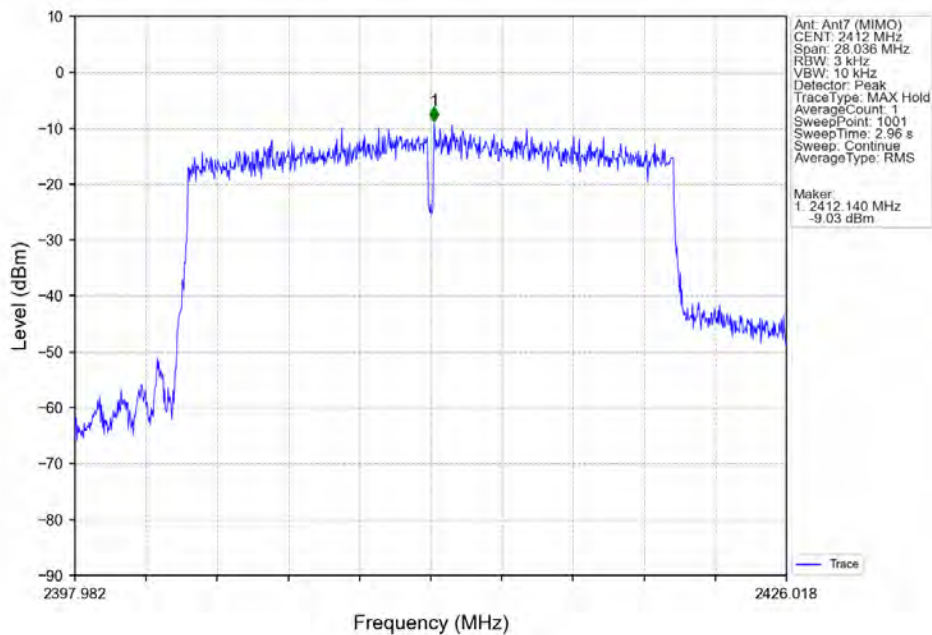
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802.11ax(HEW20)_LCH_2412MHz_RU106_Left_MIMO_NTNV



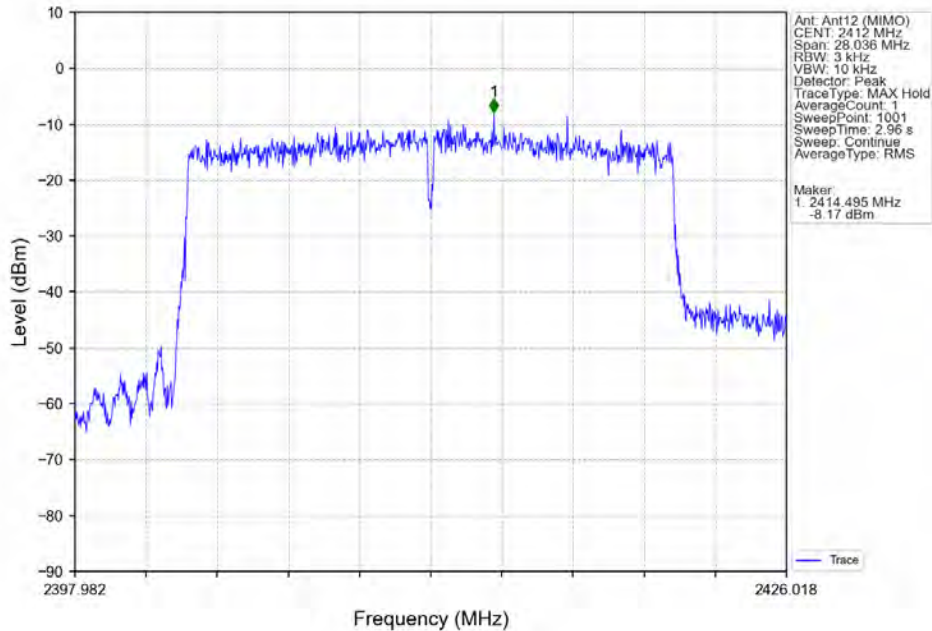
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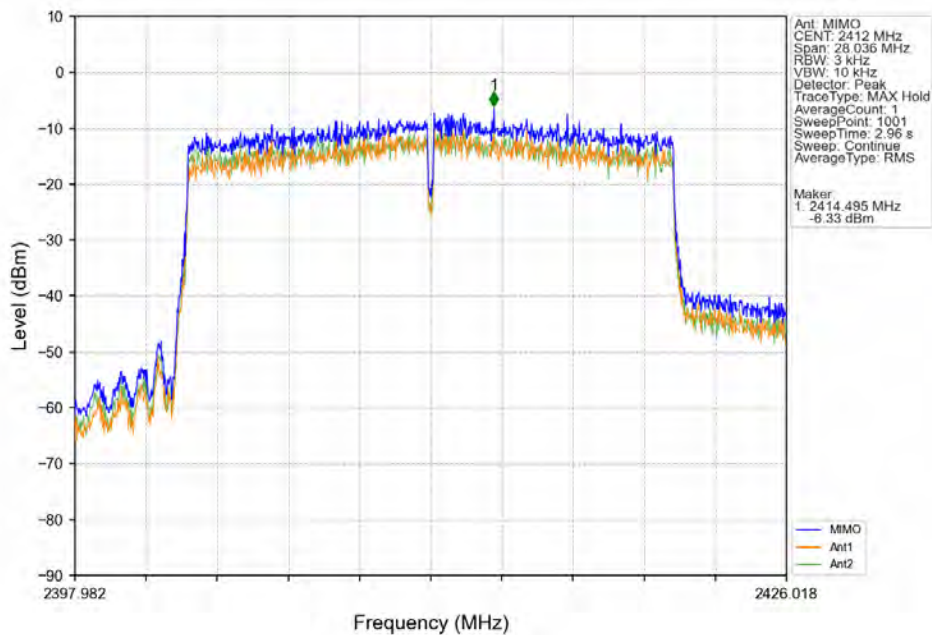
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant12 (MIMO)_NTNV



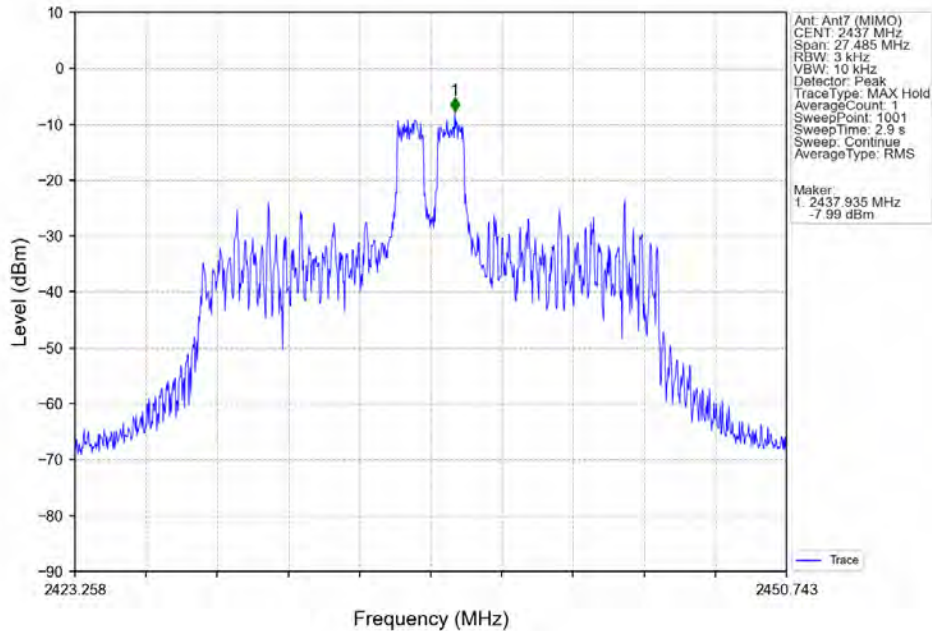
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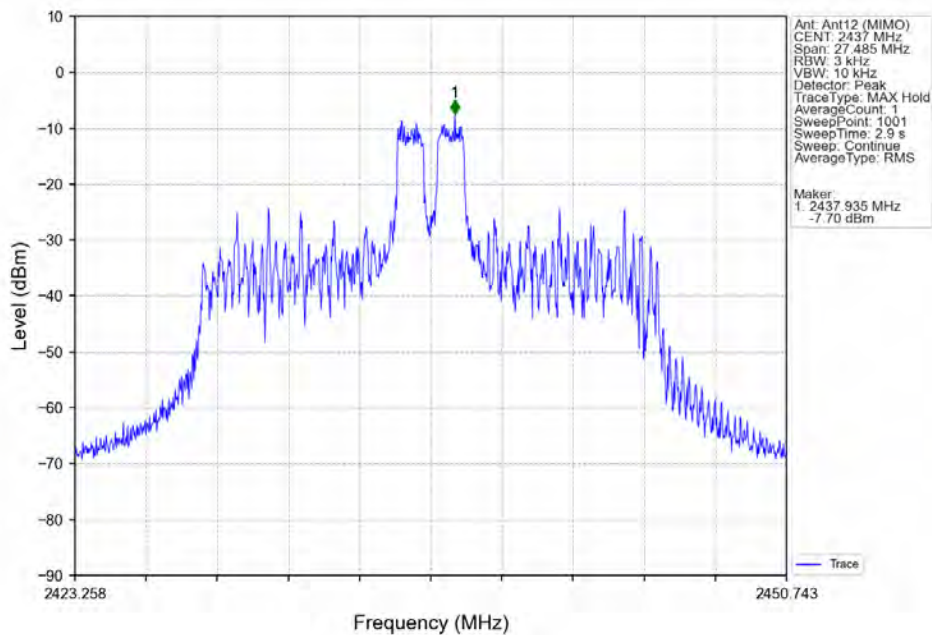
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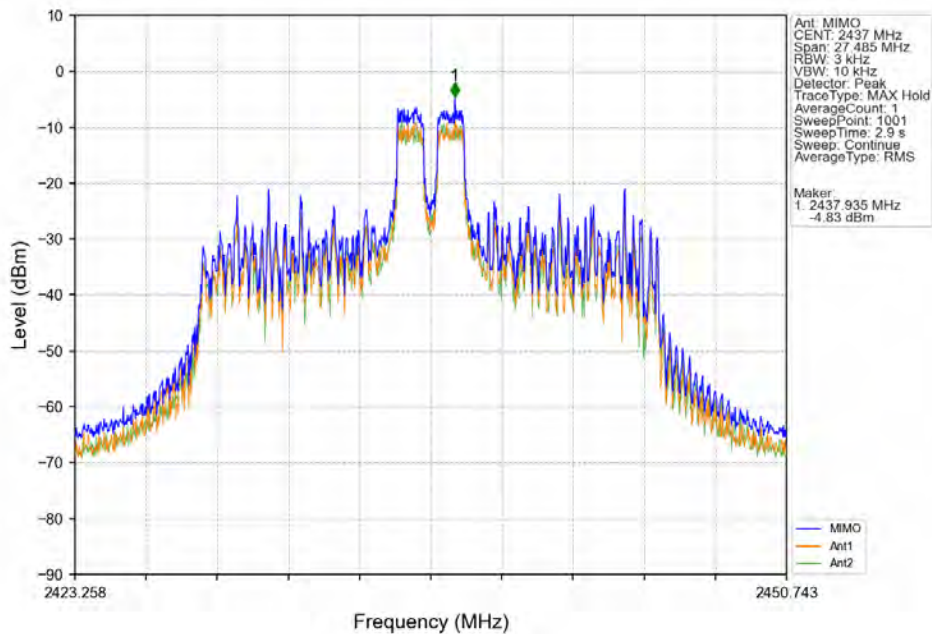
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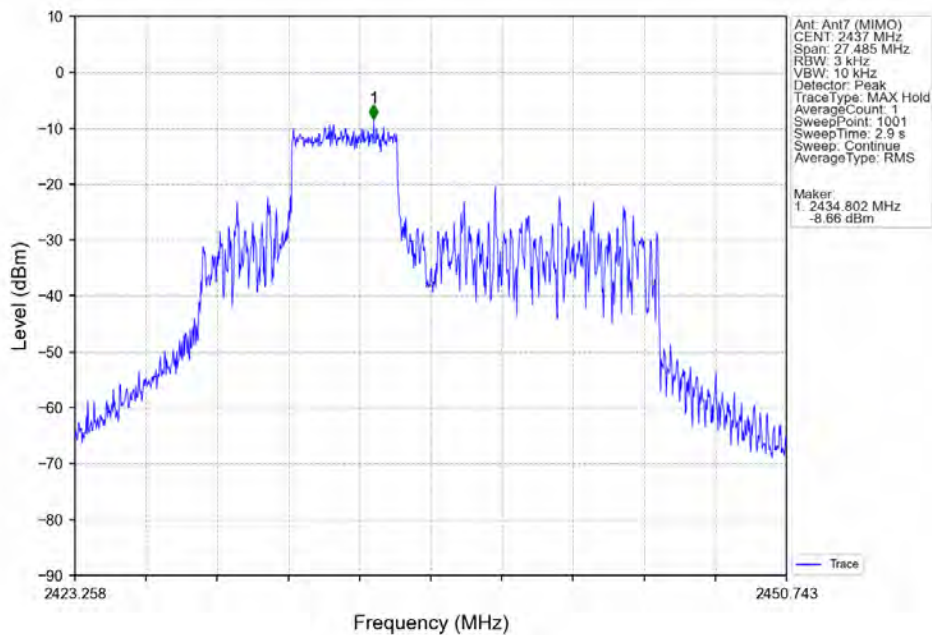
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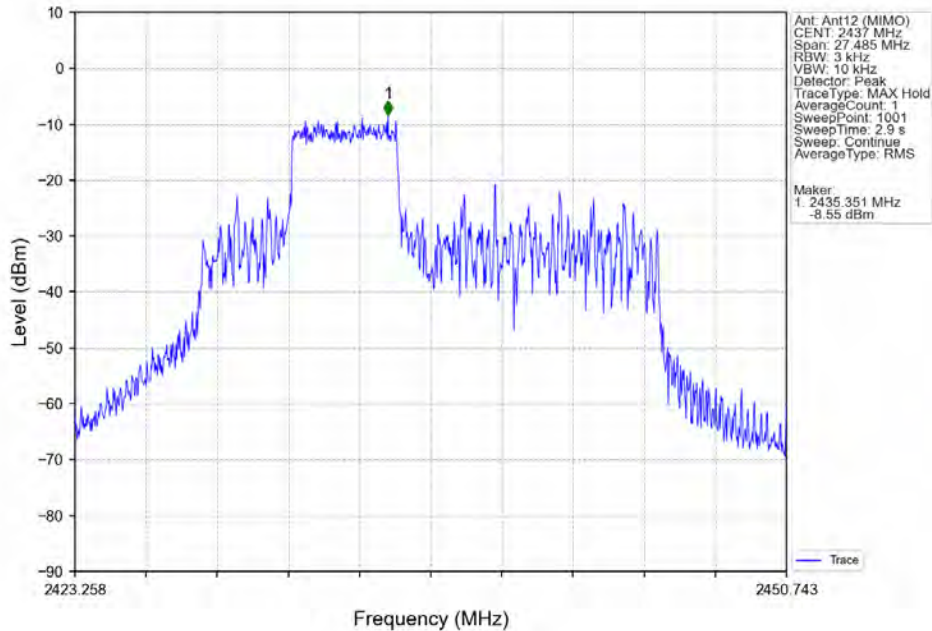
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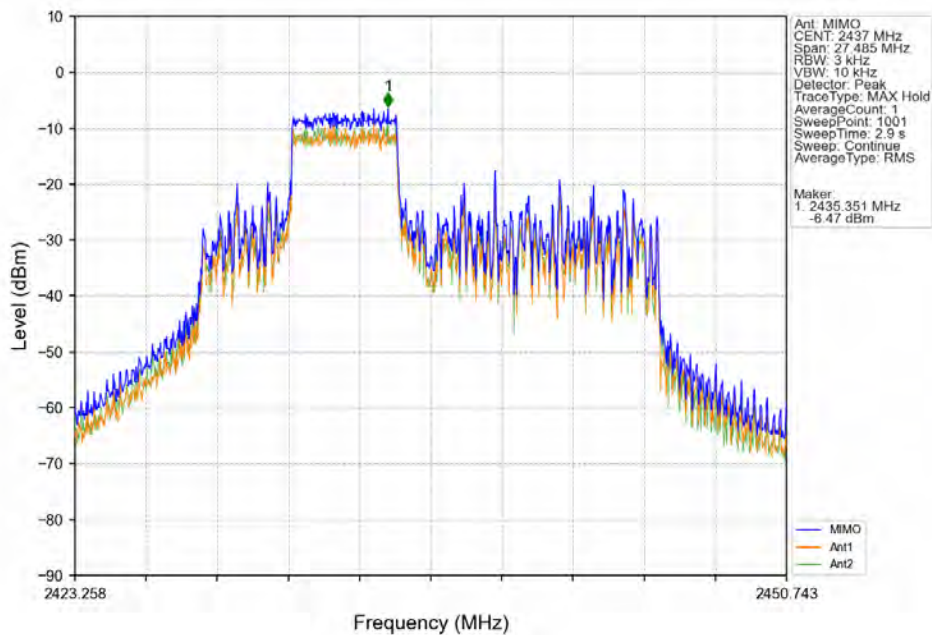
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802.11ax(HEW20)_MCH_2437MHz_RU52_Mid_Ant12 (MIMO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU52_Mid_MIMO_NTNV



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