

FCC/ISED - TEST REPORT

Report Number	:	68.950.23.0972.01	Date of Issue:	2023-11-06
Model/HVIN	:	EF-MT-H10-1		
Product Type	:	EcoFlow PowerInsight		
Applicant	:	EcoFlow Inc.		
Address	:	1st Floor, Building 1, Plant E, Jiehe Industrial City, Shuitian Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong 518000, China		
Manufacturer	:	EcoFlow Inc.		
Address	:	1st Floor, Building 1, Plant E, Jiehe Industrial City, Shuitian Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong 518000, China		
Test Result	:	☒ Positive ☐ Negative		
Total pages including Appendices	:	269		

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1. Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District Shenzhen 518052 P.R. China
Telephone:	86 755 8828 6998
Fax:	86 755 8288 5299
FCC Registration No.:	514049
FCC Designation Number:	CN5009
ISED CAB Identifier:	CN0077
IC Registration No.:	10320A

2. Description of the Equipment Under Test

Product:	EcoFlow PowerInsight
Model no.:	EF-MT-H10-1
Hardware Version Identification No. (HVIN)	EF-MT-H10-1
Product Marketing Name (PMN)	EcoFlow PowerInsight
Brand name:	
FCC ID:	2A2P9-MTH101
IC:	27618-MTH101
Options and accessories:	USB Cable
Rating:	3.8VDC, 3000mAh, 11.4Wh rechargeable Li-ion battery or 5VDC, 2A supplied by external adapter or 5VDC, 2A supplied by charging base
RF transmission frequency:	5.150GHz~5.250GHz 5.250GHz~5.350GHz 5.470GHz~5.725GHz 5.725GHz~5.850GHz Note: until further notice, device subject to this section shall not be capable of transmitting in the band 5600-5650MHz. This restriction is for the protection of Environment Canada's weather radars operating in this band.
Antenna Type:	FPCB
Antenna Gain:	Ant B: 1.09dBi, Antenna model No.: X4-AUX Ant A: 1.19dBi, Antenna model No.: X6-MAIN Note: Antenna A and Antenna B support MIMO mode, so directional gain value as below: $\text{DirectionalGain} = 10 * \log[(10^{1.09/20} + 10^{1.19/20})^2 / 2] = 4.15$
Description of the EUT	The EUT is an EcoFlow PowerInsight. It has two wireless modules. The module ESP32-S3-WROOM-1U supports Bluetooth Low Energy, 2.4G Wi-Fi functions. And the module MT7663BSN supports Bluetooth Low Energy/Bluetooth BDR+EDR, 2.4G Wi-Fi & 5G Wi-Fi functions. Only 5GHz Wi-Fi included in this report.

3. Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Intentional Radiators
RSS-Gen Issue 5 April 2018 + Amendment 1 March 2019 + Amendment 2 February 2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 3 August 2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices

Test Method:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 Client Without DFS New Rules v01r02

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

4. Summary of Test Results

Test Condition		Test Result		
		Pass	Fail	N/A
§15.207 & RSS-Gen 8.8	Conducted Emission AC Power Port	☒	☐	☐
§15.407(a)(2) & RSS-247 6.2	Emission bandwidth	☒	☐	☐
§15.407(a)(1), §15.407(a)(3), RSS-247 6.2	Maximum Conducted Output Power	☒	☐	☐
§15.407(a)(1), §15.407(a)(3), RSS-247 6.2	Maximum Power Spectral Density	☒	☐	☐
§15.407(b)(1), §15.407(b)(2), §15.407(b)(3), §15.407(b)(4), §15.407(b)(8), §15.407(b)(9), §15.209, RSS-247 6.2, RSS-Gen 8.9	Unwanted Emissions	☒	☐	☐
§15.407(b)(1), §15.407(b)(2), §15.407(b)(3), §15.407(b)(4), RSS-247 6.2, RSS-Gen 8.9	Band edge compliance	☒	☐	☐
§15.407(g), RSS-Gen 6.11 Frequencies Stability	Frequencies Stability	☒	☐	☐
§15.407(h), RSS-247 6.3	Dynamic Frequency Selection (DFS).	☒	☐	☐
§15.203, RSS-Gen 6.8	Antenna Requirement	☒ See note2	☐	☐

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a FPCB antenna, which gain are 1.09dBi (ANTB) and 1.19dBi (ANTA). In accordance to §15.203 & RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.

5. General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: FCC ID: 2A2P9-MTH101, IC: 27618-MTH101 complies with the FCC Part 15.205, 15.207, 15.209, 15.407 Subpart and RSS-247 issue 3 and RSS-Gen issue 5 rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - Not Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2023-11-17

Testing Start Date: 2023-11-17

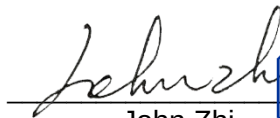
Testing End Date: 2023-12-04

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch.

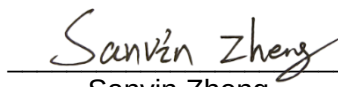
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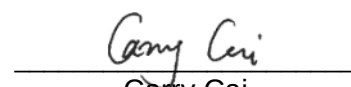
Prepared by:

Tested by:


John Zhi
Project Manager

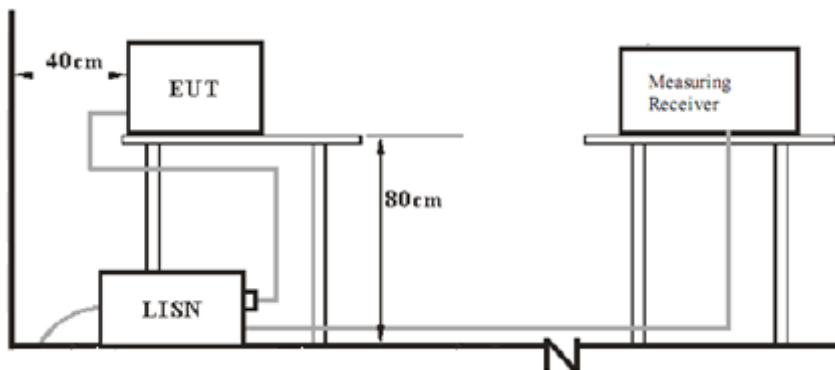



Sanvin Zheng
Project Engineer


Carry Cai
Test Engineer

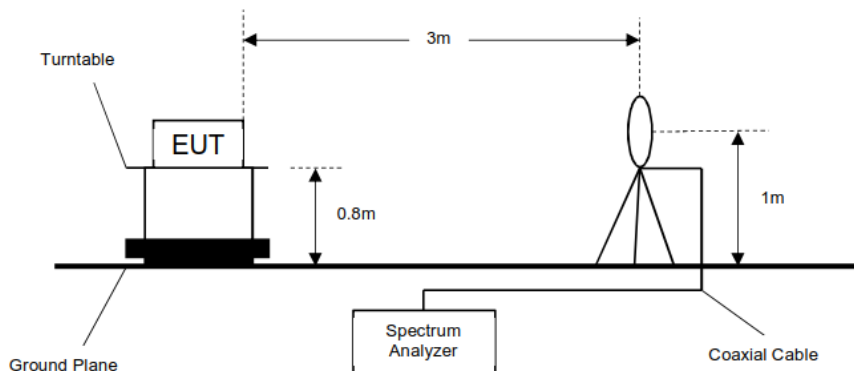
6. Test setups

7.1 AC Power Line Conducted Emission test setups

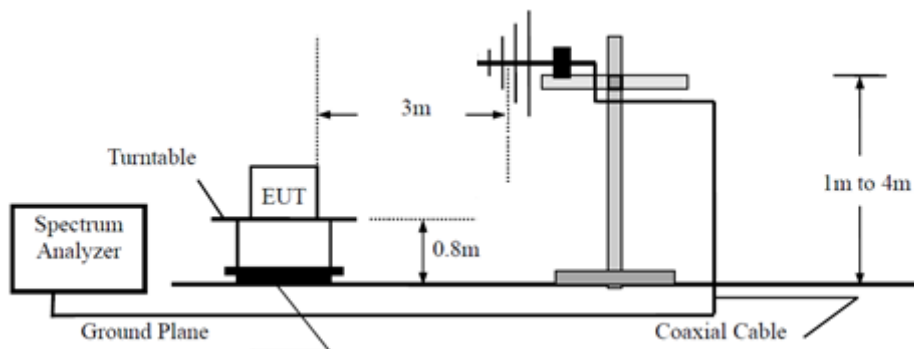


7.2 Radiated test setups

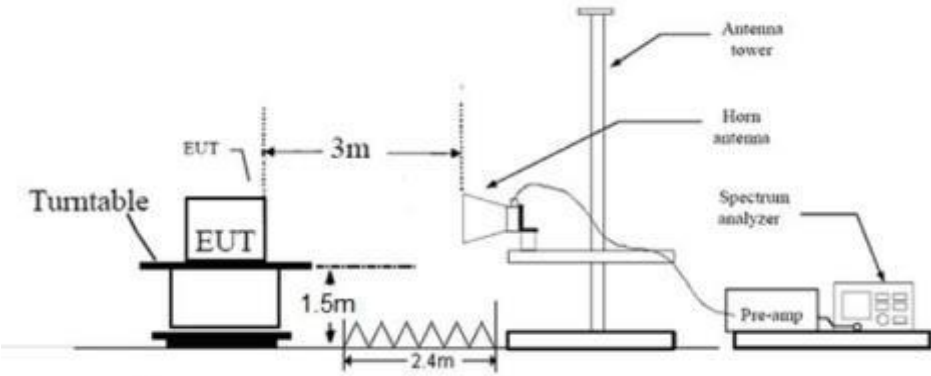
9KHz-30MHz



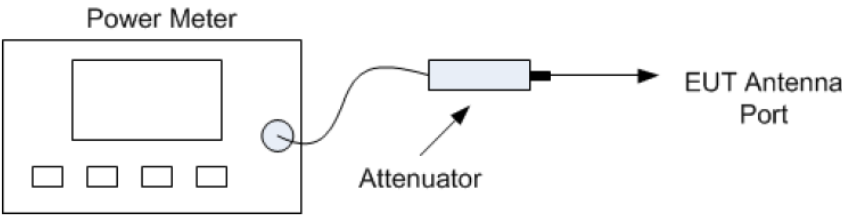
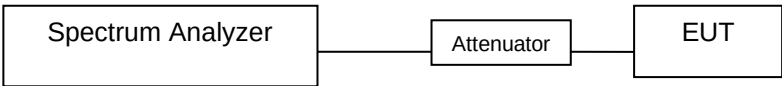
Below 1GHz



Above 1GHz



7.3 Conducted RF test setups



Power meter conducted test setup

7. Systems test configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model No.	S/N
Notebook	Lenovo	X220	429044C

Cables Used During Test:

Cable	Length	Shielded/unshielded	With / without ferrite
USB cable	100cm	Unshielded	without ferrite

In order to find the worst case condition, pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Band	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ac HT20	MCS0
802.11ac HT40	MCS0
802.11ac HT80	MCS0

The system was configured to channel and TX power setting:

Test Software	cmd.exe			
Mode	Setting Tx Power		Channel	Frequency (MHz)
	ANT_B	ANT_A		
802.11a	13	13	Low: CH36	5180
	13	13	Middle: CH40	5200
	13	13	High: CH48	5240
	14	14	Low: CH52	5260
	14	14	Middle: CH56	5280
	14	14	High: CH64	5320
	13	13	Low: CH100	5500
	13	13	Middle: CH116	5580
	13	13	High: CH140	5700
	13	13	High: CH144	5720
	13	13	Low: CH149	5745
	13	13	Middle: CH157	5785
802.11n HT20	13	13	High: CH165	5825
	10	10	Low: CH36	5180
	10	10	Middle: CH40	5200
	10	10	High: CH48	5240
	11	11	Low: CH52	5260
	11	11	Middle: CH56	5280
	11	11	High: CH64	5320
	10	10	Low: CH100	5500
	10	10	Middle: CH116	5580
	10	10	High: CH140	5700
	10	10	High: CH144	5720
	10	10	Low: CH149	5745
	10	10	Middle: CH157	5785
	10	10	High: CH165	5825

802.11n HT40	10	10	Low: CH38	5190
	10	10	Middle: CH46	5230
	10	11	High: CH54	5270
	11	11	Low: CH62	5310
	10	10	Middle: CH102	5510
	10	10	High: CH110	5550
	10	10	Low: CH134	5670
	10	10	High: CH142	5710
	10	10	Low: CH151	5755
	10	10	High: CH159	5795
802.11ac VHT20	10	10	Low: CH36	5180
	10	10	Middle: CH40	5200
	10	10	High: CH48	5240
	11	11	Low: CH52	5260
	11	11	Middle: CH56	5280
	11	11	High: CH64	5320
	10	10	Low: CH100	5500
	10	10	Middle: CH116	5580
	10	10	High: CH140	5700
	10	10	High: CH144	5720
	10	10	Low: CH149	5745
	10	10	Middle: CH157	5785
802.11ac VHT40	10	10	Low: CH38	5190
	10	10	Middle: CH46	5230
	11	11	High: CH54	5270
	11	11	Low: CH62	5310
	10	10	Middle: CH102	5510
	10	10	High: CH110	5550
	10	10	Low: CH134	5670
	10	10	High: CH142	5710
	10	10	Low: CH151	5755
	10	10	High: CH159	5795
802.11ac VHT80	10	10	CH42	5210
	11	11	CH58	5290
	10	10	CH106	5530
	10	10	CH138	5690
	10	10	CH155	5775

8. Technical Requirement

8.1 Conducted emission AC power port

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

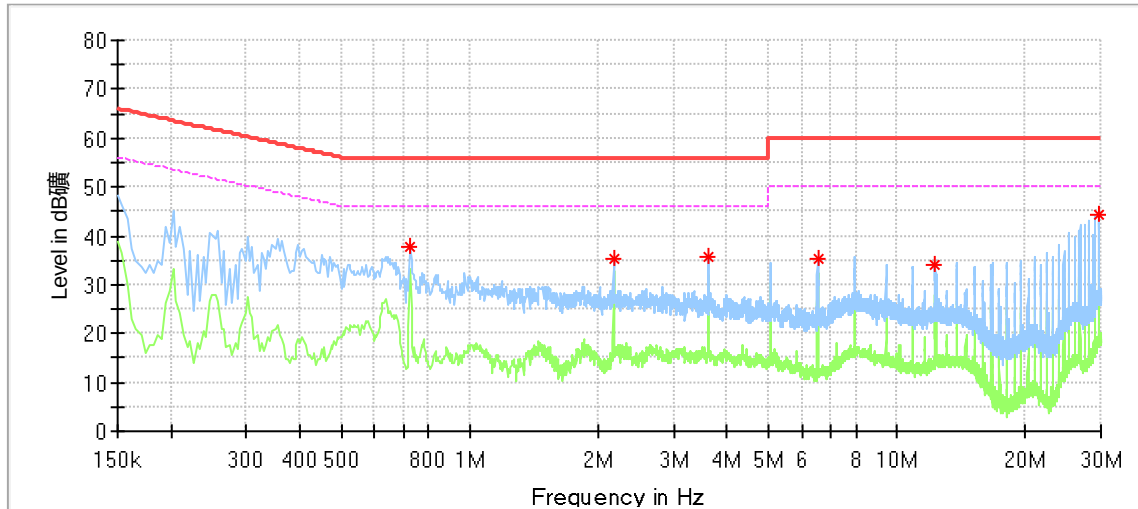
Limit

According to §15.207 & RSS-Gen 8.8, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: “*” Decreasing linearly with logarithm of the frequency

Product Type : EcoFlow PowerInsight
 M/N : EF-MT-H10-1
 Operating Condition : Transmitting mode
 Test specification : Line
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.726000	37.91	---	56.00	18.09	L1	9.60
2.174000	35.44	---	56.00	20.56	L1	9.62
3.618000	35.70	---	56.00	20.30	L1	9.68
6.518000	35.26	---	60.00	24.74	L1	9.82
12.298000	33.87	---	60.00	26.13	L1	9.98
29.666000	44.11	---	60.00	15.89	L1	10.03

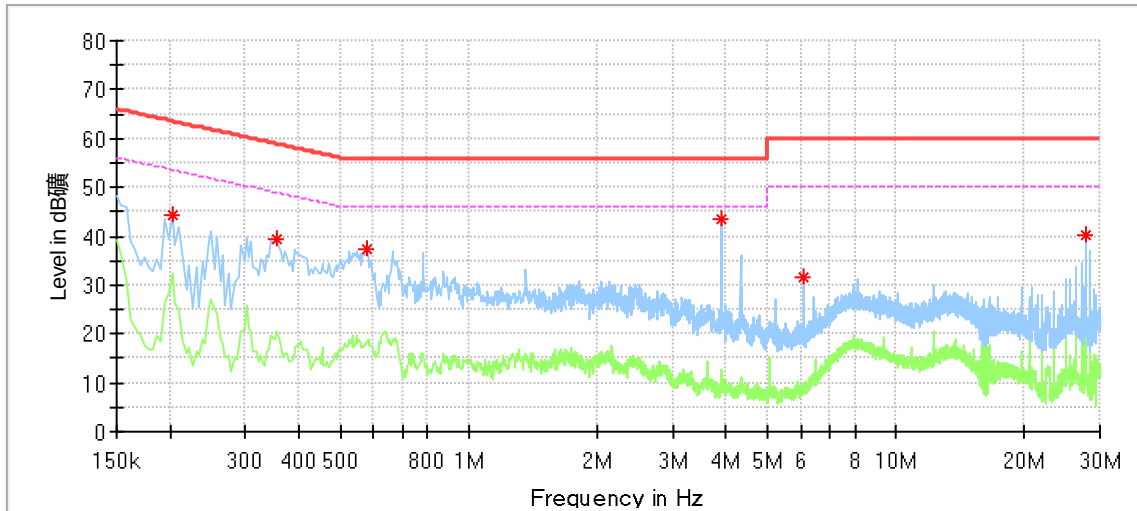
Remark:

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Product Type : EcoFlow PowerInsight
 M/N : EF-MT-H10-1
 Operating Condition : Transmitting mode
 Test specification : Neutral
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.202000	44.45	---	63.53	19.07	N	9.58
0.354000	39.40	---	58.87	19.47	N	9.61
0.578000	37.20	---	56.00	18.80	N	9.63
3.902000	43.30	---	56.00	12.70	N	9.72
6.074000	31.55	---	60.00	28.45	N	9.82
27.782000	40.02	---	60.00	19.98	N	9.90

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

8.2 Emission bandwidth

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

1、 Test Method of 26dB Bandwidth

According to KDB789033 D02

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Limit: No limit

2、 Test Method of 6dB Bandwidth

According to KDB789033 D02

- a) Set center frequency to the nominal EUT channel center frequency
- b) Set RBW = 100kHz
- c) Set the video bandwidth (VBW) $\geq 3 \times$ RBW
- d) Detector = Peak.
- e) Trace mode = max hold.
- f) Sweep = No faster than coupled (auto) time.
- g) Allow the trace to stabilize.
- h) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Limit: $\geq 500\text{kHz}$

3、 Test Method of 99% Bandwidth

According to KDB789033 D02

- a) Set center frequency to the nominal EUT channel center frequency
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1 % to 5 % of the OBW
- d) Set VBW $\geq 3 \cdot$ RBW
- e) Trace mode = max hold.
- f) Sweep = auto couple.
- g) Allow the trace to stabilize.
- h) Use the 99 % power bandwidth function of the instrument.
- i) Record the results in the test report.

Limit: No limit

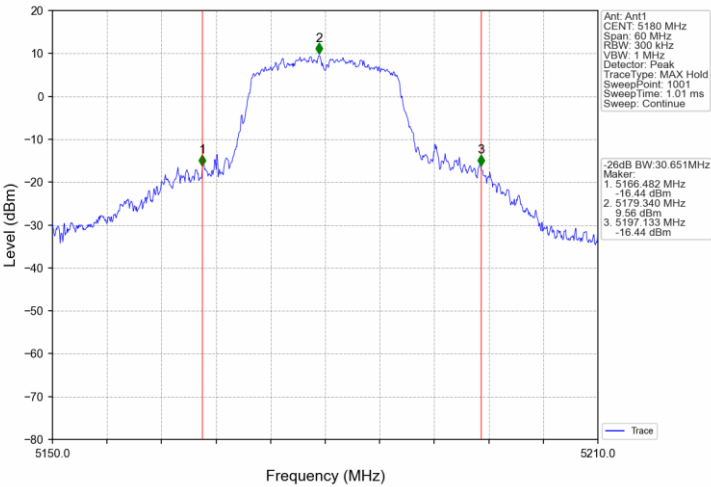
26dB Bandwidth Test result:

Mode	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
			Result	Limit	
802.11a	5180	B	30.651	/	Pass
	5200	B	37.324	/	Pass
	5240	B	37.841	/	Pass
	5260	B	39.754	/	Pass
	5300	B	41.094	/	Pass
	5320	B	33.098	/	Pass
	5500	B	32.808	/	Pass
	5580	B	31.490	/	Pass
	5700	B	20.458	/	Pass
	5720 UNII-2C	B	15.215	/	Pass
	5720 UNII-3	B	5.273	/	Pass
802.11n (HT20)	5180	B	20.589	/	Pass
	5200	B	20.530	/	Pass
	5240	B	20.630	/	Pass
	5260	B	20.636	/	Pass
	5300	B	20.741	/	Pass
	5320	B	20.671	/	Pass
	5500	B	20.494	/	Pass
	5580	B	20.563	/	Pass
	5700	B	20.498	/	Pass
	5720 UNII-2C	B	15.259	/	Pass
	5720 UNII-3	B	5.339	/	Pass
802.11n (HT40)	5190	B	41.508	/	Pass
	5230	B	41.645	/	Pass
	5270	B	41.987	/	Pass
	5310	B	41.414	/	Pass
	5510	B	41.416	/	Pass
	5550	B	41.506	/	Pass
	5670	B	41.614	/	Pass
	5710 UNII-2C	B	35.682	/	Pass
	5710 UNII-3	B	5.951	/	Pass
802.11ac (VHT20)	5180	B	20.565	/	Pass
	5200	B	20.552	/	Pass
	5240	B	20.563	/	Pass
	5260	B	20.602	/	Pass
	5300	B	20.882	/	Pass
	5320	B	20.525	/	Pass
	5500	B	20.474	/	Pass
	5580	B	20.514	/	Pass
	5700	B	20.576	/	Pass
	5720 UNII-2C	B	15.263	/	Pass
	5720 UNII-3	B	5.332	/	Pass
802.11ac (VHT40)	5190	B	41.560	/	Pass
	5230	B	41.739	/	Pass
	5270	B	41.805	/	Pass
	5310	B	41.676	/	Pass
	5510	B	41.424	/	Pass
	5550	B	41.730	/	Pass
	5670	B	41.761	/	Pass
	5710 UNII-2C	B	35.844	/	Pass
	5710 UNII-3	B	5.989	/	Pass
802.11ac (VHT80)	5210	B	81.865	/	Pass
	5290	B	82.020	/	Pass
	5530	B	82.203	/	Pass
	5610	B	82.044	/	Pass
	5690 UNII-2C	B	75.710	/	Pass
	5690 UNII-3	B	6.125	/	Pass
802.11a	5180	A	20.234	/	Pass
	5200	A	20.447	/	Pass
	5240	A	20.578	/	Pass

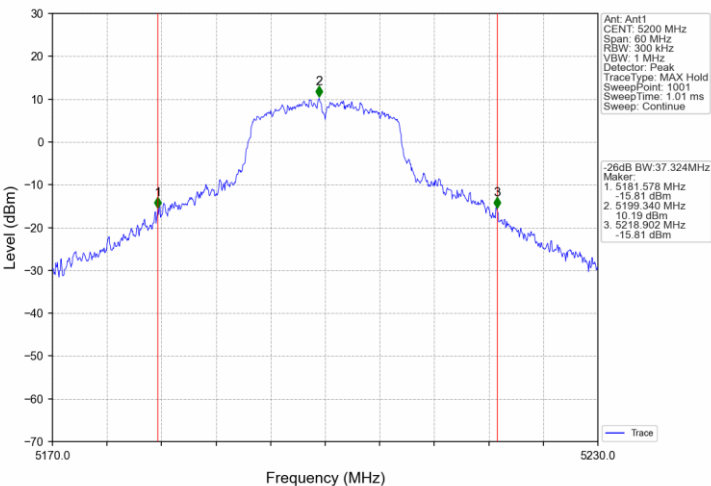
	5260	A	20.535	/	Pass
	5300	A	25.504	/	Pass
	5320	A	20.315	/	Pass
	5500	A	20.077	/	Pass
	5580	A	25.411	/	Pass
	5700	A	20.731	/	Pass
	5720 UNII-2C	A	15.231	/	Pass
	5720 UNII-3	A	5.394	/	Pass
802.11n (HT20)	5180	A	20.406	/	Pass
	5200	A	20.349	/	Pass
	5240	A	20.445	/	Pass
	5260	A	20.372	/	Pass
	5300	A	20.436	/	Pass
	5320	A	20.300	/	Pass
	5500	A	20.374	/	Pass
	5580	A	20.470	/	Pass
	5700	A	20.467	/	Pass
	5720 UNII-2C	A	15.197	/	Pass
	5720 UNII-3	A	5.388	/	Pass
802.11n (HT40)	5190	A	41.541	/	Pass
	5230	A	41.192	/	Pass
	5270	A	41.358	/	Pass
	5310	A	41.256	/	Pass
	5510	A	41.427	/	Pass
	5550	A	41.452	/	Pass
	5670	A	41.391	/	Pass
	5710 UNII-2C	A	35.601	/	Pass
	5710 UNII-3	A	5.759	/	Pass
802.11ac (VHT20)	5180	A	20.185	/	Pass
	5200	A	20.189	/	Pass
	5240	A	20.266	/	Pass
	5260	A	20.324	/	Pass
	5300	A	20.316	/	Pass
	5320	A	20.189	/	Pass
	5500	A	20.232	/	Pass
	5580	A	20.445	/	Pass
	5700	A	20.289	/	Pass
	5720 UNII-2C	A	15.120	/	Pass
	5720 UNII-3	A	5.267	/	Pass
802.11ac (VHT40)	5190	A	41.294	/	Pass
	5230	A	41.309	/	Pass
	5270	A	41.318	/	Pass
	5310	A	41.211	/	Pass
	5510	A	41.103	/	Pass
	5550	A	41.381	/	Pass
	5670	A	41.368	/	Pass
	5710 UNII-2C	A	35.773	/	Pass
	5710 UNII-3	A	5.850	/	Pass
802.11ac (VHT80)	5210	A	80.864	/	Pass
	5290	A	81.070	/	Pass
	5530	A	80.608	/	Pass
	5610	A	80.973	/	Pass
	5690 UNII-2C	A	75.206	/	Pass
	5690 UNII-3	A	5.567	/	Pass

26dB Bandwidth Test Graphs

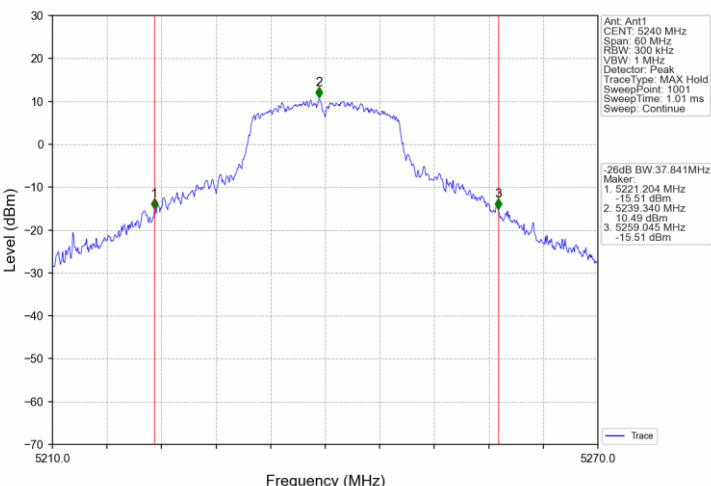
802.11a_LCH_5180MHz_AntB_NTNV



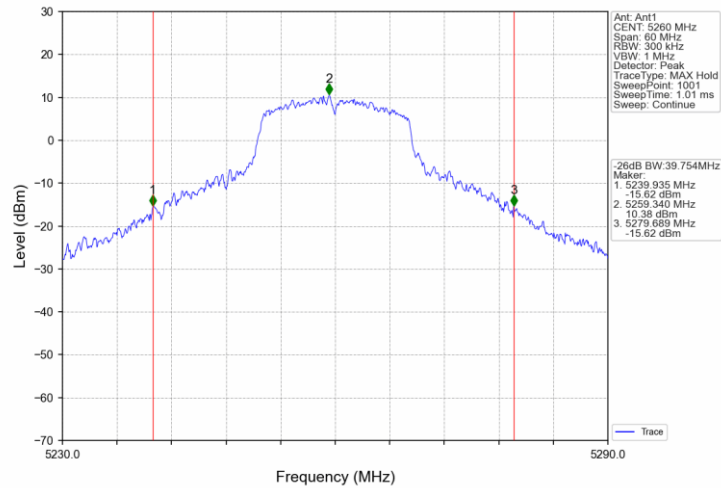
802.11a_MCH_5200MHz_AntB_NTNV



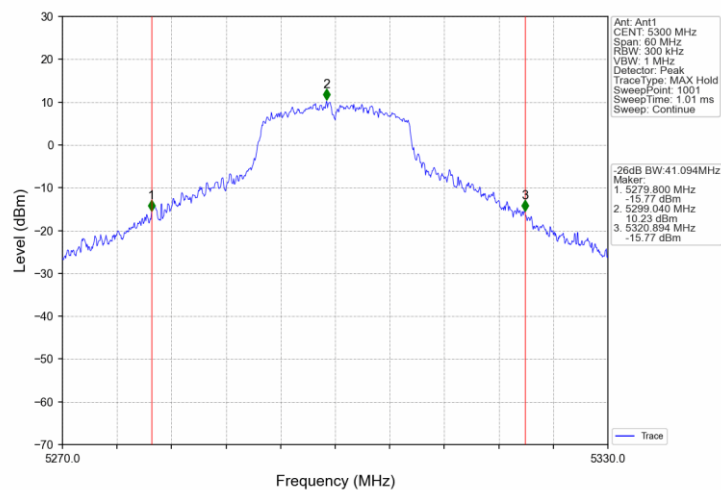
802.11a_HCH_5240MHz_AntB_NTNV



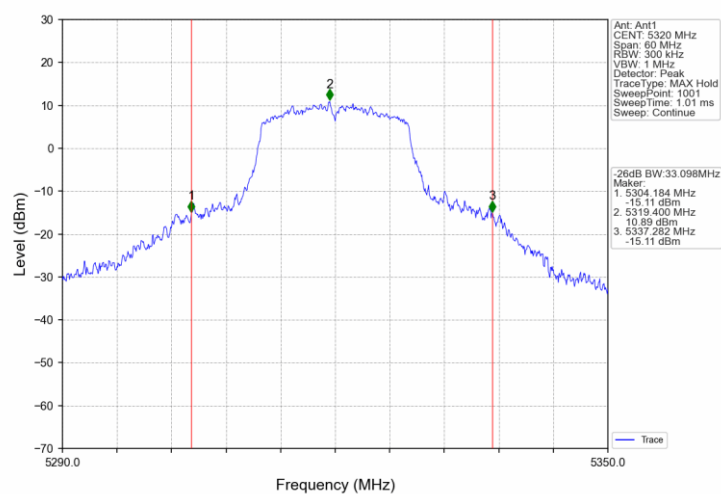
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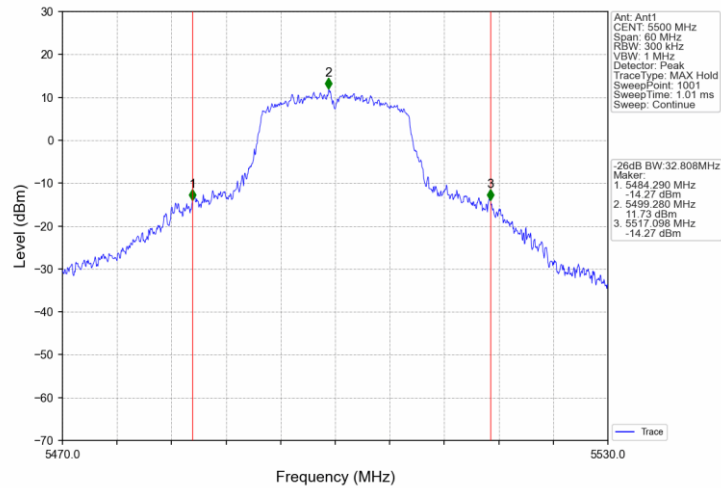
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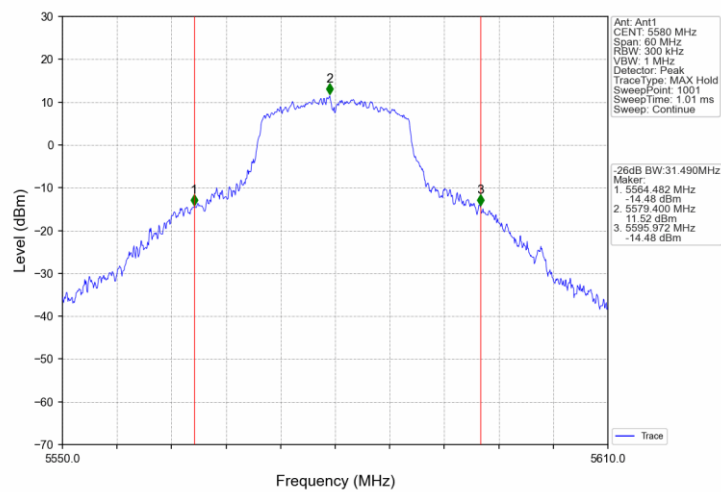
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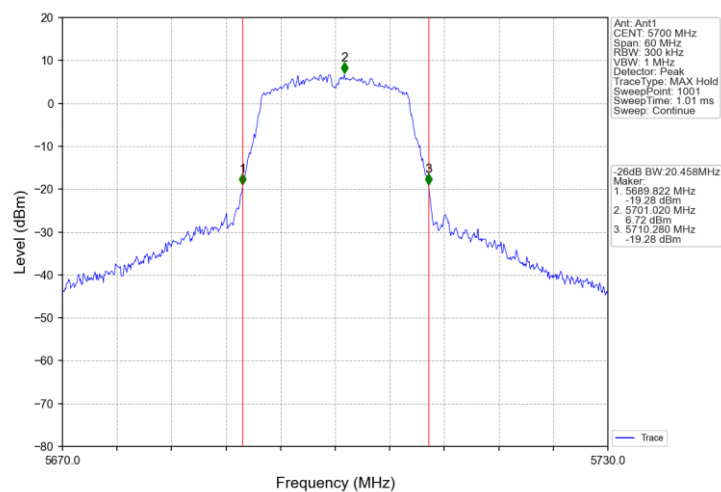
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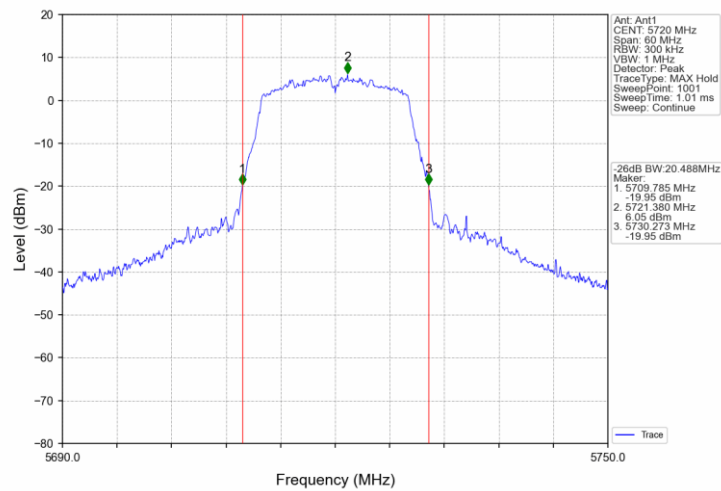
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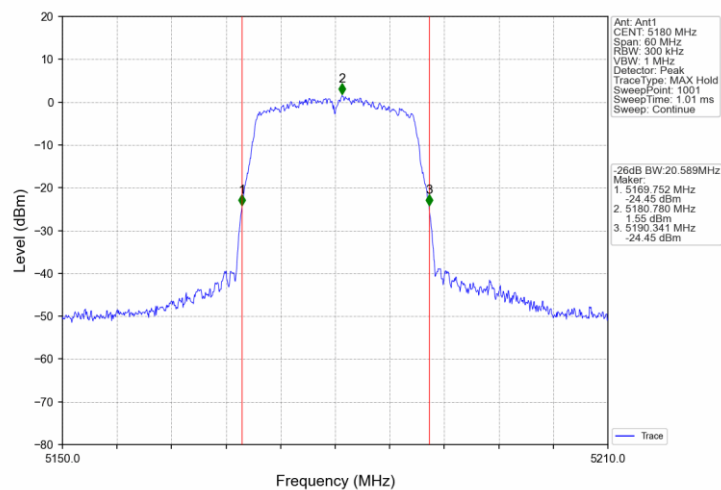
802.11a_HCH_5700MHz_AntB_NTNV



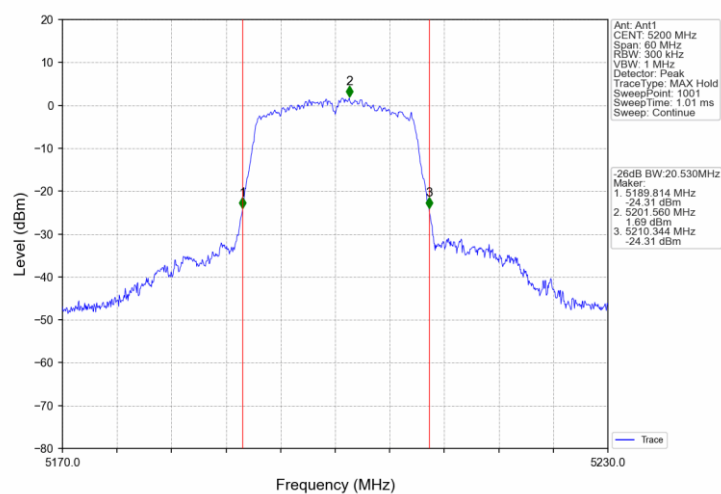
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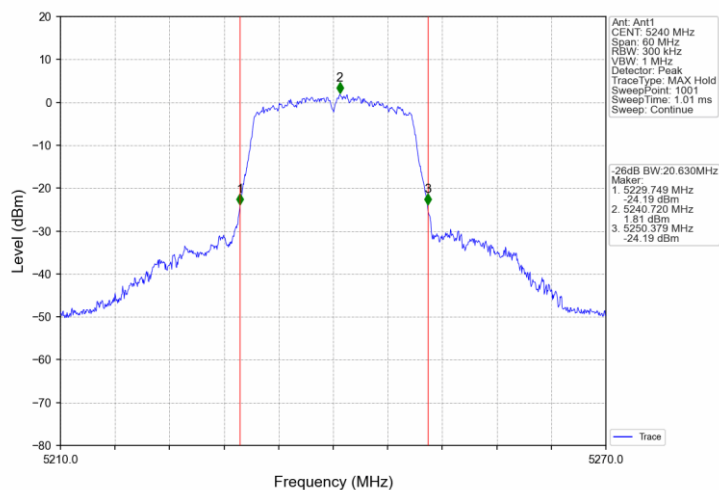
802.11n(HT20) LCH_5180MHz_AntB_NTNV



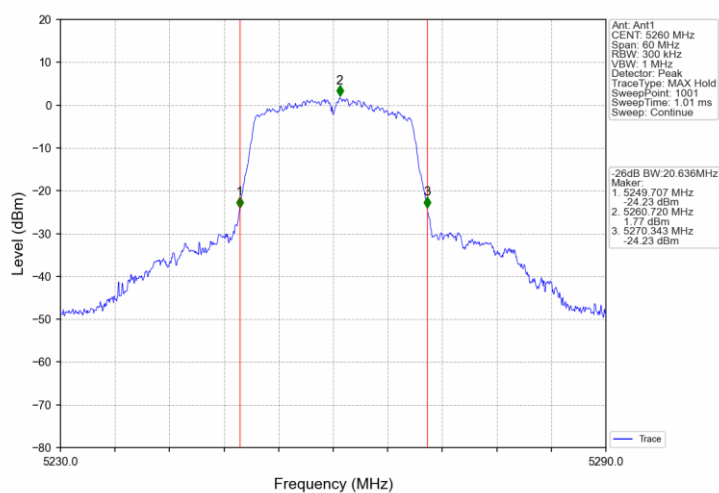
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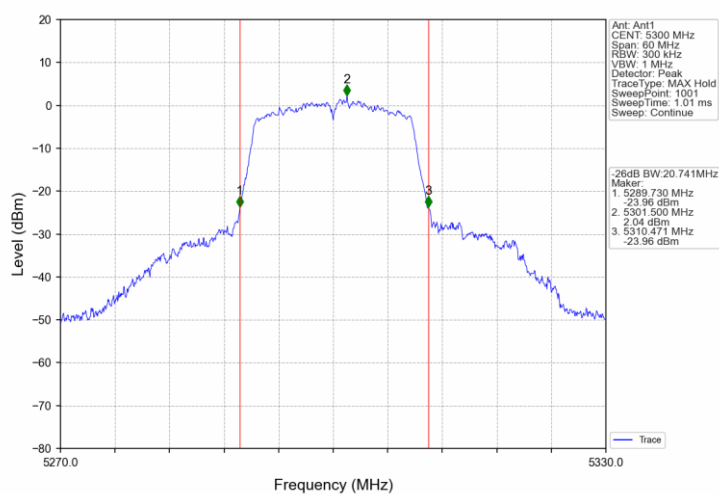
802.11n(HT20) HCH_5240MHz_AntB_NTNV



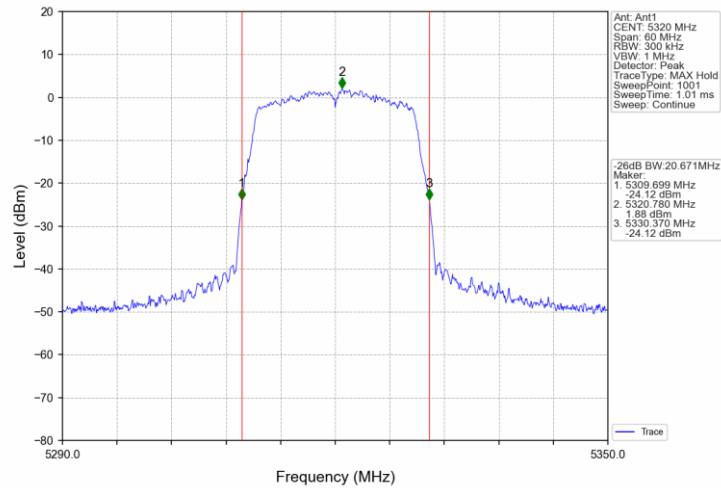
802.11n(HT20) LCH_5260MHz_AntB_NTNV



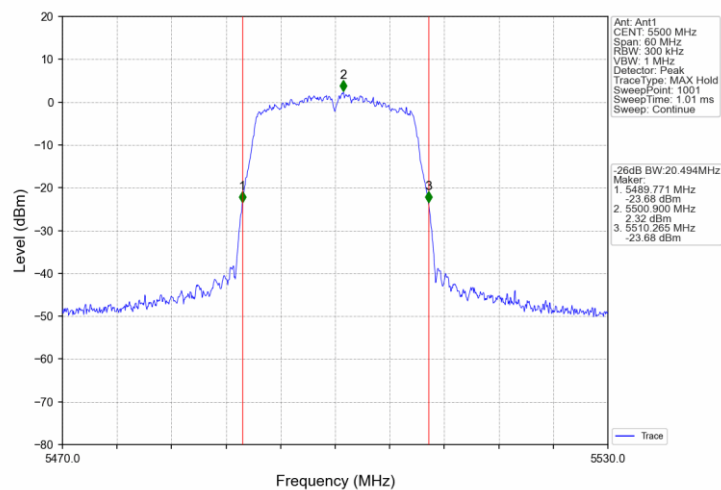
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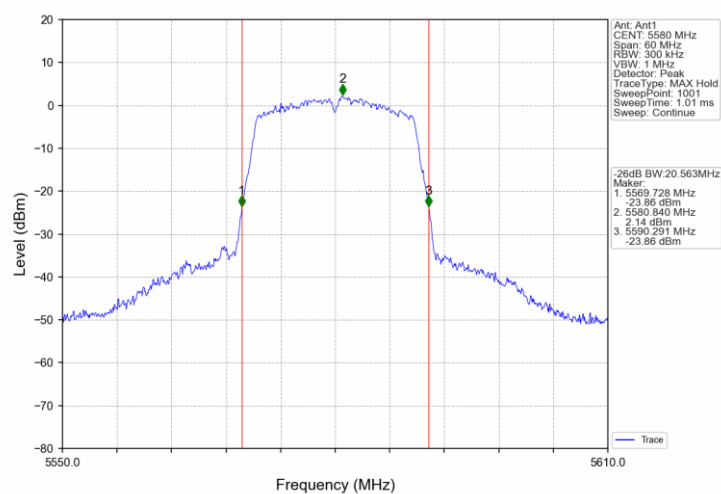
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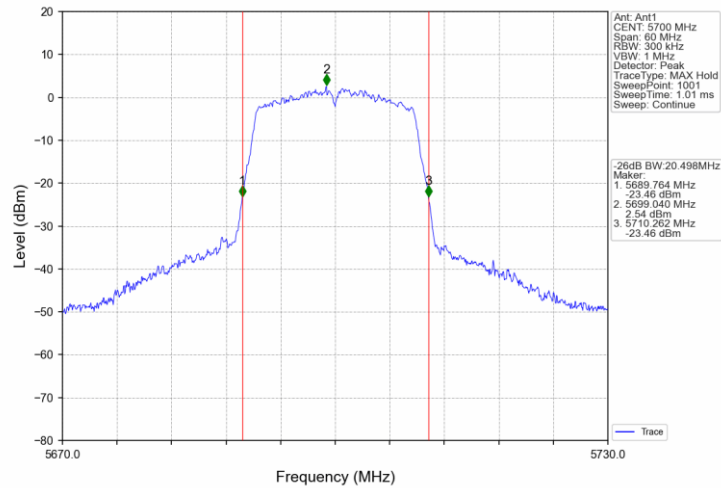
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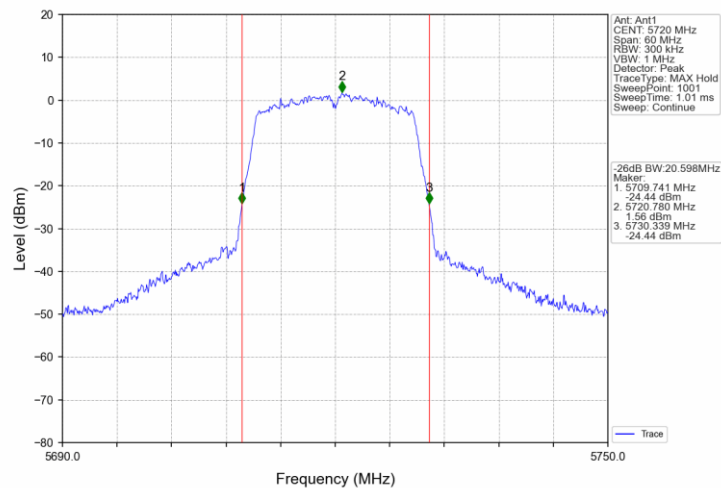
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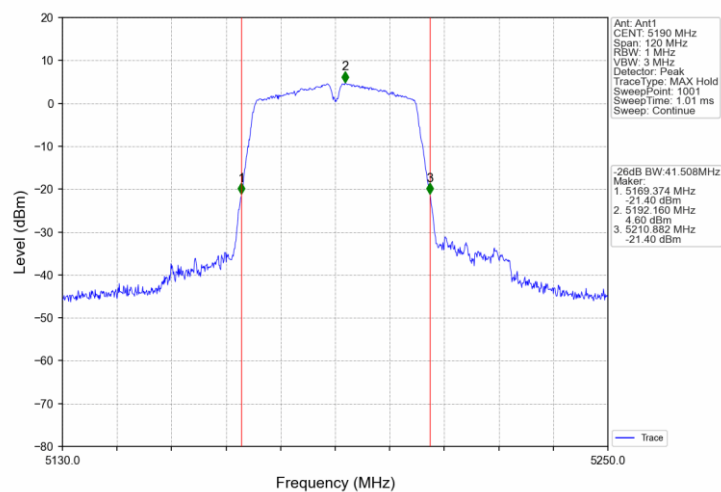
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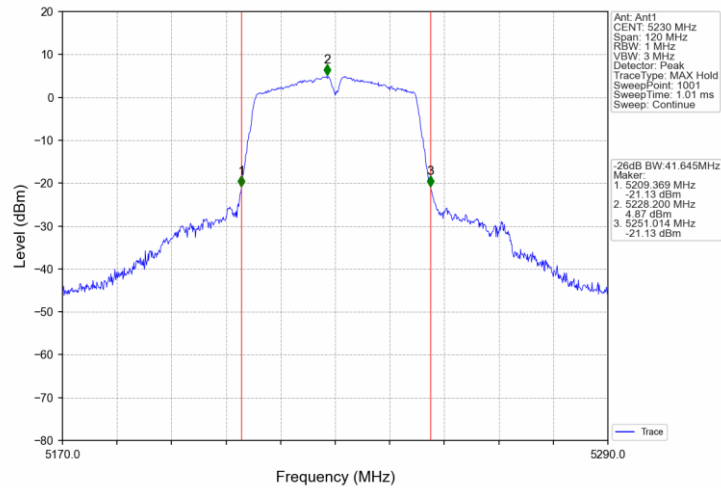
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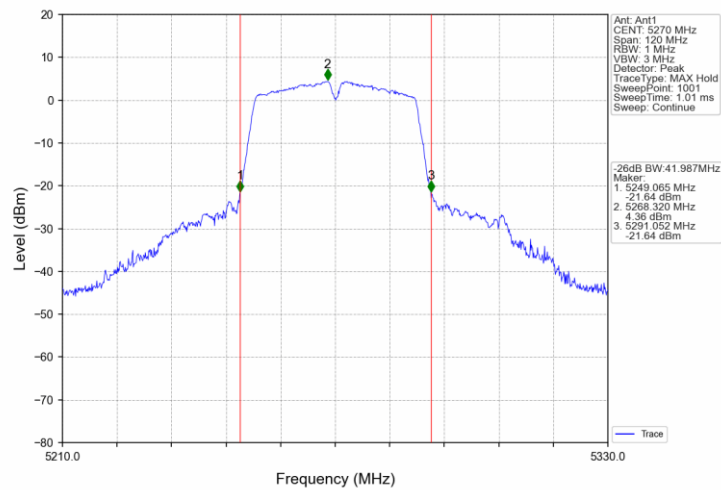
802.11n(HT40)_LCH_5190MHz_AntB_NTNV



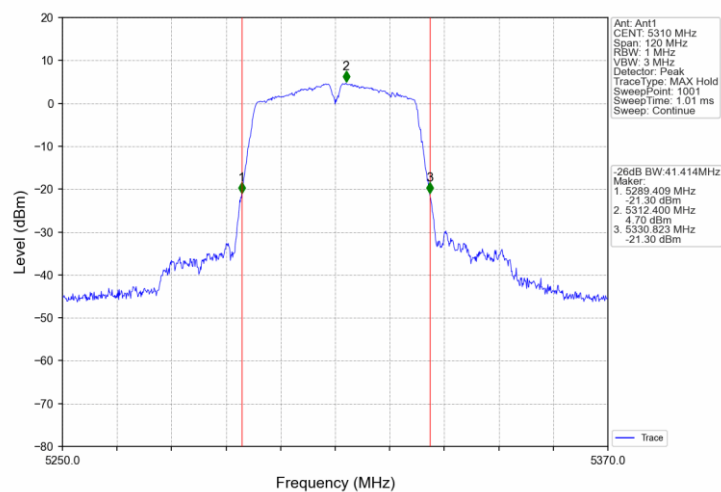
802.11n(HT40)_HCH_5230MHz_AntB_NTNV



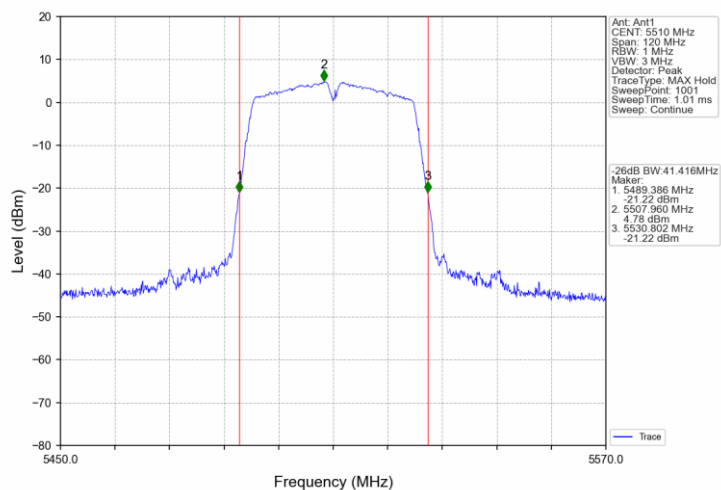
802.11n(HT40)_LCH_5270MHz_AntB_NTNV



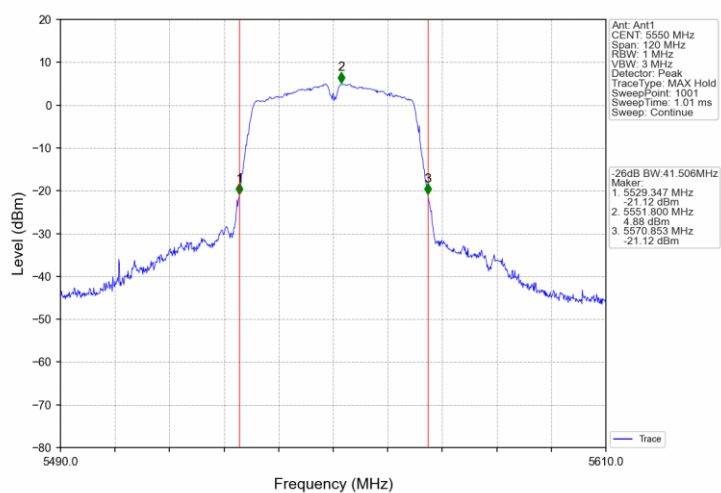
802.11n(HT40)_HCH_5310MHz_AntB_NTNV



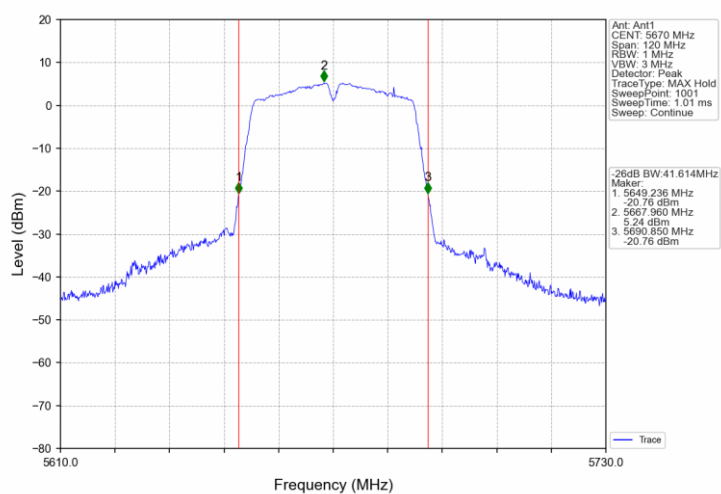
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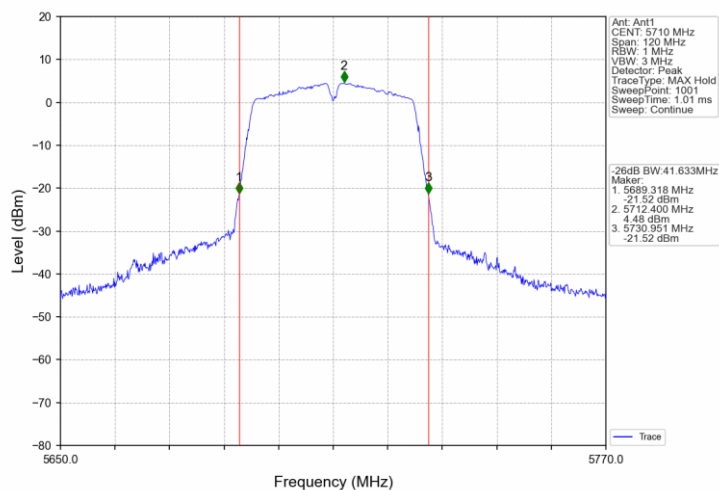
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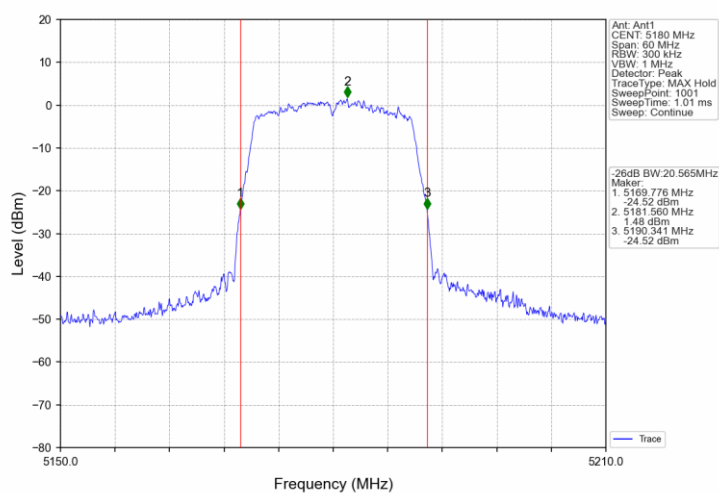
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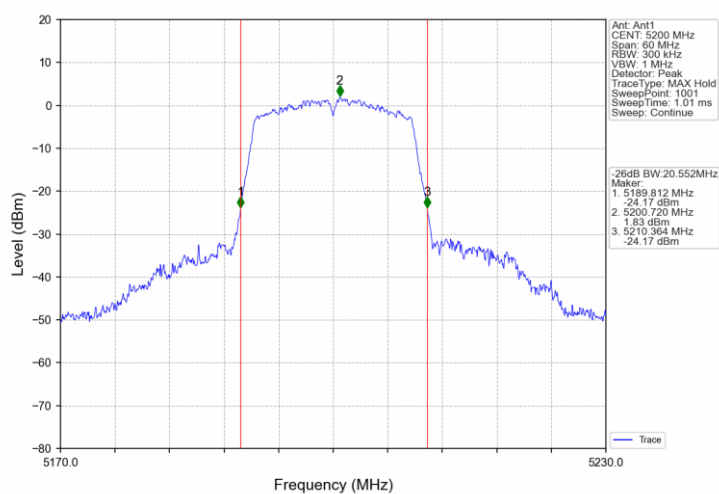
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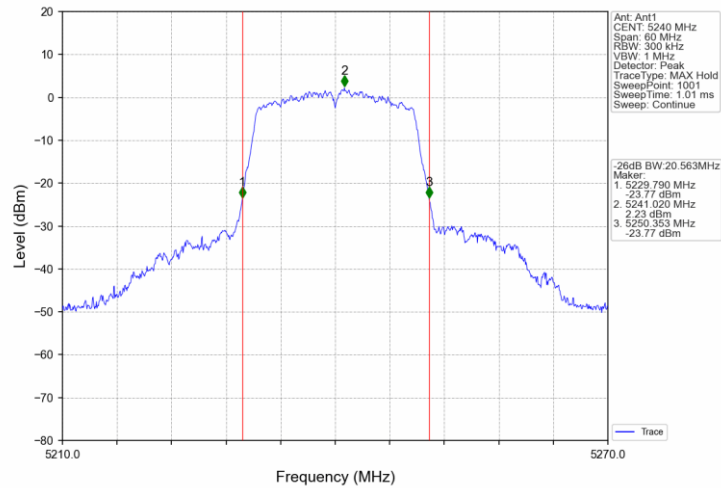
802.11ac(VHT20)_LCH_5180MHz_AntB_NTNV



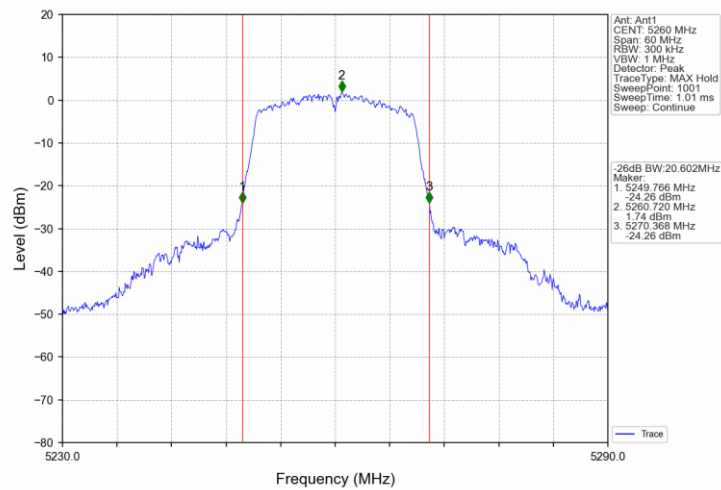
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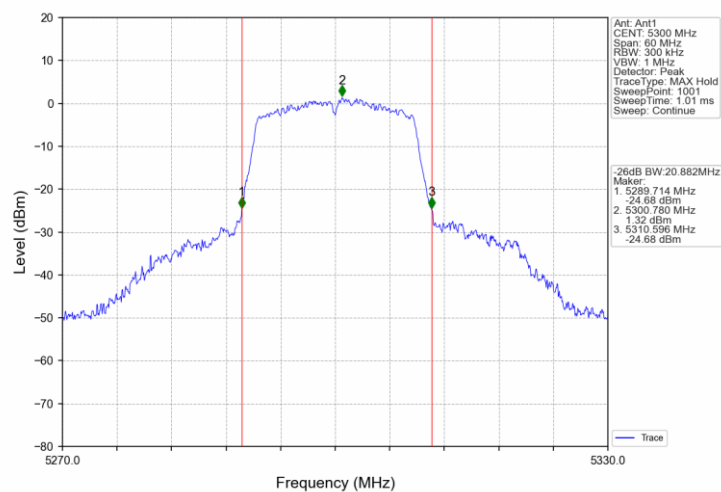
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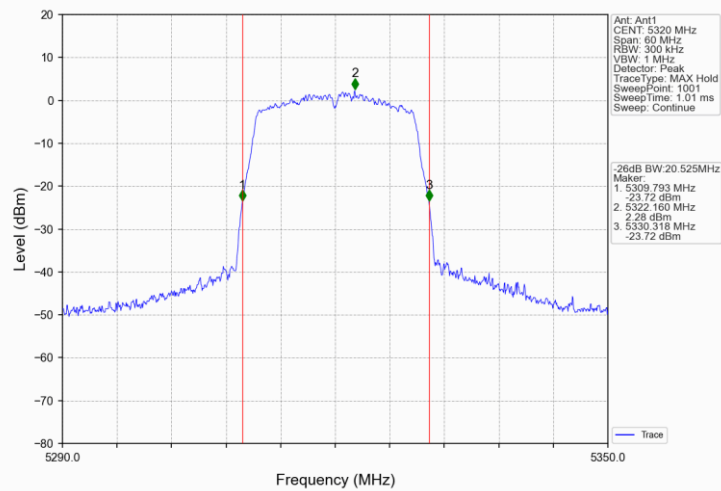
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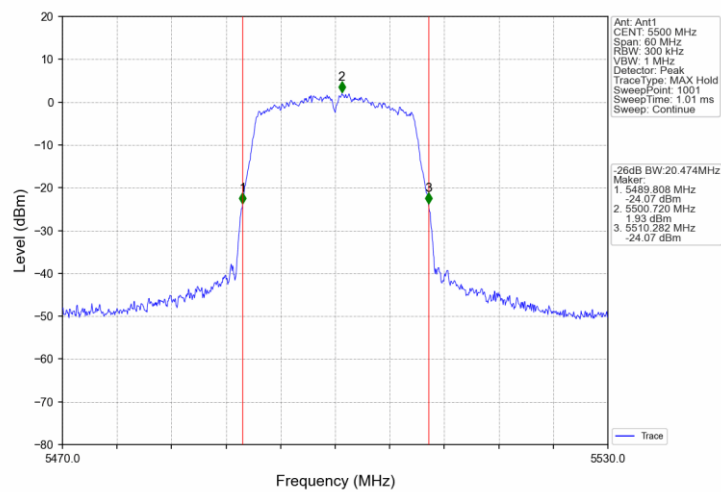
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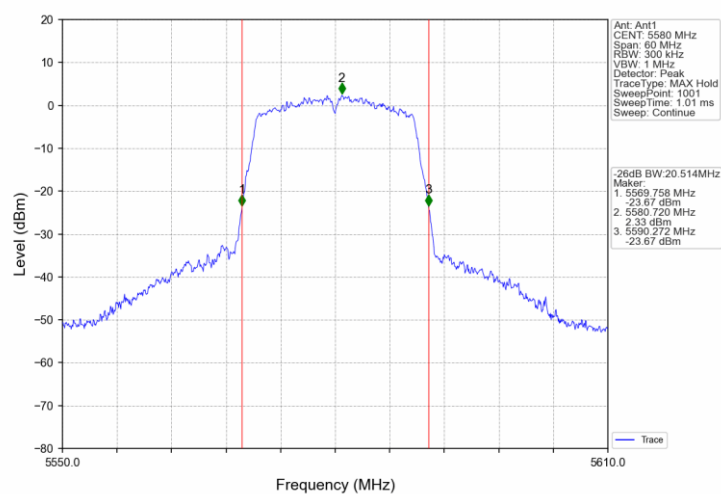
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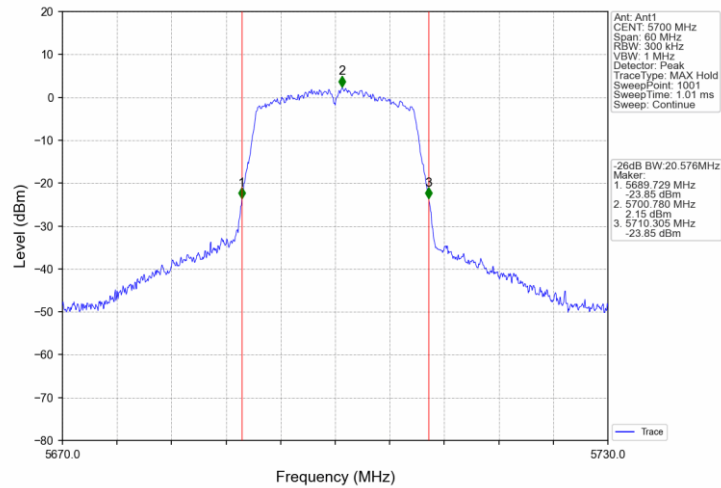
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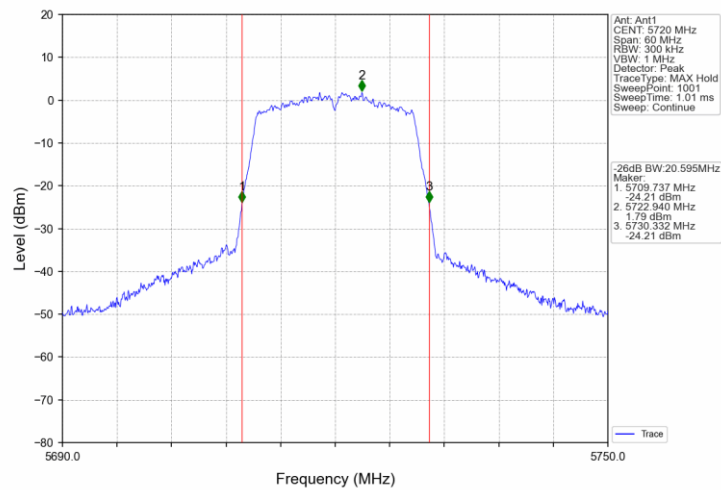
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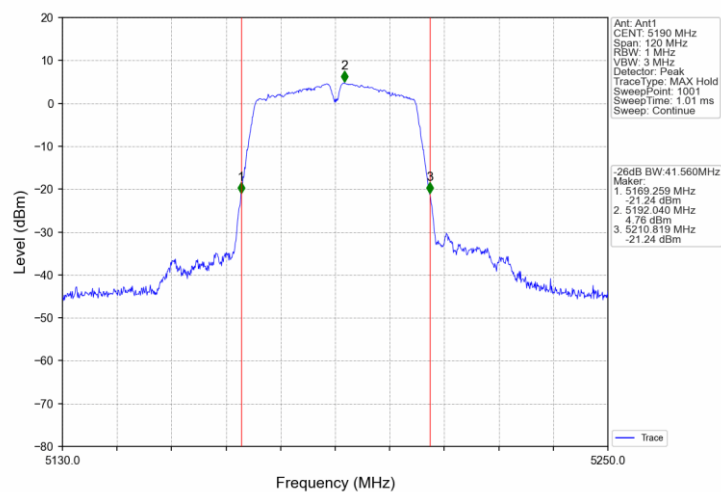
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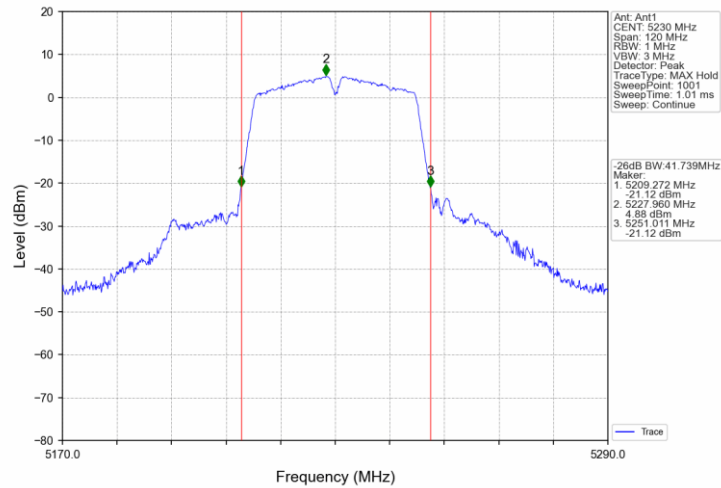
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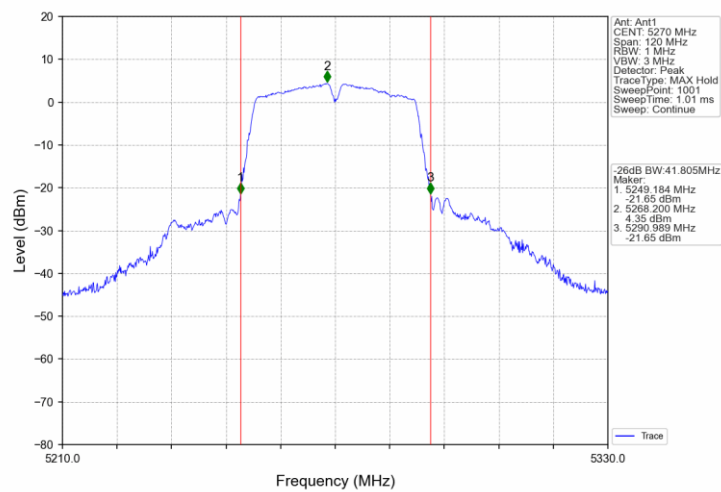
802.11ac(VHT40)_LCH_5190MHz_AntB_NTNV



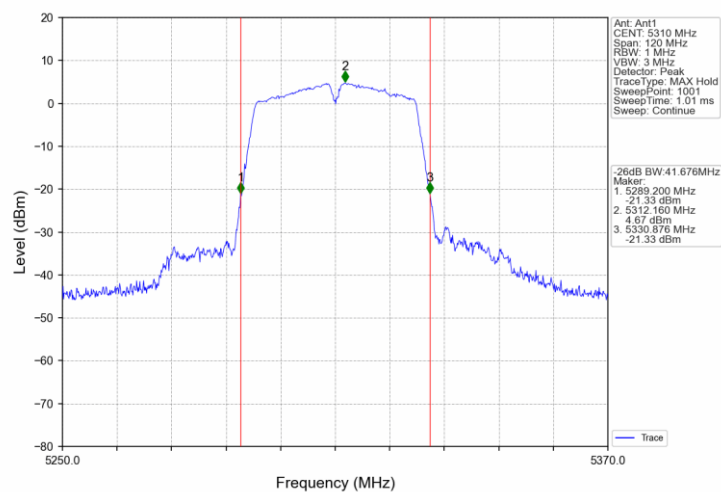
802.11ac(VHT40)_HCH_5230MHz_AntB_NTNV



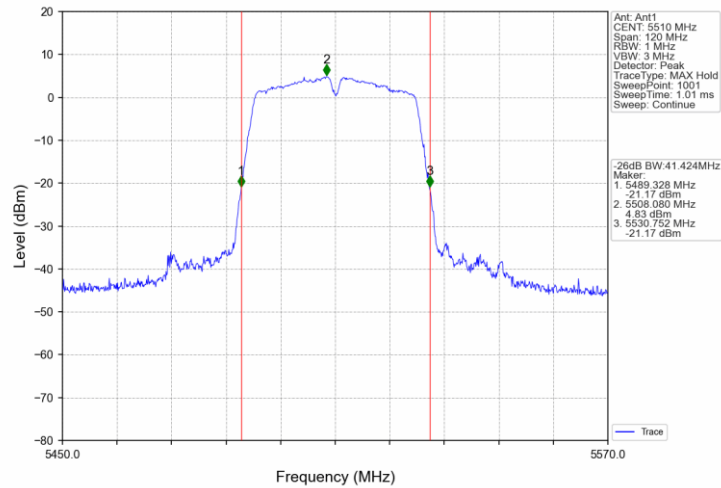
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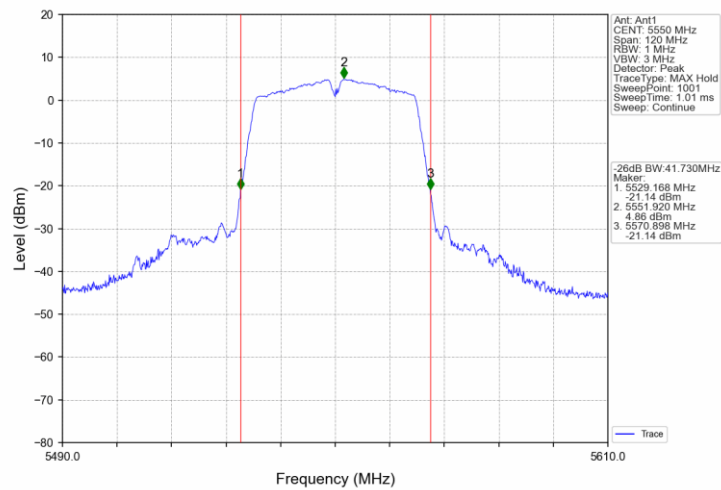
802.11ac(VHT40)_HCH_5310MHz_AntB_NTNV



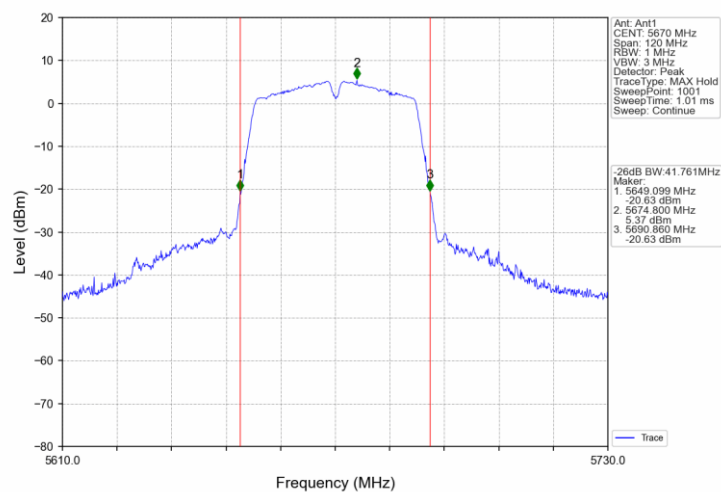
802.11ac(VHT40)_LCH_5510MHz_AntB_NTNV



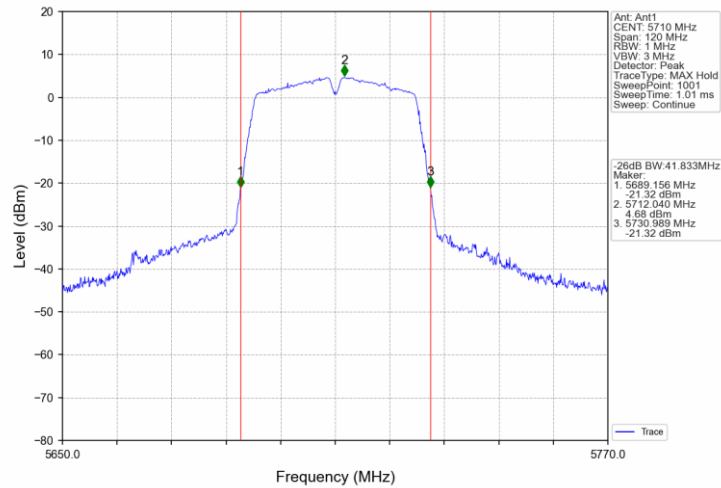
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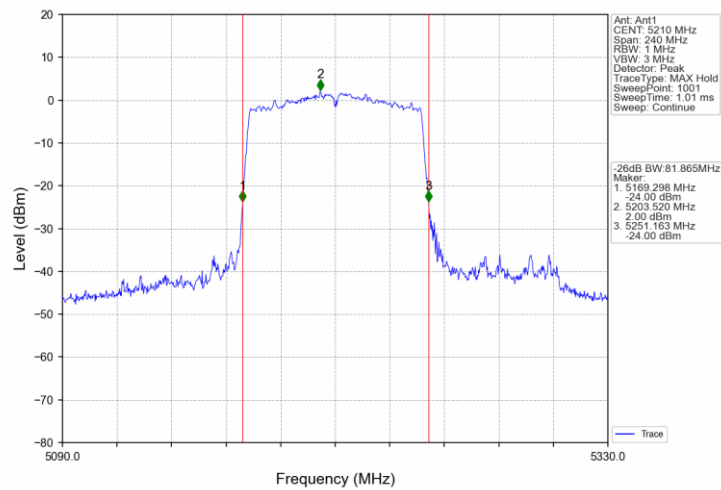
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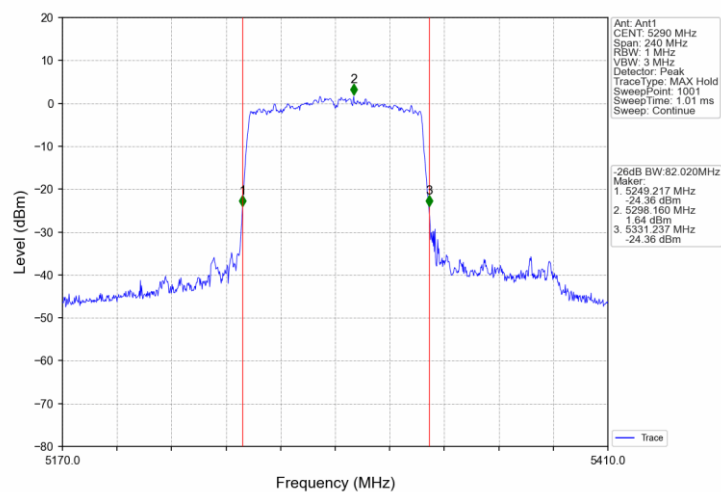
802.11ac(VHT40) HCH_5710MHz_AntB_NTNV



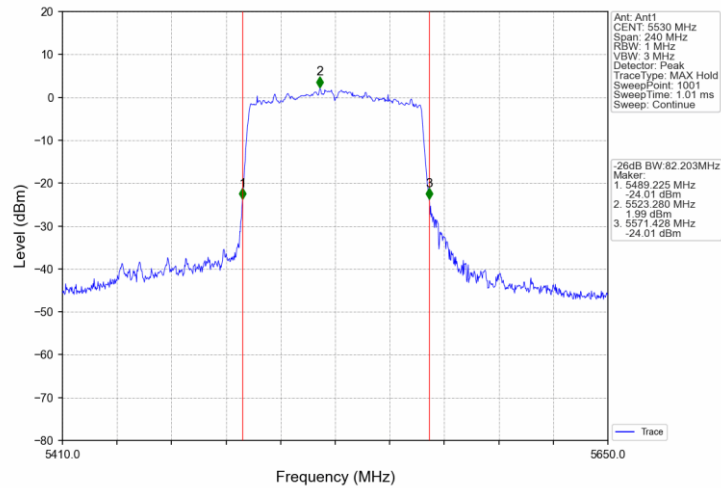
802.11ac(VHT80) MCH_5210MHz_AntB_NTNV



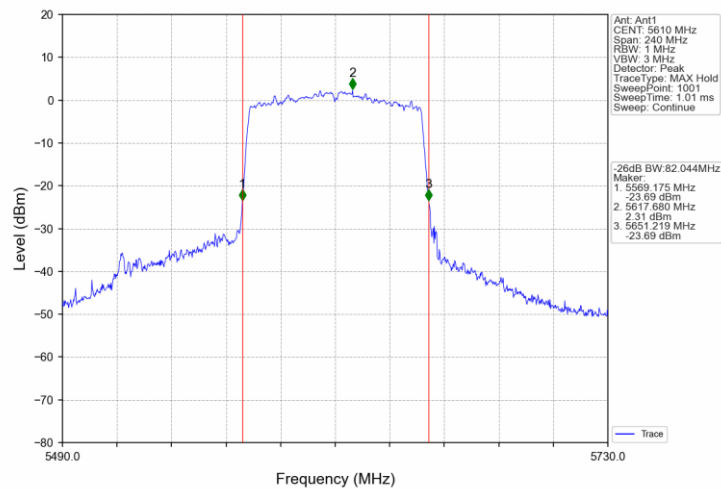
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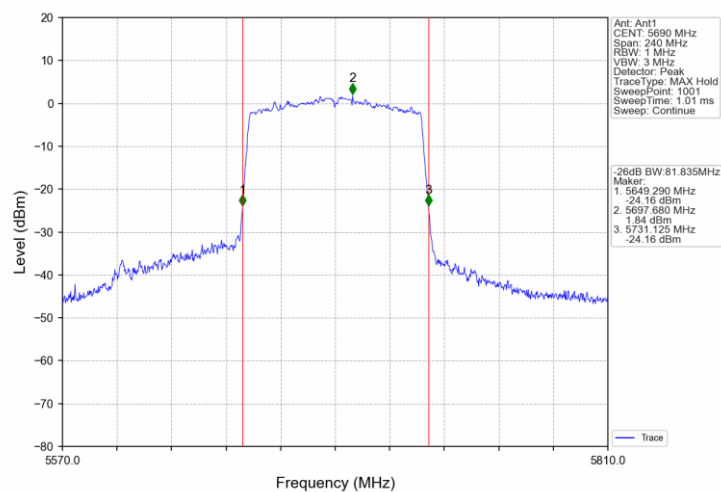
802.11ac(VHT80) LCH_5530MHz_AntB_NTNV



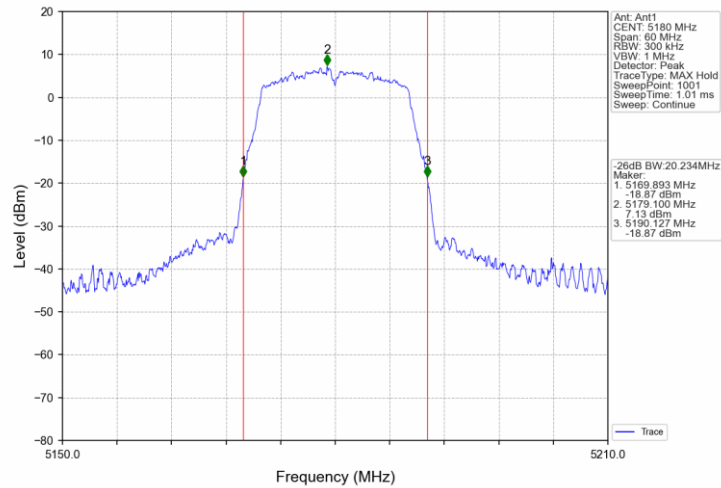
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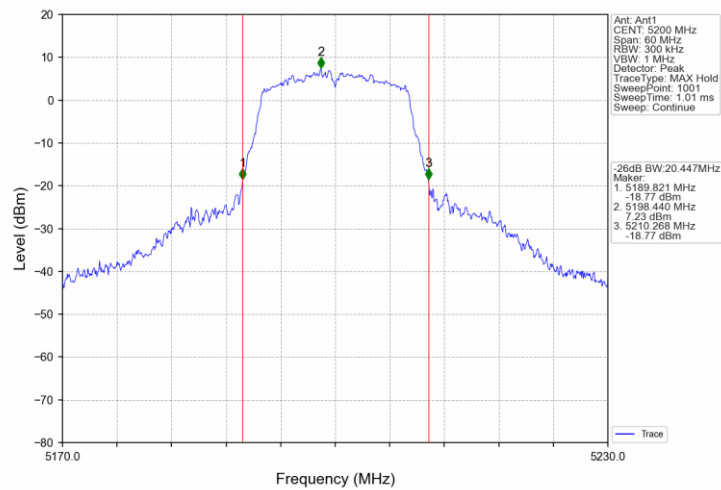
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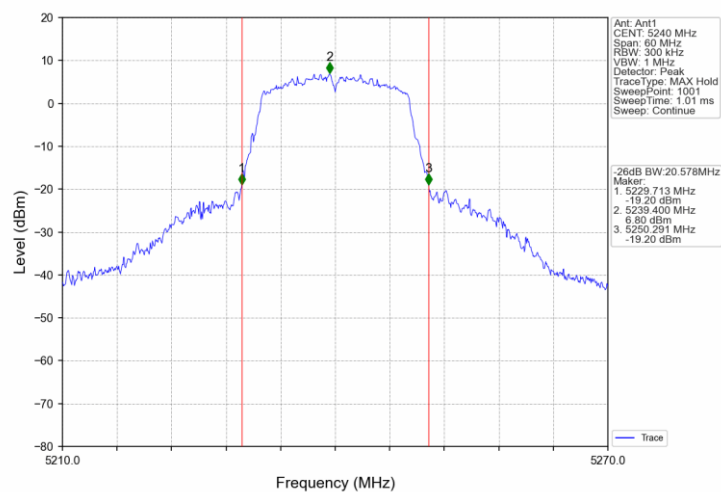
802.11a_LCH_5180MHz_AntA_NTNV



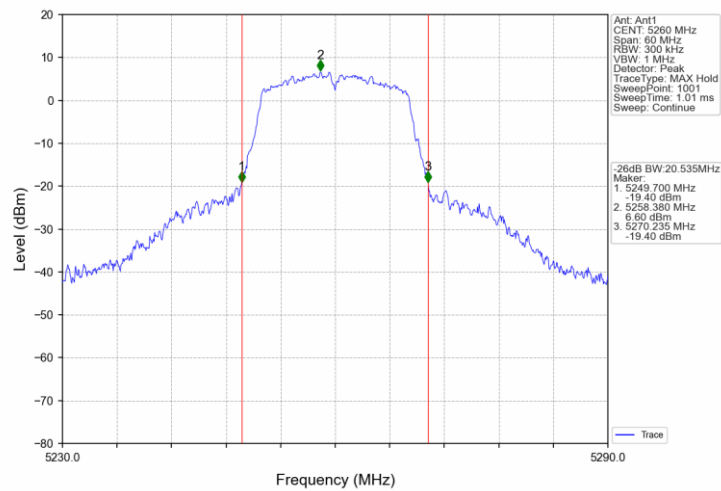
802.11a_MCH_5200MHz_AntA_NTNV



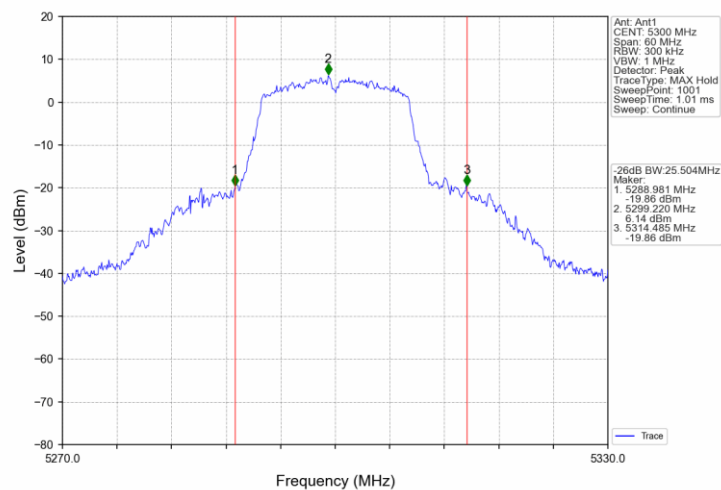
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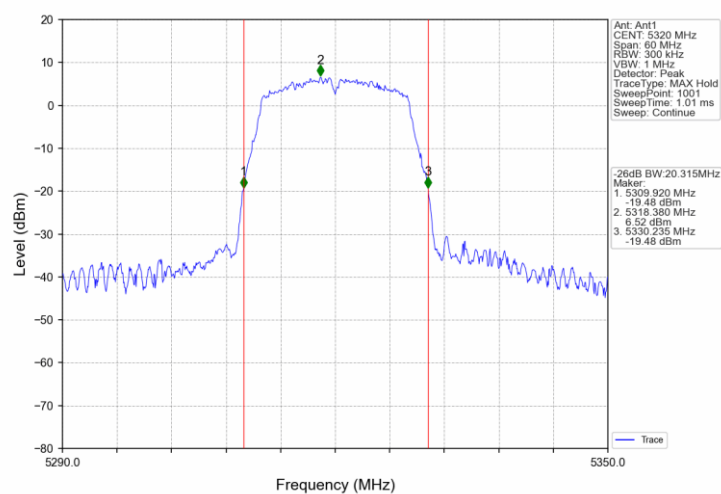
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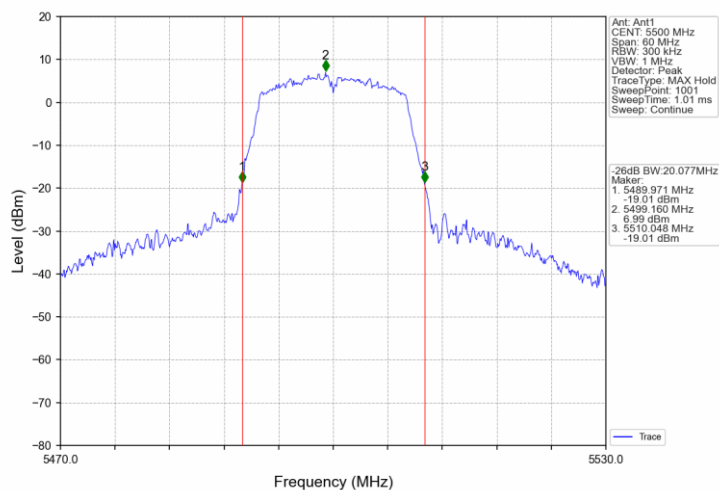
802.11a_MCH_5300MHz_AntA_NTNV



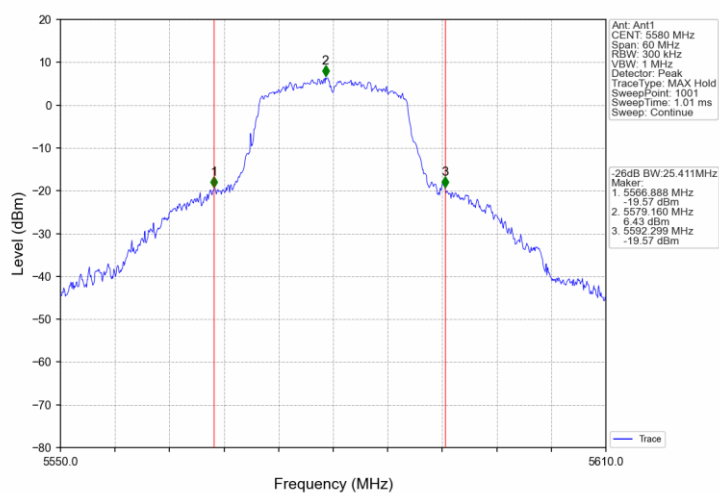
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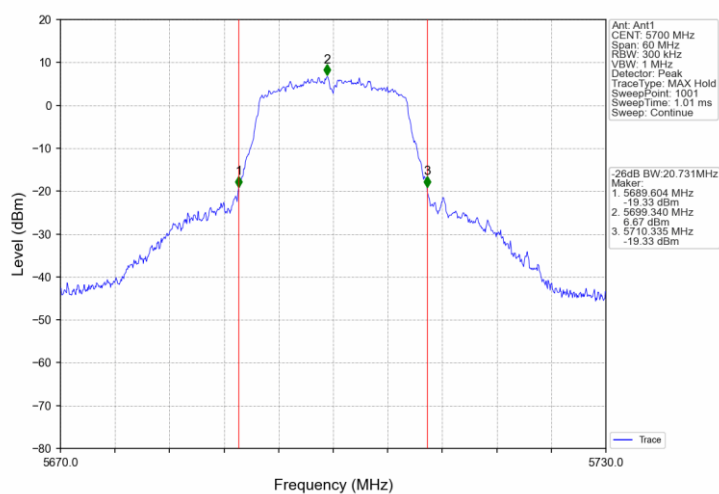
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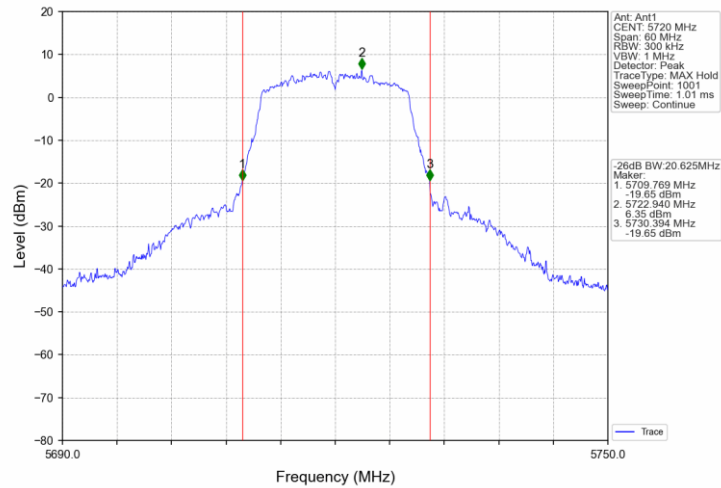
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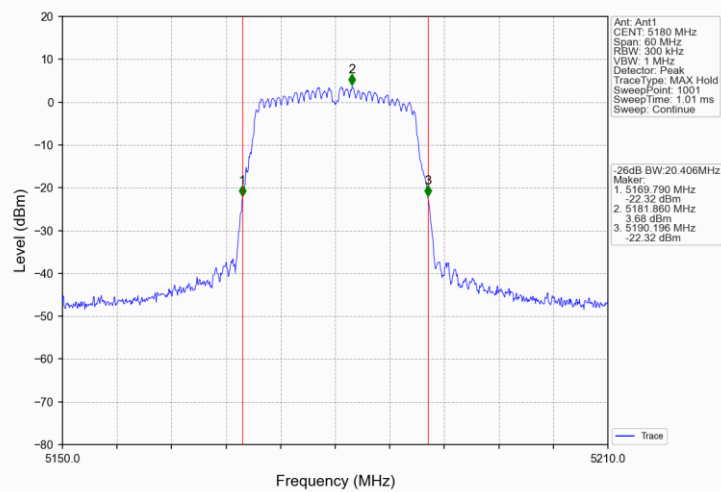
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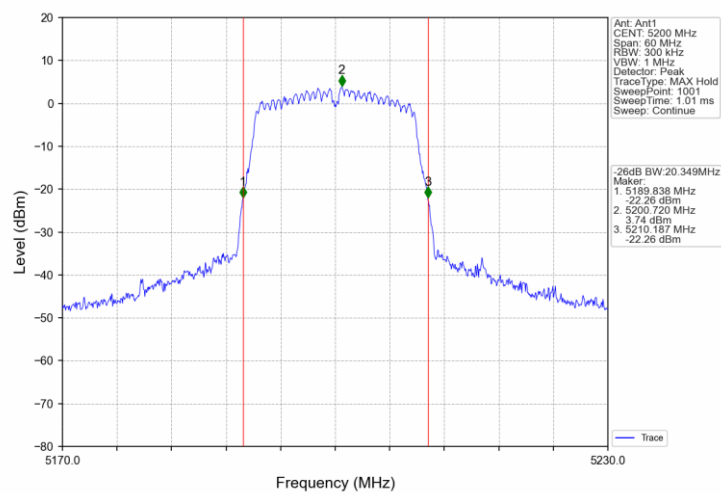
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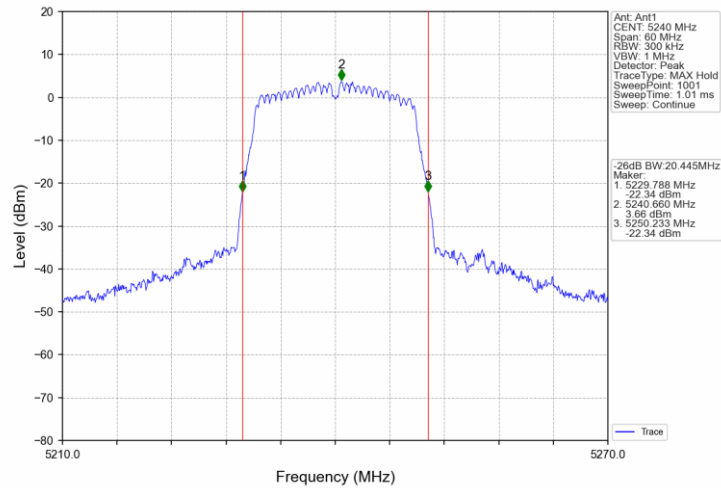
802.11n(HT20) LCH_5180MHz_AntA_NTNV



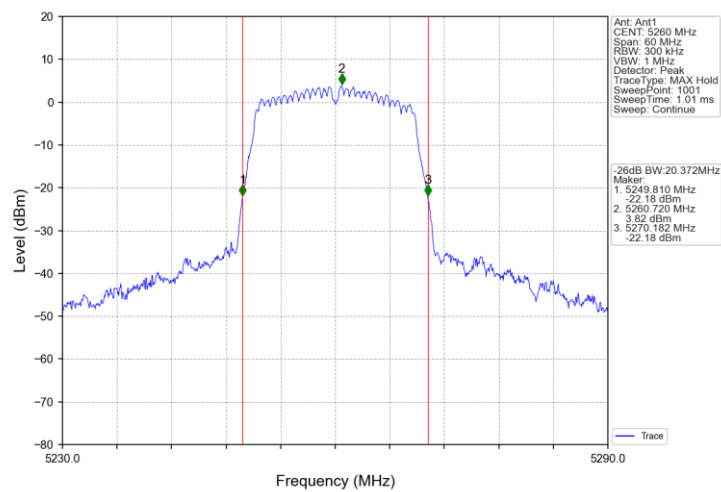
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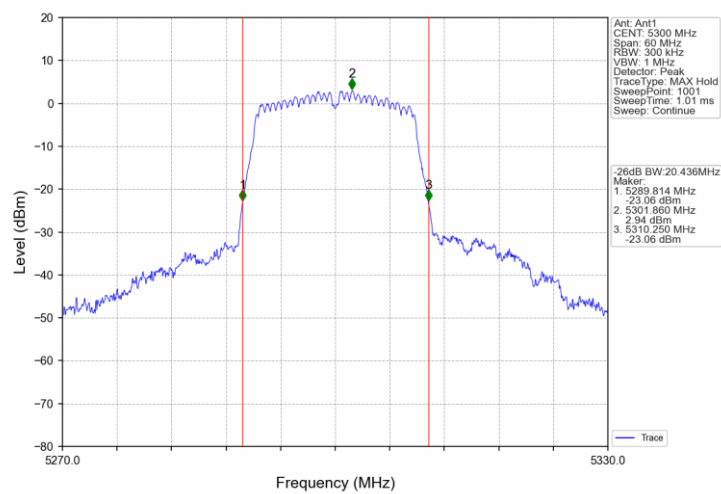
802.11n(HT20) HCH_5240MHz_AntA_NTNV



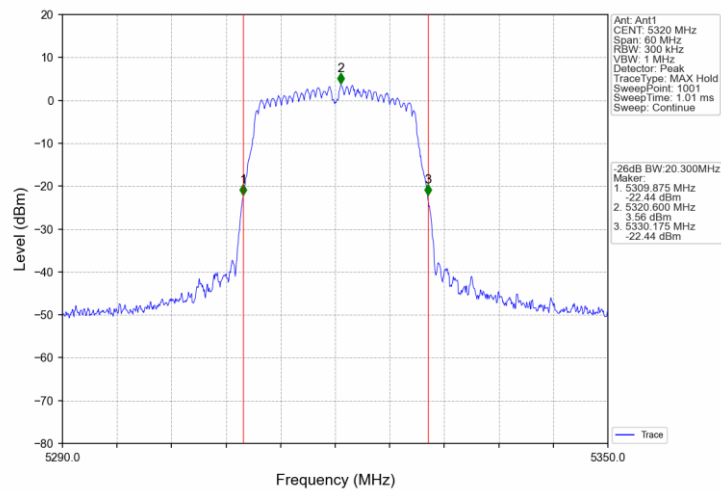
802.11n(HT20) LCH_5260MHz_AntA_NTNV



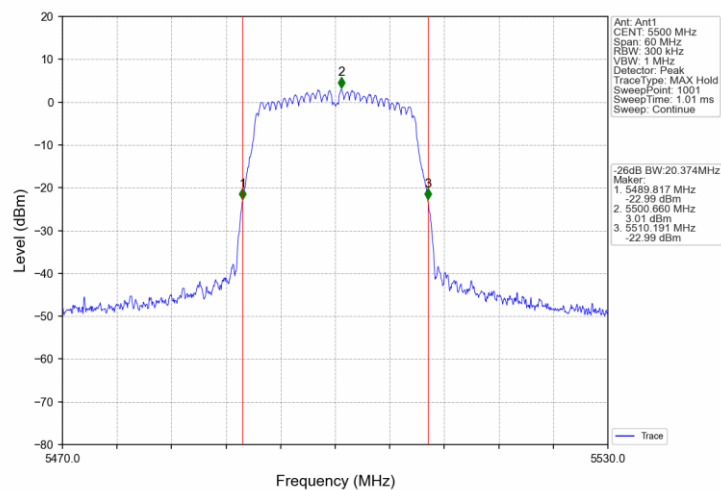
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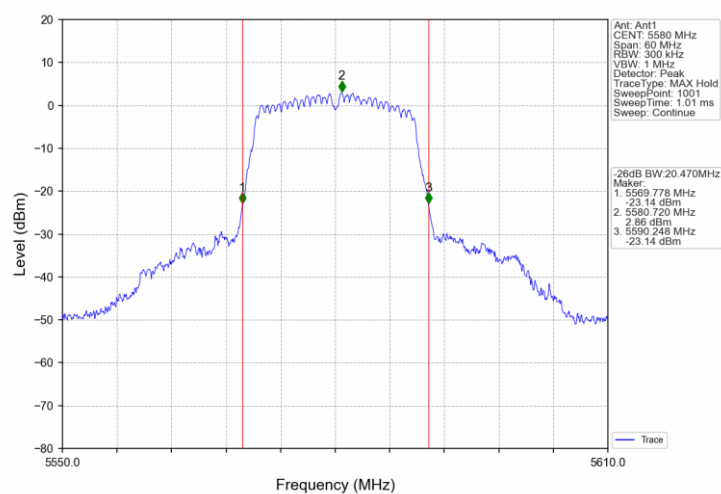
802.11n(HT20) HCH_5320MHz_AntA_NTNV



802.11n(HT20) LCH_5500MHz_AntA_NTNV



802.11n(HT20) MCH_5580MHz_AntA_NTNV



802.11n(HT20) HCH_5700MHz_AntA_NTNV