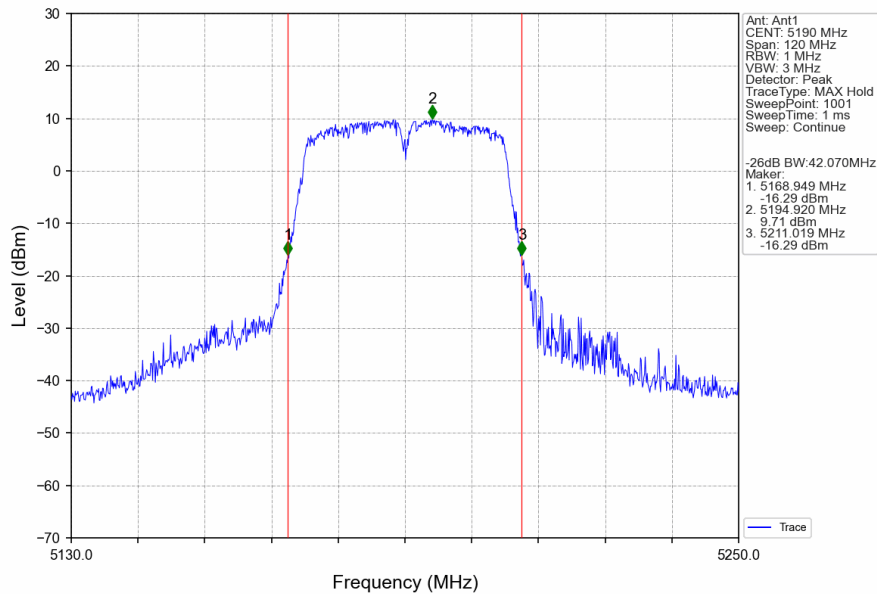
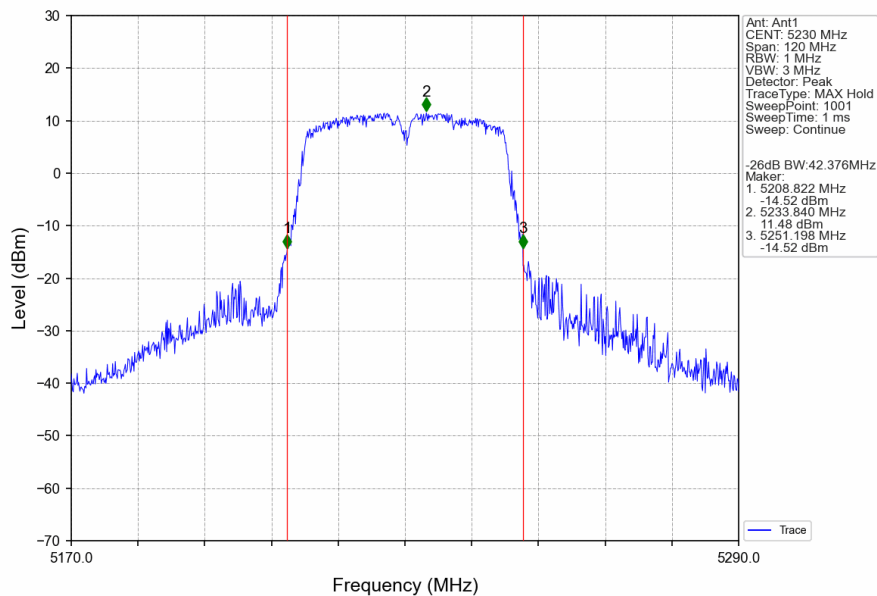


802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



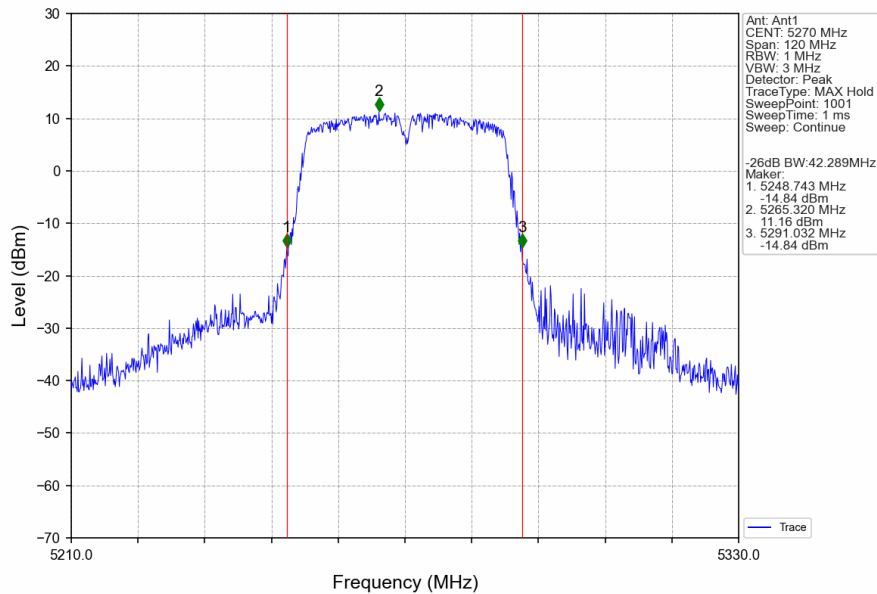
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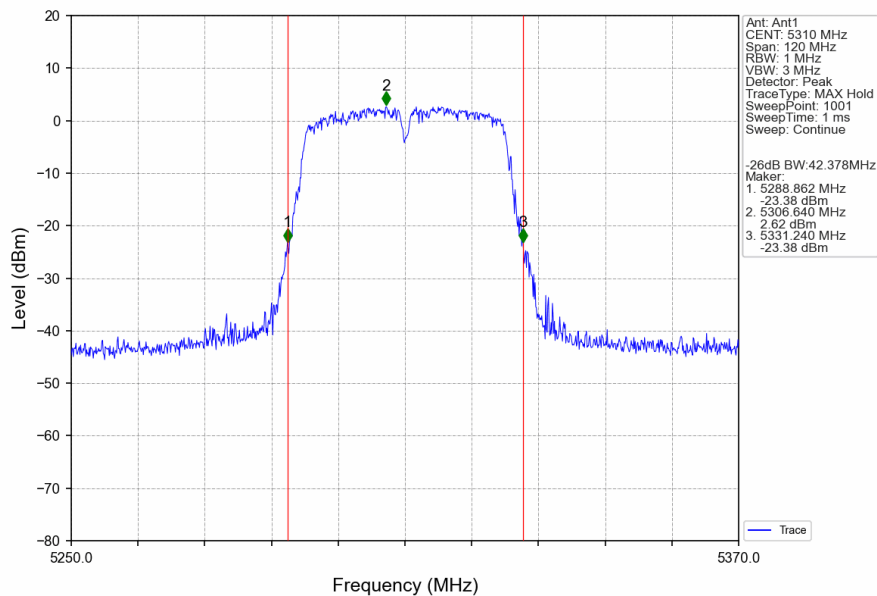
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Shenzhen Branch Testing & Calibration Laboratory

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

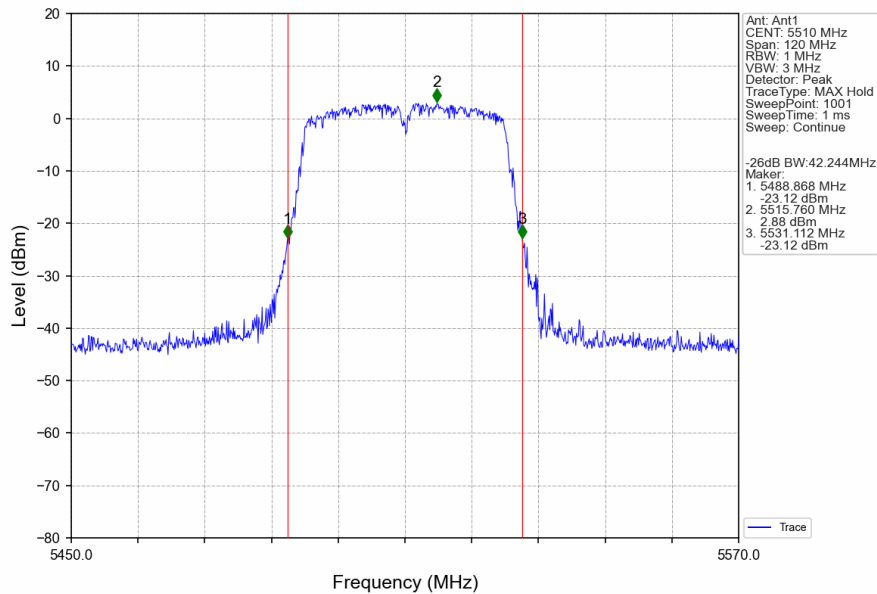
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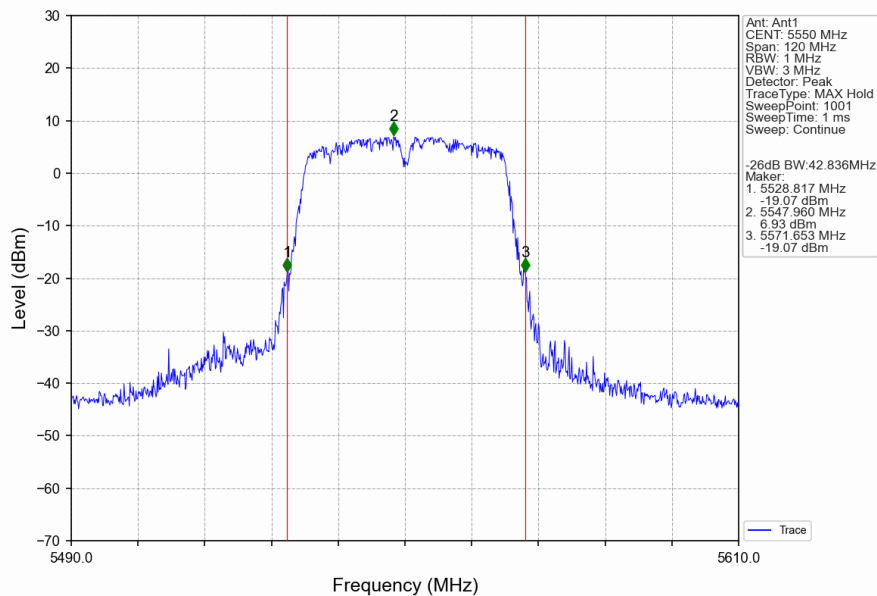
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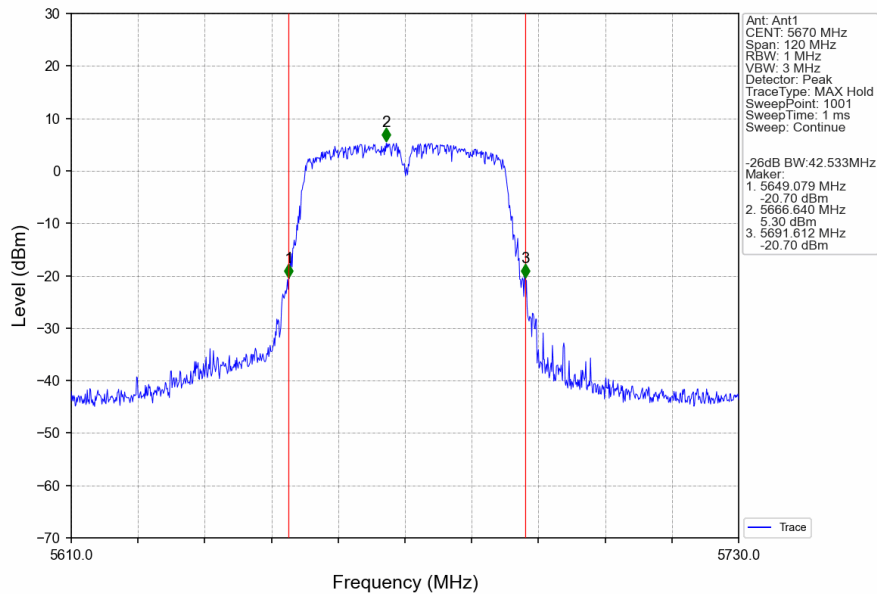
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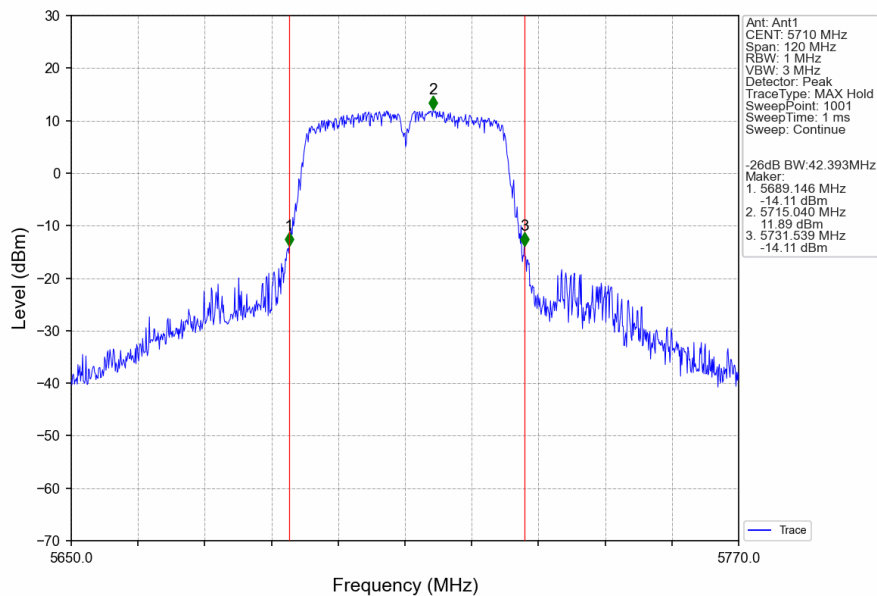
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



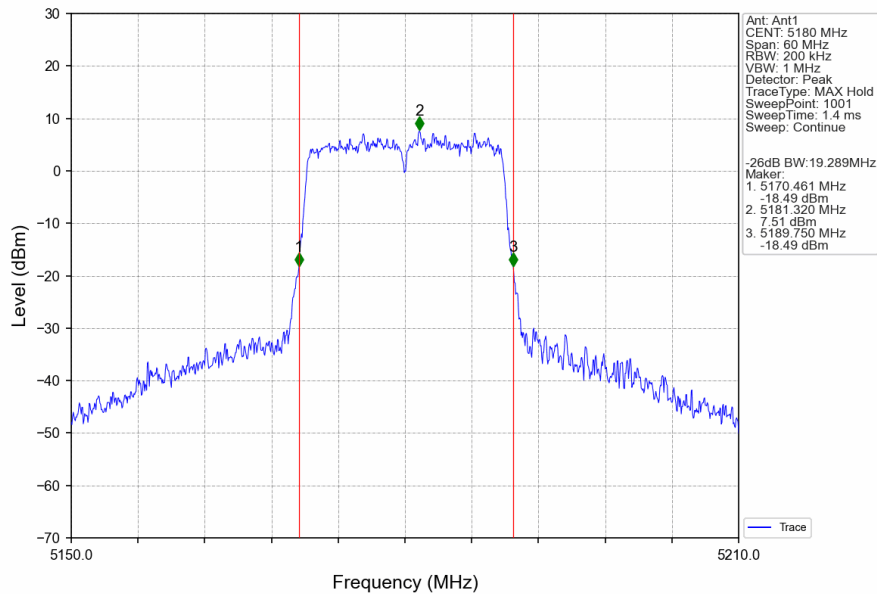
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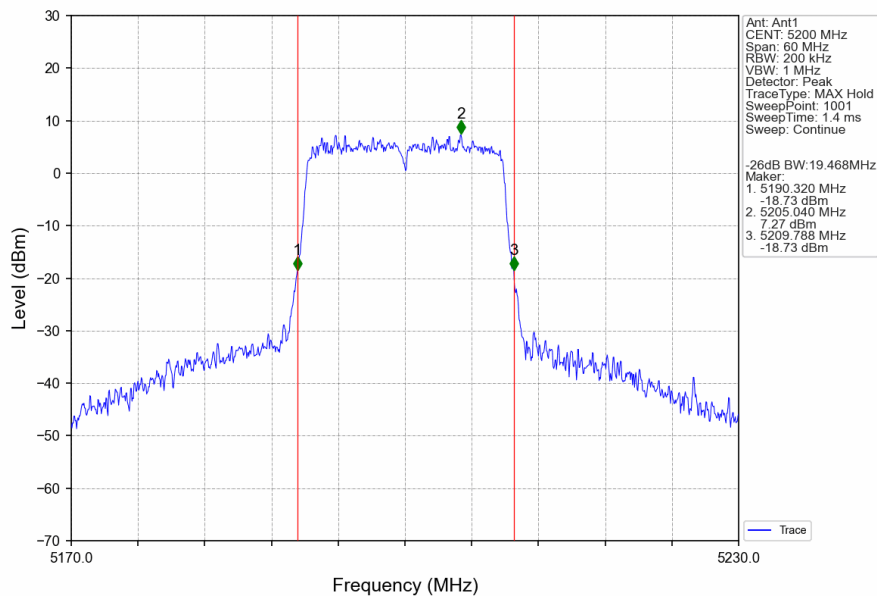
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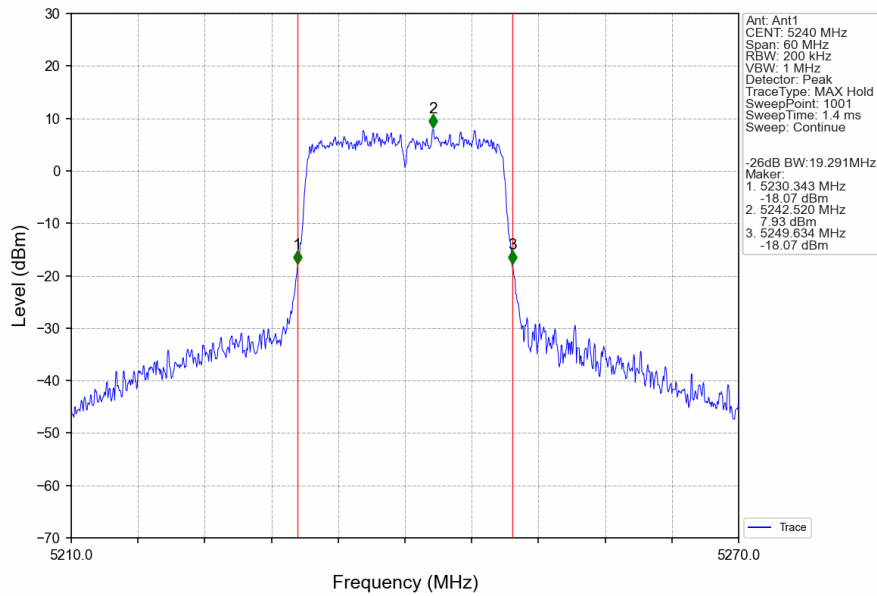
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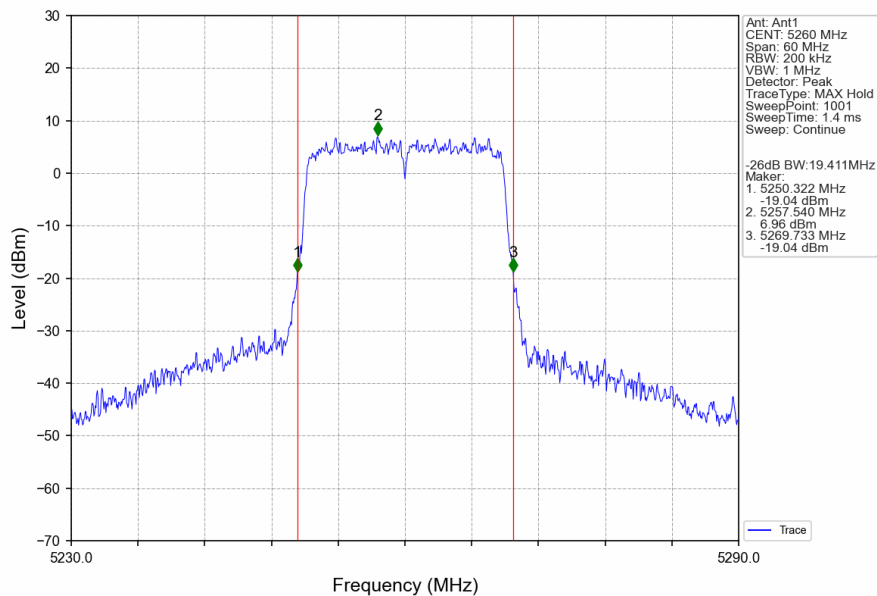
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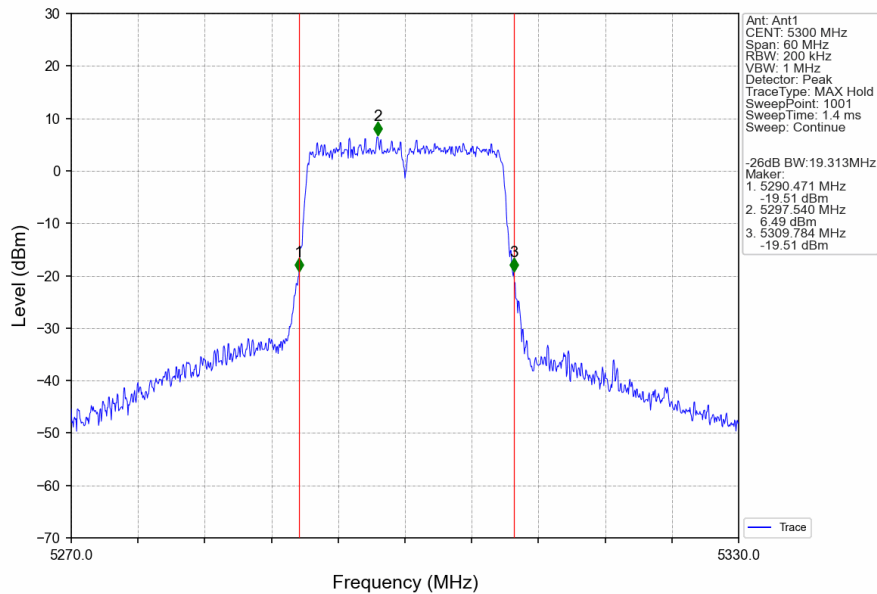
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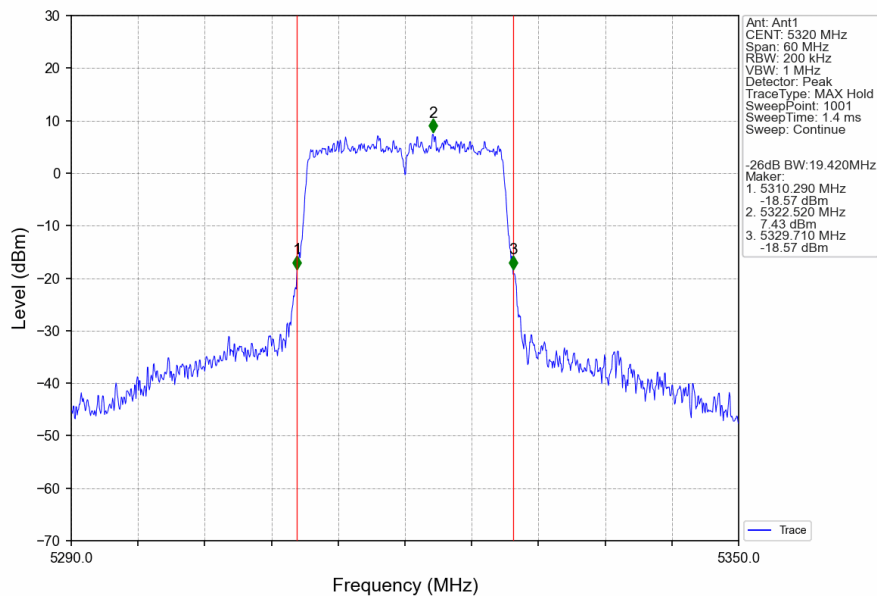
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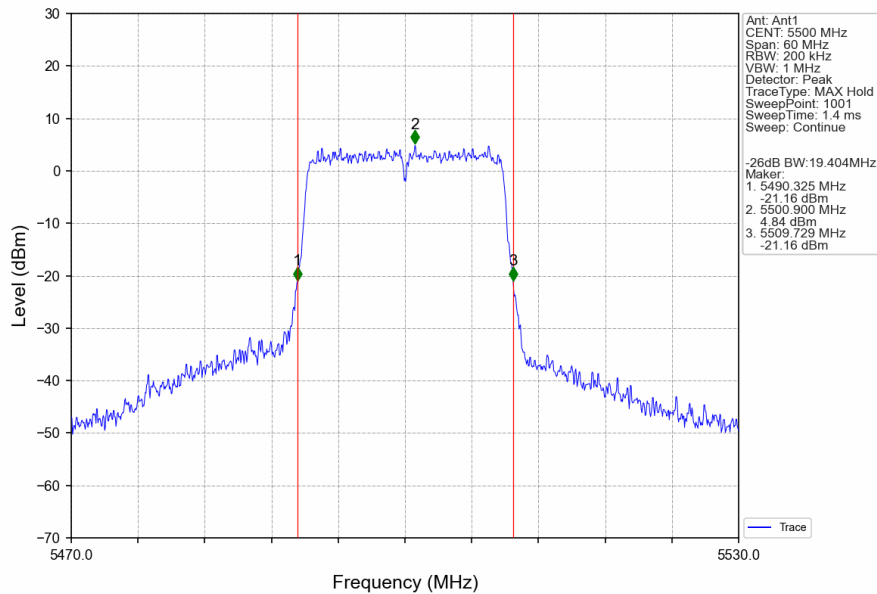
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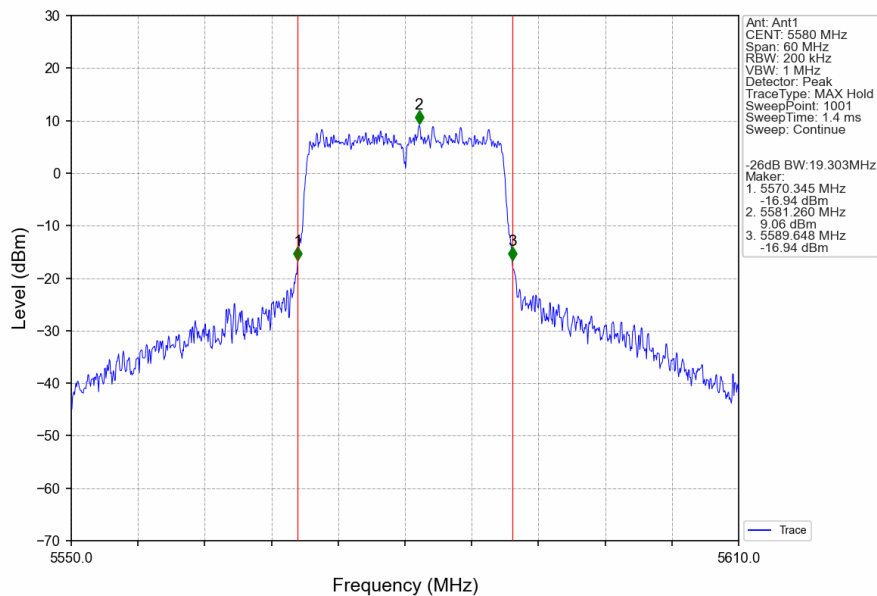
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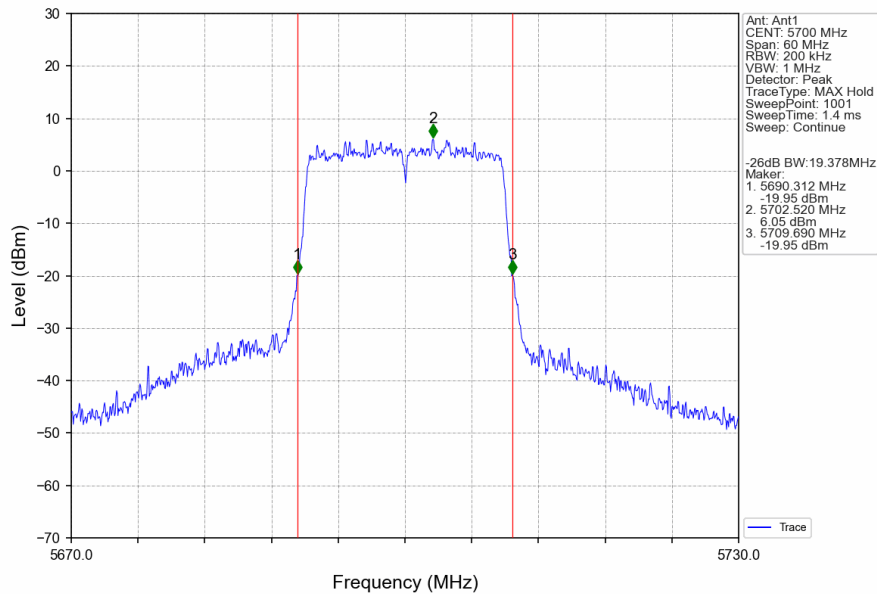
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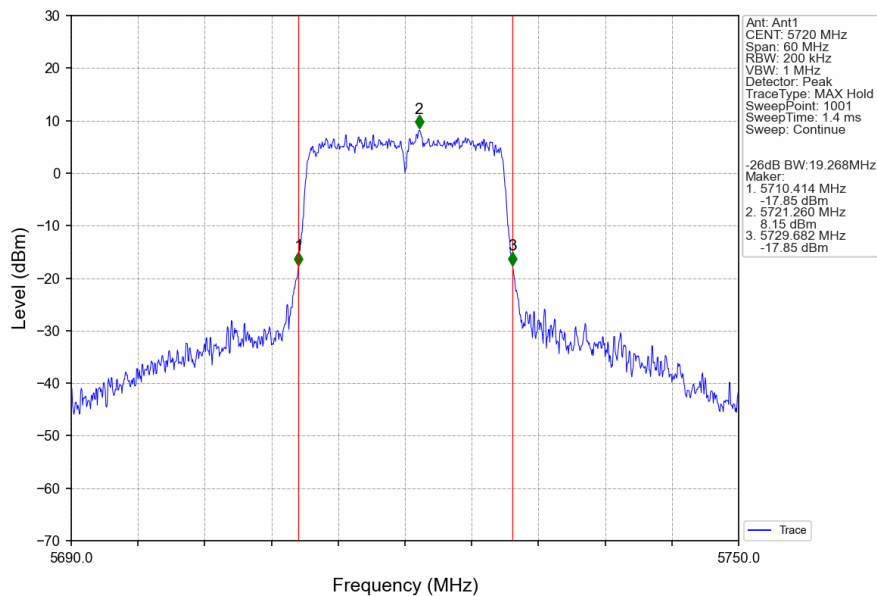
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



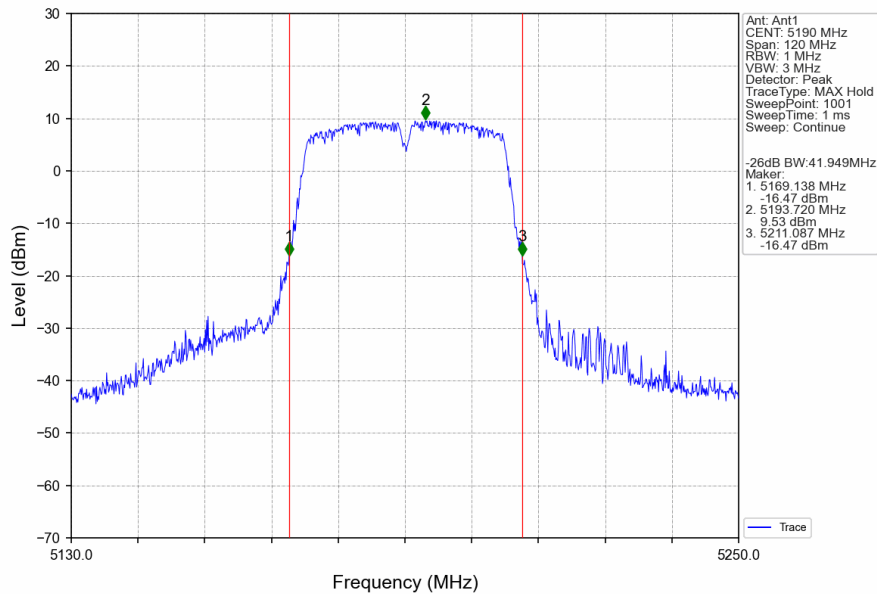
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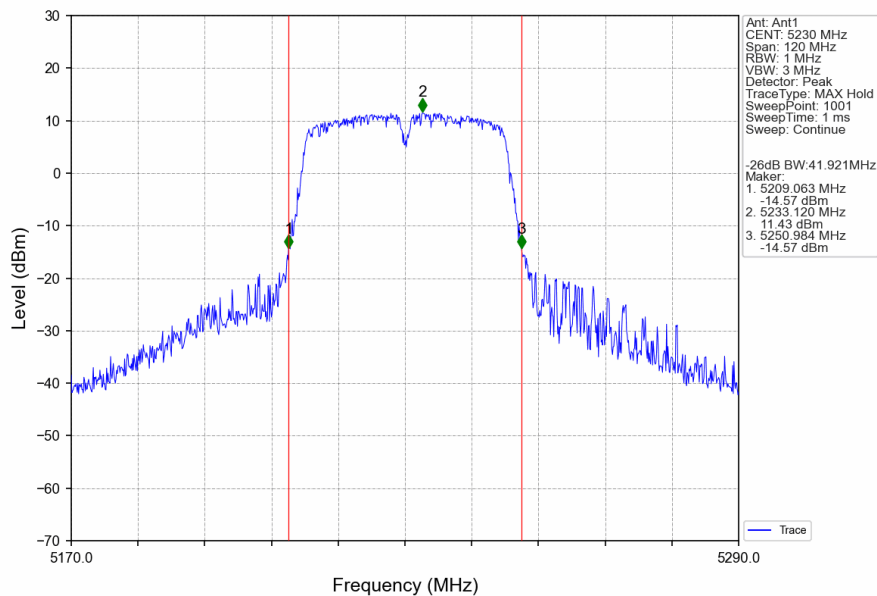
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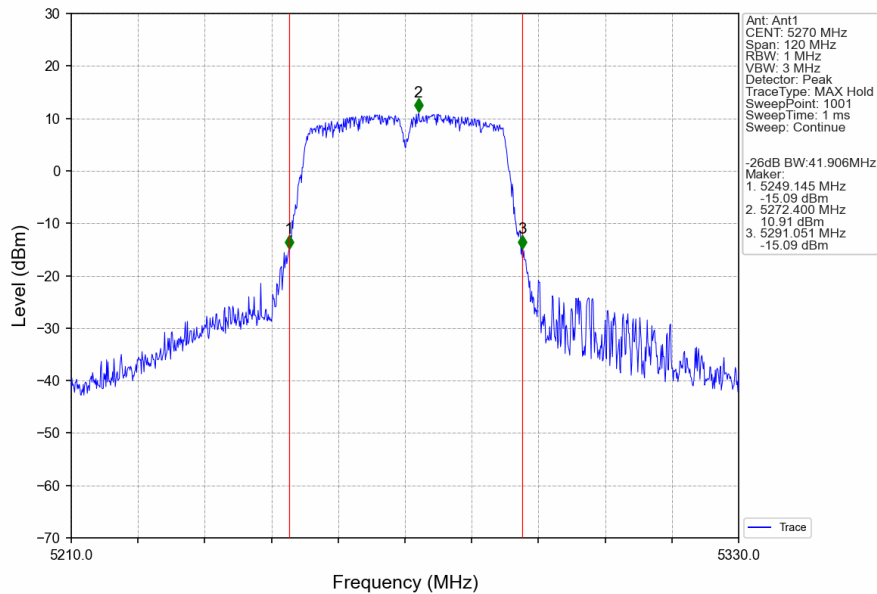
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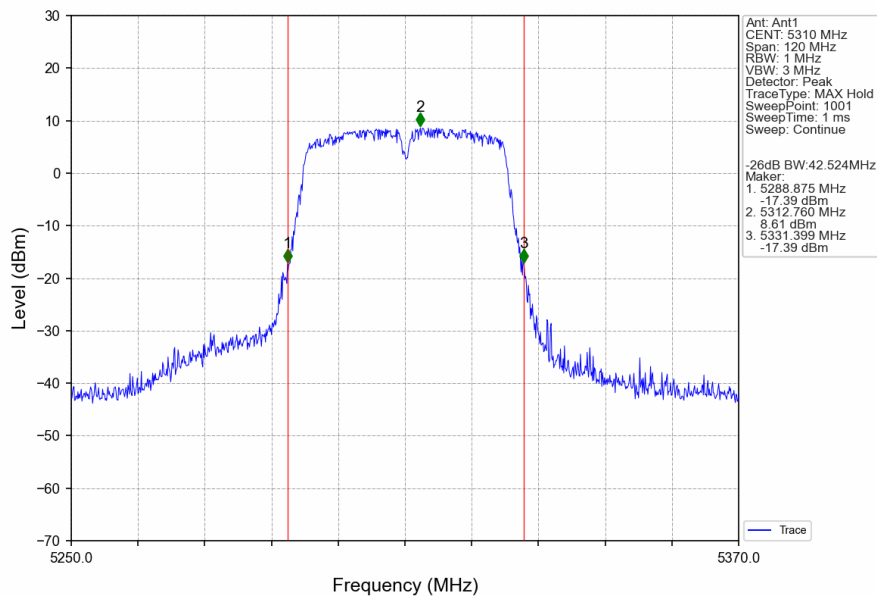
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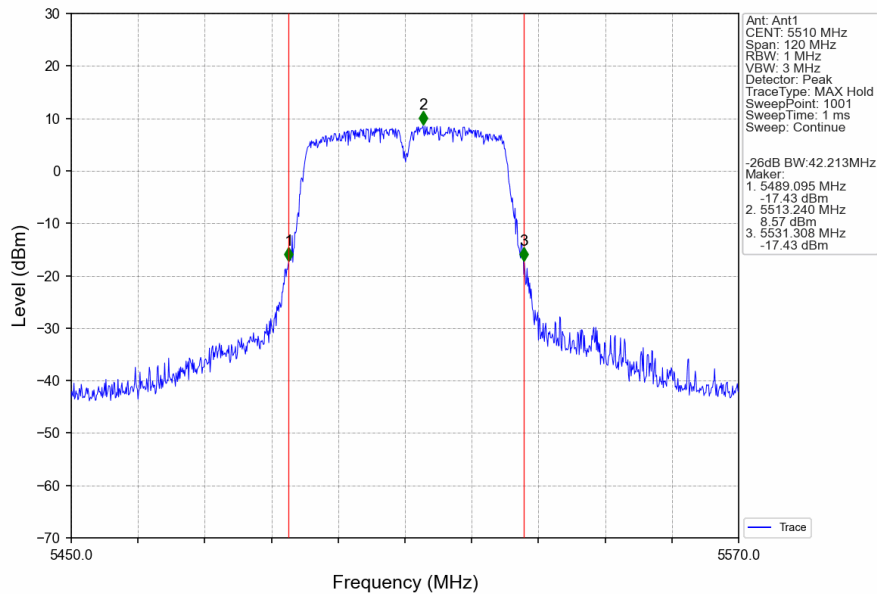
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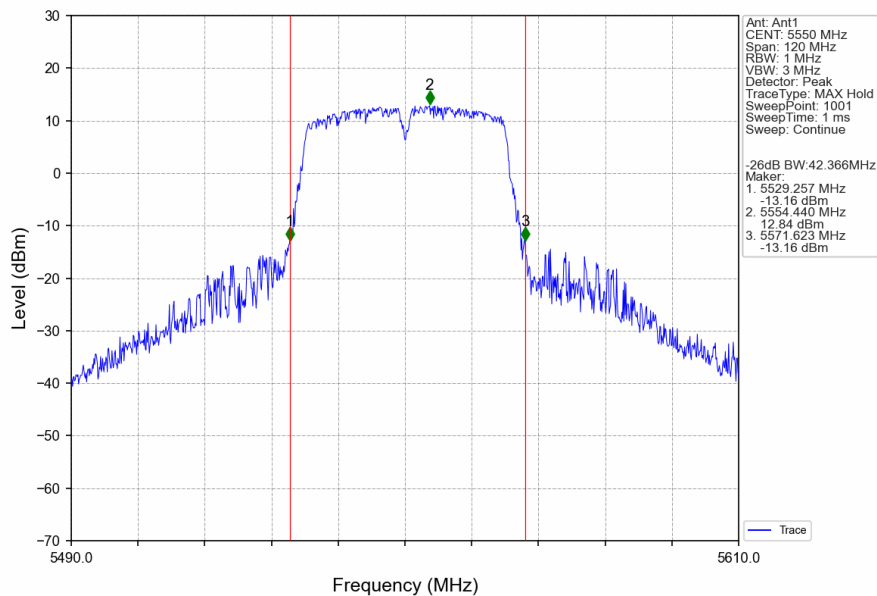
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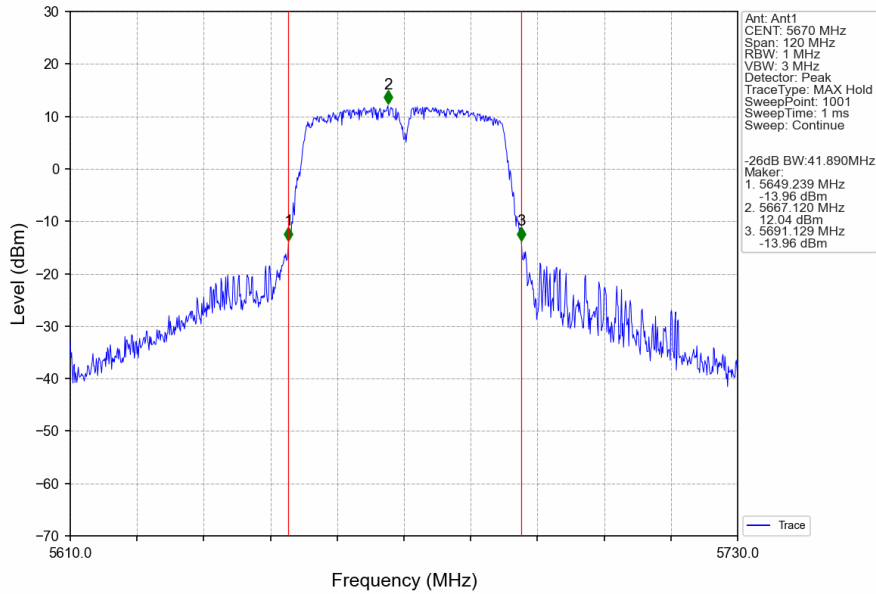
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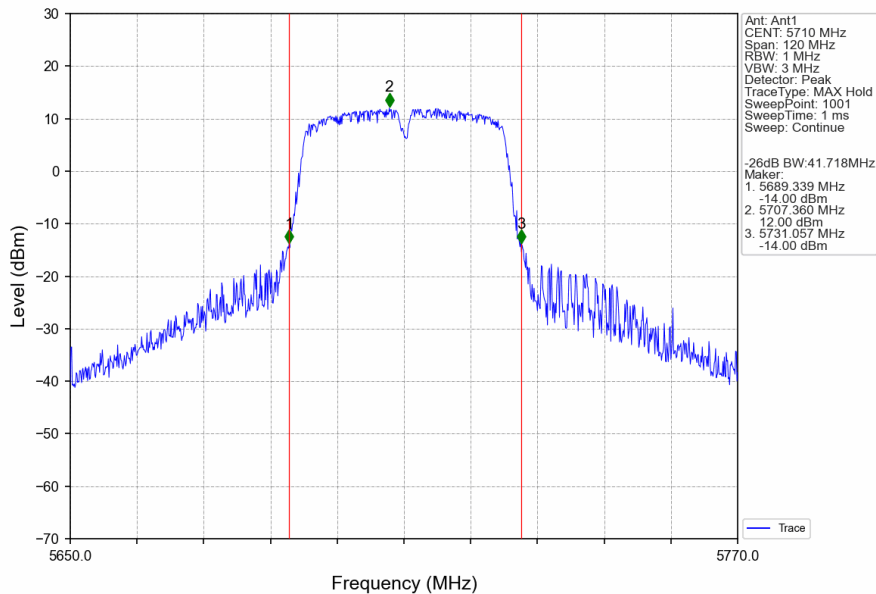
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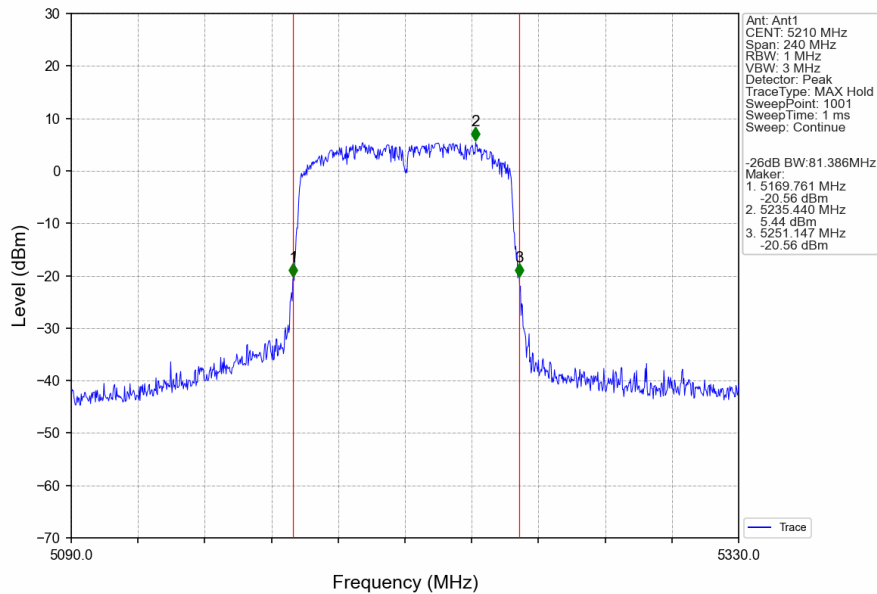
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



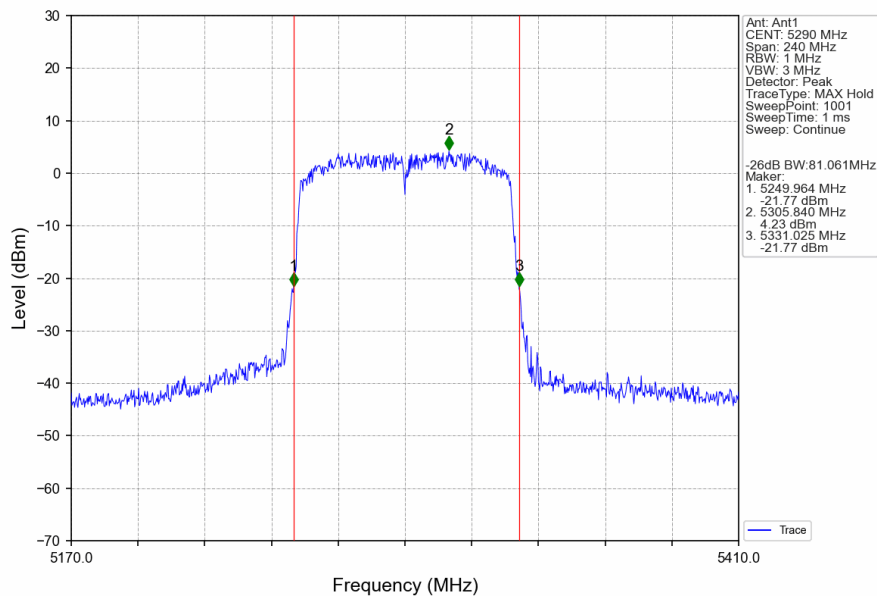
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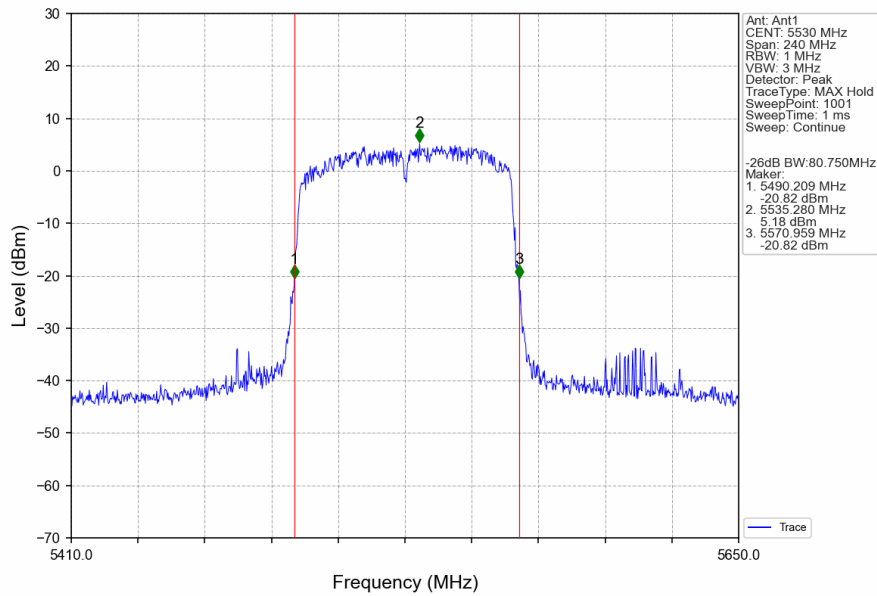
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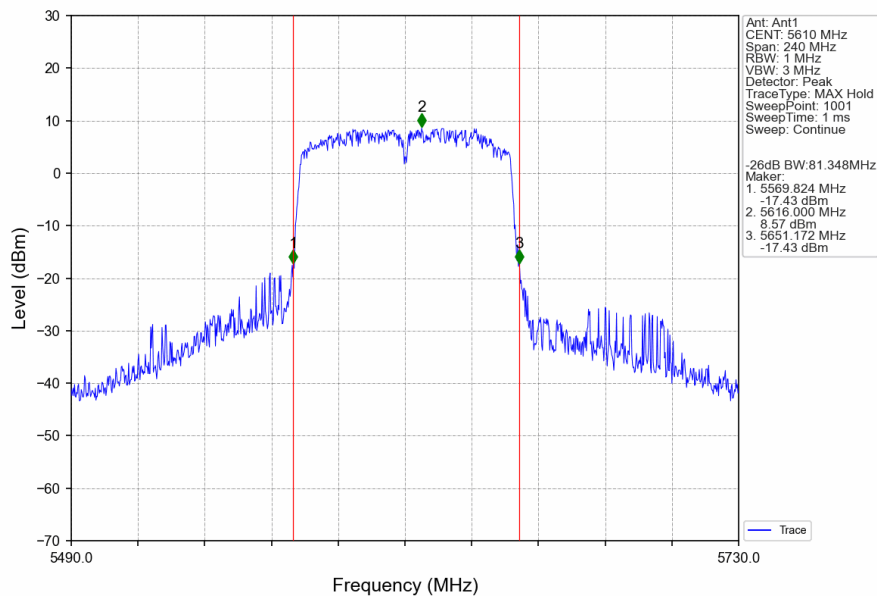
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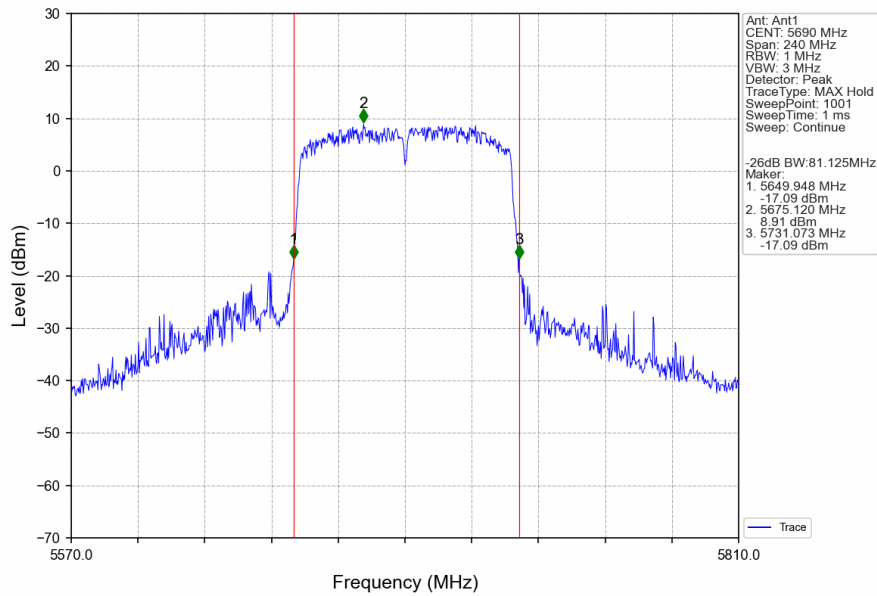
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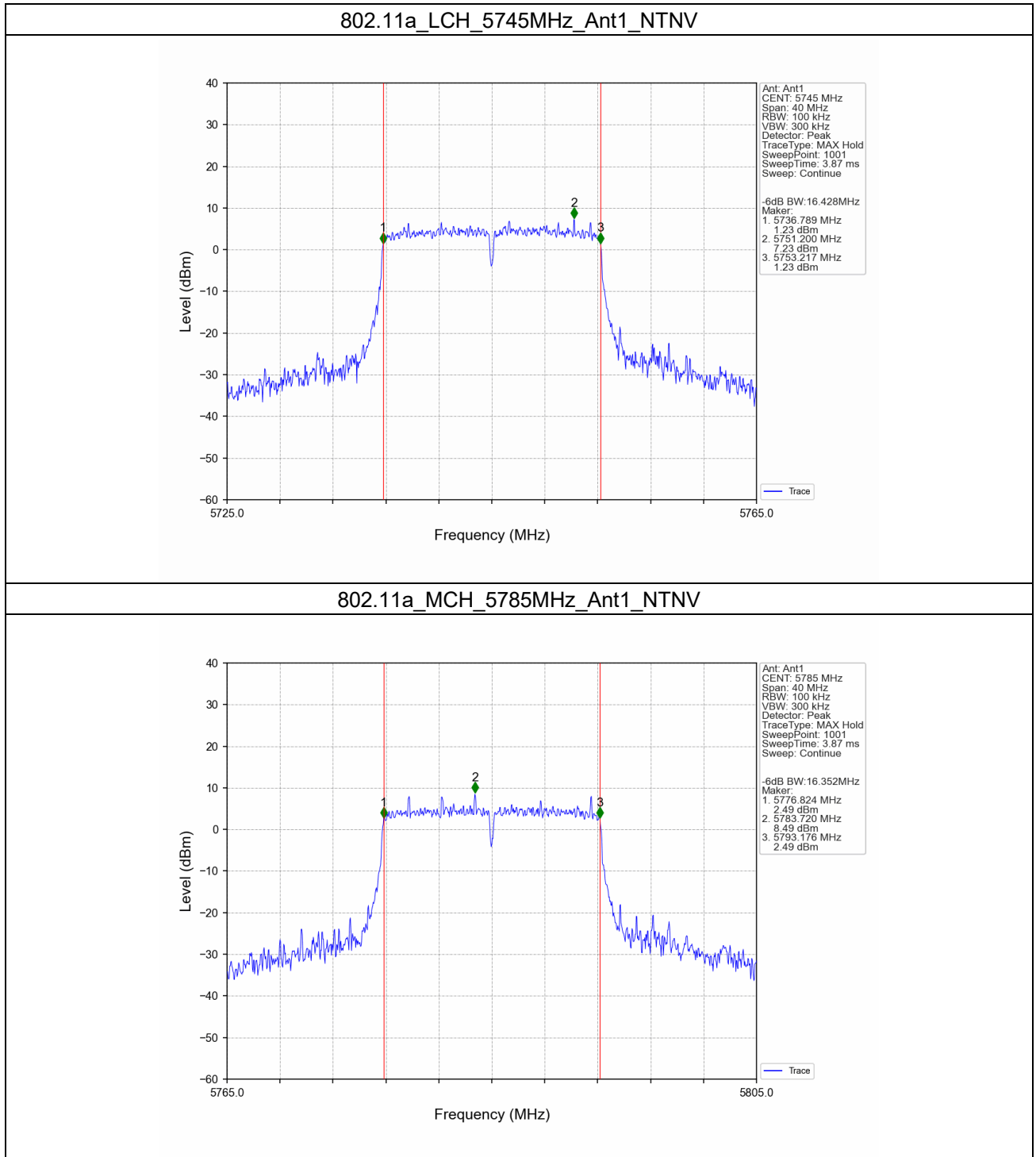
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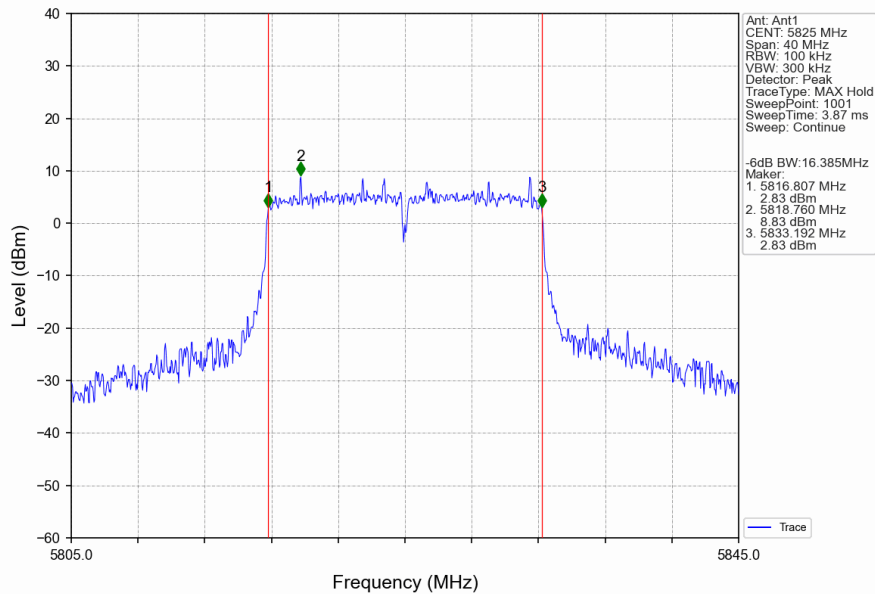
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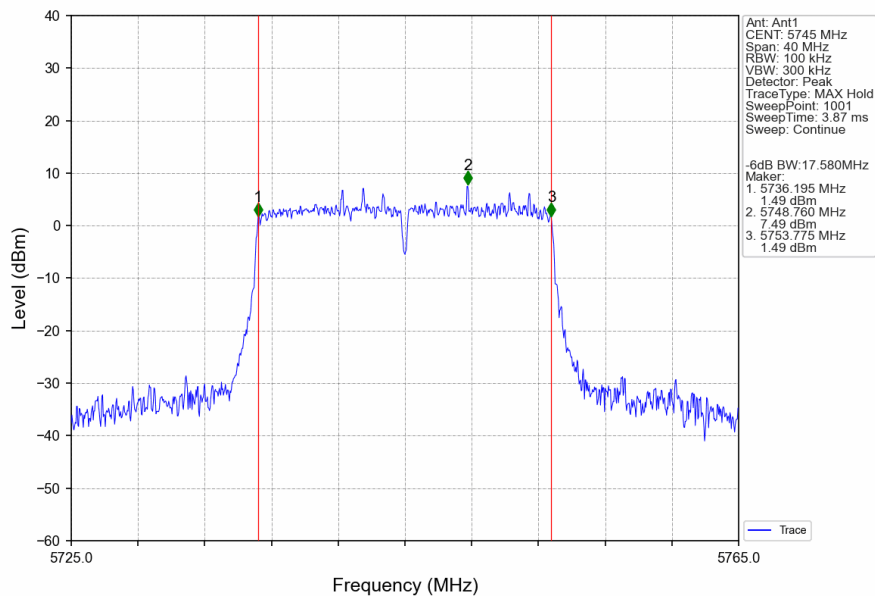
2.2.3 6dB BW



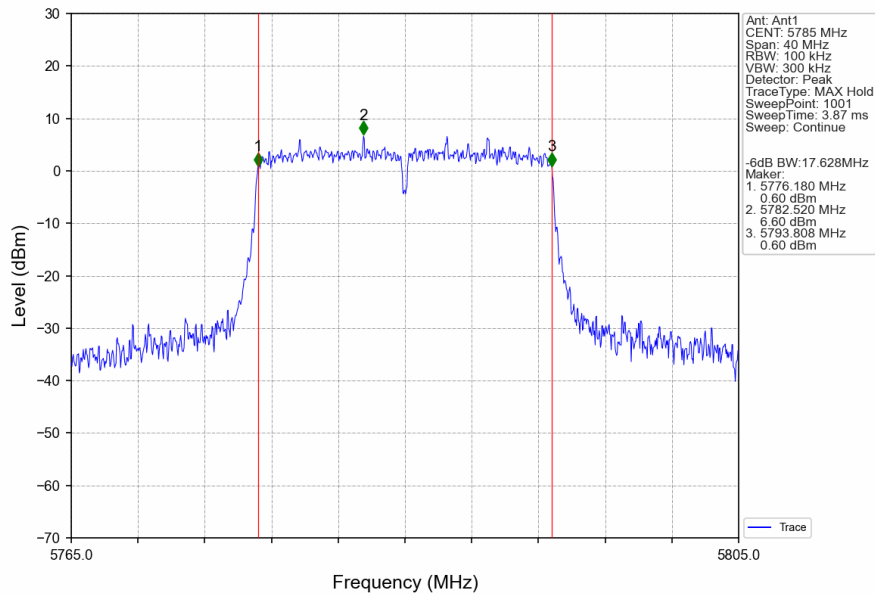
802.11a_HCH_5825MHz_Ant1_NTNV



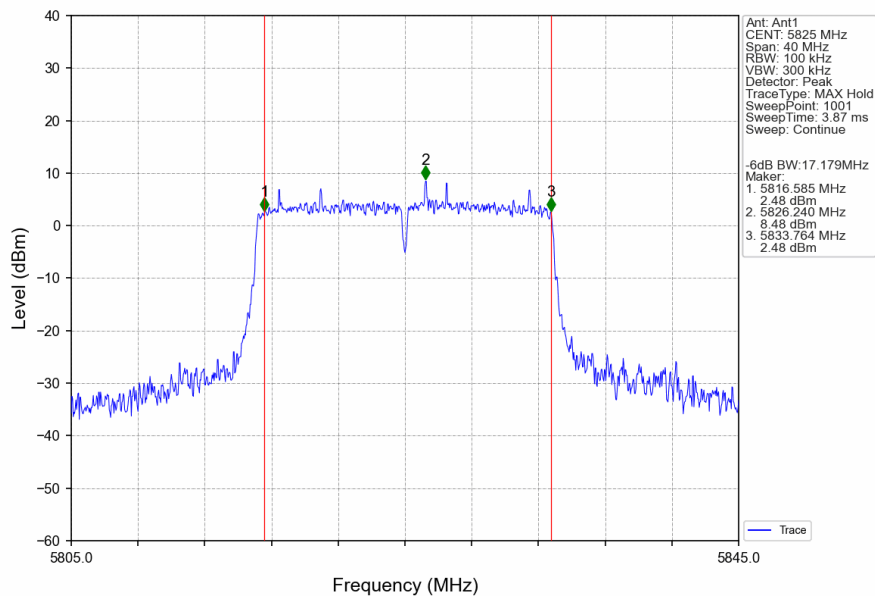
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



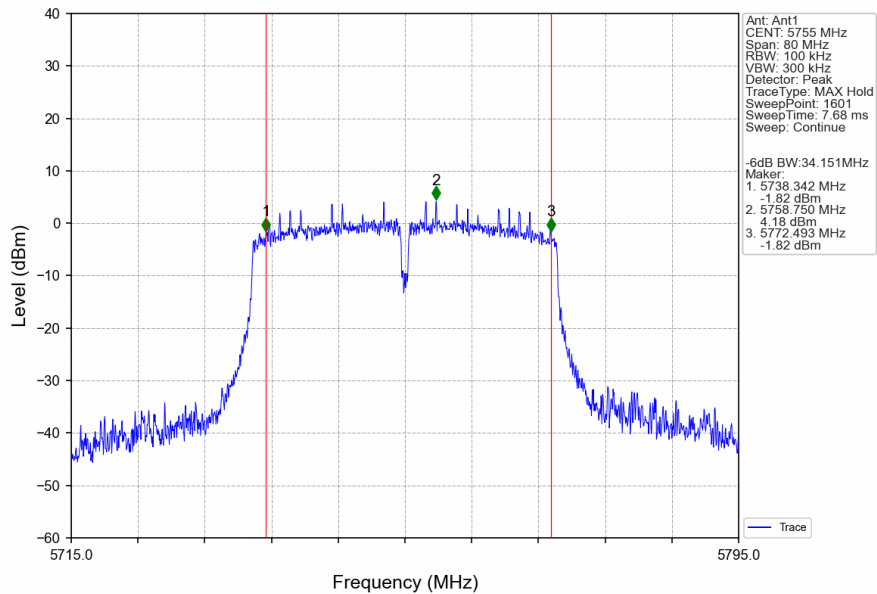
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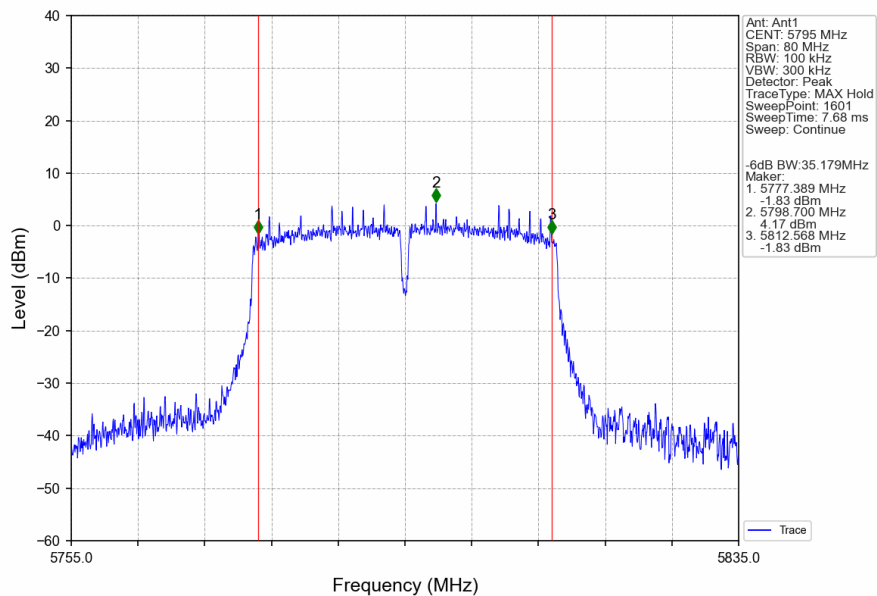
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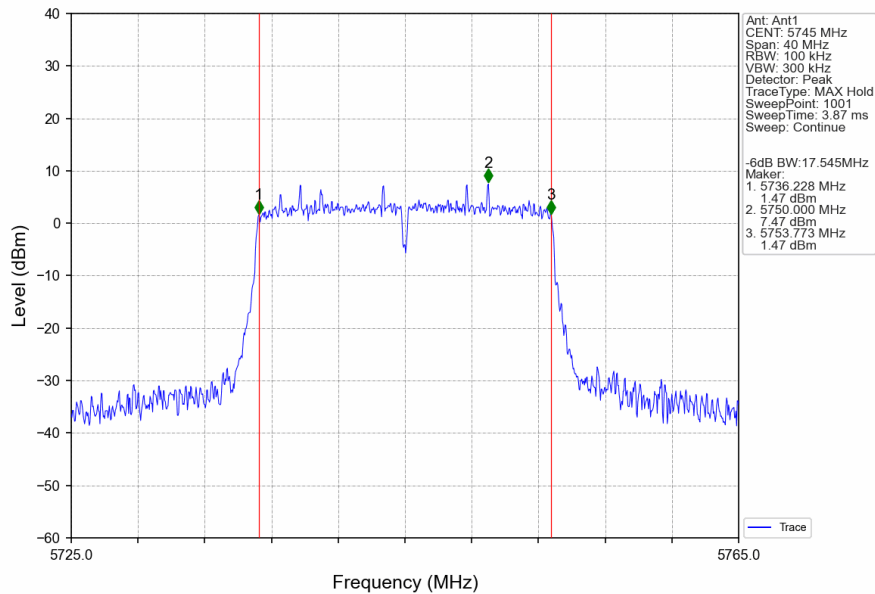
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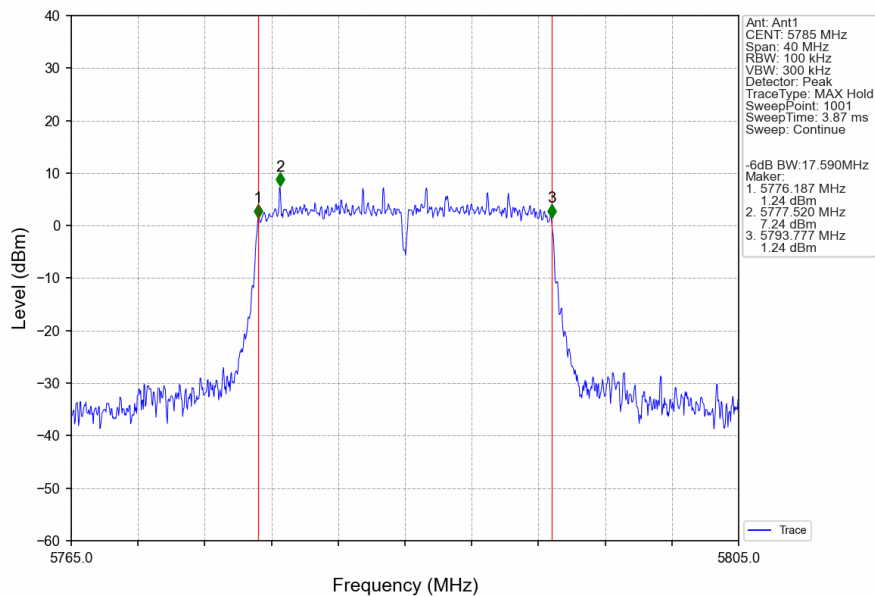
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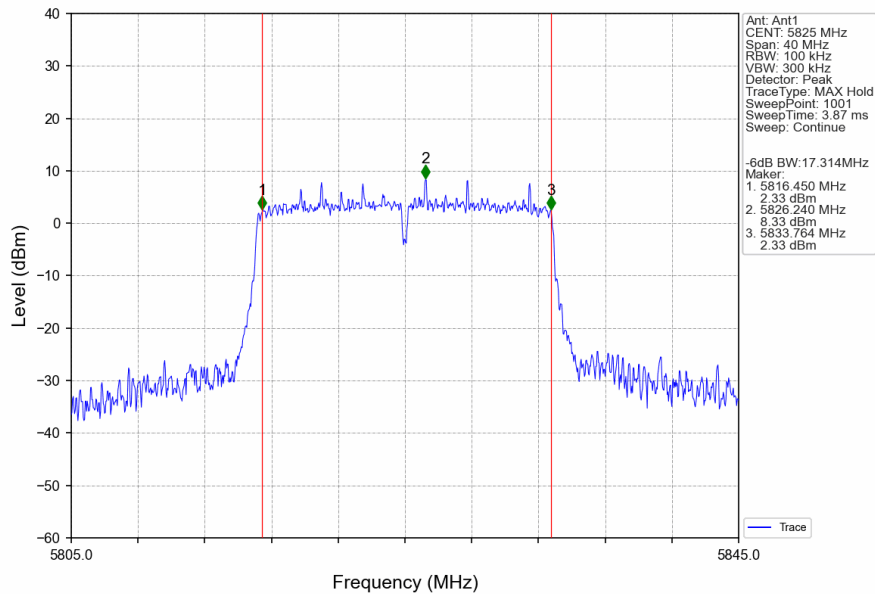
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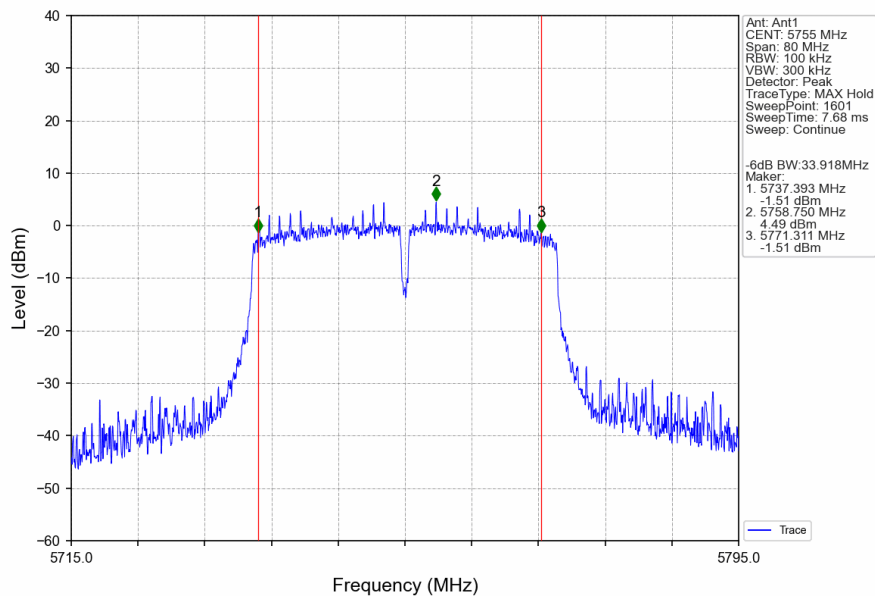
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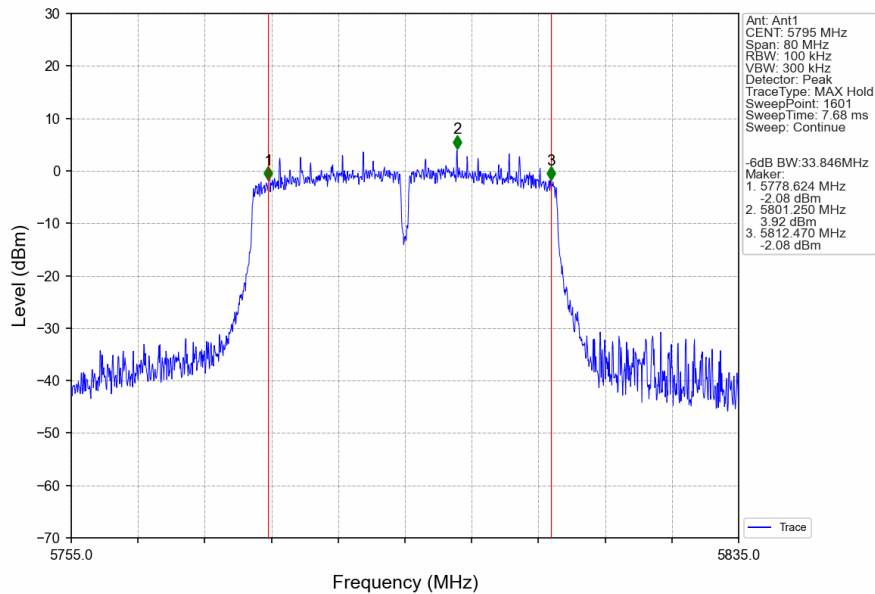
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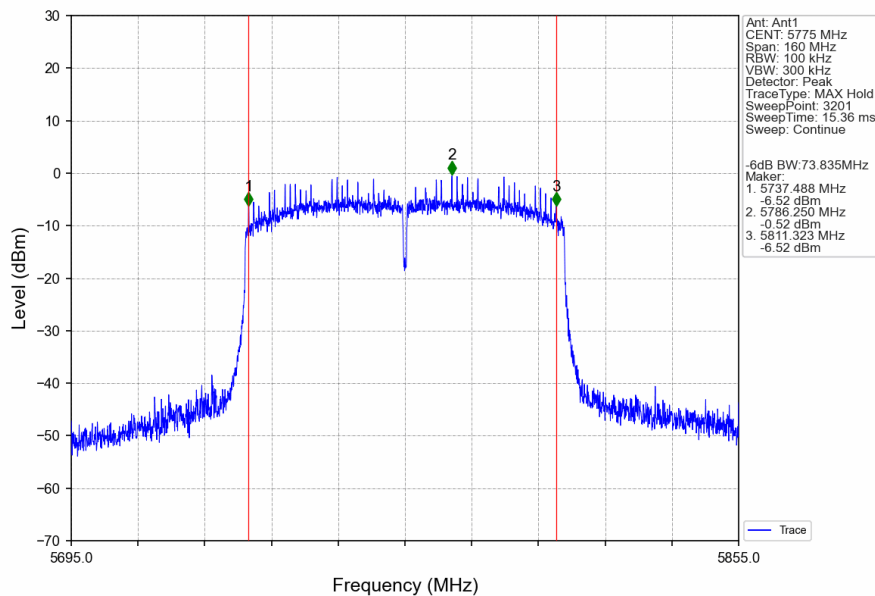
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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	17.20	18.47	/	<=23.98	Pass
		5200	17.57	18.72	/	<=23.98	Pass
		5240	17.41	19.03	/	<=23.98	Pass
		5260	17.02	17.74	/	<=23.76	Pass
		5300	17.05	17.56	/	<=23.65	Pass
		5320	17.76	17.96	/	<=23.77	Pass
		5500	14.02	14.06	/	<=23.65	Pass
		5580	18.81	17.07	/	<=23.98	Pass
		5700	17.86	16.96	/	<=23.79	Pass
		5745	16.86	16.54	/	<=30	Pass
		5785	16.93	16.74	/	<=30	Pass
		5825	17.43	17.22	/	<=30	Pass
		5720	18.24	17.03	/	<=23.98	Pass
802.11n (HT20)	MIMO	5180	15.84	16.86	19.39	<=23.98	Pass
		5200	15.65	16.94	19.35	<=23.98	Pass
		5240	16.01	17.10	19.60	<=23.98	Pass
		5260	15.17	15.71	18.46	<=23.86	Pass
		5300	15.11	15.61	18.38	<=23.89	Pass
		5320	15.10	15.70	18.42	<=23.88	Pass
		5500	14.45	12.29	16.51	<=23.85	Pass
		5580	16.49	14.72	18.70	<=23.86	Pass
		5700	14.86	13.69	17.32	<=23.85	Pass
		5745	14.44	14.40	17.43	<=30	Pass
		5785	14.61	14.46	17.55	<=30	Pass
		5825	15.18	14.87	18.04	<=30	Pass
		5720	15.79	14.68	18.28	<=23.88	Pass
802.11n (HT40)	MIMO	5190	16.02	17.23	19.68	<=23.98	Pass
		5230	16.32	17.14	19.76	<=23.98	Pass
		5270	15.24	16.03	18.66	<=23.98	Pass
		5310	14.20	14.50	17.36	<=23.98	Pass
		5510	13.60	11.30	15.61	<=23.98	Pass



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		5550	16.95	15.43	19.27	<=23.98	Pass
		5670	15.67	15.08	18.40	<=23.98	Pass
		5755	15.52	15.12	18.33	<=30	Pass
		5795	15.48	15.10	18.30	<=30	Pass
		5710	16.07	15.37	18.74	<=23.98	Pass
802.11ac (VHT20)	MIMO	5180	15.23	16.73	19.05	<=23.98	Pass
		5200	15.59	16.80	19.25	<=23.98	Pass
		5240	15.92	16.99	19.50	<=23.98	Pass
		5260	15.05	15.73	18.41	<=23.88	Pass
		5300	14.96	15.75	18.38	<=23.86	Pass
		5320	15.04	15.73	18.41	<=23.88	Pass
		5500	14.51	12.33	16.57	<=23.88	Pass
		5580	16.61	14.45	18.67	<=23.86	Pass
		5700	14.77	13.66	17.26	<=23.87	Pass
		5745	14.71	14.50	17.62	<=30	Pass
		5785	14.61	14.40	17.52	<=30	Pass
		5825	15.18	14.92	18.06	<=30	Pass
		5720	15.83	14.87	18.39	<=23.85	Pass
802.11ac (VHT40)	MIMO	5190	14.86	16.21	18.60	<=23.98	Pass
		5230	16.31	17.26	19.82	<=23.98	Pass
		5270	15.21	15.85	18.55	<=23.98	Pass
		5310	13.93	14.41	17.19	<=23.98	Pass
		5510	13.55	11.13	15.52	<=23.98	Pass
		5550	17.19	15.34	19.37	<=23.98	Pass
		5670	15.85	14.92	18.42	<=23.98	Pass
		5755	15.21	15.03	18.13	<=30	Pass
		5795	15.03	14.85	17.95	<=30	Pass
		5710	16.19	15.03	18.66	<=23.98	Pass
802.11ac (VHT80)	MIMO	5210	14.36	15.30	17.87	<=23.98	Pass
		5290	13.44	13.69	16.58	<=23.98	Pass
		5530	13.84	11.96	16.01	<=23.98	Pass
		5610	17.06	16.03	19.59	<=23.98	Pass
		5775	15.22	15.19	18.22	<=30	Pass
		5690	16.84	15.71	19.32	<=23.98	Pass

Note1: Antenna Gain:

- Band: 1 Ant1: 1.70dBi;
- Band: 3 Ant1: 1.1dBi ;
- Band: 2A Ant1: 1.10dBi;
- Band: 2C Ant1: 0.70dBi;
- Band: 1+2A Ant1: 1.70dBi;
- Band: 2C+3 Ant1: 1.1dBi ;
- Band: 1 Ant2: 1.70dBi;



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Directional Gain:1.7 dBi, 1.1 dBi, 0.7 dBi, 1.1 dBi

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	6.28	7.50	/	<=11	Pass
		5200	6.45	7.72	/	<=11	Pass
		5240	6.34	7.89	/	<=11	Pass
		5260	5.84	6.71	/	<=11	Pass
		5300	5.79	6.46	/	<=11	Pass
		5320	6.50	6.99	/	<=11	Pass
		5500	2.98	3.26	/	<=11	Pass
		5580	7.62	6.13	/	<=11	Pass
		5700	6.70	5.80	/	<=11	Pass
		5720	7.06	5.97	/	<=11	Pass
802.11n (HT20)	MIMO	5180	4.30	5.41	7.84	<=11	Pass
		5200	4.20	5.61	7.92	<=11	Pass
		5240	4.63	5.72	8.20	<=11	Pass
		5260	3.66	4.40	6.97	<=11	Pass
		5300	3.68	4.30	6.94	<=11	Pass
		5320	3.76	4.36	7.04	<=11	Pass
		5500	3.17	0.90	5.07	<=11	Pass
		5580	5.00	3.33	7.14	<=11	Pass
		5700	3.41	2.24	5.78	<=11	Pass
		5720	4.36	3.44	6.85	<=11	Pass
802.11n (HT40)	MIMO	5190	1.87	3.09	5.44	<=11	Pass
		5230	2.19	3.14	5.57	<=11	Pass
		5270	0.88	1.89	4.39	<=11	Pass
		5310	0.09	0.45	3.12	<=11	Pass
		5510	-0.17	-2.64	1.61	<=11	Pass
		5550	3.06	1.29	5.20	<=11	Pass
		5670	1.82	1.06	4.27	<=11	Pass
		5710	1.81	1.31	4.44	<=11	Pass
802.11ac (VHT20)	MIMO	5180	3.72	5.13	7.43	<=11	Pass
		5200	4.08	5.20	7.66	<=11	Pass
		5240	4.49	5.43	7.84	<=11	Pass



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		5260	3.57	4.40	6.91	<=11	Pass
		5300	3.39	4.31	6.79	<=11	Pass
		5320	3.59	4.42	6.92	<=11	Pass
		5500	3.10	0.88	5.06	<=11	Pass
		5580	5.18	3.20	7.22	<=11	Pass
		5700	3.36	2.21	5.75	<=11	Pass
		5720	4.49	3.54	6.99	<=11	Pass
802.11ac (VHT40)	MIMO	5190	0.72	2.19	4.48	<=11	Pass
		5230	2.32	3.35	5.66	<=11	Pass
		5270	1.08	1.73	4.36	<=11	Pass
		5310	-0.27	0.62	3.17	<=11	Pass
		5510	-0.77	-2.78	1.34	<=11	Pass
		5550	3.16	1.34	5.26	<=11	Pass
		5670	1.68	0.68	4.10	<=11	Pass
		5710	2.09	0.97	4.52	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-2.77	-1.95	0.59	<=11	Pass
		5290	-3.84	-3.37	-0.62	<=11	Pass
		5530	-2.98	-4.65	-0.86	<=11	Pass
		5610	-0.03	-1.30	2.29	<=11	Pass
		5690	-0.12	-1.31	2.15	<=11	Pass

Note1: Antenna Gain:

- Band: 2C+3 Ant1: 1.1dBi ;
- Band: 1 Ant1: 1.70dBi;
- Band: 3 Ant1: 1.1dBi ;
- Band: 2A Ant1: 1.10dBi;
- Band: 2C Ant1: 0.70dBi;
- Band: 1+2A Ant1: 1.70dBi;
- Band: 2C+3 Ant2: 1.1dBi ;
- Band: 1 Ant2: 1.70dBi;
- Band: 3 Ant2: 1.1dBi ;
- Band: 2A Ant2: 1.10dBi;
- Band: 2C Ant2: 0.70dBi;
- Band: 1+2A Ant2: 1.70dBi;

Directional Gain:1.7 dBi, 1.1 dBi, 0.7 dBi, 1.1 dBi



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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	2.58	2.50	/	<=30	Pass
		5785	2.83	2.73	/	<=30	Pass
		5825	3.47	3.14	/	<=30	Pass
		5720	4.04	2.57	/	<=30	Pass
802.11n (HT20)	MIMO	5745	0.06	0.02	2.90	<=30	Pass
		5785	0.12	0.03	3.05	<=30	Pass
		5825	0.75	0.35	3.52	<=30	Pass
		5720	1.16	0.07	3.66	<=30	Pass
802.11n (HT40)	MIMO	5755	-1.70	-2.05	1.14	<=30	Pass
		5795	-1.59	-1.98	1.20	<=30	Pass
		5710	-2.48	-3.22	0.17	<=30	Pass
802.11ac (VHT20)	MIMO	5745	0.33	0.15	3.18	<=30	Pass
		5785	0.10	0.05	3.02	<=30	Pass
		5825	0.61	0.50	3.50	<=30	Pass
		5720	1.06	0.08	3.43	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-1.83	-1.98	0.94	<=30	Pass
		5795	-2.02	-2.25	0.83	<=30	Pass
		5710	-2.58	-3.61	-0.06	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-4.70	-4.55	-1.76	<=30	Pass
		5690	-6.83	-8.05	-4.39	<=30	Pass

Note1: Antenna Gain:

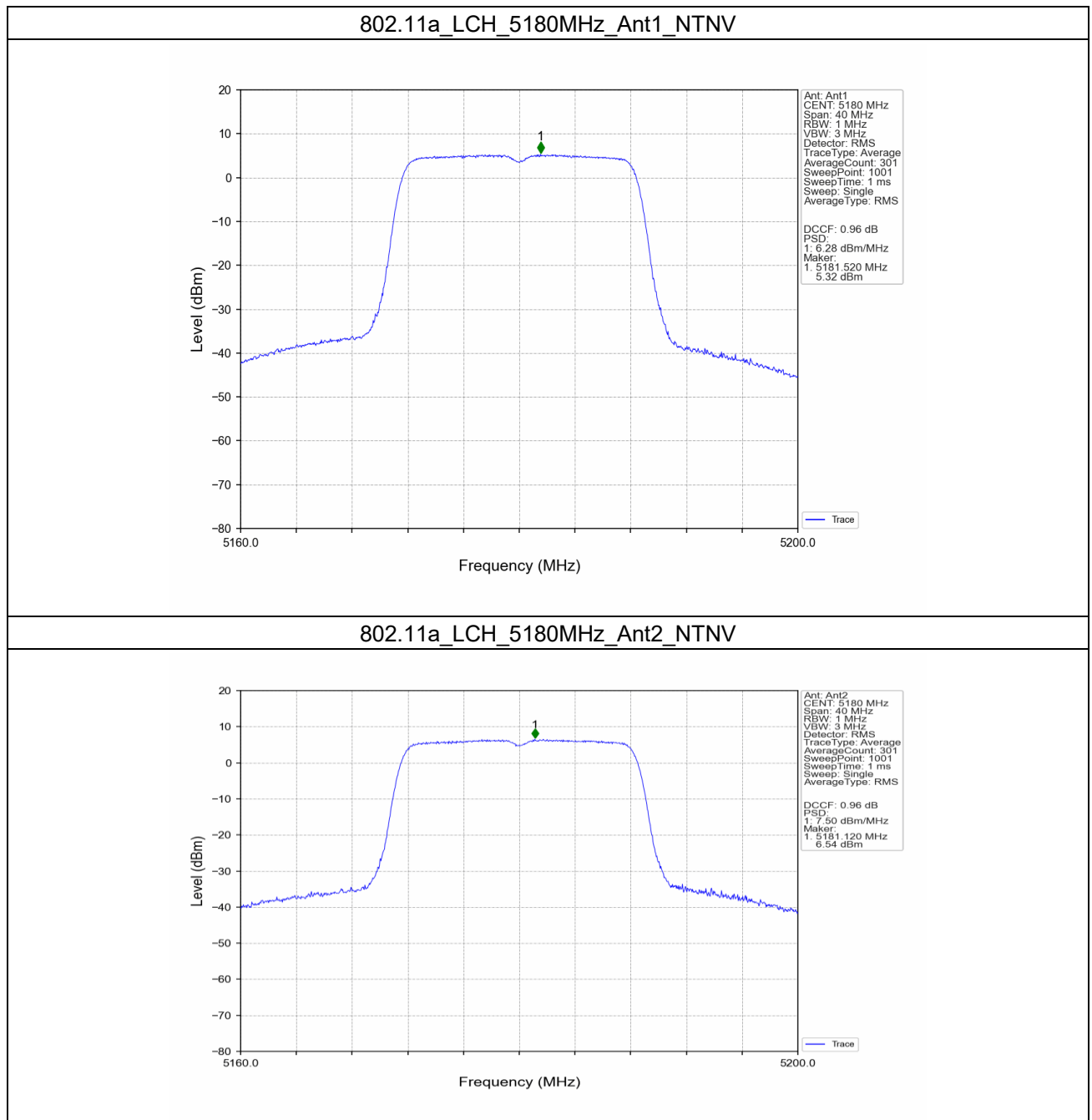
- Band: 1 Ant1: 1.70dBi;
- Band: 3 Ant1: 1.1dBi ;
- Band: 2A Ant1: 1.10dBi;
- Band: 2C Ant1: 0.70dBi;
- Band: 1+2A Ant1: 1.70dBi;
- Band: 2C+3 Ant1: 1.1dBi ;
- Band: 1 Ant2: 1.70dBi;
- Band: 3 Ant2: 1.1dBi ;
- Band: 2A Ant2: 1.10dBi;
- Band: 2C Ant2: 0.70dBi;
- Band: 1+2A Ant2: 1.70dBi;
- Band: 2C+3 Ant2: 1.1dBi ;

Directional Gain: 1.7 dBi, 1.1 dBi, 0.7 dBi, 1.1 dBi

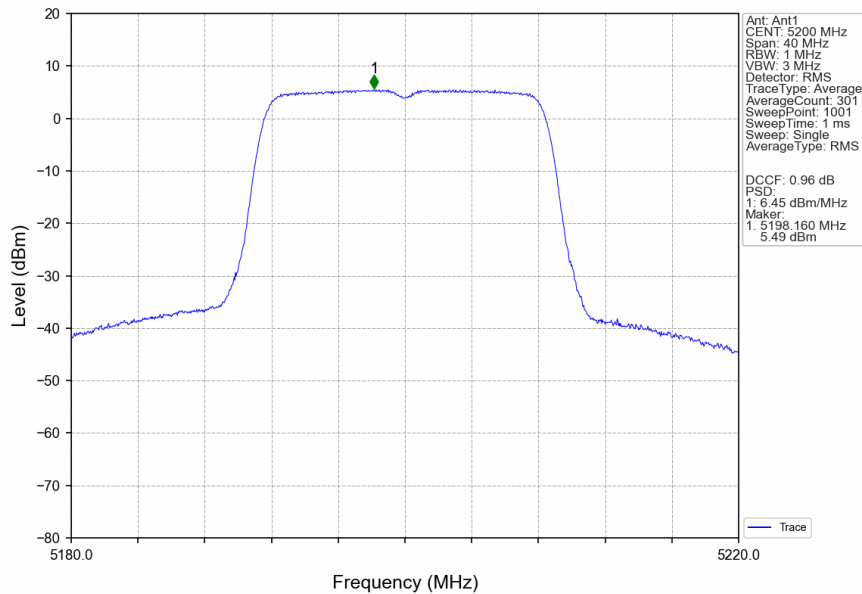


4.2 Test Graph

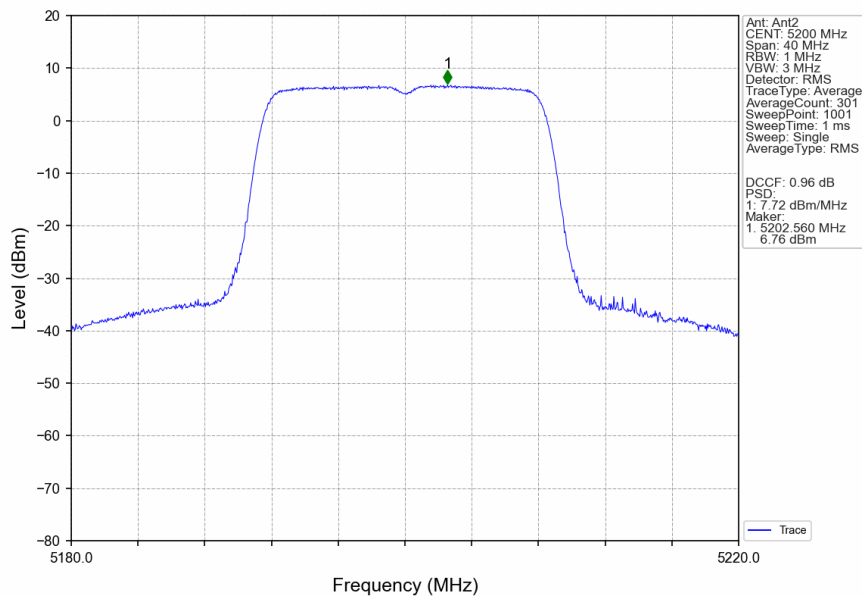
4.2.1 PSD



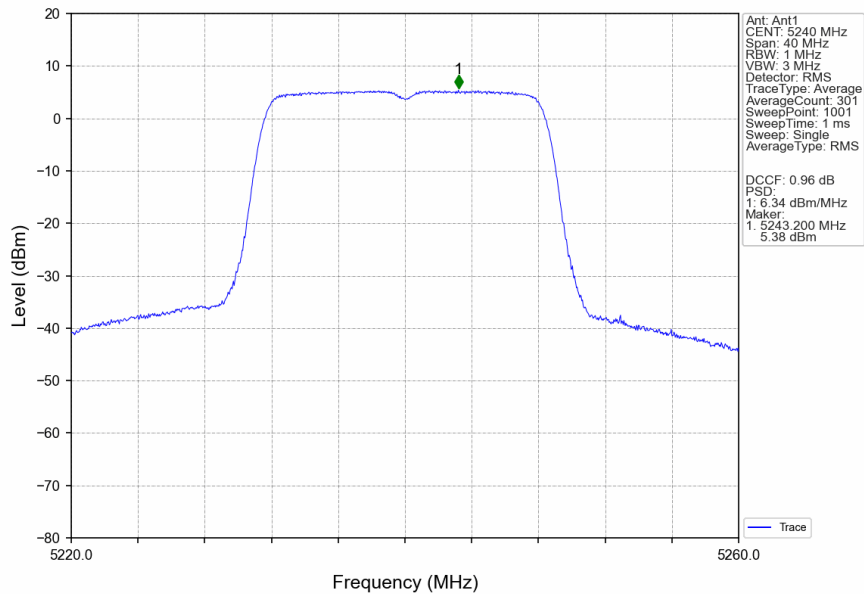
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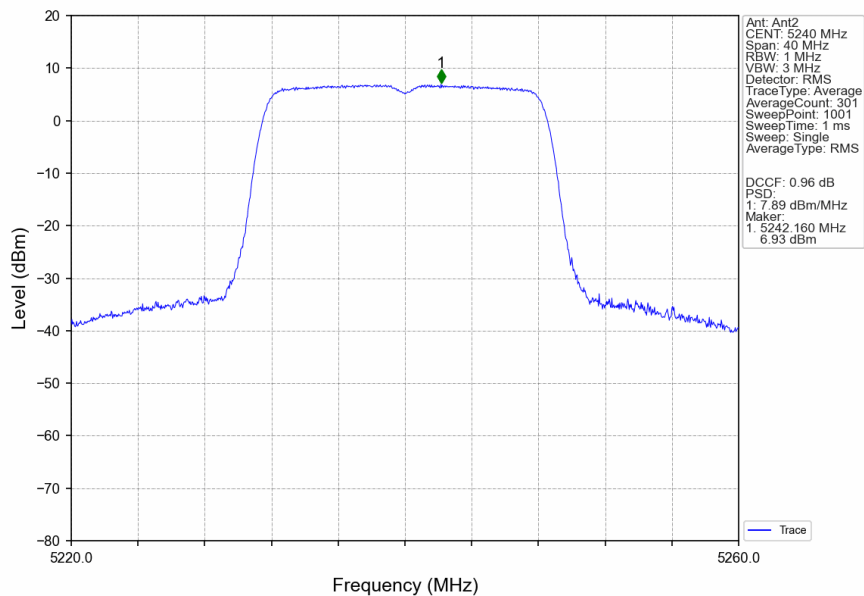
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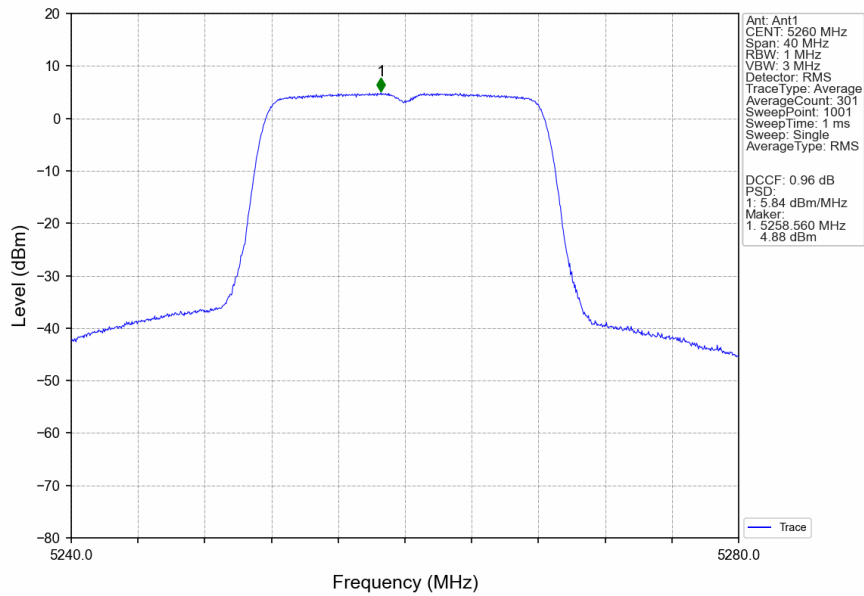
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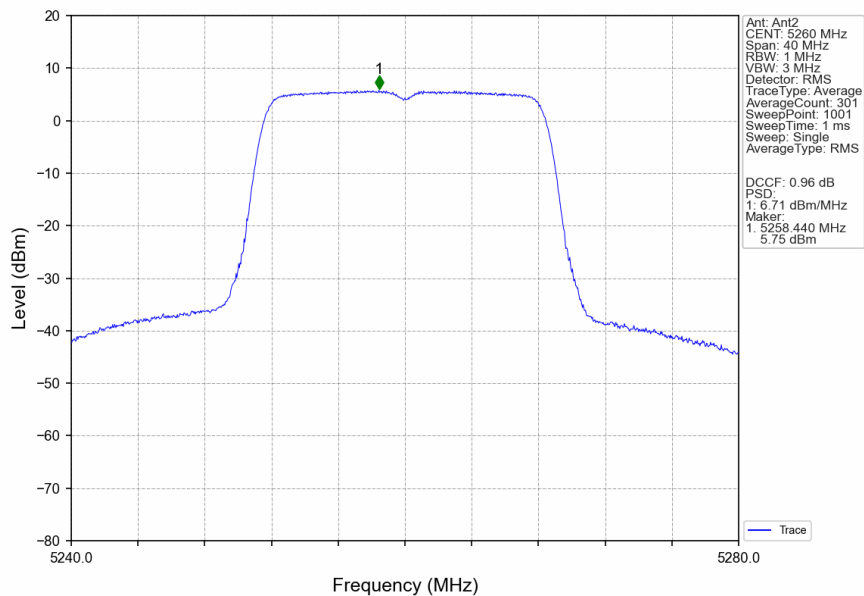
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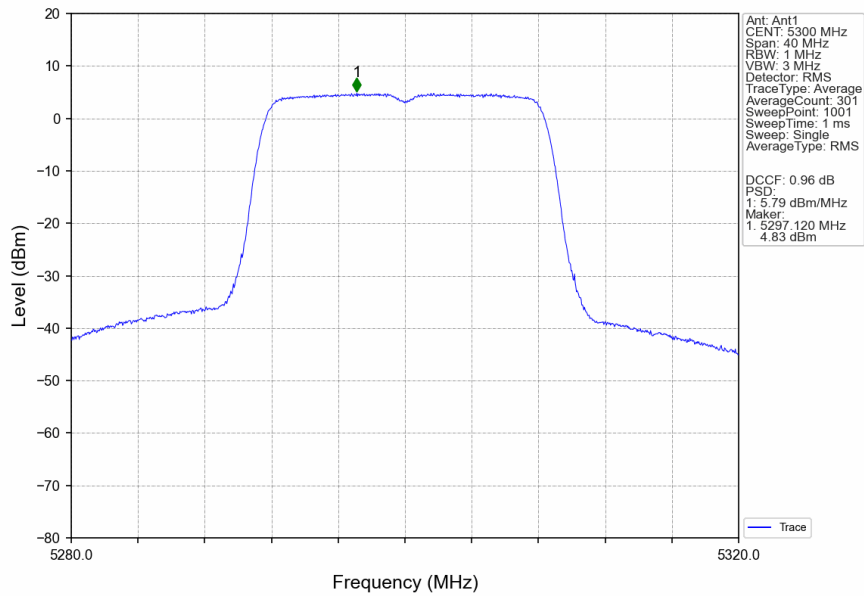
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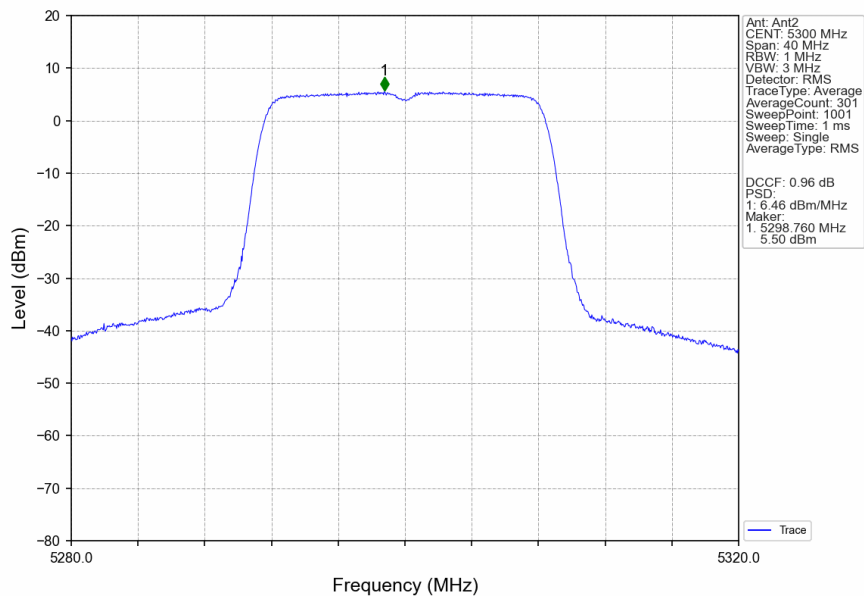
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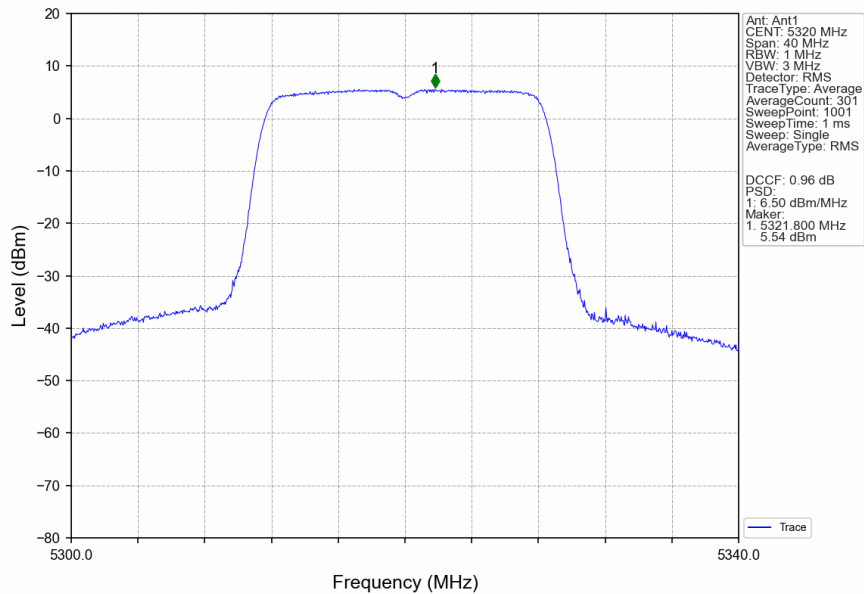
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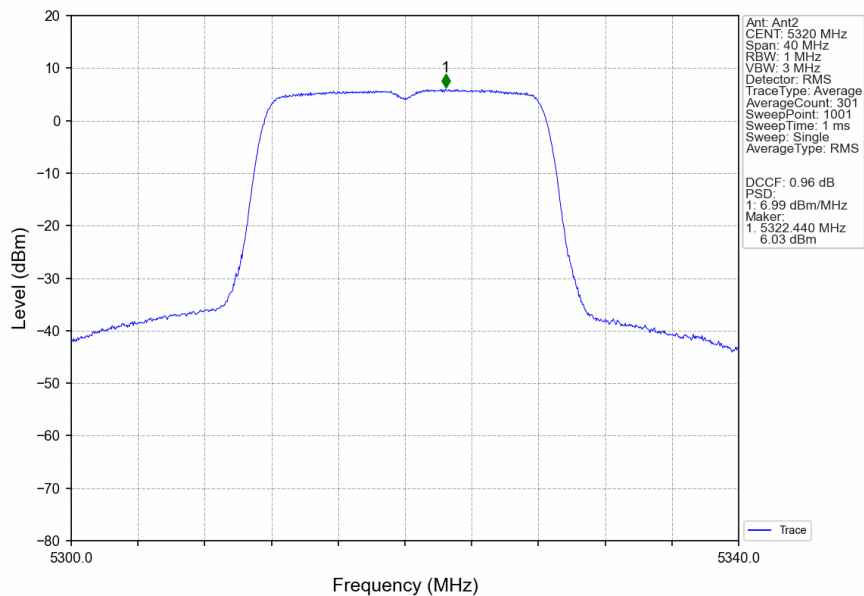
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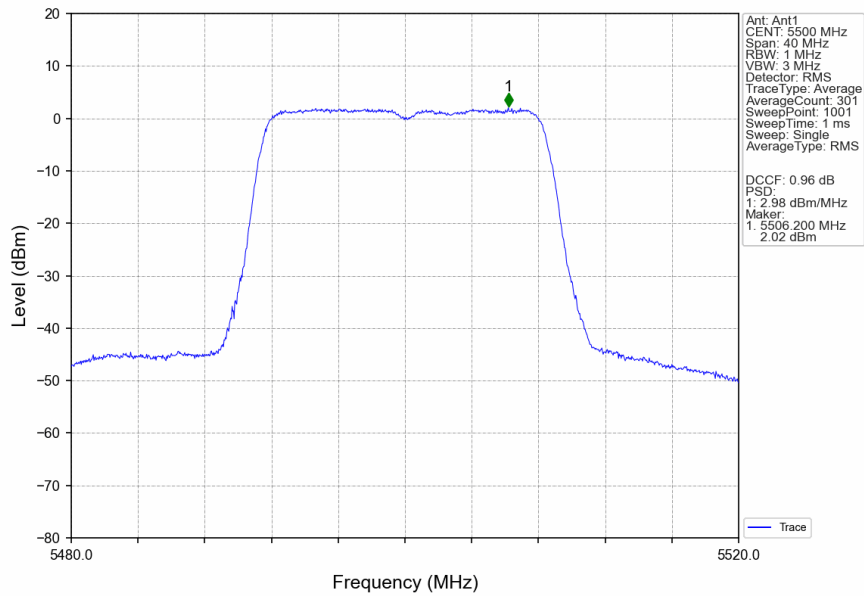
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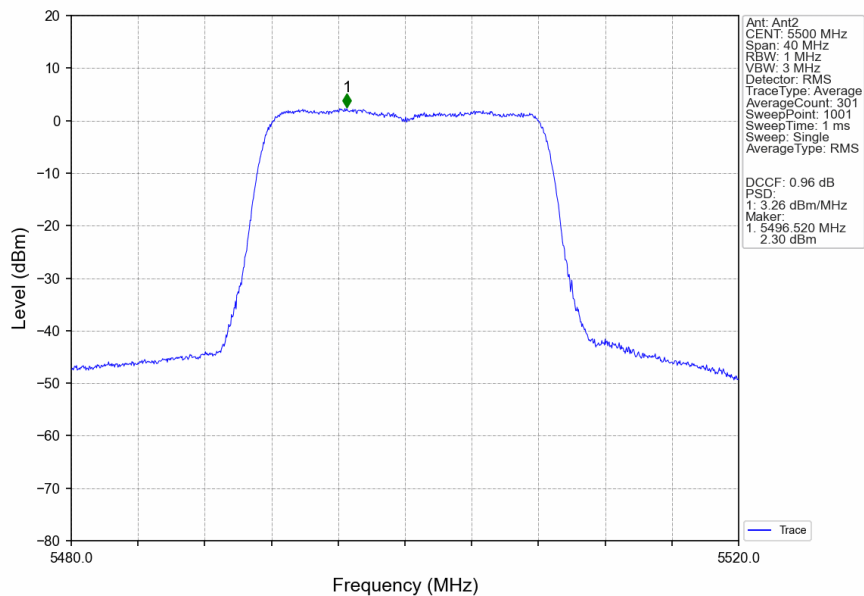
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802.11a_LCH_5500MHz_Ant1_NTNV



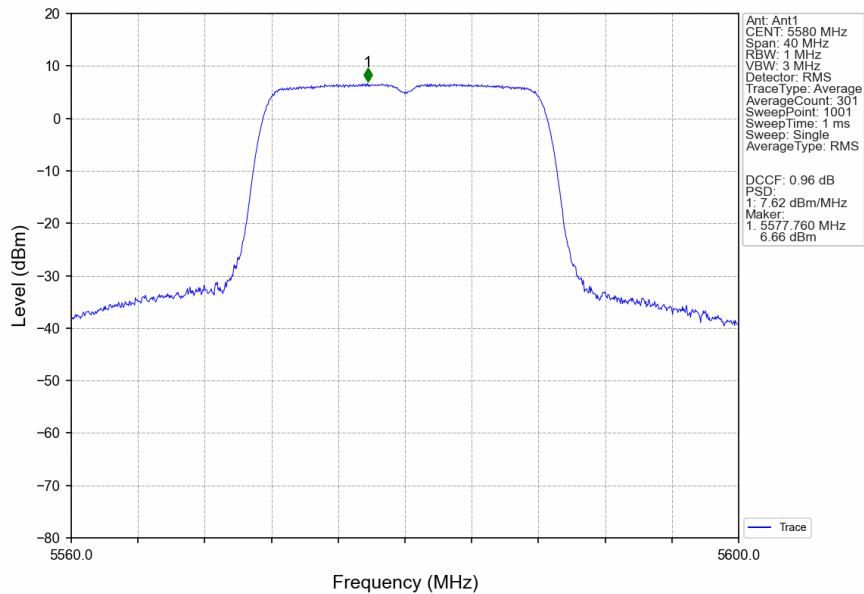
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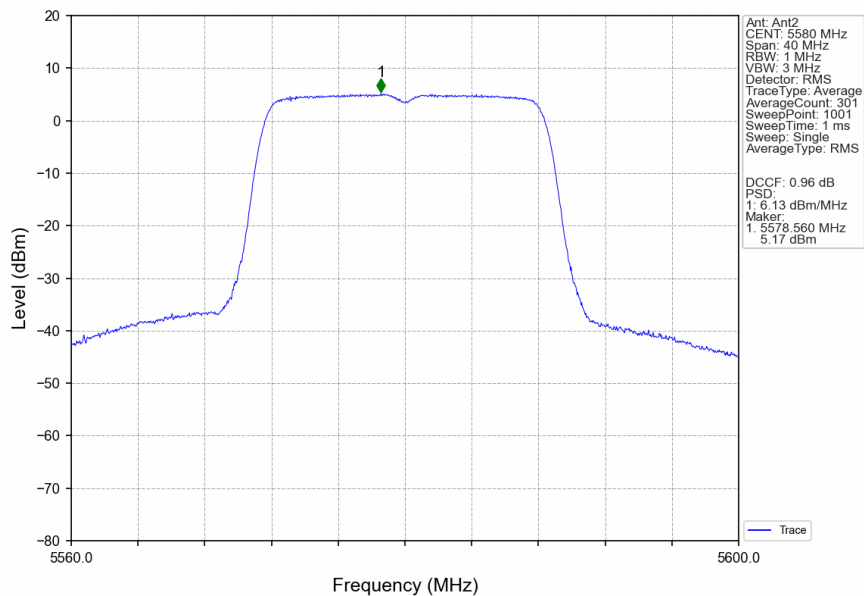
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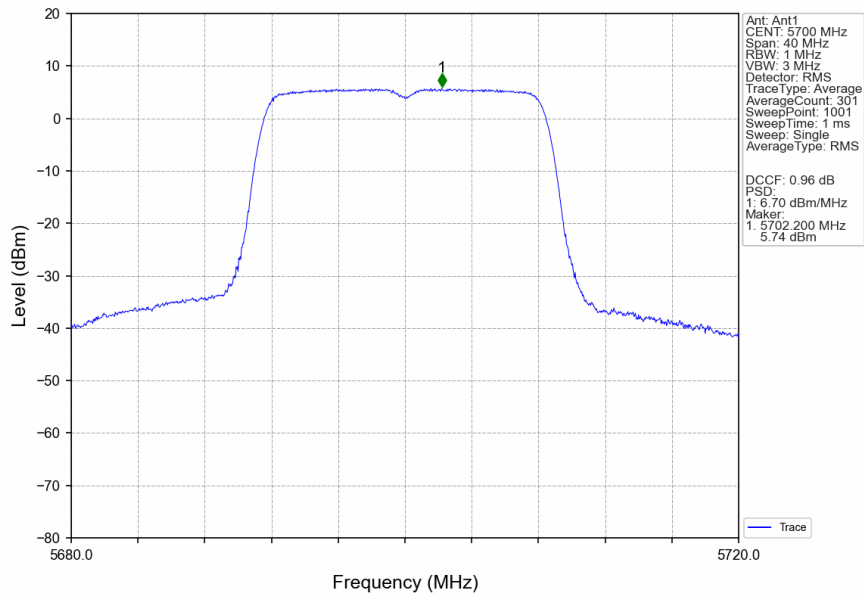
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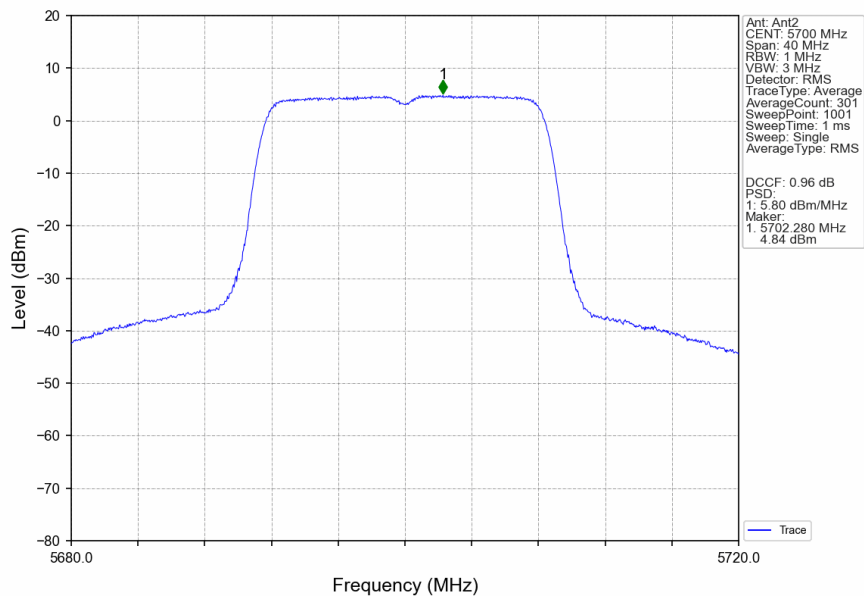
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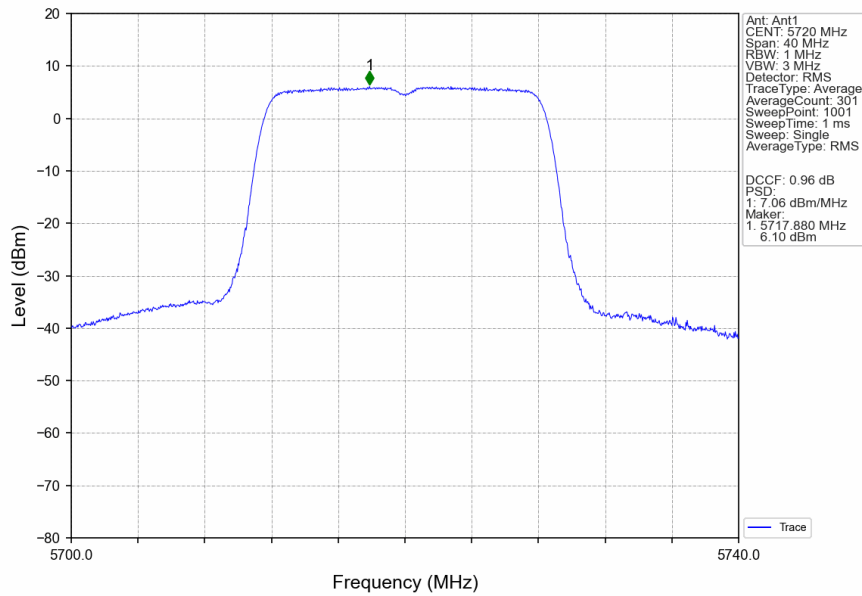
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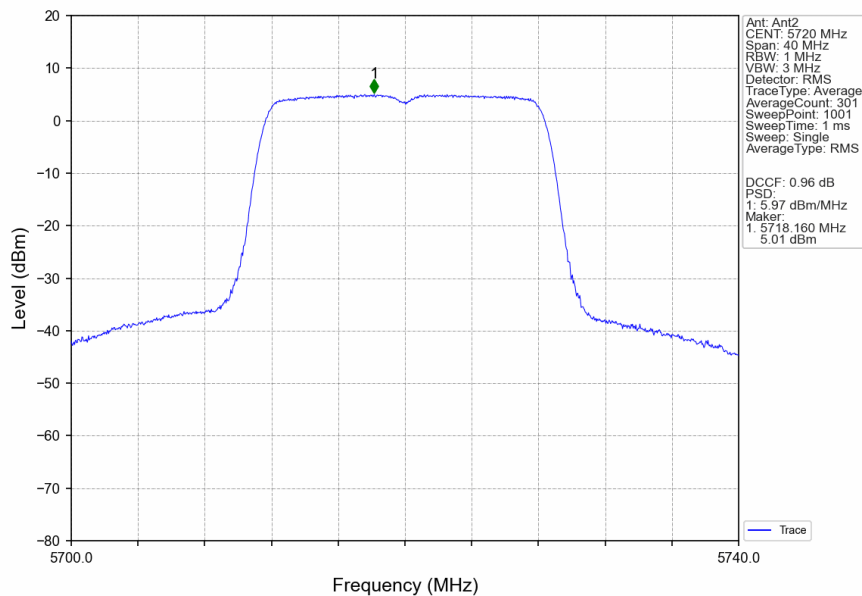
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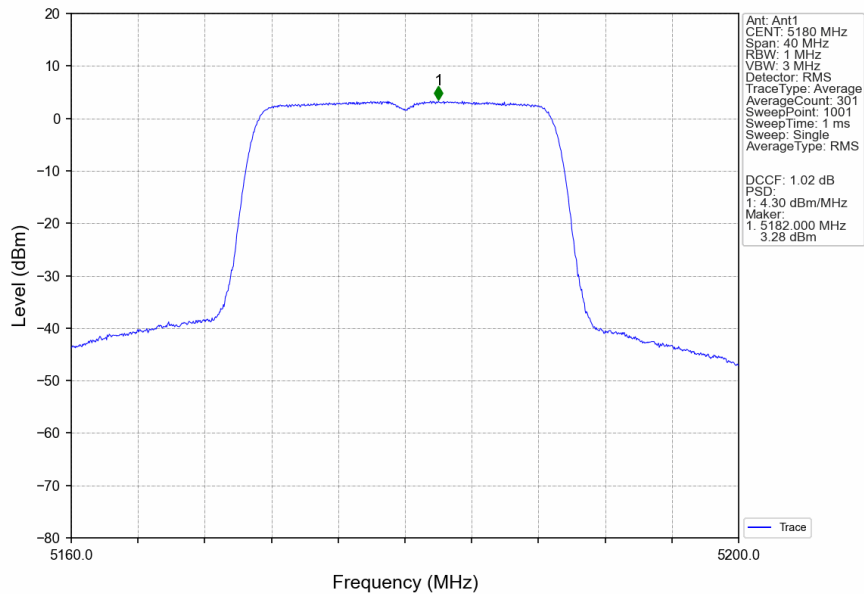
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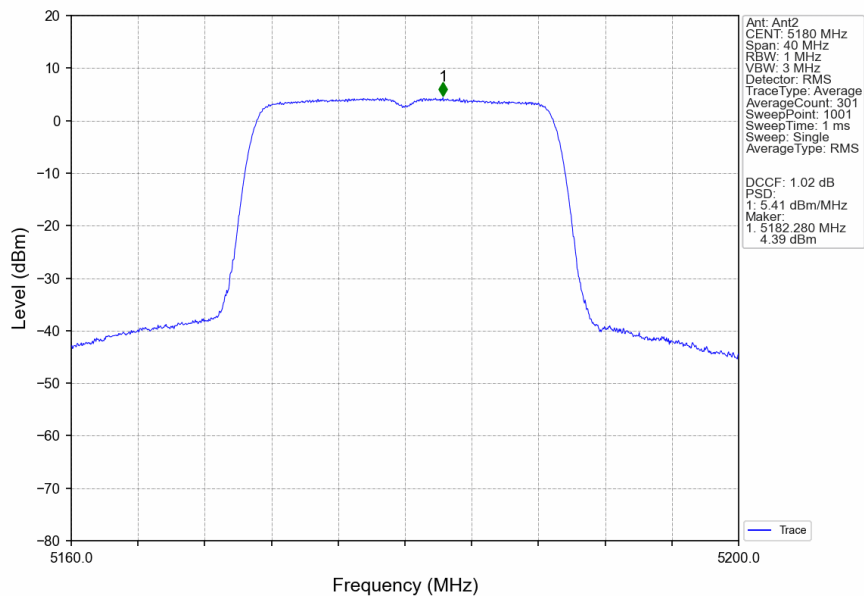
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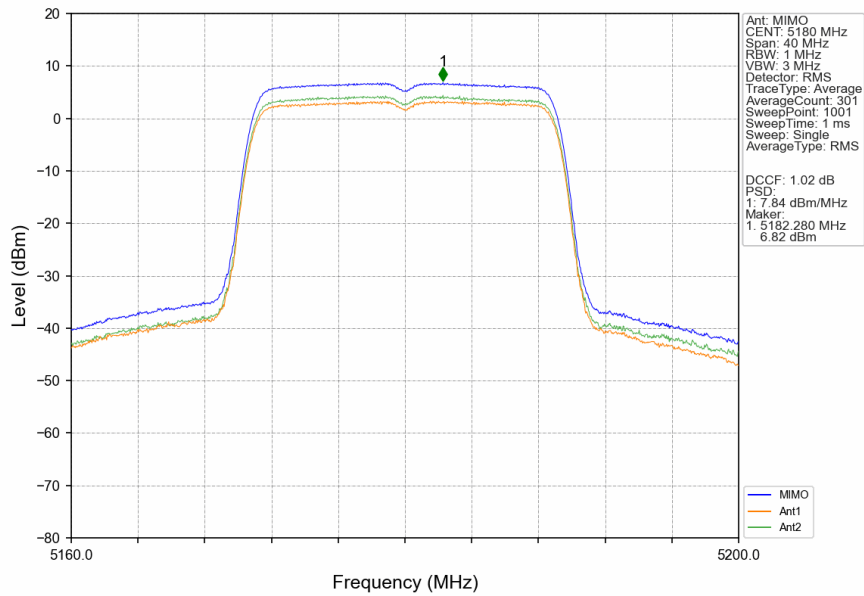
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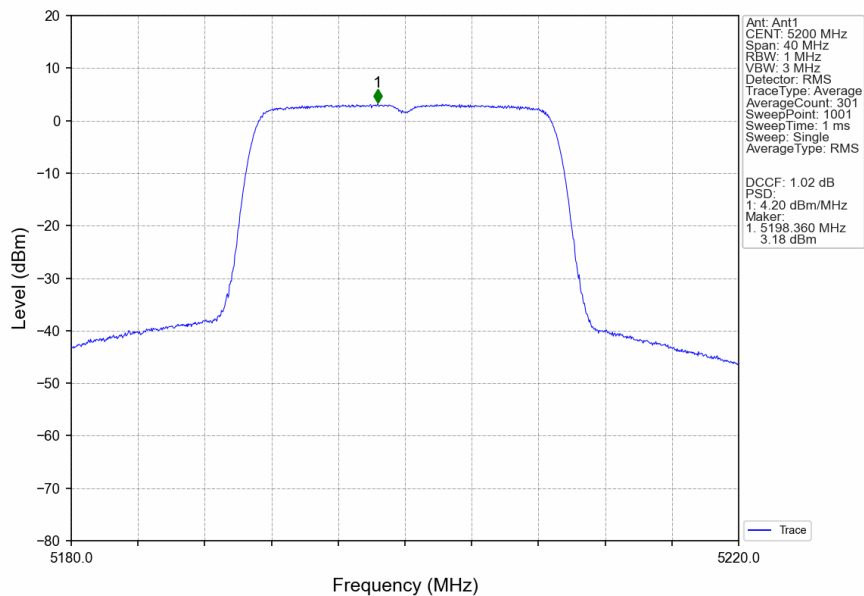
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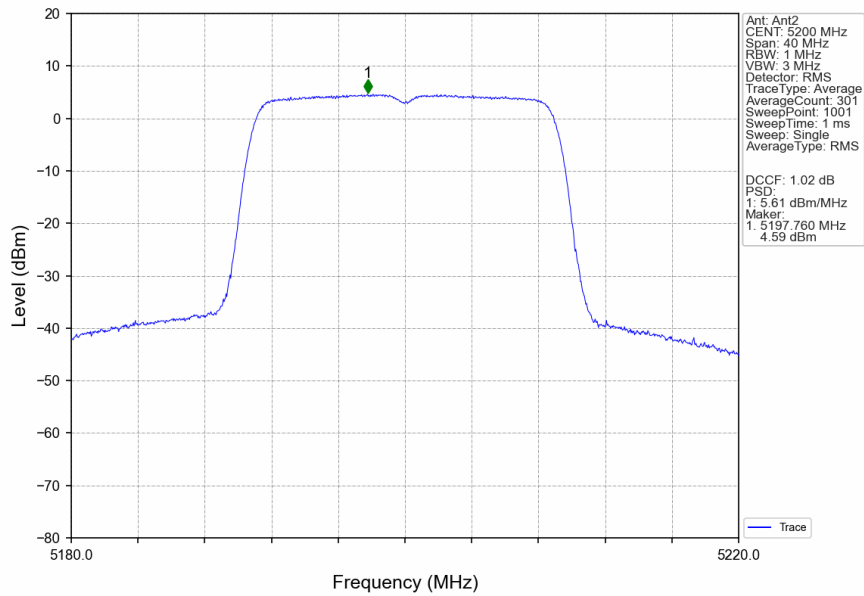
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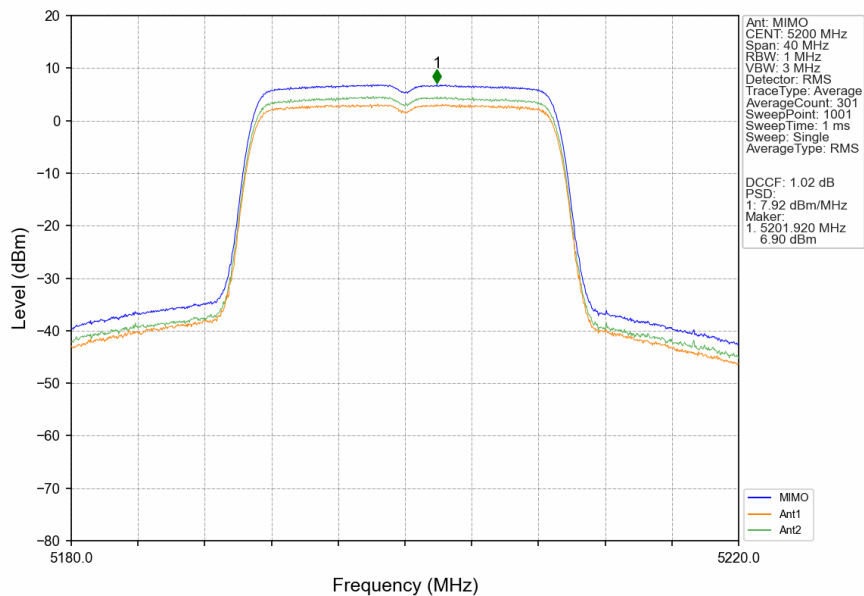
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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



802.11n(HT20)_MCH_5200MHz_MIMO_NTNV



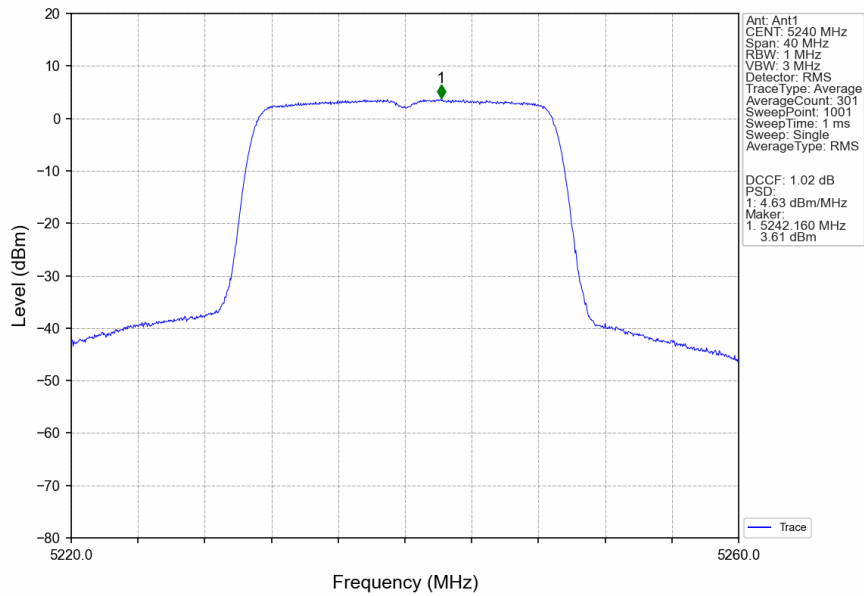
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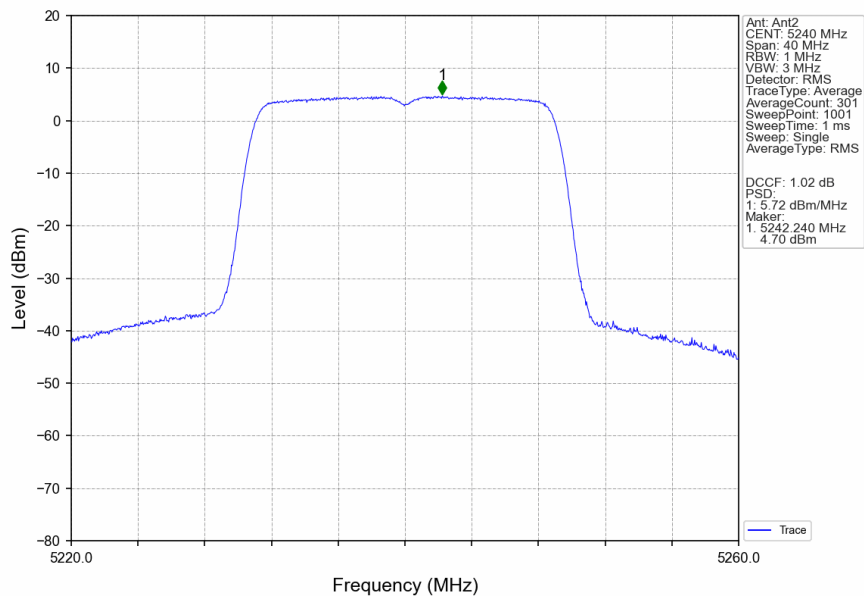
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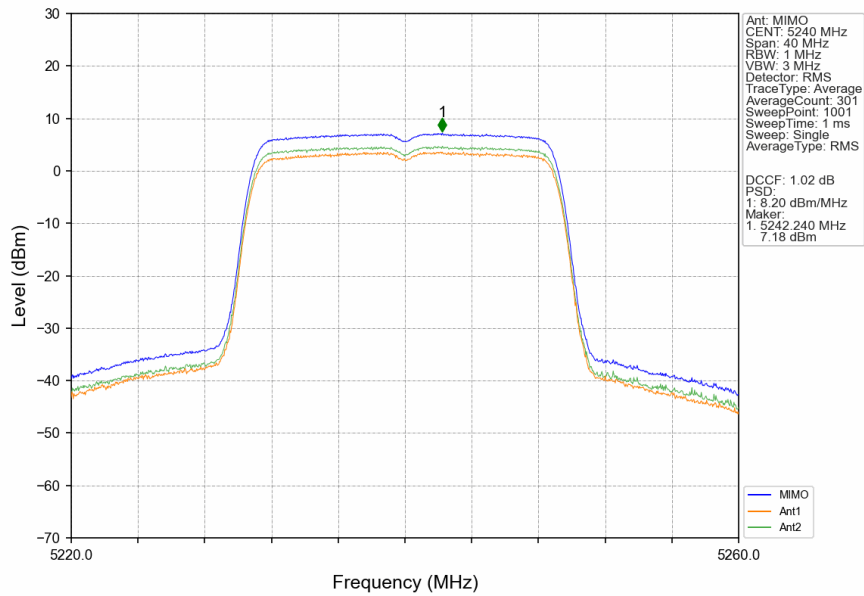
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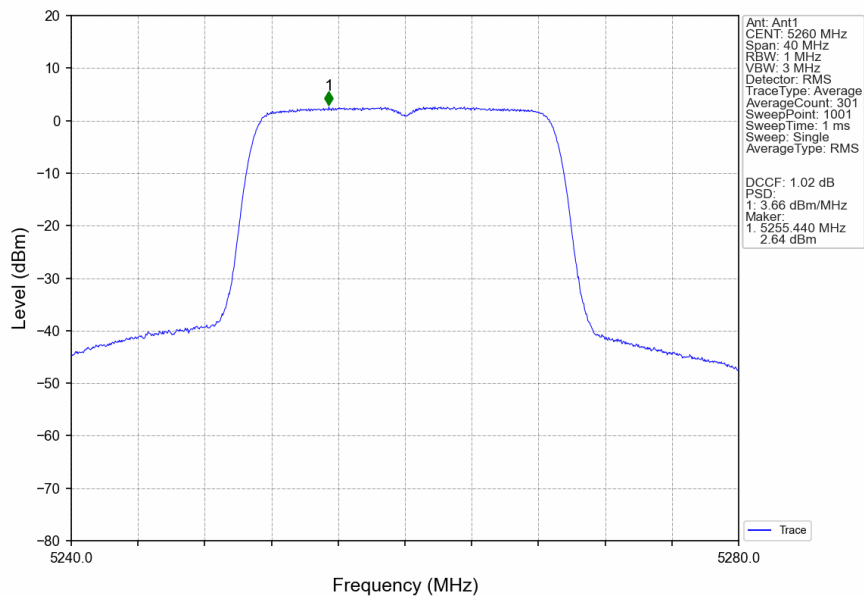
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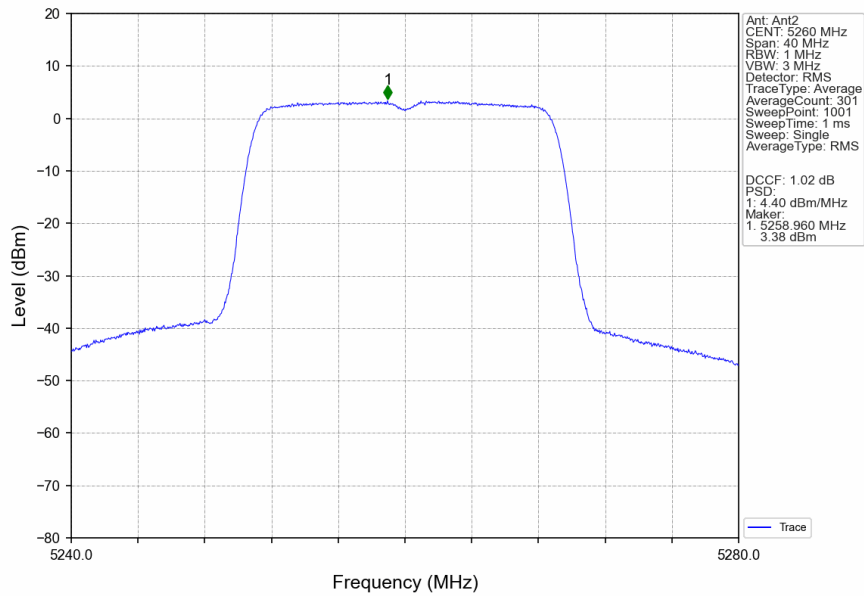
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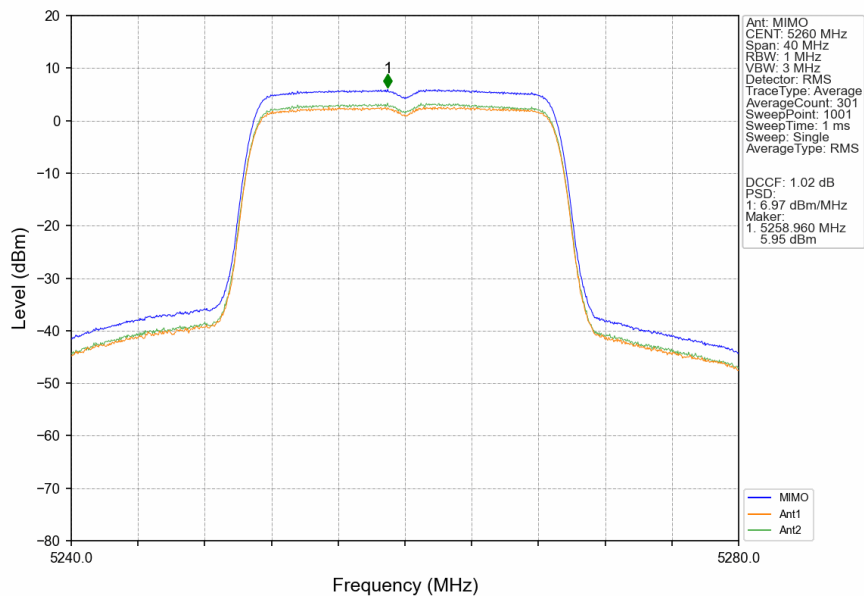
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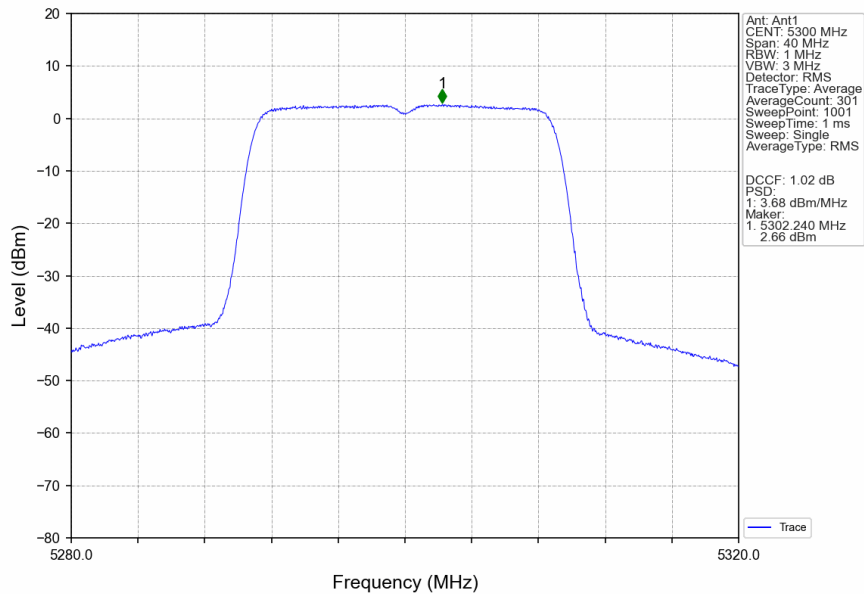
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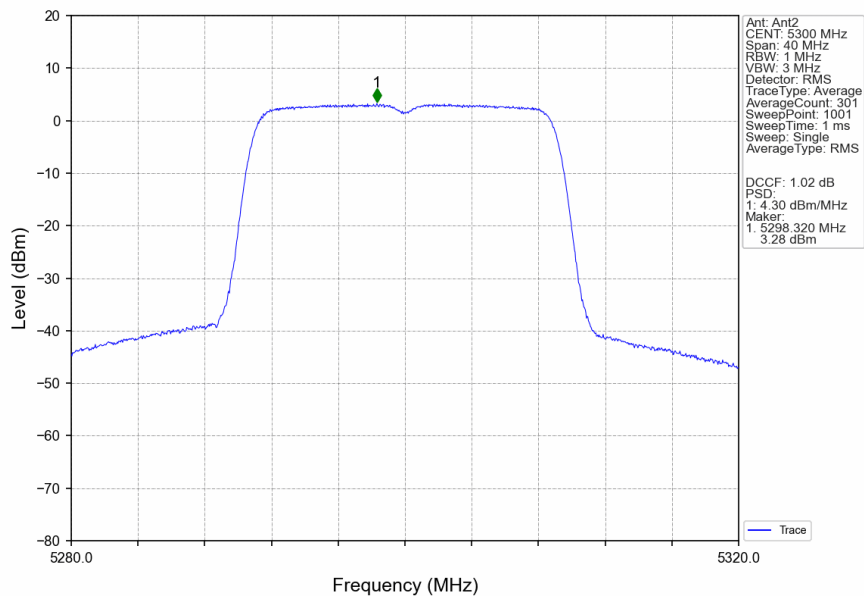
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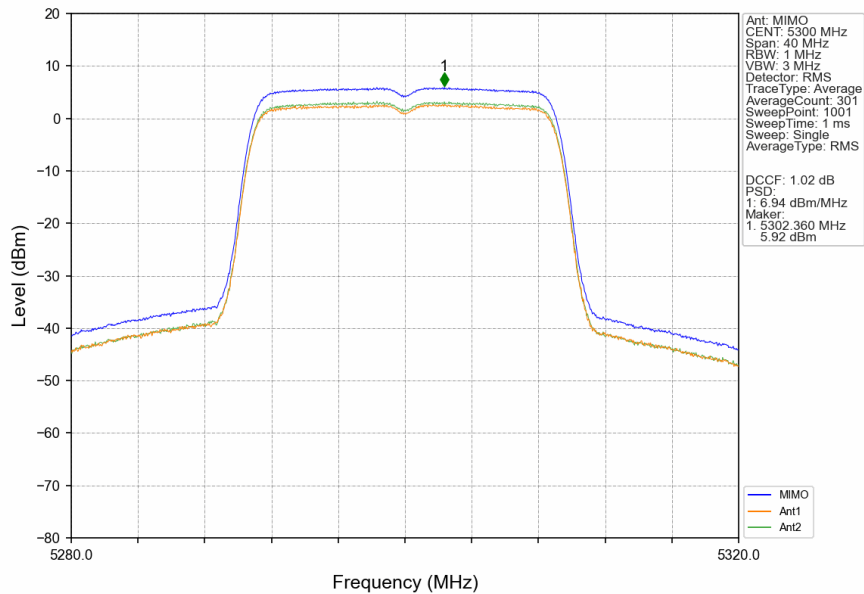
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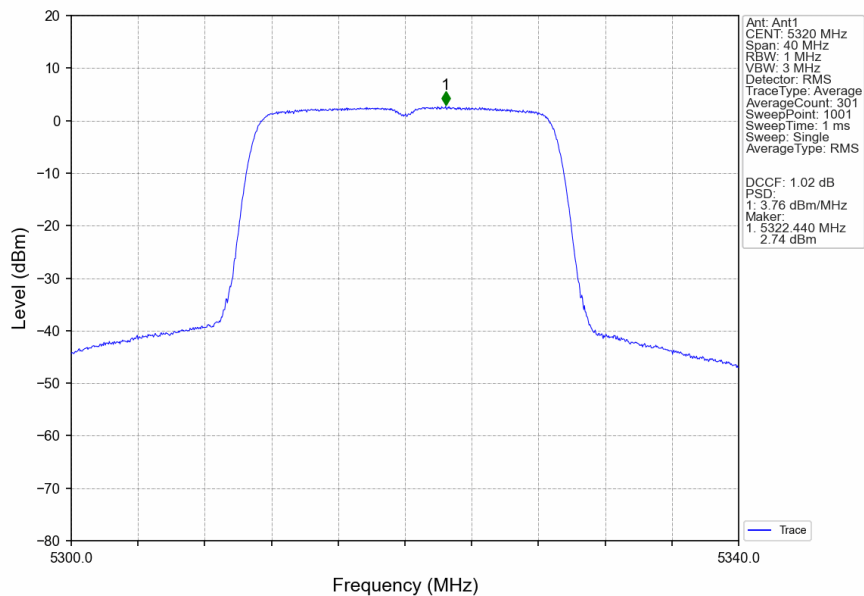
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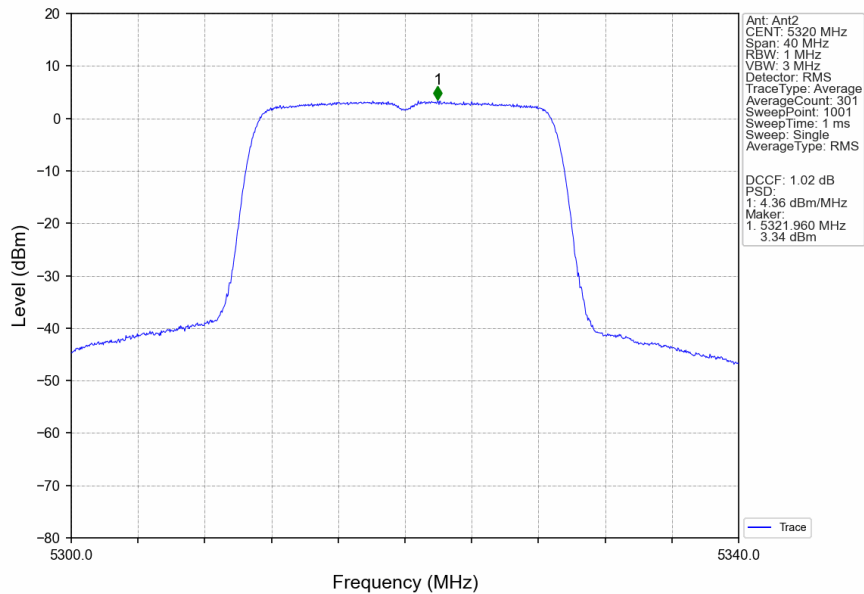
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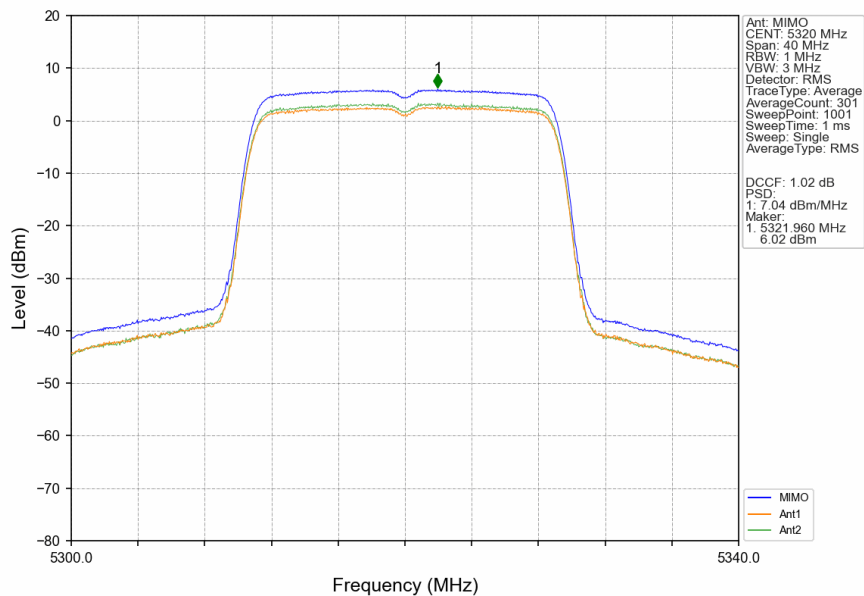
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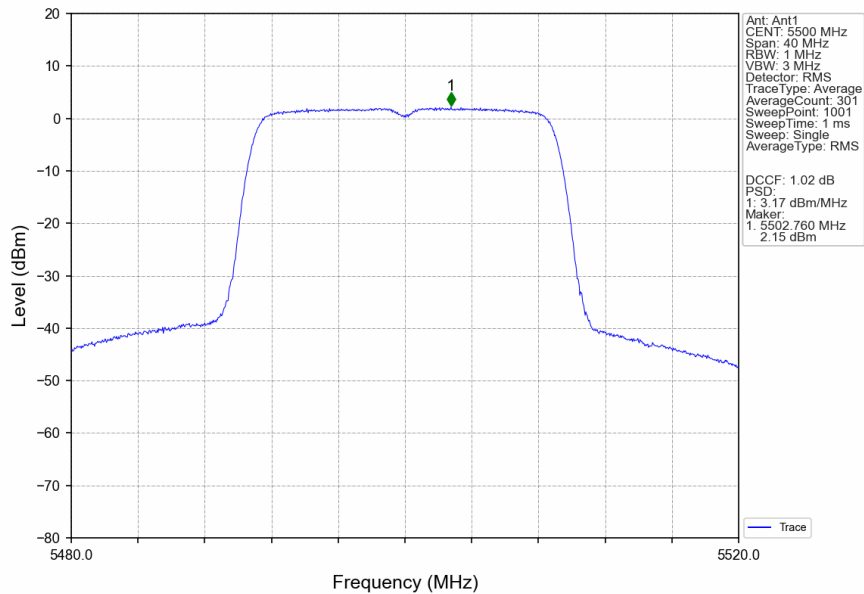
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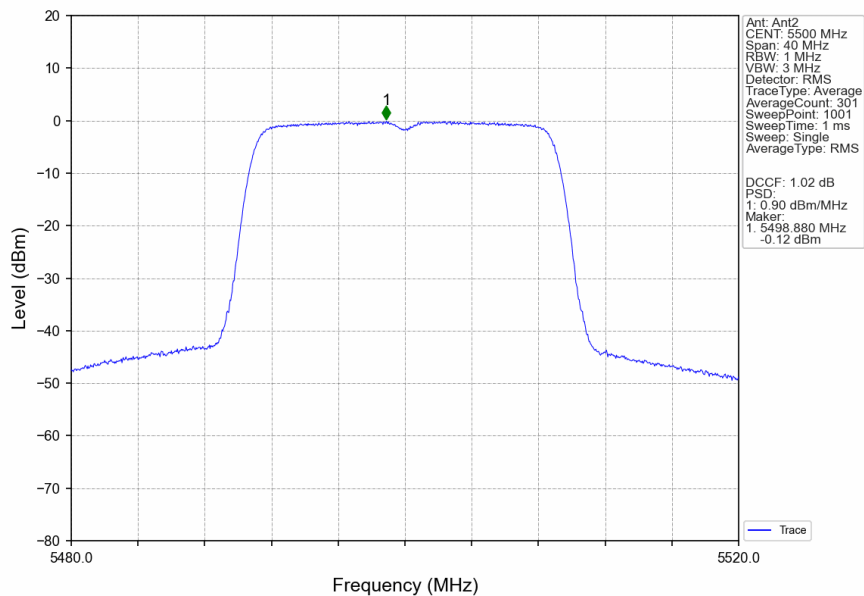
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



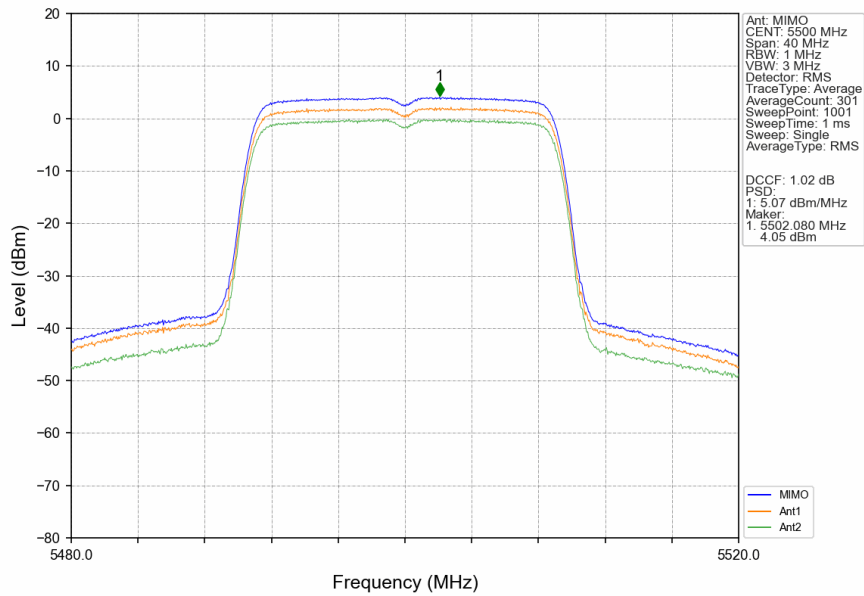
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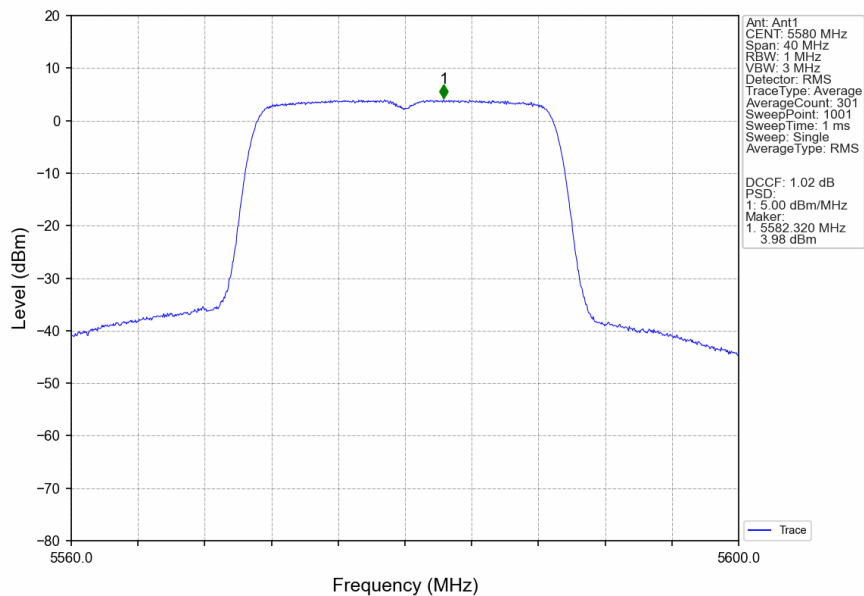
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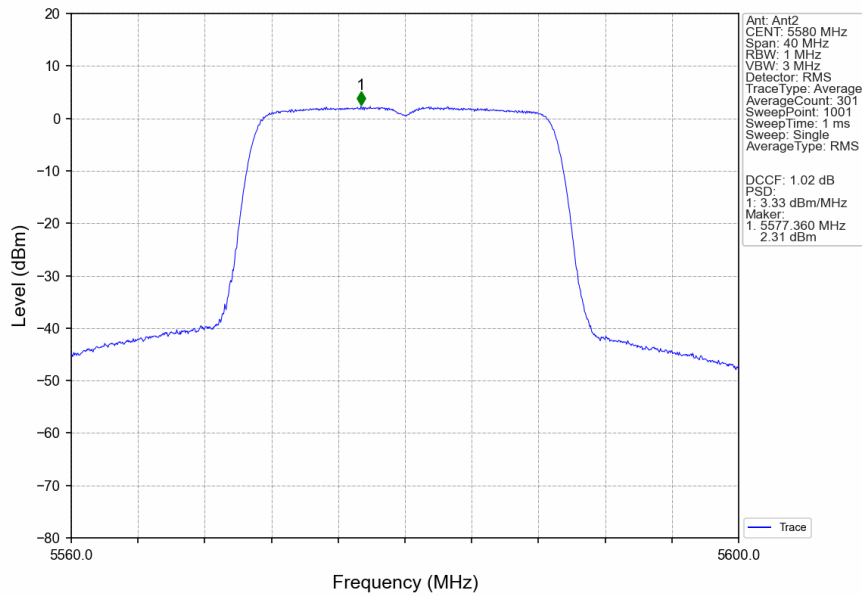
802.11n(HT20)_LCH_5500MHz_MIMO_NTNV



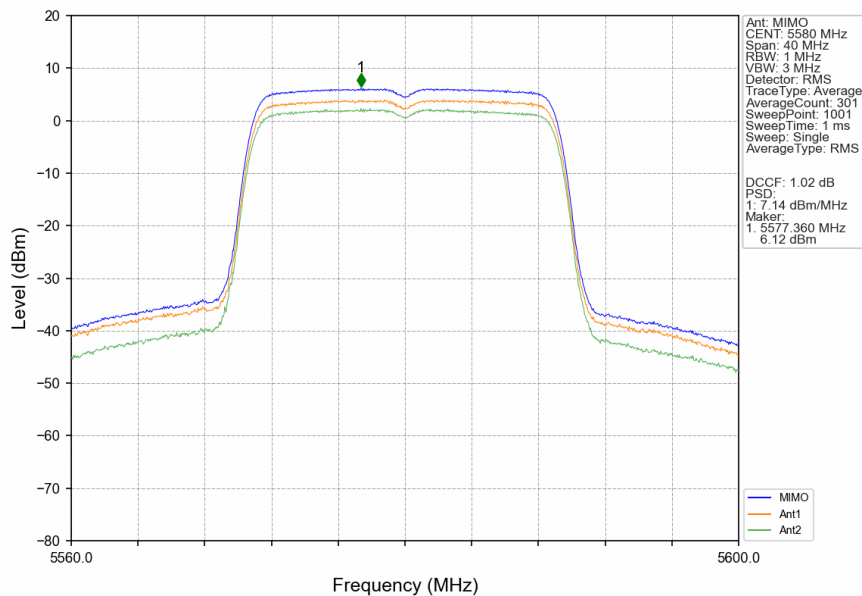
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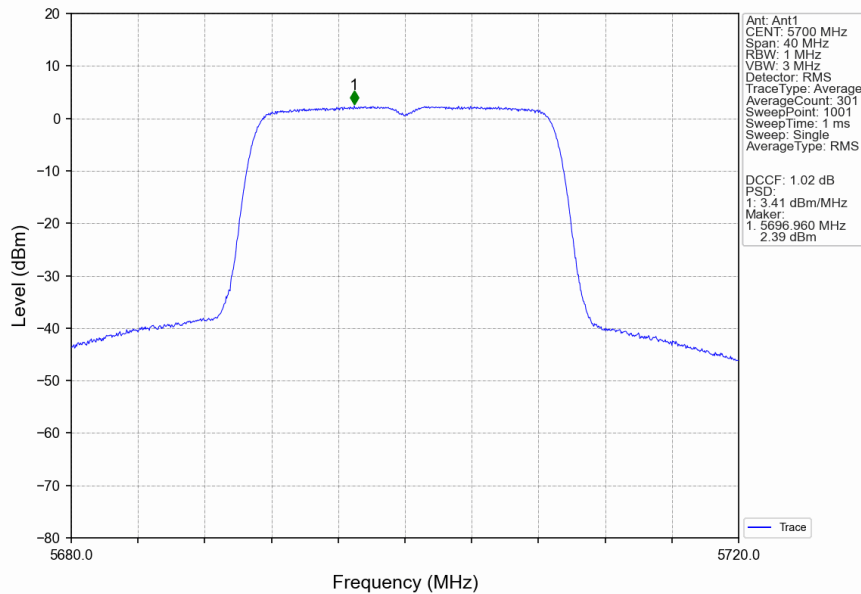
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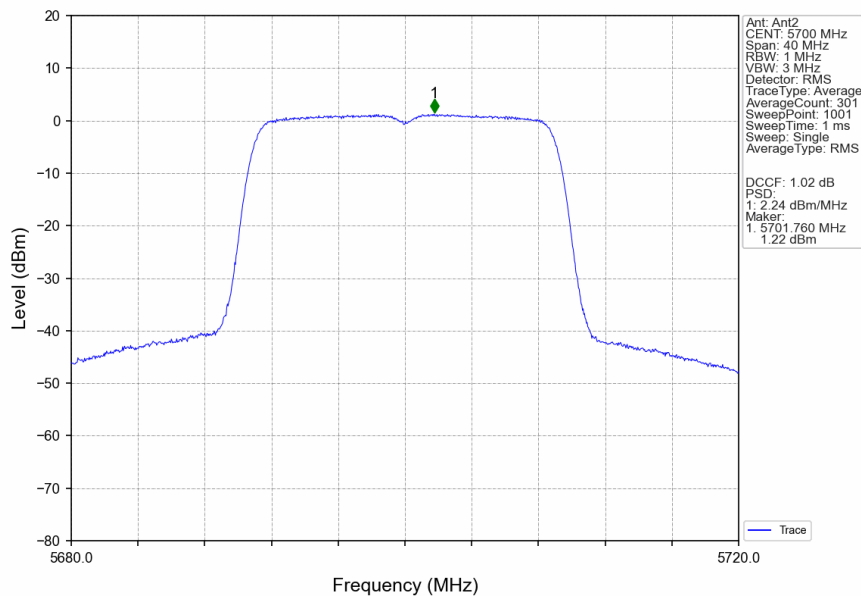
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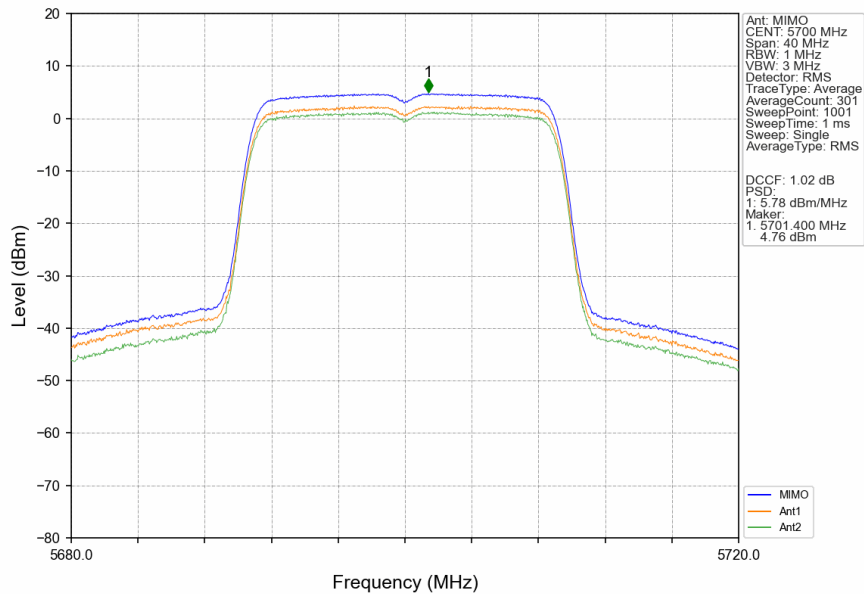
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant2_NTNV



802.11n(HT20)_HCH_5700MHz_MIMO_NTNV



802.11n(HT20)_HCH_5720MHz_Ant1_NTNV

