

FCC - TEST REPORT

Report Number : **68.950.24.0556.01** Date of Issue: **2024-07-17**

Model : **Altos BrainSphere P1 F9**

Product Type : All-in-One PCs

Applicant : ALTOS COMPUTING INDIA PRIVATE LIMITED

Address : 6th Floor, No. 13, Embassy Heights, Magrath Road, Karnataka,
Bengaluru, 560025, India

Manufacturer : ALTOS COMPUTING INDIA PRIVATE LIMITED

Address : 6th Floor, No. 13, Embassy Heights, Magrath Road, Karnataka,
Bengaluru, 560025, India

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : **405**

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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 City, 518052, P. R. China

Telephone: 86 755 8828 6998
Fax: 86 755 828 5299

FCC Registration No.: 514049

FCC Designation No.: CN5009

2. Description of the Equipment Under Test

Product:	All-in-One PCs
Model no.:	Altos BrainSphere P1 F9
FCC ID:	2BHDD-AQ67ALTOSP1F9
Rating:	19VDC, 7.9A (powered by adapter)
Accessories:	Adapter Model: HKA15019079-6C Input: 100-240VAC 50/60Hz, 2.0A, Output: 19VDC, 7.9A Manufacturer: Shenzhen Huntkey Electric Co., Ltd.
RF Transmission Frequency:	5.180GHz~5.240GHz; 5.260GHz~5.320GHz; 5.500GHz~5.720GHz; 5.745GHz~5.825GHz
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Antenna Type:	Internal Integrated Metal Antenna
Antenna Gain:	3.05dBi max for 5GHz Ant1 3.41dBi max for 5GHz Ant2 Note: Antenna 1 and Antenna 2 support MIMO mode, so directional gain value as below: $\text{Directional Gain} = 10 * \log[(10^{3.05/20} + 10^{3.41/20})^2 / 2] = 6.24\text{dBi}$
Description of the EUT:	The Equipment Under Test (EUT) is an All-in-One PCs supports Bluetooth Low Energy / Bluetooth BR+EDR/ Wi-Fi functions

3. Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E 10-1-2023 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Intentional Radiators

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	Conducted Emission AC Power Port	☒	☐	☐
§15.407(a)(2)	Emission bandwidth	☒	☐	☐
§15.407(a)(1), §15.407(a)(3)	Maximum Conducted Output Power	☒	☐	☐
§15.407(a)(1), §15.407(a)(3)	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	Unwanted Emissions	☒	☐	☐
§15.407(b)(1), §15.407(b)(2), §15.407(b)(3), §15.407(b)(4)	Band edge compliance	☒	☐	☐
§15.407(g)	Frequencies Stability	☒	☐	☐
§15.407(h)	Dynamic Frequency Selection (DFS).	☒	☐	☐
§15.203	Antenna Requirement	☒ See note2	☐	☐

Note 1: N/A=Not Applicable.

Note 2: The EUT uses an Internal Antenna, which gain are 3.05dBi max for 5GHz Ant1, 3.41dBi max for 5GHz Ant2. In accordance to §15.203, 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: 2BHDD-AQ67ALTOSP1F9, complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C.

The Model: Altos BrainSphere P1 F9 supports Bluetooth Low Energy/Bluetooth BR+EDR/Wi-Fi functions.

The TX and RX range is 2402MHz-2480MHz for Bluetooth, 2412MHz – 2462MHz for 2.4GHz Wi-Fi, 5180MHz – 5320MHz, 5500MHz – 5700MHz, 5745MHz – 5825MHz for 5GHz Wi-Fi.

This report is for the 5GHz Wi-Fi part.

SUMMARY:

All tests according to the regulations cited on page 6 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

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

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

Sample Received Date: 2024-05-21

Testing Start Date: 2024-05-22

Testing End Date: 2024-06-24

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

Reviewed by:

Prepared by:

Tested by:



John Zhi
Project Manager



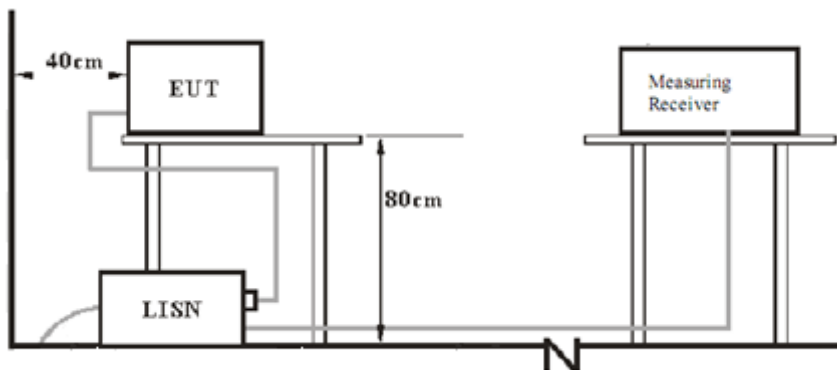
Joe Gu
Project Engineer



Carry Cai
Test Engineer

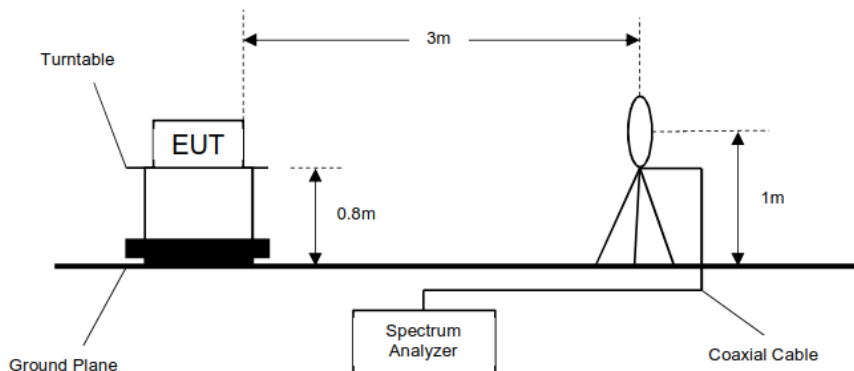
6. Test setups

7.1 AC Power Line Conducted Emission test setups

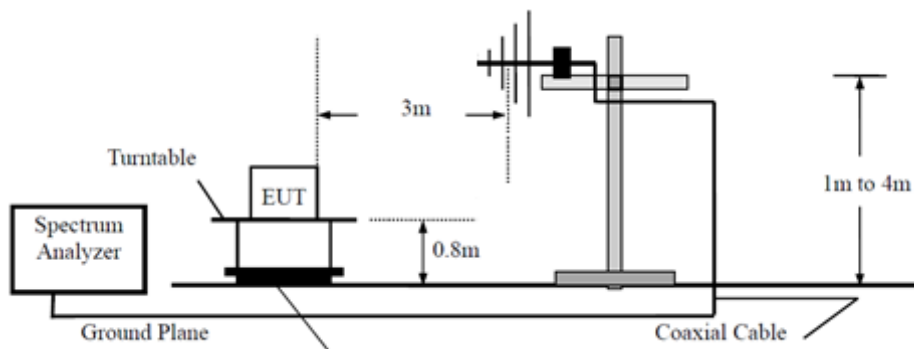


7.2 Radiated test setups

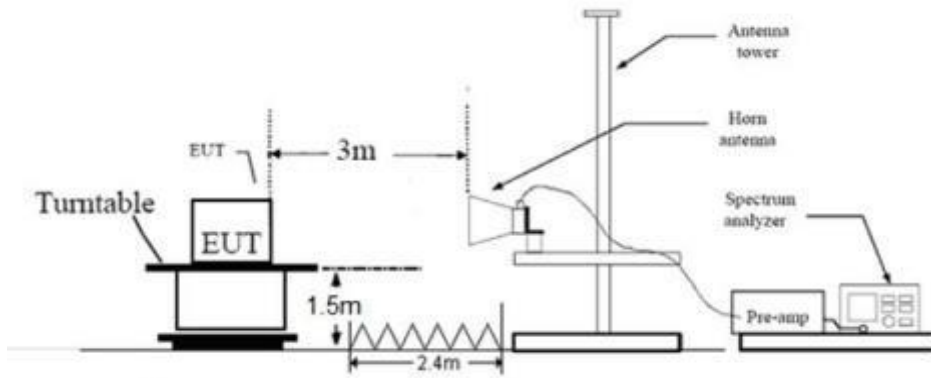
9KHz-30MHz



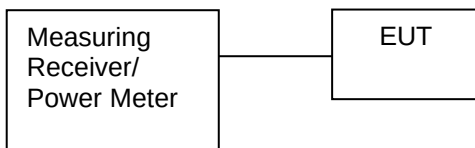
Below 1GHz



Above 1GHz



7.3 Conducted RF test setups



7. Systems test configuration

Auxiliary Equipment Used during Test:

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

The system was configured to channel:

Test Mode	Channel (MHz)		
802.11a, 802.11n HT20 802.11ac VHT20 802.11ax HE20	5G Wi-Fi UNII-1		
	CH36 (5180MHz)	CH40 (5200MHz)	CH48 (5240MHz)
	5G Wi-Fi UNII-2A		
	CH52 (5260MHz)	CH60 (5300MHz)	CH64 (5320MHz)
	5G Wi-Fi UNII-2C		
	CH100 (5500MHz)	CH116 (5580MHz)	CH140 (5700MHz)
	CH144 (5720MHz)		
	5G Wi-Fi UNII-3		
CH149 (5745MHz)	CH157(5785MHz)	CH165 (5825MHz)	

Test Mode	Channel (MHz)		
802.11n HT40 802.11ac VHT40 802.11ax HE40	5G Wi-Fi UNII-1		
	CH38(5190MHz)	CH46 (5230MHz)	
	5G Wi-Fi UNII-2A		
	CH54(5270MHz)	CH62(5310MHz)	
	5G Wi-Fi UNII-2C		
	CH102(5510MHz)	CH110(5550MHz)	CH134(5670MHz)
	CH 142 (5710MHz)		
	5G Wi-Fi UNII-3		
	CH151(5755MHz)	CH159(5795MHz)	

Test Mode	Channel (MHz)		
802.11ac VHT80 802.11ax HE80	5G Wi-Fi UNII-1		
	CH42(5210MHz)		
	5G Wi-Fi UNII-2A		
	CH58(5290MHz)		
	5G Wi-Fi UNII-2C		
	CH106(5530MHz)	CH122(5610MHz)	CH138(5690MHz)
	5G Wi-Fi UNII-3		
	CH155(5775MHz)		

Test Mode	Channel (MHz)
802.11ac VHT80 802.11ax HE160	5G Wi-Fi UNII-2A
	CH50(5250MHz)
	5G Wi-Fi UNII-2C
	CH114(5570MHz)

8. Technical Requirement

8.1 Conducted emission AC power port

Test Method

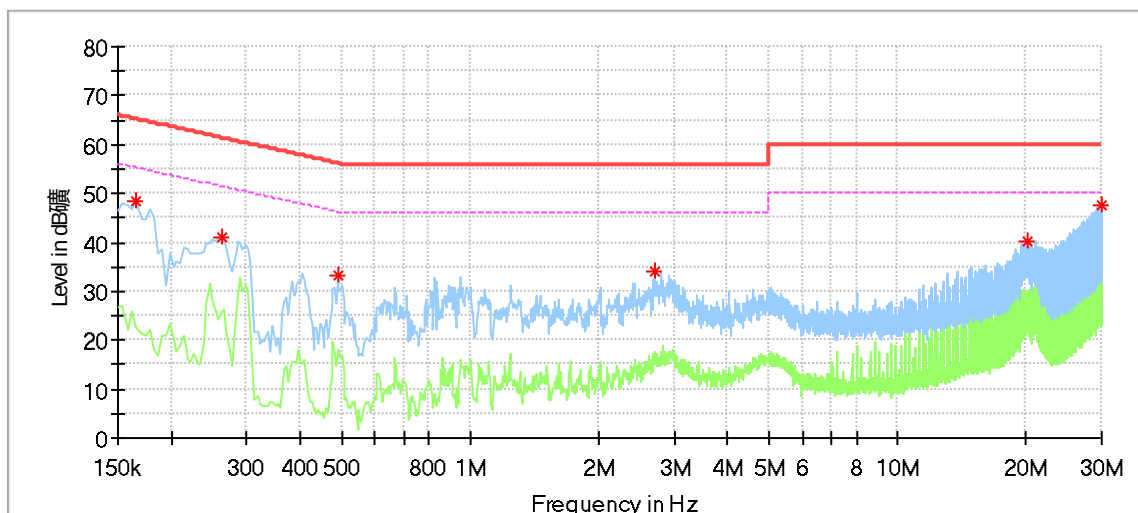
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

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 : All-in-One PCs
M/N : Altos BrainSphere P1 F9
Operating Condition : Transmitting
Test specification : Line
Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.166000	48.40	---	65.16	16.76	L1	9.54
0.262000	40.82	---	61.37	20.54	L1	9.56
0.490000	33.33	---	56.17	22.84	L1	9.59
2.698000	34.02	---	56.00	21.98	L1	9.64
20.082000	40.32	---	60.00	19.68	L1	10.01
29.918000	47.43	---	60.00	12.57	L1	10.03

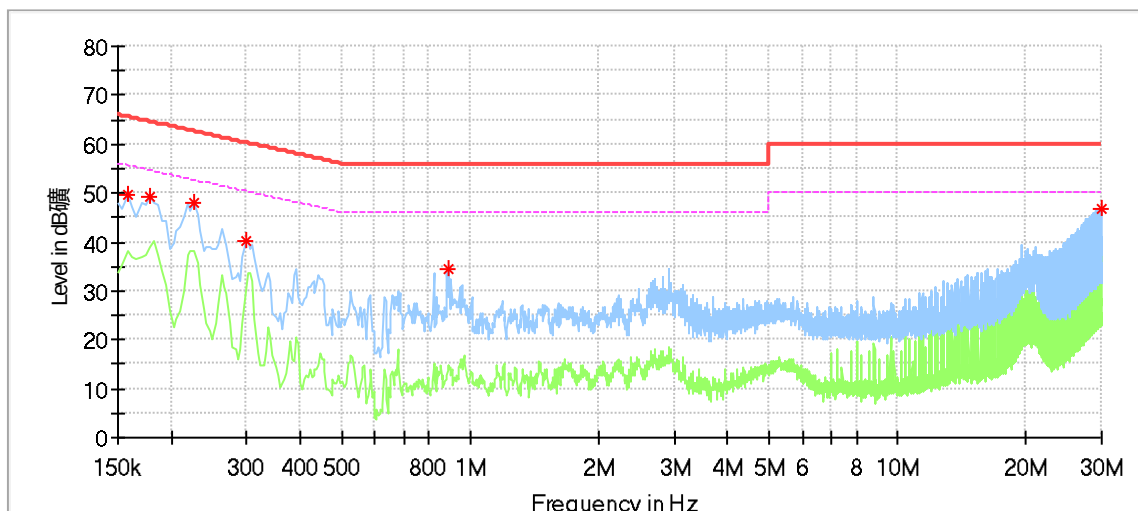
Remark:

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 : All-in-One PCs
M/N : Altos BrainSphere P1 F9
Operating Condition : Transmitting
Test specification : Neutral
Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.158000	49.66	---	65.57	15.90	N	9.56
0.178000	49.24	---	64.58	15.34	N	9.57
0.226000	48.10	---	62.60	14.49	N	9.58
0.298000	40.40	---	60.30	19.90	N	9.60
0.894000	34.46	---	56.00	21.54	N	9.63
29.846000	46.97	---	60.00	13.03	N	9.88

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 = 1 % to 5 % of the OBW
- 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 = approximately 1% of the emission bandwidth.
- c) Set the video bandwidth (VBW) $\geq 3 \times$ RBW
- d) Detector = Peak.
- e) Trace mode = max hold.
- f) Sweep = 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.
- i) Record the results in the test report.

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:

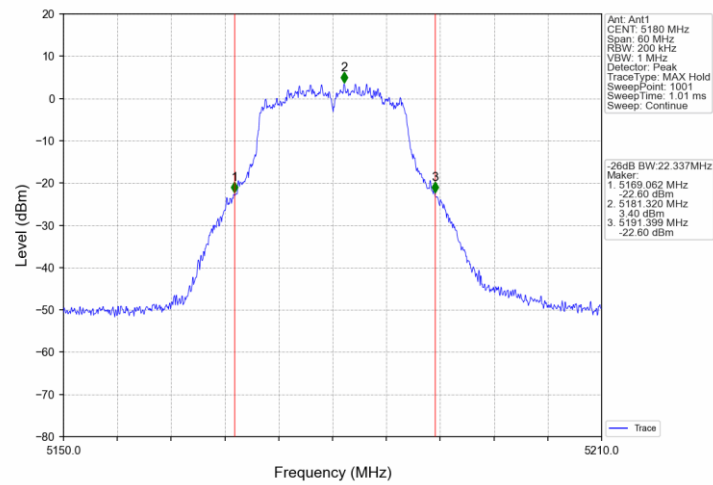
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	22.337	/	Pass
			2	22.967	/	Pass
		5200	1	23.091	/	Pass
			2	22.813	/	Pass
		5240	1	23.077	/	Pass
			2	22.584	/	Pass
		5260	1	22.763	/	Pass
			2	22.815	/	Pass
		5300	1	23.337	/	Pass
			2	23.994	/	Pass
		5320	1	22.738	/	Pass
			2	23.264	/	Pass
		5500	1	22.818	/	Pass
			2	23.398	/	Pass
		5580	1	22.728	/	Pass
			2	22.601	/	Pass
802.11n (HT20)	MIMO	5180	1	23.090	/	Pass
			2	23.582	/	Pass
		5200	1	22.495	/	Pass
			2	23.799	/	Pass
		5240	1	23.888	/	Pass
			2	23.911	/	Pass
		5260	1	24.123	/	Pass
			2	24.001	/	Pass
		5300	1	23.000	/	Pass
			2	23.490	/	Pass
		5320	1	23.962	/	Pass
			2	22.973	/	Pass
		5500	1	23.607	/	Pass
			2	24.195	/	Pass
		5580	1	23.724	/	Pass
			2	23.488	/	Pass
802.11n (HT40)	MIMO	5190	1	23.798	/	Pass
			2	23.705	/	Pass
		5230	1	24.022	/	Pass
			2	23.751	/	Pass
		5270	1	43.862	/	Pass
			2	43.514	/	Pass
		5310	1	42.685	/	Pass
			2	42.956	/	Pass
		5510	1	43.864	/	Pass
			2	43.378	/	Pass
		5550	1	43.041	/	Pass
			2	43.939	/	Pass
		5670	1	42.799	/	Pass
			2	43.998	/	Pass
		5710	1	44.037	/	Pass
			2	43.988	/	Pass
802.11ac (VHT20)	MIMO	5180	1	43.272	/	Pass
			2	43.707	/	Pass
		5200	1	43.550	/	Pass
			2	43.532	/	Pass
802.11ac (VHT20)	MIMO	5180	1	24.057	/	Pass
			2	24.059	/	Pass
		5200	1	23.631	/	Pass
			2	24.076	/	Pass

		5240	1	23.859	/	Pass
			2	24.161	/	Pass
		5260	1	23.900	/	Pass
			2	24.137	/	Pass
		5300	1	24.197	/	Pass
			2	24.003	/	Pass
		5320	1	23.930	/	Pass
			2	23.979	/	Pass
		5500	1	23.817	/	Pass
			2	24.563	/	Pass
		5580	1	24.014	/	Pass
			2	23.915	/	Pass
		5700	1	24.043	/	Pass
			2	23.994	/	Pass
		5720	1	24.108	/	Pass
			2	23.840	/	Pass
802.11ac (VHT40)	MIMO	5190	1	44.041	/	Pass
			2	44.160	/	Pass
		5230	1	44.442	/	Pass
			2	41.467	/	Pass
		5270	1	43.664	/	Pass
			2	42.587	/	Pass
		5310	1	43.484	/	Pass
			2	42.738	/	Pass
		5510	1	42.693	/	Pass
			2	42.969	/	Pass
		5550	1	43.815	/	Pass
			2	42.275	/	Pass
		5670	1	43.438	/	Pass
			2	42.836	/	Pass
		5710	1	43.956	/	Pass
			2	43.718	/	Pass
802.11ac (VHT80)	MIMO	5210	1	86.153	/	Pass
			2	85.632	/	Pass
		5290	1	85.258	/	Pass
			2	85.960	/	Pass
		5530	1	84.888	/	Pass
			2	85.920	/	Pass
		5610	1	85.130	/	Pass
			2	86.863	/	Pass
		5690	1	85.517	/	Pass
			2	86.260	/	Pass
802.11ac (VHT160)	MIMO	5570	1	164.593	/	Pass
			2	165.109	/	Pass
		5250	1	164.818	/	Pass
			2	163.773	/	Pass
802.11ax (HEW20)	MIMO	5180	1	23.941	/	Pass
			2	24.040	/	Pass
		5200	1	23.807	/	Pass
			2	24.383	/	Pass
		5240	1	23.807	/	Pass
			2	24.009	/	Pass
		5260	1	23.738	/	Pass
			2	23.630	/	Pass
		5300	1	24.016	/	Pass
			2	24.049	/	Pass
		5320	1	23.968	/	Pass
			2	23.814	/	Pass
		5500	1	23.897	/	Pass
			2	24.025	/	Pass
		5580	1	23.603	/	Pass
			2	23.987	/	Pass
		5700	1	24.282	/	Pass
			2	24.722	/	Pass

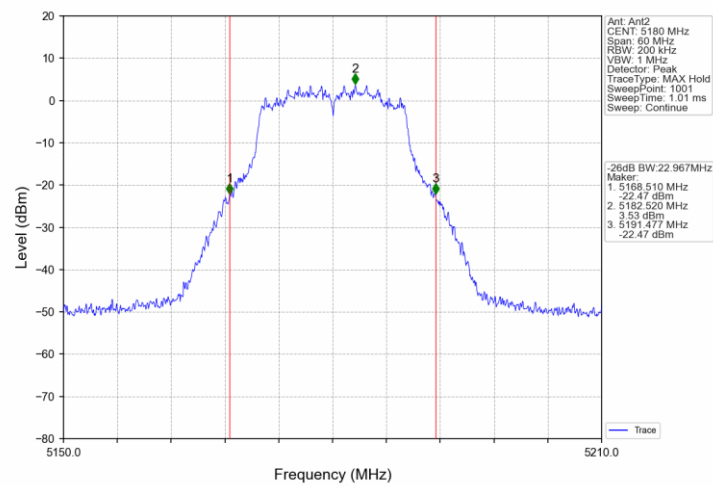
		5720	1	24.579	/	Pass
			2	23.976	/	Pass
802.11ax (HEW40)	MIMO	5190	1	42.539	/	Pass
			2	43.597	/	Pass
		5230	1	42.159	/	Pass
			2	42.513	/	Pass
		5270	1	42.790	/	Pass
			2	43.132	/	Pass
		5310	1	42.660	/	Pass
			2	42.349	/	Pass
		5510	1	41.980	/	Pass
			2	43.290	/	Pass
		5550	1	42.362	/	Pass
			2	43.415	/	Pass
		5670	1	43.173	/	Pass
			2	43.270	/	Pass
802.11ax (HEW80)	MIMO	5210	1	82.497	/	Pass
			2	83.860	/	Pass
		5290	1	84.832	/	Pass
			2	83.917	/	Pass
		5530	1	82.943	/	Pass
			2	83.904	/	Pass
		5610	1	84.293	/	Pass
			2	83.551	/	Pass
		5690	1	83.188	/	Pass
			2	83.018	/	Pass
802.11ax (HEW160)	MIMO	5570	1	164.273	/	Pass
			2	165.239	/	Pass
		5250	1	164.331	/	Pass
			2	164.360	/	Pass

26dB Bandwidth Test Graphs

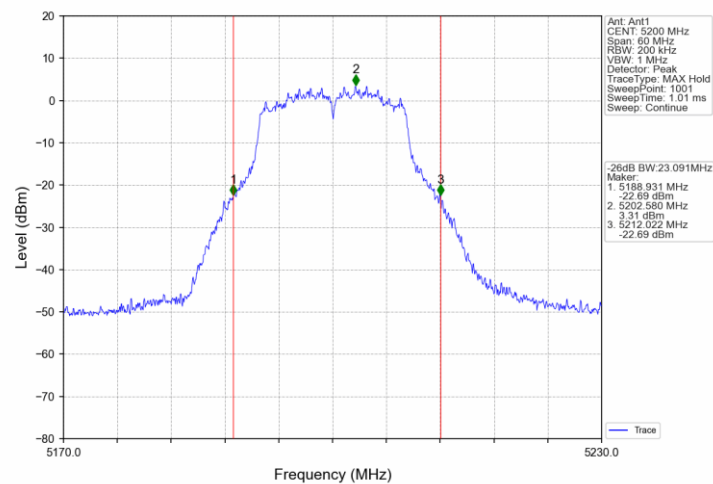
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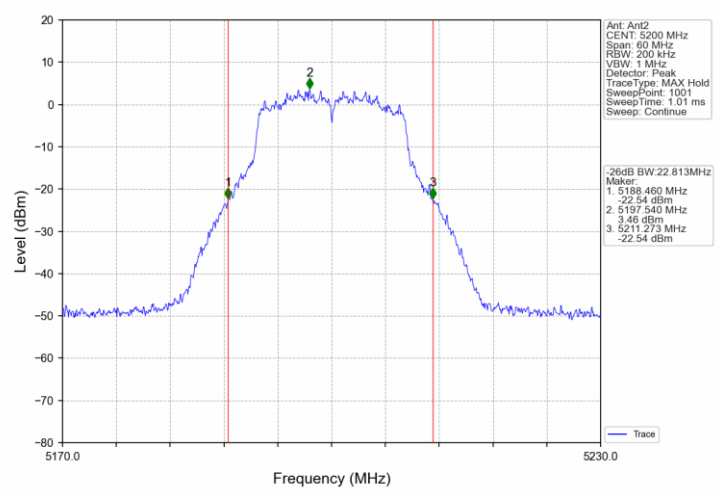
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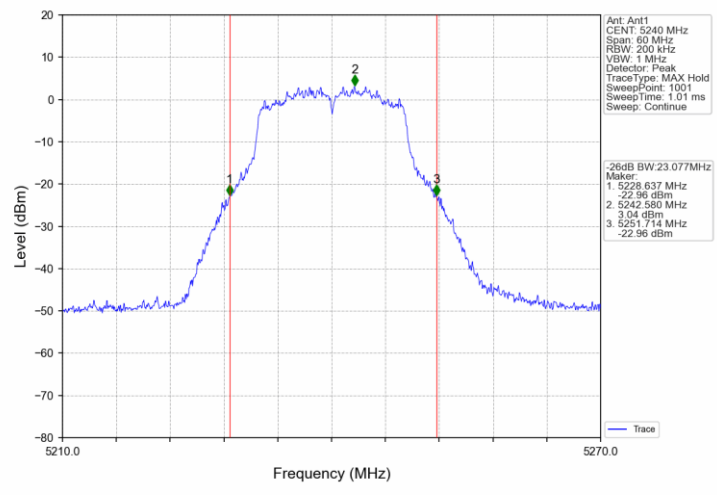
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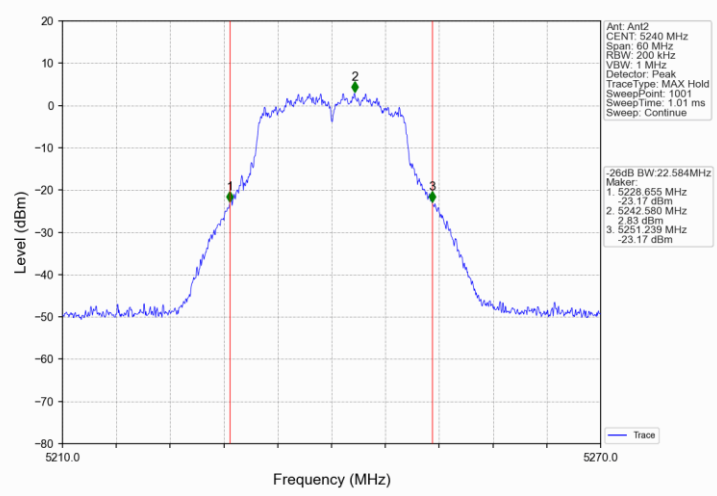
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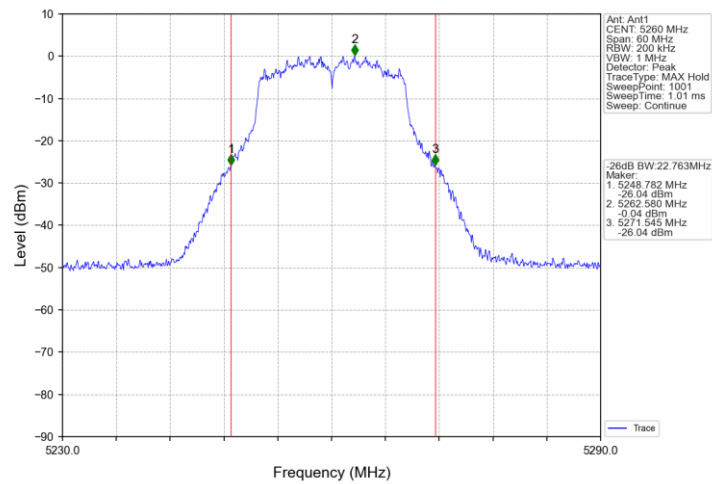
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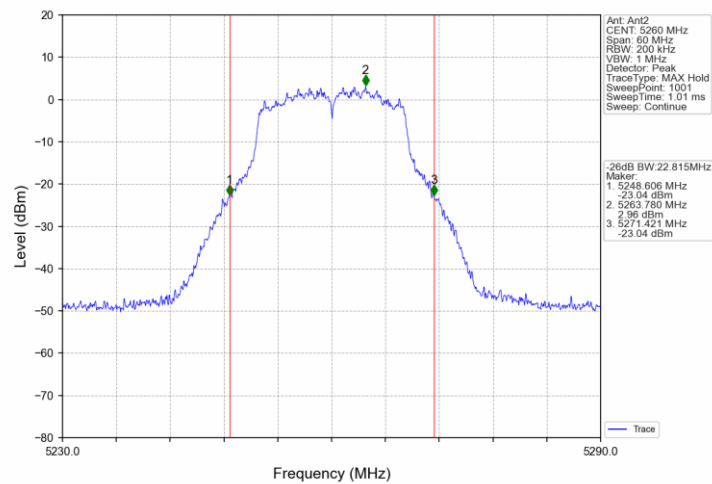
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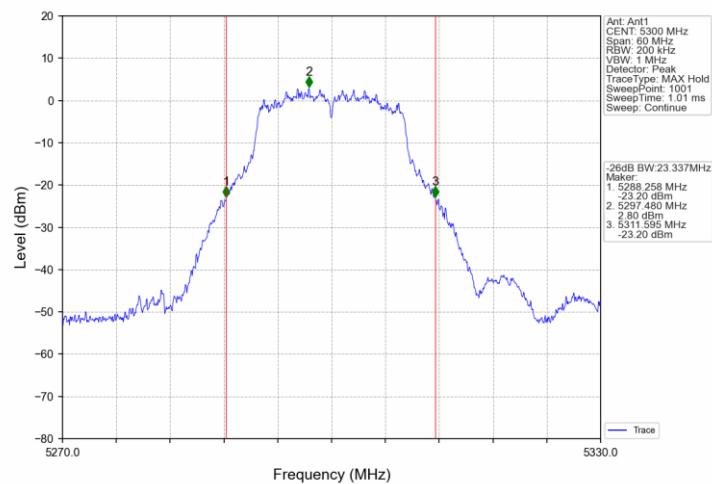
802.11a_LCH_5260MHz_Ant1_NTNV



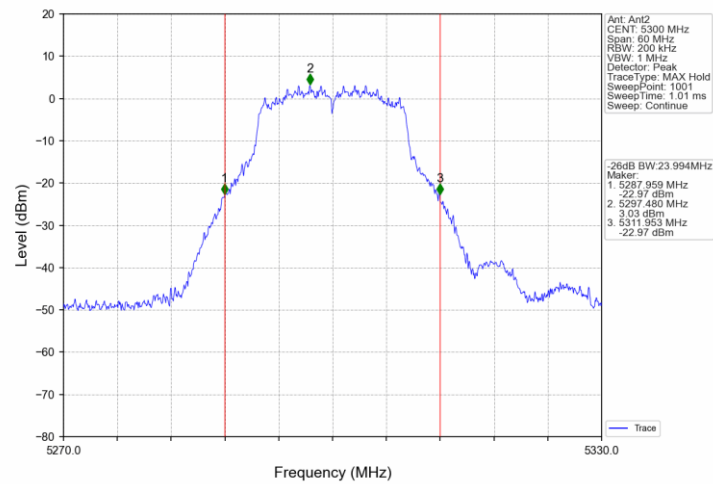
802.11a_LCH_5260MHz_Ant2_NTNV



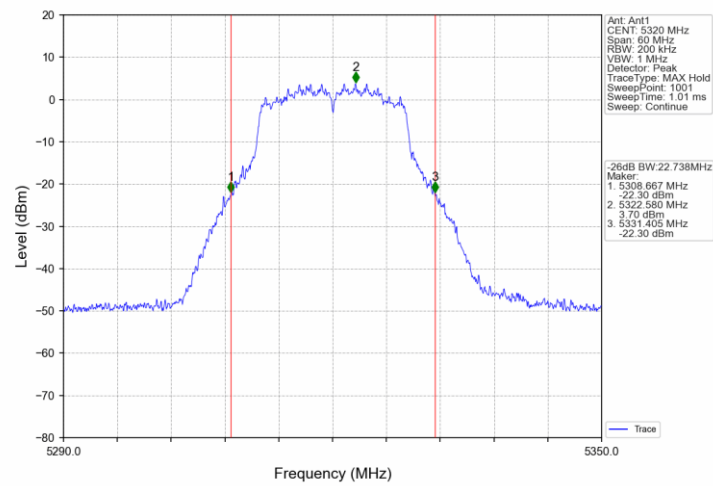
802.11a_MCH_5300MHz_Ant1_NTNV



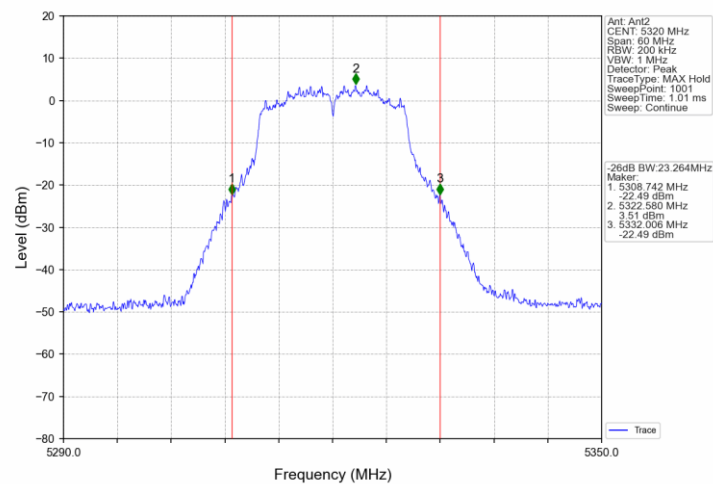
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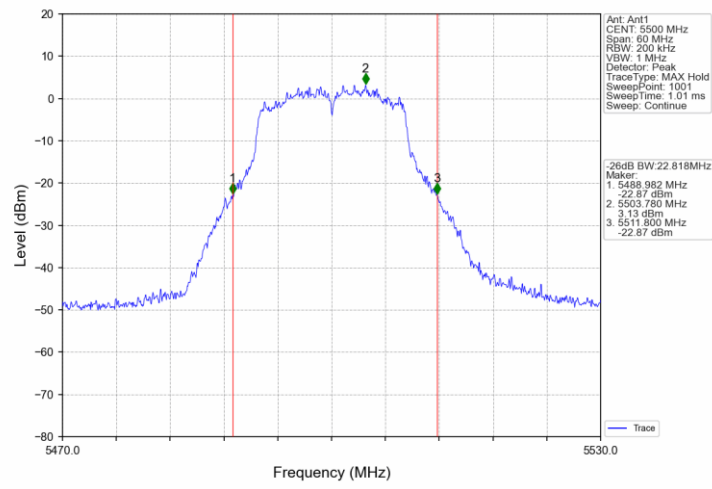
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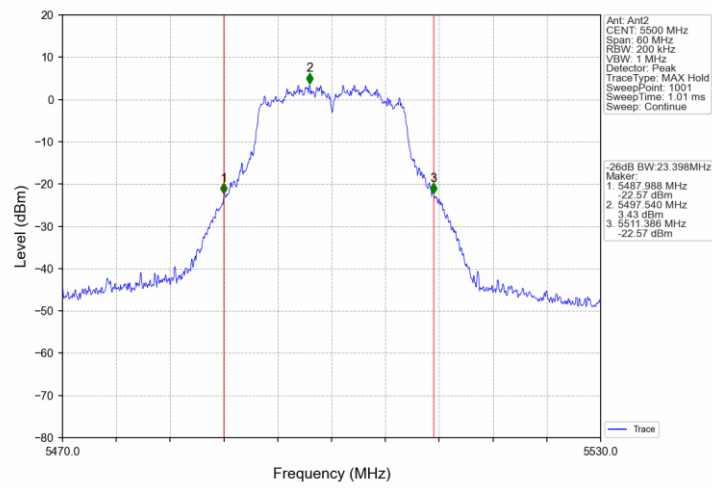
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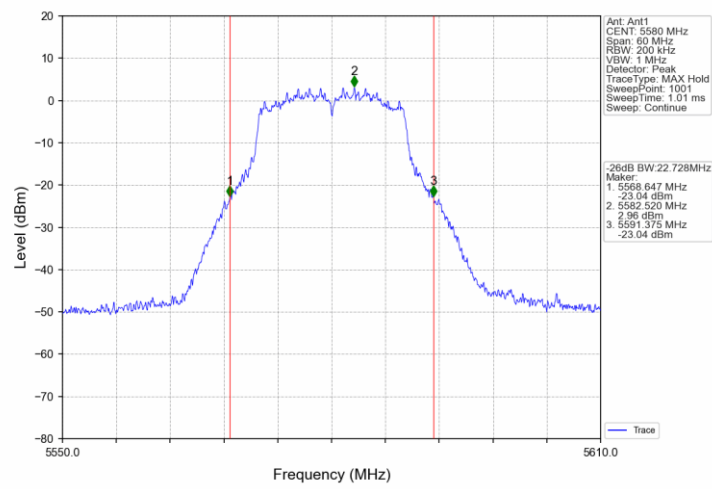
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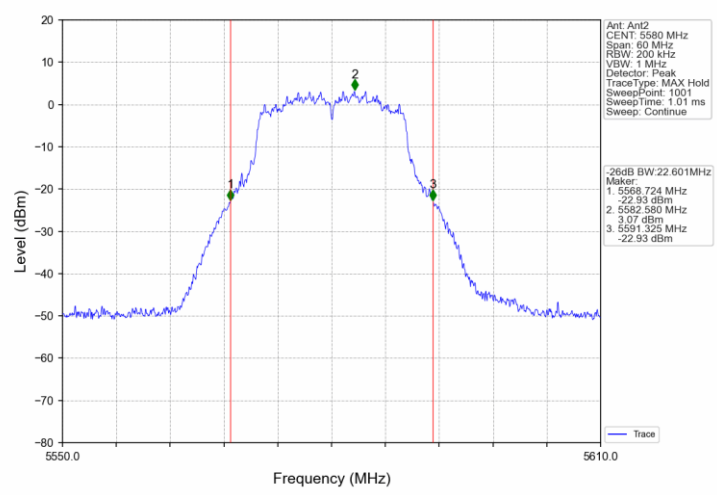
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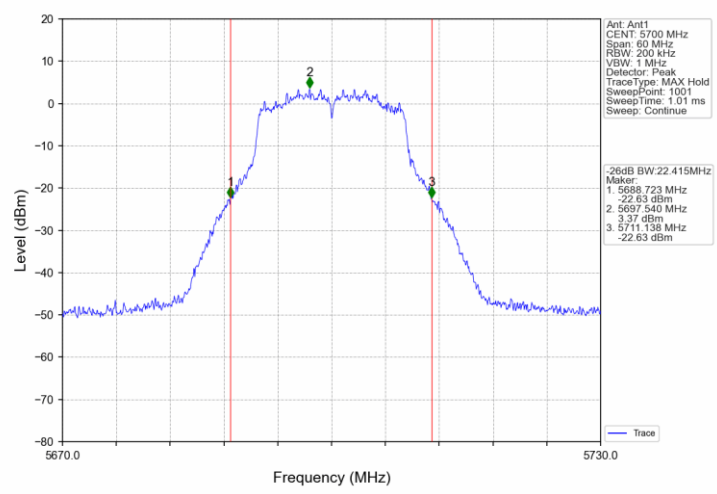
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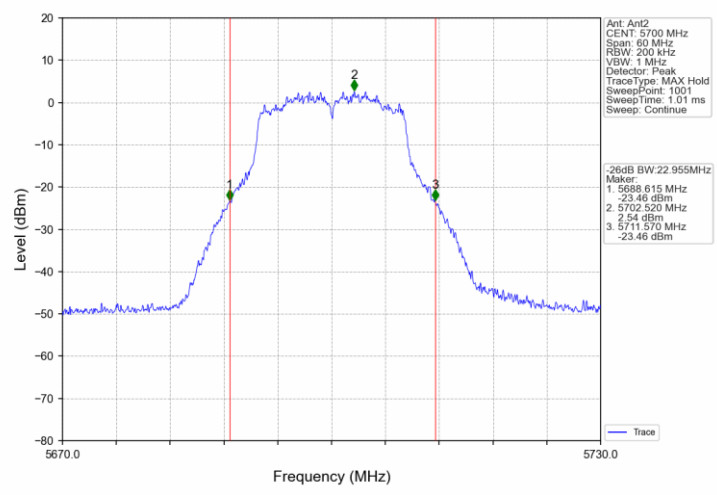
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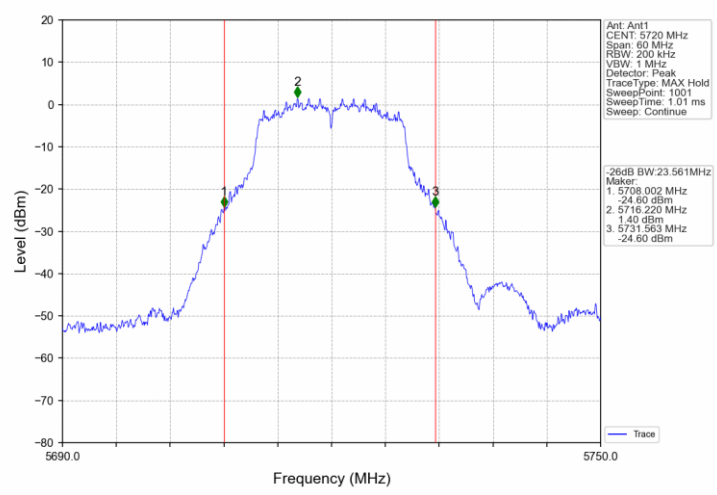
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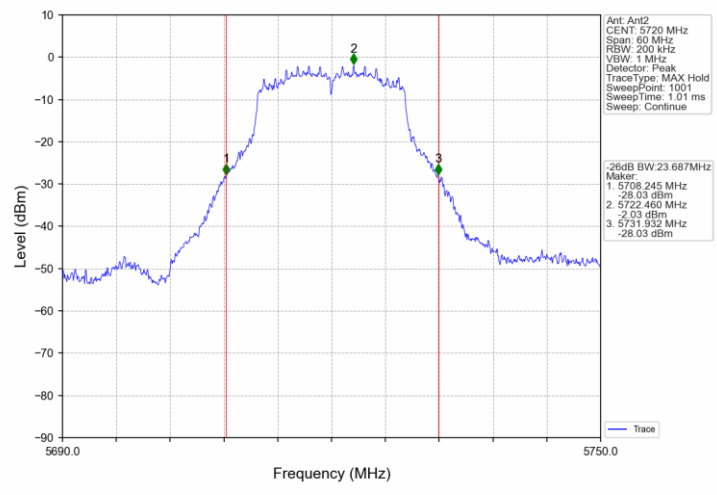
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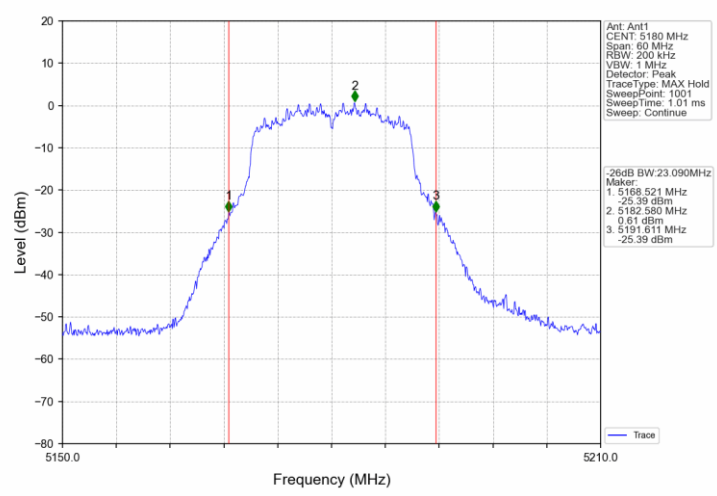
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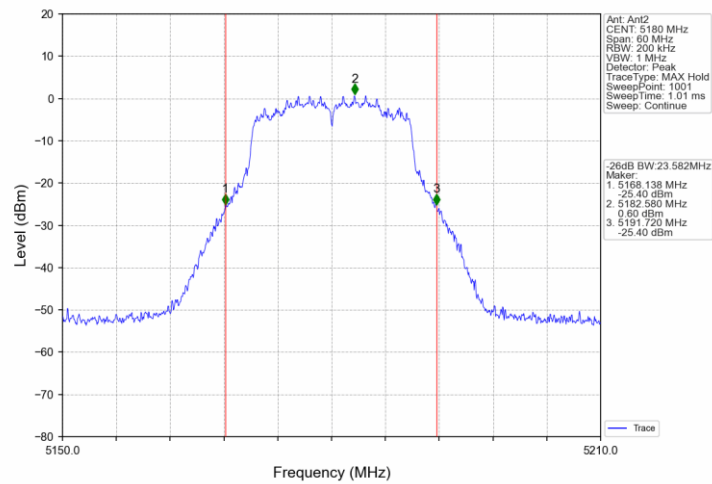
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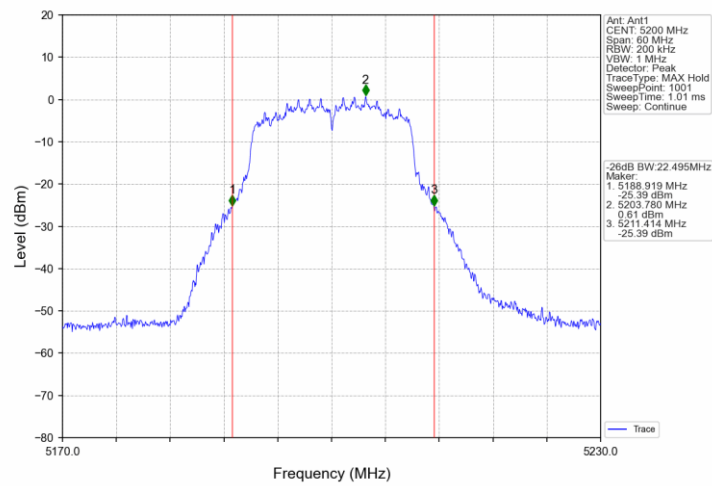
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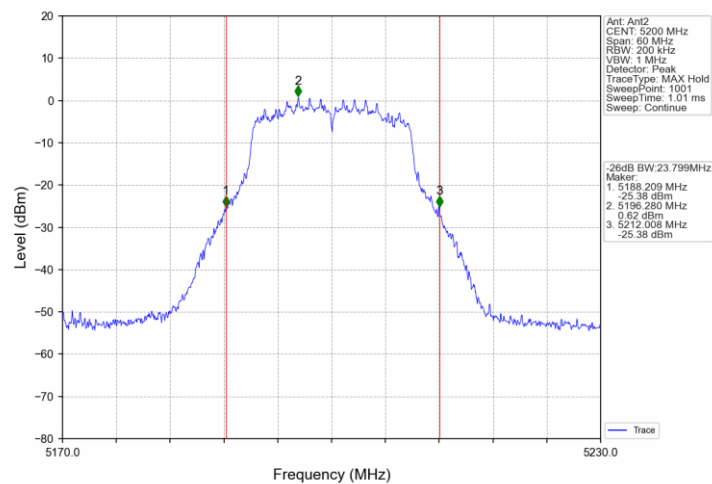
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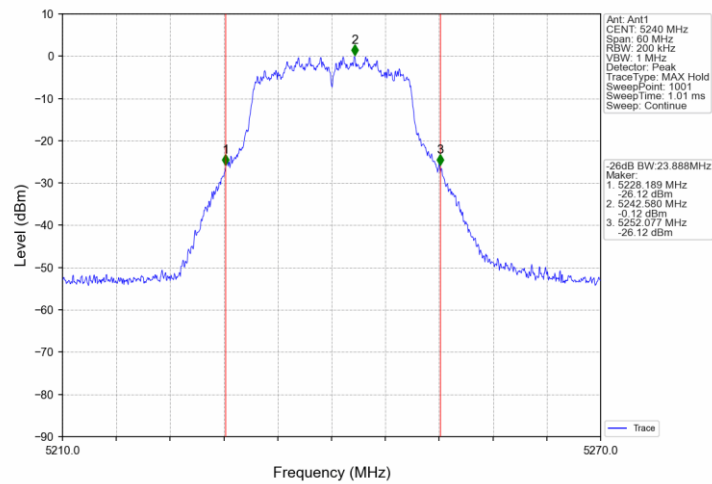
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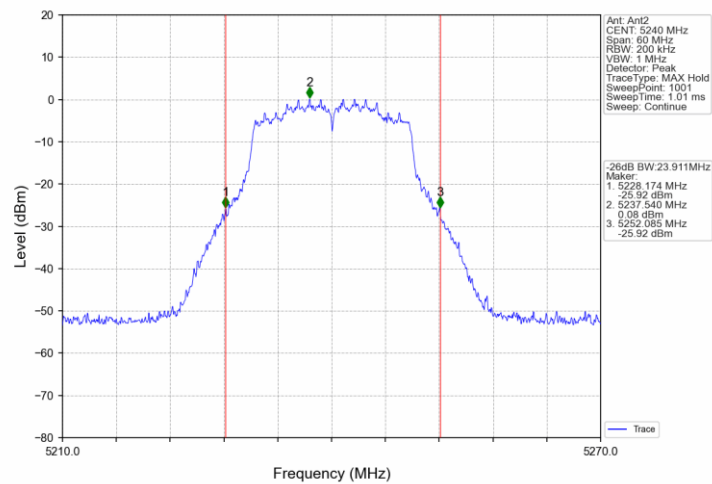
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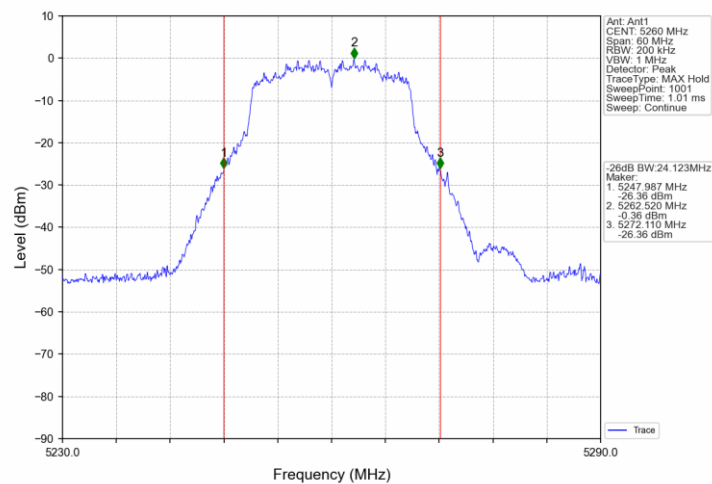
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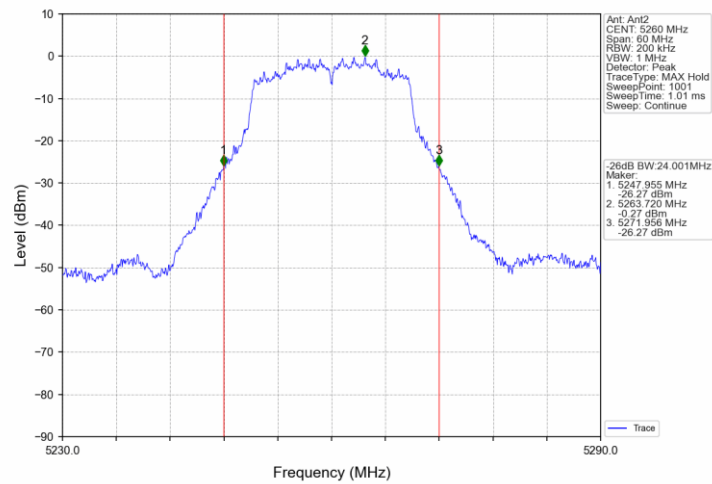
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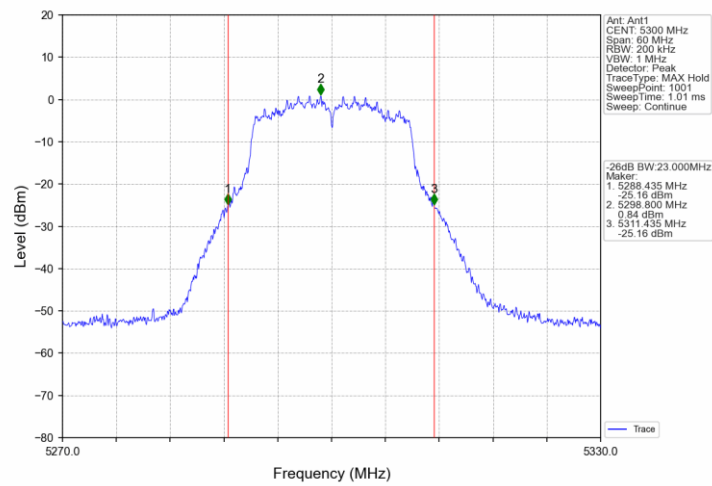
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



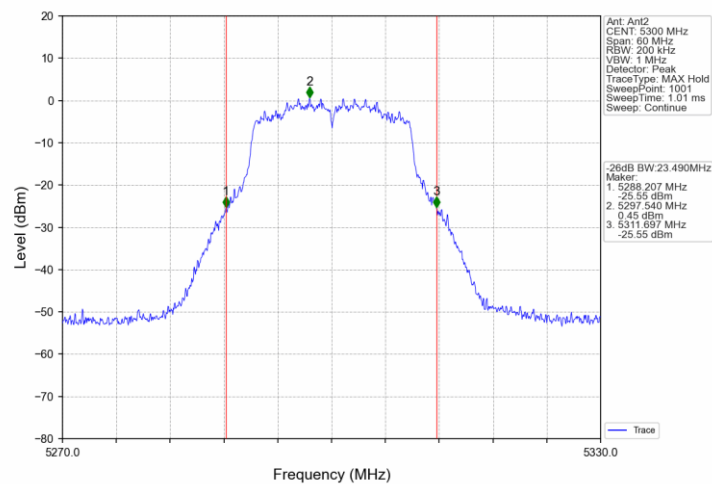
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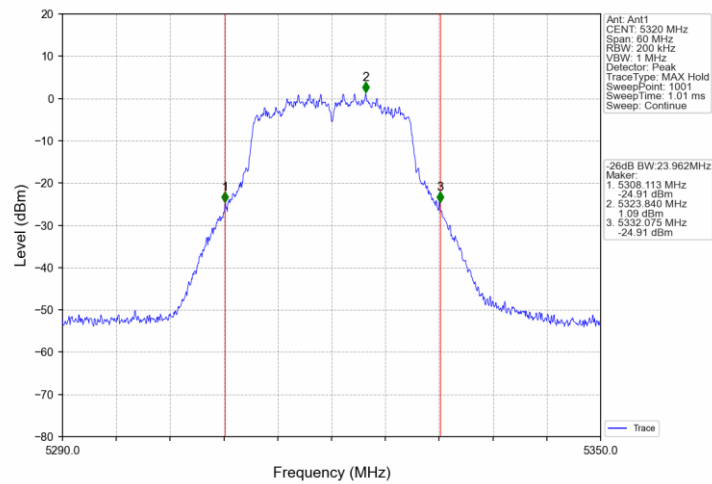
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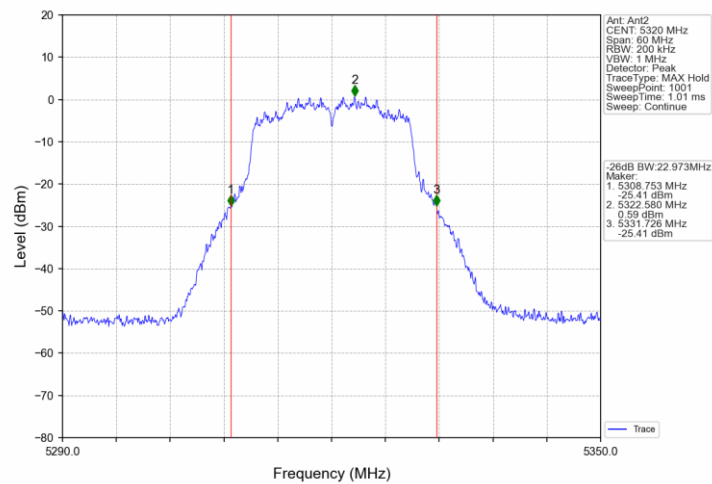
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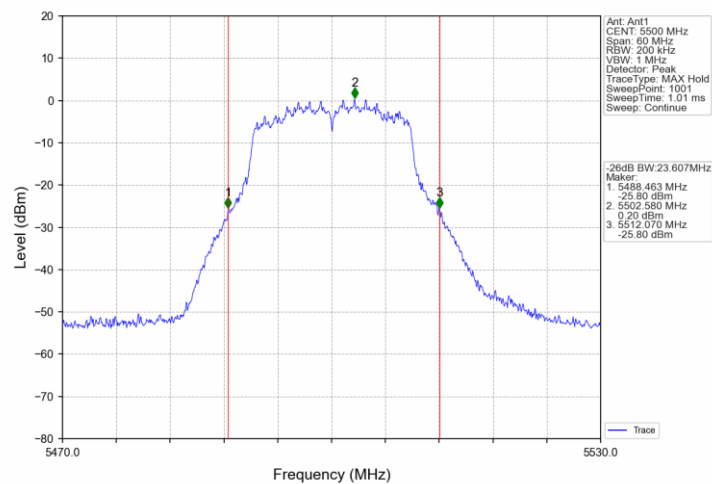
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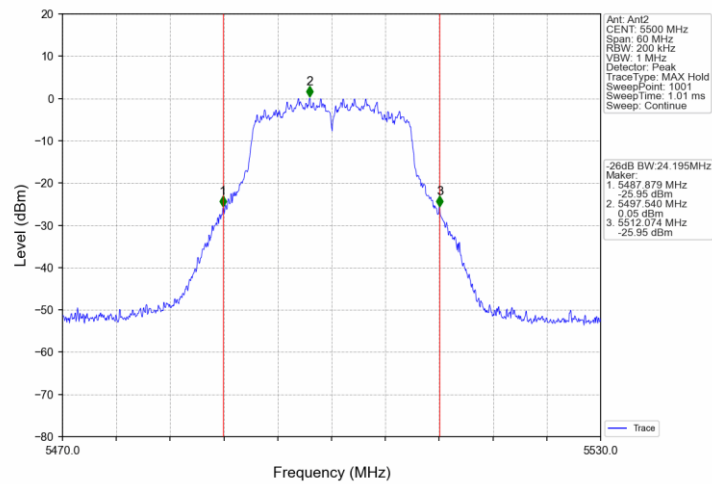
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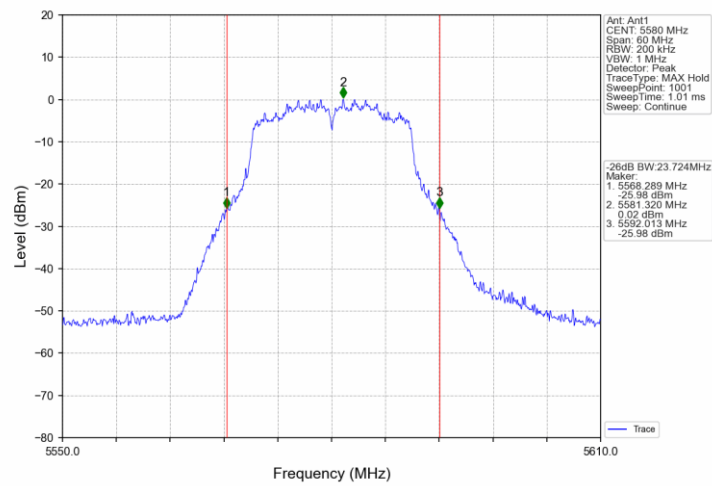
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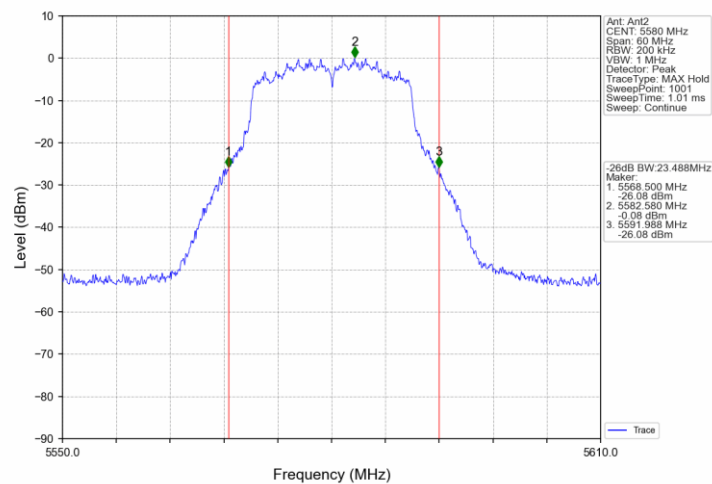
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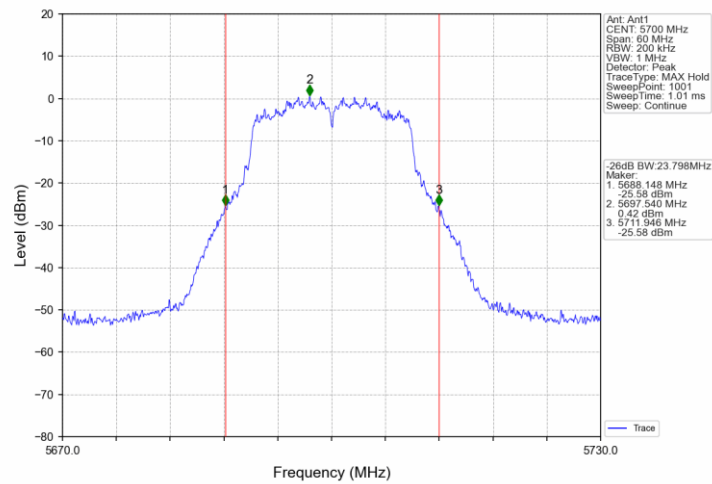
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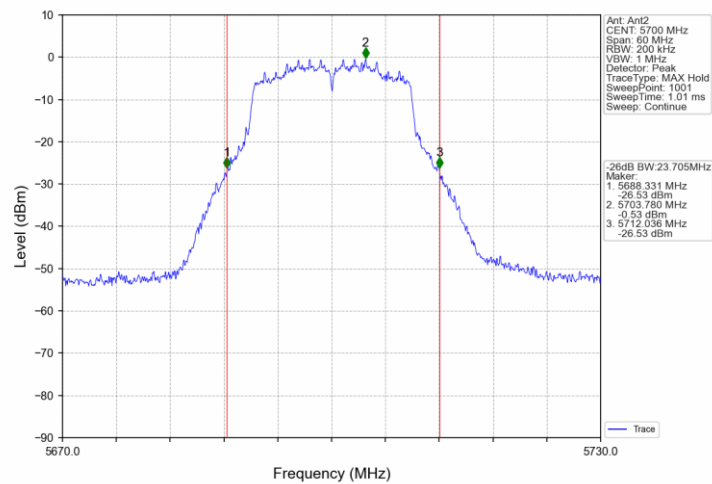
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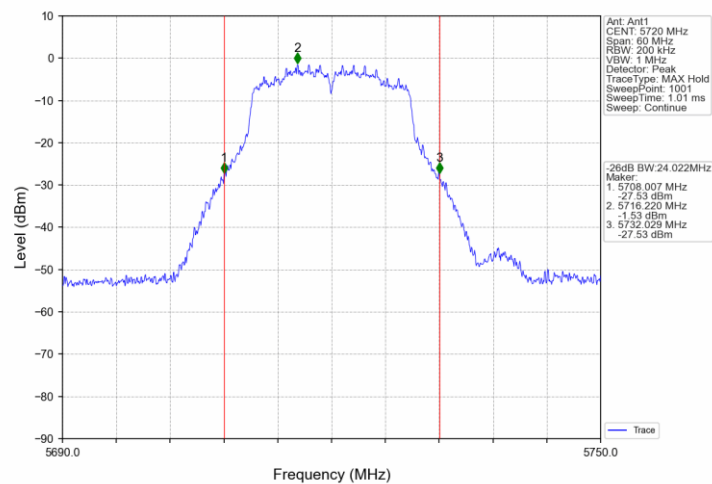
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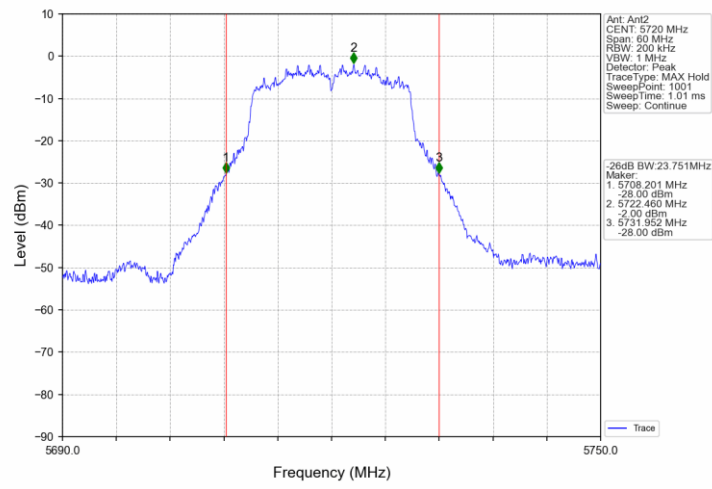
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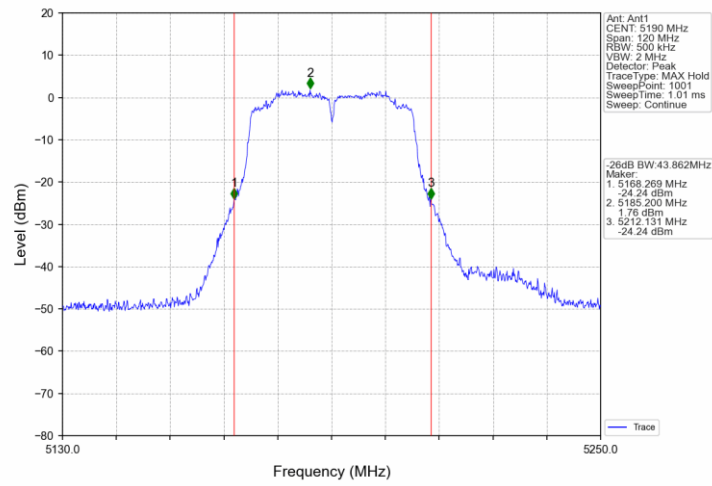
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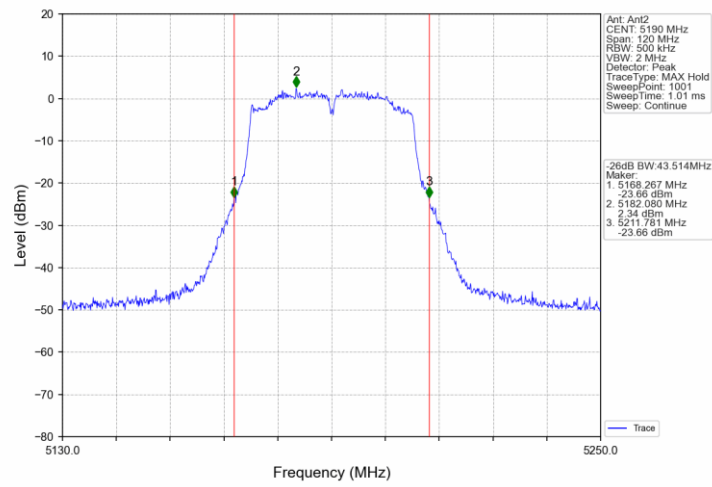
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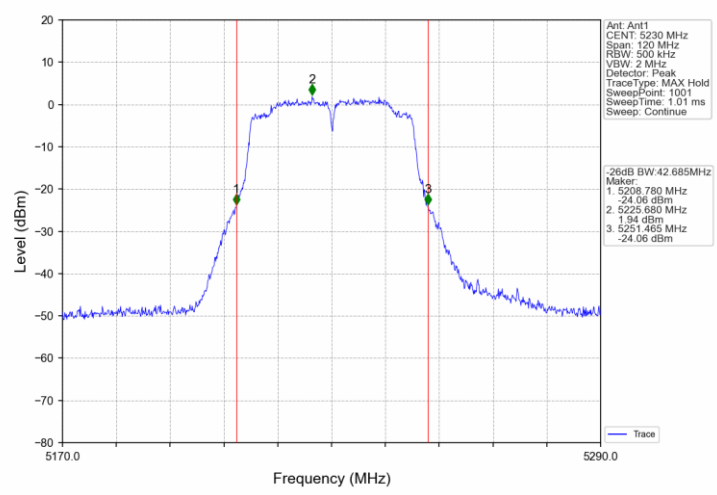
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



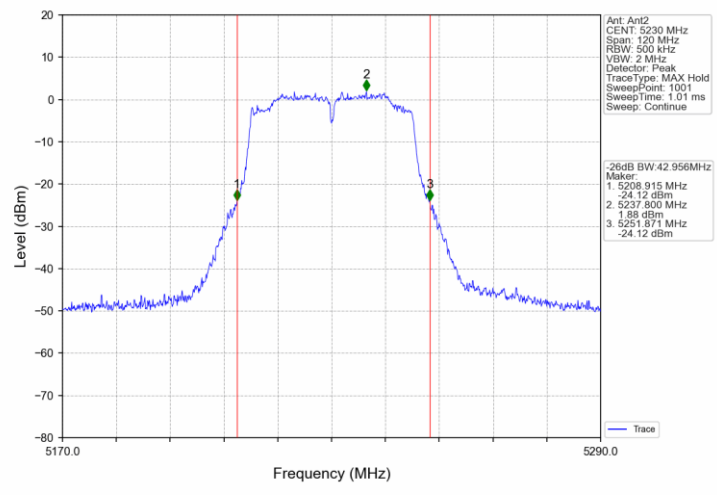
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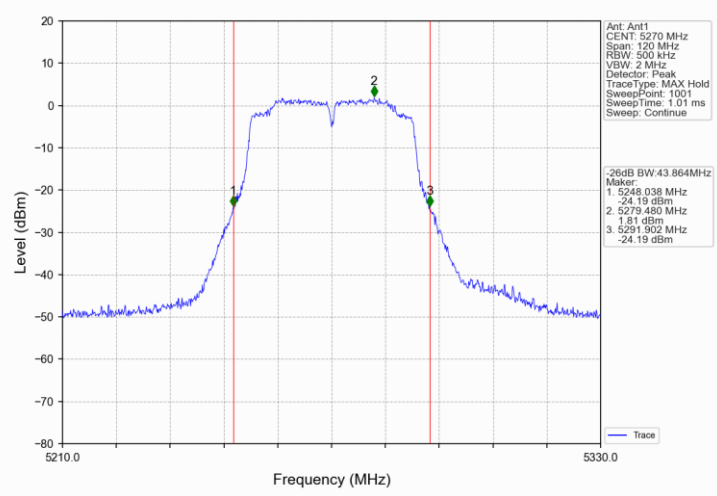
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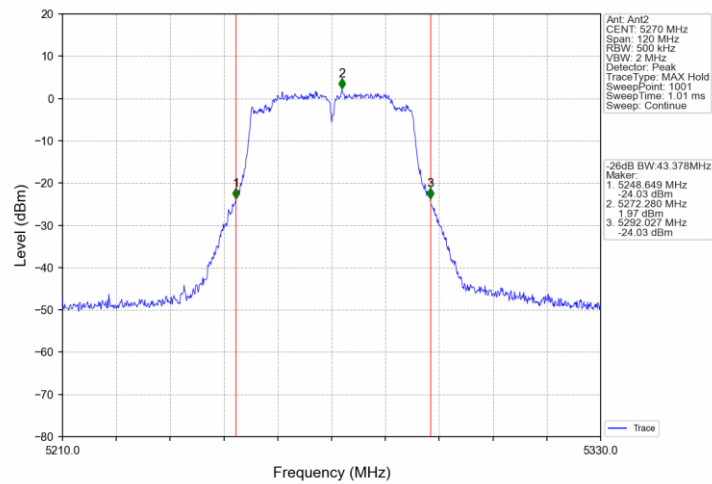
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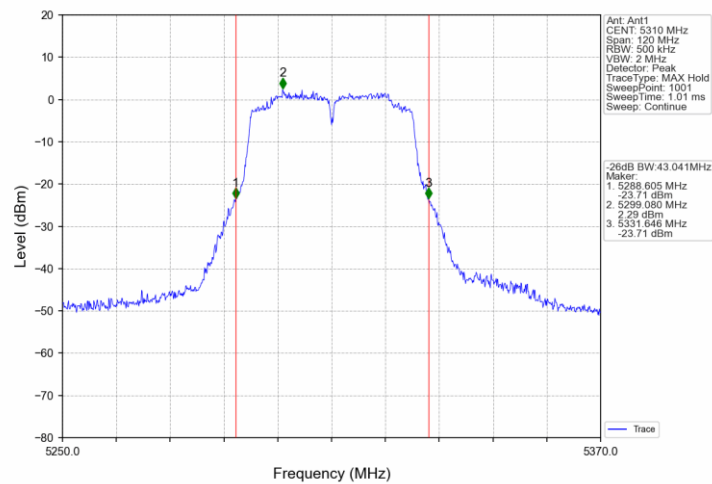
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



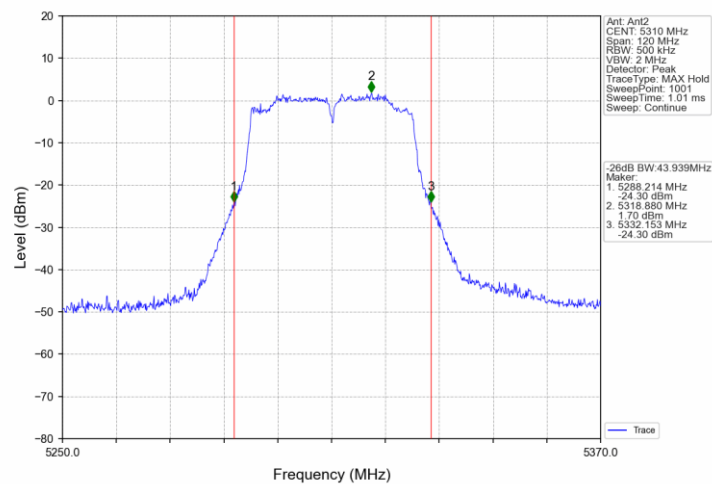
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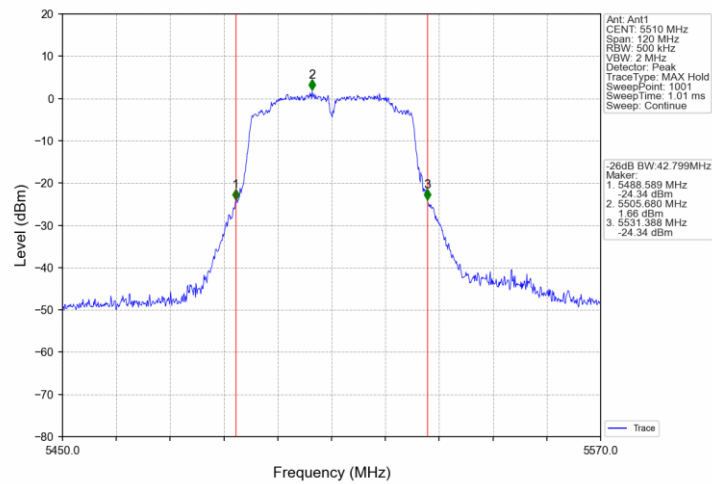
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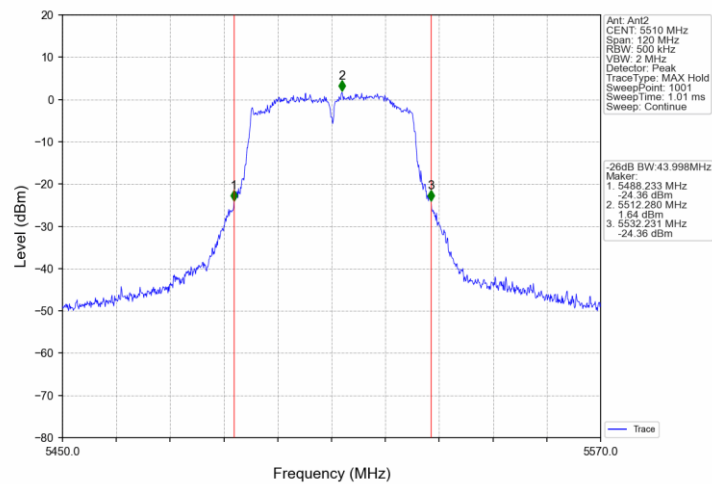
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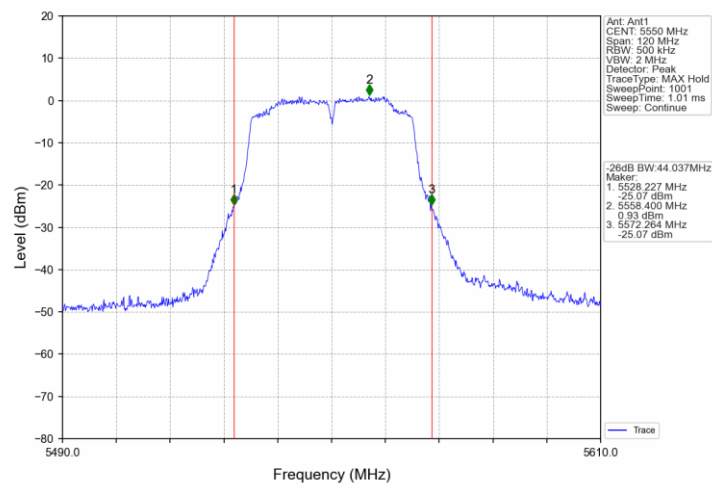
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



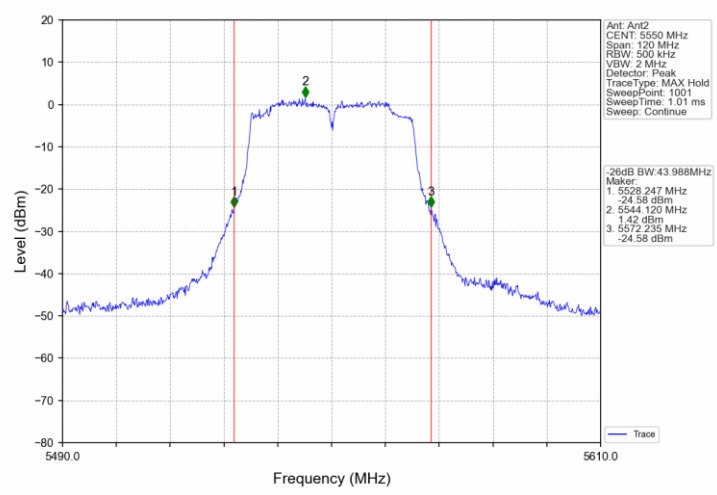
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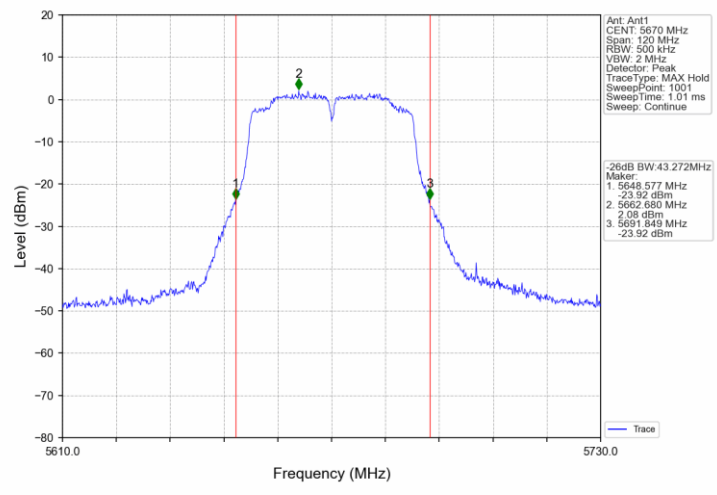
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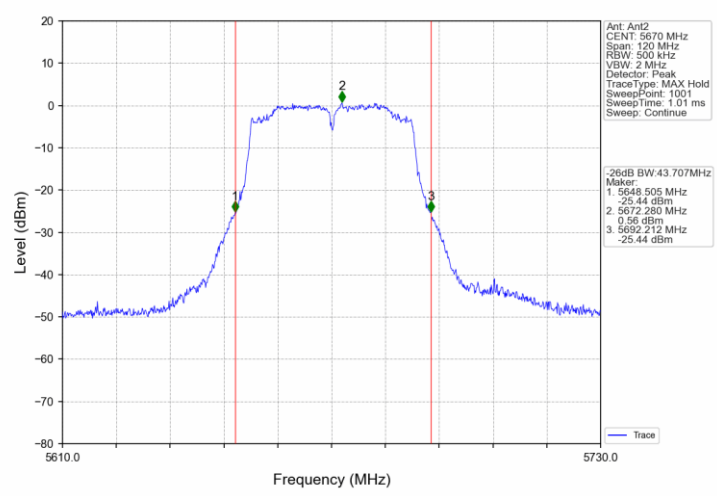
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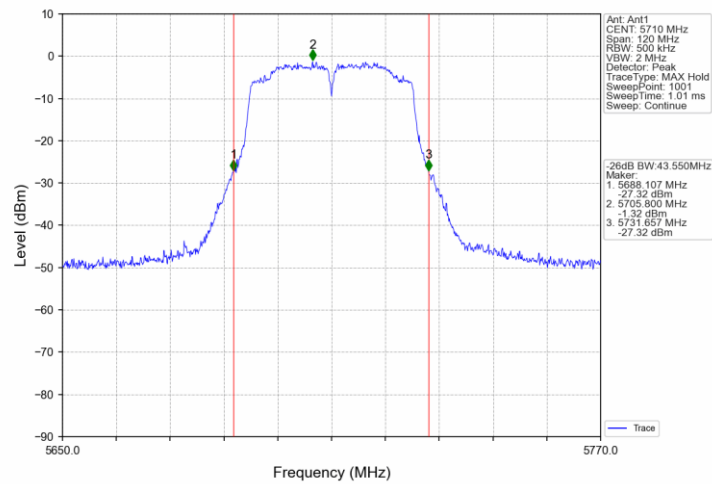
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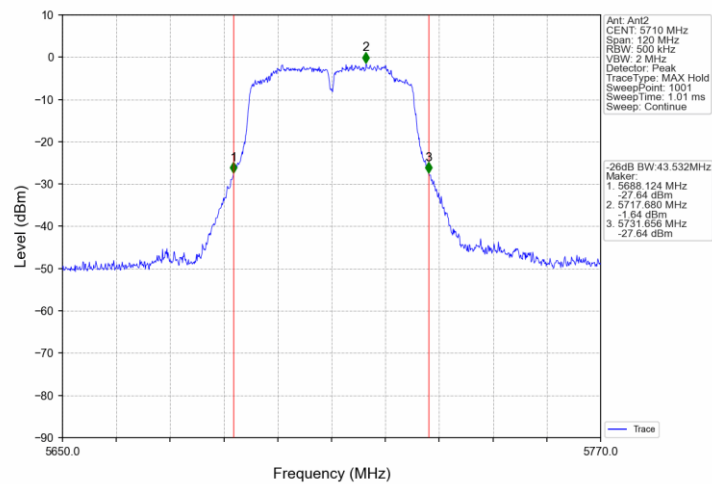
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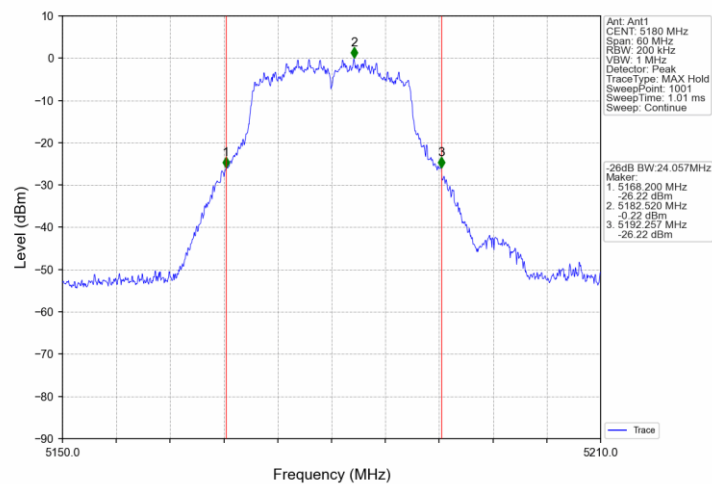
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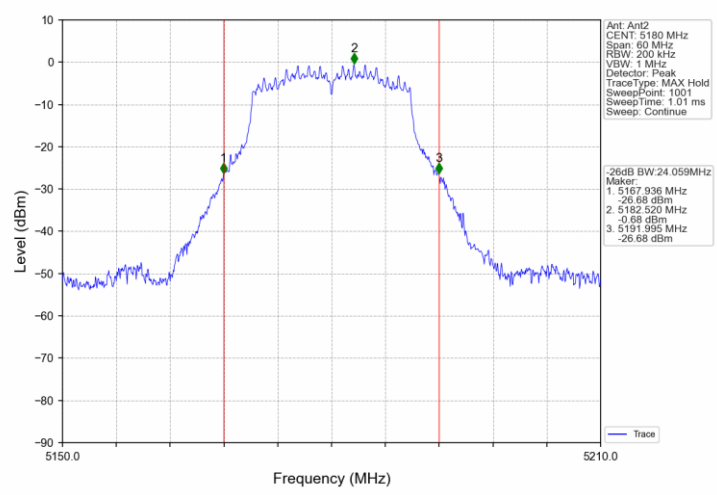
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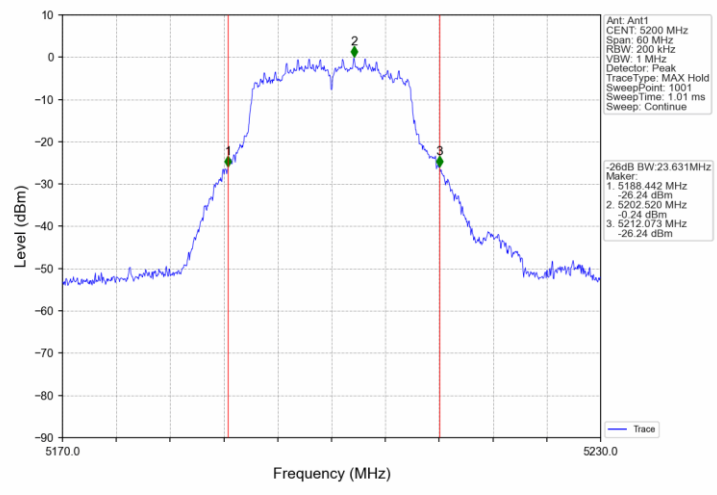
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



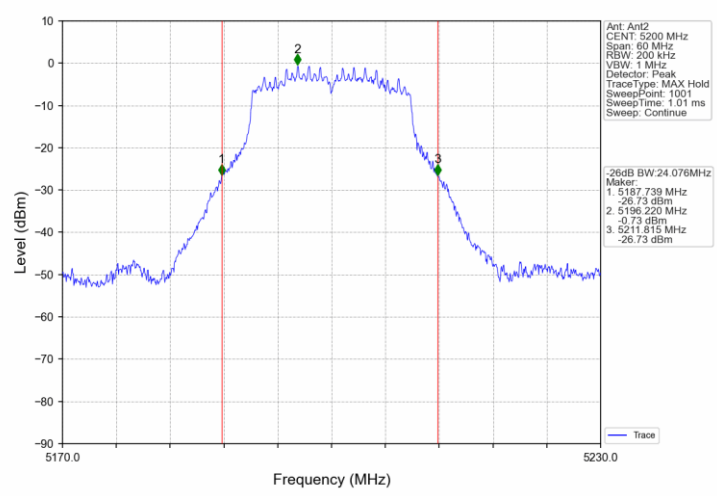
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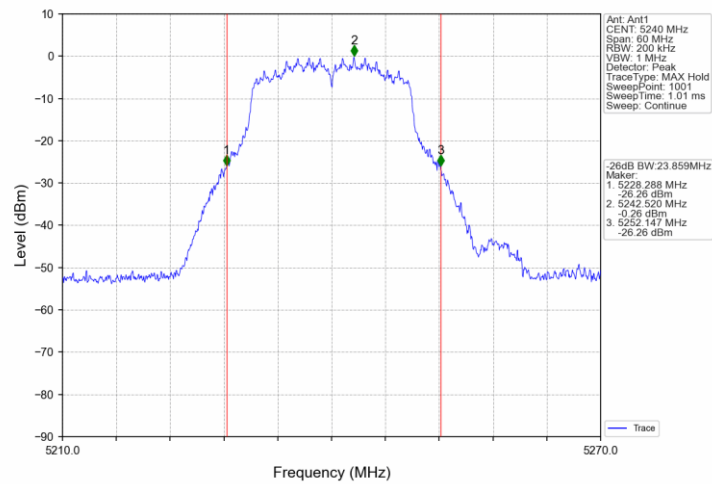
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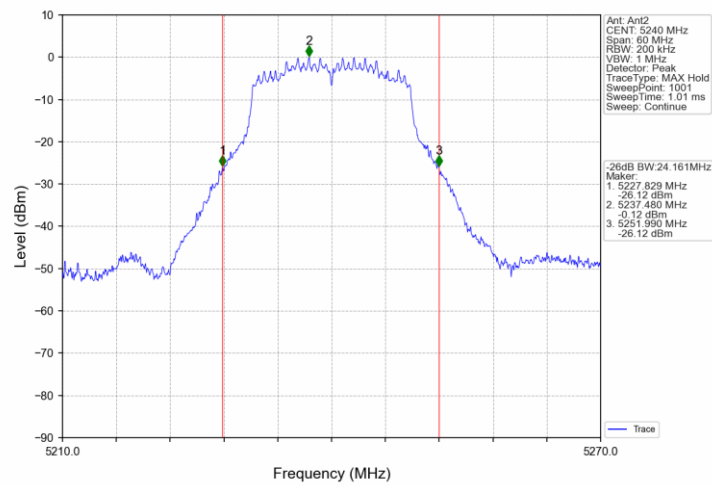
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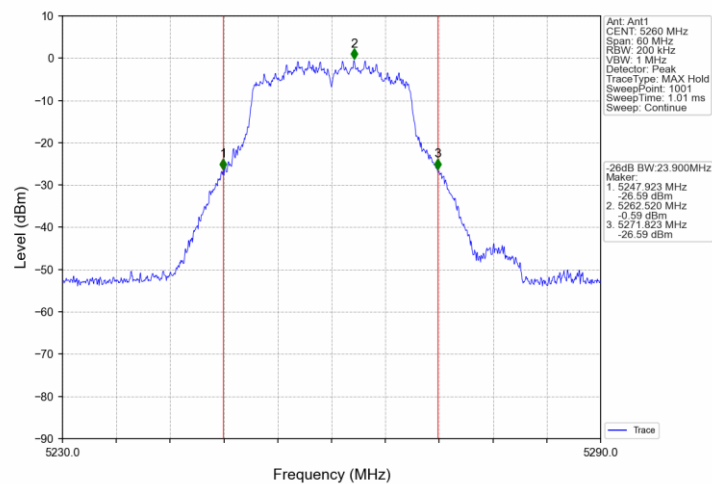
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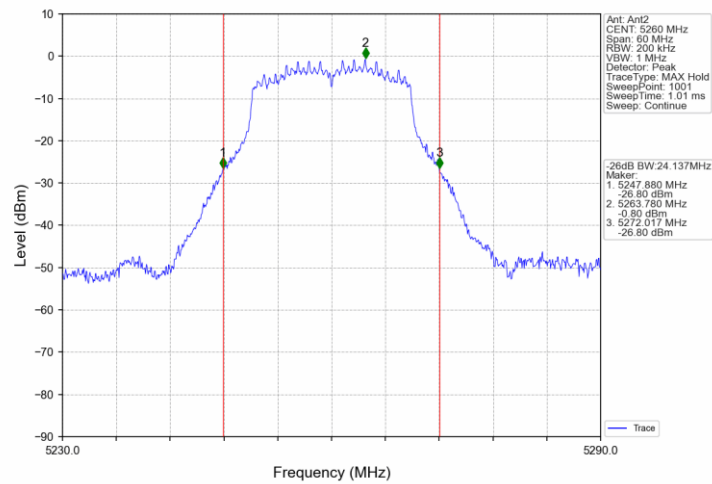
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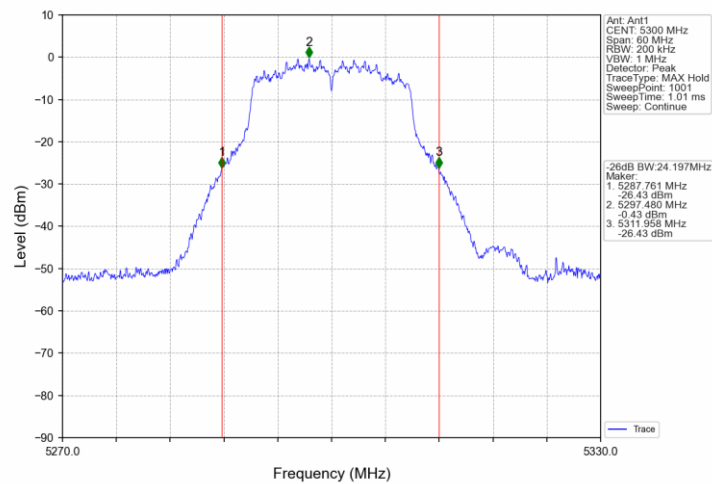
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant2_NTNV



02.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant2_NTNV

