

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300101302

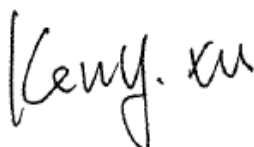
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TEST REPORT

Application No.: SZCR2603001013MO
Applicant/ Manufacturer: INGENICO
Address of Applicant/ Manufacturer: 9 Avenue de la gare - Rovaltain TGV, BP25156, Valence Cedex 9 26958 France
Factory: 1. ZHANGZHOU WANLIDA TECHNOLOGY CO.,LTD.
2. Jabil Vietnam Co. Ltd.
3. Cal-Comp Electronics (Thailand) Public Co., Ltd.
Address of Factory: 1. Wanlida Industrial Zone, Jingcheng Town, Nanjing, Zhangzhou, Fujian, China
2. Lot I8-1, Saigon High Tech Park, Long Thanh My Ward, Thu Duc City, Ho Chi Minh City, Vietnam
3. 60 Moo 8, Sethakij Rd., Klong Maduea, 74110, Kratoom Bean, Samutsakorn Thailand
Equipment Under Test (EUT):
EUT Name: Smart Module
Model No.: ING-A01-1-WU
Trade Mark: ingenico
FCC ID: XKB-INGA01WU
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2026-03-16
Date of Test: 2026-03-18 to 2026-03-27
Date of Issue: 2026-03-30

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



Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-03-30		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (Above 1GHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.6 & 12.7	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5 & 12.7.2	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass
Maximum Conducted Output Power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Power Spectral Density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass

Remark:

Model No.: ING-A01-1-WU

This test report (Ref. No.: SZCR260300101302) is only valid with the original test report (Ref. No.: SZCR250500182005).

According to the declaration from the applicant, the models in this report and models in original report were identical, the difference on reducing power.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report the section 2 items were fully retested on model and shown the data in this report, other tests please refer to original report SZCR250500182005.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.9V
Cable Loss (for RF conducted test):	1.5dB
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)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac20: 20MHz; 802.11n/ac40: 40MHz; 802.11ac80: 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Dipole Antenna
Antenna Gain:	U-NII-1/2A:0dBi, U-NII-2C:0.49dBi, U-NII-3:0.3dBi

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Debug board	ingenico	ING-A01 Demo	/
Adapter	LITEON	PA-1041-81	/



4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
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	$\pm 0.3\%$
Maximum Conducted Output Power	$\pm 0.8\text{dB}$
Power Spectral Density	$\pm 0.4\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated 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

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
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

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RF Conducted Test

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

General used equipment

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



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6 Radio Spectrum Matter Test Results

6.1 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 & 12.7
 Measurement Distance: 1m or 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:

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



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the limit distance provided.

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

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

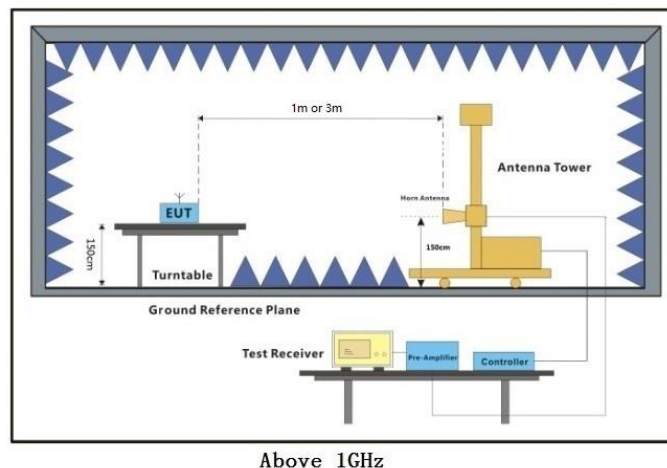
Humidity: 53.8 % RH

Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

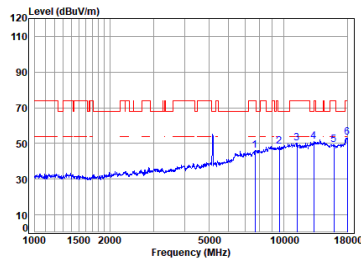
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

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



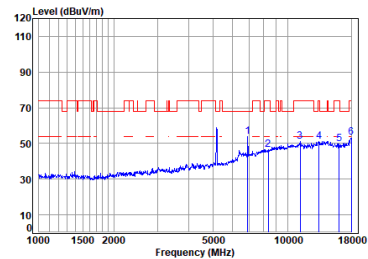
11a_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL
Job No : 0101390
Mode : 5180 TX RSE
: 5G Wi-Fi 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	7573.834	11.35	36.74	56.89	54.29	46.29	74.00	-27.71	Peak	0.00
2	9613.430	12.47	38.75	54.01	51.29	48.50	68.20	-19.70	Peak	0.00
3	11302.480	14.63	39.40	53.41	49.47	50.09	74.00	-23.91	Peak	0.00
4	pp13211.690	15.77	40.11	53.87	49.01	51.02	68.20	-17.18	Peak	0.00
5	15942.300	17.22	38.32	53.72	47.51	49.33	74.00	-24.67	Peak	0.00
6	18000.000	18.35	42.60	54.30	46.57	53.22	74.00	-20.77	Peak	0.00

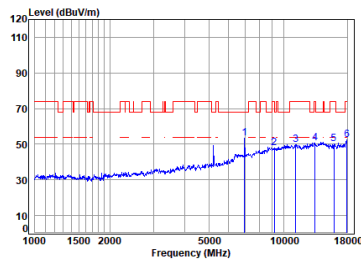
11a_TX_CH_36_Vertical



Condition: 3m VERTICAL
Job No : 0101390
Mode : 5180 TX RSE
: 5G Wi-Fi 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	pp 6914.763	11.37	36.27	56.51	62.93	54.86	68.20	-14.14	Peak	0.00
2	8343.918	11.70	37.56	55.47	52.81	46.69	74.00	-27.40	Peak	0.00
3	11204.900	14.75	39.50	53.44	50.31	51.12	74.00	-22.88	Peak	0.00
4	13365.320	16.13	40.40	53.91	48.52	51.14	74.00	-22.86	Peak	0.00
5	16127.690	17.11	37.90	53.73	48.50	49.78	74.00	-24.22	Peak	0.00
6	18000.000	18.35	42.60	54.30	46.57	53.22	74.00	-20.78	Peak	0.00

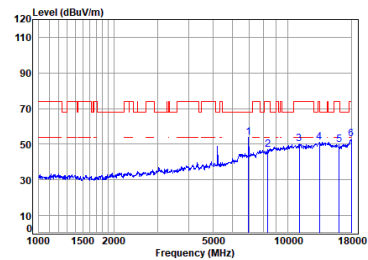
11a_TX_CH_44_Horizontal



Condition: 3m HORIZONTAL
Job No : 0101390
Mode : 5220 TX RSE
: 5G Wi-Fi 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	pp 6954.852	11.37	36.21	56.50	62.25	53.33	68.20	-14.87	Peak	0.00
2	9178.972	12.28	38.58	54.49	51.51	47.88	74.00	-26.12	Peak	0.00
3	11172.560	14.73	39.45	53.45	49.00	49.73	74.00	-24.27	Peak	0.00
4	13365.320	16.13	40.40	53.91	48.12	50.74	74.00	-23.26	Peak	0.00
5	15896.290	17.27	38.41	53.74	48.20	50.14	74.00	-23.86	Peak	0.00
6	17948.050	18.30	42.29	54.28	46.25	52.56	74.00	-21.44	Peak	0.00

11a_TX_CH_44_Vertical

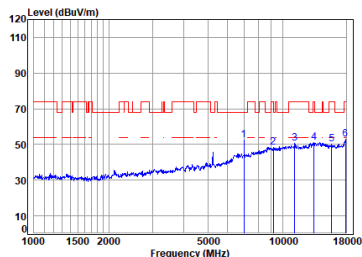


Condition: 3m VERTICAL
Job No : 0101390
Mode : 5220 TX RSE
: 5G Wi-Fi 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	pp 6954.852	11.37	36.21	56.50	62.74	53.82	68.20	-14.38	Peak	0.00
2	8319.836	11.73	37.42	55.50	53.15	46.80	74.00	-27.20	Peak	0.00
3	11140.310	14.70	39.38	53.46	49.71	50.33	74.00	-23.67	Peak	0.00
4	13404.010	15.91	40.50	53.92	48.50	50.99	68.20	-17.21	Peak	0.00
5	16081.140	17.09	37.96	53.72	48.24	49.57	74.00	-24.43	Peak	0.00
6	18000.000	18.35	42.60	54.30	46.15	52.80	74.00	-21.20	Peak	0.00



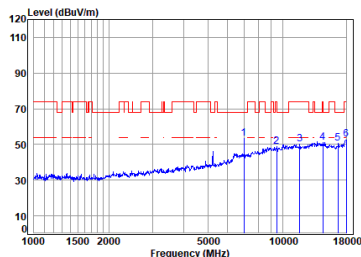
11a_TX_CH_48_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5240 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 6995.172	11.37	36.29	56.50	61.21	52.37	68.20	-15.83	Peak	0.00	
2 9178.972	12.28	38.58	54.49	52.01	48.38	74.00	-25.62	Peak	0.00	
3 11172.508	14.73	39.45	53.45	49.81	50.54	74.00	-23.46	Peak	0.00	
4 13365.320	16.13	40.40	53.91	48.55	51.17	74.00	-22.83	Peak	0.00	
5 15713.560	17.24	38.60	53.81	48.23	50.26	74.00	-23.74	Peak	0.00	
6 17896.258	18.25	41.97	54.26	46.91	52.87	74.00	-21.13	Peak	0.00	

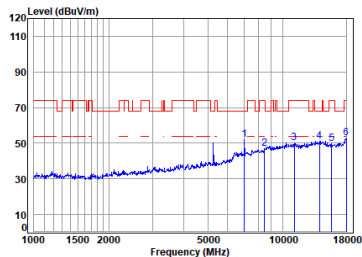
11a_TX_CH_48_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5240 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 6995.172	11.37	36.29	56.50	62.37	53.53	68.20	-14.67	Peak	0.00	
2 9448.149	12.43	38.90	54.19	51.74	48.88	74.00	-25.12	Peak	0.00	
3 11701.300	14.73	39.10	53.29	49.72	50.26	74.00	-23.74	Peak	0.00	
4 14491.960	17.07	40.22	54.10	48.06	51.25	74.00	-22.75	Peak	0.00	
5 16696.800	17.59	38.50	53.84	48.32	50.57	68.20	-17.63	Peak	0.00	
6 18000.000	18.35	42.60	54.30	46.18	52.83	74.00	-21.17	Peak	0.00	

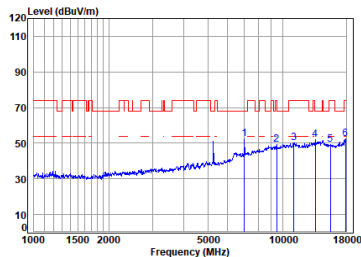
11a_TX_CH_52_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5260 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 7015.420	11.47	36.33	56.49	60.82	52.13	68.20	-16.07	Peak	0.00	
2 8440.945	11.91	37.66	55.35	52.98	47.20	74.00	-26.80	Peak	0.00	
3 11140.310	14.70	39.30	53.46	49.36	49.98	74.00	-24.02	Peak	0.00	
4 14079.000	16.56	40.44	54.10	48.37	51.27	68.20	-16.93	Peak	0.00	
5 15759.050	17.13	38.60	53.79	47.94	49.88	74.00	-24.12	Peak	0.00	
6 18000.000	18.35	42.60	54.30	46.38	53.03	74.00	-20.97	Peak	0.00	

11a_TX_CH_52_Vertical

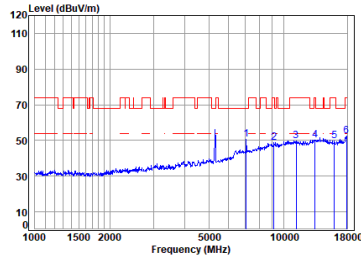


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5260 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 7015.420	11.47	36.33	56.49	61.35	52.66	68.20	-15.54	Peak	0.00	
2 9448.149	12.43	38.90	54.19	52.06	49.20	74.00	-24.80	Peak	0.00	
3 11100.160	14.67	39.32	53.47	49.08	50.40	74.00	-23.60	Peak	0.00	
4 13520.740	15.80	40.56	53.96	49.59	51.99	68.20	-16.21	Peak	0.00	
5 15532.940	16.98	38.87	53.88	47.12	49.09	74.00	-24.91	Peak	0.00	
6 17896.250	18.25	41.97	54.26	46.44	52.40	74.00	-21.60	Peak	0.00	



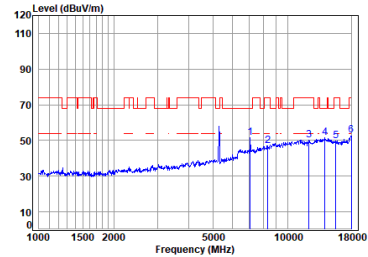
11a_TX_CH_60_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5300 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	7076.516	11.85	36.56	56.45	58.81	50.77	68.20	-17.43	Peak	0.00
2	9152.479	12.23	38.69	54.52	52.35	48.75	74.00	-25.25	Peak	0.00
3	11204.908	14.75	39.50	53.44	48.85	49.66	74.00	-24.34	Peak	0.00
4	13365.320	16.13	40.40	53.91	47.76	50.38	74.00	-23.62	Peak	0.00
5	15988.450	17.16	38.22	53.70	47.96	49.64	74.00	-24.36	Peak	0.00
6	17896.258	18.25	41.97	54.26	46.65	52.61	74.00	-21.39	Peak	0.00

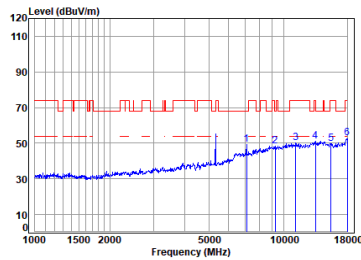
11a_TX_CH_60_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5300 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	7076.516	11.85	36.56	56.45	59.43	51.39	68.20	-16.81	Peak	0.00
2	8319.836	11.73	37.42	55.50	53.53	47.18	74.00	-26.82	Peak	0.00
3	12104.500	14.55	39.37	53.31	49.74	50.35	74.00	-23.65	Peak	0.00
4	14119.830	16.45	40.42	54.10	48.88	51.65	68.20	-16.55	Peak	0.00
5	15622.990	17.19	38.75	53.85	47.65	49.74	74.00	-24.26	Peak	0.00
6	18000.000	18.35	42.60	54.30	46.32	52.97	74.00	-21.03	Peak	0.00

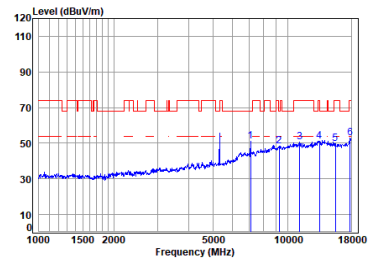
11a_TX_CH_64_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5320 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	7096.999	11.97	36.68	56.44	57.27	49.48	68.20	-18.72	Peak	0.00
2	9232.187	12.27	38.63	54.43	51.86	48.33	68.20	-19.87	Peak	0.00
3	11172.560	14.73	39.45	53.45	49.47	50.20	74.00	-23.80	Peak	0.00
4	13404.010	15.91	40.50	53.92	48.45	50.94	68.20	-17.26	Peak	0.00
5	15488.110	16.88	38.91	53.90	47.86	49.75	74.00	-24.25	Peak	0.00
6	18000.000	18.35	42.60	54.30	46.05	52.70	74.00	-21.30	Peak	0.00

11a_TX_CH_64_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5320 TX RSE
: 5G Wi-Fi 11A

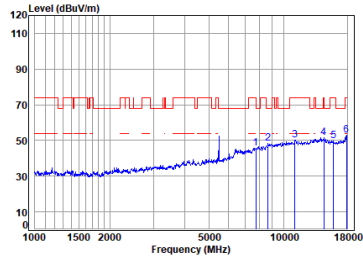
Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	7096.999	11.97	36.68	56.44	58.96	51.17	68.20	-17.03	Peak	0.00
2	9232.187	12.27	38.63	54.43	51.85	48.32	68.20	-19.88	Peak	0.00
3	11172.560	14.73	39.45	53.45	49.86	50.59	74.00	-23.41	Peak	0.00
4	13404.010	15.91	40.50	53.92	48.64	51.13	68.20	-17.07	Peak	0.00
5	15532.940	16.98	38.87	53.88	47.68	49.65	74.00	-24.35	Peak	0.00
6	17844.590	18.21	41.56	54.24	47.37	52.90	74.00	-21.10	Peak	0.00



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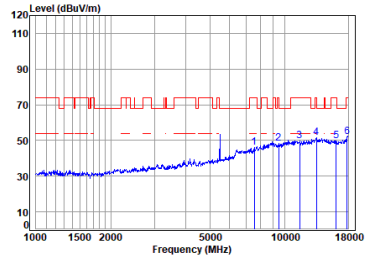
11a_TX_CH_100_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5500 TX RSE
: 5G Wi-Fi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7717.518	11.43	36.94	56.06	53.42	45.73	74.00	-28.27	Peak	0.00
2	8663.404	12.04	38.23	55.09	53.14	48.32	68.20	-19.88	Peak	0.00
3	11076.108	14.54	39.30	53.48	49.72	50.08	74.00	-23.92	Peak	0.00
4	14491.960	17.07	40.22	54.10	48.38	51.57	74.00	-22.43	Peak	0.00
5	15890.410	17.16	38.50	53.76	47.61	49.51	74.00	-24.49	Peak	0.00
6	17896.258	18.25	41.97	54.26	46.83	52.79	74.00	-21.21	Peak	0.00

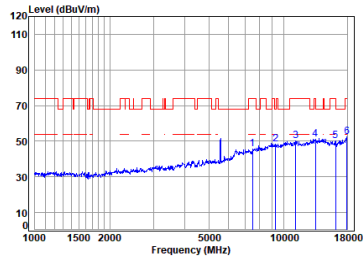
11a_TX_CH_100_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5500 TX RSE
: 5G Wi-Fi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7541.114	11.17	36.64	56.17	54.24	45.88	74.00	-28.12	Peak	0.00
2	9448.149	12.43	38.90	54.19	51.25	48.39	74.00	-25.61	Peak	0.00
3	11500.200	15.05	39.20	53.35	48.93	49.83	74.00	-24.17	Peak	0.00
4	pp13404.010	15.91	40.50	53.92	49.22	51.71	68.20	-16.49	Peak	0.00
5	16081.140	17.09	37.96	53.72	48.34	49.67	74.00	-24.33	Peak	0.00
6	17793.090	18.18	41.15	54.22	46.74	51.85	74.00	-22.15	Peak	0.00

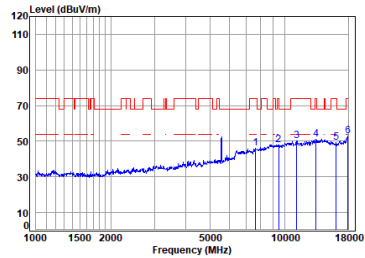
11a_TX_CH_116_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5500 TX RSE
: 5G Wi-Fi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7497.646	11.24	36.80	56.19	53.90	45.75	74.00	-28.25	Peak	0.00
2	9285.710	12.19	38.70	54.37	51.88	48.40	68.20	-19.80	Peak	0.00
3	11172.560	14.73	39.45	53.45	49.46	50.19	74.00	-23.81	Peak	0.00
4	pp13404.010	15.91	40.50	53.92	48.80	51.29	68.20	-16.91	Peak	0.00
5	16174.370	17.17	37.90	53.74	48.98	50.31	74.00	-23.69	Peak	0.00
6	17948.050	18.30	42.29	54.28	46.08	52.39	74.00	-21.61	Peak	0.00

11a_TX_CH_116_Vertical

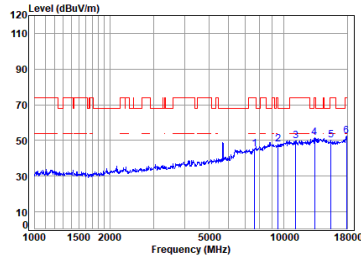


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5500 TX RSE
: 5G Wi-Fi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7650.888	11.27	36.61	56.10	54.40	46.18	74.00	-27.82	Peak	0.00
2	9448.149	12.43	38.90	54.19	50.95	48.09	74.00	-25.91	Peak	0.00
3	11172.560	14.73	39.45	53.45	49.52	50.25	74.00	-23.75	Peak	0.00
4	13365.320	16.13	40.40	53.91	48.46	51.08	74.00	-22.92	Peak	0.00
5	16081.140	17.09	37.96	53.72	48.18	49.51	74.00	-24.49	Peak	0.00
6	pp17948.050	18.30	42.29	54.28	46.54	52.85	74.00	-21.15	Peak	0.00



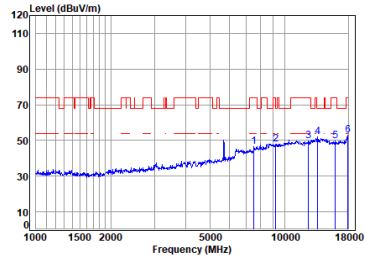
11a_TX_CH_140_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5700 TX RSE
: 5G Wi-Fi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7628.806	11.19	36.68	56.11	53.63	45.39	74.00	-28.61	Peak	0.00
2	9502.925	12.56	38.71	54.13	50.91	48.05	68.20	-20.15	Peak	0.00
3	11172.508	14.73	39.45	53.45	49.05	49.78	74.00	-24.22	Peak	0.00
4	13326.750	16.37	40.28	53.90	48.80	51.55	74.00	-22.45	Peak	0.00
5	15488.110	16.88	38.91	53.90	48.13	50.82	74.00	-23.98	Peak	0.00
6	17896.258	18.25	41.97	54.26	46.51	52.47	74.00	-21.53	Peak	0.00

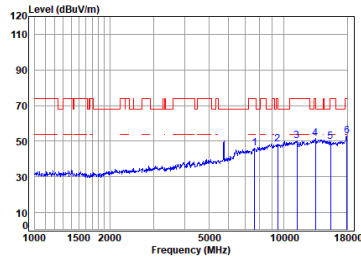
11a_TX_CH_140_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5700 TX RSE
: 5G Wi-Fi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7519.349	11.20	36.72	56.18	54.98	46.72	74.00	-27.28	Peak	0.00
2	9205.540	12.31	38.52	54.46	51.60	47.97	68.20	-20.23	Peak	0.00
3	12469.610	15.43	39.30	53.49	48.38	49.62	74.00	-24.38	Peak	0.00
4	pp13559.800	15.78	40.48	53.97	49.72	52.01	68.20	-16.19	Peak	0.00
5	15988.450	17.16	38.22	53.70	48.13	49.81	74.00	-24.19	Peak	0.00
6	17948.050	18.30	42.29	54.28	46.61	52.92	74.00	-21.08	Peak	0.00

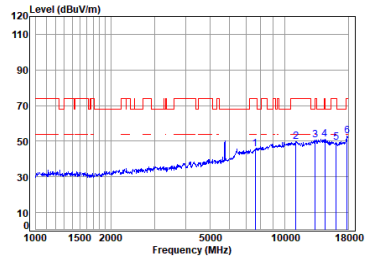
11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5745 TX RSE
: 5.8G Wi-Fi 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7628.806	11.19	36.68	56.11	54.10	45.86	74.00	-28.14	Peak	0.00
2	9448.149	12.43	38.90	54.19	51.20	48.34	74.00	-25.66	Peak	0.00
3	11302.400	14.63	39.40	53.41	49.59	50.21	74.00	-23.79	Peak	0.00
4	pp13404.010	15.91	40.50	53.92	48.99	51.48	68.20	-16.72	Peak	0.00
5	15443.410	16.82	38.96	53.92	47.81	49.67	74.00	-24.33	Peak	0.00
6	17948.050	18.30	42.29	54.28	46.73	53.04	74.00	-20.96	Peak	0.00

11a_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5745 TX RSE
: 5.8G Wi-Fi 11A

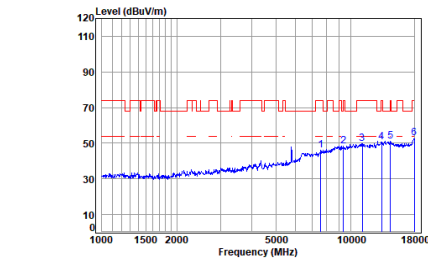
	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7606.788	11.11	36.77	56.13	53.90	45.65	74.00	-28.35	Peak	0.00
2	11108.160	14.67	39.32	53.47	49.07	49.59	74.00	-24.41	Peak	0.00
3	pp13249.930	16.11	40.15	53.88	48.35	50.73	68.20	-17.47	Peak	0.00
4	14491.960	17.07	40.22	54.10	48.08	51.27	74.00	-22.73	Peak	0.00
5	16081.140	17.09	37.96	53.72	47.93	49.26	74.00	-24.74	Peak	0.00
6	17793.090	18.18	41.15	54.22	47.63	52.74	74.00	-21.26	Peak	0.00



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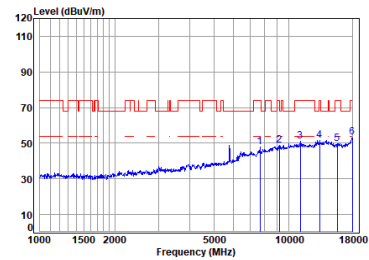
11a_TX_CH_157_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5785 TX RSE
: 5.86 Wi-Fi 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	7584.833	11.11	36.74	56.14	54.39	46.10	74.00	-27.90	Peak	0.00
2	9366.577	12.26	38.73	54.28	51.78	48.49	74.00	-25.51	Peak	0.00
3	11140.310	14.70	39.38	53.46	49.16	49.78	74.00	-24.22	Peak	0.00
4	13326.750	16.37	40.28	53.90	48.08	50.83	74.00	-23.17	Peak	0.00
5	pp14450.130	16.98	40.30	54.10	48.05	51.23	68.20	-16.97	Peak	0.00
6	18000.000	18.35	42.60	54.30	46.40	53.05	74.00	-28.95	Peak	0.00

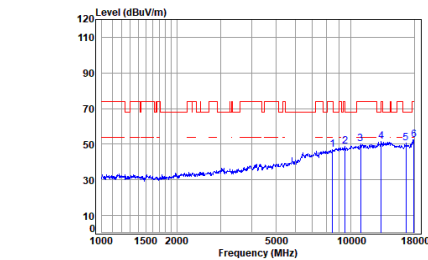
11a_TX_CH_157_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5785 TX RSE
: 5.86 Wi-Fi 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	7673.034	11.35	36.74	56.09	55.71	47.71	74.00	-26.29	Peak	0.00
2	9178.972	12.28	38.50	54.49	52.26	48.63	74.00	-25.37	Peak	0.00
3	11140.310	14.70	39.38	53.46	50.39	51.01	74.00	-22.99	Peak	0.00
4	13326.750	16.37	40.28	53.90	49.03	51.78	74.00	-22.22	Peak	0.00
5	15668.210	17.24	38.66	53.83	47.61	49.68	74.00	-24.32	Peak	0.00
6	pp18000.000	18.35	42.60	54.30	46.68	53.33	74.00	-28.67	Peak	0.00

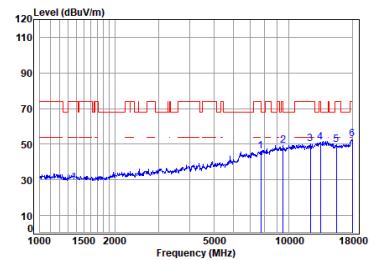
11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5825 TX RSE
: 5.86 Wi-Fi 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	8405.379	12.08	37.73	55.32	52.47	46.96	74.00	-27.04	Peak	0.00
2	9502.925	12.56	38.71	54.13	51.65	48.79	68.20	-19.41	Peak	0.00
3	10948.780	14.06	39.40	53.50	50.33	50.29	74.00	-23.71	Peak	0.00
4	13288.280	16.44	40.19	53.89	48.87	51.61	74.00	-22.39	Peak	0.00
5	pp16696.880	17.59	38.50	53.84	48.19	50.44	68.20	-17.76	Peak	0.00
6	17948.050	18.30	42.29	54.28	46.37	52.68	74.00	-21.32	Peak	0.00

11a_TX_CH_165_Vertical

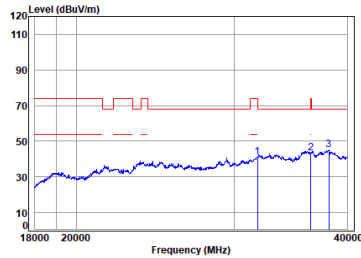


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5825 TX RSE
: 5.86 Wi-Fi 11A

Freq	Cable	Loss	Factor	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	7739.057	11.39	36.98	56.05	53.95	46.27	74.00	-27.73	Peak	0.00
2	9502.925	12.56	38.71	54.13	52.09	49.23	68.20	-18.97	Peak	0.00
3	12219.850	14.58	39.40	53.34	49.49	50.13	74.00	-23.87	Peak	0.00
4	pp13404.010	15.91	40.50	53.92	48.48	50.97	68.20	-17.23	Peak	0.00
5	15577.900	17.11	38.82	53.87	47.58	49.64	74.00	-24.36	Peak	0.00
6	18000.000	18.35	42.60	54.30	46.07	52.72	74.00	-21.28	Peak	0.00



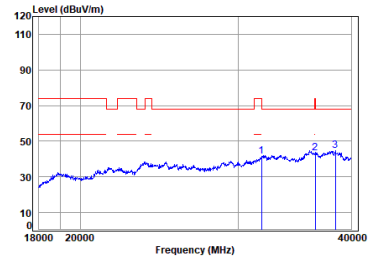
11a_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL
Job No : 0101302
Mode : 5180 TX RSE
: 5G Wi-Fi 11A

	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	31807.680	7.87	40.82	51.43	53.44	41.16	68.20	-27.04	Peak	-9.54
2	36461.340	7.94	42.10	49.57	52.44	43.37	74.00	-30.63	Peak	-9.54
3	pp38189.718	7.75	42.23	50.31	54.91	45.04	68.20	-23.16	Peak	-9.54

11a_TX_CH_36_Vertical



Condition: 3m VERTICAL
Job No : 0101302
Mode : 5180 TX RSE
: 5G Wi-Fi 11A

	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	31807.680	7.87	40.82	51.43	54.02	41.74	68.20	-26.46	Peak	-9.54
2	36490.470	7.91	42.10	49.59	52.31	43.19	74.00	-30.81	Peak	-9.54
3	pp38403.770	7.61	42.61	50.44	54.39	44.63	68.20	-23.57	Peak	-9.54



6.2 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 & 12.7.2
 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.



6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

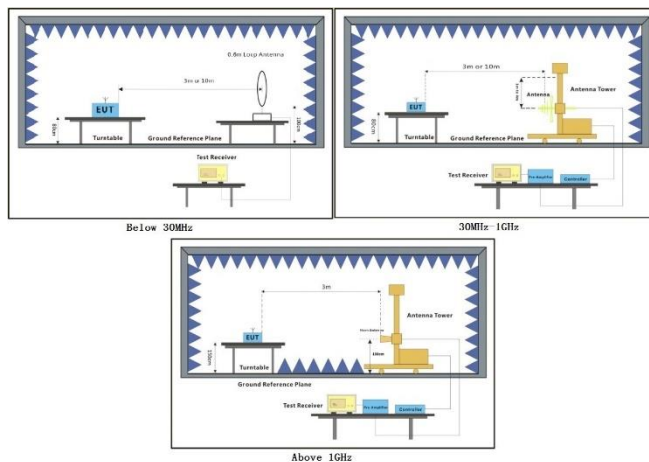
Humidity: 56.1 % RH

Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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.

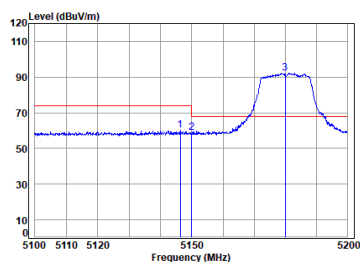
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.



11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

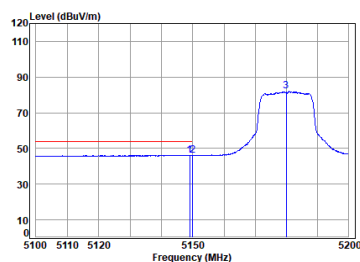
Job No : 0101390

Mode : 5180 Band edge

: 5G Wi-Fi 11A

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
1	5146.358	10.13	33.30	29.95	46.89	60.37	74.00	-13.63	Peak	0.00
2	5149.908	10.14	33.30	29.95	45.44	58.83	74.00	-15.07	Peak	0.00
3 pp	5180.000	10.25	33.30	29.94	78.57	92.18	68.20	23.98	Peak	0.00

11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

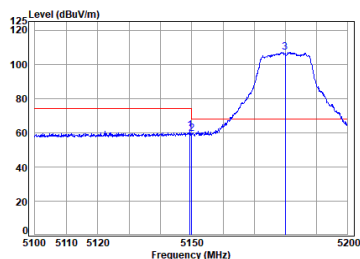
Job No : 0101390

Mode : 5180 Band edge

: 5G Wi-Fi 11A

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
1 pp	5145.958	10.14	33.30	29.95	32.75	46.25	54.00	-7.75	Average	0.00
2	5149.908	10.14	33.30	29.95	32.64	46.13	54.00	-7.87	Average	0.00
3	5180.000	10.25	33.30	29.94	68.39	82.00	68.20	13.80	Average	0.00

11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL

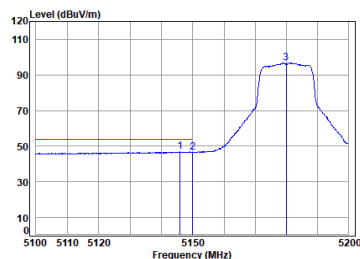
Job No : 0101390

Mode : 5180 Band edge

: 5G Wi-Fi 11A

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
1	5149.458	10.14	33.30	29.95	47.65	61.14	74.00	-12.86	Peak	0.00
2	5149.908	10.14	33.30	29.95	46.12	59.61	74.00	-14.39	Peak	0.00
3 pp	5180.000	10.25	33.30	29.94	93.32	106.93	68.20	38.73	Peak	0.00

11a_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL

Job No : 0101390

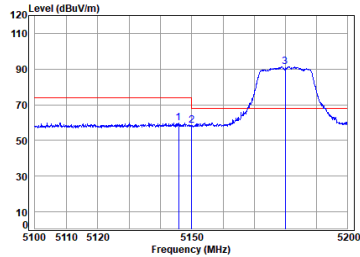
Mode : 5180 Band edge

: 5G Wi-Fi 11A

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
1 pp	5145.958	10.13	33.30	29.95	33.39	46.87	54.00	-7.13	Average	0.00
2	5149.908	10.14	33.30	29.95	33.26	46.75	54.00	-7.25	Average	0.00
3	5180.000	10.25	33.30	29.94	83.28	96.89	68.20	28.69	Average	0.00



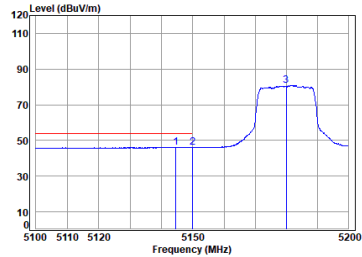
11ac_VHT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5180 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5145.859	10.13	33.30	29.95	46.48	59.96	74.00	-14.04	Peak	0.00
2	5149.980	10.14	33.30	29.95	44.98	58.47	74.00	-15.53	Peak	0.00
3 pp	5180.000	10.25	33.30	29.94	77.77	91.38	68.20	23.18	Peak	0.00

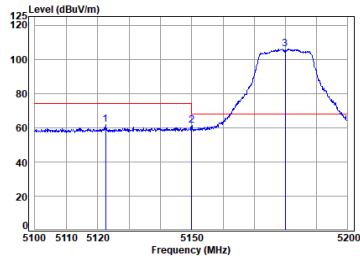
11ac_VHT(20M)_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5180 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5144.560	10.12	33.30	29.95	32.71	46.18	54.00	-7.82	Average	0.00
2	5149.980	10.14	33.30	29.95	32.69	46.18	54.00	-7.82	Average	0.00
3	5180.000	10.25	33.30	29.94	67.27	80.88	68.20	12.68	Average	0.00

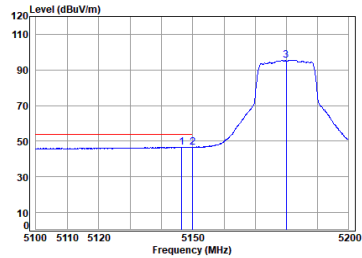
11ac_VHT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5180 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5122.431	10.04	33.30	29.96	48.19	61.57	74.00	-12.43	Peak	0.00
2	5149.980	10.14	33.30	29.95	47.94	61.43	74.00	-12.57	Peak	0.00
3 pp	5180.000	10.25	33.30	29.94	92.41	106.02	68.20	37.82	Peak	0.00

11ac_VHT(20M)_TX_CH_36_Vertical-Avg

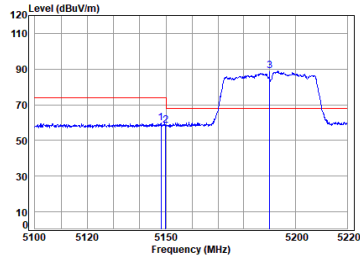


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5180 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5146.458	10.13	33.30	29.95	33.28	46.76	54.00	-7.24	Average	0.00
2	5149.980	10.14	33.30	29.95	33.19	46.68	54.00	-7.32	Average	0.00
3	5180.000	10.25	33.30	29.94	81.95	95.56	68.20	27.36	Average	0.00



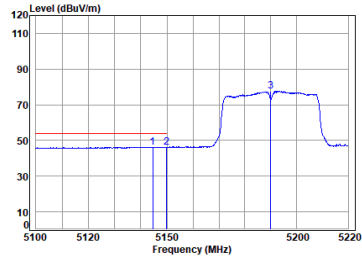
11ac_VHT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5190 Band edge
: 5G Wi-Fi 11AC40

	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	5148.144	10.13	33.30	29.95	46.08	59.56	74.00	-14.44	Peak	0.00
2	5149.980	10.14	33.30	29.95	45.04	58.53	74.00	-15.47	Peak	0.00
3	5190.000	10.29	33.30	29.94	75.17	88.62	68.20	20.62	Peak	0.00

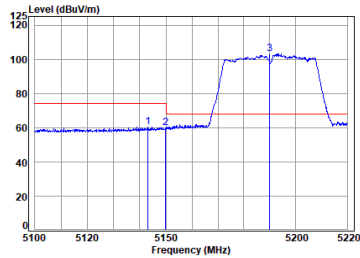
11ac_VHT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5190 Band edge
: 5G Wi-Fi 11AC40

	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	5144.554	10.12	33.30	29.95	32.84	46.31	54.00	-7.69	Average	0.00
2	5149.980	10.14	33.30	29.95	32.78	46.27	54.00	-7.73	Average	0.00
3	5190.000	10.29	33.30	29.94	64.06	77.71	-----	-----	Average	0.00

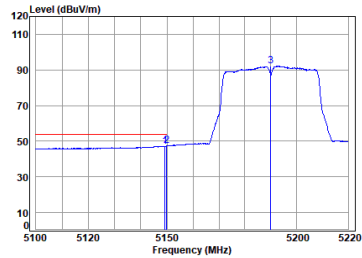
11ac_VHT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5190 Band edge
: 5G Wi-Fi 11AC40

	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	5143.118	10.11	33.30	29.95	46.85	60.31	74.00	-13.69	Peak	0.00
2	5149.980	10.14	33.30	29.95	46.31	59.80	74.00	-14.20	Peak	0.00
3	5190.000	10.29	33.30	29.94	89.41	103.06	68.20	34.86	Peak	0.00

11ac_VHT(40M)_TX_CH_38_Vertical-Avg

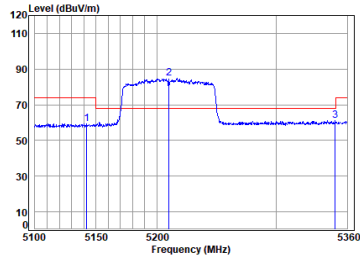


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5190 Band edge
: 5G Wi-Fi 11AC40

	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	33.72	47.21	54.00	-6.79	Average	0.00
2	5149.980	10.14	33.30	29.95	33.91	47.40	54.00	-6.60	Average	0.00
3	5190.000	10.29	33.30	29.94	78.52	92.17	-----	-----	Average	0.00



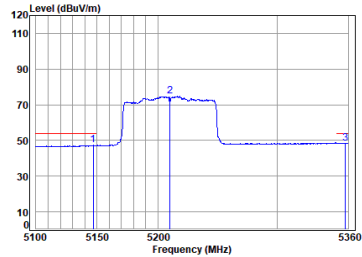
11ac_VHT(80M)_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5210 Band edge
: 5G NR-T1 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Factor
1	5142.270	10.11	33.30	29.95	45.99	59.45	74.00	-14.55	Peak	0.00
2	5210.000	10.32	33.28	29.93	71.12	84.79	68.20	16.59	Peak	0.00
3	5349.682	10.45	33.00	29.89	47.73	61.29	68.20	-6.91	Peak	0.00

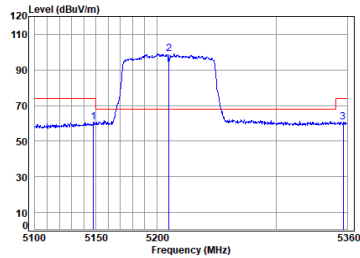
11ac_VHT(80M)_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5210 Band edge
: 5G NR-T1 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Factor
1	5146.619	10.13	33.30	29.95	33.80	47.28	54.00	-6.72	Average	0.00
2	5210.000	10.32	33.28	29.93	61.24	74.91	54.00	20.91	Average	0.00
3	5357.682	10.48	33.02	29.89	34.97	48.58	54.00	-5.42	Average	0.00

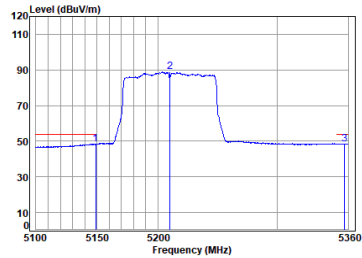
11ac_VHT(80M)_TX_CH_42_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5210 Band edge
: 5G NR-T1 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Factor
1	5147.898	10.13	33.30	29.95	47.05	60.53	74.00	-13.47	Peak	0.00
2	5210.000	10.32	33.28	29.93	85.31	98.98	68.20	30.78	Peak	0.00
3	5356.537	10.47	33.01	29.89	47.13	60.72	74.00	-13.28	Peak	0.00

11ac_VHT(80M)_TX_CH_42_Vertical-Avg

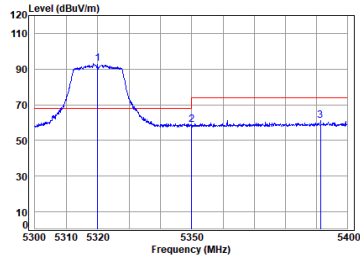


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5210 Band edge
: 5G NR-T1 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Limit	Factor
1	5148.922	10.14	33.30	29.95	34.95	48.44	54.00	-5.56	Average	0.00
2	5210.000	10.32	33.28	29.93	75.10	88.77	54.00	34.77	Average	0.00
3	5356.883	10.47	33.01	29.89	34.94	48.53	54.00	-5.47	Average	0.00



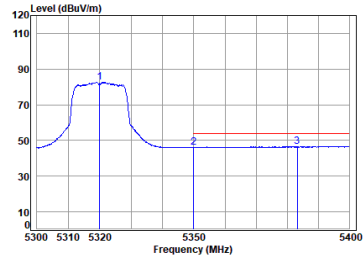
11a_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5320 Band edge
: 5G NR-F1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5320.000	10.35	33.06	29.90	79.54	93.05	68.20	24.85	Peak	0.00	
2	5350.020	10.45	33.00	29.89	45.26	58.82	74.00	-15.18	Peak	0.00	
3	5391.427	10.59	33.08	29.88	47.19	60.98	74.00	-13.02	Peak	0.00	

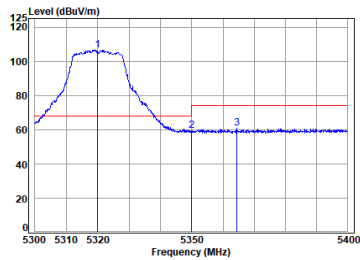
11a_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5320 Band edge
: 5G NR-F1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5320.000	10.35	33.06	29.90	69.07	82.58	-----	Average	0.00		
2	5350.020	10.45	33.00	29.89	32.54	46.10	54.00	-7.90	Average	0.00	
3	pp 5383.271	10.56	33.07	29.88	32.98	46.73	54.00	-7.27	Average	0.00	

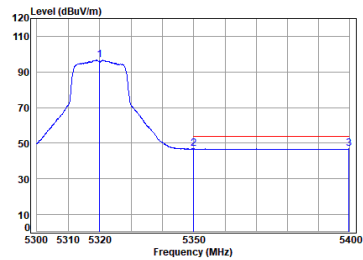
11a_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5320 Band edge
: 5G NR-F1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5320.000	10.35	33.06	29.90	93.08	106.59	68.20	38.39	Peak	0.00	
2	5350.020	10.45	33.00	29.89	45.88	59.44	74.00	-14.56	Peak	0.00	
3	5364.486	10.50	33.03	29.88	47.08	60.73	74.00	-13.27	Peak	0.00	

11a_TX_CH_64_Vertical-Avg

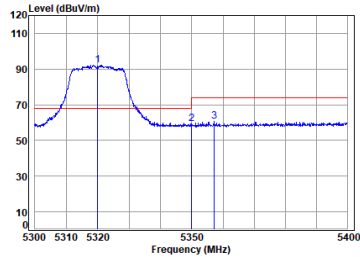


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5320 Band edge
: 5G NR-F1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5320.000	10.35	33.06	29.90	83.08	96.59	-----	Average	0.00		
2	pp 5350.020	10.45	33.00	29.89	33.44	47.00	54.00	-7.00	Average	0.00	
3	5399.899	10.62	33.10	29.87	33.03	46.88	54.00	-7.12	Average	0.00	



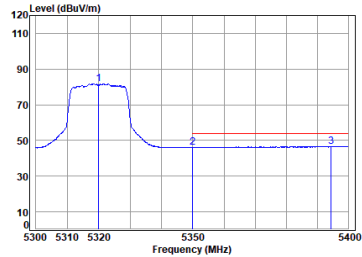
11ac_VHT(20M)_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5320 Band edge
: 5G Wi-Fi 11AC20

	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	78.58	92.09	68.20	23.89	Peak	0.00
2	5350.020	10.45	33.00	29.89	45.72	59.28	74.00	-14.72	Peak	0.00
3	5357.171	10.48	33.01	29.89	47.12	60.72	74.00	-13.28	Peak	0.00

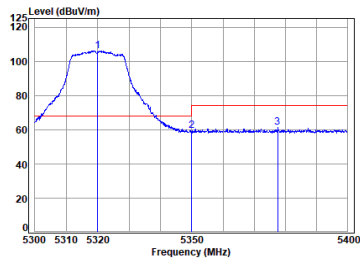
11ac_VHT(20M)_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5320 Band edge
: 5G Wi-Fi 11AC20

	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	68.26	81.77	-----	-----	Average	0.00
2	5350.020	10.45	33.00	29.89	32.57	46.13	54.00	-7.87	Average	0.00
3	5354.552	10.60	33.09	29.88	32.91	46.72	54.00	-7.28	Average	0.00

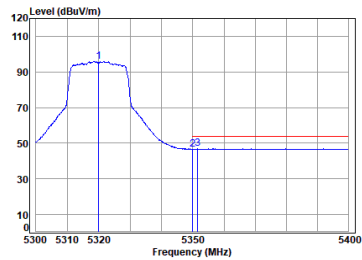
11ac_VHT(20M)_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5320 Band edge
: 5G Wi-Fi 11AC20

	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	92.67	106.18	68.20	37.98	Peak	0.00
2	5350.020	10.45	33.00	29.89	45.65	59.21	74.00	-14.79	Peak	0.00
3	5377.638	10.54	33.06	29.88	47.49	61.21	74.00	-12.79	Peak	0.00

11ac_VHT(20M)_TX_CH_64_Vertical-Avg

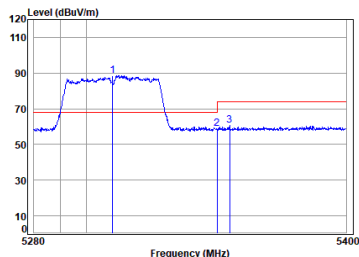


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5320 Band edge
: 5G Wi-Fi 11AC20

	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	82.31	95.82	-----	-----	Average	0.00
2	5350.020	10.45	33.00	29.89	33.16	46.72	54.00	-7.28	Average	0.00
3	5351.566	10.46	33.00	29.89	33.35	46.92	54.00	-7.08	Average	0.00



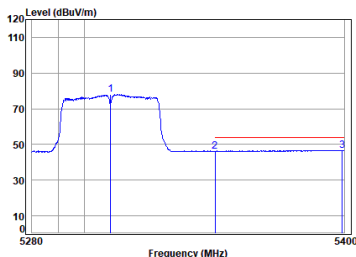
11ac_VHT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5310 Band edge
: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	5310.000	10.31	33.08	29.90	75.11	88.60	68.20	20.40	Peak 0.00
2	5350.020	10.45	33.00	29.89	45.36	58.92	74.00	-15.08	Peak 0.00
3	5354.924	10.47	33.01	29.89	46.89	60.48	74.00	-13.52	Peak 0.00

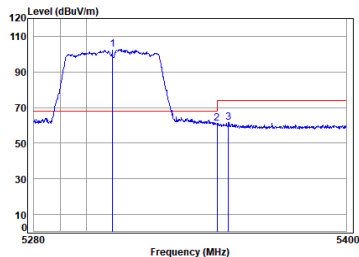
11ac_VHT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5310 Band edge
: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	5310.000	10.31	33.08	29.90	64.39	77.88	-----	Average	0.00
2	5350.020	10.45	33.00	29.89	32.60	46.16	54.00	-7.84	Average 0.00
3	5359.272	10.62	33.10	29.87	32.89	46.74	54.00	-7.26	Average 0.00

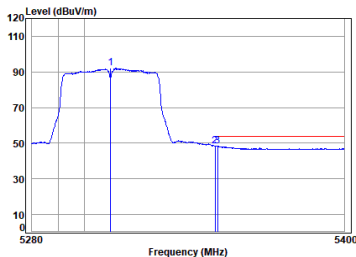
11ac_VHT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5310 Band edge
: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	5310.000	10.31	33.08	29.90	89.24	102.73	68.20	34.53	Peak 0.00
2	5350.020	10.45	33.00	29.89	47.36	60.92	74.00	-13.08	Peak 0.00
3	5354.443	10.47	33.01	29.89	47.91	61.50	74.00	-12.50	Peak 0.00

11ac_VHT(40M)_TX_CH_62_Vertical-Avg

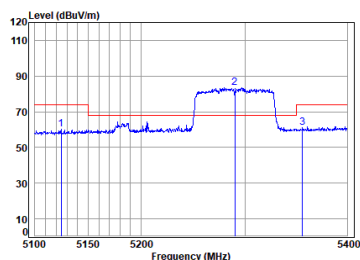


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5310 Band edge
: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	Factor
1	5310.000	10.31	33.08	29.90	78.49	91.98	-----	Average	0.00
2	5350.020	10.45	33.00	29.89	34.94	48.50	54.00	-5.50	Average 0.00
3	5351.075	10.45	33.00	29.89	34.87	48.43	54.00	-5.57	Average 0.00



11ac_VHT(80M)_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL

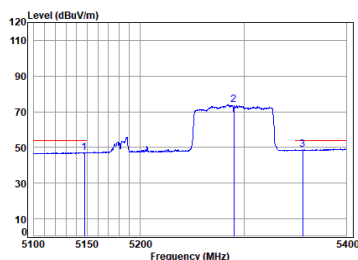
Job No : 01013M0

Mode : 5290 Band edge

: 5G Wi-Fi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5124.545	10.04	33.30	29.96	46.64	60.02	74.00	-13.98	Peak	0.00	
2	5290.000	10.28	33.12	29.91	70.08	83.57	68.20	15.37	Peak	0.00	
3	5356.042	10.47	33.01	29.89	47.53	61.12	74.00	-12.88	Peak	0.00	

11ac_VHT(80M)_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL

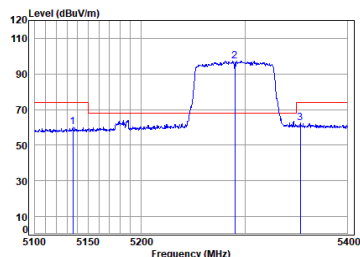
Job No : 01013M0

Mode : 5290 Band edge

: 5G Wi-Fi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5147.443	10.13	33.30	29.95	33.71	47.19	54.00	-6.81	Average	0.00	
2	5290.000	10.28	33.12	29.91	60.29	73.78	68.20	5.58	Average	0.00	
3	5357.267	10.48	33.01	29.89	35.13	48.73	54.00	-5.27	Average	0.00	

11ac_VHT(80M)_TX_CH_58_Vertical-Peak



Condition: 3m VERTICAL

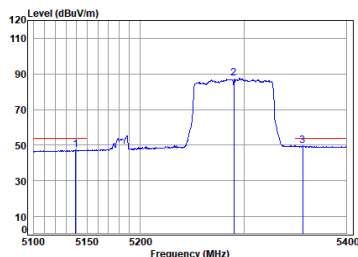
Job No : 01013M0

Mode : 5290 Band edge

: 5G Wi-Fi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5135.688	10.09	33.30	29.96	46.58	60.01	74.00	-13.99	Peak	0.00	
2	5290.000	10.28	33.12	29.91	83.74	97.23	68.20	29.03	Peak	0.00	
3	5353.899	10.46	33.01	29.89	48.77	62.35	74.00	-11.65	Peak	0.00	

11ac_VHT(80M)_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL

Job No : 01013M0

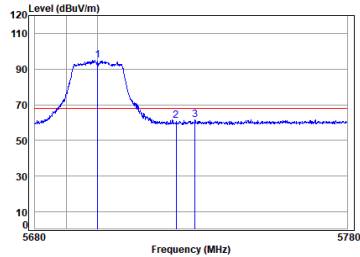
Mode : 5290 Band edge

: 5G Wi-Fi 11AC80

	Freq	Cable Loss	Factor	Ant Factor	Preamp	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1	5139.212	10.10	33.30	29.95	33.79	47.24	54.00	-6.76	Average	0.00	
2	5290.000	10.28	33.12	29.91	74.17	87.66	68.20	19.46	Average	0.00	
3	5357.267	10.48	33.01	29.89	36.04	49.64	54.00	-4.36	Average	0.00	



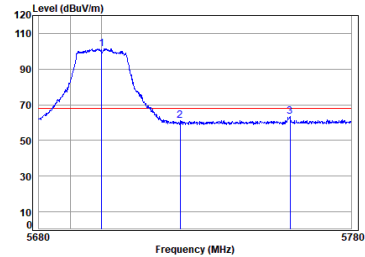
11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5700 Band edge
: 5G NR-F1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5700.000	10.56	33.70	29.78	80.37	94.85	68.20	26.65	Peak	0.00	
2	5725.000	10.68	33.75	29.78	46.54	61.19	68.20	-7.01	Peak	0.00	
3	5731.002	10.70	33.76	29.78	46.89	61.57	68.20	-6.63	Peak	0.00	

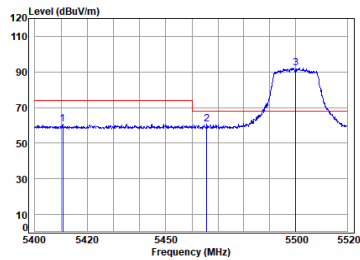
11a_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5700 Band edge
: 5G NR-F1 11A

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5700.000	10.56	33.70	29.78	86.97	101.45	68.20	33.25	Peak	0.00	
2	5725.000	10.68	33.75	29.78	46.62	61.27	68.20	-6.93	Peak	0.00	
3	5708.262	10.84	33.84	29.77	48.44	63.35	68.20	-4.85	Peak	0.00	

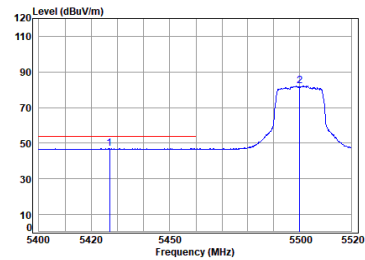
11ac_VHT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5500 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5410.692	10.62	33.10	29.87	46.77	60.62	74.00	-13.38	Peak	0.00	
2	5465.793	10.59	33.10	29.85	46.81	60.65	68.20	-7.55	Peak	0.00	
3	pp 5500.000	10.58	33.10	29.84	78.37	92.21	68.20	24.01	Peak	0.00	

11ac_VHT(20M)_TX_CH_100_Horizontal-Avg

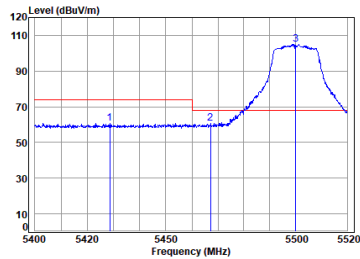


Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5500 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 5426.890	10.61	33.10	29.87	33.18	47.82	54.00	-6.98	Average	0.00	
2	5500.000	10.58	33.10	29.84	68.27	82.11	-----	-----	Average	0.00	



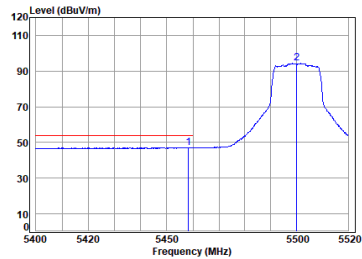
11ac_VHT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5500 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5428.560	10.61	33.10	29.86	46.78	60.63	74.00	-13.37	Peak	0.00	
2	5467.235	10.59	33.10	29.85	46.72	60.56	68.20	-7.64	Peak	0.00	
3	5500.000	10.58	33.10	29.84	91.00	104.84	68.20	36.64	Peak	0.00	

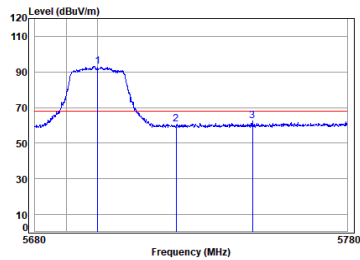
11ac_VHT(20M)_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5500 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5458.230	10.60	33.10	29.86	33.28	47.12	54.00	-6.88	Average	0.00	
2	5500.000	10.58	33.10	29.84	80.47	94.31	68.20	26.11	Average	0.00	

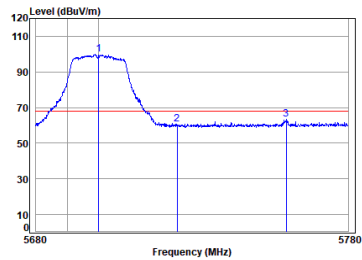
11ac_VHT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5700 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5700.000	10.56	33.70	29.78	78.72	93.20	68.20	25.00	Peak	0.00	
2	5725.000	10.68	33.75	29.78	46.08	60.73	68.20	-7.47	Peak	0.00	
3	5749.516	10.79	33.80	29.77	47.81	62.63	68.20	-5.57	Peak	0.00	

11ac_VHT(20M)_TX_CH_140_Vertical-Peak

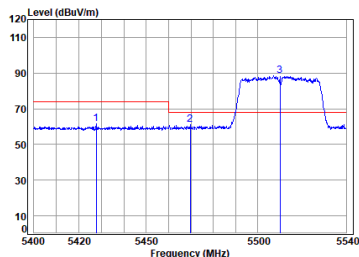


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5700 Band edge
: 5G NR-F1 11AC20

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5700.000	10.56	33.70	29.78	85.35	99.83	68.20	31.63	Peak	0.00	
2	5725.000	10.68	33.75	29.78	46.04	60.69	68.20	-7.51	Peak	0.00	
3	5768.061	10.84	33.84	29.77	48.37	63.28	68.20	-4.92	Peak	0.00	



11ac_VHT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL

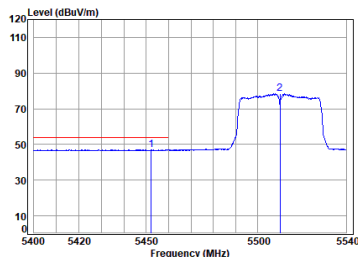
Job No : 01013M0

Mode : 5510 Band edge

: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5427.714	10.61	33.10	29.86	47.74	61.59	74.00	-12.41	Peak	0.00	
2	5469.692	10.59	33.10	29.85	47.09	60.93	68.20	-7.27	Peak	0.00	
3 pp	5510.000	10.56	33.10	29.84	74.75	88.57	68.20	20.37	Peak	0.00	

11ac_VHT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL

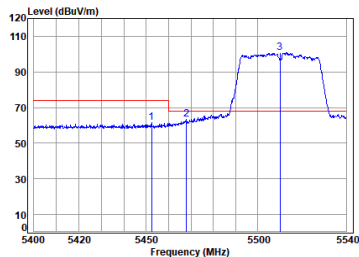
Job No : 01013M0

Mode : 5510 Band edge

: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5452.220	10.60	33.10	29.86	33.28	47.12	54.00	-6.88	Average	0.00	
2	5510.000	10.56	33.10	29.84	64.51	78.33	68.20	10.13	Average	0.00	

11ac_VHT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL

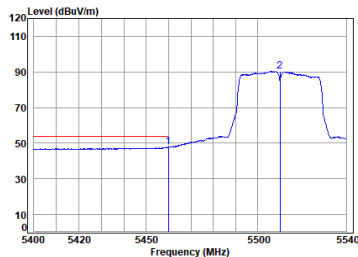
Job No : 01013M0

Mode : 5510 Band edge

: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5452.360	10.60	33.10	29.86	47.71	61.55	74.00	-12.45	Peak	0.00	
2	5467.873	10.59	33.10	29.85	49.72	63.56	68.20	-4.64	Peak	0.00	
3 pp	5510.000	10.56	33.10	29.84	87.14	100.96	68.20	32.76	Peak	0.00	

11ac_VHT(40M)_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL

Job No : 01013M0

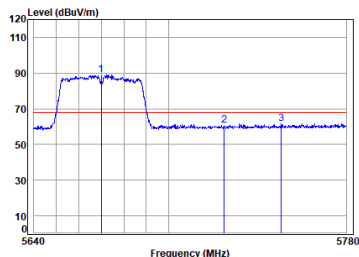
Mode : 5510 Band edge

: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5459.901	10.60	33.10	29.86	33.90	47.74	54.00	-6.26	Average	0.00	
2	5510.000	10.56	33.10	29.84	76.42	90.24	68.20	22.04	Average	0.00	



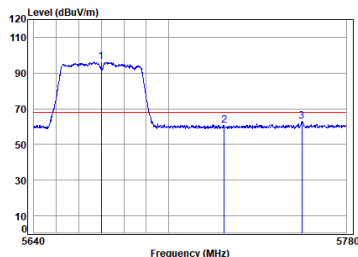
11ac_VHT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5670 Band edge
: 5G NR-F1 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5670.000	10.52	33.52	29.79	74.55	88.80	68.20	20.60	Peak	0.00
2	5725.000	10.68	33.75	29.78	45.86	60.51	68.20	-7.69	Peak	0.00
3	5750.597	10.79	33.80	29.77	46.80	61.62	68.20	-6.58	Peak	0.00

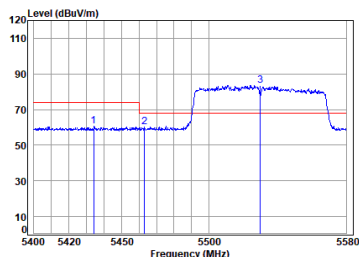
11ac_VHT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5670 Band edge
: 5G NR-F1 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5670.000	10.52	33.52	29.79	81.92	96.17	68.20	27.97	Peak	0.00
2	5725.000	10.68	33.75	29.78	46.07	60.72	68.20	-7.48	Peak	0.00
3	5759.910	10.84	33.84	29.77	47.84	62.75	68.20	-5.45	Peak	0.00

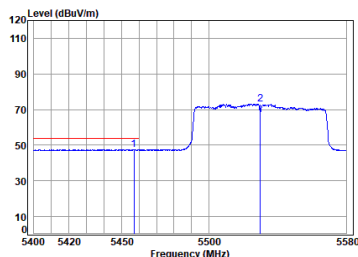
11ac_VHT(80M)_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5530 Band edge
: 5G NR-F1 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5434.104	10.61	33.10	29.86	46.62	60.47	74.00	-13.53	Peak	0.00
2	5463.046	10.59	33.10	29.85	46.58	60.42	68.20	-7.78	Peak	0.00
3	5530.000	10.53	33.10	29.83	69.87	83.67	68.20	15.47	Peak	0.00

11ac_VHT(80M)_TX_CH_106_Horizontal-Avg

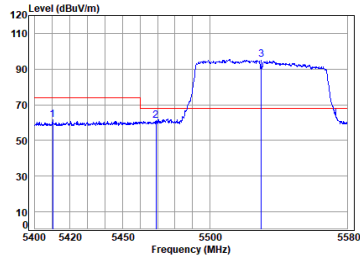


Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5530 Band edge
: 5G NR-F1 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5457.138	10.60	33.10	29.86	33.76	47.60	54.00	-6.40	Average	0.00
2	5530.000	10.53	33.10	29.83	59.40	73.20	-----	-----	Average	0.00



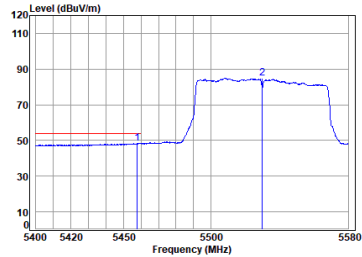
11ac_VHT(80M)_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5530 Band edge
: 5G NR-F1 11AC80

	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	5410.102	10.62	33.10	29.87	47.54	61.39	74.00	-12.61	Peak	0.00
2	5469.140	10.59	33.10	29.85	47.23	61.07	68.20	-7.13	Peak	0.00
3	5530.000	10.53	33.10	29.83	81.50	95.30	68.20	27.10	Peak	0.00

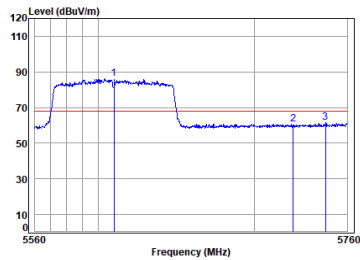
11ac_VHT(80M)_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5530 Band edge
: 5G NR-F1 11AC80

	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	5457.854	10.60	33.10	29.86	34.62	48.46	54.00	-5.54	Average	0.00
2	5530.000	10.53	33.10	29.83	71.22	85.02	68.20	16.82	Average	0.00

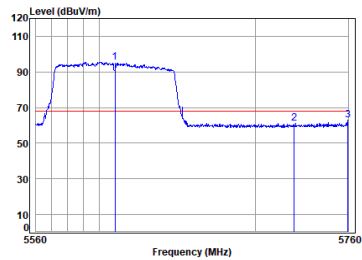
11ac_VHT(80M)_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5610 Band edge
: 5G NR-F1 11AC80

	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	5610.000	10.43	33.40	29.81	72.08	86.10	68.20	17.90	Peak	0.00
2	5725.000	10.68	33.75	29.78	45.90	60.55	68.20	-7.65	Peak	0.00
3	5745.972	10.77	33.79	29.77	46.68	61.47	68.20	-6.73	Peak	0.00

11ac_VHT(80M)_TX_CH_122_Vertical-Peak

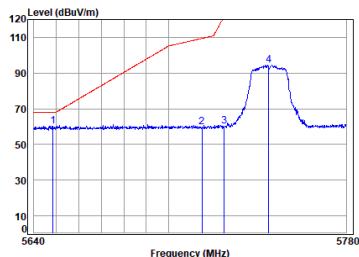


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5610 Band edge
: 5G NR-F1 11AC80

	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	5610.000	10.43	33.40	29.81	81.40	95.42	68.20	27.22	Peak	0.00
2	5725.000	10.68	33.75	29.78	46.27	60.92	68.20	-7.28	Peak	0.00
3	5759.796	10.84	33.84	29.77	47.90	62.81	68.20	-5.39	Peak	0.00



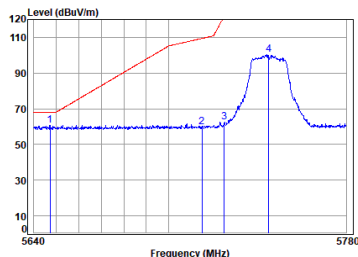
11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5745 Band edge
: 5.86 Wi-Fi 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5648.442	10.48	33.40	29.80	46.20	60.28	68.20	-7.92	Peak	0.00
2	5715.000	10.63	33.73	29.78	45.36	59.94	109.40	-49.46	Peak	0.00
3	5725.000	10.68	33.75	29.78	45.77	60.42	122.20	-61.78	Peak	0.00
4	5745.000	10.77	33.79	29.77	79.74	94.53	-----	-----	Peak	0.00

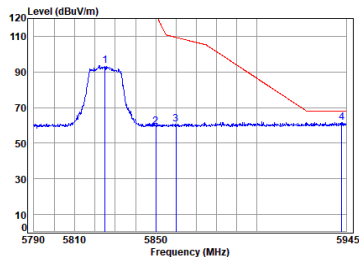
11a_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5745 Band edge
: 5.86 Wi-Fi 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5647.196	10.48	33.40	29.80	46.39	60.47	68.20	-7.73	Peak	0.00
2	5715.000	10.63	33.73	29.78	45.33	59.91	109.40	-49.49	Peak	0.00
3	5725.000	10.68	33.75	29.78	47.74	62.39	122.20	-59.81	Peak	0.00
4	5745.000	10.77	33.79	29.77	85.39	100.18	-----	-----	Peak	0.00

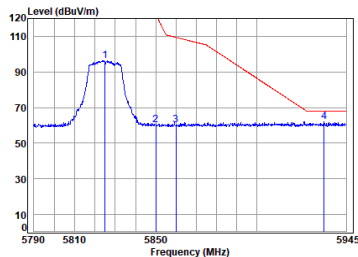
11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5825 Band edge
: 5.86 Wi-Fi 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5825.000	10.99	34.10	29.75	78.23	93.57	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	44.02	59.43	122.20	-62.77	Peak	0.00
3	5860.000	10.94	34.22	29.74	45.06	60.48	109.40	-48.92	Peak	0.00
4	5942.802	10.86	34.21	29.72	46.33	61.68	68.20	-6.52	Peak	0.00

11a_TX_CH_165_Vertical

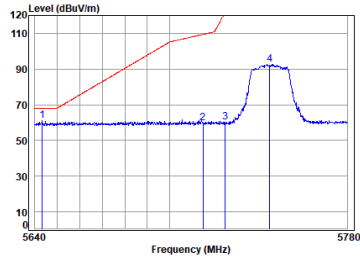


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5825 Band edge
: 5.86 Wi-Fi 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5825.000	10.99	34.10	29.75	80.99	96.33	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	44.75	60.16	122.20	-62.04	Peak	0.00
3	5860.000	10.94	34.22	29.74	44.74	60.16	109.40	-49.24	Peak	0.00
4	5933.859	10.86	34.23	29.72	46.64	62.01	68.20	-6.19	Peak	0.00



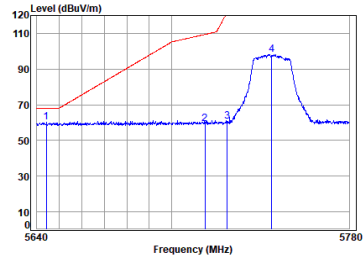
11ac_VHT(20M)_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5745 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5643.320	10.48	33.40	29.80	47.02	61.10	68.20	-7.10	Peak	0.00
2	5715.000	10.63	33.73	29.78	45.10	59.68	109.40	-49.72	Peak	0.00
3	5725.000	10.68	33.75	29.78	45.50	60.15	122.20	-62.05	Peak	0.00
4	5745.000	10.77	33.79	29.77	78.05	92.04	-----	-----	Peak	0.00

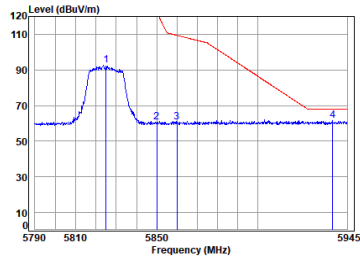
11ac_VHT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5745 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5644.289	10.48	33.40	29.80	46.32	60.40	68.20	-7.80	Peak	0.00
2	5715.000	10.63	33.73	29.78	44.82	59.40	109.40	-50.00	Peak	0.00
3	5725.000	10.68	33.75	29.78	46.19	60.84	122.20	-61.36	Peak	0.00
4	5745.000	10.77	33.79	29.77	83.28	96.87	-----	-----	Peak	0.00

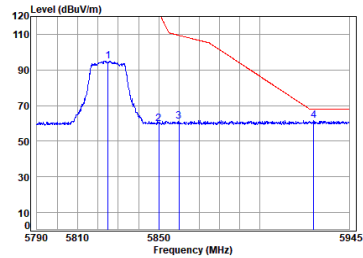
11ac_VHT(20M)_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5825 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5825.000	10.99	34.10	29.75	77.12	92.46	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	45.39	60.80	122.20	-61.40	Peak	0.00
3	5860.000	10.94	34.22	29.74	45.40	60.82	109.40	-48.58	Peak	0.00
4	5937.623	10.86	34.22	29.72	46.37	61.73	68.20	-6.47	Peak	0.00

11ac_VHT(20M)_TX_CH_165_Vertical

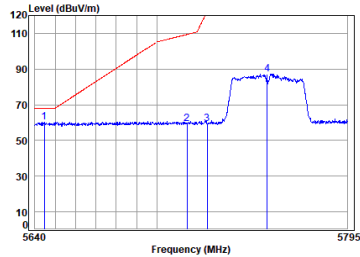


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5825 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5825.000	10.99	34.10	29.75	79.74	95.08	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	44.42	59.83	122.20	-62.37	Peak	0.00
3	5860.000	10.94	34.22	29.74	45.56	60.98	109.40	-48.42	Peak	0.00
4	5927.123	10.87	34.25	29.72	46.10	61.50	68.20	-6.70	Peak	0.00



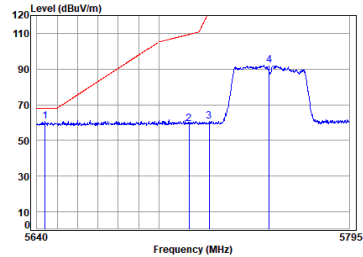
11ac_VHT(40M)_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5755 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5644.589	10.48	33.40	29.80	46.20	68.28	68.20	-7.92 Peak	0.00
2	5715.000	10.63	33.73	29.78	44.88	59.38	109.40	-50.02 Peak	0.00
3	5725.000	10.68	33.75	29.78	44.88	59.53	122.20	-62.67 Peak	0.00
4	5755.000	10.81	33.82	29.77	72.43	87.29	-----	----- Peak	0.00

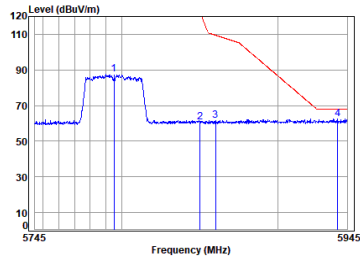
11ac_VHT(40M)_TX_CH_151_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5755 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5644.130	10.48	33.40	29.80	46.72	68.80	68.20	-7.40 Peak	0.00
2	5715.000	10.63	33.73	29.78	44.78	59.36	109.40	-50.04 Peak	0.00
3	5725.000	10.68	33.75	29.78	45.99	60.64	122.20	-61.56 Peak	0.00
4	5755.000	10.81	33.82	29.77	77.25	92.11	-----	----- Peak	0.00

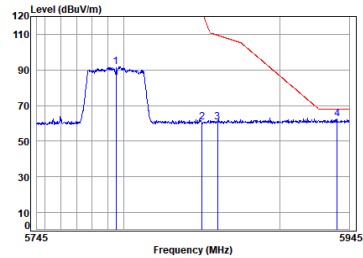
11ac_VHT(40M)_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5795 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5795.000	11.00	33.98	29.76	72.16	87.38	-----	----- Peak	0.00
2	5850.000	10.95	34.20	29.74	45.28	60.69	122.20	-61.51 Peak	0.00
3	5860.000	10.94	34.22	29.74	46.01	61.43	109.40	-47.97 Peak	0.00
4	5938.900	10.86	34.22	29.72	47.31	62.67	68.20	-5.53 Peak	0.00

11ac_VHT(40M)_TX_CH_159_Vertical

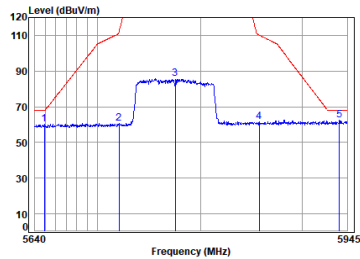


Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5795 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	5795.000	11.00	33.98	29.76	76.40	91.62	-----	----- Peak	0.00
2	5850.000	10.95	34.20	29.74	45.33	60.74	122.20	-61.46 Peak	0.00
3	5860.000	10.94	34.22	29.74	45.35	60.77	109.40	-48.63 Peak	0.00
4	5937.274	10.86	34.23	29.72	46.95	62.32	68.20	-5.88 Peak	0.00



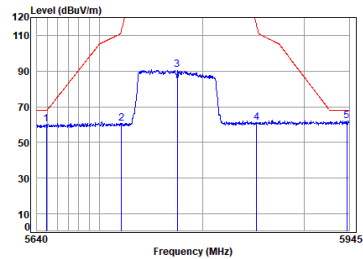
11ac_VHT(80M)_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL
Job No : 01013M0
Mode : 5775 Band edge

		Cable	Ant	Preamp	Read	Limit	Over		Aux
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5649.216	10.48	33.40	29.80	46.28	60.36	-7.84 Peak	0.00	
2	5720.773	10.66	33.74	29.78	45.97	60.59	-112.56 Peak	0.00	
3	5775.000	10.91	33.90	29.76	70.75	85.00	----- Peak	0.00	
4	5857.357	10.95	34.21	29.74	46.02	61.44	-110.14 Peak	0.00	
5	5937.178	10.86	34.23	29.72	46.94	62.31	-68.20 Peak	0.00	

11ac_VHT(80M)_TX_CH_155_Vertical



Condition: 3m VERTICAL
Job No : 01013M0
Mode : 5775 Band edge

		Cable	Ant	Preamp	Read	Limit	Over		Aux
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5648.918	10.48	33.40	29.80	46.02	60.10	-68.20 Peak	0.00	
2	5721.075	10.66	33.74	29.78	46.14	60.76	-113.25 Peak	0.00	
3	5775.000	10.91	33.90	29.76	75.52	90.57	----- Peak	0.00	
4	5853.041	10.95	34.21	29.74	45.89	61.31	-115.27 Peak	0.00	
5	5942.496	10.86	34.21	29.72	46.75	62.10	-68.20 Peak	0.00	



6.3 Duty Cycle

Test Requirement: ANSI C63.10 (2020) Section 12.2
 Test Method: ANSI C63.10 (2020) Section 12.2
 Test Engineer: Mingli Hu

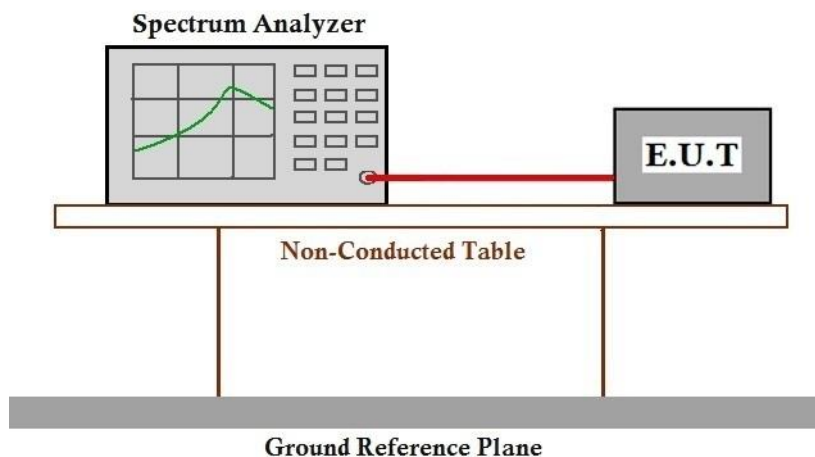
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.6 °C Humidity: 41.1 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

6.4 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: Mingli Hu

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.

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C

Humidity: 41.1 % RH

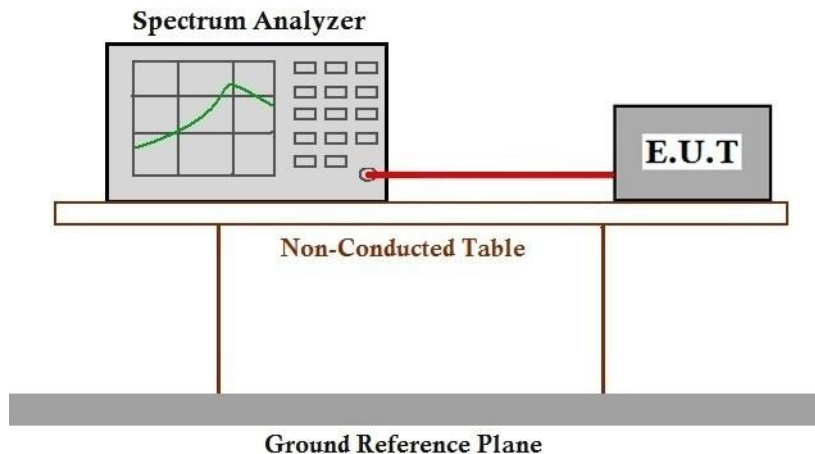
Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

$$\text{AV Output power Level} = \text{Reading level} + \text{Cable loss} + \text{DCCF}$$

Please Refer to Appendix for Details

6.5 Power Spectral Density

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

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

Test Engineer: Mingli Hu

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.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C

Humidity: 41.1 % RH

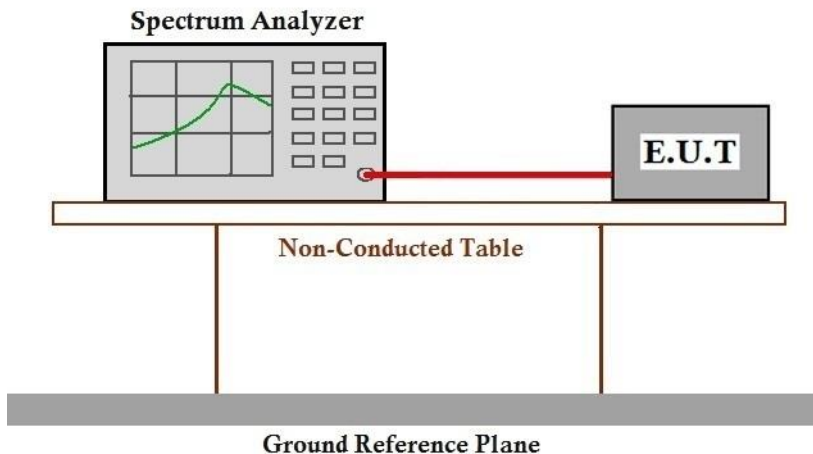
Atmospheric Pressure: 1010 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



6.5.3 Test Setup Diagram



6.5.4 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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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch
Inspection & Testing Services

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.ssgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2603001013MO

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2603001013MO



9 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.030	2.065	98.31	0.07	0.04
		5200	2.030	2.065	98.31	0.07	0.04
		5240	2.030	2.065	98.31	0.07	0.07
		5260	2.030	2.065	98.31	0.07	0.04
		5300	2.030	2.065	98.31	0.07	0.04
		5320	2.030	2.065	98.31	0.07	0.04
		5500	2.030	2.065	98.31	0.07	0.04
		5580	2.030	2.065	98.31	0.07	0.04
		5700	2.030	2.065	98.31	0.07	0.04
		5745	2.030	2.065	98.31	0.07	0.04
		5785	2.030	2.065	98.31	0.07	0.04
		5825	2.029	2.065	98.26	0.08	0.04
802.11n (HT20)	SISO	5180	1.890	1.926	98.13	0.08	0.03
		5200	1.890	1.925	98.18	0.08	0.03
		5240	1.890	1.925	98.18	0.08	0.00
		5260	1.890	1.926	98.13	0.08	0.03
		5300	1.890	1.926	98.13	0.08	0.03
		5320	1.890	1.925	98.18	0.08	0.03
		5500	1.890	1.926	98.13	0.08	0.03
		5580	1.889	1.924	98.18	0.08	0.04
		5700	1.889	1.924	98.18	0.08	0.03
		5745	1.889	1.925	98.13	0.08	0.03
		5785	1.890	1.925	98.18	0.08	0.03
		5825	1.890	1.925	98.18	0.08	0.03
802.11n (HT40)	SISO	5190	0.930	0.964	96.47	0.16	0.03
		5230	0.930	0.964	96.47	0.16	0.00
		5270	0.929	0.964	96.37	0.16	0.07
		5310	0.930	0.964	96.47	0.16	0.00



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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		5510	0.929	0.964	96.37	0.16	0.03
		5550	0.929	0.964	96.37	0.16	0.00
		5670	0.929	0.964	96.37	0.16	0.00
		5755	0.930	0.964	96.47	0.16	0.03
		5795	0.929	0.964	96.37	0.16	0.03
802.11ac (VHT20)	SISO	5180	1.901	1.937	98.14	0.08	0.04
		5200	1.902	1.938	98.14	0.08	0.03
		5240	1.901	1.936	98.19	0.08	0.03
		5260	1.902	1.937	98.19	0.08	0.03
		5300	1.902	1.937	98.19	0.08	0.03
		5320	1.902	1.937	98.19	0.08	0.03
		5500	1.902	1.937	98.19	0.08	0.03
		5580	1.901	1.937	98.14	0.08	0.03
		5700	1.902	1.938	98.14	0.08	0.03
		5745	1.901	1.936	98.19	0.08	0.03
		5785	1.902	1.937	98.19	0.08	0.03
		5825	1.902	1.937	98.19	0.08	0.03
802.11ac (VHT40)	SISO	5190	0.938	0.972	96.50	0.15	0.03
		5230	0.937	0.972	96.40	0.16	0.03
		5270	0.937	0.972	96.40	0.16	0.00
		5310	0.938	0.972	96.50	0.15	0.03
		5510	0.937	0.972	96.40	0.16	0.04
		5550	0.937	0.972	96.40	0.16	0.00
		5670	0.937	0.972	96.40	0.16	0.00
		5755	0.937	0.972	96.40	0.16	0.00
		5795	0.937	0.972	96.40	0.16	0.03
802.11ac (VHT80)	SISO	5210	0.457	0.492	92.89	0.32	0.03
		5290	0.457	0.492	92.89	0.32	0.07
		5530	0.457	0.492	92.89	0.32	0.06
		5610	0.457	0.492	92.89	0.32	0.07
		5775	0.456	0.492	92.68	0.33	0.07



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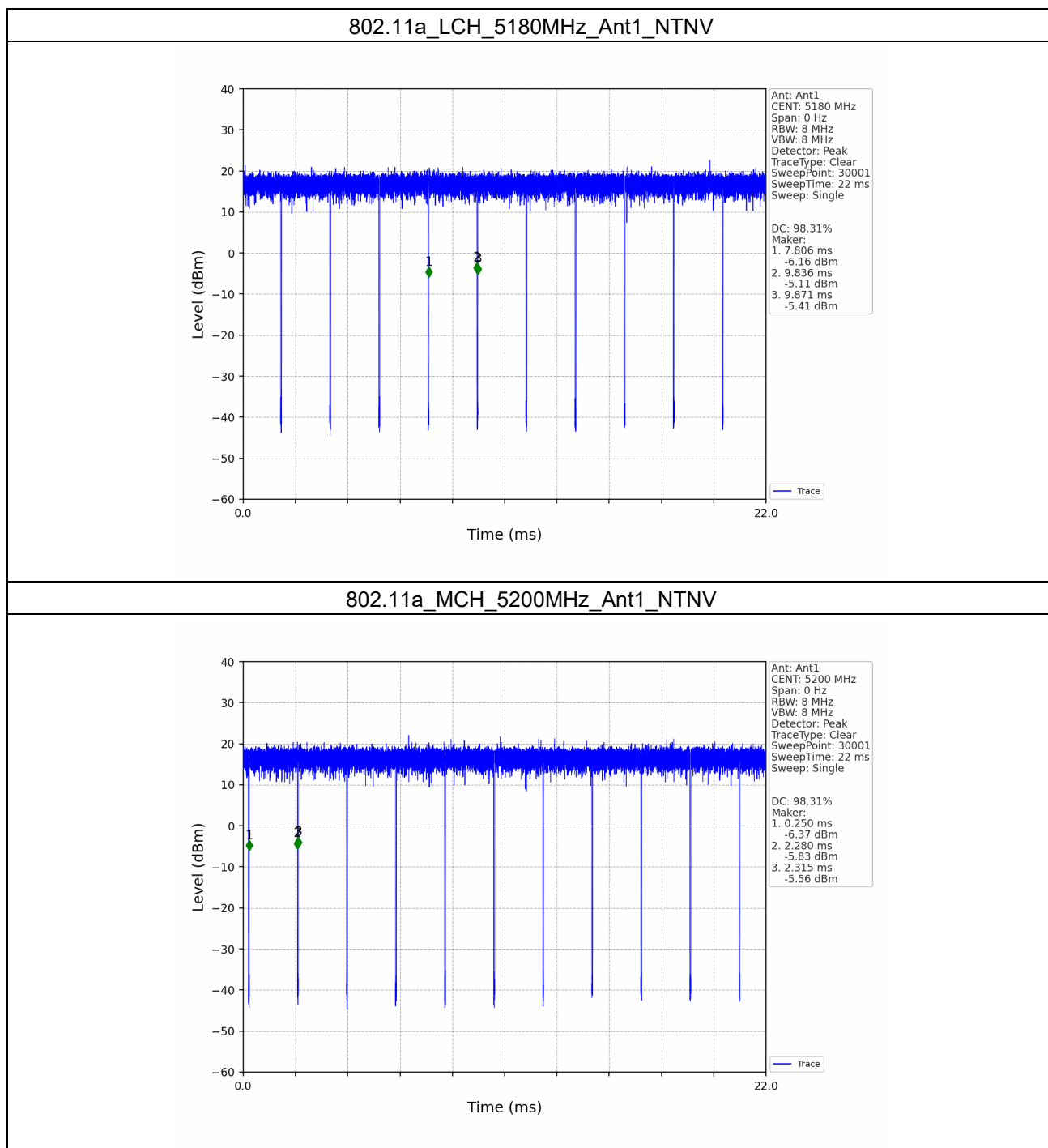
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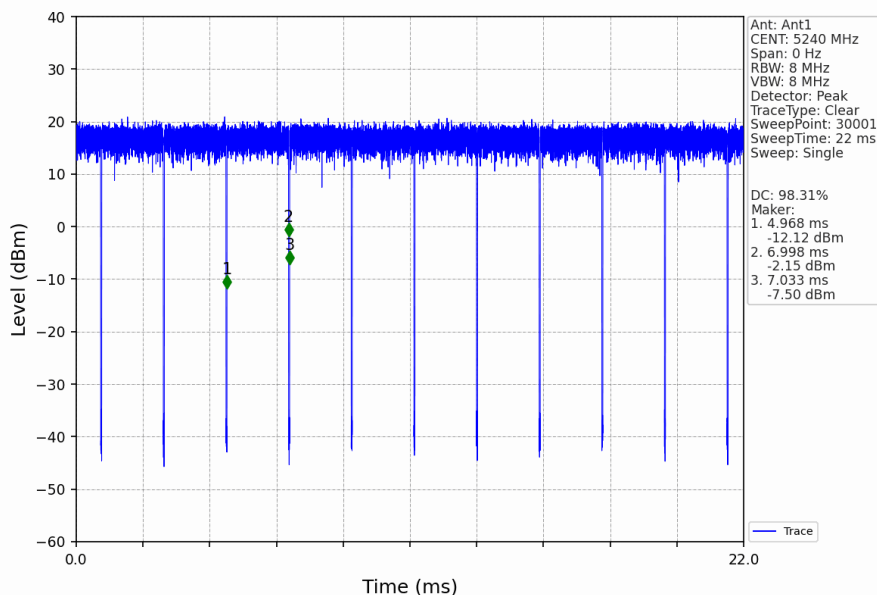
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1.2 Test Graph

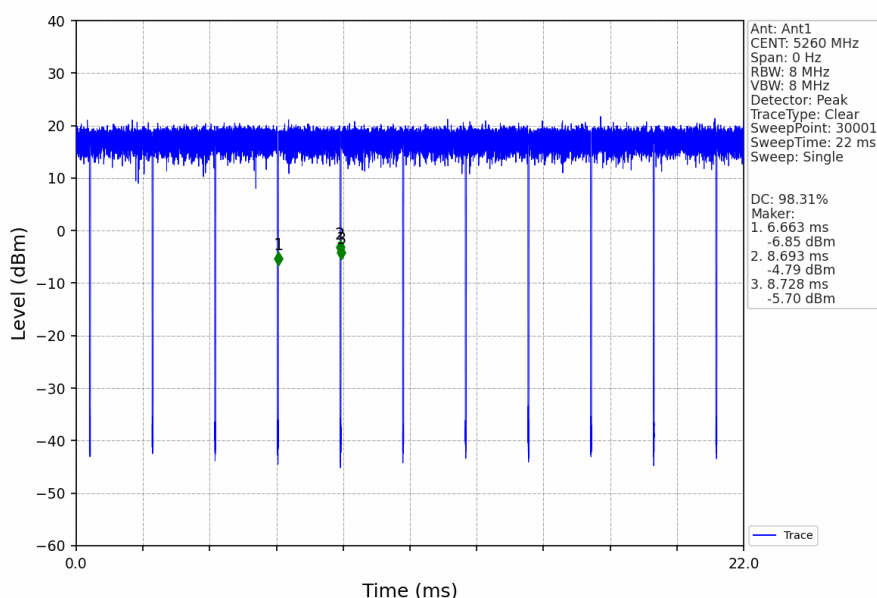
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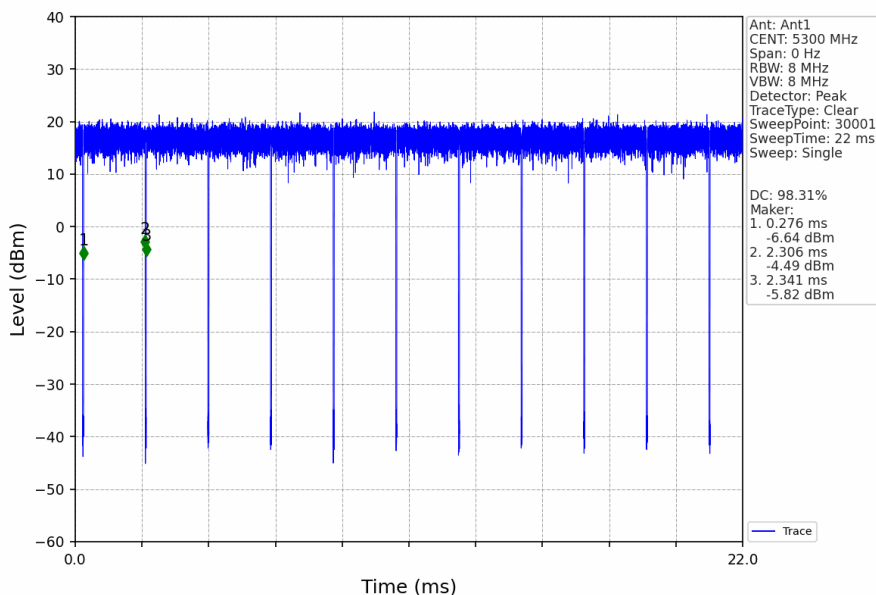
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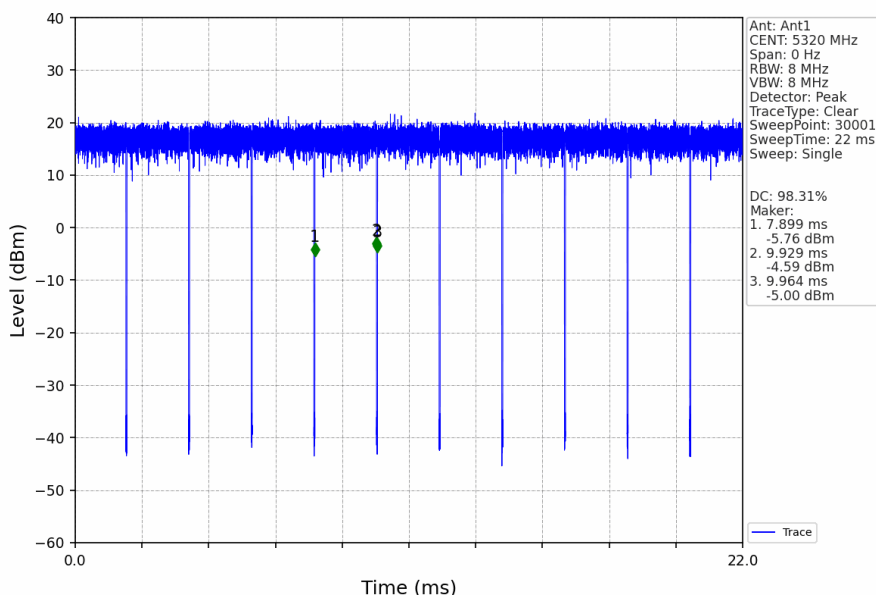
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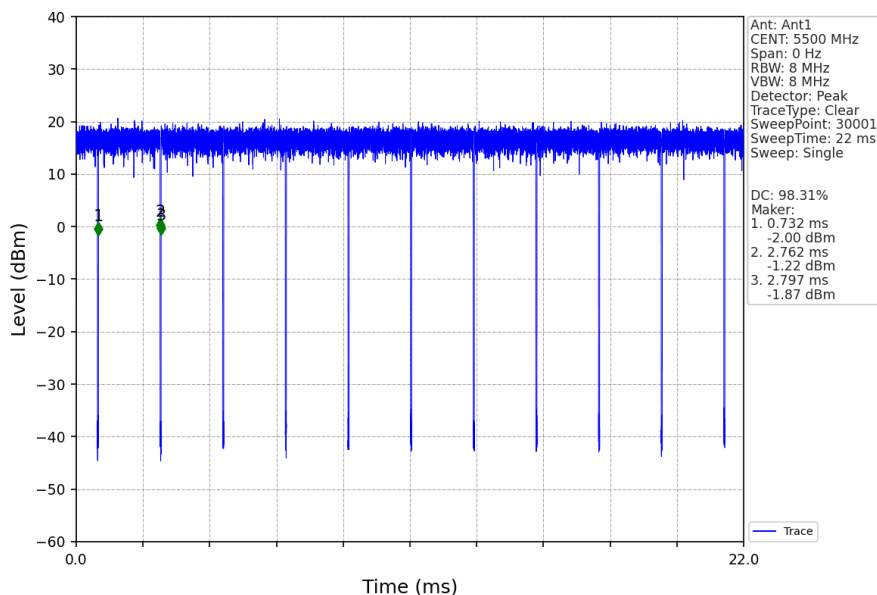
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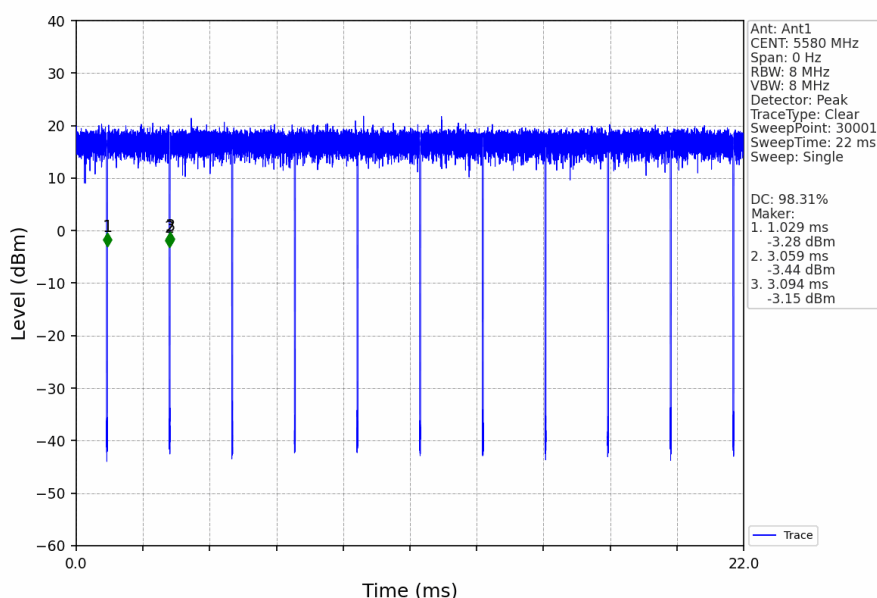
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



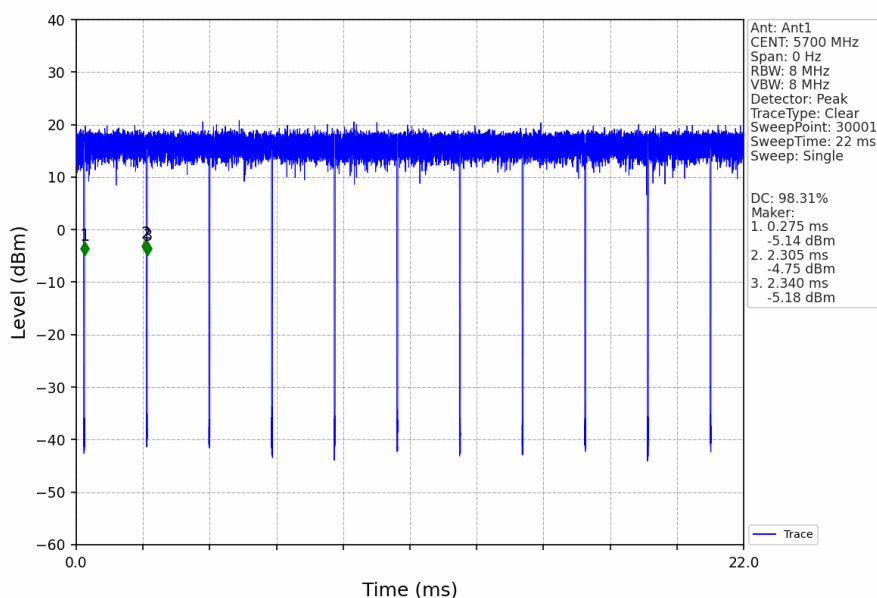
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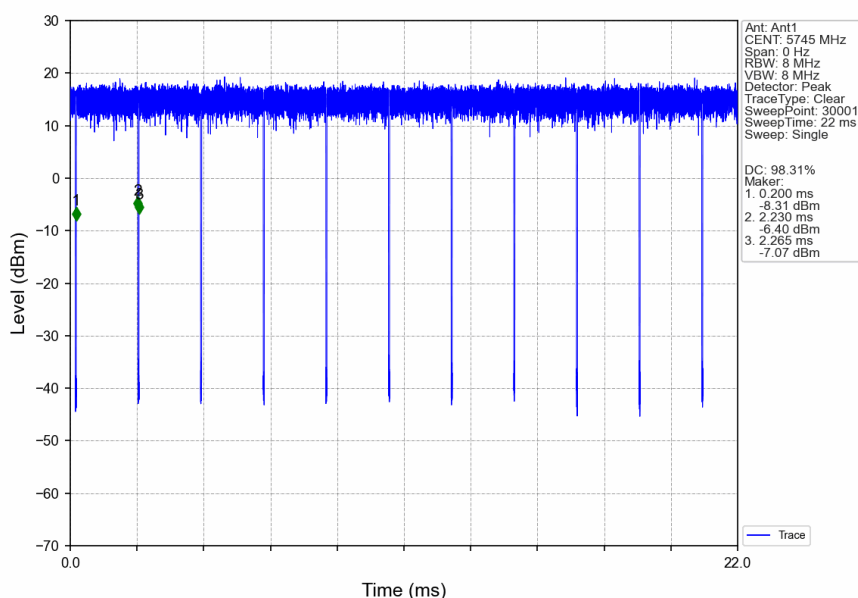
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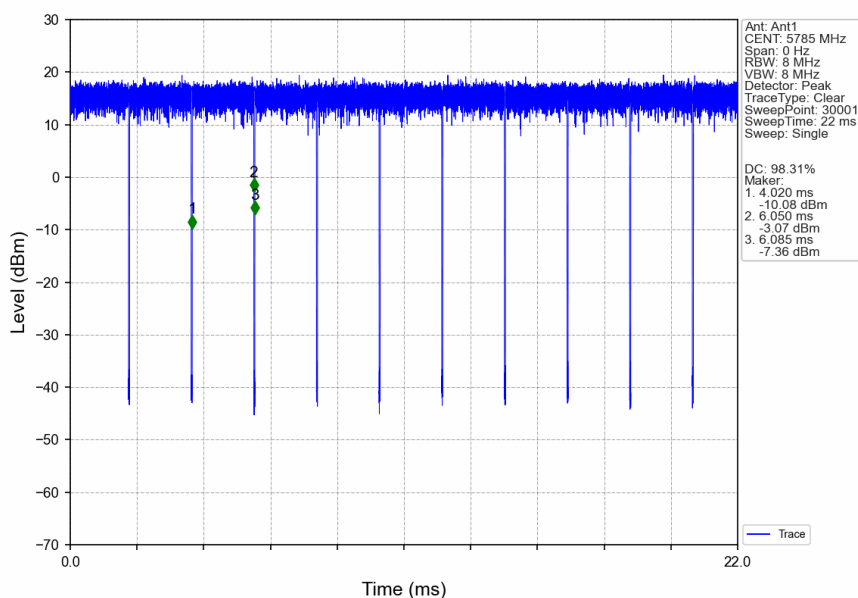
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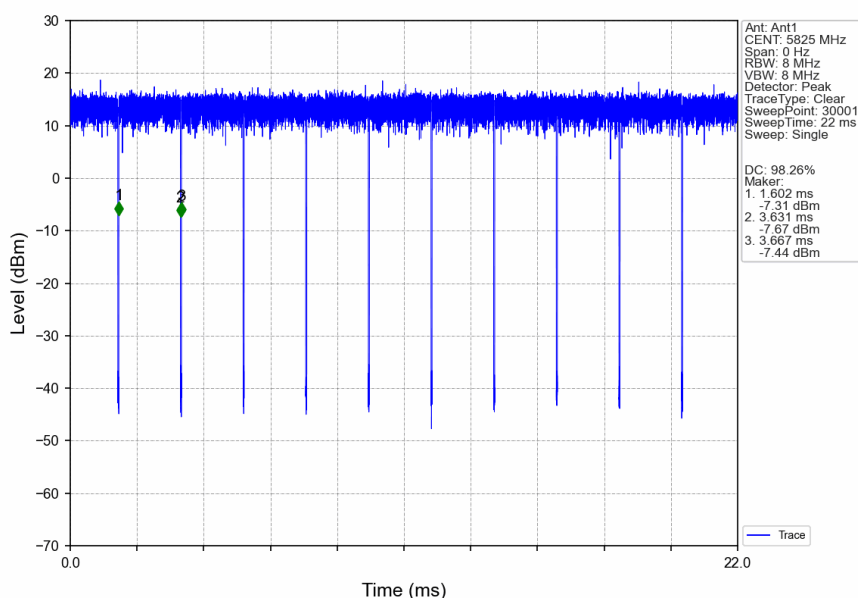
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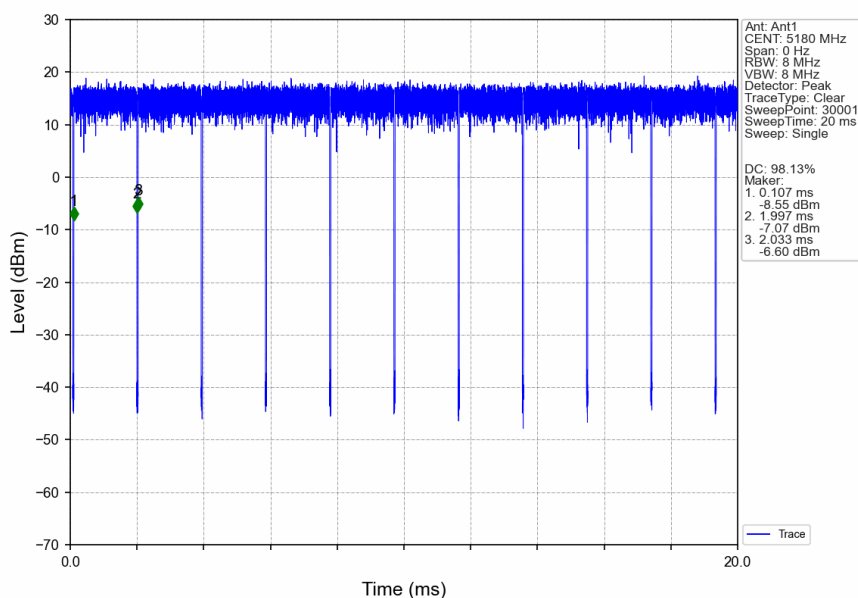
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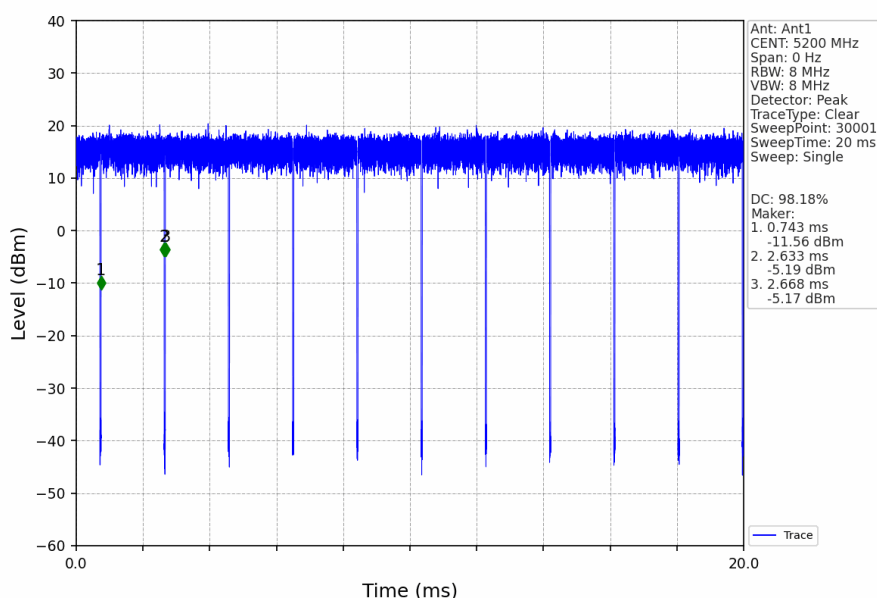
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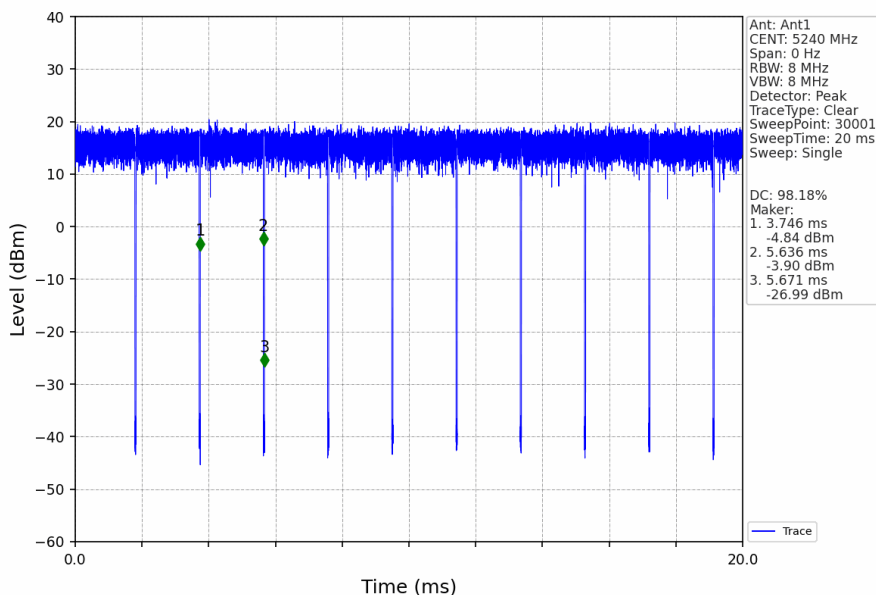
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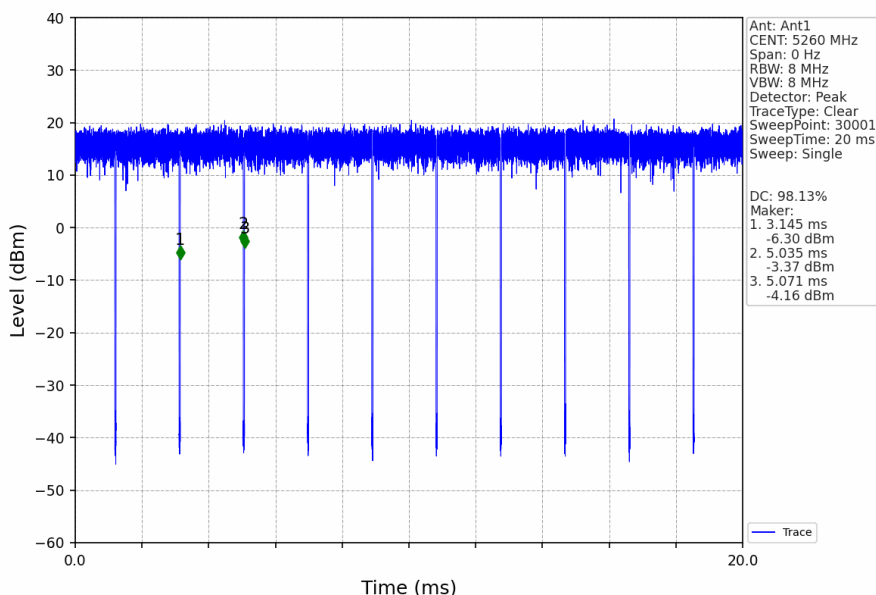
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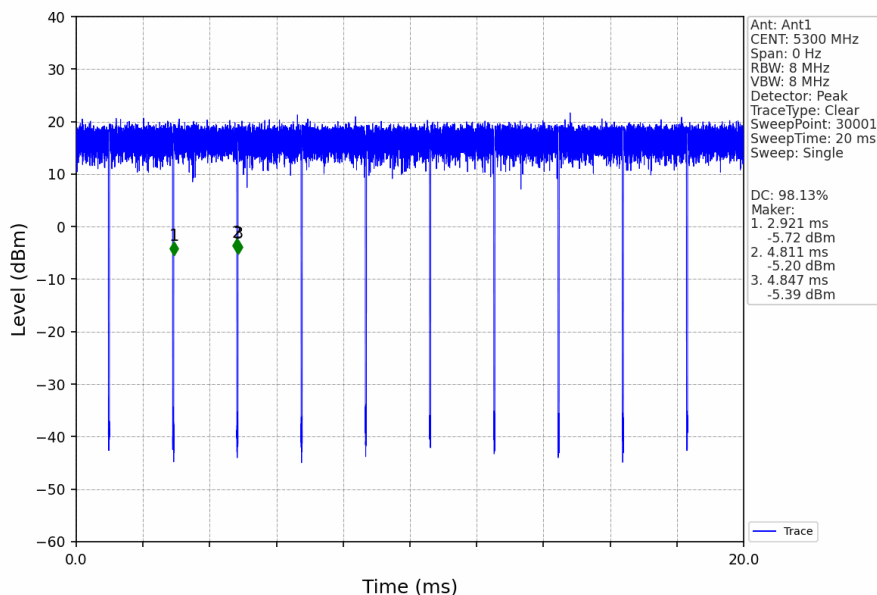
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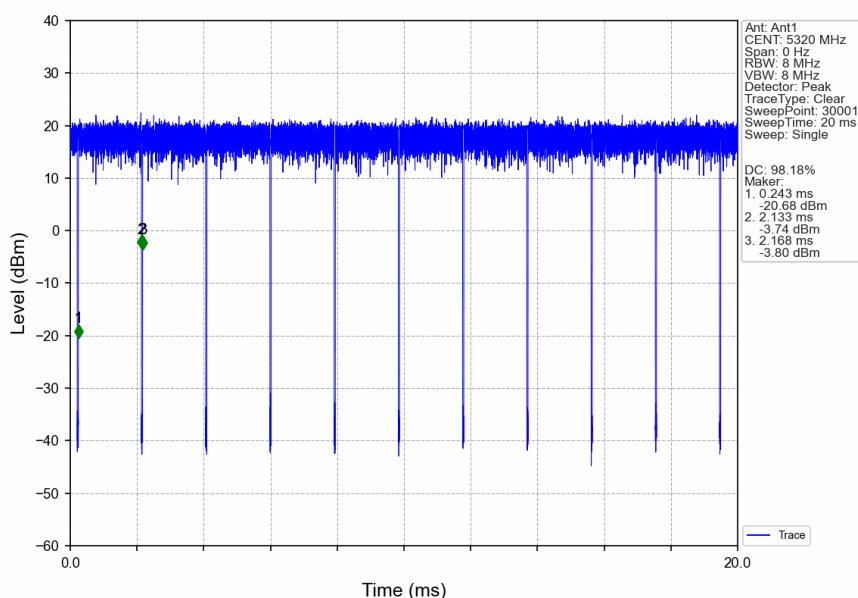
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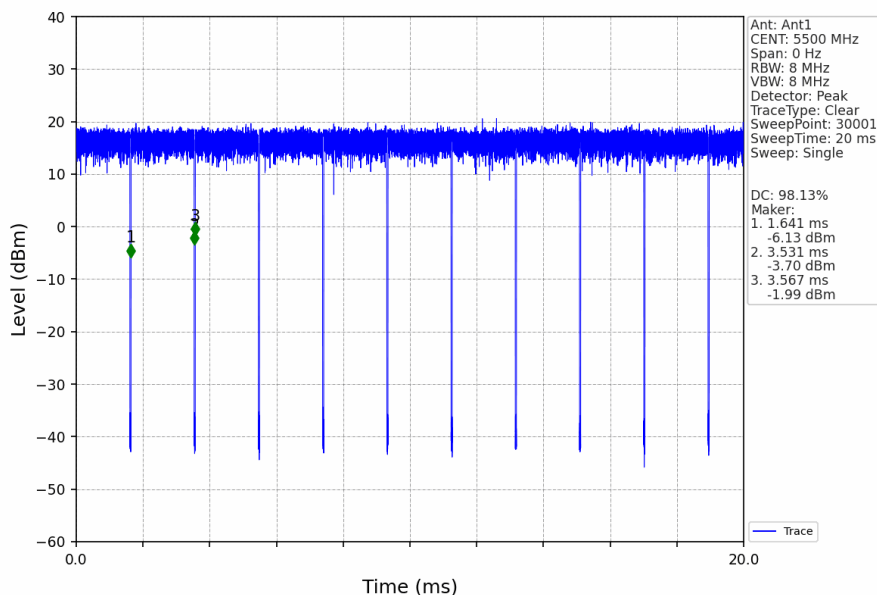
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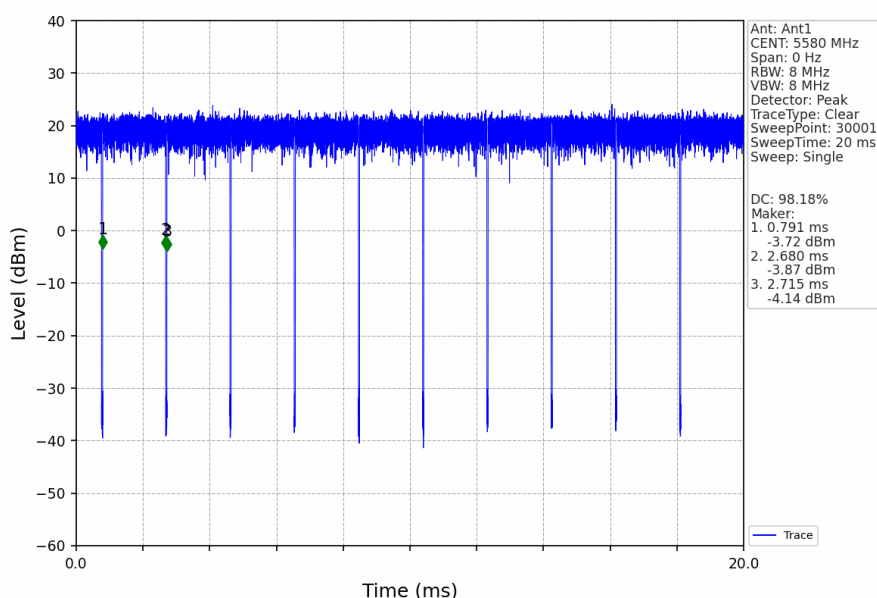
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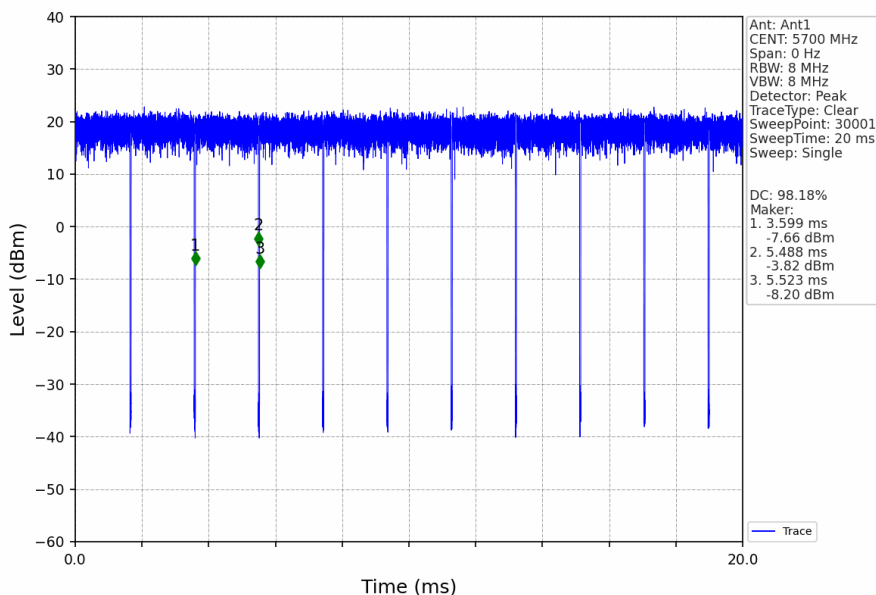
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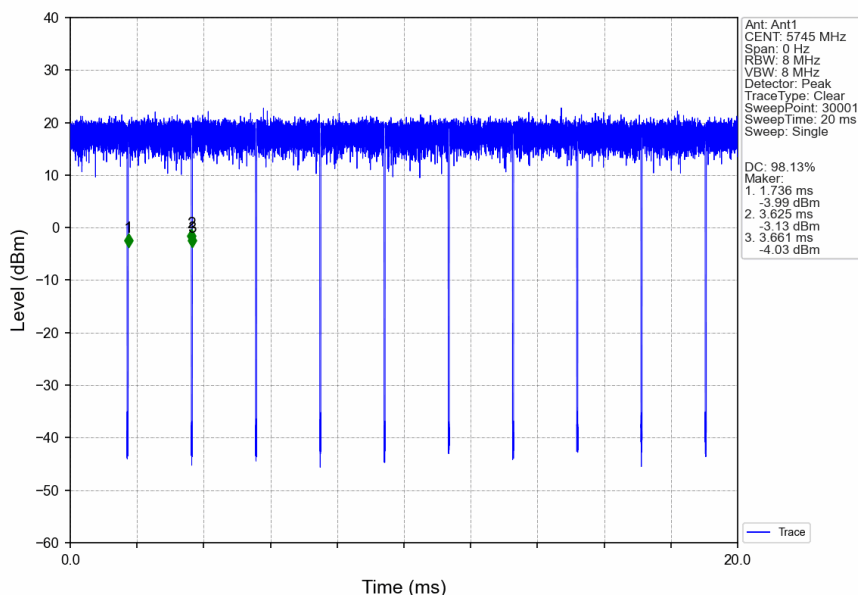
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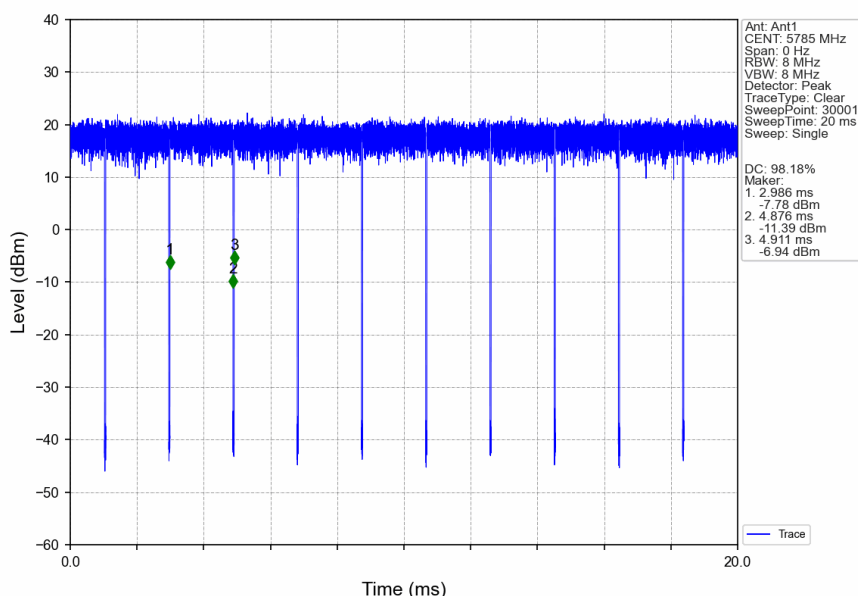
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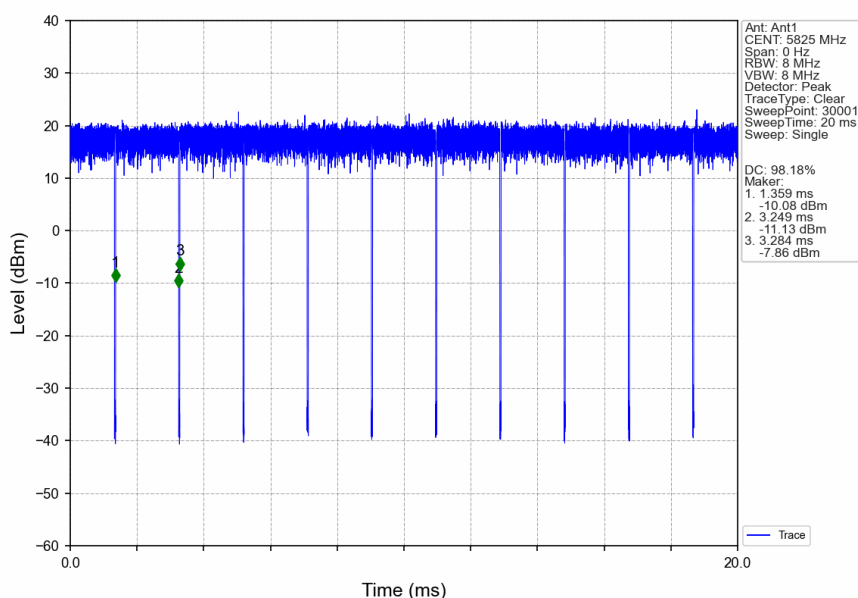
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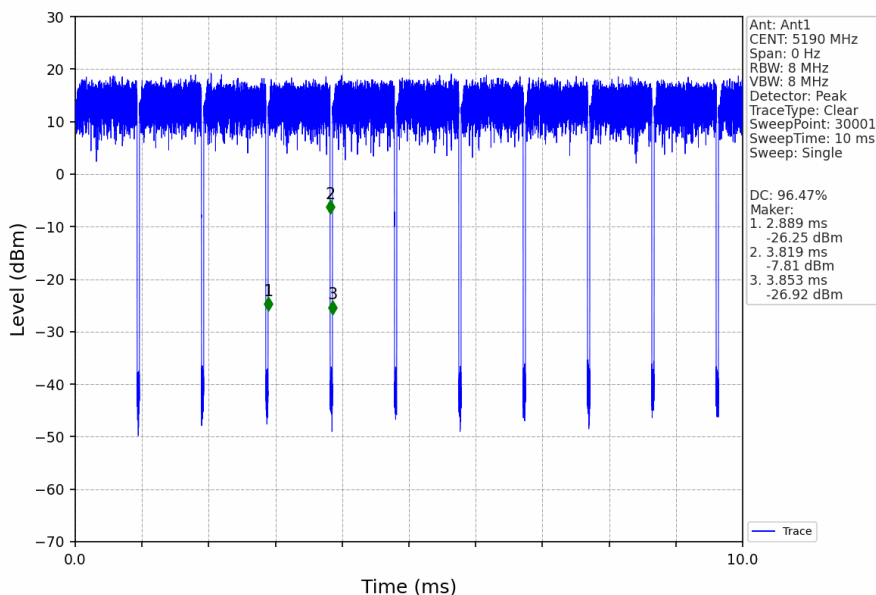
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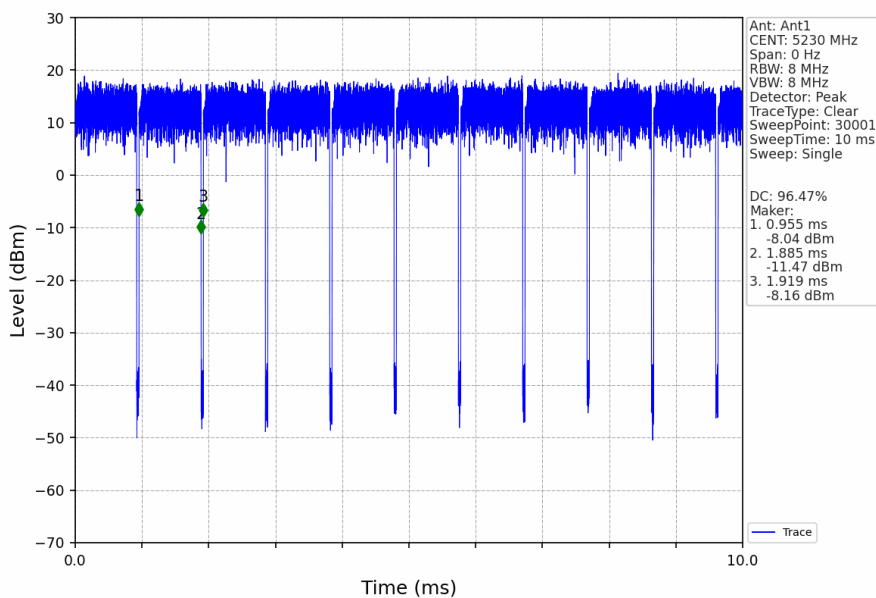
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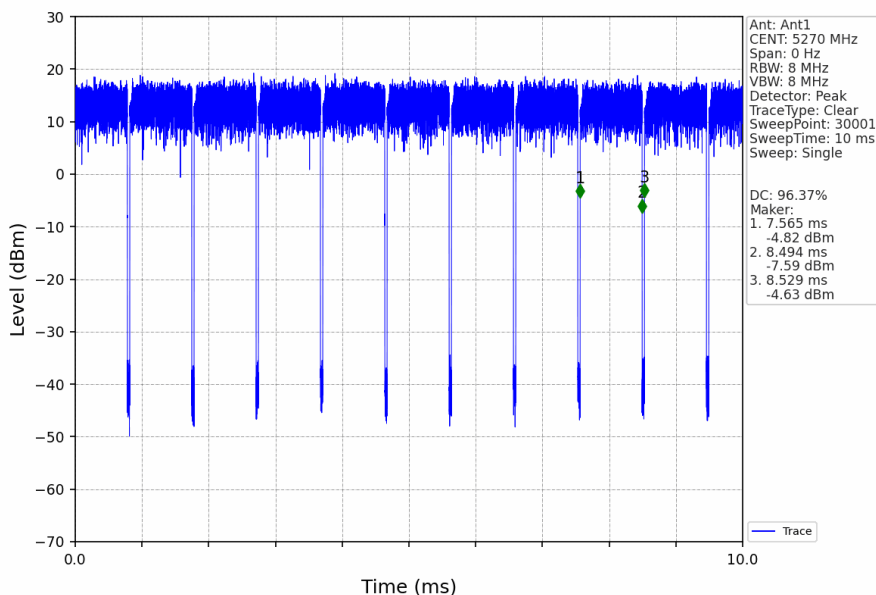
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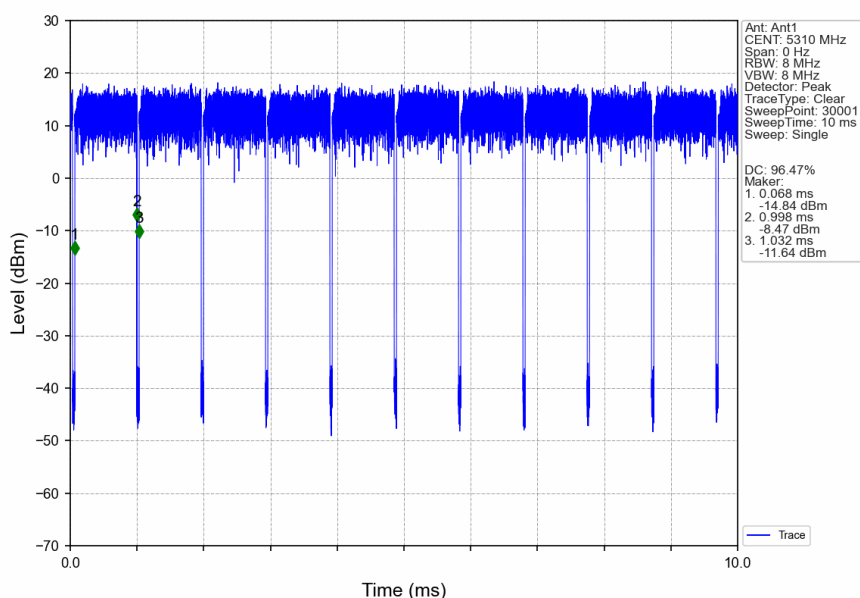
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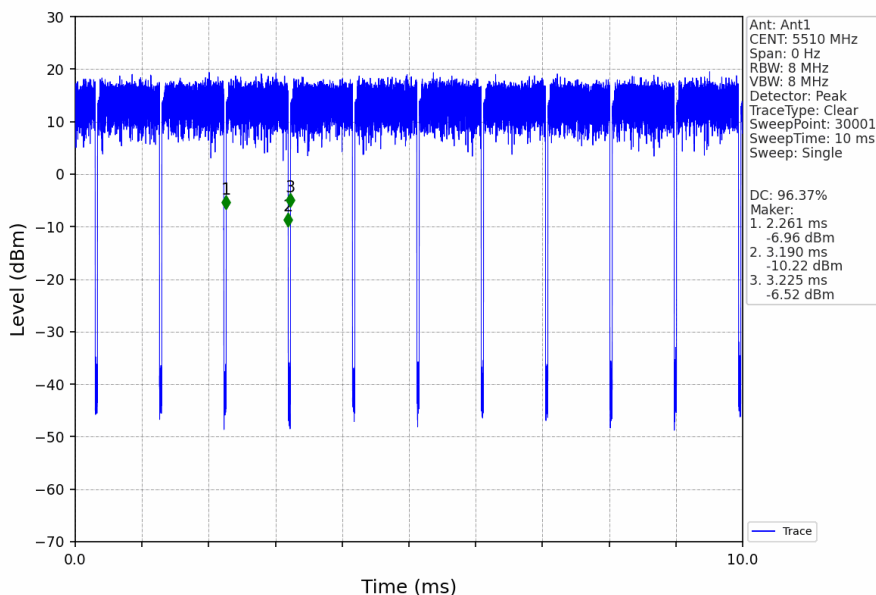
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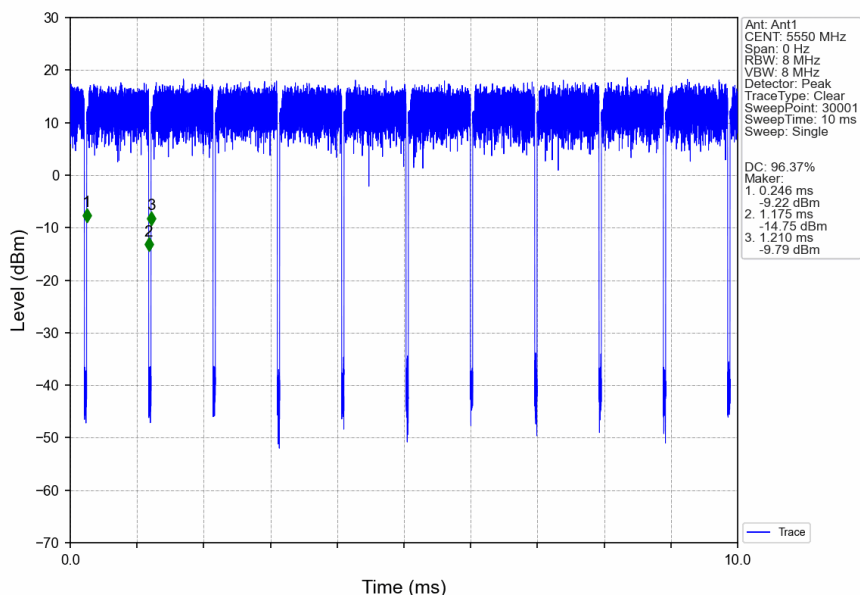
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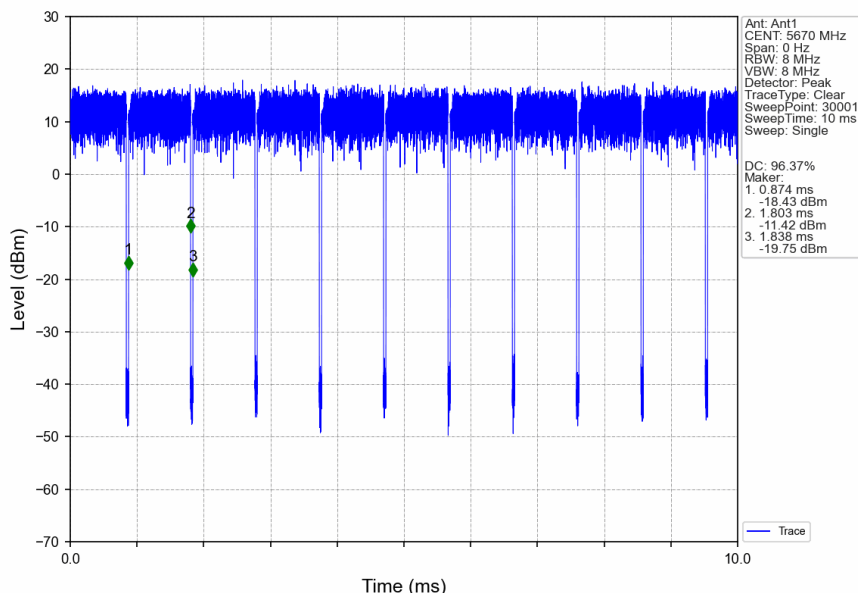
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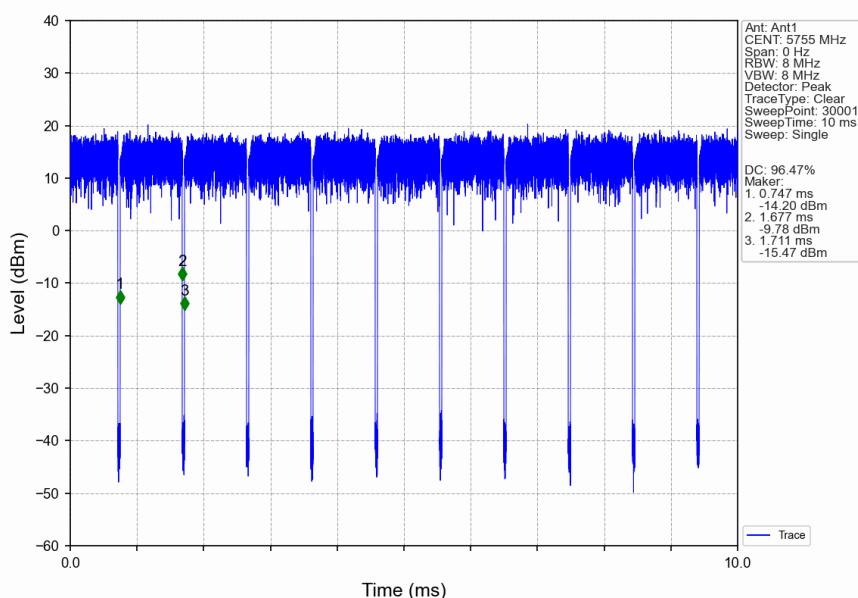
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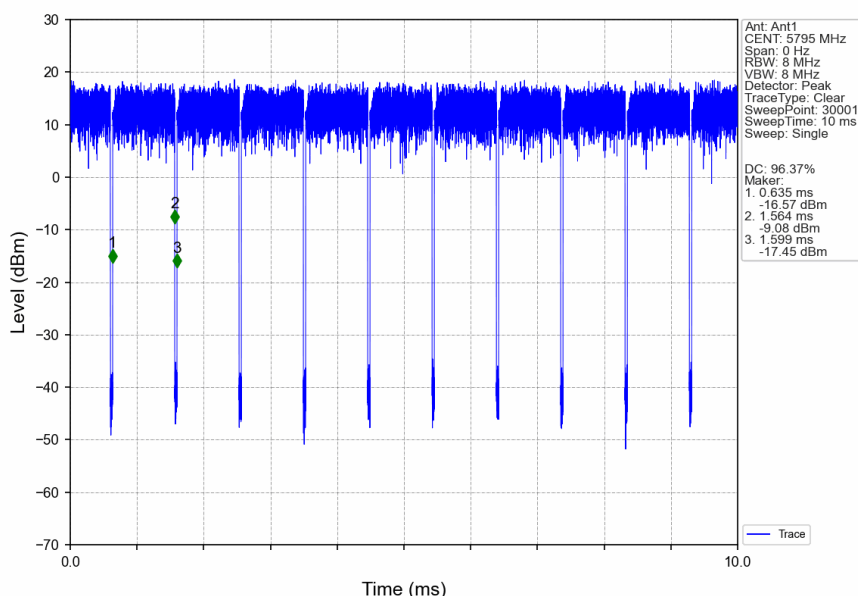
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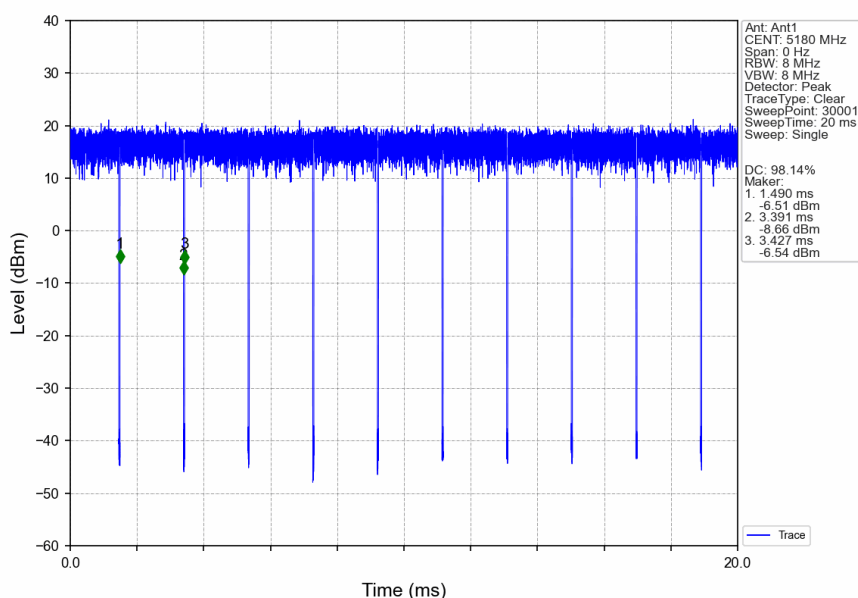
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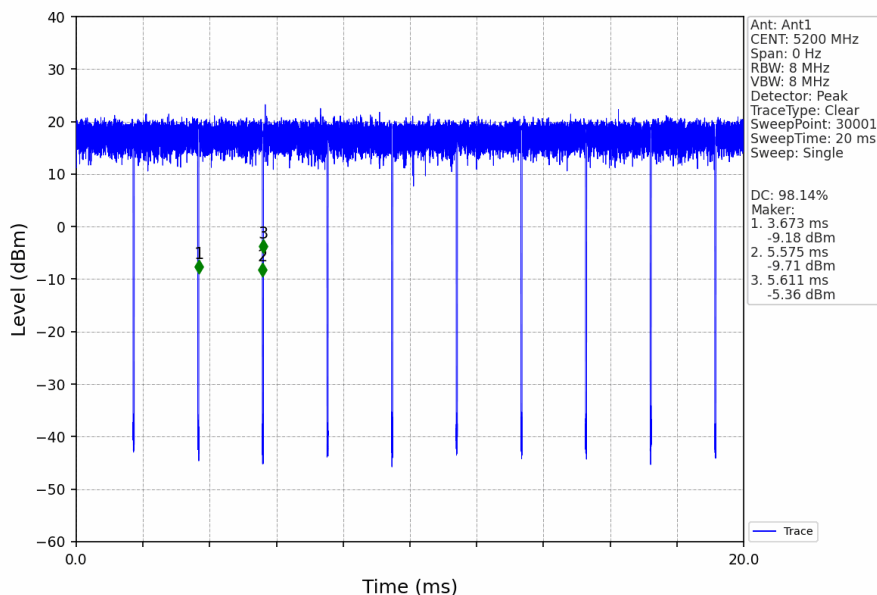
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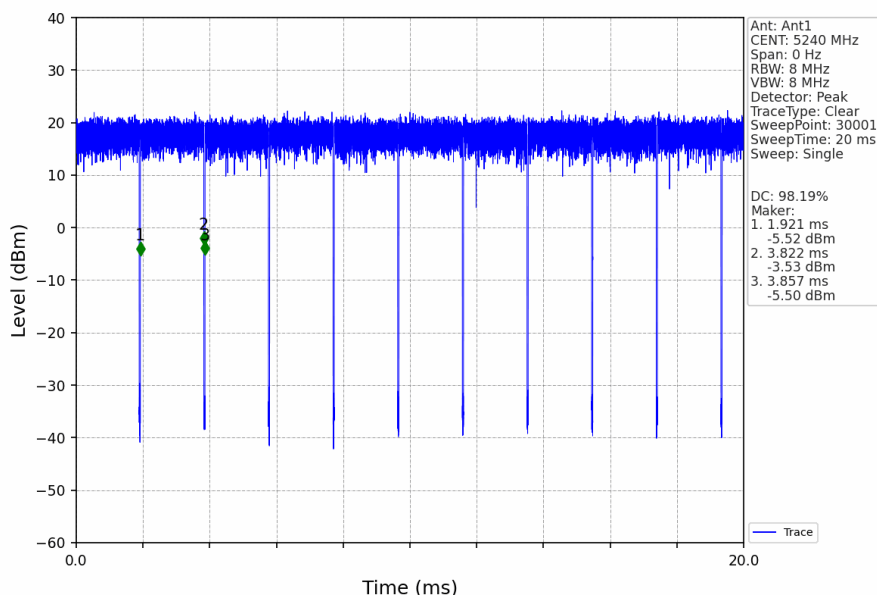
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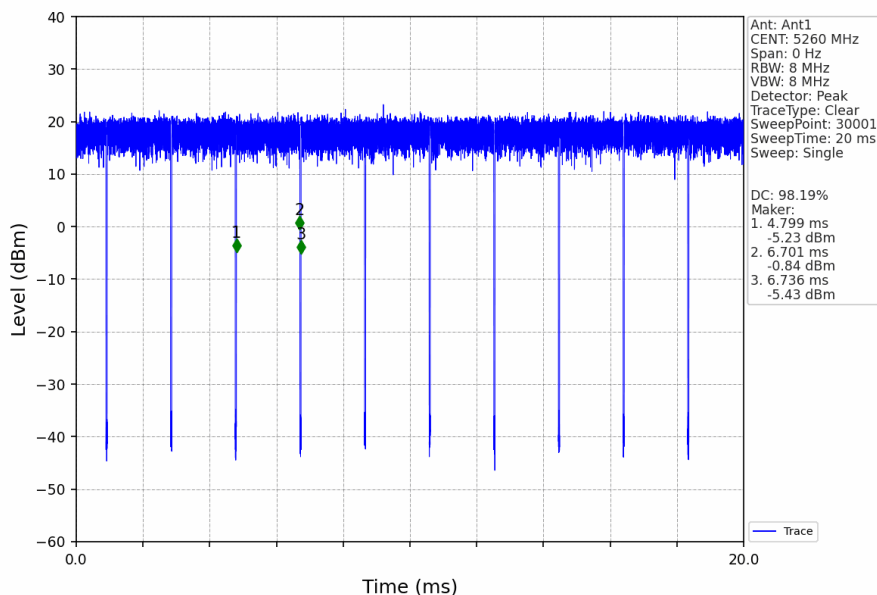
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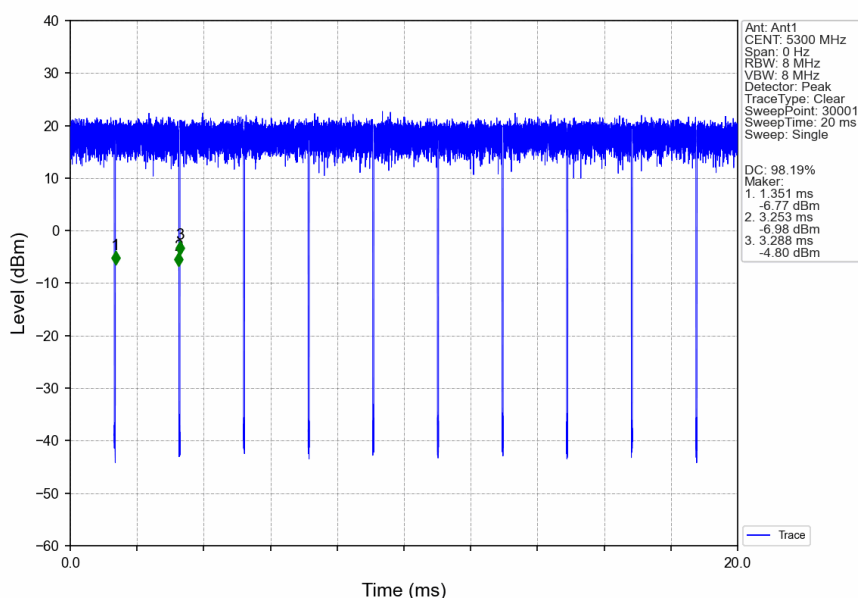
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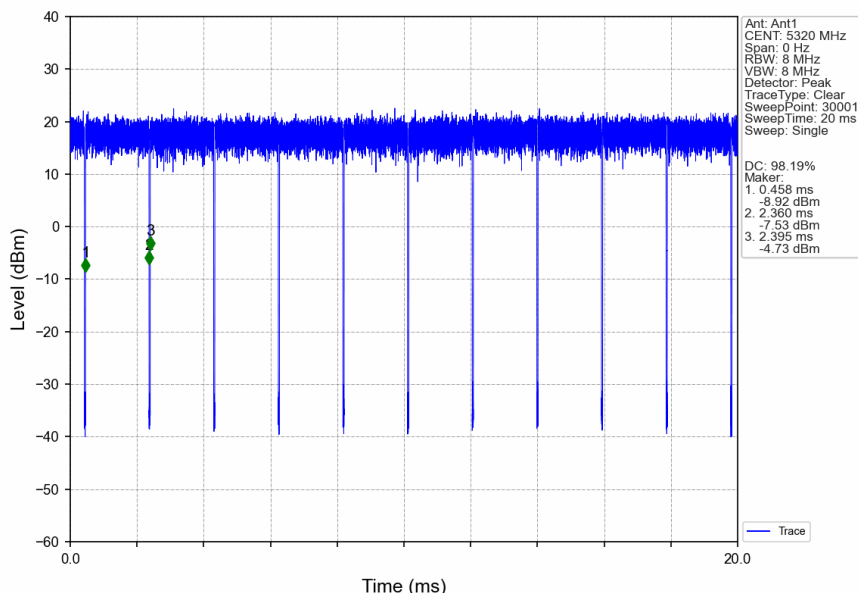
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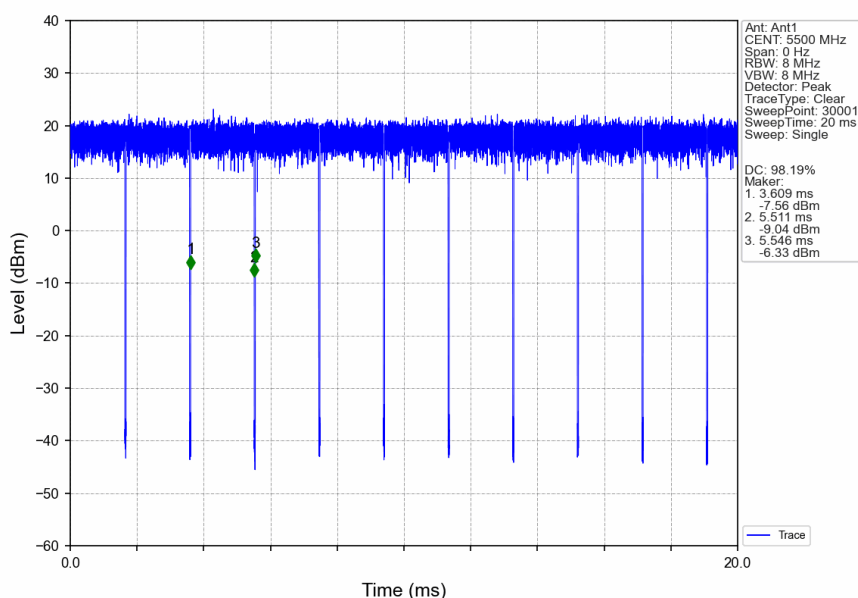
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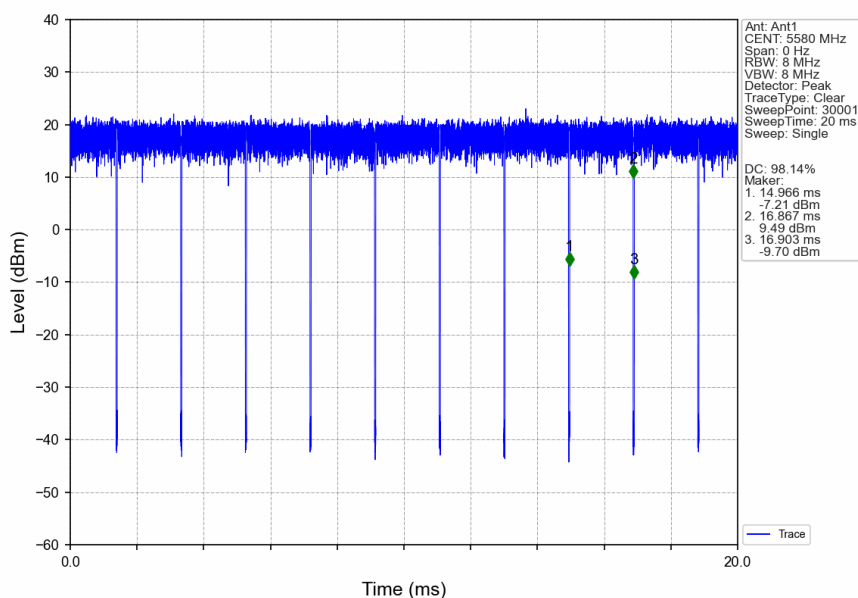
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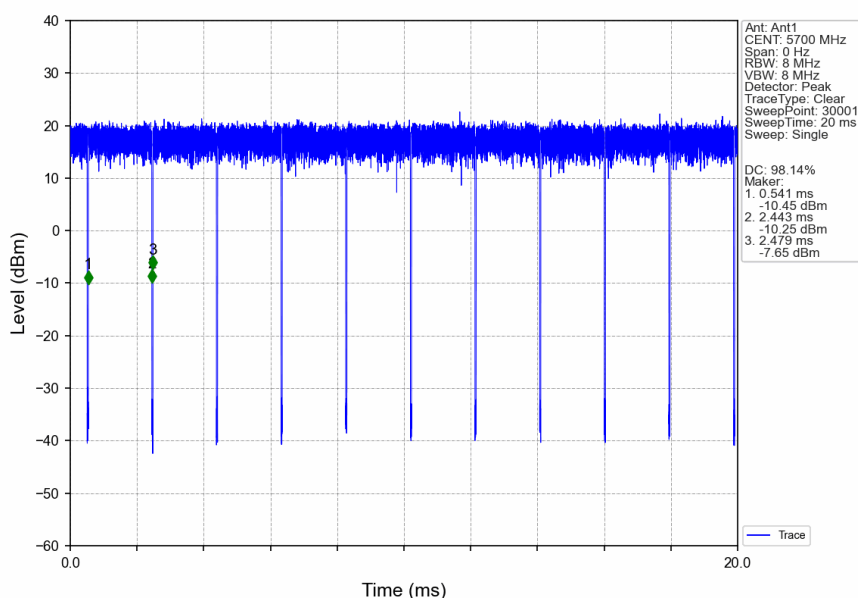
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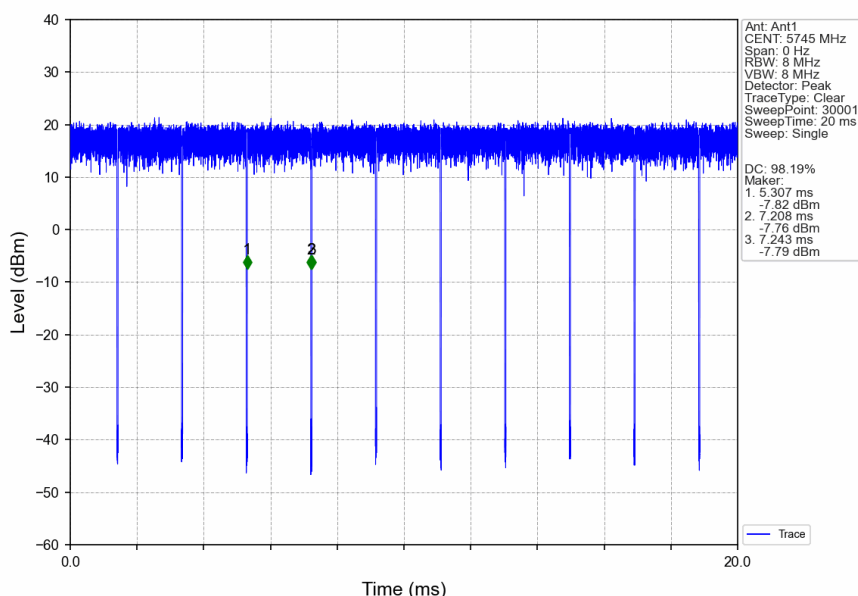
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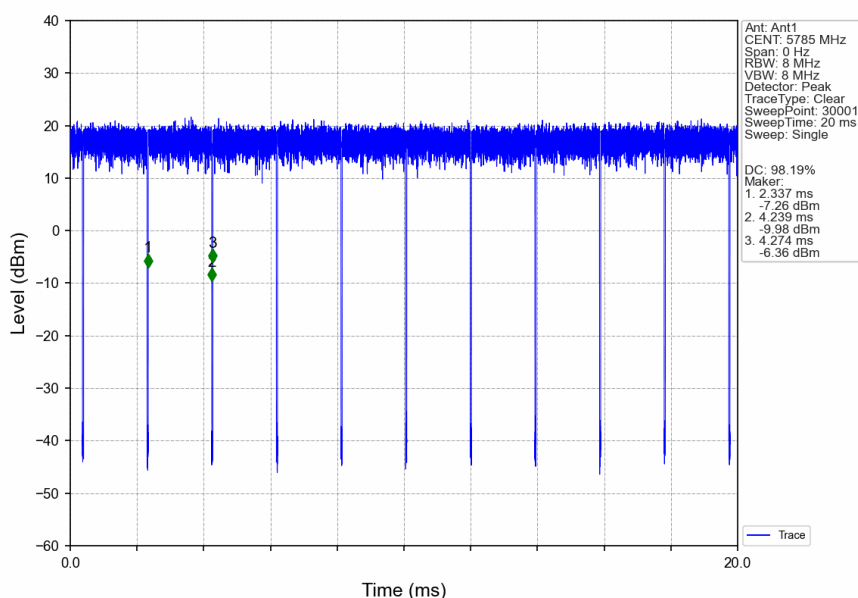
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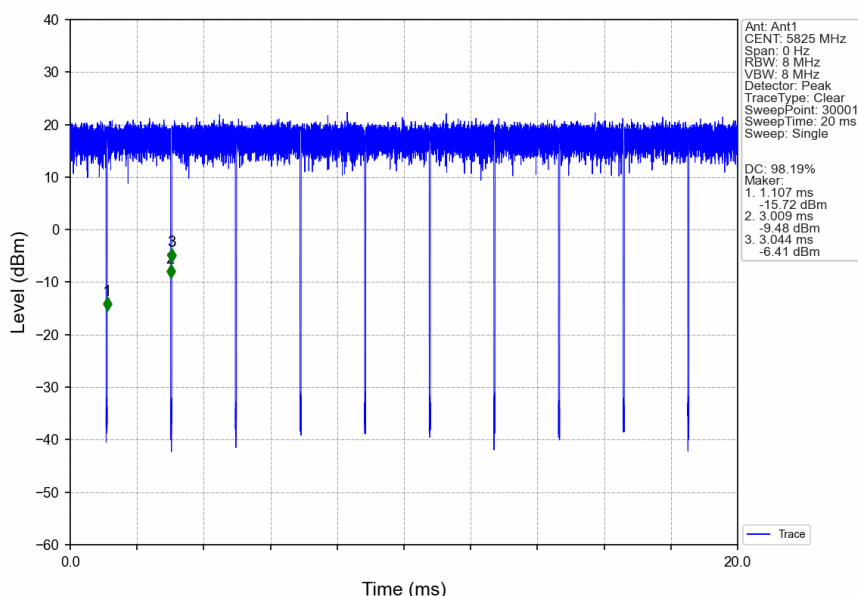
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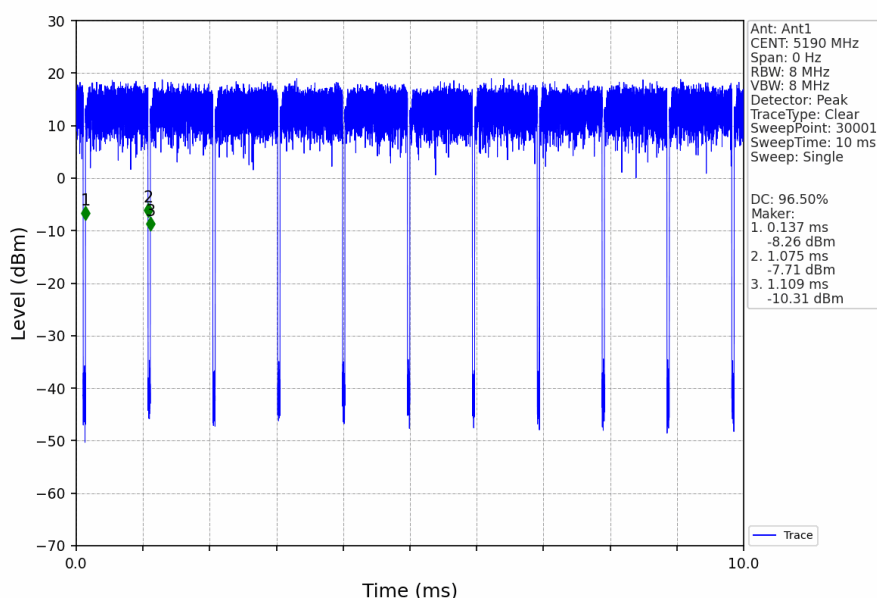
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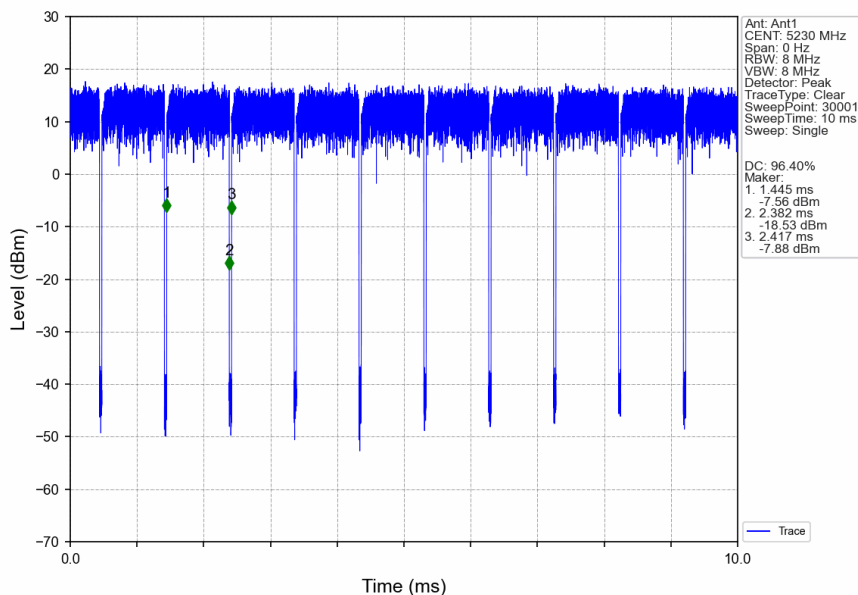
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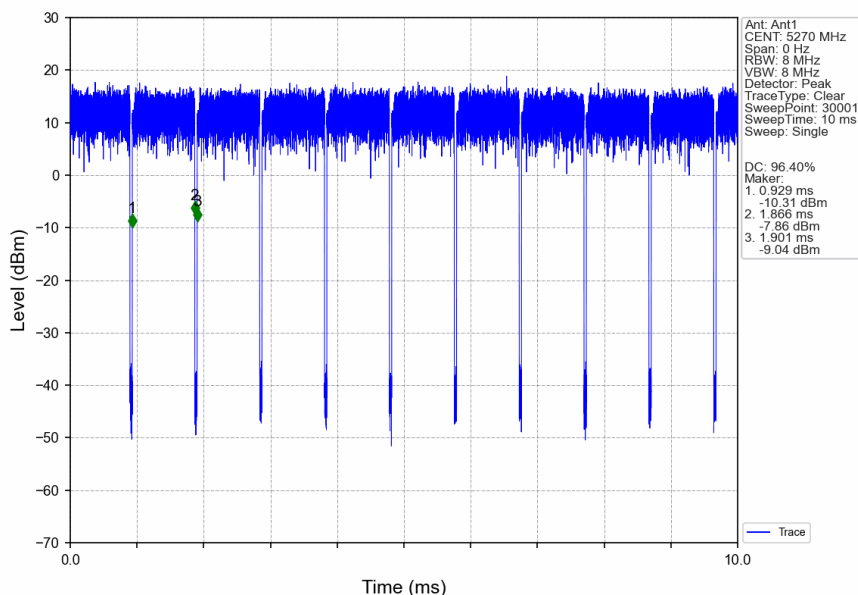
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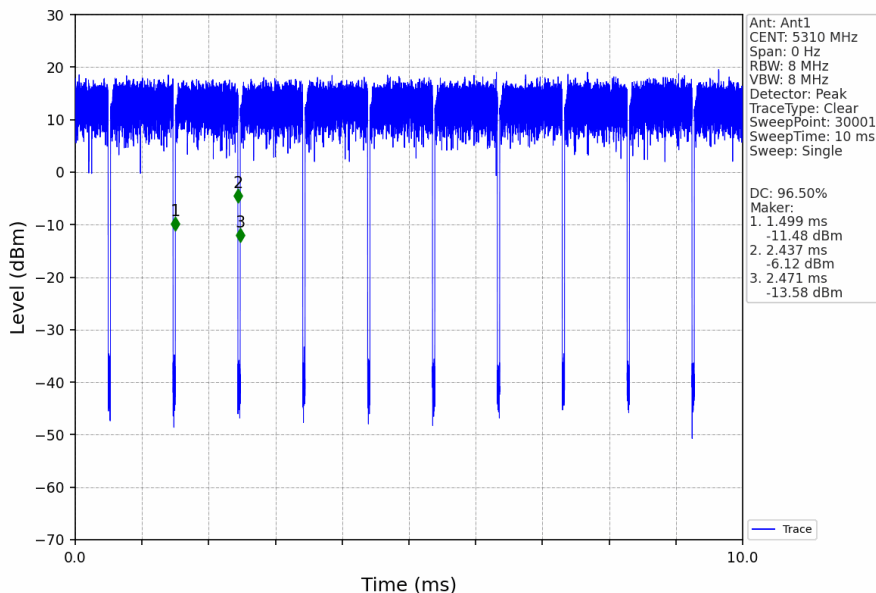
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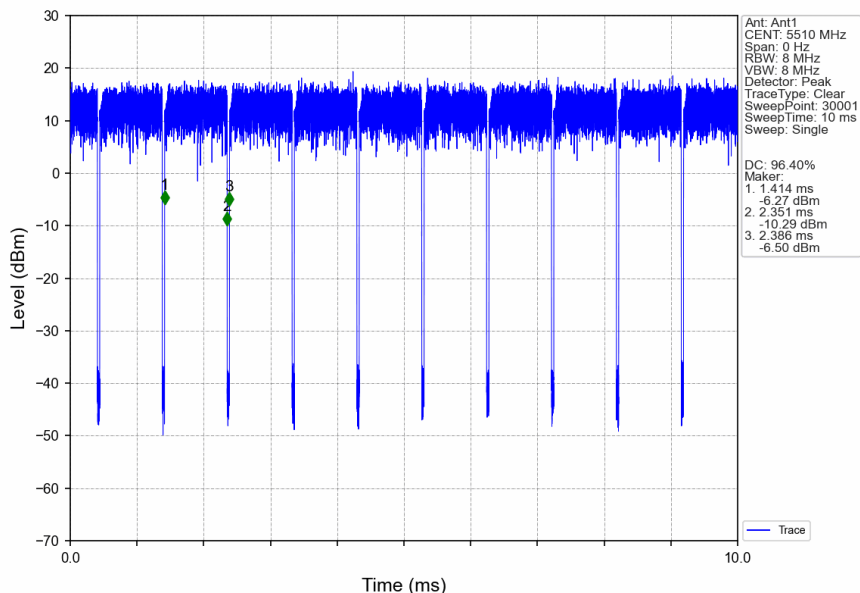
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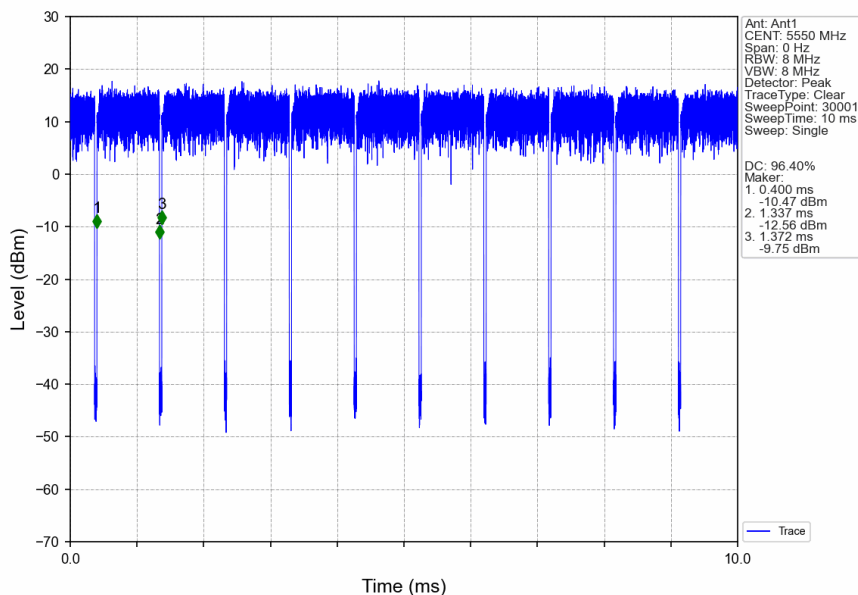
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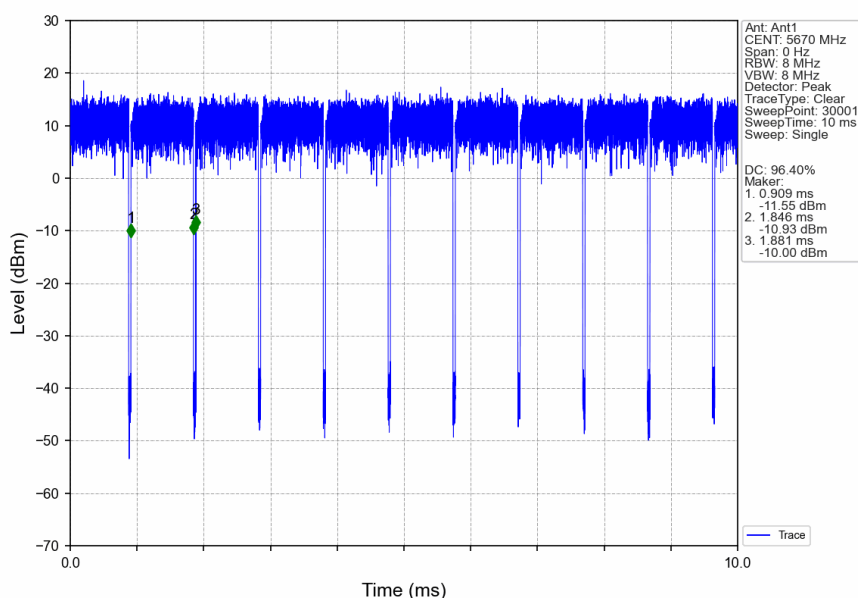
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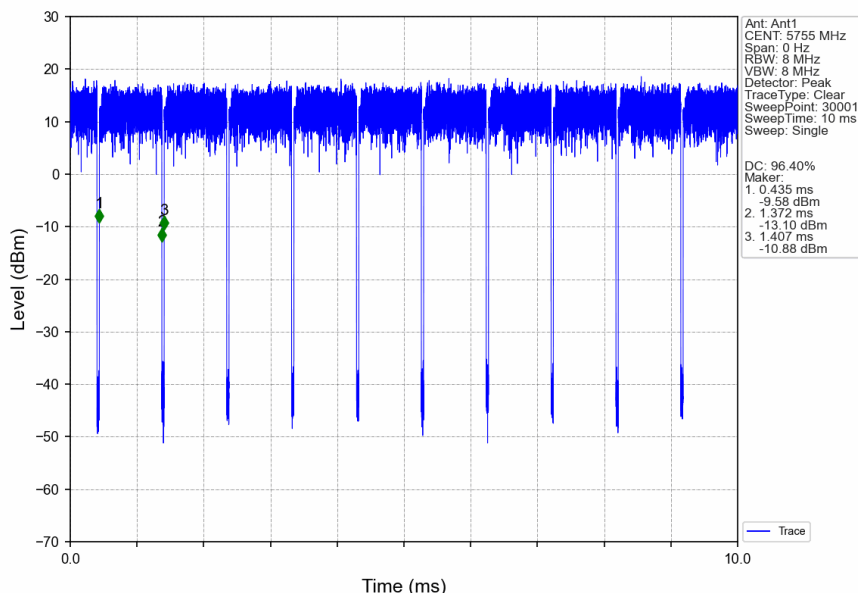
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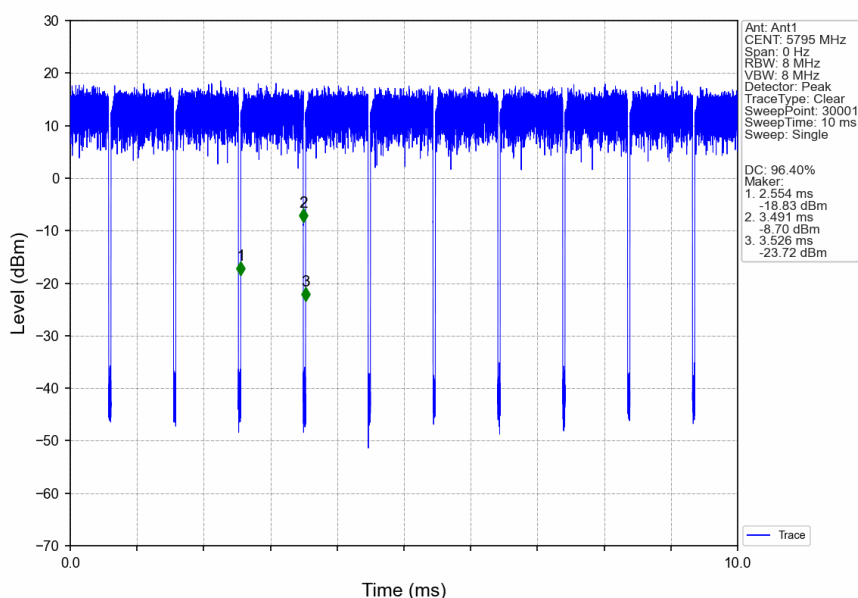
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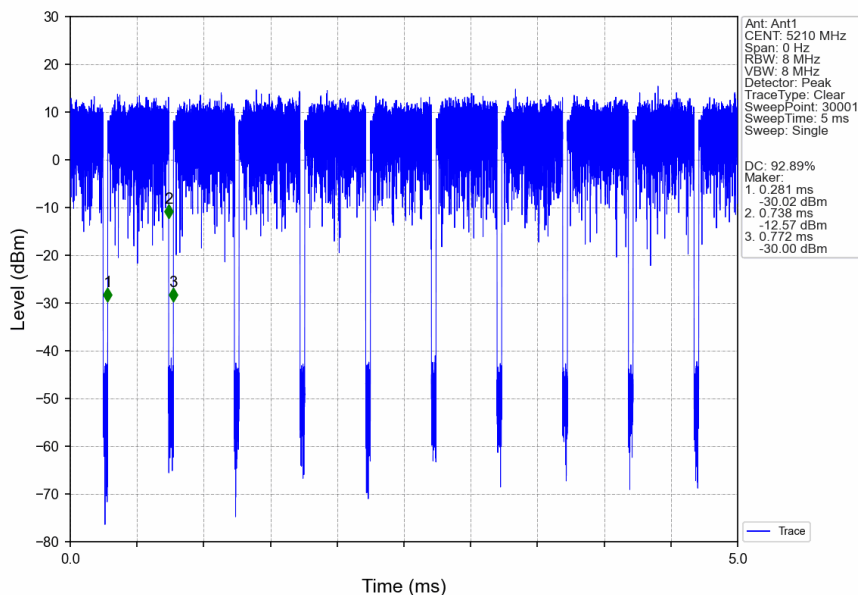
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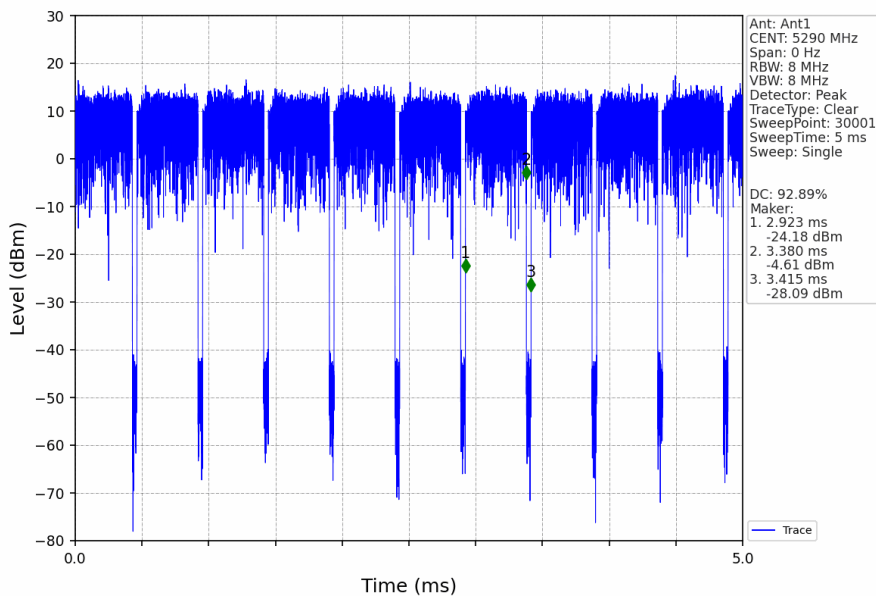
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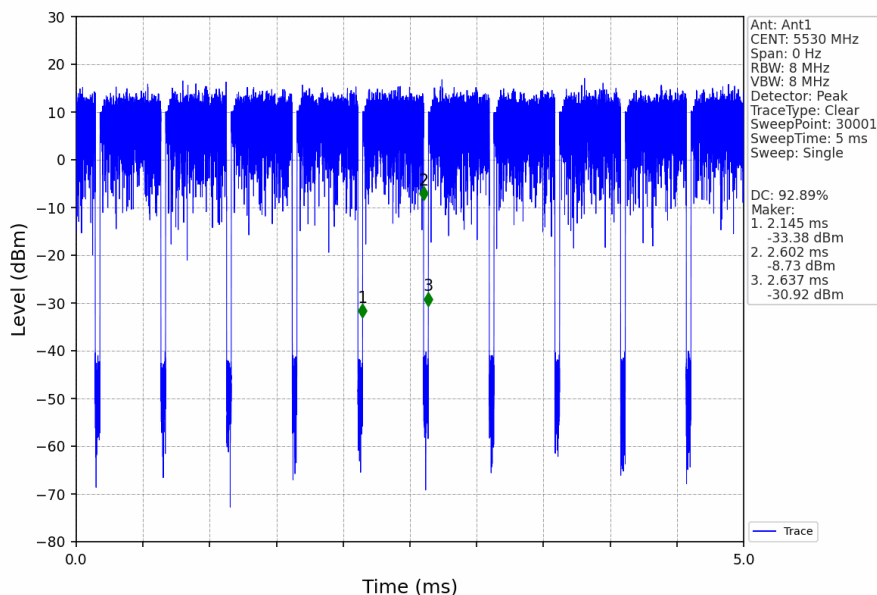
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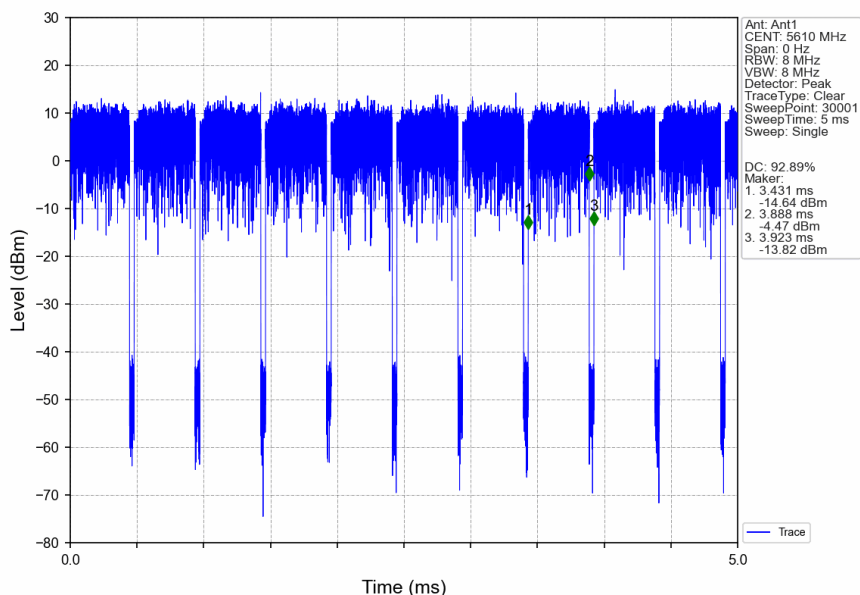
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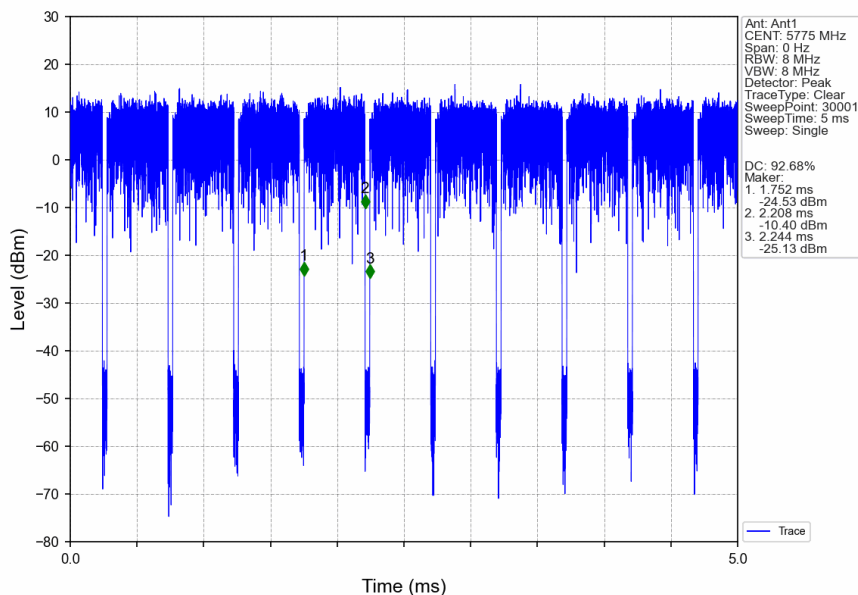
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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	13.86	<=23.98	Pass
		5200	13.45	<=23.98	Pass
		5240	13.16	<=23.98	Pass
		5260	13.05	<=23.98	Pass
		5300	13.07	<=23.98	Pass
		5320	13.03	<=23.98	Pass
		5500	11.62	<=23.98	Pass
		5580	11.64	<=23.98	Pass
		5700	15.38	<=23.98	Pass
		5745	15.19	<=30	Pass
		5785	15.43	<=30	Pass
		5825	14.94	<=30	Pass
802.11n (HT20)	SISO	5180	12.19	<=23.98	Pass
		5200	13.26	<=23.98	Pass
		5240	13.01	<=23.98	Pass
		5260	12.97	<=23.98	Pass
		5300	13.06	<=23.98	Pass
		5320	14.00	<=23.98	Pass
		5500	11.22	<=23.98	Pass
		5580	11.89	<=23.98	Pass
		5700	15.24	<=23.98	Pass
		5745	14.85	<=30	Pass
		5785	14.76	<=30	Pass
		5825	14.99	<=30	Pass
802.11n (HT40)	SISO	5190	9.83	<=23.98	Pass
		5230	11.04	<=23.98	Pass
		5270	10.69	<=23.98	Pass
		5310	9.68	<=23.98	Pass
		5510	8.57	<=23.98	Pass
		5550	9.75	<=23.98	Pass
		5670	11.20	<=23.98	Pass



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Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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		5755	11.91	<=30	Pass
		5795	12.21	<=30	Pass
802.11ac (VHT20)	SISO	5180	11.81	<=23.98	Pass
		5200	12.58	<=23.98	Pass
		5240	12.32	<=23.98	Pass
		5260	12.22	<=23.98	Pass
		5300	11.96	<=23.98	Pass
		5320	11.85	<=23.98	Pass
		5500	11.36	<=23.98	Pass
		5580	11.11	<=23.98	Pass
		5700	14.22	<=23.98	Pass
		5745	14.04	<=30	Pass
		5785	14.52	<=30	Pass
		5825	13.81	<=30	Pass
802.11ac (VHT40)	SISO	5190	9.15	<=23.98	Pass
		5230	10.47	<=23.98	Pass
		5270	10.19	<=23.98	Pass
		5310	11.00	<=23.98	Pass
		5510	7.12	<=23.98	Pass
		5550	9.15	<=23.98	Pass
		5670	9.35	<=23.98	Pass
		5755	10.29	<=30	Pass
		5795	11.49	<=30	Pass
802.11ac (VHT80)	SISO	5210	9.25	<=23.98	Pass
		5290	9.18	<=23.98	Pass
		5530	7.60	<=23.98	Pass
		5610	11.22	<=23.98	Pass
		5775	12.08	<=30	Pass

Note1: Antenna Gain:

- Band: 1 Ant1: 0.00dBi;
- Band: 3 Ant1: 0.30dBi;
- Band: 2A Ant1: 0.00dBi;
- Band: 2C Ant1: 0.49dBi;



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

3. Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	3.18	<=11	Pass
		5200	3.00	<=11	Pass
		5240	2.60	<=11	Pass
		5260	2.47	<=11	Pass
		5300	2.43	<=11	Pass
		5320	2.45	<=11	Pass
		5500	2.16	<=11	Pass
		5580	4.09	<=11	Pass
		5700	4.73	<=11	Pass
802.11n (HT20)	SISO	5180	1.42	<=11	Pass
		5200	2.47	<=11	Pass
		5240	2.15	<=11	Pass
		5260	2.25	<=11	Pass
		5300	2.13	<=11	Pass
		5320	3.18	<=11	Pass
		5500	1.35	<=11	Pass
		5580	3.14	<=11	Pass
		5700	4.43	<=11	Pass
802.11n (HT40)	SISO	5190	-4.03	<=11	Pass
		5230	-2.67	<=11	Pass
		5270	-3.06	<=11	Pass
		5310	-4.06	<=11	Pass
		5510	-5.31	<=11	Pass
		5550	-4.15	<=11	Pass
		5670	-2.63	<=11	Pass
802.11ac (VHT20)	SISO	5180	1.16	<=11	Pass
		5200	1.90	<=11	Pass
		5240	1.54	<=11	Pass
		5260	1.45	<=11	Pass
		5300	1.12	<=11	Pass
		5320	1.21	<=11	Pass



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		5500	0.66	<=11	Pass
		5580	1.25	<=11	Pass
		5700	3.37	<=11	Pass
802.11ac (VHT40)	SISO	5190	-4.71	<=11	Pass
		5230	-3.39	<=11	Pass
		5270	-3.56	<=11	Pass
		5310	-2.87	<=11	Pass
		5510	-6.76	<=11	Pass
		5550	-4.73	<=11	Pass
		5670	-4.64	<=11	Pass
802.11ac (VHT80)	SISO	5210	-6.11	<=11	Pass
		5290	-7.67	<=11	Pass
		5530	-9.10	<=11	Pass
		5610	-5.56	<=11	Pass

Note1: Antenna Gain:

- Band: 2A Ant1: 0.00dBi;
- Band: 2C Ant1: 0.49dBi;
- Band: 1 Ant1: 0.00dBi;
- Band: 3 Ant1: 0.30dBi;



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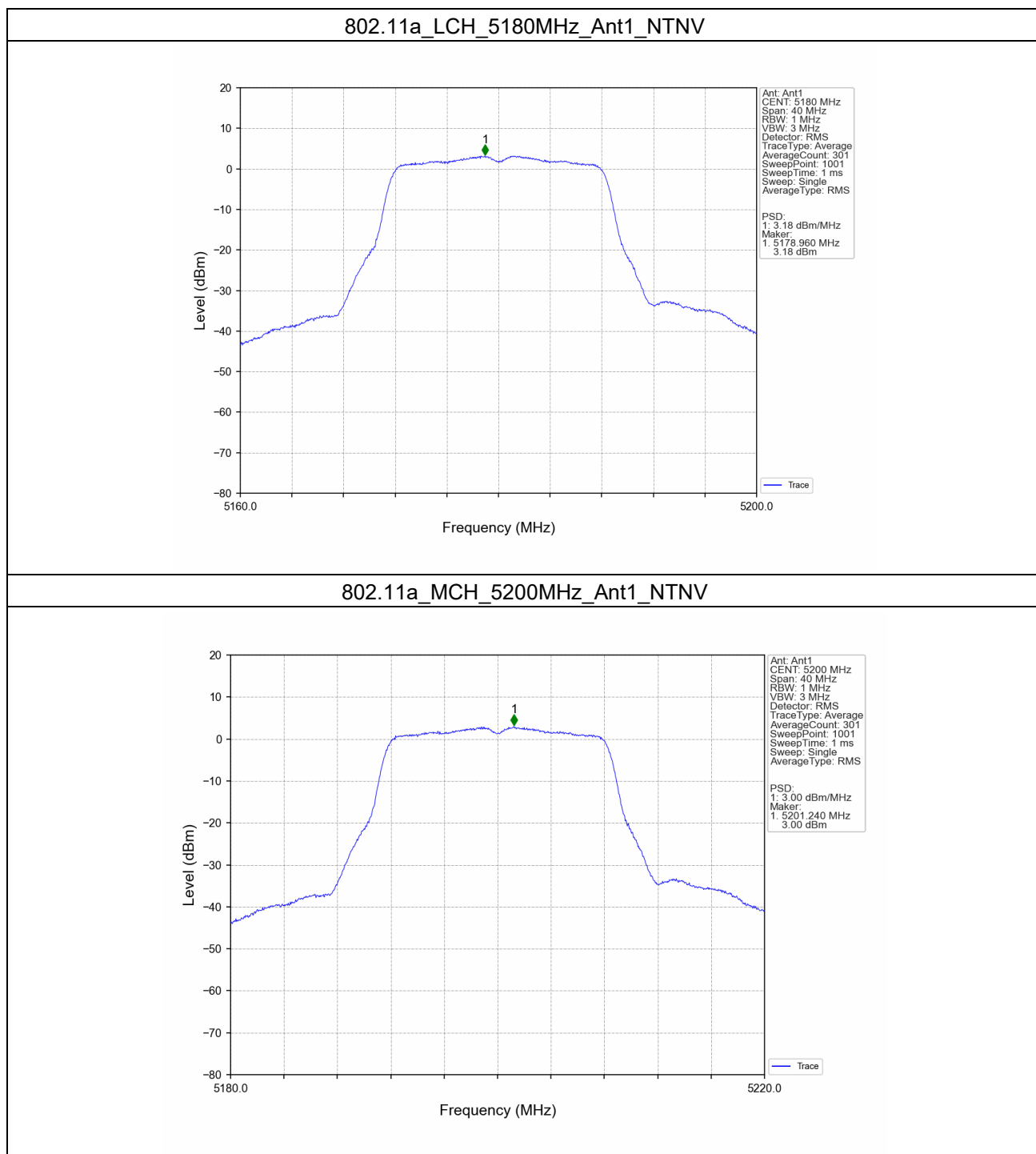
3.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	1.97	<=30	Pass
		5785	2.34	<=30	Pass
		5825	1.81	<=30	Pass
802.11n (HT20)	SISO	5745	1.41	<=30	Pass
		5785	1.37	<=30	Pass
		5825	1.58	<=30	Pass
802.11n (HT40)	SISO	5755	-4.78	<=30	Pass
		5795	-4.44	<=30	Pass
802.11ac (VHT20)	SISO	5745	0.58	<=30	Pass
		5785	1.23	<=30	Pass
		5825	0.29	<=30	Pass
802.11ac (VHT40)	SISO	5755	-6.12	<=30	Pass
		5795	-5.03	<=30	Pass
802.11ac (VHT80)	SISO	5775	-7.39	<=30	Pass

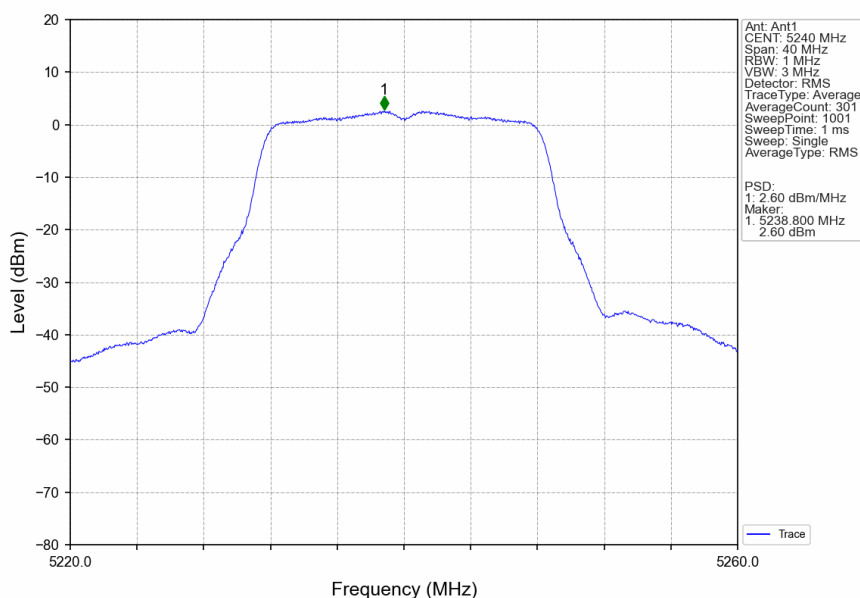
Note1: Antenna Gain:
- Band: 2C Ant1: 0.49dBi;
- Band: 1 Ant1: 0.00dBi;
- Band: 3 Ant1: 0.30dBi;
- Band: 2A Ant1: 0.00dBi;

3.2 Test Graph

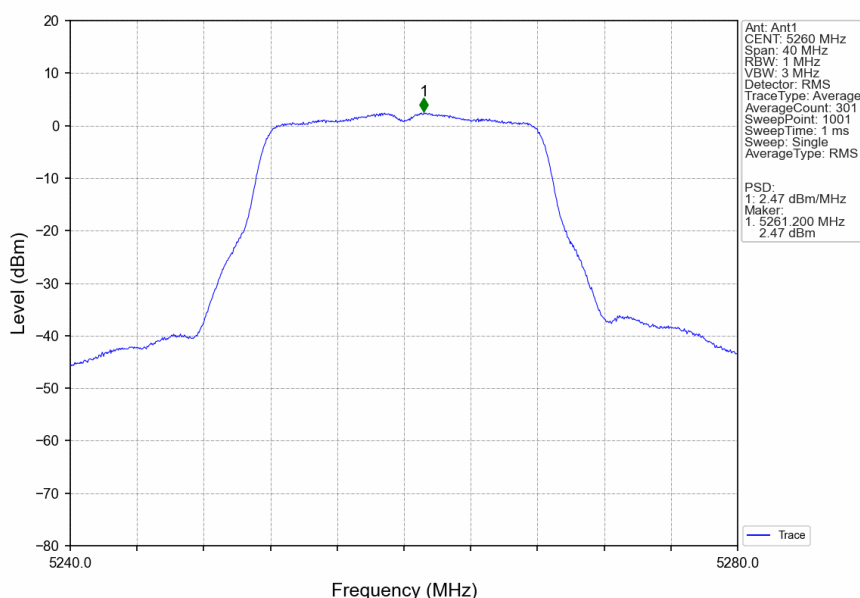
3.2.1 PSD



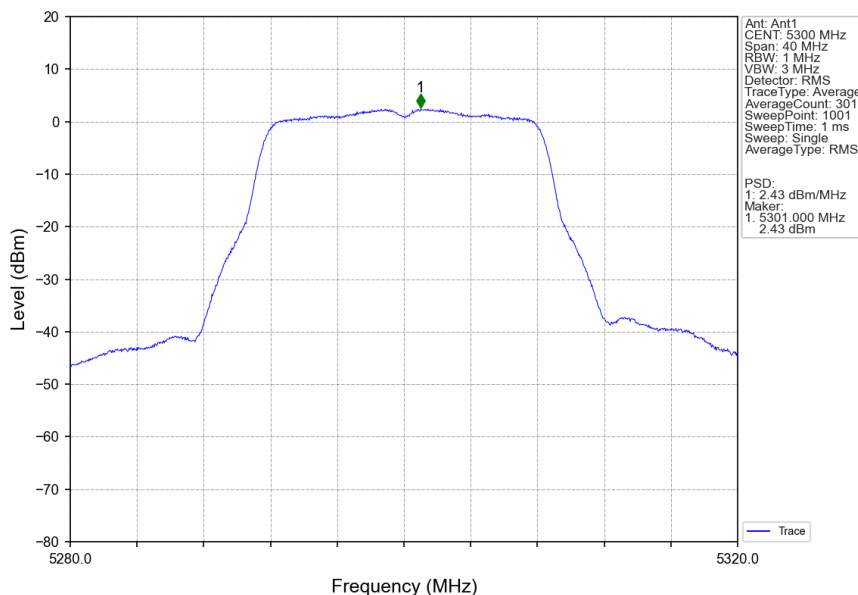
802.11a_HCH_5240MHz_Ant1_NTNV



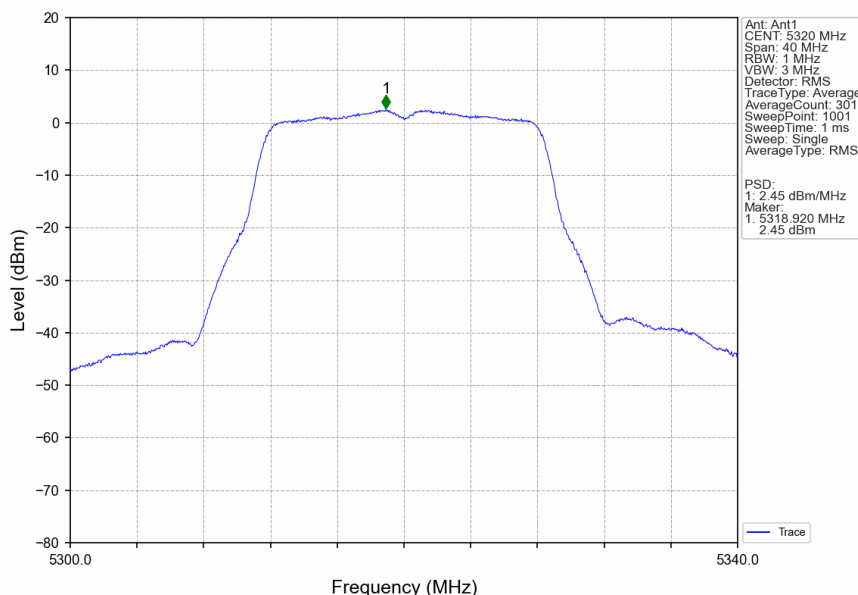
802.11a_LCH_5260MHz_Ant1_NTNV



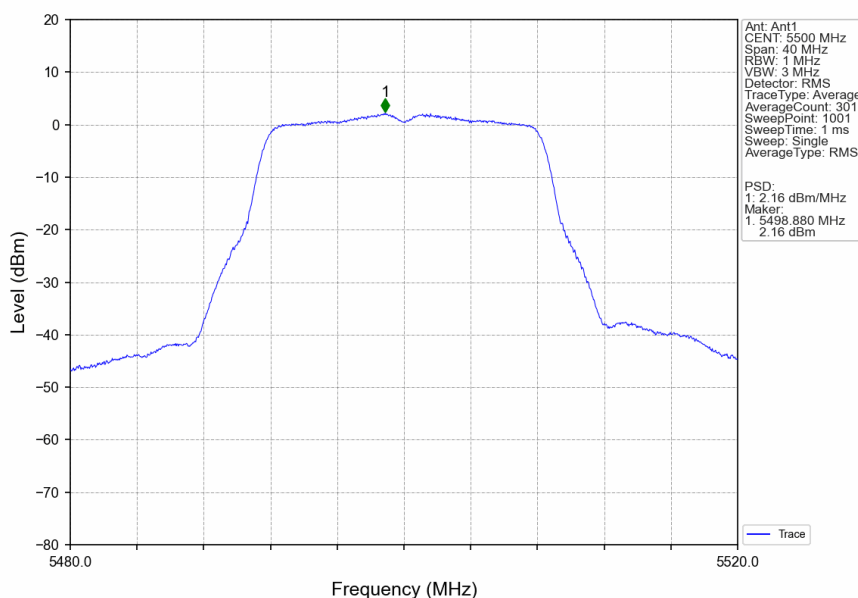
802.11a_MCH_5300MHz_Ant1_NTNV



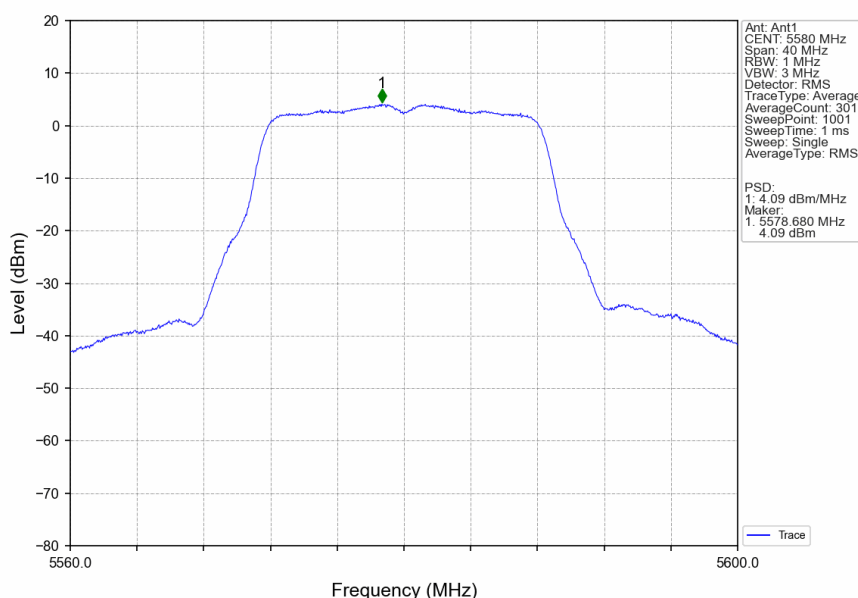
802.11a_HCH_5320MHz_Ant1_NTNV



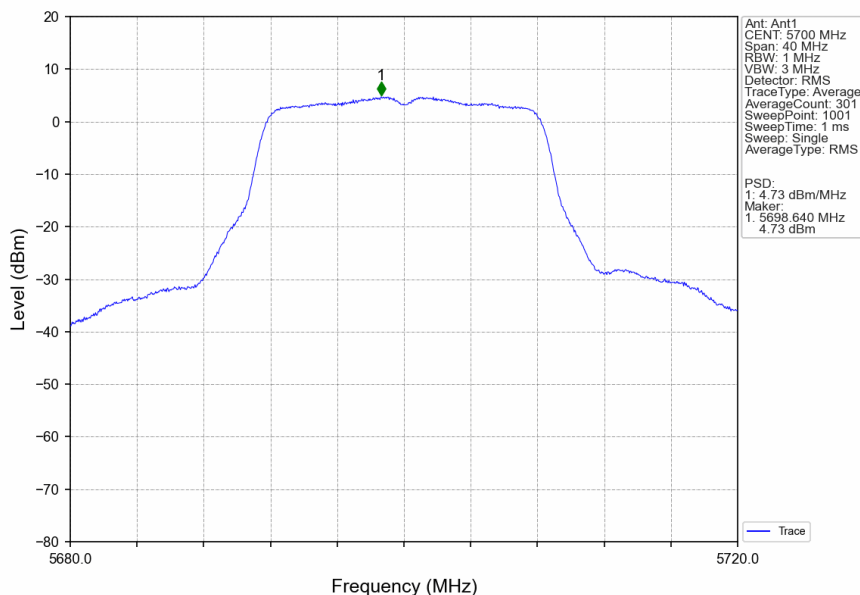
802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

