

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700329106

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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 E 15.407
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***

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

Kenx. Xu

Keny Xu
EMC Laboratory ManagerSGS-CSTC Standards Technical Services Co., Ltd.
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 E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
In-Band Emissions		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (b)	Pass
Contention-based Protocol		KDB 987594 D02	47 CFR Part 15, Subpart E 15.407 (d)(6)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2020) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	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):	1.5dB
Operation Frequency/Number of channels:	U-NII-5:5955MHz-6415MHz, U-NII-6:6435MHz-6515MHz, U-NII-7:6535MHz-6855MHz, U-NII-8: 6895MHz-7115MHz
Modulation Type:	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11 ax 20: 20MHz; 802.11 ax 40: 40MHz; 802.11 ax 80: 80MHz; 802.11 ax 160: 160MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	ant0: U-NII-5:6.28dBi, U-NII-6: 3.51dBi, U-NII-7: 4.7dBi, U-NII-8: 3.25dBi; ant1:U-NII-5:6.65dBi, U-NII-6: 5.14dBi, U-NII-7: 6.3dBi, U-NII-8: 2.96dBi
Equipment class:	6XD

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 (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
In-Band Emissions	$\pm 2.84\text{dB}$
Duty Cycle	$\pm 0.37\%$



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99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Frequency Stability	$\pm 7.25 \times 10^{-8}$

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. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 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
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
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 (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 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

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

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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
Signal Generator	KEYSIGHT	N5173B	SEM006-05	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



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Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
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
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025-03-03	2026-03-02
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025-03-03	2026-03-02
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2025-03-03	2026-03-02
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-27	2024-09-11 2025-09-10	2025-09-10 2026-09-09

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

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 are ant0: U-NII-5:6.28dBi, U-NII-6: 3.51dBi, U-NII-7: 4.7dBi, U-NII-8: 3.25dBi; ant1:U-NII-5:6.65dBi, U-NII-6: 5.14dBi, U-NII-7: 6.3dBi, U-NII-8: 2.96dBi, directional gain: U-NII-5:6.65dBi, U-NII-6: 5.14dBi, U-NII-7: 6.3dBi, U-NII-8: 3.25dBi

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 & Subpart E 15.407 b(9)

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 44.5 % RH

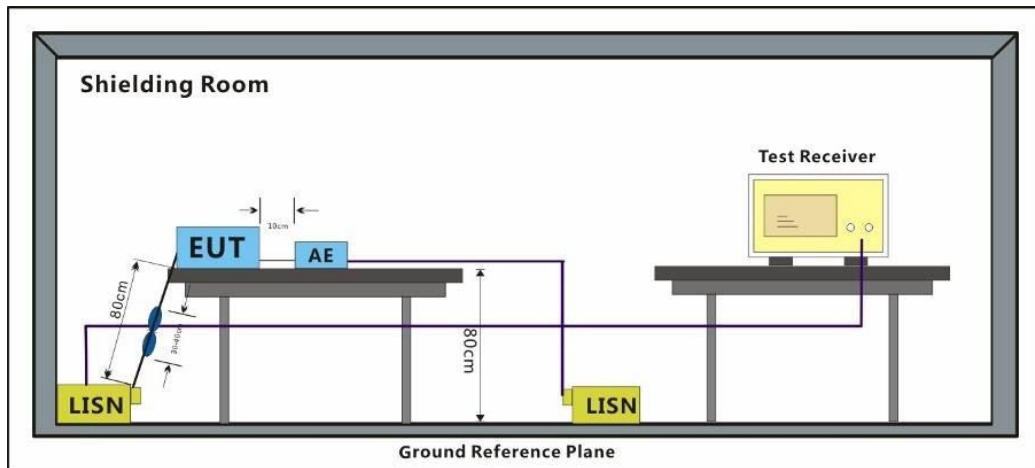
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-8) _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



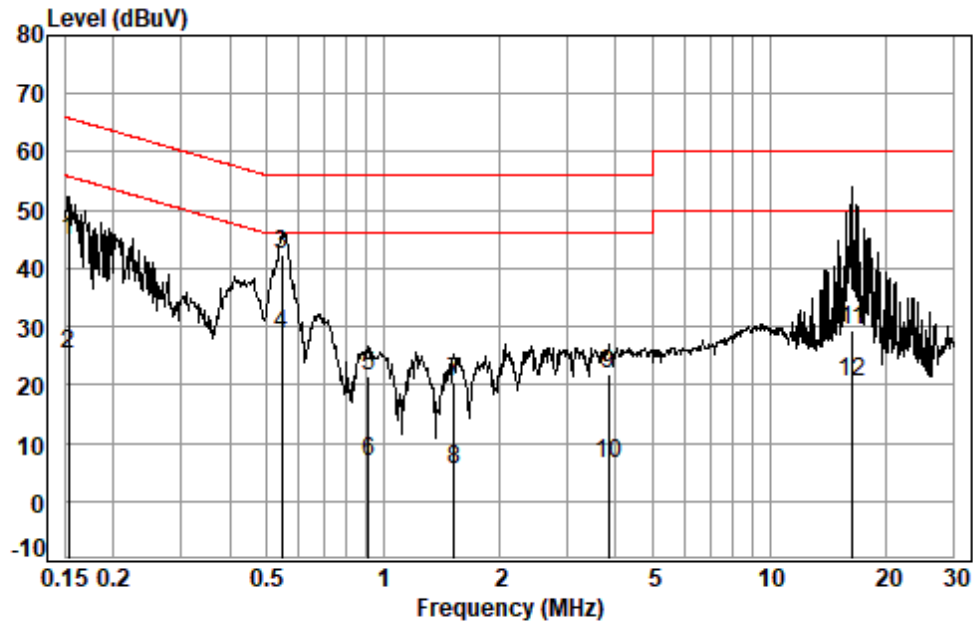
7.1.4 Measurement Procedure and Data

- 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 1: Level=Read Level+ Cable Loss+ LISN Factor

Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.

Test Mode: 09; Line: Live line

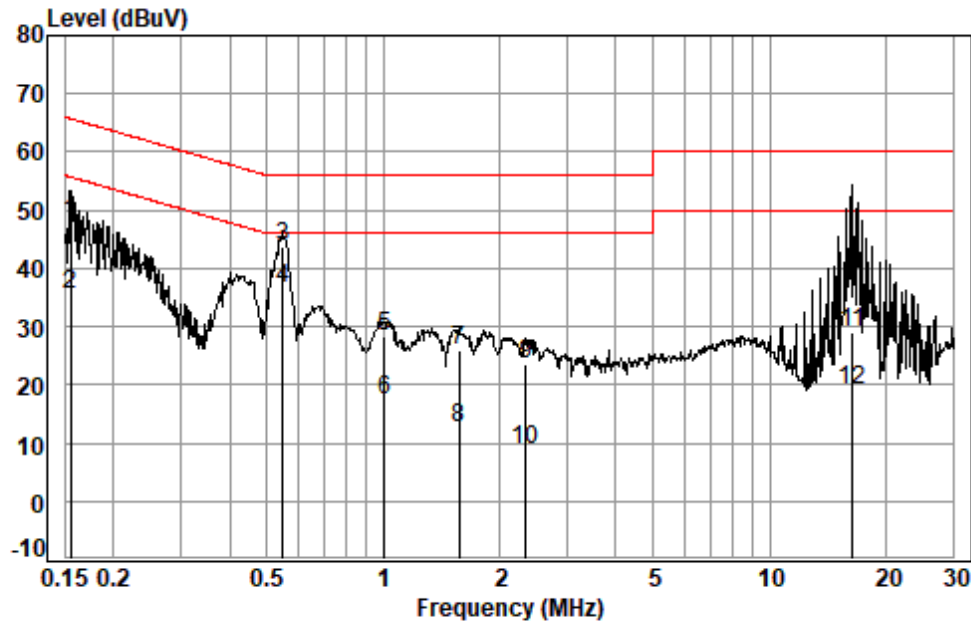


Site : Shielding Room
Condition: Line
Job No. : 03291AT/03292AT
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.05	10.19	34.47	44.71	65.82	-21.11	QP
2	0.1532	0.05	10.19	14.92	25.16	55.82	-30.66	Average
3 *	0.5464	0.08	9.57	32.77	42.42	56.00	-13.58	QP
4 *	0.5464	0.08	9.57	19.03	28.68	46.00	-17.32	Average
5	0.9136	0.10	9.60	11.79	21.49	56.00	-34.51	QP
6	0.9136	0.10	9.60	-2.79	6.91	46.00	-39.09	Average
7	1.5274	0.11	9.58	10.62	20.31	56.00	-35.69	QP
8	1.5274	0.11	9.58	-4.22	5.47	46.00	-40.53	Average
9	3.8399	0.13	9.65	12.05	21.83	56.00	-34.17	QP
10	3.8399	0.13	9.65	-3.30	6.48	46.00	-39.52	Average
11	16.3985	0.29	10.00	18.99	29.28	60.00	-30.72	QP
12	16.3985	0.29	10.00	10.12	20.41	50.00	-29.59	Average



Test Mode: 09; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03291AT/03292AT
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.05	10.14	37.71	47.90	65.74	-17.84	QP
2	0.1548	0.05	10.14	25.25	35.44	55.74	-20.30	Average
3 *	0.5493	0.08	9.69	34.08	43.85	56.00	-12.15	QP
4 *	0.5493	0.08	9.69	26.85	36.62	46.00	-9.38	Average
5	1.0050	0.10	9.54	18.78	28.42	56.00	-27.58	QP
6	1.0050	0.10	9.54	7.85	17.49	46.00	-28.51	Average
7	1.5684	0.11	9.55	16.34	26.00	56.00	-30.00	QP
8	1.5684	0.11	9.55	2.92	12.58	46.00	-33.42	Average
9	2.3460	0.12	9.55	14.01	23.68	56.00	-32.32	QP
10	2.3460	0.12	9.55	-0.75	8.92	46.00	-37.08	Average
11	16.3985	0.29	9.94	18.68	28.91	60.00	-31.09	QP
12	16.3985	0.29	9.94	8.72	18.95	50.00	-31.05	Average



7.2 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

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

Measurement Distance: 3m

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

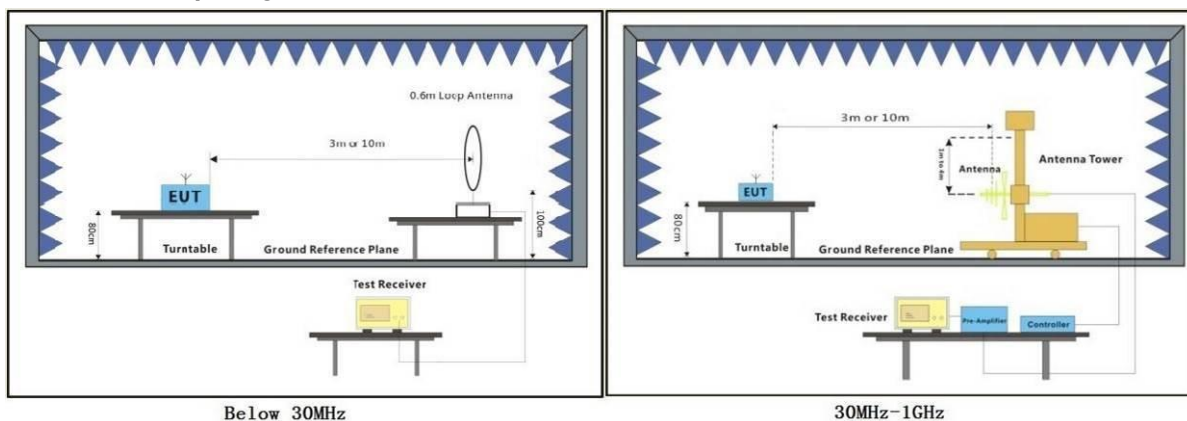
Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

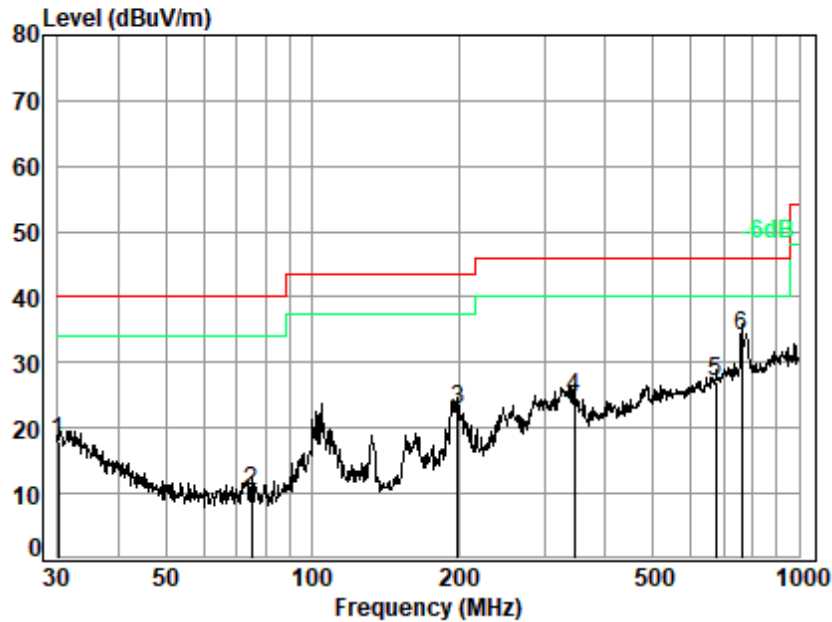
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna,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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. 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.
4. The disturbance below 1GHz was very low and the below harmonics were the highest point could be found when testing, so only the below harmonics had been displayed.



Test Mode: 09; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03291AT
Test Mode: 09

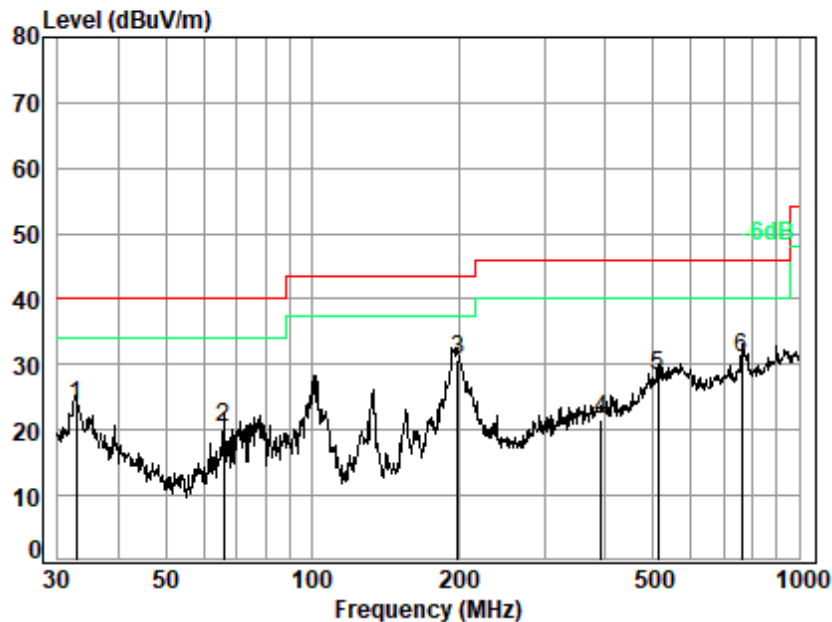
	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.105	21.15	0.74	27.65	23.61	17.85	40.00	-22.15 QP
2	74.919	10.38	1.04	27.61	26.62	10.43	40.00	-29.57 QP
3	199.286	14.08	1.70	27.80	34.75	22.73	43.50	-20.77 QP
4	345.595	19.58	2.30	27.62	30.40	24.66	46.00	-21.34 QP
5	675.208	25.71	3.34	27.89	25.78	26.94	46.00	-19.06 QP
6 q	763.376	26.52	3.59	27.68	31.56	33.99	46.00	-12.01 QP



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Test Mode: 09; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03291AT
Test Mode: 09

	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	32.749	19.98	0.76	27.65	30.49	23.58	40.00	-16.42 QP
2	65.803	10.95	0.96	27.62	36.15	20.44	40.00	-19.56 QP
3 q	199.286	14.08	1.70	27.80	42.64	30.62	43.50	-12.88 QP
4	392.095	20.73	2.46	27.73	26.28	21.74	46.00	-24.26 QP
5	513.633	23.26	2.85	27.97	30.01	28.15	46.00	-17.85 QP
6	760.704	26.47	3.58	27.69	28.64	31.00	46.00	-15.00 QP



7.3 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

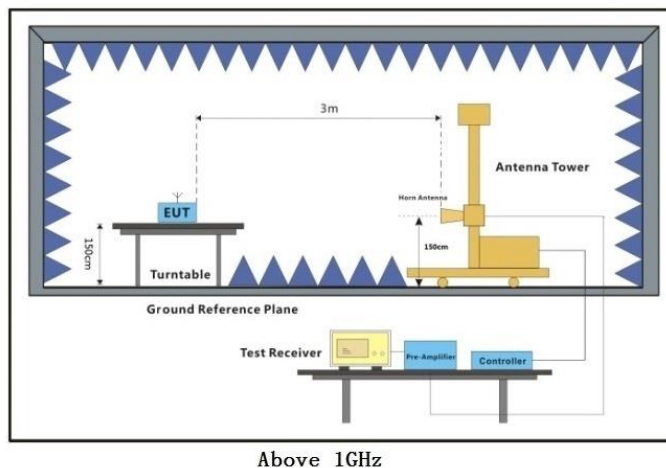
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _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

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

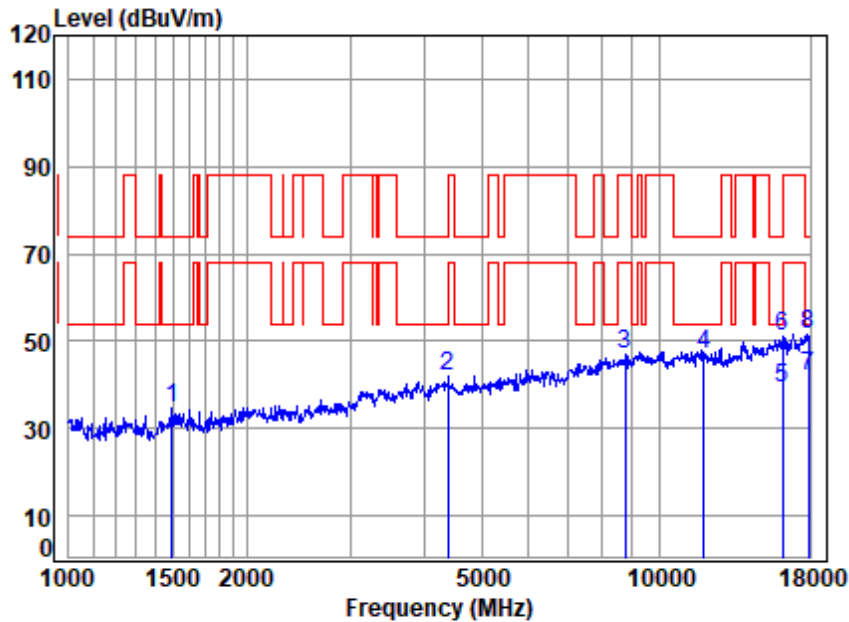
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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 disturbance above 18GHz were very low and the below harmonics were the highest point could be found when testing, so only the below harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. 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.
7. 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 $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

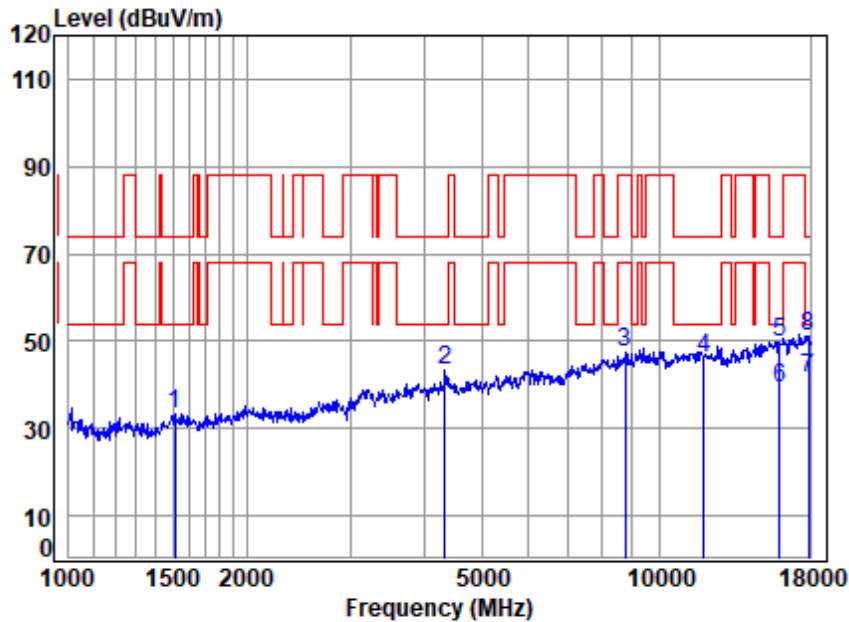


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 5955 TX RSE
Note : WIFI 11AX20

		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	1494.455	5.00	26.64	54.77	57.64	34.51	74.00	-39.49 peak
2	4392.376	7.11	34.74	54.26	54.50	42.09	74.00	-31.91 peak
3	8738.852	10.07	36.90	53.47	53.69	47.19	88.20	-41.01 peak
4	11910.000	11.60	37.71	53.18	50.66	46.79	74.00	-27.21 peak
5	16174.370	10.93	41.77	52.00	38.69	39.39	54.00	-14.61 Average
6	16174.370	10.93	41.77	52.00	50.36	51.06	74.00	-22.94 Peak
7	q17865.000	11.42	43.90	52.47	39.04	41.89	54.00	-12.11 Average
8	p17865.000	11.42	43.90	52.47	48.69	51.54	74.00	-22.46 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 5955 TX RSE
Note : 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	1511.833	4.99	26.85	54.78	56.07	33.13	74.00	-40.87 peak
2	4341.886	7.09	34.34	54.26	55.99	43.16	74.00	-30.84 peak
3	8738.852	10.07	36.90	53.47	53.81	47.31	88.20	-40.89 peak
4	11910.000	11.60	37.71	53.18	49.96	46.09	74.00	-27.91 peak
5	15988.450	10.90	41.58	51.81	49.21	49.88	74.00	-24.12 Peak
6	15988.450	10.90	41.58	51.81	38.47	39.14	54.00	-14.86 Average
7	q17865.000	11.42	43.90	52.47	38.86	41.71	54.00	-12.29 Average
8	p17865.000	11.42	43.90	52.47	48.40	51.25	74.00	-22.75 peak



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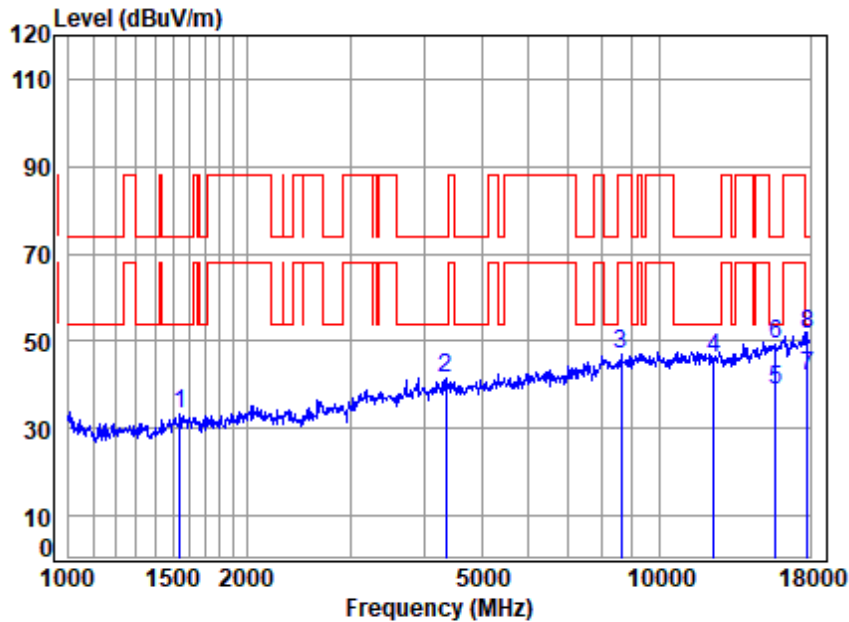
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700329106

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6175 TX RSE
Note : 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	1542.733	4.99	26.97	54.79	56.02	33.19	74.00	-40.81 peak
2	4354.454	7.09	34.44	54.26	54.11	41.38	74.00	-32.62 peak
3	8613.468	9.81	36.90	53.41	53.68	46.98	88.20	-41.22 peak
4	12350.000	11.62	37.90	53.20	49.85	46.17	74.00	-27.83 peak
5	15713.560	10.89	41.21	52.02	38.67	38.75	54.00	-15.25 Average
6	15713.560	10.89	41.21	52.02	49.29	49.37	74.00	-24.63 Peak
7	q17844.590	11.41	43.90	52.48	38.97	41.80	54.00	-12.20 Average
8	p17844.590	11.41	43.90	52.48	48.90	51.73	74.00	-22.27 peak



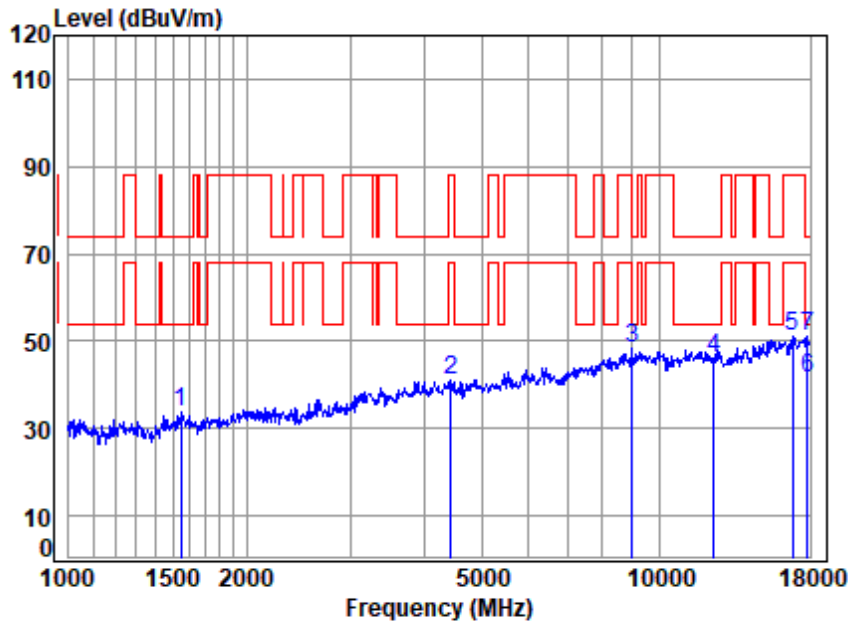
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZEMC) EMC Laboratory

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

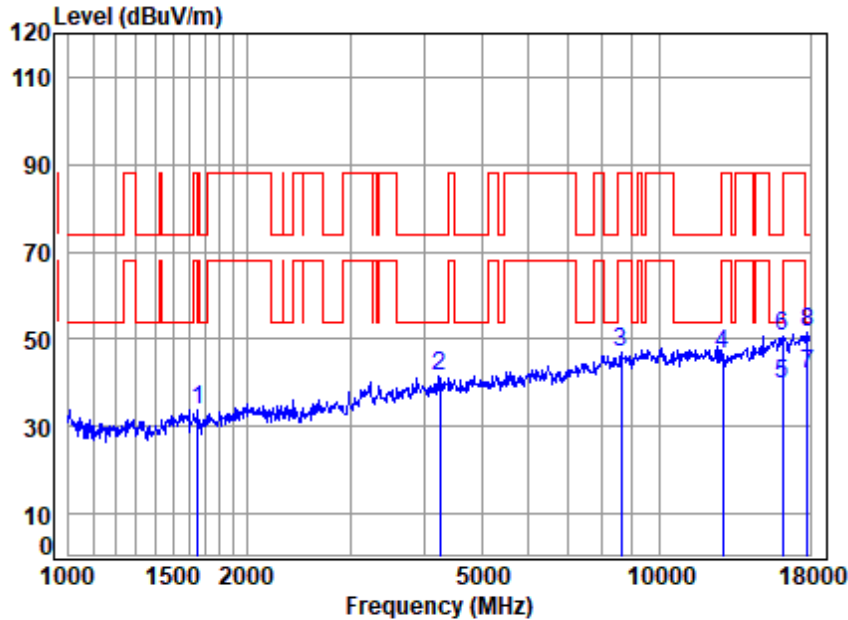


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6175 TX RSE
Note : WIFI 11AX20

		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	1547.199	4.99	26.99	54.79	56.62	33.81	74.00	-40.19	peak
2	4443.453	7.14	34.28	54.25	54.07	41.24	88.20	-46.96	peak
3	8995.123	10.58	36.91	53.60	54.69	48.58	88.20	-39.62	peak
4	12350.000	11.62	37.90	53.20	49.57	45.89	74.00	-28.11	peak
5	16842.290	10.99	43.03	52.73	49.87	51.16	88.20	-37.04	Peak
6	q17844.590	11.41	43.90	52.48	38.77	41.60	54.00	-12.40	Average
7	p17844.590	11.41	43.90	52.48	48.12	50.95	74.00	-23.05	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

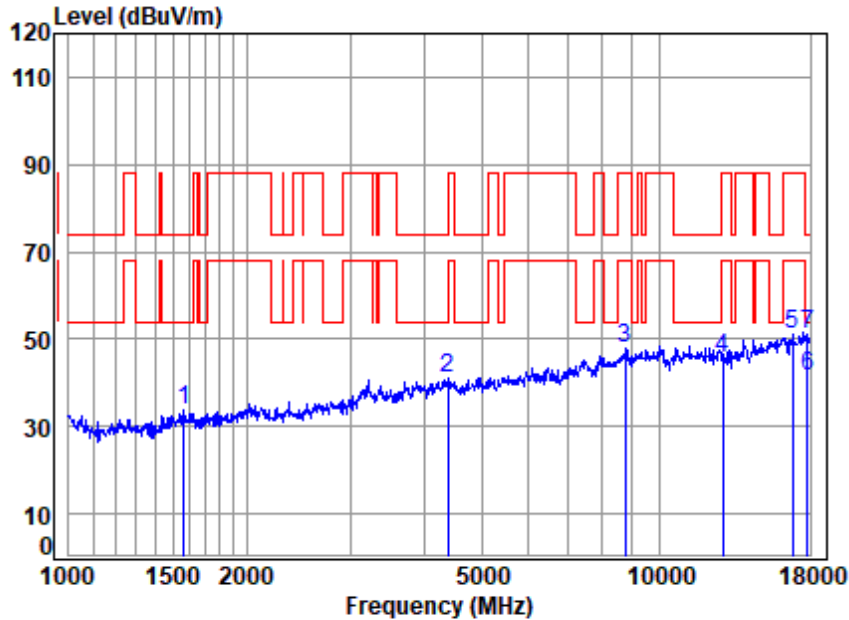


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6395 TX RSE
Note : WIFI 11AX20

		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	1653.550	5.00	26.29	54.82	57.13	33.60	88.20	-54.60 peak
2	4242.641	7.04	33.80	54.27	55.02	41.59	74.00	-32.41 peak
3	8613.468	9.81	36.90	53.41	53.76	47.06	88.20	-41.14 peak
4	12790.000	11.02	38.10	53.20	50.54	46.46	88.20	-41.74 peak
5	16174.370	10.93	41.77	52.00	38.78	39.48	54.00	-14.52 Average
6	16174.370	10.93	41.77	52.00	50.02	50.72	74.00	-23.28 Peak
7	q17844.590	11.41	43.90	52.48	38.93	41.76	54.00	-12.24 Average
8	p17844.590	11.41	43.90	52.48	48.96	51.79	74.00	-22.21 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

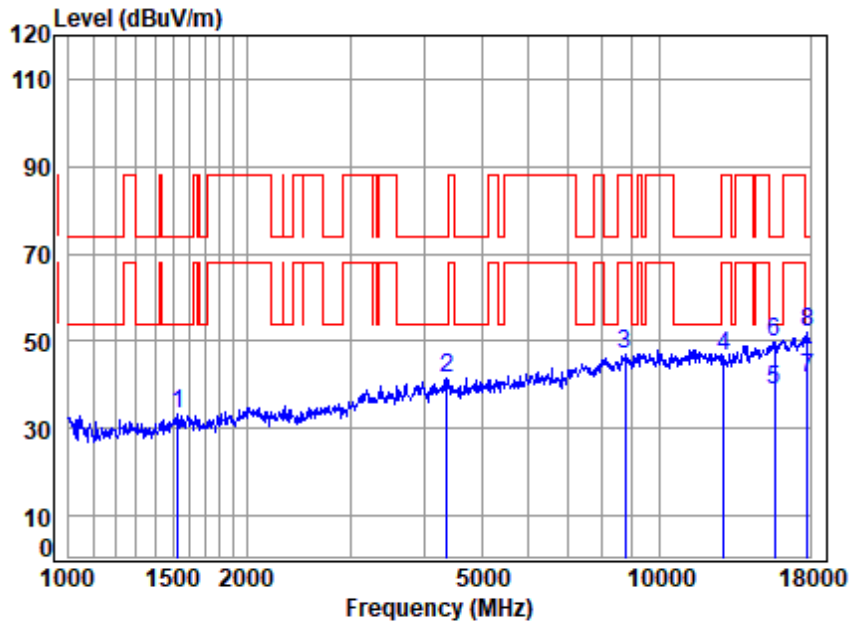


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6395 TX RSE
Note : WIFI 11AX20

		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	1569.721	4.99	26.92	54.80	56.61	33.72	74.00	-40.28 peak
2	4379.699	7.11	34.64	54.26	53.48	40.97	74.00	-33.03 peak
3	8738.852	10.07	36.90	53.47	54.55	48.05	88.20	-40.15 peak
4	12790.000	11.02	38.10	53.20	49.50	45.42	88.20	-42.78 peak
5	16842.290	10.99	43.03	52.73	49.78	51.07	88.20	-37.13 Peak
6	q17793.090	11.38	43.89	52.50	38.76	41.53	54.00	-12.47 Average
7	p17793.090	11.38	43.89	52.50	48.43	51.20	74.00	-22.80 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

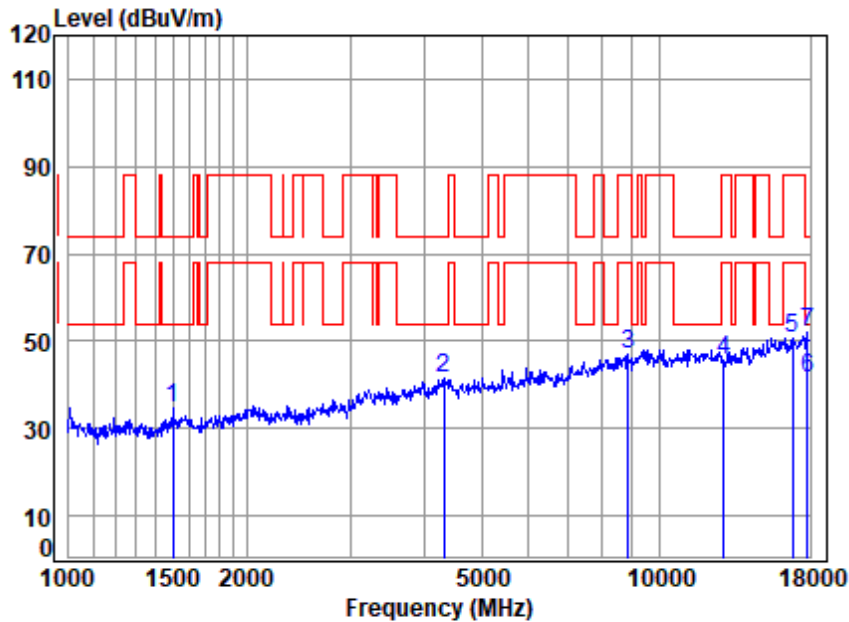


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6435 TX RSE
Note : WIFI 11AX20

		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	1529.414	4.99	26.92	54.78	56.02	33.15	74.00	-40.85	peak
2	4367.058	7.10	34.54	54.26	54.05	41.43	74.00	-32.57	peak
3	8738.852	10.07	36.90	53.47	53.54	47.04	88.20	-41.16	peak
4	12870.000	10.86	38.17	53.20	50.51	46.34	88.20	-41.86	peak
5	15668.210	10.89	41.17	52.06	38.77	38.77	54.00	-15.23	Average
6	15668.210	10.89	41.17	52.06	49.93	49.93	74.00	-24.07	Peak
7	q17793.090	11.38	43.89	52.50	38.91	41.68	54.00	-12.32	Average
8	p17793.090	11.38	43.89	52.50	49.18	51.95	74.00	-22.05	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

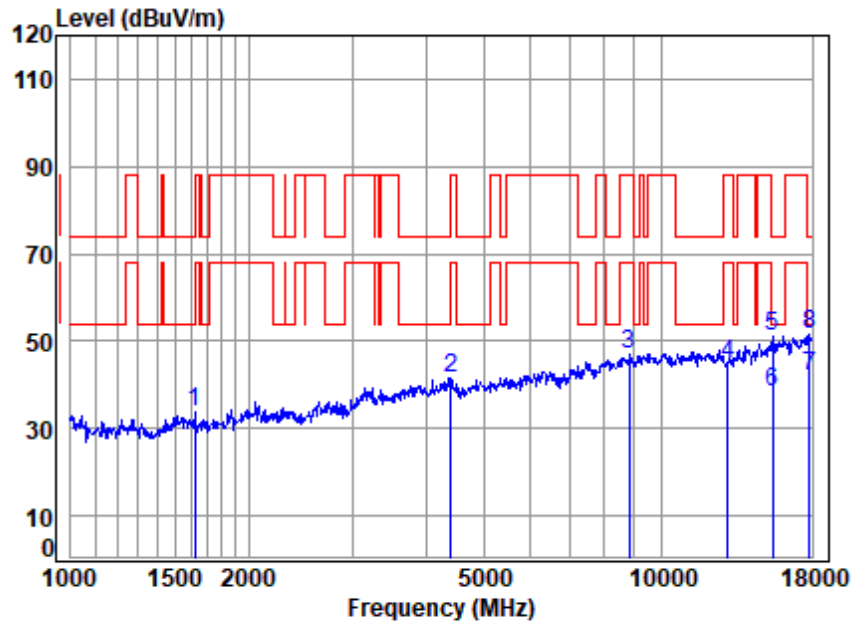


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6435 TX RSE
Note : WIFI 11AX20

		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	1498.781	4.99	26.77	54.78	57.89	34.87	74.00	-39.13 peak
2	4316.859	7.07	34.13	54.27	54.43	41.36	74.00	-32.64 peak
3	8866.062	10.33	37.20	53.54	53.02	47.01	88.20	-41.19 peak
4	12870.000	10.86	38.17	53.20	49.65	45.48	88.20	-42.72 peak
5	16842.290	10.99	43.03	52.73	49.28	50.57	88.20	-37.63 Peak
6	q17793.090	11.38	43.89	52.50	38.96	41.73	54.00	-12.27 Average
7	p17793.090	11.38	43.89	52.50	49.42	52.19	74.00	-21.81 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

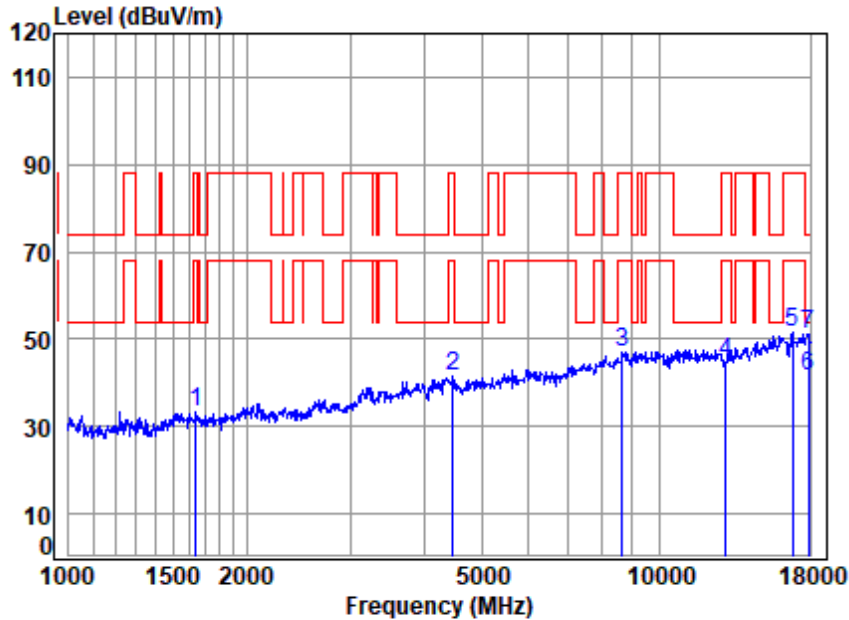


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6475 TX RSE
Note : WIFI 11AX20

		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	1620.431	5.00	26.60	54.81	57.06	33.85	74.00	-40.15 peak
2	4405.090	7.12	34.74	54.26	54.14	41.74	88.20	-46.46 peak
3	8814.957	10.22	37.13	53.51	52.99	46.83	88.20	-41.37 peak
4	12950.000	10.70	38.15	53.20	48.90	44.55	88.20	-43.65 peak
5	15443.410	10.83	41.04	52.24	51.60	51.23	74.00	-22.77 Peak
6	15443.410	10.83	41.04	52.24	38.59	38.22	54.00	-15.78 Average
7	q17793.090	11.38	43.89	52.50	38.99	41.76	54.00	-12.24 Average
8	p17793.090	11.38	43.89	52.50	48.84	51.61	74.00	-22.39 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

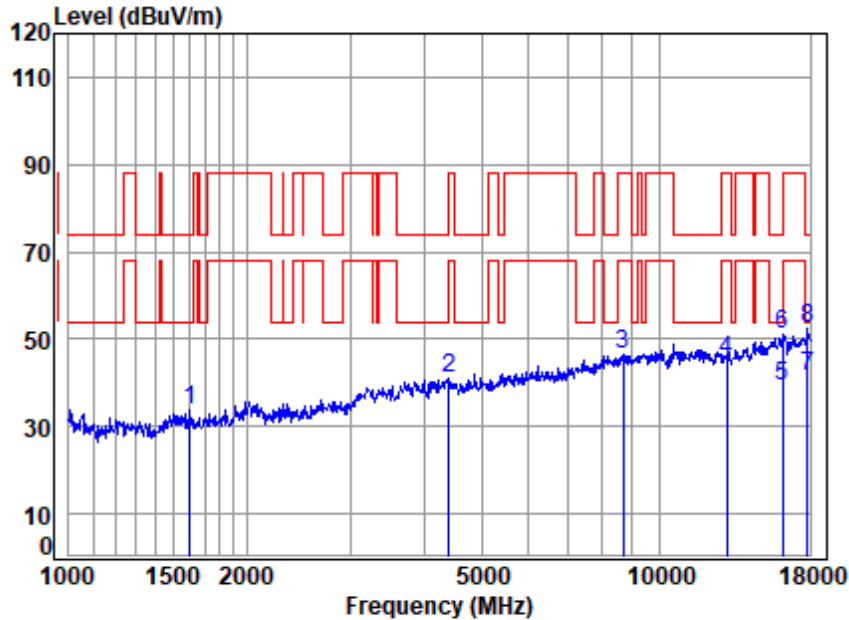


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6475 TX RSE
Note : WIFI 11AX20

		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	1639.274	5.00	26.41	54.81	56.62	33.22	88.20	-54.98 peak
2	4469.214	7.15	33.97	54.25	54.52	41.39	88.20	-46.81 peak
3	8638.399	9.87	36.90	53.43	53.84	47.18	88.20	-41.02 peak
4	12950.000	10.70	38.15	53.20	49.21	44.86	88.20	-43.34 peak
5	16842.290	10.99	43.03	52.73	50.07	51.36	88.20	-36.84 Peak
6	q17896.250	11.44	43.90	52.45	38.67	41.56	54.00	-12.44 Average
7	p17896.250	11.44	43.90	52.45	48.16	51.05	74.00	-22.95 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

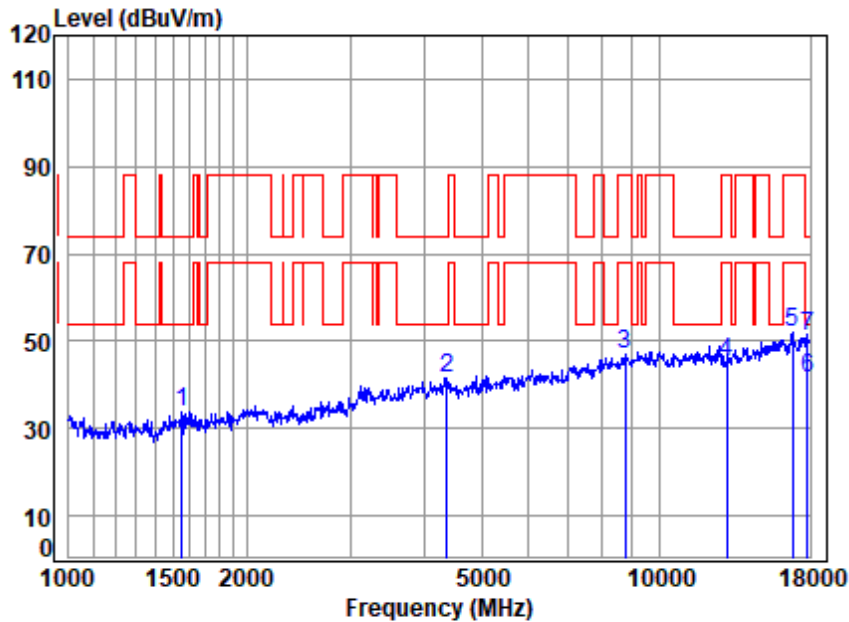


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6495 TX RSE
Note : WIFI 11AX20

		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	1606.441	4.99	26.74	54.81	56.75	33.67	74.00	-40.33 peak
2	4405.090	7.12	34.74	54.26	53.38	40.98	88.20	-47.22 peak
3	8688.480	9.97	36.90	53.45	53.27	46.69	88.20	-41.51 peak
4	12990.000	10.62	38.11	53.20	49.46	44.99	88.20	-43.21 peak
5	16174.370	10.93	41.77	52.00	38.60	39.30	54.00	-14.70 Average
6	16174.370	10.93	41.77	52.00	50.32	51.02	74.00	-22.98 Peak
7	q17793.090	11.38	43.89	52.50	38.92	41.69	54.00	-12.31 Average
8	p17793.090	11.38	43.89	52.50	49.67	52.44	74.00	-21.56 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

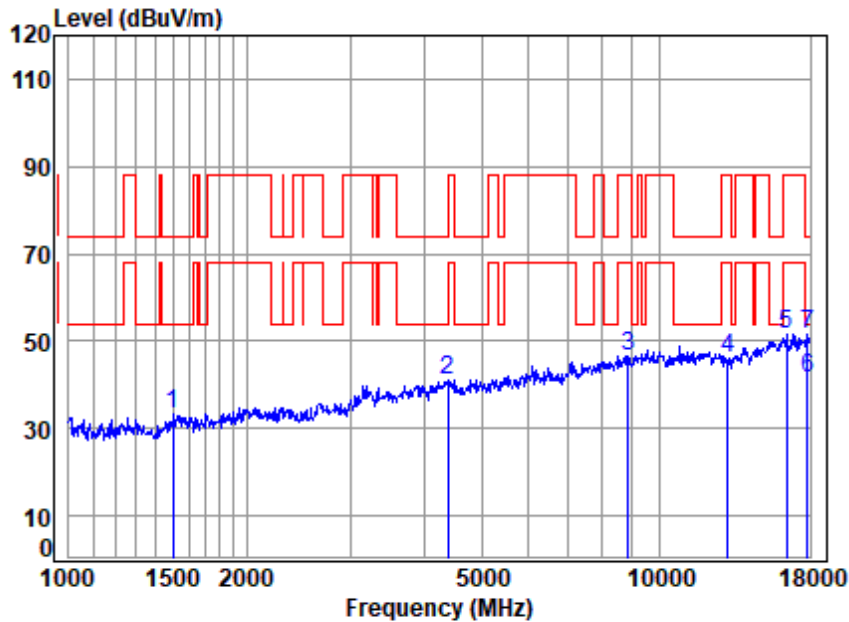


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6495 TX RSE
Note : WIFI 11AX20

		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	1551.677	4.99	26.99	54.79	56.50	33.69	74.00	-40.31 peak
2	4367.058	7.10	34.54	54.26	54.18	41.56	74.00	-32.44 peak
3	8738.852	10.07	36.90	53.47	53.35	46.85	88.20	-41.35 peak
4	12990.000	10.62	38.11	53.20	49.68	45.21	88.20	-42.99 peak
5	16793.680	10.99	42.89	52.68	50.70	51.90	88.20	-36.30 Peak
6	q17793.090	11.38	43.89	52.50	38.61	41.38	54.00	-12.62 Average
7	p17793.090	11.38	43.89	52.50	48.51	51.28	74.00	-22.72 peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

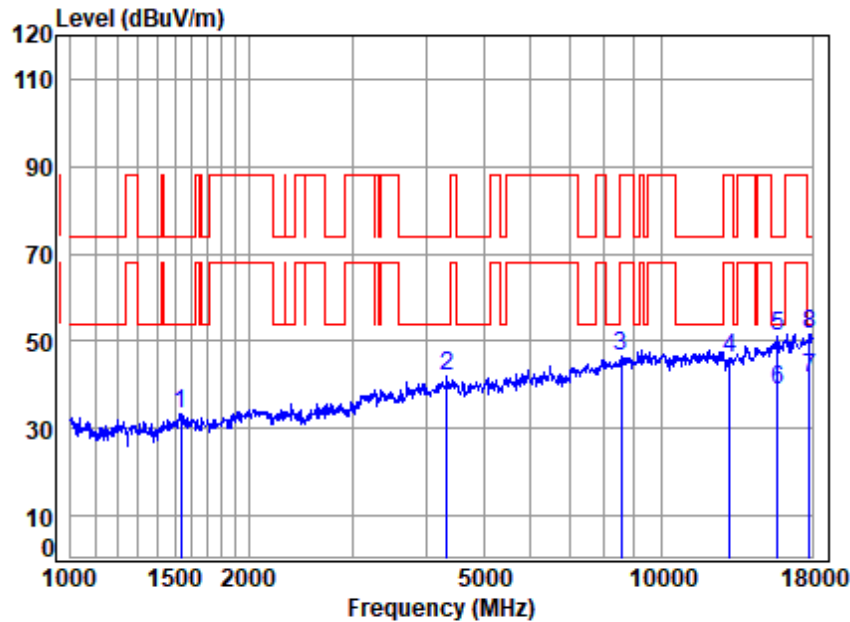


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6535 TX RSE
Note : WIFI 11AX20

		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	1503.119	4.99	26.81	54.78	56.15	33.17	74.00	-40.83 peak
2	4379.699	7.11	34.64	54.26	53.61	41.10	74.00	-32.90 peak
3	8866.062	10.33	37.20	53.54	52.76	46.75	88.20	-41.45 peak
4	13070.000	10.64	38.31	53.18	50.41	46.18	88.20	-42.02 peak
5	16409.820	10.97	42.01	52.26	50.87	51.59	88.20	-36.61 Peak
6	q17793.090	11.38	43.89	52.50	38.95	41.72	54.00	-12.28 Average
7	p17793.090	11.38	43.89	52.50	48.87	51.64	74.00	-22.36 peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

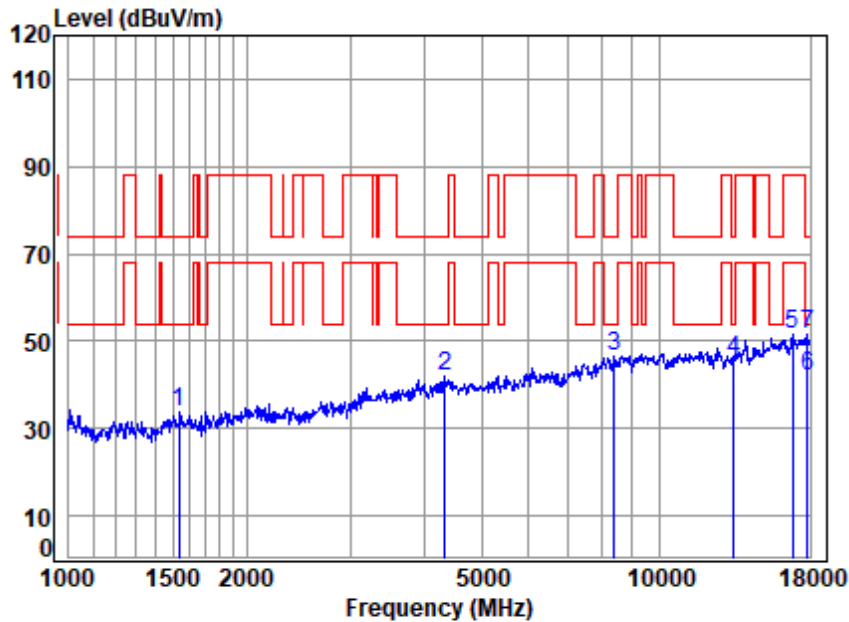


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6535 TX RSE
Note : WIFI 11AX20

		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	1538.281	4.99	26.95	54.79	56.03	33.18	74.00	-40.82	peak
2	4341.886	7.09	34.34	54.26	54.92	42.09	74.00	-31.91	peak
3	8539.102	9.66	36.78	53.38	53.66	46.72	88.20	-41.48	peak
4	13070.000	10.64	38.31	53.18	50.24	46.01	88.20	-42.19	peak
5	15759.050	10.89	41.26	51.99	50.77	50.93	74.00	-23.07	Peak
6	15759.050	10.89	41.26	51.99	38.43	38.59	54.00	-15.41	Average
7	q17793.090	11.38	43.89	52.50	38.88	41.65	54.00	-12.35	Average
8	p17793.090	11.38	43.89	52.50	48.56	51.33	74.00	-22.67	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

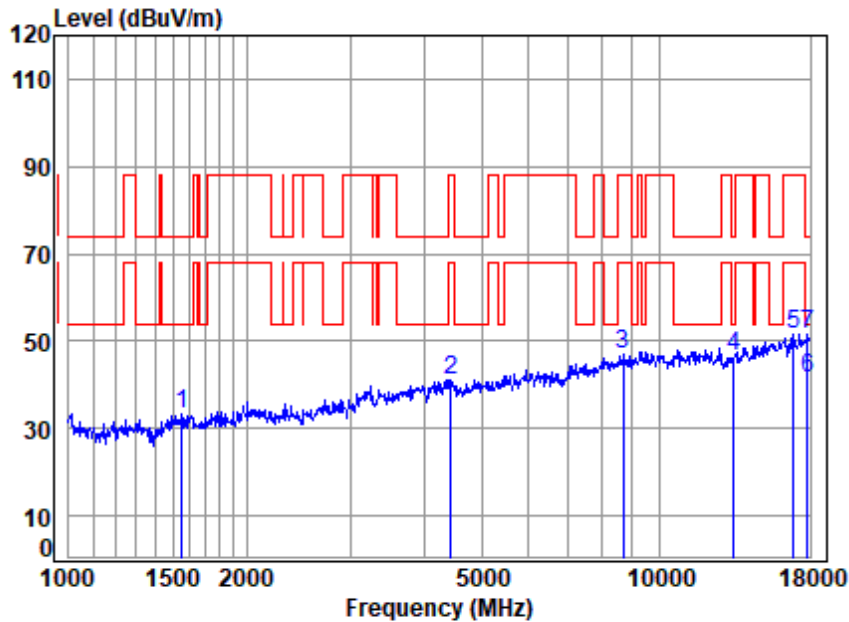


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6695 TX RSE
Note : WIFI 11AX20

		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	1538.281	4.99	26.95	54.79	56.63	33.78	74.00	-40.22	peak
2	4329.354	7.08	34.23	54.26	54.80	41.85	74.00	-32.15	peak
3	8392.292	9.47	36.70	53.30	53.72	46.59	74.00	-27.41	peak
4	13390.000	10.83	38.78	53.08	49.02	45.55	74.00	-28.45	peak
5	16793.680	10.99	42.89	52.68	50.25	51.45	88.20	-36.75	Peak
6	q17844.590	11.41	43.90	52.48	38.92	41.75	54.00	-12.25	Average
7	p17844.590	11.41	43.90	52.48	48.50	51.33	74.00	-22.67	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6695 TX RSE
Note : WIFI 11AX20

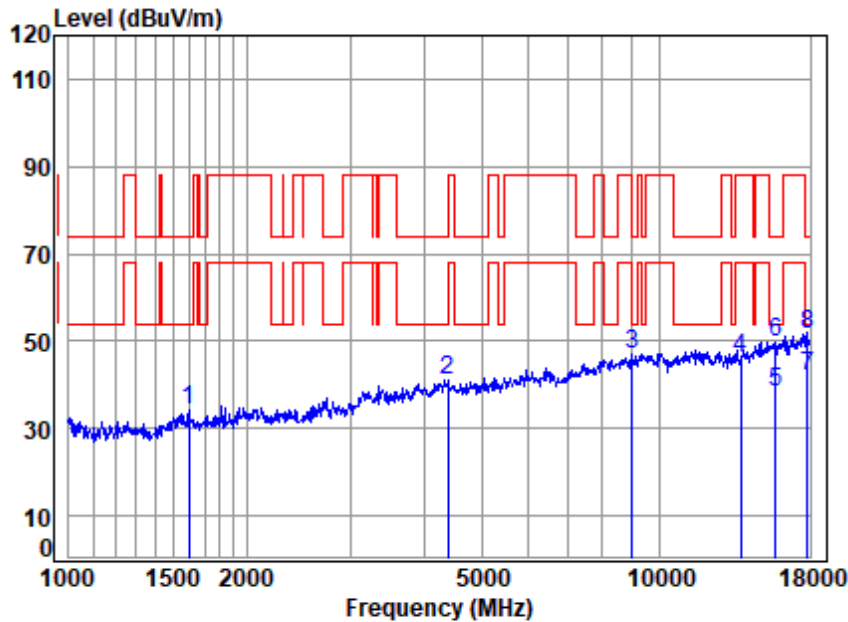
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	4.99	26.98	54.79	56.21	33.39	74.00	-40.61 peak
2	4443.453	7.14	34.28	54.25	54.10	41.27	88.20	-46.93 peak
3	8688.480	9.97	36.90	53.45	53.65	47.07	88.20	-41.13 peak
4	13390.000	10.83	38.78	53.08	49.90	46.43	74.00	-27.57 peak
5	16891.040	10.99	43.17	52.78	50.00	51.38	88.20	-36.82 Peak
6	q17793.090	11.38	43.89	52.50	38.74	41.51	54.00	-12.49 Average
7	p17793.090	11.38	43.89	52.50	48.74	51.51	74.00	-22.49 peak



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

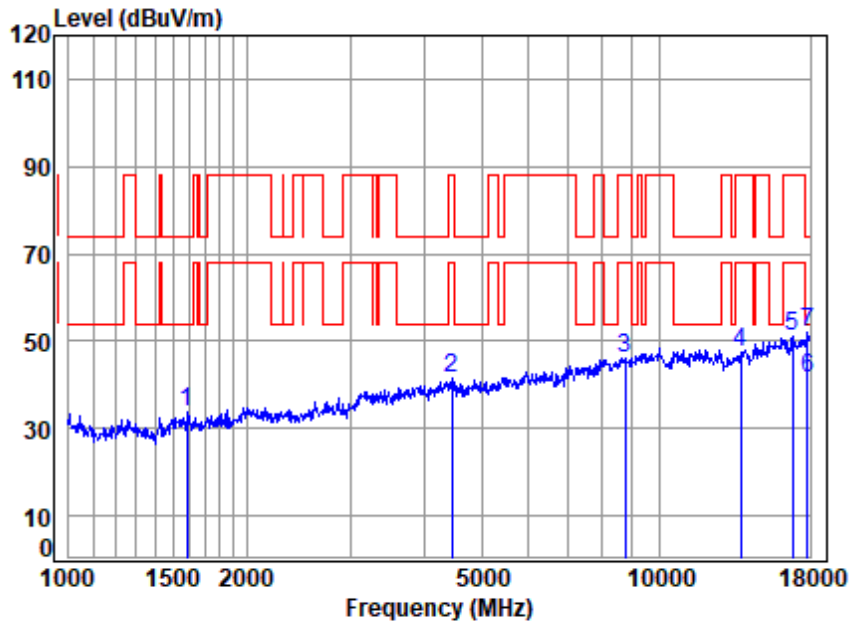


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6855 TX RSE
Note : WIFI 11AX20

		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	1597.181	4.99	26.81	54.80	57.15	34.15	74.00	-39.85 peak
2	4379.699	7.11	34.64	54.26	53.61	41.10	74.00	-32.90 peak
3	8995.123	10.58	36.91	53.60	53.15	47.04	88.20	-41.16 peak
4	13710.000	10.93	39.12	52.98	48.89	45.96	88.20	-42.24 peak
5	15713.560	10.89	41.21	52.02	38.14	38.22	54.00	-15.78 Average
6	15713.560	10.89	41.21	52.02	49.74	49.82	74.00	-24.18 Peak
7	q17844.590	11.41	43.90	52.48	38.92	41.75	54.00	-12.25 Average
8	p17844.590	11.41	43.90	52.48	48.87	51.70	74.00	-22.30 peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

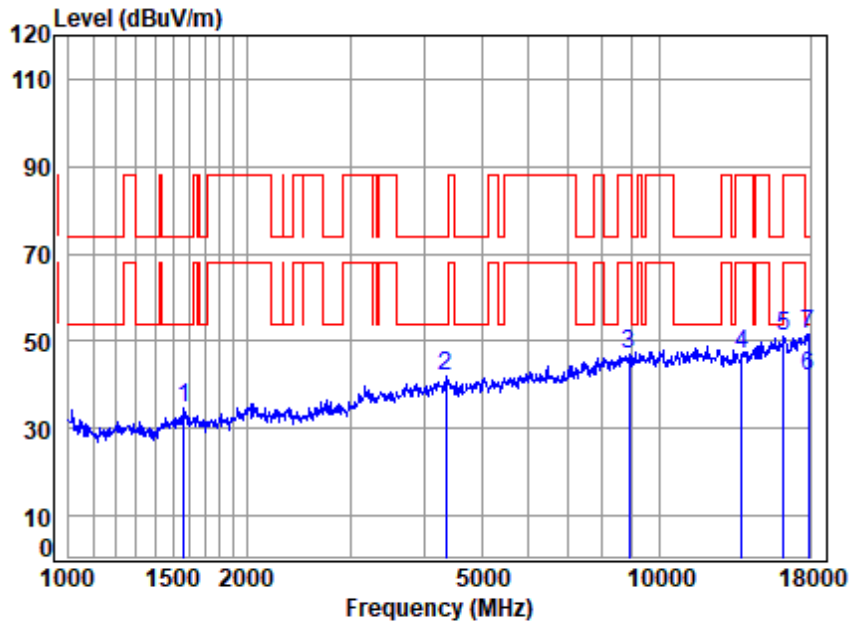


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6855 TX RSE
Note : WIFI 11AX20

		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	1583.392	4.99	26.87	54.80	56.54	33.60	74.00	-40.40 peak
2	4456.315	7.15	34.12	54.25	54.42	41.44	88.20	-46.76 peak
3	8738.852	10.07	36.90	53.47	52.75	46.25	88.20	-41.95 peak
4	13710.000	10.93	39.12	52.98	50.23	47.30	88.20	-40.90 peak
5	16793.680	10.99	42.89	52.68	49.81	51.01	88.20	-37.19 Peak
6	q17793.090	11.38	43.89	52.50	38.67	41.44	54.00	-12.56 Average
7	p17793.090	11.38	43.89	52.50	49.24	52.01	74.00	-21.99 peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

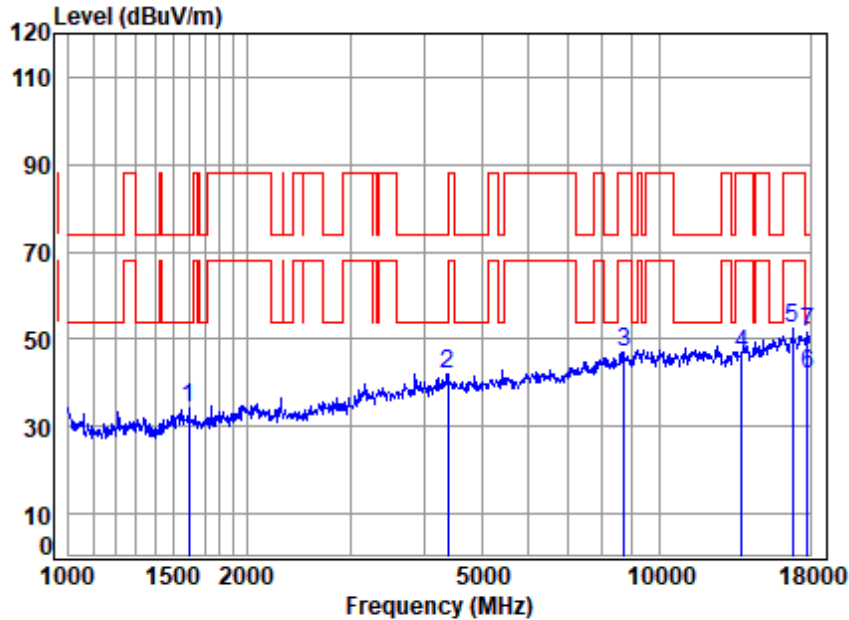


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6895 TX RSE
Note : WIFI 11AX20

		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	1569.721	4.99	26.92	54.80	57.51	34.62	74.00	-39.38 peak
2	4354.454	7.09	34.44	54.26	54.72	41.99	74.00	-32.01 peak
3	8891.725	10.38	37.20	53.55	53.01	47.04	88.20	-41.16 peak
4	13790.000	10.94	39.28	52.96	49.60	46.86	88.20	-41.34 peak
5	16221.190	10.94	41.84	52.05	50.50	51.23	88.20	-36.97 Peak
6	q17896.250	11.44	43.90	52.45	38.97	41.86	54.00	-12.14 Average
7	p17896.250	11.44	43.90	52.45	48.71	51.60	74.00	-22.40 peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

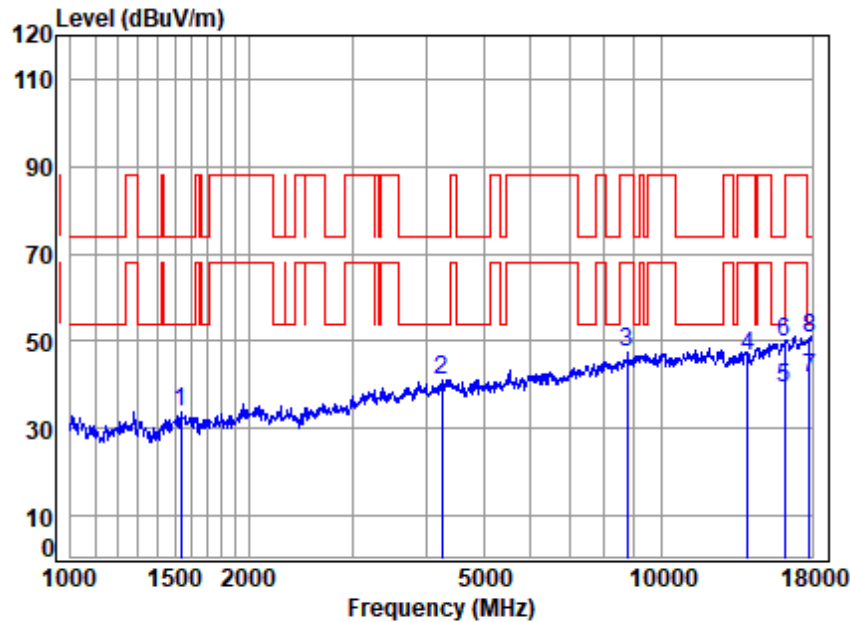


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6895 TX RSE
Note : WIFI 11AX20

		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	1597.181	4.99	26.81	54.80	57.35	34.35	74.00	-39.65 peak
2	4392.376	7.11	34.74	54.26	54.47	42.06	74.00	-31.94 peak
3	8713.630	10.02	36.90	53.46	53.54	47.00	88.20	-41.20 peak
4	13790.000	10.94	39.28	52.96	49.38	46.64	88.20	-41.56 peak
5	16842.290	10.99	43.03	52.73	51.07	52.36	88.20	-35.84 Peak
6	q17844.590	11.41	43.90	52.48	38.96	41.79	54.00	-12.21 Average
7	p17844.590	11.41	43.90	52.48	48.79	51.62	74.00	-22.38 peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

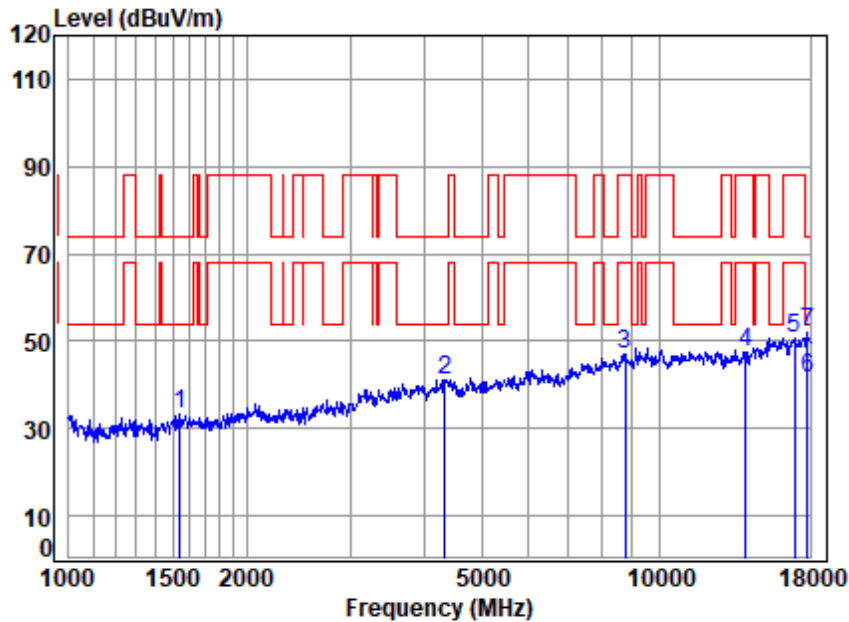


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6995 TX RSE
Note : WIFI 11AX20

		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	1533.841	4.99	26.94	54.79	56.47	33.61	74.00	-40.39 peak
2	4254.921	7.04	33.82	54.27	54.67	41.26	74.00	-32.74 peak
3	8764.146	10.12	36.96	53.49	53.86	47.45	88.20	-40.75 peak
4	13990.000	10.98	39.68	52.90	48.73	46.49	88.20	-41.71 peak
5	16174.370	10.93	41.77	52.00	38.53	39.23	54.00	-14.77 Average
6	16174.370	10.93	41.77	52.00	48.84	49.54	74.00	-24.46 Peak
7	q17793.090	11.38	43.89	52.50	38.66	41.43	54.00	-12.57 Average
8	p17793.090	11.38	43.89	52.50	47.70	50.47	74.00	-23.53 peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6995 TX RSE
Note : WIFI 11AX20

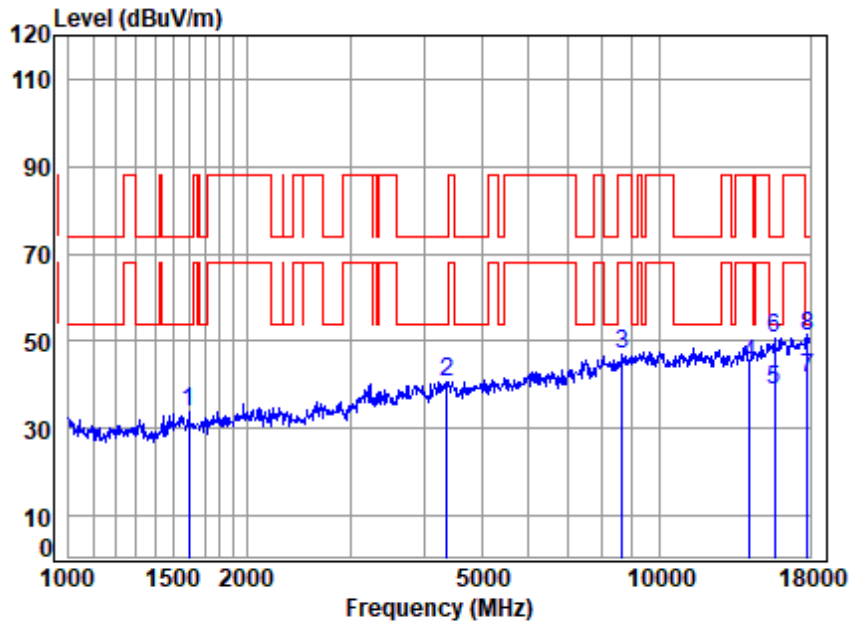
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1542.733	4.99	26.97	54.79	55.99	33.16	74.00	-40.84 peak
2	4341.886	7.09	34.34	54.26	53.92	41.09	74.00	-32.91 peak
3	8738.852	10.07	36.90	53.47	53.63	47.13	88.20	-41.07 peak
4	13990.000	10.98	39.68	52.90	49.67	47.43	88.20	-40.77 peak
5	16939.940	10.99	43.16	52.84	49.38	50.69	88.20	-37.51 Peak
6	q17793.090	11.38	43.89	52.50	38.77	41.54	54.00	-12.46 Average
7	p17793.090	11.38	43.89	52.50	49.38	52.15	74.00	-21.85 peak



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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

Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

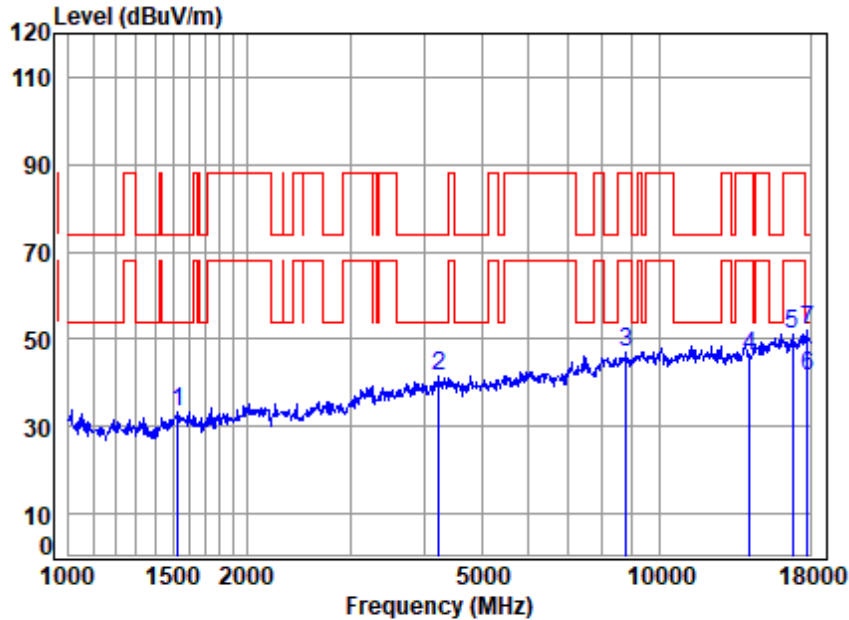


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 7115 TX RSE
Note : WIFI 11AX20

		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	1597.181	4.99	26.81	54.80	56.60	33.60	74.00	-40.40 peak
2	4367.058	7.10	34.54	54.26	53.40	40.78	74.00	-33.22 peak
3	8663.404	9.92	36.90	53.44	53.56	46.94	88.20	-41.26 peak
4	14230.000	10.72	39.89	52.83	46.93	44.71	88.20	-43.49 peak
5	15668.210	10.89	41.17	52.06	38.63	38.63	54.00	-15.37 Average
6	15668.210	10.89	41.17	52.06	50.64	50.64	74.00	-23.36 Peak
7	q17793.090	11.38	43.89	52.50	38.97	41.74	54.00	-12.26 Average
8	p17793.090	11.38	43.89	52.50	48.42	51.19	74.00	-22.81 peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 7115 TX RSE
Note : 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	1529.414	4.99	26.92	54.78	56.15	33.28	74.00	-40.72	peak
2	4230.396	7.03	33.80	54.27	54.97	41.53	74.00	-32.47	peak
3	8789.516	10.17	37.06	53.50	53.25	46.98	88.20	-41.22	peak
4	14230.000	10.72	39.89	52.83	48.52	46.30	88.20	-41.90	peak
5	16793.680	10.99	42.89	52.68	49.85	51.05	88.20	-37.15	Peak
6	q17793.090	11.38	43.89	52.50	38.93	41.70	54.00	-12.30	Average
7	p17793.090	11.38	43.89	52.50	49.35	52.12	74.00	-21.88	peak



7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

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

Measurement Distance: 3m

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

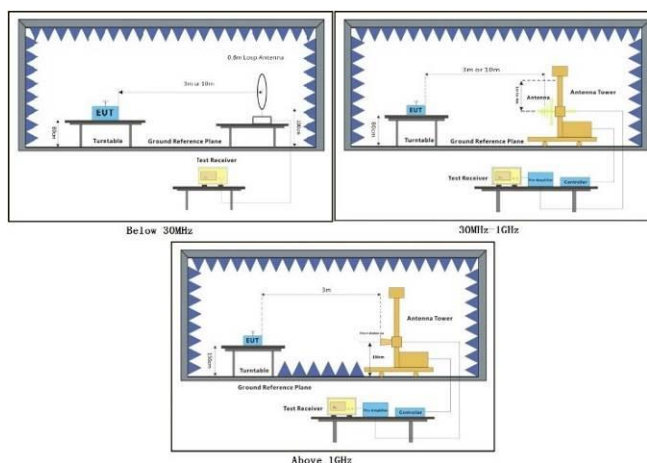
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _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 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.

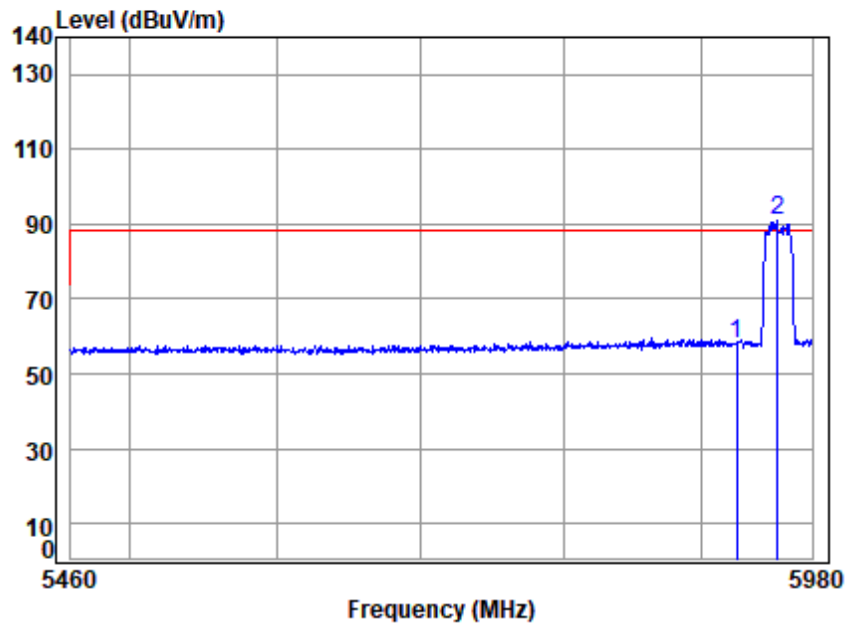
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. 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 3. 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: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

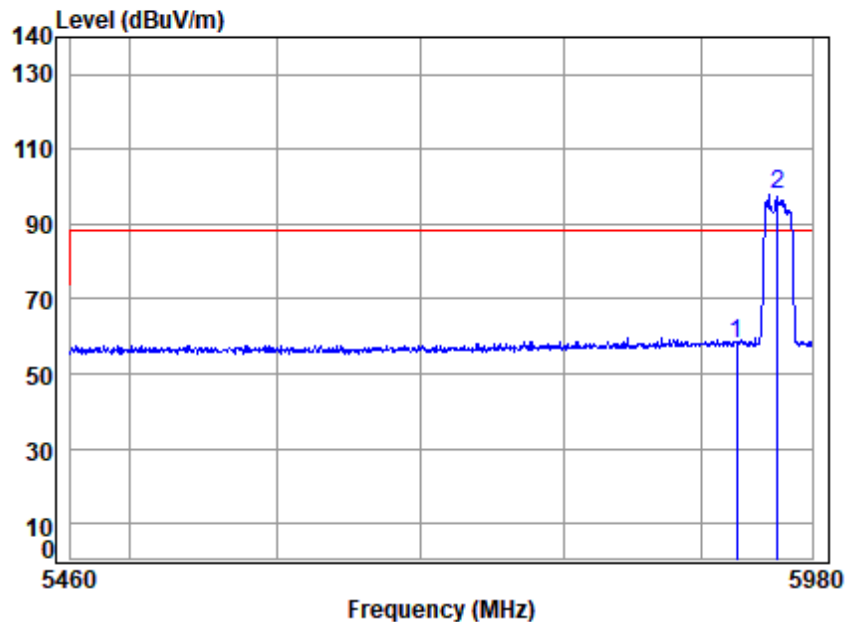


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 5955 Band edge
: 6G WIFI 11AX20

		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	5925.000	20.17	34.65	31.67	34.95	58.10	88.20	-30.10 peak
2 p	5955.000	20.22	34.72	31.68	67.87	91.13	88.20	2.93 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

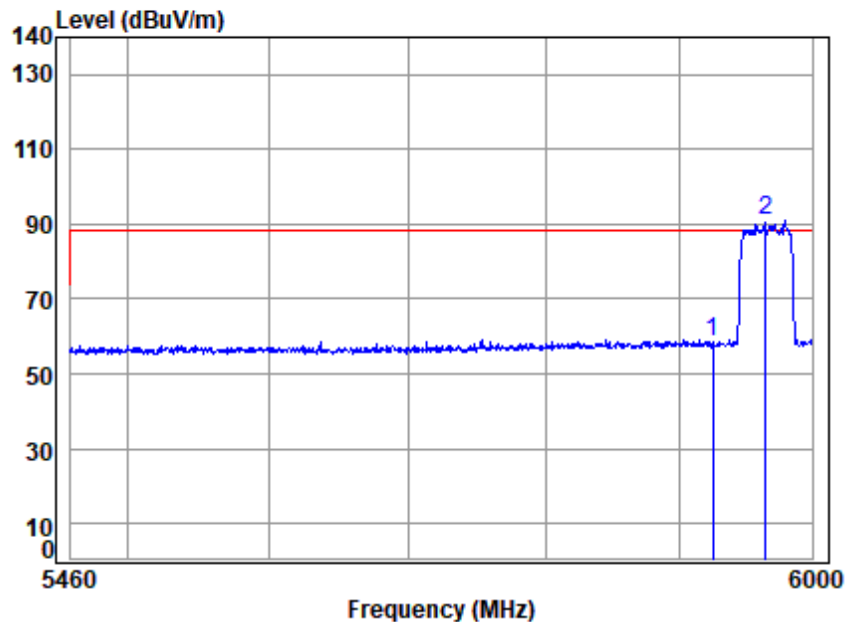


Site : chamber
 Condition: 3m VERTICAL
 Job No : 03291AT\03292AT
 Mode : 5955 Band edge
 : 6G WIFI 11AX20

		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	5925.000	20.17	34.65	31.67	35.13	58.28	88.20	-29.92 peak
2 p	5955.000	20.22	34.72	31.68	74.57	97.83	88.20	9.63 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

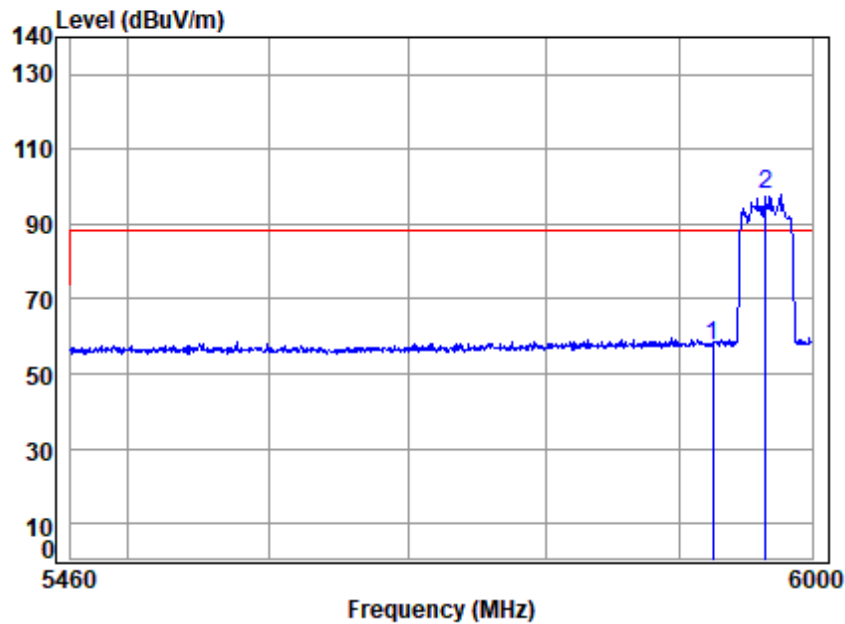


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 5965 Band edge
: 6G WIFI 11AX40

		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	5925.000	20.17	34.65	31.67	35.53	58.68	88.20	-29.52	peak
2 p	5965.000	20.24	34.76	31.68	67.96	91.28	88.20	3.08	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

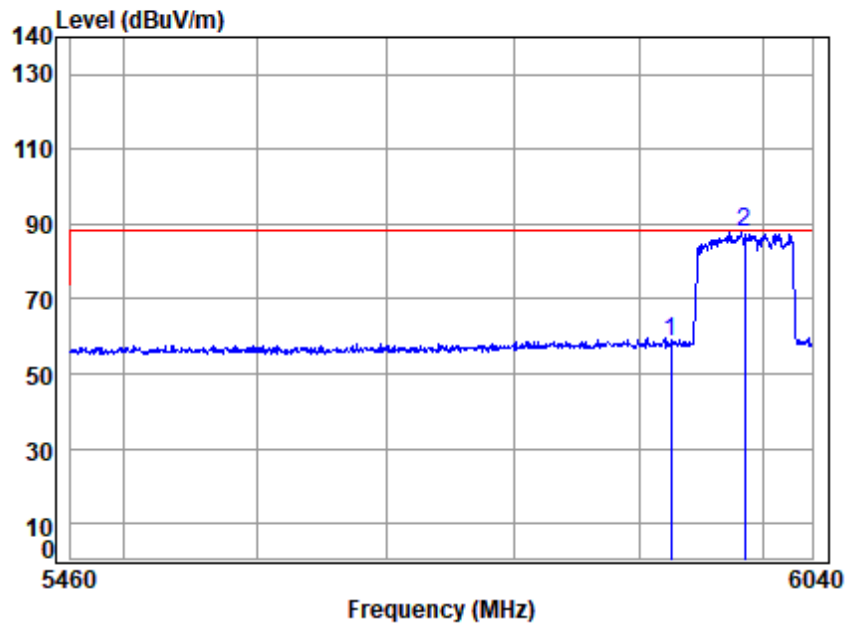


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 5965 Band edge
: 6G WIFI 11AX40

		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	5925.000	20.17	34.65	31.67	34.22	57.37	88.20	-30.83	peak
2 p	5965.000	20.24	34.76	31.68	74.58	97.90	88.20	9.70	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low

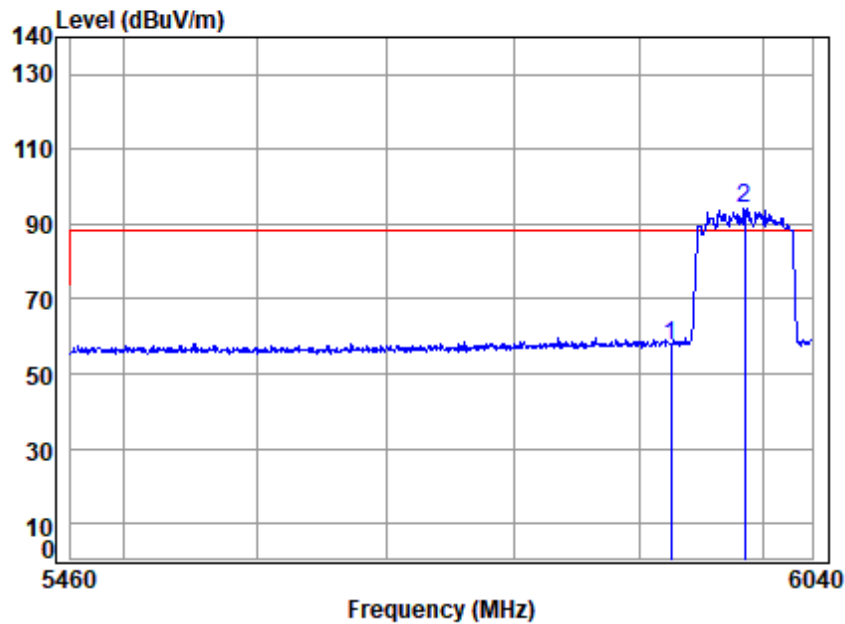


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 5985 Band edge
: 6G WIFI 11AX80

		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	5925.000	20.17	34.65	31.67	35.47	58.62	88.20	-29.58 peak
2 p	5985.000	20.27	34.84	31.69	64.67	88.09	88.20	-0.11 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low

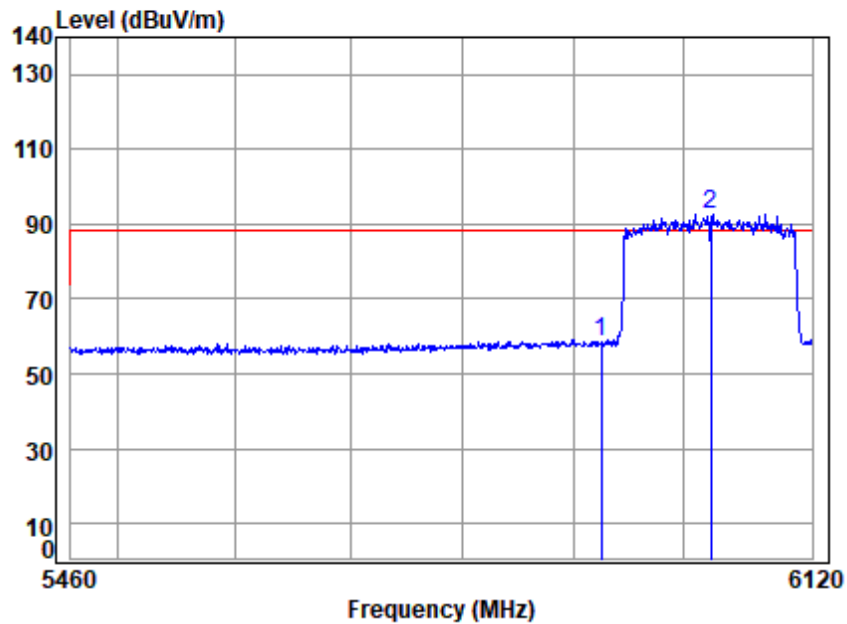


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 5985 Band edge
: 6G WIFI 11AX80

		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	5925.000	20.17	34.65	31.67	34.59	57.74	88.20	-30.46 peak
2 p	5985.000	20.27	34.84	31.69	70.79	94.21	88.20	6.01 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:Low

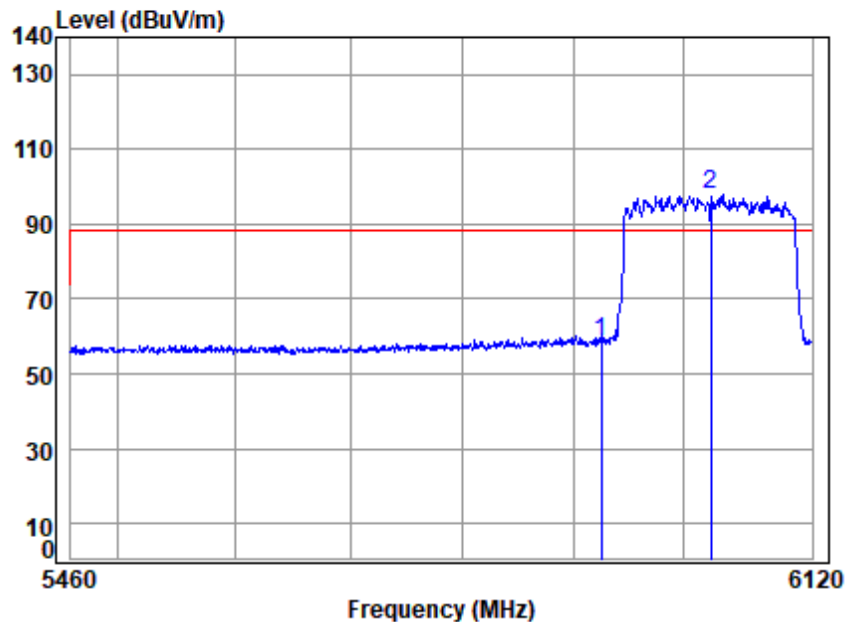


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6025 Band edge
: 6G WIFI 11AX160

		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	5925.000	20.17	34.65	31.67	35.38	58.53	88.20	-29.67 peak
2 p	6025.000	20.27	34.95	31.67	69.24	92.79	88.20	4.59 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:Low

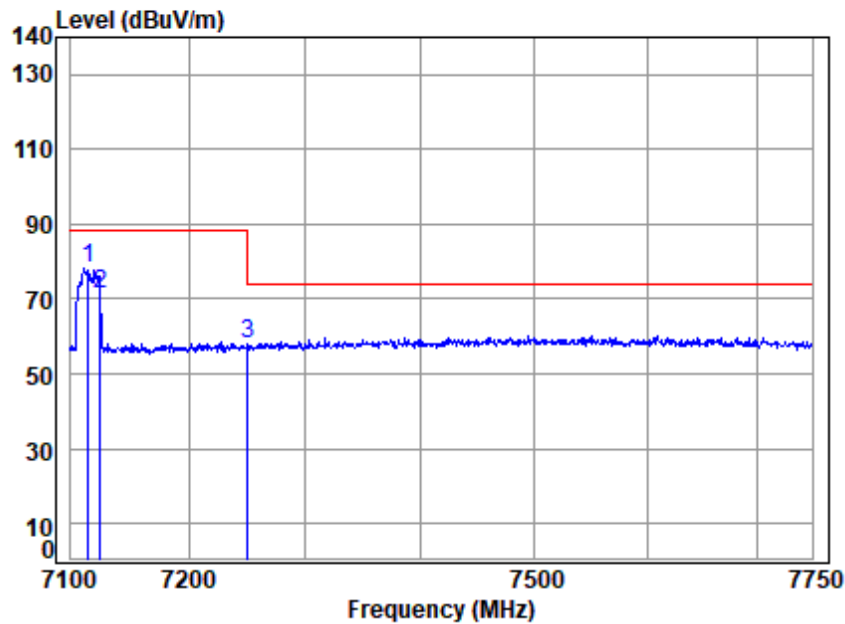


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6025 Band edge
: 6G WIFI 11AX160

		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	5925.000	20.17	34.65	31.67	35.48	58.63	88.20	-29.57	peak
2 p	6025.000	20.27	34.95	31.67	74.30	97.85	88.20	9.65	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

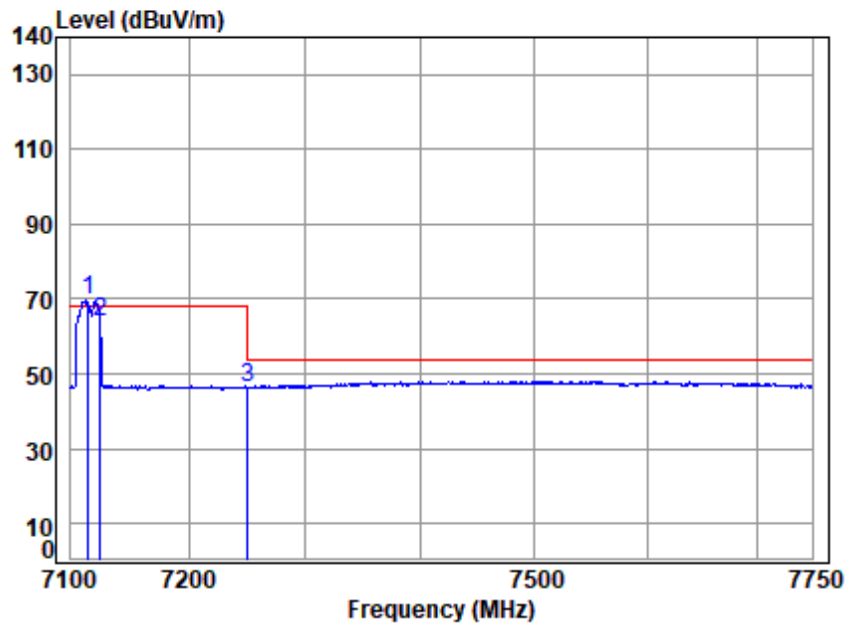


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 7115 Band edge
: 6G WIFI 11AX20

		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	7115.000	20.13	35.80	30.54	52.65	78.04	88.20	-10.16	peak
2	7125.000	20.13	35.80	30.53	45.98	71.38	88.20	-16.82	peak
3	7250.000	20.16	35.70	30.47	32.38	57.77	74.00	-16.23	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

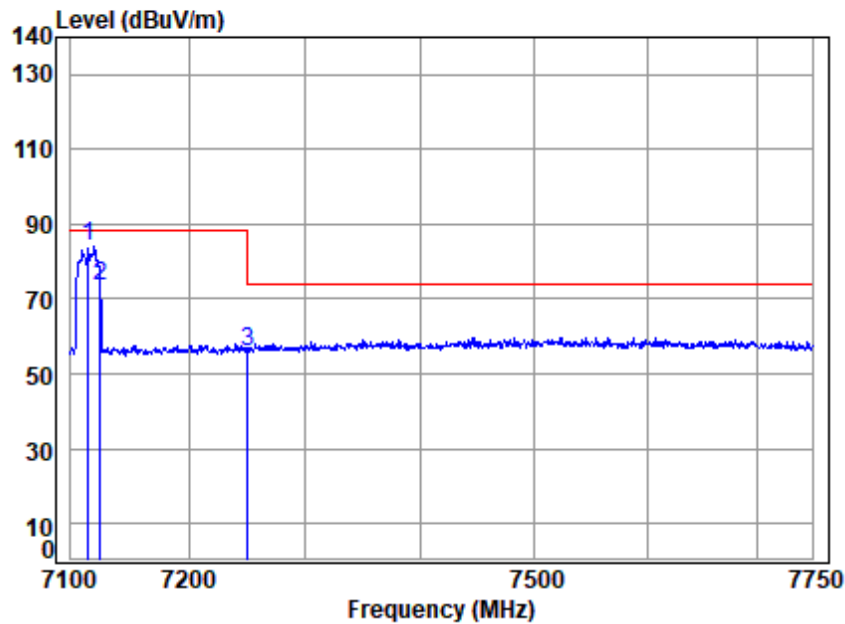


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 7115 Band edge
: 6G WIFI 11AX20

		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 7115.000	20.13	35.80	30.54	44.27	69.66	68.20	1.46	Average
2 7125.000	20.13	35.80	30.53	38.36	63.76	68.20	-4.44	Average
3 7250.000	20.16	35.70	30.47	20.92	46.31	54.00	-7.69	Average



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

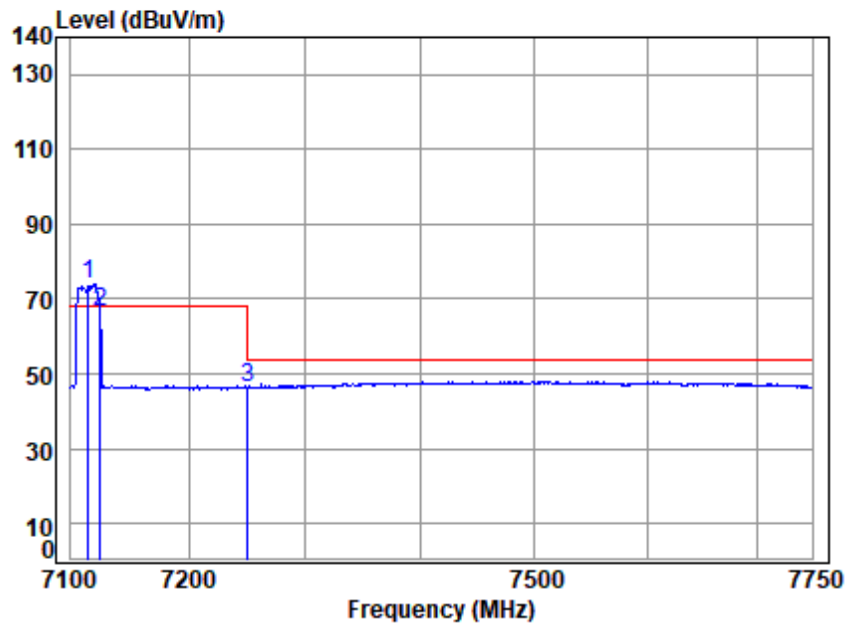


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 7115 Band edge
: 6G WIFI 11AX20

		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	7115.000	20.13	35.80	30.54	58.59	83.98	88.20	-4.22 peak
2	7125.000	20.13	35.80	30.53	47.94	73.34	88.20	-14.86 peak
3	7250.000	20.16	35.70	30.47	30.70	56.09	74.00	-17.91 peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

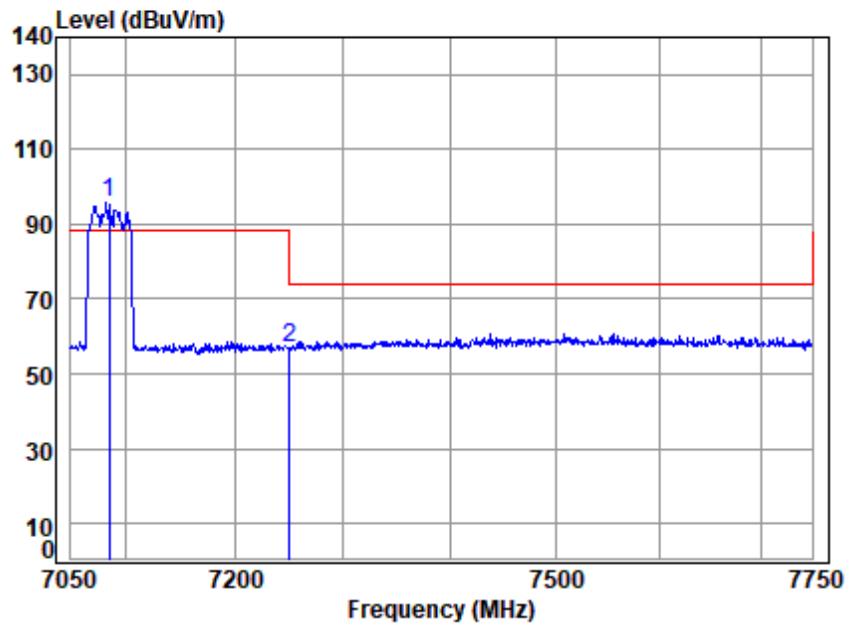


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 7115 Band edge
: 6G WIFI 11AX20

		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 7115.000	20.13	35.80	30.54	48.74	74.13	68.20	5.93	Average
2 7125.000	20.13	35.80	30.53	41.09	66.49	68.20	-1.71	Average
3 7250.000	20.16	35.70	30.47	20.94	46.33	54.00	-7.67	Average



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

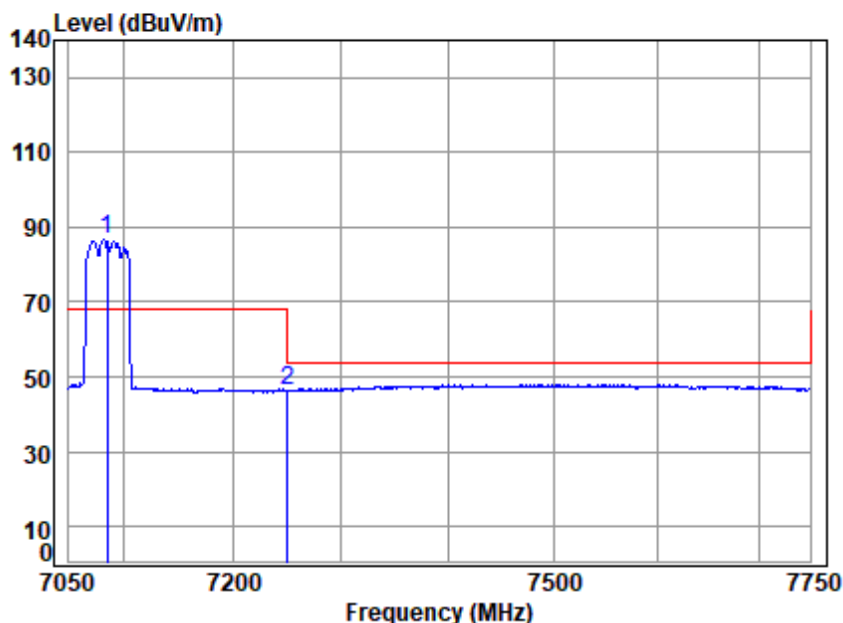


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 7085 Band edge
: 6G WIFI 11AX40

		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 7085.000	20.13	35.77	30.55	70.53	95.88	88.20	7.68	peak
2 7250.000	20.16	35.70	30.47	31.58	56.97	74.00	-17.03	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

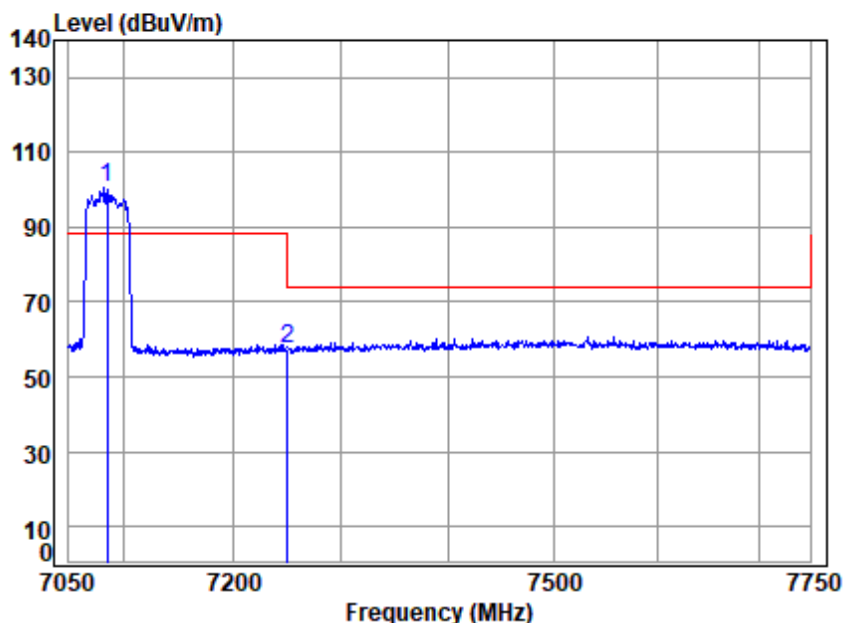


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 7085 Band edge
: 6G WIFI 11AX40

		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 7085.000		20.13	35.77	30.55	61.30	86.65	68.20	18.45	Average
2 7250.000		20.16	35.70	30.47	20.95	46.34	54.00	-7.66	Average



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

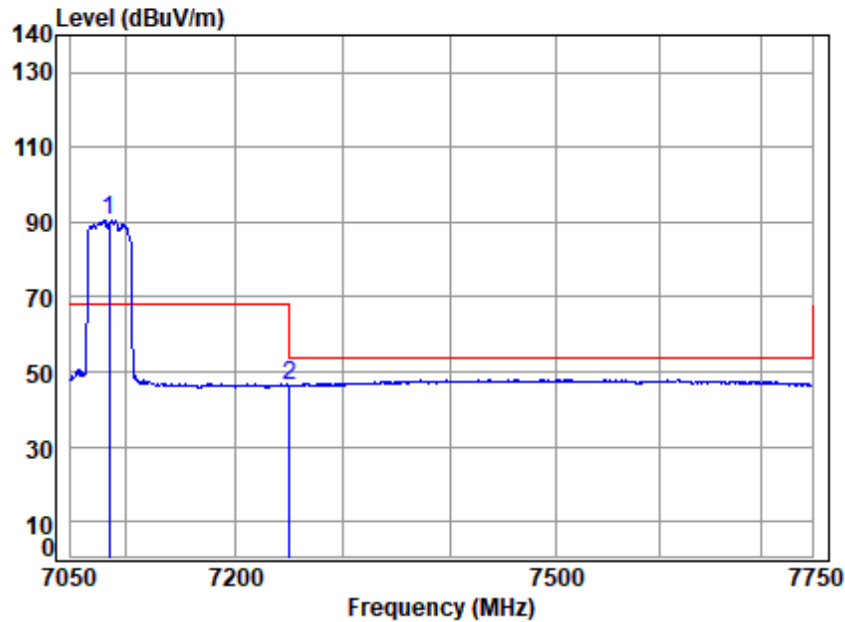


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 7085 Band edge
: 6G WIFI 11AX40

		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 7085.000		20.13	35.77	30.55	75.04	100.39	88.20	12.19	peak
2 7250.000		20.16	35.70	30.47	31.96	57.35	74.00	-16.65	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

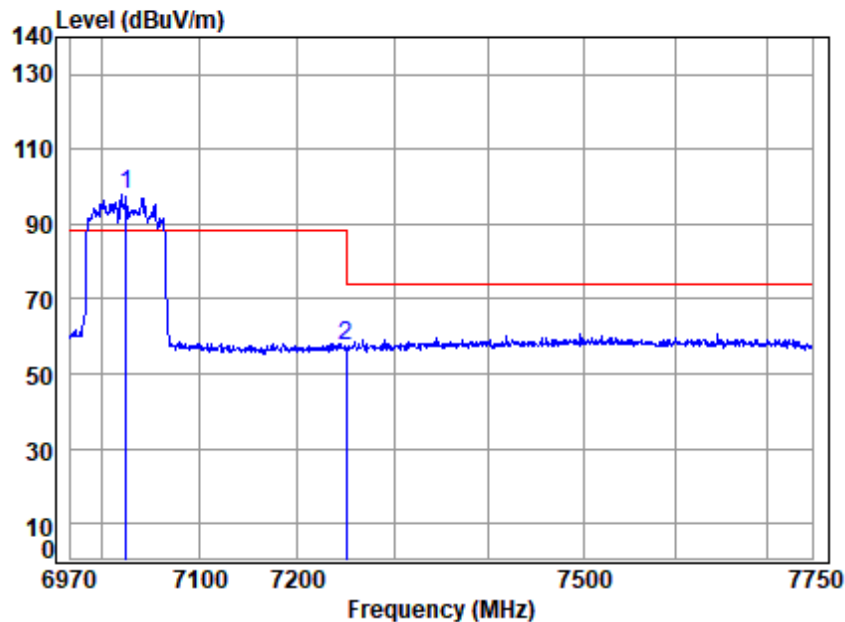


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 7085 Band edge
: 6G WIFI 11AX40

		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 7085.000	20.13	35.77	30.55	65.00	90.35	68.20	22.15	Average
2 7250.000	20.16	35.70	30.47	20.99	46.38	54.00	-7.62	Average



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High

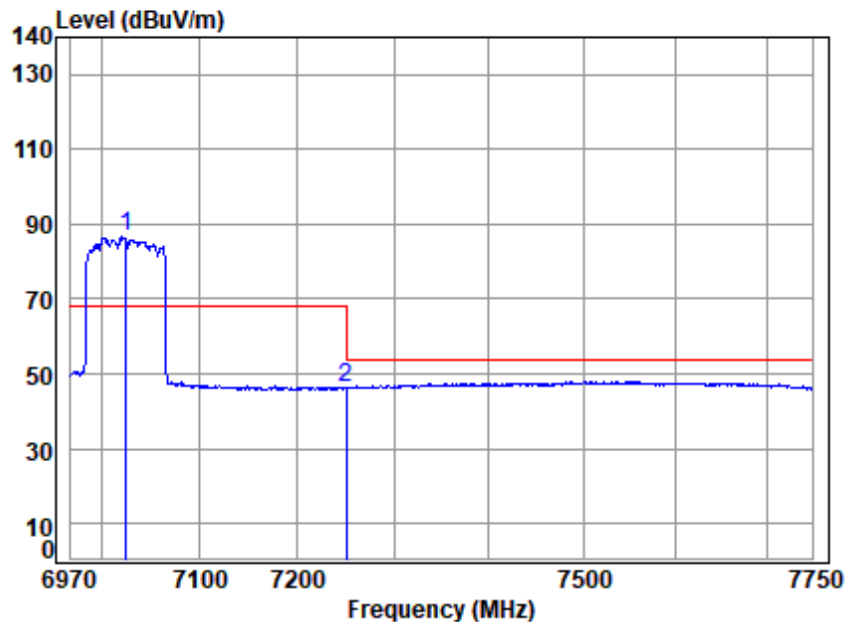


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 7025 Band edge
: 6G WIFI 11AX80

		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 7025.000		20.11	35.70	30.59	72.70	97.92	88.20	9.72	peak
2 7250.000		20.16	35.70	30.47	32.31	57.70	74.00	-16.30	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High

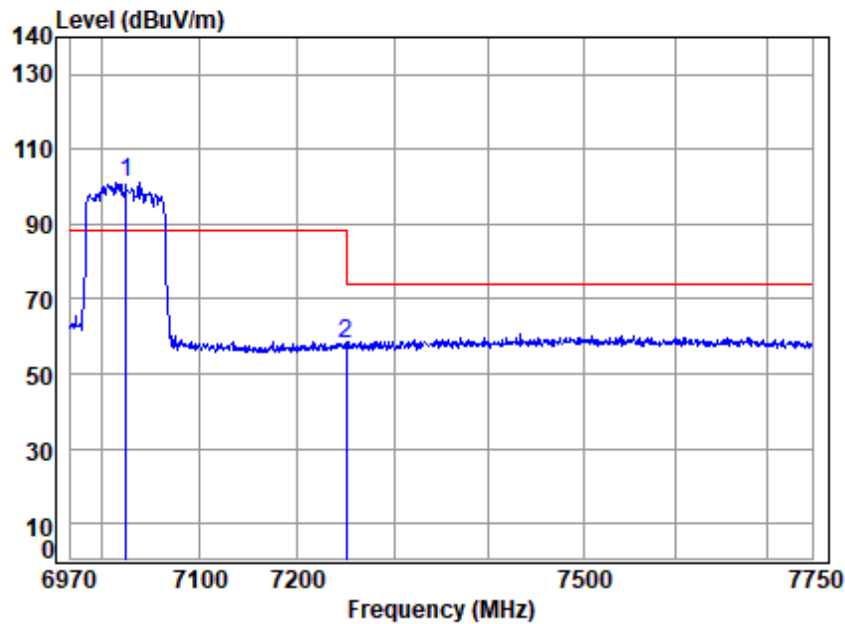


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 7025 Band edge
: 6G WIFI 11AX80

		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 7025.000		20.11	35.70	30.59	61.36	86.58	68.20	18.38	Average
2 7250.000		20.16	35.70	30.47	20.88	46.27	54.00	-7.73	Average



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High

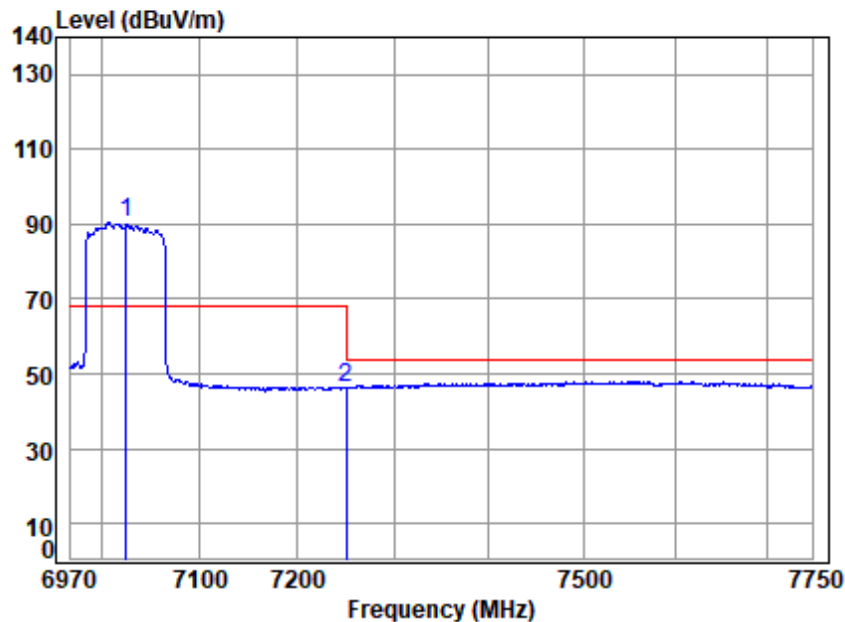


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 7025 Band edge
: 6G WIFI 11AX80

		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 7025.000	20.11	35.70	30.59	75.98	101.20	88.20	13.00	peak	
2 7250.000	20.16	35.70	30.47	32.62	58.01	74.00	-15.99	peak	



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High

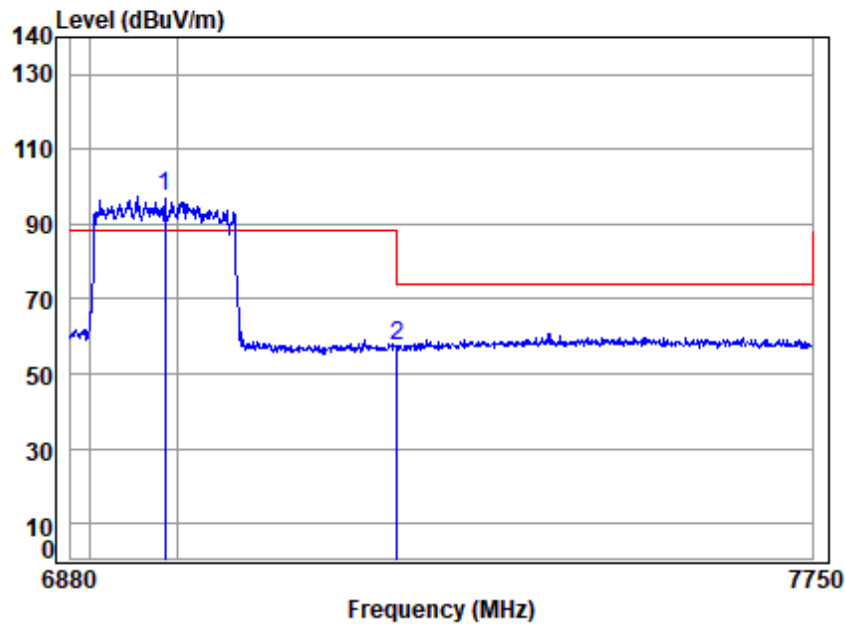


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 7025 Band edge
: 6G WIFI 11AX80

		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 7025.000		20.11	35.70	30.59	65.46	90.68	68.20	22.48	Average
2 7250.000		20.16	35.70	30.47	20.78	46.17	54.00	-7.83	Average



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High

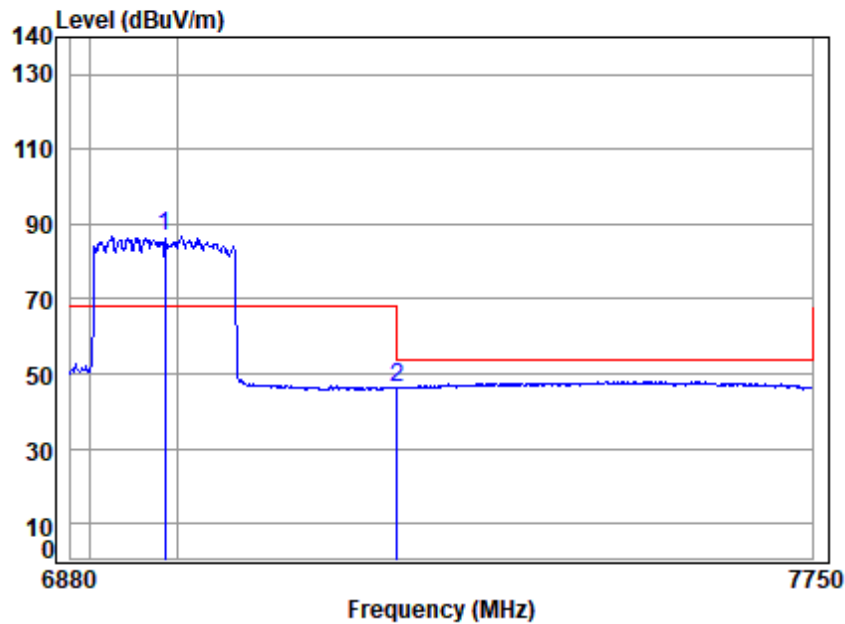


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6985 Band edge
: 6G WIFI 11AX160

		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 6985.000		20.10	35.73	30.62	72.13	97.34	88.20	9.14	peak
2 7250.000		20.16	35.70	30.47	31.90	57.29	74.00	-16.71	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High

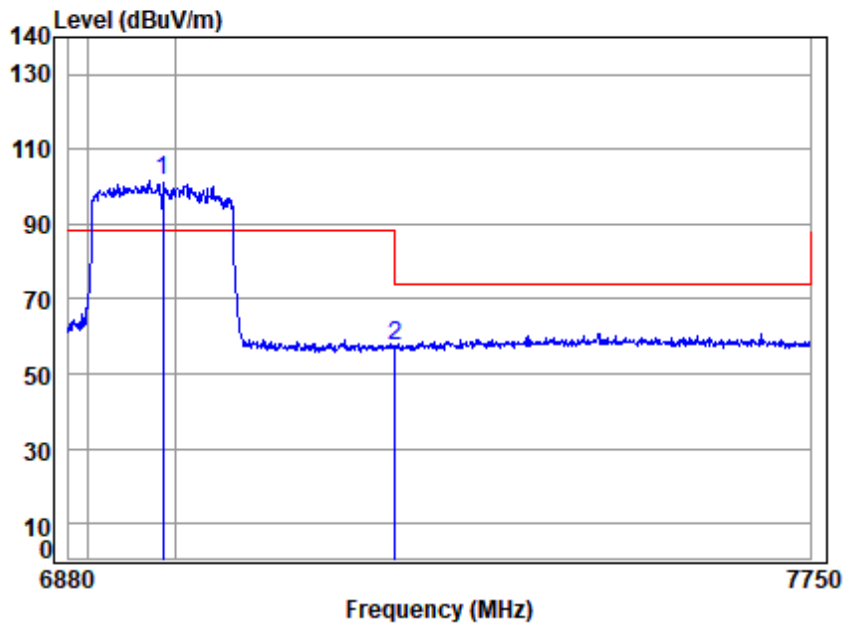


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03291AT\03292AT
Mode : 6985 Band edge
: 6G WIFI 11AX160

		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 6985.000	20.10	35.73	30.62	61.45	86.66	68.20	18.46	Average
2 7250.000	20.16	35.70	30.47	20.92	46.31	54.00	-7.69	Average



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High

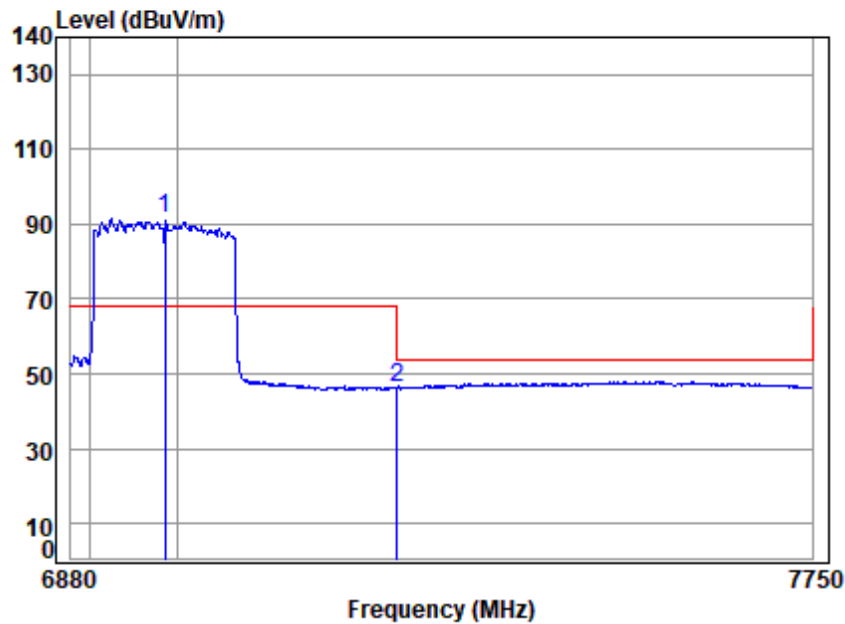


Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6985 Band edge
: 6G WIFI 11AX160

		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 6985.000	20.10	35.73	30.62	76.52	101.73	88.20	13.53	peak	
2 7250.000	20.16	35.70	30.47	32.33	57.72	74.00	-16.28	peak	



Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03291AT\03292AT
Mode : 6985 Band edge
: 6G WIFI 11AX160

		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 6985.000	20.10	35.73	30.62	66.17	91.38	68.20	23.18	Average
2 7250.000	20.16	35.70	30.47	20.80	46.19	54.00	-7.81	Average



7.5 In-Band Emissions

Test Requirement 47 CFR Part 15, Subpart E 15.407 (b)

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

For transmitters operating within the 5.925–7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and onehalf times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

Humidity: 59.0 % RH

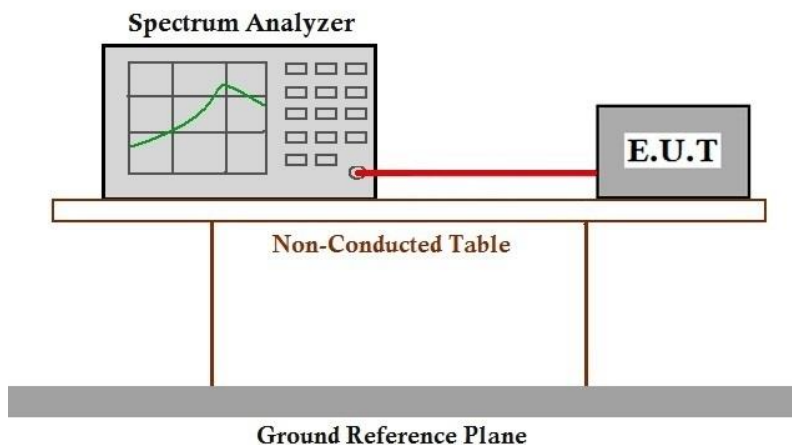
Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _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



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Contention-based Protocol

Test Requirement 47 CFR Part 15, Subpart E 15.407 (d)(6)

Test Method: KDB 987594 D02

Limit:

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C

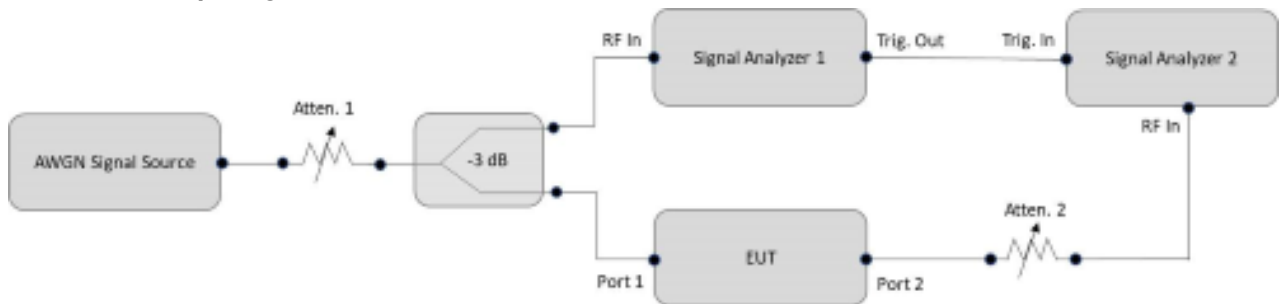
Humidity: 43.8 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Normal operating_Keep the EUT communication with the companion device.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Detection Level= Injected AWGN Power(dBm)- Antenna Gain(dBi)+ Path Loss(dB)

Please Refer to Appendix for Details



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7.7 Duty Cycle

Test Requirement ANSI C63.10 (2020) Section 12.2

Test Method: ANSI C63.10 (2020) Section 12.2

7.7.1 E.U.T. Operation

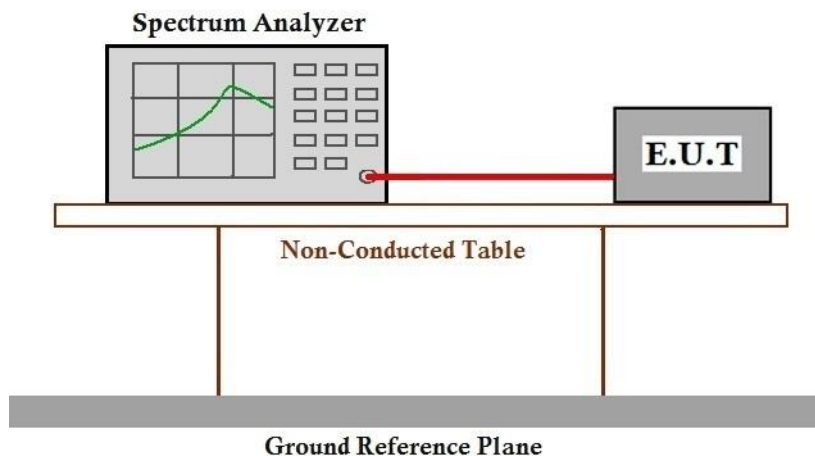
Operating Environment:

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	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _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 99% Bandwidth

Test Requirement ANSI C63.10 (2020) Section 12.4.2

Test Method: ANSI C63.10 (2020) Section 12.5.3

7.8.1 E.U.T. Operation

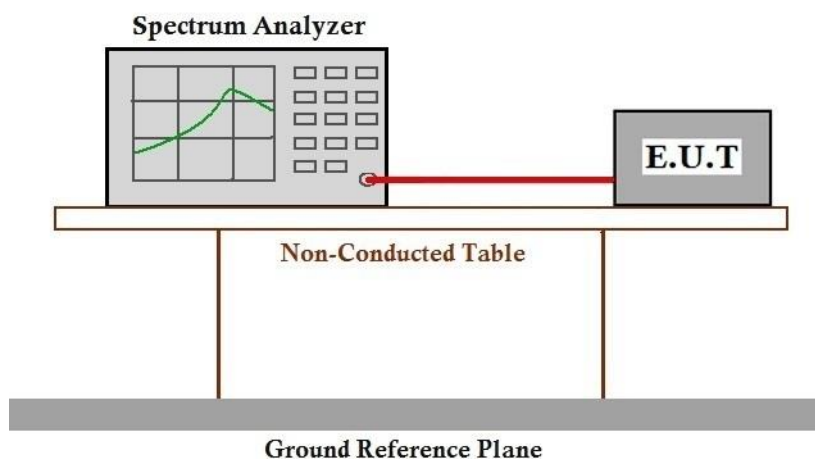
Operating Environment:

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	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _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 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.5.2

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

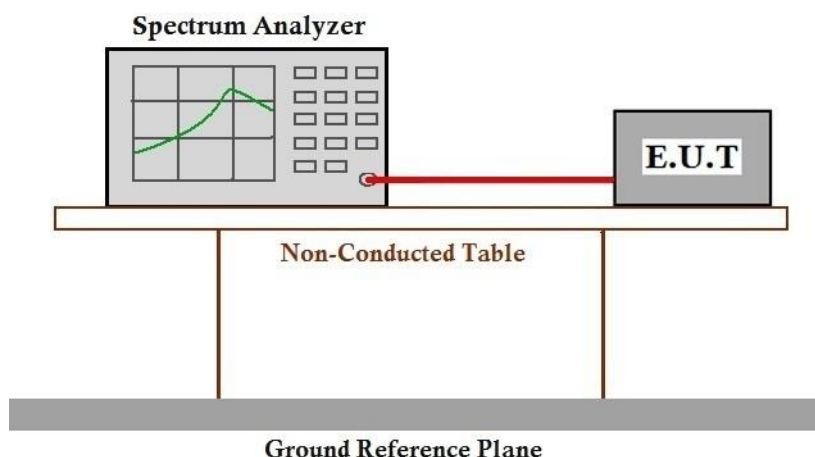
Humidity: 59.0 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _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

7.10 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.4

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤30	≤5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤24	≤-1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤14	≤-5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

Humidity: 59.0 % RH

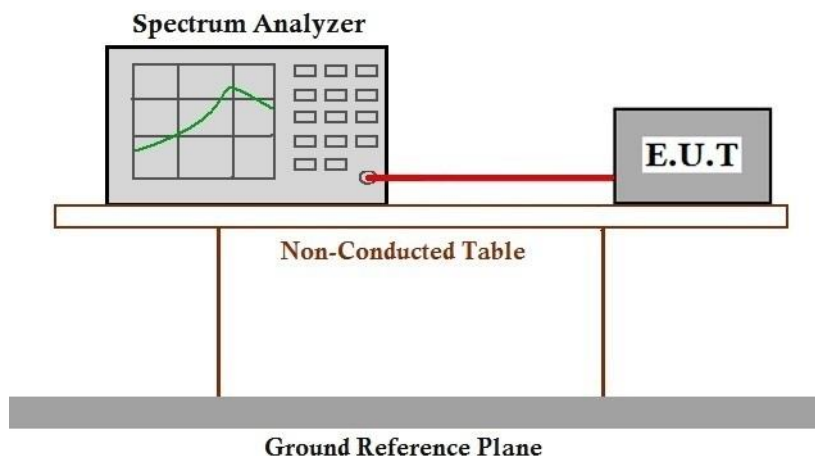
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

$$\text{AV Output power Level} = \text{Reading level} + \text{Cable loss} + \text{DCCF}$$

Please Refer to Appendix for Details



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7.11 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤30	≤5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤24	≤-1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤14	≤-5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

Humidity: 59.0 % RH

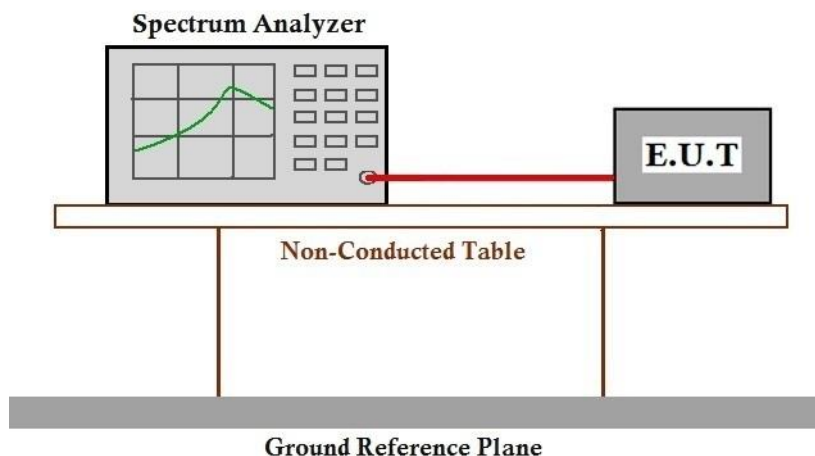
Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2020) Section 6.8

7.12.1 E.U.T. Operation

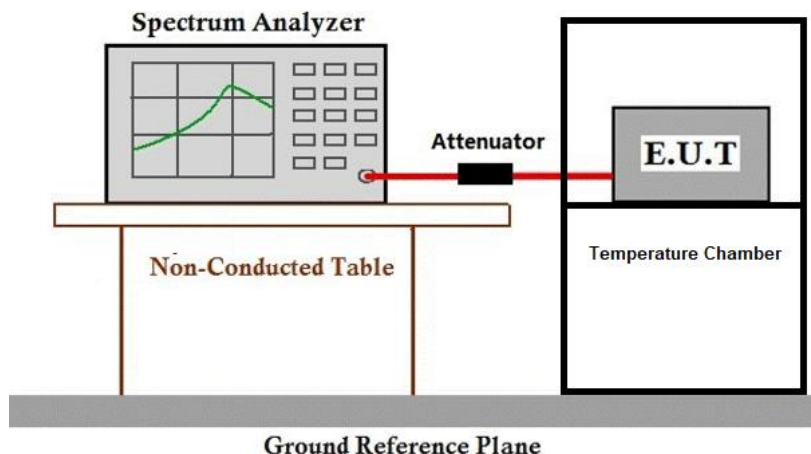
Operating Environment:

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

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram



7.12.4 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										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	5.457	5.851	93.27	0.30	0.30
			6175	RU242	Left	5.455	5.922	92.11	0.36	1.45
			6415	RU242	Left	5.457	5.886	92.71	0.33	0.85
	802.11ax (HEW40)	MIMO	5965	RU484	Left	5.455	5.929	92.01	0.36	1.41
			6165	RU484	Left	5.454	5.928	92.00	0.36	1.28
			6405	RU484	Left	5.455	5.920	92.15	0.36	1.28
	802.11ax (HEW80)	MIMO	5985	RU996	Left	5.455	5.931	91.97	0.36	1.45
			6145	RU996	Left	5.455	5.948	91.71	0.38	1.58
			6385	RU996	Left	5.455	5.875	92.85	0.32	0.27
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	5.456	5.904	92.41	0.34	1.30
			6185	2xRU996	Left	5.455	5.894	92.55	0.34	1.33
			6345	2xRU996	Left	5.455	5.886	92.68	0.33	1.06

1.1.2 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6435	RU242	Left	5.457	5.885	92.73	0.33	0.99
			6475	RU242	Left	5.455	5.948	91.71	0.38	1.85
			6515	RU242	Left	5.457	5.886	92.71	0.33	0.71
	802.11ax (HEW40)	MIMO	6445	RU484	Left	5.456	5.894	92.57	0.34	0.86
			6485	RU484	Left	5.457	5.956	91.62	0.38	1.81
	802.11ax (HEW80)	MIMO	6465	RU996	Left	5.455	5.920	92.15	0.36	1.01

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1.1.3 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	5.457	5.950	91.71	0.38	1.88
			6695	RU242	Left	5.455	5.884	92.71	0.33	0.85
			6855	RU242	Left	5.458	5.886	92.73	0.33	0.85
	802.11ax (HEW40)	MIMO	6565	RU484	Left	5.455	5.920	92.15	0.36	1.15
			6685	RU484	Left	5.455	5.928	92.02	0.36	1.28
			6845	RU484	Left	5.455	5.894	92.55	0.34	0.75
	802.11ax (HEW80)	MIMO	6625	RU996	Left	5.455	5.920	92.15	0.36	1.01
			6705	RU996	Left	5.457	5.914	92.27	0.35	1.01
			6785	RU996	Left	5.455	5.956	91.59	0.38	1.57
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	5.457	5.903	92.44	0.34	1.29

1.1.4 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6895	RU242	Left	5.455	5.886	92.68	0.33	0.88
			6995	RU242	Left	5.457	5.886	92.71	0.33	0.98
			7115	RU242	Left	5.457	5.886	92.71	0.33	0.85
	802.11ax (HEW40)	MIMO	6925	RU484	Left	5.457	5.894	92.59	0.33	0.84
			7005	RU484	Left	5.455	5.903	92.41	0.34	1.02
			7085	RU484	Left	5.457	5.930	92.02	0.36	1.28
	802.11ax (HEW80)	MIMO	6945	RU996	Left	5.457	5.930	92.02	0.36	1.27
			7025	RU996	Left	5.457	5.914	92.27	0.35	1.01
	802.11ax (HEW160)	MIMO	6985	2xRU996	Left	5.455	5.858	93.12	0.31	0.75

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1.1.5 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6875	RU242	Left	5.457	5.895	92.57	0.34	0.98
	802.11ax (HEW40)	MIMO	6885	RU484	Left	5.457	5.922	92.15	0.36	1.28
	802.11ax (HEW80)	MIMO	6865	RU996	Left	5.458	5.914	92.29	0.35	0.87
	802.11ax (HEW160)	MIMO	6825	2xRU996	Left	5.457	5.878	92.84	0.32	0.88

1.1.6 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	5.455	5.894	92.55	0.34	0.88
	802.11ax (HEW80)	MIMO	6545	RU996	Left	5.455	5.920	92.15	0.36	1.01
	802.11ax (HEW160)	MIMO	6505	2xRU996	Left	5.455	5.903	92.41	0.34	1.32



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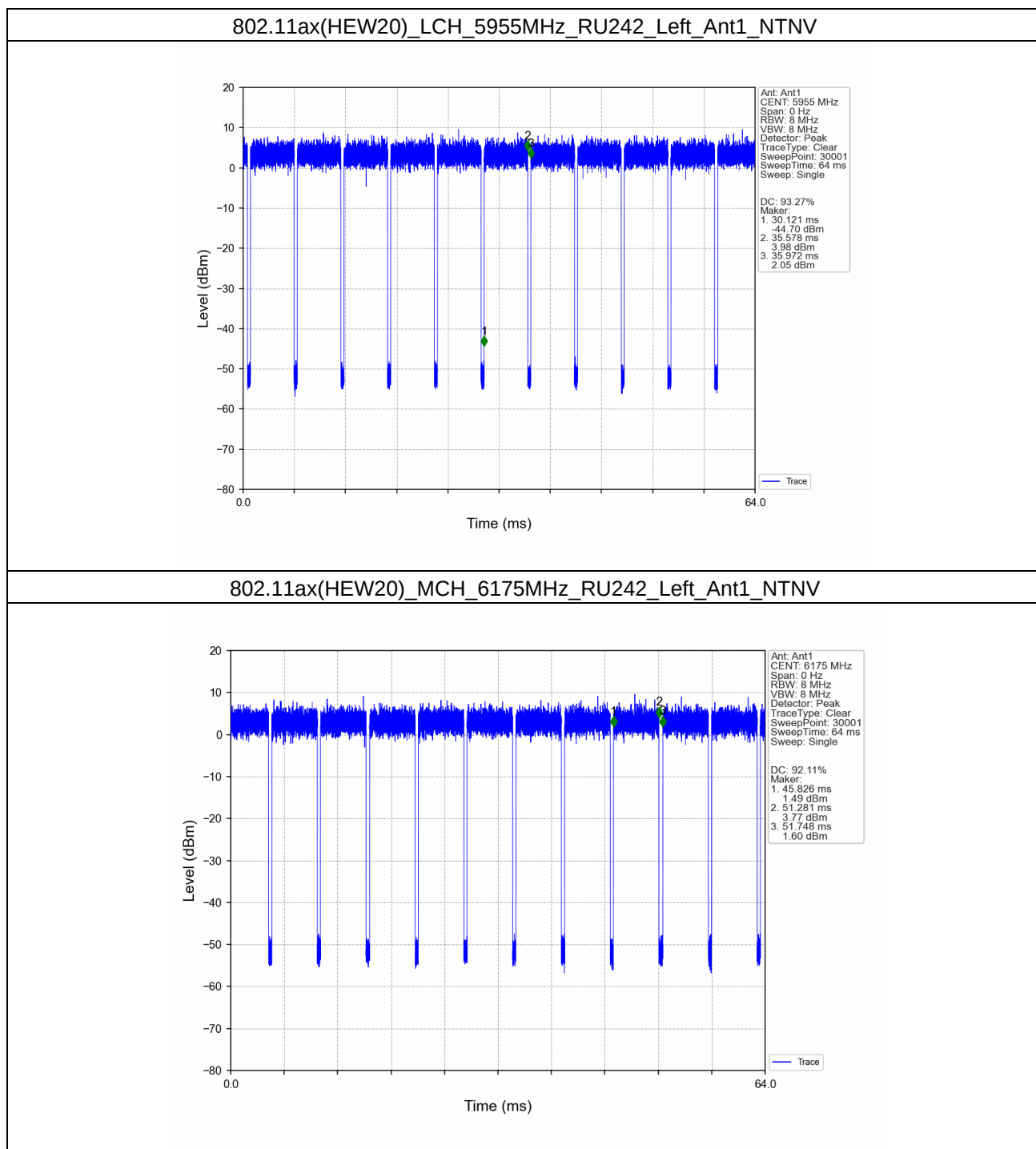
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1.2 Test Graph

1.2.1 Ant1



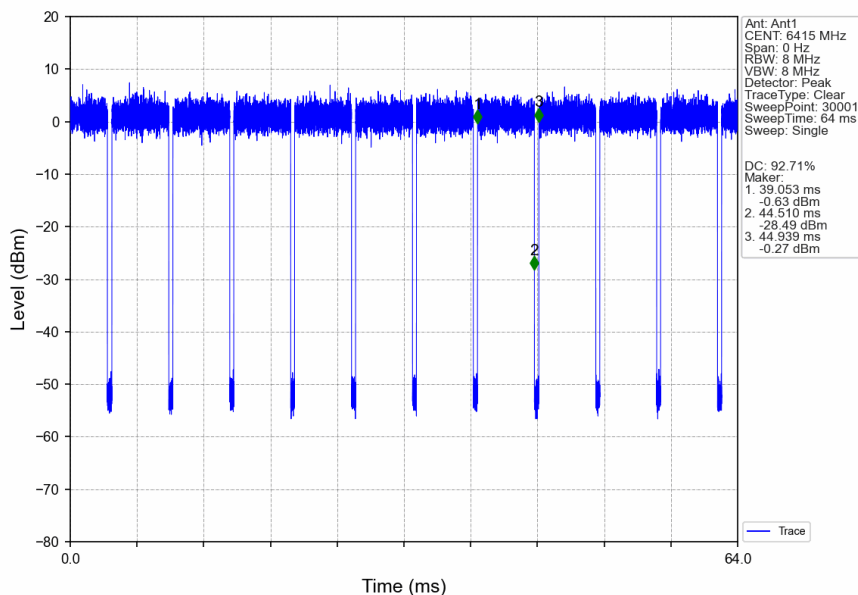
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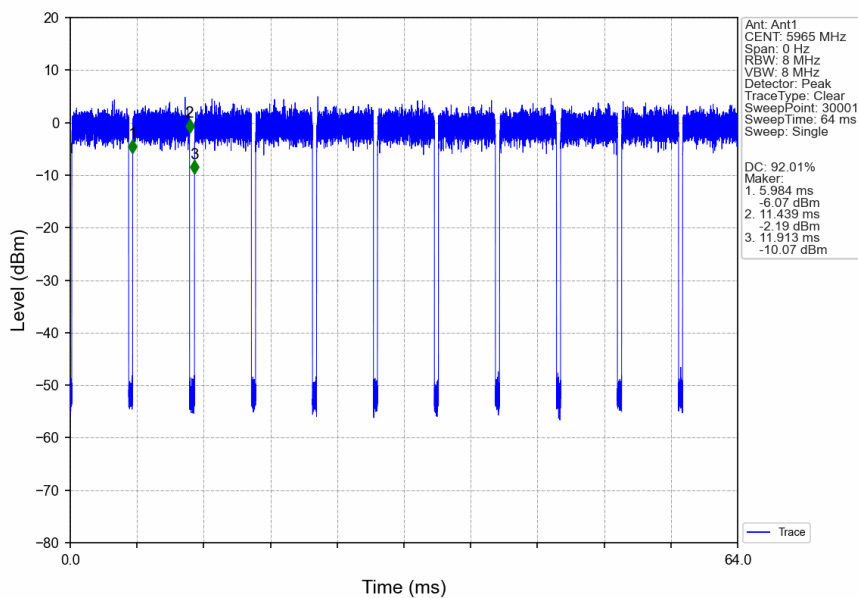
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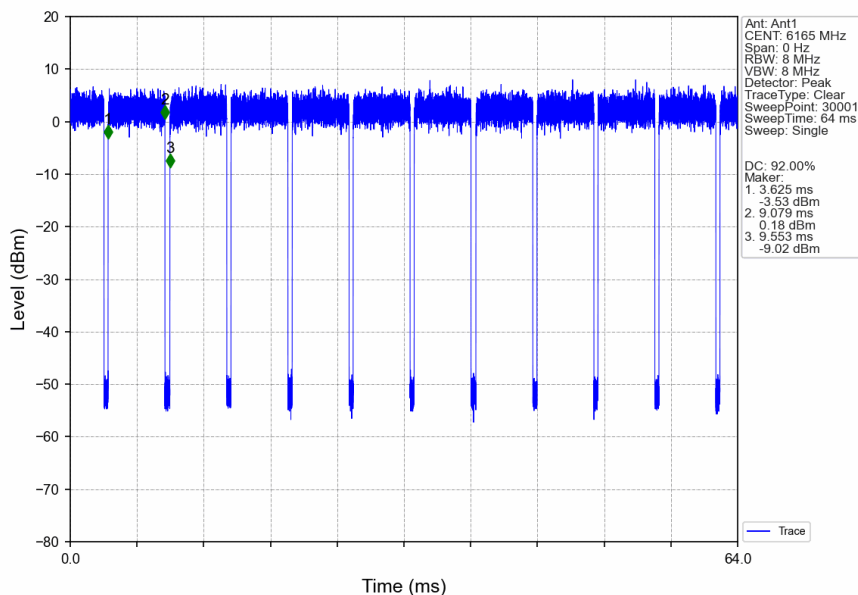
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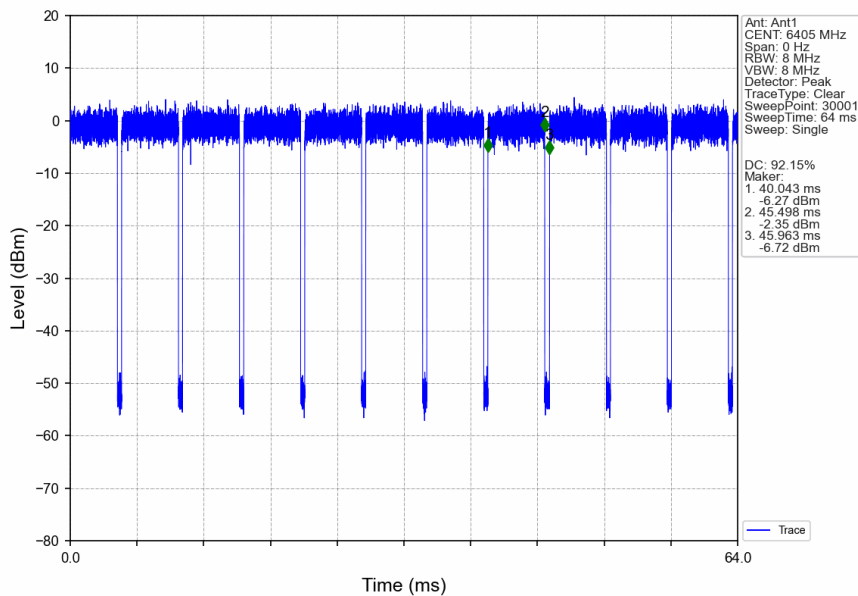
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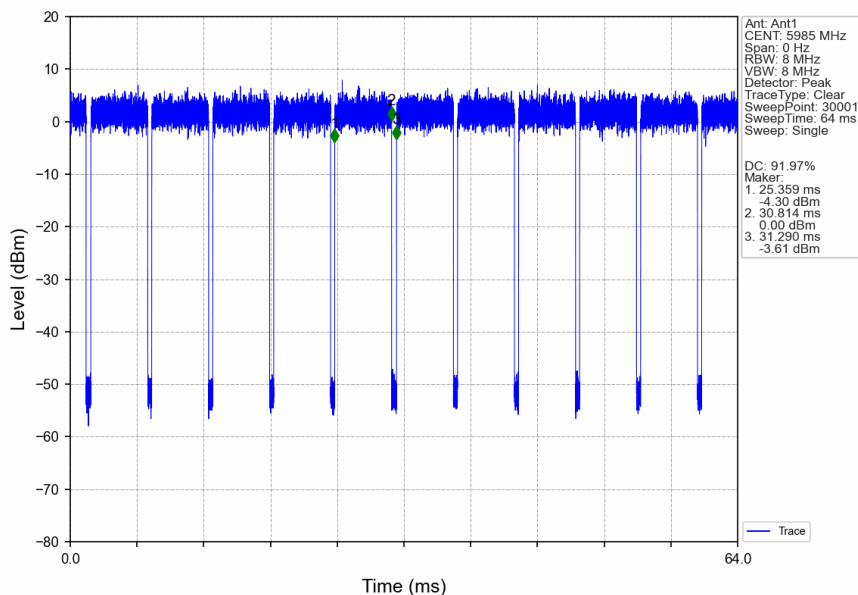
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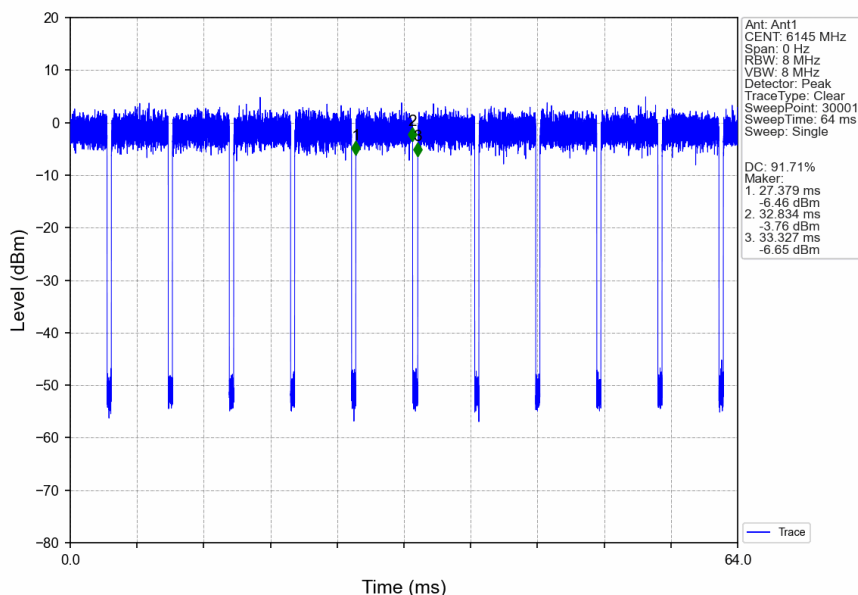
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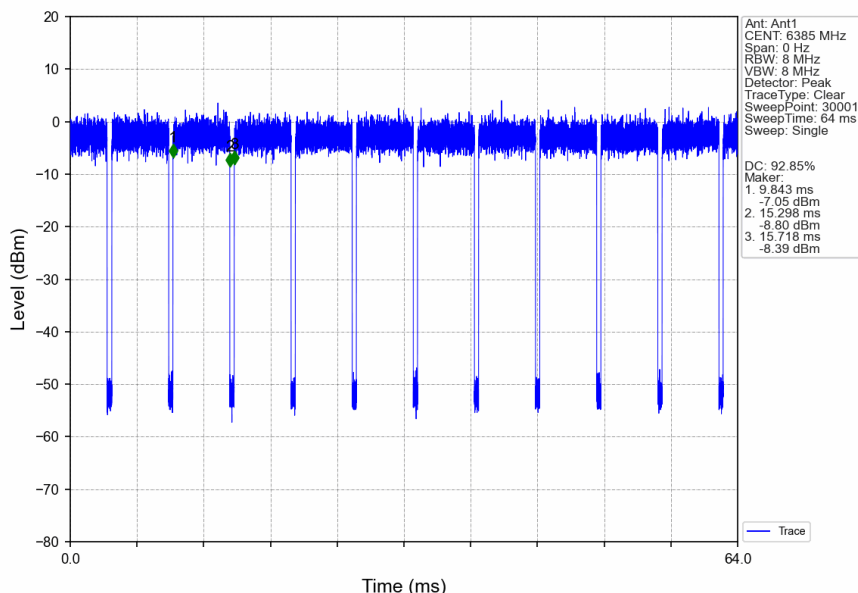
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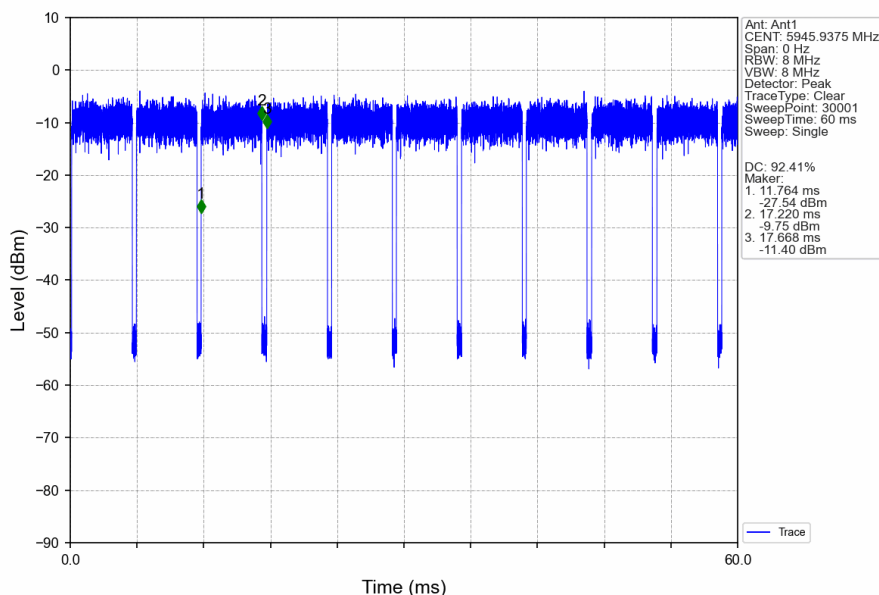
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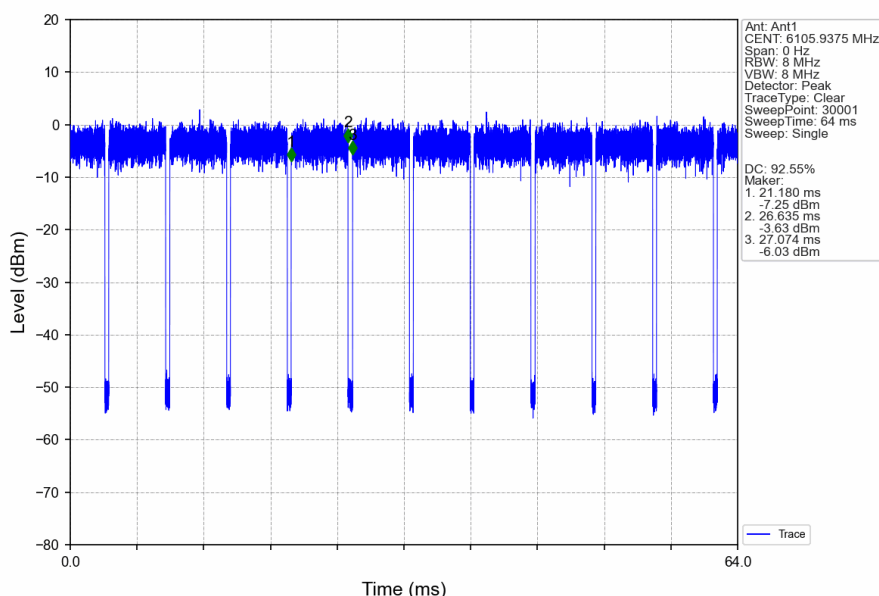
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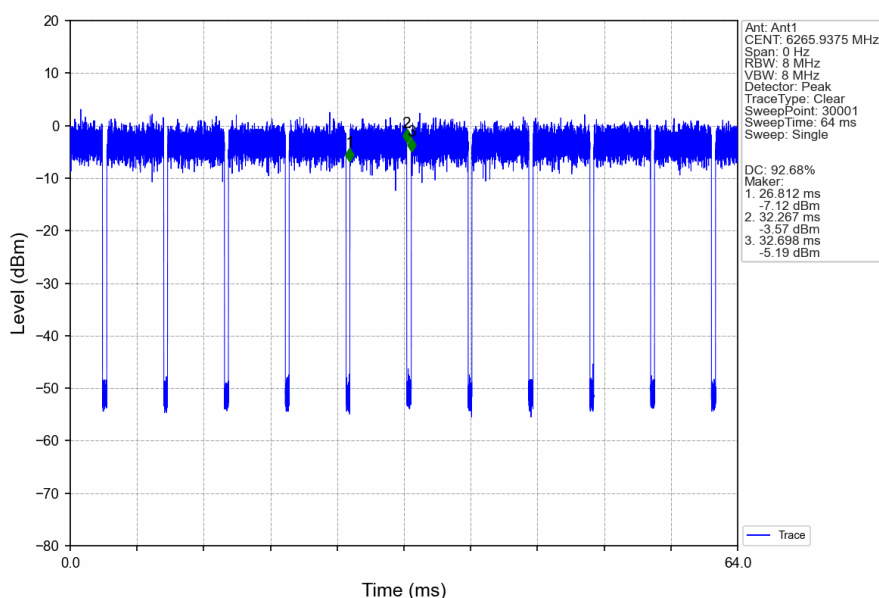
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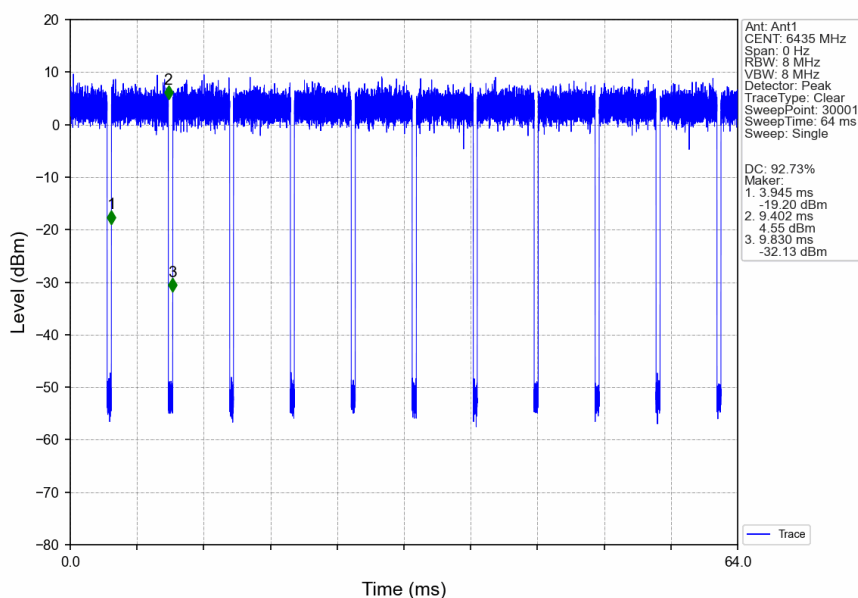


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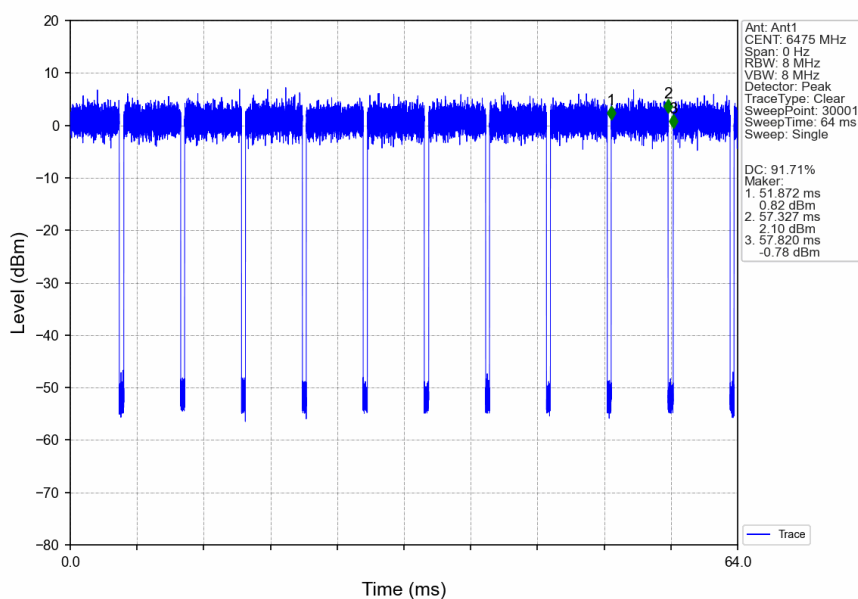


1.2.2 Ant1

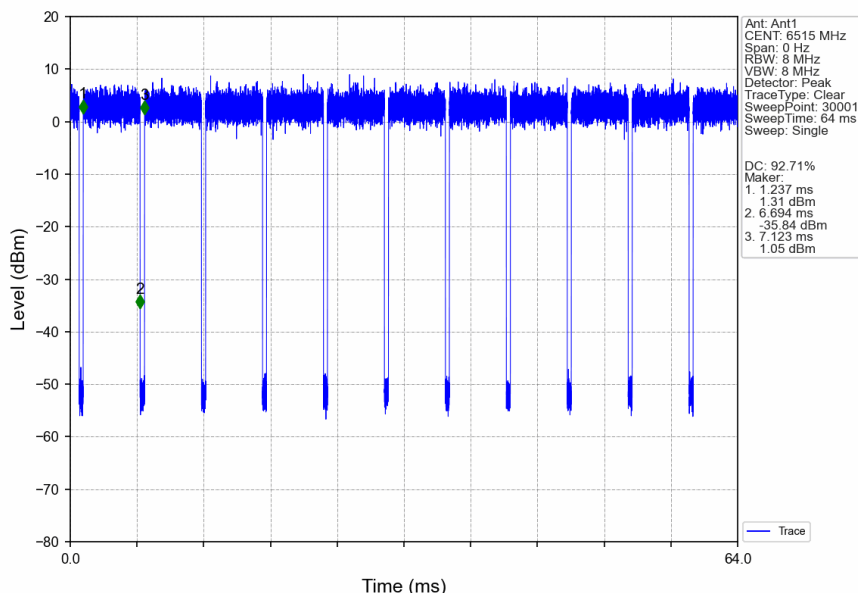
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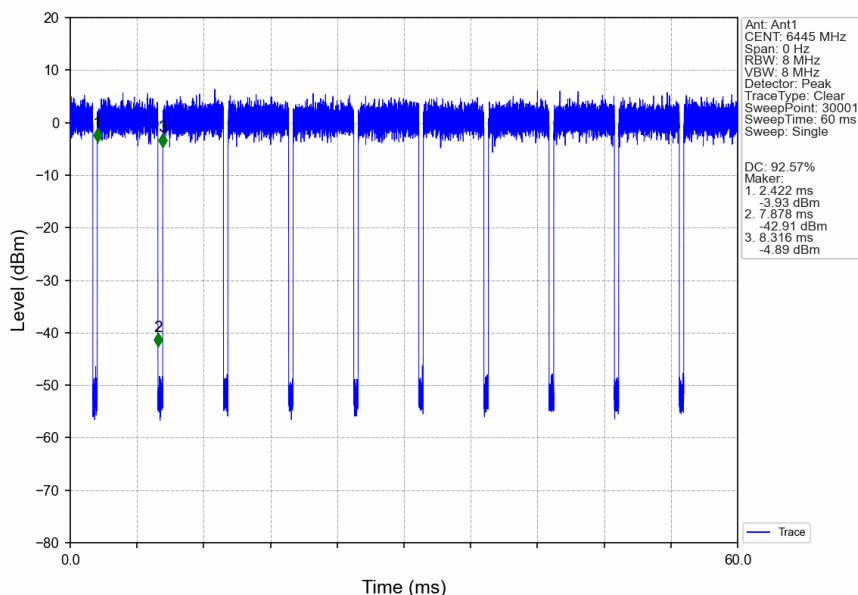
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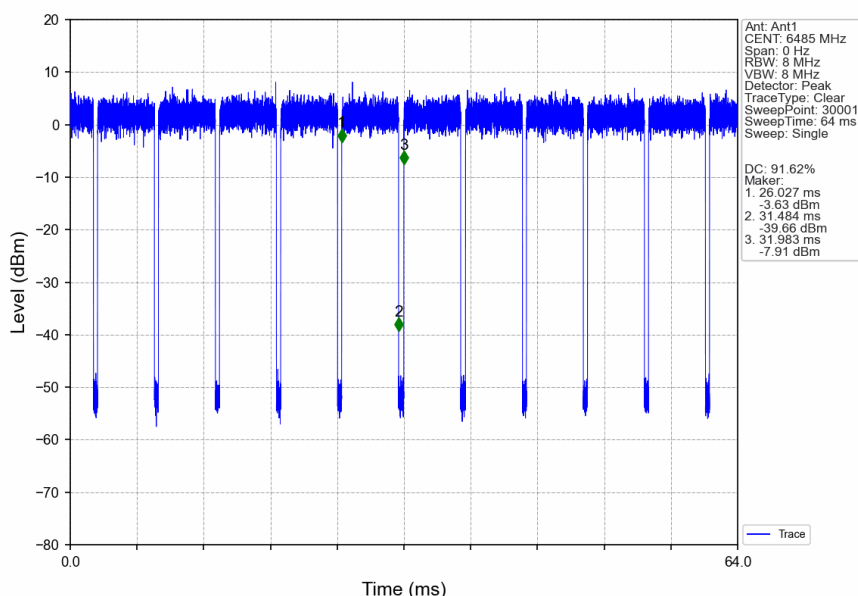
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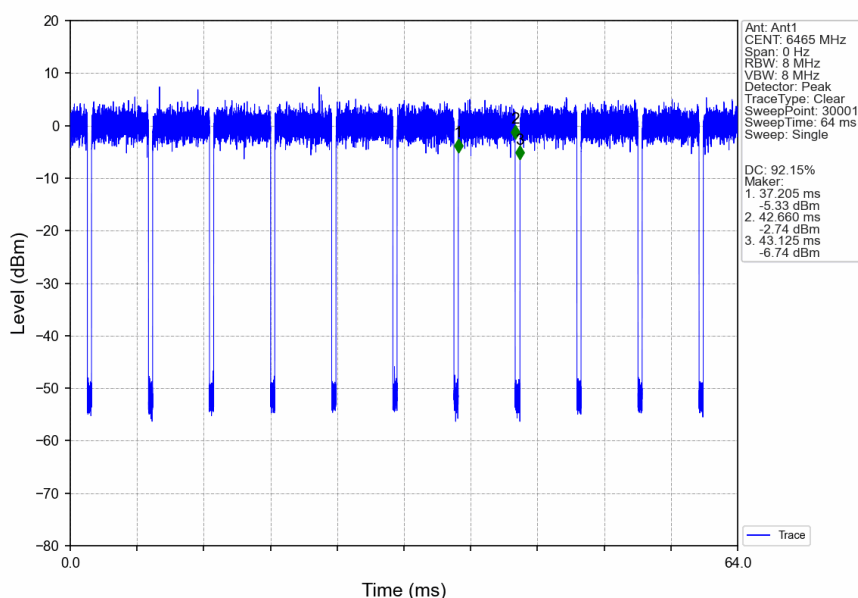
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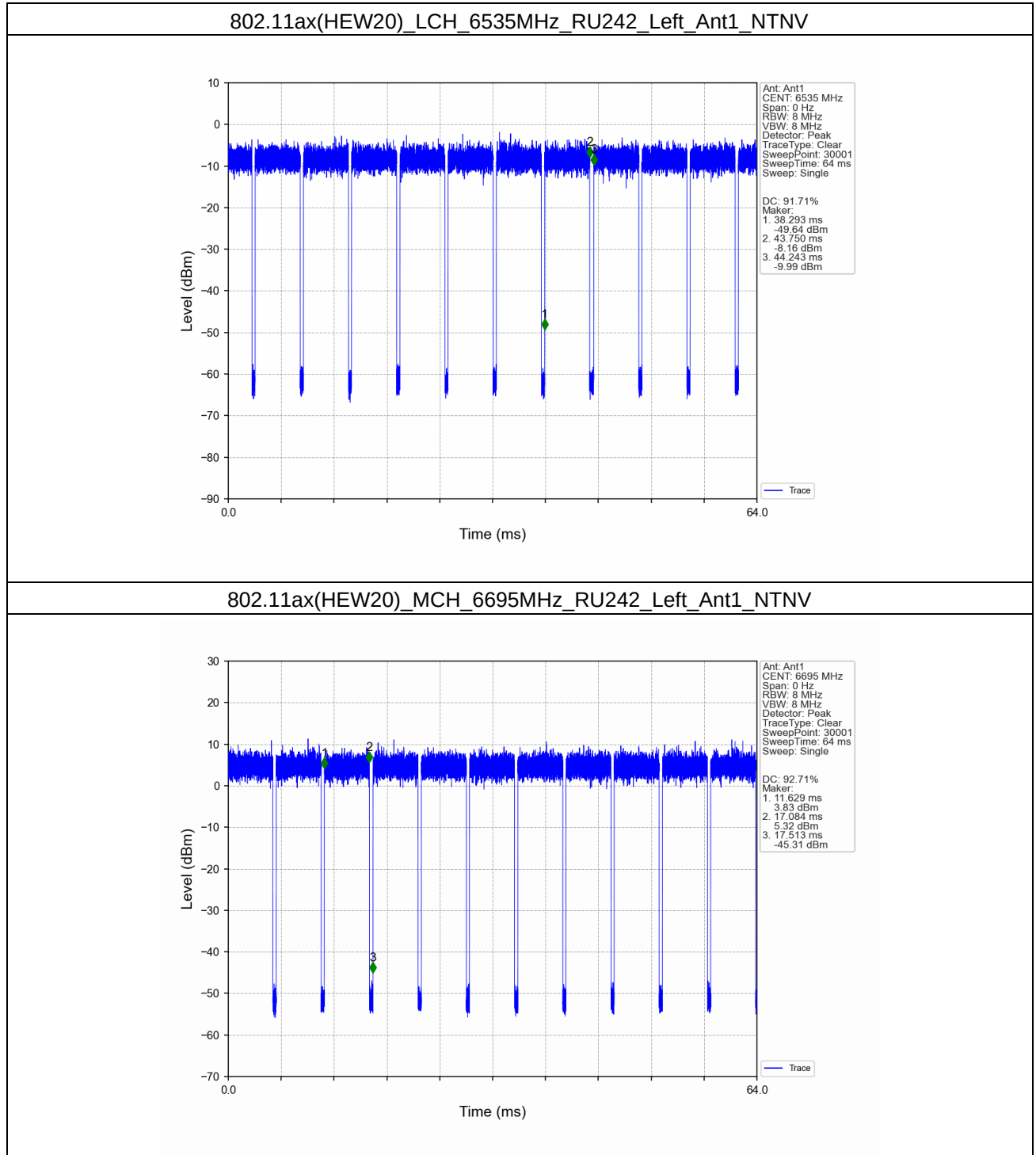
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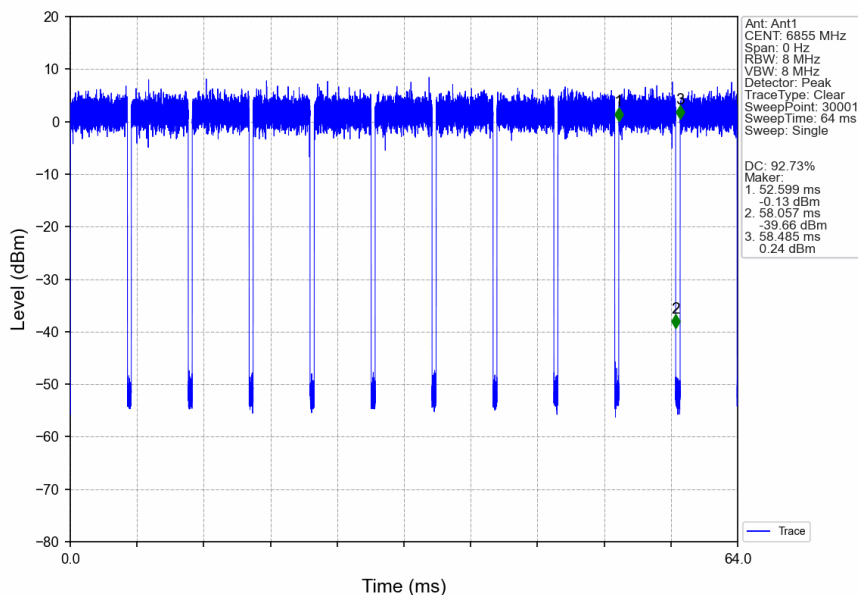
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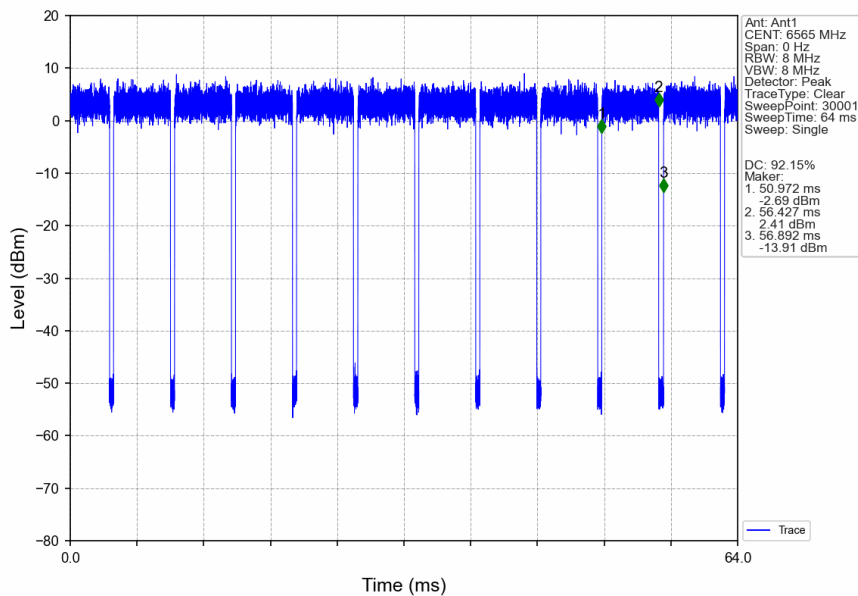
1.2.3 Ant1



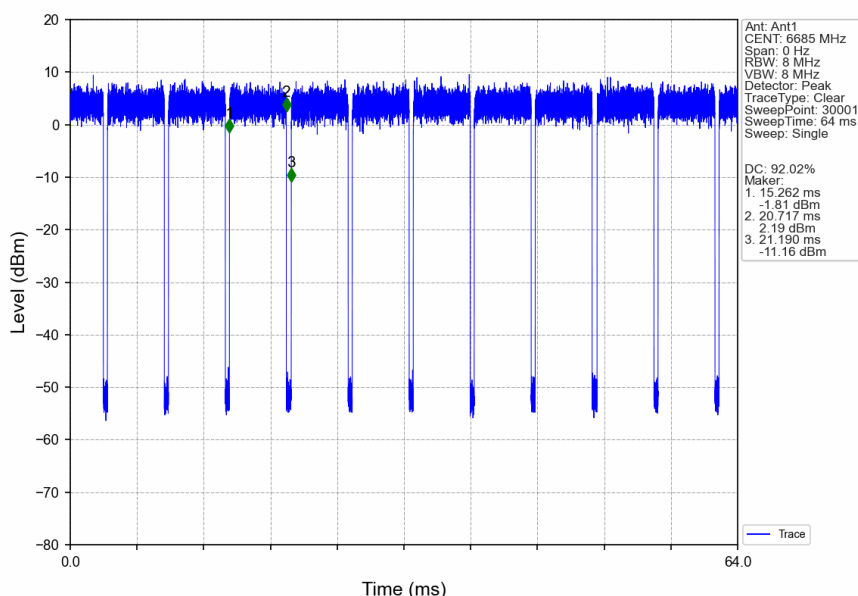
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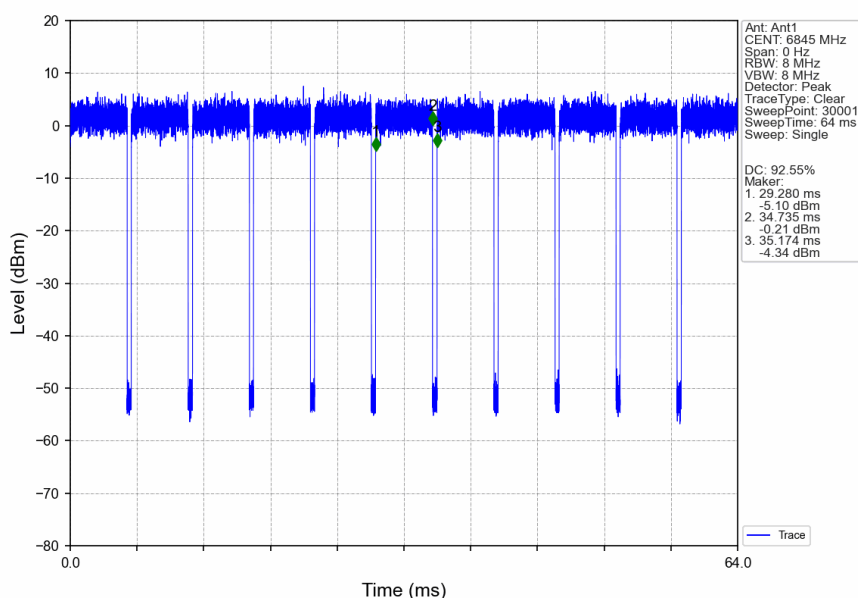
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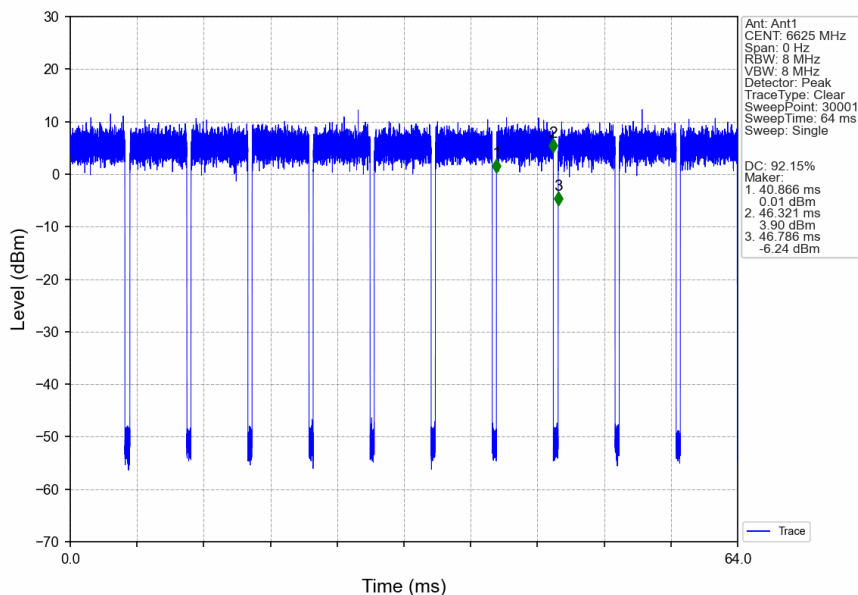
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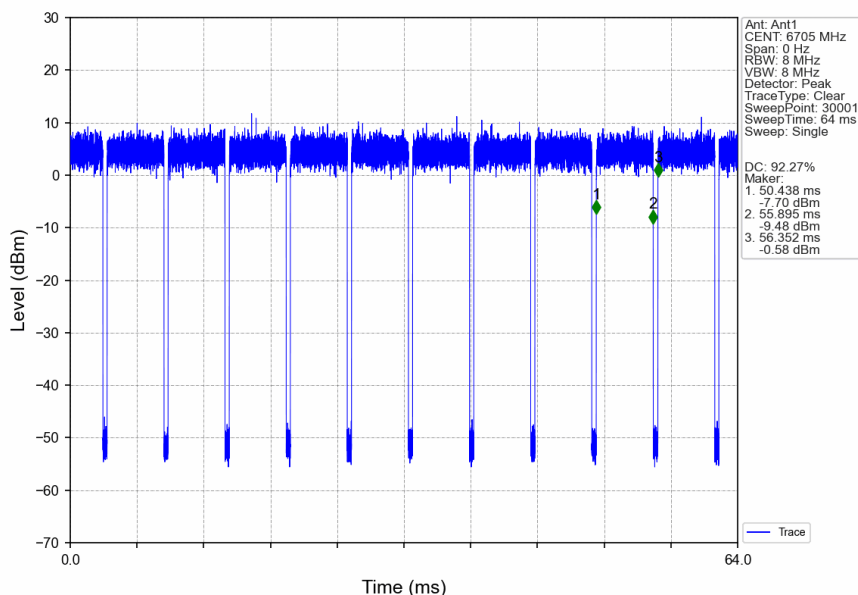
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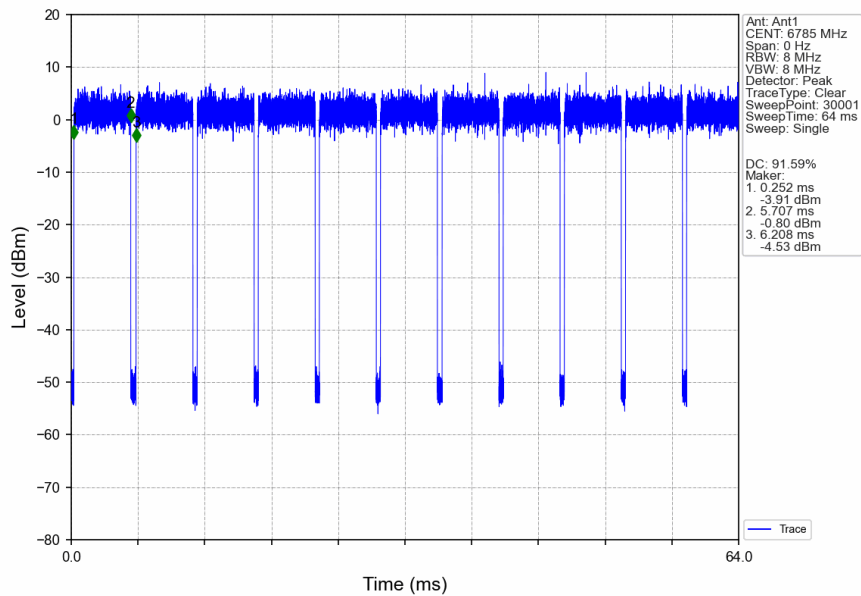
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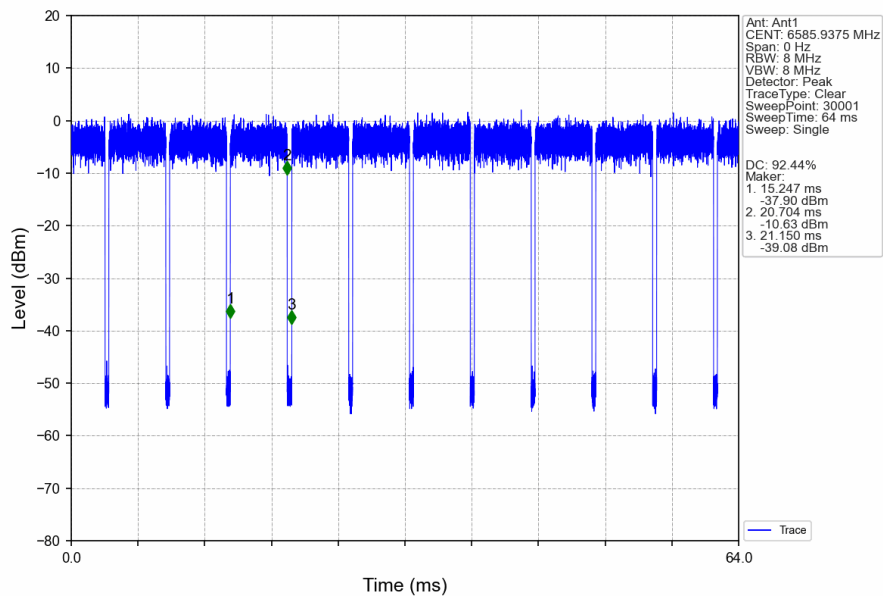
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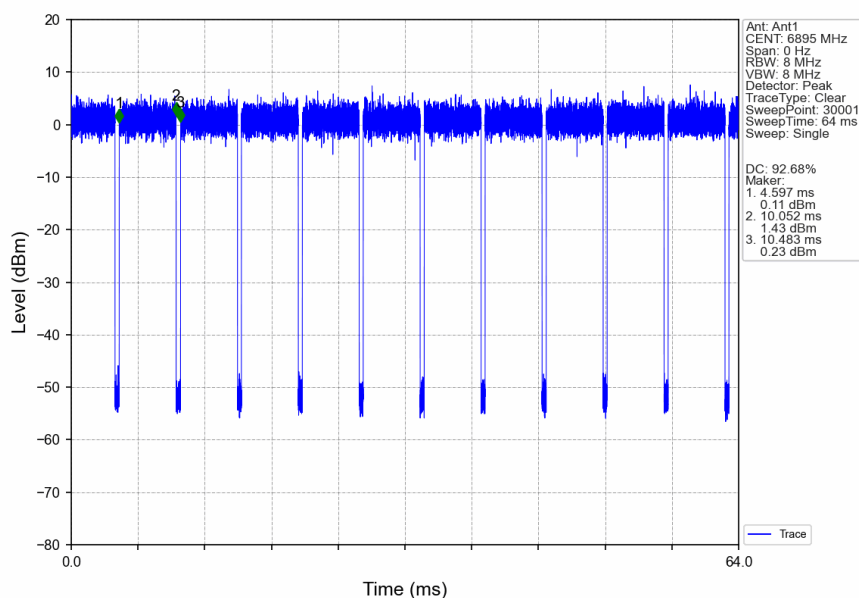


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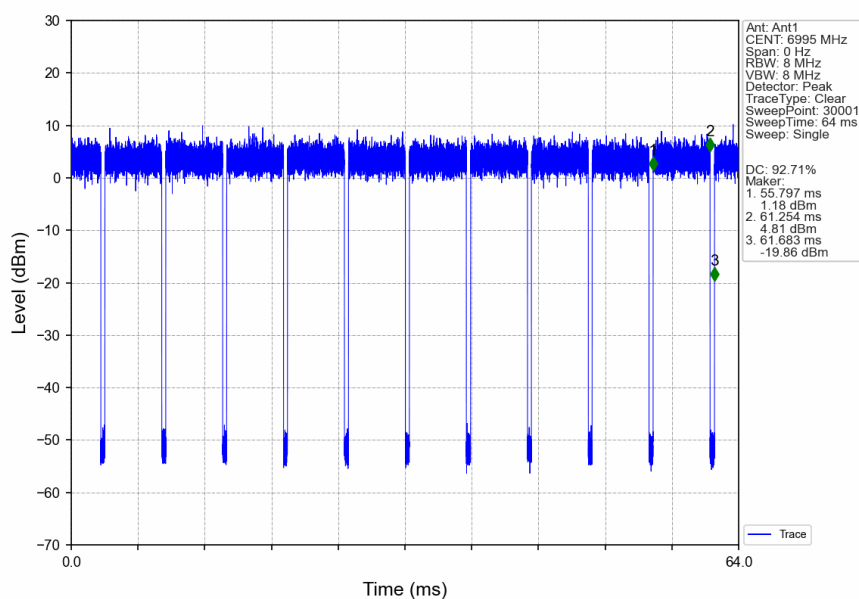


1.2.4 Ant1

802.11ax(HEW20)_LCH_6895MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW20)_MCH_6995MHz_RU242_Left_Ant1_NTNV



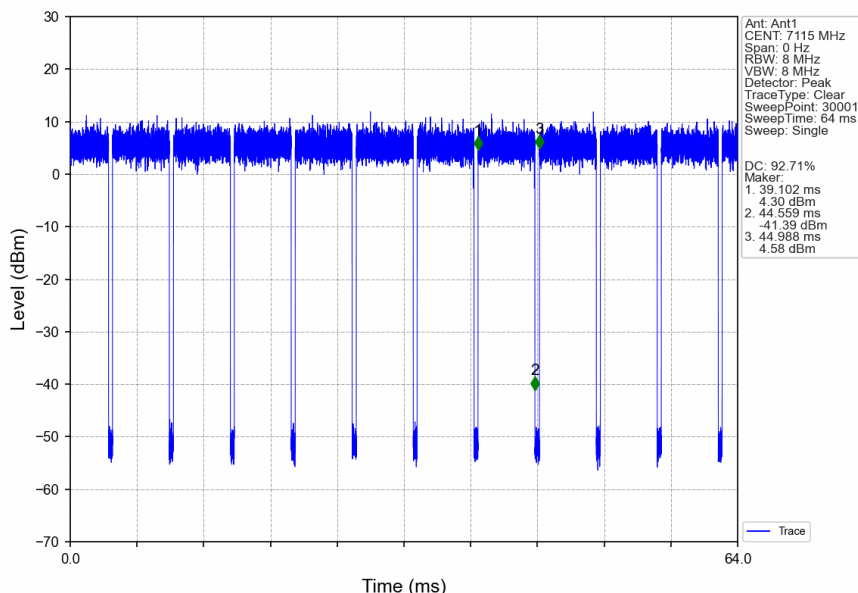
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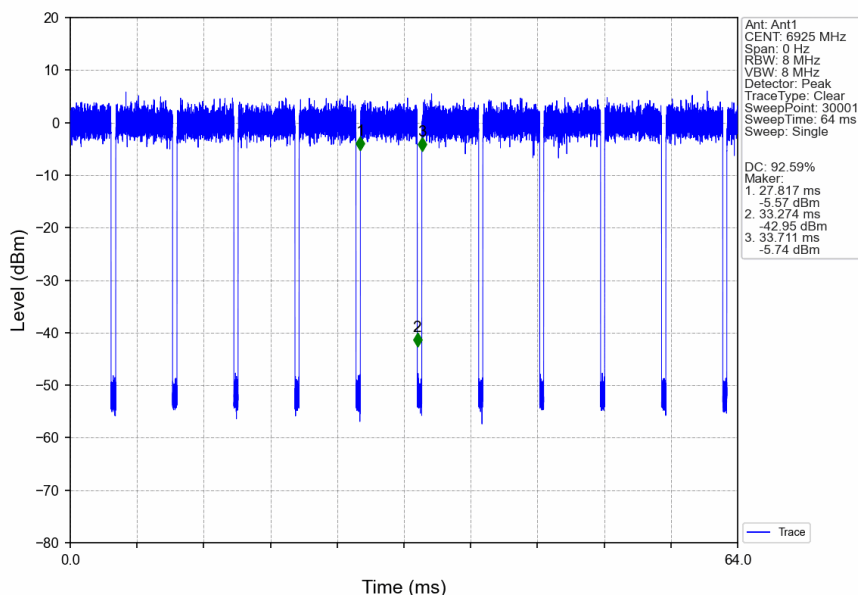
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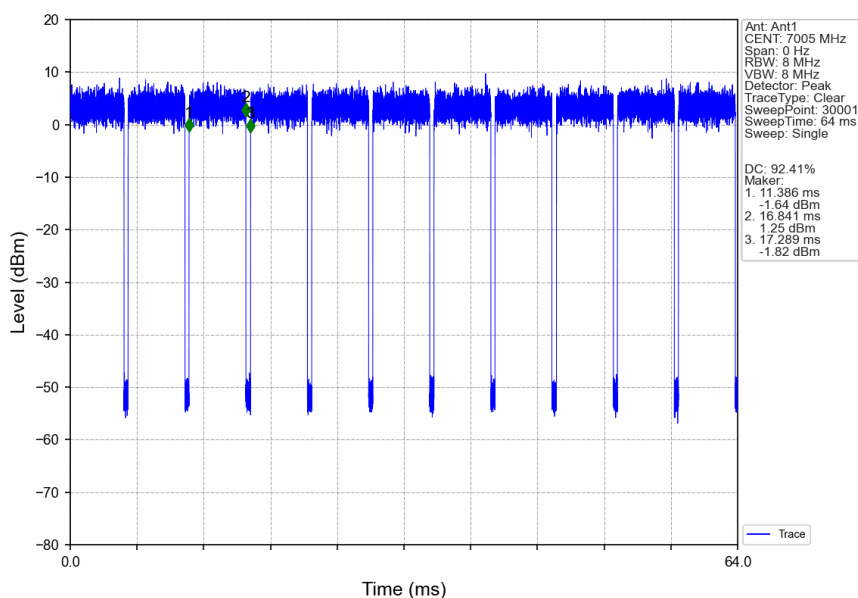
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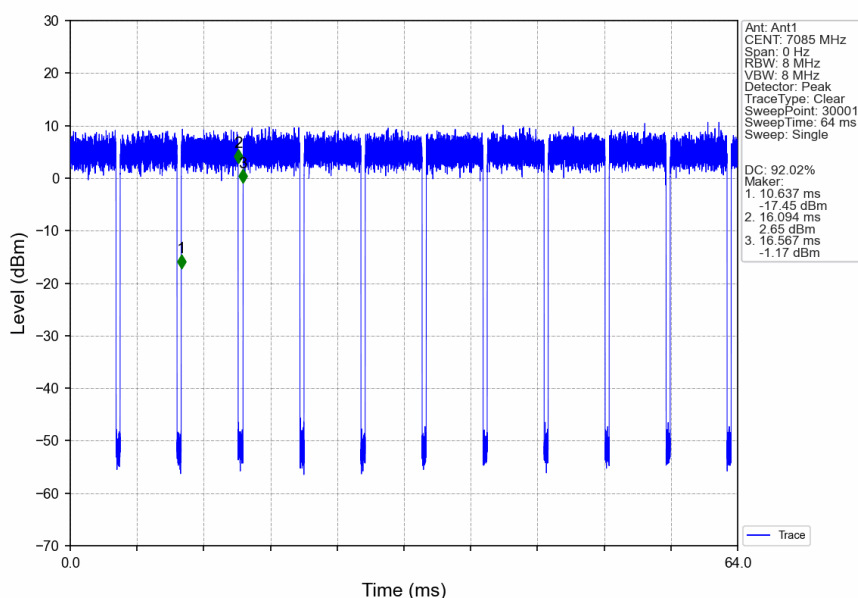
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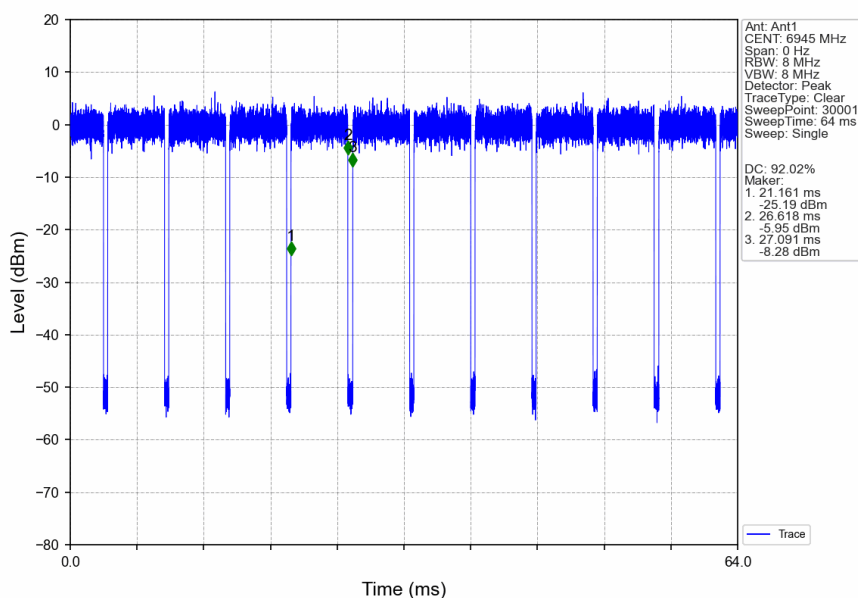
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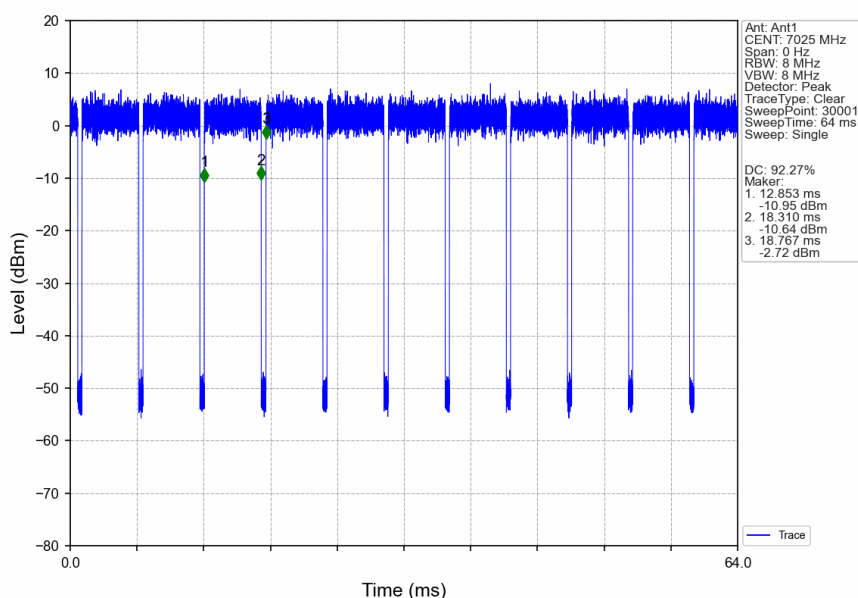
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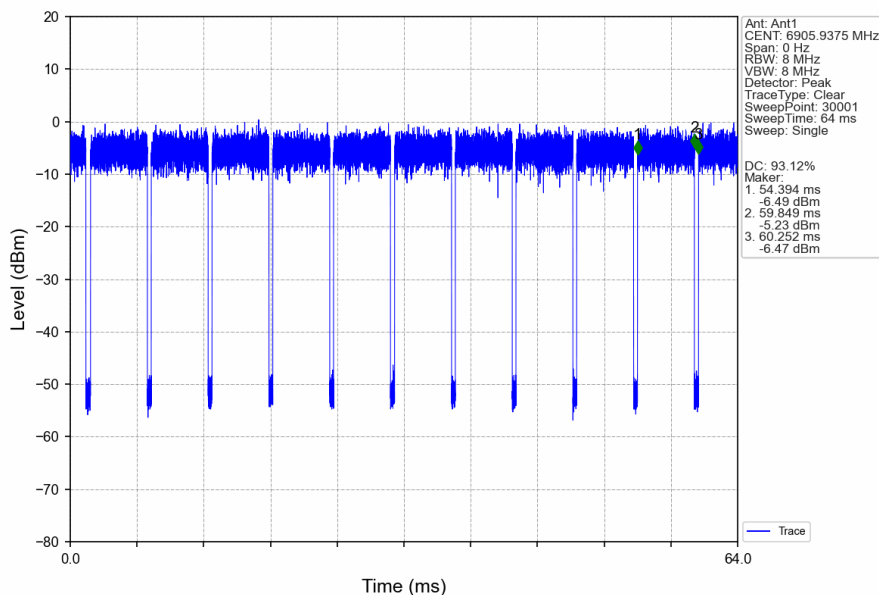
802.11ax(HEW80)_LCH_6945MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_HCH_7025MHz_RU996_Left_Ant1_NTNV

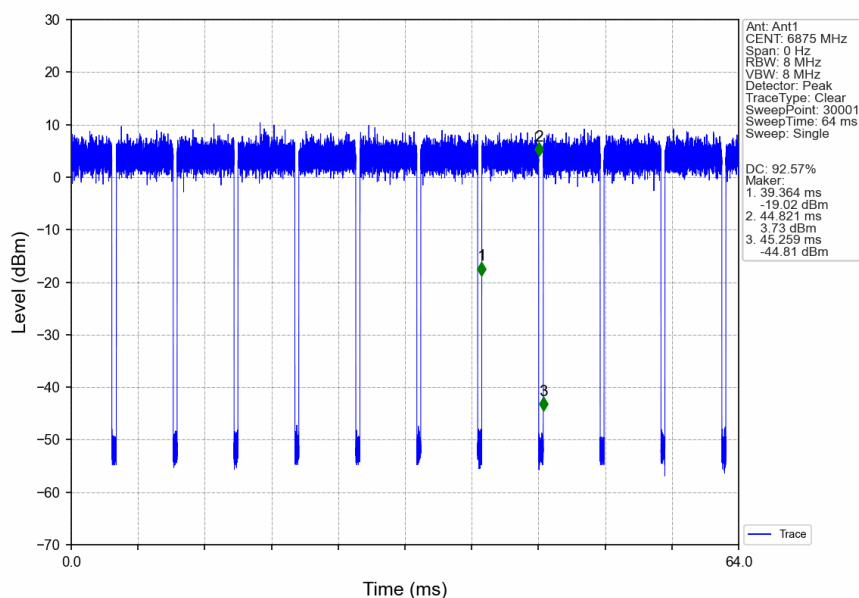


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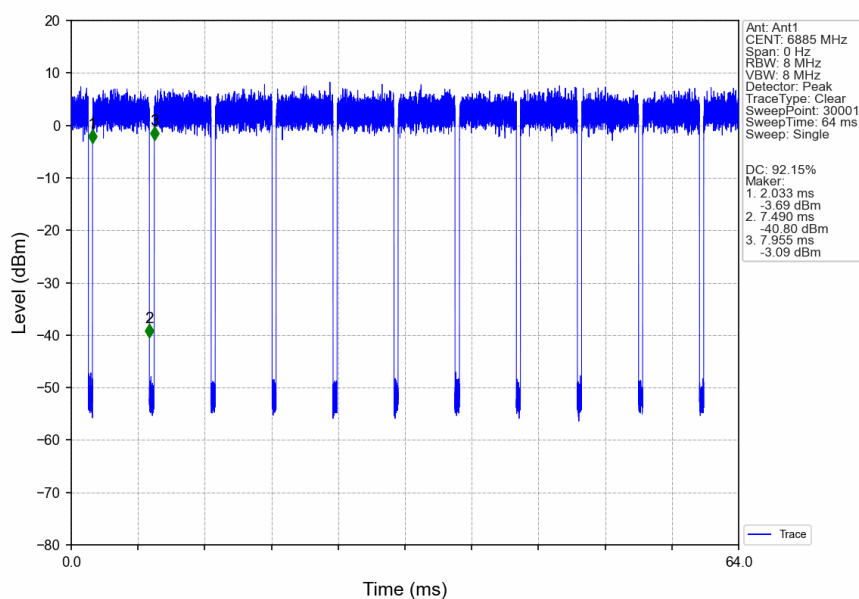


1.2.5 Ant1

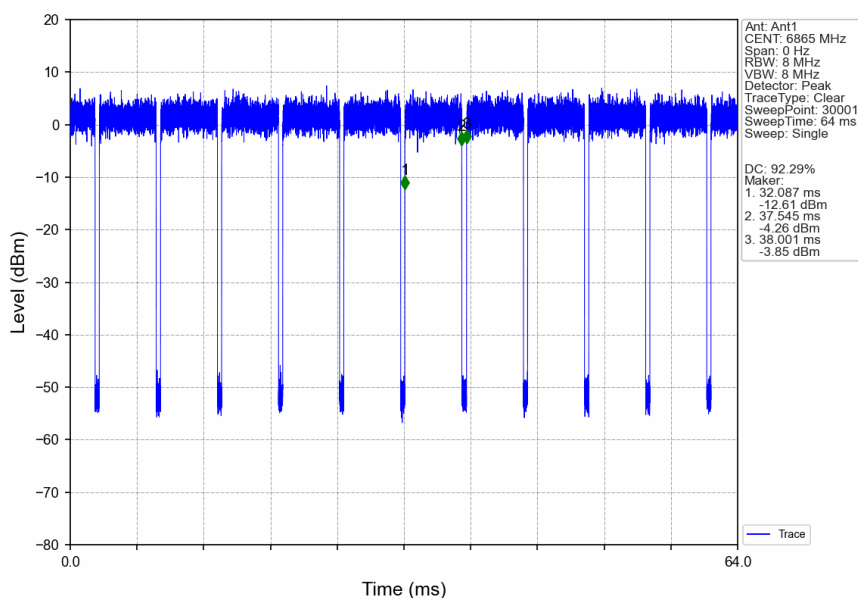
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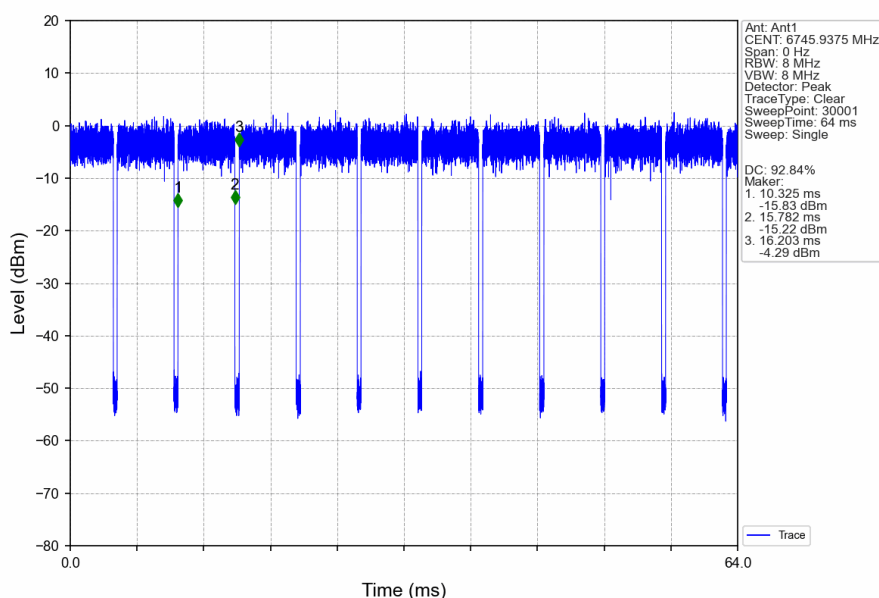
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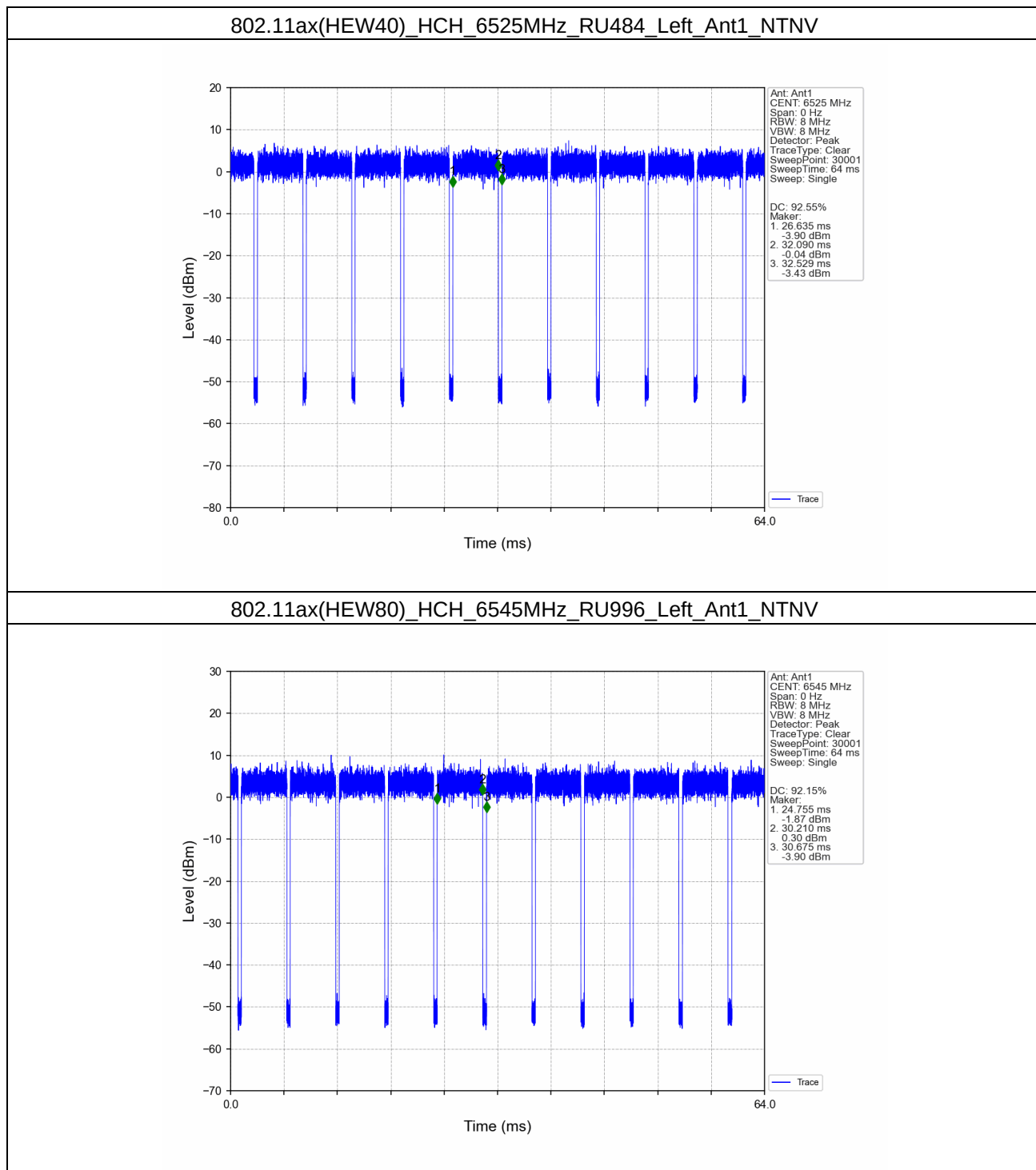
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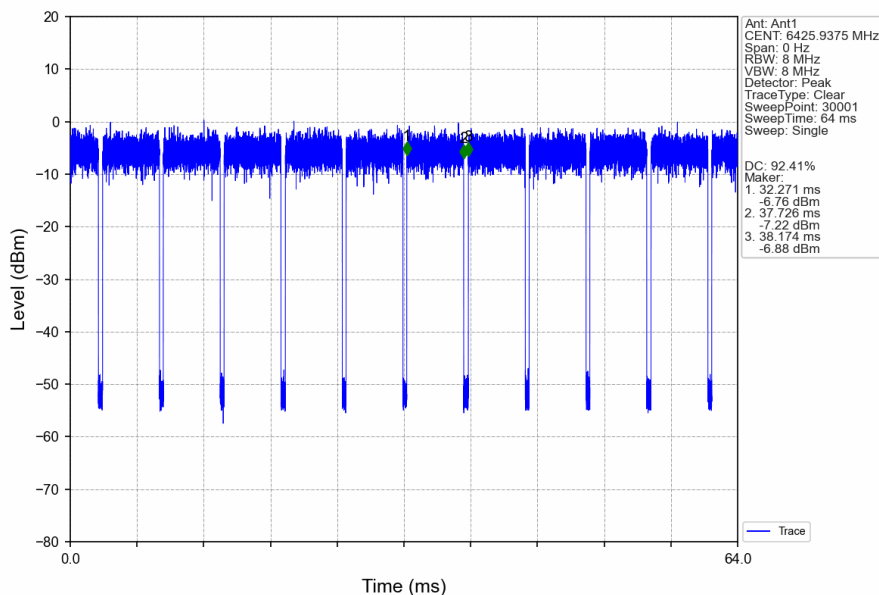
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1.2.6 Ant1



802.11ax(HEW160)_HCH_6505MHz_2xRU996_Left_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	1	19.026	<=320	Pass
			6175	RU242	Left	1	19.005	<=320	Pass
			6415	RU242	Left	1	18.962	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	1	37.765	<=320	Pass
			6165	RU484	Left	1	37.854	<=320	Pass
			6405	RU484	Left	1	37.766	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	1	77.122	<=320	Pass
			6145	RU996	Left	1	77.384	<=320	Pass
			6385	RU996	Left	1	77.339	<=320	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	1	156.837	<=320	Pass
			6185	2xRU996	Left	1	156.402	<=320	Pass
			6345	2xRU996	Left	1	156.934	<=320	Pass

2.1.2 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	1	20.617	/	Pass
			6175	RU242	Left	1	20.872	/	Pass
			6415	RU242	Left	1	20.859	/	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	1	40.118	/	Pass
			6165	RU484	Left	1	40.272	/	Pass
			6405	RU484	Left	1	40.043	/	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	1	81.769	/	Pass
			6145	RU996	Left	1	81.887	/	Pass
			6385	RU996	Left	1	81.647	/	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	1	164.023	/	Pass
			6185	2xRU996	Left	1	164.767	/	Pass
			6345	2xRU996	Left	1	164.797	/	Pass

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2.1.3 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6435	RU242	Left	1	18.992	<=320	Pass
			6475	RU242	Left	1	18.942	<=320	Pass
			6515	RU242	Left	1	18.930	<=320	Pass
	802.11ax (HEW40)	MIMO	6445	RU484	Left	1	37.714	<=320	Pass
			6485	RU484	Left	1	37.666	<=320	Pass
	802.11ax (HEW80)	MIMO	6465	RU996	Left	1	77.290	<=320	Pass

2.1.4 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6435	RU242	Left	1	20.867	/	Pass
			6475	RU242	Left	1	20.853	/	Pass
			6515	RU242	Left	1	20.538	/	Pass
	802.11ax (HEW40)	MIMO	6445	RU484	Left	1	40.158	/	Pass
			6485	RU484	Left	1	40.334	/	Pass
	802.11ax (HEW80)	MIMO	6465	RU996	Left	1	81.398	/	Pass

2.1.5 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	1	18.968	<=320	Pass
			6695	RU242	Left	1	18.995	<=320	Pass
			6855	RU242	Left	1	19.032	<=320	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	1	37.800	<=320	Pass
			6685	RU484	Left	1	37.743	<=320	Pass
			6845	RU484	Left	1	37.864	<=320	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	1	77.589	<=320	Pass
			6705	RU996	Left	1	77.406	<=320	Pass
			6785	RU996	Left	1	77.445	<=320	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	1	156.278	<=320	Pass



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2.1.6 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	1	20.815	/	Pass
			6695	RU242	Left	1	20.691	/	Pass
			6855	RU242	Left	1	20.843	/	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	1	40.279	/	Pass
			6685	RU484	Left	1	40.637	/	Pass
			6845	RU484	Left	1	39.944	/	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	1	81.734	/	Pass
			6705	RU996	Left	1	81.930	/	Pass
			6785	RU996	Left	1	81.795	/	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	1	164.613	/	Pass

2.1.7 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6895	RU242	Left	1	19.072	<=320	Pass
			6995	RU242	Left	1	19.075	<=320	Pass
			7115	RU242	Left	1	19.015	<=320	Pass
	802.11ax (HEW40)	MIMO	6925	RU484	Left	1	37.867	<=320	Pass
			7005	RU484	Left	1	37.899	<=320	Pass
			7085	RU484	Left	1	37.908	<=320	Pass
	802.11ax (HEW80)	MIMO	6945	RU996	Left	1	77.551	<=320	Pass
			7025	RU996	Left	1	77.583	<=320	Pass
	802.11ax (HEW160)	MIMO	6985	2xRU996	Left	1	157.079	<=320	Pass

2.1.8 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6895	RU242	Left	1	20.873	/	Pass
			6995	RU242	Left	1	20.883	/	Pass
			7115	RU242	Left	1	20.893	/	Pass
	802.11ax (HEW40)	MIMO	6925	RU484	Left	1	40.163	/	Pass
			7005	RU484	Left	1	40.202	/	Pass
			7085	RU484	Left	1	40.276	/	Pass



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	802.11ax (HEW80)	MIMO	6945	RU996	Left	1	81.641	/	Pass
			7025	RU996	Left	1	81.555	/	Pass
	802.11ax (HEW160)	MIMO	6985	2xRU996	Left	1	166.986	/	Pass

2.1.9 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6875	RU242	Left	1	19.113	<=320	Pass
	802.11ax (HEW40)	MIMO	6885	RU484	Left	1	37.934	<=320	Pass
	802.11ax (HEW80)	MIMO	6865	RU996	Left	1	77.470	<=320	Pass
	802.11ax (HEW160)	MIMO	6825	2xRU996	Left	1	156.194	<=320	Pass

2.1.10 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6875	RU242	Left	1	21.004	/	Pass
	802.11ax (HEW40)	MIMO	6885	RU484	Left	1	40.166	/	Pass
	802.11ax (HEW80)	MIMO	6865	RU996	Left	1	81.847	/	Pass
	802.11ax (HEW160)	MIMO	6825	2xRU996	Left	1	164.925	/	Pass

2.1.11 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	1	37.920	<=320	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	1	77.380	<=320	Pass
	802.11ax (HEW160)	MIMO	6505	2xRU996	Left	1	156.886	<=320	Pass



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2.1.12 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	1	40.065	/	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	1	81.843	/	Pass
	802.11ax (HEW160)	MIMO	6505	2xRU996	Left	1	164.340	/	Pass



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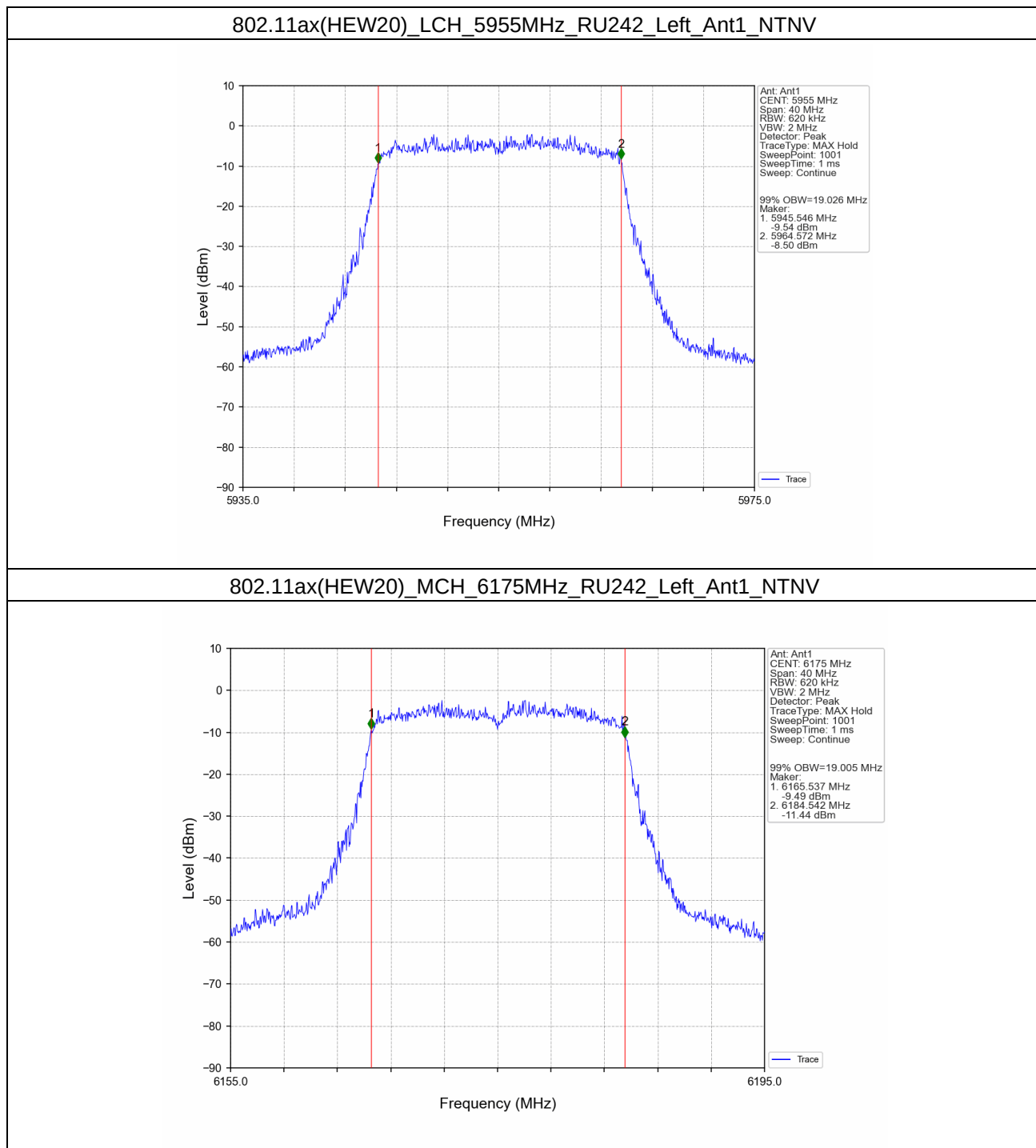
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2.2 Test Graph

2.2.1 OBW



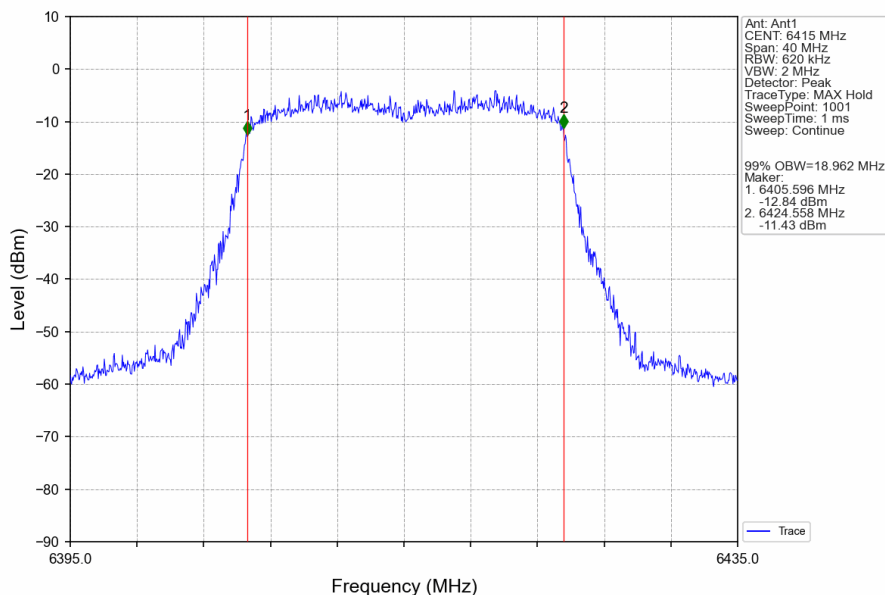
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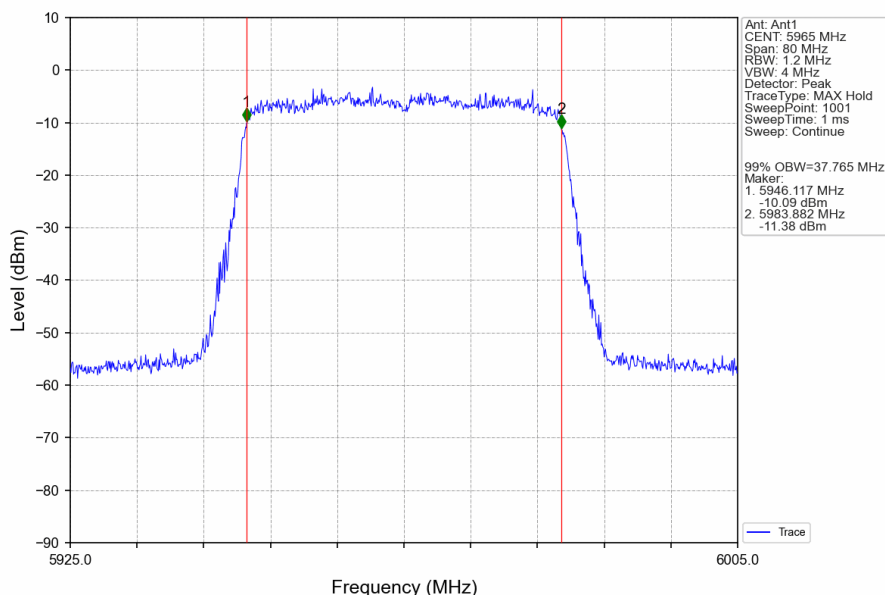
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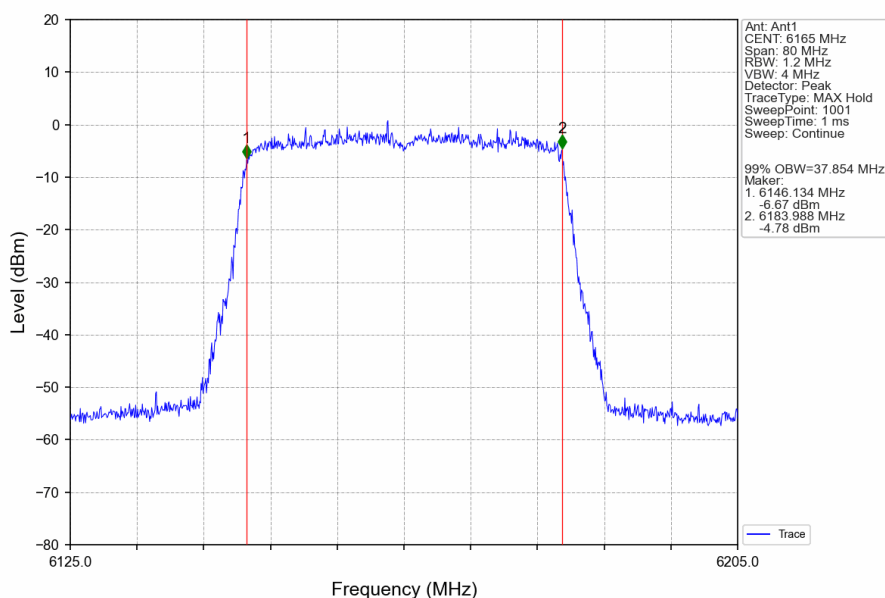
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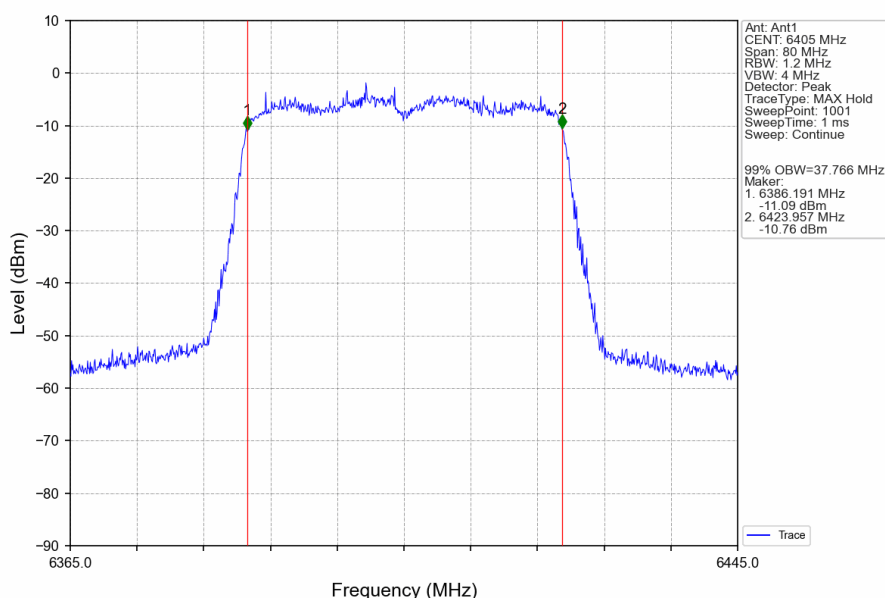
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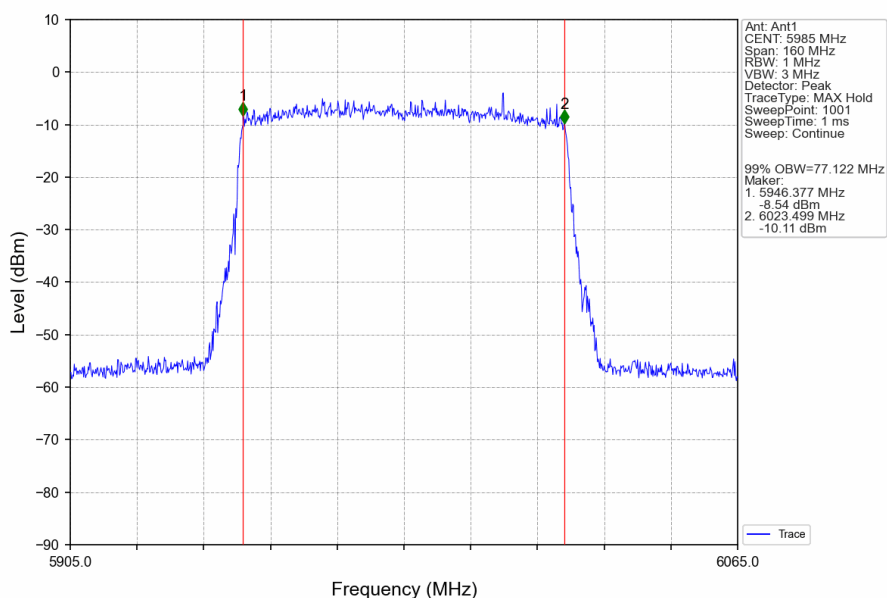
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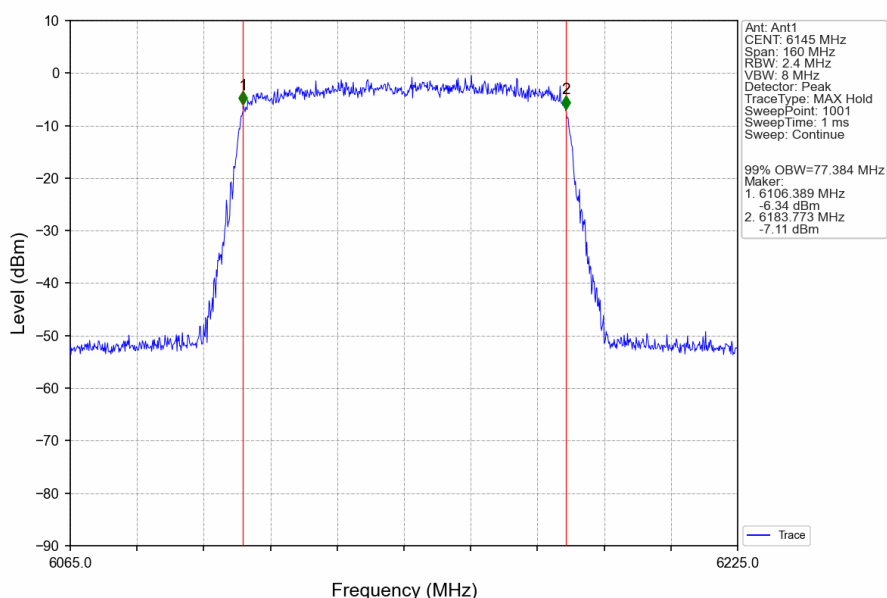
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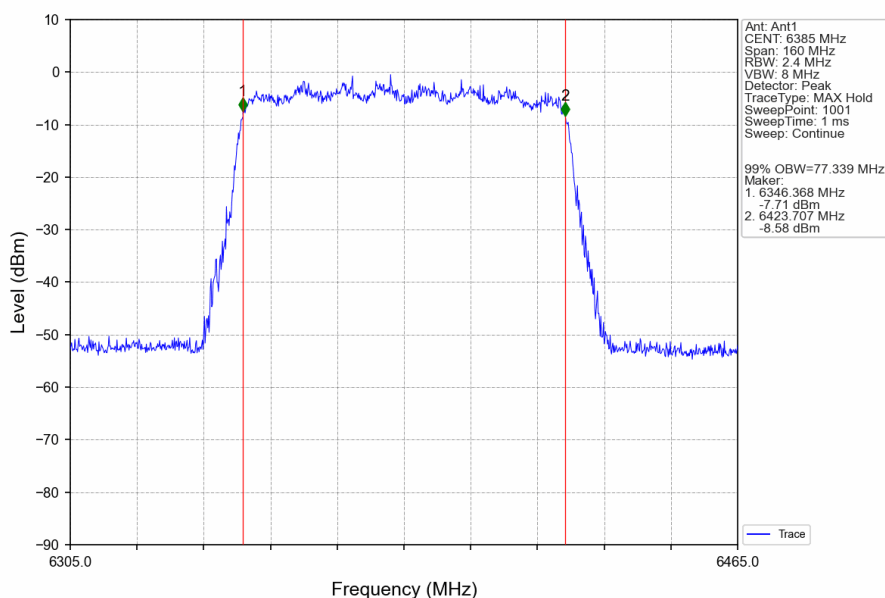
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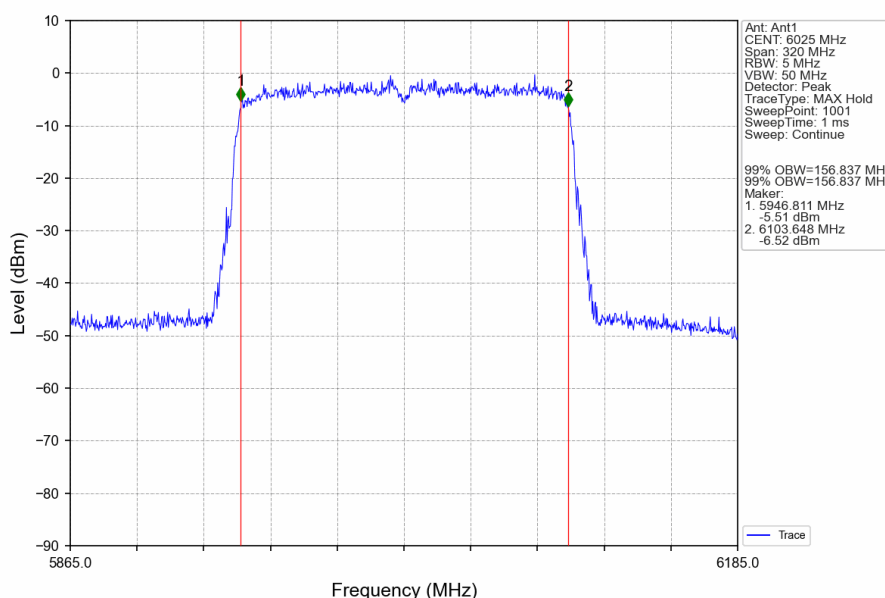
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802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant1_NTNV



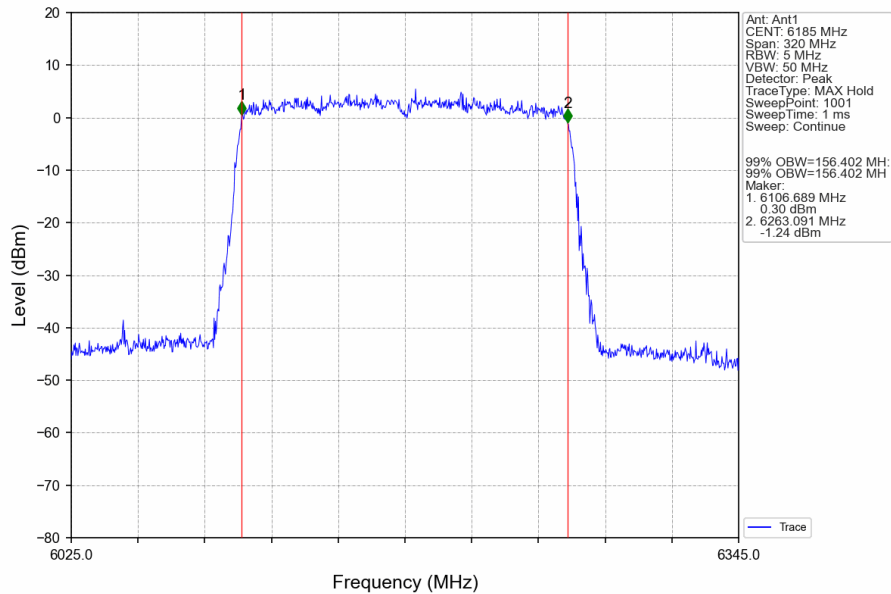
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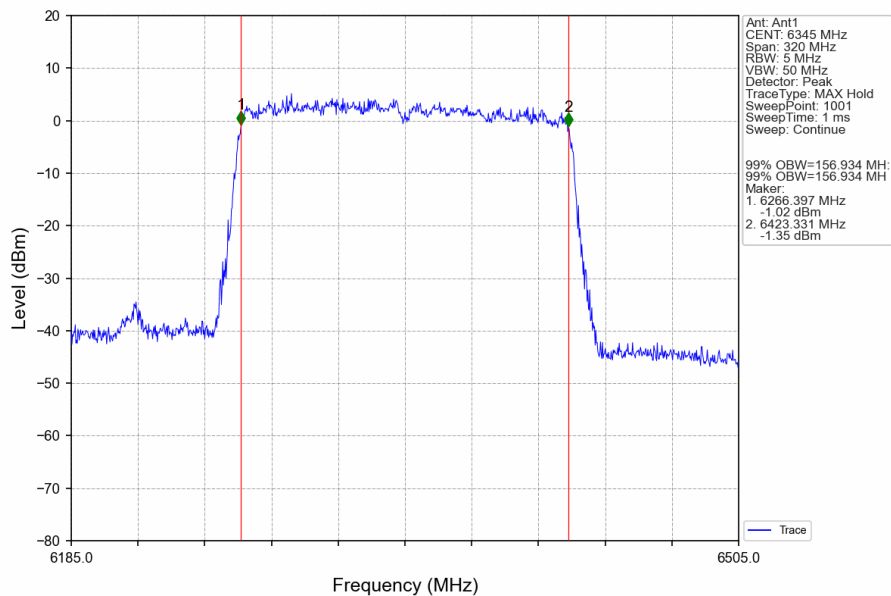
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802.11ax(HEW160)_MCH_6185MHz_2xRU996_Left_Ant1_NTNV



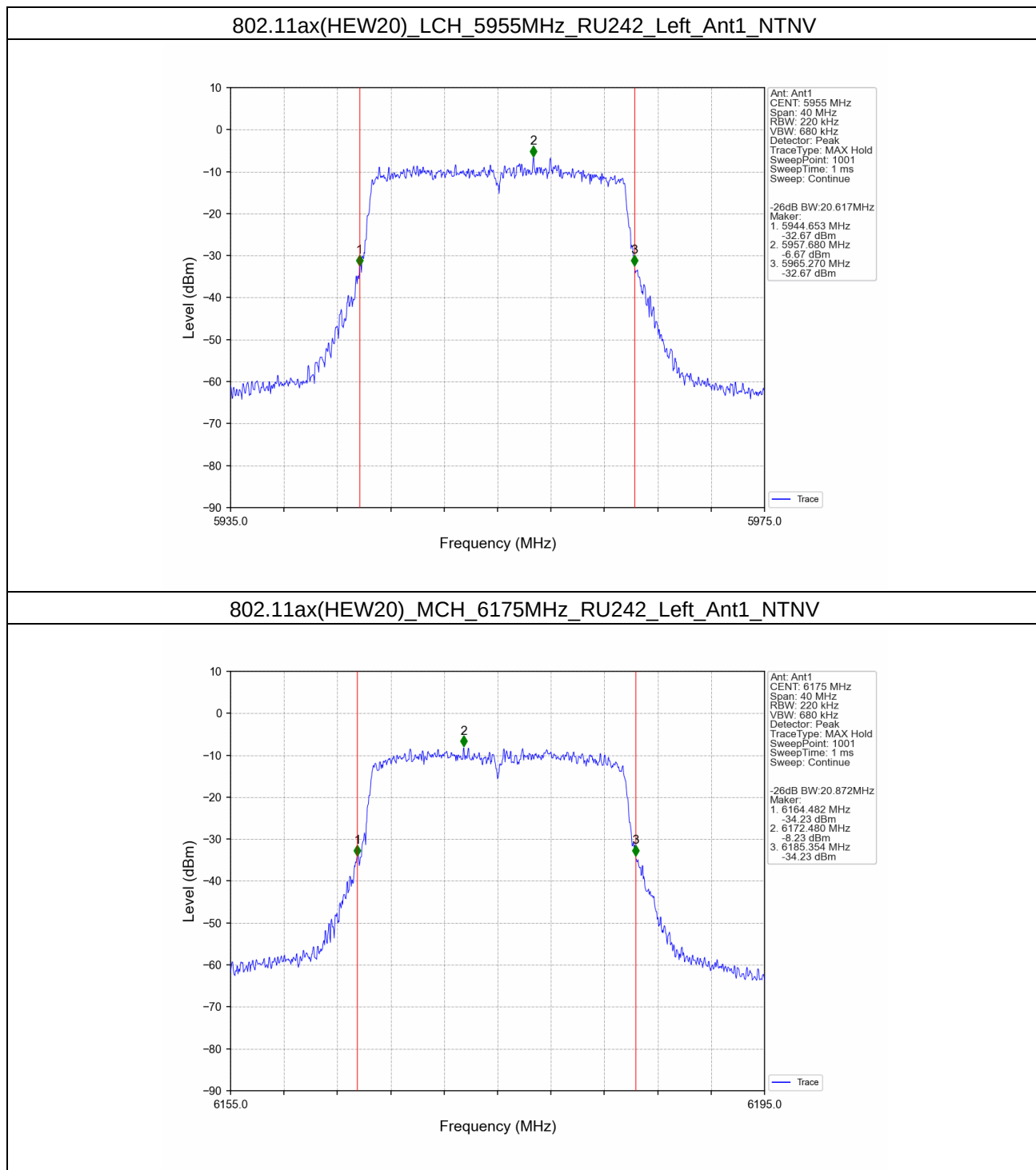
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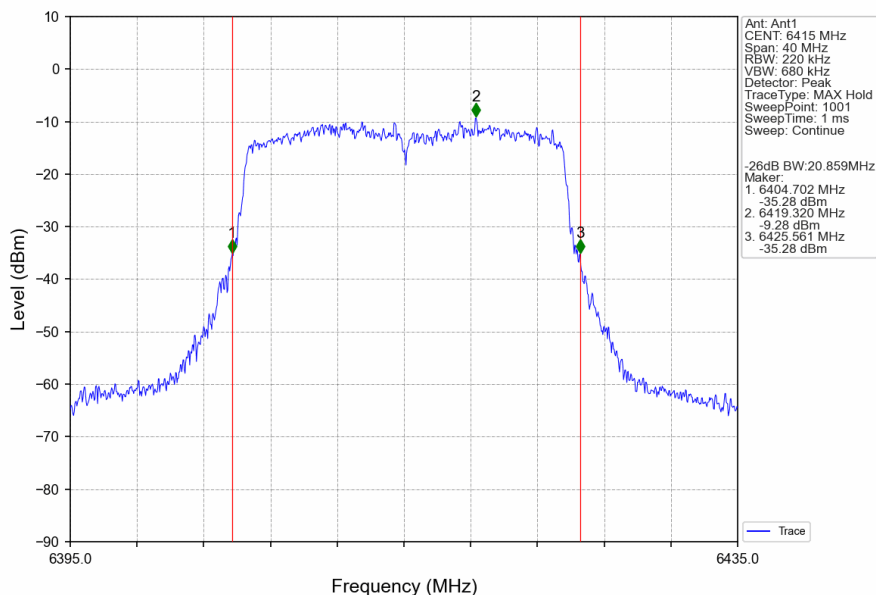
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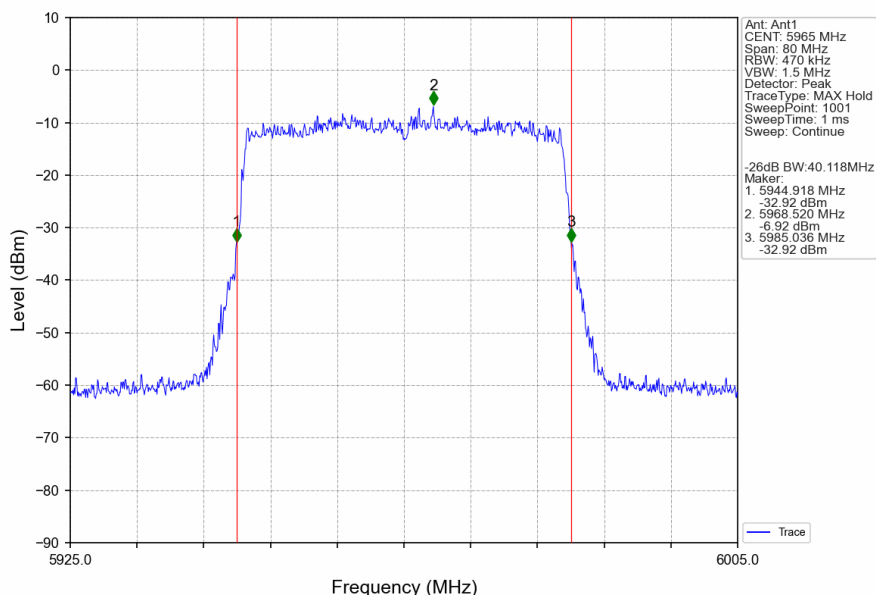
2.2.2 26dB BW



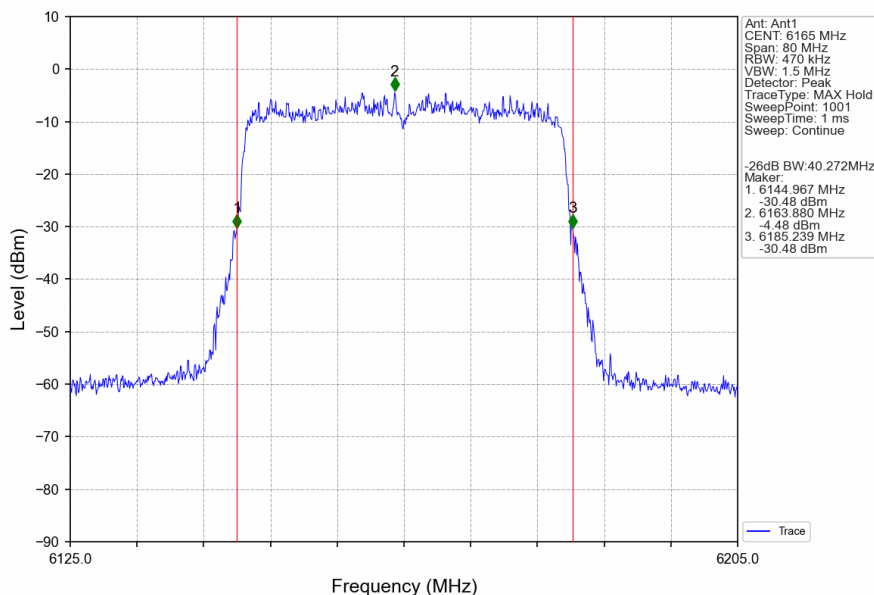
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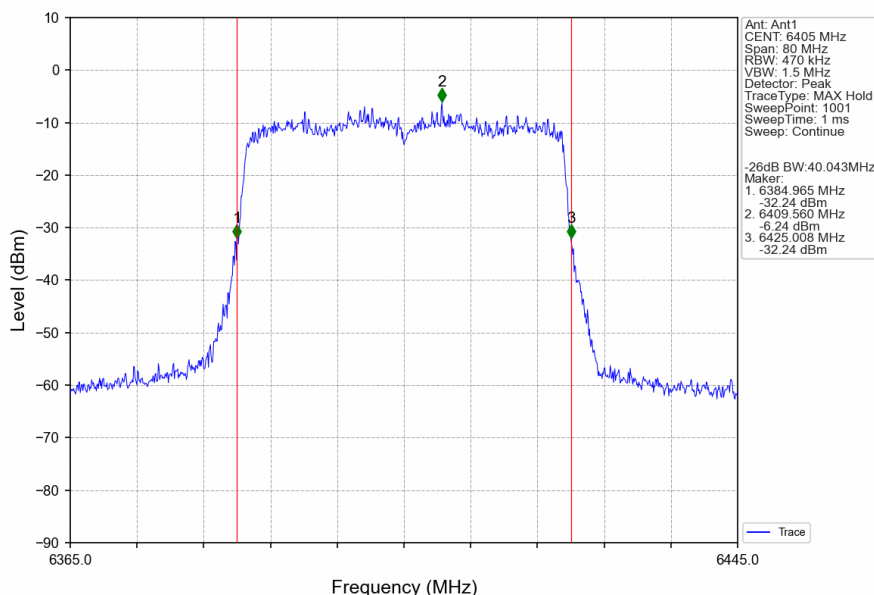
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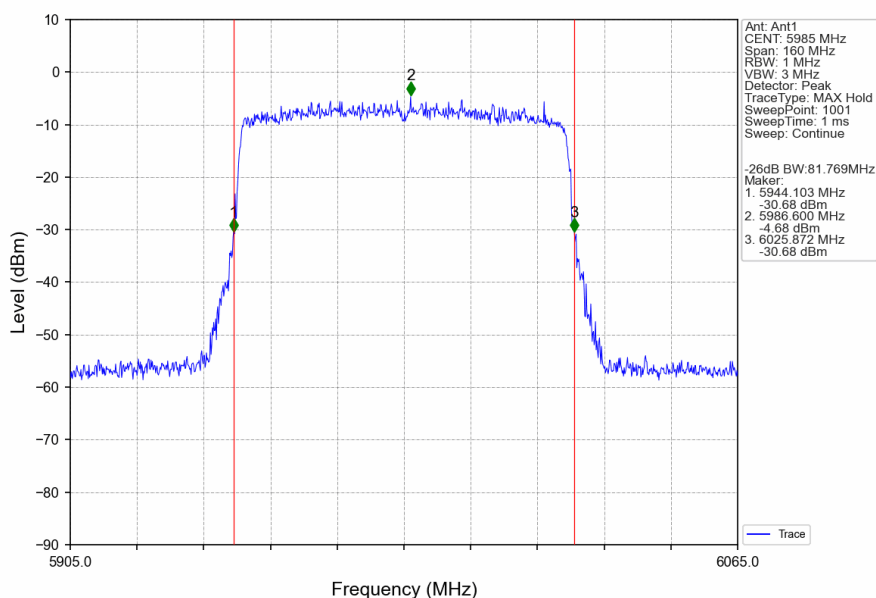
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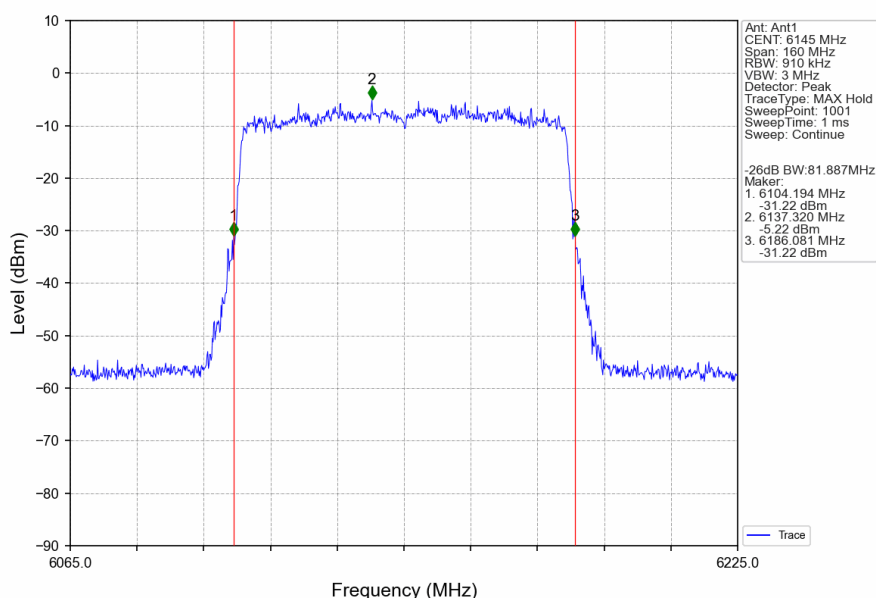
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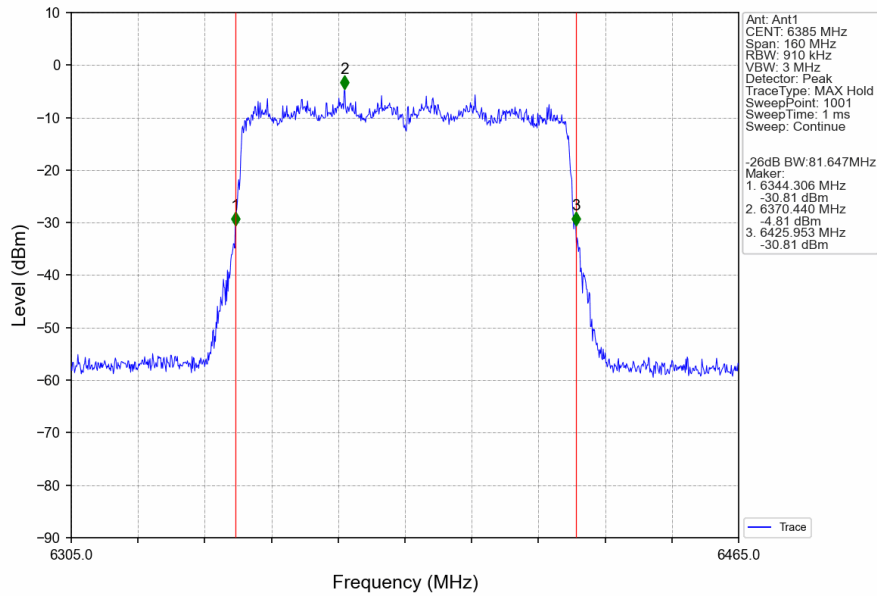
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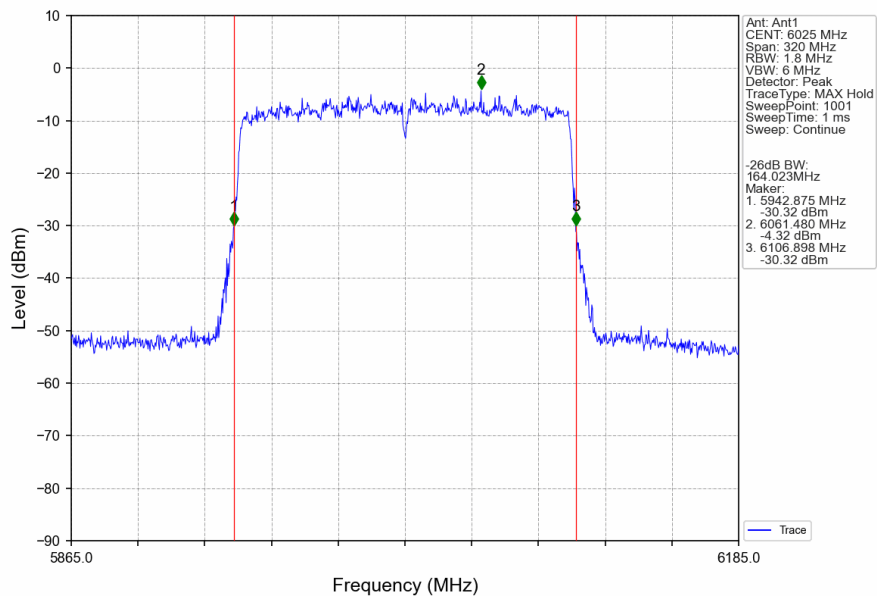
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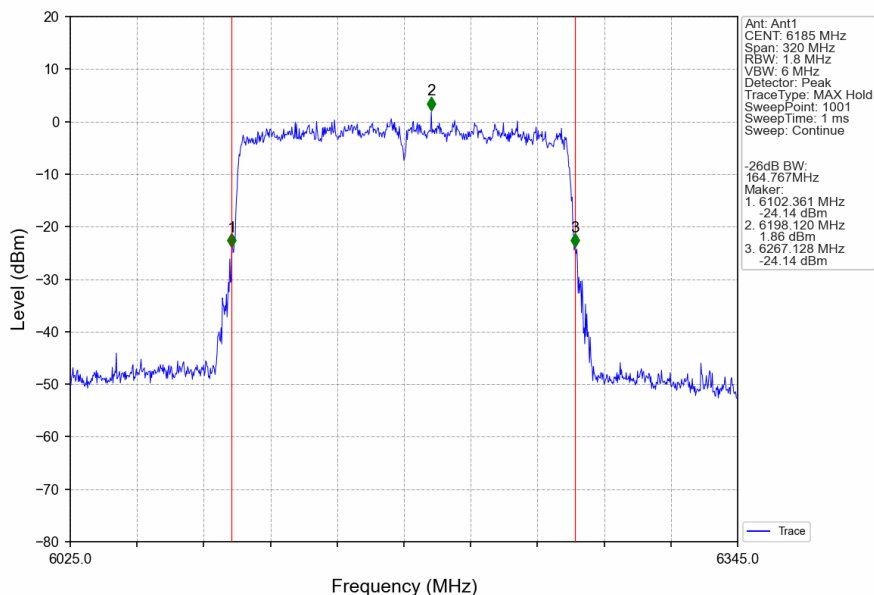
802.11ax(HEW80)_HCH_6385MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant1_NTNV



802.11ax(HEW160)_MCH_6185MHz_2xRU996_Left_Ant1_NTNV



802.11ax(HEW160)_HCH_6345MHz_2xRU996_Left_Ant1_NTNV

