

TEST REPORT

Reference No. : WTH26D01014950W003
FCC ID..... : 2BUNY-26L55V60
Applicant : Shenzhen Mingcai New Century Technology Co., Ltd.
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Manufacturer : Shanghai Goodview Electronic Technology Co., Ltd.
Address : 458 Jin Wan Road, Pudong District, Shanghai, China
Factory : Mingcai Wisdom (Zhongshan) Technology Co., Ltd.
Address : 1-6 floor, 1st building to 1-10 floor, 2nd building, No.136, Tanlong North Road, Tanzhou Town, Zhongshan City, Guangdong. China
Product Name : Cloud Digital Signage, Freestanding Digital Posters, LCD DIGITAL DISPLAY, Smart Digital Signage, Commercial Digital Signage, Digital Signage Display, Ultra High Brightness Window Displays
Model No. : L55VEC, L55VEQ, L55H10, L55H10C, L55*****, L*****, D55*****, TC55*****, M55*****, M*****, TC*****, D*****, PF*****, V***_***_***, PF***_***_***, OM55*****, OL55*****, OM*****, OL*****, N55*****, N*****, PF***** (*It can be represented by 0-9, A-Z or spaces, used to distinguish different sales regions and channels, without affecting the safety and electromagnetic compatibility of the product.)
Standards..... : FCC 47CFR Part 15 Section 15.407
Date of Receipt Sample : 2026-02-02
Date of Test..... : 2026-02-04 to 2026-03-10
Date of Issue : 2026-04-01
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTH26D01014950W003	2026-02-02	2026-02-04 to 2026-03-10	2026-04-01	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Cloud Digital Signage, Freestanding Digital Posters, LCD DIGITAL DISPLAY, Smart Digital Signage, Commercial Digital Signage, Digital Signage Display, Ultra High Brightness Window Displays
Model(s):	L55VEC, L55VEQ, L55H10, L55H10C, L55*****, L*****, D55*****, TC55*****, M55*****, M*****, TC*****, D*****, PF*****, V***_***_***, PF***_***_***, OM55*****, OL55*****, OM*****, OL*****, N55*****, N*****, PF***** (*It can be represented by 0-9, A-Z or spaces, used to distinguish different sales regions and channels, without affecting the safety and electromagnetic compatibility of the product.)
Model Description:	Model L55VEC was tested in this report.
Test Sample No.:	1-1/1
Wi-Fi Specification:	5G-802.11a/n(HT20/40)/ac(VHT20/40/80)
Hardware Version:	TP.T982.270W
Software Version:	20260129_181616

4.2 Details of E.U.T.

Operation Frequency:	802.11a/n(HT20)/ac(VHT20): U-NII-1: 5180-5240MHz, U-NII-2A: 5260-5320MHz(DFS), U-NII-2C: 5500-5700MHz(DFS), U-NII-3: 5745-5825MHz 802.11n(HT40)/ac(VHT40): U-NII-1: 5190-5230MHz, U-NII-2A: 5270-5310MHz(DFS), U-NII-2C: 5510-5670MHz(DFS), U-NII-3: 5755-5795MHz 802.11ac(VHT80): U-NII-1: 5210MHz, U-NII-2A: 5290MHz(DFS), U-NII-2C: 5530-5610MHz(DFS), U-NII-3: 5775MHz
Max. RF output power:	U-NII-1: 15.87dBm U-NII-2A: 15.76dBm U-NII-2C: 15.92dBm U-NII-3: 16.03dBm
Type of Modulation:	OFDM
Antenna installation:	Steel sheet antenna
Antenna Gain:	1.70dBi
Note:	#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.
Ratings:	AC100-240V, 50/60Hz

4.3 Channel List

U-NII-1 (5.15-5.25GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	38	5190
40	5200	42	5210
44	5220	46	5230
48	5240		

U-NII-2A (5.25-5.35GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	54	5270
56	5280	58	5290
60	5300	62	5310
64	5320		

U-NII-2C (5.47-5.725GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	102	5510
104	5520	106	5530
108	5540	110	5550
112	5560	116	5580
118	5590	120	5600
122	5610	124	5620
126	5630	128	5640
132	5660	134	5670
136	5680	140	5700

U-NII-3 (5.725-5.85GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	151	5755
153	5765	155	5775
157	5785	159	5795
161	5805	165	5825

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20):

channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	40	5200
48	5240		

channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	56	5280
64	5320		

channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	120	5600
140	5700		

channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	157	5785
165	5825		

For 802.11n(HT40)/ac(VHT40):

channel	Frequency(MHz)	channel	Frequency(MHz)
38	5190	46	5230

channel	Frequency(MHz)	channel	Frequency(MHz)
54	5270	62	5310

channel	Frequency(MHz)	channel	Frequency(MHz)
102	5510	110	5550
134	5670		

channel	Frequency(MHz)	channel	Frequency(MHz)
151	5755	159	5795

For 802.11ac(VHT80):

channel	Frequency(MHz)	channel	Frequency(MHz)
42	5210		

channel	Frequency(MHz)	channel	Frequency(MHz)
58	5290		

channel	Frequency(MHz)	channel	Frequency(MHz)
106	5530	122	5610

channel	Frequency(MHz)	channel	Frequency(MHz)
155	5775		

4.4 Test Mode Description

During testing, Channel and Power Controlling Software provided by the applicant was used to control the operating channel as well as the maximum output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Transmitting duty cycle is no less 98%.

The software is TermAssist and SecureCRT tool Use together.

Test Items	Mode	Data Rate	TX/RX
Radiated Emissions	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40/80)	MCS0	TX
Duty Cycle	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40/80)	MCS0	TX
Band Edge	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40/80)	MCS0	TX
6dB Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40/80)	MCS0	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40/80)	MCS0	TX
Maximum Conducted Output Power	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40/80)	MCS0	TX
Power Spectral Density	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40/80)	MCS0	TX
Frequency Stability	Un-modulation	/	TX

4.5 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Equipment Used during Test

5.1 Equipments List

Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	101155	2025-07-04	2026-07-03
2	LISN	SCHWARZBECK	NSLK 8128	8128-259	2025-06-03	2026-06-02
3	Pulse Limiter	CYBERTEK	EM5010	261115-001-0024	2025-07-04	2026-07-03
4	Cable	Laplace	RF300	-	2025-07-04	2026-07-03
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP30	100091	2025-04-19	2026-04-18
2	Amplifier	Agilent	8447D	2944A10178	2025-07-04	2026-07-03
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2025-07-20	2026-07-19
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2025-04-19	2026-04-18
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1314	2025-08-09	2026-08-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2025-07-04	2026-07-03
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2025-07-04	2026-07-03
8	Coaxial Cable (above 1GHz)	ZT26-NJ-NJ-8M/FA	1GHz-18GHz	NA	2025-04-19	2026-04-18
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2025-07-05	2026-07-04
3	Active Loop Antenna	Com-Power Corp.	AL-130R	10160007	2025-04-21	2026-04-20
4	Amplifier	ANRITSU	MH648A	M43381	2025-04-19	2026-04-18
5	Cable	HUBER+SUHNER	CBL2	525178	2025-04-19	2026-04-18
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Spectrum Analyzer	R&S	FSP40	100501	2025-07-04	2026-07-03

2.	EXA Signal Analyzer	Malaysia Keysight	N9010A	MY50520207	2025-07-04	2026-07-03
3	Power Sensor	TST	TSCB562R2	-	2025-12-05	2026-12-04

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)
RF Conducted Testing	TST-301	V2.0

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

6 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a)	PASS
Radiated Emissions	15.407(a) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	PASS
6dB Bandwidth	15.407(a)	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Restricted bands around fundamental frequency	15.407(a)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

7 Duty cycle

Test Requirement:	FCC 47CFR Part 15 Section 15.407 KDB789033 D02 General U-NII Test Procedures New Rules v02r01, Section (B)
Test Method:	ANSI C63.10-2020
Test Limit:	N/A
Test Result:	PASS
Remark:	Through Pre-scan, and found 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.

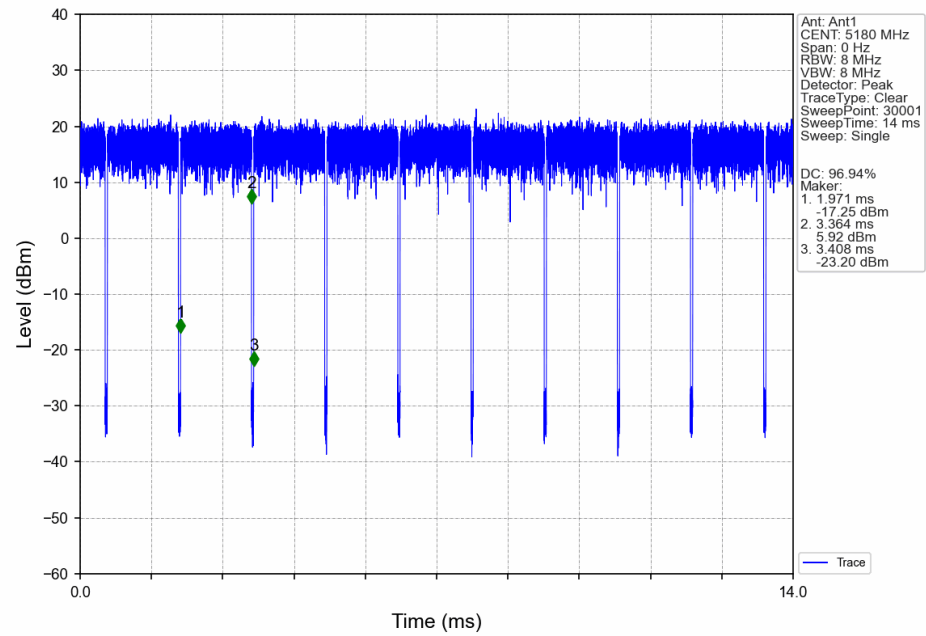
7.1 Summary of Test Results

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	1.393	1.437	96.94	0.14	0.03
		5200	1.392	1.436	96.94	0.14	0.03
		5240	1.393	1.437	96.94	0.14	0.03
		5260	1.393	1.438	96.87	0.14	0.03
		5300	1.392	1.437	96.87	0.14	0.00
		5320	1.392	1.437	96.87	0.14	0.03
		5500	1.393	1.438	96.87	0.14	0.03
		5580	1.392	1.437	96.87	0.14	0.03
		5700	1.392	1.437	96.87	0.14	0.03
		5745	1.392	1.437	96.87	0.14	0.03
		5785	1.392	1.437	96.87	0.14	0.04
		5825	1.393	1.437	96.94	0.14	0.00
802.11n (HT20)	SISO	5180	1.300	1.345	96.65	0.15	0.07
		5200	1.300	1.345	96.65	0.15	0.03
		5240	1.300	1.345	96.65	0.15	0.07
		5260	1.300	1.345	96.65	0.15	0.07
		5300	1.300	1.345	96.65	0.15	0.03
		5320	1.301	1.345	96.73	0.14	0.03
		5500	1.300	1.344	96.73	0.14	0.07
		5580	1.300	1.345	96.65	0.15	0.03
		5700	1.300	1.345	96.65	0.15	0.03
		5745	1.302	1.344	96.88	0.14	0.03
		5785	1.302	1.345	96.80	0.14	0.07
		5825	1.300	1.345	96.65	0.15	0.10
802.11n (HT40)	SISO	5190	0.648	0.692	93.64	0.29	0.03
		5230	0.648	0.692	93.64	0.29	0.06
		5270	0.649	0.692	93.79	0.28	0.03
		5310	0.649	0.692	93.79	0.28	0.07
		5510	0.648	0.692	93.64	0.29	0.07
		5550	0.650	0.692	93.93	0.27	0.03
		5670	0.650	0.692	93.93	0.27	0.03
		5755	0.648	0.692	93.64	0.29	0.03
		5795	0.649	0.692	93.79	0.28	0.03
802.11ac (VHT20)	SISO	5180	1.313	1.357	96.76	0.14	0.03
		5200	1.314	1.356	96.90	0.14	0.03
		5240	1.312	1.357	96.68	0.15	0.07
		5260	1.312	1.356	96.76	0.14	0.00

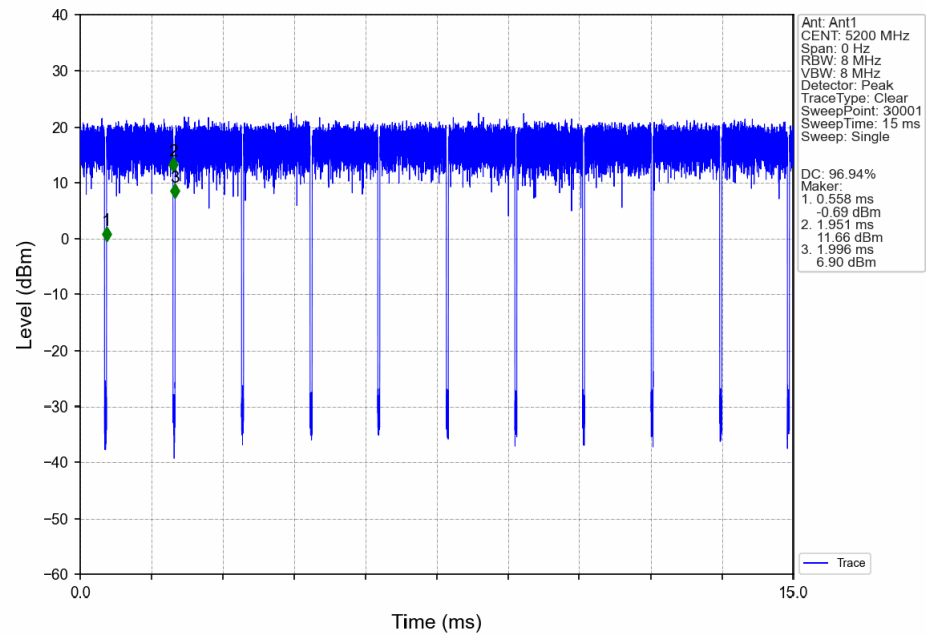
		5300	1.312	1.357	96.68	0.15	0.04
		5320	1.312	1.357	96.68	0.15	0.03
		5500	1.312	1.357	96.68	0.15	0.07
		5580	1.312	1.357	96.68	0.15	0.03
		5700	1.313	1.357	96.76	0.14	0.03
		5745	1.314	1.357	96.83	0.14	0.07
		5785	1.315	1.357	96.90	0.14	0.03
		5825	1.315	1.357	96.90	0.14	0.03
802.11ac (VHT40)	SISO	5190	0.653	0.696	93.82	0.28	0.06
		5230	0.653	0.696	93.82	0.28	0.06
		5270	0.652	0.696	93.68	0.28	0.07
		5310	0.652	0.696	93.68	0.28	0.04
		5510	0.652	0.696	93.68	0.28	0.06
		5550	0.653	0.696	93.82	0.28	0.07
		5670	0.653	0.697	93.69	0.28	0.03
		5755	0.653	0.696	93.82	0.28	0.03
802.11ac (VHT80)	SISO	5795	0.653	0.697	93.69	0.28	0.06
		5210	0.325	0.367	88.56	0.53	0.07
		5290	0.326	0.368	88.59	0.53	0.07
		5530	0.326	0.367	88.83	0.51	0.07
		5610	0.326	0.368	88.59	0.53	0.07
		5775	0.326	0.368	88.59	0.53	0.07

Test result plots shown as follows:

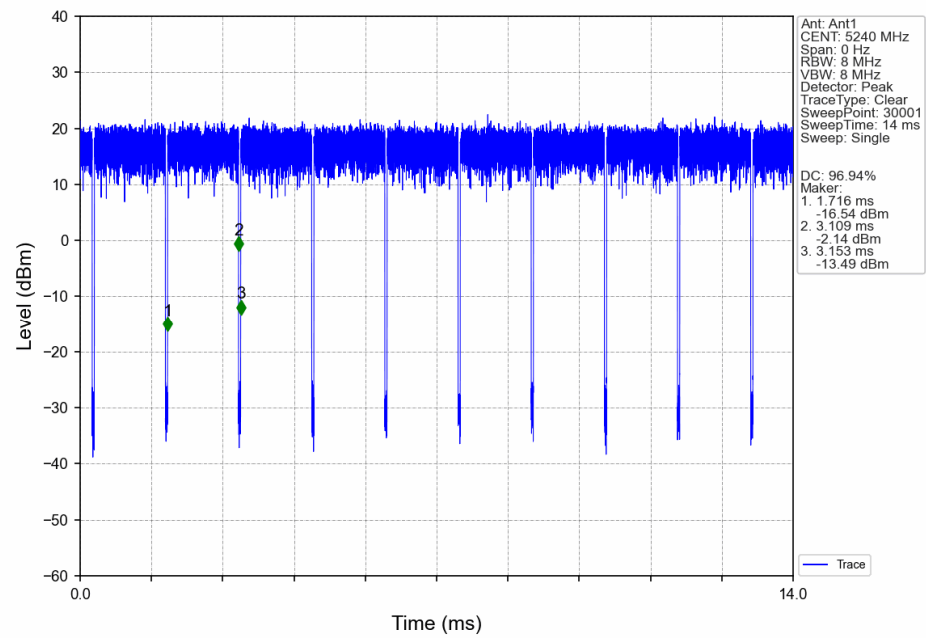
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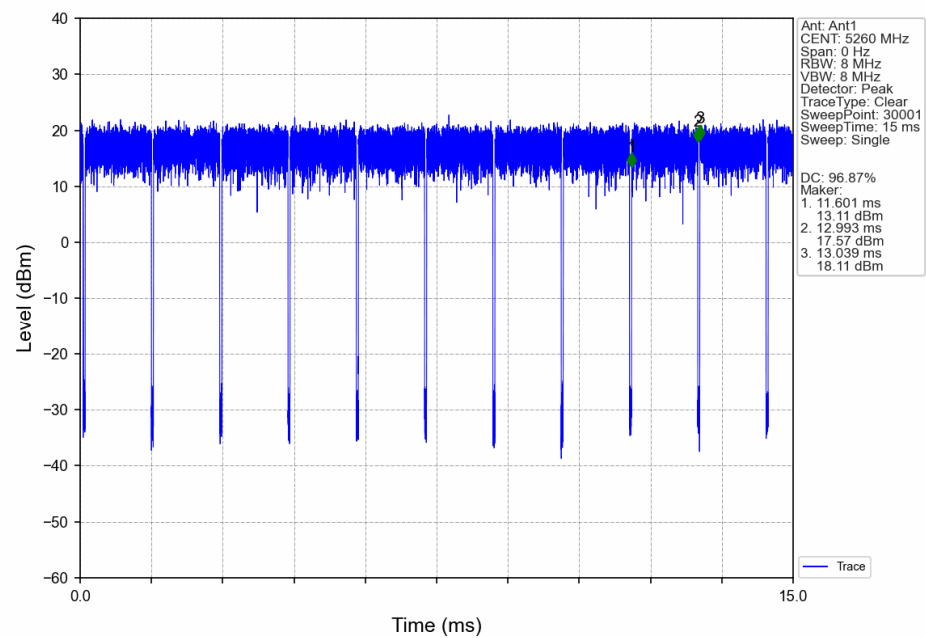
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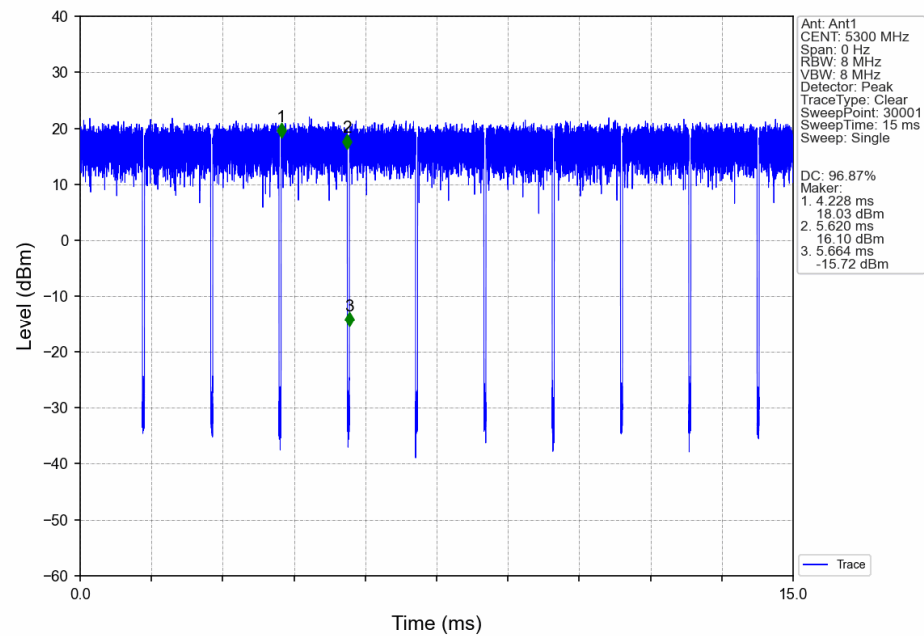
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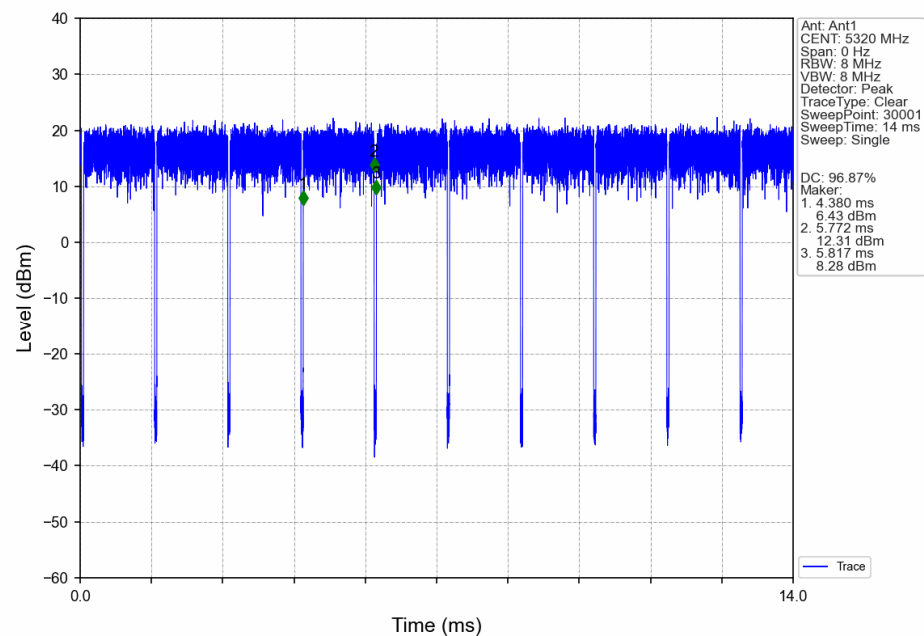
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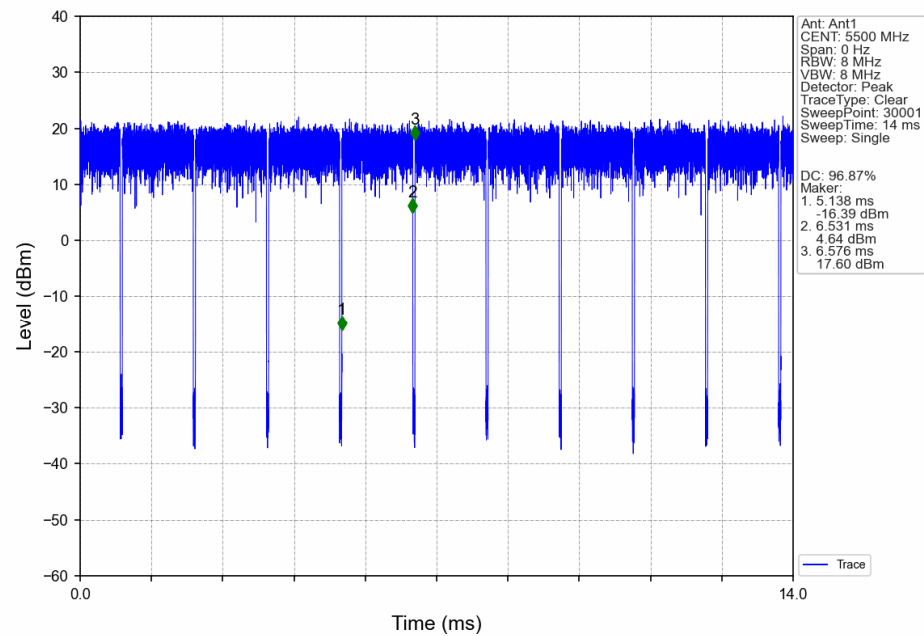
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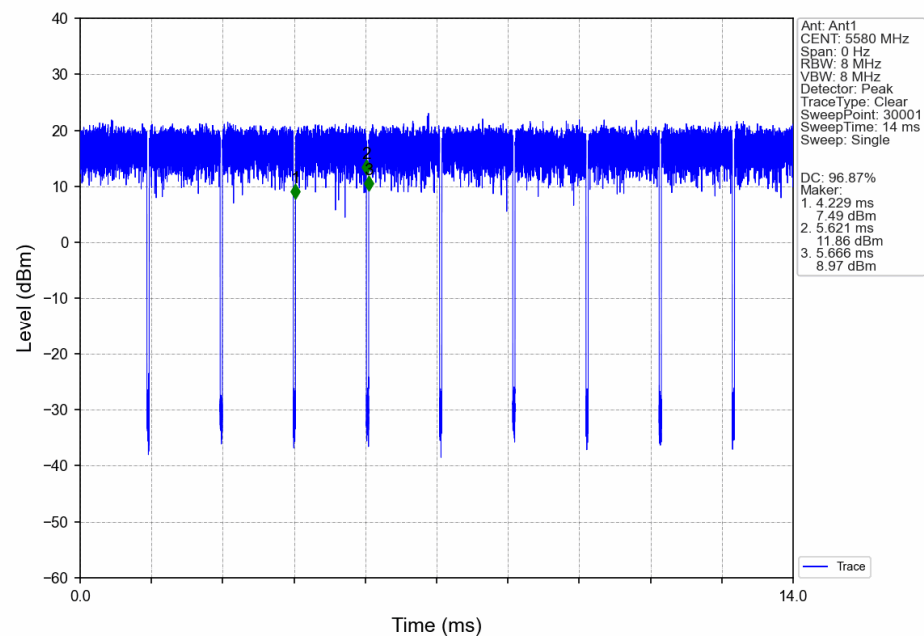
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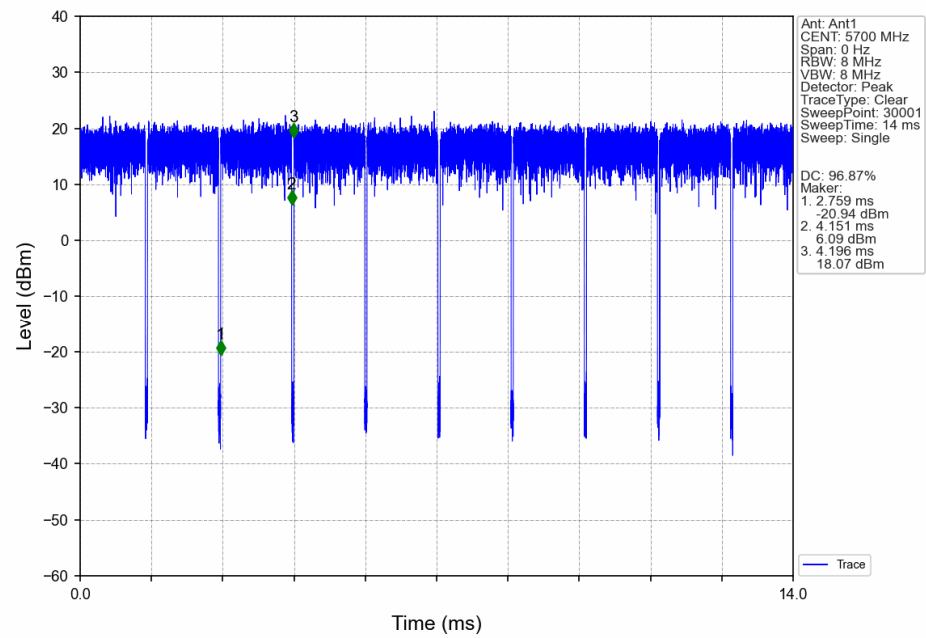
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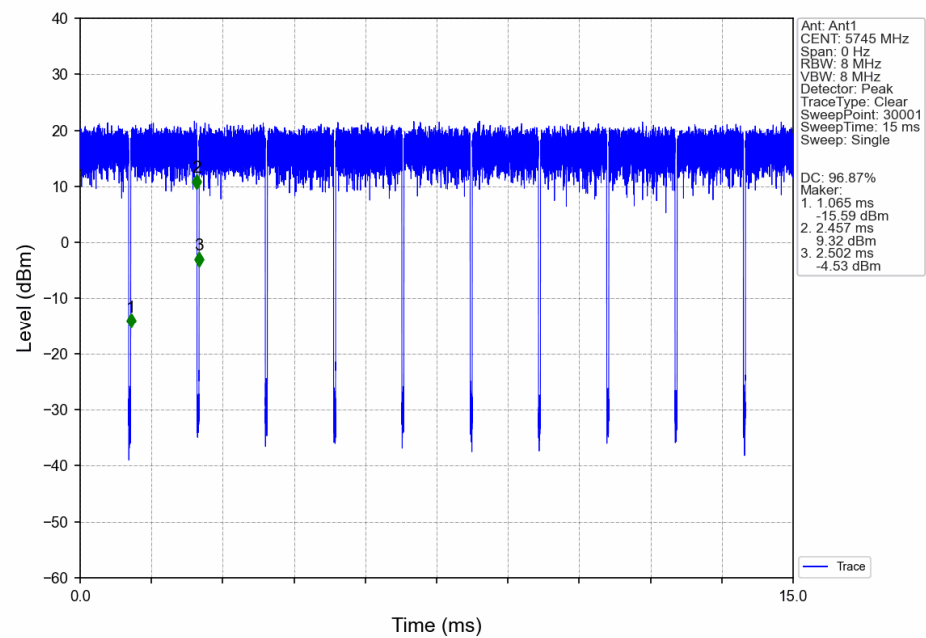
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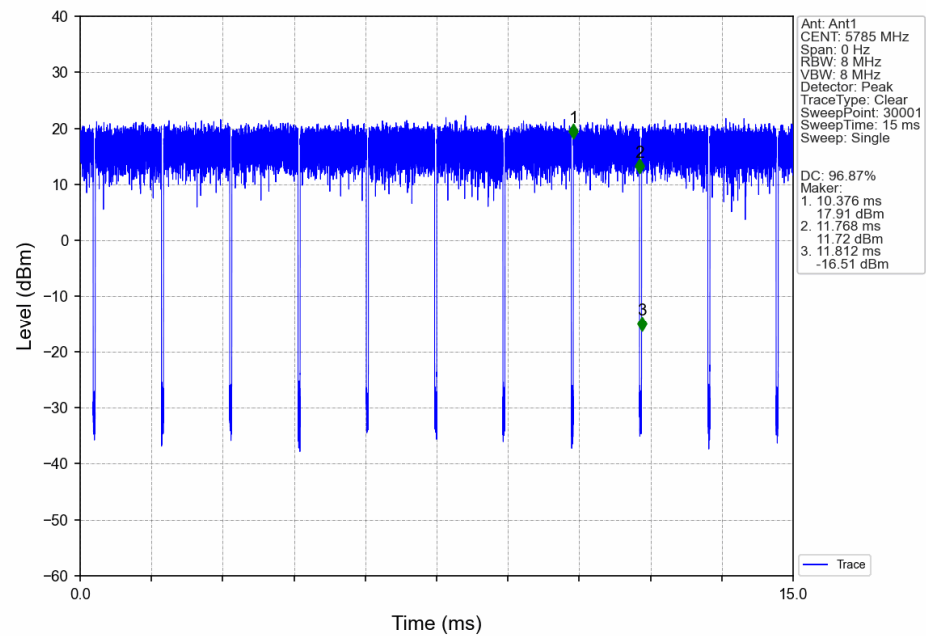
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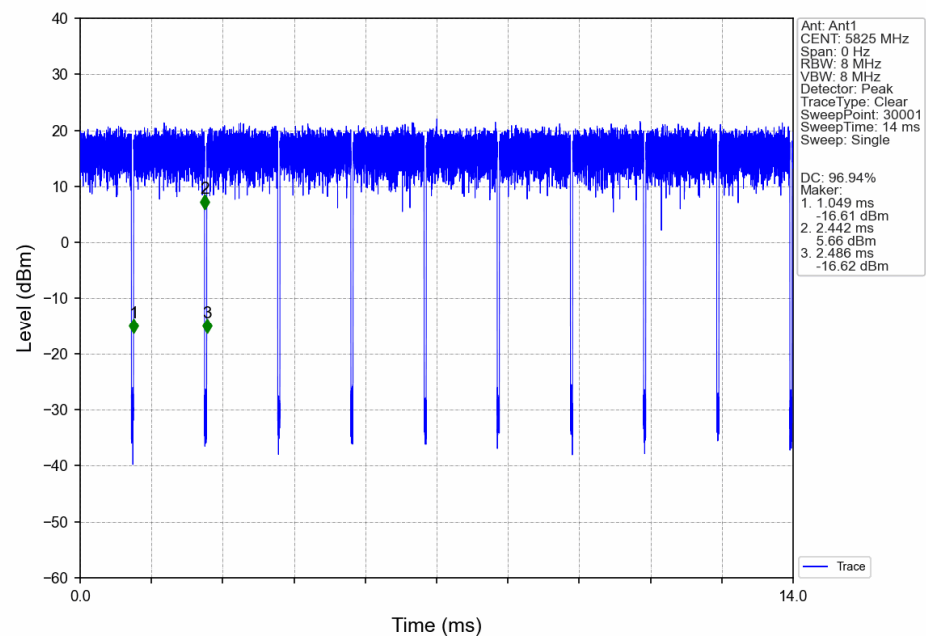
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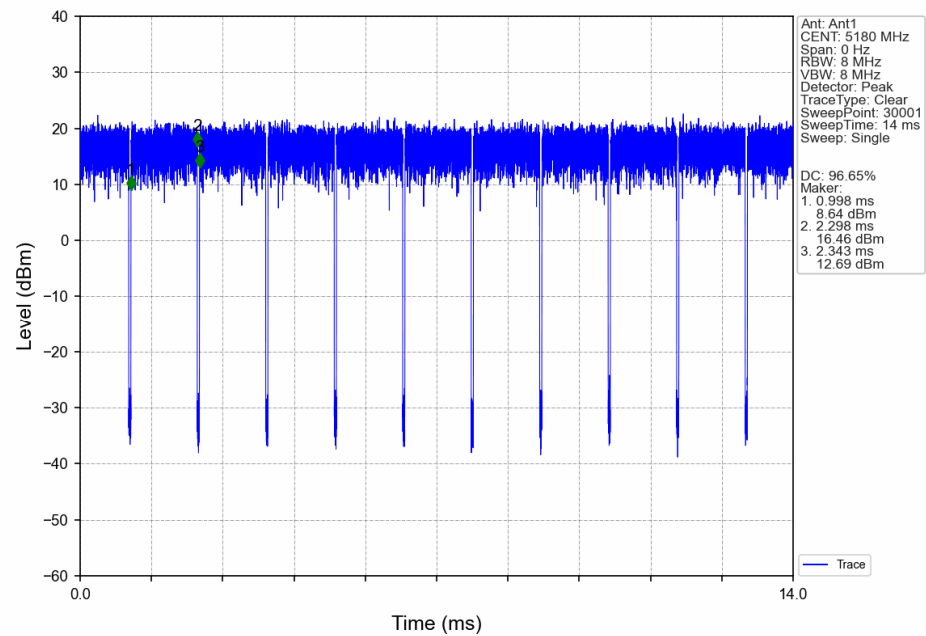
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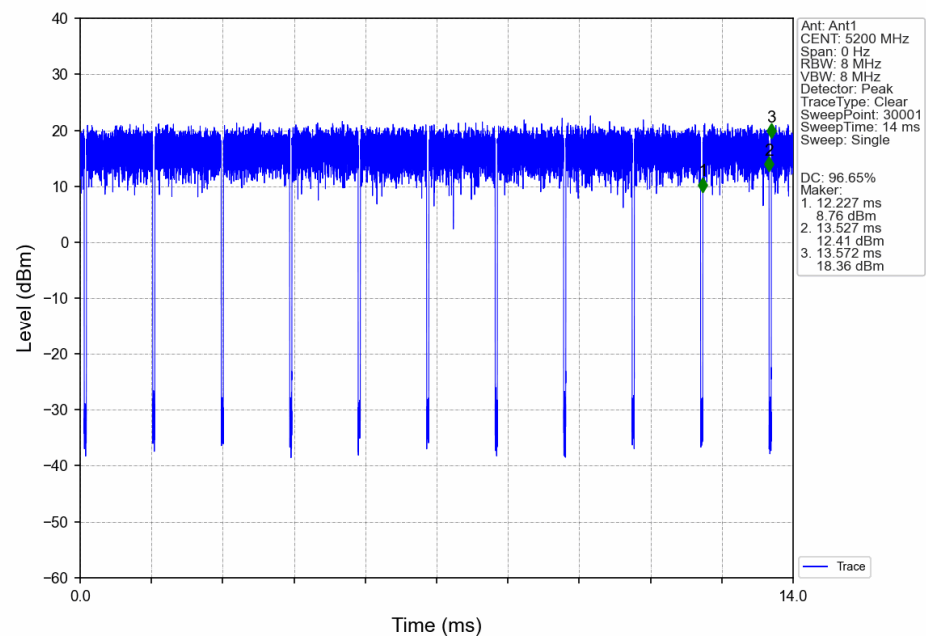
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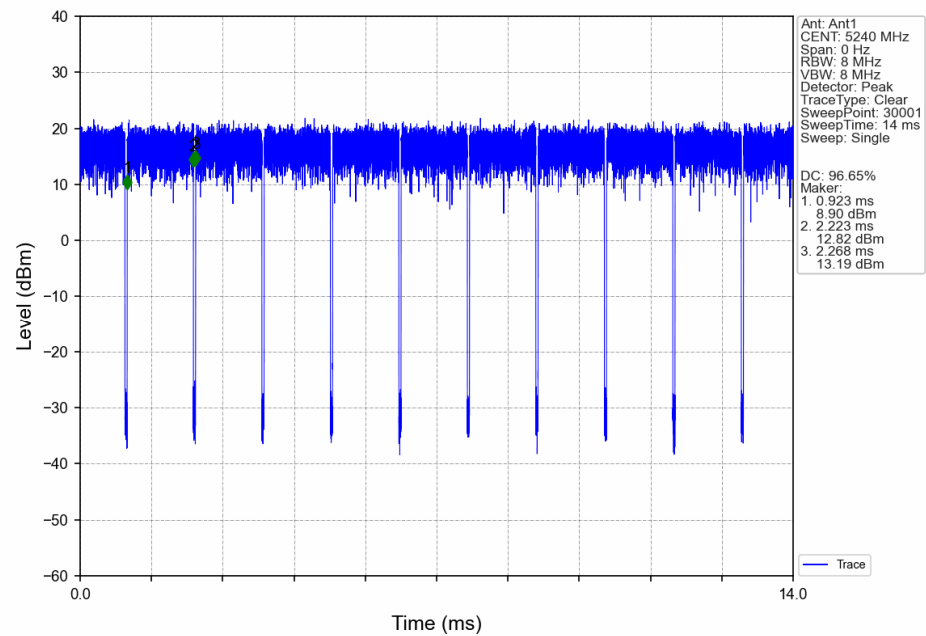
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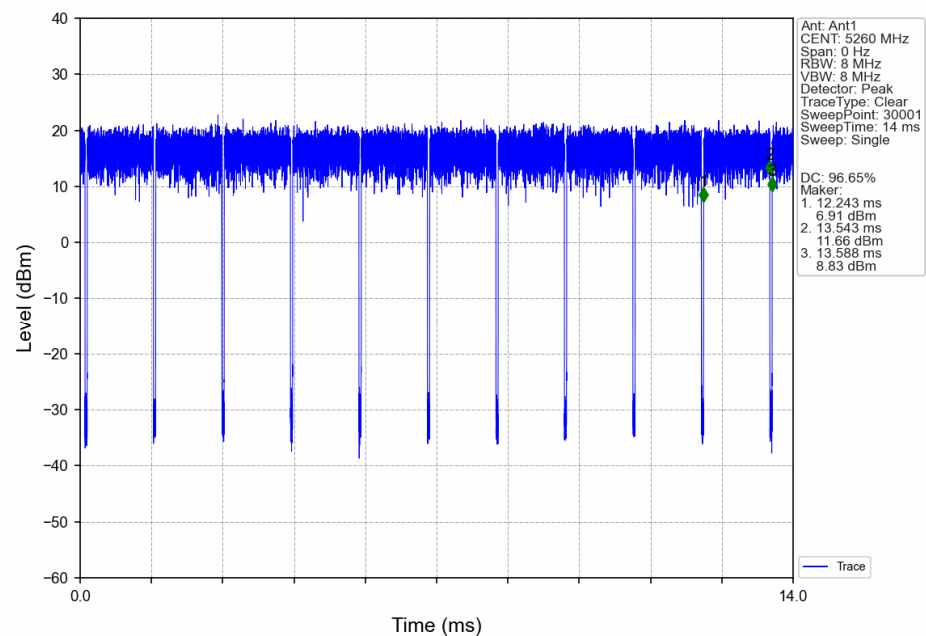
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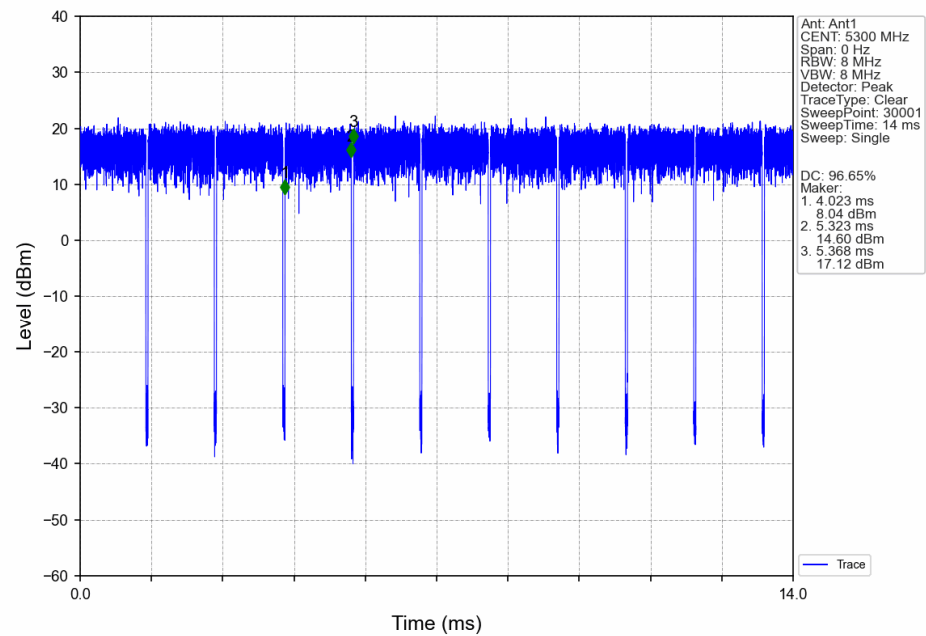
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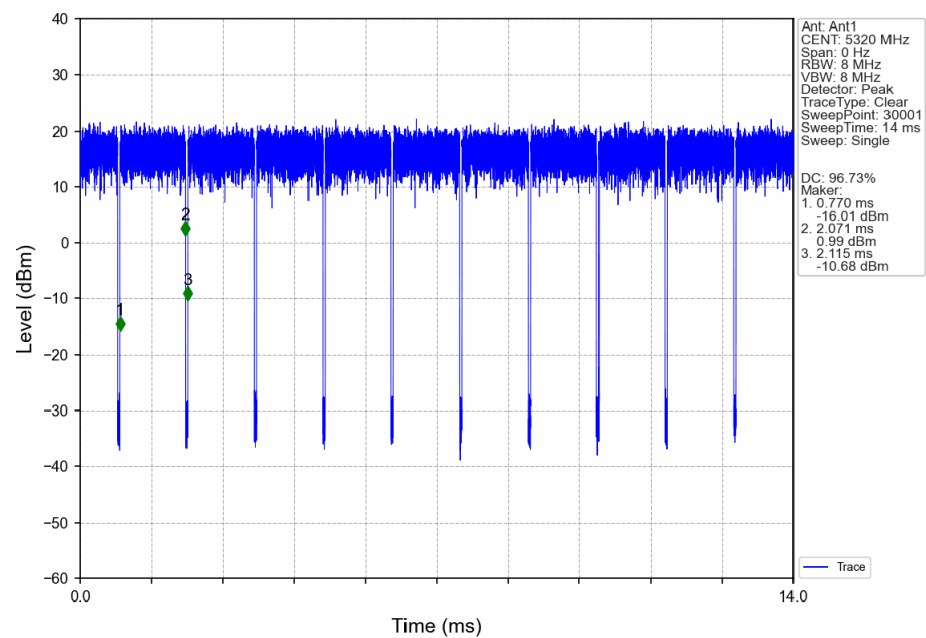
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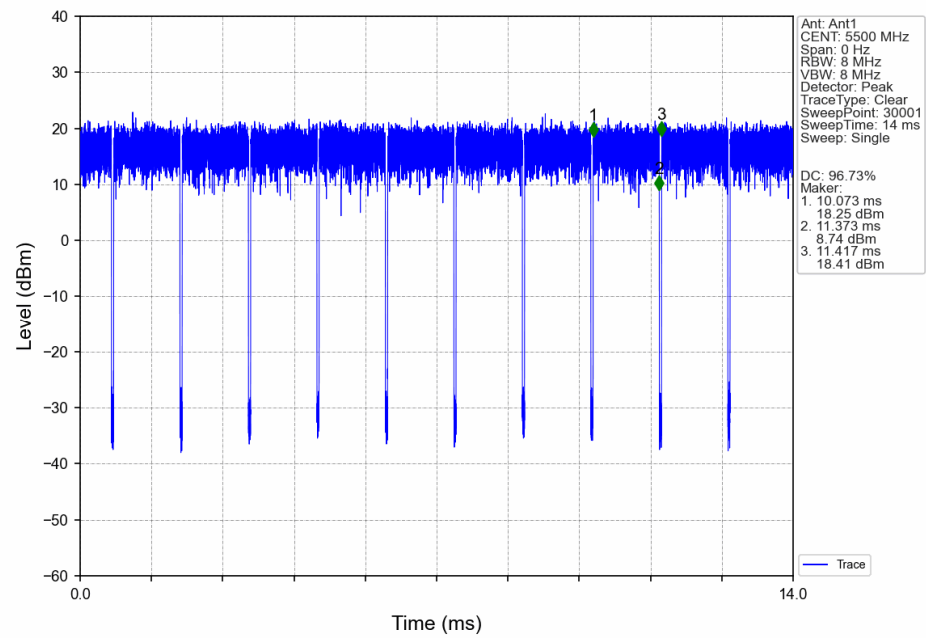
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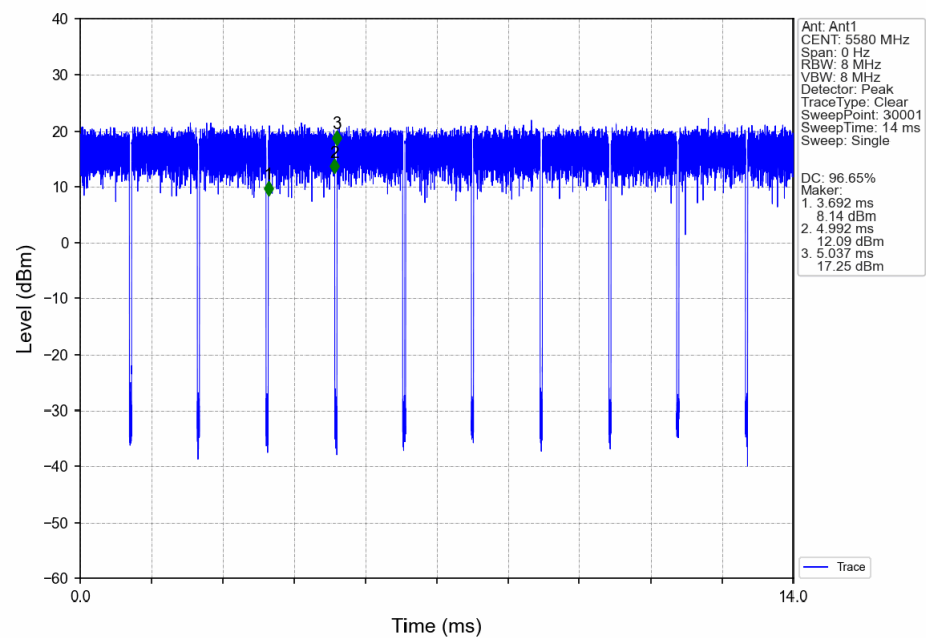
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



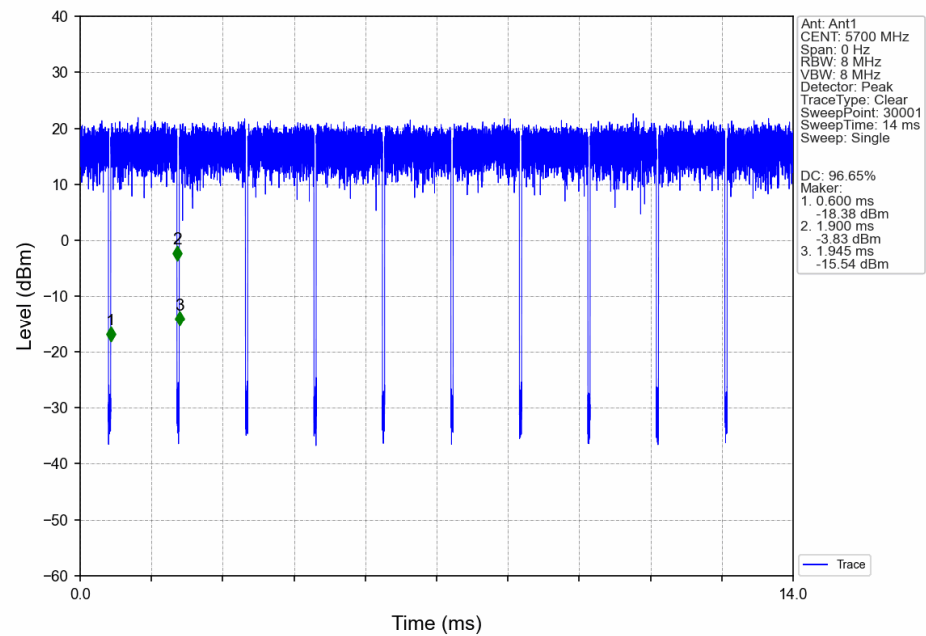
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



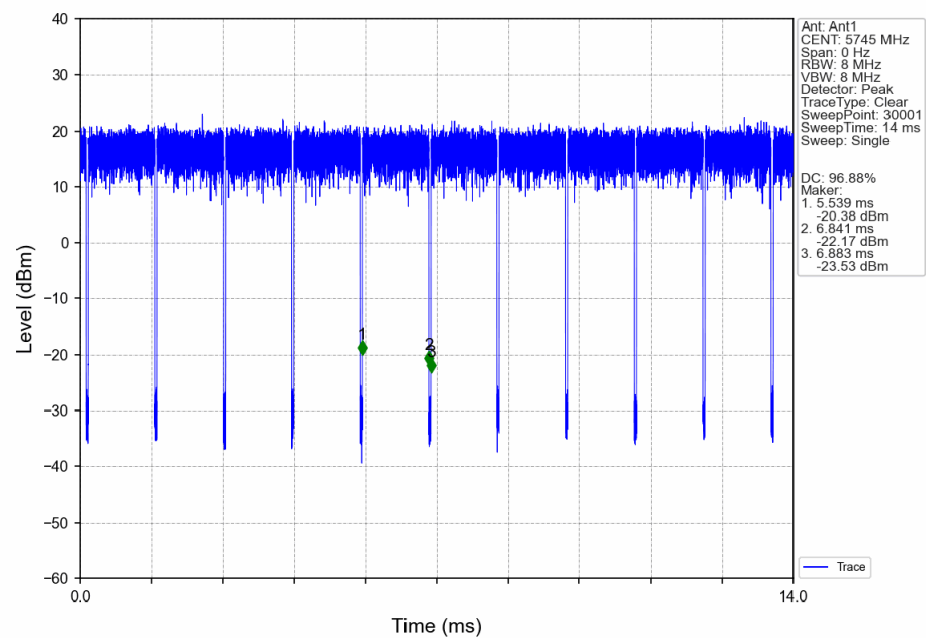
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



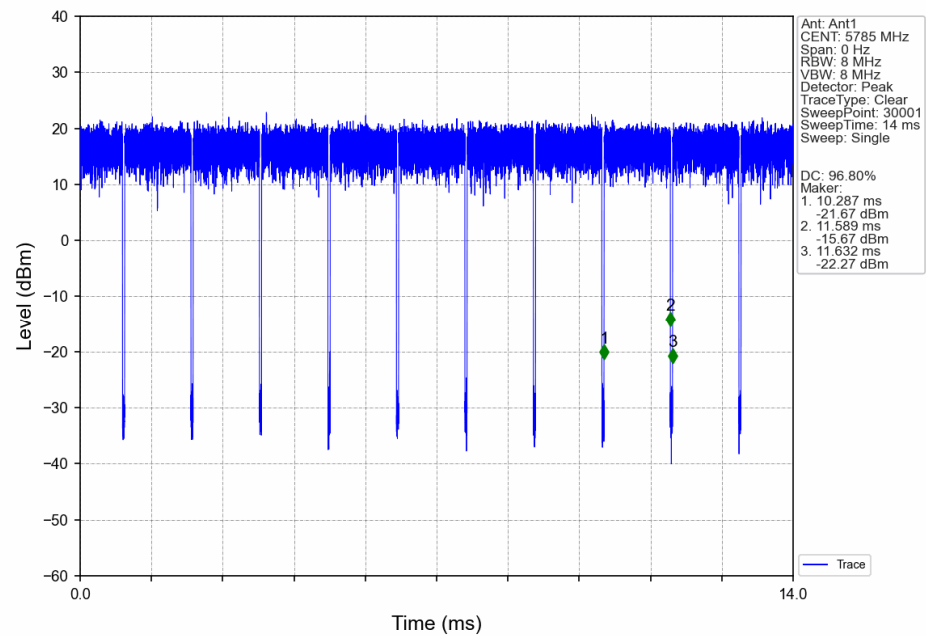
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



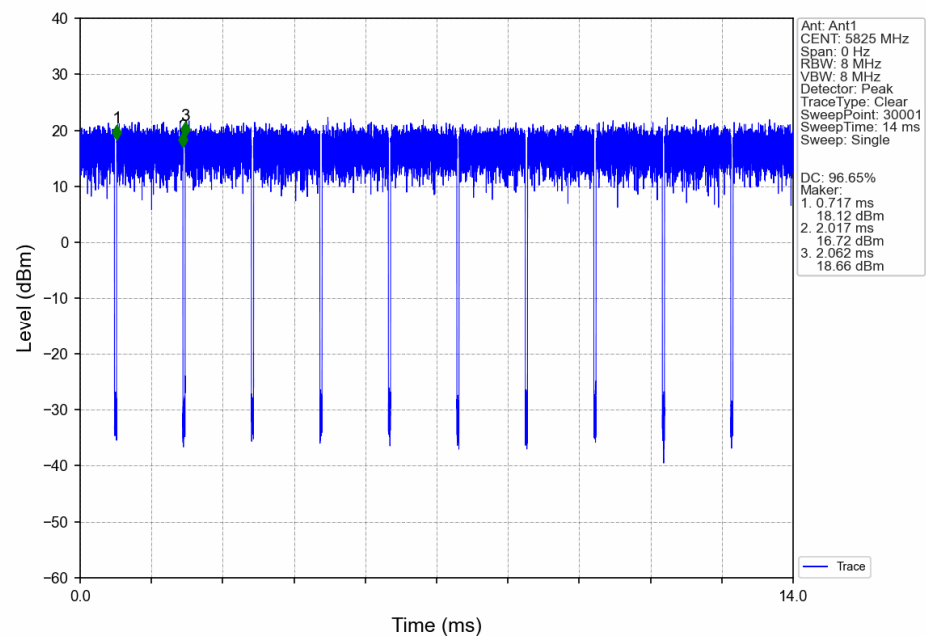
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



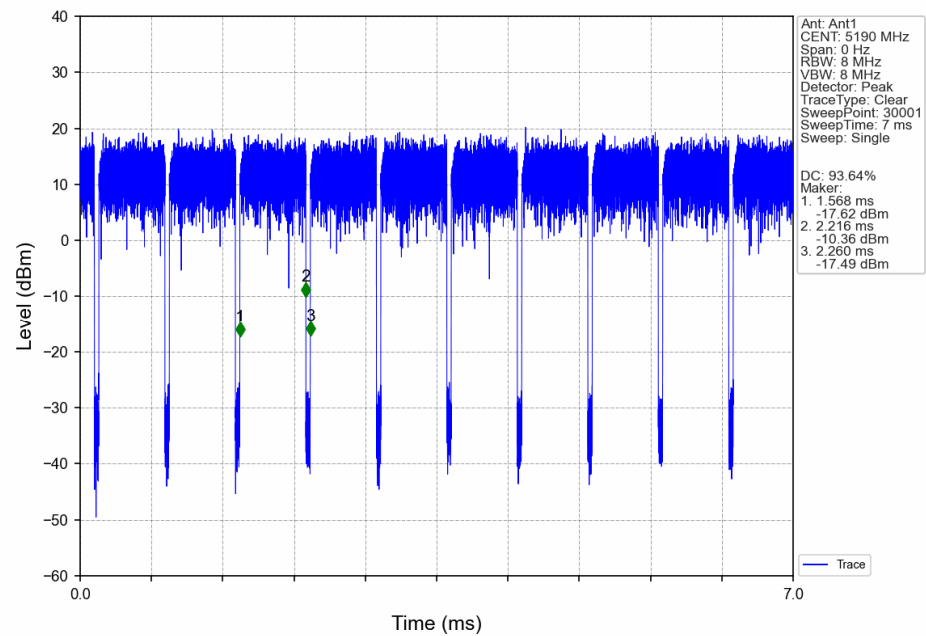
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



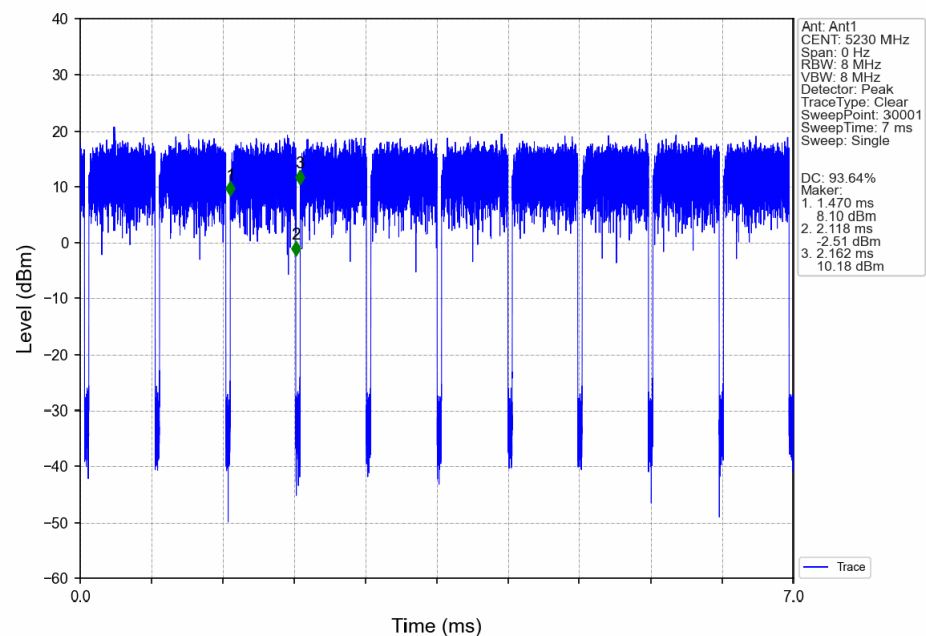
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



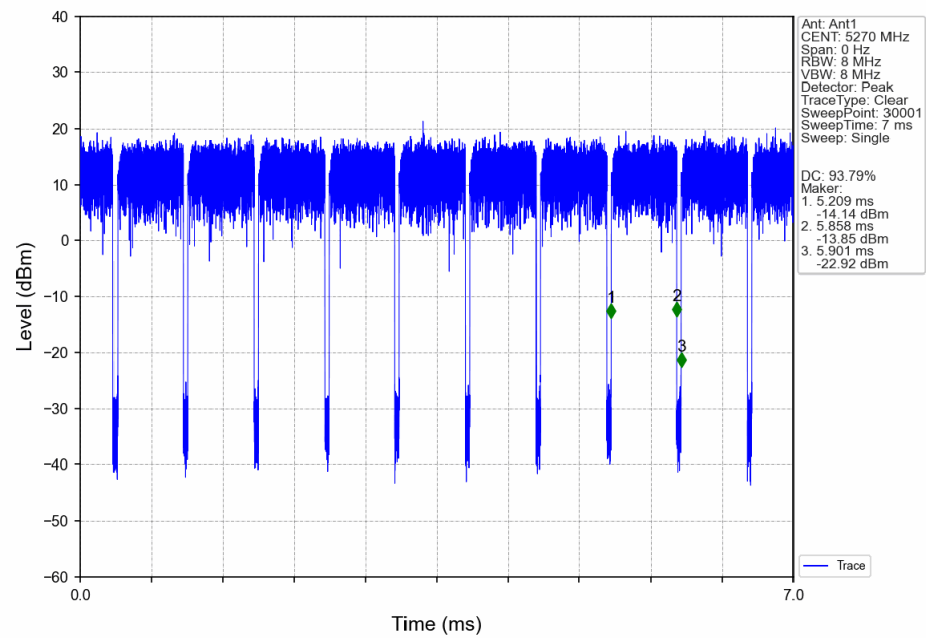
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



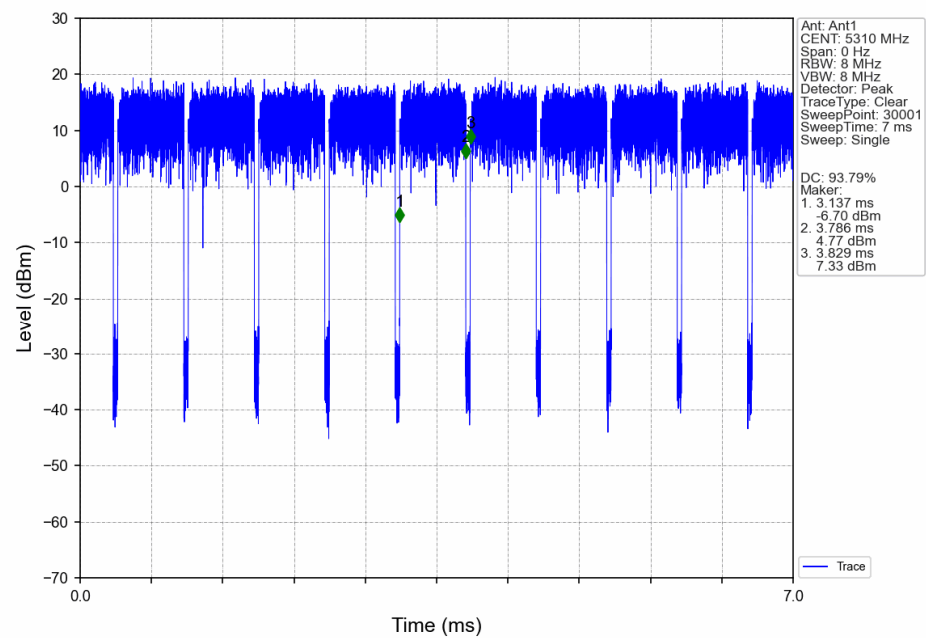
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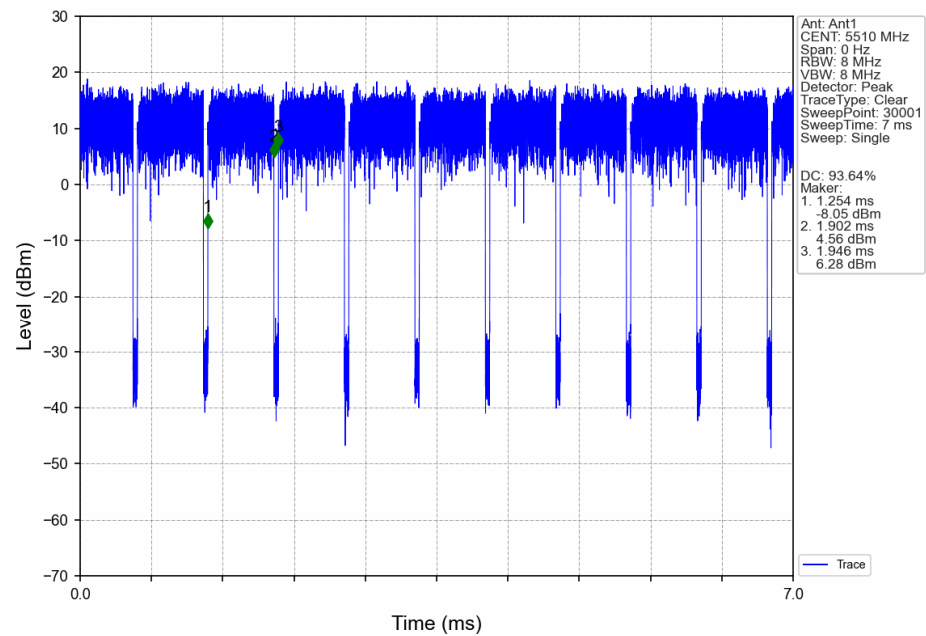
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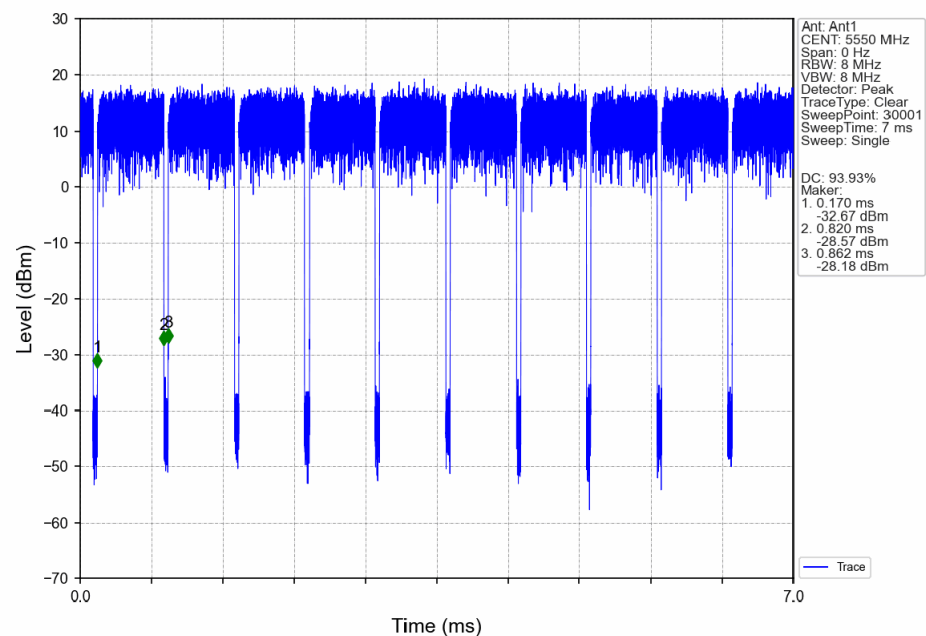
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



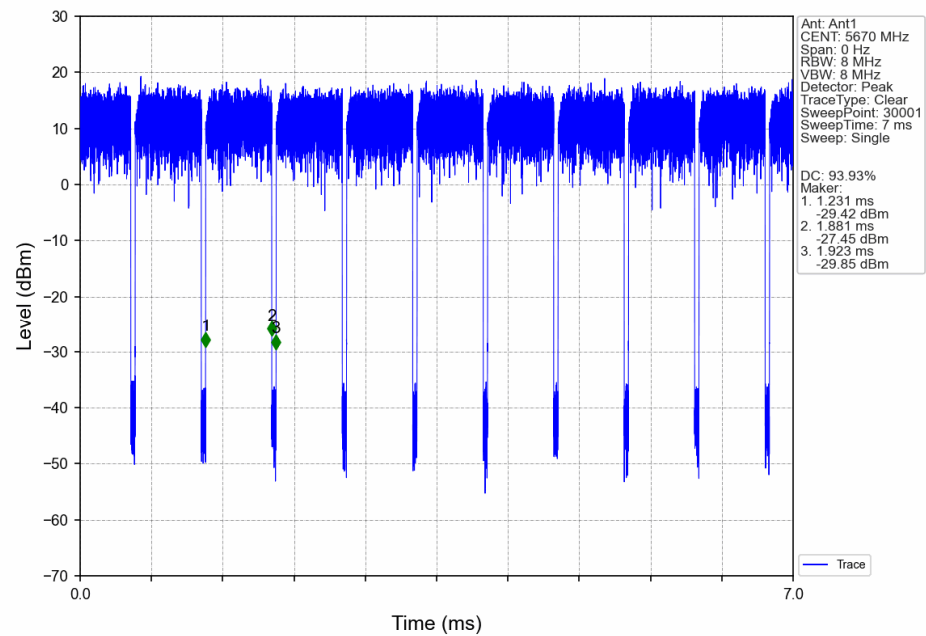
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



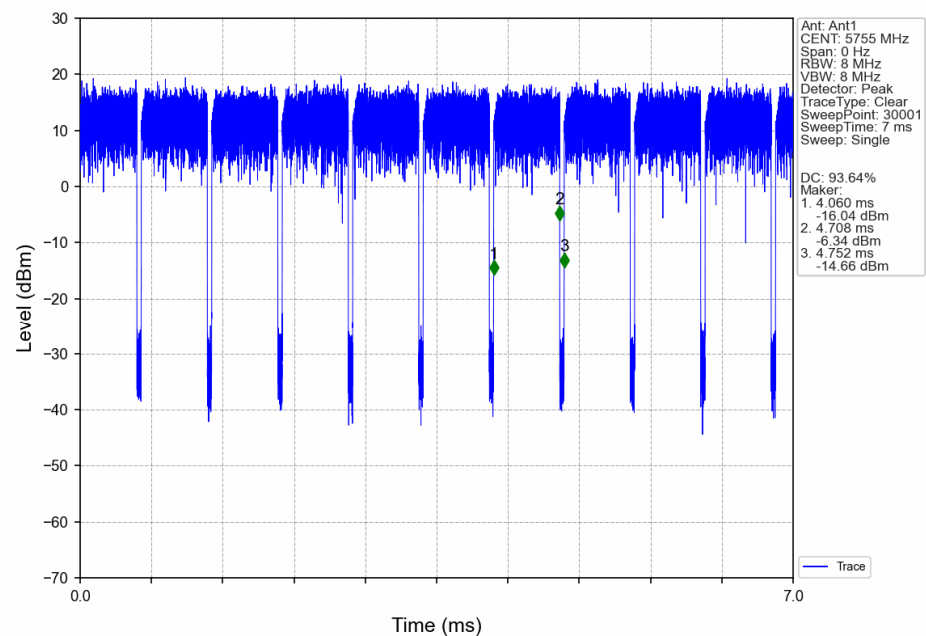
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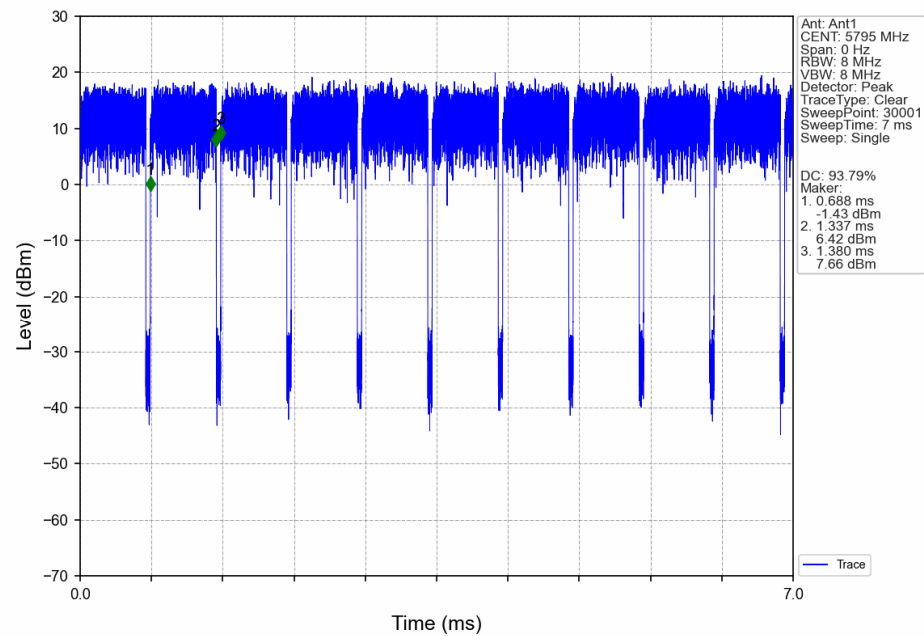
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



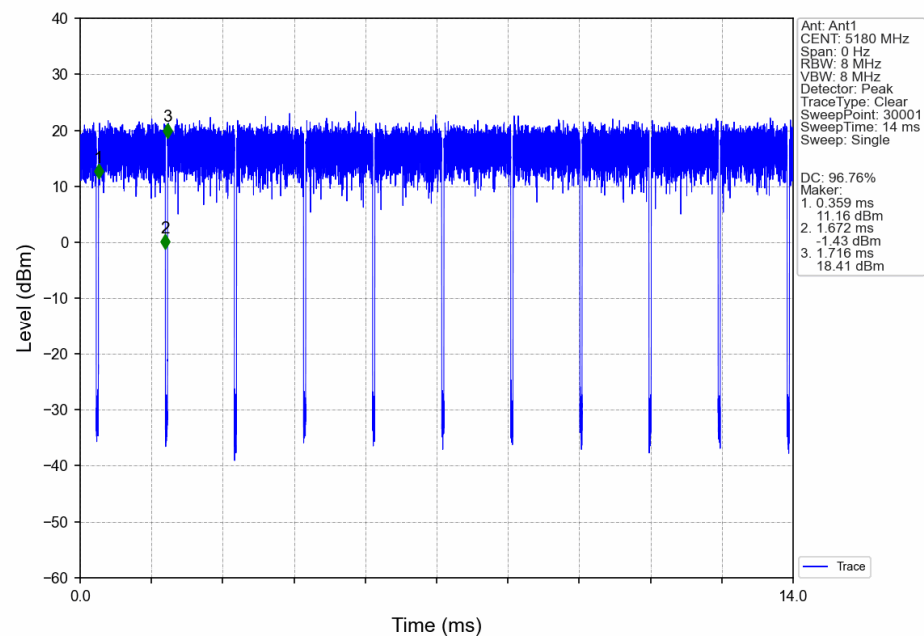
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



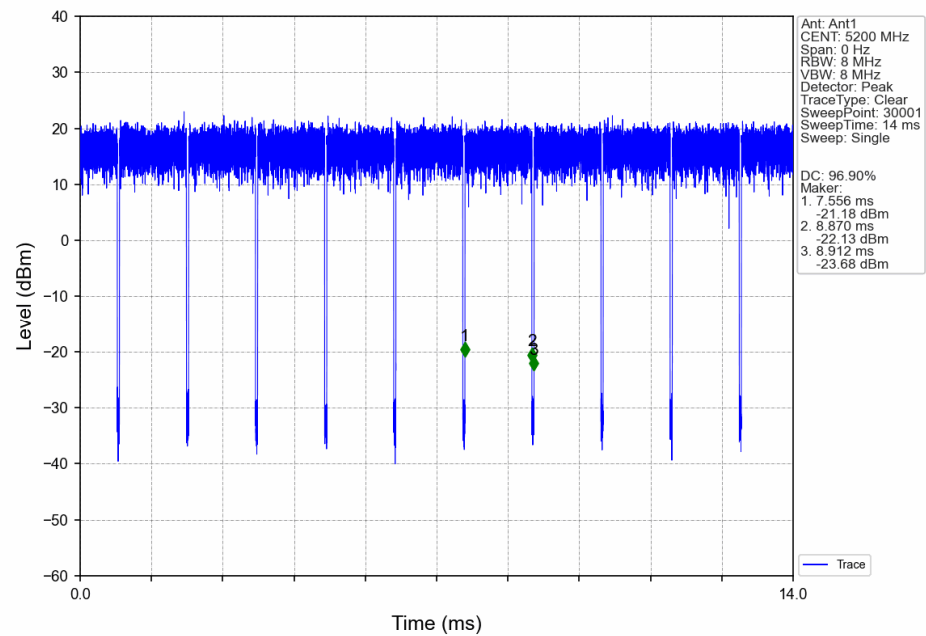
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



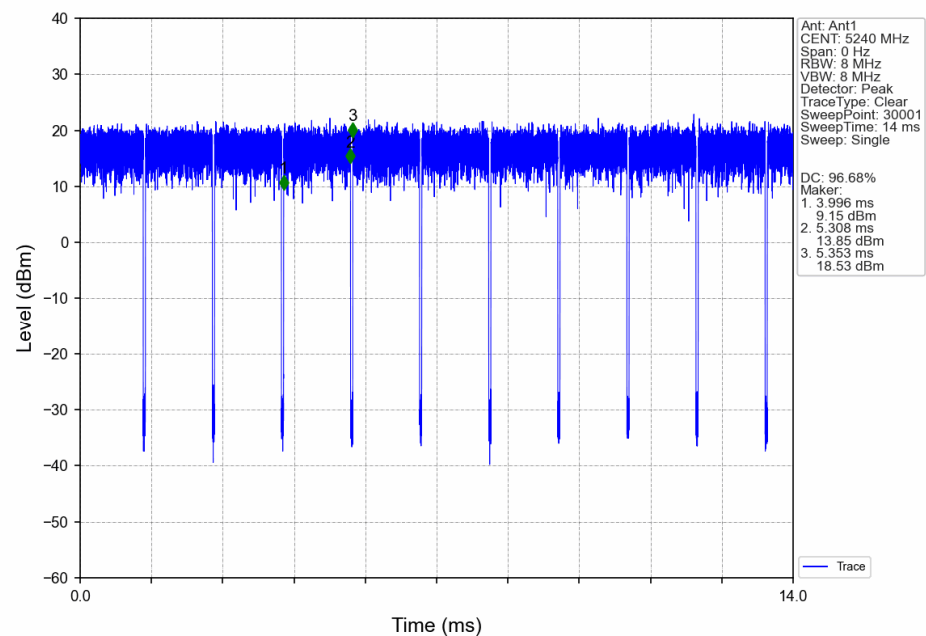
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



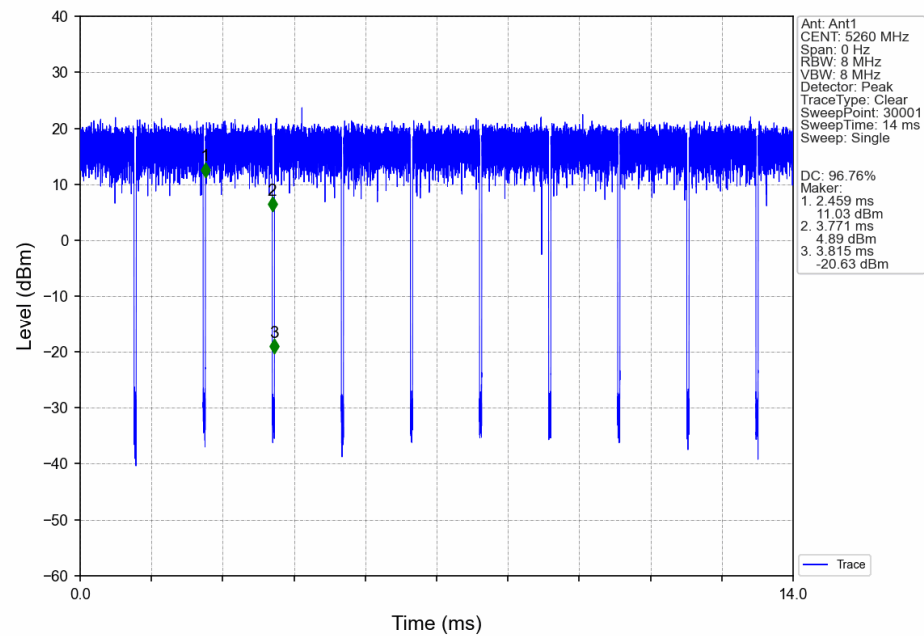
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



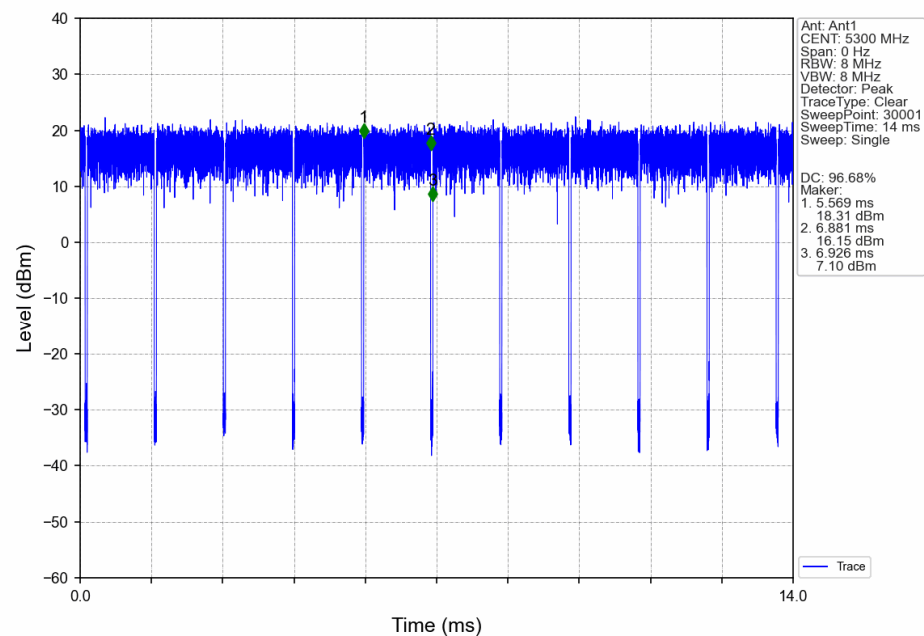
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



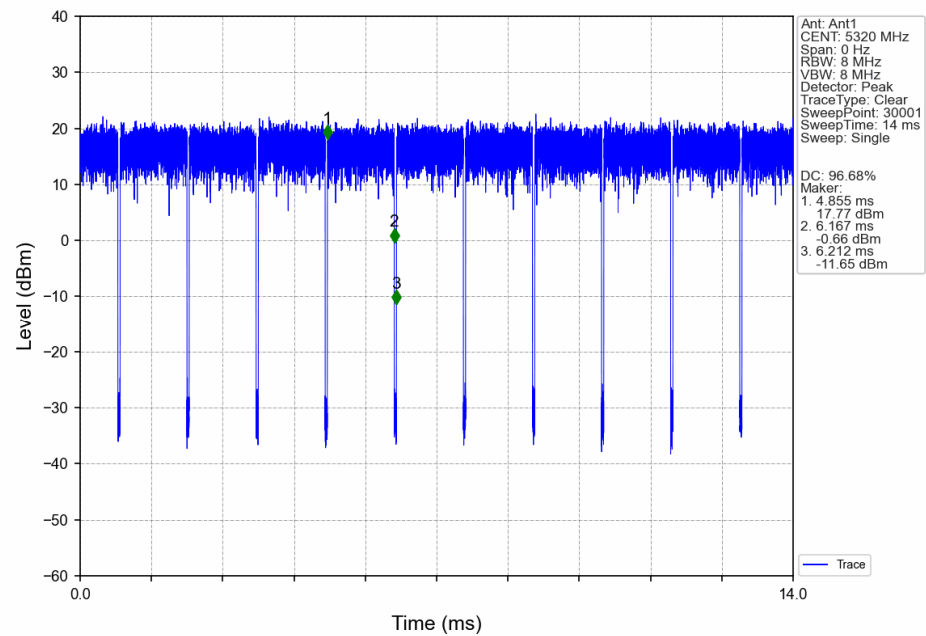
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



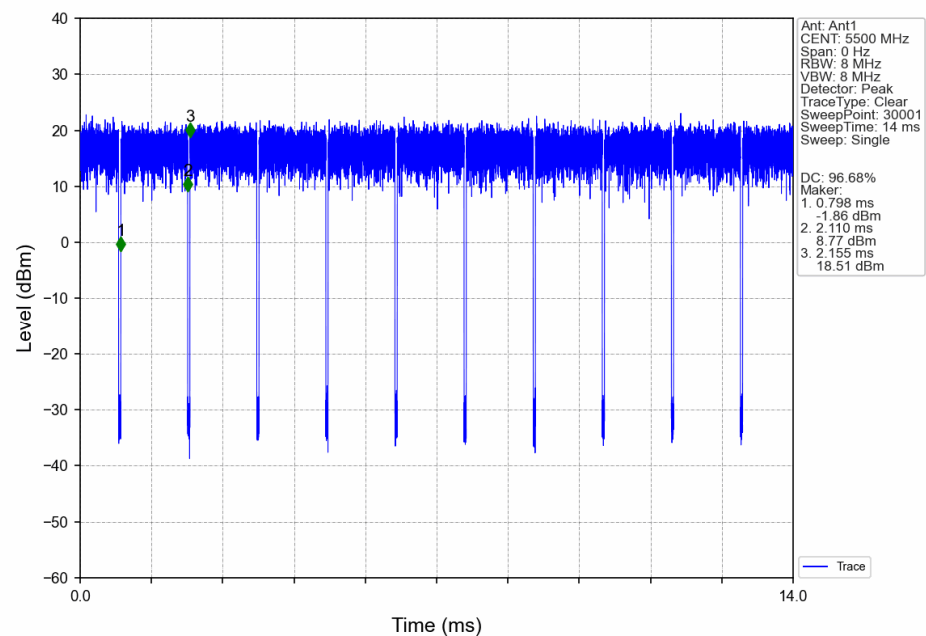
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



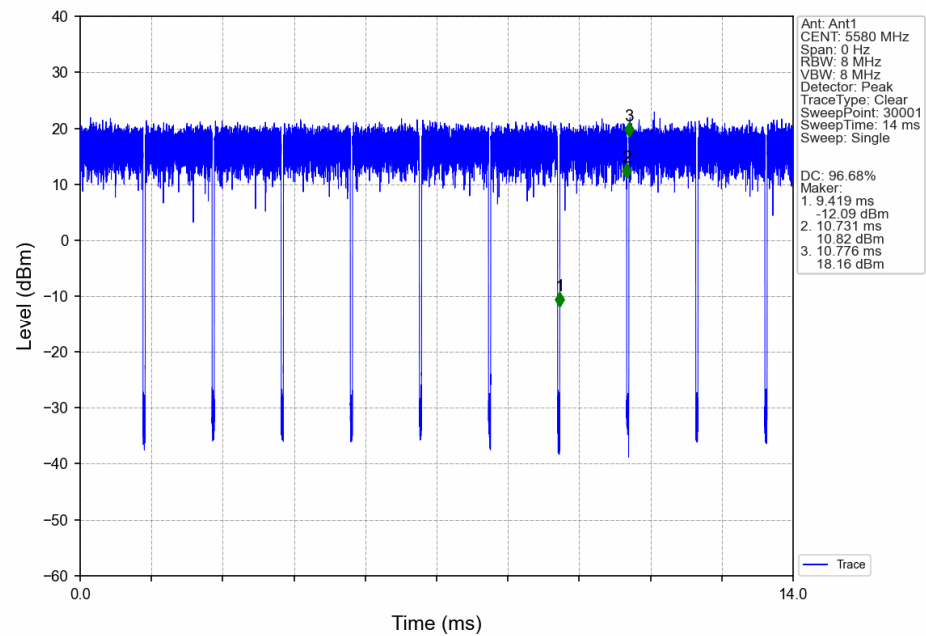
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



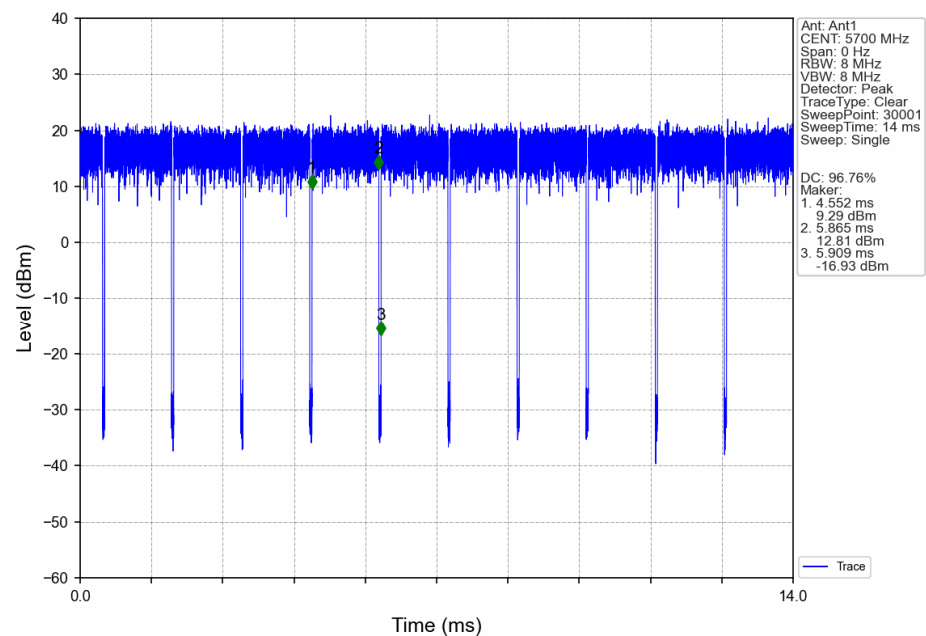
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



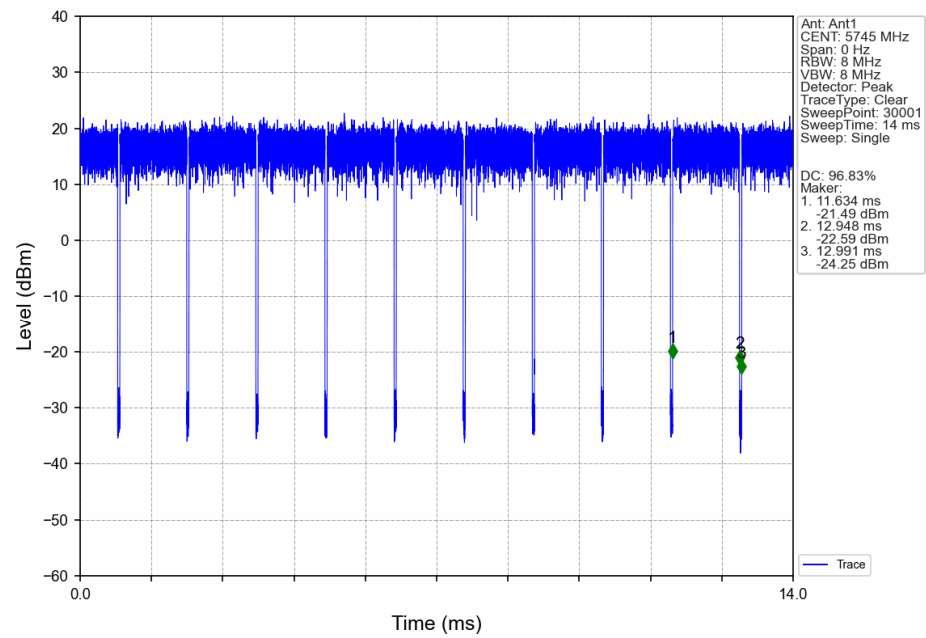
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



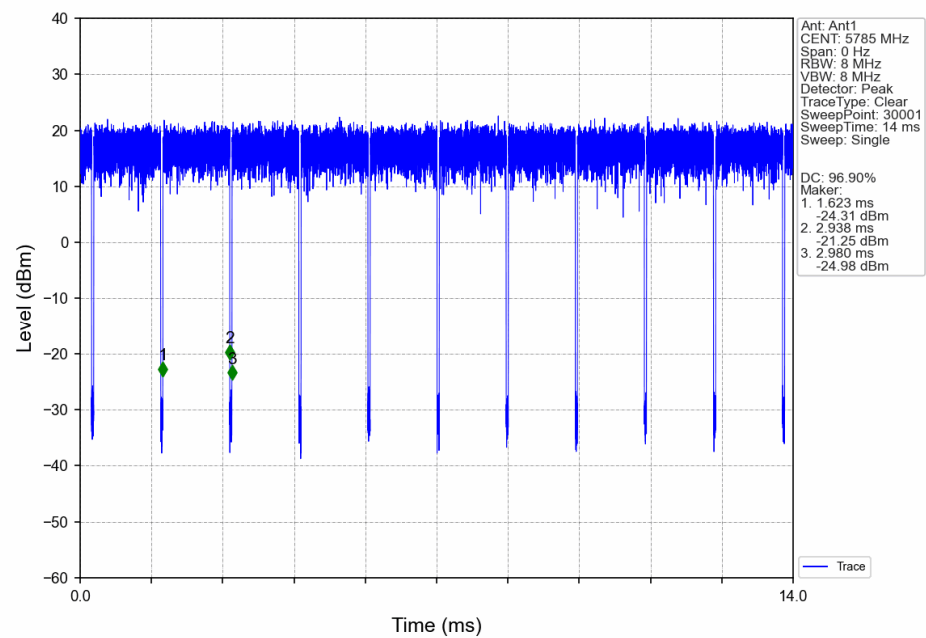
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



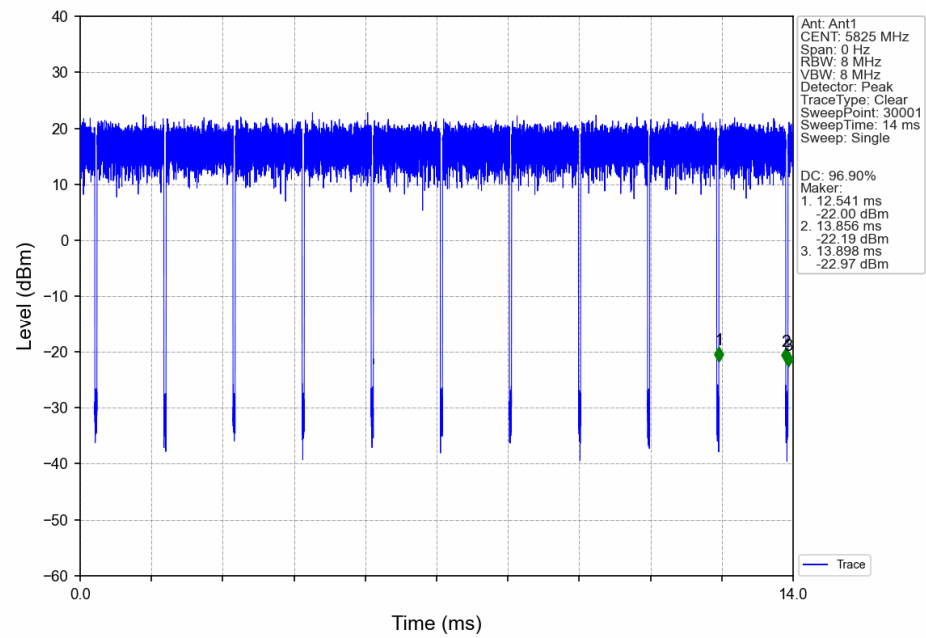
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



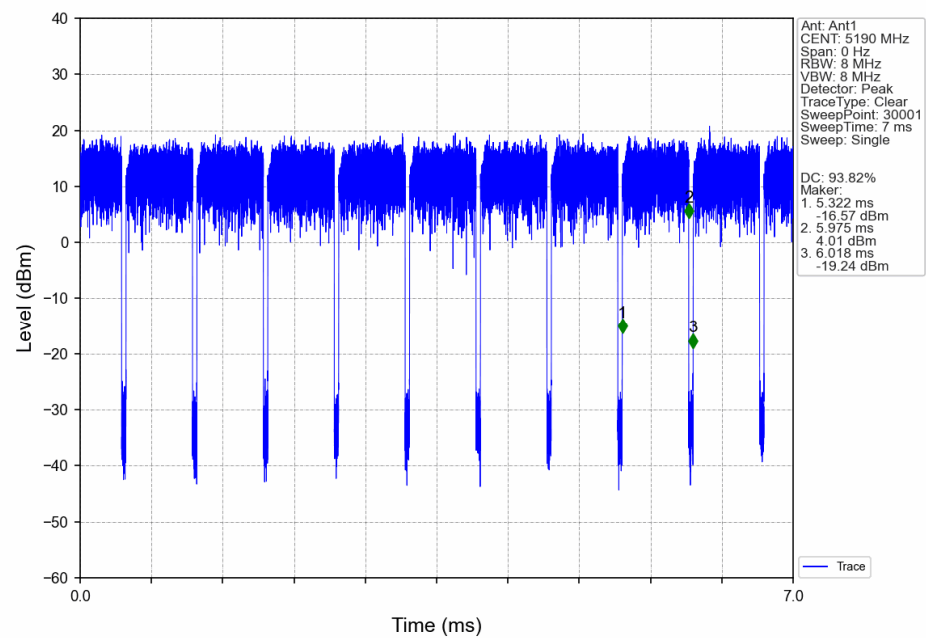
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



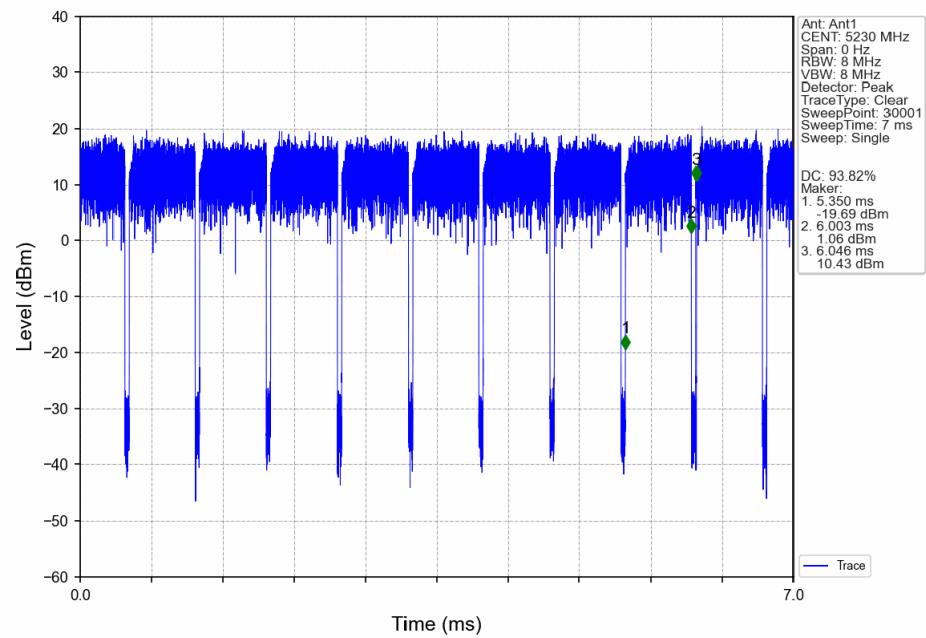
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



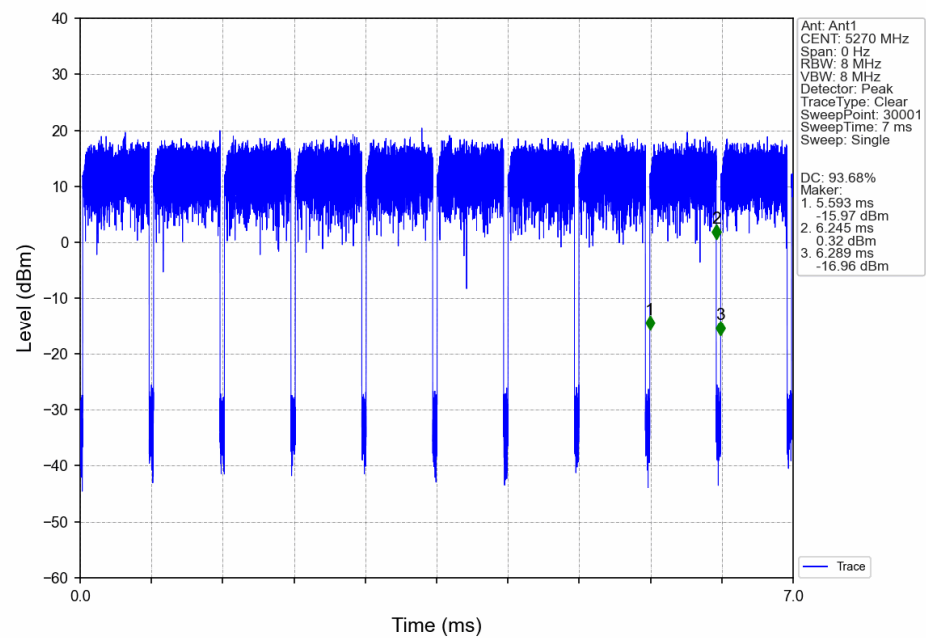
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



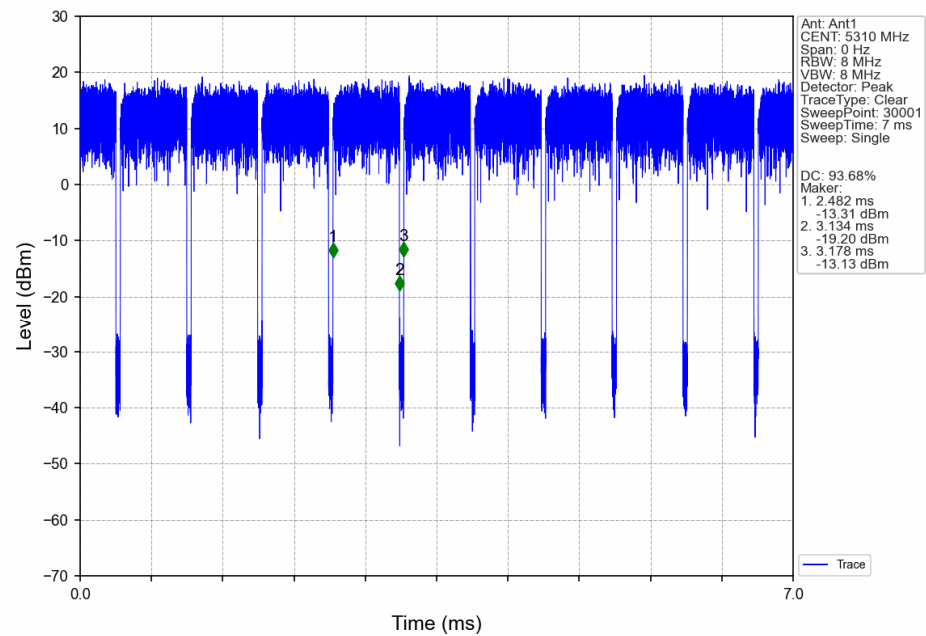
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



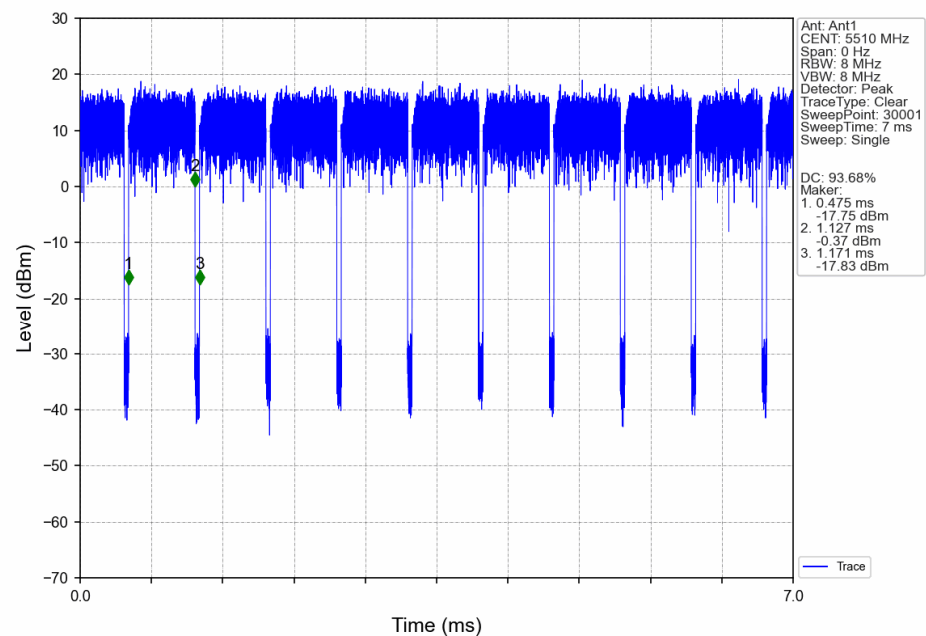
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



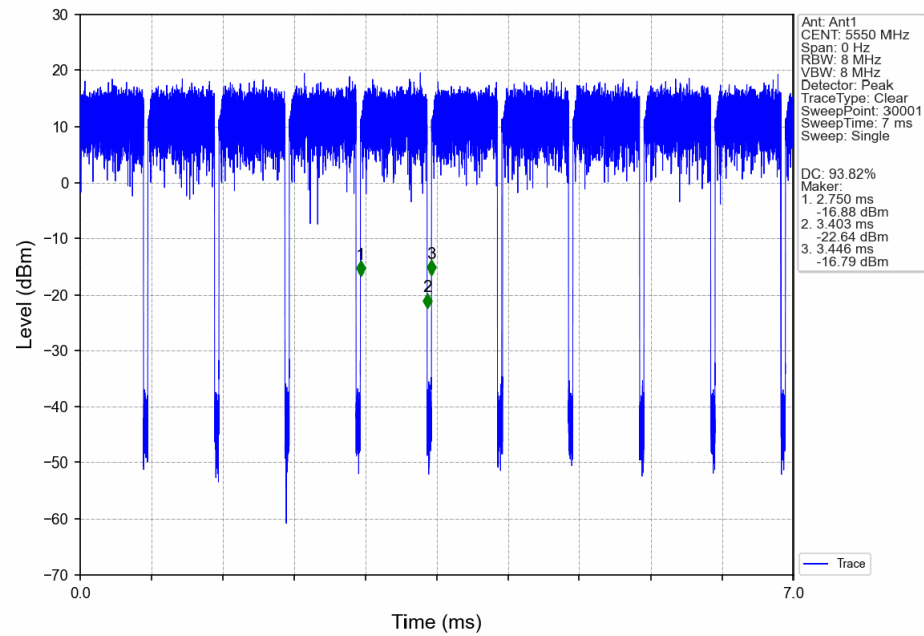
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



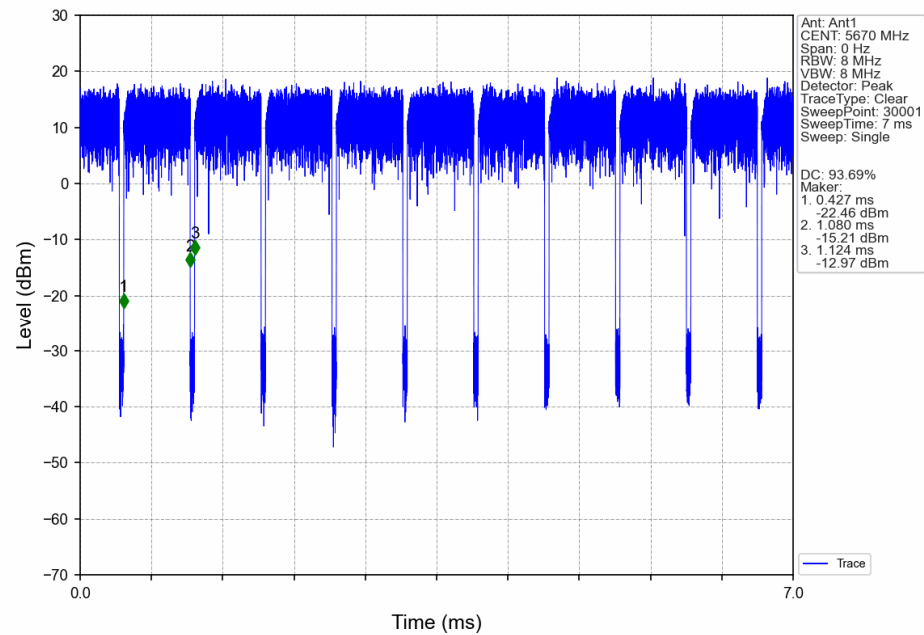
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



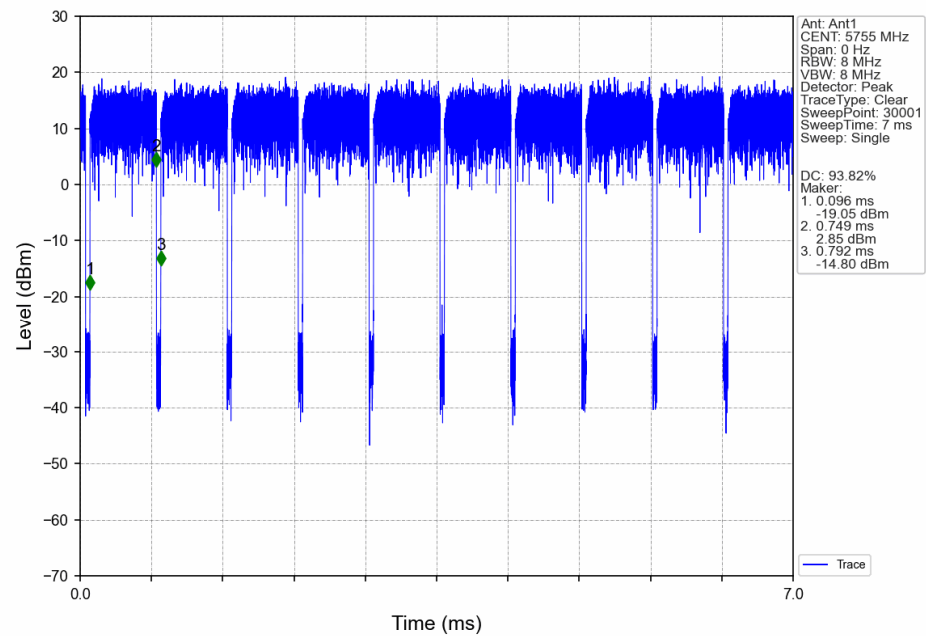
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



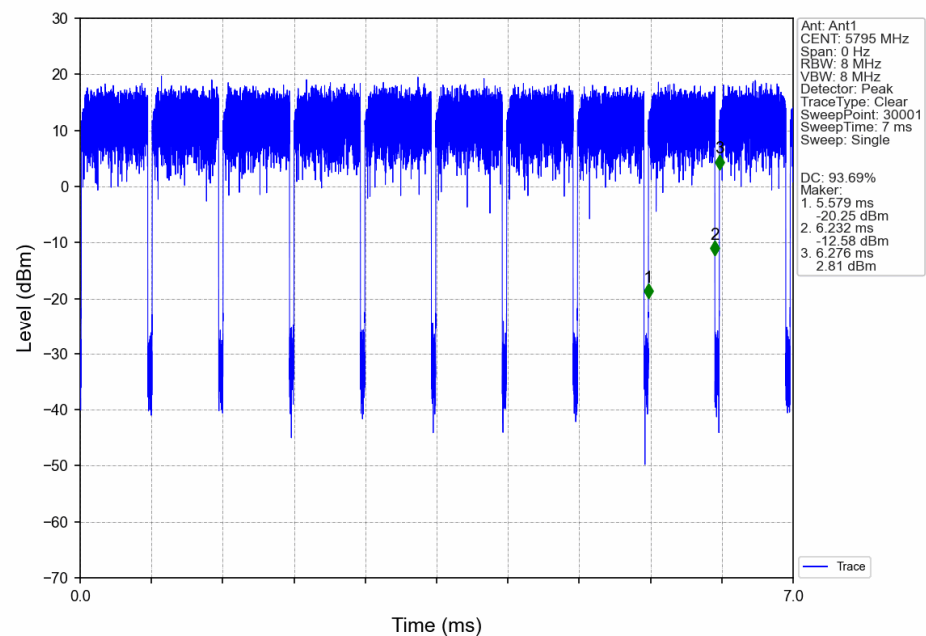
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



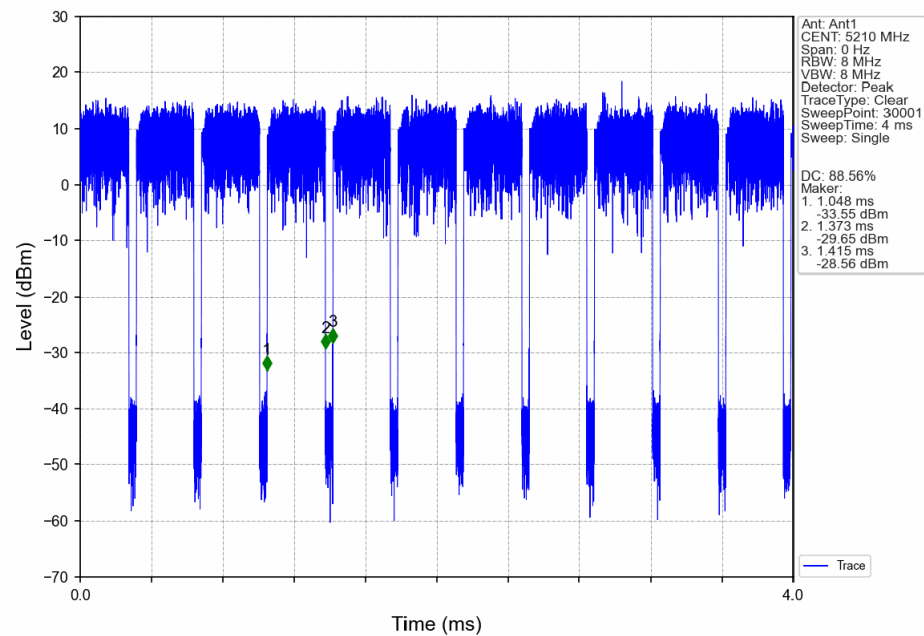
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



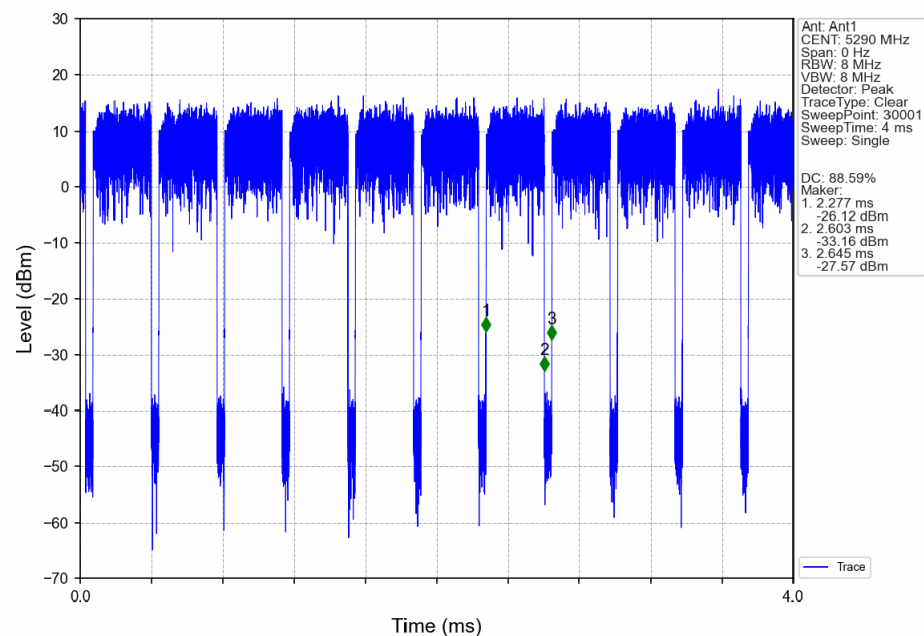
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



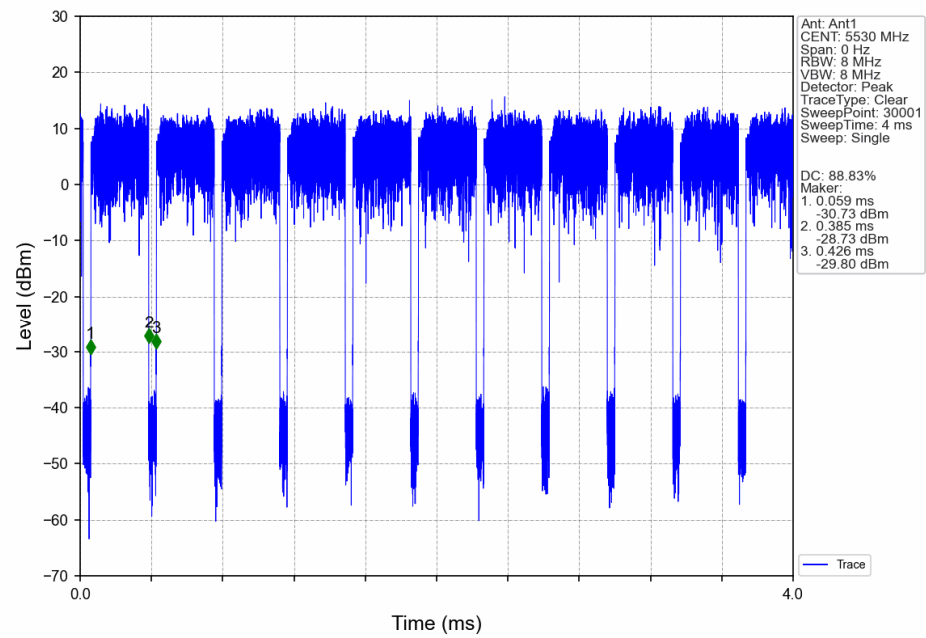
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



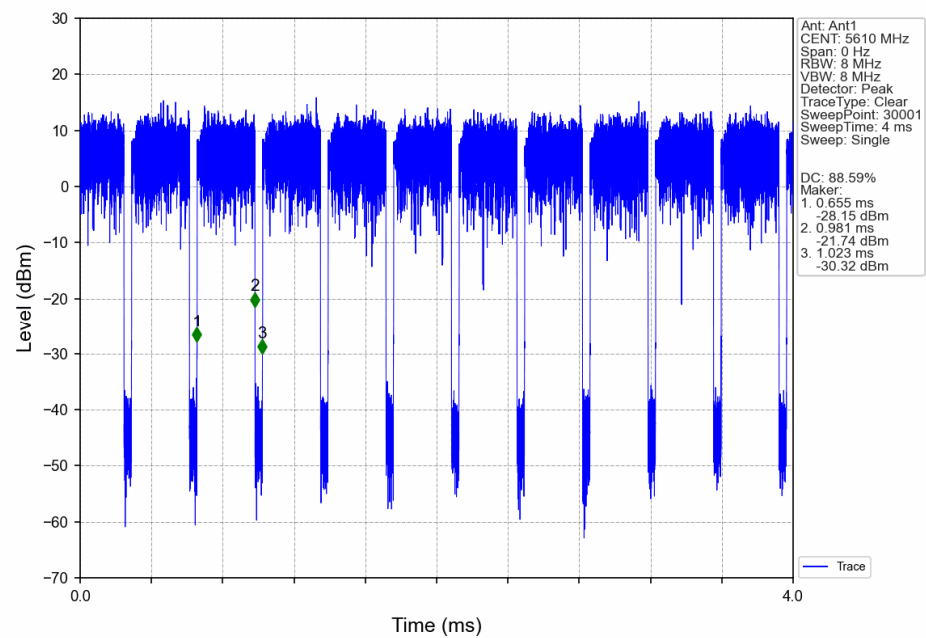
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



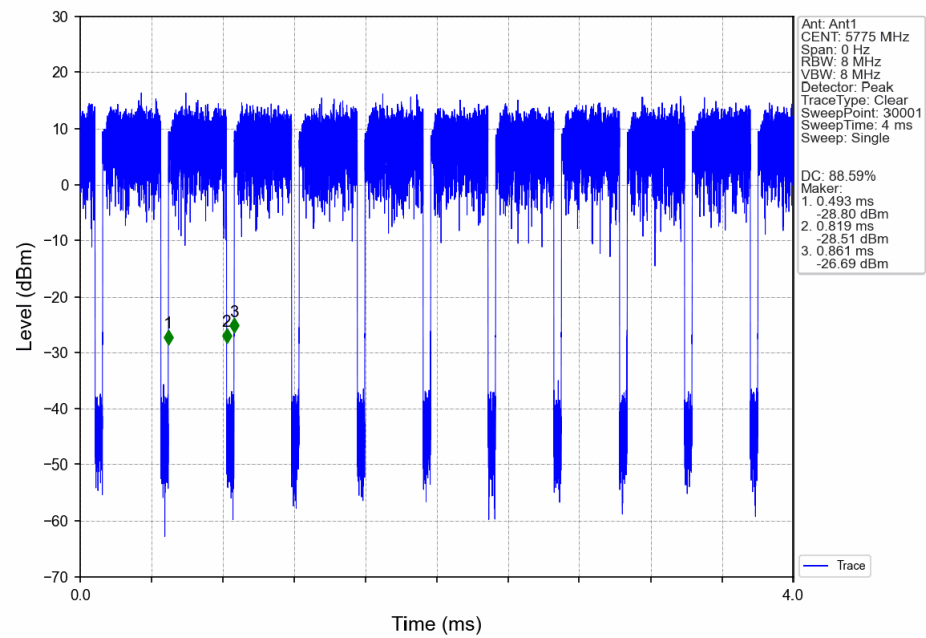
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



8 Conducted Emission

Test Requirement: FCC 47CFR Part 15 Section 15.207
Test Method: ANSI C63.10-2020
Test Result: PASS
Frequency Range: 150kHz to 30MHz
Limit:

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

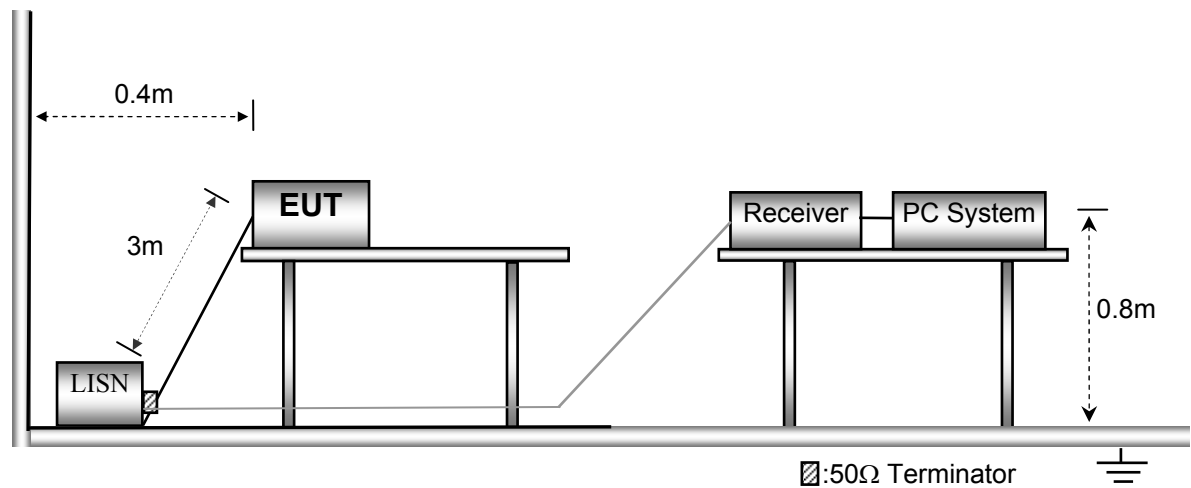
*Decreases with the logarithm of the frequency.

8.1 E.U.T. Operation

Operating Environment :
Temperature: 22.7 °C
Humidity: 60.5 % RH
Atmospheric Pressure: 101.2kPa
EUT Operation :
The test was performed in transmitting mode, the test data were shown in the report.

8.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020.



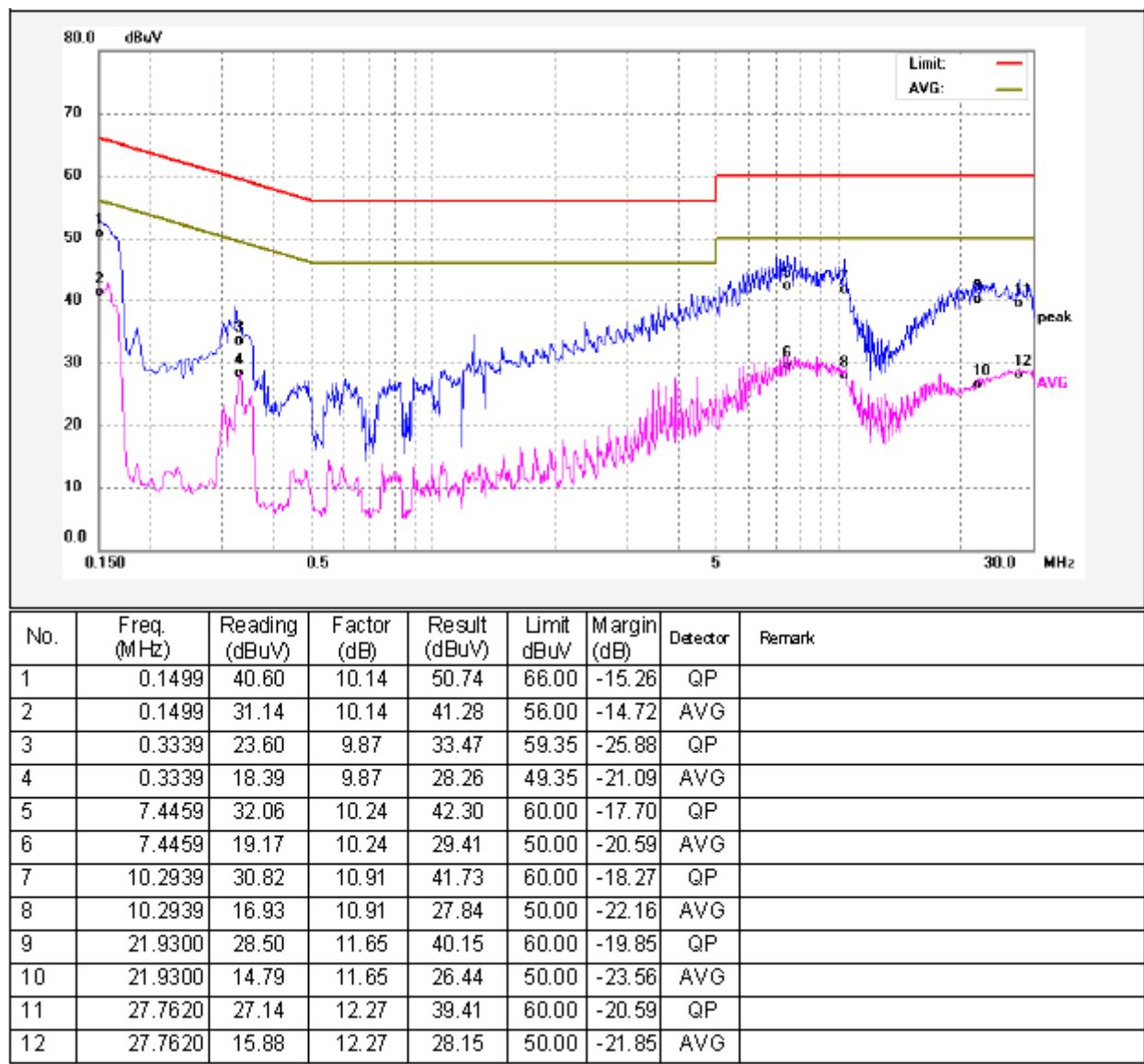
8.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

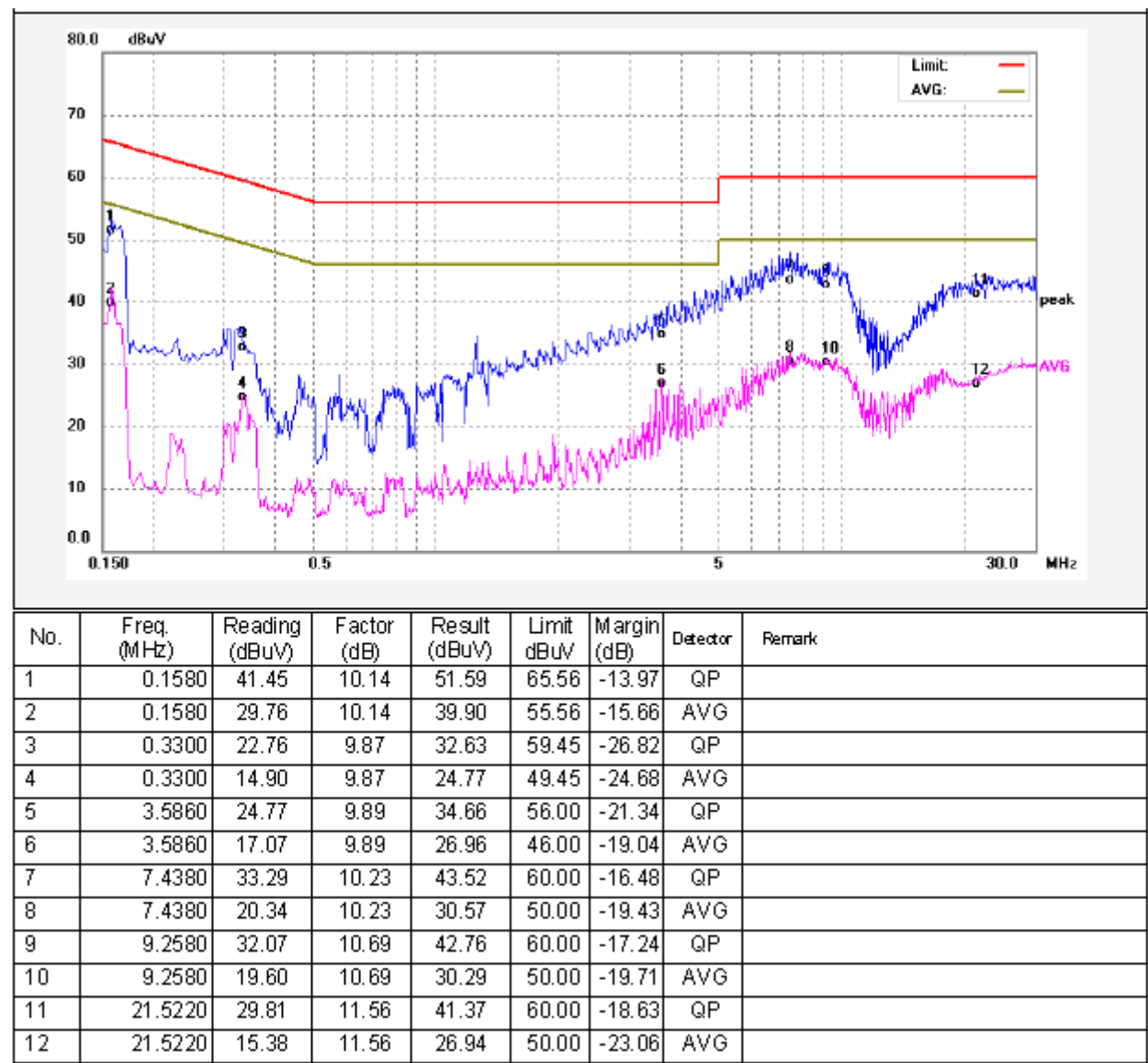
8.4 Conducted Emission Test Result

Remark: only the worst data (U-NII-1 802.11a High channel mode) were reported

Live line:



Neutral line:



9 Radiated Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.209 & 15.407

Test Method: ANSI C63.10-2020

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Distance	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

9.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

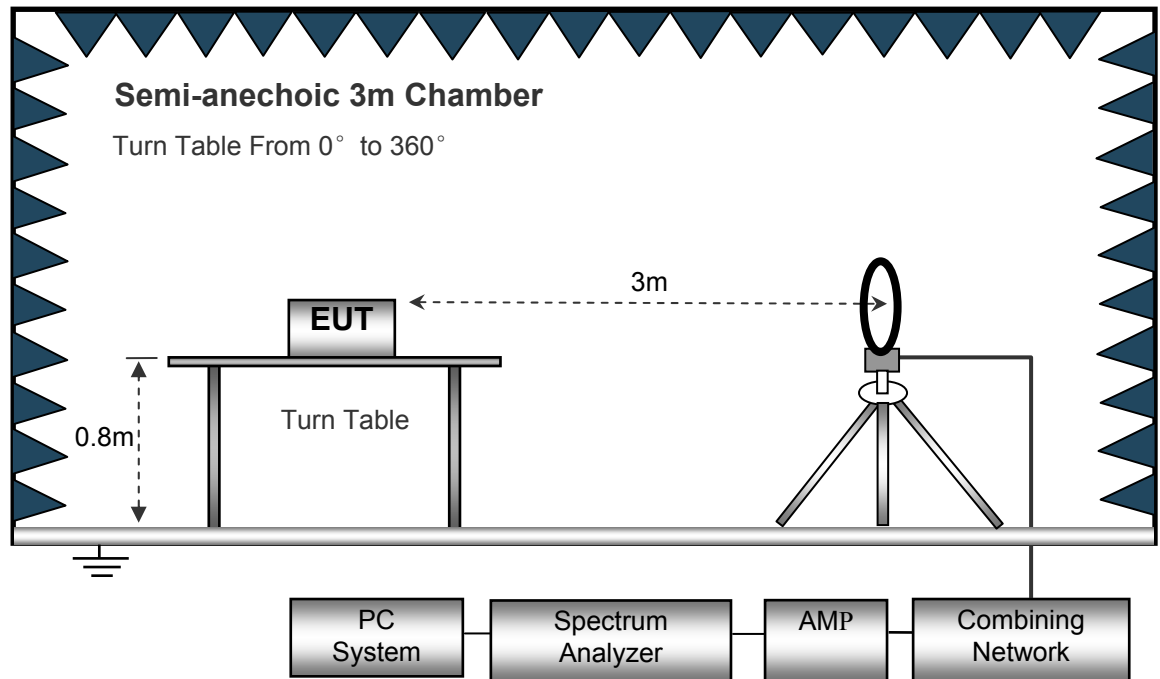
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

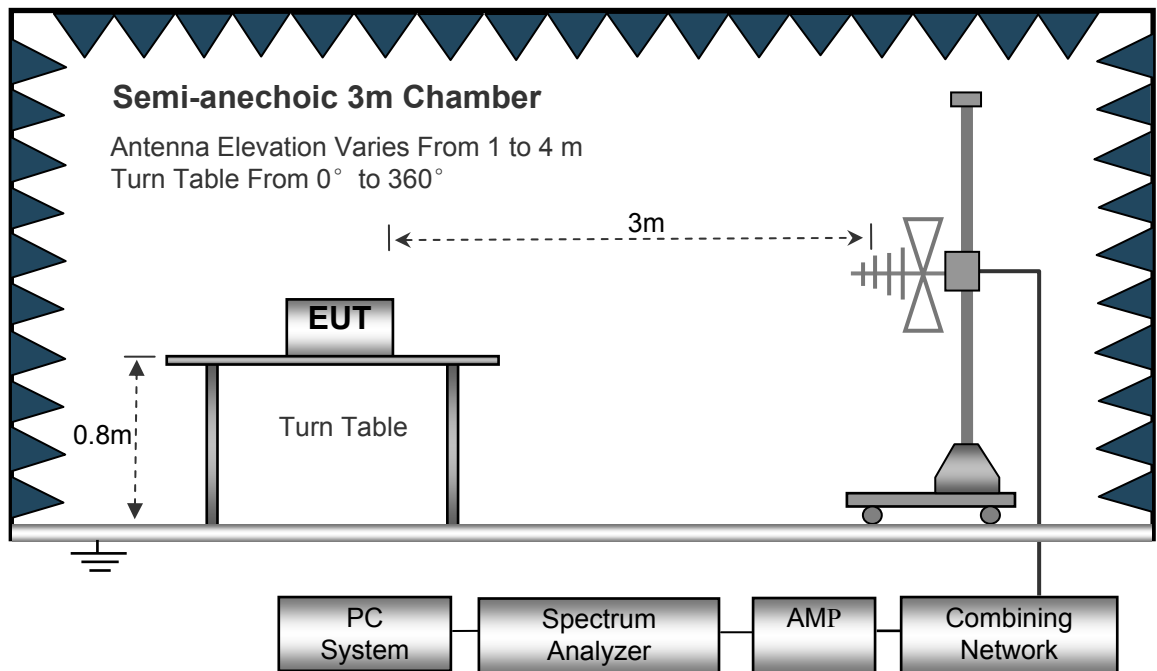
9.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10-2020.

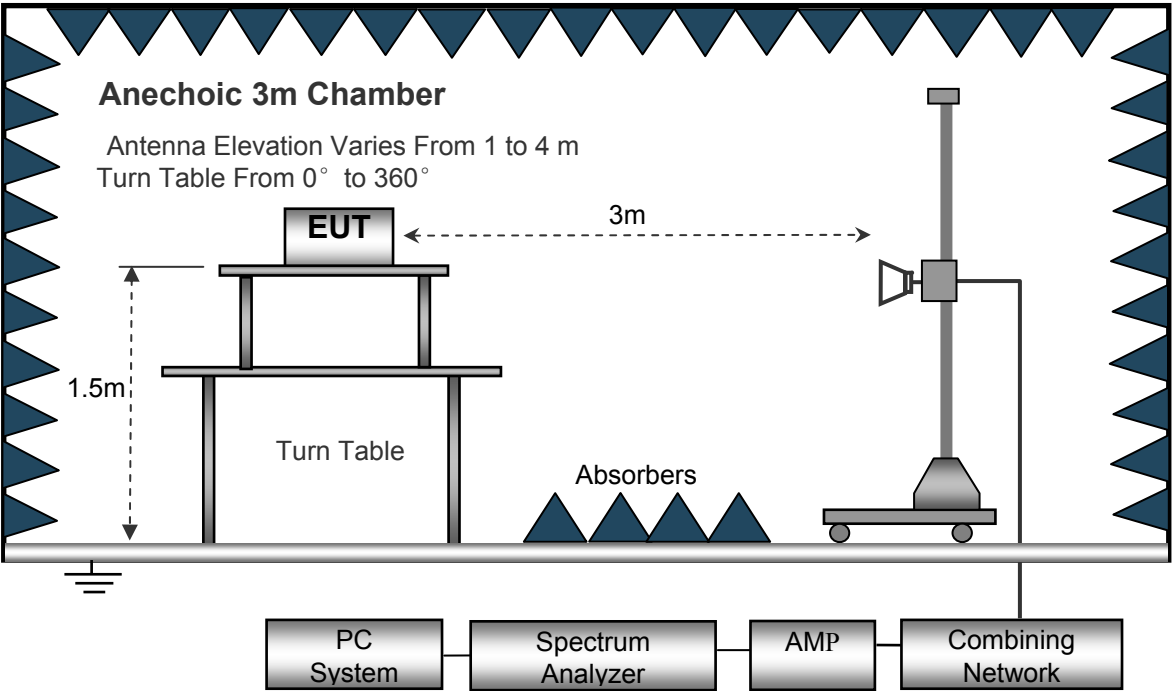
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



9.3 Spectrum Analyzer Setup

Below 30MHz	
Sweep Speed	Auto
IF Bandwidth.....	10kHz
Video Bandwidth.....	10kHz
Resolution Bandwidth.....	10kHz
30MHz ~ 1GHz	
Sweep Speed	Auto
Detector	PK
Resolution Bandwidth.....	100kHz
Video Bandwidth.....	300kHz
Above 1GHz	
Sweep Speed	Auto
Detector	PK
Resolution Bandwidth.....	1MHz
Video Bandwidth.....	3MHz
Detector	Ave.
Resolution Bandwidth.....	1MHz
Video Bandwidth.....	10Hz

9.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

9.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

9.6 Summary of Test Results

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 Low Channel 5180MHz									
128.22	40.84	QP	254	1.7	H	-11.62	29.22	43.52	-14.30
128.22	44.83	QP	93	1.5	V	-11.62	33.21	43.52	-10.31
4524.99	58.88	PK	77	1.5	H	-2.03	56.85	74.00	-17.15
4524.99	44.20	Ave	77	1.5	H	-2.03	42.17	54.00	-11.83
5110.15	48.77	PK	311	1.3	H	-1.02	47.75	74.00	-26.25
5110.15	40.05	Ave	311	1.3	H	-1.02	39.03	54.00	-14.97
10360.00	42.21	PK	86	1.9	H	5.33	47.54	74.00	-26.46
10360.00	29.93	Ave	86	1.9	H	5.33	35.26	54.00	-18.74
802.11a U-NII-1 Middle channel 5200MHz									
128.22	39.48	QP	192	1.2	H	-11.62	27.86	43.52	-15.66
128.22	44.18	QP	73	1.4	V	-11.62	32.56	43.52	-10.96
4528.36	58.09	PK	254	1.7	H	-1.94	56.15	74.00	-17.85
4528.36	43.38	Ave	254	1.7	H	-1.94	41.44	54.00	-12.56
5118.90	47.90	PK	12	1.2	H	-1.06	46.84	74.00	-27.16
5118.90	40.34	Ave	12	1.2	H	-1.06	39.28	54.00	-14.72
10400.00	41.90	PK	167	1.7	H	5.21	47.11	74.00	-26.89
10400.00	28.44	Ave	167	1.7	H	5.21	33.65	54.00	-20.35

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 High channel 5240MHz									
128.22	38.04	QP	158	1.4	H	-11.62	26.42	43.52	-17.10
128.22	43.91	QP	107	1.3	V	-11.62	32.29	43.52	-11.23
4514.50	56.83	PK	342	1.5	H	-2.24	54.59	74.00	-19.41
4514.50	42.45	Ave	342	1.5	H	-2.24	40.21	54.00	-13.79
5140.87	48.31	PK	258	1.8	H	-1.09	47.22	74.00	-26.78
5140.87	39.84	Ave	258	1.8	H	-1.09	38.75	54.00	-15.25
10480.00	41.93	PK	322	1.5	H	5.14	47.07	74.00	-26.93
10480.00	29.72	Ave	322	1.5	H	5.14	34.86	54.00	-19.14
802.11a U-NII-2A Low Channel 5260MHz									
128.22	40.92	QP	270	1.6	H	-11.62	29.30	43.50	-14.20
128.22	42.74	QP	349	1.0	V	-11.62	31.12	43.50	-12.38
4502.49	55.26	PK	45	2.0	H	-2.03	53.23	74.00	-20.77
4502.49	40.41	Ave	45	2.0	H	-2.03	38.38	54.00	-15.62
5148.93	52.92	PK	148	1.7	H	-1.02	51.90	74.00	-22.10
5148.93	38.56	Ave	148	1.7	H	-1.02	37.54	54.00	-16.46
10520.00	41.57	PK	130	1.4	H	5.33	46.90	74.00	-27.10
10520.00	32.99	Ave	130	1.4	H	5.33	38.32	54.00	-15.68

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2A middle channel 5280MHz									
128.22	39.51	QP	314	1.3	H	-11.62	27.89	43.50	-15.61
128.22	41.82	QP	119	1.3	V	-11.62	30.20	43.50	-13.30
4536.44	55.01	PK	182	1.7	H	-1.94	53.07	74.00	-20.93
4536.44	39.93	Ave	182	1.7	H	-1.94	37.99	54.00	-16.01
5131.93	53.23	PK	271	1.6	H	-1.06	52.17	74.00	-21.83
5131.93	38.03	Ave	271	1.6	H	-1.06	36.97	54.00	-17.03
10560.00	40.15	PK	24	1.5	H	5.21	45.36	74.00	-28.64
10560.00	32.17	Ave	24	1.5	H	5.21	37.38	54.00	-16.62
802.11a U-NII-2A High channel 5320MHz									
128.22	38.59	QP	197	1.8	H	-11.62	26.97	43.50	-16.53
128.22	41.77	QP	338	1.4	V	-11.62	30.15	43.50	-13.35
4515.12	53.59	PK	206	1.9	H	-2.24	51.35	74.00	-22.65
4515.12	39.27	Ave	206	1.9	H	-2.24	37.03	54.00	-16.97
5146.29	53.62	PK	255	1.9	H	-1.09	52.53	74.00	-21.47
5146.29	37.82	Ave	255	1.9	H	-1.09	36.73	54.00	-17.27
10640.00	40.81	PK	313	2.0	H	5.14	45.95	74.00	-28.05
10640.00	32.88	Ave	313	2.0	H	5.14	38.02	54.00	-15.98

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2C Low Channel 5500MHz									
128.22	41.56	QP	256	1.8	H	-11.62	29.94	43.50	-13.56
128.22	45.72	QP	272	1.8	V	-11.62	34.10	43.50	-9.40
4511.29	52.91	PK	279	1.2	H	-2.03	50.88	74.00	-23.12
4511.29	40.34	Ave	279	1.2	H	-2.03	38.31	54.00	-15.69
5146.56	53.26	PK	155	1.5	H	-1.02	52.24	74.00	-21.76
5146.56	38.37	Ave	155	1.5	H	-1.02	37.35	54.00	-16.65
11000.00	41.97	PK	316	1.5	H	5.33	47.30	74.00	-26.70
11000.00	37.12	Ave	316	1.5	H	5.33	42.45	54.00	-11.55
802.11a U-NII-2C Middle channel 5600MHz									
128.22	40.37	QP	204	1.9	H	-11.62	28.75	43.50	-14.75
128.22	45.31	QP	290	1.4	V	-11.62	33.69	43.50	-9.81
4530.14	52.09	PK	82	1.9	H	-1.94	50.15	74.00	-23.85
4530.14	40.27	Ave	82	1.9	H	-1.94	38.33	54.00	-15.67
5128.32	52.52	PK	341	1.5	H	-1.06	51.46	74.00	-22.54
5128.32	37.62	Ave	341	1.5	H	-1.06	36.56	54.00	-17.44
11200.00	41.69	PK	322	1.5	H	5.21	46.90	74.00	-27.10
11200.00	36.46	Ave	322	1.5	H	5.21	41.67	54.00	-12.33

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2C High channel 5700MHz									
128.22	40.19	QP	177	1.5	H	-11.62	28.57	43.50	-14.93
128.22	43.59	QP	29	1.6	V	-11.62	31.97	43.50	-11.53
4537.81	51.50	PK	193	1.3	H	-2.24	49.26	74.00	-24.74
4537.81	38.96	Ave	193	1.3	H	-2.24	36.72	54.00	-17.28
5137.46	52.99	PK	238	1.7	H	-1.09	51.90	74.00	-22.10
5137.46	37.84	Ave	238	1.7	H	-1.09	36.75	54.00	-17.25
11400.00	40.85	PK	140	1.4	H	5.14	45.99	74.00	-28.01
11400.00	36.21	Ave	140	1.4	H	5.14	41.35	54.00	-12.65
802.11a U-NII-3 Low Channel 5745MHz									
128.22	39.09	QP	240	1.4	H	-11.62	27.47	43.52	-16.05
128.22	40.13	QP	232	1.7	V	-11.62	28.51	43.52	-15.01
4536.68	55.84	PK	66	1.6	H	-2.06	53.78	74.00	-20.22
4536.68	41.21	Ave	66	1.6	H	-2.06	39.15	54.00	-14.85
5371.53	40.49	PK	336	1.0	H	5.93	46.42	74.00	-27.58
5371.53	28.86	Ave	336	1.0	H	5.93	34.79	54.00	-19.21
11490.00	46.42	PK	353	1.5	H	-1.25	45.17	74.00	-28.83
11490.00	38.40	Ave	353	1.5	H	-1.25	37.15	54.00	-16.85

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-3 middle channel 5785MHz									
128.22	38.26	QP	3	1.6	H	-11.62	26.64	43.52	-16.88
128.22	39.29	QP	53	1.9	V	-11.62	27.67	43.52	-15.85
4537.78	55.62	PK	321	1.5	H	-2.03	53.59	74.00	-20.41
4537.78	39.73	Ave	321	1.5	H	-2.03	37.70	54.00	-16.30
5363.67	40.10	PK	256	1.7	H	5.81	45.91	74.00	-28.09
5363.67	29.09	Ave	256	1.7	H	5.81	34.90	54.00	-19.10
11570.00	46.07	PK	245	1.1	H	-1.22	44.85	74.00	-29.15
11570.00	37.86	Ave	245	1.1	H	-1.22	36.64	54.00	-17.36
802.11a U-NII-3 High channel 5825MHz									
128.22	38.13	QP	164	1.0	H	-11.62	26.51	43.52	-17.01
128.22	38.56	QP	22	1.4	V	-11.62	26.94	43.52	-16.58
4537.30	54.44	PK	134	1.1	H	-1.84	52.60	74.00	-21.40
4537.30	38.67	Ave	134	1.1	H	-1.84	36.83	54.00	-17.17
5358.42	40.49	PK	114	1.1	H	5.84	46.33	74.00	-27.67
5358.42	29.20	Ave	114	1.1	H	5.84	35.04	54.00	-18.96
11650.00	45.20	PK	188	1.7	H	-1.30	43.90	74.00	-30.10
11650.00	38.14	Ave	188	1.7	H	-1.30	36.84	54.00	-17.16

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 Low Channel 5180MHz									
128.22	37.63	QP	181	1.5	H	-11.62	26.01	43.52	-17.51
128.22	37.20	QP	222	1.5	V	-11.62	25.58	43.52	-17.94
4529.07	53.80	PK	26	1.2	H	-2.14	51.66	74.00	-22.34
4529.07	38.06	Ave	26	1.2	H	-2.14	35.92	54.00	-18.08
5137.58	44.57	PK	320	1.9	H	-1.06	43.51	74.00	-30.49
5137.58	31.98	Ave	320	1.9	H	-1.06	30.92	54.00	-23.08
10360.00	40.29	PK	283	1.1	H	5.33	45.62	74.00	-28.38
10360.00	29.82	Ave	283	1.1	H	5.33	35.15	54.00	-18.85
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
128.22	37.35	QP	94	1.2	H	-11.62	25.73	43.52	-17.79
128.22	36.08	QP	19	1.7	V	-11.62	24.46	43.52	-19.06
4533.16	53.28	PK	150	1.5	H	-2.12	51.16	74.00	-22.84
4533.16	37.26	Ave	150	1.5	H	-2.12	35.14	54.00	-18.86
5132.01	44.80	PK	139	1.3	H	-1.06	43.74	74.00	-30.26
5132.01	33.62	Ave	139	1.3	H	-1.06	32.56	54.00	-21.44
10400.00	40.59	PK	195	1.8	H	5.21	45.80	74.00	-28.20
10400.00	29.63	Ave	195	1.8	H	5.21	34.84	54.00	-19.16

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 High channel 5240MHz									
128.22	36.94	QP	181	1.6	H	-11.62	25.32	43.52	-18.20
128.22	36.15	QP	158	1.9	V	-11.62	24.53	43.52	-18.99
4515.55	52.00	PK	47	1.8	H	-1.96	50.04	74.00	-23.96
4515.55	37.94	Ave	47	1.8	H	-1.96	35.98	54.00	-18.02
5119.96	43.87	PK	240	1.4	H	-1.06	42.81	74.00	-31.19
5119.96	33.02	Ave	240	1.4	H	-1.06	31.96	54.00	-22.04
10480.00	42.40	PK	244	1.4	H	5.14	47.54	74.00	-26.46
10480.00	29.71	Ave	244	1.4	H	5.14	34.85	54.00	-19.15
802.11n(HT20) U-NII-2A Low Channel 5260MHz									
128.22	40.23	QP	333	1.5	H	-11.62	28.61	43.50	-14.89
128.22	41.08	QP	214	1.5	V	-11.62	29.46	43.50	-14.04
4519.91	52.82	PK	264	2.0	H	-2.03	50.79	74.00	-23.21
4519.91	42.23	Ave	264	2.0	H	-2.03	40.20	54.00	-13.80
5119.11	50.05	PK	180	1.6	H	-1.02	49.03	74.00	-24.97
5119.11	34.17	Ave	180	1.6	H	-1.02	33.15	54.00	-20.85
10520.00	41.22	PK	179	1.1	H	5.33	46.55	74.00	-27.45
10520.00	31.96	Ave	179	1.1	H	5.33	37.29	54.00	-16.71

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2A middle channel 5280MHz									
128.22	39.39	QP	141	1.0	H	-11.62	27.77	43.50	-15.73
128.22	40.65	QP	249	1.1	V	-11.62	29.03	43.50	-14.47
4511.77	52.00	PK	104	1.6	H	-1.94	50.06	74.00	-23.94
4511.77	42.21	Ave	104	1.6	H	-1.94	40.27	54.00	-13.73
5130.50	50.38	PK	22	1.8	H	-1.06	49.32	74.00	-24.68
5130.50	34.54	Ave	22	1.8	H	-1.06	33.48	54.00	-20.52
10560.00	42.41	PK	176	1.4	H	5.21	47.62	74.00	-26.38
10560.00	32.52	Ave	176	1.4	H	5.21	37.73	54.00	-16.27
802.11n(HT20) U-NII-2A High channel 5320MHz									
128.22	37.90	QP	295	1.8	H	-11.62	26.28	43.50	-17.22
128.22	40.63	QP	14	1.4	V	-11.62	29.01	43.50	-14.49
4527.61	52.09	PK	199	1.9	H	-2.24	49.85	74.00	-24.15
4527.61	41.31	Ave	199	1.9	H	-2.24	39.07	54.00	-14.93
5119.96	51.25	PK	168	1.1	H	-1.09	50.16	74.00	-23.84
5119.96	35.64	Ave	168	1.1	H	-1.09	34.55	54.00	-19.45
10640.00	41.26	PK	266	2.0	H	5.14	46.40	74.00	-27.60
10640.00	32.77	Ave	266	2.0	H	5.14	37.91	54.00	-16.09

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2C Low Channel 5500MHz									
128.22	37.11	QP	295	1.5	H	-11.62	25.49	43.50	-18.01
128.22	40.37	QP	339	1.9	V	-11.62	28.75	43.50	-14.75
4534.19	51.52	PK	266	1.2	H	-2.03	49.49	74.00	-24.51
4534.19	31.69	Ave	266	1.2	H	-2.03	29.66	54.00	-24.34
5120.67	47.39	PK	303	1.6	H	-1.02	46.37	74.00	-27.63
5120.67	35.21	Ave	303	1.6	H	-1.02	34.19	54.00	-19.81
11000.00	48.09	PK	258	1.3	H	5.33	53.42	74.00	-20.58
11000.00	28.68	Ave	258	1.3	H	5.33	34.01	54.00	-19.99
802.11n(HT20) U-NII-2C Middle channel 5600MHz									
128.22	38.37	QP	343	1.4	H	-11.62	26.75	43.50	-16.75
128.22	41.07	QP	84	1.1	V	-11.62	29.45	43.50	-14.05
4508.56	51.01	PK	50	1.1	H	-1.94	49.07	74.00	-24.93
4508.56	32.89	Ave	50	1.1	H	-1.94	30.95	54.00	-23.05
5137.89	47.60	PK	3	1.0	H	-1.06	46.54	74.00	-27.46
5137.89	34.66	Ave	3	1.0	H	-1.06	33.60	54.00	-20.40
11200.00	48.54	PK	45	1.0	H	5.21	53.75	74.00	-20.25
11200.00	29.43	Ave	45	1.0	H	5.21	34.64	54.00	-19.36

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2C High channel 5700MHz									
128.22	37.10	QP	193	1.6	H	-11.62	25.48	43.50	-18.02
128.22	42.32	QP	95	1.1	V	-11.62	30.70	43.50	-12.80
4515.55	52.26	PK	16	1.5	H	-2.24	50.02	74.00	-23.98
4515.55	31.89	Ave	16	1.5	H	-2.24	29.65	54.00	-24.35
5122.56	48.57	PK	268	1.4	H	-1.09	47.48	74.00	-26.52
5122.56	36.09	Ave	268	1.4	H	-1.09	35.00	54.00	-19.00
11400.00	47.90	PK	146	1.3	H	5.14	53.04	74.00	-20.96
11400.00	28.03	Ave	146	1.3	H	5.14	33.17	54.00	-20.83
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
128.22	31.67	QP	290	1.8	H	-11.62	20.05	43.52	-23.47
128.22	37.19	QP	29	1.8	V	-11.62	25.57	43.52	-17.95
4516.52	57.14	PK	224	1.7	H	-2.06	55.08	74.00	-18.92
4516.52	43.54	Ave	224	1.7	H	-2.06	41.48	54.00	-12.52
5356.26	44.26	PK	354	1.8	H	5.93	50.19	74.00	-23.81
5356.26	34.26	Ave	354	1.8	H	5.93	40.19	54.00	-13.81
11490.00	45.06	PK	187	1.5	H	-1.25	43.81	74.00	-30.19
11490.00	39.33	Ave	187	1.5	H	-1.25	38.08	54.00	-15.92

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-3 middle channel 5785MHz									
128.22	31.67	QP	132	1.1	H	-11.62	20.05	43.52	-23.47
128.22	39.05	QP	198	1.8	V	-11.62	27.43	43.52	-16.09
4525.31	57.16	PK	29	1.5	H	-2.03	55.13	74.00	-18.87
4525.31	44.89	Ave	29	1.5	H	-2.03	42.86	54.00	-11.14
5355.43	51.17	PK	287	1.8	H	5.81	56.98	74.00	-17.02
5355.43	39.39	Ave	287	1.8	H	5.81	45.20	54.00	-8.80
11570.00	46.38	PK	11	1.1	H	-1.22	45.16	74.00	-28.84
11570.00	39.56	Ave	11	1.1	H	-1.22	38.34	54.00	-15.66
802.11n(HT20) U-NII-3 High channel 5825MHz									
128.22	30.85	QP	18	1.4	H	-11.62	19.23	43.52	-24.29
128.22	38.42	QP	89	1.2	V	-11.62	26.80	43.52	-16.72
4517.16	56.58	PK	104	1.2	H	-1.84	54.74	74.00	-19.26
4517.16	43.52	Ave	104	1.2	H	-1.84	41.68	54.00	-12.32
5362.33	48.91	PK	156	1.3	H	5.84	54.75	74.00	-19.25
5362.33	40.85	Ave	156	1.3	H	5.84	46.69	54.00	-7.31
11650.00	46.67	PK	129	1.9	H	-1.30	45.37	74.00	-28.63
11650.00	39.56	Ave	129	1.9	H	-1.30	38.26	54.00	-15.74

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-1 Low Channel 5180MHz									
128.22	29.62	QP	248	1.8	H	-11.62	18.00	43.52	-25.52
128.22	38.71	QP	207	1.7	V	-11.62	27.09	43.52	-16.43
4538.25	46.21	PK	190	1.7	H	-1.86	44.35	74.00	-29.65
4538.25	39.31	Ave	190	1.7	H	-1.86	37.45	54.00	-16.55
5141.08	38.42	PK	182	1.5	H	-1.06	37.36	74.00	-36.64
5141.08	35.50	Ave	182	1.5	H	-1.06	34.44	54.00	-19.56
10360.00	46.61	PK	223	1.7	H	5.33	51.94	74.00	-22.06
10360.00	38.06	Ave	223	1.7	H	5.33	43.39	54.00	-10.61
802.11ac(VHT20) U-NII-1 Middle channel 5200MHz									
128.22	28.74	QP	203	1.6	H	-11.62	17.12	43.52	-26.40
128.22	38.23	QP	315	1.8	V	-11.62	26.61	43.52	-16.91
4523.12	45.43	PK	141	1.2	H	-1.82	43.61	74.00	-30.39
4523.12	38.43	Ave	141	1.2	H	-1.82	36.61	54.00	-17.39
5148.21	39.48	PK	39	1.9	H	-1.06	38.42	74.00	-35.58
5148.21	35.81	Ave	39	1.9	H	-1.06	34.75	54.00	-19.25
10400.00	41.13	PK	227	1.8	H	5.21	46.34	74.00	-27.66
10400.00	29.07	Ave	227	1.8	H	5.21	34.28	54.00	-19.72

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-1 High channel 5240MHz									
128.22	28.93	QP	224	1.4	H	-11.62	17.31	43.52	-26.21
128.22	39.06	QP	287	1.4	V	-11.62	27.44	43.52	-16.08
4512.83	45.70	PK	20	1.8	H	-1.81	43.89	74.00	-30.11
4512.83	38.57	Ave	20	1.8	H	-1.81	36.76	54.00	-17.24
5131.35	39.31	PK	24	1.4	H	-1.06	38.25	74.00	-35.75
5131.35	35.02	Ave	24	1.4	H	-1.06	33.96	54.00	-20.04
10480.00	40.56	PK	276	1.4	H	5.14	45.70	74.00	-28.30
10480.00	30.55	Ave	276	1.4	H	5.14	35.69	54.00	-18.31
802.11ac(VHT20) U-NII-2A Low Channel 5260MHz									
128.22	39.42	QP	137	1.9	H	-11.62	27.80	43.50	-15.70
128.22	34.99	QP	320	1.0	V	-11.62	23.37	43.50	-20.13
4517.86	39.70	PK	343	1.7	H	-2.03	37.67	74.00	-36.33
4517.86	30.17	Ave	343	1.7	H	-2.03	28.14	54.00	-25.86
5143.82	47.15	PK	305	1.9	H	-1.02	46.13	74.00	-27.87
5143.82	34.46	Ave	305	1.9	H	-1.02	33.44	54.00	-20.56
10520.00	36.48	PK	16	1.0	H	5.33	41.81	74.00	-32.19
10520.00	36.86	Ave	16	1.0	H	5.33	42.19	54.00	-11.81

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-2A middle channel 5280MHz									
128.22	38.67	QP	346	1.6	H	-11.62	27.05	43.50	-16.45
128.22	33.64	QP	118	1.3	V	-11.62	22.02	43.50	-21.48
4518.18	38.70	PK	209	1.6	H	-1.94	36.76	74.00	-37.24
4518.18	29.59	Ave	209	1.6	H	-1.94	27.65	54.00	-26.35
5121.34	46.20	PK	35	1.4	H	-1.06	45.14	74.00	-28.86
5121.34	35.04	Ave	35	1.4	H	-1.06	33.98	54.00	-20.02
10560.00	35.59	PK	328	1.3	H	5.21	40.80	74.00	-33.20
10560.00	38.19	Ave	328	1.3	H	5.21	43.40	54.00	-10.60
802.11ac(VHT20) U-NII-2A High channel 5320MHz									
128.22	38.26	QP	193	1.1	H	-11.62	26.64	43.50	-16.86
128.22	33.62	QP	36	1.1	V	-11.62	22.00	43.50	-21.50
4513.47	39.03	PK	174	1.1	H	-2.24	36.79	74.00	-37.21
4513.47	29.26	Ave	174	1.1	H	-2.24	27.02	54.00	-26.98
5137.75	48.16	PK	236	2.0	H	-1.09	47.07	74.00	-26.93
5137.75	36.87	Ave	236	2.0	H	-1.09	35.78	54.00	-18.22
10640.00	37.65	PK	96	1.6	H	5.14	42.79	74.00	-31.21
10640.00	37.12	Ave	96	1.6	H	5.14	42.26	54.00	-11.74

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-2C Low Channel 5500MHz									
128.22	39.26	QP	357	1.2	H	-11.62	27.64	43.50	-15.86
128.22	39.46	QP	297	1.9	V	-11.62	27.84	43.50	-15.66
4518.27	33.49	PK	97	1.4	H	-2.03	31.46	74.00	-42.54
4518.27	43.71	Ave	97	1.4	H	-2.03	41.68	54.00	-12.32
5119.56	45.45	PK	233	1.2	H	-1.02	44.43	74.00	-29.57
5119.56	32.26	Ave	233	1.2	H	-1.02	31.24	54.00	-22.76
11000.00	38.63	PK	20	1.5	H	5.33	43.96	74.00	-30.04
11000.00	39.31	Ave	20	1.5	H	5.33	44.64	54.00	-9.36
802.11ac(VHT20) U-NII-2C Middle channel 5600MHz									
128.22	40.20	QP	156	1.6	H	-11.62	28.58	43.50	-14.92
128.22	39.77	QP	325	1.2	V	-11.62	28.15	43.50	-15.35
4519.68	34.59	PK	333	1.4	H	-1.94	32.65	74.00	-41.35
4519.68	44.60	Ave	333	1.4	H	-1.94	42.66	54.00	-11.34
5121.36	46.72	PK	6	1.2	H	-1.06	45.66	74.00	-28.34
5121.36	31.64	Ave	6	1.2	H	-1.06	30.58	54.00	-23.42
11200.00	37.20	PK	242	1.7	H	5.21	42.41	74.00	-31.59
11200.00	40.12	Ave	242	1.7	H	5.21	45.33	54.00	-8.67

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-2C High channel 5700MHz									
128.22	30.65	QP	70	1.9	H	-11.62	19.03	43.50	-24.47
128.22	41.98	QP	1	1.5	V	-11.62	30.36	43.50	-13.14
4510.95	36.89	PK	78	1.6	H	-2.24	34.65	74.00	-39.35
4510.95	42.04	Ave	78	1.6	H	-2.24	39.80	54.00	-14.20
5121.45	46.07	PK	323	1.8	H	-1.09	44.98	74.00	-29.02
5121.45	35.72	Ave	323	1.8	H	-1.09	34.63	54.00	-19.37
11400.00	30.81	PK	6	1.2	H	5.14	35.95	74.00	-38.05
11400.00	34.03	Ave	6	1.2	H	5.14	39.17	54.00	-14.83
802.11ac(VHT20) U-NII-3 Low Channel 5745MHz									
128.22	33.54	QP	76	1.5	H	-11.62	21.92	43.52	-21.60
128.22	43.17	QP	291	1.3	V	-11.62	31.55	43.52	-11.97
4530.96	45.26	PK	118	1.7	H	-1.92	43.34	74.00	-30.66
4530.96	33.38	Ave	118	1.7	H	-1.92	31.46	54.00	-22.54
5368.25	39.75	PK	194	1.6	H	5.93	45.68	74.00	-28.32
5368.25	26.92	Ave	194	1.6	H	5.93	32.85	54.00	-21.15
11490.00	45.92	PK	242	1.7	H	-1.03	44.89	74.00	-29.11
11490.00	38.73	Ave	242	1.7	H	-1.03	37.70	54.00	-16.30

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-3 middle channel 5785MHz									
128.22	34.19	QP	31	1.1	H	-11.62	22.57	43.52	-20.95
128.22	43.56	QP	225	1.1	V	-11.62	31.94	43.52	-11.58
4530.54	45.52	PK	194	1.7	H	-1.97	43.55	74.00	-30.45
4530.54	32.83	Ave	194	1.7	H	-1.97	30.86	54.00	-23.14
5379.93	41.11	PK	165	1.1	H	5.81	46.92	74.00	-27.08
5379.93	28.10	Ave	165	1.1	H	5.81	33.91	54.00	-20.09
11570.00	46.25	PK	191	1.5	H	-1.05	45.20	74.00	-28.80
11570.00	39.98	Ave	191	1.5	H	-1.05	38.93	54.00	-15.07
802.11ac(VHT20) U-NII-3 High channel 5825MHz									
128.22	34.09	QP	80	1.2	H	-11.62	22.47	43.52	-21.05
128.22	42.94	QP	88	1.9	V	-11.62	31.32	43.52	-12.20
4516.14	44.91	PK	184	1.5	H	-1.88	43.03	74.00	-30.97
4516.14	32.30	Ave	184	1.5	H	-1.88	30.42	54.00	-23.58
5358.36	41.73	PK	345	1.1	H	5.84	47.57	74.00	-26.43
5358.36	28.69	Ave	345	1.1	H	5.84	34.53	54.00	-19.47
11650.00	45.34	PK	82	1.6	H	-1.06	44.28	74.00	-29.72
11650.00	39.67	Ave	82	1.6	H	-1.06	38.61	54.00	-15.39

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-1 Low Channel 5190MHz									
128.22	35.09	QP	215	2.0	H	-11.62	23.47	43.50	-20.03
128.22	41.50	QP	191	1.2	V	-11.62	29.88	43.50	-13.62
4516.22	54.41	PK	230	2.0	H	-1.89	52.52	74.00	-21.48
4516.22	36.80	Ave	230	2.0	H	-1.89	34.91	54.00	-19.09
5125.64	46.53	PK	316	1.2	H	-1.06	45.47	74.00	-28.53
5125.64	32.81	Ave	316	1.2	H	-1.06	31.75	54.00	-22.25
10380.00	39.20	PK	56	1.2	H	5.26	44.46	74.00	-29.54
10380.00	26.81	Ave	56	1.2	H	5.26	32.07	54.00	-21.93
802.11n(HT40) U-NII-1 High channel 5230MHz									
128.22	34.23	QP	118	1.7	H	-11.62	22.61	43.50	-20.89
128.22	41.77	QP	186	1.6	V	-11.62	30.15	43.50	-13.35
4535.34	54.61	PK	85	1.7	H	-1.94	52.67	74.00	-21.33
4535.34	36.86	Ave	85	1.7	H	-1.94	34.92	54.00	-19.08
5123.05	47.31	PK	251	1.2	H	-1.06	46.25	74.00	-27.75
5123.05	34.09	Ave	251	1.2	H	-1.06	33.03	54.00	-20.97
10460.00	40.81	PK	331	1.1	H	5.28	46.09	74.00	-27.91
10460.00	28.35	Ave	331	1.1	H	5.28	33.63	54.00	-20.37

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-2A Low Channel 5270MHz									
128.22	33.51	QP	174	1.5	H	-11.62	21.89	43.50	-21.61
128.22	41.08	QP	189	1.3	V	-11.62	29.46	43.50	-14.04
4511.43	51.59	PK	249	1.4	H	-1.89	49.70	74.00	-24.30
4511.43	39.00	Ave	249	1.4	H	-1.89	37.11	54.00	-16.89
5110.38	45.52	PK	215	1.5	H	-1.06	44.46	74.00	-29.54
5110.38	34.55	Ave	215	1.5	H	-1.06	33.49	54.00	-20.51
10540.00	45.62	PK	10	1.8	H	5.26	50.88	74.00	-23.12
10540.00	33.92	Ave	10	1.8	H	5.26	39.18	54.00	-14.82
802.11n(HT40) U-NII-2A High channel 5310MHz									
128.22	33.12	QP	262	1.6	H	-11.62	21.50	43.50	-22.00
128.22	40.47	QP	283	1.1	V	-11.62	28.85	43.50	-14.65
4537.71	51.20	PK	125	1.2	H	-1.94	49.26	74.00	-24.74
4537.71	38.85	Ave	125	1.2	H	-1.94	36.91	54.00	-17.09
5138.53	44.75	PK	189	1.2	H	-1.06	43.69	74.00	-30.31
5138.53	35.31	Ave	189	1.2	H	-1.06	34.25	54.00	-19.75
10620.00	42.18	PK	269	1.9	H	5.28	47.46	74.00	-26.54
10620.00	28.69	Ave	269	1.9	H	5.28	33.97	54.00	-20.03

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-2C Low Channel 5510MHz									
128.22	33.42	QP	108	1.1	H	-11.62	21.80	43.50	-21.70
128.22	40.80	QP	283	1.9	V	-11.62	29.18	43.50	-14.32
4538.83	51.40	PK	37	1.4	H	-1.89	49.51	74.00	-24.49
4538.83	36.88	Ave	37	1.4	H	-1.89	34.99	54.00	-19.01
5121.61	54.46	PK	81	1.9	H	-1.06	53.40	74.00	-20.60
5121.61	35.68	Ave	81	1.9	H	-1.06	34.62	54.00	-19.38
11020.00	44.83	PK	28	1.0	H	5.26	50.09	74.00	-23.91
11020.00	31.78	Ave	28	1.0	H	5.26	37.04	54.00	-16.96
802.11n(HT40) U-NII-2C Middle channel 5550MHz									
128.22	32.95	QP	79	1.6	H	-11.62	21.33	43.50	-22.17
128.22	40.70	QP	29	1.9	V	-11.62	29.08	43.50	-14.42
4515.09	50.71	PK	273	1.1	H	-1.94	48.77	74.00	-25.23
4515.09	37.47	Ave	273	1.1	H	-1.94	35.53	54.00	-18.47
5111.87	56.05	PK	27	1.8	H	-1.06	54.99	74.00	-19.01
5111.87	35.96	Ave	27	1.8	H	-1.06	34.90	54.00	-19.10
11100.00	46.12	PK	327	1.8	H	5.28	51.40	74.00	-22.60
11100.00	33.99	Ave	327	1.8	H	5.28	39.27	54.00	-14.73
802.11n(HT40) U-NII-2C High channel 5670MHz									
128.22	33.44	QP	176	2.0	H	-11.62	21.82	43.50	-21.68
128.22	39.95	QP	212	1.5	V	-11.62	28.33	43.50	-15.17
4519.37	50.01	PK	67	1.1	H	-1.94	48.07	74.00	-25.93
4519.37	37.78	Ave	67	1.1	H	-1.94	35.84	54.00	-18.16
5147.19	57.83	PK	133	1.8	H	-1.06	56.77	74.00	-17.23
5147.19	36.80	Ave	133	1.8	H	-1.06	35.74	54.00	-18.26
11340.00	40.41	PK	56	2.0	H	5.28	45.69	74.00	-28.31
11340.00	32.91	Ave	56	2.0	H	5.28	38.19	54.00	-15.81

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-3 Low Channel 5755MHz									
128.22	35.68	QP	109	2.0	H	-11.62	24.06	43.50	-19.44
128.22	42.12	QP	70	1.6	V	-11.62	30.50	43.50	-13.00
4510.26	52.47	PK	55	1.5	H	-1.96	50.51	74.00	-23.49
4510.26	34.17	Ave	55	1.5	H	-1.96	32.21	54.00	-21.79
5376.05	40.30	PK	99	1.2	H	5.88	46.18	74.00	-27.82
5376.05	27.05	Ave	99	1.2	H	5.88	32.93	54.00	-21.07
11510.00	45.80	PK	316	1.2	H	-1.01	44.79	74.00	-29.21
11510.00	39.56	Ave	316	1.2	H	-1.01	38.55	54.00	-15.45
802.11n(HT40) U-NII-3 High Channel 5795MHz									
128.22	35.40	QP	305	1.0	H	-11.62	23.78	43.50	-19.72
128.22	42.43	QP	219	1.5	V	-11.62	30.81	43.50	-12.69
4506.93	51.48	PK	223	1.8	H	-1.92	49.56	74.00	-24.44
4506.93	33.85	Ave	223	1.8	H	-1.92	31.93	54.00	-22.07
5360.15	41.51	PK	286	1.4	H	5.63	47.14	74.00	-26.86
5360.15	28.13	Ave	286	1.4	H	5.63	33.76	54.00	-20.24
11590.00	45.54	PK	214	1.5	H	-1.04	44.50	74.00	-29.50
11590.00	37.31	Ave	214	1.5	H	-1.04	36.27	54.00	-17.73

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-1 Low Channel 5190MHz									
128.22	34.14	QP	247	1.5	H	-11.62	22.52	43.50	-20.98
128.22	42.83	QP	284	1.0	V	-11.62	31.21	43.50	-12.29
4538.16	49.55	PK	314	2.0	H	-1.91	47.64	74.00	-26.36
4538.16	31.27	Ave	314	2.0	H	-1.91	29.36	54.00	-24.64
5125.81	46.73	PK	6	1.2	H	-1.06	45.67	74.00	-28.33
5125.81	35.88	Ave	6	1.2	H	-1.06	34.82	54.00	-19.18
10380.00	39.31	PK	53	1.5	H	5.26	44.57	74.00	-29.43
10380.00	26.13	Ave	53	1.5	H	5.26	31.39	54.00	-22.61
802.11ac(VHT40) U-NII-1 High channel 5230MHz									
128.22	33.22	QP	342	1.4	H	-11.62	21.60	43.50	-21.90
128.22	42.60	QP	207	1.6	V	-11.62	30.98	43.50	-12.52
4519.03	48.70	PK	92	1.2	H	-1.93	46.77	74.00	-27.23
4519.03	31.37	Ave	92	1.2	H	-1.93	29.44	54.00	-24.56
5149.00	47.54	PK	129	1.9	H	-1.06	46.48	74.00	-27.52
5149.00	36.40	Ave	129	1.9	H	-1.06	35.34	54.00	-18.66
10460.00	40.69	PK	264	1.9	H	5.28	45.97	74.00	-28.03
10460.00	28.22	Ave	264	1.9	H	5.28	33.50	54.00	-20.50

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-2A Low Channel 5270MHz									
128.22	33.52	QP	119	1.9	H	-11.62	21.90	43.50	-21.60
128.22	36.37	QP	141	1.4	V	-11.62	24.75	43.50	-18.75
4508.91	40.11	PK	318	1.6	H	-1.89	38.22	74.00	-35.78
4508.91	28.98	Ave	318	1.6	H	-1.89	27.09	54.00	-26.91
5114.27	45.52	PK	56	1.7	H	-1.06	44.46	74.00	-29.54
5114.27	34.87	Ave	56	1.7	H	-1.06	33.81	54.00	-20.19
10540.00	41.05	PK	38	1.6	H	5.26	46.31	74.00	-27.69
10540.00	31.69	Ave	38	1.6	H	5.26	36.95	54.00	-17.05
802.11ac(VHT40) U-NII-2A High channel 5310MHz									
128.22	32.88	QP	83	1.3	H	-11.62	21.26	43.50	-22.24
128.22	35.80	QP	58	1.3	V	-11.62	24.18	43.50	-19.32
4510.80	40.00	PK	224	1.1	H	-1.94	38.06	74.00	-35.94
4510.80	28.39	Ave	224	1.1	H	-1.94	26.45	54.00	-27.55
5149.25	45.12	PK	226	1.3	H	-1.06	44.06	74.00	-29.94
5149.25	34.05	Ave	226	1.3	H	-1.06	32.99	54.00	-21.01
10620.00	40.94	PK	0	1.1	H	5.28	46.22	74.00	-27.78
10620.00	38.27	Ave	0	1.1	H	5.28	43.55	54.00	-10.45

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-2C Low Channel 5510MHz									
128.22	32.86	QP	125	1.7	H	-11.62	21.24	43.50	-22.26
128.22	33.84	QP	227	1.8	V	-11.62	22.22	43.50	-21.28
4537.58	40.08	PK	168	1.5	H	-1.89	38.19	74.00	-35.81
4537.58	37.92	Ave	168	1.5	H	-1.89	36.03	54.00	-17.97
5136.34	47.55	PK	84	1.6	H	-1.06	46.49	74.00	-27.51
5136.34	36.04	Ave	84	1.6	H	-1.06	34.98	54.00	-19.02
11020.00	39.18	PK	79	1.2	H	5.26	44.44	74.00	-29.56
11020.00	37.91	Ave	79	1.2	H	5.26	43.17	54.00	-10.83
802.11ac(VHT40) U-NII-2C Middle channel 5550MHz									
128.22	33.38	QP	249	1.7	H	-11.62	21.76	43.50	-21.74
128.22	33.70	QP	85	1.8	V	-11.62	22.08	43.50	-21.42
4532.58	40.94	PK	174	1.2	H	-1.94	39.00	74.00	-35.00
4532.58	37.77	Ave	174	1.2	H	-1.94	35.83	54.00	-18.17
5148.85	48.96	PK	260	1.5	H	-1.06	47.90	74.00	-26.10
5148.85	36.44	Ave	260	1.5	H	-1.06	35.38	54.00	-18.62
11100.00	39.35	PK	202	1.0	H	5.28	44.63	74.00	-29.37
11100.00	38.60	Ave	202	1.0	H	5.28	43.88	54.00	-10.12
802.11ac(VHT40) U-NII-2C High channel 5670MHz									
128.22	32.79	QP	324	1.8	H	-11.62	21.17	43.50	-22.33
128.22	33.24	QP	344	1.3	V	-11.62	21.62	43.50	-21.88
4514.78	41.82	PK	287	1.2	H	-1.94	39.88	74.00	-34.12
4514.78	37.57	Ave	287	1.2	H	-1.94	35.63	54.00	-18.37
5117.58	49.58	PK	338	1.4	H	-1.06	48.52	74.00	-25.48
5117.58	37.14	Ave	338	1.4	H	-1.06	36.08	54.00	-17.92
11340.00	38.66	PK	37	1.6	H	5.28	43.94	74.00	-30.06
11340.00	34.86	Ave	37	1.6	H	5.28	40.14	54.00	-13.86

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-3 Low Channel 5755MHz									
128.22	32.08	QP	257	1.1	H	-11.62	20.46	43.50	-23.04
128.22	43.76	QP	355	1.8	V	-11.62	32.14	43.50	-11.36
4523.96	46.07	PK	349	1.9	H	-1.92	44.15	74.00	-29.85
4523.96	28.77	Ave	349	1.9	H	-1.92	26.85	54.00	-27.15
5360.33	40.06	PK	340	1.3	H	5.88	45.94	74.00	-28.06
5360.33	27.13	Ave	340	1.3	H	5.88	33.01	54.00	-20.99
11510.00	45.34	PK	35	1.7	H	-1.07	44.27	74.00	-29.73
11510.00	39.83	Ave	35	1.7	H	-1.07	38.76	54.00	-15.24
802.11ac(VHT40) U-NII-3 High Channel 5795MHz									
128.22	31.38	QP	296	1.7	H	-11.62	19.76	43.50	-23.74
128.22	44.02	QP	281	1.6	V	-11.62	32.40	43.50	-11.10
4538.80	46.25	PK	51	1.5	H	-1.86	44.39	74.00	-29.61
4538.80	29.31	Ave	51	1.5	H	-1.86	27.45	54.00	-26.55
5379.83	40.70	PK	145	1.2	H	5.63	46.33	74.00	-27.67
5379.83	28.47	Ave	145	1.2	H	5.63	34.10	54.00	-19.90
11590.00	45.46	PK	226	1.9	H	-1.03	44.43	74.00	-29.57
11590.00	39.47	Ave	226	1.9	H	-1.03	38.44	54.00	-15.56

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT80) U-NII-1 Low Channel 5210MHz									
128.22	33.24	QP	93	1.3	H	-11.62	21.62	43.50	-21.88
128.22	44.60	QP	197	1.7	V	-11.62	32.98	43.50	-10.52
4520.66	37.53	PK	89	1.1	H	-1.88	35.65	74.00	-38.35
4520.66	41.62	Ave	89	1.1	H	-1.88	39.74	54.00	-14.26
5139.48	30.82	PK	170	1.1	H	-1.06	29.76	74.00	-44.24
5139.48	45.77	Ave	170	1.1	H	-1.06	44.71	54.00	-9.29
10420.00	41.51	PK	198	1.6	H	4.65	46.16	74.00	-27.84
10420.00	28.96	Ave	198	1.6	H	4.65	33.61	54.00	-20.39
802.11ac(VHT80) U-NII-2A Low Channel 5290MHz									
128.22	33.31	QP	143	1.2	H	-11.62	21.69	43.50	-21.81
128.22	39.51	QP	345	1.1	V	-11.62	27.89	43.50	-15.61
4522.41	40.81	PK	284	1.2	H	-1.88	38.93	74.00	-35.07
4522.41	30.23	Ave	284	1.2	H	-1.88	28.35	54.00	-25.65
5129.53	45.91	PK	275	1.6	H	-1.06	44.85	74.00	-29.15
5129.53	41.02	Ave	275	1.6	H	-1.06	39.96	54.00	-14.04
10580.00	29.81	PK	139	1.6	H	4.65	34.46	74.00	-39.54
10580.00	28.39	Ave	139	1.6	H	4.65	33.04	54.00	-20.96

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT80) U-NII-2C Low Channel 5530MHz									
128.22	39.20	QP	350	1.1	H	-11.62	27.58	43.50	-15.92
128.22	40.41	QP	291	1.6	V	-11.62	28.79	43.50	-14.71
4538.40	29.57	PK	99	1.8	H	-1.88	27.69	74.00	-46.31
4538.40	45.07	Ave	99	1.8	H	-1.88	43.19	54.00	-10.81
5144.42	42.15	PK	272	1.6	H	-1.06	41.09	74.00	-32.91
5144.42	30.12	Ave	272	1.6	H	-1.06	29.06	54.00	-24.94
11060.00	45.67	PK	42	1.4	H	4.65	50.32	74.00	-23.68
11060.00	31.69	Ave	42	1.4	H	4.65	36.34	54.00	-17.66
802.11ac(VHT80) U-NII-3 Low channel 5775MHz									
128.22	38.40	QP	81	1.5	H	-11.62	26.78	43.50	-16.72
128.22	40.75	QP	175	1.1	V	-11.62	29.13	43.50	-14.37
4500.03	42.50	PK	113	1.1	H	-1.85	40.65	74.00	-33.35
4500.03	41.86	Ave	113	1.1	H	-1.85	40.01	54.00	-13.99
5381.62	41.21	PK	219	1.7	H	4.83	46.04	74.00	-27.96
5381.62	30.73	Ave	219	1.7	H	4.83	35.56	54.00	-18.44
11550.00	45.00	PK	12	1.7	H	-1.14	43.86	74.00	-30.14
11550.00	39.78	Ave	12	1.7	H	-1.14	38.64	54.00	-15.36

Test Frequency: 12GHz~40GHz

The measurements were more than 20 dB below the limit and not reported.

10 Band Edge

Test Requirement:	FCC 47CFR Part 15 Section 15.407
Test Method:	ANSI C63.10-2020
Test Limit:	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 -27dBm/MHz. 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. 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. 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. (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
Test Result:	PASS

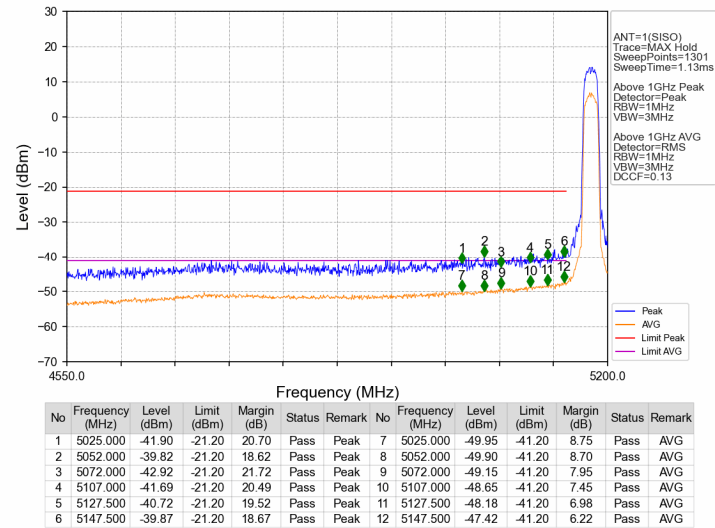
10.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 1MHz and VBW to 3MHz.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

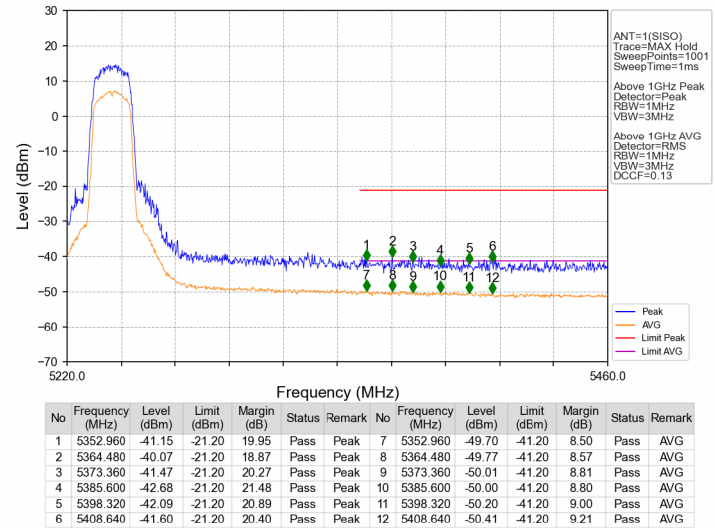
10.2 Test Result

Test result plots shown as follows:

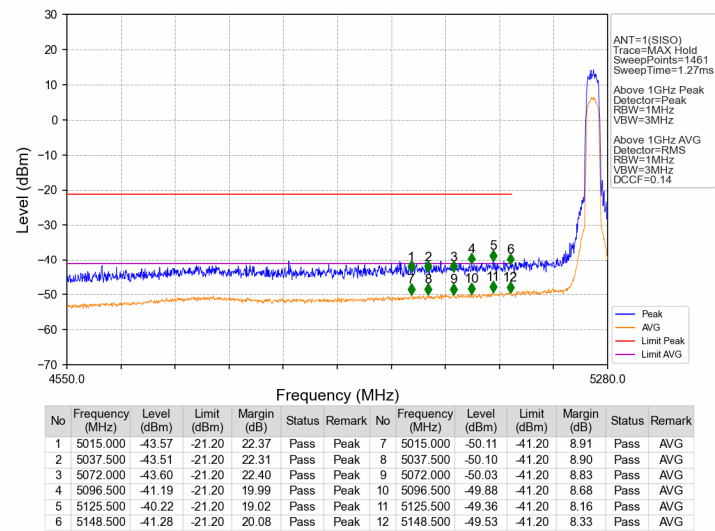
802.11a U-NII-1 Band edge-left side



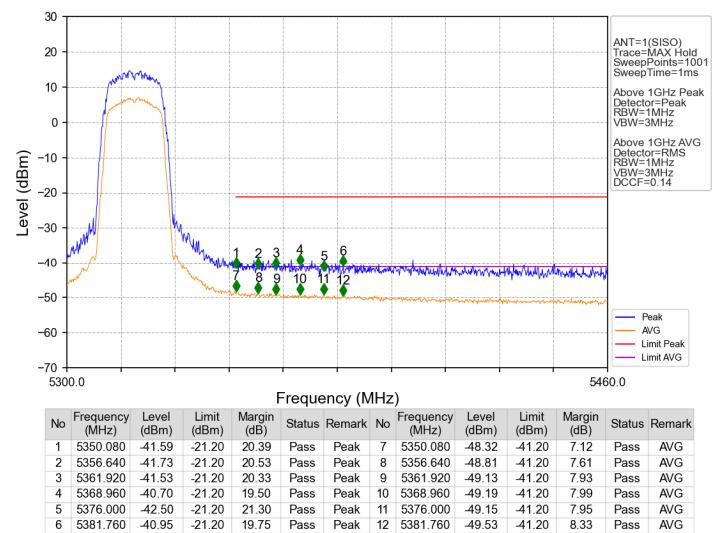
802.11a U-NII-1 Band edge-right side



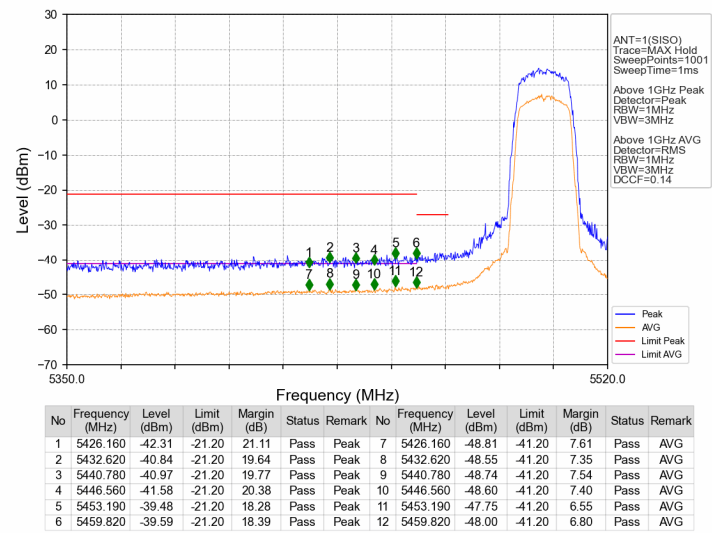
802.11a U-NII-2A Band edge-left side



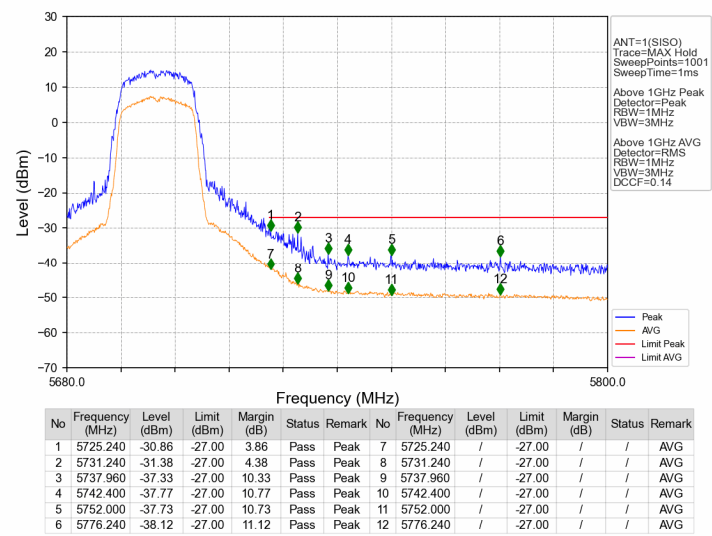
802.11a U-NII-2A Band edge-right side



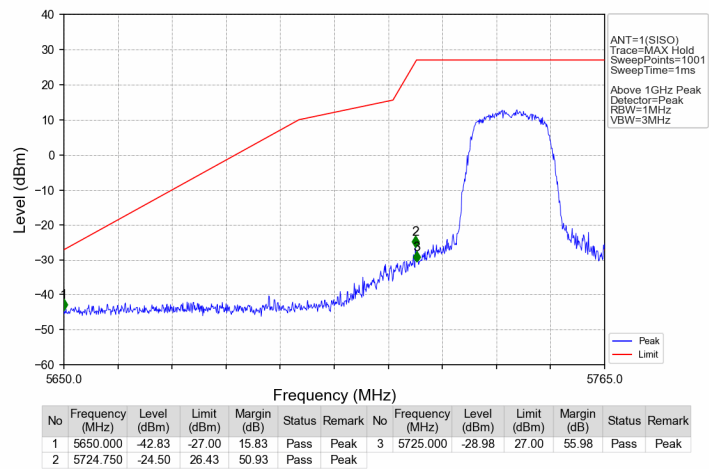
802.11a U-NII-2C Band edge-left side



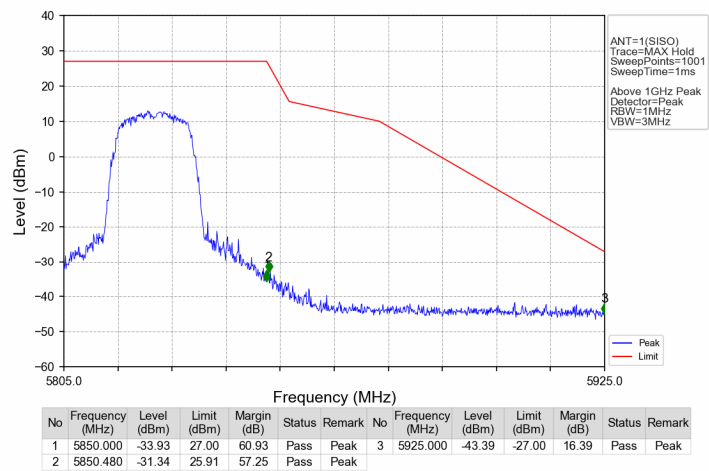
802.11a U-NII-2C Band edge-right side



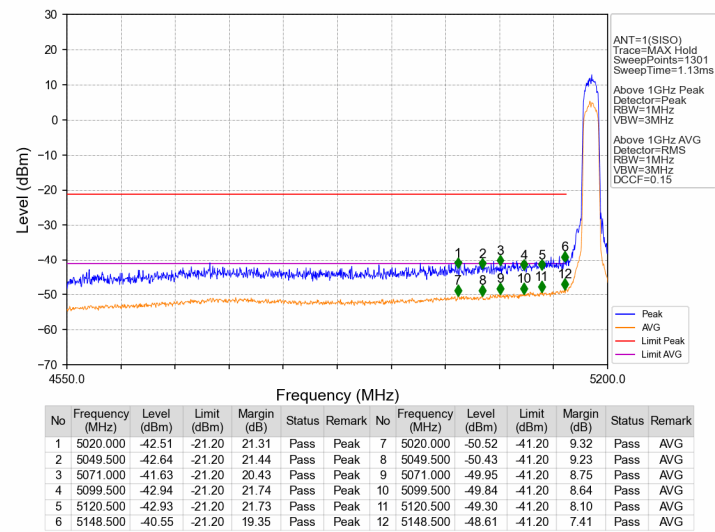
802.11a U-NII-3 Band edge-left side



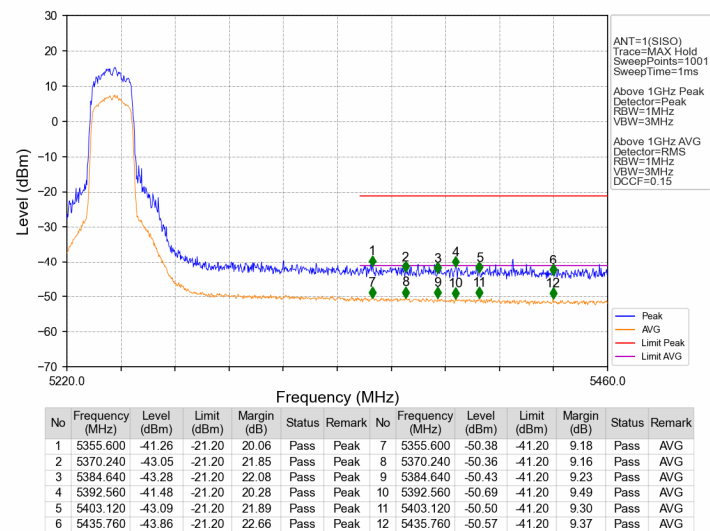
802.11a U-NII-3 Band edge-right side



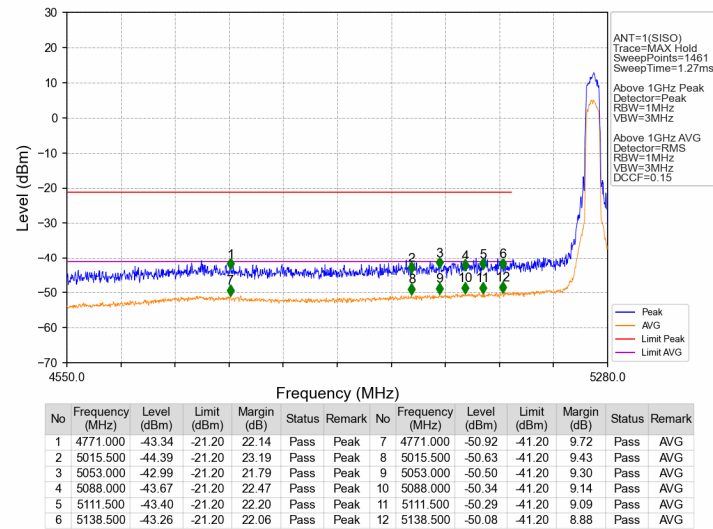
802.11n(HT20) U-NII-1 Band edge-left side



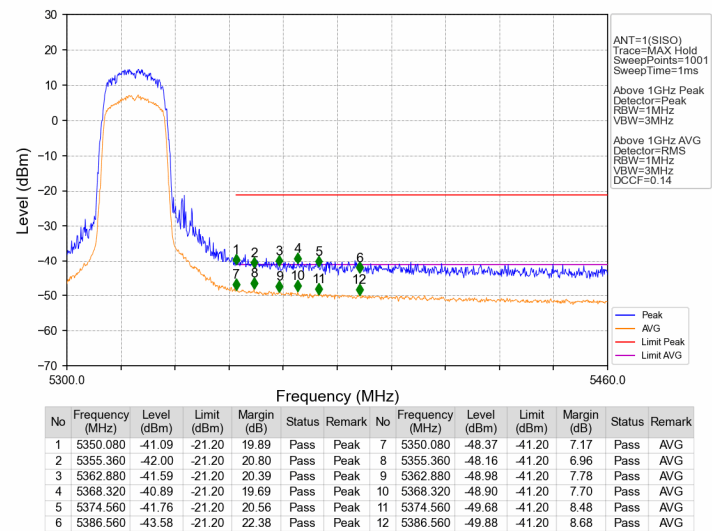
802.11n(HT20) U-NII-1 Band edge-right side



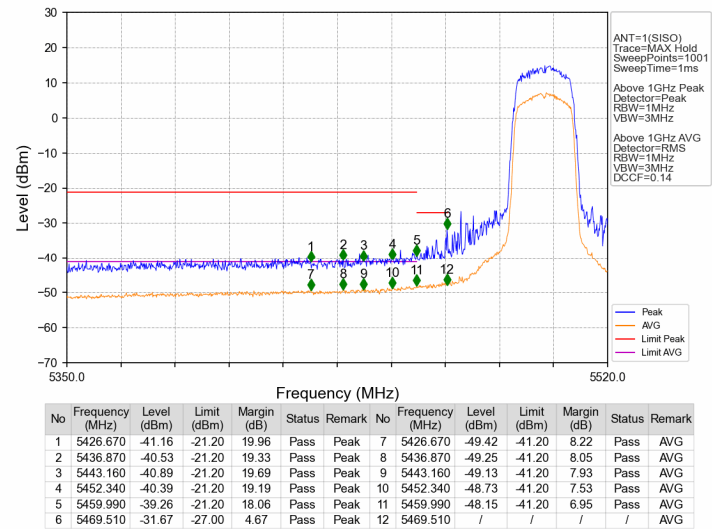
802.11n(HT20) U-NII-2A Band edge-left side



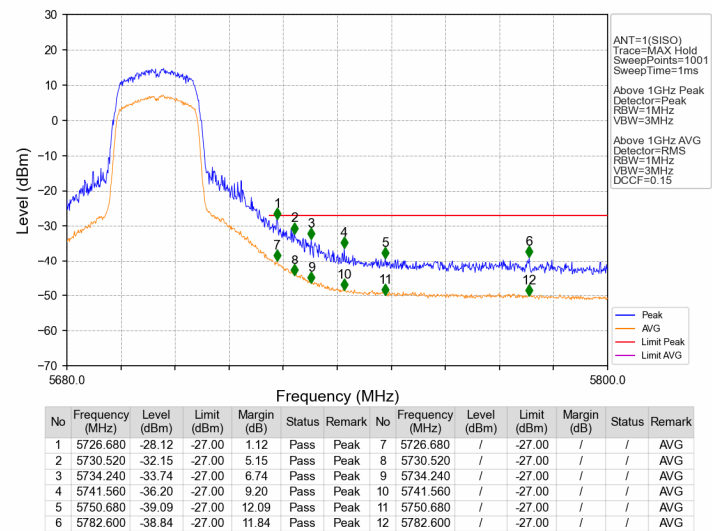
802.11n(HT20) U-NII-2A Band edge-right side



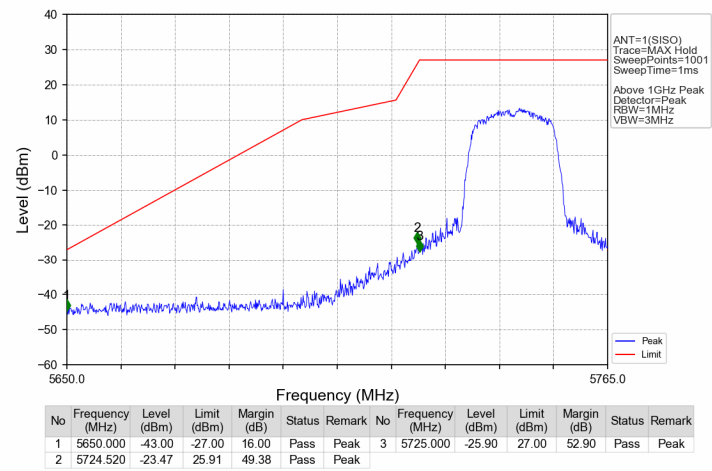
802.11n(HT20) U-NII-2C Band edge-left side



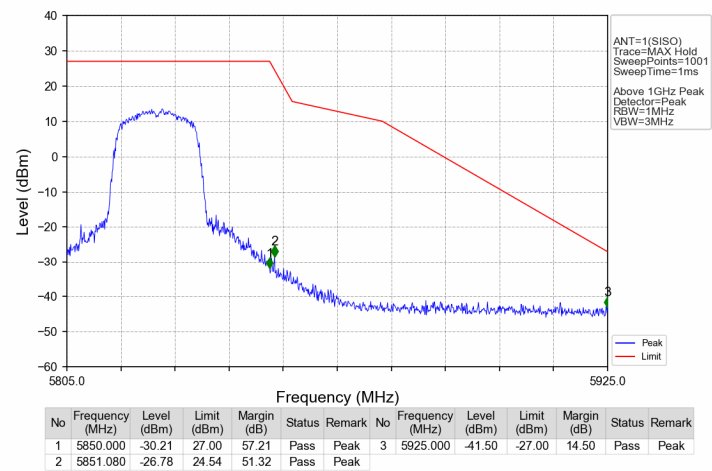
802.11n(HT20) U-NII-2C Band edge-right side



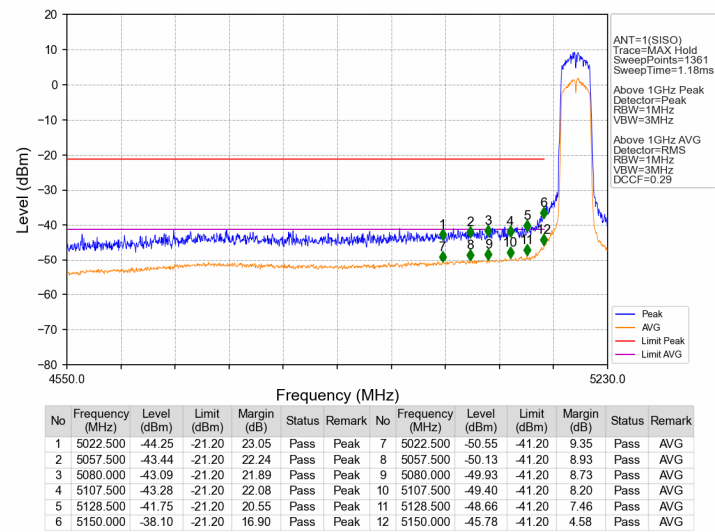
802.11n(HT20) U-NII-3 Band edge-left side



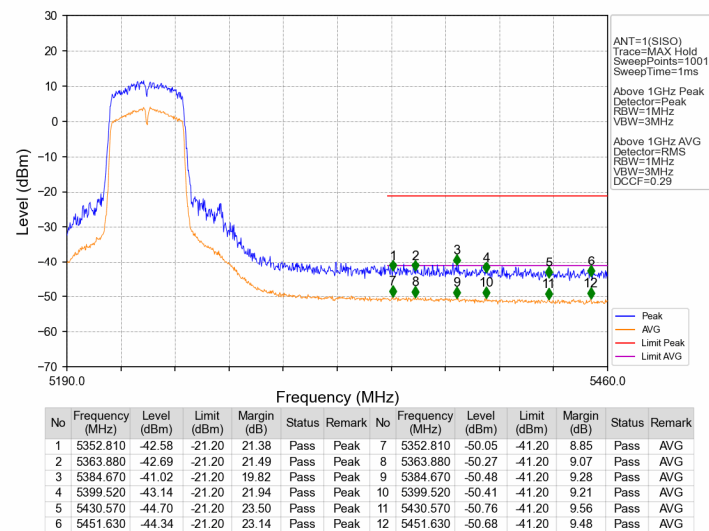
802.11n(HT20) U-NII-3 Band edge-right side



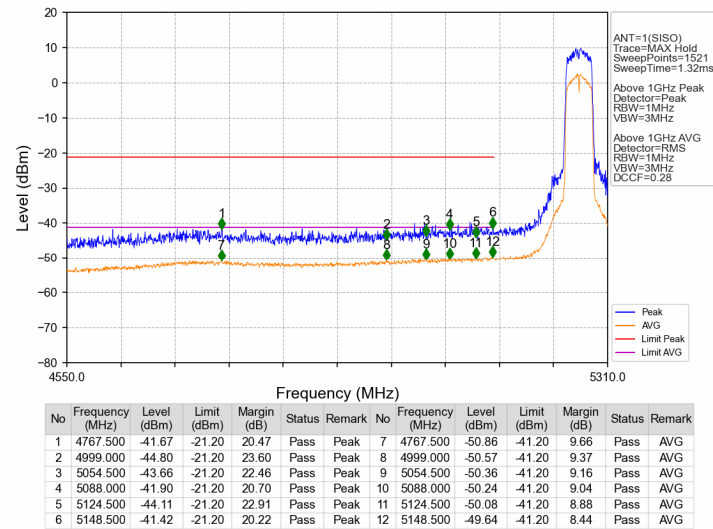
802.11n(HT40) U-NII-1 Band edge-left side



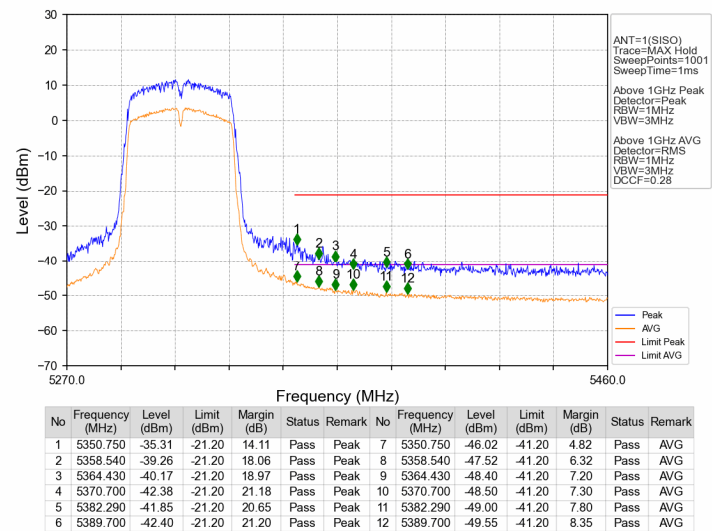
802.11n(HT40) U-NII-1 Band edge-right side



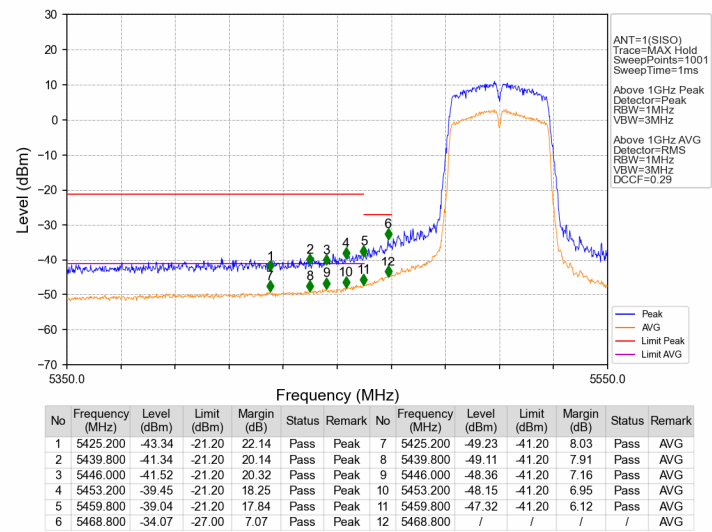
802.11n(HT40) U-NII-2A Band edge-left side



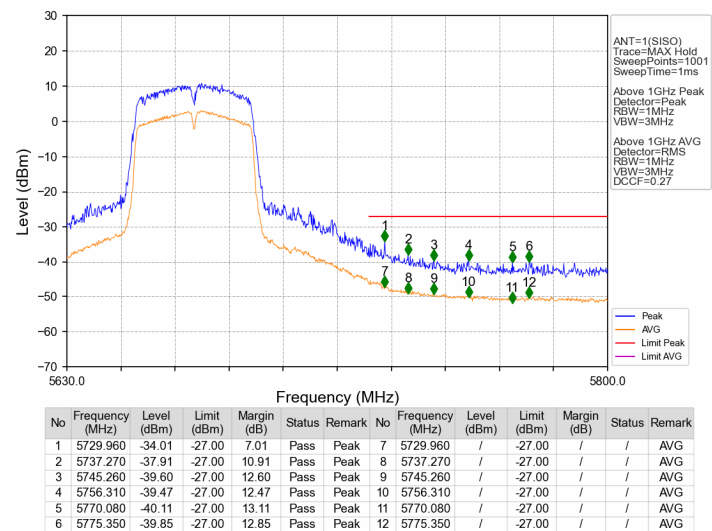
802.11n(HT40) U-NII-2A Band edge-right side



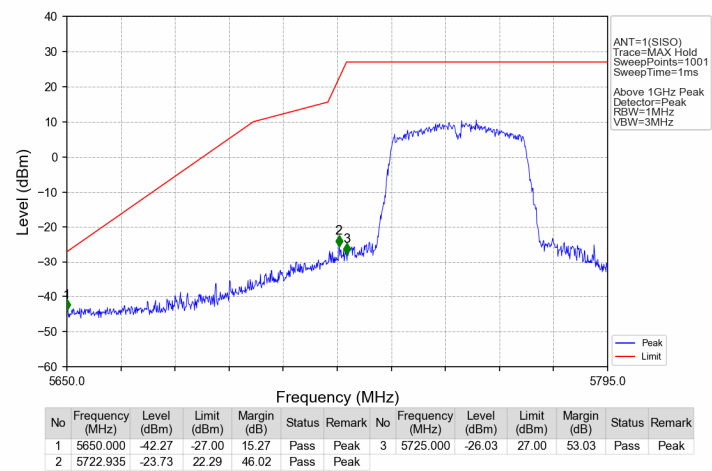
802.11n(HT40) U-NII-2C Band edge-left side



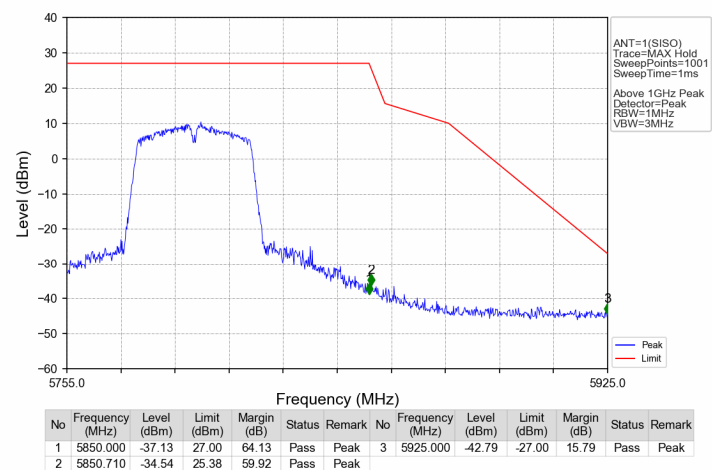
802.11n(HT40) U-NII-2C Band edge-right side



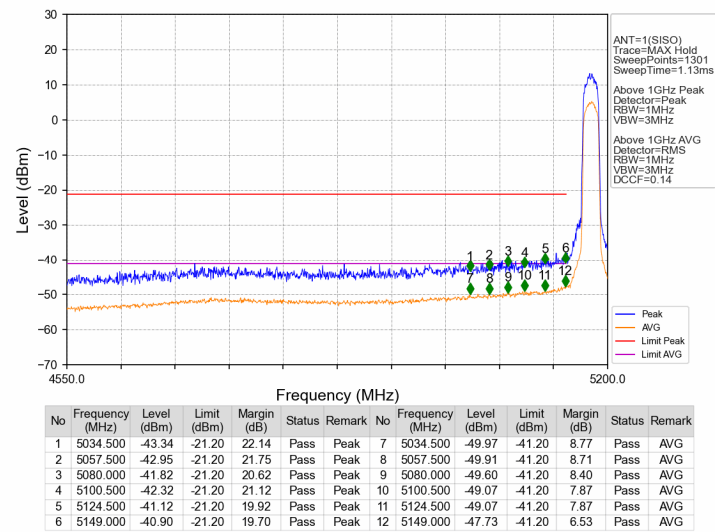
802.11n(HT40) U-NII-3 Band edge-left side



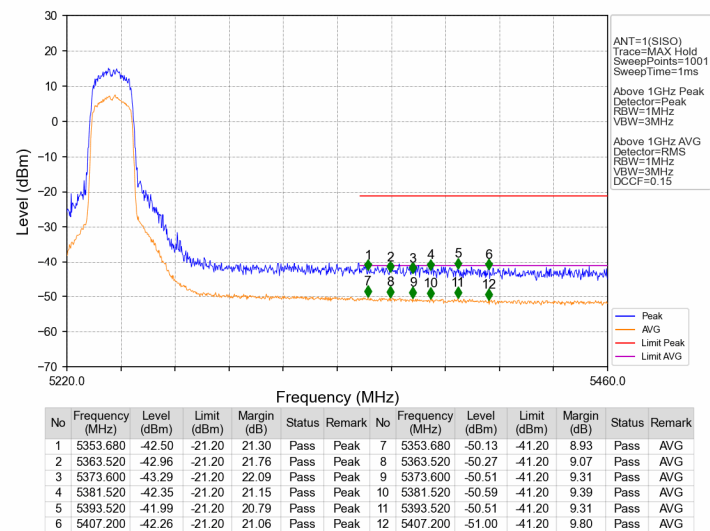
802.11n(HT40) U-NII-3 Band edge-right side



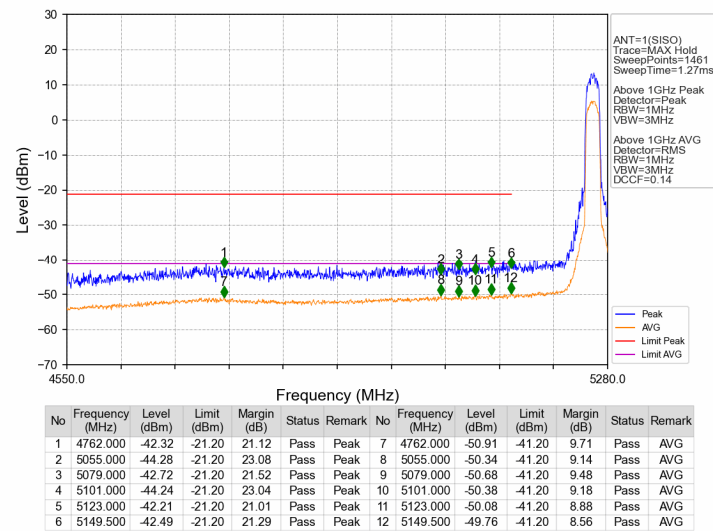
802.11ac(VHT20) U-NII-1 Band edge-left side



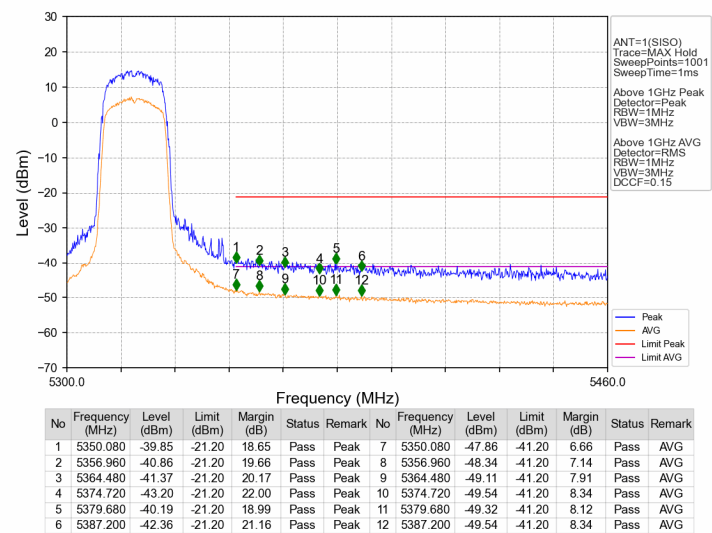
802.11ac(VHT20) U-NII-1 Band edge-right side



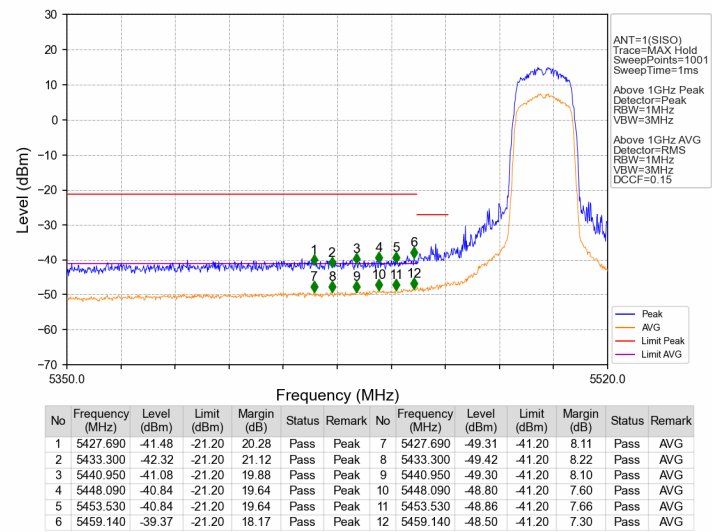
802.11ac(VHT20) U-NII-2A Band edge-left side



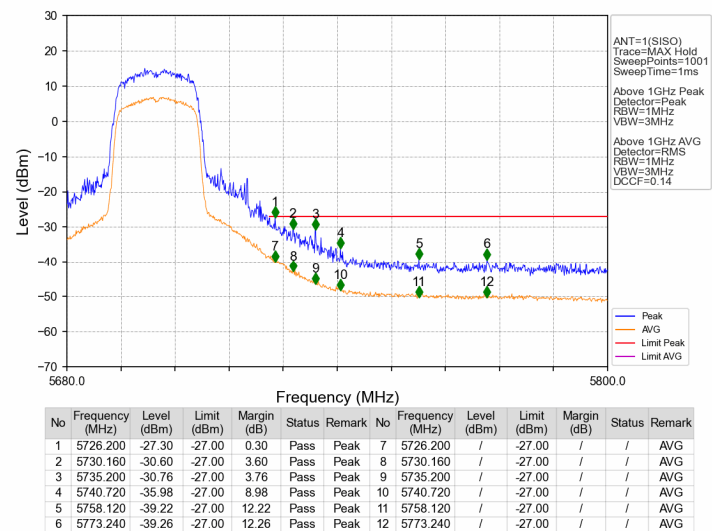
802.11ac(VHT20) U-NII-2A Band edge-right side



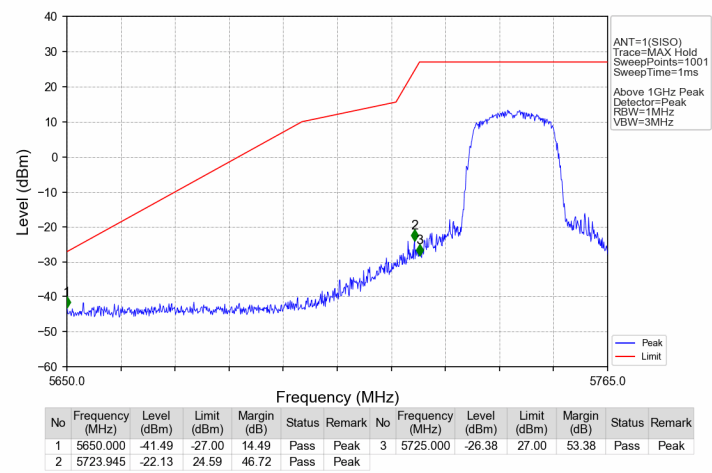
802.11ac(VHT20) U-NII-2C Band edge-left side



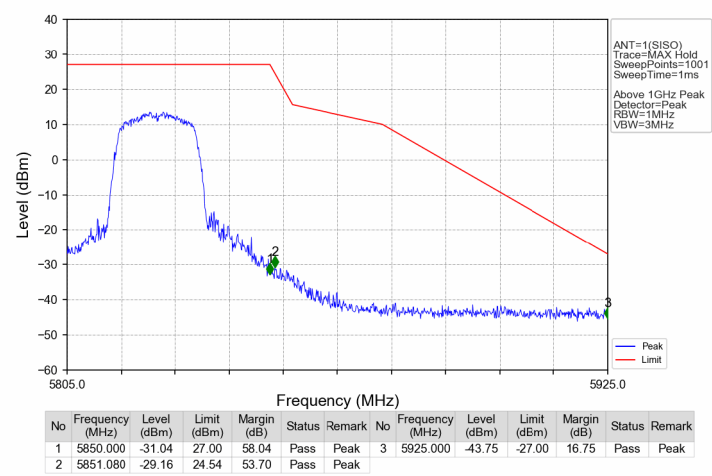
802.11ac(VHT20) U-NII-2C Band edge-right side



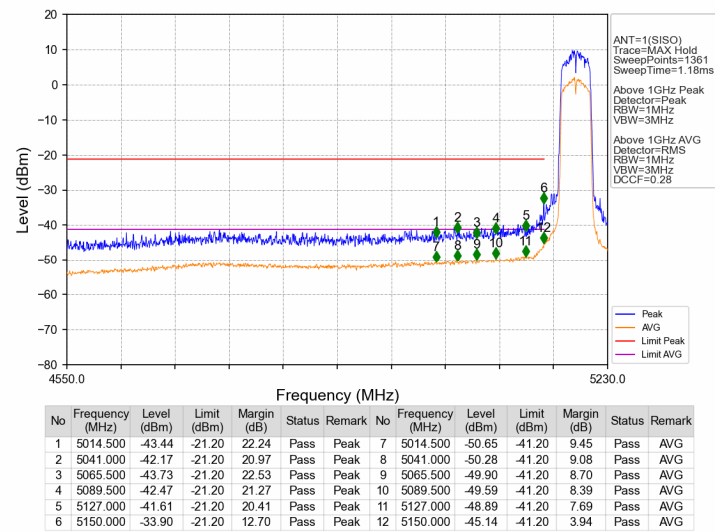
802.11ac(VHT20) U-NII-3 Band edge-left side



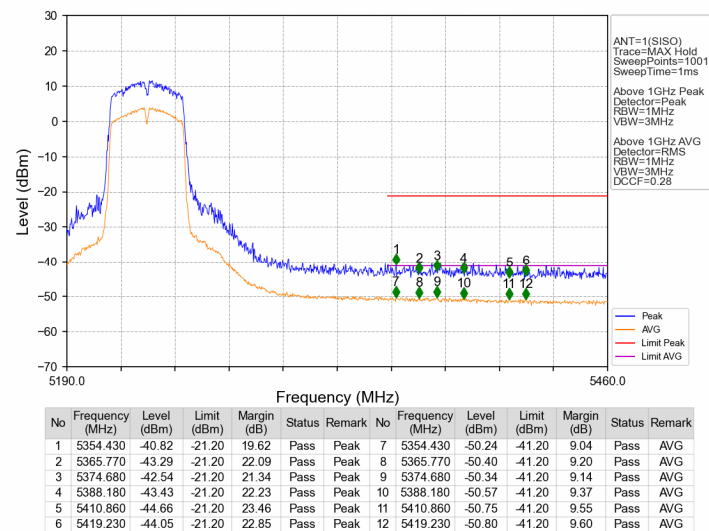
802.11ac(VHT20) U-NII-3 Band edge-right side



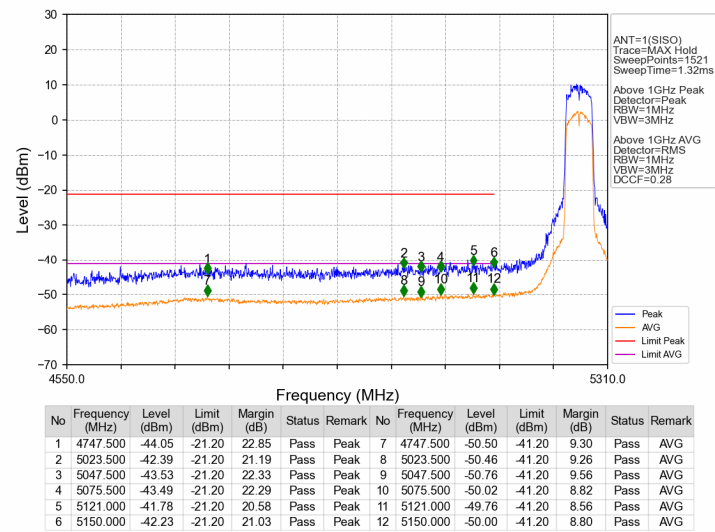
802.11ac(VHT40) U-NII-1 Band edge-left side



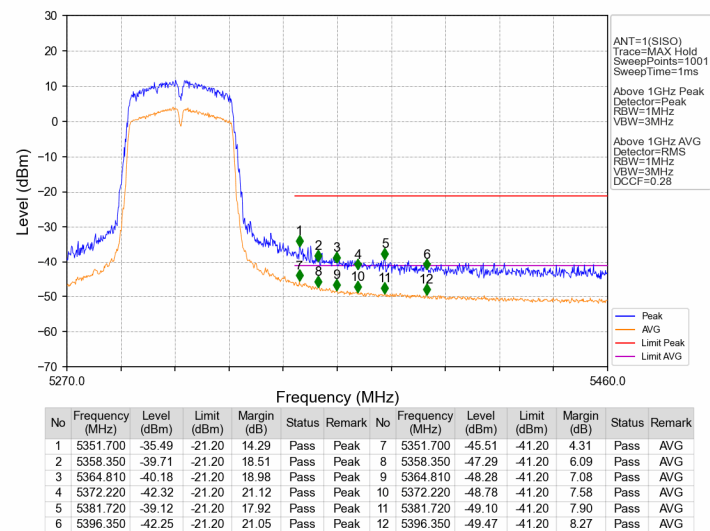
802.11ac(VHT40) U-NII-1 Band edge-right side



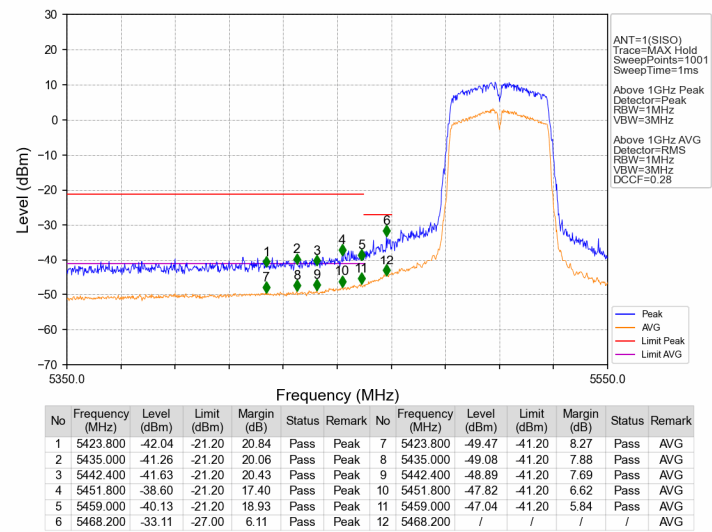
802.11ac(VHT40) U-NII-2A Band edge-left side



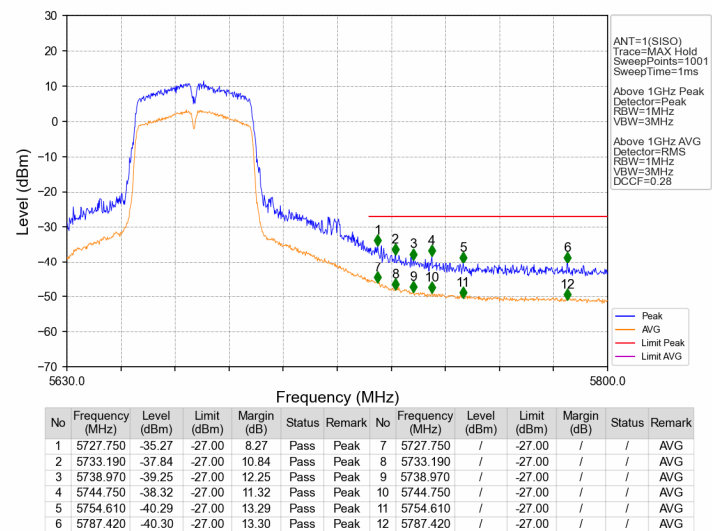
802.11ac(VHT40) U-NII-2A Band edge-right side



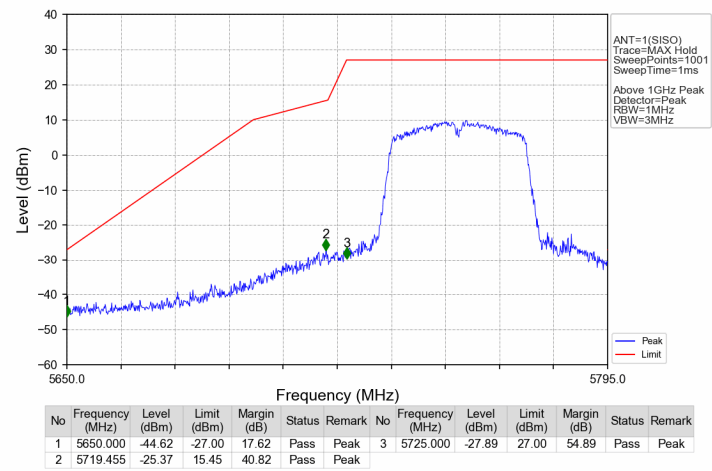
802.11ac(VHT40) U-NII-2C Band edge-left side



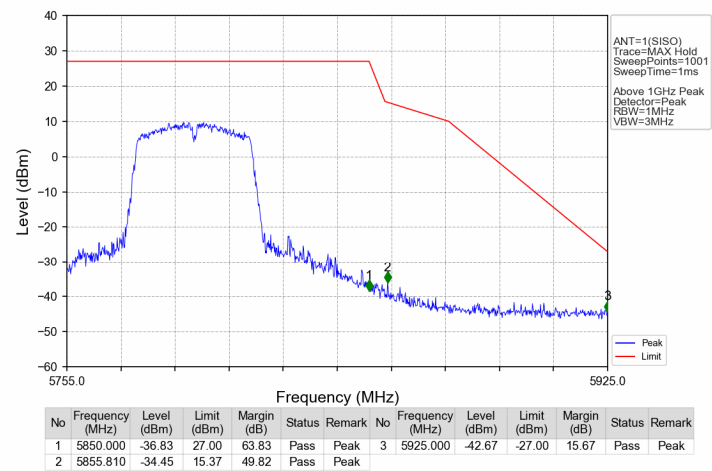
802.11ac(VHT40) U-NII-2C Band edge-right side



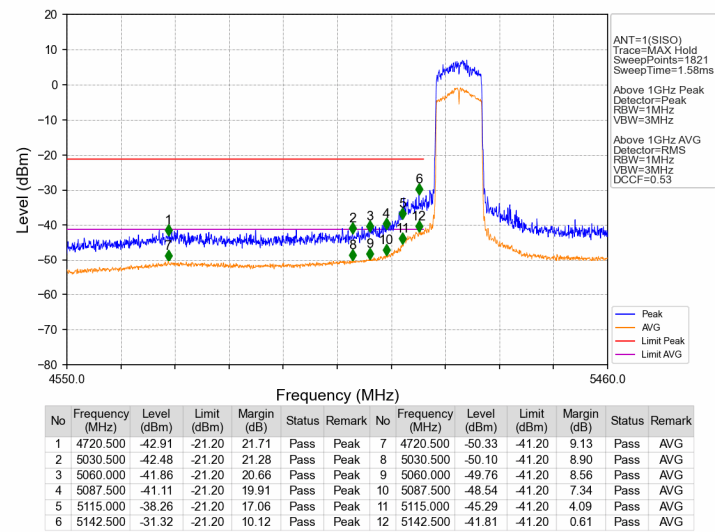
802.11ac(VHT40) U-NII-3 Band edge-left side



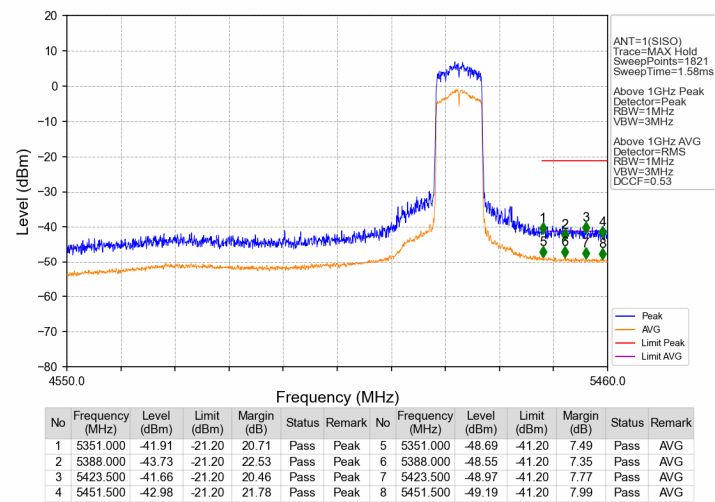
802.11ac(VHT40) U-NII-3 Band edge-right side



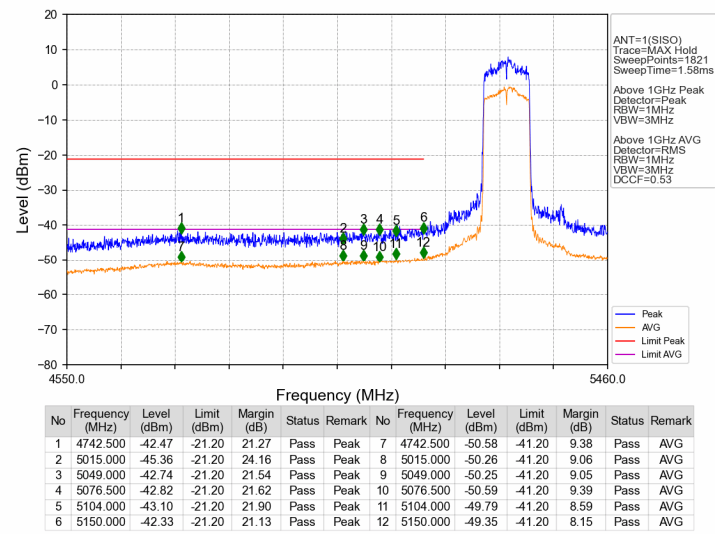
802.11ac(VHT80) U-NII-1 Band edge-left side



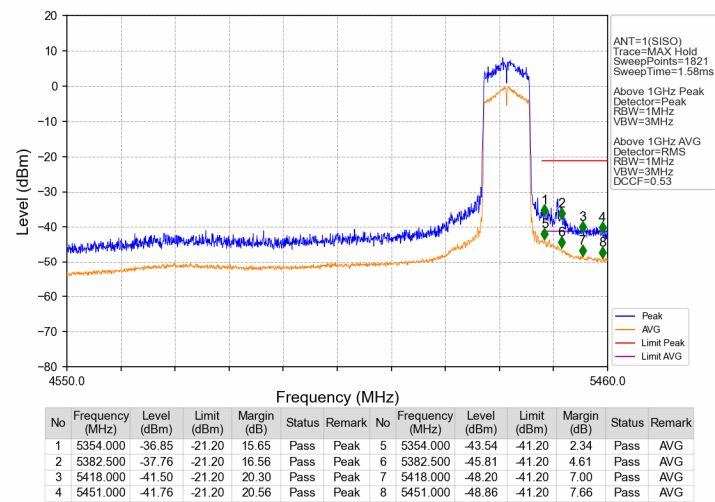
802.11ac(VHT80) U-NII-1 Band edge-right side



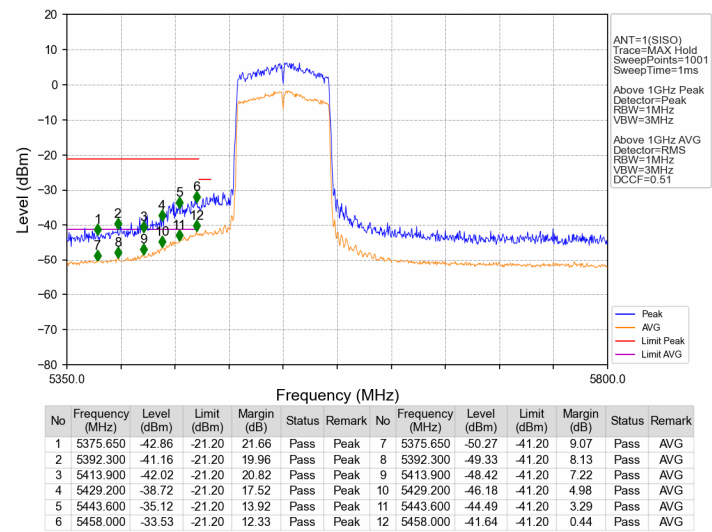
802.11ac(VHT80) U-NII-2A Band edge-left side



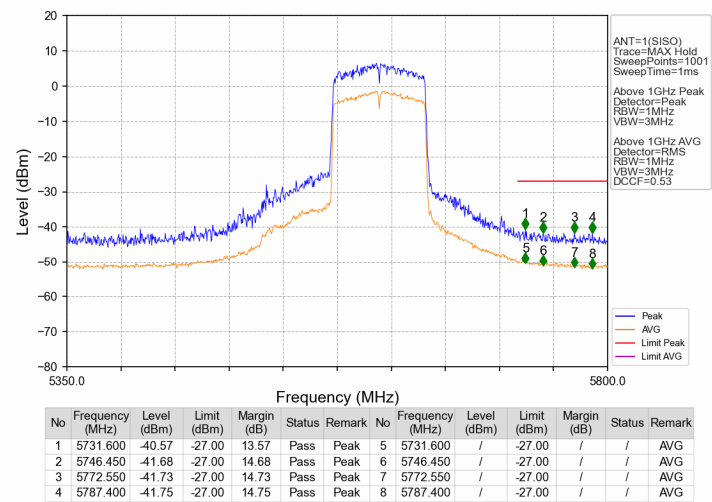
802.11ac(VHT80) U-NII-2A Band edge-right side



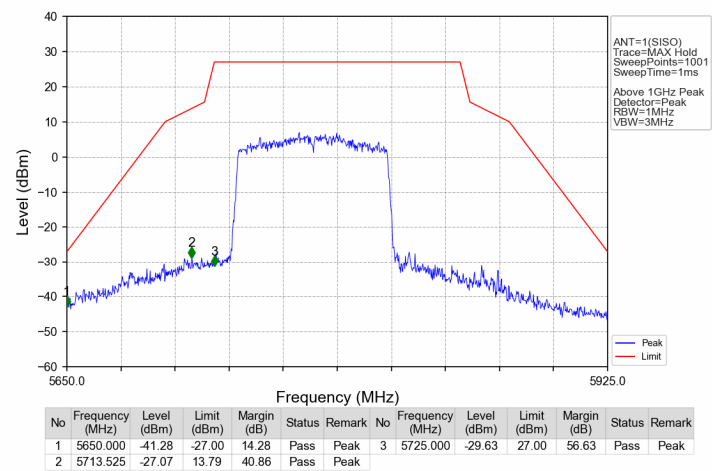
802.11ac(VHT80) U-NII-2C Band edge-left side



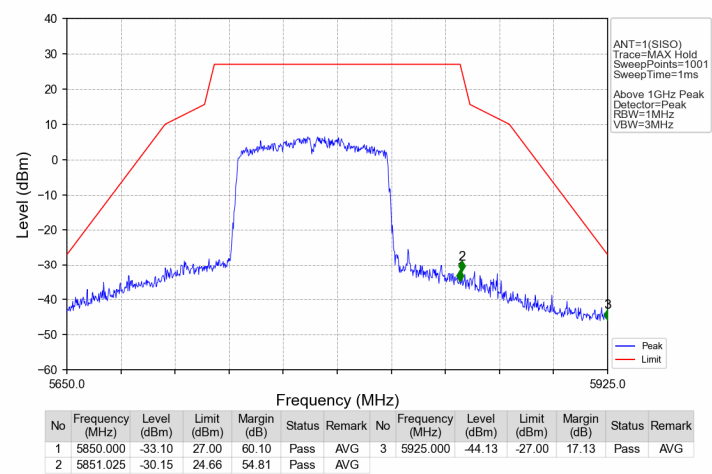
802.11ac(VHT80) U-NII-2C Band edge-right side



802.11ac(VHT80) U-NII-3 Band edge-left side



802.11ac(VHT80) U-NII-3 Band edge-right side



11 6 dB Bandwidth

Test Requirement: FCC 47CFR Part 15 Section 15.407(e)
 KDB662911 D01 Multiple Transmitter Output v02r01
 Test Method: KDB789033 D02 General U-NII Test Procedures New Rules v02r01
 Section C
 Test Limit: ≥ 500 kHz
 Test Result: PASS

11.1 Test Procedure

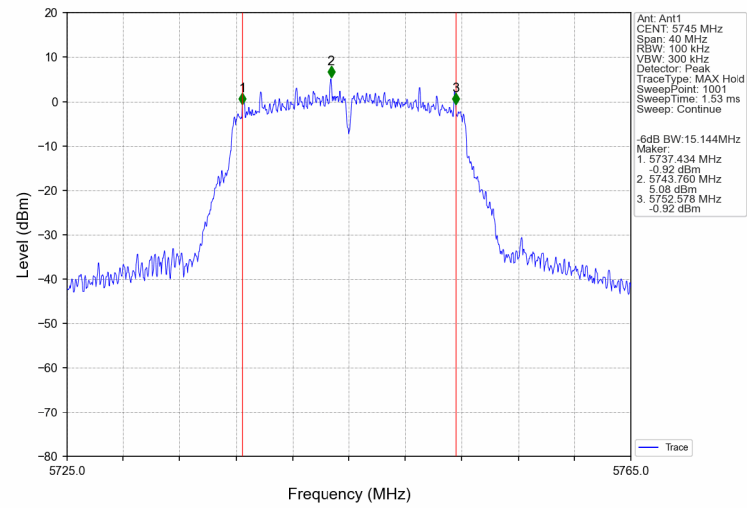
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

11.2 Test Result

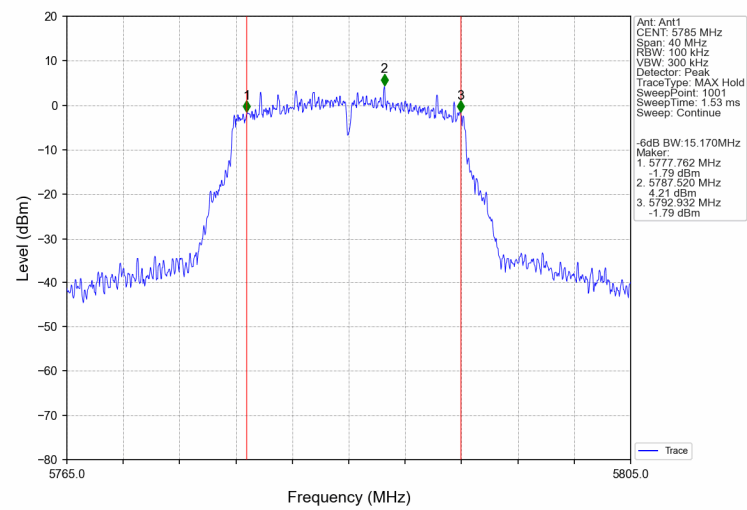
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	15.144	15.170	14.455
	802.11n(HT20)	15.139	15.171	12.645
	802.11n(HT40)	33.900	/	33.922
	802.11ac(VHT20)	15.122	13.877	13.038
	802.11ac(VHT40)	33.912	/	32.640
	802.11ac(VHT80)	75.143	/	/

Test result plots shown as follows:

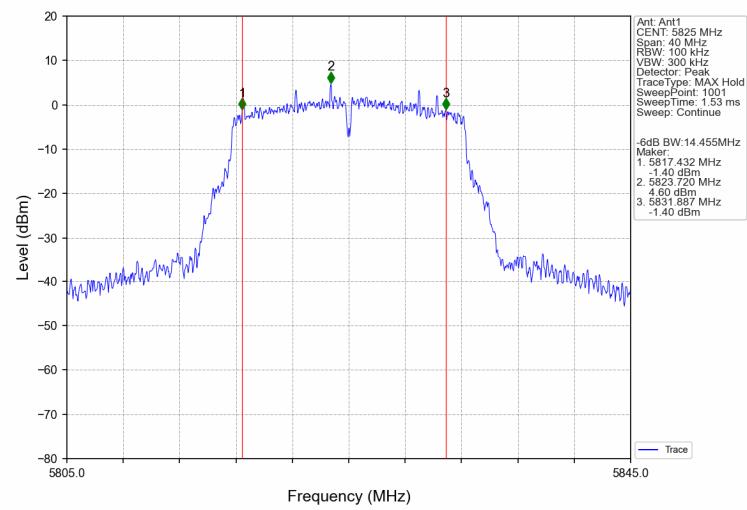
802.11a U-NII-3 Low channel



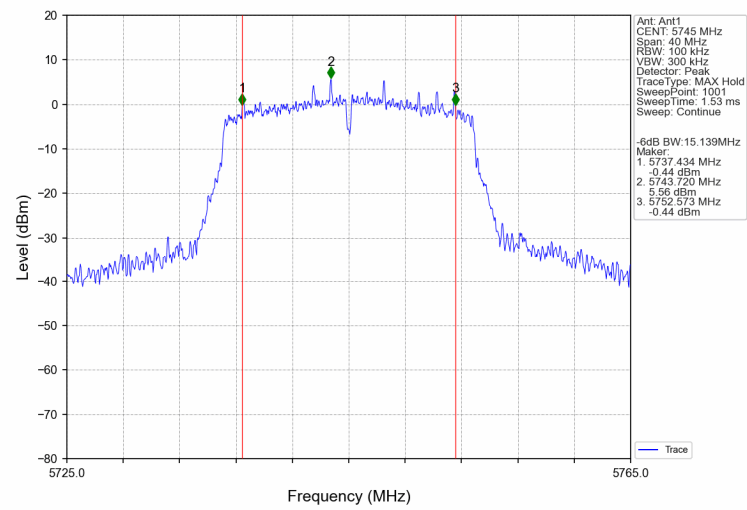
802.11a U-NII-3 Middle channel



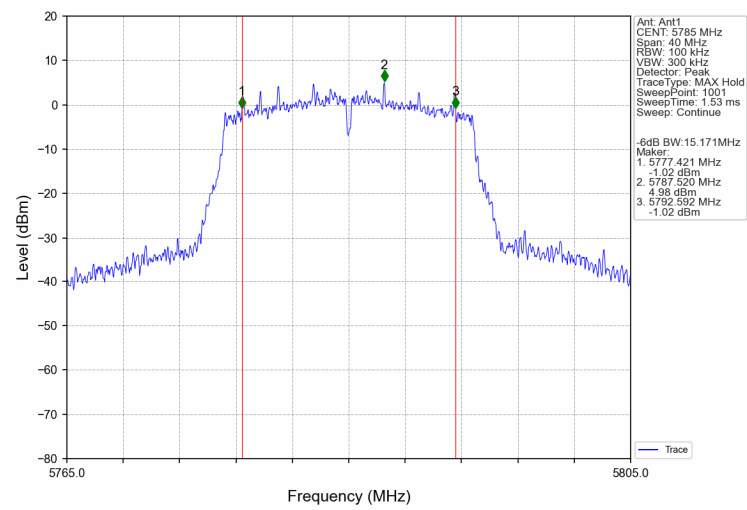
802.11a U-NII-3 High channel



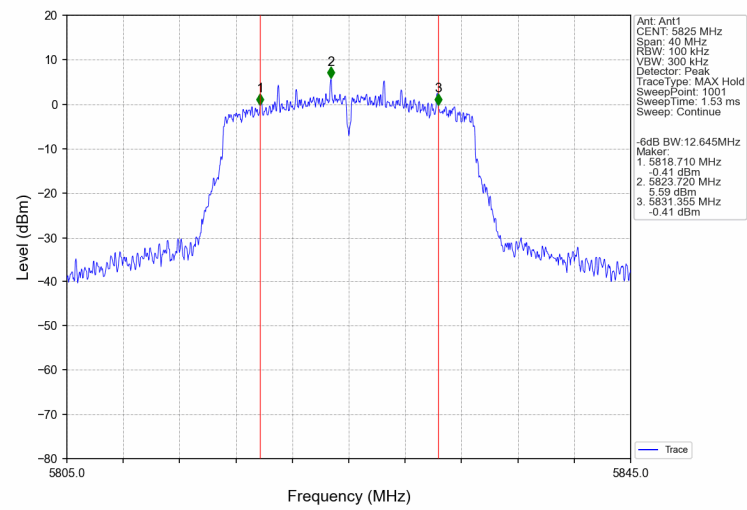
802.11n(HT20) U-NII-3 Low channel



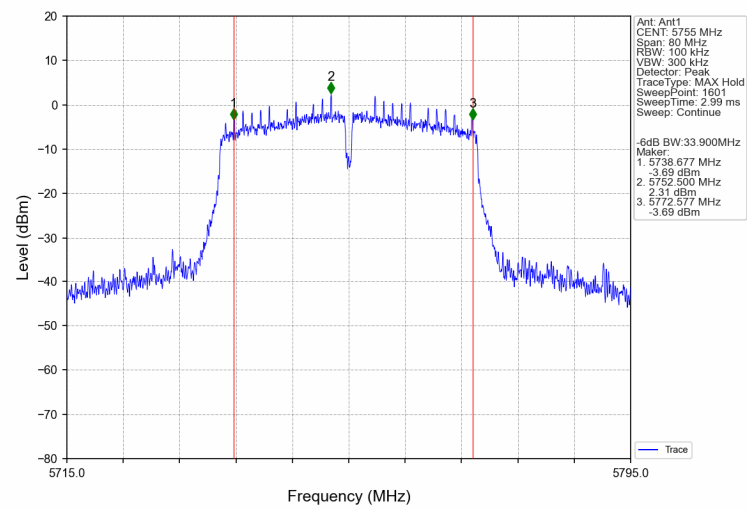
802.11n(HT20) U-NII-3 Middle channel



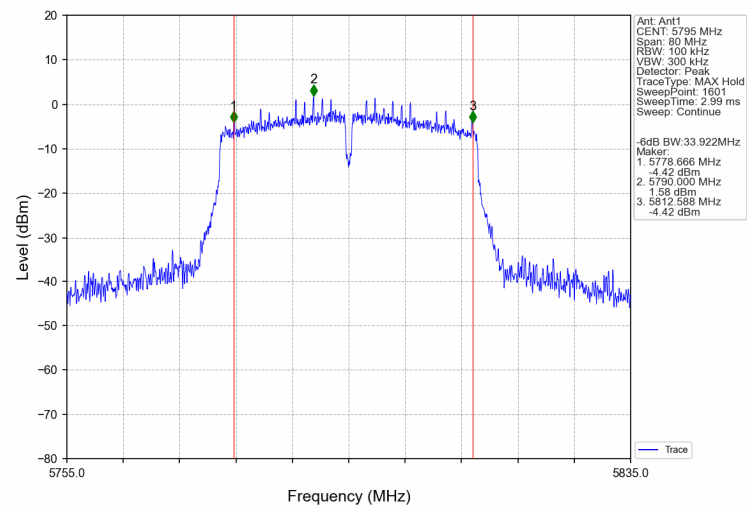
802.11n(HT20) U-NII-3 High channel



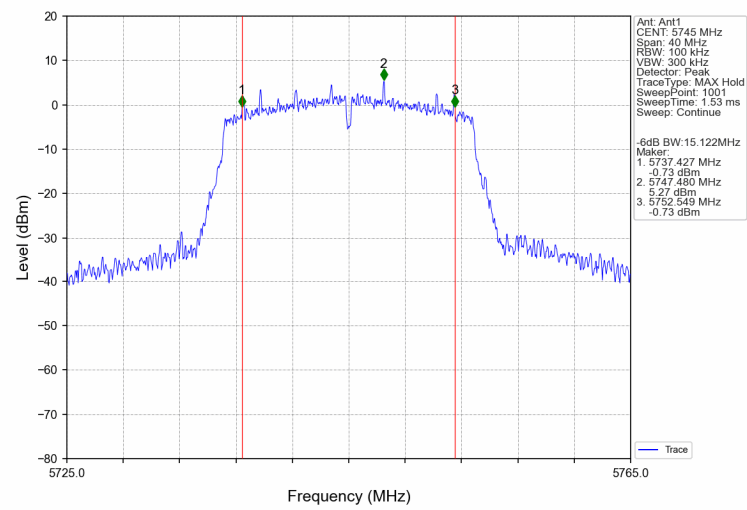
802.11n(HT40) U-NII-3 Low channel



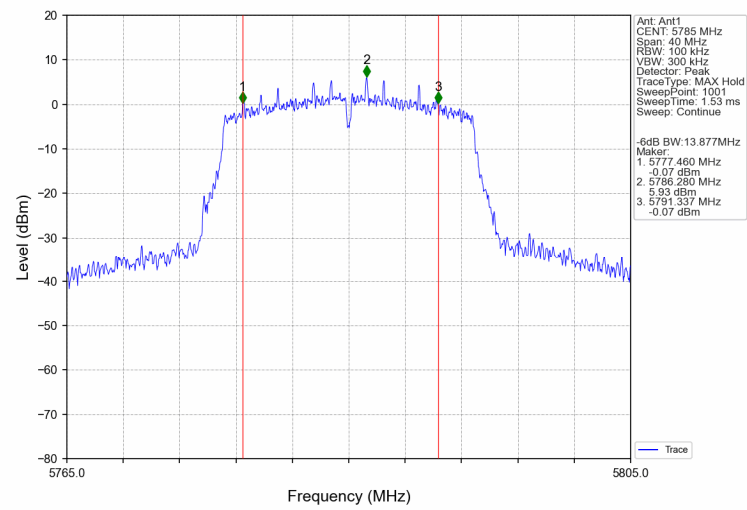
802.11n(HT40) U-NII-3 High channel



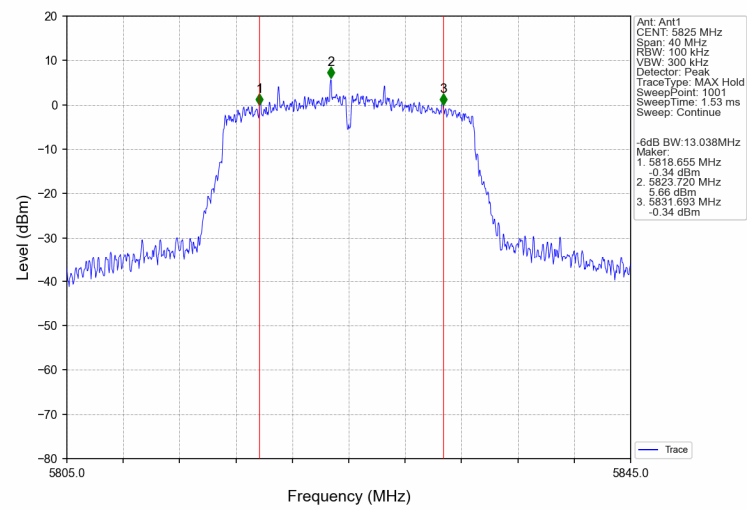
802.11ac(VHT20) U-NII-3 Low channel



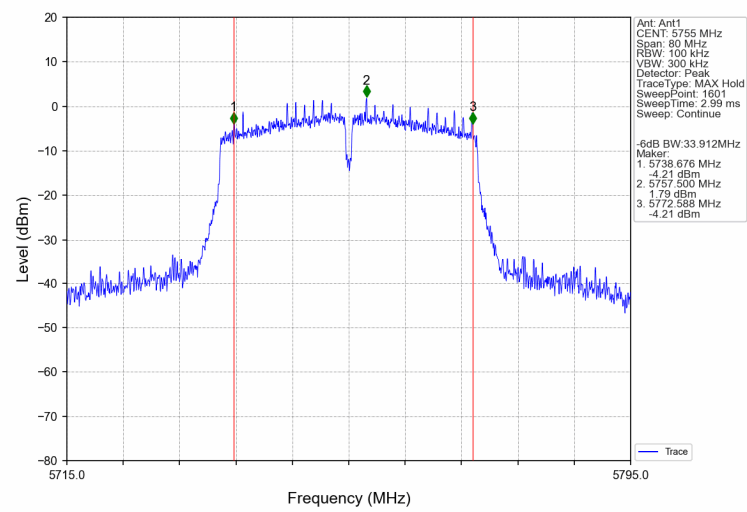
802.11ac(VHT20) U-NII-3 Middle channel



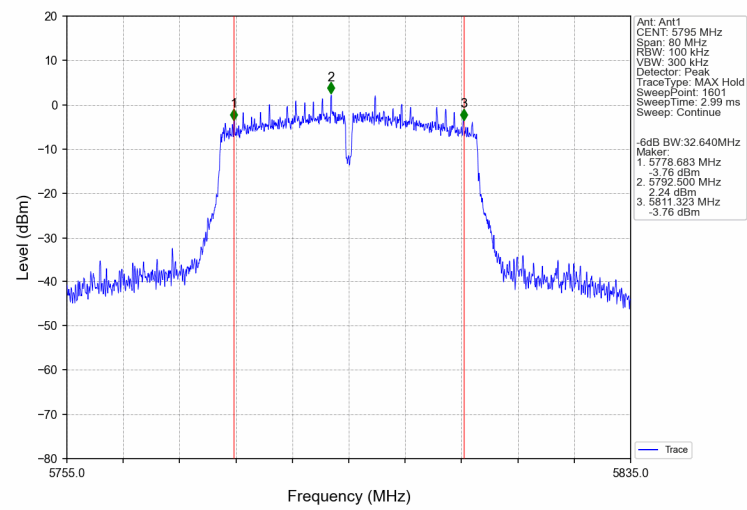
802.11ac(VHT20) U-NII-3 High channel



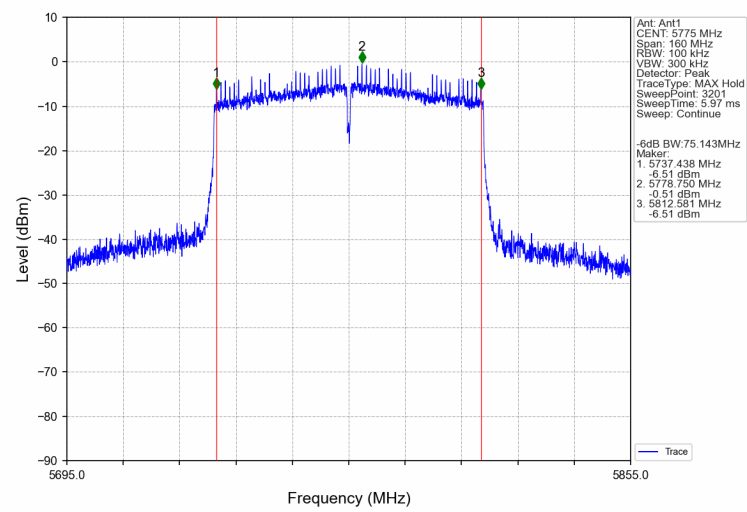
802.11ac(VHT40) U-NII-3 Low channel



802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel



12 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407 (a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section D
Test Limit:	No restriction limits
Test Result:	PASS

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1% to 5% of the OBW, VBW = 3x RBW

12.2 Test Result

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	20.168	20.339	20.341	17.096	17.193	17.108
	802.11n(HT20)	20.562	20.887	20.494	17.997	17.985	18.027
	802.11n(HT40)	41.182	/	41.066	36.258	/	36.290
	802.11ac(VHT20)	20.536	20.490	20.620	17.993	18.009	17.955
	802.11ac(VHT40)	40.690	/	41.488	36.332	/	36.361
	802.11ac(VHT80)	81.608	/	/	75.577	/	/

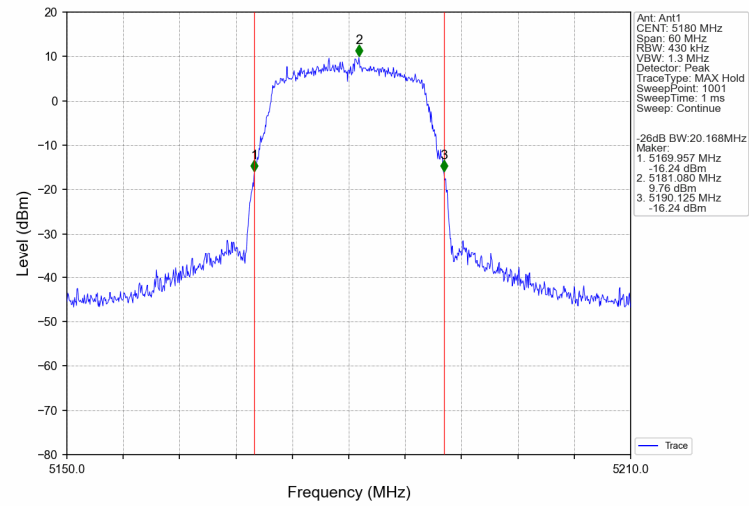
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2A	802.11a	20.288	20.267	20.315	17.138	17.193	17.135
	802.11n(HT20)	20.624	20.692	20.564	18.040	18.019	18.014
	802.11n(HT40)	41.652	/	41.299	36.437	/	36.202
	802.11ac(VHT20)	20.482	20.619	20.457	18.067	18.002	18.026
	802.11ac(VHT40)	41.519	/	41.304	36.345	/	36.278
	802.11ac(VHT80)	81.646	/	/	75.770	/	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2C	802.11a	20.254	20.288	20.382	17.095	17.148	17.169
	802.11n(HT20)	20.490	20.979	20.805	18.006	18.043	18.087
	802.11n(HT40)	41.484	41.005	41.157	36.214	36.238	36.325
	802.11ac(VHT20)	20.663	20.842	20.735	17.913	18.045	18.055
	802.11ac(VHT40)	40.753	41.394	41.040	36.202	36.220	36.151
	802.11ac(VHT80)	81.443	81.630	/	75.825	75.789	/

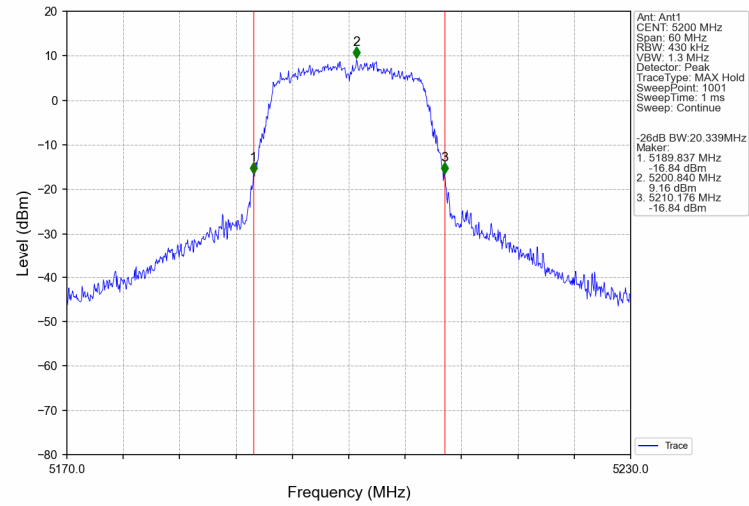
Band	Operation mode	99% Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	17.026	17.089	17.131
	802.11n(HT20)	18.041	17.944	18.090
	802.11n(HT40)	36.235	/	36.287
	802.11ac(VHT20)	17.983	18.080	18.021
	802.11ac(VHT40)	36.213	/	36.265
	802.11ac(VHT80)	75.723	/	/

Test result plots shown as follows:

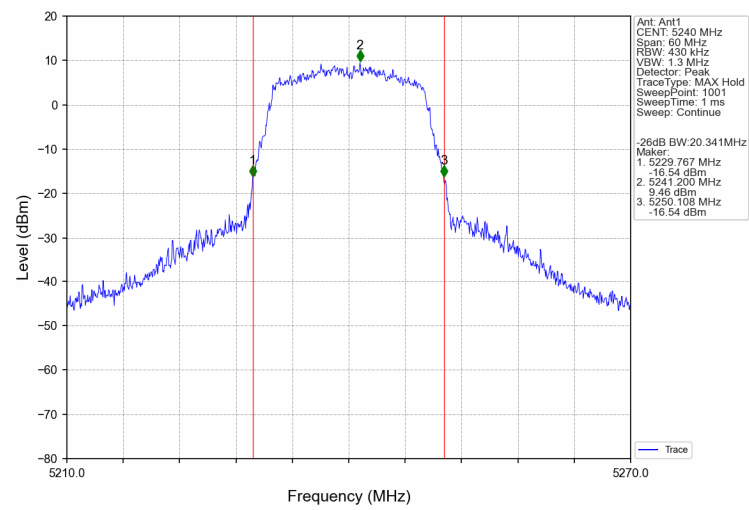
26 dB Bandwidth
802.11a U-NII-1 Low channel



802.11a U-NII-1 Middle channel



802.11a U-NII-1 High channel



802.11n(HT20) U-NII-1 Low channel

