

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800040505

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TEST REPORT

Application No.: FYCR2608000405AT
Applicant: TANGTRING SEATING TECHNOLOGY USA LLC
Address of Applicant: Suite 403-A, 1013 Centre Rd Wilmington Delaware 19805 United States
Manufacturer: TangTring Seating Technology Inc
Address of Manufacturer: Yifa Industrial Park, Pingtan, Huiyang, Huizhou, Guangdong, China
Factory: TangTring Seating Technology Inc
Address of Factory: Yifa Industrial Park, Pingtan, Huiyang, Huizhou, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Controller
Model No.: EK-E98000038A01
FCC ID: 2BXW0EK-E98000038
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2026-08-07
Date of Test: 2026-08-22 to 2026-09-30
Date of Issue: 2026-09-30

Test Result:

Pass*

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



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-30		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10-2020+Cor.1-2023 Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10-2020+Cor.1-2023 Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 12.7	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10-2020+Cor.1-2023 Section 6.10.5 & 12.7.2	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10-2020+Cor.1-2023 Section 12.2	ANSI C63.10-2020+Cor.1-2023 Section 12.2	Pass
99% Bandwidth		ANSI C63.10-2020+Cor.1-2023 Section 6.9.3	ANSI C63.10-2020+Cor.1-2023 Section 12.5.3	Pass
26dB Emission Bandwidth		ANSI C63.10-2020+Cor.1-2023 Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB Bandwidth (5.725-5.85 GHz band)		ANSI C63.10-2020+Cor.1-2023 Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted Output Power		ANSI C63.10-2020+Cor.1-2023 Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Power Spectral Density		ANSI C63.10-2020+Cor.1-2023 Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10-2020+Cor.1-2023 Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass



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Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Non-occupancy Period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC100V~240V 2.5A (MAX)
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5720MHz (12 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-2C: 5510-5710MHz (6 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-2C: 5530-5690MHz (3 Channels); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM); 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM); 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
Channel Spacing:	802.11a/n/ac 20: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac 80: 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	3.18dBi

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4.2 Description of Support Units

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



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 5.7\text{dB}$
Radiated Emissions (Above 1GHz)	$\pm 4.7\text{dB}$ (1-18GHz); $\pm 4.7\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 4.7\text{dB}$
Duty Cycle	$\pm 0.28\%$
99% Bandwidth	$\pm 0.27\%$
26dB Emission Bandwidth	$\pm 0.27\%$
Minimum 6 dB Bandwidth (5.725-5.85 GHz band)	$\pm 0.27\%$
Maximum Conducted Output Power	$\pm 0.43\text{dB}$
Power Spectral Density	$\pm 0.38\text{dB}$
Frequency Stability	$\pm 5.4 \times 10^{-8}$

Remark:

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

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
- the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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SZCCS-TRF-01 Rev. A/2

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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

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	CRT	N/A	SEM001-14	2025/10/13	2028/10/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-24	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM033-02	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2025/8/29	2027/8/28
Loop Antenna	ETS-LINDGREN	6502	SEM003-43	2025/6/16	2027/6/15
MXE EMI receiver	Agilent	N9038A	SEM004-05	2026/7/03	2027/7/02
Pre-amplifier	HP	8447D	SEM005-02	2026/7/07	2027/7/06
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025/7/29	2027/7/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Pre-amplifier	TST PASS	LNA10180G60	SEM005-32	2026/4/4	2027/4/3
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Coaxial Cable	CCS	N/A	SEM035-03	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026/2/3	2027/2/2
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2026/2/3	2027/2/2
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2026/2/4	2027/2/3
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2026/2/5	2027/2/4
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026/2/2	2027/2/1
Coaxial Cable	CCS	N/A	SEM037-01	2026/5/12	2027/5/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2026/2/3	2027/2/2
Manual Step Attenuator	Agilent	8494B	SEM021-05	2026/2/2	2027/2/1
Manual Step Attenuator	Agilent	8496B	SEM021-06	2026/2/2	2027/2/1
Signal Generator	Agilent	N5173B	SEM006-05	2026/4/1	2027/3/31
Vector Signal Generator(100kHz-7.5GHz) Generator	Rohde & Schwarz	SMW200A	SEM006-19	2026/7/06	2027/7/05
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2026/2/3	2027/2/2



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-52	2026/7/8	2027/7/7
Humidity/ Temperature Indicator	deli	8838	SEM002-53	2026/7/8	2027/7/7
Barometer	DUMAI	DYM3	SEM002-24	2026/7/10	2027/7/9



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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 3.18dBi

Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

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



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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 C63.10-2020+Cor.1-2023 Section 6.2
 Test Engineer: Fly Yan

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 48.2 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	07	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

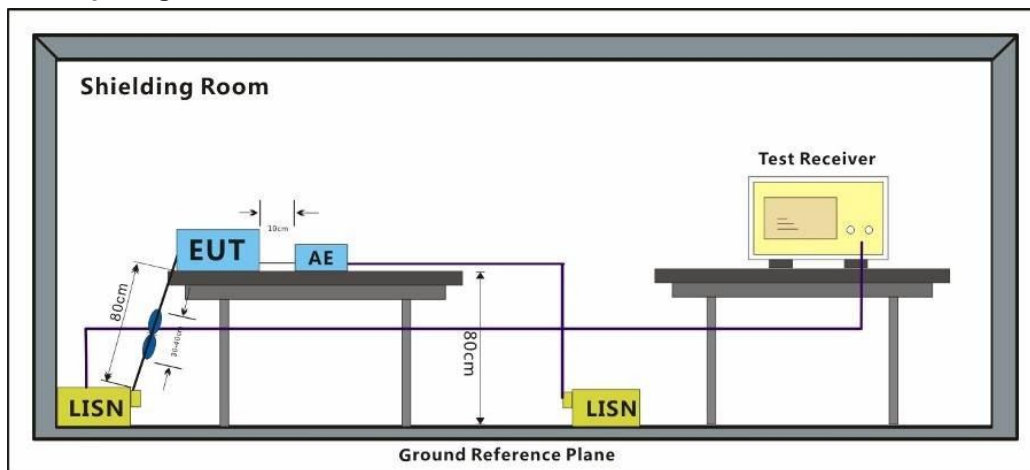


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	is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
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7.1.3 Test Setup Diagram



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

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

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



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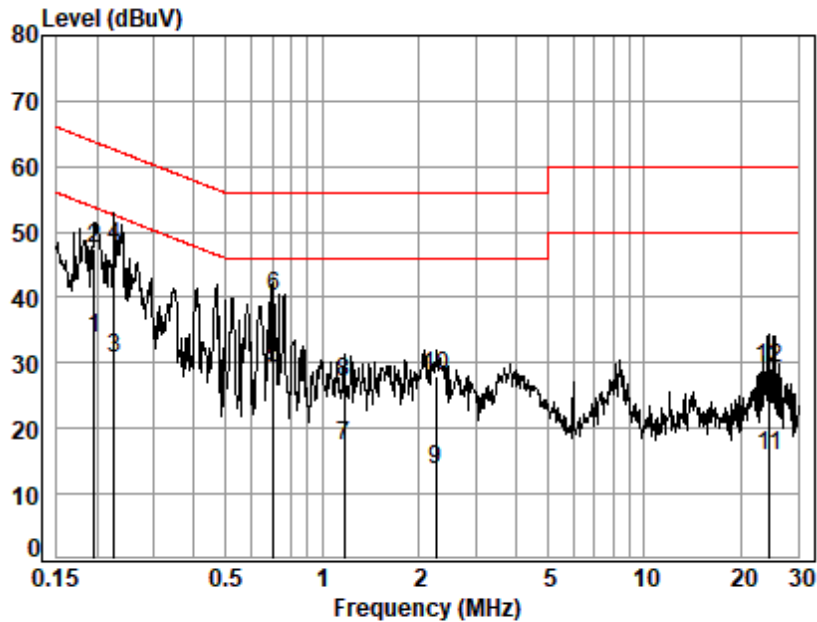
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Test Mode: 04; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00405AT
Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1965	0.02	9.60	24.13	33.75	53.76	-20.01	Average
2	0.1965	0.02	9.60	37.95	47.57	63.76	-16.19	QP
3	0.2256	0.03	9.69	21.01	30.73	52.61	-21.88	Average
4	0.2256	0.03	9.69	38.06	47.78	62.61	-14.83	QP
5	0.7047	0.04	9.75	19.55	29.34	46.00	-16.66	Average
6	0.7047	0.04	9.75	30.50	40.29	56.00	-15.71	QP
7	1.1719	0.04	9.88	7.48	17.40	46.00	-28.60	Average
8	1.1719	0.04	9.88	17.12	27.04	56.00	-28.96	QP
9	2.2486	0.04	9.84	3.89	13.77	46.00	-32.23	Average
10	2.2486	0.04	9.84	17.96	27.84	56.00	-28.16	QP
11	24.5291	0.07	9.78	5.84	15.69	50.00	-34.31	Average
12	24.5291	0.07	9.78	19.23	29.08	60.00	-30.92	QP



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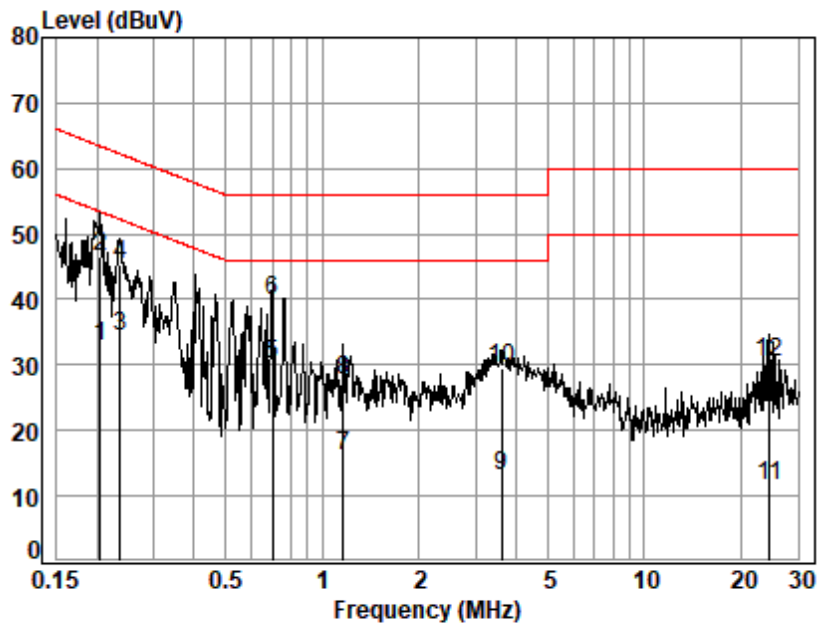
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Test Mode: 04; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00405AT
Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2050	0.02	9.49	23.29	32.80	53.40	-20.60	Average
2	0.2050	0.02	9.49	37.12	46.63	63.40	-16.77	QP
3	0.2353	0.03	9.58	24.70	34.31	52.26	-17.95	Average
4	0.2353	0.03	9.58	35.82	45.43	62.26	-16.83	QP
5	0.7010	0.04	9.86	20.12	30.02	46.00	-15.98	Average
6	0.7010	0.04	9.86	29.83	39.73	56.00	-16.27	QP
7	1.1657	0.04	9.83	6.22	16.09	46.00	-29.91	Average
8	1.1657	0.04	9.83	17.94	27.81	56.00	-28.19	QP
9	3.6034	0.05	9.76	3.35	13.16	46.00	-32.84	Average
10	3.6034	0.05	9.76	19.83	29.64	56.00	-26.36	QP
11	24.5291	0.07	9.71	1.74	11.52	50.00	-38.48	Average
12	24.5291	0.07	9.71	20.66	30.44	60.00	-29.56	QP



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7.2 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.4,6.5
 Measurement Distance: 3m
 Test Engineer: Rex Liu

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

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C Humidity: 51.6 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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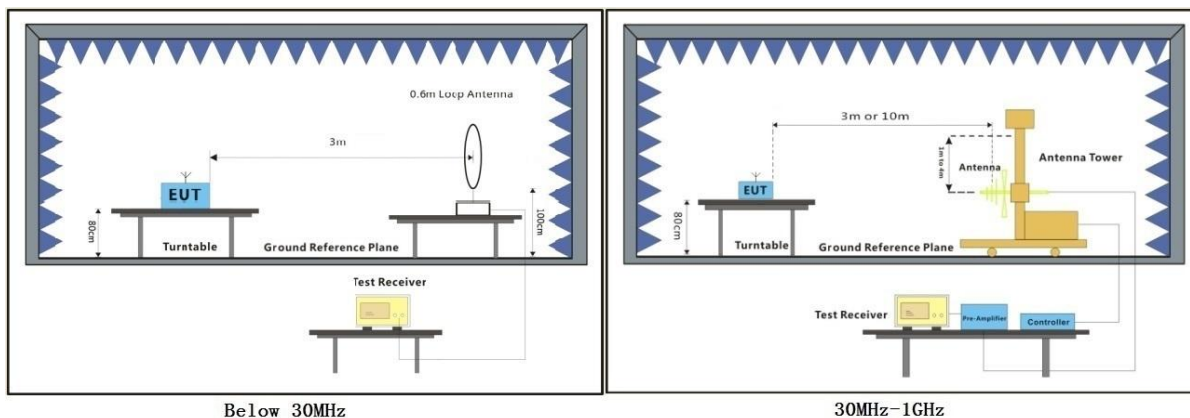
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Pre-scan	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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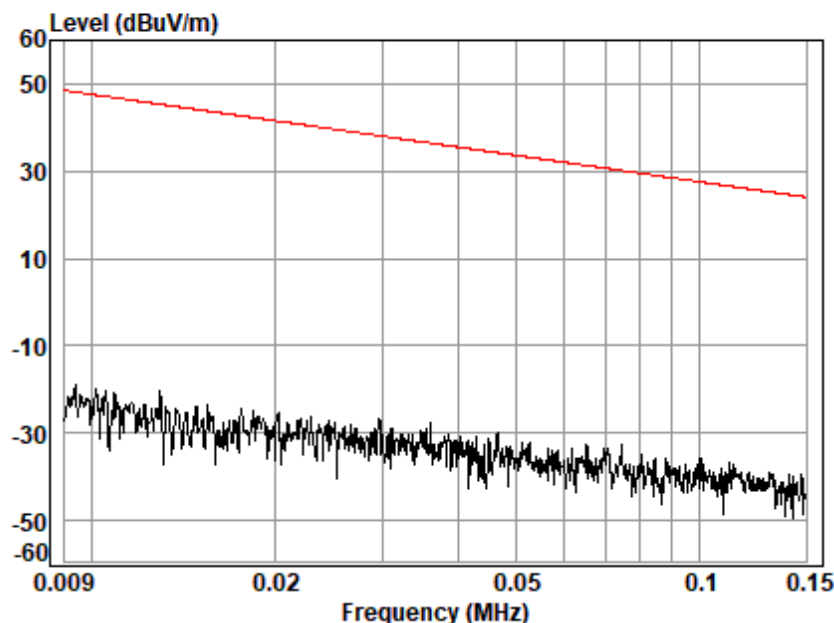
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Test Mode: 04



Site : chamber
Condition: 3m
Job No. : 00405AT
Test Mode: 04
 : coaxial



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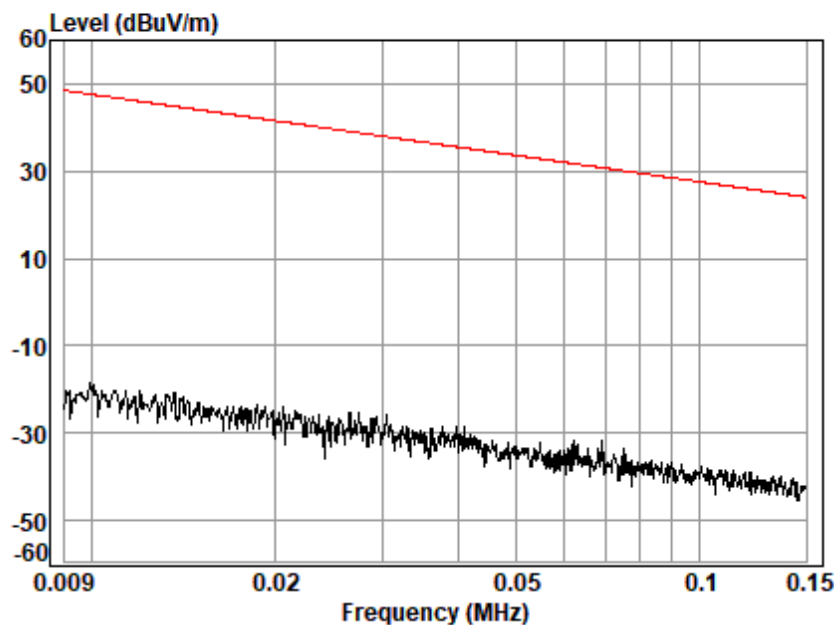
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Test Mode: 04



Site : chamber
 Condition: 3m
 Job No. : 00405AT
 Test Mode: 04
 : coplanar



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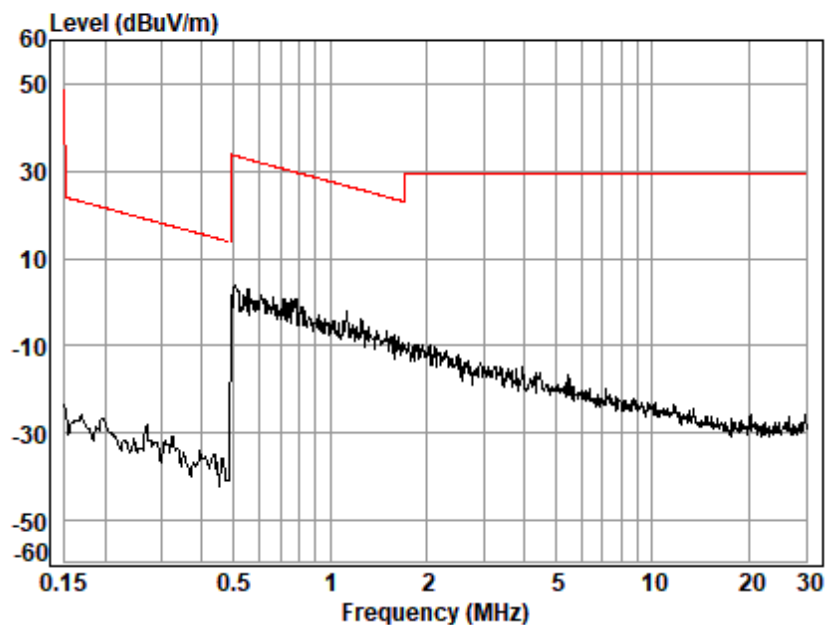
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Test Mode: 04



Site : chamber
Condition: 3m
Job No. : 00405AT
Test Mode: 04
 : coaxial



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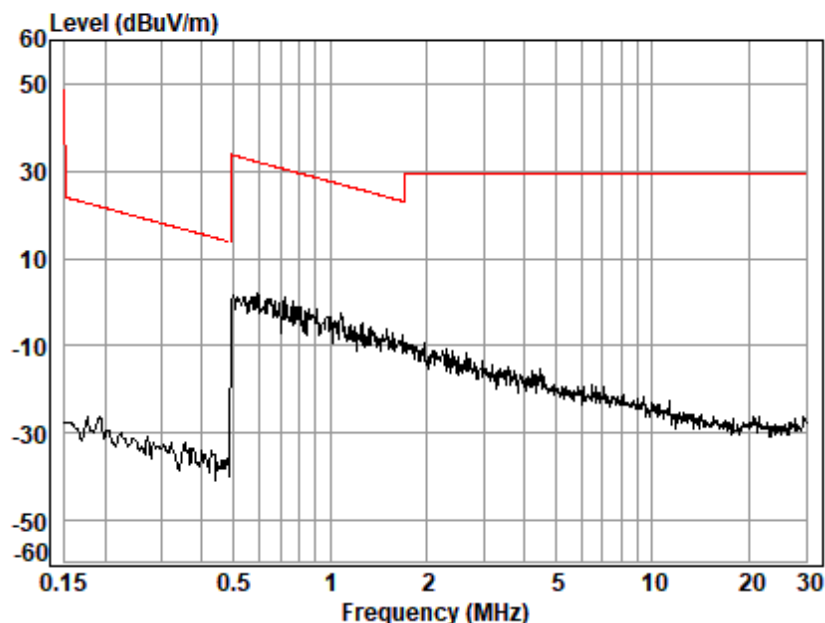
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Test Mode: 04



Site : chamber
Condition: 3m
Job No. : 00405AT
Test Mode: 04
 : coplanar



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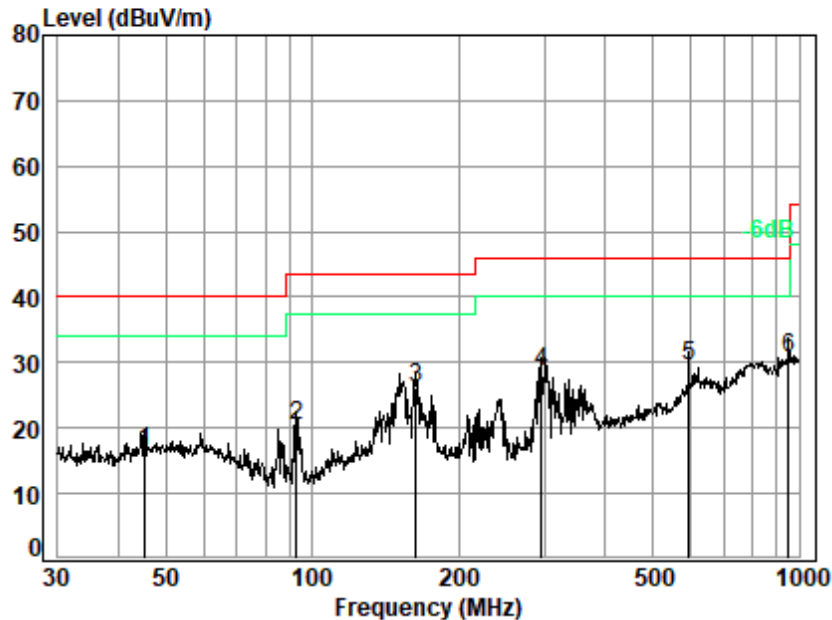
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Test Mode: 04



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 04

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	45.375	17.66	0.60	26.11	24.30	16.45	40.00	-23.55 QP
2	92.787	11.98	0.49	25.97	33.86	20.36	43.50	-23.14 QP
3	163.182	17.20	1.12	25.59	33.51	26.24	43.50	-17.26 QP
4	296.184	17.42	0.42	25.21	36.09	28.72	46.00	-17.28 QP
5	593.050	23.81	3.22	26.56	29.18	29.65	46.00	-16.35 QP
6	952.094	28.12	2.89	26.34	25.95	30.62	46.00	-15.38 QP



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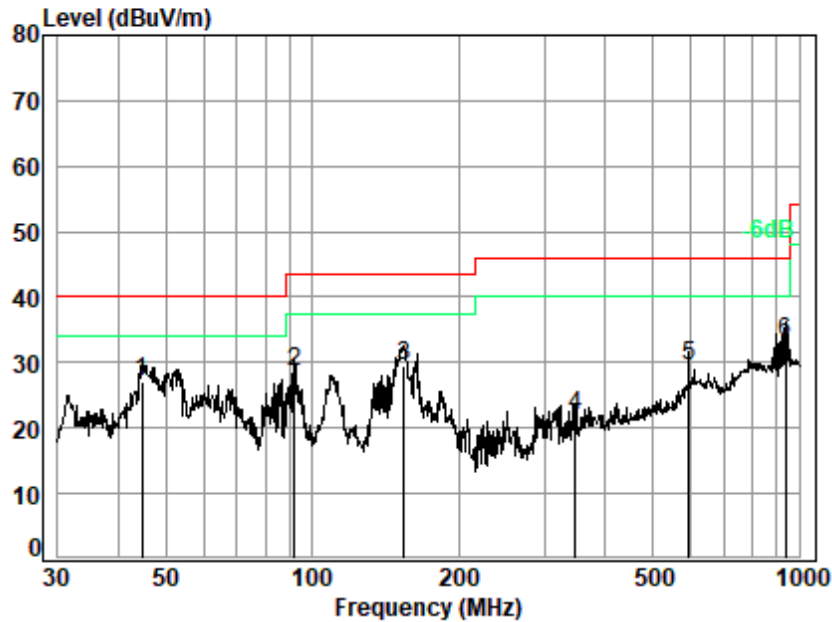
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Test Mode: 04



Site : chamber
Condition: 3m VERTICAL
Job No : 00405AT
Mode : 04

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	44.743	17.62	0.56	26.11	34.98	27.05	40.00	-12.95 QP
2	91.816	11.92	0.56	25.98	41.97	28.47	43.50	-15.03 QP
3	154.279	17.44	1.26	25.62	36.36	29.44	43.50	-14.06 QP
4	346.809	18.41	1.38	25.60	27.60	21.79	46.00	-24.21 QP
5	593.050	23.81	3.22	26.56	29.15	29.62	46.00	-16.38 QP
6	938.833	28.08	2.67	26.36	28.82	33.21	46.00	-12.79 QP



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7.3 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 12.7
 Measurement Distance: 3m
 Test Engineer: Rex Liu

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



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*(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:

1. 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 1000MHz. 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.

2. Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 51.4 % RH

Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0



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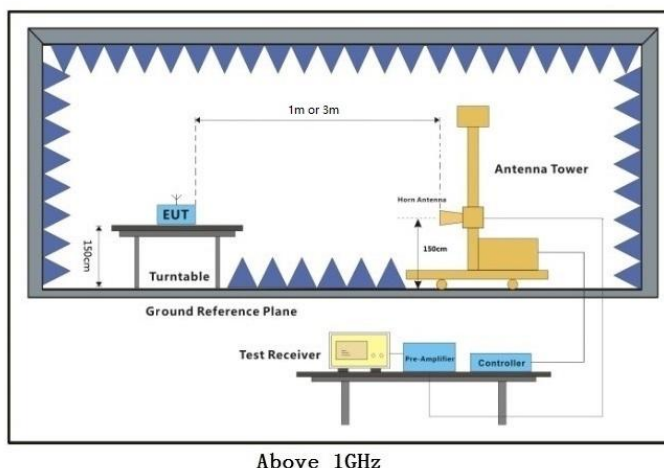
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		is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Above 1GHz



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7.3.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 40GHz, The points marked on below plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the below harmonics were the highest point could be found when testing, so only the below harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle<98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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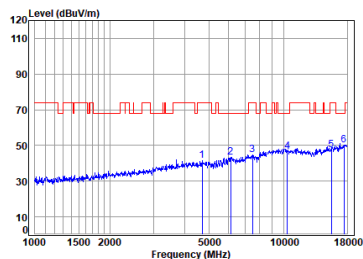
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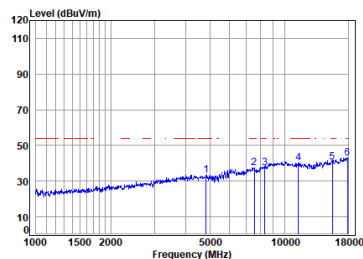
11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4694.299	8.21	32.21	53.12	54.31	41.61	74.00	-32.39	Peak		0.00
2 6124.292	8.36	34.00	53.29	54.15	43.22	68.20	-24.98	Peak		0.00
3 7497.646	9.22	36.90	53.71	52.47	44.88	74.00	-29.12	Peak		0.00
4 10360.000	11.62	38.38	53.91	50.34	46.43	68.20	-21.77	Peak		0.00
5 15540.000	13.35	39.04	53.13	48.31	47.57	74.00	-26.43	Peak		0.00
6 pp17487.188	14.43	39.29	51.68	48.18	50.30	68.20	-17.90	Peak		0.00

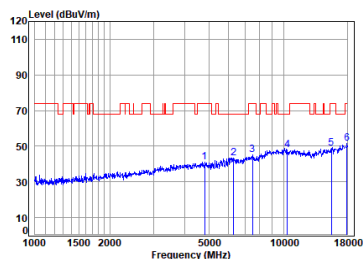
11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4831.962	8.27	31.81	53.15	46.58	33.51	54.00	-20.49	Average		0.00
2 7541.114	9.24	36.08	53.76	46.05	37.61	54.00	-16.39	Average		0.00
3 8319.836	9.45	37.08	54.10	44.86	37.29	54.00	-16.71	Average		0.00
4 11368.000	11.97	39.20	53.79	42.85	40.23	54.00	-13.77	Average		0.00
5 15540.000	13.35	39.04	53.13	41.49	40.75	54.00	-13.25	Average		0.00
6 pp17896.250	14.48	41.55	51.52	38.33	42.84	54.00	-11.16	Average		0.00

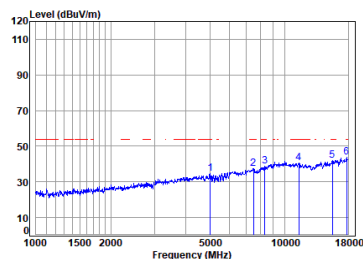
11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4818.016	8.26	31.89	53.15	54.00	41.00	74.00	-33.00	Peak		0.00
2 6285.695	8.52	34.70	53.27	53.59	43.54	68.20	-24.66	Peak		0.00
3 7497.646	9.22	36.90	53.71	52.94	45.35	74.00	-28.65	Peak		0.00
4 10360.000	11.62	38.38	53.91	51.60	47.69	68.20	-20.51	Peak		0.00
5 15540.000	13.35	39.04	53.13	49.40	48.66	74.00	-25.34	Peak		0.00
6 17948.058	14.48	42.37	51.51	46.01	51.35	74.00	-22.65	Peak		0.00

11a_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 5016.977	8.35	32.93	53.20	46.57	34.65	54.00	-19.35	Average		0.00
2 7497.646	9.22	36.90	53.71	45.11	37.52	54.00	-16.48	Average		0.00
3 8319.836	9.45	37.08	54.10	46.50	38.93	54.00	-15.07	Average		0.00
4 11400.910	12.04	39.30	53.81	42.97	40.50	54.00	-13.50	Average		0.00
5 15540.000	13.35	39.04	53.13	42.90	42.16	54.00	-11.84	Average		0.00
6 pp17741.740	14.46	40.14	51.55	40.60	43.65	54.00	-10.35	Average		0.00



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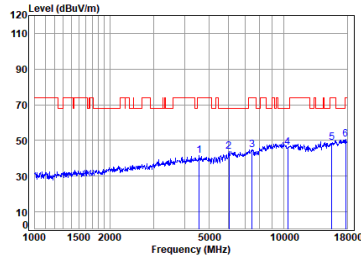
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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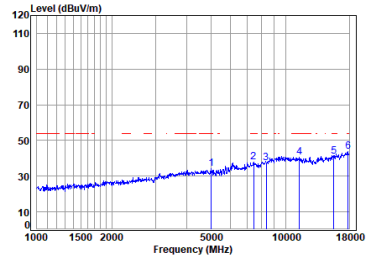
11a_TX_CH_44_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4573.760	8.15	31.55	53.08	54.82	41.44	74.00	-32.56	Peak	0.00	
2	6018.999	8.25	33.38	53.30	55.36	43.69	68.20	-24.51	Peak	0.00	
3	7454.429	9.16	36.90	53.67	52.34	44.73	74.00	-29.27	Peak	0.00	
4	pp10400.000	11.59	38.30	53.09	50.00	46.00	68.20	-22.20	Peak	0.00	
5	15600.000	13.35	39.10	53.10	49.42	48.77	74.00	-25.23	Peak	0.00	
6	17741.748	14.46	40.14	51.55	47.77	50.82	74.00	-23.18	Peak	0.00	

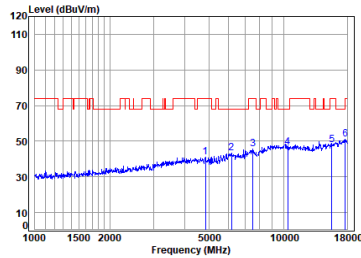
11a_TX_CH_44_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	5016.977	8.35	32.93	53.20	46.08	34.16	54.00	-19.84	Average	0.00	
2	7432.914	9.13	36.90	53.65	45.36	37.74	54.00	-16.26	Average	0.00	
3	8343.918	9.45	36.94	54.09	45.15	37.45	54.00	-16.55	Average	0.00	
4	11368.000	11.97	39.20	53.79	43.04	40.42	54.00	-13.58	Average	0.00	
5	15600.000	13.35	39.10	53.10	41.58	40.93	54.00	-13.07	Average	0.00	
6	pp17793.090	14.47	40.19	51.54	40.48	43.60	54.00	-10.40	Average	0.00	

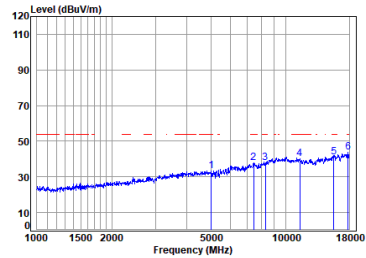
11a_TX_CH_44_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4845.948	8.27	31.72	53.16	54.28	41.11	74.00	-32.89	Peak	0.00	
2	6199.797	8.39	34.06	53.28	54.33	43.50	68.20	-24.70	Peak	0.00	
3	7519.349	9.23	36.51	53.74	53.57	45.57	74.00	-28.43	Peak	0.00	
4	10400.000	11.59	38.30	53.09	50.34	46.34	68.20	-21.86	Peak	0.00	
5	15600.000	13.35	39.10	53.10	48.56	47.91	74.00	-26.09	Peak	0.00	
6	pp17690.530	14.45	40.06	51.56	47.99	50.94	68.20	-17.26	Peak	0.00	

11a_TX_CH_44_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	5016.977	8.35	32.93	53.20	45.31	33.39	54.00	-20.61	Average	0.00	
2	7432.914	9.13	36.90	53.65	45.64	38.02	54.00	-15.98	Average	0.00	
3	8295.023	9.44	37.17	54.11	45.18	37.68	54.00	-16.32	Average	0.00	
4	11400.910	12.04	39.30	53.81	42.73	40.26	54.00	-13.74	Average	0.00	
5	15600.000	13.35	39.10	53.10	41.83	41.18	54.00	-12.82	Average	0.00	
6	pp17793.090	14.47	40.19	51.54	40.61	43.73	54.00	-10.27	Average	0.00	



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Compliance Certification Services (Kunshan) Inc.
Shenzhen Branch

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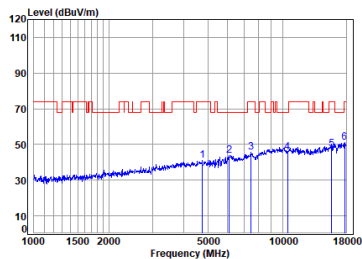
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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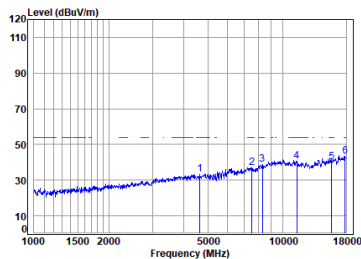
11a_TX_CH_48_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4748.888	8.23	32.01	53.13	53.90	41.01	74.00	-32.99	Peak	0.00
2	6106.616	8.34	34.00	53.29	54.90	43.95	68.20	-24.25	Peak	0.00
3	7476.006	9.19	36.90	53.69	53.14	45.54	74.00	-28.46	Peak	0.00
4	pp10400.000	11.54	38.46	53.05	49.69	45.04	68.20	-22.36	Peak	0.00
5	15720.000	13.35	38.68	53.04	48.24	47.23	74.00	-26.77	Peak	0.00
6	17741.748	14.46	40.14	51.55	47.98	51.03	74.00	-22.97	Peak	0.00

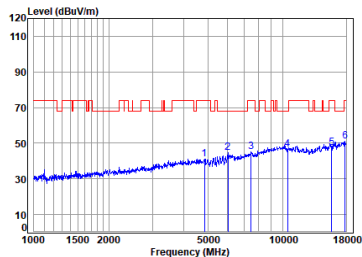
11a_TX_CH_48_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4640.339	8.18	31.52	53.10	46.64	33.24	54.00	-20.76	Average	0.00
2	7519.349	9.23	36.51	53.74	44.99	36.99	54.00	-17.01	Average	0.00
3	8295.823	9.44	37.17	54.11	46.14	38.04	54.00	-15.96	Average	0.00
4	11400.910	12.04	39.30	53.81	43.18	40.71	54.00	-13.29	Average	0.00
5	15720.000	13.35	38.68	53.04	41.26	40.25	54.00	-13.75	Average	0.00
6	pp17793.090	14.47	40.19	51.54	40.83	43.15	54.00	-10.85	Average	0.00

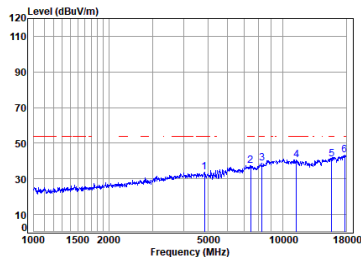
11a_TX_CH_48_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4845.948	8.27	31.72	53.16	54.42	41.25	74.00	-32.75	Peak	0.00
2	6018.999	8.25	33.38	53.30	56.59	44.92	68.20	-23.28	Peak	0.00
3	7476.006	9.19	36.90	53.69	52.64	45.04	74.00	-28.96	Peak	0.00
4	pp10400.000	11.54	38.46	53.05	50.52	46.67	68.20	-21.53	Peak	0.00
5	15720.000	13.35	38.68	53.04	48.50	47.49	74.00	-26.51	Peak	0.00
6	17844.590	14.47	40.14	51.55	47.54	51.31	74.00	-22.69	Peak	0.00

11a_TX_CH_48_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4845.948	8.27	31.72	53.16	47.13	33.96	54.00	-20.04	Average	0.00
2	7432.914	9.13	36.90	53.65	45.19	37.57	54.00	-16.43	Average	0.00
3	8240.005	9.44	36.90	54.12	46.45	38.57	54.00	-15.43	Average	0.00
4	11335.190	11.90	39.11	53.77	43.20	40.44	54.00	-13.56	Average	0.00
5	15720.000	13.35	38.68	53.04	42.08	41.07	54.00	-12.93	Average	0.00
6	pp17741.740	14.46	40.14	51.55	40.21	43.26	54.00	-10.74	Average	0.00

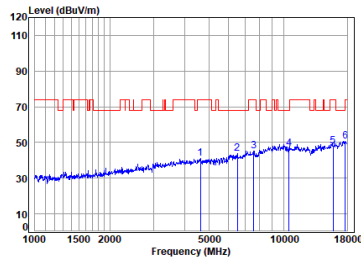
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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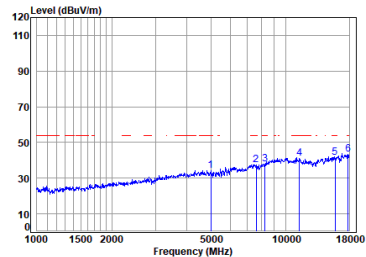
11a_TX_CH_52_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4626.946	8.18	31.55	53.10	54.32	40.95	74.00	-33.05	Peak	0.00
2	6526.373	8.72	35.05	53.25	53.21	43.73	68.20	-24.47	Peak	0.00
3	7584.833	9.25	36.04	53.00	53.78	45.27	74.00	-28.73	Peak	0.00
4	10520.000	11.51	38.50	53.83	50.53	46.71	68.20	-21.49	Peak	0.00
5	15780.000	13.35	38.62	53.01	48.83	47.79	74.00	-26.21	Peak	0.00
6	pp17690.538	14.45	40.06	51.56	47.62	50.57	68.20	-17.63	Peak	0.00

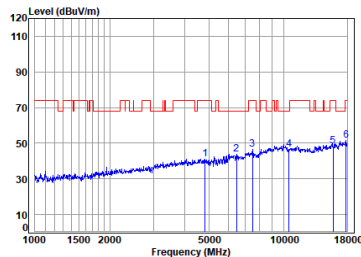
11a_TX_CH_52_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	5002.497	8.34	32.91	53.20	45.99	34.04	54.00	-19.96	Average	0.00
2	7606.788	9.26	36.14	53.82	45.98	37.56	54.00	-16.44	Average	0.00
3	8248.005	9.44	36.00	54.12	45.98	38.02	54.00	-15.98	Average	0.00
4	11368.000	11.97	39.20	53.79	43.53	40.91	54.00	-13.09	Average	0.00
5	15780.000	13.35	38.62	53.01	42.65	41.61	54.00	-12.39	Average	0.00
6	pp17793.090	14.47	40.19	51.54	40.13	43.25	54.00	-10.75	Average	0.00

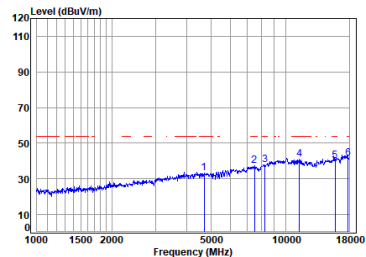
11a_TX_CH_52_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4831.962	8.27	31.81	53.15	54.18	41.11	74.00	-32.89	Peak	0.00
2	6470.026	8.70	35.00	53.25	53.32	43.77	68.20	-24.43	Peak	0.00
3	7497.646	9.22	36.90	53.71	54.10	46.51	74.00	-27.49	Peak	0.00
4	pp10520.000	11.51	38.50	53.83	50.40	46.58	68.20	-21.62	Peak	0.00
5	15780.000	13.35	38.62	53.01	49.54	48.50	74.00	-25.50	Peak	0.00
6	17844.590	14.47	40.83	51.53	47.84	51.61	74.00	-22.39	Peak	0.00

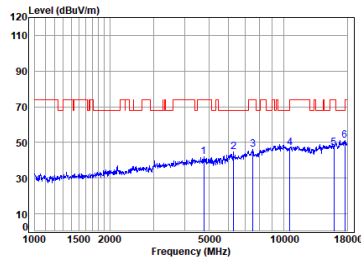
11a_TX_CH_52_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4694.299	8.21	32.21	53.12	45.82	33.12	54.00	-20.88	Average	0.00
2	7497.646	9.22	36.90	53.71	45.16	37.57	54.00	-16.43	Average	0.00
3	8248.005	9.44	36.00	54.12	45.63	37.75	54.00	-16.25	Average	0.00
4	11368.000	11.97	39.20	53.79	43.80	41.18	54.00	-12.82	Average	0.00
5	15780.000	13.35	38.62	53.01	41.31	40.27	54.00	-13.73	Average	0.00
6	pp17844.590	14.47	40.83	51.53	37.73	41.50	54.00	-12.50	Average	0.00

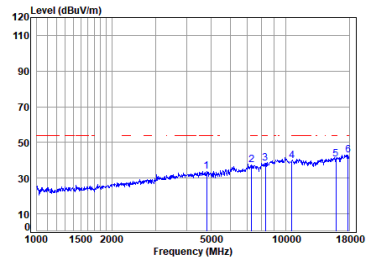
11a_TX_CH_60_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4776.419	8.24	32.00	53.14	54.90	42.00	74.00	-32.00	Peak	0.00	
2	6285.695	8.52	34.70	53.27	54.57	44.52	68.20	-23.68	Peak	0.00	
3	7519.349	9.23	36.53	53.74	54.12	46.12	74.00	-27.88	Peak	0.00	
4	10600.000	11.45	38.50	53.79	50.91	47.07	68.20	-21.13	Peak	0.00	
5	15900.000	13.35	37.90	52.95	48.70	47.00	74.00	-27.00	Peak	0.00	
6	pp17639.470	14.45	39.86	51.57	48.40	51.14	68.20	-17.06	Peak	0.00	

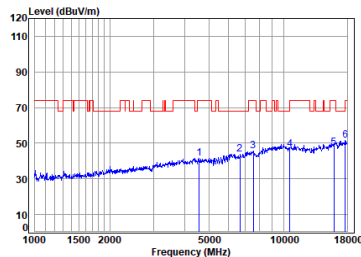
11a_TX_CH_60_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4818.016	8.26	31.89	53.15	46.97	33.97	54.00	-20.03	Average	0.00	
2	7305.122	8.96	36.11	53.52	45.83	37.38	54.00	-16.62	Average	0.00	
3	8295.623	9.44	37.17	54.11	46.04	38.54	54.00	-15.46	Average	0.00	
4	10600.000	11.45	38.50	53.79	43.55	39.71	54.00	-14.29	Average	0.00	
5	15900.000	13.35	37.90	52.95	42.35	40.65	54.00	-13.35	Average	0.00	
6	pp17844.590	14.47	40.83	51.53	38.91	42.68	54.00	-11.32	Average	0.00	

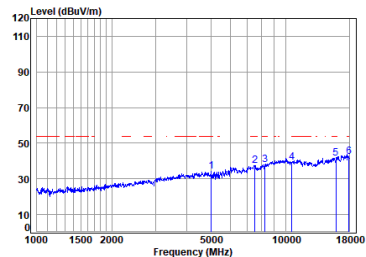
11a_TX_CH_60_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4573.760	8.15	31.55	53.08	54.80	41.42	74.00	-32.58	Peak	0.00	
2	6679.040	8.66	34.75	53.23	53.67	43.05	68.20	-24.35	Peak	0.00	
3	7541.114	9.24	36.00	53.76	53.97	45.53	74.00	-28.47	Peak	0.00	
4	10600.000	11.45	38.50	53.79	50.58	46.74	68.20	-21.46	Peak	0.00	
5	15900.000	13.35	37.90	52.95	49.36	47.66	74.00	-26.34	Peak	0.00	
6	pp17690.530	14.45	40.06	51.56	48.53	51.48	68.20	-16.72	Peak	0.00	

11a_TX_CH_60_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	5016.977	8.35	32.93	53.20	46.14	34.22	54.00	-19.78	Average	0.00	
2	7519.349	9.23	36.51	53.74	45.59	37.59	54.00	-16.41	Average	0.00	
3	8271.800	9.44	36.90	54.11	45.53	37.84	54.00	-16.16	Average	0.00	
4	10600.000	11.45	38.50	53.79	43.25	39.41	54.00	-14.59	Average	0.00	
5	15900.000	13.35	37.90	52.95	43.41	41.71	54.00	-12.29	Average	0.00	
6	pp17948.050	14.48	42.37	51.51	37.21	42.55	54.00	-11.45	Average	0.00	

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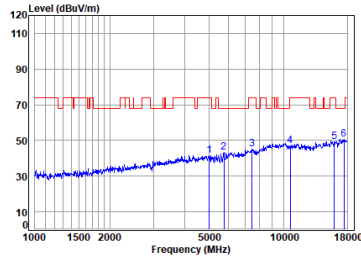
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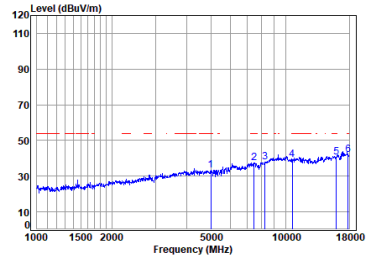
11a_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	5016.977	8.35	32.93	53.20	53.47	41.55	74.00	-32.45	Peak	0.00	
2	5746.982	8.41	33.38	53.28	54.73	43.24	68.20	-24.96	Peak	0.00	
3	7476.006	9.19	36.90	53.69	52.63	45.03	74.00	-28.97	Peak	0.00	
4	10640.000	11.42	38.38	53.77	50.91	46.94	74.00	-27.06	Peak	0.00	
5	15960.000	13.35	37.60	52.92	51.39	49.42	74.00	-24.58	Peak	0.00	
6	pp17487.188	14.43	39.29	51.60	48.73	50.85	68.20	-17.35	Peak	0.00	

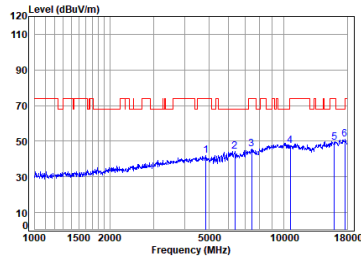
11a_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	5002.497	8.34	32.91	53.20	45.47	33.52	54.00	-20.48	Average	0.00	
2	7454.429	9.16	36.90	53.67	45.22	37.61	54.00	-16.39	Average	0.00	
3	8271.000	9.44	36.90	54.11	45.70	38.01	54.00	-15.99	Average	0.00	
4	10640.000	11.42	38.38	53.77	43.34	39.37	54.00	-14.63	Average	0.00	
5	15960.000	13.35	37.60	52.92	42.51	40.54	54.00	-13.46	Average	0.00	
6	pp17793.090	14.47	40.19	51.54	39.81	42.13	54.00	-11.87	Average	0.00	

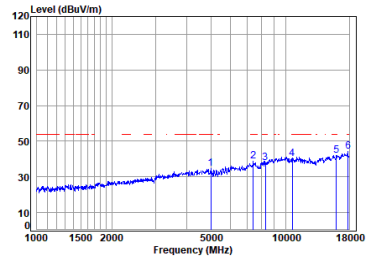
11a_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4874.043	8.29	31.99	53.17	55.00	42.11	74.00	-31.89	Peak	0.00	
2	6358.789	8.59	34.01	53.26	54.90	44.24	68.20	-23.96	Peak	0.00	
3	7432.914	9.13	36.90	53.65	53.03	45.41	74.00	-28.59	Peak	0.00	
4	10640.000	11.42	38.38	53.77	51.29	47.32	74.00	-26.68	Peak	0.00	
5	15960.000	13.35	37.60	52.92	51.34	49.37	74.00	-24.63	Peak	0.00	
6	pp17439.470	14.45	39.86	51.57	48.18	50.92	68.20	-17.28	Peak	0.00	

11a_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	5002.497	8.34	32.91	53.20	46.61	34.66	54.00	-19.34	Average	0.00	
2	7411.461	9.10	36.90	53.63	46.26	38.63	54.00	-15.37	Average	0.00	
3	8295.023	9.44	37.17	54.11	45.33	37.83	54.00	-16.17	Average	0.00	
4	10640.000	11.42	38.38	53.77	44.20	40.23	54.00	-13.77	Average	0.00	
5	15960.000	13.35	37.60	52.92	44.08	42.11	54.00	-11.89	Average	0.00	
6	pp17793.090	14.47	40.19	51.54	41.16	44.28	54.00	-9.72	Average	0.00	



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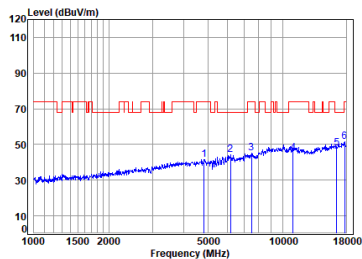
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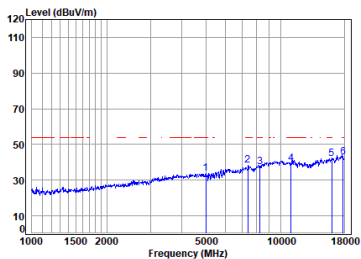
11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4831.962	8.27	31.81	53.15	54.76	41.69	74.00	-32.31	Peak	0.00
2	6177.627	8.41	34.17	53.28	54.76	44.06	68.20	-24.14	Peak	0.00
3	7497.646	9.22	36.90	53.71	52.79	45.20	74.00	-28.00	Peak	0.00
4	11000.000	11.15	38.80	53.60	48.74	45.09	74.00	-28.91	Peak	0.00
5	16500.000	15.33	38.50	52.29	46.42	47.96	68.20	-20.24	Peak	0.00
6	17741.748	14.46	40.14	51.55	48.41	51.46	74.00	-22.54	Peak	0.00

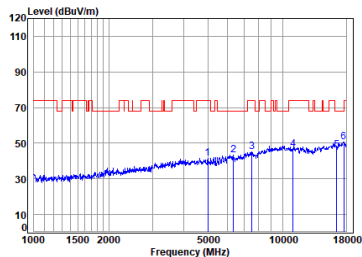
11a_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	5002.497	8.34	32.91	53.20	45.77	33.82	54.00	-20.18	Average	0.00
2	7398.070	9.08	36.76	53.61	45.90	38.13	54.00	-15.87	Average	0.00
3	8271.800	9.44	36.90	54.11	45.27	37.58	54.00	-16.42	Average	0.00
4	11000.000	11.15	38.80	53.60	43.10	39.45	54.00	-14.55	Average	0.00
5	16034.730	13.49	37.30	52.86	44.18	42.11	54.00	-11.89	Average	0.00
6	17844.590	14.47	40.83	51.53	39.00	42.77	54.00	-11.23	Average	0.00

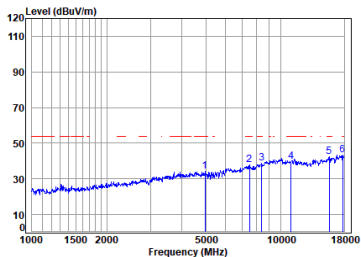
11a_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	5002.497	8.34	32.91	53.20	53.55	41.60	74.00	-32.40	Peak	0.00
2	6340.436	8.57	33.97	53.26	54.25	43.53	68.20	-24.67	Peak	0.00
3	7519.349	9.23	36.51	53.74	52.96	44.96	74.00	-29.04	Peak	0.00
4	11000.000	11.15	38.80	53.60	50.29	46.64	74.00	-27.36	Peak	0.00
5	16500.000	15.33	38.50	52.29	44.75	46.29	68.20	-21.91	Peak	0.00
6	177639.470	14.45	39.86	51.57	48.07	50.81	68.20	-17.39	Peak	0.00

11a_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	4959.307	8.32	32.25	53.19	46.70	34.08	54.00	-19.92	Average	0.00
2	7497.646	9.22	36.90	53.71	45.27	37.68	54.00	-16.32	Average	0.00
3	8392.292	9.46	37.32	54.08	46.31	39.01	54.00	-14.99	Average	0.00
4	11000.000	11.15	38.80	53.60	43.35	39.70	54.00	-14.30	Average	0.00
5	15668.210	13.35	38.83	53.06	43.24	42.36	54.00	-11.64	Average	0.00
6	17741.740	14.46	40.14	51.55	40.18	43.23	54.00	-10.77	Average	0.00



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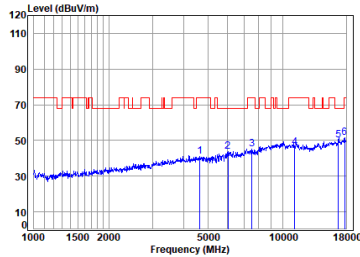
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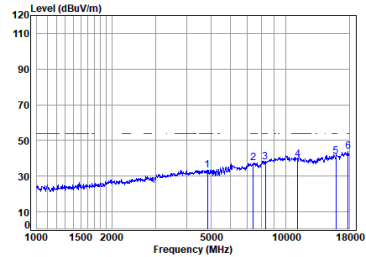
11a_TX_CH_116_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4653.771	8.19	31.56	53.10	54.57	41.22	74.00	-32.78	Peak	0.00
2	6018.999	8.25	33.38	53.30	55.52	43.85	68.20	-24.35	Peak	0.00
3	7519.349	9.23	36.51	53.74	53.14	45.14	74.00	-28.86	Peak	0.00
4	11160.000	11.51	39.20	53.68	48.96	46.01	74.00	-27.99	Peak	0.00
5	pp16740.000	14.87	39.10	52.01	48.04	50.00	68.20	-18.20	Peak	0.00
6	17741.740	14.46	40.14	51.55	48.32	51.37	74.00	-22.63	Peak	0.00

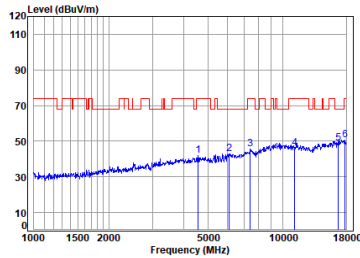
11a_TX_CH_116_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4845.948	8.27	31.72	53.16	46.63	33.46	54.00	-20.54	Average	0.00
2	7411.461	9.10	36.90	53.63	45.15	37.52	54.00	-16.48	Average	0.00
3	8295.823	9.44	37.17	54.11	45.24	37.74	54.00	-16.26	Average	0.00
4	11160.000	11.51	39.20	53.68	42.20	39.23	54.00	-14.77	Average	0.00
5	15942.300	13.35	37.69	52.93	42.79	40.90	54.00	-13.10	Average	0.00
6	pp17793.090	14.47	40.19	51.54	40.54	43.66	54.00	-10.34	Average	0.00

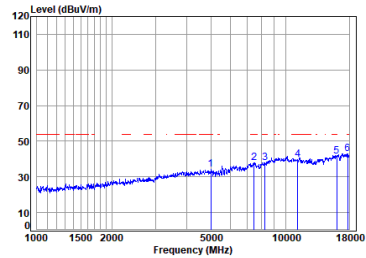
11a_TX_CH_116_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4573.760	8.15	31.55	53.08	55.51	42.13	74.00	-31.87	Peak	0.00
2	6008.991	8.32	33.09	53.29	54.15	43.07	68.20	-25.13	Peak	0.00
3	7411.461	9.10	36.90	53.63	53.17	45.54	74.00	-28.46	Peak	0.00
4	11160.000	11.51	39.20	53.68	48.86	45.89	74.00	-28.11	Peak	0.00
5	pp16740.000	14.87	39.10	52.01	46.64	48.60	68.20	-19.60	Peak	0.00
6	17793.090	14.47	40.19	51.54	47.73	50.85	74.00	-23.15	Peak	0.00

11a_TX_CH_116_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5002.497	8.34	32.91	53.20	46.08	34.13	54.00	-19.87	Average	0.00
2	7476.006	9.19	36.90	53.69	45.58	37.98	54.00	-16.02	Average	0.00
3	8271.800	9.44	36.90	54.11	45.40	37.71	54.00	-16.29	Average	0.00
4	11160.000	11.51	39.20	53.68	42.70	39.73	54.00	-14.27	Average	0.00
5	16034.730	13.49	37.30	52.86	43.61	41.54	54.00	-12.46	Average	0.00
6	pp17741.740	14.46	40.14	51.55	40.02	43.07	54.00	-10.93	Average	0.00



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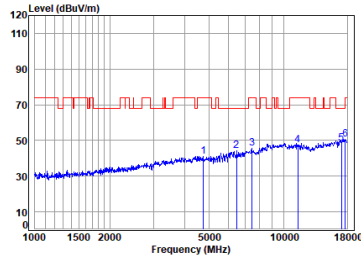
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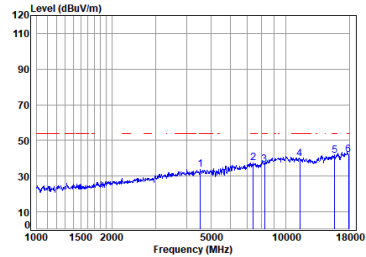
11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4762.633	8.24	32.00	53.13	54.13	41.24	74.00	-32.76	Peak		0.00
2	6470.026	8.70	35.00	53.25	53.90	44.35	68.20	-23.85	Peak		0.00
3	7454.429	9.16	36.90	53.67	53.18	45.57	74.00	-28.43	Peak		0.00
4	11400.000	12.04	39.30	53.81	49.86	47.39	74.00	-26.61	Peak		0.00
5	17100.000	14.39	39.50	51.68	46.25	48.46	68.20	-19.74	Peak		0.00
6	pp17690.538	14.45	40.06	51.56	47.76	50.71	68.20	-17.49	Peak		0.00

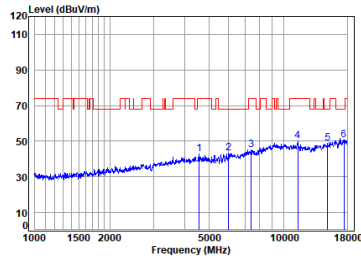
11a_TX_CH_140_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4547.396	8.14	31.47	53.07	47.07	33.61	54.00	-20.39	Average		0.00
2	7411.461	9.10	36.90	53.63	45.12	37.49	54.00	-16.51	Average		0.00
3	8224.200	9.43	36.75	54.13	44.34	36.39	54.00	-17.61	Average		0.00
4	11400.000	12.04	39.30	53.81	42.13	39.66	54.00	-14.34	Average		0.00
5	15759.050	13.35	38.64	53.02	42.52	41.49	54.00	-12.51	Average		0.00
6	pp17896.250	14.48	41.55	51.52	37.50	42.01	54.00	-11.99	Average		0.00

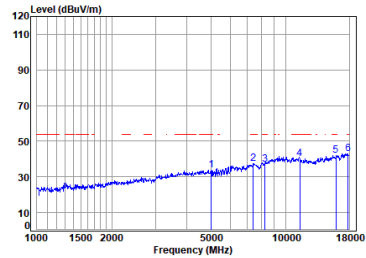
11a_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	4573.760	8.15	31.55	53.08	56.38	43.00	74.00	-31.00	Peak		0.00
2	6001.626	8.23	33.31	53.30	54.98	43.22	68.20	-24.98	Peak		0.00
3	7411.461	9.10	36.90	53.63	52.71	45.00	74.00	-28.92	Peak		0.00
4	11400.000	12.04	39.30	53.81	52.45	49.98	74.00	-24.02	Peak		0.00
5	15003.420	12.34	39.40	53.40	50.34	48.68	68.20	-19.52	Peak		0.00
6	pp17487.180	14.43	39.29	51.60	48.56	50.68	68.20	-17.52	Peak		0.00

11a_TX_CH_140_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5016.977	8.35	32.93	53.20	45.61	33.69	54.00	-20.31	Average		0.00
2	7411.461	9.10	36.90	53.63	44.95	37.32	54.00	-16.68	Average		0.00
3	8240.005	9.44	36.80	54.12	44.97	37.09	54.00	-16.91	Average		0.00
4	11400.000	12.04	39.30	53.81	42.47	40.00	54.00	-14.00	Average		0.00
5	15942.300	13.35	37.69	52.93	43.69	41.80	54.00	-12.20	Average		0.00
6	pp17844.590	14.47	40.83	51.53	38.89	42.66	54.00	-11.34	Average		0.00



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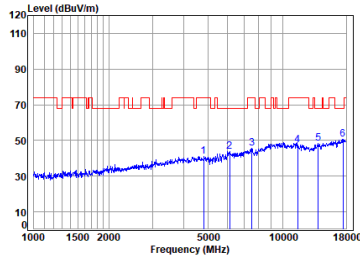
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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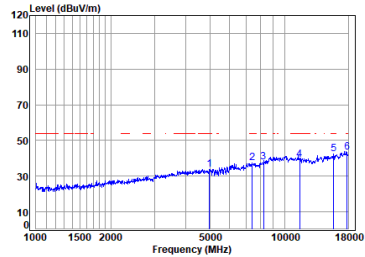
11a_TX_CH_149_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4818.016	8.26	31.89	53.15	54.29	41.29	74.00	-32.71	Peak	0.00
2	6124.292	8.36	34.00	53.29	54.91	43.98	68.20	-24.22	Peak	0.00
3	7519.349	9.23	36.51	53.74	53.55	45.55	74.00	-28.45	Peak	0.00
4	11490.000	12.24	39.21	53.85	49.68	47.28	74.00	-26.72	Peak	0.00
5	13917.240	10.81	40.34	53.92	51.30	48.53	68.20	-19.67	Peak	0.00
6	pp17487.188	14.43	39.29	51.60	48.39	50.51	68.20	-17.69	Peak	0.00

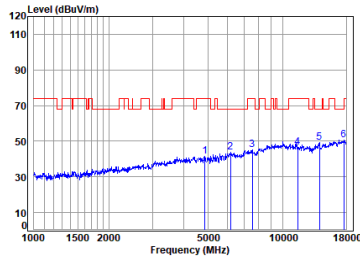
11a_TX_CH_149_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4988.058	8.34	32.71	53.20	45.95	33.80	54.00	-20.20	Average	0.00
2	7411.461	9.10	36.90	53.63	45.23	37.60	54.00	-16.40	Average	0.00
3	8224.200	9.43	36.75	54.13	45.87	37.92	54.00	-16.08	Average	0.00
4	11490.000	12.24	39.21	53.85	41.82	39.42	54.00	-14.58	Average	0.00
5	15759.050	13.35	38.64	53.02	43.26	42.23	54.00	-11.77	Average	0.00
6	pp17844.590	14.47	40.83	51.53	39.45	43.22	54.00	-10.78	Average	0.00

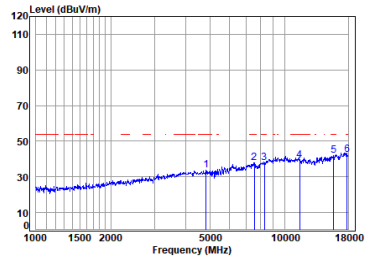
11a_TX_CH_149_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4874.043	8.29	31.99	53.17	54.46	41.57	74.00	-32.43	Peak	0.00
2	6177.627	8.41	34.17	53.28	54.33	43.63	68.20	-24.57	Peak	0.00
3	7541.114	9.24	36.00	53.76	53.40	44.96	74.00	-29.04	Peak	0.00
4	11490.000	12.24	39.21	53.85	48.77	46.37	74.00	-27.63	Peak	0.00
5	14038.450	10.64	40.69	53.88	51.98	49.43	68.20	-18.77	Peak	0.00
6	pp17639.470	14.45	39.86	51.57	48.01	50.75	68.20	-17.45	Peak	0.00

11a_TX_CH_149_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	4831.962	8.27	31.81	53.15	46.96	33.89	54.00	-20.11	Average	0.00
2	7541.114	9.24	36.00	53.76	46.20	37.76	54.00	-16.24	Average	0.00
3	8295.023	9.44	37.17	54.11	45.50	38.00	54.00	-16.00	Average	0.00
4	11490.000	12.24	39.21	53.85	41.55	39.15	54.00	-14.85	Average	0.00
5	15759.050	13.35	38.64	53.02	42.78	41.75	54.00	-12.25	Average	0.00
6	pp17844.590	14.47	40.83	51.53	38.74	42.51	54.00	-11.49	Average	0.00



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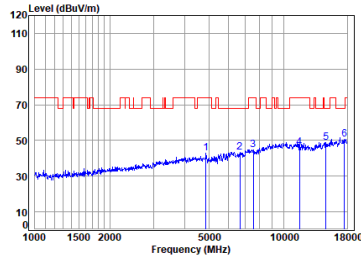
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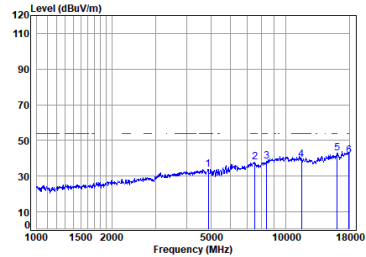
11a_TX_CH_157_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4874.043	8.29	31.99	53.17	55.64	42.75	74.00	-31.25	Peak	0.00	
2	6679.040	8.66	34.75	53.23	53.34	43.52	68.20	-24.68	Peak	0.00	
3	7541.114	9.24	36.00	53.76	53.38	44.94	74.00	-29.00	Peak	0.00	
4	11570.000	12.16	38.57	53.89	49.21	46.05	74.00	-27.95	Peak	0.00	
5	14788.150	11.82	40.05	53.50	50.50	48.87	68.20	-19.33	Peak	0.00	
6	pp17537.800	14.43	39.45	51.59	48.47	50.76	68.20	-17.44	Peak	0.00	

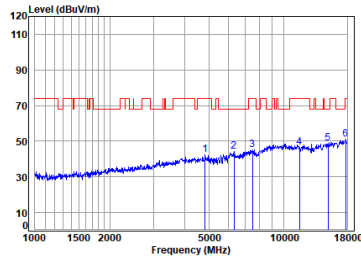
11a_TX_CH_157_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4888.151	8.29	32.16	53.17	46.70	33.98	54.00	-20.02	Average	0.00	
2	7519.349	9.23	36.51	53.74	45.87	37.87	54.00	-16.13	Average	0.00	
3	8392.292	9.46	37.32	54.08	45.83	38.53	54.00	-15.47	Average	0.00	
4	11570.000	12.16	38.57	53.89	42.49	39.33	54.00	-14.67	Average	0.00	
5	pp16127.690	13.86	37.29	52.74	44.49	42.90	54.00	-11.10	Average	0.00	
6	17948.050	14.48	42.37	51.51	36.36	41.70	54.00	-12.30	Average	0.00	

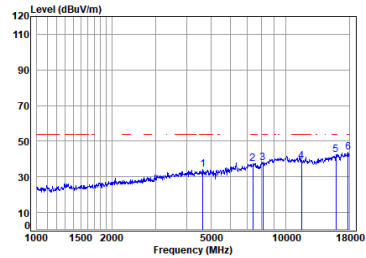
11a_TX_CH_157_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4831.962	8.27	31.81	53.15	55.34	42.27	74.00	-31.73	Peak	0.00	
2	6322.136	8.56	34.30	53.27	54.76	44.35	68.20	-23.85	Peak	0.00	
3	7497.646	9.22	36.90	53.71	52.76	45.17	74.00	-28.83	Peak	0.00	
4	11570.000	12.16	38.57	53.89	49.91	46.75	74.00	-27.25	Peak	0.00	
5	pp15090.400	12.52	39.31	53.35	50.55	49.03	68.20	-19.17	Peak	0.00	
6	17741.740	14.46	40.14	51.55	48.20	51.25	74.00	-22.75	Peak	0.00	

11a_TX_CH_157_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Remark	Factor
1	4653.771	8.19	31.56	53.10	47.38	34.03	54.00	-19.97	Average	0.00	
2	7390.070	9.00	36.76	53.61	45.27	37.50	54.00	-16.50	Average	0.00	
3	8106.200	9.42	36.19	54.17	46.64	38.08	54.00	-15.92	Average	0.00	
4	11570.000	12.16	38.57	53.89	41.87	38.71	54.00	-15.29	Average	0.00	
5	15896.290	13.35	37.93	52.95	43.98	42.31	54.00	-11.69	Average	0.00	
6	pp17793.090	14.47	40.19	51.54	40.49	43.61	54.00	-10.39	Average	0.00	



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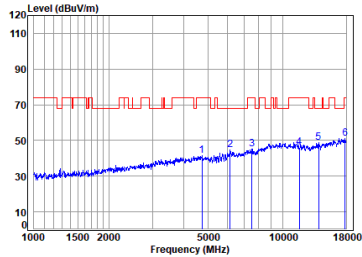
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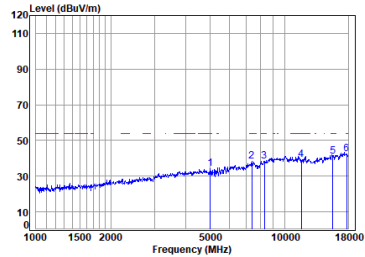
11a_TX_CH_165_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Limit Remark	Factor
1	4735.181	8.23	32.09	53.13	54.51	41.70	74.00	-32.30	Peak	0.00
2	6142.019	8.38	34.00	53.28	55.49	44.59	68.20	-23.61	Peak	0.00
3	7519.349	9.23	36.51	53.74	53.28	45.28	74.00	-28.72	Peak	0.00
4	11650.000	12.06	38.60	53.93	49.29	45.93	74.00	-28.07	Peak	0.00
5	13957.530	10.71	40.66	53.91	51.58	49.04	68.20	-19.16	Peak	0.00
6	17793.098	14.47	48.19	51.54	47.87	50.99	74.00	-23.01	Peak	0.00

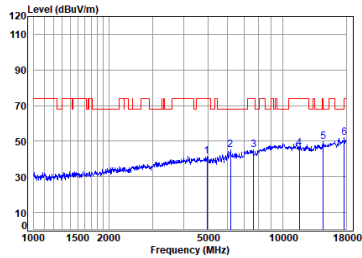
11a_TX_CH_165_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Limit Remark	Factor
1	5016.977	8.35	32.93	53.20	46.00	34.08	54.00	-19.92	Average	0.00
2	7390.070	9.08	36.76	53.61	45.91	38.14	54.00	-15.86	Average	0.00
3	8295.823	9.44	37.17	54.11	45.73	38.23	54.00	-15.77	Average	0.00
4	11650.000	12.06	38.60	53.93	42.51	39.24	54.00	-14.76	Average	0.00
5	15622.990	13.35	39.01	53.08	41.79	41.07	54.00	-12.93	Average	0.00
6	17741.740	14.46	40.14	51.55	39.56	42.61	54.00	-11.39	Average	0.00

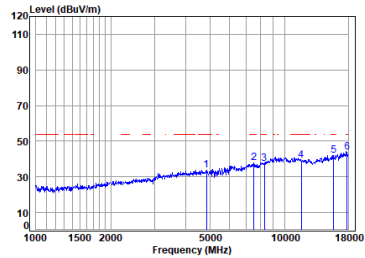
11a_TX_CH_165_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Limit Remark	Factor
1	4973.662	8.33	32.48	53.19	53.68	41.30	74.00	-32.70	Peak	0.00
2	6159.797	8.39	34.06	53.28	55.92	45.09	68.20	-23.11	Peak	0.00
3	7628.806	9.27	36.27	53.84	53.25	44.95	74.00	-29.05	Peak	0.00
4	11650.000	12.06	38.60	53.93	49.14	45.87	74.00	-28.13	Peak	0.00
5	14575.970	11.31	40.21	53.61	51.74	49.65	68.20	-18.55	Peak	0.00
6	17690.530	14.45	48.06	51.56	48.96	51.91	68.20	-16.29	Peak	0.00

11a_TX_CH_165_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Limit Remark	Factor
1	4845.948	8.27	31.72	53.16	46.87	33.70	54.00	-20.30	Average	0.00
2	7519.349	9.23	36.51	53.74	46.04	38.04	54.00	-15.96	Average	0.00
3	8295.823	9.44	37.17	54.11	44.97	37.47	54.00	-16.53	Average	0.00
4	11650.000	12.06	38.60	53.93	42.69	39.42	54.00	-14.58	Average	0.00
5	15759.050	13.35	38.64	53.02	43.14	42.11	54.00	-11.89	Average	0.00
6	17844.590	14.47	40.83	51.53	39.85	43.62	54.00	-10.38	Average	0.00



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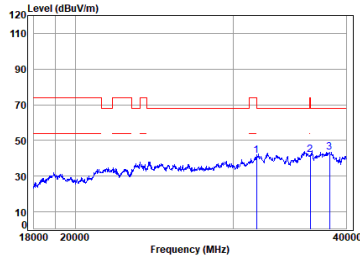
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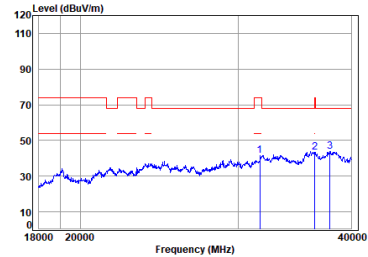
11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	31807.680	11.18	40.27	44.89	44.34	41.36	68.20	-26.84	Peak		-9.54
2	36490.470	12.69	42.49	47.52	43.69	41.81	74.00	-32.19	Peak		-9.54
3	pp38342.408	12.64	42.33	46.91	44.92	43.44	68.20	-24.76	Peak		-9.54

11a_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	31680.940	11.19	40.23	44.88	44.55	41.55	74.00	-32.45	Peak		-9.54
2	36432.240	12.67	42.42	47.56	45.17	43.16	74.00	-30.84	Peak		-9.54
3	pp37805.970	12.83	42.45	46.76	44.73	43.71	68.20	-24.49	Peak		-9.54



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7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.10.5 & 12.7.2
 Measurement Distance: 3m
 Test Engineer: Rex Liu

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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7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

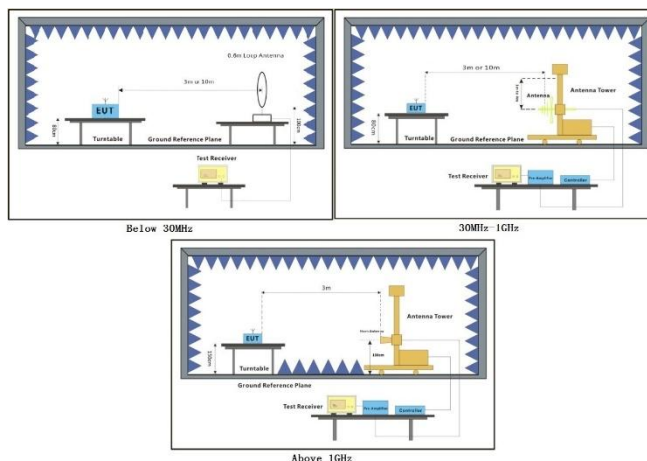
Humidity: 51.7 % RH

Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

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

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

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

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



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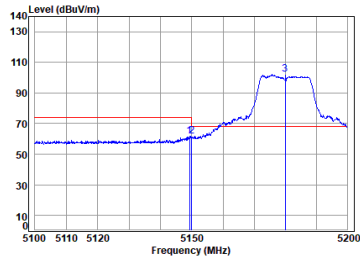
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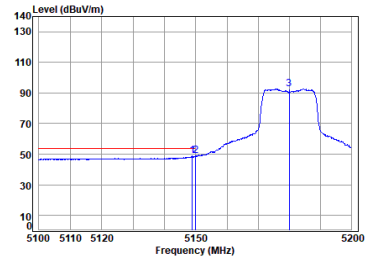
11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5180 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5149.257	8.42	32.90	32.86	53.42	61.88	74.00	-12.12	Peak		0.00
2	5149.980	8.42	32.90	32.86	53.19	61.56	74.00	-12.44	Peak		0.00
3 pp	5180.000	8.43	33.20	32.87	93.21	101.97	68.20	33.77	Peak		0.00

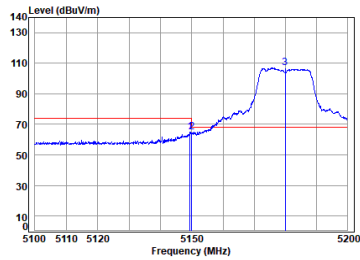
11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5180 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5149.857	8.42	32.91	32.86	48.26	48.73	54.00	-5.27	Average		0.00
2 pp	5149.980	8.42	32.90	32.86	48.37	48.83	54.00	-5.17	Average		0.00
3	5180.000	8.43	33.20	32.87	83.99	92.75	-----	-----	Average		0.00

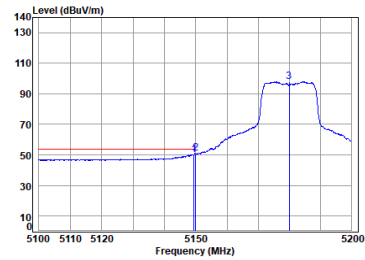
11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5180 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5149.357	8.42	32.90	32.86	56.36	64.82	74.00	-9.18	Peak		0.00
2	5149.980	8.42	32.90	32.86	56.31	64.77	74.00	-9.23	Peak		0.00
3 pp	5180.000	8.43	33.20	32.87	98.28	107.04	68.20	38.84	Peak		0.00

11a_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5180 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5149.458	8.42	32.90	32.86	41.68	50.06	54.00	-3.94	Average		0.00
2 pp	5149.980	8.42	32.90	32.86	42.38	50.84	54.00	-3.16	Average		0.00
3	5180.000	8.43	33.20	32.87	89.29	98.05	-----	-----	Average		0.00



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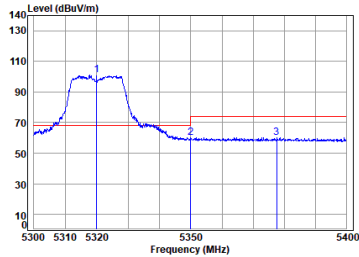
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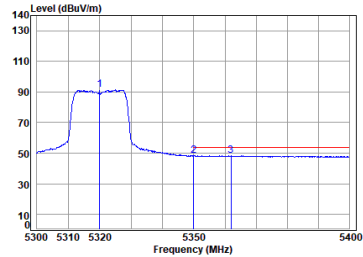
11a_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5320 Band edge

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	pp 5320.000	8.50	32.62	32.93	92.84	101.03	68.20	32.83	Peak	0.00
2	5350.020	8.52	32.50	32.94	52.22	60.30	74.00	-13.70	Peak	0.00
3	5377.638	8.53	32.72	32.95	52.08	60.38	74.00	-13.62	Peak	0.00

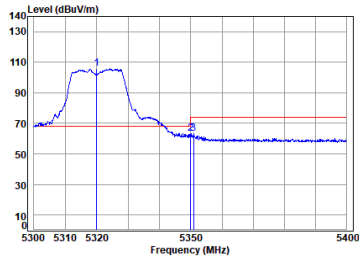
11a_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5320 Band edge

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5320.000	8.50	32.62	32.93	83.15	91.34	-----	-----	Average	0.00
2	pp 5350.020	8.52	32.50	32.94	40.53	48.61	54.00	-5.39	Average	0.00
3	5361.980	8.52	32.60	32.95	40.30	48.47	54.00	-5.53	Average	0.00

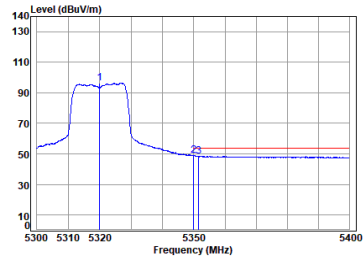
11a_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5320 Band edge

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	pp 5320.000	8.50	32.62	32.93	97.50	105.69	68.20	37.49	Peak	0.00
2	5350.020	8.52	32.50	32.94	55.06	63.14	74.00	-10.86	Peak	0.00
3	5350.866	8.52	32.51	32.94	55.15	63.24	74.00	-10.76	Peak	0.00

11a_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5320 Band edge

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5320.000	8.50	32.62	32.93	88.23	96.42	-----	-----	Average	0.00
2	pp 5350.020	8.52	32.50	32.94	40.77	48.85	54.00	-5.15	Average	0.00
3	5351.566	8.52	32.51	32.94	40.54	48.63	54.00	-5.37	Average	0.00



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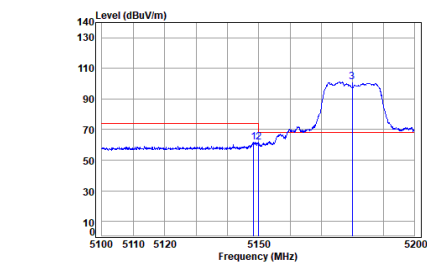
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11ac_VHT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

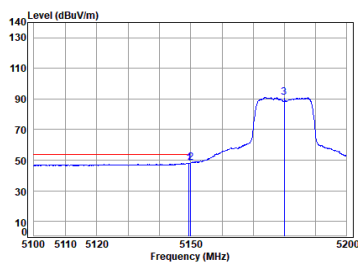
Job No : 00405AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5148.357	8.42	32.91	32.86		53.54	62.01	74.00	-11.99	Peak	0.00
2	5149.988	8.42	32.90	32.86		53.46	61.92	74.00	-12.08	Peak	0.00
3 pp	5180.000	8.43	33.20	32.87		92.63	101.39	68.20	33.19	Peak	0.00

11ac_VHT(20M)_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

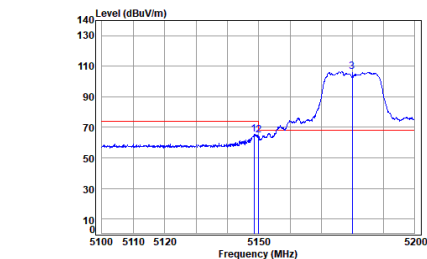
Job No : 00405AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5149.458	8.42	32.90	32.86		39.68	48.06	54.00	-5.94	Average	0.00
2 pp	5149.988	8.42	32.90	32.86		39.85	48.31	54.00	-5.69	Average	0.00
3	5180.000	8.43	33.20	32.87		62.26	91.02	-----	-----	Average	0.00

11ac_VHT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL

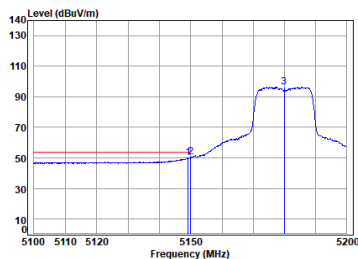
Job No : 00405AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5148.458	8.42	32.91	32.86		56.97	65.44	74.00	-8.56	Peak	0.00
2	5149.988	8.42	32.90	32.86		56.22	64.68	74.00	-9.32	Peak	0.00
3 pp	5180.000	8.43	33.20	32.87		97.89	106.65	68.20	38.45	Peak	0.00

11ac_VHT(20M)_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL

Job No : 00405AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5149.157	8.42	32.91	32.86		41.39	49.86	54.00	-4.14	Average	0.00
2 pp	5149.988	8.42	32.90	32.86		41.89	50.35	54.00	-3.65	Average	0.00
3	5180.000	8.43	33.20	32.87		67.45	96.21	-----	-----	Average	0.00

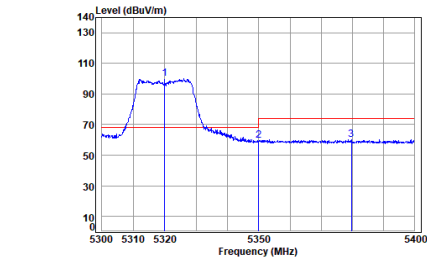
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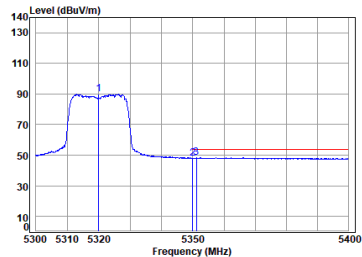
11ac_VHT(20M)_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5320 Band edge
: 5G WiFi 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5320.000	8.50	32.62	32.93		91.78	99.97	68.20	31.77	Peak	0.00
2	5350.020	8.52	32.50	32.94		51.64	59.72	74.00	-14.28	Peak	0.00
3	5379.758	8.53	32.74	32.95		51.78	60.10	74.00	-13.90	Peak	0.00

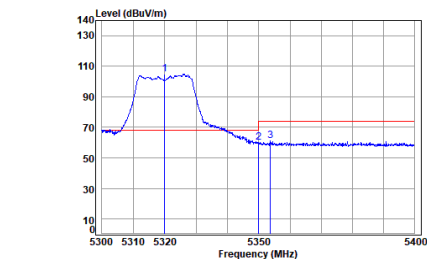
11ac_VHT(20M)_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5320 Band edge
: 5G WiFi 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5320.000	8.50	32.62	32.93		81.59	89.78	-----	-----	Average	0.00
2	5350.020	8.52	32.50	32.94		39.98	48.06	54.00	-5.94	Average	0.00
3	pp 5351.167	8.52	32.51	32.94		40.30	48.39	54.00	-5.61	Average	0.00

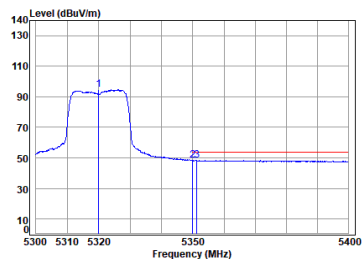
11ac_VHT(20M)_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5320 Band edge
: 5G WiFi 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5320.000	8.50	32.62	32.93		96.71	104.90	68.20	36.70	Peak	0.00
2	5350.020	8.52	32.50	32.94		52.28	60.36	74.00	-13.64	Peak	0.00
3	5353.768	8.52	32.53	32.94		53.05	61.16	74.00	-12.84	Peak	0.00

11ac_VHT(20M)_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5320 Band edge
: 5G WiFi 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5320.000	8.50	32.62	32.93		86.43	94.62	-----	-----	Average	0.00
2	5350.020	8.52	32.50	32.94		40.18	48.26	54.00	-5.74	Average	0.00
3	pp 5351.367	8.52	32.51	32.94		40.44	48.53	54.00	-5.47	Average	0.00

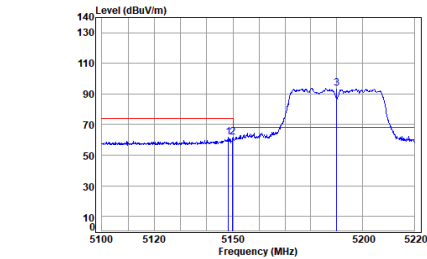
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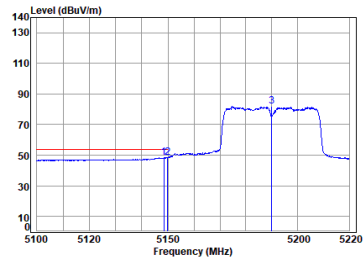
11ac_VHT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5148.264	8.42	32.91	32.86		53.02	61.49	74.00	-12.51	Peak	0.00
2	5149.980	8.42	32.90	32.86		53.06	61.52	74.00	-12.48	Peak	0.00
3 pp	5190.000	8.44	33.30	32.88		84.75	93.61	68.20	25.41	Peak	0.00

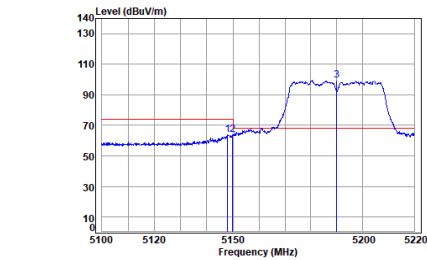
11ac_VHT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5148.384	8.42	32.91	32.86		39.94	48.41	54.00	-5.59	Average	0.00
2 pp	5149.980	8.42	32.90	32.86		40.19	48.65	54.00	-5.35	Average	0.00
3	5190.000	8.44	33.30	32.88		72.86	81.72	-----	-----	Average	0.00

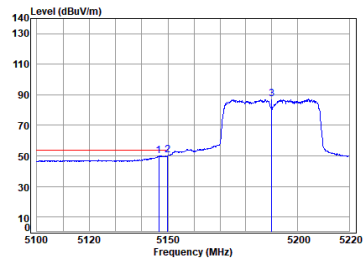
11ac_VHT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5148.024	8.42	32.91	32.86		55.24	63.71	74.00	-10.29	Peak	0.00
2	5149.980	8.42	32.90	32.86		55.34	63.80	74.00	-10.20	Peak	0.00
3 pp	5190.000	8.44	33.30	32.88		90.43	99.29	68.20	31.09	Peak	0.00

11ac_VHT(40M)_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5190 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5146.588	8.42	32.92	32.86		41.50	49.98	54.00	-4.02	Average	0.00
2 pp	5149.980	8.42	32.90	32.86		42.28	50.74	54.00	-3.26	Average	0.00
3	5190.000	8.44	33.30	32.88		78.33	87.19	-----	-----	Average	0.00



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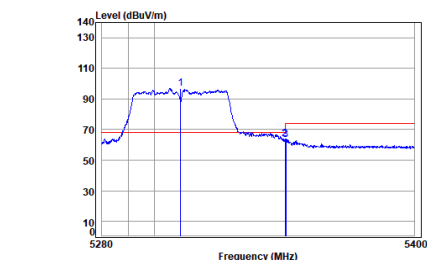
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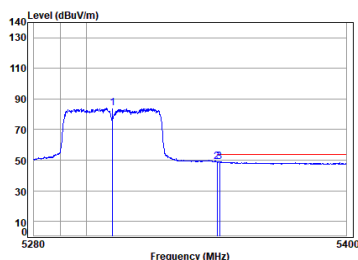
11ac_VHT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	pp 5310.000	8.50	32.66	32.93	88.73	96.96	68.20	28.76	Peak	0.00
2	5350.020	8.52	32.50	32.94	59.67	63.75	74.00	-10.25	Peak	0.00
3	5350.474	8.52	32.50	32.94	55.33	63.41	74.00	-10.59	Peak	0.00

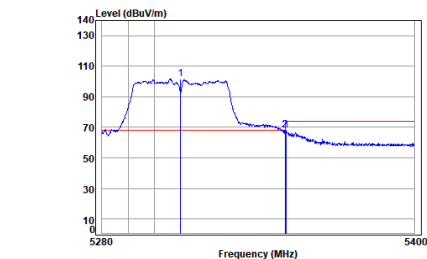
11ac_VHT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5310.000	8.50	32.66	32.93	75.78	84.01	-----	-----	Average	0.00
2	5350.020	8.52	32.50	32.94	40.94	49.02	54.00	-4.98	Average	0.00
3	pp 5351.075	8.52	32.51	32.94	41.07	49.16	54.00	-4.84	Average	0.00

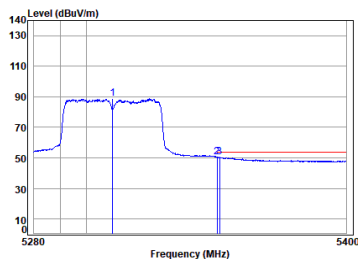
11ac_VHT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	pp 5310.000	8.50	32.66	32.93	93.65	101.88	68.20	33.68	Peak	0.00
2	5350.020	8.52	32.50	32.94	59.99	68.07	74.00	-5.93	Peak	0.00
3	5350.474	8.52	32.50	32.94	59.82	67.90	74.00	-6.10	Peak	0.00

11ac_VHT(40M)_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5310 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5310.000	8.50	32.66	32.93	80.50	88.73	-----	-----	Average	0.00
2	pp 5350.020	8.52	32.50	32.94	42.65	50.73	54.00	-3.27	Average	0.00
3	5351.075	8.52	32.51	32.94	42.60	50.69	54.00	-3.31	Average	0.00



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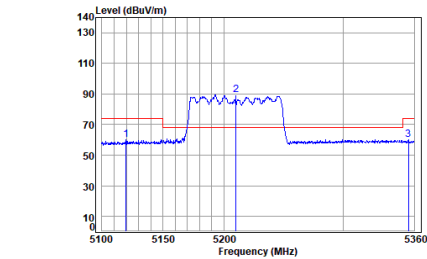
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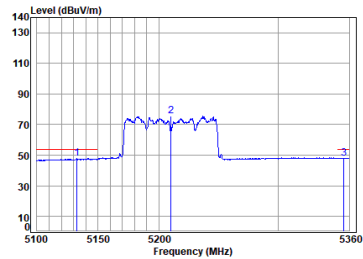
11ac_VHT(80M)_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5210 Band edge
: 5G WiFi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5119.818	8.40	33.08	32.85	51.26	59.89	74.00	-14.11	Peak	0.00	
2	5210.000	8.45	33.26	32.89	80.73	89.55	68.20	21.35	Peak	0.00	
3	5355.205	8.52	32.54	32.94	52.04	60.16	74.00	-13.84	Peak	0.00	

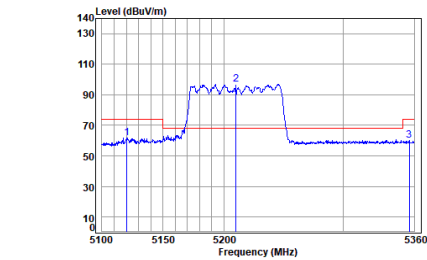
11ac_VHT(80M)_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5210 Band edge
: 5G WiFi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5132.563	8.41	33.00	32.85	39.33	47.89	54.00	-6.11	Average	0.00	
2	5210.000	8.45	33.26	32.89	66.61	75.43	-----	-----	Average	0.00	
3	5355.471	8.52	32.54	32.94	40.05	48.17	54.00	-5.83	Average	0.00	

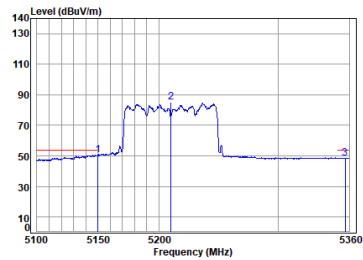
11ac_VHT(80M)_TX_CH_42_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5210 Band edge
: 5G WiFi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5120.328	8.40	33.08	32.85	53.36	61.99	74.00	-12.01	Peak	0.00	
2	5210.000	8.45	33.26	32.89	87.86	96.68	68.20	28.48	Peak	0.00	
3	5355.737	8.52	32.55	32.94	51.90	60.03	74.00	-13.97	Peak	0.00	

11ac_VHT(80M)_TX_CH_42_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5210 Band edge
: 5G WiFi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5149.947	8.42	32.90	32.86	42.24	50.70	54.00	-3.30	Average	0.00	
2	5210.000	8.45	33.26	32.89	76.55	85.37	-----	-----	Average	0.00	
3	5356.537	8.52	32.55	32.94	40.49	48.62	54.00	-5.38	Average	0.00	



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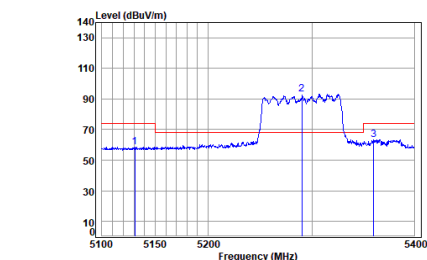
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11ac_VHT(80M)_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL

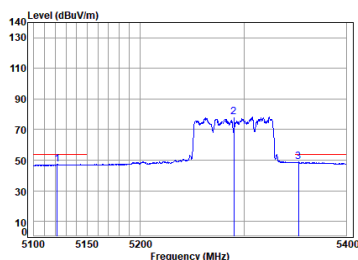
Job No : 00405AT

Mode : 5290 Band edge

: 5G WiFi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5130.700	8.41	33.02	32.85	50.21	58.79	74.00	-15.21	Peak	0.00	
2	5290.000	8.49	32.70	32.92	85.00	93.27	68.20	25.07	Peak	0.00	
3	5360.023	8.52	32.58	32.95	55.36	63.51	74.00	-10.49	Peak	0.00	

11ac_VHT(80M)_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL

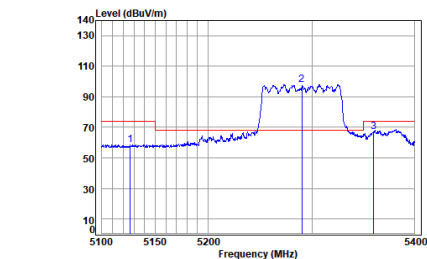
Job No : 00405AT

Mode : 5290 Band edge

: 5G WiFi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5121.910	8.40	33.07	32.85	38.55	47.17	54.00	-6.83	Average	0.00	
2	5290.000	8.49	32.70	32.92	69.89	78.16	-----	-----	Average	0.00	
3	5352.981	8.52	32.52	32.94	40.71	48.81	54.00	-5.19	Average	0.00	

11ac_VHT(80M)_TX_CH_58_Vertical-Peak



Condition: 3m VERTICAL

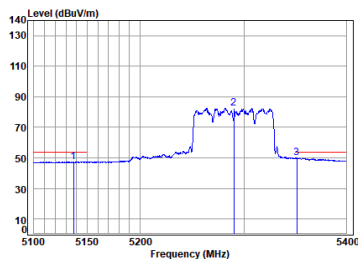
Job No : 00405AT

Mode : 5290 Band edge

: 5G WiFi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5126.596	8.41	33.04	32.85	50.09	58.69	74.00	-15.31	Peak	0.00	
2	5290.000	8.49	32.70	32.92	89.94	98.21	68.20	30.01	Peak	0.00	
3	5360.023	8.52	32.58	32.95	58.89	67.04	74.00	-6.96	Peak	0.00	

11ac_VHT(80M)_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL

Job No : 00405AT

Mode : 5290 Band edge

: 5G WiFi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5137.156	8.41	32.98	32.86	39.01	47.54	54.00	-6.46	Average	0.00	
2	5290.000	8.49	32.70	32.92	74.27	82.54	-----	-----	Average	0.00	
3	5351.452	8.52	32.51	32.94	41.94	50.03	54.00	-3.97	Average	0.00	

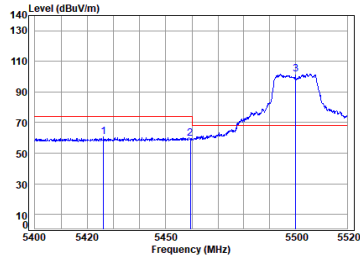
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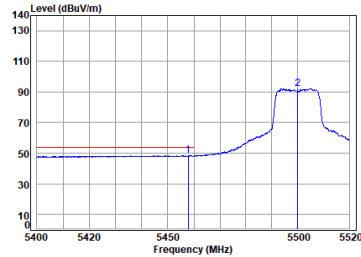
11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5426.174	8.55	32.95	32.97	52.02	60.55	74.00	-13.45	Peak	0.00	
2	5459.438	8.57	32.92	32.98	51.12	59.63	74.00	-14.37	Peak	0.00	
3 pp	5500.000	8.59	32.60	33.00	93.73	101.92	68.20	33.72	Peak	0.00	

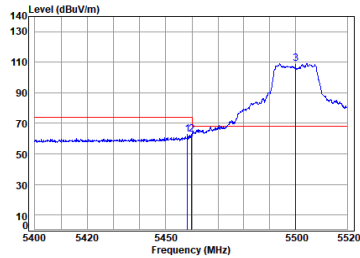
11a_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5457.871	8.57	32.94	32.98	40.10	48.63	54.00	-5.37	Average	0.00	
2	5500.000	8.59	32.60	33.00	94.12	92.31	-----	-----	Average	0.00	

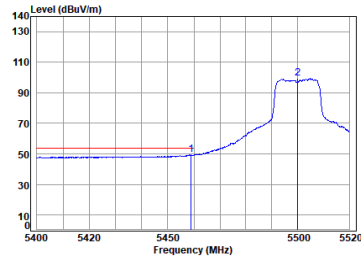
11a_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5458.238	8.57	32.93	32.98	54.22	62.74	74.00	-11.26	Peak	0.00	
2	5459.918	8.57	32.92	32.98	54.20	62.71	74.00	-11.29	Peak	0.00	
3 pp	5500.000	8.59	32.60	33.00	100.87	109.06	68.20	40.86	Peak	0.00	

11a_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5458.950	8.57	32.93	32.98	41.06	49.58	54.00	-4.42	Average	0.00	
2	5500.000	8.59	32.60	33.00	91.19	99.38	-----	-----	Average	0.00	



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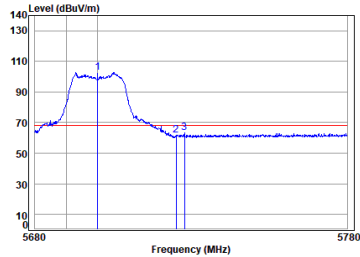
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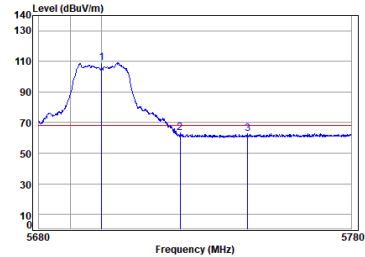
11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5700 Band edge
: 5G WiFi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5700.000	8.44	33.10	32.79	93.90	102.65	68.20	34.45	Peak	0.00	
2	5725.000	8.42	33.25	32.77	52.63	61.53	68.20	-6.67	Peak	0.00	
3	5727.682	8.42	33.27	32.77	54.39	63.31	68.20	-4.89	Peak	0.00	

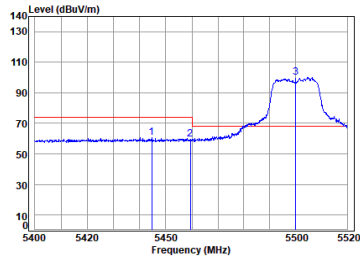
11a_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5700 Band edge
: 5G WiFi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5700.000	8.44	33.10	32.79	100.20	108.95	68.20	40.75	Peak	0.00	
2	5725.000	8.42	33.25	32.77	54.34	63.24	68.20	-4.96	Peak	0.00	
3	5746.606	8.41	33.38	32.75	53.81	62.85	68.20	-5.35	Peak	0.00	

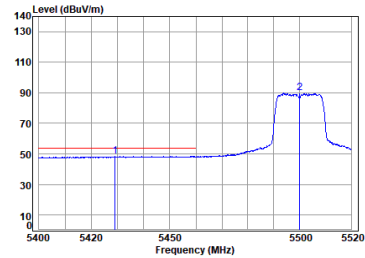
11ac_VHT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 Band edge
: 5G WiFi 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5444.572	8.56	32.99	32.98	52.07	60.64	74.00	-13.36	Peak	0.00	
2	5459.430	8.57	32.92	32.98	51.38	59.89	74.00	-14.11	Peak	0.00	
3	pp 5500.000	8.59	32.60	33.00	91.94	100.13	68.20	31.93	Peak	0.00	

11ac_VHT(20M)_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5500 Band edge
: 5G WiFi 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5429.037	8.56	32.96	32.97	39.71	48.26	54.00	-5.74	Average	0.00	
2	5500.000	8.59	32.60	33.00	81.55	89.74	68.20	21.54	Average	0.00	



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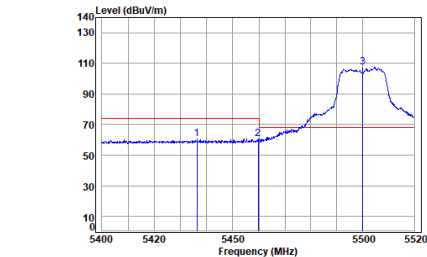
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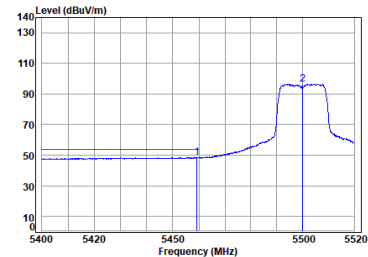
11ac_VHT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5436.321	8.56	32.97	32.98		52.15	60.70	74.00	-13.30	Peak	0.00
2	5499.791	8.57	32.92	32.98		52.19	60.70	74.00	-13.30	Peak	0.00
3	5500.000	8.59	32.60	33.00		99.22	107.41	68.20	39.21	Peak	0.00

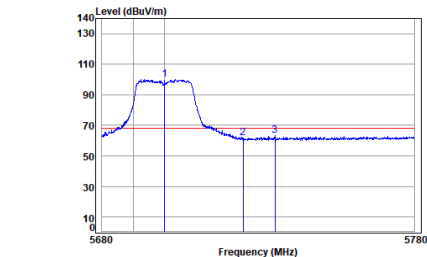
11ac_VHT(20M)_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5500 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5459.311	8.57	32.93	32.98		40.01	48.53	54.00	-5.47	Average	0.00
2	5500.000	8.59	32.60	33.00		88.40	96.59	68.20	28.39	Average	0.00

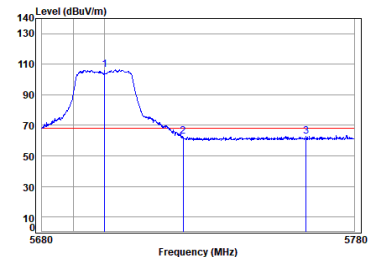
11ac_VHT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5700 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5700.000	8.44	33.10	32.79		91.13	99.88	68.20	31.68	Peak	0.00
2	5725.000	8.42	33.25	32.77		52.67	61.57	68.20	-6.63	Peak	0.00
3	5735.184	8.42	33.31	32.76		54.36	63.33	68.20	-4.87	Peak	0.00

11ac_VHT(20M)_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5700 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5700.000	8.44	33.10	32.79		97.59	106.34	68.20	38.14	Peak	0.00
2	5725.000	8.42	33.25	32.77		53.71	62.61	68.20	-5.59	Peak	0.00
3	5764.486	8.40	33.25	32.73		53.82	62.74	68.20	-5.46	Peak	0.00



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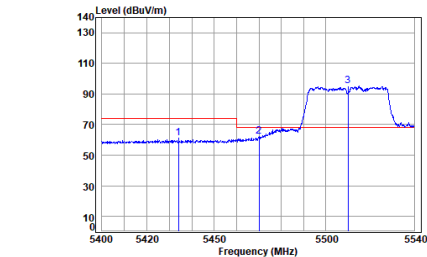
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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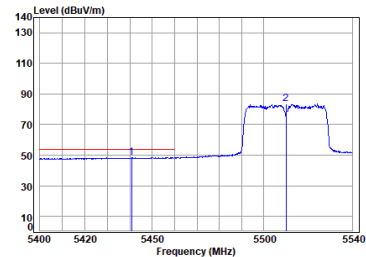
11ac_VHT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5510 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5434.108	8.56	32.97	32.97	52.70	61.26	74.00	-12.74	Peak	0.00	
2	5469.972	8.58	32.84	32.99	53.94	62.37	68.20	-5.83	Peak	0.00	
3	5510.000	8.58	32.72	32.99	86.73	95.04	68.20	26.84	Peak	0.00	

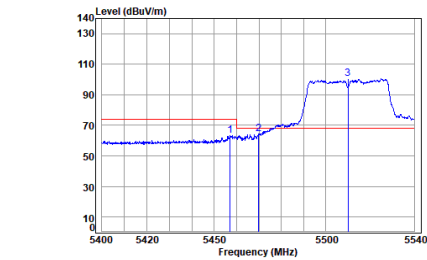
11ac_VHT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5510 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5448.789	8.56	32.98	32.98	39.92	48.48	54.00	-5.52	Average	0.00	
2	5510.000	8.58	32.72	32.99	75.03	83.34	-----	-----	Average	0.00	

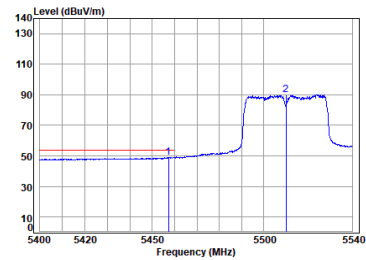
11ac_VHT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5510 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5457.106	8.57	32.94	32.98	54.89	63.42	74.00	-10.58	Peak	0.00	
2	5469.832	8.58	32.84	32.99	55.98	64.41	68.20	-3.79	Peak	0.00	
3	5510.000	8.58	32.72	32.99	92.14	100.45	68.20	32.25	Peak	0.00	

11ac_VHT(40M)_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5510 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5457.246	8.57	32.94	32.98	40.47	49.00	54.00	-5.00	Average	0.00	
2	5510.000	8.58	32.72	32.99	81.86	90.17	-----	-----	Average	0.00	



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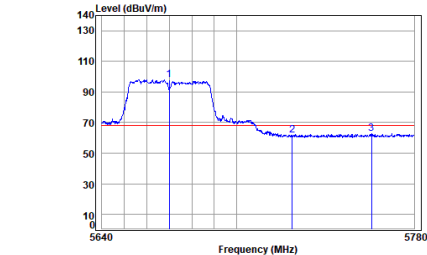
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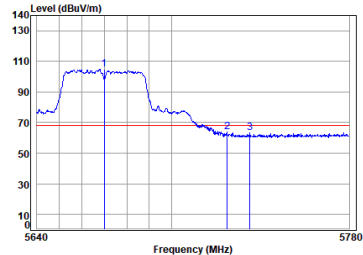
11ac_VHT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5670 Band edge
: 5G WiFi 11AC40

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 5670.000	8.46	33.16	32.83	89.37	98.16	68.20	29.96	Peak	0.00	
2 5725.000	8.42	33.25	32.77	52.59	61.49	68.20	-6.71	Peak	0.00	
3 5760.617	8.40	33.29	32.73	53.87	62.83	68.20	-5.37	Peak	0.00	

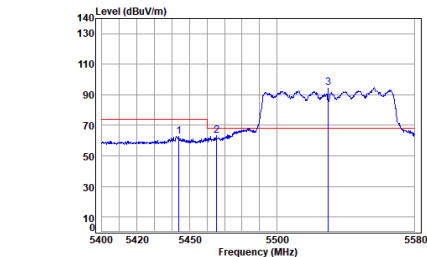
11ac_VHT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5670 Band edge
: 5G WiFi 11AC40

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 5670.000	8.46	33.16	32.83	95.88	104.67	68.20	36.47	Peak	0.00	
2 5725.000	8.42	33.25	32.77	55.11	64.01	68.20	-4.19	Peak	0.00	
3 5735.167	8.42	33.31	32.76	54.33	63.30	68.20	-4.90	Peak	0.00	

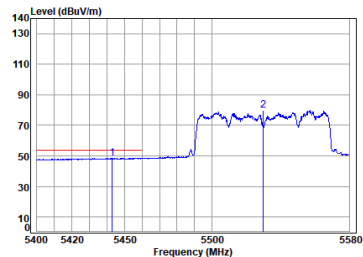
11ac_VHT(80M)_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5530 Band edge
: 5G WiFi 11AC80

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 5443.913	8.56	32.99	32.98	54.11	62.68	74.00	-11.32	Peak	0.00	
2 5465.375	8.57	32.88	32.99	54.71	63.17	68.20	-5.03	Peak	0.00	
3 pp 5530.000	8.57	32.96	32.97	86.34	94.90	68.20	26.70	Peak	0.00	

11ac_VHT(80M)_TX_CH_106_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5530 Band edge
: 5G WiFi 11AC80

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 5442.842	8.56	32.99	32.98	40.00	48.57	54.00	-5.43	Average	0.00	
2 5530.000	8.57	32.96	32.97	71.15	79.71	79.71	0.00	Average	0.00	



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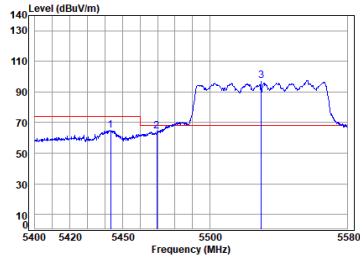
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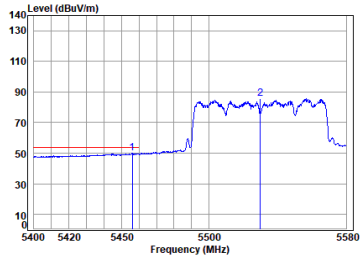
11ac_VHT(80M)_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5443.199	8.56	32.99	32.98	56.26	64.83	74.00	-9.17	Peak		0.00
2	5469.678	8.58	32.84	32.99	55.98	64.41	68.20	-3.79	Peak		0.00
3	5530.000	8.57	32.96	32.97	89.07	97.63	68.20	29.43	Peak		0.00

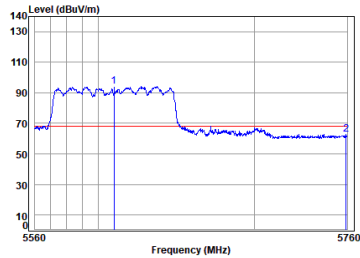
11ac_VHT(80M)_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5456.064	8.57	32.95	32.98	41.41	49.95	54.00	-4.05	Average		0.00
2	5530.000	8.57	32.96	32.97	76.93	85.49	68.20	17.29	Average		0.00

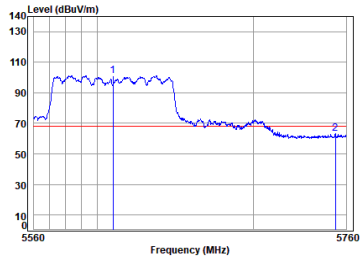
11ac_VHT(80M)_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5610 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5610.000	8.51	33.36	32.89	85.43	94.41	68.20	26.21	Peak		0.00
2	5759.389	8.40	33.31	32.74	53.78	62.75	68.20	-5.45	Peak		0.00

11ac_VHT(80M)_TX_CH_122_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5610 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5610.000	8.51	33.36	32.89	92.33	101.31	68.20	33.11	Peak		0.00
2	5752.880	8.40	33.37	32.74	54.34	63.37	68.20	-4.83	Peak		0.00



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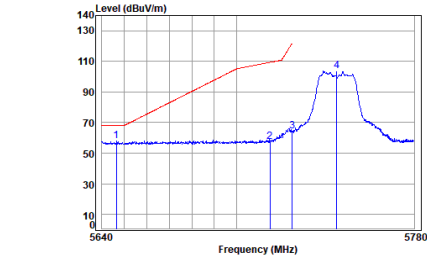
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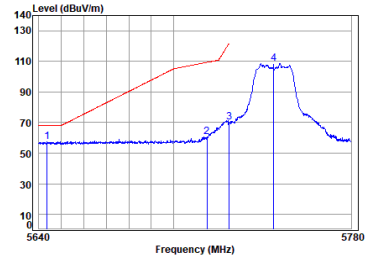
11a_TX_CH_149_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5745 Band edge
: 5G NR1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	5646.503	8.48	33.21	32.85	49.01	57.85	68.20	-10.35	Peak	0.00
2	5715.000	8.43	33.19	32.78	48.53	57.37	109.40	-52.03	Peak	0.00
3	5725.000	8.42	33.25	32.77	55.65	64.55	122.20	-57.65	Peak	0.00
4	5745.000	8.41	33.37	32.75	94.65	103.68	-----	-----	Peak	0.00

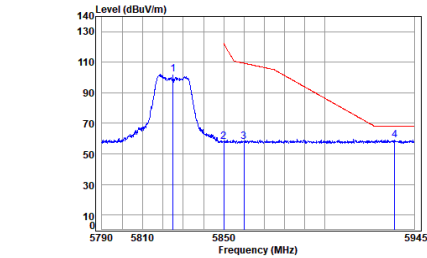
11a_TX_CH_149_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5745 Band edge
: 5G NR1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	5643.735	8.48	33.22	32.85	48.61	57.46	68.20	-10.74	Peak	0.00
2	5715.000	8.43	33.19	32.78	51.90	60.74	109.40	-48.66	Peak	0.00
3	5725.000	8.42	33.25	32.77	61.31	70.21	122.20	-51.99	Peak	0.00
4	5745.000	8.41	33.37	32.75	99.47	108.50	-----	-----	Peak	0.00

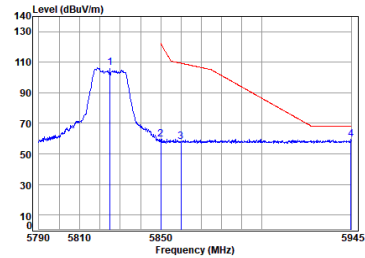
11a_TX_CH_165_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5825 Band edge
: 5G NR1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	5825.000	8.35	33.00	32.67	93.67	102.35	-----	-----	Peak	0.00
2	5850.000	8.33	33.10	32.65	49.31	58.09	122.20	-64.11	Peak	0.00
3	5860.000	8.33	33.10	32.64	49.48	58.27	109.40	-51.13	Peak	0.00
4	5935.271	8.27	33.67	32.56	49.87	59.25	68.20	-8.95	Peak	0.00

11a_TX_CH_165_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5825 Band edge
: 5G NR1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	5825.000	8.35	33.00	32.67	97.70	106.38	-----	-----	Peak	0.00
2	5850.000	8.33	33.10	32.65	50.74	59.52	122.20	-62.68	Peak	0.00
3	5860.000	8.33	33.10	32.64	49.49	58.28	109.40	-51.12	Peak	0.00
4	5944.843	8.27	33.82	32.55	49.84	59.38	68.20	-8.82	Peak	0.00



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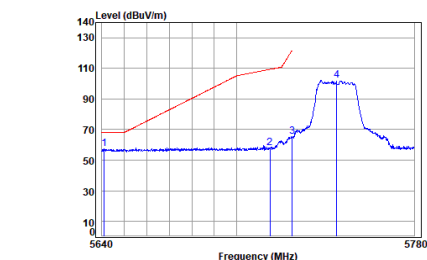
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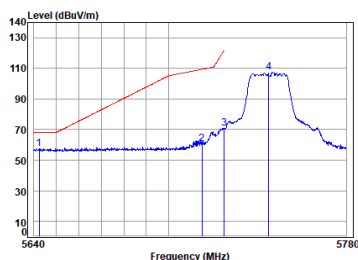
11ac_VHT(20M)_TX_CH_149_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5641.106	8.49	33.24	32.85	48.41	57.29	68.20	-10.91	Peak	0.00
2	5715.000	8.43	33.19	32.78	49.18	58.02	109.40	-51.38	Peak	0.00
3	5725.000	8.42	33.25	32.77	56.43	65.33	122.20	-56.87	Peak	0.00
4	5745.000	8.41	33.37	32.75	92.99	102.02	-----	-----	Peak	0.00

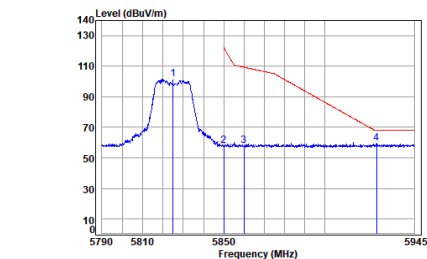
11ac_VHT(20M)_TX_CH_149_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5745 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5642.352	8.48	33.23	32.85	48.72	57.58	68.20	-10.62	Peak	0.00
2	5715.000	8.43	33.19	32.78	51.72	60.56	109.40	-48.84	Peak	0.00
3	5725.000	8.42	33.25	32.77	61.92	70.82	122.20	-51.38	Peak	0.00
4	5745.000	8.41	33.37	32.75	98.45	107.48	-----	-----	Peak	0.00

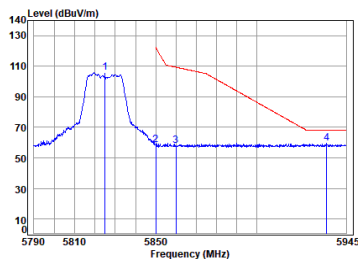
11ac_VHT(20M)_TX_CH_165_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5825.000	8.35	33.00	32.67	92.90	101.58	-----	-----	Peak	0.00
2	5850.000	8.33	33.10	32.65	49.03	57.81	122.20	-64.39	Peak	0.00
3	5860.000	8.33	33.10	32.64	49.04	57.83	109.40	-51.57	Peak	0.00
4	5926.026	8.28	33.52	32.57	50.56	59.79	68.20	-8.41	Peak	0.00

11ac_VHT(20M)_TX_CH_165_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5825 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5825.000	8.35	33.00	32.67	97.17	105.85	-----	-----	Peak	0.00
2	5850.000	8.33	33.10	32.65	49.97	58.75	122.20	-63.45	Peak	0.00
3	5860.000	8.33	33.10	32.64	49.23	58.02	109.40	-51.38	Peak	0.00
4	5935.271	8.27	33.67	32.56	50.07	59.45	68.20	-8.75	Peak	0.00



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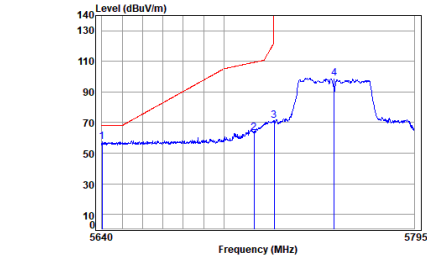
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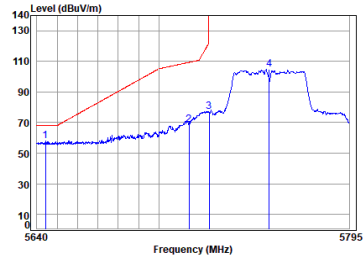
11ac_VHT(40M)_TX_CH_151_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5755 Band edge
: 5G WiFi 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5640.153	8.49	33.24	32.86	48.67	57.54	68.20	-10.66	Peak	0.00
2	5715.000	8.43	33.19	32.78	54.40	63.24	109.40	-46.16	Peak	0.00
3	5725.000	8.42	33.25	32.77	62.68	71.58	122.20	-50.62	Peak	0.00
4	5755.000	8.40	33.35	32.74	89.88	98.09	-----	-----	Peak	0.00

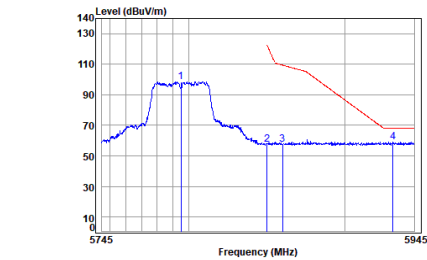
11ac_VHT(40M)_TX_CH_151_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5755 Band edge
: 5G WiFi 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5644.283	8.48	33.22	32.85	49.34	58.19	68.20	-10.01	Peak	0.00
2	5715.000	8.43	33.19	32.78	59.70	68.54	109.40	-40.86	Peak	0.00
3	5725.000	8.42	33.25	32.77	68.12	77.02	122.20	-45.18	Peak	0.00
4	5755.000	8.40	33.35	32.74	95.64	104.65	-----	-----	Peak	0.00

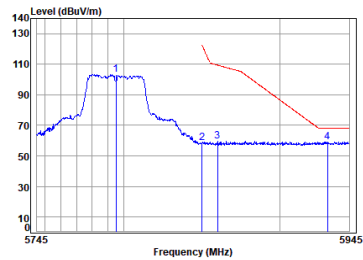
11ac_VHT(40M)_TX_CH_159_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00405AT
Mode : 5795 Band edge
: 5G WiFi 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5795.000	8.37	32.95	32.70	90.04	98.66	-----	-----	Peak	0.00
2	5850.000	8.33	33.10	32.65	48.96	57.74	122.20	-64.46	Peak	0.00
3	5860.000	8.33	33.10	32.64	48.97	57.76	109.40	-51.64	Peak	0.00
4	5931.182	8.28	33.60	32.57	49.64	58.95	68.20	-9.25	Peak	0.00

11ac_VHT(40M)_TX_CH_159_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00405AT
Mode : 5795 Band edge
: 5G WiFi 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5795.000	8.37	32.95	32.70	94.83	103.45	-----	-----	Peak	0.00
2	5850.000	8.33	33.10	32.65	49.81	58.59	122.20	-63.61	Peak	0.00
3	5860.000	8.33	33.10	32.64	50.62	59.41	109.40	-49.99	Peak	0.00
4	5938.776	8.28	33.59	32.57	49.93	59.23	68.20	-8.97	Peak	0.00



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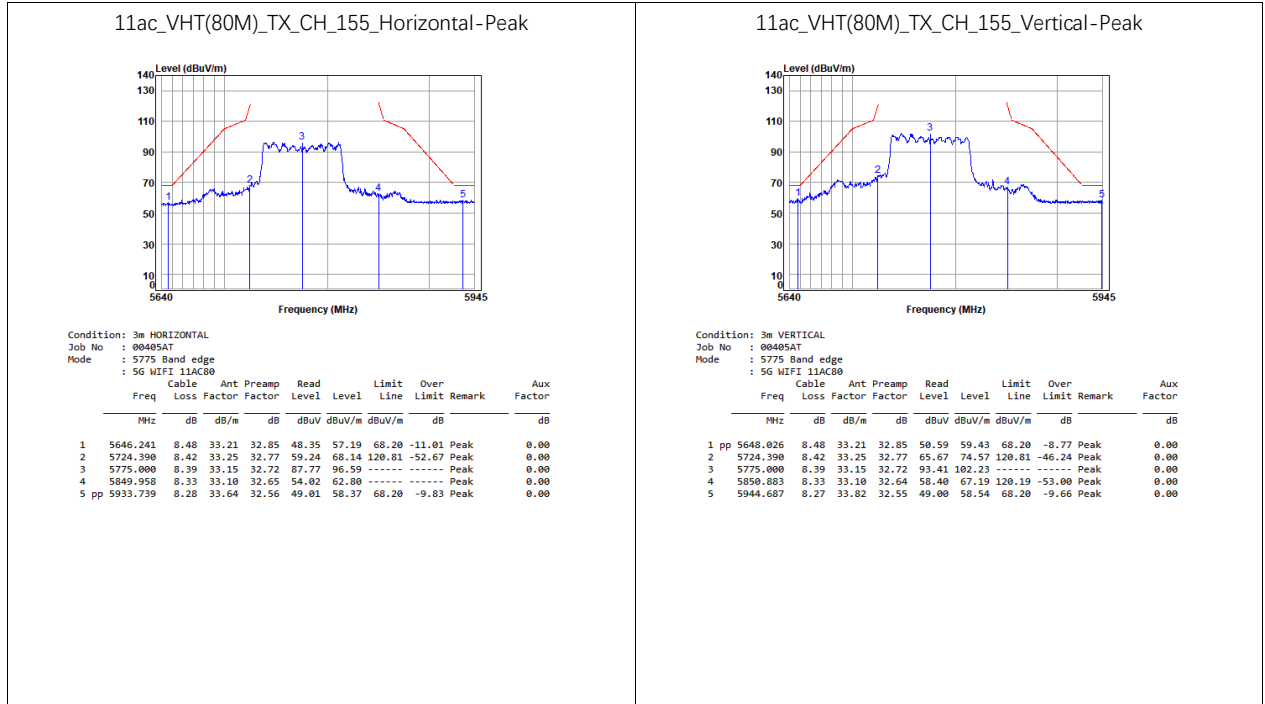
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7.5 Duty Cycle

Test Requirement ANSI C63.10-2020+Cor.1-2023 Section 12.2
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.2
 Test Engineer: Ian Li

7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.0 °C Humidity: 42.8 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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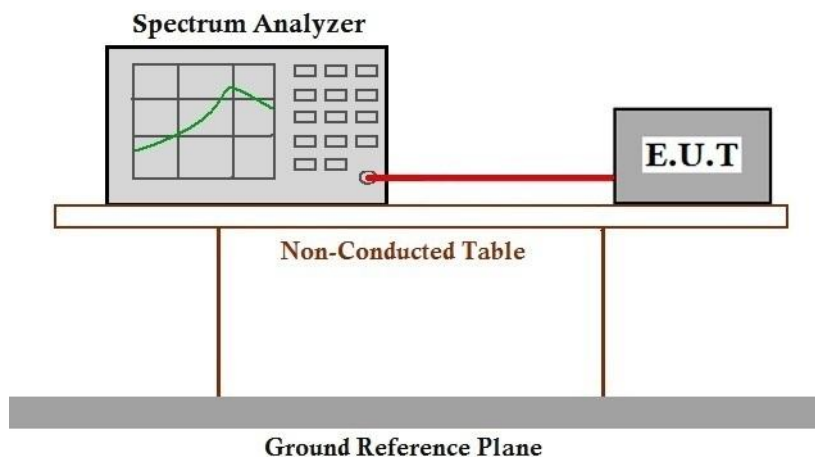
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 99% Bandwidth

Test Requirement ANSI C63.10-2020+Cor.1-2023 Section 12.5.3
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.9.3
Test Engineer: Ian Li

7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 26.0 °C Humidity: 42.8 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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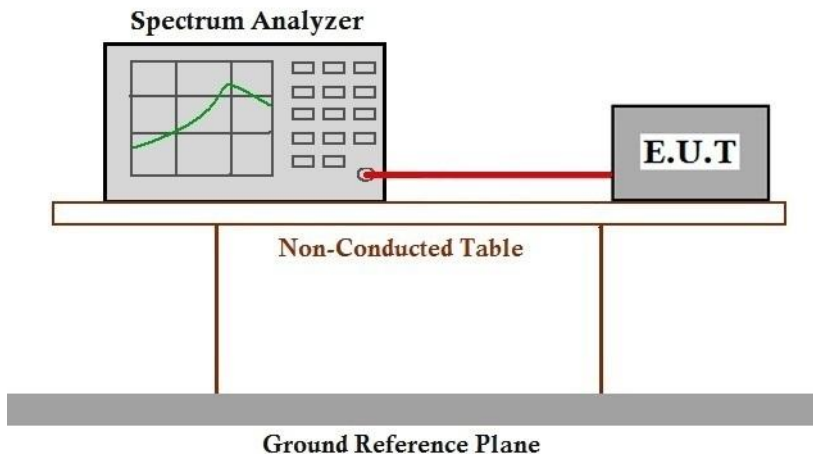
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 26dB Emission Bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.5.2
 Test Engineer: Ian Li

7.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.0 °C Humidity: 42.8 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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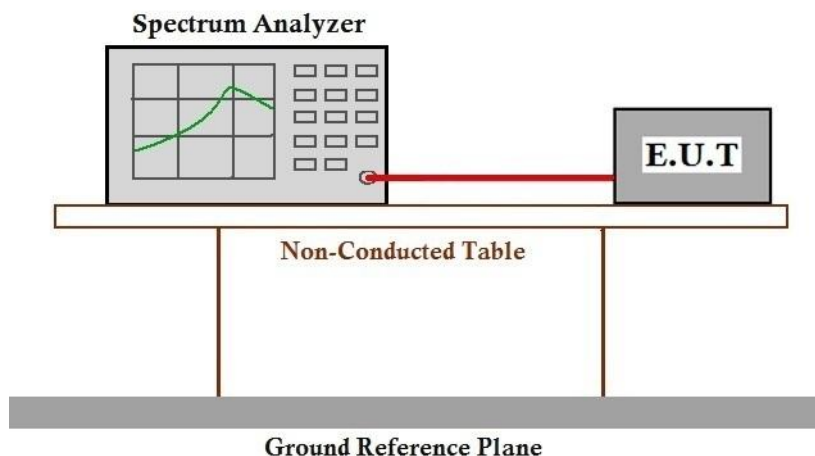
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.5.1
 Test Engineer: Ian Li

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C Humidity: 42.8 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

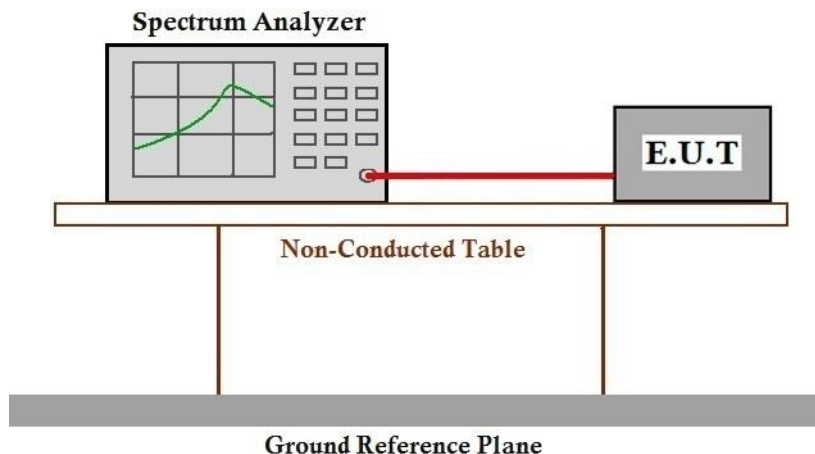


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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.4
 Test Engineer: Ian Li

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C Humidity: 42.8 % RH Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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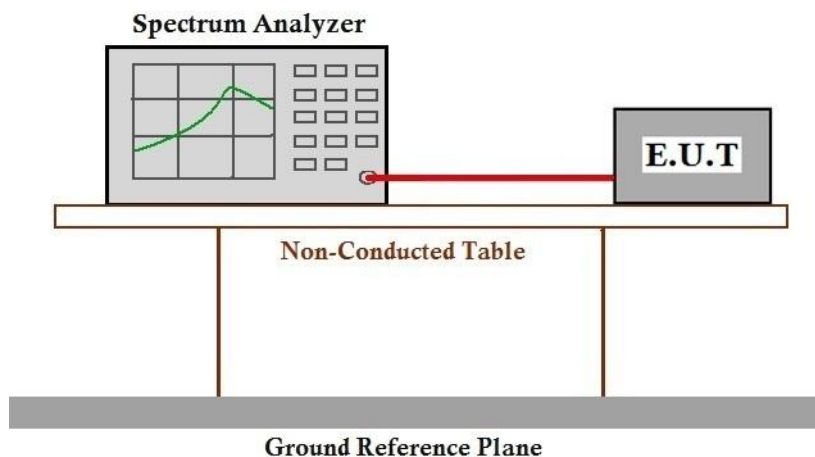
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Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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

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

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7.10 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 12.6
 Test Engineer: Ian Li

Limit:

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C Humidity: 42.8 % RH Atmospheric Pressure: 1000 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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



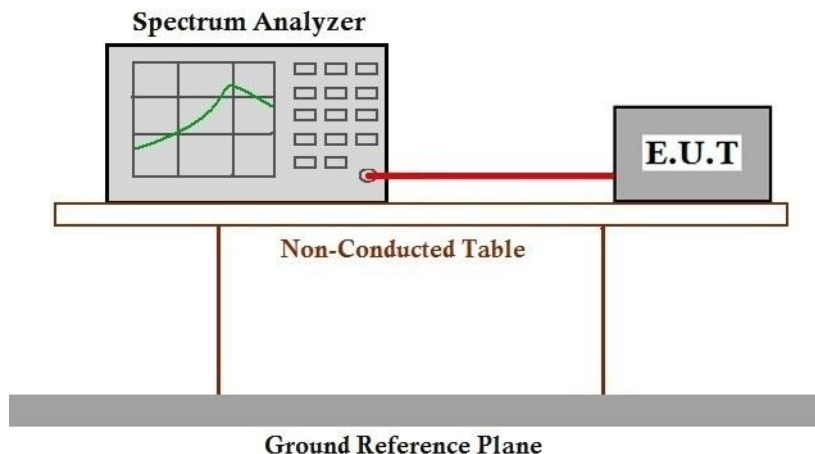
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		is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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

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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.8
 Test Engineer: Ian Li

7.11.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.0 °C Humidity: 42.8 % RH Atmospheric Pressure: 1000 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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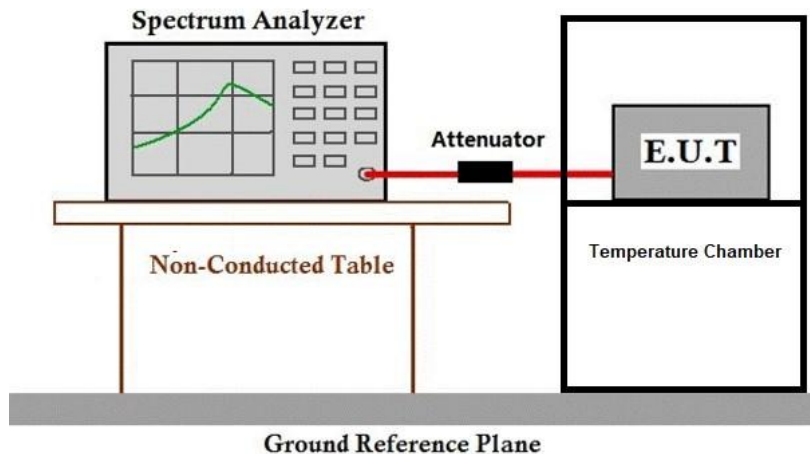
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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

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7.12 Non-occupancy Period

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3
Test Engineer: Ian Li

Limit:

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

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

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

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



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7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C

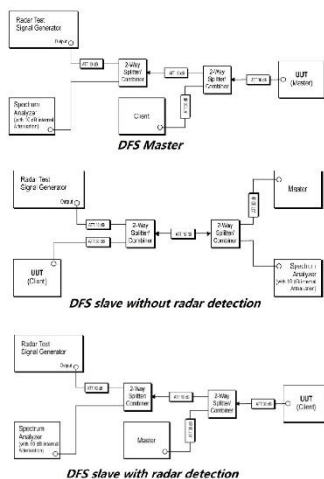
Humidity: 42.8 % RH

Atmospheric Pressure: 1000 mbar

7.12.2 Test Mode Description

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

7.12.3 Test Setup Diagram



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7.12.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.13 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
 Test Method: KDB 905462 D02 Section 7.8.3
 Test Engineer: Ian Li

Limit:

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

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

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

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



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7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C

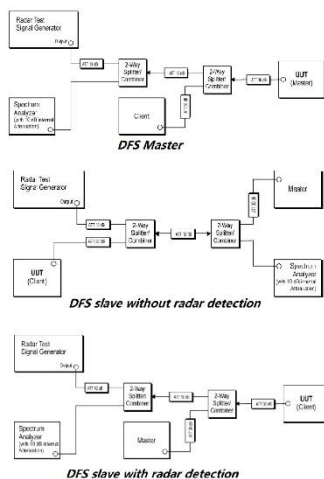
Humidity: 42.8 % RH

Atmospheric Pressure: 1000 mbar

7.13.2 Test Mode Description

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

7.13.3 Test Setup Diagram



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7.13.4 Measurement Procedure and Data

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

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7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3
Test Engineer: Ian Li

Limit:

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

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

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

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



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7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C

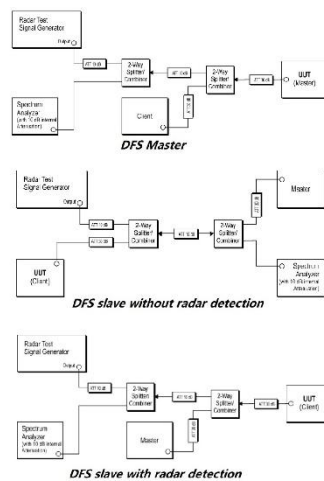
Humidity: 42.8 % RH

Atmospheric Pressure: 1000 mbar

7.14.2 Test Mode Description

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

7.14.3 Test Setup Diagram



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7.14.4 Measurement Procedure and Data

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

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8 Test Setup Photo

Refer to Setup Photo for FYCR2608000405AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2608000405AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.066	2.228	92.73	0.33	3.91
		5200	2.066	2.238	92.31	0.35	5.93
		5240	2.072	2.229	92.96	0.32	5.17
		5260	2.071	2.202	94.05	0.27	4.47
		5300	2.065	2.237	92.31	0.35	5.52
		5320	2.065	2.236	92.35	0.35	5.11
		5500	2.071	2.219	93.33	0.30	5.21
		5580	2.071	2.238	92.54	0.34	5.53
		5700	2.066	2.192	94.25	0.26	2.79
		5745	2.071	2.237	92.58	0.33	5.95
		5785	2.065	2.236	92.35	0.35	5.11
		5825	2.066	2.192	94.25	0.26	3.20
		5720	2.071	2.237	92.58	0.33	5.57
802.11n (HT20)	SISO	5180	1.927	2.084	92.47	0.34	5.92
		5200	1.928	2.093	92.12	0.36	6.31
		5240	1.927	2.093	92.07	0.36	6.31
		5260	1.926	2.084	92.42	0.34	5.96
		5300	1.921	2.084	92.18	0.35	5.93
		5320	1.927	2.084	92.47	0.34	5.92
		5500	1.926	2.093	92.02	0.36	6.36
		5580	1.927	2.093	92.07	0.36	5.87
		5700	1.922	2.093	91.83	0.37	5.86
		5745	1.922	2.084	92.23	0.35	5.03
		5785	1.927	2.084	92.47	0.34	6.00
		5825	1.921	2.093	91.78	0.37	5.02
		5720	1.927	2.084	92.47	0.34	5.92
802.11n	SISO	5190	0.951	1.081	87.97	0.56	8.90



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(HT40)		5230	0.951	1.117	85.14	0.70	11.70
		5270	0.945	1.090	86.70	0.62	9.56
		5310	0.946	1.072	88.25	0.54	6.37
		5510	0.951	1.099	86.53	0.63	10.34
		5550	0.945	1.117	84.60	0.73	10.78
		5670	0.946	1.072	88.25	0.54	8.07
		5755	0.946	1.099	86.08	0.65	9.36
		5795	0.946	1.108	85.38	0.69	10.93
		5710	0.946	1.099	86.08	0.65	8.52
802.11ac (VHT20)	SISO	5180	1.934	2.042	94.71	0.24	3.45
		5200	1.934	2.079	93.03	0.31	4.22
		5240	1.934	2.105	91.88	0.37	5.86
		5260	1.933	2.096	92.22	0.35	5.91
		5300	1.933	2.105	91.83	0.37	5.86
		5320	1.934	2.096	92.27	0.35	5.44
		5500	1.938	2.104	92.11	0.36	6.31
		5580	1.933	2.077	93.07	0.31	4.66
		5700	1.934	2.097	92.23	0.35	5.51
		5745	1.939	2.106	92.07	0.36	6.35
		5785	1.939	2.060	94.13	0.26	4.28
		5825	1.934	2.087	92.67	0.33	5.48
		5720	1.938	2.105	92.07	0.36	6.35
802.11ac (VHT40)	SISO	5190	0.954	1.089	87.60	0.57	7.88
		5230	0.953	1.107	86.09	0.65	9.33
		5270	0.954	1.125	84.80	0.72	10.71
		5310	0.953	1.125	84.71	0.72	11.55
		5510	0.954	1.098	86.89	0.61	9.46
		5550	0.958	1.098	87.25	0.59	9.58
		5670	0.954	1.098	86.89	0.61	9.50
		5755	0.959	1.125	85.24	0.69	11.62
		5795	0.954	1.125	84.80	0.72	11.60
		5710	0.960	1.126	85.26	0.69	11.58
802.11ac (VHT80)	SISO	5210	0.462	0.624	74.04	1.31	17.08
		5290	0.462	0.606	76.24	1.18	16.53
		5530	0.462	0.633	72.99	1.37	19.78
		5610	0.461	0.615	74.96	1.25	16.03
		5775	0.462	0.624	74.04	1.31	12.49
		5690	0.462	0.633	72.99	1.37	18.10



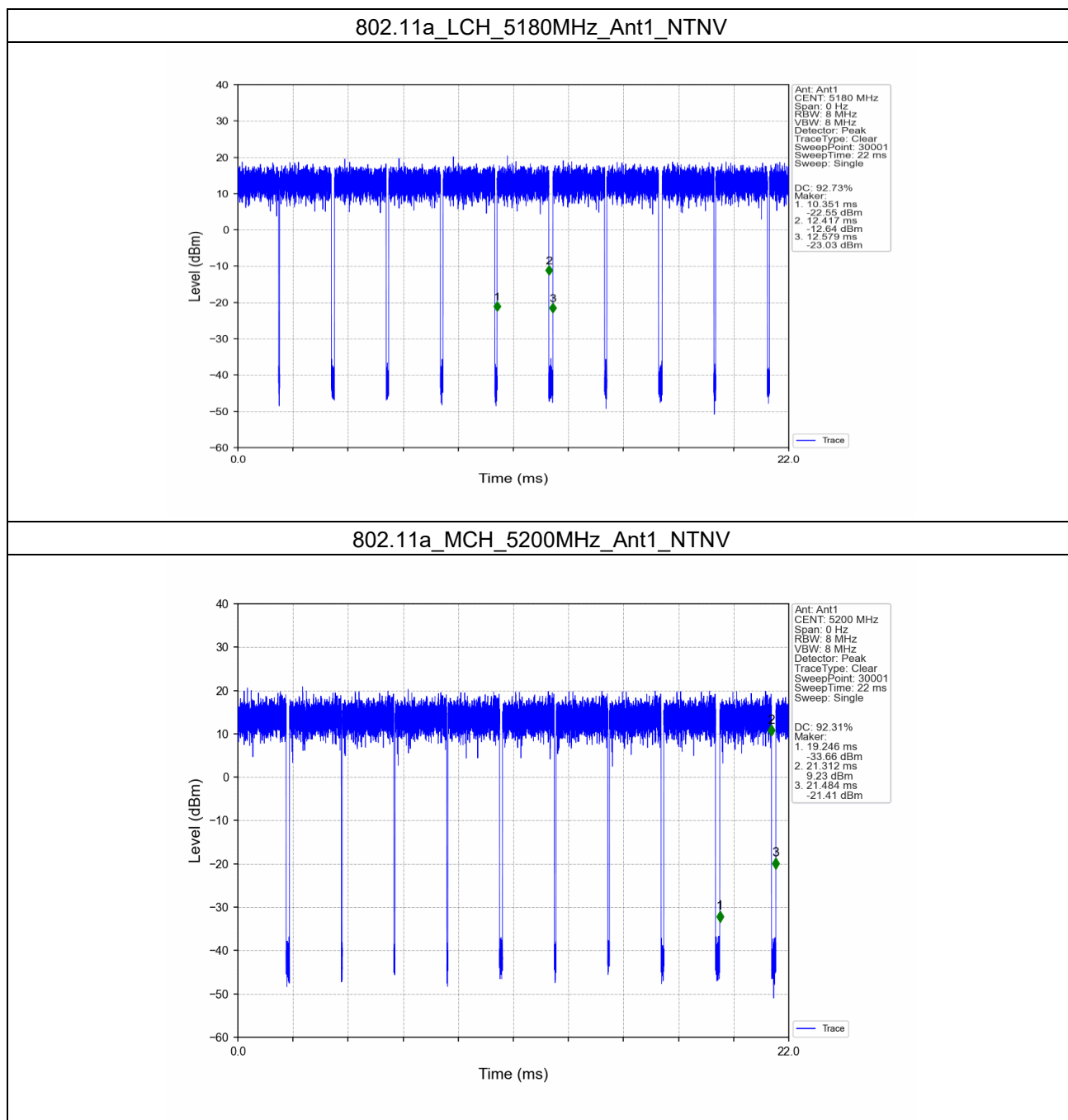
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1.2 Test Graph

1.2.1 Ant1



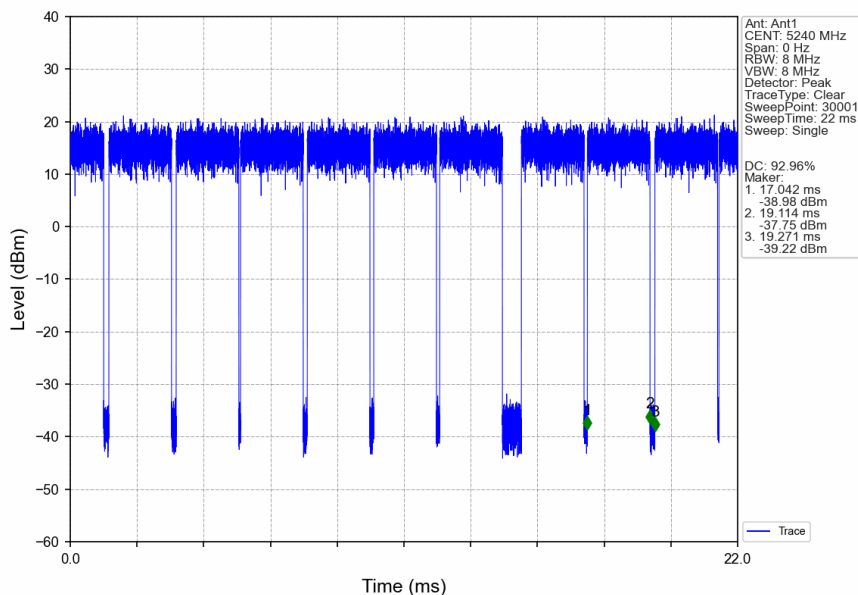
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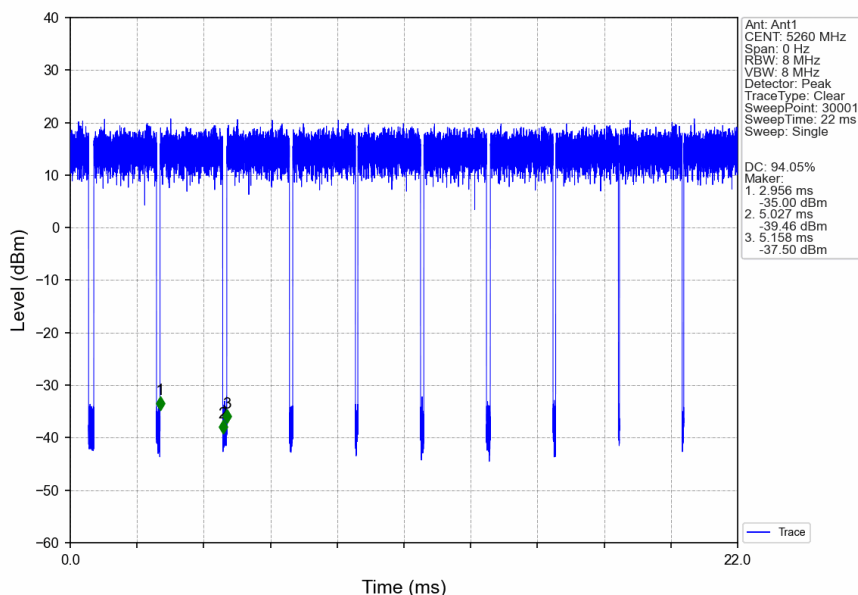
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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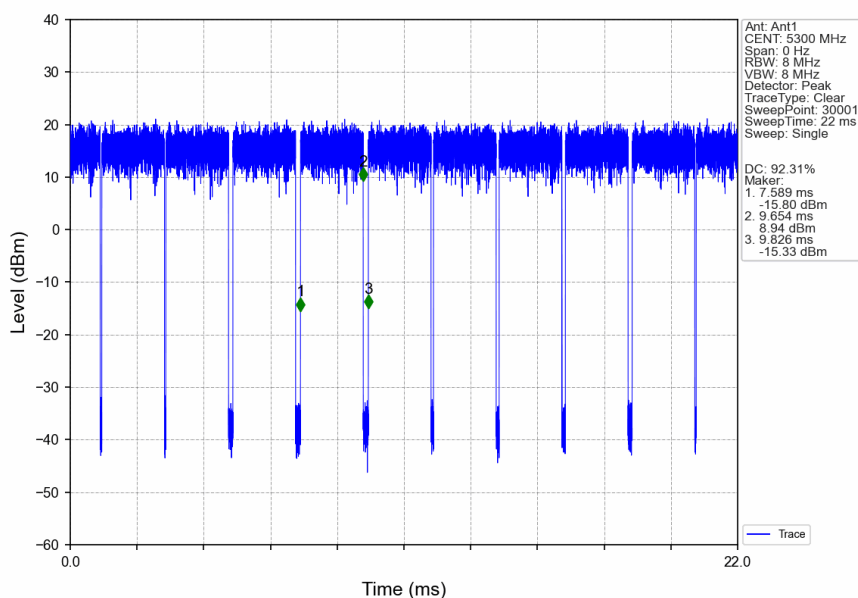
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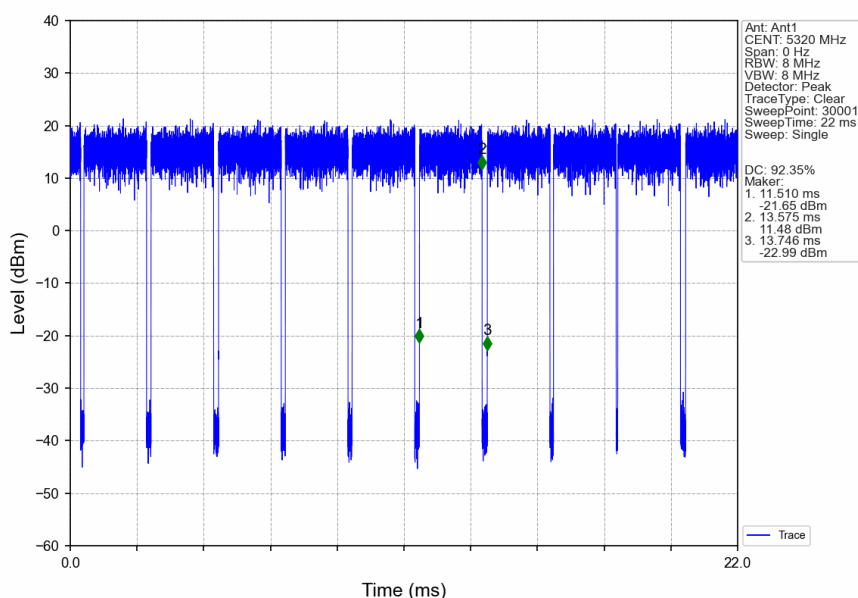
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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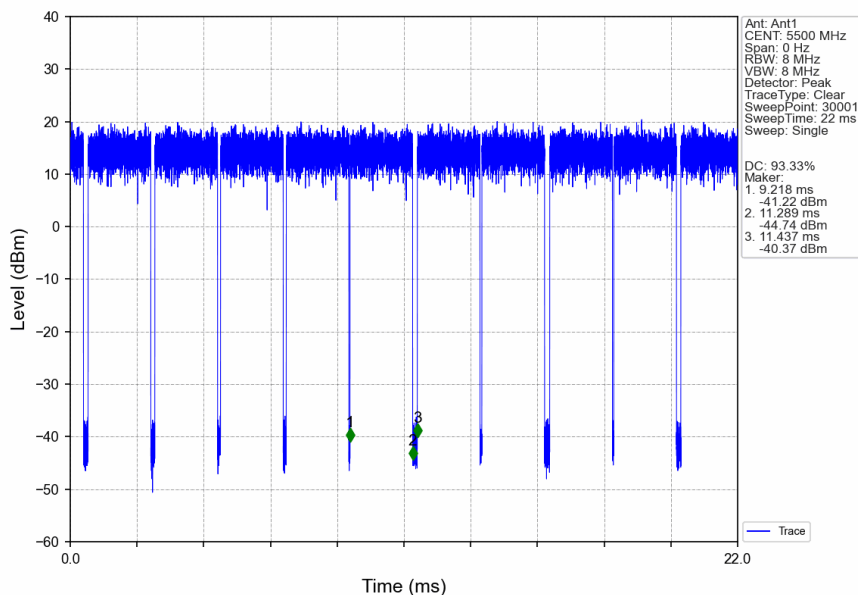
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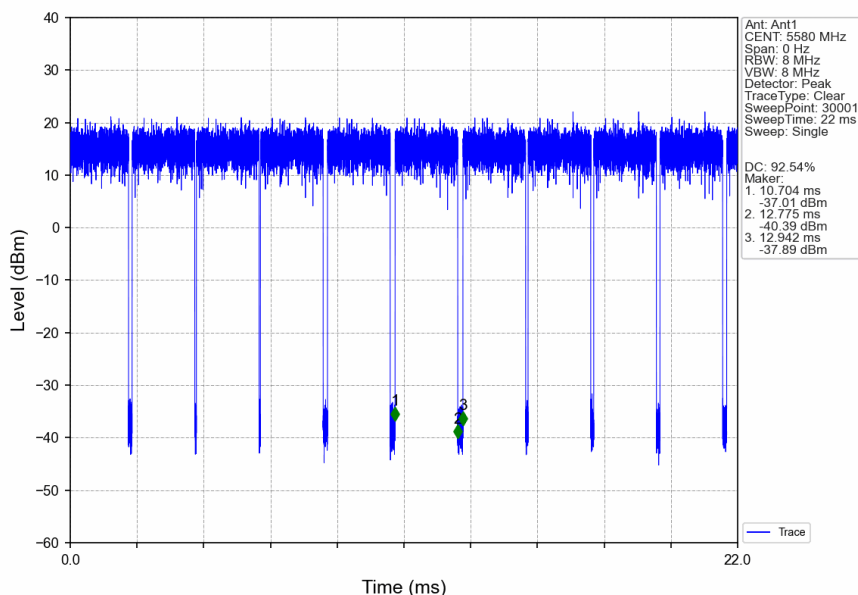
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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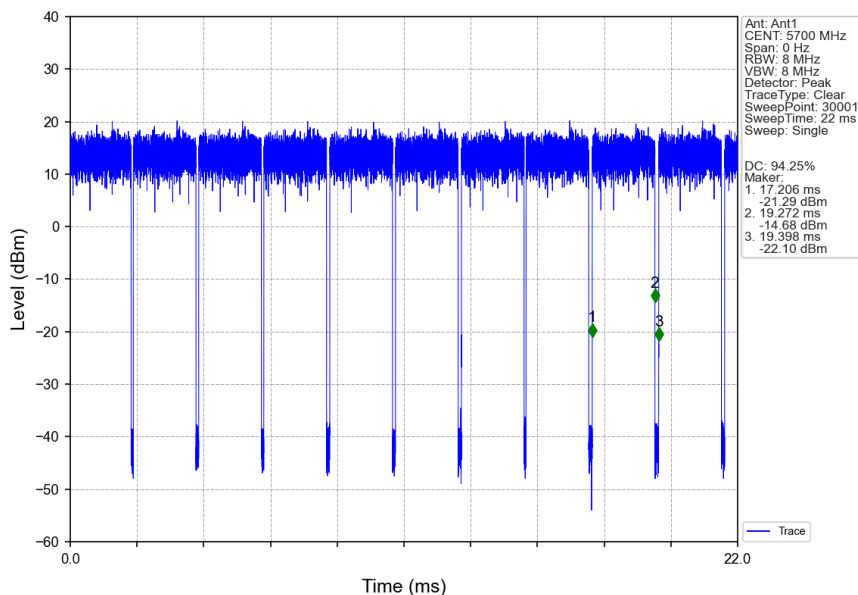
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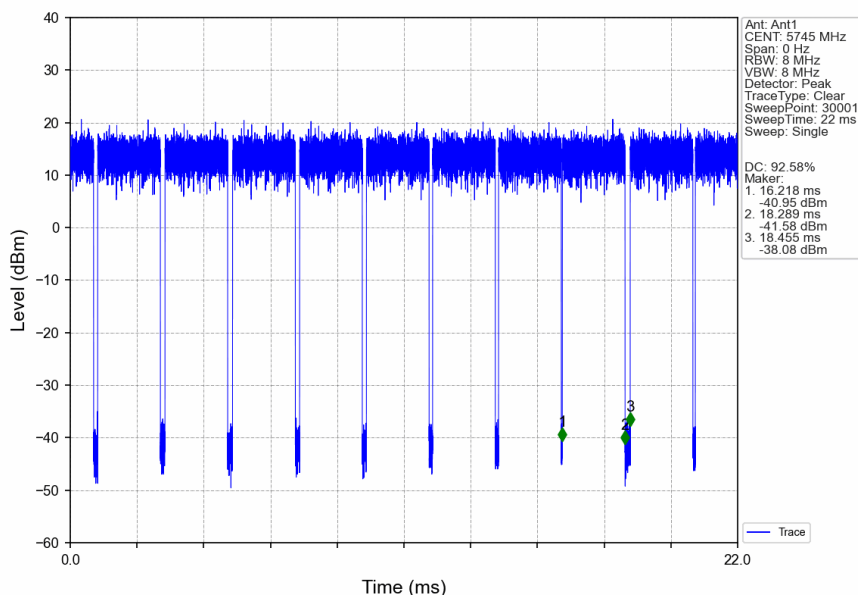
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV

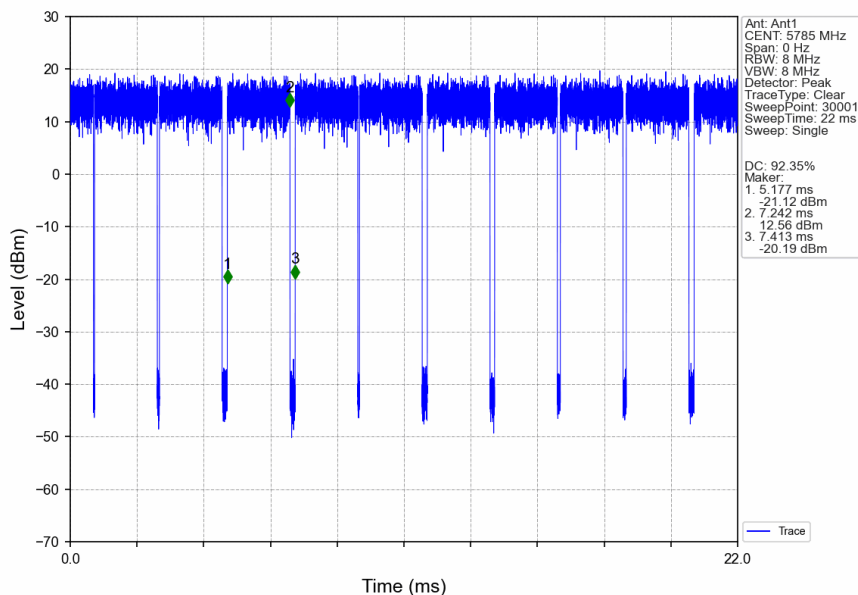


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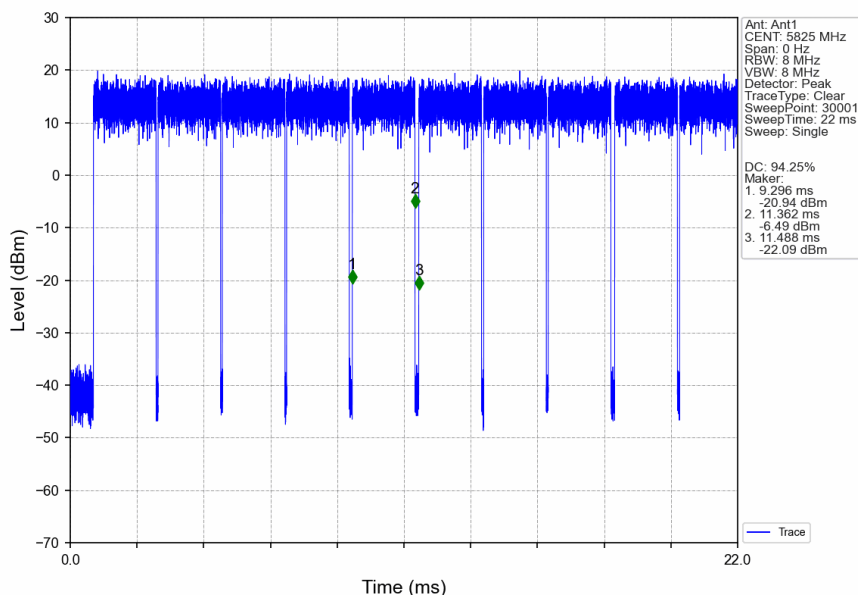
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



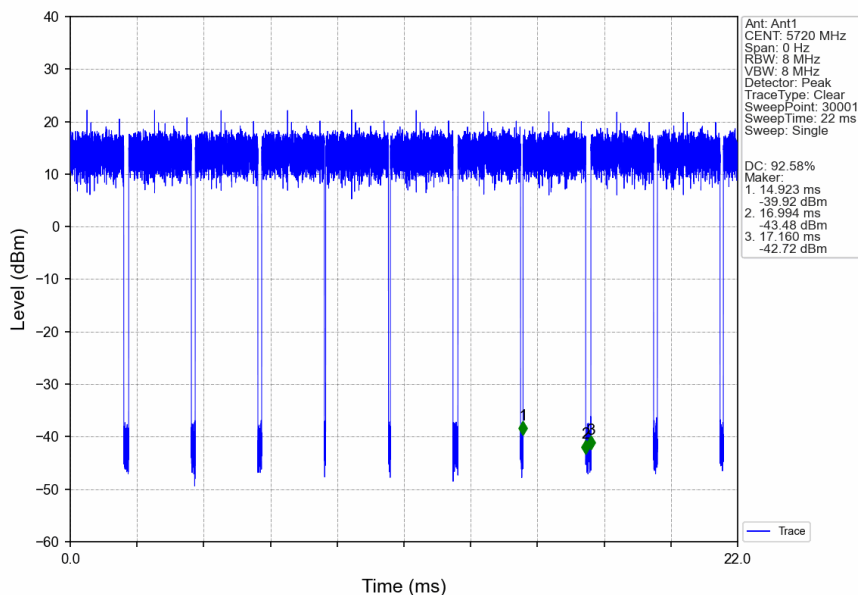
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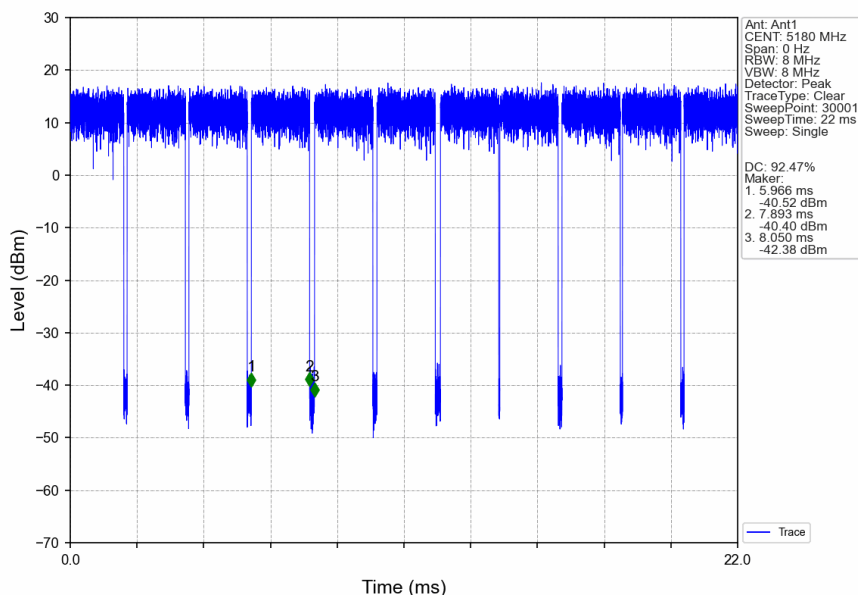
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802.11a_HCH_5720MHz_Ant1_NTNV



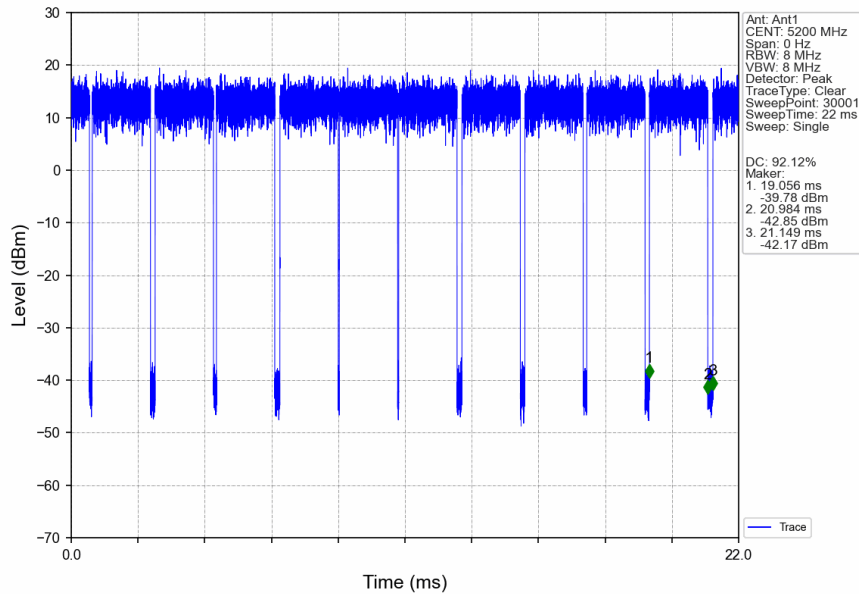
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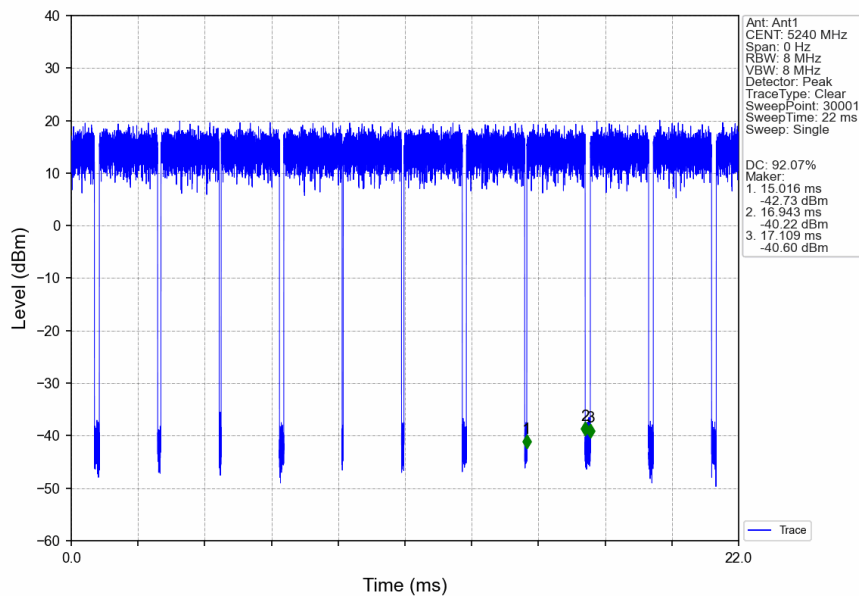
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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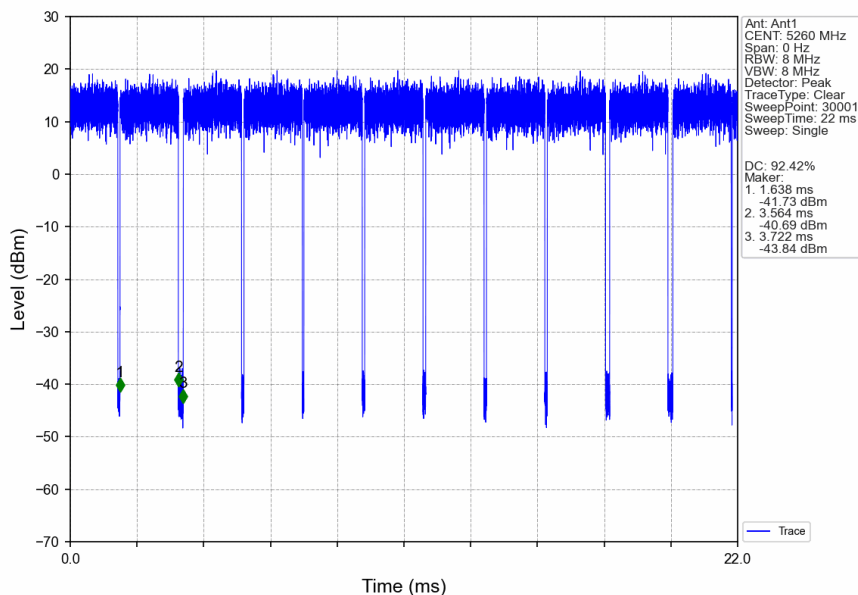
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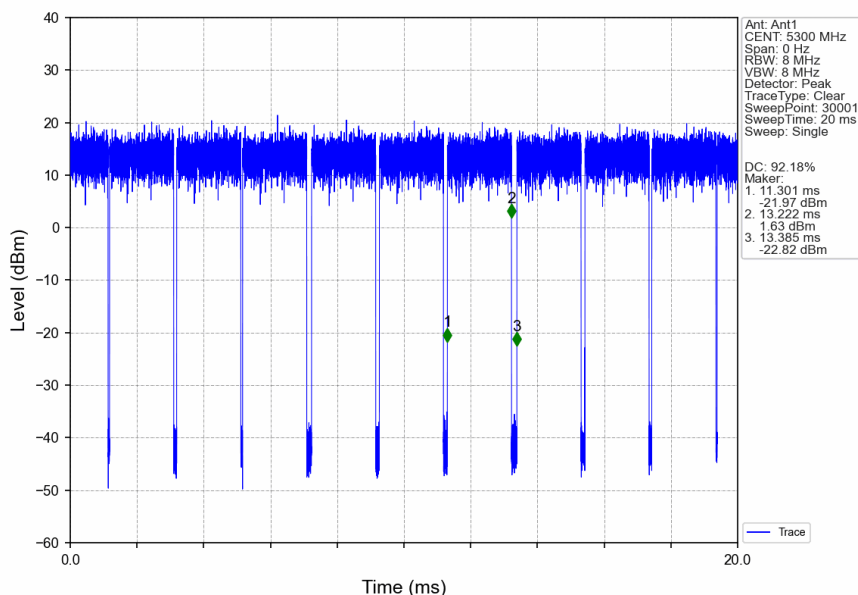
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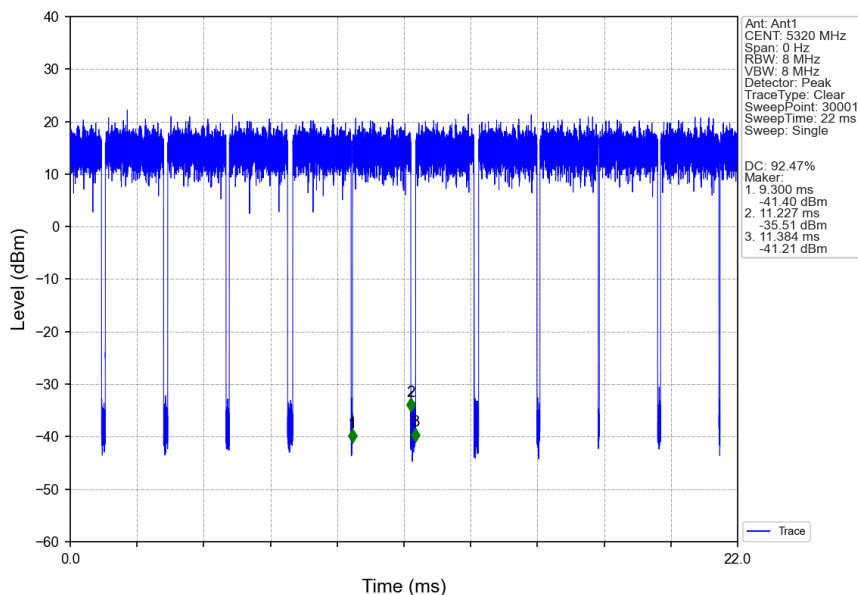


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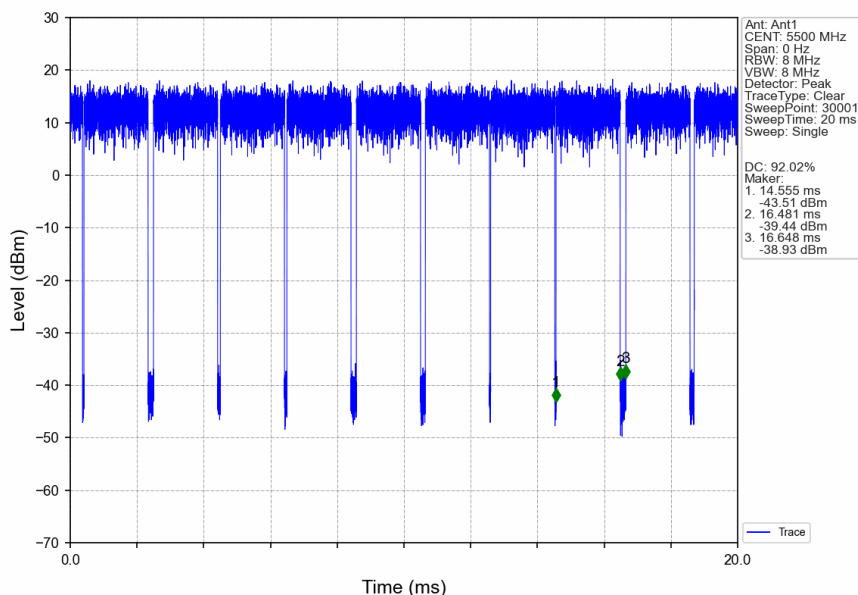
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV

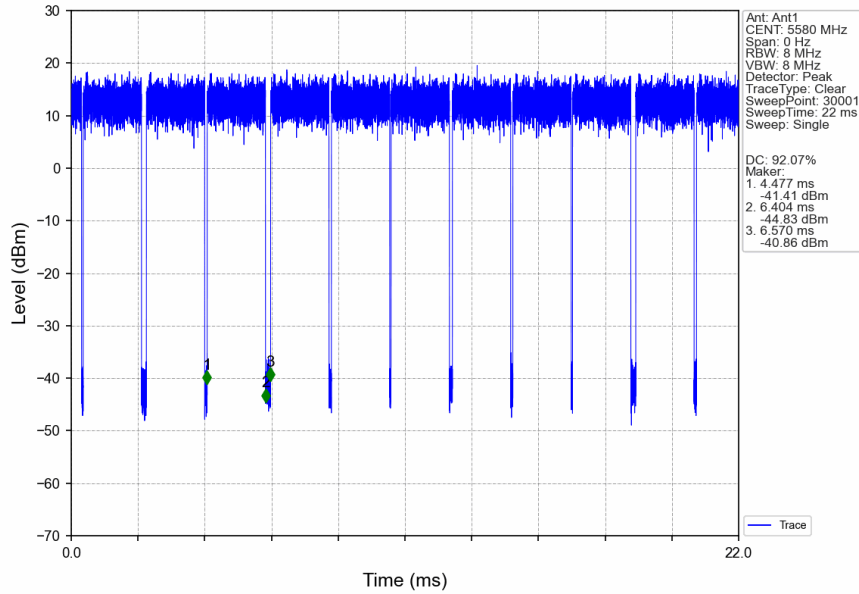


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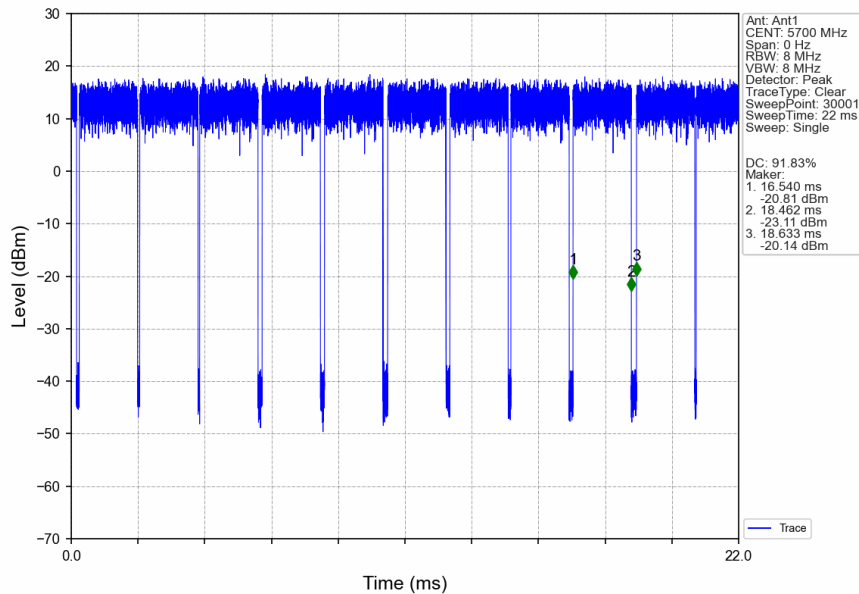
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802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



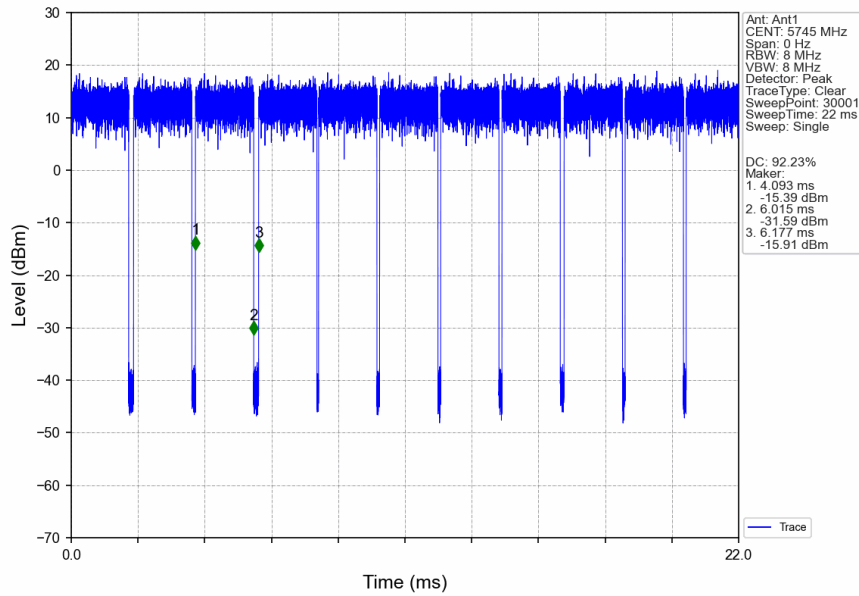
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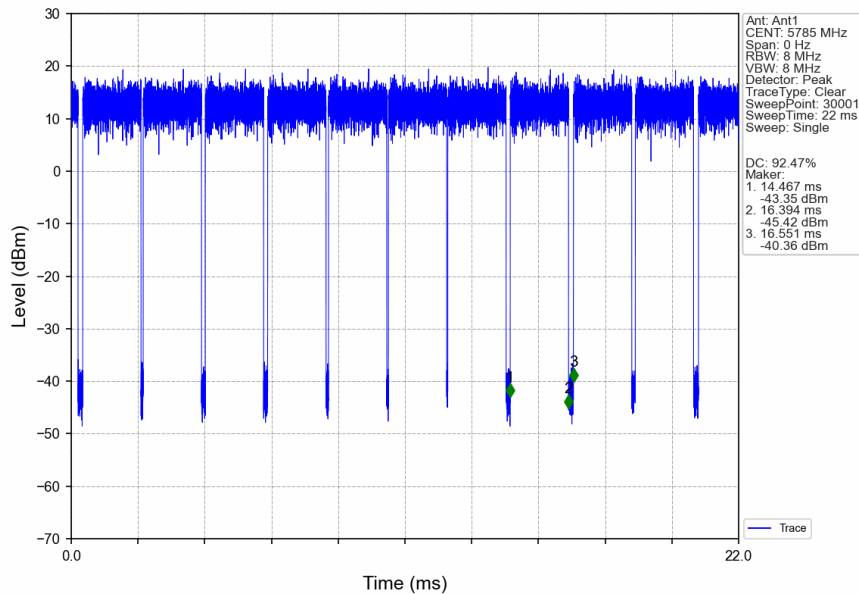
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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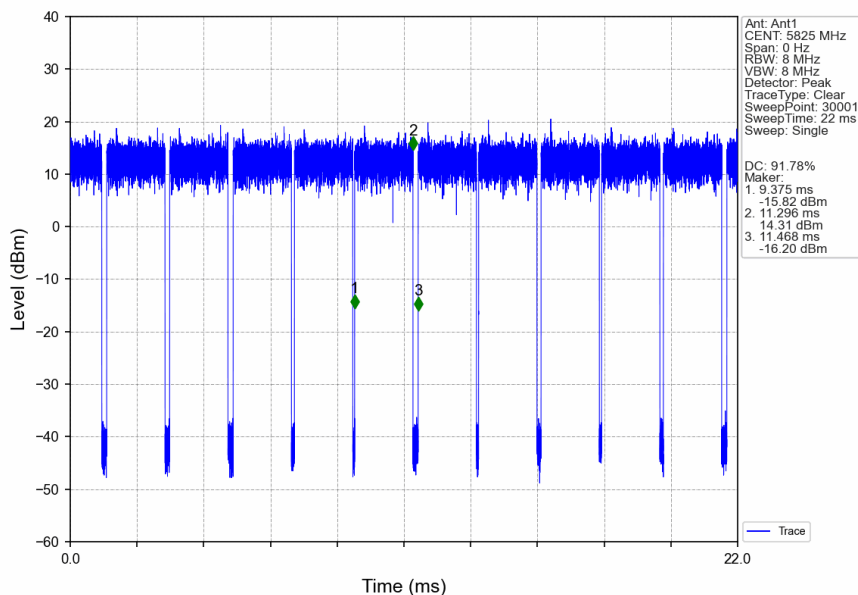


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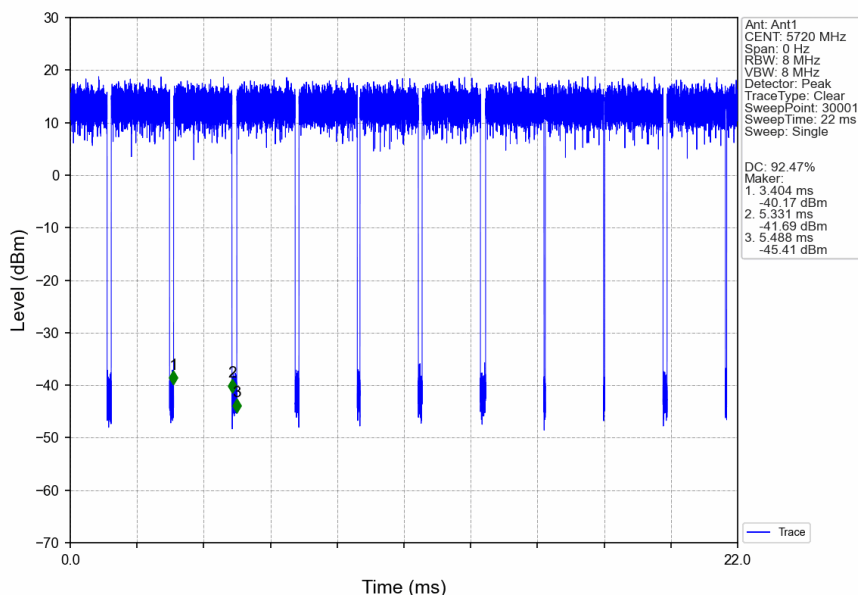
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5720MHz_Ant1_NTNV



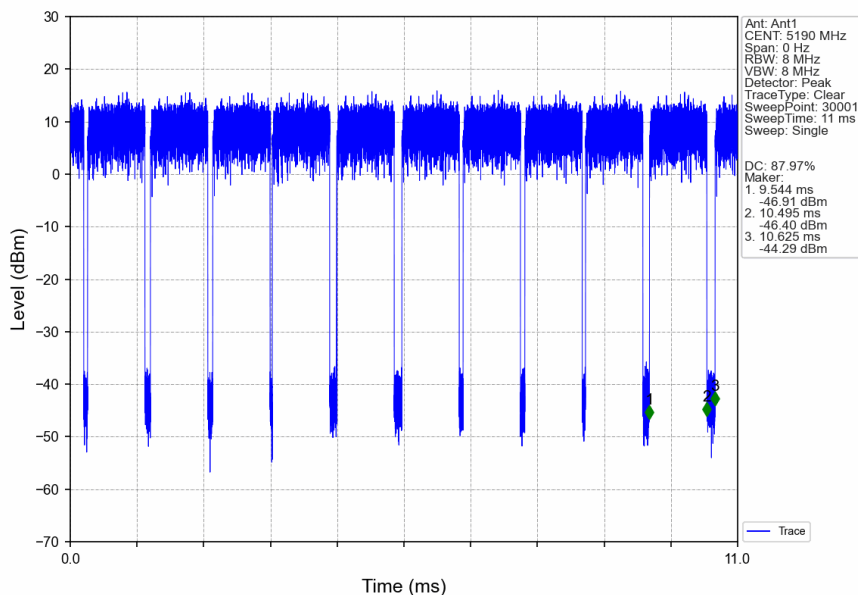
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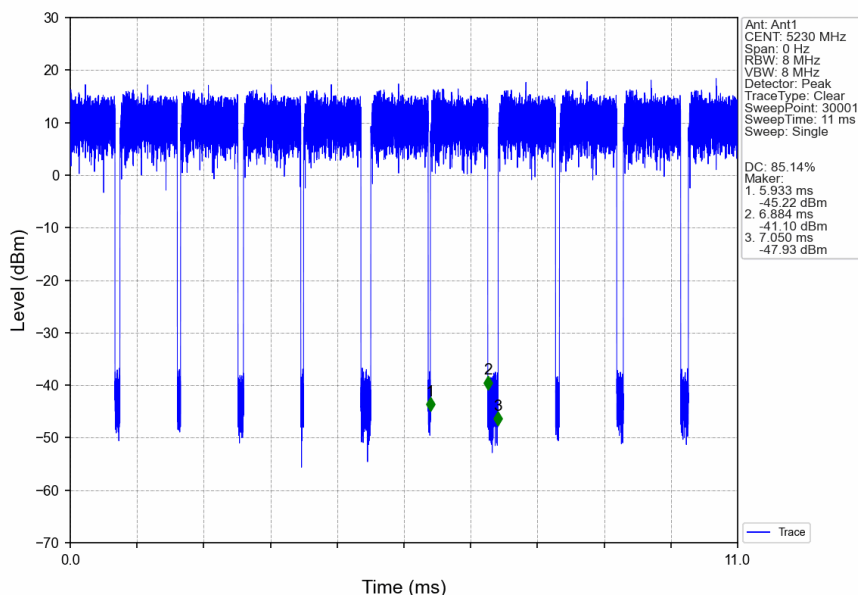
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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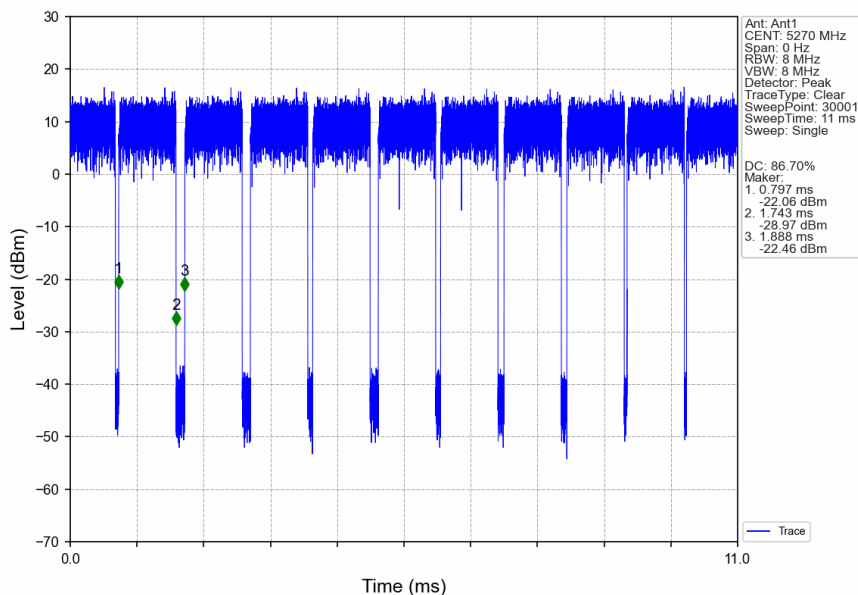
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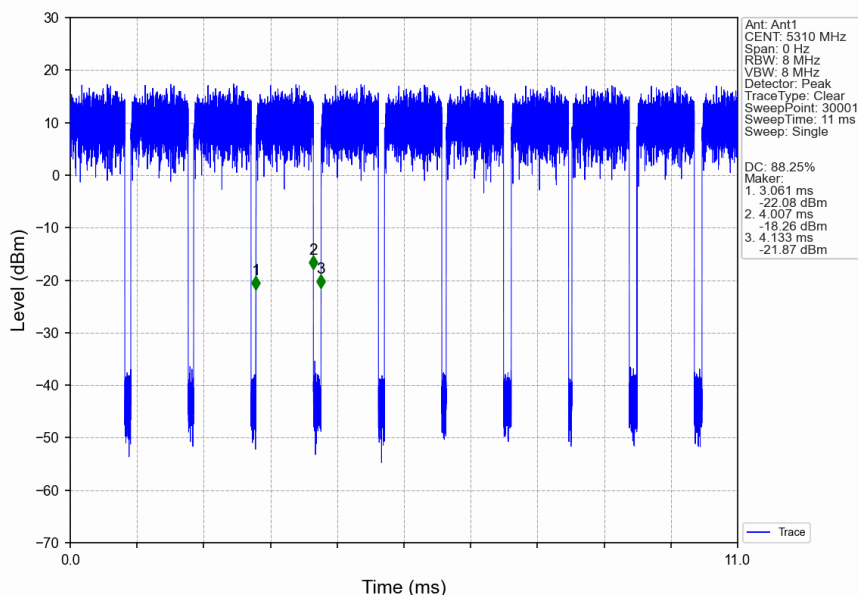
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV

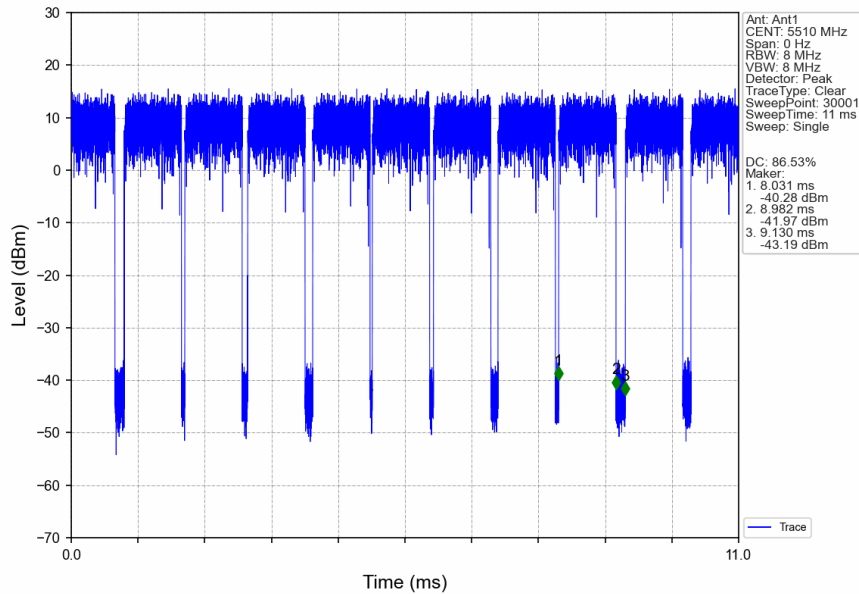


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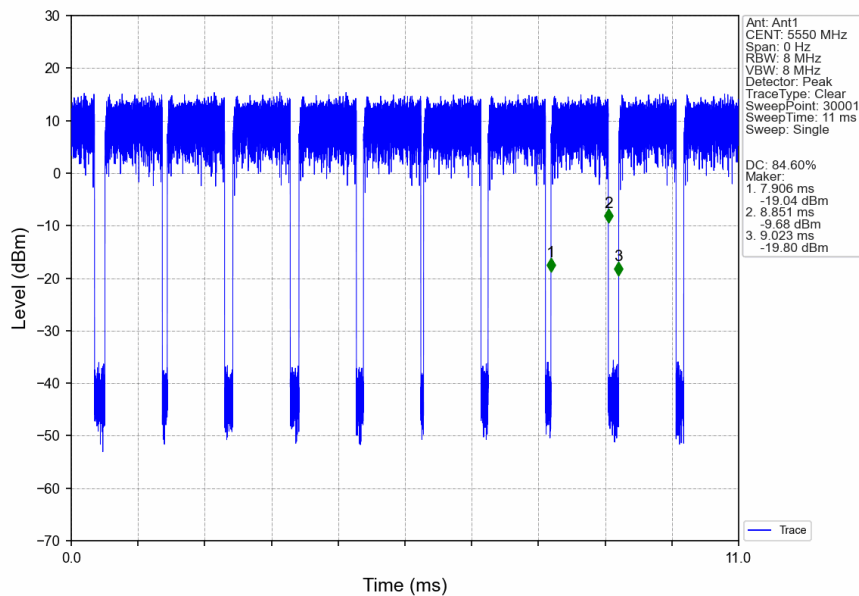
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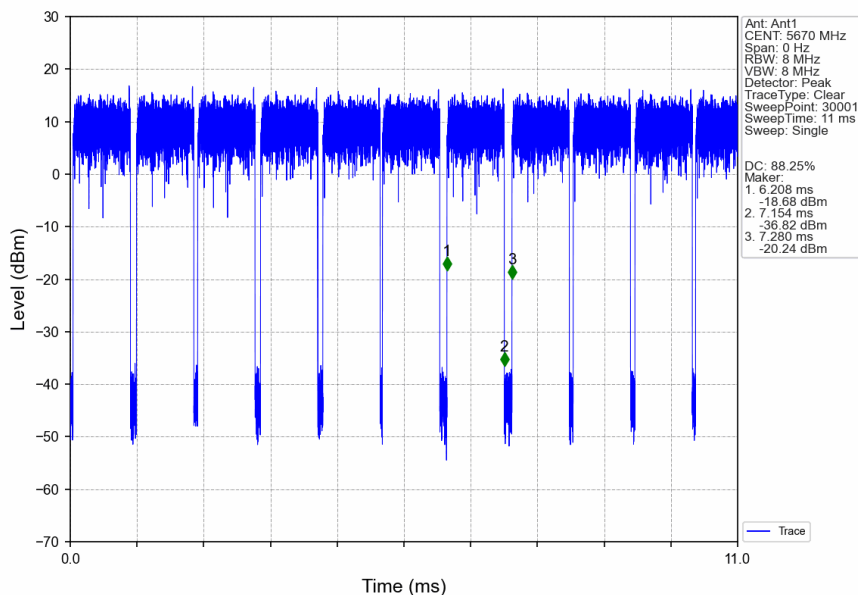
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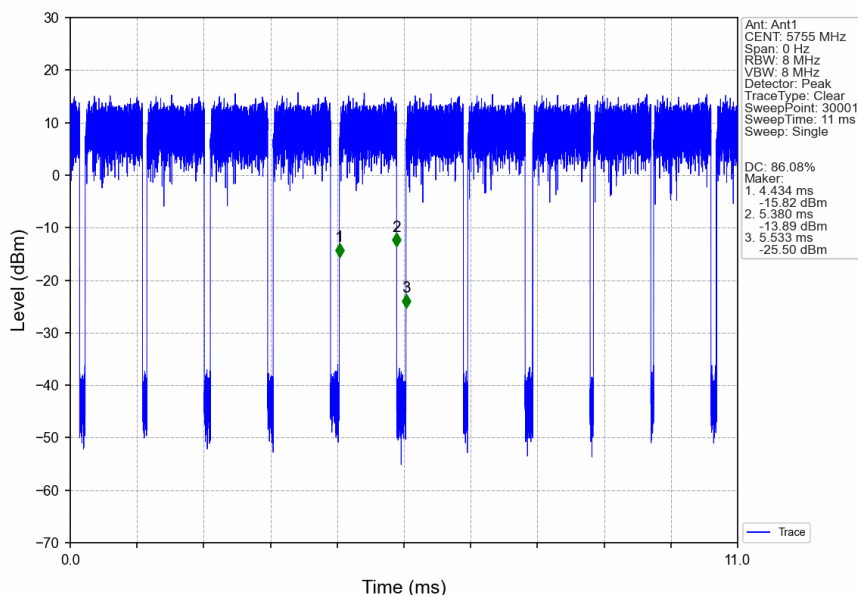
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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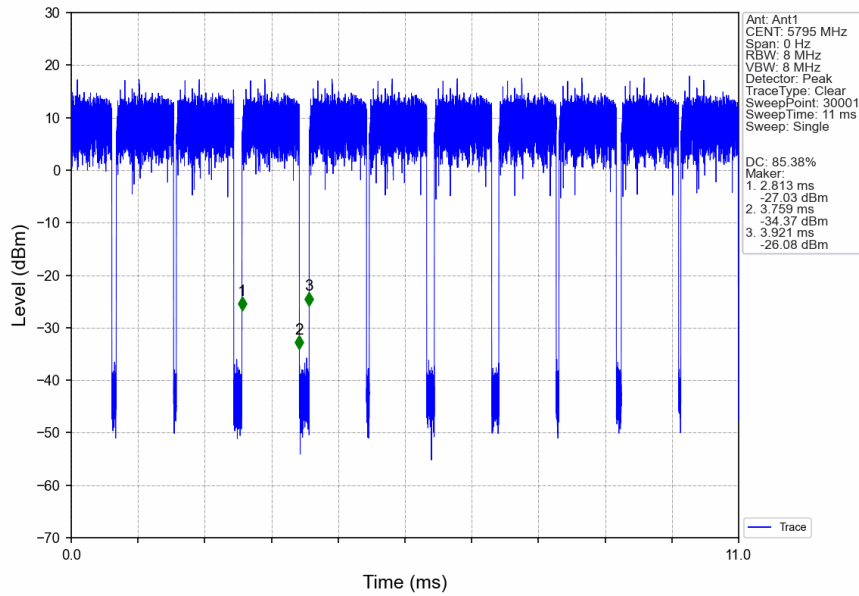
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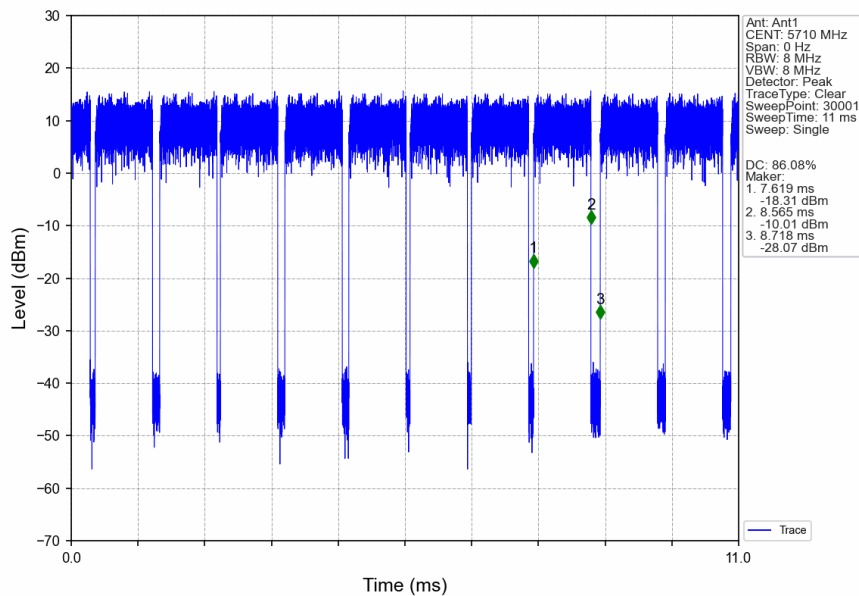
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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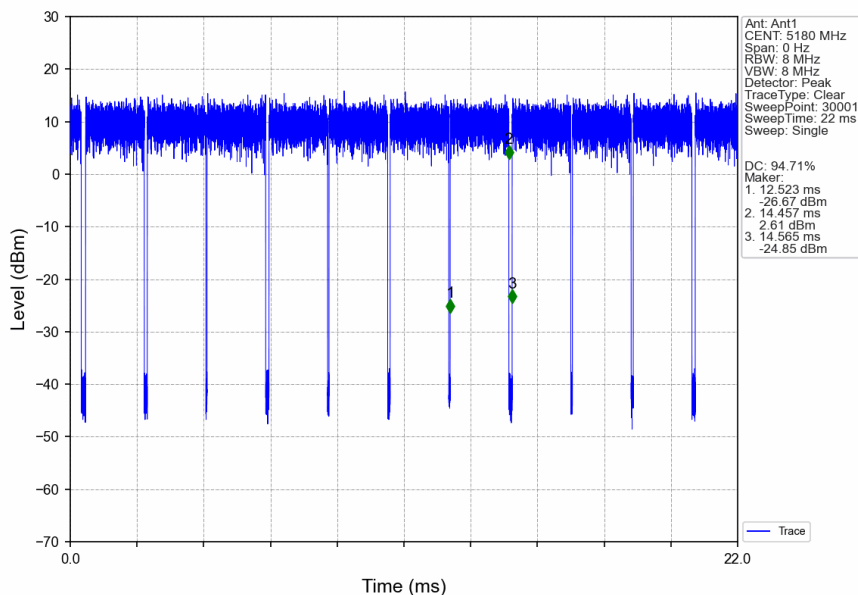


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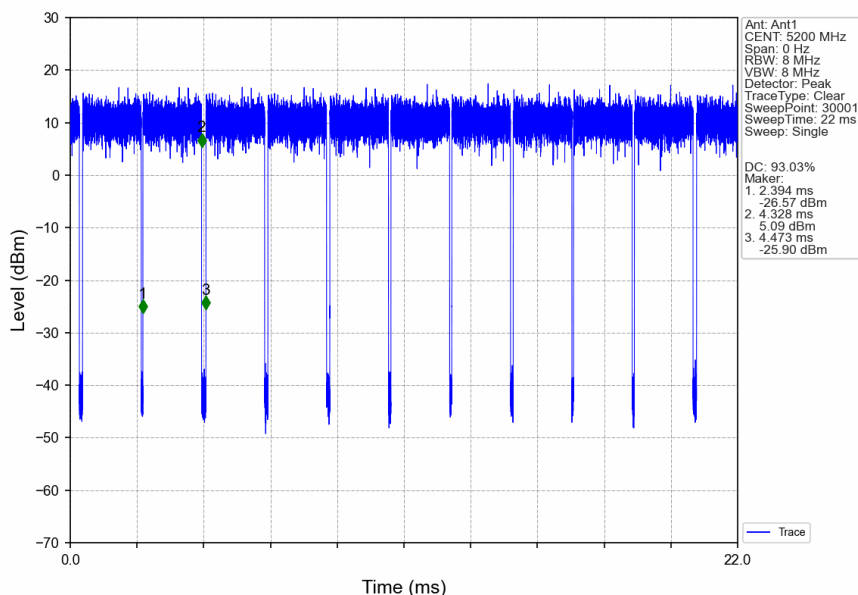
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



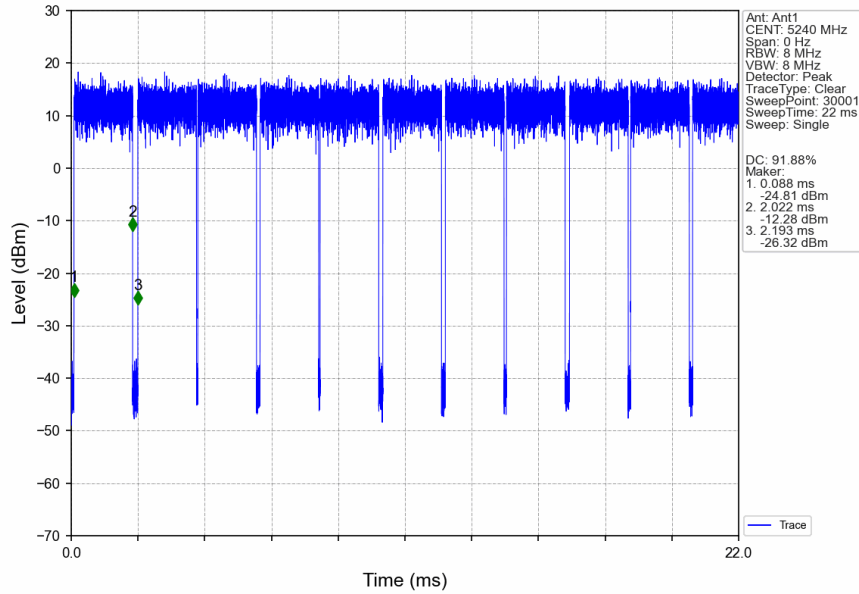
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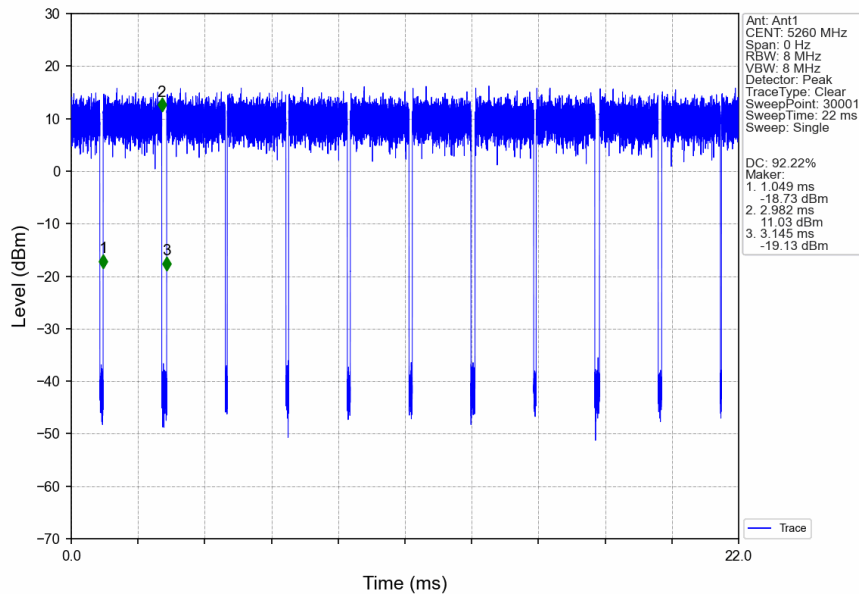
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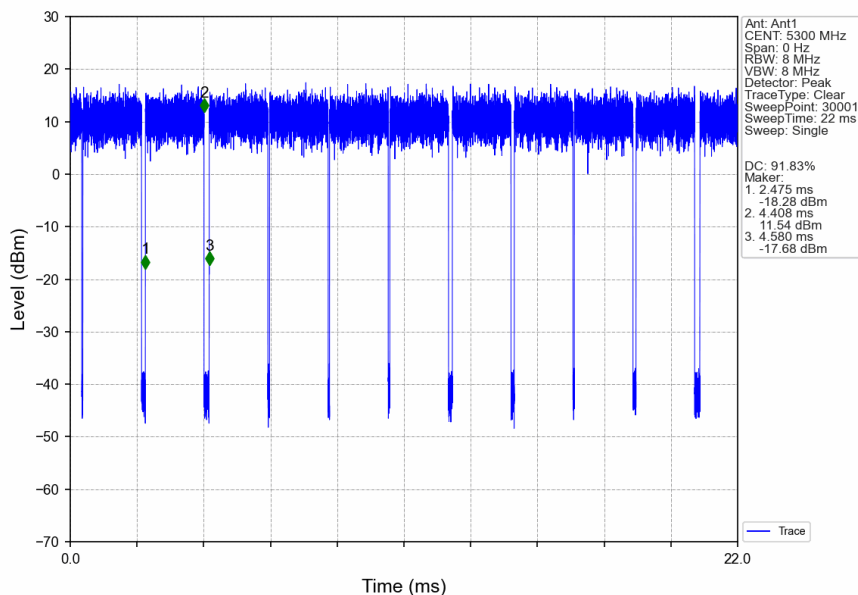


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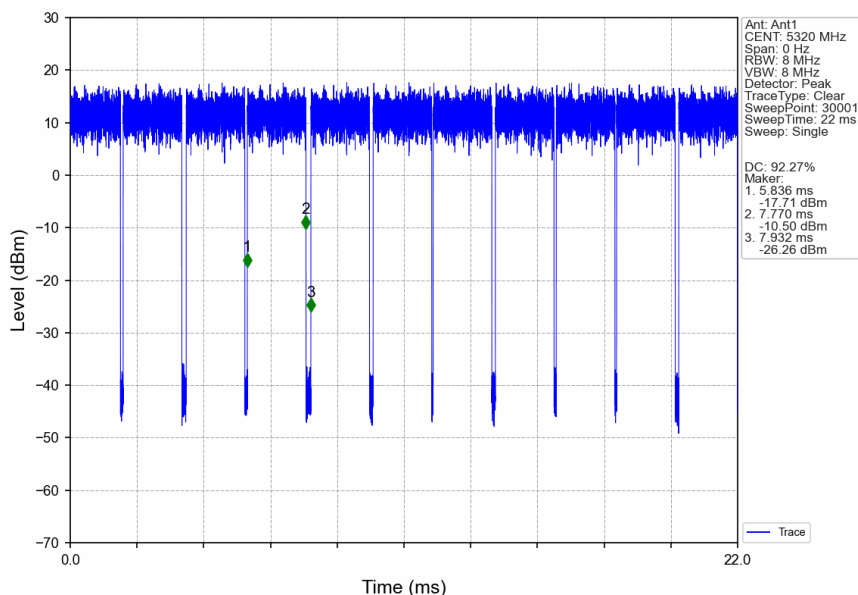
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



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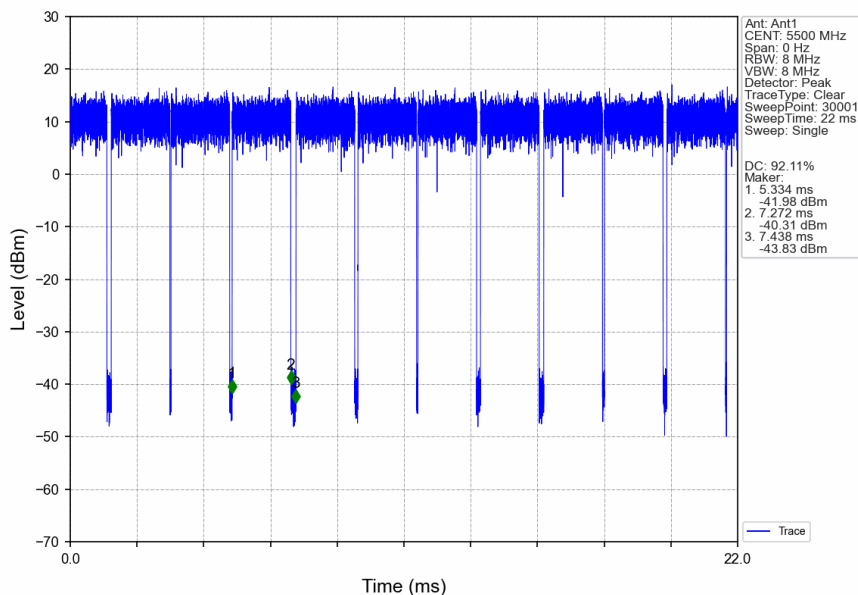
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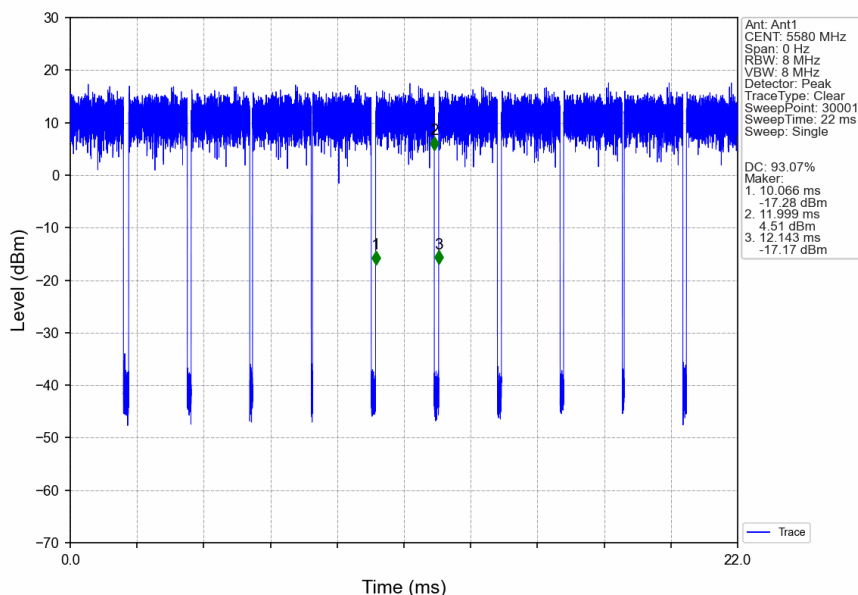
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



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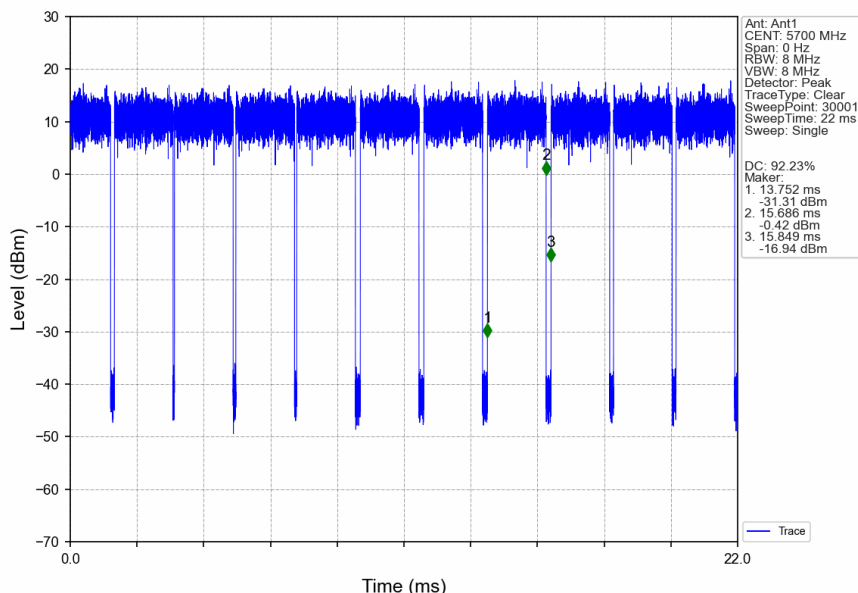
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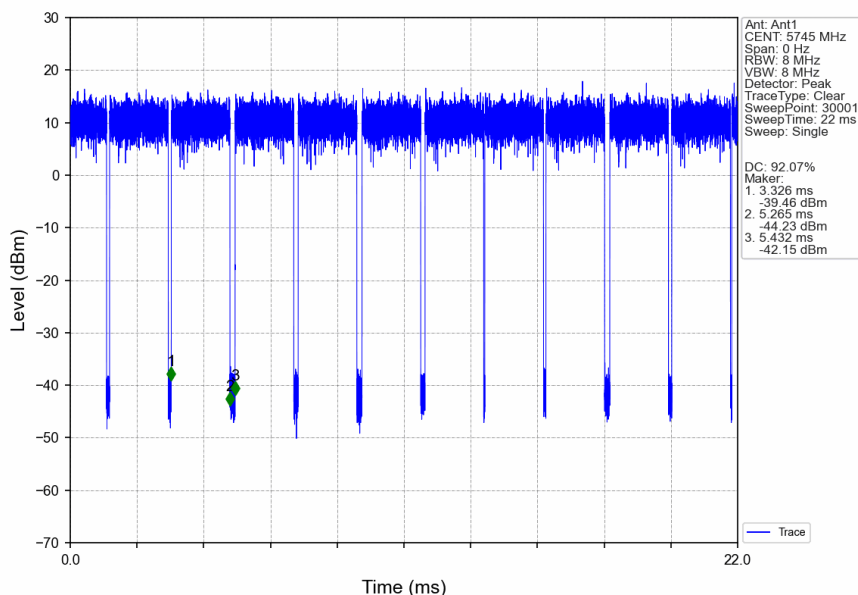
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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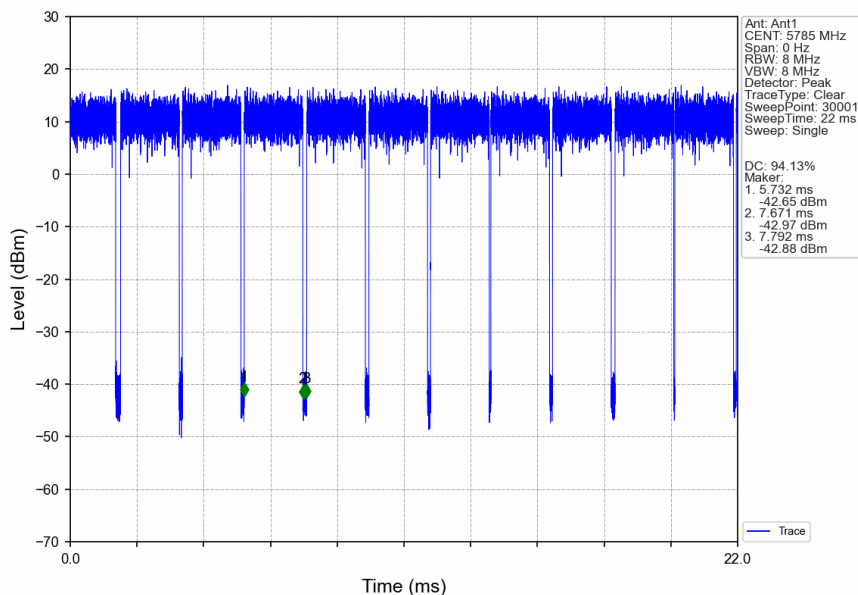
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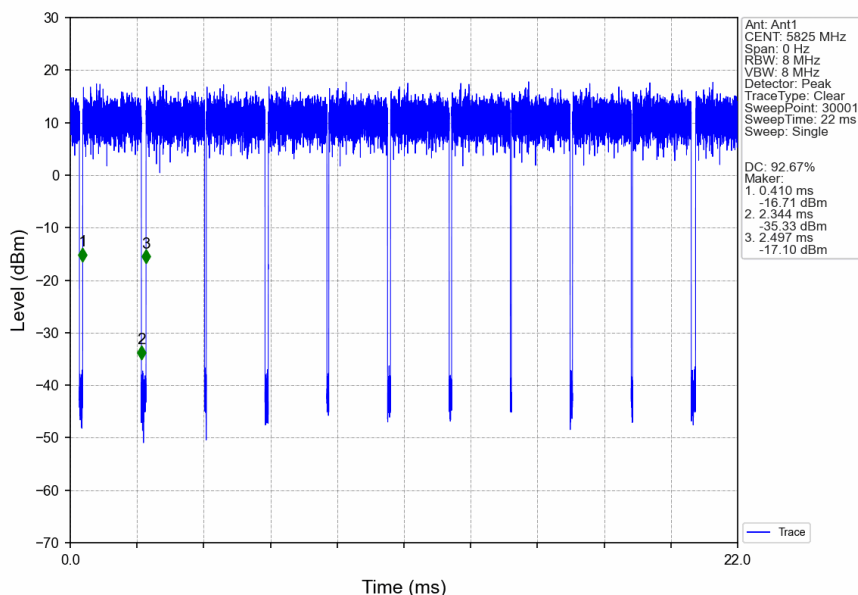
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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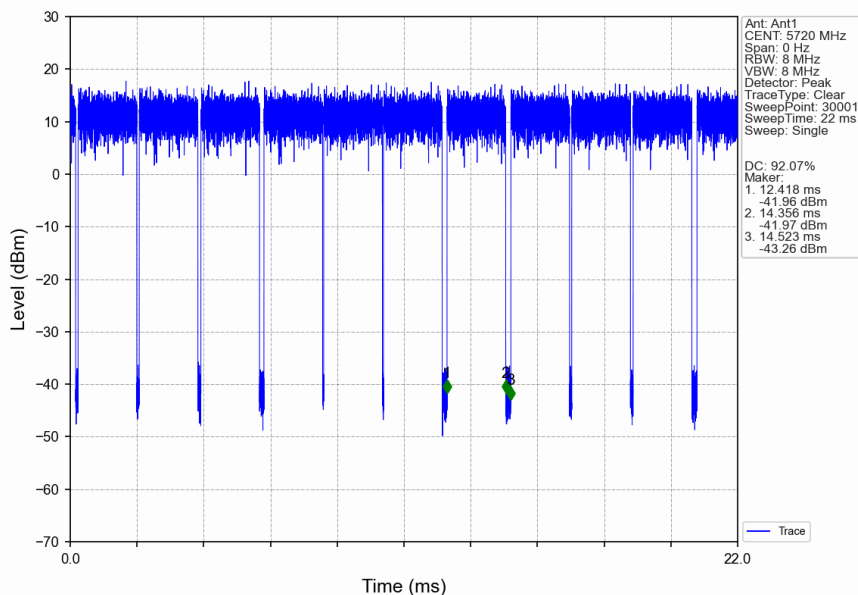
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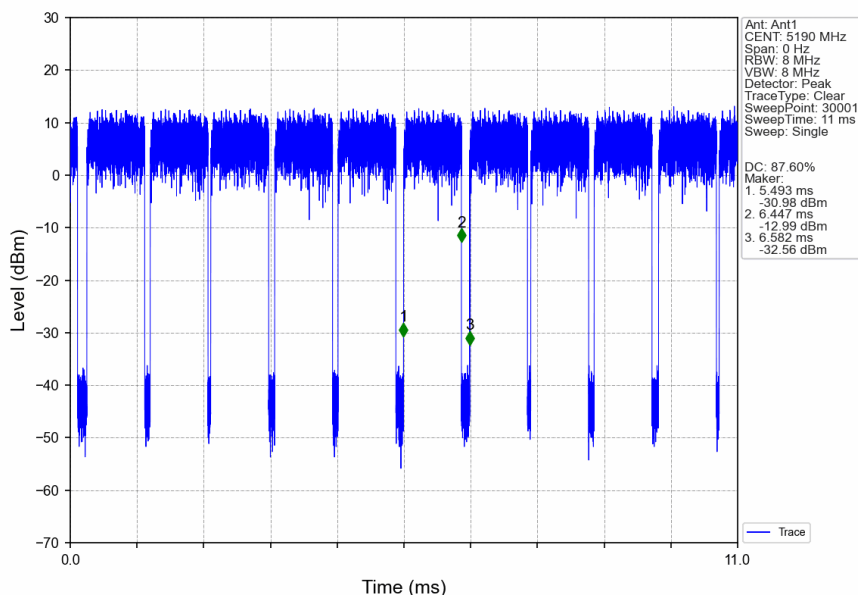
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802.11ac(VHT20)_HCH_5720MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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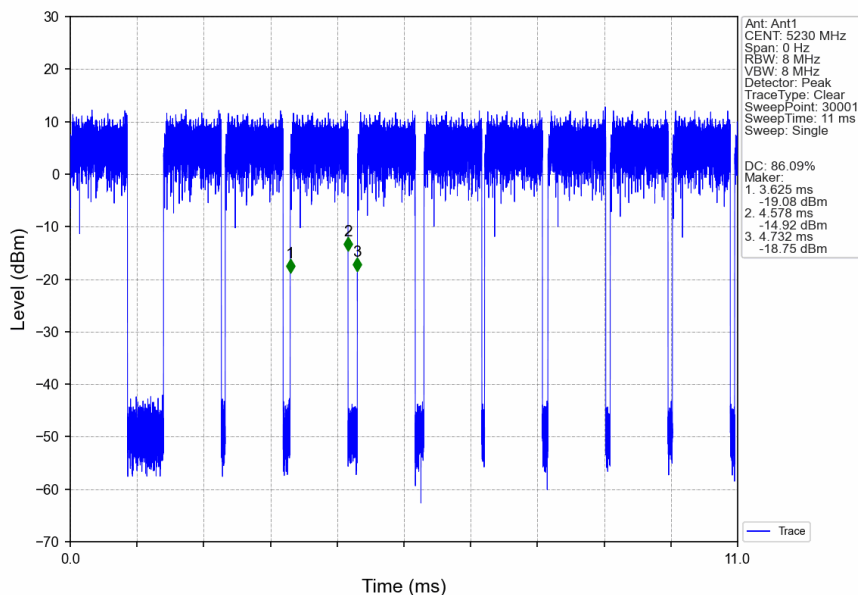
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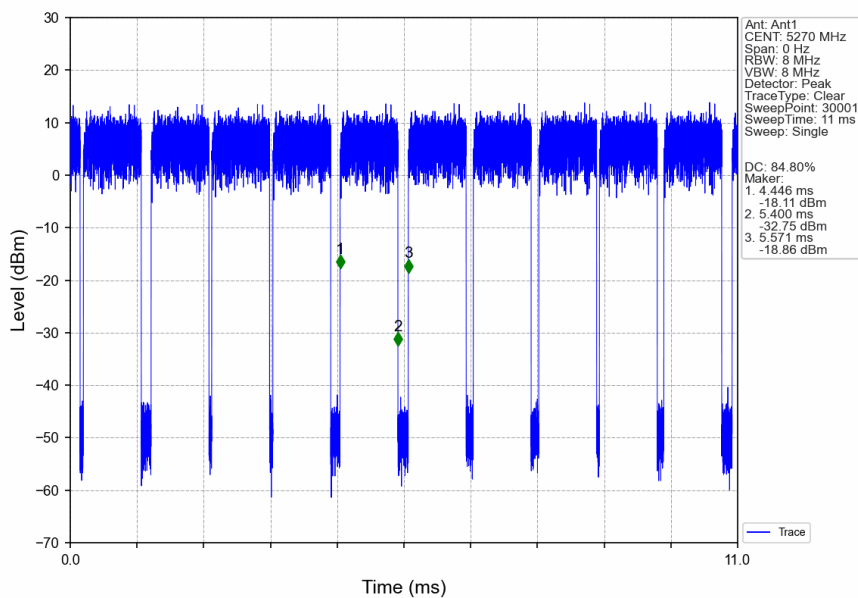
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



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