

TEST REPORT

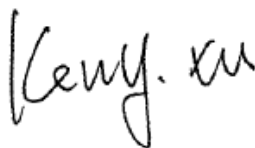
Application No.: SZCR2508003787IT
Applicant: Shenzhen Viwoods Technology & Design Co., Ltd.
Address of Applicant: 705, W2-A Bldg, Hi-tech Ind. Village, No.025 Hi-tech S 4th Rd, Nanshan Dist, Shenzhen 518000 China
Manufacturer: Shenzhen Viwoods Technology & Design Co., Ltd.
Address of Manufacturer: Room 705, Building W2-A, High-tech Industrial Village, No. 025 High-tech South 4th Road, High-tech Community, Yuehai Subdistrict, Nanshan District, Shenzhen 518000 China
Factory: Dongguan Wisky Electronics Technology Co., Ltd.
Address of Factory: Room 401, 4th Floor, No. 47 Qilinling Road, Shahu Community, Tangxia Town, Dongguan, Guangdong, China 523710

Equipment Under Test (EUT):

EUT Name: AiPaper Reader
Model No.: AiPaper Reader, AiPaper Reader C ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Viwoods
FCC ID: 2BKO6-SE08
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-08-28
Date of Test: 2025-09-10 to 2025-09-26
Date of Issue: 2025-10-01

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



Keny Xu
EMC Laboratory Manager



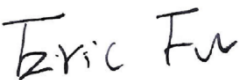
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800378705

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-10-01		Original

Authorized for issue by:				
				
		Leo Lai/Project Engineer		
				
		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 E 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 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2020) Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass





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Declaration of EUT Family Grouping:

Model No.: AiPaper Reader, AiPaper Reader C

Only the model AiPaper Reader was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference being of model No.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.85V from internal rechargeable battery which can be charge by AC/DC adapter
Cable(s):	Type C USB Cable: 50cm shielded & 100cm shielded
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac 20: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac80: 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	B1: 0.16dBi; B2A: 0.72dBi; B3: 0.11dBi

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			



4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
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	$\pm 2.84\text{dB}$
Frequency Stability	$\pm 7.25 \times 10^{-8}$

Remark:

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



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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

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



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2025-09-10	2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025-03-03	2026-03-02
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025-03-03	2026-03-02
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2025-03-03	2026-03-02
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2025-03-04	2026-03-03

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



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is B1: 0.16dBi; B2A: 0.72dBi; B3: 0.11dBi.

Antenna location: Refer to internal photo.



6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 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: SDR 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 & Subpart E 15.407 b(9)

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

Humidity: 40.5 % RH

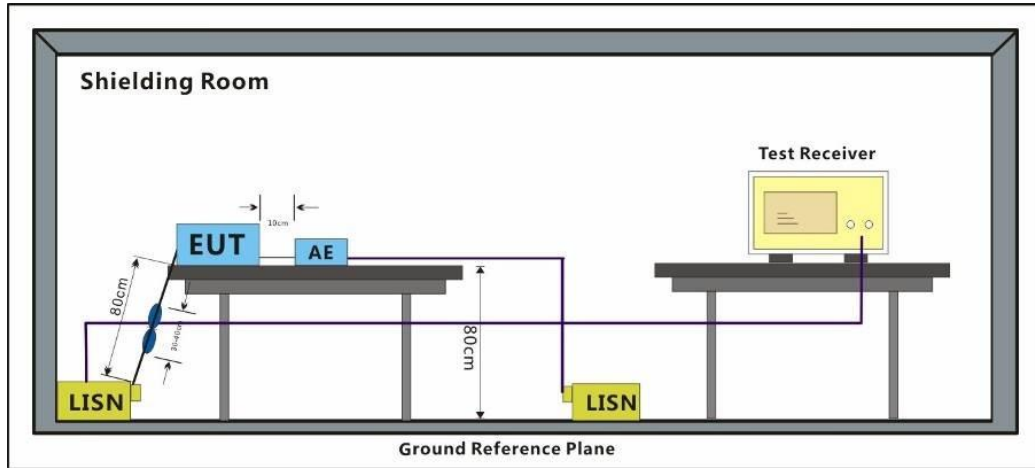
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

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



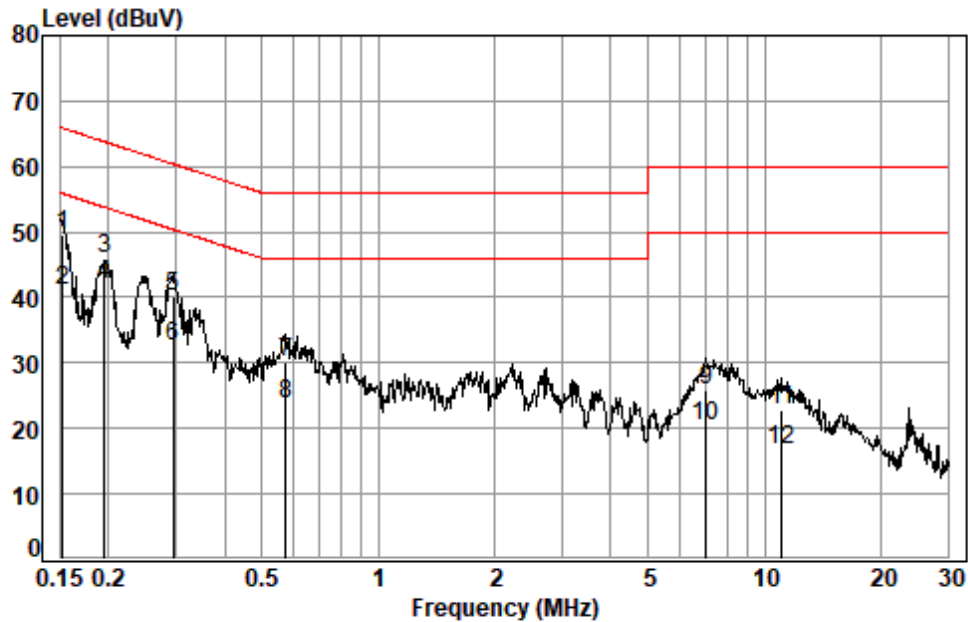
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Test Mode: 05; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03787IT
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1524	0.06	10.19	39.47	49.72	65.87	-16.15	QP
2	0.1524	0.06	10.19	30.93	41.18	55.87	-14.69	Average
3	0.1955	0.07	10.13	35.66	45.86	63.80	-17.94	QP
4 *	0.1955	0.07	10.13	31.70	41.90	53.80	-11.90	Average
5	0.2940	0.08	9.86	30.09	40.03	60.41	-20.38	QP
6	0.2940	0.08	9.86	22.75	32.69	50.41	-17.72	Average
7	0.5762	0.10	9.59	20.37	30.06	56.00	-25.94	QP
8	0.5762	0.10	9.59	14.13	23.82	46.00	-22.18	Average
9	7.0622	0.14	9.68	16.15	25.97	60.00	-34.03	QP
10	7.0622	0.14	9.68	10.50	20.32	50.00	-29.68	Average
11	11.0797	0.16	9.75	12.81	22.72	60.00	-37.28	QP
12	11.0797	0.16	9.75	6.70	16.61	50.00	-33.39	Average



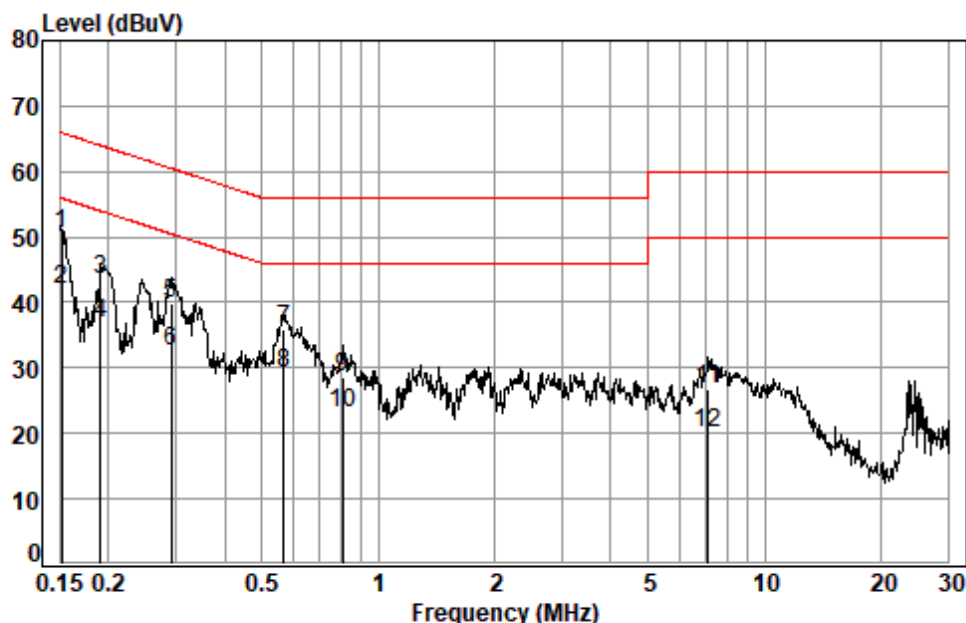
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Test Mode: 05; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03787IT

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1512	0.06	10.15	40.27	50.48	65.93	-15.45	QP
2 *	0.1512	0.06	10.15	31.69	41.90	55.93	-14.03	Average
3	0.1914	0.07	10.09	33.38	43.54	63.98	-20.44	QP
4	0.1914	0.07	10.09	26.78	36.94	53.98	-17.04	Average
5	0.2909	0.08	9.79	29.99	39.86	60.50	-20.64	QP
6	0.2909	0.08	9.79	22.65	32.52	50.50	-17.98	Average
7	0.5701	0.10	9.69	26.09	35.88	56.00	-20.12	QP
8	0.5701	0.10	9.69	19.50	29.29	46.00	-16.71	Average
9	0.8088	0.10	9.61	18.97	28.68	56.00	-27.32	QP
10	0.8088	0.10	9.61	13.33	23.04	46.00	-22.96	Average
11	7.1374	0.15	9.65	16.85	26.65	60.00	-33.35	QP
12	7.1374	0.15	9.65	10.34	20.14	50.00	-29.86	Average



7.2 Radiated Emissions (Below 1GHz)

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

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

Measurement Distance: 3m

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 47.5 % RH

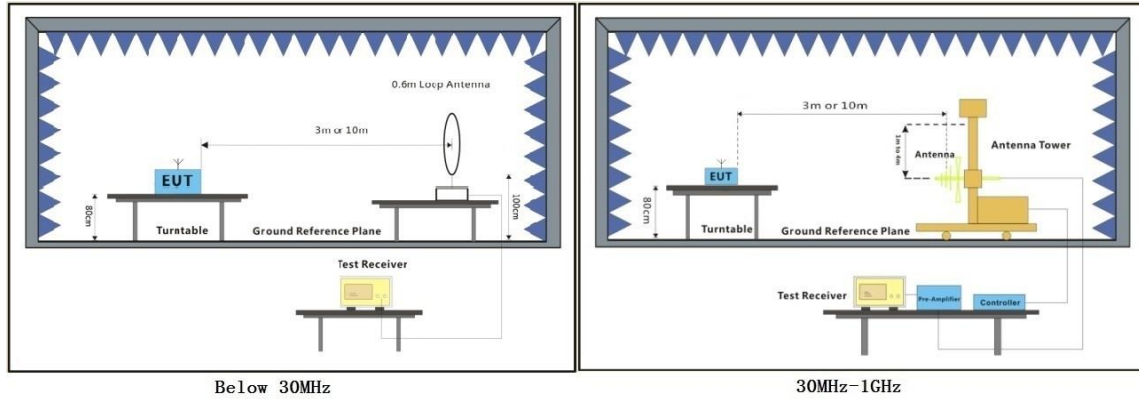
Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.



7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

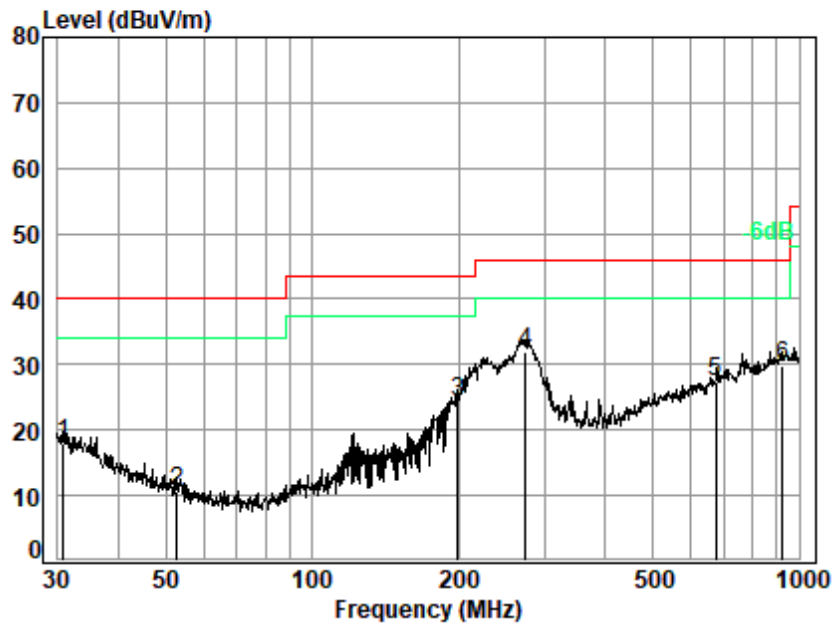
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna,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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 05; Polarity: Horizontal

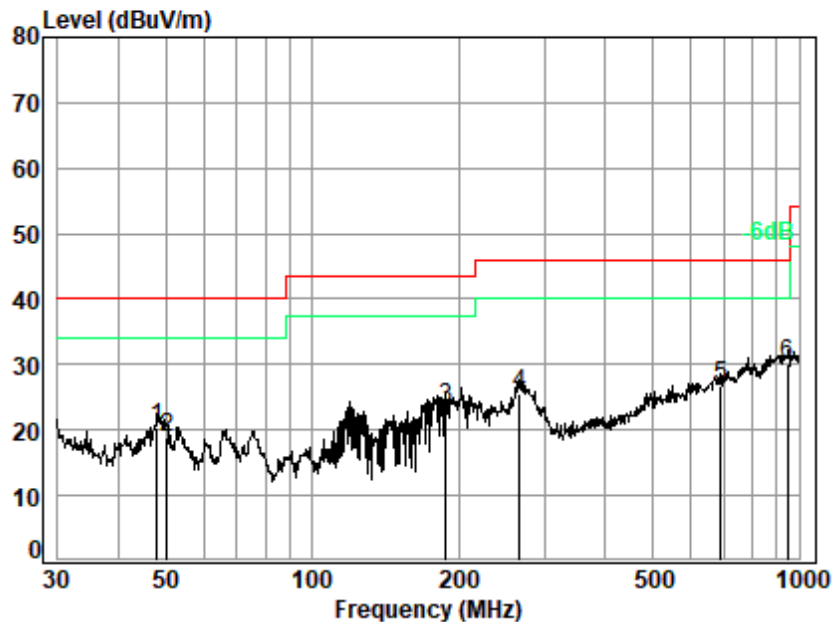


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03787IT
Test Mode: 05

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.745	20.86	0.75	27.65	23.93	17.89	40.00	-22.11 QP
2	52.760	12.33	0.91	27.63	25.03	10.64	40.00	-29.36 QP
3	199.286	14.08	1.70	27.80	36.22	24.20	43.50	-19.30 QP
4 q	274.194	17.07	2.02	27.57	40.28	31.80	46.00	-14.20 QP
5	675.208	25.71	3.34	27.89	26.26	27.42	46.00	-18.58 QP
6	925.756	28.18	4.03	26.81	24.49	29.89	46.00	-16.11 QP



Test Mode: 05; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03787IT
Test Mode: 05

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.994	13.30	0.89	27.63	33.97	20.53	40.00	-19.47 QP
2	50.232	12.72	0.90	27.63	33.02	19.01	40.00	-20.99 QP
3	187.753	14.30	1.66	27.78	35.39	23.57	43.50	-19.93 QP
4	266.609	17.08	1.99	27.59	34.18	25.66	46.00	-20.34 QP
5	691.987	25.74	3.39	27.85	25.46	26.74	46.00	-19.26 QP
6 q	948.761	28.23	4.08	26.68	24.50	30.13	46.00	-15.87 QP



7.3 Radiated Emissions (Above 1GHz)

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

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

Measurement Distance: 3m

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.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

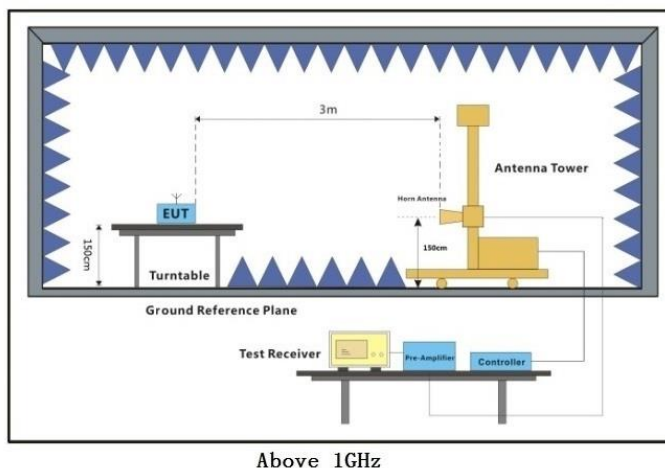
Atmospheric Pressure: 1020 mbar



7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

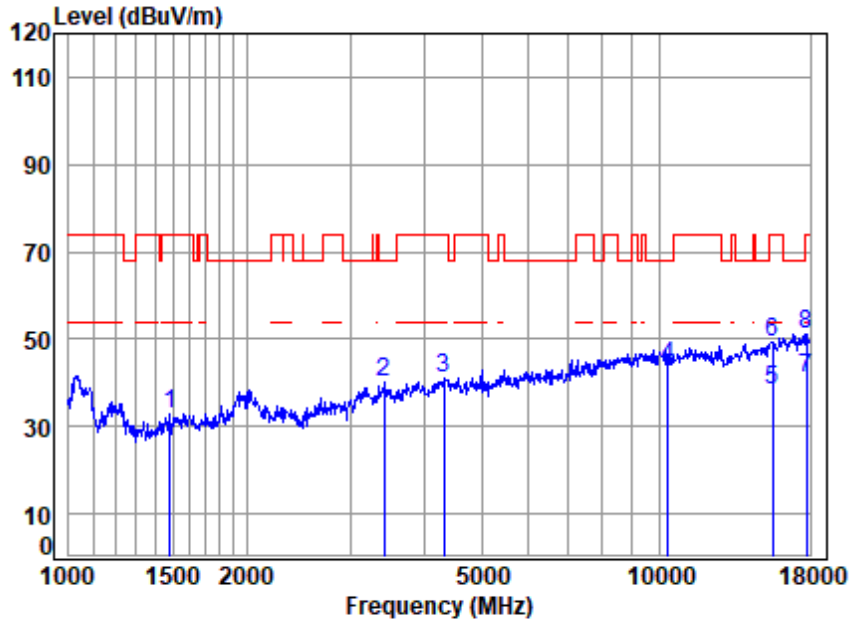
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on 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.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

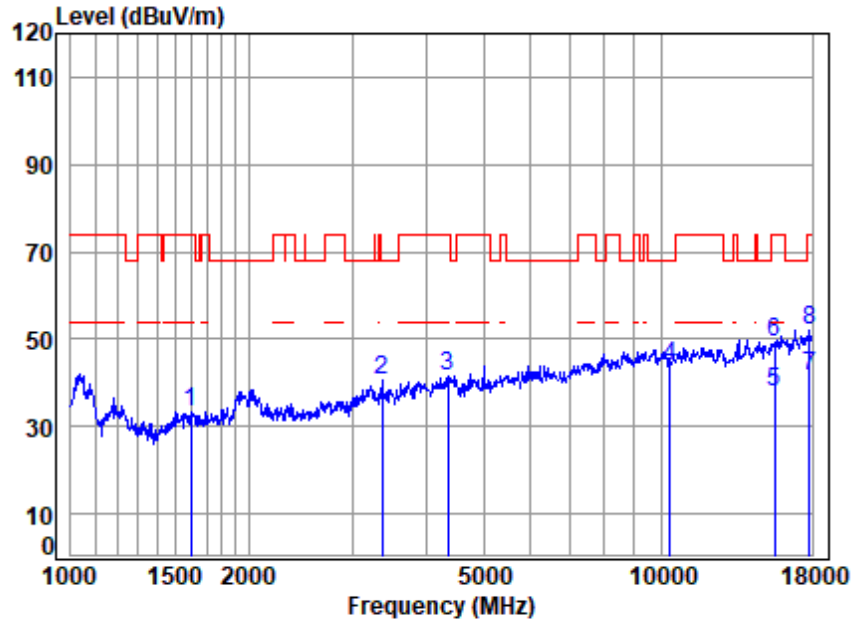


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		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	1481.553	5.02	26.28	54.77	56.27	32.80	74.00	-41.20 peak
2	3415.787	6.14	32.21	54.68	56.33	40.00	68.20	-28.20 peak
3	4316.859	7.07	34.13	54.27	54.06	40.99	74.00	-33.01 peak
4	10360.000	10.58	37.10	53.13	49.04	43.59	68.20	-24.61 peak
5	15540.000	10.88	41.10	52.16	38.65	38.47	54.00	-15.53 Average
6	15540.000	10.88	41.10	52.16	49.41	49.23	74.00	-24.77 peak
7	q17741.740	11.35	43.84	52.53	38.61	41.27	54.00	-12.73 Average
8	p17741.740	11.35	43.84	52.53	48.62	51.28	74.00	-22.72 peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

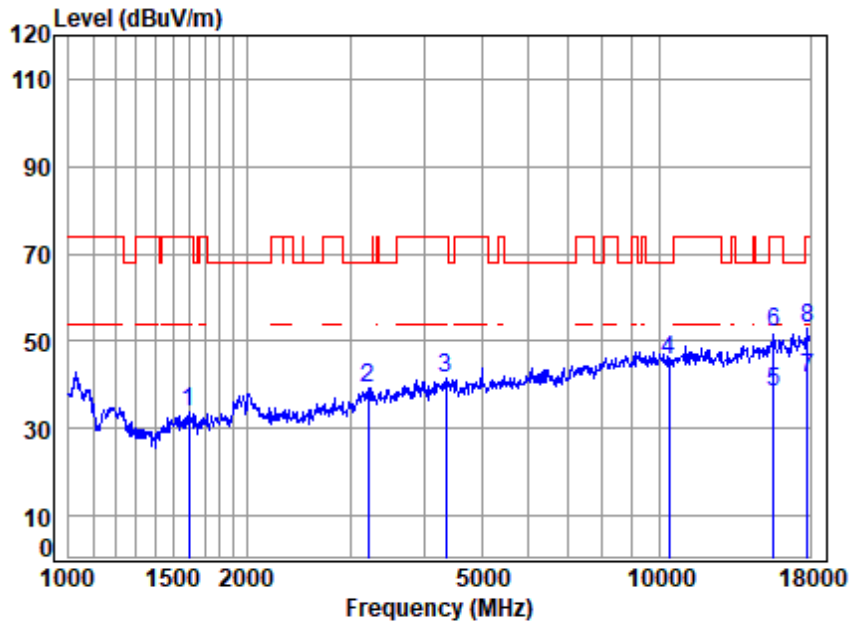


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		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	1597.181	4.99	26.81	54.80	56.33	33.33	74.00	-40.67 peak
2	3366.778	6.11	32.20	54.72	56.88	40.47	68.20	-27.73 peak
3	4354.454	7.09	34.44	54.26	54.27	41.54	74.00	-32.46 peak
4	10360.000	10.58	37.10	53.13	49.26	43.81	68.20	-24.39 peak
5	15540.000	10.88	41.10	52.16	38.24	38.06	54.00	-15.94 Average
6	15540.000	10.88	41.10	52.16	49.57	49.39	74.00	-24.61 peak
7	q17844.590	11.41	43.90	52.48	38.61	41.44	54.00	-12.56 Average
8	p17844.590	11.41	43.90	52.48	49.04	51.87	74.00	-22.13 peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

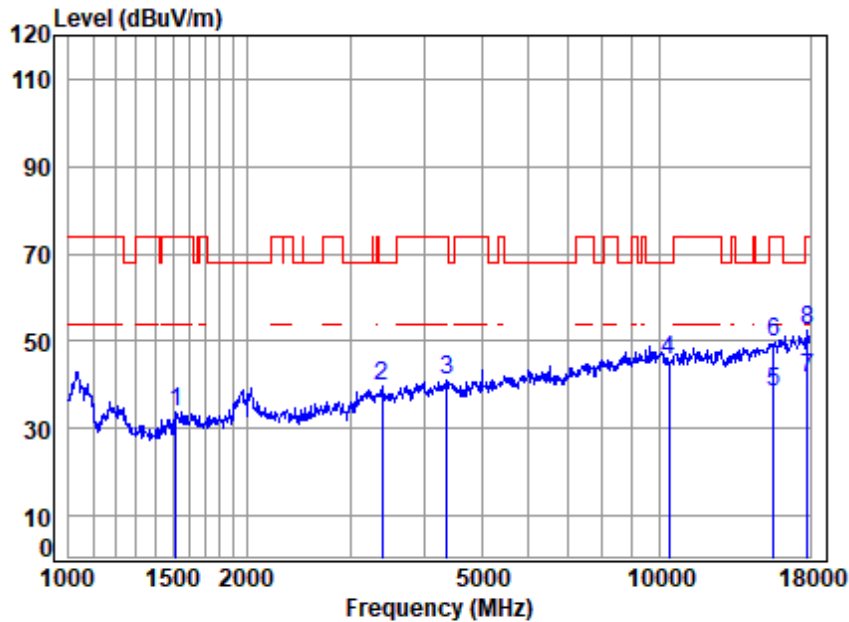


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

		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	1597.181	4.99	26.81	54.80	56.59	33.59	74.00	-40.41 peak
2	3214.623	6.02	32.67	54.83	55.28	39.14	68.20	-29.06 peak
3	4354.454	7.09	34.44	54.26	54.07	41.34	74.00	-32.66 peak
4	10400.000	10.57	37.10	53.12	51.30	45.85	68.20	-22.35 peak
5	15600.000	10.88	41.10	52.11	38.24	38.11	54.00	-15.89 Average
6	15600.000	10.88	41.10	52.11	51.93	51.80	74.00	-22.20 peak
7	q17844.590	11.41	43.90	52.48	38.54	41.37	54.00	-12.63 Average
8	p17844.590	11.41	43.90	52.48	49.94	52.77	74.00	-21.23 peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

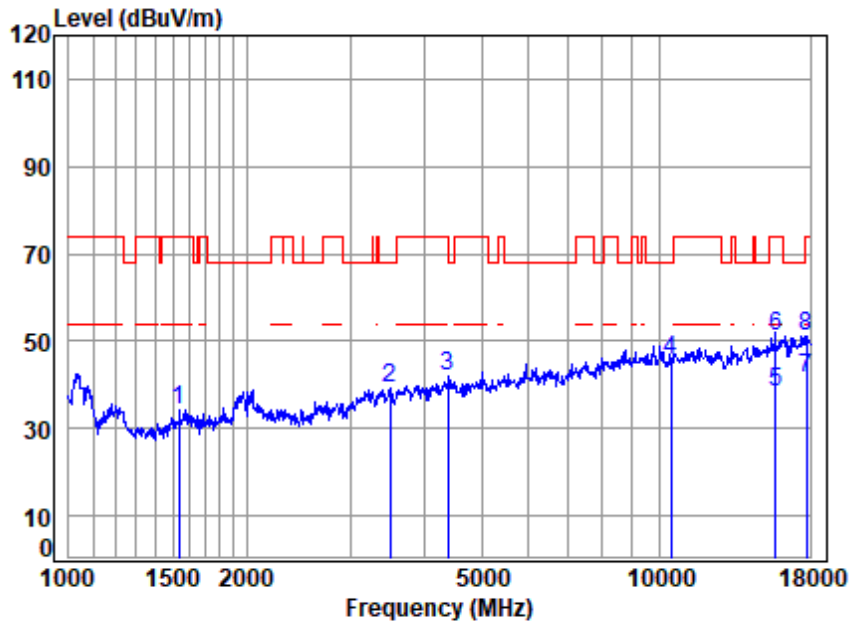


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

		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	1520.598	4.99	26.88	54.78	56.80	33.89	74.00	-40.11	peak
2	3396.098	6.13	32.38	54.70	56.06	39.87	68.20	-28.33	peak
3	4367.058	7.10	34.54	54.26	53.58	40.96	74.00	-33.04	peak
4	10400.000	10.57	37.10	53.12	50.93	45.48	68.20	-22.72	peak
5	15600.000	10.88	41.10	52.11	38.26	38.13	54.00	-15.87	Average
6	15600.000	10.88	41.10	52.11	49.76	49.63	74.00	-24.37	peak
7	q17844.590	11.41	43.90	52.48	38.86	41.69	54.00	-12.31	Average
8	p17844.590	11.41	43.90	52.48	49.45	52.28	74.00	-21.72	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

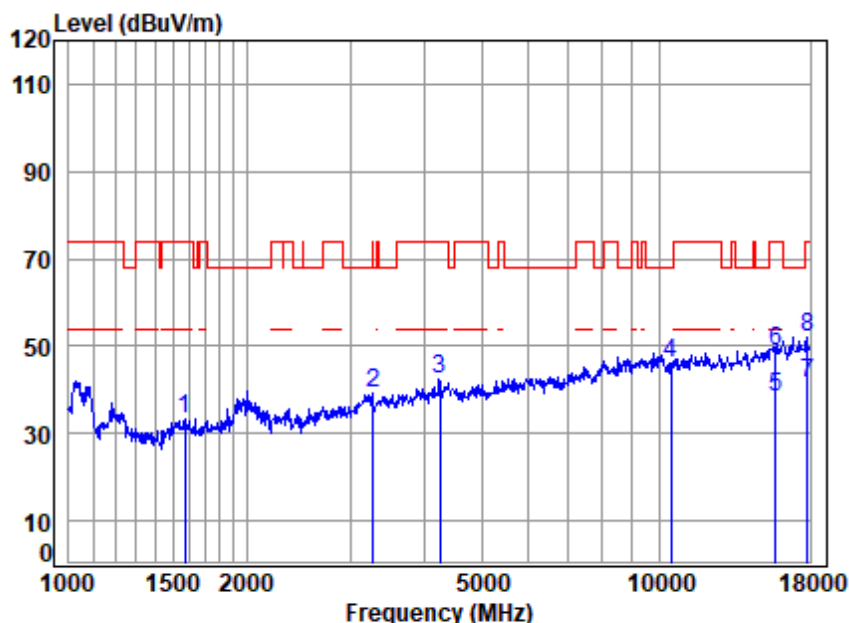


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		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	1538.281	4.99	26.95	54.79	57.10	34.25	74.00	-39.75	peak
2	3495.691	6.19	31.62	54.63	55.86	39.04	68.20	-29.16	peak
3	4392.376	7.11	34.74	54.26	54.30	41.89	74.00	-32.11	peak
4	p10480.000	10.56	37.26	53.10	51.08	45.80	68.20	-22.40	peak
5	15720.000	10.89	41.22	52.02	38.34	38.43	54.00	-15.57	Average
6	15720.000	10.89	41.22	52.02	50.84	50.93	74.00	-23.07	peak
7	q17741.740	11.35	43.84	52.53	38.69	41.35	54.00	-12.65	Average
8	17741.740	11.35	43.84	52.53	48.64	51.30	74.00	-22.70	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

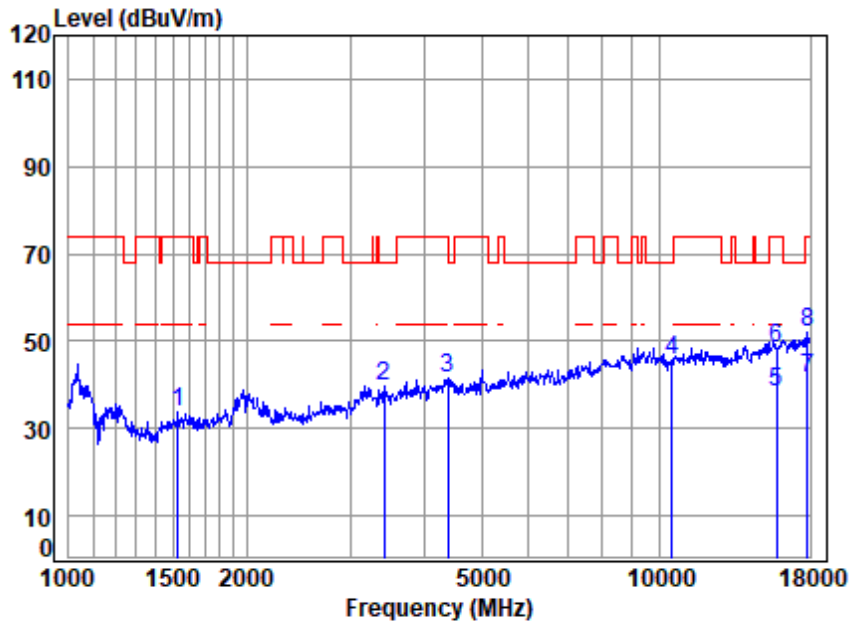


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1574.265	4.99	26.90	54.80	56.25	33.34	74.00	-40.66 peak
2	3270.858	6.06	31.72	54.79	56.14	39.13	68.20	-29.07 peak
3	4242.641	7.04	33.80	54.27	55.67	42.24	74.00	-31.76 peak
4	p10480.000	10.56	37.26	53.10	51.32	46.04	68.20	-22.16 peak
5	15720.000	10.89	41.22	52.02	38.13	38.22	54.00	-15.78 Average
6	15720.000	10.89	41.22	52.02	48.95	49.04	74.00	-24.96 peak
7	q17793.090	11.38	43.89	52.50	38.66	41.43	54.00	-12.57 Average
8	17793.090	11.38	43.89	52.50	49.05	51.82	74.00	-22.18 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

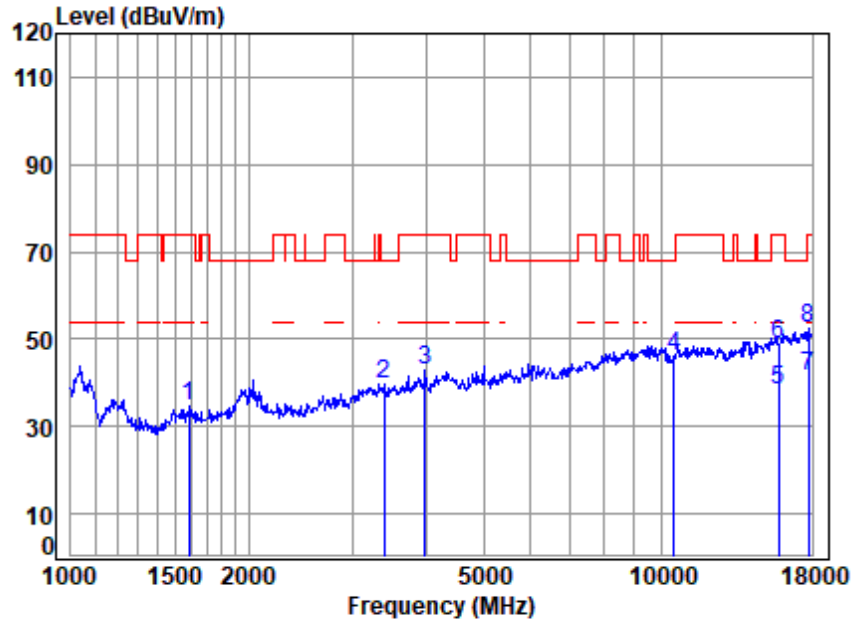


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

		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	1529.414	4.99	26.92	54.78	56.42	33.55	74.00	-40.45	peak
2	3415.787	6.14	32.21	54.68	56.19	39.86	68.20	-28.34	peak
3	4392.376	7.11	34.74	54.26	53.71	41.30	74.00	-32.70	peak
4	10520.000	10.58	37.30	53.09	50.71	45.50	68.20	-22.70	peak
5	15780.000	10.89	41.28	51.97	38.22	38.42	54.00	-15.58	Average
6	15780.000	10.89	41.28	51.97	48.27	48.47	74.00	-25.53	peak
7	q17793.090	11.38	43.89	52.50	38.74	41.51	54.00	-12.49	Average
8	p17793.090	11.38	43.89	52.50	49.13	51.90	74.00	-22.10	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

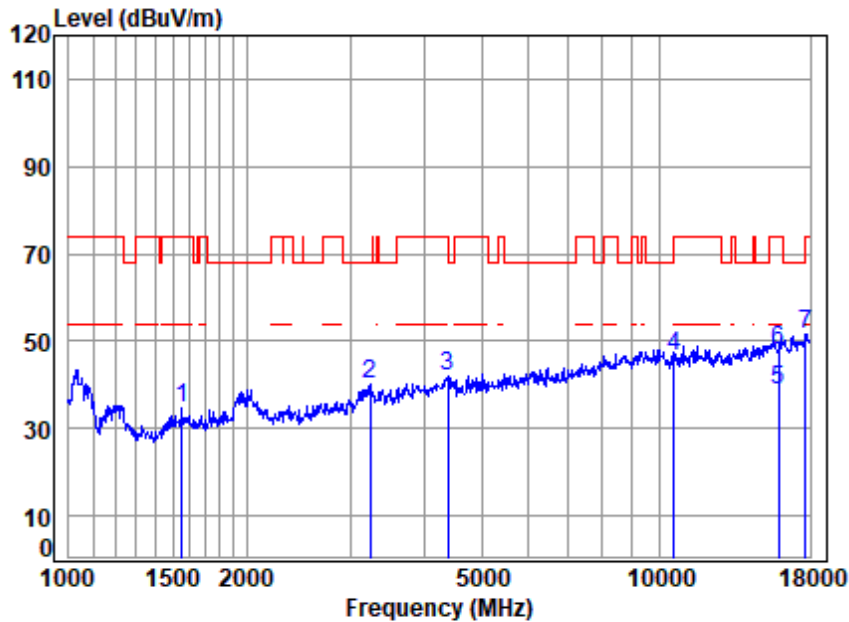


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

		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	1583.392	4.99	26.87	54.80	57.61	34.67	74.00	-39.33 peak
2	3396.098	6.13	32.38	54.70	56.01	39.82	68.20	-28.38 peak
3	3981.257	6.88	33.19	54.31	57.13	42.89	74.00	-31.11 peak
4	10520.000	10.58	37.30	53.09	51.42	46.21	68.20	-21.99 peak
5	15780.000	10.89	41.28	51.97	38.21	38.41	54.00	-15.59 Average
6	15780.000	10.89	41.28	51.97	48.83	49.03	74.00	-24.97 peak
7	q17741.740	11.35	43.84	52.53	38.82	41.48	54.00	-12.52 Average
8	p17741.740	11.35	43.84	52.53	50.01	52.67	74.00	-21.33 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

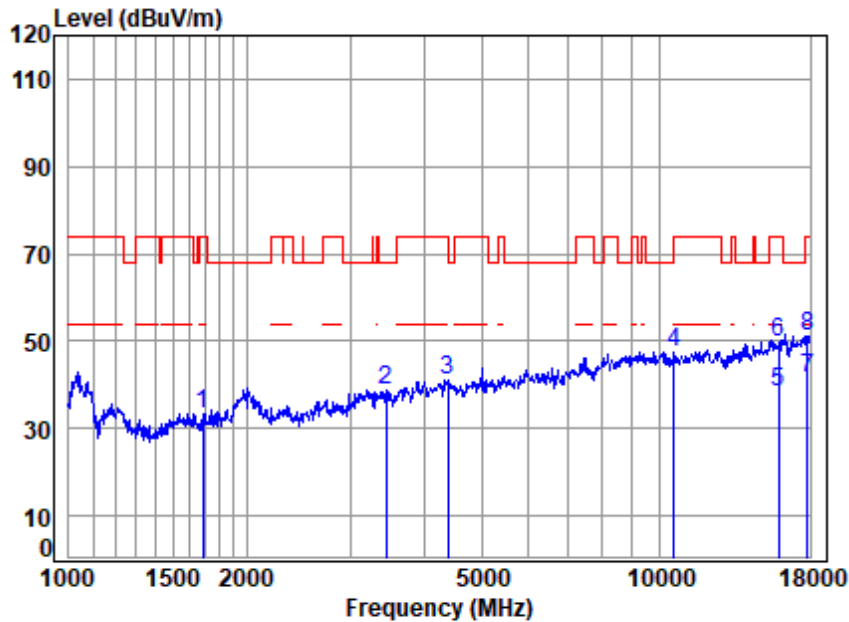


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

		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	1556.169	4.99	26.98	54.79	57.57	34.75	74.00	-39.25 peak
2	3233.260	6.04	32.37	54.82	56.67	40.26	68.20	-27.94 peak
3	4392.376	7.11	34.74	54.26	54.20	41.79	74.00	-32.21 peak
4	10600.000	10.66	37.30	53.08	51.78	46.66	68.20	-21.54 peak
5	q15900.000	10.90	41.40	51.88	38.52	38.94	54.00	-15.06 Average
6	15900.000	10.90	41.40	51.88	47.66	48.08	74.00	-25.92 peak
7	p17690.530	11.32	43.78	52.55	49.00	51.55	68.20	-16.65 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

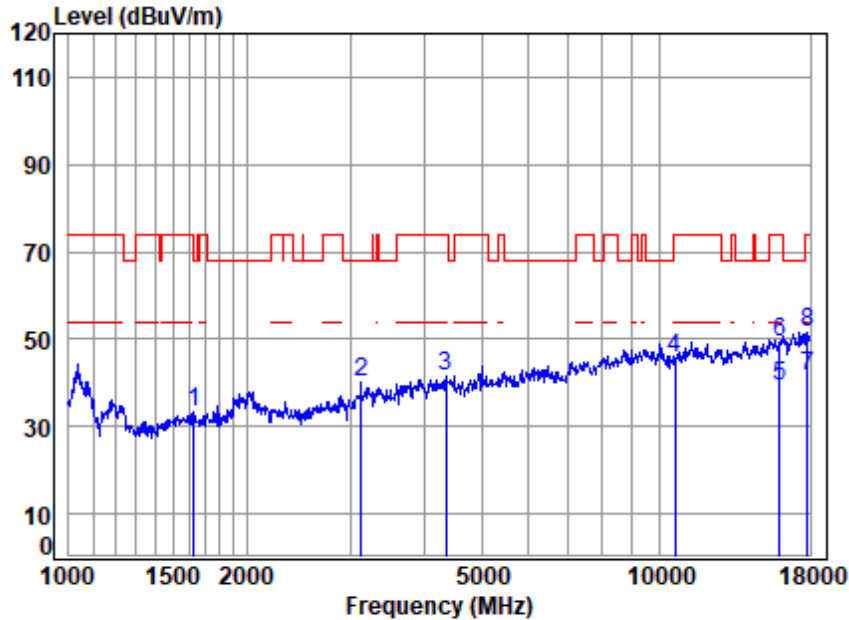


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

		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	1687.347	5.00	26.23	54.83	57.13	33.53	74.00	-40.47 peak
2	3445.535	6.16	31.85	54.66	55.33	38.68	68.20	-29.52 peak
3	4392.376	7.11	34.74	54.26	53.47	41.06	74.00	-32.94 peak
4	p10600.000	10.66	37.30	53.08	52.46	47.34	68.20	-20.86 peak
5	15900.000	10.90	41.40	51.88	38.11	38.53	54.00	-15.47 Average
6	15900.000	10.90	41.40	51.88	49.24	49.66	74.00	-24.34 peak
7	q17793.090	11.38	43.89	52.50	38.67	41.44	54.00	-12.56 Average
8	17793.090	11.38	43.89	52.50	48.49	51.26	74.00	-22.74 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

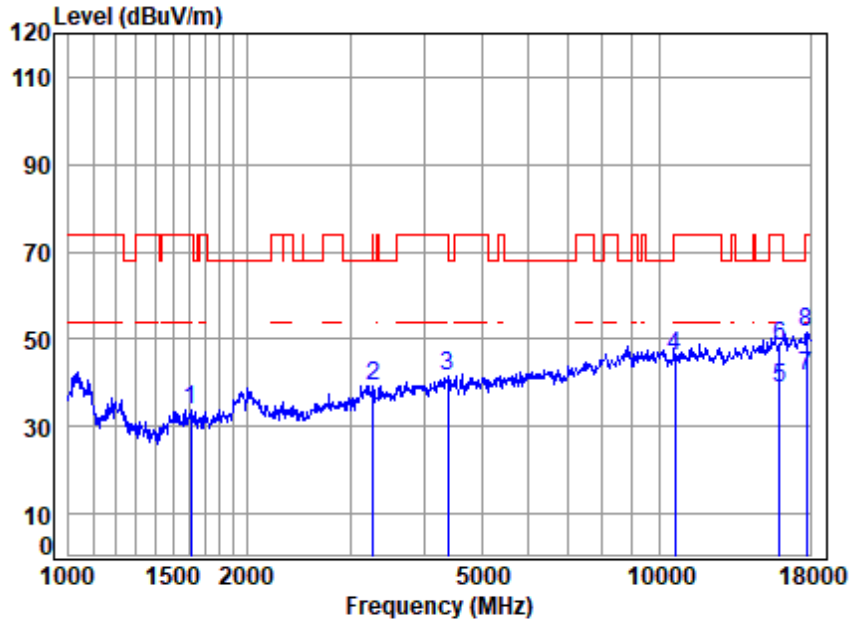


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

		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	1629.825	5.00	26.50	54.81	56.74	33.43	68.20	-34.77	peak
2	3123.039	5.97	32.01	54.90	57.13	40.21	68.20	-27.99	peak
3	4354.454	7.09	34.44	54.26	54.42	41.69	74.00	-32.31	peak
4	10640.000	10.70	37.22	53.07	50.63	45.48	74.00	-28.52	peak
5	15960.000	10.90	41.52	51.83	38.52	39.11	54.00	-14.89	Average
6	15960.000	10.90	41.52	51.83	48.81	49.40	74.00	-24.60	peak
7	q17844.590	11.41	43.90	52.48	38.79	41.62	54.00	-12.38	Average
8	p17844.590	11.41	43.90	52.48	48.66	51.49	74.00	-22.51	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

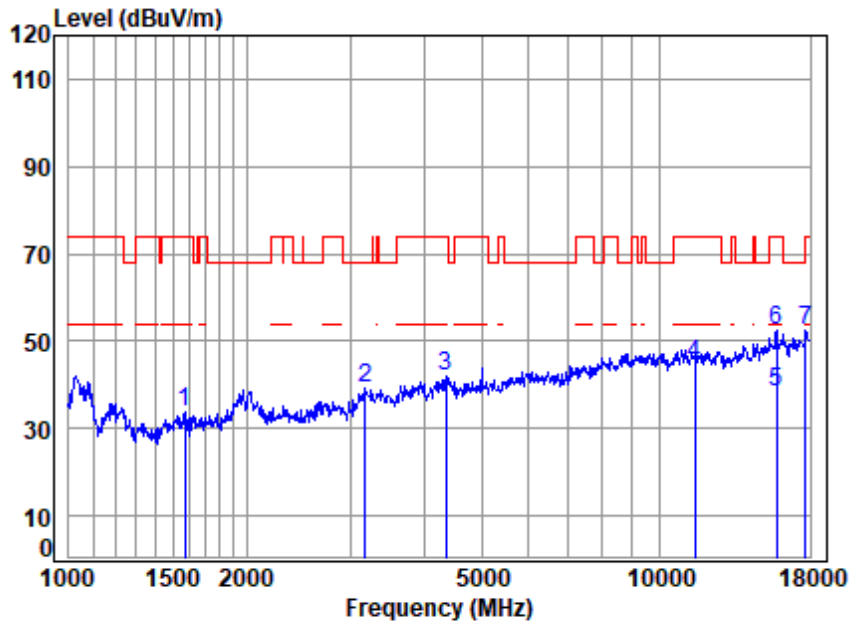


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

		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	1611.091	4.99	26.69	54.81	57.08	33.95	74.00	-40.05 peak
2	3270.858	6.06	31.72	54.79	56.46	39.45	68.20	-28.75 peak
3	4392.376	7.11	34.74	54.26	54.11	41.70	74.00	-32.30 peak
4	10640.000	10.70	37.22	53.07	51.18	46.03	74.00	-27.97 peak
5	15960.000	10.90	41.52	51.83	38.26	38.85	54.00	-15.15 Average
6	15960.000	10.90	41.52	51.83	47.74	48.33	74.00	-25.67 peak
7	q17741.740	11.35	43.84	52.53	38.65	41.31	54.00	-12.69 Average
8	p17741.740	11.35	43.84	52.53	48.67	51.33	74.00	-22.67 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

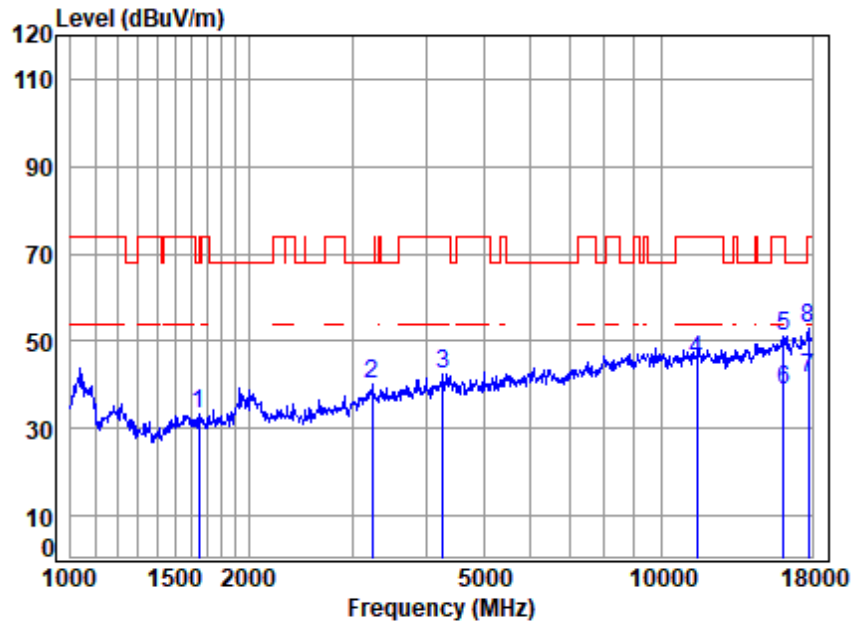


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

		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	1574.265	4.99	26.90	54.80	56.82	33.91	74.00	-40.09	peak
2	3177.672	6.00	32.72	54.86	55.19	39.05	68.20	-29.15	peak
3	4354.454	7.09	34.44	54.26	54.56	41.83	74.00	-32.17	peak
4	11490.000	11.44	37.79	53.10	48.53	44.66	74.00	-29.34	peak
5	q15804.660	10.89	41.30	51.95	38.27	38.51	54.00	-15.49	Average
6	15804.660	10.89	41.30	51.95	52.08	52.32	74.00	-21.68	Peak
7	p17690.530	11.32	43.78	52.55	49.96	52.51	68.20	-15.69	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

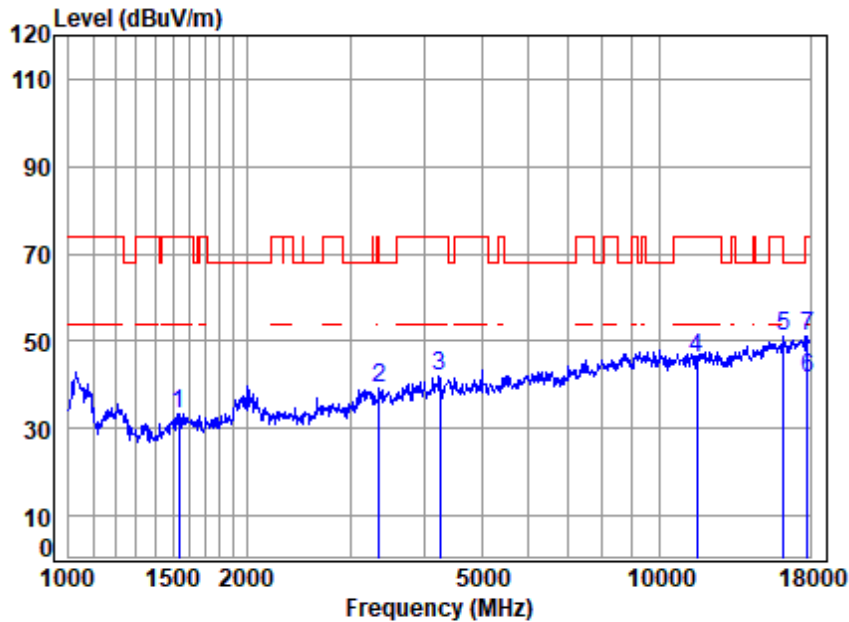


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

		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	1648.778	5.00	26.31	54.82	56.76	33.25	68.20	-34.95	peak
2	3233.260	6.04	32.37	54.82	56.55	40.14	68.20	-28.06	peak
3	4267.237	7.05	33.87	54.27	55.86	42.51	74.00	-31.49	peak
4	11490.000	11.44	37.79	53.10	49.68	45.81	74.00	-28.19	peak
5	16127.690	10.92	41.73	51.94	50.36	51.07	74.00	-22.93	Peak
6	16127.690	10.92	41.73	51.94	38.23	38.94	54.00	-15.06	Average
7	q17741.740	11.35	43.84	52.53	38.88	41.54	54.00	-12.46	Average
8	p17741.740	11.35	43.84	52.53	50.15	52.81	74.00	-21.19	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

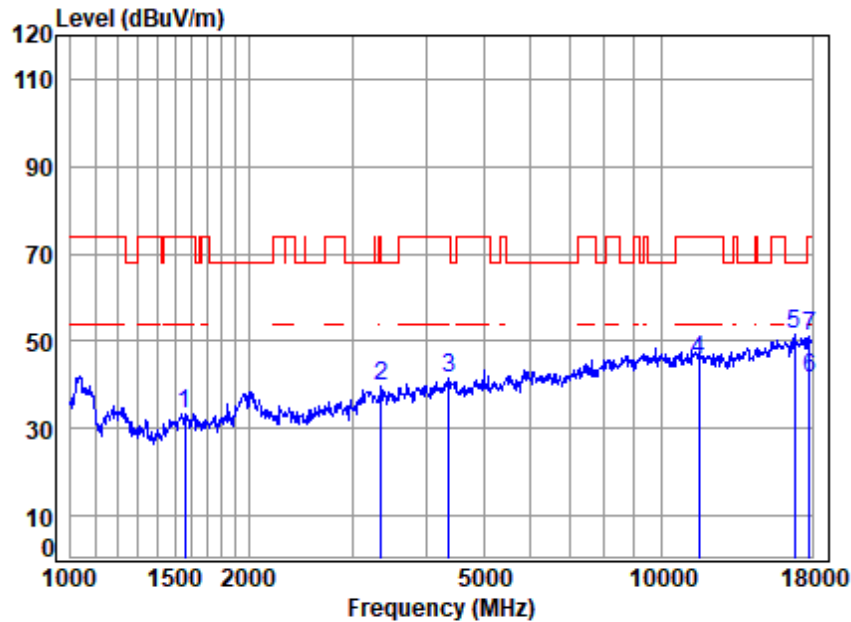
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	4.99	26.95	54.79	56.20	33.35	74.00	-40.65	peak
2	3357.061	6.11	32.14	54.73	55.74	39.26	74.00	-34.74	peak
3	4242.641	7.04	33.80	54.27	55.38	41.95	74.00	-32.05	peak
4	11570.000	11.48	37.73	53.12	49.91	46.00	74.00	-28.00	peak
5	p16221.190	10.94	41.84	52.05	50.23	50.96	68.20	-17.24	Peak
6	q17793.090	11.38	43.89	52.50	38.67	41.44	54.00	-12.56	Average
7	17793.090	11.38	43.89	52.50	48.56	51.33	74.00	-22.67	peak



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

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

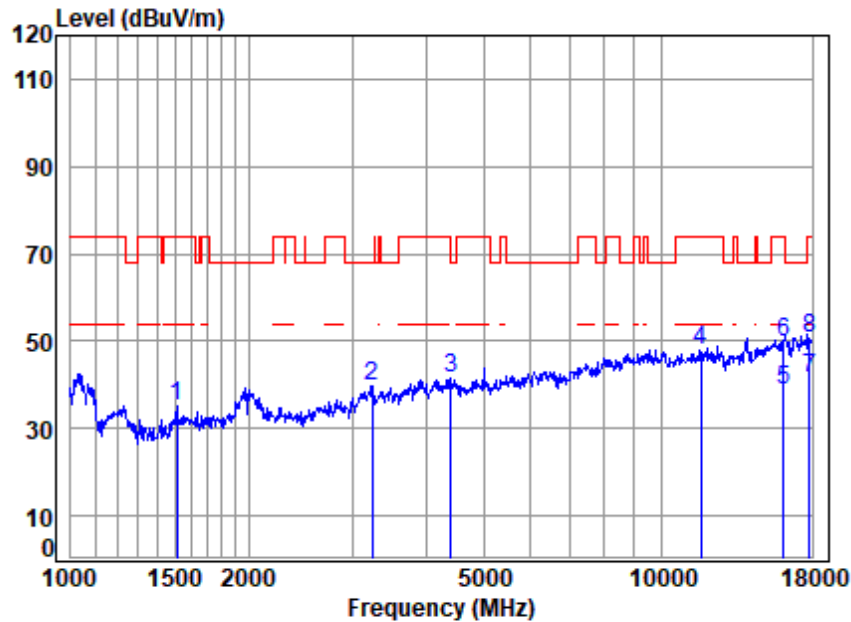


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

		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	1560.673	4.99	26.96	54.79	56.32	33.48	74.00	-40.52 peak
2	3357.061	6.11	32.14	54.73	56.39	39.91	74.00	-34.09 peak
3	4367.058	7.10	34.54	54.26	54.24	41.62	74.00	-32.38 peak
4	11570.000	11.48	37.73	53.12	49.76	45.85	74.00	-28.15 peak
5	p16842.290	10.99	43.03	52.73	50.29	51.58	68.20	-16.62 Peak
6	q17844.590	11.41	43.90	52.48	38.78	41.61	54.00	-12.39 Average
7	17844.590	11.41	43.90	52.48	48.20	51.03	74.00	-22.97 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

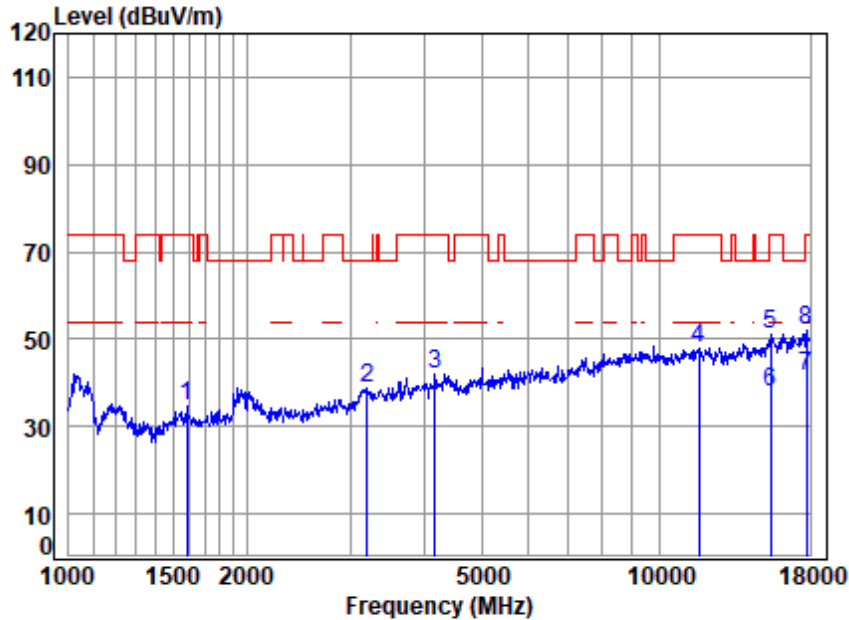


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

		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	1511.833	4.99	26.85	54.78	57.89	34.95	74.00	-39.05 peak
2	3242.619	6.04	32.22	54.81	56.09	39.54	68.20	-28.66 peak
3	4405.090	7.12	34.74	54.26	53.99	41.59	68.20	-26.61 peak
4	11650.000	11.50	37.80	53.13	51.52	47.69	74.00	-26.31 peak
5	16081.140	10.91	41.68	51.89	38.21	38.91	54.00	-15.09 Average
6	16081.140	10.91	41.68	51.89	49.21	49.91	74.00	-24.09 Peak
7	q17793.090	11.38	43.89	52.50	38.85	41.62	54.00	-12.38 Average
8	p17793.090	11.38	43.89	52.50	48.07	50.84	74.00	-23.16 Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
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	1583.392	4.99	26.87	54.80	57.42	34.48	74.00	-39.52	peak
2	3205.345	6.02	32.81	54.84	54.94	38.93	68.20	-29.27	peak
3	4169.698	7.00	33.80	54.28	55.43	41.95	74.00	-32.05	peak
4	11650.000	11.50	37.80	53.13	51.52	47.69	74.00	-26.31	peak
5	15443.410	10.83	41.04	52.24	51.59	51.22	74.00	-22.78	Peak
6	15443.410	10.83	41.04	52.24	38.16	37.79	54.00	-16.21	Average
7	q17741.740	11.35	43.84	52.53	38.94	41.60	54.00	-12.40	Average
8	p17741.740	11.35	43.84	52.53	49.45	52.11	74.00	-21.89	peak



7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10 (2020) Section 6.10.5
 Measurement Distance: 3m

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.

7.4.1 E.U.T. Operation

Operating Environment:

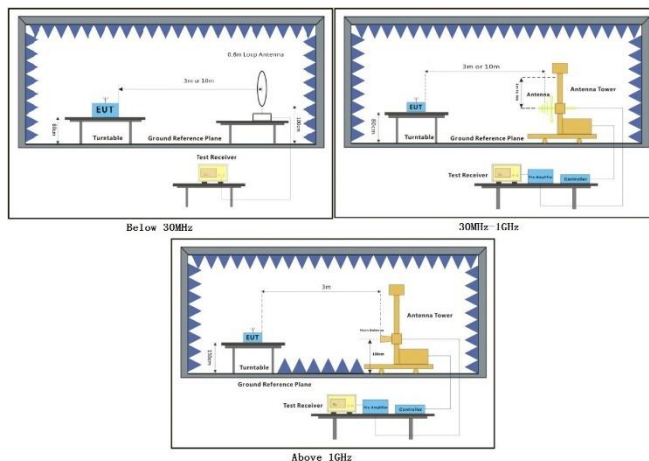


Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

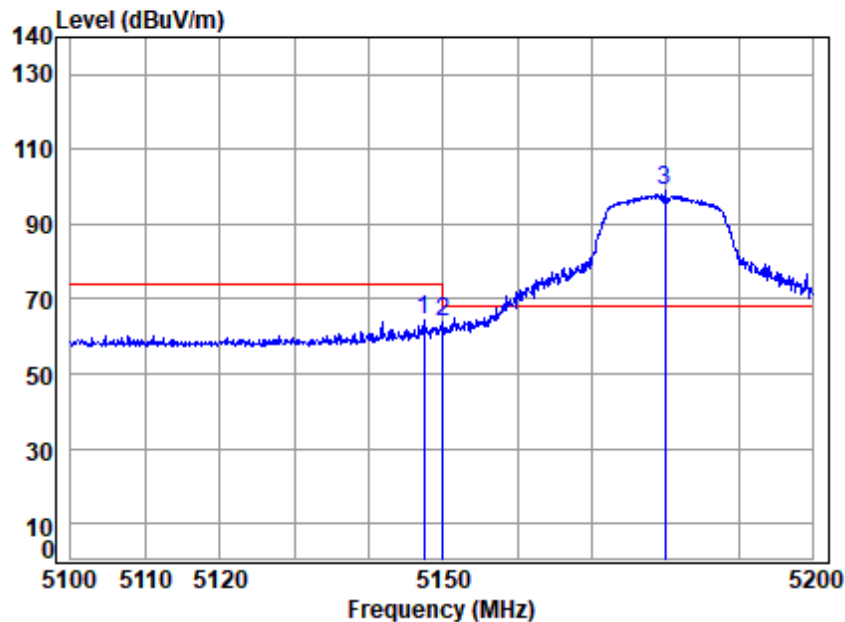
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

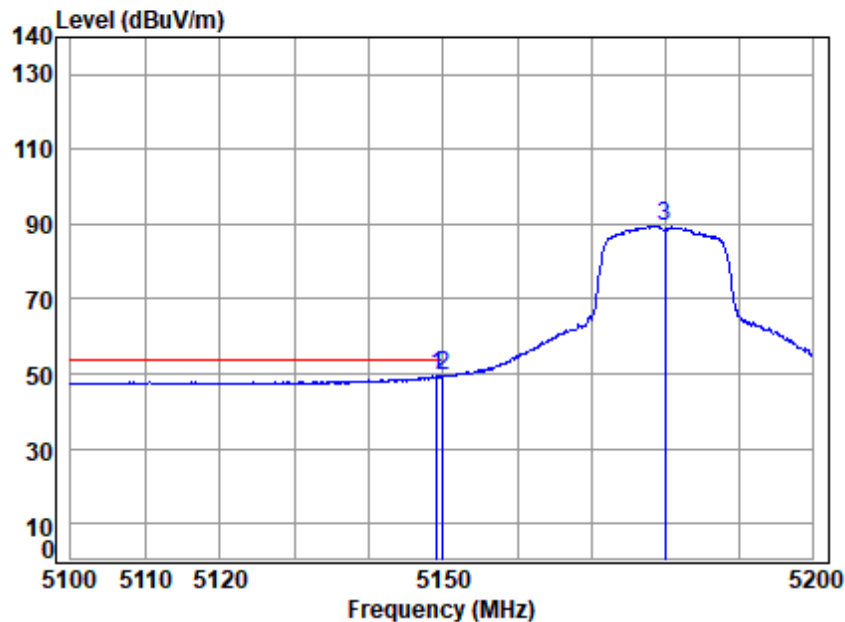


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5180 Band edge
: 5G WIFI 11A

		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	5147.358	18.46	33.91	31.28	43.06	64.15	74.00	-9.85	peak
2	5149.980	18.47	33.90	31.28	42.80	63.89	74.00	-10.11	peak
3 p	5180.000	18.56	33.96	31.30	77.66	98.88	68.20	30.68	peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

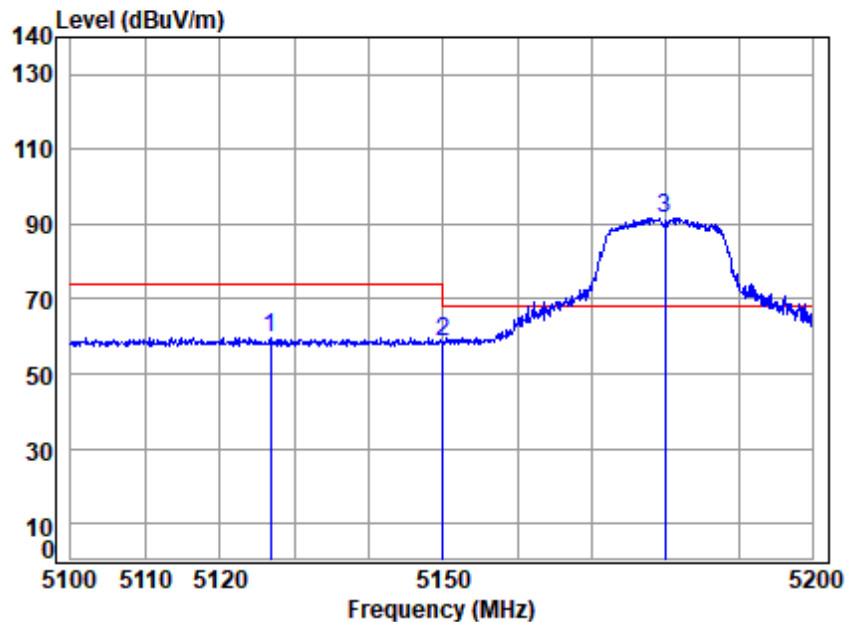


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5180 Band edge
: 5G WIFI 11A

		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 q 5149.157	18.47	33.90	31.28	28.33	49.42	54.00	-4.58	Average
2 5149.980	18.47	33.90	31.28	28.33	49.42	54.00	-4.58	Average
3 5180.000	18.56	33.96	31.30	68.33	89.55	-----	-----	Average



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

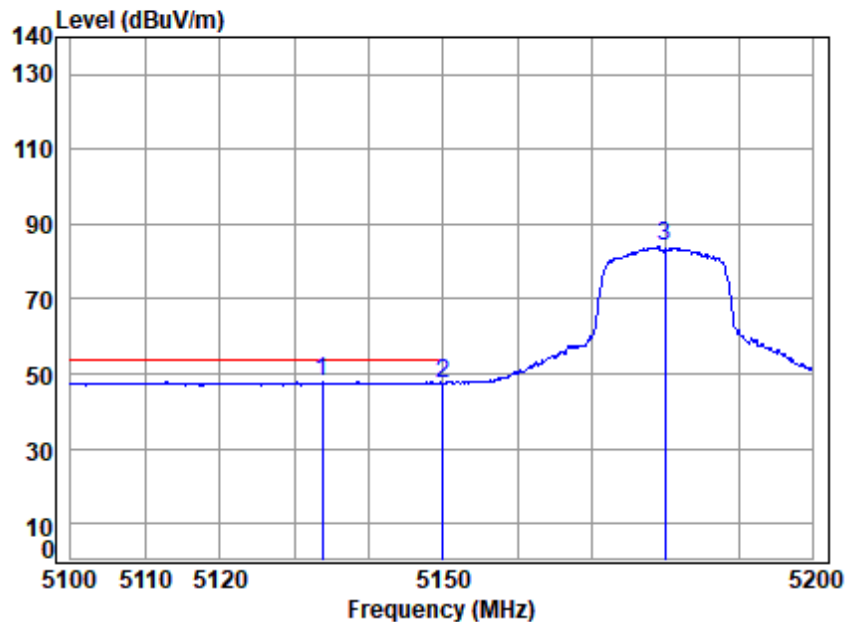


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5180 Band edge
: 5G WIFI 11A

		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	5126.709	18.40	33.95	31.27	38.78	59.86	74.00	-14.14	peak
2	5149.980	18.47	33.90	31.28	37.58	58.67	74.00	-15.33	peak
3 p	5180.000	18.56	33.96	31.30	70.54	91.76	68.20	23.56	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

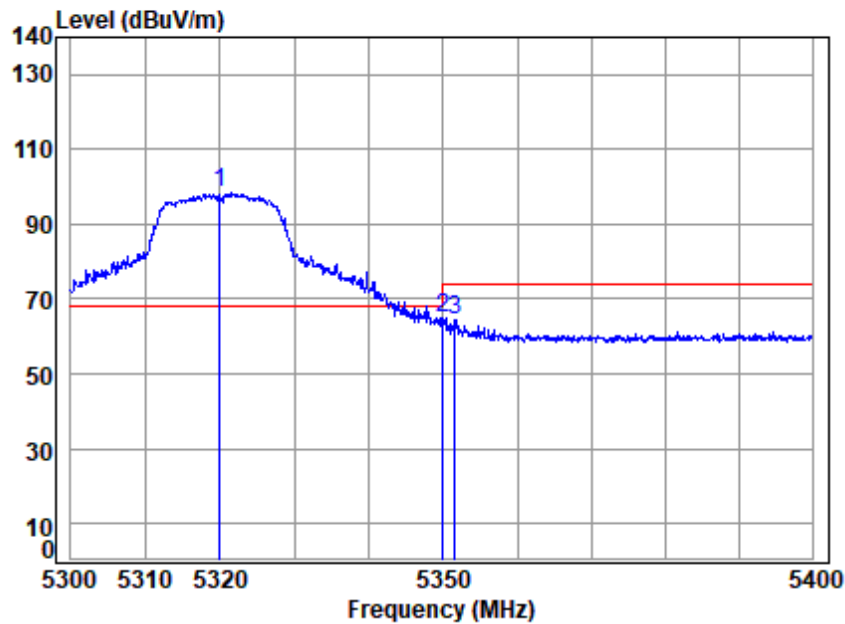


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5180 Band edge
: 5G WIFI 11A

		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 q 5133.782	18.43	33.93	31.27	26.77	47.86	54.00	-6.14	Average
2 5149.980	18.47	33.90	31.28	26.46	47.55	54.00	-6.45	Average
3 5180.000	18.56	33.96	31.30	62.93	84.15	-----	-----	Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

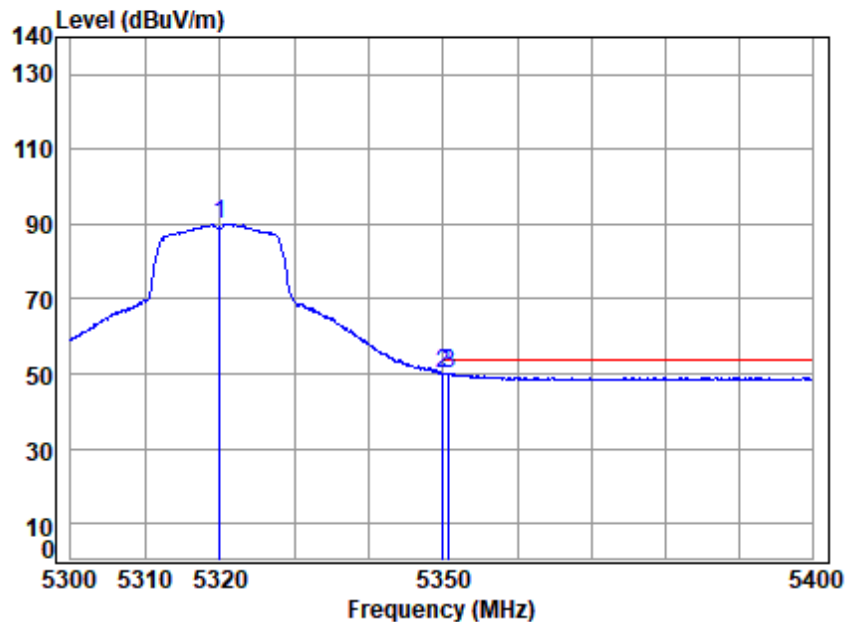


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5320 Band edge
: 5G WIFI 11A

		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 p 5320.000	18.94	34.28	31.37	76.87	98.72	68.20	30.52	peak
2 5350.020	19.03	34.40	31.39	43.07	65.11	74.00	-8.89	peak
3 5351.566	19.03	34.41	31.39	42.34	64.39	74.00	-9.61	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

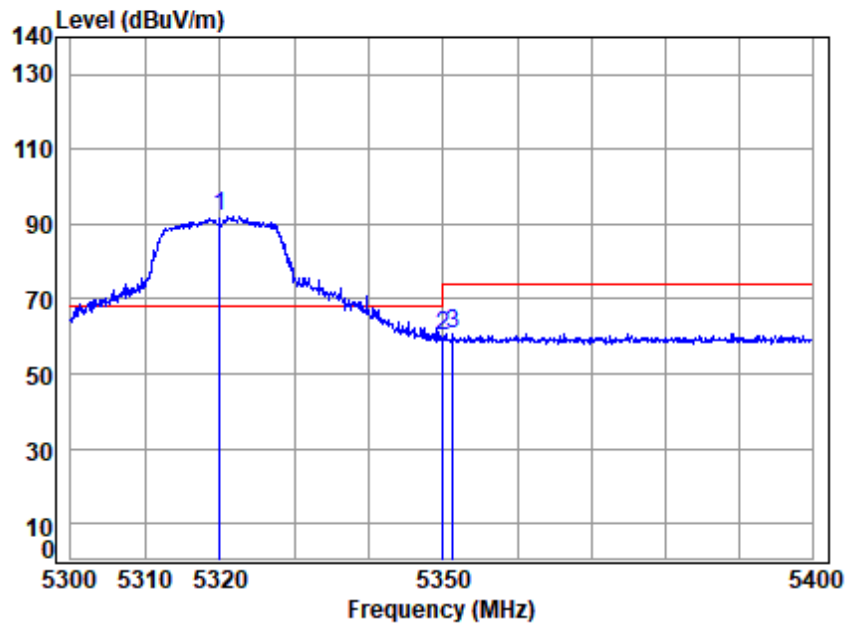


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5320 Band edge
: 5G WIFI 11A

		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 5320.000	18.94	34.28	31.37	68.33	90.18	-----	-----	Average
2 q 5350.020	19.03	34.40	31.39	28.25	50.29	54.00	-3.71	Average
3 5350.767	19.03	34.40	31.39	28.10	50.14	54.00	-3.86	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

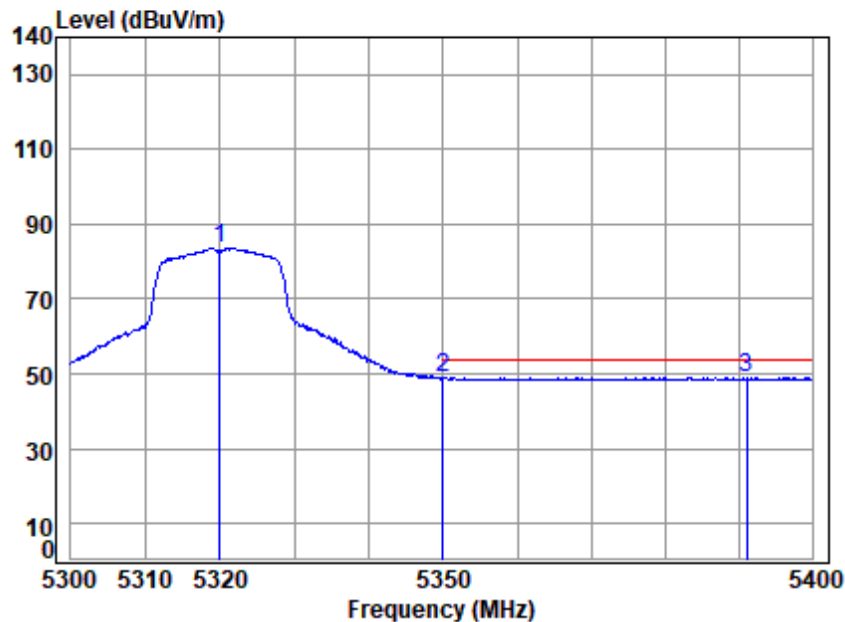


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5320 Band edge
: 5G WIFI 11A

		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 p 5320.000	18.94	34.28	31.37	70.22	92.07	68.20	23.87	peak
2 5350.020	19.03	34.40	31.39	38.16	60.20	74.00	-13.80	peak
3 5351.267	19.03	34.41	31.39	38.66	60.71	74.00	-13.29	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

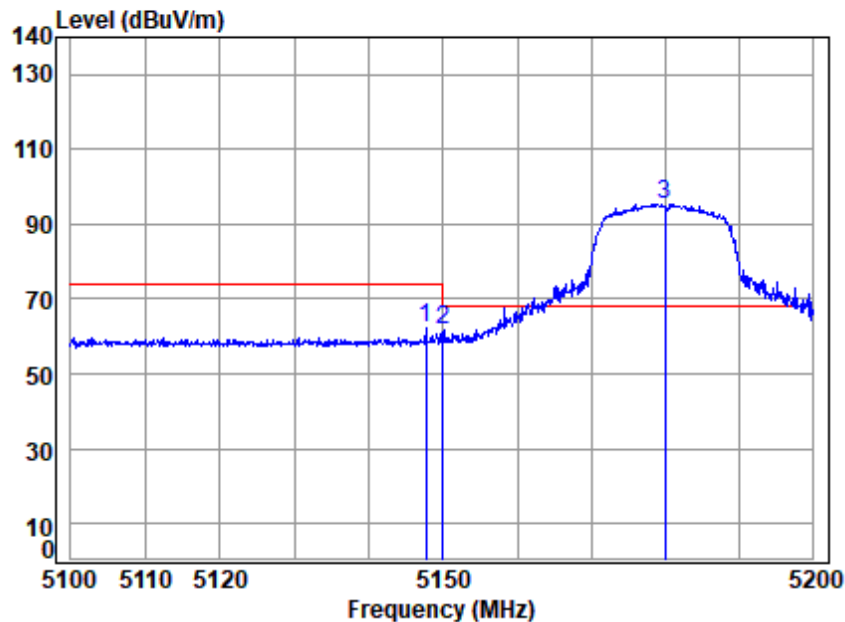


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5320 Band edge
: 5G WIFI 11A

		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 5320.000	18.94	34.28	31.37	61.75	83.60	-----	-----	Average
2 5350.020	19.03	34.40	31.39	26.85	48.89	54.00	-5.11	Average
3 q 5391.125	19.14	34.56	31.41	26.79	49.08	54.00	-4.92	Average



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

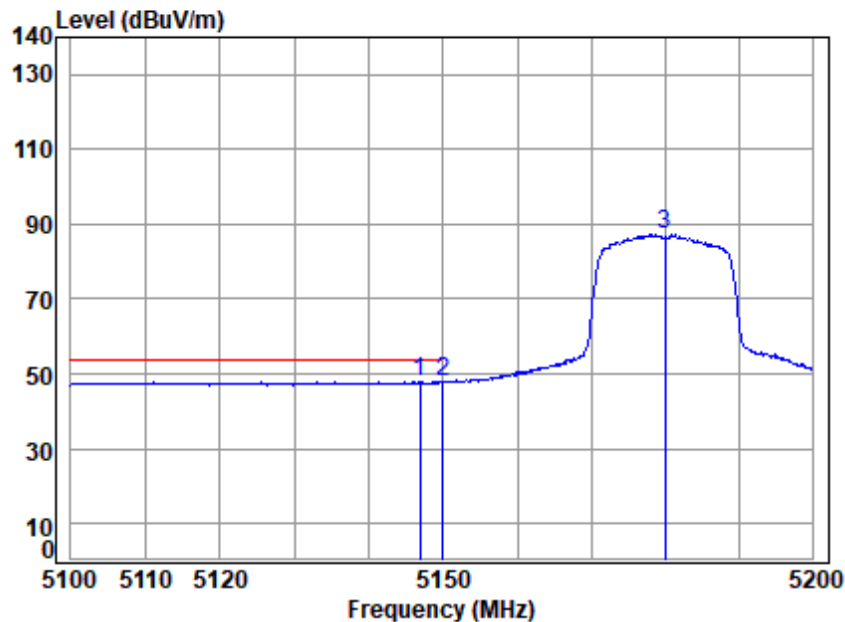


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		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	5147.658	18.46	33.90	31.28	40.95	62.03	74.00	-11.97 peak
2	5149.980	18.47	33.90	31.28	40.57	61.66	74.00	-12.34 peak
3 p	5180.000	18.56	33.96	31.30	74.29	95.51	68.20	27.31 peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

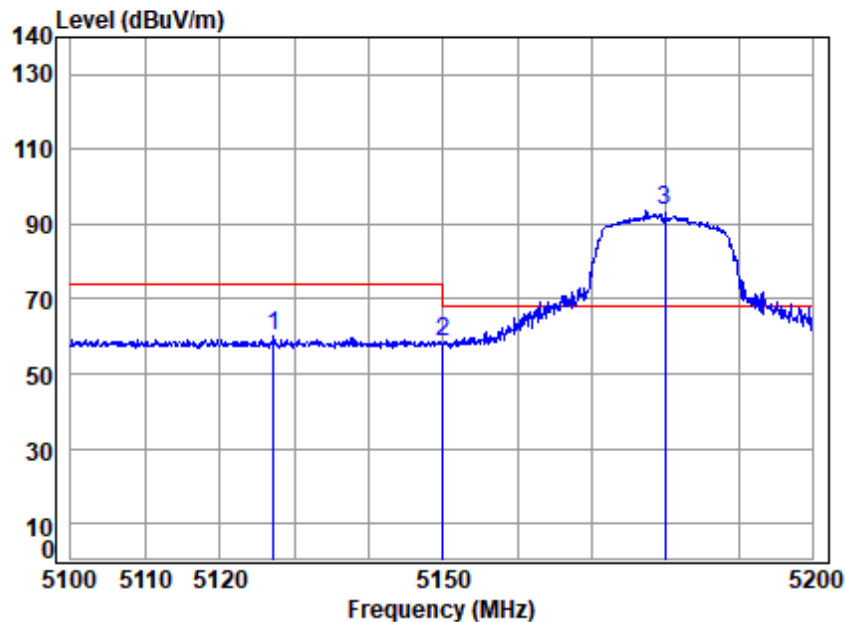


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03787IT\03860IT
 Mode : 5180 Band edge
 : 5G WIFI 11AC20

		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 q	5146.858	18.46	33.91	31.28	26.96	48.05	54.00	-5.95 Average
2	5149.980	18.47	33.90	31.28	26.79	47.88	54.00	-6.12 Average
3	5180.000	18.56	33.96	31.30	66.06	87.28	-----	----- Average



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

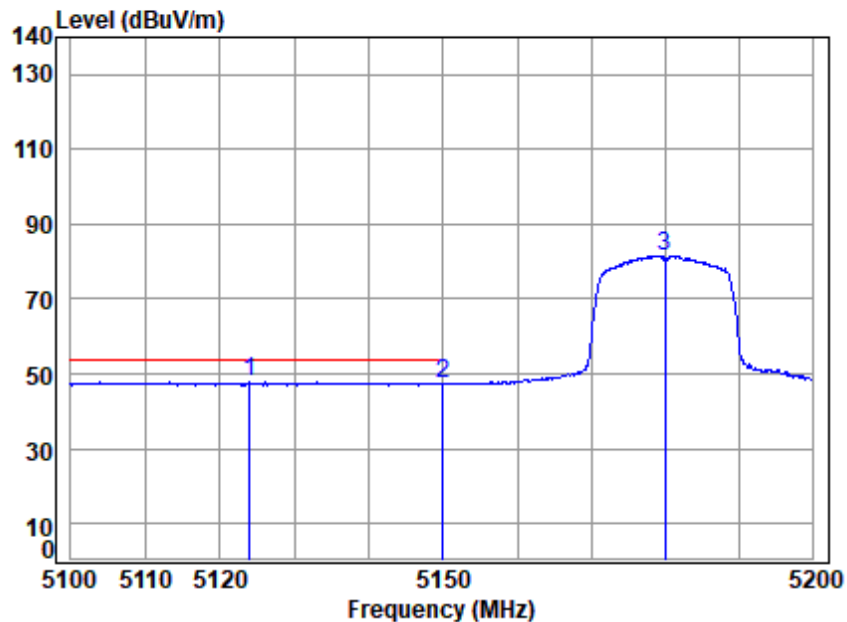


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		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	5127.207	18.41	33.95	31.27	39.01	60.10	74.00	-13.90	peak
2	5149.980	18.47	33.90	31.28	37.62	58.71	74.00	-15.29	peak
3 p	5180.000	18.56	33.96	31.30	72.39	93.61	68.20	25.41	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

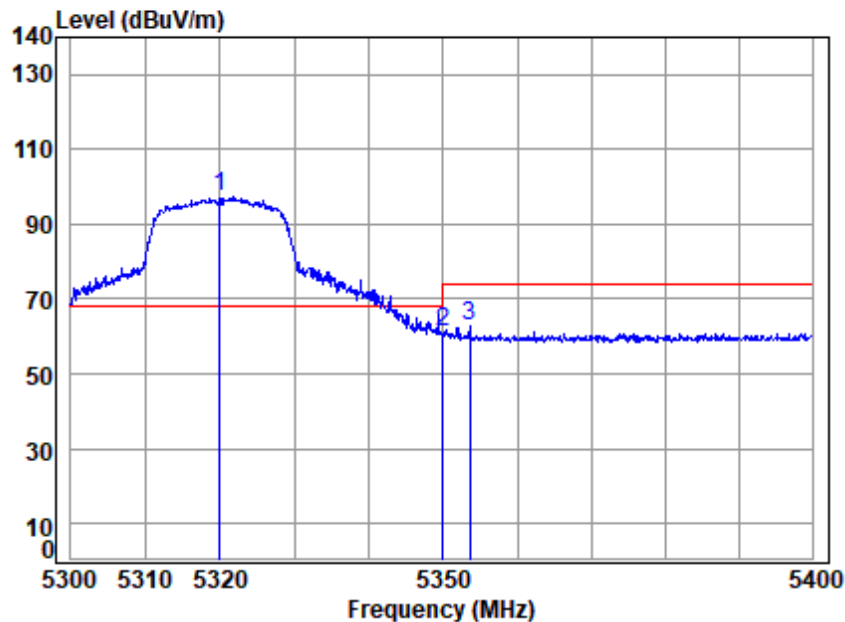


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5180 Band edge
: 5G WIFI 11AC20

		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 q 5124.022	18.40	33.95	31.27	26.66	47.74	54.00	-6.26	Average
2 5149.980	18.47	33.90	31.28	26.29	47.38	54.00	-6.62	Average
3 5180.000	18.56	33.96	31.30	60.45	81.67	-----	-----	Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

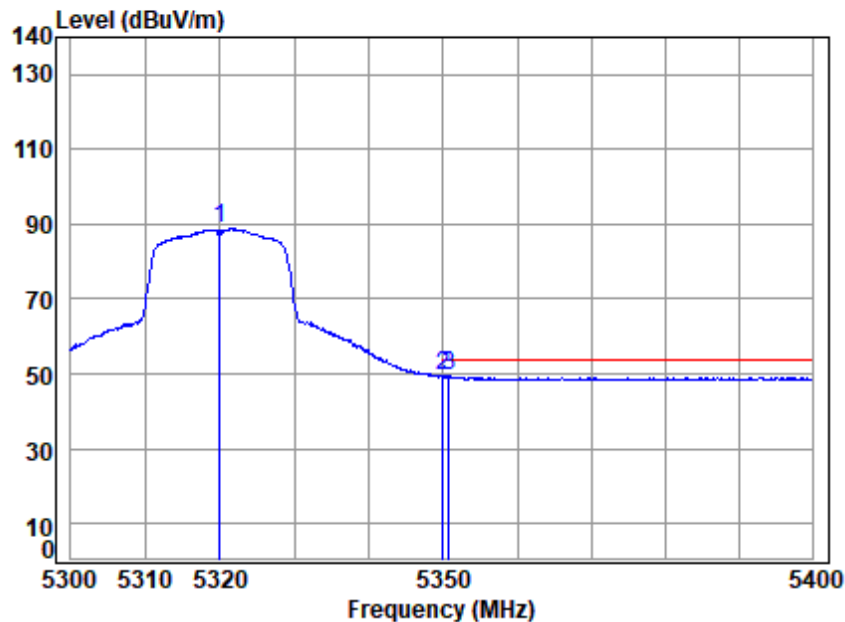


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03787IT\03860IT
 Mode : 5320 Band edge
 : 5G WIFI 11AC20

		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 p 5320.000	18.94	34.28	31.37	75.70	97.55	68.20	29.35	peak
2 5350.020	19.03	34.40	31.39	39.19	61.23	74.00	-12.77	peak
3 5353.568	19.04	34.41	31.39	40.74	62.80	74.00	-11.20	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

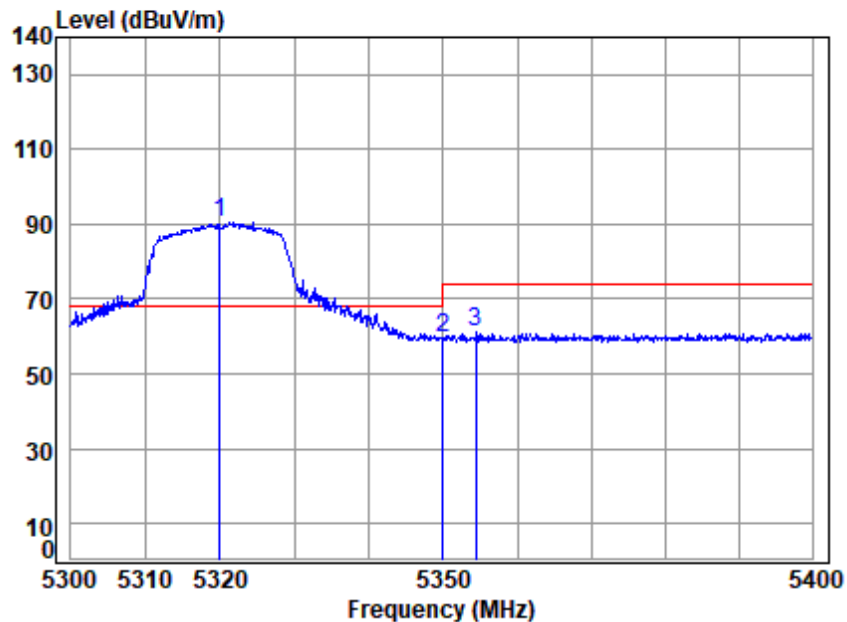


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5320 Band edge
: 5G WIFI 11AC20

		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 5320.000	18.94	34.28	31.37	67.03	88.88	-----	-----	Average
2 q 5350.020	19.03	34.40	31.39	27.45	49.49	54.00	-4.51	Average
3 5350.767	19.03	34.40	31.39	27.28	49.32	54.00	-4.68	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

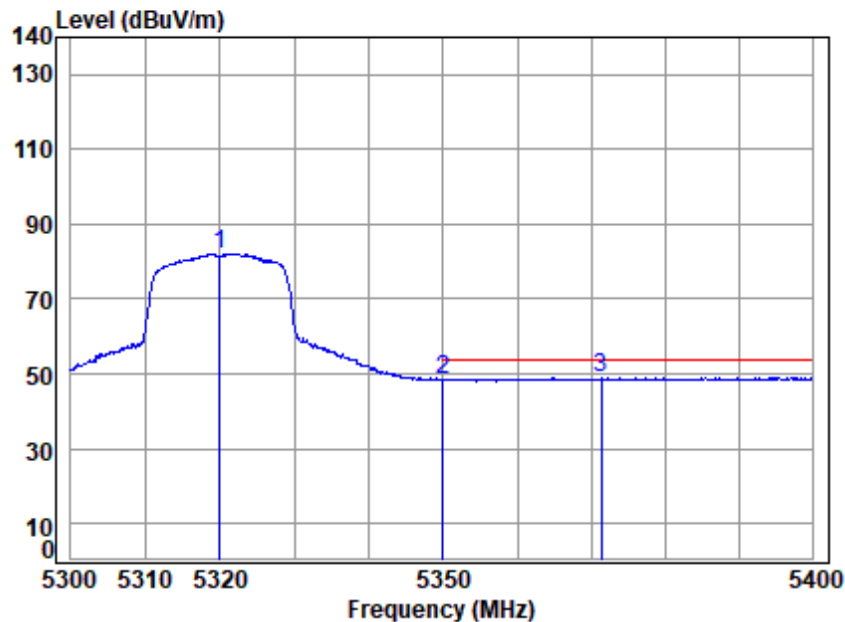


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5320 Band edge
: 5G WIFI 11AC20

		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 p 5320.000	18.94	34.28	31.37	68.61	90.46	68.20	22.26	peak
2 5350.020	19.03	34.40	31.39	37.43	59.47	74.00	-14.53	peak
3 5354.468	19.04	34.42	31.39	39.40	61.47	74.00	-12.53	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

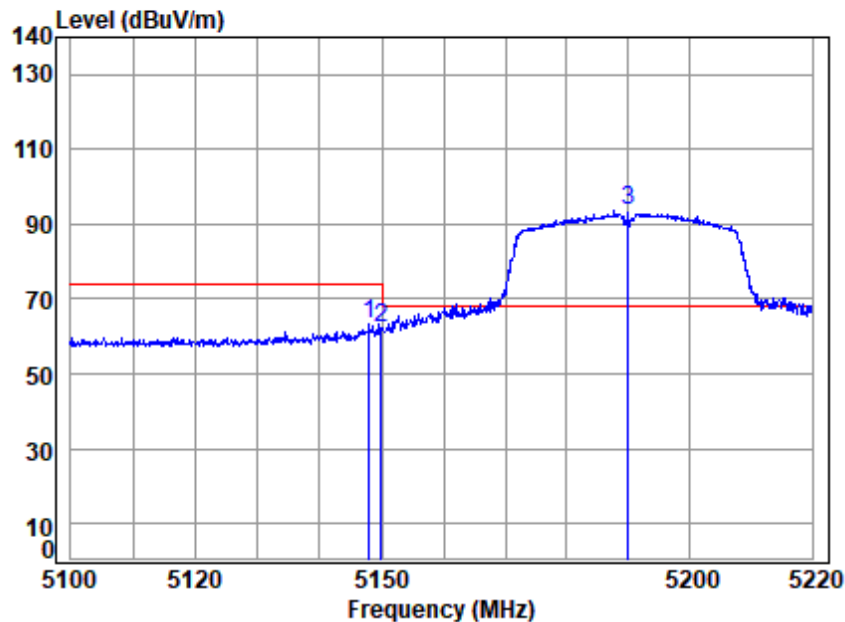


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5320 Band edge
: 5G WIFI 11AC20

		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	5320.000	18.94	34.28	31.37	60.31	82.16	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.49	48.53	54.00	-5.47 Average
3 q	5371.410	19.08	34.49	31.40	26.90	49.07	54.00	-4.93 Average



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

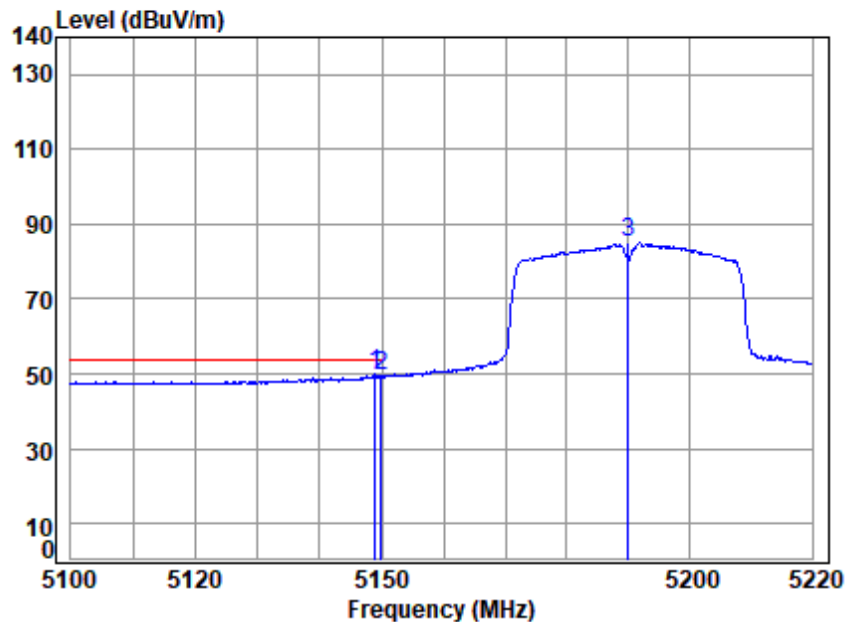


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		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	5147.905	18.47	33.90	31.28	42.04	63.13	74.00	-10.87 peak
2	5149.980	18.47	33.90	31.28	41.41	62.50	74.00	-11.50 peak
3 p	5190.000	18.58	33.98	31.30	72.30	93.56	68.20	25.36 peak



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

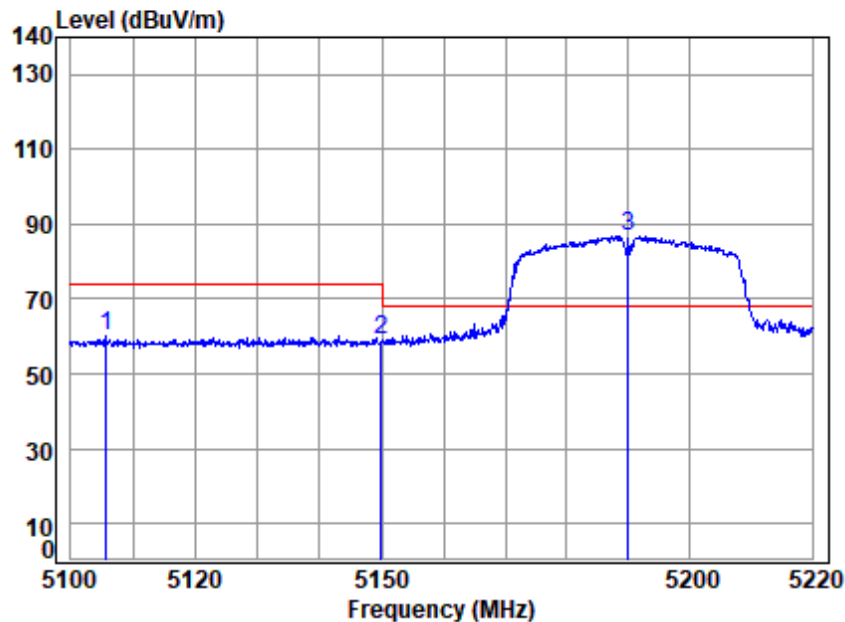


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		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 q 5148.982	18.47	33.90	31.28	28.72	49.81	54.00	-4.19	Average
2 5149.980	18.47	33.90	31.28	28.47	49.56	54.00	-4.44	Average
3 5190.000	18.58	33.98	31.30	63.68	84.94	-----	-----	Average



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

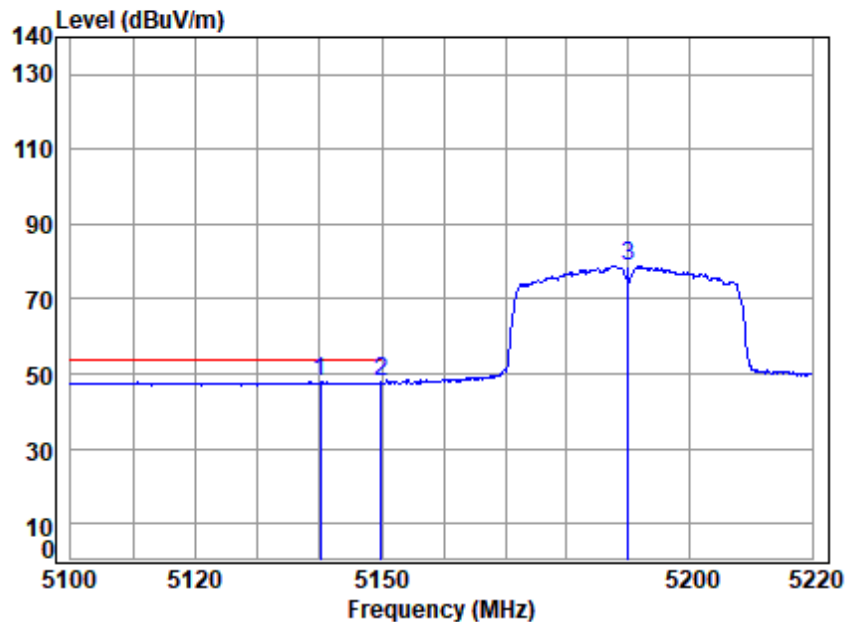


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		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	5105.696	18.35	33.99	31.26	39.01	60.09	74.00	-13.91 peak
2	5149.980	18.47	33.90	31.28	38.11	59.20	74.00	-14.80 peak
3 p	5190.000	18.58	33.98	31.30	65.76	87.02	68.20	18.82 peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

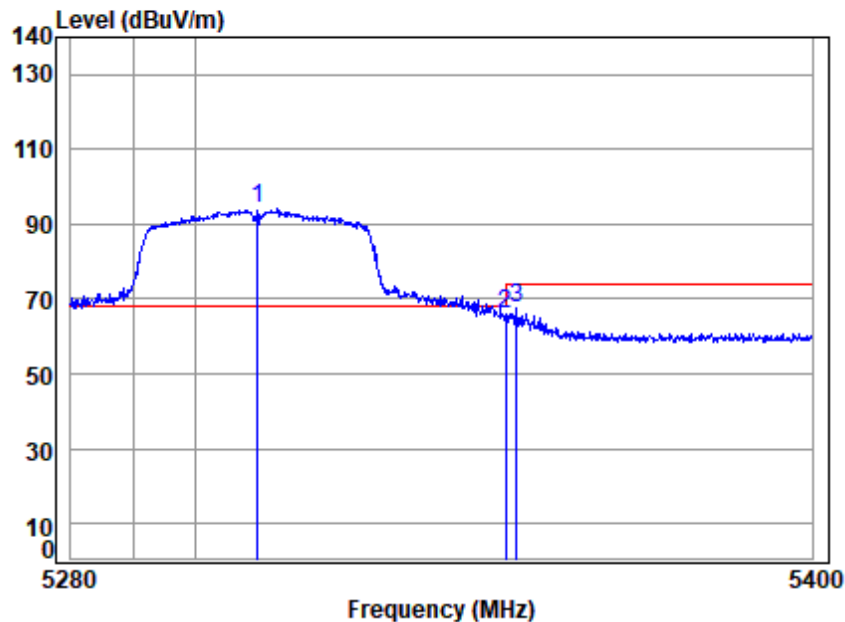


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5190 Band edge
: 5G WIFI 11AC40

		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 q 5140.128	18.44	33.92	31.28	26.77	47.85	54.00	-6.15	Average
2 5149.980	18.47	33.90	31.28	26.67	47.76	54.00	-6.24	Average
3 5190.000	18.58	33.98	31.30	57.59	78.85	-----	-----	Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

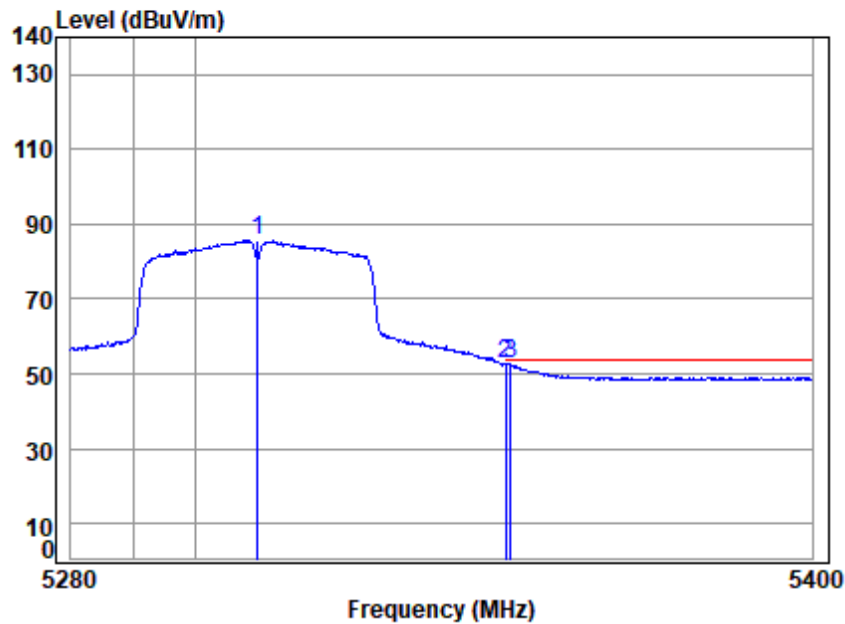


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5310 Band edge
: 5G WIFI 11AC40

		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 p 5310.000	18.92	34.24	31.36	72.61	94.41	68.20	26.21	peak
2 5350.020	19.03	34.40	31.39	43.88	65.92	74.00	-8.08	peak
3 5351.917	19.03	34.41	31.39	45.76	67.81	74.00	-6.19	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

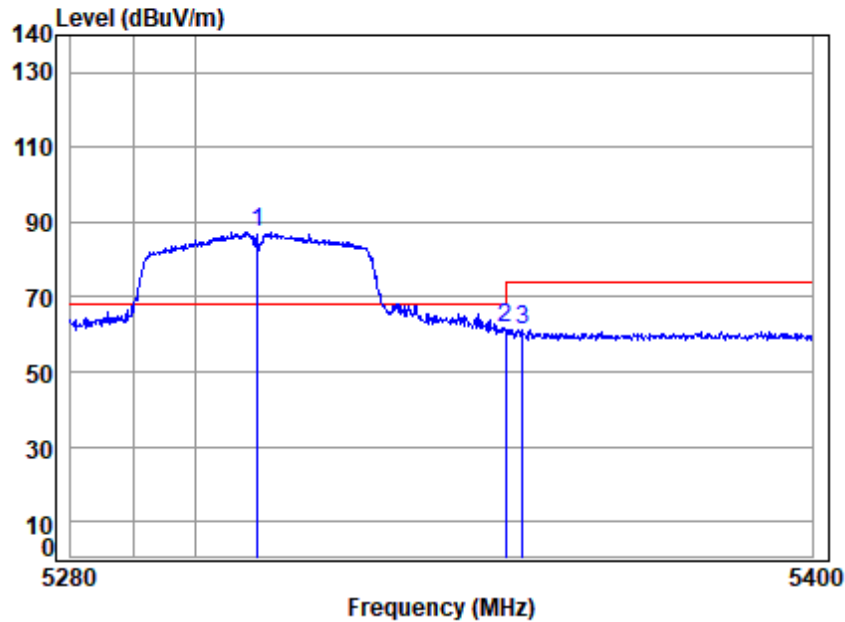


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5310 Band edge
: 5G WIFI 11AC40

		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 5310.000	18.92	34.24	31.36	63.75	85.55	-----	-----	Average
2 q 5350.020	19.03	34.40	31.39	30.64	52.68	54.00	-1.32	Average
3 5350.955	19.03	34.40	31.39	30.59	52.63	54.00	-1.37	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

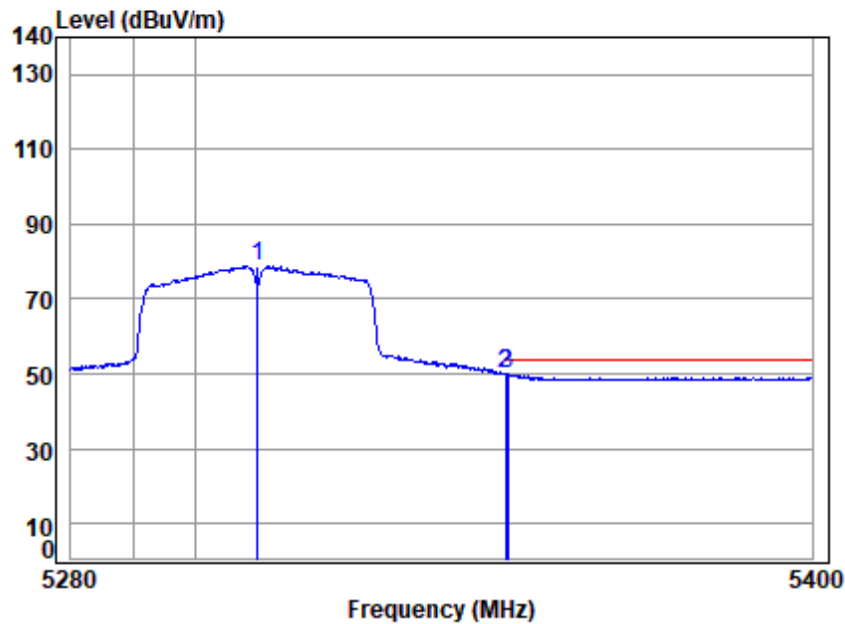


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5310 Band edge
: 5G WIFI 11AC40

		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 p 5310.000	18.92	34.24	31.36	65.66	87.46	68.20	19.26	peak
2 5350.020	19.03	34.40	31.39	39.51	61.55	74.00	-12.45	peak
3 5352.879	19.03	34.41	31.39	39.11	61.16	74.00	-12.84	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

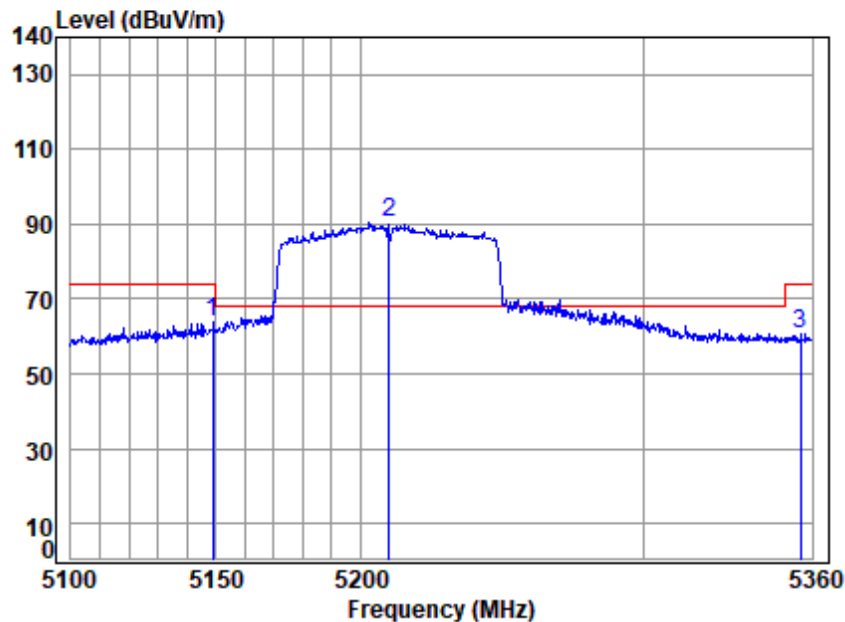


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5310 Band edge
: 5G WIFI 11AC40

		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	5310.000	18.92	34.24	31.36	56.82	78.62	-----	----- Average
2 q	5350.020	19.03	34.40	31.39	28.07	50.11	54.00	-3.89 Average
3	5350.474	19.03	34.40	31.39	27.85	49.89	54.00	-4.11 Average



Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5210 Band edge
: 5G WIFI 11AC80

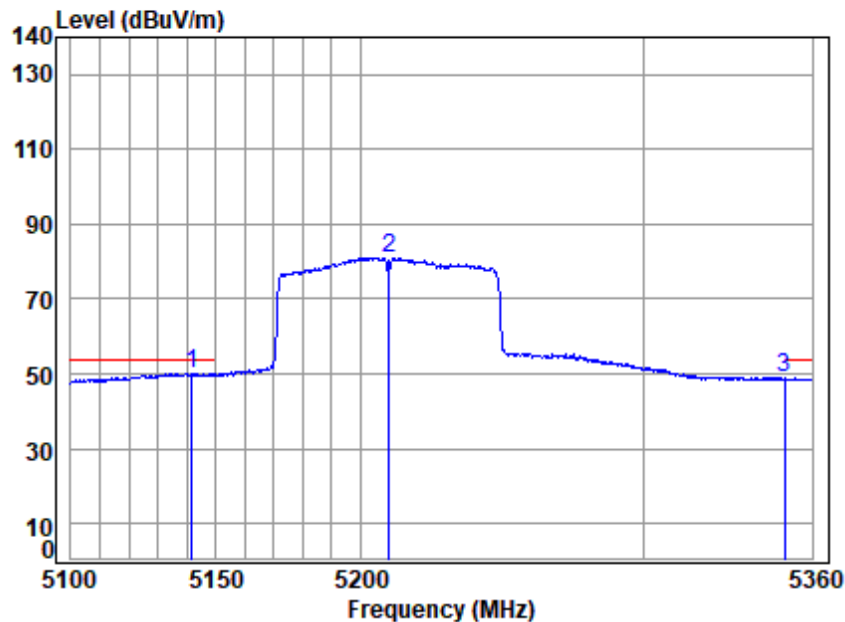
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.922	18.47	33.90	31.28	42.79	63.88	74.00	-10.12	peak
2 p	5210.000	18.64	34.02	31.31	69.07	90.42	68.20	22.22	peak
3	5356.004	19.04	34.42	31.39	38.48	60.55	74.00	-13.45	peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

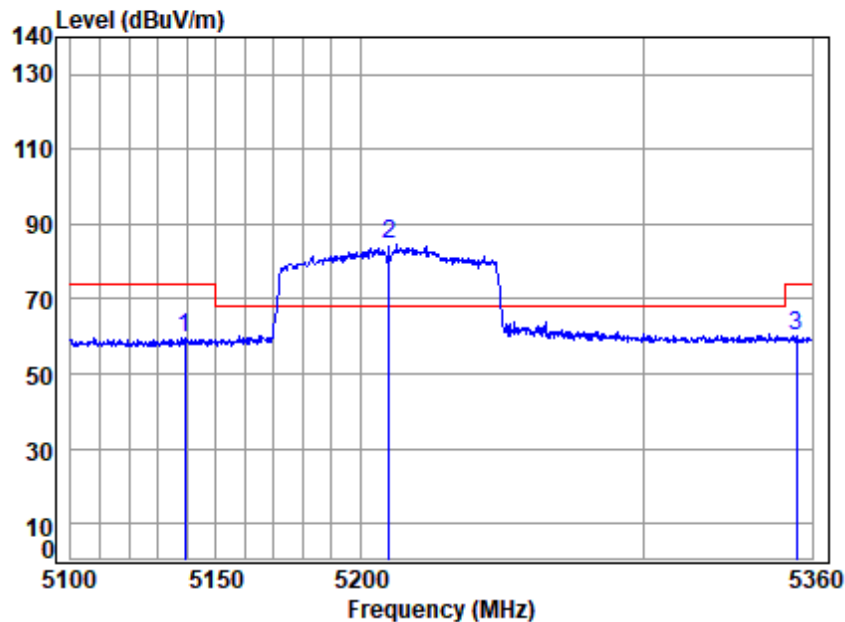


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		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 q 5141.759	18.45	33.92	31.28	29.15	50.24	54.00	-3.76	Average
2 5210.000	18.64	34.02	31.31	59.75	81.10	-----	-----	Average
3 5350.148	19.03	34.40	31.39	26.69	48.73	54.00	-5.27	Average



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

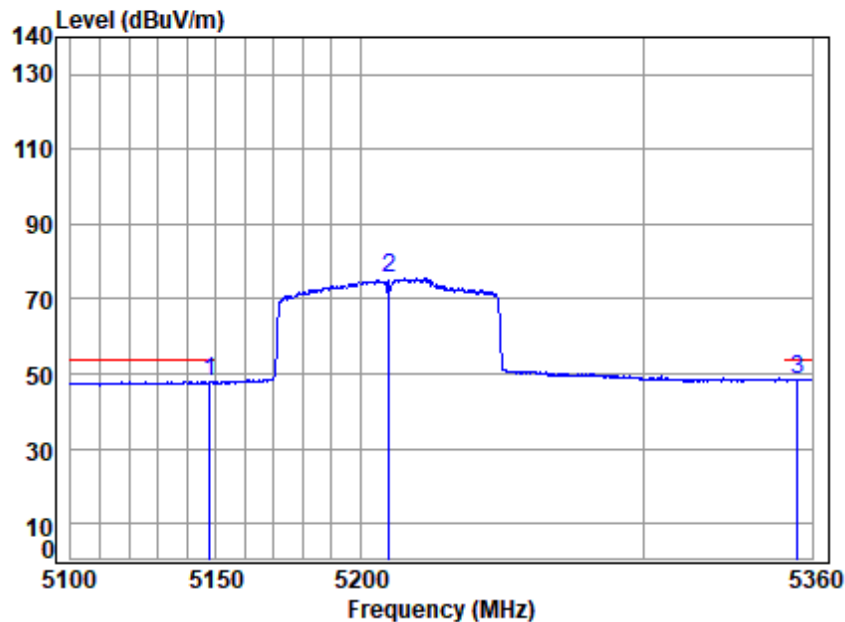


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		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	5139.203	18.44	33.92	31.28	38.64	59.72	74.00	-14.28	peak
2 p	5210.000	18.64	34.02	31.31	63.36	84.71	68.20	16.51	peak
3	5354.406	19.04	34.42	31.39	37.92	59.99	74.00	-14.01	peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

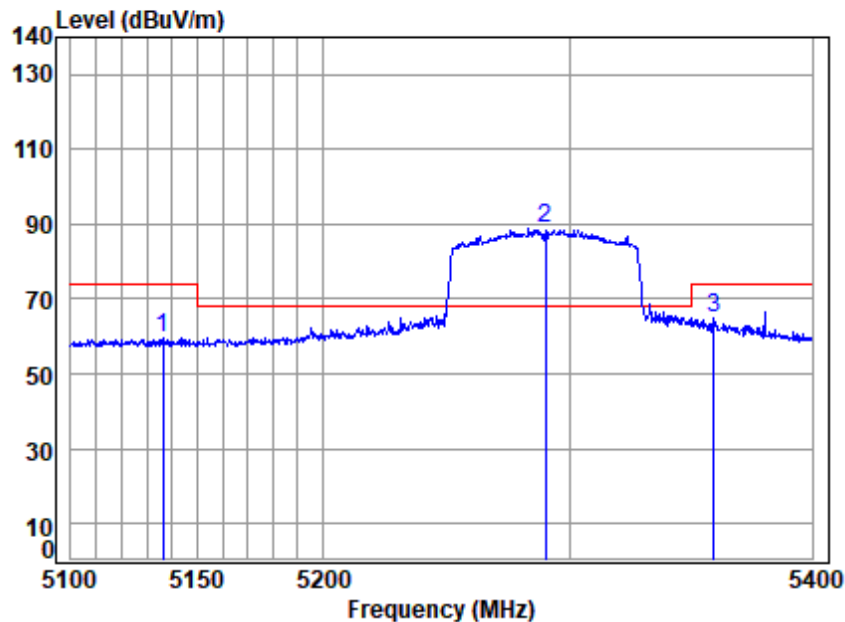


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		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	5147.643	18.46	33.90	31.28	26.91	47.99	54.00	-6.01 Average
2	5210.000	18.64	34.02	31.31	54.15	75.50	-----	----- Average
3 q	5354.672	19.04	34.42	31.39	26.57	48.64	54.00	-5.36 Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

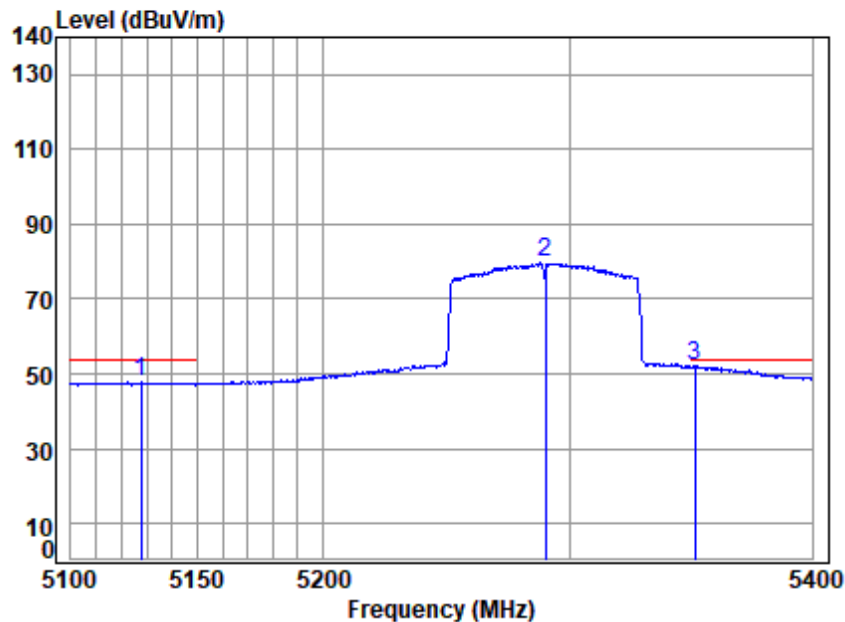


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5290 Band edge
: 5G WIFI 11AC80

		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 5136.275	18.43	33.93	31.27	38.41	59.50	74.00	-14.50	peak
2 p 5290.000	18.86	34.18	31.35	67.02	88.71	68.20	20.51	peak
3 5359.104	19.05	34.44	31.39	42.87	64.97	74.00	-9.03	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

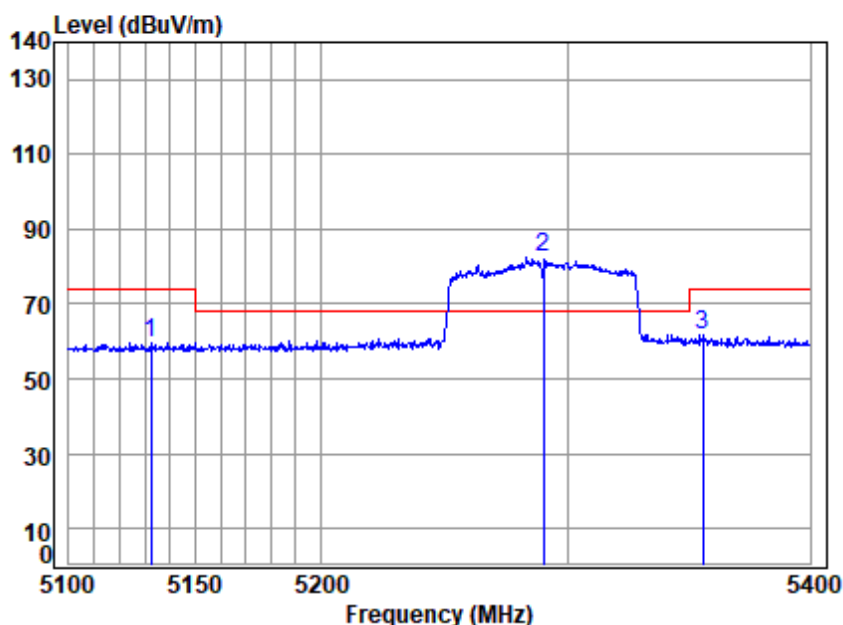


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5290 Band edge
: 5G WIFI 11AC80

		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	5127.769	18.41	33.94	31.27	26.71	47.79	54.00	-6.21 Average
2	5290.000	18.86	34.18	31.35	57.95	79.64	-----	----- Average
3 q	5351.452	19.03	34.41	31.39	29.94	51.99	54.00	-2.01 Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

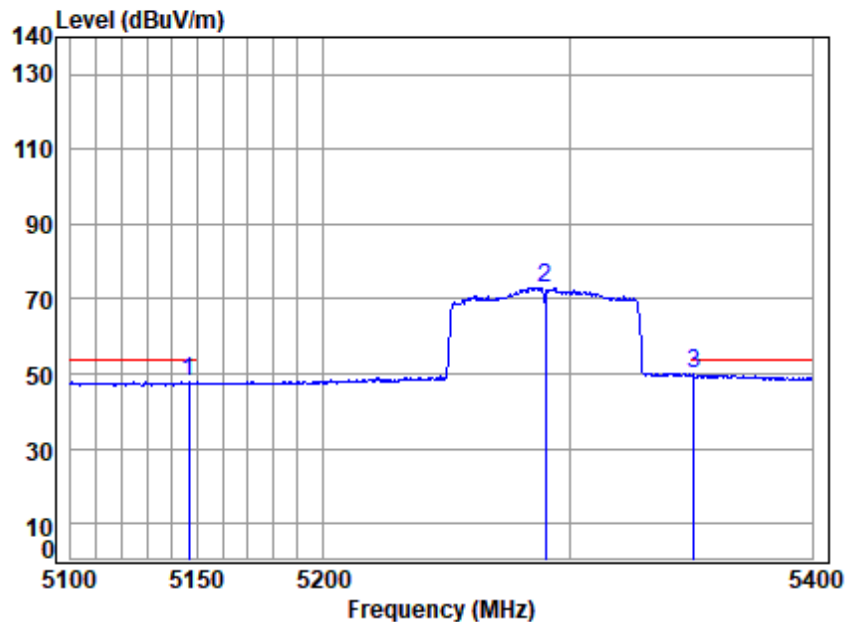


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5290 Band edge
: 5G WIFI 11AC80

		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	5132.460	18.42	33.94	31.27	38.53	59.62	74.00	-14.38 peak
2 p	5290.000	18.86	34.18	31.35	60.89	82.58	68.20	14.38 peak
3	5355.736	19.04	34.42	31.39	39.53	61.60	74.00	-12.40 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

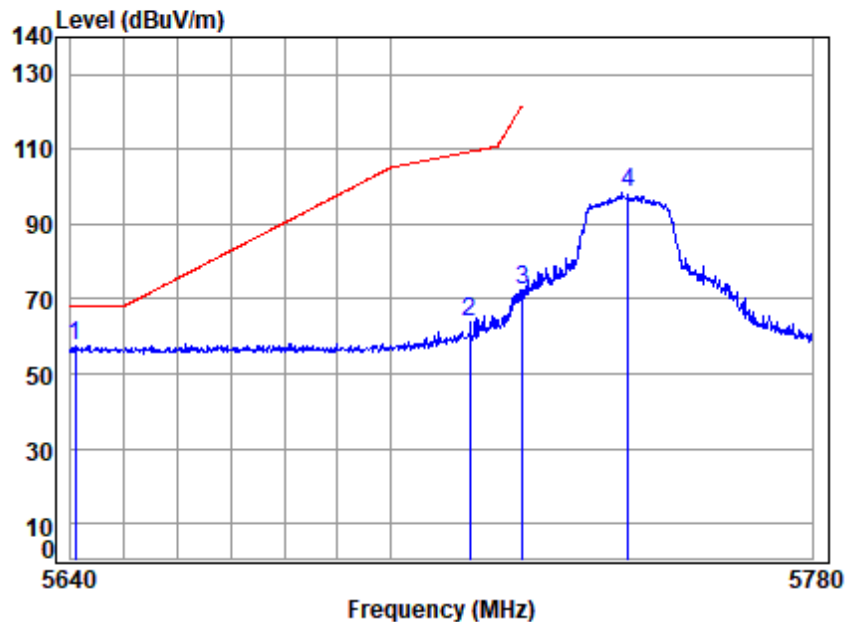


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5290 Band edge
: 5G WIFI 11AC80

		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	5146.855	18.46	33.91	31.28	26.87	47.96	54.00	-6.04 Average
2	5290.000	18.86	34.18	31.35	51.42	73.11	-----	----- Average
3 q	5351.146	19.03	34.40	31.39	27.87	49.91	54.00	-4.09 Average



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

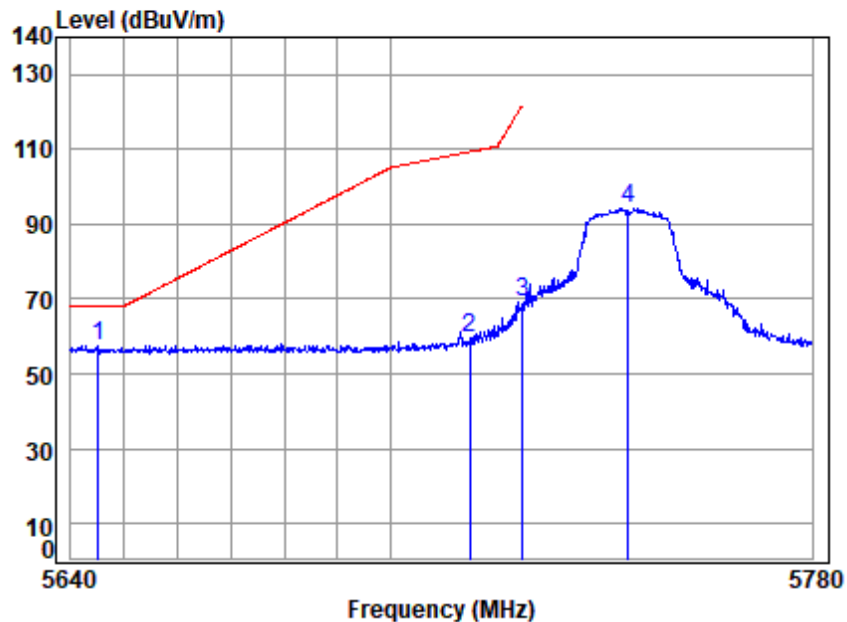


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5745 Band edge
: 5G WIFI 11A

		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 p	5640.830	19.68	34.46	31.53	35.04	57.65	68.20	-10.55 peak
2	5715.000	19.81	34.27	31.57	41.12	63.63	109.40	-45.77 peak
3	5725.000	19.83	34.25	31.57	50.15	72.66	122.20	-49.54 peak
4	5745.000	19.87	34.21	31.58	75.76	98.26	-----	----- peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

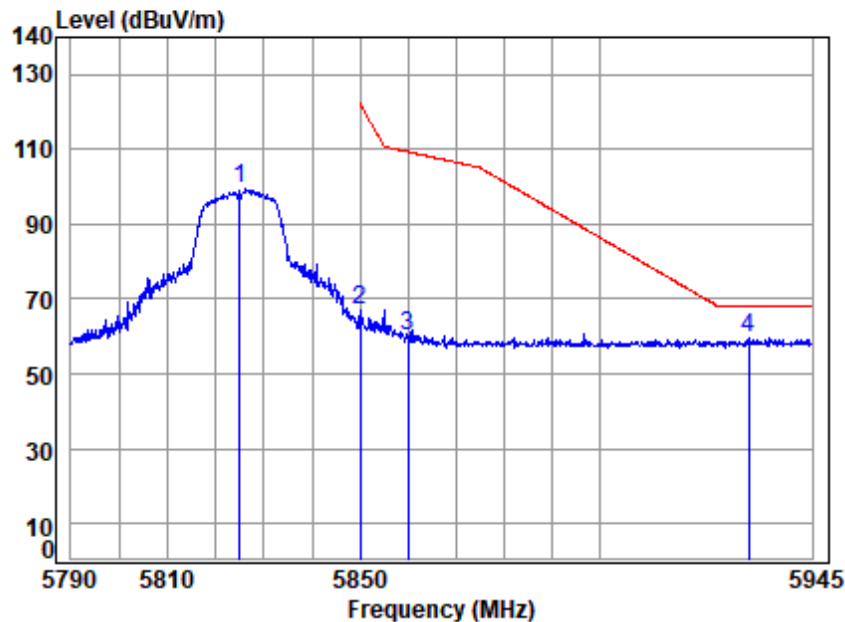


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5745 Band edge
: 5G WIFI 11A

		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 p 5645.119	19.69	34.43	31.53	35.17	57.76	68.20	-10.44	peak
2 5715.000	19.81	34.27	31.57	37.12	59.63	109.40	-49.77	peak
3 5725.000	19.83	34.25	31.57	46.71	69.22	122.20	-52.98	peak
4 5745.000	19.87	34.21	31.58	71.90	94.40	-----	-----	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

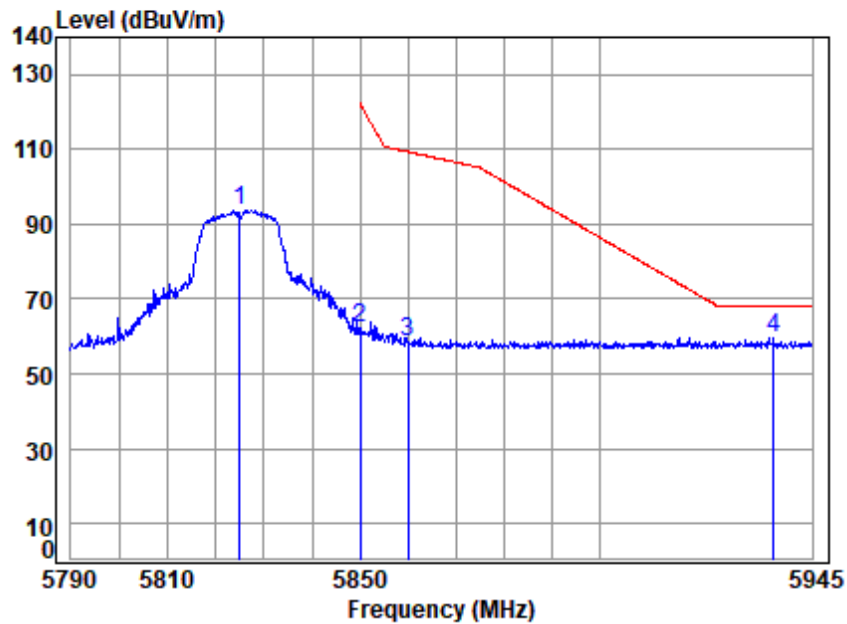


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5825 Band edge
: 5G WIFI 11A

		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	5825.000	20.00	34.35	31.62	76.64	99.37	-----	----- peak
2	5850.000	20.05	34.40	31.63	44.13	66.95	122.20	-55.25 peak
3	5860.000	20.06	34.44	31.64	37.12	59.98	109.40	-49.42 peak
4 p	5931.665	20.19	34.66	31.67	36.39	59.57	68.20	-8.63 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

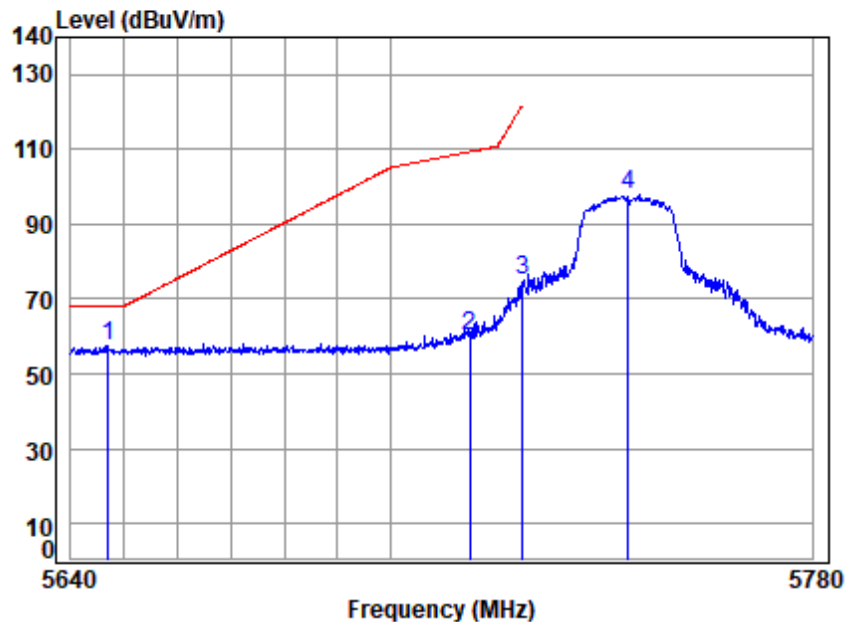


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5825 Band edge
: 5G WIFI 11A

		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 5825.000	20.00	34.35	31.62	70.97	93.70	-----	-----	peak
2 5850.000	20.05	34.40	31.63	39.51	62.33	122.20	-59.87	peak
3 5860.000	20.06	34.44	31.64	35.82	58.68	109.40	-50.72	peak
4 p 5936.839	20.19	34.67	31.67	36.25	59.44	68.20	-8.76	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

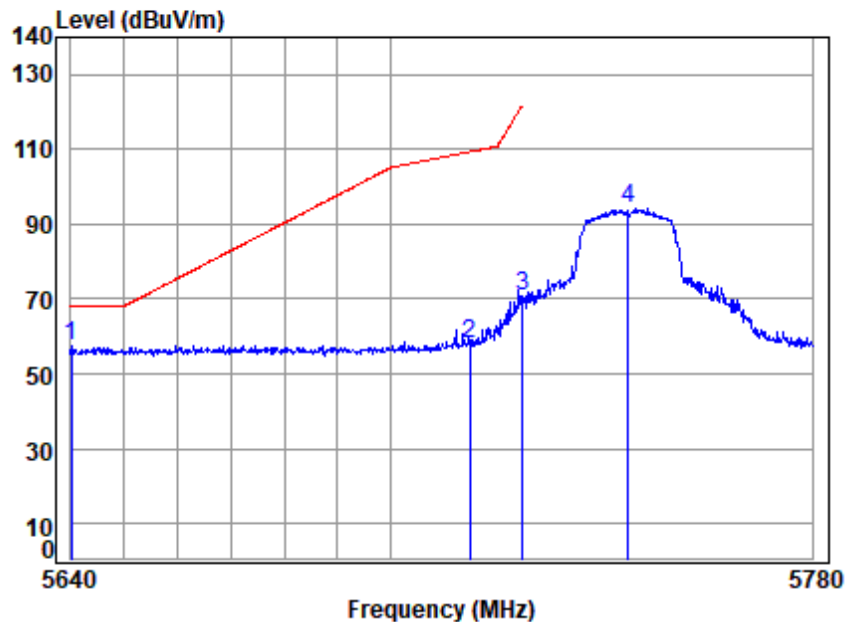


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5745 Band edge
: 5G WIFI 11AC20

		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 p	5646.919	19.69	34.42	31.53	35.06	57.64	68.20	-10.56 peak
2	5715.000	19.81	34.27	31.57	37.82	60.33	109.40	-49.07 peak
3	5725.000	19.83	34.25	31.57	52.42	74.93	122.20	-47.27 peak
4	5745.000	19.87	34.21	31.58	75.35	97.85	-----	----- peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 03787IT\03860IT
 Mode : 5745 Band edge
 : 5G WIFI 11AC20

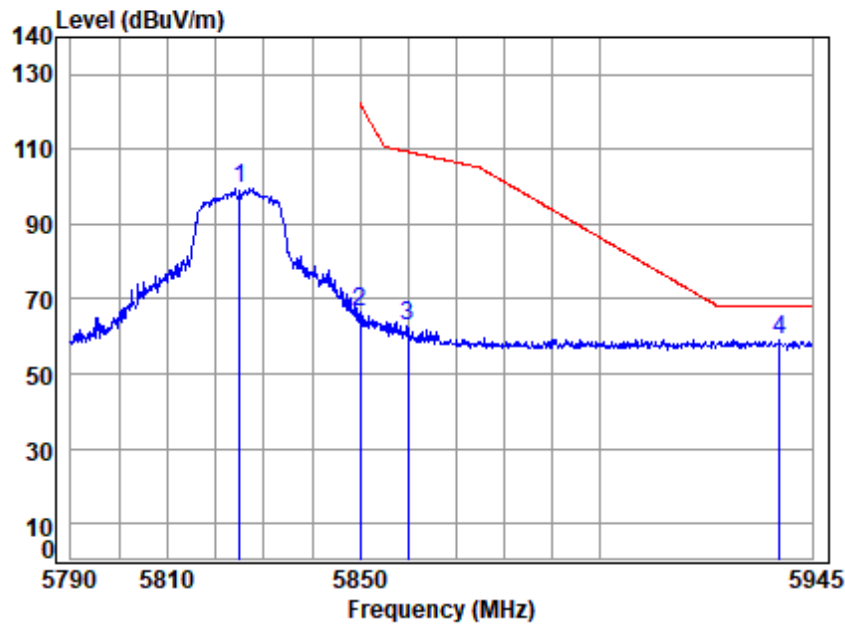
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5640.138	19.68	34.46	31.53	34.71	57.32	68.20	-10.88 peak
2	5715.000	19.81	34.27	31.57	35.53	58.04	109.40	-51.36 peak
3	5725.000	19.83	34.25	31.57	48.46	70.97	122.20	-51.23 peak
4	5745.000	19.87	34.21	31.58	71.57	94.07	-----	----- peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

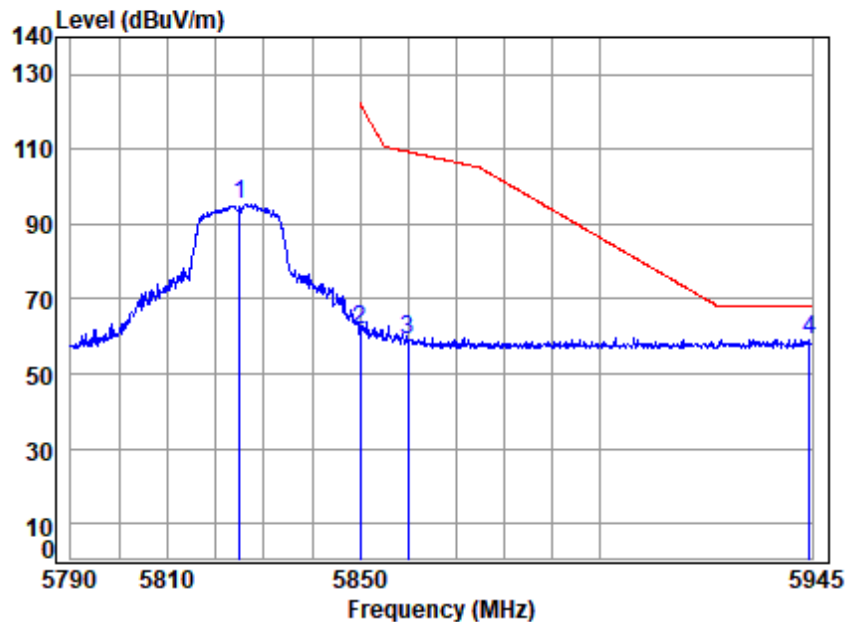


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5825 Band edge
: 5G WIFI 11AC20

		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	5825.000	20.00	34.35	31.62	76.74	99.47	-----	----- peak
2	5850.000	20.05	34.40	31.63	43.62	66.44	122.20	-55.76 peak
3	5860.000	20.06	34.44	31.64	40.21	63.07	109.40	-46.33 peak
4 p	5938.094	20.20	34.68	31.67	35.93	59.14	68.20	-9.06 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

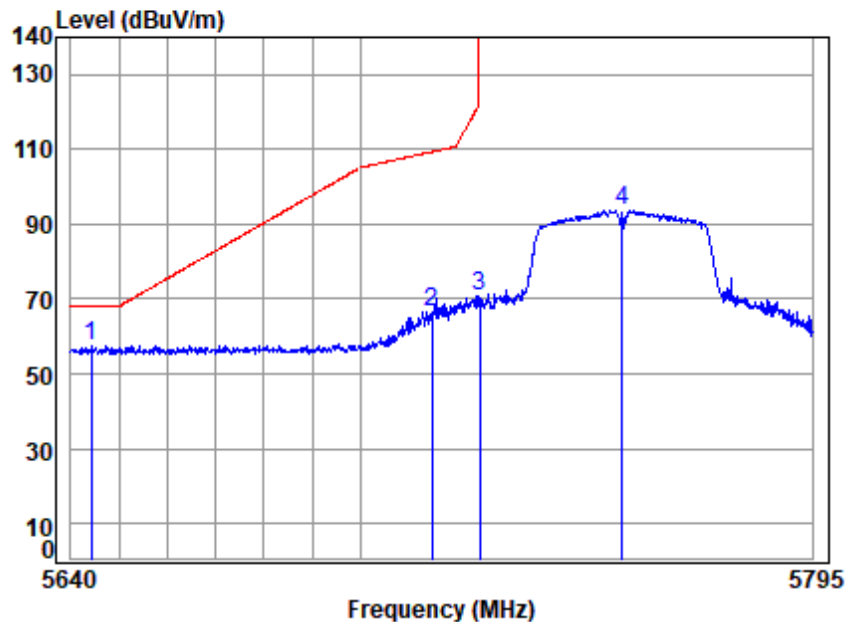


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5825 Band edge
: 5G WIFI 11AC20

		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 5825.000	20.00	34.35	31.62	72.73	95.46	-----	-----	peak
2 5850.000	20.05	34.40	31.63	39.08	61.90	122.20	-60.30	peak
3 5860.000	20.06	34.44	31.64	36.03	58.89	109.40	-50.51	peak
4 p 5944.372	20.21	34.69	31.67	35.99	59.22	68.20	-8.98	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

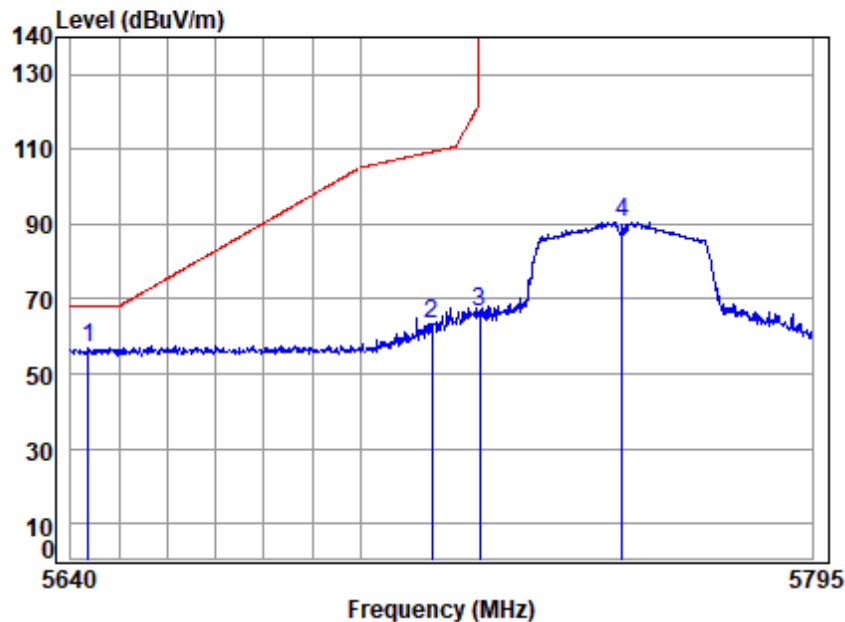


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5755 Band edge
: 5G WIFI 11AC40

		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 p 5644.283	19.69	34.43	31.53	35.15	57.74	68.20	-10.46	peak
2 5715.000	19.81	34.27	31.57	43.85	66.36	109.40	-43.04	peak
3 5725.000	19.83	34.25	31.57	48.15	70.66	122.20	-51.54	peak
4 5755.000	19.88	34.21	31.59	71.21	93.71	-----	-----	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

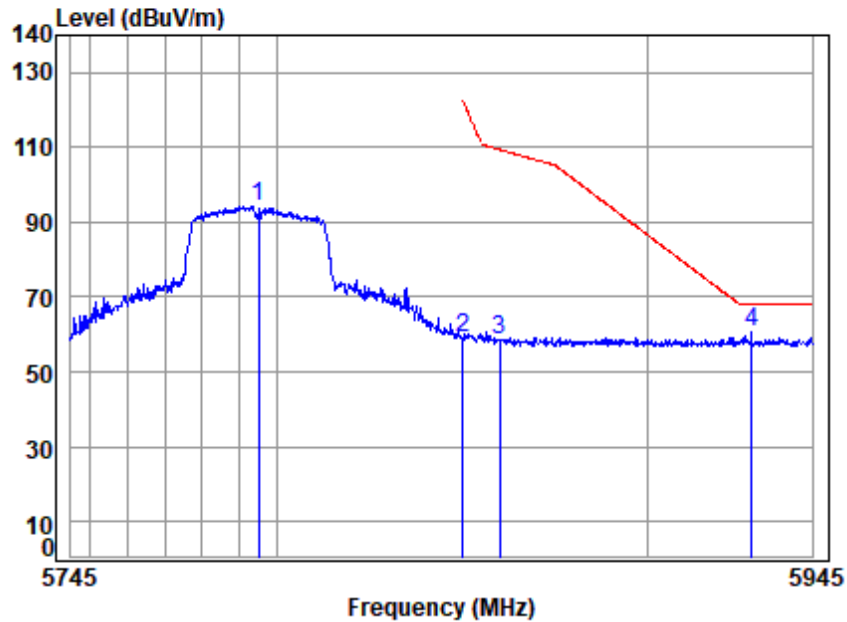


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5755 Band edge
: 5G WIFI 11AC40

		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 p	5643.671	19.69	34.44	31.53	34.51	57.11	68.20	-11.09 peak
2	5715.000	19.81	34.27	31.57	40.68	63.19	109.40	-46.21 peak
3	5725.000	19.83	34.25	31.57	44.05	66.56	122.20	-55.64 peak
4	5755.000	19.88	34.21	31.59	68.12	90.62	-----	----- peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

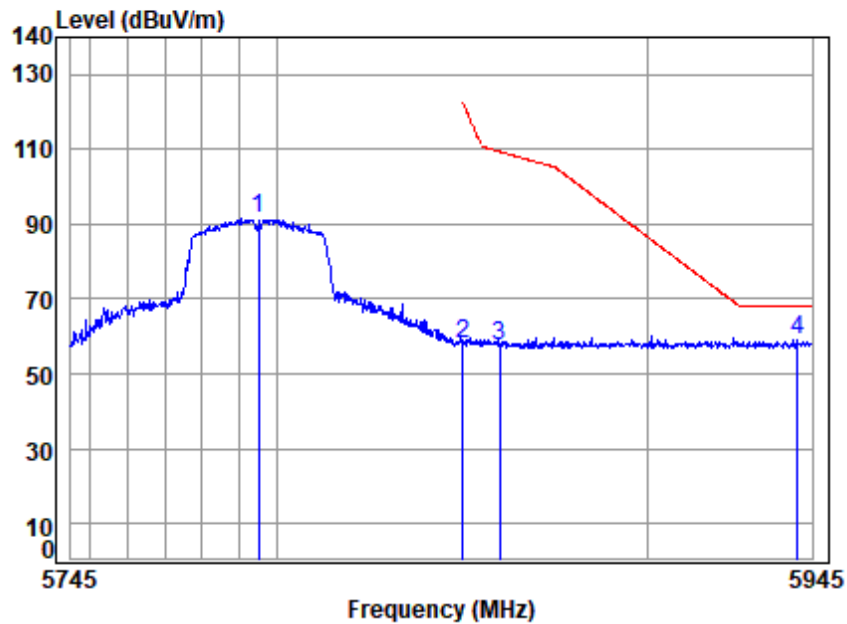


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5795 Band edge
: 5G WIFI 11AC40

		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	5795.000	19.95	34.29	31.60	71.73	94.37	-----	----- peak
2	5850.000	20.05	34.40	31.63	36.19	59.01	122.20	-63.19 peak
3	5860.000	20.06	34.44	31.64	35.66	58.52	109.40	-50.88 peak
4 p	5928.341	20.18	34.66	31.67	37.39	60.56	68.20	-7.64 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

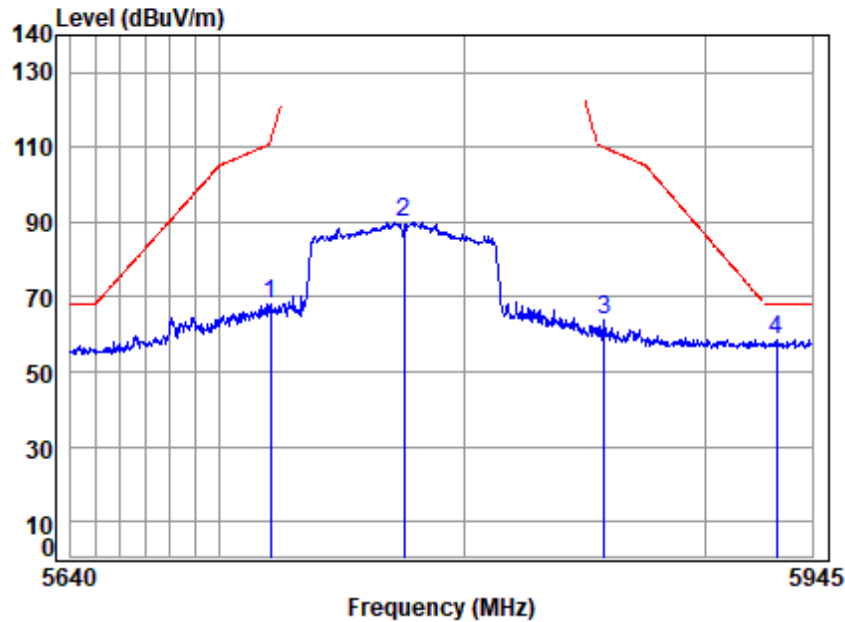


Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5795 Band edge
: 5G WIFI 11AC40

		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	5795.000	19.95	34.29	31.60	68.75	91.39	-----	----- peak
2	5850.000	20.05	34.40	31.63	35.46	58.28	122.20	-63.92 peak
3	5860.000	20.06	34.44	31.64	34.87	57.73	109.40	-51.67 peak
4 p	5940.933	20.20	34.68	31.67	35.76	58.97	68.20	-9.23 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

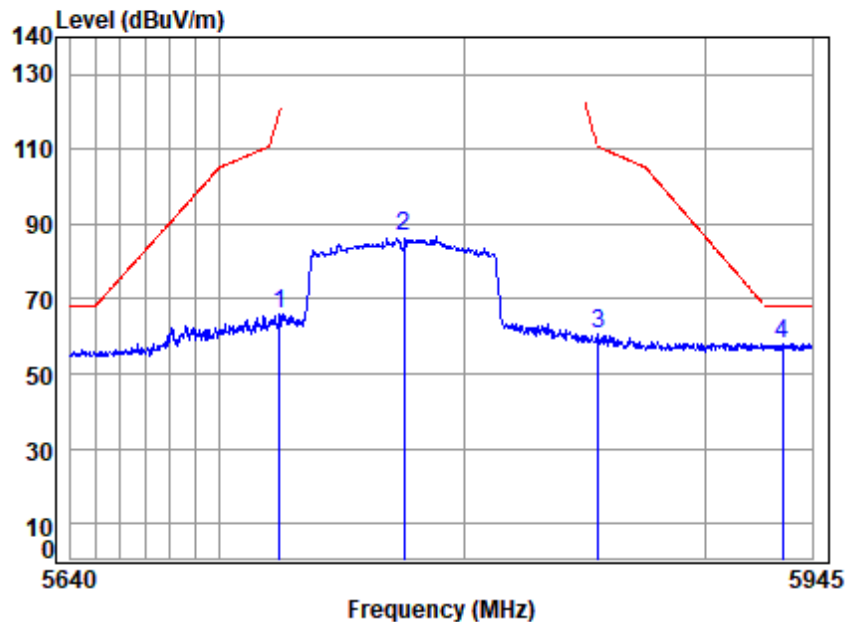


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03787IT\03860IT
Mode : 5775 Band edge
: 5G WIFI 11AC80

		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	5720.472	19.82	34.26	31.57	45.66	68.17	111.88	-43.71 peak
2	5775.000	19.92	34.25	31.60	67.58	90.15	-----	----- peak
3	5857.975	20.06	34.43	31.63	41.23	64.09	109.97	-45.88 peak
4 p	5929.990	20.18	34.66	31.67	35.51	58.68	68.20	-9.52 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03787IT\03860IT
Mode : 5775 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	5724.088	19.83	34.25	31.57	43.52	66.03	120.12	-54.09 peak
2	5775.000	19.92	34.25	31.60	64.00	86.57	-----	----- peak
3	5855.507	20.06	34.42	31.63	38.05	60.90	110.66	-49.76 peak
4 p	5932.489	20.19	34.66	31.67	34.92	58.10	68.20	-10.10 peak



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7.5 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2
Test Method: ANSI C63.10 (2020) Section 12.2

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 69.0 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, 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 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

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

7.6.1 E.U.T. Operation

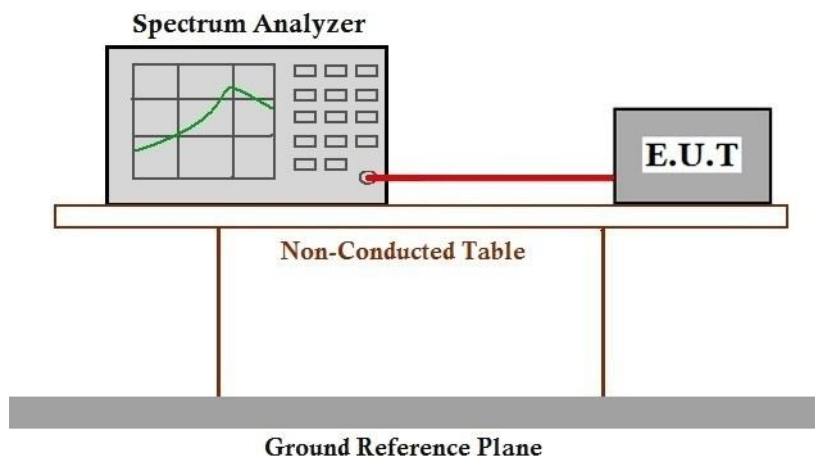
Operating Environment:

Temperature: 21.2 °C Humidity: 69.0 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram





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7.6.4 Measurement Procedure and Data

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7.7 26dB Emission bandwidth

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

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

7.7.1 E.U.T. Operation

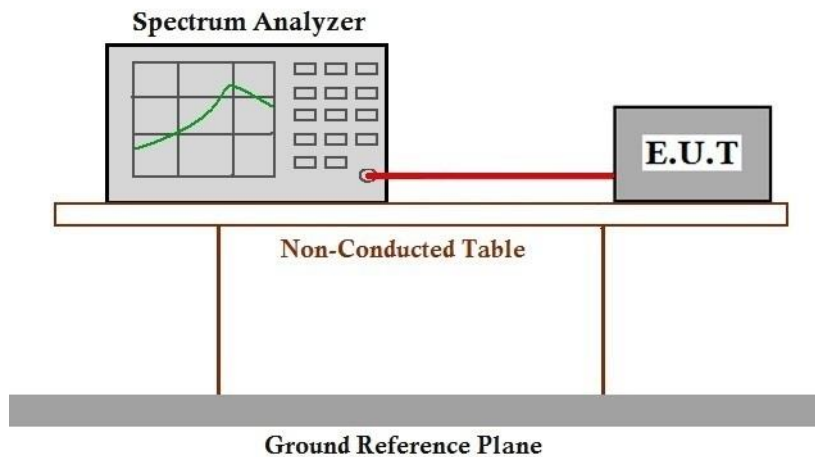
Operating Environment:

Temperature: 21.2 °C Humidity: 69.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram





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7.7.4 Measurement Procedure and Data

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

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

Test Method: ANSI C63.10 (2020) Section 12.5.1

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

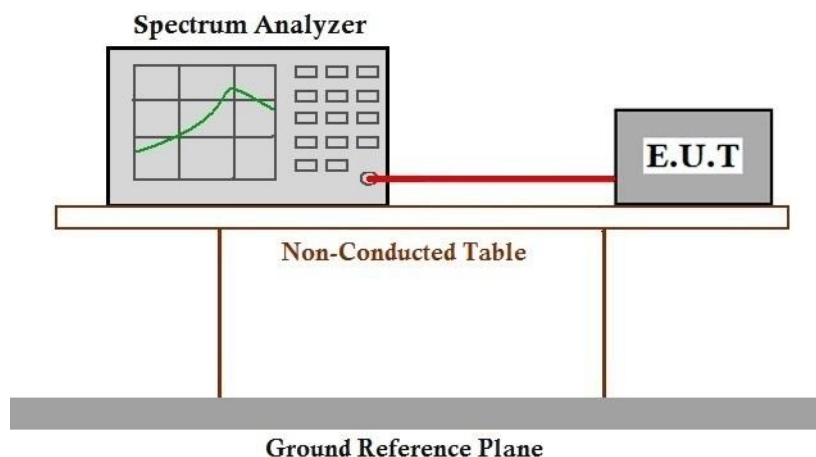
Humidity: 69.0 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.9 Maximum Conducted output power

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

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

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

Humidity: 69.0 % RH

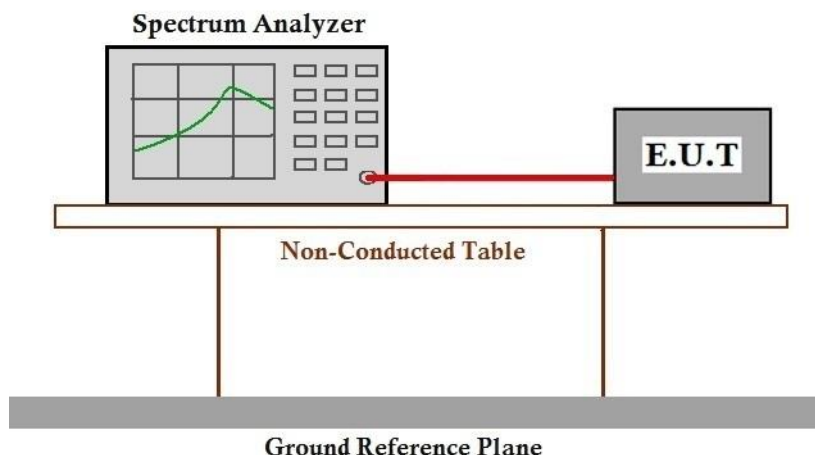
Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A)_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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.



7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details

7.10 Peak Power spectrum density

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

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

Limit:

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.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

Humidity: 69.0 % RH

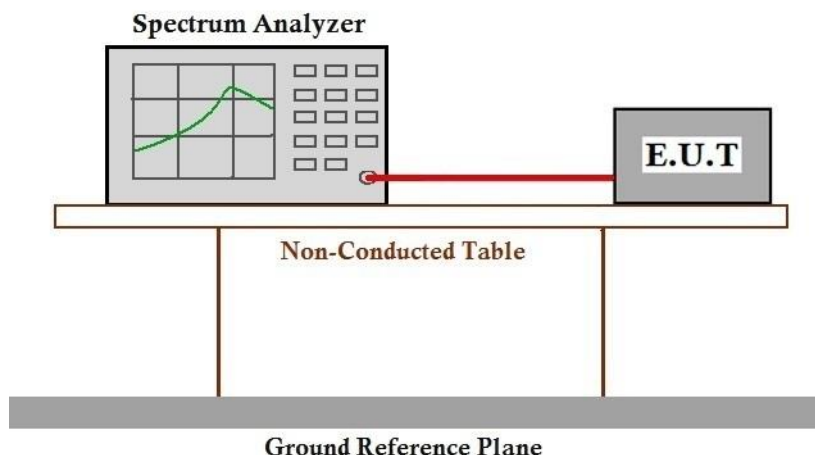
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details



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7.11 Frequency Stability

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

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

7.11.1 E.U.T. Operation

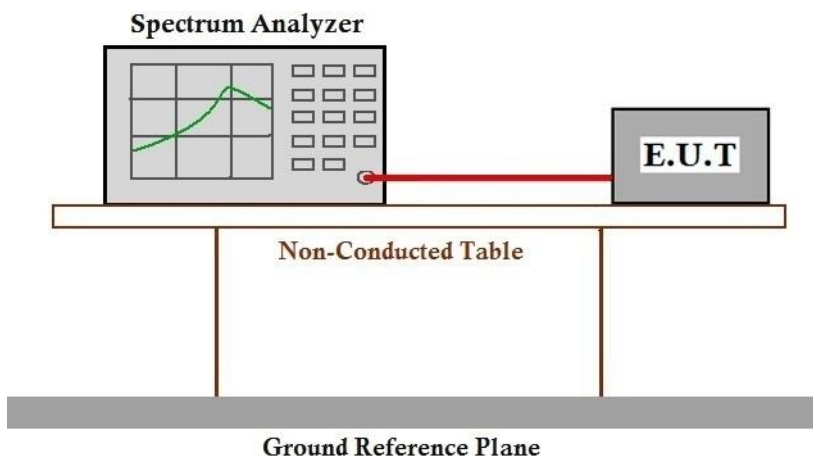
Operating Environment:

Temperature: 21.2 °C Humidity: 69.0 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



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7.11.4 Measurement Procedure and Data

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7.12 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.12.1 E.U.T. Operation

Operating Environment:

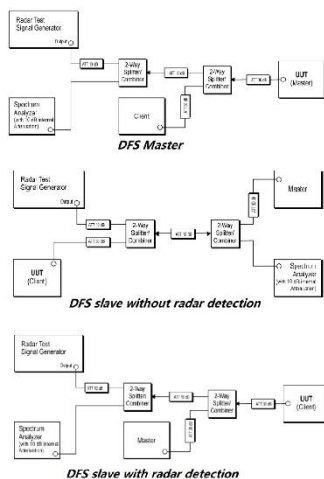
Temperature: 24.3 °C Humidity: 44.4 % RH Atmospheric Pressure: 1020 mbar



7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Normal operating_Keep the EUT communication with the companion device.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.13 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

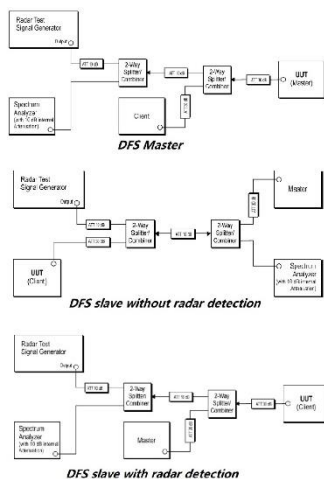
Temperature: 24.3 °C Humidity: 44.4 % RH Atmospheric Pressure: 1020 mbar



7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.14.1 E.U.T. Operation

Operating Environment:

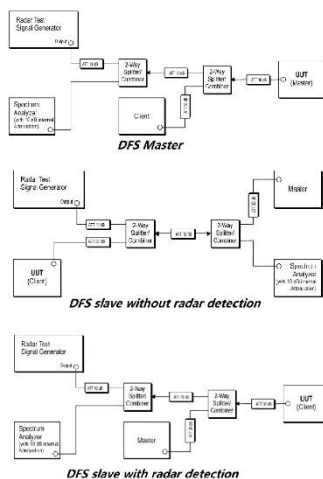
Temperature: 24.3 °C Humidity: 44.4 % RH Atmospheric Pressure: 1020 mbar



7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



7.14.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2508003787IT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2508003787IT

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.392	1.428	97.48	0.11	0.00
		5200	1.392	1.428	97.48	0.11	0.06
		5240	1.392	1.428	97.48	0.11	0.03
		5260	1.392	1.427	97.55	0.11	0.00
		5300	1.393	1.428	97.55	0.11	0.03
		5320	1.392	1.428	97.48	0.11	0.03
		5745	1.392	1.428	97.48	0.11	0.03
		5785	1.392	1.427	97.55	0.11	0.03
		5825	1.392	1.428	97.48	0.11	0.03
802.11n (HT20)	SISO	5180	1.300	1.335	97.38	0.12	0.03
		5200	1.300	1.336	97.31	0.12	0.07
		5240	1.300	1.336	97.31	0.12	0.07
		5260	1.300	1.335	97.38	0.12	0.03
		5300	1.300	1.336	97.31	0.12	0.03
		5320	1.300	1.336	97.31	0.12	0.07
		5745	1.300	1.336	97.31	0.12	0.00
		5785	1.300	1.335	97.38	0.12	0.03
		5825	1.301	1.336	97.38	0.12	0.00
802.11n (HT40)	SISO	5190	0.648	0.683	94.88	0.23	0.04
		5230	0.648	0.683	94.88	0.23	0.07
		5270	0.648	0.683	94.88	0.23	0.03
		5310	0.649	0.683	95.02	0.22	0.03
		5755	0.648	0.683	94.88	0.23	0.03
		5795	0.648	0.683	94.88	0.23	0.03
802.11ac (VHT20)	SISO	5180	1.312	1.348	97.33	0.12	0.03
		5200	1.312	1.348	97.33	0.12	0.03
		5240	1.312	1.347	97.40	0.11	0.04
		5260	1.312	1.347	97.40	0.11	0.03



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		5300	1.312	1.347	97.40	0.11	0.00
		5320	1.312	1.347	97.40	0.11	0.03
		5745	1.313	1.348	97.40	0.11	0.03
		5785	1.312	1.348	97.33	0.12	0.03
		5825	1.312	1.348	97.33	0.12	0.03
802.11ac (VHT40)	SISO	5190	0.652	0.687	94.91	0.23	0.04
		5230	0.652	0.687	94.91	0.23	0.04
		5270	0.652	0.687	94.91	0.23	0.07
		5310	0.652	0.687	94.91	0.23	0.03
		5755	0.652	0.687	94.91	0.23	0.07
		5795	0.652	0.687	94.91	0.23	0.04
802.11ac (VHT80)	SISO	5210	0.325	0.359	90.53	0.43	0.04
		5290	0.325	0.359	90.53	0.43	0.07
		5775	0.324	0.358	90.50	0.43	0.04



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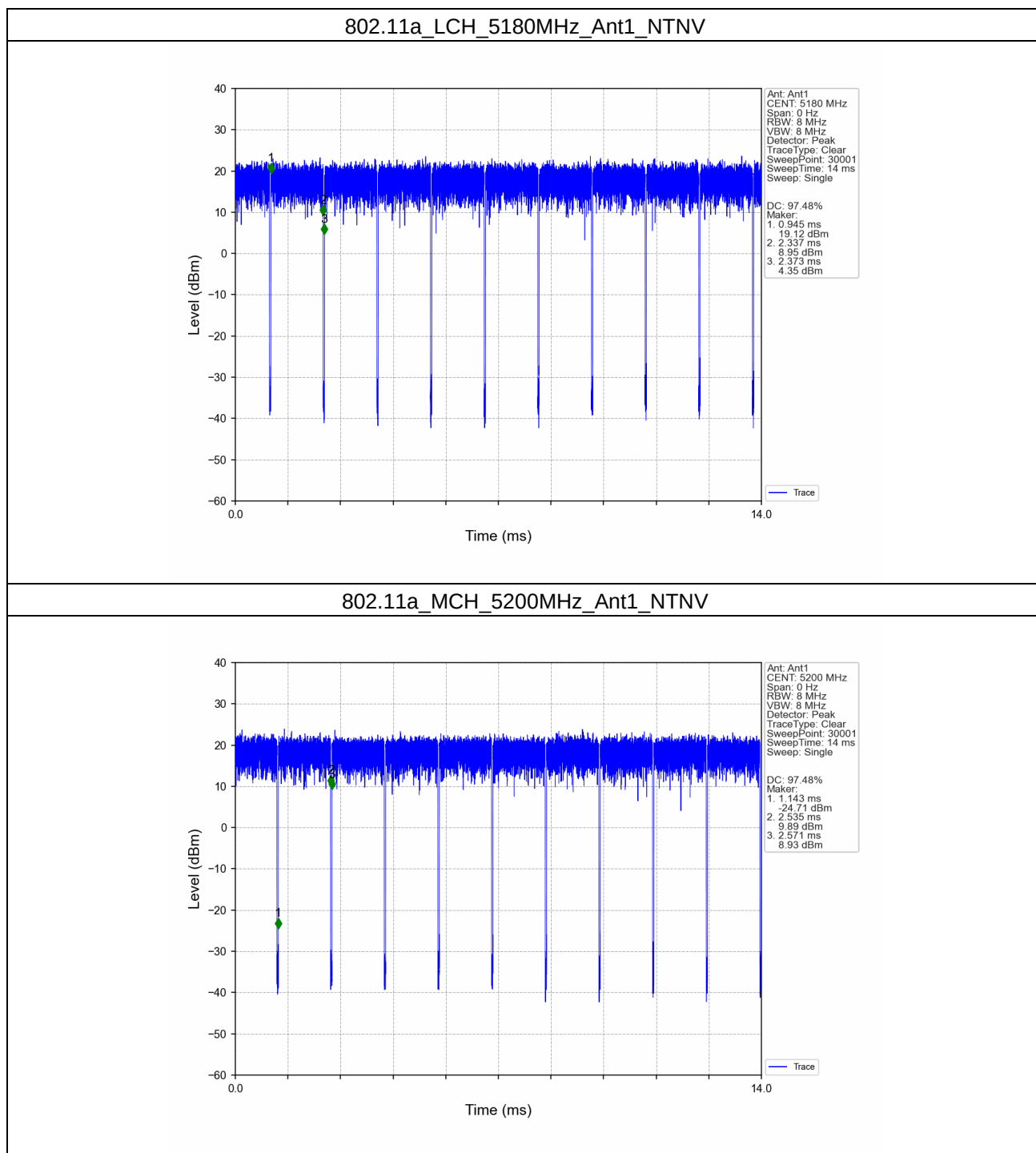
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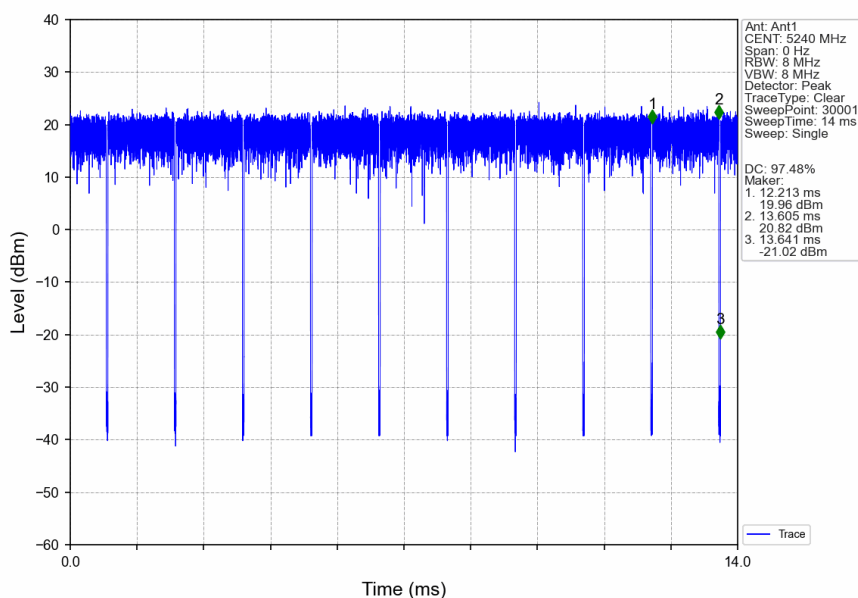
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1.2 Test Graph

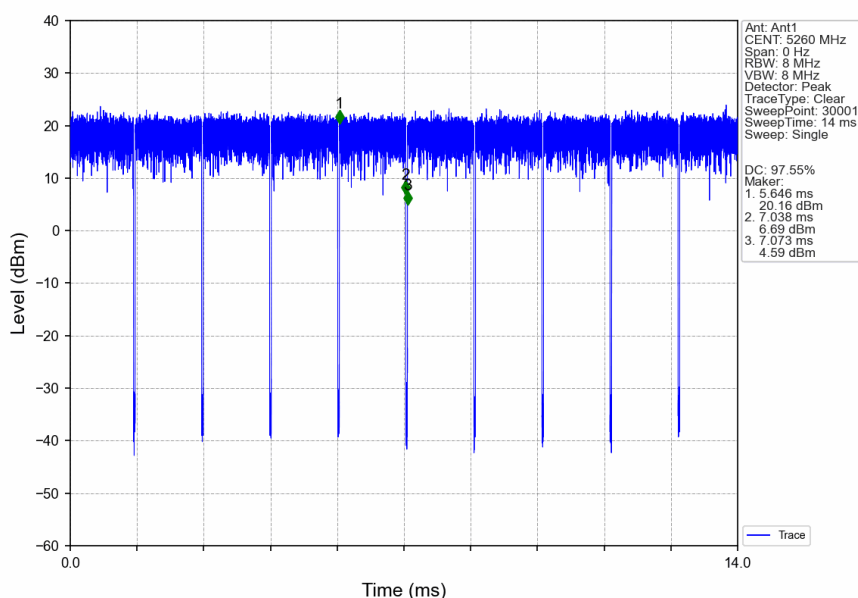
1.2.1 Ant1



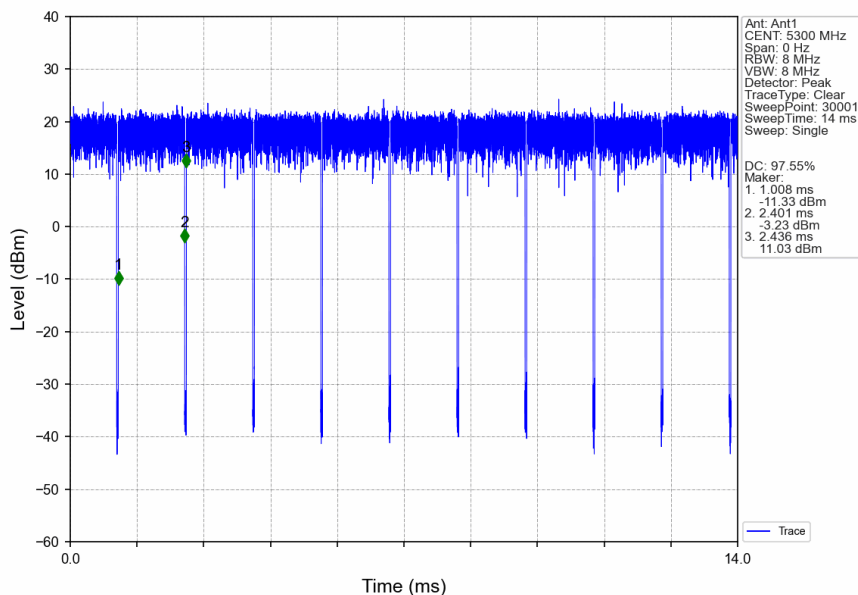
802.11a_HCH_5240MHz_Ant1_NTNV



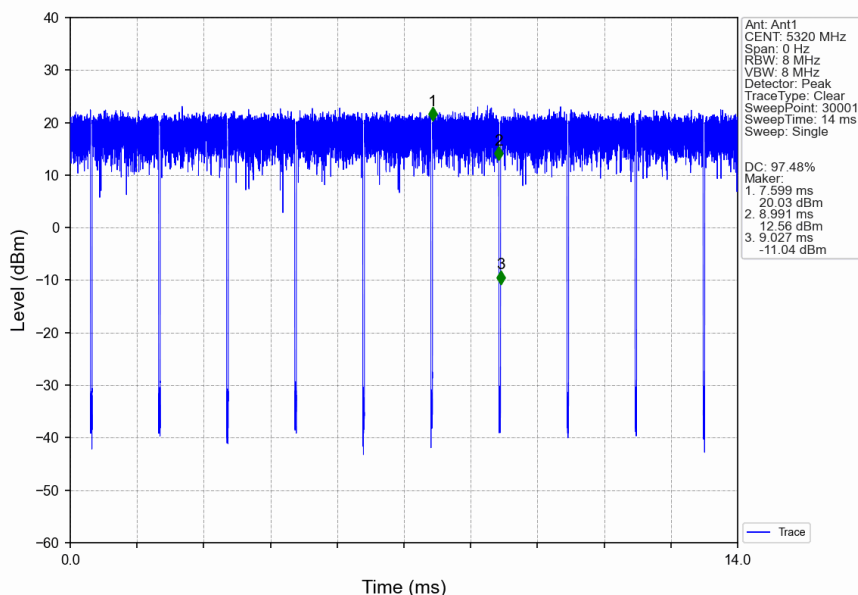
802.11a_LCH_5260MHz_Ant1_NTNV



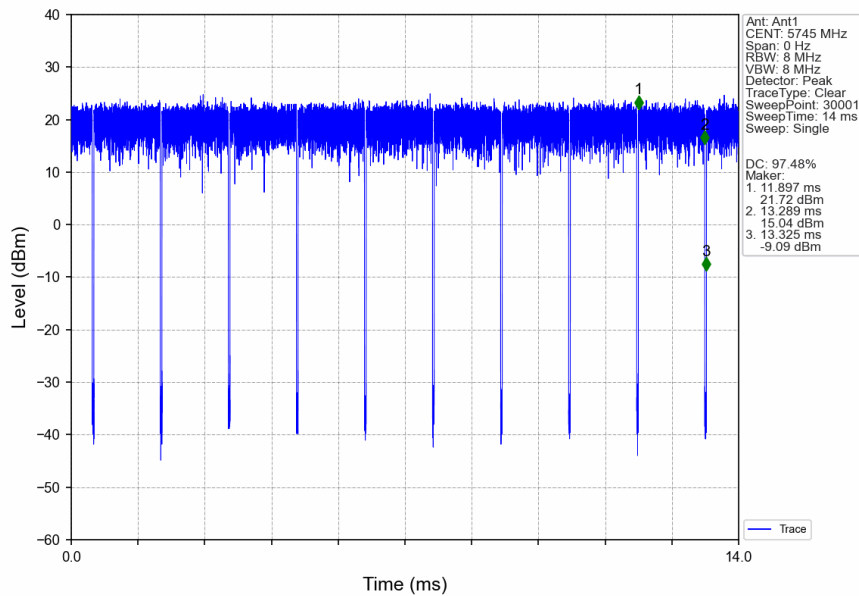
802.11a_MCH_5300MHz_Ant1_NTNV



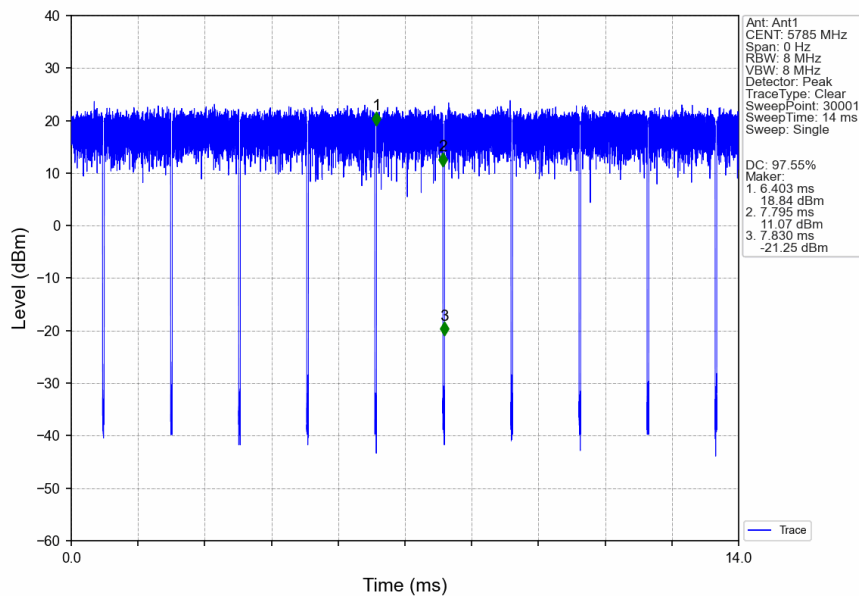
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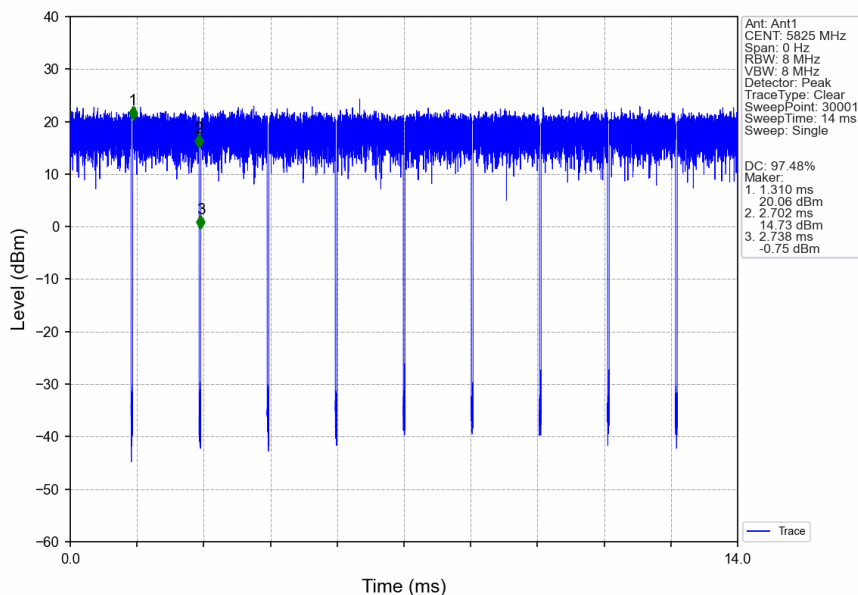
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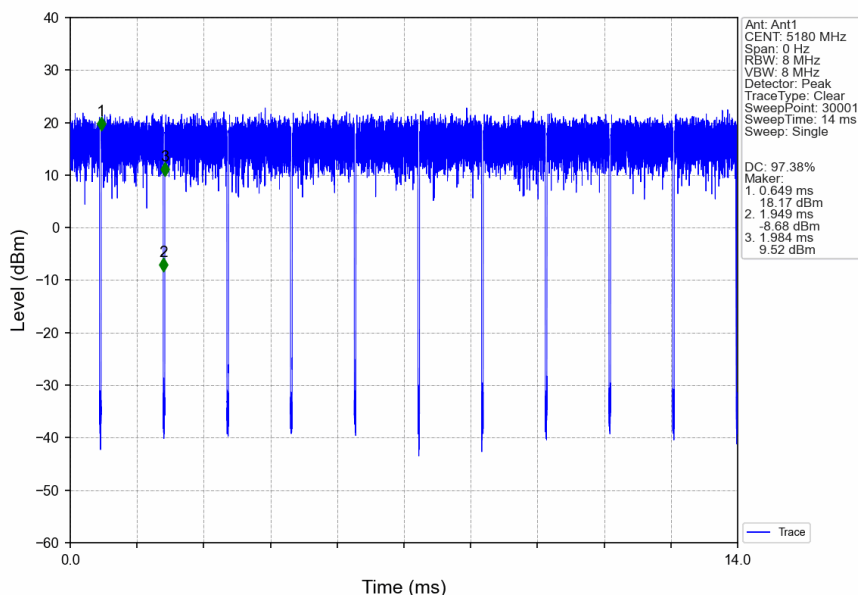
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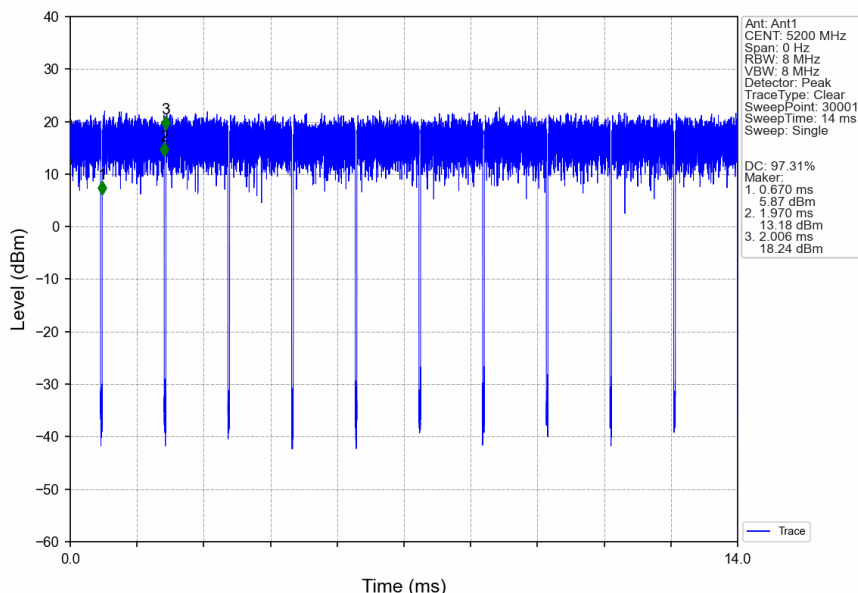
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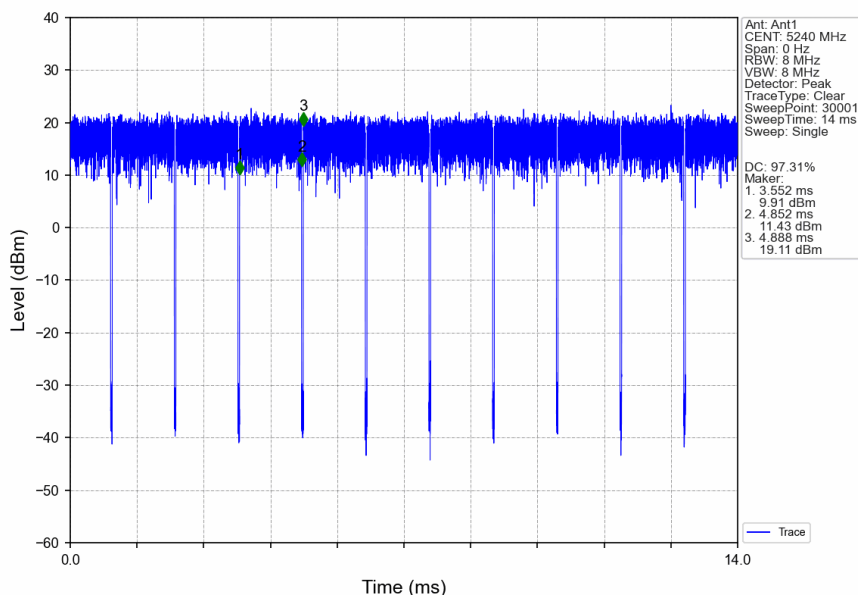
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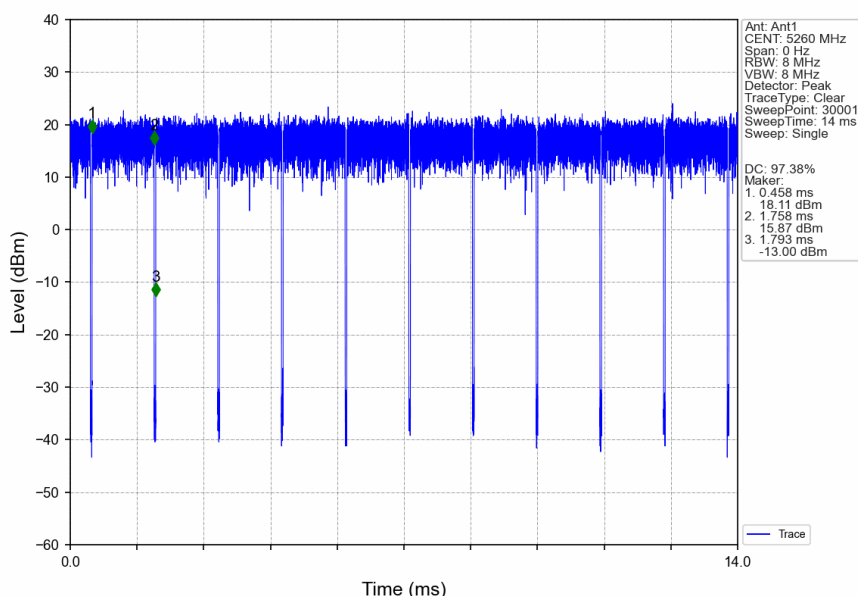
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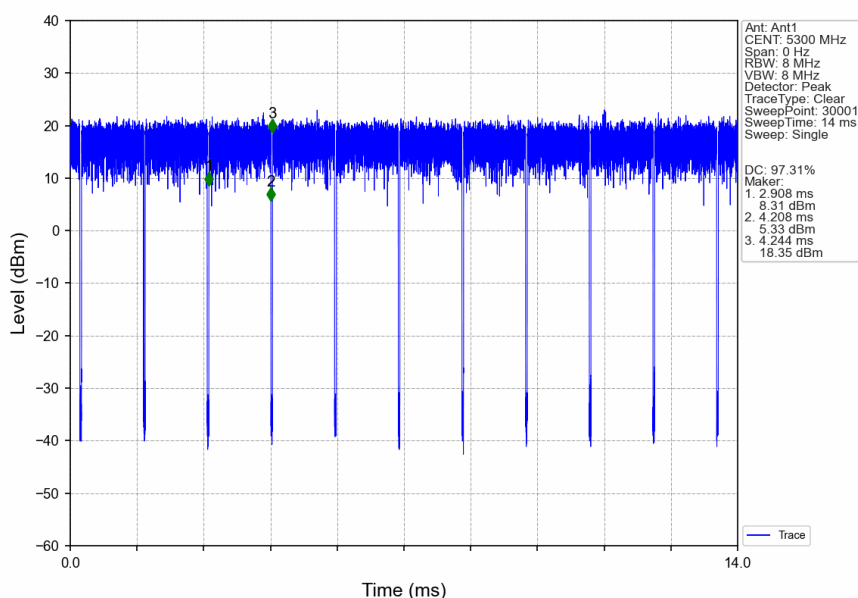
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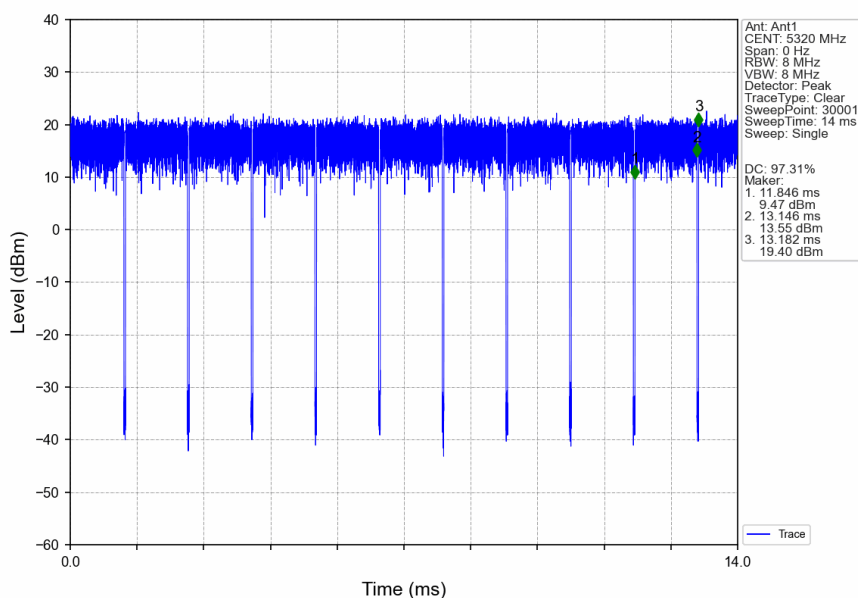
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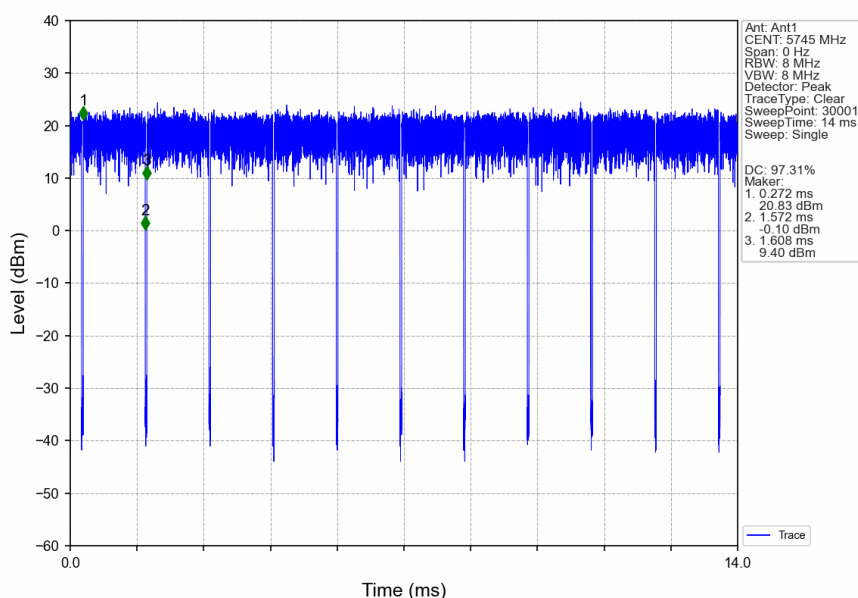
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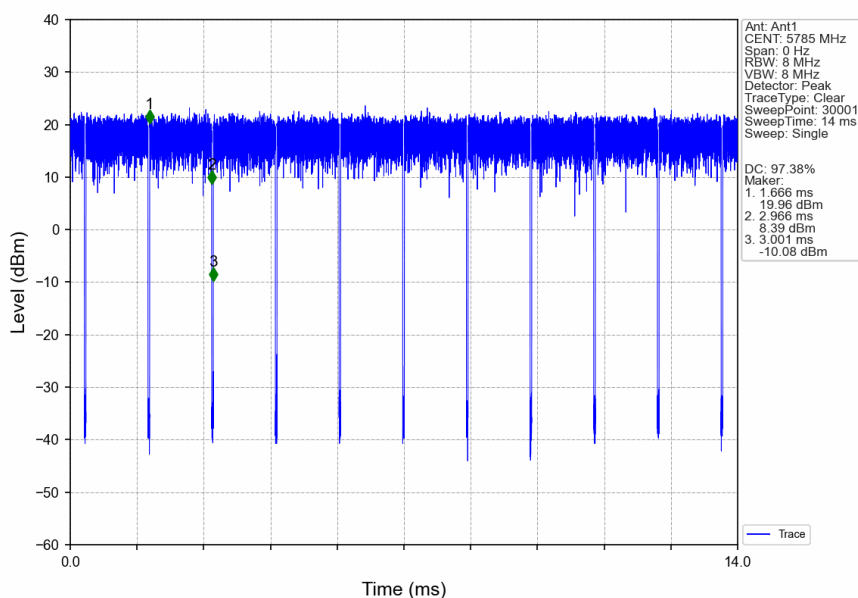
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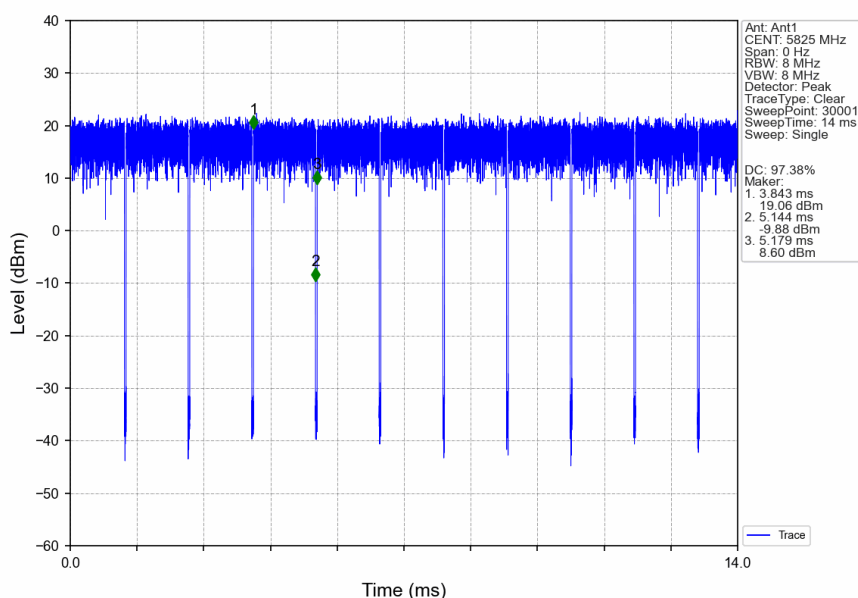
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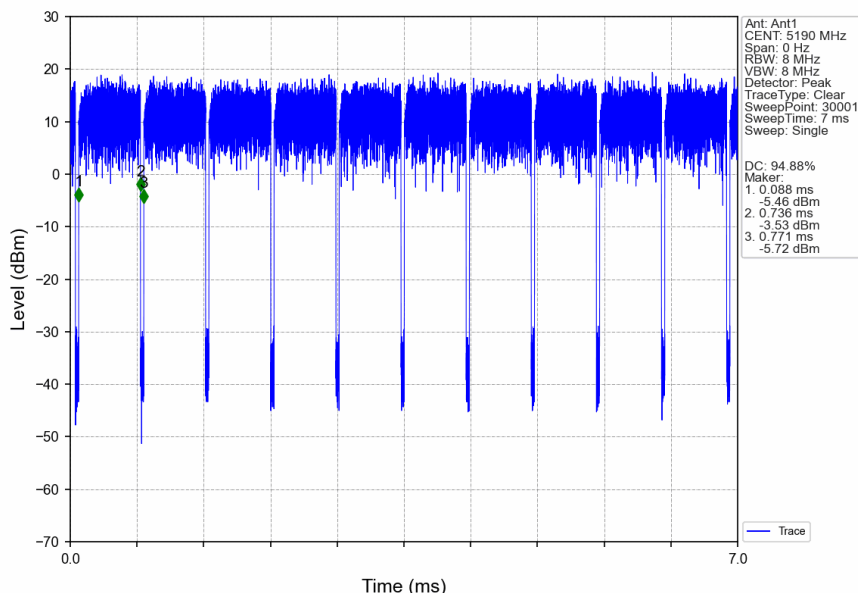
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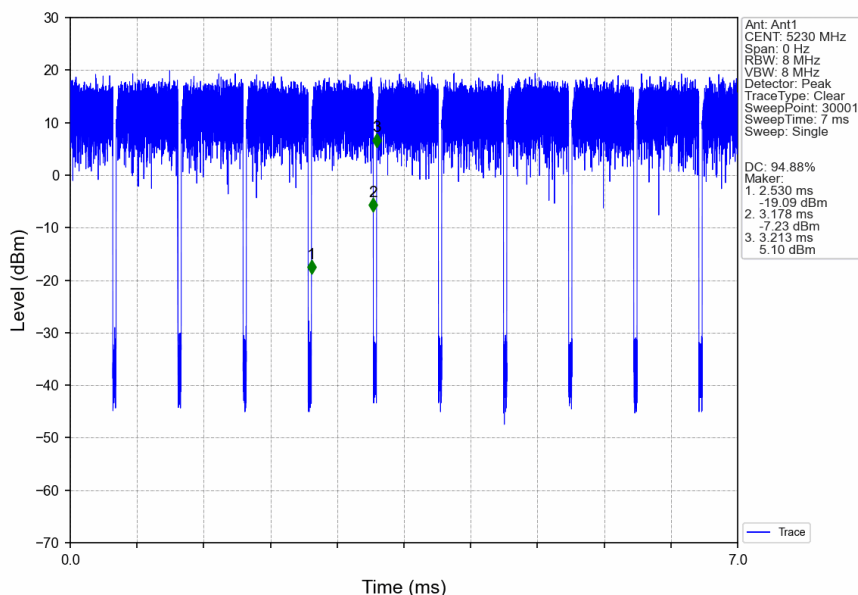
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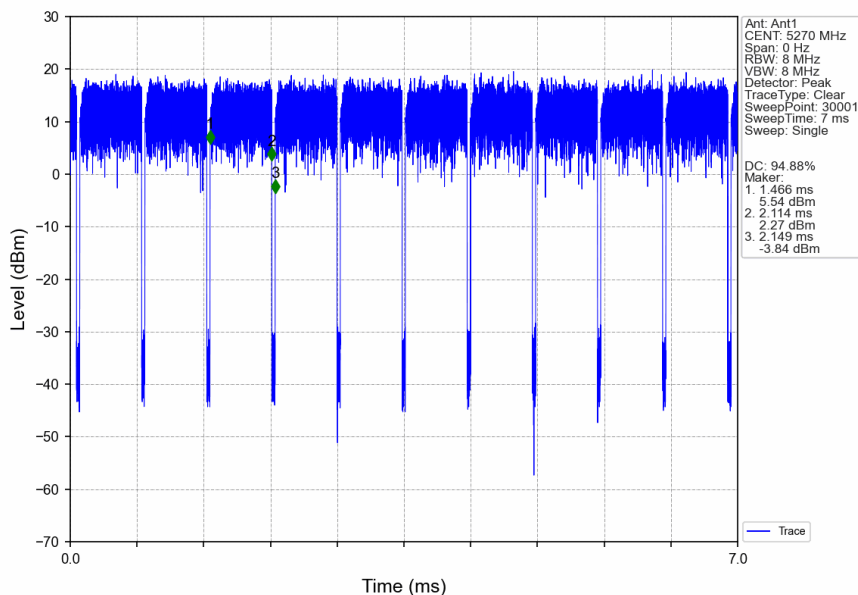
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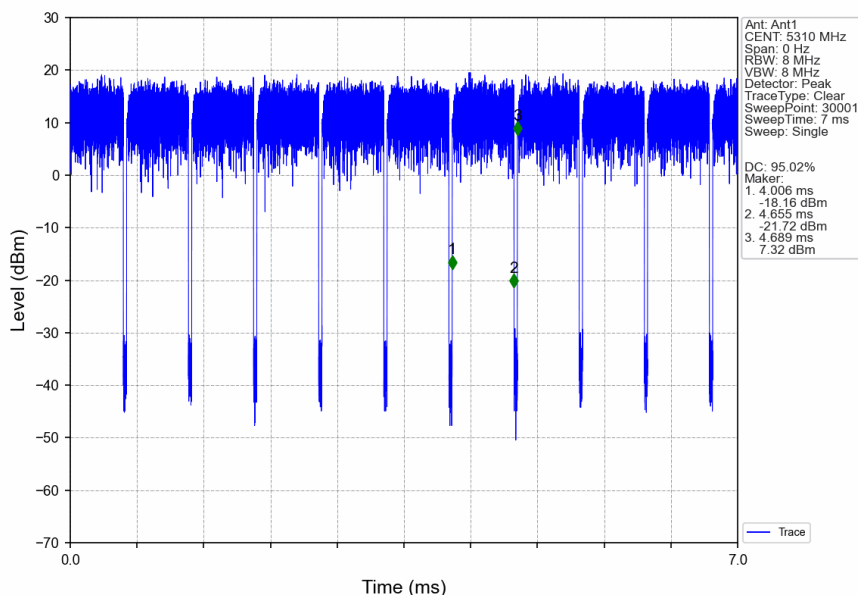
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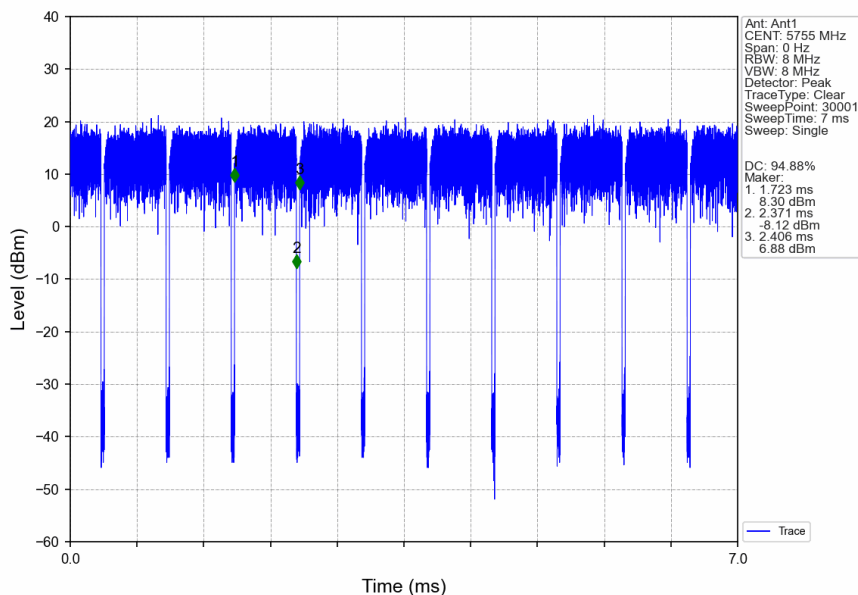
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



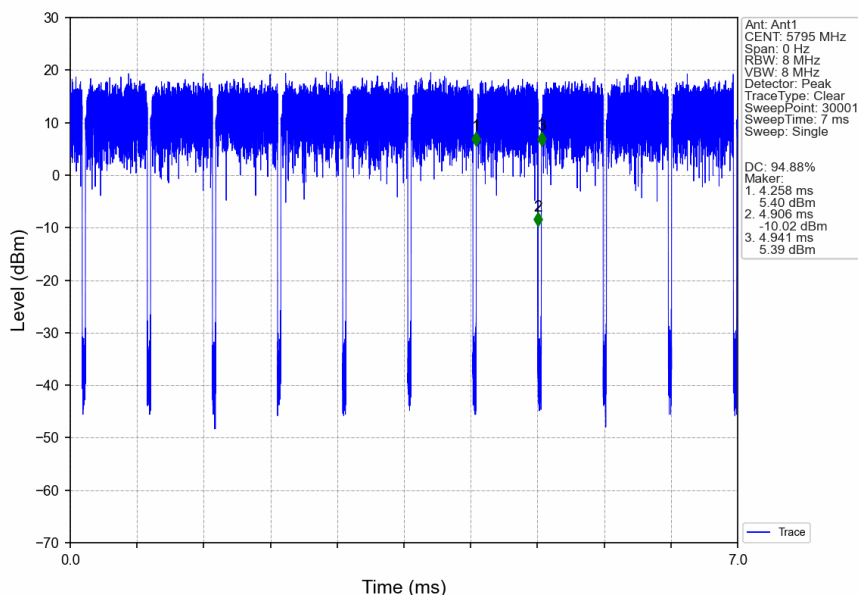
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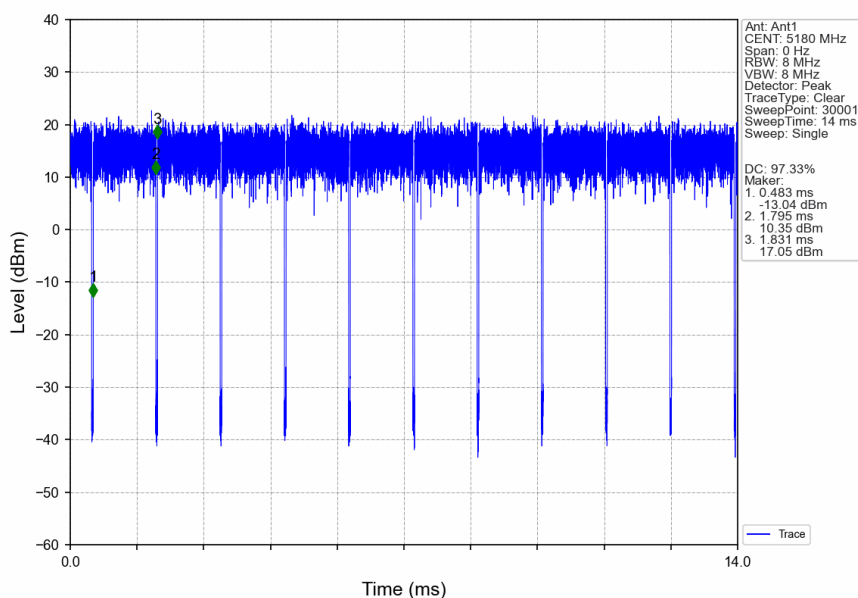
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



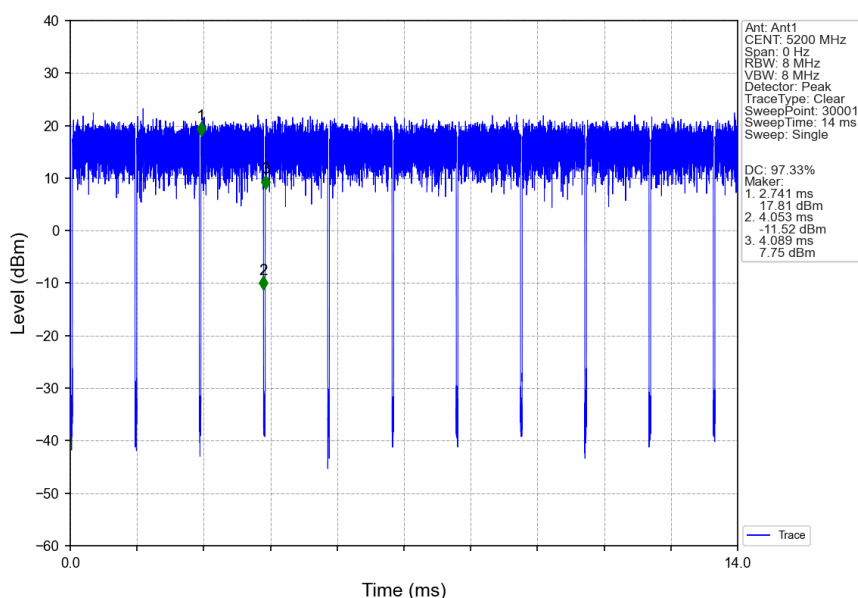
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



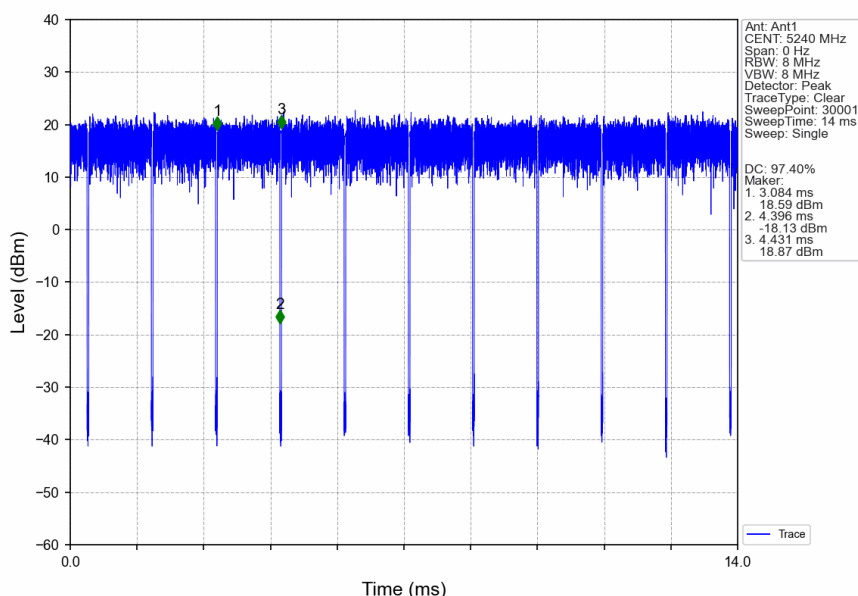
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



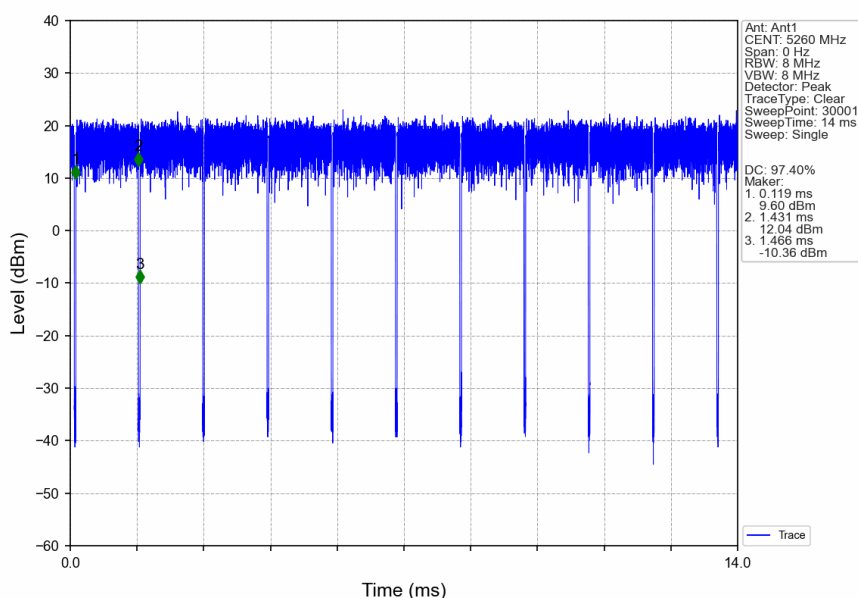
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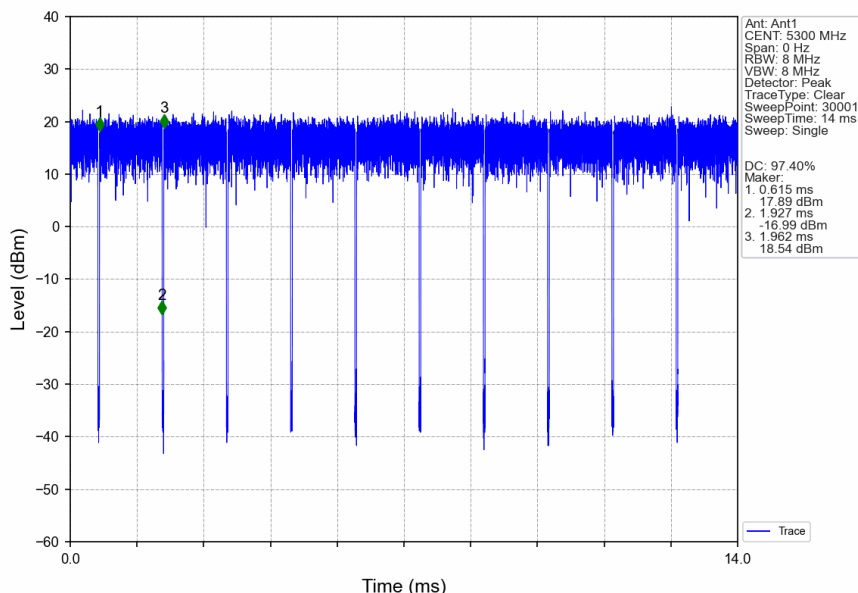
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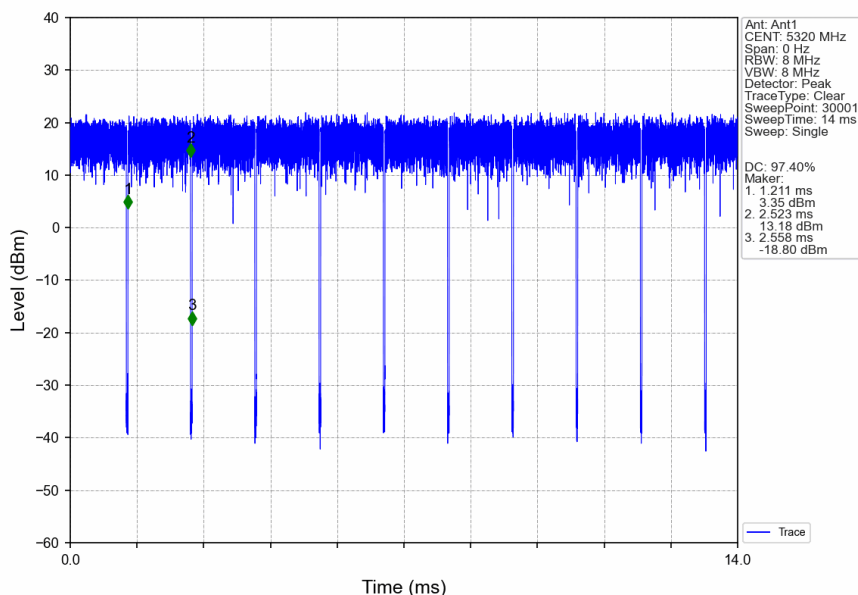
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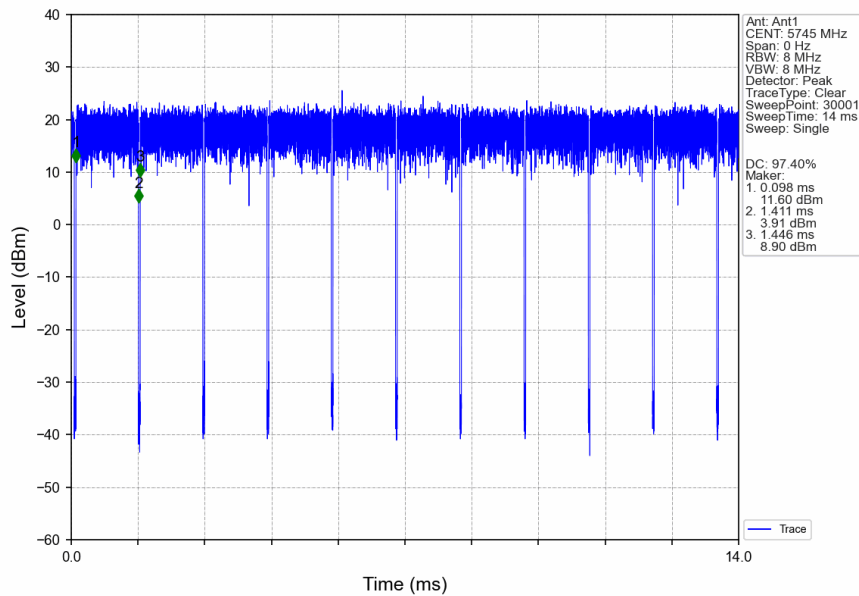
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



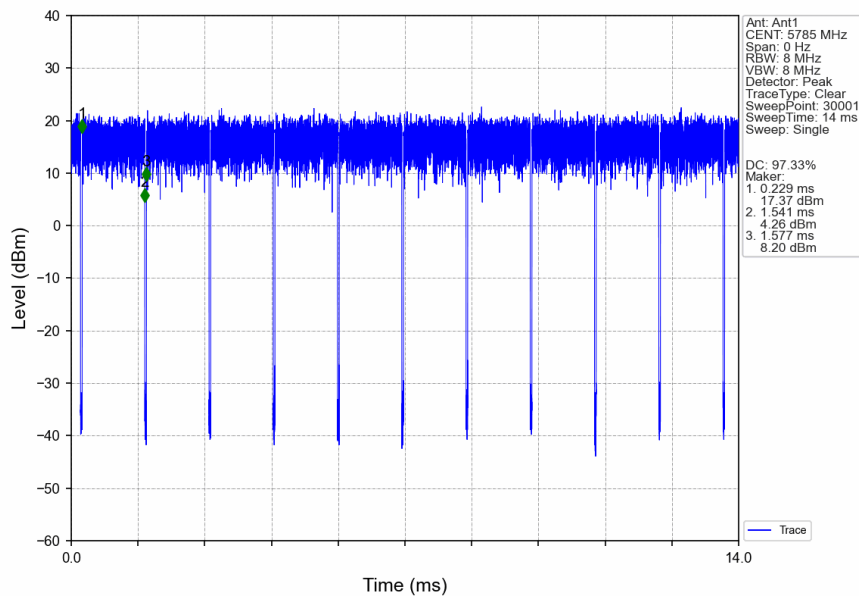
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



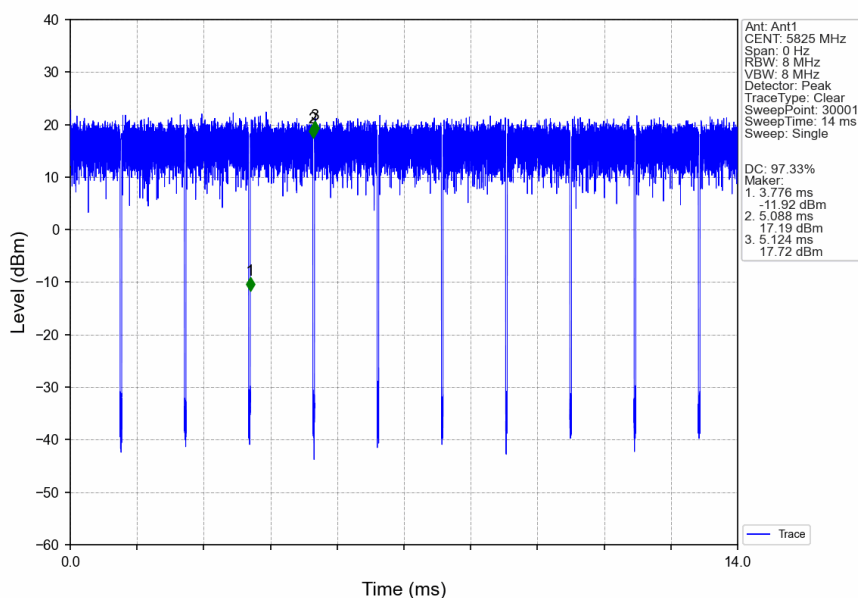
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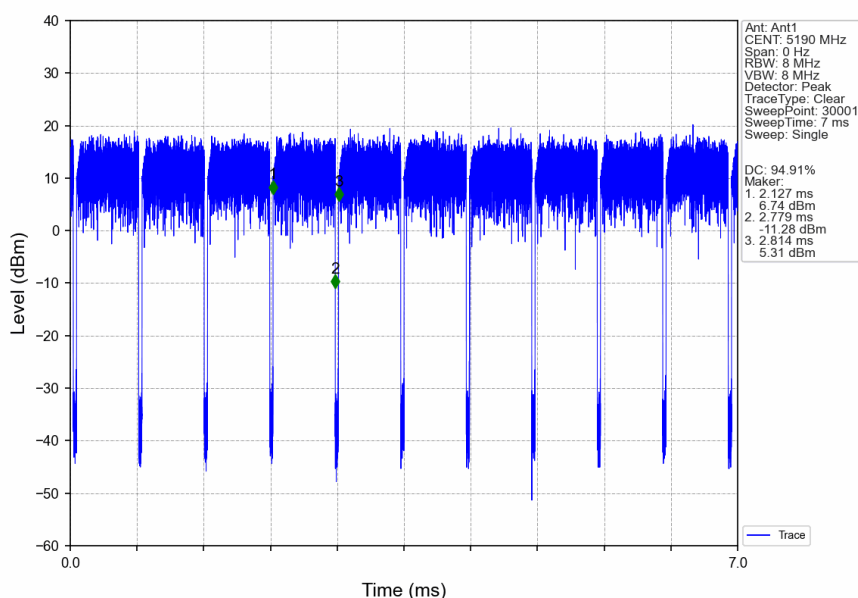
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



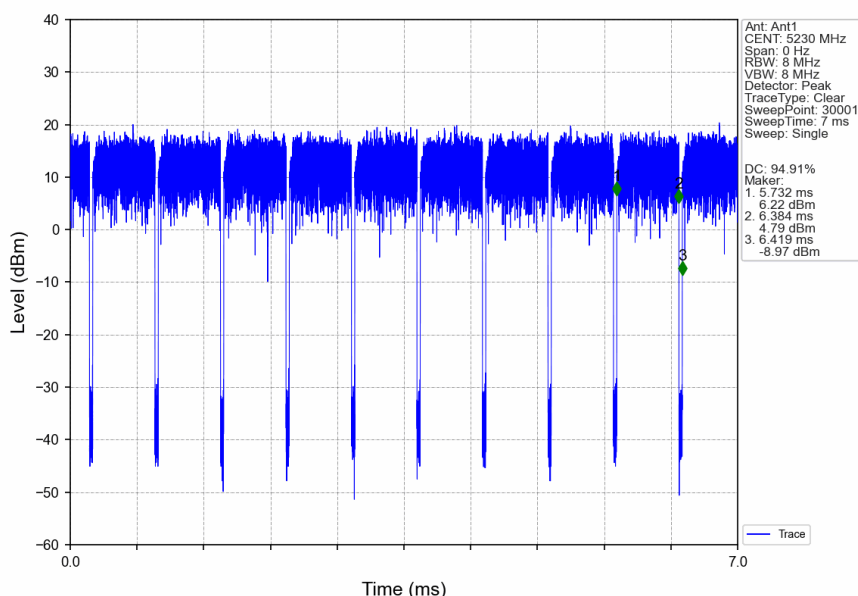
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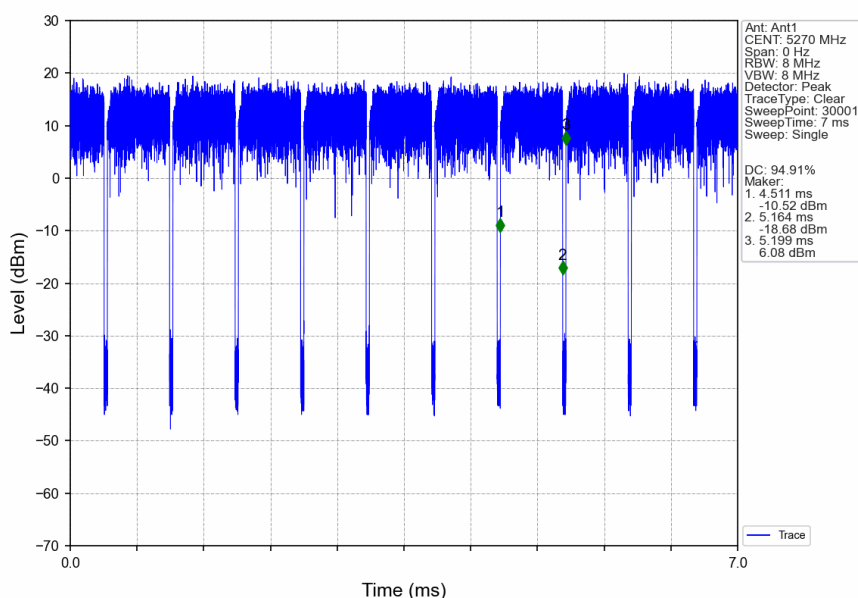
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



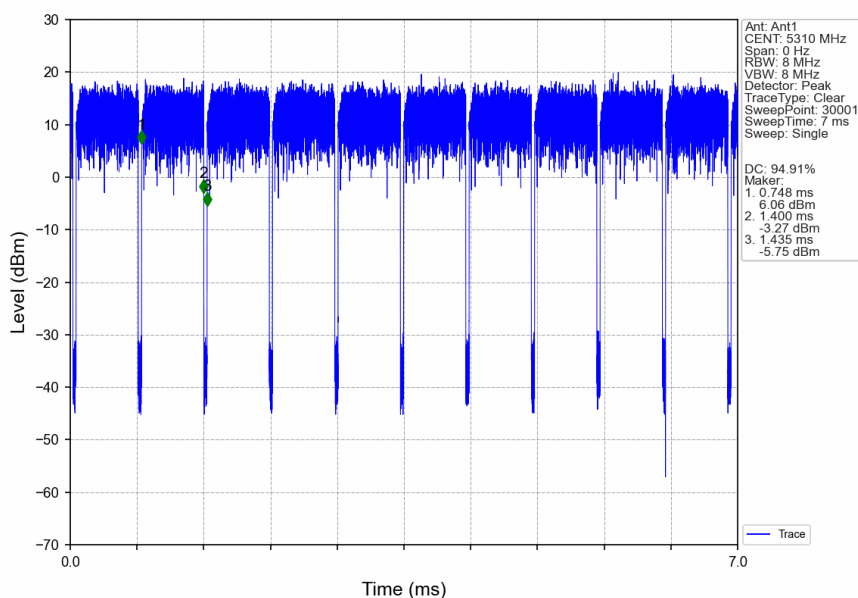
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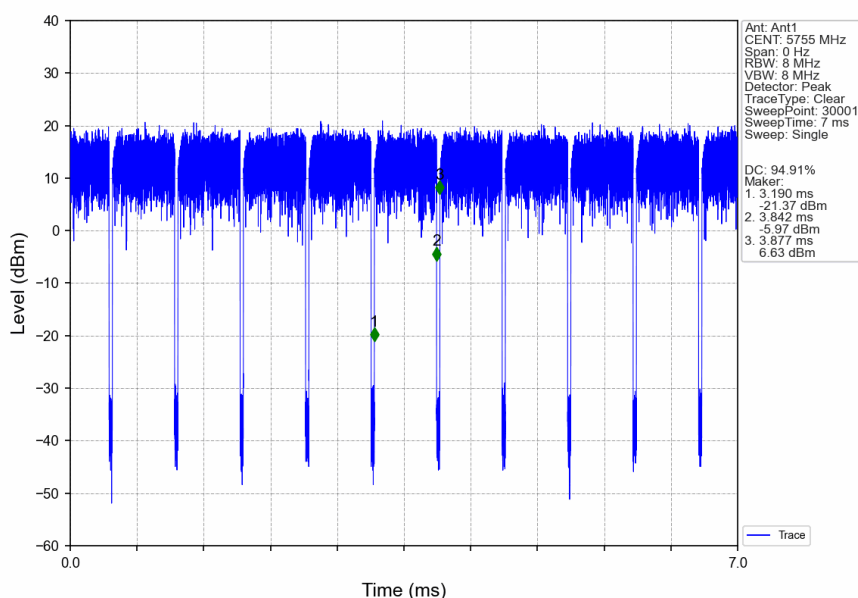
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



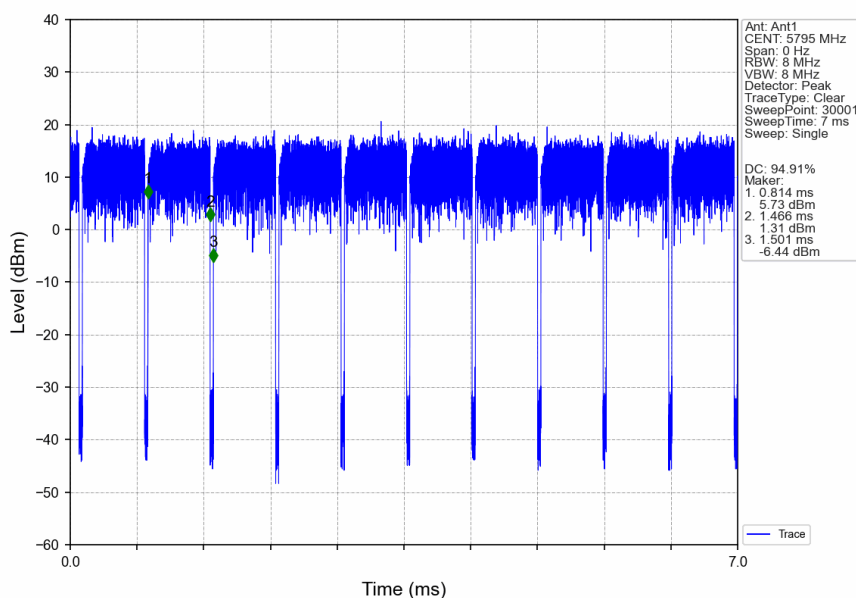
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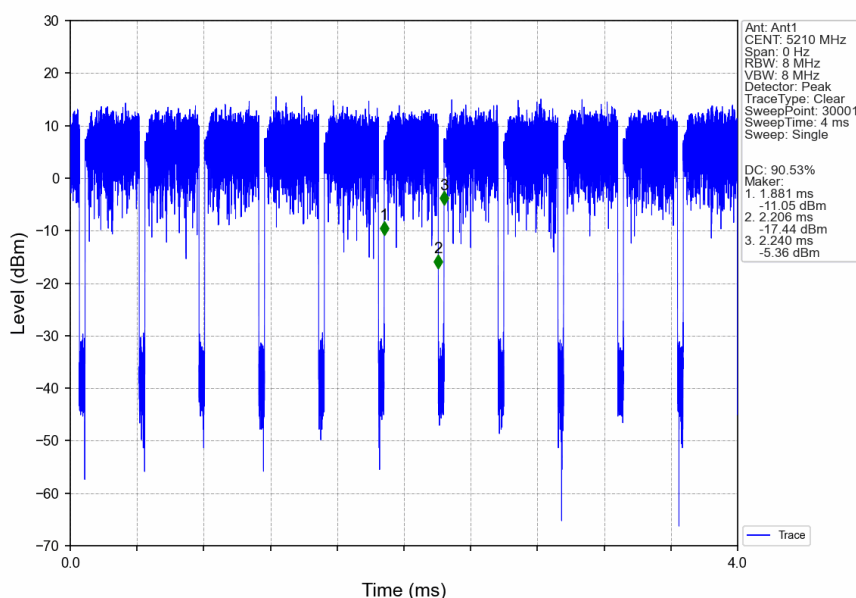
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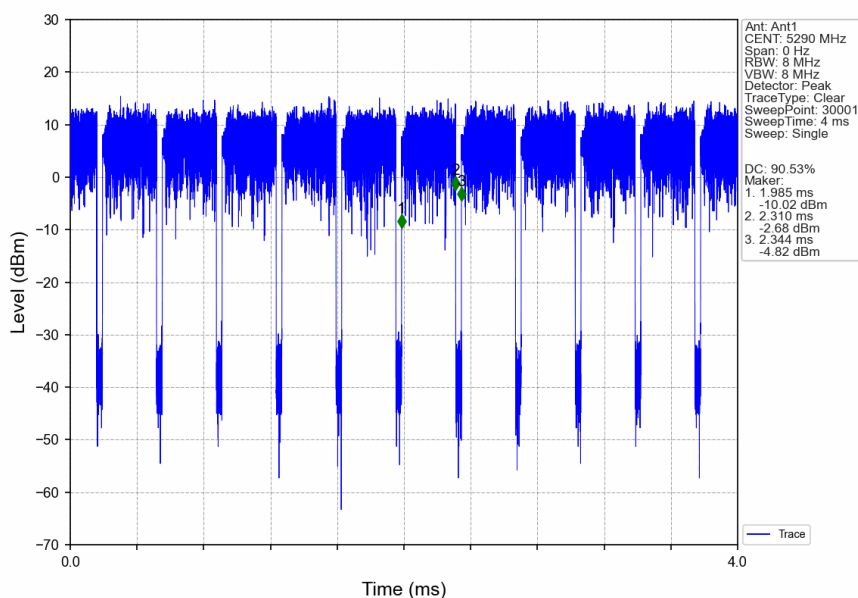
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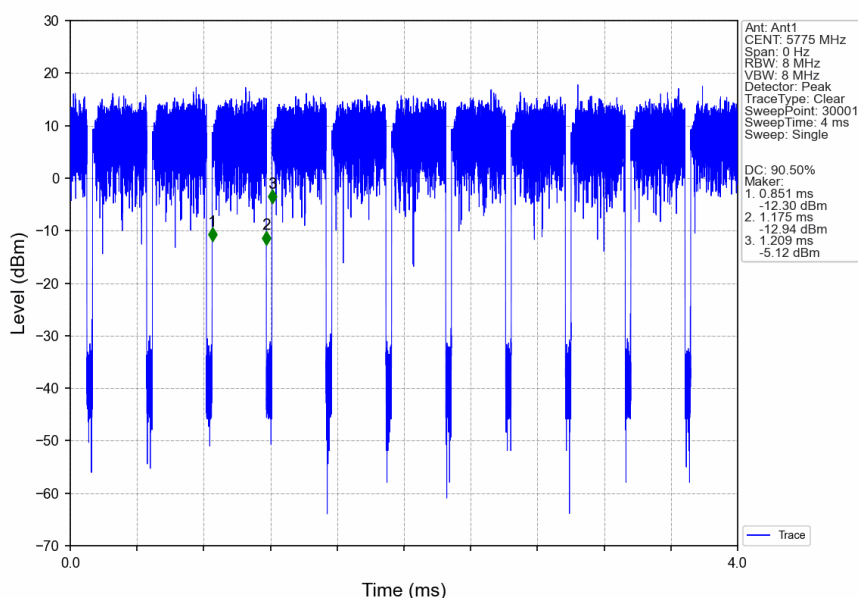
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.597	/	Pass
		5200	1	17.947	/	Pass
		5240	1	18.428	/	Pass
		5260	1	18.235	/	Pass
		5300	1	18.463	/	Pass
		5320	1	18.577	/	Pass
		5745	1	18.717	/	Pass
		5785	1	17.878	/	Pass
		5825	1	17.981	/	Pass
802.11n (HT20)	SISO	5180	1	18.217	/	Pass
		5200	1	18.383	/	Pass
		5240	1	18.447	/	Pass
		5260	1	18.395	/	Pass
		5300	1	18.523	/	Pass
		5320	1	18.624	/	Pass
		5745	1	18.590	/	Pass
		5785	1	18.651	/	Pass
		5825	1	18.449	/	Pass
802.11n (HT40)	SISO	5190	1	36.563	/	Pass
		5230	1	36.750	/	Pass
		5270	1	36.603	/	Pass
		5310	1	36.743	/	Pass
		5755	1	36.629	/	Pass
		5795	1	36.581	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.032	/	Pass
		5200	1	18.216	/	Pass
		5240	1	18.348	/	Pass
		5260	1	18.239	/	Pass
		5300	1	18.284	/	Pass
		5320	1	18.372	/	Pass
		5745	1	18.466	/	Pass



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		5785	1	18.158	/	Pass
		5825	1	18.167	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.394	/	Pass
		5230	1	36.541	/	Pass
		5270	1	36.469	/	Pass
		5310	1	36.534	/	Pass
		5755	1	36.599	/	Pass
		5795	1	36.397	/	Pass
802.11ac (VHT80)	SISO	5210	1	75.610	/	Pass
		5290	1	76.162	/	Pass
		5775	1	76.136	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	28.515	/	Pass
		5200	1	31.476	/	Pass
		5240	1	33.941	/	Pass
		5260	1	32.107	/	Pass
		5300	1	37.359	/	Pass
		5320	1	35.715	/	Pass
802.11n (HT20)	SISO	5180	1	30.163	/	Pass
		5200	1	27.988	/	Pass
		5240	1	31.793	/	Pass
		5260	1	29.483	/	Pass
		5300	1	30.798	/	Pass
		5320	1	33.588	/	Pass
802.11n (HT40)	SISO	5190	1	67.374	/	Pass
		5230	1	67.696	/	Pass
		5270	1	66.435	/	Pass
		5310	1	67.863	/	Pass
802.11ac (VHT20)	SISO	5180	1	26.470	/	Pass
		5200	1	24.490	/	Pass
		5240	1	25.464	/	Pass
		5260	1	31.785	/	Pass
		5300	1	25.933	/	Pass
		5320	1	29.340	/	Pass
802.11ac (VHT40)	SISO	5190	1	45.040	/	Pass
		5230	1	55.837	/	Pass



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		5270	1	52.083	/	Pass
		5310	1	66.071	/	Pass
802.11ac (VHT80)	SISO	5210	1	92.158	/	Pass
		5290	1	97.073	/	Pass

2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	13.883	≥ 0.5	Pass
		5785	1	15.044	≥ 0.5	Pass
		5825	1	14.487	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	13.898	≥ 0.5	Pass
		5785	1	14.254	≥ 0.5	Pass
		5825	1	15.133	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.139	≥ 0.5	Pass
		5795	1	35.152	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.151	≥ 0.5	Pass
		5785	1	15.372	≥ 0.5	Pass
		5825	1	15.150	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.102	≥ 0.5	Pass
		5795	1	35.167	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.127	≥ 0.5	Pass



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Shenzhen Branch (SZEMC) Laboratory

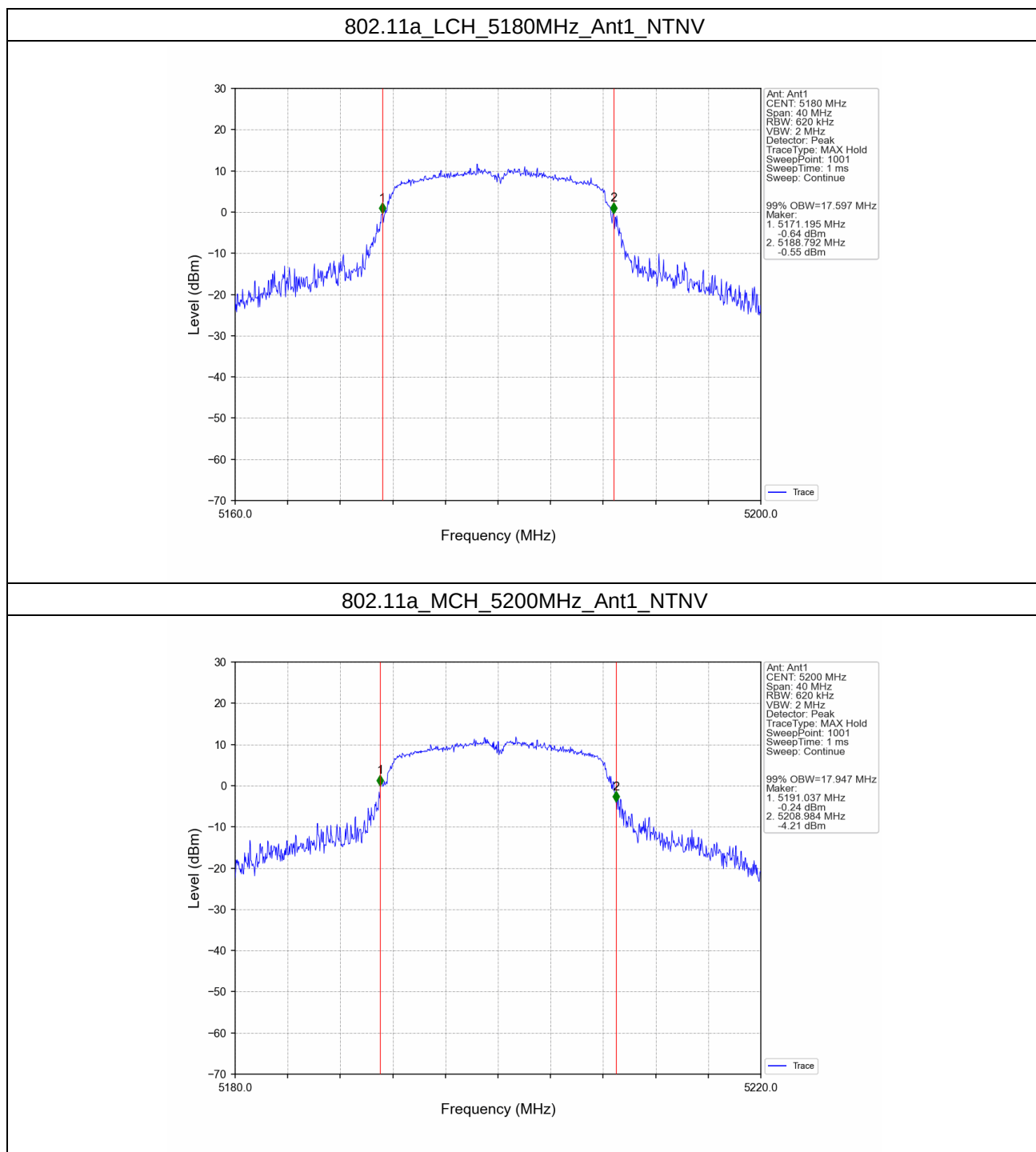
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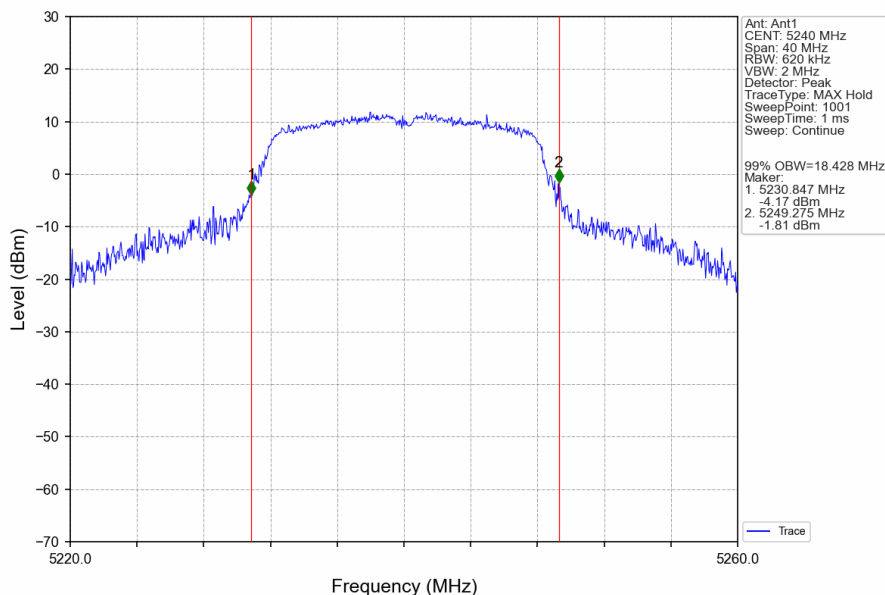
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2.2 Test Graph

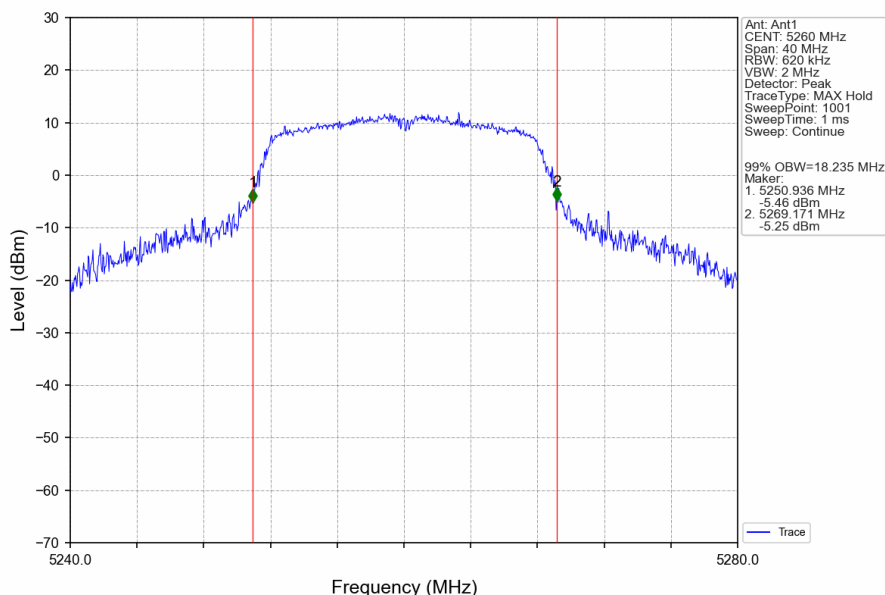
2.2.1 OBW



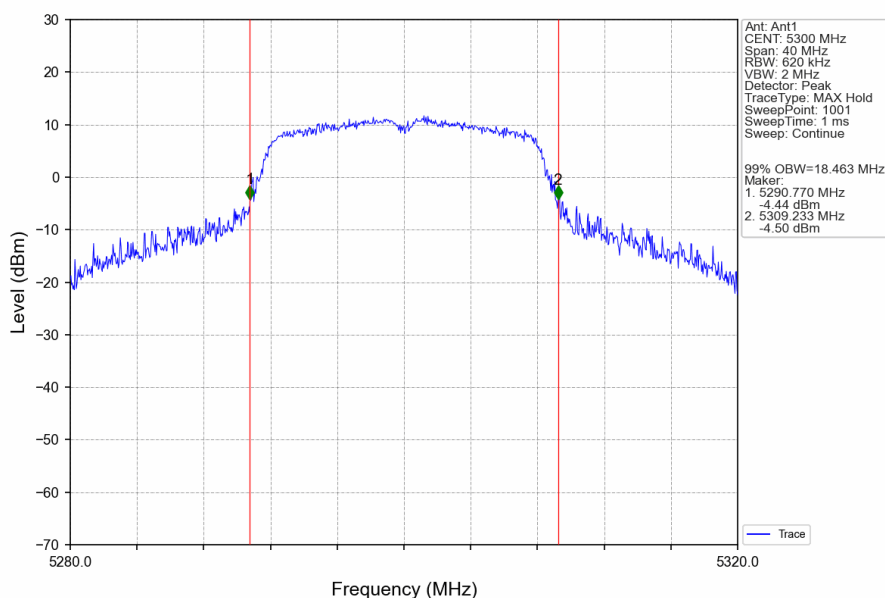
802.11a_HCH_5240MHz_Ant1_NTNV



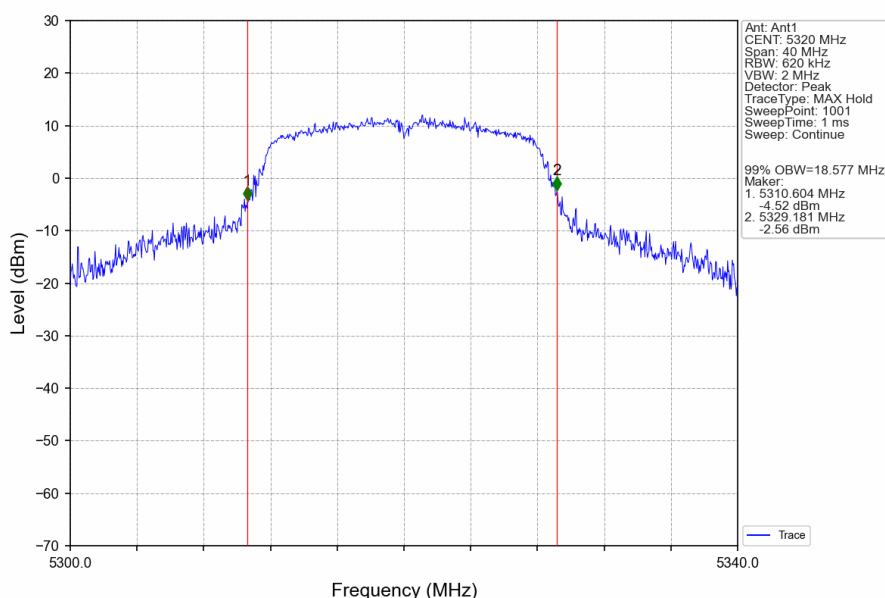
802.11a_LCH_5260MHz_Ant1_NTNV



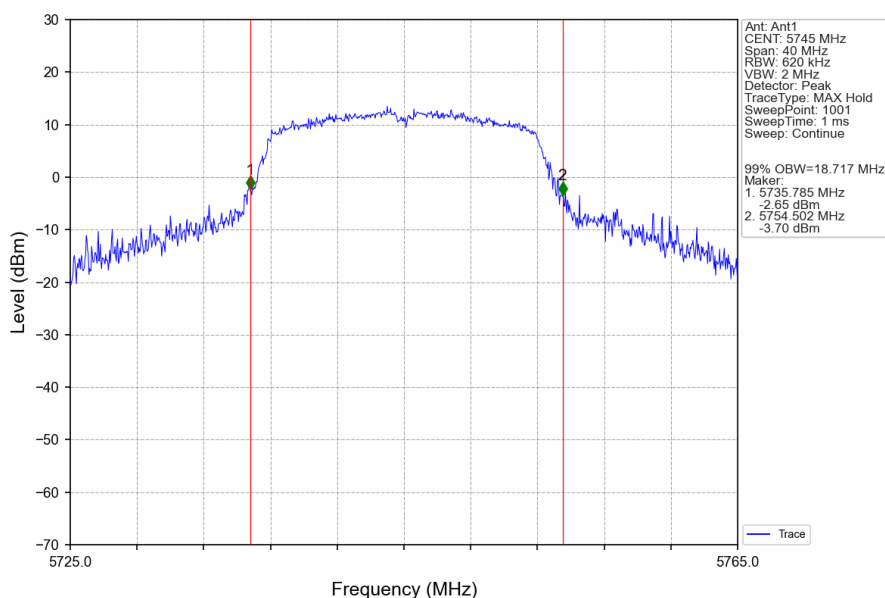
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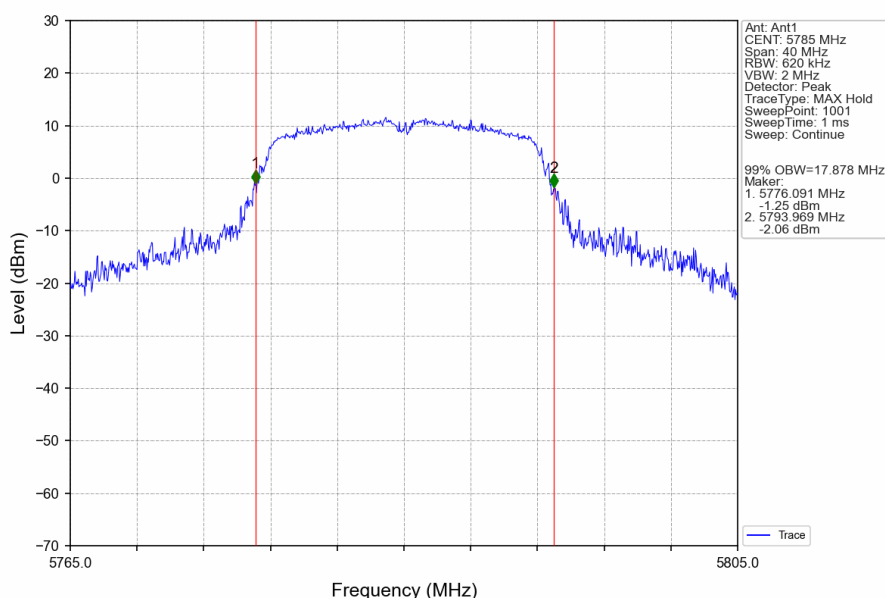
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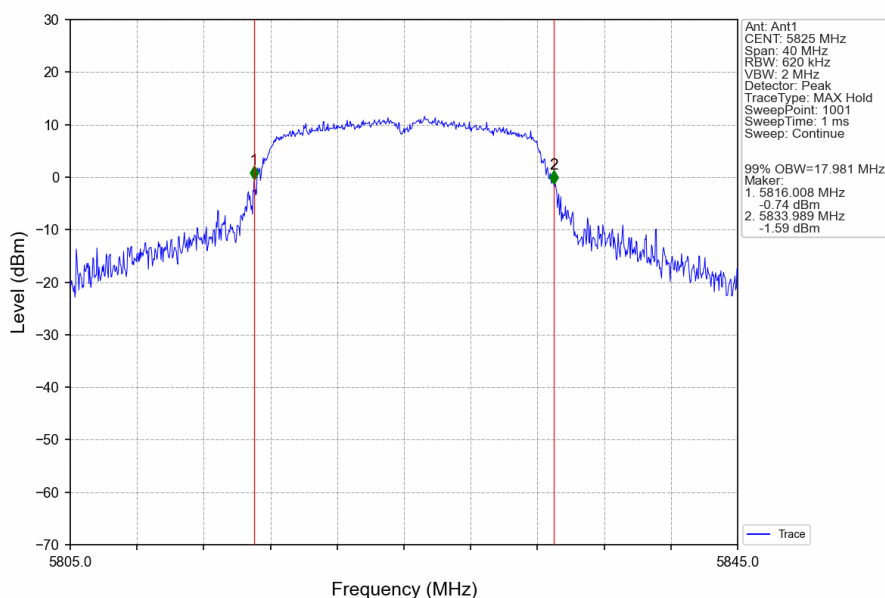
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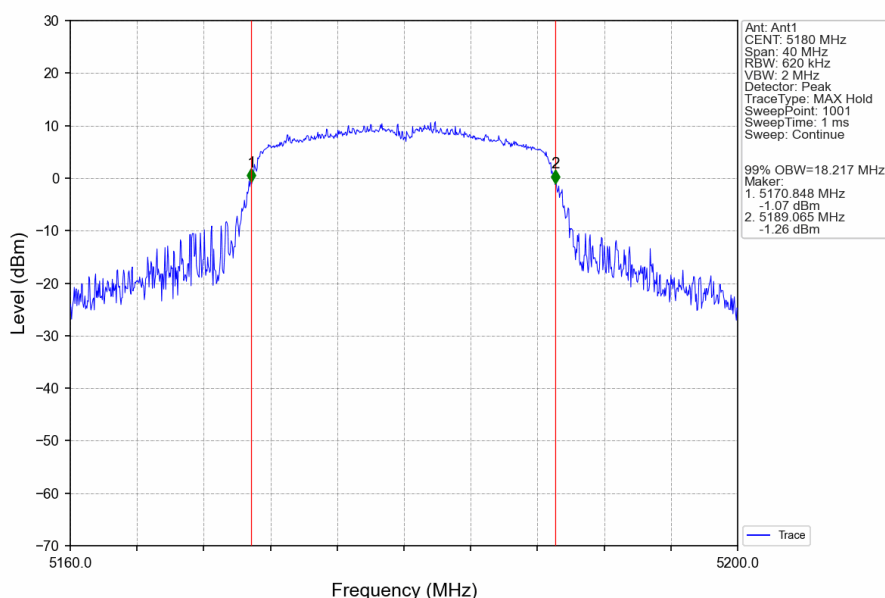
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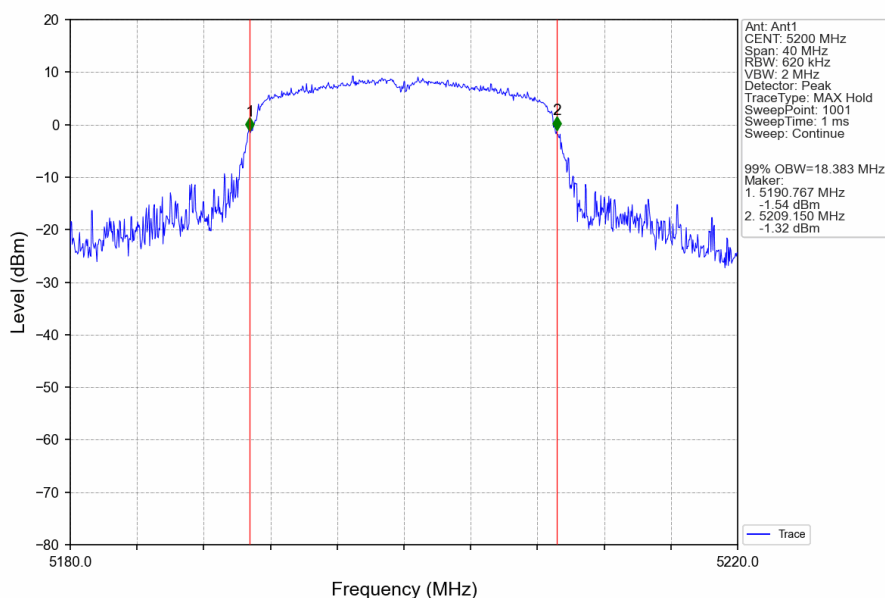
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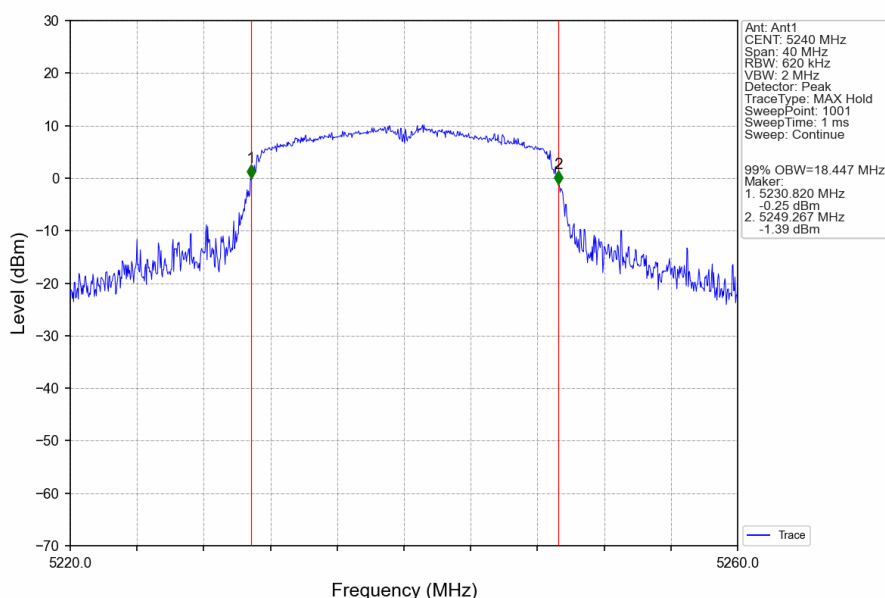
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



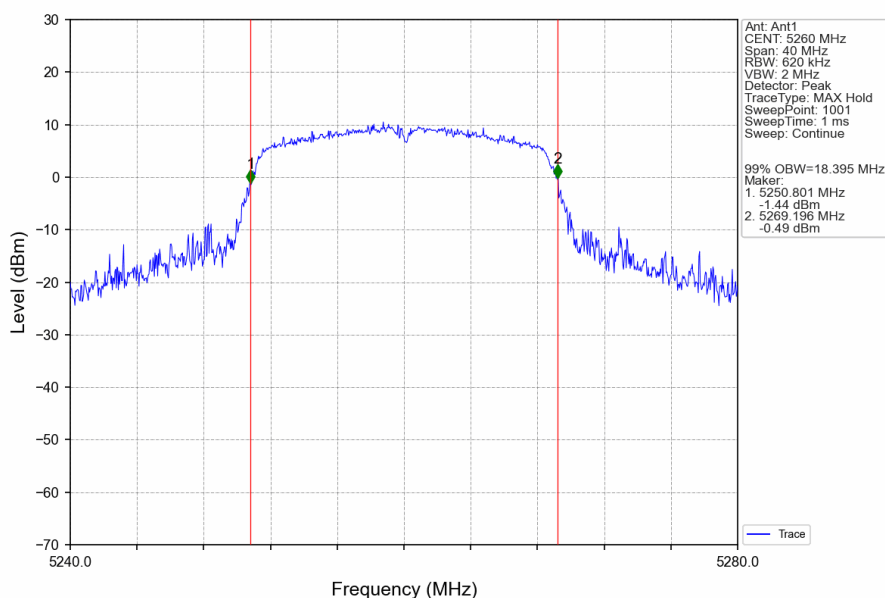
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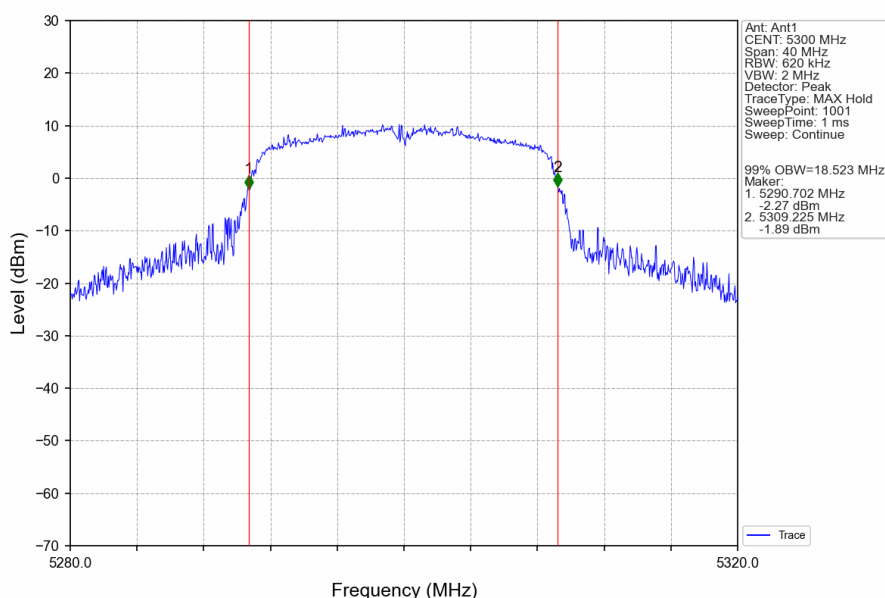
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



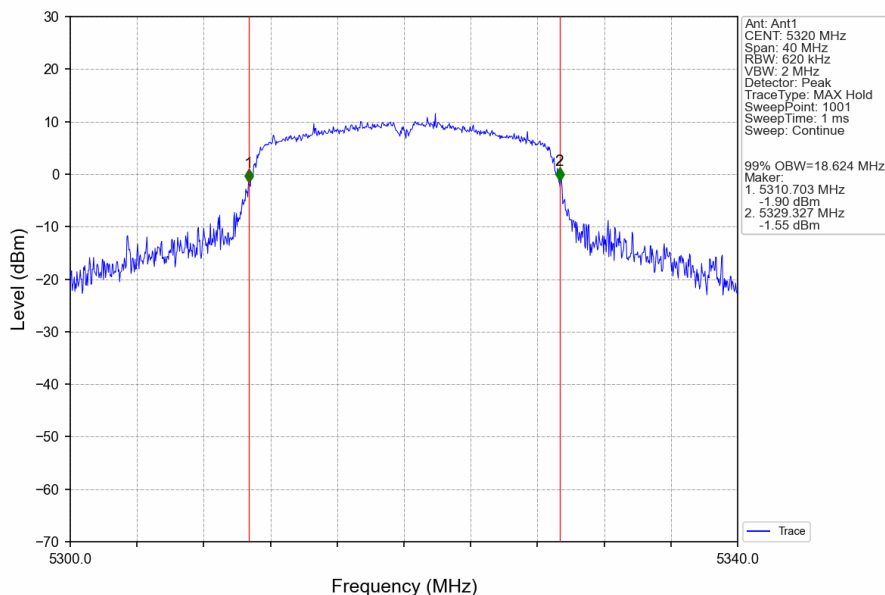
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



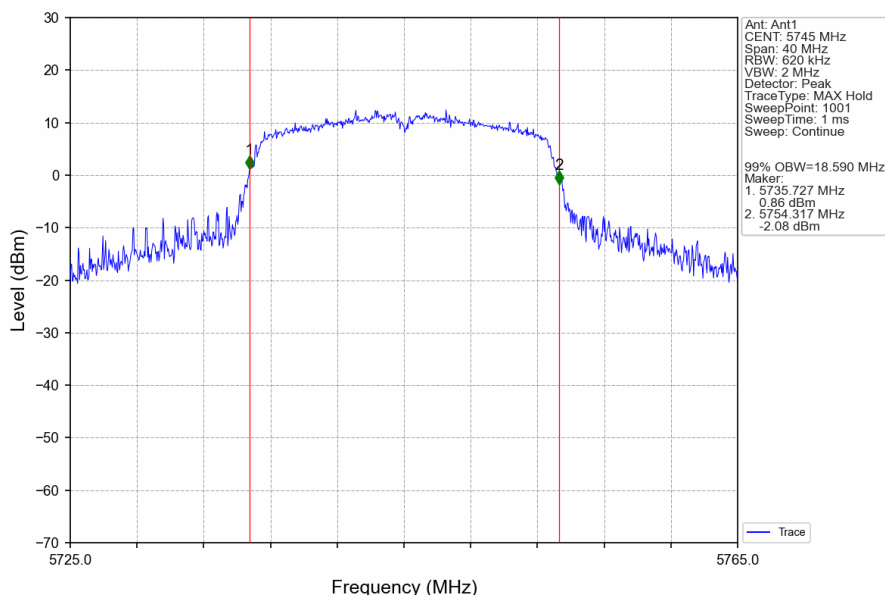
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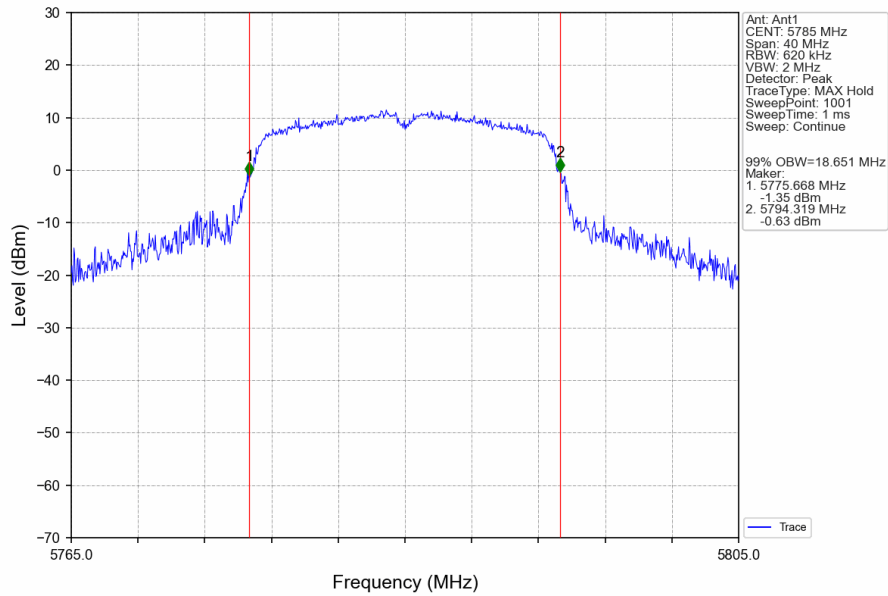
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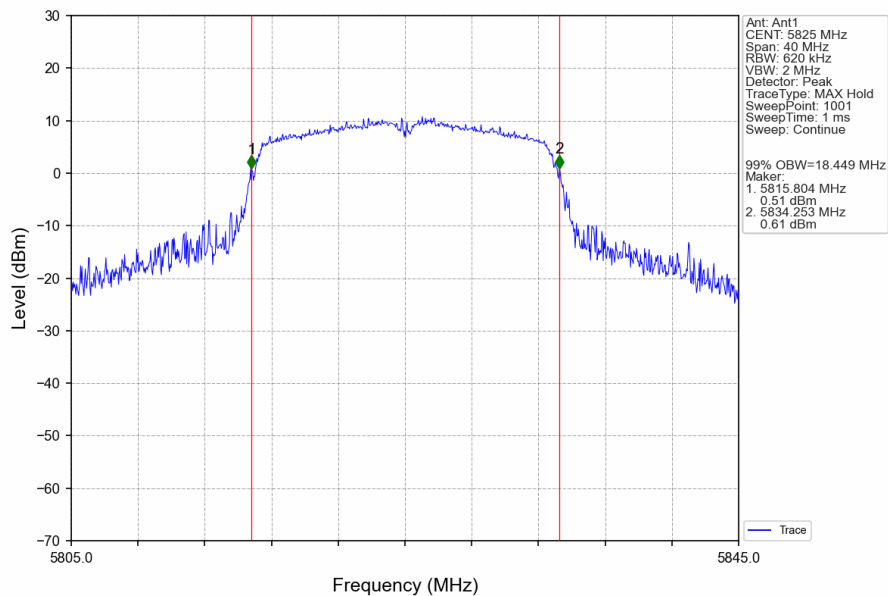
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



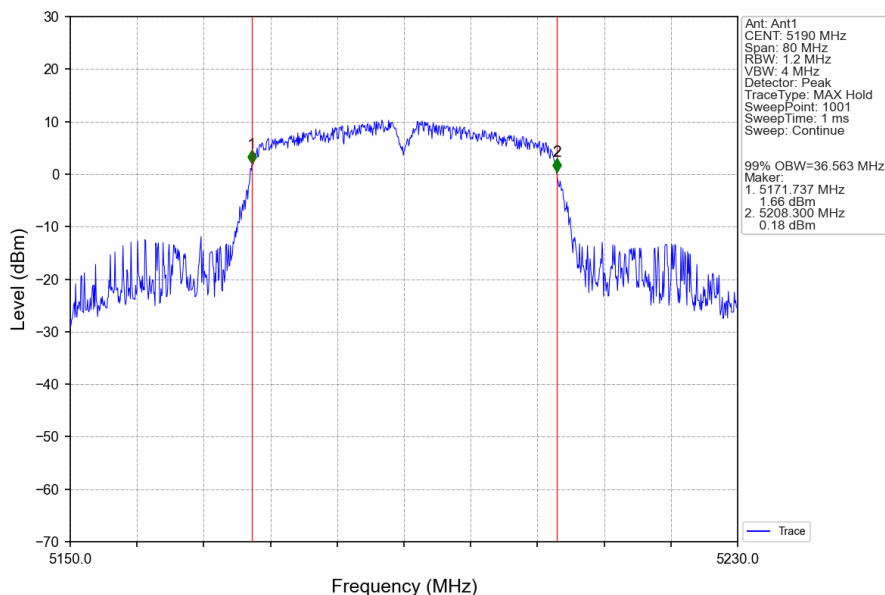
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

