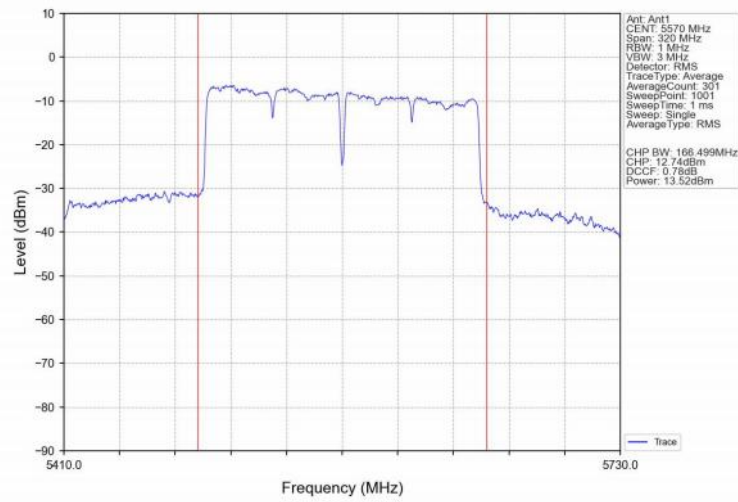
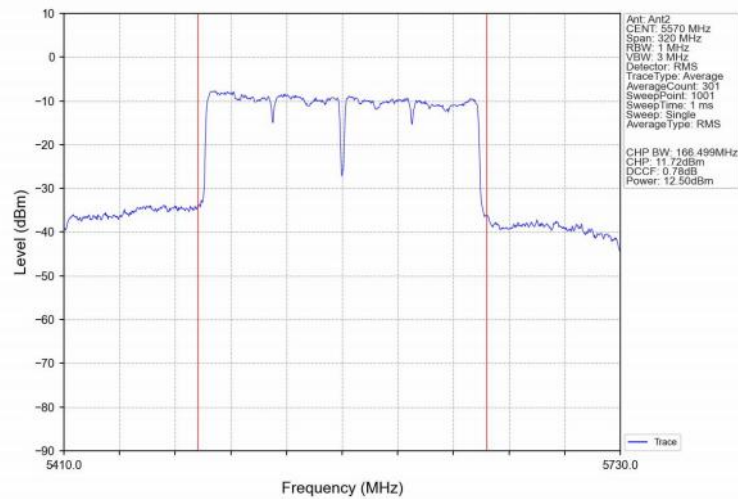


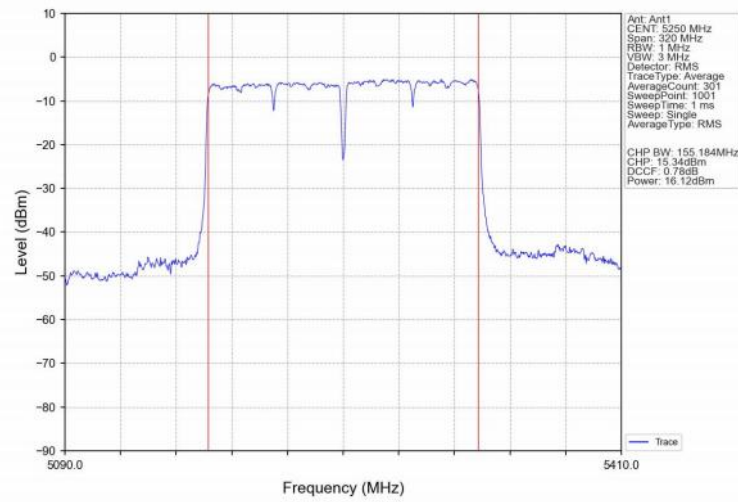
802.11ax(HEW160)_MCH_5570MHz_SU_/_Ant1_NTNV



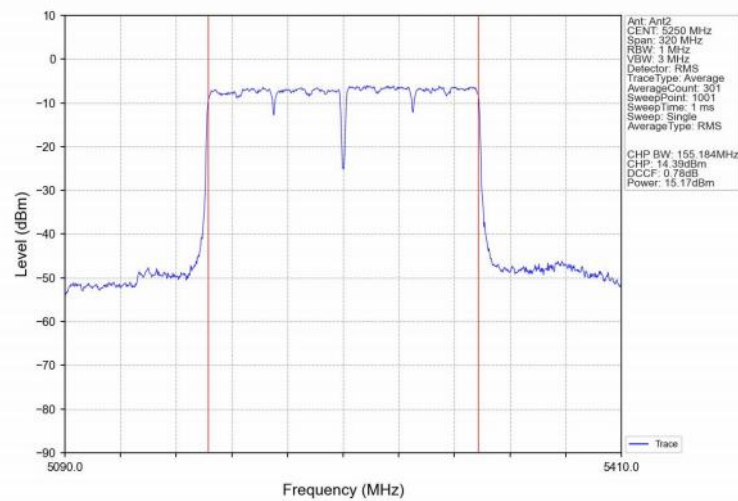
802.11ax(HEW160)_MCH_5570MHz_SU_/_Ant2_NTNV



802.11ax(HEW160)_MCH_5250MHz_SU_/_Ant1_NTNV



802.11ax(HEW160)_MCH_5250MHz_SU_/_Ant2_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	/	/	2.76	1.73	/	<=17	Pass
		5200	/	/	2.91	2.09	/	<=17	Pass
		5240	/	/	3.34	2.14	/	<=17	Pass
		5260	/	/	2.88	3.01	/	<=11	Pass
		5300	/	/	3.49	3.26	/	<=11	Pass
		5320	/	/	3.59	3.63	/	<=11	Pass
		5500	/	/	3.88	3.07	/	<=11	Pass
		5580	/	/	2.16	0.89	/	<=11	Pass
802.11n (HT20)	MIMO	5700	/	/	2.07	1.12	/	<=11	Pass
		5180	/	/	2.01	1.23	4.43	<=17	Pass
		5200	/	/	2.40	1.14	4.66	<=17	Pass
		5240	/	/	2.04	1.12	4.41	<=17	Pass
		5260	/	/	2.81	2.82	5.64	<=11	Pass
		5300	/	/	2.94	3.01	5.88	<=11	Pass
		5320	/	/	3.66	3.54	6.49	<=11	Pass
		5500	/	/	3.84	3.06	6.38	<=11	Pass
802.11n (HT40)	MIMO	5580	/	/	1.96	0.78	4.34	<=11	Pass
		5700	/	/	2.01	0.81	4.23	<=11	Pass
		5190	/	/	0.05	-0.45	2.68	<=17	Pass
		5230	/	/	0.27	0.08	3.03	<=17	Pass
		5270	/	/	0.24	0.24	3.19	<=11	Pass
		5310	/	/	0.91	0.35	3.41	<=11	Pass
		5510	/	/	0.96	-0.52	3.20	<=11	Pass
		5550	/	/	0.16	-1.92	2.21	<=11	Pass
802.11ac (VHT20)	MIMO	5670	/	/	-1.28	-2.81	0.79	<=11	Pass
		5180	/	/	2.35	1.01	4.66	<=17	Pass
		5200	/	/	1.98	1.07	4.38	<=17	Pass
		5240	/	/	1.83	0.73	4.29	<=17	Pass
		5260	/	/	2.80	2.55	5.58	<=11	Pass
		5300	/	/	3.21	3.32	6.22	<=11	Pass
		5320	/	/	3.73	3.54	6.64	<=11	Pass
		5500	/	/	4.09	2.99	6.39	<=11	Pass
802.11ac (VHT40)	MIMO	5580	/	/	2.20	0.86	4.49	<=11	Pass
		5700	/	/	1.84	1.03	4.31	<=11	Pass
		5190	/	/	0.91	0.43	3.50	<=17	Pass
		5230	/	/	0.95	0.22	3.58	<=17	Pass
		5270	/	/	0.59	0.05	3.22	<=11	Pass
		5310	/	/	0.58	-0.13	3.20	<=11	Pass
		5510	/	/	0.65	-0.84	2.85	<=11	Pass
		5550	/	/	-0.19	-2.04	1.89	<=11	Pass
802.11ac (VHT80)	MIMO	5670	/	/	-1.13	-2.15	1.11	<=11	Pass
		5210	/	/	-1.97	-2.59	0.68	<=17	Pass
		5290	/	/	-2.23	-2.76	0.37	<=11	Pass
		5530	/	/	-2.71	-4.38	-0.54	<=11	Pass
		5610	/	/	-5.00	-6.04	-2.58	<=11	Pass
		5570	/	/	-6.11	-7.12	-3.70	<=11	Pass
		5250	/	/	-4.41	-5.05	-1.75	<=17	Pass
		5180	SU	/	1.90	0.94	4.34	<=17	Pass

(HEW20)		5200	SU	/	2.00	0.93	4.39	<=17	Pass
		5240	SU	/	1.89	0.97	4.30	<=17	Pass
		5260	SU	/	3.22	3.01	5.98	<=11	Pass
		5300	SU	/	3.28	3.00	6.15	<=11	Pass
		5320	SU	/	3.63	3.28	6.36	<=11	Pass
		5500	SU	/	2.92	2.06	5.40	<=11	Pass
		5580	SU	/	2.24	0.62	4.39	<=11	Pass
		5700	SU	/	0.98	0.18	3.44	<=11	Pass
802.11ax (HEW40)	MIMO	5190	SU	/	1.05	0.35	3.56	<=17	Pass
		5230	SU	/	1.08	0.60	3.84	<=17	Pass
		5270	SU	/	0.71	0.30	3.49	<=11	Pass
		5310	SU	/	0.74	-0.13	3.29	<=11	Pass
		5510	SU	/	0.64	-0.65	2.97	<=11	Pass
		5550	SU	/	0.07	-1.81	2.11	<=11	Pass
802.11ax (HEW80)	MIMO	5670	SU	/	-1.07	-2.36	1.24	<=11	Pass
		5210	SU	/	-1.63	-2.12	0.99	<=17	Pass
		5290	SU	/	-1.90	-2.51	0.63	<=11	Pass
		5530	SU	/	-2.70	-3.78	-0.34	<=11	Pass
802.11ax (HEW160)	MIMO	5610	SU	/	-1.31	-2.39	1.19	<=11	Pass
		5570	SU	/	-5.60	-6.76	-3.43	<=11	Pass
		5250	SU	/	-4.41	-5.25	-1.80	<=17	Pass

Note1: Antenna Gain:

- Band: 2A Ant1: 3.74dBi;
- Band: 2C Ant1: 3.74dBi;
- Band: 1 Ant1: 3.74dBi;
- Band: 3 Ant1: 3.74dBi;
- Band: 1+2A Ant1: 3.74dBi;
- Band: 1 Ant2: 3.74dBi;
- Band: 3 Ant2: 3.74dBi;
- Band: 1+2A Ant2: 3.74dBi;
- Band: 2A Ant2: 3.74dBi;
- Band: 2C Ant2: 3.74dBi;

Note2: Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)

4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	/	/	-1.66	-1.95	/	<=30	Pass
		5785	/	/	-3.27	-3.42	/	<=30	Pass
		5825	/	/	-3.33	-3.30	/	<=30	Pass
802.11n (HT20)	MIMO	5745	/	/	-1.55	-1.92	1.19	<=30	Pass
		5785	/	/	-3.14	-3.14	-0.38	<=30	Pass
		5825	/	/	-3.26	-3.05	-0.22	<=30	Pass
802.11n (HT40)	MIMO	5755	/	/	-4.36	-5.12	-1.86	<=30	Pass
		5795	/	/	-5.76	-5.94	-3.13	<=30	Pass
802.11ac (VHT20)	MIMO	5745	/	/	-2.45	-2.86	0.21	<=30	Pass
		5785	/	/	-3.97	-4.02	-1.17	<=30	Pass
		5825	/	/	-3.91	-3.55	-0.84	<=30	Pass
802.11ac (VHT40)	MIMO	5755	/	/	-4.80	-5.40	-2.11	<=30	Pass
		5795	/	/	-6.46	-6.56	-3.63	<=30	Pass
802.11ac (VHT80)	MIMO	5775	/	/	-8.13	-8.98	-5.72	<=30	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	-2.23	-2.74	0.53	<=30	Pass
		5785	SU	/	-3.95	-3.97	-0.95	<=30	Pass
		5825	SU	/	-3.89	-3.75	-0.92	<=30	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	-4.39	-5.07	-1.74	<=30	Pass
		5795	SU	/	-5.93	-6.08	-3.10	<=30	Pass

802.11ax (HEW80)	MIMO	5775	SU	/	-7.57	-8.55	-5.20	<=30	Pass
Note1: Antenna Gain: - Band: 2C Ant1: 3.74dBi; - Band: 1 Ant1: 3.74dBi; - Band: 3 Ant1: 3.74dBi; - Band: 1+2A Ant1: 3.74dBi; - Band: 2A Ant1: 3.74dBi; - Band: 1 Ant2: 3.74dBi; - Band: 3 Ant2: 3.74dBi; - Band: 1+2A Ant2: 3.74dBi; - Band: 2A Ant2: 3.74dBi; - Band: 2C Ant2: 3.74dBi; Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)									

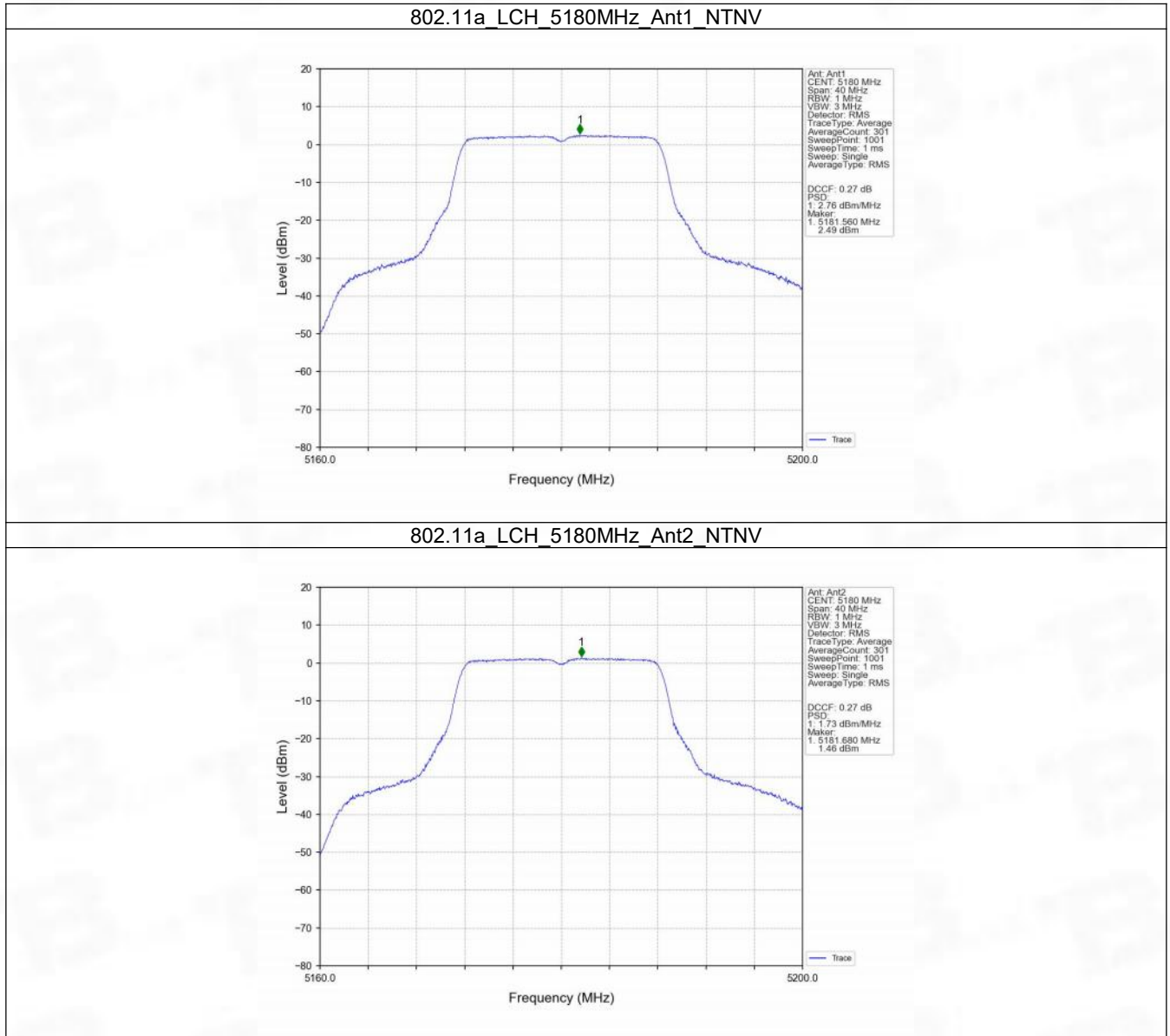
Note: $RB\ Factor = 10 \cdot \log(500KHz/300KHz) = 2.22$

Duty Factor = $10 \cdot \log(100\%/Duty\ Cycle)$

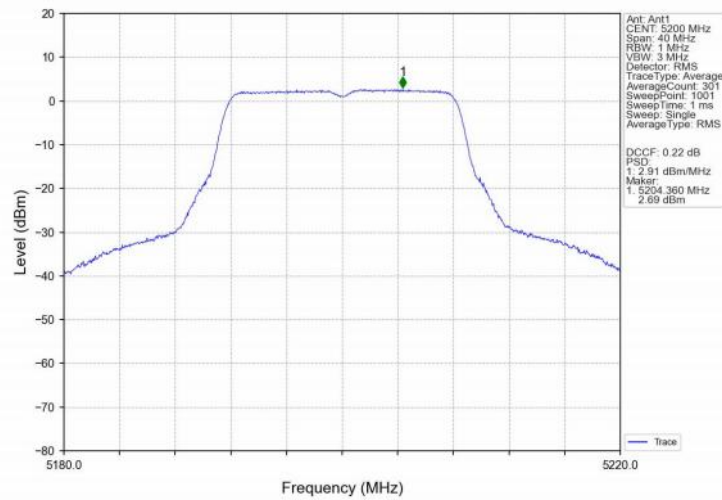
Maximum PSD (dBm/500KHz) = Measured value

4.2 Test Graph

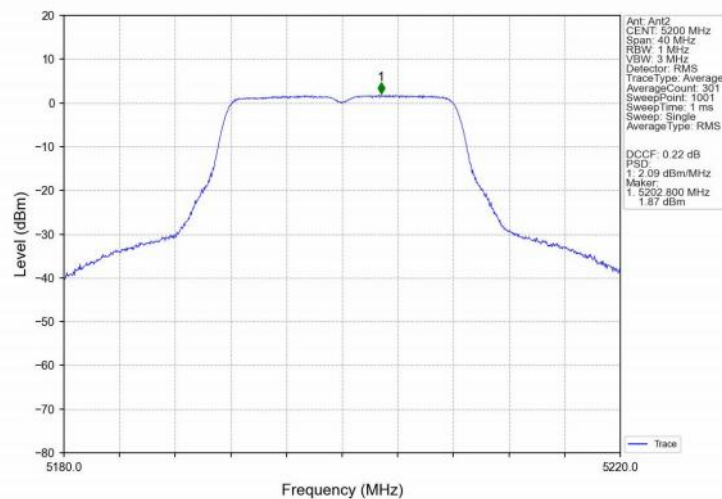
4.2.1 PSD



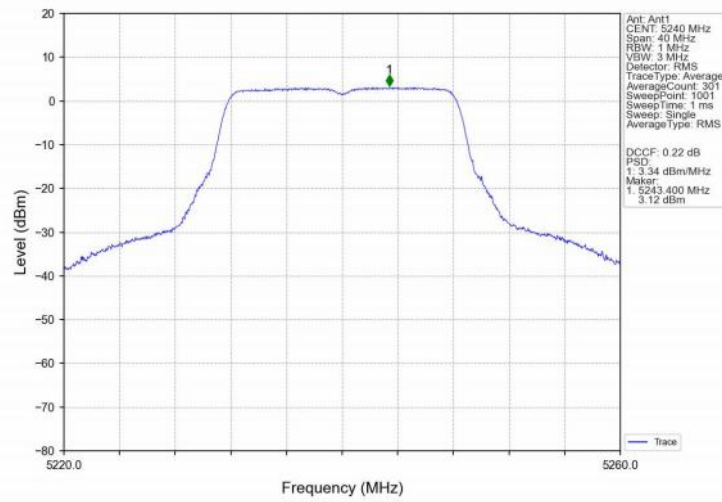
802.11a_MCH_5200MHz_Ant1_NTNV



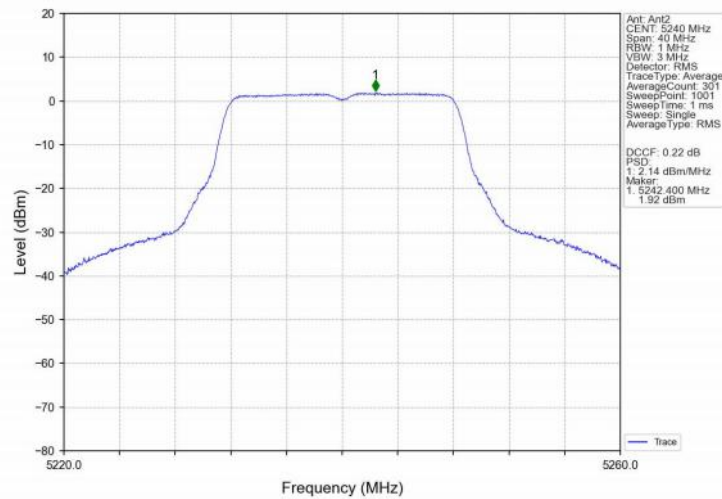
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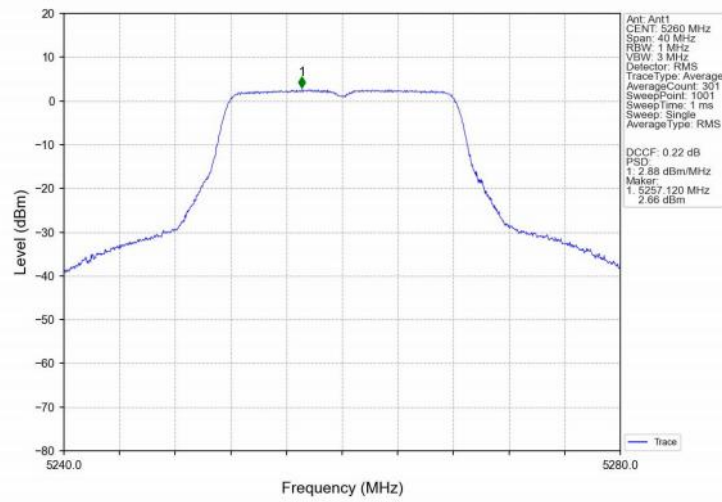
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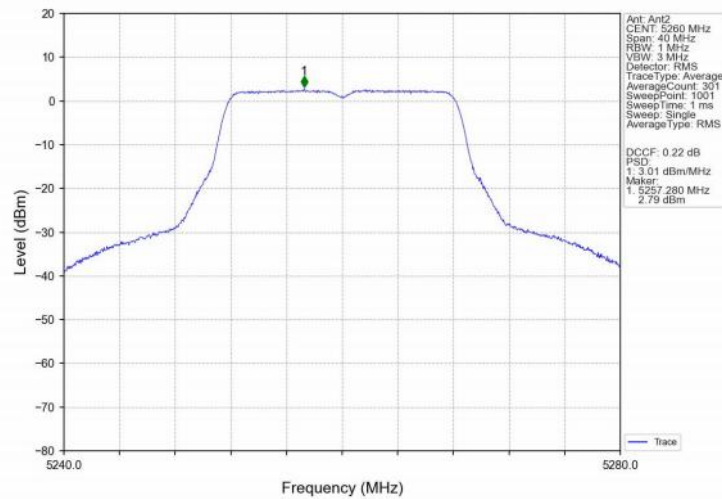
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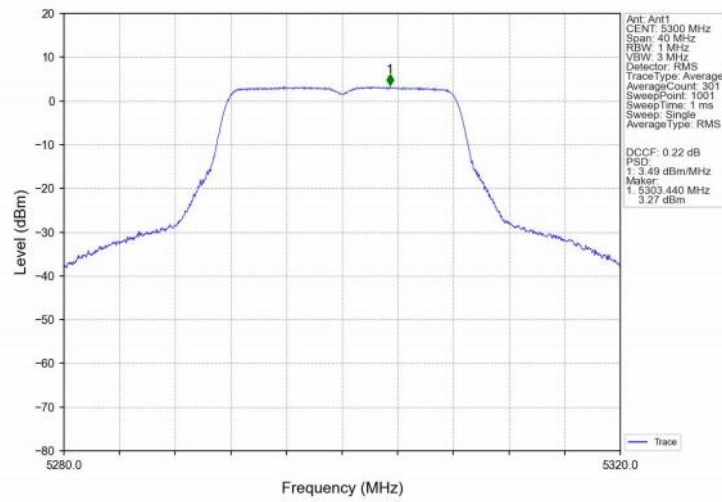
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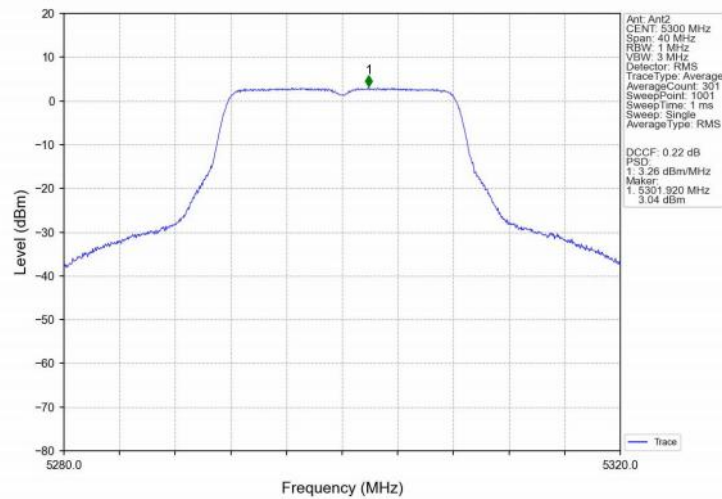
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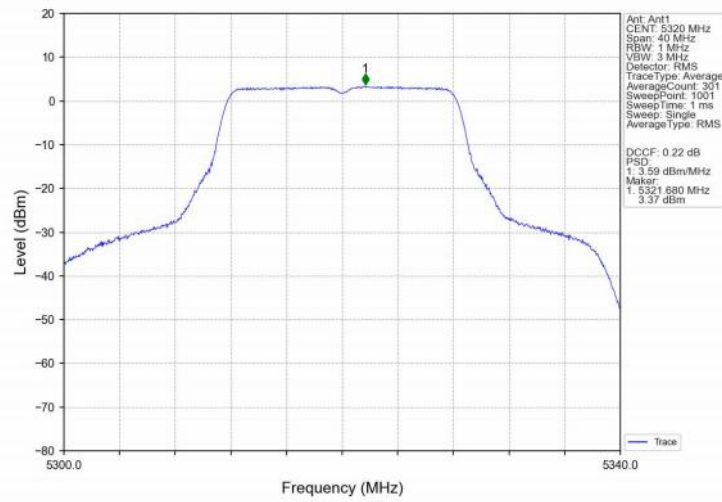
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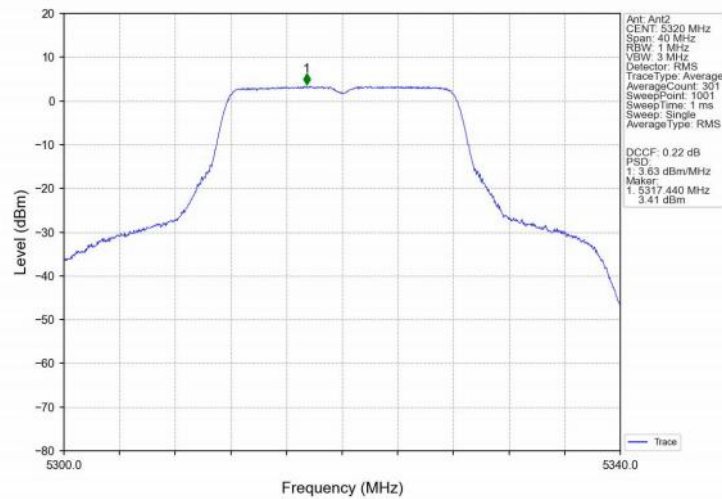
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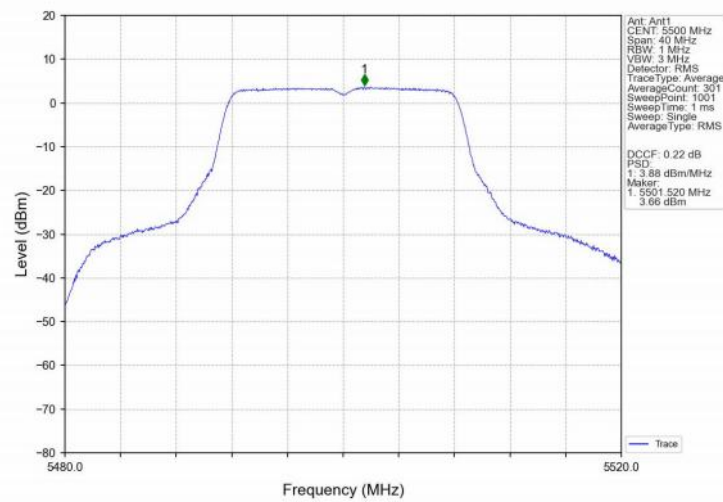
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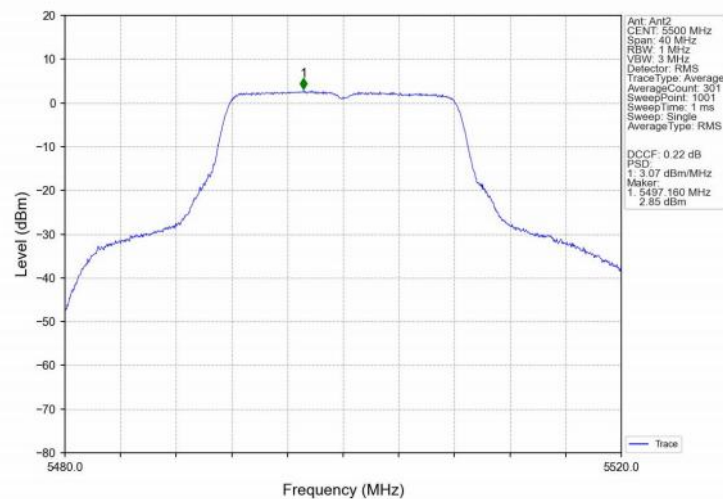
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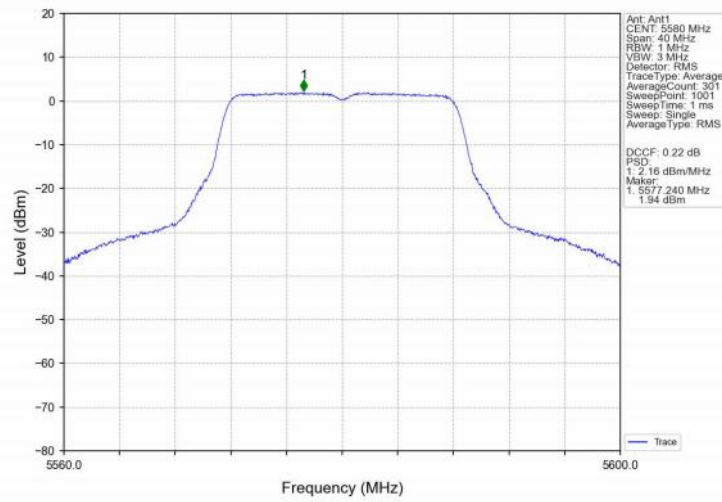
802.11a_LCH_5500MHz_Ant1_NTNV



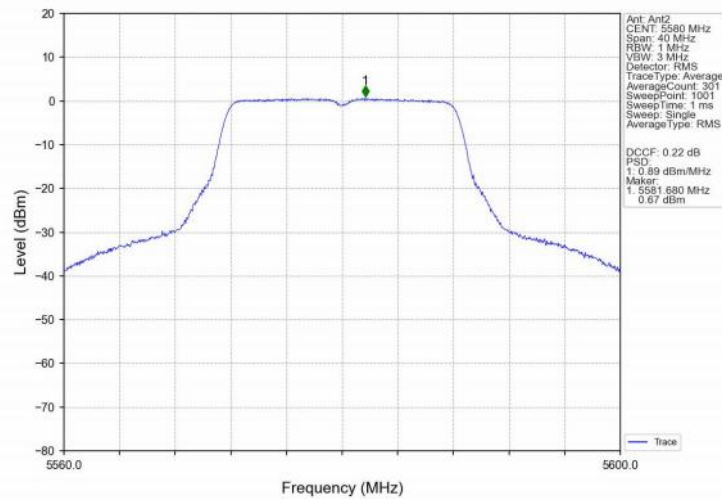
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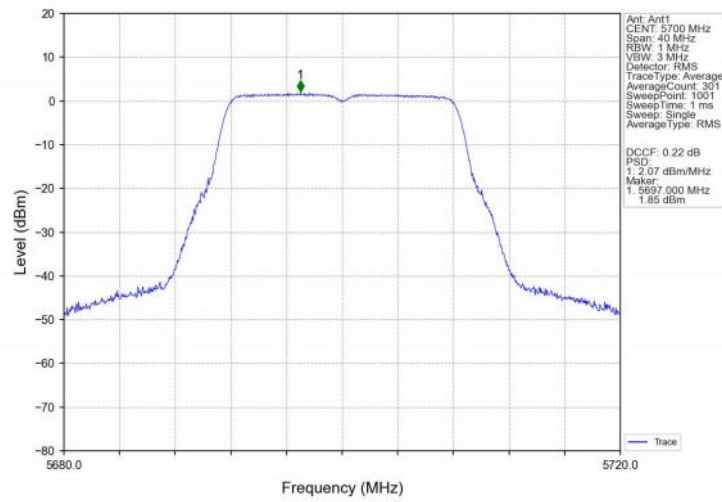
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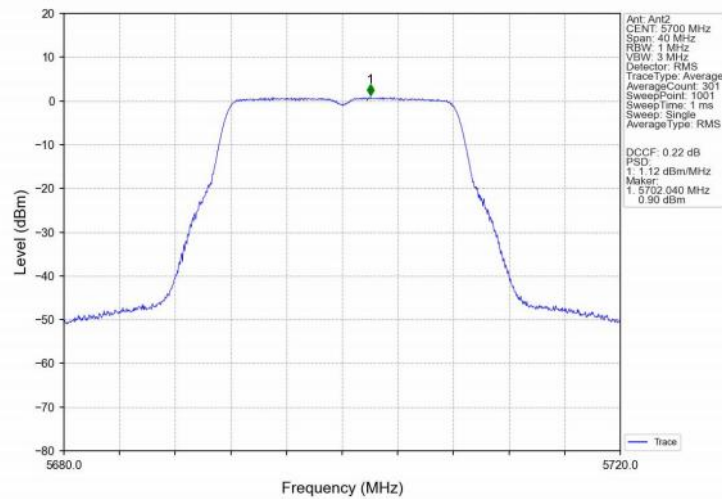
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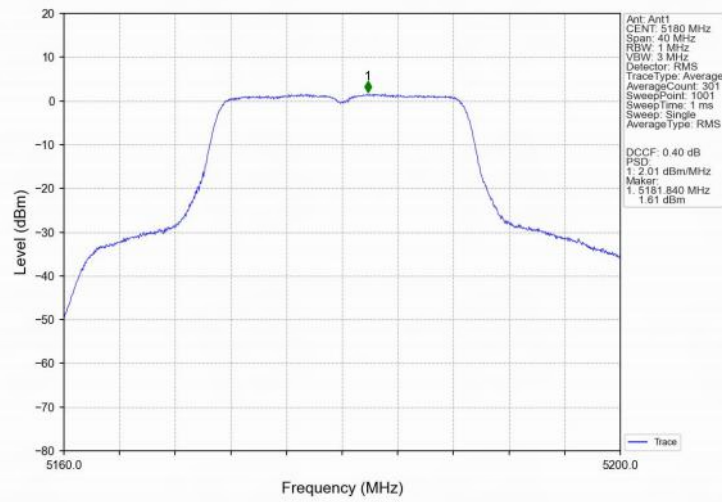
802.11a_HCH_5700MHz_Ant1_NTNV



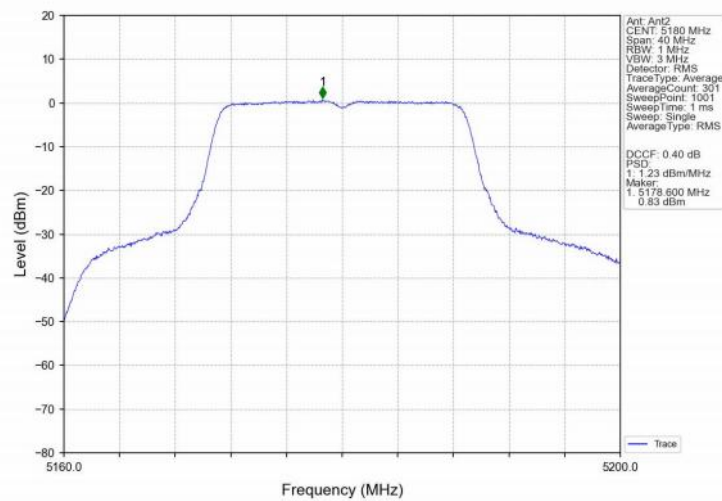
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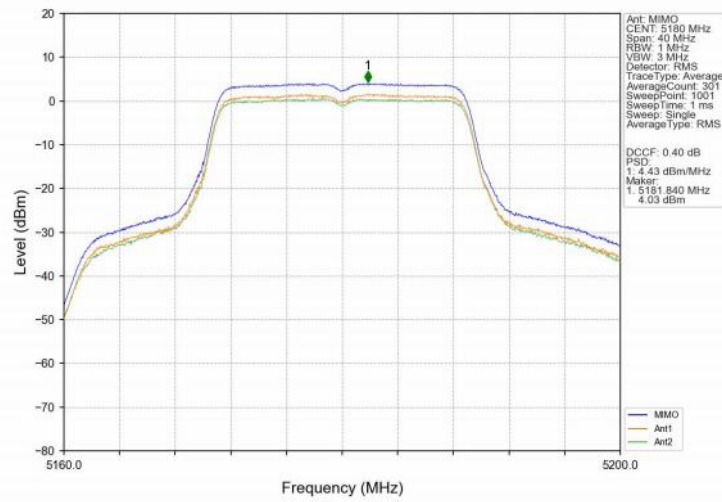
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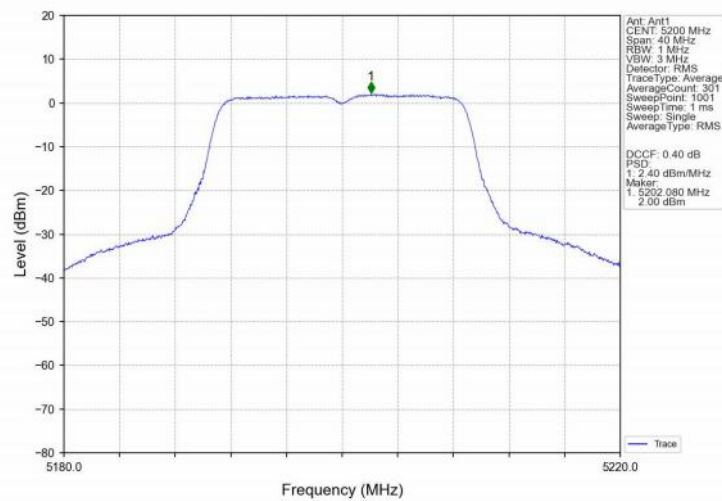
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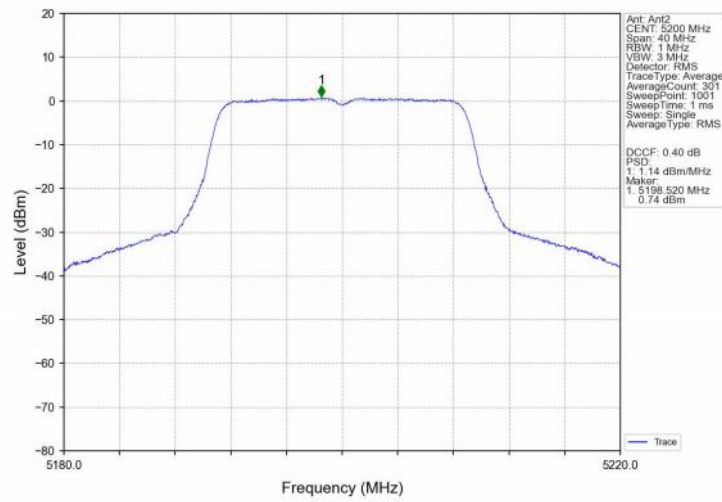
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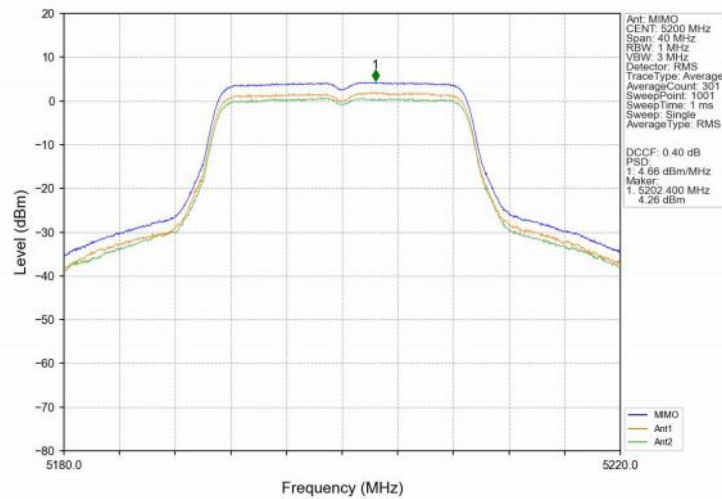
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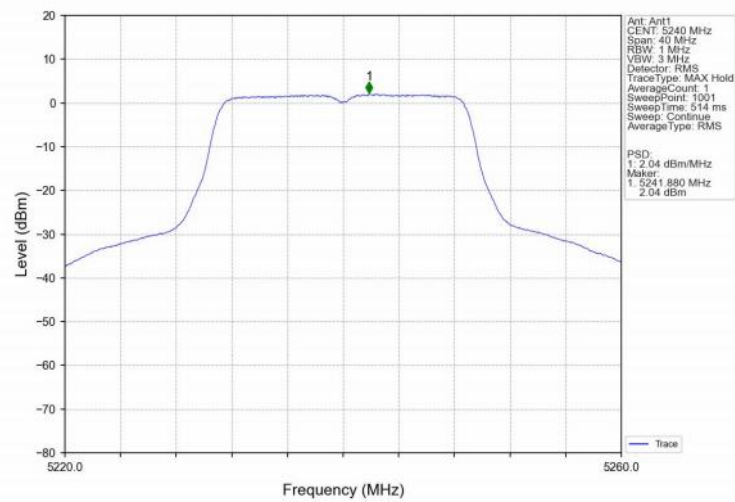
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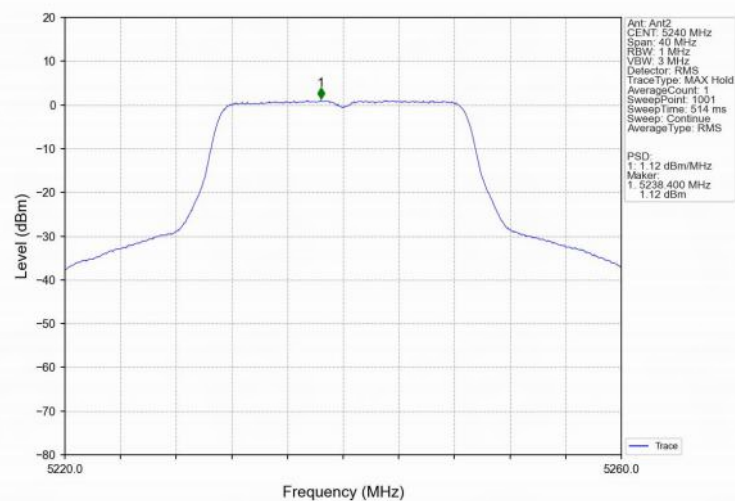
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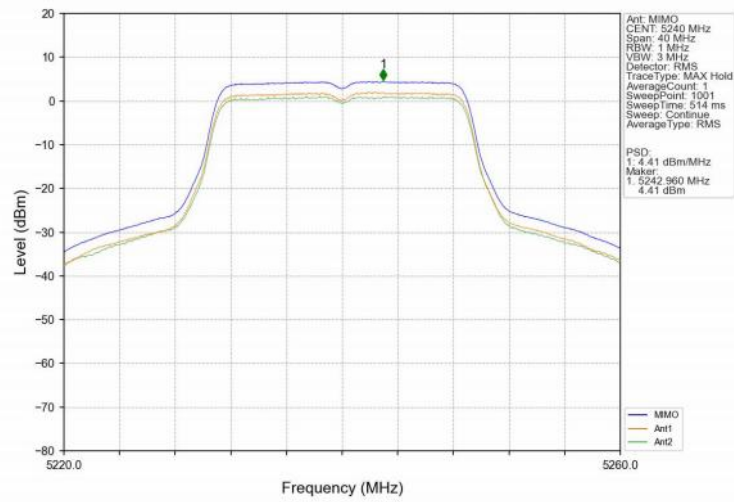
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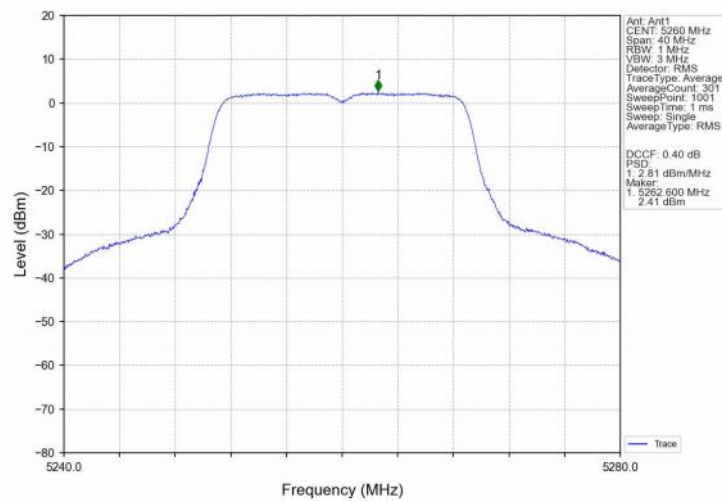
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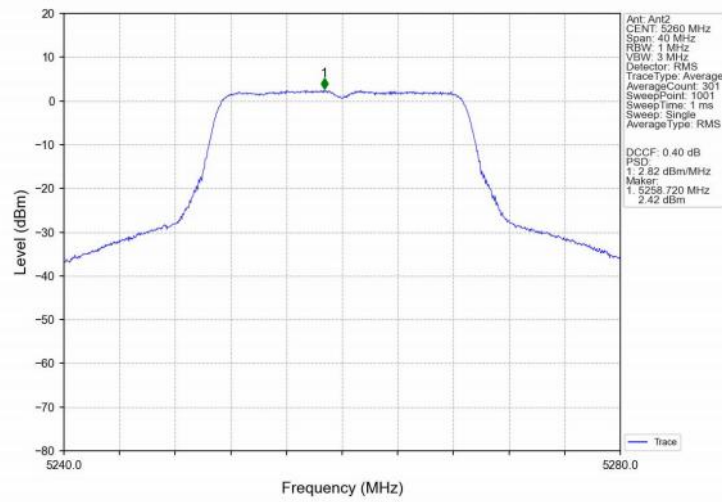
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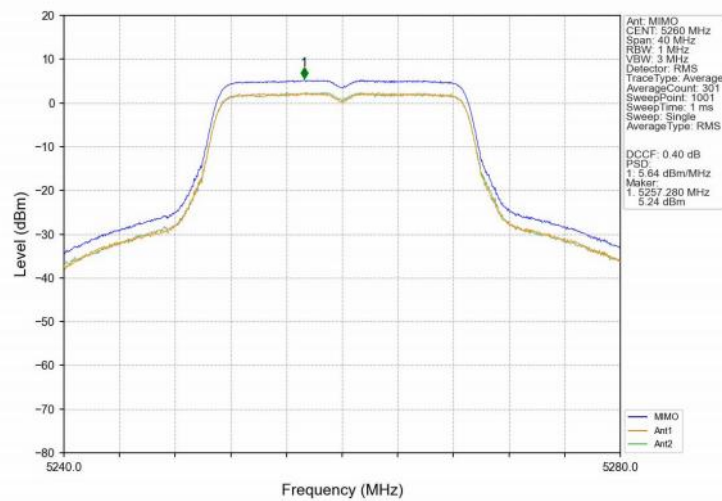
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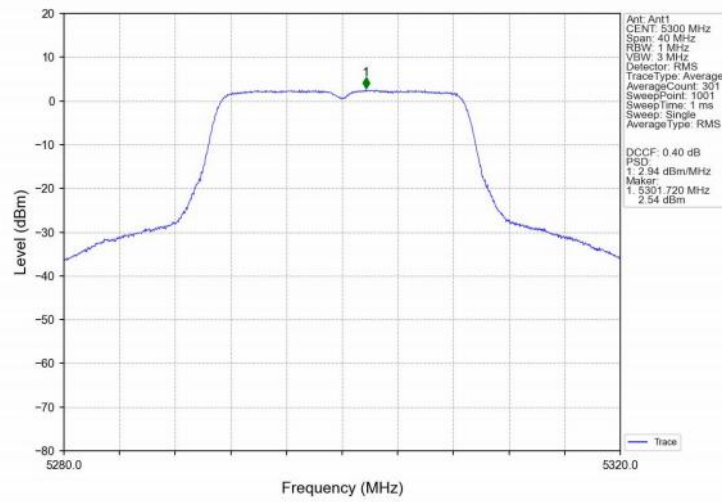
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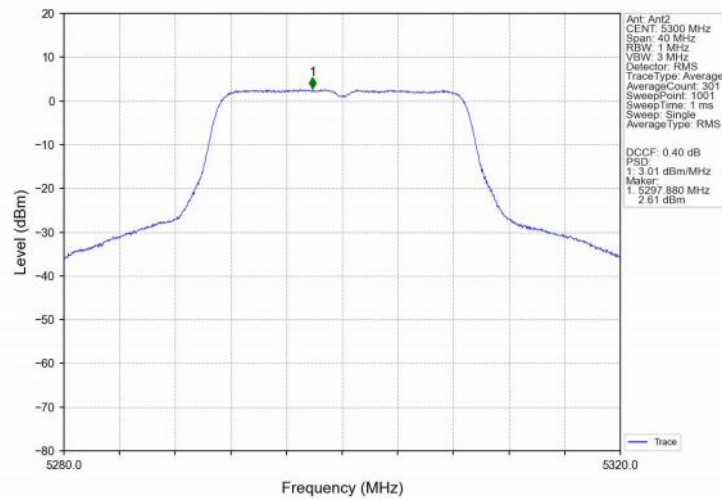
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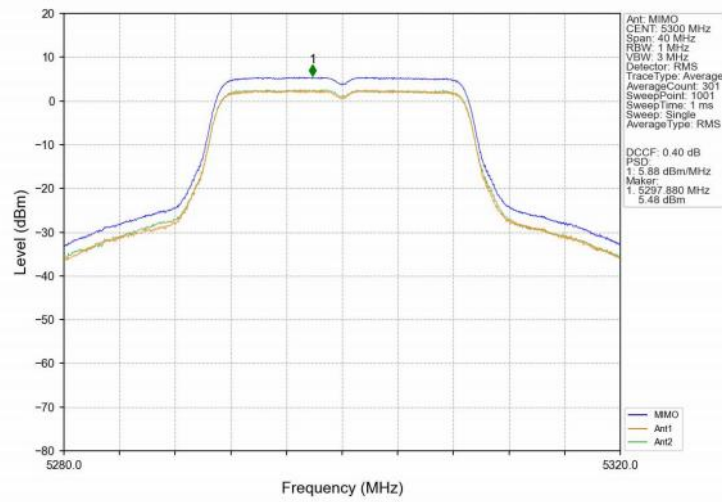
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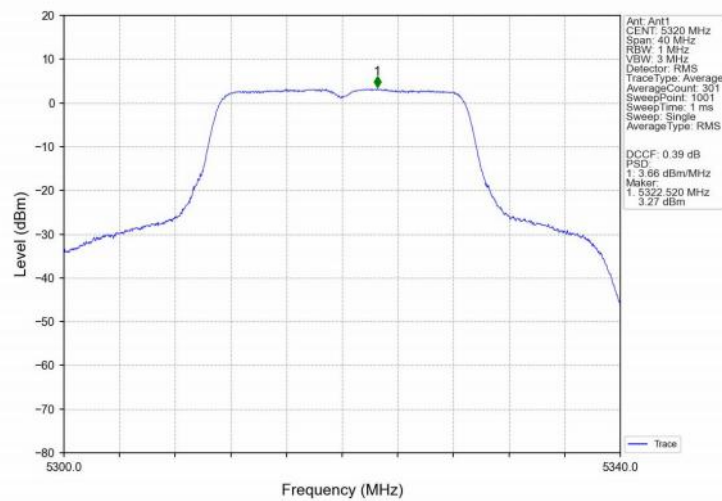
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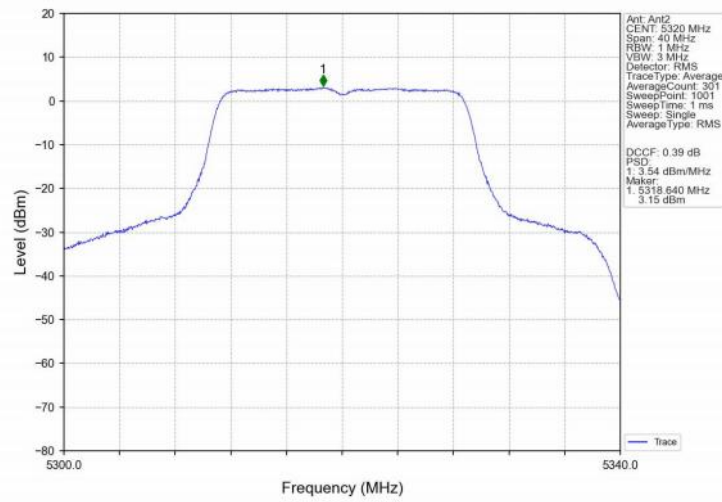
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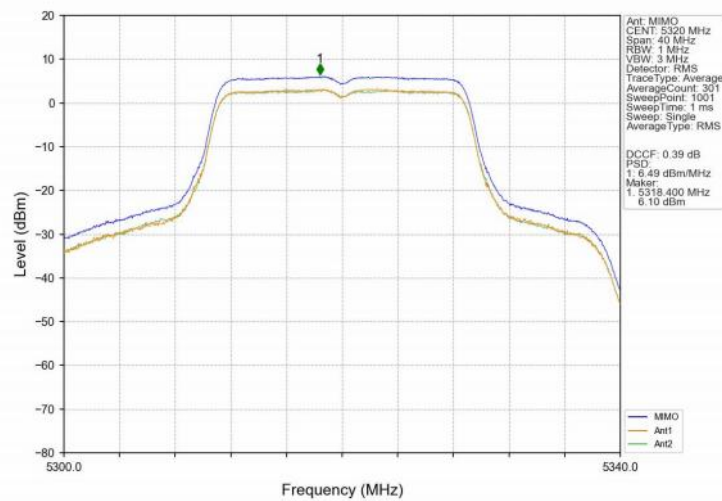
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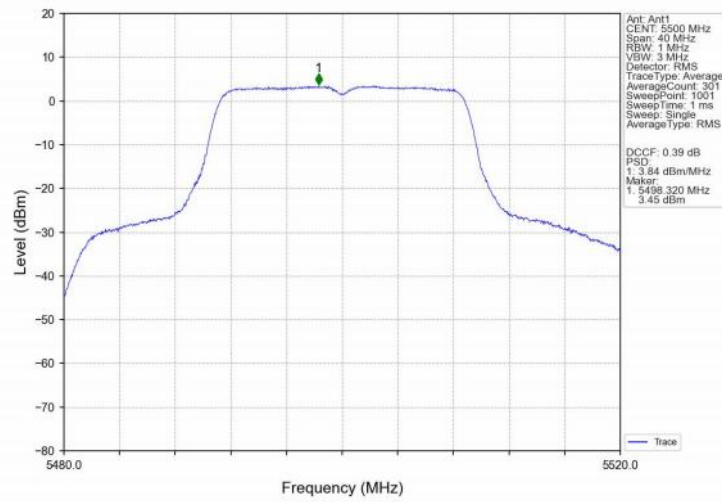
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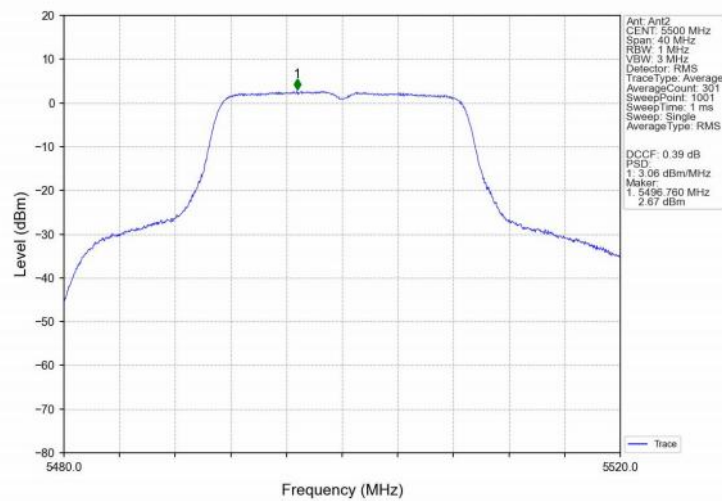
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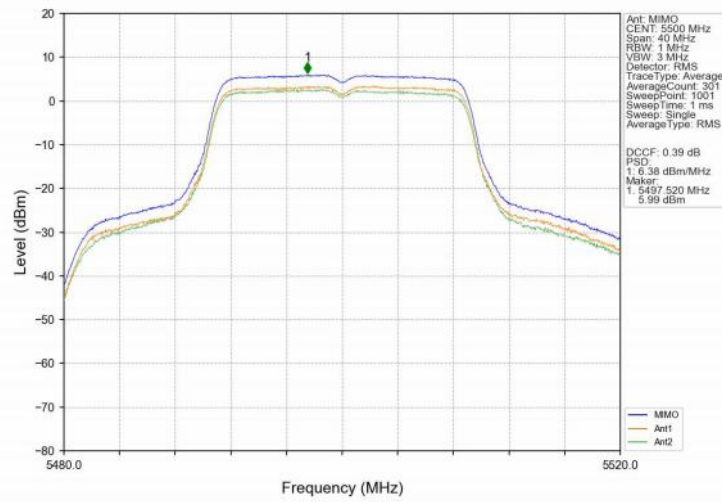
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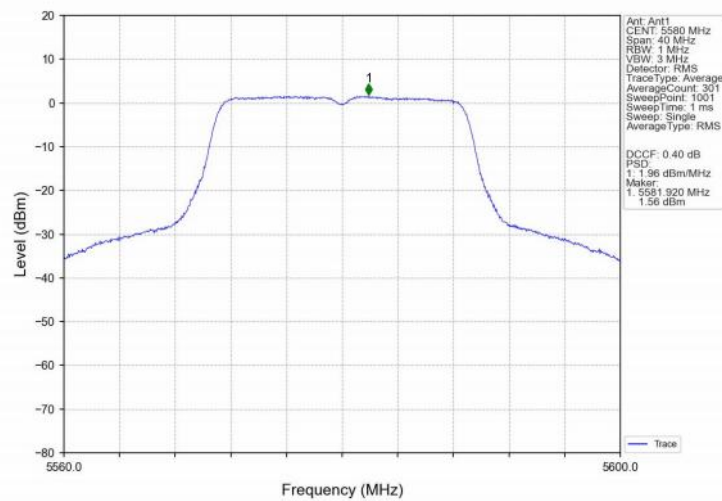
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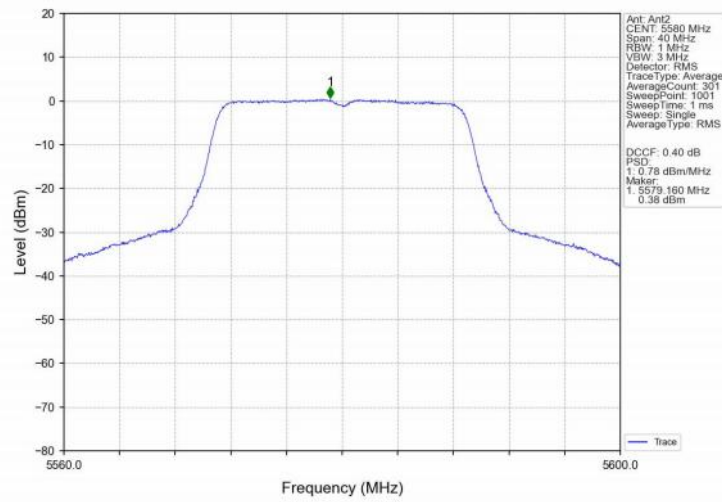
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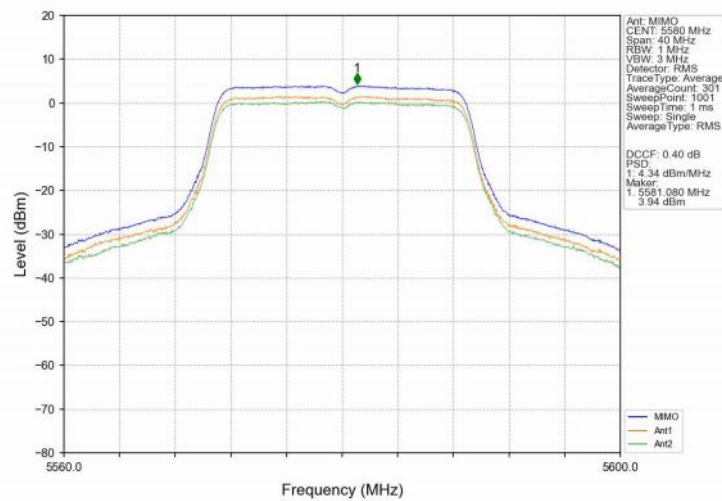
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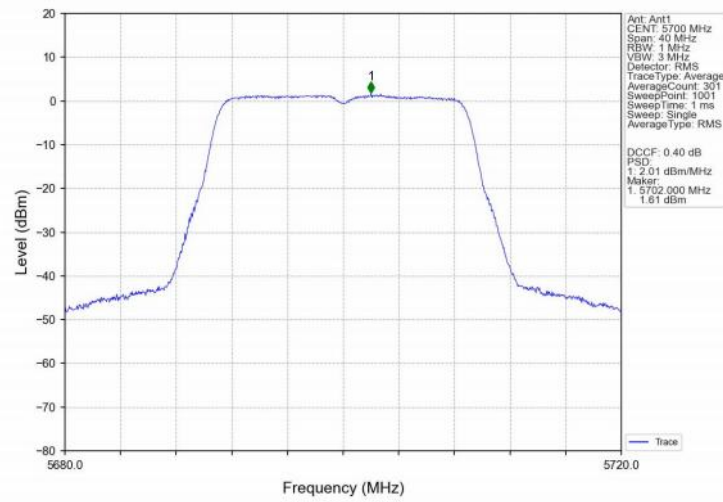
802.11n(HT20)_MCH_5580MHz_Ant2_NTNV



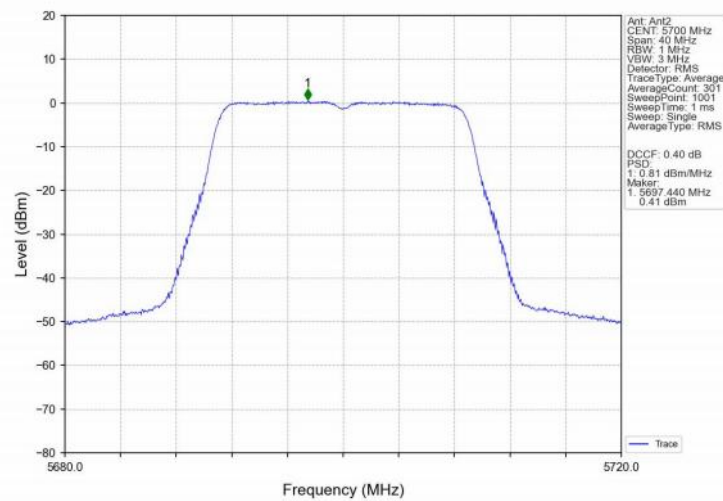
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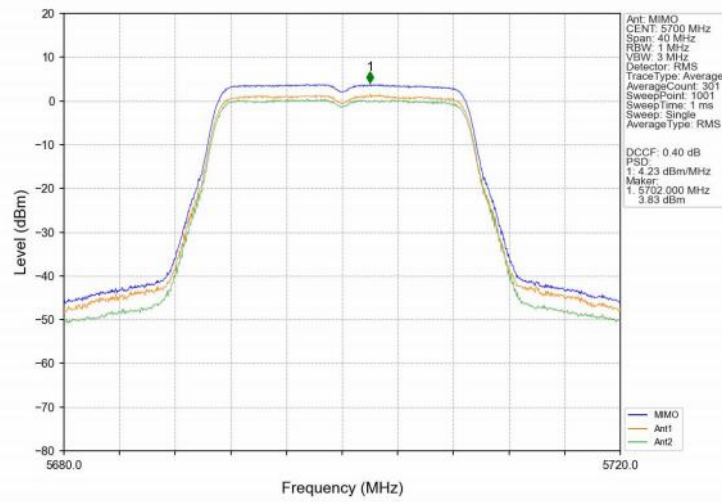
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



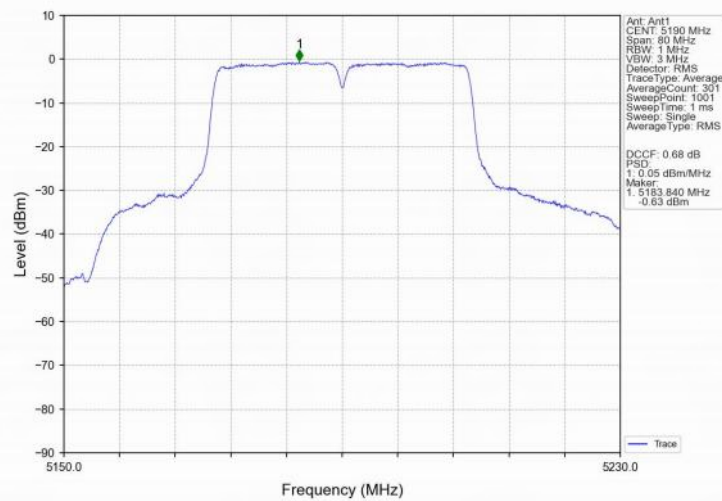
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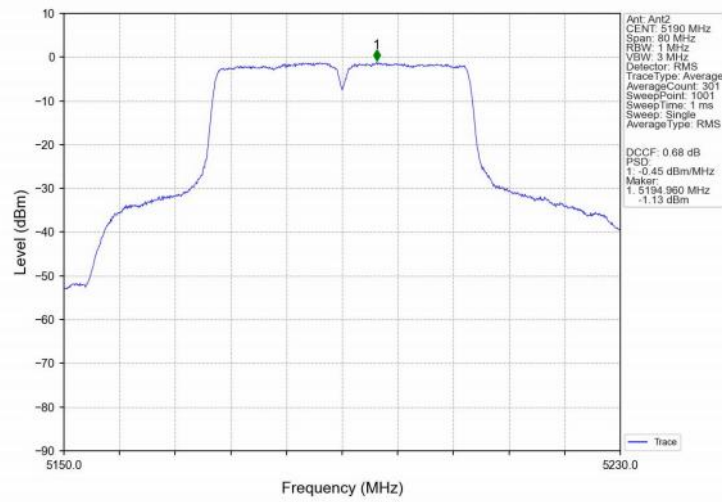
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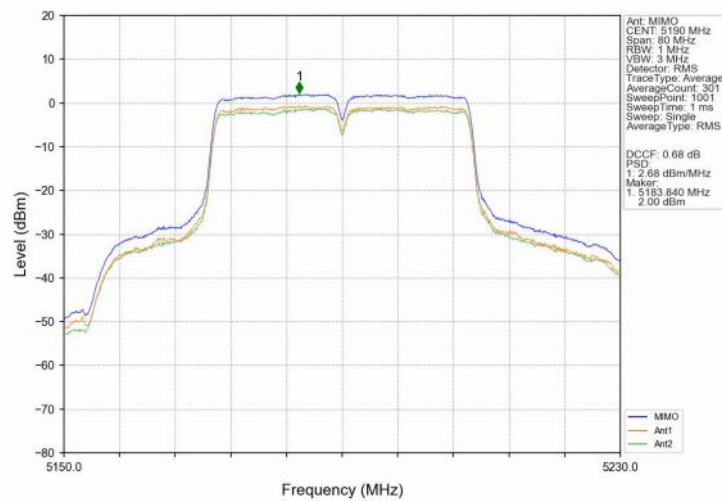
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



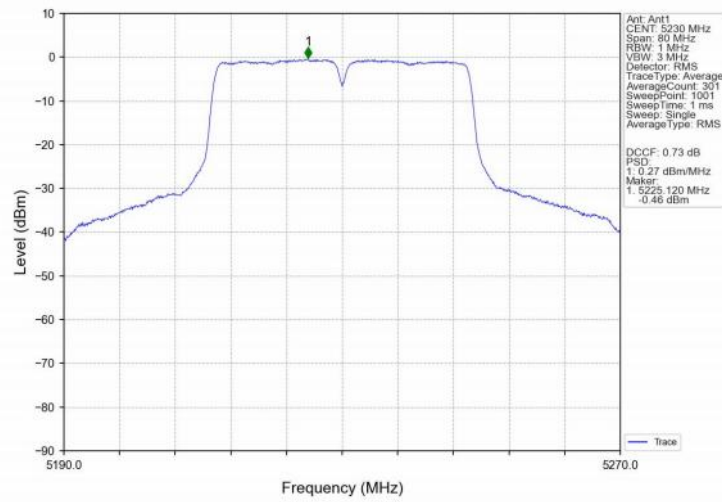
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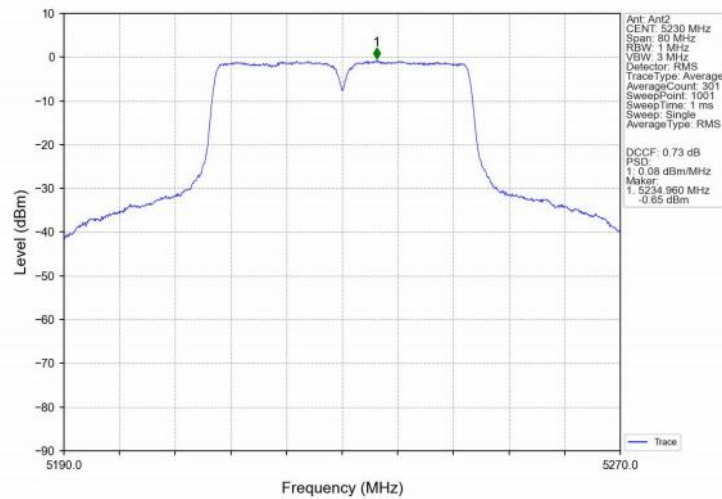
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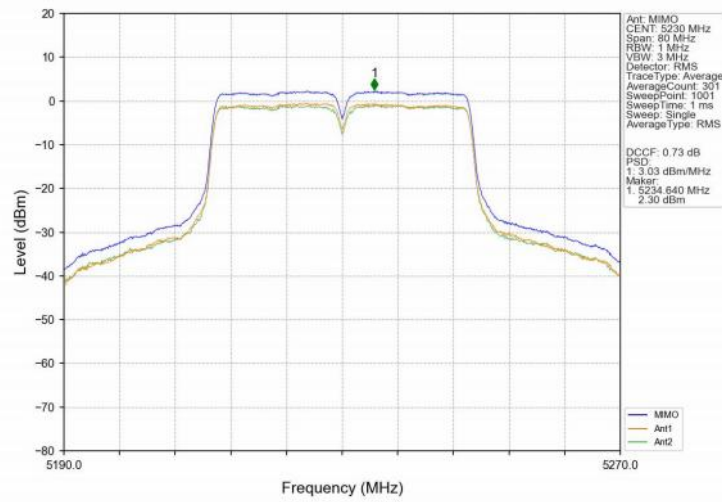
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



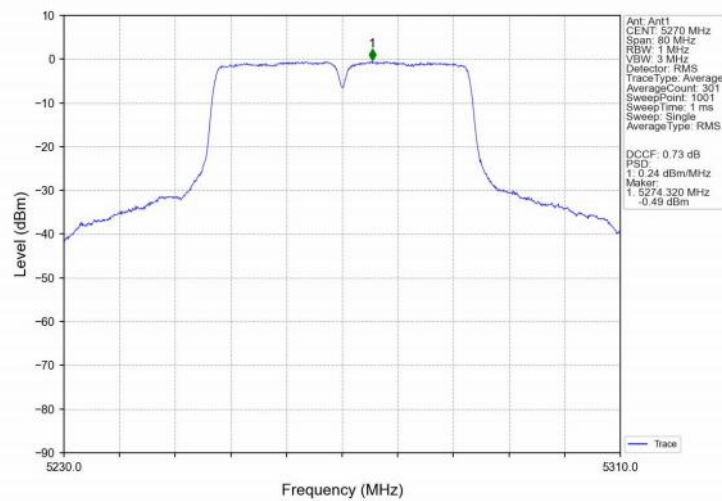
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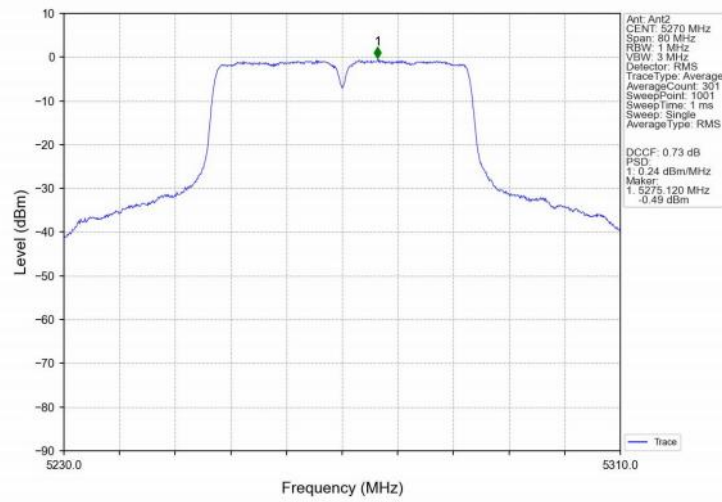
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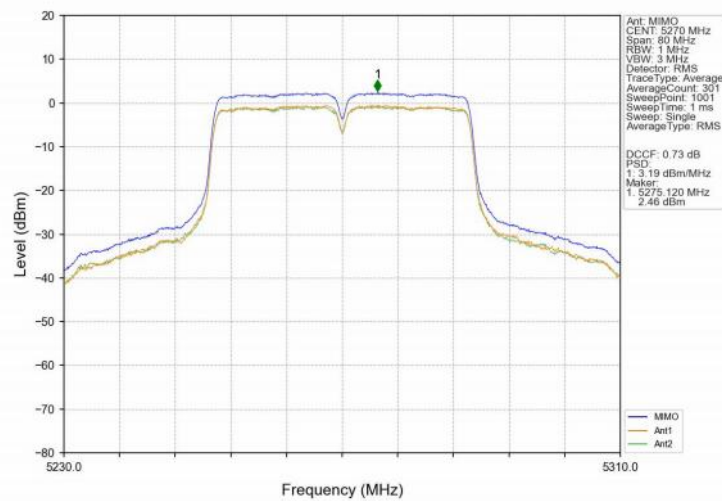
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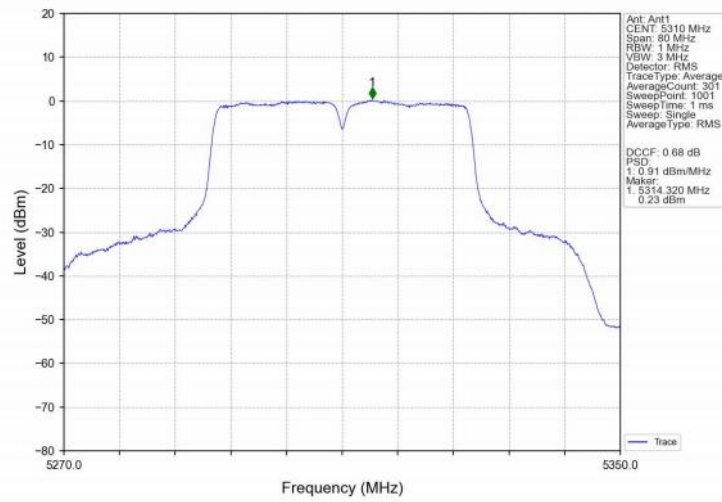
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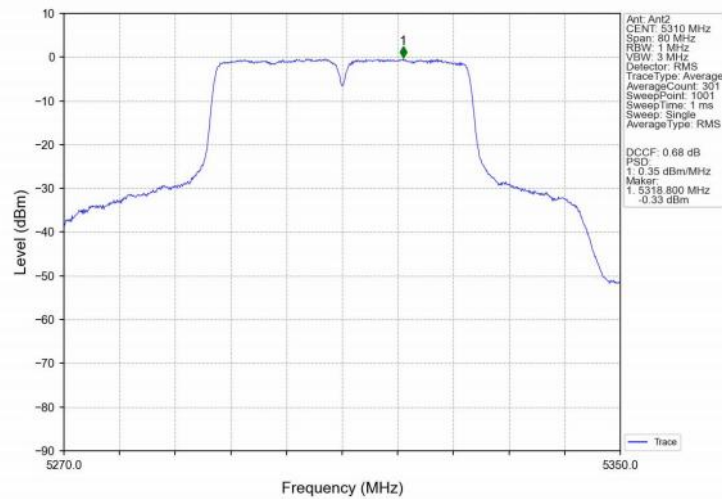
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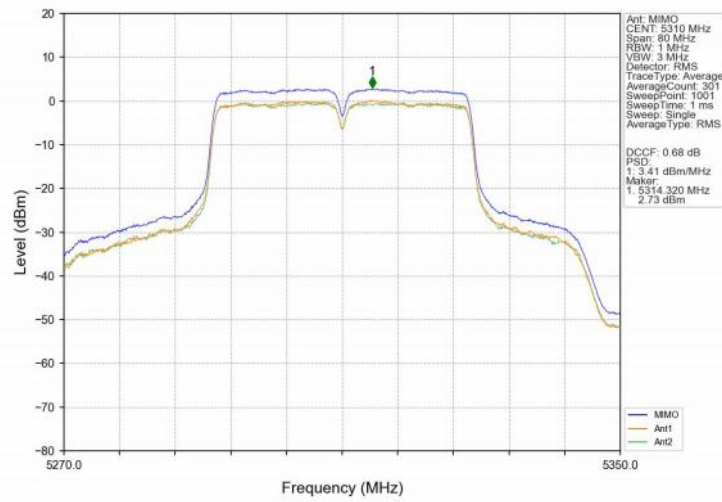
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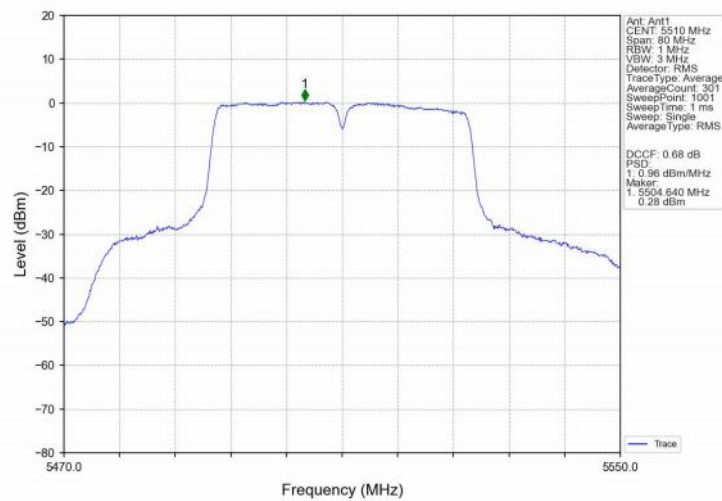
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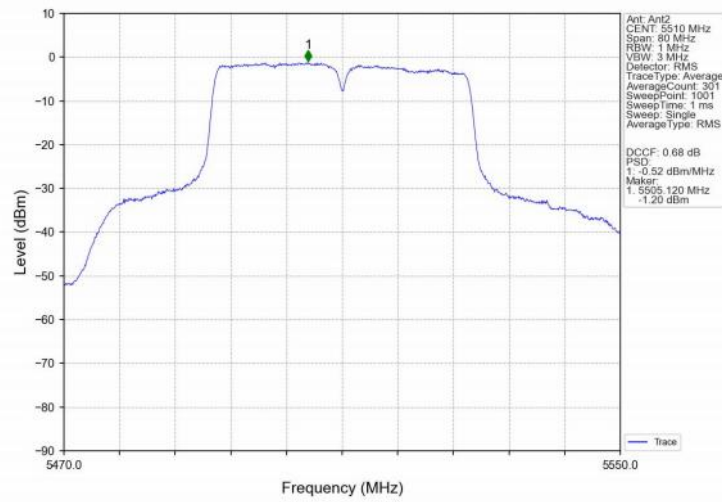
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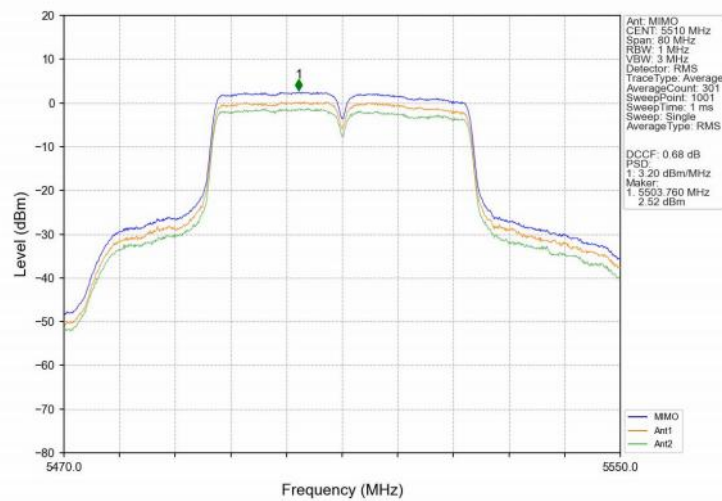
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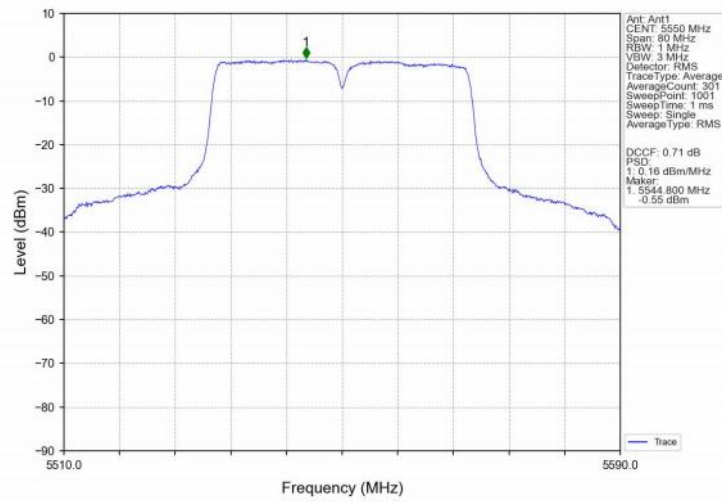
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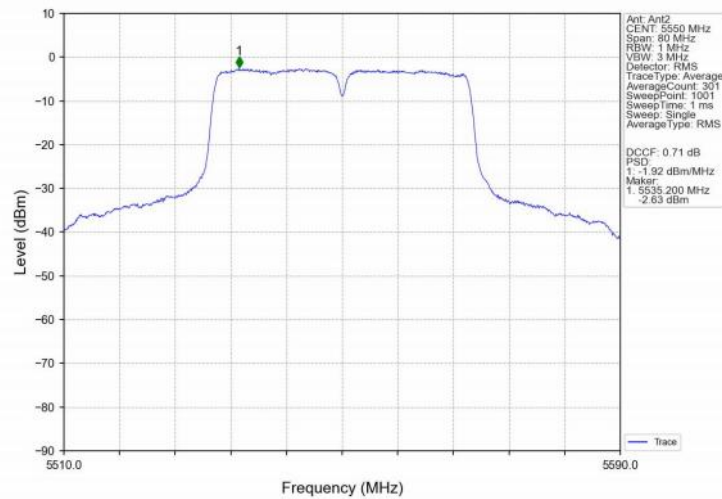
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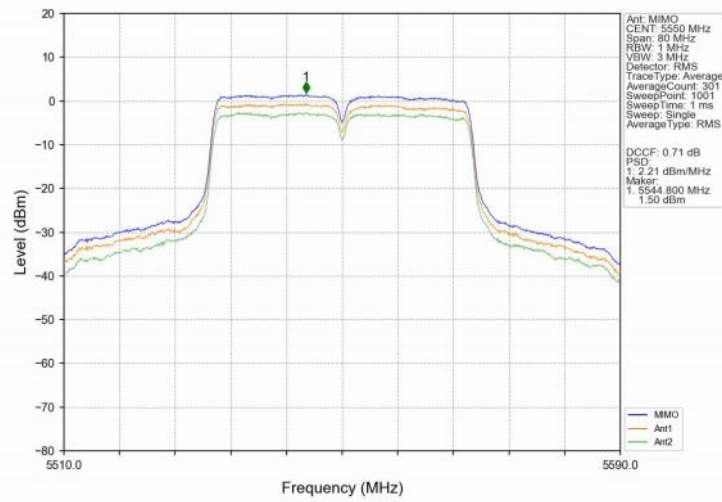
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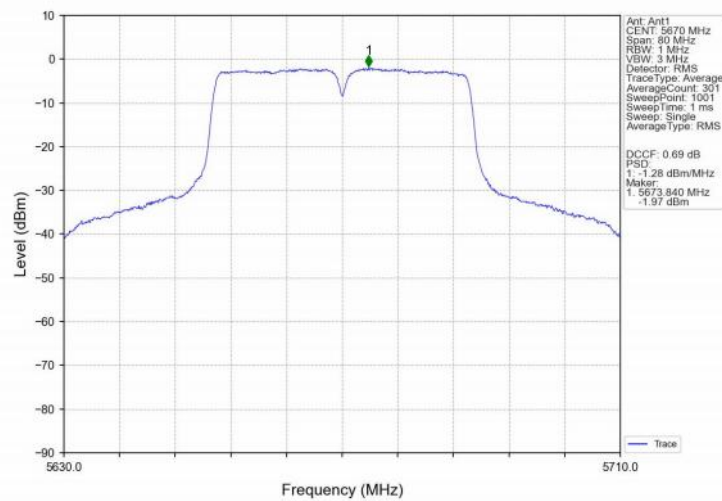
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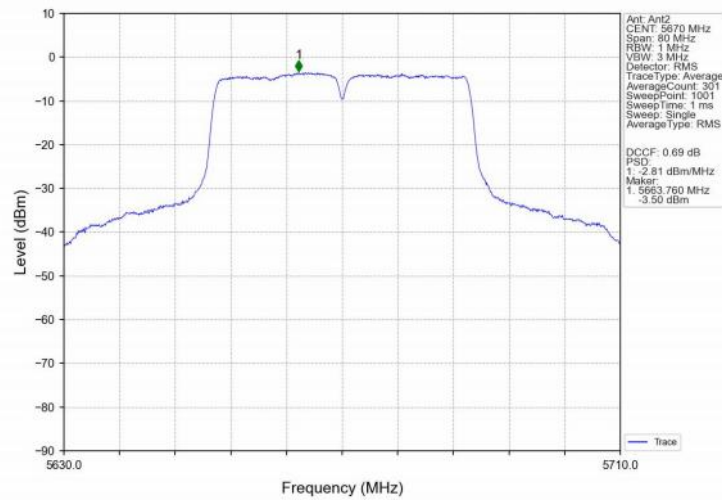
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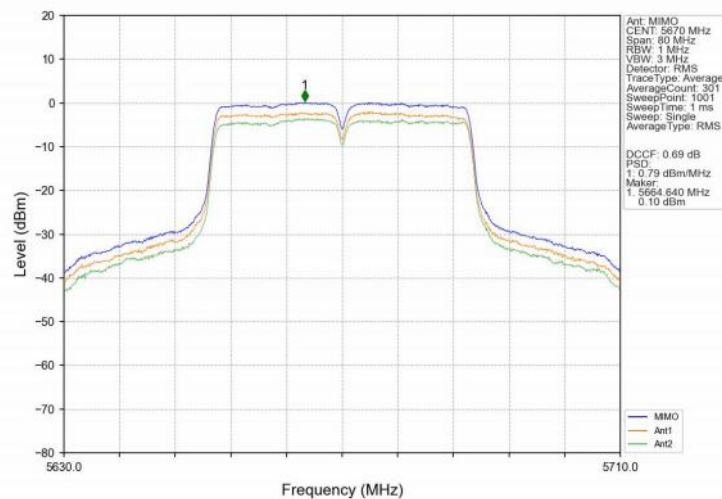
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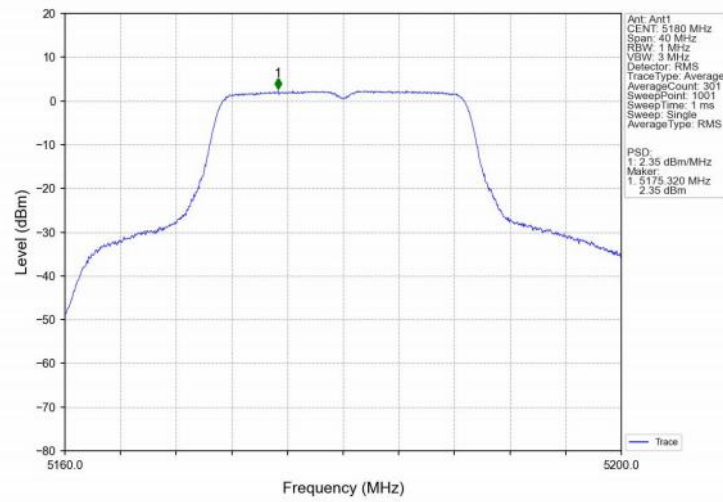
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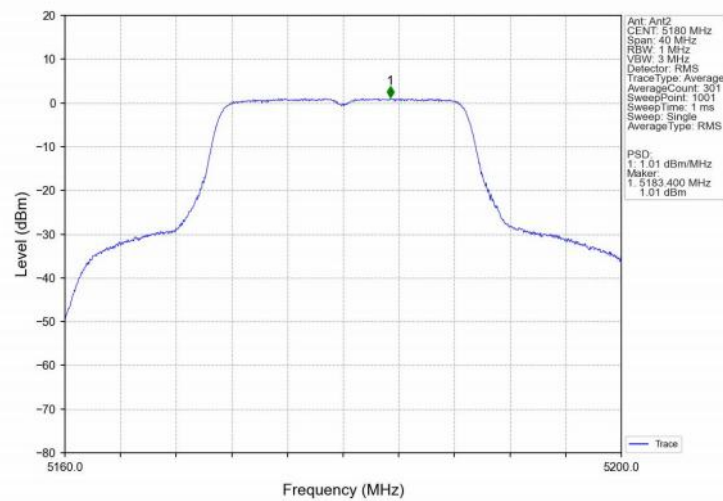
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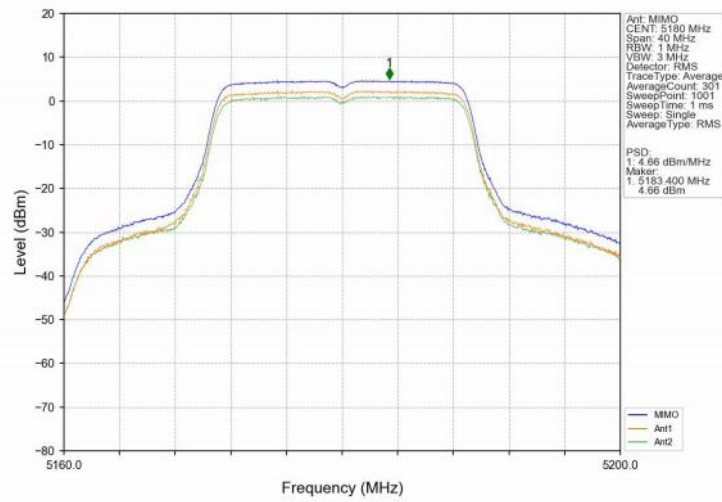
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



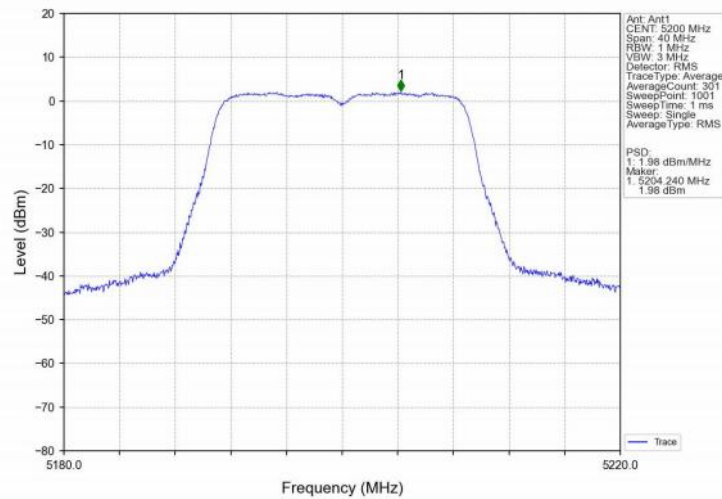
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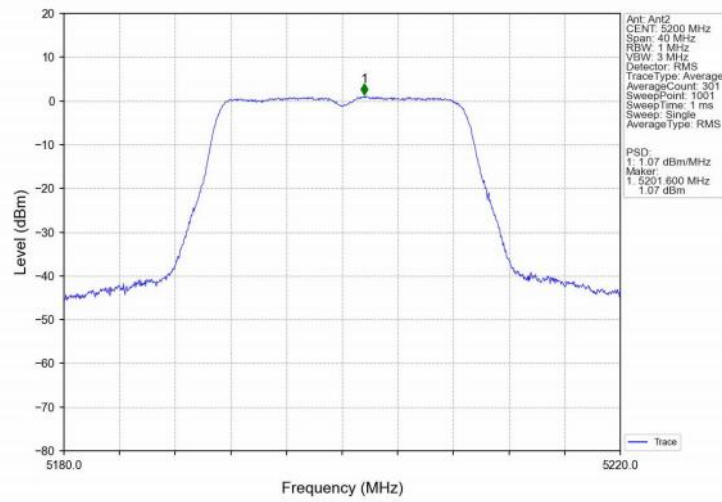
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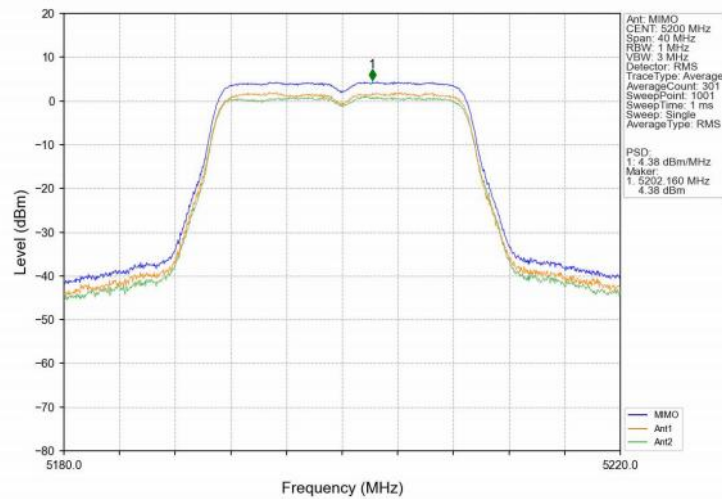
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



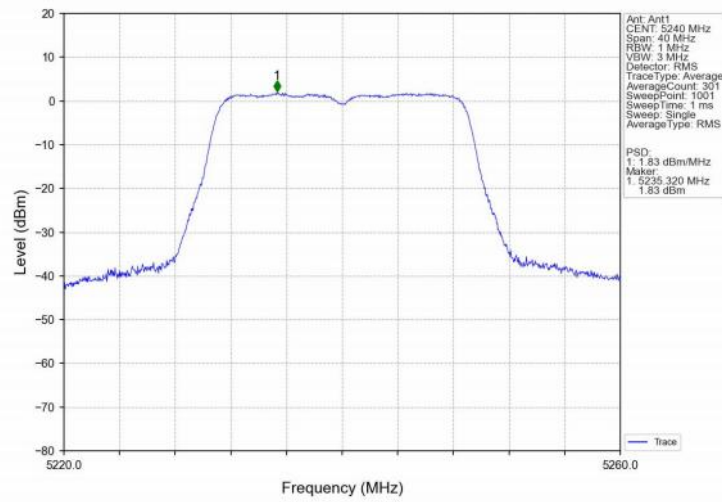
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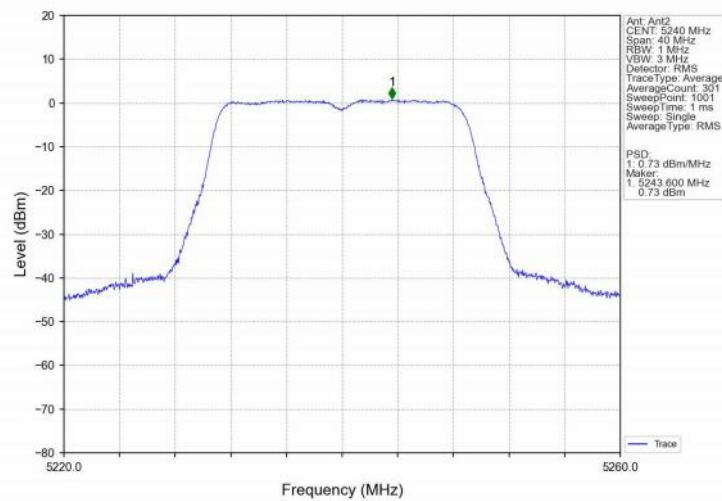
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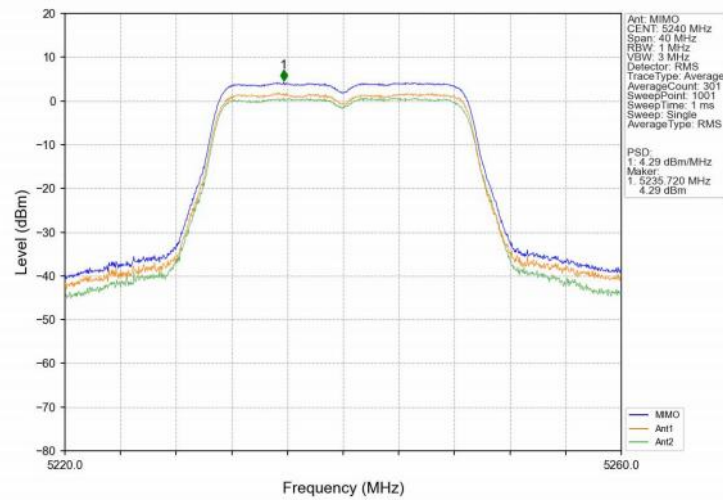
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



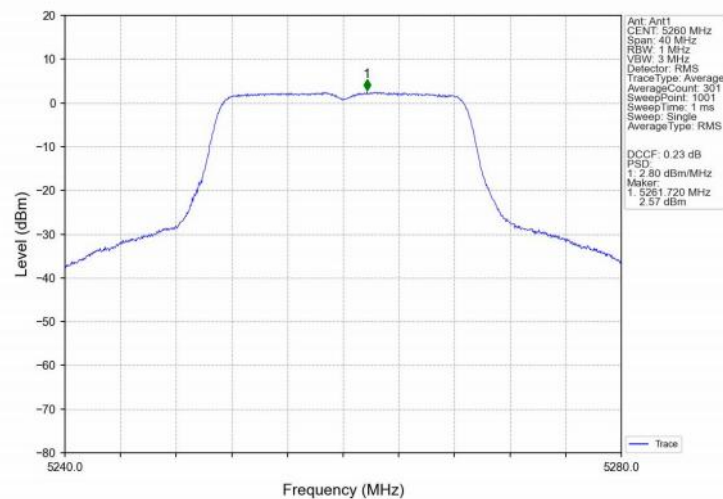
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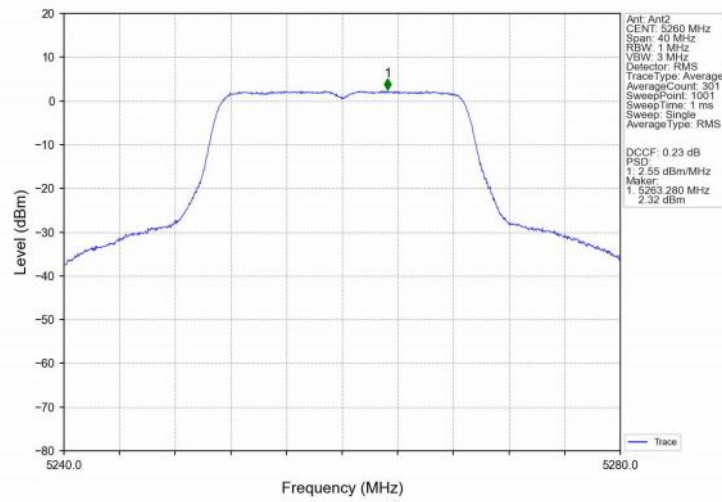
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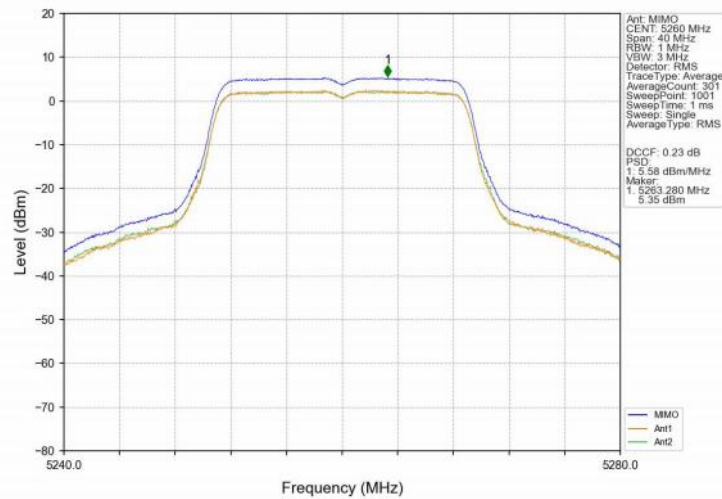
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



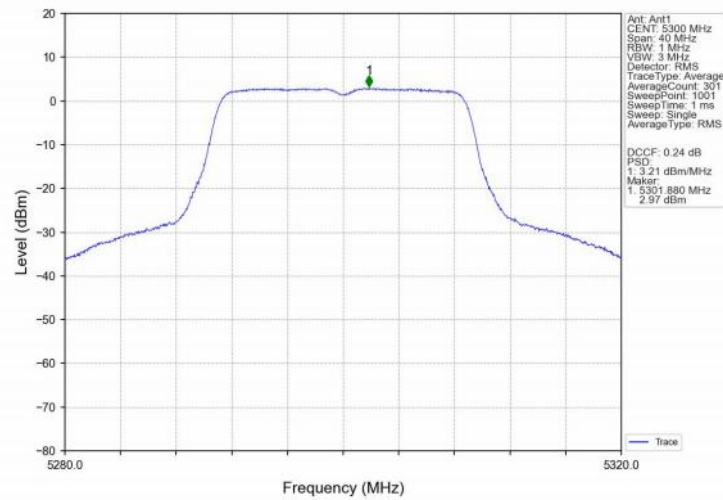
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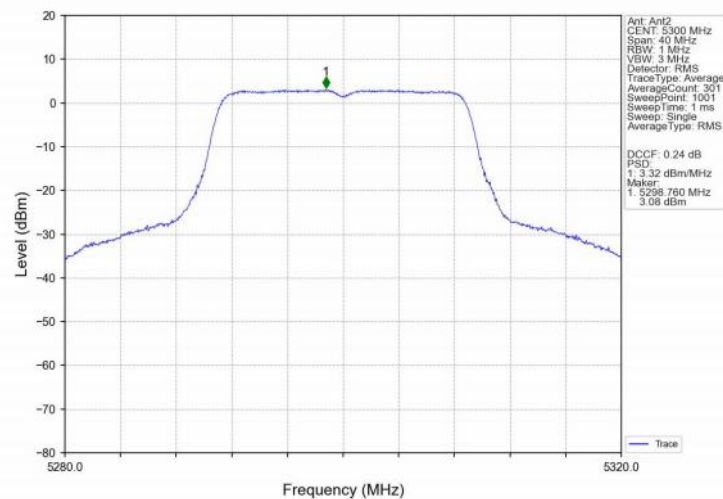
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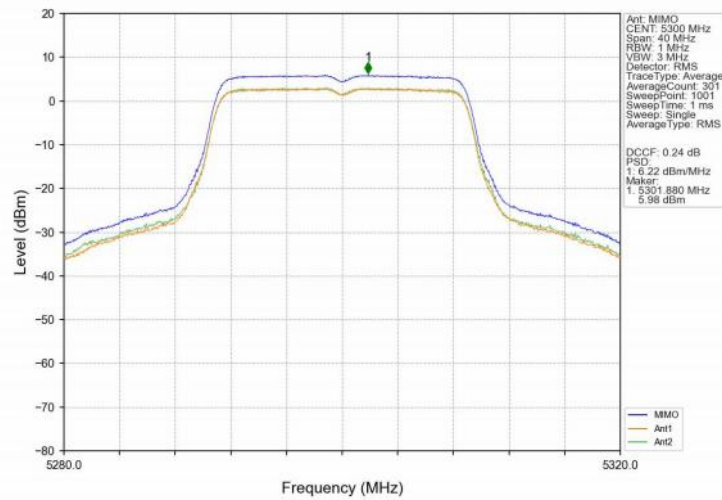
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



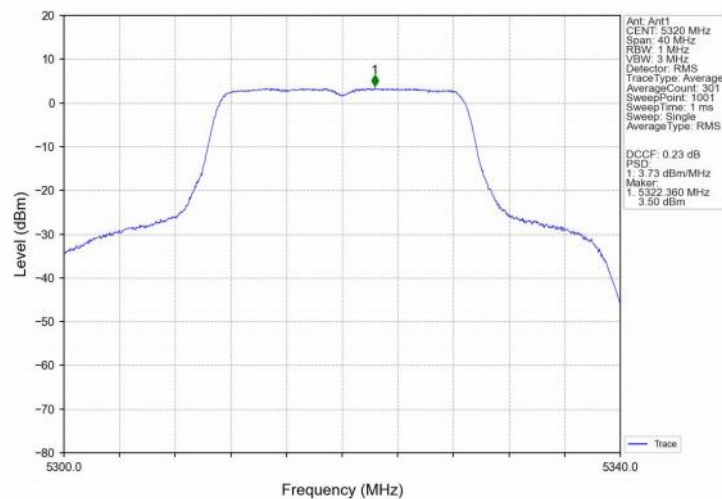
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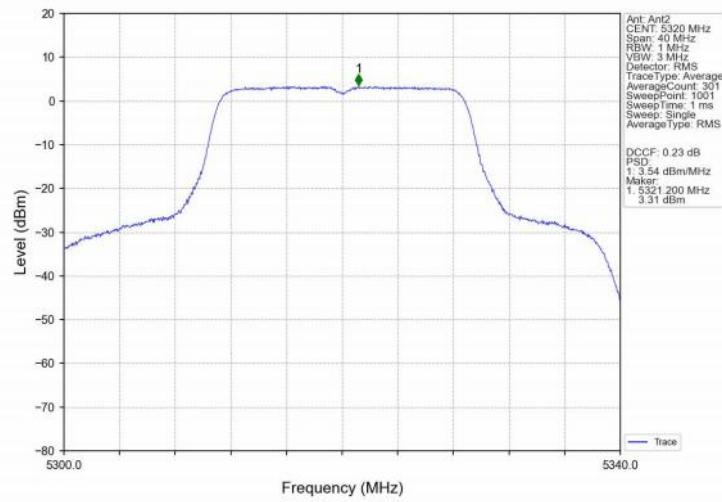
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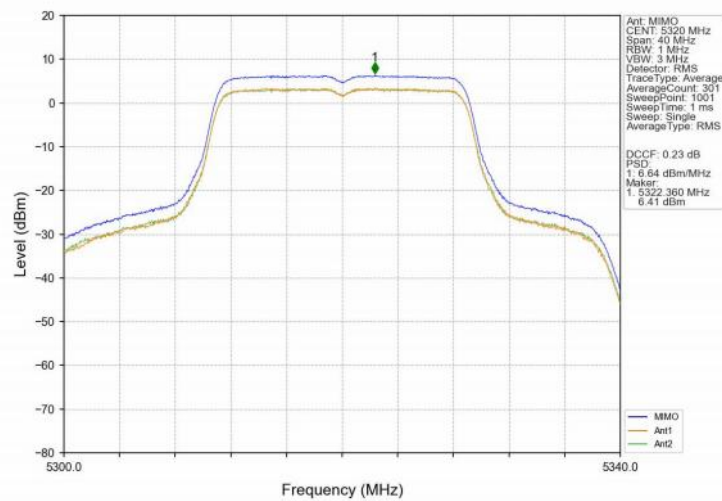
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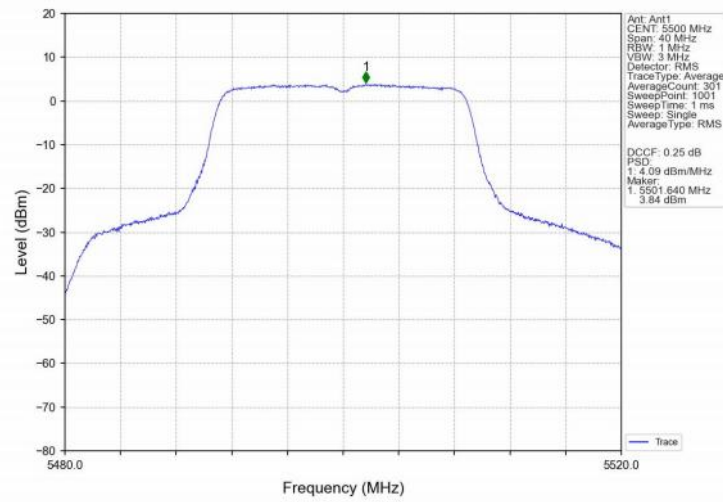
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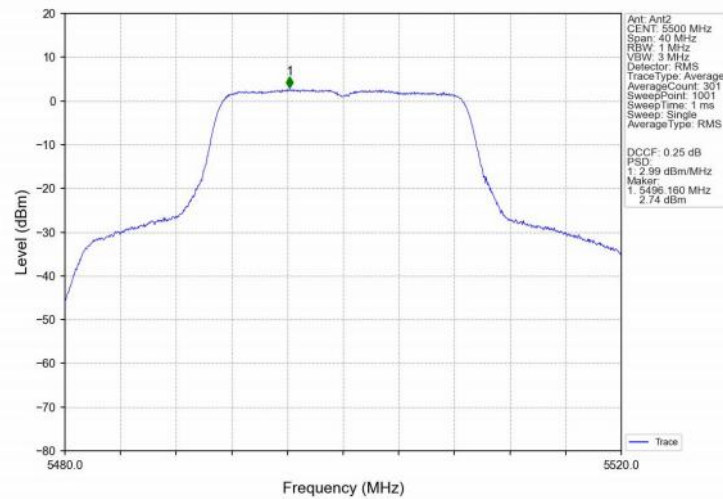
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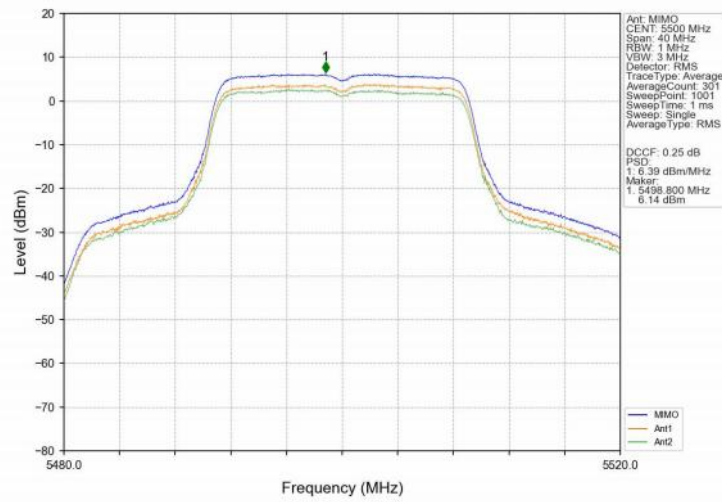
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



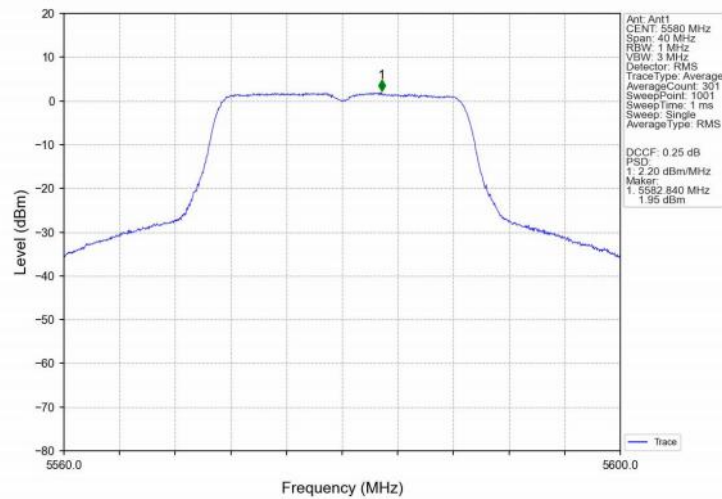
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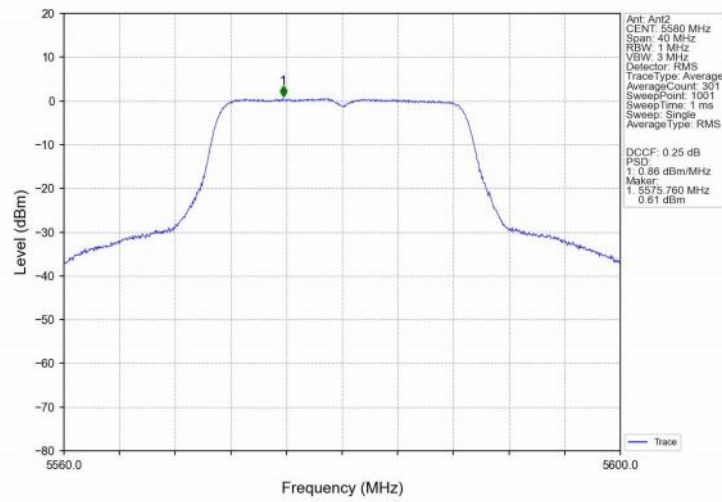
802.11ac(VHT20)_LCH_5500MHz_MIMO_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant2_NTNV



802.11ac(VHT20)_MCH_5580MHz_MIMO_NTNV

