

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300101402

Page: 1 of 119

TEST REPORT

Application No.: SZCR2603001014MO
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-AM
Trade Mark: ingenico
FCC ID: XKB-INGA01AM
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2026-03-16
Date of Test: 2026-03-17 to 2026-03-25
Date of Issue: 2026-03-26

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		2026-03-26		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-AM

This test report (Ref. No.: SZCR260300101402) is only valid with the original test report (Ref. No.: SZCR250500180905).

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

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 SZCR250500180905.



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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.
Adapter	LITEON	PA-1041-81	/
Debug board	ingenico	ING-A01 Demo	/



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.	



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



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

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



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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: 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: 21.5 °C

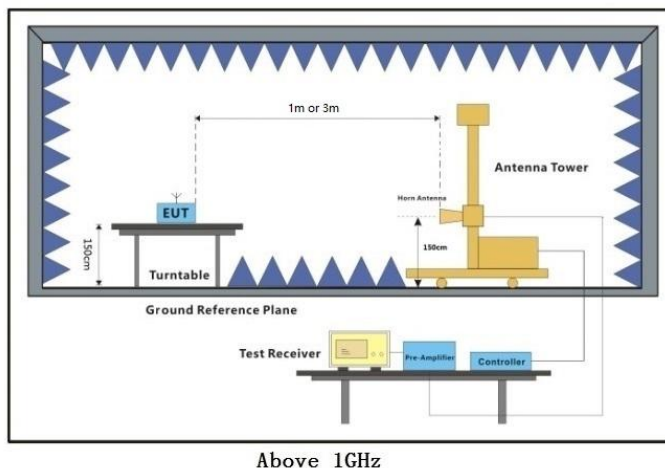
Humidity: 56.2 % RH

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

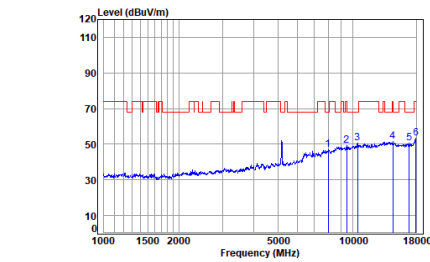
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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

Remark:

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



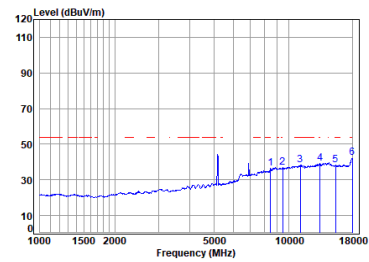
11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M/01015M0
Mode : 5180 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7989.893	11.56	37.22	55.91	53.98	46.85	68.20	-21.35 Peak 0.00
2	9448.149	12.43	38.90	54.19	52.28	49.42	74.00	-24.58 Peak 0.00
3	pp10453.970	13.63	39.25	53.55	51.28	50.61	68.20	-17.59 Peak 0.00
4	14491.960	17.07	48.22	54.18	48.56	51.75	74.00	-22.25 Peak 0.00
5	16891.040	18.12	38.60	53.88	47.76	50.60	68.20	-17.60 Peak 0.00
6	17948.050	18.30	42.29	54.28	46.92	53.23	74.00	-20.77 Peak 0.00

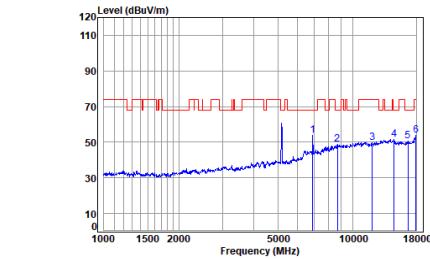
11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01014M/01015M0
Mode : 5180 TX RSE
: 5G Wi-Fi 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	8465.379	12.08	37.73	55.32	41.91	36.40	54.00	-17.60 Average 0.00
2	9448.149	12.43	38.90	54.19	39.89	37.03	54.00	-16.97 Average 0.00
3	11140.310	14.70	39.38	53.46	37.71	38.33	54.00	-15.67 Average 0.00
4	13365.320	16.13	40.40	53.91	36.72	39.34	54.00	-14.66 Average 0.00
5	15443.410	16.82	38.96	53.92	36.51	38.37	54.00	-15.63 Average 0.00
6	pp18000.000	18.35	42.60	54.30	35.74	42.39	54.00	-11.61 Average 0.00

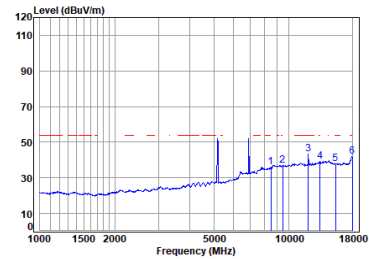
11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01014M/01015M0
Mode : 5180 TX RSE
: 5G Wi-Fi 11A

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 pp 6914.763	11.37	36.27	56.51	62.74	53.87	68.20	-14.33 Peak	0.00
2 8688.480	12.08	38.28	55.06	53.59	48.89	68.20	-19.31 Peak	0.00
3 12009.760	14.57	39.29	53.21	49.28	49.93	74.00	-24.07 Peak	0.00
4 14660.480	16.37	40.20	54.10	49.03	51.50	68.20	-16.70 Peak	0.00
5 16648.690	17.62	38.45	53.83	48.18	50.42	68.20	-17.78 Peak	0.00
6 17948.050	18.30	42.29	54.28	47.59	53.90	74.00	-20.10 Peak	0.00

11a_TX_CH_36_Vertical-Avg

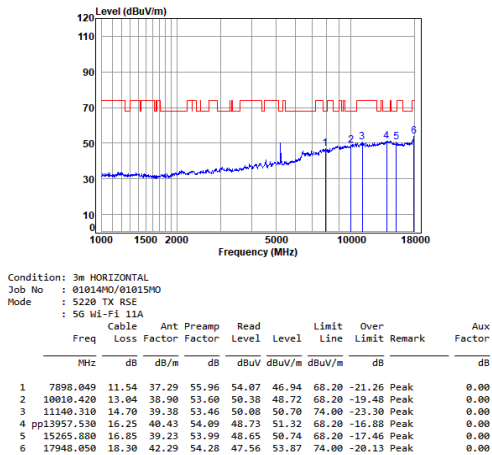


Condition: 3m VERTICAL
Job No : 01014M/01015M0
Mode : 5180 TX RSE
: 5G Wi-Fi 11A

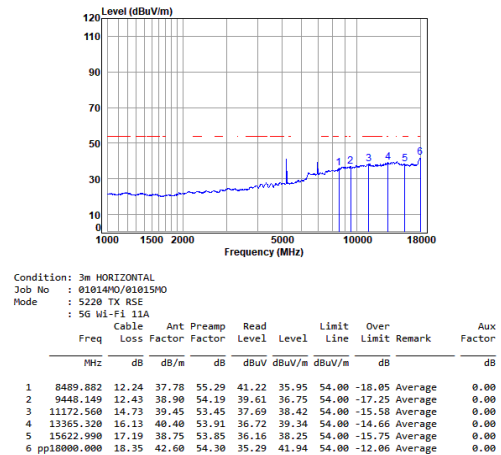
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1	8489.882	12.24	37.78	55.29	41.18	35.91	54.00	-18.09 Average 0.00
2	9448.149	12.43	38.90	54.19	39.93	37.07	54.00	-16.93 Average 0.00
3	pp12009.760	14.57	39.29	53.21	42.57	43.22	54.00	-10.78 Average 0.00
4	13365.320	16.13	40.40	53.91	36.64	39.26	54.00	-14.74 Average 0.00
5	15443.410	16.82	38.96	53.92	36.18	38.04	54.00	-15.96 Average 0.00
6	18000.000	18.35	42.60	54.30	35.42	42.07	54.00	-11.93 Average 0.00



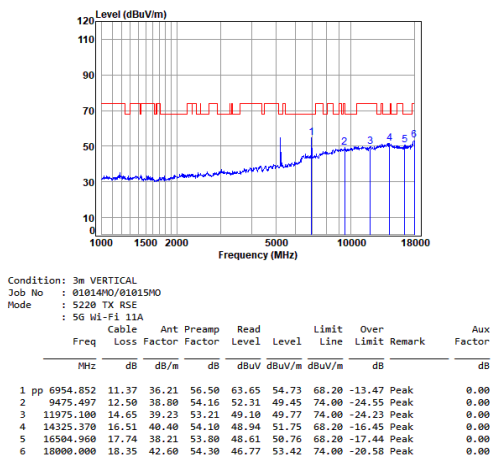
11a_TX_CH_44_Horizontal-Peak



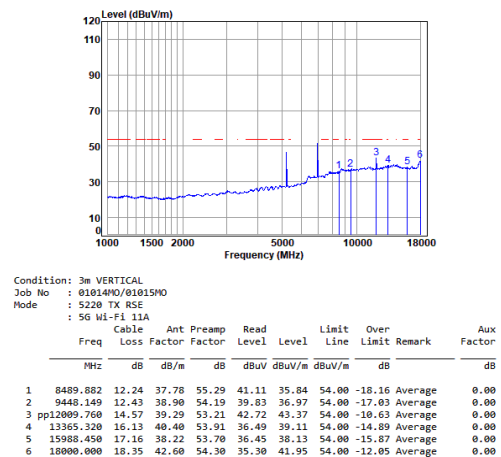
11a_TX_CH_44_Horizontal-Avg



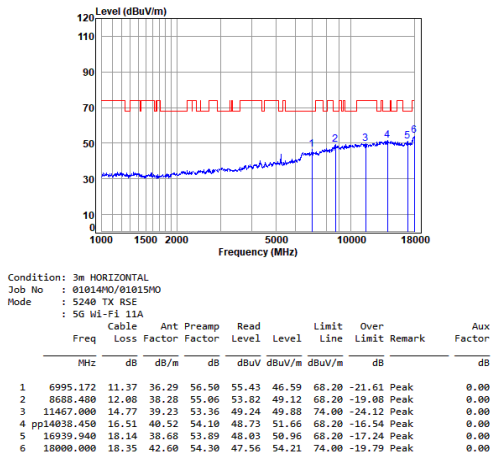
11a_TX_CH_44_Vertical-Peak



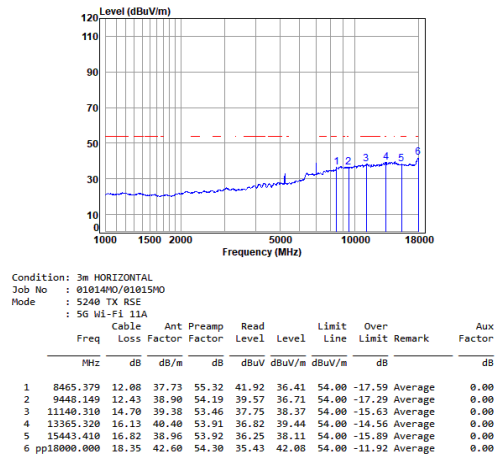
11a_TX_CH_44_Vertical-Avg



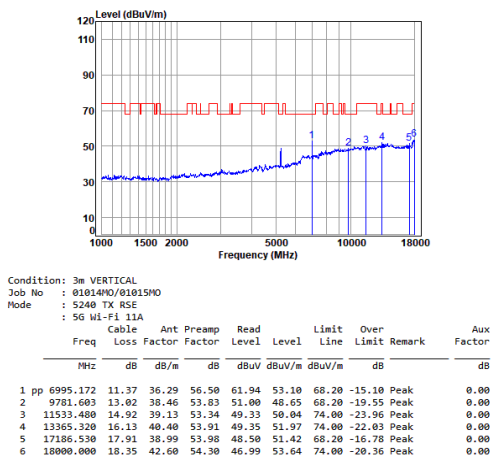
11a_TX_CH_48_Horizontal-Peak



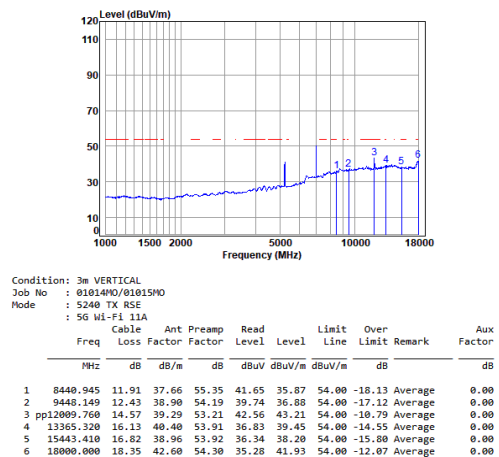
11a_TX_CH_48_Horizontal-Avg



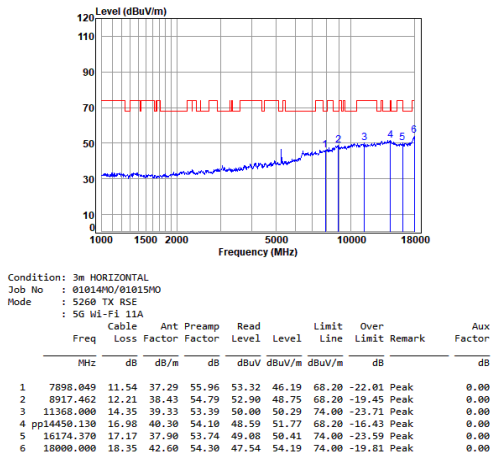
11a_TX_CH_48_Vertical-Peak



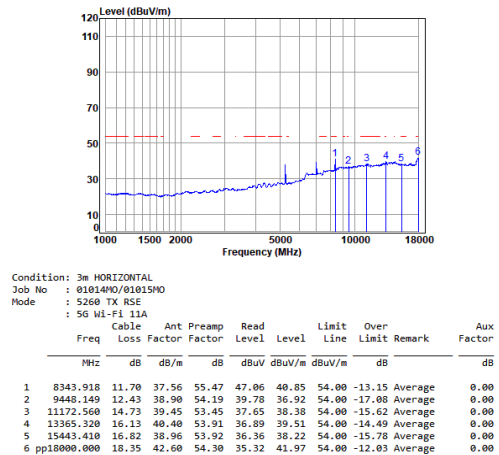
11a_TX_CH_48_Vertical-Avg



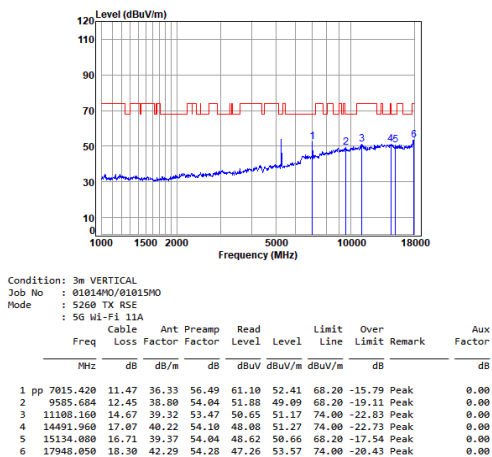
11a_TX_CH_52_Horizontal-Peak



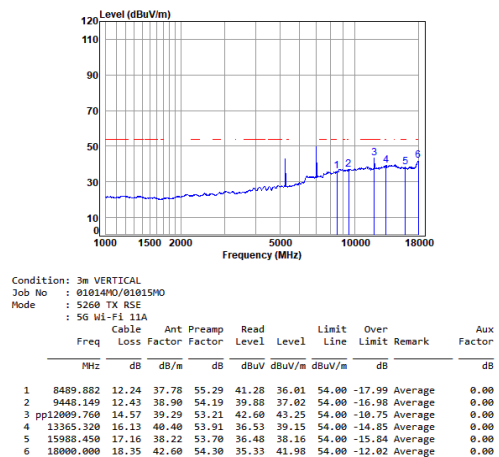
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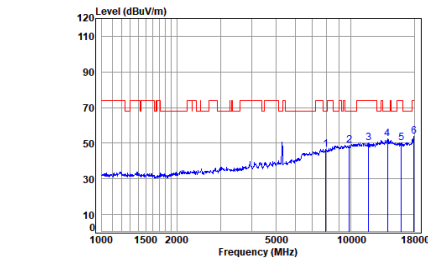
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11a_TX_CH_52_Vertical-Avg



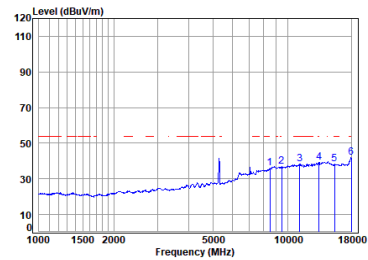
11a_TX_CH_60_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5300 TX RSE
: 56 Wi-Fi 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	7943.838	11.55	37.30	55.93	53.66	46.58	68.20	-21.62	Peak 0.00
2	9866.789	12.90	38.53	53.74	51.29	48.98	68.20	-19.22	Peak 0.00
3	11803.280	14.69	39.10	53.26	49.65	50.09	74.00	-23.91	Peak 0.00
4	pp14038.450	16.51	40.52	54.10	49.51	52.44	68.20	-15.76	Peak 0.00
5	15988.450	17.16	38.22	53.70	48.70	50.38	74.00	-23.62	Peak 0.00
6	17948.050	18.30	42.29	54.28	47.36	53.67	74.00	-20.33	Peak 0.00

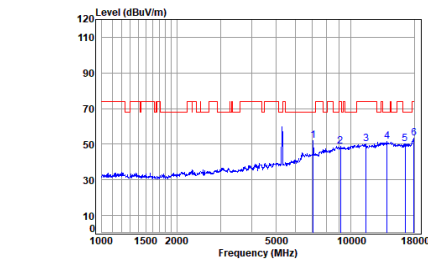
11a_TX_CH_60_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5300 TX RSE
: 56 Wi-Fi 11A

	Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	Factor
1	8489.882	12.24	37.78	55.29	41.15	35.88	54.00	-18.12	Average	0.00
2	9440.149	12.43	38.90	54.19	39.81	36.95	54.00	-17.05	Average	0.00
3	11172.560	14.73	39.45	53.45	37.63	38.36	54.00	-15.64	Average	0.00
4	13365.320	16.13	40.40	53.91	36.79	39.41	54.00	-14.59	Average	0.00
5	15443.410	16.82	38.96	53.92	36.39	38.25	54.00	-15.75	Average	0.00
6	pp18000.000	18.35	42.60	54.30	35.43	42.08	54.00	-11.92	Average	0.00

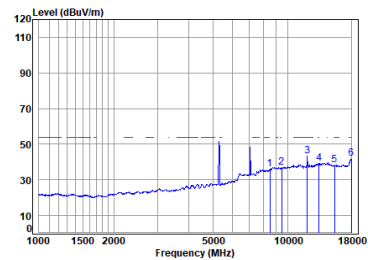
11a_TX_CH_60_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5300 TX RSE
: 56 Wi-Fi 11A

3 - 30 MHz - I-1A											
	Freq	Cable	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Limit Remark	Aux Factor	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB	
1	pp 7076.516	11.85	36.56	56.45	60.03	51.99	68.20	-16.21	Peak	0.00	
2	9099.724	12.12	38.50	54.50	52.76	48.00	74.00	-25.20	Peak	0.00	
3	11533.480	14.92	39.13	53.34	49.56	50.27	74.00	-23.73	Peak	0.00	
4	13997.930	16.46	40.59	54.10	48.68	51.63	68.20	-16.57	Peak	0.00	
5	16552.730	17.69	38.31	53.81	48.11	50.30	68.20	-17.90	Peak	0.00	
6	17948.050	18.30	42.29	54.28	47.25	53.56	74.00	-20.44	Peak	0.00	

11a_TX_CH_60_Vertical-Avg

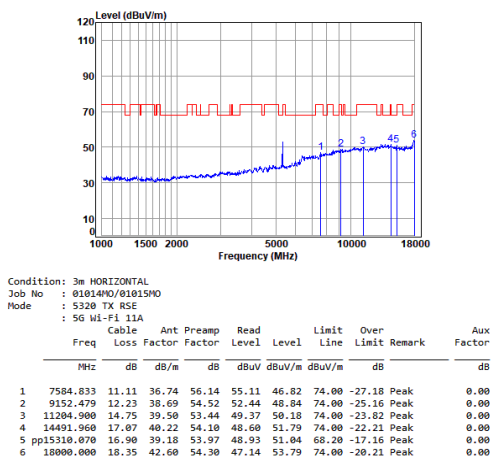


Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5300 TX RSE
: 56 Wi-Fi 11A

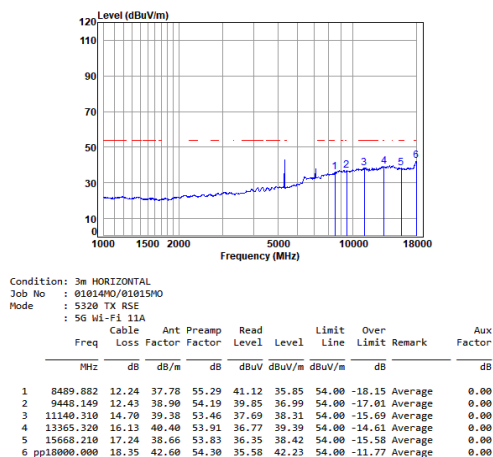
	Freq	Cable	Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Line	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	8489.882	12.24	37.78	55.29	41.17	35.90	54.00	-18.10	Average	0.00
2	9440.149	12.43	38.90	54.19	39.84	36.98	54.00	-17.02	Average	0.00
3	pp12009.760	14.57	39.29	53.21	42.73	43.38	54.00	-10.62	Average	0.00
4	13365.320	16.13	40.40	53.91	36.63	39.25	54.00	-14.75	Average	0.00
5	15443.410	16.82	38.96	53.92	36.51	38.37	54.00	-15.63	Average	0.00
6	18000.000	18.35	42.60	54.30	35.43	42.08	54.00	-11.92	Average	0.00



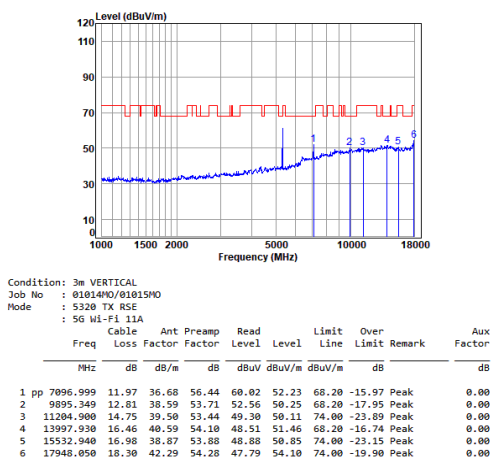
11a_TX_CH_64_Horizontal-Peak



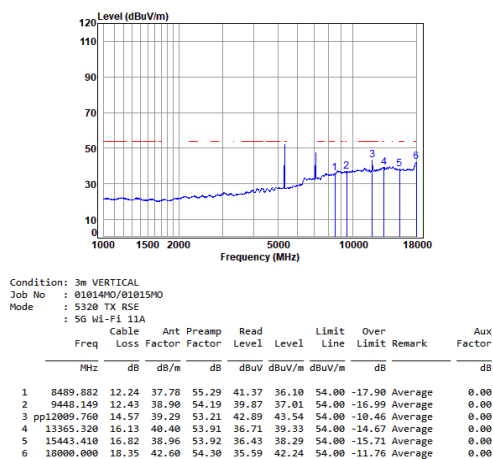
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11a_TX_CH_64_Vertical-Peak



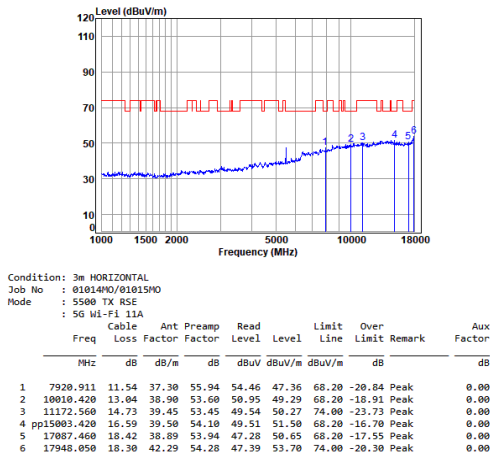
11a_TX_CH_64_Vertical-Avg



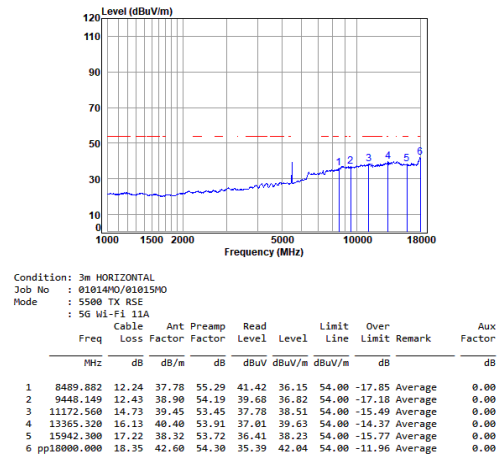
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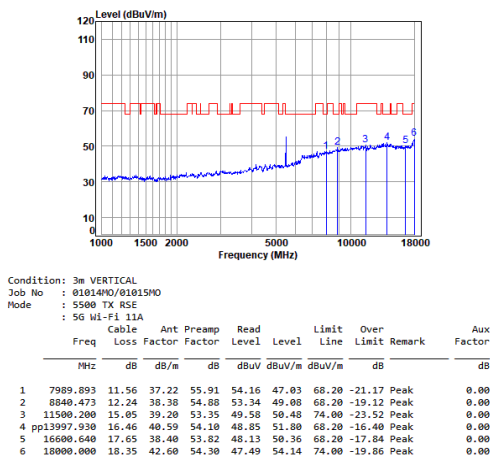
11a_TX_CH_100_Horizontal-Peak



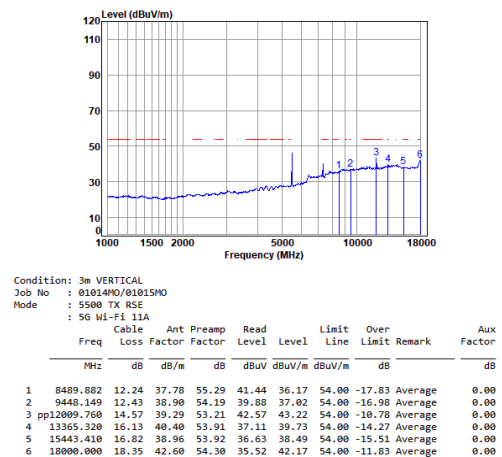
11a_TX_CH_100_Horizontal-Avg



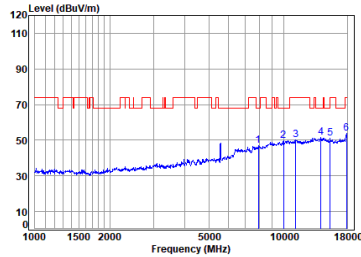
11a_TX_CH_100_Vertical-Peak



11a_TX_CH_100_Vertical-Avg



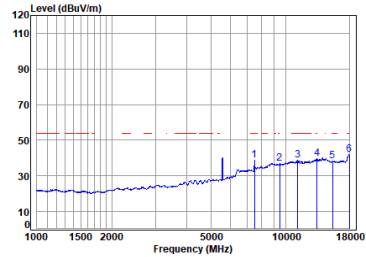
11a_TX_CH_116_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No.: 01014M0/01015M0
Mode: 5500 TX RSE
: 56 Wi-Fi 11A

Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
1	7920.911	11.54	37.30	55.94	54.10	47.00	68.20	-21.20	Peak
2	9981.525	12.57	38.03	53.62	51.34	49.52	68.20	-18.68	Peak
3	11172.560	14.73	39.45	53.45	49.37	50.10	74.00	-23.90	Peak
4	131419.830	16.45	40.42	54.10	48.67	51.44	68.20	-16.76	Peak
5	15398.830	16.77	39.00	53.94	49.40	51.23	74.00	-22.77	Peak
6	17896.250	18.25	41.97	54.26	47.95	53.91	74.00	-26.09	Peak

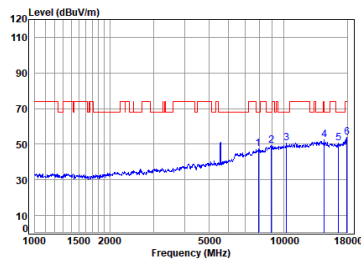
11a_TX_CH_116_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No.: 01014M0/01015M0
Mode: 5500 TX RSE
: 56 Wi-Fi 11A

Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
1	7497.646	11.24	36.80	56.19	46.73	36.58	54.00	-15.42	Average
2	9440.149	12.43	38.90	54.19	39.93	37.07	54.00	-16.93	Average
3	11172.560	14.73	39.45	53.45	37.91	38.64	54.00	-15.36	Average
4	13365.320	16.13	40.40	53.91	36.89	39.51	54.00	-14.49	Average
5	15443.410	16.82	38.96	53.92	36.34	38.20	54.00	-15.80	Average
6	18000.000	18.35	42.60	54.30	35.41	42.06	54.00	-11.94	Average

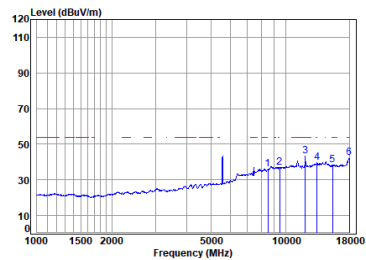
11a_TX_CH_116_Vertical-Peak



Condition: 3m VERTICAL
Job No.: 01014M0/01015M0
Mode: 5500 TX RSE
: 56 Wi-Fi 11A

Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
1	7920.911	11.54	37.30	55.94	54.34	47.24	68.20	-20.96	Peak
2	9917.462	12.21	38.43	54.79	53.21	49.06	68.20	-19.14	Peak
3	10274.240	13.45	39.17	53.57	51.55	50.60	68.20	-17.60	Peak
4	131453.910	16.79	40.20	54.10	49.48	52.37	68.20	-15.83	Peak
5	16600.640	17.65	38.40	53.82	48.27	50.50	68.20	-17.70	Peak
6	17948.050	18.30	42.29	54.28	47.65	53.96	74.00	-26.04	Peak

11a_TX_CH_116_Vertical-Avg



Condition: 3m VERTICAL
Job No.: 01014M0/01015M0
Mode: 5500 TX RSE
: 56 Wi-Fi 11A

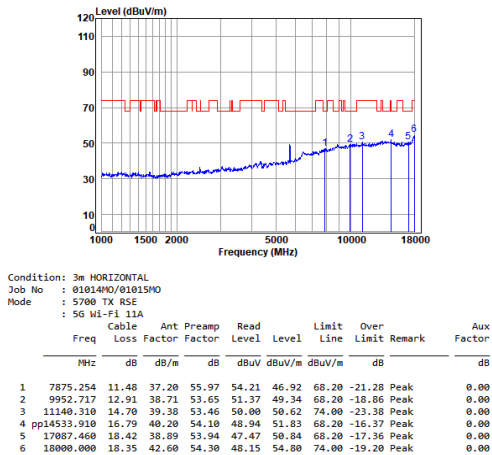
Freq	Cable	Loss	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	dB	dB/m	Factor	Factor	Level	dBuV/m	Line	Limit	Factor
1	8489.682	12.24	37.78	55.29	41.50	36.23	54.00	-17.77	Average
2	9440.149	12.43	38.90	54.19	39.94	37.08	54.00	-16.92	Average
3	10209.760	14.57	39.29	53.21	42.52	43.17	54.00	-10.83	Average
4	13365.320	16.13	40.40	53.91	36.88	39.50	54.00	-14.50	Average
5	15443.410	16.82	38.96	53.92	36.40	38.26	54.00	-15.74	Average
6	18000.000	18.35	42.60	54.30	35.57	42.22	54.00	-11.78	Average



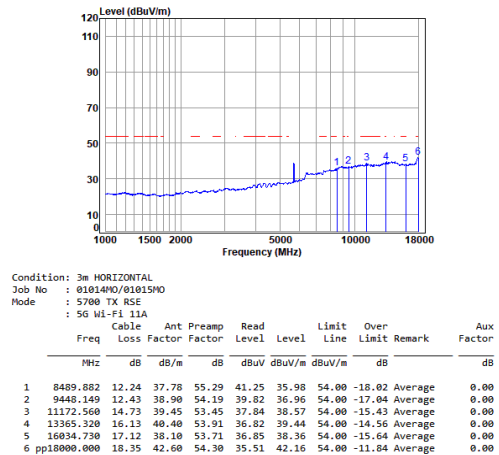
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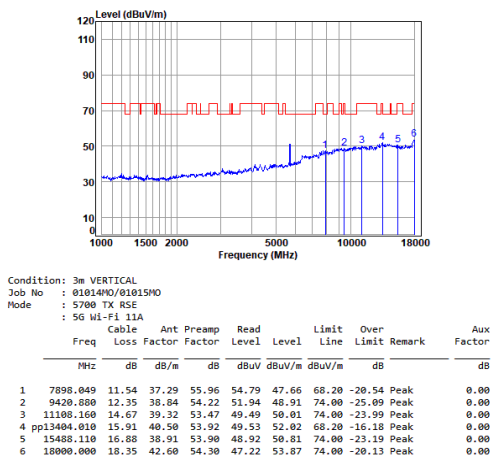
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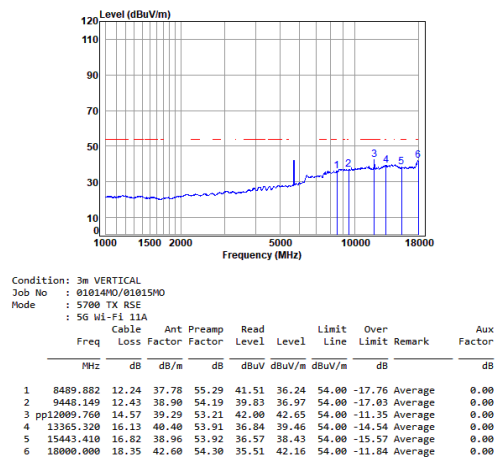
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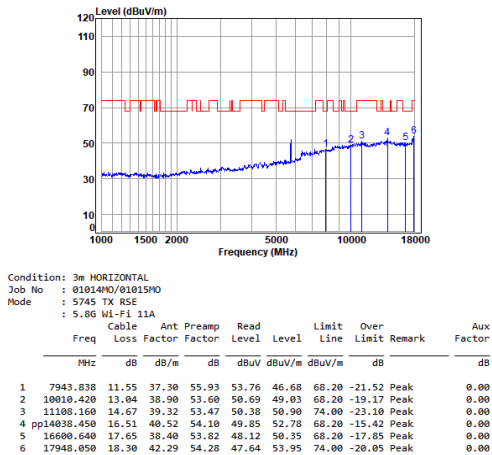
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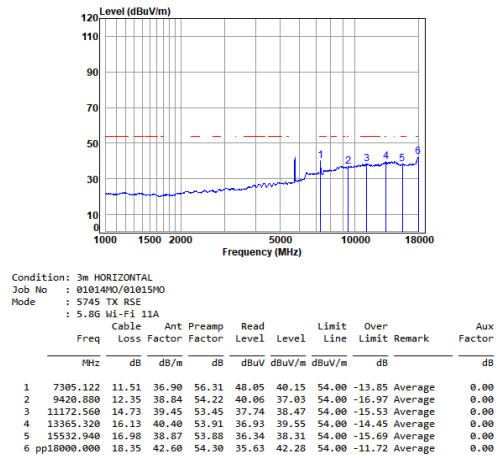
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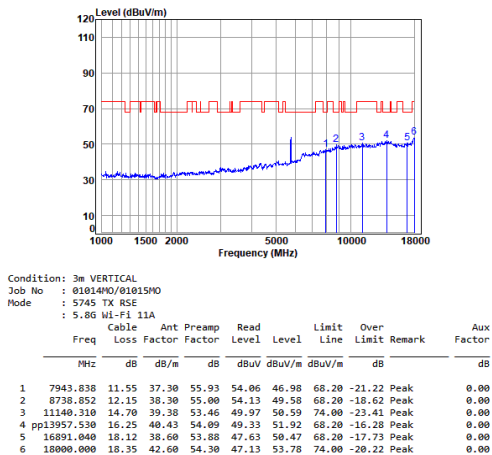
11a_TX_CH_149_Horizontal-Peak



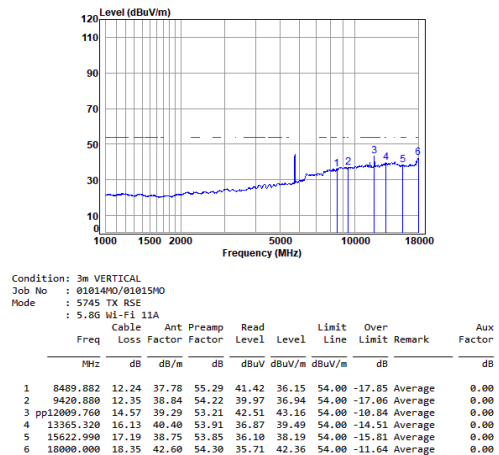
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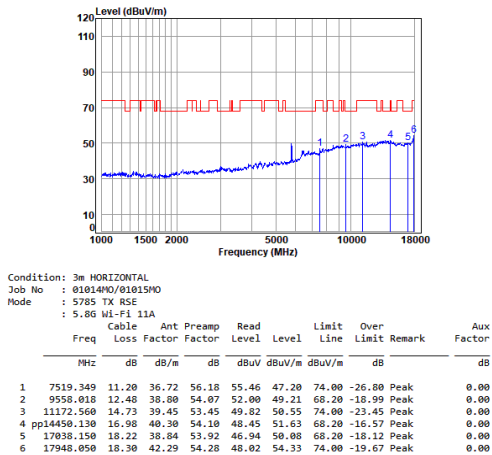
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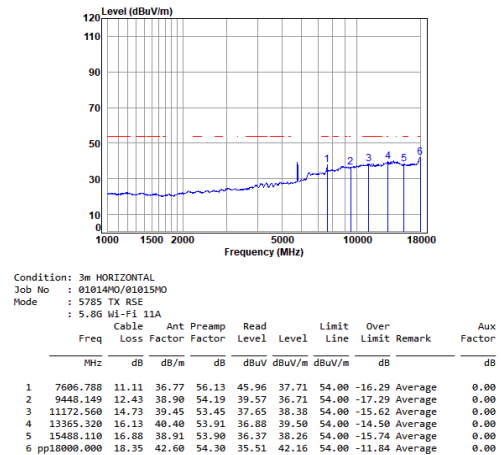
11a_TX_CH_149_Vertical-Avg



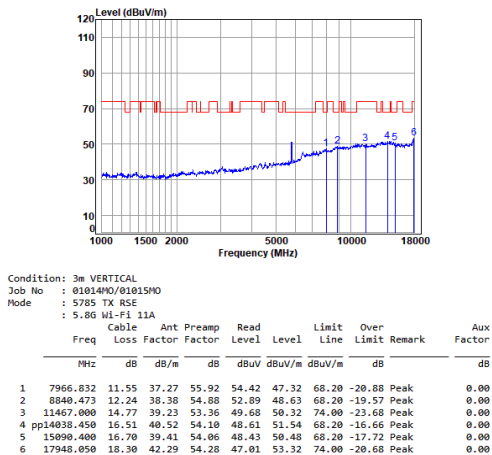
11a_TX_CH_157_Horizontal-Peak



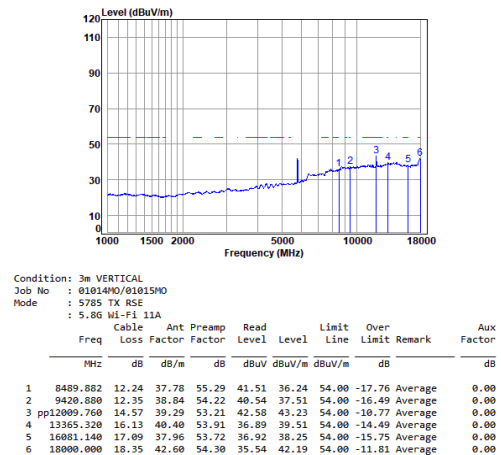
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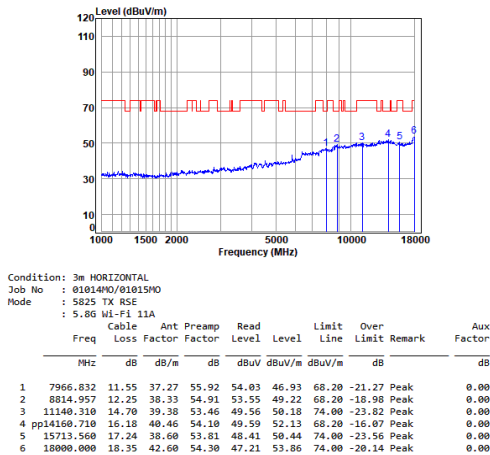
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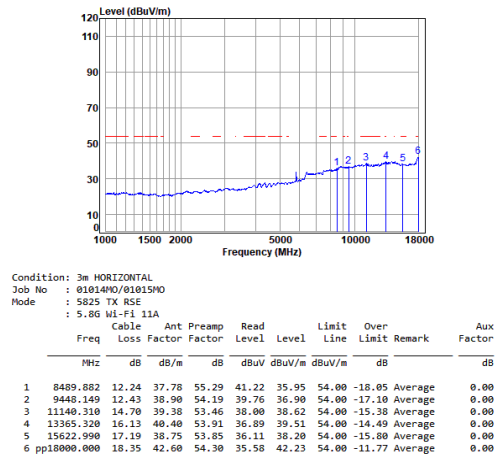
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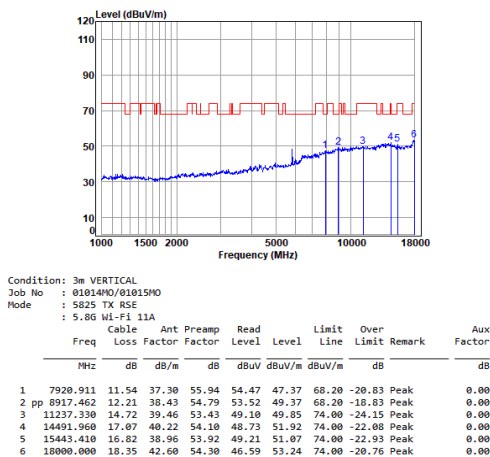
11a_TX_CH_165_Horizontal-Peak



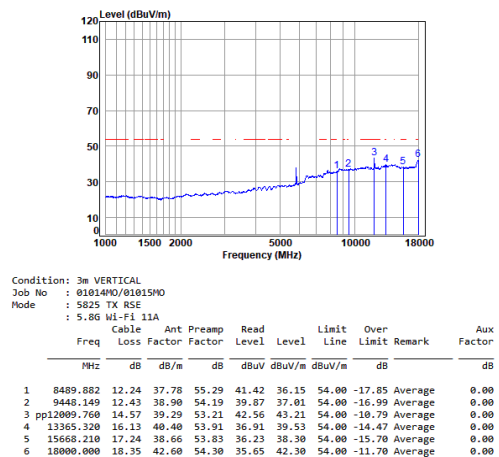
11a_TX_CH_165_Horizontal-Avg



11a_TX_CH_165_Vertical-Peak



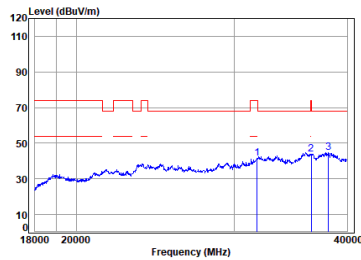
11a_TX_CH_165_Vertical-Avg



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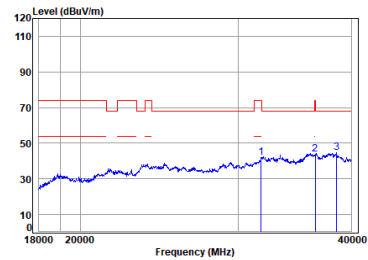
11a_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
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 31782.290	7.86	40.81	51.46	53.65	41.32	74.00	-32.68	Peak	-9.54
2 36490.470	7.91	42.10	49.59	53.00	43.88	74.00	-30.12	Peak	-9.54
3 pp38128.770	7.79	42.15	50.28	54.46	44.58	68.20	-23.62	Peak	-9.54

11a_TX_CH_36_Vertical



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
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 31782.290	7.86	40.81	51.46	54.09	41.76	74.00	-32.24	Peak	-9.54
2 36490.470	7.91	42.10	49.59	53.08	43.96	74.00	-30.04	Peak	-9.54
3 pp38526.630	7.53	42.81	50.61	54.39	44.58	68.20	-23.62	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: 23.0 °C

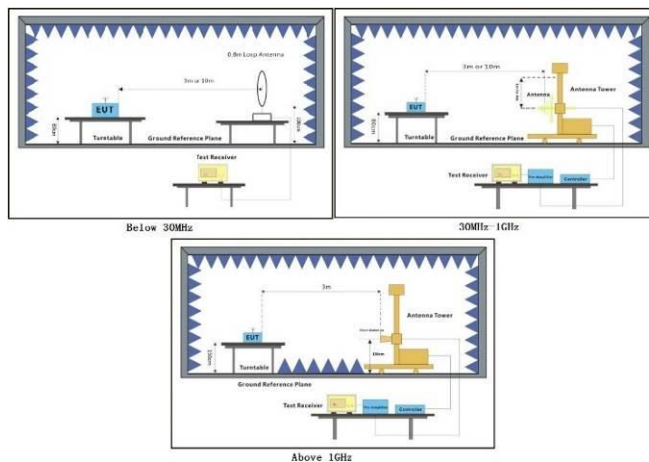
Humidity: 55.2 % RH

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.

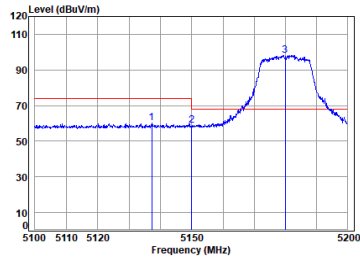
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.



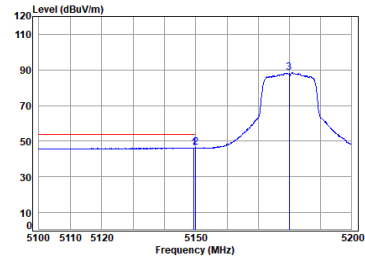
11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5180 Band edge
: 5G Wi-Fi 11A

	Freq	Cable	Ant	Preamp	Read	Level	Limit	Over		Aux
	MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	dB	Limit	Factor
1	5137.272	10.09	33.30	29.96	46.73	60.16	74.00	-13.84	Peak	0.00
2	5149.980	10.14	33.30	29.95	45.56	59.05	74.00	-14.95	Peak	0.00
3	5180.000	10.25	33.30	29.94	84.66	98.27	68.20	30.07	Peak	0.00

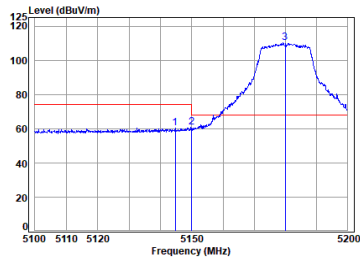
11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5180 Band edge
: 5G Wi-Fi 11A

	Freq	Cable	Ant	Preamp	Read	Level	Limit	Over		Aux
	MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	dB	Limit	Factor
1	5149.458	10.14	33.30	29.95	32.71	46.20	54.00	-7.80	Average	0.00
2	5149.980	10.14	33.30	29.95	32.83	46.32	54.00	-7.68	Average	0.00
3	5180.000	10.25	33.30	29.94	74.93	88.54	68.20	20.34	Average	0.00

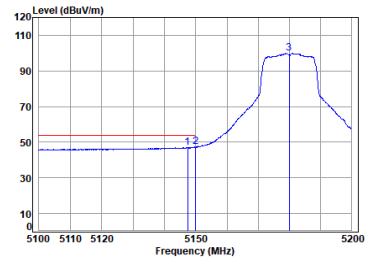
11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5180 Band edge
: 5G Wi-Fi 11A

	Freq	Cable	Ant	Preamp	Read	Level	Limit	Over		Aux
	MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	dB	Limit	Factor
1	5144.660	10.12	33.30	29.95	46.99	60.46	74.00	-13.54	Peak	0.00
2	5149.980	10.14	33.30	29.95	47.18	60.67	74.00	-13.33	Peak	0.00
3	5180.000	10.25	33.30	29.94	96.43	110.04	68.20	41.84	Peak	0.00

11a_TX_CH_36_Vertical-Avg

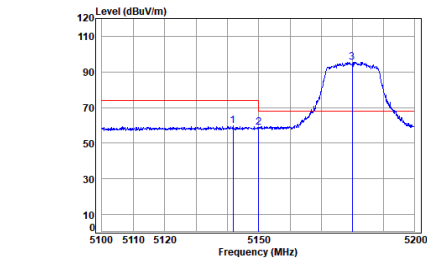


Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5180 Band edge
: 5G Wi-Fi 11A

	Freq	Cable	Ant	Preamp	Read	Level	Limit	Over		Aux
	MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	dB	Limit	Factor
1	5147.458	10.13	33.30	29.95	33.68	47.16	54.00	-6.84	Average	0.00
2	5149.980	10.14	33.30	29.95	33.93	47.42	54.00	-6.58	Average	0.00
3	5180.000	10.25	33.30	29.94	86.51	100.12	68.20	31.92	Average	0.00



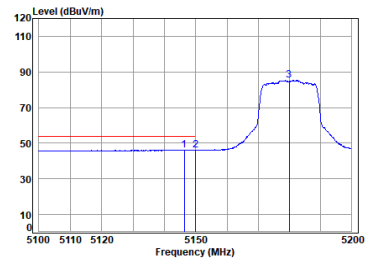
11ac_VHT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5180 Band edge
: 56 Wi-Fi 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
	MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
		dB			dBuV/m	dBuV/m	dB	
1	5141.764	10.11	33.30	29.95	46.09	59.55	74.00	-14.45 Peak 0.00
2	5149.908	10.14	33.30	29.95	45.33	58.82	74.00	-15.18 Peak 0.00
3	5180.000	10.25	33.30	29.94	81.91	95.52	68.20	27.32 Peak 0.00

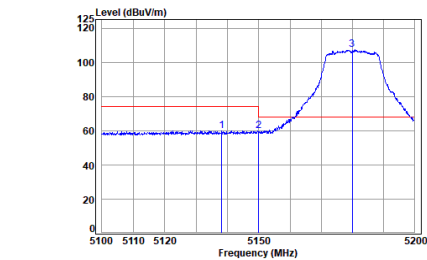
11ac_VHT(20M)_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5180 Band edge
: 56 Wi-Fi 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
	MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
		dB			dBuV/m	dBuV/m	dB	
1	5146.358	10.13	33.30	29.95	32.70	46.18	54.00	-7.82 Average 0.00
2	5149.908	10.14	33.30	29.95	32.70	46.19	54.00	-7.81 Average 0.00
3	5180.000	10.25	33.30	29.94	71.61	85.22	-----	----- Average 0.00

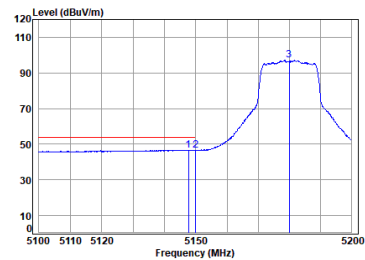
11ac_VHT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5180 Band edge
: 56 Wi-Fi 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
	MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
		dB			dBuV/m	dBuV/m	dB	
1	5138.170	10.10	33.30	29.96	46.58	60.02	74.00	-13.98 Peak 0.00
2	5149.908	10.14	33.30	29.95	46.32	59.81	74.00	-14.19 Peak 0.00
3	5180.000	10.25	33.30	29.94	93.68	107.29	68.20	39.09 Peak 0.00

11ac_VHT(20M)_TX_CH_36_Vertical-Avg

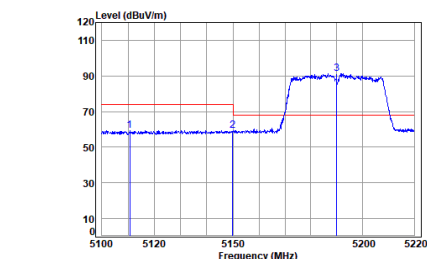


Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5180 Band edge
: 56 Wi-Fi 11AC20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
	MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
		dB			dBuV/m	dBuV/m	dB	
1	5147.658	10.13	33.30	29.95	33.27	46.75	54.00	-7.25 Average 0.00
2	5149.908	10.14	33.30	29.95	33.20	46.69	54.00	-7.31 Average 0.00
3	5180.000	10.25	33.30	29.94	83.45	97.06	-----	----- Average 0.00



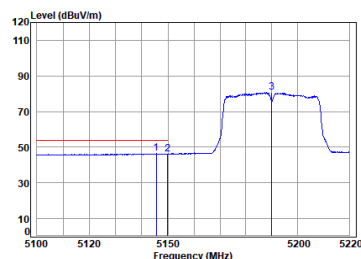
11ac_VHT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5190 Band edge
: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5110.567	9.99	33.30	29.95	46.11	59.44	74.00	-14.56	Peak	0.00
2	5149.908	10.14	33.30	29.95	45.66	59.15	74.00	-14.85	Peak	0.00
3 pp	5190.000	10.29	33.30	29.94	77.52	91.17	68.20	22.97	Peak	0.00

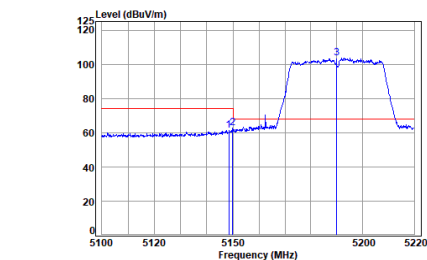
11ac_VHT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5190 Band edge
: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5145.511	10.12	33.30	29.95	32.92	46.39	54.00	-7.61	Average	0.00
2	5149.908	10.14	33.30	29.95	32.79	46.28	54.00	-7.72	Average	0.00
3	5190.000	10.29	33.30	29.94	66.94	80.59	68.20	12.39	Average	0.00

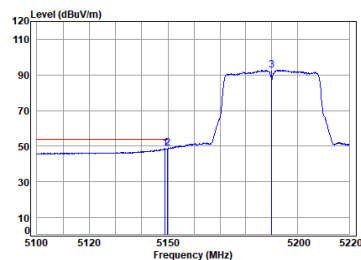
11ac_VHT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5190 Band edge
: 5G Wi-Fi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5148.503	10.14	33.30	29.95	47.96	61.45	74.00	-12.55	Peak	0.00
2	5149.908	10.14	33.30	29.95	49.34	62.83	74.00	-11.17	Peak	0.00
3 pp	5190.000	10.29	33.30	29.94	90.00	103.65	68.20	35.45	Peak	0.00

11ac_VHT(40M)_TX_CH_38_Vertical-Avg

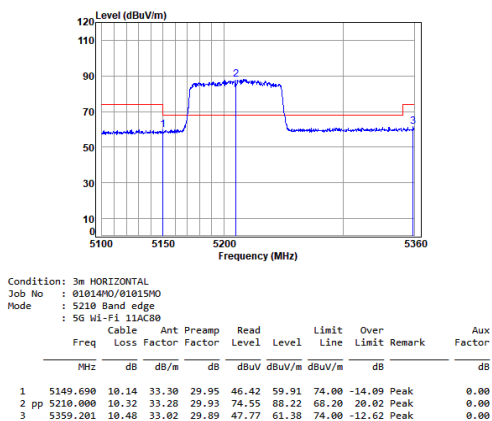


Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5190 Band edge
: 5G Wi-Fi 11AC40

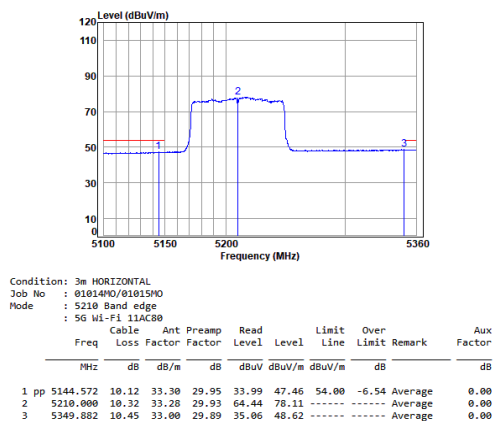
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5148.982	10.14	33.30	29.95	35.41	48.90	54.00	-5.10	Average	0.00
2	5149.908	10.14	33.30	29.95	35.19	48.68	54.00	-5.32	Average	0.00
3	5190.000	10.29	33.30	29.94	79.13	92.78	68.20	24.58	Average	0.00



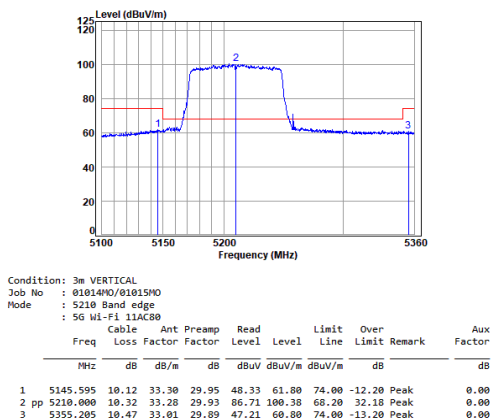
11ac_VHT(80M)_TX_CH_42_Horizontal-Peak



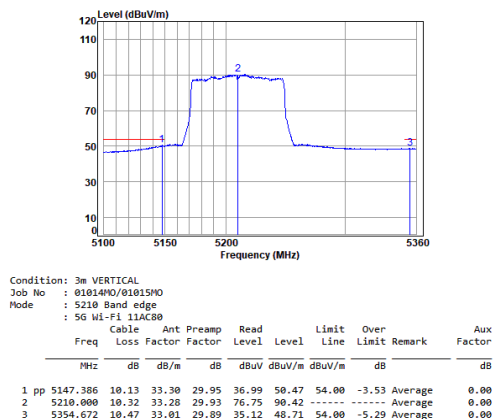
11ac_VHT(80M)_TX_CH_42_Horizontal-Avg



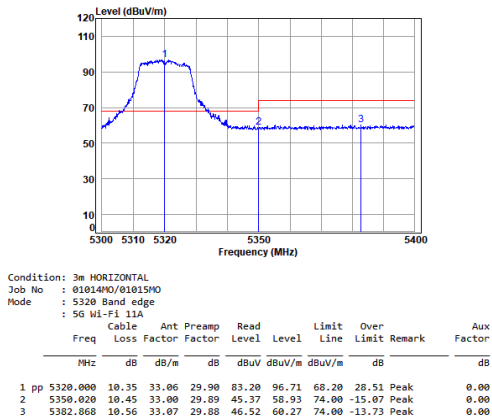
11ac_VHT(80M)_TX_CH_42_Vertical-Peak



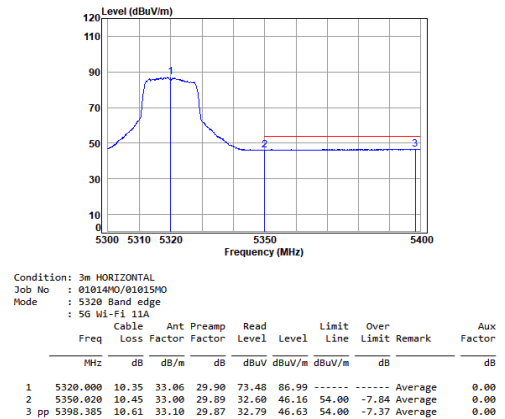
11ac_VHT(80M)_TX_CH_42_Vertical-Avg



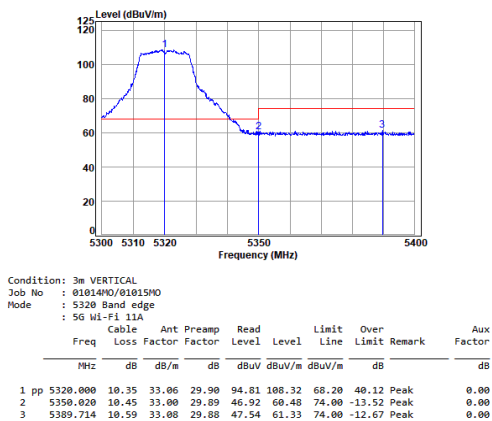
11a_TX_CH_64_Horizontal-Peak



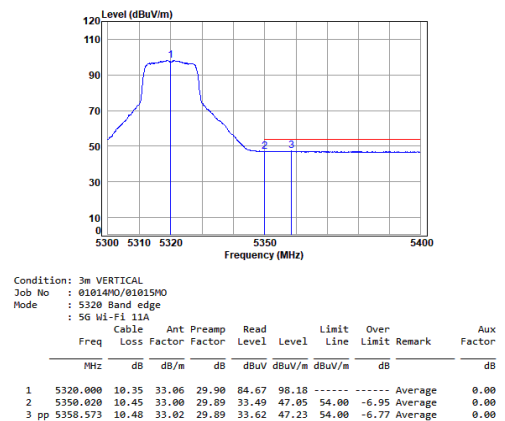
11a_TX_CH_64_Horizontal-Avg



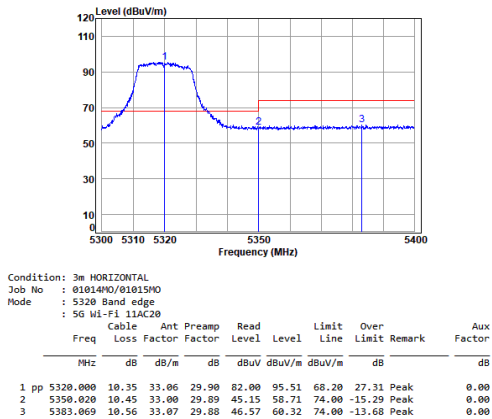
11a_TX_CH_64_Vertical-Peak



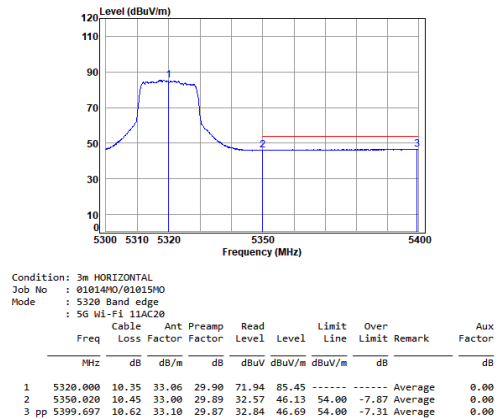
11a_TX_CH_64_Vertical-Avg



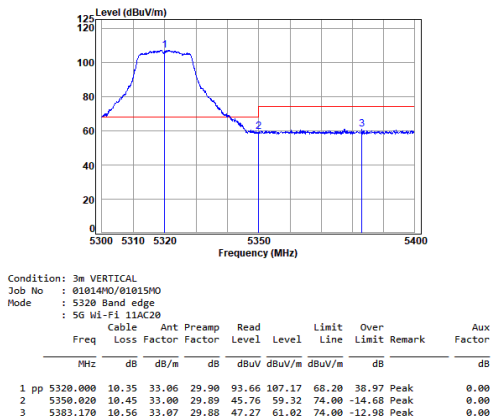
11ac_VHT(20M)_TX_CH_64_Horizontal-Peak



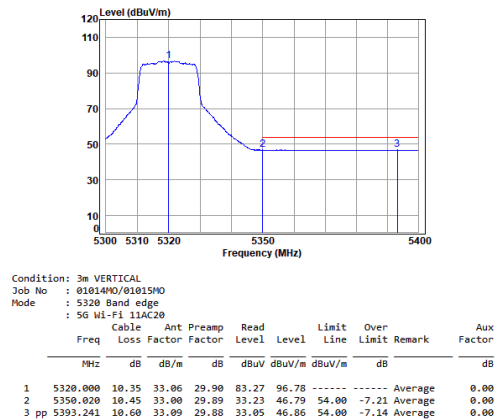
11ac_VHT(20M)_TX_CH_64_Horizontal-Avg



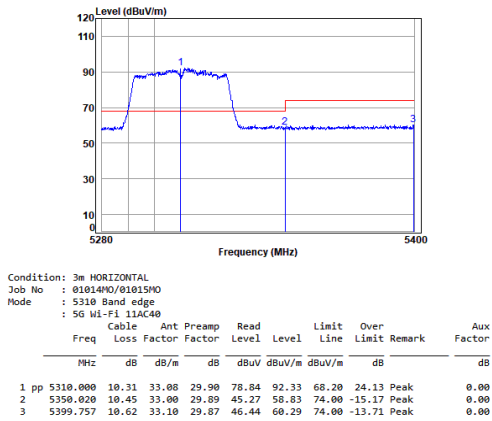
11ac_VHT(20M)_TX_CH_64_Vertical-Peak



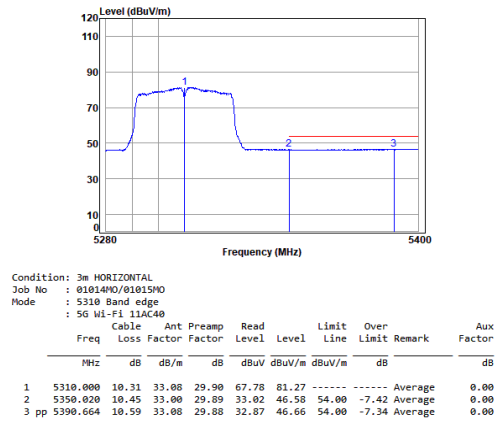
11ac_VHT(20M)_TX_CH_64_Vertical-Avg



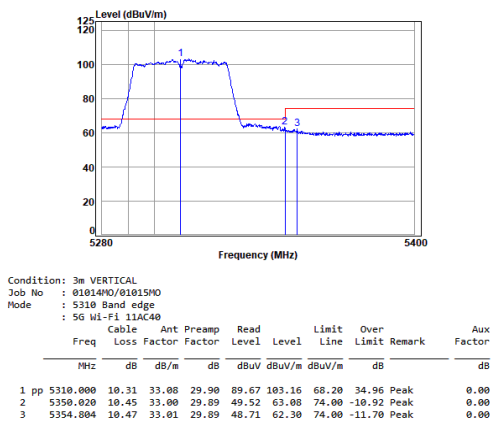
11ac_VHT(40M)_TX_CH_62_Horizontal-Peak



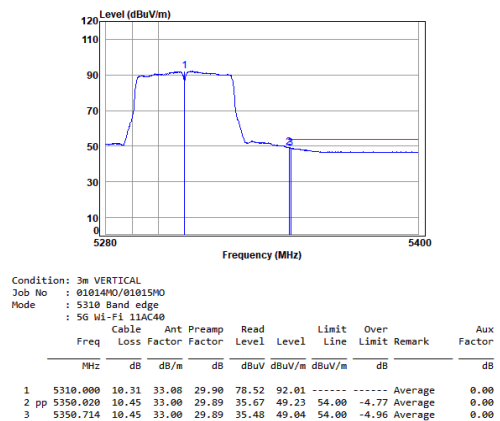
11ac_VHT(40M)_TX_CH_62_Horizontal-Avg



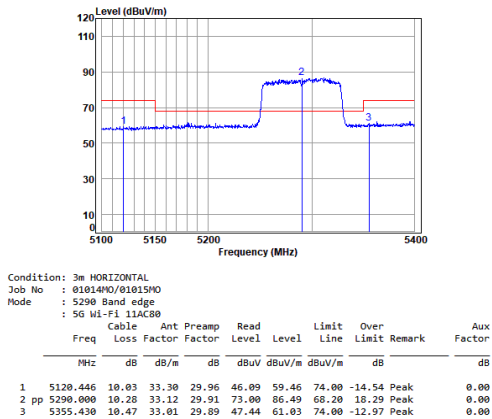
11ac_VHT(40M)_TX_CH_62_Vertical-Peak



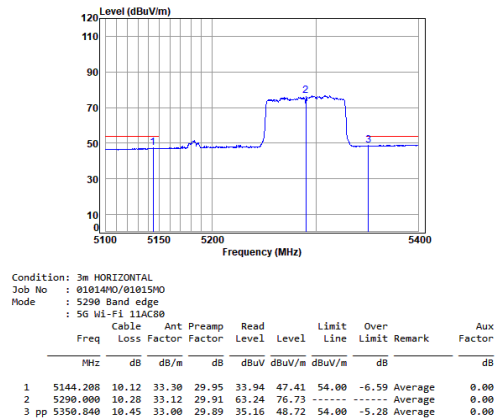
11ac_VHT(40M)_TX_CH_62_Vertical-Avg



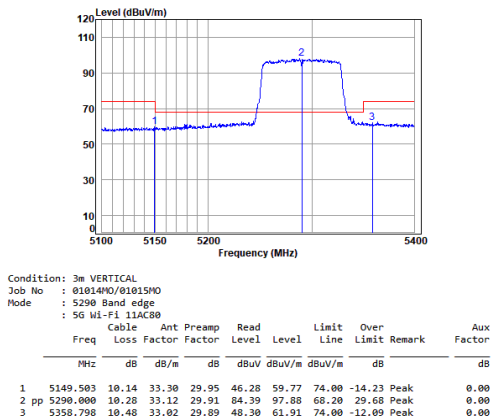
11ac_VHT(80M)_TX_CH_58_Horizontal-Peak



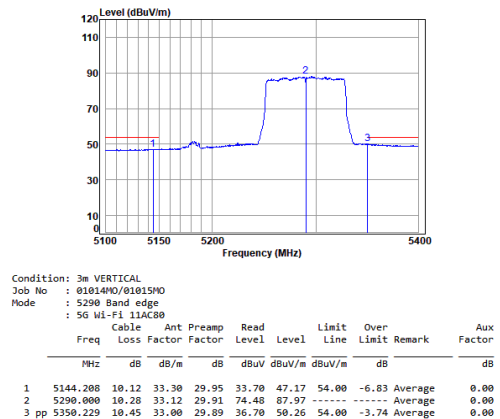
11ac_VHT(80M)_TX_CH_58_Horizontal-Avg



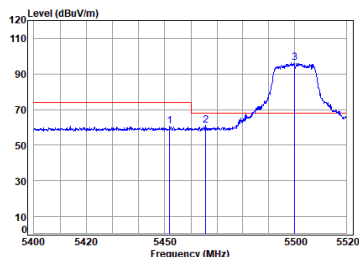
11ac_VHT(80M)_TX_CH_58_Vertical-Peak



11ac_VHT(80M)_TX_CH_58_Vertical-Avg



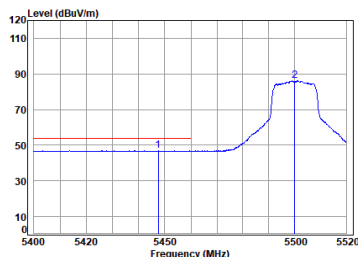
11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5500 Band edge
: 5G Wi-Fi 11A

	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	5491.876	10.60	33.10	29.86	46.68	60.52	74.00	-13.48	Peak	0.00
2	5465.793	10.59	33.10	29.85	47.17	61.01	68.20	-7.19	Peak	0.00
3 pp	5500.000	10.58	33.10	29.84	82.22	96.06	68.20	27.86	Peak	0.00

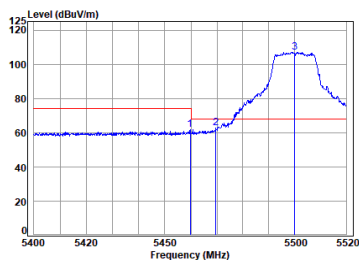
11a_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5500 Band edge
: 5G Wi-Fi 11A

	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	5447.444	10.60	33.10	29.86	33.09	46.93	54.00	-7.07	Average	0.00
2	5500.000	10.58	33.10	29.84	72.41	86.25	68.20	18.05	Average	0.00

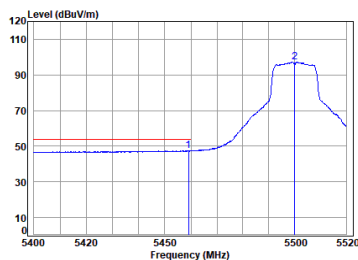
11a_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5500 Band edge
: 5G Wi-Fi 11A

	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	5499.791	10.60	33.10	29.86	47.74	61.58	74.00	-12.42	Peak	0.00
2	5469.519	10.59	33.10	29.85	48.75	62.59	68.20	-5.61	Peak	0.00
3 pp	5500.000	10.58	33.10	29.84	93.31	107.15	68.20	38.95	Peak	0.00

11a_TX_CH_100_Vertical-Avg

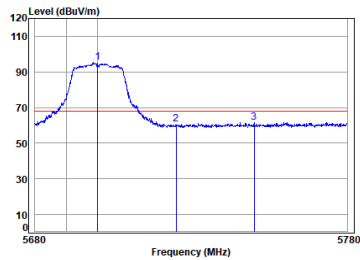


Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5500 Band edge
: 5G Wi-Fi 11A

	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	5459.070	10.60	33.10	29.86	33.60	47.44	54.00	-6.56	Average	0.00
2	5500.000	10.58	33.10	29.84	83.49	97.33	68.20	29.13	Average	0.00



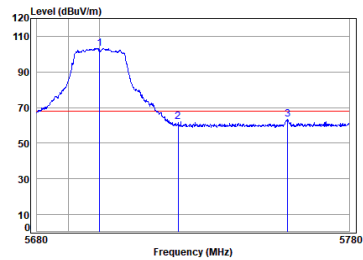
11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5700 Band edge
: 56 Wi-Fi 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 pp 5700.000	10.56	33.70	29.78	80.71	95.19	68.20	26.99 Peak	0.00
2 5725.000	10.68	33.75	29.78	45.92	60.57	68.20	-7.63 Peak	0.00
3 5750.017	10.79	33.80	29.77	46.83	61.65	68.20	-6.55 Peak	0.00

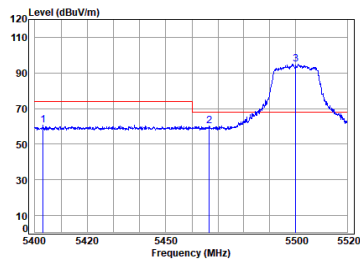
11a_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5700 Band edge
: 56 Wi-Fi 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 pp 5700.000	10.56	33.70	29.78	88.81	103.29	68.20	35.09 Peak	0.00
2 5725.000	10.68	33.75	29.78	47.58	62.15	68.20	-6.85 Peak	0.00
3 5768.162	10.84	33.84	29.77	48.40	63.31	68.20	-4.89 Peak	0.00

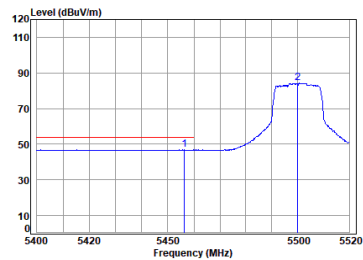
11ac_VHT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5500 Band edge
: 56 Wi-Fi 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 5483.206	10.62	33.10	29.87	46.70	60.55	74.00	-13.45 Peak	0.00
2 5466.755	10.59	33.10	29.85	46.31	60.15	68.20	-8.05 Peak	0.00
3 pp 5500.000	10.58	33.10	29.84	80.96	94.80	68.20	26.60 Peak	0.00

11ac_VHT(20M)_TX_CH_100_Horizontal-Avg

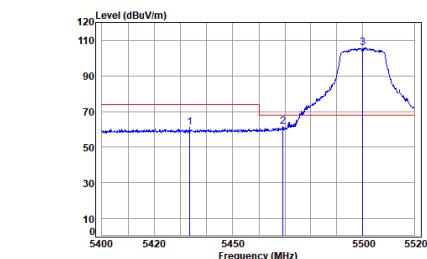


Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5500 Band edge
: 56 Wi-Fi 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 pp 5456.431	10.60	33.10	29.86	33.04	46.88	54.00	-7.12 Average	0.00
2 5500.000	10.58	33.10	29.84	70.35	84.19	-----	----- Average	0.00



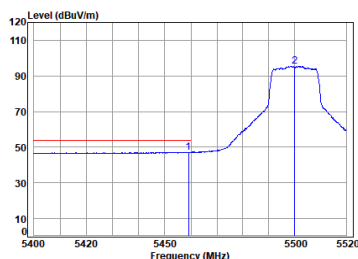
11ac_VHT(20M)_TX_CH_100_Verical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5500 Band edge
: 5G Wi-Fi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1	5433.454	10.61	33.10	29.86	47.07	60.92	74.00	-13.08 Peak	0.00
2	5469.279	10.59	33.10	29.85	47.54	61.38	68.20	-6.82 Peak	0.00
3 pp	5500.000	10.58	33.10	29.84	92.15	105.99	68.20	37.79 Peak	0.00

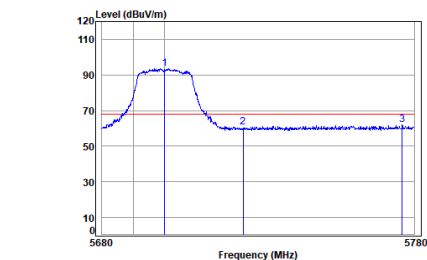
11ac_VHT(20M)_TX_CH_100_Verical-Avg



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5500 Band edge
: 5G Wi-Fi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 pp	5459.070	10.60	33.10	29.86	33.38	47.22	54.00	-6.78 Average	0.00
2	5500.000	10.58	33.10	29.84	81.75	95.59	-----	Average	0.00

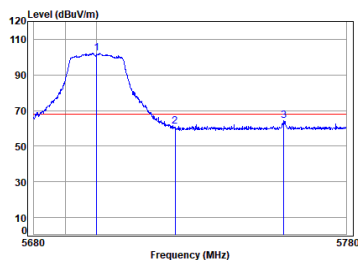
11ac_VHT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5700 Band edge
: 5G Wi-Fi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 pp	5700.000	10.56	33.70	29.78	78.93	93.41	68.20	25.21 Peak	0.00
2	5725.000	10.68	33.75	29.78	46.23	60.88	68.20	-7.32 Peak	0.00
3	5776.168	10.91	33.90	29.76	46.82	61.87	68.20	-6.33 Peak	0.00

11ac_VHT(20M)_TX_CH_140_Verical-Peak

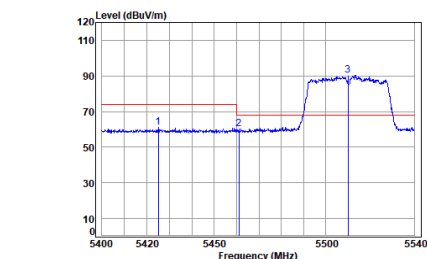


Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5700 Band edge
: 5G Wi-Fi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 pp	5700.000	10.56	33.70	29.78	87.54	102.02	68.20	33.82 Peak	0.00
2	5725.000	10.68	33.75	29.78	46.29	60.94	68.20	-7.26 Peak	0.00
3	5759.860	10.84	33.84	29.77	49.57	64.48	68.20	-3.72 Peak	0.00



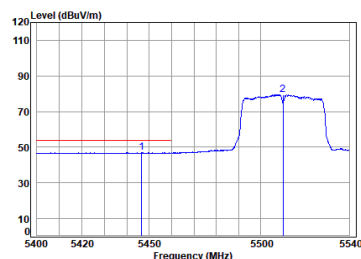
11ac_VHT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5510 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	5425.075	10.61	33.10	29.87	47.08	60.92	74.00	-13.08 Peak	0.00
2	5461.019	10.60	33.10	29.85	46.58	60.43	68.20	-7.77 Peak	0.00
3 pp	5510.000	10.56	33.10	29.84	76.61	90.43	68.20	22.23 Peak	0.00

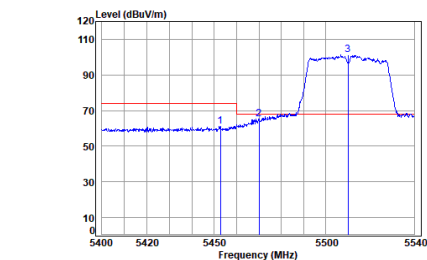
11ac_VHT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5510 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 pp	5446.501	10.60	33.10	29.86	33.04	46.88	54.00	-7.12 Average	0.00
2	5510.000	10.56	33.10	29.84	65.71	79.53	-----	Average	0.00

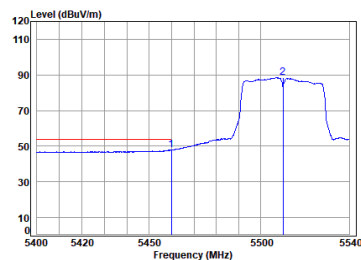
11ac_VHT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5510 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	5452.778	10.60	33.10	29.86	47.41	61.25	74.00	-12.75 Peak	0.00
2	5469.972	10.59	33.10	29.85	51.35	65.19	68.20	-3.01 Peak	0.00
3 pp	5510.000	10.56	33.10	29.84	87.29	101.11	68.20	32.91 Peak	0.00

11ac_VHT(40M)_TX_CH_102_Vertical-Avg

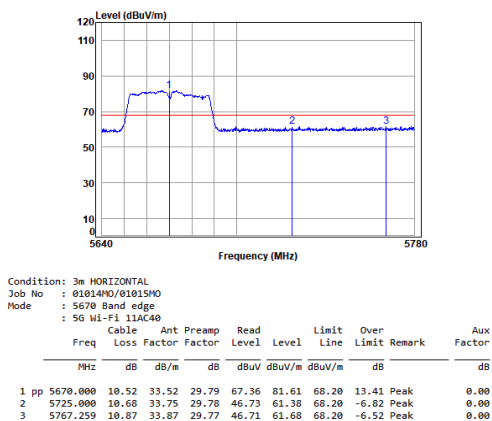


Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5510 Band edge
: 5G Wi-Fi 11AC40

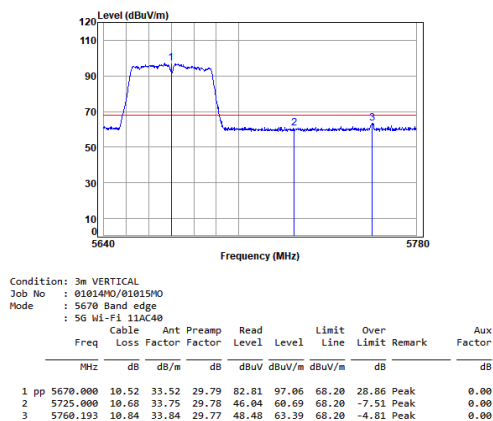
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	5459.901	10.60	33.10	29.86	34.12	47.96	54.00	-6.04 Average	0.00
2	5510.000	10.56	33.10	29.84	74.53	88.35	-----	Average	0.00



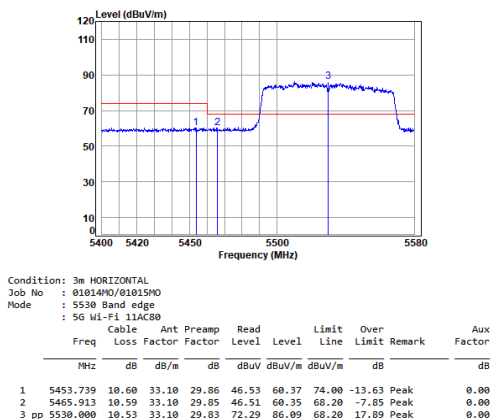
11ac_VHT(40M)_TX_CH_134_Horizontal-Peak



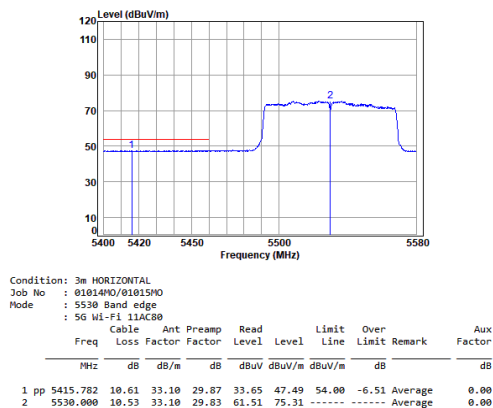
11ac_VHT(40M)_TX_CH_134_Vertical-Peak



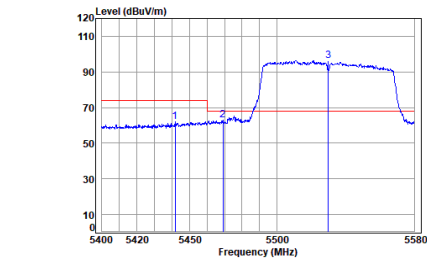
11ac_VHT(80M)_TX_CH_106_Horizontal-Peak



11ac_VHT(80M)_TX_CH_106_Horizontal-Avg



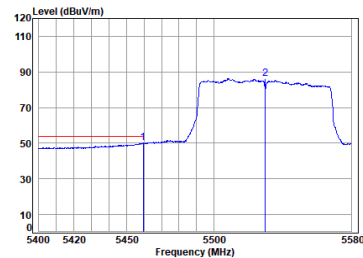
11ac_VHT(80M)_TX_CH_106_Verical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5530 Band edge
: 56 Wi-Fi 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 5441.593	10.60	33.10	29.86	48.27	62.11	74.00	-11.89	Peak	0.00
2 5469.148	10.59	33.10	29.85	49.20	63.04	68.20	-5.16	Peak	0.00
3 pp 5530.000	10.53	33.10	29.83	82.63	96.43	68.20	28.23	Peak	0.00

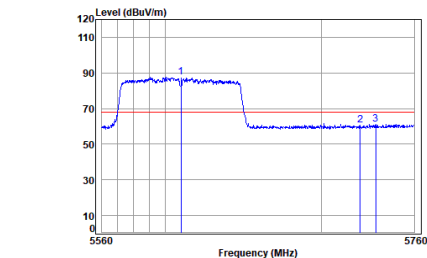
11ac_VHT(80M)_TX_CH_106_Verical-Avg



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5530 Band edge
: 56 Wi-Fi 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 pp 5459.465	10.60	33.10	29.86	36.22	50.06	54.00	-3.94	Average	0.00
2 5530.000	10.53	33.10	29.83	72.37	86.17	68.20	17.97	Average	0.00

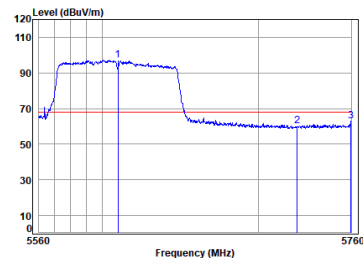
11ac_VHT(80M)_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5610 Band edge
: 56 Wi-Fi 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 pp 5610.000	10.43	33.40	29.81	73.48	87.50	68.20	19.30	Peak	0.00
2 5725.000	10.68	33.75	29.78	45.89	60.54	68.20	-7.66	Peak	0.00
3 5735.017	10.72	33.77	29.77	46.33	61.05	68.20	-7.15	Peak	0.00

11ac_VHT(80M)_TX_CH_122_Verical-Peak



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5610 Band edge
: 56 Wi-Fi 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 pp 5610.000	10.43	33.40	29.81	83.20	97.22	68.20	29.02	Peak	0.00
2 5725.000	10.68	33.75	29.78	45.75	60.40	68.20	-7.80	Peak	0.00
3 5735.017	10.84	33.84	29.77	47.97	62.88	68.20	-5.32	Peak	0.00



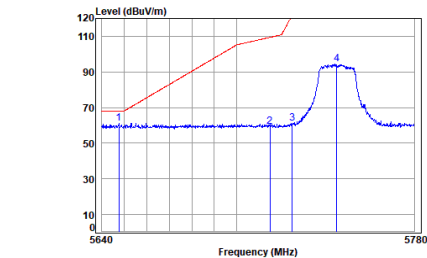
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

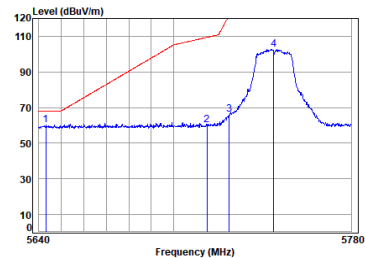
11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5745 Band edge
: 5.8G Wi-Fi 11A

	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	5647.611	10.48	33.40	29.80	47.09	61.17	68.20	-7.03	Peak	0.00
2	5715.000	10.63	33.73	29.78	44.89	59.47	109.40	-49.93	Peak	0.00
3	5725.000	10.68	33.75	29.78	46.51	61.16	122.20	-61.04	Peak	0.00
4	5745.000	10.77	33.79	29.77	79.63	94.42	-----	-----	Peak	0.00

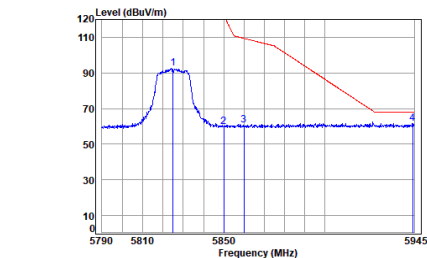
11a_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5745 Band edge
: 5.8G Wi-Fi 11A

	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	5643.043	10.47	33.40	29.80	46.10	60.17	68.20	-8.03	Peak	0.00
2	5715.000	10.63	33.73	29.78	45.73	60.31	109.40	-49.09	Peak	0.00
3	5725.000	10.68	33.75	29.78	51.41	66.06	122.20	-56.14	Peak	0.00
4	5745.000	10.77	33.79	29.77	87.86	102.65	-----	-----	Peak	0.00

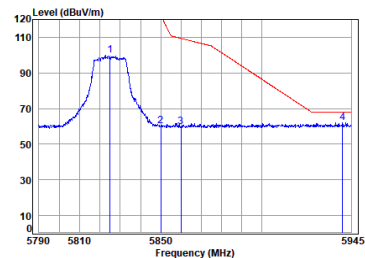
11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5825 Band edge
: 5.8G Wi-Fi 11A

	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	5825.000	10.99	34.10	29.75	77.08	92.42	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	44.33	59.74	122.20	-62.46	Peak	0.00
3	5860.000	10.94	34.22	29.74	45.33	60.75	109.40	-48.65	Peak	0.00
4	5944.215	10.85	34.21	29.72	46.22	61.56	68.20	-6.64	Peak	0.00

11a_TX_CH_165_Vertical



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5825 Band edge
: 5.8G Wi-Fi 11A

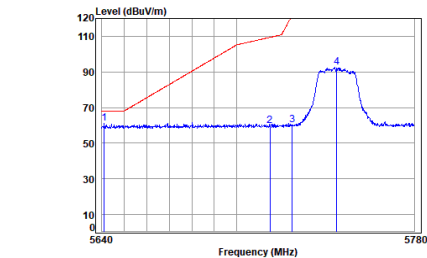
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5825.000	10.99	34.10	29.75	84.50	99.84	-----	-----	Peak	0.00
2	5850.000	10.95	34.20	29.74	44.70	60.11	122.20	-62.09	Peak	0.00
3	5860.000	10.94	34.22	29.74	44.49	59.91	109.40	-49.49	Peak	0.00
4	5948.604	10.86	34.22	29.72	46.60	61.96	68.20	-6.24	Peak	0.00



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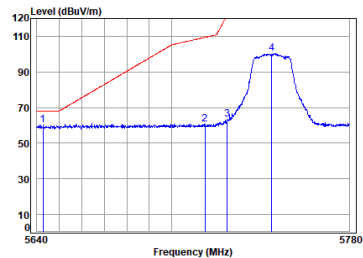
11ac_VHT(20M)_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5745 Band edge
: 5.8G Wi-Fi 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 5640.968	10.47	33.40	29.80	47.28	61.35	68.20	-6.85	Peak	0.00
2 5715.000	10.63	33.73	29.78	45.25	59.83	109.40	-49.57	Peak	0.00
3 5725.000	10.68	33.75	29.78	45.64	60.29	122.20	-61.91	Peak	0.00
4 5745.000	10.77	33.79	29.77	77.66	92.45	-----	-----	Peak	0.00

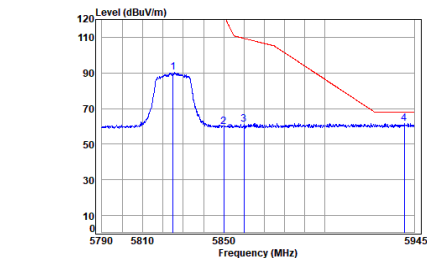
11ac_VHT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5745 Band edge
: 5.8G Wi-Fi 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 5642.767	10.47	33.40	29.80	46.35	60.42	68.20	-7.78	Peak	0.00
2 5715.000	10.63	33.73	29.78	46.07	60.65	109.40	-48.75	Peak	0.00
3 5725.000	10.68	33.75	29.78	48.99	63.64	122.20	-58.56	Peak	0.00
4 5745.000	10.77	33.79	29.77	85.81	100.60	-----	-----	Peak	0.00

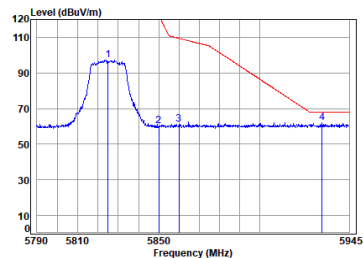
11ac_VHT(20M)_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5825 Band edge
: 5.8G Wi-Fi 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 5825.000	10.99	34.10	29.75	74.80	90.14	-----	-----	Peak	0.00
2 5850.000	10.95	34.20	29.74	44.33	59.74	122.20	-62.46	Peak	0.00
3 5860.000	10.94	34.22	29.74	45.72	61.14	109.40	-48.26	Peak	0.00
4 pp 5939.976	10.86	34.22	29.72	46.11	61.47	68.20	-6.73	Peak	0.00

11ac_VHT(20M)_TX_CH_165_Vertical

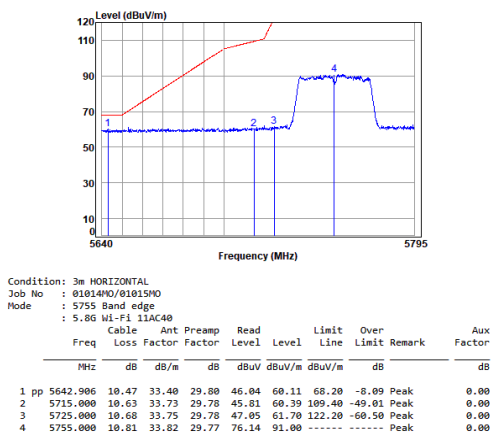


Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5825 Band edge
: 5.8G Wi-Fi 11AC20

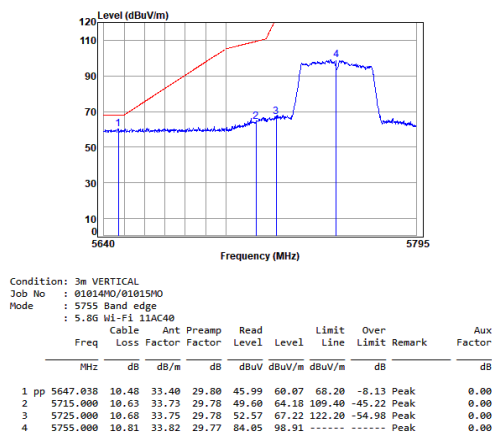
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MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 5825.000	10.99	34.10	29.75	81.93	97.27	-----	-----	Peak	0.00
2 5850.000	10.95	34.20	29.74	44.92	60.33	122.20	-61.87	Peak	0.00
3 5860.000	10.94	34.22	29.74	45.69	61.11	109.40	-48.29	Peak	0.00
4 pp 5931.352	10.86	34.24	29.72	46.73	62.11	68.20	-6.09	Peak	0.00



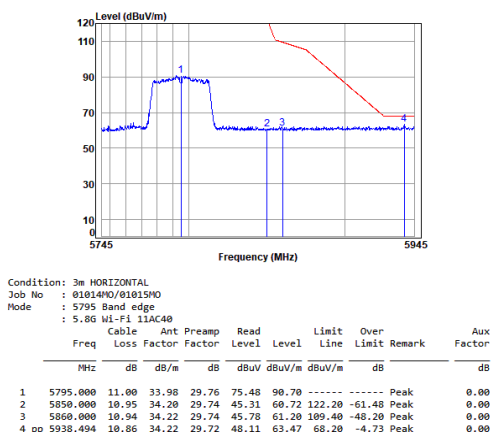
11ac_VHT(40M)_TX_CH_151_Horizontal



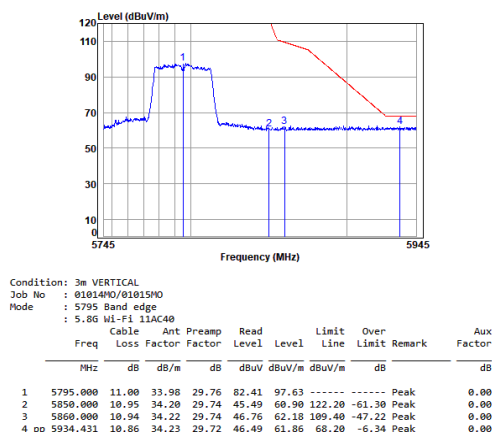
11ac_VHT(40M)_TX_CH_151_Vertical



11ac_VHT(40M)_TX_CH_159_Horizontal



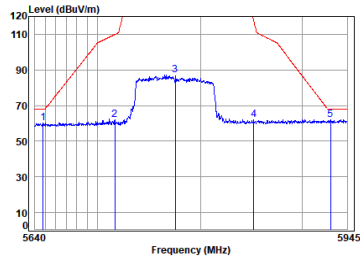
11ac_VHT(40M)_TX_CH_159_Vertical



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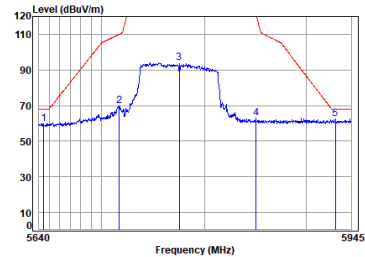
11ac_VHT(80M)_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL
Job No : 01014M0/01015M0
Mode : 5775 Band edge
: 5.86 Wi-Fi 11AC80

	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	5647.729	10.48	33.40	29.80	46.09	60.17	-8.03 Peak	0.00
2	5716.557	10.64	33.73	29.78	47.68	62.27	109.84 -47.57 Peak	0.00
3	5775.000	10.91	33.90	29.76	72.00	87.05	----- Peak	0.00
4	5852.116	10.95	34.20	29.74	46.62	62.03	117.37 -55.34 Peak	0.00
5	5928.429	10.87	34.24	29.72	46.61	62.00	68.20 -6.20 Peak	0.00

11ac_VHT(80M)_TX_CH_155_Vertical



Condition: 3m VERTICAL
Job No : 01014M0/01015M0
Mode : 5775 Band edge
: 5.86 Wi-Fi 11AC80

	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	5644.754	10.48	33.40	29.80	45.73	59.81	68.20 -8.39 Peak	0.00
2	5716.058	10.64	33.73	29.78	55.26	69.85	109.92 -40.07 Peak	0.00
3	5775.000	10.91	33.90	29.76	78.89	93.94	----- Peak	0.00
4	5850.267	10.95	34.20	29.74	47.63	63.04	121.59 -58.55 Peak	0.00
5	5929.366	10.87	34.24	29.72	46.95	62.34	68.20 -5.86 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

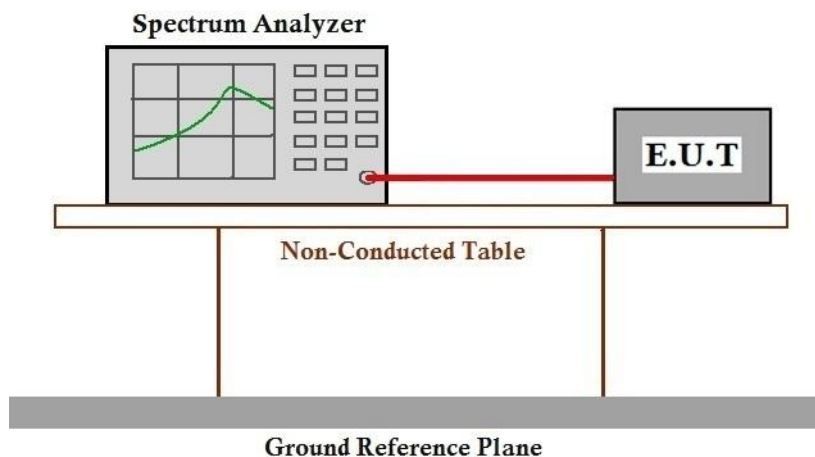
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.3 °C Humidity: 64.7 % 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:

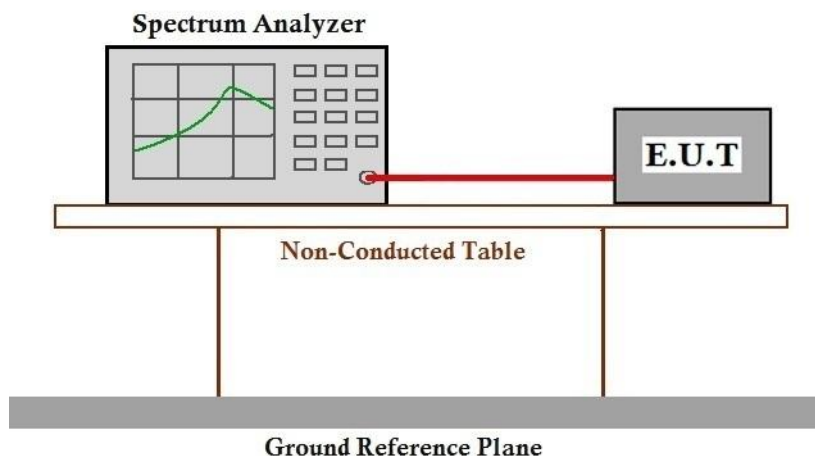
Temperature: 24.3 °C Humidity: 64.7 % RH Atmospheric Pressure: 1010 mbar

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: 24.3 °C

Humidity: 64.7 % RH

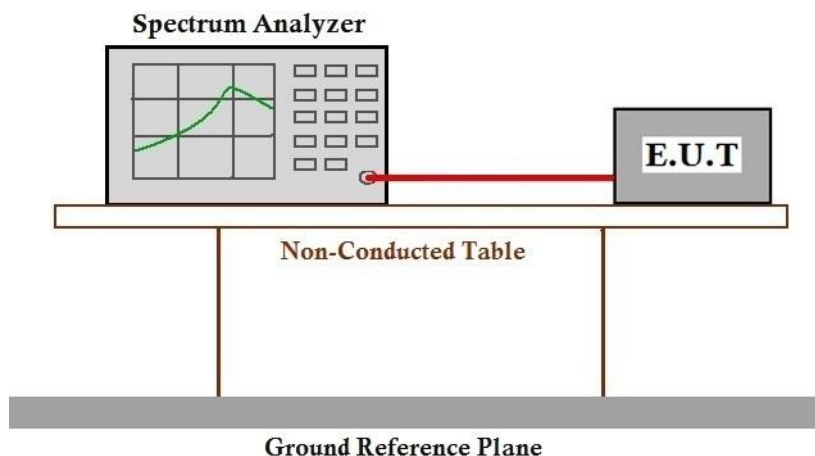
Atmospheric Pressure: 1010 mbar

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



7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2603001014MO

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2603001014MO



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	2.065	2.101	98.29	0.08	0.00
		5200	2.065	2.101	98.29	0.08	0.00
		5240	2.066	2.101	98.33	0.07	0.00
		5260	2.066	2.101	98.33	0.07	0.00
		5300	2.066	2.101	98.33	0.07	0.03
		5320	2.066	2.101	98.33	0.07	0.03
		5500	2.065	2.101	98.29	0.08	0.00
		5580	2.066	2.101	98.33	0.07	0.00
		5700	2.066	2.101	98.33	0.07	0.03
		5745	2.066	2.101	98.33	0.07	0.00
		5785	2.066	2.101	98.33	0.07	0.00
		5825	2.065	2.101	98.29	0.08	0.00
802.11n (HT20)	SISO	5180	1.926	1.962	98.17	0.08	0.03
		5200	1.926	1.961	98.22	0.08	0.03
		5240	1.926	1.961	98.22	0.08	0.03
		5260	1.926	1.962	98.17	0.08	0.03
		5300	1.926	1.961	98.22	0.08	0.03
		5320	1.926	1.962	98.17	0.08	0.03
		5500	1.926	1.961	98.22	0.08	0.03
		5580	1.926	1.961	98.22	0.08	0.03
		5700	1.926	1.961	98.22	0.08	0.03
		5745	1.926	1.961	98.22	0.08	0.03
		5785	1.926	1.961	98.22	0.08	0.03
		5825	1.926	1.961	98.22	0.08	0.03
802.11n (HT40)	SISO	5190	0.949	0.984	96.44	0.16	0.00
		5230	0.950	0.985	96.45	0.16	0.03
		5270	0.950	0.984	96.54	0.15	0.03
		5310	0.949	0.984	96.44	0.16	0.00



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		5510	0.949	0.984	96.44	0.16	0.00
		5550	0.949	0.984	96.44	0.16	0.03
		5670	0.949	0.984	96.44	0.16	0.00
		5755	0.949	0.984	96.44	0.16	0.00
		5795	0.949	0.984	96.44	0.16	0.00
802.11ac (VHT20)	SISO	5180	1.934	1.969	98.22	0.08	0.03
		5200	1.934	1.969	98.22	0.08	0.03
		5240	1.934	1.970	98.17	0.08	0.03
		5260	1.934	1.969	98.22	0.08	0.03
		5300	1.934	1.969	98.22	0.08	0.03
		5320	1.934	1.969	98.22	0.08	0.03
		5500	1.934	1.969	98.22	0.08	0.03
		5580	1.934	1.970	98.17	0.08	0.03
		5700	1.934	1.970	98.17	0.08	0.03
		5745	1.934	1.970	98.17	0.08	0.03
		5785	1.934	1.969	98.22	0.08	0.03
		5825	1.934	1.969	98.22	0.08	0.03
802.11ac (VHT40)	SISO	5190	0.954	0.988	96.56	0.15	0.00
		5230	0.954	0.988	96.56	0.15	0.00
		5270	0.953	0.988	96.46	0.16	0.03
		5310	0.953	0.988	96.46	0.16	0.00
		5510	0.953	0.988	96.46	0.16	0.00
		5550	0.954	0.988	96.56	0.15	0.00
		5670	0.953	0.988	96.46	0.16	0.03
		5755	0.954	0.988	96.56	0.15	0.03
		5795	0.954	0.988	96.56	0.15	0.03
802.11ac (VHT80)	SISO	5210	0.465	0.500	93.00	0.32	0.00
		5290	0.465	0.500	93.00	0.32	0.03
		5530	0.465	0.500	93.00	0.32	0.03
		5610	0.465	0.500	93.00	0.32	0.03
		5775	0.465	0.500	93.00	0.32	0.03



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Shenzhen Branch (SZEMC) CSTC Laboratory

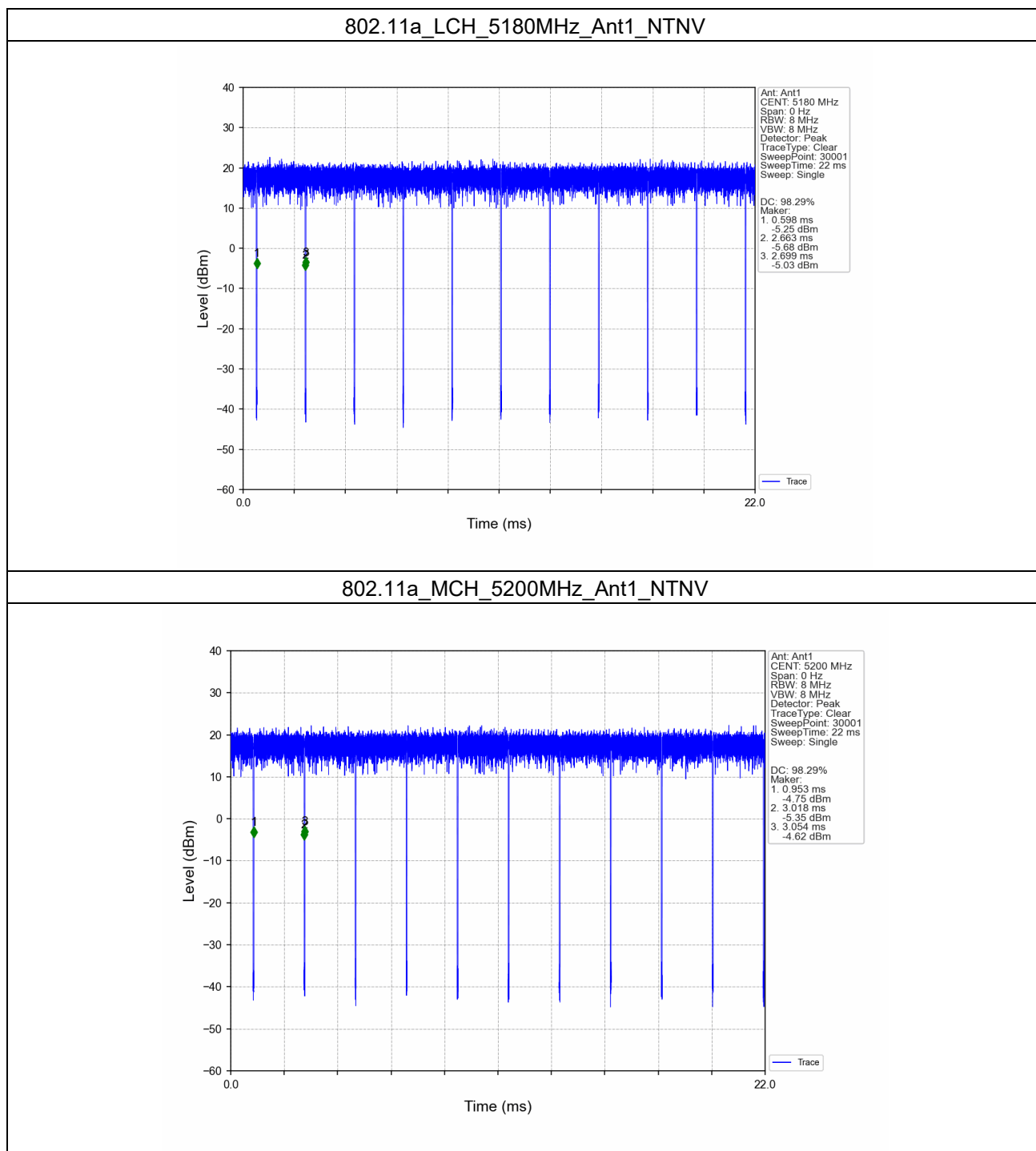
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1.2 Test Graph

1.2.1 Ant1



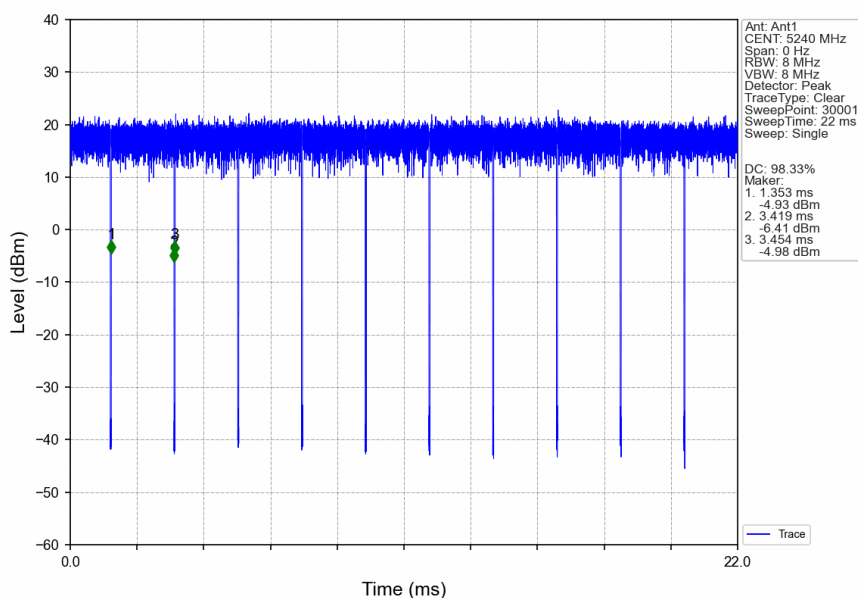
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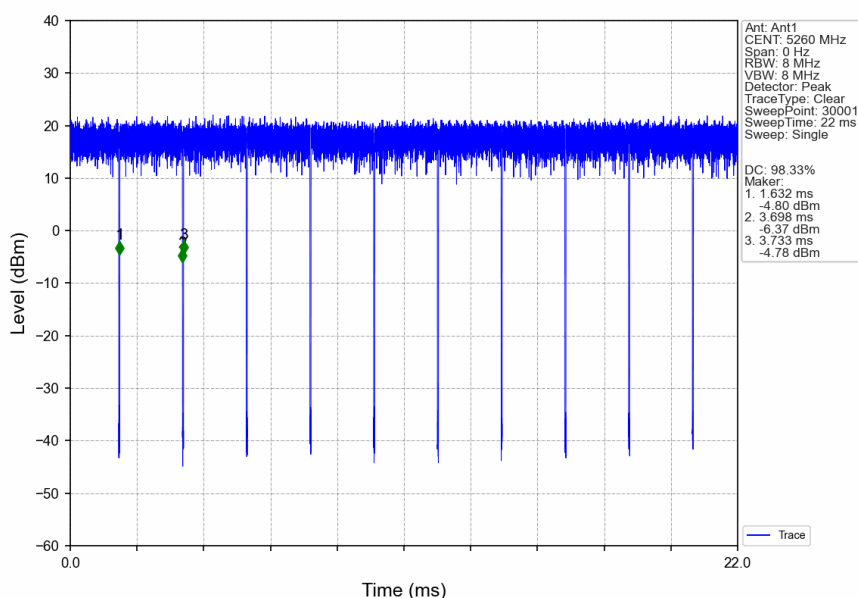
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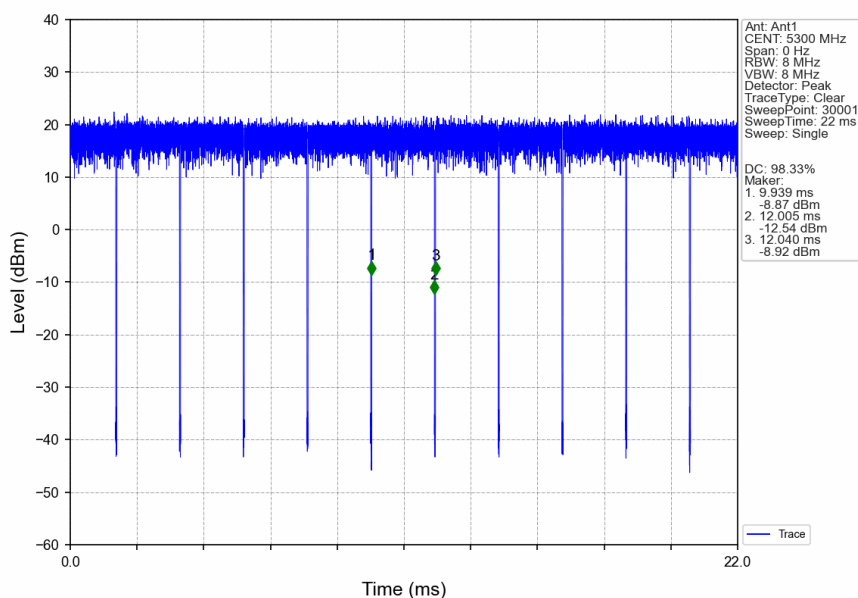
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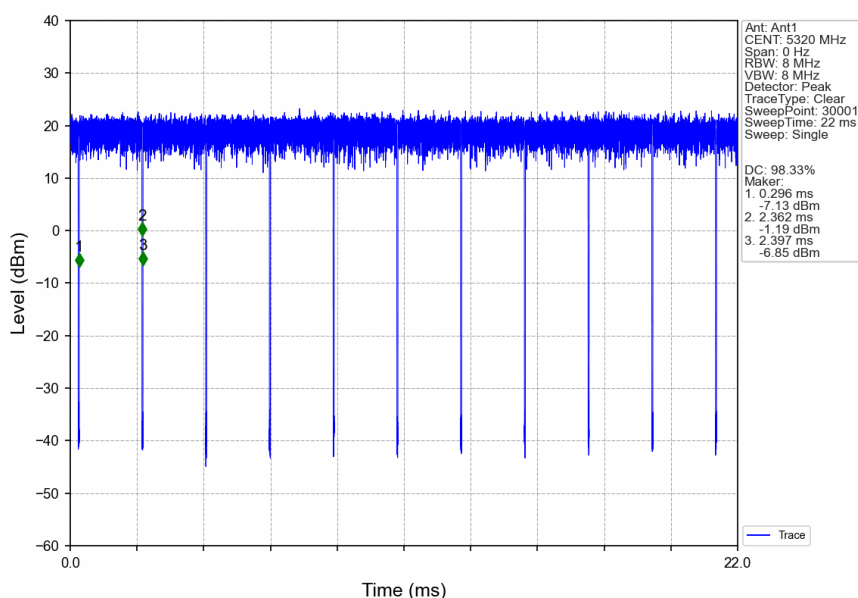
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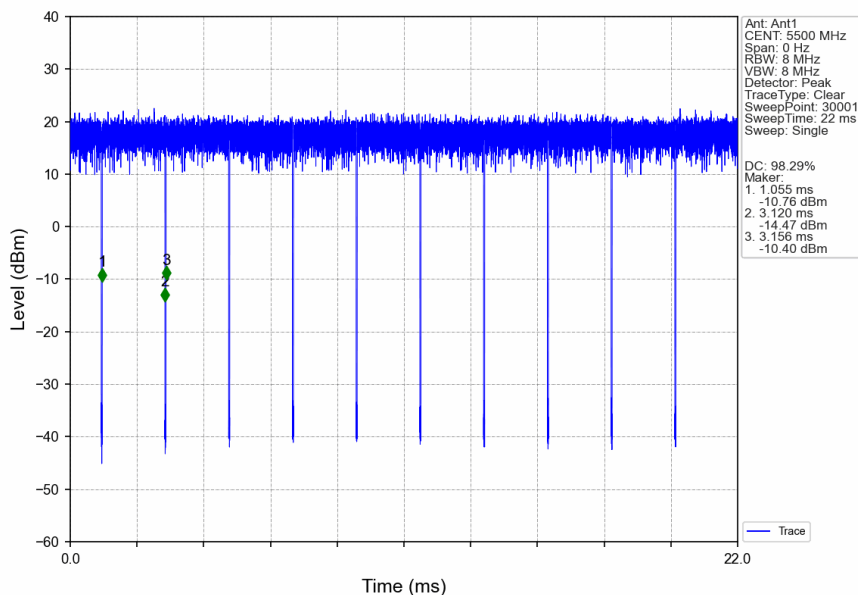
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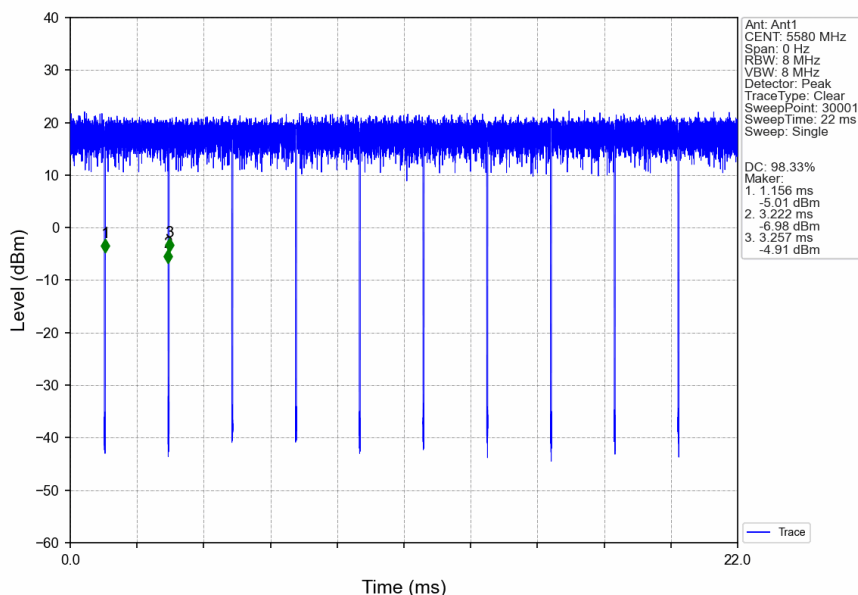
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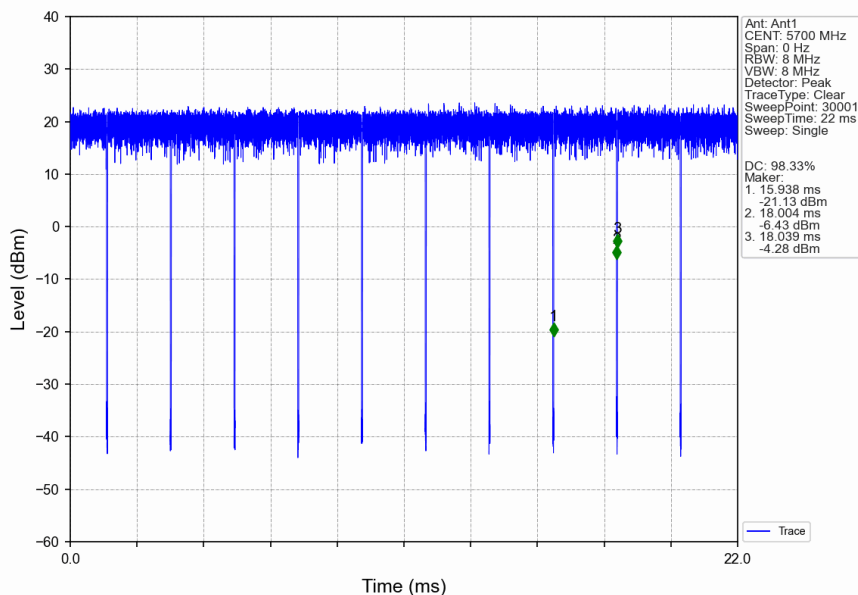
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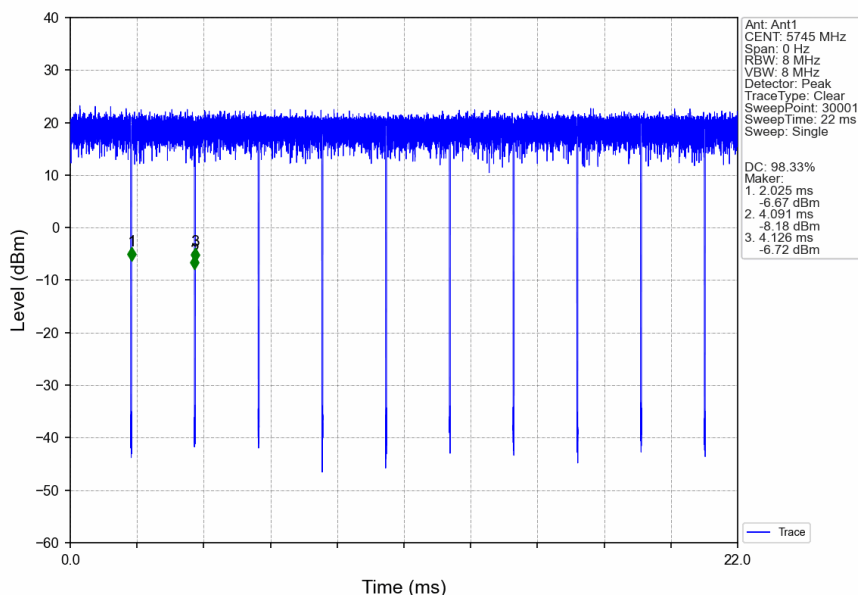
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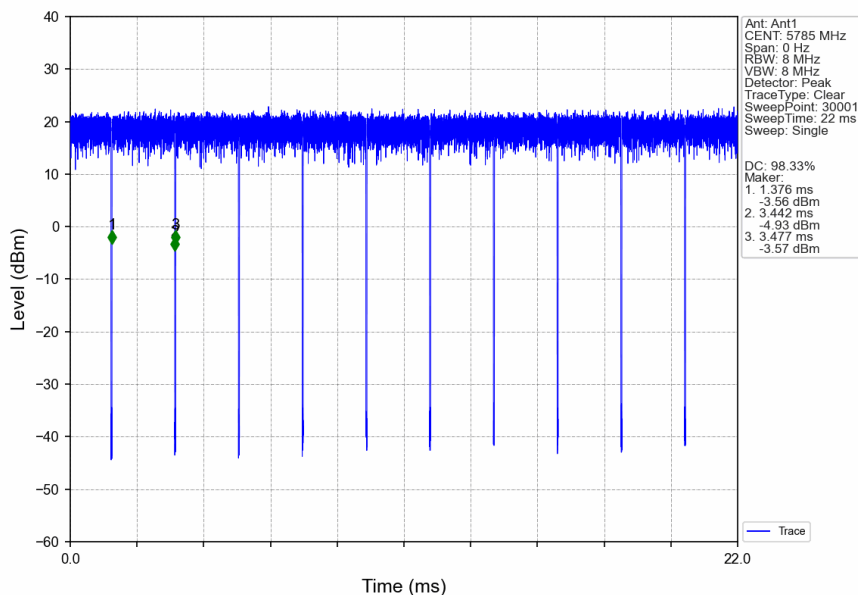
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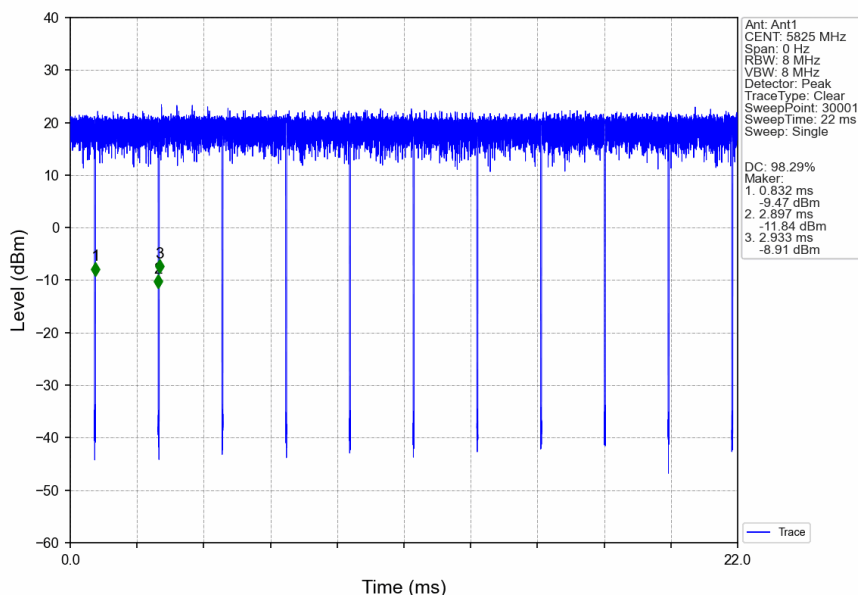
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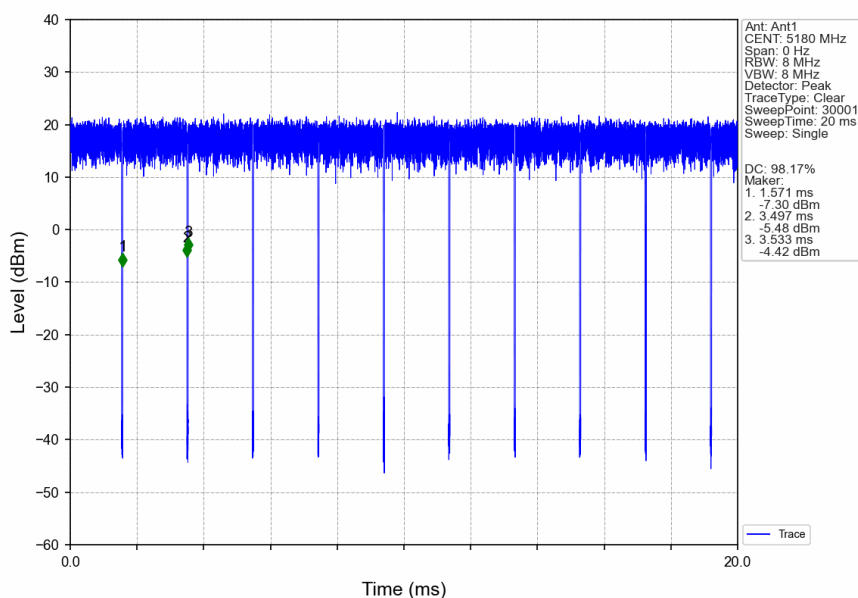
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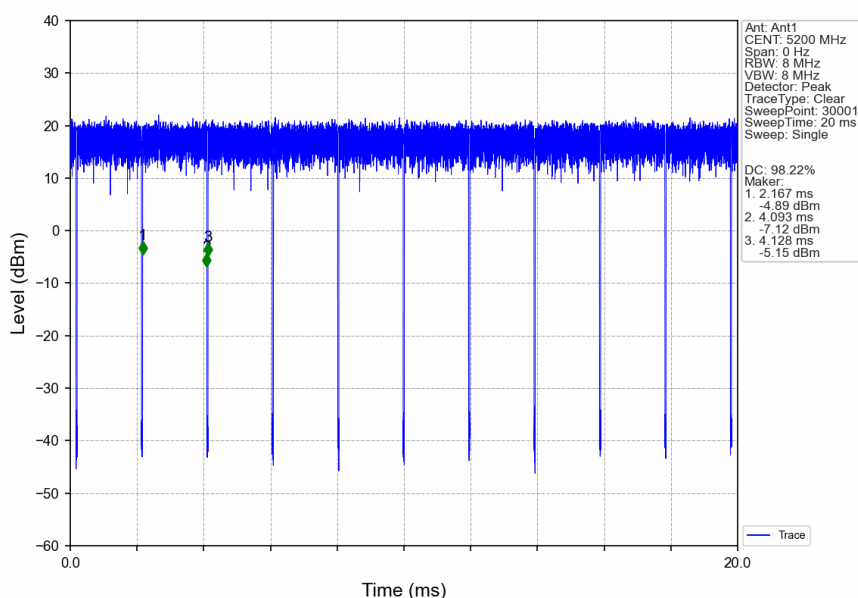
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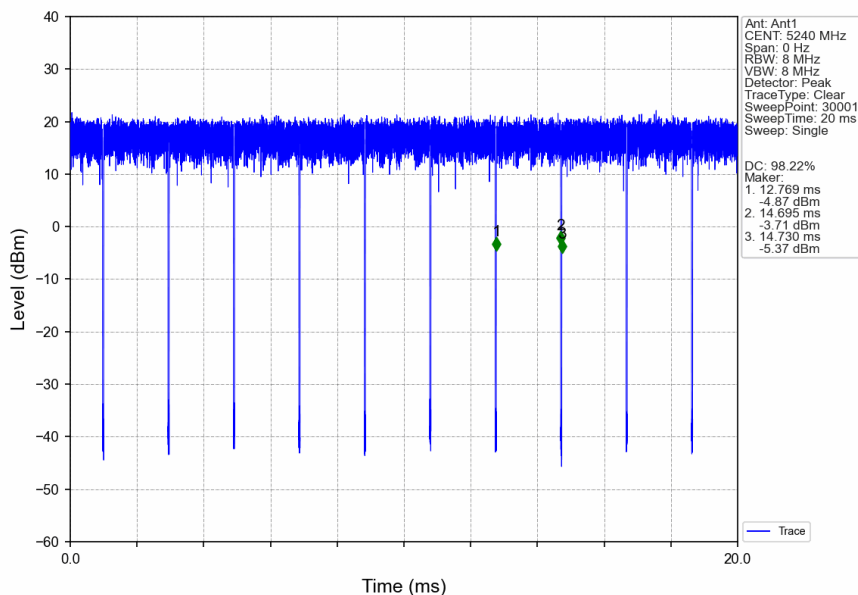
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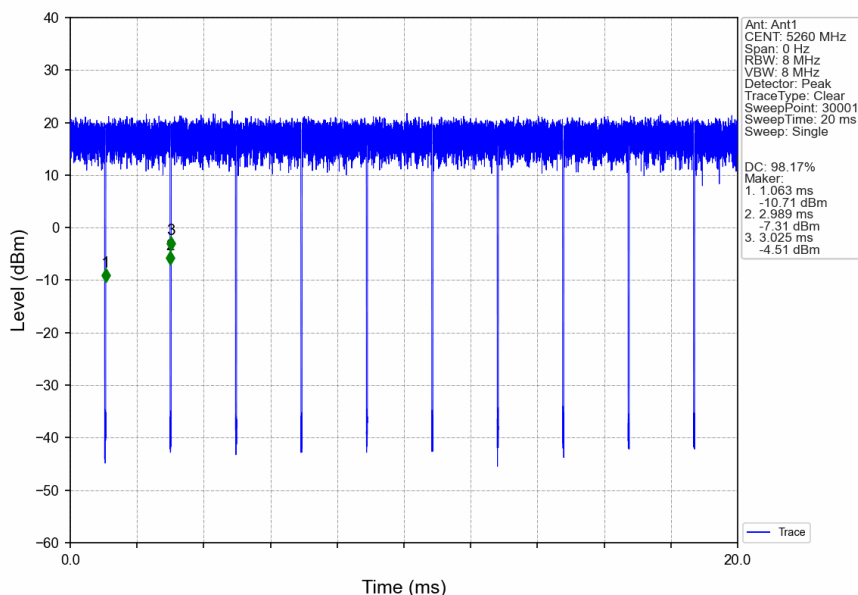
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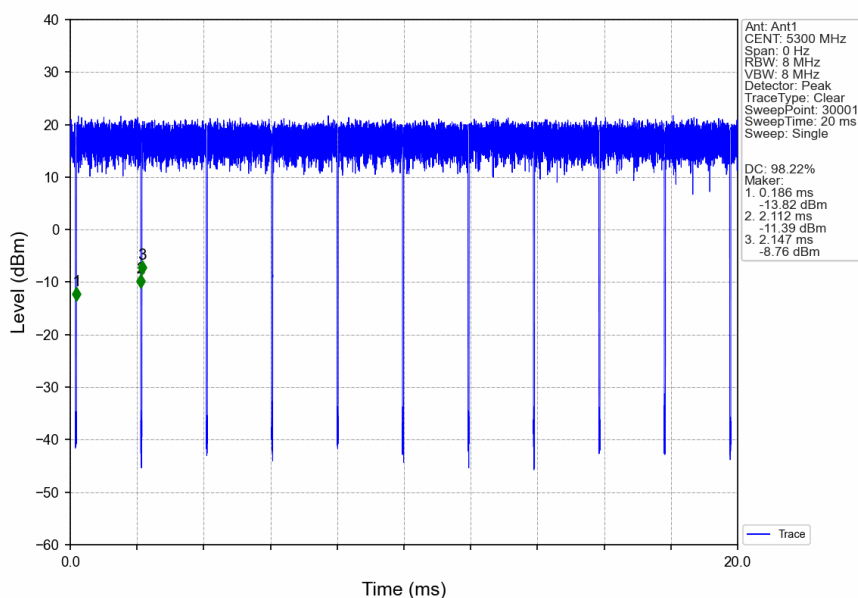
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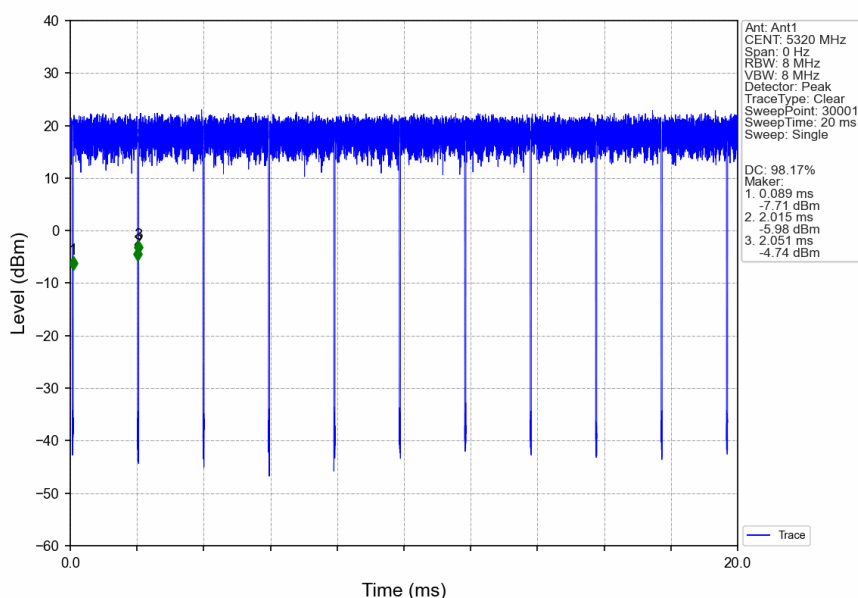
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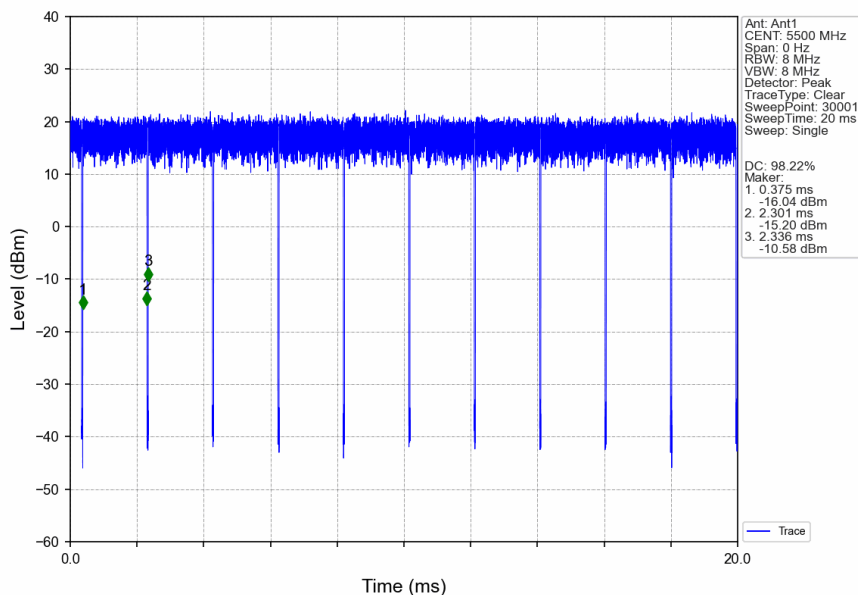
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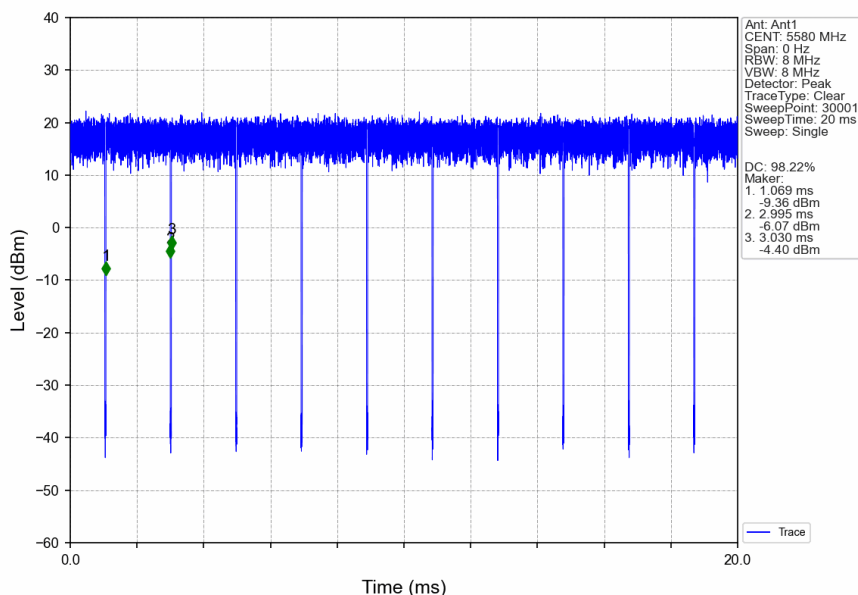
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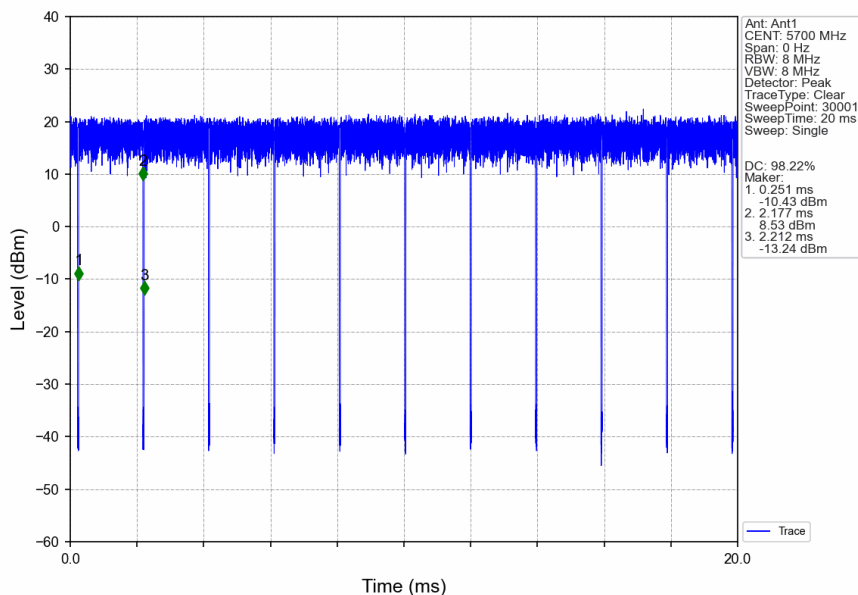
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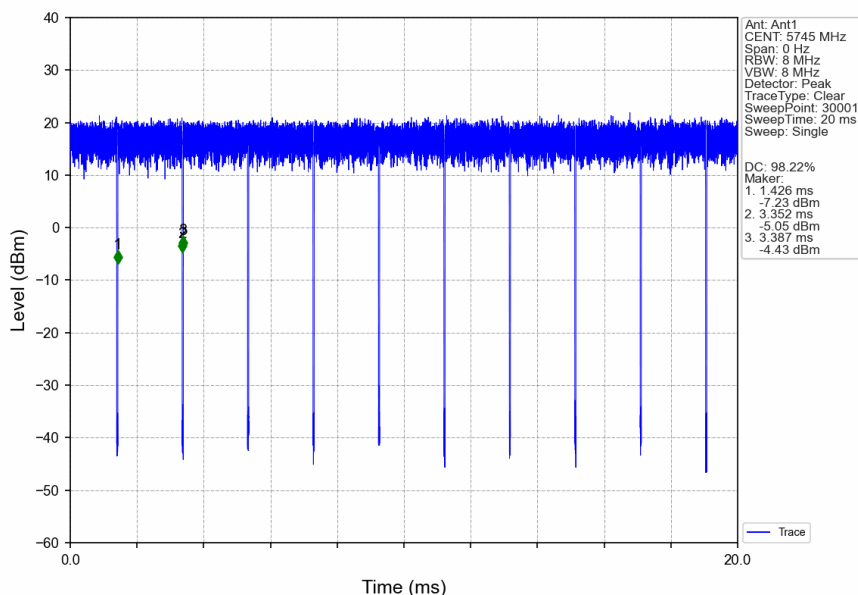
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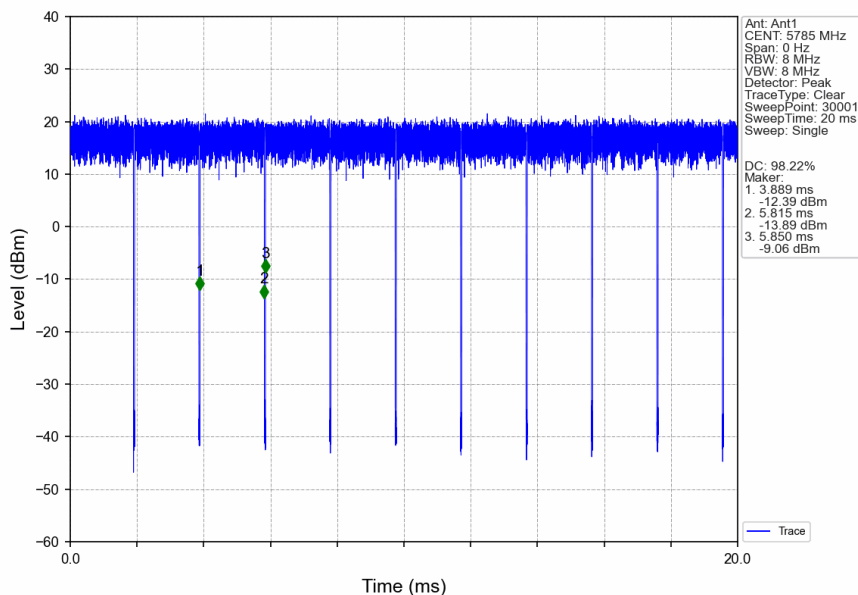
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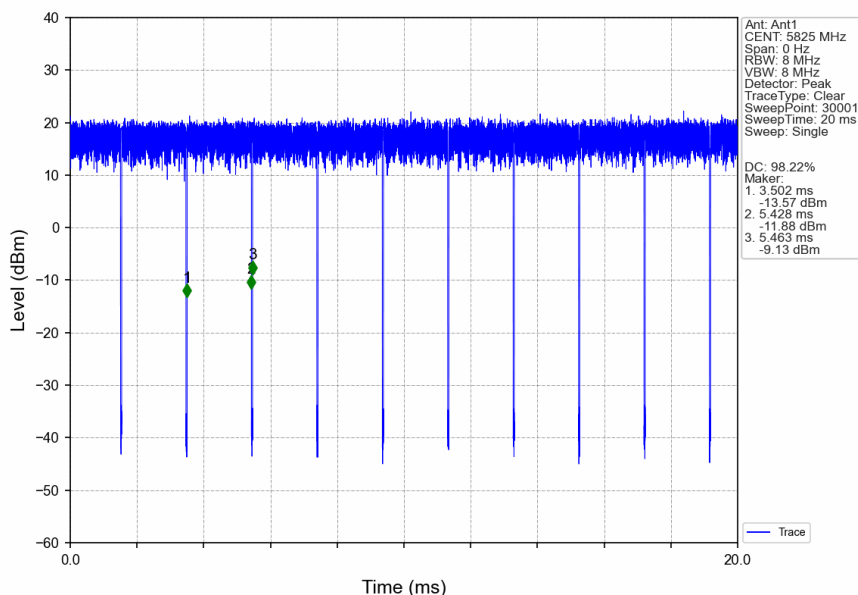
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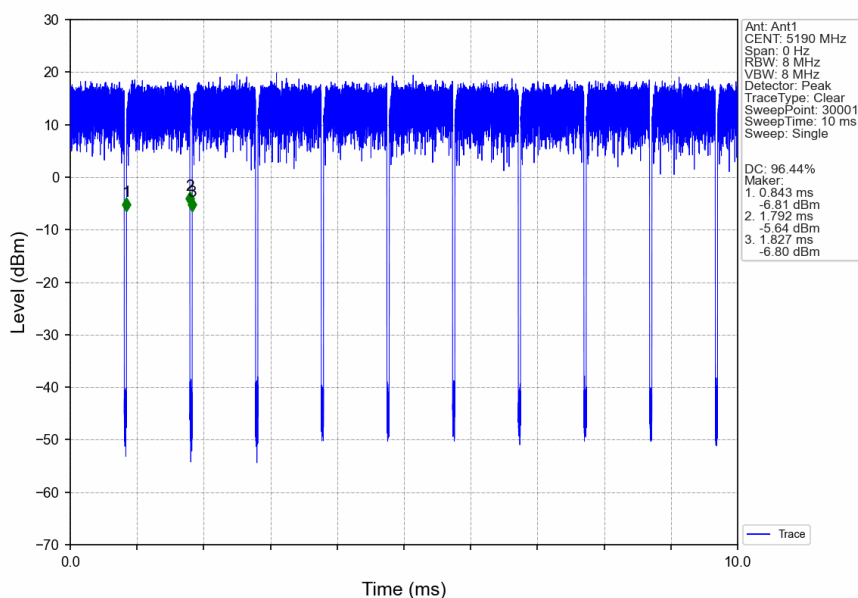
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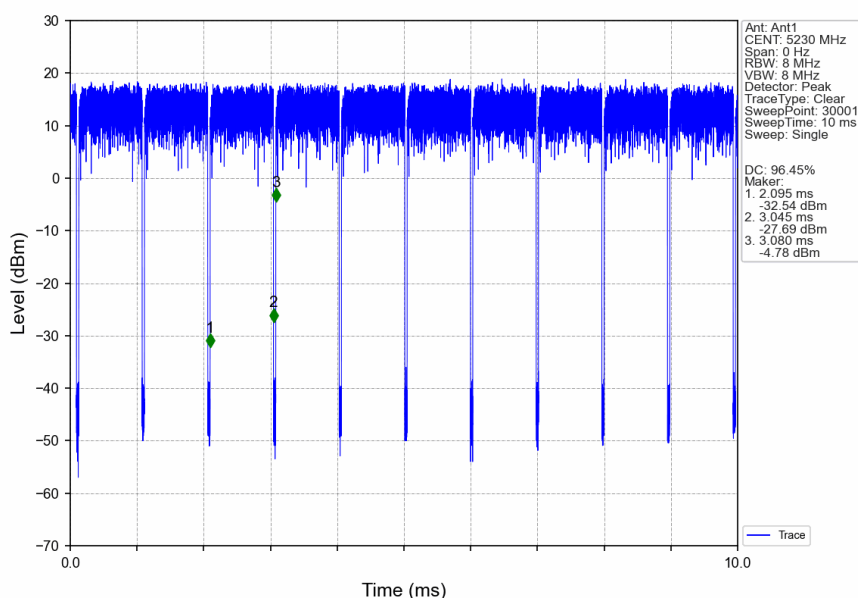
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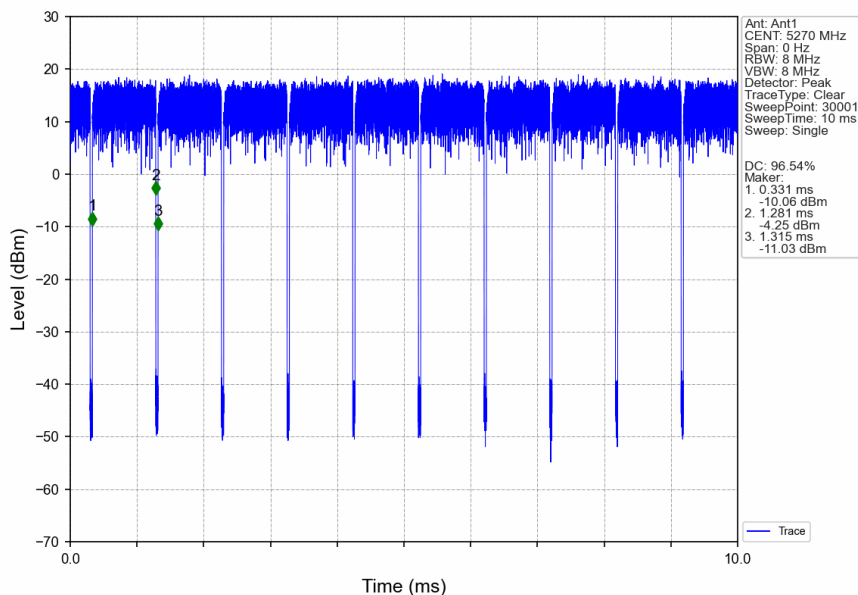
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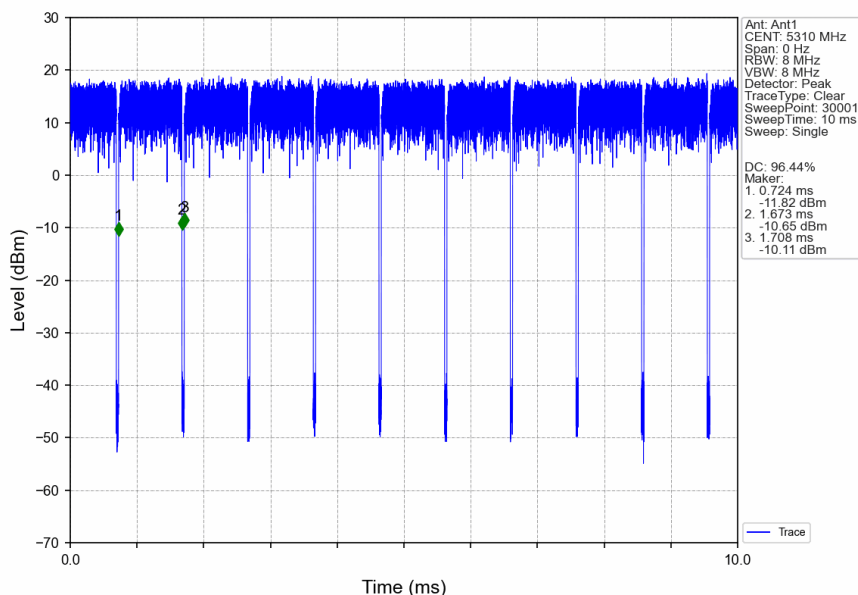
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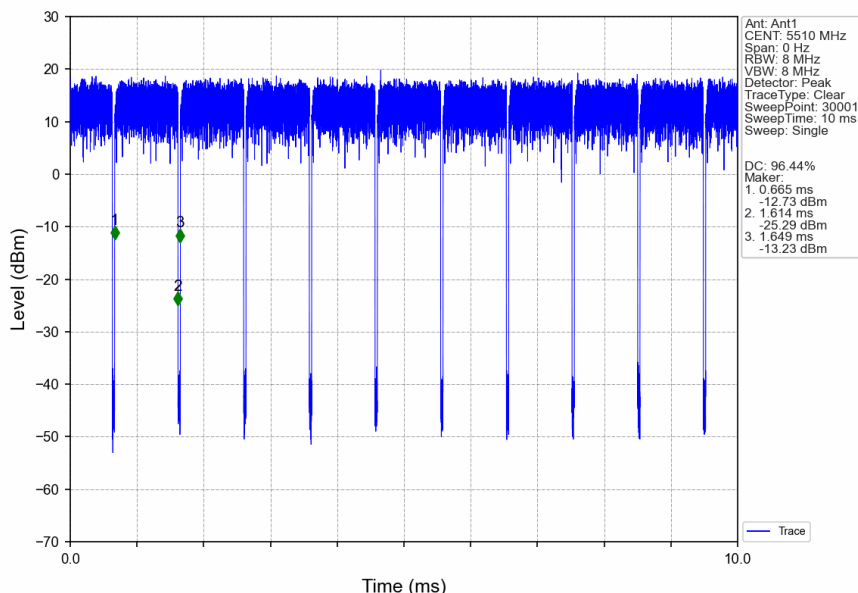
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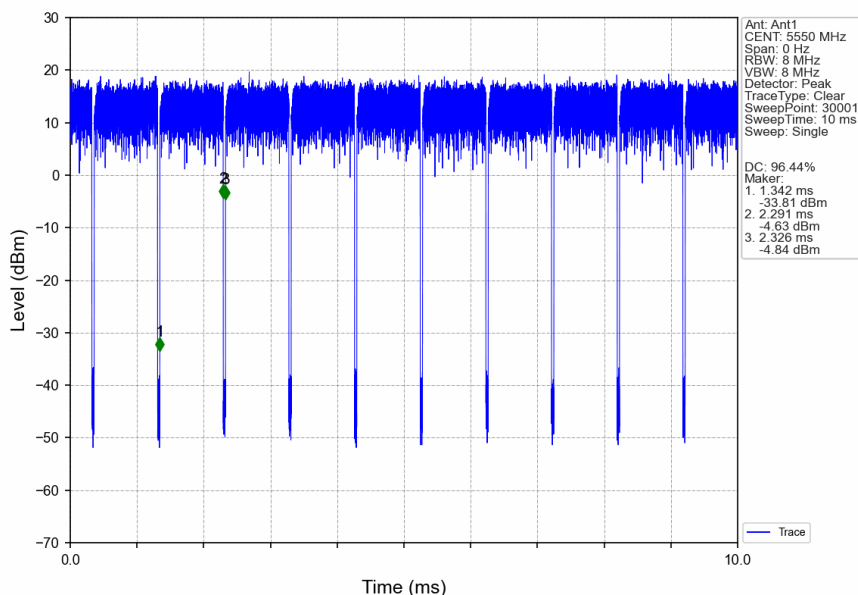
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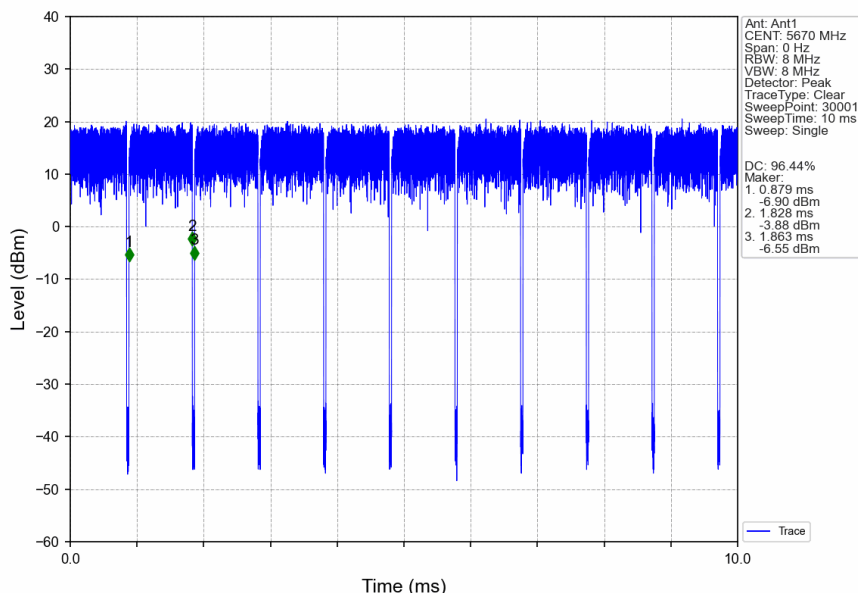
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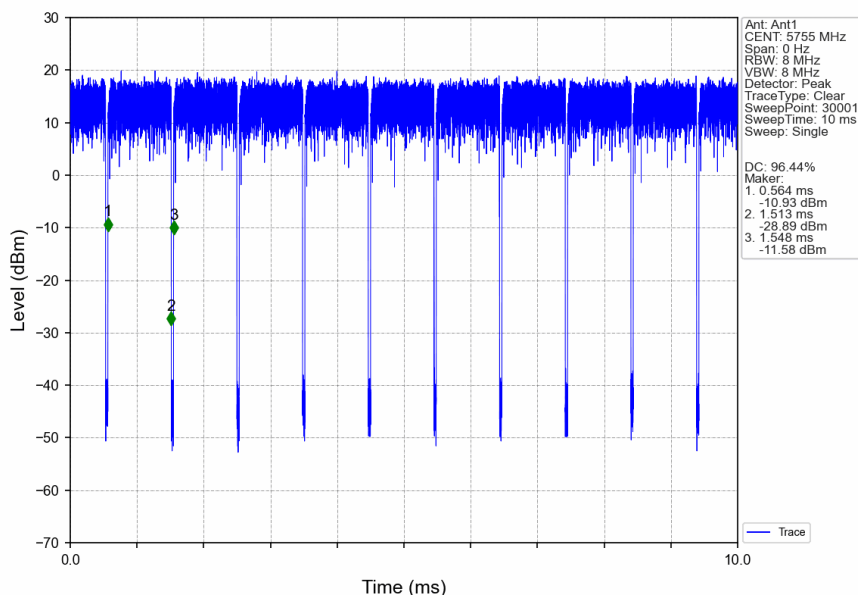
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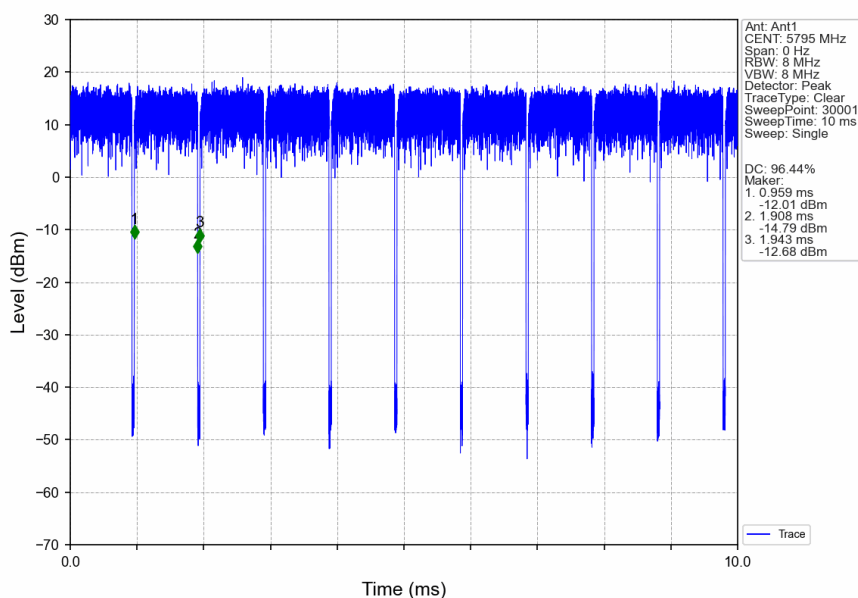
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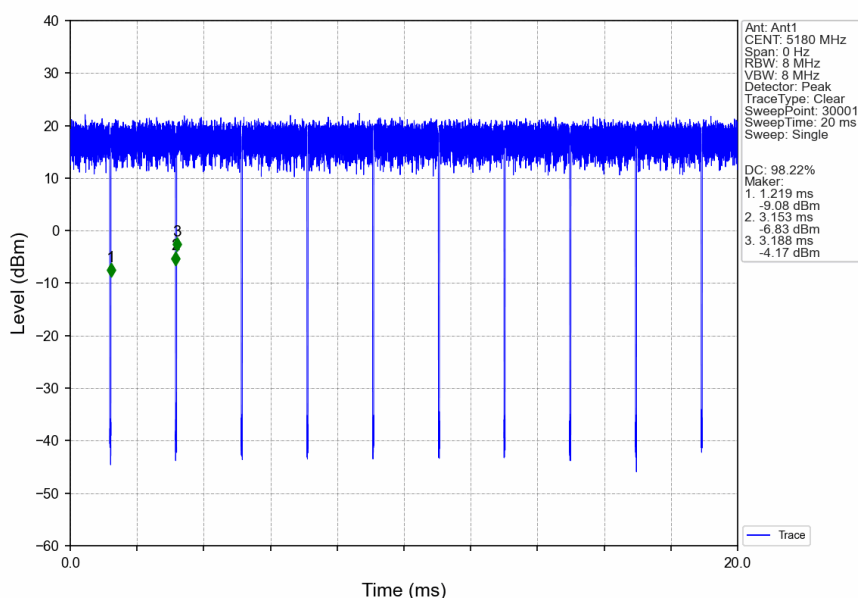
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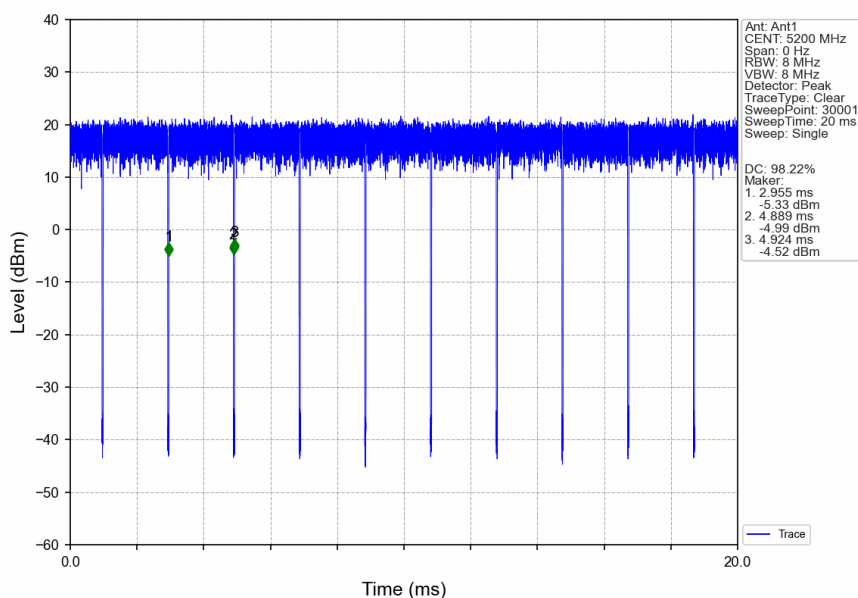
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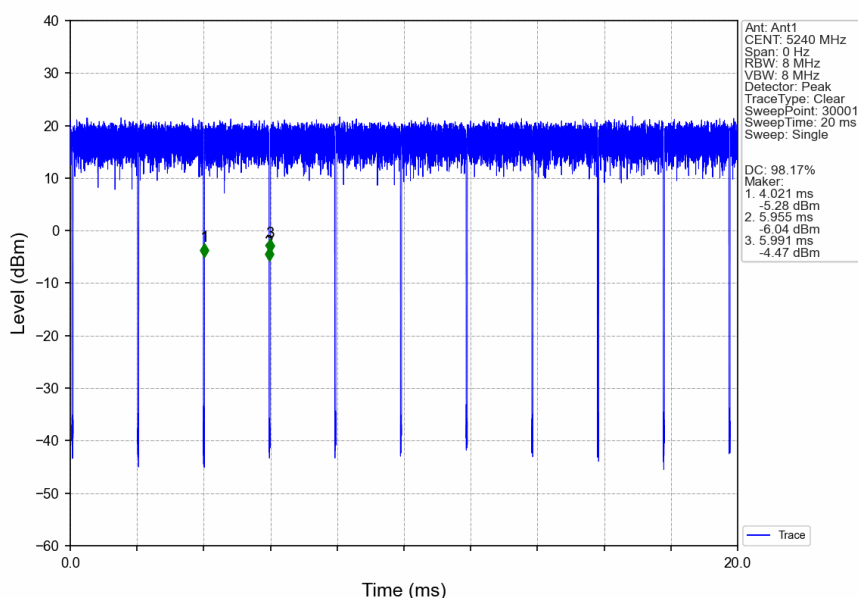
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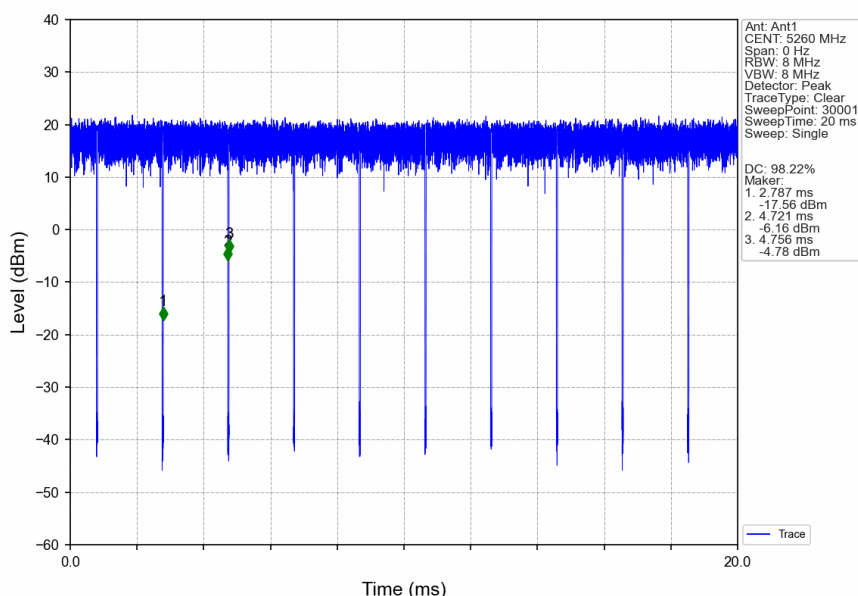
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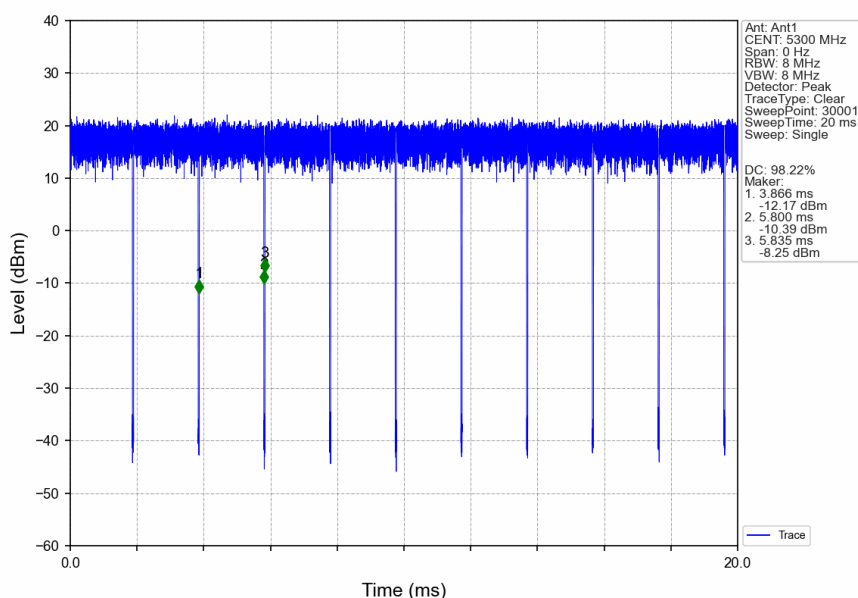
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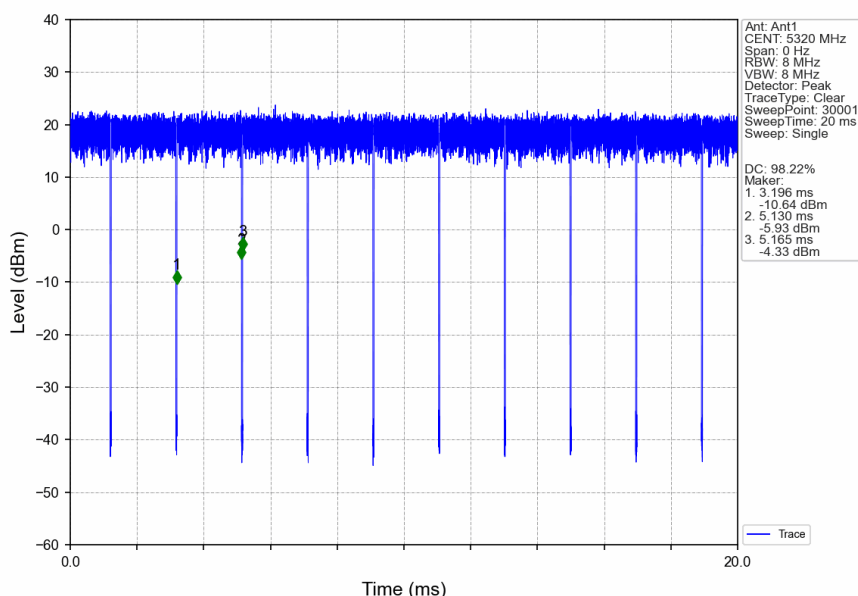
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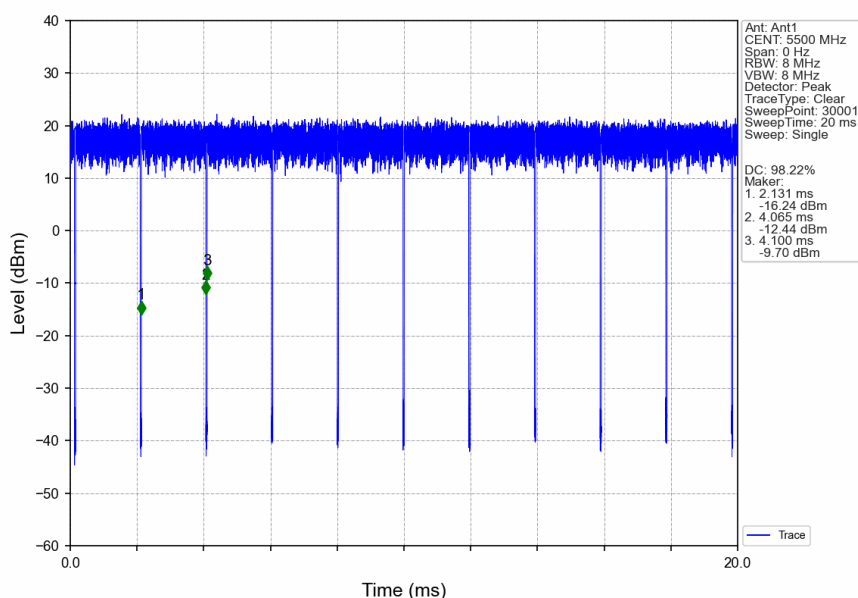
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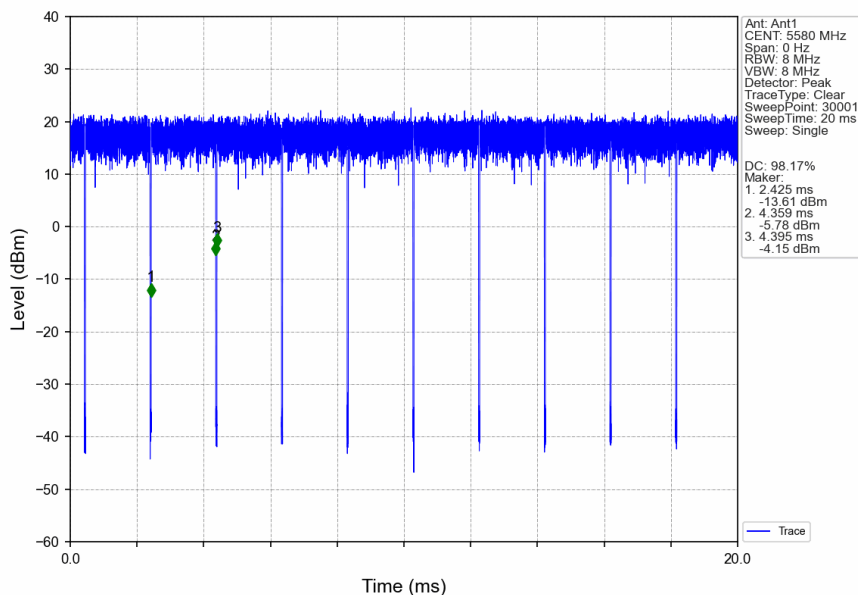
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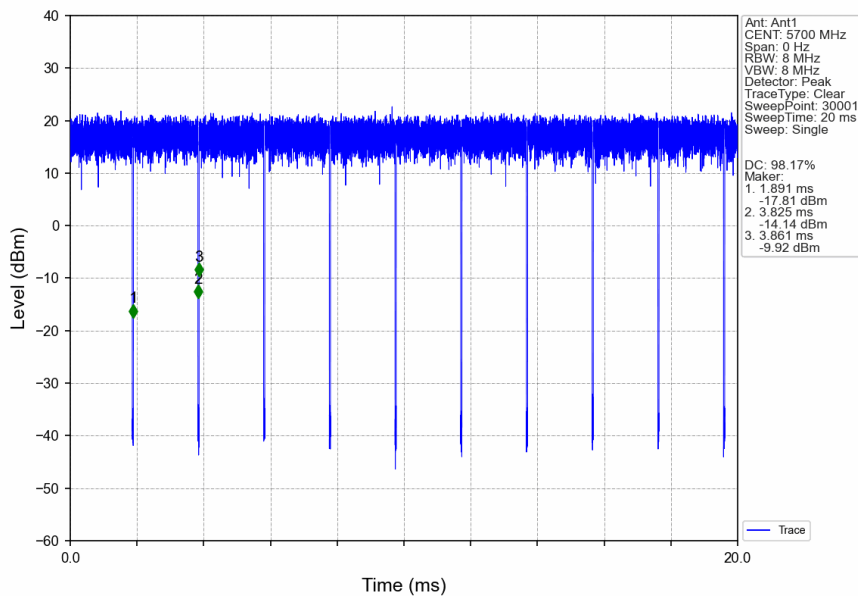
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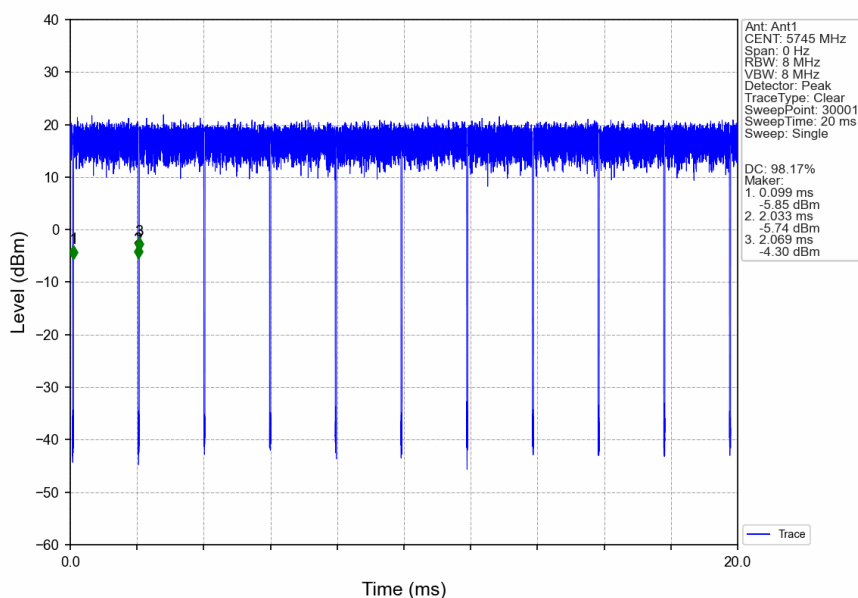
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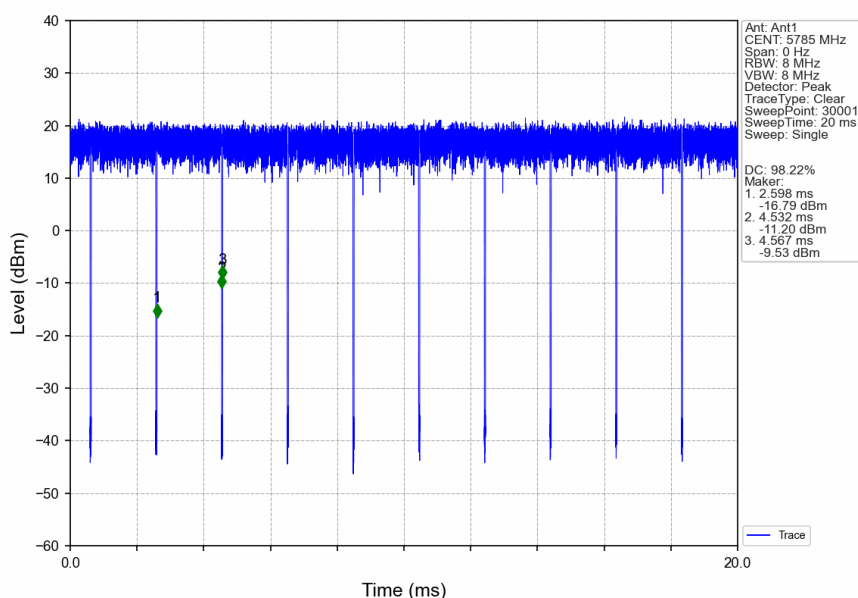
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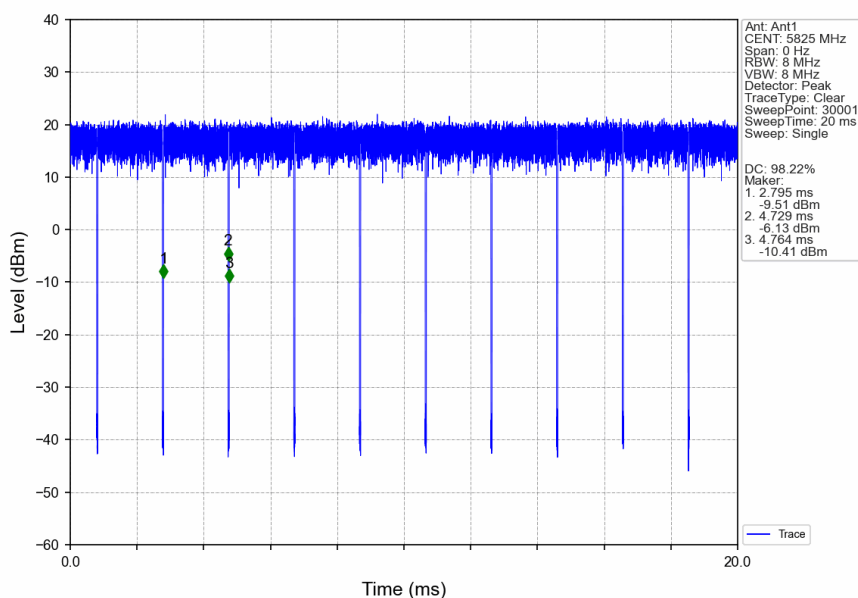
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

