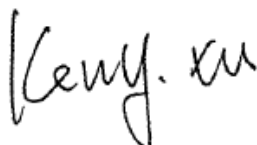


TEST REPORT

Application No.: SZCR2104020539AT
Applicant: UBTECH ROBOTICS CORP LTD
Address of Applicant: 16th and 22nd Floor, Block C1, Nanshan I Park, No.1001 Xueyuan Road, Nanshan District, Shenzhen City, China
Manufacturer: UBTECH ROBOTICS CORP LTD
Address of Manufacturer: 16th and 22ND Floor, block C1 Nanshan I Park, NO.1001 Xueyuan Road, Nanshan District, Shenzhen City, 518055, P.R.CHINA
Factory: UBTECH ROBOTICS CORP LTD BAOAN BRANCH
Address of Factory: 1-2Floor, Block B, Huilongda Industry Park, Shilongzai, Shiyan Street, Baoan District, Shenzhen City, P.R.CHINA
Equipment Under Test (EUT):
EUT Name: ADIBOT-A
Model No.: ADAA201
Trade Mark: UBTECH
FCC ID: 2AHJX-ADAA201
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2021-04-16
Date of Test: 2021-04-18 to 2021-06-05
Date of Issue: 2021-06-10

Test Result:	Pass*
---------------------	--------------

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



Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-06-10		Original

Authorized for issue by:				
		Leo Li		
		Leo Li/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
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart C 15.407 (c)	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 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 29V from adapter input AC 120V/60Hz Lithium Ion Battery: 25.6V 100Ah rechargeable battery which charged by adapter
Cable(s):	AC cable: 145cm unshielded DC cable: 90cm shielded
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-3: 5775MHz
Moudulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT1: 3dBi; ANT2: 3dBi
Directional gain:	6.01dBi
Remark:	1 Two Antennas can simultaneous transmit WIFI signal at 802.11n(HT20), 802.11n(HT40), 802.11ac(HT20), 802.11ac(HT40), 802.11ac(HT80) modes. 2 Directional gain = $GANT + 10 \cdot \log(NANT/NSS) = 3 + 10 \cdot \log(2/1) = 6.01dBi$.

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)	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (Above 1GHz)	$\pm 4.8\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 4.5\text{dB}$ (below 1GHz); $\pm 4.8\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$
Radiated Emissions (Below 1GHz)	$\pm 4.5\text{dB}$
<p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results</p> <ul style="list-style-type: none"> – 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. 	

4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **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



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Switch	WEINSCHL ENGINEERING	1506A	SEN009-01	N/A	N/A
Matching Pad	anzac	PT-75	SEN009-02	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

26dB Emission bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22



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Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Maximum Conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22



Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09



Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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 use an unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna for both ANT1 and ANT2 is 3dBi.

Antenna location: Refer to page 9 and page 10 of the internal photos and page 9 of the external photos.



6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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 & 15.407 b(6)
Test Method: ANSI C63.10 (2013) 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:

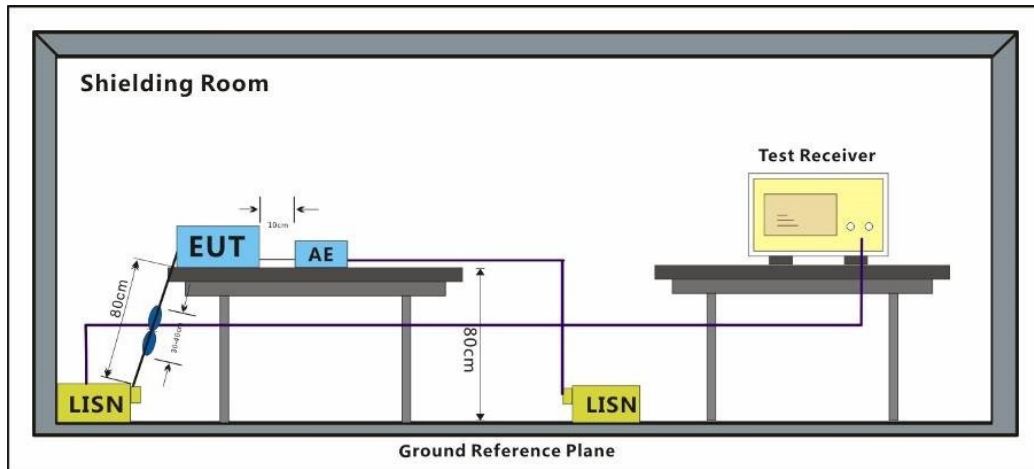
Temperature: 24.0 °C Humidity: 59.9 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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 $50\Omega/50\mu\text{H} + 50\Omega$ 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: LISN=Read Level+ Cable Loss+ LISN Factor



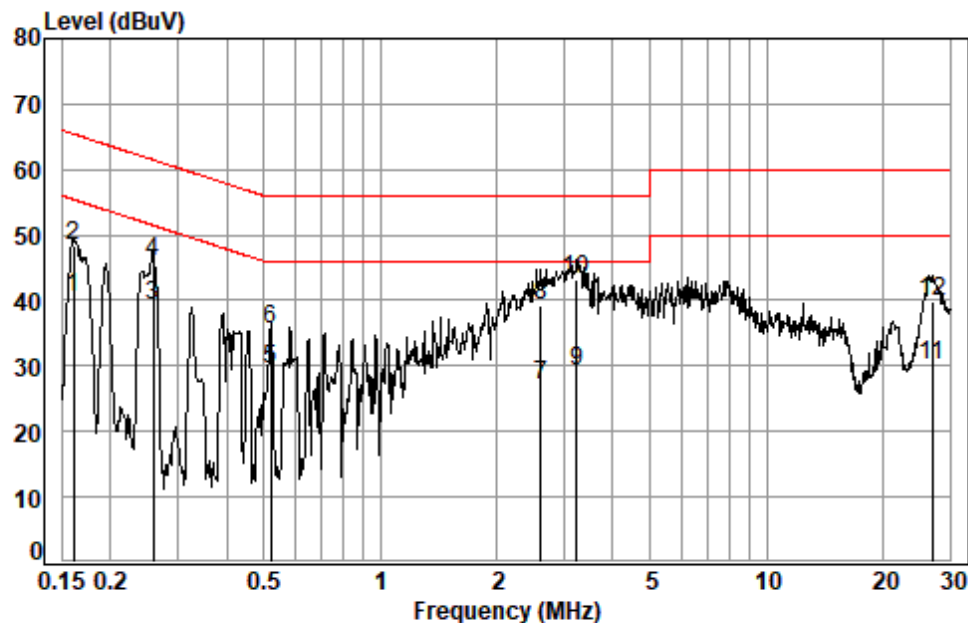
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Test Mode: 09; Line: Live line; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

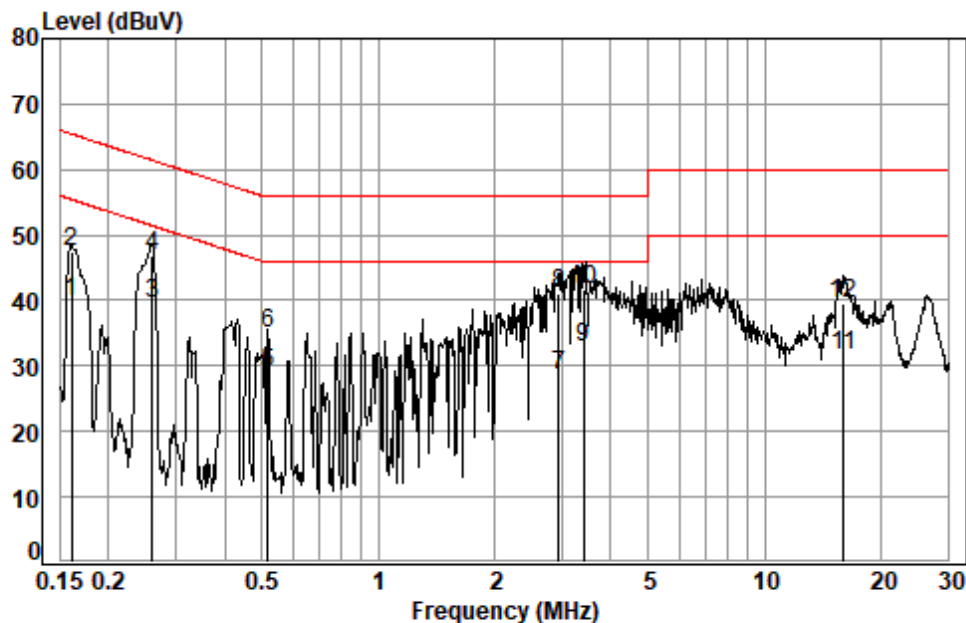


Site : Shielding Room
Condition: Line
Job No. : 20539AT
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Limit	Over	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1607	0.03	9.63	30.90	40.56	55.43	-14.87
2	0.1607	0.03	9.63	38.80	48.46	65.43	-16.97
3	0.2589	0.05	9.65	29.55	39.25	51.47	-12.22
4	0.2589	0.05	9.65	36.33	46.03	61.47	-15.44
5	0.5210	0.07	9.69	19.69	29.45	46.00	-16.55
6	0.5210	0.07	9.69	25.69	35.45	56.00	-20.55
7	2.6082	0.14	9.70	17.15	26.99	46.00	-19.01
8	2.6082	0.14	9.70	29.43	39.27	56.00	-16.73
9	3.2239	0.14	9.72	19.24	29.10	46.00	-16.90
10	3.2239	0.14	9.72	33.41	43.27	56.00	-12.73
11	26.8411	0.19	9.99	19.89	30.07	50.00	-19.93
12	26.8411	0.19	9.99	29.58	39.76	60.00	-20.24



Test Mode: 09; Line: Neutral Line; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : Shielding Room
Condition: Neutral
Job No. : 20539AT
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1607	0.03	9.63	30.16	39.82	55.43	-15.61	Average
2	0.1607	0.03	9.63	37.91	47.57	65.43	-17.86	QP
3	0.2603	0.05	9.65	29.85	39.55	51.42	-11.87	Average
4	0.2603	0.05	9.65	37.07	46.77	61.42	-14.65	QP
5	0.5182	0.07	9.67	19.08	28.82	46.00	-17.18	Average
6	0.5182	0.07	9.67	25.18	34.92	56.00	-21.08	QP
7	2.9307	0.14	9.70	18.73	28.57	46.00	-17.43	Average
8	2.9307	0.14	9.70	31.10	40.94	56.00	-15.06	QP
9	3.3994	0.15	9.71	22.89	32.75	46.00	-13.25	Average
10	3.3994	0.15	9.71	31.96	41.82	56.00	-14.18	QP
11	16.0546	0.16	9.99	21.37	31.52	50.00	-18.48	Average
12	16.0546	0.16	9.99	29.43	39.58	60.00	-20.42	QP



7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

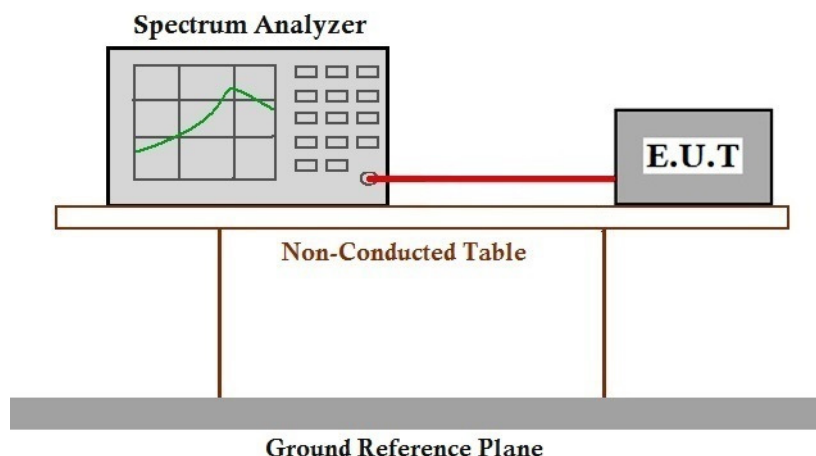
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 20.5 °C Humidity: 53.4 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

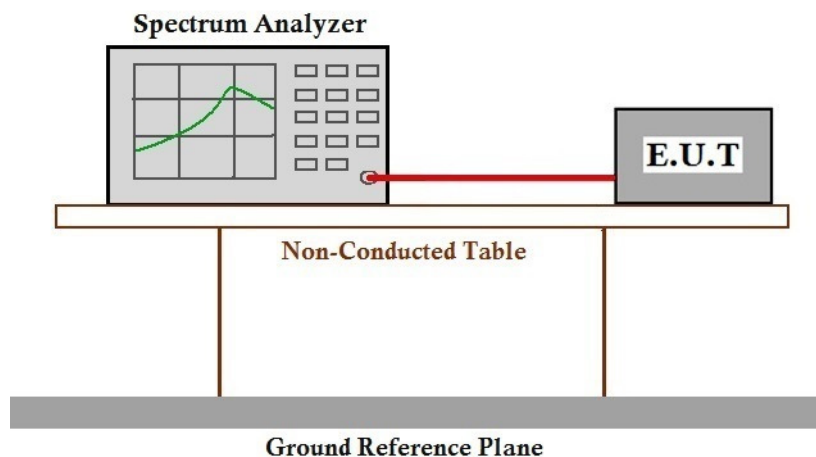
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 20.6 °C Humidity: 53.4 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)
Test Method: KDB 789033 D02 II C 1

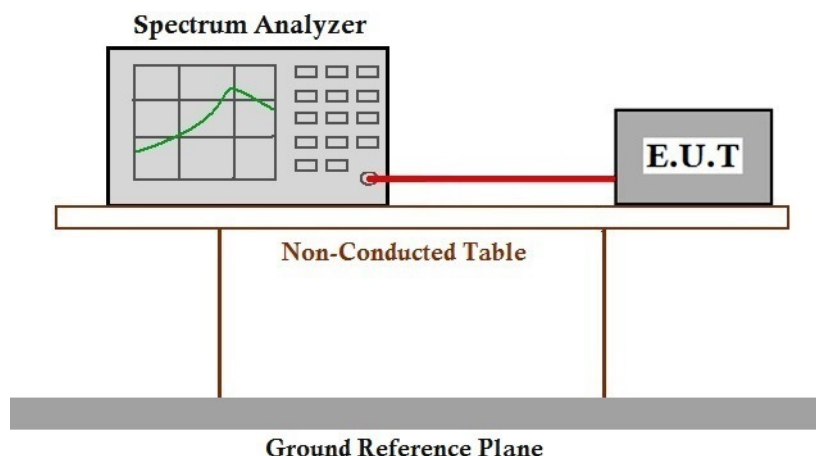
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 20.6 °C Humidity: 53.4 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

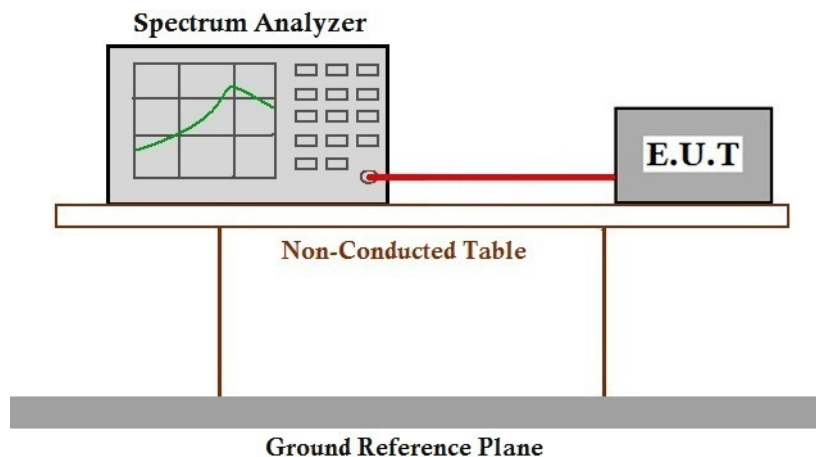
Humidity: 53.4 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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



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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

Humidity: 52.6 % RH

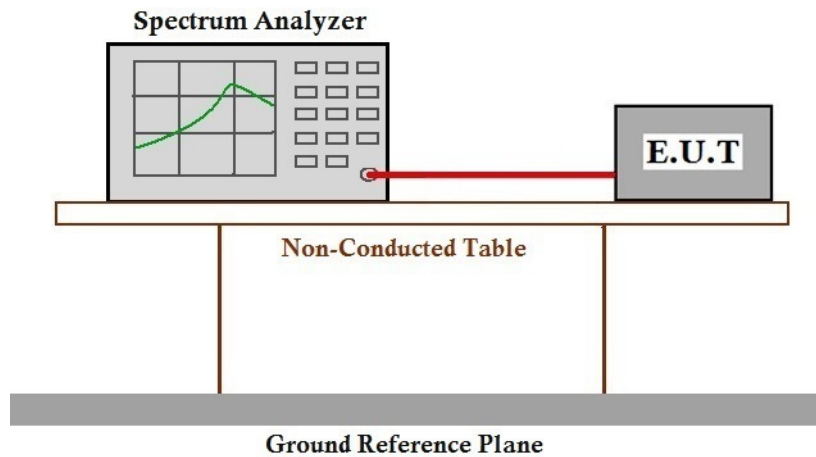
Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

Humidity: 52.3 % RH

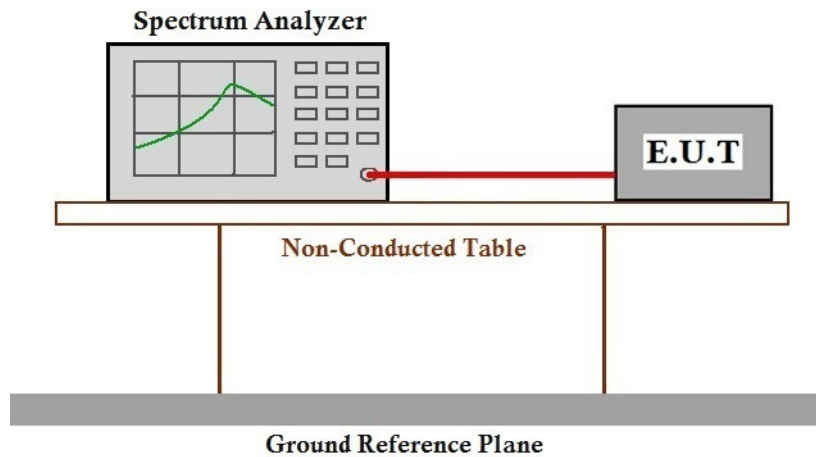
Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). 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 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.</p>		

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

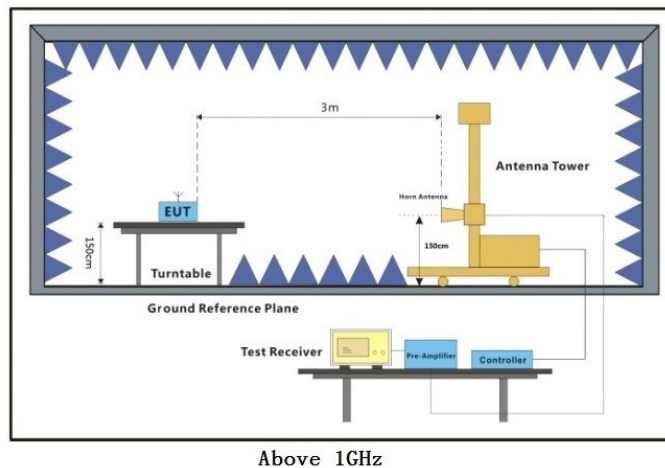
Humidity: 53.2 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

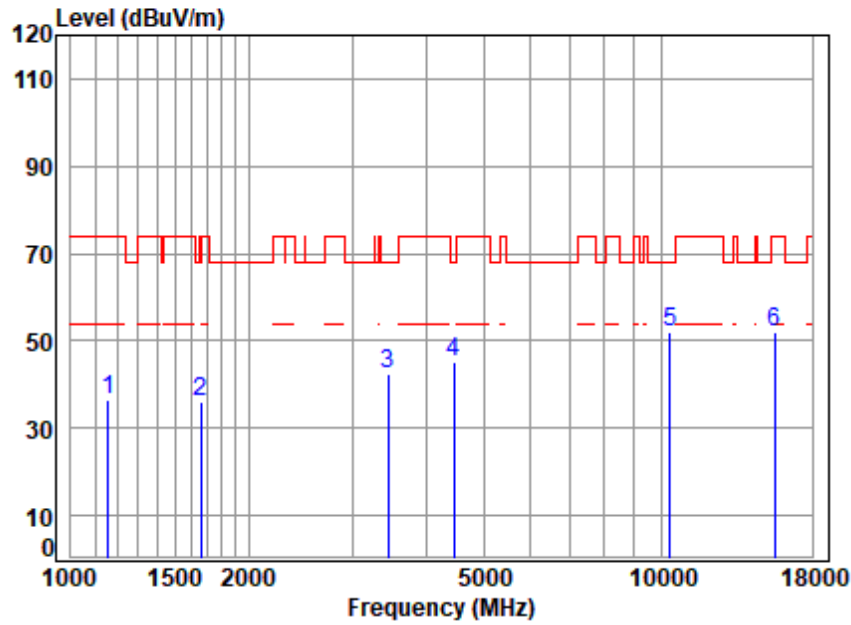
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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 above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

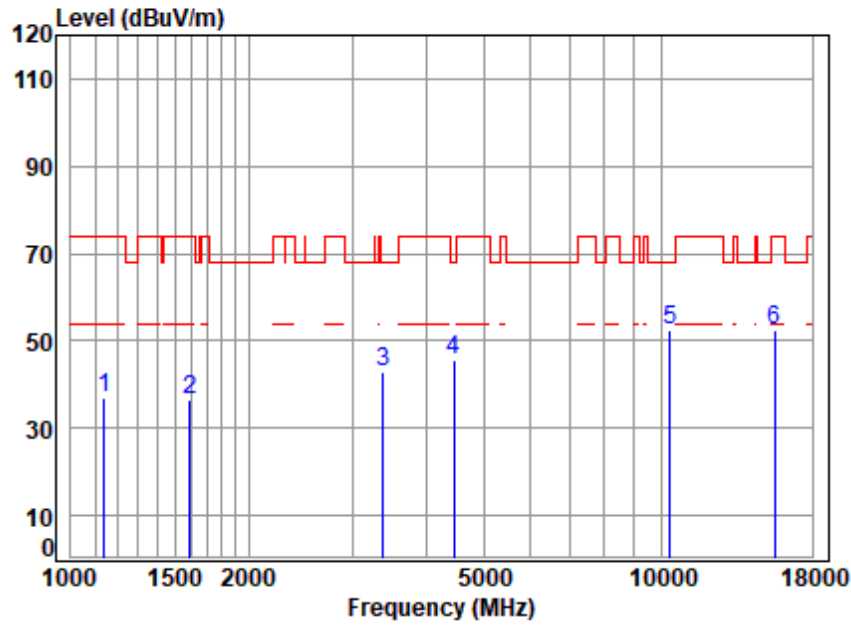


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		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	1158.828	2.69	25.00	39.73	48.51	36.47	74.00	-37.53	peak
2	1658.337	3.40	26.50	40.04	46.30	36.16	68.20	-32.04	peak
3	3445.535	5.45	31.57	41.04	46.49	42.47	68.20	-25.73	peak
4	4456.315	6.72	32.97	41.84	47.24	45.09	68.20	-23.11	peak
5	10360.000	10.57	37.43	37.29	41.16	51.87	68.20	-16.33	peak
6	15540.000	13.97	40.73	40.38	37.88	52.20	74.00	-21.80	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low

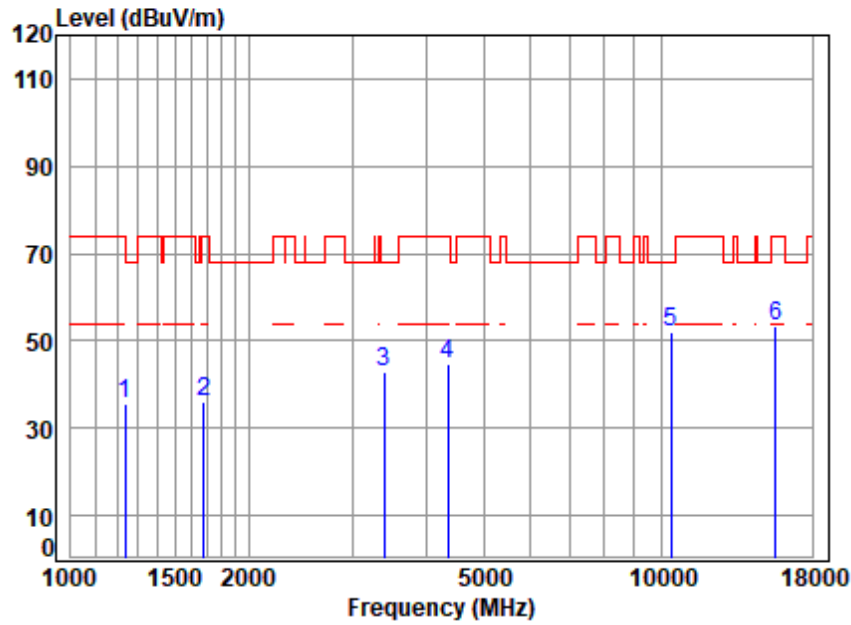


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		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	1138.904	2.65	24.95	39.71	49.22	37.11	74.00	-36.89	peak
2	1592.571	3.34	26.18	40.00	47.07	36.59	74.00	-37.41	peak
3	3386.297	5.38	31.42	40.99	47.16	42.97	68.20	-25.23	peak
4	4456.315	6.72	32.97	41.84	47.77	45.62	68.20	-22.58	peak
5	10360.000	10.57	37.43	37.29	41.95	52.66	68.20	-15.54	peak
6	15540.000	13.97	40.73	40.38	38.35	52.67	74.00	-21.33	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

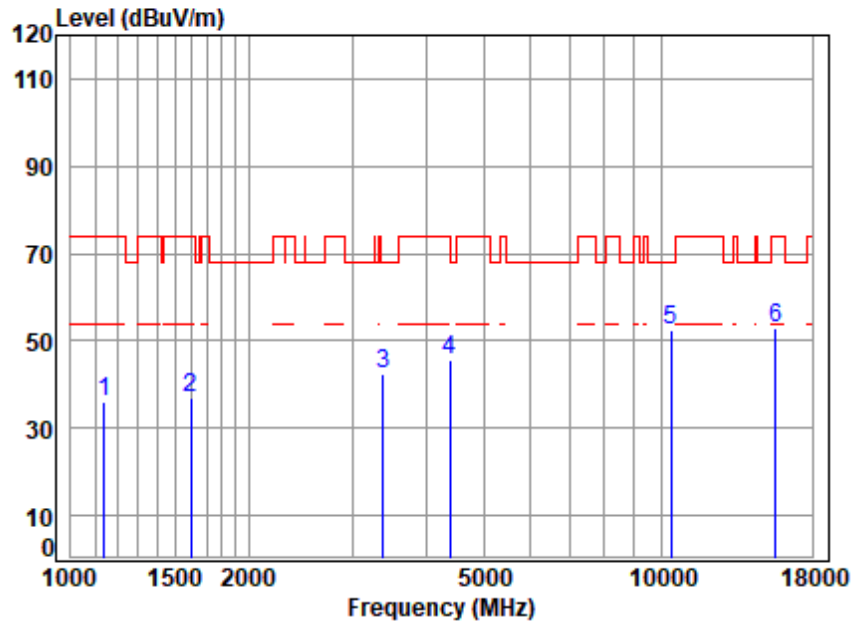


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5220 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	2.83	25.17	39.78	47.26	35.48	74.00	-38.52	peak
2	1677.621	3.41	26.59	40.05	46.02	35.97	74.00	-38.03	peak
3	3396.098	5.39	31.45	41.00	47.14	42.98	68.20	-25.22	peak
4	4354.454	6.63	32.89	41.74	47.14	44.92	74.00	-29.08	peak
5	10400.000	10.56	37.42	37.32	41.35	52.01	68.20	-16.19	peak
6	15600.000	13.99	40.78	40.41	38.88	53.24	74.00	-20.76	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

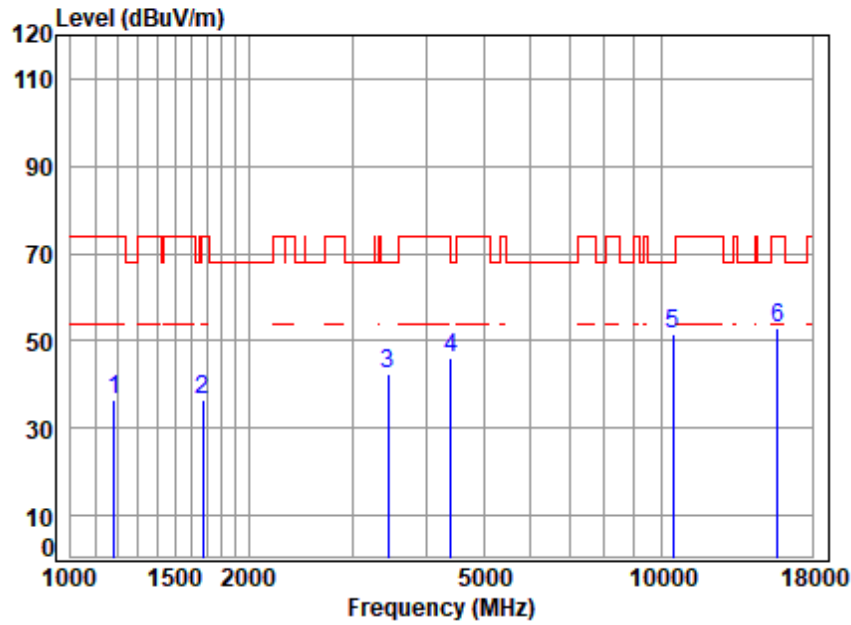


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5220 TX RSE
Note : 5G WIFI 11A

		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	1138.904	2.65	24.95	39.71	48.13	36.02	74.00	-37.98	peak
2	1597.181	3.35	26.20	40.01	47.29	36.83	74.00	-37.17	peak
3	3376.523	5.37	31.40	40.99	46.53	42.31	68.20	-25.89	peak
4	4392.376	6.66	32.92	41.78	47.83	45.63	74.00	-28.37	peak
5	10400.000	10.56	37.42	37.32	41.63	52.29	68.20	-15.91	peak
6	15600.000	13.99	40.78	40.41	38.38	52.74	74.00	-21.26	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High

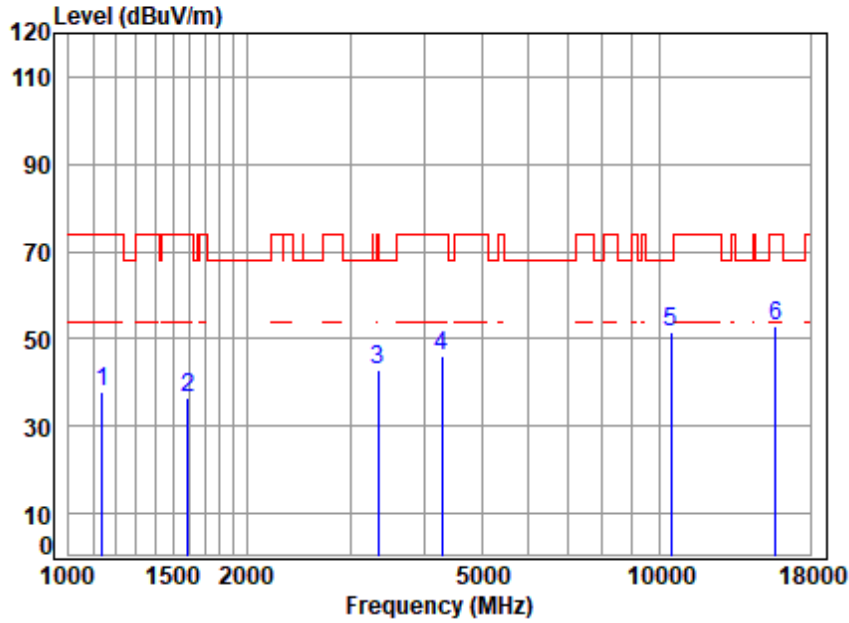


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	2.73	25.05	39.75	48.68	36.71	74.00	-37.29	peak
2	1672.779	3.41	26.57	40.05	46.38	36.31	74.00	-37.69	peak
3	3445.535	5.45	31.57	41.04	46.48	42.46	68.20	-25.74	peak
4	4405.090	6.67	32.93	41.79	48.31	46.12	68.20	-22.08	peak
5	10480.000	10.54	37.40	37.36	40.96	51.54	68.20	-16.66	peak
6	15720.000	14.04	40.88	40.47	38.68	53.13	74.00	-20.87	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

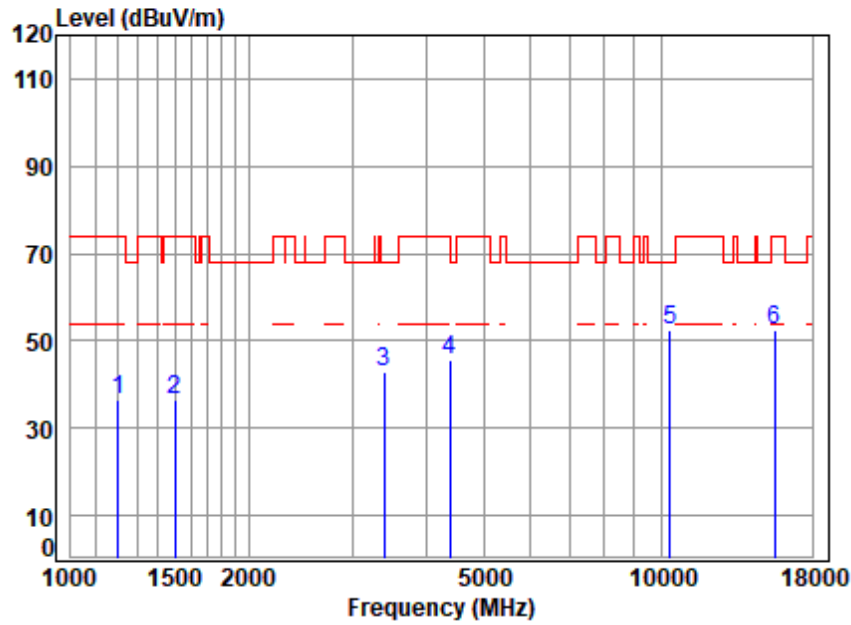


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		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	1138.904	2.65	24.95	39.71	49.89	37.78	74.00	-36.22	peak
2	1592.571	3.34	26.18	40.00	47.18	36.70	74.00	-37.30	peak
3	3337.710	5.32	31.30	40.96	47.14	42.80	74.00	-31.20	peak
4	4279.589	6.56	32.83	41.67	48.16	45.88	74.00	-28.12	peak
5	10480.000	10.54	37.40	37.36	40.86	51.44	68.20	-16.76	peak
6	15720.000	14.04	40.88	40.47	38.62	53.07	74.00	-20.93	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low

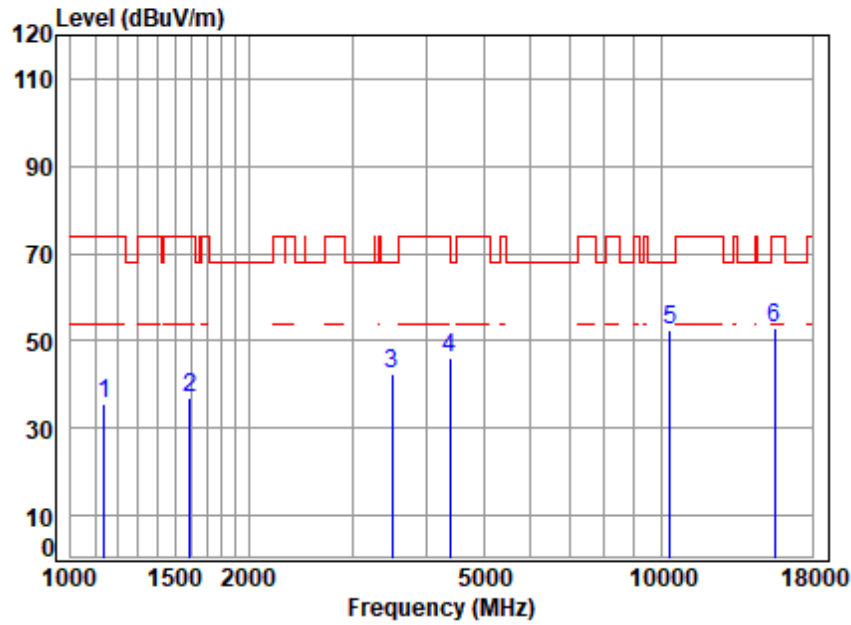


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	2.77	25.10	39.76	48.18	36.29	74.00	-37.71	peak
2	1498.781	3.26	25.70	39.95	47.45	36.46	74.00	-37.54	peak
3	3396.098	5.39	31.45	41.00	46.84	42.68	68.20	-25.52	peak
4	4379.699	6.65	32.91	41.77	47.65	45.44	74.00	-28.56	peak
5	10360.000	10.57	37.43	37.29	41.71	52.42	68.20	-15.78	peak
6	15540.000	13.97	40.73	40.38	38.28	52.60	74.00	-21.40	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

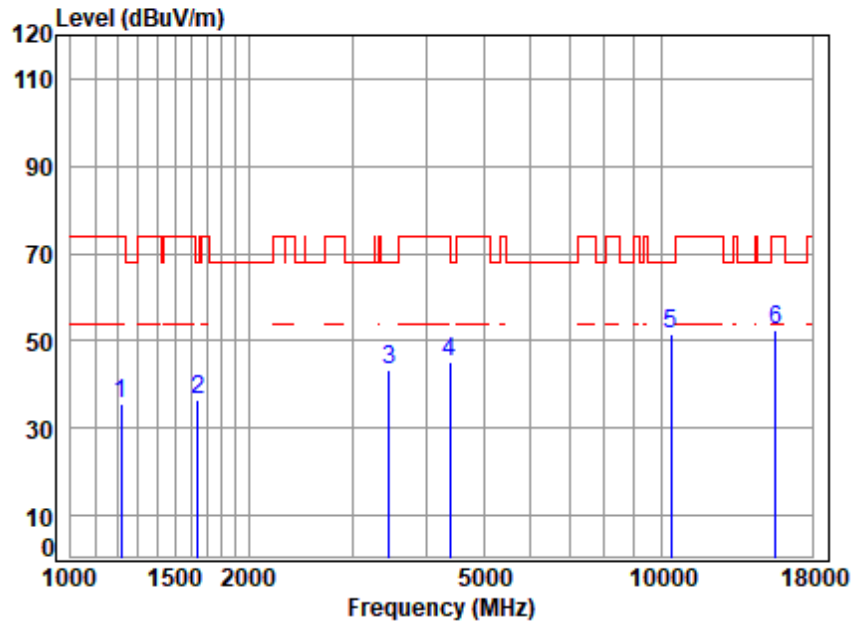
Mode : 5180 TX RSE

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	47.88	35.77	74.00	-38.23	peak
2	1592.571	3.34	26.18	40.00	47.43	36.95	74.00	-37.05	peak
3	3495.691	5.51	31.69	41.07	46.46	42.59	68.20	-25.61	peak
4	4392.376	6.66	32.92	41.78	48.51	46.31	74.00	-27.69	peak
5	10360.000	10.57	37.43	37.29	41.88	52.59	68.20	-15.61	peak
6	15540.000	13.97	40.73	40.38	38.45	52.77	74.00	-21.23	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle

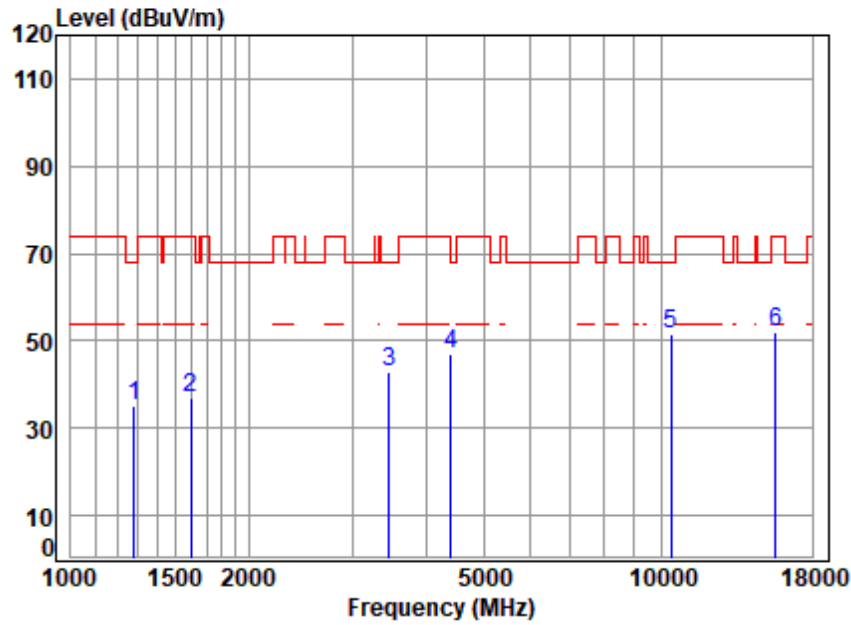


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5220 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	2.80	25.13	39.77	47.35	35.51	74.00	-38.49	peak
2	1639.274	3.38	26.41	40.03	46.58	36.34	68.20	-31.86	peak
3	3455.508	5.47	31.59	41.04	47.14	43.16	68.20	-25.04	peak
4	4379.699	6.65	32.91	41.77	47.46	45.25	74.00	-28.75	peak
5	10400.000	10.56	37.42	37.32	40.77	51.43	68.20	-16.77	peak
6	15600.000	13.99	40.78	40.41	38.29	52.65	74.00	-21.35	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

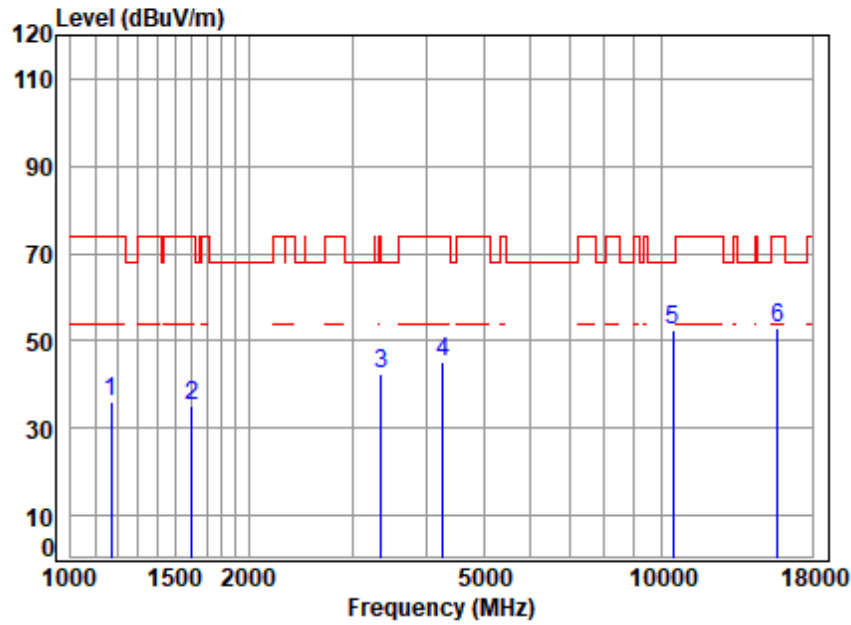
Mode : 5220 TX RSE

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	2.91	25.27	39.82	46.95	35.31	68.20	-32.89	peak
2	1597.181	3.35	26.20	40.01	47.30	36.84	74.00	-37.16	peak
3	3465.510	5.48	31.62	41.05	46.94	42.99	68.20	-25.21	peak
4	4405.090	6.67	32.93	41.79	49.01	46.82	68.20	-21.38	peak
5	10400.000	10.56	37.42	37.32	40.69	51.35	68.20	-16.85	peak
6	15600.000	13.99	40.78	40.41	37.84	52.20	74.00	-21.80	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

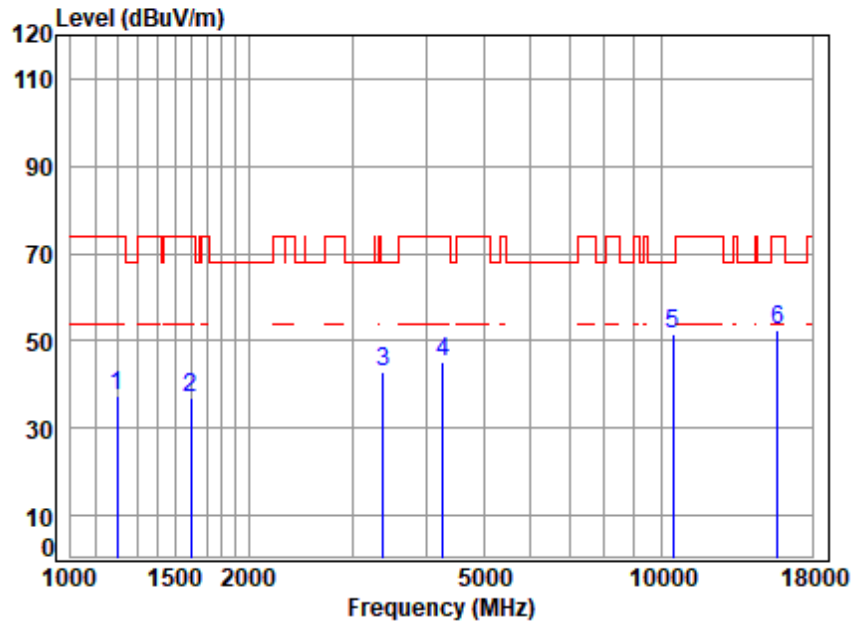


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1172.303	2.71	25.03	39.74	48.04	36.04	74.00	-37.96	peak
2	1601.804	3.35	26.22	40.01	45.52	35.08	74.00	-38.92	peak
3	3357.061	5.34	31.35	40.97	46.82	42.54	74.00	-31.46	peak
4	4267.237	6.54	32.82	41.66	47.59	45.29	74.00	-28.71	peak
5	10480.000	10.54	37.40	37.36	41.93	52.51	68.20	-15.69	peak
6	15720.000	14.04	40.88	40.47	38.51	52.96	74.00	-21.04	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

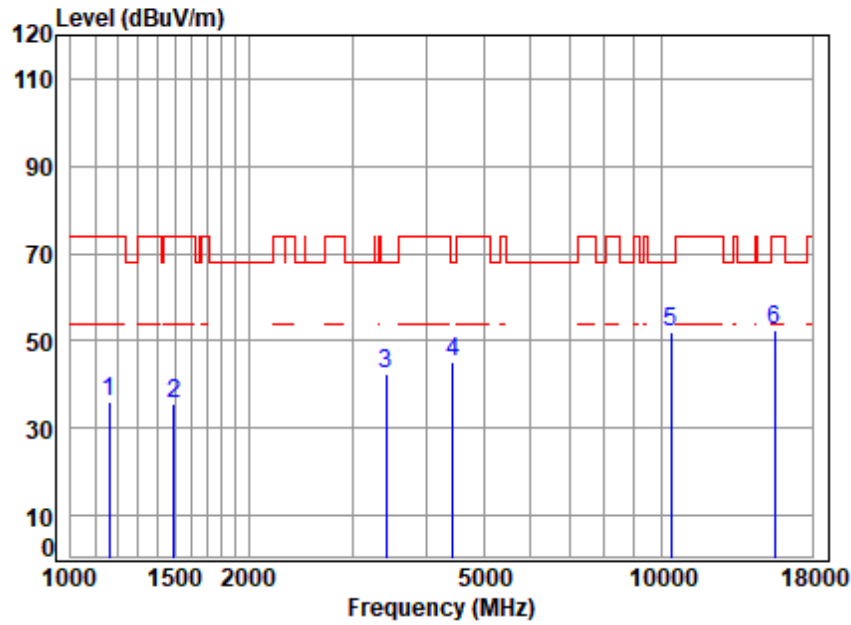


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1196.264	2.76	25.09	39.76	49.28	37.37	74.00 -36.63 peak
2	1597.181	3.35	26.20	40.01	47.37	36.91	74.00 -37.09 peak
3	3376.523	5.37	31.40	40.99	47.16	42.94	68.20 -25.26 peak
4	4267.237	6.54	32.82	41.66	47.55	45.25	74.00 -28.75 peak
5	10480.000	10.54	37.40	37.36	41.21	51.79	68.20 -16.41 peak
6	15720.000	14.04	40.88	40.47	38.07	52.52	74.00 -21.48 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

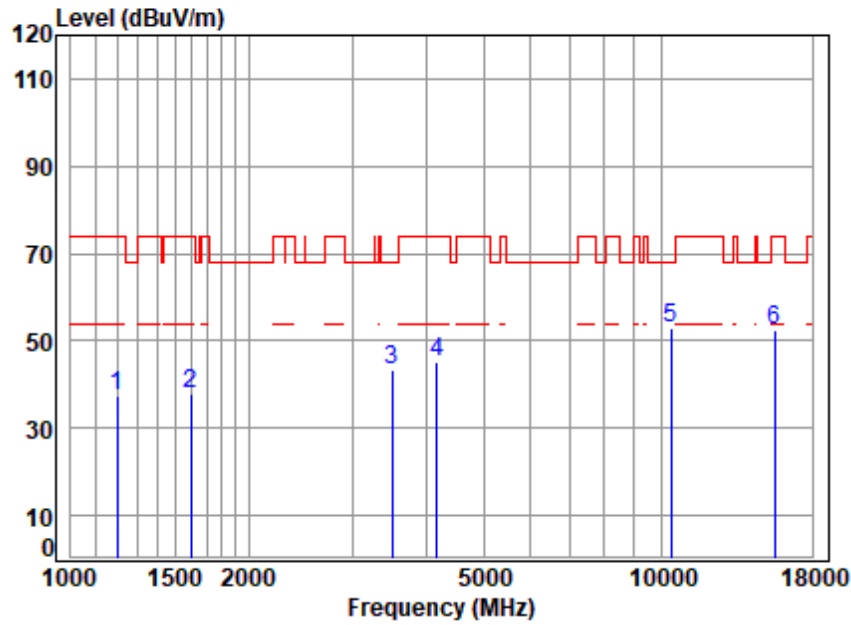


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5190 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	2.69	25.01	39.73	48.21	36.18	74.00	-37.82	peak
2	1494.455	3.25	25.69	39.95	46.66	35.65	74.00	-38.35	peak
3	3425.675	5.43	31.52	41.02	46.32	42.25	68.20	-25.95	peak
4	4443.453	6.71	32.96	41.82	47.45	45.30	68.20	-22.90	peak
5	10380.000	10.57	37.42	37.30	41.46	52.15	68.20	-16.05	peak
6	15570.000	13.98	40.76	40.40	37.98	52.32	74.00	-21.68	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

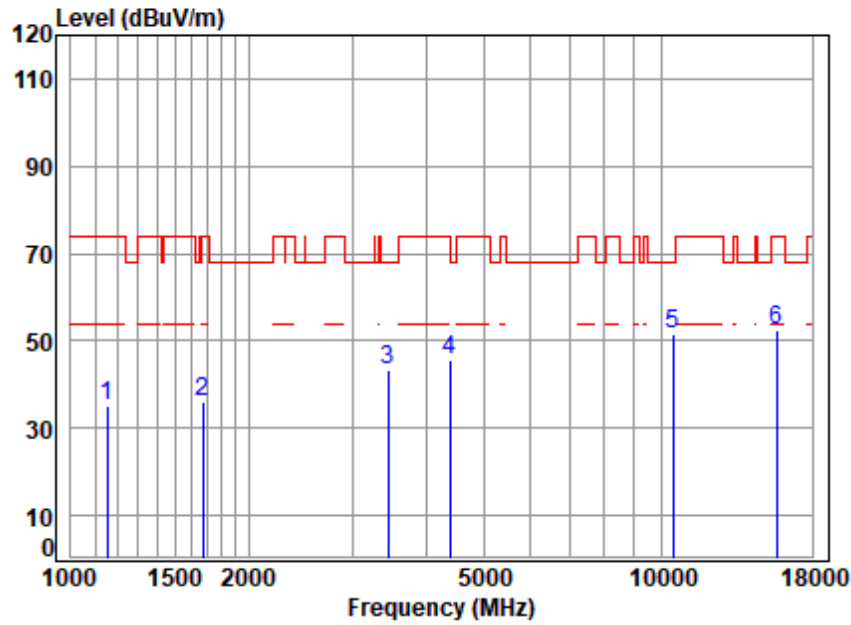
Mode : 5190 TX RSE

Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	2.76	25.09	39.76	49.40	37.49	74.00	-36.51	peak
2	1597.181	3.35	26.20	40.01	48.22	37.76	74.00	-36.24	peak
3	3495.691	5.51	31.69	41.07	47.32	43.45	68.20	-24.75	peak
4	4169.698	6.45	32.74	41.57	47.64	45.26	74.00	-28.74	peak
5	10380.000	10.57	37.42	37.30	42.22	52.91	68.20	-15.29	peak
6	15570.000	13.98	40.76	40.40	37.98	52.32	74.00	-21.68	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

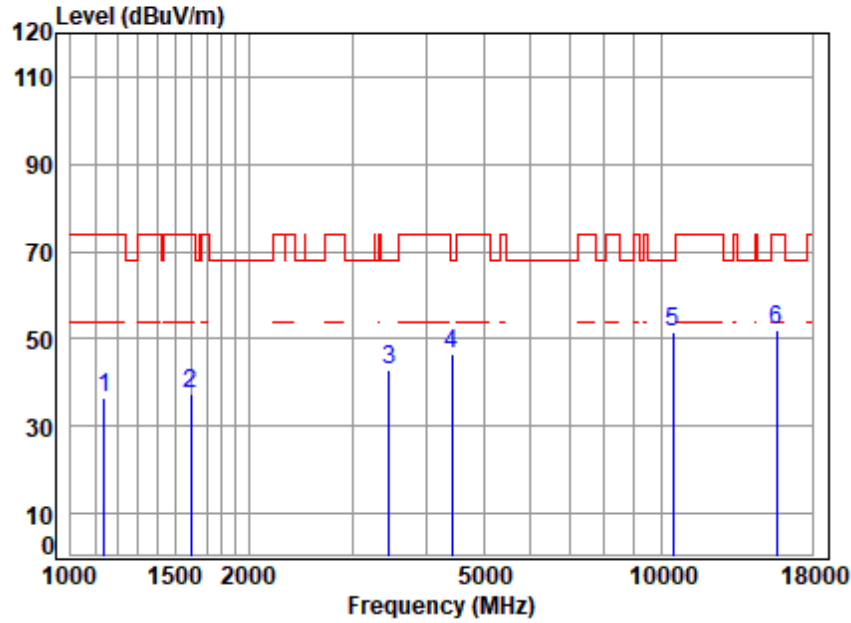


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5230 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.98	39.72	47.28	35.21	74.00	-38.79	peak
2	1672.779	3.41	26.57	40.05	46.11	36.04	74.00	-37.96	peak
3	3445.535	5.45	31.57	41.04	47.24	43.22	68.20	-24.98	peak
4	4379.699	6.65	32.91	41.77	47.84	45.63	74.00	-28.37	peak
5	10460.000	10.54	37.41	37.35	40.78	51.38	68.20	-16.82	peak
6	15690.000	14.03	40.85	40.45	37.86	52.29	74.00	-21.71	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

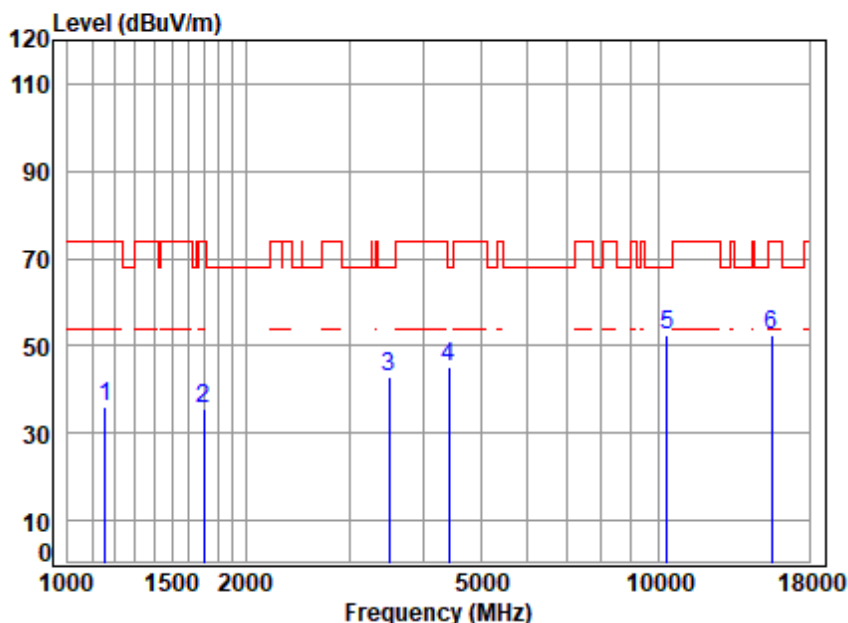
Mode : 5230 TX RSE

Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.66	36.55	74.00	-37.45	peak
2	1597.181	3.35	26.20	40.01	47.76	37.30	74.00	-36.70	peak
3	3465.510	5.48	31.62	41.05	47.01	43.06	68.20	-25.14	peak
4	4417.841	6.68	32.94	41.80	48.68	46.50	68.20	-21.70	peak
5	10460.000	10.54	37.41	37.35	41.13	51.73	68.20	-16.47	peak
6	15690.000	14.03	40.85	40.45	37.69	52.12	74.00	-21.88	peak



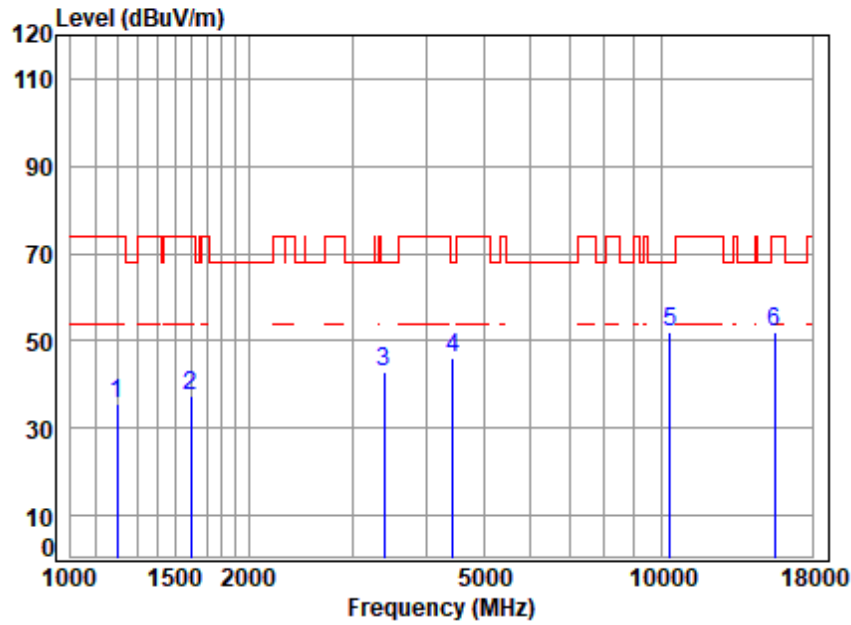
Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

		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	1158.828	2.69	25.00	39.73	47.96	35.92	74.00	-38.08	peak
2	1697.129	3.43	26.69	40.06	45.32	35.38	74.00	-38.62	peak
3	3495.691	5.51	31.69	41.07	46.77	42.90	68.20	-25.30	peak
4	4417.841	6.68	32.94	41.80	47.51	45.33	68.20	-22.87	peak
5	10360.000	10.57	37.43	37.29	41.73	52.44	68.20	-15.76	peak
6	15540.000	13.97	40.73	40.38	38.36	52.68	74.00	-21.32	peak

Test Mode: 09; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

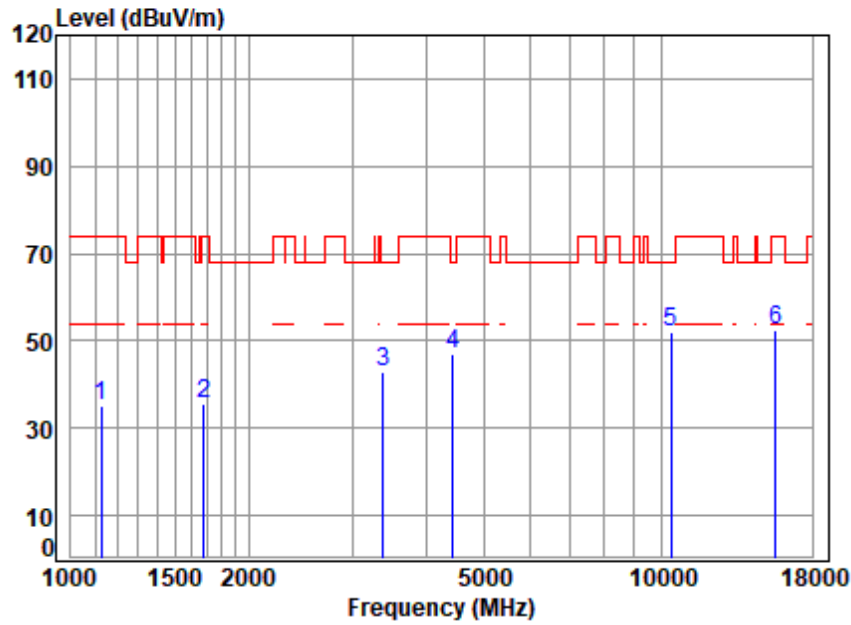


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

	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 1196.264	2.76	25.09	39.76	47.42	35.51	74.00	-38.49 peak
2 1597.181	3.35	26.20	40.01	47.76	37.30	74.00	-36.70 peak
3 3396.098	5.39	31.45	41.00	47.20	43.04	68.20	-25.16 peak
4 4443.453	6.71	32.96	41.82	48.09	45.94	68.20	-22.26 peak
5 10360.000	10.57	37.43	37.29	41.39	52.10	68.20	-16.10 peak
6 15540.000	13.97	40.73	40.38	37.86	52.18	74.00	-21.82 peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle

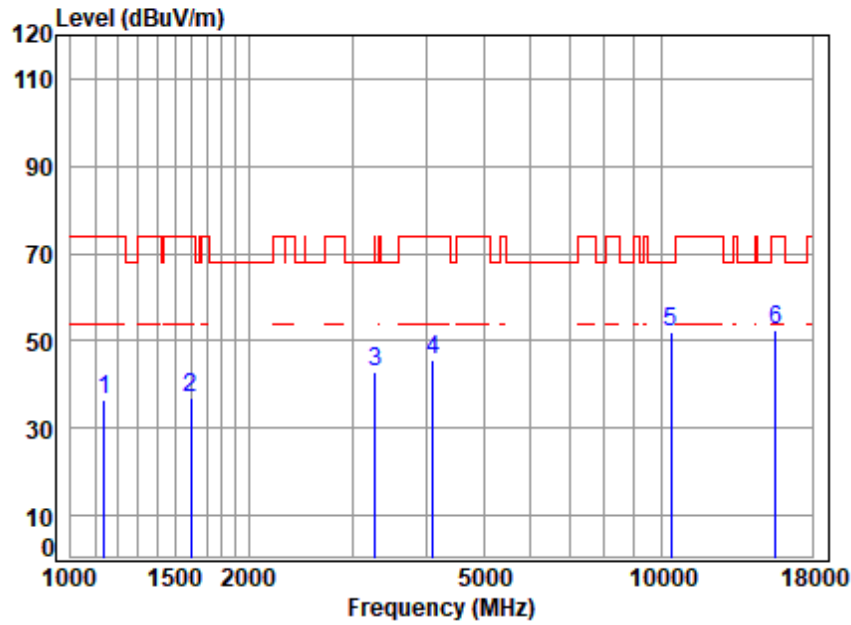


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20

		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	1125.813	2.62	24.92	39.70	47.25	35.09	74.00	-38.91	peak
2	1677.621	3.41	26.59	40.05	45.74	35.69	74.00	-38.31	peak
3	3386.297	5.38	31.42	40.99	46.87	42.68	68.20	-25.52	peak
4	4430.628	6.70	32.95	41.81	49.16	47.00	68.20	-21.20	peak
5	10400.000	10.56	37.42	37.32	41.56	52.22	68.20	-15.98	peak
6	15600.000	13.99	40.78	40.41	37.94	52.30	74.00	-21.70	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle

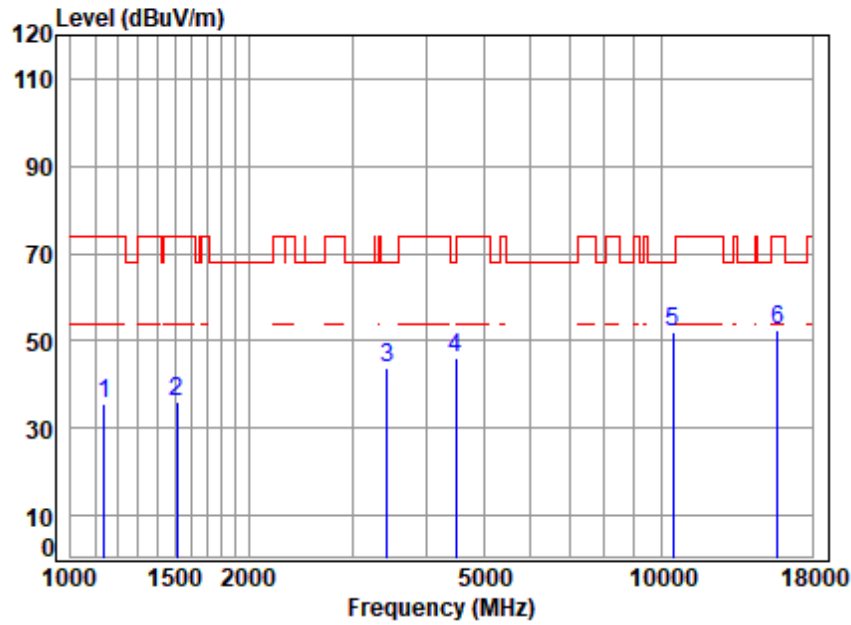


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20

		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	1138.904	2.65	24.95	39.71	48.61	36.50	74.00	-37.50	peak
2	1597.181	3.35	26.20	40.01	47.49	37.03	74.00	-36.97	peak
3	3270.858	5.23	31.13	40.91	47.22	42.67	68.20	-25.53	peak
4	4098.010	6.38	32.68	41.50	47.86	45.42	74.00	-28.58	peak
5	10400.000	10.56	37.42	37.32	41.13	51.79	68.20	-16.41	peak
6	15600.000	13.99	40.78	40.41	38.26	52.62	74.00	-21.38	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High

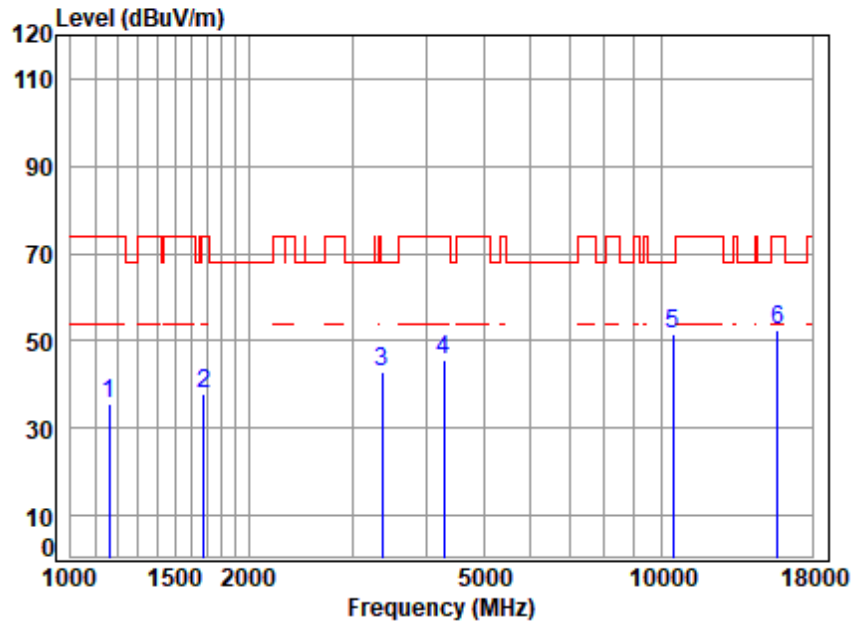


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	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 1138.904	2.65	24.95	39.71	47.90	35.79	74.00	-38.21 peak
2 1511.833	3.27	25.76	39.96	47.01	36.08	74.00	-37.92 peak
3 3435.590	5.44	31.54	41.03	47.78	43.73	68.20	-24.47 peak
4 4482.150	6.74	32.99	41.86	48.20	46.07	68.20	-22.13 peak
5 10480.000	10.54	37.40	37.36	41.28	51.86	68.20	-16.34 peak
6 15720.000	14.04	40.88	40.47	37.82	52.27	74.00	-21.73 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

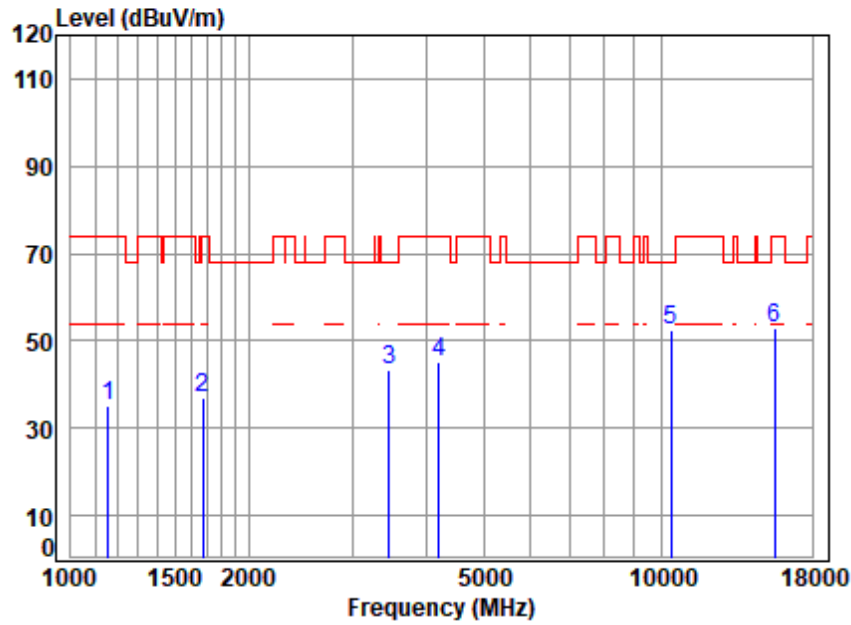


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	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 1162.182	2.69	25.01	39.73	47.43	35.40	74.00	-38.60 peak
2 1677.621	3.41	26.59	40.05	47.80	37.75	74.00	-36.25 peak
3 3366.778	5.35	31.37	40.98	47.31	43.05	68.20	-25.15 peak
4 4291.977	6.57	32.84	41.68	47.79	45.52	74.00	-28.48 peak
5 10480.000	10.54	37.40	37.36	41.10	51.68	68.20	-16.52 peak
6 15720.000	14.04	40.88	40.47	38.07	52.52	74.00	-21.48 peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

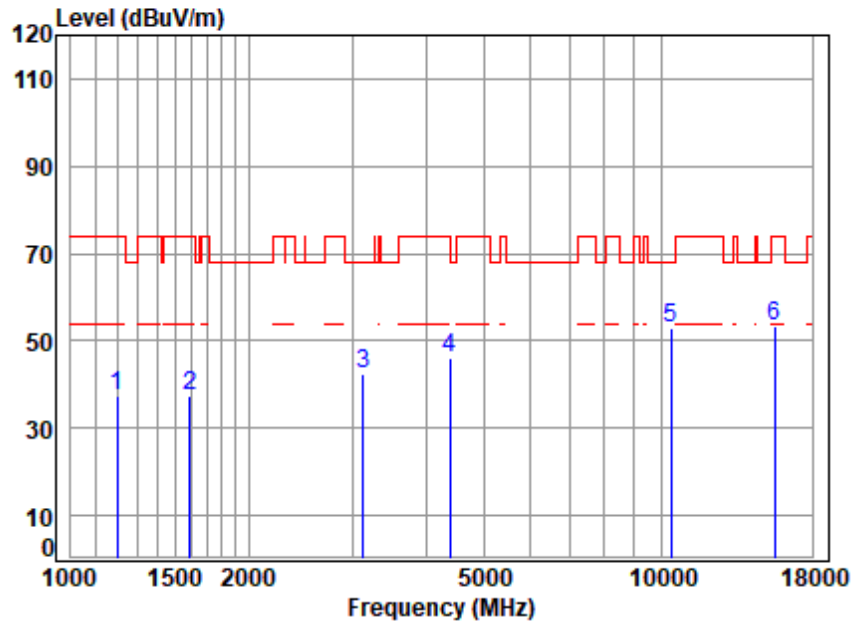


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

		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	1155.483	2.68	24.99	39.73	47.25	35.19	74.00	-38.81	peak
2	1672.779	3.41	26.57	40.05	46.84	36.77	74.00	-37.23	peak
3	3465.510	5.48	31.62	41.05	47.08	43.13	68.20	-25.07	peak
4	4193.872	6.47	32.76	41.59	47.36	45.00	74.00	-29.00	peak
5	10380.000	10.57	37.42	37.30	41.55	52.24	68.20	-15.96	peak
6	15570.000	13.98	40.76	40.40	38.56	52.90	74.00	-21.10	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

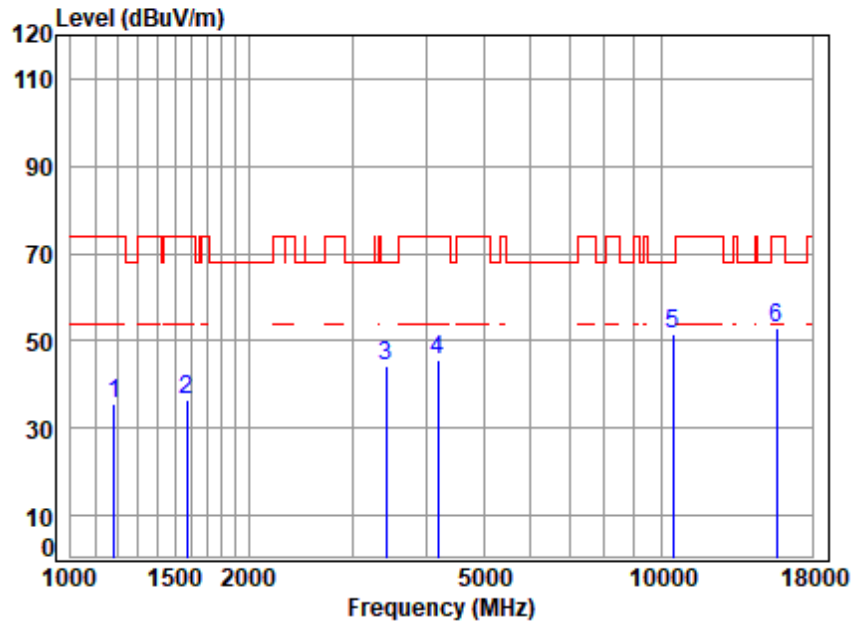


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

		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	1199.726	2.76	25.09	39.76	49.17	37.26	74.00	-36.74	peak
2	1592.571	3.34	26.18	40.00	47.95	37.47	74.00	-36.53	peak
3	3132.079	5.04	30.76	40.80	47.46	42.46	68.20	-25.74	peak
4	4392.376	6.66	32.92	41.78	48.33	46.13	74.00	-27.87	peak
5	10380.000	10.57	37.42	37.30	42.33	53.02	68.20	-15.18	peak
6	15570.000	13.98	40.76	40.40	38.83	53.17	74.00	-20.83	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High

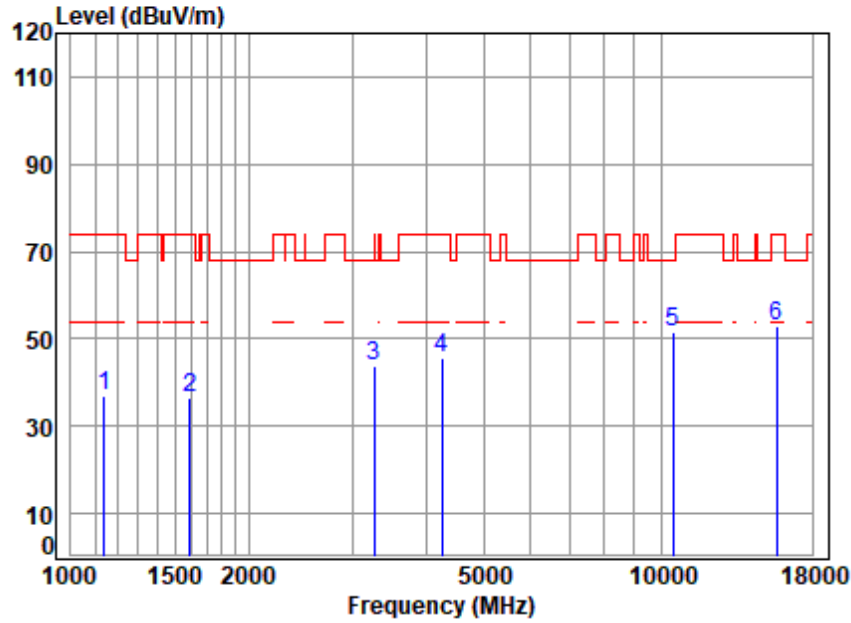


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	2.73	25.05	39.75	47.70	35.73	74.00	-38.27	peak
2	1574.265	3.33	26.09	39.99	46.95	36.38	74.00	-37.62	peak
3	3425.675	5.43	31.52	41.02	48.16	44.09	68.20	-24.11	peak
4	4181.768	6.46	32.75	41.58	47.79	45.42	74.00	-28.58	peak
5	10460.000	10.54	37.41	37.35	41.03	51.63	68.20	-16.57	peak
6	15690.000	14.03	40.85	40.45	38.47	52.90	74.00	-21.10	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

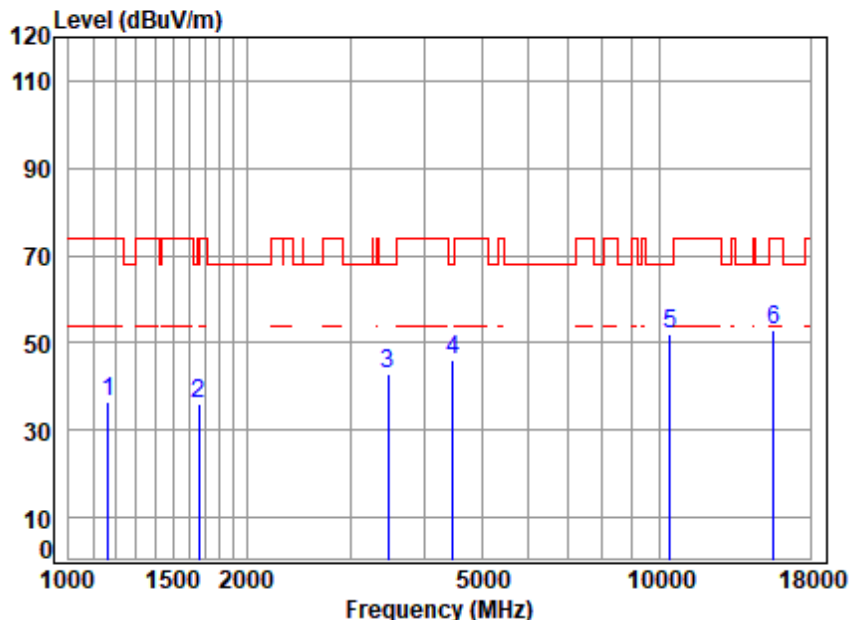


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

		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	1138.904	2.65	24.95	39.71	48.89	36.78	74.00	-37.22	peak
2	1592.571	3.34	26.18	40.00	46.87	36.39	74.00	-37.61	peak
3	3261.418	5.22	31.10	40.90	48.41	43.83	74.00	-30.17	peak
4	4254.921	6.53	32.81	41.65	47.79	45.48	74.00	-28.52	peak
5	10460.000	10.54	37.41	37.35	40.81	51.41	68.20	-16.79	peak
6	15690.000	14.03	40.85	40.45	38.36	52.79	74.00	-21.21	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

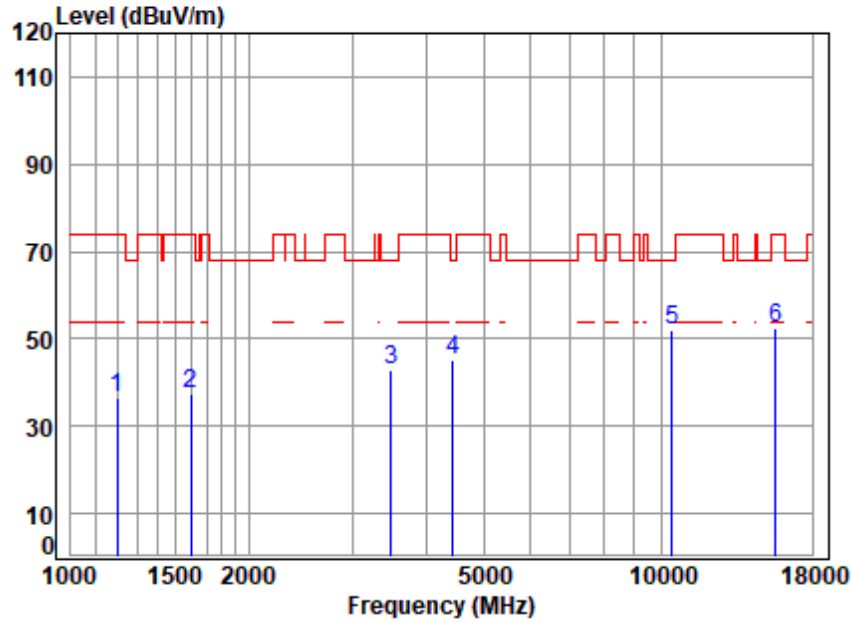


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	2.70	25.02	39.73	48.63	36.62	74.00	-37.38	peak
2	1663.137	3.40	26.53	40.04	46.03	35.92	74.00	-38.08	peak
3	3475.541	5.49	31.64	41.06	46.81	42.88	68.20	-25.32	peak
4	4469.214	6.73	32.98	41.85	48.00	45.86	68.20	-22.34	peak
5	10420.000	10.56	37.42	37.33	41.21	51.86	68.20	-16.34	peak
6	15630.000	14.01	40.81	40.42	38.35	52.75	74.00	-21.25	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

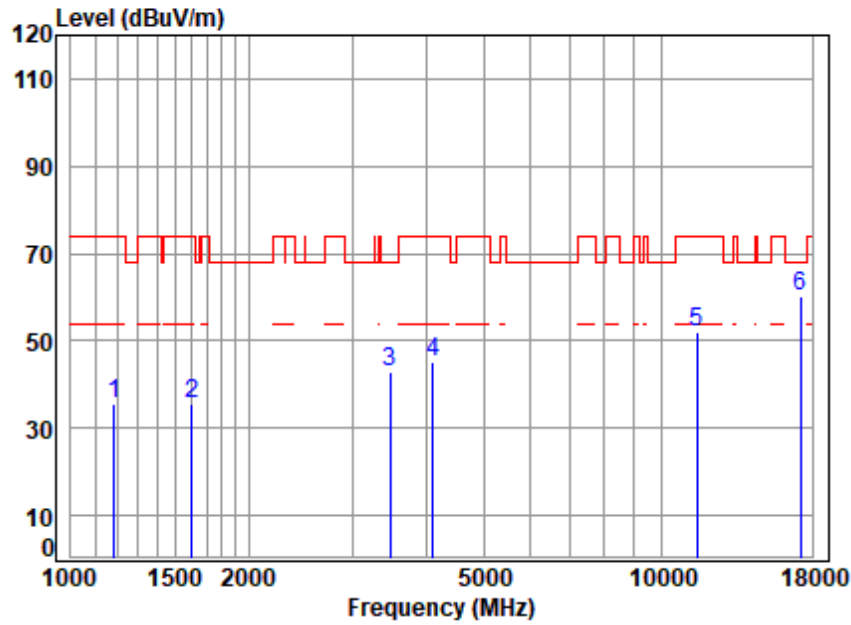


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

	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 1199.726	2.76	25.09	39.76	48.42	36.51	74.00	-37.49 peak
2 1597.181	3.35	26.20	40.01	47.98	37.52	74.00	-36.48 peak
3 3485.601	5.50	31.67	41.07	46.71	42.81	68.20	-25.39 peak
4 4443.453	6.71	32.96	41.82	47.30	45.15	68.20	-23.05 peak
5 10420.000	10.56	37.42	37.33	41.49	52.14	68.20	-16.06 peak
6 15630.000	14.01	40.81	40.42	37.97	52.37	74.00	-21.63 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

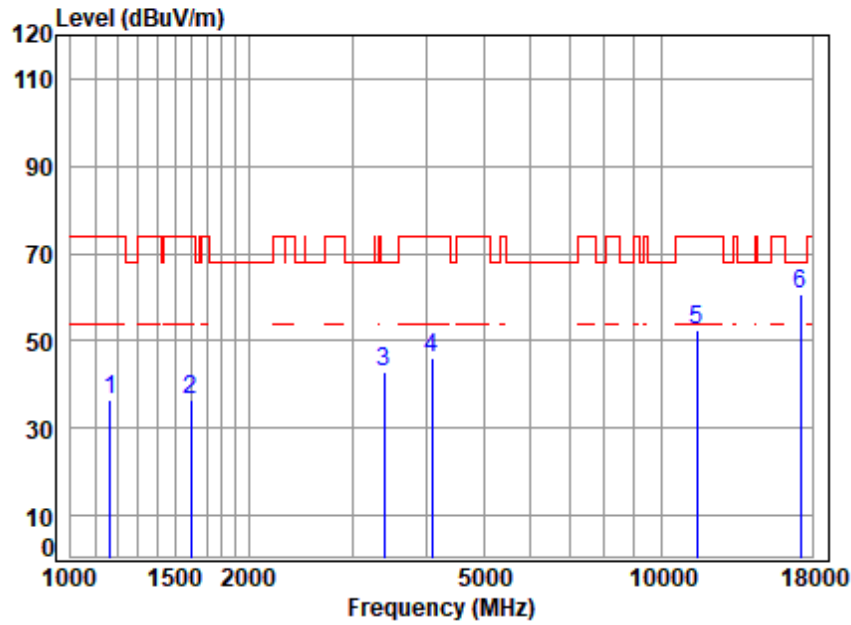


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	2.73	25.05	39.75	47.73	35.76	74.00	-38.24	peak
2	1601.804	3.35	26.22	40.01	45.92	35.48	74.00	-38.52	peak
3	3475.541	5.49	31.64	41.06	46.83	42.90	68.20	-25.30	peak
4	4109.872	6.39	32.69	41.51	47.68	45.25	74.00	-28.75	peak
5	11490.000	11.62	38.10	37.86	40.33	52.19	74.00	-21.81	peak
6	17235.000	14.09	42.64	40.28	44.00	60.45	68.20	-7.75	peak



Test Mode: 10; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low

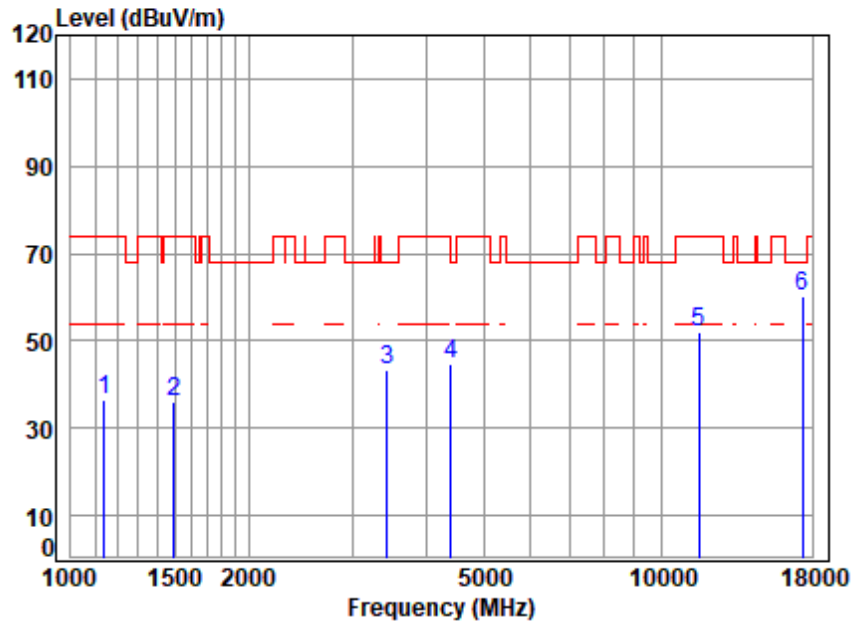


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	2.70	25.02	39.73	48.36	36.35	74.00	-37.65	peak
2	1597.181	3.35	26.20	40.01	46.88	36.42	74.00	-37.58	peak
3	3396.098	5.39	31.45	41.00	46.82	42.66	68.20	-25.54	peak
4	4086.182	6.37	32.67	41.49	48.45	46.00	74.00	-28.00	peak
5	11490.000	11.62	38.10	37.86	40.64	52.50	74.00	-21.50	peak
6	17235.000	14.09	42.64	40.28	44.05	60.50	68.20	-7.70	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

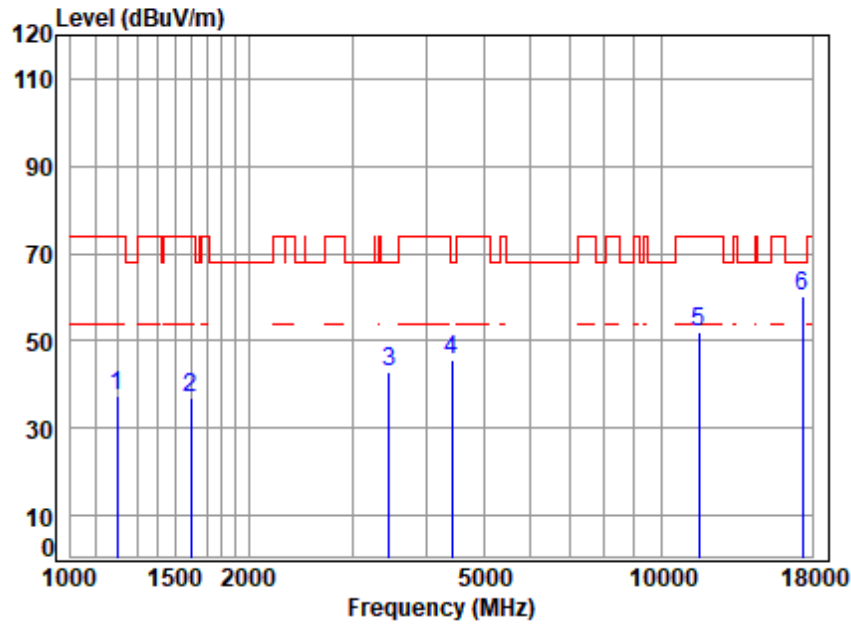


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

		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	1138.904	2.65	24.95	39.71	48.71	36.60	74.00	-37.40	peak
2	1494.455	3.25	25.69	39.95	47.10	36.09	74.00	-37.91	peak
3	3435.590	5.44	31.54	41.03	47.29	43.24	68.20	-24.96	peak
4	4405.090	6.67	32.93	41.79	46.94	44.75	68.20	-23.45	peak
5	11570.000	11.72	38.09	37.90	40.20	52.11	74.00	-21.89	peak
6	17355.000	14.06	42.76	40.25	43.78	60.35	68.20	-7.85	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

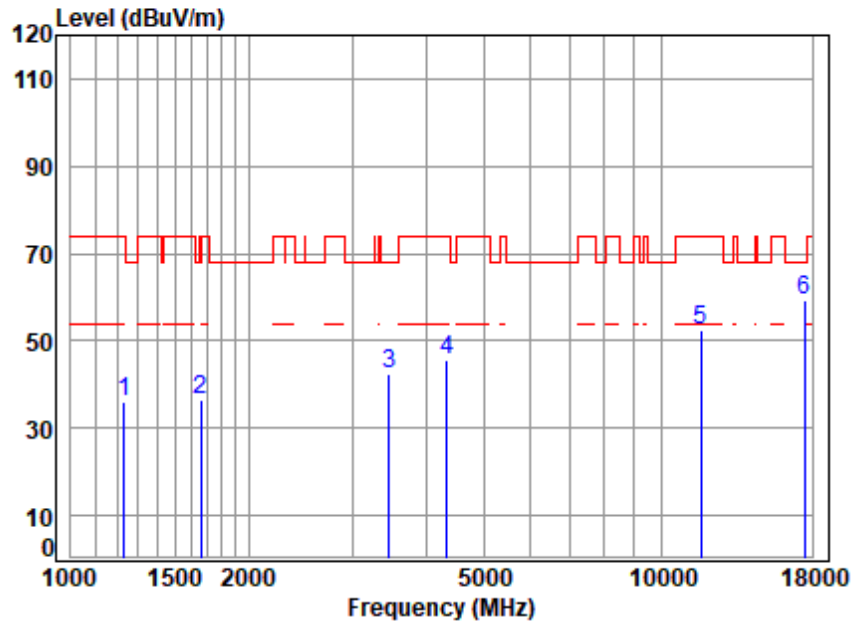


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	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	1196.264	2.76	25.09	39.76	49.25	37.34	74.00 -36.66 peak
2	1597.181	3.35	26.20	40.01	47.23	36.77	74.00 -37.23 peak
3	3465.510	5.48	31.62	41.05	46.88	42.93	68.20 -25.27 peak
4	4417.841	6.68	32.94	41.80	48.00	45.82	68.20 -22.38 peak
5	11570.000	11.72	38.09	37.90	40.25	52.16	74.00 -21.84 peak
6	17355.000	14.06	42.76	40.25	43.79	60.36	68.20 -7.84 peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High

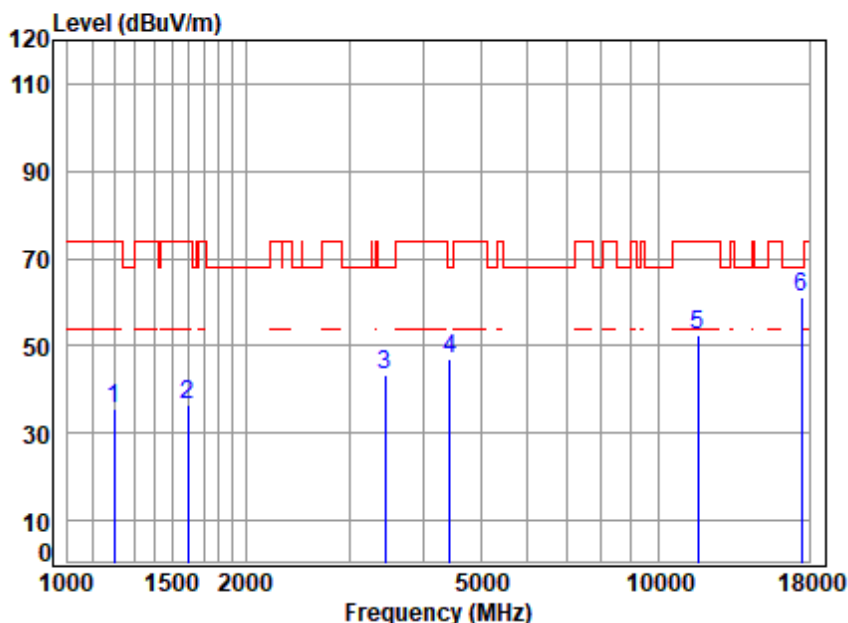


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

		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	1231.345	2.82	25.16	39.78	47.97	36.17	74.00	-37.83	peak
2	1663.137	3.40	26.53	40.04	46.40	36.29	74.00	-37.71	peak
3	3455.508	5.47	31.59	41.04	46.26	42.28	68.20	-25.92	peak
4	4329.354	6.60	32.87	41.72	47.80	45.55	74.00	-28.45	peak
5	11650.000	11.82	38.07	37.94	40.43	52.38	74.00	-21.62	peak
6	17475.000	14.02	42.88	40.23	42.86	59.53	68.20	-8.67	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

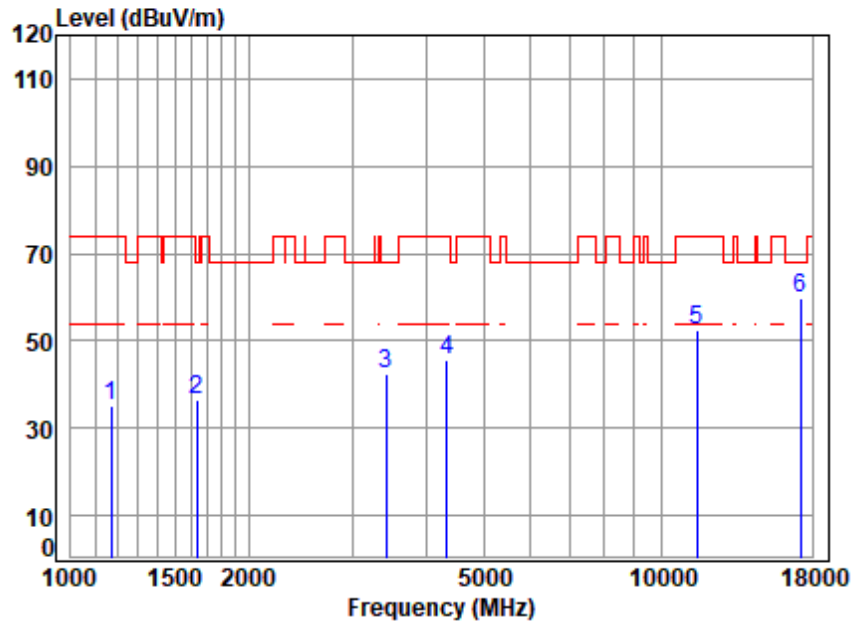


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

		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	1196.264	2.76	25.09	39.76	47.67	35.76	74.00	-38.24	peak
2	1597.181	3.35	26.20	40.01	46.79	36.33	74.00	-37.67	peak
3	3445.535	5.45	31.57	41.04	47.21	43.19	68.20	-25.01	peak
4	4430.628	6.70	32.95	41.81	49.21	47.05	68.20	-21.15	peak
5	11650.000	11.82	38.07	37.94	40.39	52.34	74.00	-21.66	peak
6	17475.000	14.02	42.88	40.23	44.57	61.24	68.20	-6.96	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

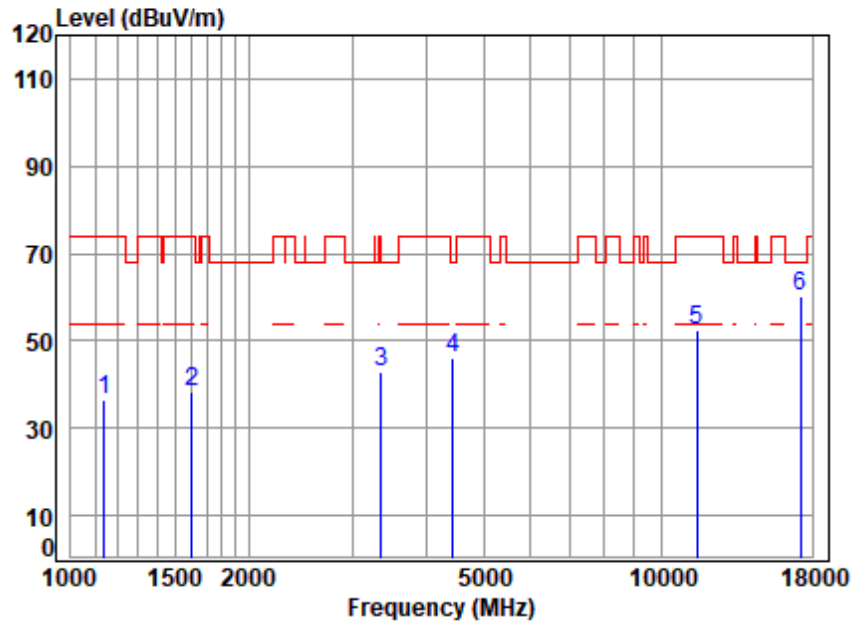


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	2.71	25.02	39.74	46.92	34.91	74.00	-39.09	peak
2	1634.543	3.38	26.39	40.03	46.54	36.28	68.20	-31.92	peak
3	3415.787	5.42	31.49	41.02	46.69	42.58	68.20	-25.62	peak
4	4341.886	6.61	32.88	41.73	47.83	45.59	74.00	-28.41	peak
5	11490.000	11.62	38.10	37.86	40.70	52.56	74.00	-21.44	peak
6	17235.000	14.09	42.64	40.28	43.18	59.63	68.20	-8.57	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

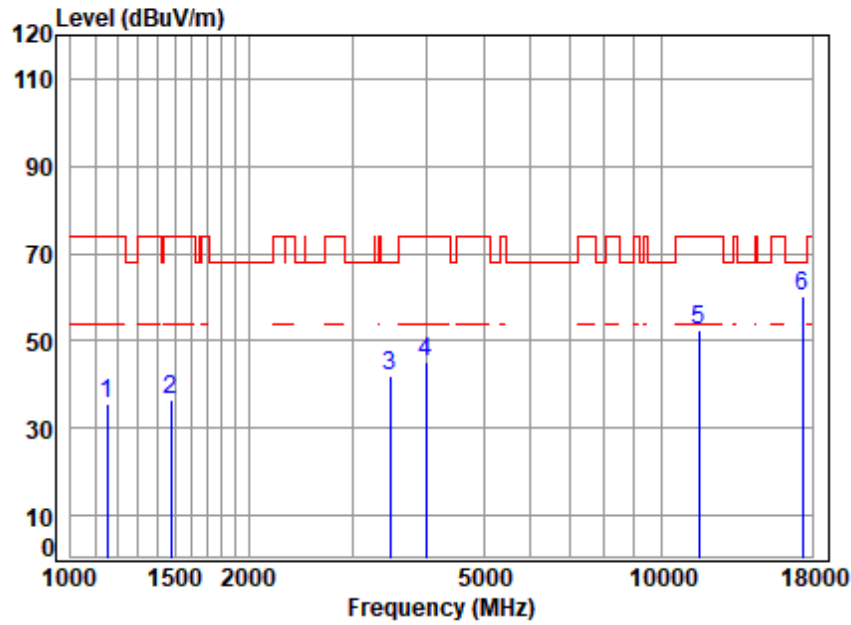


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.63	36.52	74.00	-37.48	peak
2	1601.804	3.35	26.22	40.01	48.60	38.16	74.00	-35.84	peak
3	3357.061	5.34	31.35	40.97	47.33	43.05	74.00	-30.95	peak
4	4430.628	6.70	32.95	41.81	48.04	45.88	68.20	-22.32	peak
5	11490.000	11.62	38.10	37.86	40.81	52.67	74.00	-21.33	peak
6	17235.000	14.09	42.64	40.28	43.61	60.06	68.20	-8.14	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

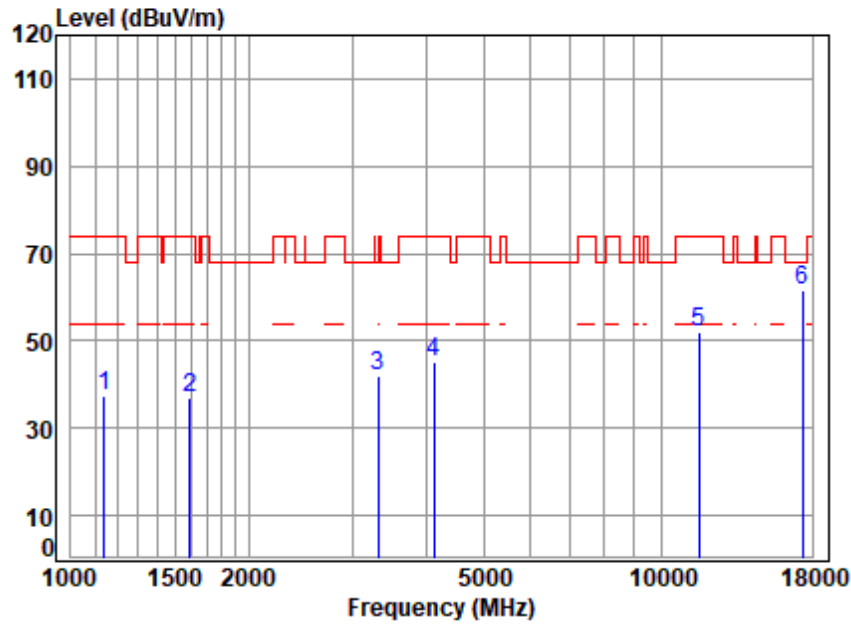


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.98	39.72	47.72	35.65	74.00	-38.35	peak
2	1477.276	3.23	25.66	39.94	47.60	36.55	74.00	-37.45	peak
3	3475.541	5.49	31.64	41.06	46.02	42.09	68.20	-26.11	peak
4	3992.781	6.27	32.59	41.40	47.58	45.04	74.00	-28.96	peak
5	11570.000	11.72	38.09	37.90	40.77	52.68	74.00	-21.32	peak
6	17355.000	14.06	42.76	40.25	43.53	60.10	68.20	-8.10	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

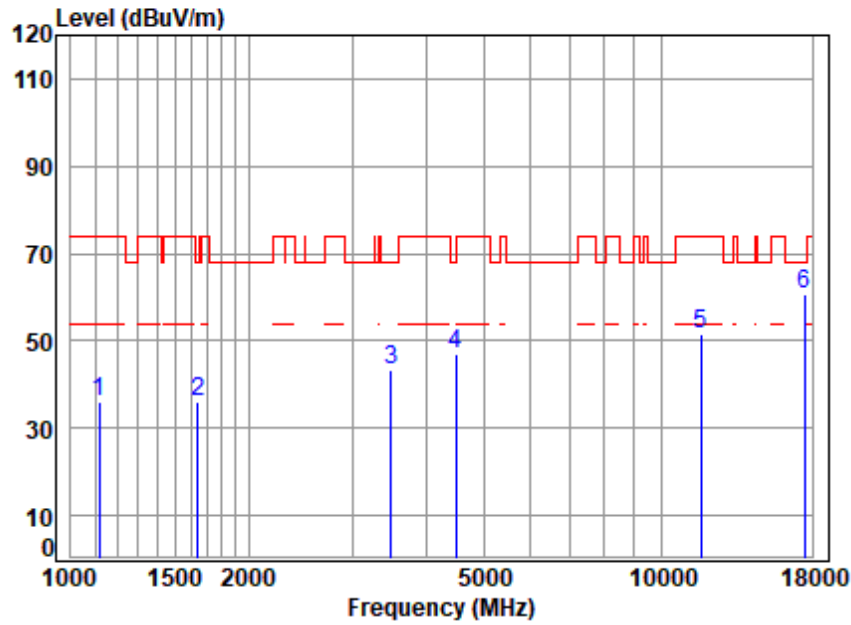
Mode : 5785 TX RSE

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	49.57	37.46	74.00	-36.54	peak
2	1592.571	3.34	26.18	40.00	47.49	37.01	74.00	-36.99	peak
3	3318.471	5.29	31.25	40.95	46.54	42.13	68.20	-26.07	peak
4	4121.768	6.40	32.70	41.52	47.42	45.00	74.00	-29.00	peak
5	11570.000	11.72	38.09	37.90	40.13	52.04	74.00	-21.96	peak
6	17355.000	14.06	42.76	40.25	44.81	61.38	68.20	-6.82	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

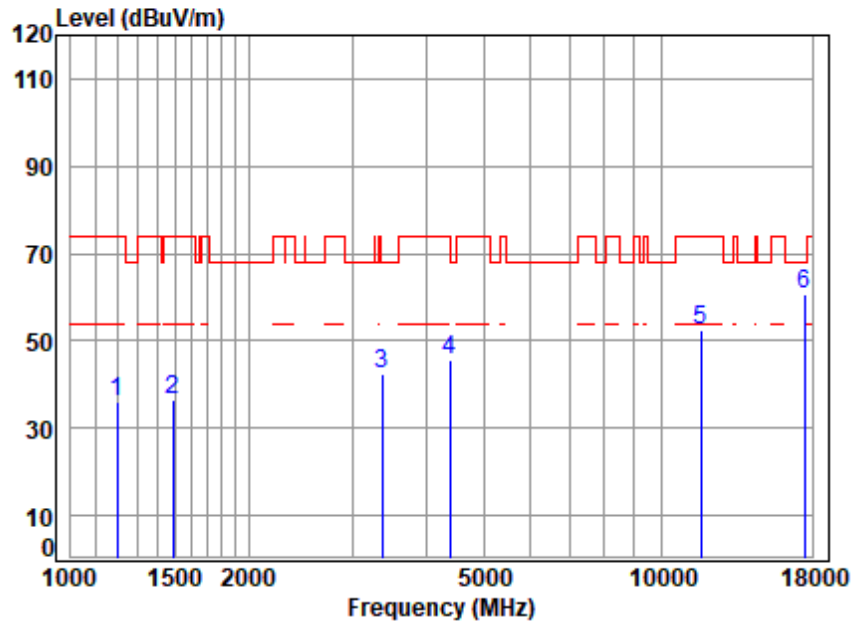


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.60	24.90	39.70	48.28	36.08	74.00	-37.92	peak
2	1644.019	3.38	26.43	40.03	46.12	35.90	68.20	-32.30	peak
3	3485.601	5.50	31.67	41.07	47.29	43.39	68.20	-24.81	peak
4	4495.125	6.76	33.00	41.87	49.02	46.91	68.20	-21.29	peak
5	11650.000	11.82	38.07	37.94	39.68	51.63	74.00	-22.37	peak
6	17475.000	14.02	42.88	40.23	43.87	60.54	68.20	-7.66	peak



Test Mode: 10; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

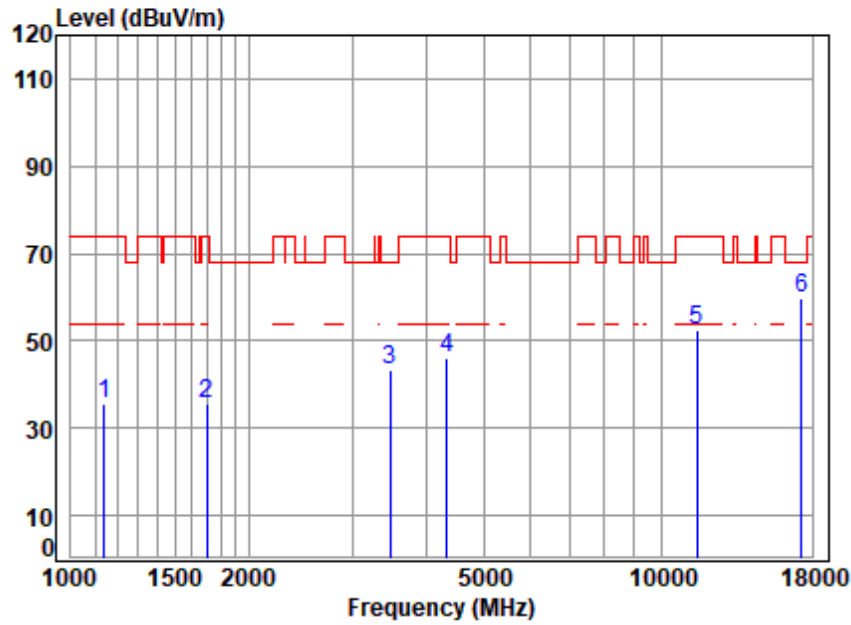


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1196.264	2.76	25.09	39.76	48.00	36.09	74.00 -37.91 peak
2	1490.142	3.25	25.68	39.95	47.42	36.40	74.00 -37.60 peak
3	3366.778	5.35	31.37	40.98	46.52	42.26	68.20 -25.94 peak
4	4379.699	6.65	32.91	41.77	48.00	45.79	74.00 -28.21 peak
5	11650.000	11.82	38.07	37.94	40.51	52.46	74.00 -21.54 peak
6	17475.000	14.02	42.88	40.23	44.21	60.88	68.20 -7.32 peak



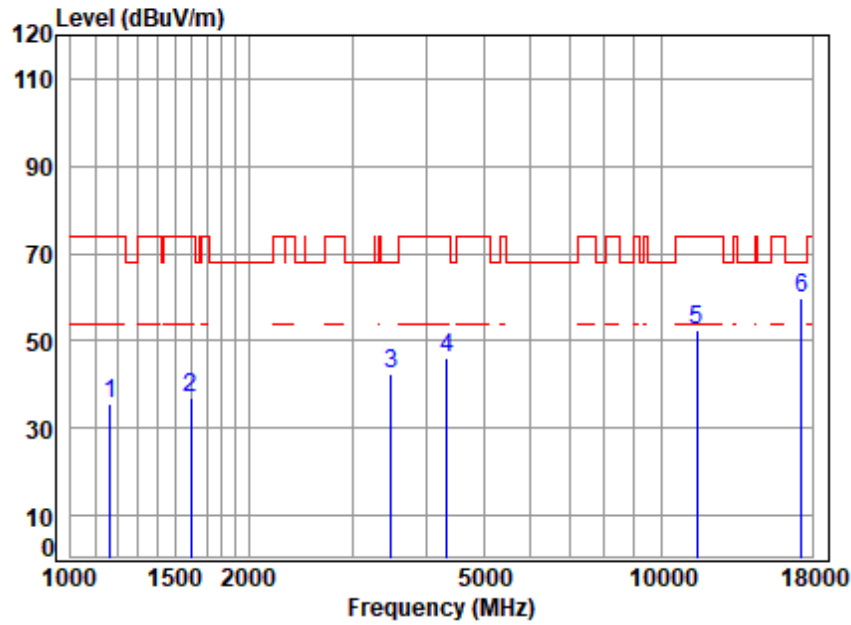
Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5755 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	47.67	35.56	74.00	-38.44	peak
2	1702.042	3.43	26.71	40.06	45.49	35.57	74.00	-38.43	peak
3	3475.541	5.49	31.64	41.06	47.05	43.12	68.20	-25.08	peak
4	4329.354	6.60	32.87	41.72	48.18	45.93	74.00	-28.07	peak
5	11510.000	11.64	38.10	37.87	40.75	52.62	74.00	-21.38	peak
6	17265.000	14.08	42.67	40.28	43.41	59.88	68.20	-8.32	peak

Test Mode: 10; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

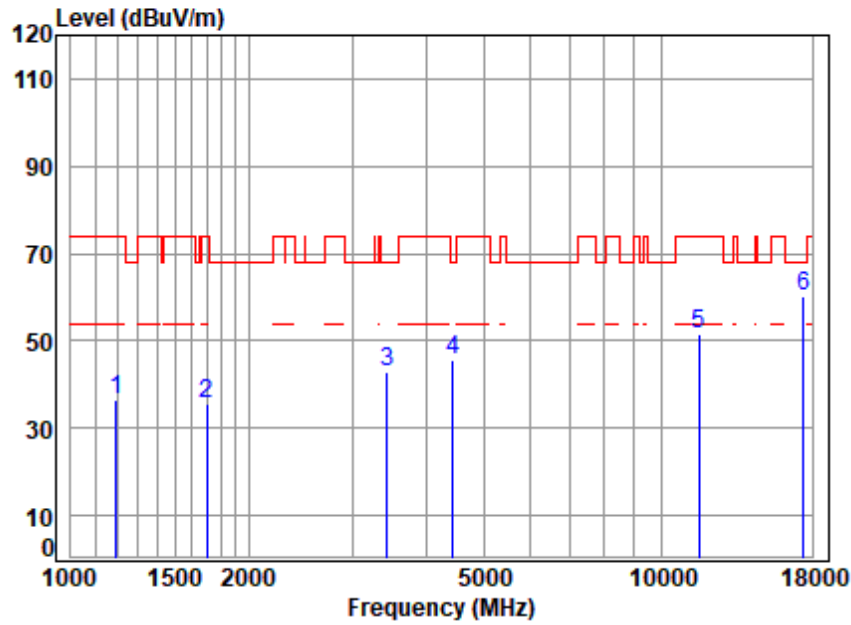
Mode : 5755 TX RSE

Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	2.70	25.02	39.73	47.76	35.75	74.00	-38.25	peak
2	1597.181	3.35	26.20	40.01	47.59	37.13	74.00	-36.87	peak
3	3485.601	5.50	31.67	41.07	46.45	42.55	68.20	-25.65	peak
4	4341.886	6.61	32.88	41.73	48.24	46.00	74.00	-28.00	peak
5	11510.000	11.64	38.10	37.87	40.62	52.49	74.00	-21.51	peak
6	17265.000	14.08	42.67	40.28	43.45	59.92	68.20	-8.28	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

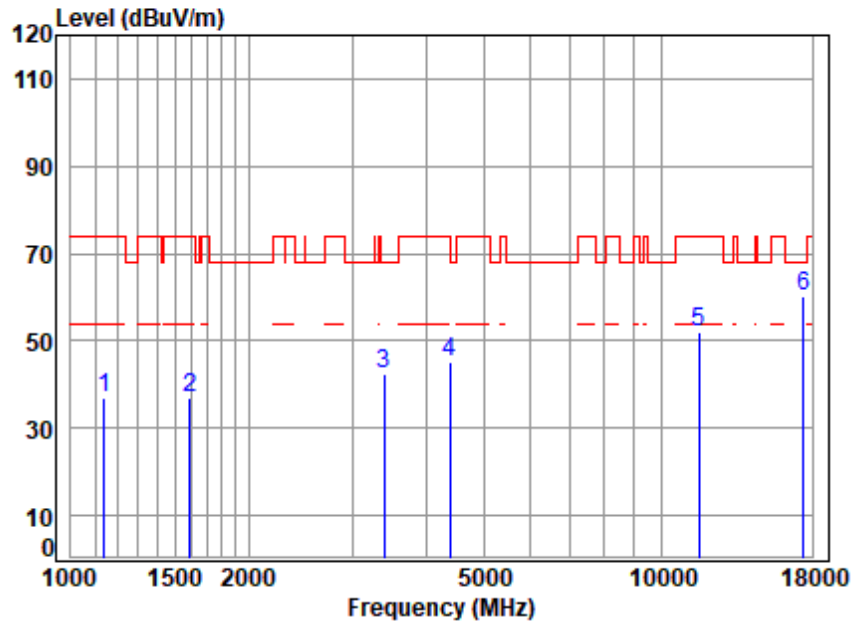


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5795 TX RSE
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	2.75	25.08	39.75	48.32	36.40	74.00	-37.60	peak
2	1697.129	3.43	26.69	40.06	45.47	35.53	74.00	-38.47	peak
3	3435.590	5.44	31.54	41.03	46.72	42.67	68.20	-25.53	peak
4	4443.453	6.71	32.96	41.82	47.81	45.66	68.20	-22.54	peak
5	11590.000	11.74	38.08	37.91	39.85	51.76	74.00	-22.24	peak
6	17385.000	14.05	42.79	40.25	43.82	60.41	68.20	-7.79	peak



Test Mode: 10; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 20539AT

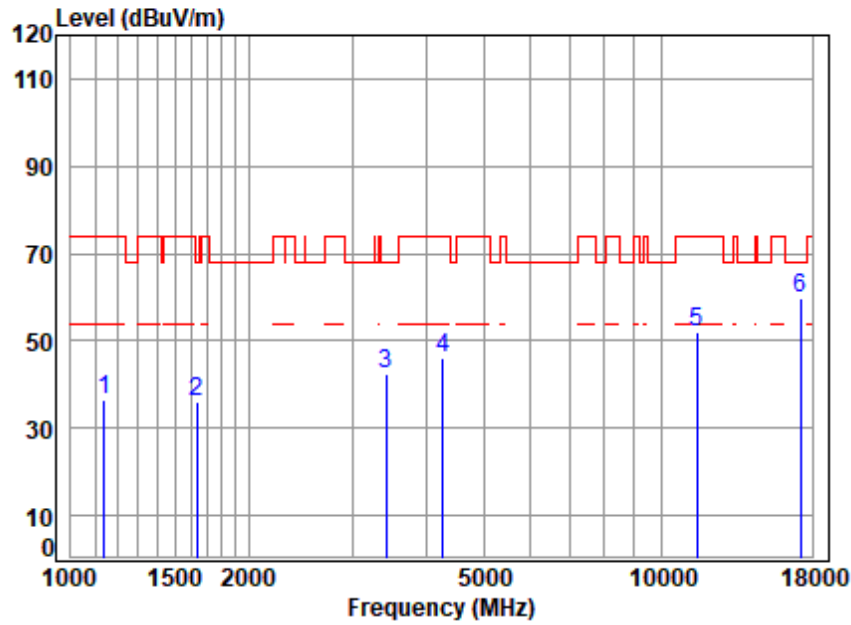
Mode : 5795 TX RSE

Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.95	39.71	48.97	36.86	74.00	-37.14	peak
2	1592.571	3.34	26.18	40.00	47.26	36.78	74.00	-37.22	peak
3	3396.098	5.39	31.45	41.00	46.58	42.42	68.20	-25.78	peak
4	4379.699	6.65	32.91	41.77	47.52	45.31	74.00	-28.69	peak
5	11590.000	11.74	38.08	37.91	40.23	52.14	74.00	-21.86	peak
6	17385.000	14.05	42.79	40.25	43.64	60.23	68.20	-7.97	peak



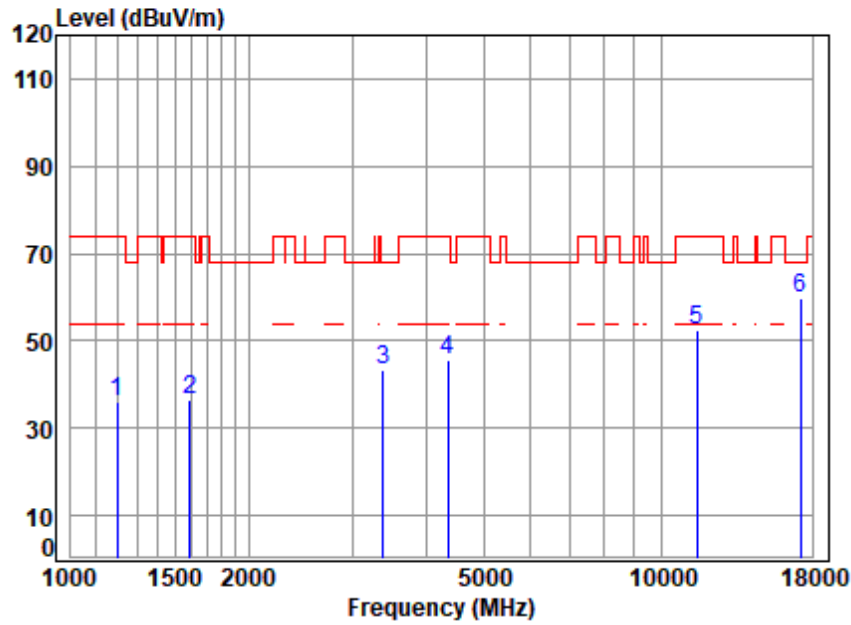
Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

		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	1138.904	2.65	24.95	39.71	48.44	36.33	74.00	-37.67	peak
2	1634.543	3.38	26.39	40.03	46.23	35.97	68.20	-32.23	peak
3	3415.787	5.42	31.49	41.02	46.51	42.40	68.20	-25.80	peak
4	4267.237	6.54	32.82	41.66	48.21	45.91	74.00	-28.09	peak
5	11490.000	11.62	38.10	37.86	40.29	52.15	74.00	-21.85	peak
6	17235.000	14.09	42.64	40.28	43.35	59.80	68.20	-8.40	peak

Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

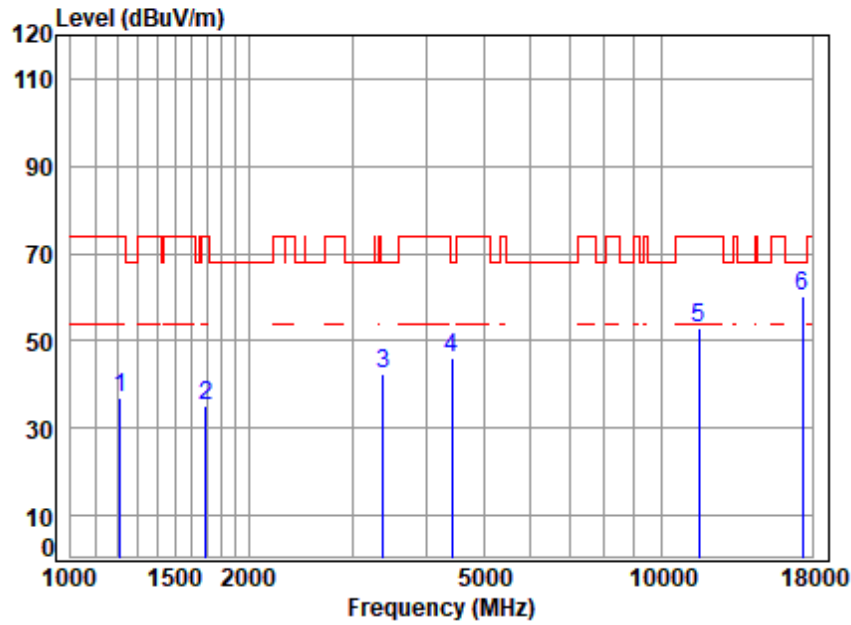


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

		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	1196.264	2.76	25.09	39.76	47.96	36.05	74.00	-37.95	peak
2	1592.571	3.34	26.18	40.00	46.87	36.39	74.00	-37.61	peak
3	3376.523	5.37	31.40	40.99	47.38	43.16	68.20	-25.04	peak
4	4354.454	6.63	32.89	41.74	48.00	45.78	74.00	-28.22	peak
5	11490.000	11.62	38.10	37.86	40.72	52.58	74.00	-21.42	peak
6	17235.000	14.09	42.64	40.28	43.50	59.95	68.20	-8.25	peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle

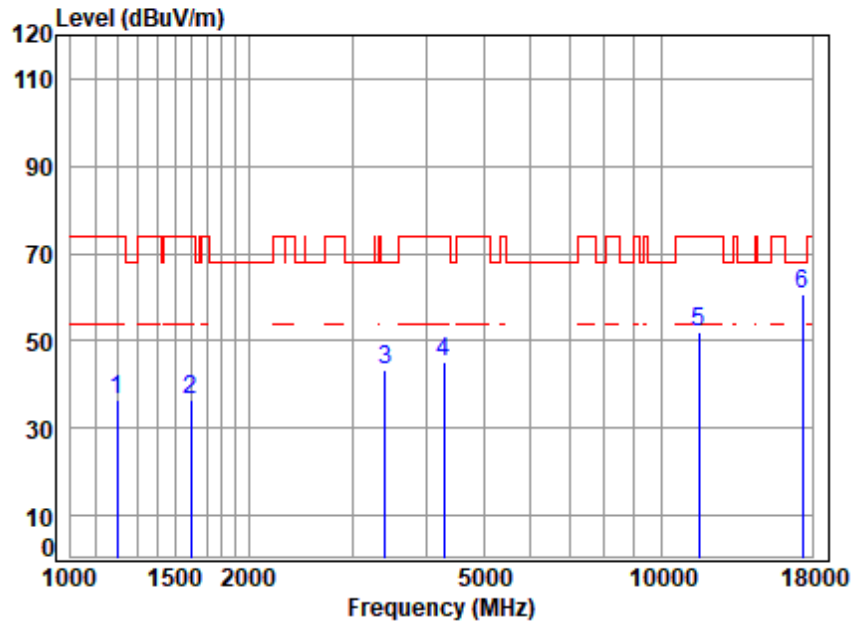


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	2.79	25.13	39.77	48.66	36.81	74.00	-37.19	peak
2	1692.231	3.42	26.66	40.06	45.34	35.36	74.00	-38.64	peak
3	3376.523	5.37	31.40	40.99	46.45	42.23	68.20	-25.97	peak
4	4417.841	6.68	32.94	41.80	48.23	46.05	68.20	-22.15	peak
5	11570.000	11.72	38.09	37.90	40.81	52.72	74.00	-21.28	peak
6	17355.000	14.06	42.76	40.25	43.69	60.26	68.20	-7.94	peak



Test Mode: 10; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle

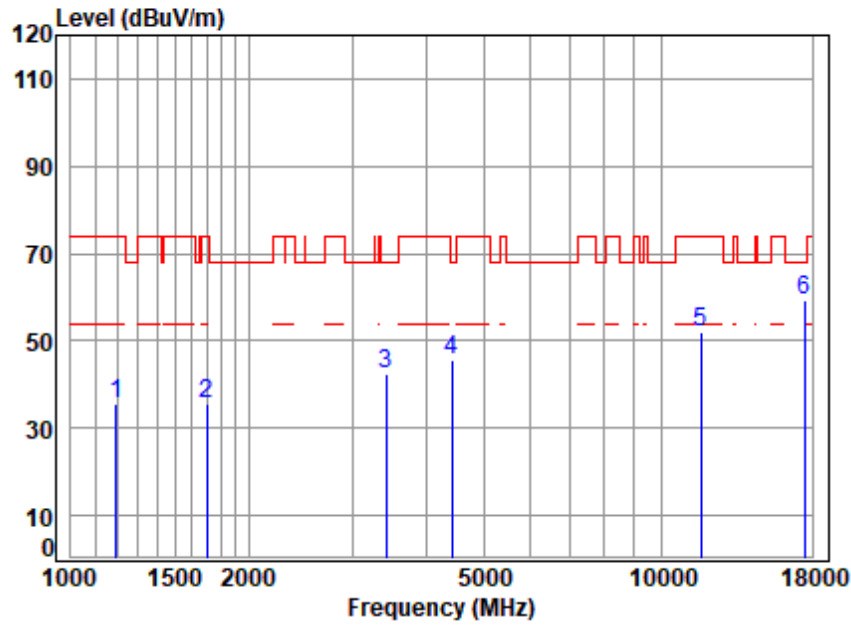


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

		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	1196.264	2.76	25.09	39.76	48.36	36.45	74.00	-37.55	peak
2	1597.181	3.35	26.20	40.01	46.96	36.50	74.00	-37.50	peak
3	3405.929	5.40	31.47	41.01	47.33	43.19	68.20	-25.01	peak
4	4279.589	6.56	32.83	41.67	47.41	45.13	74.00	-28.87	peak
5	11570.000	11.72	38.09	37.90	40.00	51.91	74.00	-22.09	peak
6	17355.000	14.06	42.76	40.25	44.16	60.73	68.20	-7.47	peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High

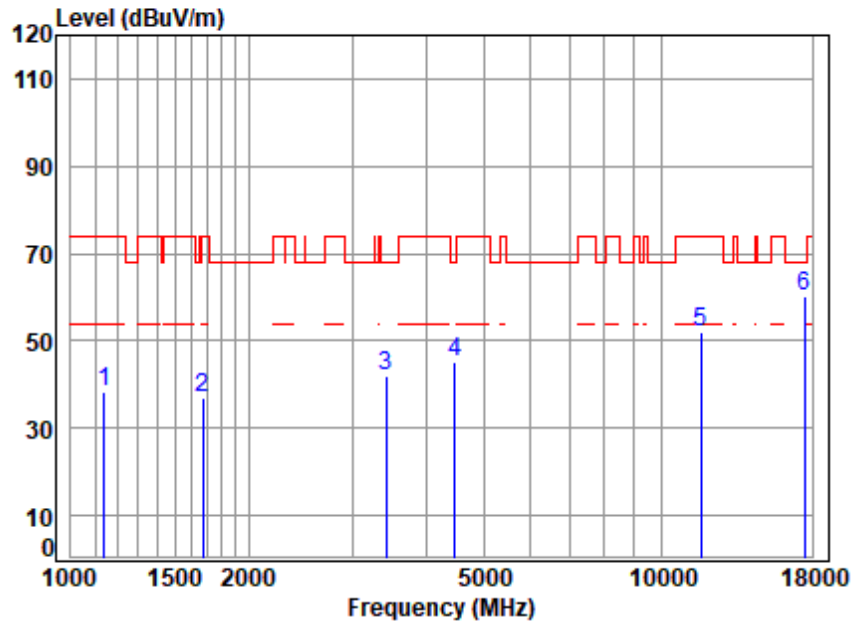


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

		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	1192.811	2.75	25.08	39.75	47.44	35.52	74.00	-38.48	peak
2	1702.042	3.43	26.71	40.06	45.42	35.50	74.00	-38.50	peak
3	3415.787	5.42	31.49	41.02	46.52	42.41	68.20	-25.79	peak
4	4417.841	6.68	32.94	41.80	47.94	45.76	68.20	-22.44	peak
5	11650.000	11.82	38.07	37.94	40.22	52.17	74.00	-21.83	peak
6	17475.000	14.02	42.88	40.23	42.69	59.36	68.20	-8.84	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

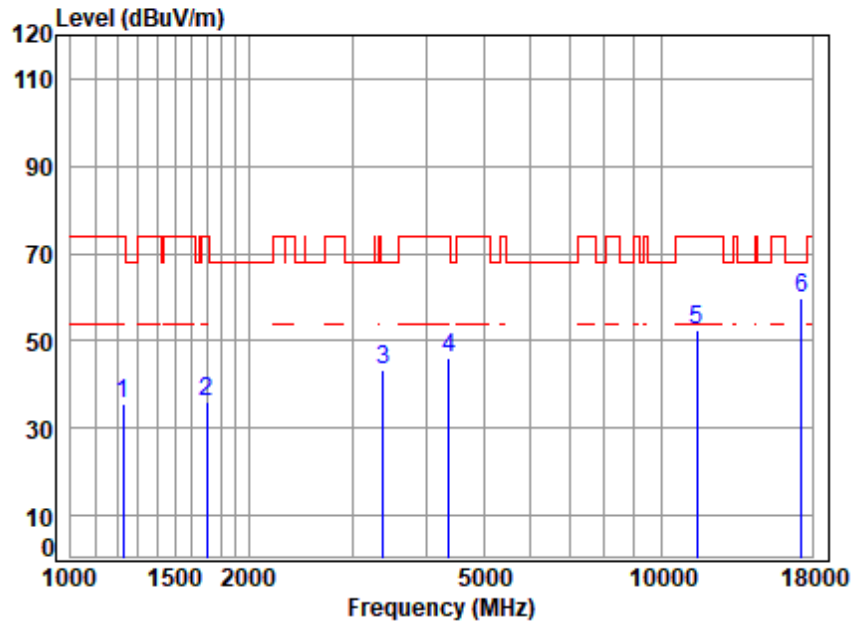


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

		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	1138.904	2.65	24.95	39.71	50.26	38.15	74.00	-35.85	peak
2	1672.779	3.41	26.57	40.05	47.13	37.06	74.00	-36.94	peak
3	3425.675	5.43	31.52	41.02	46.26	42.19	68.20	-26.01	peak
4	4469.214	6.73	32.98	41.85	47.33	45.19	68.20	-23.01	peak
5	11650.000	11.82	38.07	37.94	40.15	52.10	74.00	-21.90	peak
6	17475.000	14.02	42.88	40.23	43.75	60.42	68.20	-7.78	peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

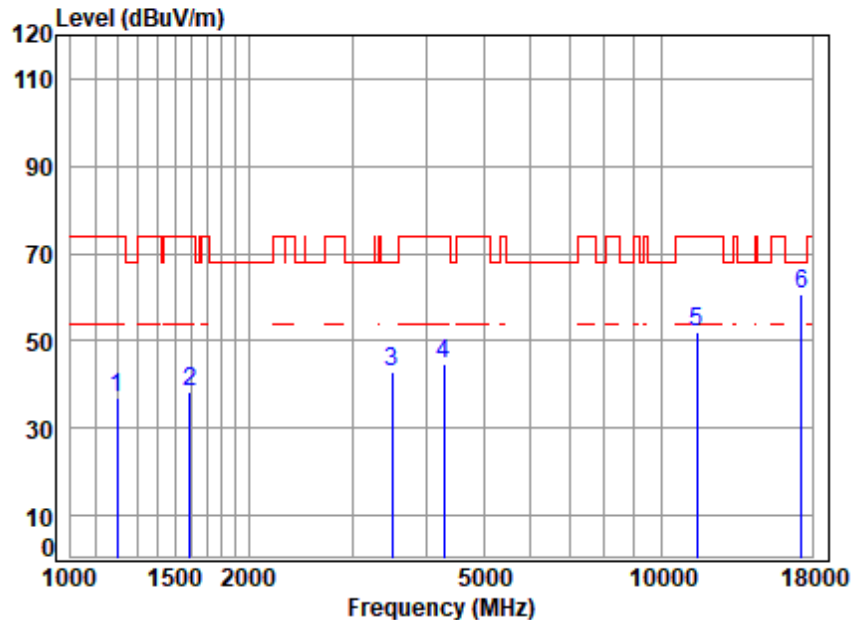


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

		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	1227.791	2.82	25.16	39.78	47.27	35.47	74.00	-38.53 peak
2	1697.129	3.43	26.69	40.06	46.06	36.12	74.00	-37.88 peak
3	3386.297	5.38	31.42	40.99	47.34	43.15	68.20	-25.05 peak
4	4367.058	6.64	32.90	41.75	48.23	46.02	74.00	-27.98 peak
5	11510.000	11.64	38.10	37.87	40.44	52.31	74.00	-21.69 peak
6	17265.000	14.08	42.67	40.28	43.27	59.74	68.20	-8.46 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

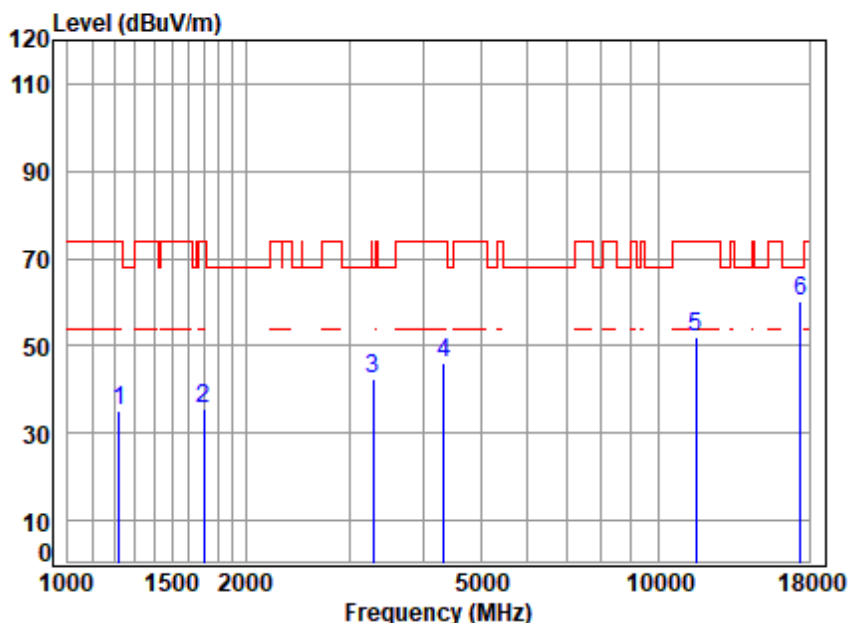


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

		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	1196.264	2.76	25.09	39.76	48.81	36.90	74.00	-37.10	peak
2	1592.571	3.34	26.18	40.00	48.68	38.20	74.00	-35.80	peak
3	3495.691	5.51	31.69	41.07	46.87	43.00	68.20	-25.20	peak
4	4291.977	6.57	32.84	41.68	47.10	44.83	74.00	-29.17	peak
5	11510.000	11.64	38.10	37.87	40.33	52.20	74.00	-21.80	peak
6	17265.000	14.08	42.67	40.28	44.06	60.53	68.20	-7.67	peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High

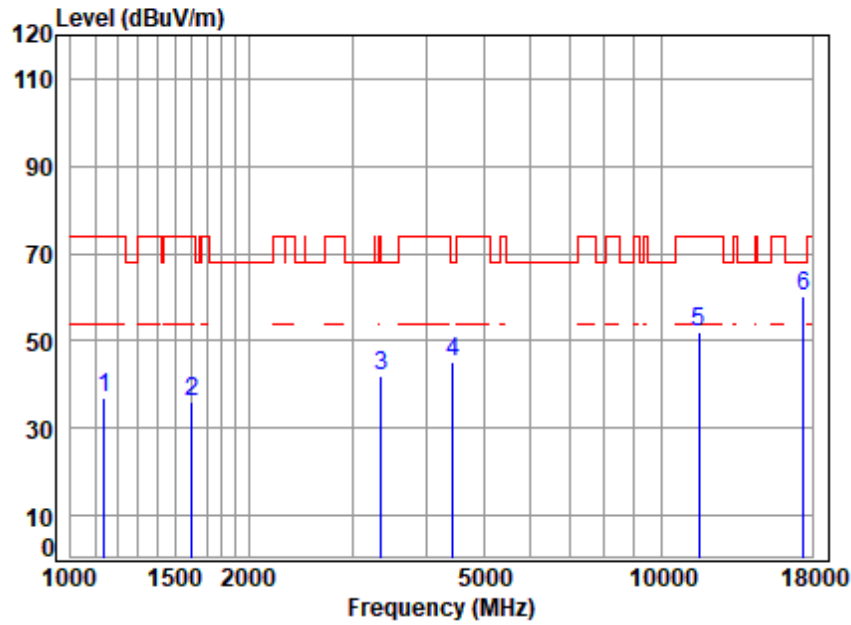


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	2.80	25.14	39.77	47.15	35.32	74.00	-38.68	peak
2	1702.042	3.43	26.71	40.06	45.58	35.66	74.00	-38.34	peak
3	3289.821	5.25	31.18	40.92	46.77	42.28	68.20	-25.92	peak
4	4341.886	6.61	32.88	41.73	48.20	45.96	74.00	-28.04	peak
5	11590.000	11.74	38.08	37.91	40.15	52.06	74.00	-21.94	peak
6	17385.000	14.05	42.79	40.25	43.67	60.26	68.20	-7.94	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

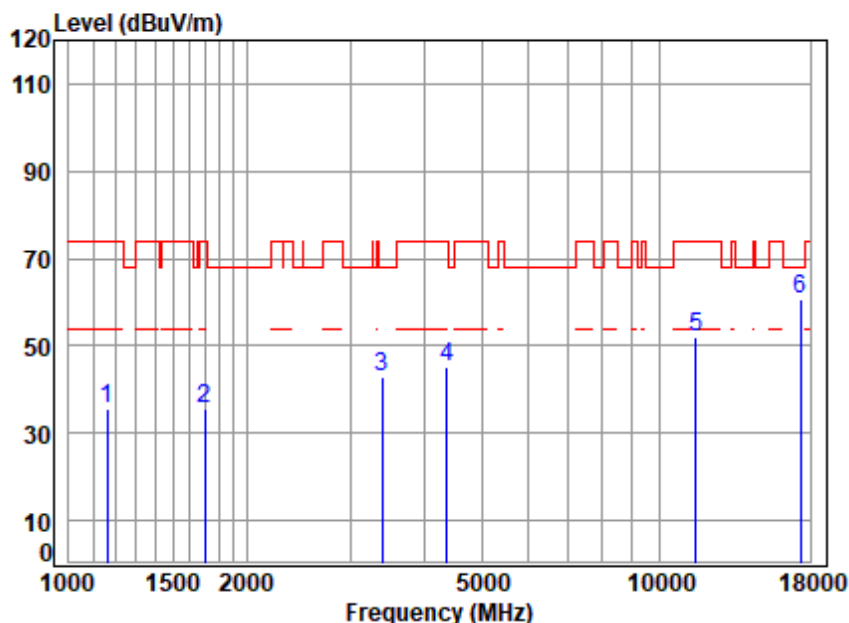


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

		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	1138.904	2.65	24.95	39.71	48.88	36.77	74.00	-37.23	peak
2	1601.804	3.35	26.22	40.01	46.58	36.14	74.00	-37.86	peak
3	3357.061	5.34	31.35	40.97	46.36	42.08	74.00	-31.92	peak
4	4443.453	6.71	32.96	41.82	47.54	45.39	68.20	-22.81	peak
5	11590.000	11.74	38.08	37.91	40.19	52.10	74.00	-21.90	peak
6	17385.000	14.05	42.79	40.25	43.69	60.28	68.20	-7.92	peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

		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	1162.182	2.69	25.01	39.73	47.55	35.52	74.00	-38.48	peak
2	1702.042	3.43	26.71	40.06	45.43	35.51	74.00	-38.49	peak
3	3396.098	5.39	31.45	41.00	46.92	42.76	68.20	-25.44	peak
4	4367.058	6.64	32.90	41.75	47.61	45.40	74.00	-28.60	peak
5	11550.000	11.69	38.09	37.89	40.21	52.10	74.00	-21.90	peak
6	17325.000	14.07	42.73	40.26	44.15	60.69	68.20	-7.51	peak

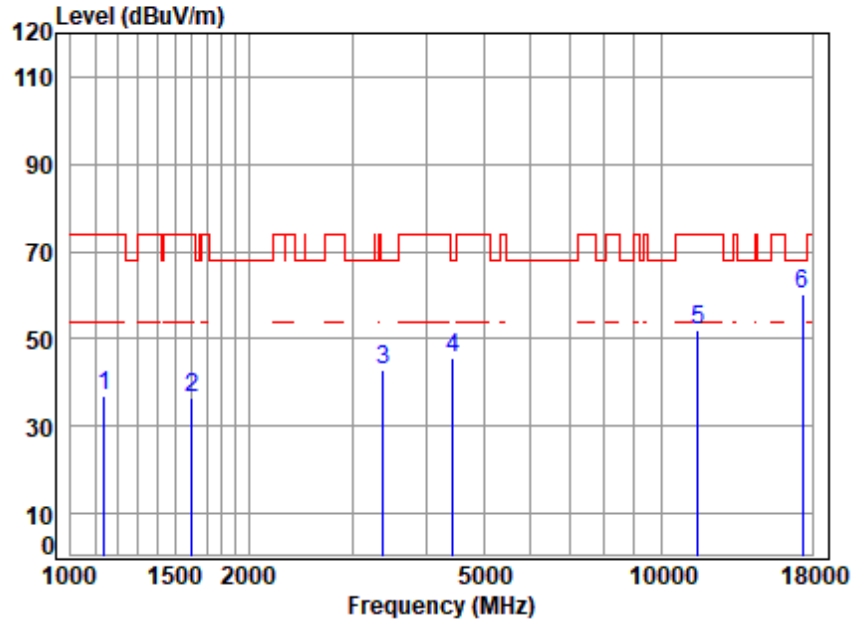


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Test Mode: 10; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

		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	1138.904	2.65	24.95	39.71	49.22	37.11	74.00	-36.89	peak
2	1601.804	3.35	26.22	40.01	47.00	36.56	74.00	-37.44	peak
3	3386.297	5.38	31.42	40.99	47.09	42.90	68.20	-25.30	peak
4	4443.453	6.71	32.96	41.82	47.61	45.46	68.20	-22.74	peak
5	11550.000	11.69	38.09	37.89	40.18	52.07	74.00	-21.93	peak
6	17325.000	14.07	42.73	40.26	43.76	60.30	68.20	-7.90	peak



7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

Humidity: 54.1 % RH

Atmospheric Pressure: 1010 mbar



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

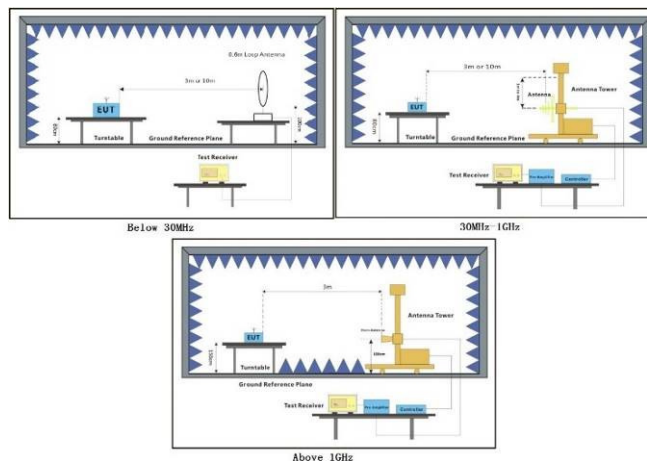
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



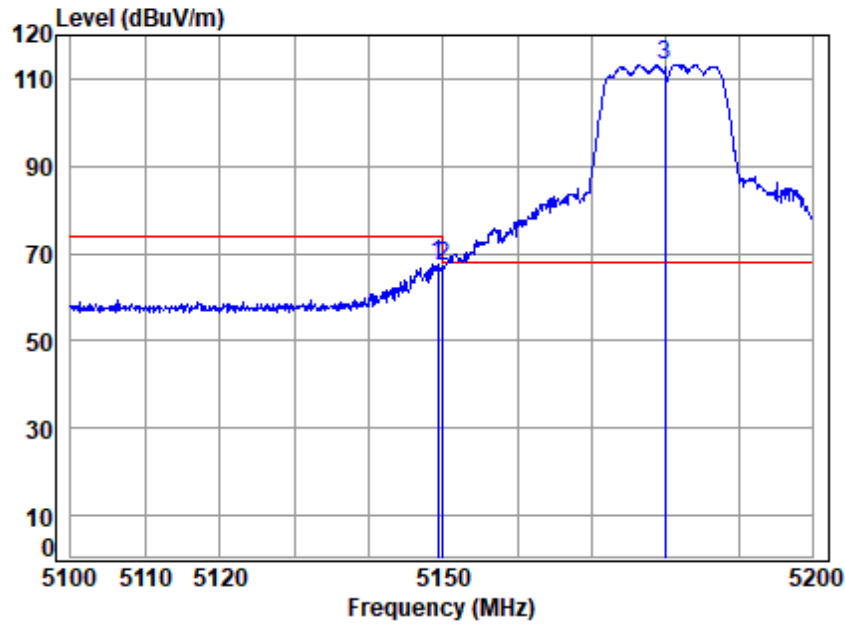
7.9.4 Measurement Procedure and Data

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



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

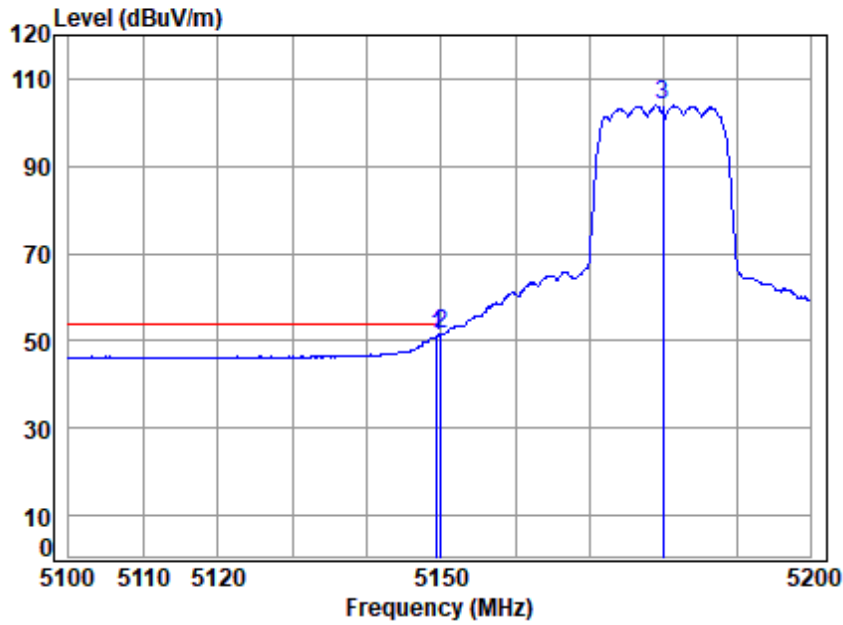


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5149.257	7.57	34.06	42.32	68.37	67.68	74.00	-6.32 peak
2	5149.980	7.57	34.06	42.32	67.74	67.05	74.00	-6.95 peak
3	5180.000	7.63	34.07	42.32	113.92	113.30	68.20	45.10 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

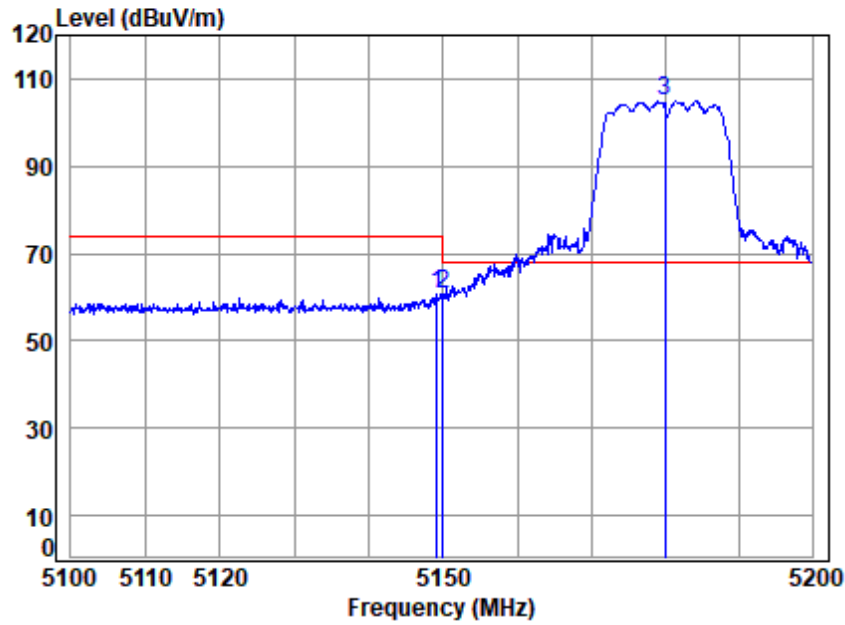


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5149.357	7.57	34.06	42.32	51.78	51.09	54.00	-2.91 Average
2	5149.980	7.57	34.06	42.32	52.10	51.41	54.00	-2.59 Average
3	5180.000	7.63	34.07	42.32	104.53	103.91	-----	----- Average



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

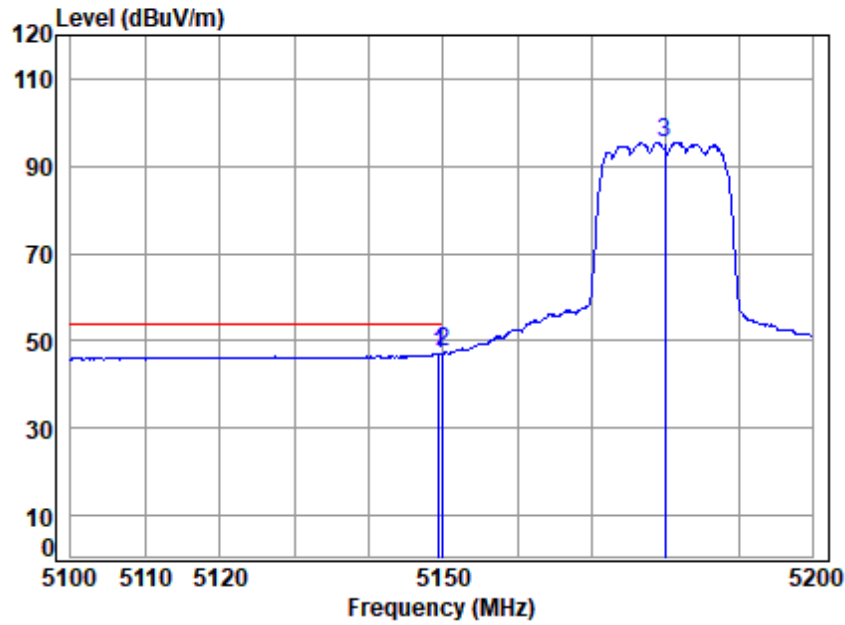


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11A

		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	5149.157	7.57	34.06	42.32	61.18	60.49	74.00	-13.51	peak
2	5149.980	7.57	34.06	42.32	61.56	60.87	74.00	-13.13	peak
3	5180.000	7.63	34.07	42.32	105.61	104.99	68.20	36.79	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

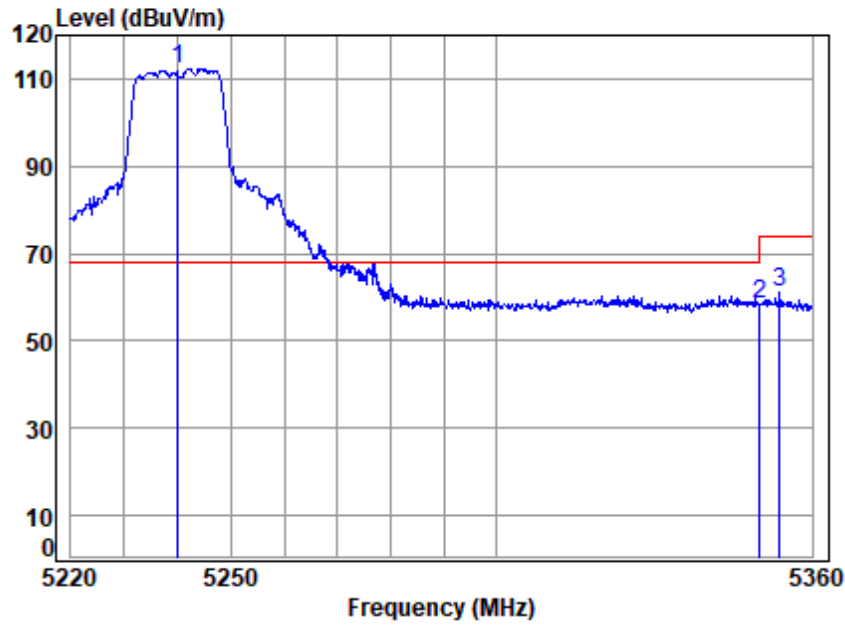


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11A

		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	5149.458	7.57	34.06	42.32	47.67	46.98	54.00	-7.02 Average
2	5149.980	7.57	34.06	42.32	47.94	47.25	54.00	-6.75 Average
3	5180.000	7.63	34.07	42.32	96.14	95.52	-----	----- Average



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

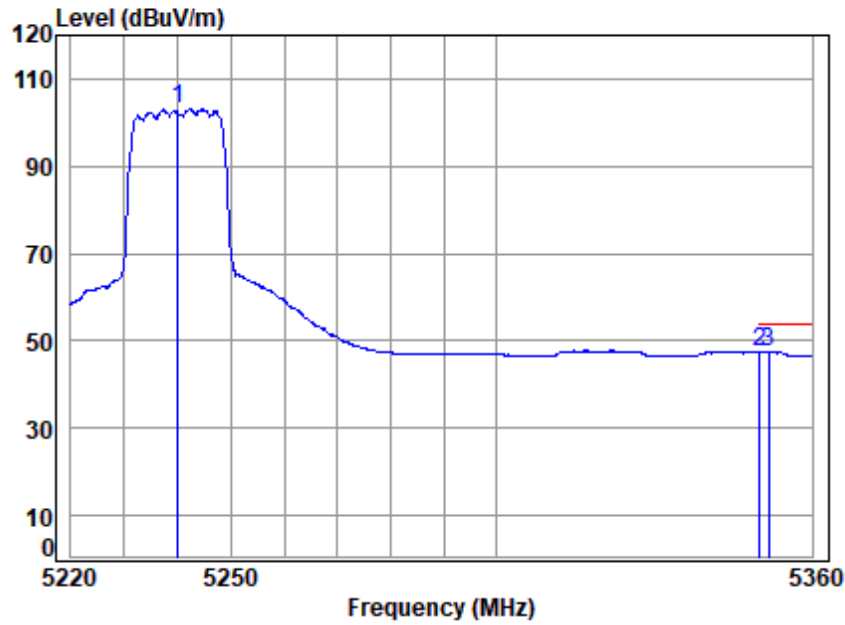


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11A

	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 . 5240.000	7.73	34.10	42.33	112.85	112.35	68.20	44.15	peak
2 5350.020	7.92	34.14	42.34	58.86	58.58	74.00	-15.42	peak
3 5353.762	7.93	34.14	42.34	61.27	61.00	74.00	-13.00	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

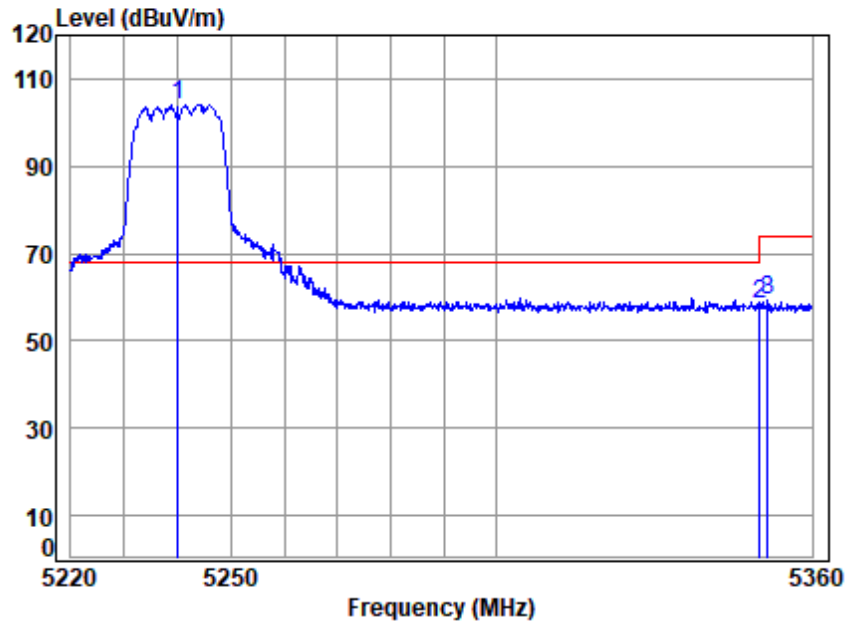


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11A

		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	5240.000	7.73	34.10	42.33	103.64	103.14	-----	Average
2	5350.020	7.92	34.14	42.34	47.70	47.42	54.00	-6.58 Average
3	5351.778	7.93	34.14	42.34	47.78	47.51	54.00	-6.49 Average



Test Mode: 09; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11A

	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 . 5240.000	7.73	34.10	42.33	104.61	104.11	68.20	35.91	peak
2 5350.020	7.92	34.14	42.34	58.67	58.39	74.00	-15.61	peak
3 5351.495	7.93	34.14	42.34	59.47	59.20	74.00	-14.80	peak

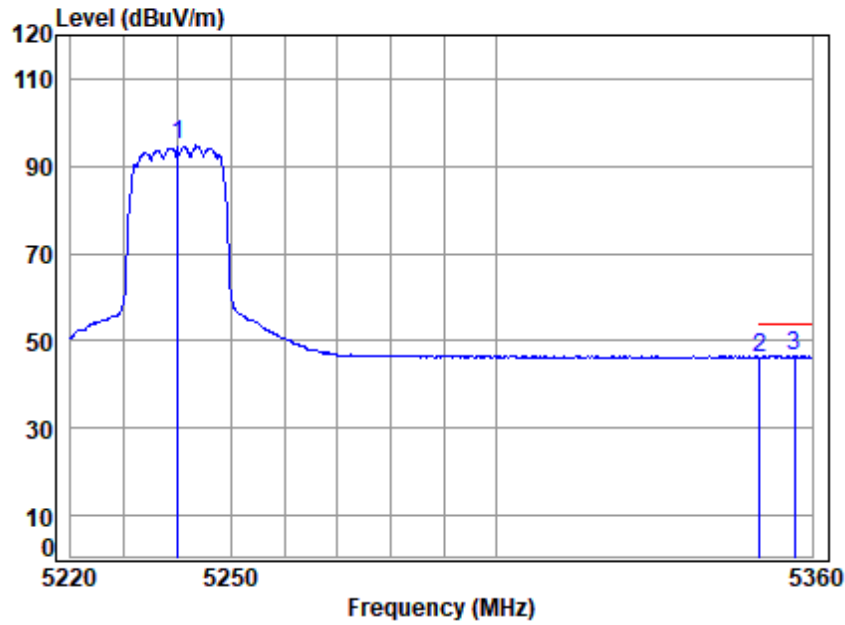


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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

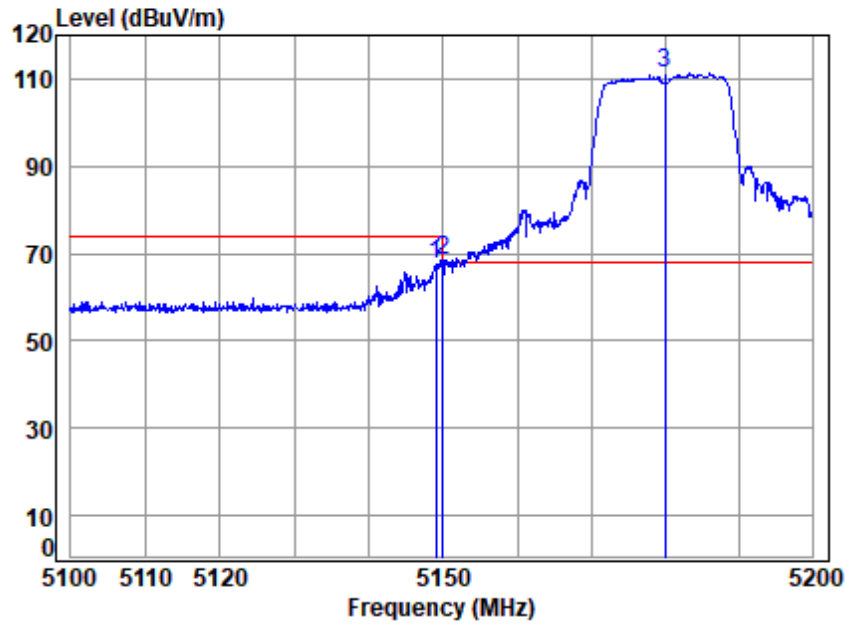


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11A

		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	5240.000	7.73	34.10	42.33	95.22	94.72	-----	Average
2	5350.020	7.92	34.14	42.34	46.55	46.27	54.00	-7.73 Average
3	5356.738	7.94	34.14	42.34	46.72	46.46	54.00	-7.54 Average



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

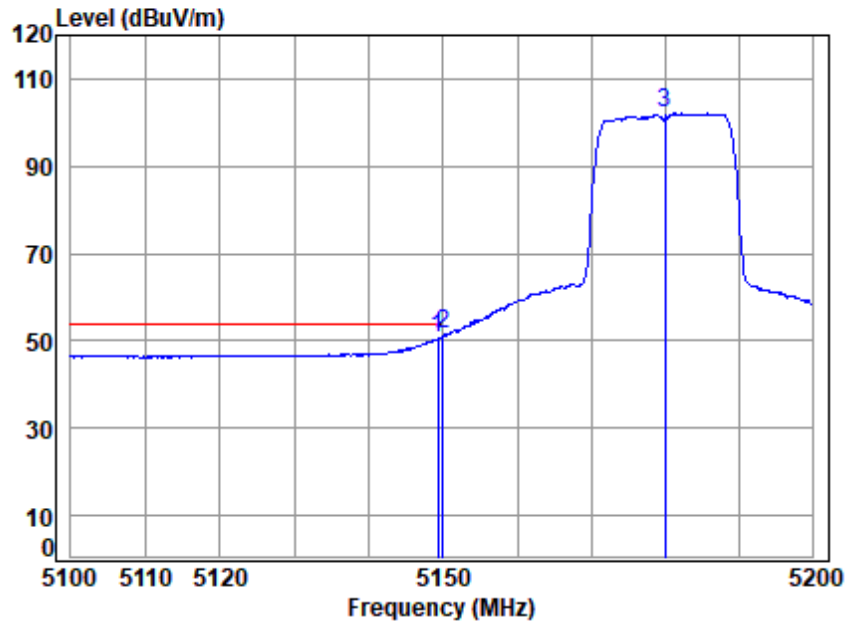


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.057	7.57	34.06	42.32	68.28	67.59	74.00	-6.41	peak
2	5149.980	7.57	34.06	42.32	69.35	68.66	74.00	-5.34	peak
3	5180.000	7.63	34.07	42.32	111.86	111.24	68.20	43.04	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

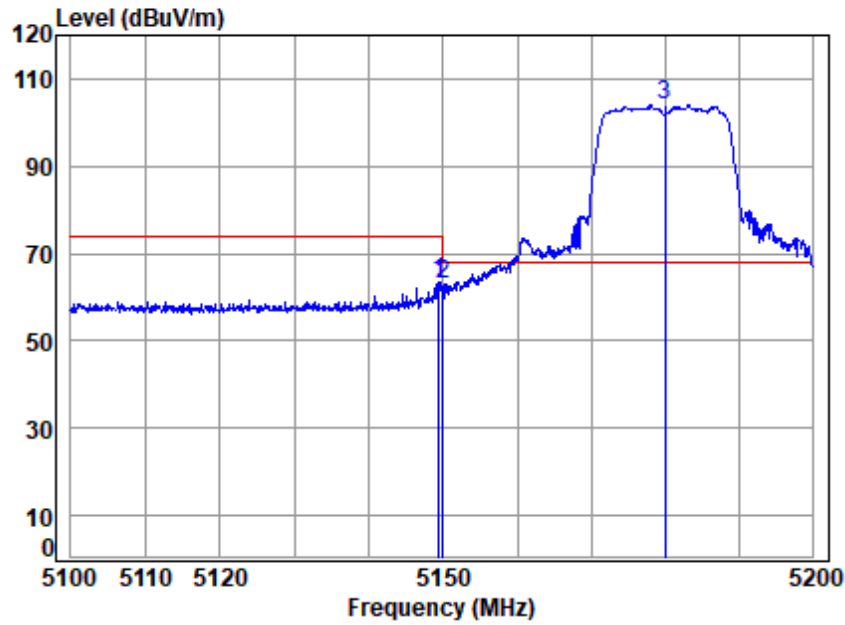


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.257	7.57	34.06	42.32	51.13	50.44	54.00	-3.56 Average
2	5149.980	7.57	34.06	42.32	52.07	51.38	54.00	-2.62 Average
3	5180.000	7.63	34.07	42.32	102.69	102.07	-----	----- Average



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

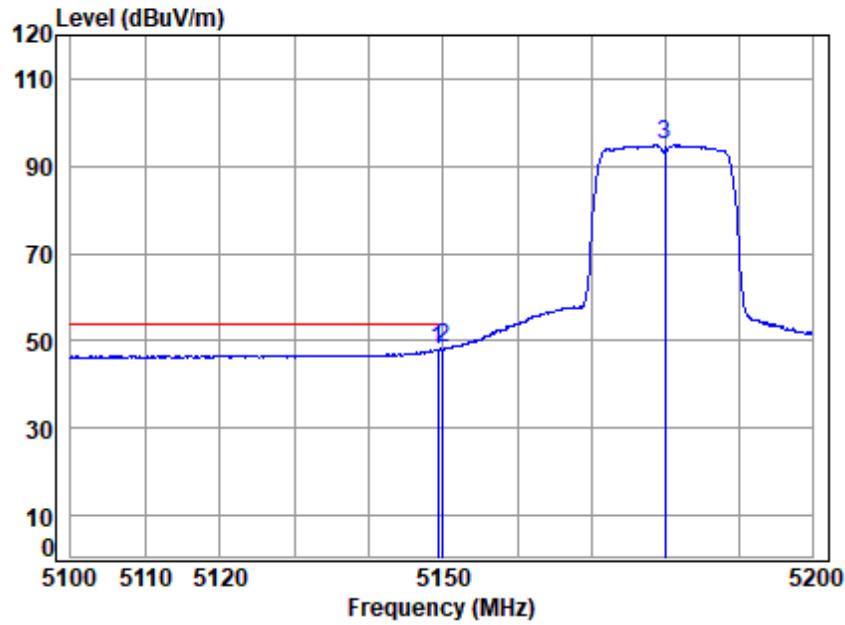


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.357	7.57	34.06	42.32	64.29	63.60	74.00	-10.40 peak
2	5149.980	7.57	34.06	42.32	63.58	62.89	74.00	-11.11 peak
3	5180.000	7.63	34.07	42.32	104.50	103.88	68.20	35.68 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

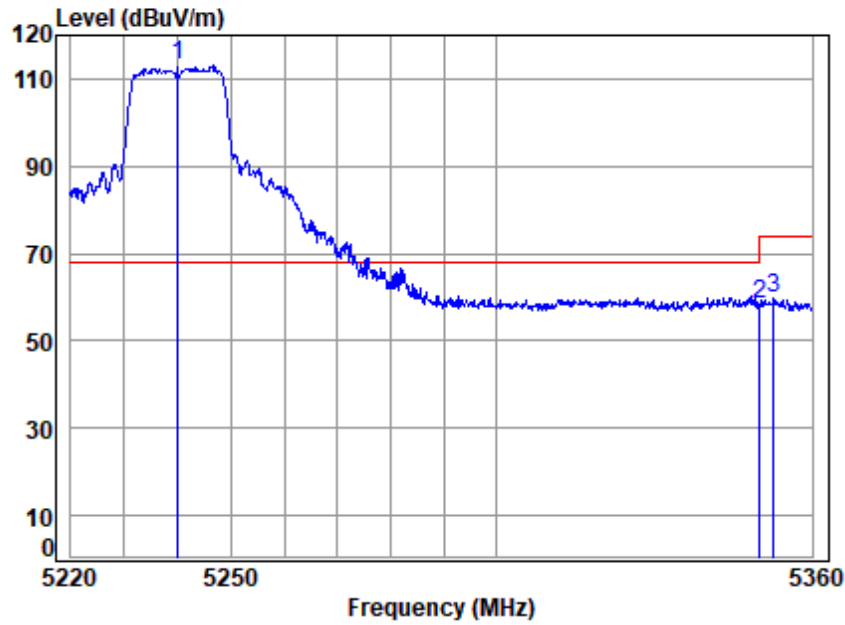


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.257	7.57	34.06	42.32	48.79	48.10	54.00	-5.90 Average
2	5149.980	7.57	34.06	42.32	49.07	48.38	54.00	-5.62 Average
3	5180.000	7.63	34.07	42.32	95.57	94.95	-----	----- Average



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

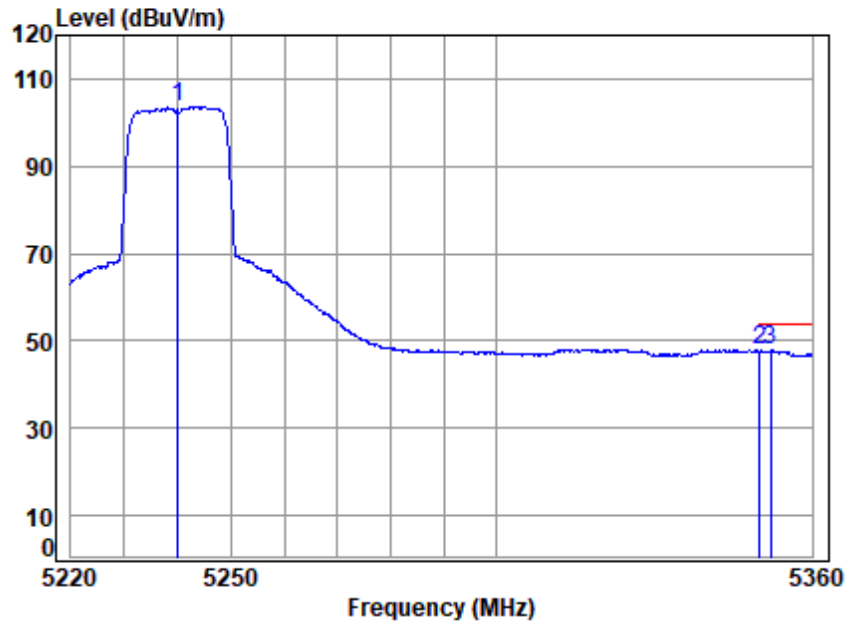


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5240.000	7.73	34.10	42.33	113.84	113.34	68.20	45.14	peak
2 5350.020	7.92	34.14	42.34	58.54	58.26	74.00	-15.74	peak
3 5352.628	7.93	34.14	42.34	60.11	59.84	74.00	-14.16	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



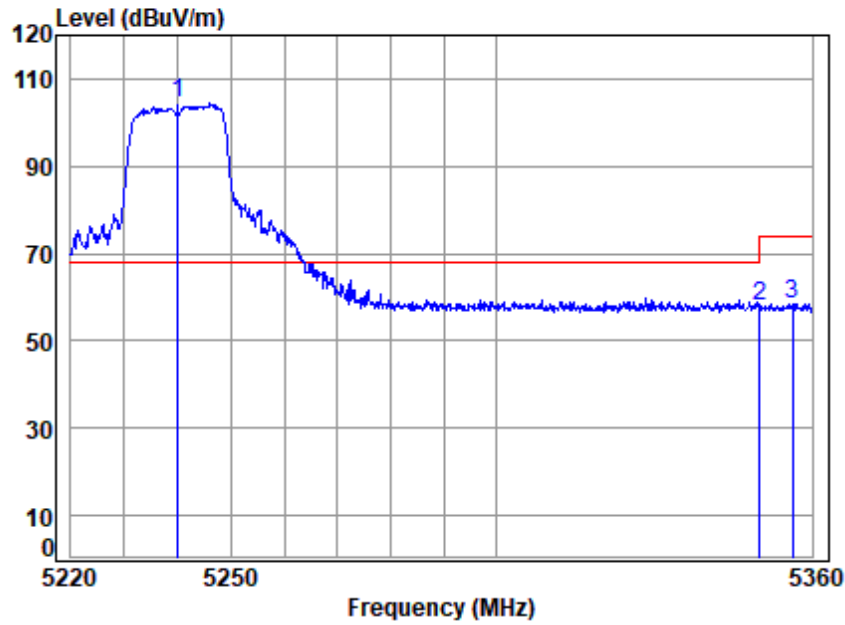
Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5240.000	7.73	34.10	42.33	104.07	103.57	-----	Average
2	5350.020	7.92	34.14	42.34	47.99	47.71	54.00	-6.29 Average
3	5352.062	7.93	34.14	42.34	48.01	47.74	54.00	-6.26 Average



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

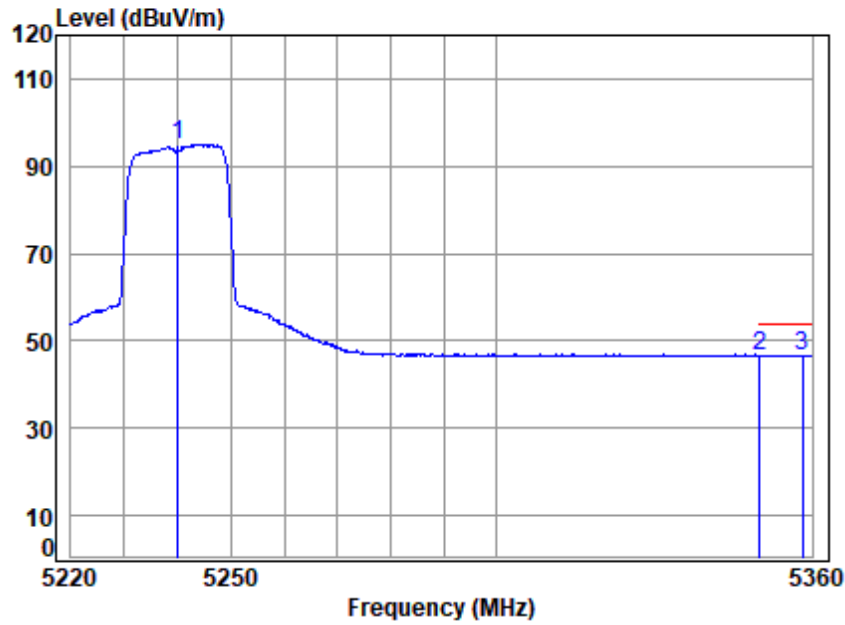


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5240.000	7.73	34.10	42.33	104.79	104.29	68.20	36.09	peak
2 5350.020	7.92	34.14	42.34	58.33	58.05	74.00	-15.95	peak
3 5356.171	7.94	34.14	42.34	58.77	58.51	74.00	-15.49	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	7.73	34.10	42.33	95.40	94.90	-----	Average
2	5350.020	7.92	34.14	42.34	46.93	46.65	54.00	-7.35 Average
3	5358.156	7.94	34.15	42.34	47.01	46.76	54.00	-7.24 Average



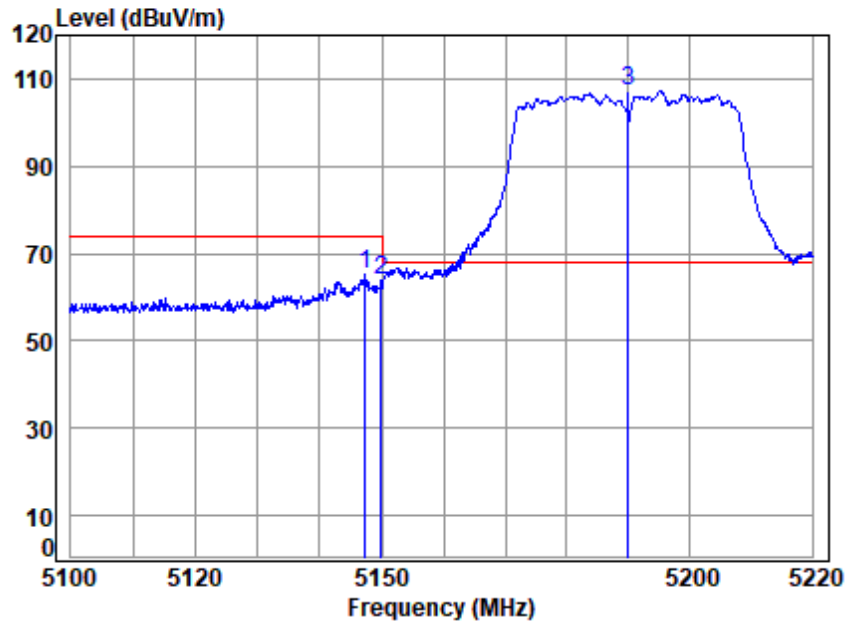
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

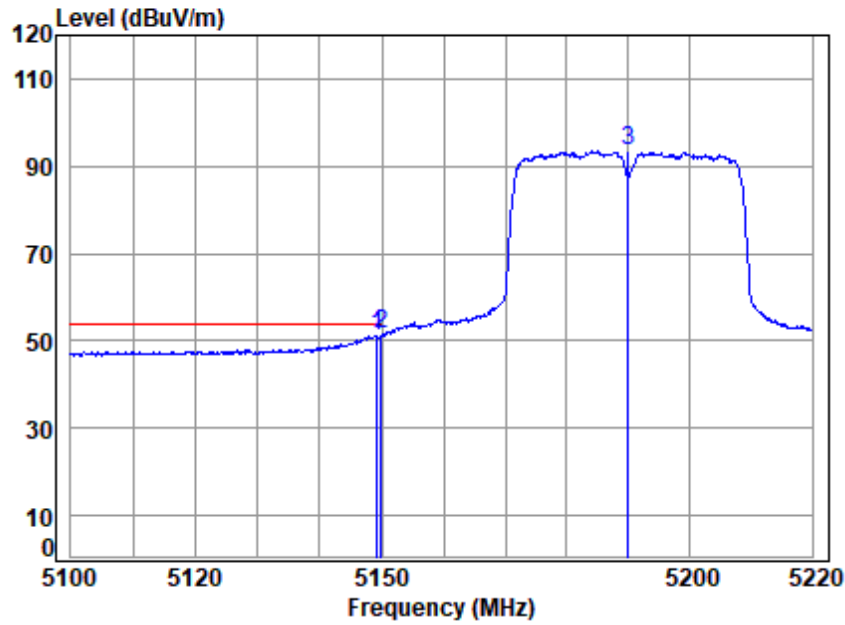


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5147.306	7.57	34.06	42.32	65.93	65.24	74.00	-8.76 peak
2	5149.980	7.57	34.06	42.32	64.40	63.71	74.00	-10.29 peak
3	5190.000	7.64	34.08	42.32	107.94	107.34	68.20	39.14 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

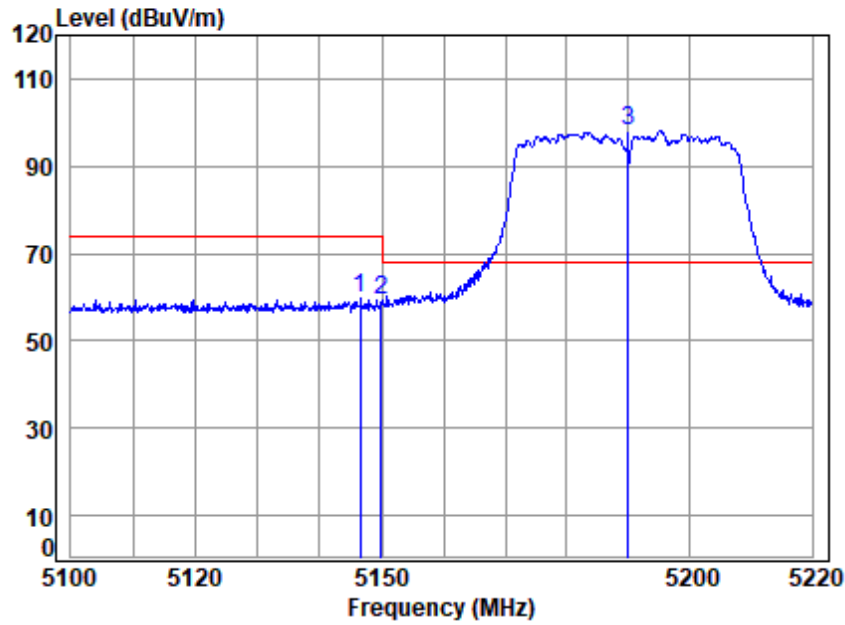


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.342	7.57	34.06	42.32	51.97	51.28	54.00	-2.72 Average
2	5149.980	7.57	34.06	42.32	52.10	51.41	54.00	-2.59 Average
3	5190.000	7.64	34.08	42.32	94.03	93.43	-----	----- Average



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

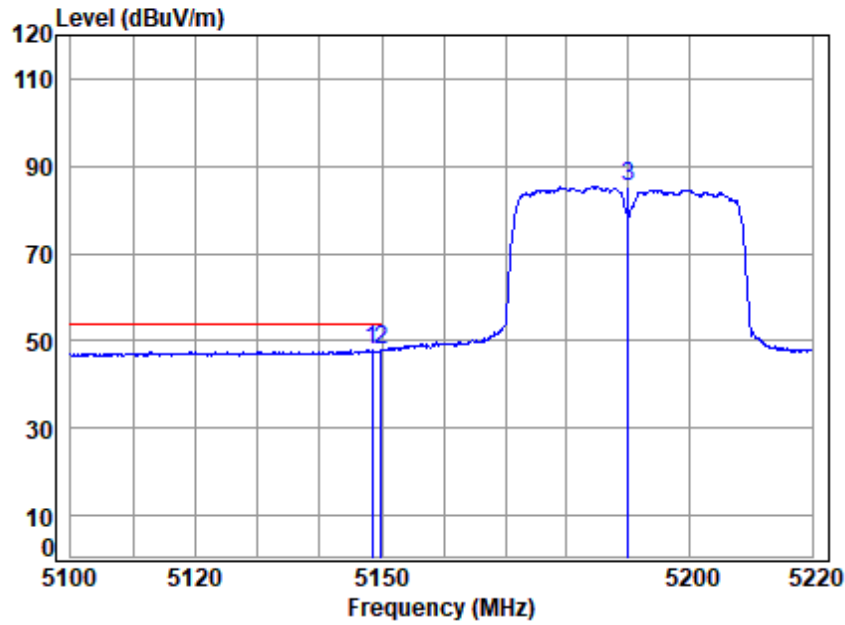


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		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	5146.588	7.57	34.06	42.32	60.30	59.61	74.00	-14.39 peak
2	5149.980	7.57	34.06	42.32	60.16	59.47	74.00	-14.53 peak
3	5190.000	7.64	34.08	42.32	98.72	98.12	68.20	29.92 peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low

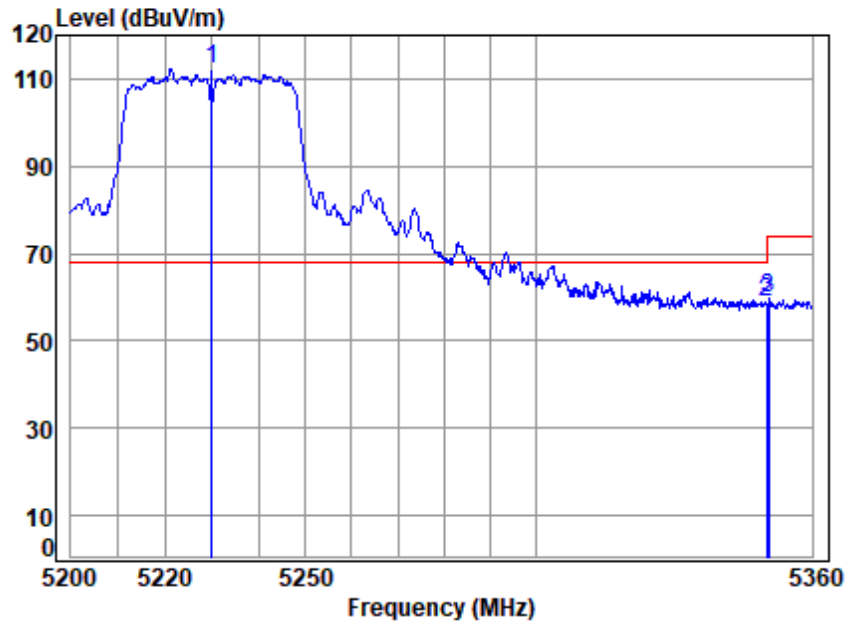


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		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	5148.503	7.57	34.06	42.32	48.80	48.11	54.00	-5.89 Average
2	5149.980	7.57	34.06	42.32	48.64	47.95	54.00	-6.05 Average
3	5190.000	7.64	34.08	42.32	85.93	85.33	-----	----- Average



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

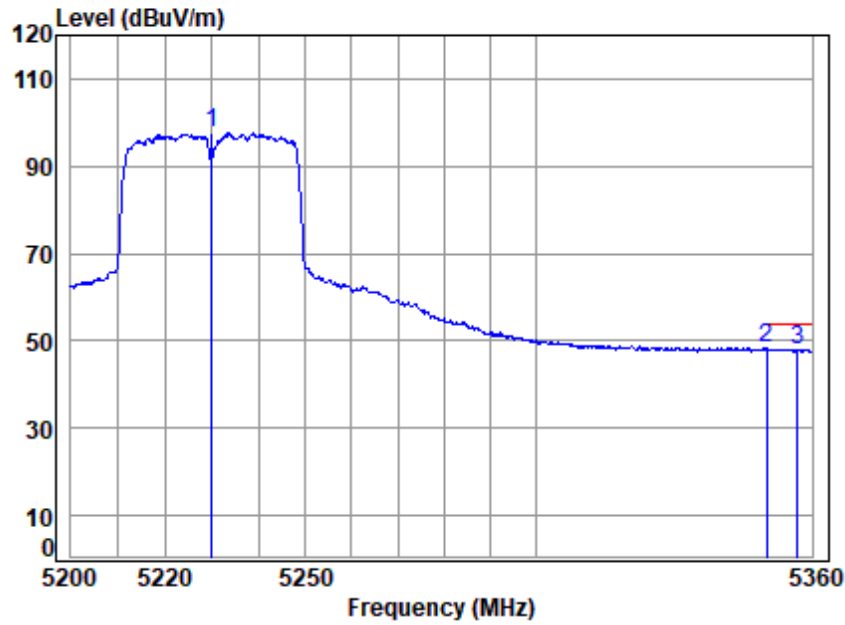


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5230 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5230.000	7.72	34.09	42.32	112.71	112.20	68.20	44.00	peak
2 5350.020	7.92	34.14	42.34	59.05	58.77	74.00	-15.23	peak
3 5350.587	7.93	34.14	42.34	59.96	59.69	74.00	-14.31	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

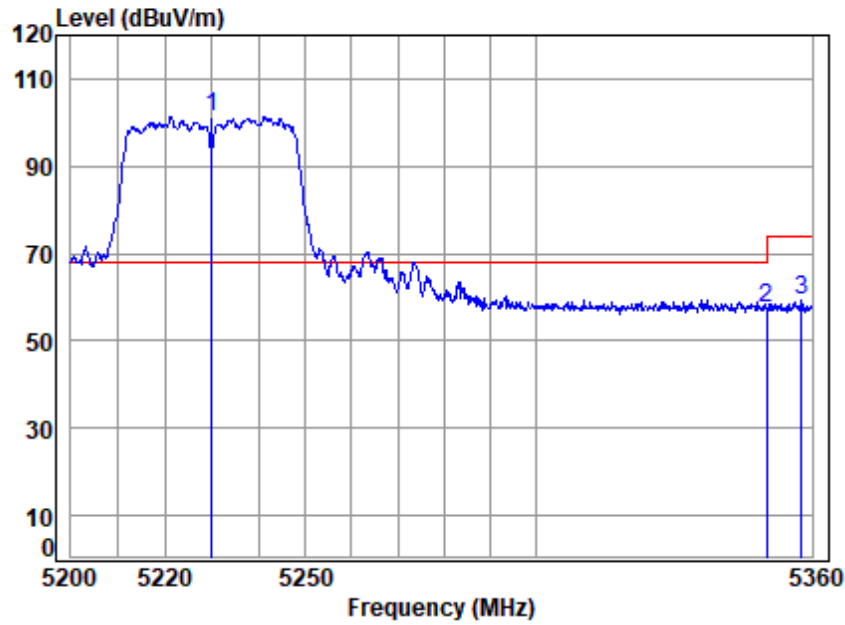


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5230 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5230.000	7.72	34.09	42.32	98.05	97.54	-----	----- Average
2 5350.020	7.92	34.14	42.34	48.55	48.27	54.00	-5.73 Average
3 5356.752	7.94	34.14	42.34	48.38	48.12	54.00	-5.88 Average



Test Mode: 09; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

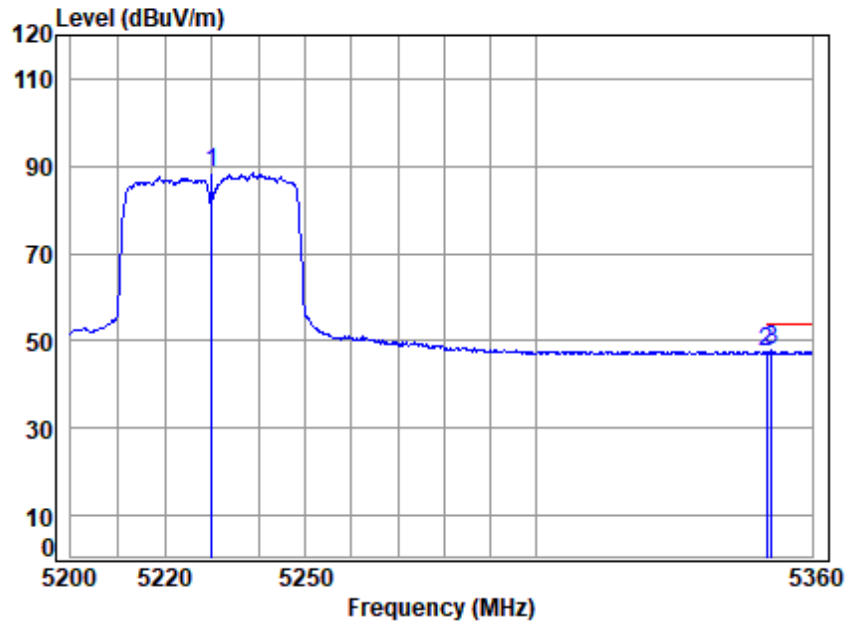


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5230 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 5230.000	7.72	34.09	42.32	101.94	101.43	68.20	33.23	peak
2 5350.020	7.92	34.14	42.34	57.96	57.68	74.00	-16.32	peak
3 5357.727	7.94	34.15	42.34	59.69	59.44	74.00	-14.56	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: High

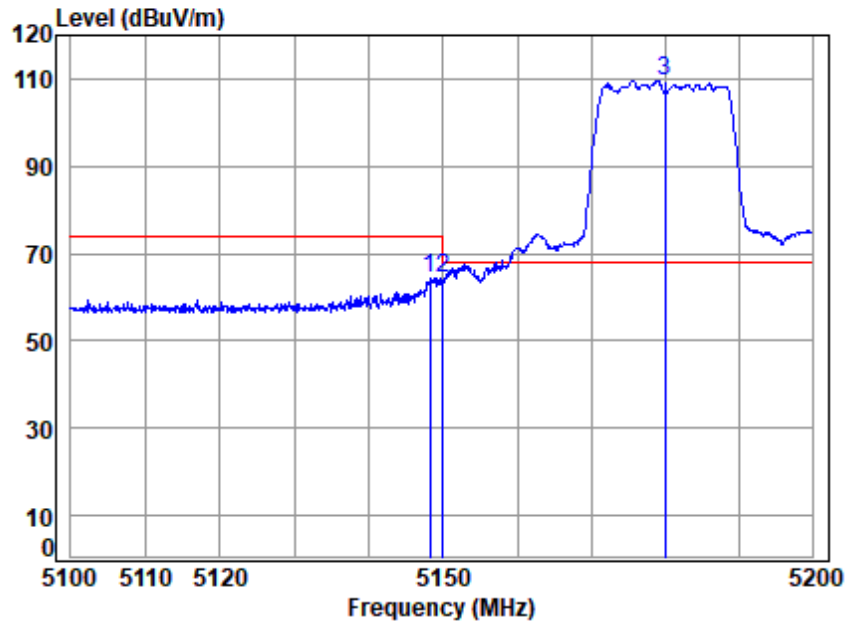


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5230.000	7.72	34.09	42.32	88.93	88.42	-----	Average
2	5350.020	7.92	34.14	42.34	47.59	47.31	54.00	-6.69 Average
3	5351.073	7.93	34.14	42.34	48.09	47.82	54.00	-6.18 Average



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

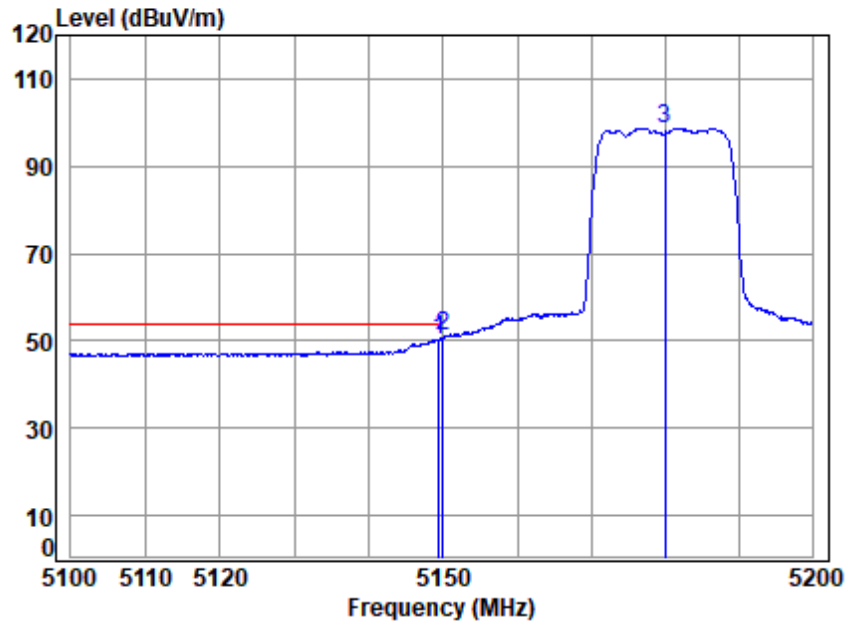


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		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	5148.257	7.57	34.06	42.32	65.06	64.37	74.00	-9.63	peak
2	5149.980	7.57	34.06	42.32	64.87	64.18	74.00	-9.82	peak
3	5180.000	7.63	34.07	42.32	110.21	109.59	68.20	41.39	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

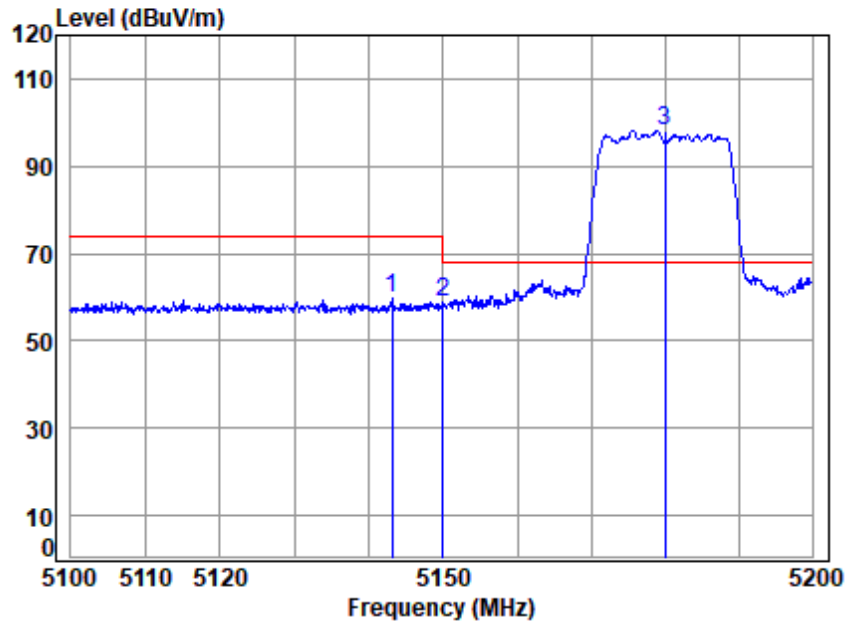


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		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	5149.357	7.57	34.06	42.32	51.03	50.34	54.00	-3.66 Average
2	5149.980	7.57	34.06	42.32	51.90	51.21	54.00	-2.79 Average
3	5180.000	7.63	34.07	42.32	99.37	98.75	-----	----- Average



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

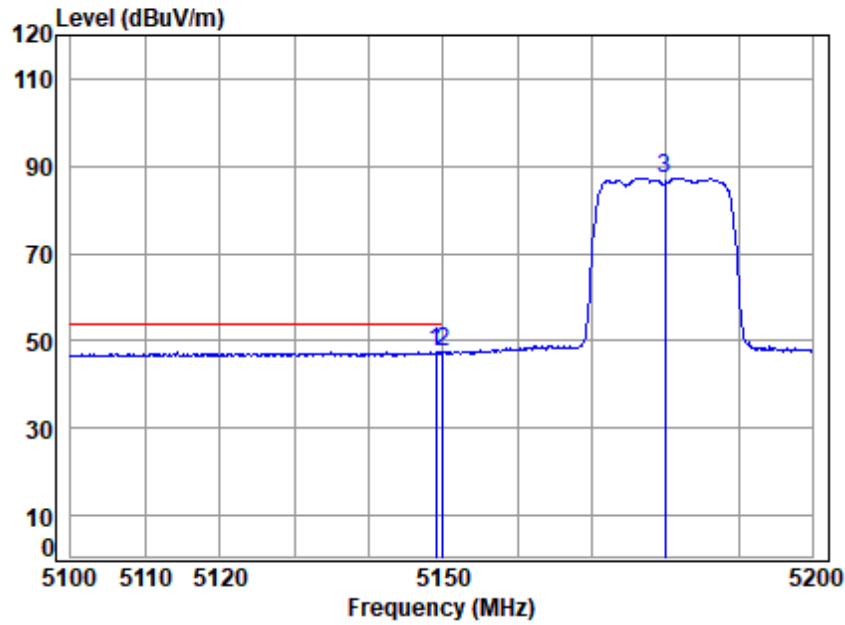


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

	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 5143.062	7.56	34.06	42.32	60.62	59.92	74.00	-14.08 peak
2 5149.980	7.57	34.06	42.32	59.55	58.86	74.00	-15.14 peak
3 . 5180.000	7.63	34.07	42.32	98.65	98.03	68.20	29.83 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

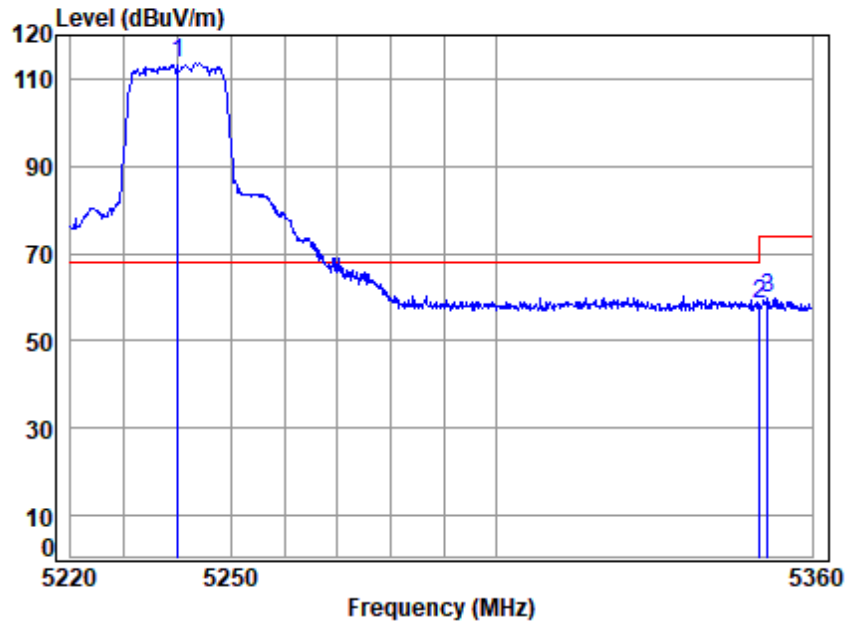


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		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	5149.057	7.57	34.06	42.32	48.27	47.58	54.00	-6.42 Average
2	5149.980	7.57	34.06	42.32	48.35	47.66	54.00	-6.34 Average
3	5180.000	7.63	34.07	42.32	87.96	87.34	-----	----- Average



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High

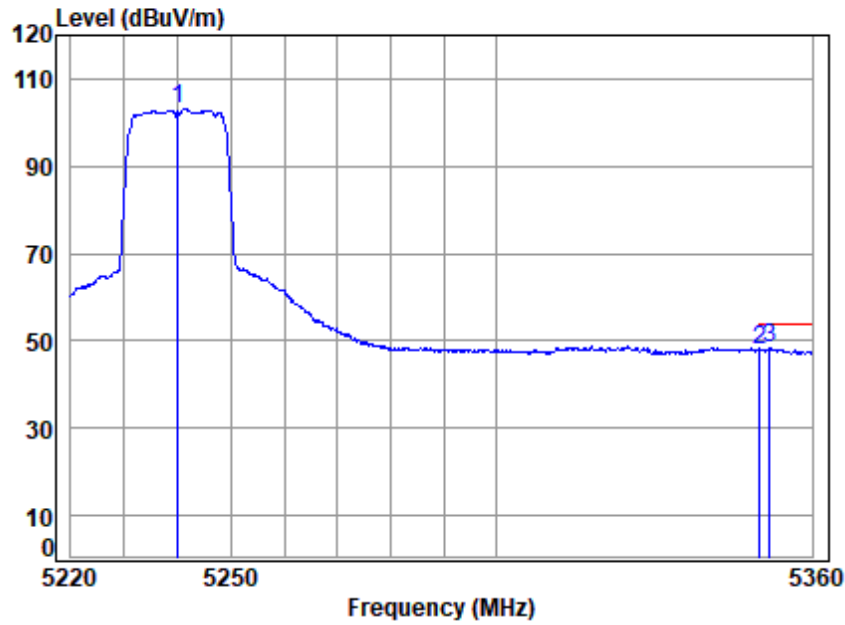


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

	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 . 5240.000	7.73	34.10	42.33	114.08	113.58	68.20	45.38	peak
2 5350.020	7.92	34.14	42.34	58.80	58.52	74.00	-15.48	peak
3 5351.495	7.93	34.14	42.34	60.25	59.98	74.00	-14.02	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

		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	5240.000	7.73	34.10	42.33	103.52	103.02	-----	Average
2	5350.020	7.92	34.14	42.34	48.35	48.07	54.00	-5.93 Average
3	5351.920	7.93	34.14	42.34	48.48	48.21	54.00	-5.79 Average

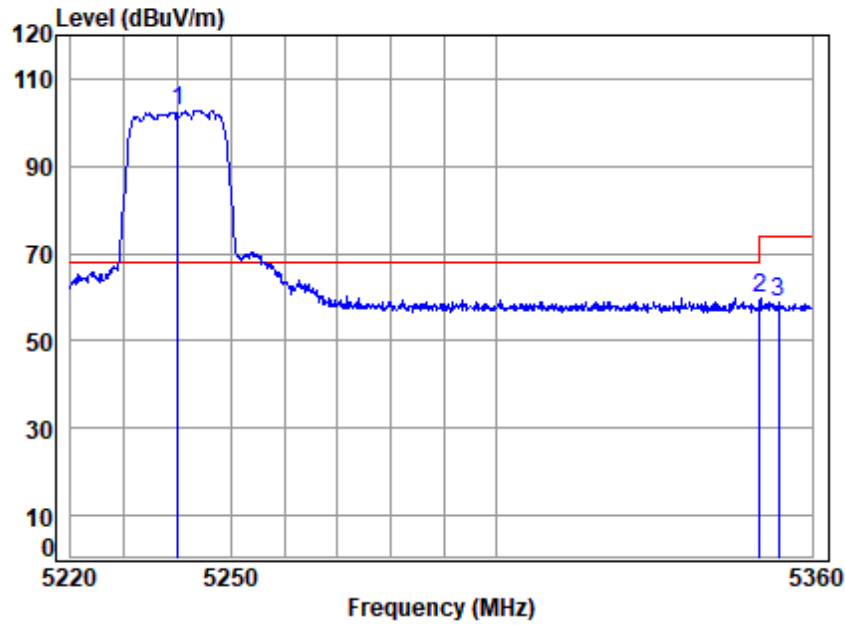


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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

	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 . 5240.000	7.73	34.10	42.33	103.37	102.87	68.20	34.67	peak
2 5350.020	7.92	34.14	42.34	60.08	59.80	74.00	-14.20	peak
3 5353.620	7.93	34.14	42.34	59.15	58.88	74.00	-15.12	peak

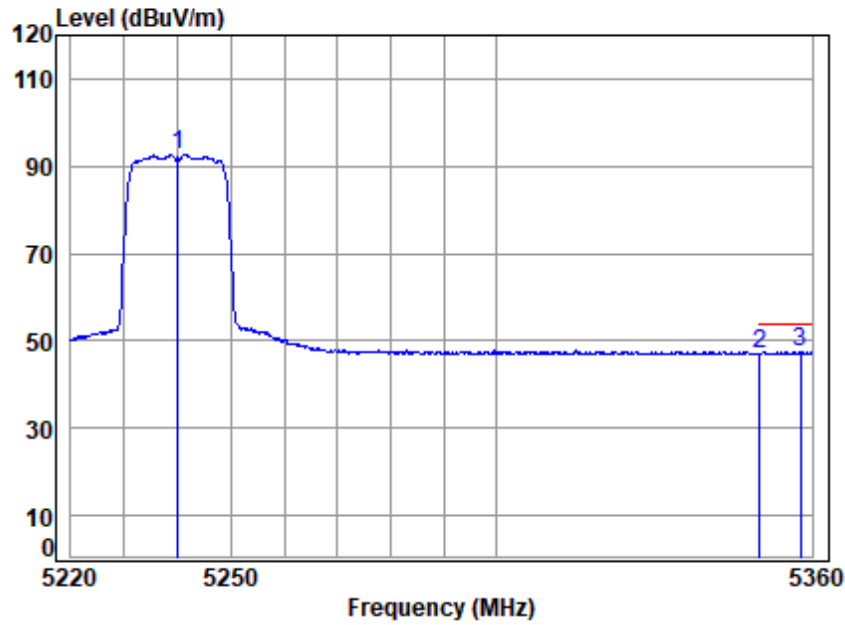


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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5240 Band edge
: 5G WIFI 11AC20

		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	5240.000	7.73	34.10	42.33	93.10	92.60	-----	----- Average
2	5350.020	7.92	34.14	42.34	47.47	47.19	54.00	-6.81 Average
3	5357.730	7.94	34.15	42.34	47.91	47.66	54.00	-6.34 Average

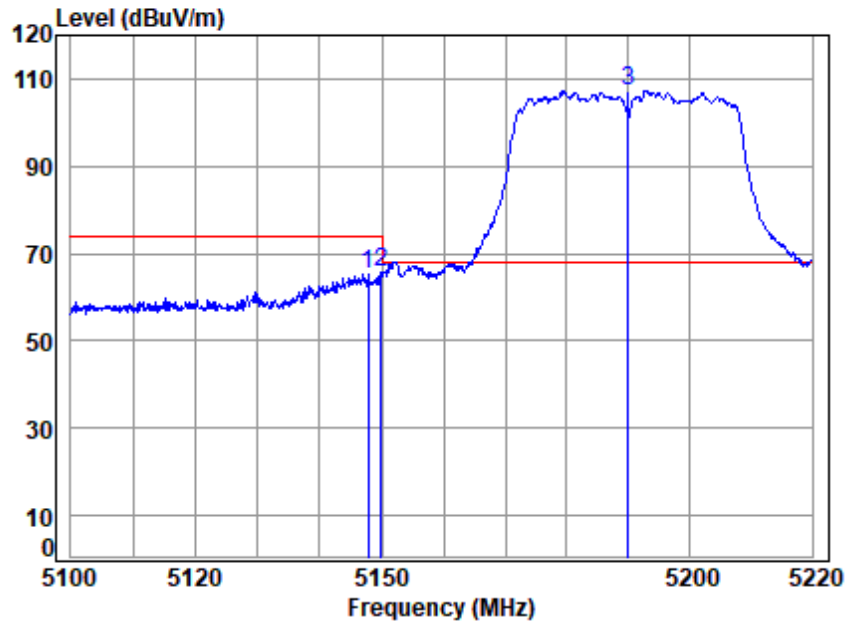


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Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

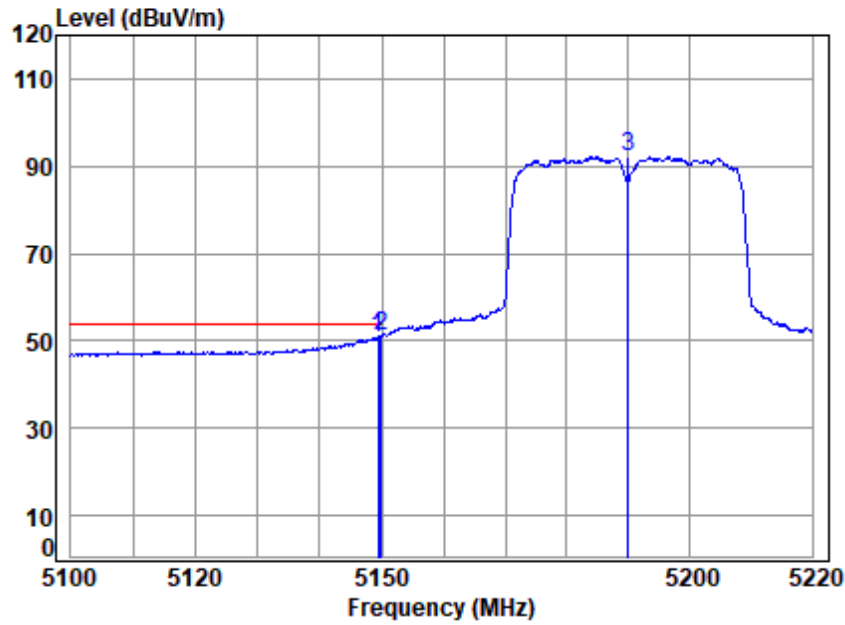


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		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	5147.785	7.57	34.06	42.32	65.82	65.13	74.00	-8.87 peak
2	5149.980	7.57	34.06	42.32	66.42	65.73	74.00	-8.27 peak
3	5190.000	7.64	34.08	42.32	108.03	107.43	68.20	39.23 peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

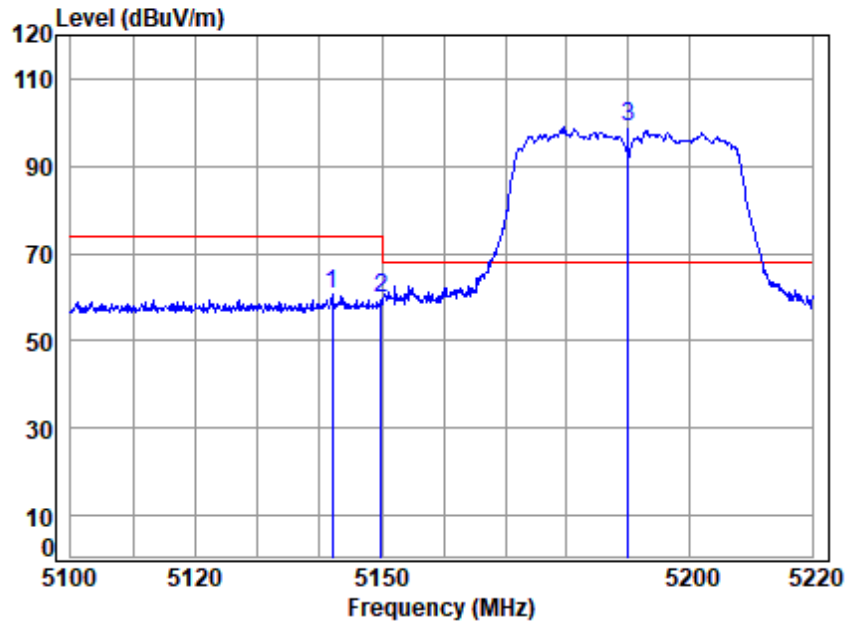


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5149.461	7.57	34.06	42.32	51.37	50.68	54.00	-3.32 Average
2	5149.980	7.57	34.06	42.32	51.95	51.26	54.00	-2.74 Average
3	5190.000	7.64	34.08	42.32	92.91	92.31	-----	----- Average



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

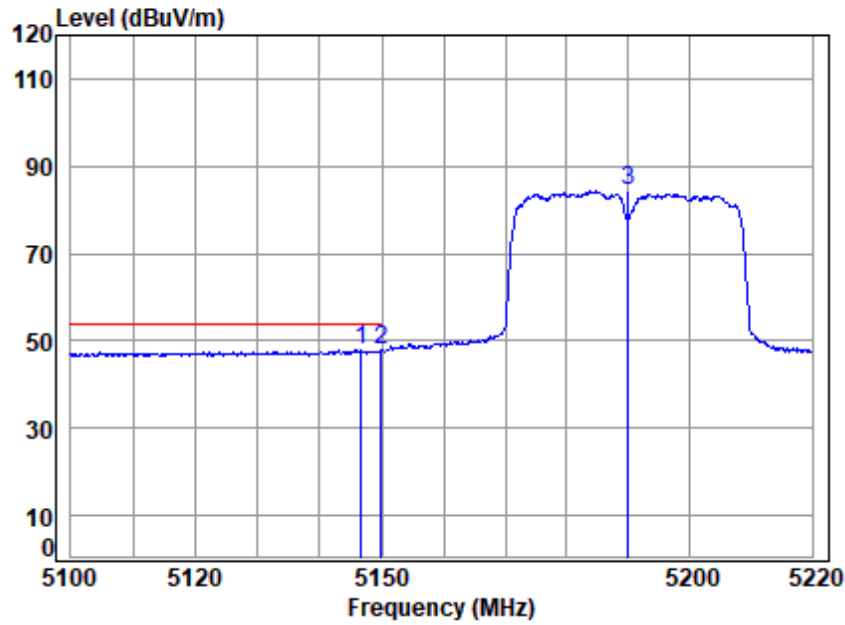


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

	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 5142.042	7.56	34.06	42.32	61.50	60.80	74.00	-13.20 peak
2 5149.980	7.57	34.06	42.32	60.37	59.68	74.00	-14.32 peak
3 . 5190.000	7.64	34.08	42.32	99.51	98.91	68.20	30.71 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

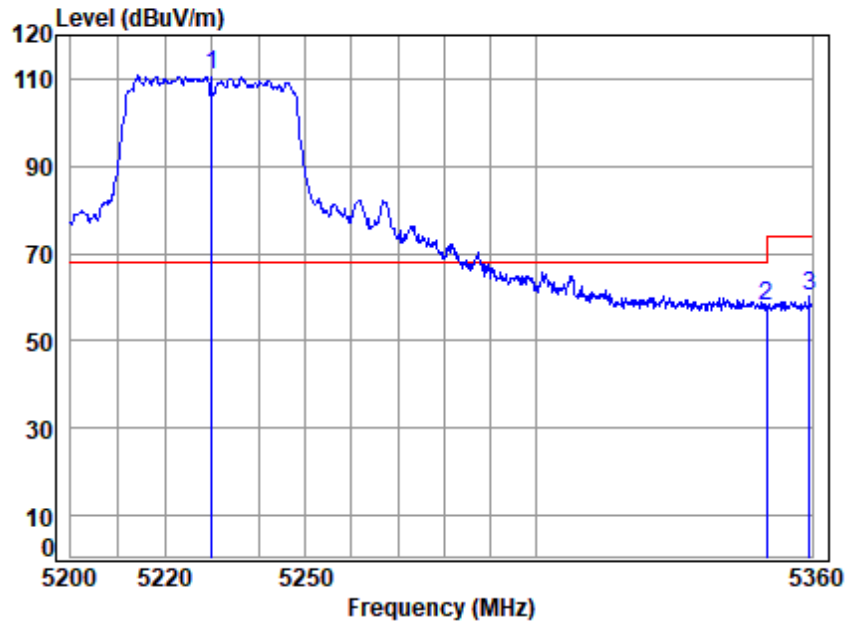


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		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	5146.708	7.57	34.06	42.32	48.50	47.81	54.00	-6.19 Average
2	5149.980	7.57	34.06	42.32	48.67	47.98	54.00	-6.02 Average
3	5190.000	7.64	34.08	42.32	84.97	84.37	-----	----- Average



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

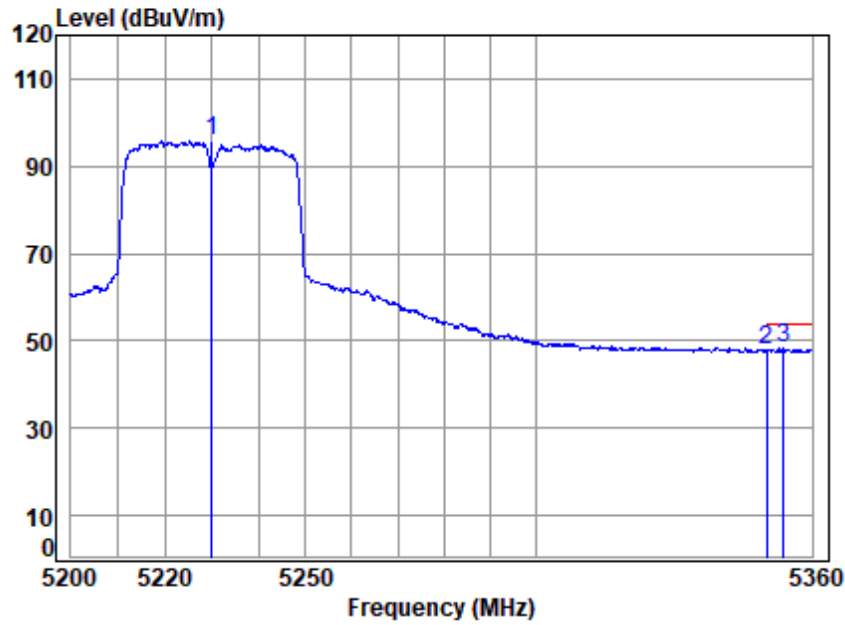


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

	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 . 5230.000	7.72	34.09	42.32	111.20	110.69	68.20	42.49	peak
2 5350.020	7.92	34.14	42.34	58.20	57.92	74.00	-16.08	peak
3 5359.350	7.94	34.15	42.34	60.53	60.28	74.00	-13.72	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

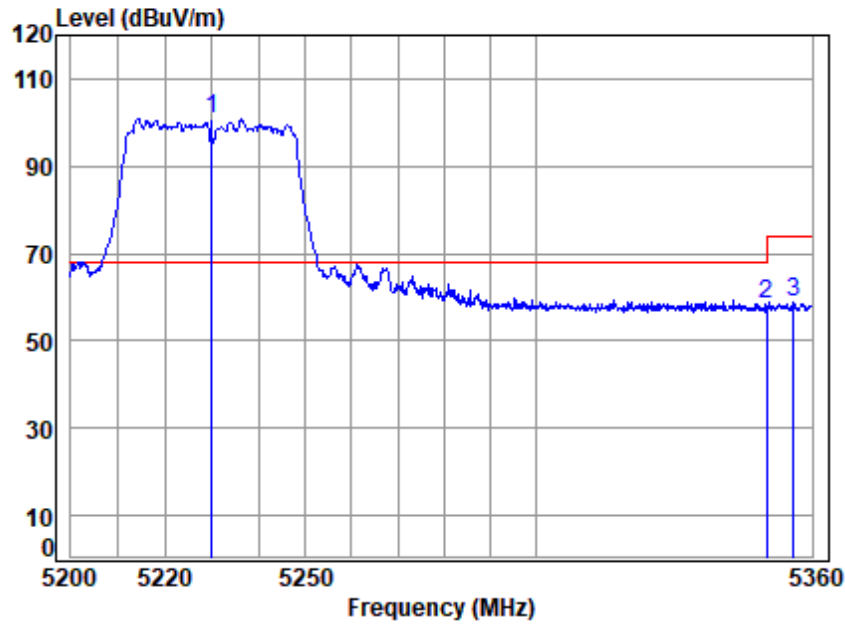


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		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	5230.000	7.72	34.09	42.32	96.25	95.74	-----	----- Average
2	5350.020	7.92	34.14	42.34	48.09	47.81	54.00	-6.19 Average
3	5353.669	7.93	34.14	42.34	48.54	48.27	54.00	-5.73 Average



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

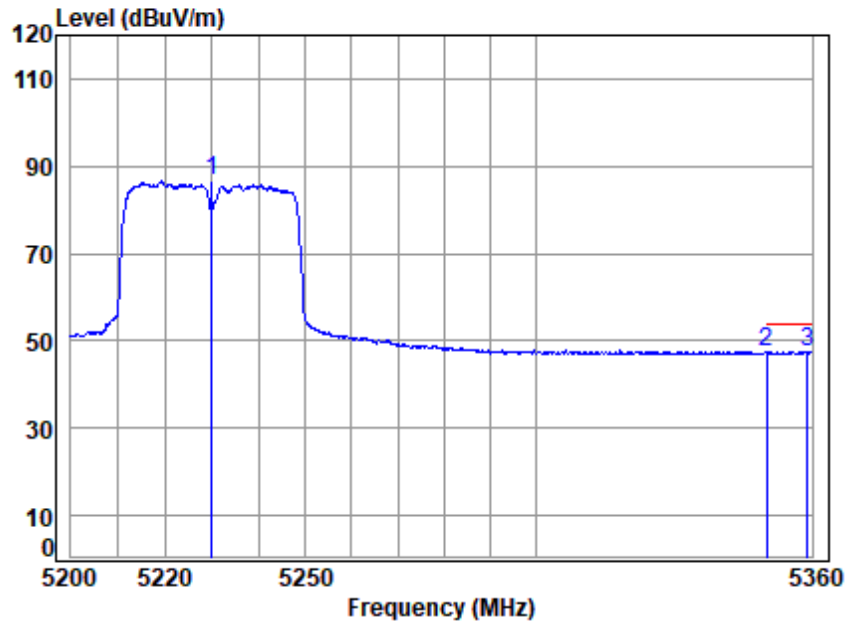


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

	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 . 5230.000	7.72	34.09	42.32	101.44	100.93	68.20	32.73	peak
2 5350.020	7.92	34.14	42.34	58.89	58.61	74.00	-15.39	peak
3 5355.940	7.93	34.14	42.34	59.13	58.86	74.00	-15.14	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

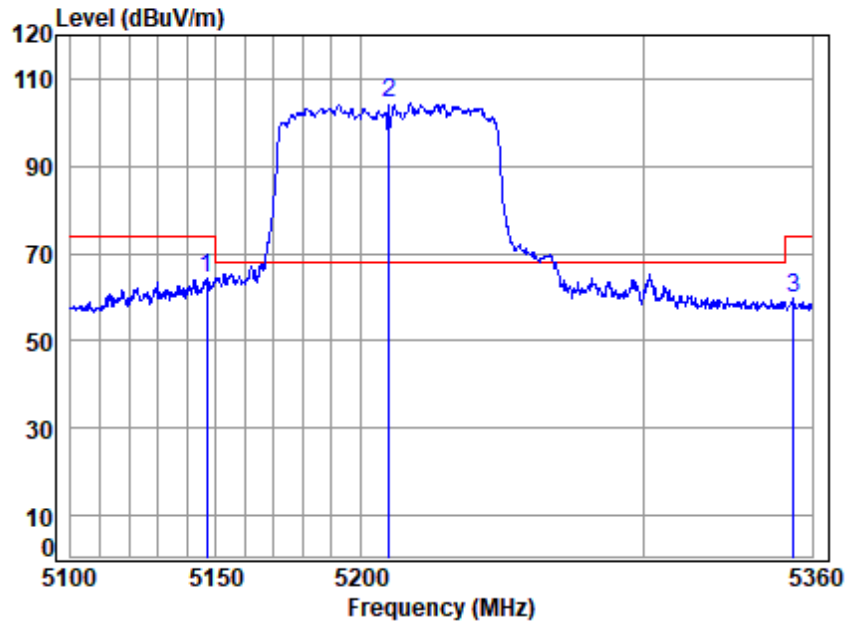


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5230 Band edge
: 5G WIFI 11AC40

		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	5230.000	7.72	34.09	42.32	86.99	86.48	-----	Average
2	5350.020	7.92	34.14	42.34	47.54	47.26	54.00	-6.74 Average
3	5359.025	7.94	34.15	42.34	47.67	47.42	54.00	-6.58 Average



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

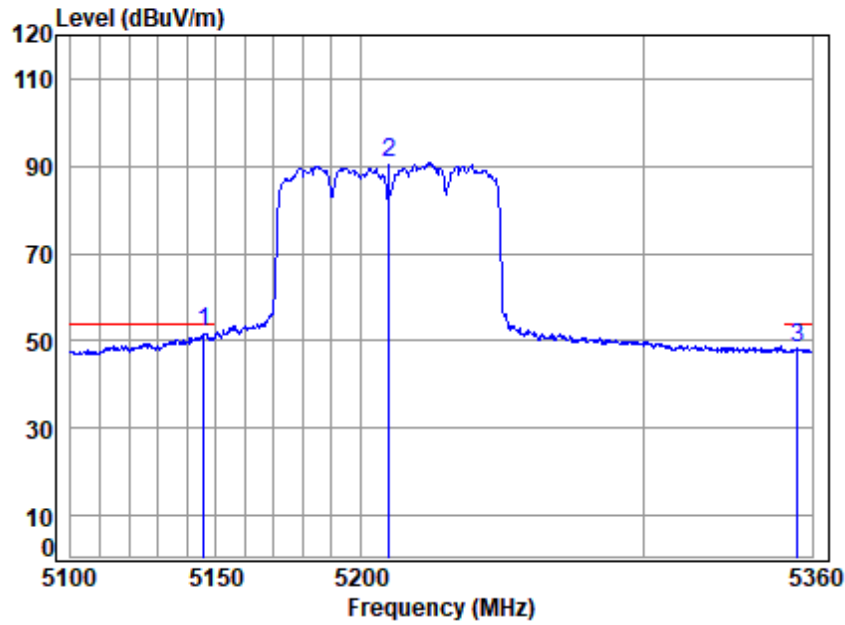


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		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	5146.875	7.57	34.06	42.32	65.17	64.48	74.00	-9.52	peak
2	5210.000	7.68	34.09	42.32	104.94	104.39	68.20	36.19	peak
3	5353.341	7.93	34.14	42.34	60.03	59.76	74.00	-14.24	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

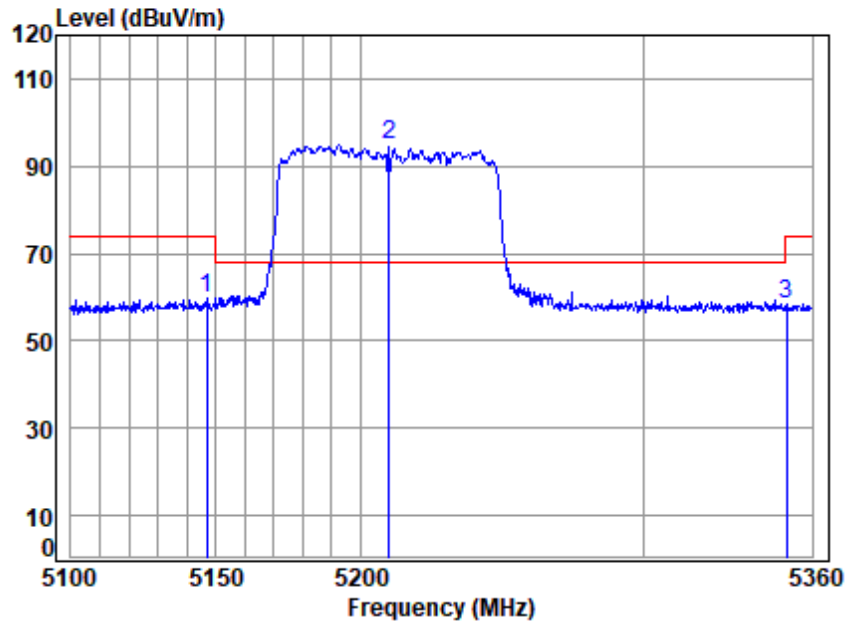


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		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	5145.851	7.57	34.06	42.32	52.63	51.94	54.00	-2.06	Average
2	5210.000	7.68	34.09	42.32	91.20	90.65	-----	-----	Average
3	5354.672	7.93	34.14	42.34	48.47	48.20	54.00	-5.80	Average



Test Mode: 09; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

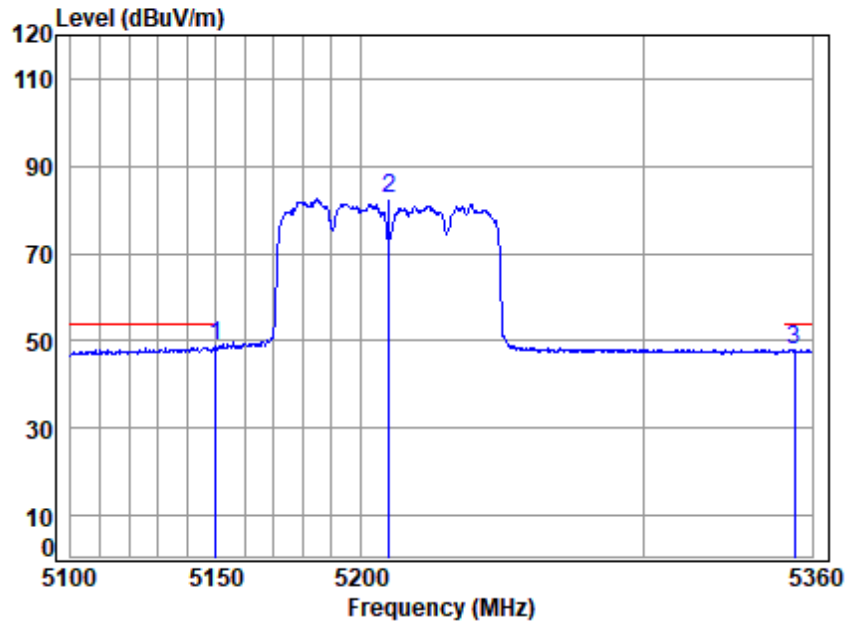


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

	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 5146.875	7.57	34.06	42.32	60.57	59.88	74.00	-14.12 peak
2 5210.000	7.68	34.09	42.32	95.38	94.83	68.20	26.63 peak
3 5350.946	7.93	34.14	42.34	58.76	58.49	74.00	-15.51 peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

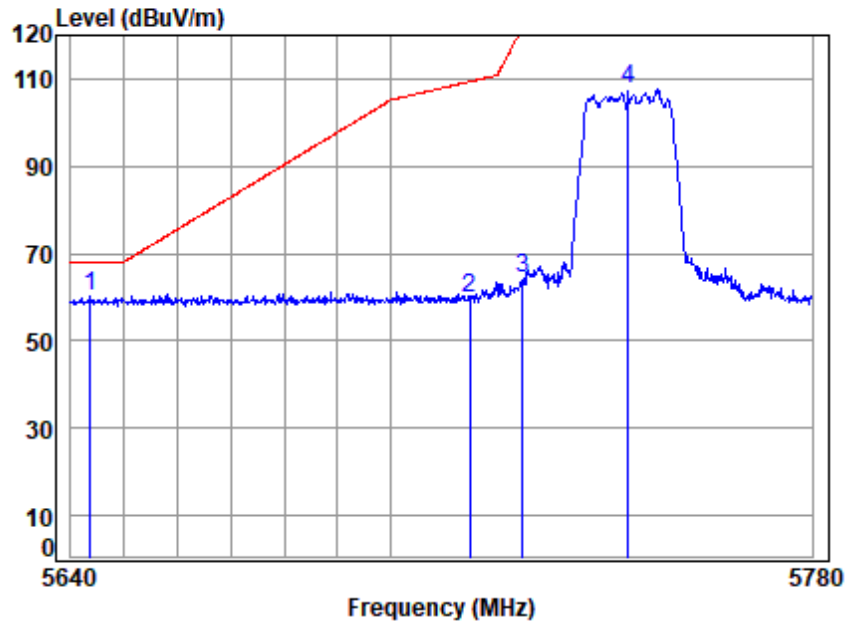


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5149.947	7.57	34.06	42.32	49.31	48.62	54.00	-5.38 Average
2	5210.000	7.68	34.09	42.32	82.93	82.38	-----	----- Average
3	5353.607	7.93	34.14	42.34	48.31	48.04	54.00	-5.96 Average



Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

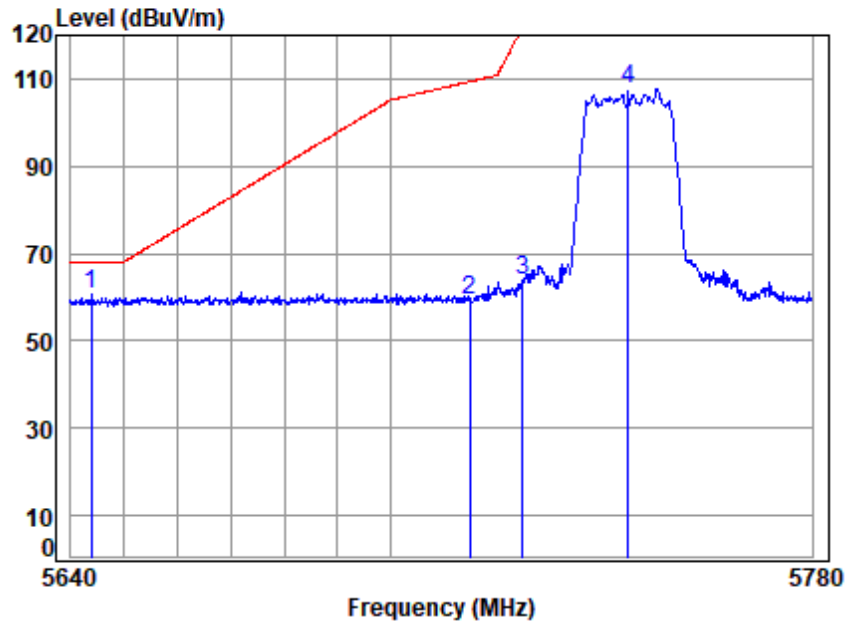


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5745 Band edge
Note : 5G WIFI 11A

		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	5643.735	8.20	34.32	42.37	59.93	60.08	68.20	-8.12	peak
2	5715.000	8.22	34.38	42.37	59.69	59.92	109.40	-49.48	peak
3	5725.000	8.22	34.38	42.37	64.32	64.55	122.20	-57.65	peak
4	5745.000	8.22	34.40	42.38	107.30	107.54	-----	-----	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

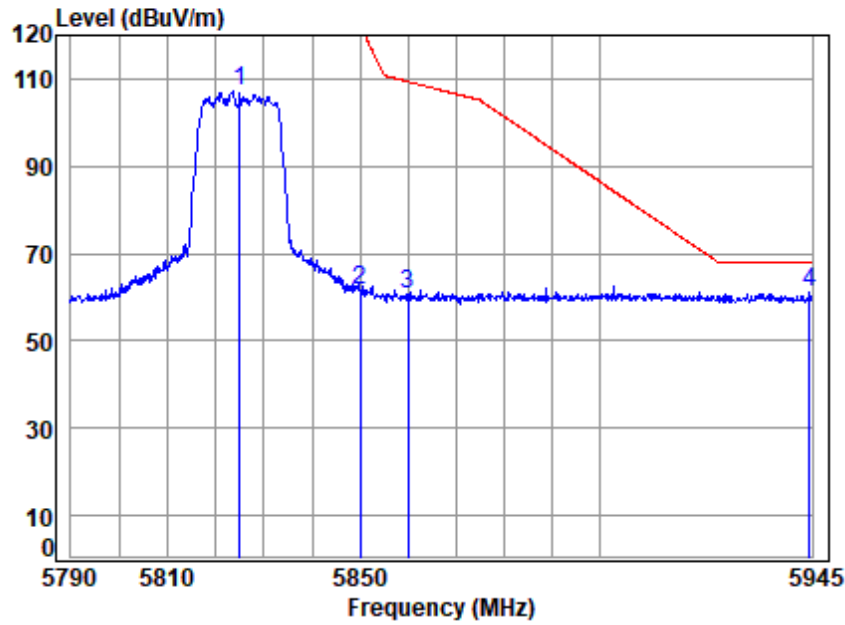


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5745 Band edge
Note : 5G WIFI 11A

		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	5643.874	8.20	34.32	42.37	60.50	60.65	68.20	-7.55	peak
2	5715.000	8.22	34.38	42.37	59.12	59.35	109.40	-50.05	peak
3	5725.000	8.22	34.38	42.37	63.69	63.92	122.20	-58.28	peak
4	5745.000	8.22	34.40	42.38	107.36	107.60	-----	-----	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

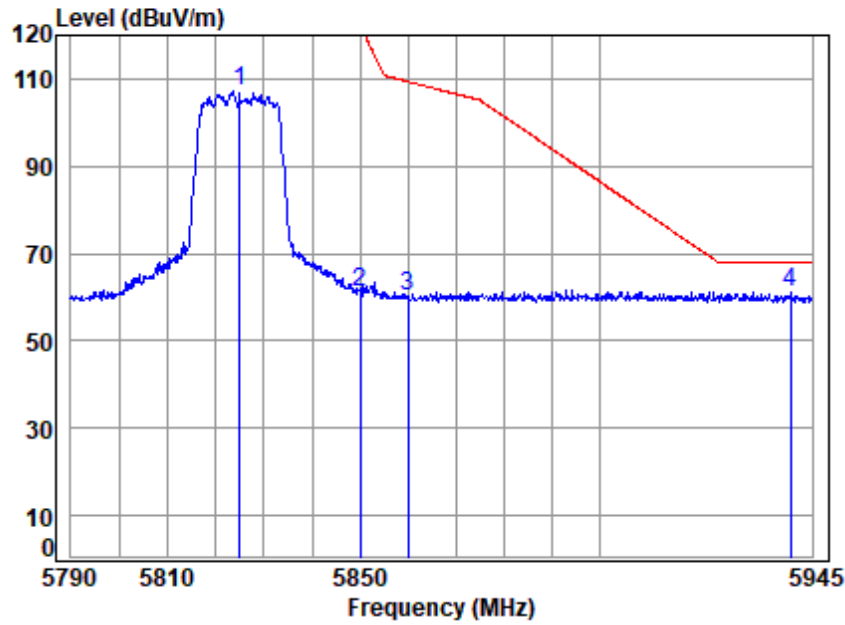


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5825 Band edge
Note : 5G WIFI 11A

		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	5825.000	8.23	34.46	42.38	106.81	107.12	-----	-----	peak
2	5850.000	8.24	34.48	42.39	61.49	61.82	122.20	-60.38	peak
3	5860.000	8.24	34.49	42.39	60.36	60.70	109.40	-48.70	peak
4	5944.529	8.25	34.56	42.39	60.90	61.32	68.20	-6.88	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

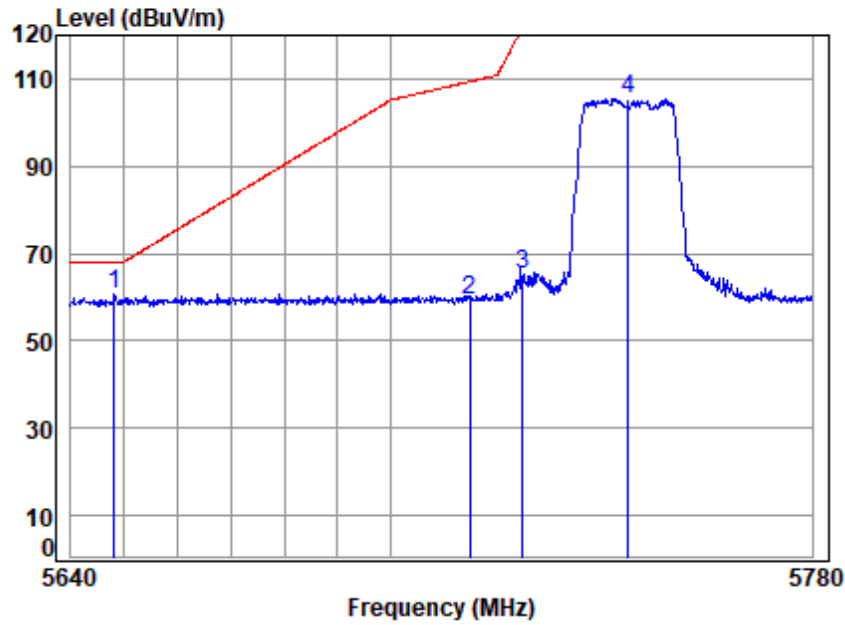


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5825 Band edge
Note : 5G WIFI 11A

		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	5825.000	8.23	34.46	42.38	106.74	107.05	-----	-----	peak
2	5850.000	8.24	34.48	42.39	60.66	60.99	122.20	-61.21	peak
3	5860.000	8.24	34.49	42.39	60.02	60.36	109.40	-49.04	peak
4	5940.447	8.25	34.55	42.39	60.84	61.25	68.20	-6.95	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

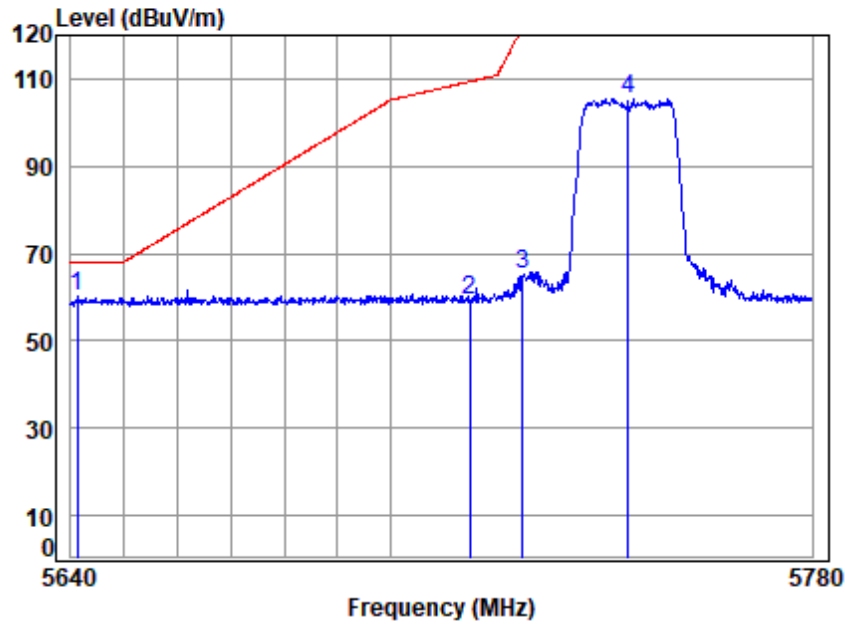


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5745 Band edge
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5648.026	8.20	34.32	42.37	60.46	60.61	68.20	-7.59 peak
2	5715.000	8.22	34.38	42.37	59.11	59.34	109.40	-50.06 peak
3	5725.000	8.22	34.38	42.37	64.98	65.21	122.20	-56.99 peak
4	5745.000	8.22	34.40	42.38	105.25	105.49	-----	----- peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

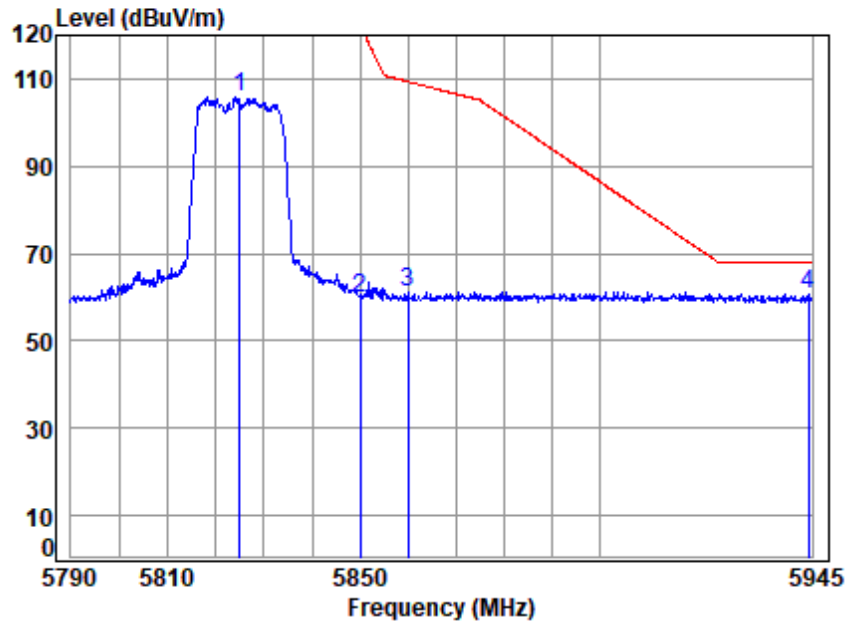


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5745 Band edge
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5641.245	8.20	34.32	42.37	59.99	60.14	68.20	-8.06 peak
2	5715.000	8.22	34.38	42.37	58.99	59.22	109.40	-50.18 peak
3	5725.000	8.22	34.38	42.37	65.20	65.43	122.20	-56.77 peak
4	5745.000	8.22	34.40	42.38	105.09	105.33	-----	----- peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

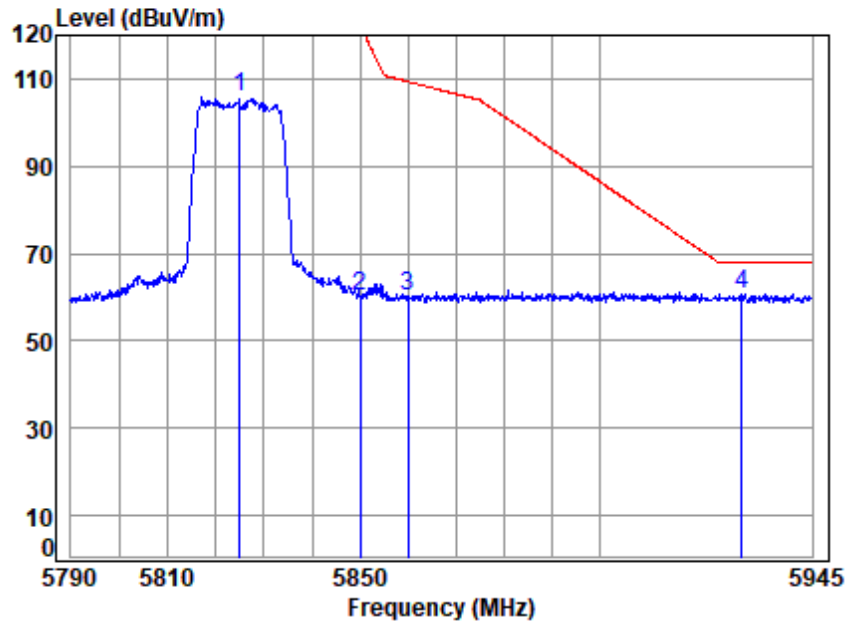


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5825 Band edge
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.46	42.38	105.53	105.84	-----	-----	peak
2	5850.000	8.24	34.48	42.39	59.45	59.78	122.20	-62.42	peak
3	5860.000	8.24	34.49	42.39	60.61	60.95	109.40	-48.45	peak
4	5944.215	8.25	34.56	42.39	60.19	60.61	68.20	-7.59	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

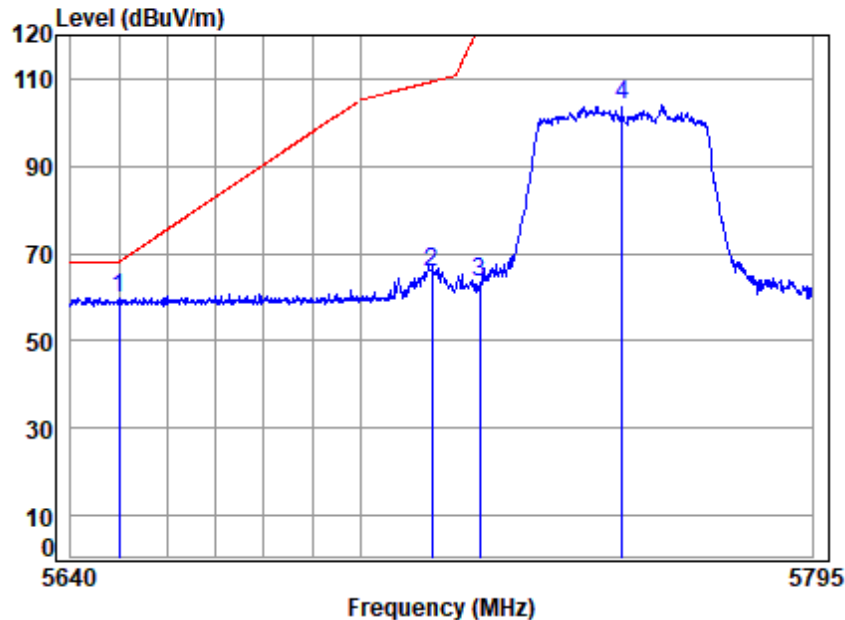


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5825 Band edge
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	8.23	34.46	42.38	105.36	105.67	-----	----- peak
2	5850.000	8.24	34.48	42.39	59.97	60.30	122.20	-61.90 peak
3	5860.000	8.24	34.49	42.39	59.84	60.18	109.40	-49.22 peak
4	5930.098	8.25	34.55	42.39	60.37	60.78	68.20	-7.42 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

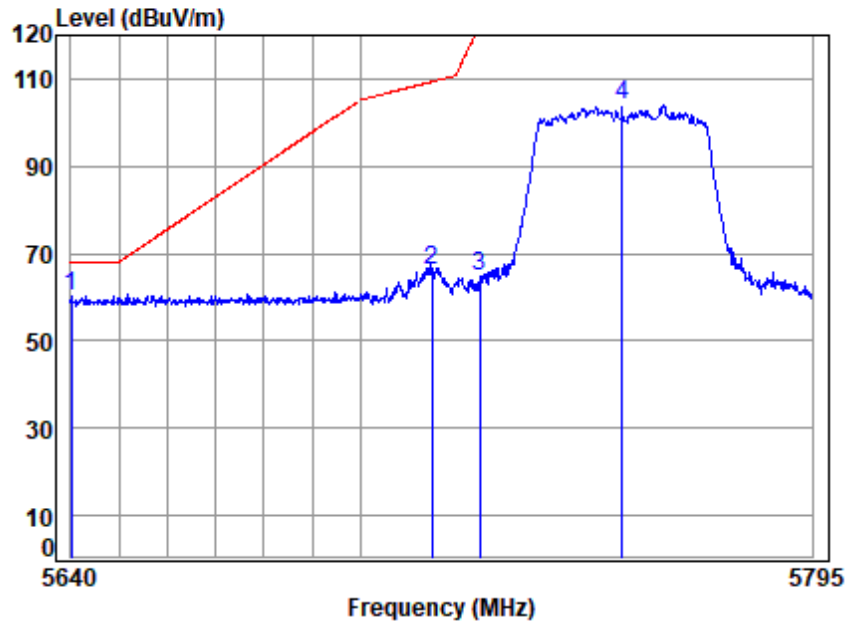


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5755 Band edge
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5649.948	8.20	34.32	42.37	59.66	59.81	68.20	-8.39 peak
2	5715.000	8.22	34.38	42.37	65.46	65.69	109.40	-43.71 peak
3	5725.000	8.22	34.38	42.37	63.34	63.57	122.20	-58.63 peak
4	5755.000	8.22	34.41	42.38	103.83	104.08	-----	----- peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

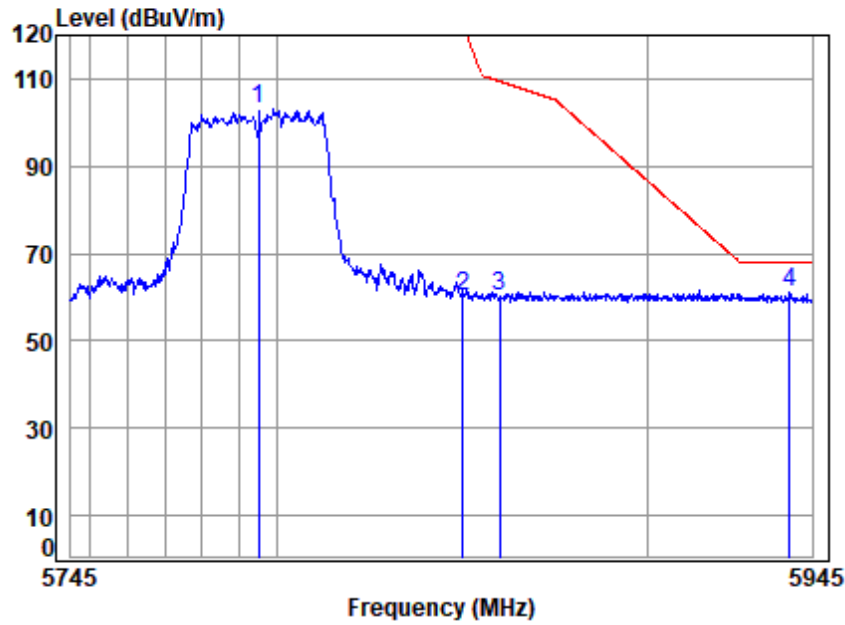


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5755 Band edge
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5640.153	8.20	34.32	42.37	60.08	60.23	68.20	-7.97 peak
2	5715.000	8.22	34.38	42.37	66.12	66.35	109.40	-43.05 peak
3	5725.000	8.22	34.38	42.37	64.45	64.68	122.20	-57.52 peak
4	5755.000	8.22	34.41	42.38	103.60	103.85	-----	----- peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

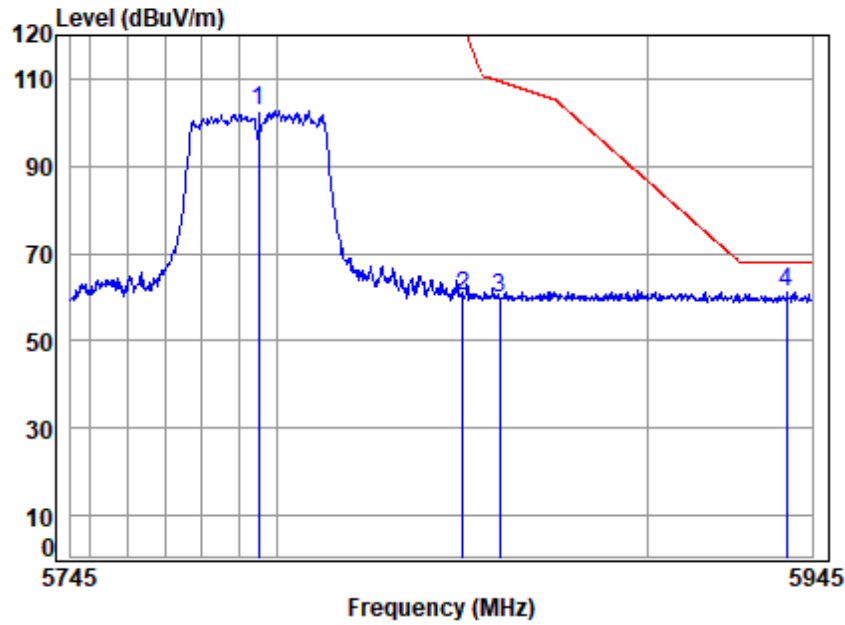


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5795 Band edge
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	8.23	34.44	42.38	102.63	102.92	-----	----- peak
2	5850.000	8.24	34.48	42.39	60.10	60.43	122.20	-61.77 peak
3	5860.000	8.24	34.49	42.39	59.71	60.05	109.40	-49.35 peak
4	5938.697	8.25	34.55	42.39	60.69	61.10	68.20	-7.10 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

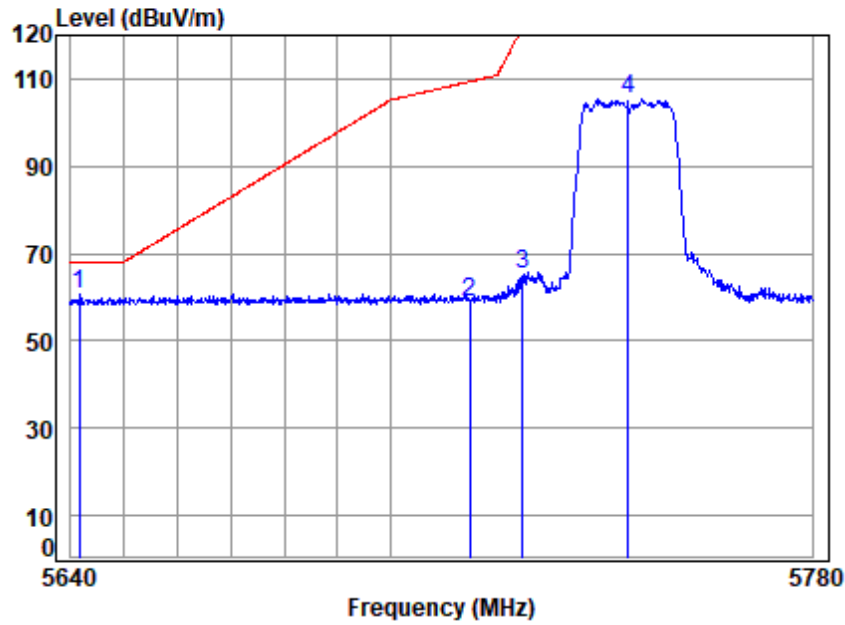


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5795 Band edge
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.23	34.44	42.38	102.37	102.66	-----	-----	peak
2	5850.000	8.24	34.48	42.39	59.90	60.23	122.20	-61.97	peak
3	5860.000	8.24	34.49	42.39	59.37	59.71	109.40	-49.69	peak
4	5938.087	8.25	34.55	42.39	60.92	61.33	68.20	-6.87	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

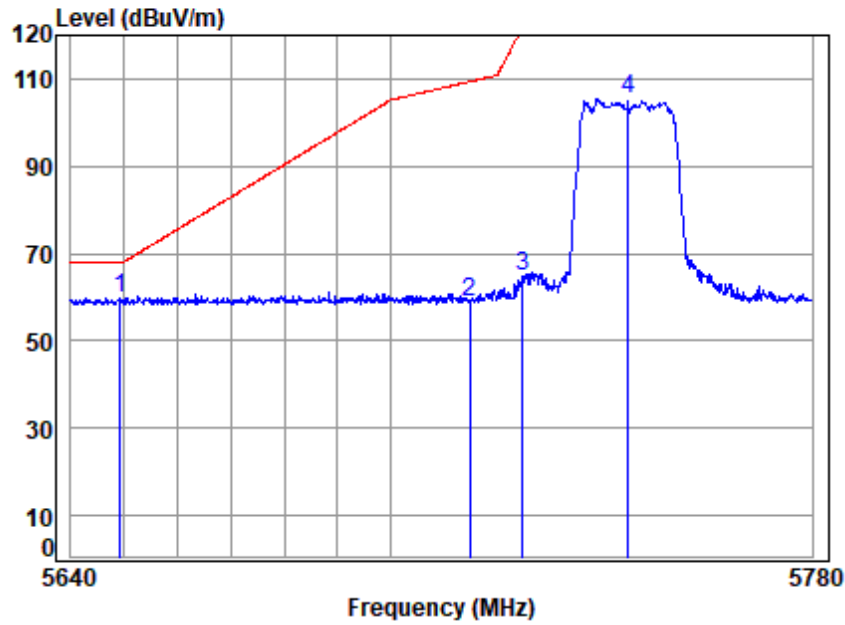


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5745 Band edge
Note : 5G WIFI 11AC20

		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	5641.521	8.20	34.32	42.37	60.44	60.59	68.20	-7.61 peak
2	5715.000	8.22	34.38	42.37	58.82	59.05	109.40	-50.35 peak
3	5725.000	8.22	34.38	42.37	64.89	65.12	122.20	-57.08 peak
4	5745.000	8.22	34.40	42.38	105.17	105.41	-----	----- peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

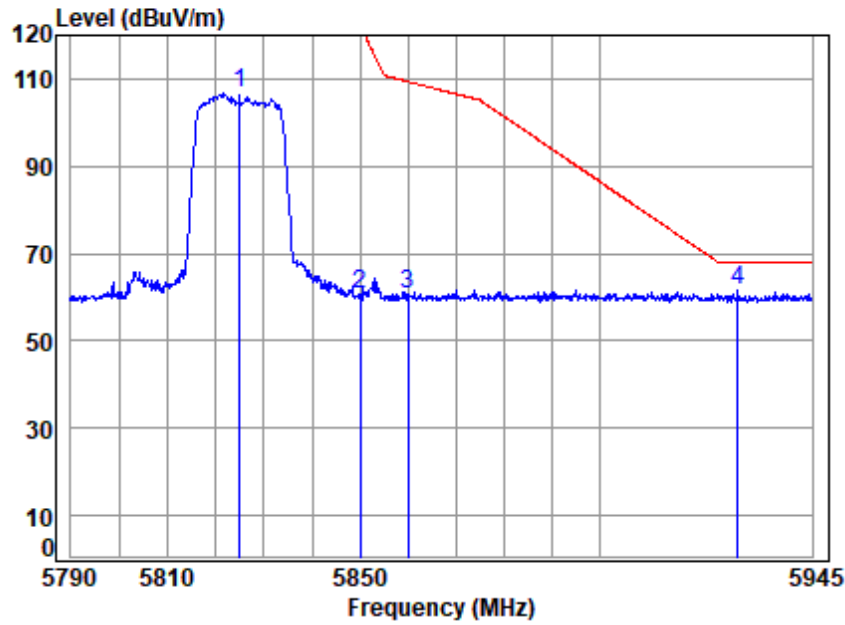


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5745 Band edge
Note : 5G WIFI 11AC20

		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	5649.135	8.20	34.32	42.37	59.62	59.77	68.20	-8.43 peak
2	5715.000	8.22	34.38	42.37	58.44	58.67	109.40	-50.73 peak
3	5725.000	8.22	34.38	42.37	64.42	64.65	122.20	-57.55 peak
4	5745.000	8.22	34.40	42.38	105.38	105.62	-----	----- peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

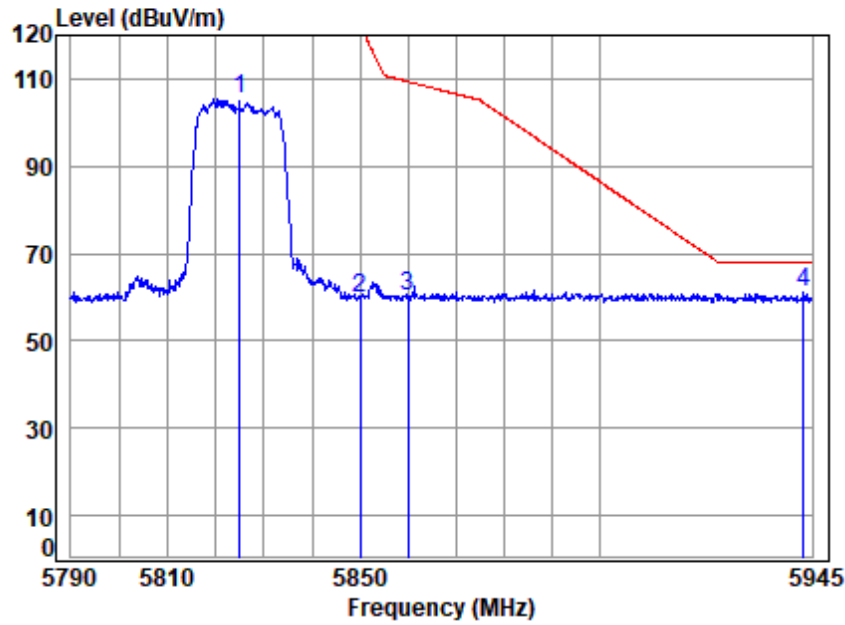


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5825 Band edge
Note : 5G WIFI 11AC20

		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	5825.000	8.23	34.46	42.38	106.32	106.63	-----	----- peak
2	5850.000	8.24	34.48	42.39	60.43	60.76	122.20	-61.44 peak
3	5860.000	8.24	34.49	42.39	60.15	60.49	109.40	-48.91 peak
4	5929.315	8.25	34.55	42.39	60.98	61.39	68.20	-6.81 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

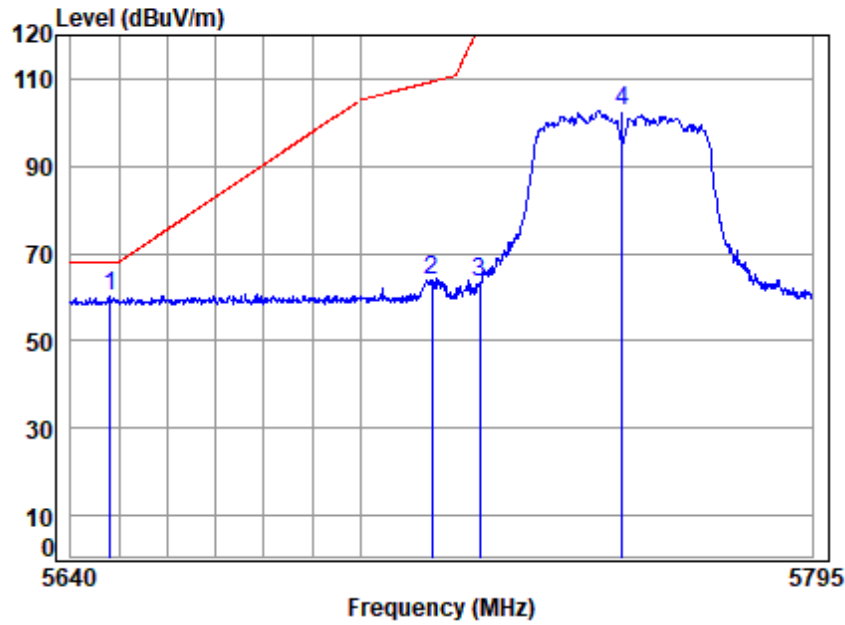


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5825 Band edge
Note : 5G WIFI 11AC20

		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	5825.000	8.23	34.46	42.38	105.11	105.42	-----	-----	peak
2	5850.000	8.24	34.48	42.39	59.60	59.93	122.20	-62.27	peak
3	5860.000	8.24	34.49	42.39	60.01	60.35	109.40	-49.05	peak
4	5943.116	8.25	34.56	42.39	60.55	60.97	68.20	-7.23	peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

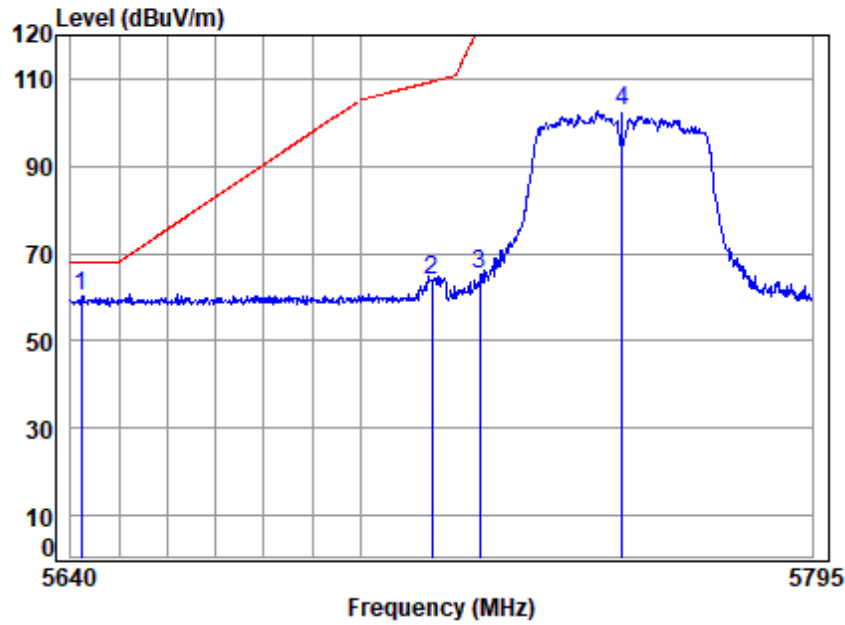


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5755 Band edge
Note : 5G WIFI 11AC40

		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	5648.110	8.20	34.32	42.37	59.96	60.11	68.20	-8.09 peak
2	5715.000	8.22	34.38	42.37	63.84	64.07	109.40	-45.33 peak
3	5725.000	8.22	34.38	42.37	63.33	63.56	122.20	-58.64 peak
4	5755.000	8.22	34.41	42.38	102.48	102.73	-----	----- peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

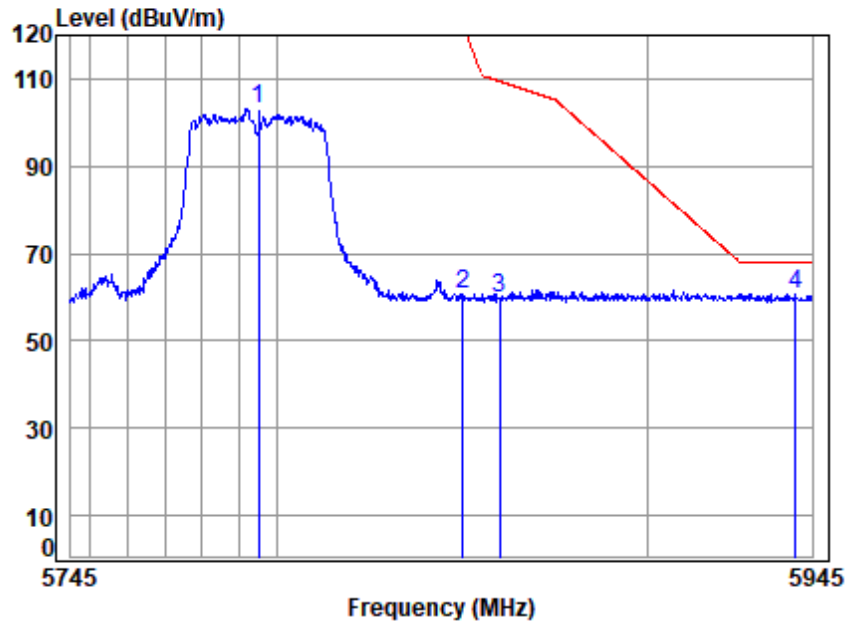


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5755 Band edge
Note : 5G WIFI 11AC40

		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	5642.141	8.20	34.32	42.37	59.96	60.11	68.20	-8.09 peak
2	5715.000	8.22	34.38	42.37	63.78	64.01	109.40	-45.39 peak
3	5725.000	8.22	34.38	42.37	65.13	65.36	122.20	-56.84 peak
4	5755.000	8.22	34.41	42.38	102.38	102.63	-----	----- peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

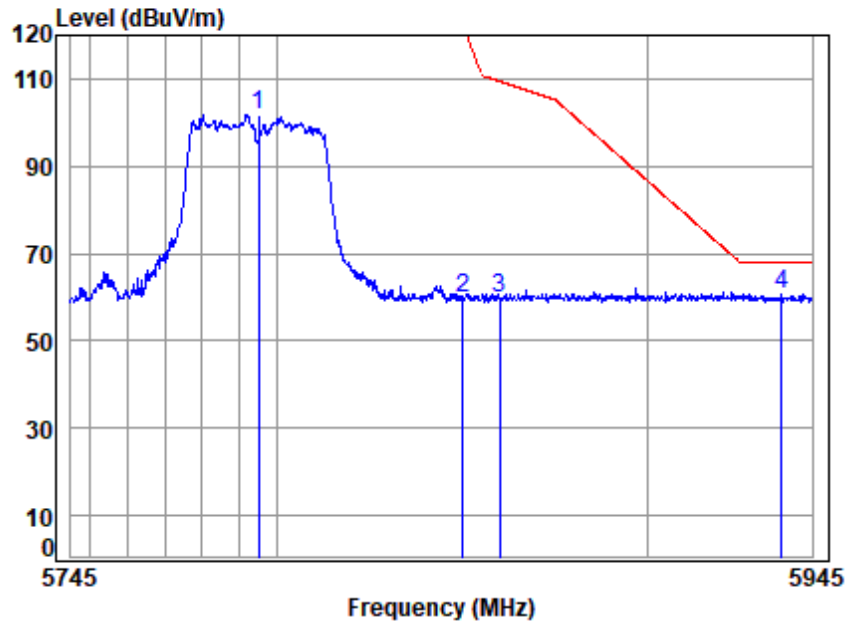


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5795 Band edge
Note : 5G WIFI 11AC40

		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	5795.000	8.23	34.44	42.38	102.76	103.05	-----	-----	peak
2	5850.000	8.24	34.48	42.39	60.29	60.62	122.20	-61.58	peak
3	5860.000	8.24	34.49	42.39	59.45	59.79	109.40	-49.61	peak
4	5940.323	8.25	34.55	42.39	60.43	60.84	68.20	-7.36	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

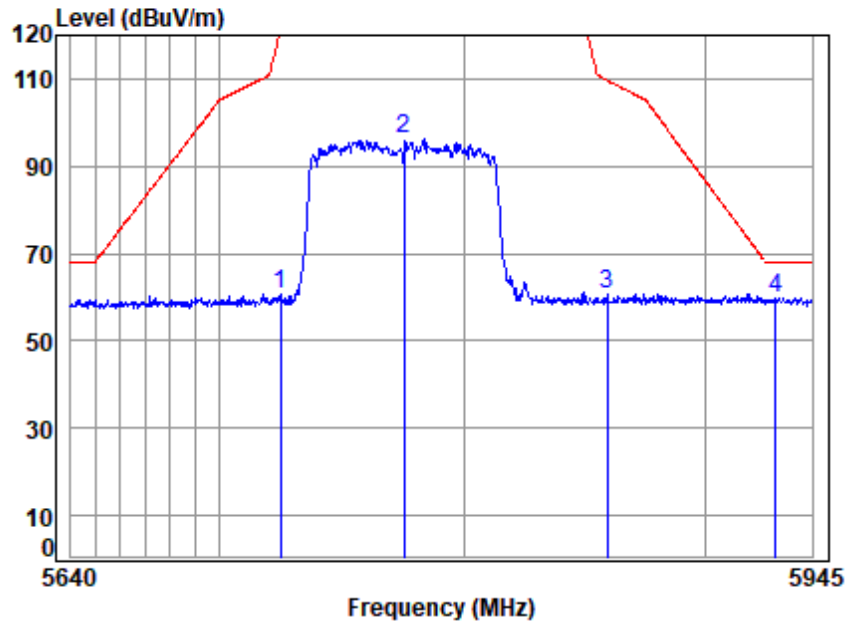


Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5795 Band edge
Note : 5G WIFI 11AC40

		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	5795.000	8.23	34.44	42.38	101.53	101.82	-----	----- peak
2	5850.000	8.24	34.48	42.39	59.50	59.83	122.20	-62.37 peak
3	5860.000	8.24	34.49	42.39	59.59	59.93	109.40	-49.47 peak
4	5936.665	8.25	34.55	42.39	60.27	60.68	68.20	-7.52 peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

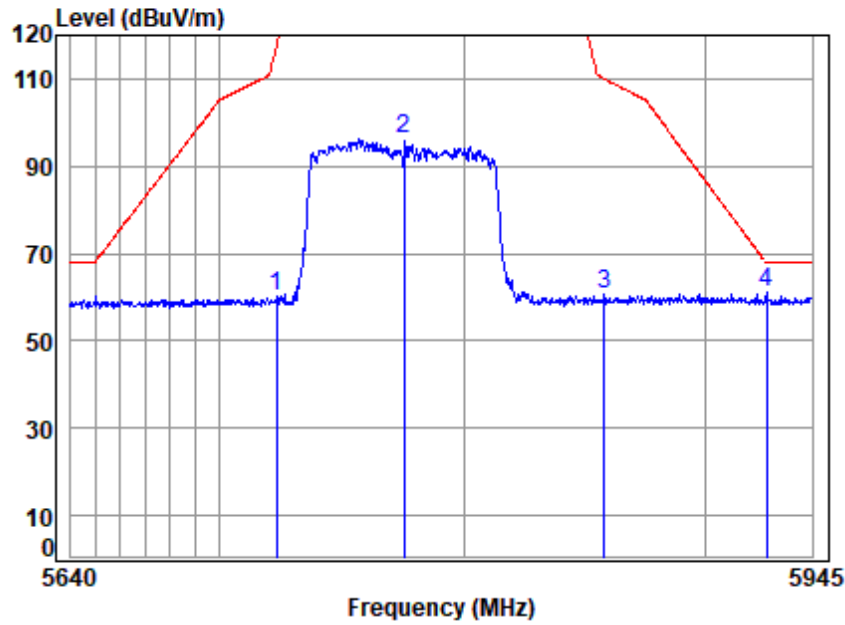


Site : chamber
Condition: 3m HORIZONTAL
Job No : 20539AT
Mode : 5775 Band edge
Note : 5G WIFI 11AC80

		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	5724.691	8.22	34.38	42.37	60.35	60.58	121.50	-60.92 peak
2	5775.000	8.22	34.42	42.38	95.81	96.07	-----	----- peak
3	5859.209	8.24	34.49	42.39	60.20	60.54	109.62	-49.08 peak
4	5929.678	8.25	34.55	42.39	59.54	59.95	68.20	-8.25 peak



Test Mode: 10; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 20539AT
Mode : 5775 Band edge
Note : 5G WIFI 11AC80

		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	5723.184	8.22	34.38	42.37	60.17	60.40	118.06	-57.66 peak
2	5775.000	8.22	34.42	42.38	95.86	96.12	-----	----- peak
3	5857.975	8.24	34.49	42.39	60.36	60.70	109.97	-49.27 peak
4	5925.932	8.25	34.54	42.39	60.72	61.12	68.20	-7.08 peak



7.10 Frequency Stability

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

Test Method: ANSI C63.10 (2013) Section 6.8

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C

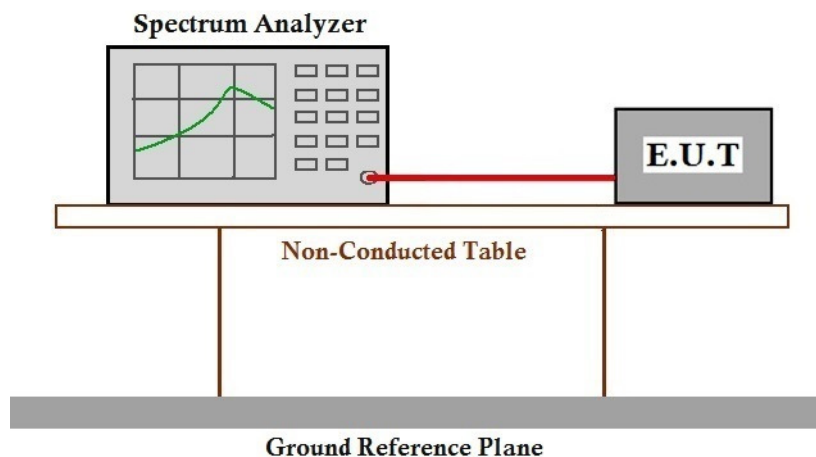
Humidity: 61.3 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



7.11 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method: KDB 789033 D02 II G
Measurement Distance: 3m

Limit:

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

7.11.1 E.U.T. Operation

Operating Environment:

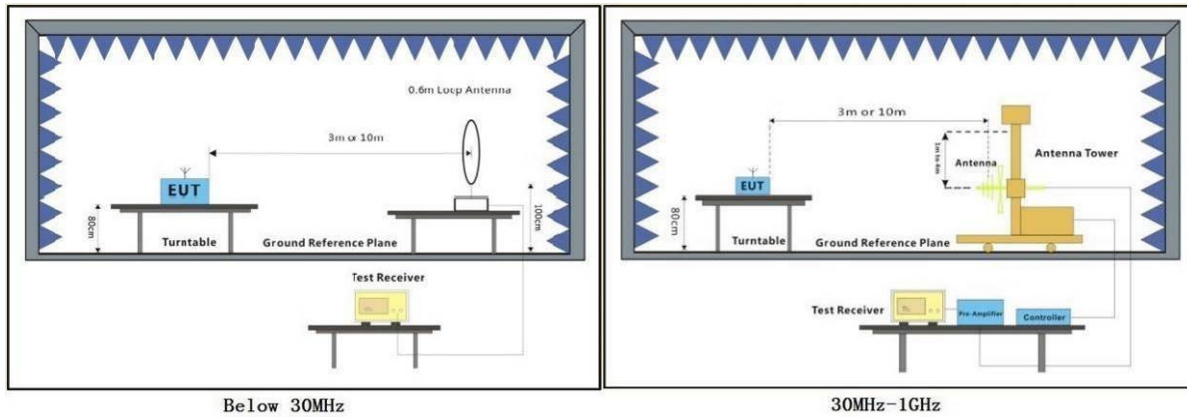
Temperature: 25.2 °C Humidity: 50.4 % RH Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



7.11.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

7.11.4 Measurement Procedure and Data

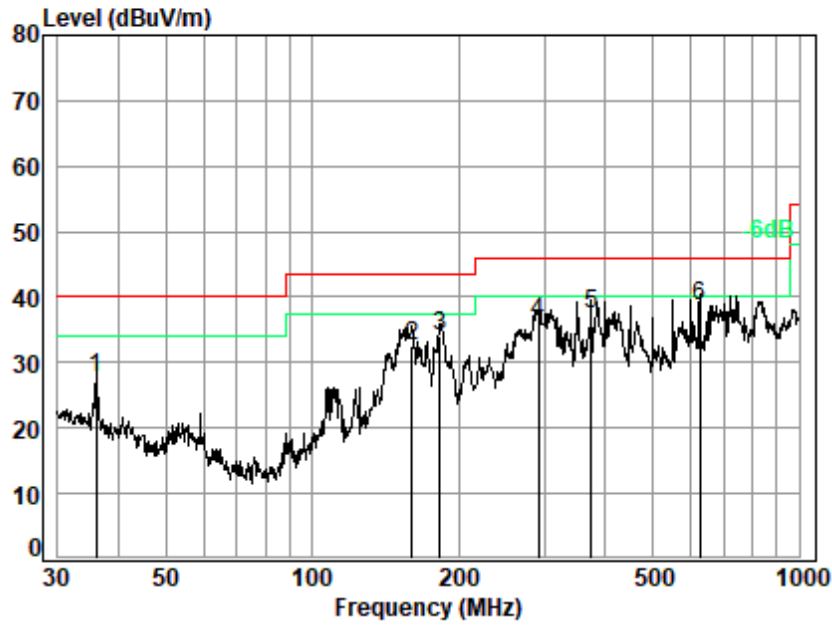
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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 harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 10; Polarity: Horizontal

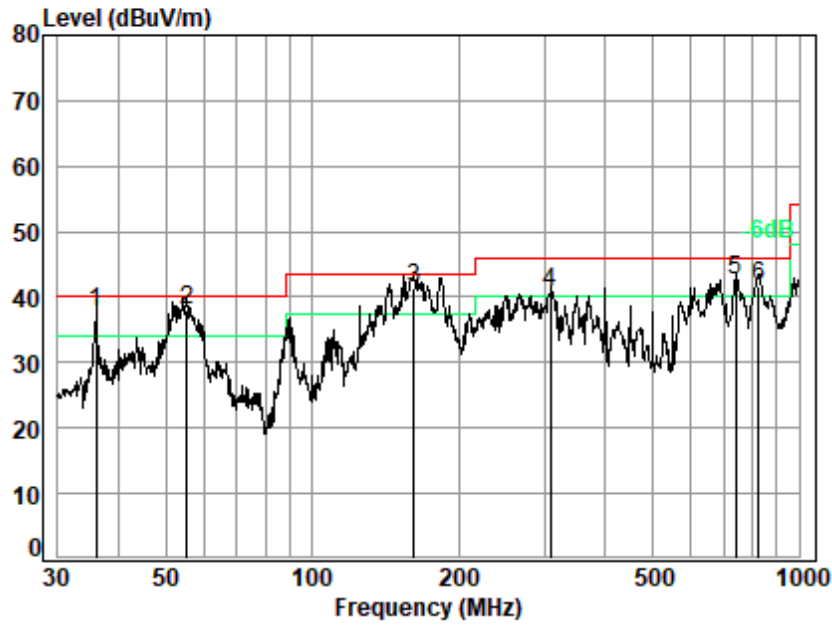


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 20539AT
Test Mode: 10

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	36.00	35.16	19.70	0.66	27.72	27.80	40.00	-12.20	QP
2	160.35	43.28	15.41	1.17	27.29	32.57	43.50	-10.93	QP
3	182.56	44.55	15.43	1.19	27.20	33.97	43.50	-9.53	QP
4	291.04	42.66	18.38	1.94	26.89	36.09	46.00	-9.91	QP
5	374.62	40.27	22.20	2.23	27.27	37.43	46.00	-8.57	QP
6 q	625.08	37.28	26.60	2.75	28.07	38.56	46.00	-7.44	QP



Test Mode: 10; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 20539AT
Test Mode: 10

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	36.00	44.99	19.70	0.66	27.72	37.63	40.00	-2.37	QP
2 q	55.22	51.71	13.13	0.75	27.67	37.92	40.00	-2.08	QP
3	161.47	51.91	15.43	1.17	27.29	41.22	43.50	-2.28	QP
4	308.91	46.21	19.37	2.03	26.92	40.69	46.00	-5.31	QP
5	739.66	39.33	27.99	3.07	27.84	42.55	46.00	-3.45	QP
6	827.49	37.90	27.89	3.36	27.57	41.58	46.00	-4.42	QP



8 Test Setup Photo

Refer to Setup Photos

9 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos



Appendix for 15.407

1. Duty Cycle

1.1 Test Result

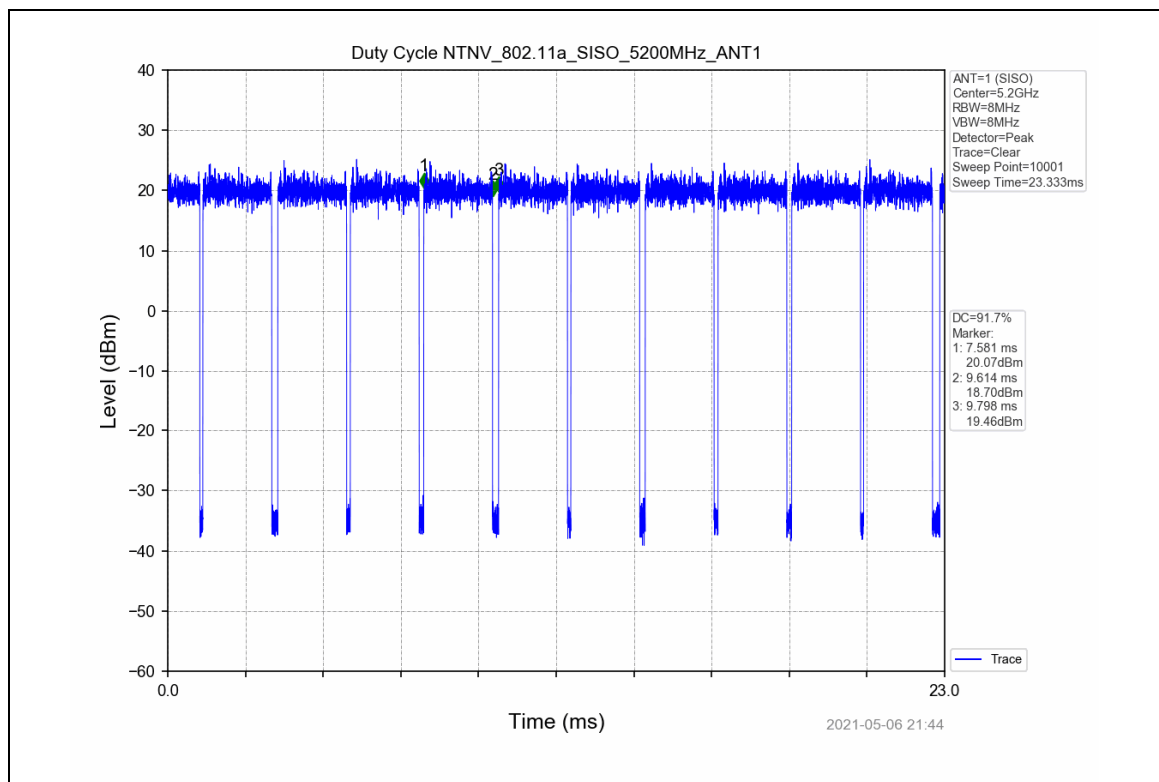
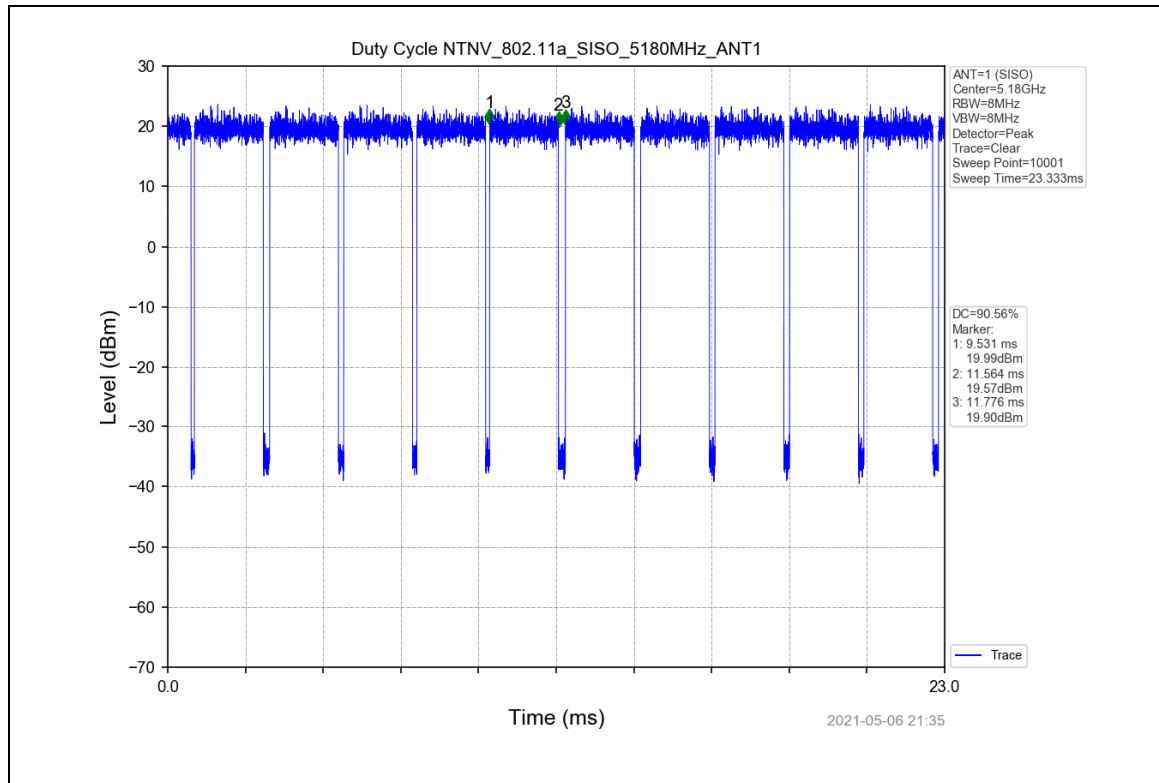
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	2.033	2.245	90.56	0.43
	5200	SISO	1	2.033	2.217	91.70	0.38
	5240	SISO	1	2.033	2.226	91.33	0.39
	5745	SISO	1	2.035	2.254	90.28	0.44
	5785	SISO	1	2.064	2.268	91.01	0.41
	5825	SISO	1	2.064	2.294	89.97	0.46
802.11n(HT20)	5180	MIMO	1	1.893	2.111	89.67	0.47
	5200	MIMO	1	1.919	2.192	87.55	0.58
	5240	MIMO	1	1.920	2.142	89.64	0.47
	5745	MIMO	1	1.921	2.143	89.64	0.47
	5785	MIMO	1	1.919	2.123	90.39	0.44
	5825	MIMO	1	1.918	2.149	89.25	0.49
802.11n(HT40)	5190	MIMO	1	0.917	1.141	80.37	0.95
	5230	MIMO	1	0.916	1.141	80.28	0.95
	5755	MIMO	1	0.917	1.132	81.01	0.91
	5795	MIMO	1	0.916	1.132	80.92	0.92
802.11ac(VHT20)	5180	MIMO	1	1.932	2.189	88.26	0.54
	5200	MIMO	1	1.932	2.557	75.56	1.22
	5240	MIMO	1	1.932	2.160	89.44	0.48
	5745	MIMO	1	1.932	2.170	89.03	0.50
	5785	MIMO	1	1.931	2.186	88.33	0.54
	5825	MIMO	1	1.932	2.169	89.07	0.50
802.11ac(VHT40)	5190	MIMO	1	0.951	1.207	78.79	1.04
	5230	MIMO	1	0.951	1.231	77.25	1.12
	5755	MIMO	1	0.952	1.190	80.00	0.97
	5795	MIMO	1	0.951	1.189	79.98	0.97
802.11ac(VHT80)	5210	MIMO	1	0.440	0.683	64.42	1.91
	5775	MIMO	1	0.439	0.683	64.28	1.92

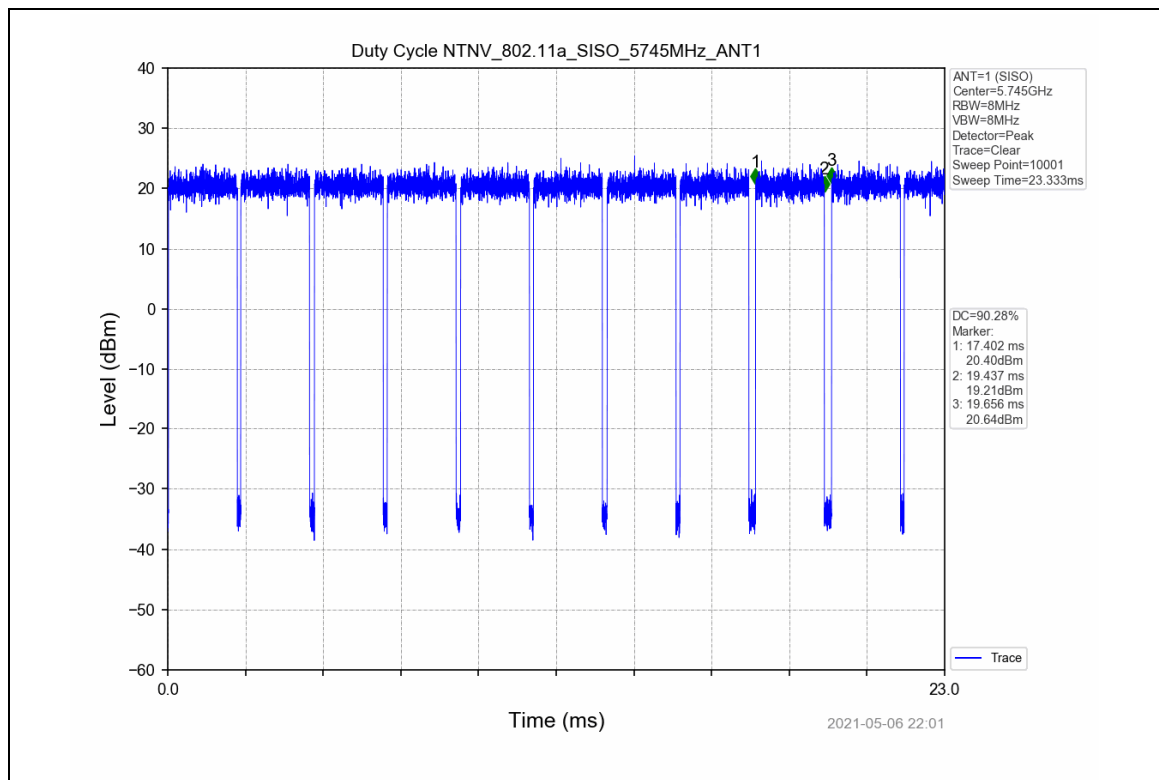
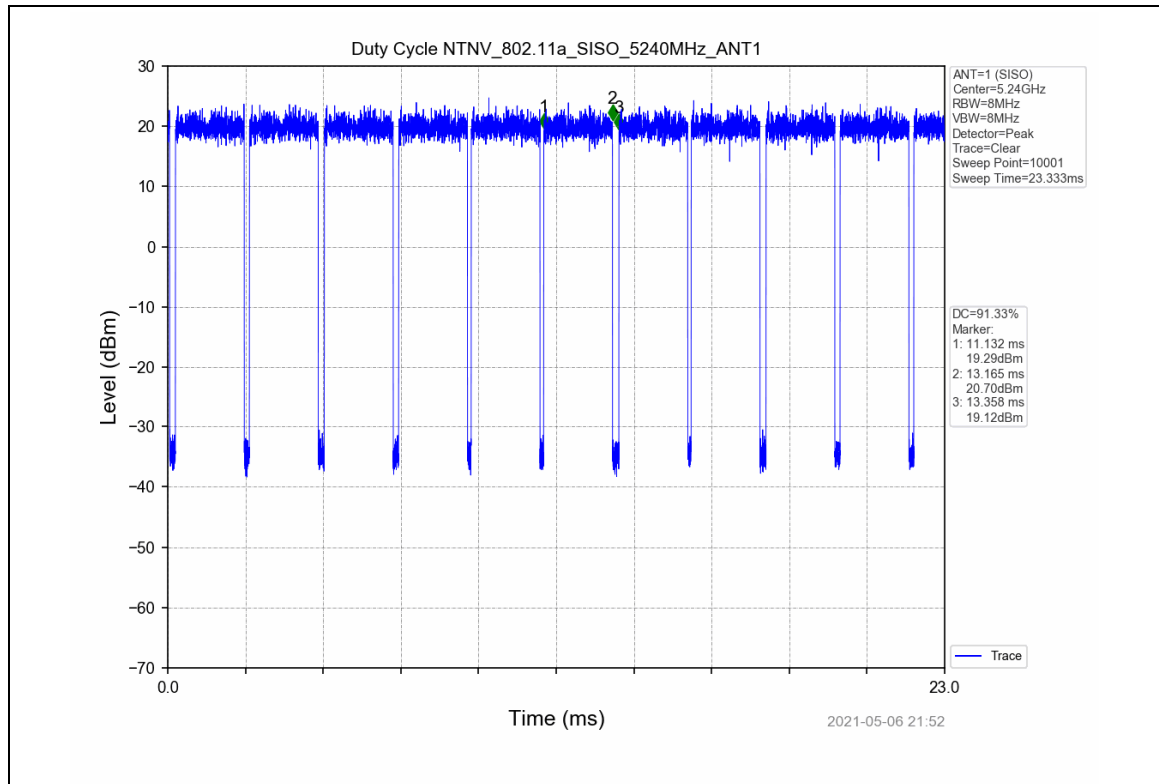


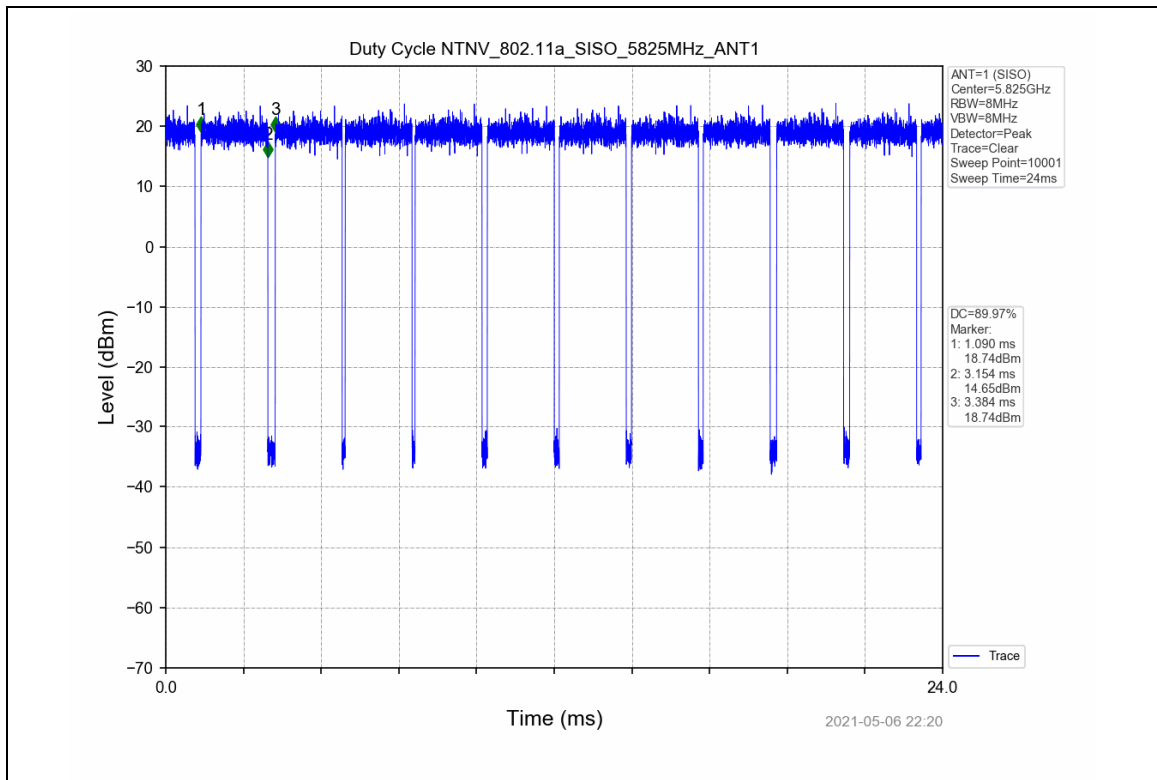
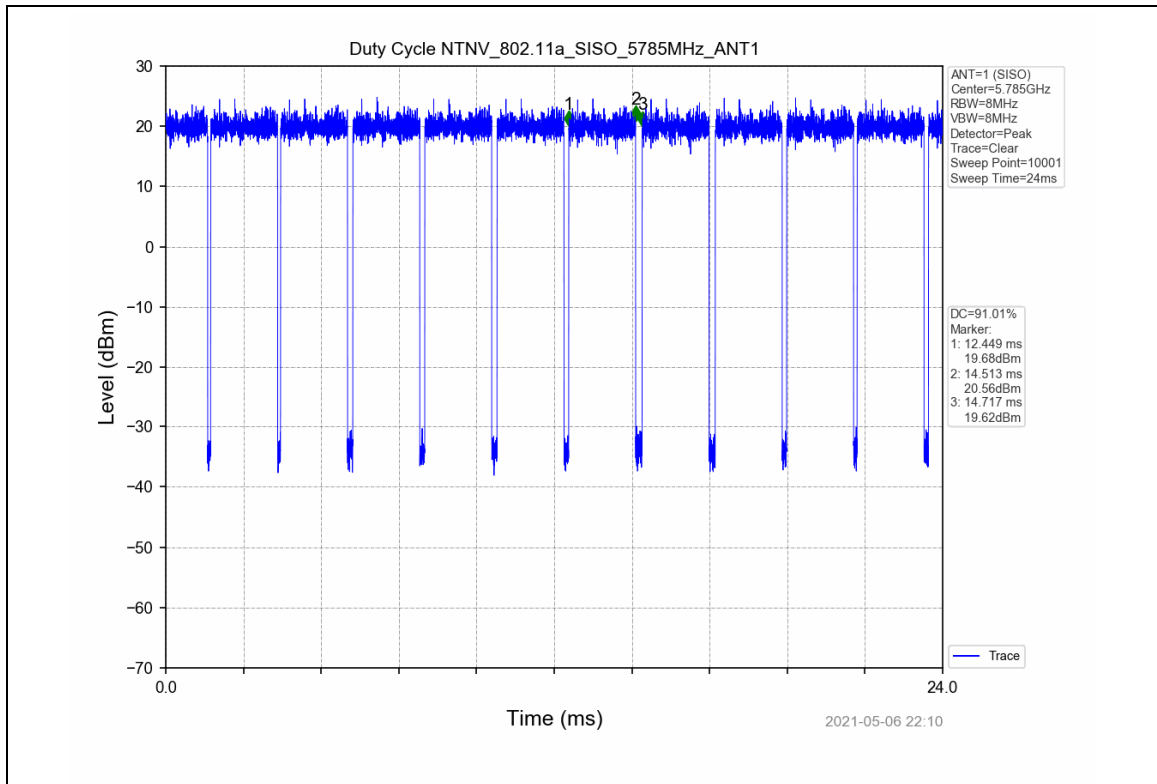
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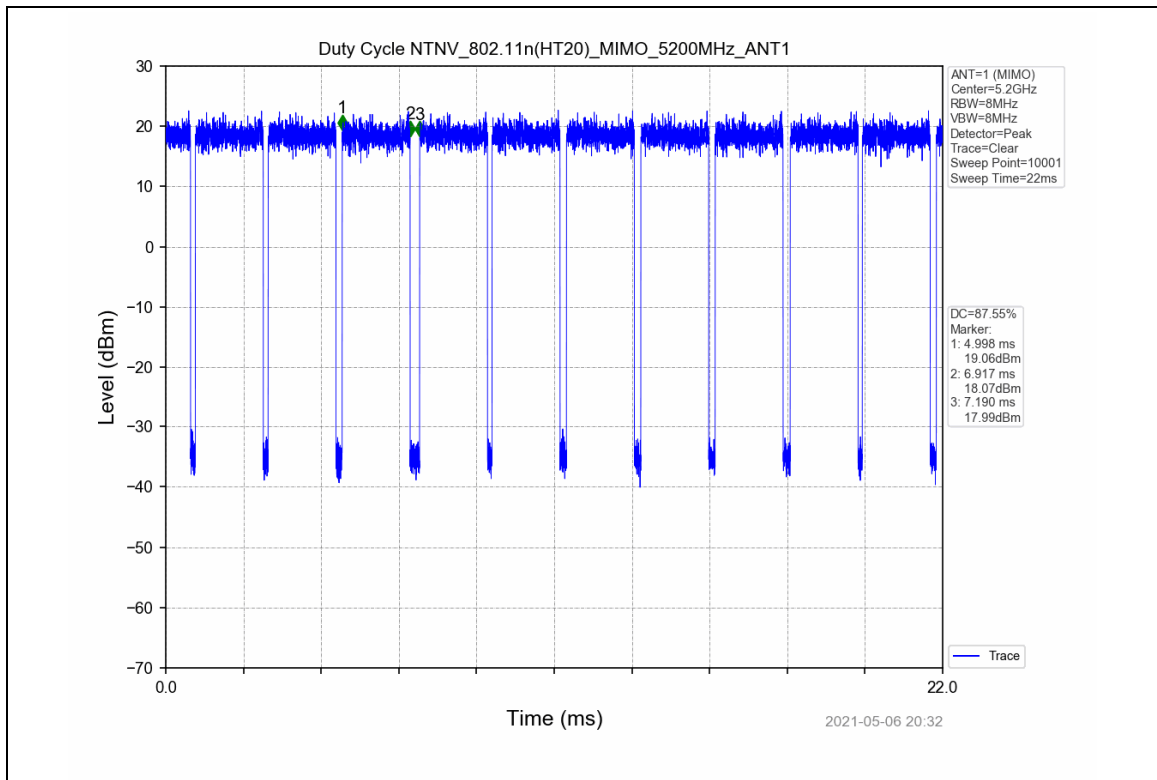
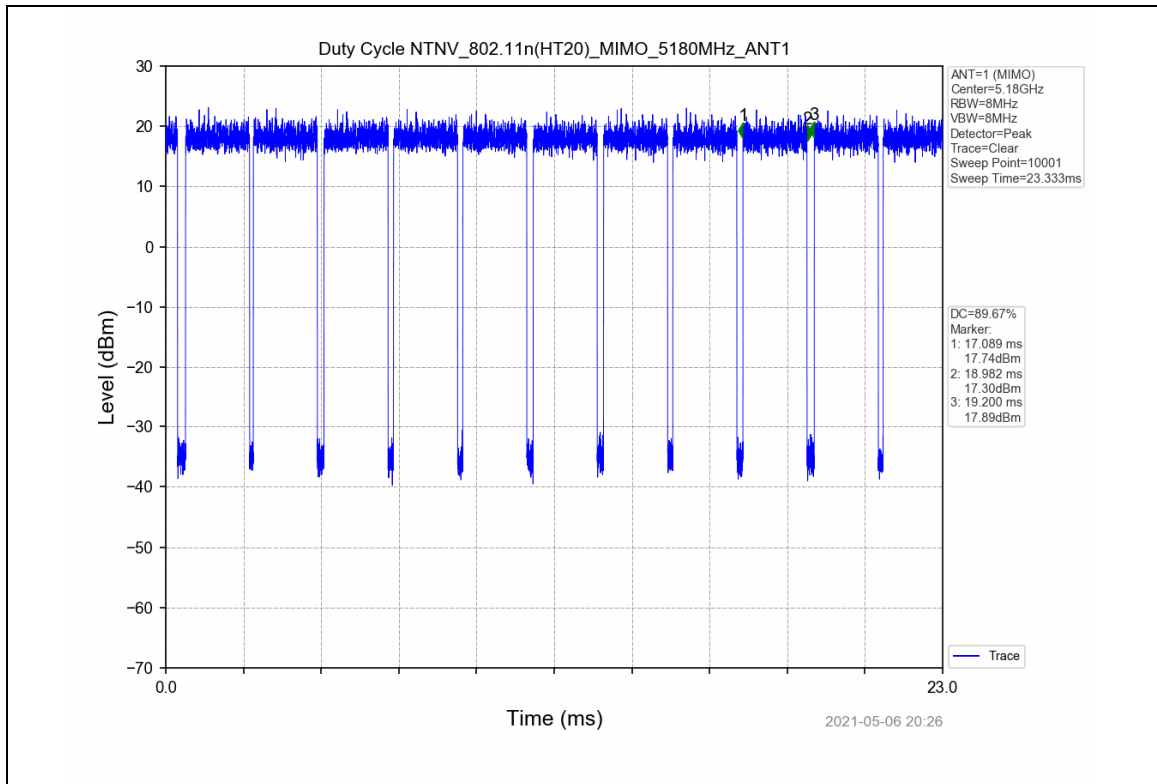
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

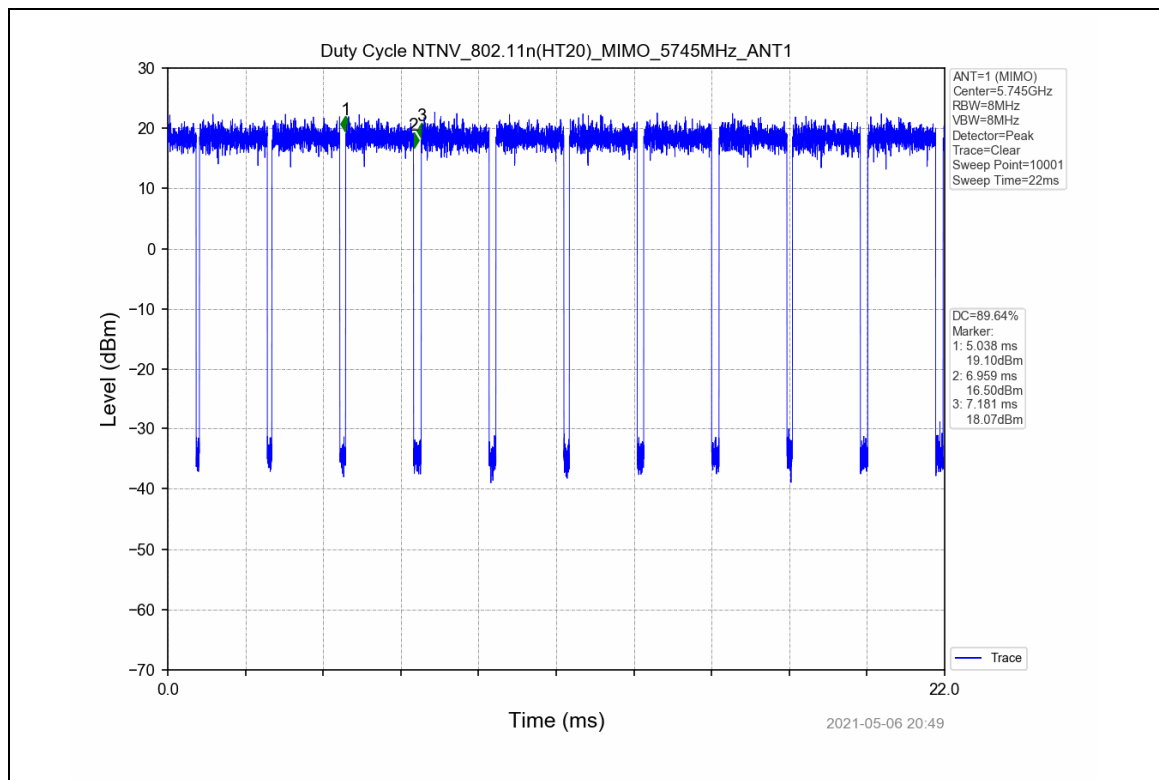
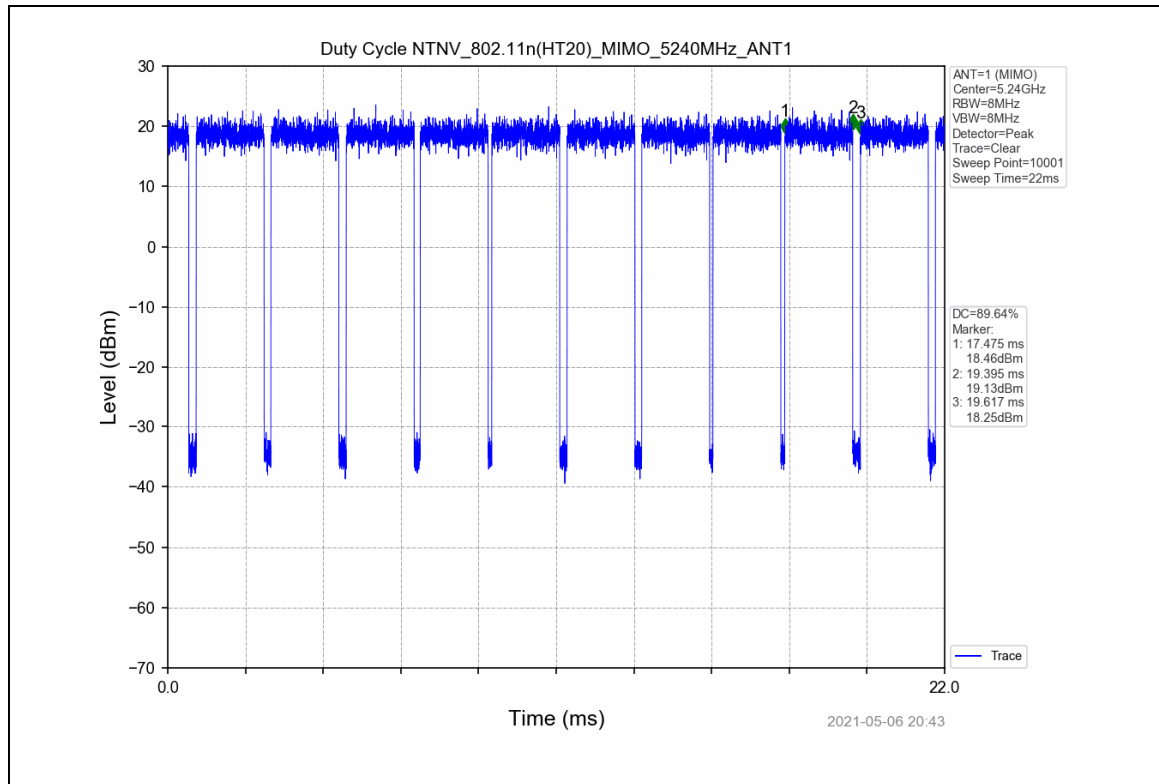
1.2 Test Graph

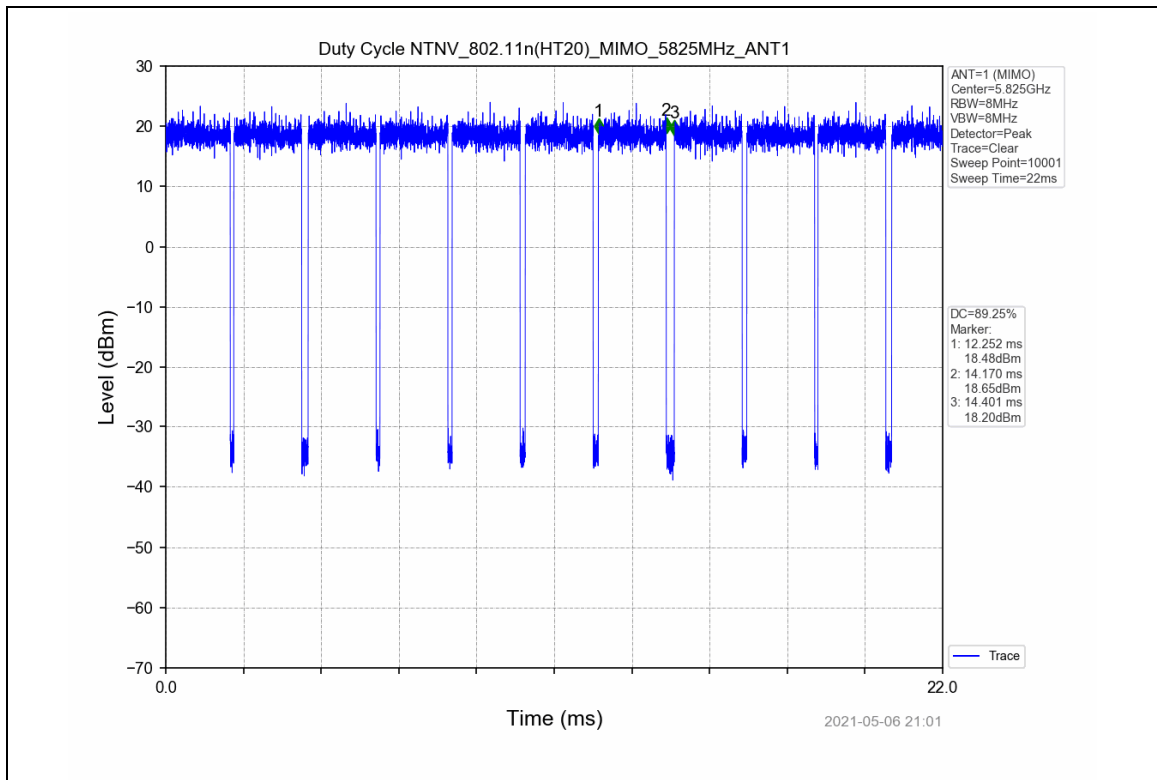
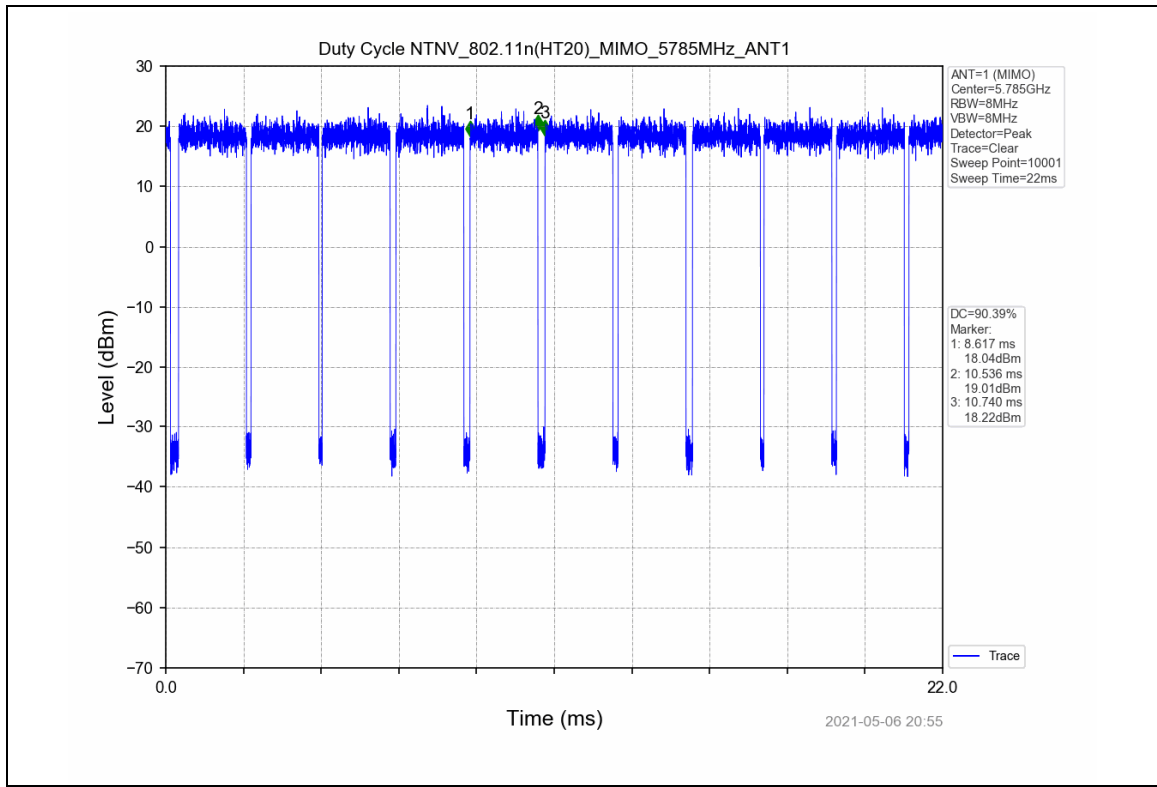


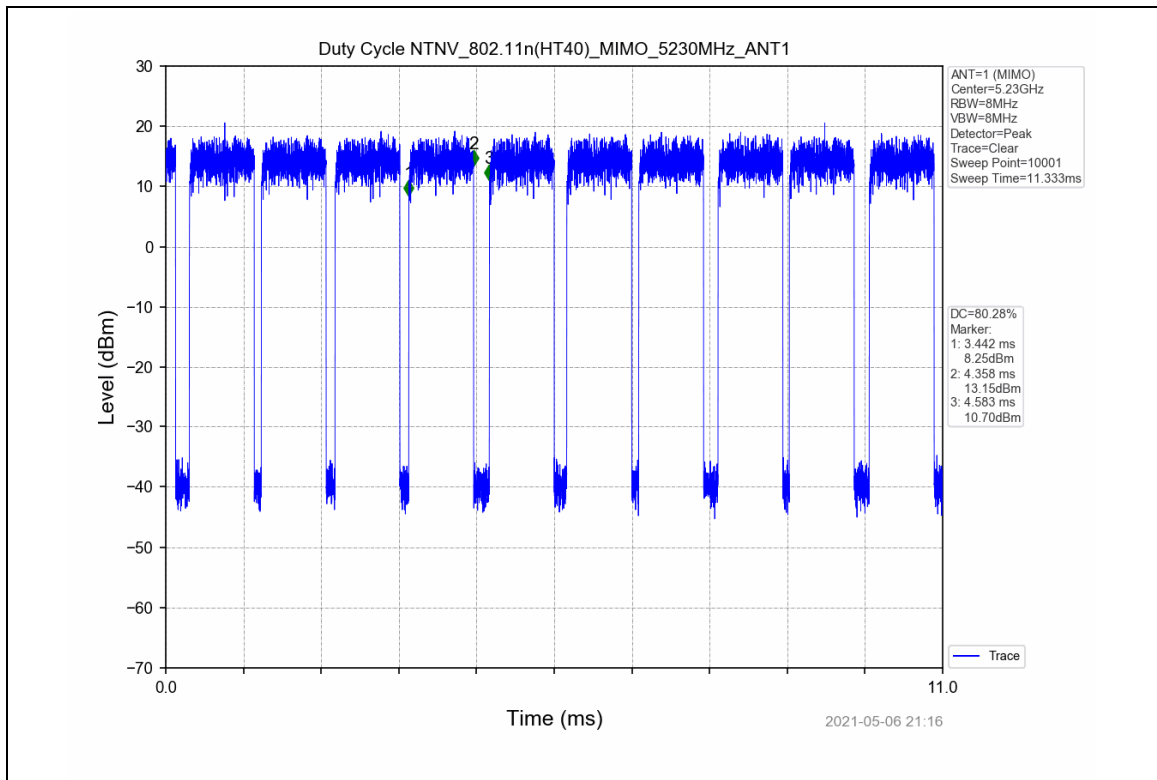
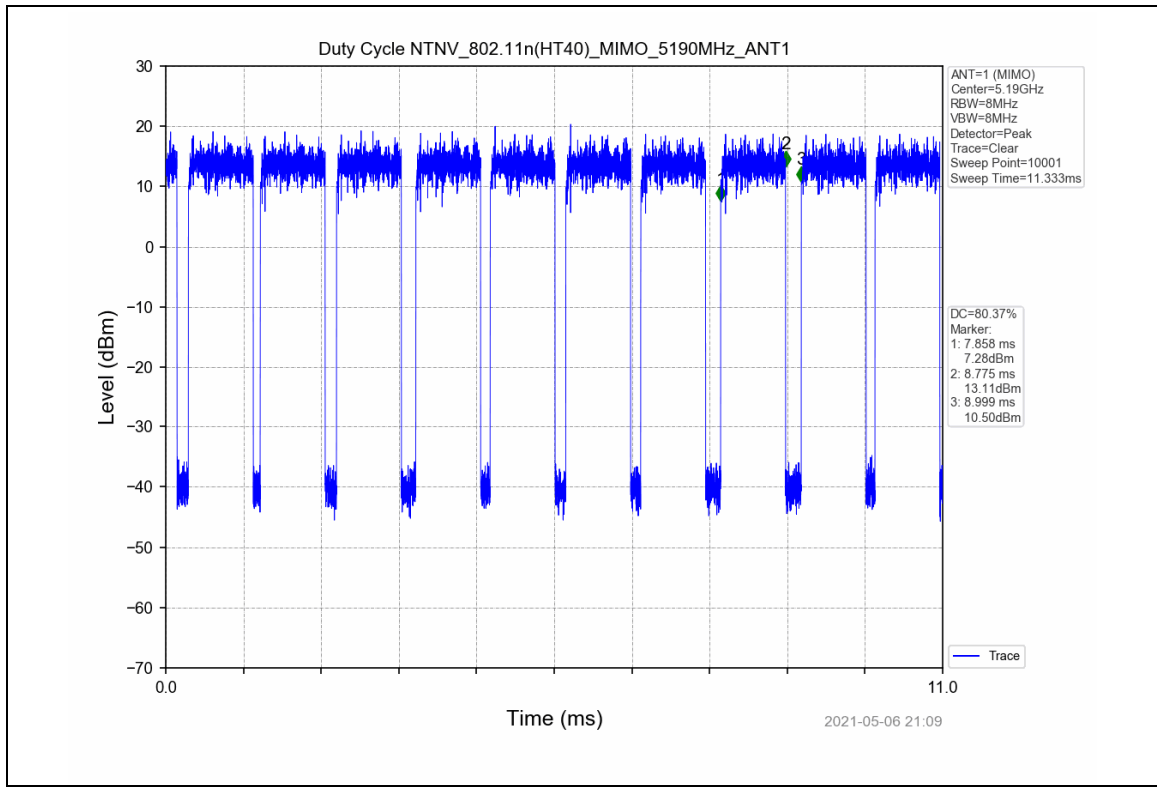


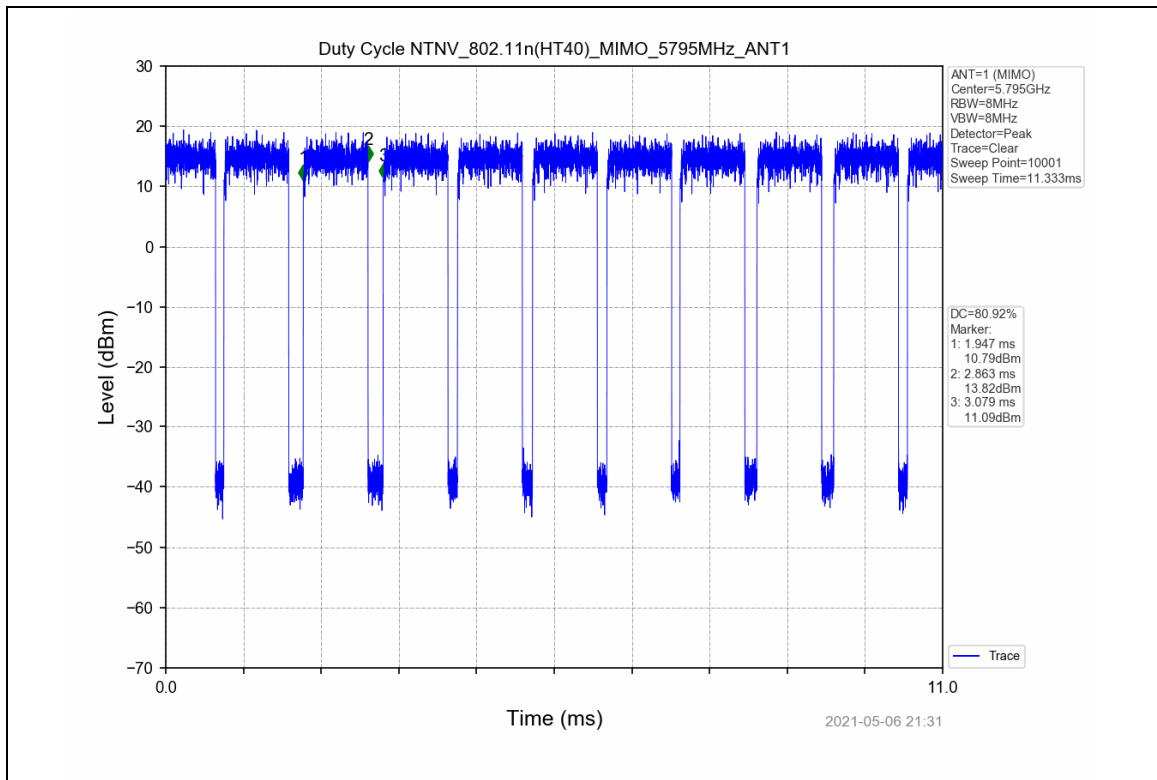
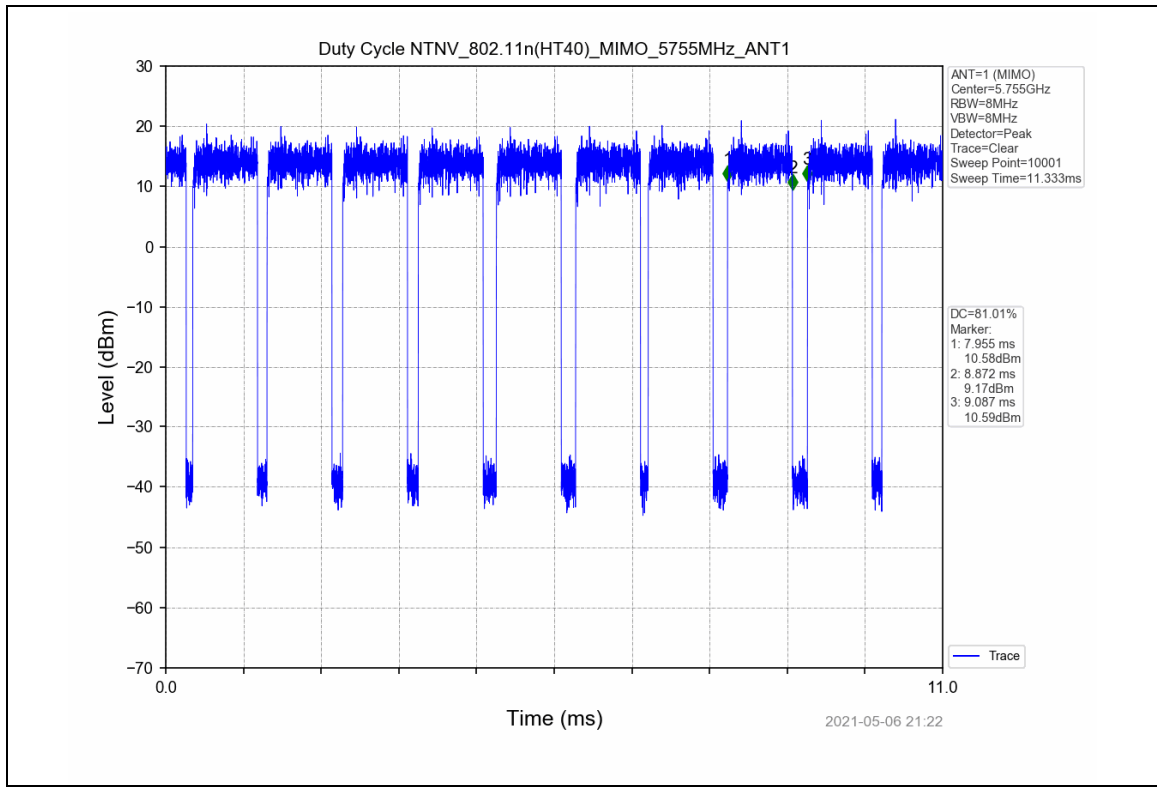


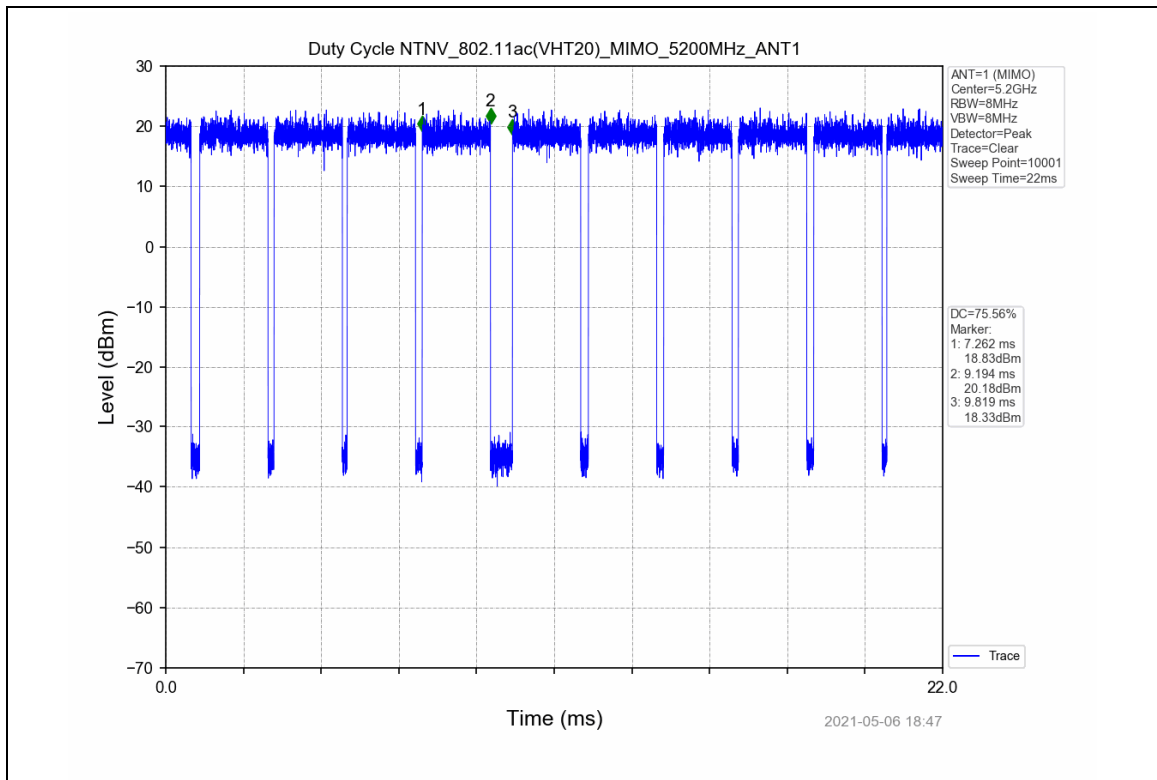
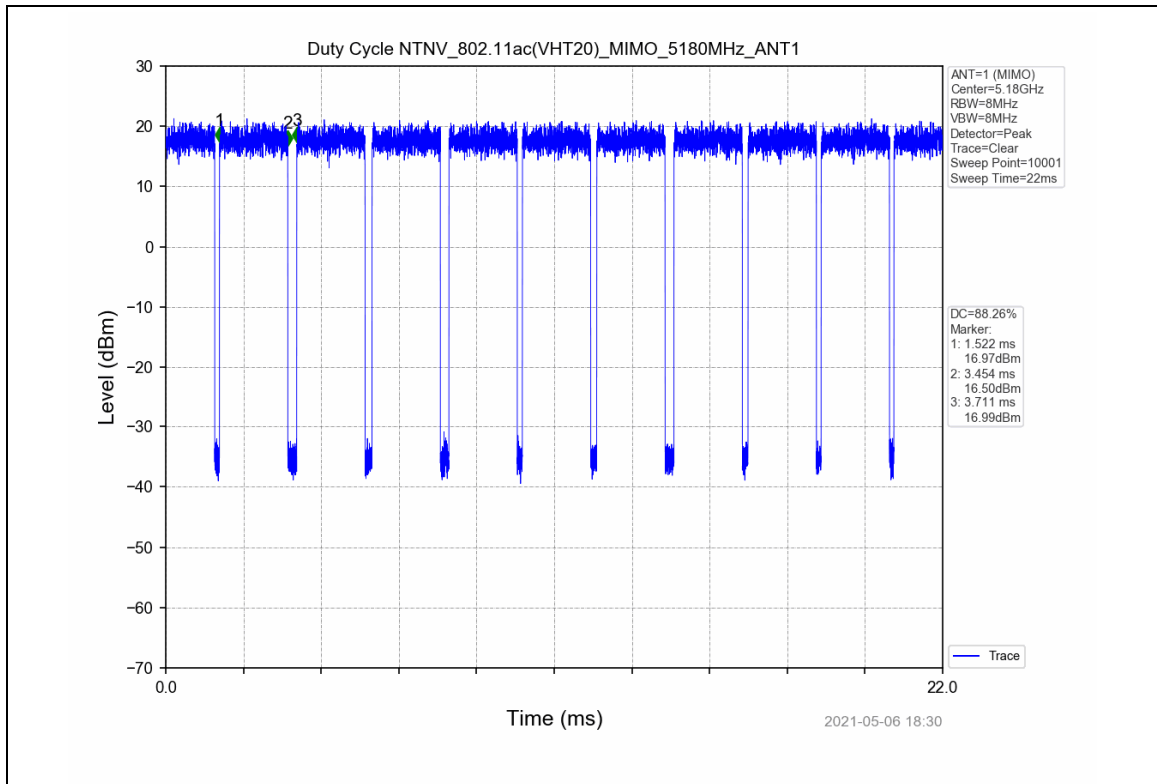


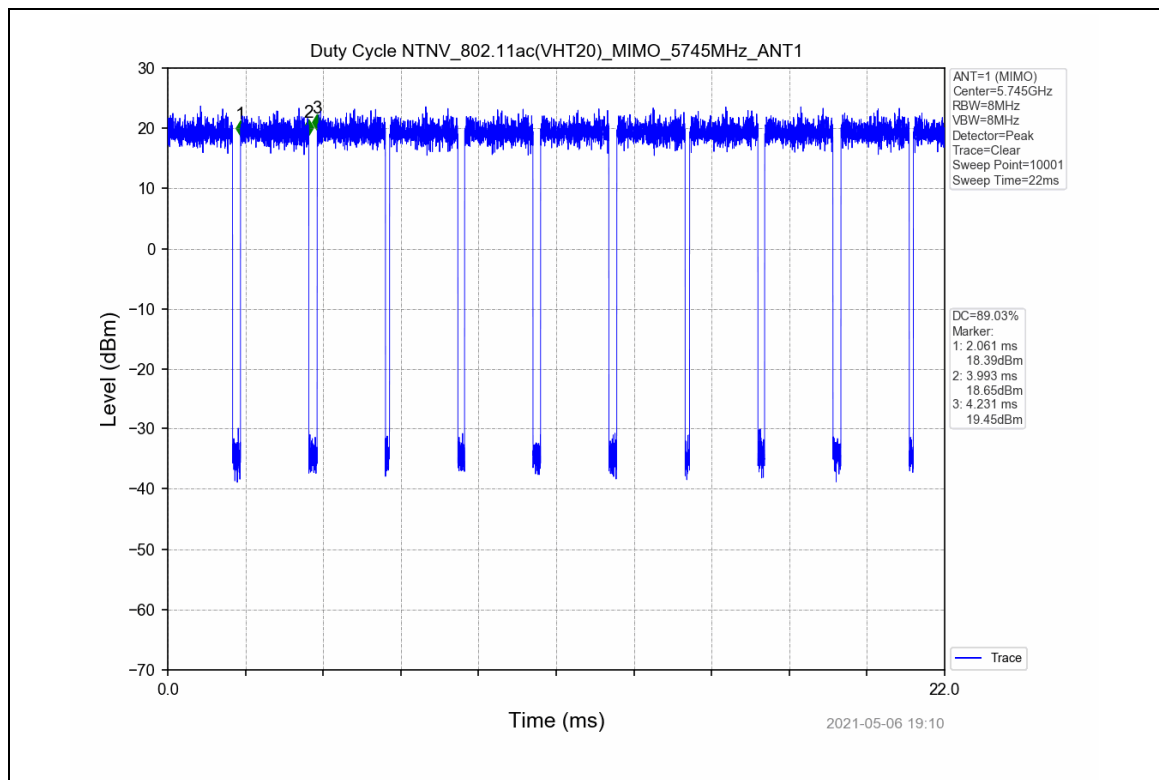
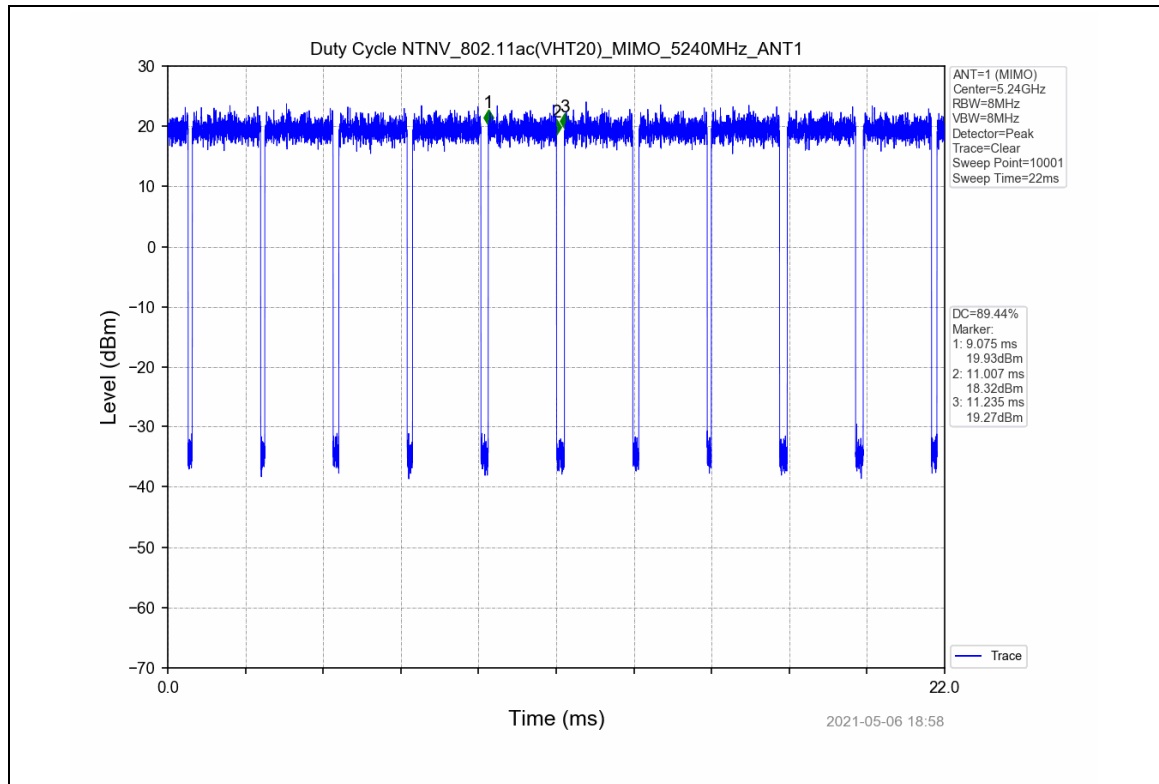


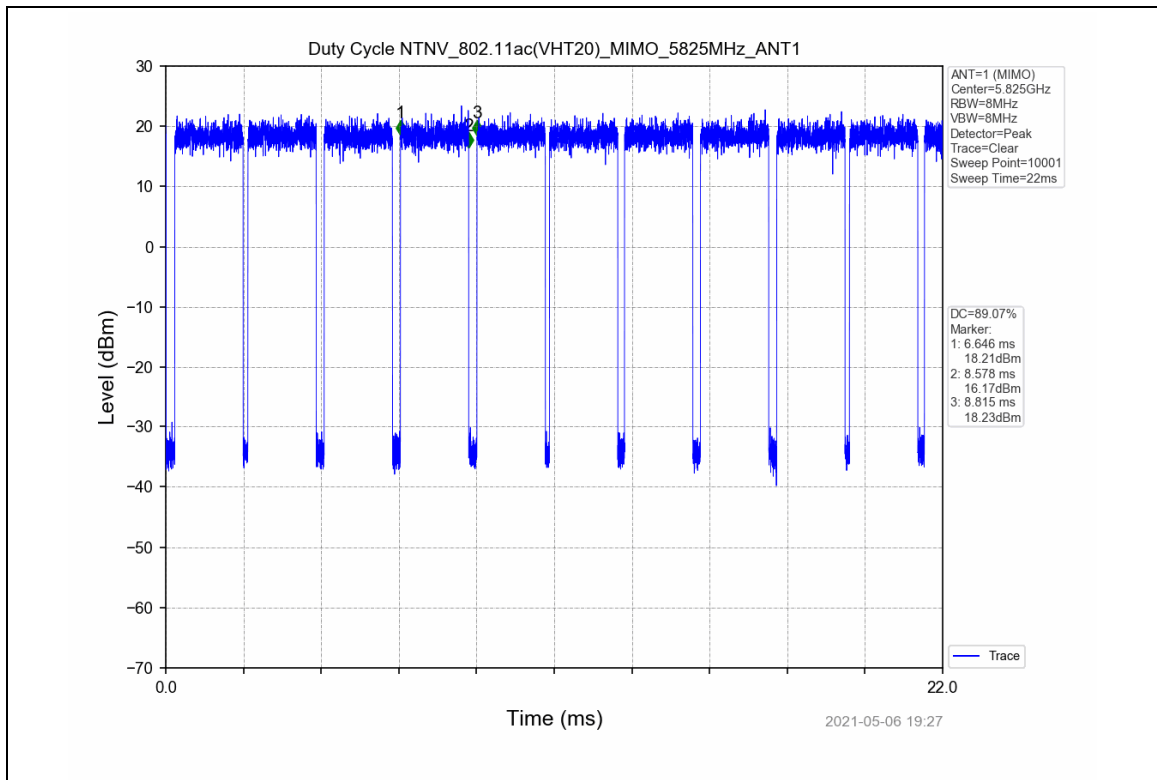
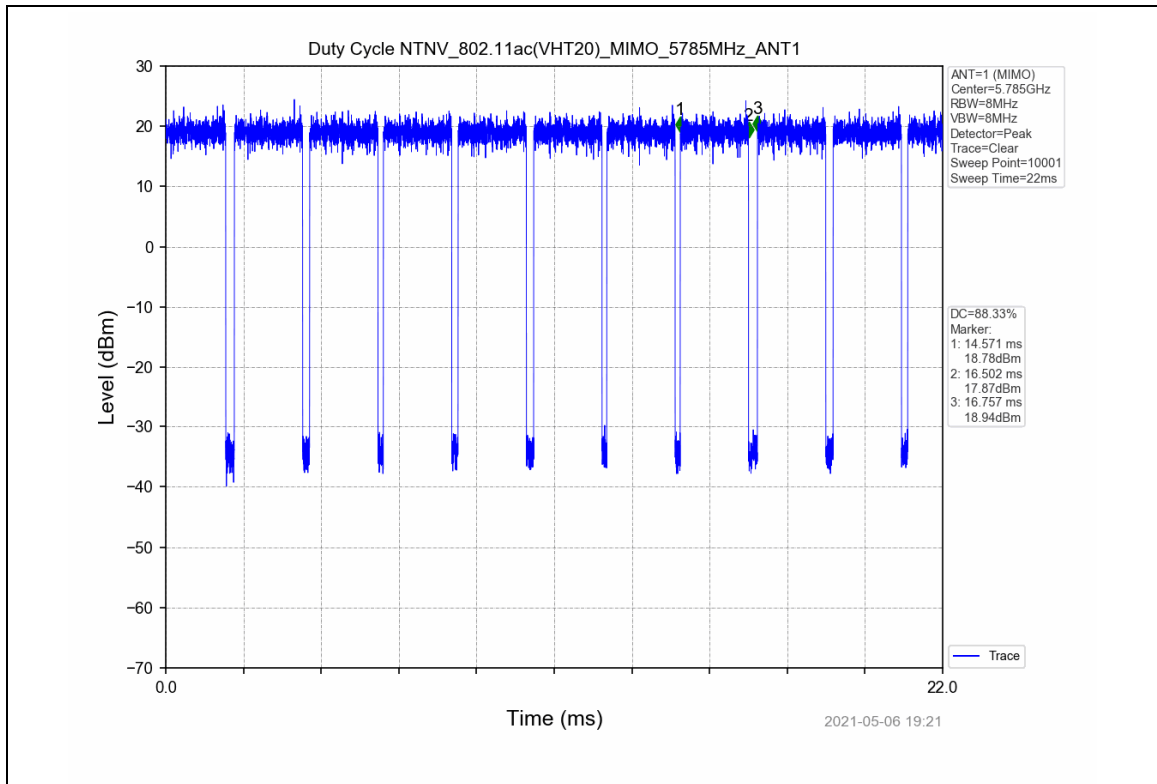


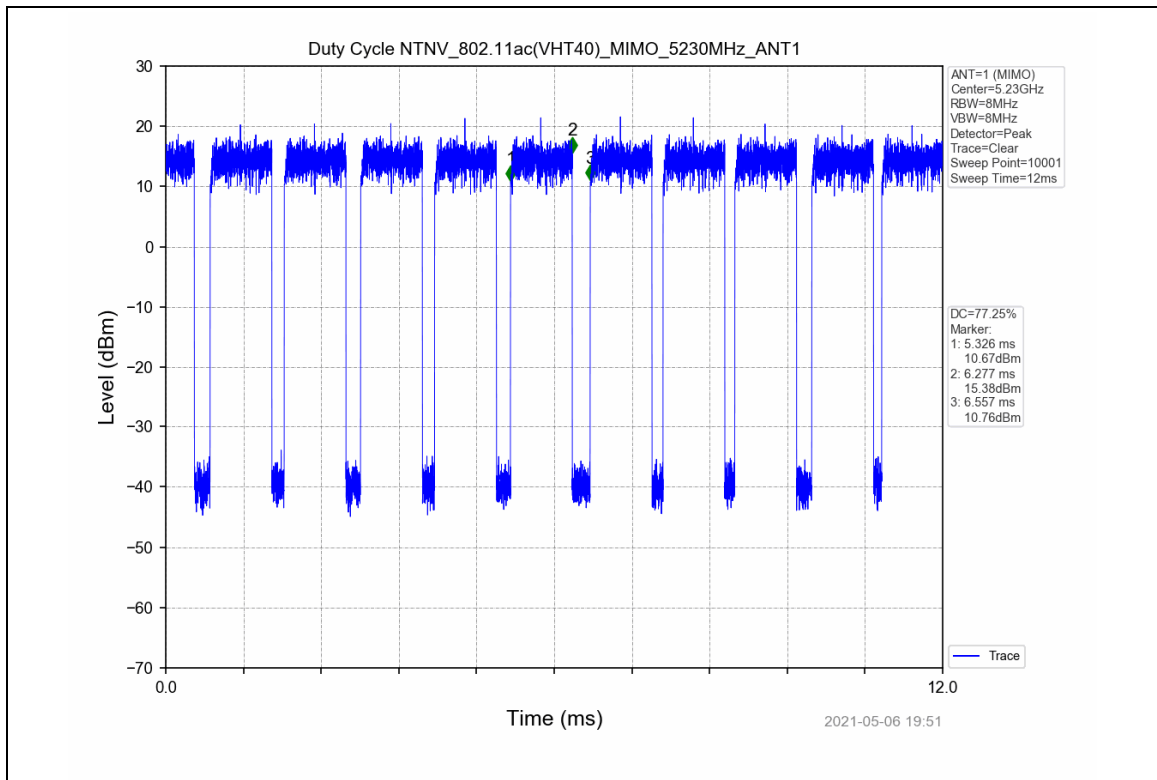
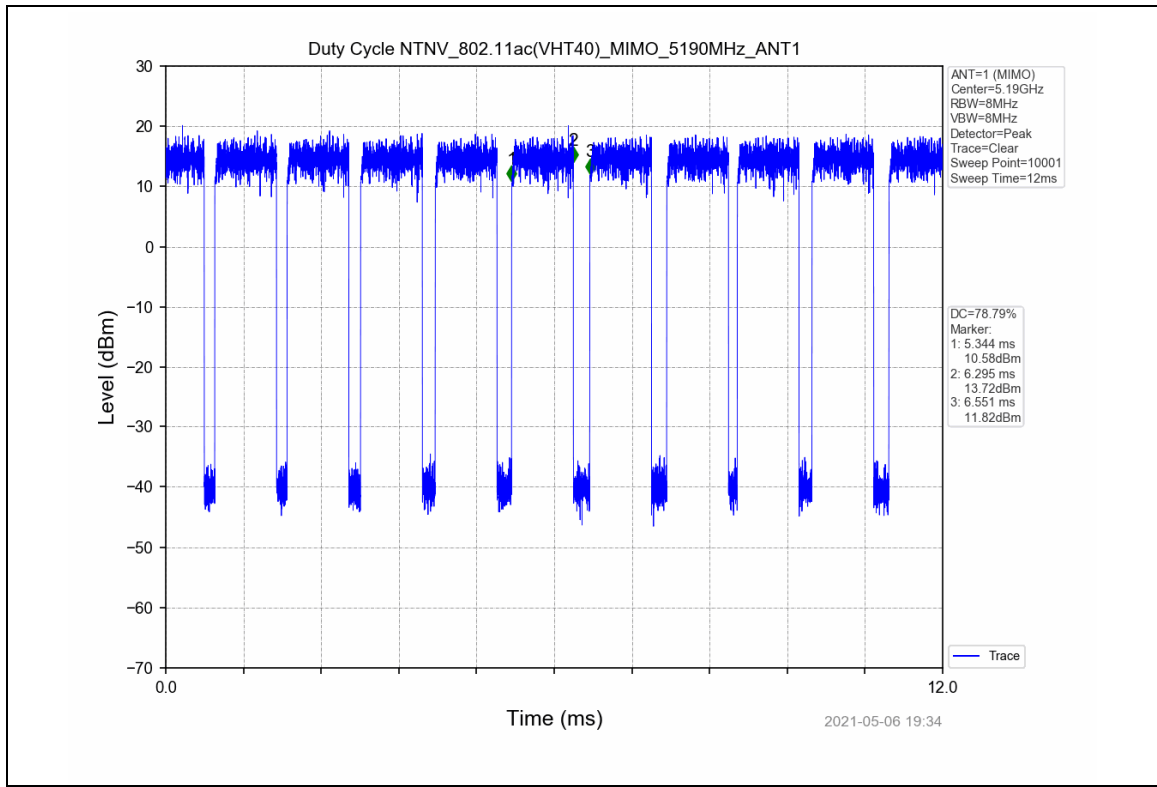


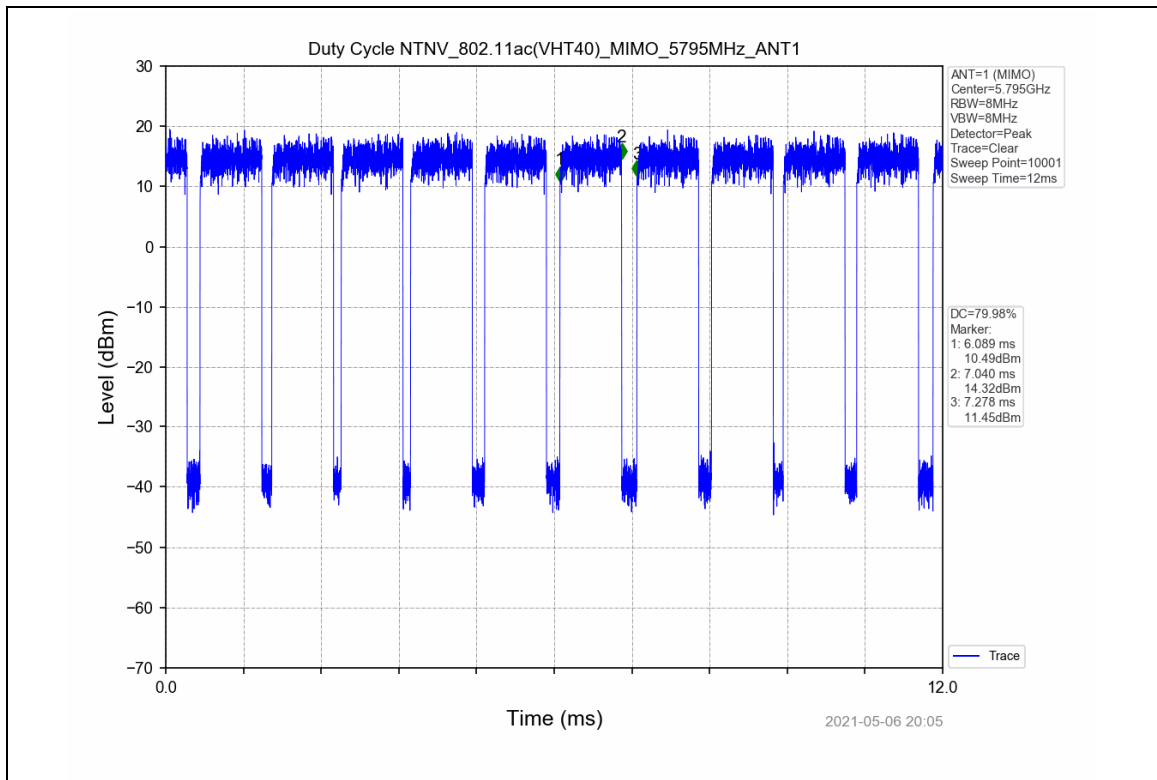
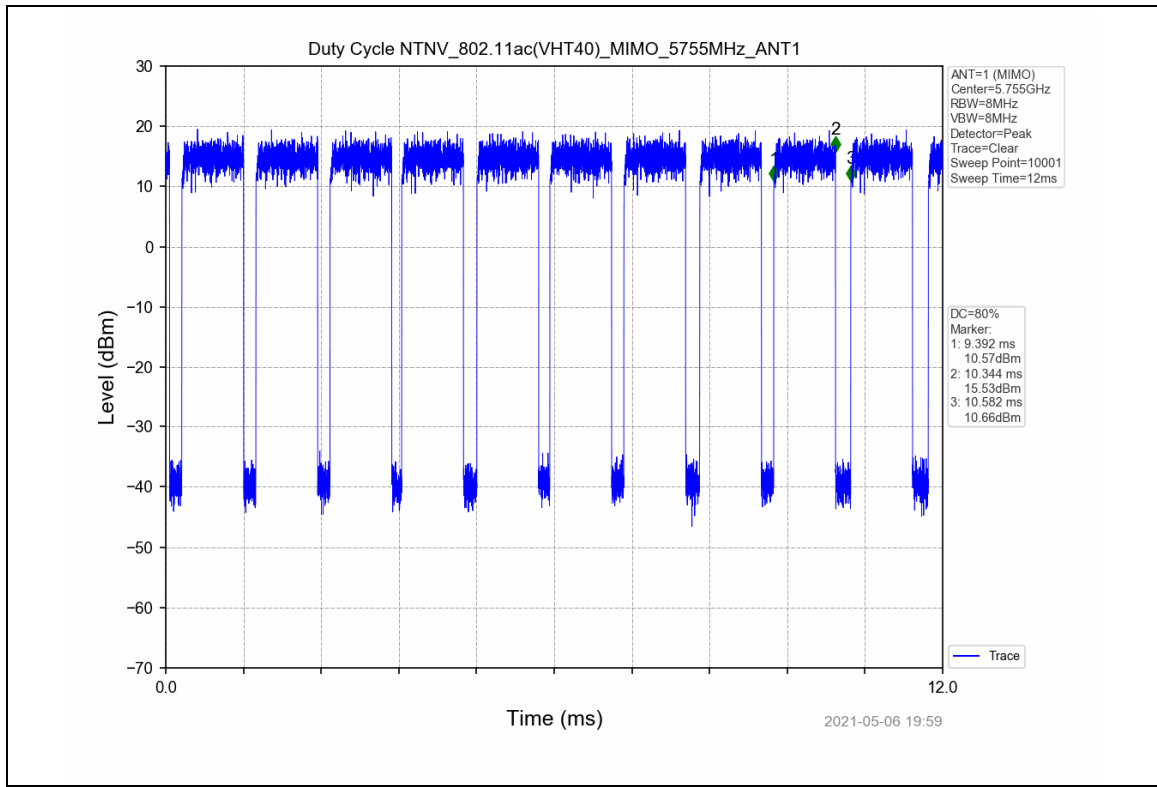


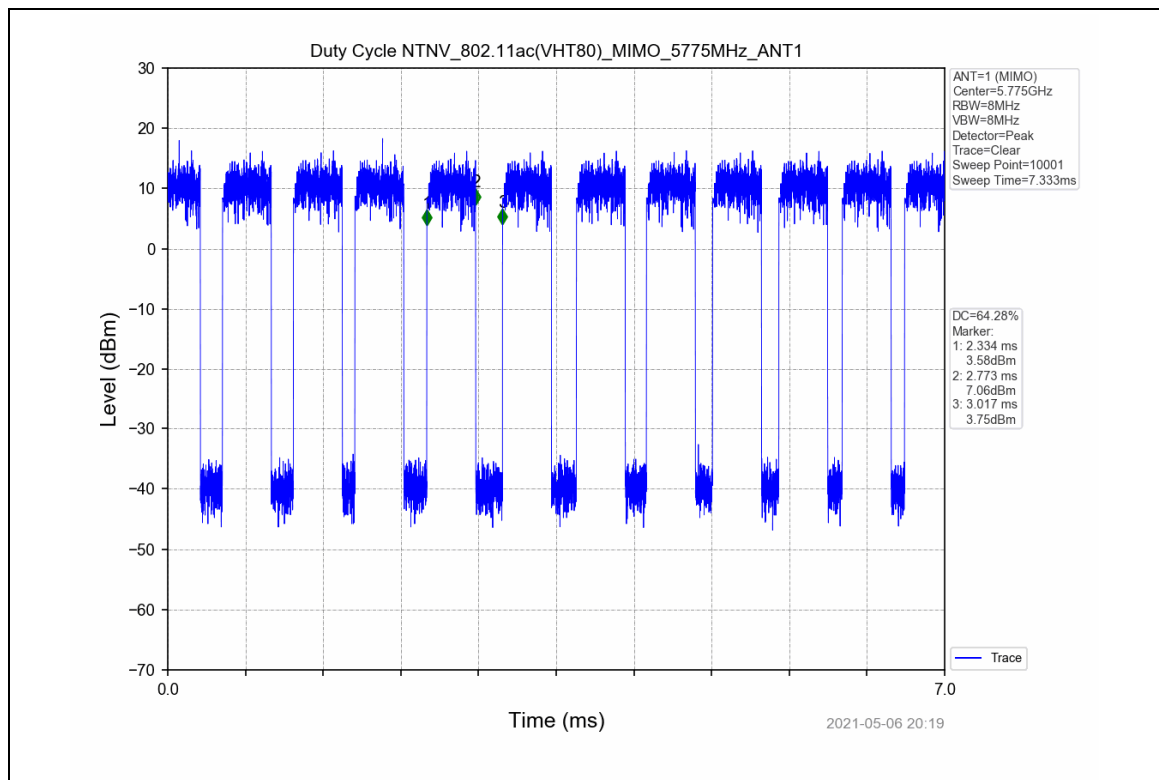
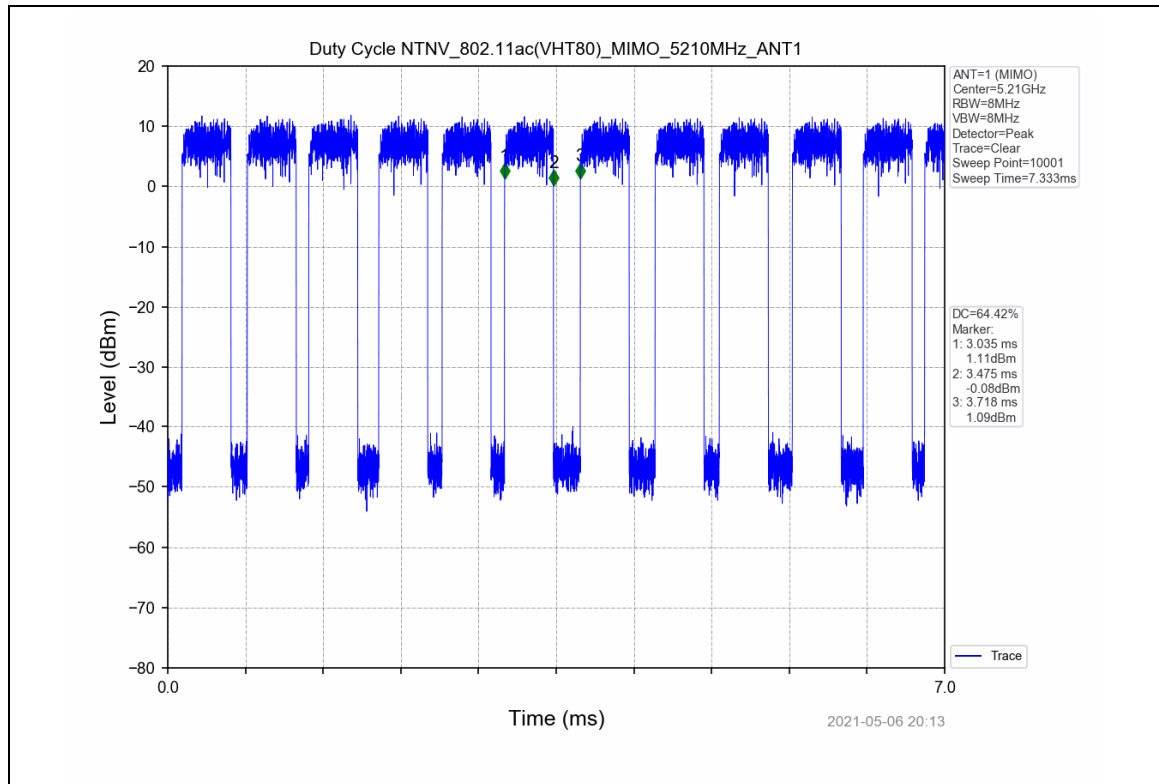












2. Bandwidth

2.1 Test Result

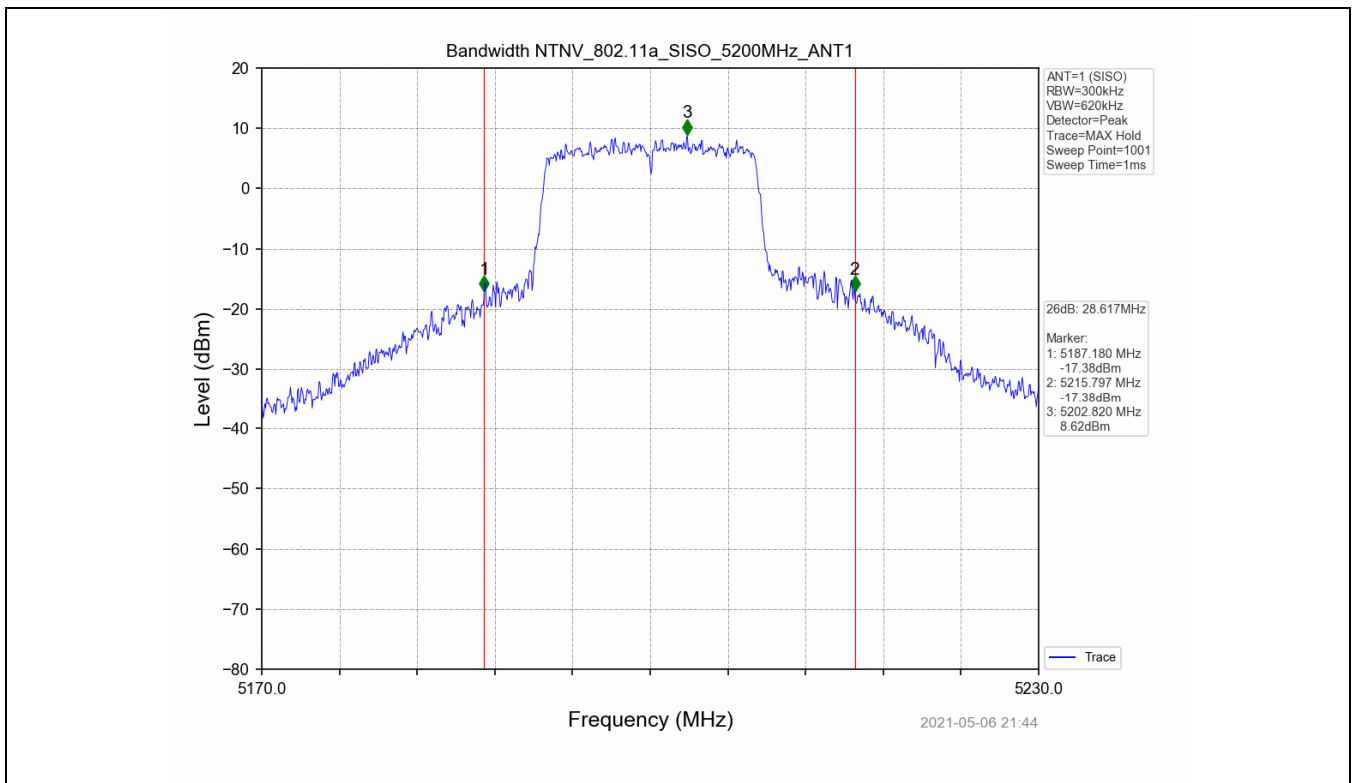
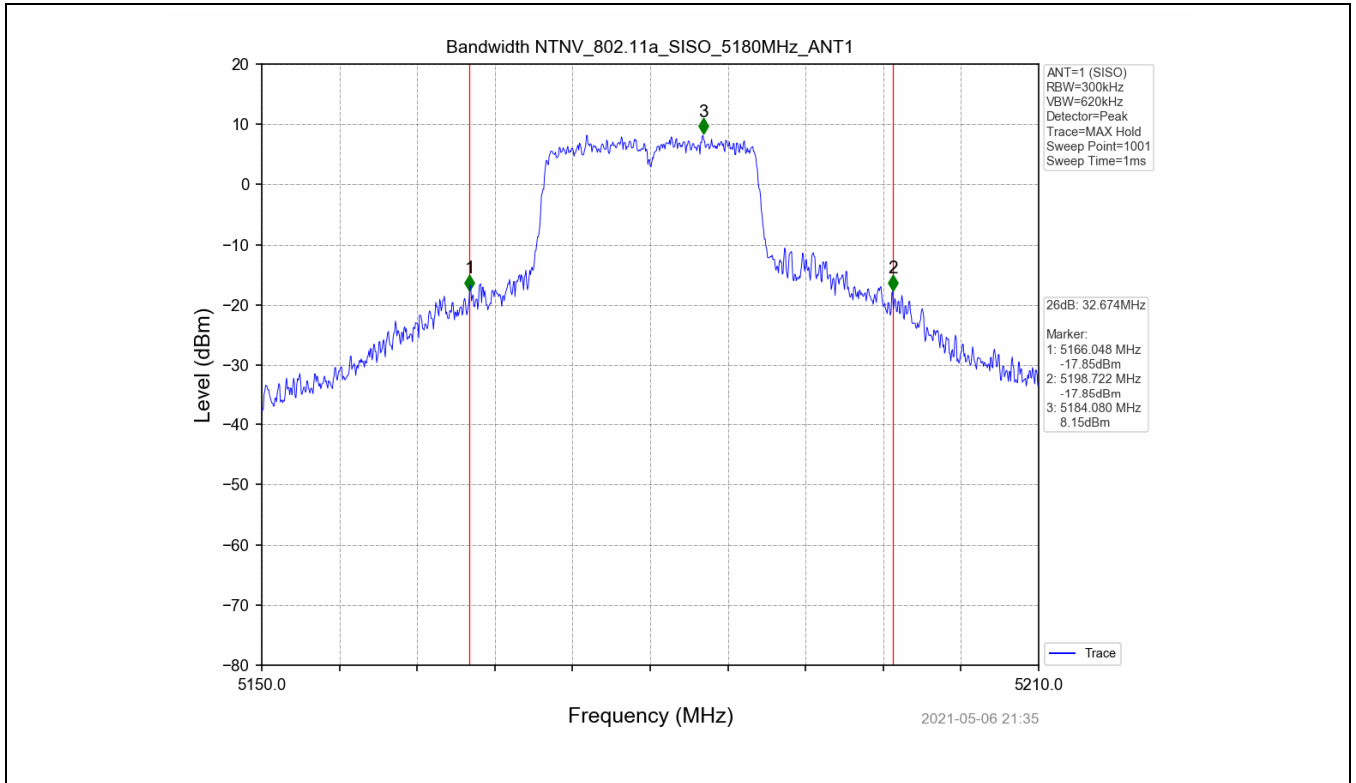
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5180	SISO	1	32.674	Only for Report Use	PASS
	5200	SISO	1	28.617	Only for Report Use	PASS
	5240	SISO	1	26.724	Only for Report Use	PASS
802.11n(HT20)	5180	MIMO	1	25.085	Only for Report Use	PASS
	5200	MIMO	1	27.097	Only for Report Use	PASS
	5240	MIMO	1	21.533	Only for Report Use	PASS
802.11n(HT40)	5190	MIMO	1	52.053	Only for Report Use	PASS
	5230	MIMO	1	45.308	Only for Report Use	PASS
802.11ac(VHT20)	5180	MIMO	1	27.622	Only for Report Use	PASS
	5200	MIMO	1	28.395	Only for Report Use	PASS
	5240	MIMO	1	26.973	Only for Report Use	PASS
802.11ac(VHT40)	5190	MIMO	1	49.258	Only for Report Use	PASS
	5230	MIMO	1	41.332	Only for Report Use	PASS
802.11ac(VHT80)	5210	MIMO	1	81.016	Only for Report Use	PASS

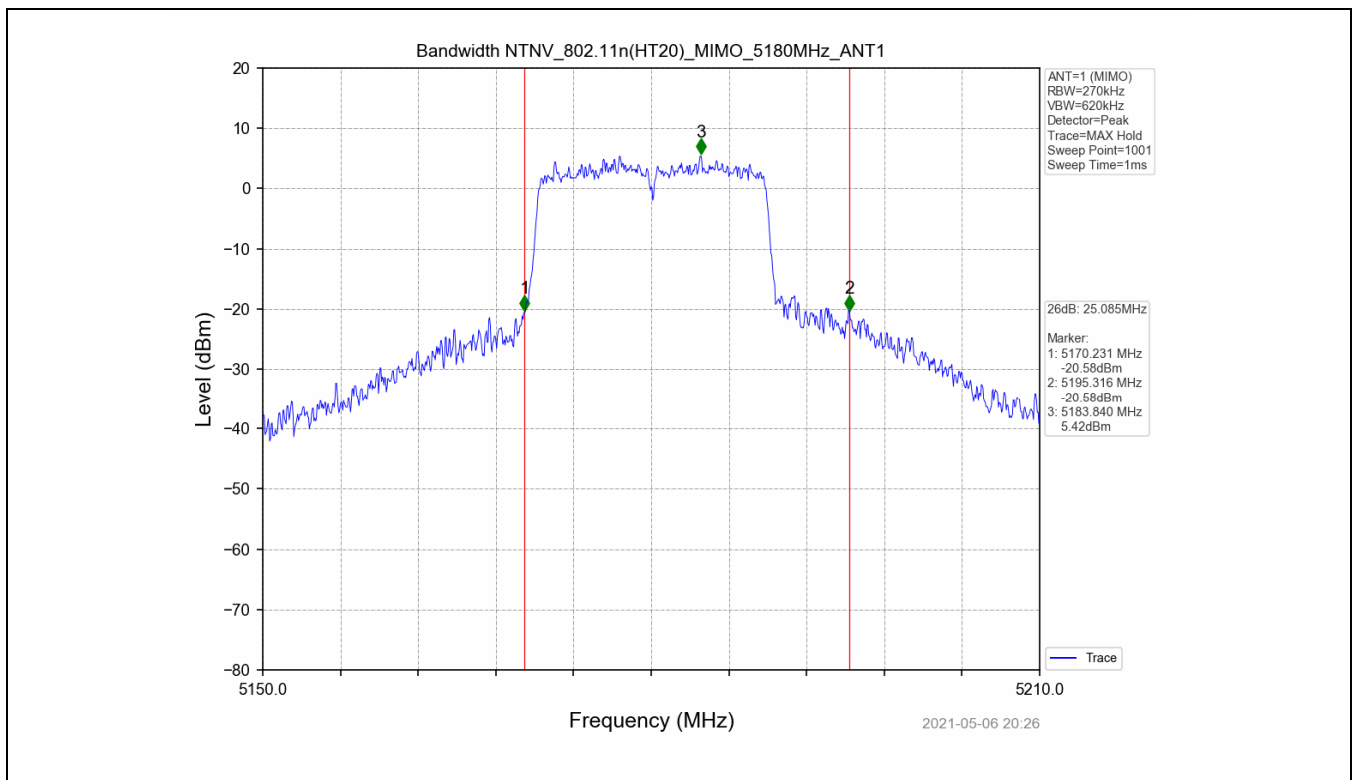
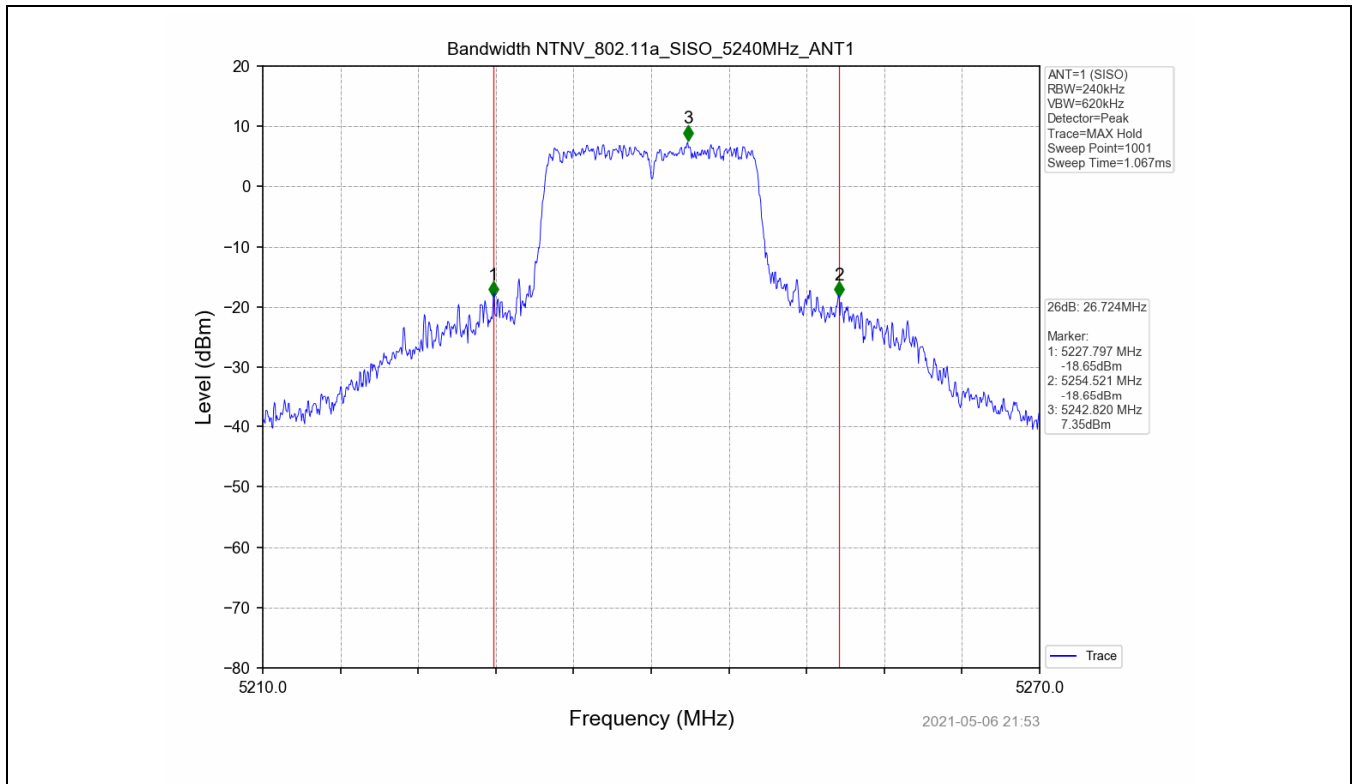
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5745	SISO	1	16.392	≥0.5	PASS
	5785	SISO	1	16.131	≥0.5	PASS
	5825	SISO	1	16.332	≥0.5	PASS
802.11n(HT20)	5745	MIMO	1	17.015	≥0.5	PASS
	5785	MIMO	1	17.602	≥0.5	PASS
	5825	MIMO	1	17.600	≥0.5	PASS
802.11n(HT40)	5755	MIMO	1	35.215	≥0.5	PASS
	5795	MIMO	1	35.037	≥0.5	PASS
802.11ac(VHT20)	5745	MIMO	1	17.285	≥0.5	PASS
	5785	MIMO	1	17.289	≥0.5	PASS
	5825	MIMO	1	17.605	≥0.5	PASS
802.11ac(VHT40)	5755	MIMO	1	35.103	≥0.5	PASS
	5795	MIMO	1	35.317	≥0.5	PASS
802.11ac(VHT80)	5775	MIMO	1	74.033	≥0.5	PASS

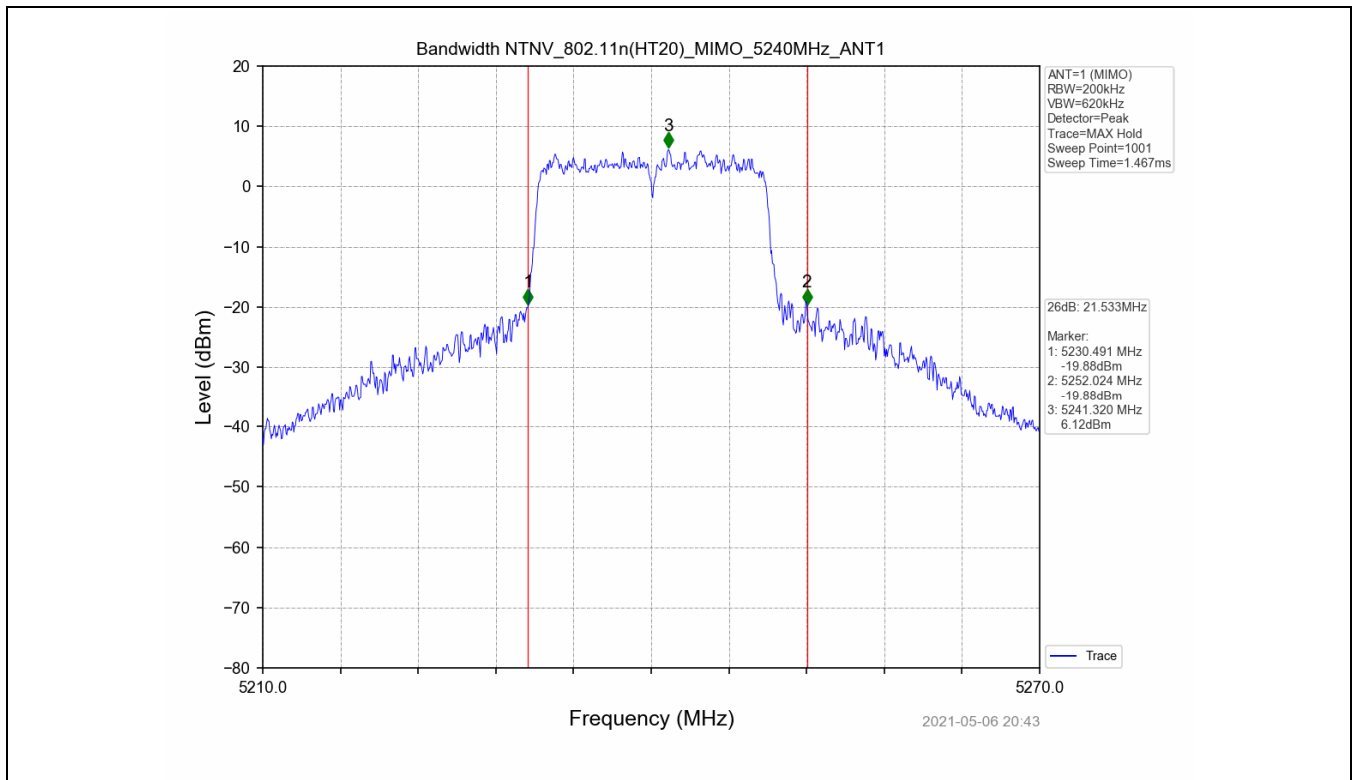
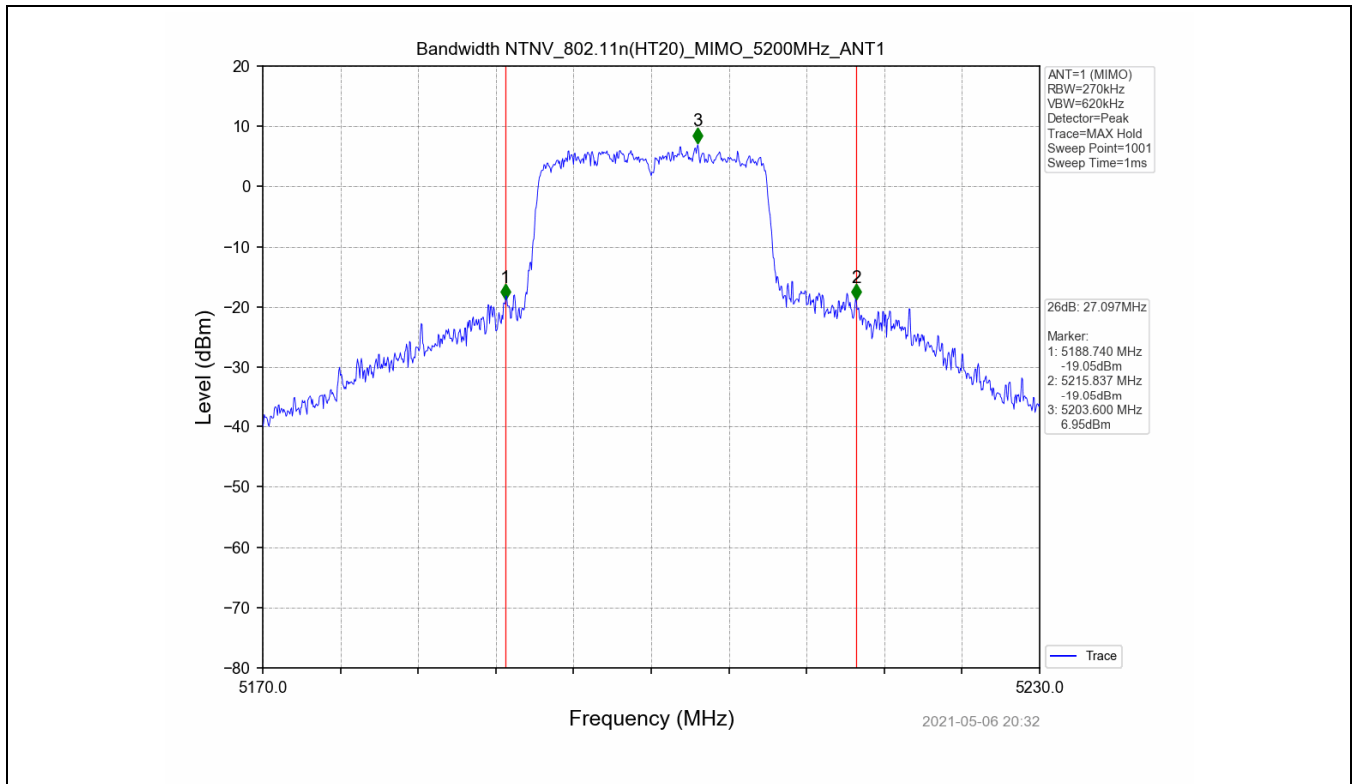
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5180	SISO	1	16.936	Only for Report Use
	5200	SISO	1	16.789	Only for Report Use
	5240	SISO	1	16.616	Only for Report Use
	5745	SISO	1	16.702	Only for Report Use
	5785	SISO	1	16.574	Only for Report Use
	5825	SISO	1	16.535	Only for Report Use
802.11n(HT20)	5180	MIMO	1	17.723	Only for Report Use
	5200	MIMO	1	17.730	Only for Report Use
	5240	MIMO	1	17.679	Only for Report Use
	5745	MIMO	1	17.697	Only for Report Use
	5785	MIMO	1	17.663	Only for Report Use
	5825	MIMO	1	17.747	Only for Report Use
802.11n(HT40)	5190	MIMO	1	36.496	Only for Report Use
	5230	MIMO	1	36.548	Only for Report Use
	5755	MIMO	1	36.597	Only for Report Use
	5795	MIMO	1	36.400	Only for Report Use
802.11ac(VHT20)	5180	MIMO	1	17.760	Only for Report Use
	5200	MIMO	1	17.900	Only for Report Use
	5240	MIMO	1	17.834	Only for Report Use
	5745	MIMO	1	17.844	Only for Report Use
	5785	MIMO	1	17.732	Only for Report Use
	5825	MIMO	1	17.734	Only for Report Use
802.11ac(VHT40)	5190	MIMO	1	36.679	Only for Report Use
	5230	MIMO	1	36.456	Only for Report Use
	5755	MIMO	1	36.711	Only for Report Use
	5795	MIMO	1	36.437	Only for Report Use
802.11ac(VHT80)	5210	MIMO	1	74.497	Only for Report Use
	5775	MIMO	1	74.914	Only for Report Use

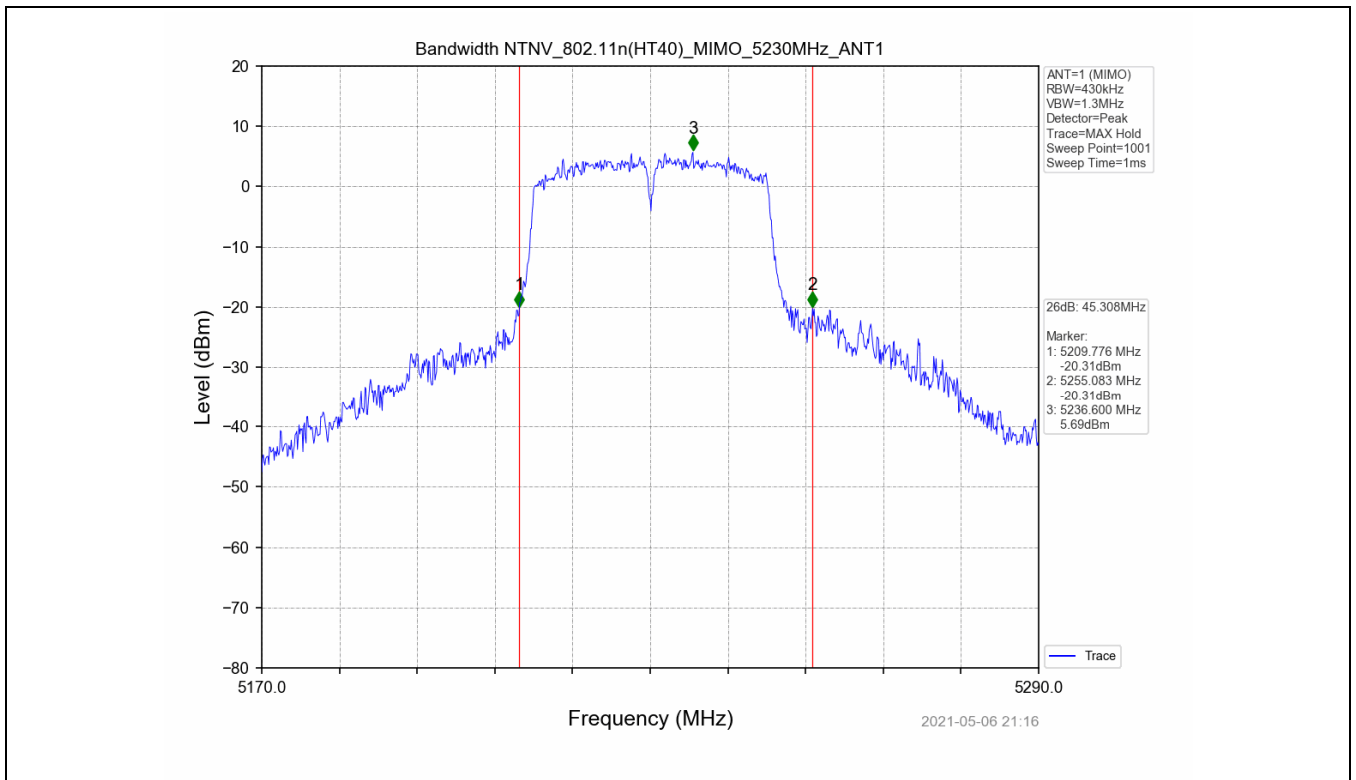
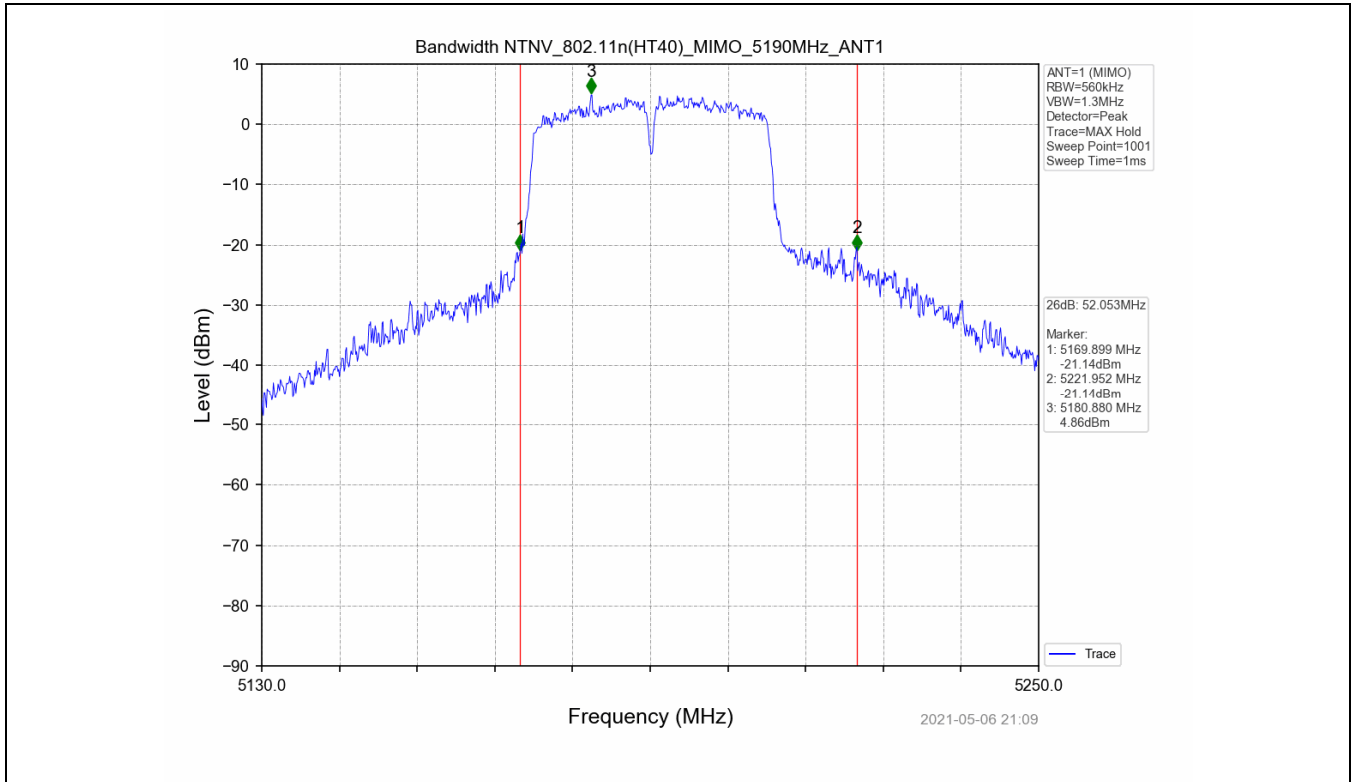


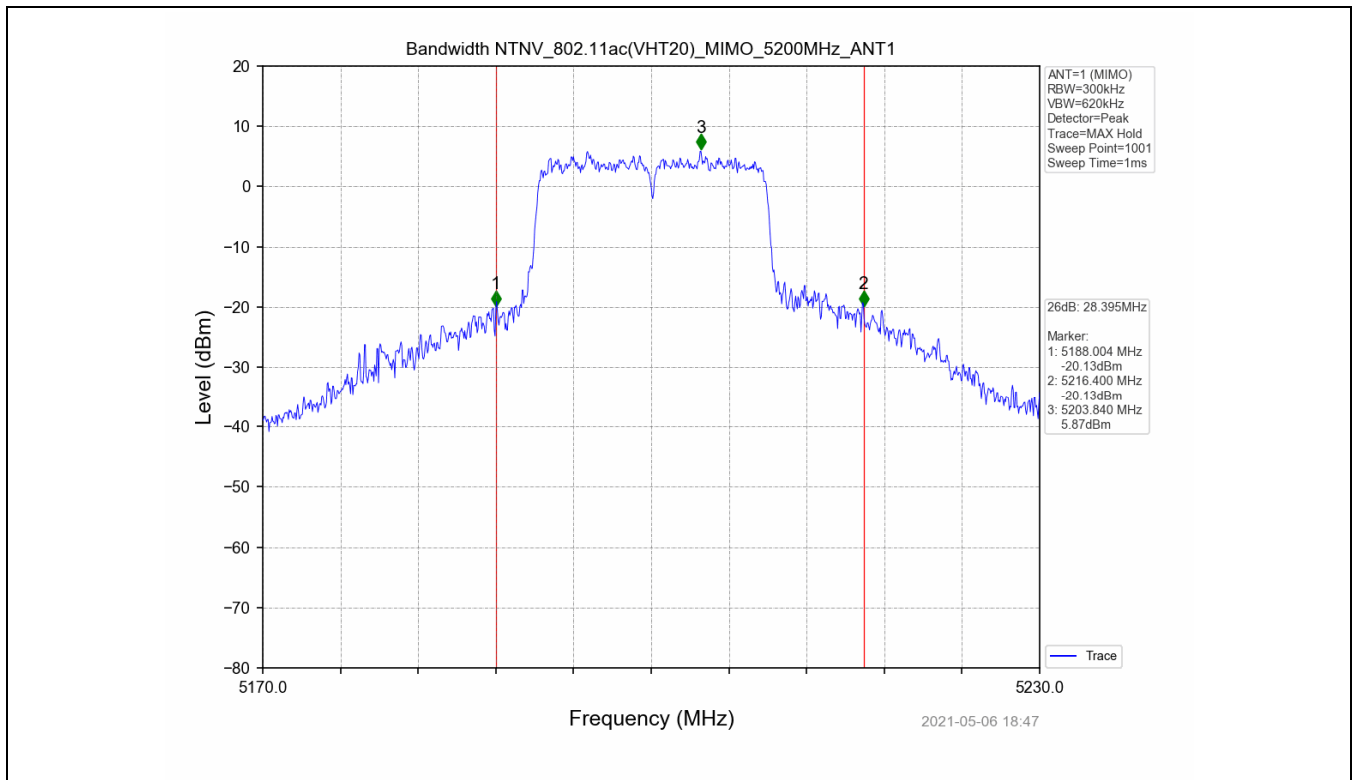
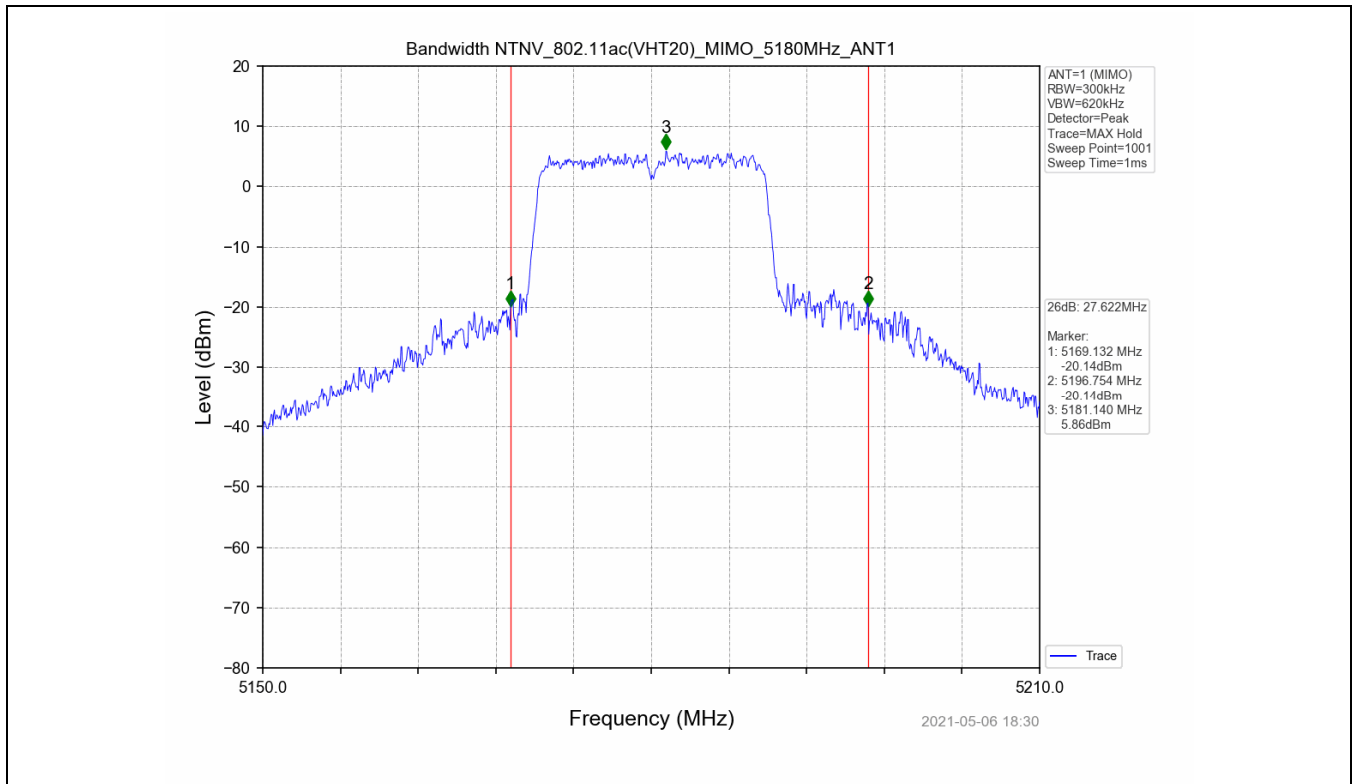
2.2 Test Graph - Emission Bandwidth

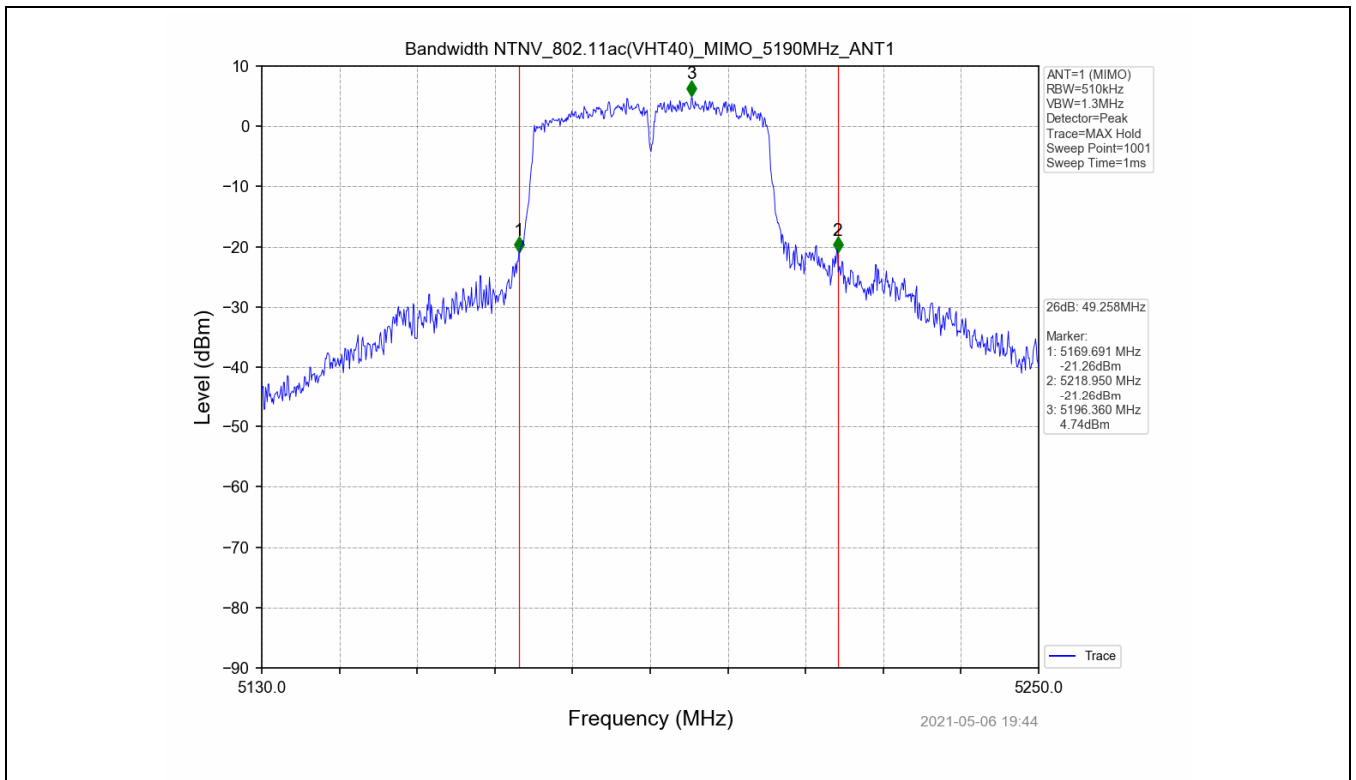
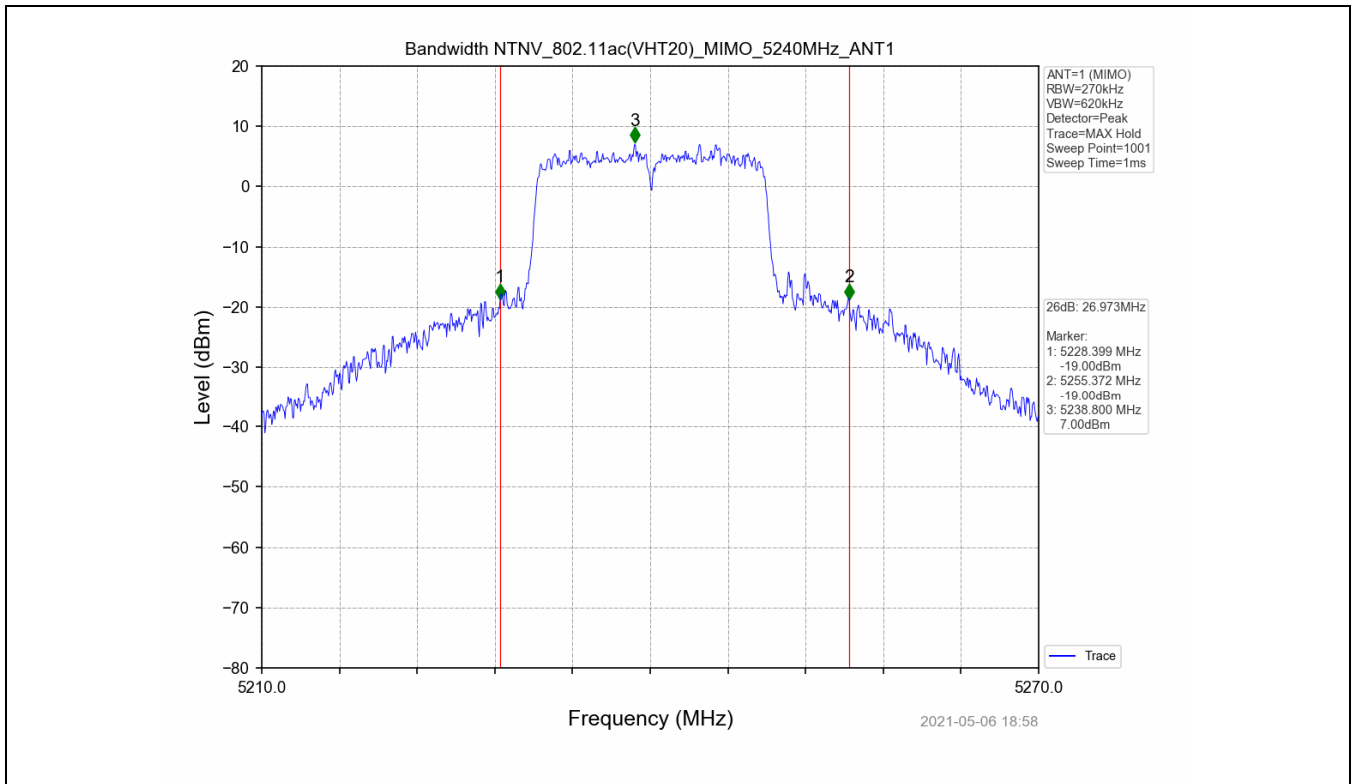


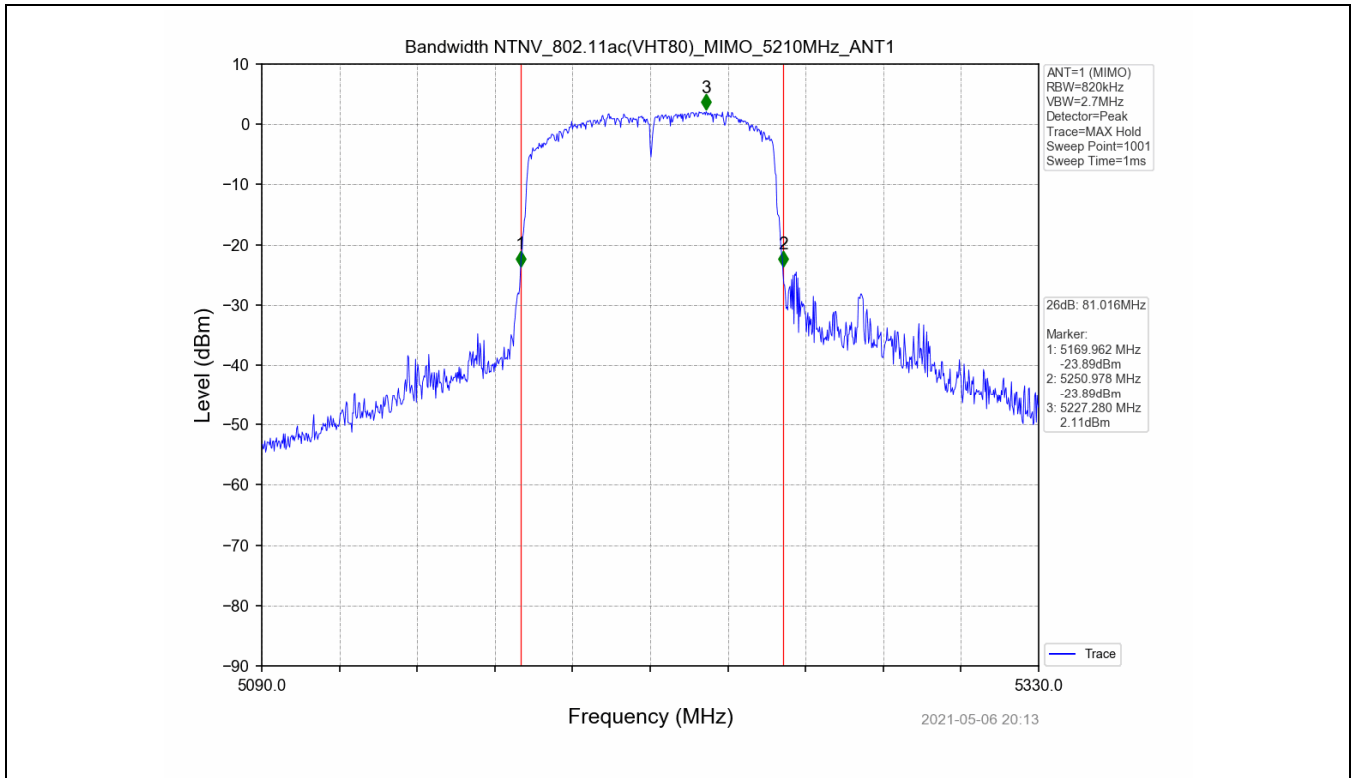
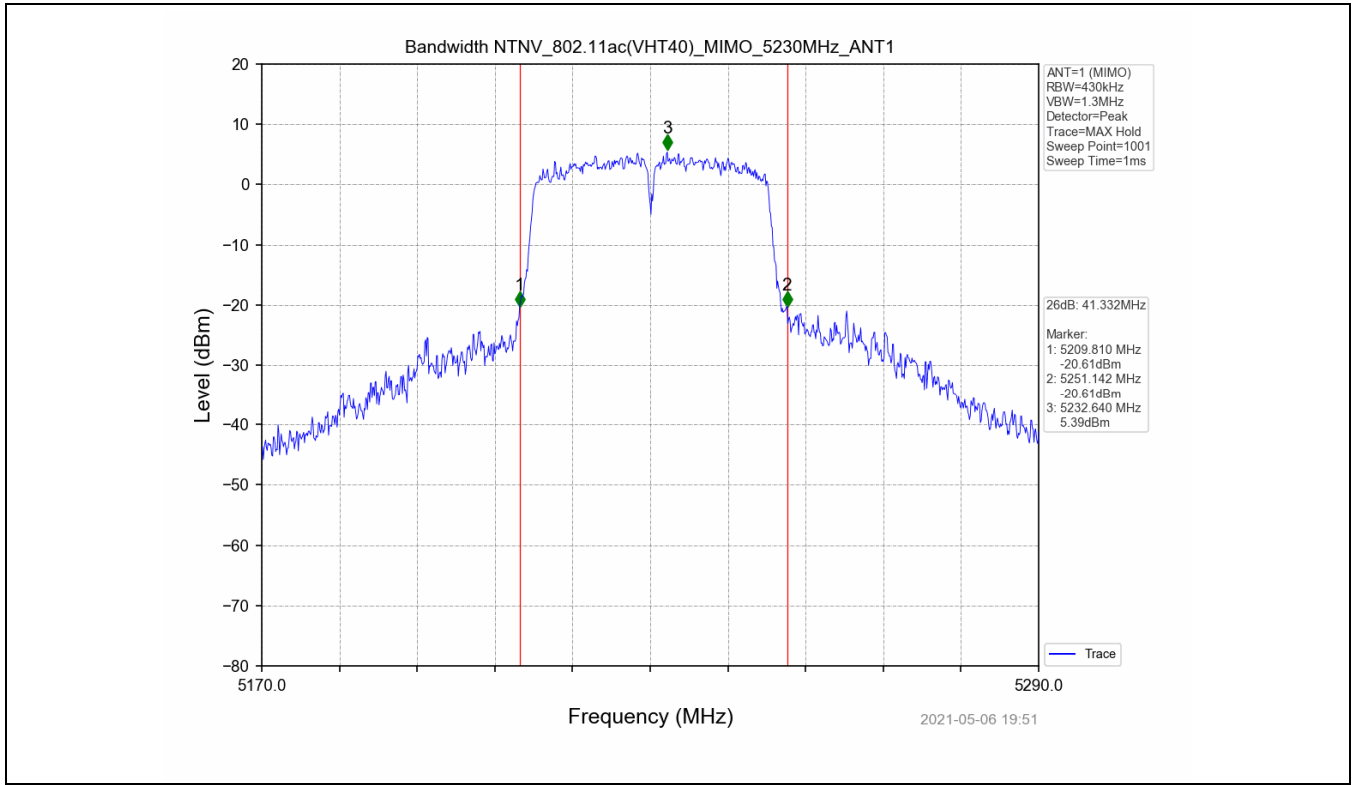


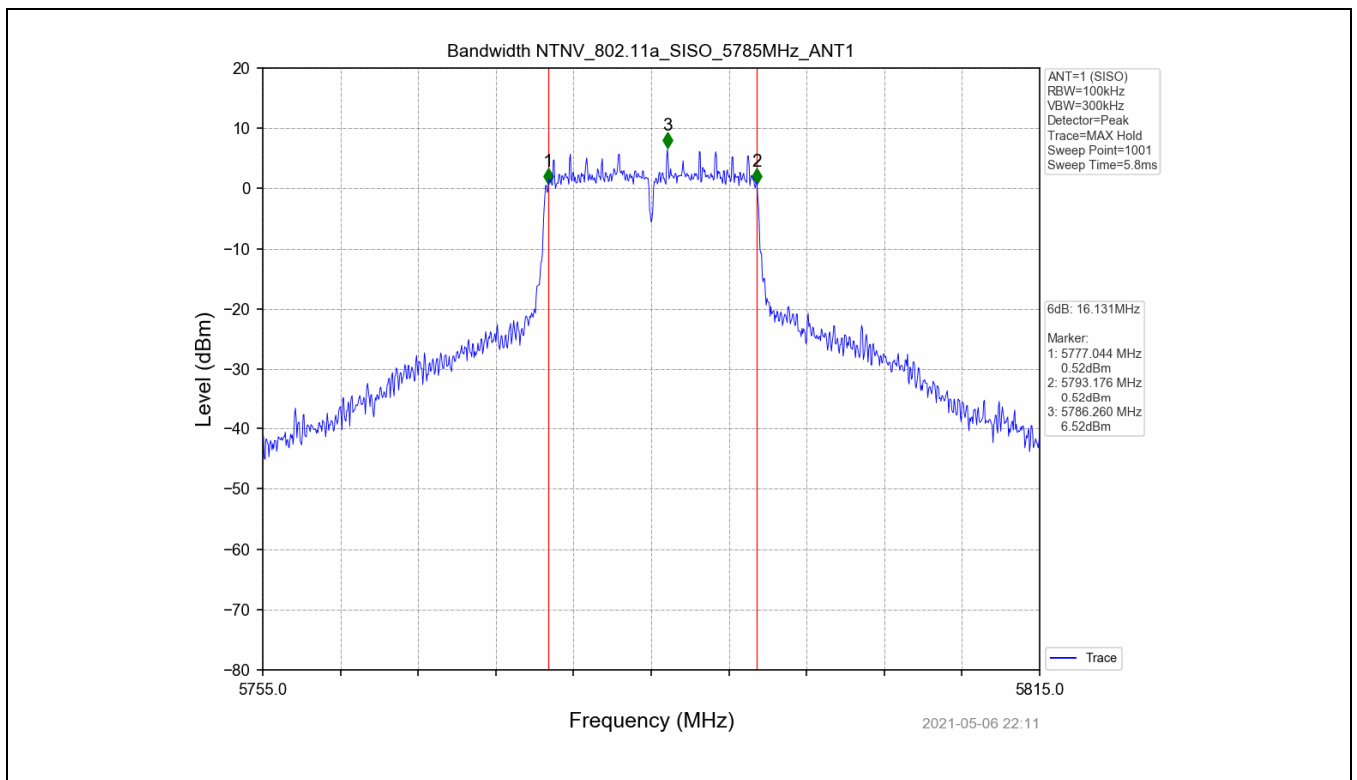
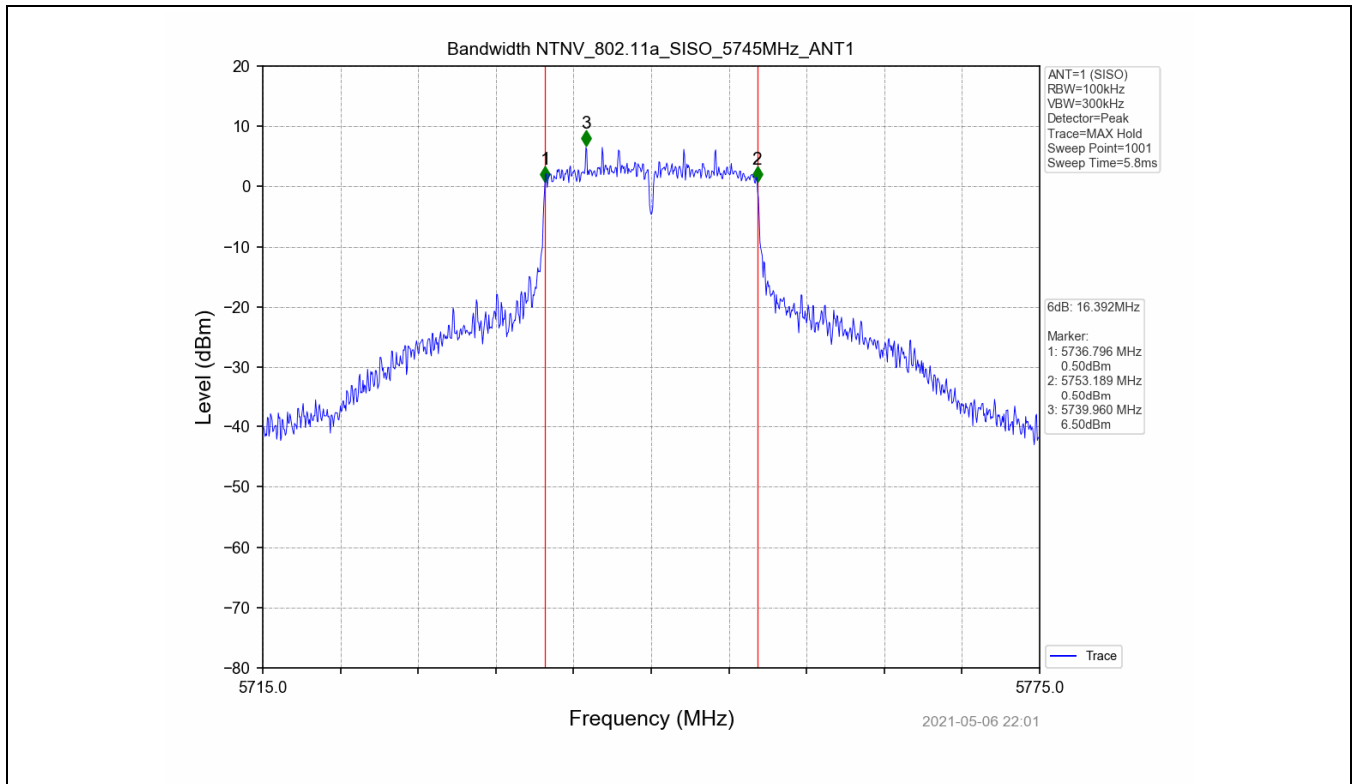


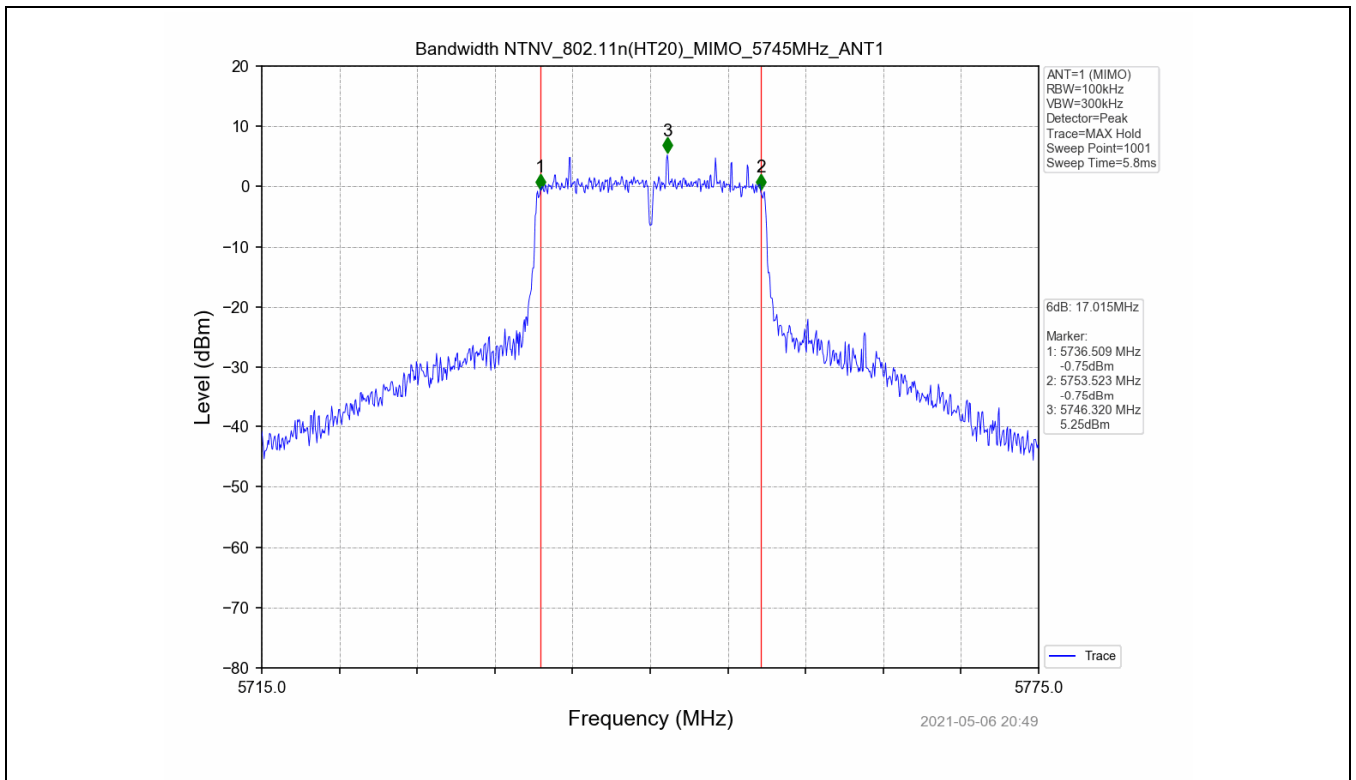
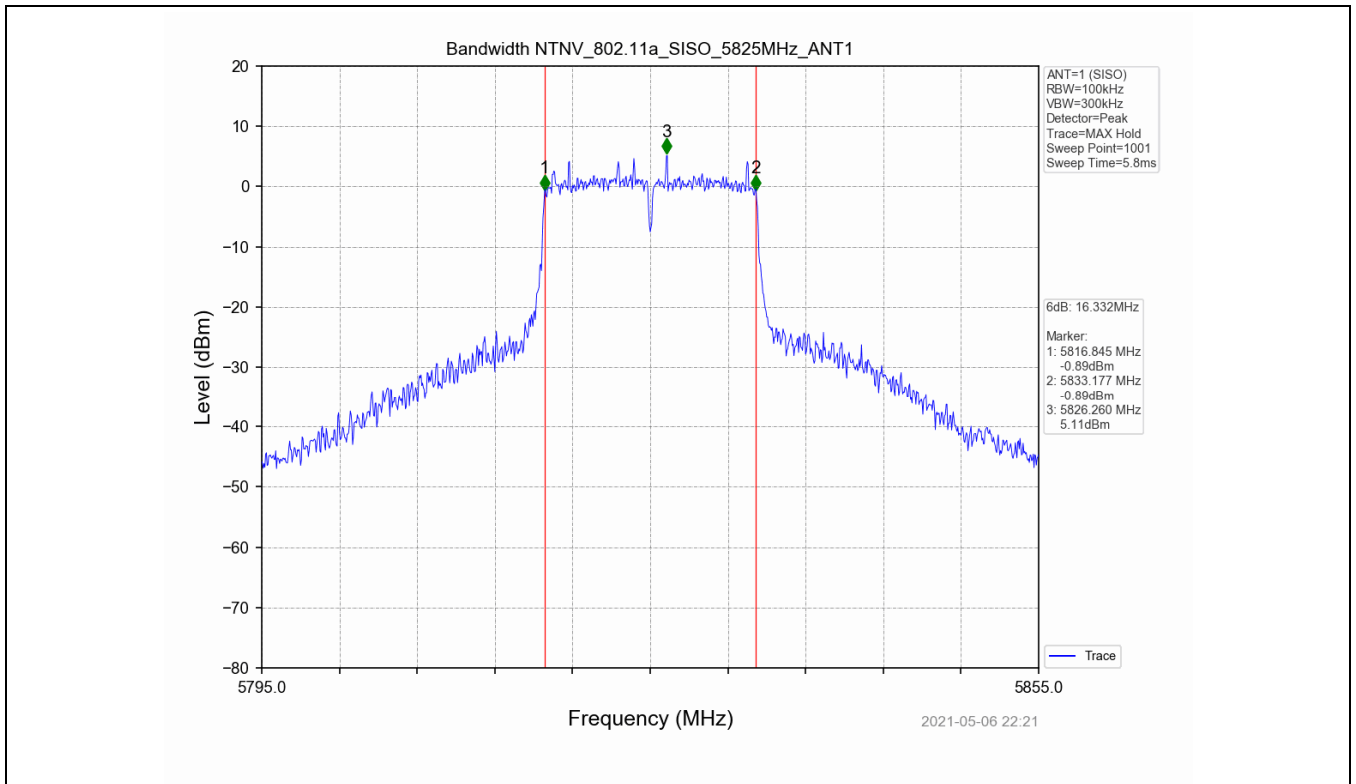


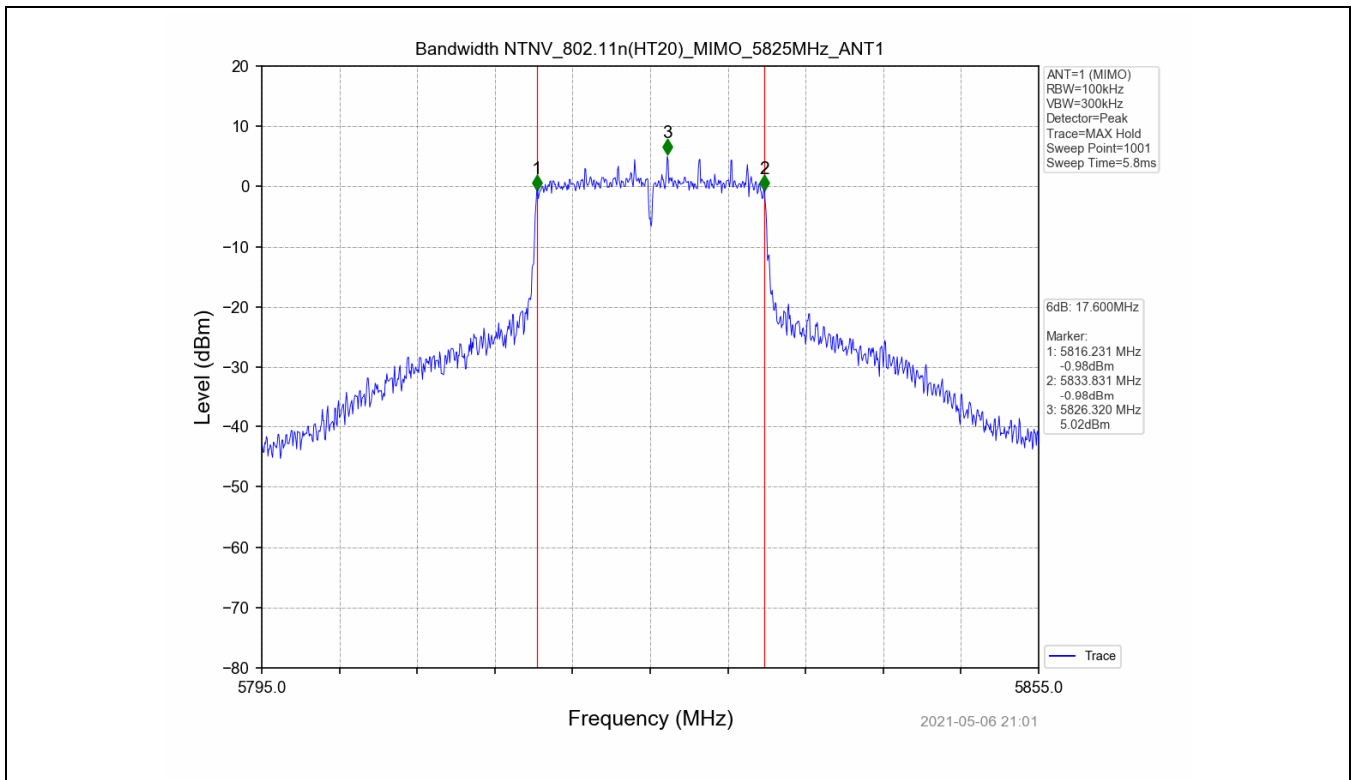
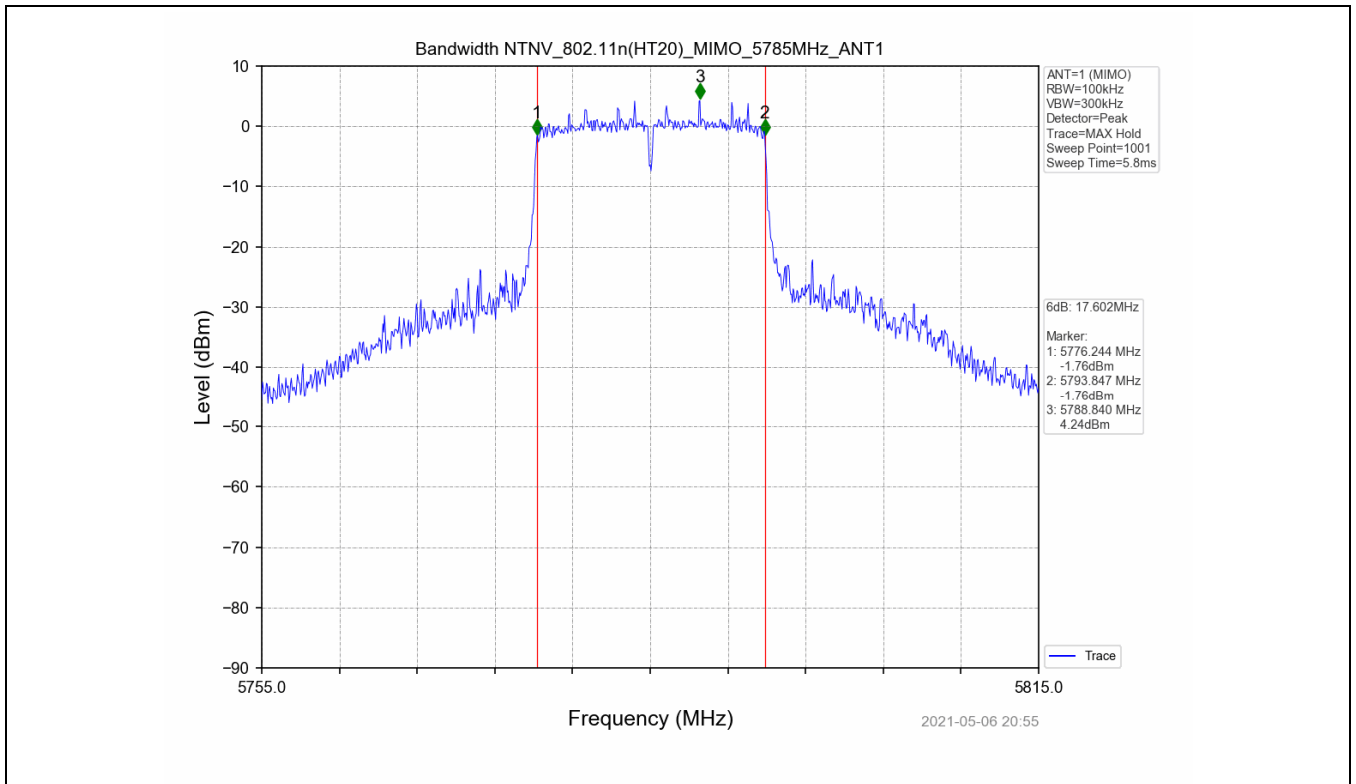


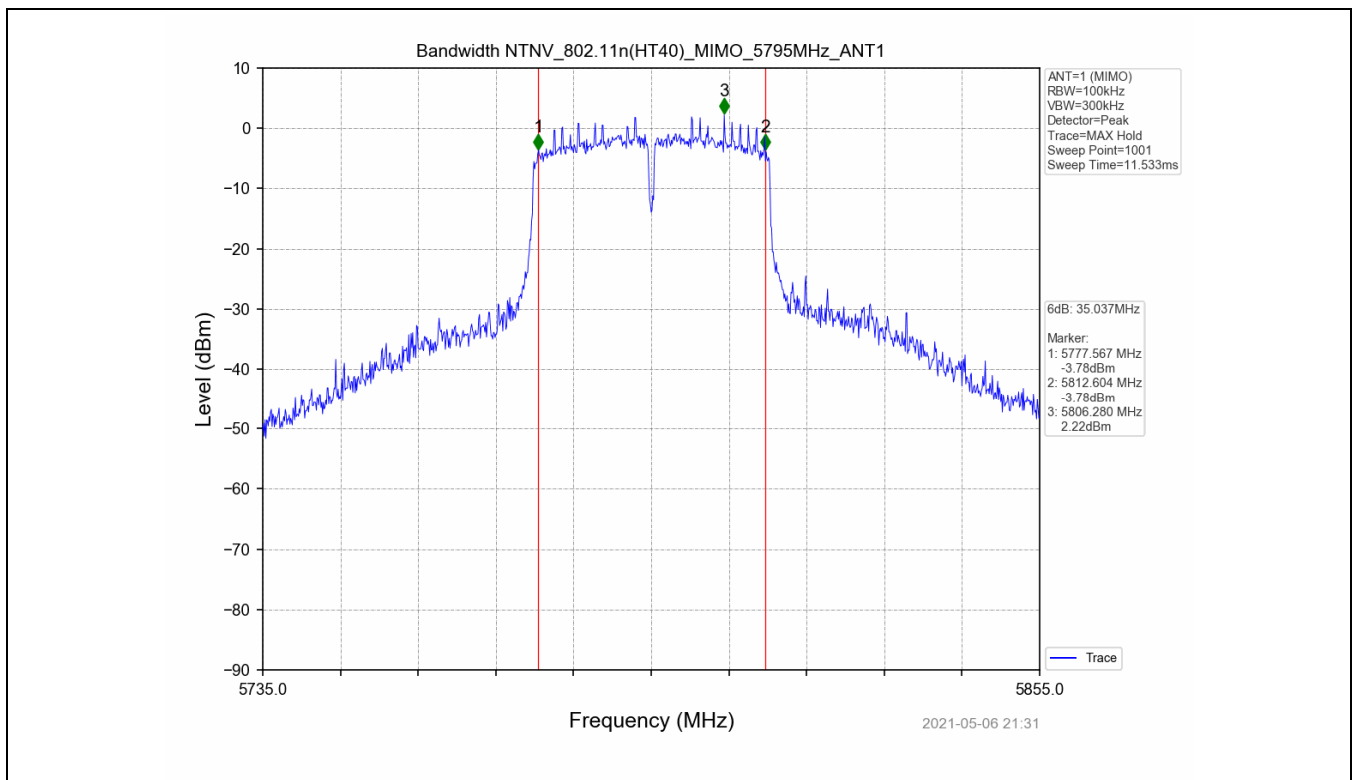
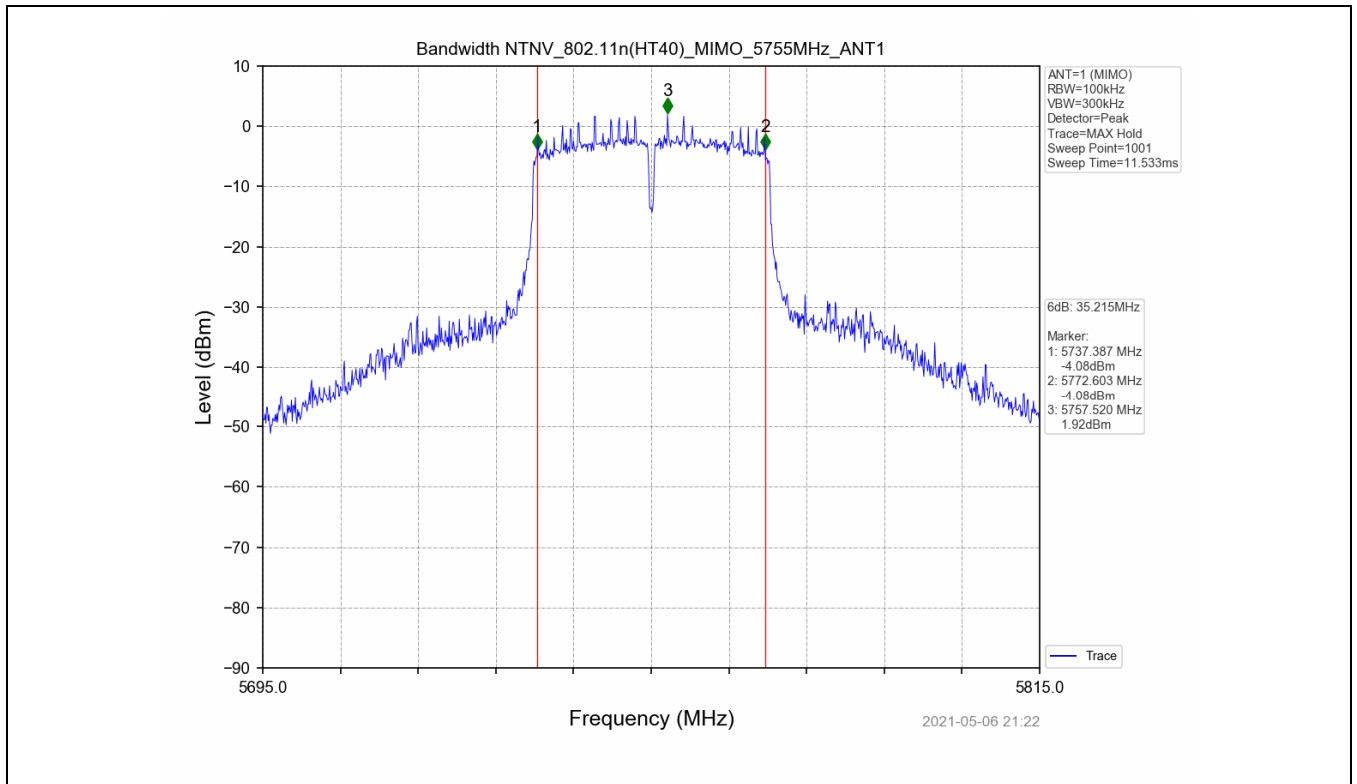


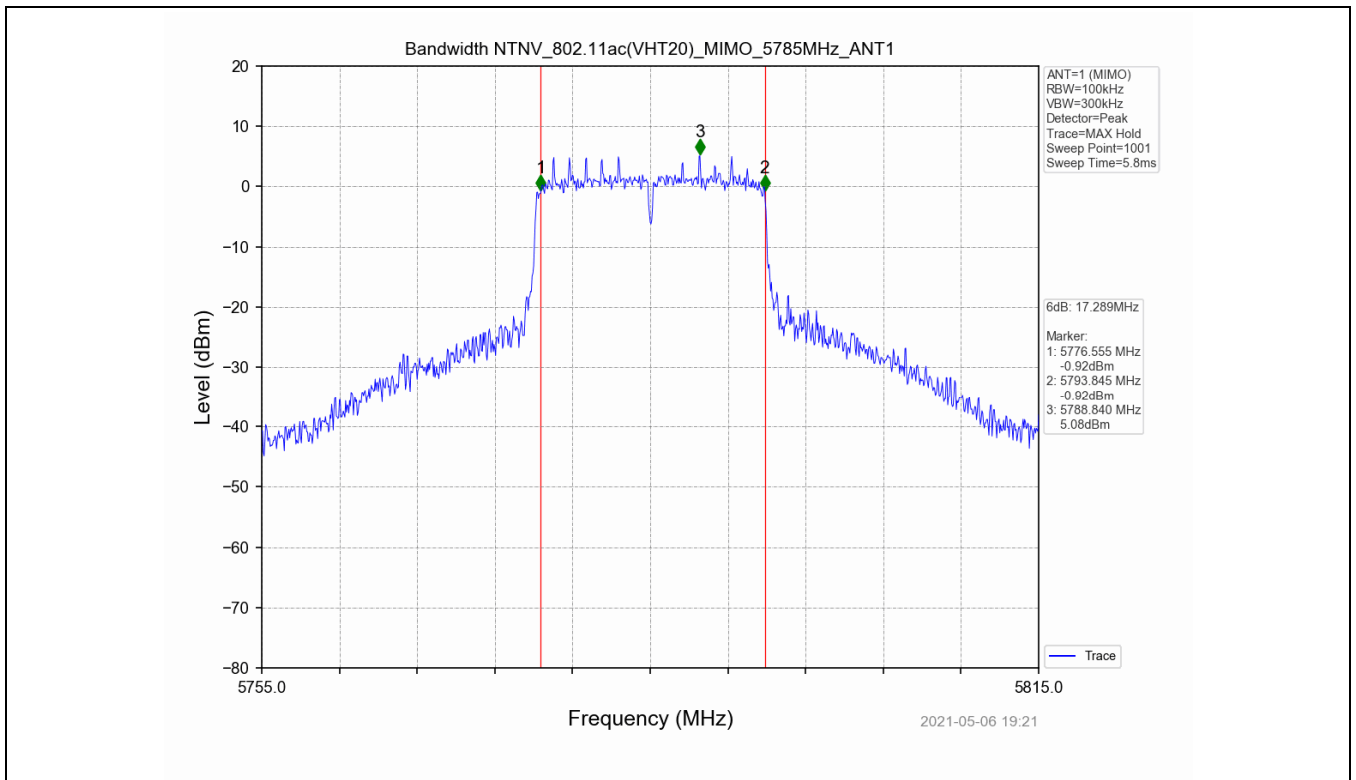
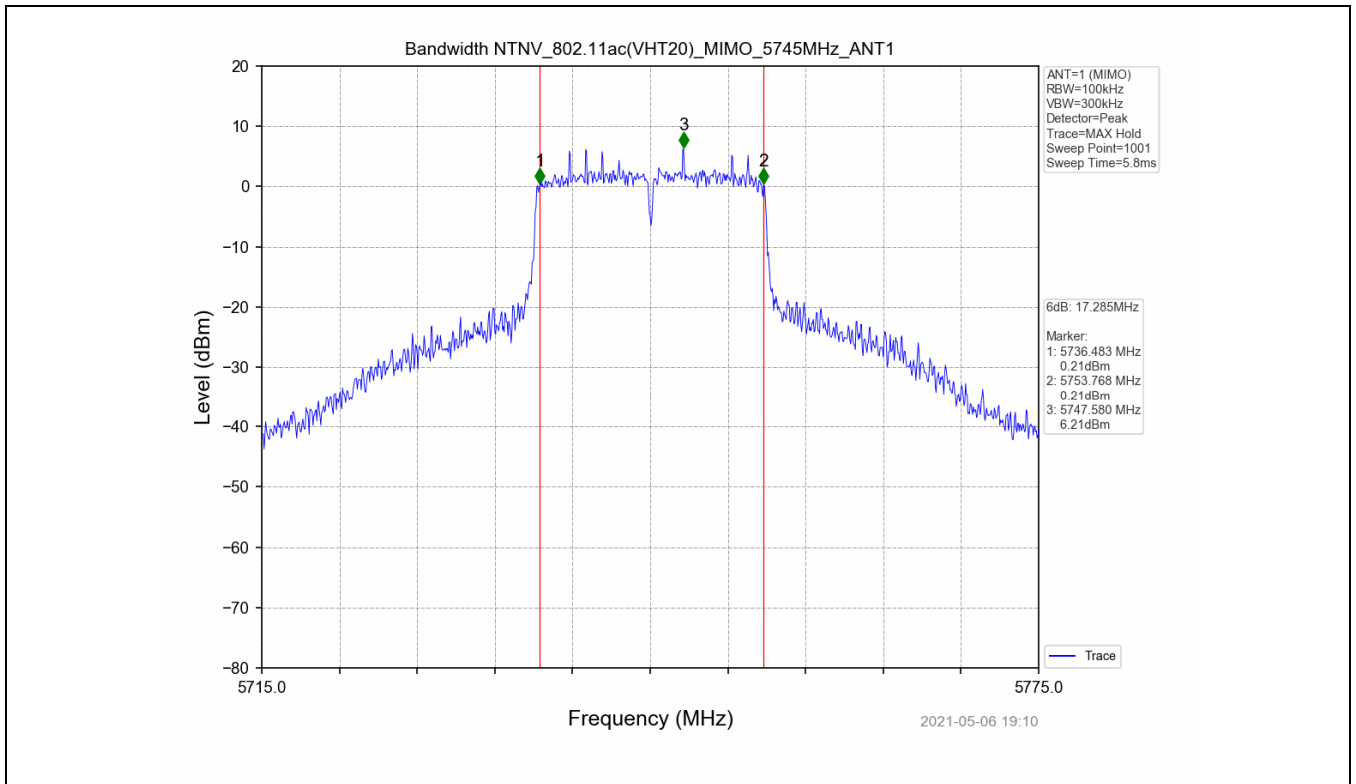


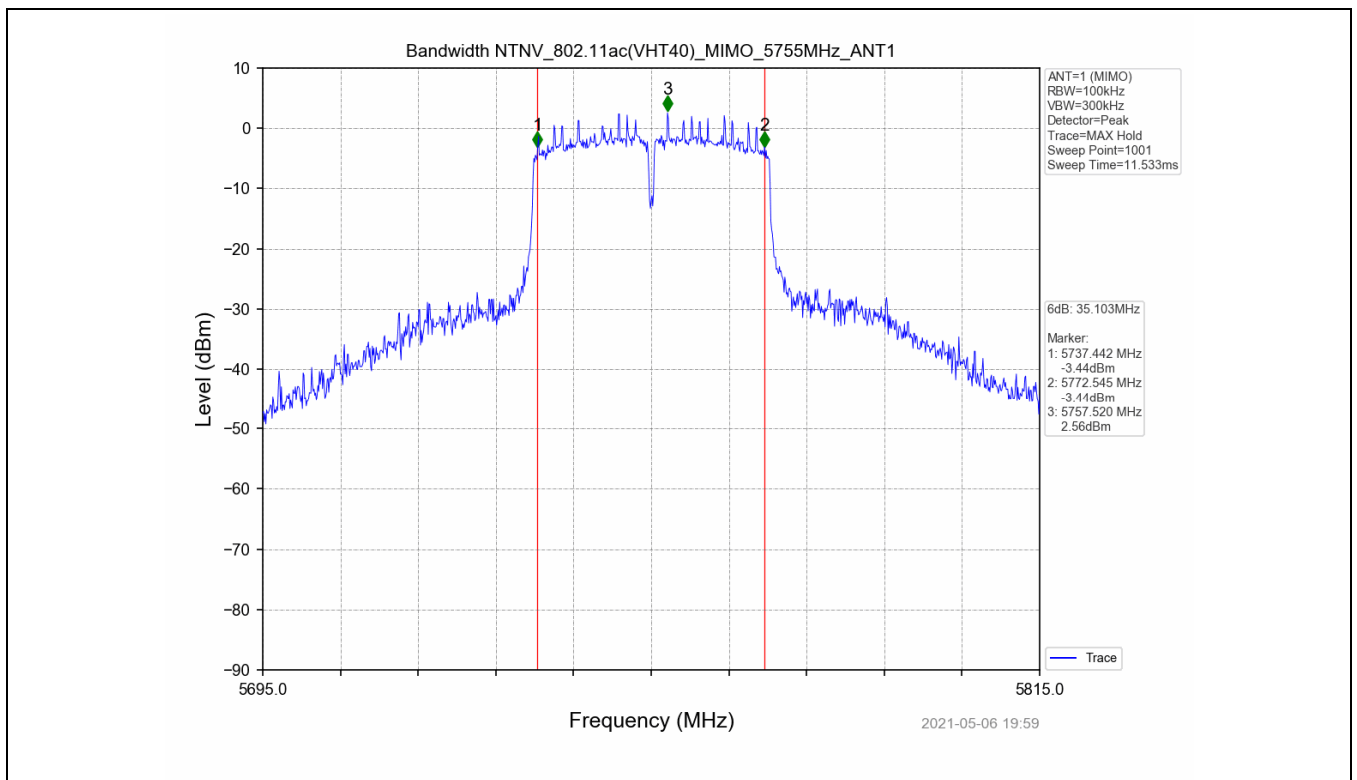
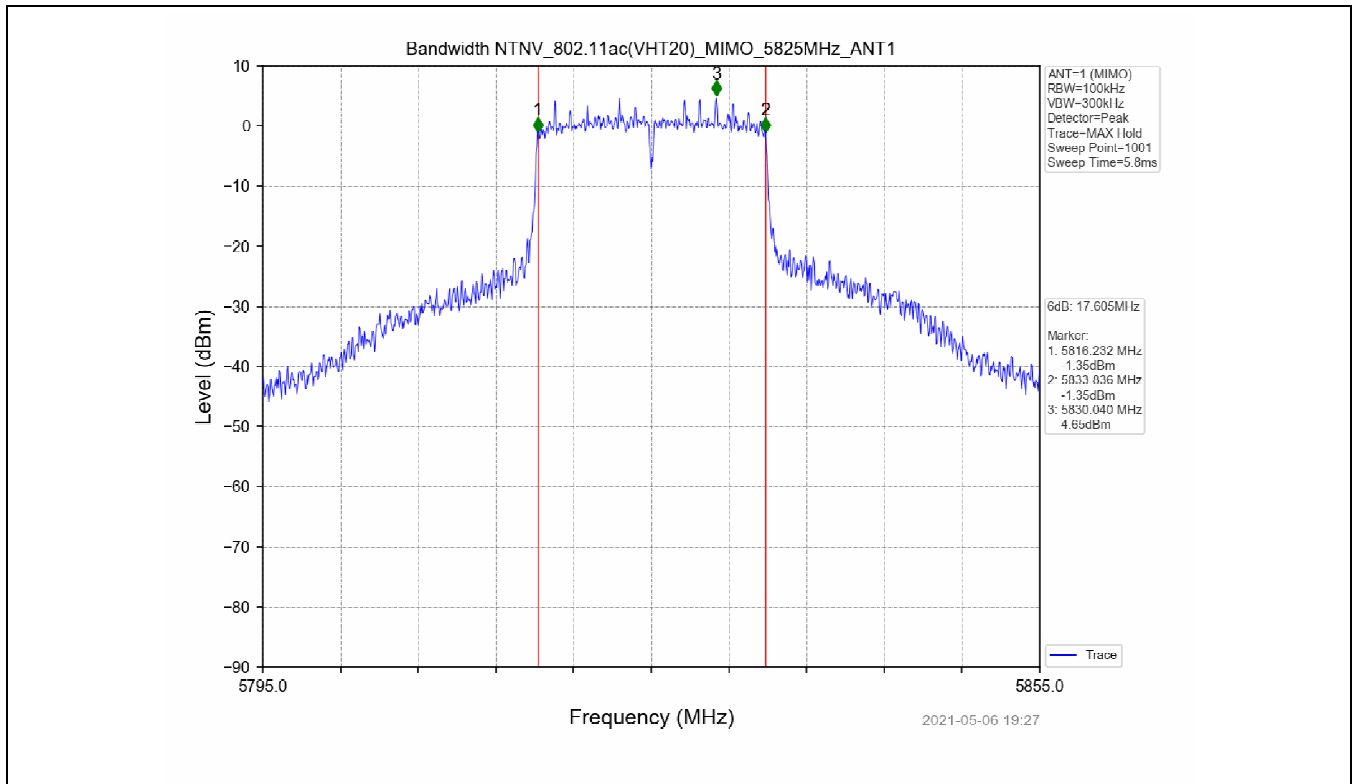


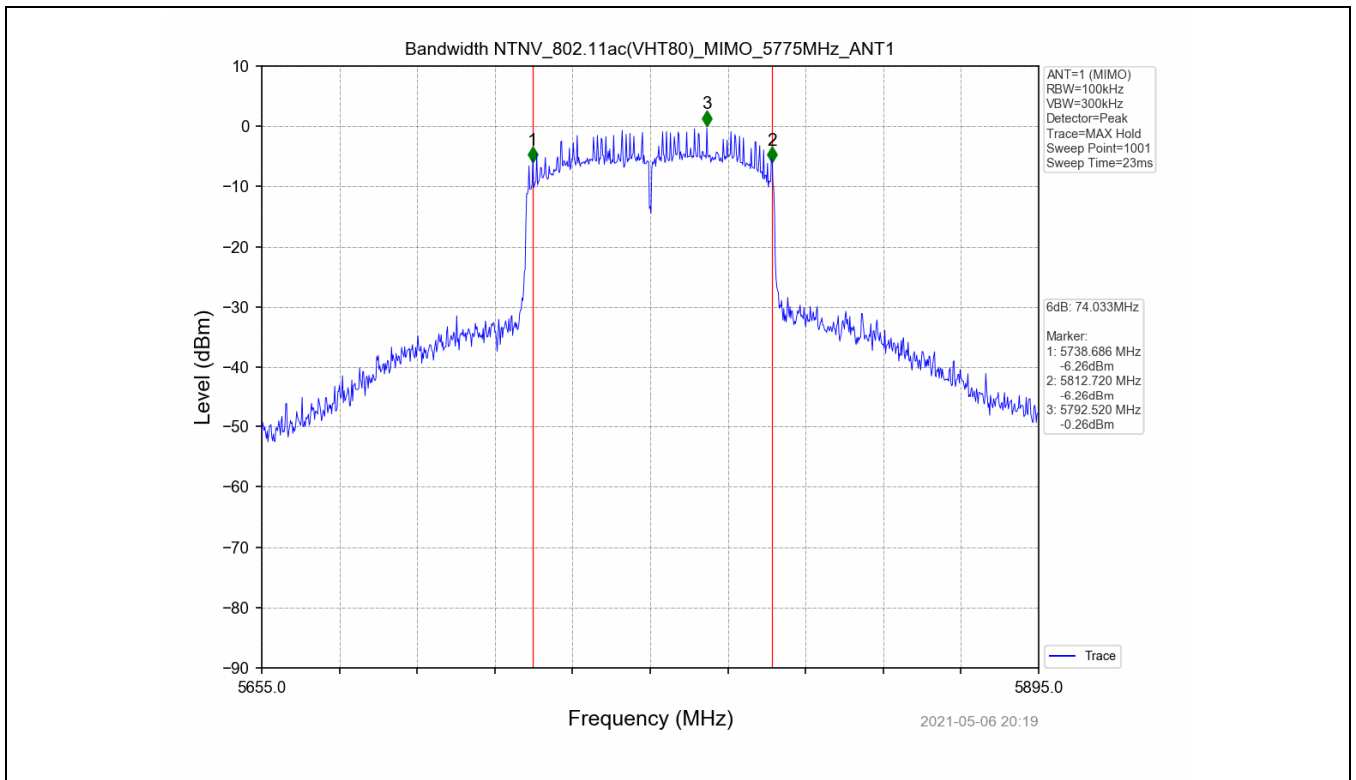
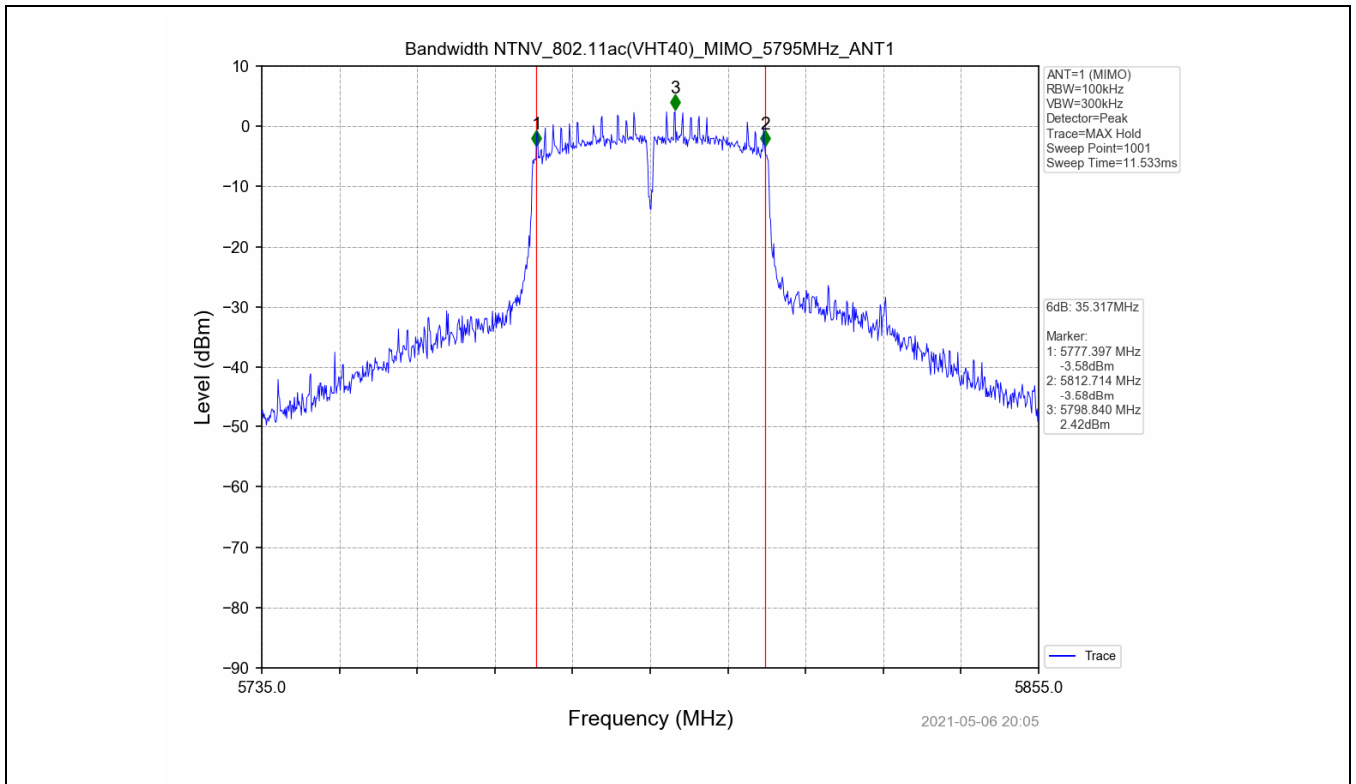












2.3 Test Graph - 99% Occupied Bandwidth

