

TEST REPORT

Application No.: SZCR2511005026AT (SGS SZ NO.: T52510360044EM)
Applicant: INNOVATION FIRST, INC.
Address of Applicant: 1519 INT.30 W, Greenville Texas 75402, United States
Equipment Under Test (EUT):
EUT Name: VEX AIR DRONE CONTROLLER
Item No.: 737-9052-810
FCC ID: UKU-RAD26
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-11-14
Date of Test: 2026-02-04 to 2026-05-26
Date of Issue: 2026-05-27

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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SZEMC-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-05-27		Original

Authorized for issue by:				
		Martin Tang		
		Martin Tang/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (Below 1GHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2020) Section 12.5.3	Pass
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2020) Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	2*Rechargeable battery DC3.6V,2500mAh for remote controller ,Charged by adapter Adapter model:GPE015K-050300-Z Input: AC 100-240V, 50/60Hz, 0.4A; Output: DC 5.0V,3.0A,15.0W Max
Cable(s):	For remote controller: USB-C cable: about 1m unshielded
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5700MHz (11 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: 5510-5670MHz (5 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Modulation Type:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11n: 20MHz; 802.11n: 40MHz
DFS Function:	Slave with Radar detection
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	5.46dBi

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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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
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Duty Cycle	$\pm 0.3\%$
99% Bandwidth	$\pm 0.3\%$
26dB Emission bandwidth	$\pm 0.3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 0.3\%$
Maximum Conducted output power	$\pm 0.8\text{dB}$
Peak Power spectrum density	$\pm 0.4\text{dB}$
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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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22
Coaxial Cable	SGS	N/A	SEM039-01	2025-07-05	2026-07-04

Radiated Spurious Emissions Below 30MHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-21 2026-03-21	2026-03-20 2027-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2026-02-02	2027-02-01
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04



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Radiated Spurious Emissions 30MHz-1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22
Coaxial Cable	SGS	N/A	SEM039-01	2025-07-05	2026-07-04



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2025-09-10	2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2026-02-04	2027-02-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03 2026-02-14	2026-03-02 2027-02-13



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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.

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 Radiated Emissions (Below 1GHz)

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

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

Measurement Distance: 3m

Test Engineer: Ted Wu

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).

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 48.2 % RH

Atmospheric Pressure: 1015 mbar



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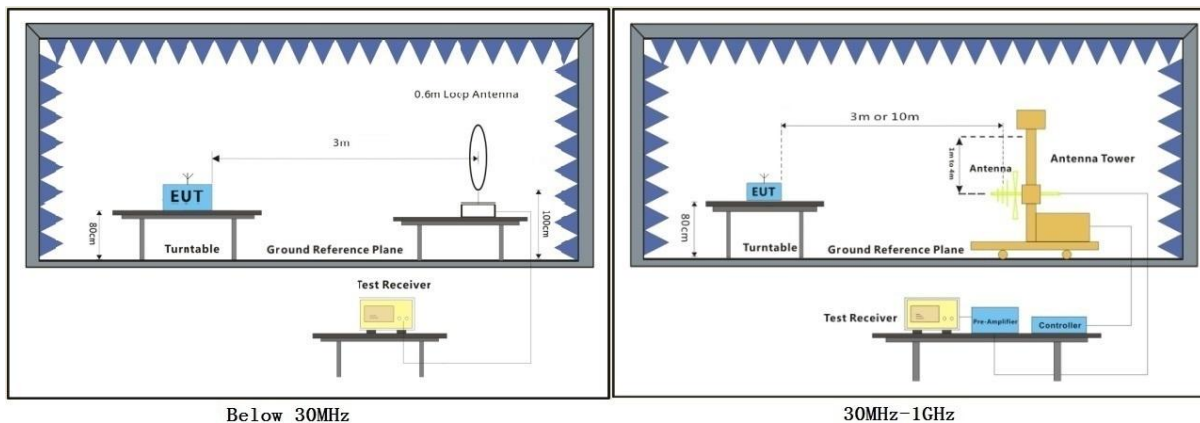
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7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Pre-scan	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 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.

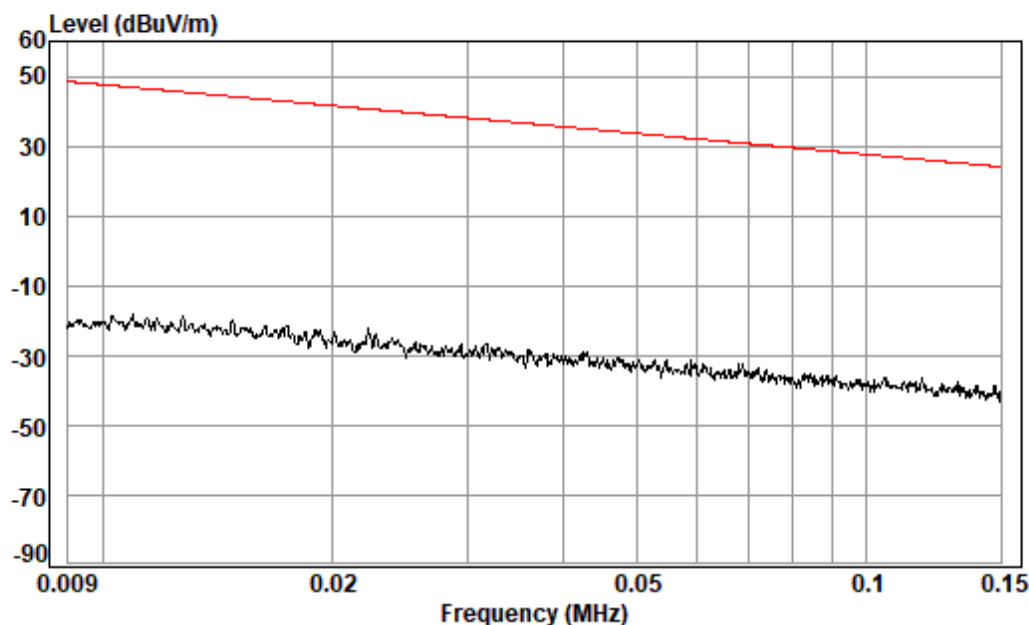


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Test Mode: 08; Polarity: Coaxial



Condition: 3m

Job No. : 05026AT

Test Mode: 08

: coaxial



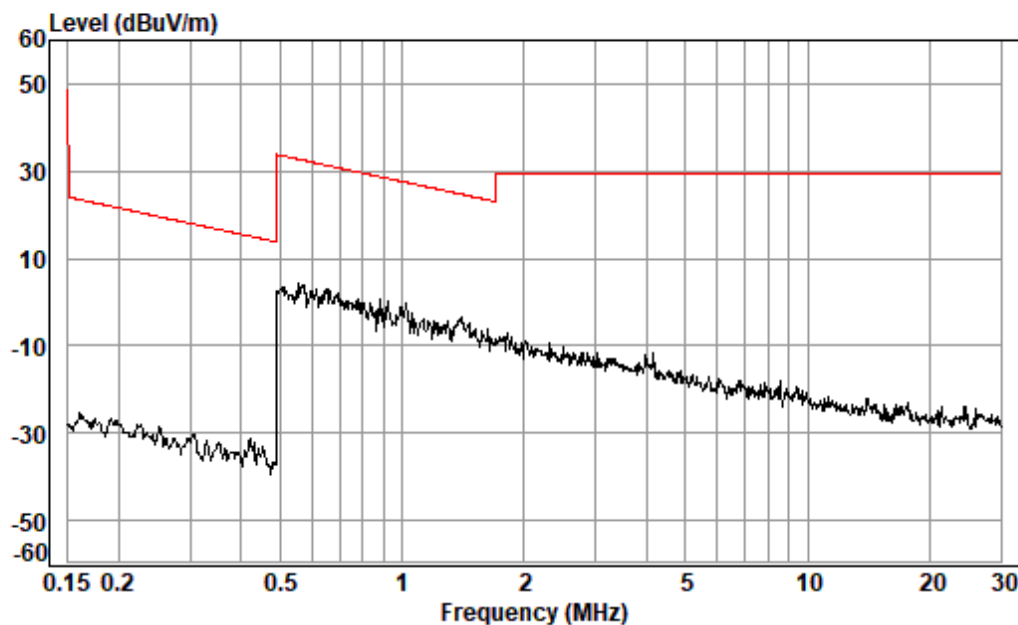
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Test Mode: 08; Polarity: Coaxial



Condition: 3m

Job No. : 05026AT

Test Mode: 08

: coaxial



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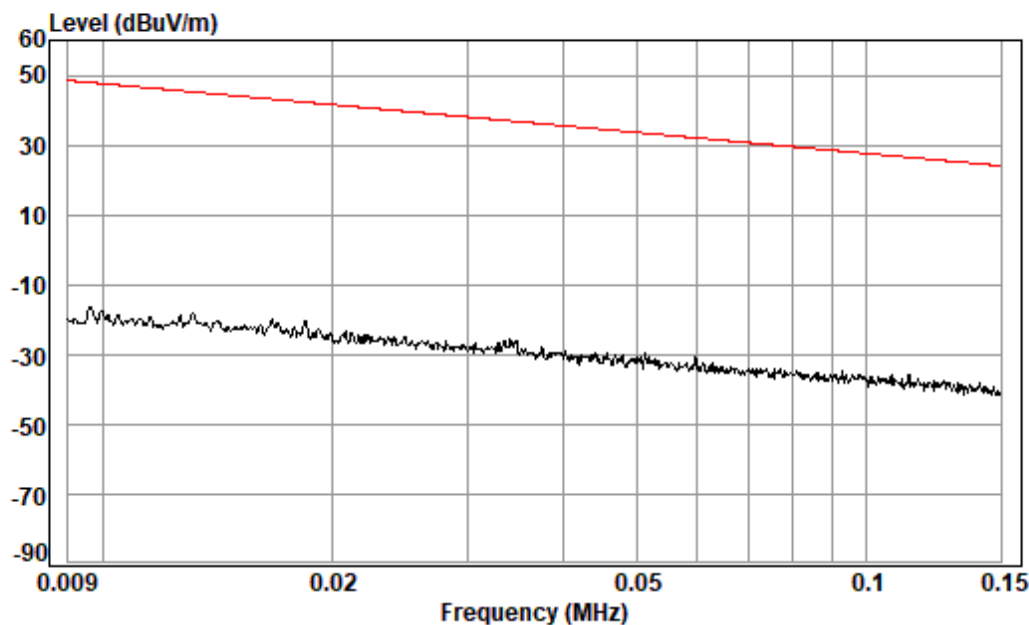
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Test Mode: 08; Polarity: Coplanar



Condition: 3m

Job No. : 05026AT

Test Mode: 08

: coplanar



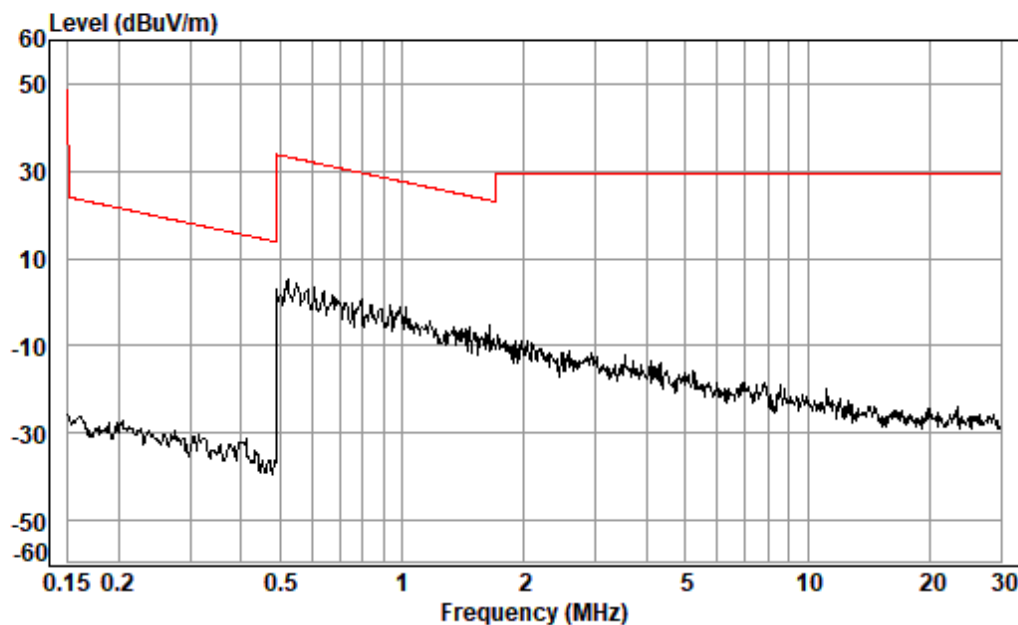
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Test Mode: 08; Polarity: Coplanar



Condition: 3m

Job No. : 05026AT

Test Mode: 08

: coplanar



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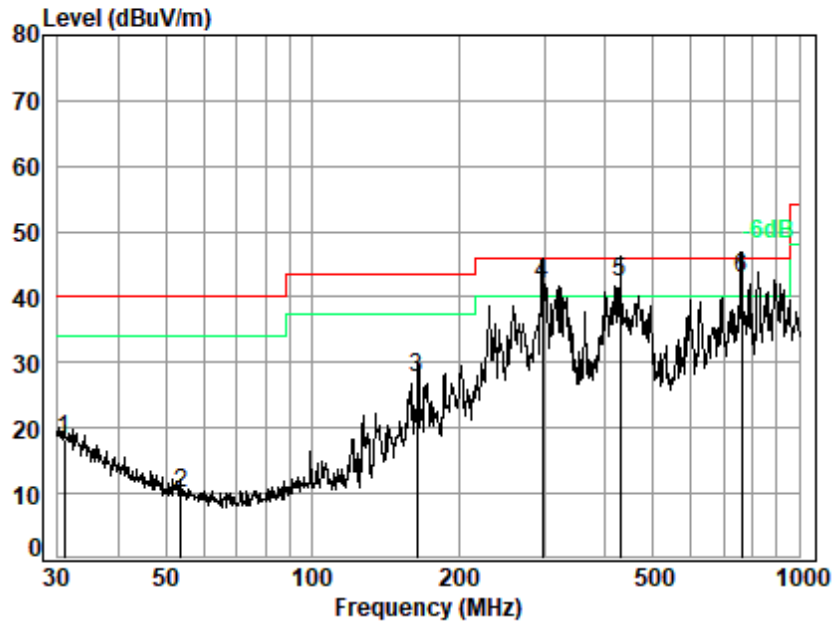
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Test Mode: 08; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 05026AT/05027AT

Test Mode: 08

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.962	20.96	0.75	27.65	24.31	18.37	40.00	-21.63 QP
2	53.693	12.31	0.91	27.63	24.49	10.08	40.00	-29.92 QP
3	164.330	13.80	1.56	27.74	40.08	27.70	43.50	-15.80 QP
4	297.224	17.50	2.10	27.51	49.90	41.99	46.00	-4.01 QP
5	429.523	20.75	2.59	27.81	46.78	42.31	46.00	-3.69 QP
6 q	760.704	26.89	3.58	27.69	40.04	42.82	46.00	-3.18 QP

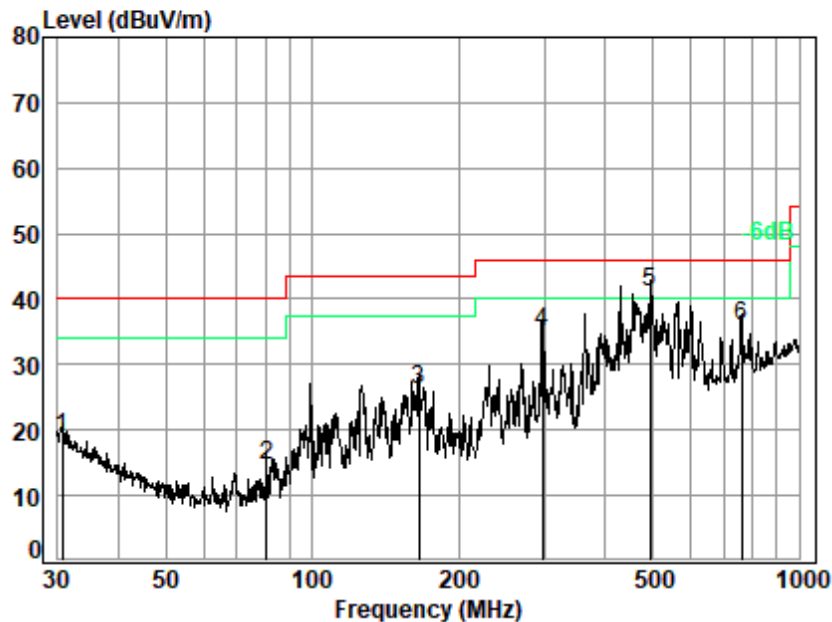


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Test Mode: 08; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 05026AT/05027AT

Test Mode: 08

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	30.638	21.12	0.75	27.65	24.62	18.84	40.00	QP
2	80.644	10.73	1.11	27.61	30.28	14.51	40.00	QP
3	165.487	13.80	1.57	27.75	38.66	26.28	43.50	QP
4	297.224	17.50	2.10	27.51	42.78	34.87	46.00	QP
5 q	494.199	22.42	2.79	27.93	43.64	40.92	46.00	QP
6	760.704	26.89	3.58	27.69	33.04	35.82	46.00	QP



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7.2 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10 (2020) Section 6.6
 Measurement Distance: 1-18GHz: 3m; Above 18GHz: 1m
 Test Engineer: Xing Guo

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:

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).



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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

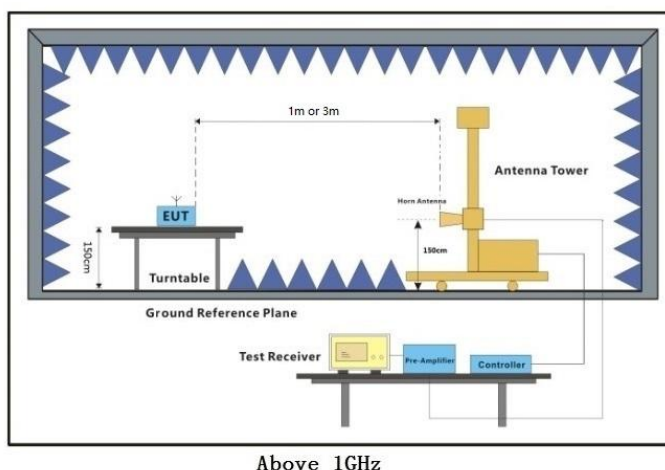
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For 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 $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

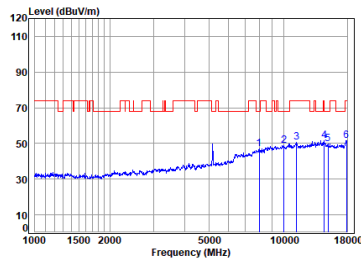


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11n_20M_TX_CH_36_Horizontal-Peak

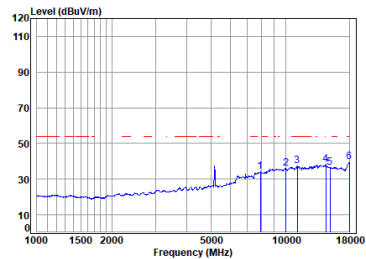


Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5180 TX RSE

: 5G Wi-Fi 11n20 remote

Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	Factor	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
							dB		
1	7989.893	11.56	37.22	55.91	54.03	46.90	68.20	-21.30	Peak
2	10010.420	13.04	38.90	53.60	50.64	48.98	68.20	-19.22	Peak
3	11269.860	14.68	39.43	53.42	49.84	50.53	74.00	-23.47	Peak
4	14533.910	16.79	40.20	54.10	48.00	51.69	68.20	-16.51	Peak
5	15090.400	16.70	39.41	54.06	47.73	49.78	68.20	-18.42	Peak
6	17896.150	18.35	41.97	54.26	45.48	51.44	74.00	-22.56	Peak

11n_20M_TX_CH_36_Horizontal-Avg

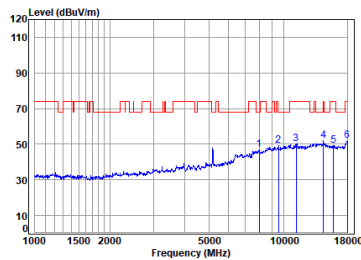


Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5180 TX RSE

: 5G Wi-Fi 11n20 remote

Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	Factor	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
							dB		
1	7920.911	11.54	37.30	55.94	41.19	34.09	-----	-----	Average
2	10010.420	13.04	38.90	53.60	37.66	36.00	-----	-----	Average
3	11140.310	14.70	39.38	53.46	36.65	37.27	54.00	-16.73	Average
4	14491.960	17.07	40.22	54.10	35.09	38.28	54.00	-15.72	Average
5	15090.400	16.70	39.41	54.06	34.62	36.67	-----	-----	Average
6	17896.150	18.35	42.60	54.30	32.85	39.50	54.00	-14.50	Average

11n_20M_TX_CH_36_Vertical-Peak

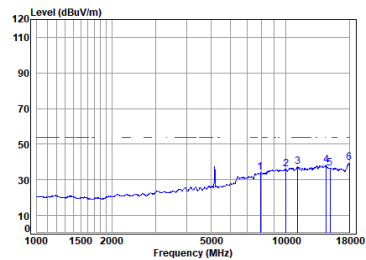


Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5180 TX RSE

: 5G Wi-Fi 11n20 remote

Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	Factor	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
							dB		
1	7989.893	11.56	37.22	55.91	54.19	47.06	68.20	-21.14	Peak
2	9530.432	12.52	38.76	54.10	51.93	49.11	68.20	-19.09	Peak
3	11264.900	14.75	39.50	53.44	49.38	50.19	74.00	-23.81	Peak
4	14490.130	16.98	40.30	54.10	48.93	52.11	68.20	-16.09	Peak
5	15090.410	17.16	38.50	53.76	47.58	49.48	74.00	-24.52	Peak
6	18000.000	18.35	42.60	54.30	45.45	52.10	74.00	-21.90	Peak

11n_20M_TX_CH_36_Vertical-Avg

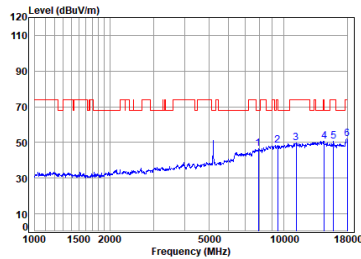


Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5180 TX RSE

: 5G Wi-Fi 11n20 remote

Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	Factor	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
							dB		
1	7920.911	11.54	37.30	55.94	41.23	34.13	-----	-----	Average
2	10010.420	13.04	38.90	53.60	37.57	35.91	-----	-----	Average
3	11172.560	14.73	39.45	53.45	36.47	37.20	54.00	-16.80	Average
4	14533.910	16.79	40.20	54.10	35.40	38.29	-----	-----	Average
5	15090.400	16.70	39.41	54.06	34.60	36.65	-----	-----	Average
6	17896.150	18.35	42.60	54.30	32.89	39.54	54.00	-14.46	Average

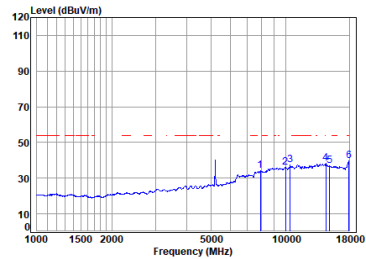
11n_20M_TX_CH_44_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5220 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	53.48	46.38	68.20	-21.82 Peak	0.00
2 9448.149	12.43	38.90	54.19	51.22	48.36	74.00	-25.64 Peak	0.00
3 11204.900	14.75	39.50	53.44	49.99	49.00	74.00	-24.20 Peak	0.00
4 pp14533.910	16.79	40.20	54.10	47.64	50.53	68.20	-17.67 Peak	0.00
5 15850.410	17.16	38.50	53.76	48.52	50.42	74.00	-23.58 Peak	0.00
6 18000.000	18.35	42.60	54.30	45.42	52.07	74.00	-21.93 Peak	0.00

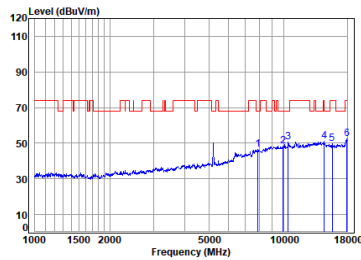
11n_20M_TX_CH_44_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5220 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.16	34.06	-----	Average	0.00
2 9981.525	12.97	38.83	53.62	37.82	36.00	-----	Average	0.00
3 10423.000	13.62	39.22	53.56	38.20	37.48	-----	Average	0.00
4 14491.960	17.07	40.22	54.10	35.11	38.30	54.00	-15.70 Average	0.00
5 15046.850	16.65	39.45	54.08	34.77	36.79	-----	Average	0.00
6 pp17948.050	18.30	42.29	54.28	33.25	39.56	54.00	-14.44 Average	0.00

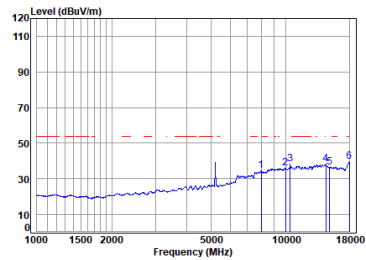
11n_20M_TX_CH_44_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5220 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7875.254	11.48	37.20	55.97	54.00	46.71	68.20	-21.49 Peak	0.00
2 9952.717	12.91	38.71	53.65	50.30	48.27	68.20	-19.93 Peak	0.00
3 10423.000	13.62	39.22	53.56	51.49	50.77	68.20	-17.43 Peak	0.00
4 pp14533.910	16.79	40.20	54.10	48.13	51.02	68.20	-17.18 Peak	0.00
5 15668.210	17.24	38.66	53.83	47.49	49.56	74.00	-24.44 Peak	0.00
6 17948.050	18.30	42.29	54.28	46.31	52.62	74.00	-21.38 Peak	0.00

11n_20M_TX_CH_44_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5220 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7989.893	11.56	37.22	55.91	41.69	34.56	-----	Average	0.00
2 9981.525	12.97	38.83	53.62	37.72	35.90	-----	Average	0.00
3 10423.000	13.62	39.22	53.56	38.92	38.20	-----	Average	0.00
4 14491.960	17.07	40.22	54.10	35.00	38.19	54.00	-15.81 Average	0.00
5 15046.850	16.65	39.45	54.08	34.52	36.54	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	32.85	39.50	54.00	-14.50 Average	0.00



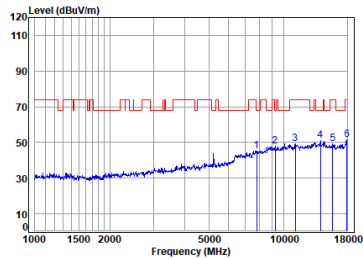
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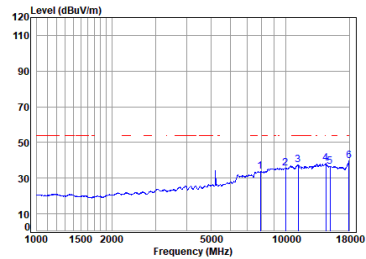
11n_20M_TX_CH_48_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5240 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7784.729	11.33	37.00	56.02	52.91	45.22	68.20	-22.98	Peak 0.00
2 9258.909	12.23	38.70	54.40	51.37	47.90	68.20	-20.30	Peak 0.00
3 11140.310	14.70	39.30	53.46	48.60	49.22	74.00	-24.78	Peak 0.00
4 pp14030.450	16.51	40.52	54.10	48.34	51.27	68.20	-16.93	Peak 0.00
5 15713.560	17.24	38.60	53.81	47.17	49.20	74.00	-24.80	Peak 0.00
6 17948.050	18.30	42.29	54.28	45.21	51.52	74.00	-22.48	Peak 0.00

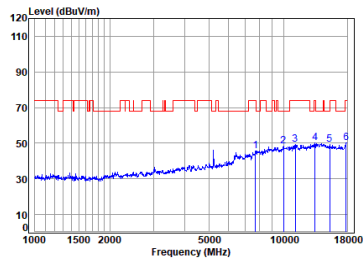
11n_20M_TX_CH_48_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5240 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.09	33.99	-----	Average	0.00
2 9981.525	12.97	38.83	53.62	37.62	35.80	-----	Average	0.00
3 11204.900	14.75	39.50	53.44	36.58	37.39	54.00	-16.61	Average 0.00
4 14491.960	17.07	40.22	54.10	35.08	38.27	54.00	-15.73	Average 0.00
5 15090.400	16.70	39.41	54.06	34.48	36.53	-----	Average	0.00
6 pp17948.050	18.30	42.29	54.28	33.29	39.60	54.00	-14.40	Average 0.00

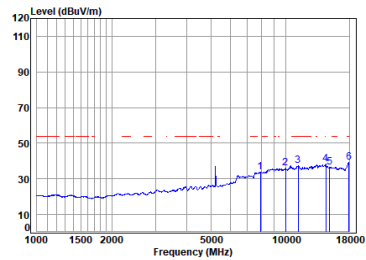
11n_20M_TX_CH_48_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5240 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7695.244	11.43	36.87	56.07	53.53	45.76	74.00	-28.24	Peak 0.00
2 9981.525	12.97	38.83	53.62	50.05	48.23	68.20	-19.97	Peak 0.00
3 11140.310	14.70	39.30	53.46	48.53	49.15	74.00	-24.85	Peak 0.00
4 13365.320	16.13	40.40	53.91	47.69	50.31	74.00	-23.69	Peak 0.00
5 pp15310.070	16.90	39.18	53.97	47.01	49.12	68.20	-19.08	Peak 0.00
6 17844.590	18.21	41.56	54.24	44.70	50.23	74.00	-23.77	Peak 0.00

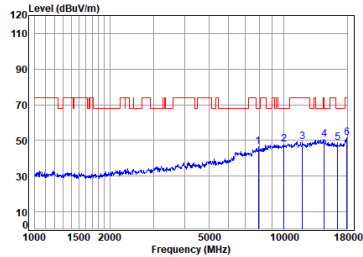
11n_20M_TX_CH_48_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5240 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.08	33.98	-----	Average	0.00
2 9981.525	12.97	38.83	53.62	37.64	35.82	-----	Average	0.00
3 11204.900	14.75	39.50	53.44	36.60	37.41	54.00	-16.59	Average 0.00
4 14491.960	17.07	40.22	54.10	34.93	38.12	54.00	-15.88	Average 0.00
5 15046.850	16.65	39.45	54.08	34.56	36.58	-----	Average	0.00
6 pp17948.050	18.30	42.29	54.28	33.14	39.45	54.00	-14.55	Average 0.00

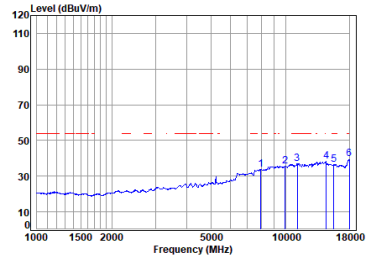
11n_20M_TX_CH_52_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5260 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	53.67	46.57	68.20	-21.63	Peak 0.00
2 10010.420	13.04	38.90	53.60	49.44	47.78	68.20	-20.42	Peak 0.00
3 11906.070	14.09	39.02	53.23	48.48	49.16	74.00	-24.84	Peak 0.00
4 pp14533.910	16.79	40.20	54.10	47.62	50.51	68.20	-17.69	Peak 0.00
5 16457.320	17.49	38.07	53.79	46.94	48.71	68.20	-19.49	Peak 0.00
6 17948.050	18.30	42.29	54.28	45.08	51.39	74.00	-22.61	Peak 0.00

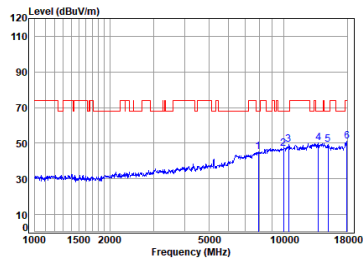
11n_20M_TX_CH_52_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5260 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7943.838	11.55	37.30	55.93	40.95	33.87	-----	-----	Average 0.00
2 9952.717	12.91	38.71	53.65	37.83	35.80	-----	-----	Average 0.00
3 11140.310	14.70	39.30	53.46	36.50	37.12	54.00	-16.88	Average 0.00
4 14533.910	16.79	40.20	54.10	35.44	38.33	-----	-----	Average 0.00
5 15622.990	17.19	38.75	53.85	34.45	36.54	54.00	-17.46	Average 0.00
6 pp18000.000	18.35	42.60	54.30	32.93	39.58	54.00	-14.42	Average 0.00

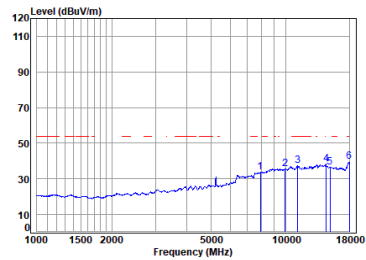
11n_20M_TX_CH_52_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5260 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	52.27	45.17	68.20	-23.03	Peak 0.00
2 9981.525	12.97	38.83	53.62	48.83	47.01	68.20	-21.19	Peak 0.00
3 10404.230	13.64	39.20	53.55	49.74	49.11	68.20	-19.09	Peak 0.00
4 pp13797.090	15.97	40.30	54.04	48.00	50.23	68.20	-17.97	Peak 0.00
5 15090.400	16.70	39.41	54.06	47.36	49.41	68.20	-18.79	Peak 0.00
6 17948.050	18.30	42.29	54.28	44.57	50.88	74.00	-23.12	Peak 0.00

11n_20M_TX_CH_52_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5260 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.08	33.98	-----	-----	Average 0.00
2 9952.717	12.91	38.71	53.65	37.83	35.80	-----	-----	Average 0.00
3 11172.560	14.73	39.45	53.45	36.40	37.21	54.00	-16.79	Average 0.00
4 14533.910	16.79	40.20	54.10	35.25	38.14	-----	-----	Average 0.00
5 15090.400	16.70	39.41	54.06	34.60	36.65	-----	-----	Average 0.00
6 pp18000.000	18.35	42.60	54.30	32.95	39.60	54.00	-14.40	Average 0.00



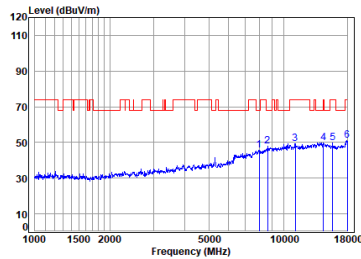
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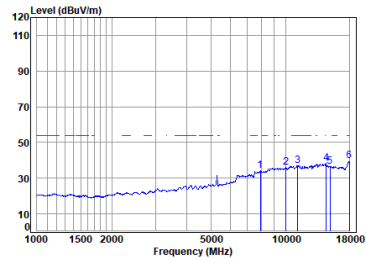
11n_20M_TX_CH_60_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5300 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7989.893	11.56	37.22	55.91	52.94	45.81	68.20	-22.39 Peak	0.00
2 8613.468	11.98	38.05	55.15	53.20	48.08	68.20	-20.12 Peak	0.00
3 11140.318	14.70	39.38	53.46	48.67	49.29	74.00	-24.71 Peak	0.00
4 pp14450.138	16.98	40.30	54.10	46.73	49.91	68.20	-18.29 Peak	0.00
5 15759.050	17.13	38.60	53.79	47.81	49.75	74.00	-24.25 Peak	0.00
6 18000.000	18.35	42.60	54.38	44.43	51.08	74.00	-22.92 Peak	0.00

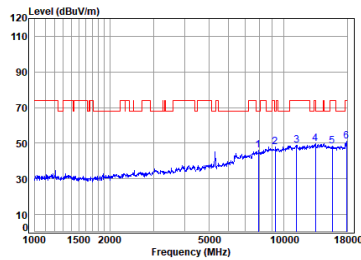
11n_20M_TX_CH_60_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5300 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.09	33.99	-----	Average	0.00
2 10018.420	13.04	38.90	53.60	37.51	35.85	-----	Average	0.00
3 11172.500	14.73	39.45	53.45	36.42	37.15	54.00	-16.85 Average	0.00
4 14533.910	16.79	40.20	54.10	35.33	38.22	-----	Average	0.00
5 15090.400	16.70	39.41	54.06	34.49	36.54	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.38	32.90	39.55	54.00	-14.45 Average	0.00

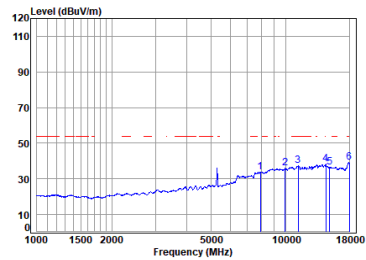
11n_20M_TX_CH_60_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5300 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	53.01	45.91	68.20	-22.29 Peak	0.00
2 9258.909	12.23	38.70	54.40	51.30	47.83	68.20	-20.37 Peak	0.00
3 11269.050	14.68	39.43	53.42	48.25	48.94	74.00	-25.06 Peak	0.00
4 pp13404.010	15.91	40.50	53.92	47.32	49.81	68.20	-18.39 Peak	0.00
5 15668.210	17.24	38.66	53.83	46.20	48.27	74.00	-25.73 Peak	0.00
6 17896.250	18.25	41.97	54.26	45.04	51.00	74.00	-23.00 Peak	0.00

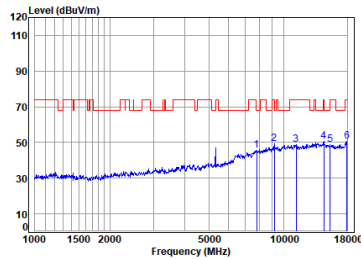
11n_20M_TX_CH_60_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5300 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.08	33.98	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	37.09	35.86	-----	Average	0.00
3 11204.900	14.75	39.50	53.44	36.43	37.24	54.00	-16.76 Average	0.00
4 14491.960	17.07	40.22	54.10	34.92	38.11	54.00	-15.89 Average	0.00
5 15046.850	16.65	39.45	54.08	34.50	36.52	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.38	32.73	39.38	54.00	-14.62 Average	0.00

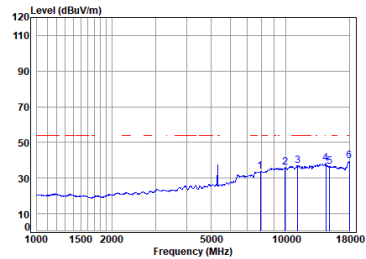
11n_20M_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5320 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7784.729	11.33	37.00	56.02	53.21	45.52	68.20	-22.68	Peak 0.00
2 9178.972	12.28	38.58	54.49	52.74	49.11	74.00	-24.89	Peak 0.00
3 11204.908	14.75	39.50	53.44	47.79	48.60	74.00	-25.40	Peak 0.00
4 14491.960	17.87	40.22	54.10	47.26	50.45	74.00	-23.55	Peak 0.00
5 15354.398	16.84	39.09	53.96	46.98	48.95	74.00	-25.05	Peak 0.00
6 17948.058	18.30	42.29	54.28	44.38	50.69	74.00	-23.31	Peak 0.00

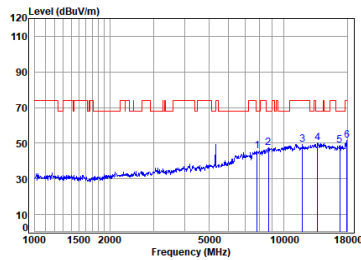
11n_20M_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5320 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.09	33.99	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	37.85	35.82	-----	Average	0.00
3 11172.500	14.73	39.45	53.45	36.45	37.18	54.00	-16.82	Average 0.00
4 14491.960	17.87	40.22	54.10	34.98	38.17	54.00	-15.83	Average 0.00
5 15046.850	16.65	39.45	54.08	34.55	36.57	-----	Average	0.00
6 18000.000	18.35	42.60	54.30	33.16	39.81	54.00	-14.19	Average 0.00

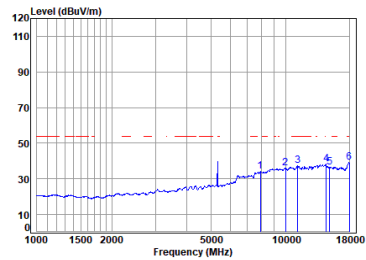
11n_20M_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5320 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7829.860	11.38	37.06	56.00	53.26	45.70	68.20	-22.50	Peak 0.00
2 8688.480	12.08	38.28	55.06	52.19	47.49	68.20	-20.71	Peak 0.00
3 11906.070	14.89	39.02	53.23	48.76	49.44	74.00	-24.56	Peak 0.00
4 13677.970	16.27	40.32	54.01	47.41	49.99	68.20	-18.21	Peak 0.00
5 16793.680	17.47	38.59	53.86	46.52	48.72	68.20	-19.48	Peak 0.00
6 17948.058	18.30	42.29	54.28	45.03	51.34	74.00	-22.66	Peak 0.00

11n_20M_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5320 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.13	34.03	-----	Average	0.00
2 9981.525	12.97	38.83	53.62	37.76	35.94	-----	Average	0.00
3 11172.500	14.73	39.45	53.45	36.51	37.24	54.00	-16.76	Average 0.00
4 14533.910	16.79	40.20	54.10	35.43	38.32	-----	Average	0.00
5 15046.850	16.65	39.45	54.08	34.59	36.61	-----	Average	0.00
6 18000.000	18.35	42.60	54.30	32.75	39.40	54.00	-14.60	Average 0.00



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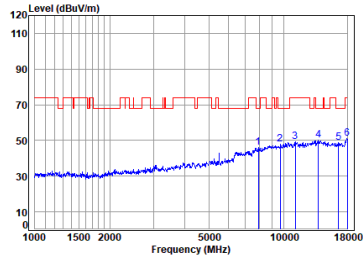
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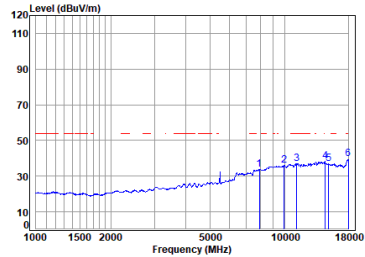
11n_20M_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7898.049	11.54	37.29	55.96	53.15	46.02	68.20	-22.18 Peak	0.00
2 9997.151	12.69	38.51	53.92	50.81	48.09	68.20	-20.11 Peak	0.00
3 11140.318	14.70	39.38	53.46	48.54	49.16	74.00	-24.84 Peak	0.00
4 pp13797.090	15.97	40.30	54.04	47.94	50.17	68.20	-18.03 Peak	0.00
5 16600.640	17.65	38.40	53.82	46.74	48.97	68.20	-19.23 Peak	0.00
6 18000.000	18.35	42.60	54.30	44.30	50.95	74.00	-23.05 Peak	0.00

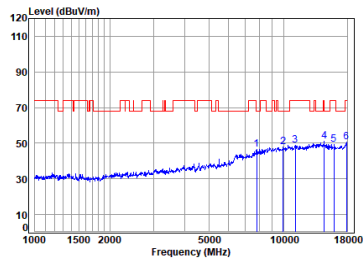
11n_20M_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.06	33.96	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	37.96	35.93	-----	Average	0.00
3 11172.500	14.73	39.45	53.45	36.42	37.15	54.00	-16.85 Average	0.00
4 14533.910	16.79	40.20	54.10	35.37	38.26	-----	Average	0.00
5 15046.850	16.65	39.45	54.00	34.82	36.84	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	32.83	39.48	54.00	-14.52 Average	0.00

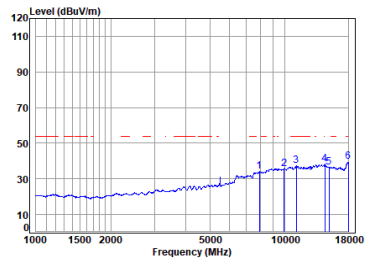
11n_20M_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7784.729	11.33	37.00	56.02	54.12	46.43	68.20	-21.77 Peak	0.00
2 9952.717	12.91	38.71	53.65	50.04	48.01	68.20	-20.19 Peak	0.00
3 11140.318	14.70	39.38	53.46	48.01	48.63	74.00	-25.37 Peak	0.00
4 pp14533.910	16.79	40.20	54.10	48.18	51.07	68.20	-17.13 Peak	0.00
5 15942.300	17.22	38.32	53.72	47.59	49.41	74.00	-24.59 Peak	0.00
6 17896.250	18.25	41.97	54.26	44.56	50.52	74.00	-23.48 Peak	0.00

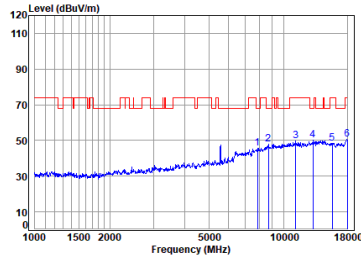
11n_20M_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.10	34.00	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	37.83	35.80	-----	Average	0.00
3 11140.318	14.70	39.38	53.46	36.61	37.23	54.00	-16.77 Average	0.00
4 14491.960	17.07	40.22	54.10	34.99	38.18	54.00	-15.82 Average	0.00
5 15090.400	16.70	39.41	54.00	34.54	36.59	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	32.92	39.57	54.00	-14.43 Average	0.00

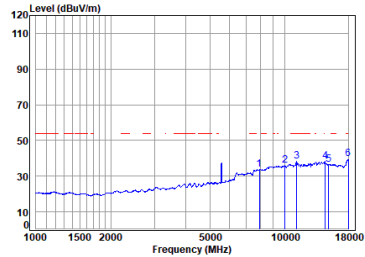
11n_20M_TX_CH_116_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7852.524	11.43	37.11	55.98	52.96	45.52	68.20	-22.68 Peak	0.00
2 8688.488	12.08	38.28	55.06	52.56	47.86	68.20	-20.34 Peak	0.00
3 11172.508	14.73	39.45	53.45	49.13	49.06	74.00	-24.14 Peak	0.00
4 pp13097.620	15.58	40.10	53.83	48.33	50.18	68.20	-18.02 Peak	0.00
5 15668.218	17.24	38.66	53.83	46.43	48.50	74.00	-25.50 Peak	0.00
6 18000.000	18.35	42.60	54.30	44.17	50.82	74.00	-23.18 Peak	0.00

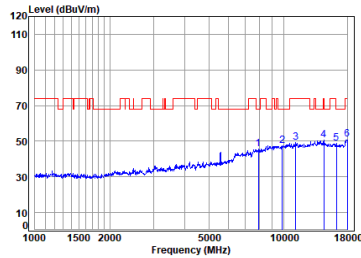
11n_20M_TX_CH_116_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7898.049	11.54	37.29	55.96	41.09	33.96	-----	Average	0.00
2 10018.420	13.04	38.90	53.60	37.57	35.91	-----	Average	0.00
3 11172.508	14.73	39.45	53.45	37.54	38.27	54.00	-15.73 Average	0.00
4 14533.910	16.79	40.20	54.10	35.53	38.42	-----	Average	0.00
5 15846.850	16.65	39.45	54.08	34.60	36.62	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	32.92	39.57	54.00	-14.43 Average	0.00

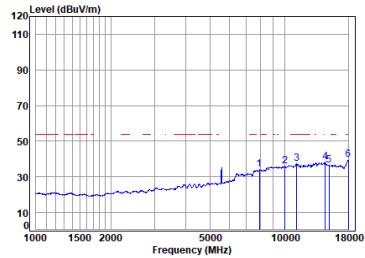
11n_20M_TX_CH_116_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	52.52	45.42	68.20	-22.78 Peak	0.00
2 9866.789	12.90	38.53	53.74	49.85	47.54	68.20	-20.66 Peak	0.00
3 11172.508	14.73	39.45	53.45	48.44	49.17	74.00	-24.83 Peak	0.00
4 14491.968	17.07	40.22	54.10	47.39	50.58	74.00	-23.42 Peak	0.00
5 pp16268.140	17.21	37.97	53.75	47.52	48.95	68.20	-19.25 Peak	0.00
6 18000.000	18.35	42.60	54.30	44.23	50.88	74.00	-23.12 Peak	0.00

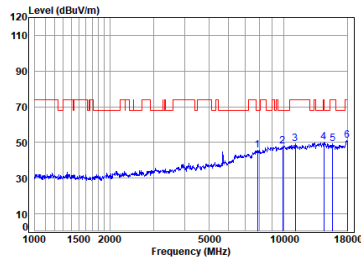
11n_20M_TX_CH_116_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.17	34.07	-----	Average	0.00
2 10018.420	13.04	38.90	53.60	37.50	35.84	-----	Average	0.00
3 11172.508	14.73	39.45	53.45	36.59	37.32	54.00	-16.68 Average	0.00
4 14533.910	16.79	40.20	54.10	35.26	38.15	-----	Average	0.00
5 15090.400	16.70	39.41	54.06	34.55	36.60	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	32.94	39.59	54.00	-14.41 Average	0.00

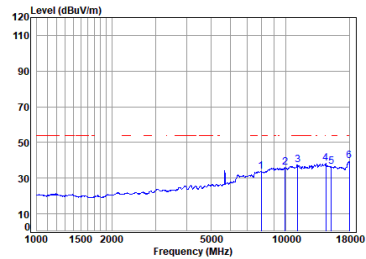
11n_20M_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5700 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7852.524	11.43	37.11	55.98	53.06	45.62	68.20	-22.58	Peak 0.00
2 pp 9923.991	12.85	38.65	53.68	50.02	47.84	68.20	-20.36	Peak 0.00
3 11140.318	14.70	39.38	53.46	48.45	49.07	74.00	-24.93	Peak 0.00
4 14491.960	17.07	40.22	54.10	47.16	50.37	74.00	-23.63	Peak 0.00
5 15713.560	17.24	38.60	53.81	47.17	49.20	74.00	-24.80	Peak 0.00
6 18000.000	18.35	42.60	54.30	44.30	50.95	74.00	-23.05	Peak 0.00

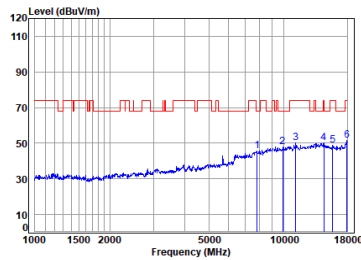
11n_20M_TX_CH_140_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5700 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7989.893	11.56	37.22	55.91	41.09	33.96	-----	-----	Average 0.00
2 9952.717	12.91	38.71	53.65	37.90	35.87	-----	-----	Average 0.00
3 11172.500	14.73	39.45	53.45	36.61	37.34	54.00	-16.66	Average 0.00
4 14491.960	17.07	40.22	54.10	35.10	38.29	54.00	-15.71	Average 0.00
5 15265.800	16.85	39.23	53.99	34.62	36.71	-----	-----	Average 0.00
6 pp18000.000	18.35	42.60	54.30	32.82	39.47	54.00	-14.53	Average 0.00

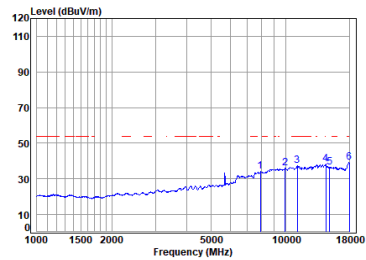
11n_20M_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5700 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7887.262	11.33	37.01	56.01	53.47	45.80	68.20	-22.40	Peak 0.00
2 pp 9923.991	12.85	38.65	53.68	50.24	48.06	68.20	-20.14	Peak 0.00
3 11172.500	14.73	39.45	53.45	49.60	50.33	74.00	-23.67	Peak 0.00
4 14491.960	17.07	40.22	54.10	46.78	49.97	74.00	-24.03	Peak 0.00
5 15713.560	17.24	38.60	53.81	46.92	48.95	74.00	-25.05	Peak 0.00
6 17948.050	18.30	42.29	54.28	45.24	51.55	74.00	-22.45	Peak 0.00

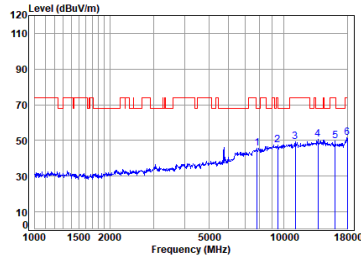
11n_20M_TX_CH_140_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5700 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.14	34.04	-----	-----	Average 0.00
2 9952.717	12.91	38.71	53.65	37.89	35.86	-----	-----	Average 0.00
3 11140.318	14.70	39.38	53.46	36.58	37.20	54.00	-16.80	Average 0.00
4 14491.960	17.07	40.22	54.10	34.97	38.16	54.00	-15.84	Average 0.00
5 15046.850	16.65	39.45	54.08	34.54	36.56	-----	-----	Average 0.00
6 pp18000.000	18.35	42.60	54.30	32.72	39.37	54.00	-14.63	Average 0.00

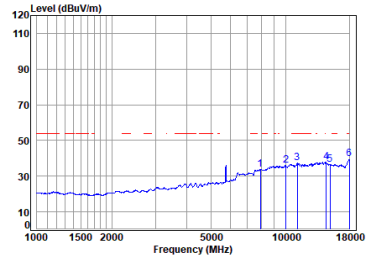
11n_20M_TX_CH_149_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5745 TX RSE

5.86 MLI-F1 loss2 remote										Aux
Cable	Ant	Preamp	Read	Limit	Over	Remark	Factor			
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	
1	7887.262	11.33	37.01	56.01	53.35	45.68	68.20	-22.52	Peak 0.00	
2	9475.497	12.50	38.80	54.16	50.50	47.64	74.00	-26.36	Peak 0.00	
3	11140.310	14.70	39.38	53.46	48.63	49.25	74.00	-24.75	Peak 0.00	
4	pp13717.560	16.33	40.30	54.02	47.89	50.50	68.20	-17.70	Peak 0.00	
5	16127.690	17.11	37.90	53.73	48.38	49.66	74.00	-24.34	Peak 0.00	
6	18000.000	18.35	42.60	54.30	44.82	51.47	74.00	-22.53	Peak 0.00	

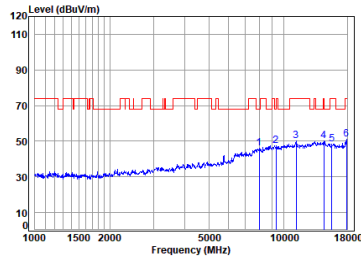
11n_20M_TX_CH_149_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5745 TX RSE

5.8G Wi-Fi 11n2b remote									
Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux		
MHz	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor	
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	7920.911	11.54	37.30	55.94	41.03	33.93	-----	Average	0.00
2	10010.420	13.04	38.90	53.60	37.58	35.92	-----	Average	0.00
3	11140.310	14.70	39.30	53.46	36.59	37.21	54.00	-16.79	Average
4	14533.910	16.79	40.20	54.10	35.17	38.06	-----	Average	0.00
5	15090.400	16.70	39.41	54.06	34.53	36.58	-----	Average	0.00
6	pp18000.000	18.35	42.60	54.30	32.83	39.48	54.00	-14.52	Average

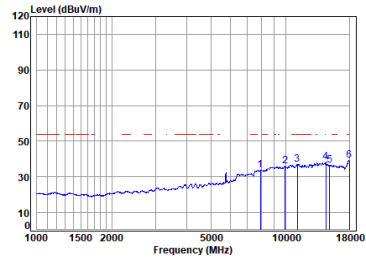
11n_20M_TX_CH_149_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5745 TX RSE

5.86 WLF-11n2n8 remote				Read	Limit	Over	Aux	
Freq	Cable	Ant	Preamp	Level	Line	Limit	Remark	Factor
MHz	Loss	Factor	Factor	dBuV	dBuV/m	dBuV/m	dB	dB
1	pp 7966.832	11.55	37.27	55.92	52.98	45.88	68.20 -22.32 Peak	0.00
2	9312.588	12.19	38.70	54.34	50.96	47.51	74.00 -26.49 Peak	0.00
3	11204.900	14.75	39.50	53.44	49.59	50.40	74.00 -23.60 Peak	0.00
4	14491.960	17.07	40.22	54.10	47.01	50.20	74.00 -23.80 Peak	0.00
5	15622.990	17.19	38.75	53.85	46.48	48.57	74.00 -25.43 Peak	0.00
6	17896.250	18.25	41.97	54.26	45.05	51.01	74.00 -22.99 Peak	0.00

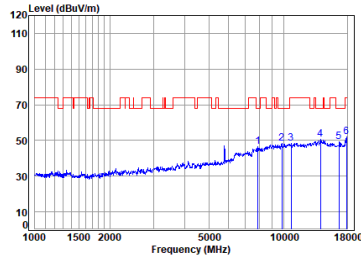
11n_20M_TX_CH_149_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5745 TX RSE

5.86 MHz 1ln2 remote										Aux
Freq	Cable	Ant	Preamp	Read	Limit	Over	Limit	Remark	Aux	
MHz	Loss	Factor	Factor	Level	Line	Limit	Remark	Aux	Factor	
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB	
1	7920.911	11.54	37.30	55.94	41.05	33.95	-----	Average	0.00	
2	9952.717	12.91	38.71	53.65	37.88	35.85	-----	Average	0.00	
3	11140.310	14.70	39.30	53.46	36.50	37.12	54.00	-16.88	Average	0.00
4	14491.960	17.07	40.22	54.10	34.95	38.14	54.00	-15.86	Average	0.00
5	15046.850	16.65	39.45	54.08	34.49	36.51	-----	Average	0.00	
6	pp18000.000	18.35	42.60	54.30	32.79	39.44	54.00	-14.56	Average	0.00

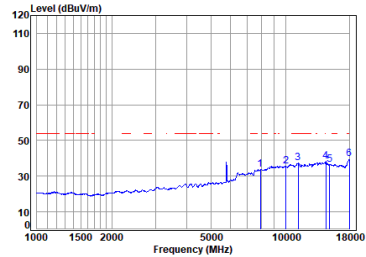
11n_20M_TX_CH_157_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5785 TX RSE
: 5.86 Wi-Fi 11n20 remote

Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1 7875.254	11.48	37.20	55.97	53.76	46.47	68.20	-21.73	Peak	0.00
2 9838.312	12.98	38.50	53.77	50.50	48.21	68.20	-19.99	Peak	0.00
3 10698.518	14.03	39.30	53.53	48.77	48.57	74.00	-25.43	Peak	0.00
4 pp14038.450	16.51	40.52	54.10	47.57	50.50	68.20	-17.70	Peak	0.00
5 16696.880	17.59	38.50	53.84	46.97	49.22	68.20	-18.98	Peak	0.00
6 17896.258	18.25	41.97	54.26	45.97	51.93	74.00	-22.07	Peak	0.00

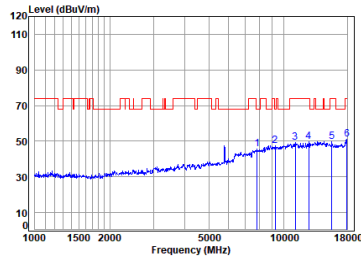
11n_20M_TX_CH_157_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5785 TX RSE
: 5.86 Wi-Fi 11n20 remote

Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1 7920.911	11.54	37.30	55.94	40.96	33.86	-----	-----	Average	0.00
2 10010.420	13.04	38.90	53.60	37.47	35.81	-----	-----	Average	0.00
3 11204.900	14.75	39.50	53.44	36.39	37.20	54.00	-16.80	Average	0.00
4 14491.960	17.07	40.22	54.10	35.00	38.27	54.00	-15.73	Average	0.00
5 15046.850	16.65	39.45	54.00	34.48	36.50	-----	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	32.90	39.55	54.00	-14.45	Average	0.00

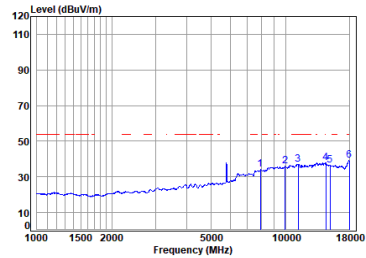
11n_20M_TX_CH_157_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5785 TX RSE
: 5.86 Wi-Fi 11n20 remote

Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1 7887.262	11.33	37.01	56.01	53.08	45.41	68.20	-22.79	Peak	0.00
2 pp 9258.909	12.23	38.70	54.40	51.06	47.59	68.20	-20.61	Peak	0.00
3 11140.310	14.70	39.30	53.46	48.48	49.10	74.00	-24.90	Peak	0.00
4 12614.610	14.98	39.70	53.57	48.80	49.91	74.00	-24.09	Peak	0.00
5 15622.990	17.19	38.75	53.85	47.75	49.84	74.00	-24.16	Peak	0.00
6 17948.050	18.30	42.29	54.28	45.01	51.32	74.00	-22.68	Peak	0.00

11n_20M_TX_CH_157_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5785 TX RSE
: 5.86 Wi-Fi 11n20 remote

Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1 7920.911	11.54	37.30	55.94	41.13	34.03	-----	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	38.00	35.97	-----	-----	Average	0.00
3 11204.900	14.75	39.50	53.44	36.30	37.11	54.00	-16.89	Average	0.00
4 14491.960	17.07	40.22	54.10	34.82	38.01	54.00	-15.99	Average	0.00
5 15090.400	16.70	39.41	54.00	34.33	36.38	-----	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	32.58	39.23	54.00	-14.77	Average	0.00



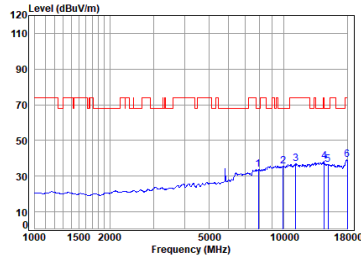
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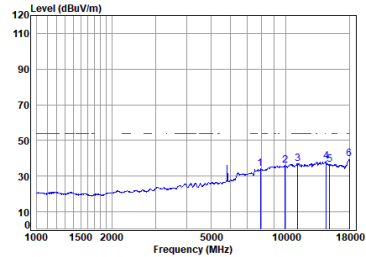
11n_20M_TX_CH_165_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5825 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7898.049	11.54	37.29	55.96	41.01	33.88	68.20	-34.32	Peak 0.00
2 9952.717	12.91	38.71	53.65	37.84	35.81	68.20	-32.39	Peak 0.00
3 11172.508	14.73	39.45	53.45	36.24	36.97	74.00	-37.03	Peak 0.00
4 pp14533.910	16.79	40.20	54.10	35.24	38.13	68.20	-30.07	Peak 0.00
5 15090.400	16.70	39.41	54.06	34.35	36.40	68.20	-31.80	Peak 0.00
6 18000.000	18.35	42.60	54.30	32.74	39.39	74.00	-34.61	Peak 0.00

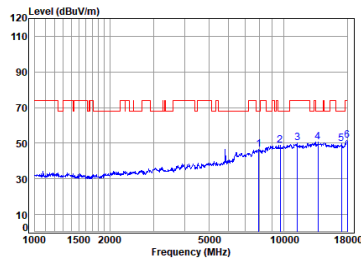
11n_20M_TX_CH_165_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5825 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7920.911	11.54	37.30	55.94	41.14	34.04	-----	-----	Average 0.00
2 9952.717	12.91	38.71	53.65	37.91	35.88	-----	-----	Average 0.00
3 11172.508	14.73	39.45	53.45	36.40	37.13	54.00	-16.87	Average 0.00
4 14533.910	16.79	40.20	54.10	35.36	38.25	-----	-----	Average 0.00
5 15046.850	16.65	39.45	54.08	34.53	36.55	-----	-----	Average 0.00
6 pp18000.000	18.35	42.60	54.30	32.90	39.55	54.00	-14.45	Average 0.00

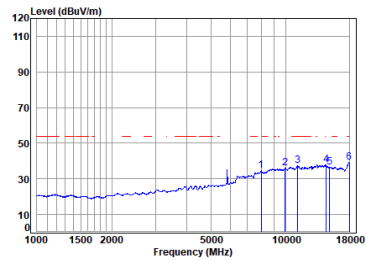
11n_20M_TX_CH_165_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5825 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7943.838	11.55	37.30	55.93	53.55	46.47	68.20	-21.73	Peak 0.00
2 9697.151	12.69	38.51	53.92	51.41	48.69	68.20	-19.51	Peak 0.00
3 11335.190	14.49	39.36	53.40	49.93	50.38	74.00	-23.62	Peak 0.00
4 pp13757.270	16.15	40.30	54.03	48.18	50.60	68.20	-17.60	Peak 0.00
5 17087.460	18.42	38.89	53.94	46.31	49.68	68.20	-18.52	Peak 0.00
6 18000.000	18.35	42.60	54.30	45.00	51.65	74.00	-22.35	Peak 0.00

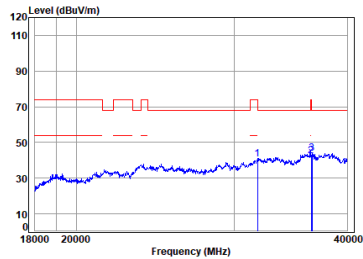
11n_20M_TX_CH_165_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5825 TX RSE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 7966.832	11.55	37.27	55.92	41.65	34.55	-----	-----	Average 0.00
2 9952.717	12.91	38.71	53.65	37.99	35.96	-----	-----	Average 0.00
3 11172.508	14.73	39.45	53.45	36.50	37.23	54.00	-16.77	Average 0.00
4 14533.910	16.79	40.20	54.10	35.21	38.10	-----	-----	Average 0.00
5 15046.850	16.65	39.45	54.08	34.54	36.56	-----	-----	Average 0.00
6 pp18000.000	18.35	42.60	54.30	32.75	39.40	54.00	-14.60	Average 0.00

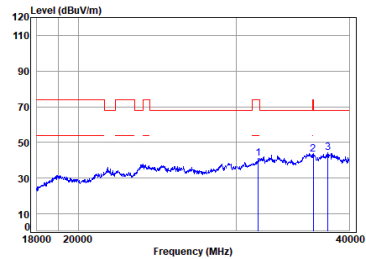
11n_20M_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5180 TX RSE
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1	31807.680	7.87	40.82	51.43	52.78	40.50	68.20	-27.70	Peak	-9.54
2	36490.470	7.91	42.10	49.59	51.77	42.65	74.00	-31.35	Peak	-9.54
3	36548.798	7.84	42.06	49.63	53.23	43.96	68.20	-24.24	Peak	-9.54

11n_20M_TX_CH_36_Vertical



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5180 TX RSE
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1	31706.250	7.83	40.77	51.55	53.65	41.16	74.00	-32.84	Peak	-9.54
2	36490.470	7.91	42.10	49.59	52.31	43.19	74.00	-30.81	Peak	-9.54
3	37685.970	7.81	41.91	50.13	54.16	44.21	68.20	-23.99	Peak	-9.54



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7.3 Radiated Emissions which fall in the restricted bands

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

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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7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

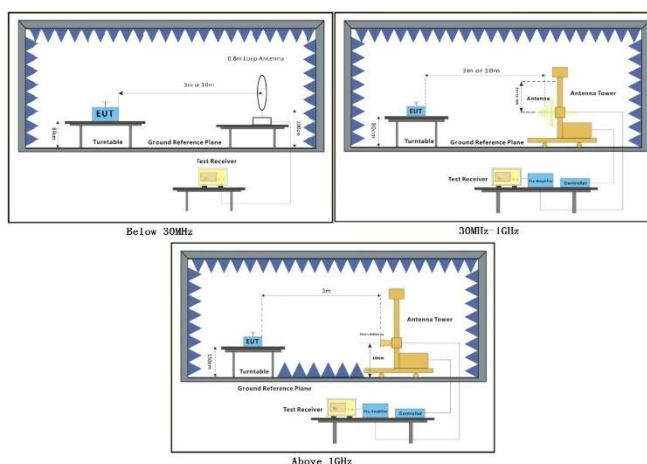
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- a. For 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.

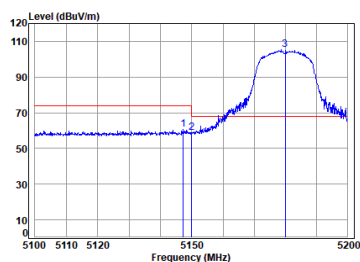


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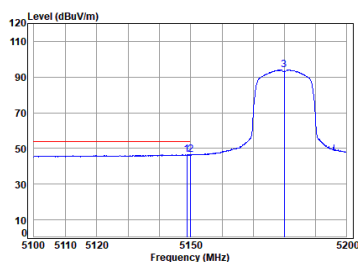
11n_HT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5180 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5147.258	10.13	33.30	29.95	47.31	60.79	74.00	-13.21	Peak	0.00
2	5149.900	10.14	33.30	29.95	45.42	58.91	74.00	-15.09	Peak	0.00
3 pp	5180.000	10.25	33.30	29.94	91.69	105.30	68.20	37.10	Peak	0.00

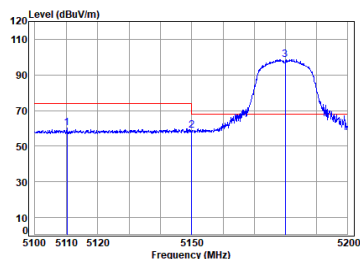
11n_HT(20M)_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5180 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5148.757	10.14	33.30	29.95	33.00	46.49	54.00	-7.51	Average	0.00
2	5149.900	10.14	33.30	29.95	32.96	46.45	54.00	-7.55	Average	0.00
3	5180.000	10.25	33.30	29.94	80.37	93.98	-----	-----	Average	0.00

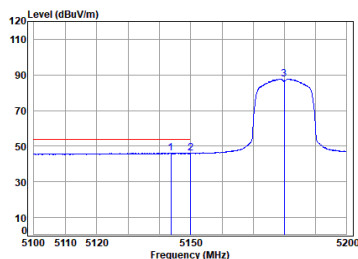
11n_HT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5180 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5110.210	9.99	33.30	29.96	47.06	60.39	74.00	-13.61	Peak	0.00
2	5149.900	10.14	33.30	29.95	45.45	58.94	74.00	-15.06	Peak	0.00
3 pp	5180.000	10.25	33.30	29.94	85.07	98.68	68.20	30.48	Peak	0.00

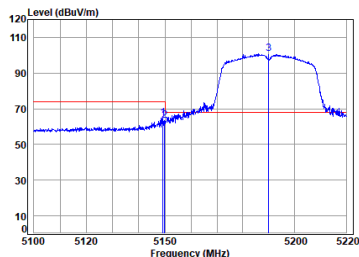
11n_HT(20M)_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5180 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5143.661	10.12	33.30	29.95	32.78	46.25	54.00	-7.75	Average	0.00
2	5149.900	10.14	33.30	29.95	32.56	46.05	54.00	-7.95	Average	0.00
3	5180.000	10.25	33.30	29.94	74.14	87.75	-----	-----	Average	0.00

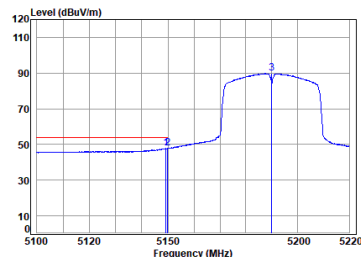
11n_HT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5190 Band edge

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 5149.342	10.14	33.30	29.95	51.16	64.65	74.00	-9.35 Peak	0.00
2 5149.980	10.14	33.30	29.95	50.09	63.58	74.00	-10.42 Peak	0.00
3 pp 5190.000	10.29	33.30	29.94	87.10	100.75	68.20	32.55 Peak	0.00

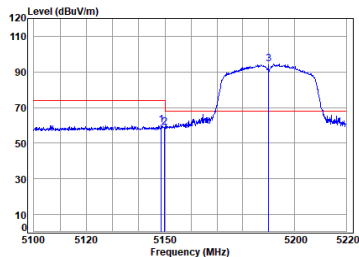
11n_HT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5190 Band edge

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 pp 5149.222	10.14	33.30	29.95	34.31	47.80	54.00	-6.20 Average	0.00
2 5149.980	10.14	33.30	29.95	34.24	47.73	54.00	-6.27 Average	0.00
3 5190.000	10.29	33.30	29.94	76.04	89.69	-----	----- Average	0.00

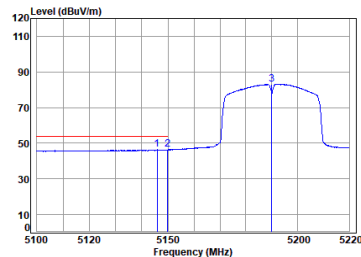
11n_HT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5190 Band edge

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 5148.623	10.14	33.30	29.95	46.54	60.03	74.00	-13.97 Peak	0.00
2 5149.980	10.14	33.30	29.95	45.40	58.89	74.00	-15.11 Peak	0.00
3 pp 5190.000	10.29	33.30	29.94	80.82	94.47	68.20	26.27 Peak	0.00

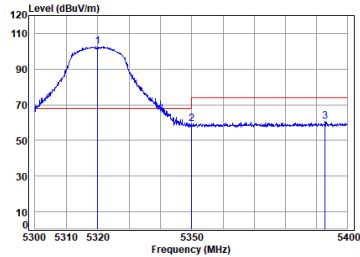
11n_HT(40M)_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5190 Band edge

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 pp 5145.870	10.13	33.30	29.95	32.94	46.42	54.00	-7.58 Average	0.00
2 5149.980	10.14	33.30	29.95	32.83	46.32	54.00	-7.68 Average	0.00
3 5190.000	10.29	33.30	29.94	69.50	83.15	-----	----- Average	0.00

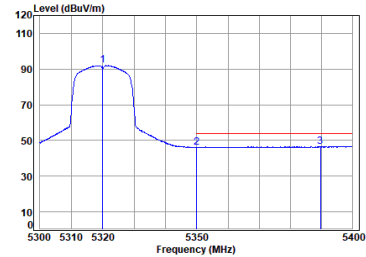
11n_HT(20M)_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5320 Band edge

Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Factor
1 pp 5320.000	10.35	33.06	29.90	89.27	102.78	68.20	34.58	Peak	0.00
2 5350.020	10.45	33.00	29.89	45.69	59.25	74.00	-14.75	Peak	0.00
3 5392.838	10.00	33.09	29.88	46.77	60.58	74.00	-13.42	Peak	0.00

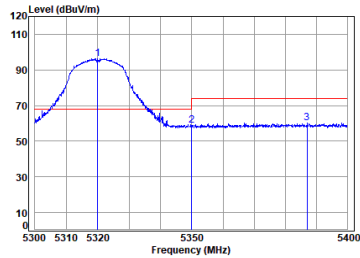
11n_HT(20M)_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5320 Band edge

Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Factor
1 5320.000	10.35	33.06	29.90	78.52	92.03	-----	-----	Average	0.00
2 5350.020	10.45	33.00	29.89	32.67	46.23	54.00	-7.77	Average	0.00
3 pp 5389.714	10.59	33.08	29.88	32.89	46.68	54.00	-7.32	Average	0.00

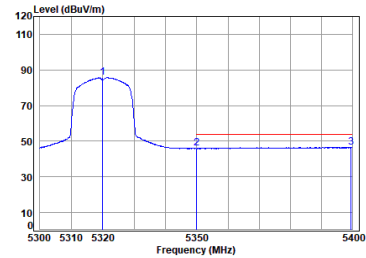
11n_HT(20M)_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5320 Band edge

Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Factor
1 pp 5320.000	10.35	33.06	29.90	82.99	96.50	68.20	28.30	Peak	0.00
2 5350.020	10.45	33.00	29.89	45.49	59.05	74.00	-14.95	Peak	0.00
3 5387.095	10.58	33.07	29.88	46.34	60.11	74.00	-13.89	Peak	0.00

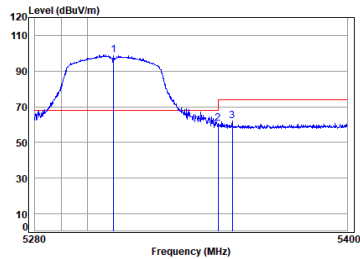
11n_HT(20M)_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5320 Band edge

Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Factor
1 5320.000	10.35	33.06	29.90	72.25	85.76	-----	-----	Average	0.00
2 5350.020	10.45	33.00	29.89	32.35	45.91	54.00	-8.09	Average	0.00
3 pp 5399.697	10.62	33.10	29.87	32.74	46.59	54.00	-7.41	Average	0.00

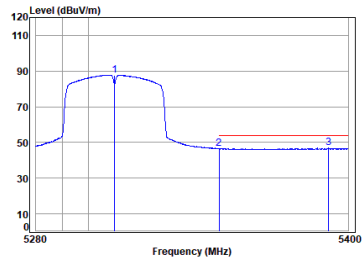
11n_HT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5310 Band edge
: 5G Wi-Fi 11n40 remote

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 pp 5310.000	10.31	33.08	29.90	85.56	99.05	68.20	30.85	Peak	0.00	
2 5350.020	10.45	33.00	29.89	47.06	60.62	74.00	-13.38	Peak	0.00	
3 5355.526	10.47	33.01	29.89	48.30	61.89	74.00	-12.11	Peak	0.00	

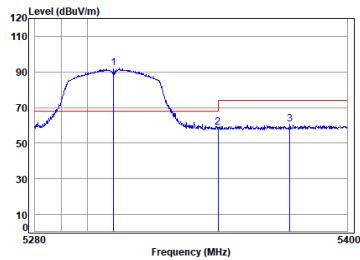
11n_HT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5310 Band edge
: 5G Wi-Fi 11n40 remote

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 5310.000	10.31	33.08	29.90	74.31	87.80	-----	-----	Average	0.00	
2 5350.020	10.45	33.00	29.89	33.09	46.65	54.00	-7.35	Average	0.00	
3 pp 5392.481	10.59	33.09	29.88	33.01	46.81	54.00	-7.19	Average	0.00	

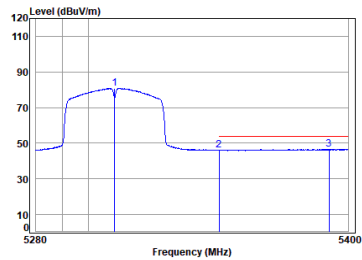
11n_HT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5310 Band edge
: 5G Wi-Fi 11n40 remote

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 pp 5310.000	10.31	33.08	29.90	78.71	92.20	68.20	24.00	Peak	0.00	
2 5350.020	10.45	33.00	29.89	45.28	58.84	74.00	-15.16	Peak	0.00	
3 5377.838	10.55	33.06	29.88	47.10	60.83	74.00	-13.17	Peak	0.00	

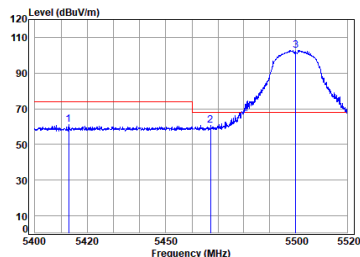
11n_HT(40M)_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5310 Band edge
: 5G Wi-Fi 11n40 remote

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 5310.000	10.31	33.08	29.90	67.30	80.79	-----	-----	Average	0.00	
2 5350.020	10.45	33.00	29.89	32.53	46.09	54.00	-7.91	Average	0.00	
3 pp 5392.603	10.60	33.09	29.88	32.85	46.66	54.00	-7.34	Average	0.00	

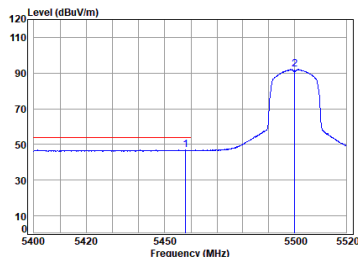
11n_HT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 Band edge

		Cable	Ant	Preamp	Read	Limit	Over	Aux
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
MHz	dB			dBuV	dBuV/m	dB		dB
1	5412.833	10.61	33.10	29.87	47.08	60.92	74.00 -13.08 Peak	0.00
2	5467.235	10.59	33.10	29.85	46.79	60.63	68.20 -7.57 Peak	0.00
3	5500.000	10.58	33.10	29.84	88.88	102.72	68.20 34.52 Peak	0.00

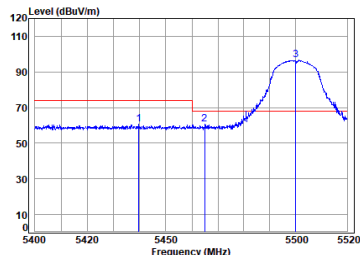
11n_HT(20M)_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 Band edge

		Cable	Ant	Preamp	Read	Limit	Over	Aux
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
MHz	dB			dBuV	dBuV/m	dB		dB
1	5457.991	10.60	33.10	29.86	33.02	46.86	54.00 -7.14 Average	0.00
2	5500.000	10.58	33.10	29.84	78.14	91.98	----- Average	0.00

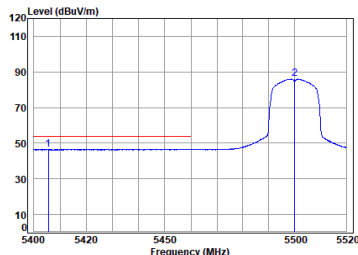
11n_HT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 Band edge

		Cable	Ant	Preamp	Read	Limit	Over	Aux
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
MHz	dB			dBuV	dBuV/m	dB		dB
1	5439.667	10.60	33.10	29.86	46.69	60.53	74.00 -13.47 Peak	0.00
2	5464.953	10.59	33.10	29.85	46.72	60.56	68.20 -7.64 Peak	0.00
3	5500.000	10.58	33.10	29.84	82.91	96.75	68.20 28.55 Peak	0.00

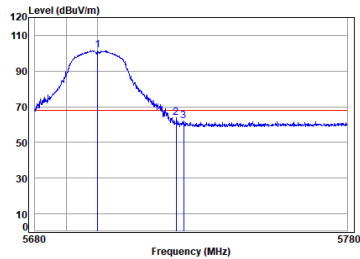
11n_HT(20M)_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 Band edge

		Cable	Ant	Preamp	Read	Limit	Over	Aux
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
MHz	dB			dBuV	dBuV/m	dB		dB
1	5405.581	10.62	33.10	29.87	32.85	46.70	54.00 -7.30 Average	0.00
2	5500.000	10.58	33.10	29.84	72.21	86.05	----- Average	0.00

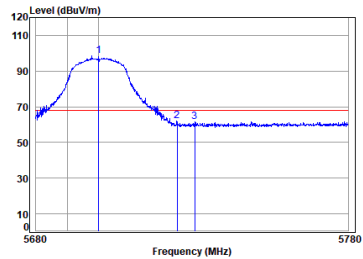
11n_HT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5700 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 5700.000	10.56	33.70	29.78	87.15	101.63	68.20	33.43	Peak	0.00	
2	5725.000	10.68	33.75	29.78	49.24	63.89	68.20	-4.31	Peak	0.00	
3	5727.382	10.69	33.75	29.78	47.53	62.19	68.20	-6.01	Peak	0.00	

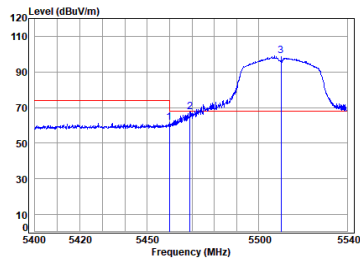
11n_HT(20M)_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5700 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 5700.000	10.56	33.70	29.78	83.88	98.36	68.20	30.16	Peak	0.00	
2	5725.000	10.68	33.75	29.78	47.20	61.85	68.20	-6.35	Peak	0.00	
3	5738.682	10.70	33.76	29.78	46.97	61.65	68.20	-6.55	Peak	0.00	

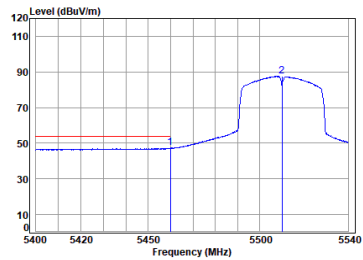
11n_HT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5510 Band edge
: 5G Wi-Fi 11n40 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5459.901	10.60	33.10	29.86	47.63	61.47	74.00	-12.53	Peak	0.00	
2	5469.132	10.59	33.10	29.85	53.74	67.58	68.20	-0.62	Peak	0.00	
3	pp 5510.000	10.56	33.10	29.84	85.15	98.97	68.20	30.77	Peak	0.00	

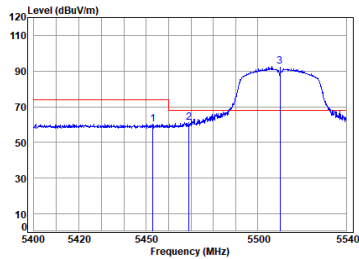
11n_HT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5510 Band edge
: 5G Wi-Fi 11n40 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	pp 5459.901	10.60	33.10	29.86	33.46	47.30	54.00	-6.70	Average	0.00	
2	5510.000	10.56	33.10	29.84	73.72	87.54	68.20	19.34	Average	0.00	

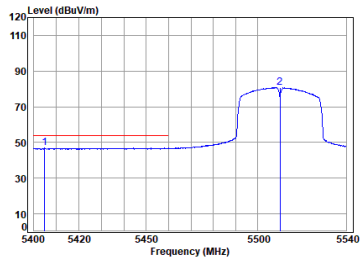
11n_HT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5510 Band edge

	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	5452.918	10.60	33.10	29.86	46.51	60.35	74.00	-13.65	Peak	0.00	
2	5469.132	10.59	33.10	29.85	47.15	60.99	68.20	-7.21	Peak	0.00	
3 pp	5510.000	10.56	33.10	29.84	78.65	92.47	68.20	24.27	Peak	0.00	

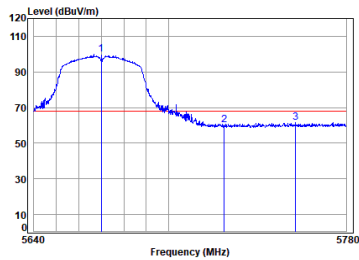
11n_HT(40M)_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5510 Band edge

	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 pp	5404.840	10.62	33.10	29.87	32.97	46.82	54.00	-7.18	Average	0.00	
2	5510.000	10.56	33.10	29.84	66.96	80.78	68.20	12.58	Average	0.00	

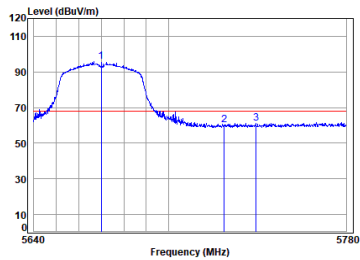
11n_HT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5670 Band edge

	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 pp	5670.000	10.52	33.52	29.79	85.73	99.98	68.20	31.78	Peak	0.00	
2	5725.000	10.68	33.75	29.78	45.42	60.07	68.20	-8.13	Peak	0.00	
3	5757.006	10.82	33.83	29.77	46.61	61.49	68.20	-6.71	Peak	0.00	

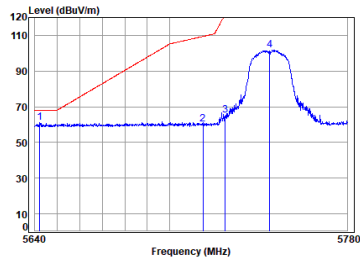
11n_HT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5670 Band edge

	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 pp	5670.000	10.52	33.52	29.79	81.40	95.65	68.20	27.45	Peak	0.00	
2	5725.000	10.68	33.75	29.78	45.50	60.15	68.20	-8.05	Peak	0.00	
3	5739.187	10.74	33.78	29.77	46.62	61.37	68.20	-6.83	Peak	0.00	

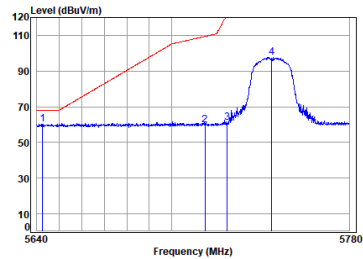
11n_HT(20M)_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5745 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5642.213	10.47	33.40	29.80	47.15	61.22	68.20	-6.98	Peak		0.00
2	5715.000	10.63	33.73	29.78	45.55	60.13	109.40	-49.27	Peak		0.00
3	5725.000	10.68	33.75	29.78	50.55	65.20	122.20	-57.00	Peak		0.00
4	5745.000	10.77	33.79	29.77	87.16	101.95	-----	-----	Peak		0.00

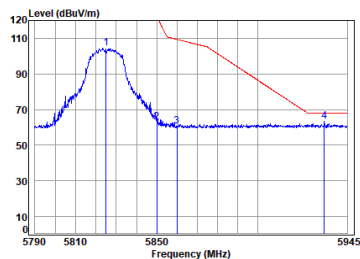
11n_HT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5745 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5642.490	10.47	33.40	29.80	46.35	60.42	68.20	-7.78	Peak		0.00
2	5715.000	10.63	33.73	29.78	45.33	59.91	109.40	-49.49	Peak		0.00
3	5725.000	10.68	33.75	29.78	46.52	61.17	122.20	-61.03	Peak		0.00
4	5745.000	10.77	33.79	29.77	82.79	97.58	-----	-----	Peak		0.00

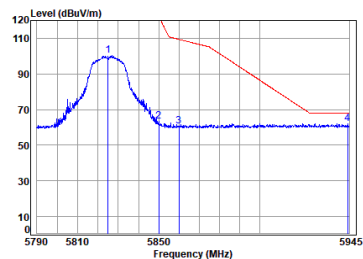
11n_HT(20M)_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5825 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5825.000	10.99	34.10	29.75	88.95	104.29	-----	-----	Peak		0.00
2	5850.000	10.95	34.20	29.74	47.59	63.00	122.20	-59.20	Peak		0.00
3	5860.000	10.94	34.22	29.74	45.45	60.87	109.40	-48.53	Peak		0.00
4	5933.546	10.86	34.23	29.72	47.98	63.35	68.20	-4.85	Peak		0.00

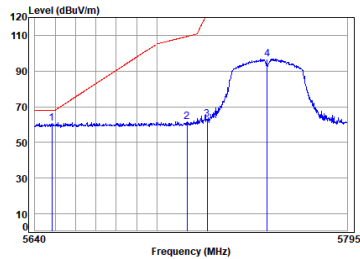
11n_HT(20M)_TX_CH_165_Vertical



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5825 Band edge
: 5G Wi-Fi 11n20 remote

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5825.000	10.99	34.10	29.75	85.20	100.54	-----	-----	Peak		0.00
2	5850.000	10.95	34.20	29.74	47.92	63.33	122.20	-58.87	Peak		0.00
3	5860.000	10.94	34.22	29.74	45.47	60.89	109.40	-48.51	Peak		0.00
4	5944.215	10.85	34.21	29.72	46.57	61.91	68.20	-6.29	Peak		0.00

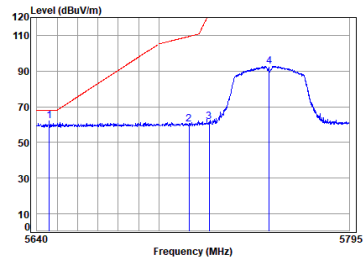
11n_HT(40M)_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5755 Band edge

	Freq	Cable Loss	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
1	5648.263	10.48	33.40	29.80	46.77	60.85	68.20	-7.35	Peak	0.00
2	5715.000	10.63	33.73	29.78	46.84	61.42	109.40	-47.98	Peak	0.00
3	5725.000	10.68	33.75	29.78	48.52	63.17	122.20	-59.03	Peak	0.00
4	5755.000	10.81	33.82	29.77	81.89	96.75	-----	-----	Peak	0.00

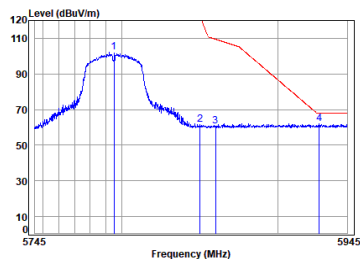
11n_HT(40M)_TX_CH_151_Vertical



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5755 Band edge

	Freq	Cable Loss	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
1	5646.120	10.48	33.40	29.80	47.77	61.85	68.20	-6.35	Peak	0.00
2	5715.000	10.63	33.73	29.78	45.58	60.16	109.40	-49.24	Peak	0.00
3	5725.000	10.68	33.75	29.78	47.07	61.72	122.20	-60.48	Peak	0.00
4	5755.000	10.81	33.82	29.77	77.93	92.79	-----	-----	Peak	0.00

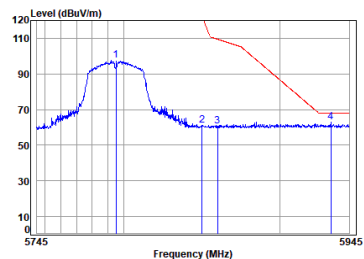
11n_HT(40M)_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5795 Band edge

	Freq	Cable Loss	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
1	5795.000	11.00	33.98	29.76	87.02	102.24	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	46.23	61.64	122.20	-60.56	Peak	0.00
3	5860.000	10.94	34.22	29.74	45.06	60.48	109.40	-48.92	Peak	0.00
4	5926.921	10.87	34.25	29.72	46.55	61.95	68.20	-6.25	Peak	0.00

11n_HT(40M)_TX_CH_159_Vertical



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5795 Band edge

	Freq	Cable Loss	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
1	5795.000	11.00	33.98	29.76	82.27	97.49	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	45.07	61.28	122.20	-60.92	Peak	0.00
3	5860.000	10.94	34.22	29.74	45.48	60.50	109.40	-48.50	Peak	0.00
4	5933.009	10.86	34.23	29.72	47.44	62.81	68.20	-5.39	Peak	0.00

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7.4 Duty Cycle

Test Requirement: ANSI C63.10 (2020) Section 12.2
 Test Method: ANSI C63.10 (2020) Section 12.2
 Test Engineer: Linvo Ding

7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 29.3 °C Humidity: 55.7 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

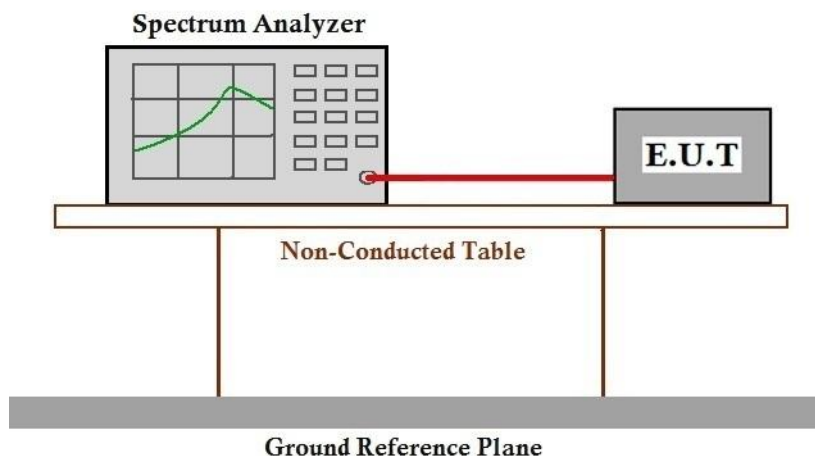


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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.5 99% Bandwidth

Test Requirement ANSI C63.10 (2020) Section 12.5.3

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

Test Engineer: Linvo Ding

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 29.3 °C Humidity: 55.7 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



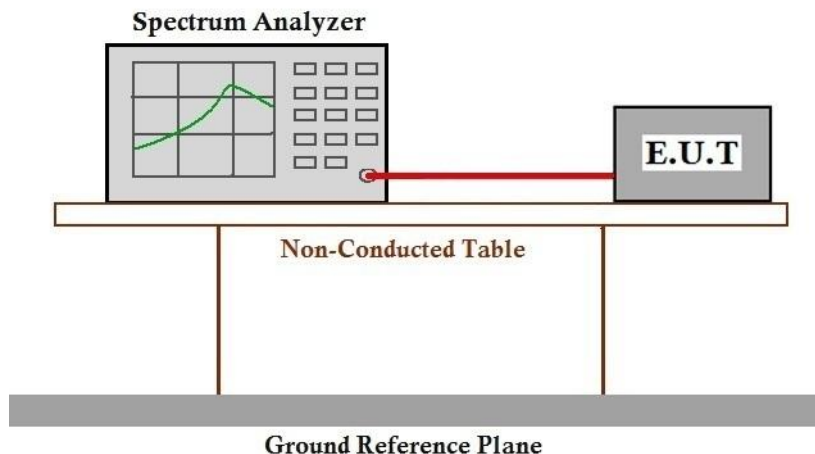
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.6 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10 (2020) Section 12.5.2
 Test Engineer: Linvo Ding

7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 29.3 °C Humidity: 55.7 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

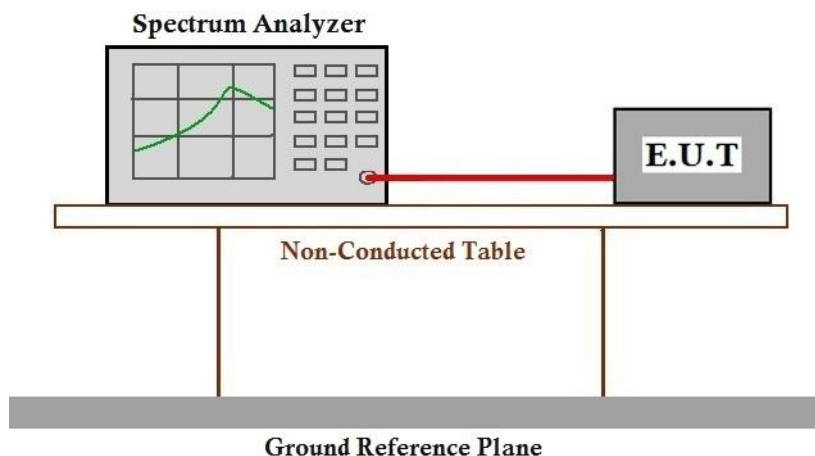
Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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

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

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

Test Engineer: Linvo Ding

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 29.3 °C

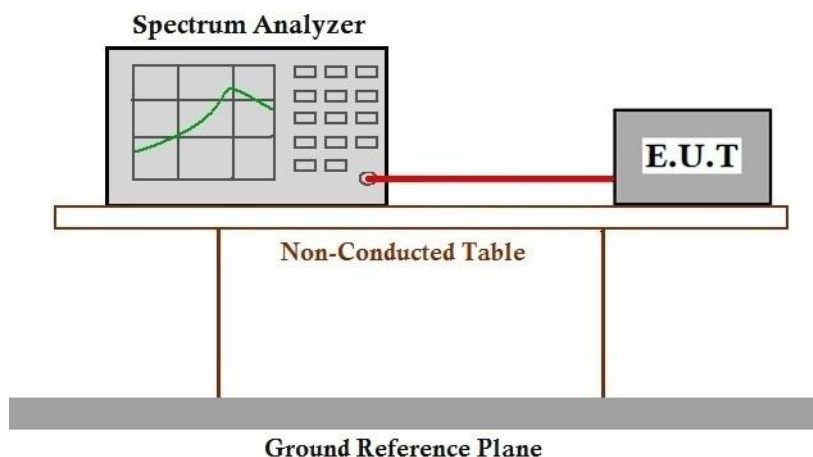
Humidity: 55.7 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Maximum Conducted output power

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

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

Test Engineer: Linvo Ding

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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 29.3 °C

Humidity: 55.7 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

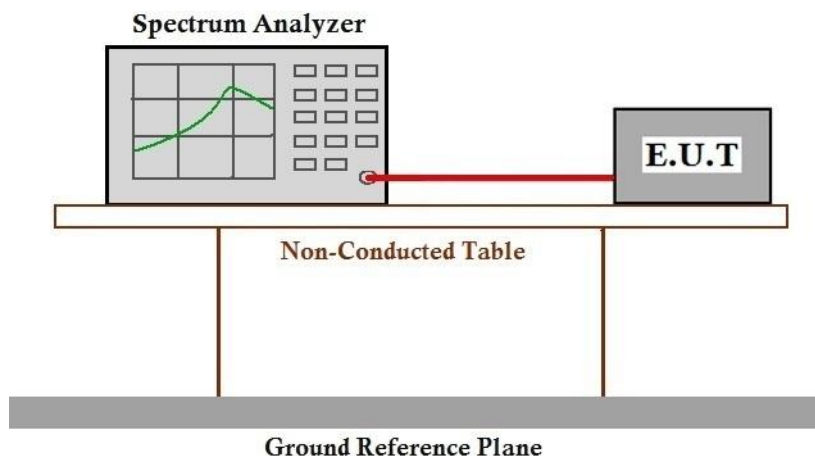


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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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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7.9 Peak Power spectrum density

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

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

Test Engineer: Linvo Ding

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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 29.3 °C Humidity: 55.7 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



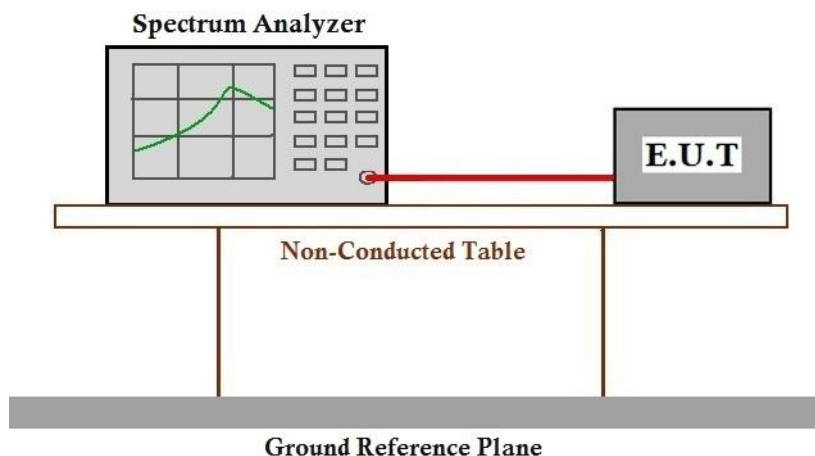
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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

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7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)
 Test Method: ANSI C63.10 (2020) Section 6.8
 Test Engineer: Linvo Ding

7.10.1 E.U.T. Operation

Operating Environment:
 Temperature: 29.3 °C Humidity: 55.7 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3) _Keep the EUT(remote controller) in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

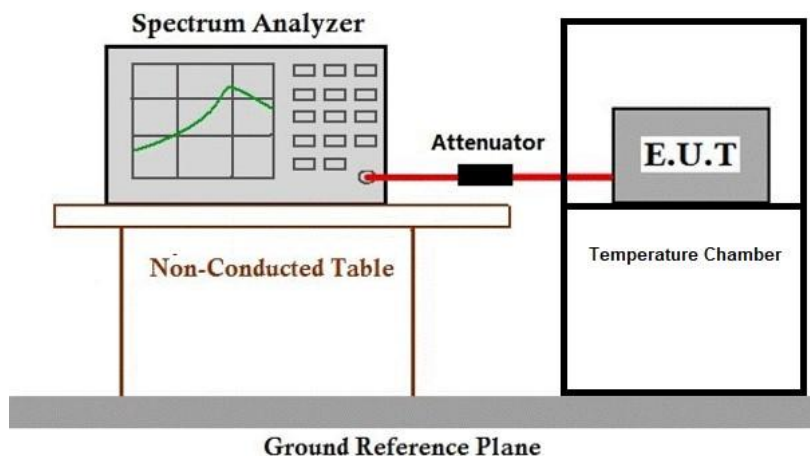


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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2511005026AT(remote controller)

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_ external and internal photos for SZCR2511005026AT(remote controller)



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10 Appendix

1. Duty Cycle

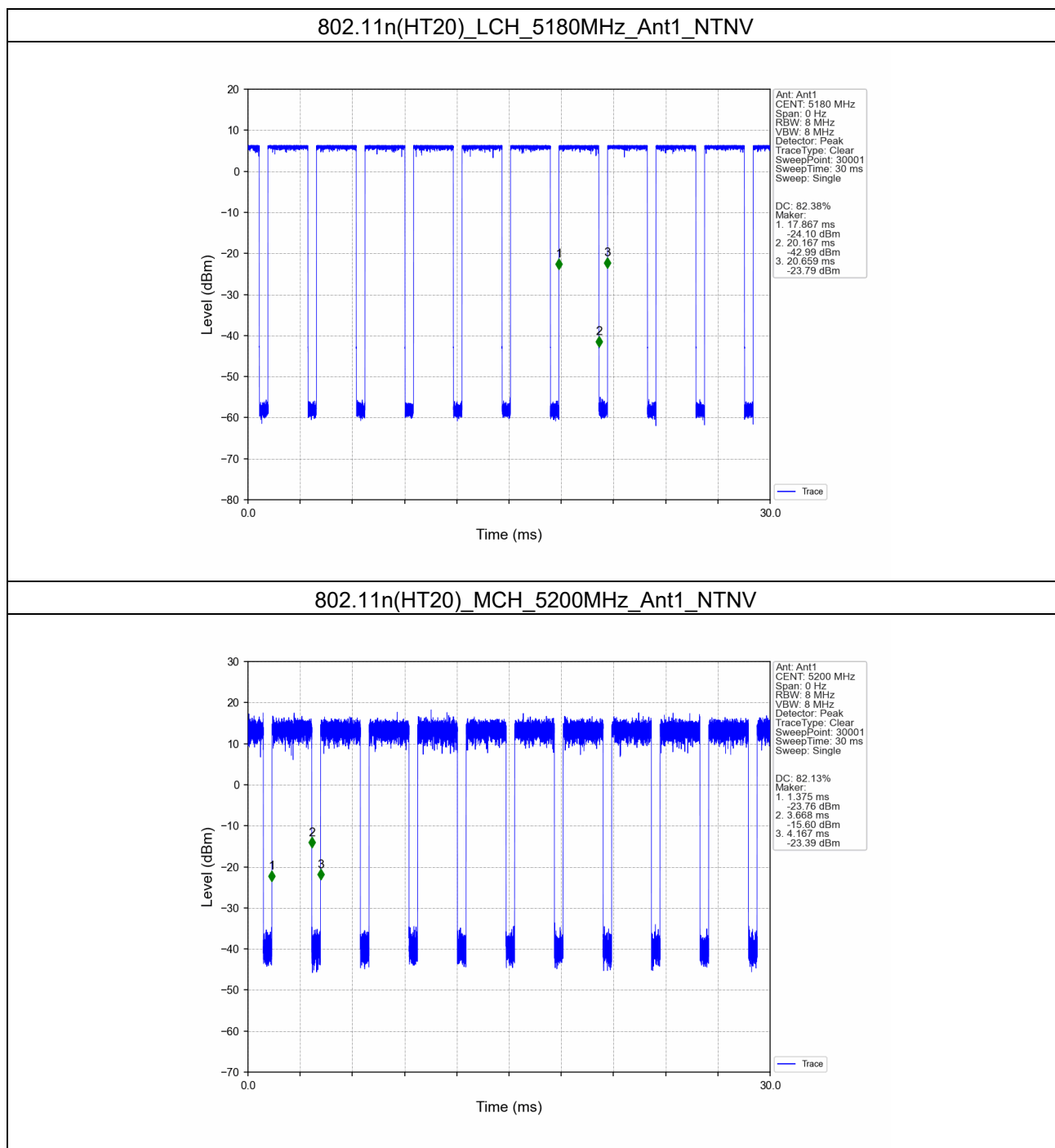
1.1 Test Result

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 (%)
802.11n (HT20)	SISO	5180	2.300	2.792	82.38	0.84	0.30
		5200	2.293	2.792	82.13	0.86	0.27
		5240	2.293	2.792	82.13	0.86	0.27
		5260	2.301	2.792	82.41	0.84	0.27
		5300	2.293	2.792	82.13	0.86	0.27
		5320	2.293	2.793	82.10	0.86	0.30
		5500	2.300	2.792	82.38	0.84	0.30
		5580	2.293	2.792	82.13	0.86	0.27
		5700	2.293	2.792	82.13	0.86	0.27
		5745	2.301	2.793	82.38	0.84	0.30
		5785	2.293	2.792	82.13	0.86	0.27
		5825	2.293	2.792	82.13	0.86	0.27
802.11n (HT40)	SISO	5190	1.126	1.625	69.29	1.59	0.42
		5230	1.127	1.626	69.31	1.59	0.40
		5270	1.126	1.626	69.25	1.60	0.42
		5310	1.126	1.626	69.25	1.60	0.42
		5510	1.127	1.626	69.31	1.59	0.42
		5550	1.127	1.626	69.31	1.59	0.42
		5670	1.126	1.625	69.29	1.59	0.40
		5755	1.127	1.626	69.31	1.59	0.42
		5795	1.126	1.626	69.25	1.60	0.42

1.2 Test Graph

1.2.1 Ant1



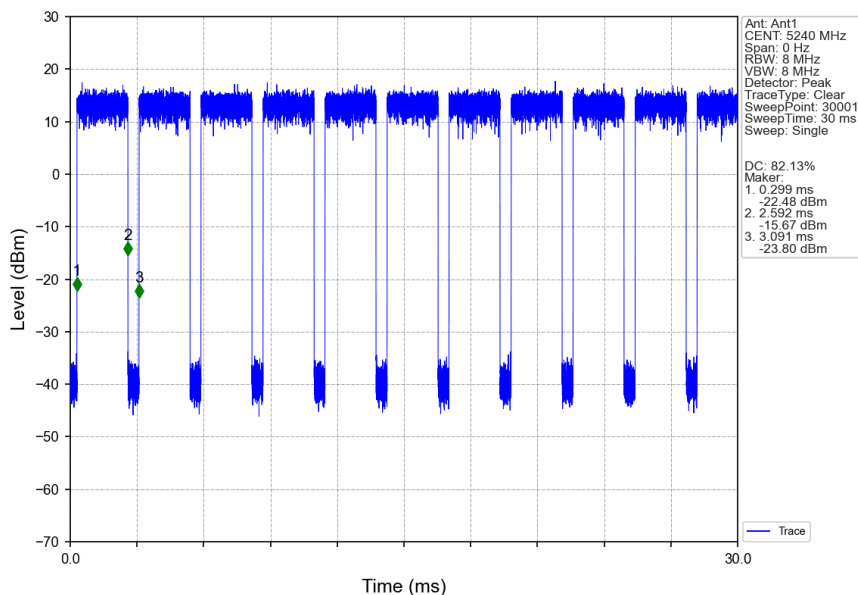
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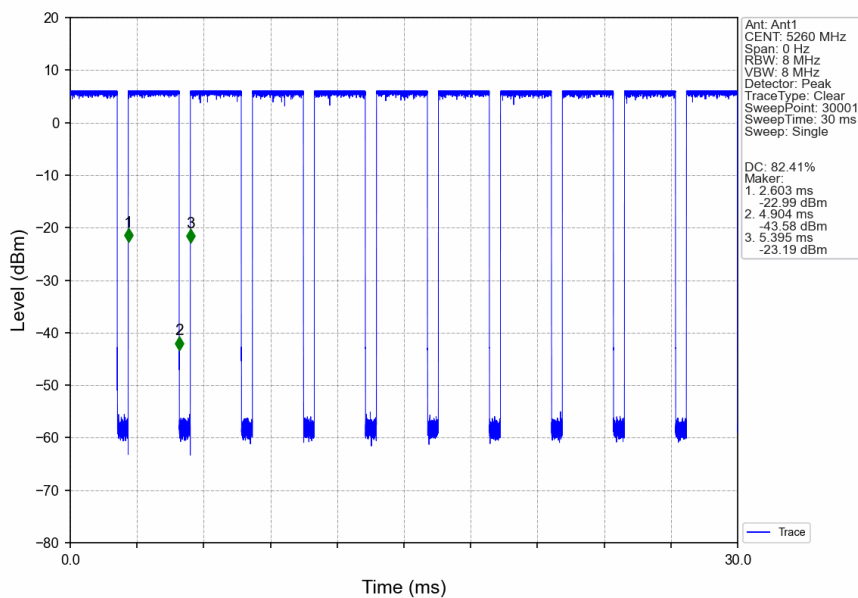
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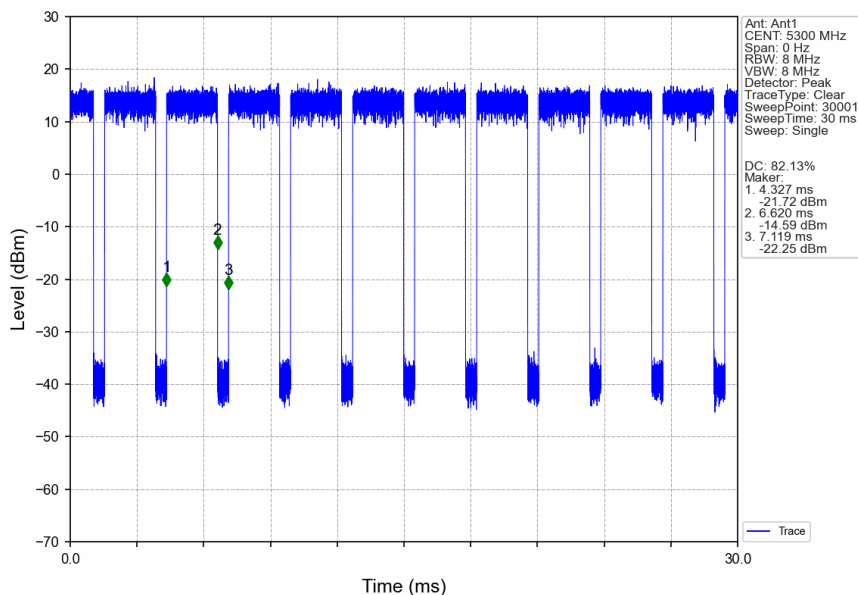
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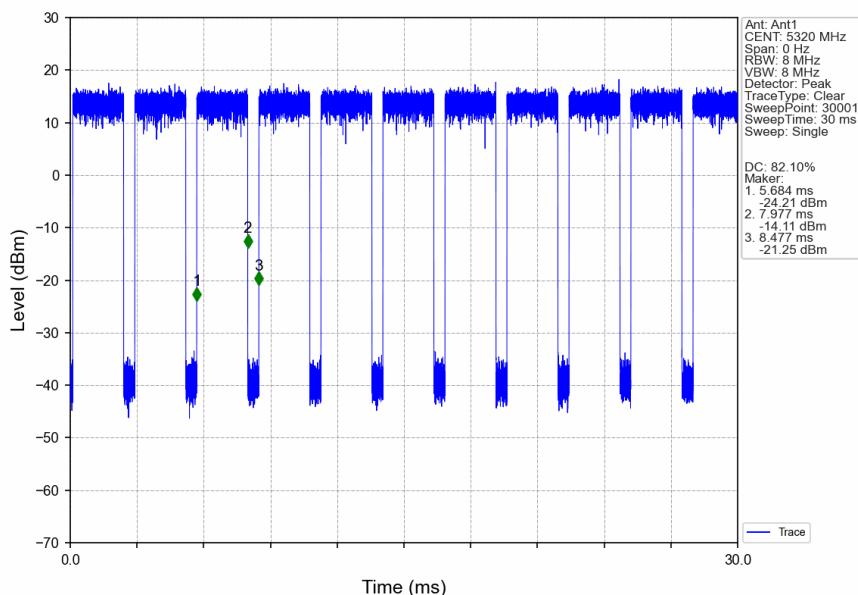
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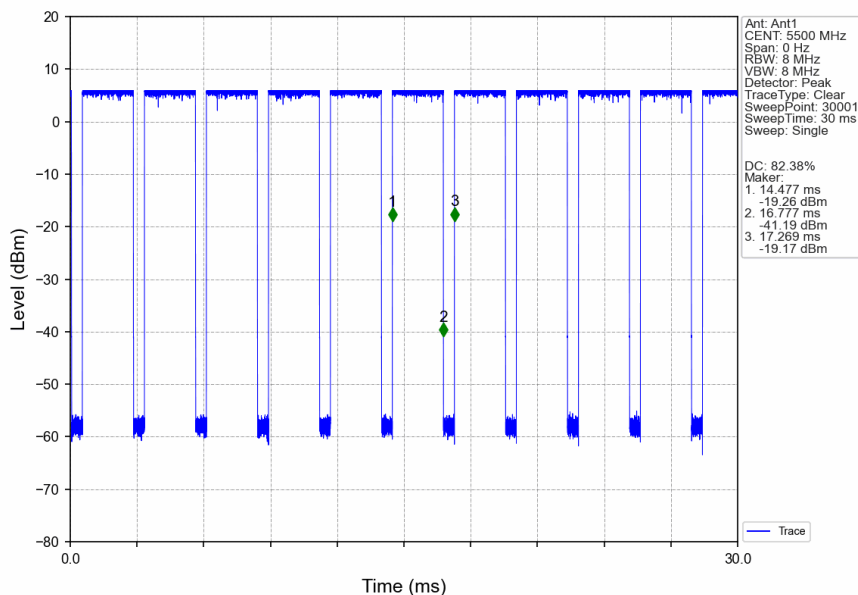
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



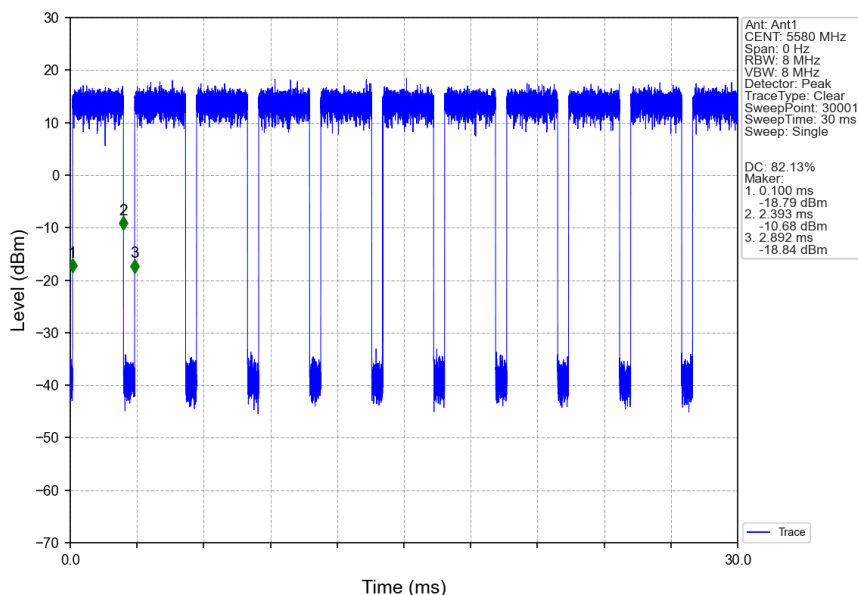
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



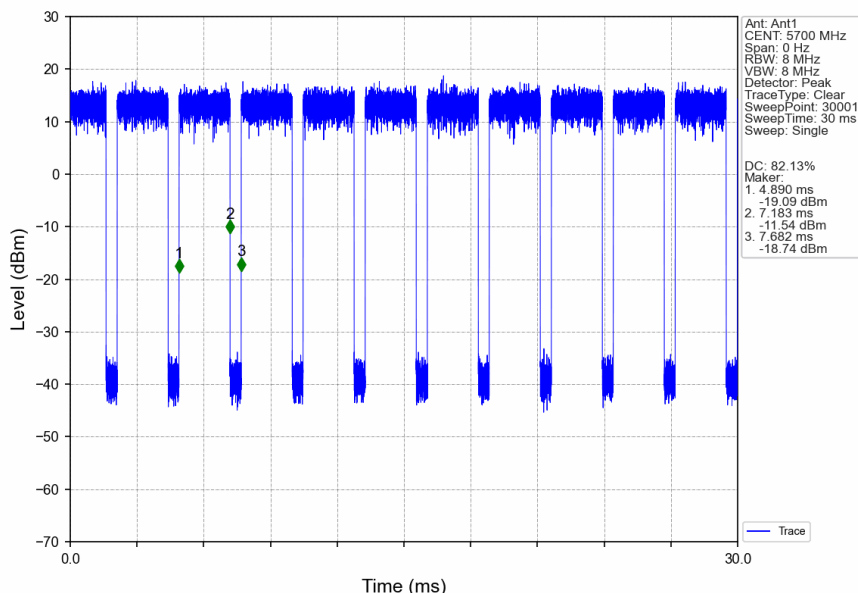
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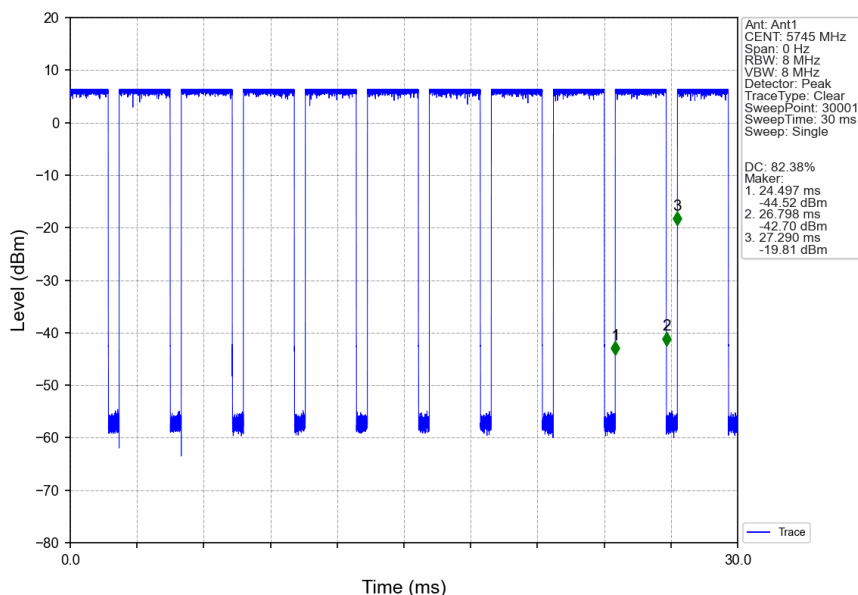
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



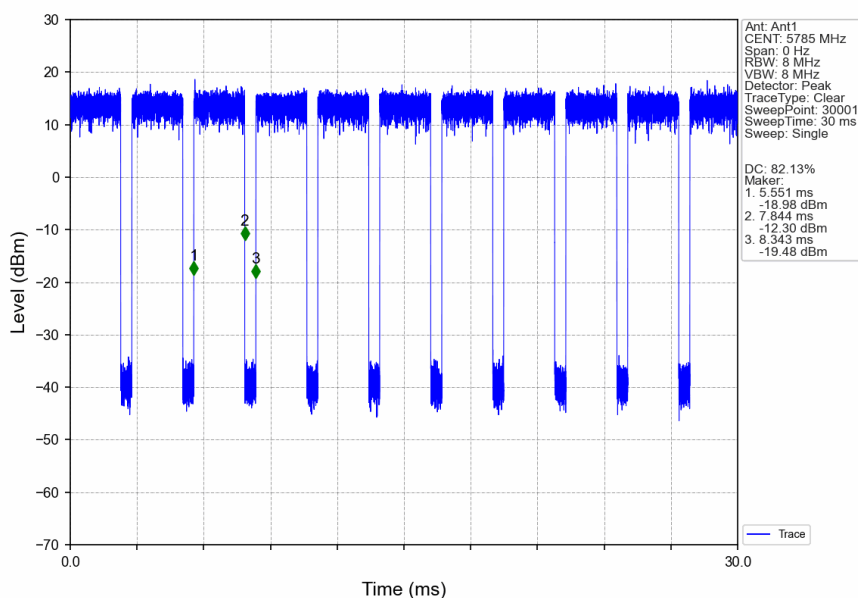
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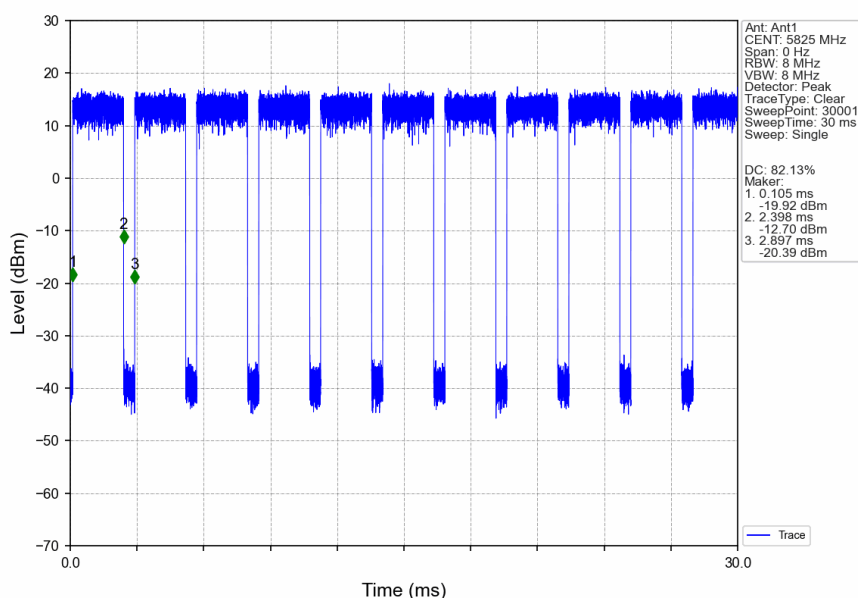
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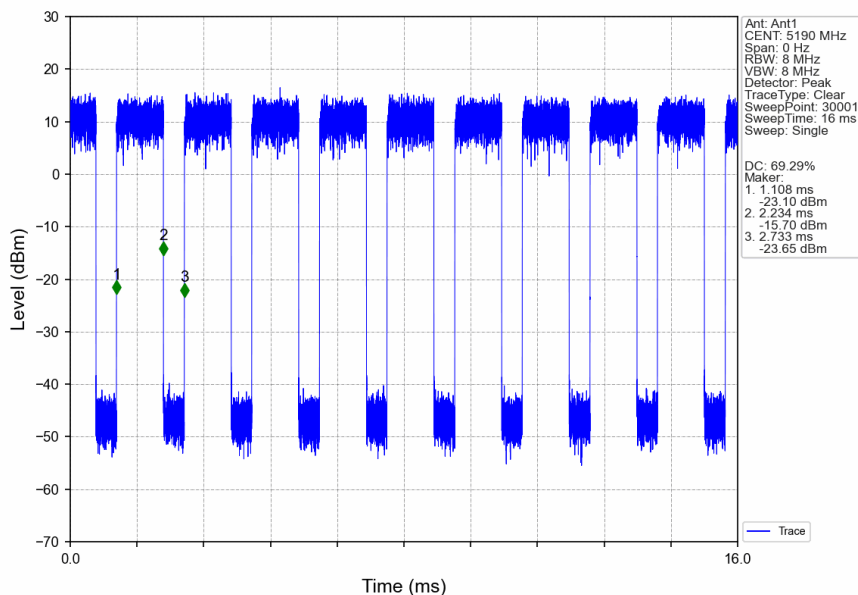
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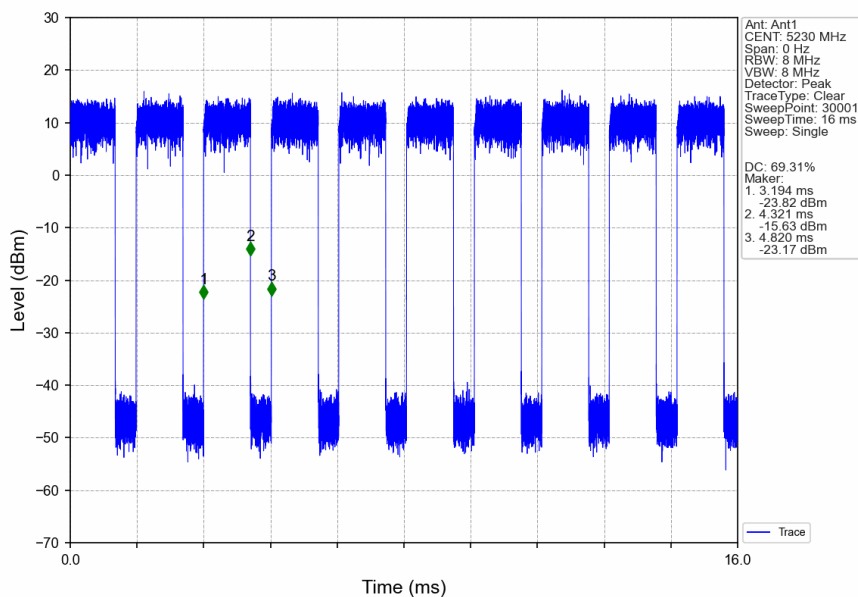
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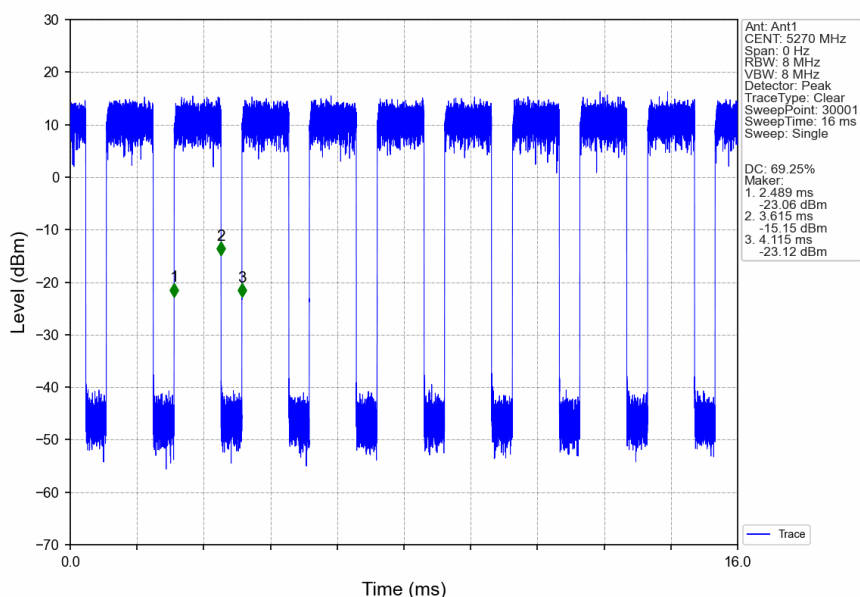
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



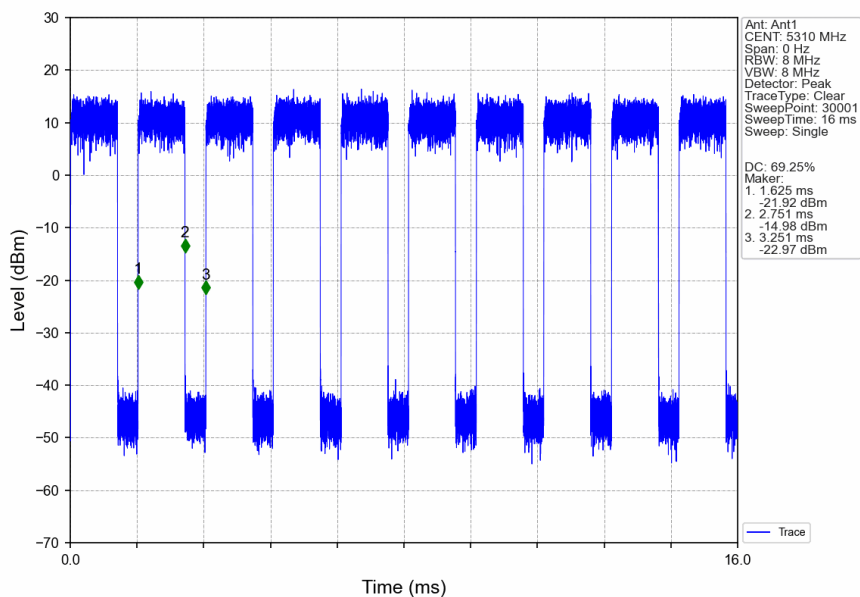
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV

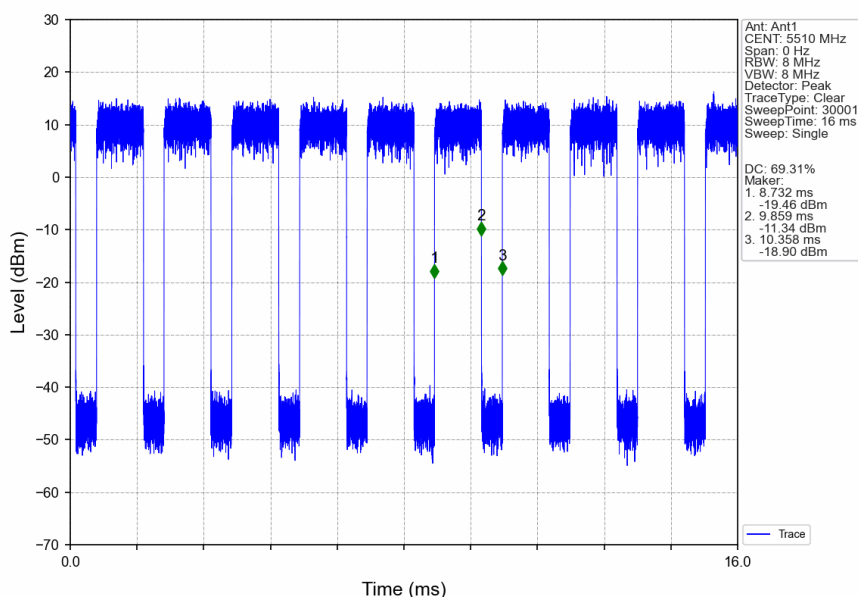


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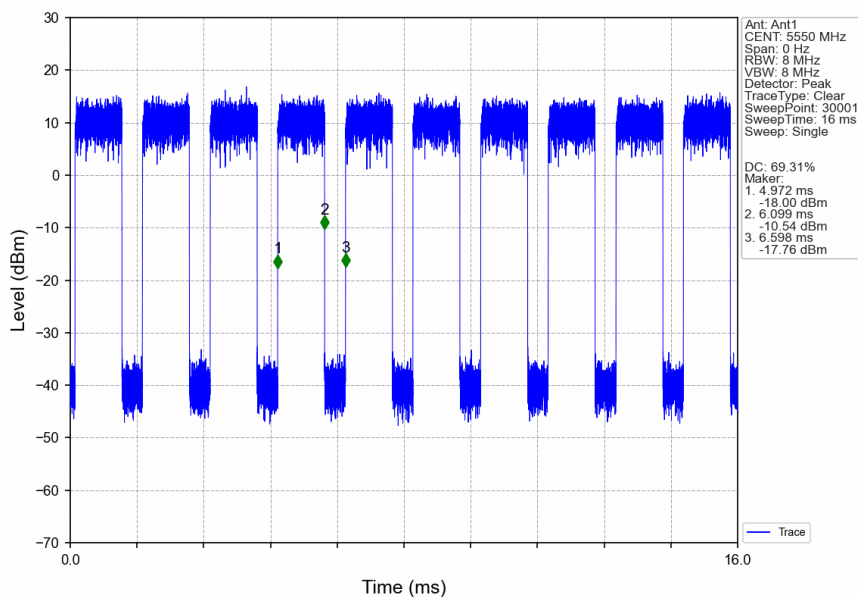
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802.11n(HT40)_MCH_5550MHz_Ant1_NTNV

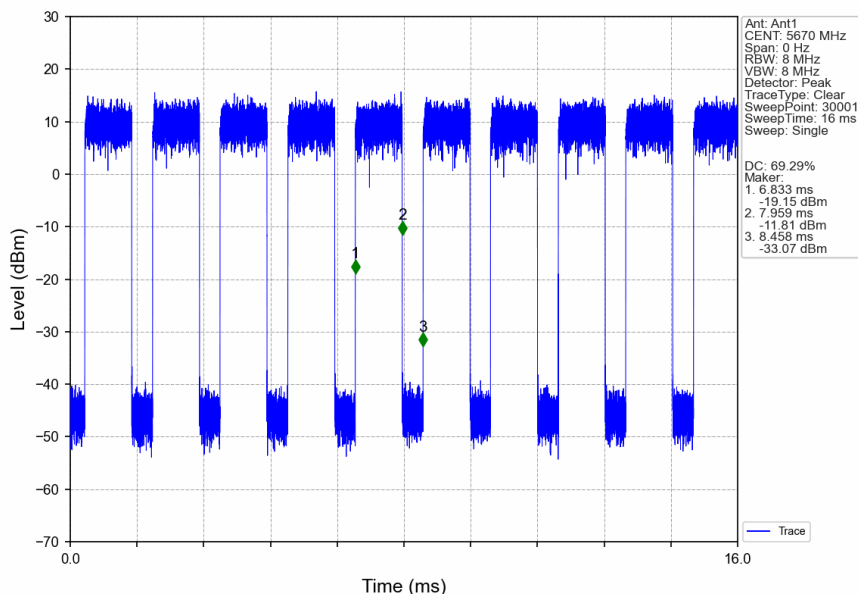


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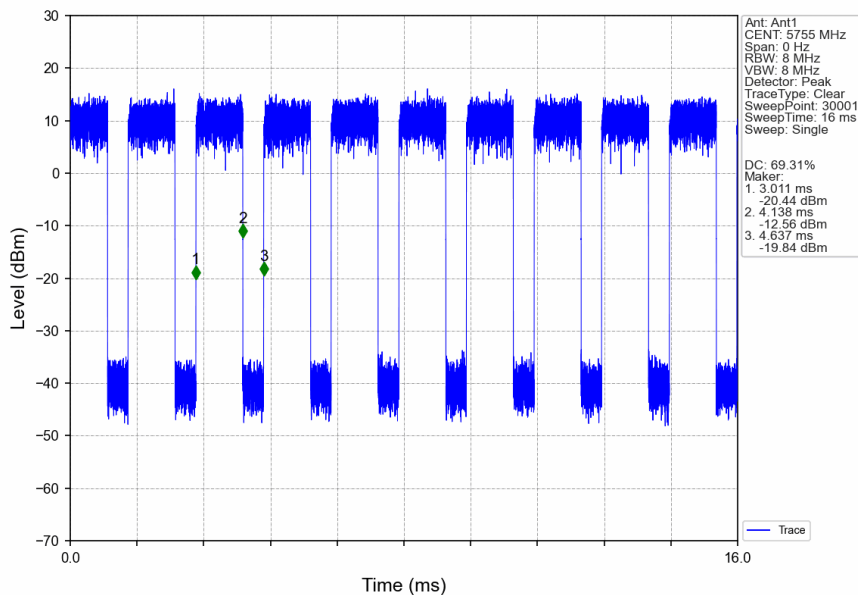
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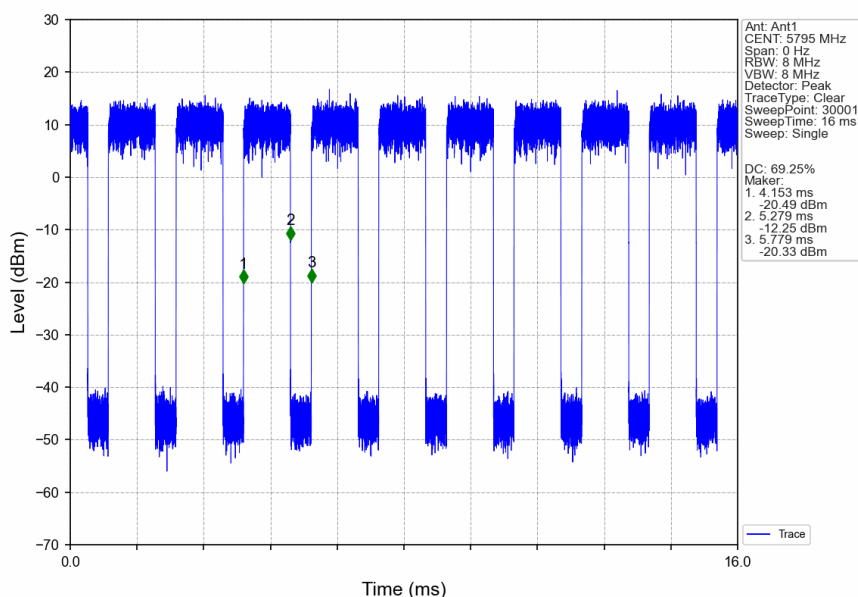
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11n (HT20)	SISO	5180	1	20.928	/	Pass
		5200	1	19.952	/	Pass
		5240	1	19.869	/	Pass
		5260	1	21.290	/	Pass
		5300	1	20.917	/	Pass
		5320	1	20.604	/	Pass
		5500	1	19.672	/	Pass
		5580	1	19.842	/	Pass
		5700	1	18.892	/	Pass
		5745	1	19.298	/	Pass
		5785	1	19.371	/	Pass
		5825	1	19.461	/	Pass
802.11n (HT40)	SISO	5190	1	41.307	/	Pass
		5230	1	41.100	/	Pass
		5270	1	44.148	/	Pass
		5310	1	44.363	/	Pass
		5510	1	40.634	/	Pass
		5550	1	40.704	/	Pass
		5670	1	38.397	/	Pass
		5755	1	38.520	/	Pass
		5795	1	38.118	/	Pass



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2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11n (HT20)	SISO	5180	1	34.163	/	Pass
		5200	1	35.875	/	Pass
		5240	1	33.633	/	Pass
		5260	1	35.386	/	Pass
		5300	1	35.353	/	Pass
		5320	1	37.563	/	Pass
		5500	1	34.321	/	Pass
		5580	1	37.877	/	Pass
		5700	1	32.868	/	Pass
802.11n (HT40)	SISO	5190	1	73.518	/	Pass
		5230	1	78.991	/	Pass
		5270	1	81.610	/	Pass
		5310	1	79.893	/	Pass
		5510	1	79.004	/	Pass
		5550	1	75.740	/	Pass
		5670	1	75.857	/	Pass

2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11n (HT20)	SISO	5745	1	13.340	≥ 0.5	Pass
		5785	1	13.880	≥ 0.5	Pass
		5825	1	14.577	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	30.170	≥ 0.5	Pass
		5795	1	28.291	≥ 0.5	Pass



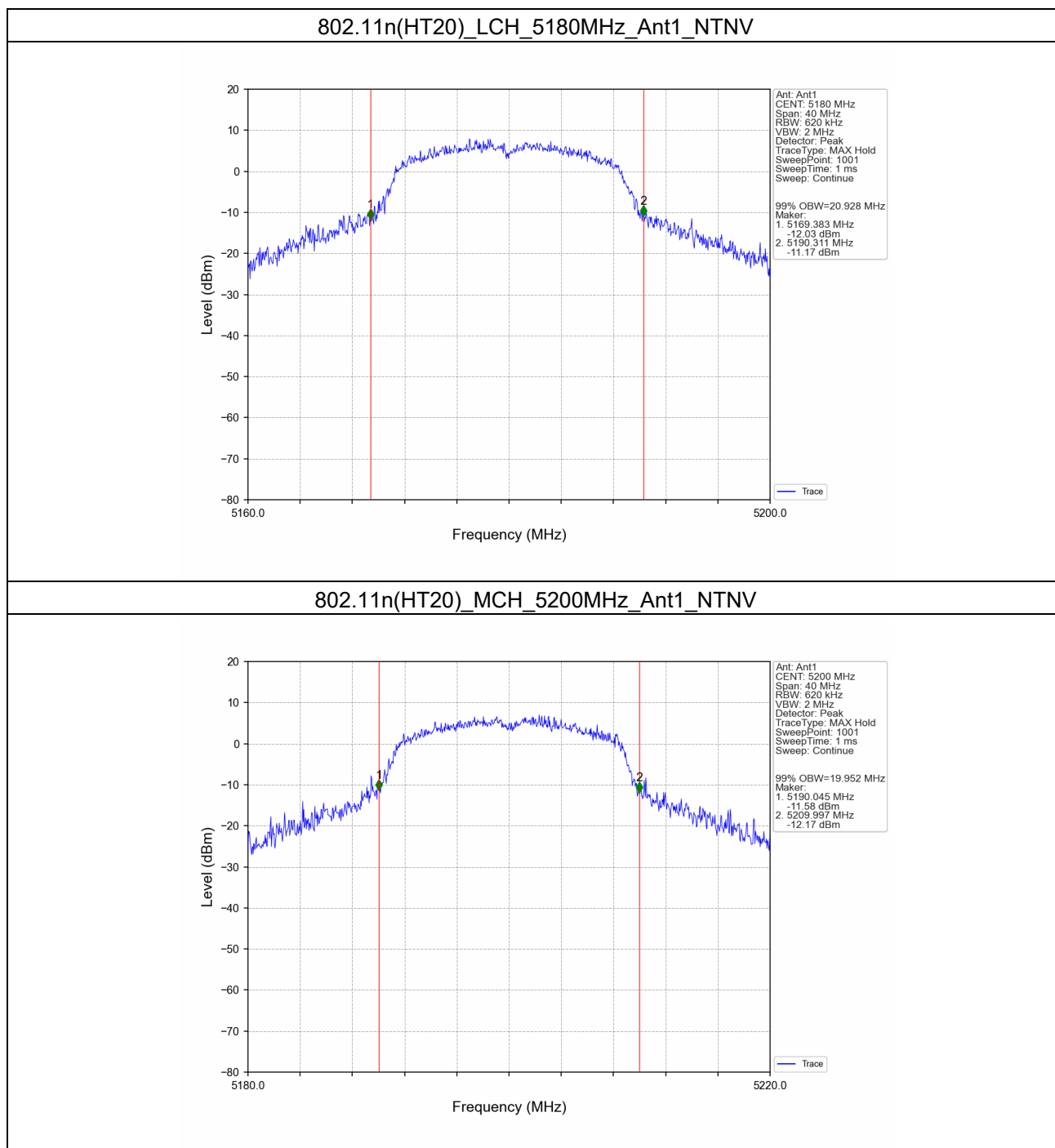
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2.2 Test Graph

2.2.1 OBW



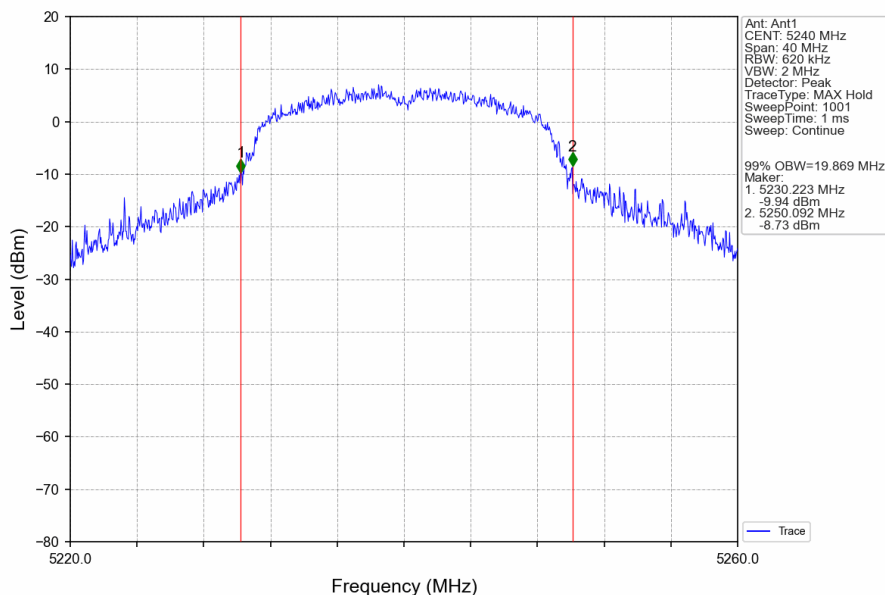
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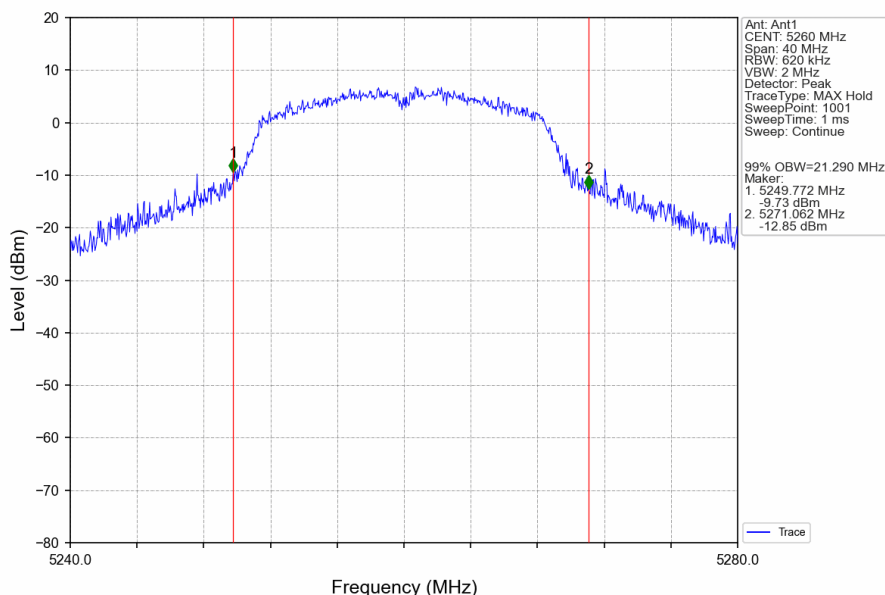
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



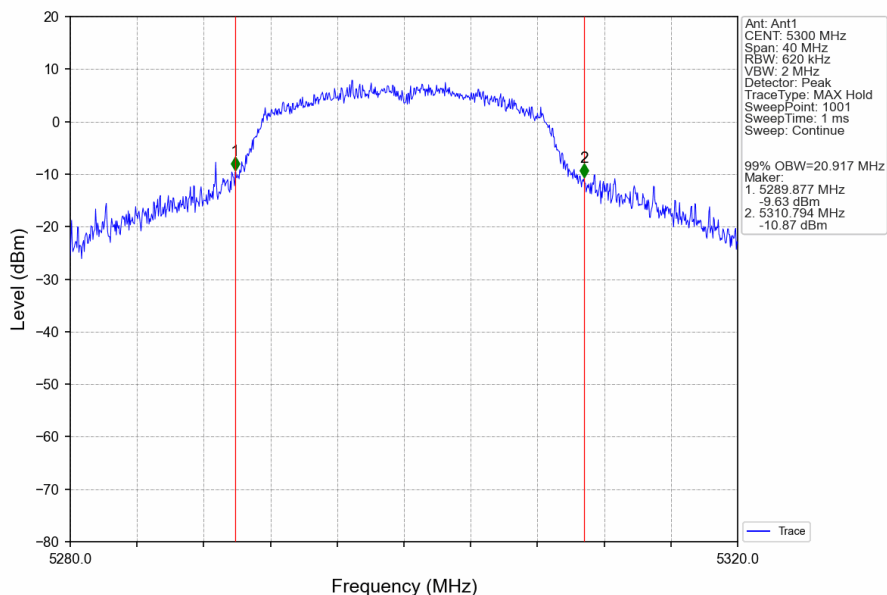
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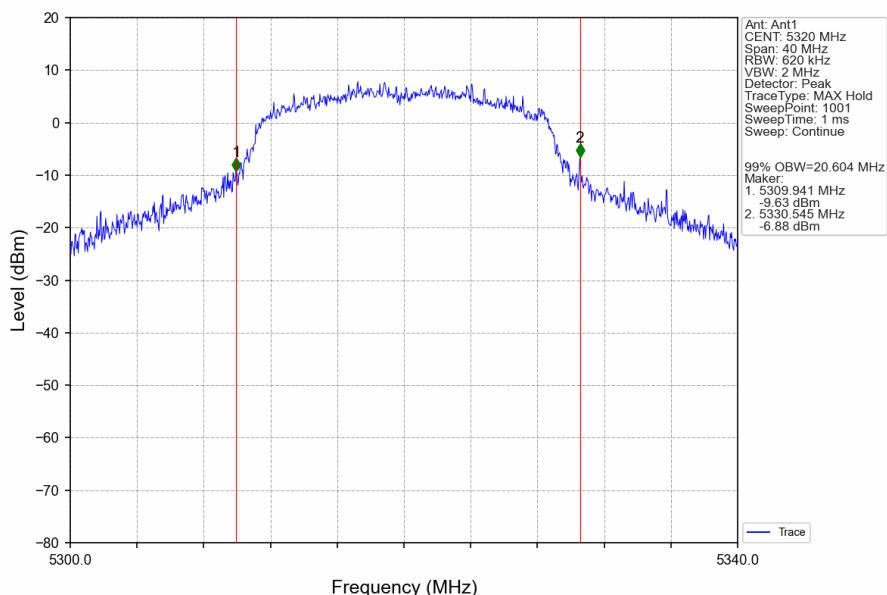
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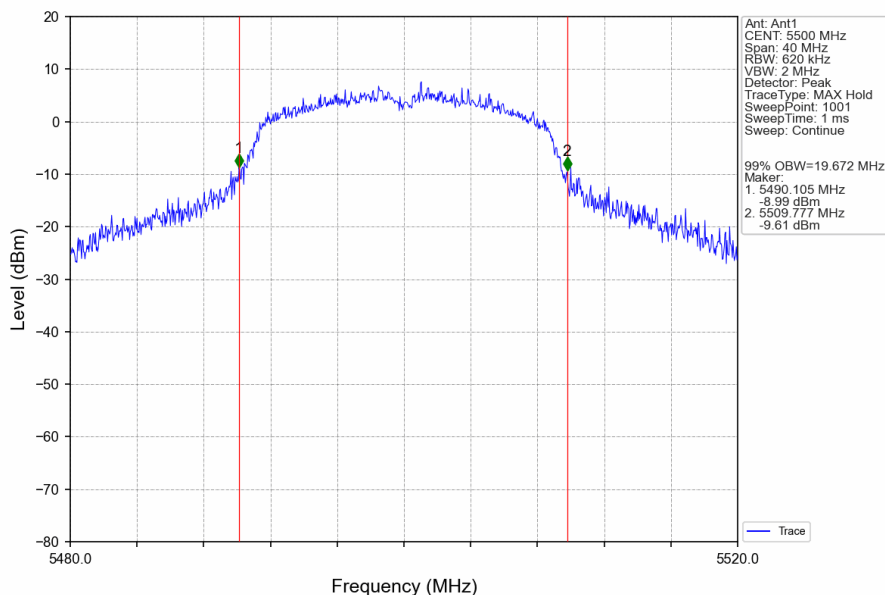
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



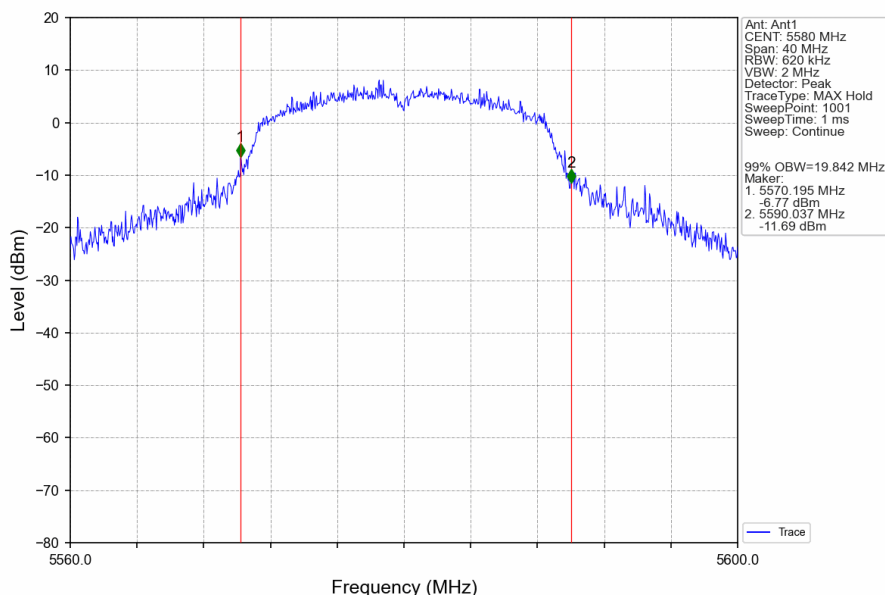
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV

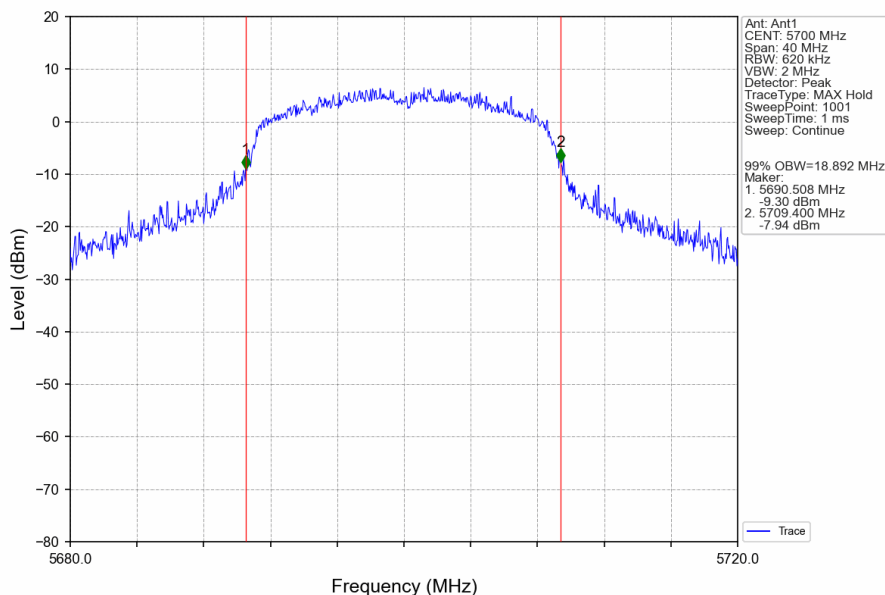


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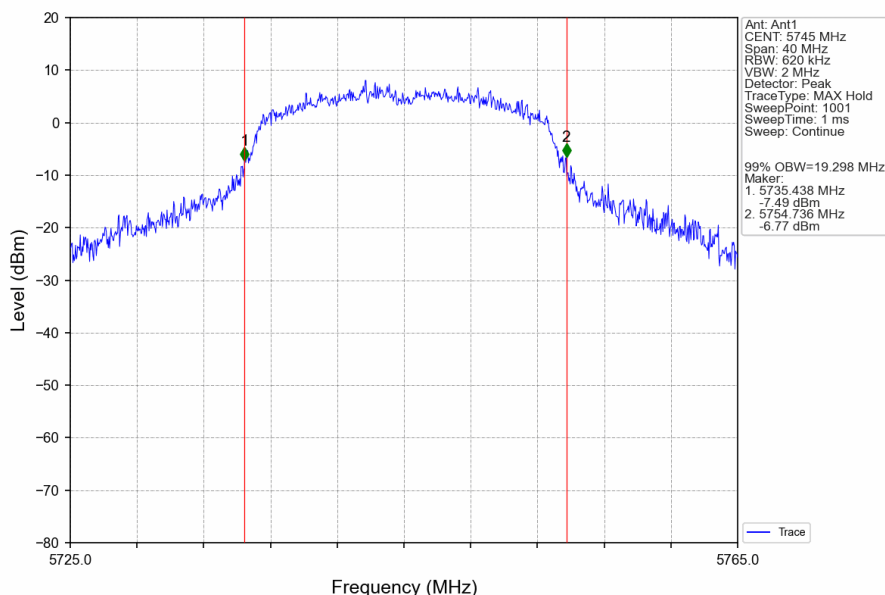
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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