

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700329104

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TEST REPORT

Application No.: SZCR2507003291AT
Applicant: PAX Technology Limited
Address of Applicant: FLAT/RM 2504, 25/F, SUN HUNG KAI CENTRE, 30 HARBOUR ROAD, WANCHAI, HK, China
Manufacturer: PAX Computer Technology (Shenzhen) Co., Ltd.
Address of Manufacturer: Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Smart Computer
Model No.: L1620
Trade Mark: PAX
FCC ID: V5PL1620
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-07-25
Date of Test: 2025-08-04 to 2025-10-31
Date of Issue: 2025-11-05

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

Kenx. Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch (EMC Laboratory)

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-11-05		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

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

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



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC20V, 3.25A by adapter Adapter M/N:GLHP065FX Adapter Input:AC100-240V,50/60Hz, 1.6A Adapter Output:DC5V/3A, 9V/3A, 12V/5A, 15V/4.33A, 20V/3.25A
Cable(s):	AC cable:1.8m unshielded cable without ferrite core DC cable: 1.6m unshielded cable without ferrite core
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency:	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz;802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK); 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20):11;802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	ant0: 3.63dBi, ant1:3.08dBi

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Conducted Output Power	$\pm 0.75\text{dB}$
Minimum 6dB Bandwidth	$\pm 3\%$
Power Spectrum Density	$\pm 2.84\text{dB}$
Conducted Band Edges Measurement	$\pm 0.75\text{dB}$



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Conducted Spurious Emissions	$\pm 0.75\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



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4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-11 2025-09-10	2025-09-10 2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

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	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-08-30 2025-08-29	2025-08-29 2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-11 2025-09-10	2025-09-10 2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-27	2024-09-11 2025-09-10	2025-09-10 2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

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



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is ant0: 3.63dBi, ant1:3.08dBi, directional gain: 3.63dBi

Antenna location: Refer to internal photo.



7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

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

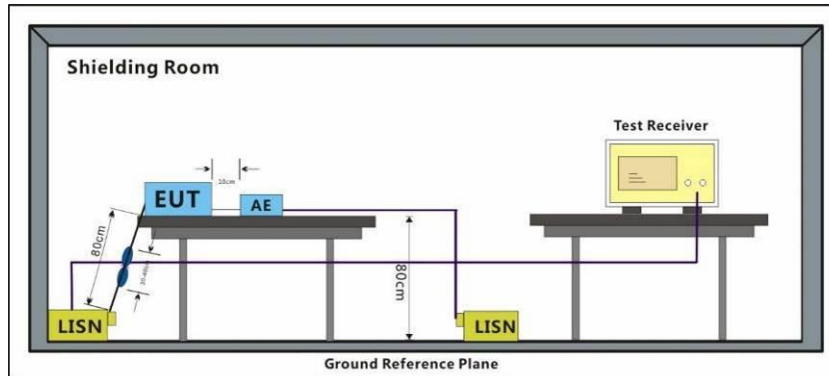
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.1.3 Test Setup Diagram



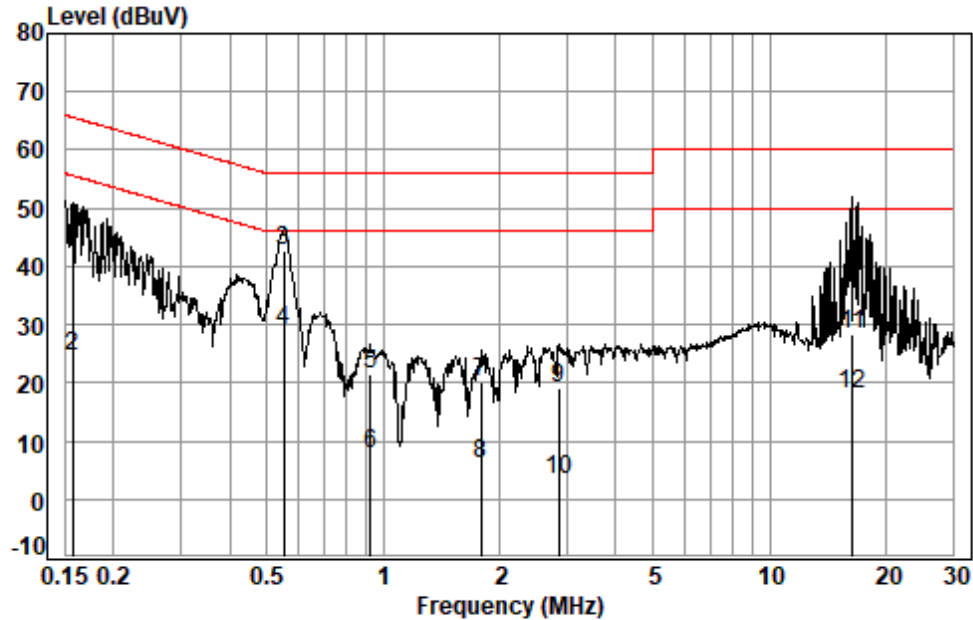
7.1.4 Measurement Procedure and Data

- 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: 03; Line: Live line

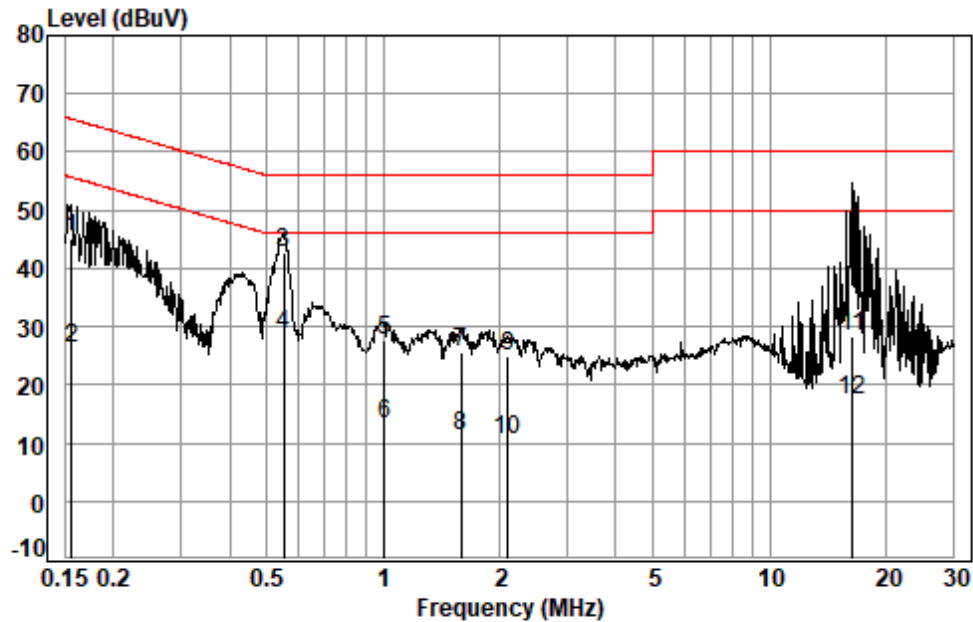


Site : Shielding Room
Condition: Line
Job No. : 03291AT/03292AT
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.05	10.18	33.12	43.35	65.60	-22.25	QP
2	0.1573	0.05	10.18	14.20	24.43	55.60	-31.17	Average
3 *	0.5523	0.08	9.57	33.06	42.71	56.00	-13.29	QP
4 *	0.5523	0.08	9.57	19.40	29.05	46.00	-16.95	Average
5	0.9282	0.10	9.59	11.95	21.64	56.00	-34.36	QP
6	0.9282	0.10	9.59	-1.92	7.77	46.00	-38.23	Average
7	1.7905	0.11	9.58	10.45	20.14	56.00	-35.86	QP
8	1.7905	0.11	9.58	-3.48	6.21	46.00	-39.79	Average
9	2.8390	0.12	9.64	9.44	19.20	56.00	-36.80	QP
10	2.8390	0.12	9.64	-6.43	3.33	46.00	-42.67	Average
11	16.3985	0.29	10.00	17.87	28.16	60.00	-31.84	QP
12	16.3985	0.29	10.00	7.84	18.13	50.00	-31.87	Average



Test Mode: 03; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03291AT/03292AT
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.05	10.14	34.93	45.12	65.69	-20.57	QP
2	0.1557	0.05	10.14	15.92	26.11	55.69	-29.58	Average
3 *	0.5523	0.08	9.69	32.76	42.53	56.00	-13.47	QP
4 *	0.5523	0.08	9.69	18.87	28.64	46.00	-17.36	Average
5	1.0050	0.10	9.54	18.00	27.64	56.00	-28.36	QP
6	1.0050	0.10	9.54	3.56	13.20	46.00	-32.80	Average
7	1.5935	0.11	9.55	16.08	25.74	56.00	-30.26	QP
8	1.5935	0.11	9.55	1.60	11.26	46.00	-34.74	Average
9	2.0990	0.11	9.55	15.26	24.92	56.00	-31.08	QP
10	2.0990	0.11	9.55	0.83	10.49	46.00	-35.51	Average
11	16.3985	0.29	9.94	18.21	28.44	60.00	-31.56	QP
12	16.3985	0.29	9.94	7.01	17.24	50.00	-32.76	Average



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700329104

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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.10.5

Measurement Distance: 3m

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: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



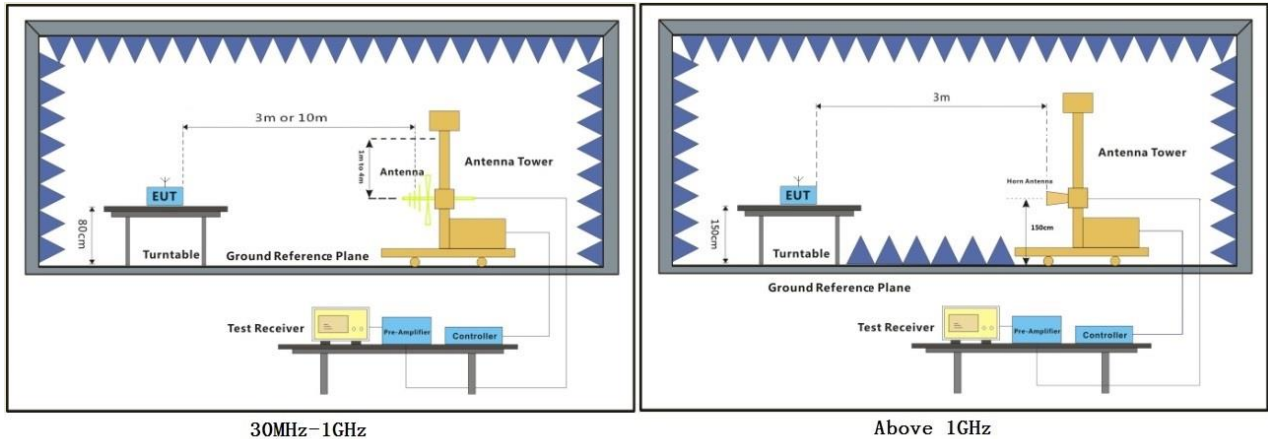
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

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7.2.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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

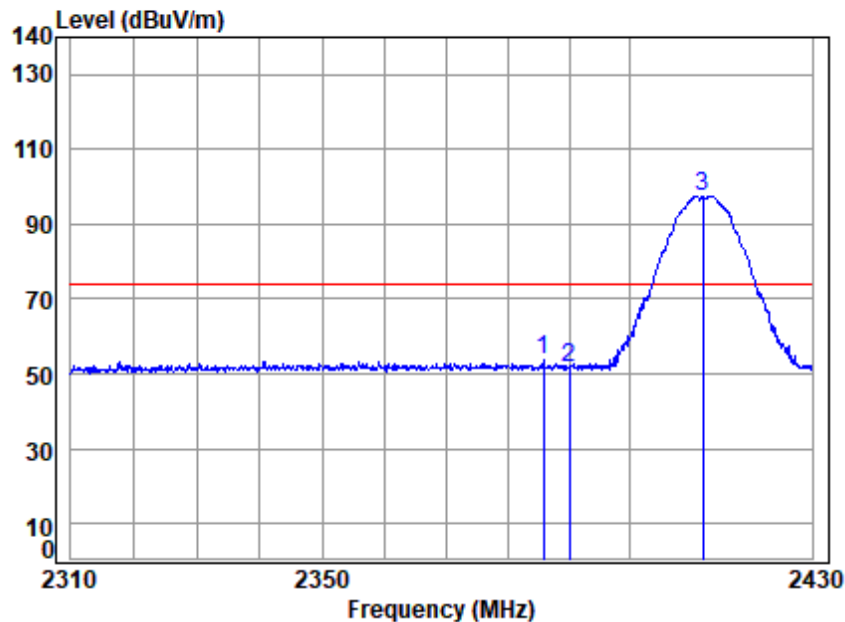
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

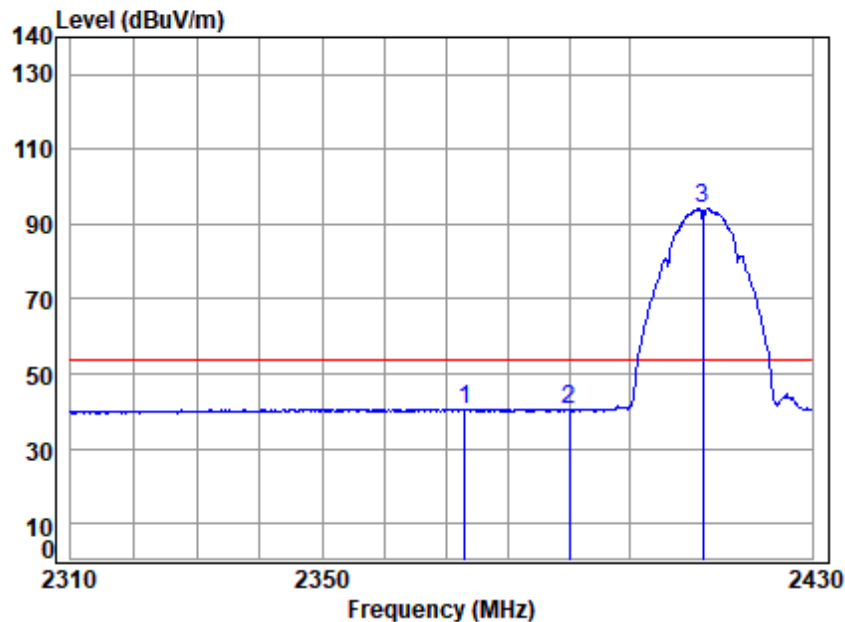


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

		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	2385.857	16.13	29.10	32.78	41.10	53.55	74.00	-20.45	peak
2	2390.000	16.13	29.10	32.78	39.17	51.62	74.00	-22.38	peak
3 p	2412.000	16.17	29.05	32.77	85.14	97.59	74.00	23.59	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

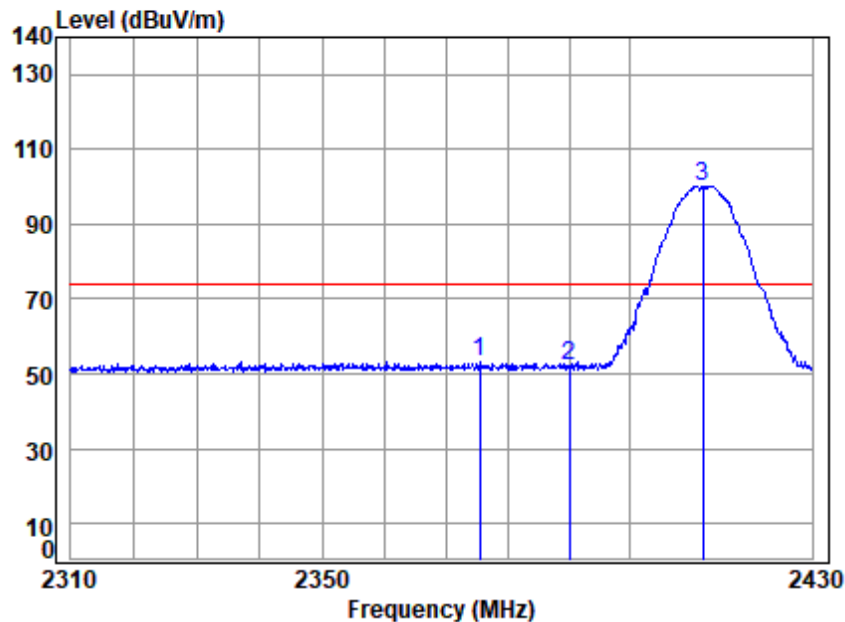


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03291AT\03292AT
 Mode : 2412 Band edge
 : 2.4G WIFI 11B

		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	2372.963	16.11	29.10	32.79	28.28	40.70	54.00	-13.30	Average
2	2390.000	16.13	29.10	32.78	27.99	40.44	54.00	-13.56	Average
3 q	2412.000	16.17	29.05	32.77	81.91	94.36	54.00	40.36	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

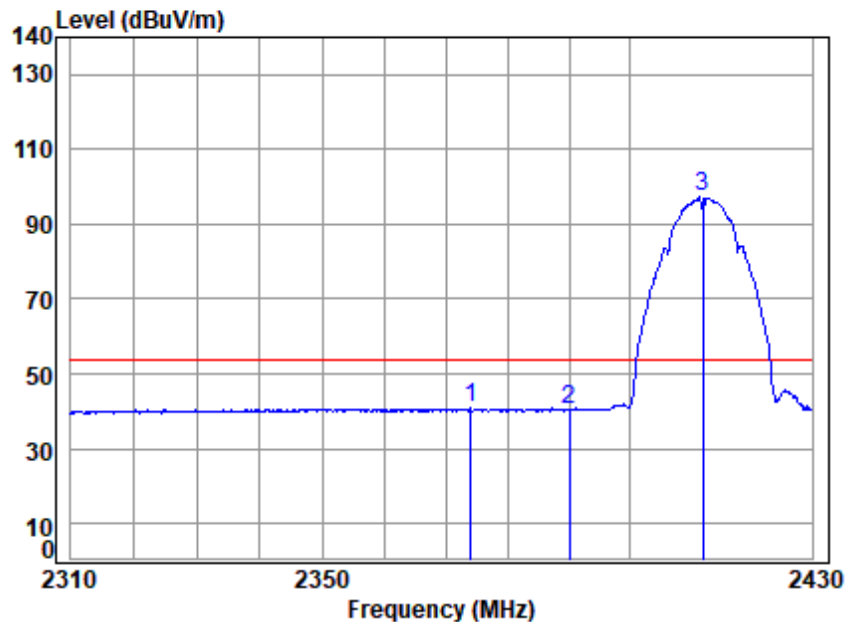


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

		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	2375.488	16.11	29.10	32.79	40.83	53.25	74.00	-20.75	Peak
2	2390.000	16.13	29.10	32.78	39.94	52.39	74.00	-21.61	Peak
3 p	2412.000	16.17	29.05	32.77	87.82	100.27	74.00	26.27	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

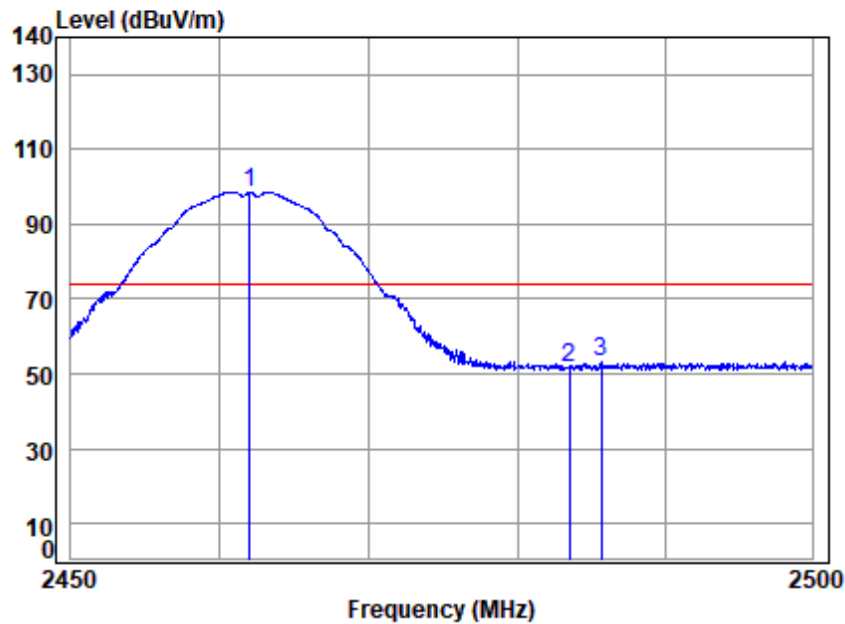


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

		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	2373.925	16.11	29.10	32.79	28.38	40.80	54.00	-13.20	Average
2	2390.000	16.13	29.10	32.78	27.78	40.23	54.00	-13.77	Average
3 q	2412.000	16.17	29.05	32.77	84.71	97.16	54.00	43.16	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

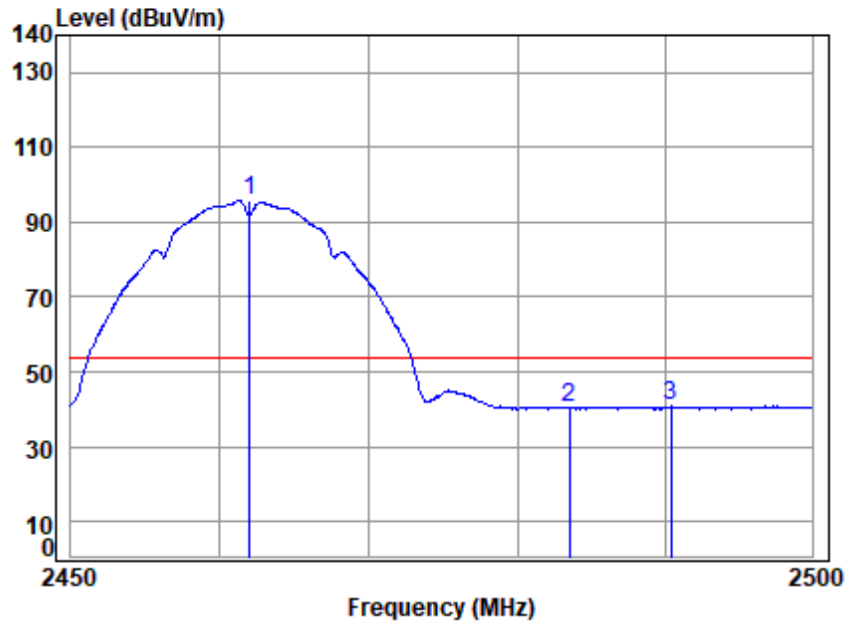


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

		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 p	2462.000	16.24	28.90	32.74	86.29	98.69	74.00	24.69	peak
2	2483.500	16.28	28.90	32.73	39.04	51.49	74.00	-22.51	peak
3	2485.697	16.28	28.90	32.73	40.56	53.01	74.00	-20.99	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

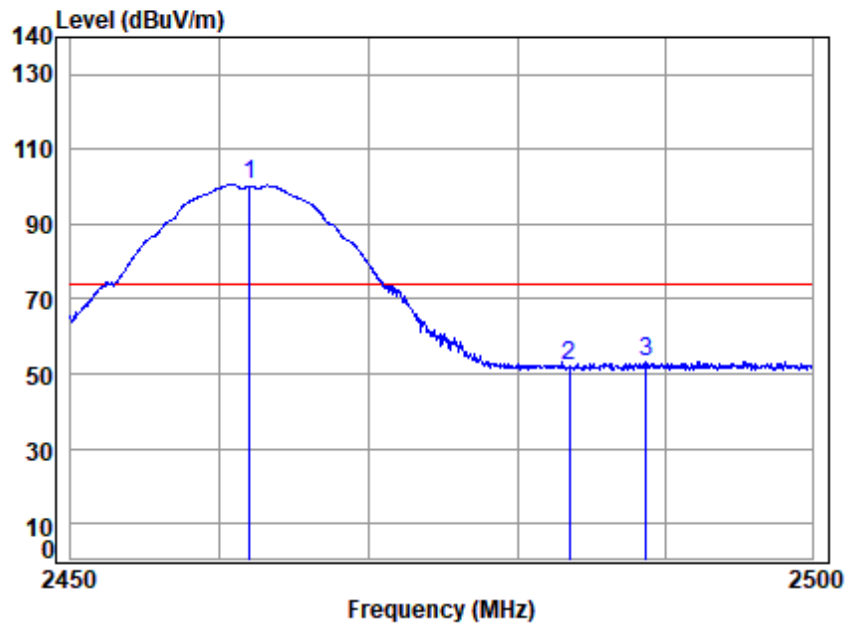


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

		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	q 2462.000	16.24	28.90	32.74	83.26	95.66	54.00	41.66	Average
2	2483.500	16.28	28.90	32.73	27.96	40.41	54.00	-13.59	Average
3	2490.422	16.29	28.90	32.73	28.44	40.90	54.00	-13.10	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

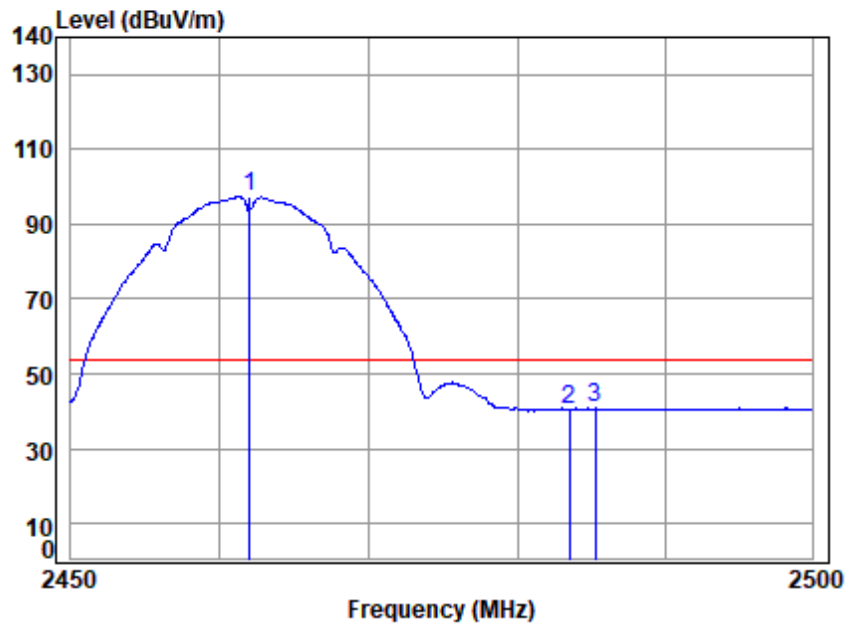


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

		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 p	2462.000	16.24	28.90	32.74	88.18	100.58	74.00	26.58	Peak
2	2483.500	16.28	28.90	32.73	39.60	52.05	74.00	-21.95	Peak
3	2488.712	16.28	28.90	32.73	40.92	53.37	74.00	-20.63	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

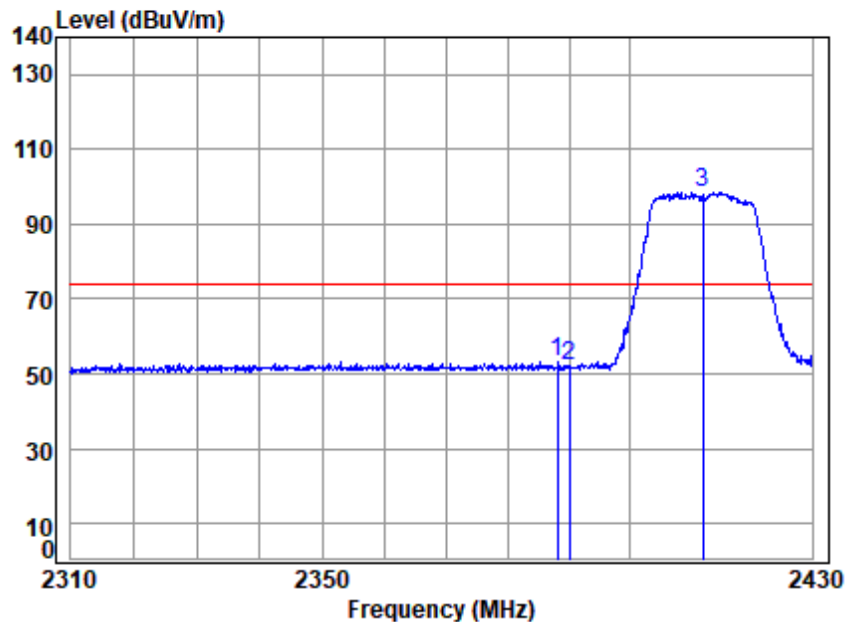


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

		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 q	2462.000	16.24	28.90	32.74	85.18	97.58	54.00	43.58 Average
2	2483.500	16.28	28.90	32.73	28.03	40.48	54.00	-13.52 Average
3	2485.245	16.28	28.90	32.73	28.45	40.90	54.00	-13.10 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

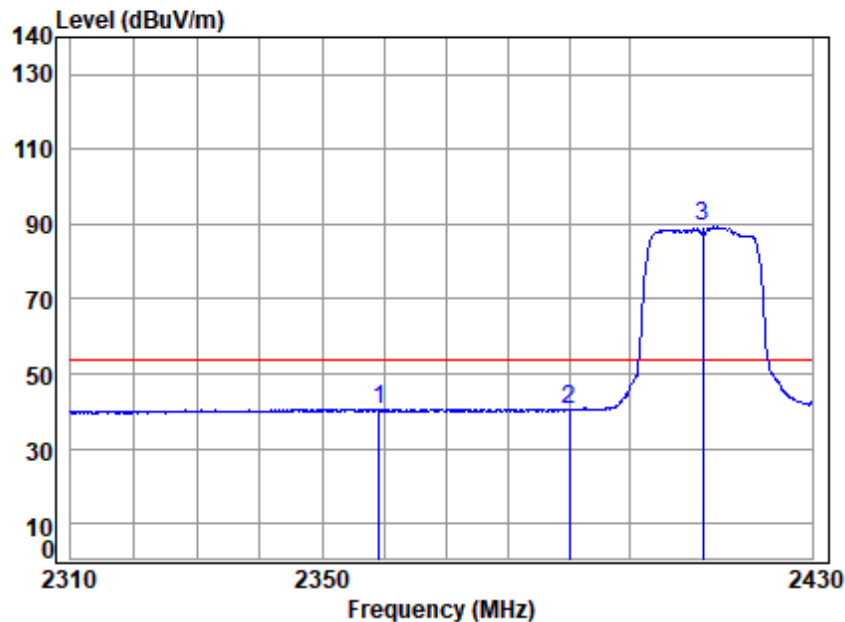


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

		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	2388.154	16.13	29.10	32.78	41.02	53.47	74.00	-20.53	peak
2	2390.000	16.13	29.10	32.78	39.51	51.96	74.00	-22.04	peak
3 p	2412.000	16.17	29.05	32.77	86.15	98.60	74.00	24.60	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

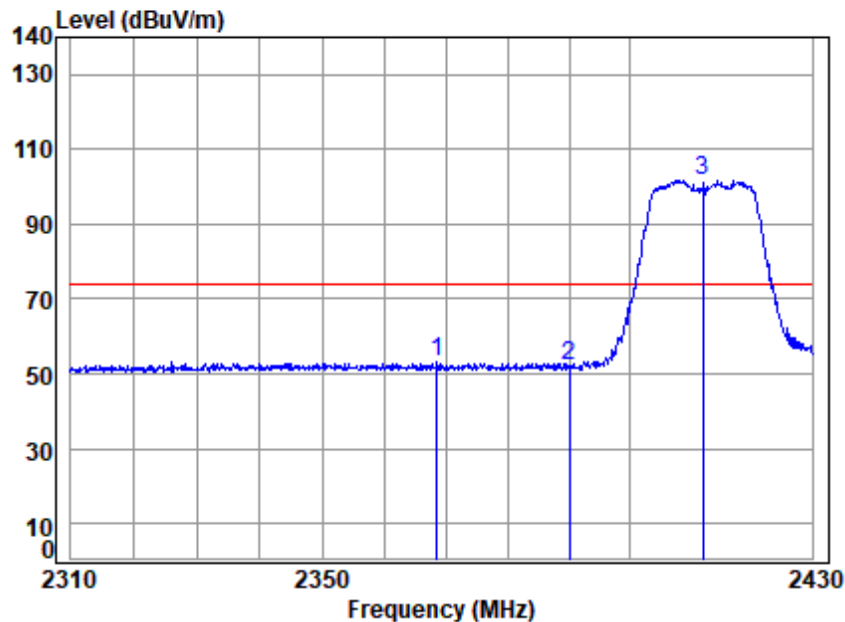


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03291AT\03292AT
 Mode : 2412 Band edge
 : 2.4G WIFI 11N20

		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	2359.183	16.09	29.10	32.80	28.31	40.70	54.00	-13.30	Average
2	2390.000	16.13	29.10	32.78	28.19	40.64	54.00	-13.36	Average
3 q	2412.000	16.17	29.05	32.77	76.80	89.25	54.00	35.25	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

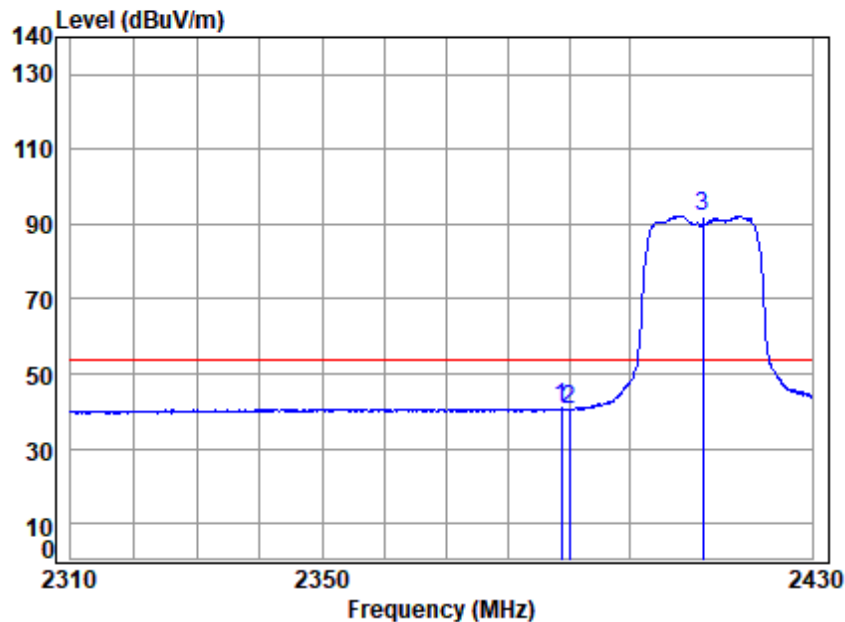


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

		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	2368.521	16.10	29.10	32.79	40.75	53.16	74.00	-20.84	Peak
2	2390.000	16.13	29.10	32.78	39.49	51.94	74.00	-22.06	Peak
3 p	2412.000	16.17	29.05	32.77	89.48	101.93	74.00	27.93	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

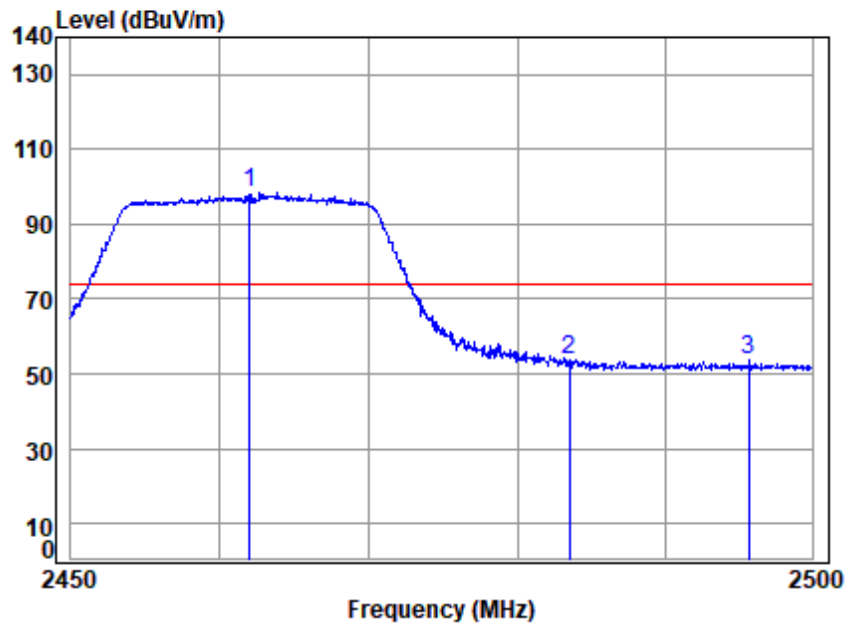


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

		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	2388.758	16.13	29.10	32.78	28.36	40.81	54.00	-13.19	Average
2	2390.000	16.13	29.10	32.78	28.25	40.70	54.00	-13.30	Average
3 q	2412.000	16.17	29.05	32.77	79.82	92.27	54.00	38.27	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

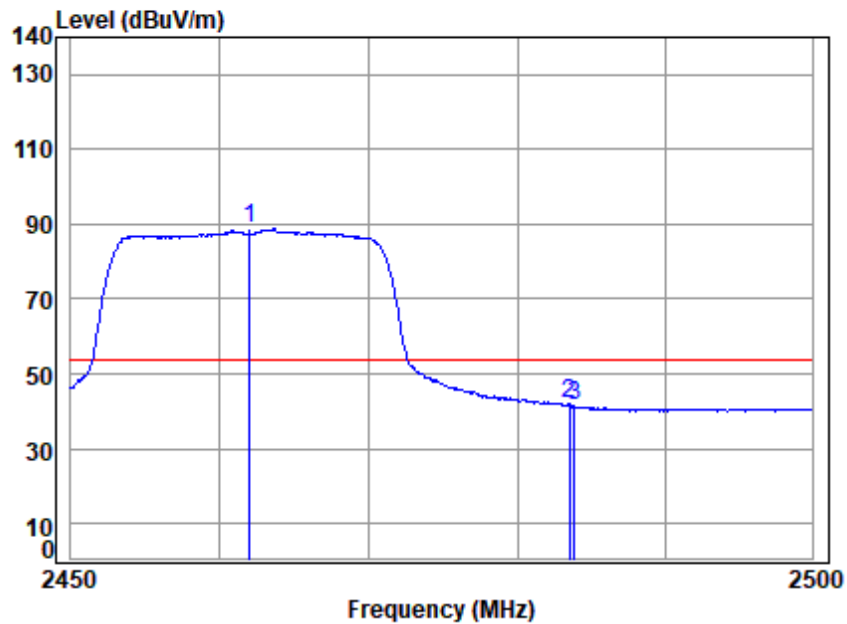


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

		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 p	2462.000	16.24	28.90	32.74	85.90	98.30	74.00	24.30	peak
2	2483.500	16.28	28.90	32.73	41.31	53.76	74.00	-20.24	peak
3	2495.711	16.29	28.90	32.73	41.28	53.74	74.00	-20.26	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

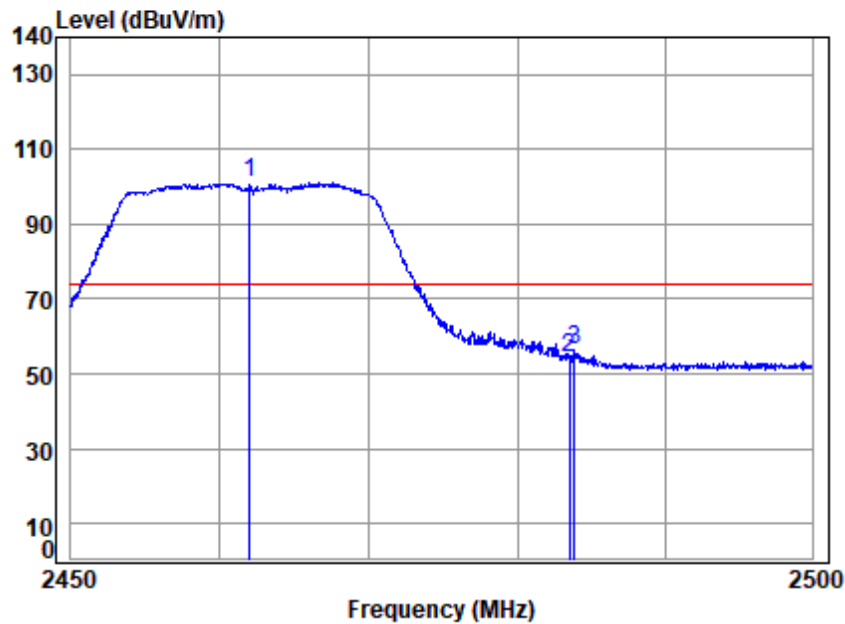


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

		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 q	2462.000	16.24	28.90	32.74	76.30	88.70	54.00	34.70 Average
2	2483.500	16.28	28.90	32.73	29.66	42.11	54.00	-11.89 Average
3	2483.890	16.28	28.90	32.73	28.81	41.26	54.00	-12.74 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

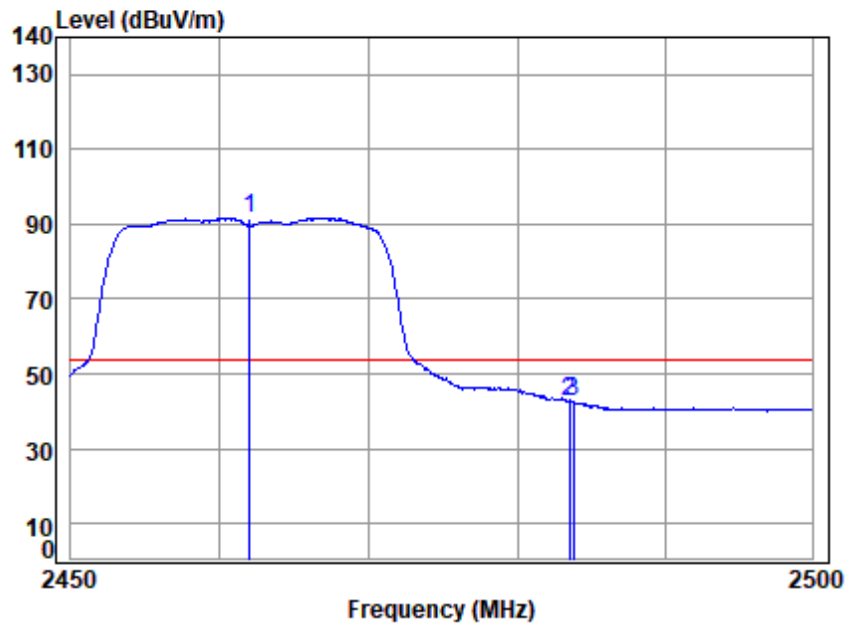


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

		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 p	2462.000	16.24	28.90	32.74	88.71	101.11	74.00	27.11	Peak
2	2483.500	16.28	28.90	32.73	41.87	54.32	74.00	-19.68	Peak
3	2483.890	16.28	28.90	32.73	43.87	56.32	74.00	-17.68	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

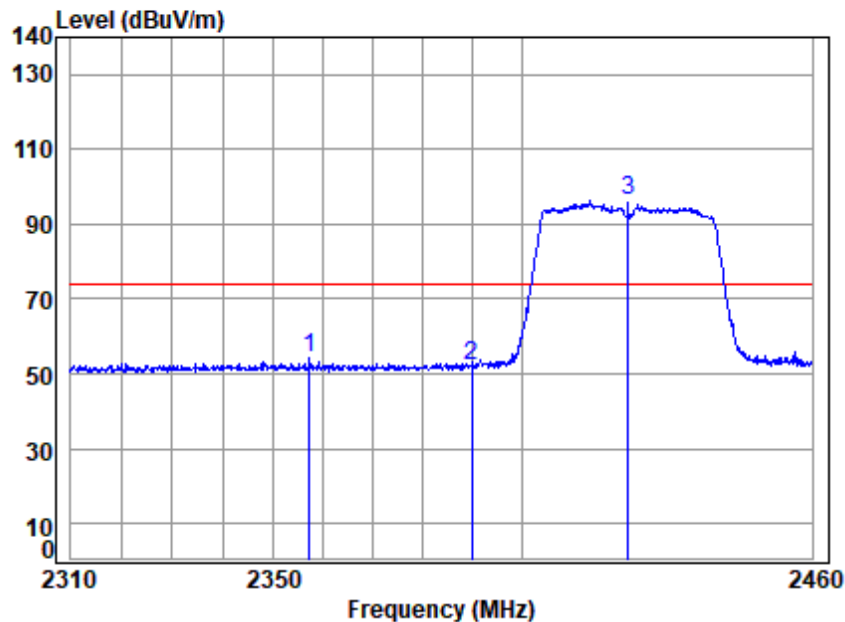


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

		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 q	2462.000	16.24	28.90	32.74	79.41	91.81	54.00	37.81 Average
2	2483.500	16.28	28.90	32.73	30.28	42.73	54.00	-11.27 Average
3	2483.790	16.28	28.90	32.73	30.08	42.53	54.00	-11.47 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

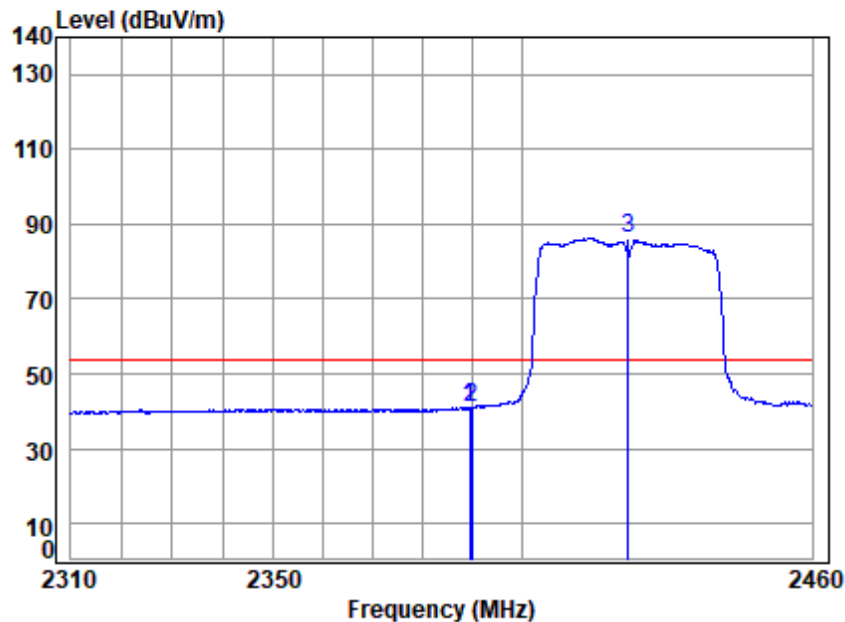


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

		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	2357.274	16.08	29.10	32.80	41.83	54.21	74.00	-19.79	peak
2	2390.000	16.13	29.10	32.78	39.68	52.13	74.00	-21.87	peak
3 p	2422.000	16.18	29.01	32.76	84.03	96.46	74.00	22.46	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

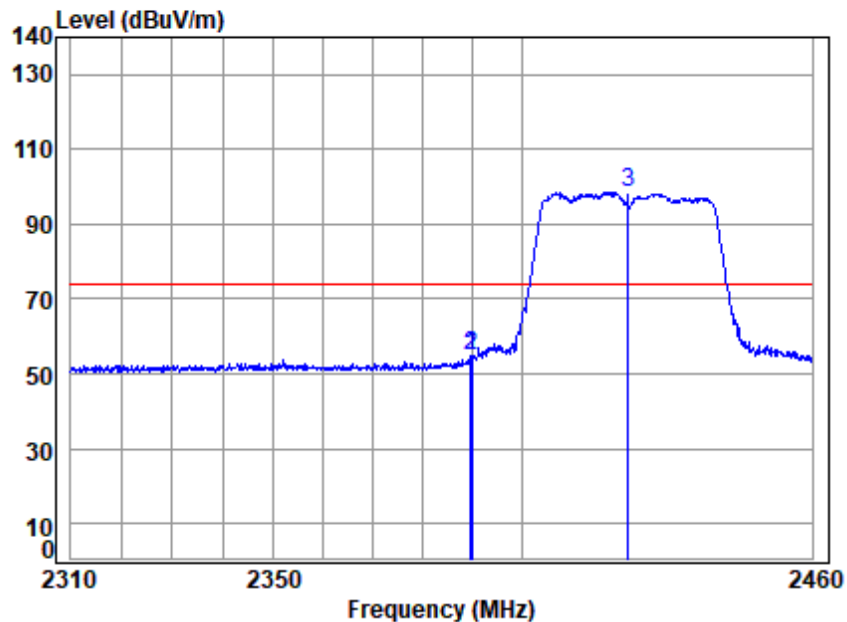


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

		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	16.13	29.10	32.78	28.59	41.04	54.00	-12.96	Average
2	2390.000	16.13	29.10	32.78	28.74	41.19	54.00	-12.81	Average
3 q	2422.000	16.18	29.01	32.76	73.94	86.37	54.00	32.37	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

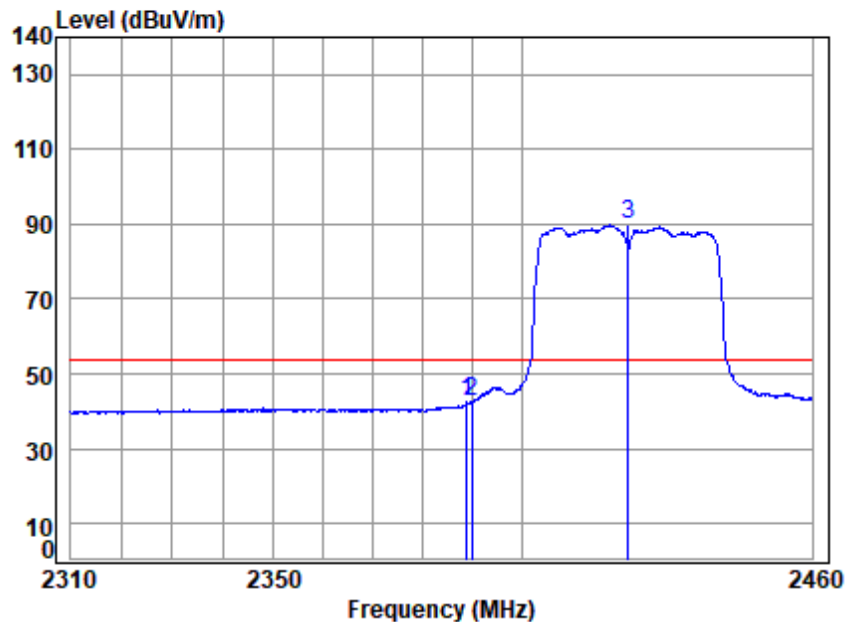


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

		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	16.13	29.10	32.78	42.23	54.68	74.00	-19.32 Peak
2	2390.000	16.13	29.10	32.78	42.35	54.80	74.00	-19.20 Peak
3 p	2422.000	16.18	29.01	32.76	86.22	98.65	74.00	24.65 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

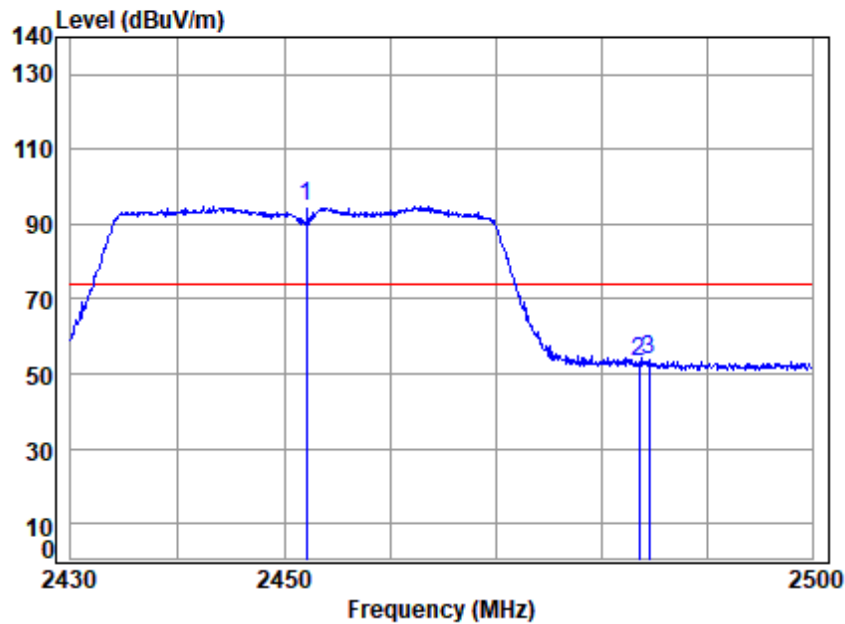


Site : chamber
 Condition: 3m VERTICAL
 Job No : 03291AT\03292AT
 Mode : 2422 Band edge
 : 2.4G WIFI 11N40

		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	16.13	29.10	32.78	29.91	42.36	54.00	-11.64 Average
2	2390.000	16.13	29.10	32.78	30.08	42.53	54.00	-11.47 Average
3 q	2422.000	16.18	29.01	32.76	77.32	89.75	54.00	35.75 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

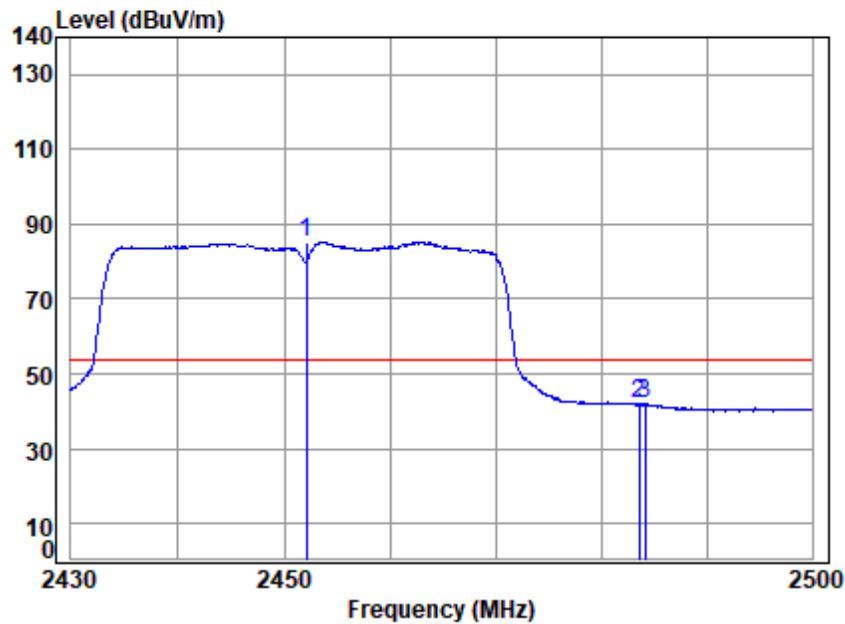


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

		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 p	2452.000	16.23	28.90	32.75	82.37	94.75	74.00	20.75	peak
2	2483.500	16.28	28.90	32.73	40.65	53.10	74.00	-20.90	peak
3	2484.429	16.28	28.90	32.73	41.40	53.85	74.00	-20.15	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

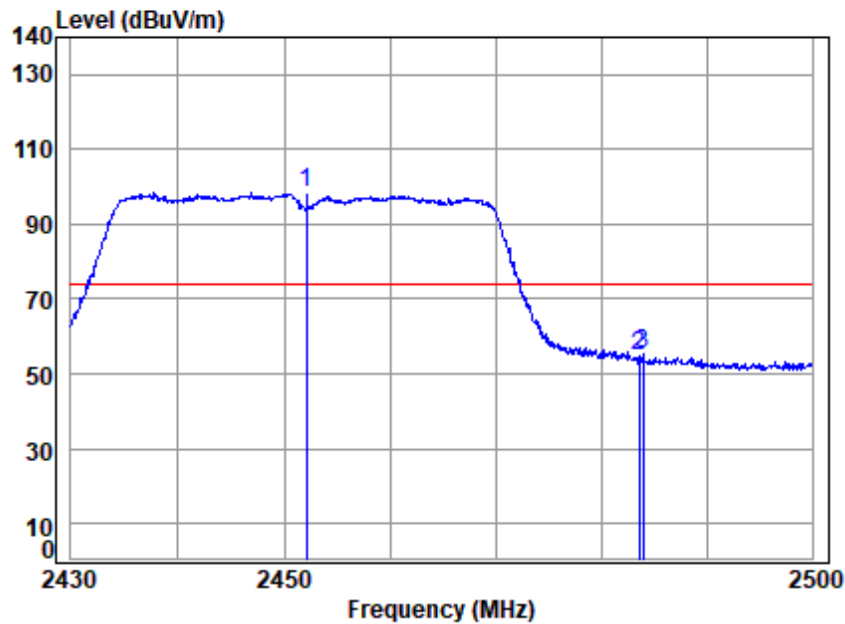


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

		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 q 2452.000	16.23	28.90	32.75	72.88	85.26	54.00	31.26	Average
2 2483.500	16.28	28.90	32.73	29.40	41.85	54.00	-12.15	Average
3 2484.076	16.28	28.90	32.73	29.48	41.93	54.00	-12.07	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

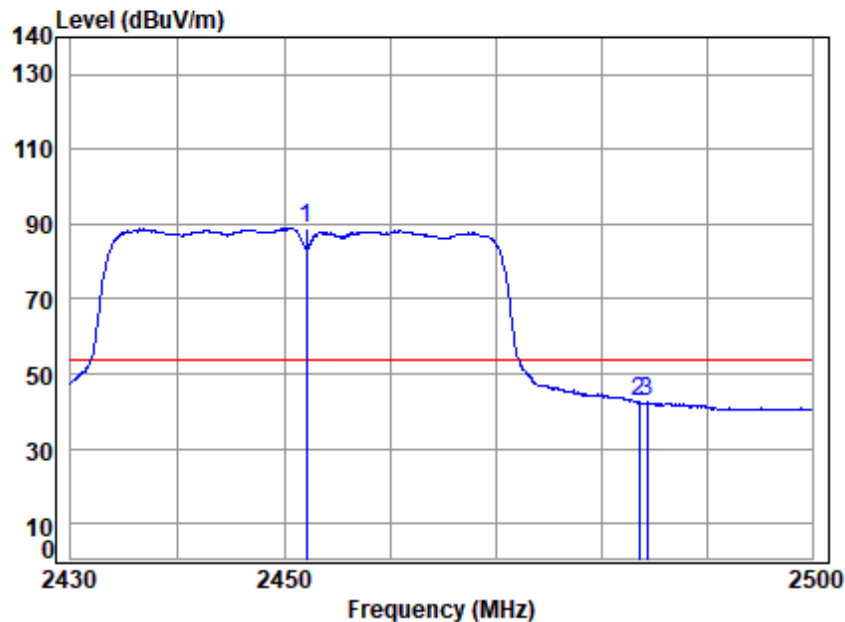


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

		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 p	2452.000	16.23	28.90	32.75	86.34	98.72	74.00	24.72	Peak
2	2483.500	16.28	28.90	32.73	42.31	54.76	74.00	-19.24	Peak
3	2483.865	16.28	28.90	32.73	42.87	55.32	74.00	-18.68	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

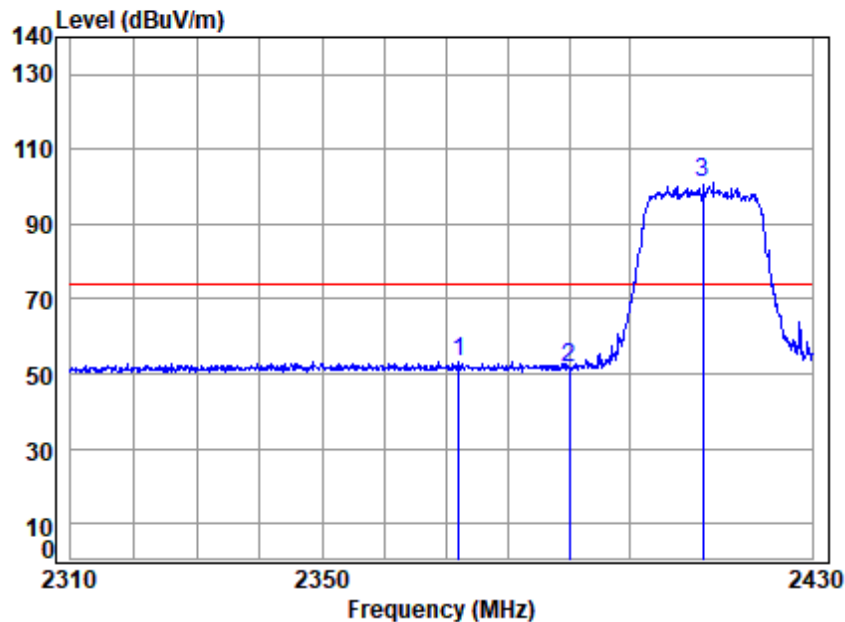


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

		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 q 2452.000	16.23	28.90	32.75	76.70	89.08	54.00	35.08	Average
2 2483.500	16.28	28.90	32.73	29.96	42.41	54.00	-11.59	Average
3 2484.217	16.28	28.90	32.73	29.96	42.41	54.00	-11.59	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

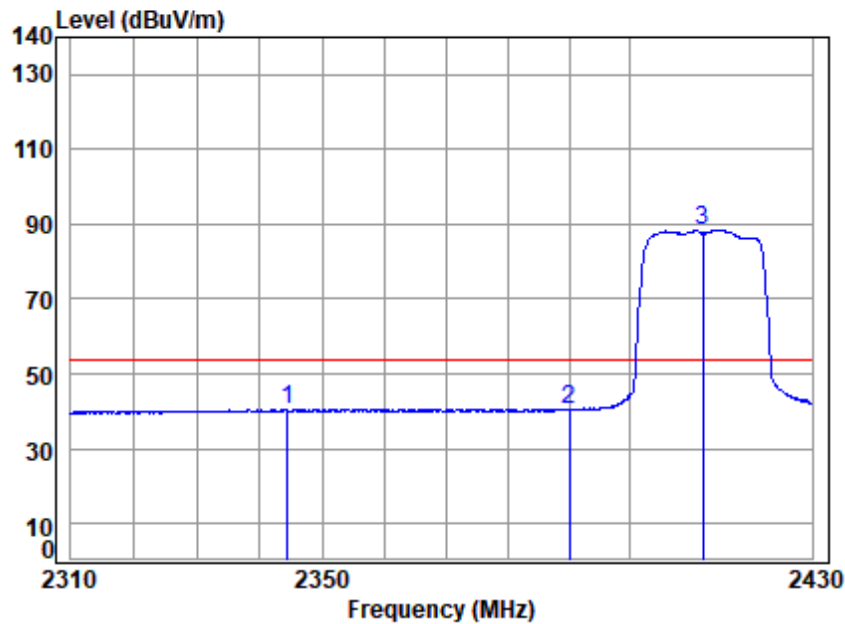


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03291AT\03292AT
 Mode : 2412 Band edge
 : 2.4G WIFI 11AX20

		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	2372.002	16.11	29.10	32.79	41.01	53.43	74.00	-20.57	peak
2	2390.000	16.13	29.10	32.78	39.21	51.66	74.00	-22.34	peak
3 p	2412.000	16.17	29.05	32.77	88.77	101.22	74.00	27.22	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11AX20

		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	2344.533	16.06	29.02	32.80	28.40	40.68	54.00	-13.32	Average
2	2390.000	16.13	29.10	32.78	27.81	40.26	54.00	-13.74	Average
3 q	2412.000	16.17	29.05	32.77	76.13	88.58	54.00	34.58	Average



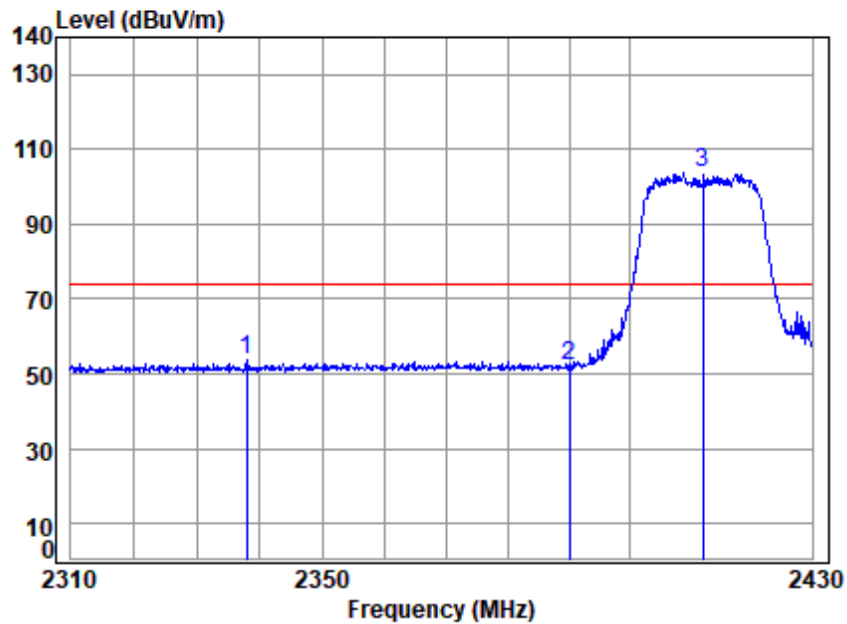
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

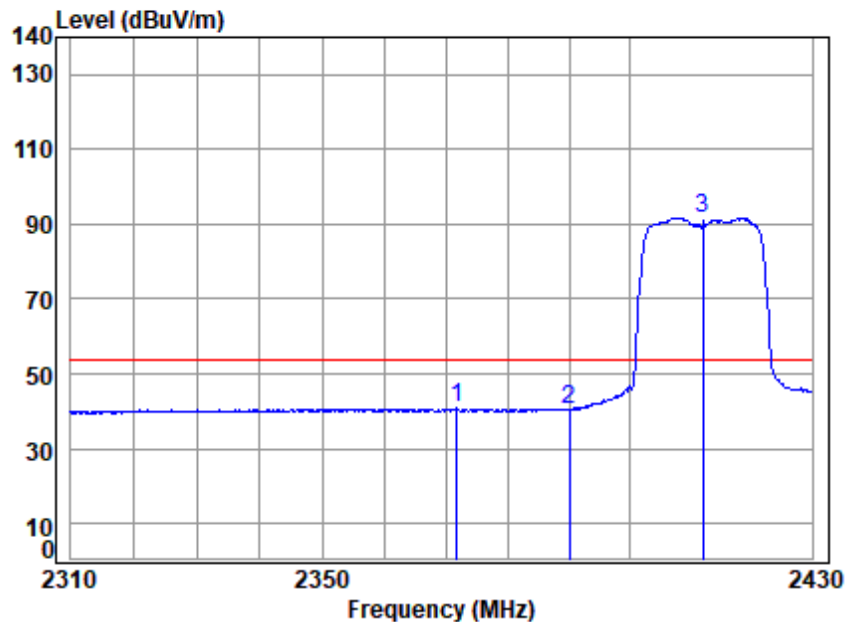


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11AX20

		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	2337.893	16.05	28.93	32.81	41.53	53.70	74.00	-20.30	Peak
2	2390.000	16.13	29.10	32.78	39.56	52.01	74.00	-21.99	Peak
3 p	2412.000	16.17	29.05	32.77	91.20	103.65	74.00	29.65	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

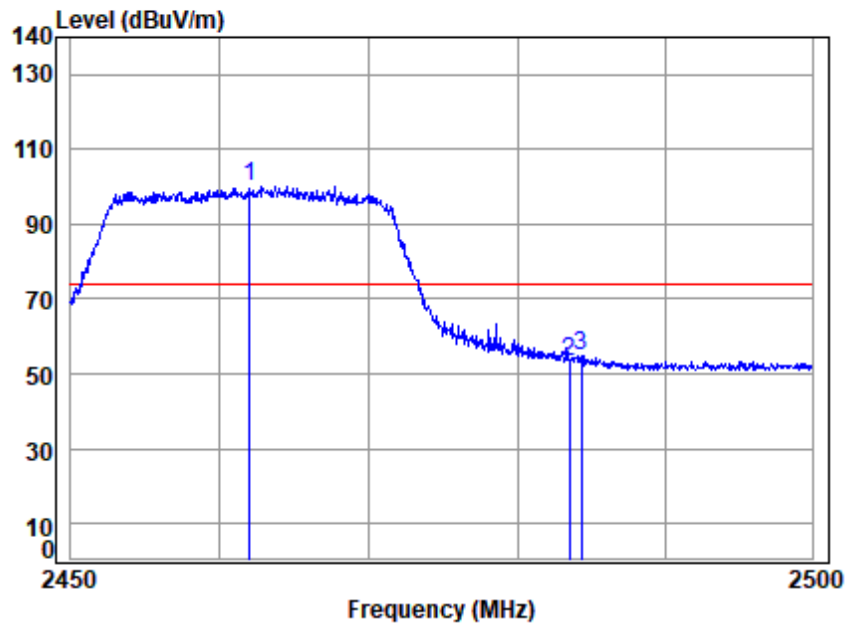


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 Band edge
: 2.4G WIFI 11AX20

		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	2371.761	16.11	29.10	32.79	28.34	40.76	54.00	-13.24	Average
2	2390.000	16.13	29.10	32.78	28.10	40.55	54.00	-13.45	Average
3 q	2412.000	16.17	29.05	32.77	79.27	91.72	54.00	37.72	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

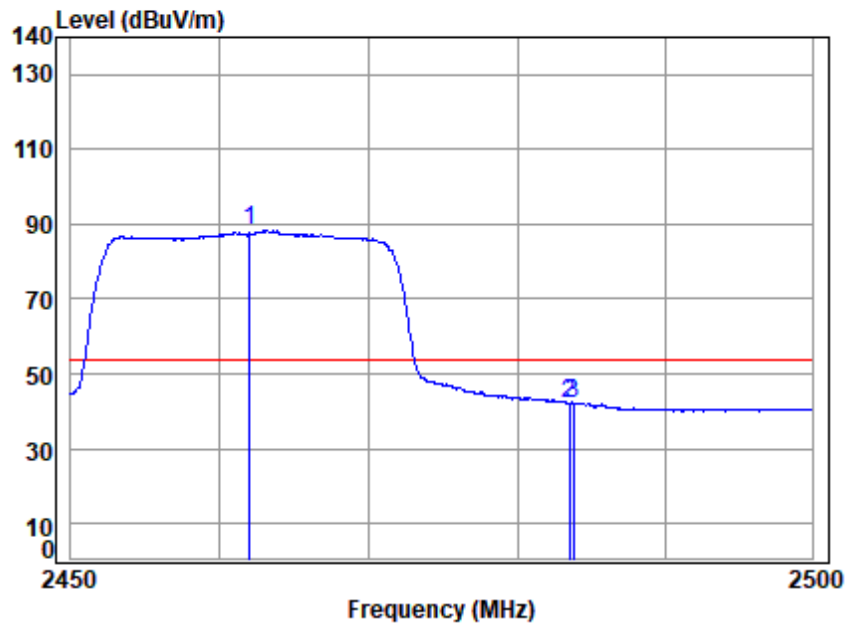


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11AX20

		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 p	2462.000	16.24	28.90	32.74	87.92	100.32	74.00	26.32 peak
2	2483.500	16.28	28.90	32.73	40.57	53.02	74.00	-20.98 peak
3	2484.342	16.28	28.90	32.73	42.32	54.77	74.00	-19.23 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

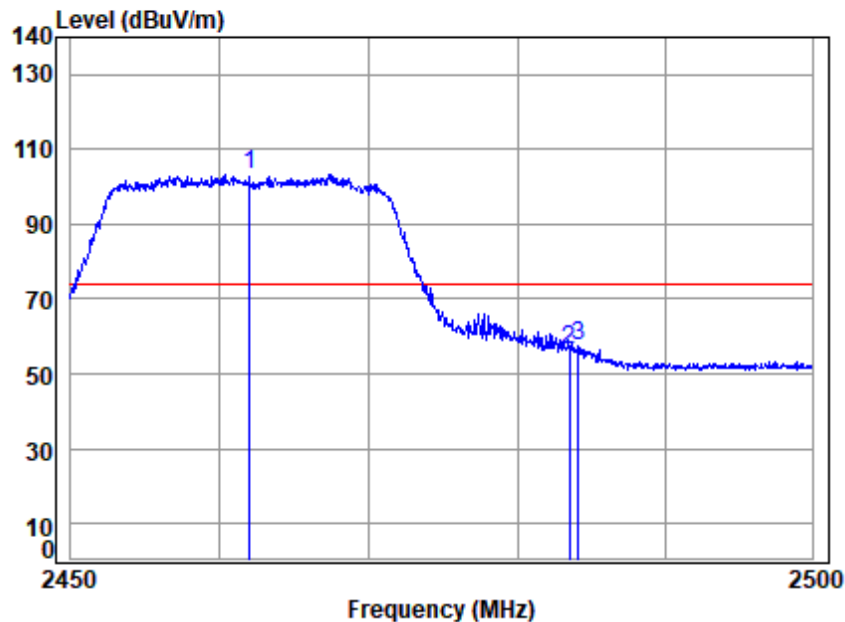


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11AX20

		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 q	2462.000	16.24	28.90	32.74	75.86	88.26	54.00	34.26	Average
2	2483.500	16.28	28.90	32.73	29.79	42.24	54.00	-11.76	Average
3	2483.790	16.28	28.90	32.73	29.87	42.32	54.00	-11.68	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

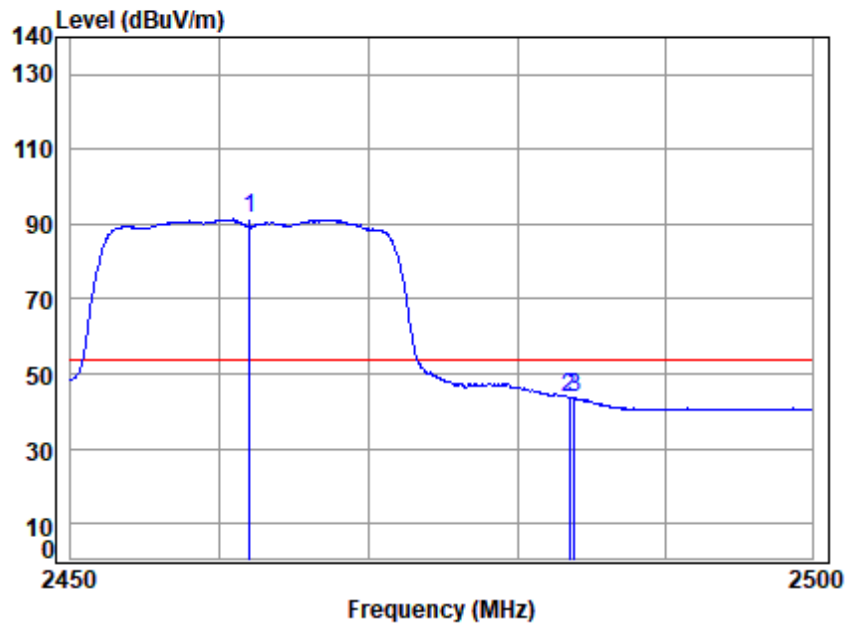


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11AX20

		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 p	2462.000	16.24	28.90	32.74	91.01	103.41	74.00	29.41	Peak
2	2483.500	16.28	28.90	32.73	43.95	56.40	74.00	-17.60	Peak
3	2484.141	16.28	28.90	32.73	44.80	57.25	74.00	-16.75	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

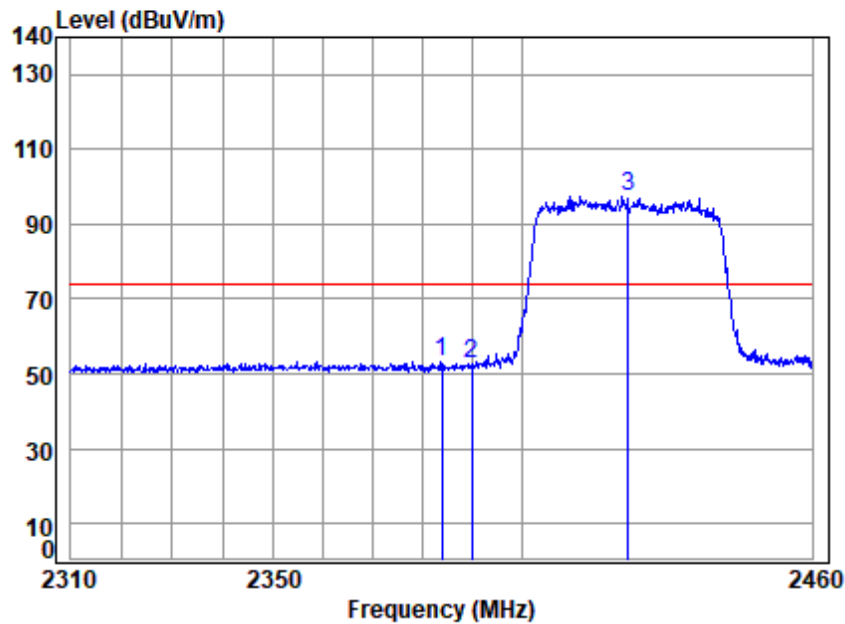


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 Band edge
: 2.4G WIFI 11AX20

		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 q	2462.000	16.24	28.90	32.74	78.90	91.30	54.00	37.30	Average
2	2483.500	16.28	28.90	32.73	31.33	43.78	54.00	-10.22	Average
3	2483.840	16.28	28.90	32.73	31.23	43.68	54.00	-10.32	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

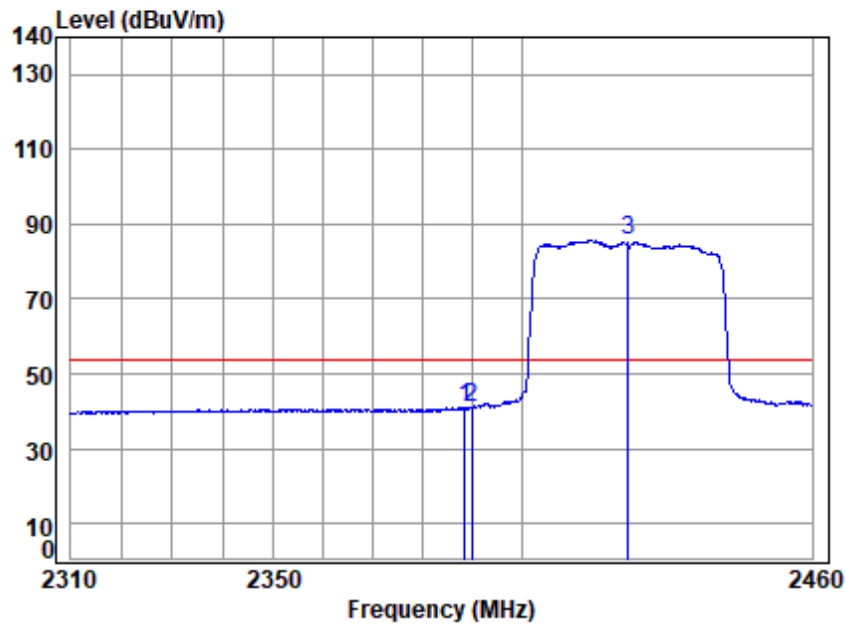


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2422 Band edge
: 2.4G WIFI 11AX40

		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	2383.821	16.13	29.10	32.78	40.69	53.14	74.00	-20.86	peak
2	2390.000	16.13	29.10	32.78	40.13	52.58	74.00	-21.42	peak
3 p	2422.000	16.18	29.01	32.76	85.07	97.50	74.00	23.50	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

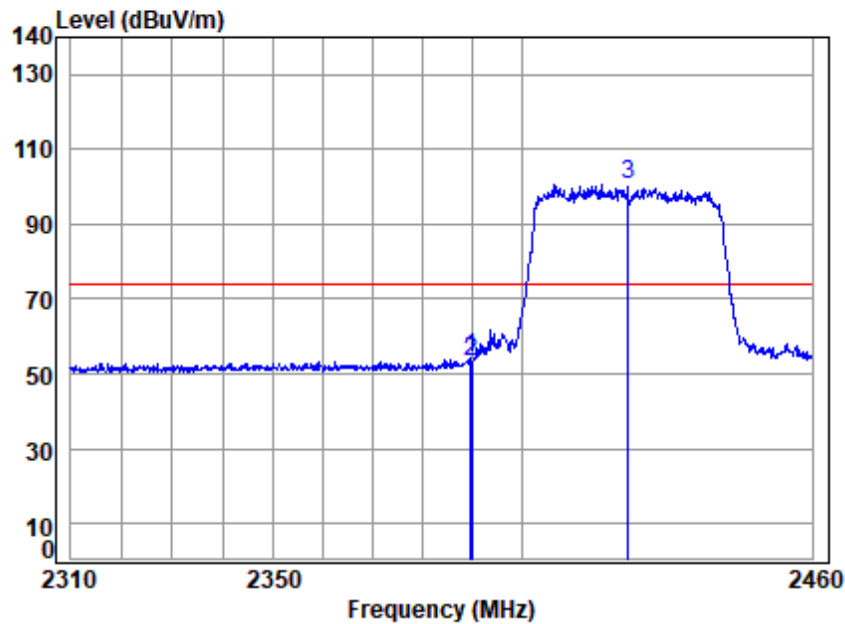


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2422 Band edge
: 2.4G WIFI 11AX40

		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	2388.625	16.13	29.10	32.78	28.61	41.06	54.00	-12.94	Average
2	2390.000	16.13	29.10	32.78	28.71	41.16	54.00	-12.84	Average
3 q	2422.000	16.18	29.01	32.76	73.21	85.64	54.00	31.64	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

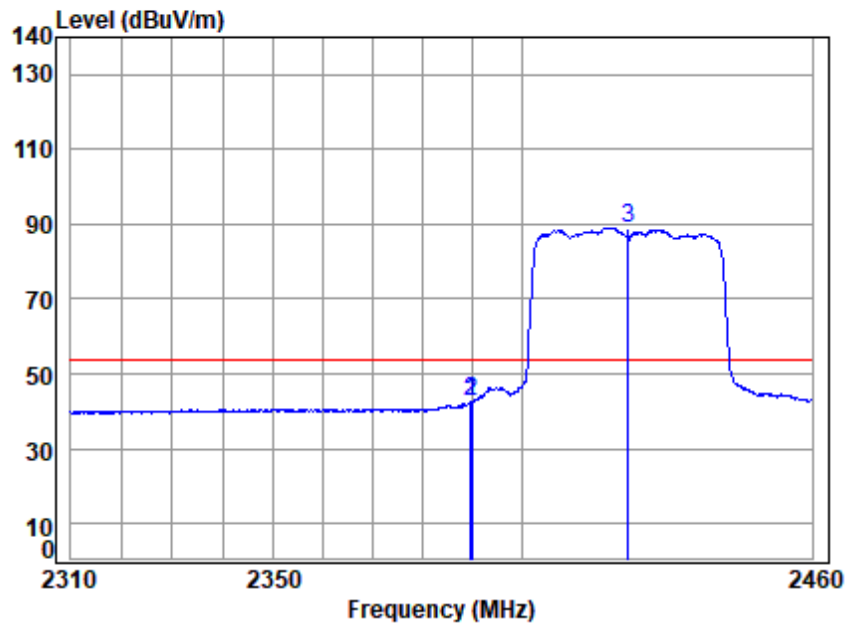


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2422 Band edge
: 2.4G WIFI 11AX40

		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	16.13	29.10	32.78	42.00	54.45	74.00	-19.55 Peak
2	2390.000	16.13	29.10	32.78	41.00	53.45	74.00	-20.55 Peak
3 p	2422.000	16.18	29.01	32.76	88.43	100.86	74.00	26.86 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

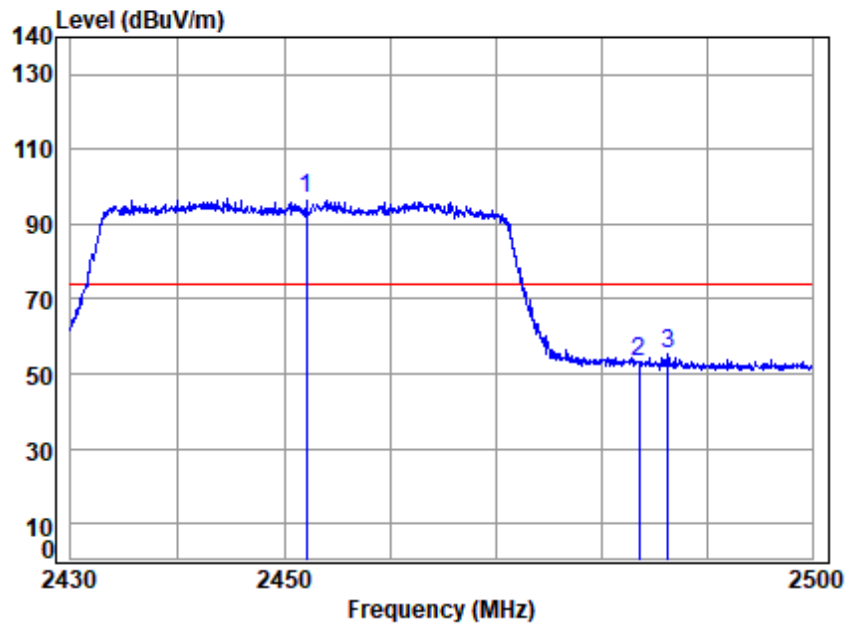


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2422 Band edge
: 2.4G WIFI 11AX40

		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	16.13	29.10	32.78	30.02	42.47	54.00	-11.53	Average
2	2390.000	16.13	29.10	32.78	30.07	42.52	54.00	-11.48	Average
3 q	2422.000	16.18	29.01	32.76	76.70	89.13	54.00	35.13	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

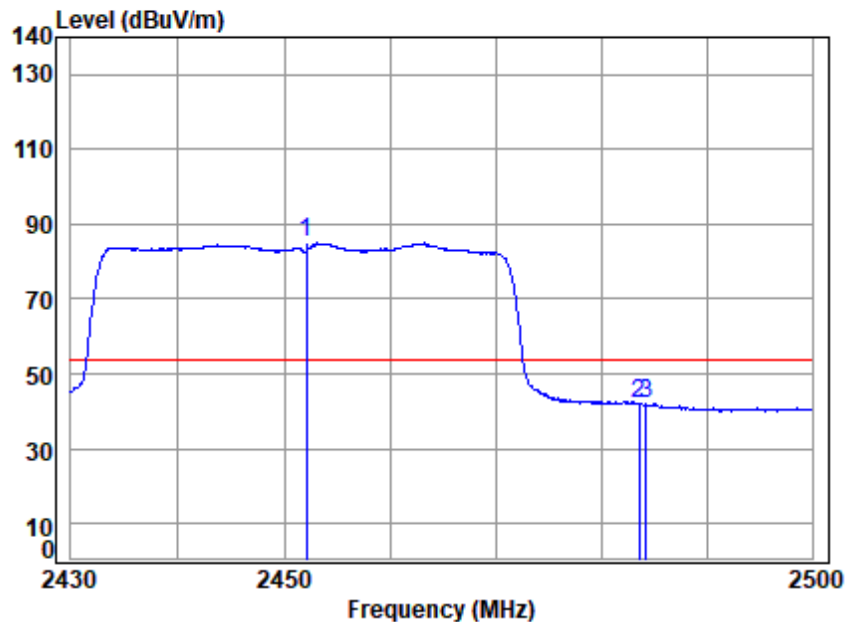


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2452 Band edge
: 2.4G WIFI 11AX40

		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 p	2452.000	16.23	28.90	32.75	84.31	96.69	74.00	22.69	peak
2	2483.500	16.28	28.90	32.73	41.03	53.48	74.00	-20.52	peak
3	2486.264	16.28	28.90	32.73	42.83	55.28	74.00	-18.72	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

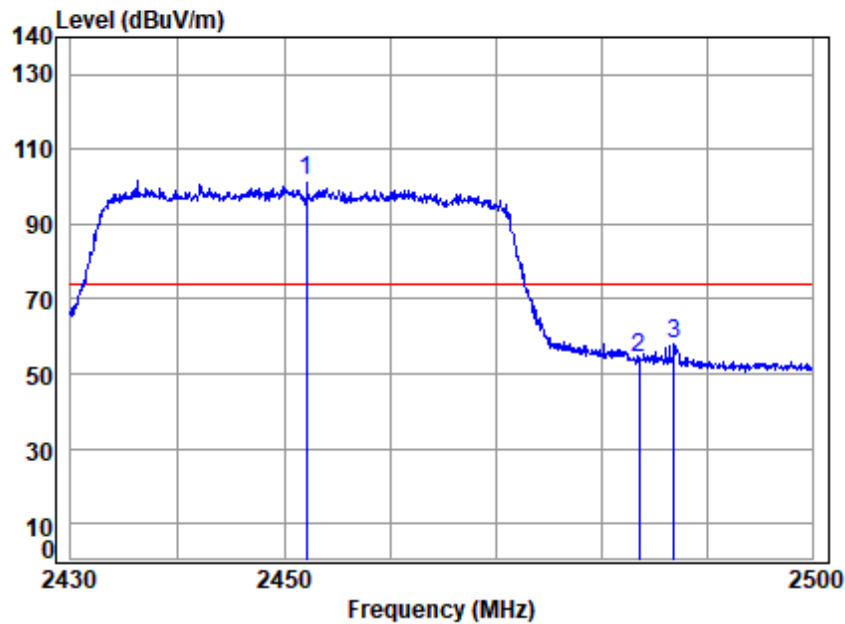


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2452 Band edge
: 2.4G WIFI 11AX40

		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 q 2452.000	16.23	28.90	32.75	72.65	85.03	54.00	31.03	Average
2 2483.500	16.28	28.90	32.73	29.46	41.91	54.00	-12.09	Average
3 2484.147	16.28	28.90	32.73	29.55	42.00	54.00	-12.00	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

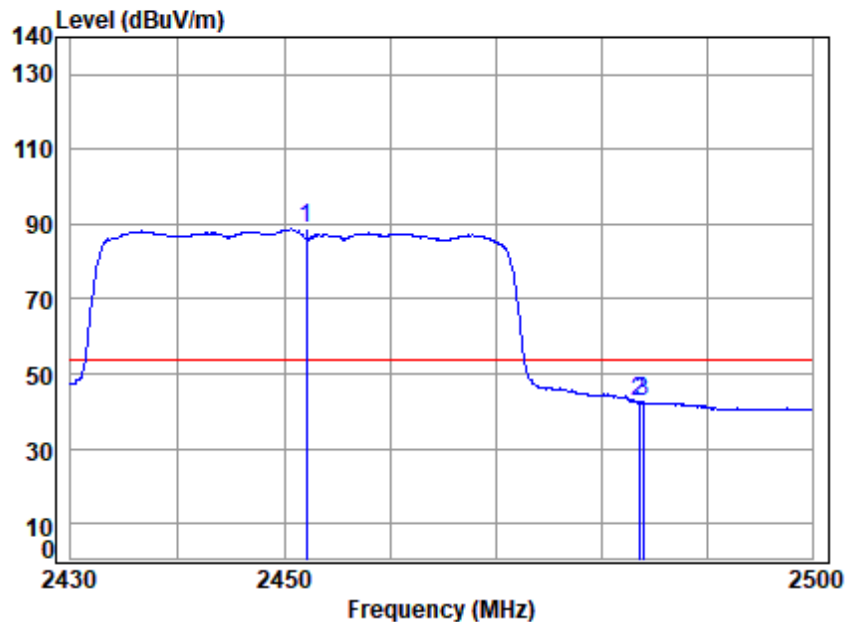


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2452 Band edge
: 2.4G WIFI 11AX40

		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 p	2452.000	16.23	28.90	32.75	89.27	101.65	74.00	27.65	Peak
2	2483.500	16.28	28.90	32.73	41.70	54.15	74.00	-19.85	Peak
3	2486.829	16.28	28.90	32.73	45.40	57.85	74.00	-16.15	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2452 Band edge
: 2.4G WIFI 11AX40

		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 q	2452.000	16.23	28.90	32.75	76.30	88.68	54.00	34.68	Average
2	2483.500	16.28	28.90	32.73	30.13	42.58	54.00	-11.42	Average
3	2483.865	16.28	28.90	32.73	30.00	42.45	54.00	-11.55	Average



7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

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: 23.4 °C

Humidity: 42.5 % RH

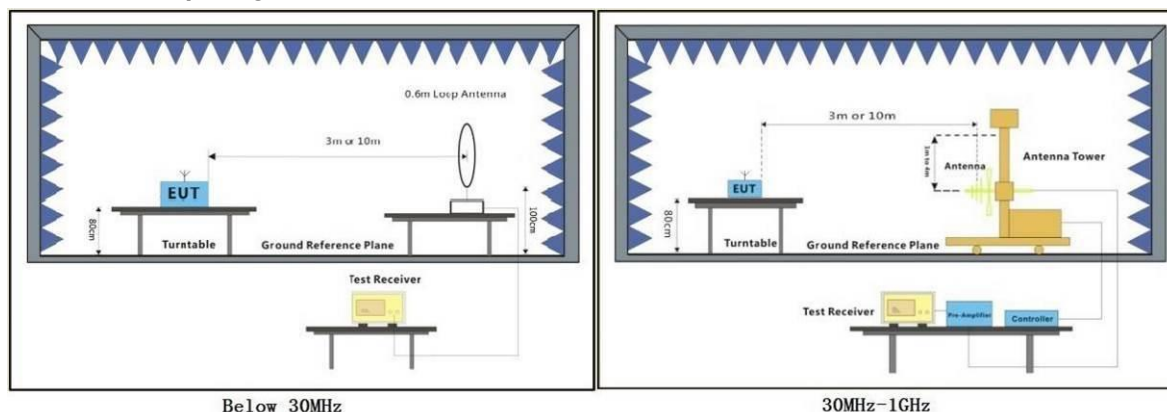
Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.3.3 Test Setup Diagram



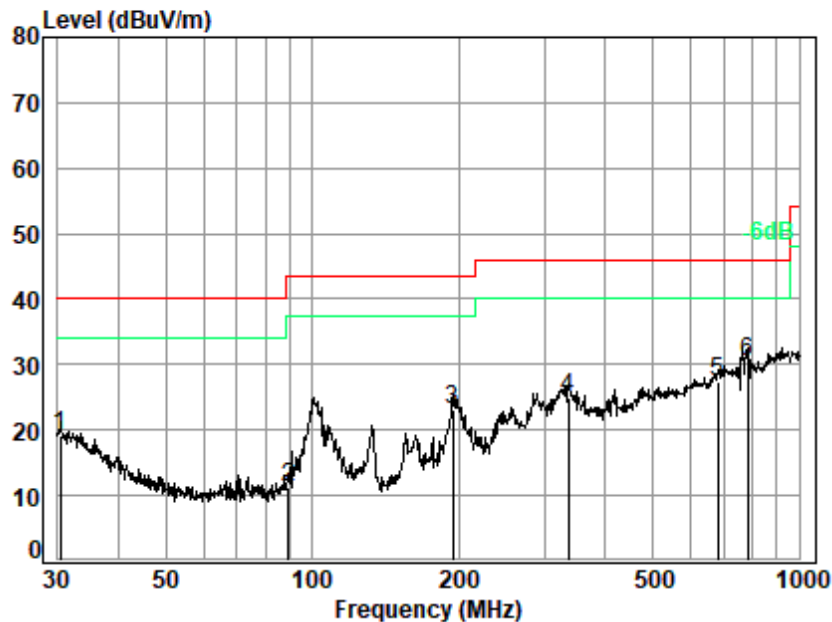
7.3.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

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

Test Mode: 03; Polarity: Horizontal

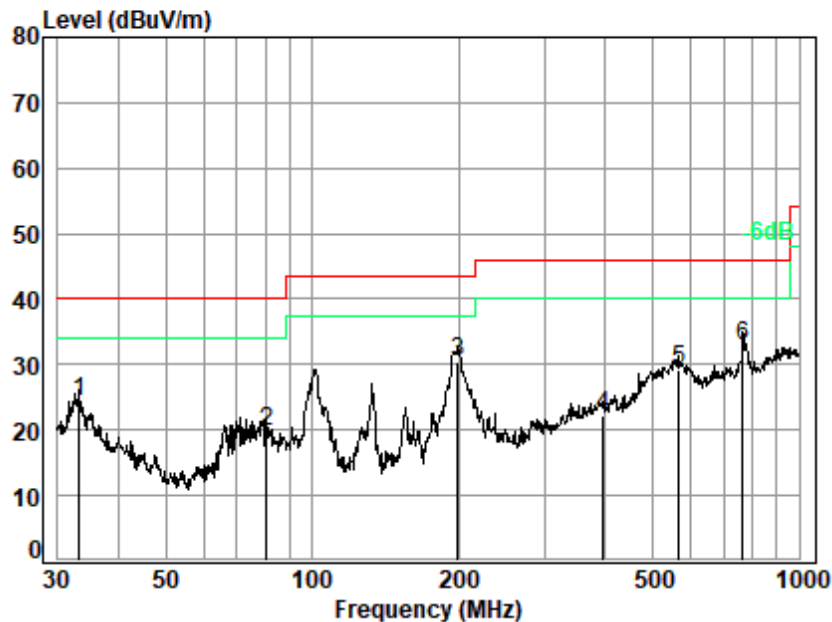


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03291AT/03292AT
Test Mode: 03

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.424	21.00	0.74	27.65	25.21	19.30	40.00	-20.70 QP
2	89.276	11.65	1.17	27.60	26.00	11.22	43.50	-32.28 QP
3	194.453	14.15	1.68	27.79	35.09	23.13	43.50	-20.37 QP
4	336.035	18.88	2.26	27.60	31.49	25.03	46.00	-20.97 QP
5	679.960	25.86	3.35	27.88	25.94	27.27	46.00	-18.73 QP
6 q	782.345	27.08	3.64	27.64	27.38	30.46	46.00	-15.54 QP



Test Mode: 03; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03291AT/03292AT

Test Mode: 03

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	33.211	19.78	0.77	27.65	31.33	24.23	40.00	-15.77 QP
2	80.644	10.50	1.11	27.61	35.85	19.85	40.00	-20.15 QP
3 q	199.286	14.08	1.70	27.80	42.58	30.56	43.50	-12.94 QP
4	396.242	20.68	2.48	27.74	26.90	22.32	46.00	-23.68 QP
5	566.622	23.50	3.01	28.05	30.81	29.27	46.00	-16.73 QP
6	766.057	26.59	3.60	27.68	30.45	32.96	46.00	-13.04 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 (2020) 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: 23.5 °C

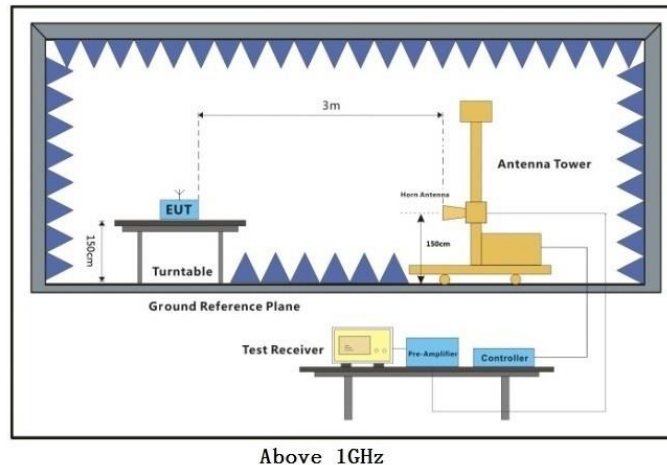
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

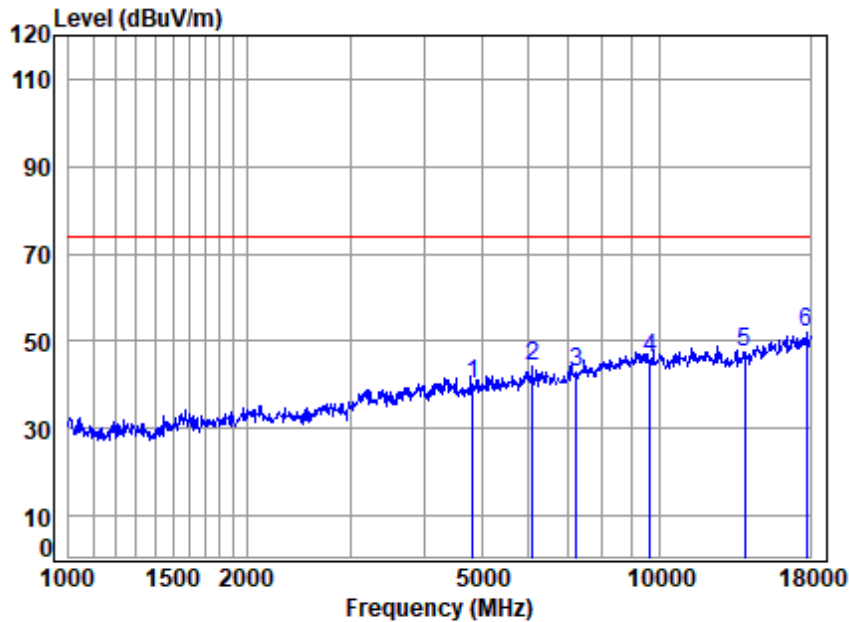
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was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



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

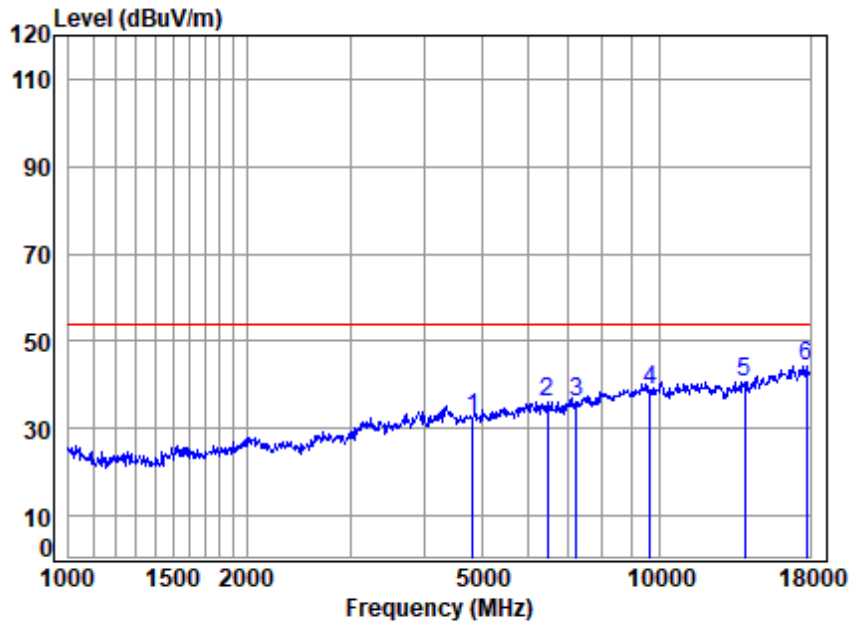


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

		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	4824.000	7.43	34.40	54.22	52.36	39.97	74.00	-34.03 peak
2	6088.991	8.92	35.08	53.11	53.56	44.45	74.00	-29.55 peak
3	7236.000	8.49	35.70	53.18	51.89	42.90	74.00	-31.10 peak
4	9648.000	10.72	37.50	53.34	51.10	45.98	74.00	-28.02 peak
5	13957.530	10.97	39.62	52.91	49.80	47.48	74.00	-26.52 peak
6	p17741.740	11.35	43.84	52.53	49.14	51.80	74.00	-22.20 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

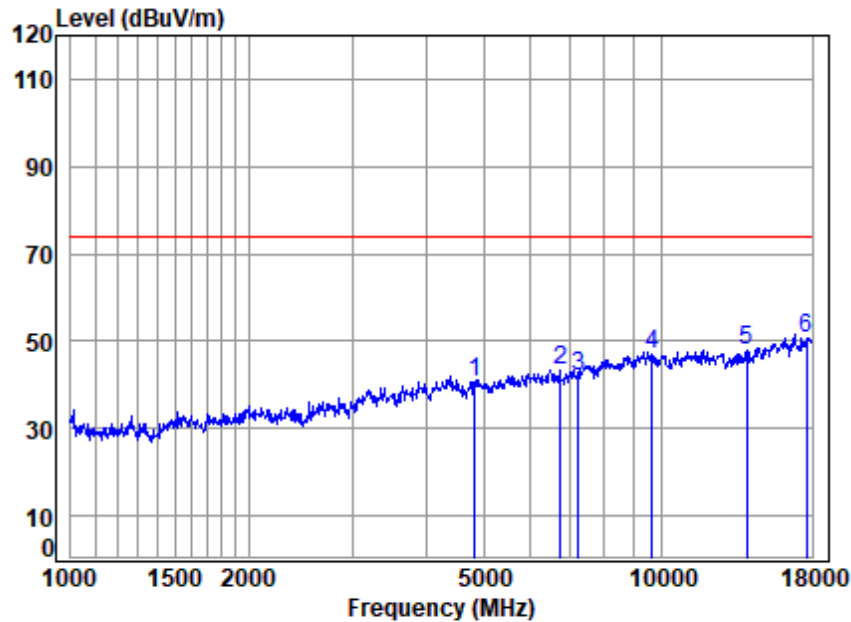


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

	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	4824.000	7.43	34.40	54.22	44.89	32.50	54.00	-21.50 Average
2	6470.026	8.88	35.54	53.15	44.91	36.18	54.00	-17.82 Average
3	7236.000	8.49	35.70	53.18	44.92	35.93	54.00	-18.07 Average
4	9648.000	10.72	37.50	53.34	44.08	38.96	54.00	-15.04 Average
5	13957.530	10.97	39.62	52.91	43.03	40.71	54.00	-13.29 Average
6	17741.740	11.35	43.84	52.53	41.59	44.25	54.00	-9.75 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

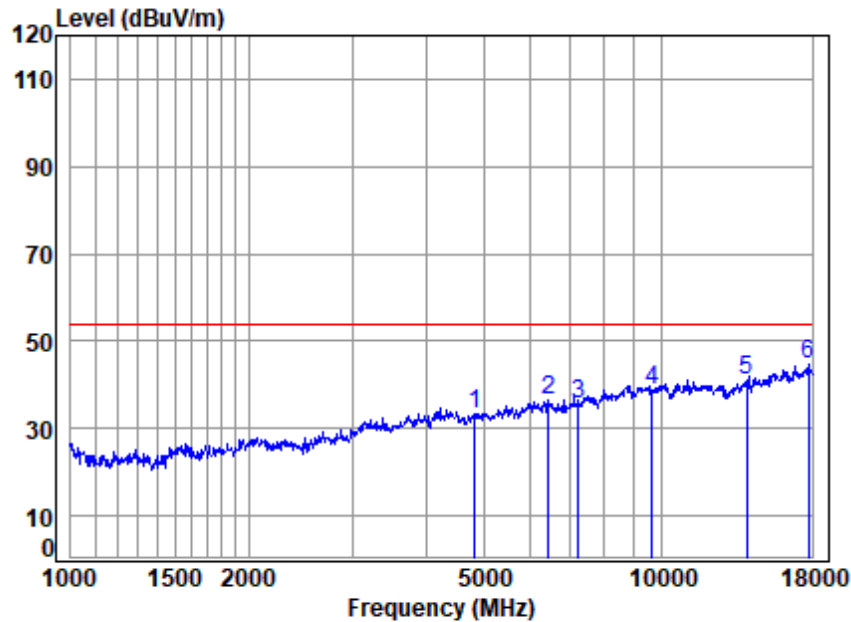


Site : chamber
 Condition: 3m VERTICAL
 Job No : 03291AT\03292AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11B

	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	4824.000	7.43	34.40	54.22	53.17	40.78	74.00 -33.22 peak
2	6737.207	8.73	35.20	53.18	52.81	43.56	74.00 -30.44 peak
3	7236.000	8.49	35.70	53.18	51.00	42.01	74.00 -31.99 peak
4	9648.000	10.72	37.50	53.34	51.96	46.84	74.00 -27.16 peak
5	13957.530	10.97	39.62	52.91	50.36	48.04	74.00 -25.96 peak
6	p17588.560	11.25	43.58	52.60	48.40	50.63	74.00 -23.37 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

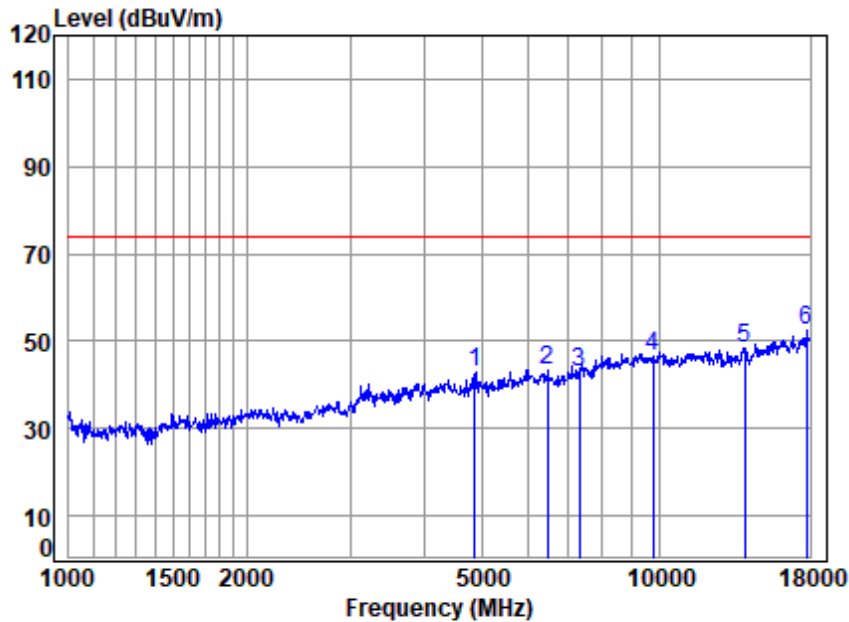


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

	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	4824.000	7.43	34.40	54.22	45.90	33.51	54.00 -20.49 Average
2	6451.353	8.88	35.50	53.15	45.27	36.50	54.00 -17.50 Average
3	7236.000	8.49	35.70	53.18	44.56	35.57	54.00 -18.43 Average
4	9648.000	10.72	37.50	53.34	43.98	38.86	54.00 -15.14 Average
5	13957.530	10.97	39.62	52.91	43.43	41.11	54.00 -12.89 Average
6	q17741.740	11.35	43.84	52.53	41.84	44.50	54.00 -9.50 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

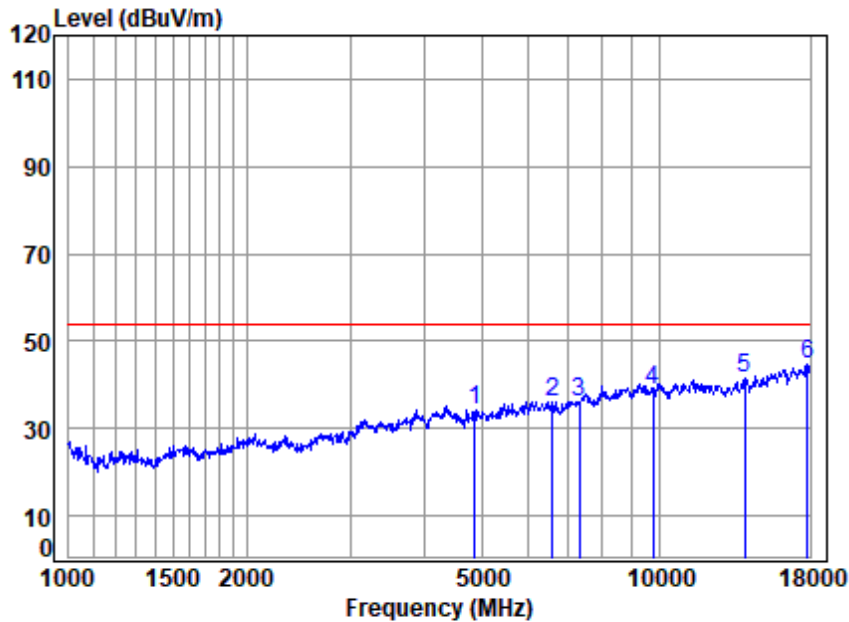


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

		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	4874.000	7.47	34.60	54.21	55.21	43.07	74.00	-30.93 peak
2	6470.026	8.88	35.54	53.15	52.14	43.41	74.00	-30.59 peak
3	7311.000	8.47	35.70	53.17	51.76	42.76	74.00	-31.24 peak
4	9748.000	10.69	37.40	53.30	51.66	46.45	74.00	-27.55 peak
5	13957.530	10.97	39.62	52.91	50.64	48.32	74.00	-25.68 peak
6	p17741.740	11.35	43.84	52.53	49.76	52.42	74.00	-21.58 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

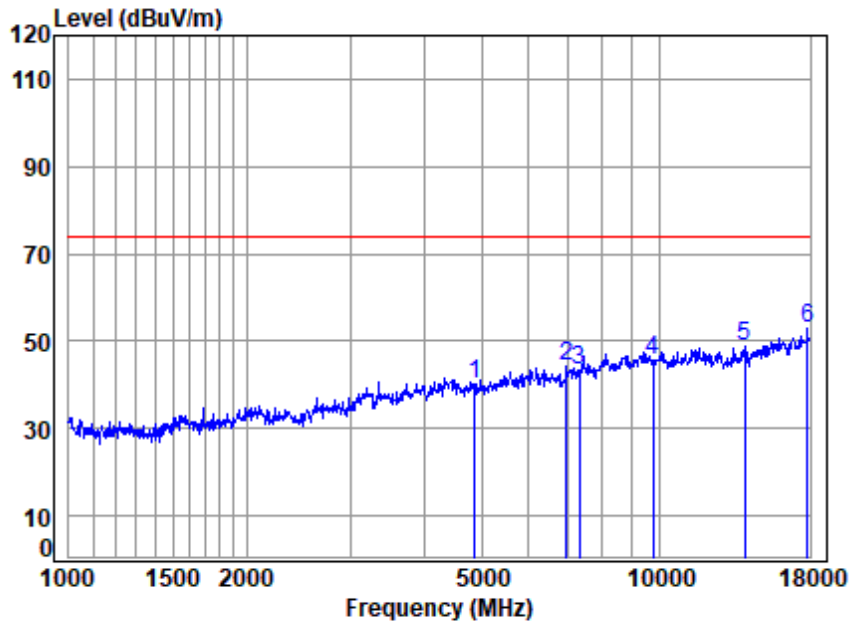


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

	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	4874.000	7.47	34.60	54.21	46.16	34.02	54.00 -19.98 Average
2	6583.209	8.83	35.37	53.16	45.20	36.24	54.00 -17.76 Average
3	7311.000	8.47	35.70	53.17	45.07	36.07	54.00 -17.93 Average
4	9748.000	10.69	37.40	53.30	44.21	39.00	54.00 -15.00 Average
5	13957.530	10.97	39.62	52.91	44.06	41.74	54.00 -12.26 Average
6	17844.590	11.41	43.90	52.48	42.11	44.94	54.00 -9.06 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

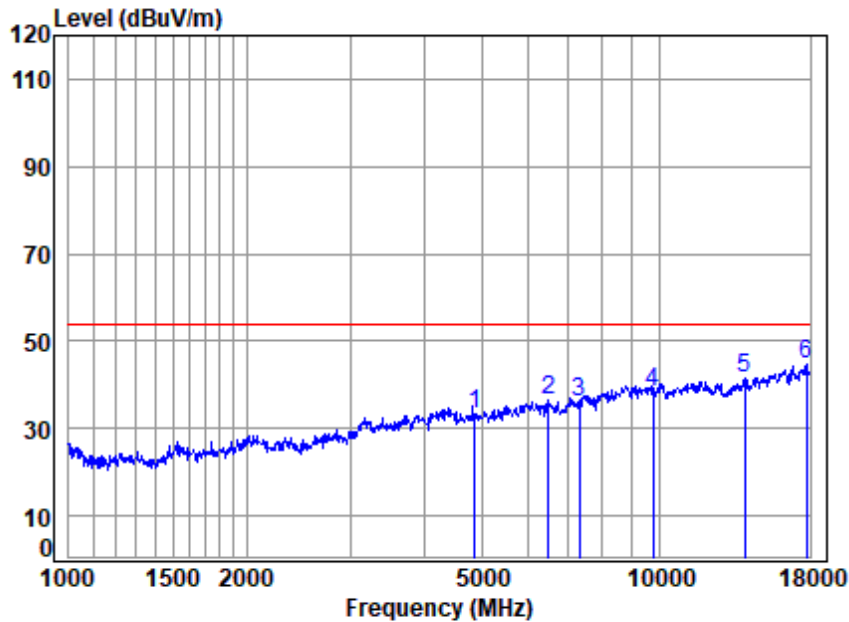


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

		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	4874.000	7.47	34.60	54.21	52.34	40.20	74.00	-33.80 peak
2	6954.852	8.59	35.79	53.20	52.94	44.12	74.00	-29.88 peak
3	7311.000	8.47	35.70	53.17	52.42	43.42	74.00	-30.58 peak
4	9748.000	10.69	37.40	53.30	50.90	45.69	74.00	-28.31 peak
5	13957.530	10.97	39.62	52.91	51.02	48.70	74.00	-25.30 peak
6	p17793.090	11.38	43.89	52.50	50.24	53.01	74.00	-20.99 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

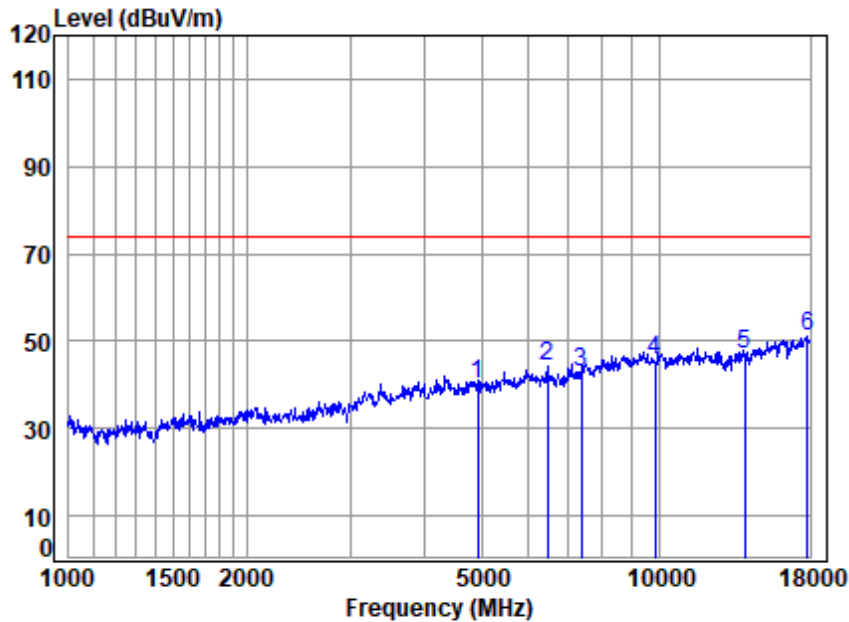


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

	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	4874.000	7.47	34.60	54.21	45.37	33.23	54.00 -20.77 Average
2	6488.754	8.88	35.58	53.15	45.03	36.34	54.00 -17.66 Average
3	7311.000	8.47	35.70	53.17	45.09	36.09	54.00 -17.91 Average
4	9748.000	10.69	37.40	53.30	43.65	38.44	54.00 -15.56 Average
5	13957.530	10.97	39.62	52.91	43.64	41.32	54.00 -12.68 Average
6	17741.740	11.35	43.84	52.53	42.19	44.85	54.00 -9.15 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

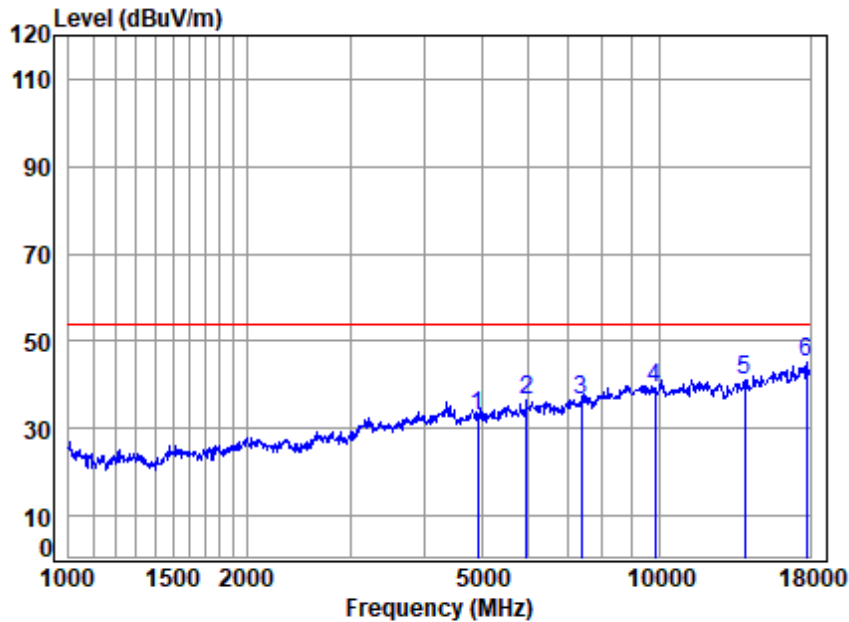


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

		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	4924.000	7.50	34.65	54.21	52.03	39.97	74.00	-34.03 peak
2	6470.026	8.88	35.54	53.15	52.82	44.09	74.00	-29.91 peak
3	7386.000	8.44	35.77	53.16	52.03	43.08	74.00	-30.92 peak
4	9848.000	10.66	37.20	53.26	50.99	45.59	74.00	-28.41 peak
5	13957.530	10.97	39.62	52.91	49.40	47.08	74.00	-26.92 peak
6	p17844.590	11.41	43.90	52.48	48.42	51.25	74.00	-22.75 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

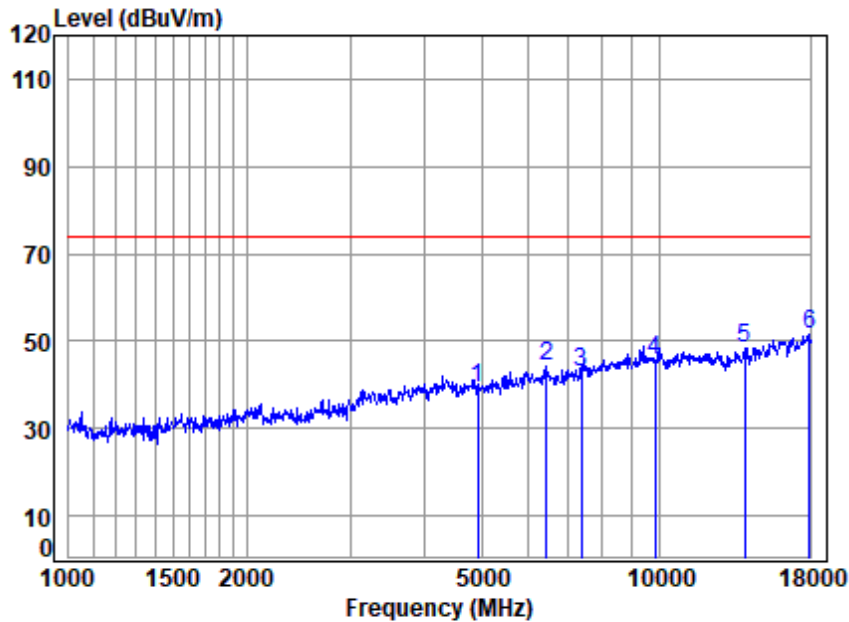


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

		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	4924.000	7.50	34.65	54.21	44.75	32.69	54.00	-21.31 Average
2	5949.811	8.86	34.70	53.15	45.97	36.38	54.00	-17.62 Average
3	7386.000	8.44	35.77	53.16	45.35	36.40	54.00	-17.60 Average
4	9848.000	10.66	37.20	53.26	44.63	39.23	54.00	-14.77 Average
5	13957.530	10.97	39.62	52.91	43.58	41.26	54.00	-12.74 Average
6	17741.740	11.35	43.84	52.53	42.42	45.08	54.00	-8.92 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

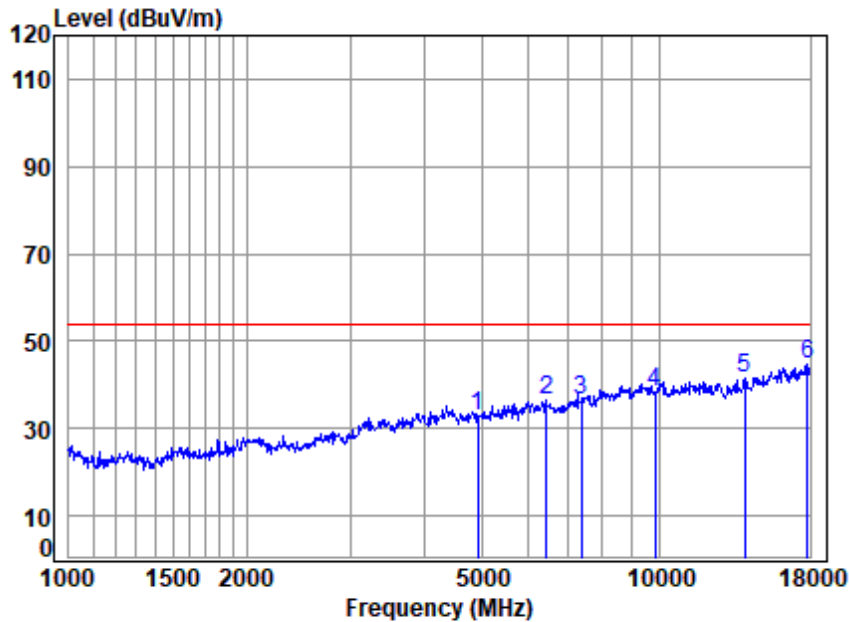


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	4924.000	7.50	34.65	54.21	51.26	39.20	74.00	-34.80 peak
2	6432.732	8.89	35.40	53.15	52.95	44.09	74.00	-29.91 peak
3	7386.000	8.44	35.77	53.16	51.83	42.88	74.00	-31.12 peak
4	9848.000	10.66	37.20	53.26	51.15	45.75	74.00	-28.25 peak
5	13957.530	10.97	39.62	52.91	50.51	48.19	74.00	-25.81 peak
6	p17948.050	11.47	44.09	52.43	48.32	51.45	74.00	-22.55 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

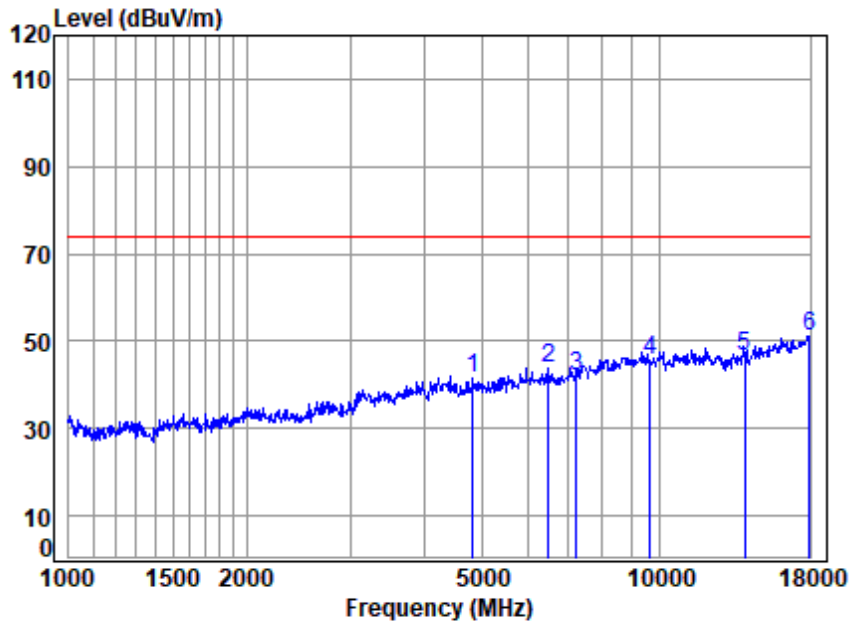


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

		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	4924.000	7.50	34.65	54.21	45.12	33.06	54.00	-20.94 Average
2	6432.732	8.89	35.40	53.15	45.24	36.38	54.00	-17.62 Average
3	7386.000	8.44	35.77	53.16	45.58	36.63	54.00	-17.37 Average
4	9848.000	10.66	37.20	53.26	43.65	38.25	54.00	-15.75 Average
5	13957.530	10.97	39.62	52.91	43.78	41.46	54.00	-12.54 Average
6	17793.090	11.38	43.89	52.50	41.79	44.56	54.00	-9.44 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

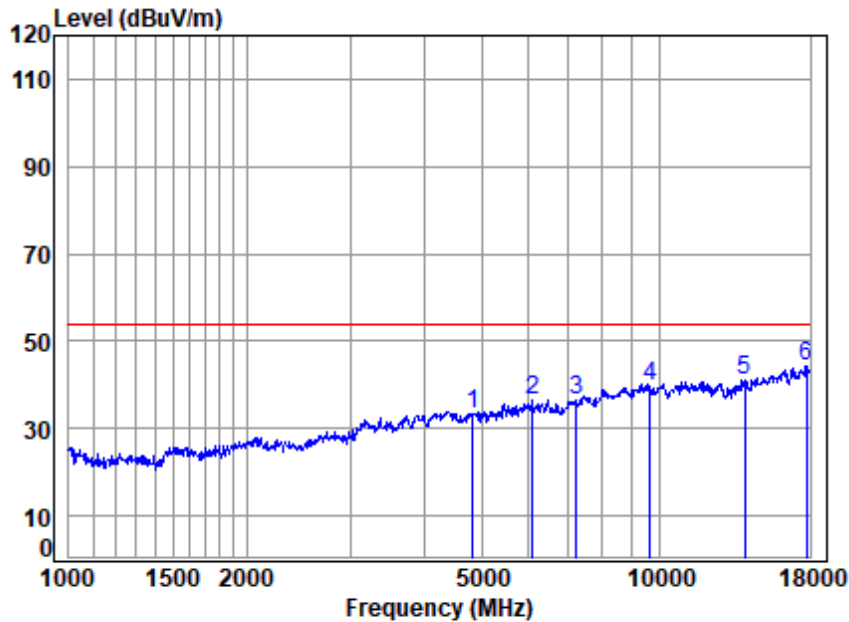


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

		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	4824.000	7.43	34.40	54.22	53.82	41.43	74.00	-32.57 peak
2	6488.754	8.88	35.58	53.15	52.53	43.84	74.00	-30.16 peak
3	7236.000	8.49	35.70	53.18	51.15	42.16	74.00	-31.84 peak
4	9648.000	10.72	37.50	53.34	50.67	45.55	74.00	-28.45 peak
5	13957.530	10.97	39.62	52.91	49.07	46.75	74.00	-27.25 peak
6	p17948.050	11.47	44.09	52.43	48.13	51.26	74.00	-22.74 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

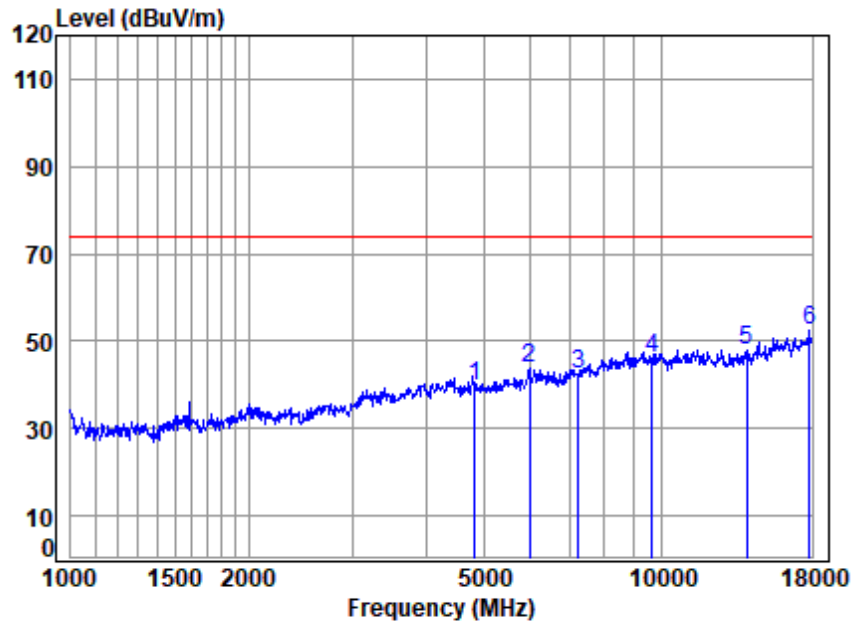


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

	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	4824.000	7.43	34.40	54.22	45.50	33.11	54.00	-20.89 Average
2	6106.616	8.92	35.07	53.11	45.55	36.43	54.00	-17.57 Average
3	7236.000	8.49	35.70	53.18	45.38	36.39	54.00	-17.61 Average
4	9648.000	10.72	37.50	53.34	44.85	39.73	54.00	-14.27 Average
5	13957.530	10.97	39.62	52.91	43.31	40.99	54.00	-13.01 Average
6	17741.740	11.35	43.84	52.53	41.79	44.45	54.00	-9.55 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

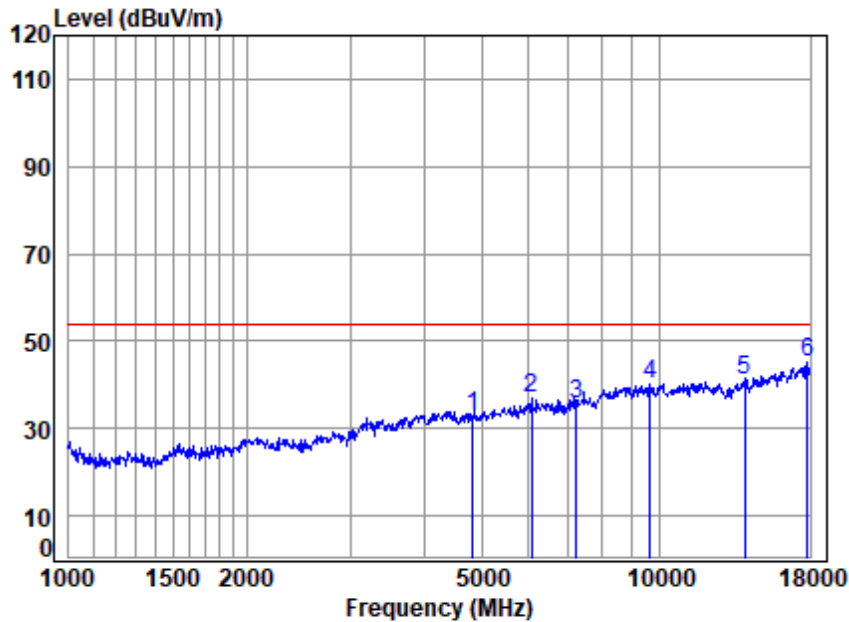


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	4824.000	7.43	34.40	54.22	52.21	39.82	74.00	-34.18 peak
2	5984.305	8.91	34.84	53.12	53.08	43.71	74.00	-30.29 peak
3	7236.000	8.49	35.70	53.18	51.20	42.21	74.00	-31.79 peak
4	9648.000	10.72	37.50	53.34	51.42	46.30	74.00	-27.70 peak
5	13957.530	10.97	39.62	52.91	50.20	47.88	74.00	-26.12 peak
6	p17793.090	11.38	43.89	52.50	49.55	52.32	74.00	-21.68 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

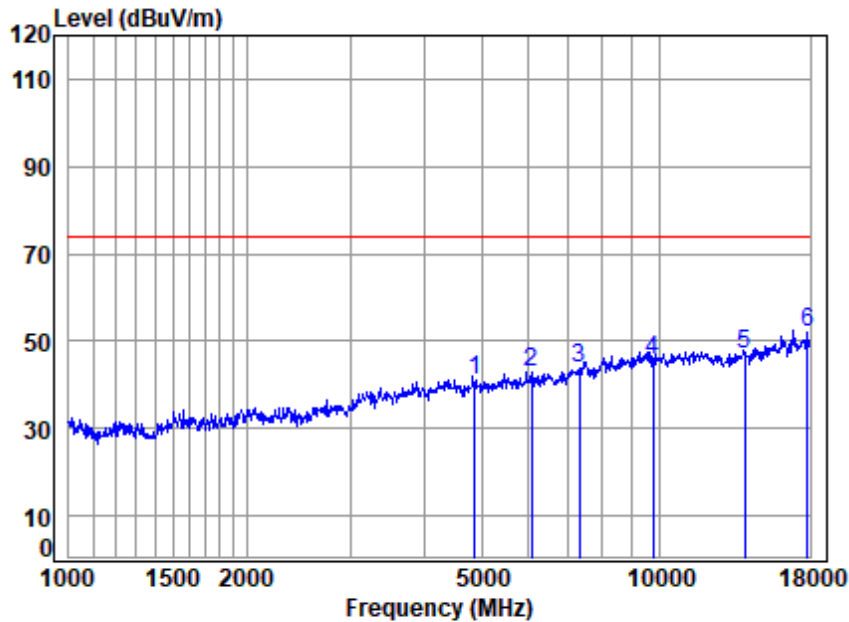


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

	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	4824.000	7.43	34.40	54.22	45.30	32.91	54.00	-21.09 Average
2	6071.417	8.92	35.04	53.11	45.88	36.73	54.00	-17.27 Average
3	7236.000	8.49	35.70	53.18	44.79	35.80	54.00	-18.20 Average
4	9648.000	10.72	37.50	53.34	45.05	39.93	54.00	-14.07 Average
5	13957.530	10.97	39.62	52.91	43.19	40.87	54.00	-13.13 Average
6	17844.590	11.41	43.90	52.48	42.21	45.04	54.00	-8.96 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

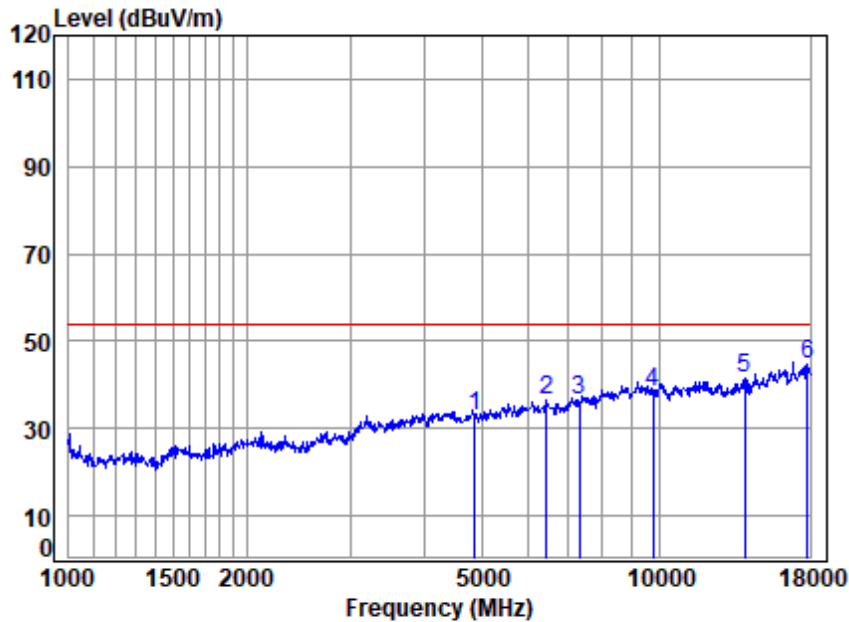


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

		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	4874.000	7.47	34.60	54.21	53.17	41.03	74.00	-32.97 peak
2	6071.417	8.92	35.04	53.11	52.23	43.08	74.00	-30.92 peak
3	7311.000	8.47	35.70	53.17	52.96	43.96	74.00	-30.04 peak
4	9748.000	10.69	37.40	53.30	50.97	45.76	74.00	-28.24 peak
5	13957.530	10.97	39.62	52.91	49.51	47.19	74.00	-26.81 peak
6	p17793.090	11.38	43.89	52.50	49.21	51.98	74.00	-22.02 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

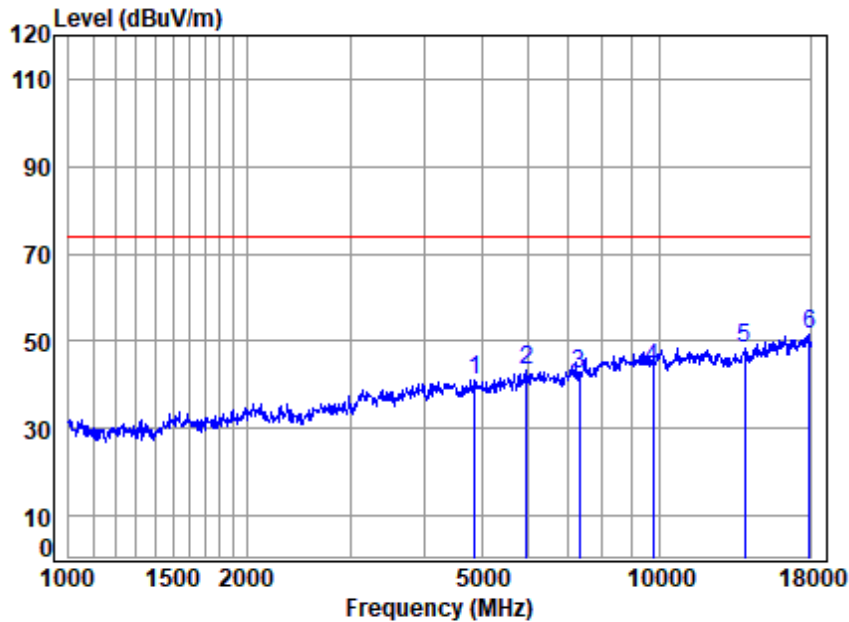


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

	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	4874.000	7.47	34.60	54.21	45.06	32.92	54.00	-21.08 Average
2	6451.353	8.88	35.50	53.15	45.17	36.40	54.00	-17.60 Average
3	7311.000	8.47	35.70	53.17	45.39	36.39	54.00	-17.61 Average
4	9748.000	10.69	37.40	53.30	43.65	38.44	54.00	-15.56 Average
5	13957.530	10.97	39.62	52.91	43.86	41.54	54.00	-12.46 Average
6	17793.090	11.38	43.89	52.50	42.08	44.85	54.00	-9.15 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

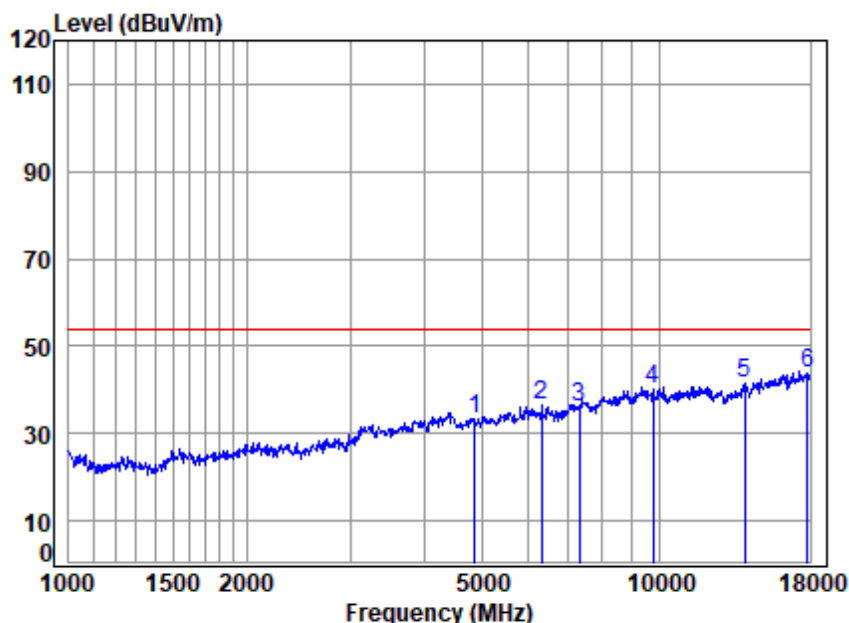
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4874.000	7.47	34.60	54.21	53.07	40.93	74.00 -33.07 peak
2	5967.033	8.88	34.77	53.13	52.69	43.21	74.00 -30.79 peak
3	7311.000	8.47	35.70	53.17	51.48	42.48	74.00 -31.52 peak
4	9748.000	10.69	37.40	53.30	49.12	43.91	74.00 -30.09 peak
5	13957.530	10.97	39.62	52.91	50.83	48.51	74.00 -25.49 peak
6	p17948.050	11.47	44.09	52.43	48.26	51.39	74.00 -22.61 peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



```
Site      : chamber
Condition: 3m VERTICAL
Job No    : 03291AT\03292AT
Mode      : 2437 TX RSE
           : 2.4G WIFI 11N20
```

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	7.47	34.60	54.21	45.41	33.27	54.00	-20.73	Average
2	6322.136	8.90	34.96	53.13	45.67	36.40	54.00	-17.60	Average
3	7311.000	8.47	35.70	53.17	44.88	35.88	54.00	-18.12	Average
4	9748.000	10.69	37.40	53.30	45.42	40.21	54.00	-13.79	Average
5	13957.530	10.97	39.62	52.91	43.88	41.56	54.00	-12.44	Average
6	17793.090	11.38	43.89	52.50	41.04	43.81	54.00	-10.19	Average



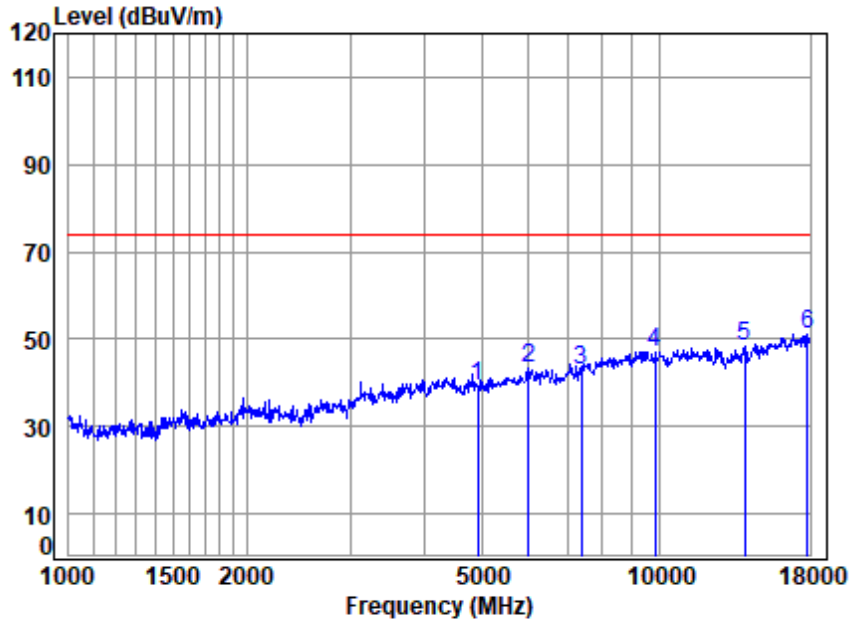
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

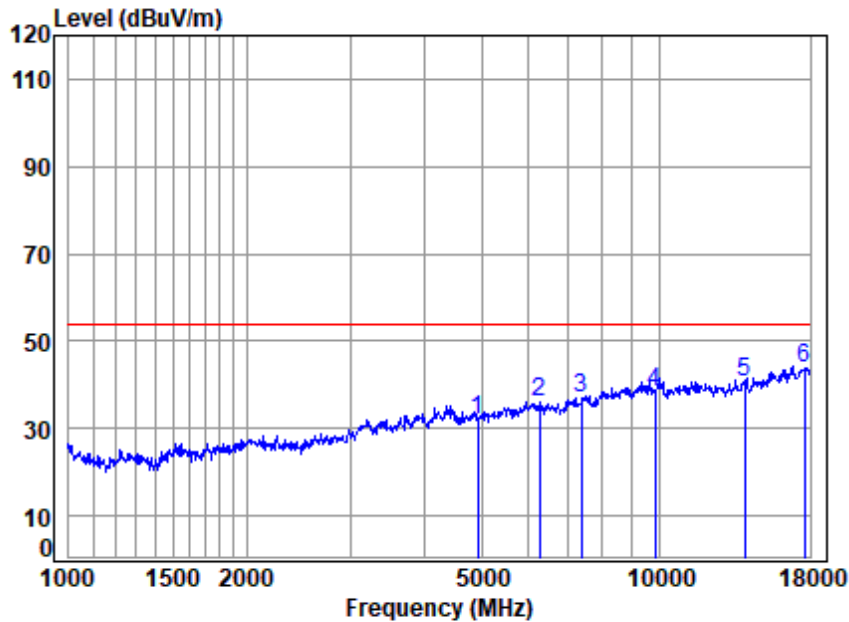


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

		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	4924.000	7.50	34.65	54.21	51.35	39.29	74.00	-34.71 peak
2	6001.626	8.93	34.90	53.10	52.52	43.25	74.00	-30.75 peak
3	7386.000	8.44	35.77	53.16	51.78	42.83	74.00	-31.17 peak
4	9848.000	10.66	37.20	53.26	52.45	47.05	74.00	-26.95 peak
5	13957.530	10.97	39.62	52.91	50.57	48.25	74.00	-25.75 peak
6	p17793.090	11.38	43.89	52.50	48.11	50.88	74.00	-23.12 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

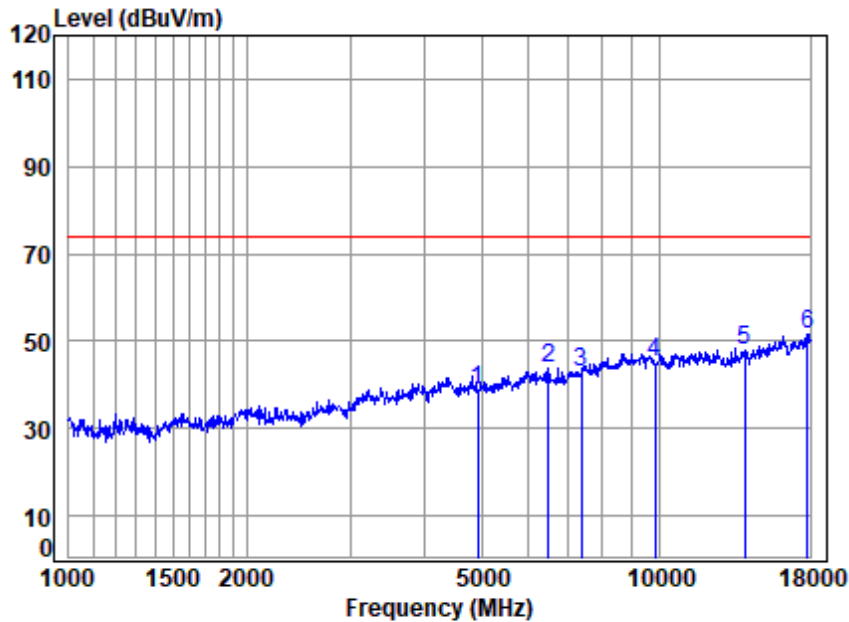


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

	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	4924.000	7.50	34.65	54.21	43.94	31.88	54.00	-22.12 Average
2	6267.553	8.90	34.94	53.13	45.49	36.20	54.00	-17.80 Average
3	7386.000	8.44	35.77	53.16	45.88	36.93	54.00	-17.07 Average
4	9848.000	10.66	37.20	53.26	43.82	38.42	54.00	-15.58 Average
5	13957.530	10.97	39.62	52.91	42.86	40.54	54.00	-13.46 Average
6	17639.470	11.28	43.68	52.58	41.50	43.88	54.00	-10.12 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

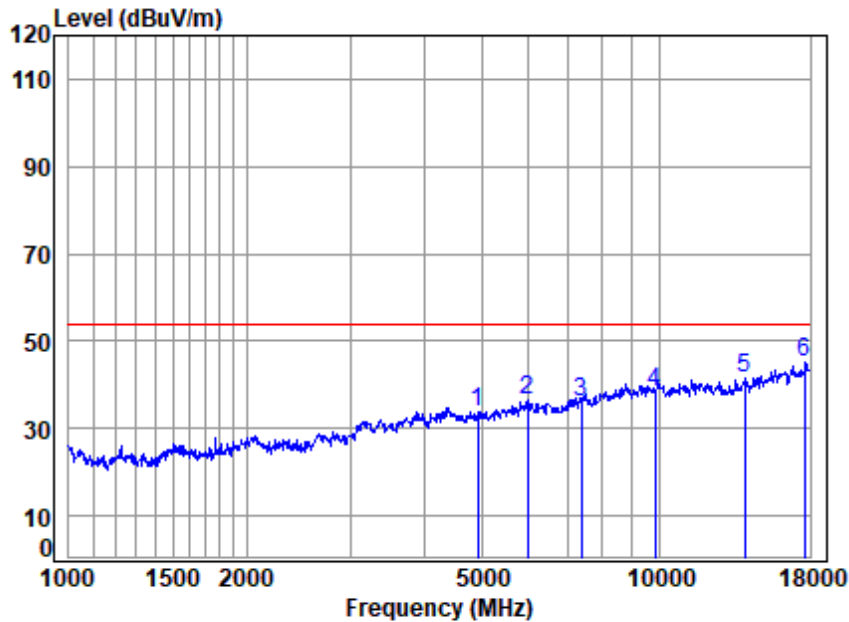


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

		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	4924.000	7.50	34.65	54.21	50.63	38.57	74.00	-35.43 peak
2	6488.754	8.88	35.58	53.15	52.32	43.63	74.00	-30.37 peak
3	7386.000	8.44	35.77	53.16	51.66	42.71	74.00	-31.29 peak
4	9848.000	10.66	37.20	53.26	50.71	45.31	74.00	-28.69 peak
5	13957.530	10.97	39.62	52.91	50.05	47.73	74.00	-26.27 peak
6	p17793.090	11.38	43.89	52.50	48.95	51.72	74.00	-22.28 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

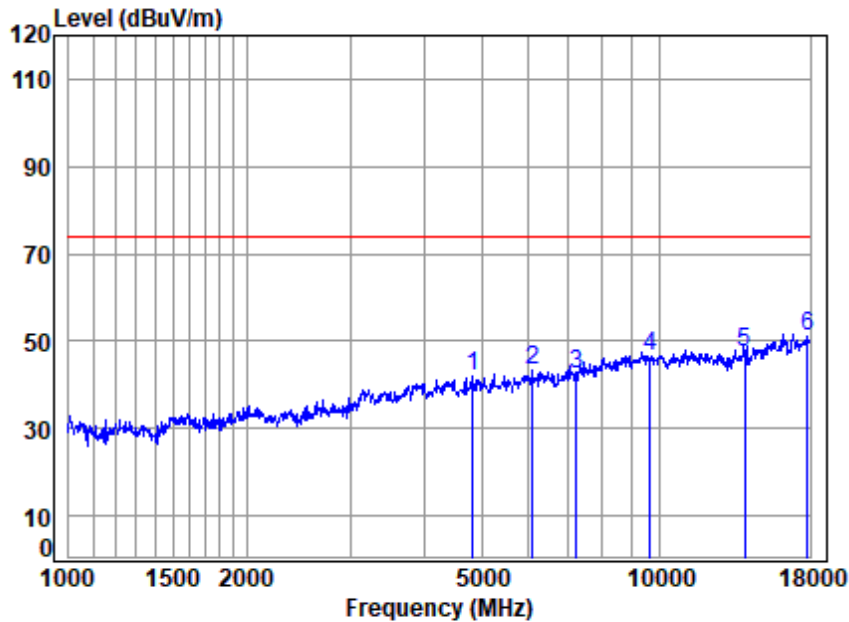


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	4924.000	7.50	34.65	54.21	45.60	33.54	54.00	-20.46 Average
2	5984.305	8.91	34.84	53.12	45.75	36.38	54.00	-17.62 Average
3	7386.000	8.44	35.77	53.16	44.84	35.89	54.00	-18.11 Average
4	9848.000	10.66	37.20	53.26	43.92	38.52	54.00	-15.48 Average
5	13957.530	10.97	39.62	52.91	44.01	41.69	54.00	-12.31 Average
6	17639.470	11.28	43.68	52.58	42.69	45.07	54.00	-8.93 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

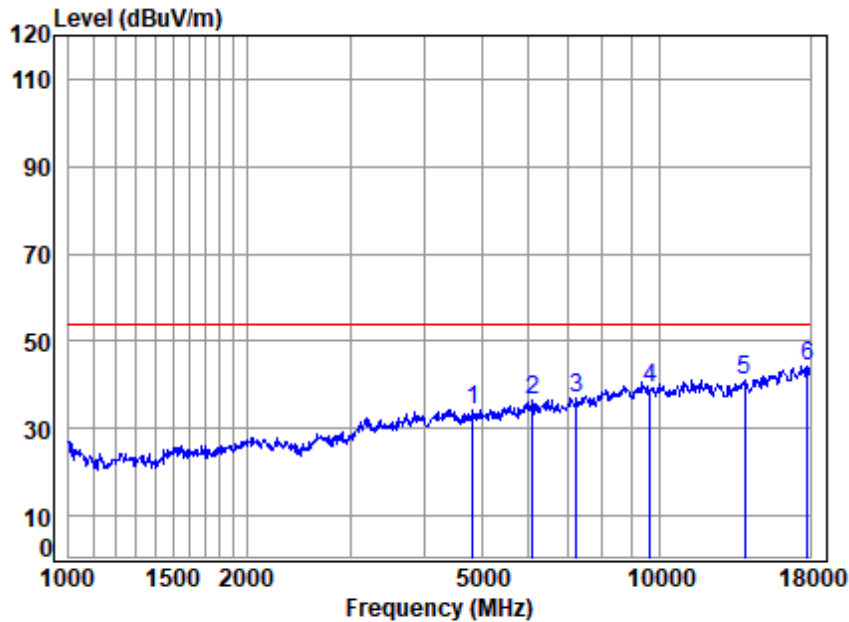


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11AX20

		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	4824.000	7.43	34.40	54.22	54.45	42.06	74.00	-31.94 peak
2	6106.616	8.92	35.07	53.11	52.64	43.52	74.00	-30.48 peak
3	7236.000	8.49	35.70	53.18	51.26	42.27	74.00	-31.73 peak
4	9648.000	10.72	37.50	53.34	51.82	46.70	74.00	-27.30 peak
5	13957.530	10.97	39.62	52.91	49.88	47.56	74.00	-26.44 peak
6	p17793.090	11.38	43.89	52.50	48.12	50.89	74.00	-23.11 peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

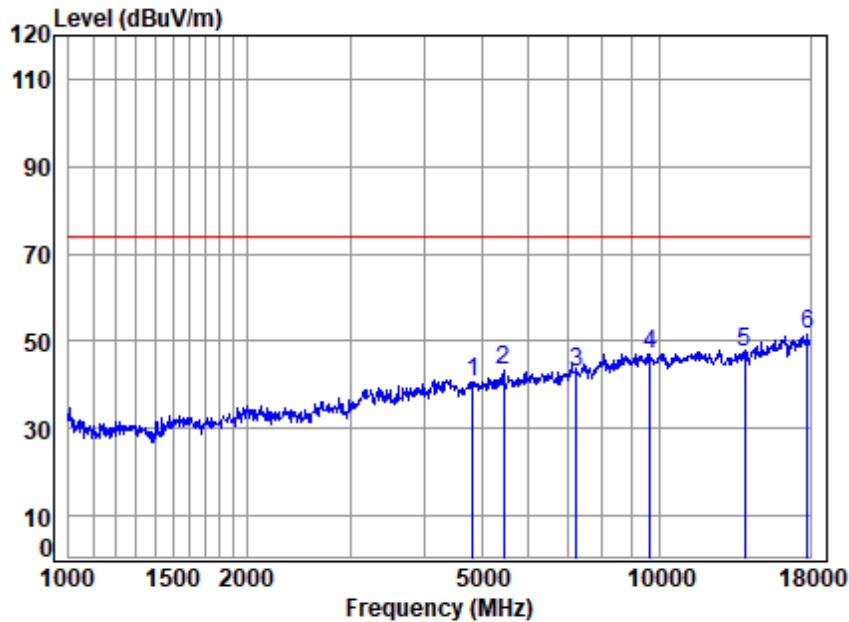


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11AX20

		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	4824.000	7.43	34.40	54.22	46.58	34.19	54.00	-19.81 Average
2	6088.991	8.92	35.08	53.11	45.72	36.61	54.00	-17.39 Average
3	7236.000	8.49	35.70	53.18	45.85	36.86	54.00	-17.14 Average
4	9648.000	10.72	37.50	53.34	44.22	39.10	54.00	-14.90 Average
5	13957.530	10.97	39.62	52.91	43.47	41.15	54.00	-12.85 Average
6	17793.090	11.38	43.89	52.50	41.44	44.21	54.00	-9.79 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

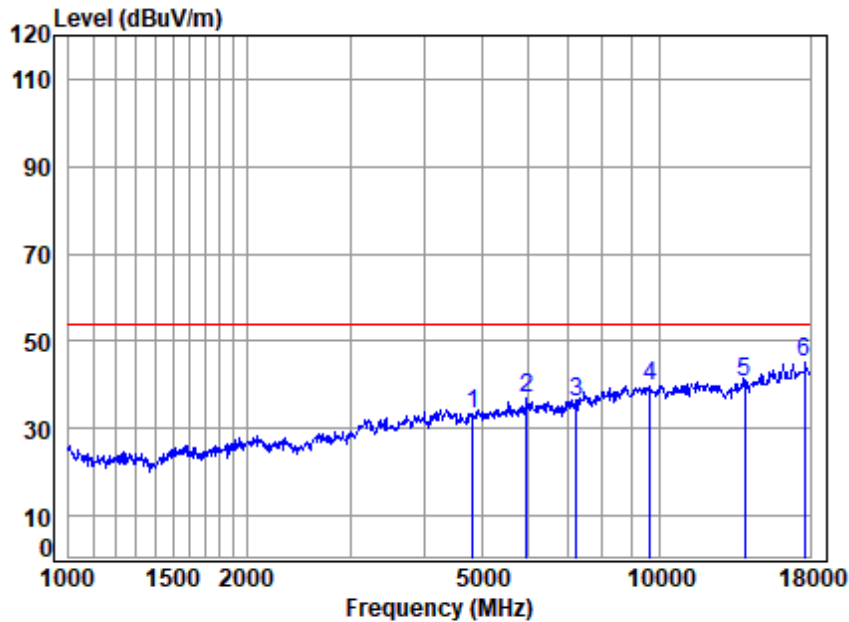


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11AX20

		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	4824.000	7.43	34.40	54.22	53.10	40.71	74.00	-33.29 peak
2	5439.885	8.09	34.68	53.69	54.25	43.33	74.00	-30.67 peak
3	7236.000	8.49	35.70	53.18	51.79	42.80	74.00	-31.20 peak
4	9648.000	10.72	37.50	53.34	52.34	47.22	74.00	-26.78 peak
5	13957.530	10.97	39.62	52.91	49.78	47.46	74.00	-26.54 peak
6	p17793.090	11.38	43.89	52.50	48.97	51.74	74.00	-22.26 peak



Test Mode: 03; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2412 TX RSE
: 2.4G WIFI 11AX20

		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	4824.000	7.43	34.40	54.22	45.80	33.41	54.00	-20.59 Average
2	5967.033	8.88	34.77	53.13	46.25	36.77	54.00	-17.23 Average
3	7236.000	8.49	35.70	53.18	45.05	36.06	54.00	-17.94 Average
4	9648.000	10.72	37.50	53.34	44.66	39.54	54.00	-14.46 Average
5	13957.530	10.97	39.62	52.91	43.08	40.76	54.00	-13.24 Average
6	17639.470	11.28	43.68	52.58	42.90	45.28	54.00	-8.72 Average



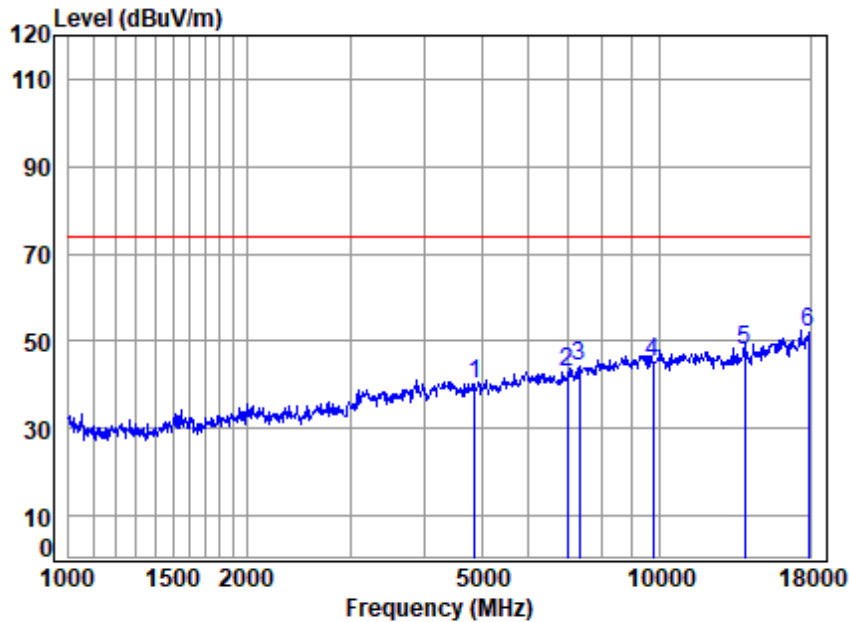
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700329104

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11AX20

		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	4874.000	7.47	34.60	54.21	52.31	40.17	74.00	-33.83 peak
2	6995.172	8.56	35.71	53.20	52.03	43.10	74.00	-30.90 peak
3	7311.000	8.47	35.70	53.17	53.33	44.33	74.00	-29.67 peak
4	9748.000	10.69	37.40	53.30	50.50	45.29	74.00	-28.71 peak
5	13957.530	10.97	39.62	52.91	50.00	47.68	74.00	-26.32 peak
6	p17896.250	11.44	43.90	52.45	48.92	51.81	74.00	-22.19 peak



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Shenzhen Branch

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

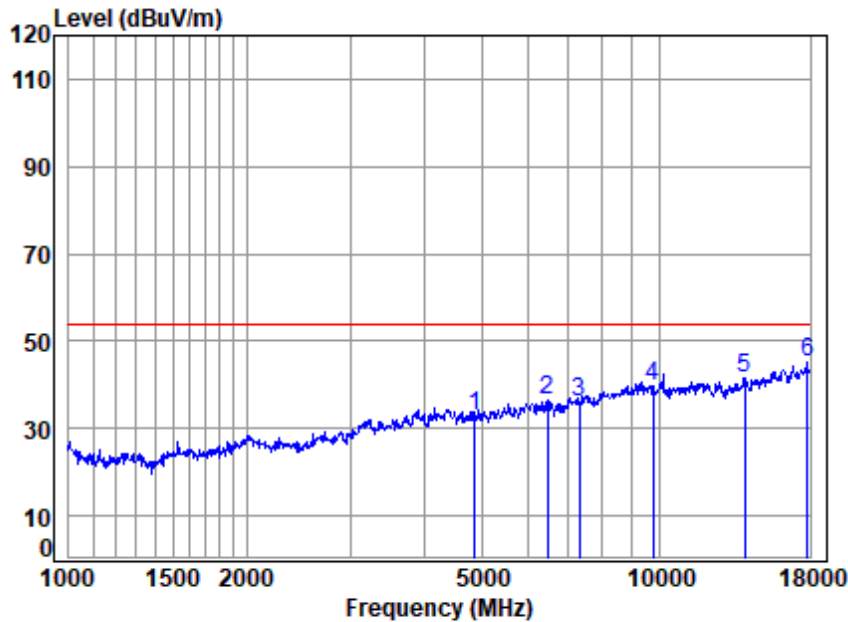
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700329104

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11AX20

	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	4874.000	7.47	34.60	54.21	45.13	32.99	54.00 -21.01 Average
2	6470.026	8.88	35.54	53.15	45.42	36.69	54.00 -17.31 Average
3	7311.000	8.47	35.70	53.17	45.13	36.13	54.00 -17.87 Average
4	9748.000	10.69	37.40	53.30	44.70	39.49	54.00 -14.51 Average
5	13957.530	10.97	39.62	52.91	43.82	41.50	54.00 -12.50 Average
6	17793.090	11.38	43.89	52.50	42.21	44.98	54.00 -9.02 Average



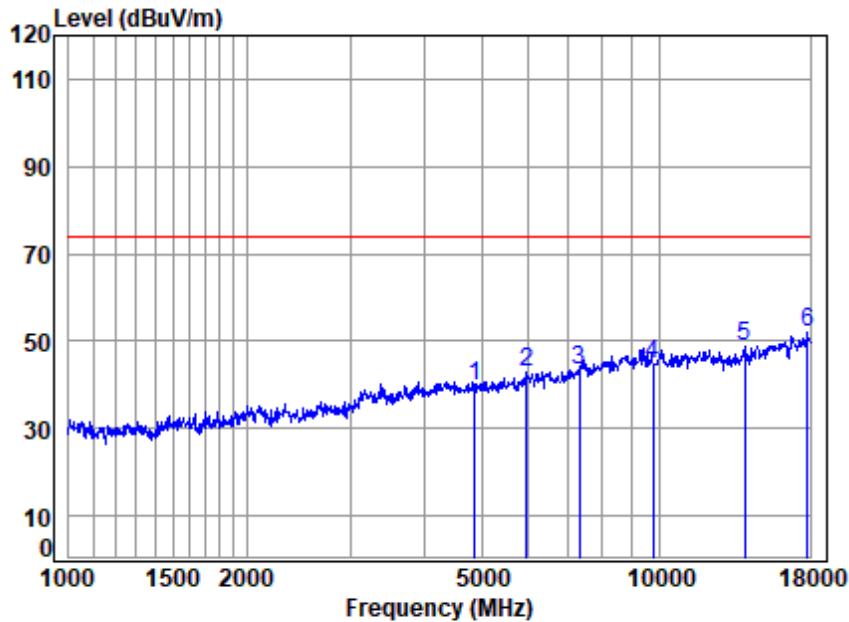
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZEMC) Laboratory

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

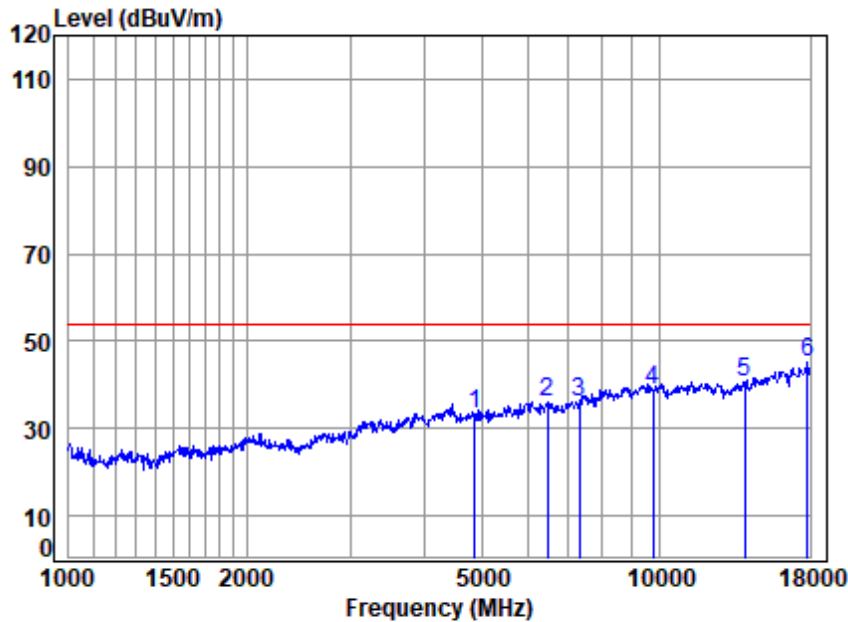


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11AX20

		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	4874.000	7.47	34.60	54.21	51.98	39.84	74.00	-34.16 peak
2	5949.811	8.86	34.70	53.15	52.55	42.96	74.00	-31.04 peak
3	7311.000	8.47	35.70	53.17	52.52	43.52	74.00	-30.48 peak
4	9748.000	10.69	37.40	53.30	50.06	44.85	74.00	-29.15 peak
5	13957.530	10.97	39.62	52.91	51.04	48.72	74.00	-25.28 peak
6	p17793.090	11.38	43.89	52.50	49.17	51.94	74.00	-22.06 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

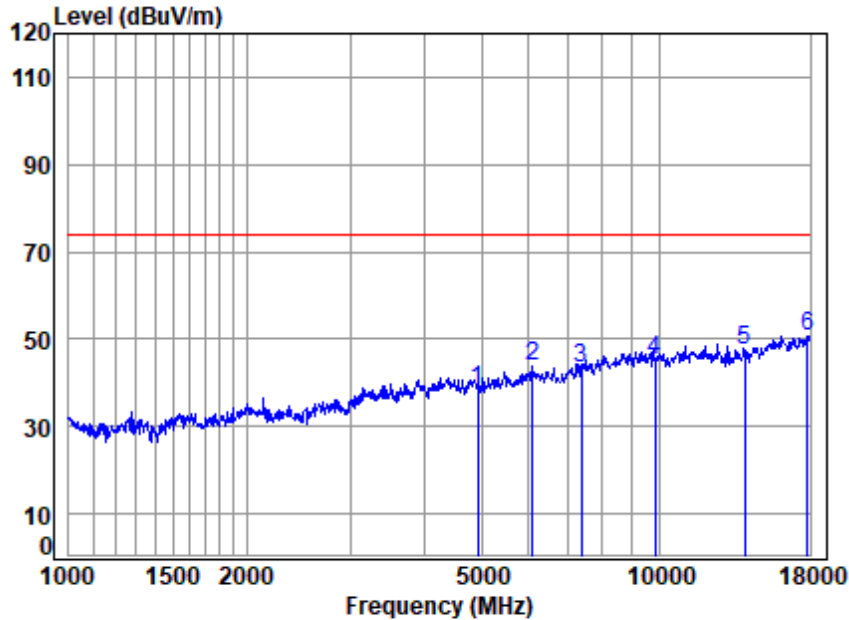


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11AX20

	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	4874.000	7.47	34.60	54.21	45.65	33.51	54.00	-20.49 Average
2	6470.026	8.88	35.54	53.15	44.95	36.22	54.00	-17.78 Average
3	7311.000	8.47	35.70	53.17	44.99	35.99	54.00	-18.01 Average
4	9748.000	10.69	37.40	53.30	43.96	38.75	54.00	-15.25 Average
5	13957.530	10.97	39.62	52.91	43.02	40.70	54.00	-13.30 Average
6	17844.590	11.41	43.90	52.48	42.16	44.99	54.00	-9.01 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

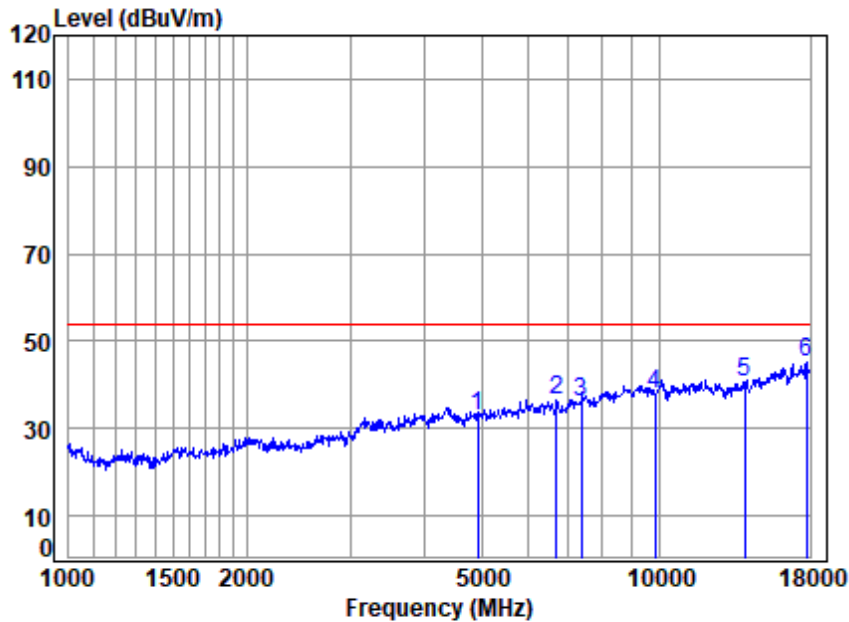


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11AX20

		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	4924.000	7.50	34.65	54.21	50.57	38.51	74.00	-35.49 peak
2	6106.616	8.92	35.07	53.11	52.88	43.76	74.00	-30.24 peak
3	7386.000	8.44	35.77	53.16	52.52	43.57	74.00	-30.43 peak
4	9848.000	10.66	37.20	53.26	50.60	45.20	74.00	-28.80 peak
5	13957.530	10.97	39.62	52.91	49.55	47.23	74.00	-26.77 peak
6	p17793.090	11.38	43.89	52.50	48.10	50.87	74.00	-23.13 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

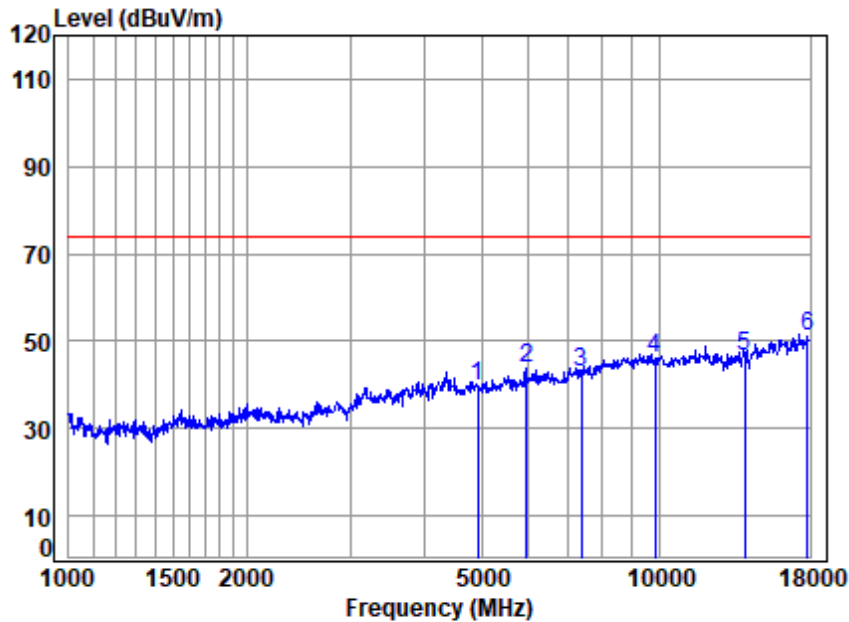


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11AX20

		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	4924.000	7.50	34.65	54.21	44.97	32.91	54.00	-21.09 Average
2	6698.373	8.75	35.20	53.17	45.50	36.28	54.00	-17.72 Average
3	7386.000	8.44	35.77	53.16	45.13	36.18	54.00	-17.82 Average
4	9848.000	10.66	37.20	53.26	43.31	37.91	54.00	-16.09 Average
5	13957.530	10.97	39.62	52.91	42.87	40.55	54.00	-13.45 Average
6	q17741.740	11.35	43.84	52.53	42.33	44.99	54.00	-9.01 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

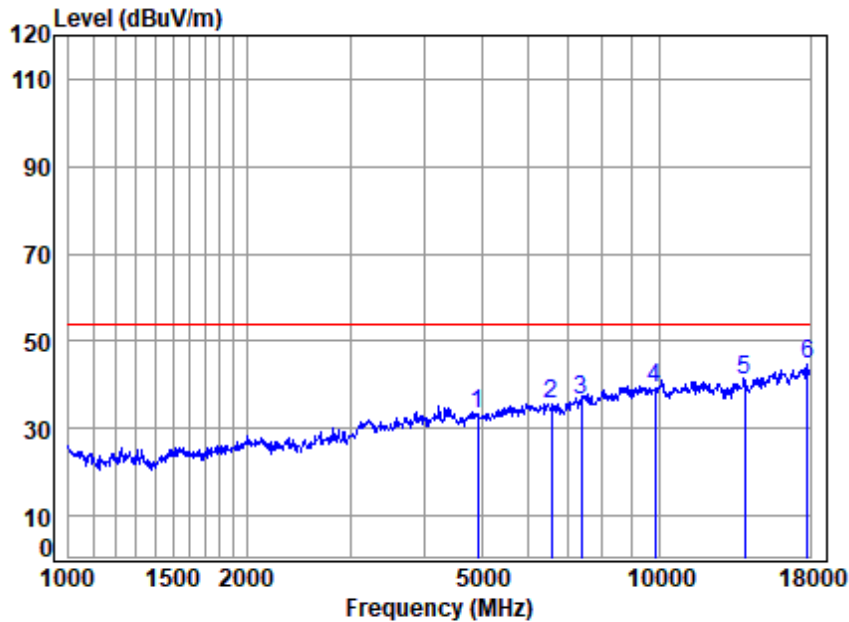


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11AX20

		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	4924.000	7.50	34.65	54.21	51.68	39.62	74.00	-34.38 peak
2	5949.811	8.86	34.70	53.15	53.46	43.87	74.00	-30.13 peak
3	7386.000	8.44	35.77	53.16	52.06	43.11	74.00	-30.89 peak
4	9848.000	10.66	37.20	53.26	51.63	46.23	74.00	-27.77 peak
5	13957.530	10.97	39.62	52.91	49.02	46.70	74.00	-27.30 peak
6	p17793.090	11.38	43.89	52.50	48.26	51.03	74.00	-22.97 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

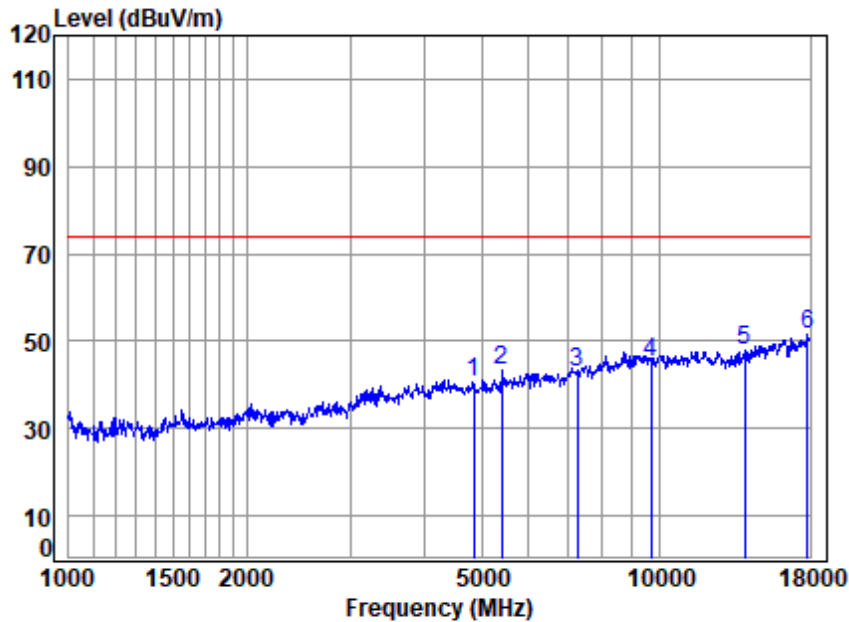


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2462 TX RSE
: 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	4924.000	7.50	34.65	54.21	45.41	33.35	54.00	-20.65 Average
2	6564.209	8.84	35.44	53.16	44.66	35.78	54.00	-18.22 Average
3	7386.000	8.44	35.77	53.16	45.66	36.71	54.00	-17.29 Average
4	9848.000	10.66	37.20	53.26	44.78	39.38	54.00	-14.62 Average
5	13957.530	10.97	39.62	52.91	43.43	41.11	54.00	-12.89 Average
6	17844.590	11.41	43.90	52.48	41.93	44.76	54.00	-9.24 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2422 TX RSE
: 2.4G WIFI 11AX40

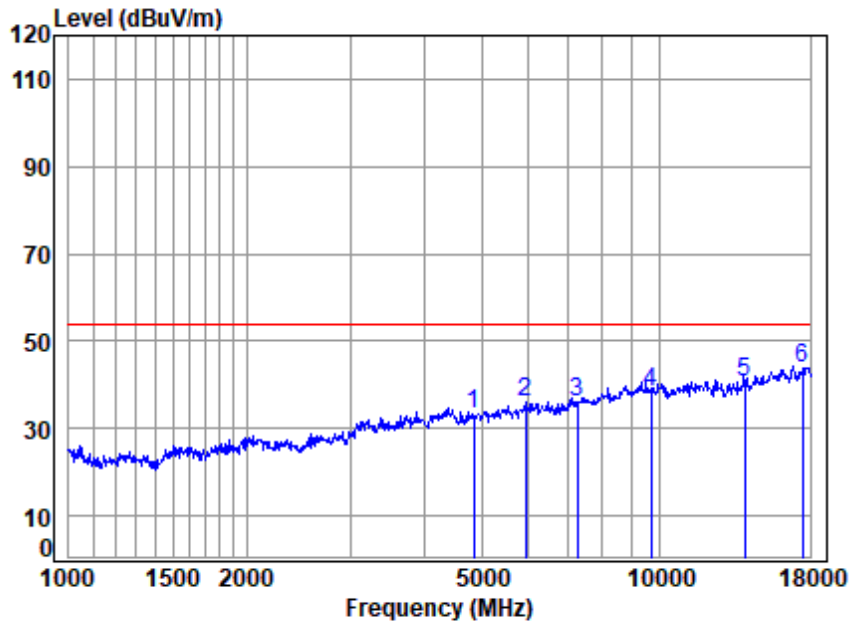
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4844.000	7.44	34.48	54.21	52.84	40.55	74.00	-33.45 peak
2	5408.529	8.05	34.62	53.73	54.22	43.16	74.00	-30.84 peak
3	7266.000	8.48	35.70	53.17	52.08	43.09	74.00	-30.91 peak
4	9688.000	10.71	37.50	53.32	50.39	45.28	74.00	-28.72 peak
5	13957.530	10.97	39.62	52.91	50.24	47.92	74.00	-26.08 peak
6	p17844.590	11.41	43.90	52.48	48.85	51.68	74.00	-22.32 peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

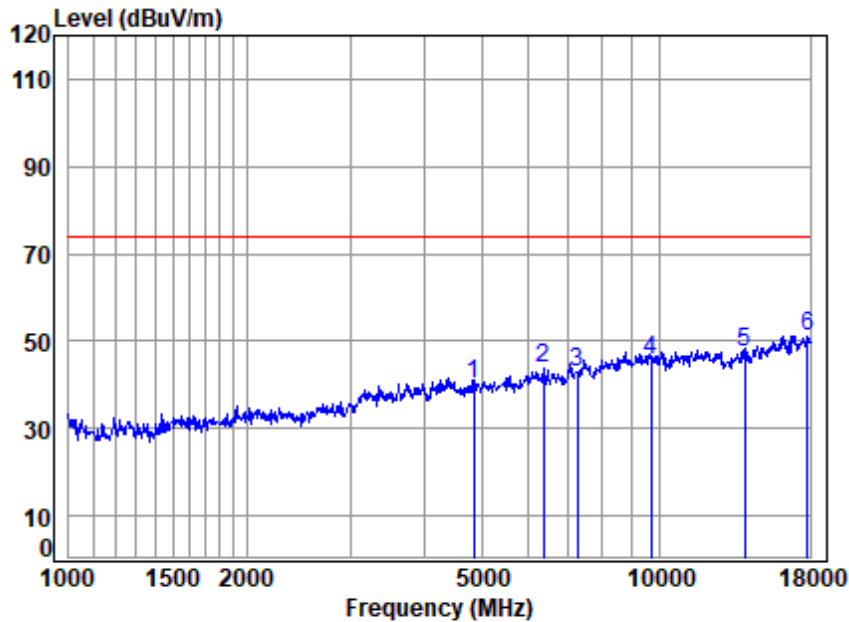


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2422 TX RSE
: 2.4G WIFI 11AX40

		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	4844.000	7.44	34.48	54.21	45.65	33.36	54.00	-20.64 Average
2	5932.638	8.83	34.67	53.17	45.69	36.02	54.00	-17.98 Average
3	7266.000	8.48	35.70	53.17	44.86	35.87	54.00	-18.13 Average
4	9688.000	10.71	37.50	53.32	43.34	38.23	54.00	-15.77 Average
5	13957.530	10.97	39.62	52.91	42.85	40.53	54.00	-13.47 Average
6	17487.180	11.19	43.40	52.65	42.08	44.02	54.00	-9.98 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2422 TX RSE
: 2.4G WIFI 11AX40

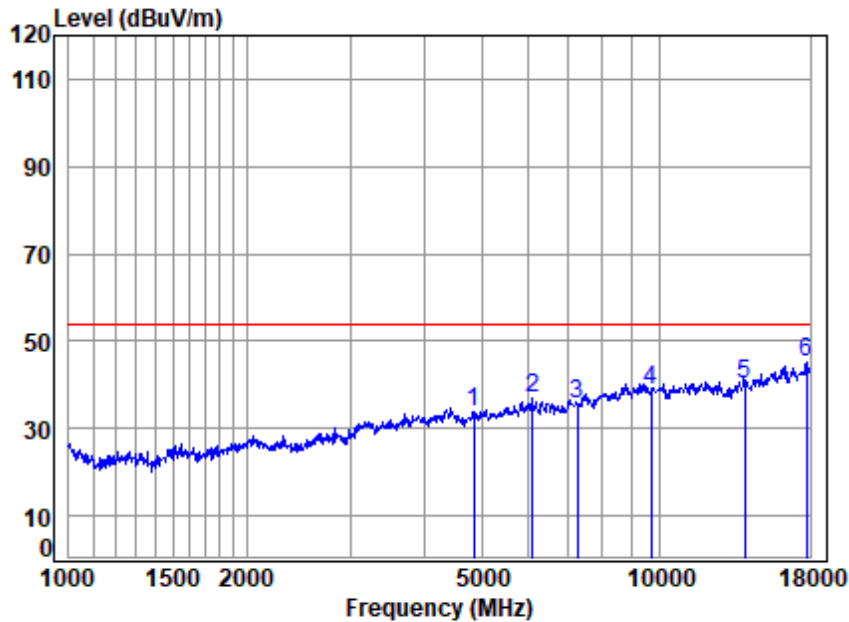
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4844.000	7.44	34.48	54.21	52.42	40.13	74.00	-33.87 peak
2	6358.789	8.89	34.95	53.14	52.89	43.59	74.00	-30.41 peak
3	7266.000	8.48	35.70	53.17	51.72	42.73	74.00	-31.27 peak
4	9688.000	10.71	37.50	53.32	50.63	45.52	74.00	-28.48 peak
5	13957.530	10.97	39.62	52.91	49.63	47.31	74.00	-26.69 peak
6	p17793.090	11.38	43.89	52.50	48.53	51.30	74.00	-22.70 peak



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Test Mode: 03; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low

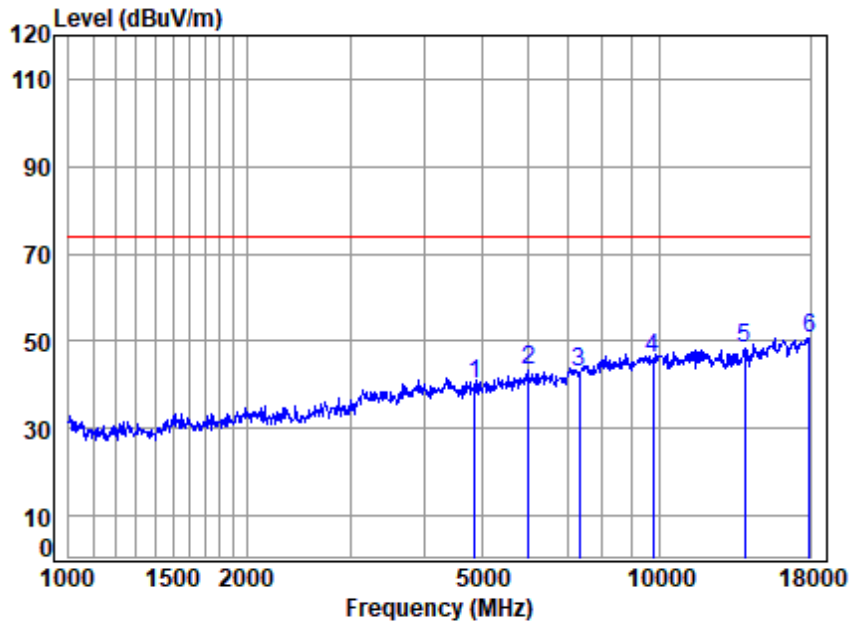


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2422 TX RSE
: 2.4G WIFI 11AX40

		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	4844.000	7.44	34.48	54.21	46.03	33.74	54.00	-20.26 Average
2	6106.616	8.92	35.07	53.11	46.09	36.97	54.00	-17.03 Average
3	7266.000	8.48	35.70	53.17	44.71	35.72	54.00	-18.28 Average
4	9688.000	10.71	37.50	53.32	43.87	38.76	54.00	-15.24 Average
5	13957.530	10.97	39.62	52.91	42.66	40.34	54.00	-13.66 Average
6	17741.740	11.35	43.84	52.53	42.62	45.28	54.00	-8.72 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle

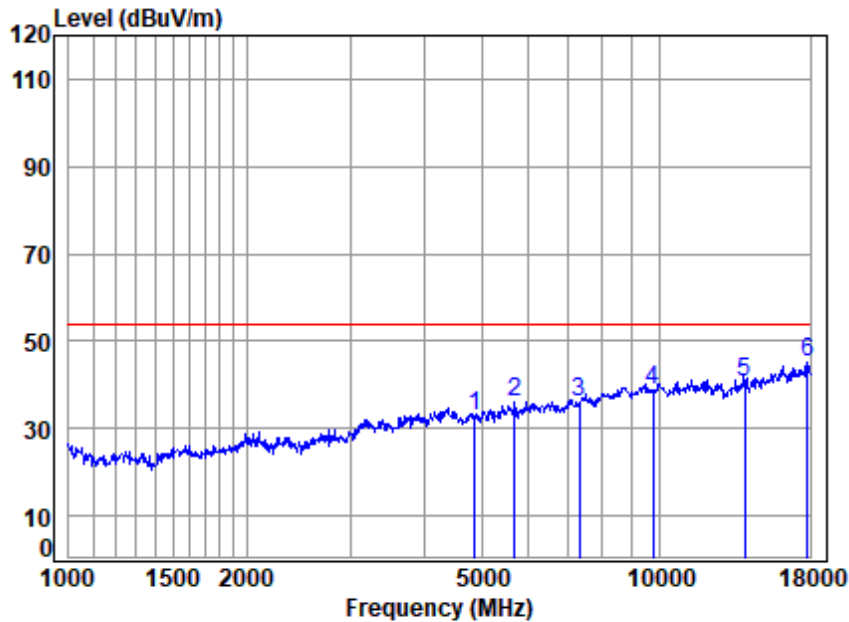


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11AX40

	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	4874.000	7.47	34.60	54.21	52.28	40.14	74.00 -33.86 peak
2	6001.626	8.93	34.90	53.10	52.67	43.40	74.00 -30.60 peak
3	7311.000	8.47	35.70	53.17	52.01	43.01	74.00 -30.99 peak
4	9748.000	10.69	37.40	53.30	51.07	45.86	74.00 -28.14 peak
5	13957.530	10.97	39.62	52.91	50.86	48.54	74.00 -25.46 peak
6	p17948.050	11.47	44.09	52.43	47.69	50.82	74.00 -23.18 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle

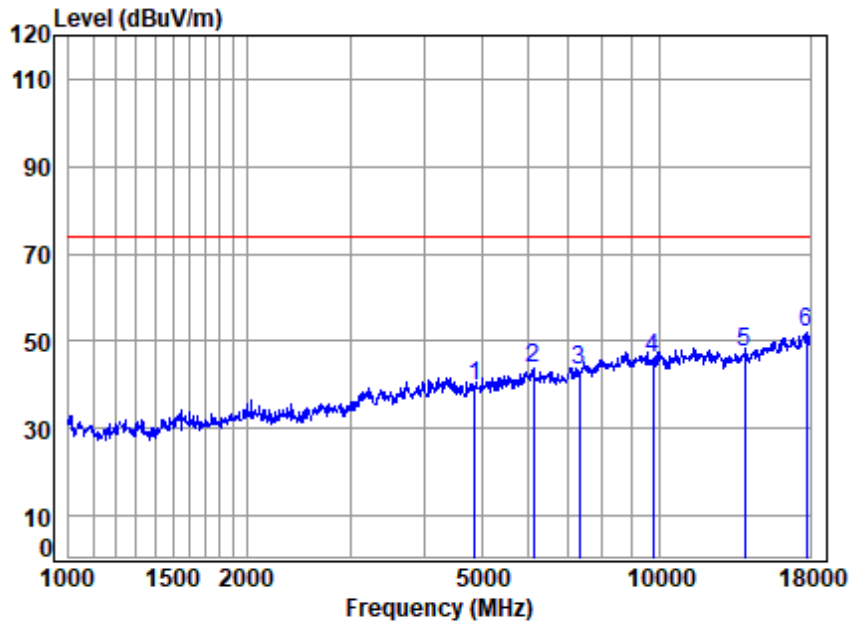


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11AX40

	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	4874.000	7.47	34.60	54.21	45.10	32.96	54.00 -21.04 Average
2	5697.365	8.47	34.31	53.41	46.88	36.25	54.00 -17.75 Average
3	7311.000	8.47	35.70	53.17	45.12	36.12	54.00 -17.88 Average
4	9748.000	10.69	37.40	53.30	44.15	38.94	54.00 -15.06 Average
5	13957.530	10.97	39.62	52.91	42.83	40.51	54.00 -13.49 Average
6	17793.090	11.38	43.89	52.50	42.18	44.95	54.00 -9.05 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle

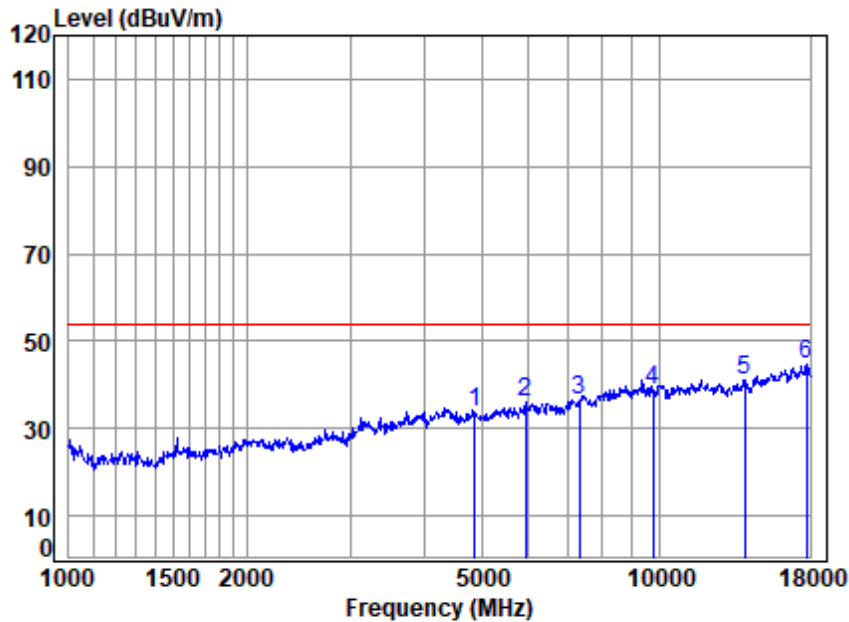


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11AX40

	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	4874.000	7.47	34.60	54.21	51.65	39.51	74.00	-34.49 peak
2	6124.292	8.92	35.00	53.11	52.94	43.75	74.00	-30.25 peak
3	7311.000	8.47	35.70	53.17	52.41	43.41	74.00	-30.59 peak
4	9748.000	10.69	37.40	53.30	51.36	46.15	74.00	-27.85 peak
5	13957.530	10.97	39.62	52.91	49.79	47.47	74.00	-26.53 peak
6	p17741.740	11.35	43.84	52.53	49.54	52.20	74.00	-21.80 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle

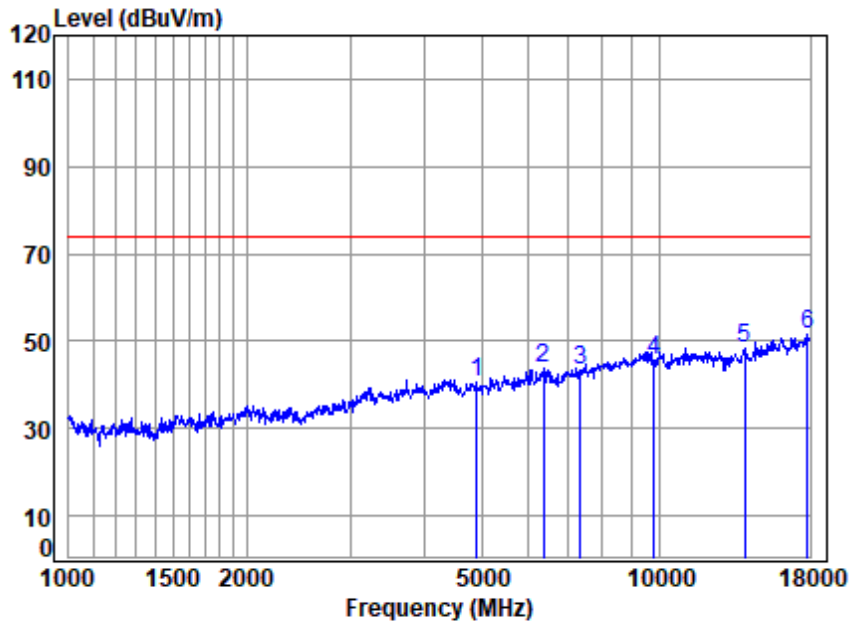


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2437 TX RSE
: 2.4G WIFI 11AX40

		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	4874.000	7.47	34.60	54.21	45.71	33.57	54.00	-20.43 Average
2	5932.638	8.83	34.67	53.17	45.91	36.24	54.00	-17.76 Average
3	7311.000	8.47	35.70	53.17	45.40	36.40	54.00	-17.60 Average
4	9748.000	10.69	37.40	53.30	43.80	38.59	54.00	-15.41 Average
5	13957.530	10.97	39.62	52.91	43.41	41.09	54.00	-12.91 Average
6	17741.740	11.35	43.84	52.53	42.21	44.87	54.00	-9.13 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

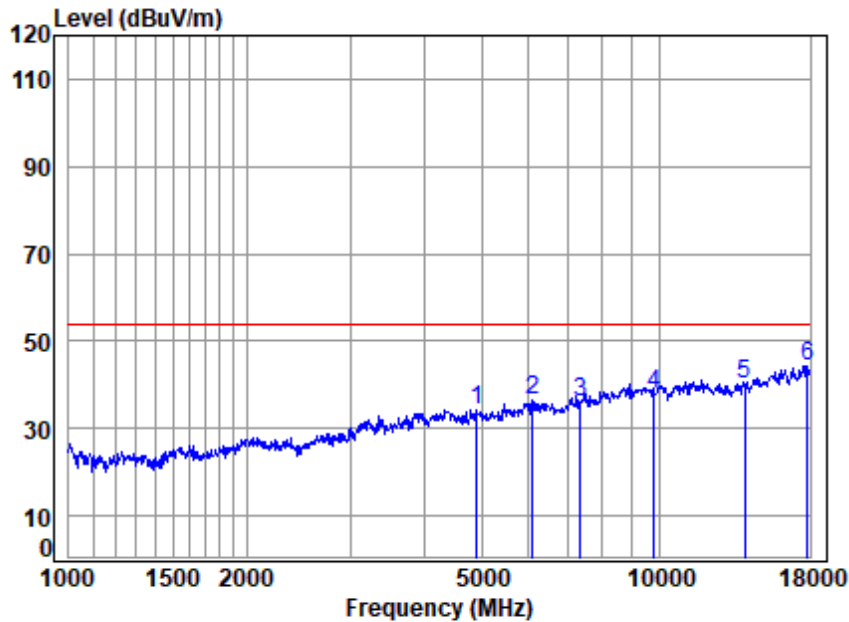


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03291AT\03292AT
 Mode : 2452 TX RSE
 : 2.4G WIFI 11AX40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	4904.000	7.49	34.69	54.21	52.80	40.77	74.00	-33.23 peak
2	6358.789	8.89	34.95	53.14	52.99	43.69	74.00	-30.31 peak
3	7356.000	8.45	35.71	53.16	52.28	43.28	74.00	-30.72 peak
4	9808.000	10.68	37.28	53.27	50.82	45.51	74.00	-28.49 peak
5	13957.530	10.97	39.62	52.91	50.52	48.20	74.00	-25.80 peak
6	p17844.590	11.41	43.90	52.48	48.66	51.49	74.00	-22.51 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

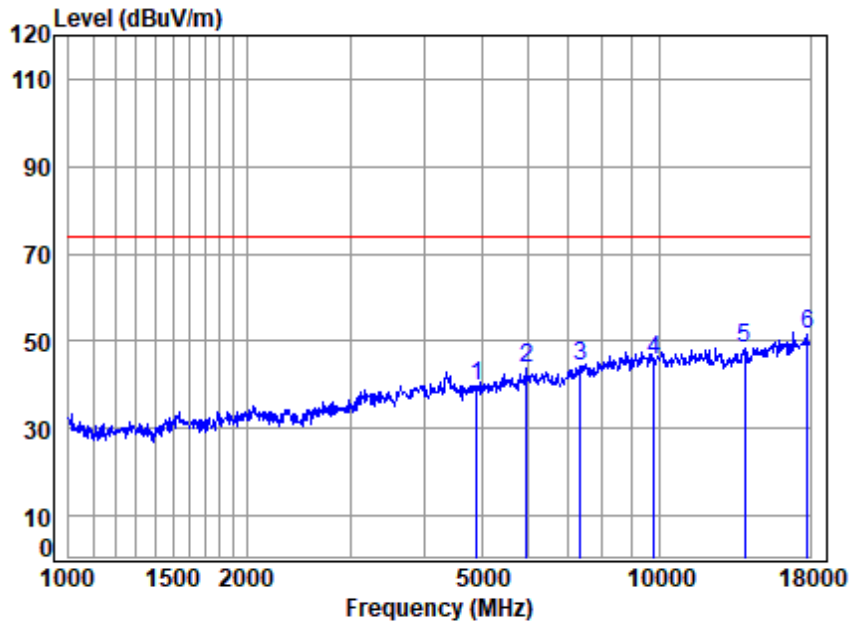


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 2452 TX RSE
: 2.4G WIFI 11AX40

	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	4904.000	7.49	34.69	54.21	46.27	34.24	54.00 -19.76 Average
2	6106.616	8.92	35.07	53.11	45.48	36.36	54.00 -17.64 Average
3	7356.000	8.45	35.71	53.16	44.92	35.92	54.00 -18.08 Average
4	9808.000	10.68	37.28	53.27	43.29	37.98	54.00 -16.02 Average
5	13957.530	10.97	39.62	52.91	42.42	40.10	54.00 -13.90 Average
6	q17793.090	11.38	43.89	52.50	41.71	44.48	54.00 -9.52 Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

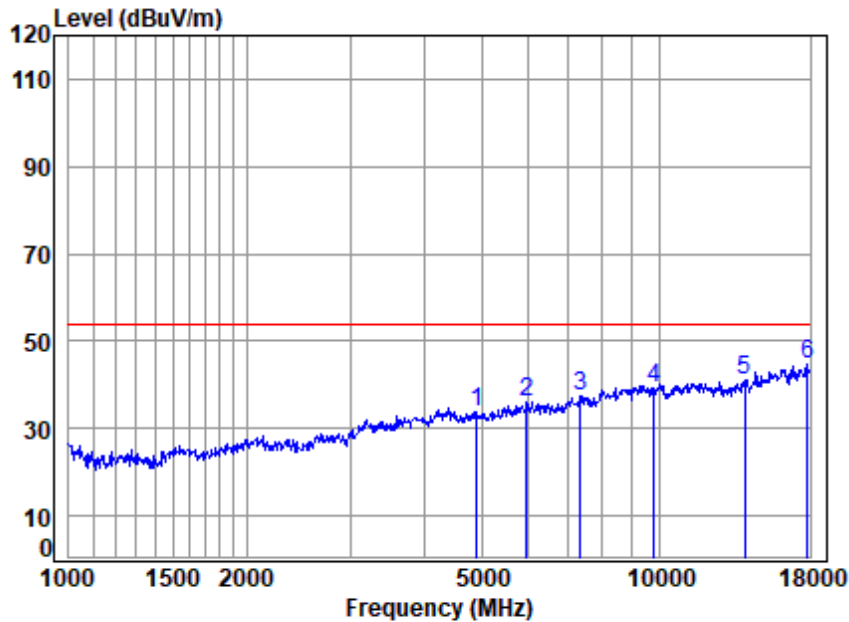


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2452 TX RSE
: 2.4G WIFI 11AX40

		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	4904.000	7.49	34.69	54.21	51.90	39.87	74.00	-34.13 peak
2	5967.033	8.88	34.77	53.13	53.16	43.68	74.00	-30.32 peak
3	7356.000	8.45	35.71	53.16	53.06	44.06	74.00	-29.94 peak
4	9808.000	10.68	37.28	53.27	50.87	45.56	74.00	-28.44 peak
5	13957.530	10.97	39.62	52.91	50.77	48.45	74.00	-25.55 peak
6	p17793.090	11.38	43.89	52.50	48.64	51.41	74.00	-22.59 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 2452 TX RSE
: 2.4G WIFI 11AX40

		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	4904.000	7.49	34.69	54.21	45.70	33.67	54.00	-20.33 Average
2	5949.811	8.86	34.70	53.15	45.62	36.03	54.00	-17.97 Average
3	7356.000	8.45	35.71	53.16	46.37	37.37	54.00	-16.63 Average
4	9808.000	10.68	37.28	53.27	44.33	39.02	54.00	-14.98 Average
5	13957.530	10.97	39.62	52.91	43.38	41.06	54.00	-12.94 Average
6	17844.590	11.41	43.90	52.48	42.08	44.91	54.00	-9.09 Average



7.5 Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2020) Section 11.9.2

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: 22.2 °C

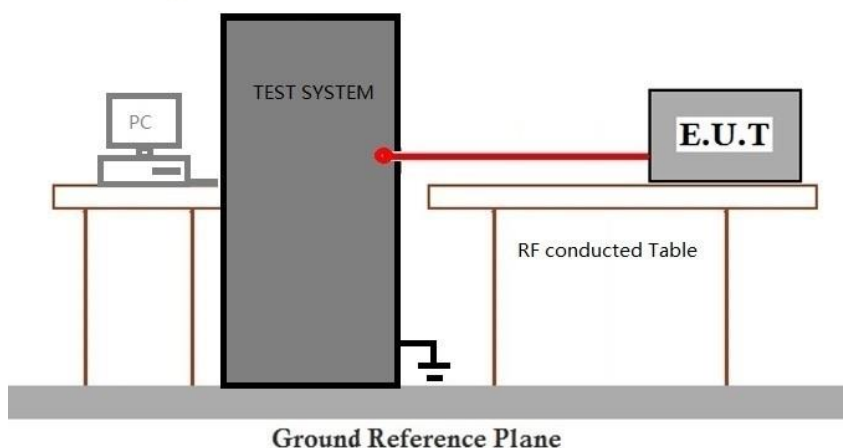
Humidity: 59.0 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. 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

Please Refer to Appendix for Details



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZEMC) Laboratory

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7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2020) Section 11.8.1

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

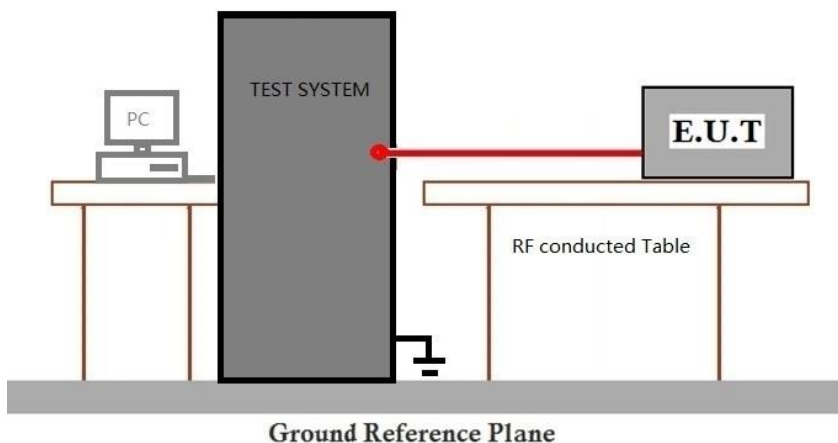
Humidity: 59.0 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. 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 (2020) 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: 22.2 °C

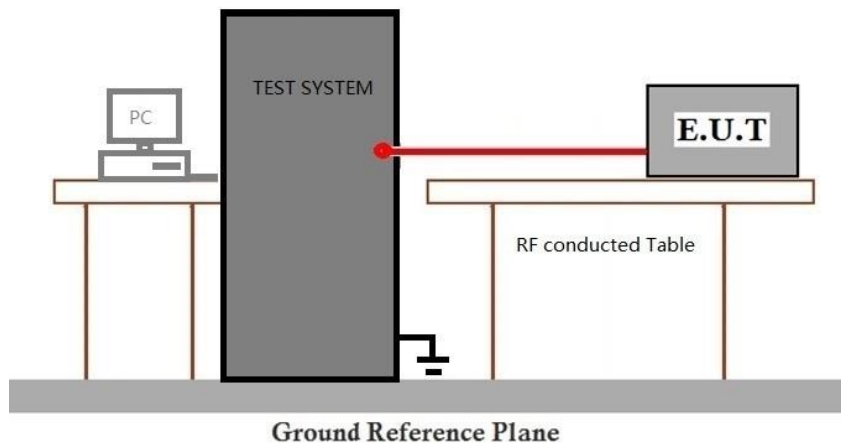
Humidity: 59.0 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. 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 (2020) Section 6.10.4

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: 22.2 °C

Humidity: 59.0 % RH

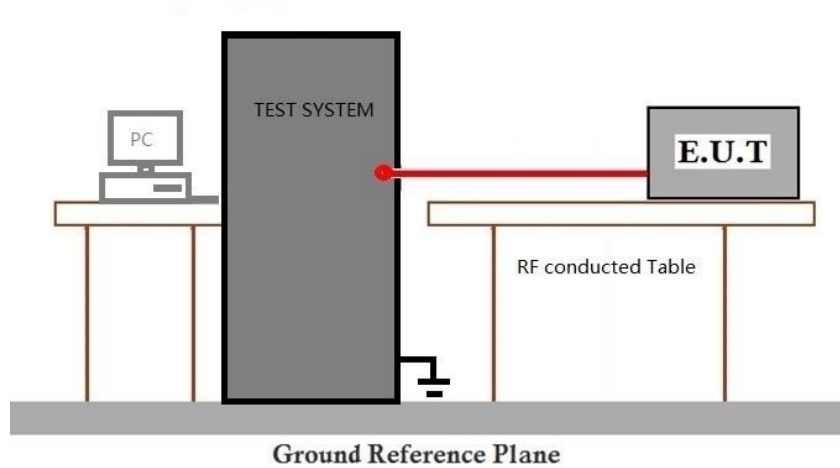
Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. 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 (2020) 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:

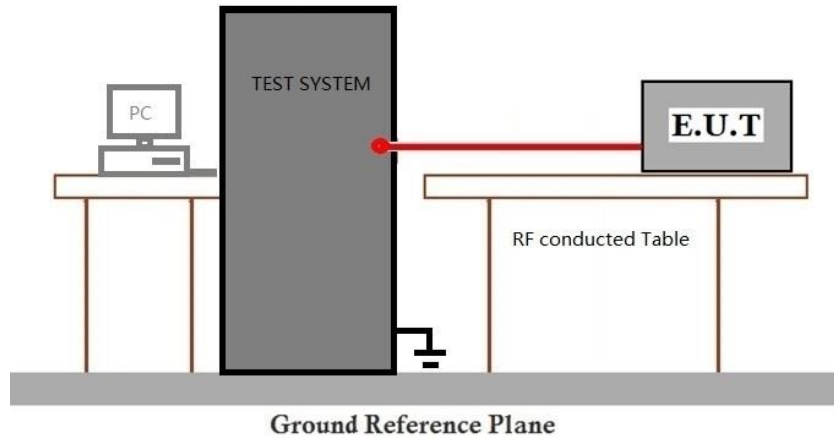
Temperature: 22.2 °C Humidity: 59.0 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. 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

Refer to Appendix - Test Setup Photo for SZCR2507003291AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2507003291AT

10 Appendix

1. Duty Cycle

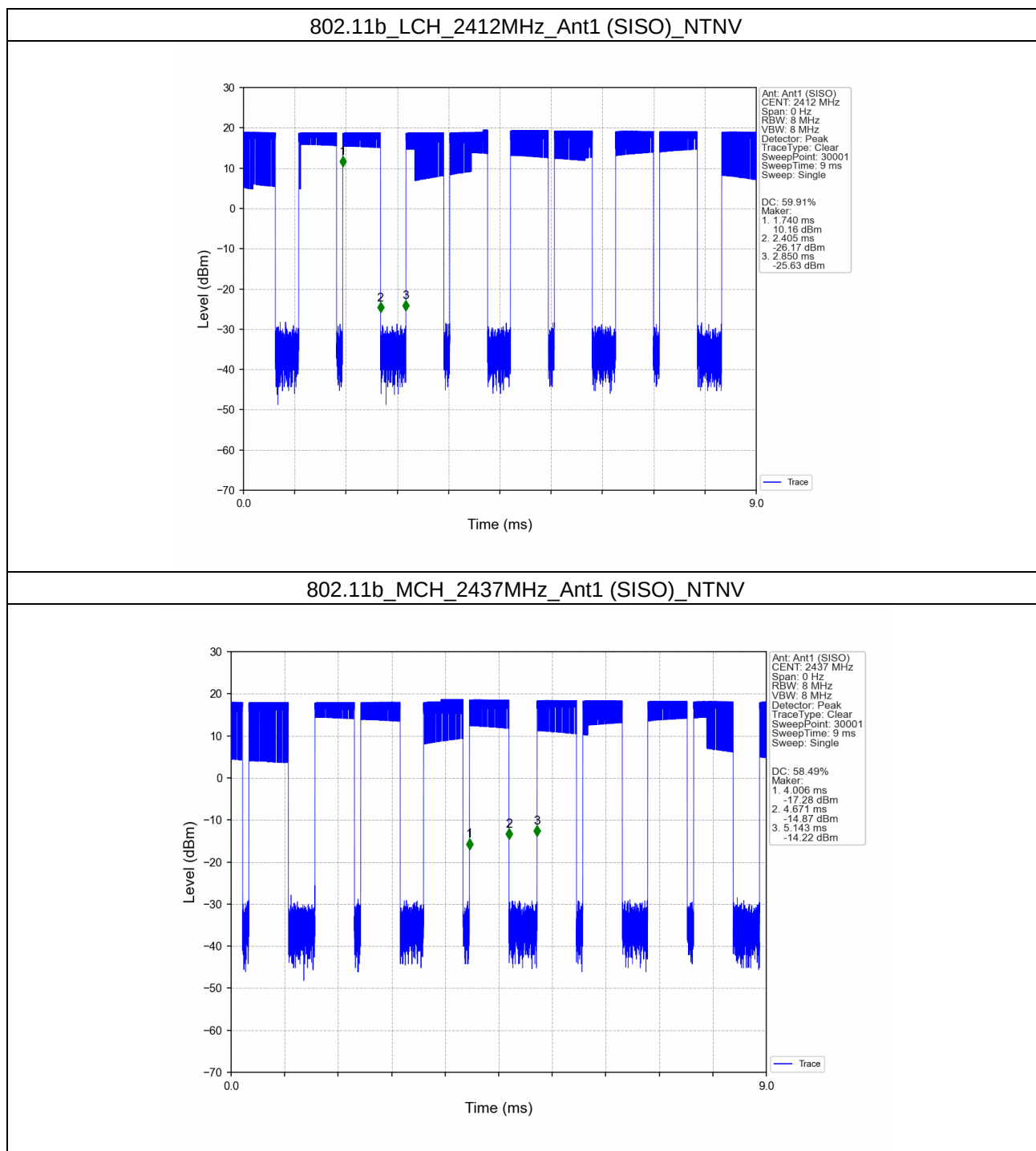
1.1 Test Result

1.1.1 Ant1

Ant1									
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	SISO	2412	/	/	0.665	1.110	59.91	2.23	26.32
		2437	/	/	0.665	1.137	58.49	2.33	27.76
		2462	/	/	0.664	1.101	60.31	2.20	25.88
802.11g	SISO	2412	/	/	2.096	2.562	81.81	0.87	1.79
		2437	/	/	2.097	2.562	81.85	0.87	1.75
		2462	/	/	2.096	2.607	80.40	0.95	3.20
802.11n (HT20)	MIMO	2412	/	/	5.427	5.939	91.38	0.39	1.17
		2437	/	/	5.429	5.947	91.29	0.40	1.53
		2462	/	/	5.428	6.010	90.32	0.44	2.24
802.11n (HT40)	MIMO	2422	/	/	5.427	5.893	92.09	0.36	1.15
		2437	/	/	5.427	5.912	91.80	0.37	1.45
		2452	/	/	5.427	5.884	92.23	0.35	0.88
802.11ax (HEW20)	MIMO	2412	RU242	Left	5.444	5.937	91.70	0.38	1.00
		2437	RU242	Left	5.446	5.929	91.85	0.37	0.97
		2462	RU242	Left	5.446	5.894	92.40	0.34	0.43
802.11ax (HEW40)	MIMO	2422	RU484	Left	5.446	5.929	91.85	0.37	1.41
		2437	RU484	Left	5.447	5.884	92.57	0.34	0.71
		2452	RU484	Left	5.444	5.892	92.40	0.34	0.88

1.2 Test Graph

1.2.1 Ant1



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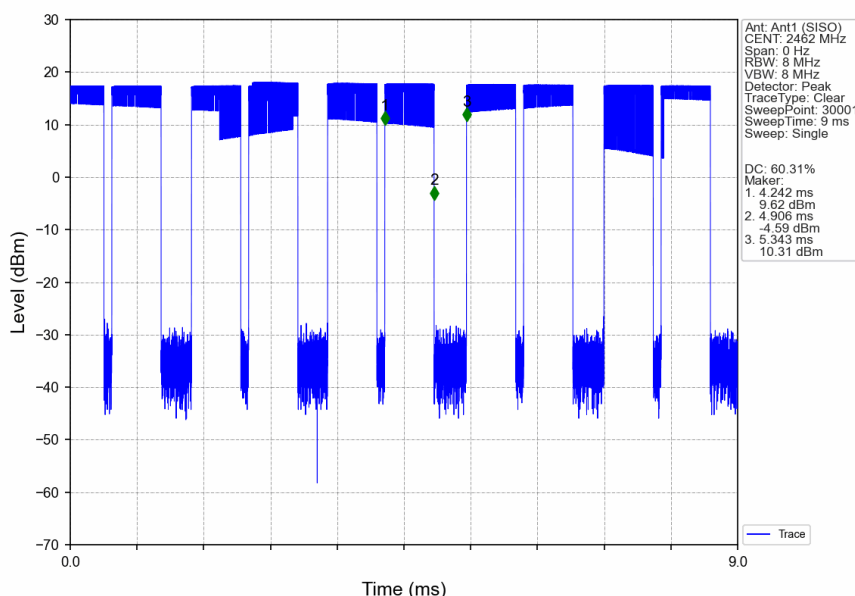
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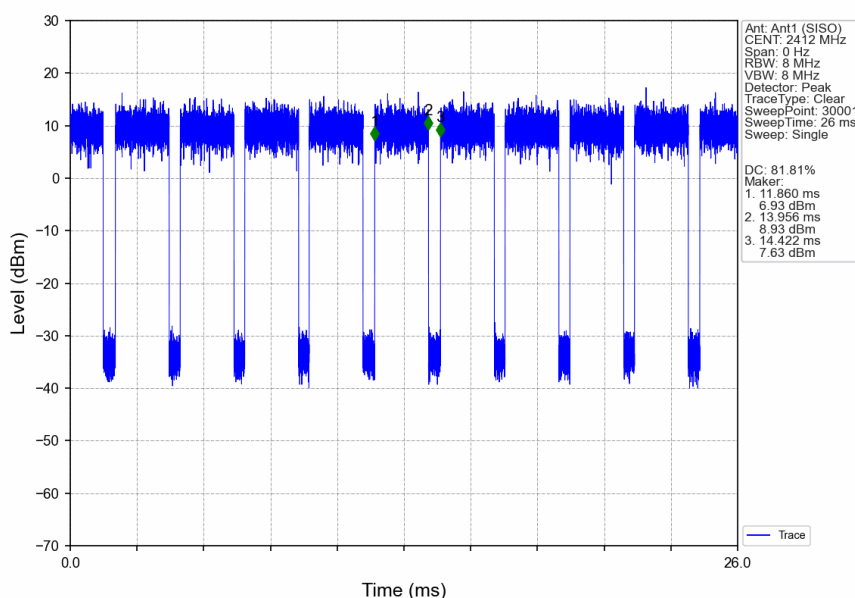
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Shenzhen Branch (Shenzhen EMC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

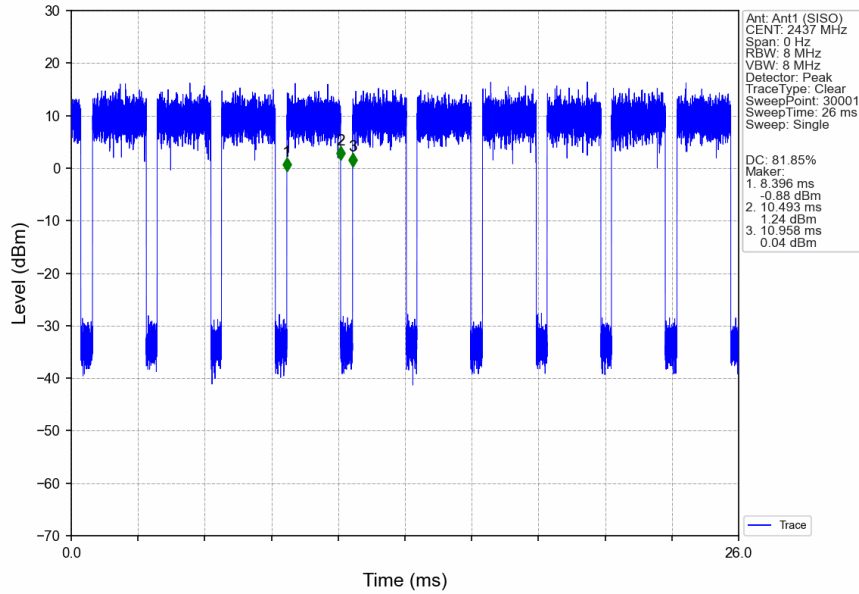
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



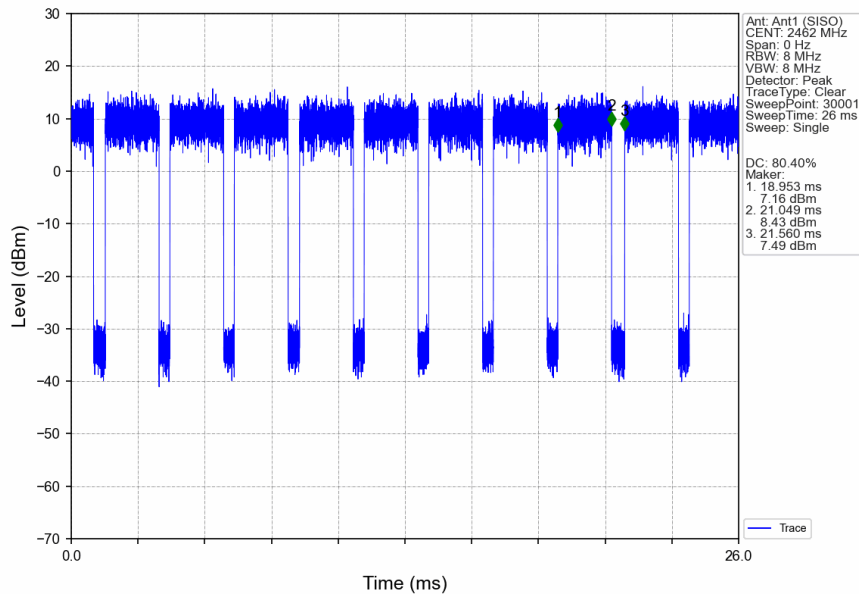
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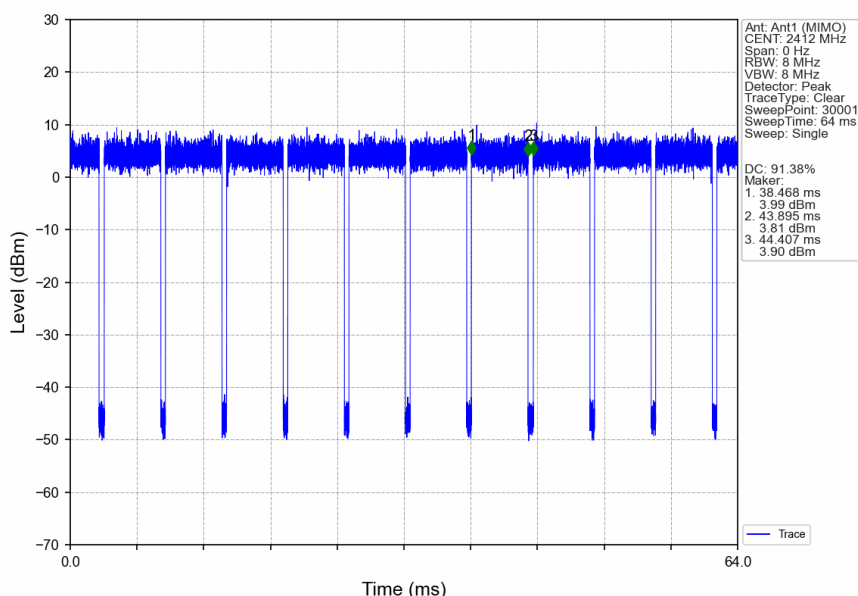
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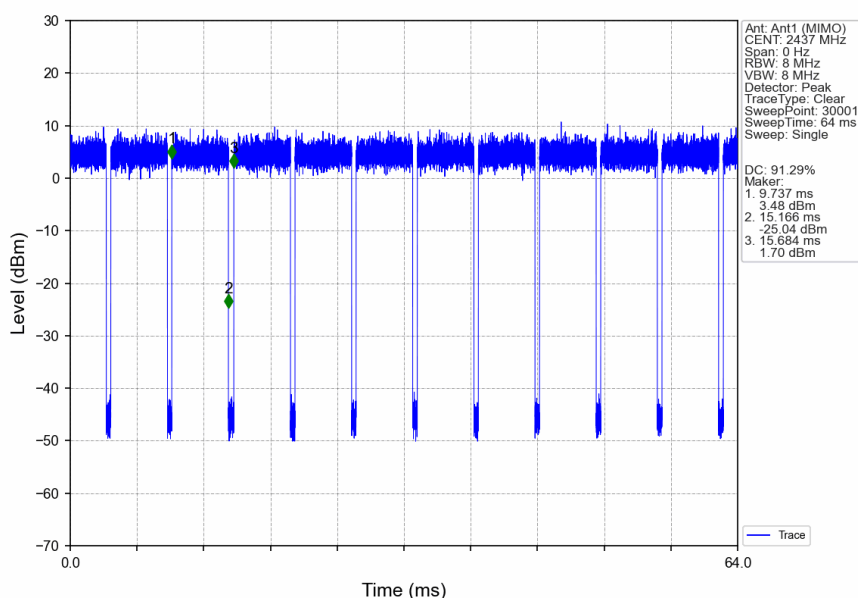
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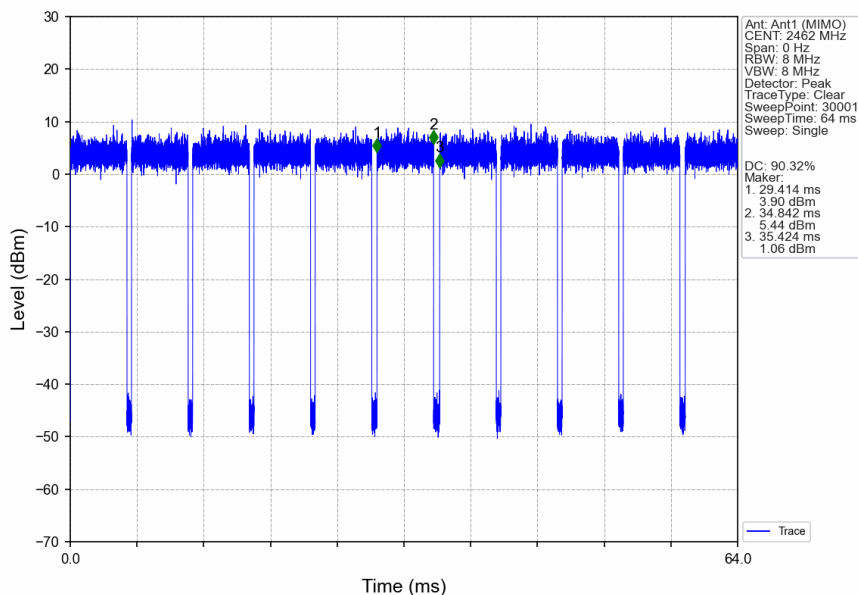
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



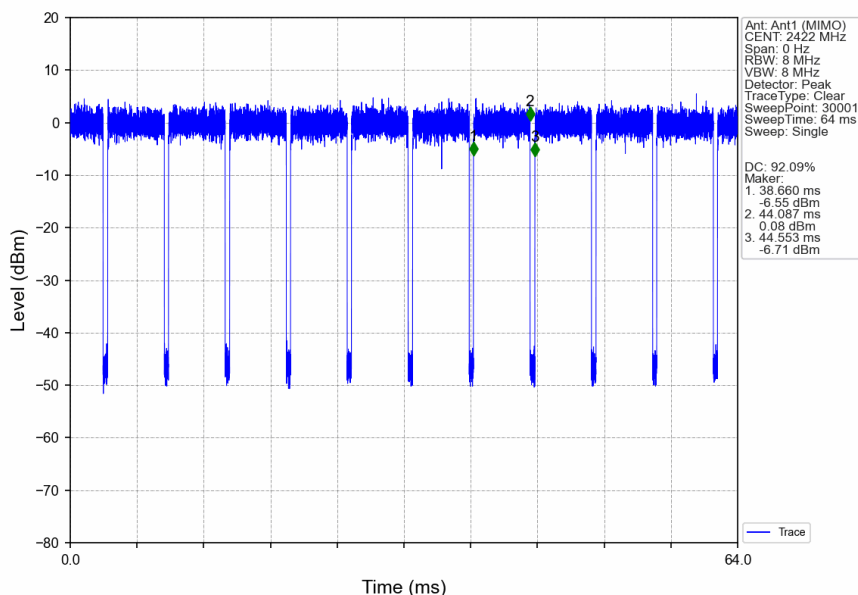
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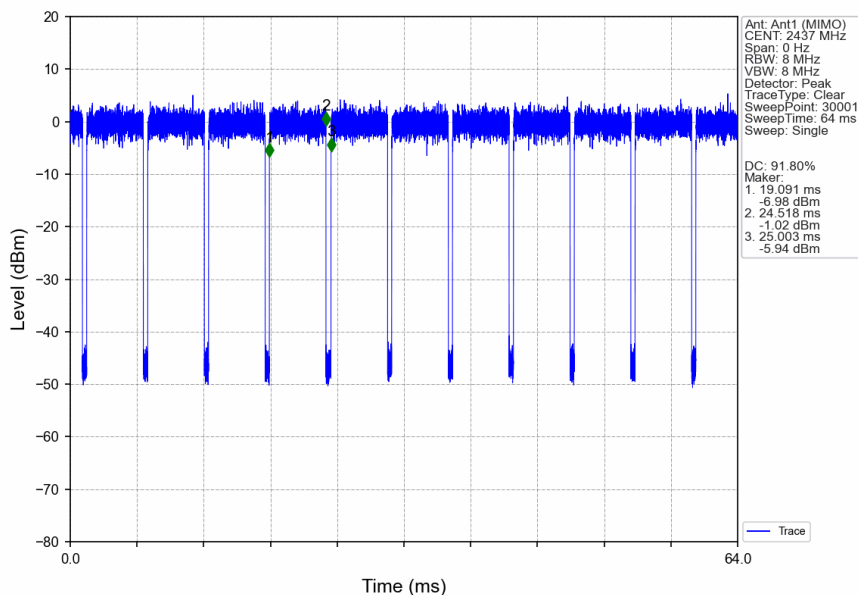
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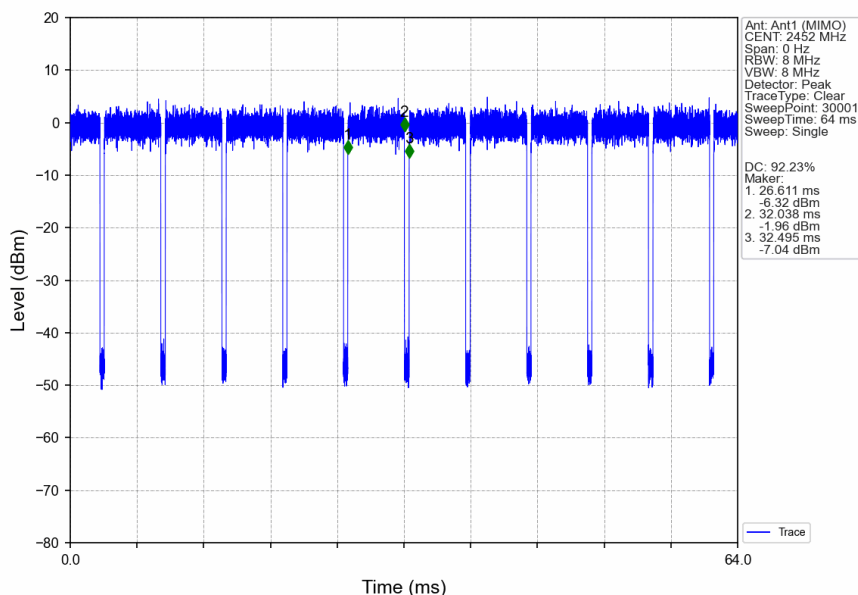
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



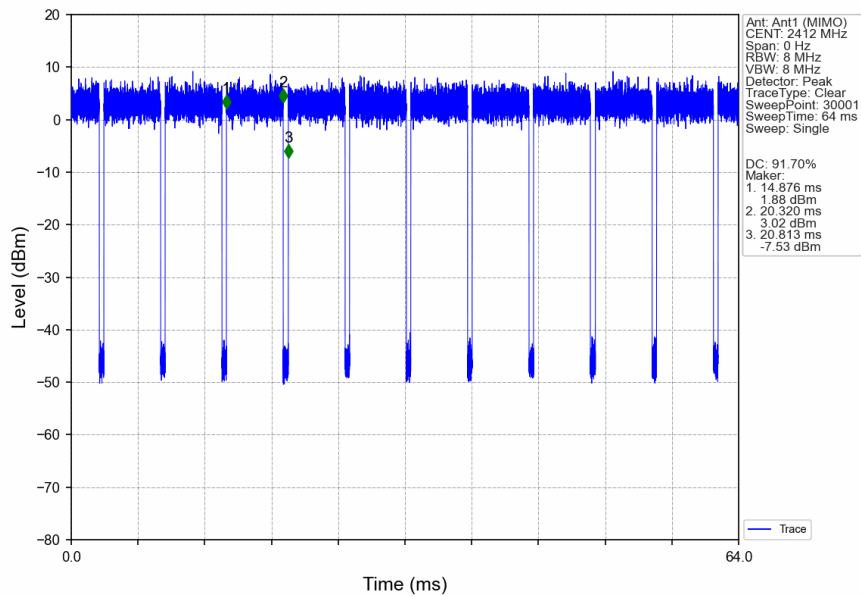
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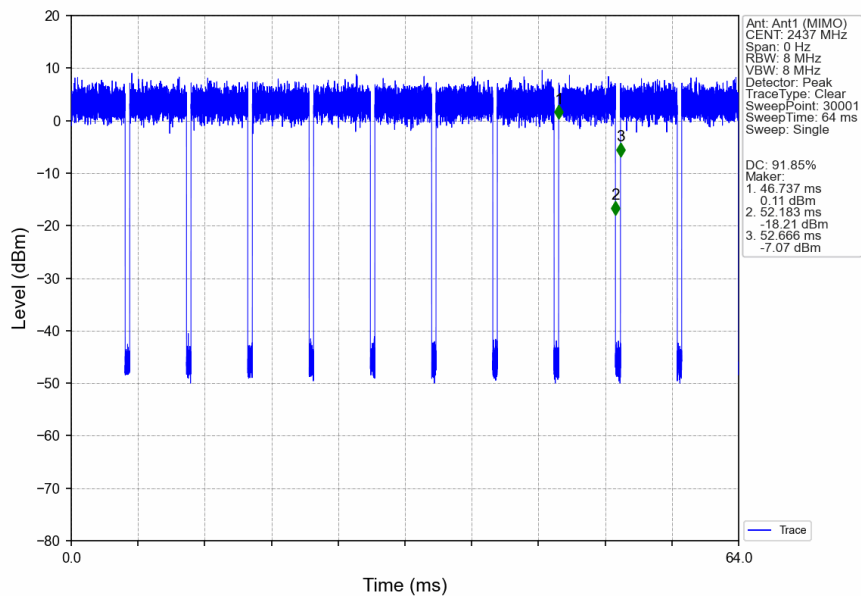
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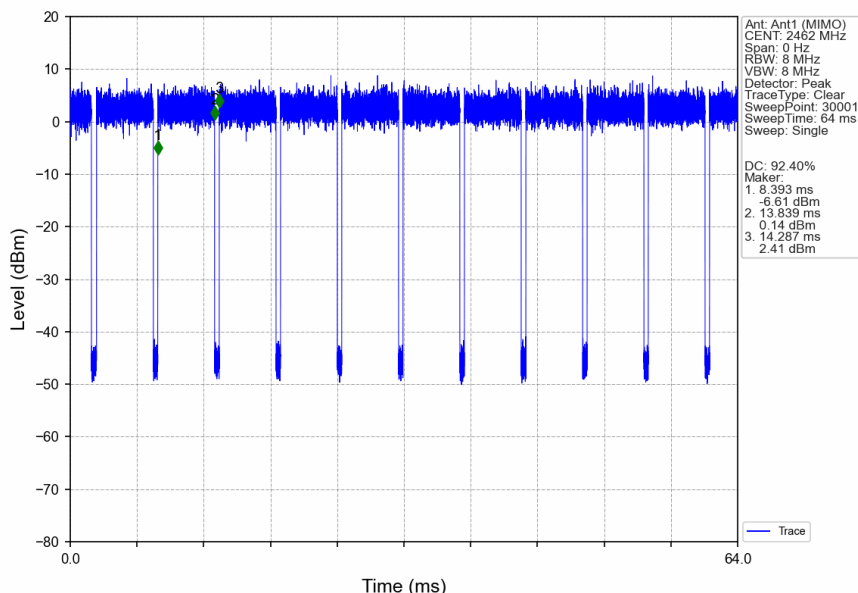
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



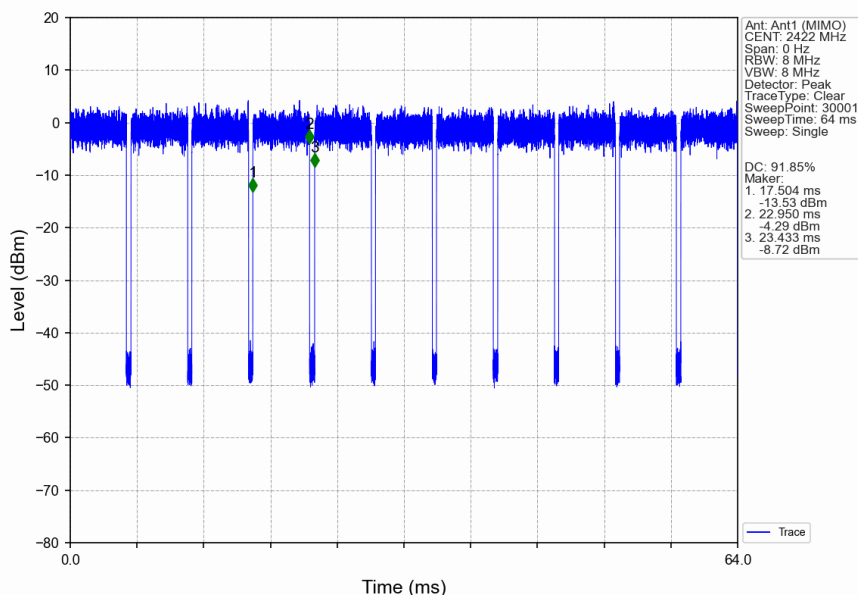
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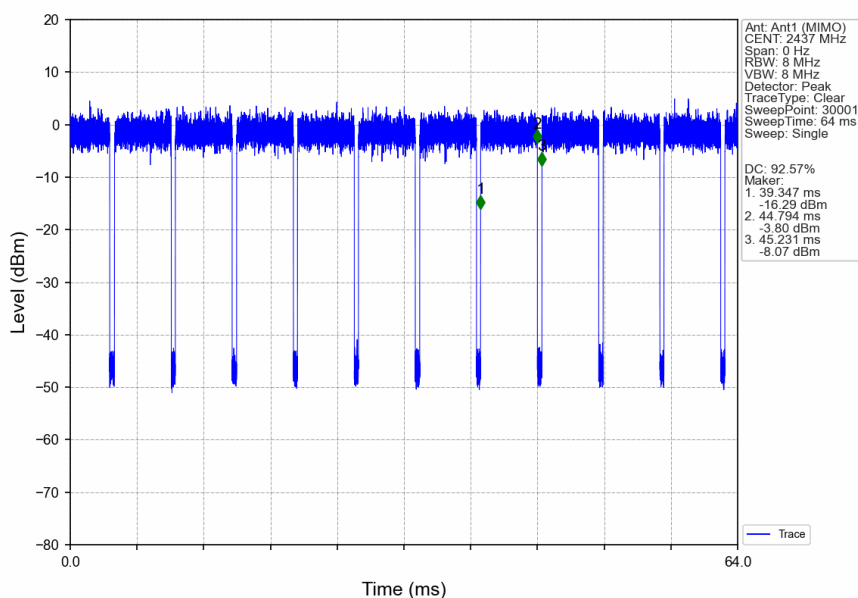
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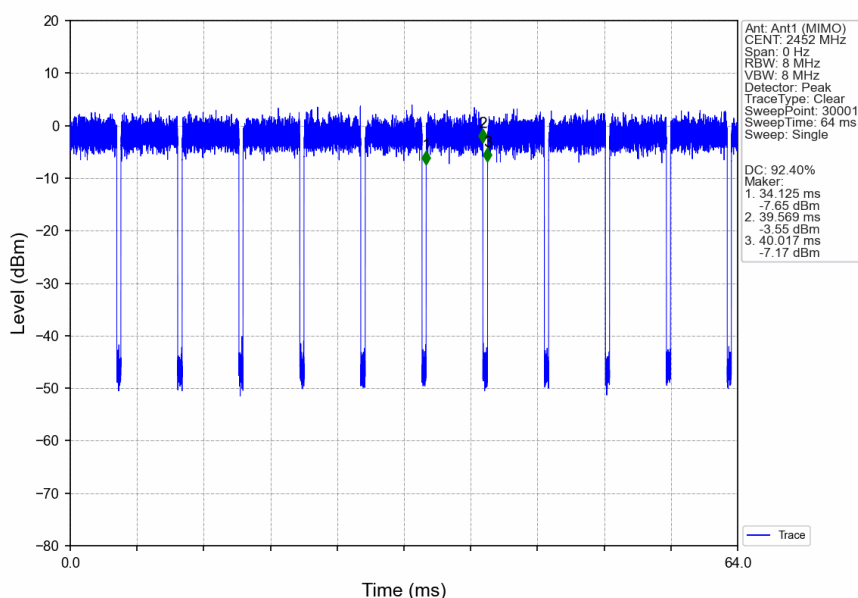
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



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	SISO	2412	/	/	1	13.137	/	Pass
		2437	/	/	1	13.158	/	Pass
		2462	/	/	1	13.173	/	Pass
802.11g	SISO	2412	/	/	1	16.703	/	Pass
		2437	/	/	1	16.693	/	Pass
		2462	/	/	1	16.745	/	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.885	/	Pass
		2437	/	/	1	17.885	/	Pass
		2462	/	/	1	17.916	/	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.218	/	Pass
		2437	/	/	1	36.251	/	Pass
		2452	/	/	1	36.298	/	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	19.081	/	Pass
		2437	RU242	Left	1	19.096	/	Pass
		2462	RU242	Left	1	19.090	/	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	38.027	/	Pass
		2437	RU484	Left	1	38.046	/	Pass
		2452	RU484	Left	1	38.011	/	Pass



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2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.192	>=0.5	Pass
		2437	/	/	1	8.148	>=0.5	Pass
		2462	/	/	1	8.148	>=0.5	Pass
802.11g	SISO	2412	/	/	1	15.870	>=0.5	Pass
		2437	/	/	1	15.748	>=0.5	Pass
		2462	/	/	1	15.770	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.099	>=0.5	Pass
		2437	/	/	1	16.577	>=0.5	Pass
		2462	/	/	1	17.054	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.455	>=0.5	Pass
		2437	/	/	1	35.532	>=0.5	Pass
		2452	/	/	1	35.530	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	16.907	>=0.5	Pass
		2437	RU242	Left	1	16.974	>=0.5	Pass
		2462	RU242	Left	1	17.117	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	34.564	>=0.5	Pass
		2437	RU484	Left	1	35.062	>=0.5	Pass
		2452	RU484	Left	1	28.215	>=0.5	Pass



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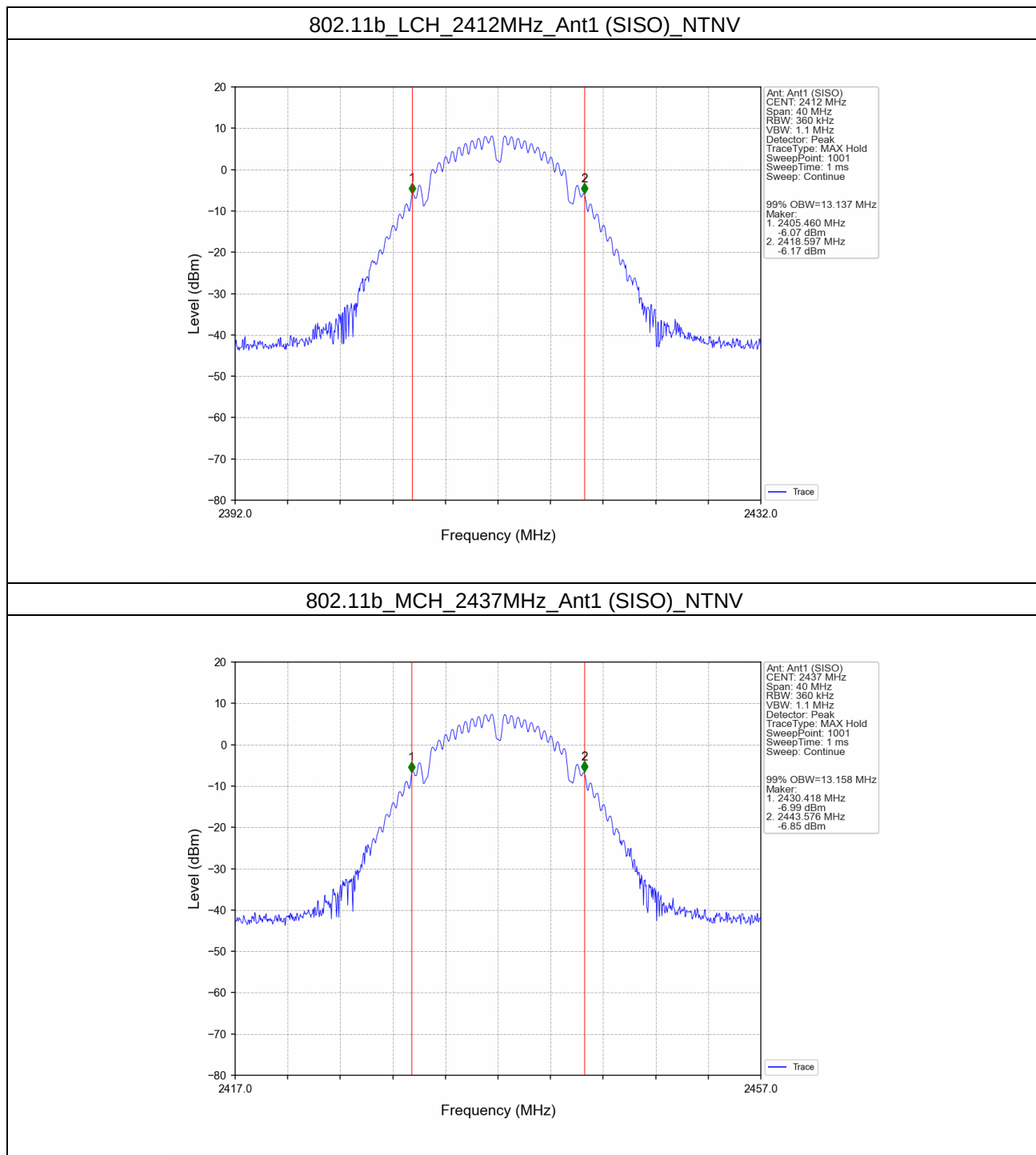
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2.2 Test Graph

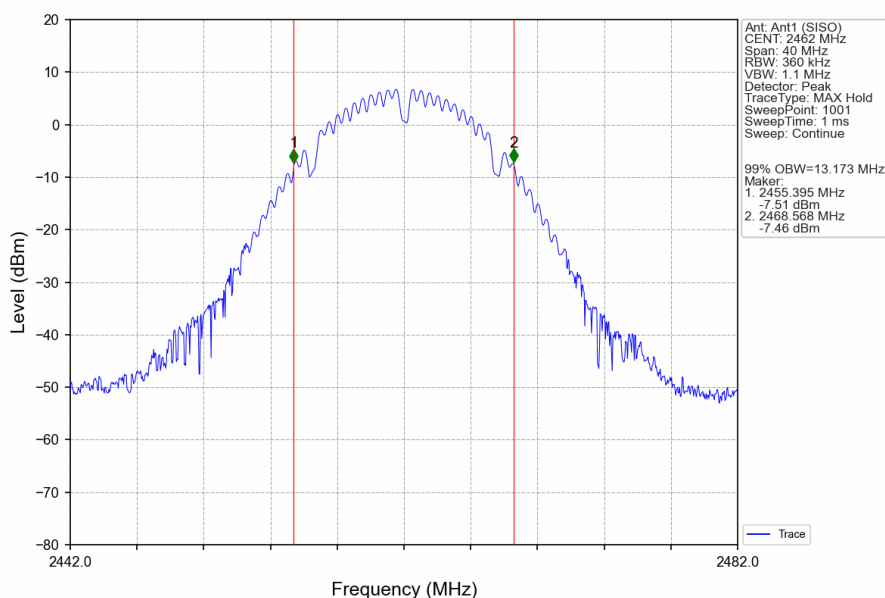
2.2.1 OBW



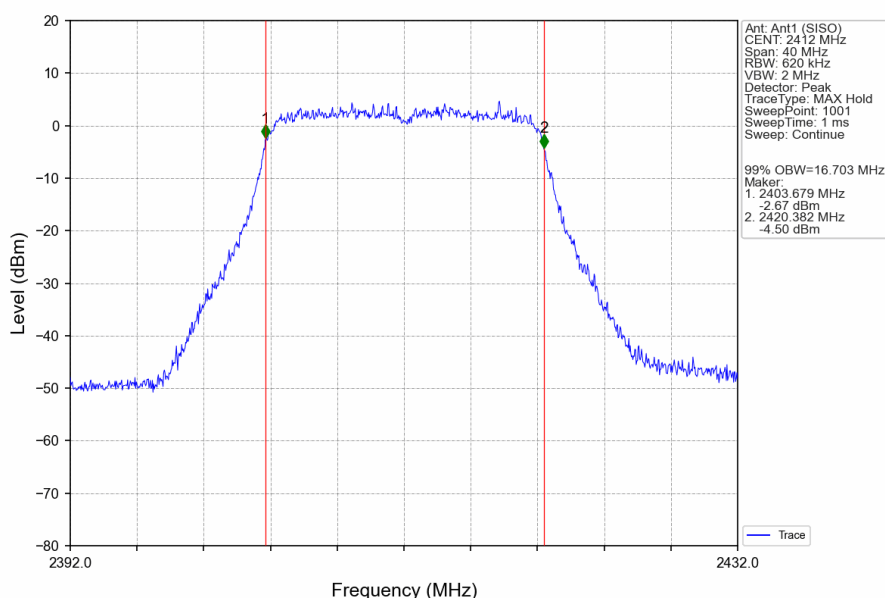
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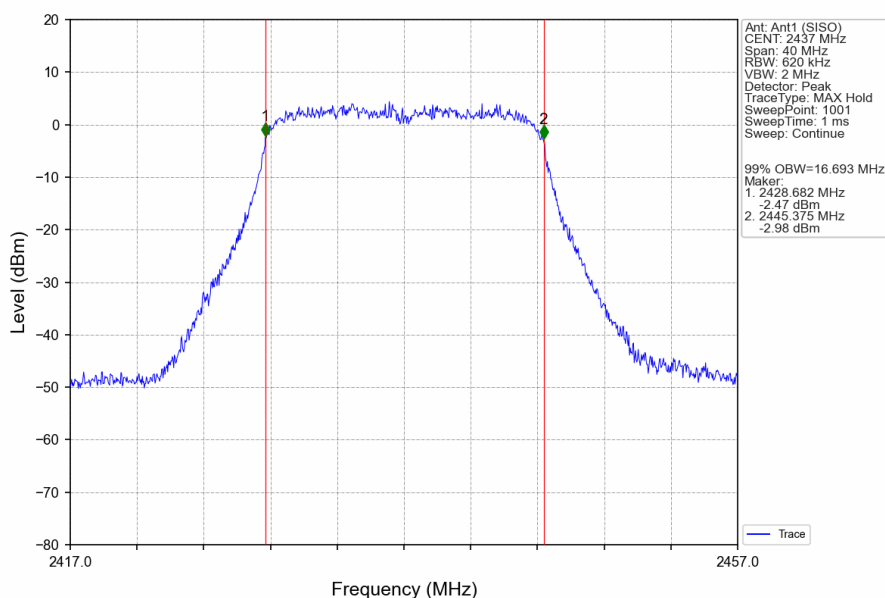
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



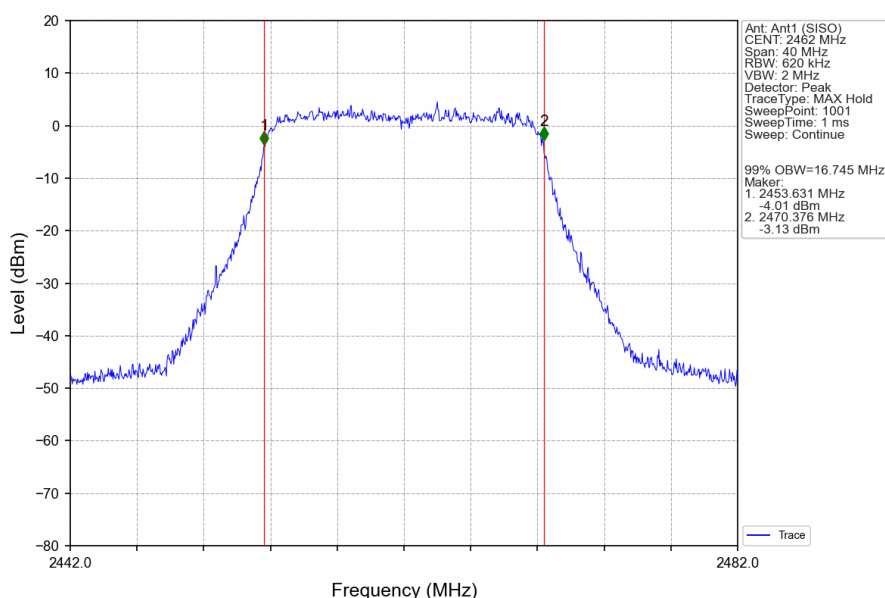
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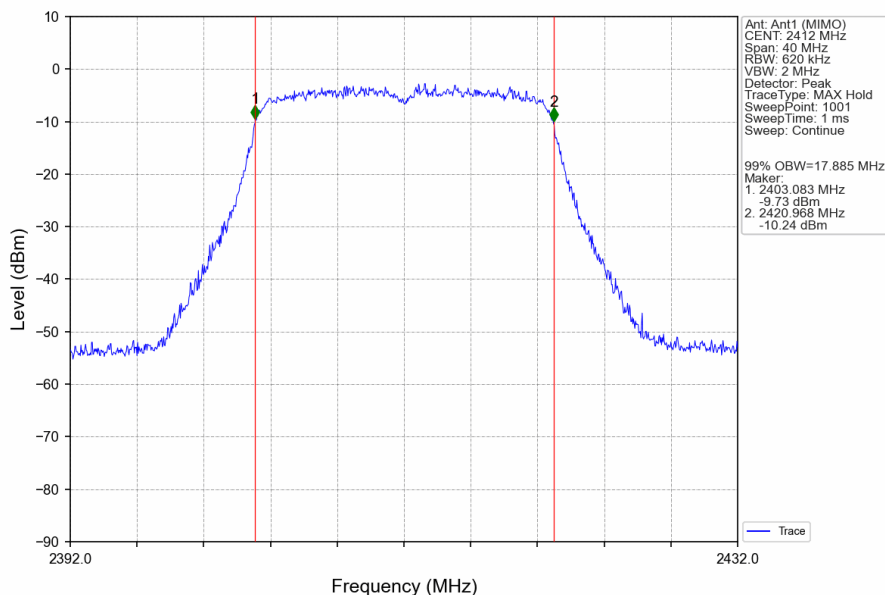
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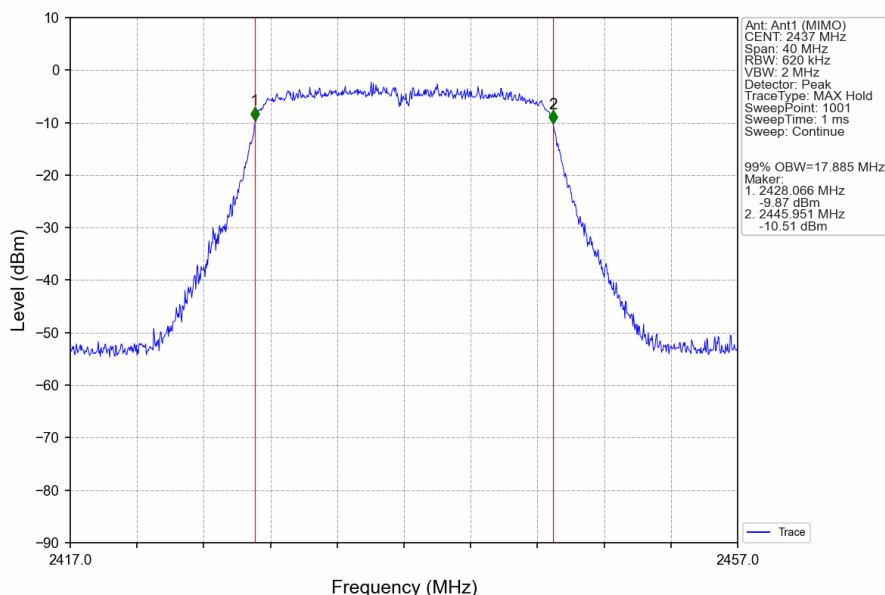
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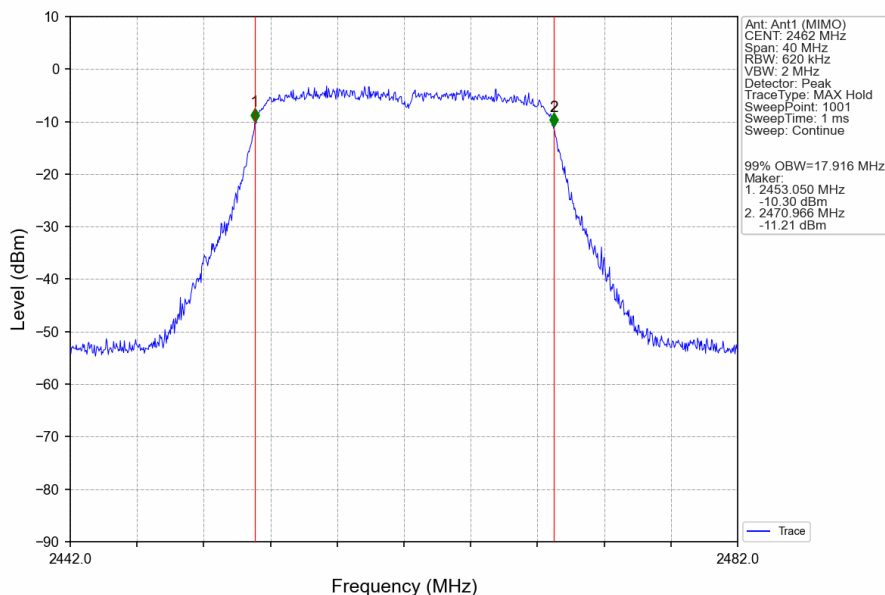
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



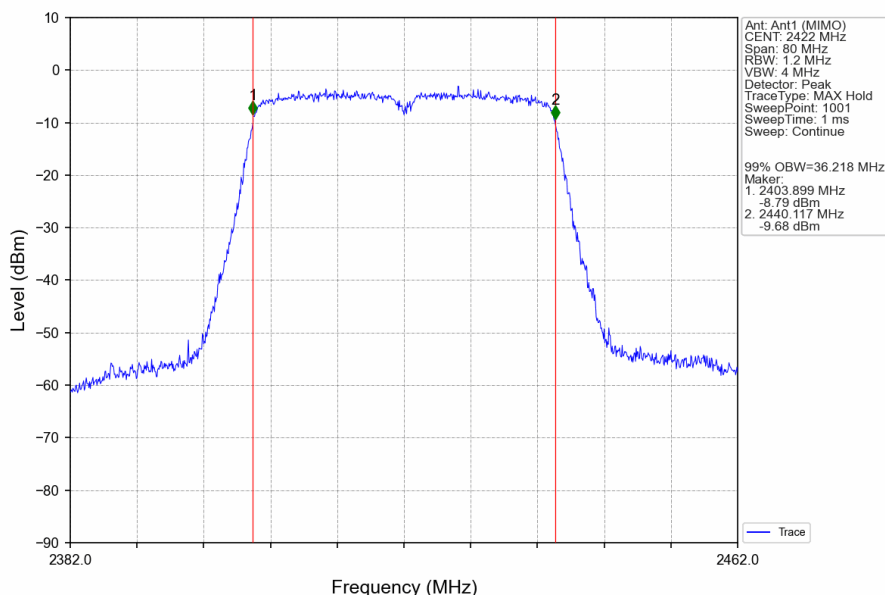
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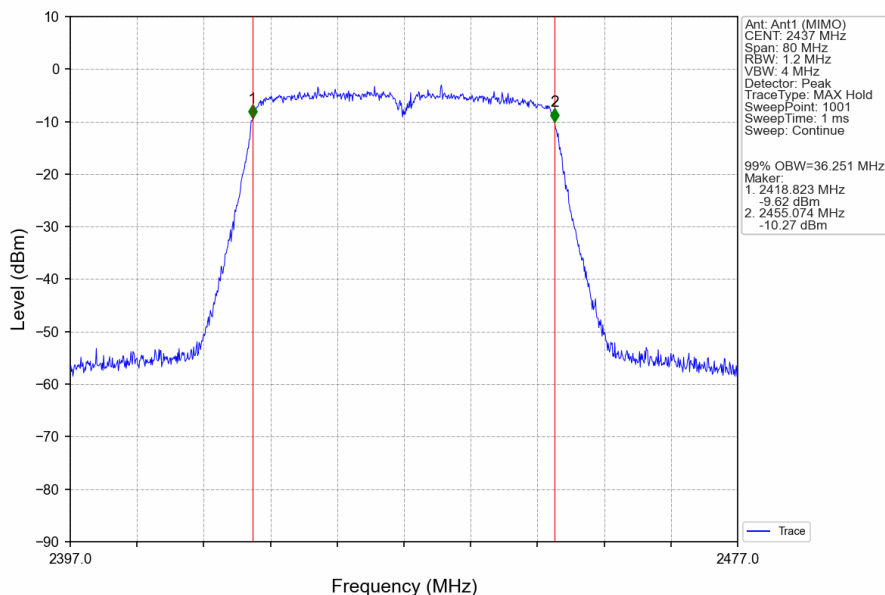
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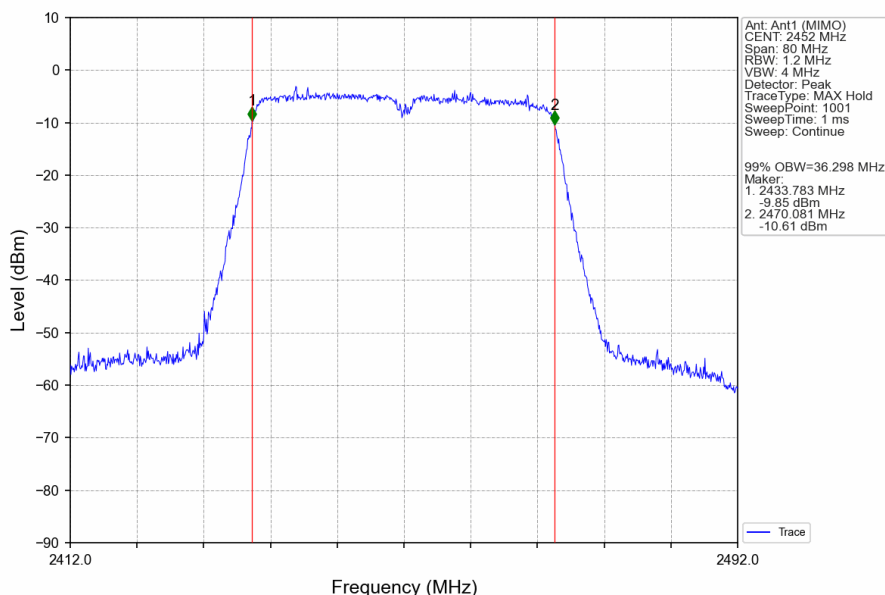
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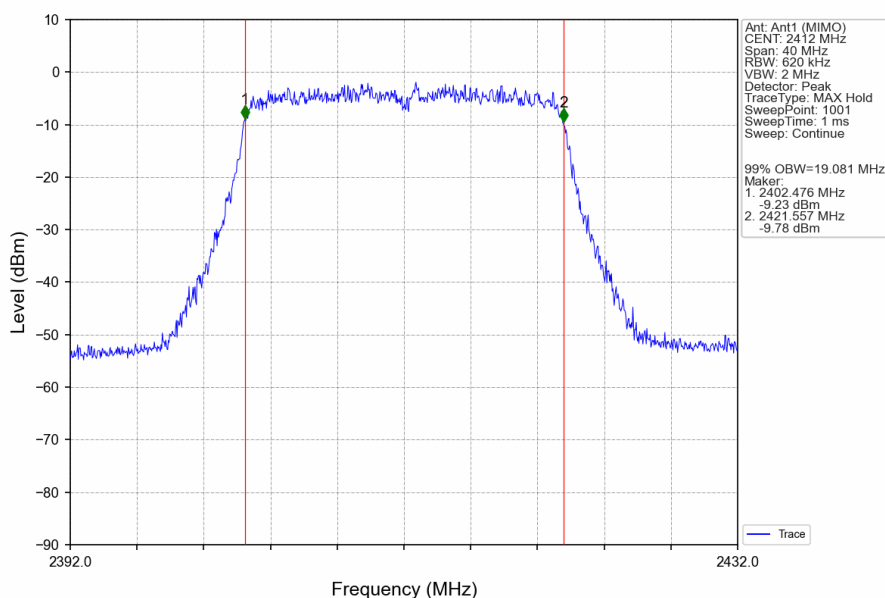
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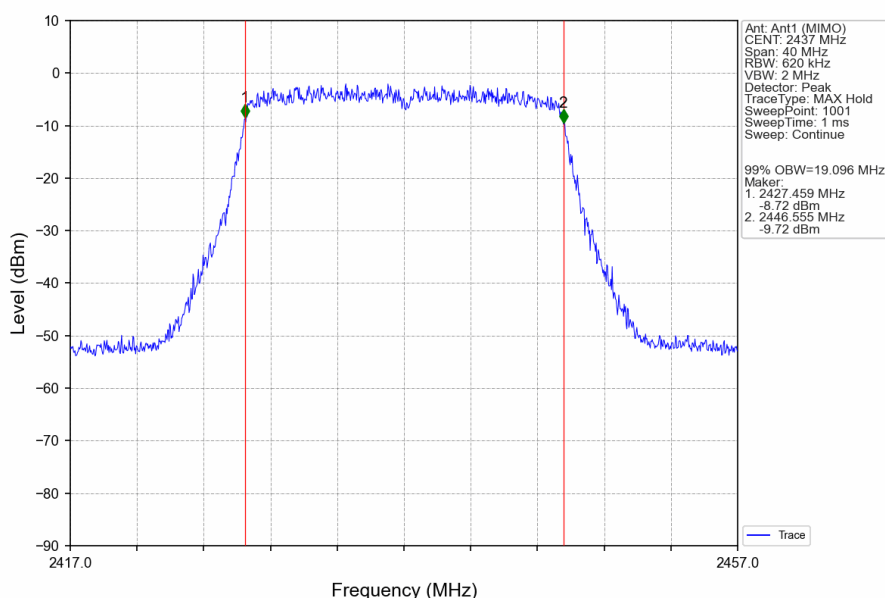
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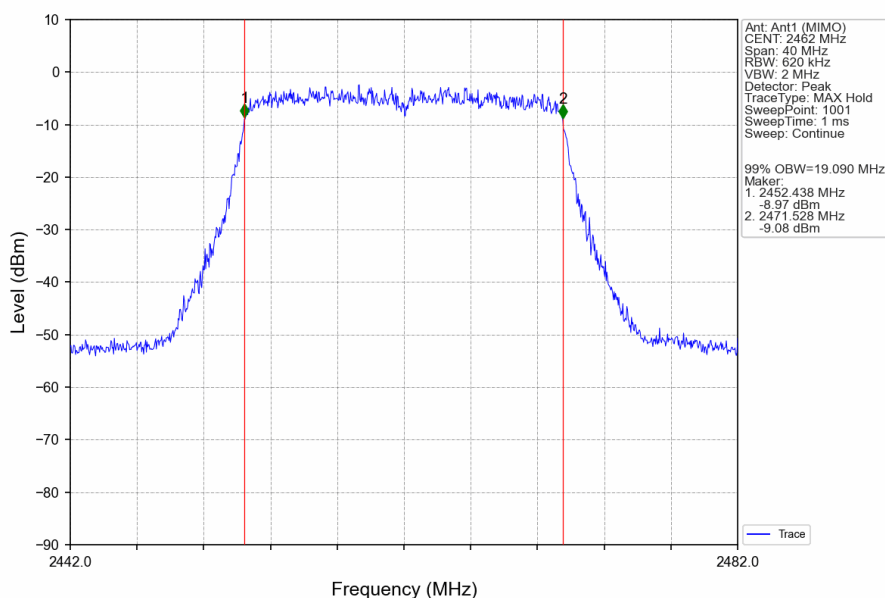
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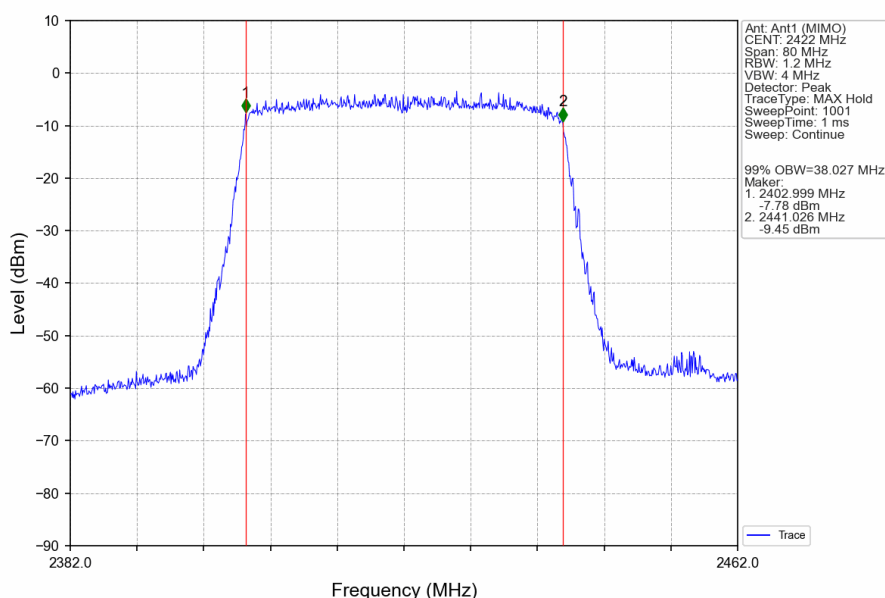
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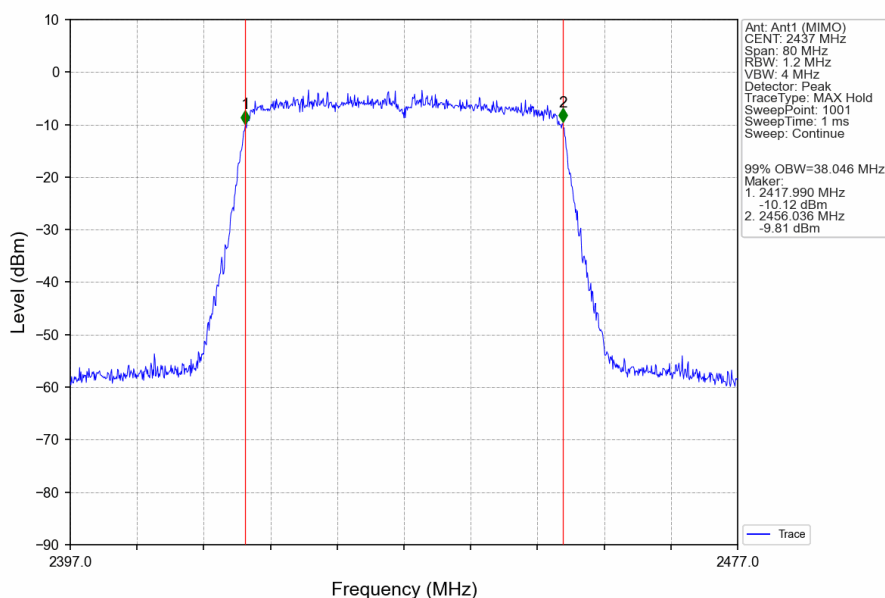
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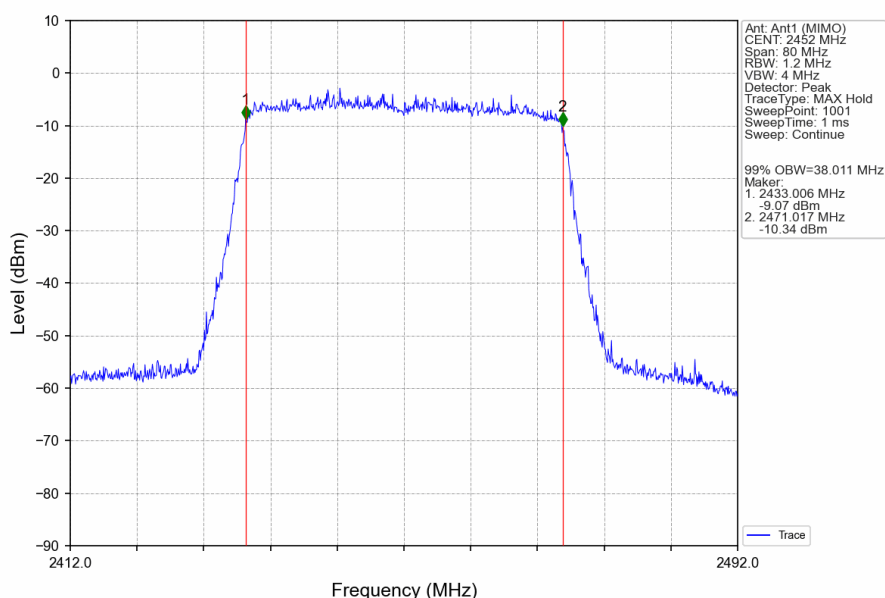
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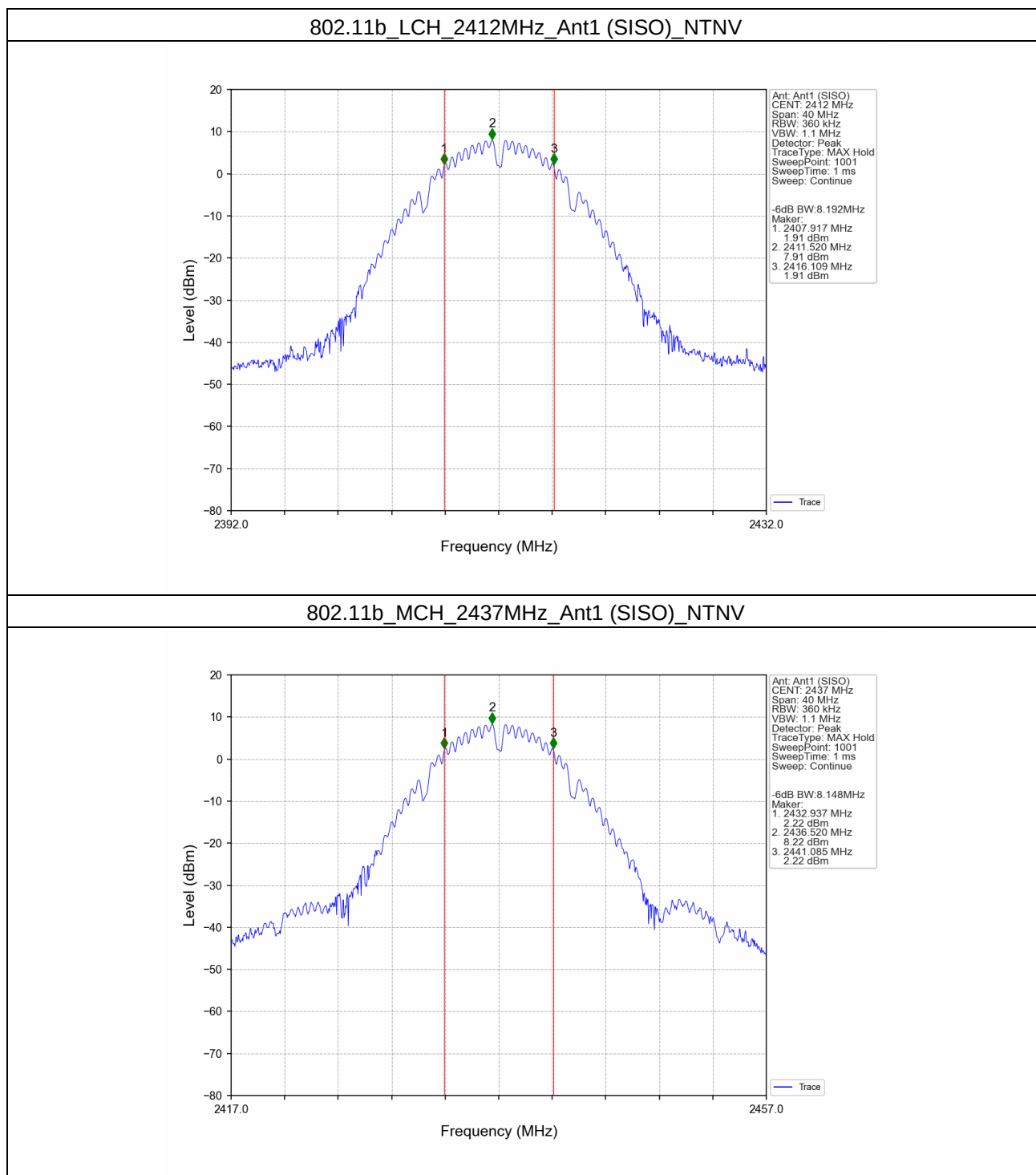
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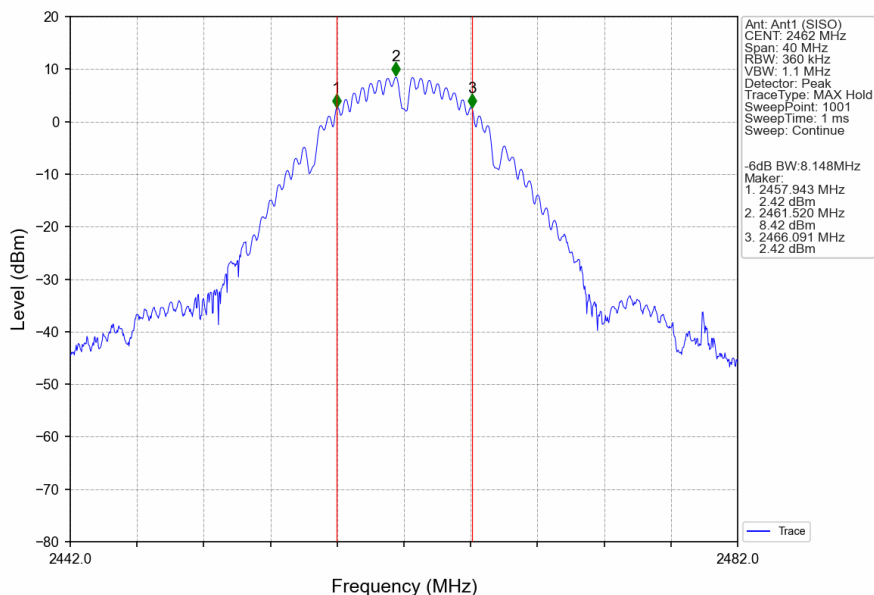
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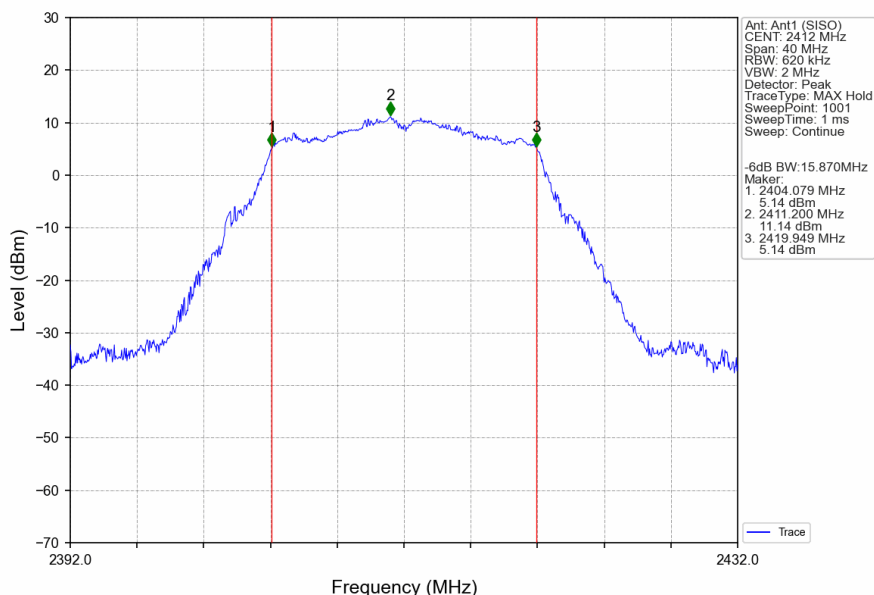
2.2.2 6dB BW



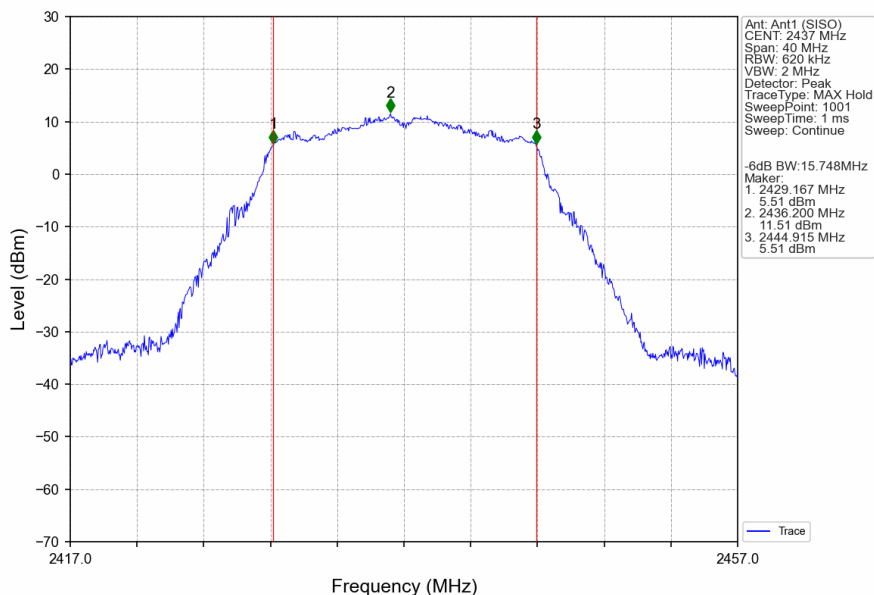
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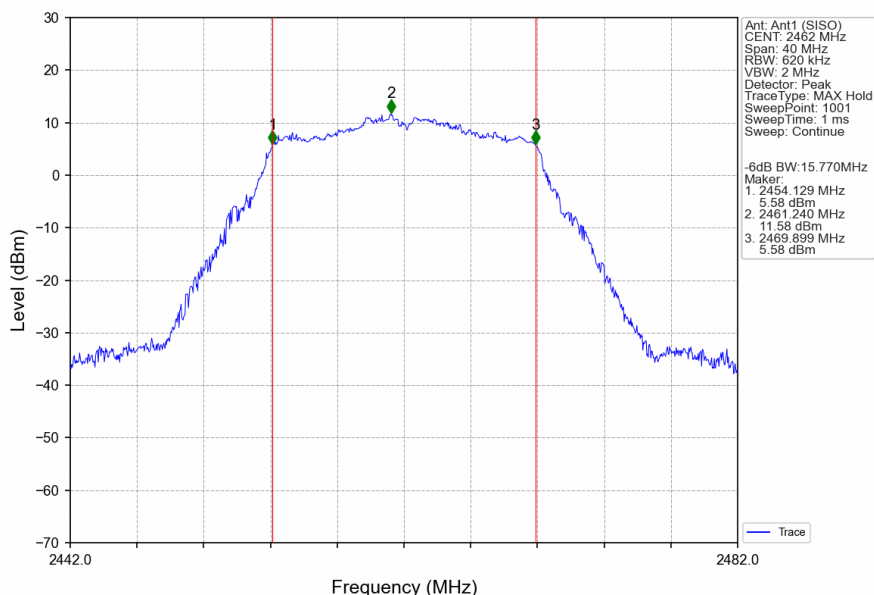
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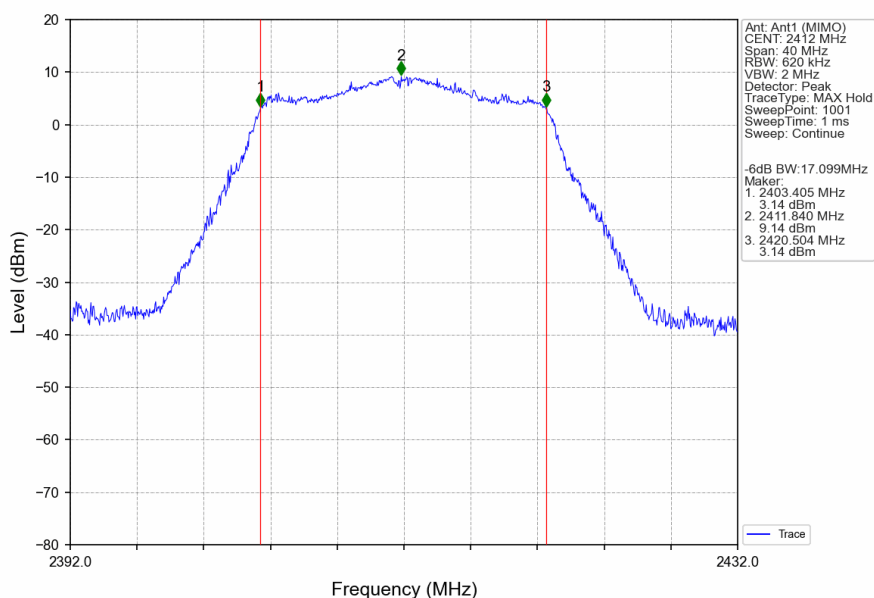
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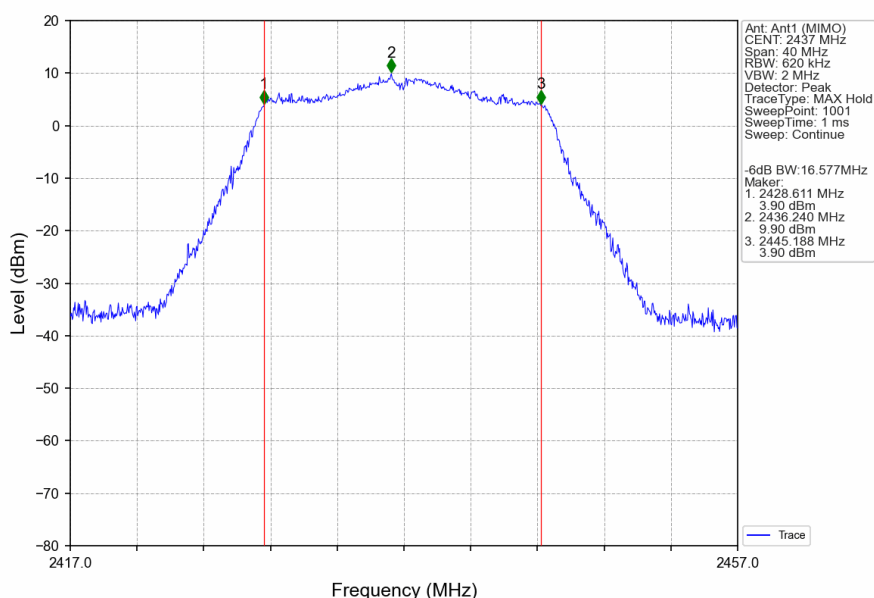
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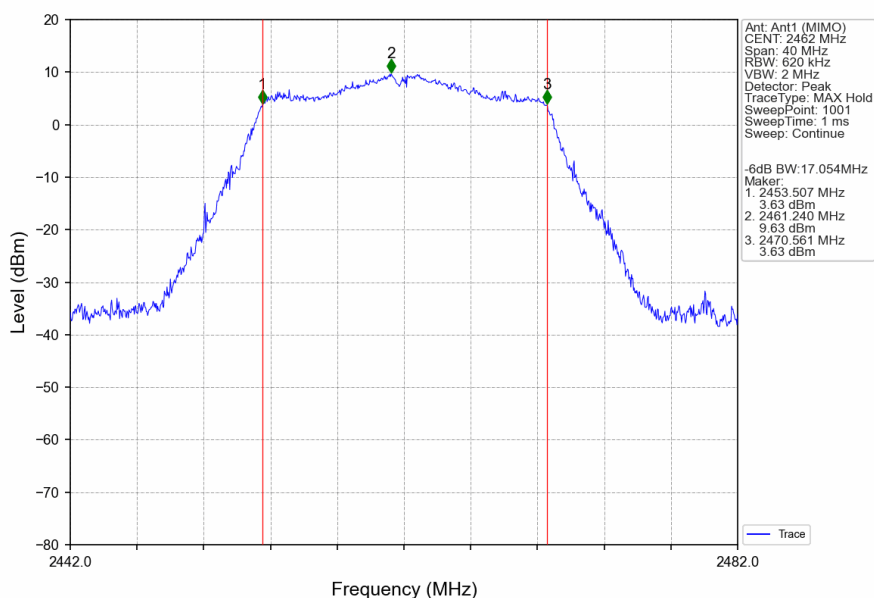
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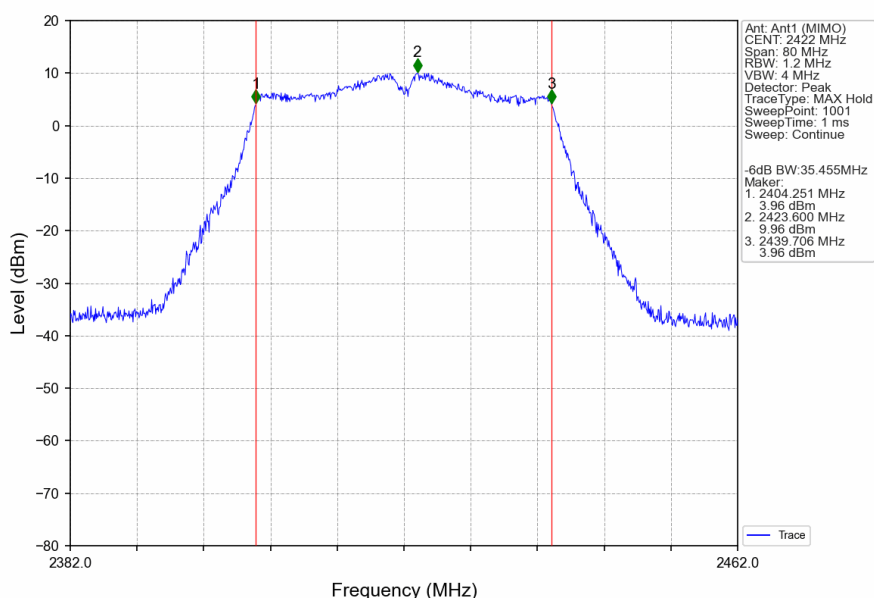
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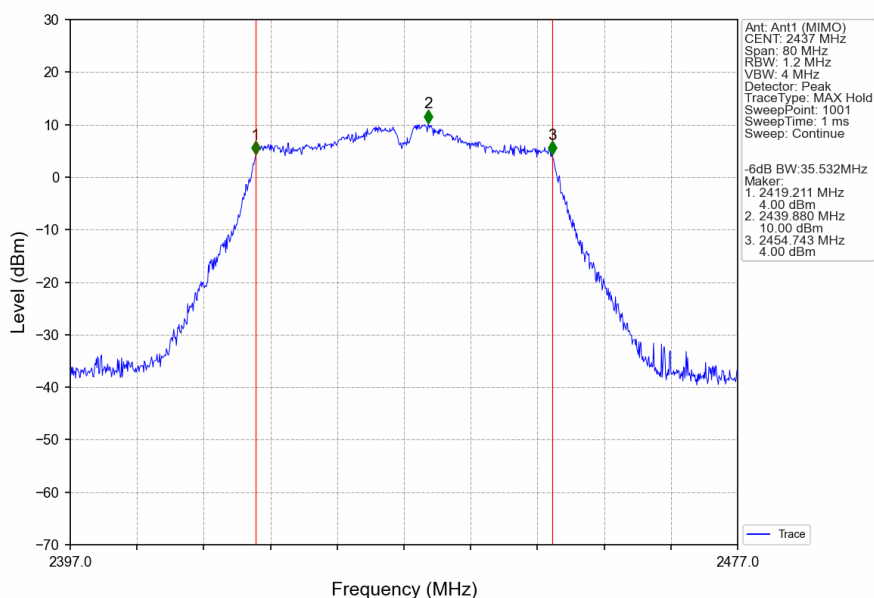
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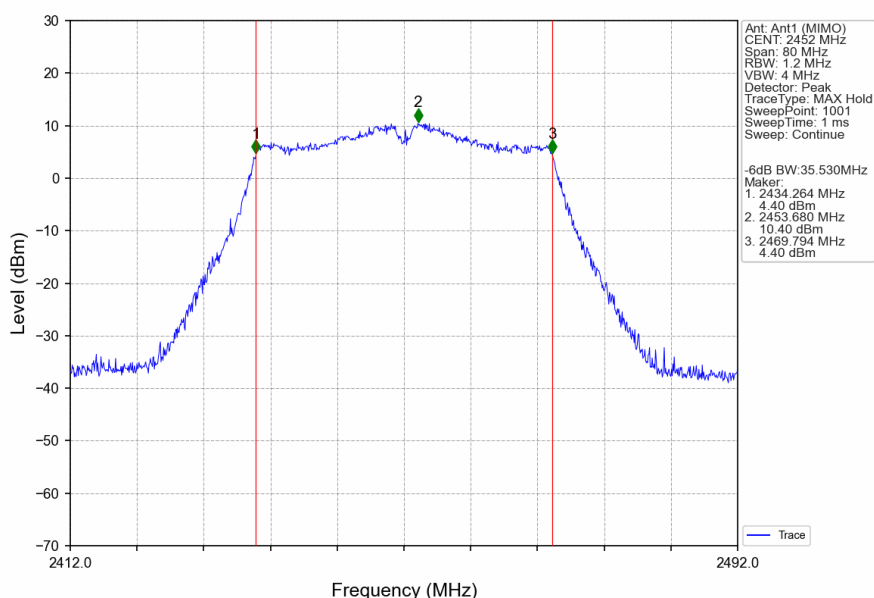
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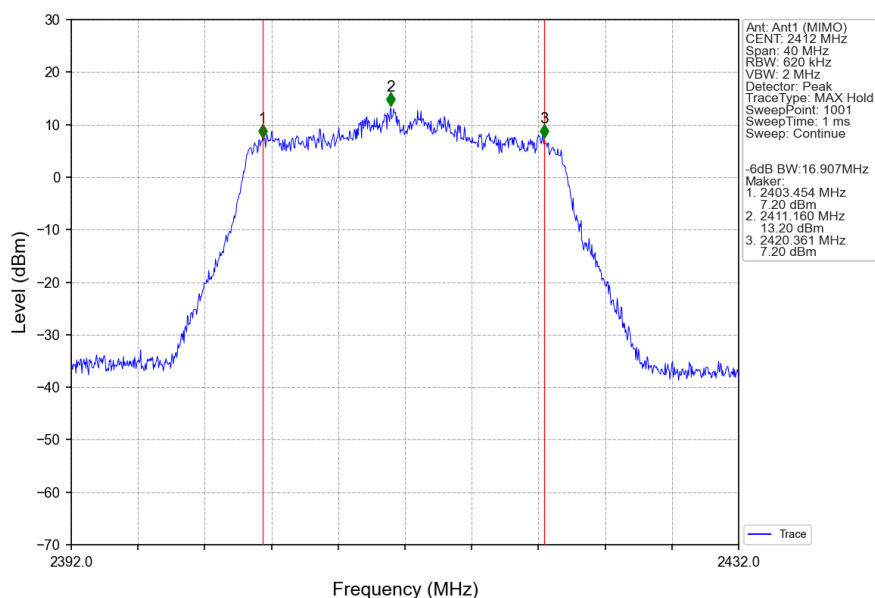
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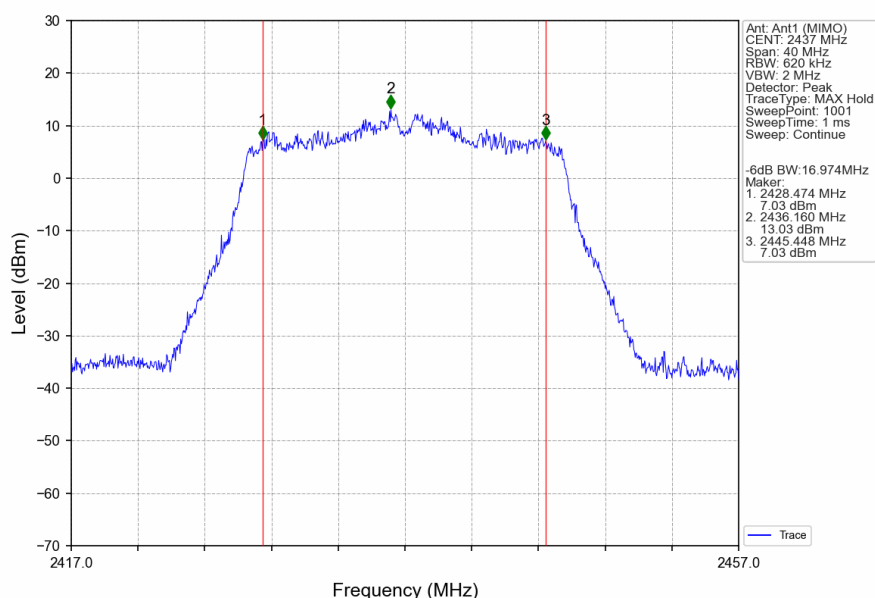
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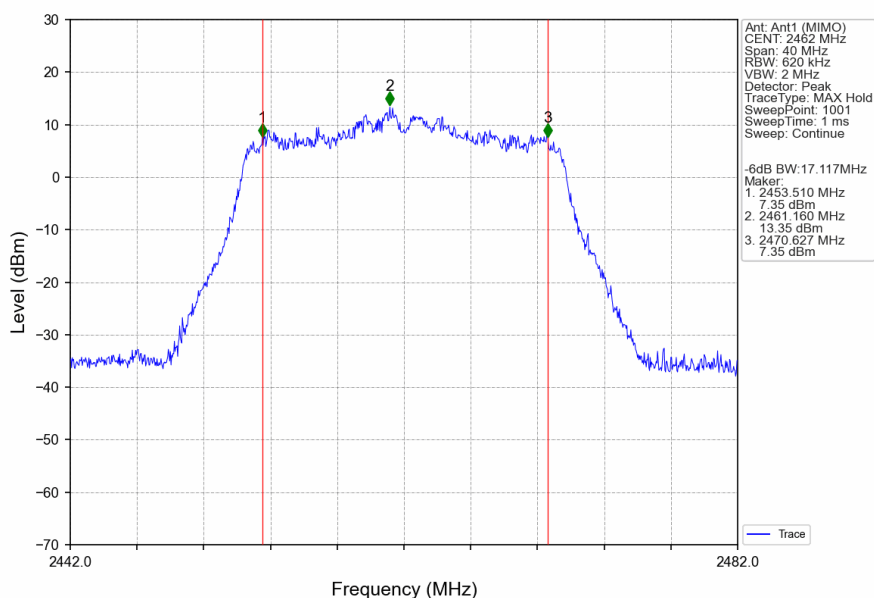
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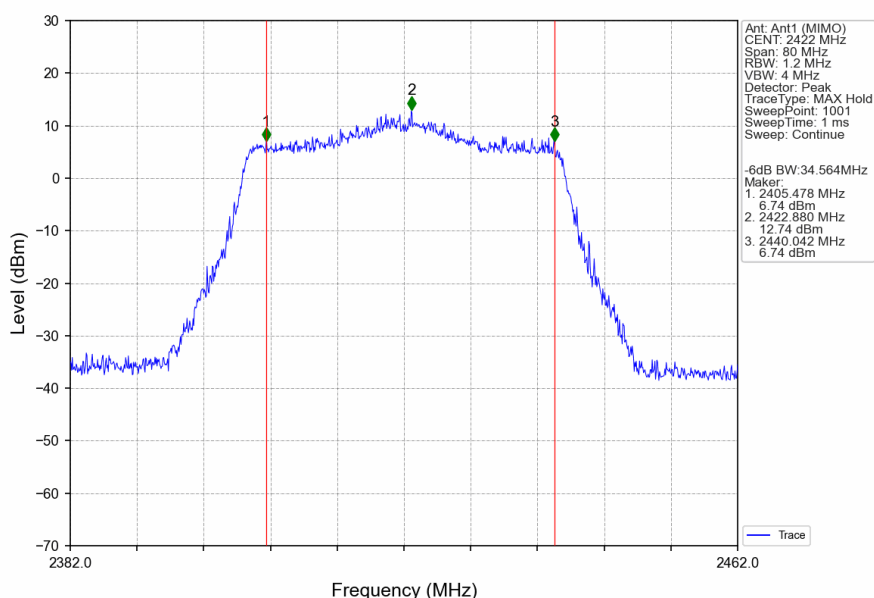
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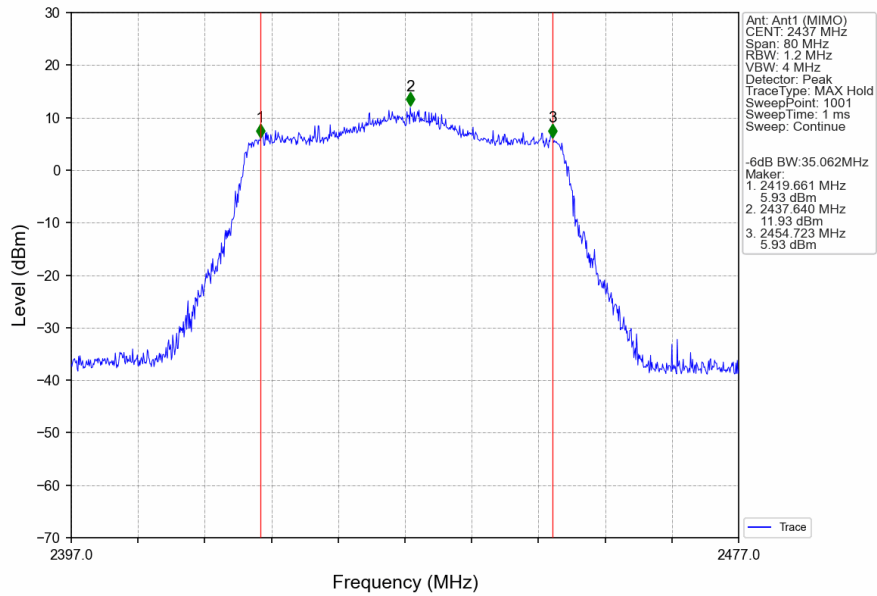
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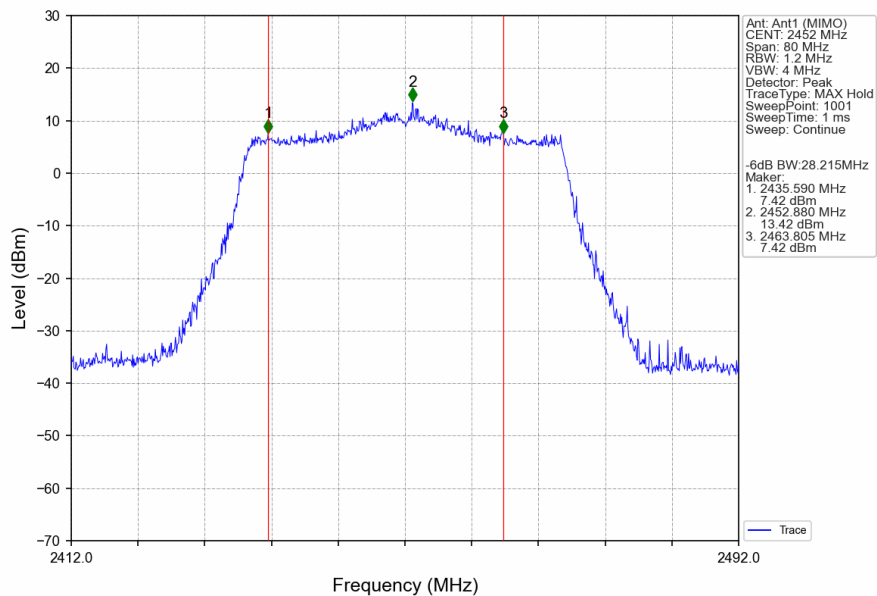
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	17.18	16.88	/	<=30	Pass
		2437	/	/	17.59	17.04	/	<=30	Pass
		2462	/	/	17.80	16.32	/	<=30	Pass
802.11g	SISO	2412	/	/	15.97	16.10	/	<=30	Pass
		2437	/	/	16.20	15.97	/	<=30	Pass
		2462	/	/	16.01	15.41	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	12.43	13.46	15.99	<=30	Pass
		2437	/	/	11.88	12.93	15.45	<=30	Pass
		2462	/	/	11.68	12.25	14.98	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	11.44	12.63	15.09	<=30	Pass
		2437	/	/	11.44	12.52	15.02	<=30	Pass
		2452	/	/	11.48	12.26	14.90	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	12.39	13.42	15.95	<=30	Pass
		2437	RU242	Left	12.46	13.37	15.95	<=30	Pass
		2462	RU242	Left	12.27	12.96	15.64	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	11.32	12.59	15.01	<=30	Pass
		2437	RU484	Left	11.61	12.55	15.12	<=30	Pass
		2452	RU484	Left	11.60	12.36	15.01	<=30	Pass



4. Maximum Power Spectral Density

4.1 Test Result

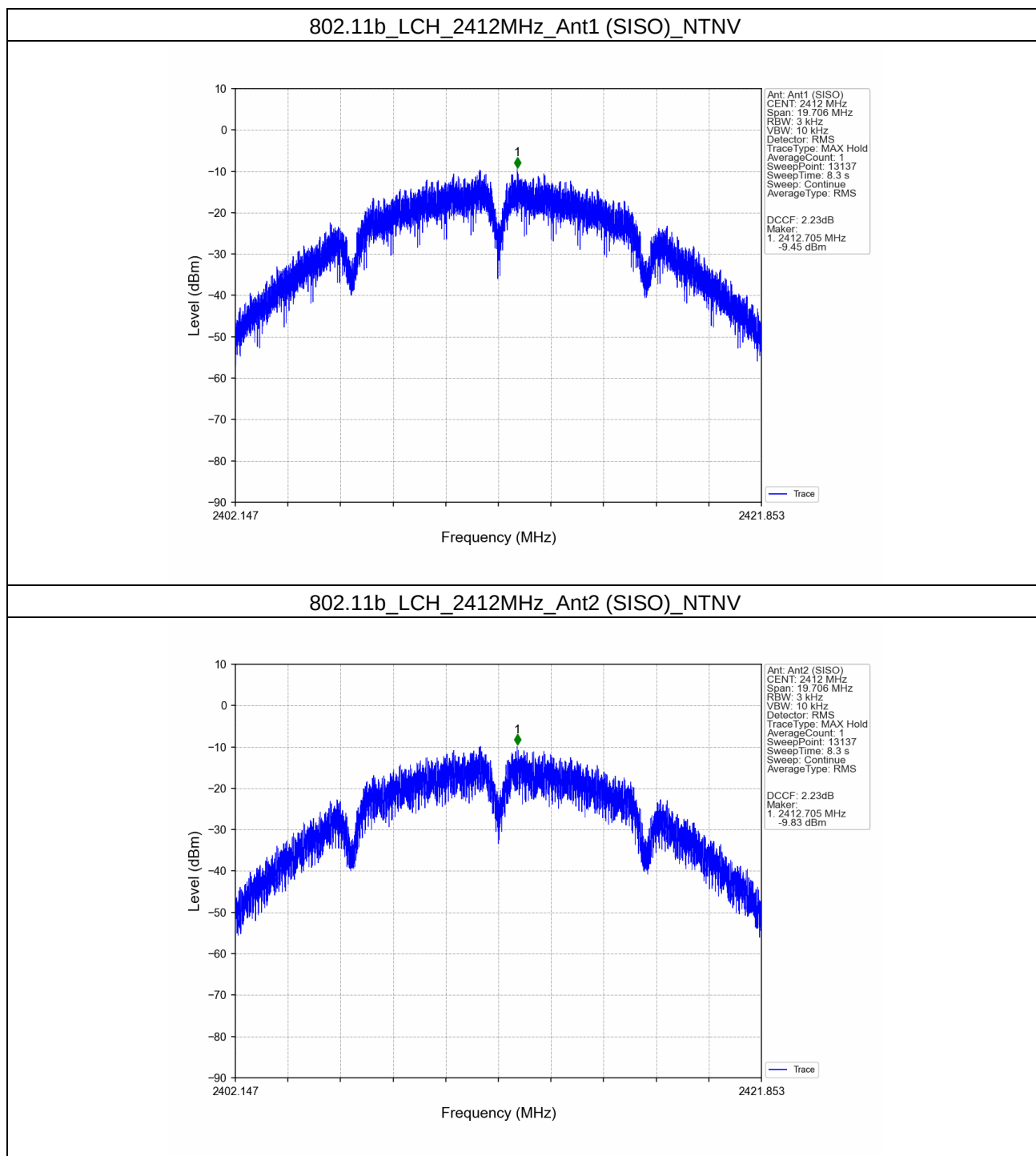
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	-9.45	-9.83	/	<=8	Pass
		2437	/	/	-9.14	-10.33	/	<=8	Pass
		2462	/	/	-8.84	-10.02	/	<=8	Pass
802.11g	SISO	2412	/	/	-17.80	-17.85	/	<=8	Pass
		2437	/	/	-17.32	-17.88	/	<=8	Pass
		2462	/	/	-15.78	-16.02	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-21.81	-20.71	-18.60	<=8	Pass
		2437	/	/	-22.21	-20.92	-19.02	<=8	Pass
		2462	/	/	-20.95	-20.25	-18.35	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-25.79	-24.39	-22.41	<=8	Pass
		2437	/	/	-26.50	-25.00	-22.99	<=8	Pass
		2452	/	/	-26.40	-25.22	-22.95	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	-22.80	-21.30	-18.98	<=8	Pass
		2437	RU242	Left	-22.86	-21.01	-18.97	<=8	Pass
		2462	RU242	Left	-22.51	-22.17	-19.45	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	-26.64	-24.77	-22.72	<=8	Pass
		2437	RU484	Left	-26.62	-25.33	-23.18	<=8	Pass
		2452	RU484	Left	-25.77	-25.36	-22.83	<=8	Pass

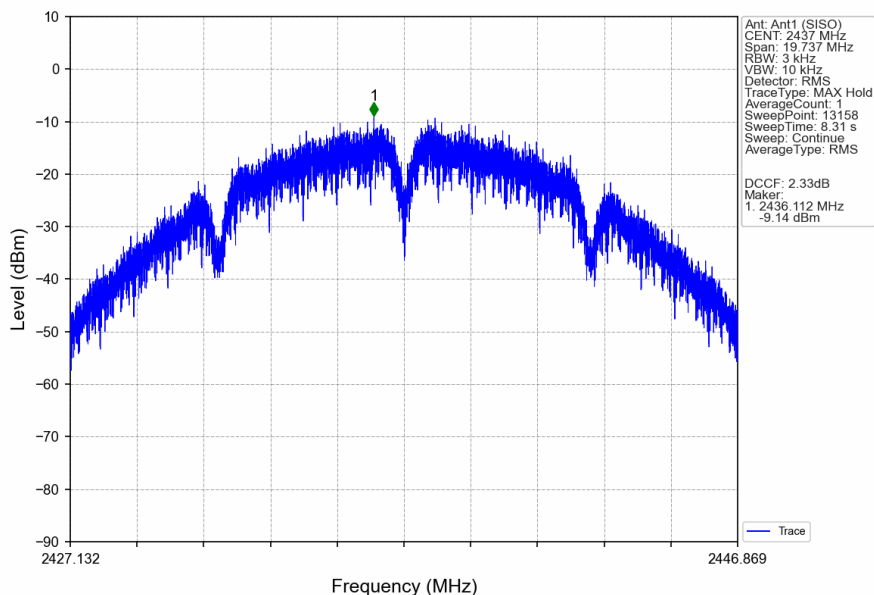


4.2 Test Graph

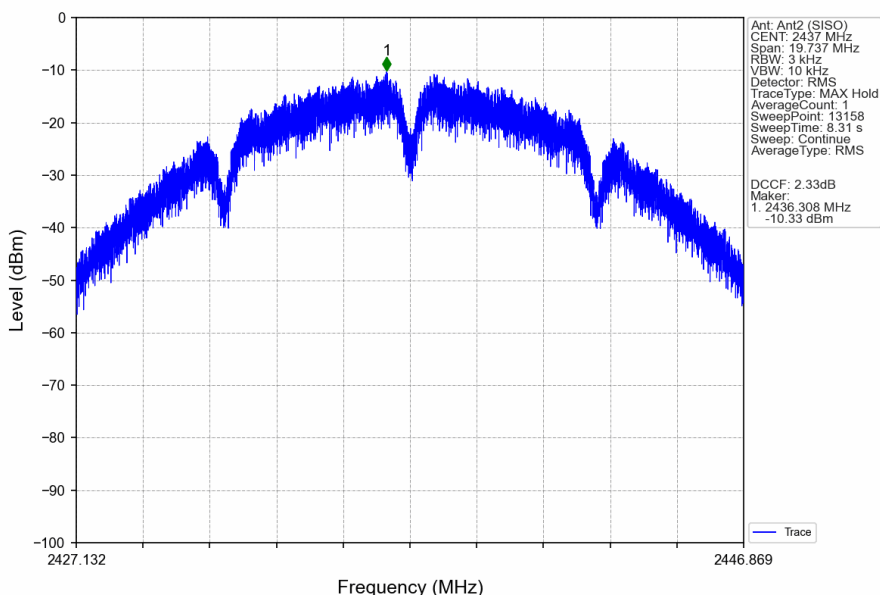
4.2.1 PSD



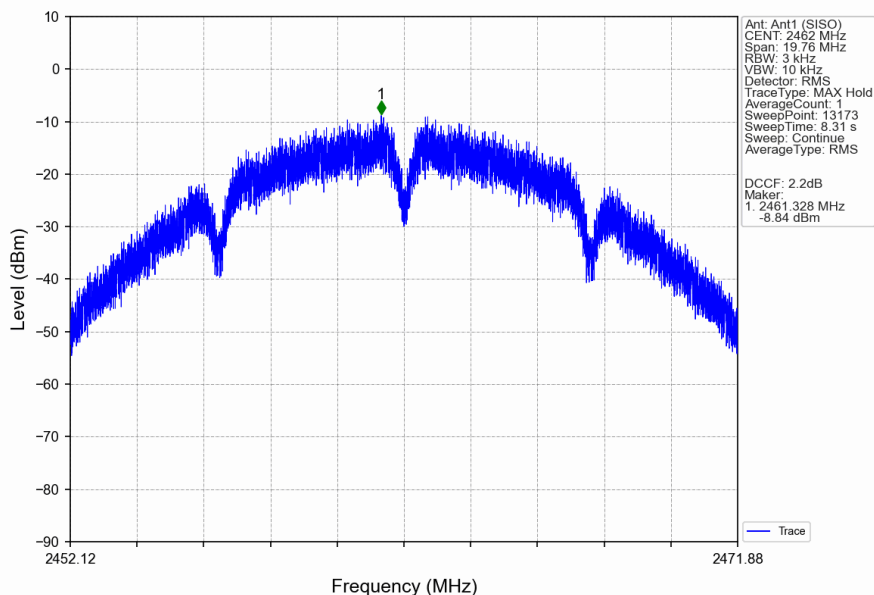
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

