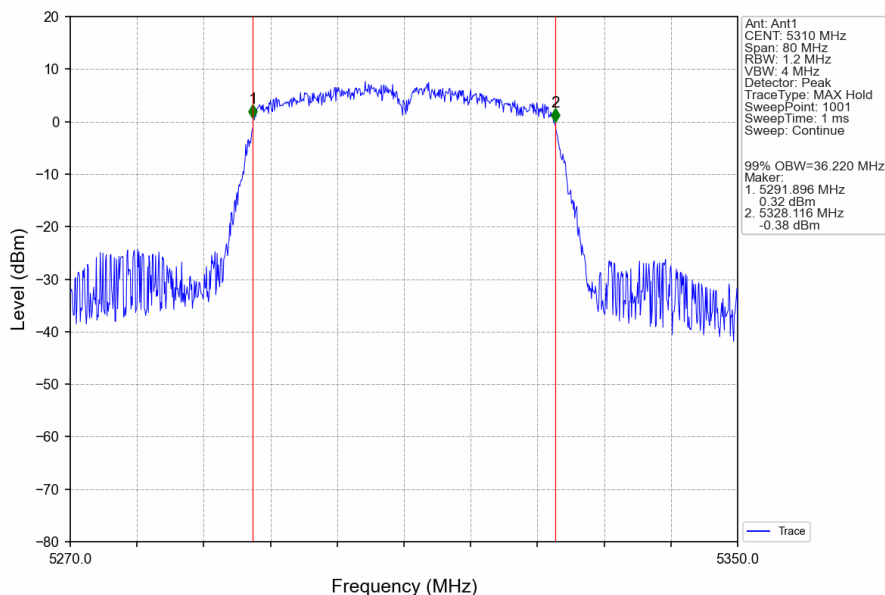
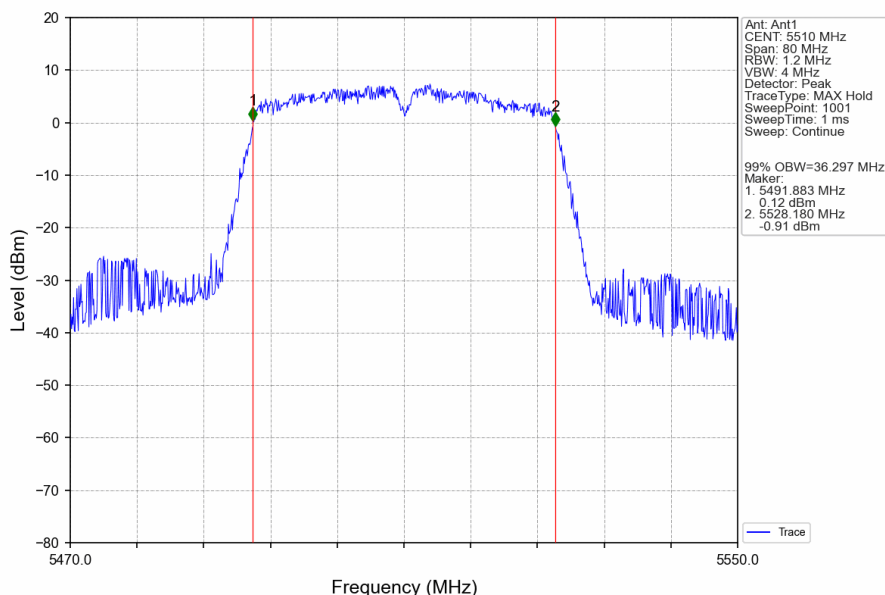


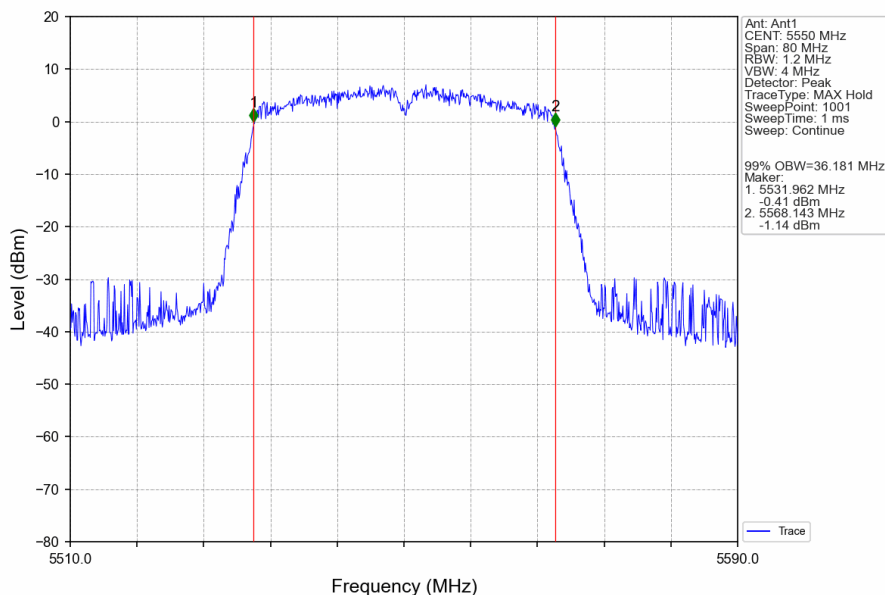
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



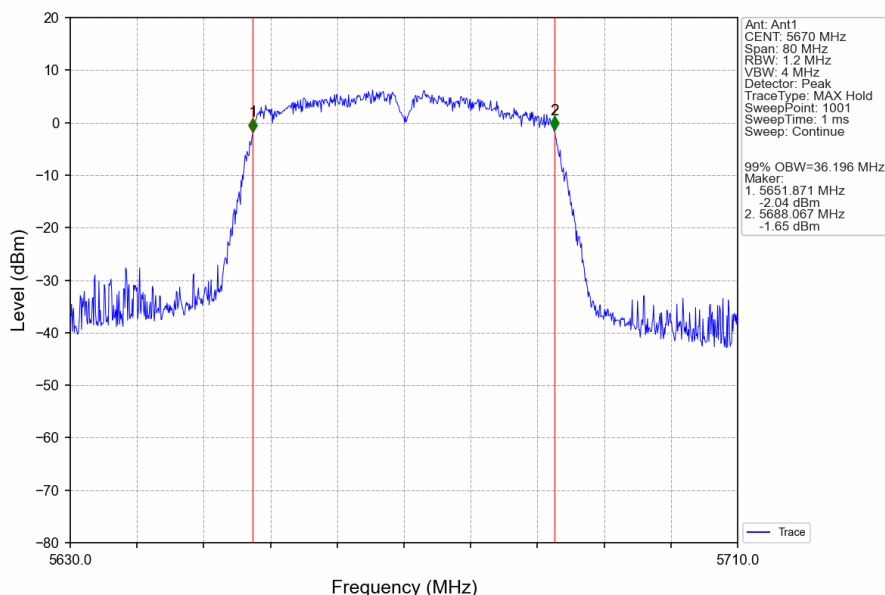
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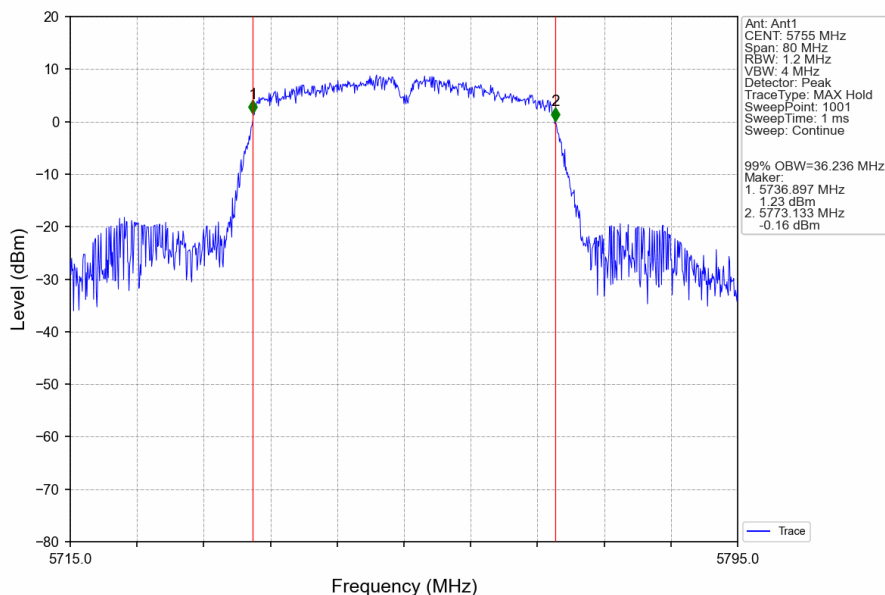
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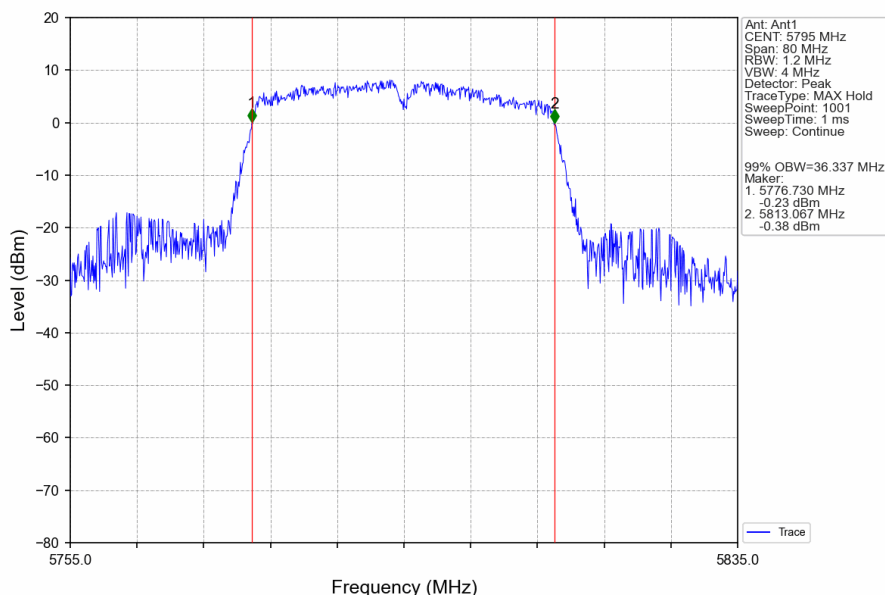
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



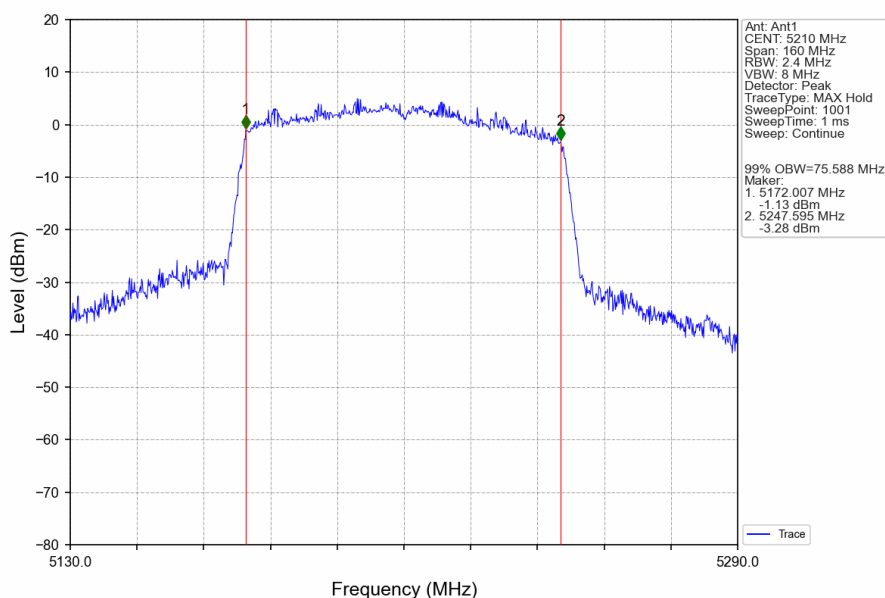
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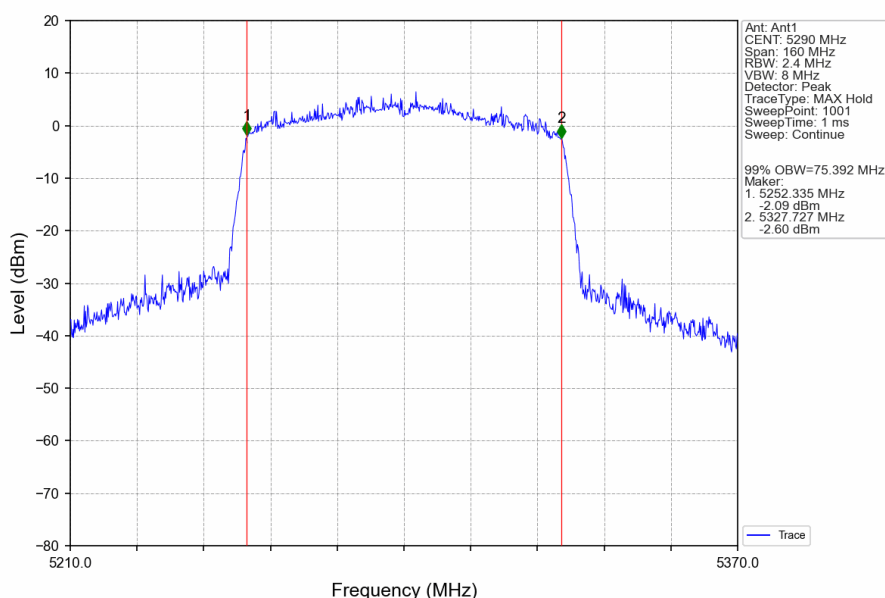
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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

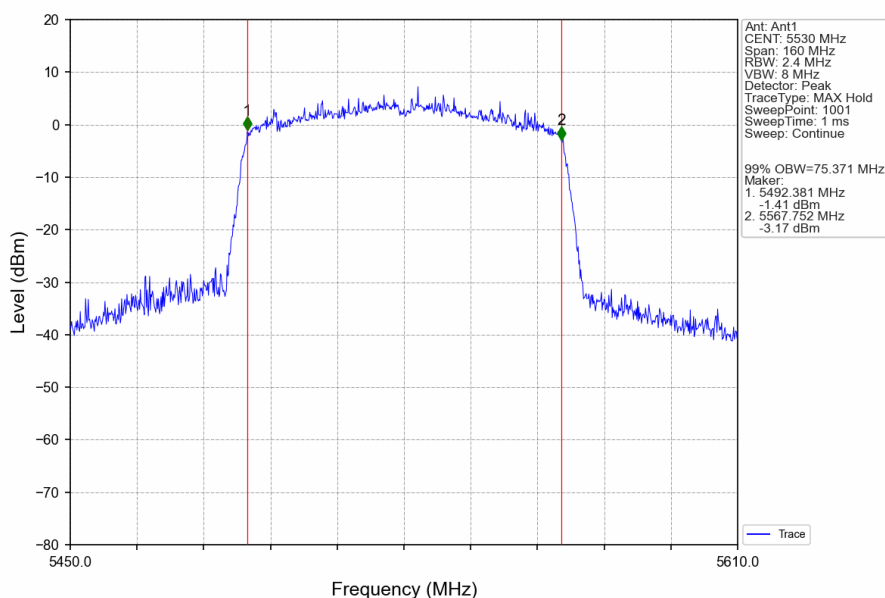
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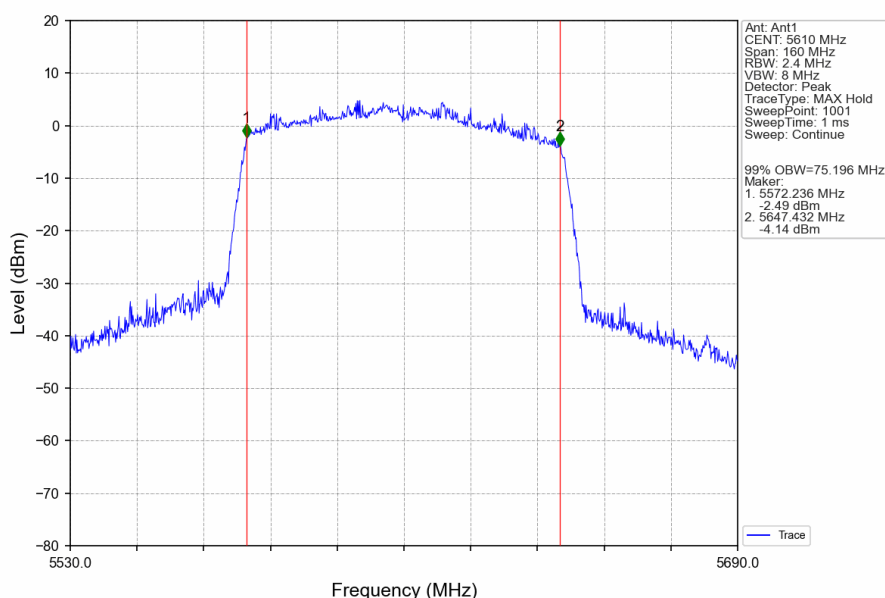
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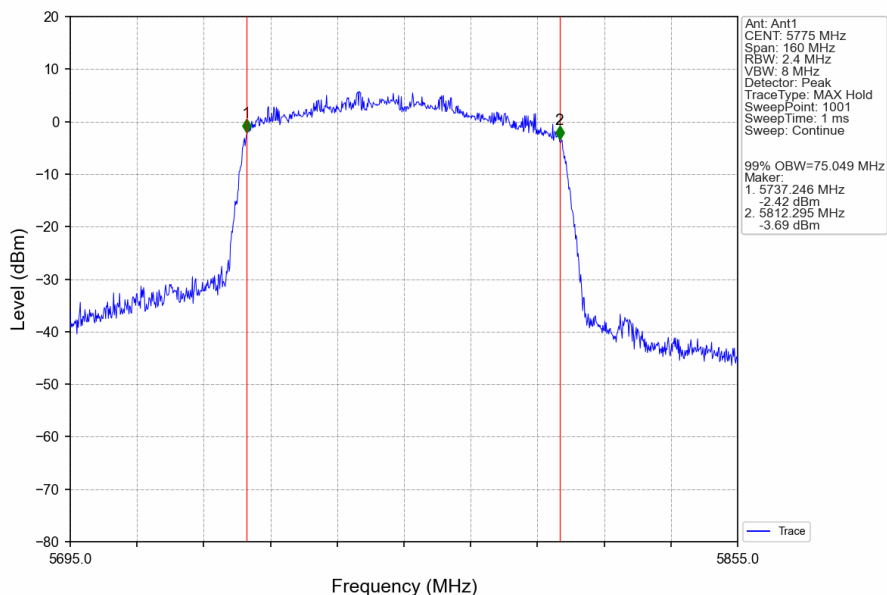
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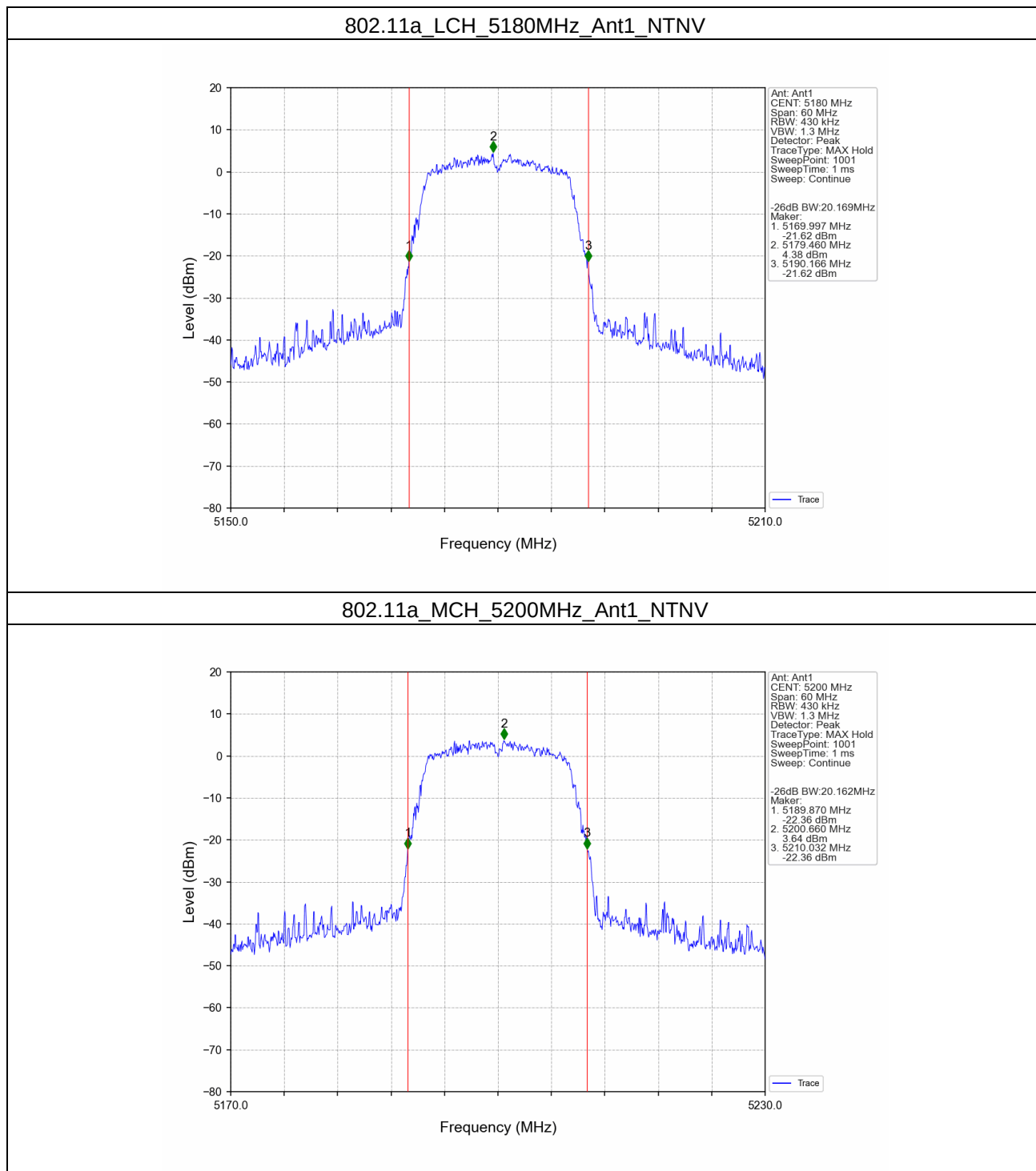
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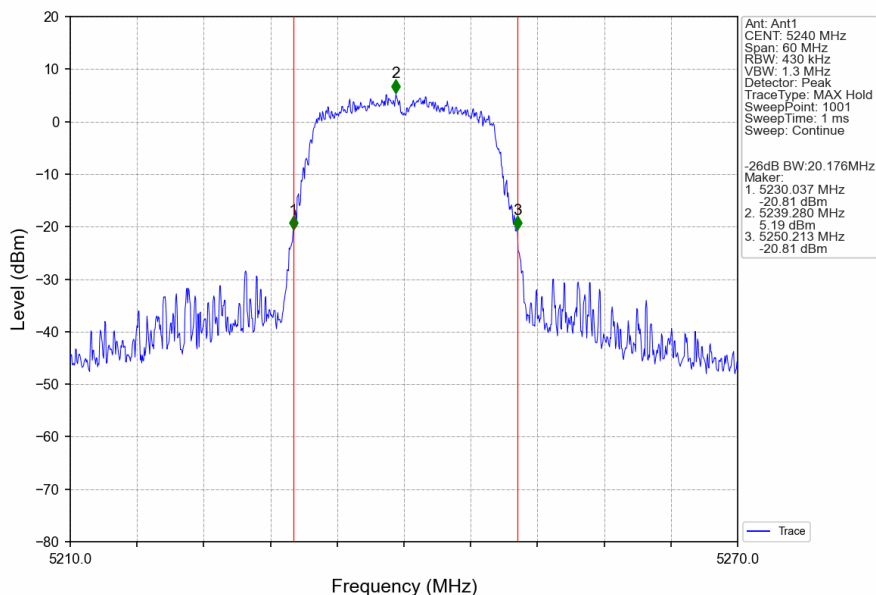
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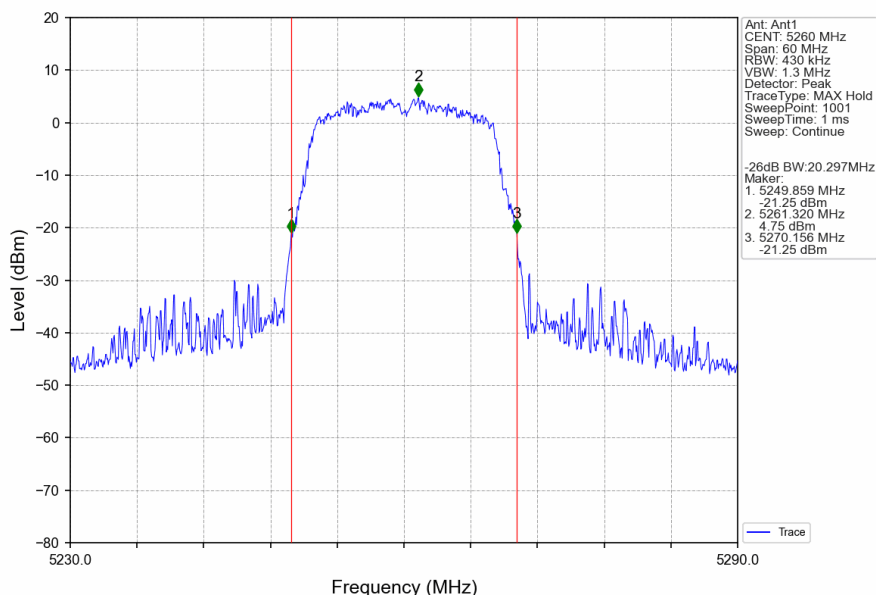
2.2.2 26dB BW



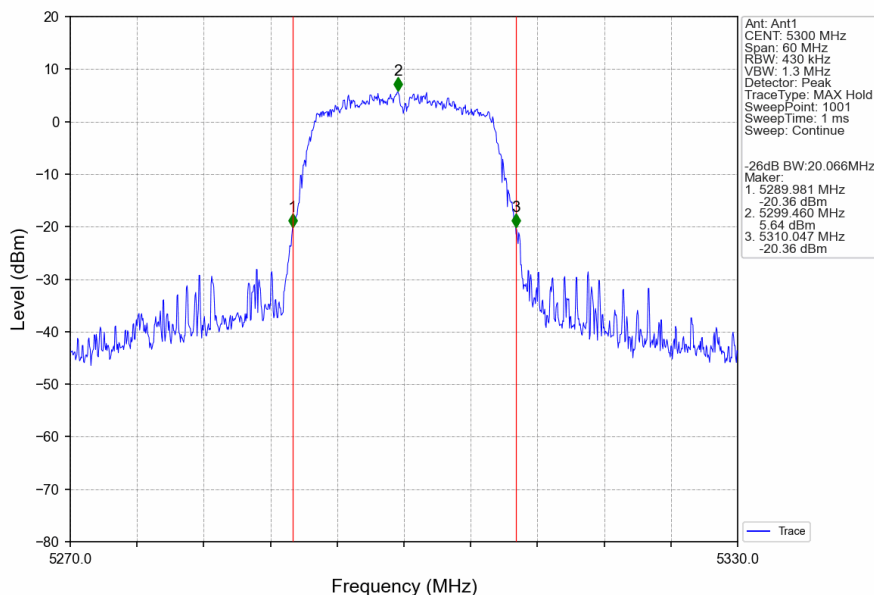
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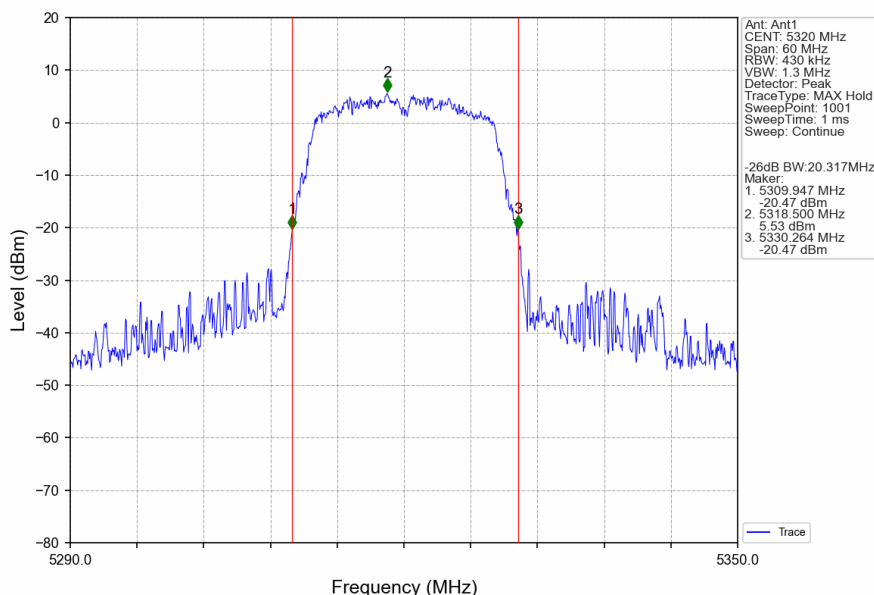
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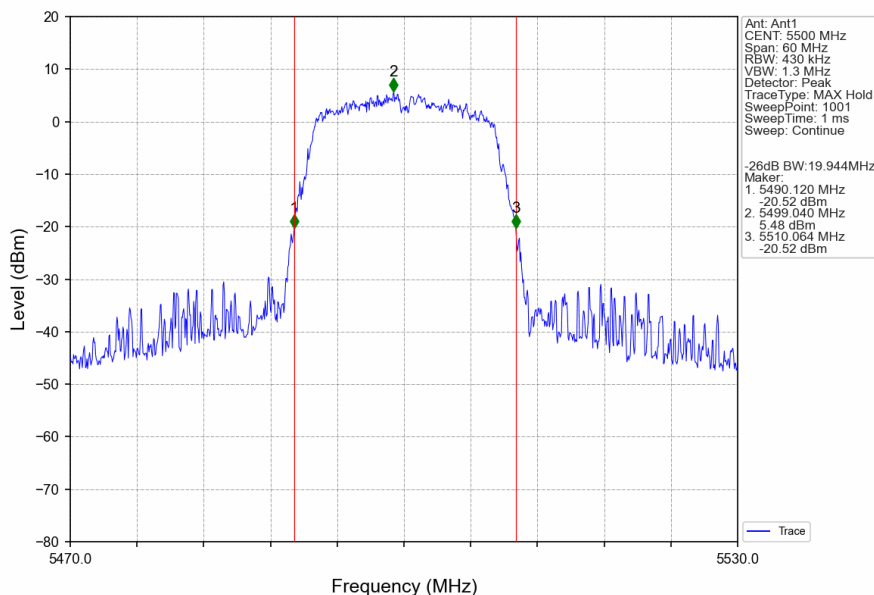
802.11a_MCH_5300MHz_Ant1_NTNV



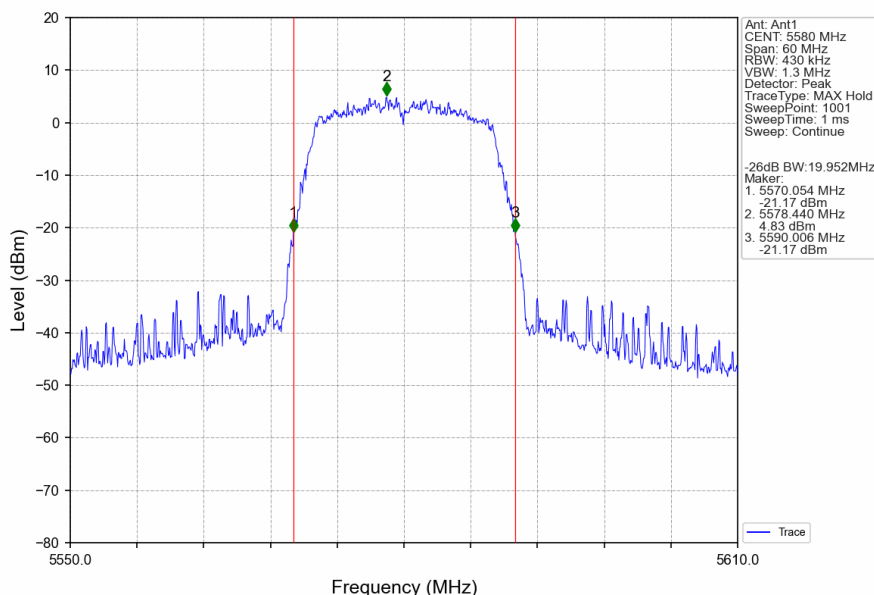
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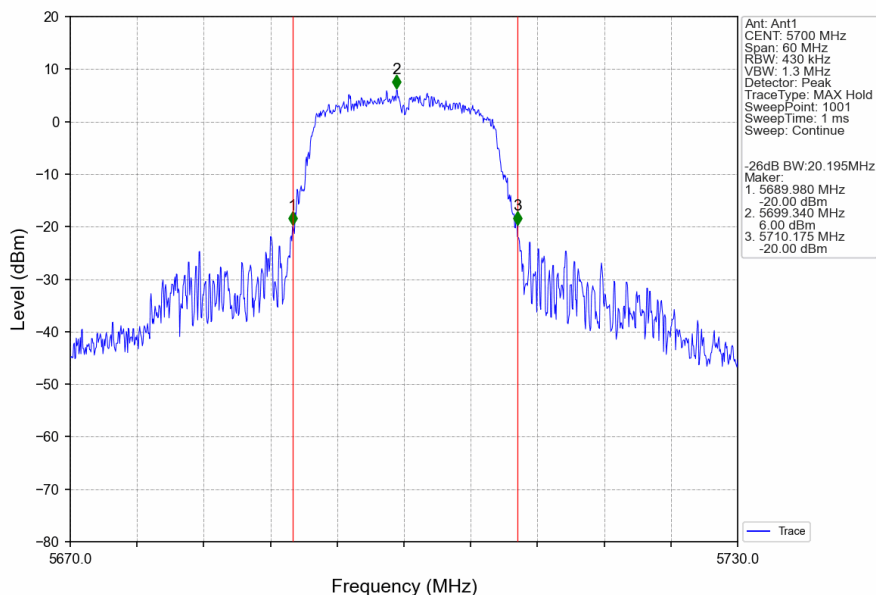
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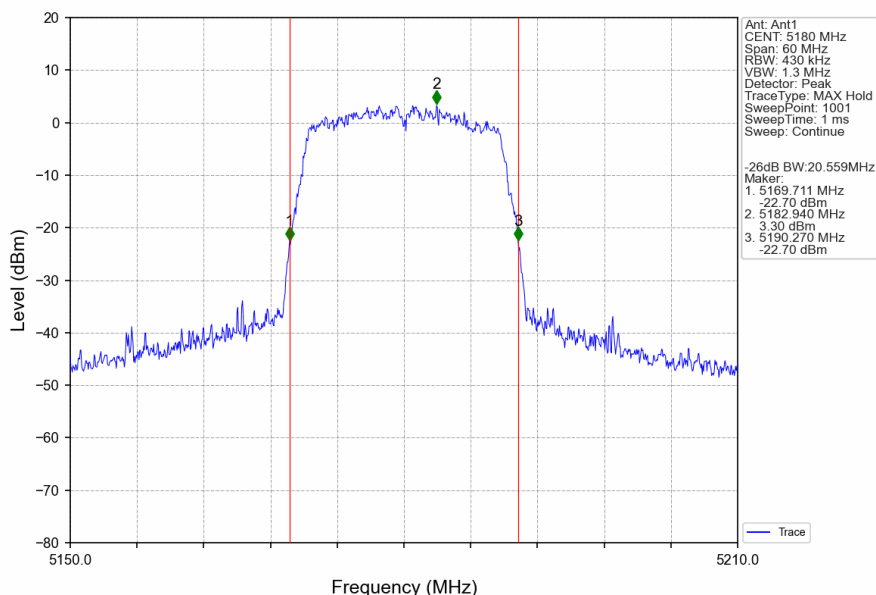
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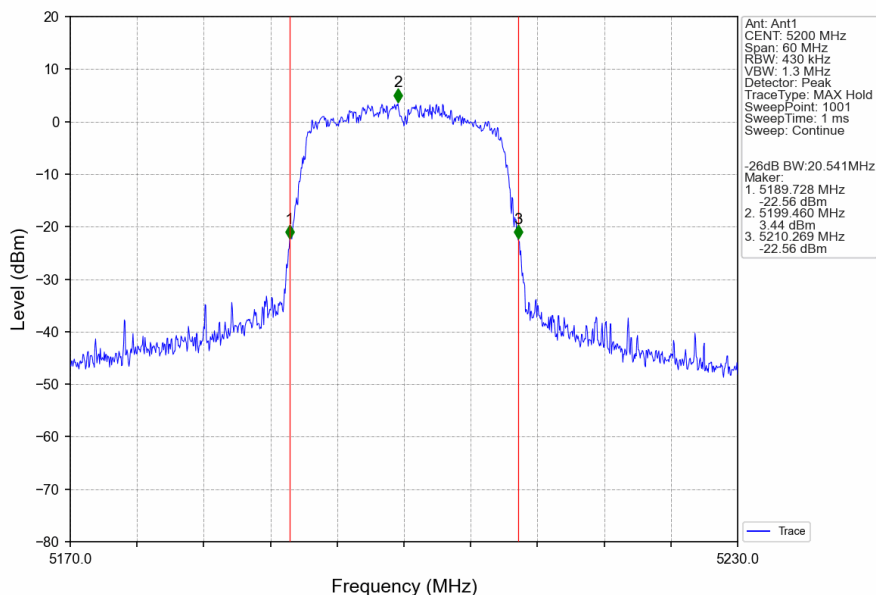
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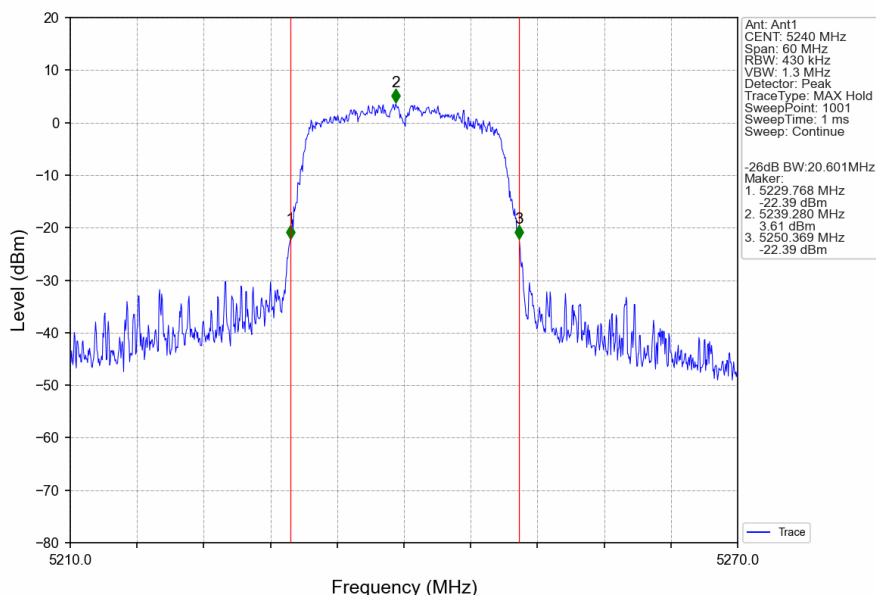
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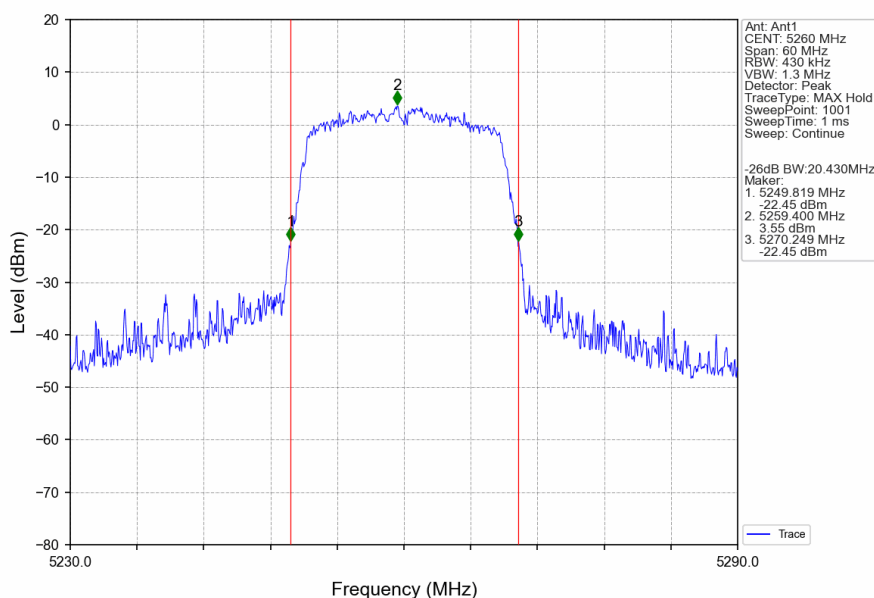
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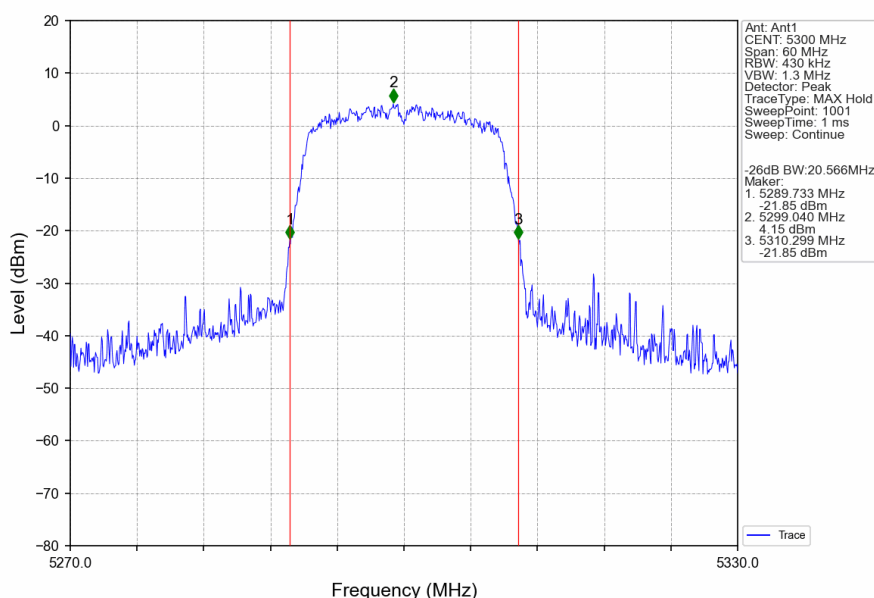
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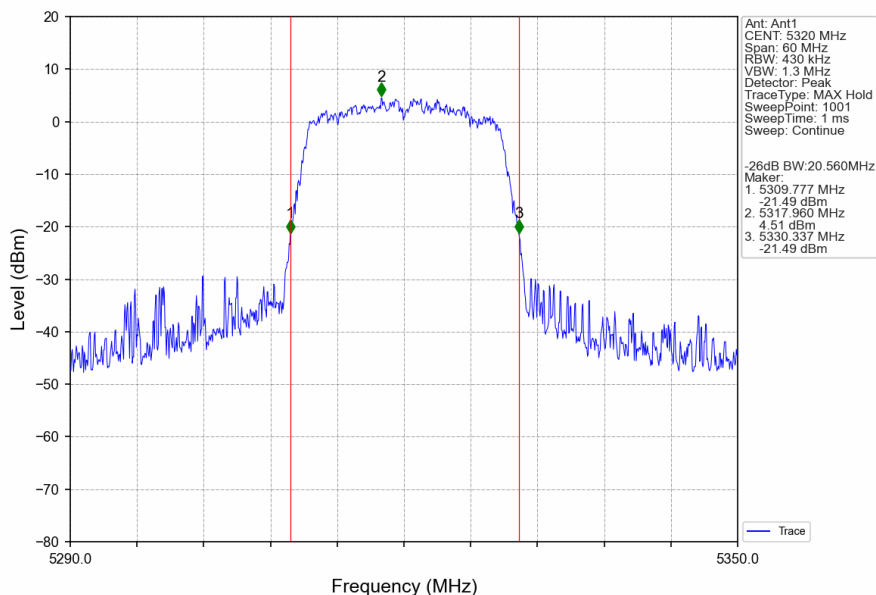
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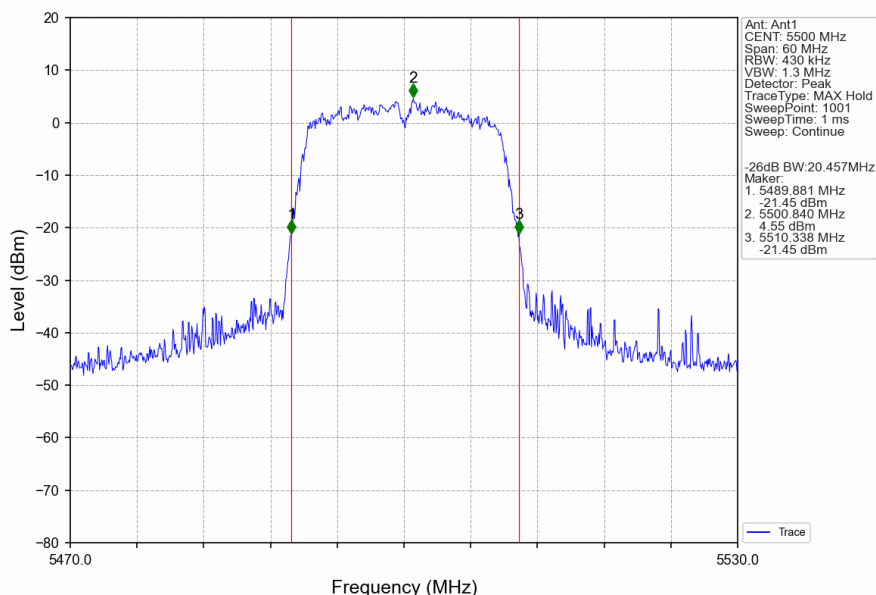
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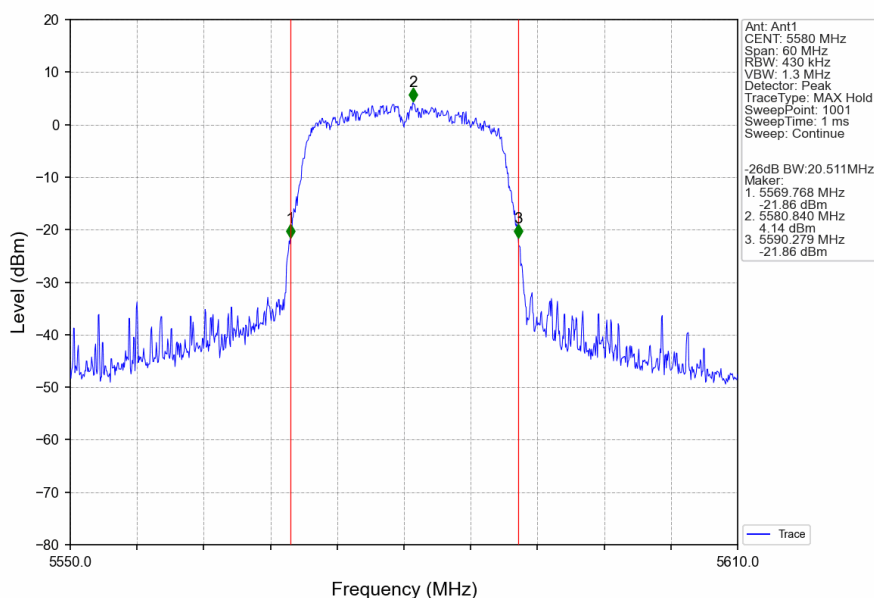
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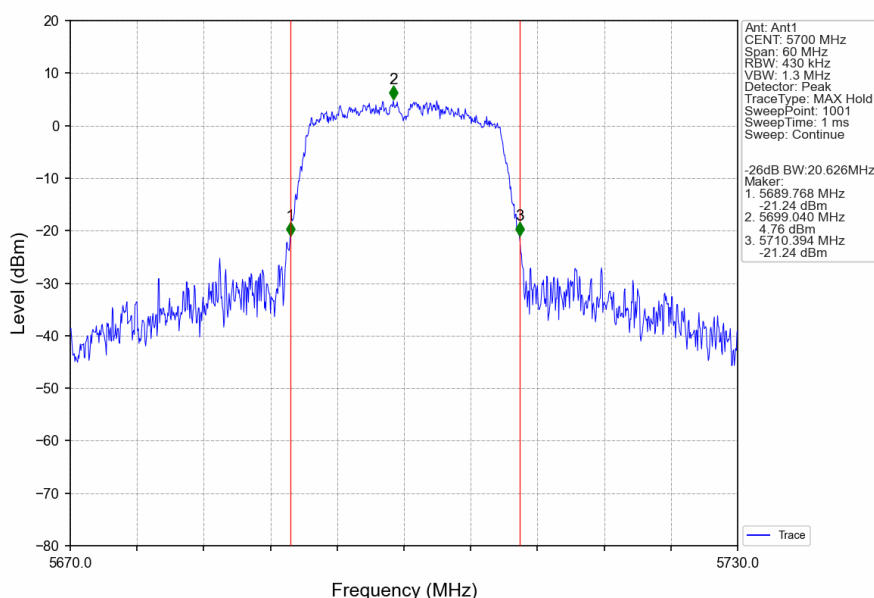
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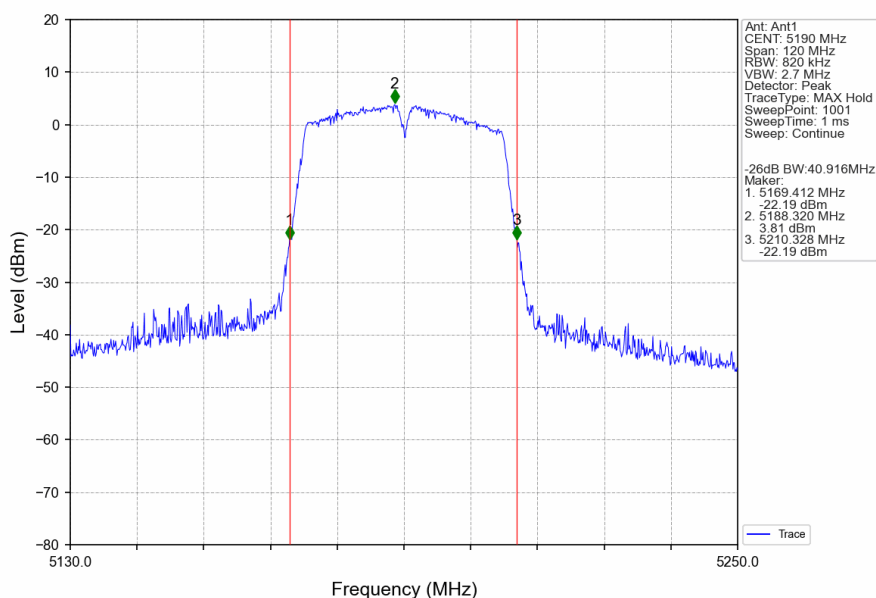
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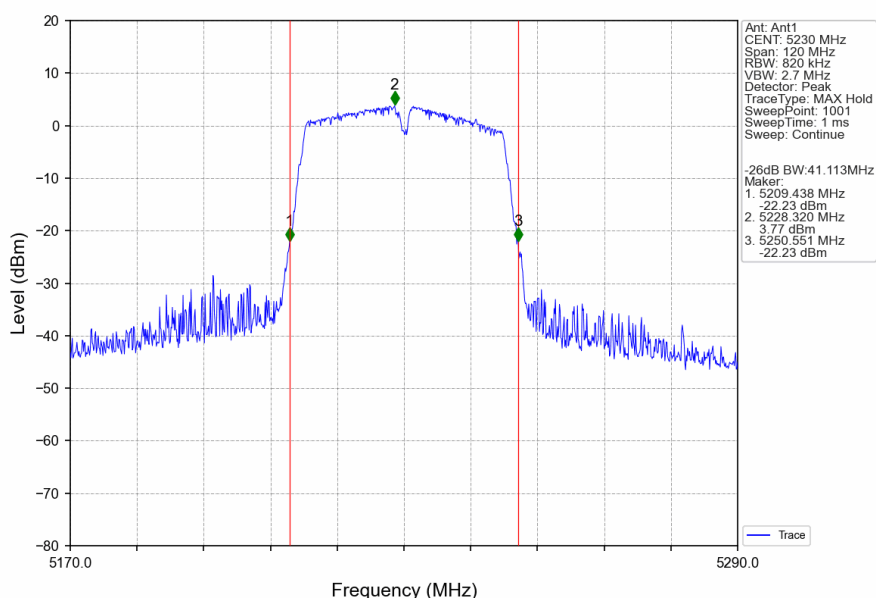
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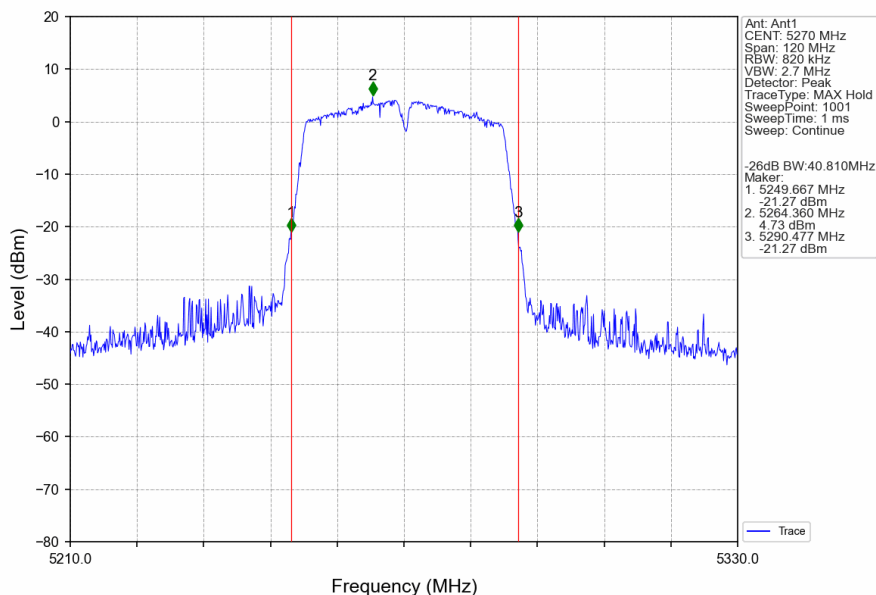
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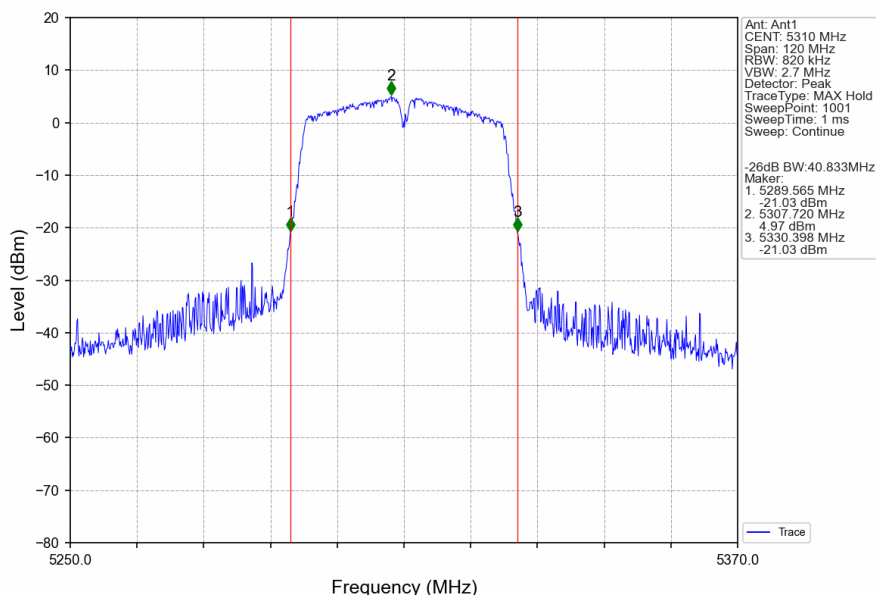
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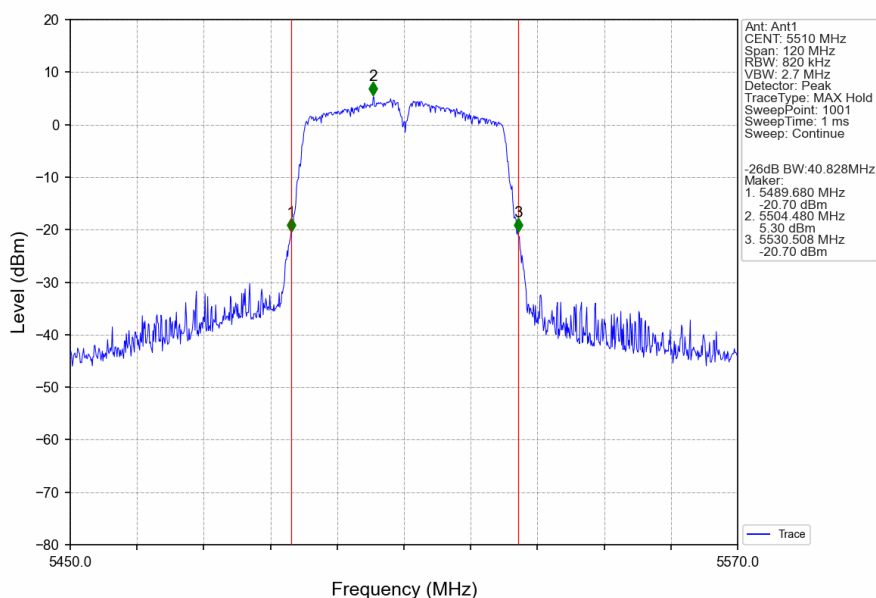
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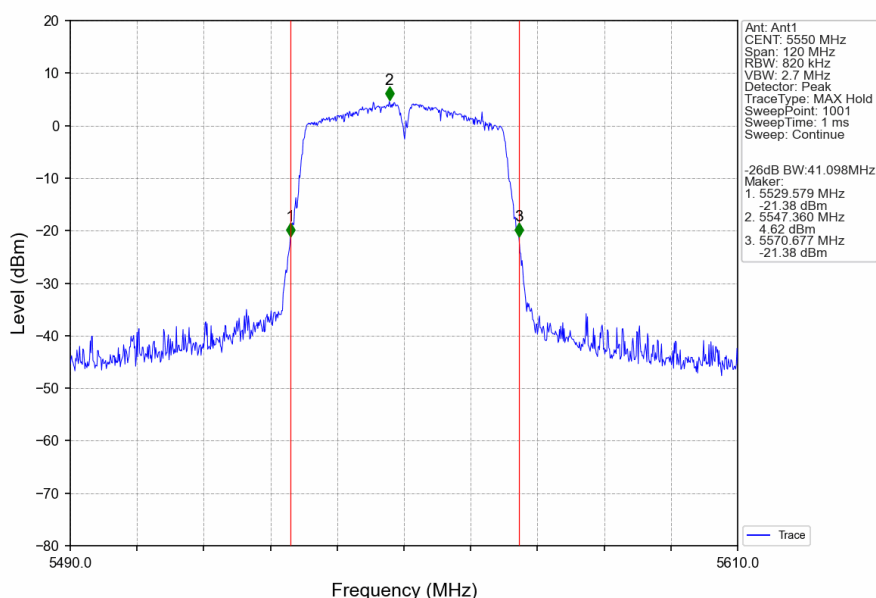
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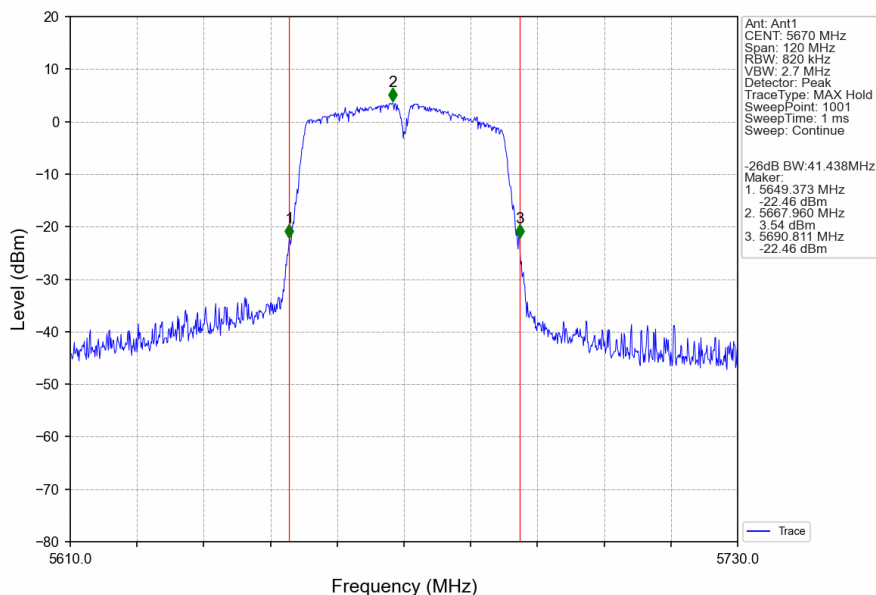
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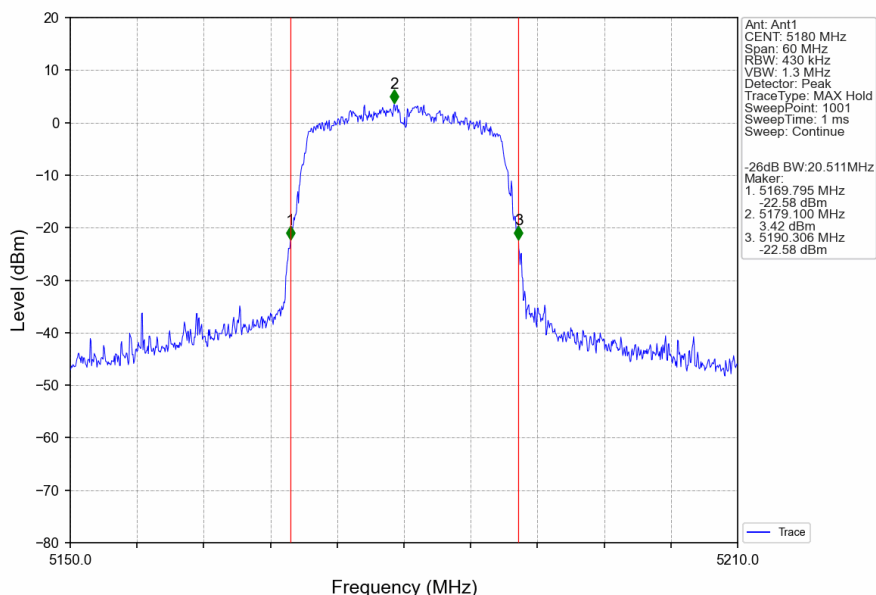
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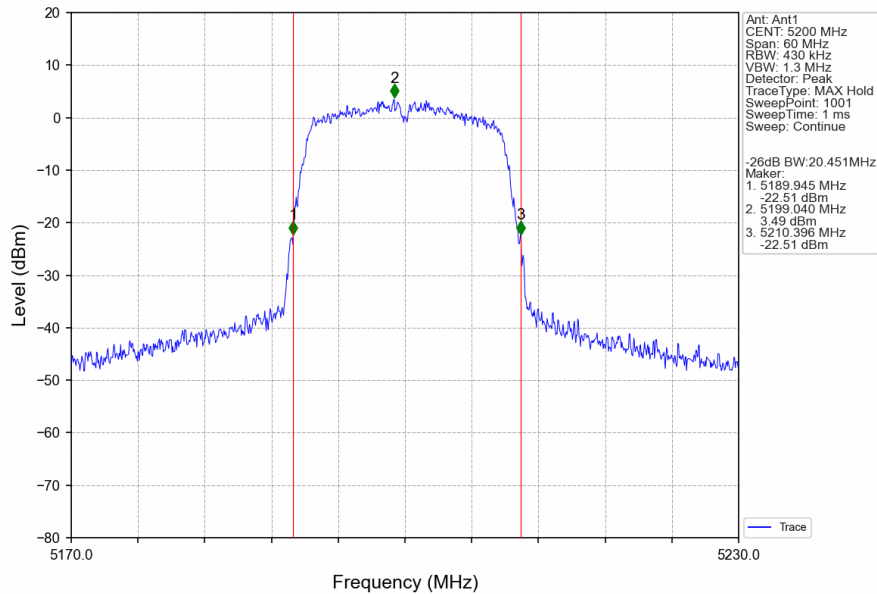
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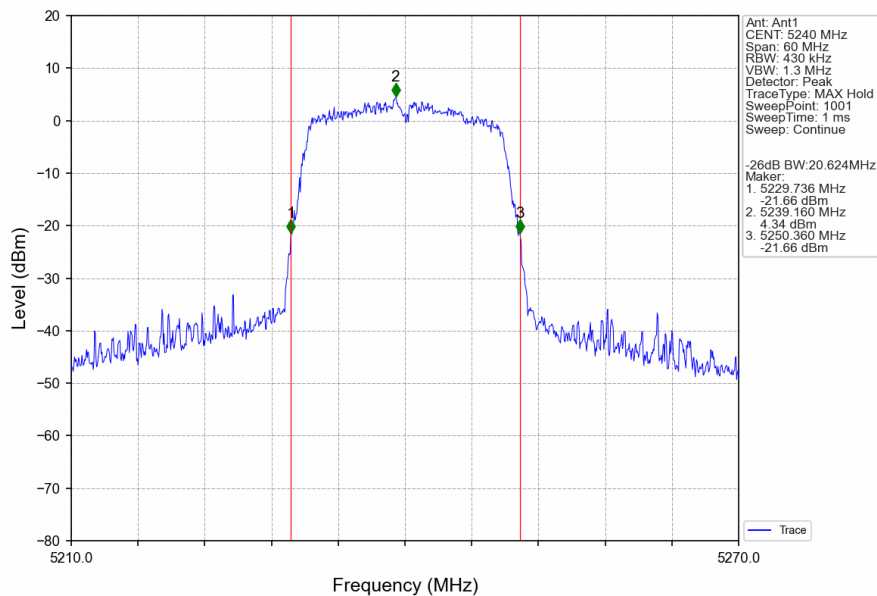
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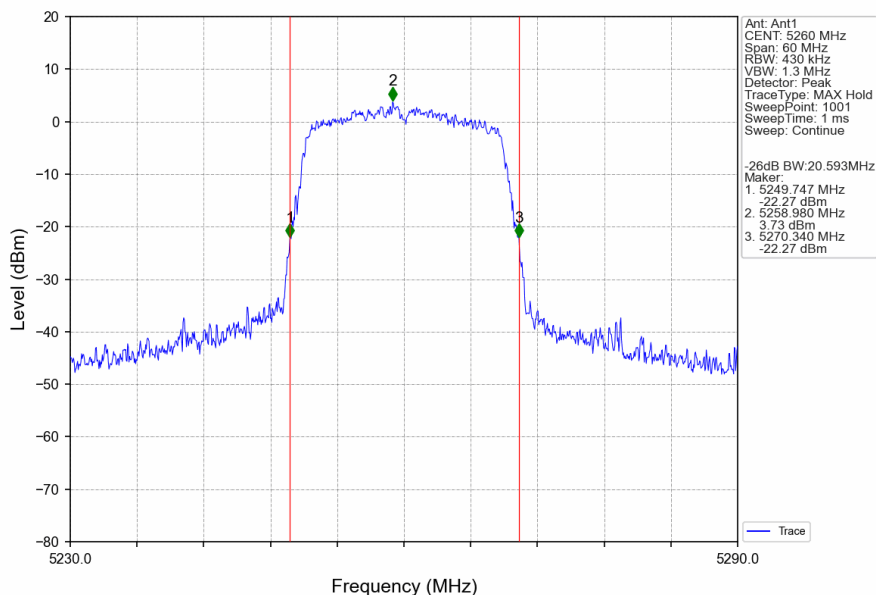
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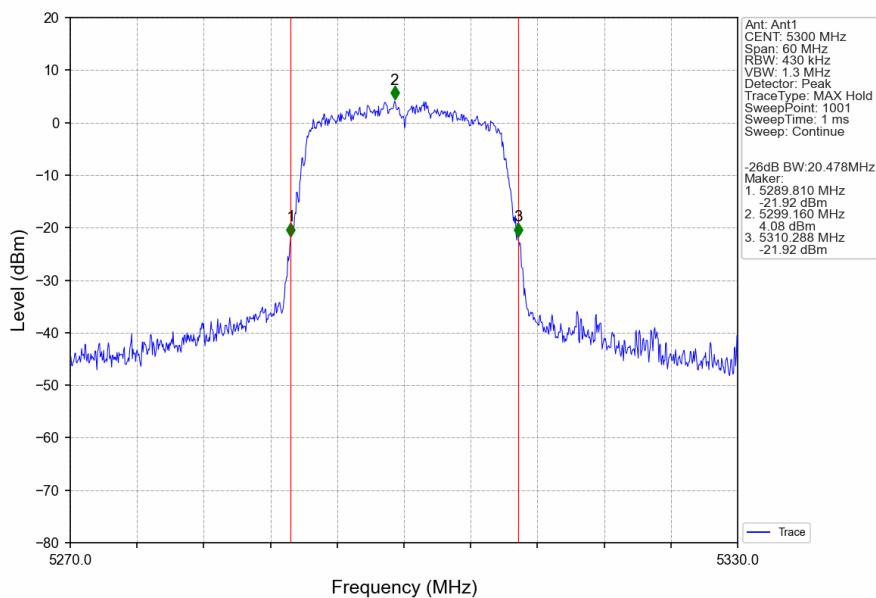
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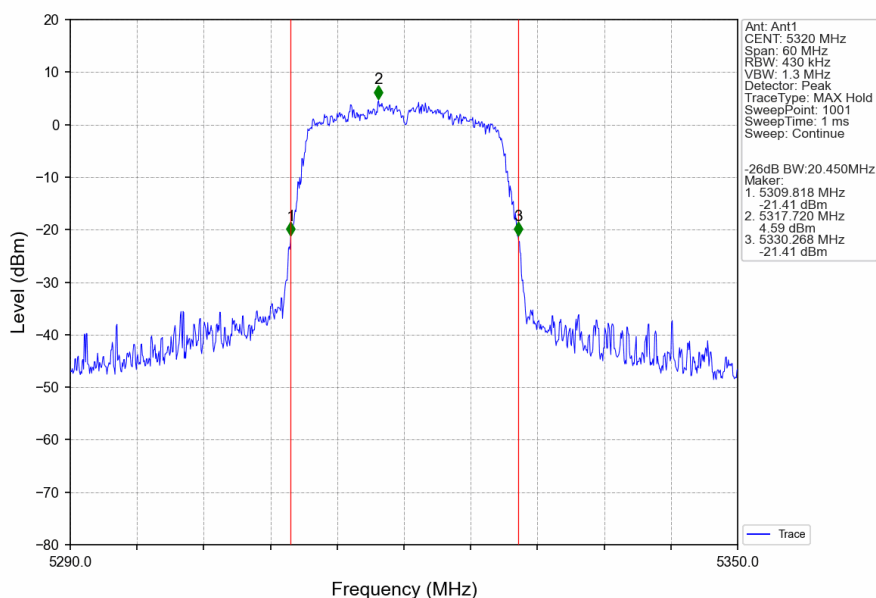
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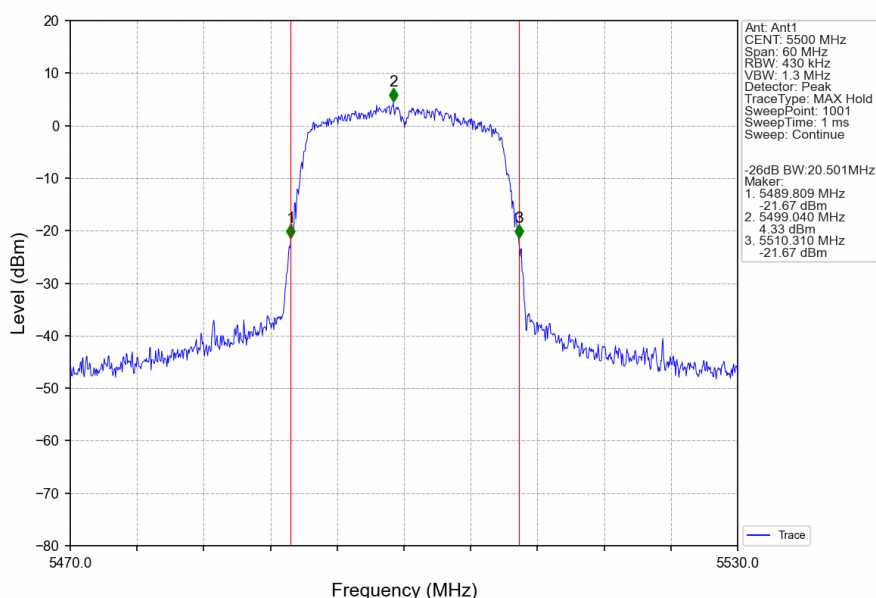
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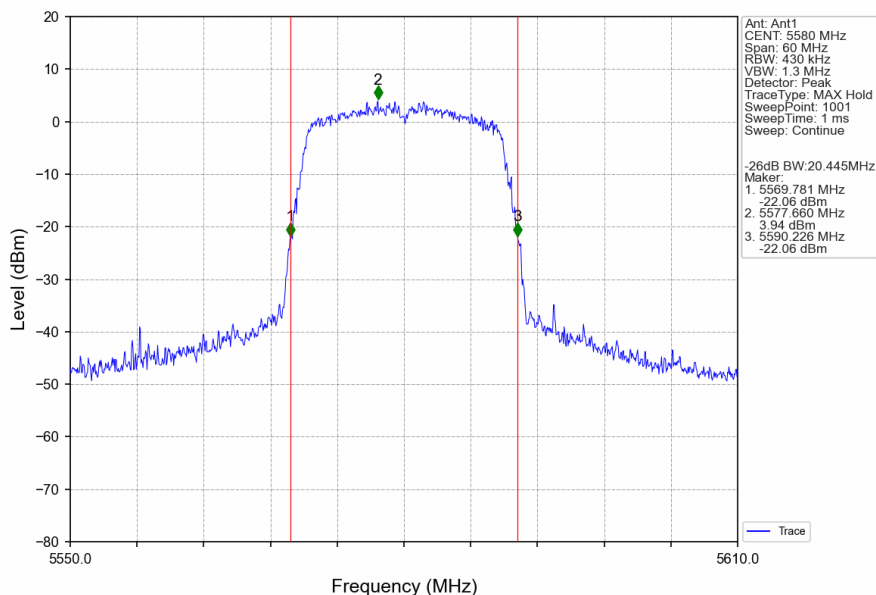
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



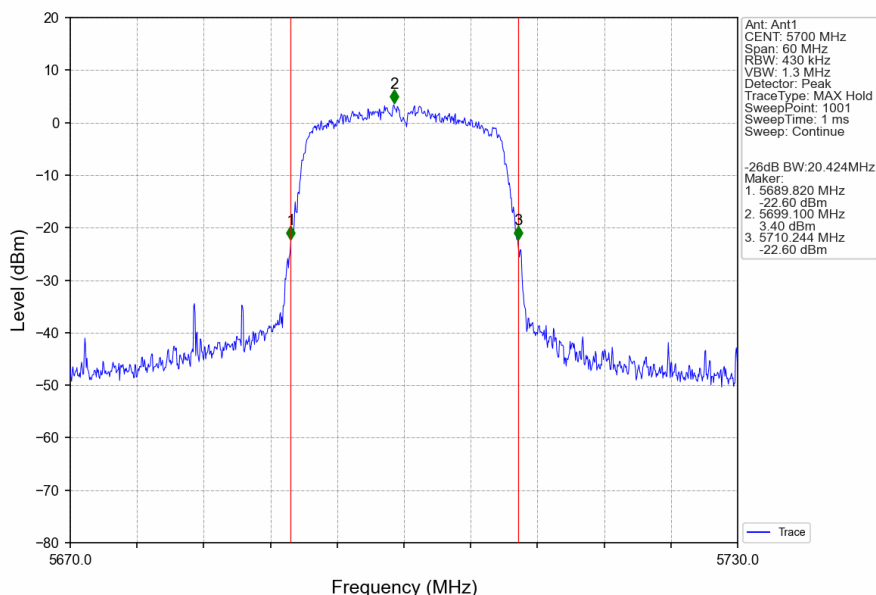
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



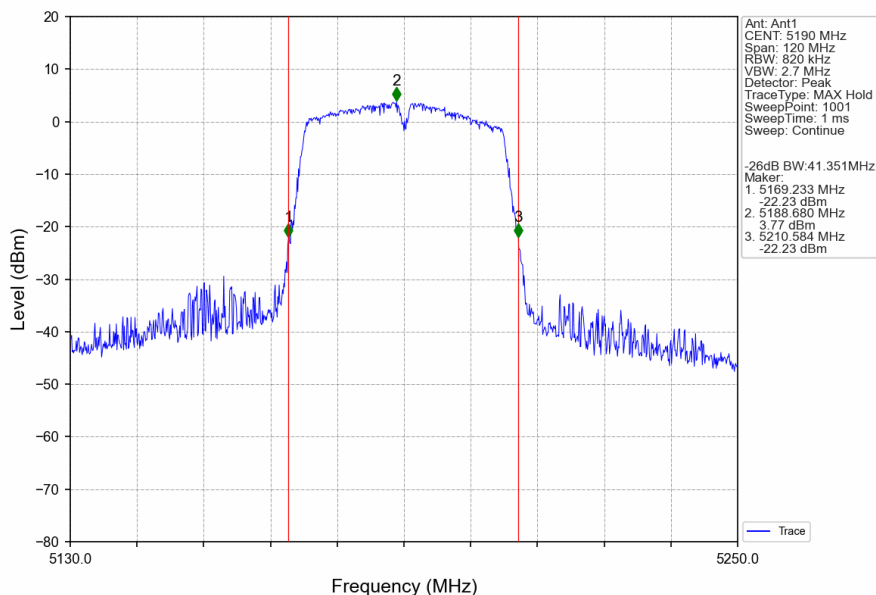
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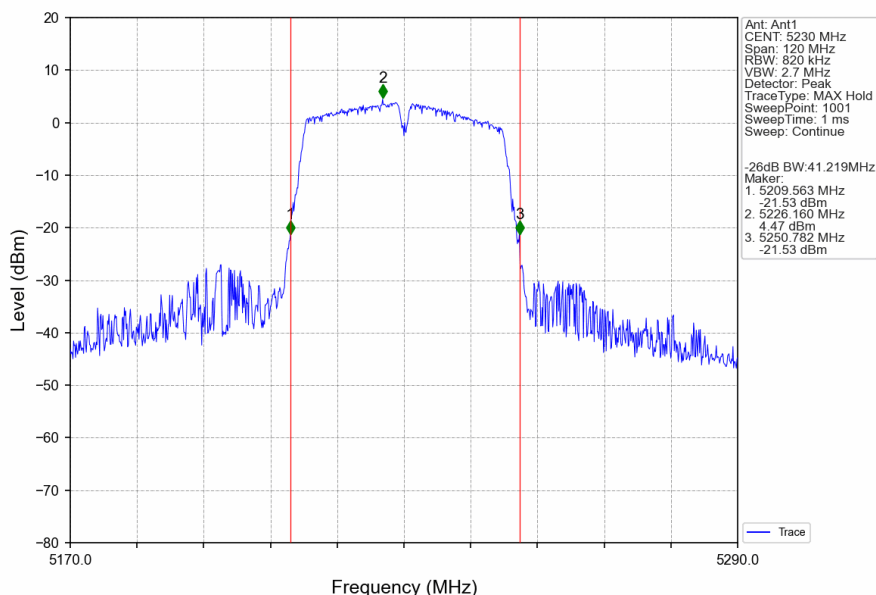
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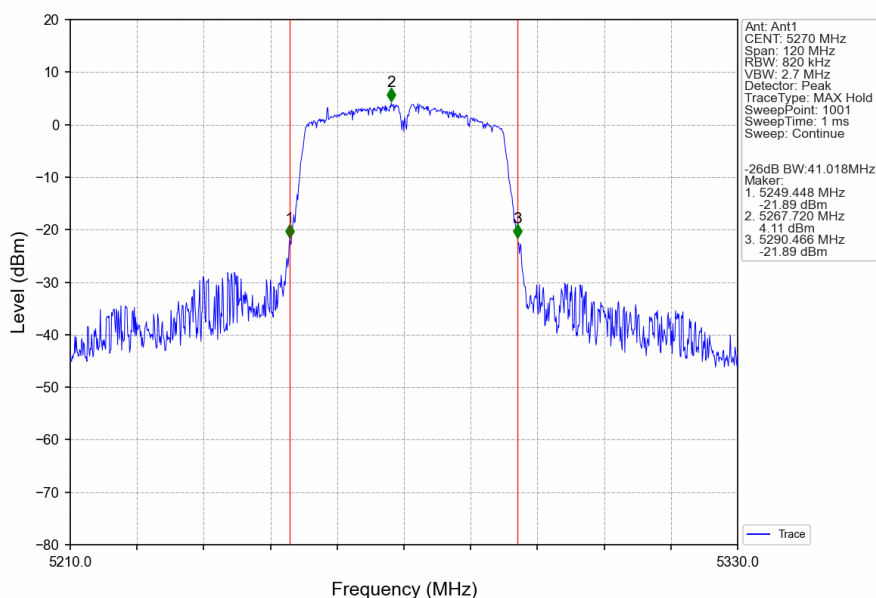
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



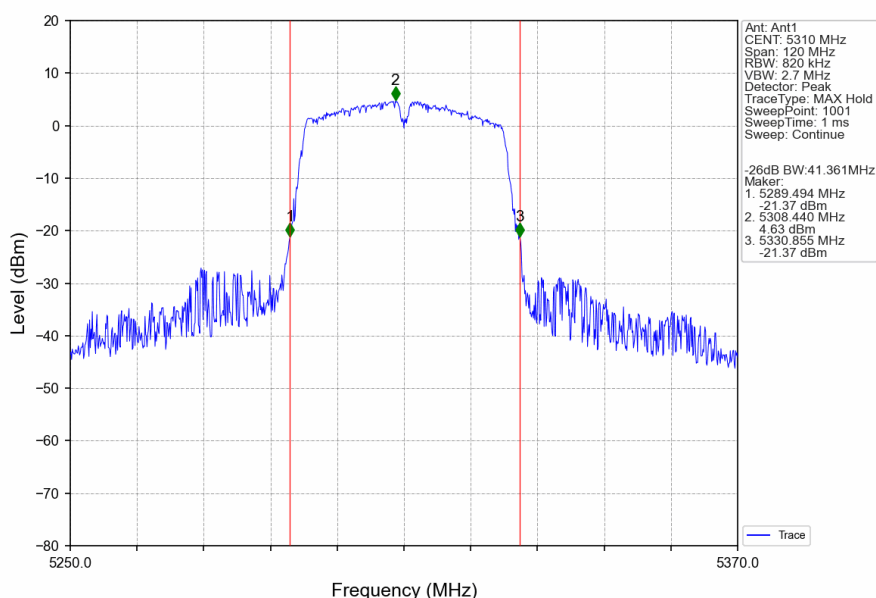
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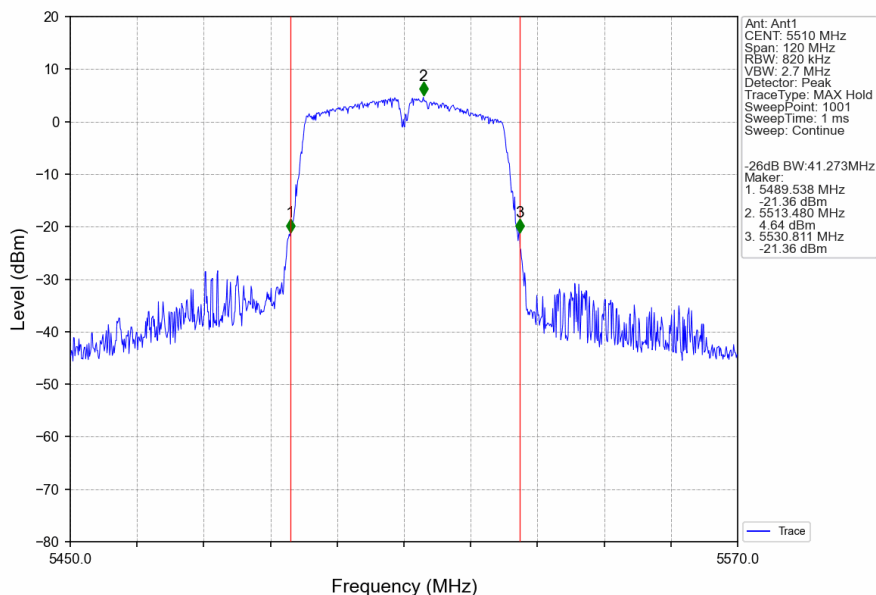
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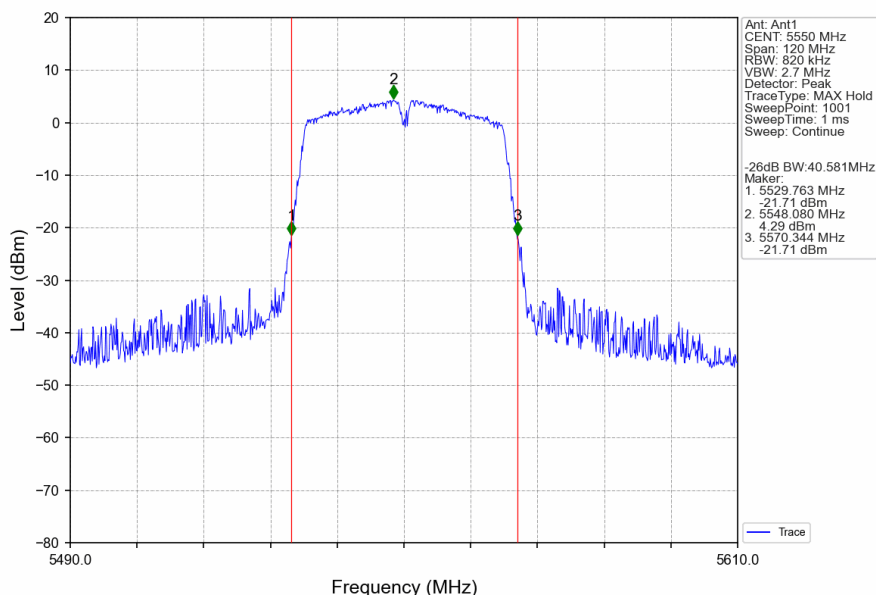
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



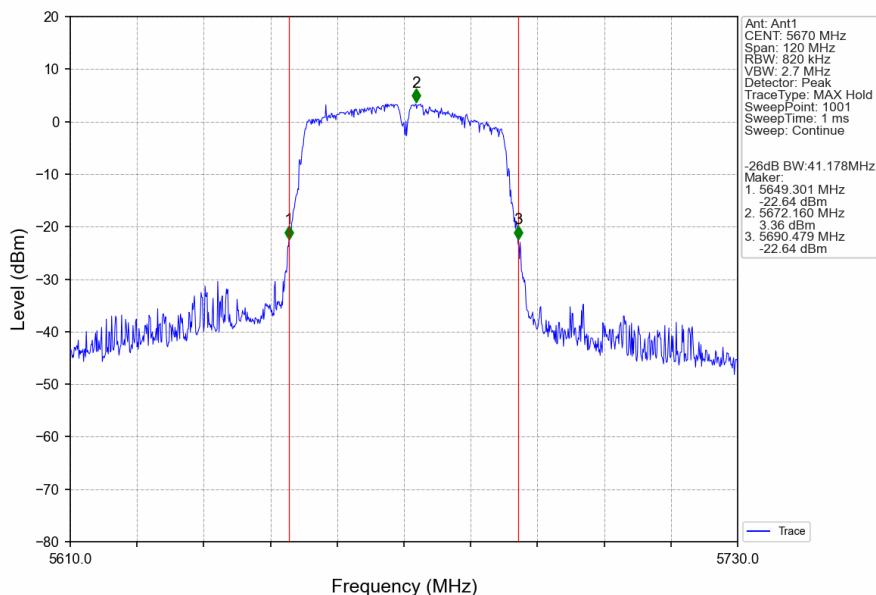
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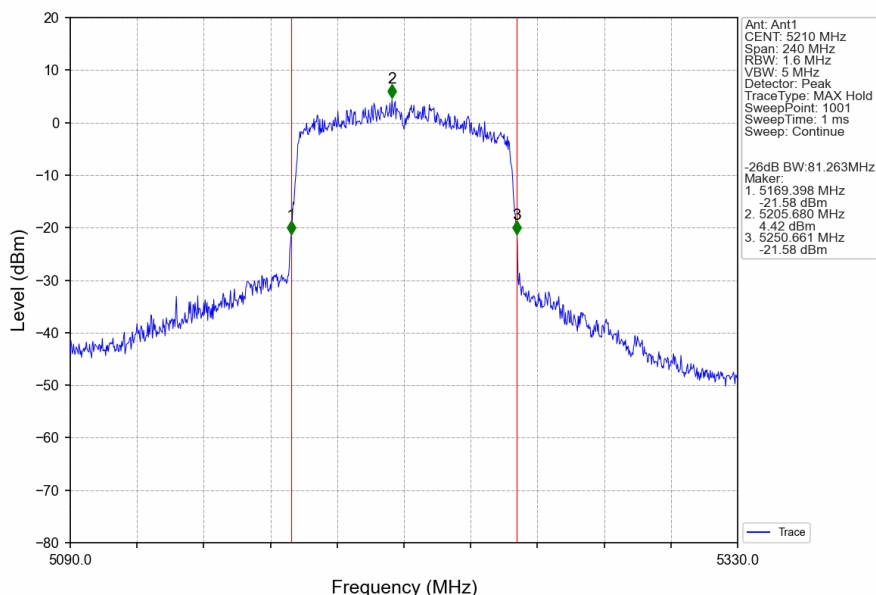
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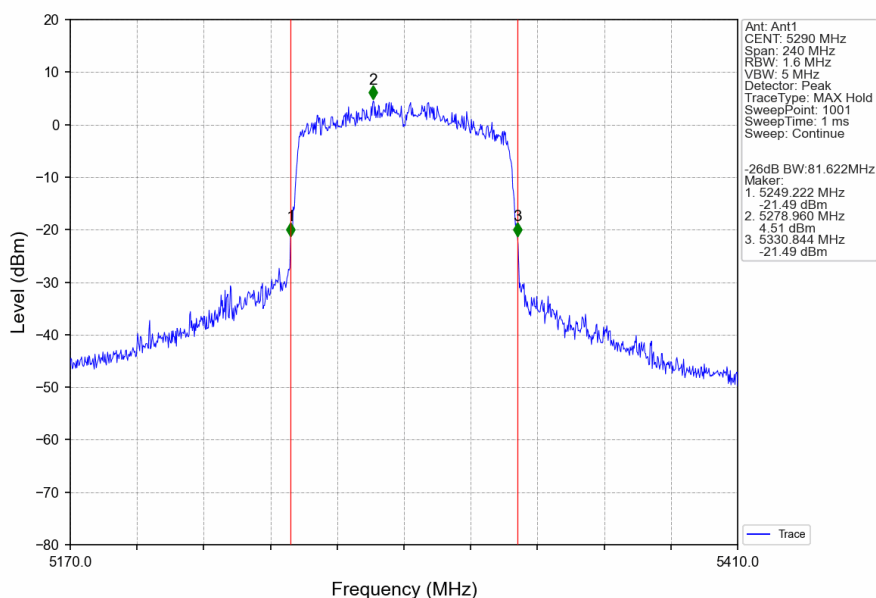
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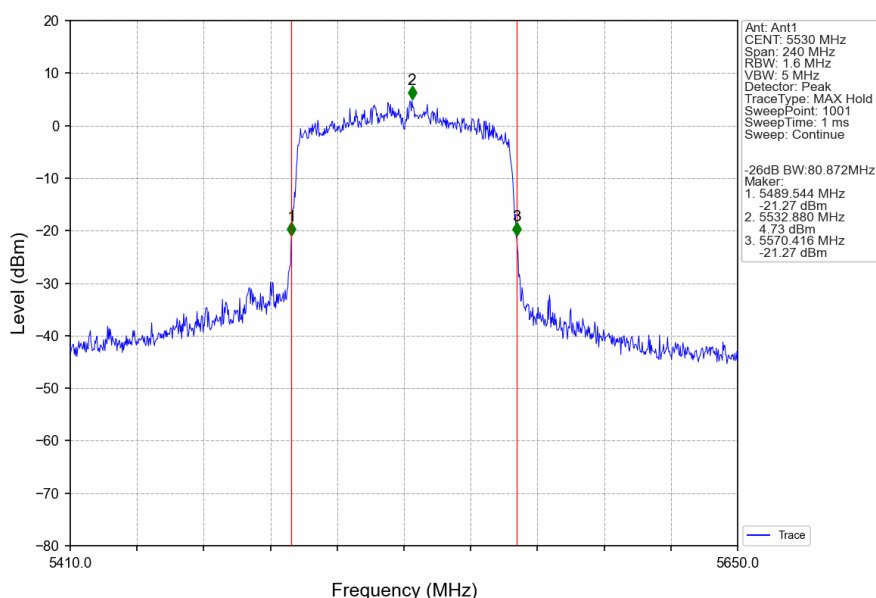
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



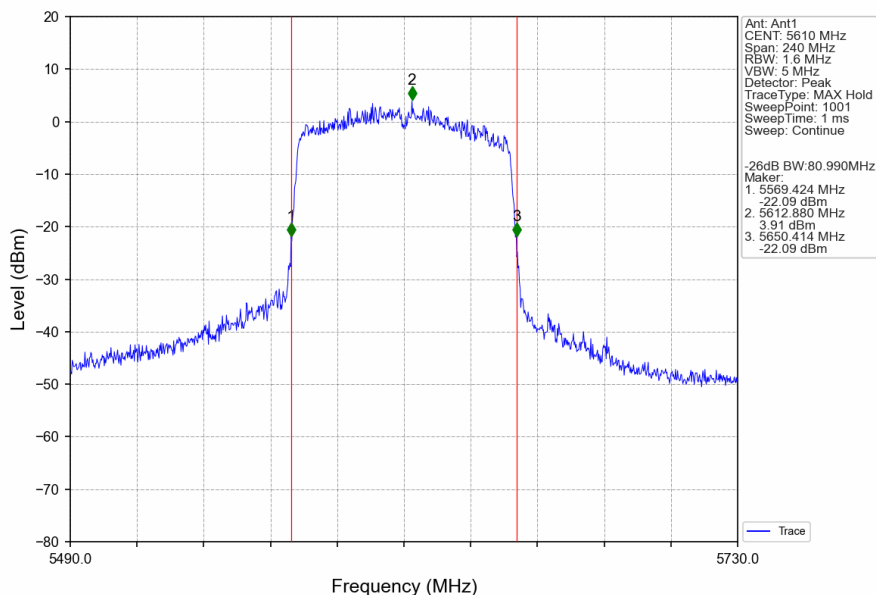
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



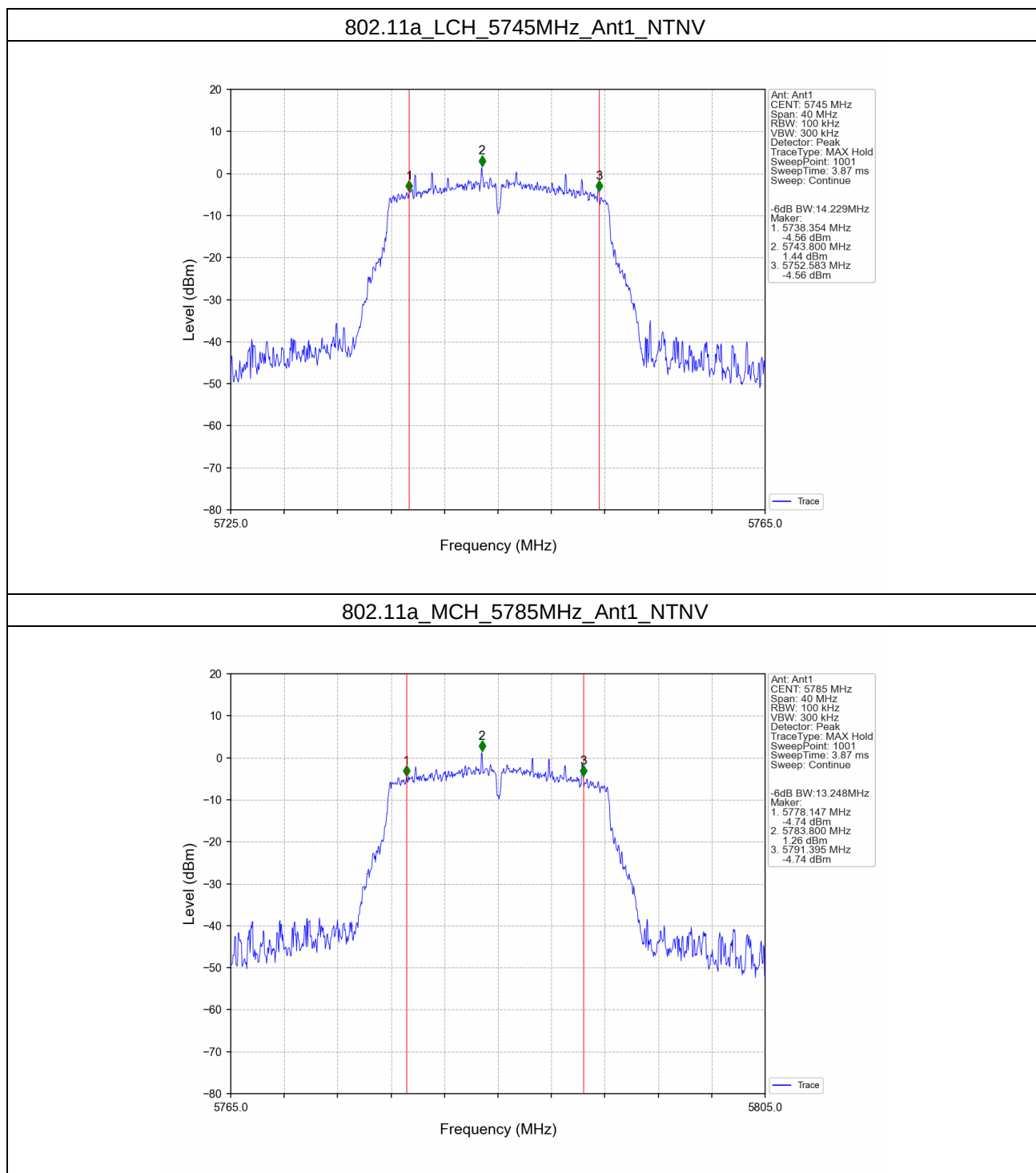
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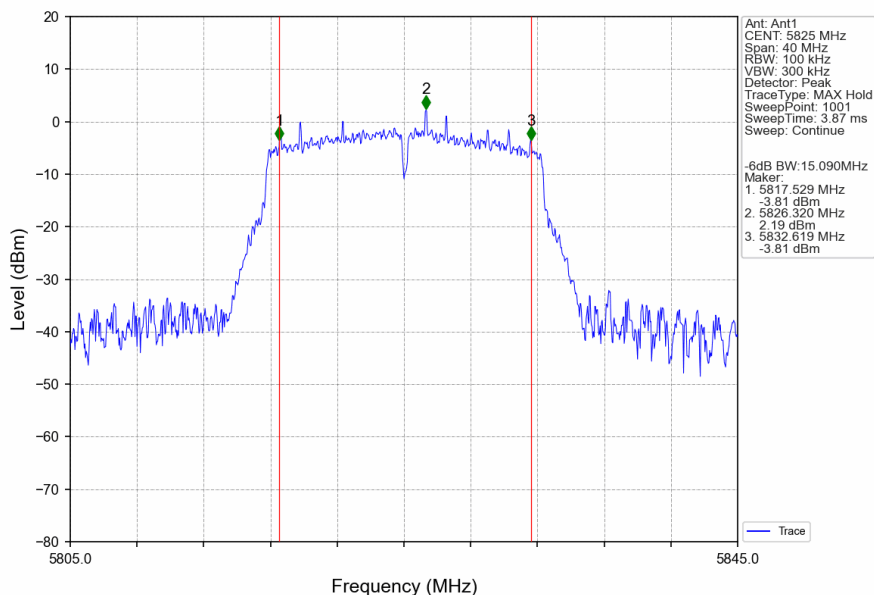
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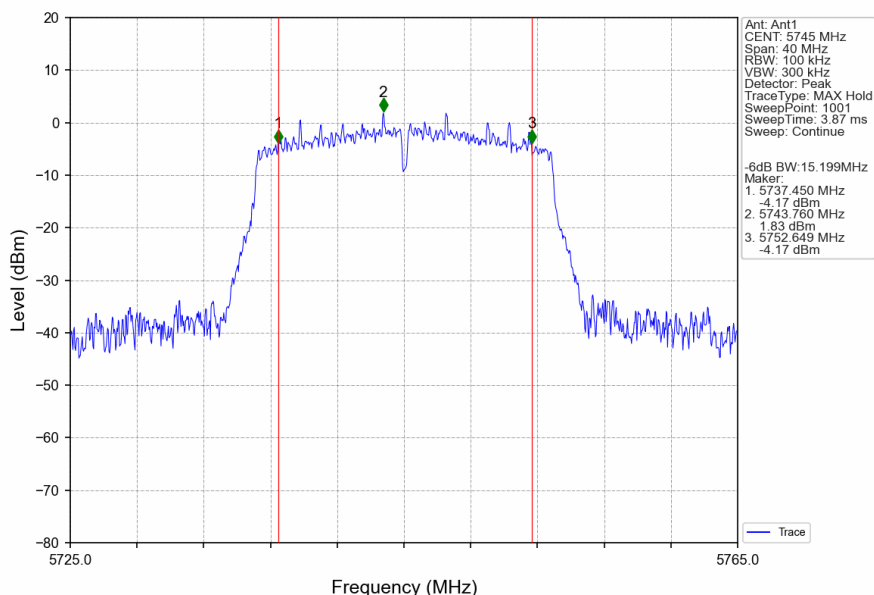
2.2.3 6dB BW



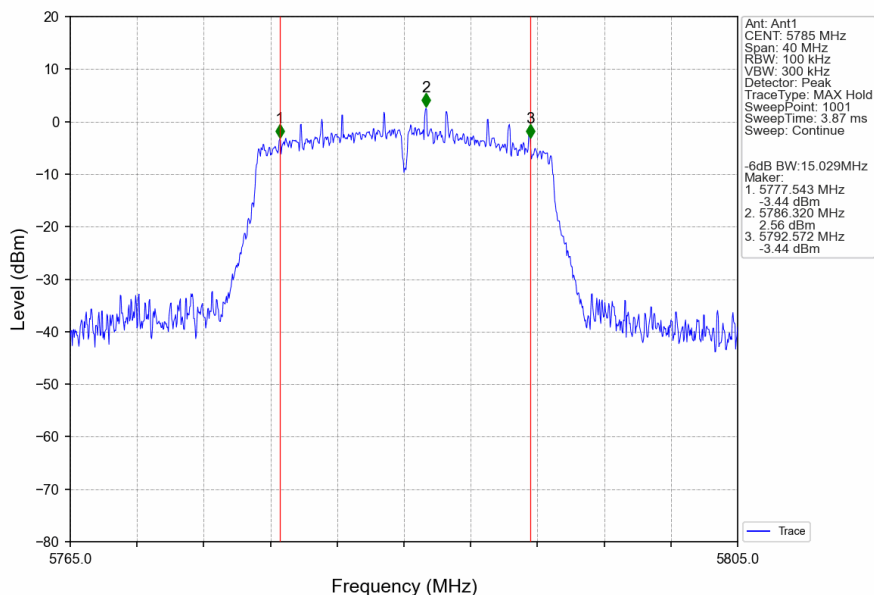
802.11a_HCH_5825MHz_Ant1_NTNV



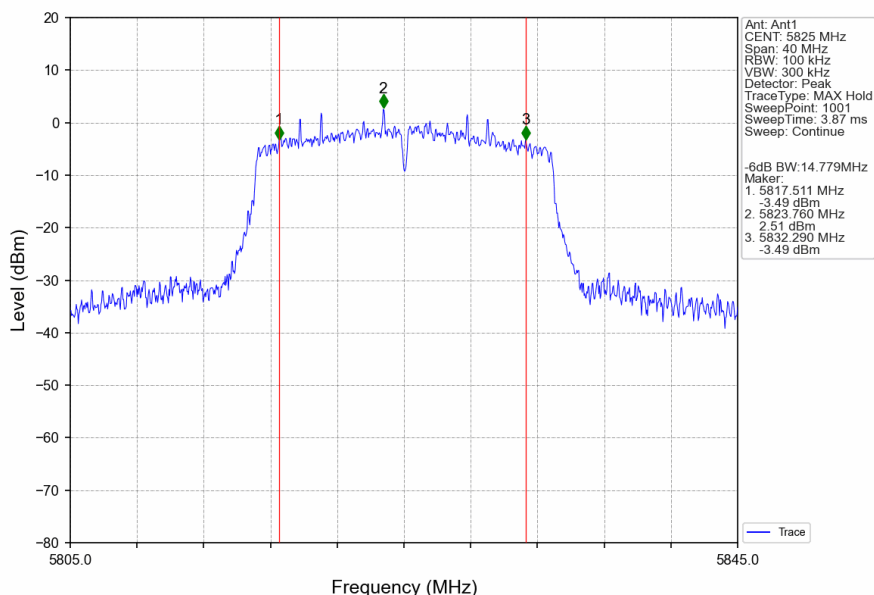
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



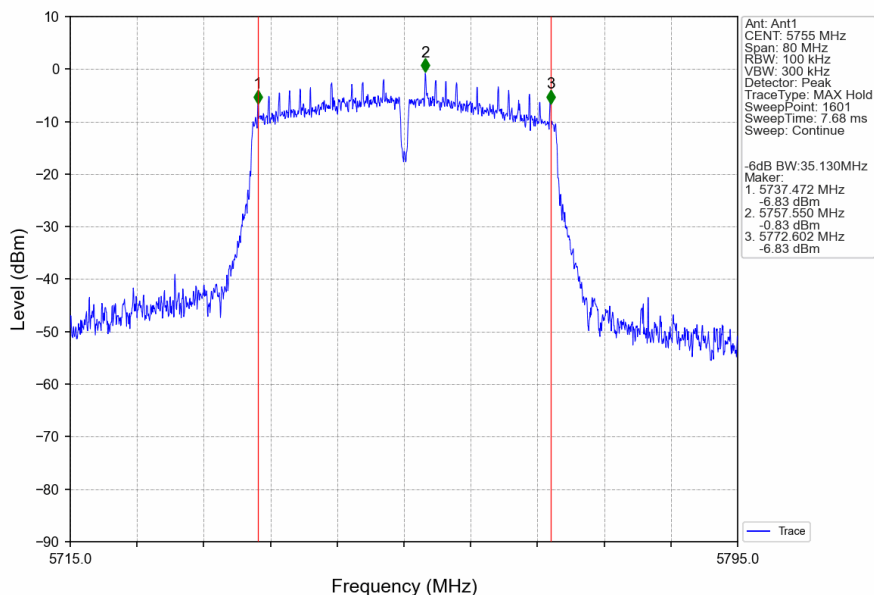
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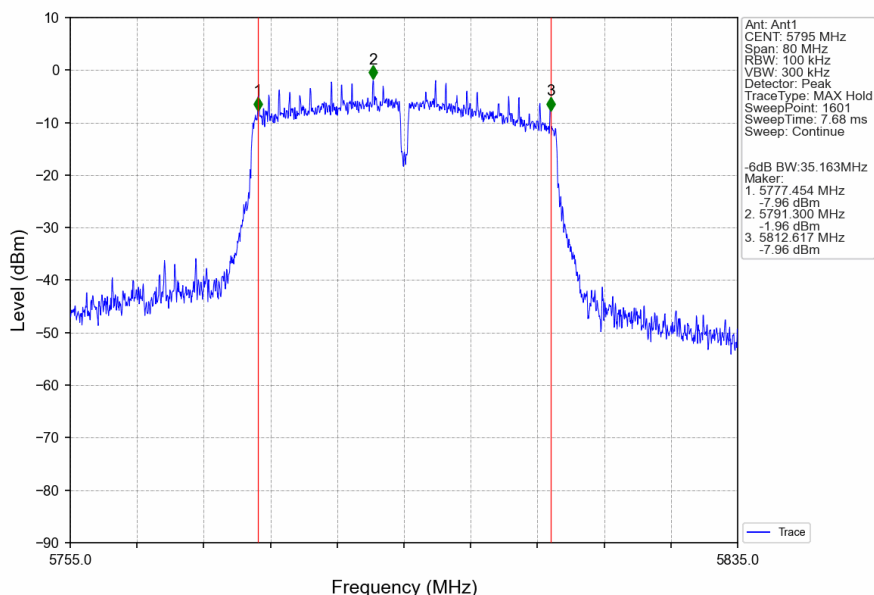
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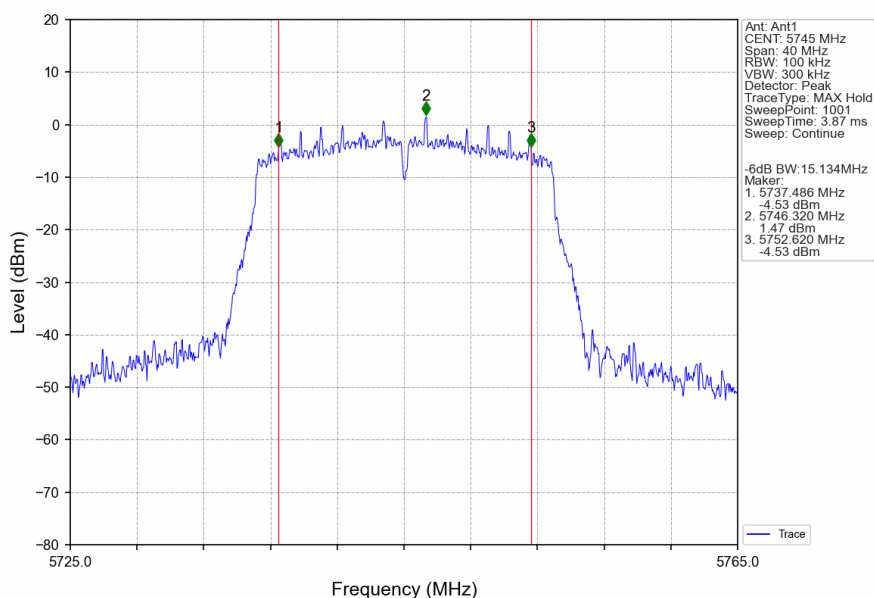
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



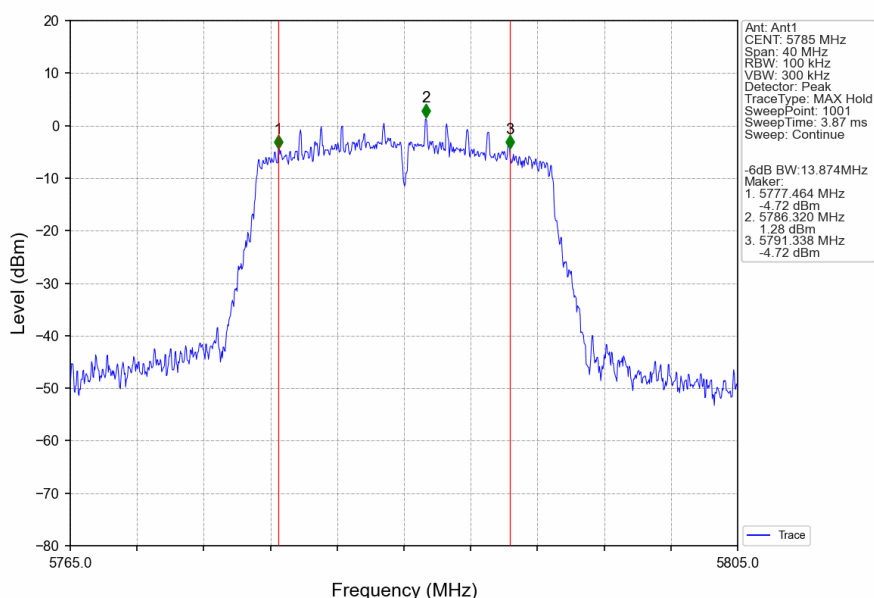
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



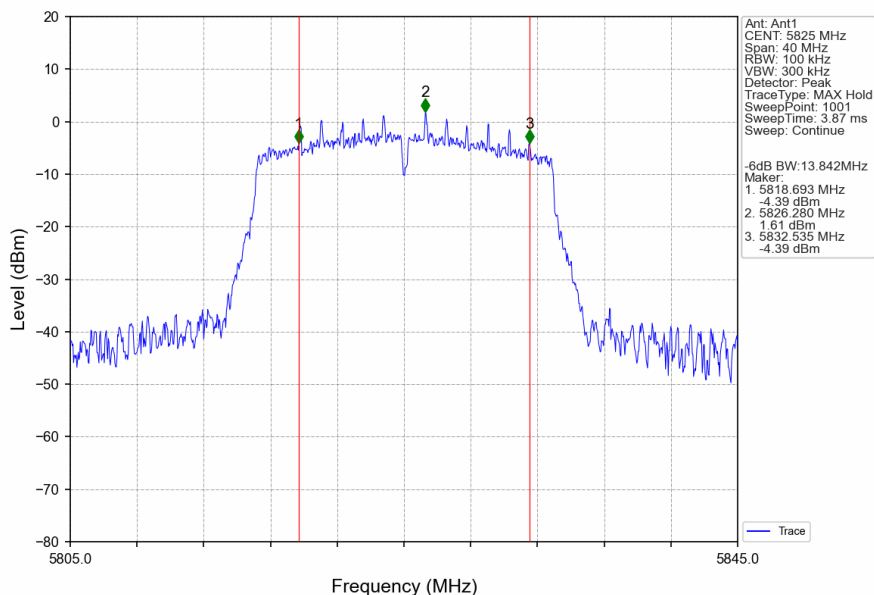
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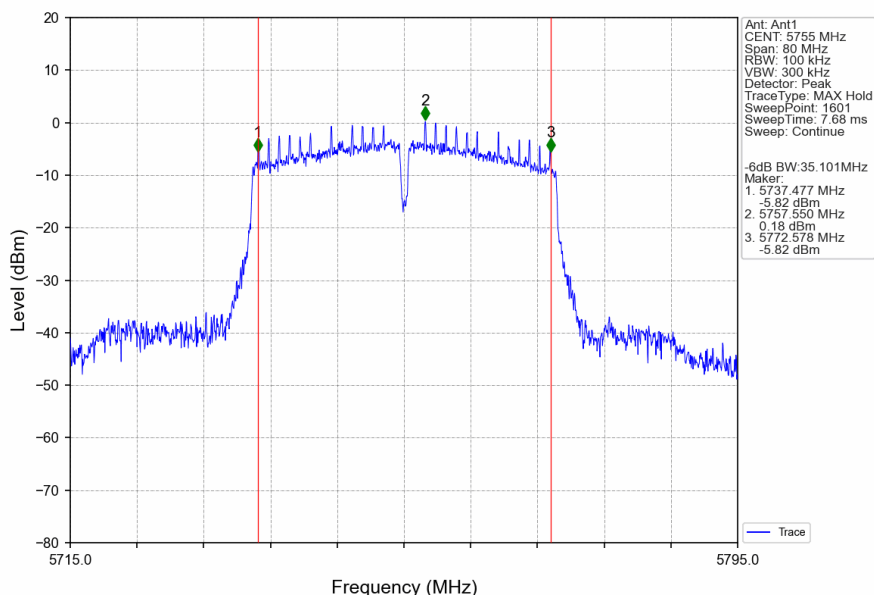
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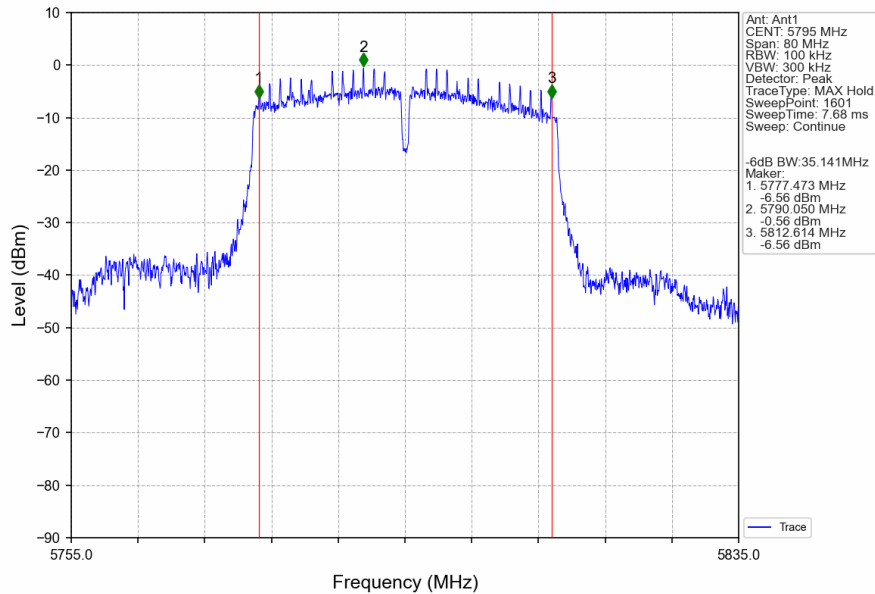
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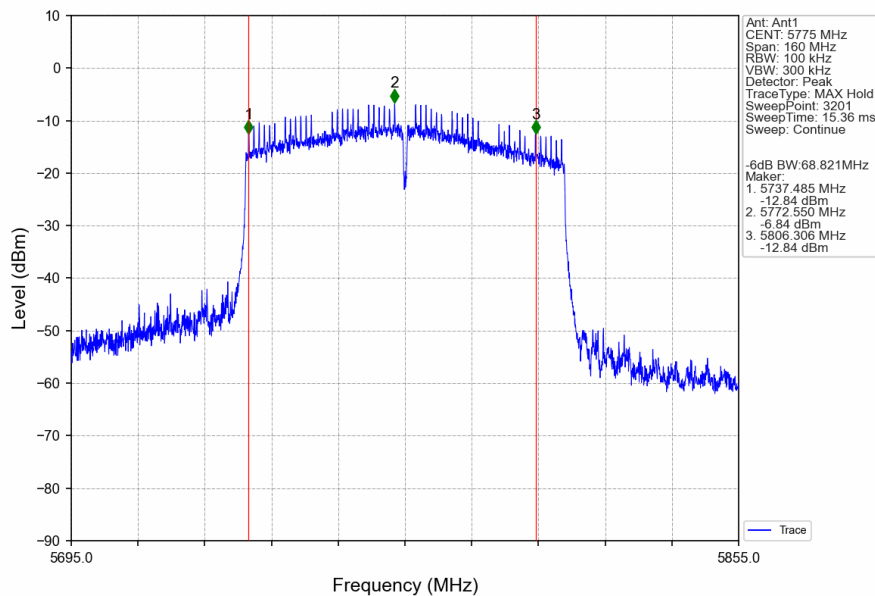
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	11.03	11.02	/	<=30	Pass
		5200	11.00	11.19	/	<=30	Pass
		5240	11.97	11.55	/	<=30	Pass
		5260	11.82	11.60	/	<=23.98	Pass
		5300	10.93	9.99	/	<=23.98	Pass
		5320	12.02	10.81	/	<=23.98	Pass
		5500	11.91	11.50	/	<=23.98	Pass
		5580	11.62	11.81	/	<=23.98	Pass
		5700	11.17	11.93	/	<=23.98	Pass
		5745	11.99	11.97	/	<=30	Pass
		5785	11.50	12.04	/	<=30	Pass
		5825	12.11	12.10	/	<=30	Pass
802.11n (HT20)	MIMO	5180	10.24	10.74	13.51	<=29.99	Pass
		5200	10.50	10.90	13.71	<=29.99	Pass
		5240	10.95	10.56	13.77	<=29.99	Pass
		5260	10.48	10.38	13.44	<=23.97	Pass
		5300	11.17	10.64	13.92	<=23.97	Pass
		5320	11.34	10.69	14.04	<=23.97	Pass
		5500	11.21	11.07	14.15	<=23.97	Pass
		5580	10.98	11.58	14.30	<=23.97	Pass
		5700	10.48	11.53	14.05	<=23.97	Pass
		5745	11.48	11.84	14.67	<=29.99	Pass
		5785	11.16	11.86	14.53	<=29.99	Pass
		5825	13.11	12.13	15.66	<=29.99	Pass
802.11n (HT40)	MIMO	5190	10.81	11.20	14.02	<=29.99	Pass
		5230	11.31	10.87	14.11	<=29.99	Pass
		5270	10.88	10.61	13.76	<=23.97	Pass
		5310	11.69	11.16	14.44	<=23.97	Pass
		5510	11.68	11.58	14.64	<=23.97	Pass
		5550	11.32	11.74	14.55	<=23.97	Pass
		5670	10.61	11.41	14.04	<=23.97	Pass



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		5755	11.84	12.05	14.96	<=29.99	Pass
		5795	11.44	12.18	14.84	<=29.99	Pass
802.11ac (VHT20)	MIMO	5180	10.40	10.32	13.37	<=29.99	Pass
		5200	10.50	10.54	13.53	<=29.99	Pass
		5240	11.30	10.52	13.94	<=29.99	Pass
		5260	10.65	10.20	13.44	<=23.97	Pass
		5300	10.96	10.00	13.52	<=23.97	Pass
		5320	11.23	10.28	13.79	<=23.97	Pass
		5500	11.19	10.72	13.97	<=23.97	Pass
		5580	10.92	11.15	14.05	<=23.97	Pass
		5700	10.39	11.20	13.82	<=23.97	Pass
		5745	11.42	11.29	14.37	<=29.99	Pass
		5785	11.17	11.51	14.35	<=29.99	Pass
		5825	11.56	11.75	14.67	<=29.99	Pass
802.11ac (VHT40)	MIMO	5190	10.81	10.98	13.91	<=29.99	Pass
		5230	11.36	10.82	14.11	<=29.99	Pass
		5270	10.86	10.59	13.74	<=23.97	Pass
		5310	11.61	10.97	14.31	<=23.97	Pass
		5510	11.61	11.44	14.54	<=23.97	Pass
		5550	11.29	11.64	14.48	<=23.97	Pass
		5670	10.48	11.18	13.85	<=23.97	Pass
		5755	11.83	11.86	14.86	<=29.99	Pass
802.11ac (VHT80)	MIMO	5795	11.27	11.93	14.62	<=29.99	Pass
		5210	8.42	7.62	11.05	<=29.99	Pass
		5290	9.49	8.75	12.15	<=23.97	Pass
		5530	8.72	8.90	11.82	<=23.97	Pass
		5610	8.22	8.81	11.54	<=23.97	Pass
		5775	8.93	9.19	12.07	<=29.99	Pass

Note1: Antenna Gain:

- Band: 1 Ant1: 3.0dBi;
- Band: 3 Ant1: 3.0dBi;
- Band: 2A Ant1: 3.0dBi;
- Band: 2C Ant1: 3.0dBi;
- Band: 1 Ant2: 3.0dBi;
- Band: 3 Ant2: 3.0dBi;
- Band: 2A Ant2: 3.0dBi;
- Band: 2C Ant2: 3.0dBi;

Note2: Directional Gain: 6.01dBi



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	0.80	0.74	/	<=17	Pass
		5200	0.63	0.98	/	<=17	Pass
		5240	1.58	1.25	/	<=17	Pass
		5260	1.51	1.42	/	<=11	Pass
		5300	0.62	-0.28	/	<=11	Pass
		5320	1.88	0.54	/	<=11	Pass
		5500	1.66	1.14	/	<=11	Pass
		5580	1.43	1.49	/	<=11	Pass
		5700	0.92	1.61	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-0.20	0.38	3.05	<=16.99	Pass
		5200	-0.09	0.65	3.21	<=16.99	Pass
		5240	0.57	0.31	3.36	<=16.99	Pass
		5260	-0.10	0.21	2.94	<=10.99	Pass
		5300	0.69	0.37	3.52	<=10.99	Pass
		5320	0.87	0.57	3.66	<=10.99	Pass
		5500	0.84	0.76	3.67	<=10.99	Pass
		5580	0.47	1.20	3.76	<=10.99	Pass
		5700	-0.06	1.44	3.66	<=10.99	Pass
802.11n (HT40)	MIMO	5190	-2.54	-2.17	0.58	<=16.99	Pass
		5230	-1.97	-2.49	0.72	<=16.99	Pass
		5270	-2.33	-2.79	0.41	<=10.99	Pass
		5310	-1.53	-2.17	1.07	<=10.99	Pass
		5510	-1.60	-1.64	1.22	<=10.99	Pass
		5550	-1.91	-1.42	1.22	<=10.99	Pass
		5670	-2.64	-2.10	0.48	<=10.99	Pass
802.11ac (VHT20)	MIMO	5180	-0.07	-0.07	2.80	<=16.99	Pass
		5200	0.07	0.04	3.06	<=16.99	Pass
		5240	0.79	0.02	3.36	<=16.99	Pass
		5260	0.23	-0.36	2.90	<=10.99	Pass
		5300	0.65	-0.39	3.04	<=10.99	Pass
		5320	0.81	-0.06	3.31	<=10.99	Pass



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		5500	0.71	0.33	3.42	<=10.99	Pass
		5580	0.47	0.77	3.51	<=10.99	Pass
		5700	-0.13	0.86	3.35	<=10.99	Pass
802.11ac (VHT40)	MIMO	5190	-2.51	-2.43	0.48	<=16.99	Pass
		5230	-2.04	-2.49	0.68	<=16.99	Pass
		5270	-2.50	-2.58	0.36	<=10.99	Pass
		5310	-1.37	-2.32	1.03	<=10.99	Pass
		5510	-1.73	-1.89	1.09	<=10.99	Pass
		5550	-2.00	-1.75	1.07	<=10.99	Pass
		5670	-2.75	-2.16	0.53	<=10.99	Pass
802.11ac (VHT80)	MIMO	5210	-7.72	-8.29	-5.11	<=16.99	Pass
		5290	-6.72	-7.28	-4.01	<=10.99	Pass
		5530	-7.47	-7.23	-4.45	<=10.99	Pass
		5610	-7.61	-7.18	-4.69	<=10.99	Pass

Note1: Antenna Gain:

- Band: 1 Ant1: 3.0dBi;
- Band: 3 Ant1: 3.0dBi;
- Band: 2A Ant1: 3.0dBi;
- Band: 2C Ant1: 3.0dBi;
- Band: 1 Ant2: 3.0dBi;
- Band: 3 Ant2: 3.0dBi;
- Band: 2A Ant2: 3.0dBi;
- Band: 2C Ant2: 3.0dBi;

Note2: Directional Gain: 6.01dBi



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4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	-0.85	-0.88	/	<=30	Pass
		5785	-1.34	-0.85	/	<=30	Pass
		5825	-0.60	-0.87	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-1.57	-0.81	1.77	<=29.99	Pass
		5785	-1.92	-0.83	1.63	<=29.99	Pass
		5825	-0.02	-0.59	2.65	<=29.99	Pass
802.11n (HT40)	MIMO	5755	-4.00	-4.24	-1.38	<=29.99	Pass
		5795	-4.46	-3.77	-1.13	<=29.99	Pass
802.11ac (VHT20)	MIMO	5745	-1.58	-1.79	1.19	<=29.99	Pass
		5785	-1.73	-1.55	1.29	<=29.99	Pass
		5825	-1.46	-0.98	1.74	<=29.99	Pass
802.11ac (VHT40)	MIMO	5755	-4.08	-3.95	-1.08	<=29.99	Pass
		5795	-4.73	-3.75	-1.29	<=29.99	Pass
802.11ac (VHT80)	MIMO	5775	-9.46	-9.08	-6.42	<=29.99	Pass

Note1: Antenna Gain:

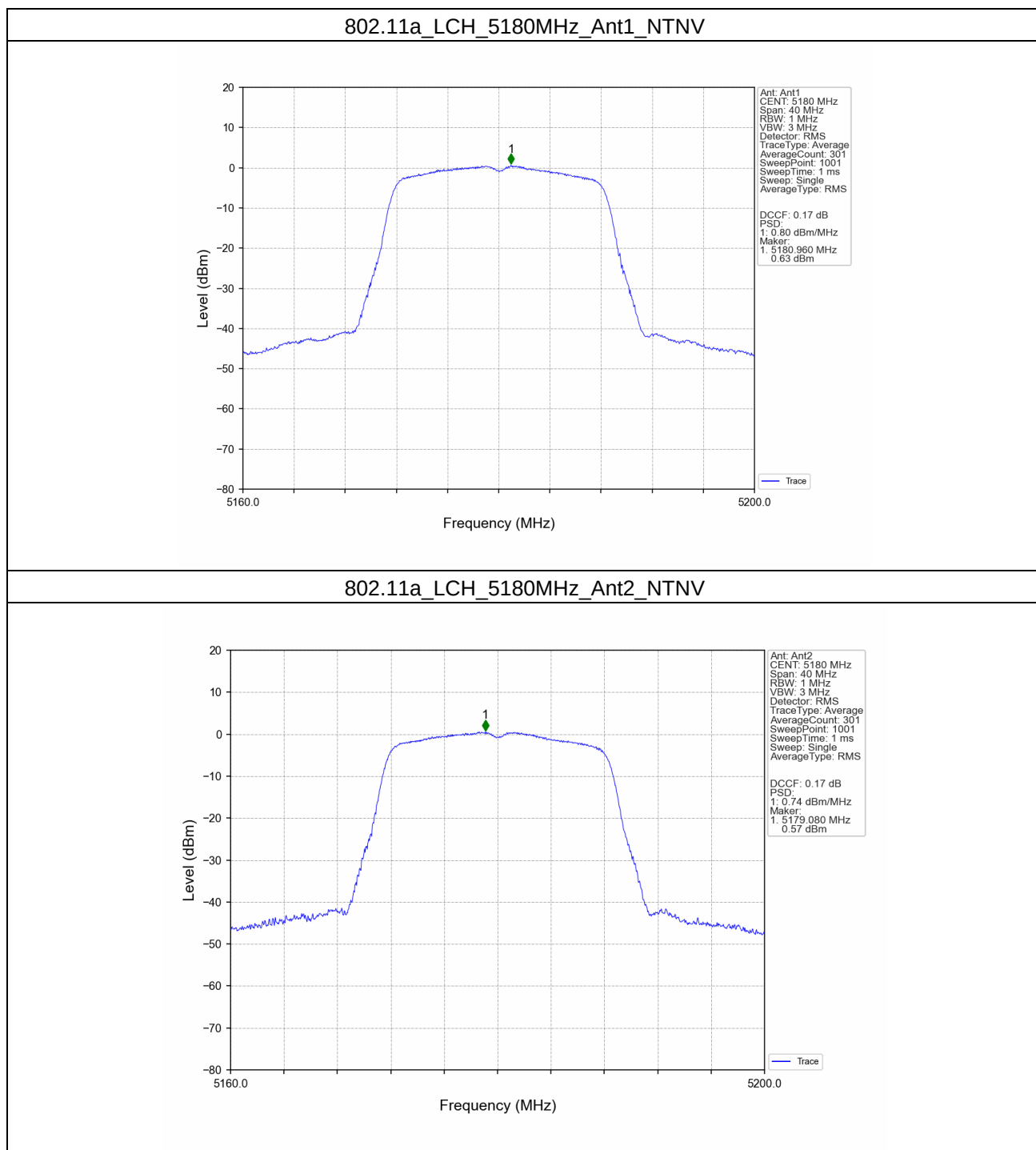
- Band: 1 Ant1: 3.0dBi;
- Band: 3 Ant1: 3.0dBi;
- Band: 2A Ant1: 3.0dBi;
- Band: 2C Ant1: 3.0dBi;
- Band: 1 Ant2: 3.0dBi;
- Band: 3 Ant2: 3.0dBi;
- Band: 2A Ant2: 3.0dBi;
- Band: 2C Ant2: 3.0dBi;

Note2: Directional Gain: 6.01dBi

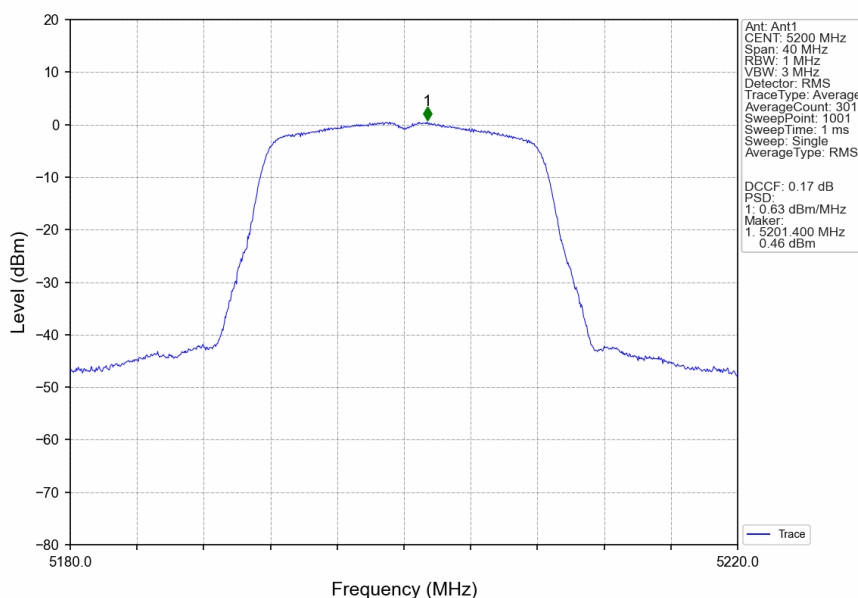


4.2 Test Graph

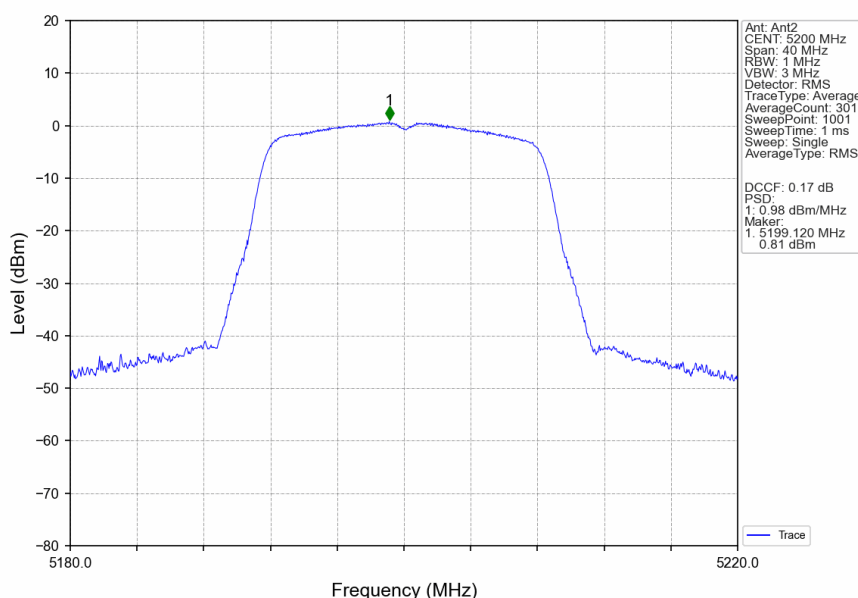
4.2.1 PSD



802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



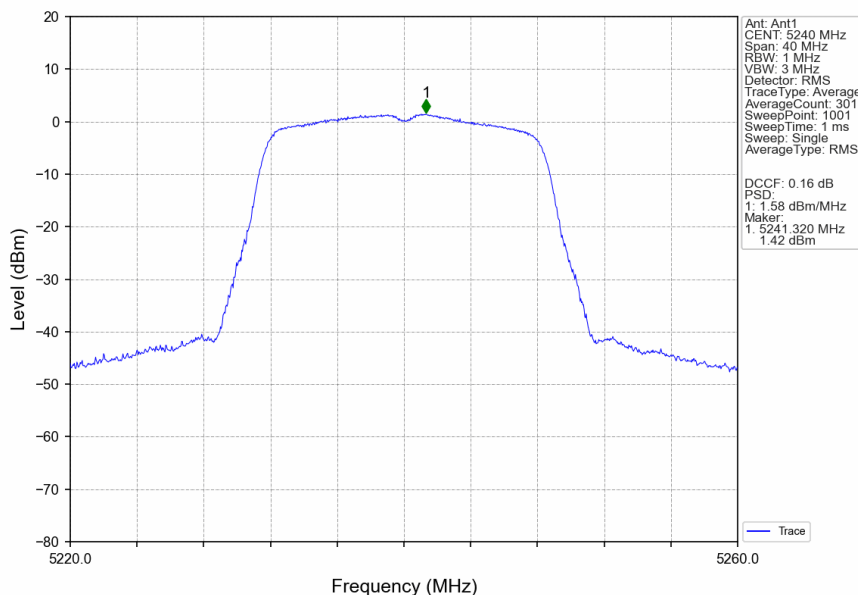
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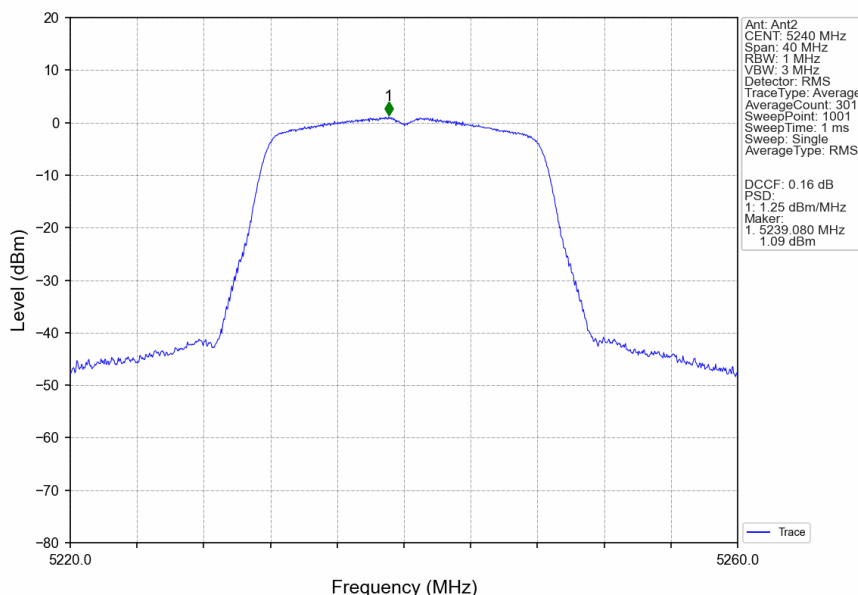
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802.11a_HCH_5240MHz_Ant1_NTNV



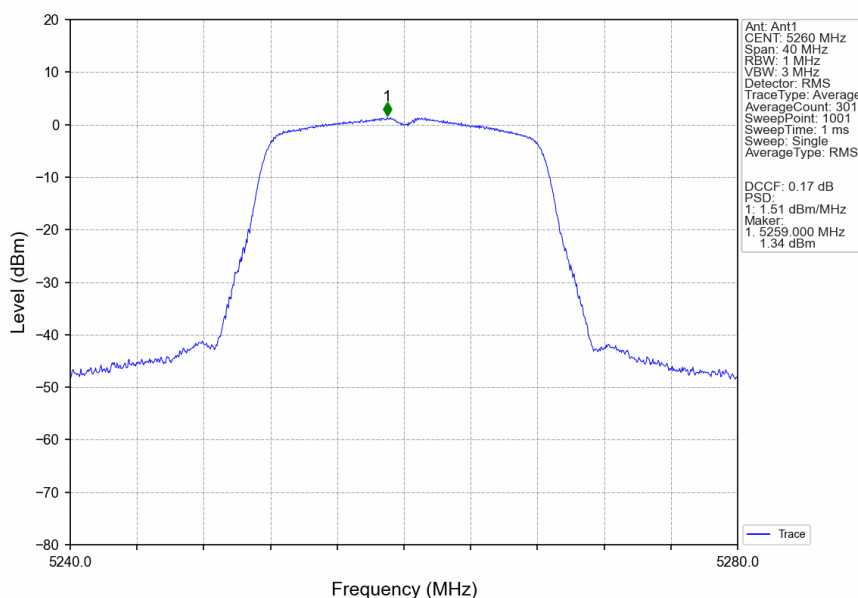
802.11a_HCH_5240MHz_Ant2_NTNV



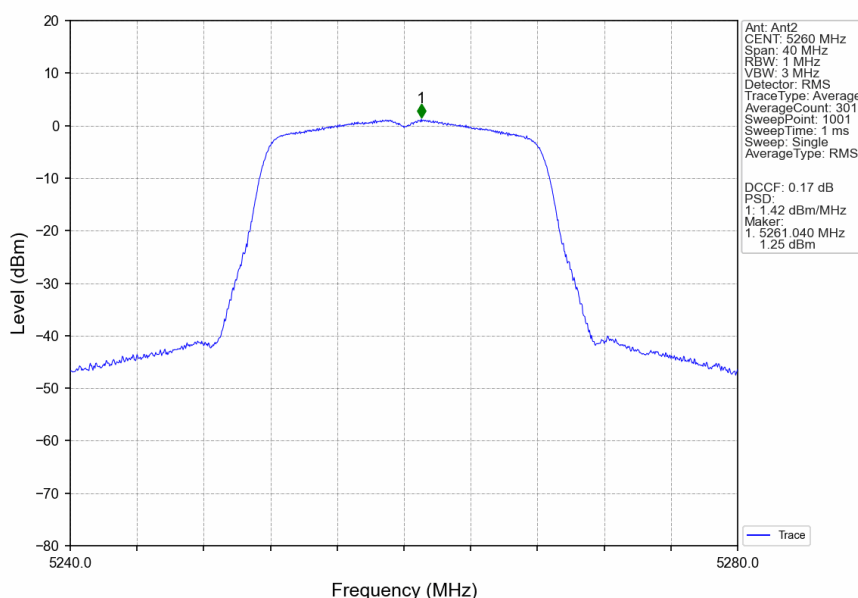
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802.11a_LCH_5260MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant2_NTNV



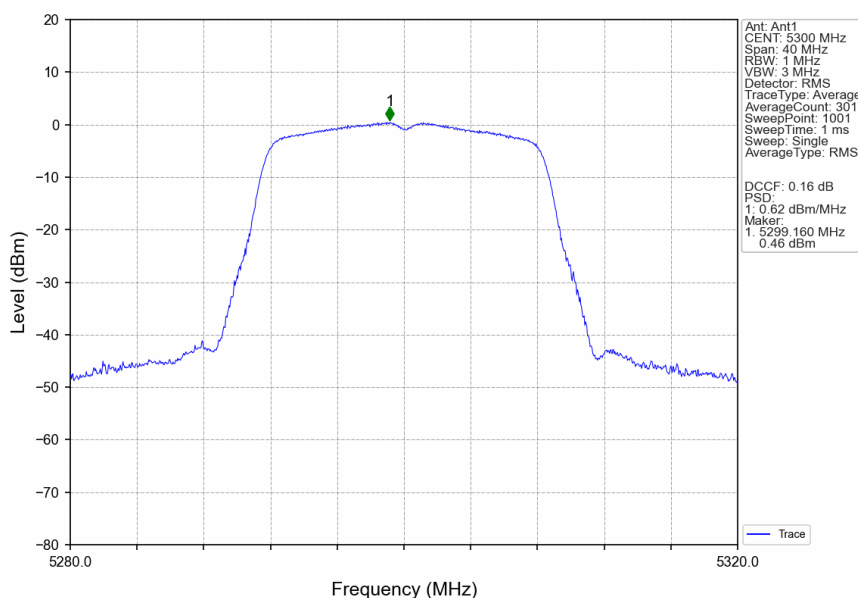
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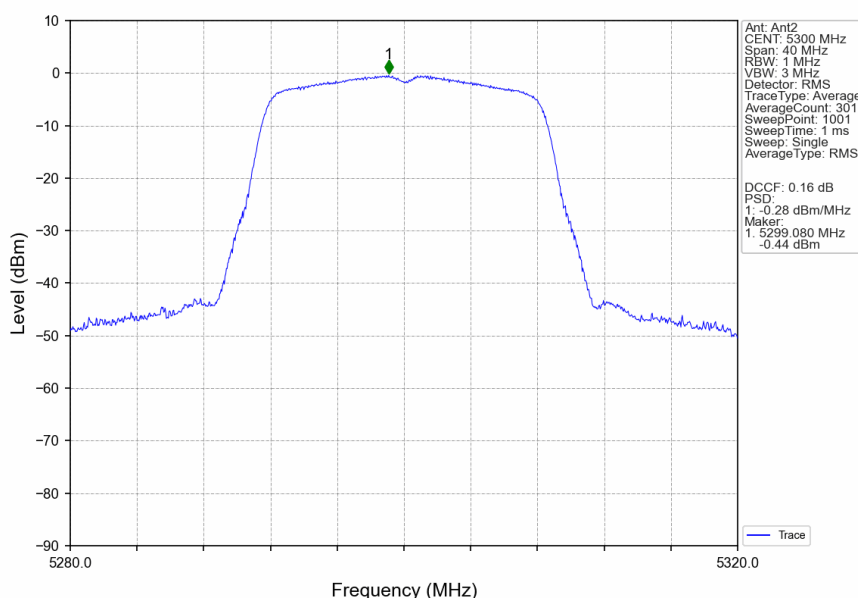
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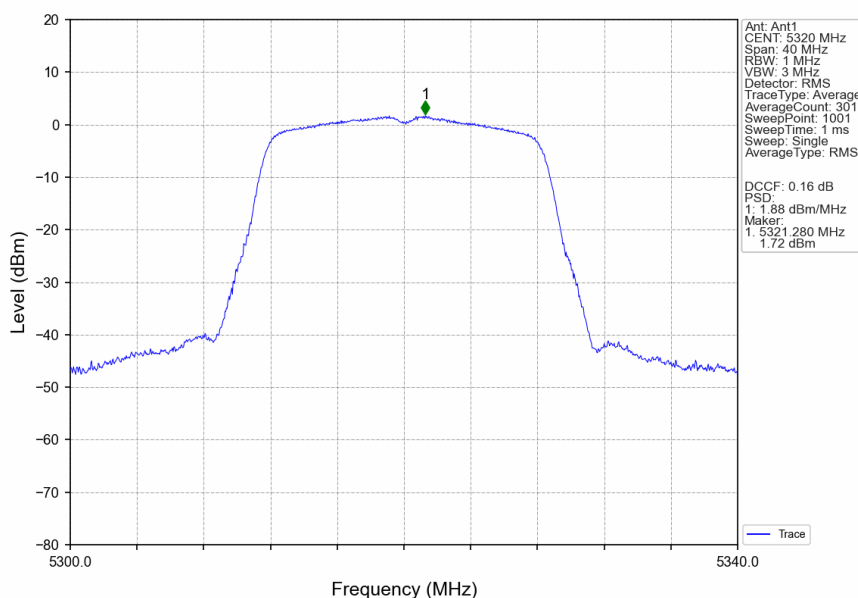
802.11a_MCH_5300MHz_Ant1_NTNV



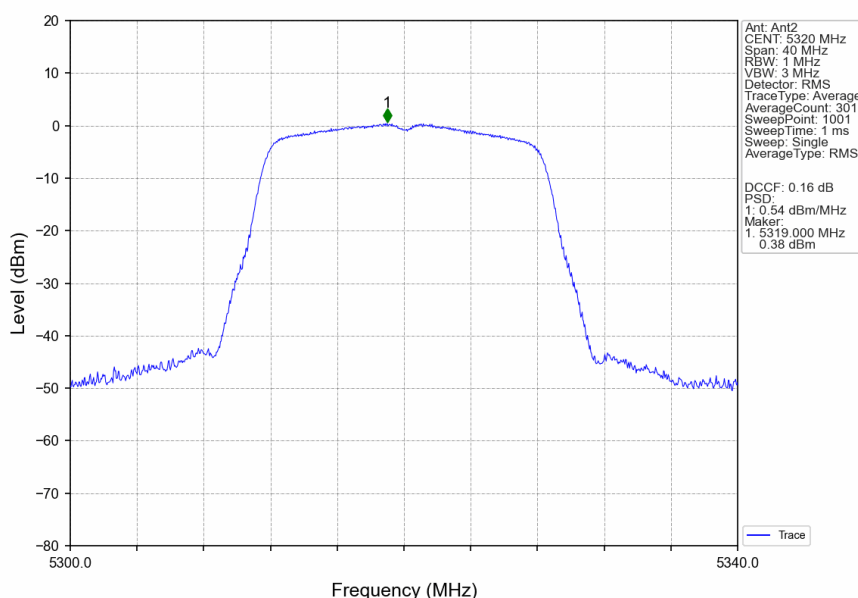
802.11a_MCH_5300MHz_Ant2_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant2_NTNV



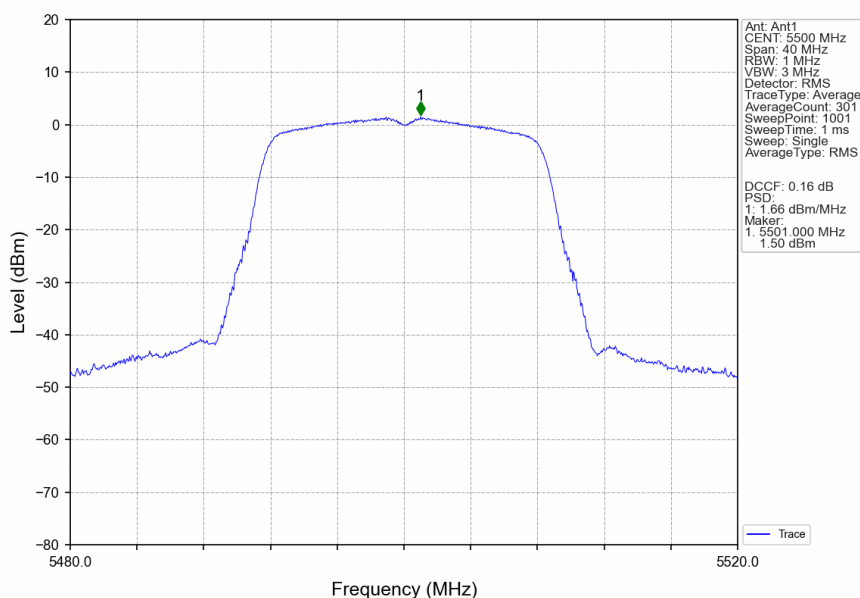
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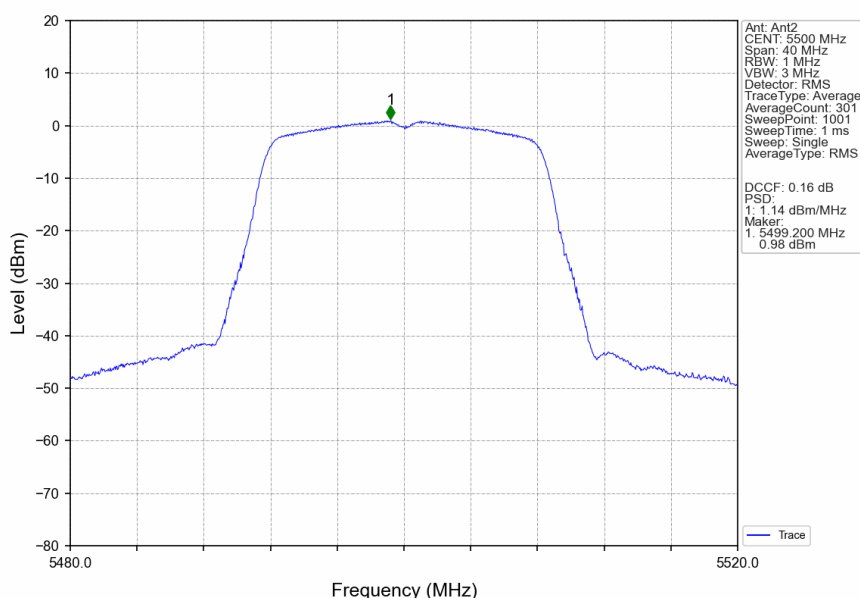
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant2_NTNV



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