

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
Item No.: 737-9052-800
FCC ID: UKU-RAD25
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:	Rechargeable battery DC7.6V,900mAh,6.84Wh or DC7.6V,1200mAh,9.12Wh for drone ,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 drone: 4*USB-C cable: about 30cm 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	2026-03-21	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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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100502609

Page: 11 of 120

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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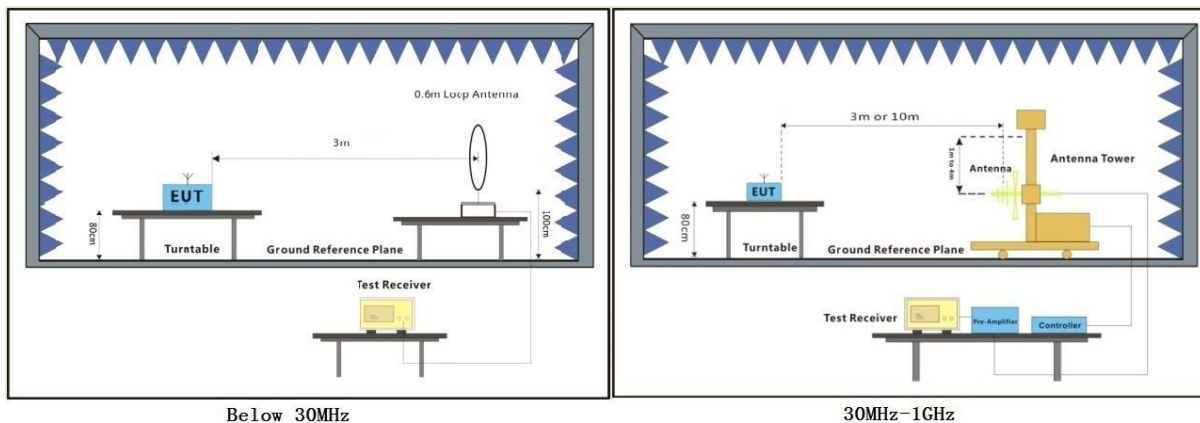
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7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode (U-NII-1)_Keep the EUT(drone) 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	14	TX mode (U-NII-2A)_Keep the EUT(drone) 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	15	TX mode (U-NII-2C)_Keep the EUT(drone) 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	16	TX mode (U-NII-3)_Keep the EUT(drone) 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/ac/ax/be 20/40/80/160, 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.

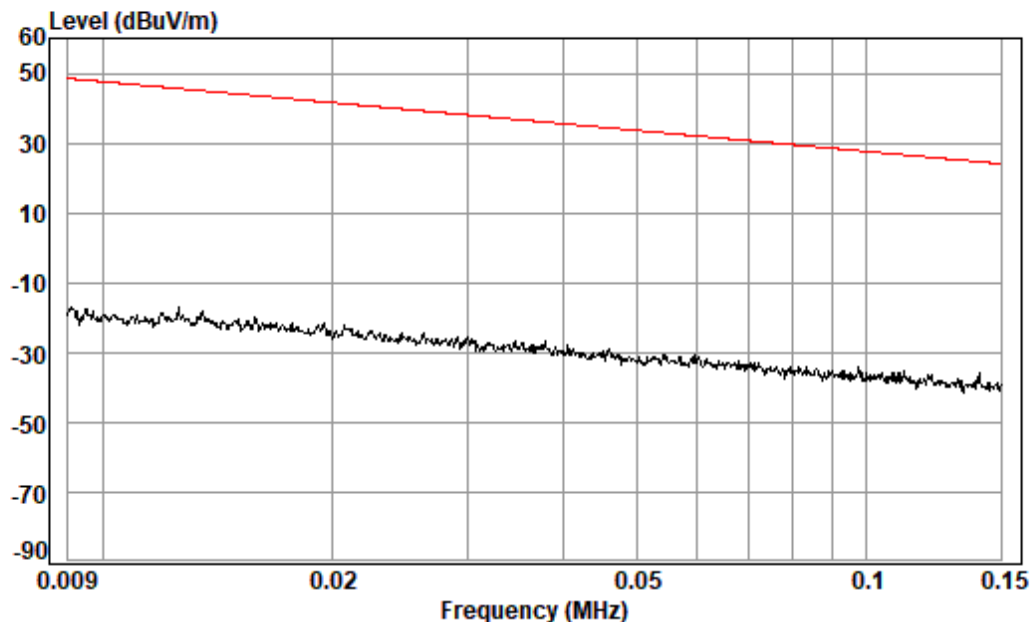


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Test Mode: 13; Polarity: Coaxial



Condition: 3m

Job No. : 05026AT

Test Mode: 13

: coaxial



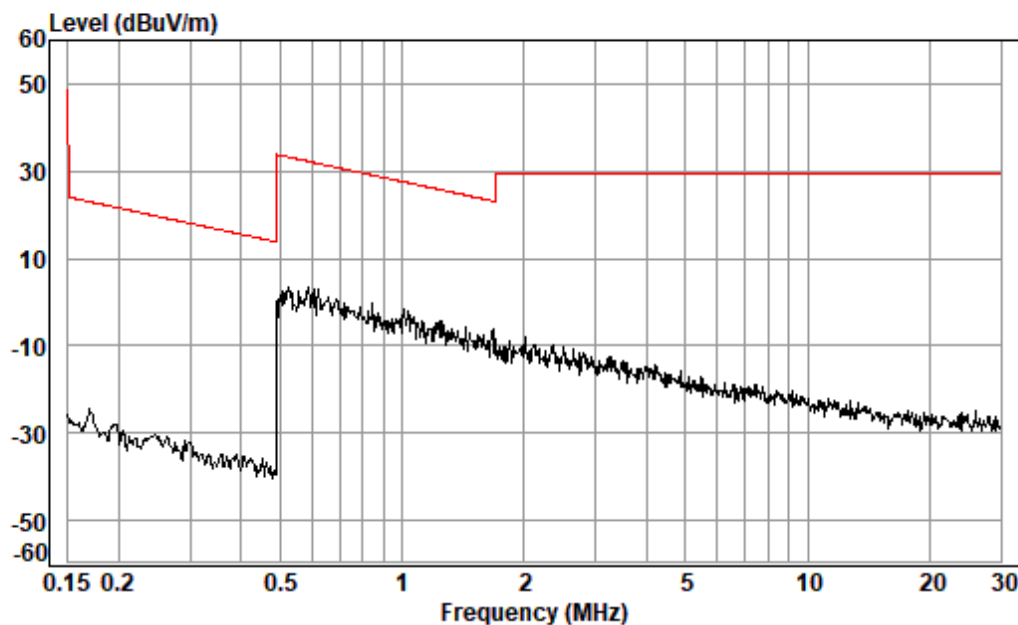
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Test Mode: 13; Polarity: Coaxial



Condition: 3m
Job No. : 05026AT
Test Mode: 13
: coaxial



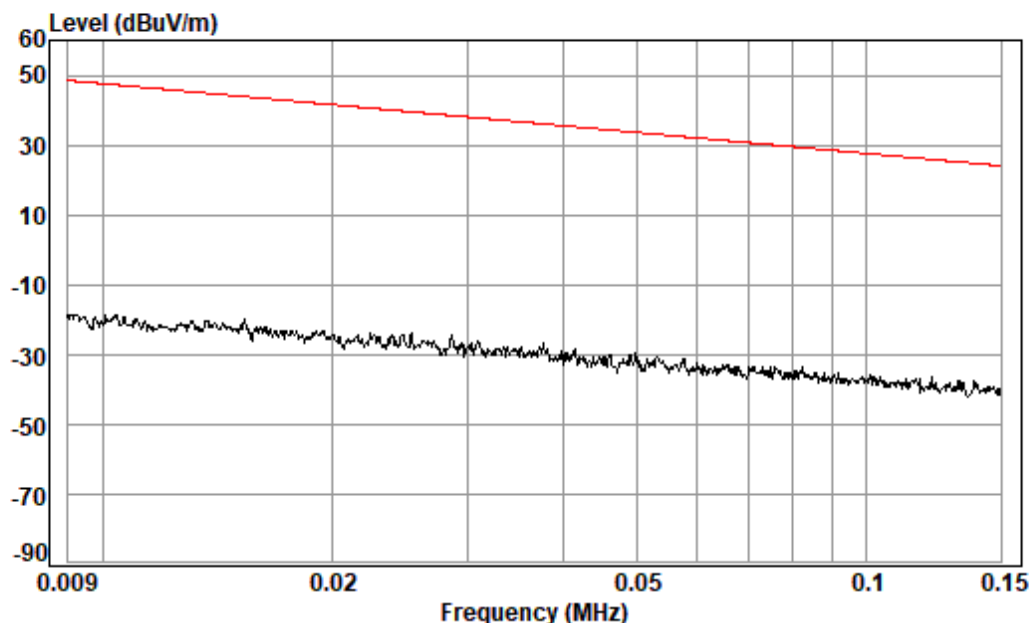
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Test Mode: 13; Polarity: Coplanar



Condition: 3m
Job No. : 05026AT
Test Mode: 13
: coplanar



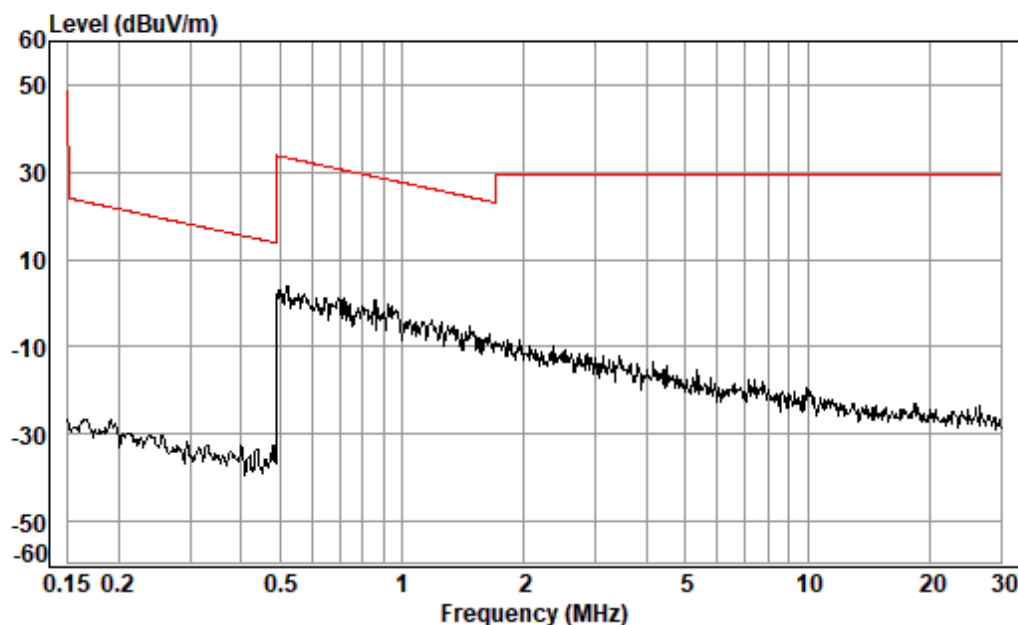
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Test Mode: 13; Polarity: Coplanar



Condition: 3m
Job No. : 05026AT
Test Mode: 13
: coplanar



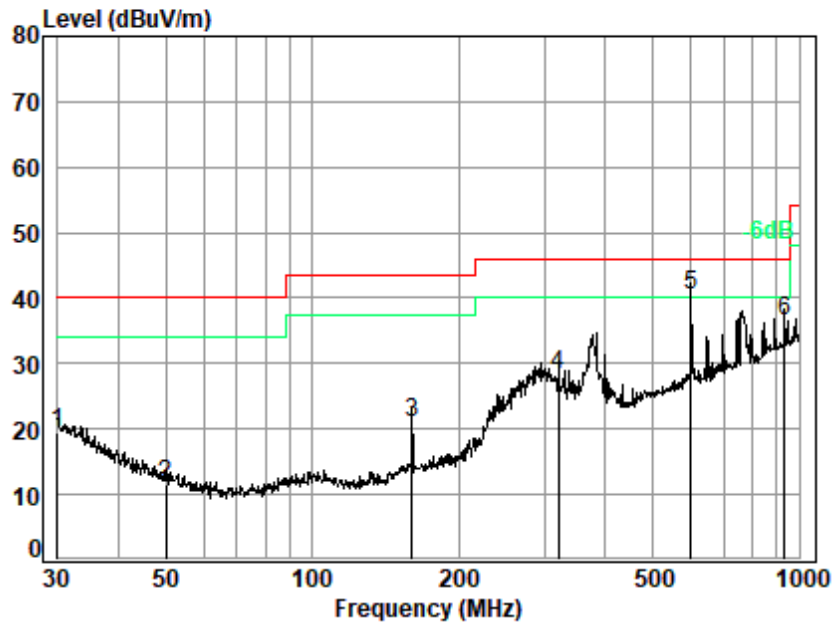
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Test Mode: 13; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 05026AT/05027AT

Test Mode: 13

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.000	21.45	0.74	27.65	24.99	19.53	40.00	-20.47 QP
2	50.057	13.03	0.90	27.63	25.41	11.71	40.00	-28.29 QP
3	160.346	13.92	1.55	27.74	33.28	21.01	43.50	-22.49 QP
4	321.061	18.54	2.20	27.56	35.18	28.36	46.00	-17.64 QP
5 q	599.321	23.95	3.10	28.10	41.47	40.42	46.00	-5.58 QP
6	935.546	28.92	4.05	26.76	30.14	36.35	46.00	-9.65 QP



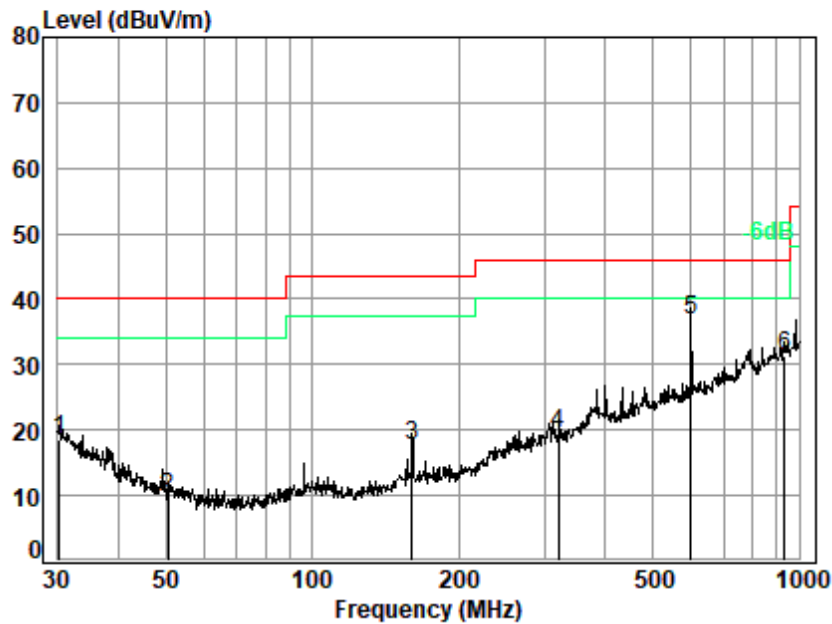
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Test Mode: 13; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 05026AT/05027AT

Test Mode: 13

		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	30.211	21.34	0.74	27.65	24.26	18.69	40.00	-21.31 QP
2	50.409	12.95	0.90	27.63	23.51	9.73	40.00	-30.27 QP
3	160.346	13.92	1.55	27.74	29.82	17.55	43.50	-25.95 QP
4	321.061	18.54	2.20	27.56	26.29	19.47	46.00	-26.53 QP
5 q	599.321	23.95	3.10	28.10	37.79	36.74	46.00	-9.26 QP
6	935.546	28.92	4.05	26.76	25.15	31.36	46.00	-14.64 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 $20\log(1/3) = -$



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SZEMC-TRF-01 Rev. A/2

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9.54dB (for 1m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

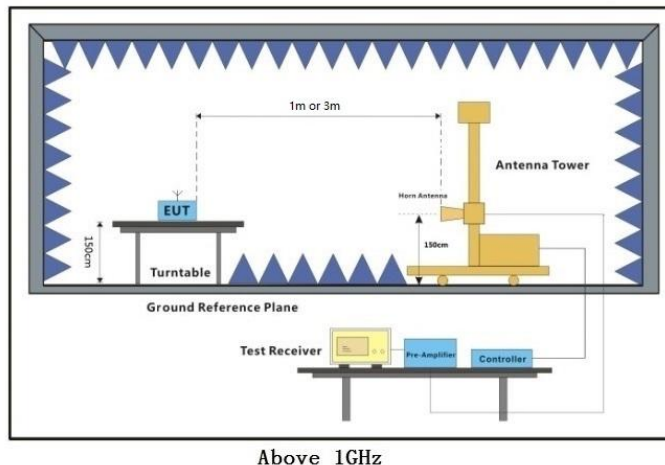
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode (U-NII-1)_Keep the EUT(drone) 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	14	TX mode (U-NII-2A)_Keep the EUT(drone) 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	15	TX mode (U-NII-2C)_Keep the EUT(drone) 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	16	TX mode (U-NII-3)_Keep the EUT(drone) 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



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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.

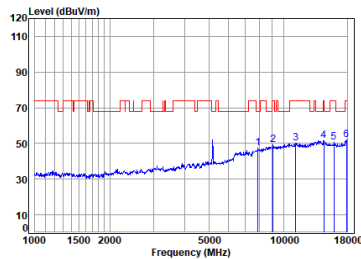


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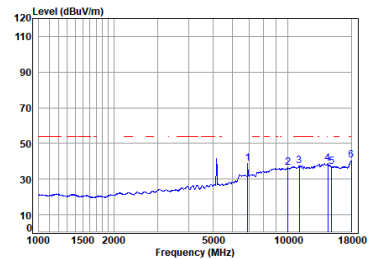
11n_20M_TX_CH_36_Horizontal-Peak



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

Freq	Loss	Factor	Factor	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dB	Factor
1 pp 7875.254	11.48	37.20	55.97	54.55	47.26	68.20	-20.94	Peak 0.00
2 9875.460	12.13	38.55	54.62	53.21	49.27	74.00	-24.73	Peak 0.00
3 11172.560	14.73	39.45	53.45	49.39	50.12	74.00	-23.88	Peak 0.00
4 14491.960	17.07	40.22	54.10	48.29	51.48	74.00	-22.52	Peak 0.00
5 15942.300	17.22	38.32	53.72	48.66	50.48	74.00	-23.52	Peak 0.00
6 17896.150	18.15	41.97	54.26	46.18	52.14	74.00	-21.86	Peak 0.00

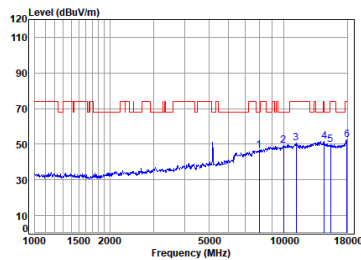
11n_20M_TX_CH_36_Horizontal-Avg



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

Freq	Loss	Factor	Factor	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dB	Factor
1 6914.763	11.37	36.27	56.51	47.62	38.75	-----	-----	Average 0.00
2 10010.420	13.04	38.90	53.60	38.06	36.48	-----	-----	Average 0.00
3 11140.310	14.70	39.38	53.46	36.96	37.58	54.00	-16.42	Average 0.00
4 14491.960	17.07	40.22	54.10	35.65	38.84	54.00	-15.16	Average 0.00
5 15946.850	16.65	39.45	54.08	35.07	37.09	-----	-----	Average 0.00
6 pp18000.000	18.35	42.60	54.30	33.79	40.44	54.00	-13.56	Average 0.00

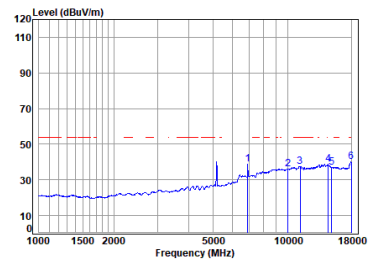
11n_20M_TX_CH_36_Vertical-Peak



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

Freq	Loss	Factor	Factor	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dB	Factor
1 7966.832	11.55	37.27	55.92	53.79	46.69	68.20	-21.51	Peak 0.00
2 9981.525	12.97	38.83	53.62	51.28	49.46	68.20	-18.74	Peak 0.00
3 11204.900	14.75	39.50	53.44	49.72	50.53	74.00	-23.47	Peak 0.00
4 pp14533.910	16.79	40.20	54.10	48.52	51.41	68.20	-16.79	Peak 0.00
5 15443.410	16.82	38.96	53.92	47.88	49.74	74.00	-24.26	Peak 0.00
6 17948.050	18.30	42.29	54.28	46.21	52.52	74.00	-21.48	Peak 0.00

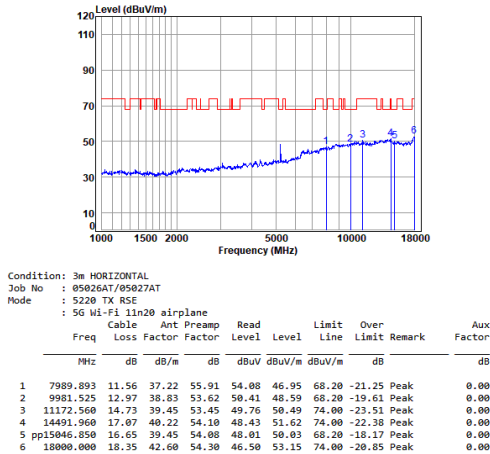
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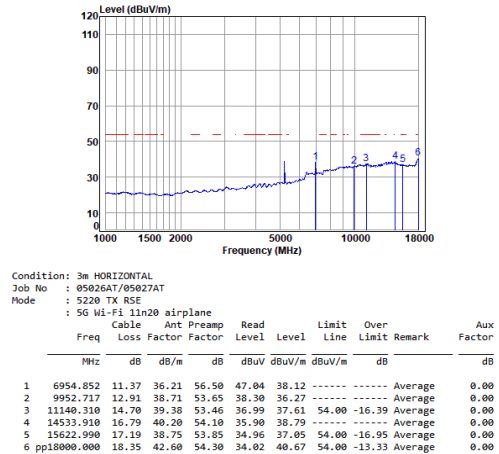
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Job No : 05026AT/05027AT
Mode : 5180 TX RSE
: 5G Wi-Fi 11n20 airplane

Freq	Loss	Factor	Factor	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dB	Factor
1 6914.763	11.37	36.27	56.51	47.43	38.56	-----	-----	Average 0.00
2 10010.420	13.04	38.90	53.60	37.91	36.25	-----	-----	Average 0.00
3 11204.900	14.75	39.50	53.44	36.71	37.52	54.00	-16.48	Average 0.00
4 14533.910	16.79	40.20	54.10	36.00	38.89	-----	-----	Average 0.00
5 15946.850	16.65	39.45	54.08	35.14	37.16	-----	-----	Average 0.00
6 pp18000.000	18.35	42.60	54.30	33.71	40.36	54.00	-13.64	Average 0.00

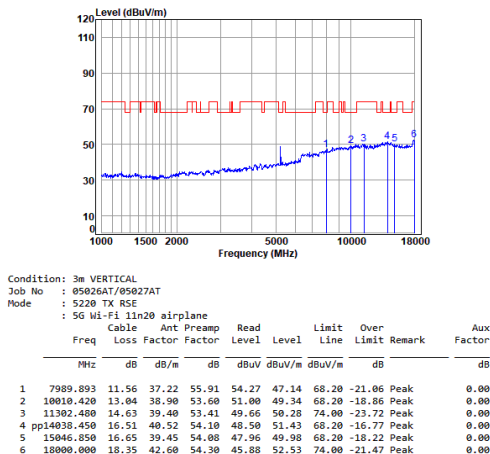
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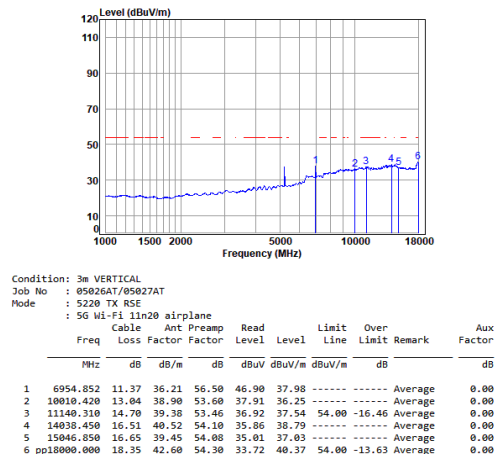
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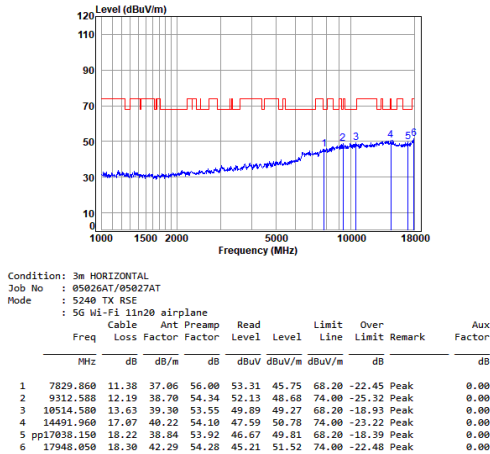
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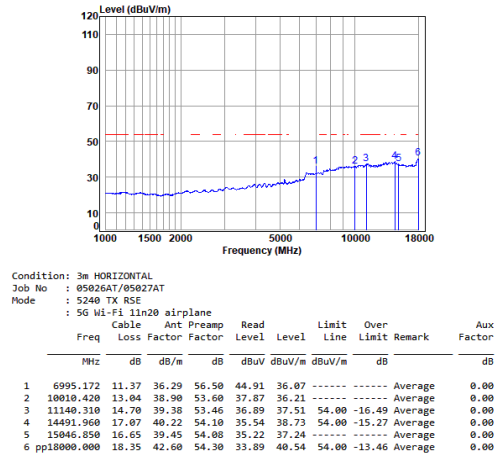
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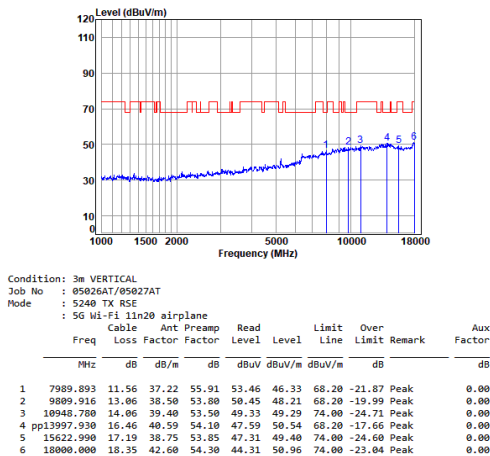
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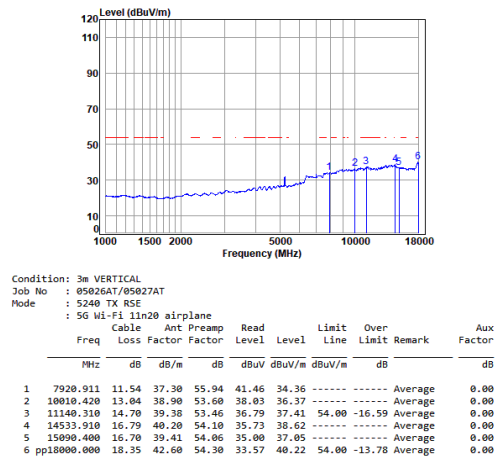
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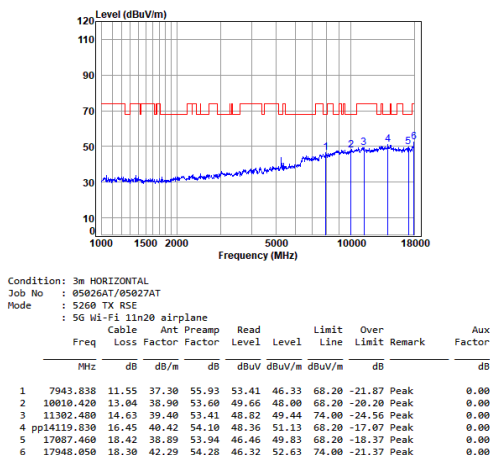


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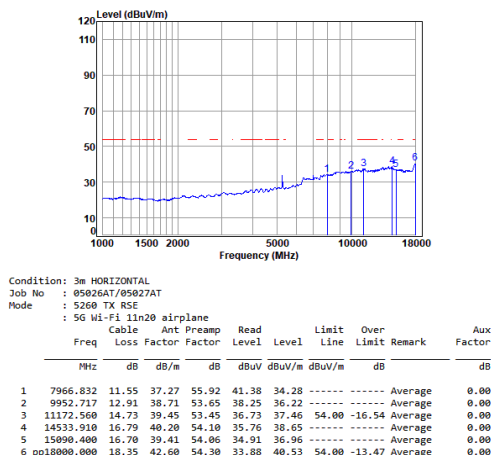
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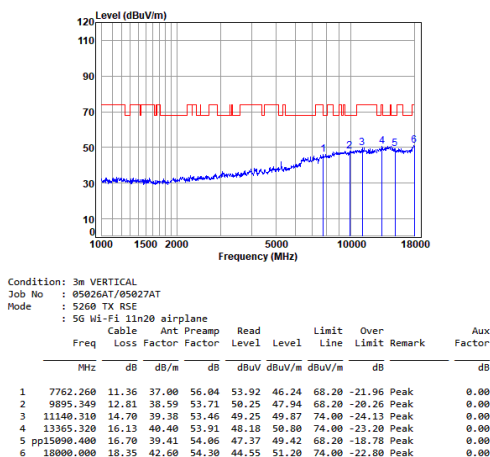
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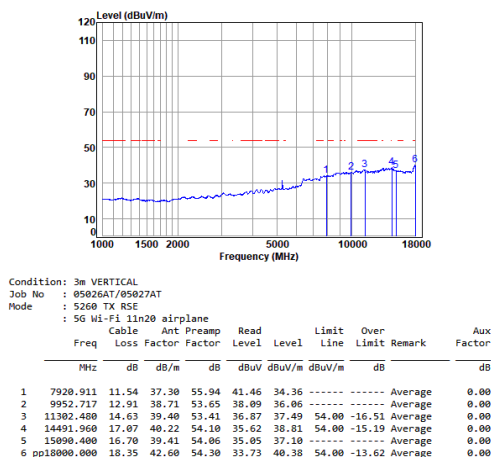
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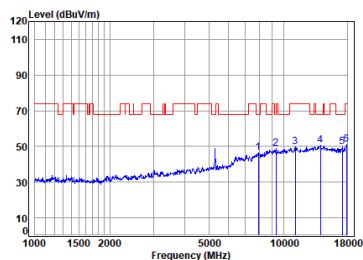
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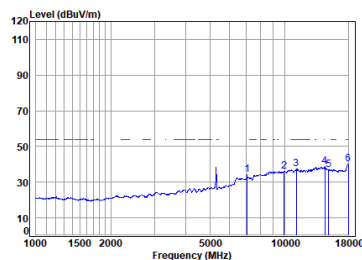
11n_20M_TX_CH_60_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5300 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7898.049	11.54	37.29	55.96	53.50	46.37	68.20	-21.83	Peak	0.00
2 9312.588	12.19	38.70	54.34	52.05	48.60	74.00	-25.40	Peak	0.00
3 11140.310	14.70	39.38	53.46	49.05	49.67	74.00	-24.33	Peak	0.00
4 14491.960	16.51	40.52	54.10	47.84	50.77	68.20	-17.43	Peak	0.00
5 17186.538	17.91	38.99	53.98	46.81	49.73	68.20	-18.47	Peak	0.00
6 17896.258	18.25	41.97	54.26	45.31	51.27	74.00	-22.73	Peak	0.00

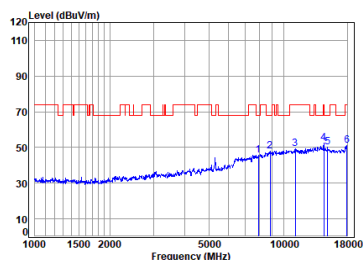
11n_20M_TX_CH_60_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5300 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7876.516	11.85	36.56	56.45	42.37	34.33	-----	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	38.20	36.17	-----	-----	Average	0.00
3 11140.310	14.70	39.38	53.46	36.78	37.40	54.00	-16.60	Average	0.00
4 14491.960	17.07	40.22	54.10	35.45	38.64	54.00	-15.36	Average	0.00
5 15046.850	16.65	39.45	54.08	34.99	37.01	-----	-----	Average	0.00
6 18000.000	18.35	42.60	54.30	33.57	40.22	54.00	-13.78	Average	0.00

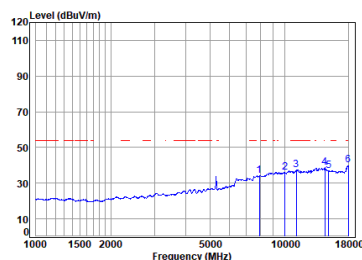
11n_20M_TX_CH_60_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5300 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7898.049	11.54	37.29	55.96	52.65	45.52	68.20	-22.68	Peak	0.00
2 8814.957	12.25	38.33	54.91	52.41	48.08	68.20	-20.12	Peak	0.00
3 11140.310	14.70	39.38	53.46	48.71	49.33	74.00	-24.67	Peak	0.00
4 14491.960	17.07	40.22	54.10	49.12	52.31	74.00	-21.69	Peak	0.00
5 15046.850	16.65	39.45	54.08	48.24	50.26	68.20	-17.94	Peak	0.00
6 17948.050	18.30	42.29	54.28	44.98	51.29	74.00	-22.71	Peak	0.00

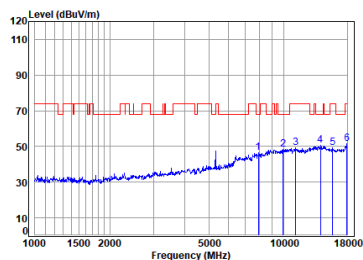
11n_20M_TX_CH_60_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5300 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7920.911	11.54	37.30	55.94	41.38	34.28	-----	-----	Average	0.00
2 10010.420	13.04	38.90	53.60	37.86	36.20	-----	-----	Average	0.00
3 11140.310	14.70	39.38	53.46	36.77	37.39	54.00	-16.61	Average	0.00
4 14491.960	17.07	40.22	54.10	35.46	38.65	54.00	-15.35	Average	0.00
5 15046.850	16.65	39.45	54.08	34.98	36.92	-----	-----	Average	0.00
6 18000.000	18.35	42.60	54.30	33.48	40.13	54.00	-13.87	Average	0.00

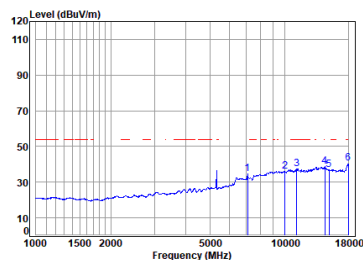
11n_20M_TX_CH_64_Horizontal-Peak



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

		Cable		Ant	Preamp	Read	Limit	Over	Remark	Aux
Freq	Loss	Factor	Factor	Level	Level	Level	Line	Limit		Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	7920.911	11.54	37.30	55.94	53.65	46.55	68.20	-21.65	Peak	0.00
2	9952.717	12.91	38.71	53.65	50.29	48.26	68.20	-19.94	Peak	0.00
3	11172.560	14.73	39.45	53.45	48.40	49.13	74.00	-24.87	Peak	0.00
4	pp14079.080	16.56	40.44	54.10	47.56	50.46	68.20	-17.74	Peak	0.00
5	15713.560	17.24	38.60	53.81	47.16	49.19	74.00	-24.81	Peak	0.00
6	17948.050	18.30	42.29	54.28	45.32	51.63	74.00	-22.37	Peak	0.00

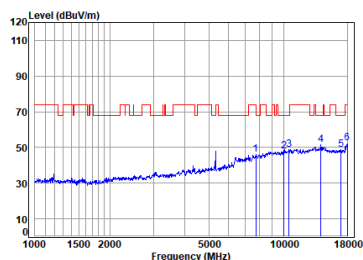
11n_20M_TX_CH_64_Horizontal-Avg



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

		Cable		Ant	Preamp	Read	Limit	Over	Remark	Aux
Freq	Loss	Factor	Factor	Level	Level	Level	Line	Limit		Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	7096.999	11.97	36.68	56.44	42.63	34.84	-----	-----	Average	0.00
2	10010.420	13.04	38.90	53.60	37.69	36.03	-----	-----	Average	0.00
3	11172.560	14.73	39.45	53.45	36.63	37.36	54.00	-16.64	Average	0.00
4	14491.960	17.07	40.22	54.10	35.43	38.62	54.00	-15.38	Average	0.00
5	15090.400	16.70	39.41	54.06	34.95	37.00	-----	-----	Average	0.00
6	pp18000.000	18.35	42.60	54.30	33.77	40.42	54.00	-13.58	Average	0.00

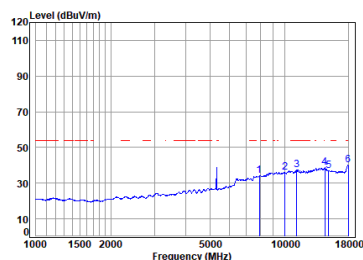
11n_20M_TX_CH_64_Vertical-Peak



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

		Cable		Ant	Preamp	Read	Limit	Over	Remark	Aux
Freq	Loss	Factor	Factor	Level	Level	Level	Line	Limit		Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	7717.518	11.43	36.94	56.06	53.78	46.09	74.00	-27.91	Peak	0.00
2	10010.420	13.04	38.90	53.60	49.71	48.05	68.20	-20.15	Peak	0.00
3	10514.500	13.63	39.30	53.55	49.61	48.99	68.20	-19.21	Peak	0.00
4	pp14119.830	16.45	40.42	54.10	48.79	51.56	68.20	-16.64	Peak	0.00
5	17038.150	18.22	38.84	53.92	45.67	48.81	68.20	-19.39	Peak	0.00
6	18000.000	18.35	42.60	54.30	45.67	52.32	74.00	-21.68	Peak	0.00

11n_20M_TX_CH_64_Vertical-Avg

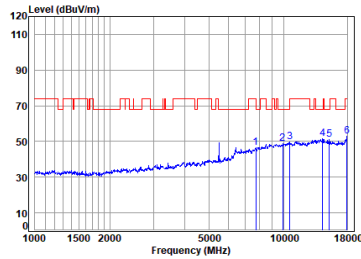


Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5320 TX RSE

		Cable		Ant	Preamp	Read	Limit	Over	Remark	Aux
Freq	Loss	Factor	Factor	Level	Level	Level	Line	Limit		Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	7920.911	11.54	37.30	55.94	41.45	34.35	-----	-----	Average	0.00
2	10010.420	13.04	38.90	53.60	37.70	36.04	-----	-----	Average	0.00
3	11172.560	14.73	39.45	53.45	36.65	37.38	54.00	-16.62	Average	0.00
4	14491.960	17.07	40.22	54.10	35.44	38.63	54.00	-15.37	Average	0.00
5	15046.850	16.65	39.45	54.08	35.11	37.13	-----	-----	Average	0.00
6	pp18000.000	18.35	42.60	54.30	33.55	40.20	54.00	-13.80	Average	0.00



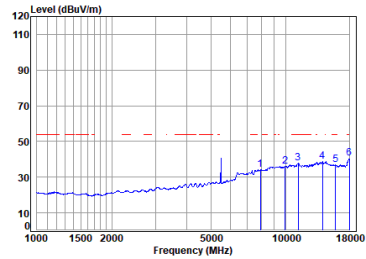
11n_20M_TX_CH_100_Horizontal-Peak



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

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 7717.518	11.43	36.94	56.06	54.25	46.56	74.00	-27.44	Peak	0.00
2 9923.991	12.85	38.65	53.68	50.99	48.81	68.20	-19.39	Peak	0.00
3 10606.150	13.62	39.30	53.54	50.48	49.86	74.00	-24.14	Peak	0.00
4 pp14325.370	16.51	40.40	54.10	48.68	51.49	68.20	-16.71	Peak	0.00
5 15265.880	16.85	39.23	53.99	48.93	51.02	68.20	-17.18	Peak	0.00
6 17948.050	18.30	42.29	54.28	46.46	52.77	74.00	-21.23	Peak	0.00

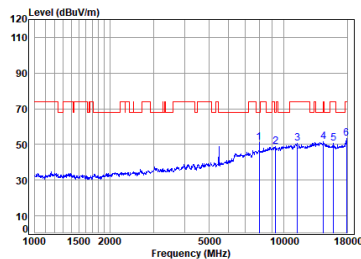
11n_20M_TX_CH_100_Horizontal-Avg



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

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 7920.911	11.54	37.30	55.94	41.36	34.26	-----	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	38.20	36.17	-----	-----	Average	0.00
3 11204.900	14.75	39.50	53.44	36.88	37.69	54.00	-16.31	Average	0.00
4 14038.450	16.51	40.52	54.10	35.75	38.68	-----	-----	Average	0.00
5 15850.410	17.16	38.50	53.76	35.10	37.00	54.00	-17.00	Average	0.00
6 pp18000.000	18.35	42.60	54.30	33.74	40.39	54.00	-13.61	Average	0.00

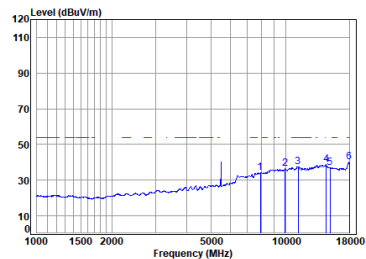
11n_20M_TX_CH_100_Vertical-Peak



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

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 7909.893	11.56	37.22	55.91	50.11	50.98	68.20	-17.22	Peak	0.00
2 9285.710	12.19	38.70	54.37	52.33	48.85	68.20	-19.35	Peak	0.00
3 11335.190	14.49	39.36	53.40	50.16	50.61	74.00	-23.39	Peak	0.00
4 pp14450.130	16.98	40.30	54.10	48.22	51.40	68.20	-16.80	Peak	0.00
5 15890.410	17.16	38.50	53.76	48.66	50.56	74.00	-23.44	Peak	0.00
6 17896.250	18.25	41.97	54.26	47.46	53.42	74.00	-20.58	Peak	0.00

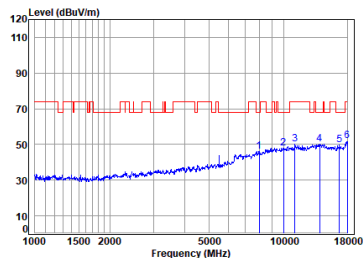
11n_20M_TX_CH_100_Vertical-Avg



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

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 7920.911	11.54	37.30	55.94	41.45	34.35	-----	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	38.34	36.31	-----	-----	Average	0.00
3 11204.900	14.75	39.50	53.44	36.78	37.59	54.00	-16.41	Average	0.00
4 14533.910	16.79	40.20	54.10	35.77	38.66	-----	-----	Average	0.00
5 15890.400	16.70	39.41	54.06	34.95	37.00	-----	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	33.51	40.16	54.00	-13.84	Average	0.00

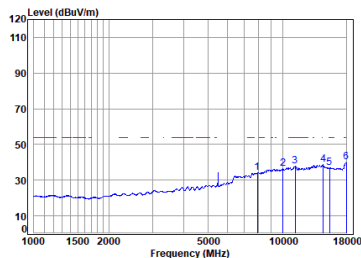
11n_20M_TX_CH_116_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE
: 5G Wi-Fi 11n20 airplane

4. 50 m 11 line airplane									
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 7966.832	11.55	37.27	55.92	53.04	45.94	68.20	-22.26	Peak	0.00
2 9901.525	12.97	38.83	53.62	49.84	48.02	68.20	-20.18	Peak	0.00
3 11100.160	14.67	39.32	53.47	49.65	50.17	74.00	-23.83	Peak	0.00
4 pp13957.530	16.25	40.43	54.09	47.70	50.29	68.20	-17.91	Peak	0.00
5 16745.218	17.53	38.55	53.85	49.53	68.20	-18.67	Peak	0.00	
6 18000.000	18.35	42.60	54.30	45.26	51.91	74.00	-22.09	Peak	0.00

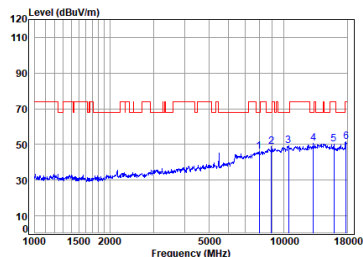
11n_20M_TX_CH_116_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7966.832	11.54	37.29	55.96	41.33	34.20	-----	-----	Average	0.00
2 9901.525	13.04	38.90	53.60	37.94	36.28	-----	-----	Average	0.00
3 11100.160	14.75	39.50	53.44	36.84	37.65	54.00	-16.35	Average	0.00
4 14533.910	16.79	40.20	54.10	35.73	38.62	-----	-----	Average	0.00
5 15443.410	16.82	38.96	53.92	35.11	36.97	54.00	-17.03	Average	0.00
6 pp18000.000	18.35	42.60	54.30	33.55	40.20	54.00	-13.80	Average	0.00

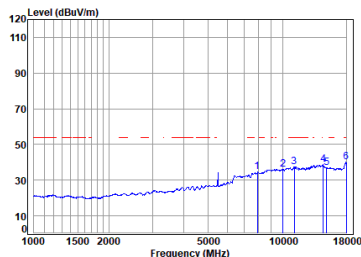
11n_20M_TX_CH_116_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7966.832	11.55	37.27	55.92	53.11	46.01	68.20	-22.19	Peak	0.00
2 8917.462	12.21	38.43	54.79	53.03	48.88	68.20	-19.32	Peak	0.00
3 10453.970	13.63	39.25	53.55	49.86	49.19	68.20	-19.01	Peak	0.00
4 pp13173.560	15.64	40.10	53.85	48.62	50.51	68.20	-17.69	Peak	0.00
5 15896.290	17.27	38.41	53.74	48.17	50.11	74.00	-23.89	Peak	0.00
6 17844.590	18.21	41.56	54.24	46.08	51.61	74.00	-22.39	Peak	0.00

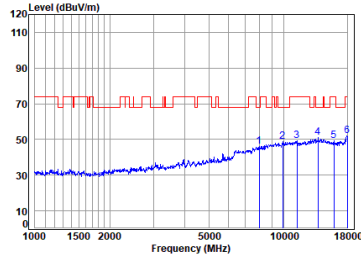
11n_20M_TX_CH_116_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7920.911	11.54	37.30	55.94	41.64	34.54	-----	-----	Average	0.00
2 10010.420	13.04	38.90	53.60	37.90	36.24	-----	-----	Average	0.00
3 11140.310	14.70	39.38	53.46	36.85	37.47	54.00	-16.53	Average	0.00
4 14533.910	16.79	40.20	54.10	35.79	38.68	-----	-----	Average	0.00
5 15046.850	16.65	39.45	54.00	34.94	36.96	-----	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.30	33.64	40.29	54.00	-13.71	Average	0.00

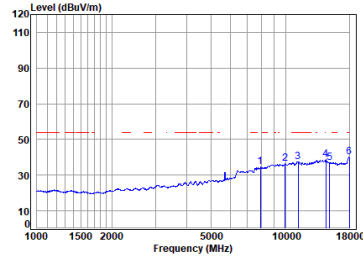
11n_20M_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5700 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7989.893	11.56	37.22	55.91	53.09	45.96	68.20	-22.24	Peak	0.00
2 9895.349	12.81	38.59	53.71	51.08	48.77	68.20	-19.43	Peak	0.00
3 11302.488	14.63	39.40	53.41	48.66	49.28	74.00	-24.72	Peak	0.00
4 pp13757.278	16.15	40.30	54.03	48.69	51.11	68.20	-17.09	Peak	0.00
5 15896.298	17.27	38.41	53.74	47.31	49.25	74.00	-24.75	Peak	0.00
6 18000.000	18.35	42.60	54.38	45.44	52.09	74.00	-21.91	Peak	0.00

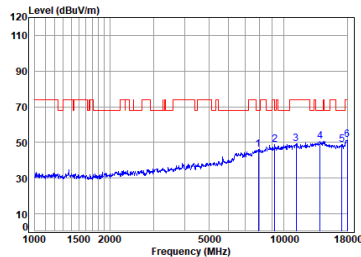
11n_20M_TX_CH_140_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5700 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7928.911	11.54	37.30	55.94	41.62	34.52	-----	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	38.35	36.32	-----	-----	Average	0.00
3 11204.900	14.75	39.50	53.44	36.61	37.42	54.00	-16.58	Average	0.00
4 14491.960	17.07	40.22	54.10	35.68	38.87	54.00	-15.13	Average	0.00
5 15046.850	16.65	39.45	54.08	34.98	36.92	-----	-----	Average	0.00
6 pp18000.000	18.35	42.60	54.38	33.58	40.23	54.00	-13.77	Average	0.00

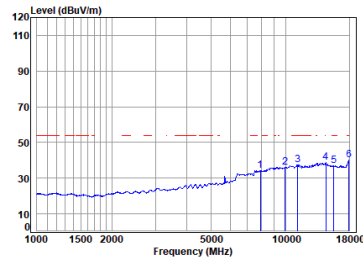
11n_20M_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5700 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7898.049	11.54	37.29	55.96	53.34	46.21	68.20	-21.99	Peak	0.00
2 9205.540	12.31	38.52	54.46	52.23	48.60	68.20	-19.60	Peak	0.00
3 11204.900	14.75	39.50	53.44	48.65	49.46	74.00	-24.54	Peak	0.00
4 pp13997.930	16.46	40.59	54.10	47.73	50.68	68.20	-17.52	Peak	0.00
5 17136.928	18.23	38.94	53.96	45.72	48.93	68.20	-19.27	Peak	0.00
6 18000.000	18.35	42.60	54.38	44.72	51.37	74.00	-22.63	Peak	0.00

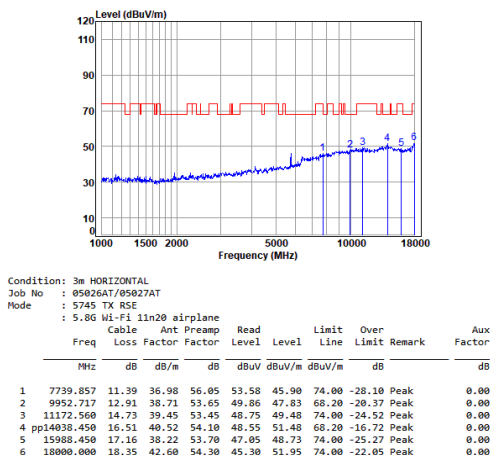
11n_20M_TX_CH_140_Vertical-Avg



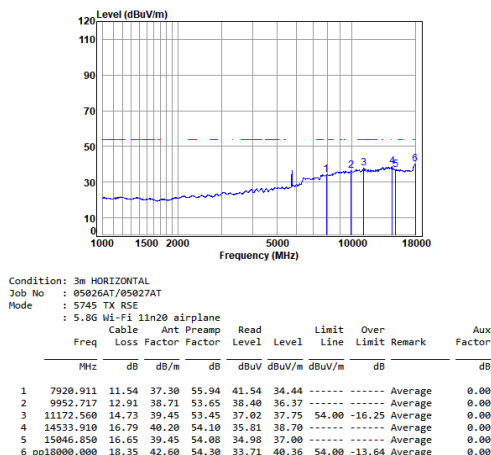
Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5700 TX RSE
: 5G Wi-Fi 11n20 airplane

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 7928.911	11.54	37.30	55.94	41.37	34.27	-----	-----	Average	0.00
2 9952.717	12.91	38.71	53.65	38.22	36.19	-----	-----	Average	0.00
3 11172.560	14.73	39.45	53.45	36.80	37.53	54.00	-16.47	Average	0.00
4 14491.960	17.07	40.22	54.10	35.70	38.89	54.00	-15.11	Average	0.00
5 15622.990	17.19	38.75	53.85	34.88	36.97	54.00	-17.03	Average	0.00
6 pp17948.050	18.30	42.29	54.28	33.91	40.22	54.00	-13.78	Average	0.00

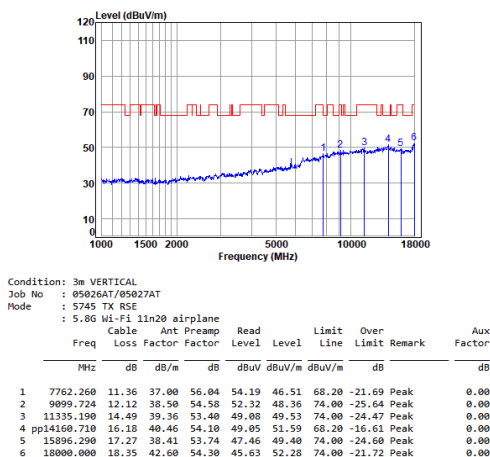
11n_20M_TX_CH_149_Horizontal-Peak



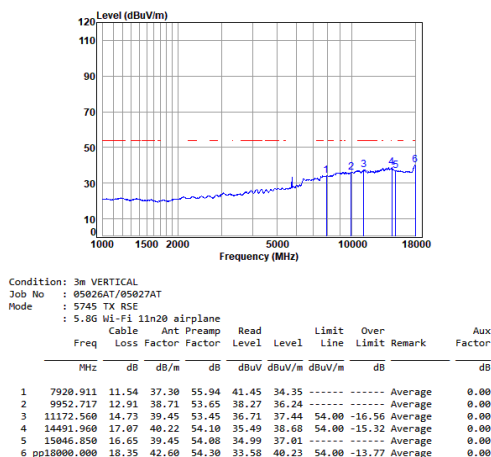
11n_20M_TX_CH_149_Horizontal-Avg



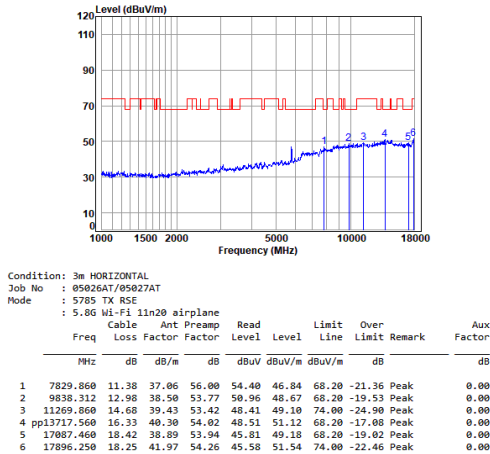
11n_20M_TX_CH_149_Vertical-Peak



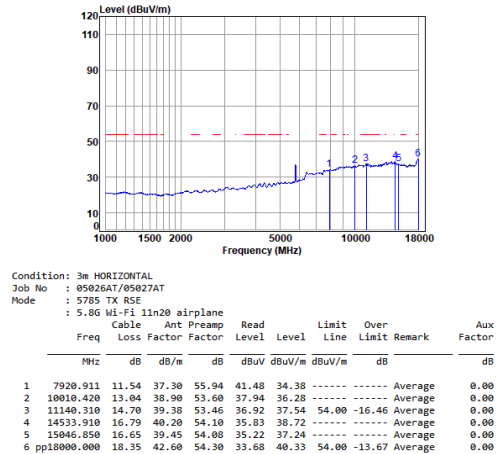
11n_20M_TX_CH_149_Vertical-Avg



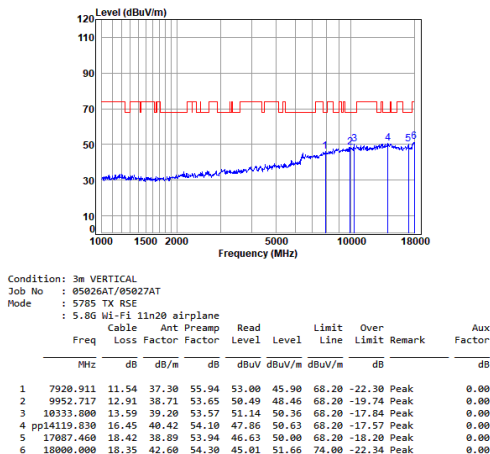
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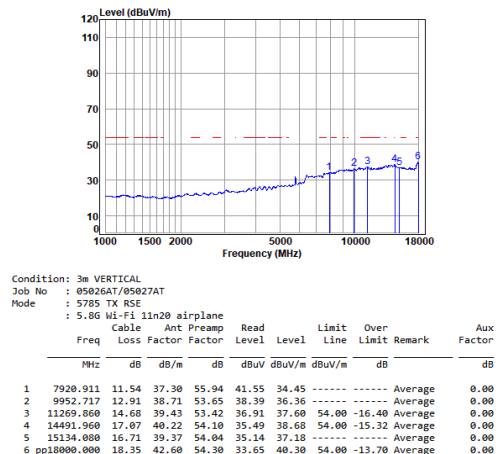
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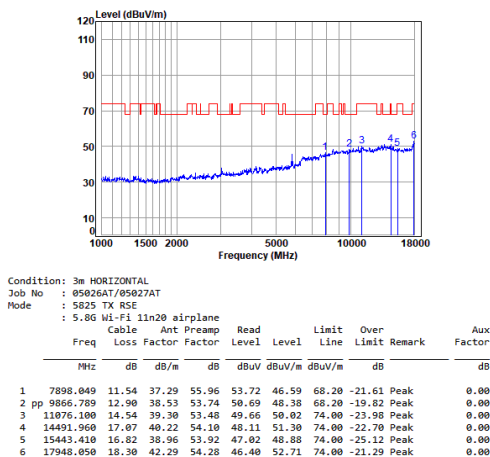
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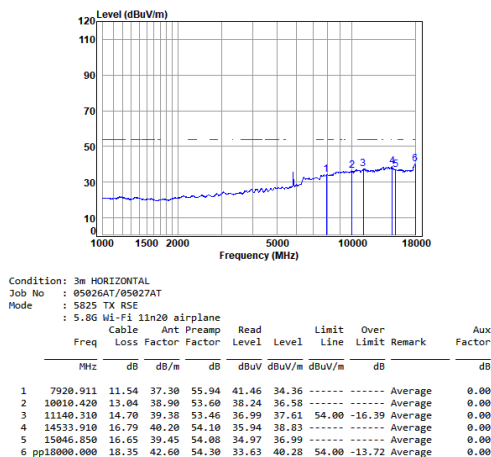
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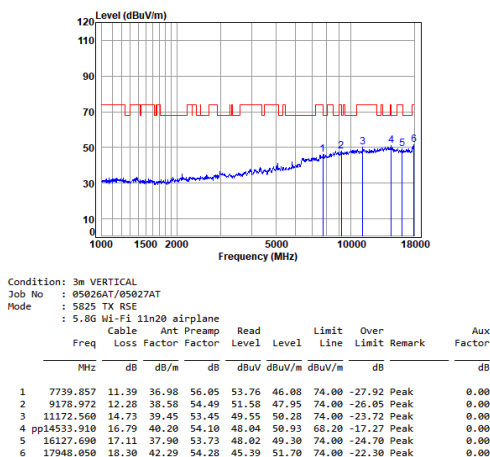
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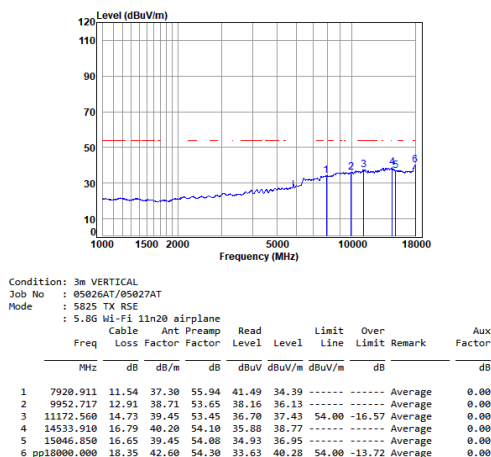
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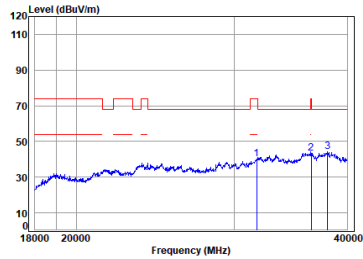
11n_20M_TX_CH_165_Vertical-Peak



11n_20M_TX_CH_165_Vertical-Avg



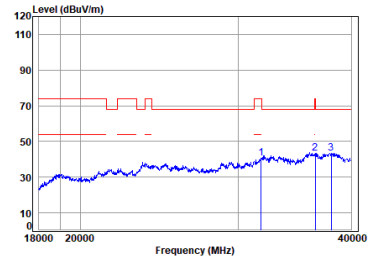
11n_20M_TX_CH_36_Horizontal



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

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 31731.570	7.84	40.79	51.52	52.66	40.23	74.00	-33.77	Peak	-9.54
2 36490.470	7.91	42.10	49.59	52.44	43.32	74.00	-30.68	Peak	-9.54
3 pp38037.540	7.85	42.05	50.22	54.15	44.29	68.20	-23.91	Peak	-9.54

11n_20M_TX_CH_36_Vertical



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

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 31756.920	7.85	40.80	51.49	53.16	40.78	74.00	-33.22	Peak	-9.54
2 36490.470	7.91	42.10	49.59	52.40	43.28	74.00	-30.72	Peak	-9.54
3 pp38007.100	7.87	42.01	50.20	53.40	43.54	68.20	-24.66	Peak	-9.54



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

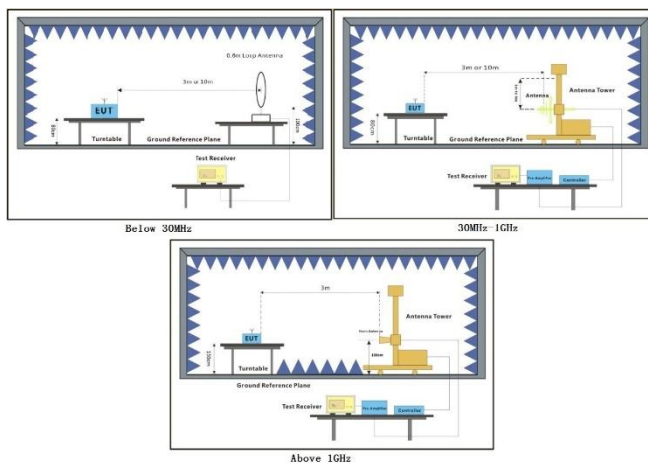
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode (U-NII-1) _Keep the EUT(drone) 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	14	TX mode (U-NII-2A) _Keep the EUT(drone) 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	15	TX mode (U-NII-2C) _Keep the EUT(drone) 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	16	TX mode (U-NII-3) _Keep the EUT(drone) 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.



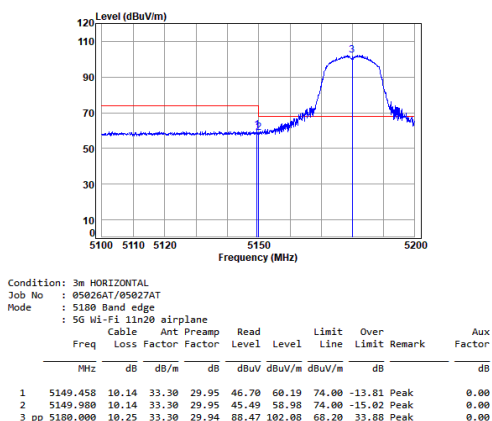
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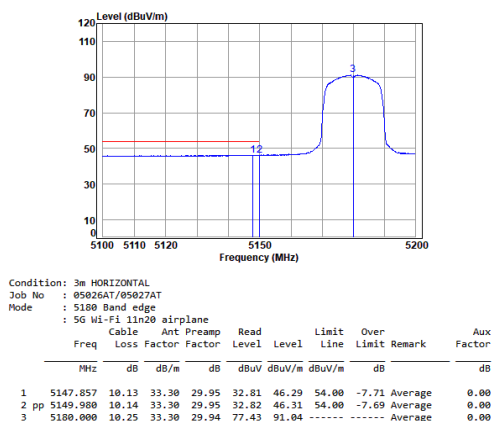
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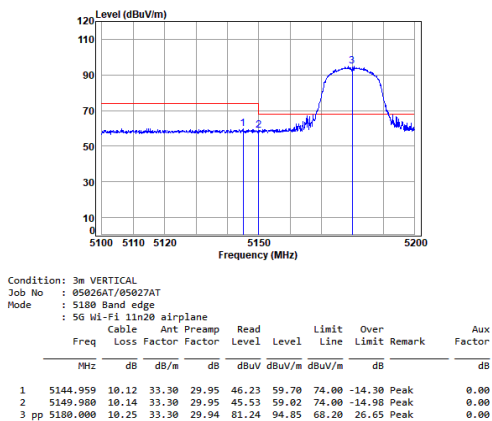
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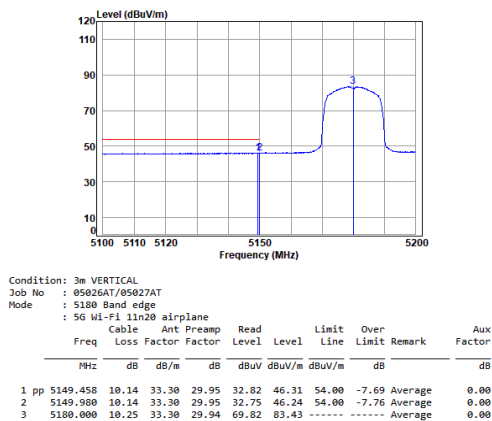
11n_HT(20M)_TX_CH_36_Horizontal-Avg



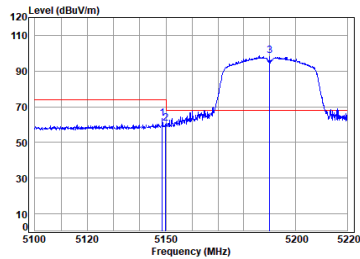
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11n_HT(20M)_TX_CH_36_Vertical-Avg



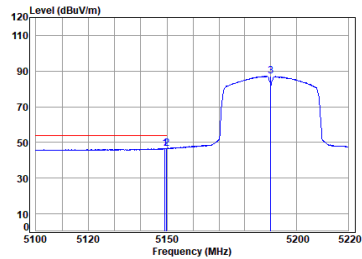
11n_HT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5190 Band edge
: 5G Wi-Fi 11n40 airplane

	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	5148.623	10.14	33.30	29.95	49.74	63.23	74.00	-10.77	Peak	0.00
2	5149.980	10.14	33.30	29.95	47.30	60.79	74.00	-13.21	Peak	0.00
3 pp	5190.000	10.29	33.30	29.94	84.85	98.50	68.20	30.30	Peak	0.00

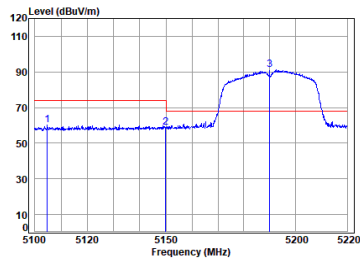
11n_HT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5190 Band edge
: 5G Wi-Fi 11n40 airplane

	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	5149.222	10.14	33.30	29.95	33.22	46.71	54.00	-7.29	Average	0.00
2 pp	5149.980	10.14	33.30	29.95	33.23	46.72	54.00	-7.77	Average	0.00
3	5190.000	10.29	33.30	29.94	73.61	87.26	68.20	19.06	Average	0.00

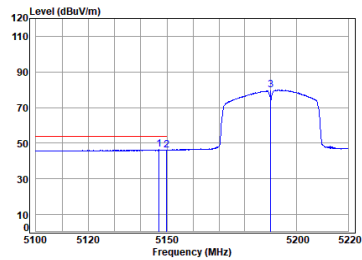
11n_HT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5190 Band edge
: 5G Wi-Fi 11n40 airplane

	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	5104.747	9.97	33.30	29.97	47.00	60.30	74.00	-13.70	Peak	0.00
2	5149.980	10.14	33.30	29.95	45.38	58.87	74.00	-15.13	Peak	0.00
3 pp	5190.000	10.29	33.30	29.94	77.49	91.14	68.20	22.94	Peak	0.00

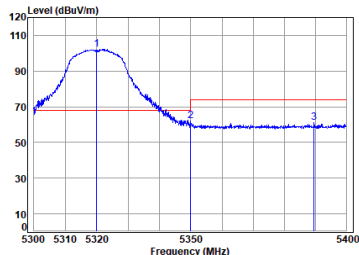
11n_HT(40M)_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5190 Band edge
: 5G Wi-Fi 11n40 airplane

	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 pp	5147.067	10.13	33.30	29.95	32.87	46.35	54.00	-7.65	Average	0.00
2	5149.980	10.14	33.30	29.95	32.74	46.23	54.00	-7.77	Average	0.00
3	5190.000	10.29	33.30	29.94	66.21	79.86	68.20	11.66	Average	0.00

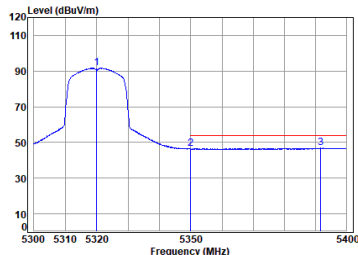
11n_HT(20M)_TX_CH_64_Horizontal-Peak



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

Freq	Cable Loss	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 pp 5320.000	10.35	33.06	29.90	88.67	102.18	68.20	33.98	Peak	0.00
2 5350.020	10.45	33.00	29.89	48.30	61.86	74.00	-12.14	Peak	0.00
3 5389.613	10.58	33.08	29.88	47.31	61.09	74.00	-12.91	Peak	0.00

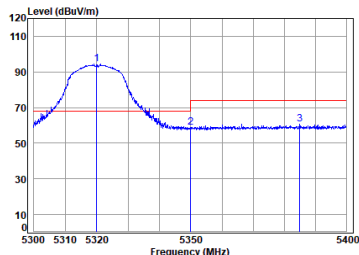
11n_HT(20M)_TX_CH_64_Horizontal-Avg



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

Freq	Cable Loss	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 5320.000	10.35	33.06	29.90	78.20	91.71	-----	-----	Average	0.00
2 5350.020	10.45	33.00	29.89	32.85	46.41	54.00	-7.59	Average	0.00
3 pp 5391.830	10.59	33.08	29.88	33.05	46.84	54.00	-7.16	Average	0.00

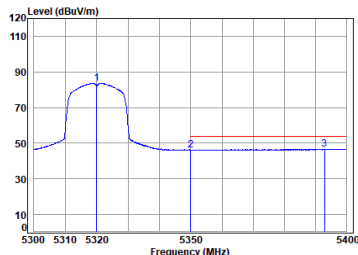
11n_HT(20M)_TX_CH_64_Vertical-Peak



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

Freq	Cable Loss	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 pp 5320.000	10.35	33.06	29.90	80.95	94.46	68.20	26.26	Peak	0.00
2 5350.020	10.45	33.00	29.89	45.43	58.99	74.00	-15.01	Peak	0.00
3 5385.082	10.57	33.07	29.88	47.01	60.77	74.00	-13.23	Peak	0.00

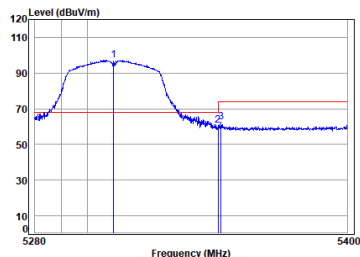
11n_HT(20M)_TX_CH_64_Vertical-Avg



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

Freq	Cable Loss	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 5320.000	10.35	33.06	29.90	70.08	83.59	-----	-----	Average	0.00
2 5350.020	10.45	33.00	29.89	32.56	46.12	54.00	-7.88	Average	0.00
3 pp 5393.040	10.60	33.09	29.88	32.87	46.68	54.00	-7.32	Average	0.00

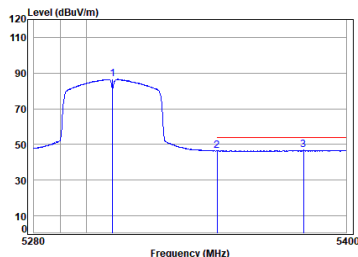
11n_HT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5310 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 pp 5310.000	10.31	33.08	29.90	83.82	97.31	68.20	29.11	Peak	0.00
2 5350.020	10.45	33.00	29.89	47.33	60.89	74.00	-13.11	Peak	0.00
3 5351.195	10.45	33.00	29.89	48.75	62.31	74.00	-11.69	Peak	0.00

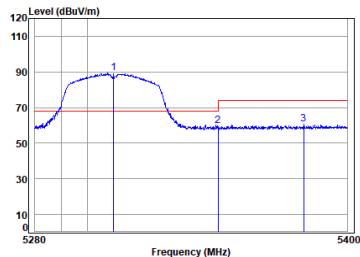
11n_HT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5310 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 5310.000	10.31	33.08	29.90	73.04	86.53	-----	-----	Average	0.00
2 5350.020	10.45	33.00	29.89	32.95	46.51	54.00	-7.49	Average	0.00
3 pp 5383.400	10.56	33.07	29.88	33.13	46.88	54.00	-7.12	Average	0.00

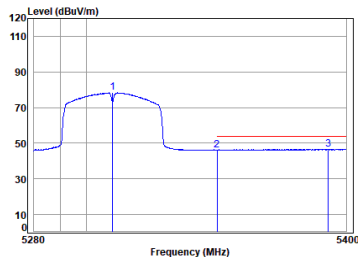
11n_HT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5310 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 pp 5310.000	10.31	33.08	29.90	75.84	89.33	68.20	21.13	Peak	0.00
2 5350.020	10.45	33.00	29.89	46.20	59.76	74.00	-14.24	Peak	0.00
3 5383.158	10.56	33.07	29.88	46.82	60.57	74.00	-13.43	Peak	0.00

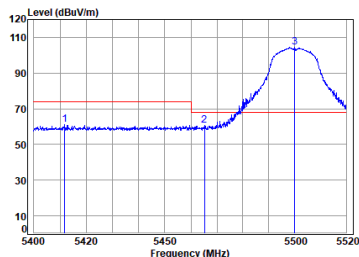
11n_HT(40M)_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5310 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 5310.000	10.31	33.08	29.90	64.80	78.29	-----	-----	Average	0.00
2 5350.020	10.45	33.00	29.89	32.61	46.17	54.00	-7.83	Average	0.00
3 pp 5393.087	10.60	33.09	29.88	32.93	46.74	54.00	-7.26	Average	0.00

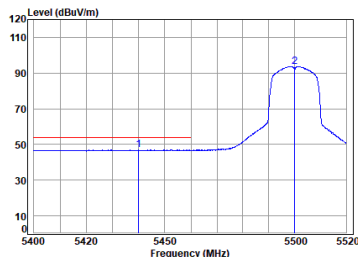
11n_HT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 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	5411.763	10.62	33.10	29.87	47.14	60.99	74.00	-13.01	Peak	0.00
2	5465.193	10.59	33.10	29.85	46.80	60.64	68.20	-7.56	Peak	0.00
3 pp	5500.000	10.58	33.10	29.84	98.80	104.64	68.20	36.44	Peak	0.00

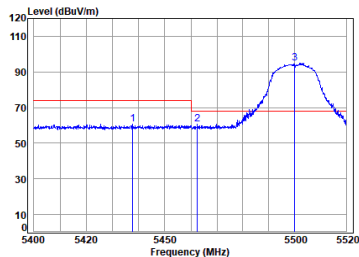
11n_HT(20M)_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5500 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 pp	5448.026	10.60	33.10	29.86	33.08	46.92	54.00	-7.08	Average	0.00
2	5500.000	10.58	33.10	29.84	79.92	93.76	68.20	25.56	Average	0.00

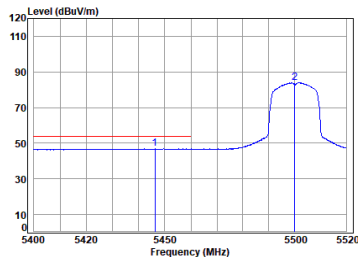
11n_HT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 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	5437.755	10.60	33.10	29.86	46.93	60.77	74.00	-13.23	Peak	0.00
2	5462.551	10.59	33.10	29.85	46.77	60.61	68.20	-7.59	Peak	0.00
3 pp	5500.000	10.58	33.10	29.84	81.09	94.93	68.20	26.73	Peak	0.00

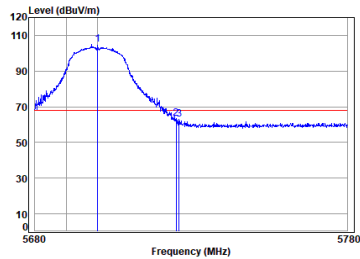
11n_HT(20M)_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5500 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 pp	5446.247	10.60	33.10	29.86	33.08	46.92	54.00	-7.08	Average	0.00
2	5500.000	10.58	33.10	29.84	70.12	83.96	68.20	15.76	Average	0.00

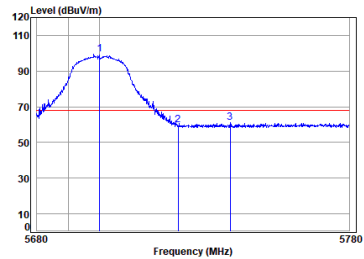
11n_HT(20M)_TX_CH_140_Horizontal-Peak



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

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 pp 5700.000	10.56	33.70	29.78	90.37	104.85	68.20	36.65	Peak	0.00
2 5725.000	10.68	33.75	29.78	48.71	63.36	68.20	-4.84	Peak	0.00
3 5725.903	10.68	33.75	29.78	48.25	62.90	68.20	-5.30	Peak	0.00

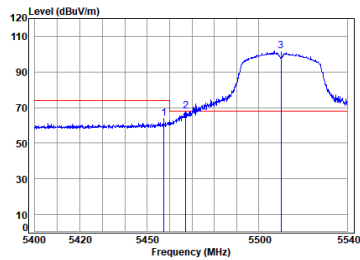
11n_HT(20M)_TX_CH_140_Vertical-Peak



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

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 pp 5700.000	10.56	33.70	29.78	85.16	99.64	68.20	31.44	Peak	0.00
2 5725.000	10.68	33.75	29.78	45.05	59.70	68.20	-8.50	Peak	0.00
3 5741.694	10.75	33.78	29.77	46.29	61.05	68.20	-7.15	Peak	0.00

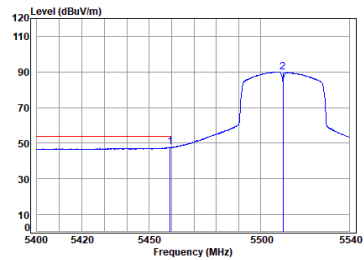
11n_HT(40M)_TX_CH_102_Horizontal-Peak



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

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 5457.386	10.60	33.10	29.86	50.22	64.06	74.00	-9.94	Peak	0.00
2 5467.173	10.59	33.10	29.85	54.06	67.90	68.20	-0.30	Peak	0.00
3 pp 5510.000	10.56	33.10	29.84	87.76	101.58	68.20	33.38	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 airplane

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 pp 5459.342	10.60	33.10	29.86	33.92	47.76	54.00	-6.24	Average	0.00
2 5510.000	10.56	33.10	29.84	76.26	90.08	-----	-----	Average	0.00



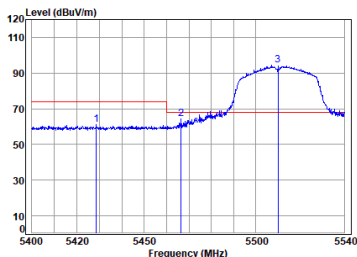
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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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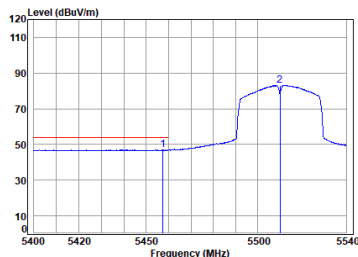
11n_HT(40M)_TX_CH_102_Vertical-Peak



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

	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	5428.687	10.61	33.10	29.86	47.44	61.29	74.00	-12.71	Peak	0.00
2	5466.473	10.59	33.10	29.85	50.47	64.31	68.20	-3.89	Peak	0.00
3 pp	5510.000	10.56	33.10	29.84	88.50	94.32	68.20	26.12	Peak	0.00

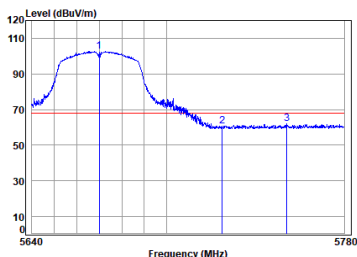
11n_HT(40M)_TX_CH_102_Vertical-Avg



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

	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	5457.386	10.60	33.10	29.86	33.17	47.01	54.00	-6.99	Average	0.00
2	5510.000	10.56	33.10	29.84	69.35	83.17	68.20	14.97	Average	0.00

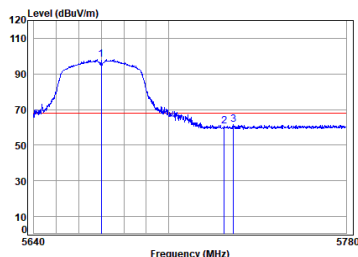
11n_HT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5670 Band edge
: 5G Wi-Fi 11n40 airplane

	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	5670.000	10.52	33.52	29.79	88.60	102.85	68.20	34.65	Peak	0.00
2	5725.000	10.68	33.75	29.78	46.20	60.05	68.20	-7.35	Peak	0.00
3	5753.981	10.81	33.82	29.77	47.17	62.03	68.20	-6.17	Peak	0.00

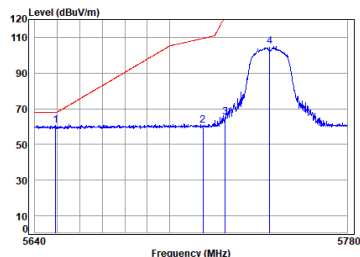
11n_HT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5670 Band edge
: 5G Wi-Fi 11n40 airplane

	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	5670.000	10.52	33.52	29.79	83.78	98.03	68.20	29.83	Peak	0.00
2	5725.000	10.68	33.75	29.78	46.03	60.68	68.20	-7.52	Peak	0.00
3	5729.063	10.69	33.76	29.78	46.82	61.49	68.20	-6.71	Peak	0.00

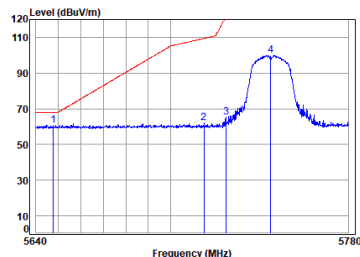
11n_HT(20M)_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5745 Band edge

	Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	Factor	Factor	Factor	Level	dBuV/m	dBuV/m	dB	Factor
1	5649.135	10.48	33.40	29.80	46.82	60.90	68.20	-7.30	Peak	0.00
2	5715.000	10.63	33.73	29.78	46.32	60.90	109.40	-48.50	Peak	0.00
3	5725.000	10.68	33.75	29.78	50.72	65.37	122.20	-56.83	Peak	0.00
4	5745.000	10.77	33.79	29.77	90.25	105.04	-----	-----	Peak	0.00

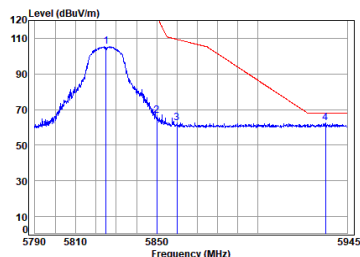
11n_HT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5745 Band edge

	Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	Factor	Factor	Factor	Level	dBuV/m	dBuV/m	dB	Factor
1	5647.750	10.48	33.40	29.80	46.80	60.88	68.20	-7.32	Peak	0.00
2	5715.000	10.63	33.73	29.78	47.37	61.95	109.40	-47.45	Peak	0.00
3	5725.000	10.68	33.75	29.78	50.44	65.09	122.20	-57.11	Peak	0.00
4	5745.000	10.77	33.79	29.77	85.23	100.02	-----	-----	Peak	0.00

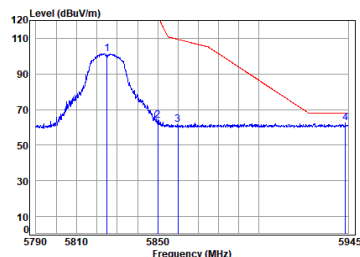
11n_HT(20M)_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 05026AT/05027AT
Mode : 5825 Band edge

	Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	Factor	Factor	Factor	Level	dBuV/m	dBuV/m	dB	Factor
1	5825.000	10.99	34.10	29.75	90.13	105.47	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	51.18	66.59	122.20	-55.61	Peak	0.00
3	5860.000	10.94	34.22	29.74	47.04	62.46	109.40	-46.94	Peak	0.00
4	5934.173	10.86	34.23	29.72	46.94	62.31	68.20	-5.89	Peak	0.00

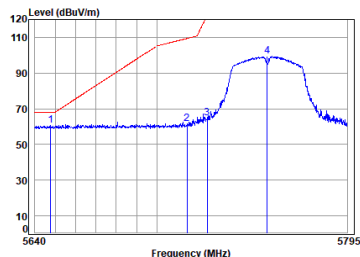
11n_HT(20M)_TX_CH_165_Vertical



Condition: 3m VERTICAL
Job No : 05026AT/05027AT
Mode : 5825 Band edge

	Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	Factor	Factor	Factor	Level	dBuV/m	dBuV/m	dB	Factor
1	5825.000	10.99	34.10	29.75	86.11	101.45	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	48.40	63.81	122.20	-58.39	Peak	0.00
3	5860.000	10.94	34.22	29.74	46.18	61.60	109.40	-47.80	Peak	0.00
4	5943.586	10.85	34.21	29.72	47.17	62.51	68.20	-5.69	Peak	0.00

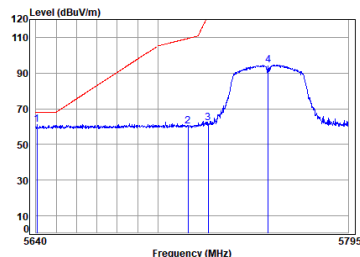
11n_HT(40M)_TX_CH_151_Horizontal



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

	Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
1	5647.650	10.48	33.40	29.80	46.48	60.56	68.20	-7.64	Peak	0.00
2	5715.000	10.63	33.73	29.78	47.06	61.64	109.40	-47.76	Peak	0.00
3	5725.000	10.68	33.75	29.78	50.08	64.73	122.20	-57.47	Peak	0.00
4	5755.000	10.81	33.82	29.77	84.75	99.61	-----	-----	Peak	0.00

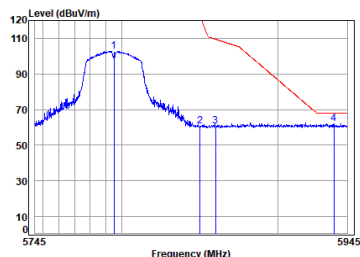
11n_HT(40M)_TX_CH_151_Vertical



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

	Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
1	5640.459	10.47	33.40	29.80	47.08	61.15	68.20	-7.05	Peak	0.00
2	5715.000	10.63	33.73	29.78	45.63	60.21	109.40	-49.19	Peak	0.00
3	5725.000	10.68	33.75	29.78	47.27	61.92	122.20	-60.28	Peak	0.00
4	5755.000	10.81	33.82	29.77	79.67	94.53	-----	-----	Peak	0.00

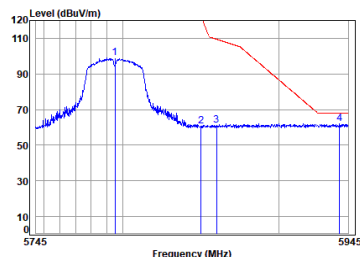
11n_HT(40M)_TX_CH_159_Horizontal



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

	Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
1	5795.000	11.00	33.98	29.76	87.46	102.68	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	45.23	60.64	122.20	-61.56	Peak	0.00
3	5860.000	10.94	34.22	29.74	45.35	60.77	109.40	-48.63	Peak	0.00
4	5936.258	10.86	34.23	29.72	46.67	62.04	68.20	-6.16	Peak	0.00

11n_HT(40M)_TX_CH_159_Vertical



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

	Freq	Loss	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
1	5795.000	11.00	33.98	29.76	83.73	98.95	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	45.17	60.58	122.20	-61.62	Peak	0.00
3	5860.000	10.94	34.22	29.74	45.62	61.04	109.40	-48.36	Peak	0.00
4	5939.306	10.86	34.22	29.72	46.58	61.94	68.20	-6.26	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	13	TX mode (U-NII-1)_Keep the EUT(drone) 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	14	TX mode (U-NII-2A)_Keep the EUT(drone) 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	15	TX mode (U-NII-2C)_Keep the EUT(drone) 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	16	TX mode (U-NII-3)_Keep the EUT(drone) 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.



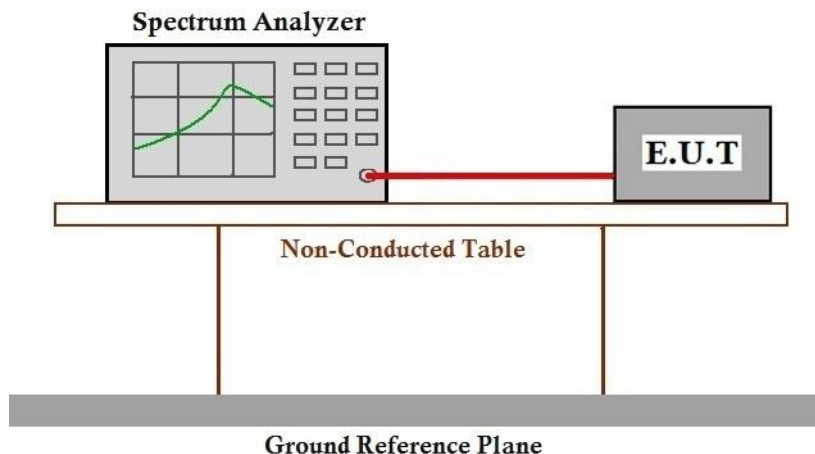
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7.4.3 Test Setup Diagram



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	13	TX mode (U-NII-1)_Keep the EUT(drone) 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	14	TX mode (U-NII-2A)_Keep the EUT(drone) 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	15	TX mode (U-NII-2C)_Keep the EUT(drone) 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	16	TX mode (U-NII-3)_Keep the EUT(drone) 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.



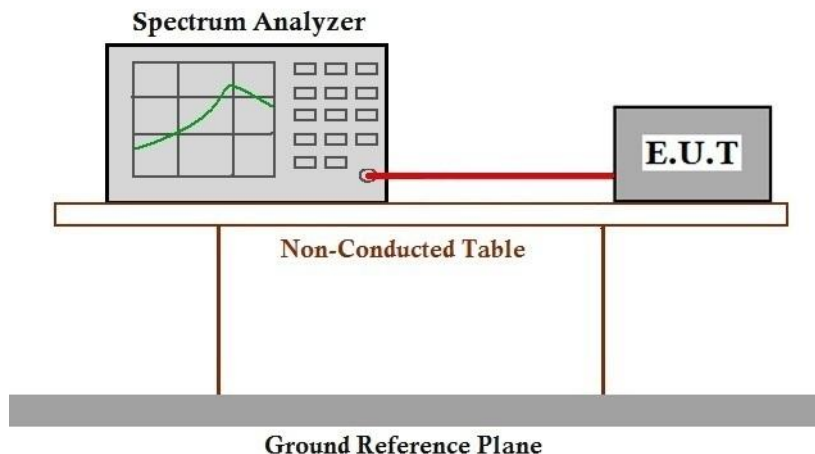
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7.5.3 Test Setup Diagram



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	13	TX mode (U-NII-1)_Keep the EUT(drone) 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	14	TX mode (U-NII-2A)_Keep the EUT(drone) 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	15	TX mode (U-NII-2C)_Keep the EUT(drone) 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	16	TX mode (U-NII-3)_Keep the EUT(drone) 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.



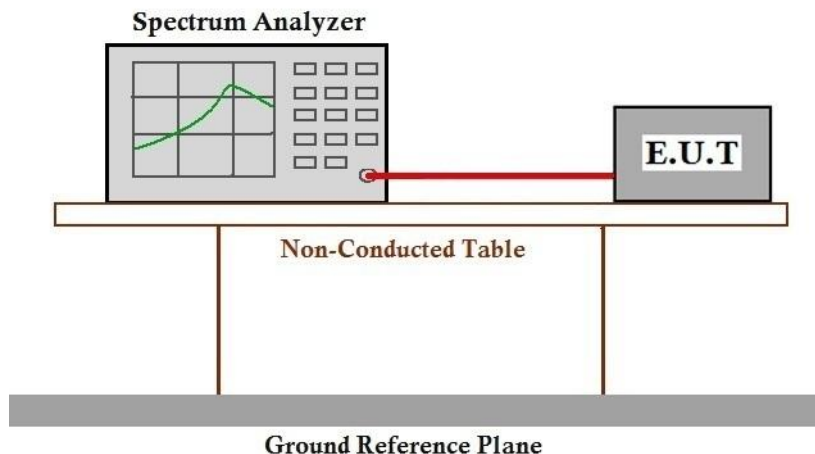
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7.6.3 Test Setup Diagram



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

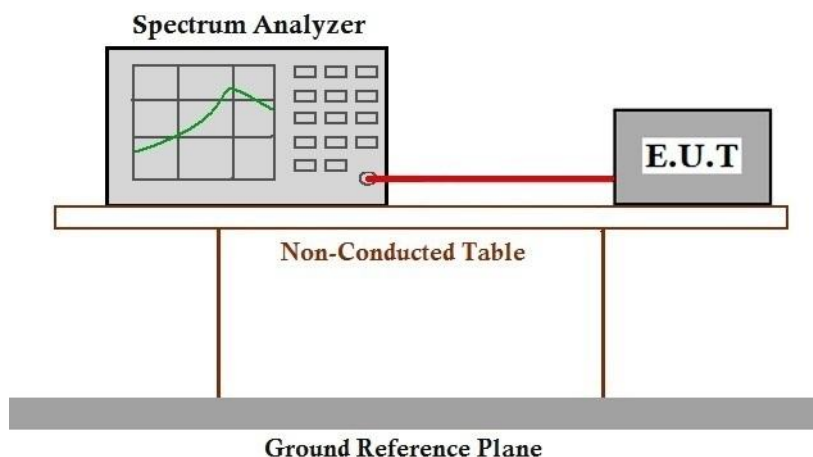
Humidity: 55.7 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (U-NII-3) _Keep the EUT(drone) 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

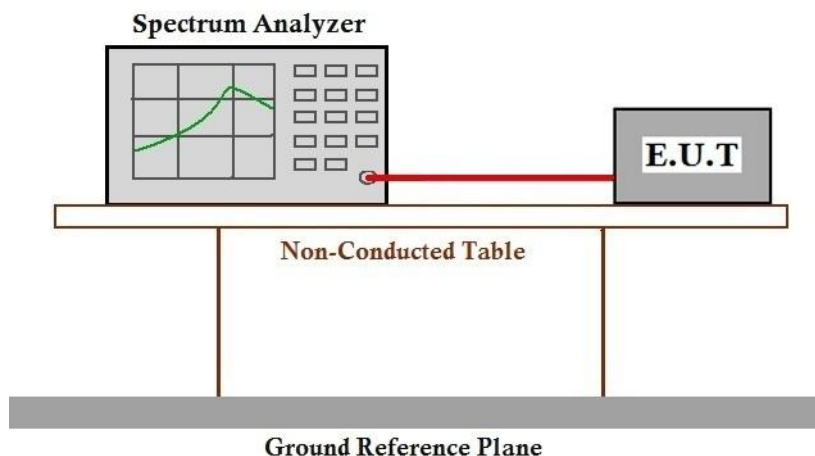
Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode (U-NII-1)_Keep the EUT(drone) 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	14	TX mode (U-NII-2A)_Keep the EUT(drone) 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	15	TX mode (U-NII-2C)_Keep the EUT(drone) 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	16	TX mode (U-NII-3)_Keep the EUT(drone) 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.



7.8.3 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

Please Refer to Appendix for Details

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	13	TX mode (U-NII-1)_Keep the EUT(drone) 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	14	TX mode (U-NII-2A)_Keep the EUT(drone) 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	15	TX mode (U-NII-2C)_Keep the EUT(drone) 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	16	TX mode (U-NII-3)_Keep the EUT(drone) 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.



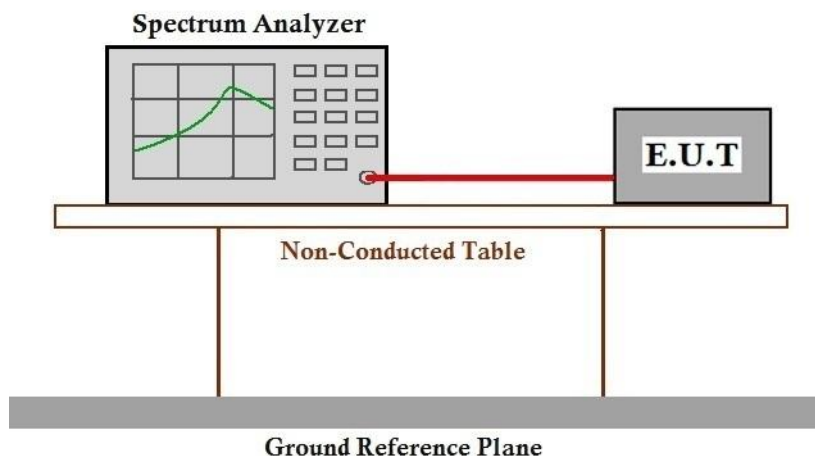
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

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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	13	TX mode (U-NII-1)_Keep the EUT(drone) 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	14	TX mode (U-NII-2A)_Keep the EUT(drone) 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	15	TX mode (U-NII-2C)_Keep the EUT(drone) 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	16	TX mode (U-NII-3)_Keep the EUT(drone) 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.



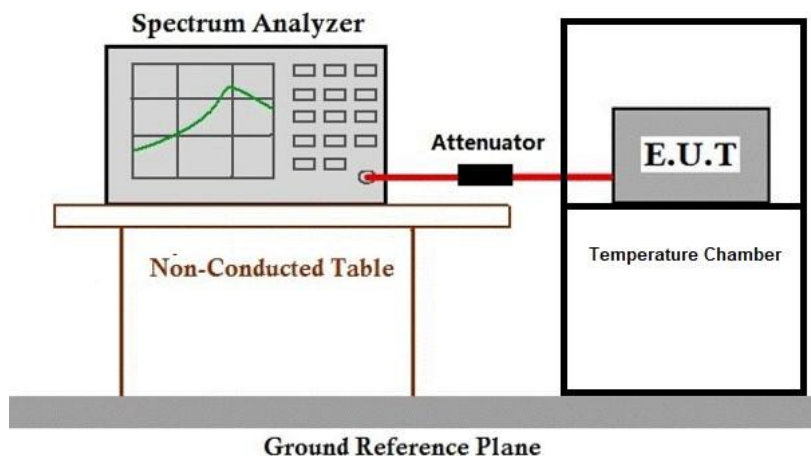
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7.10.3 Test Setup Diagram



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

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_ external and internal photos for SZCR2511005026AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

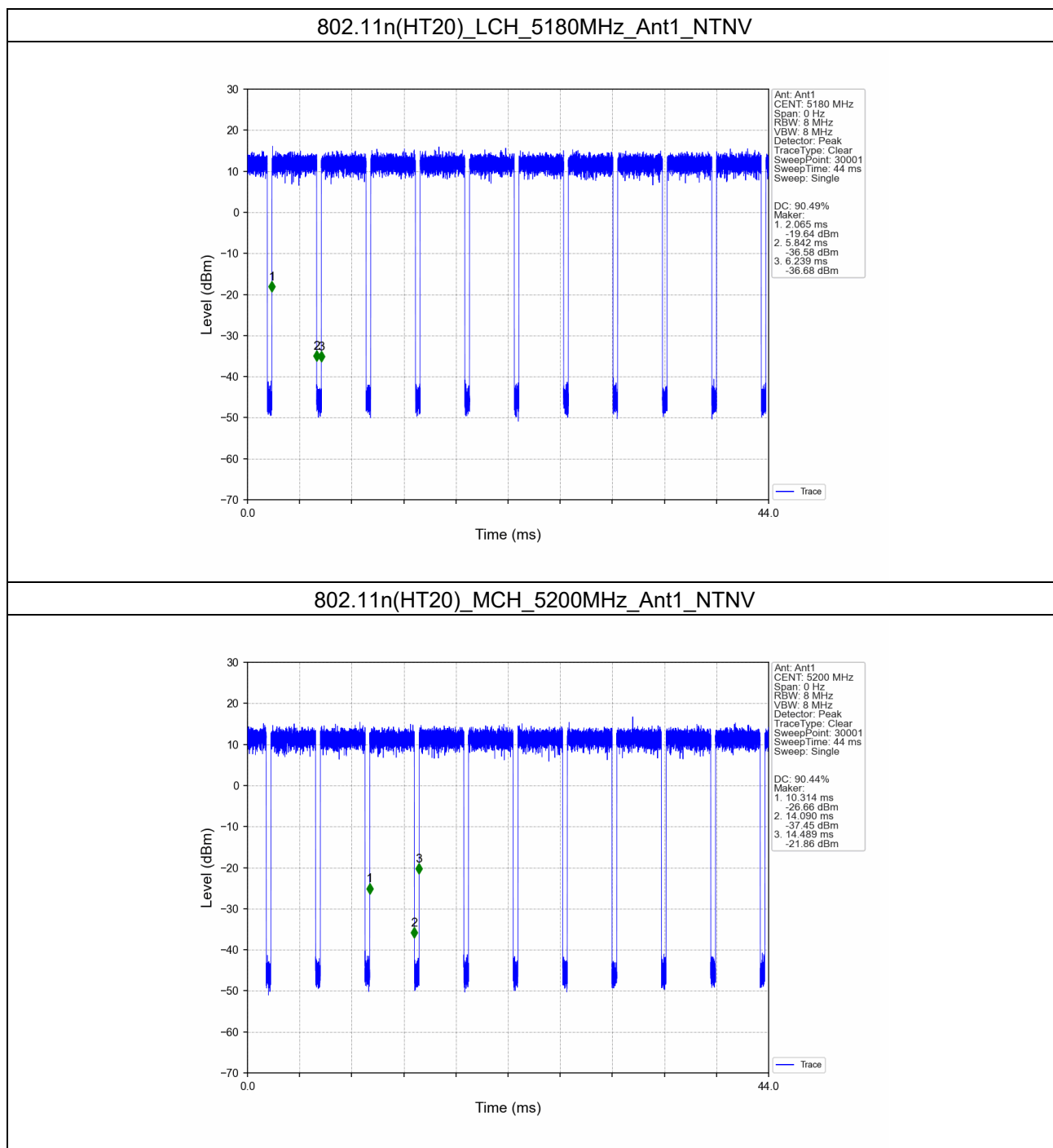
1.1.1 Ant1

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	3.777	4.174	90.49	0.43	0.19
		5200	3.776	4.175	90.44	0.44	0.23
		5240	3.777	4.176	90.45	0.44	0.23
		5260	3.776	4.175	90.44	0.44	0.23
		5300	3.777	4.175	90.47	0.44	0.23
		5320	3.777	4.176	90.45	0.44	0.23
		5500	3.776	4.175	90.44	0.44	0.23
		5580	3.776	4.175	90.44	0.44	0.23
		5700	3.776	4.175	90.44	0.44	0.23
		5745	3.777	4.176	90.45	0.44	0.23
		5785	3.776	4.175	90.44	0.44	0.23
		5825	3.777	4.175	90.47	0.44	0.23
802.11n (HT40)	SISO	5190	1.839	2.239	82.13	0.85	0.36
		5230	1.839	2.239	82.13	0.85	0.36
		5270	1.839	2.239	82.13	0.85	0.36
		5310	1.840	2.240	82.14	0.85	0.36
		5510	1.839	2.239	82.13	0.85	0.35
		5550	1.839	2.239	82.13	0.85	0.35
		5670	1.839	2.239	82.13	0.85	0.36
		5755	1.839	2.239	82.13	0.85	0.43
		5795	1.840	2.240	82.14	0.85	0.36

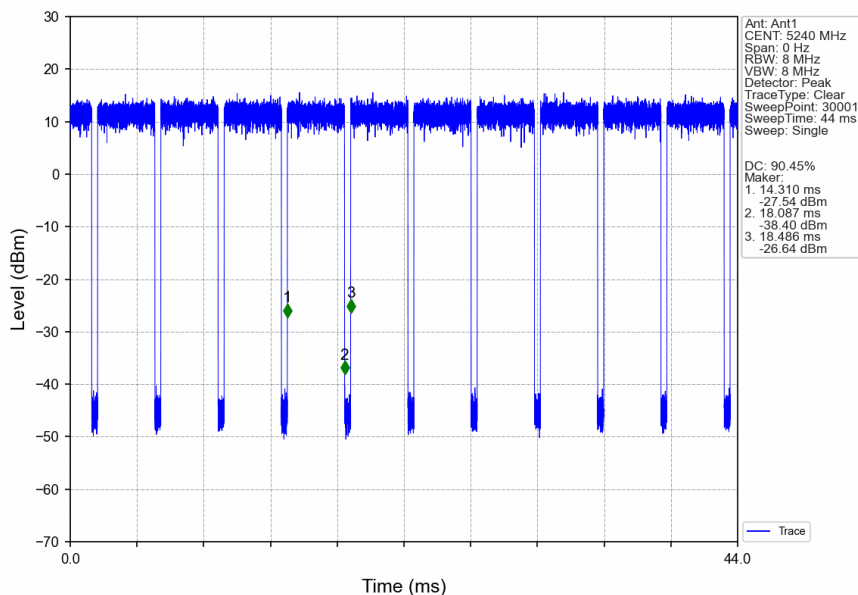


1.2 Test Graph

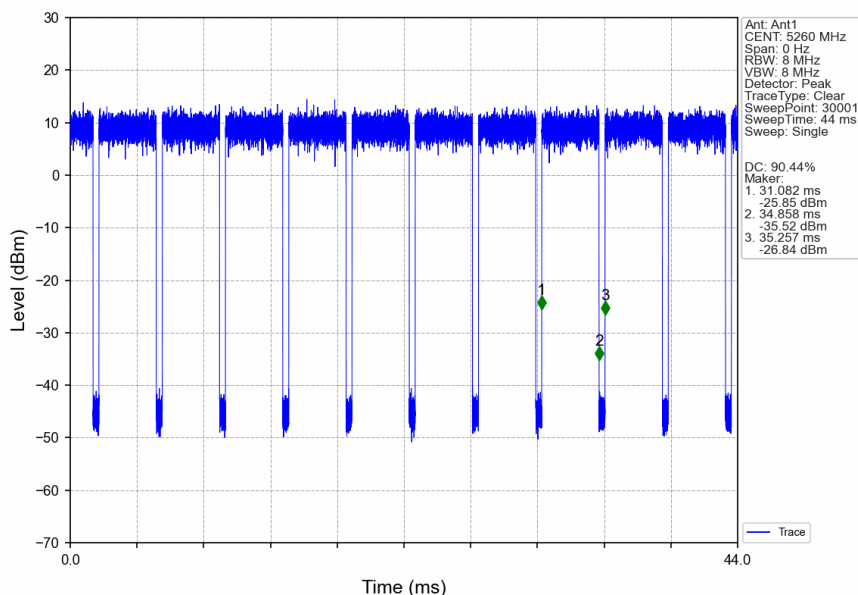
1.2.1 Ant1



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV

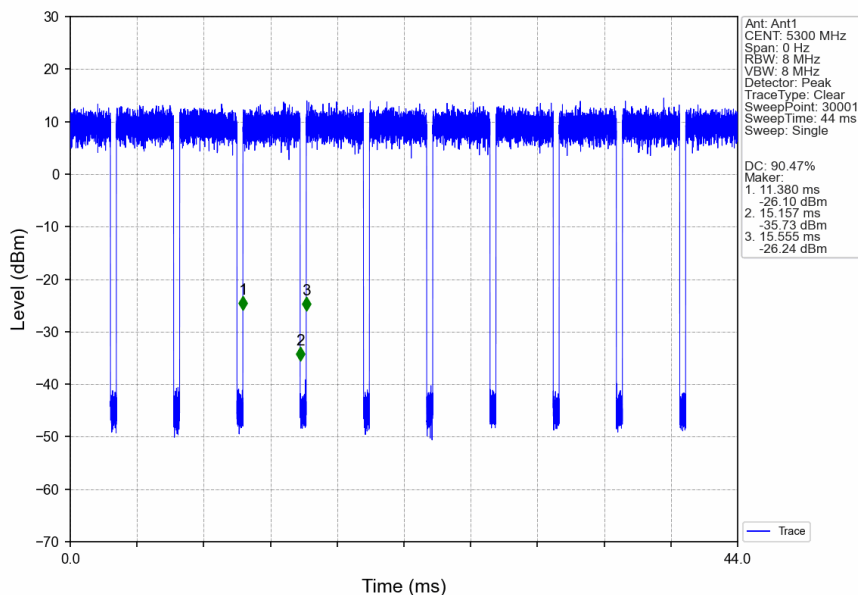


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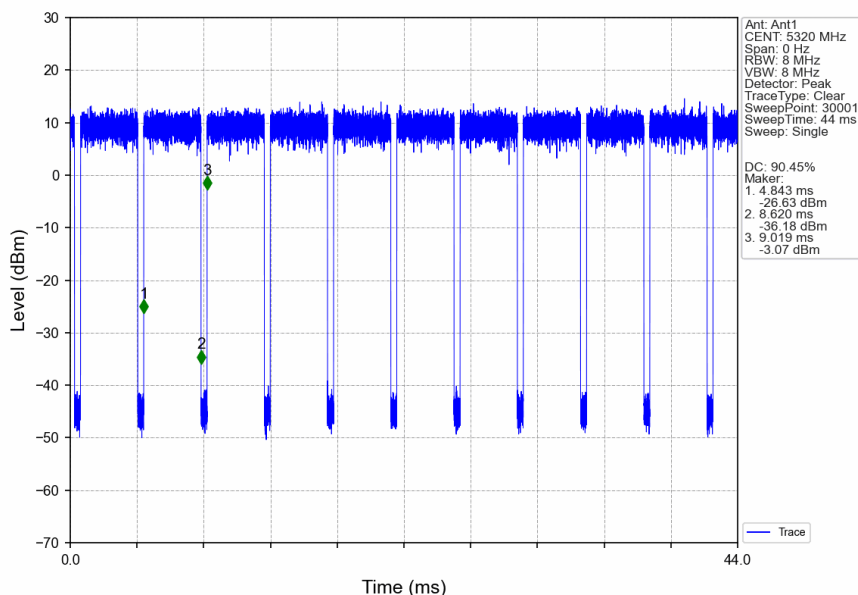
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



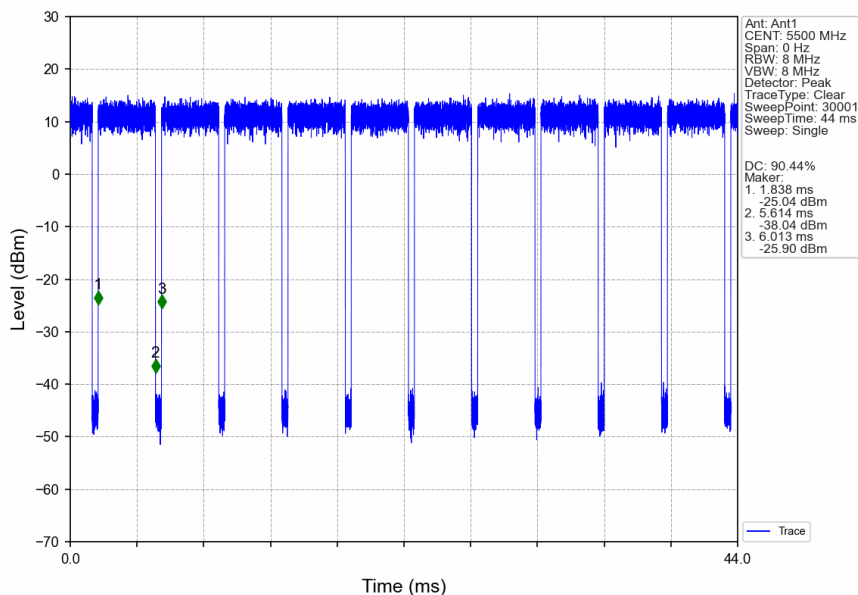
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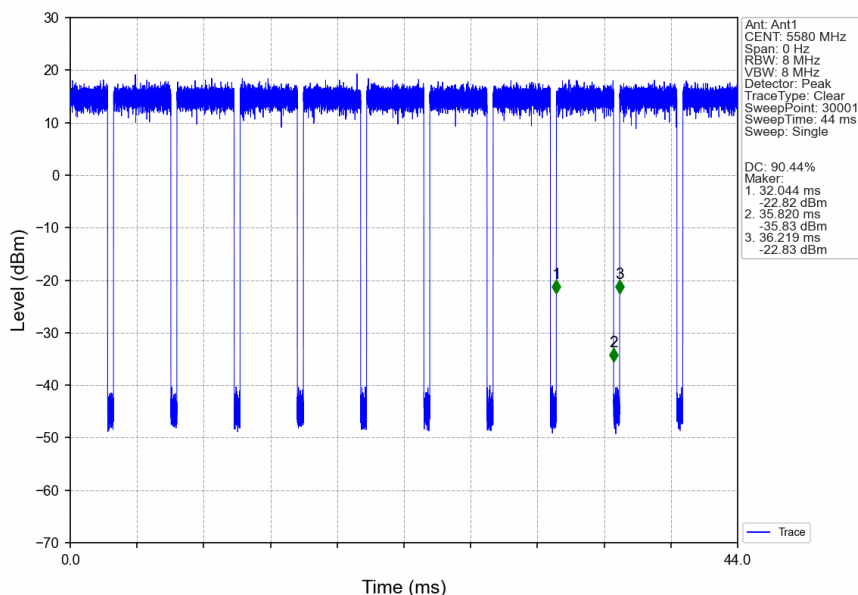
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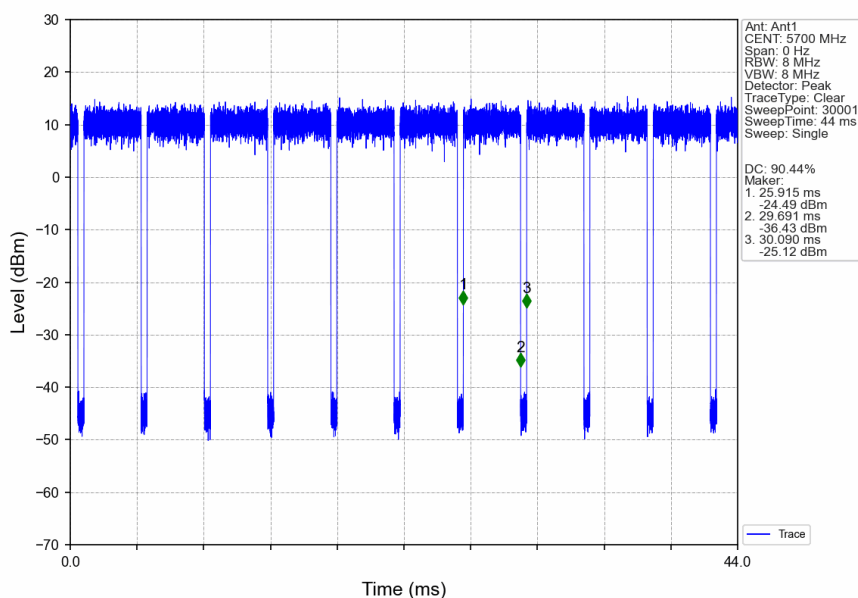
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



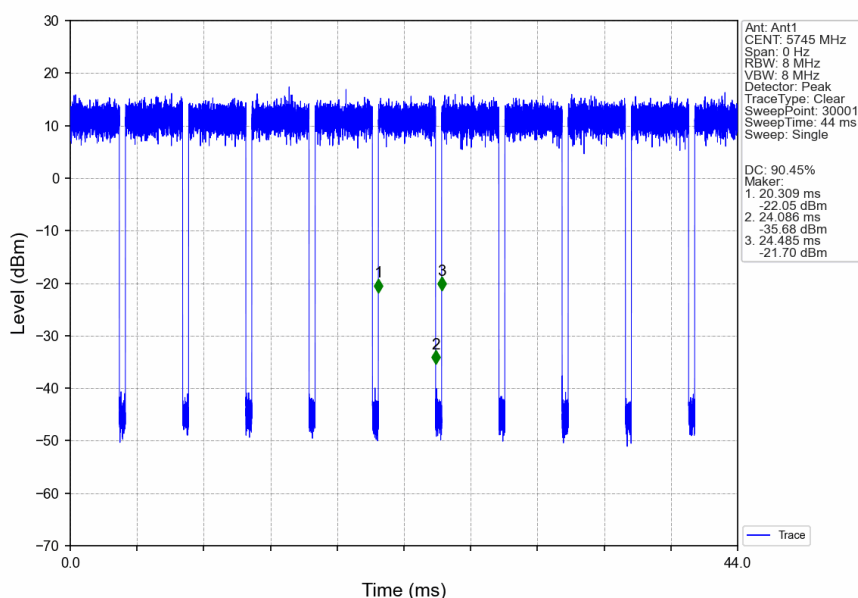
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



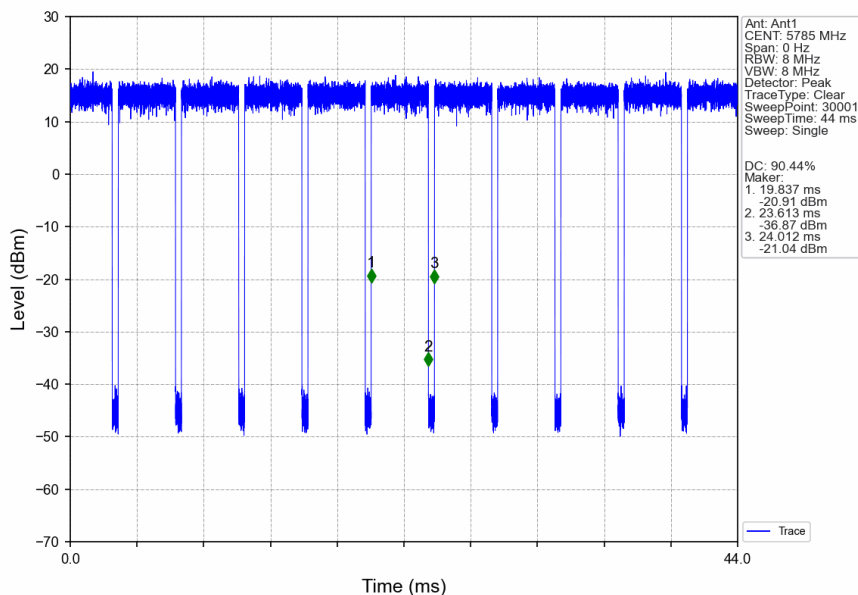
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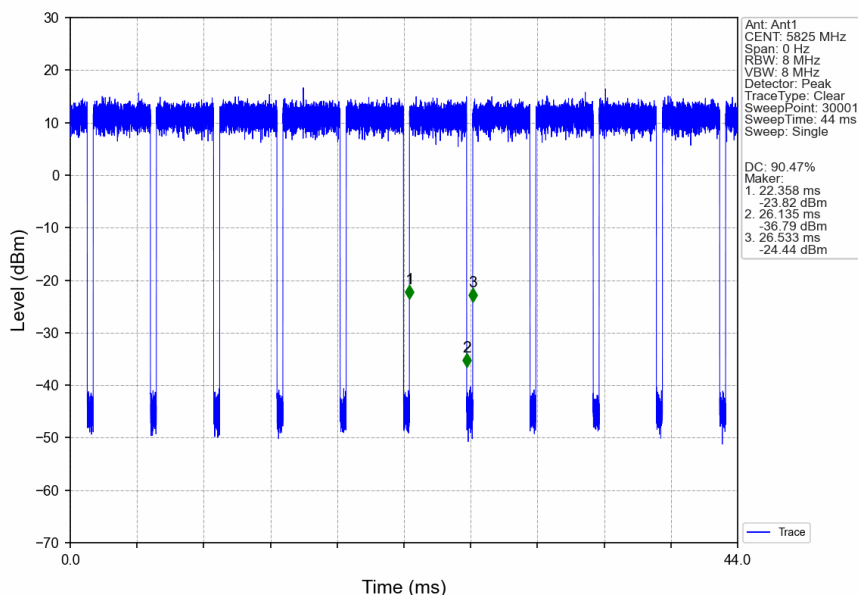
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

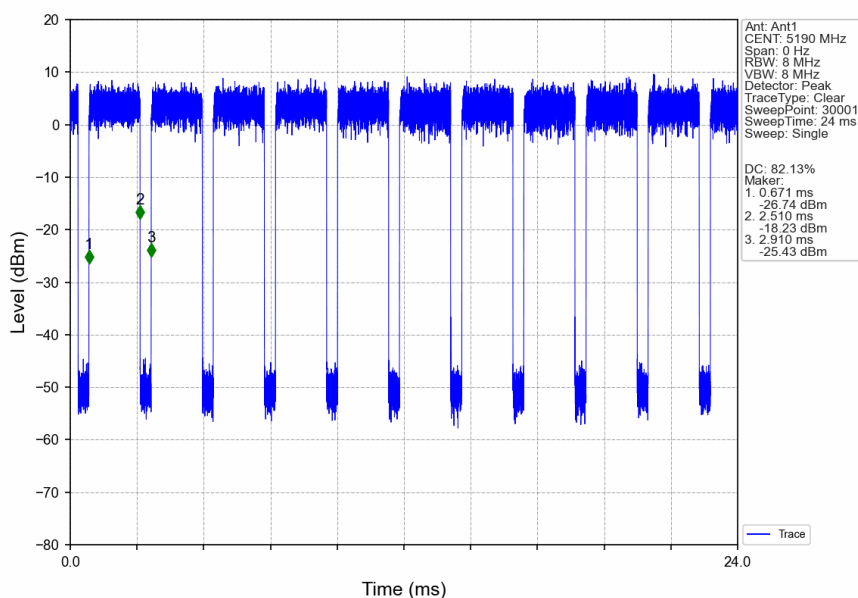


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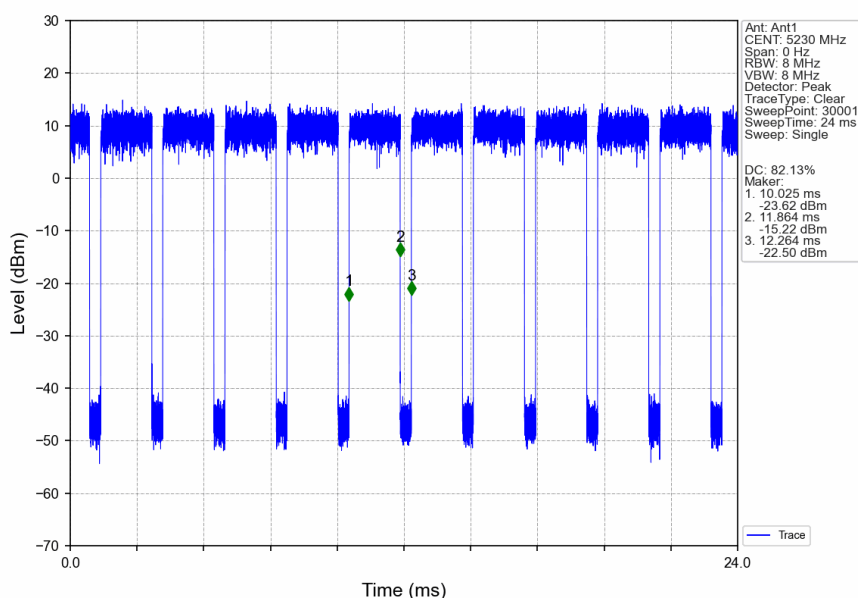
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

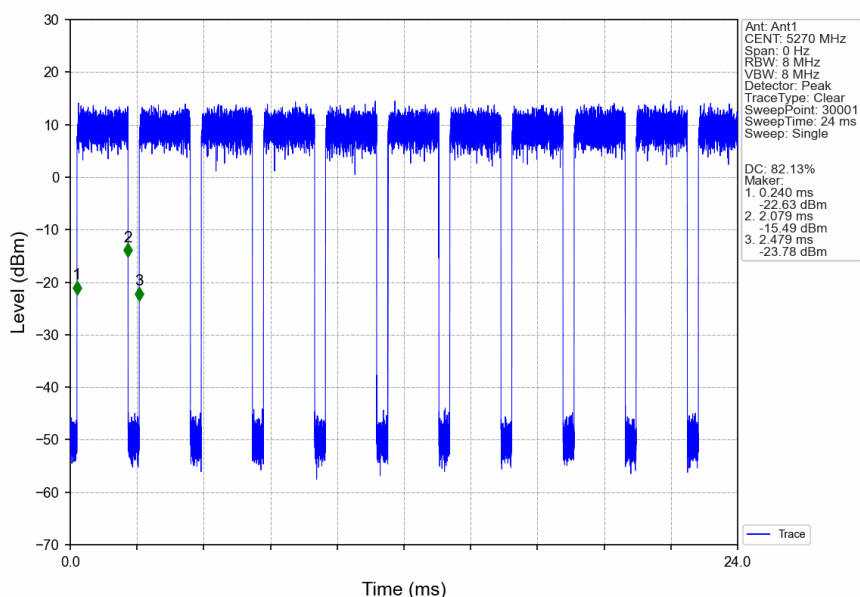


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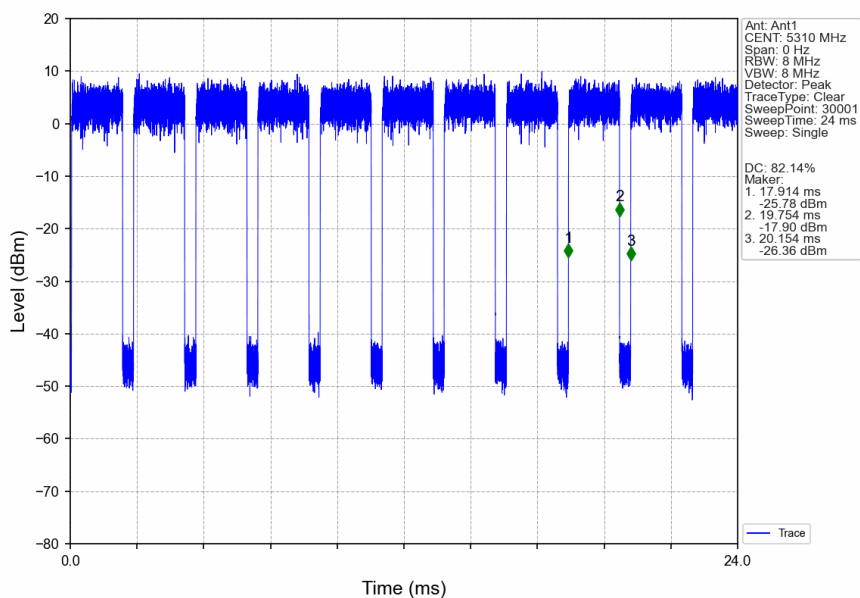
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV

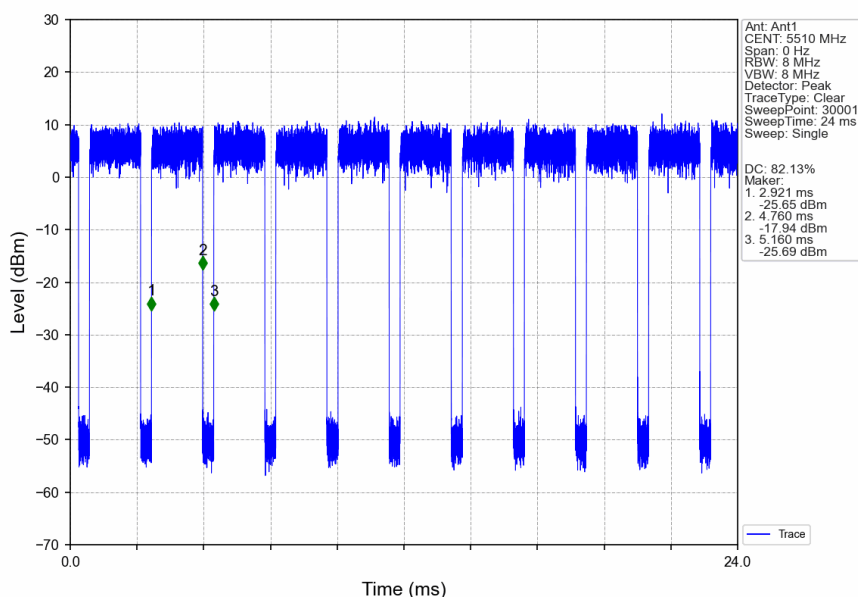


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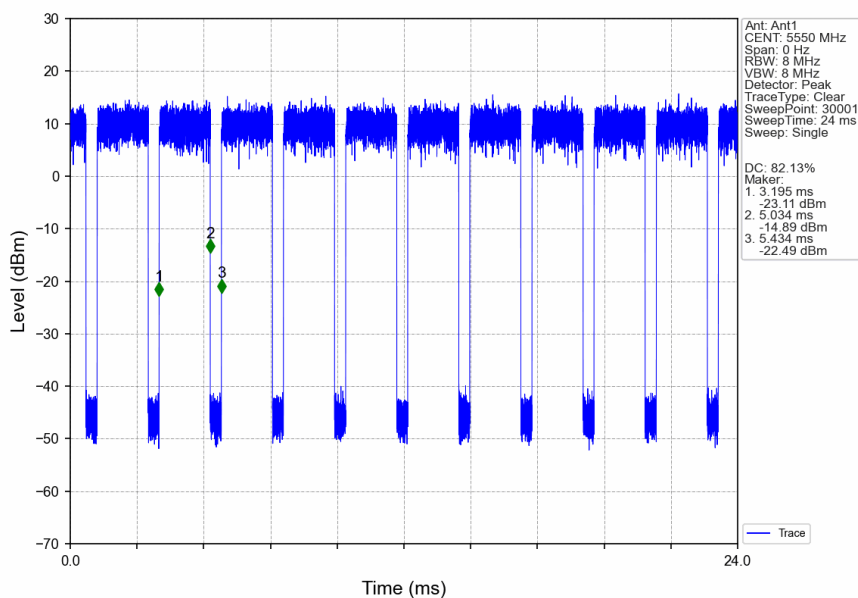
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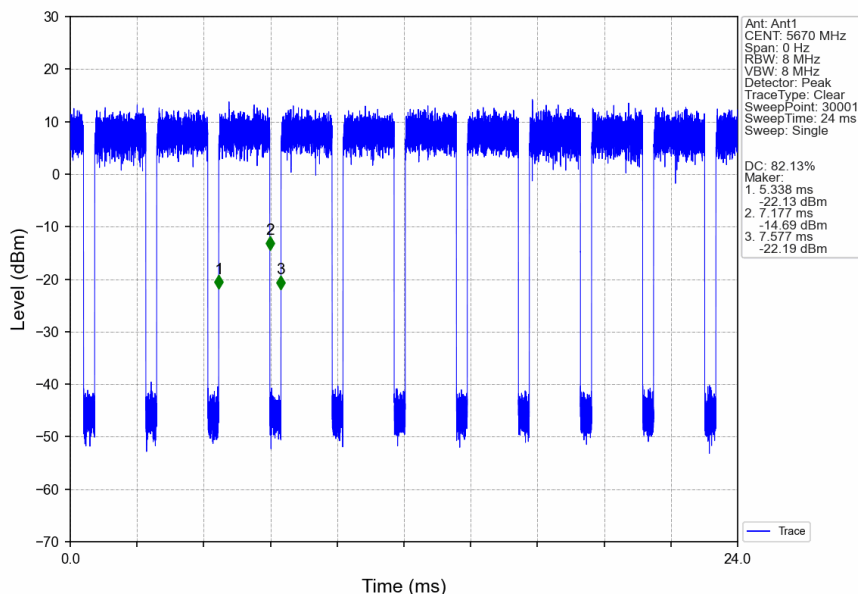
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



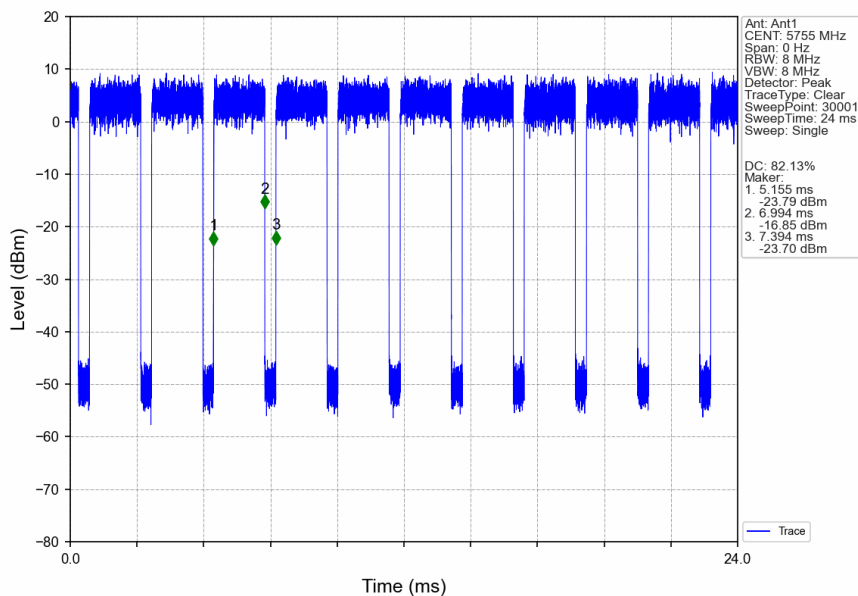
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



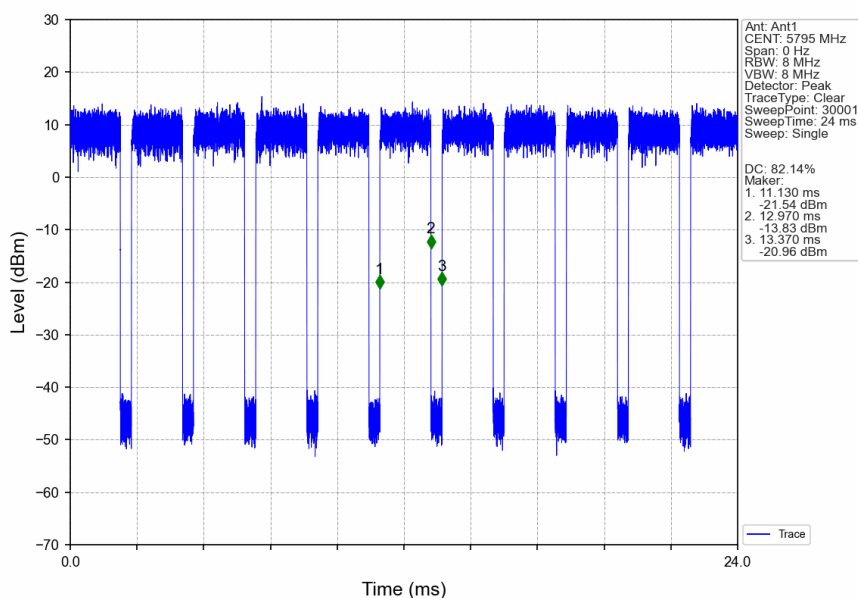
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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	19.967	/	Pass
		5200	1	19.687	/	Pass
		5240	1	19.284	/	Pass
		5260	1	18.576	/	Pass
		5300	1	18.518	/	Pass
		5320	1	18.569	/	Pass
		5500	1	18.802	/	Pass
		5580	1	19.662	/	Pass
		5700	1	18.539	/	Pass
		5745	1	17.933	/	Pass
		5785	1	20.421	/	Pass
		5825	1	18.756	/	Pass
802.11n (HT40)	SISO	5190	1	36.346	/	Pass
		5230	1	38.121	/	Pass
		5270	1	37.325	/	Pass
		5310	1	36.199	/	Pass
		5510	1	36.296	/	Pass
		5550	1	36.838	/	Pass
		5670	1	36.308	/	Pass
		5755	1	36.135	/	Pass
		5795	1	36.407	/	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	33.091	/	Pass
		5200	1	34.291	/	Pass
		5240	1	32.414	/	Pass
		5260	1	25.791	/	Pass
		5300	1	25.656	/	Pass
		5320	1	25.053	/	Pass
		5500	1	27.659	/	Pass
		5580	1	32.734	/	Pass
		5700	1	26.596	/	Pass
802.11n (HT40)	SISO	5190	1	46.530	/	Pass
		5230	1	68.934	/	Pass
		5270	1	64.546	/	Pass
		5310	1	43.796	/	Pass
		5510	1	44.566	/	Pass
		5550	1	53.070	/	Pass
		5670	1	44.801	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11n (HT20)	SISO	5745	1	15.069	>=0.5	Pass
		5785	1	15.436	>=0.5	Pass
		5825	1	13.912	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	30.746	>=0.5	Pass
		5795	1	22.969	>=0.5	Pass



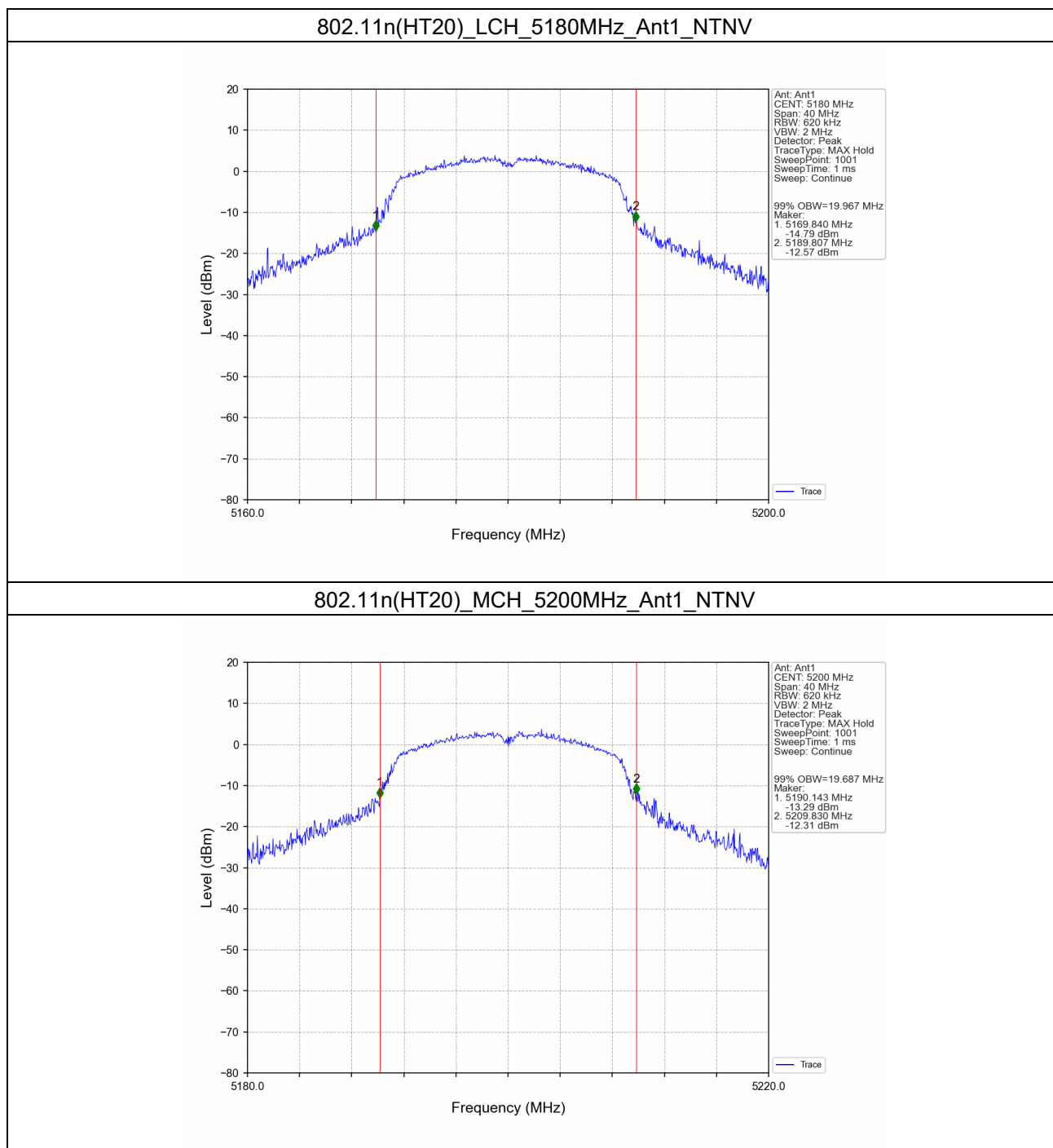
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2.2 Test Graph

2.2.1 OBW



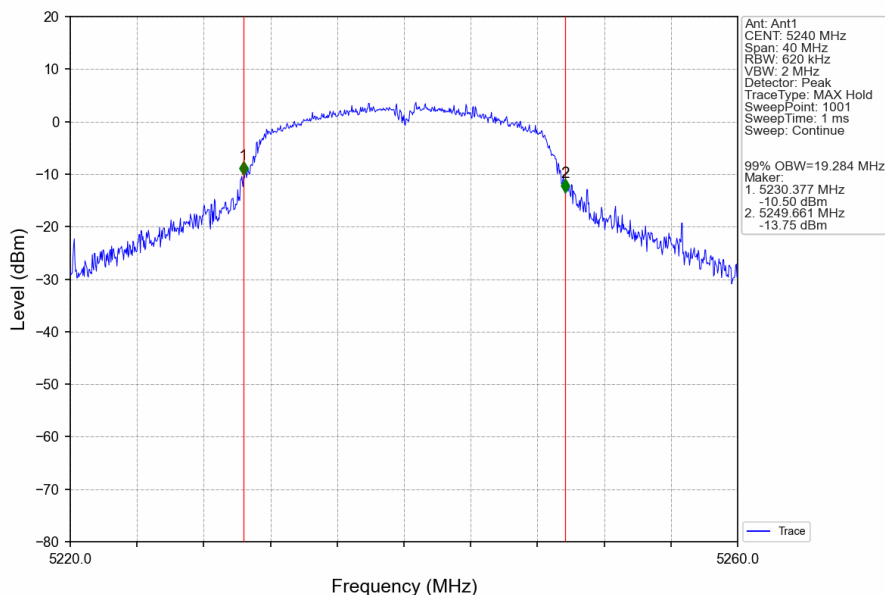
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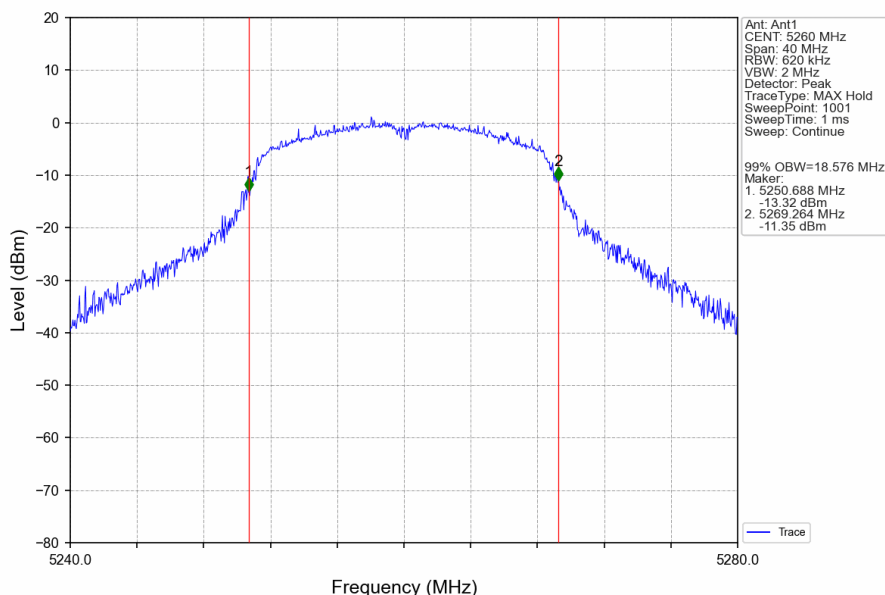
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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