

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

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900303004

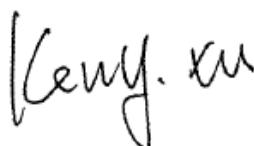
Page: 1 of 127

TEST REPORT

Application No.: SZCR2309003030AT
Applicant: COGITO TECH COMPANY LIMITED
Address of Applicant: 21/F Tai Yau Building, 181 Johnston Road, Wanchai, Hong Kong
Manufacturer: COGITO TECH COMPANY LIMITED
Address of Manufacturer: 21/F Tai Yau Building, 181 Johnston Road, Wanchai, Hong Kong
Equipment Under Test (EUT):
EUT Name: SPECTA
Model No.: TQFDUB2
Trade Mark: SPECTA
FCC ID: 2BCHV-TQFDUB2
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2023-09-18
Date of Test: 2023-09-26 to 2023-10-16
Date of Issue: 2023-10-18

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



Keny Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-10-18		Original

Authorized for issue by:			
		<i>Darren Yuan</i>	
		Darren Yuan/Project Engineer	
		<i>Eric Fu</i>	
		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 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

Remark: KDB 789033 D02 is not accredited by A2LA

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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium-ion Polymer rechargeable battery Battery information Model: BSPE-4241-4S Nominal Voltage: 14.76V Rated Capacity: 4241mAh, 62.6Wh
Cable:	USB Type-C to Type-C cable: 50cm unshielded USB Type-A to Type-C cable: 50cm unshielded
Operation Frequency (20MHz):	5745MHz-5825MHz
Operation Frequency (40MHz):	5755MHz-5795MHz
Operation Frequency (80MHz):	5775MHz
Channel number:	20MHz bandwidth: 5 40MHz bandwidth: 2 80MHz bandwidth: 1
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz
Antenna Type:	PCB Antenna
Antenna Gain:	3dBi

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.
Adapter	ZMI	HA726	N/A

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Frequency Stability	± 7.25 x 10 ⁻⁸

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 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**

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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	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Matching Pad	N/A	N/A	SEM021-23	2023-03-22	2024-03-21
Matching Pad	N/A	N/A	SEM021-24	2023-03-22	2024-03-21
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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26dB Emission bandwidth

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Maximum Conducted output power

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

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Peak Power spectrum density						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30	
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20	

Radiated Emissions (Below 1GHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06	

Radiated Emissions (Above 1GHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	



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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	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22

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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 3dBi.

Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 FR 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:

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



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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 (2013) Section 6.2

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 47.3 % RH

Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

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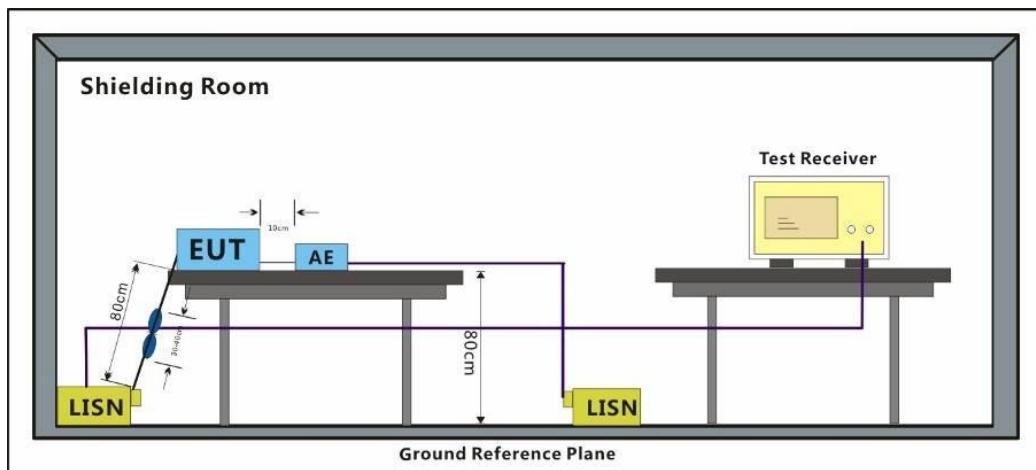
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7.1.3 Test Setup Diagram



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

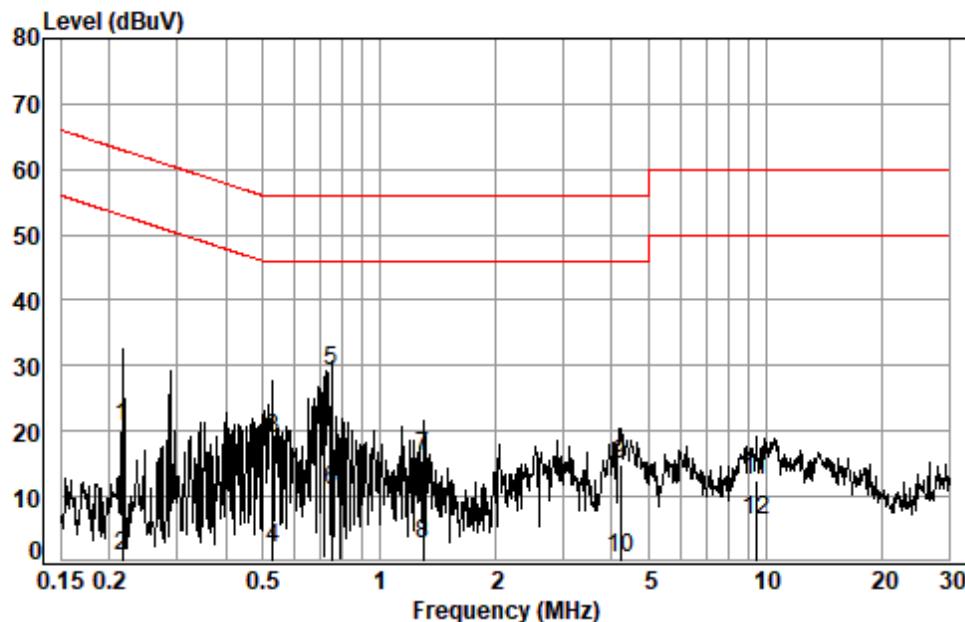
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 07; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 03030AT

Test mode: 07

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor				
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.2162	0.03	9.62	11.05	20.70	62.96	-42.26 QP
2	0.2162	0.03	9.62	-8.86	0.79	52.96	-52.17 Average
3	0.5293	0.04	9.62	9.13	18.79	56.00	-37.21 QP
4	0.5293	0.04	9.62	-7.65	2.01	46.00	-43.99 Average
5 *	0.7549	0.05	9.62	19.61	29.28	56.00	-26.72 QP
6 *	0.7549	0.05	9.62	1.25	10.92	46.00	-35.08 Average
7	1.3029	0.06	9.63	6.31	16.00	56.00	-40.00 QP
8	1.3029	0.06	9.63	-7.05	2.64	46.00	-43.36 Average
9	4.2242	0.08	9.66	5.11	14.85	56.00	-41.15 QP
10	4.2242	0.08	9.66	-9.01	0.73	46.00	-45.27 Average
11	9.4514	0.16	9.74	2.58	12.48	60.00	-47.52 QP
12	9.4514	0.16	9.74	-3.41	6.49	50.00	-43.51 Average

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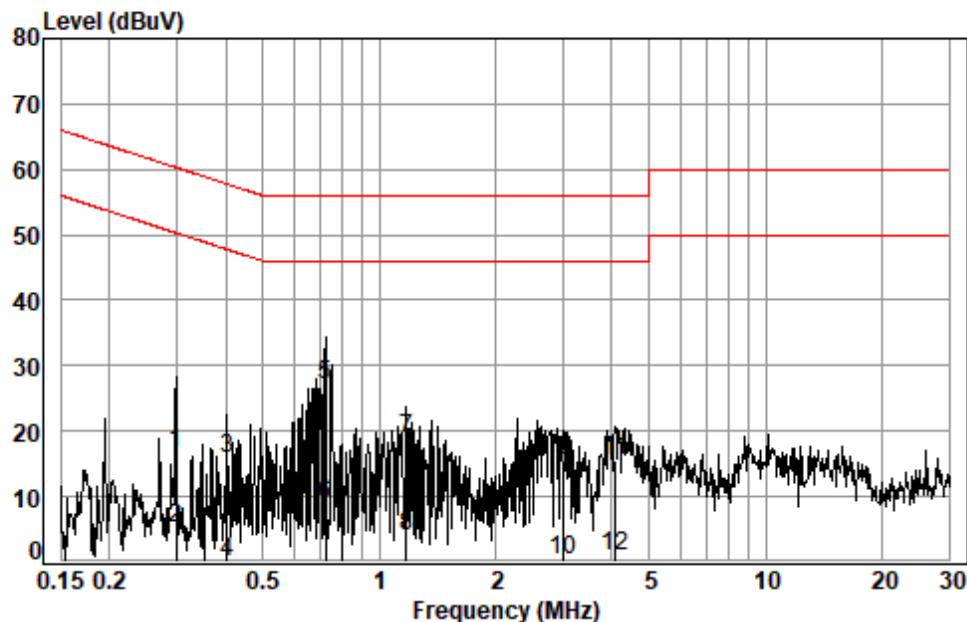
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Test Mode: 07; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03030AT

Test mode: 07

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor				
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.2987	0.03	9.62	7.05	16.70	60.28	-43.58 QP
2	0.2987	0.03	9.62	-4.47	5.18	50.28	-45.10 Average
3	0.4040	0.03	9.62	6.21	15.86	57.77	-41.91 QP
4	0.4040	0.03	9.62	-9.61	0.04	47.77	-47.73 Average
5 *	0.7274	0.05	9.62	17.51	27.18	56.00	-28.82 QP
6 *	0.7274	0.05	9.62	-0.76	8.91	46.00	-37.09 Average
7	1.1719	0.06	9.63	9.14	18.83	56.00	-37.17 QP
8	1.1719	0.06	9.63	-5.84	3.85	46.00	-42.15 Average
9	2.9776	0.07	9.65	5.72	15.44	56.00	-40.56 QP
10	2.9776	0.07	9.65	-9.31	0.41	46.00	-45.59 Average
11	4.0920	0.08	9.67	5.65	15.40	56.00	-40.60 QP
12	4.0920	0.08	9.67	-8.87	0.88	46.00	-45.12 Average

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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

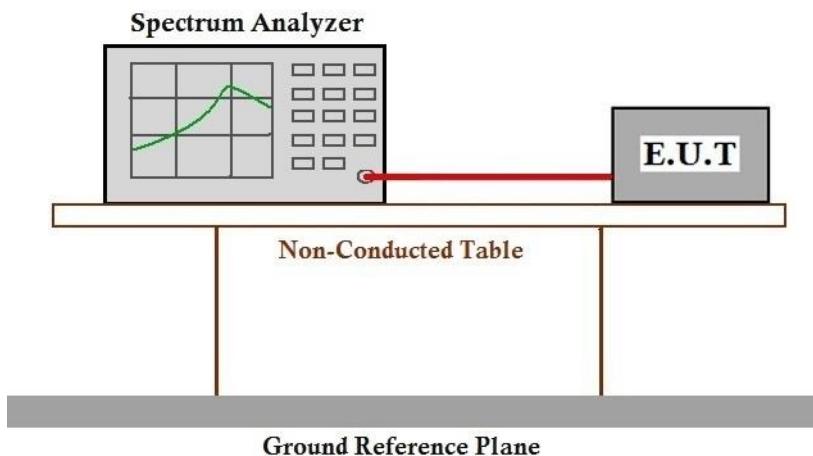
Operating Environment:

Temperature: 24.7 °C Humidity: 42.3 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

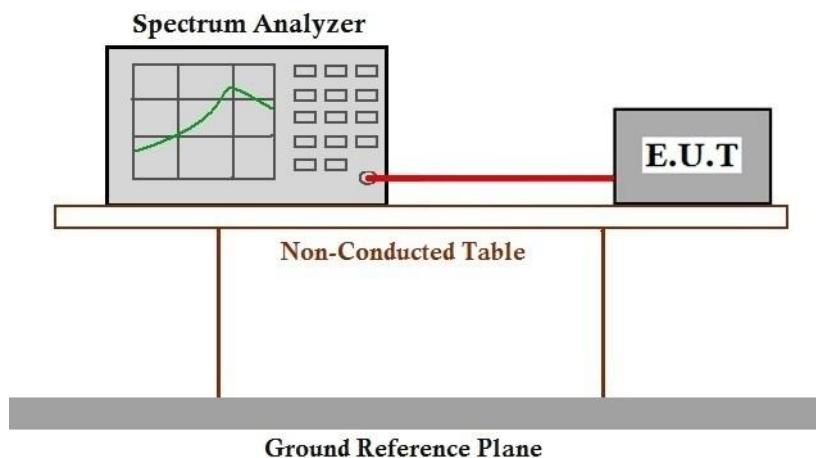
Operating Environment:

Temperature: 24.7 °C Humidity: 42.3 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

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

Test Method: KDB 789033 D02 II C 2

Limit:

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

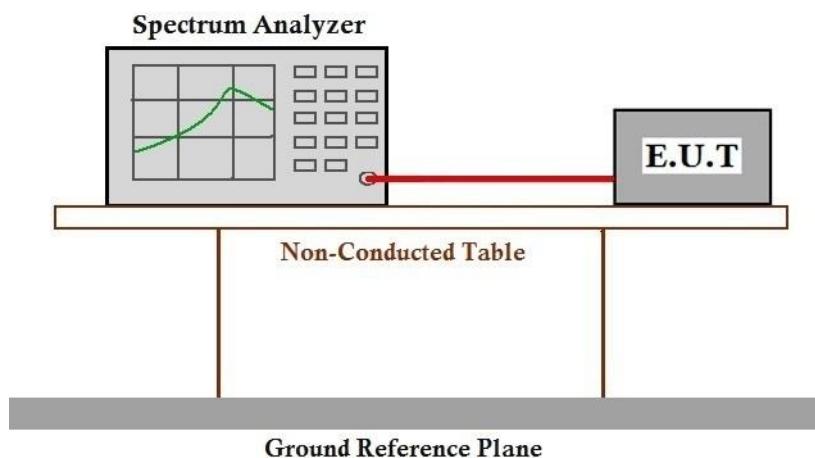
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 42.3 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram

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7.4.4 Measurement Procedure and Data

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7.5 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 42.3 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

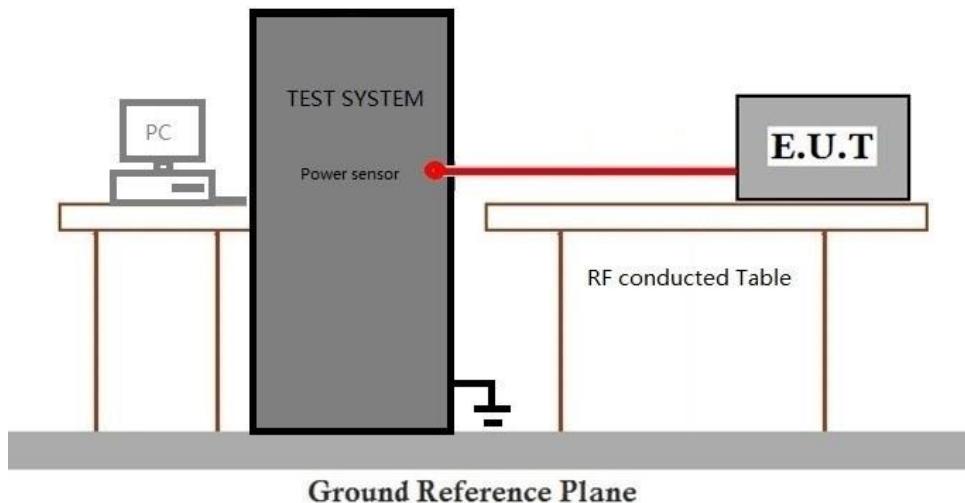
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7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

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

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7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 42.3 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

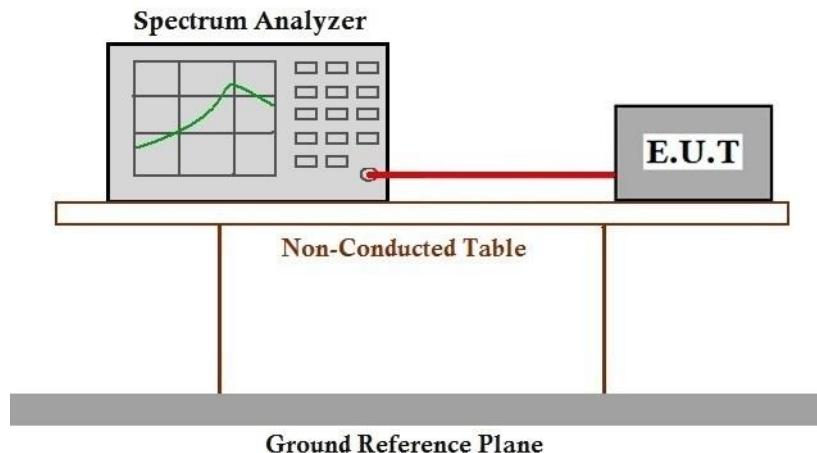
Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

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7.6.3 Test Setup Diagram**7.6.4 Measurement Procedure and Data**

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7.7 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

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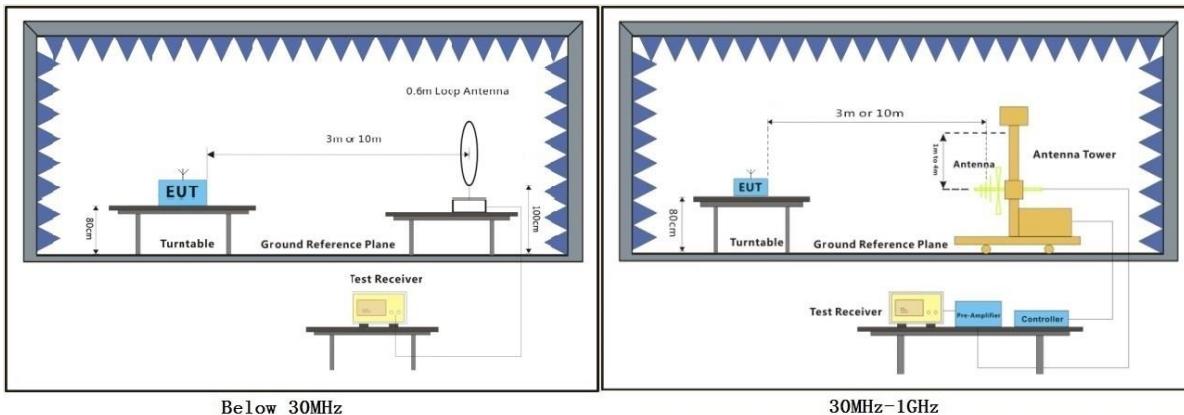


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7.7.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

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7.7.4 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.



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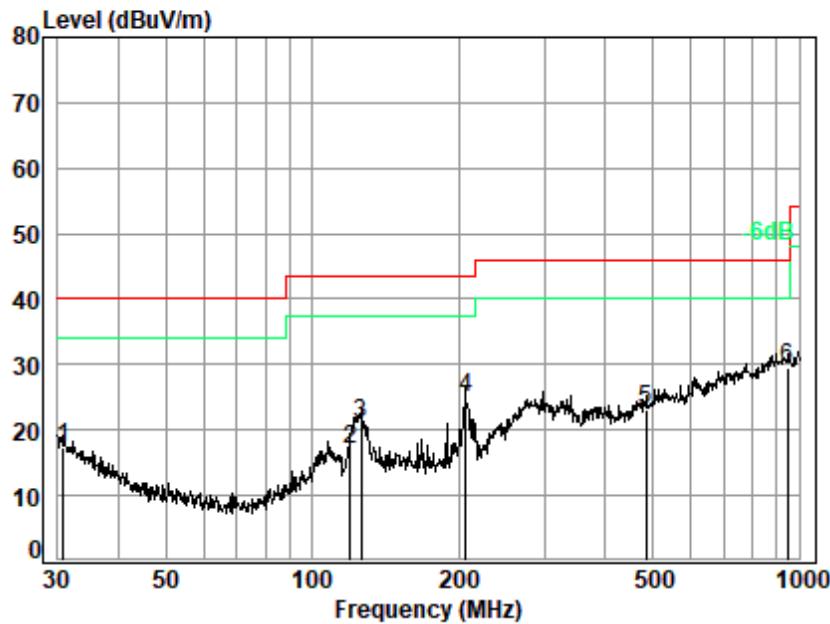
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Middle



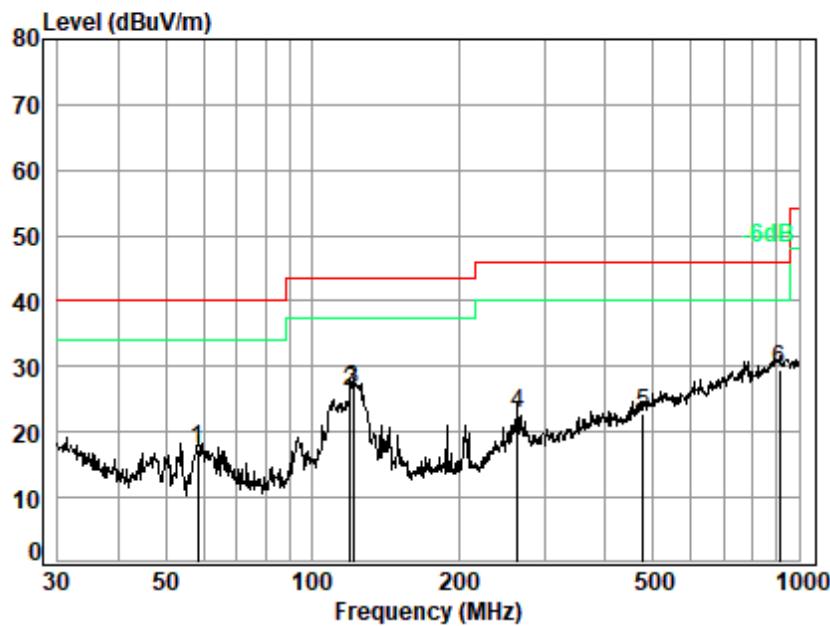
Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03030AT
Test Mode: 07

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	30.75	21.00	0.65	27.80	23.37	17.22	40.00	-22.78	QP
2	119.86	11.80	1.30	27.54	31.49	17.05	43.50	-26.45	QP
3	125.89	11.57	1.33	27.52	35.63	21.01	43.50	-22.49	QP
4	206.40	15.13	1.76	27.23	35.20	24.86	43.50	-18.64	QP
5	485.61	23.05	2.84	27.72	24.96	23.13	46.00	-22.87	QP
6 q	948.76	28.70	4.22	26.90	23.57	29.59	46.00	-16.41	QP

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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: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Middle



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 03030AT
 Test Mode: 07

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	58.20	11.47	0.90	27.73	32.71	17.35	40.00	-22.65 QP
2	119.86	11.80	1.30	27.54	40.53	26.09	43.50	-17.41 QP
3	121.12	11.75	1.30	27.53	40.81	26.33	43.50	-17.17 QP
4	263.82	17.85	2.01	27.02	29.91	22.75	46.00	-23.25 QP
5	478.85	23.17	2.82	27.69	24.43	22.73	46.00	-23.27 QP
6 q	912.86	28.38	4.12	27.07	24.08	29.51	46.00	-16.49 QP

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7.8 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3

*(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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C

Humidity: 51.4 % RH

Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	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

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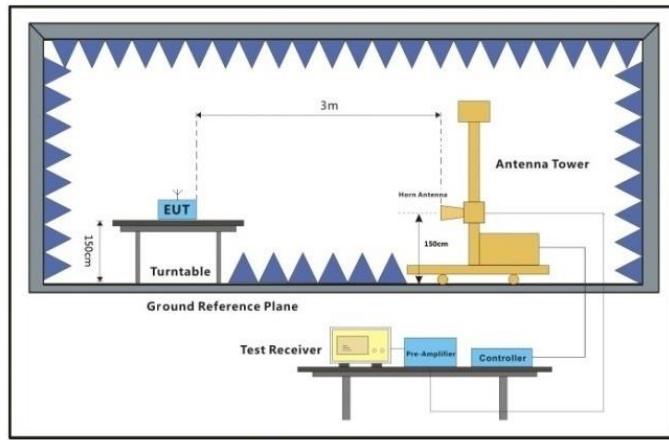
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Shenzhen Branch is a SGS Laboratory.

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

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

		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
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.



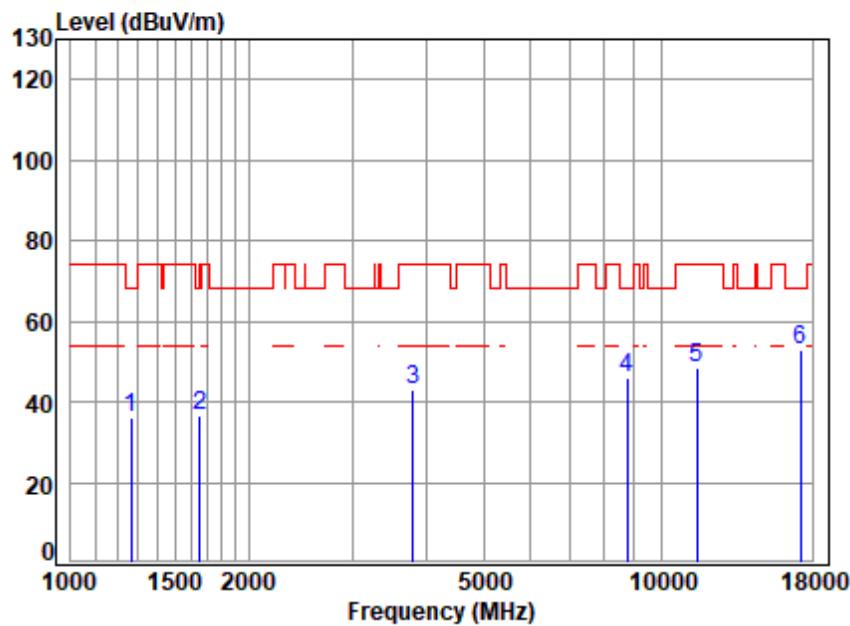
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



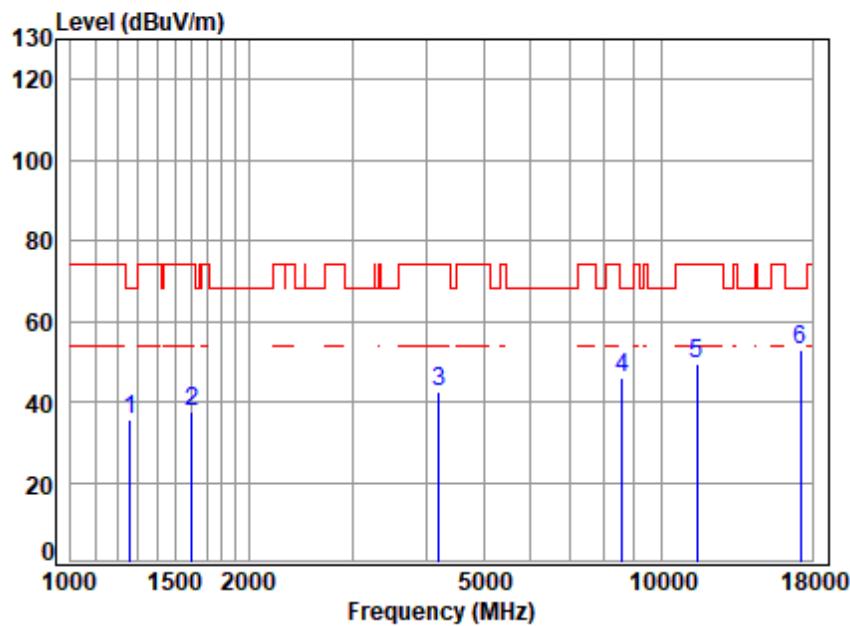
Site : chamber
Condition: 3m HORIZONTAL
Job No : 0330AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1263.80	2.90	24.56	38.60	47.42	36.28	68.20	-31.92 peak
2	1653.55	3.43	26.71	38.84	45.11	36.41	68.20	-31.79 peak
3	3801.33	6.02	32.80	40.16	44.41	43.07	74.00	-30.93 peak
4	8738.85	9.90	36.70	38.57	37.96	45.99	68.20	-22.21 peak
5	11490.00	11.58	37.99	37.16	36.12	48.53	74.00	-25.47 peak
6	17235.00	14.18	43.34	39.38	34.96	53.10	68.20	-15.10 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



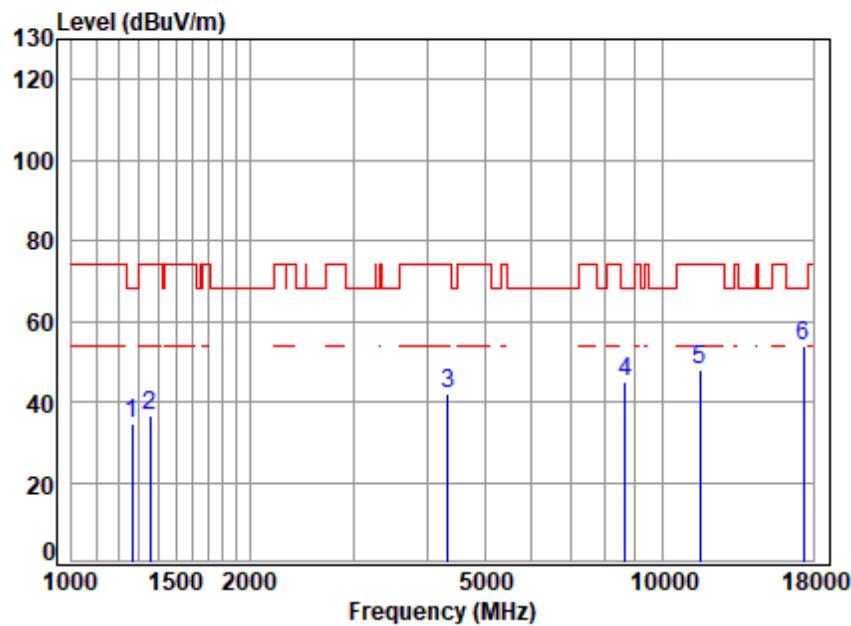
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.15	2.90	24.54	38.60	46.94	35.78	68.20	-32.42 peak
2	1606.44	3.38	26.53	38.81	46.50	37.60	74.00	-36.40 peak
3	4193.87	6.48	33.36	40.45	43.10	42.49	74.00	-31.51 peak
4	8588.61	9.77	36.58	38.85	38.24	45.74	68.20	-22.46 peak
5	11490.00	11.58	37.99	37.16	36.85	49.26	74.00	-24.74 peak
6	17235.00	14.18	43.34	39.38	34.88	53.02	68.20	-15.18 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



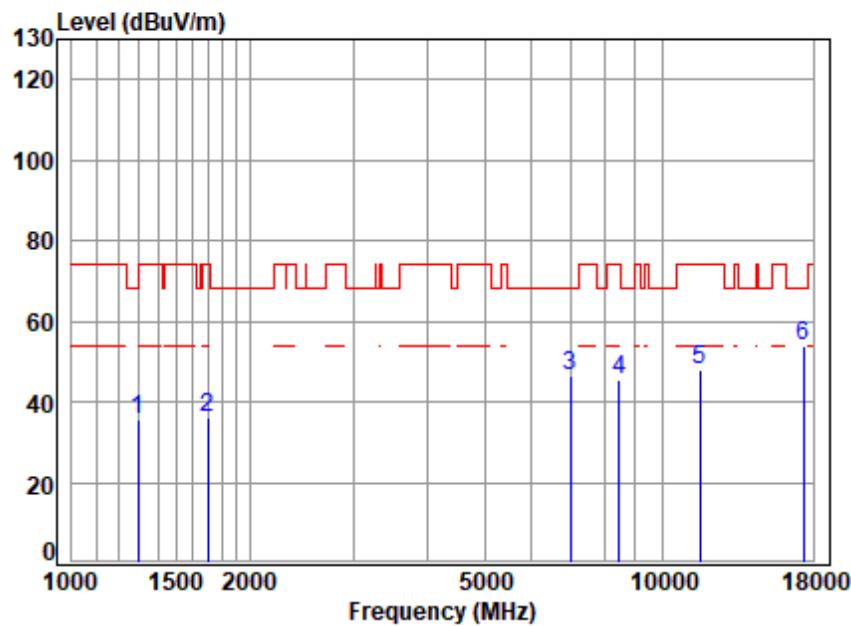
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 0330AT
 Mode : 5785 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1267.45	2.91	24.57	38.61	45.53	34.40	68.20	-33.80 peak
2	1358.50	3.05	24.92	38.67	47.33	36.63	74.00	-37.37 peak
3	4329.35	6.61	33.60	40.55	42.49	42.15	74.00	-31.85 peak
4	8638.40	9.81	36.60	38.76	37.34	44.99	68.20	-23.21 peak
5	11570.00	11.63	38.00	37.20	35.34	47.77	74.00	-26.23 peak
6	17355.00	14.19	43.46	39.35	35.55	53.85	68.20	-14.35 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



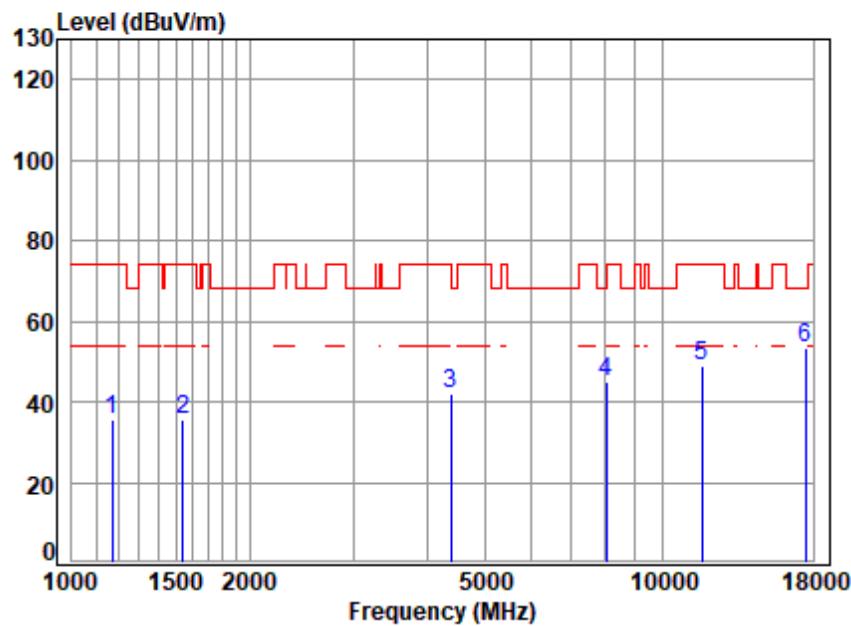
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1293.36	2.95	24.67	38.62	46.58	35.58	68.20	-32.62 peak
2	1697.13	3.49	26.79	38.86	44.69	36.11	74.00	-37.89 peak
3	6995.17	8.32	35.79	40.60	43.10	46.61	68.20	-21.59 Peak
4	8440.95	9.63	36.40	39.13	38.60	45.50	74.00	-28.50 peak
5	11570.00	11.63	38.00	37.20	35.35	47.78	74.00	-26.22 peak
6	17355.00	14.19	43.46	39.35	35.47	53.77	68.20	-14.43 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



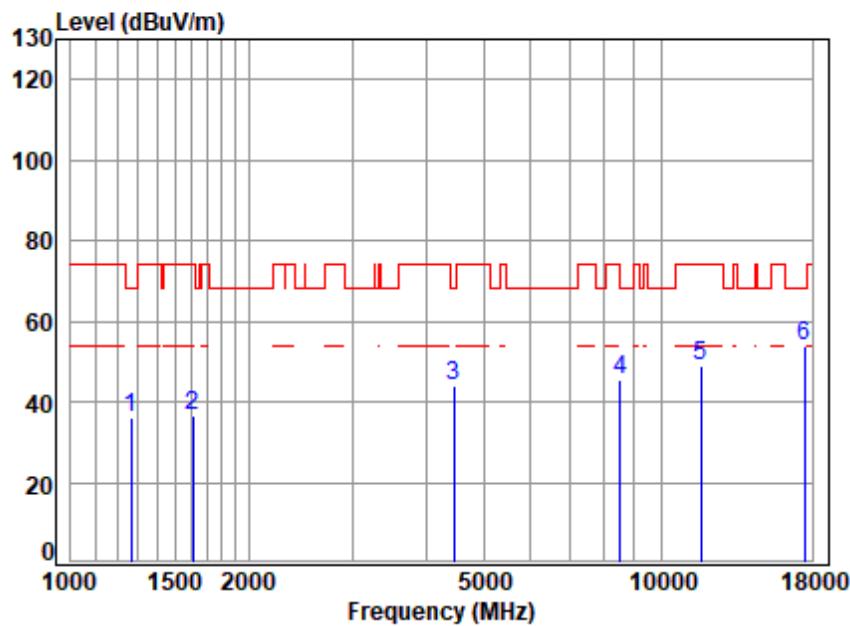
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 0330AT
 Mode : 5825 TX RSE
 Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1172.30	2.75	24.29	38.54	46.86	35.36	74.00	-38.64 peak
2	1542.73	3.30	25.83	38.78	45.21	35.56	74.00	-38.44 peak
3	4379.70	6.66	33.54	40.58	42.35	41.97	74.00	-32.03 peak
4	8036.21	9.25	36.20	39.93	39.68	45.20	74.00	-28.80 peak
5	11650.00	11.68	38.00	37.24	36.42	48.86	74.00	-25.14 peak
6	17475.00	14.20	43.58	39.33	34.96	53.41	68.20	-14.79 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



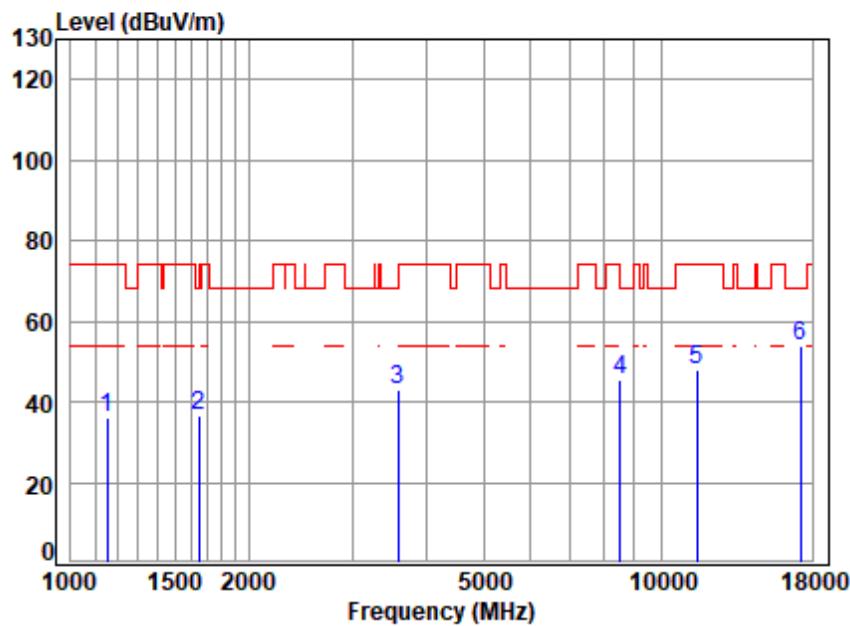
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1263.80	2.90	24.56	38.60	47.19	36.05	68.20	-32.15 peak
2	1611.09	3.38	26.54	38.81	45.68	36.79	74.00	-37.21 peak
3	4456.32	6.73	33.50	40.64	44.61	44.20	68.20	-24.00 peak
4	8514.46	9.70	36.50	38.99	38.39	45.60	68.20	-22.60 peak
5	11650.00	11.68	38.00	37.24	36.72	49.16	74.00	-24.84 peak
6	17475.00	14.20	43.58	39.33	35.28	53.73	68.20	-14.47 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



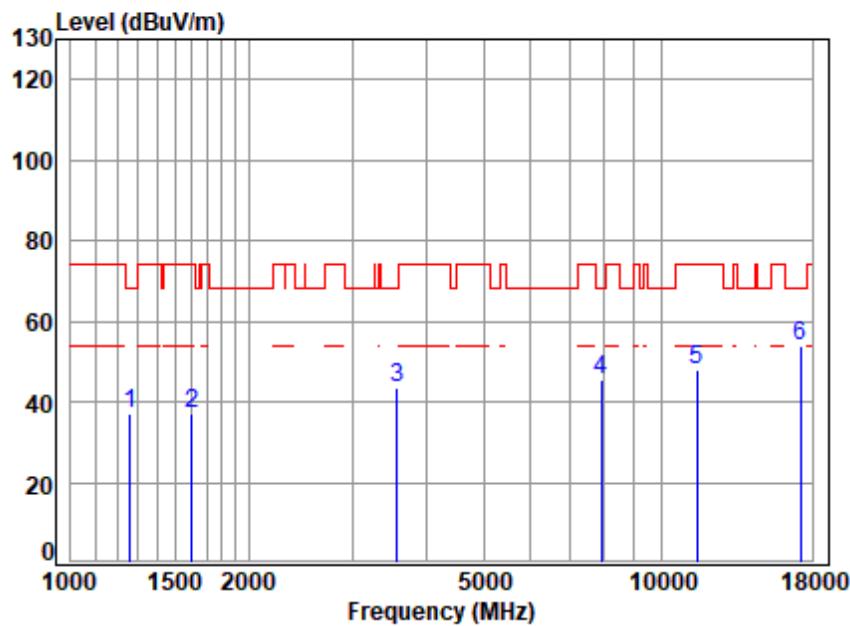
Site : chamber
Condition: 3m HORIZONTAL
Job No : 0330AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1152.15	2.72	24.21	38.52	47.69	36.10	74.00	-37.90	peak
2	1648.78	3.43	26.70	38.83	45.21	36.51	68.20	-31.69	peak
3	3577.46	5.71	31.86	39.99	45.25	42.83	68.20	-25.37	peak
4	8514.46	9.70	36.50	38.99	38.06	45.27	68.20	-22.93	peak
5	11490.00	11.58	37.99	37.16	35.59	48.00	74.00	-26.00	peak
6	17235.00	14.18	43.34	39.38	35.74	53.88	68.20	-14.32	peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



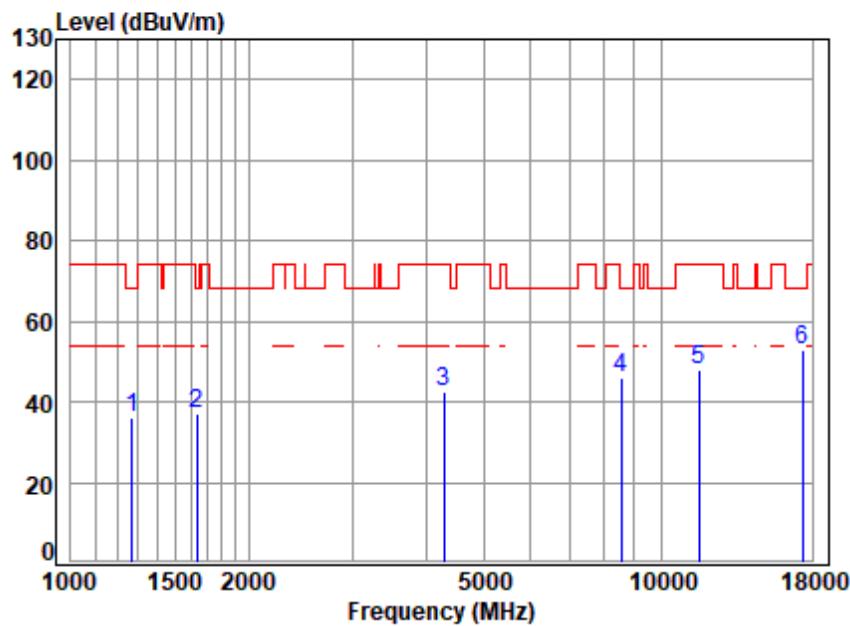
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.15	2.90	24.54	38.60	48.05	36.89	68.20	-31.31 peak
2	1601.80	3.37	26.51	38.81	45.90	36.97	74.00	-37.03 peak
3	3567.14	5.69	31.83	39.98	45.73	43.27	68.20	-24.93 peak
4	7920.91	9.15	36.20	40.04	40.17	45.48	68.20	-22.72 peak
5	11490.00	11.58	37.99	37.16	35.64	48.05	74.00	-25.95 peak
6	17235.00	14.18	43.34	39.38	35.67	53.81	68.20	-14.39 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



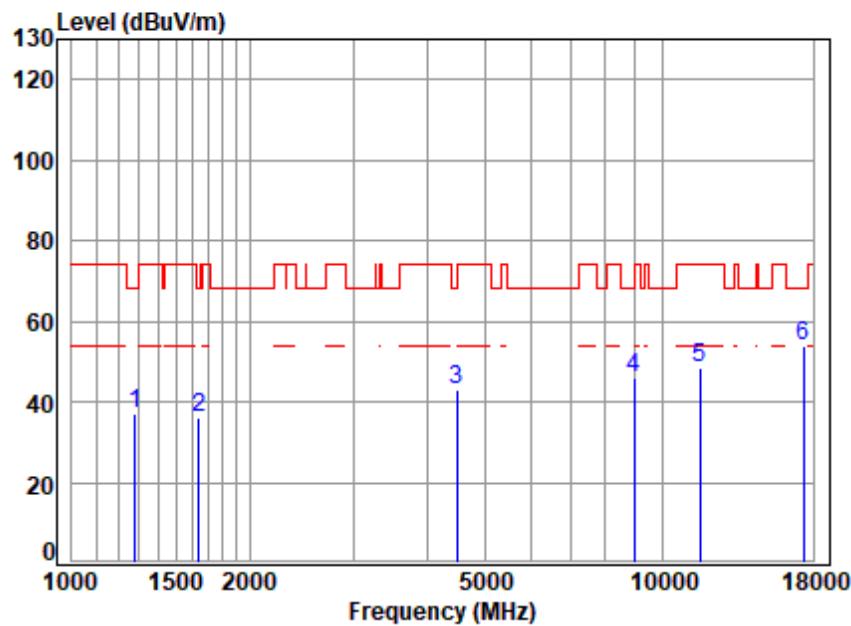
Site : chamber
Condition: 3m HORIZONTAL
Job No : 0330AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1271.12	2.91	24.59	38.61	47.26	36.15	68.20	-32.05 peak
2	1634.54	3.41	26.64	38.83	45.62	36.84	68.20	-31.36 peak
3	4291.98	6.57	33.60	40.52	42.76	42.41	74.00	-31.59 peak
4	8539.10	9.72	36.50	38.95	38.69	45.96	68.20	-22.24 peak
5	11570.00	11.63	38.00	37.20	35.29	47.72	74.00	-26.28 peak
6	17355.00	14.19	43.46	39.35	34.72	53.02	68.20	-15.18 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



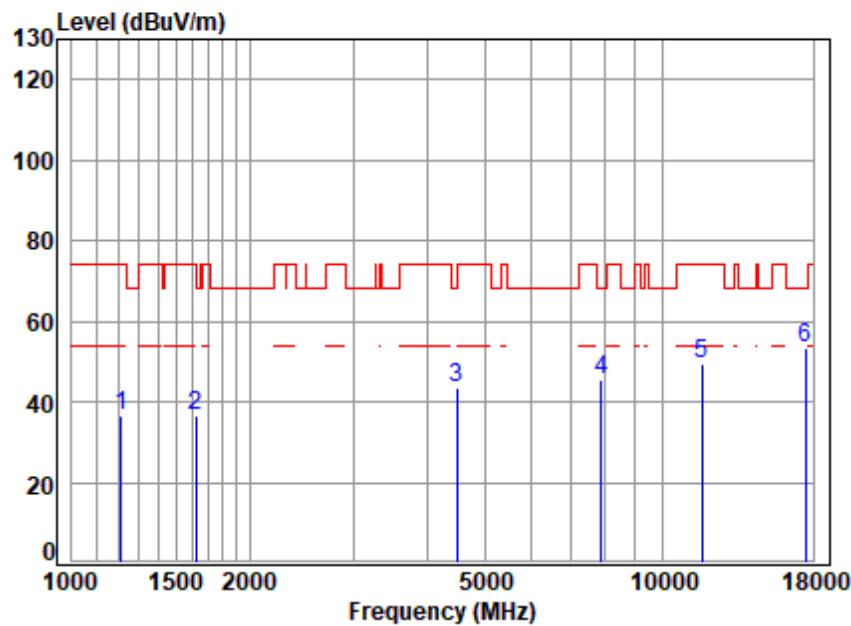
Site : chamber
 Condition: 3m VERTICAL
 Job No : 0330AT
 Mode : 5785 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.49	2.93	24.61	38.61	48.10	37.03	68.20	-31.17 peak
2	1644.02	3.42	26.68	38.83	44.67	35.94	68.20	-32.26 peak
3	4495.13	6.77	33.50	40.67	43.36	42.96	68.20	-25.24 peak
4	8969.16	10.10	36.70	38.16	37.48	46.12	68.20	-22.08 peak
5	11570.00	11.63	38.00	37.20	36.23	48.66	74.00	-25.34 peak
6	17355.00	14.19	43.46	39.35	35.45	53.75	68.20	-14.45 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



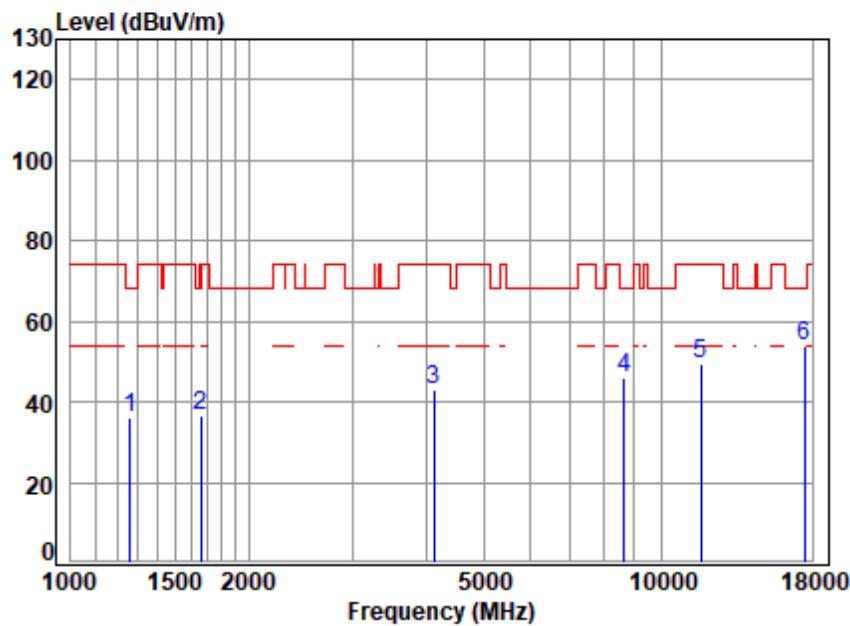
Site : chamber
Condition: 3m HORIZONTAL
Job No : 0330AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1210.17	2.82	24.42	38.57	47.67	36.34	74.00	-37.66 peak
2	1620.43	3.39	26.58	38.82	45.58	36.73	74.00	-37.27 peak
3	4482.15	6.75	33.50	40.66	43.79	43.38	68.20	-24.82 peak
4	7875.25	9.11	36.20	40.07	40.33	45.57	68.20	-22.63 peak
5	11650.00	11.68	38.00	37.24	36.78	49.22	74.00	-24.78 peak
6	17475.00	14.20	43.58	39.33	34.87	53.32	68.20	-14.88 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



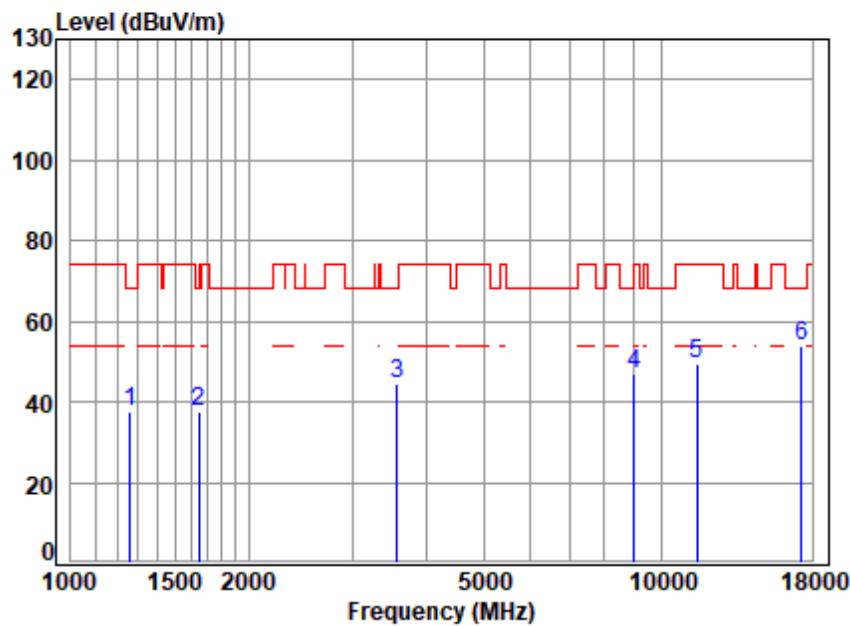
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.15	2.90	24.54	38.60	47.17	36.01	68.20	-32.19 peak
2	1663.14	3.45	26.73	38.84	45.30	36.64	74.00	-37.36 peak
3	4121.77	6.40	33.04	40.39	43.82	42.87	74.00	-31.13 peak
4	8638.40	9.81	36.60	38.76	38.40	46.05	68.20	-22.15 peak
5	11650.00	11.68	38.00	37.24	37.21	49.65	74.00	-24.35 peak
6	17475.00	14.20	43.58	39.33	35.50	53.95	68.20	-14.25 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



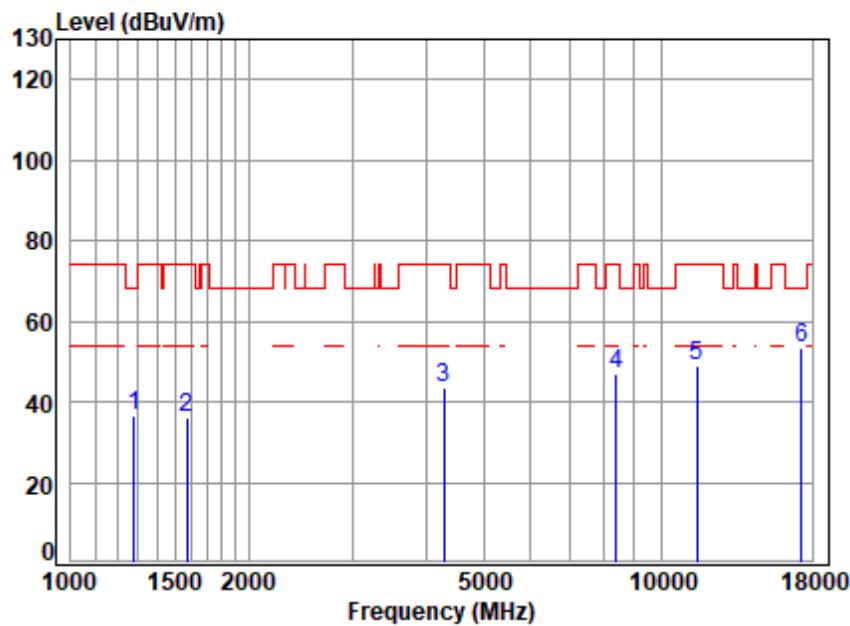
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 0330AT
 Mode : 5755 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.15	2.90	24.54	38.60	48.85	37.69	68.20	-30.51 peak
2	1648.78	3.43	26.70	38.83	46.24	37.54	68.20	-30.66 peak
3	3567.14	5.69	31.83	39.98	46.72	44.26	68.20	-23.94 peak
4	8995.12	10.13	36.70	38.11	38.03	46.75	68.20	-21.45 peak
5	11510.00	11.59	38.00	37.17	37.16	49.58	74.00	-24.42 peak
6	17265.00	14.18	43.37	39.38	35.63	53.80	68.20	-14.40 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



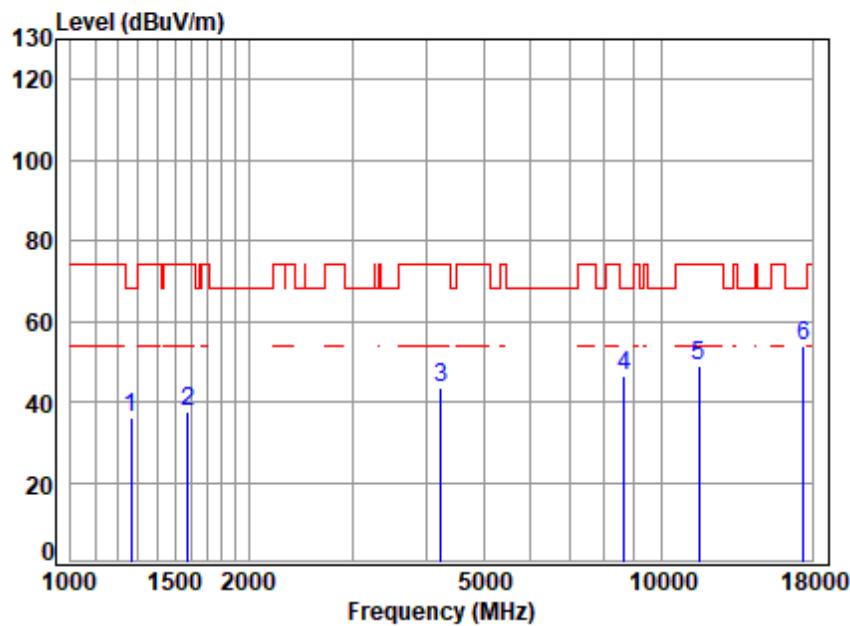
Site : chamber
 Condition: 3m VERTICAL
 Job No : 0330AT
 Mode : 5755 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1278.49	2.93	24.61	38.61	47.75	36.68	68.20	-31.52 peak
2	1574.27	3.34	26.19	38.79	45.38	36.12	74.00	-37.88 peak
3	4291.98	6.57	33.60	40.52	44.02	43.67	74.00	-30.33 peak
4	8392.29	9.59	36.40	39.23	39.97	46.73	74.00	-27.27 peak
5	11510.00	11.59	38.00	37.17	36.35	48.77	74.00	-25.23 peak
6	17265.00	14.18	43.37	39.38	35.22	53.39	68.20	-14.81 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



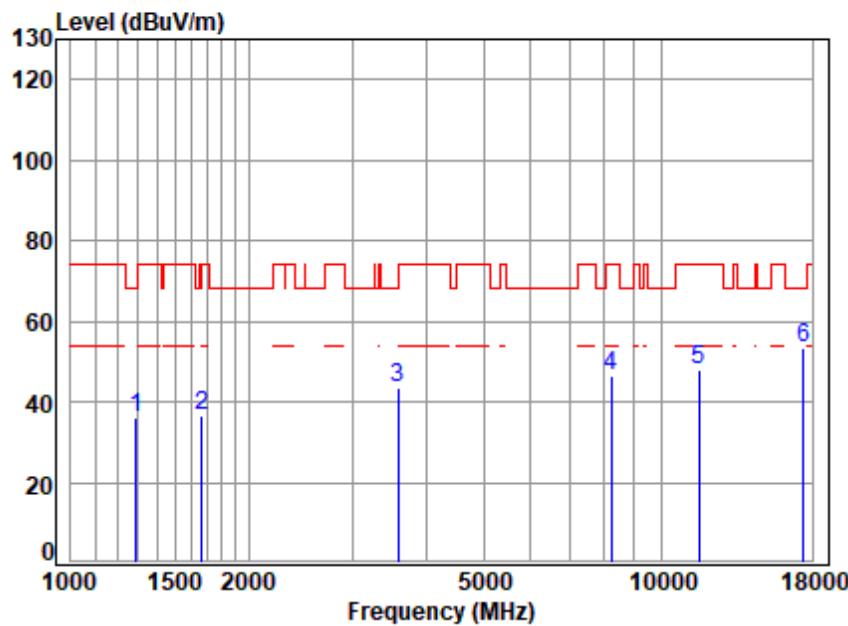
Site : chamber
Condition: 3m HORIZONTAL
Job No : 0330AT
Mode : 5795 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1263.80	2.90	24.56	38.60	47.01	35.87	68.20	-32.33 peak
2	1578.82	3.34	26.25	38.80	46.56	37.35	74.00	-36.65 peak
3	4230.40	6.51	33.52	40.48	43.82	43.37	74.00	-30.63 peak
4	8663.40	9.84	36.63	38.71	38.85	46.61	68.20	-21.59 peak
5	11590.00	11.64	38.00	37.21	36.51	48.94	74.00	-25.06 peak
6	17385.00	14.20	43.49	39.35	35.64	53.98	68.20	-14.22 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



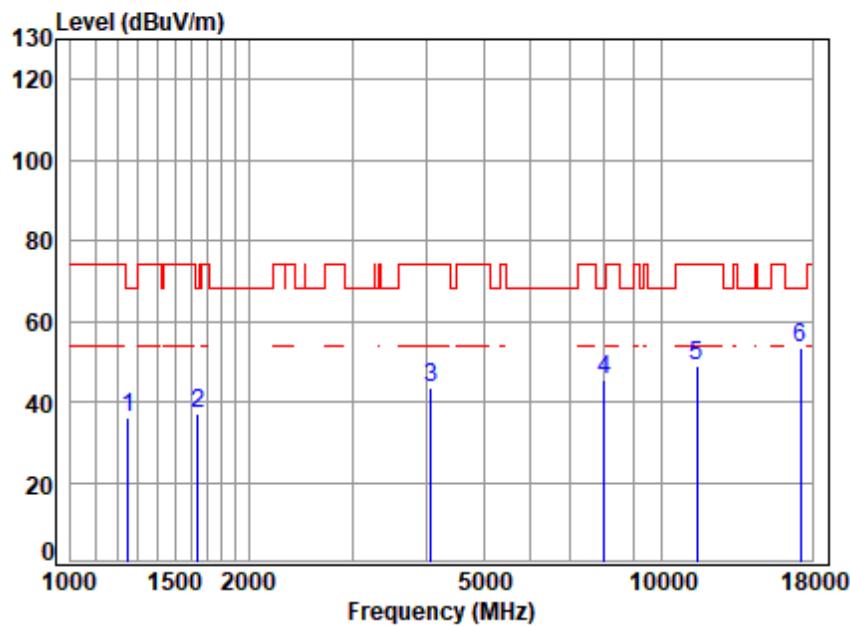
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5795 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1289.63	2.94	24.66	38.62	47.16	36.14	68.20	-32.06 peak
2	1667.95	3.45	26.74	38.84	45.47	36.82	74.00	-37.18 peak
3	3587.82	5.72	31.88	40.00	45.93	43.53	68.20	-24.67 peak
4	8224.20	9.43	36.40	39.55	40.22	46.50	74.00	-27.50 peak
5	11590.00	11.64	38.00	37.21	35.50	47.93	74.00	-26.07 peak
6	17385.00	14.20	43.49	39.35	34.84	53.18	68.20	-15.02 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



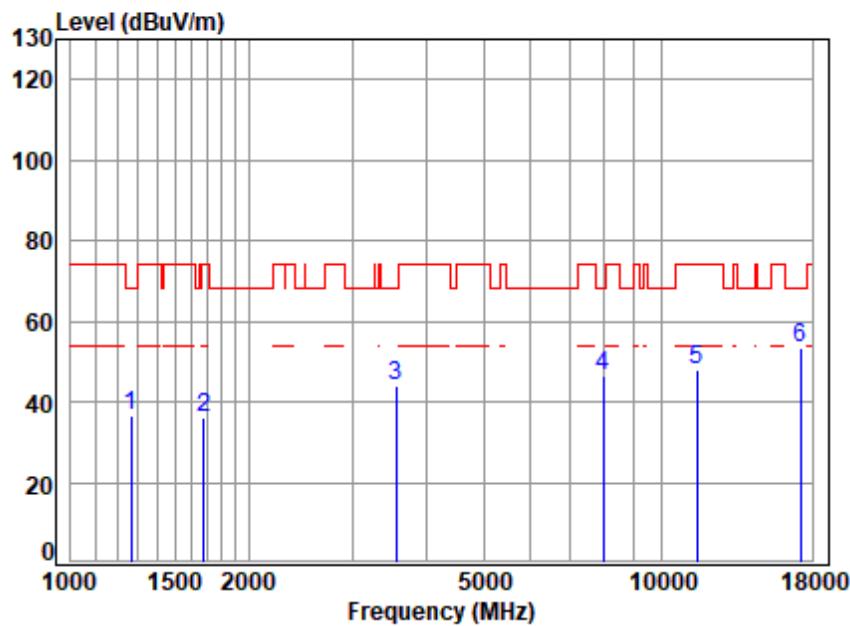
Site : chamber
Condition: 3m HORIZONTAL
Job No : 0330AT
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1252.89	2.89	24.51	38.60	47.14	35.94	68.20	-32.26 peak
2	1639.27	3.42	26.66	38.83	45.86	37.11	68.20	-31.09 peak
3	4074.39	6.36	32.95	40.36	44.40	43.35	74.00	-30.65 peak
4	8013.02	9.23	36.20	39.97	40.15	45.61	68.20	-22.59 peak
5	11490.00	11.58	37.99	37.16	36.71	49.12	74.00	-24.88 peak
6	17235.00	14.18	43.34	39.38	35.07	53.21	68.20	-14.99 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



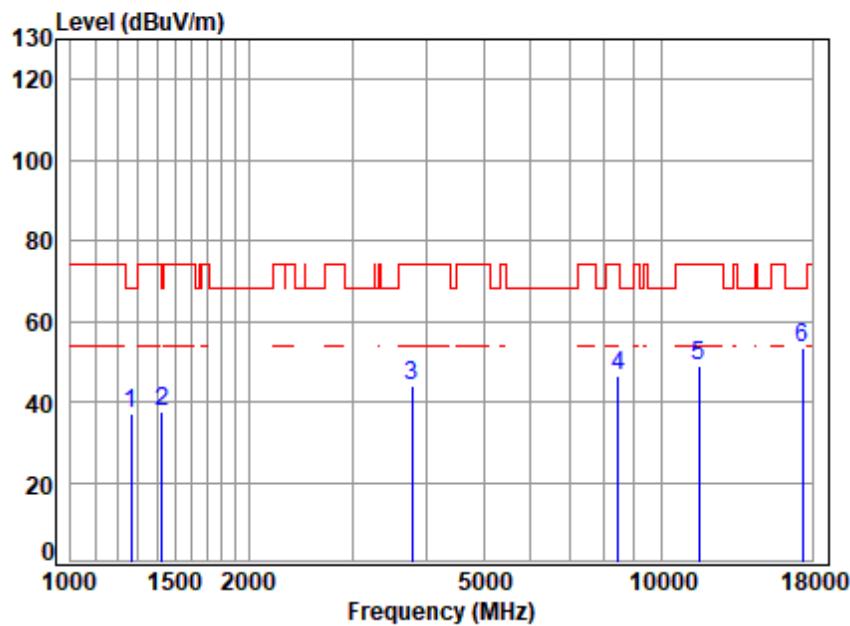
Site : chamber
 Condition: 3m VERTICAL
 Job No : 0330AT
 Mode : 5745 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1263.80	2.90	24.56	38.60	47.65	36.51	68.20	-31.69 peak
2	1682.48	3.47	26.77	38.85	44.78	36.17	74.00	-37.83 peak
3	3556.84	5.68	31.81	39.97	46.24	43.76	68.20	-24.44 peak
4	7989.89	9.21	36.20	40.01	41.01	46.41	68.20	-21.79 peak
5	11490.00	11.58	37.99	37.16	35.46	47.87	74.00	-26.13 peak
6	17235.00	14.18	43.34	39.38	35.12	53.26	68.20	-14.94 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



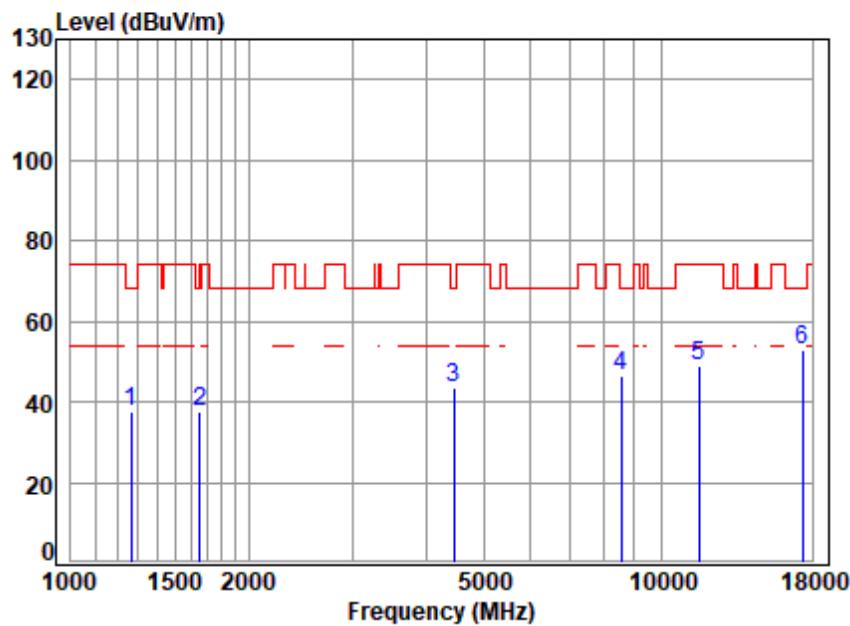
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 0330AT
 Mode : 5785 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1263.80	2.90	24.56	38.60	48.17	37.03	68.20	-31.17 peak
2	1426.92	3.14	25.11	38.71	48.05	37.59	74.00	-36.41 peak
3	3790.36	6.00	32.74	40.15	45.43	44.02	74.00	-29.98 peak
4	8440.95	9.63	36.40	39.13	39.64	46.54	74.00	-27.46 peak
5	11570.00	11.63	38.00	37.20	36.66	49.09	74.00	-24.91 peak
6	17355.00	14.19	43.46	39.35	34.90	53.20	68.20	-15.00 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

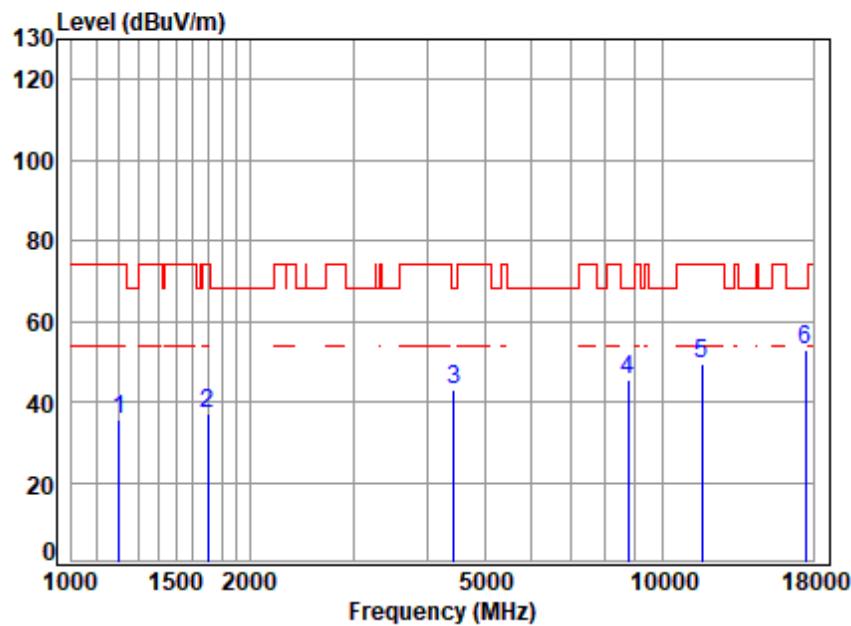
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1267.45	2.91	24.57	38.61	48.46	37.33	68.20	-30.87 peak
2	1653.55	3.43	26.71	38.84	46.14	37.44	68.20	-30.76 peak
3	4456.32	6.73	33.50	40.64	43.81	43.40	68.20	-24.80 peak
4	8563.82	9.75	36.53	38.90	39.03	46.41	68.20	-21.79 peak
5	11570.00	11.63	38.00	37.20	36.50	48.93	74.00	-25.07 peak
6	17355.00	14.19	43.46	39.35	34.82	53.12	68.20	-15.08 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



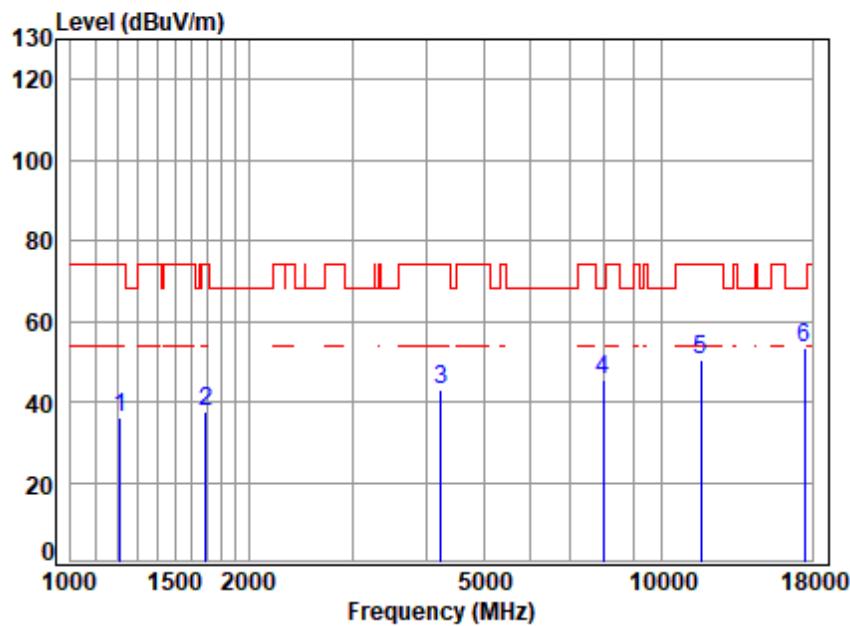
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 0330AT
 Mode : 5825 TX RSE
 Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1203.20	2.81	24.41	38.56	46.93	35.59	74.00	-38.41 peak
2	1697.13	3.49	26.79	38.86	45.81	37.23	74.00	-36.77 peak
3	4443.45	6.72	33.50	40.63	43.22	42.81	68.20	-25.39 peak
4	8738.85	9.90	36.70	38.57	37.67	45.70	68.20	-22.50 peak
5	11650.00	11.68	38.00	37.24	36.75	49.19	74.00	-24.81 peak
6	17475.00	14.20	43.58	39.33	34.69	53.14	68.20	-15.06 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



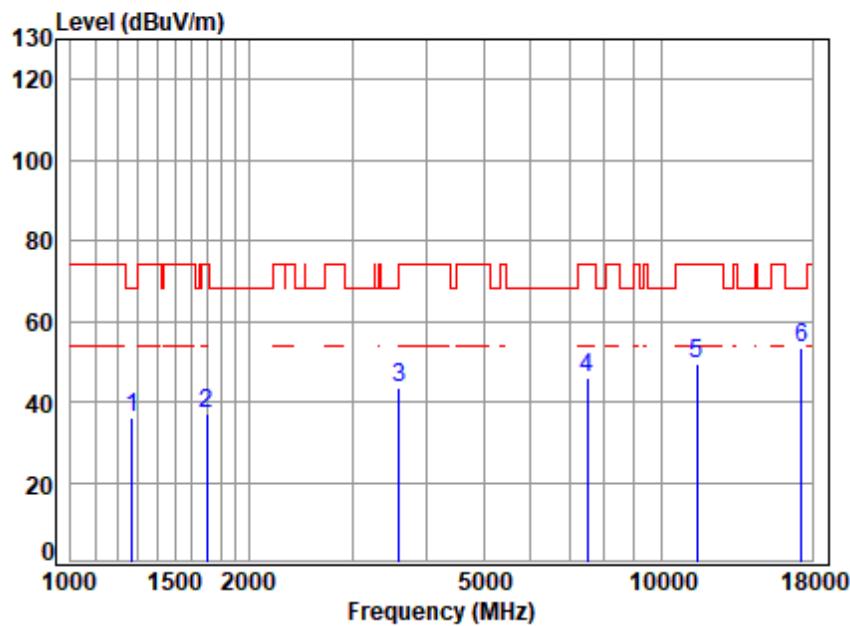
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.68	2.82	24.43	38.57	47.59	36.27	74.00	-37.73 peak
2	1692.23	3.48	26.78	38.86	46.13	37.53	74.00	-36.47 peak
3	4230.40	6.51	33.52	40.48	43.61	43.16	74.00	-30.84 peak
4	7989.89	9.21	36.20	40.01	40.32	45.72	68.20	-22.48 peak
5	11650.00	11.68	38.00	37.24	38.03	50.47	74.00	-23.53 peak
6	17475.00	14.20	43.58	39.33	34.71	53.16	68.20	-15.04 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



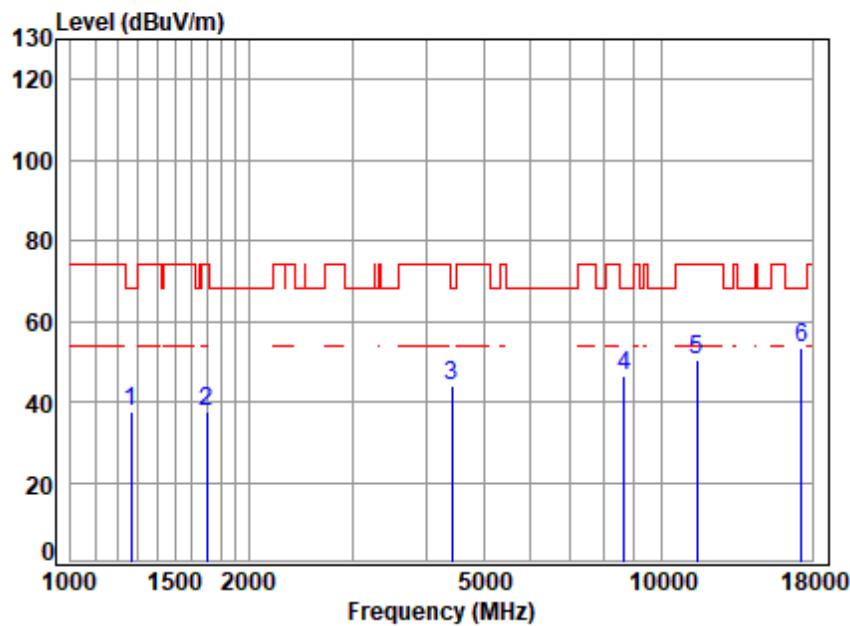
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 0330AT
 Mode : 5755 TX RSE
 Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1271.12	2.91	24.59	38.61	47.05	35.94	68.20	-32.26 peak
2	1697.13	3.49	26.79	38.86	45.49	36.91	74.00	-37.09 peak
3	3598.20	5.74	31.90	40.01	45.77	43.40	68.20	-24.80 peak
4	7497.65	8.78	36.00	40.29	41.52	46.01	74.00	-27.99 peak
5	11510.00	11.59	38.00	37.17	36.97	49.39	74.00	-24.61 peak
6	17265.00	14.18	43.37	39.38	35.08	53.25	68.20	-14.95 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



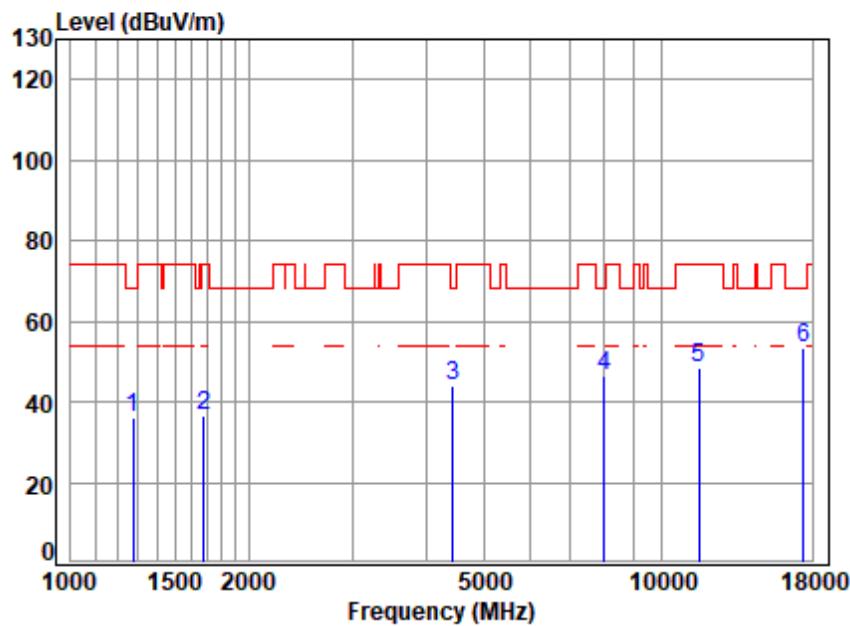
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1263.80	2.90	24.56	38.60	48.66	37.52	68.20	-30.68 peak
2	1697.13	3.49	26.79	38.86	45.90	37.32	74.00	-36.68 peak
3	4417.84	6.69	33.50	40.61	44.64	44.22	68.20	-23.98 peak
4	8638.40	9.81	36.60	38.76	39.01	46.66	68.20	-21.54 peak
5	11510.00	11.59	38.00	37.17	37.93	50.35	74.00	-23.65 peak
6	17265.00	14.18	43.37	39.38	35.27	53.44	68.20	-14.76 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



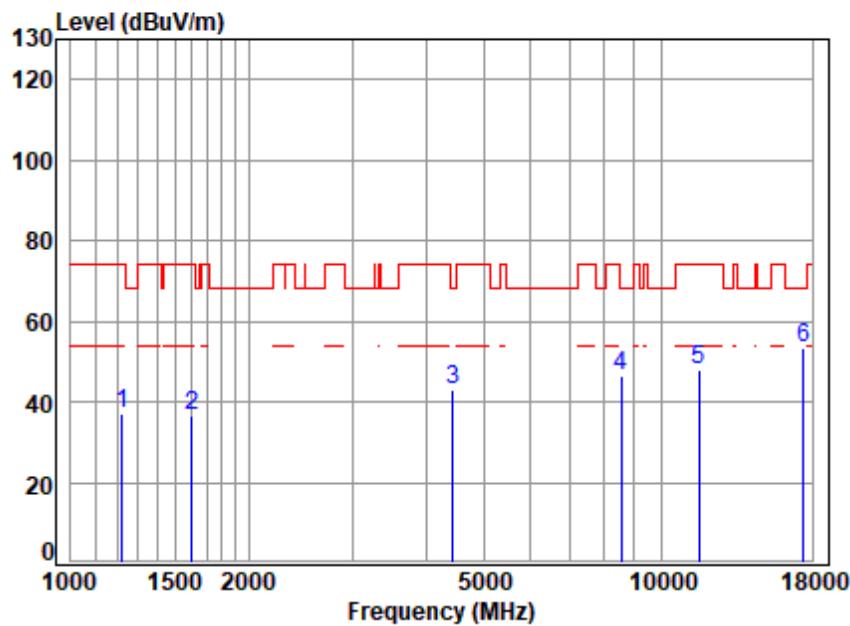
Site : chamber
Condition: 3m HORIZONTAL
Job No : 0330AT
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1274.80	2.92	24.60	38.61	47.28	36.19	68.20	-32.01 peak
2	1677.62	3.46	26.76	38.85	45.12	36.49	74.00	-37.51 peak
3	4430.63	6.71	33.50	40.62	44.26	43.85	68.20	-24.35 peak
4	8013.02	9.23	36.20	39.97	41.09	46.55	68.20	-21.65 peak
5	11590.00	11.64	38.00	37.21	35.91	48.34	74.00	-25.66 peak
6	17385.00	14.20	43.49	39.35	35.14	53.48	68.20	-14.72 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



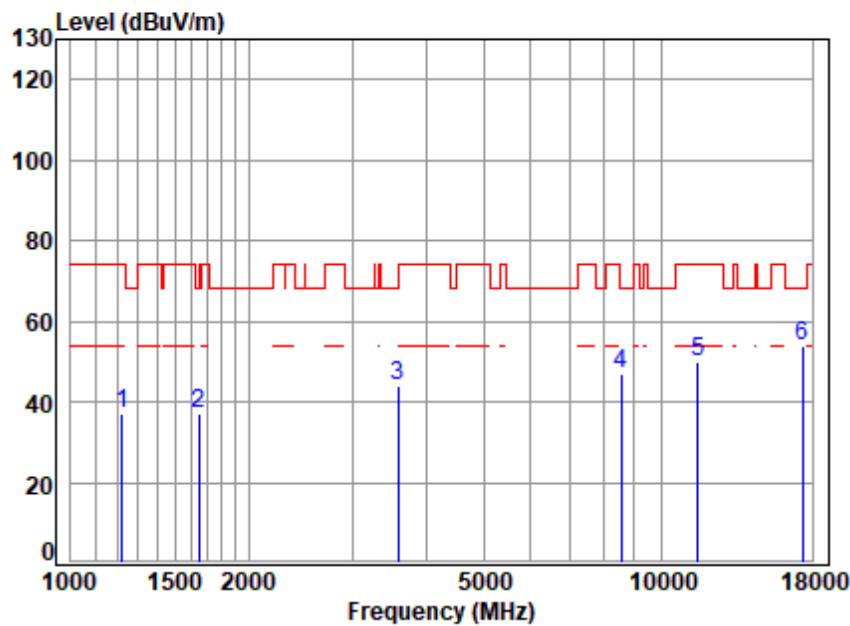
Site : chamber
Condition: 3m VERTICAL
Job No : 0330AT
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.71	2.83	24.44	38.57	48.58	37.28	74.00	-36.72 peak
2	1606.44	3.38	26.53	38.81	45.39	36.49	74.00	-37.51 peak
3	4443.45	6.72	33.50	40.63	43.66	43.25	68.20	-24.95 peak
4	8563.82	9.75	36.53	38.90	38.86	46.24	68.20	-21.96 peak
5	11590.00	11.64	38.00	37.21	35.35	47.78	74.00	-26.22 peak
6	17385.00	14.20	43.49	39.35	35.19	53.53	68.20	-14.67 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



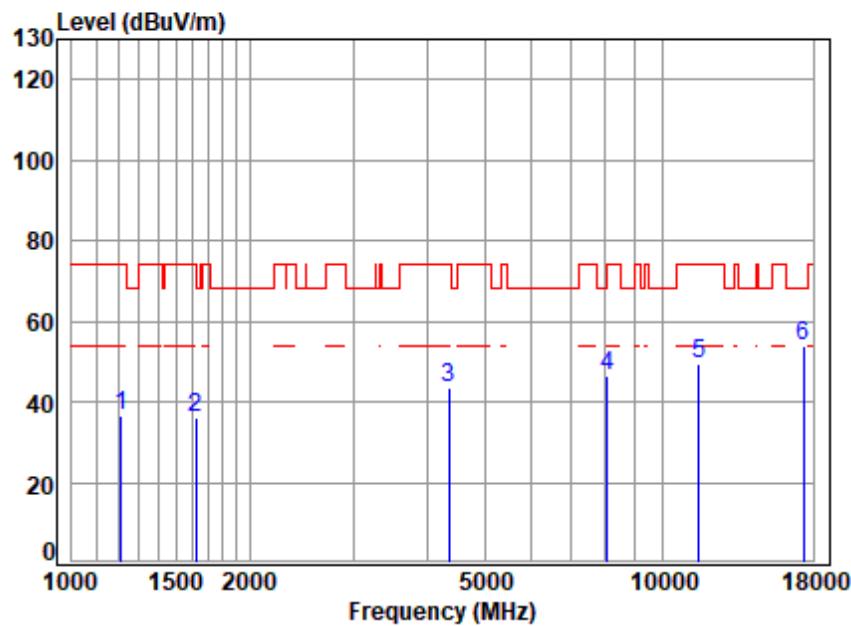
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 0330AT
 Mode : 5775 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.71	2.83	24.44	38.57	48.58	37.28	74.00	-36.72 peak
2	1648.78	3.43	26.70	38.83	45.73	37.03	68.20	-31.17 peak
3	3587.82	5.72	31.88	40.00	46.64	44.24	68.20	-23.96 peak
4	8563.82	9.75	36.53	38.90	39.54	46.92	68.20	-21.28 peak
5	11550.00	11.61	38.00	37.19	37.66	50.08	74.00	-23.92 peak
6	17325.00	14.19	43.43	39.36	35.43	53.69	68.20	-14.51 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 0330AT
 Mode : 5775 TX RSE
 Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1213.68	2.82	24.43	38.57	47.78	36.46	74.00	-37.54 peak
2	1625.12	3.40	26.60	38.82	44.99	36.17	74.00	-37.83 peak
3	4354.45	6.63	33.59	40.57	43.91	43.56	74.00	-30.44 peak
4	8059.48	9.28	36.22	39.88	40.70	46.32	74.00	-27.68 peak
5	11550.00	11.61	38.00	37.19	37.10	49.52	74.00	-24.48 peak
6	17325.00	14.19	43.43	39.36	35.55	53.81	68.20	-14.39 peak

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7.9 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: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

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

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

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

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

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

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

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7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

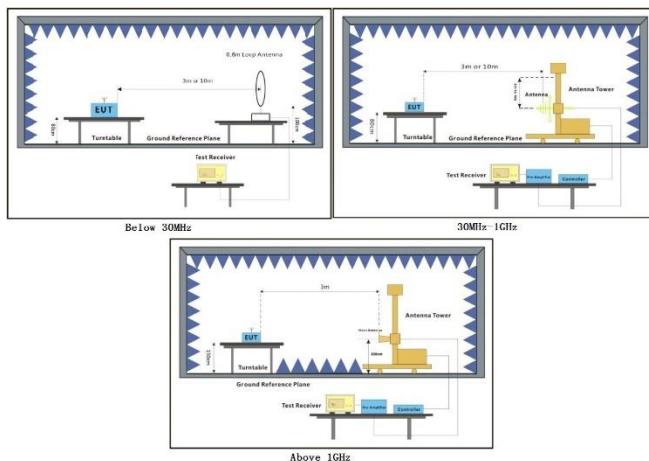
Humidity: 51.3 % RH

Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

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

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



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Shenzhen Branch Laboratory

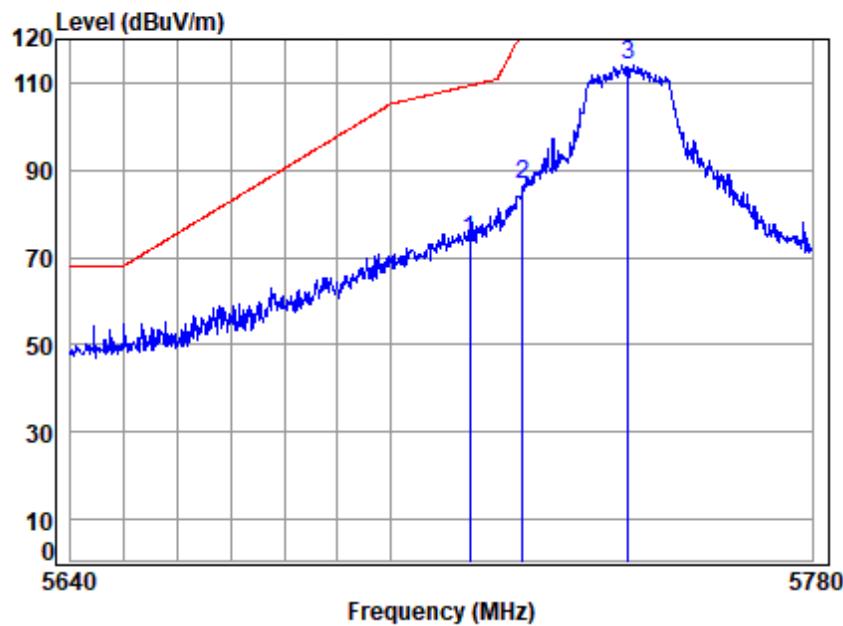
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5745 Band edge
Note : 5G WIFI 11A

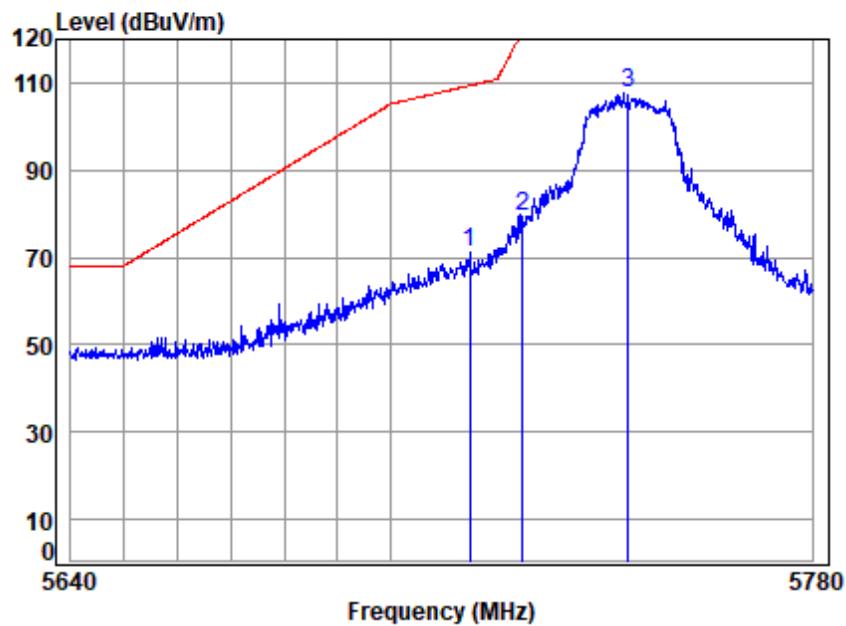
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	5715.00	7.91	34.50	41.29	72.94	74.06	109.40 -35.34 peak
2	5725.00	7.92	34.50	41.30	85.41	86.53	122.20 -35.67 peak
3	5745.00	7.93	34.50	41.30	112.96	114.09	----- ----- peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5745 Band edge
Note : 5G WIFI 11A

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.91	34.50	41.29	70.26	71.38	109.40	-38.02 peak
2	5725.00	7.92	34.50	41.30	78.40	79.52	122.20	-42.68 peak
3	5745.00	7.93	34.50	41.30	106.40	107.53	-----	----- peak

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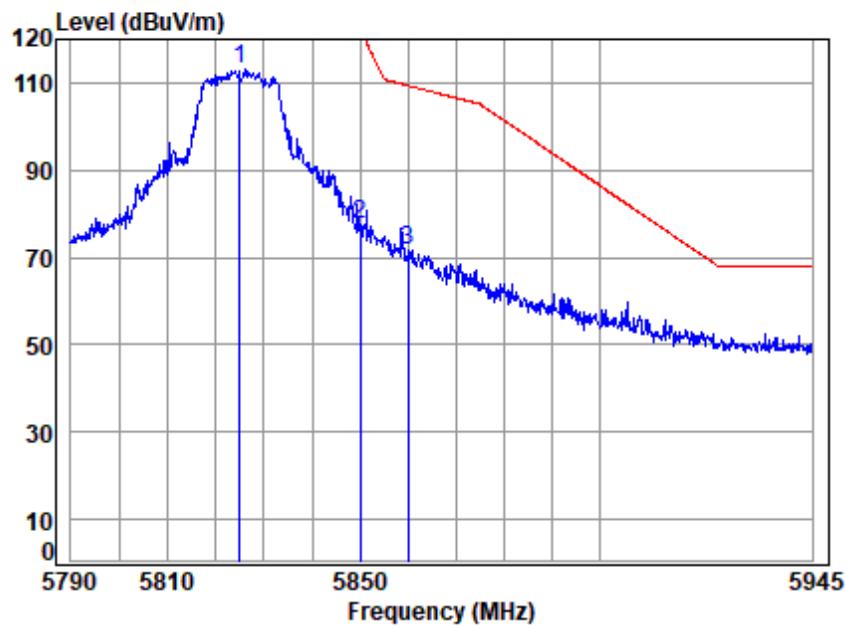
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



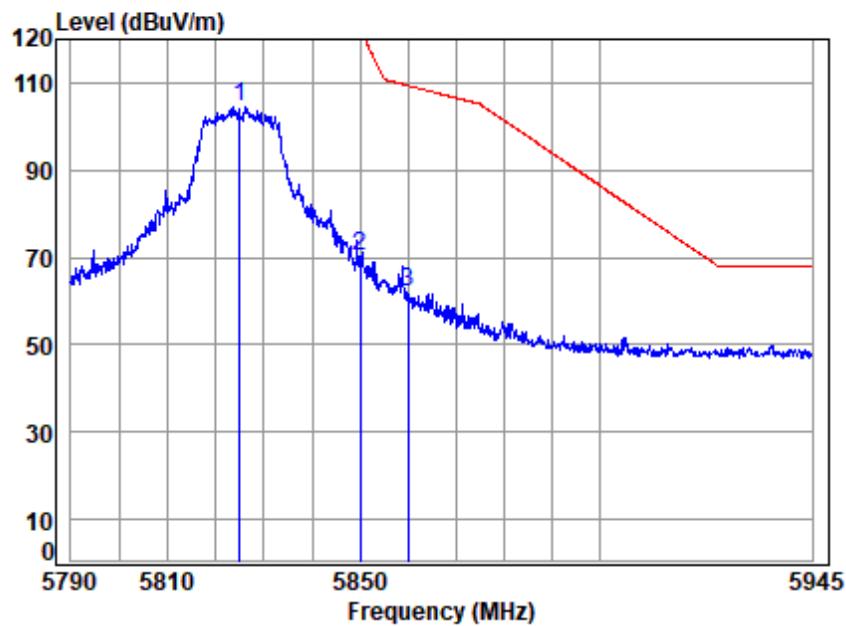
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5825 Band edge
Note : 5G WIFI 11A

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.00	8.01	34.65	41.34	111.78	113.10	-----	----- peak
2 5850.00	8.03	34.70	41.34	76.13	77.52	122.20	-44.68 peak
3 5860.00	8.04	34.72	41.35	70.01	71.42	109.40	-37.98 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5825 Band edge
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz									
1	5825.00	8.01	34.65	41.34	103.17	104.49	-----	-----	peak
2	5850.00	8.03	34.70	41.34	68.71	70.10	122.20	-52.10	peak
3	5860.00	8.04	34.72	41.35	60.80	62.21	109.40	-47.19	peak

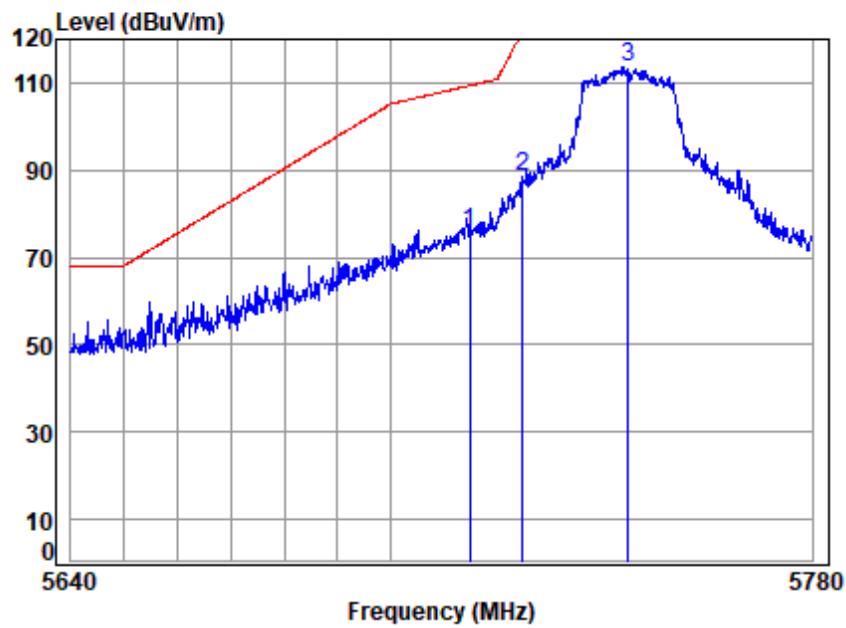
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5745 Band edge
Note : 5G WIFI 11N20

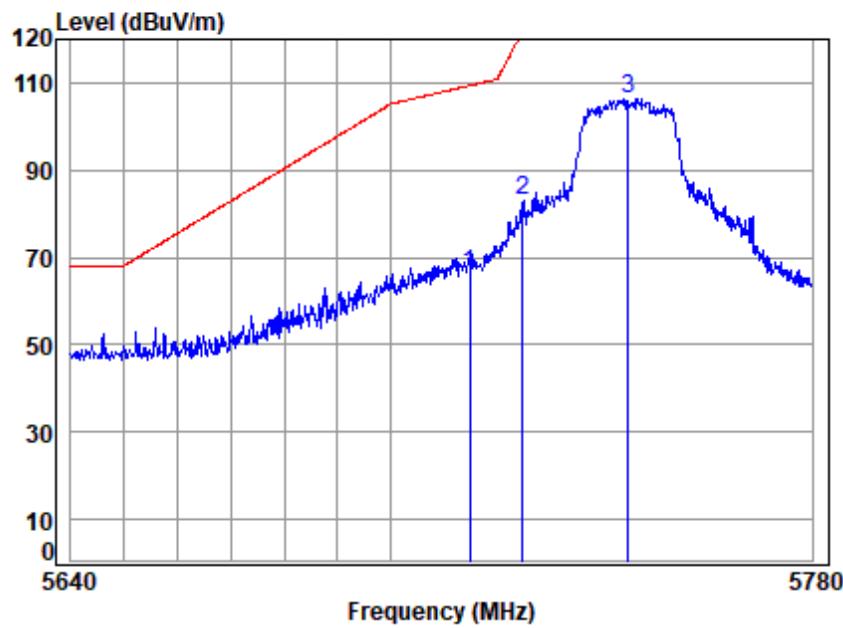
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	5715.00	7.91	34.50	41.29	74.79	75.91	109.40	-33.49 peak
2	5725.00	7.92	34.50	41.30	87.49	88.61	122.20	-33.59 peak
3	5745.00	7.93	34.50	41.30	112.47	113.60	-----	----- peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5745 Band edge
Note : 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.91	34.50	41.29	65.24	66.36	109.40
2	5725.00	7.92	34.50	41.30	81.71	82.83	122.20
3	5745.00	7.93	34.50	41.30	105.25	106.38	----- peak

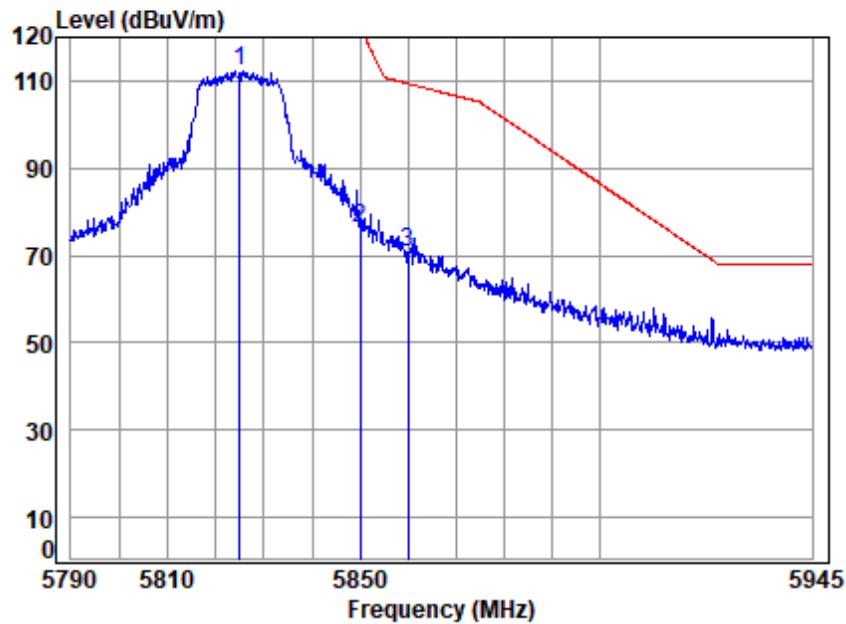
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5825 Band edge
Note : 5G WIFI 11N20

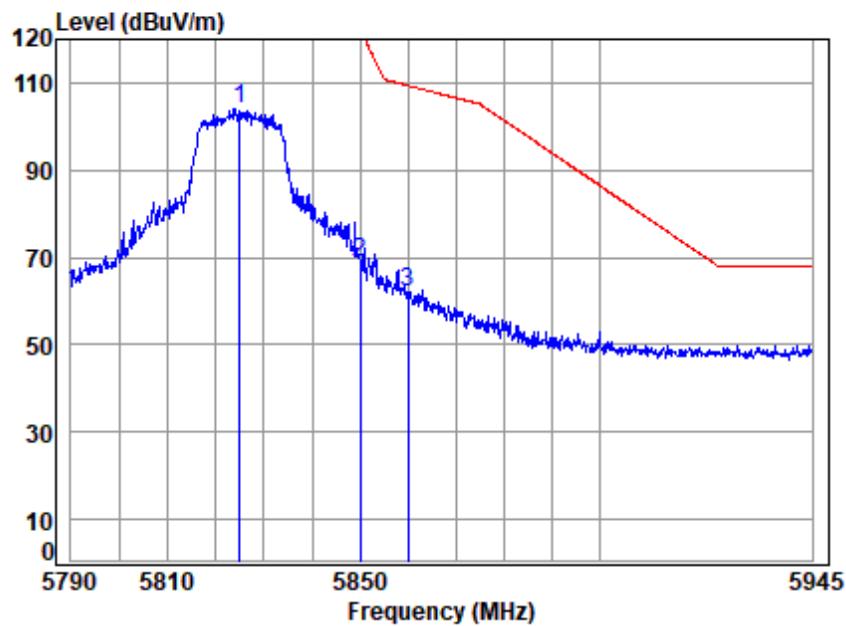
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	5825.00	8.01	34.65	41.34	111.00	112.32	----- peak
2	5850.00	8.03	34.70	41.34	74.81	76.20	122.20 -46.00 peak
3	5860.00	8.04	34.72	41.35	69.36	70.77	109.40 -38.63 peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



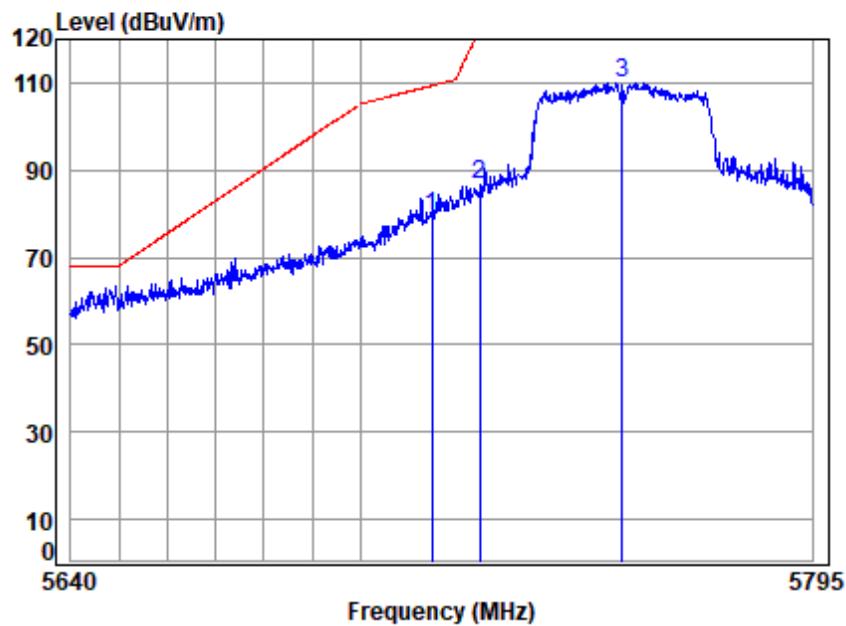
Site : chamber
 Condition: 3m VERTICAL
 Job No : 03030AT
 Mode : 5825 Band edge
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.00	8.01	34.65	41.34	102.80	104.12	-----	-----	peak
2	5850.00	8.03	34.70	41.34	67.69	69.08	122.20	-53.12	peak
3	5860.00	8.04	34.72	41.35	60.78	62.19	109.40	-47.21	peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5755 Band edge
Note : 5G WIFI 11N40

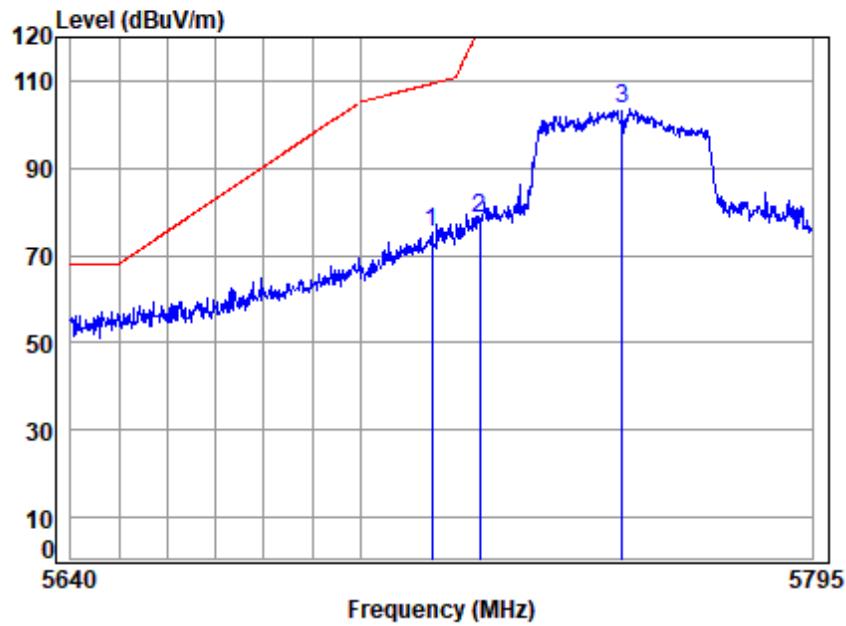
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.91	34.50	41.29	78.49	79.61	109.40	-29.79 peak
2	5725.00	7.92	34.50	41.30	85.76	86.88	122.20	-35.32 peak
3	5755.00	7.94	34.51	41.31	108.92	110.06	-----	----- peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5755 Band edge
Note : 5G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.91	34.50	41.29	74.26	75.38	109.40	-34.02 peak
2	5725.00	7.92	34.50	41.30	77.44	78.56	122.20	-43.64 peak
3	5755.00	7.94	34.51	41.31	102.22	103.36	-----	----- peak

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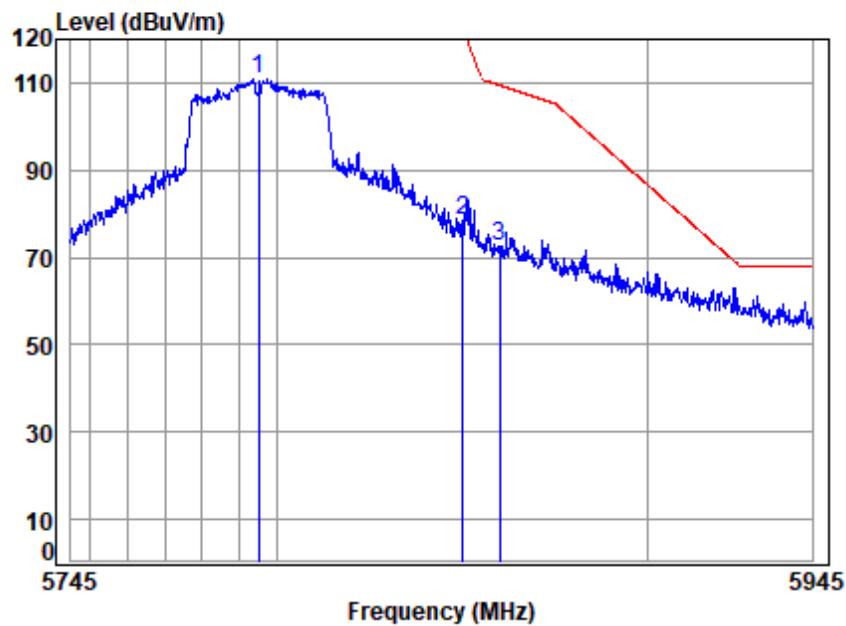
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



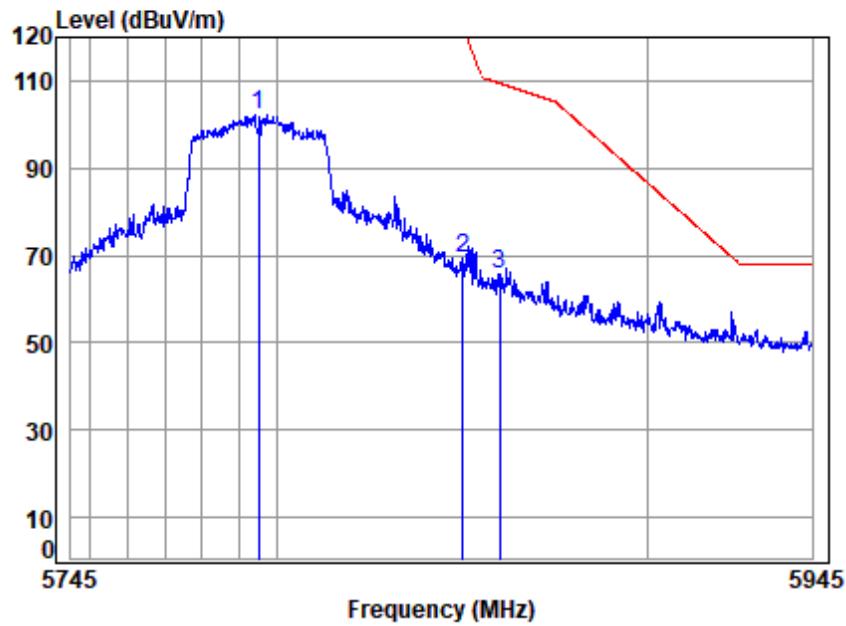
Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5795 Band edge
Note : 5G WIFI 11N40

1	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.00	7.98	34.59	41.32	109.65	110.90	-----	peak
2	5850.00	8.03	34.70	41.34	77.12	78.51	122.20	-43.69 peak
3	5860.00	8.04	34.72	41.35	71.20	72.61	109.40	-36.79 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



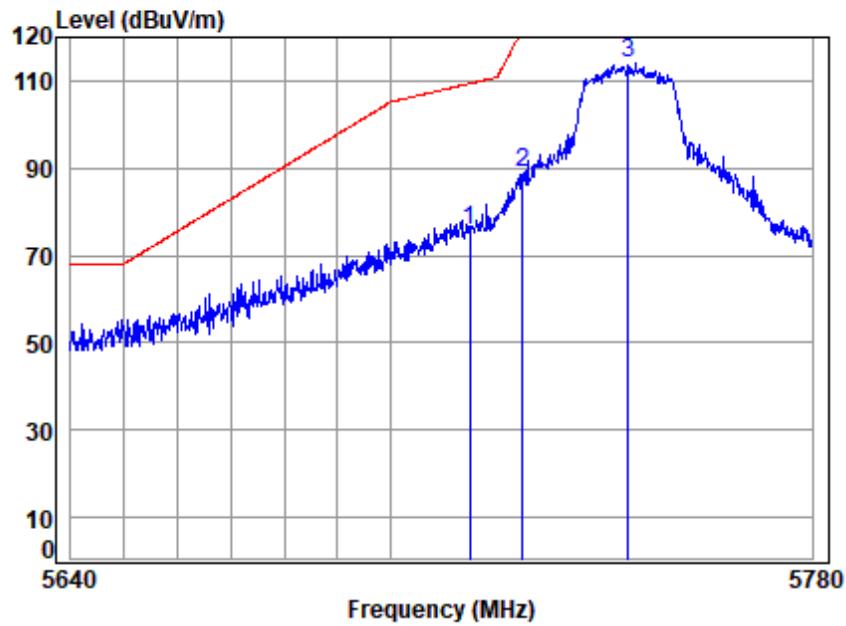
Site : chamber
 Condition: 3m VERTICAL
 Job No : 03030AT
 Mode : 5795 Band edge
 Note : 5G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.00	7.98	34.59	41.32	100.79	102.04	-----	peak
2	5850.00	8.03	34.70	41.34	68.13	69.52	122.20	-52.68 peak
3	5860.00	8.04	34.72	41.35	64.10	65.51	109.40	-43.89 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5745 Band edge
Note : 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.91	34.50	41.29	74.53	75.65	109.40 -33.75 peak
2	5725.00	7.92	34.50	41.30	87.76	88.88	122.20 -33.32 peak
3	5745.00	7.93	34.50	41.30	112.98	114.11	----- peak

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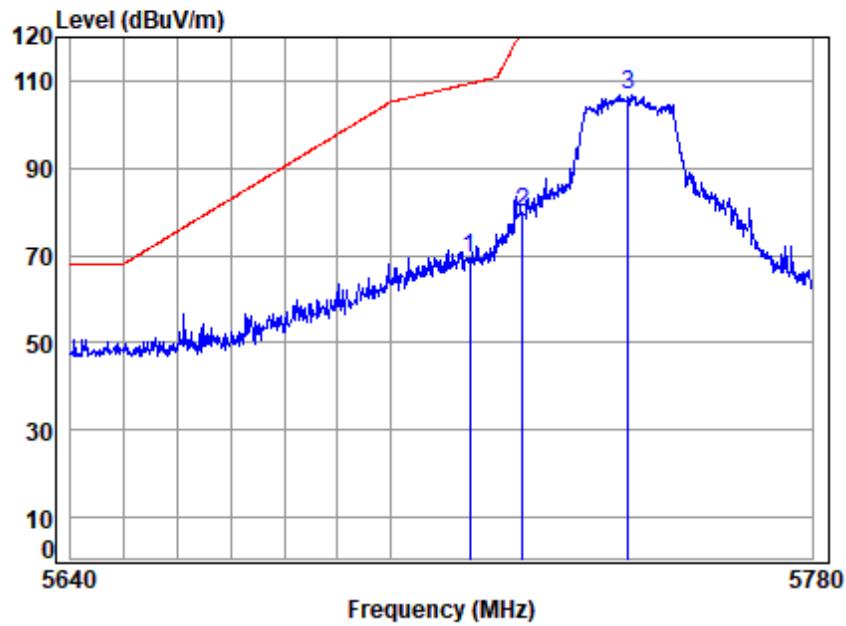
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



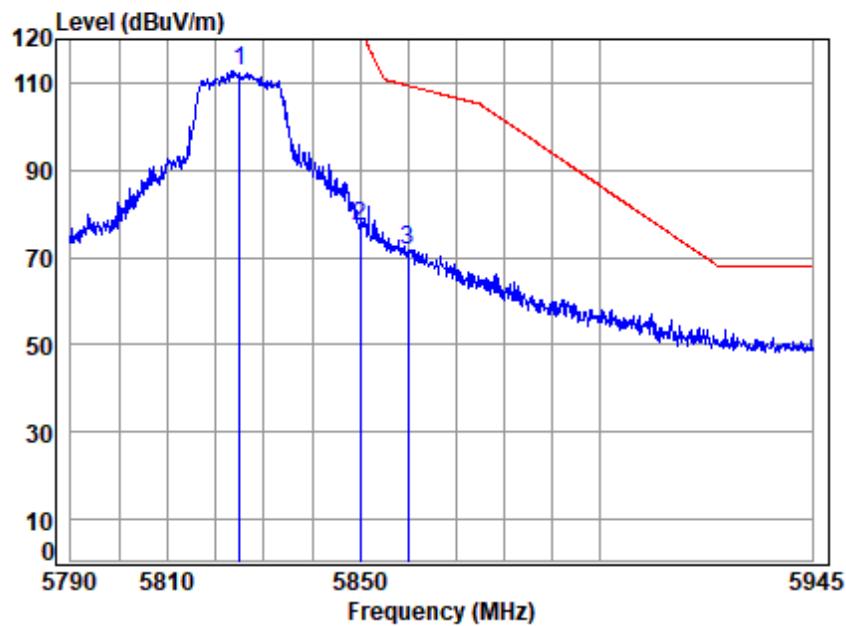
Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5745 Band edge
Note : 5G WIFI 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.91	34.50	41.29	68.17	69.29	109.40	-40.11 peak
2	5725.00	7.92	34.50	41.30	78.57	79.69	122.20	-42.51 peak
3	5745.00	7.93	34.50	41.30	105.58	106.71	-----	----- peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5825 Band edge
Note : 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.00	8.01	34.65	41.34	111.32	112.64	----- peak
2	5850.00	8.03	34.70	41.34	75.71	77.10	122.20 -45.10 peak
3	5860.00	8.04	34.72	41.35	70.28	71.69	109.40 -37.71 peak

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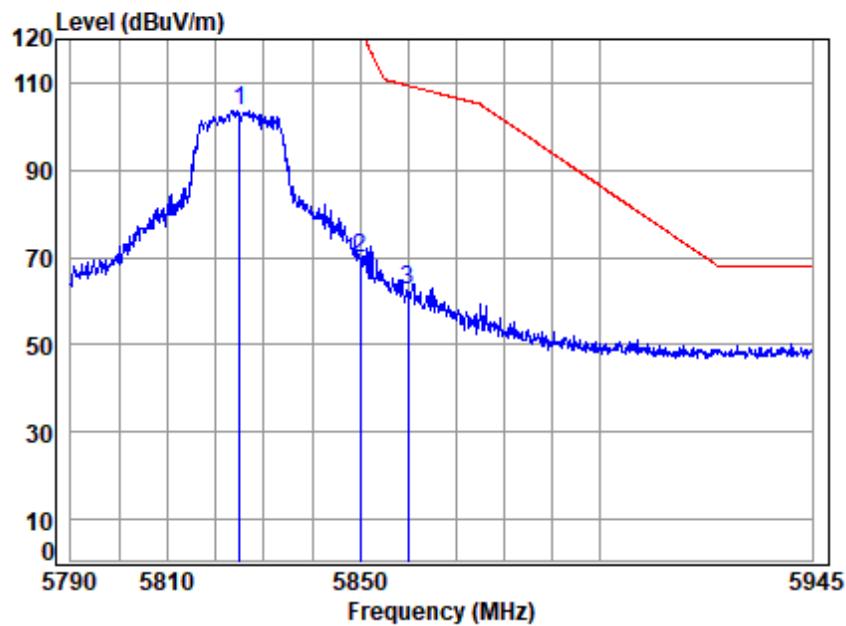
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5825 Band edge
Note : 5G WIFI 11AC20

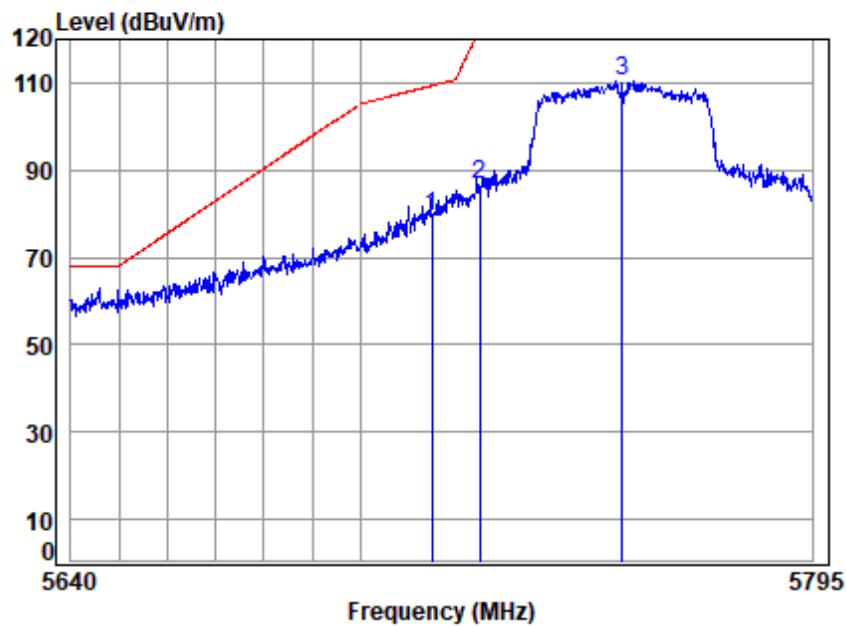
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	5825.00	8.01	34.65	41.34	102.41	103.73	-----	----- peak
2	5850.00	8.03	34.70	41.34	68.29	69.68	122.20	-52.52 peak
3	5860.00	8.04	34.72	41.35	61.18	62.59	109.40	-46.81 peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5755 Band edge
Note : 5G WIFI 11AC40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.00	7.91	34.50	41.29	78.31	79.43	109.40	-29.97	peak
2	5725.00	7.92	34.50	41.30	85.45	86.57	122.20	-35.63	peak
3	5755.00	7.94	34.51	41.31	109.22	110.36	-----	-----	peak

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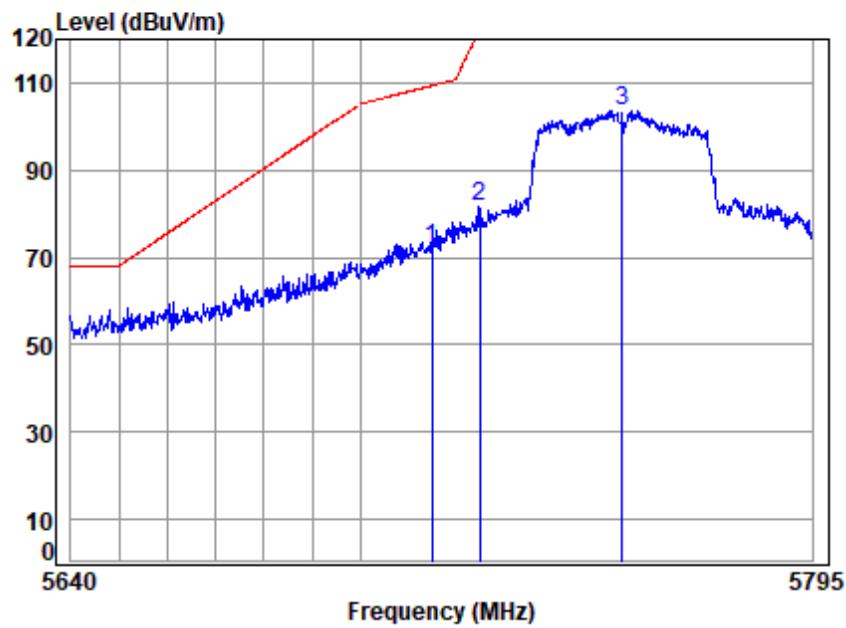
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5755 Band edge
Note : 5G WIFI 11AC40

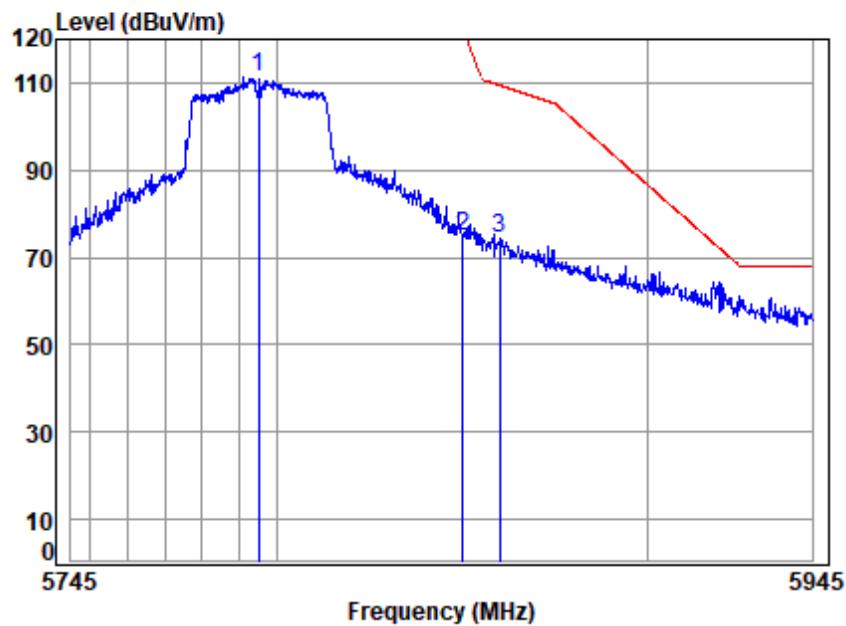
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.91	34.50	41.29	70.85	71.97	109.40	-37.43 peak
2	5725.00	7.92	34.50	41.30	80.69	81.81	122.20	-40.39 peak
3	5755.00	7.94	34.51	41.31	102.45	103.59	-----	----- peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5795 Band edge
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.00	7.98	34.59	41.32	109.99	111.24	-----	----- peak
2	5850.00	8.03	34.70	41.34	73.63	75.02	122.20	-47.18 peak
3	5860.00	8.04	34.72	41.35	72.95	74.36	109.40	-35.04 peak

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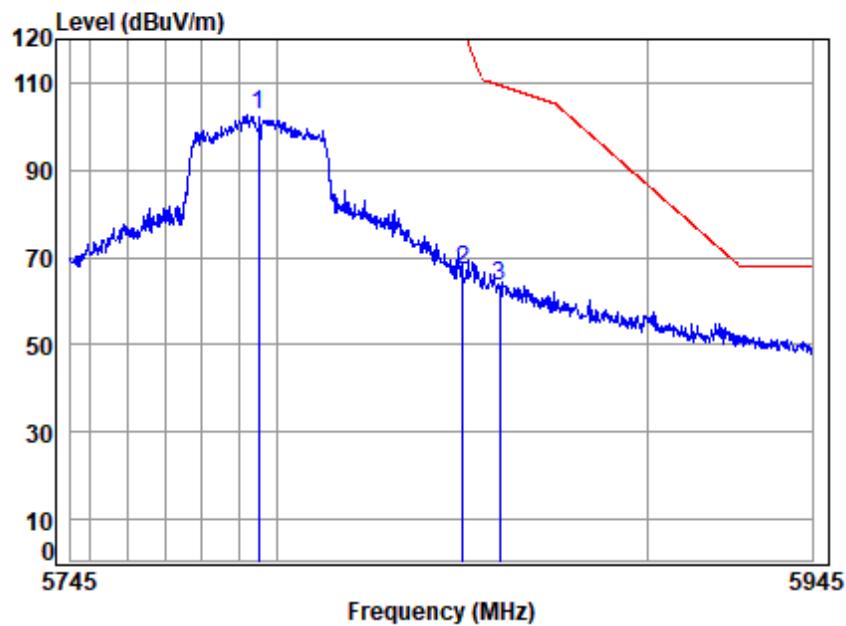
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5795 Band edge
Note : 5G WIFI 11AC40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Factor	Level	Level	
1	5795.00	7.98	34.59	41.32	101.36	102.61	-----	----- peak
2	5850.00	8.03	34.70	41.34	65.49	66.88	122.20	-55.32 peak
3	5860.00	8.04	34.72	41.35	62.11	63.52	109.40	-45.88 peak

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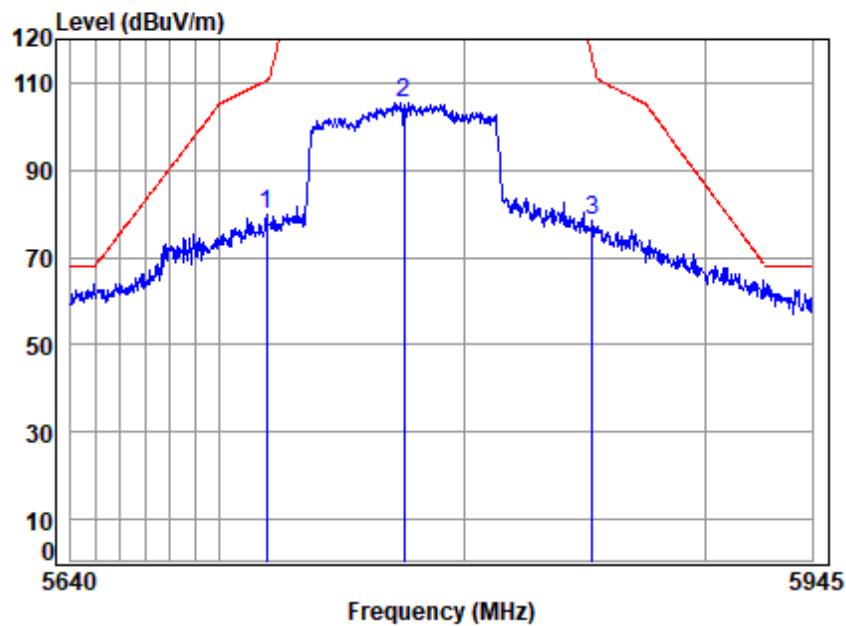
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03030AT
Mode : 5775 Band edge
Note : 5G WIFI 11AC80

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5718.97	7.91	34.50	41.29	78.50	79.62	110.51	-30.89	peak
2	5775.00	7.96	34.55	41.32	104.35	105.54	-----	-----	peak
3	5852.73	8.03	34.71	41.35	76.88	78.27	115.97	-37.70	peak

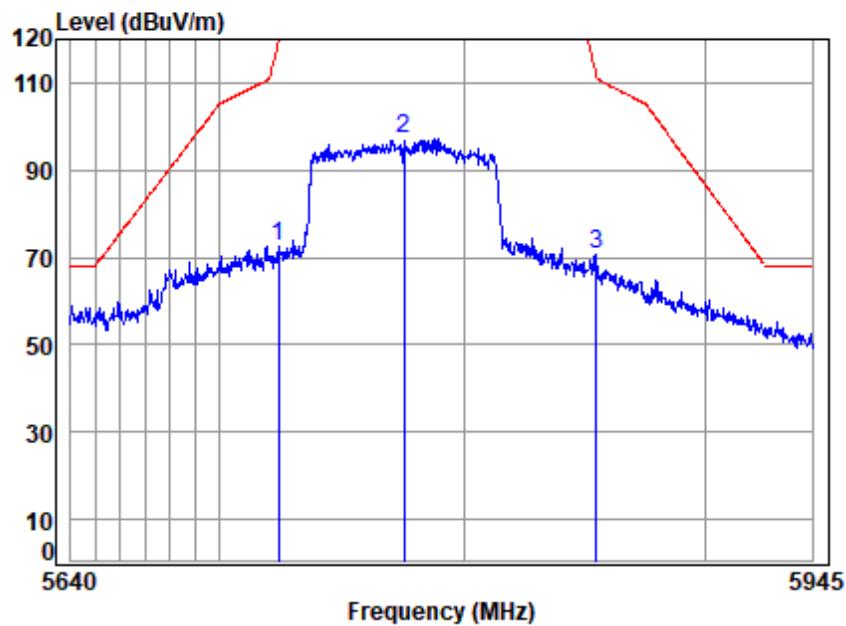
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03030AT
Mode : 5775 Band edge
Note : 5G WIFI 11AC80

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5723.79	7.91	34.50	41.30	71.59	72.70	119.44	-46.74 peak
2	5775.00	7.96	34.55	41.32	96.01	97.20	-----	----- peak
3	5854.58	8.03	34.71	41.35	69.11	70.50	111.75	-41.25 peak

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7.10 Frequency Stability

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

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

7.10.1 E.U.T. Operation

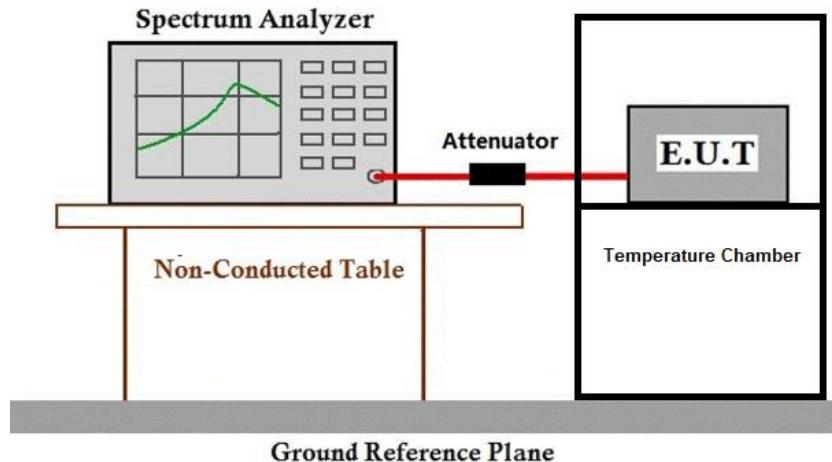
Operating Environment:

Temperature: 24.7 °C Humidity: 42.3 % RH Atmospheric Pressure: 1000 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Setup Photo for SZCR2309003030AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2309003030AT



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10 Appendix

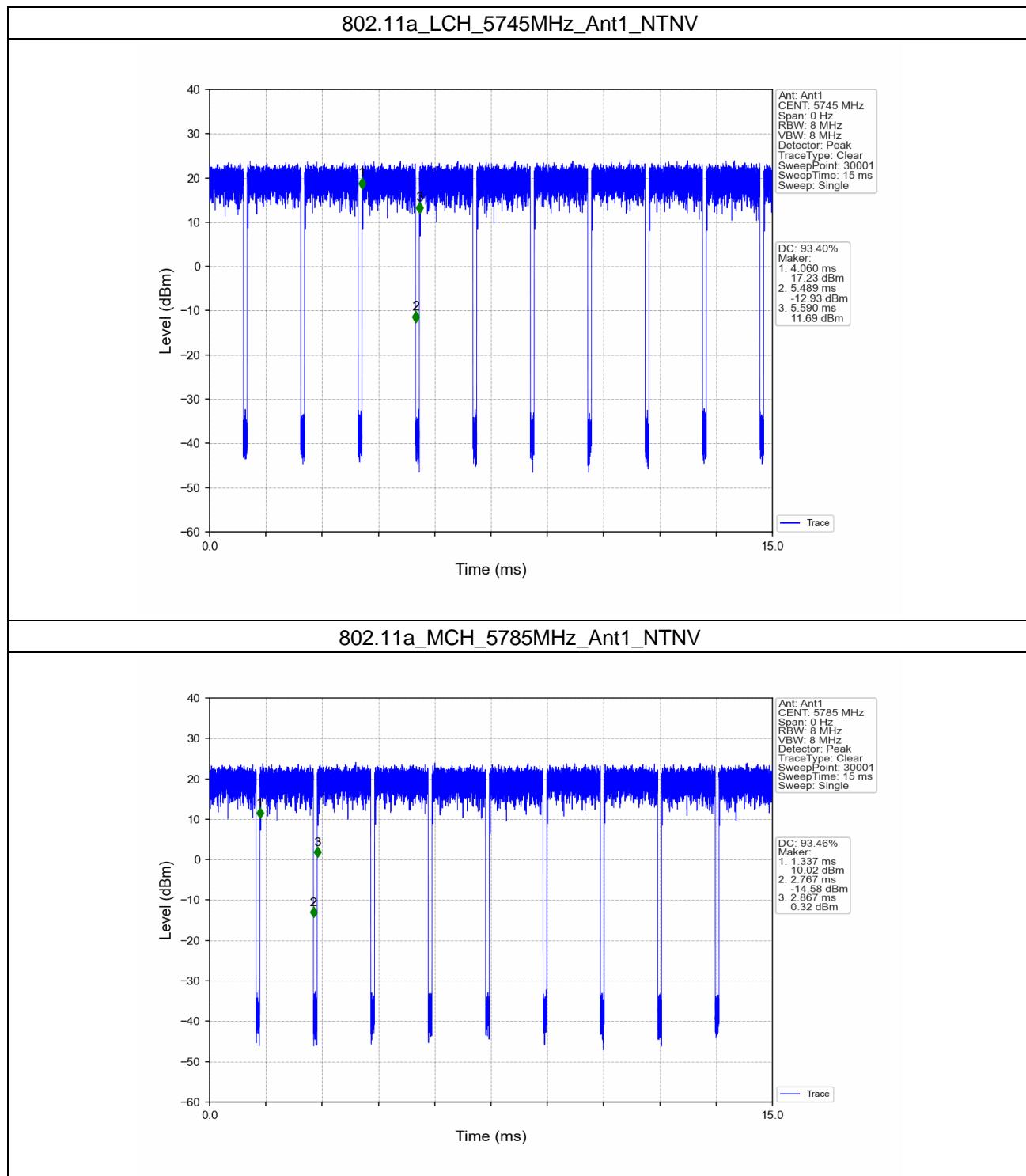
1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

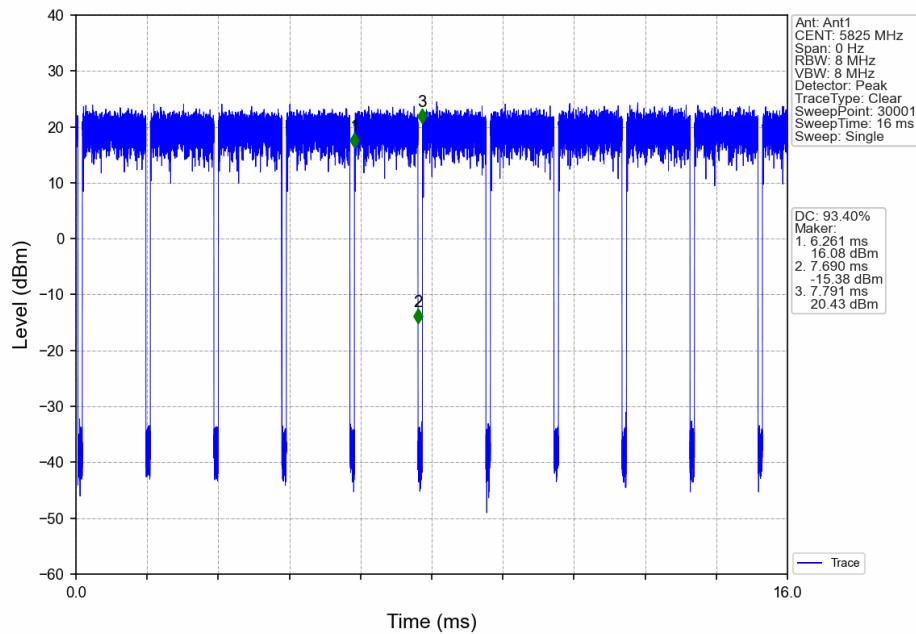
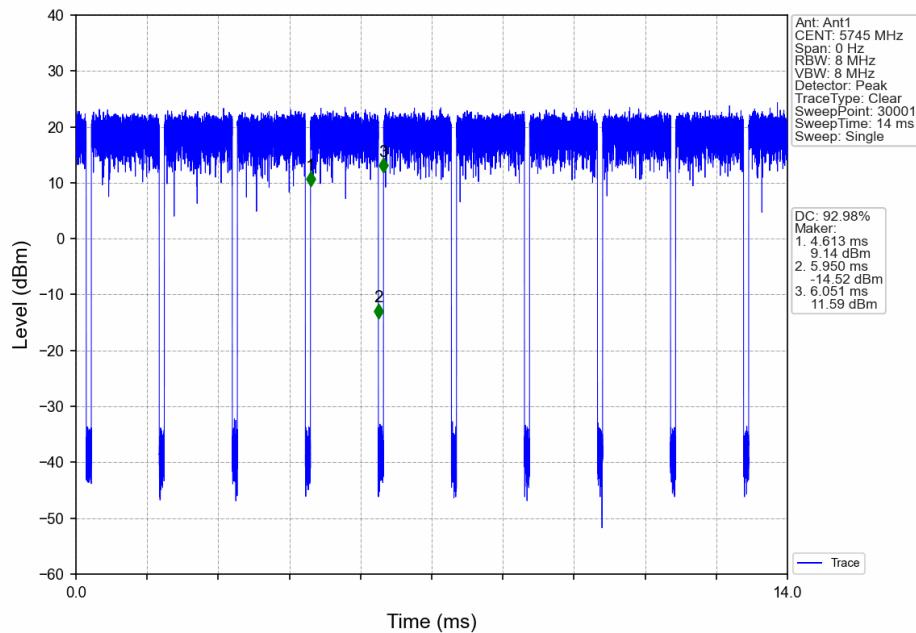
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	1.429	1.530	93.40	0.30	0.03
		5785	1.429	1.529	93.46	0.29	0.03
		5825	1.429	1.530	93.40	0.30	0.03
802.11n (HT20)	SISO	5745	1.337	1.438	92.98	0.32	0.03
		5785	1.337	1.438	92.98	0.32	0.03
		5825	1.337	1.437	93.04	0.31	0.03
802.11n (HT40)	SISO	5755	0.664	0.765	86.80	0.61	0.07
		5795	0.664	0.765	86.80	0.61	0.03
802.11ac (VHT20)	SISO	5745	1.345	1.445	93.08	0.31	0.06
		5785	1.345	1.446	93.02	0.31	0.07
		5825	1.345	1.446	93.02	0.31	0.07
802.11ac (VHT40)	SISO	5755	0.670	0.770	87.01	0.60	0.04
		5795	0.668	0.769	86.87	0.61	0.03
802.11ac (VHT80)	SISO	5775	0.338	0.434	77.88	1.09	0.09



1.1.2 Test Graph

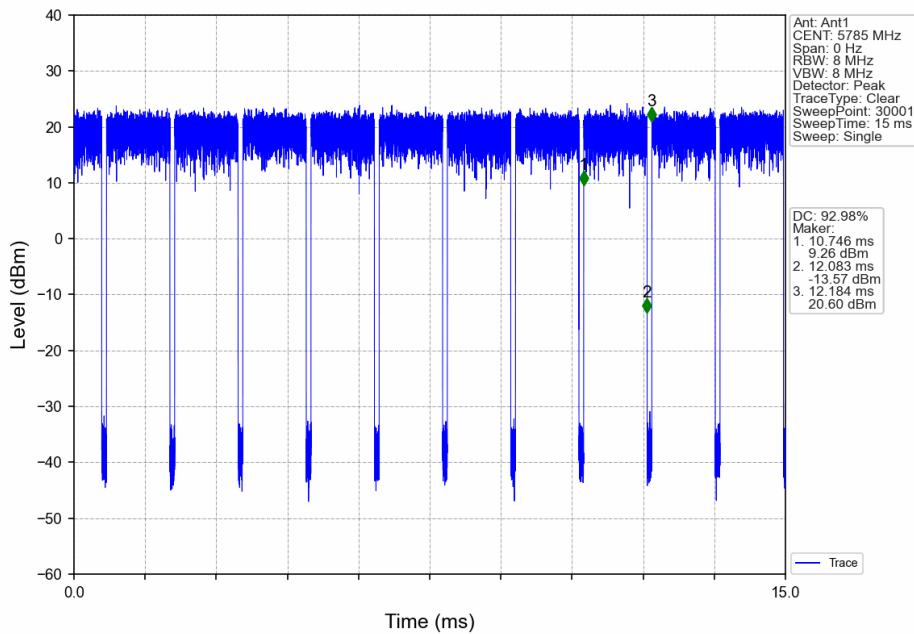
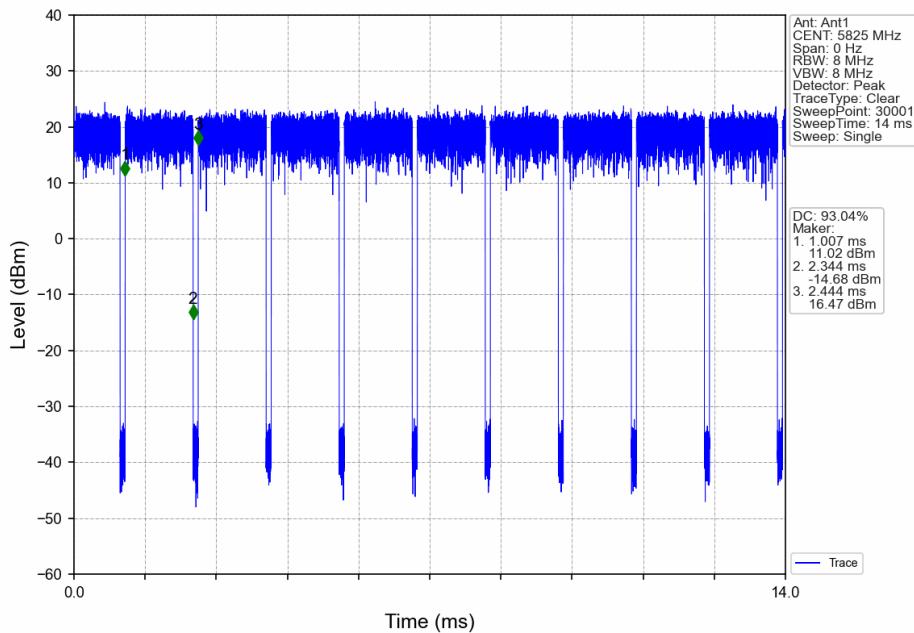
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802.11a_HCH_5825MHz_Ant1_NTNV**802.11n(HT20)_LCH_5745MHz_Ant1_NTNV**

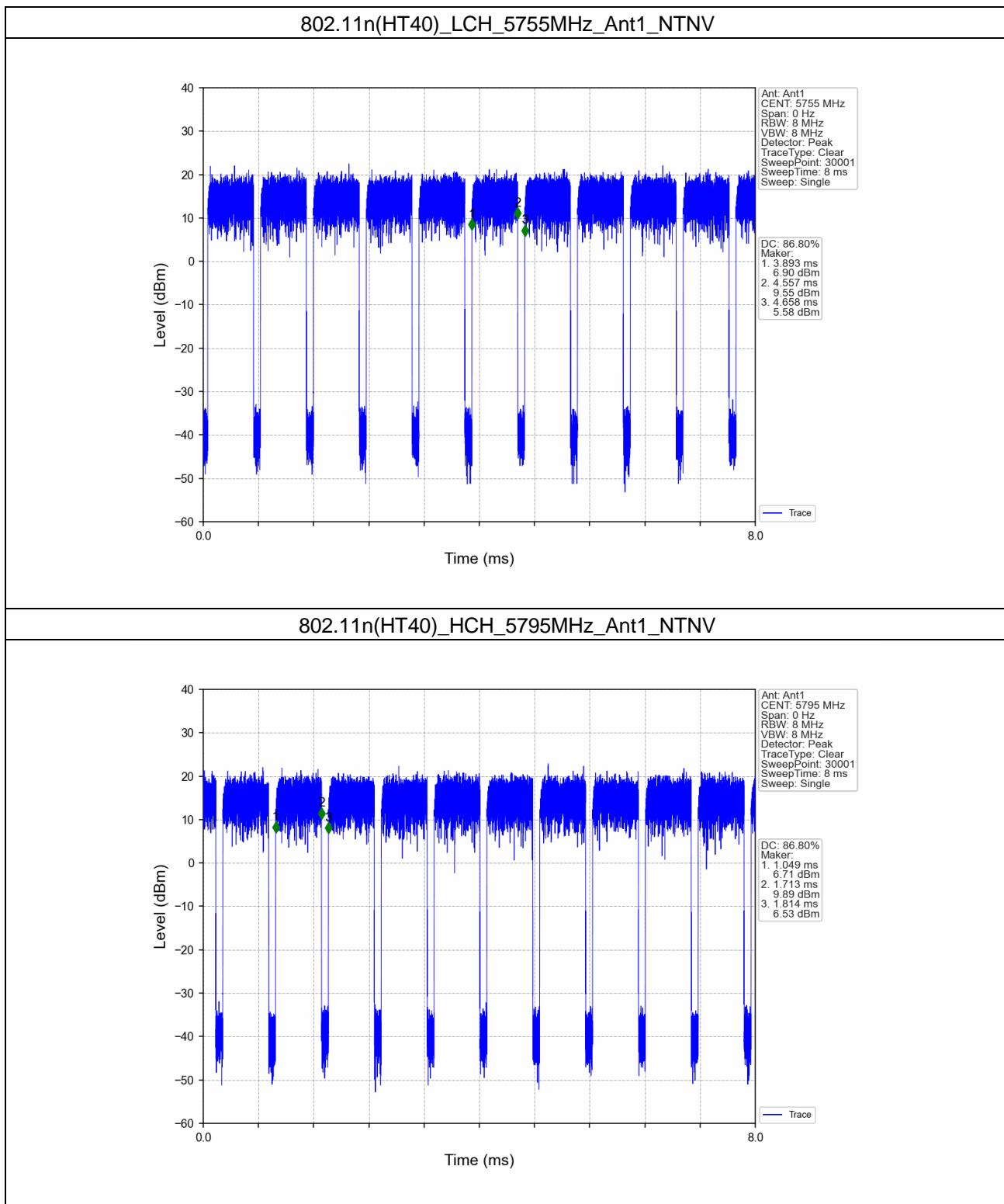
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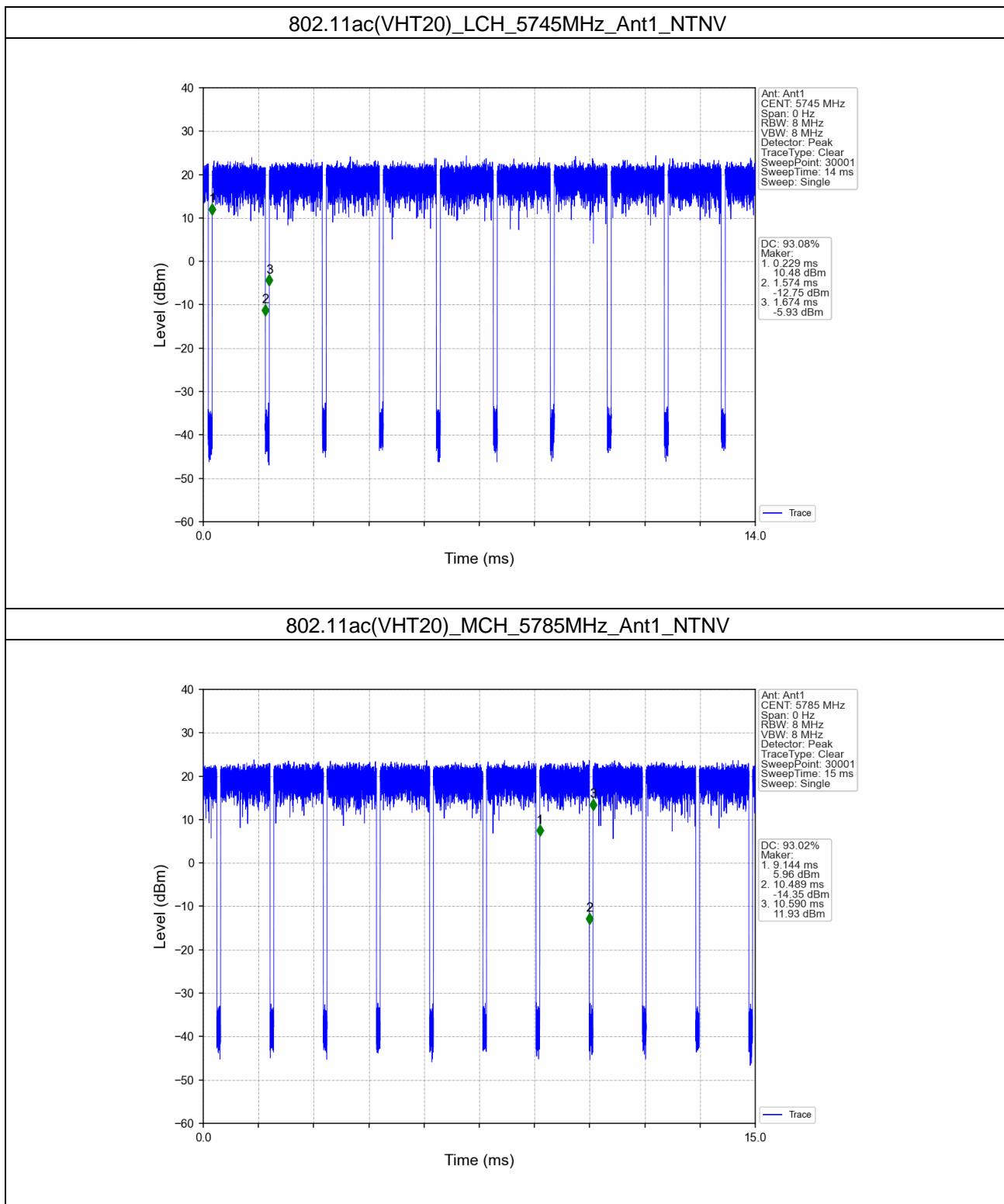
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV**802.11n(HT20)_HCH_5825MHz_Ant1_NTNV**

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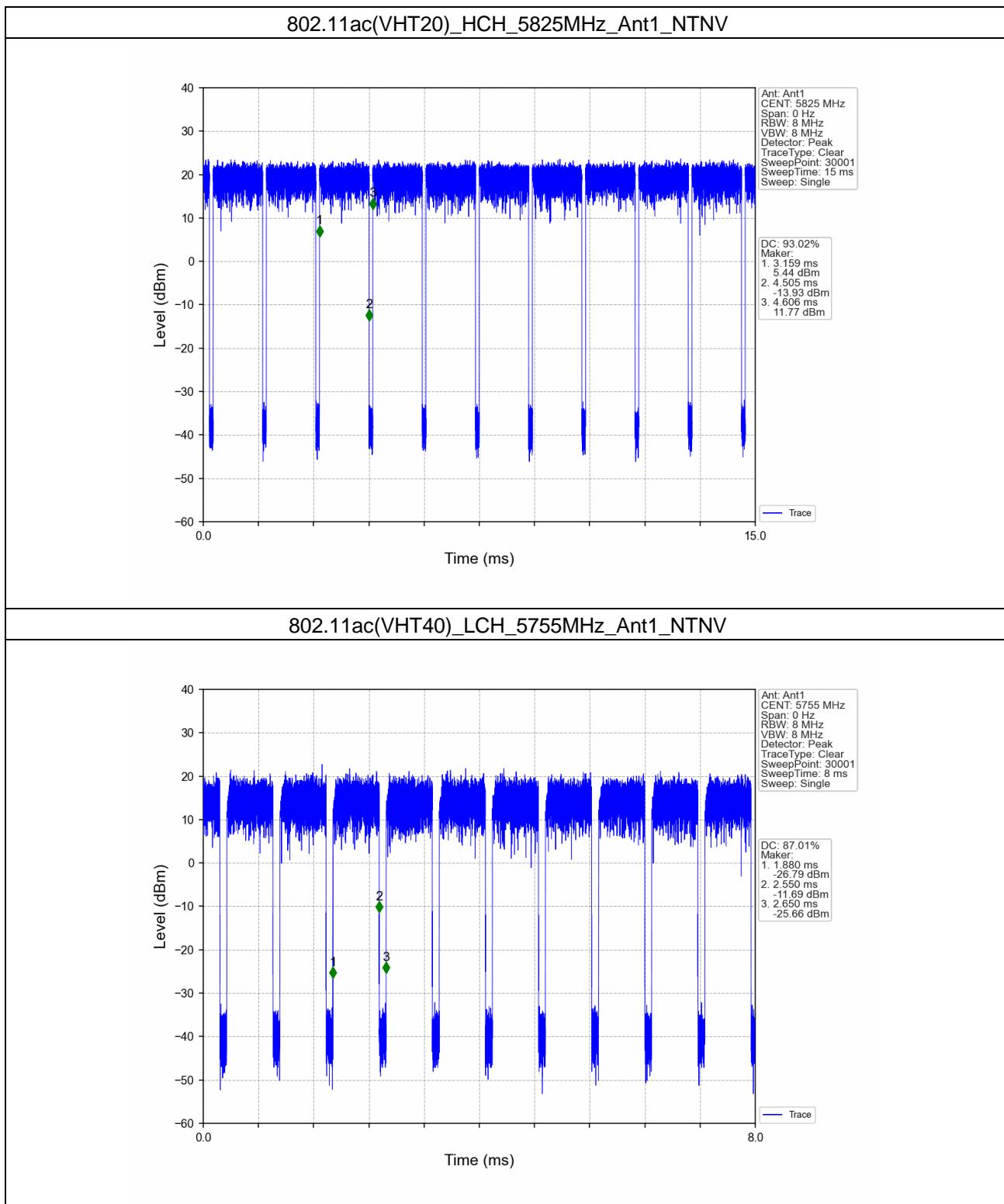
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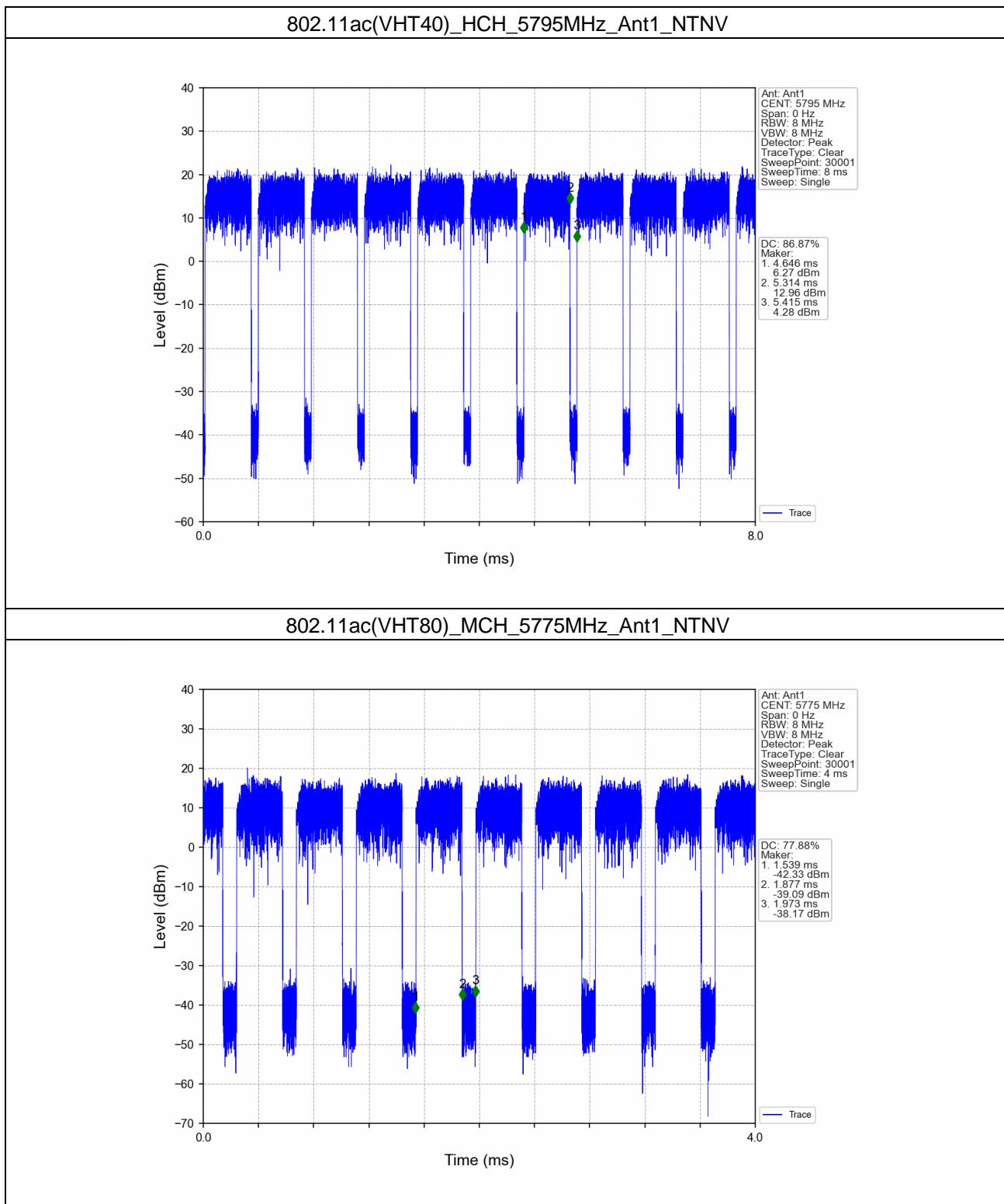
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5745	1	23.564	Pass
		5785	1	21.932	Pass
		5825	1	22.350	Pass
802.11n (HT20)	SISO	5745	1	22.343	Pass
		5785	1	22.293	Pass
		5825	1	22.105	Pass
802.11n (HT40)	SISO	5755	1	45.279	Pass
		5795	1	43.230	Pass
802.11ac (VHT20)	SISO	5745	1	22.933	Pass
		5785	1	21.806	Pass
		5825	1	21.882	Pass
802.11ac (VHT40)	SISO	5755	1	40.646	Pass
		5795	1	41.204	Pass
802.11ac (VHT80)	SISO	5775	1	82.641	Pass

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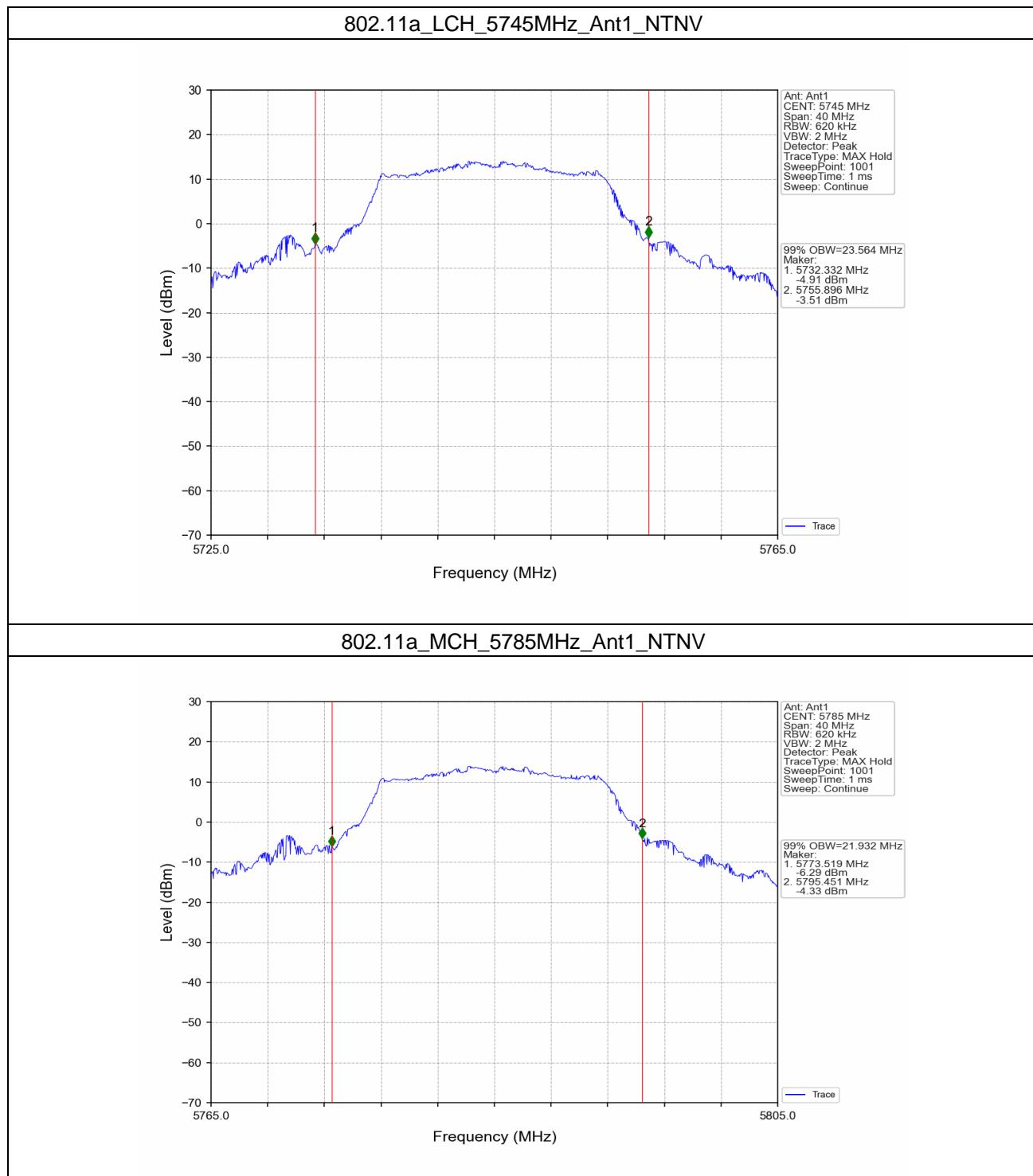
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2.1.2 Test Graph

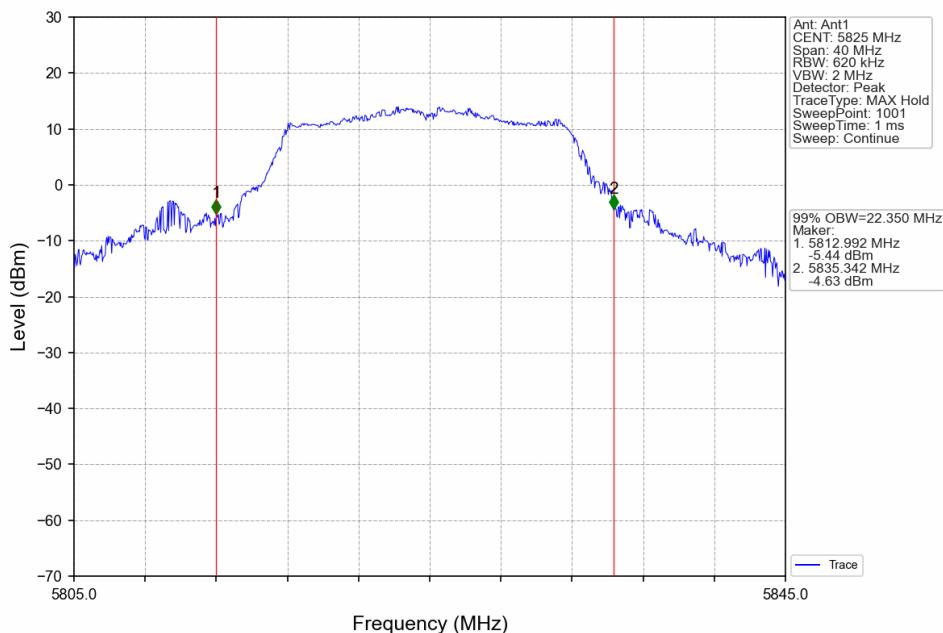
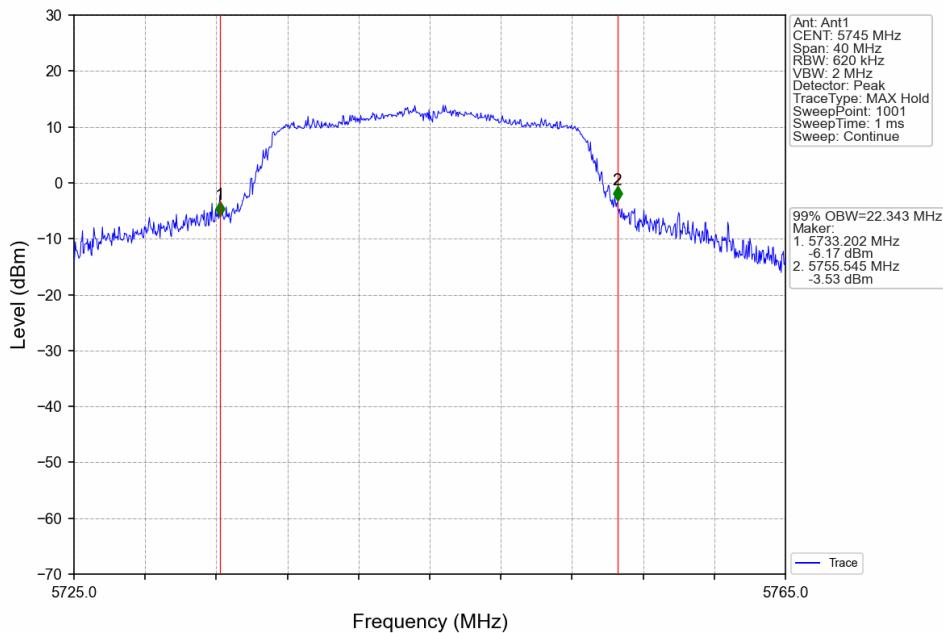
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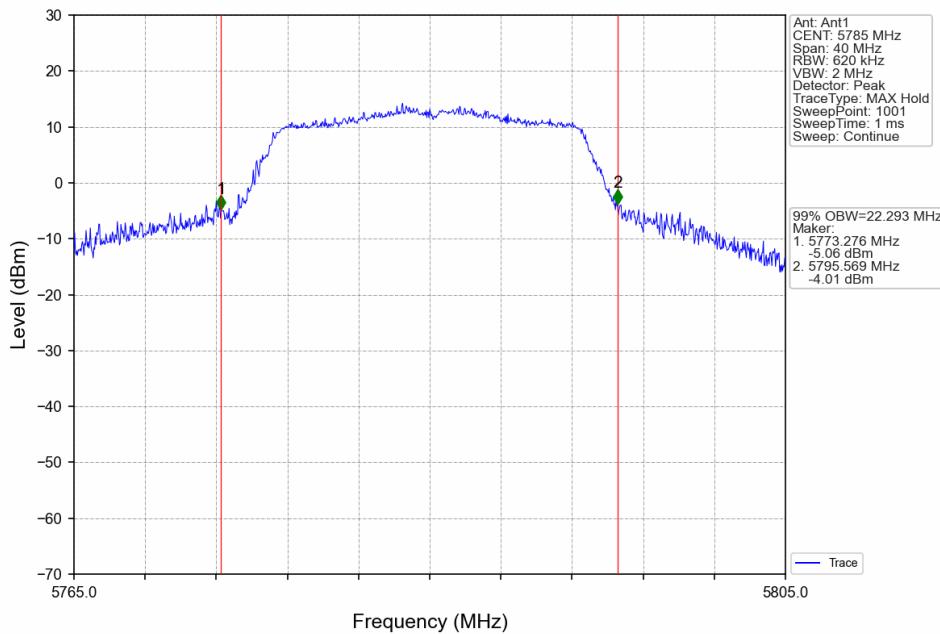
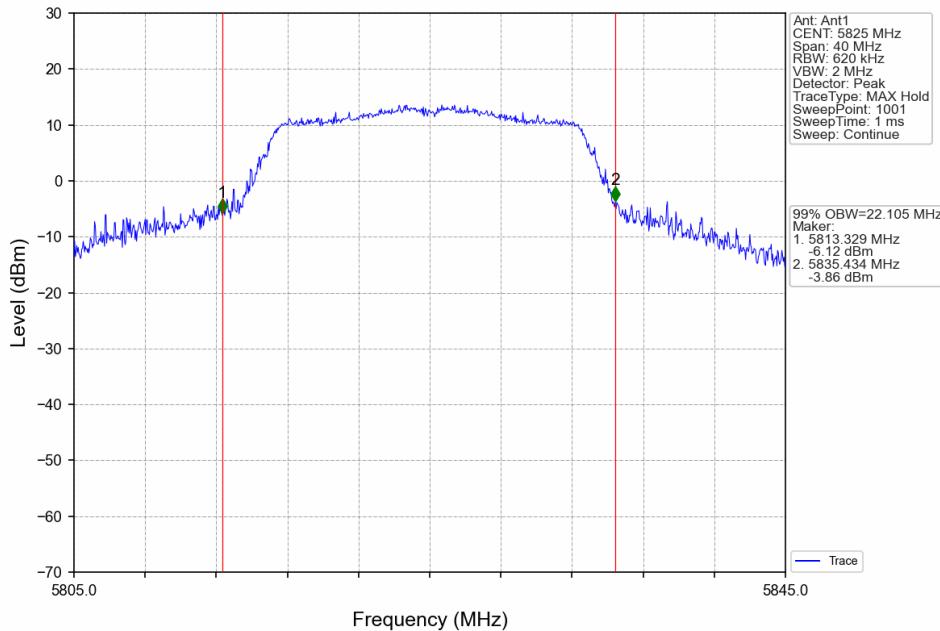
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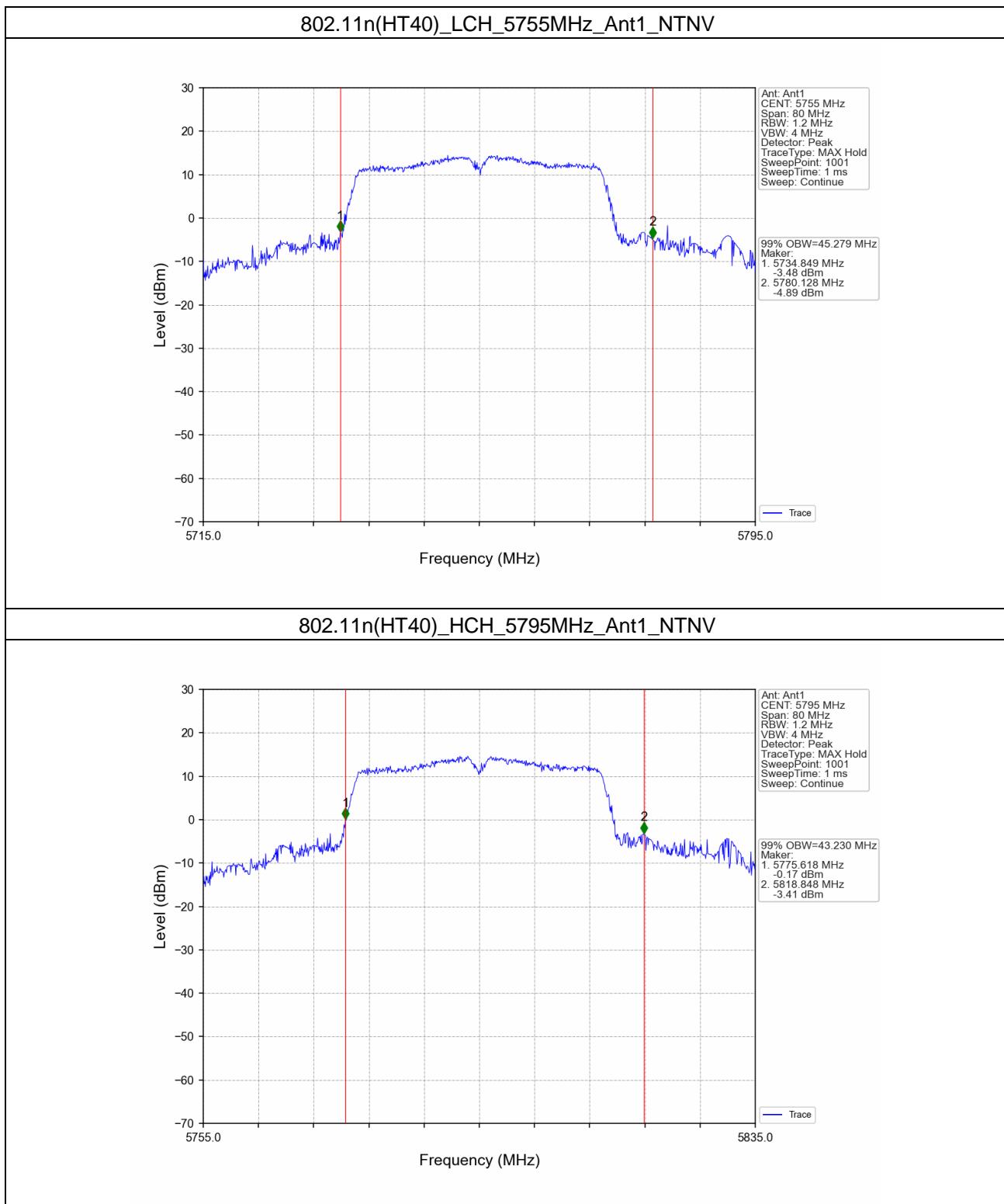
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV**802.11n(HT20)_HCH_5825MHz_Ant1_NTNV**

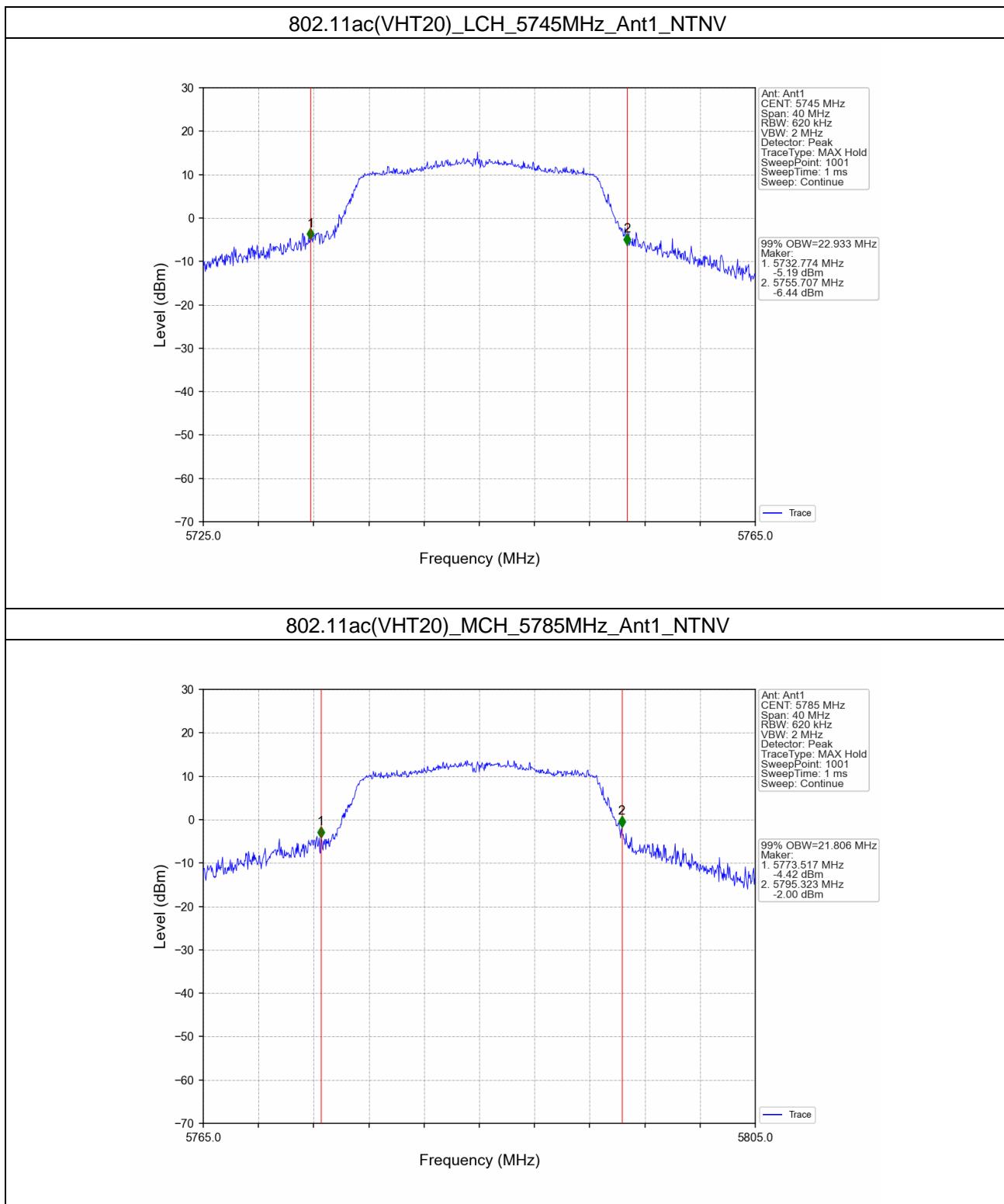
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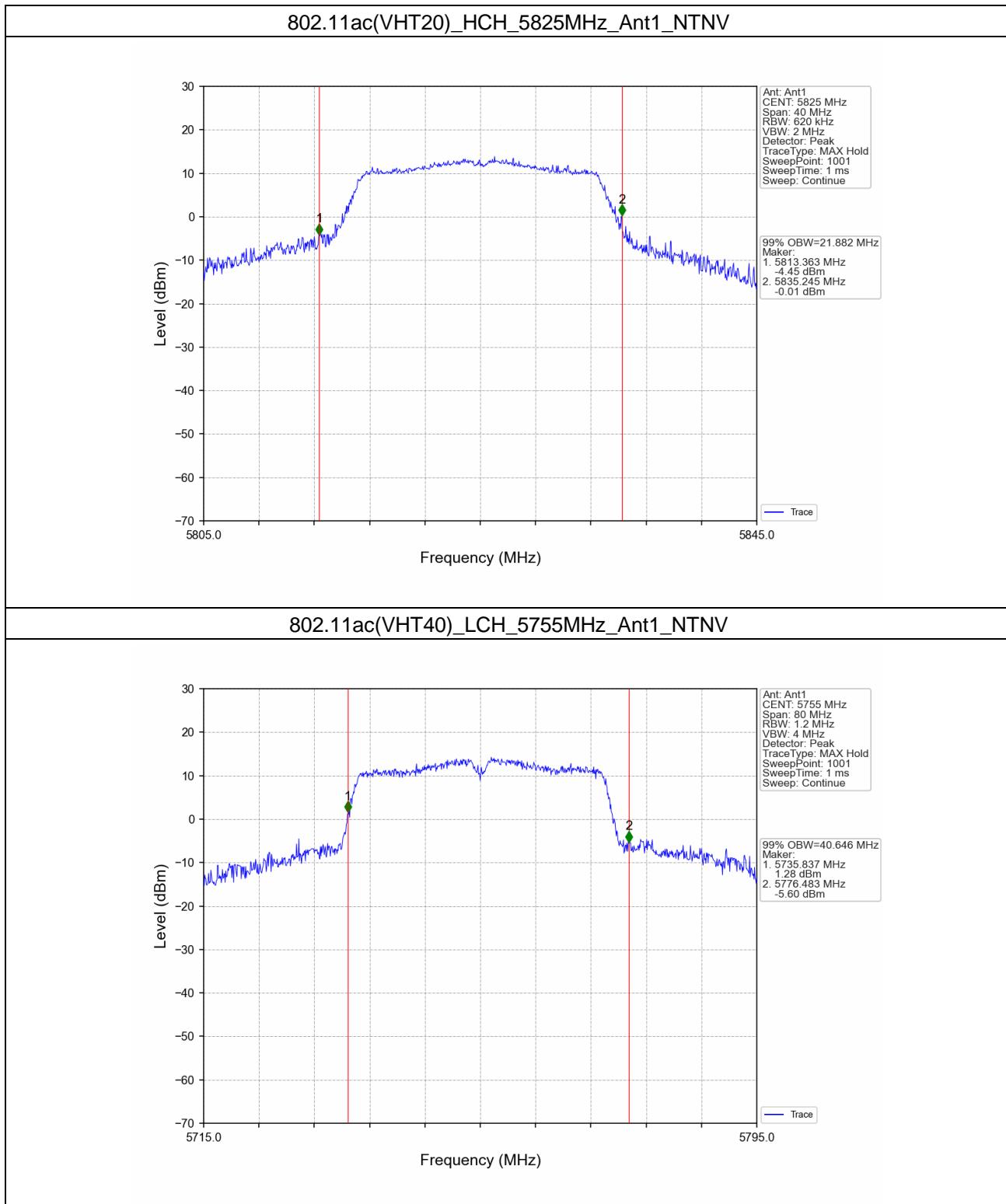
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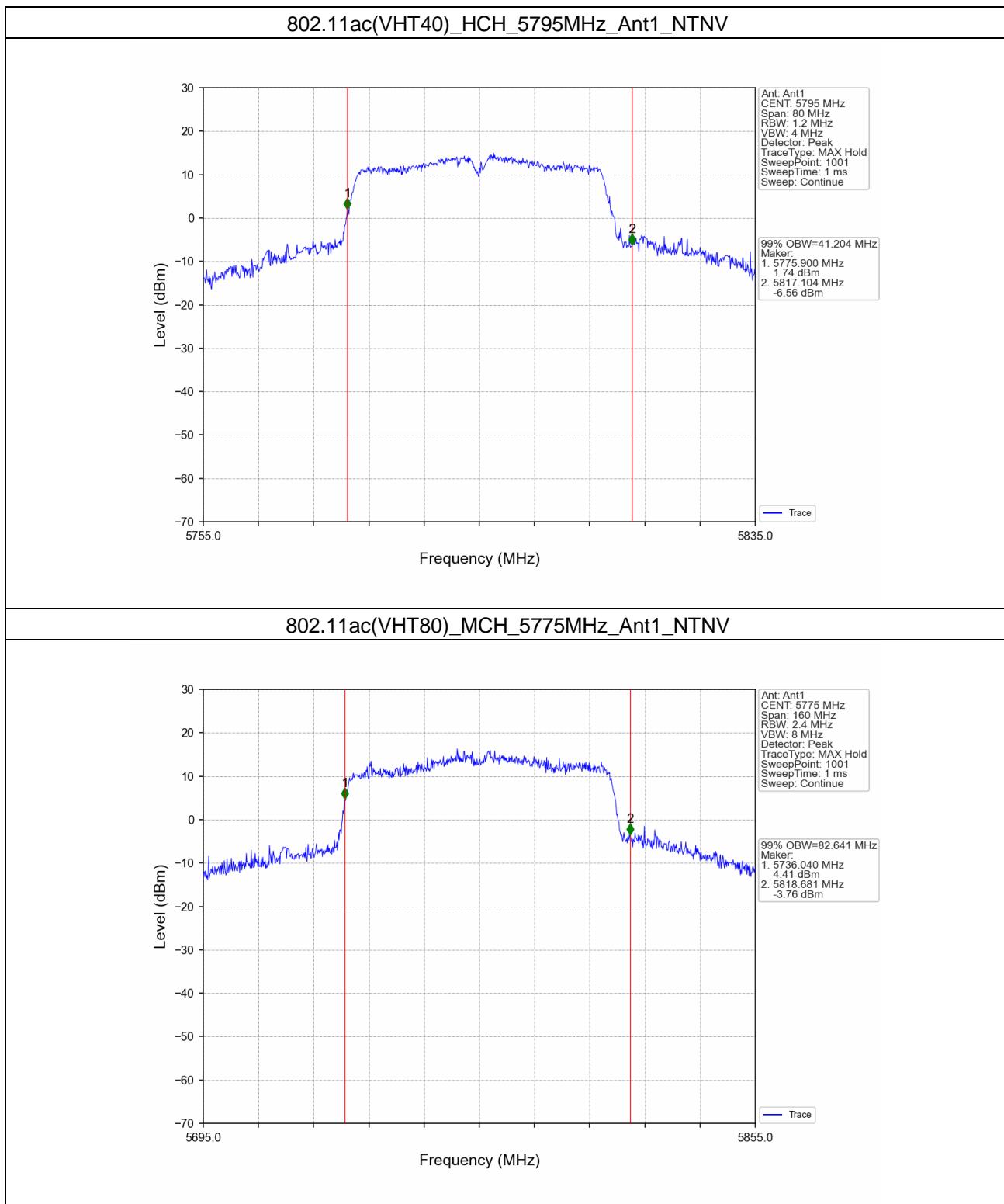
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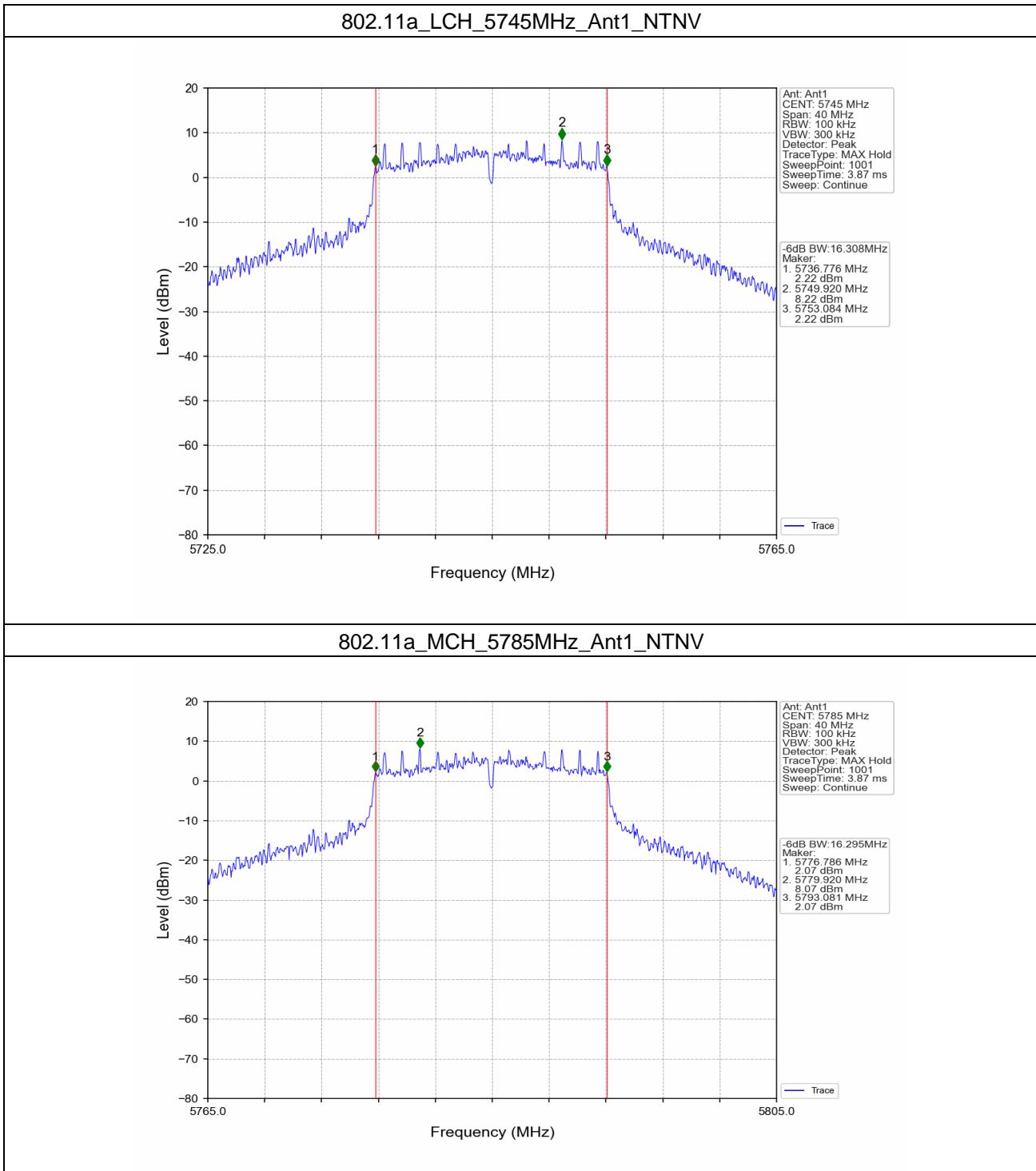
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.308	>=0.5	Pass
		5785	1	16.295	>=0.5	Pass
		5825	1	16.078	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.072	>=0.5	Pass
		5785	1	16.788	>=0.5	Pass
		5825	1	16.931	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	35.541	>=0.5	Pass
		5795	1	35.487	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	16.934	>=0.5	Pass
		5785	1	16.916	>=0.5	Pass
		5825	1	16.431	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.674	>=0.5	Pass
		5795	1	35.514	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.213	>=0.5	Pass



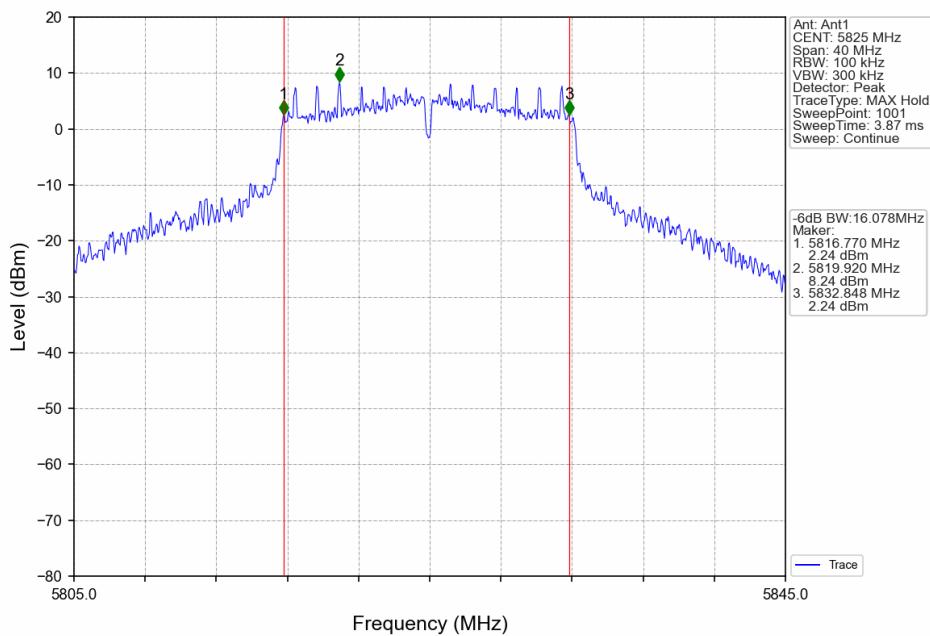
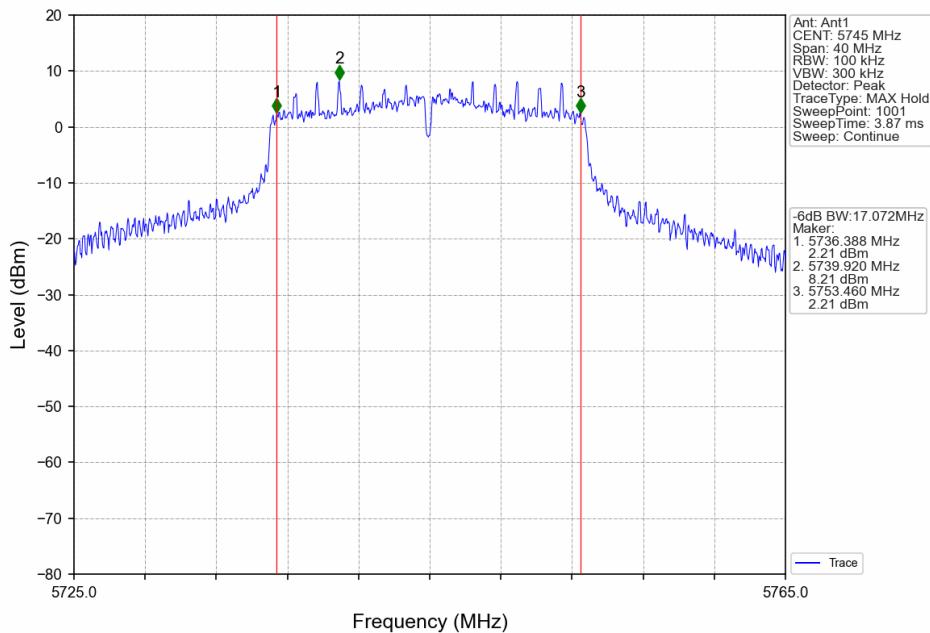
2.2.2 Test Graph

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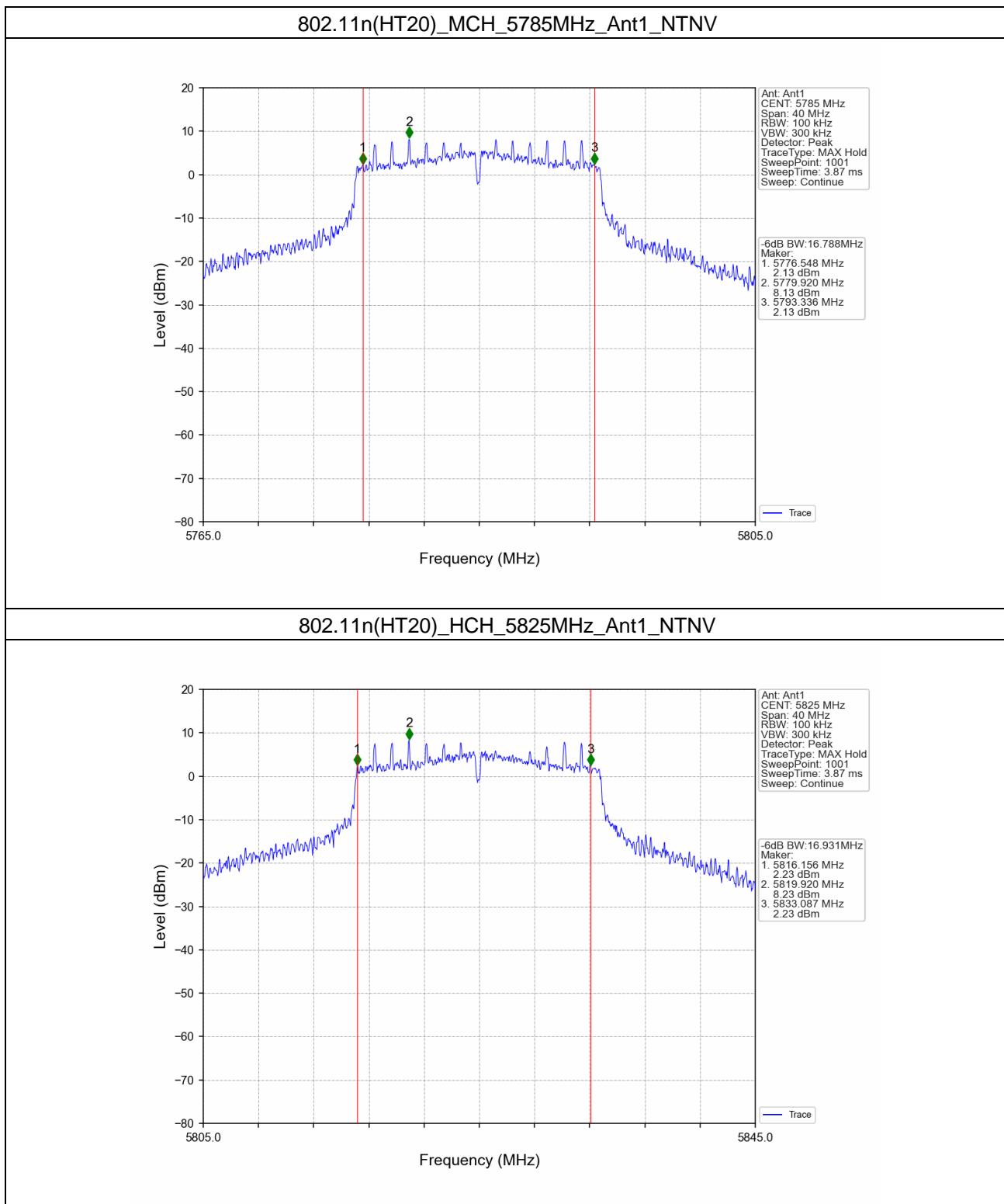


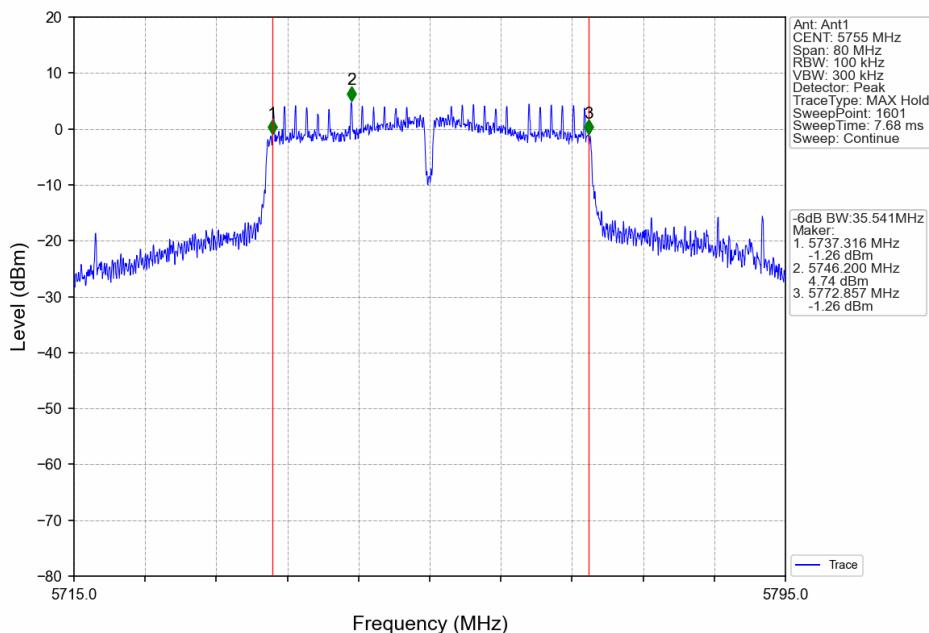
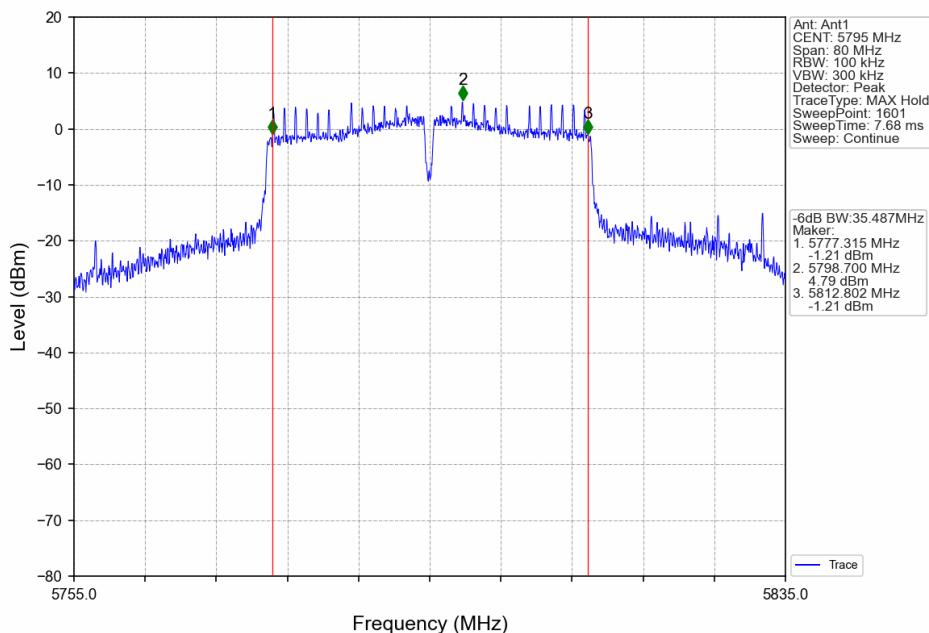
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802.11a_HCH_5825MHz_Ant1_NTNV**802.11n(HT20)_LCH_5745MHz_Ant1_NTNV**

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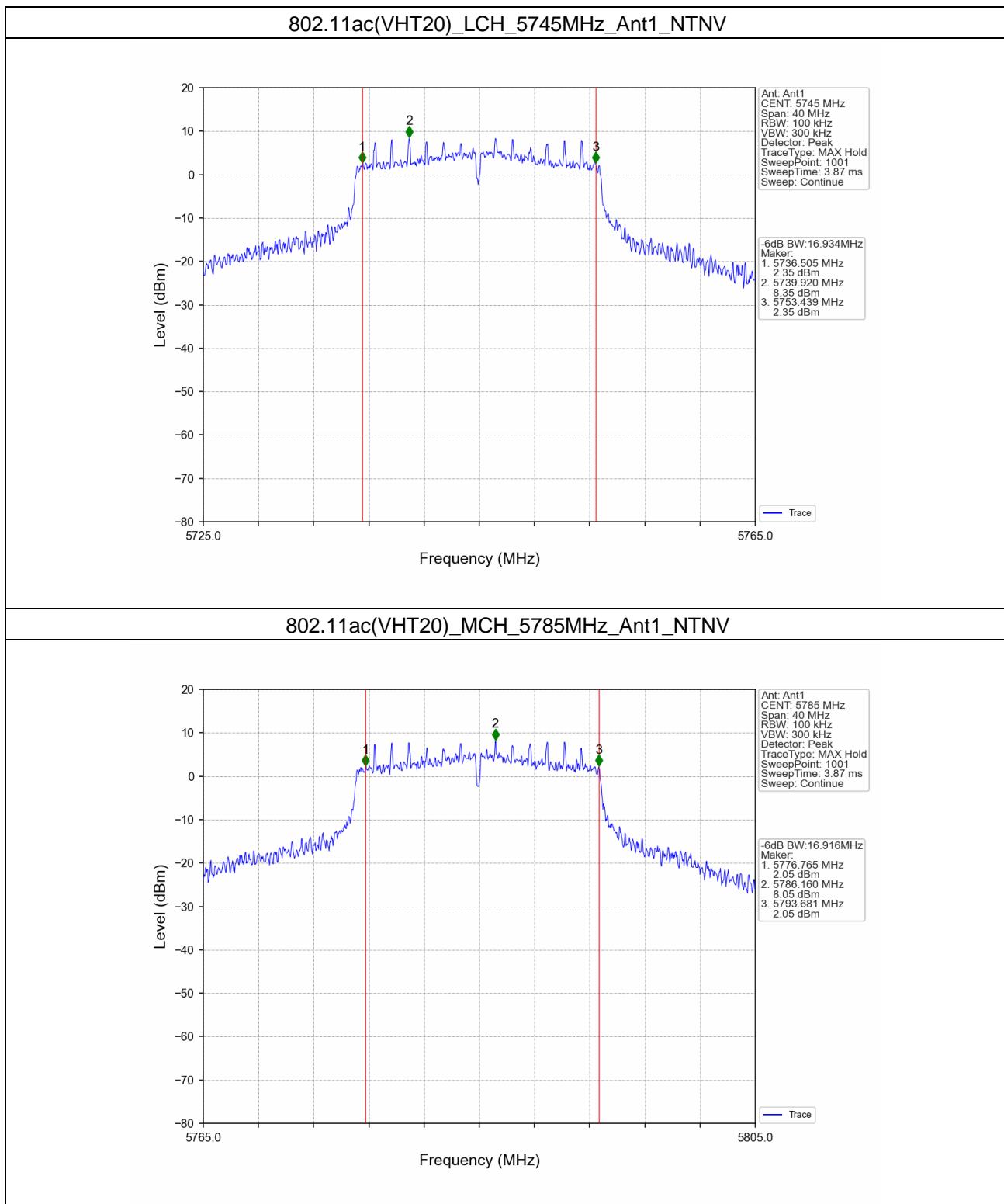
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV**802.11n(HT40)_HCH_5795MHz_Ant1_NTNV**

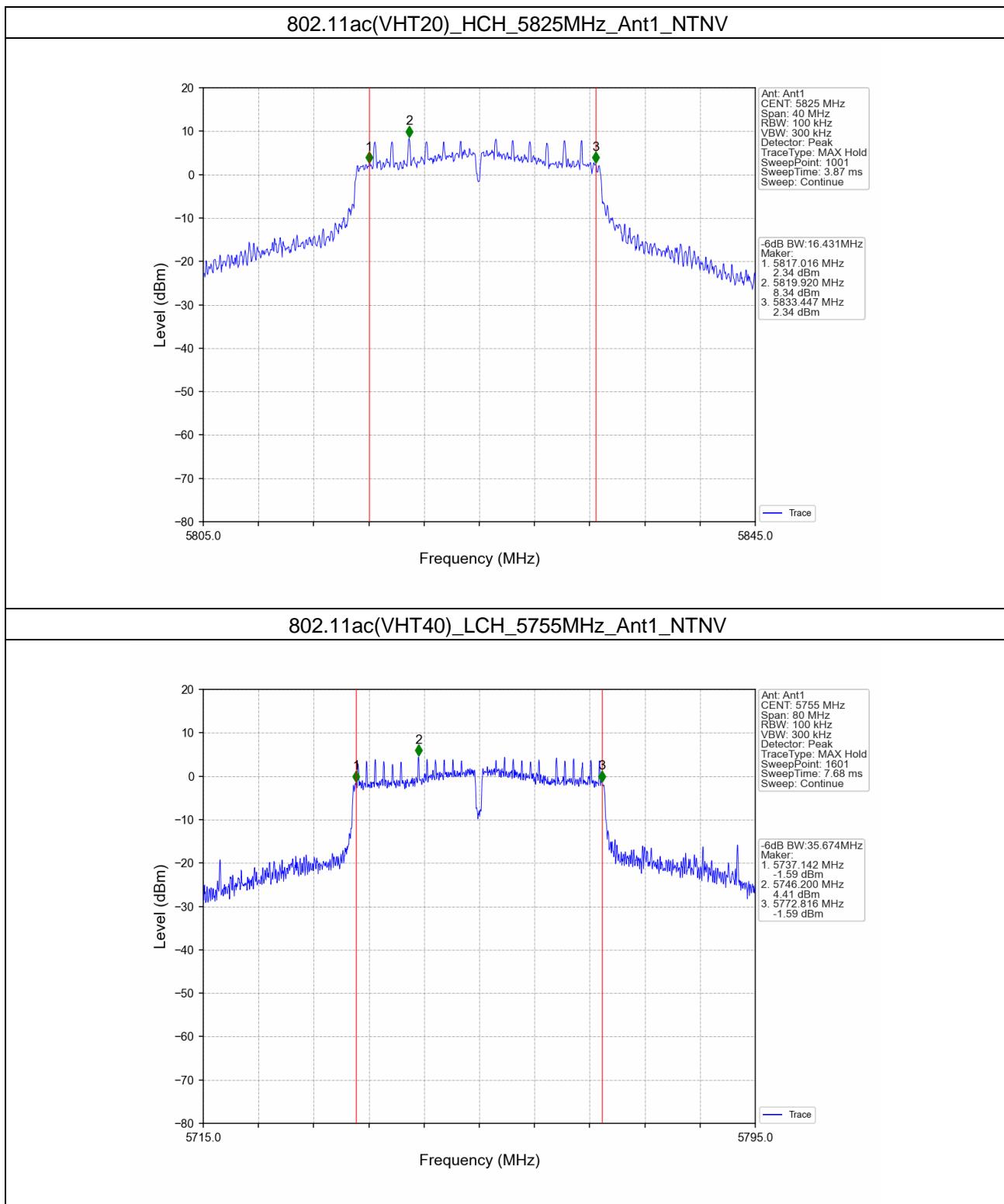
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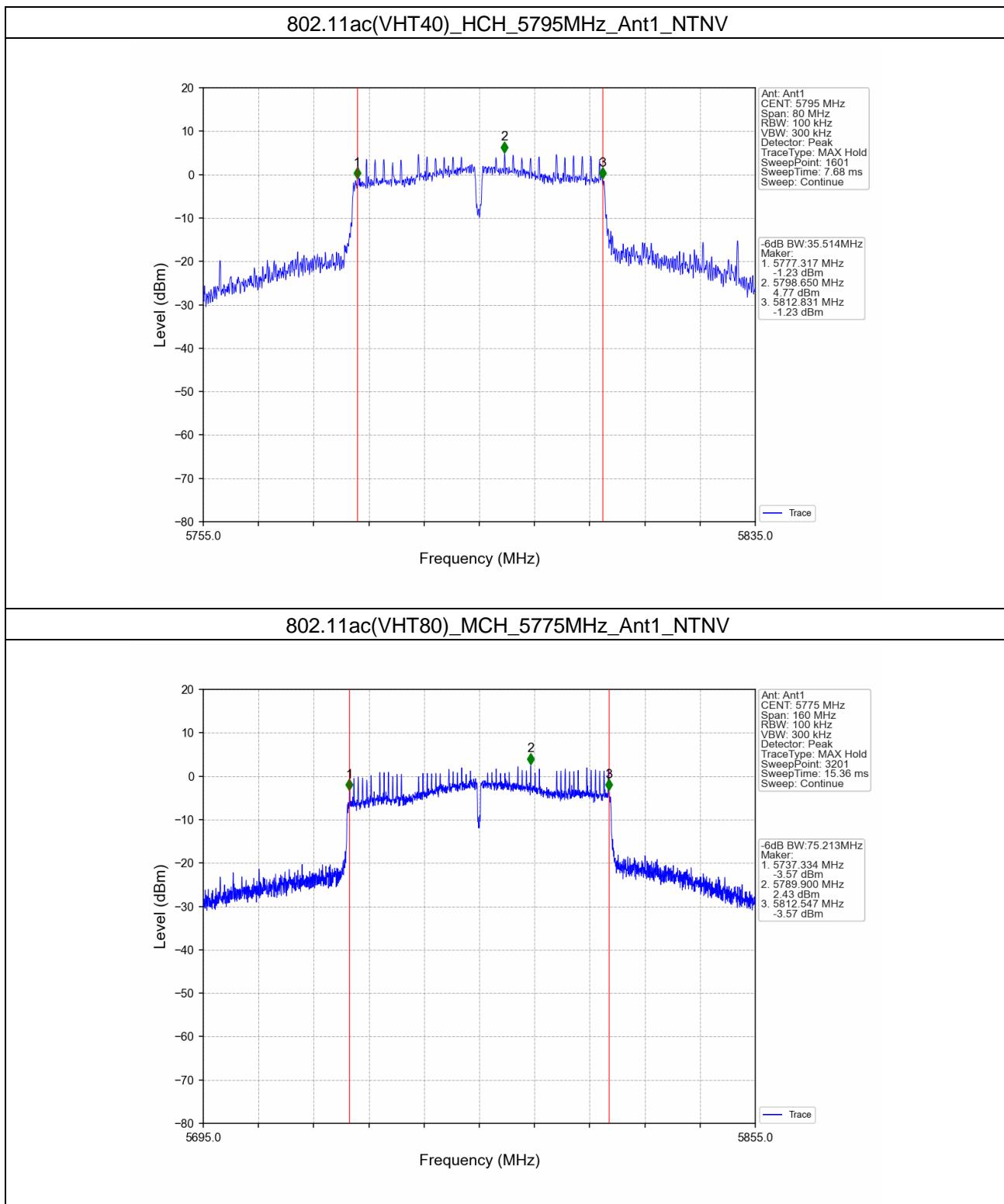
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	18.99	<=30	Pass
		5785	18.84	<=30	Pass
		5825	18.81	<=30	Pass
802.11n (HT20)	SISO	5745	18.58	<=30	Pass
		5785	18.63	<=30	Pass
		5825	18.69	<=30	Pass
802.11n (HT40)	SISO	5755	18.49	<=30	Pass
		5795	18.54	<=30	Pass
802.11ac (VHT20)	SISO	5745	18.62	<=30	Pass
		5785	18.65	<=30	Pass
		5825	18.71	<=30	Pass
802.11ac (VHT40)	SISO	5755	18.11	<=30	Pass
		5795	18.47	<=30	Pass
802.11ac (VHT80)	SISO	5775	18.25	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi;

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4. Maximum Power Spectral Density

4.1 PSD-Band3

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	6.13	<=30	Pass
		5785	6.08	<=30	Pass
		5825	5.94	<=30	Pass
802.11n (HT20)	SISO	5745	5.46	<=30	Pass
		5785	5.63	<=30	Pass
		5825	5.65	<=30	Pass
802.11n (HT40)	SISO	5755	2.01	<=30	Pass
		5795	2.37	<=30	Pass
802.11ac (VHT20)	SISO	5745	5.25	<=30	Pass
		5785	5.57	<=30	Pass
		5825	5.61	<=30	Pass
802.11ac (VHT40)	SISO	5755	1.74	<=30	Pass
		5795	2.27	<=30	Pass
802.11ac (VHT80)	SISO	5775	-0.94	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi;

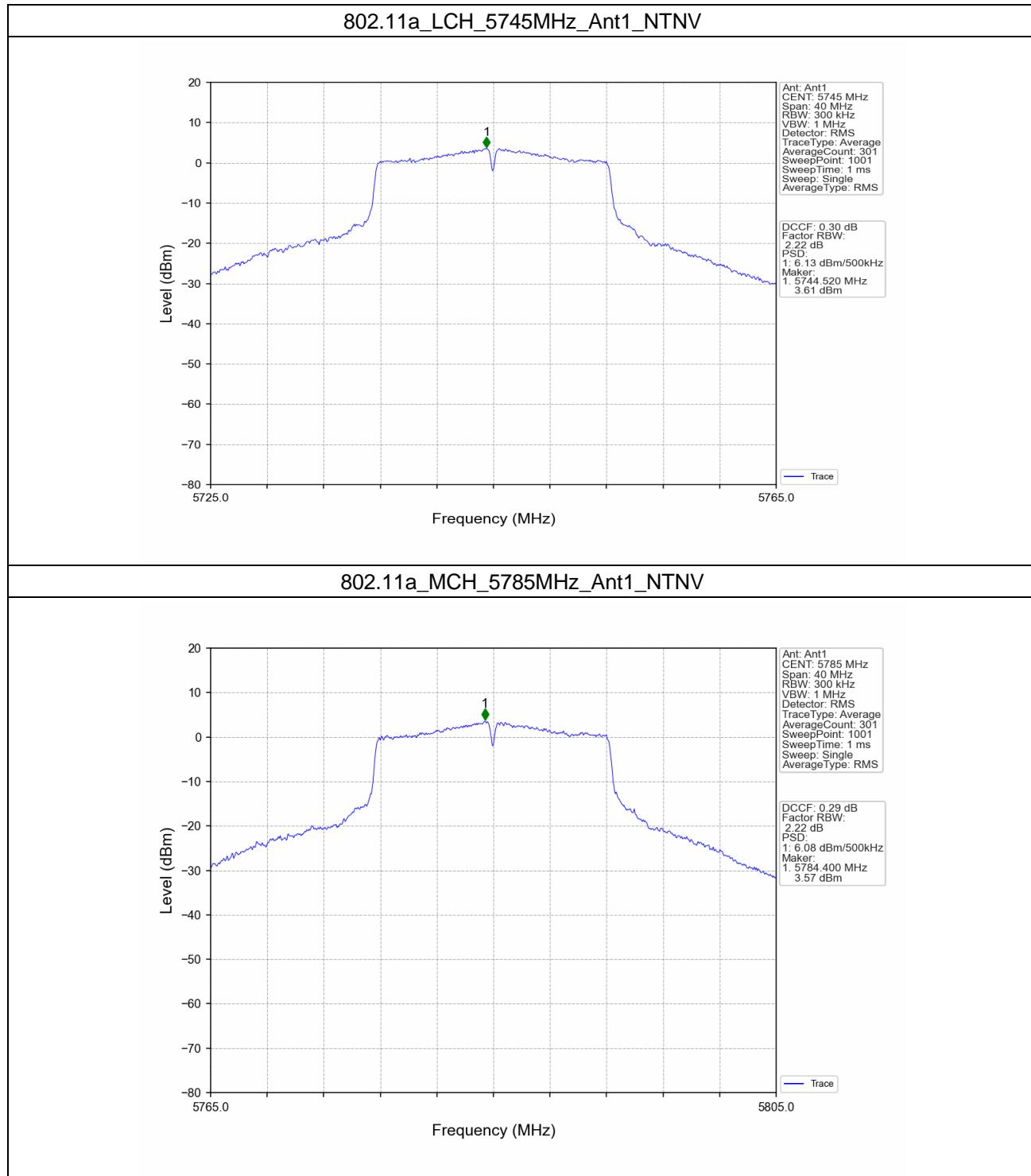
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4.1.2 Test Graph

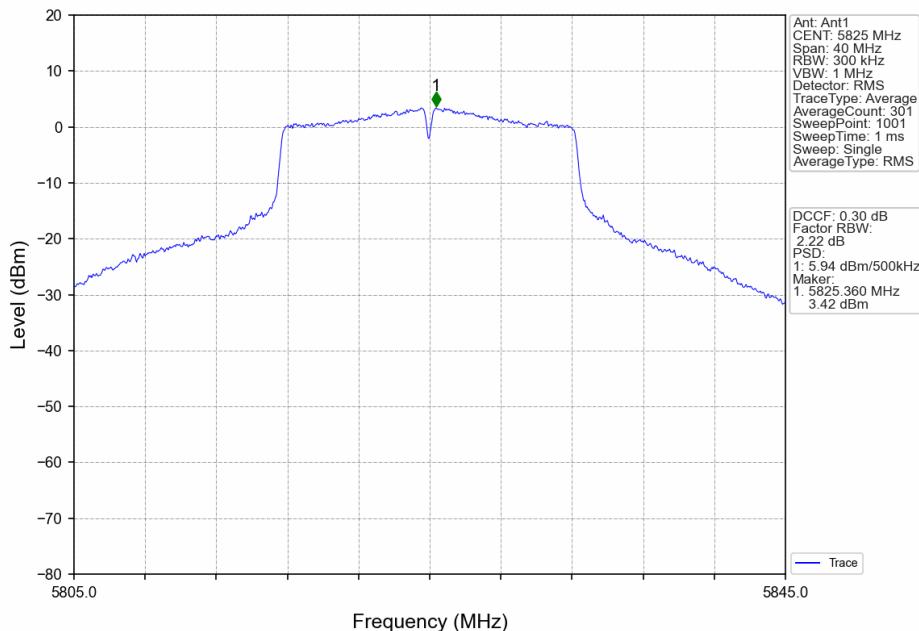
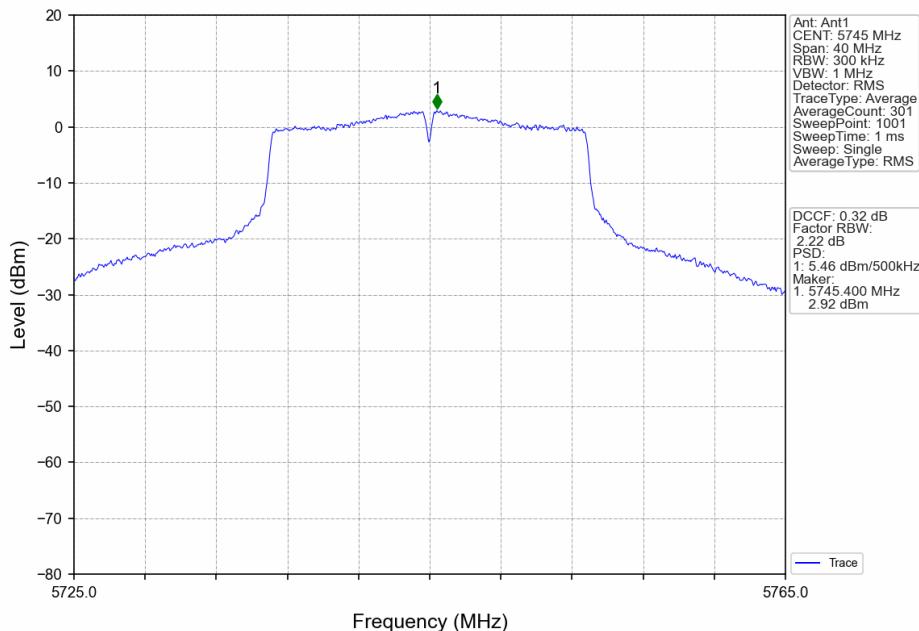
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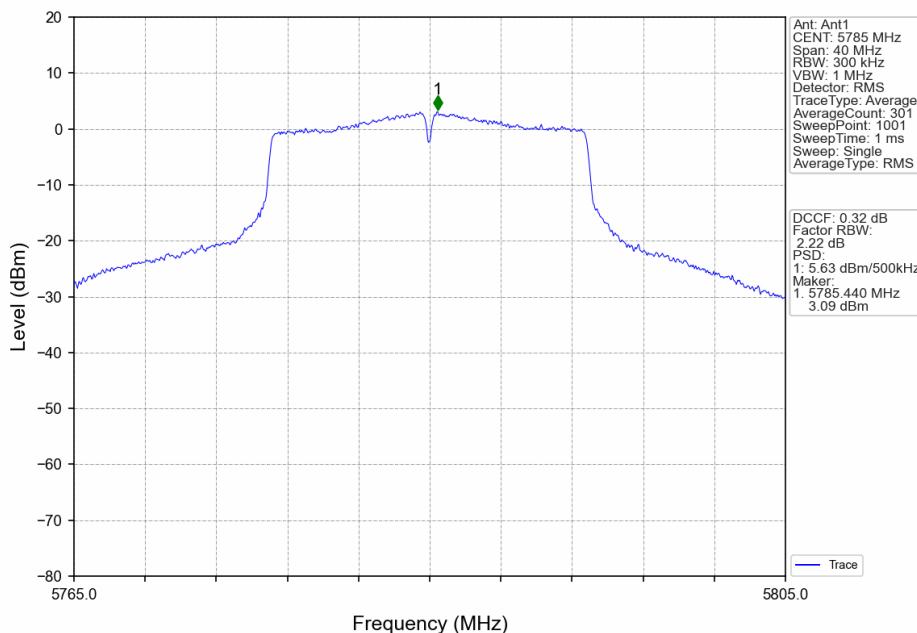
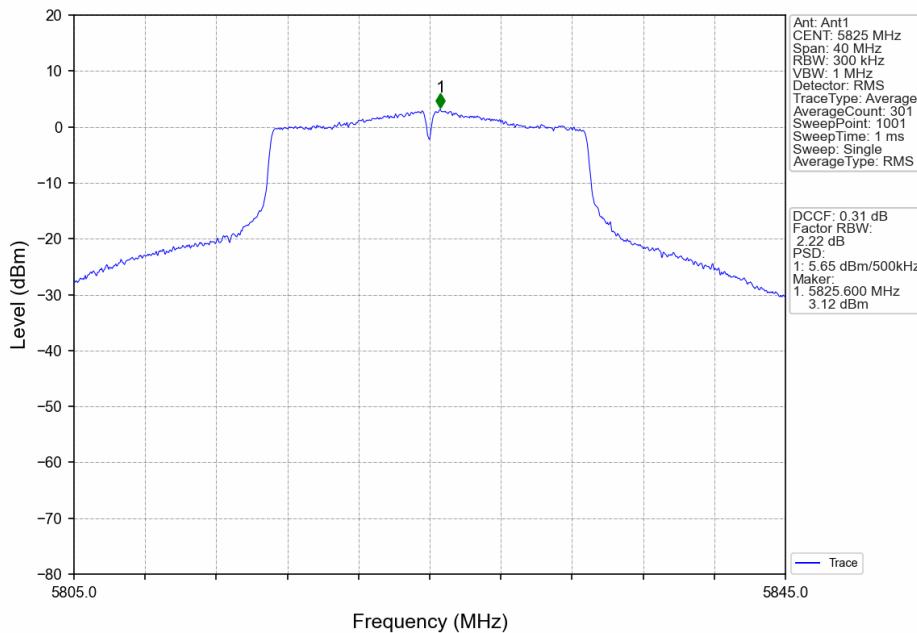
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802.11a_HCH_5825MHz_Ant1_NTNV**802.11n(HT20)_LCH_5745MHz_Ant1_NTNV**

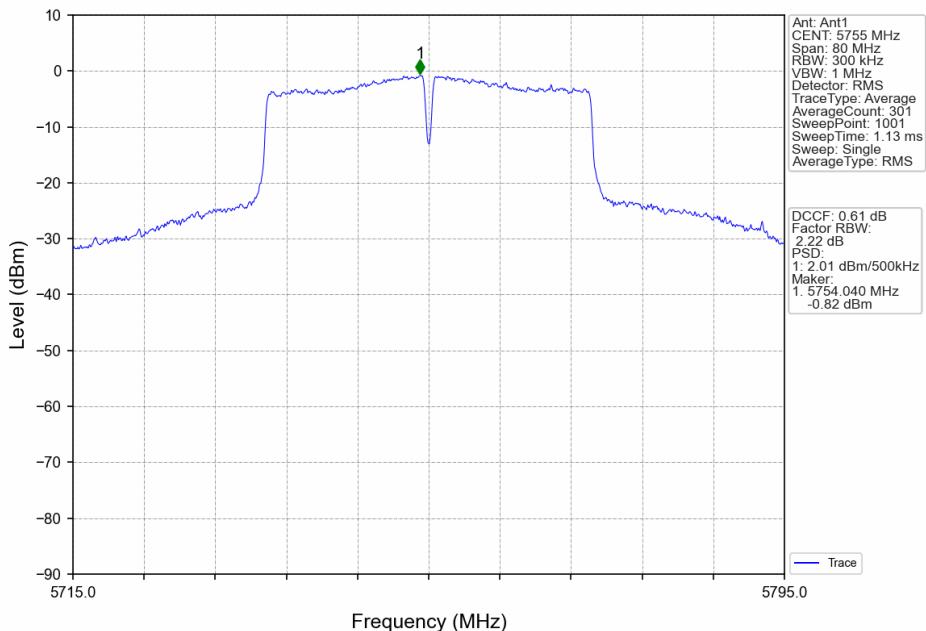
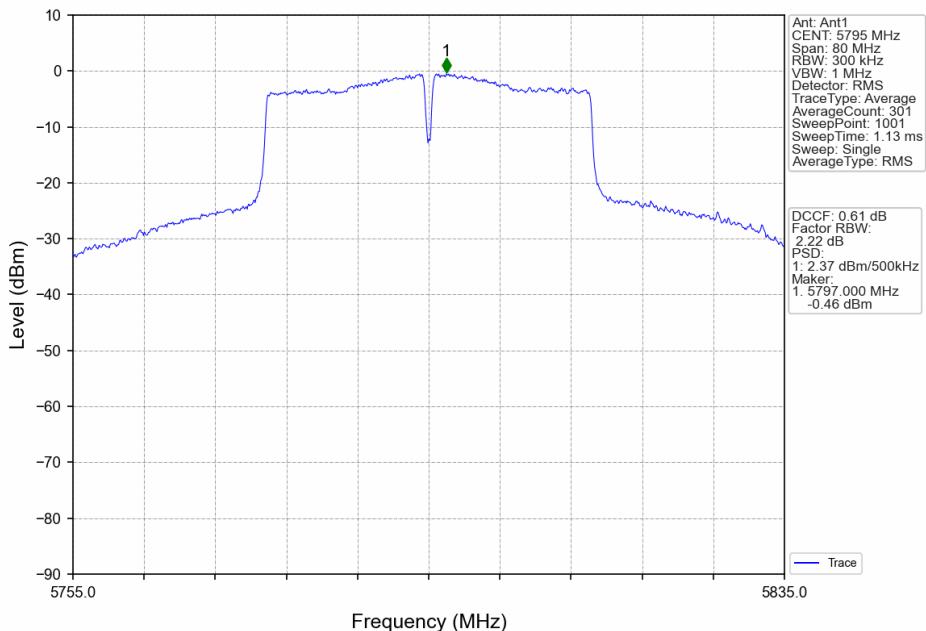
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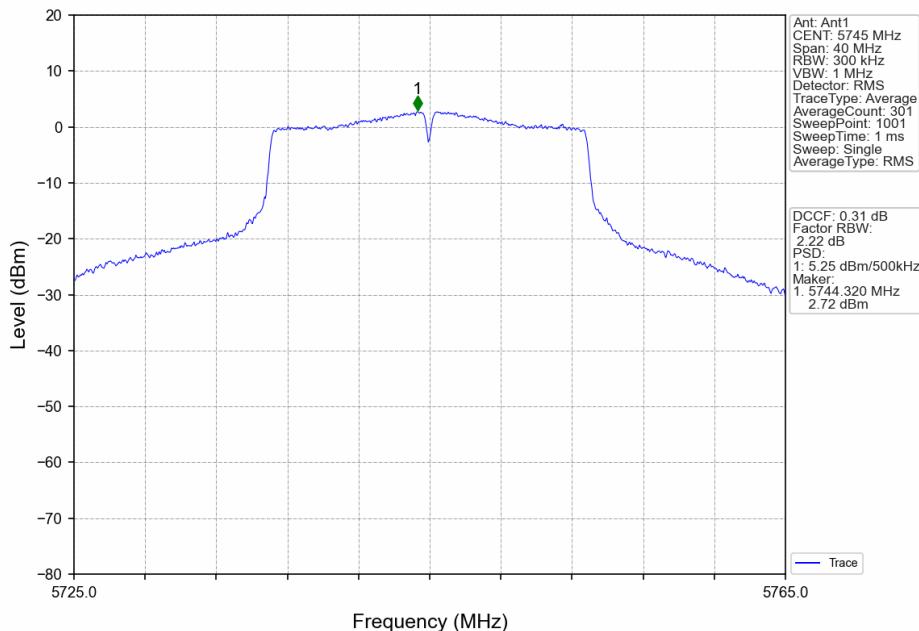
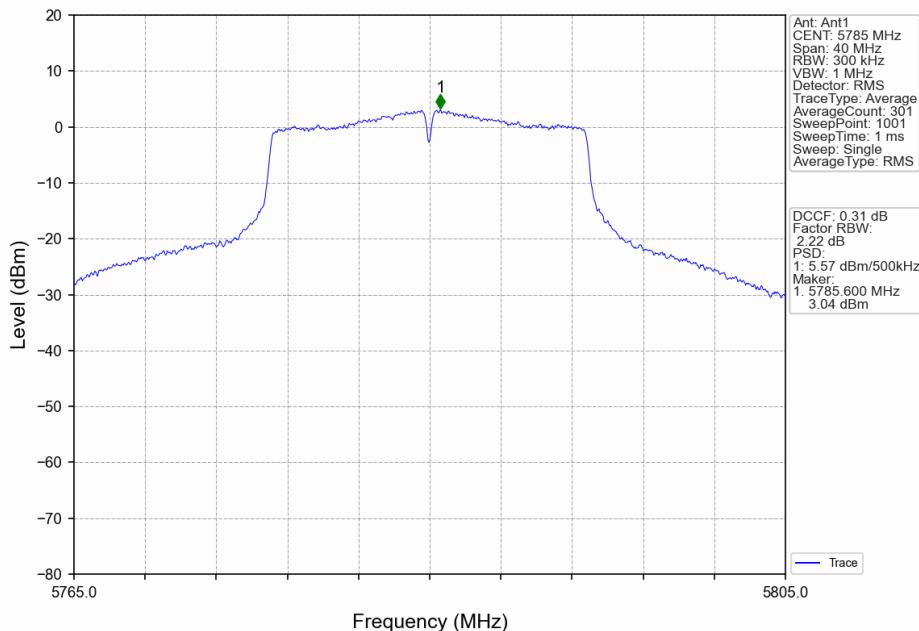
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV**802.11n(HT40)_HCH_5795MHz_Ant1_NTNV**

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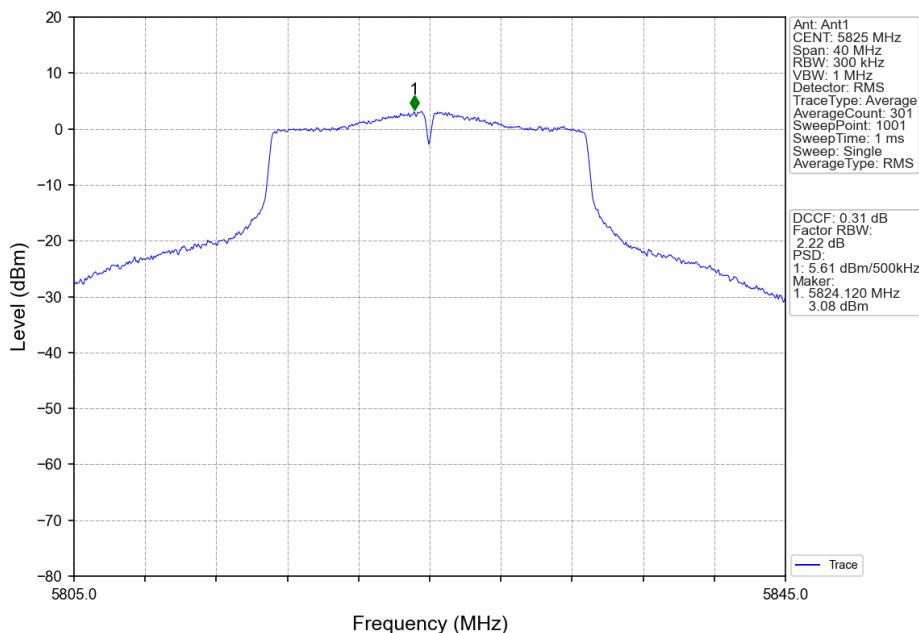
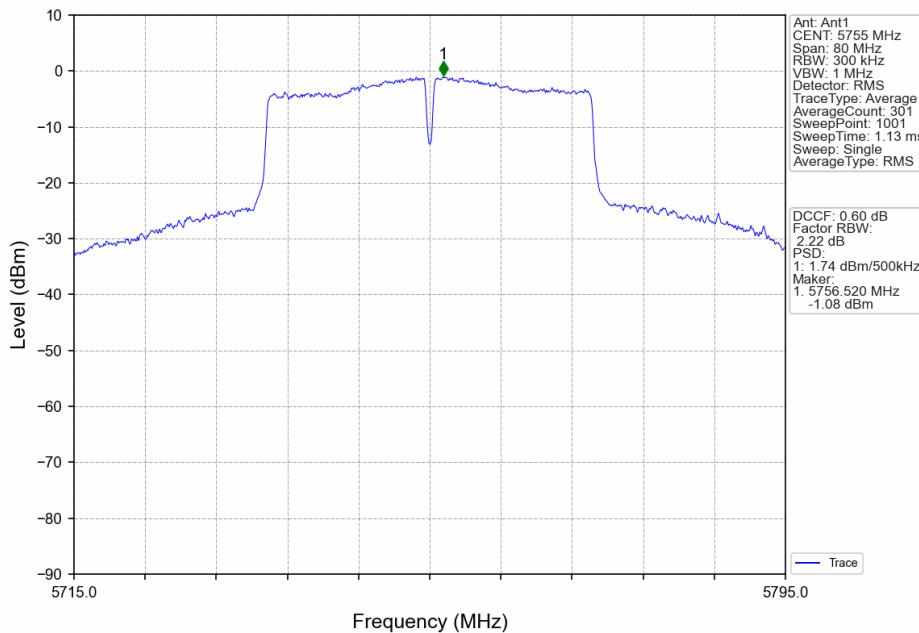
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV**802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV**

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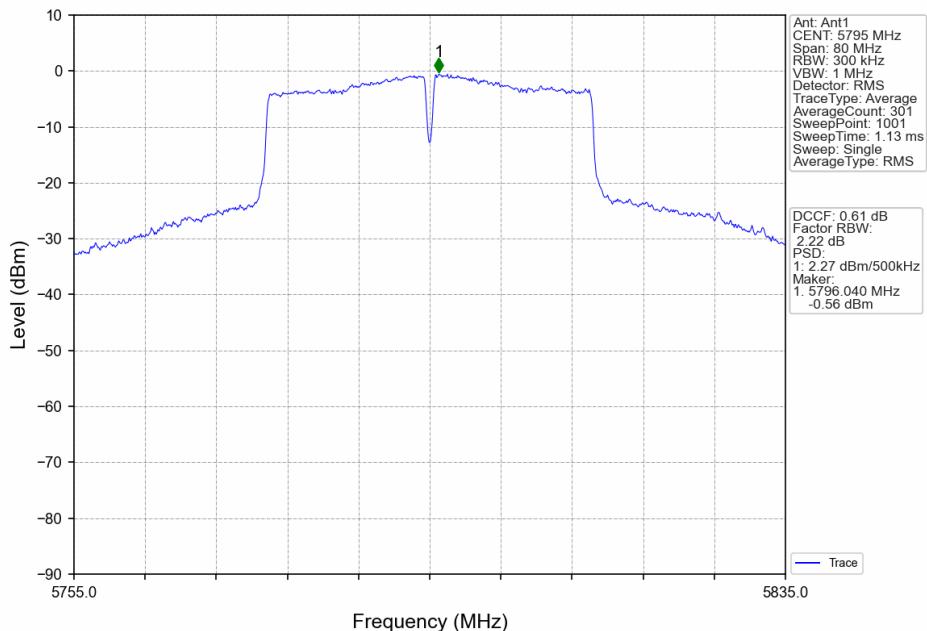
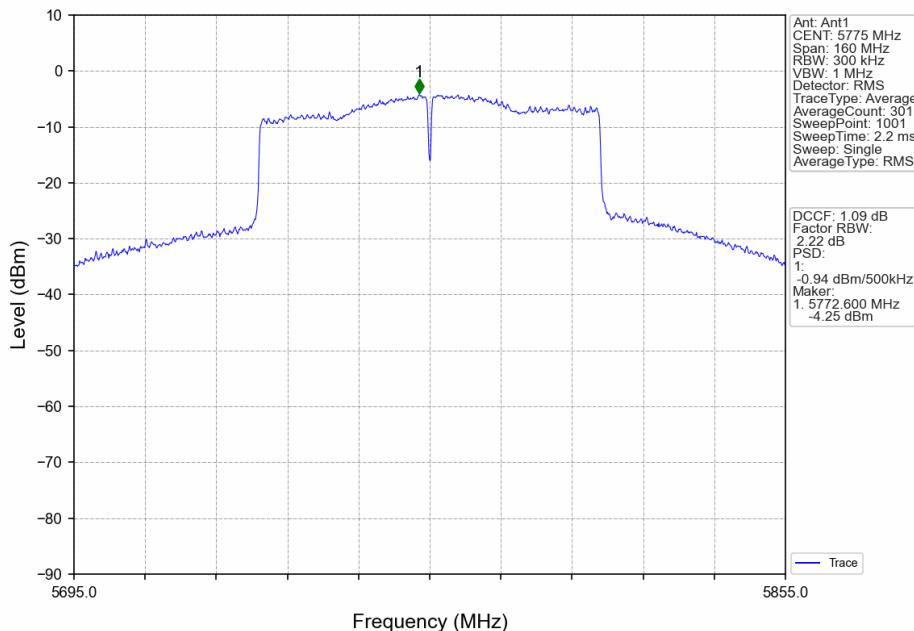
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV**802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV**

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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV**802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV**

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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5745	20	12.54	5745.040	5725 to 5850	Pass
				14.76	5745.000	5725 to 5850	Pass
				16.97	5744.900	5725 to 5850	Pass
			-10	14.76	5745.040	5725 to 5850	Pass
			-5	14.76	5744.920	5725 to 5850	Pass
			0	14.76	5744.980	5725 to 5850	Pass
			5	14.76	5744.880	5725 to 5850	Pass
			10	14.76	5744.960	5725 to 5850	Pass
			20	14.76	5744.980	5725 to 5850	Pass
			30	14.76	5744.980	5725 to 5850	Pass
			40	14.76	5745.020	5725 to 5850	Pass
		5785	20	12.54	5784.960	5725 to 5850	Pass
				14.76	5785.020	5725 to 5850	Pass
				16.97	5784.960	5725 to 5850	Pass
			-10	14.76	5784.980	5725 to 5850	Pass
			-5	14.76	5785.040	5725 to 5850	Pass
			0	14.76	5785.000	5725 to 5850	Pass
			5	14.76	5784.980	5725 to 5850	Pass
			10	14.76	5785.080	5725 to 5850	Pass
			20	14.76	5784.960	5725 to 5850	Pass
			30	14.76	5784.960	5725 to 5850	Pass
			40	14.76	5784.980	5725 to 5850	Pass
		5825	20	12.54	5824.960	5725 to 5850	Pass
				14.76	5824.980	5725 to 5850	Pass
				16.97	5824.960	5725 to 5850	Pass
			-10	14.76	5824.940	5725 to 5850	Pass
			-5	14.76	5825.000	5725 to 5850	Pass
			0	14.76	5824.920	5725 to 5850	Pass
			5	14.76	5825.000	5725 to 5850	Pass
			10	14.76	5824.920	5725 to 5850	Pass

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			20	14.76	5825.040	5725 to 5850	Pass
			30	14.76	5824.960	5725 to 5850	Pass
			40	14.76	5824.960	5725 to 5850	Pass
802.11n (HT20)	SISO	5745	20	12.54	5745.060	5725 to 5850	Pass
				14.76	5745.020	5725 to 5850	Pass
				16.97	5744.900	5725 to 5850	Pass
				-10	5744.940	5725 to 5850	Pass
			-5	14.76	5744.920	5725 to 5850	Pass
			0	14.76	5744.940	5725 to 5850	Pass
			5	14.76	5744.980	5725 to 5850	Pass
			10	14.76	5744.960	5725 to 5850	Pass
			20	14.76	5744.880	5725 to 5850	Pass
			30	14.76	5744.960	5725 to 5850	Pass
		5785	20	12.54	5784.920	5725 to 5850	Pass
				14.76	5785.040	5725 to 5850	Pass
				16.97	5784.980	5725 to 5850	Pass
				-10	5785.000	5725 to 5850	Pass
			-5	14.76	5785.020	5725 to 5850	Pass
			0	14.76	5784.920	5725 to 5850	Pass
			5	14.76	5785.020	5725 to 5850	Pass
			10	14.76	5784.980	5725 to 5850	Pass
			20	14.76	5784.940	5725 to 5850	Pass
			30	14.76	5784.940	5725 to 5850	Pass
		5825	20	12.54	5824.940	5725 to 5850	Pass
				14.76	5824.940	5725 to 5850	Pass
				16.97	5825.020	5725 to 5850	Pass
				-10	5824.920	5725 to 5850	Pass
			-5	14.76	5824.980	5725 to 5850	Pass
			0	14.76	5824.980	5725 to 5850	Pass
			5	14.76	5824.960	5725 to 5850	Pass
			10	14.76	5824.920	5725 to 5850	Pass
			20	14.76	5824.920	5725 to 5850	Pass
			30	14.76	5825.000	5725 to 5850	Pass
			40	14.76	5824.920	5725 to 5850	Pass
802.11n (HT40)	SISO	5755	20	12.54	5755.000	5725 to 5850	Pass
				14.76	5755.000	5725 to 5850	Pass
				16.97	5755.040	5725 to 5850	Pass
			-10	14.76	5755.040	5725 to 5850	Pass

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		5795	-5	14.76	5755.000	5725 to 5850	Pass
			0	14.76	5755.040	5725 to 5850	Pass
			5	14.76	5754.960	5725 to 5850	Pass
			10	14.76	5755.040	5725 to 5850	Pass
			20	14.76	5755.080	5725 to 5850	Pass
			30	14.76	5755.080	5725 to 5850	Pass
			40	14.76	5755.000	5725 to 5850	Pass
			20	12.54	5795.080	5725 to 5850	Pass
				14.76	5794.960	5725 to 5850	Pass
				16.97	5795.040	5725 to 5850	Pass
				-10	14.76	5795.000	5725 to 5850
			-5	14.76	5795.000	5725 to 5850	Pass
			0	14.76	5795.000	5725 to 5850	Pass
			5	14.76	5794.960	5725 to 5850	Pass
			10	14.76	5795.120	5725 to 5850	Pass
802.11ac (VHT20)	SISO	5745	20	12.54	5744.980	5725 to 5850	Pass
				14.76	5744.920	5725 to 5850	Pass
				16.97	5744.960	5725 to 5850	Pass
				-10	14.76	5745.000	5725 to 5850
			-5	14.76	5744.980	5725 to 5850	Pass
			0	14.76	5744.960	5725 to 5850	Pass
			5	14.76	5745.080	5725 to 5850	Pass
			10	14.76	5744.980	5725 to 5850	Pass
			20	14.76	5744.940	5725 to 5850	Pass
			30	14.76	5744.900	5725 to 5850	Pass
			40	14.76	5744.980	5725 to 5850	Pass
			20	12.54	5784.940	5725 to 5850	Pass
				14.76	5784.920	5725 to 5850	Pass
				16.97	5785.000	5725 to 5850	Pass
				-10	14.76	5785.000	5725 to 5850
			-5	14.76	5784.980	5725 to 5850	Pass
			0	14.76	5784.980	5725 to 5850	Pass
			5	14.76	5785.020	5725 to 5850	Pass
			10	14.76	5785.020	5725 to 5850	Pass
			20	14.76	5784.960	5725 to 5850	Pass
			30	14.76	5784.920	5725 to 5850	Pass
			40	14.76	5784.940	5725 to 5850	Pass

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		5825	20	12.54	5824.980	5725 to 5850	Pass	
				14.76	5824.960	5725 to 5850	Pass	
				16.97	5824.940	5725 to 5850	Pass	
				-10	14.76	5825.040	5725 to 5850	Pass
				-5	14.76	5825.020	5725 to 5850	Pass
				0	14.76	5824.900	5725 to 5850	Pass
				5	14.76	5825.060	5725 to 5850	Pass
				10	14.76	5824.940	5725 to 5850	Pass
				20	14.76	5825.060	5725 to 5850	Pass
				30	14.76	5824.920	5725 to 5850	Pass
				40	14.76	5824.900	5725 to 5850	Pass
802.11ac (VHT40)	SISO	5755	20	12.54	5755.000	5725 to 5850	Pass	
				14.76	5754.920	5725 to 5850	Pass	
				16.97	5755.040	5725 to 5850	Pass	
				-10	14.76	5755.040	5725 to 5850	Pass
				-5	14.76	5755.080	5725 to 5850	Pass
				0	14.76	5755.080	5725 to 5850	Pass
				5	14.76	5755.000	5725 to 5850	Pass
				10	14.76	5755.120	5725 to 5850	Pass
				20	14.76	5754.960	5725 to 5850	Pass
				30	14.76	5755.000	5725 to 5850	Pass
				40	14.76	5755.000	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5795	20	12.54	5795.040	5725 to 5850	Pass	
				14.76	5795.000	5725 to 5850	Pass	
				16.97	5795.000	5725 to 5850	Pass	
				-10	14.76	5795.040	5725 to 5850	Pass
				-5	14.76	5795.000	5725 to 5850	Pass
				0	14.76	5795.120	5725 to 5850	Pass
				5	14.76	5795.040	5725 to 5850	Pass
				10	14.76	5795.080	5725 to 5850	Pass
				20	14.76	5794.960	5725 to 5850	Pass
				30	14.76	5795.040	5725 to 5850	Pass
				40	14.76	5795.000	5725 to 5850	Pass
		5775	20	12.54	5775.075	5725 to 5850	Pass	
				14.76	5775.150	5725 to 5850	Pass	
				16.97	5775.000	5725 to 5850	Pass	
				-10	14.76	5775.150	5725 to 5850	Pass
				-5	14.76	5775.075	5725 to 5850	Pass
				0	14.76	5775.000	5725 to 5850	Pass
				5	14.76	5775.075	5725 to 5850	Pass

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			10	14.76	5775.000	5725 to 5850	Pass
			20	14.76	5775.075	5725 to 5850	Pass
			30	14.76	5775.000	5725 to 5850	Pass
			40	14.76	5775.150	5725 to 5850	Pass

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