

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800332903

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		5550	/	/	13.81	12.55	16.24	<=23.98	Pass
		5670	/	/	13.65	12.73	16.23	<=23.98	Pass
		5260	/	/	12.41	12.15	15.29	<=23.98	Pass
		5300	/	/	12.40	12.18	15.30	<=23.96	Pass
		5320	/	/	12.77	12.59	15.69	<=23.98	Pass
		5500	/	/	11.69	11.21	14.47	<=23.98	Pass
		5580	/	/	11.64	12.09	14.88	<=23.97	Pass
		5700	/	/	11.67	11.64	14.66	<=23.98	Pass
802.11ac (VHT40)	MIMO	5270	/	/	15.30	15.20	18.26	<=23.98	Pass
		5310	/	/	15.81	15.43	18.63	<=23.98	Pass
		5510	/	/	13.29	12.16	15.77	<=23.98	Pass
		5550	/	/	13.68	12.48	16.13	<=23.98	Pass
		5670	/	/	13.60	12.67	16.17	<=23.98	Pass
802.11ac (VHT80)	MIMO	5290	/	/	12.80	12.88	15.85	<=23.98	Pass
		5530	/	/	11.77	10.09	14.02	<=23.98	Pass
		5610	/	/	11.43	9.81	13.71	<=23.98	Pass
802.11ac (VHT160)	MIMO	5570	/	/	10.53	8.85	12.78	<=23.98	Pass
		5250	/	/	11.17	11.13	14.16	<=23.98	Pass
802.11ax (HEW20)	MIMO	5260	RU242	Left	12.29	12.34	15.33	<=23.98	Pass
		5300	RU242	Left	12.62	12.50	15.57	<=23.98	Pass
		5320	RU242	Left	12.97	12.89	15.94	<=23.98	Pass
		5500	RU242	Left	12.55	11.85	15.22	<=23.98	Pass
		5580	RU242	Left	12.75	12.37	15.57	<=23.98	Pass
		5700	RU242	Left	13.04	11.57	15.38	<=23.98	Pass
802.11ax (HEW40)	MIMO	5270	RU484	Left	15.08	14.96	18.03	<=23.98	Pass
		5310	RU484	Left	15.54	15.01	18.30	<=23.98	Pass
		5510	RU484	Left	12.95	11.73	15.40	<=23.98	Pass
		5550	RU484	Left	13.41	12.07	15.80	<=23.98	Pass
		5670	RU484	Left	13.43	12.35	15.93	<=23.98	Pass
802.11ax (HEW80)	MIMO	5290	RU996	Left	12.83	12.57	15.71	<=23.98	Pass
		5530	RU996	Left	11.70	9.91	13.91	<=23.98	Pass
		5610	RU996	Left	11.33	9.77	13.63	<=23.98	Pass
802.11ax (HEW160)	MIMO	5570	2xRU996	Left	10.63	8.81	12.82	<=23.98	Pass
		5250	2xRU996	Left	11.30	11.03	14.18	<=23.98	Pass

Note1: Antenna Gain: Ant1: 2.86dBi; Ant2: 2.86dBi;

Note2: Directional Gain: 5.87dBi,



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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	/	/	13.04	12.98	/	<=17	Pass
		5200	/	/	13.10	13.05	/	<=17	Pass
		5240	/	/	13.05	13.40	/	<=17	Pass
		5260	/	/	7.43	8.10	/	<=11	Pass
		5300	/	/	7.87	8.25	/	<=11	Pass
		5320	/	/	8.22	8.74	/	<=11	Pass
		5500	/	/	7.58	7.52	/	<=11	Pass
		5580	/	/	7.70	8.01	/	<=11	Pass
		5700	/	/	7.82	7.87	/	<=11	Pass
802.11n (HT20)	MIMO	5180	/	/	10.47	10.23	13.28	<=17	Pass
		5200	/	/	10.61	10.45	13.46	<=17	Pass
		5240	/	/	10.83	10.78	13.79	<=17	Pass
		5260	/	/	7.60	7.34	10.37	<=11	Pass
		5300	/	/	7.56	7.45	10.42	<=11	Pass
		5320	/	/	8.07	7.89	10.85	<=11	Pass
		5500	/	/	7.07	6.83	9.78	<=11	Pass
		5580	/	/	6.98	7.38	10.16	<=11	Pass
		5700	/	/	6.98	7.10	10.00	<=11	Pass
802.11n (HT40)	MIMO	5190	/	/	7.55	7.35	10.46	<=17	Pass
		5230	/	/	7.69	7.93	10.67	<=17	Pass
		5270	/	/	7.49	7.56	10.36	<=11	Pass
		5310	/	/	7.92	7.81	10.73	<=11	Pass
		5510	/	/	5.80	4.52	8.16	<=11	Pass
		5550	/	/	6.17	4.94	8.43	<=11	Pass
		5670	/	/	5.81	5.02	8.39	<=11	Pass
802.11ac (VHT20)	MIMO	5180	/	/	11.54	11.40	14.43	<=17	Pass
		5200	/	/	11.73	11.73	14.67	<=17	Pass
		5240	/	/	11.84	11.95	14.83	<=17	Pass
		5260	/	/	7.53	7.36	10.34	<=11	Pass
		5300	/	/	7.52	7.46	10.43	<=11	Pass
		5320	/	/	8.02	7.80	10.89	<=11	Pass
		5500	/	/	6.82	6.71	9.68	<=11	Pass

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		5580	/	/	6.81	7.28	10.03	<=11	Pass
		5700	/	/	6.89	6.89	9.86	<=11	Pass
802.11ac (VHT40)	MIMO	5190	/	/	7.41	7.50	10.38	<=17	Pass
		5230	/	/	7.48	7.83	10.51	<=17	Pass
		5270	/	/	7.33	7.59	10.35	<=11	Pass
		5310	/	/	8.11	7.68	10.74	<=11	Pass
		5510	/	/	5.72	4.61	8.09	<=11	Pass
		5550	/	/	5.97	4.92	8.38	<=11	Pass
		5670	/	/	5.96	4.94	8.37	<=11	Pass
		5210	/	/	2.47	2.66	5.57	<=17	Pass
802.11ac (VHT80)	MIMO	5290	/	/	2.77	2.92	5.86	<=11	Pass
		5530	/	/	1.71	0.04	3.93	<=11	Pass
		5610	/	/	1.33	-0.15	3.56	<=11	Pass
		5570	/	/	-2.17	-3.88	0.02	<=11	Pass
802.11ac (VHT160)	MIMO	5250	/	/	-1.96	-1.90	1.08	<=17	Pass
		5180	RU242	Left	11.62	11.47	14.55	<=17	Pass
802.11ax (HEW20)	MIMO	5200	RU242	Left	11.74	11.65	14.69	<=17	Pass
		5240	RU242	Left	11.79	12.16	14.94	<=17	Pass
		5260	RU242	Left	7.29	7.50	10.24	<=11	Pass
		5300	RU242	Left	7.43	7.62	10.53	<=11	Pass
		5320	RU242	Left	7.94	7.98	10.86	<=11	Pass
		5500	RU242	Left	7.67	7.00	10.29	<=11	Pass
		5580	RU242	Left	7.73	7.49	10.49	<=11	Pass
		5700	RU242	Left	8.00	6.71	10.33	<=11	Pass
		5190	RU484	Left	7.31	7.11	10.03	<=17	Pass
		5230	RU484	Left	7.34	7.54	10.32	<=17	Pass
802.11ax (HEW40)	MIMO	5270	RU484	Left	7.14	7.11	10.08	<=11	Pass
		5310	RU484	Left	7.59	7.20	10.34	<=11	Pass
		5510	RU484	Left	5.26	3.93	7.60	<=11	Pass
		5550	RU484	Left	5.71	4.41	8.04	<=11	Pass
		5670	RU484	Left	5.78	4.86	8.17	<=11	Pass
		5210	RU996	Left	2.49	2.33	5.30	<=17	Pass
		5290	RU996	Left	2.79	2.27	5.48	<=11	Pass
802.11ax (HEW80)	MIMO	5530	RU996	Left	1.59	0.16	3.95	<=11	Pass
		5610	RU996	Left	1.19	-0.25	3.45	<=11	Pass
		5570	2xRU996	Left	-2.09	-4.00	-0.09	<=11	Pass
		5250	2xRU996	Left	-1.87	-1.88	1.06	<=17	Pass

Note1: Antenna Gain: Ant1: 2.86dBi; Ant2: 2.86dBi;

Note2: Directional Gain: 5.87dBi,



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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	/	/	7.49	5.91	/	<=30	Pass
		5785	/	/	7.15	5.95	/	<=30	Pass
		5825	/	/	6.42	6.12	/	<=30	Pass
802.11n (HT20)	MIMO	5745	/	/	9.73	10.62	13.17	<=30	Pass
		5785	/	/	10.29	11.23	13.70	<=30	Pass
		5825	/	/	10.82	11.18	13.96	<=30	Pass
802.11n (HT40)	MIMO	5755	/	/	7.85	8.41	11.15	<=30	Pass
		5795	/	/	8.49	9.10	11.74	<=30	Pass
802.11ac (VHT20)	MIMO	5745	/	/	9.88	10.54	13.24	<=30	Pass
		5785	/	/	10.31	10.90	13.59	<=30	Pass
		5825	/	/	10.61	10.82	13.72	<=30	Pass
802.11ac (VHT40)	MIMO	5755	/	/	7.73	7.81	10.69	<=30	Pass
		5795	/	/	8.49	8.39	11.38	<=30	Pass
802.11ac (VHT80)	MIMO	5775	/	/	3.40	2.59	6.00	<=30	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	10.16	10.92	13.34	<=30	Pass
		5785	RU242	Left	10.28	11.15	13.70	<=30	Pass
		5825	RU242	Left	10.72	10.36	13.50	<=30	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	7.48	7.79	10.52	<=30	Pass
		5795	RU484	Left	8.05	8.09	10.91	<=30	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	5.14	5.50	8.31	<=30	Pass

Note1: Antenna Gain: Ant1: 2.86dBi; Ant2: 2.86dBi;

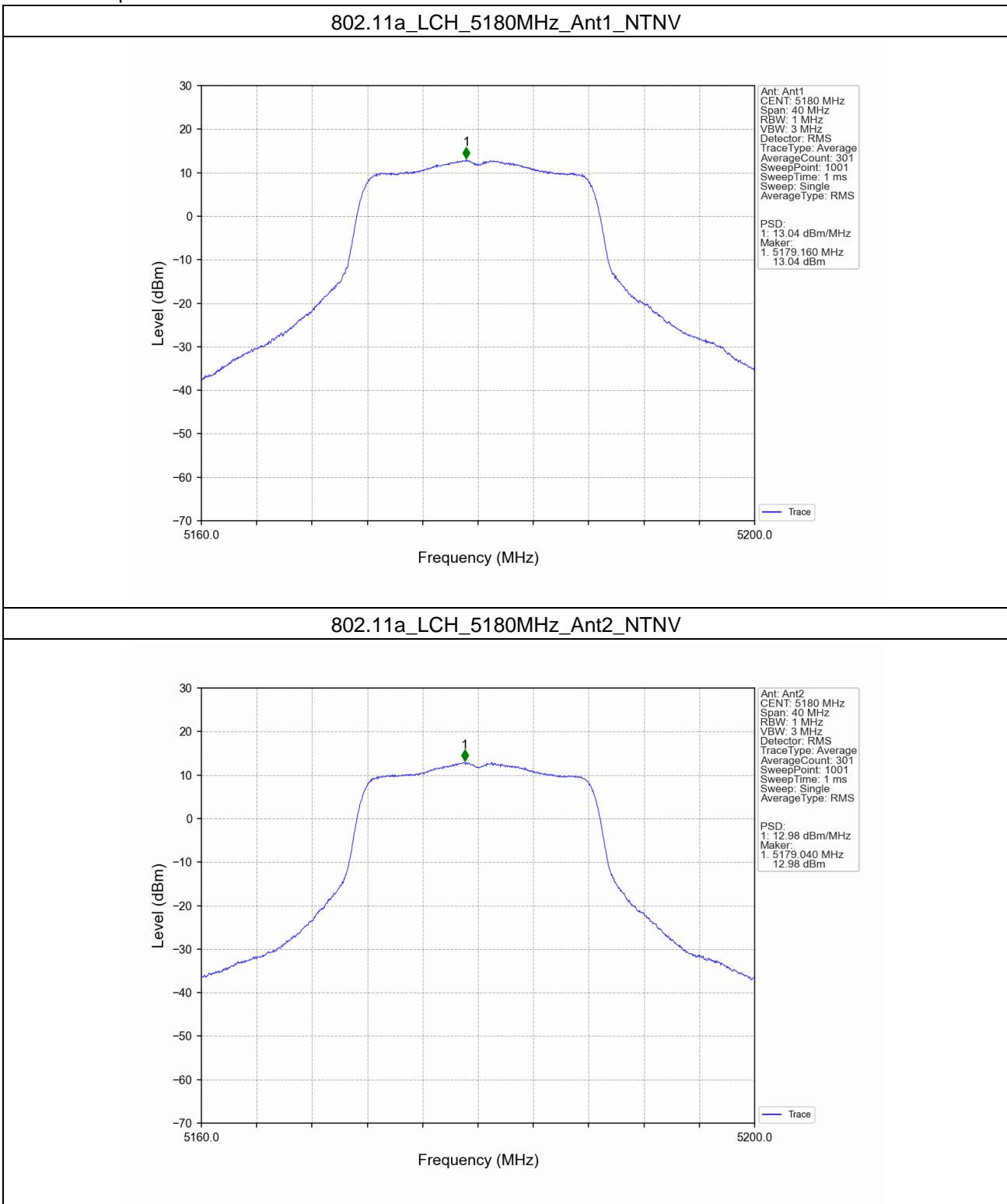
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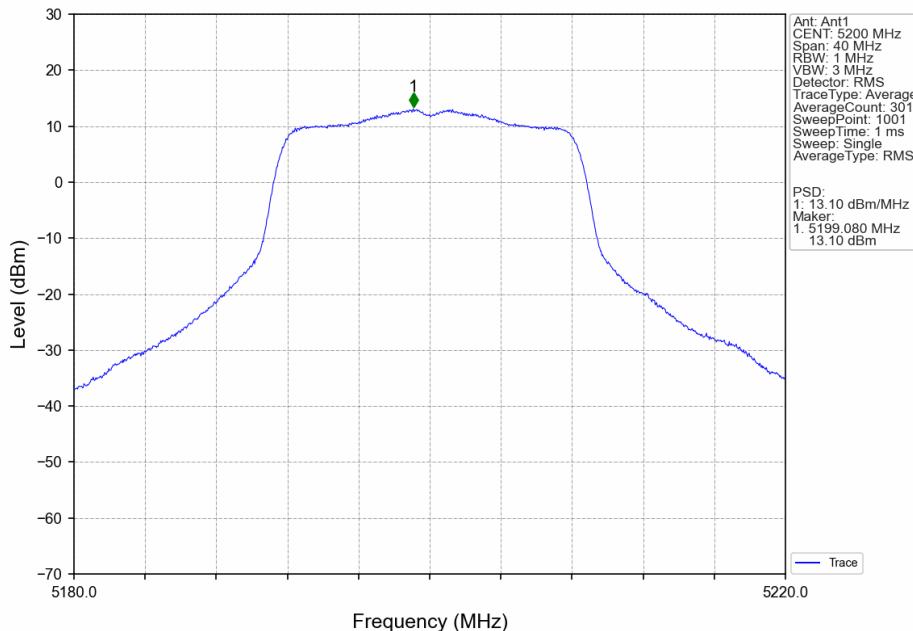
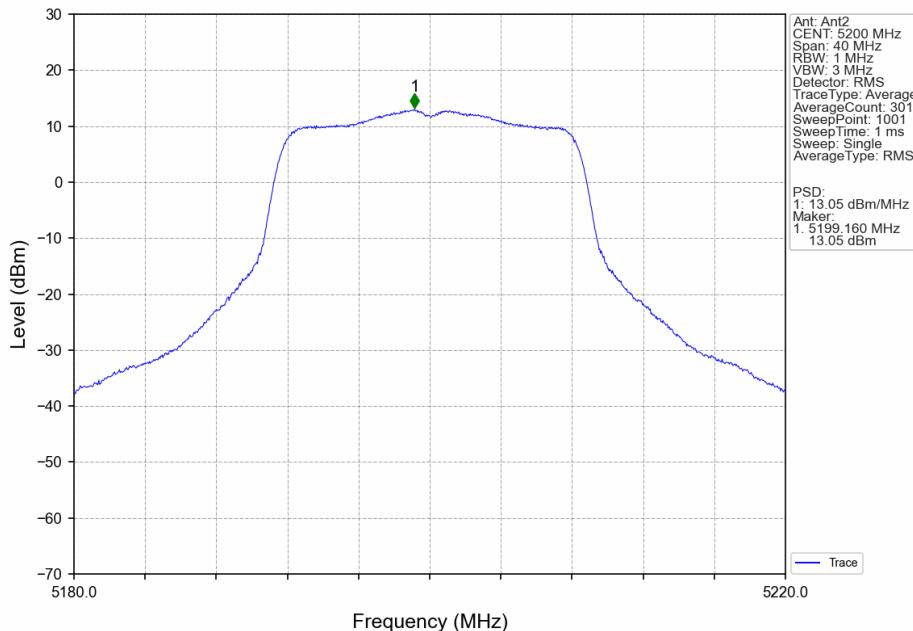
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4.2 Test Graph 4.2.1 PSD



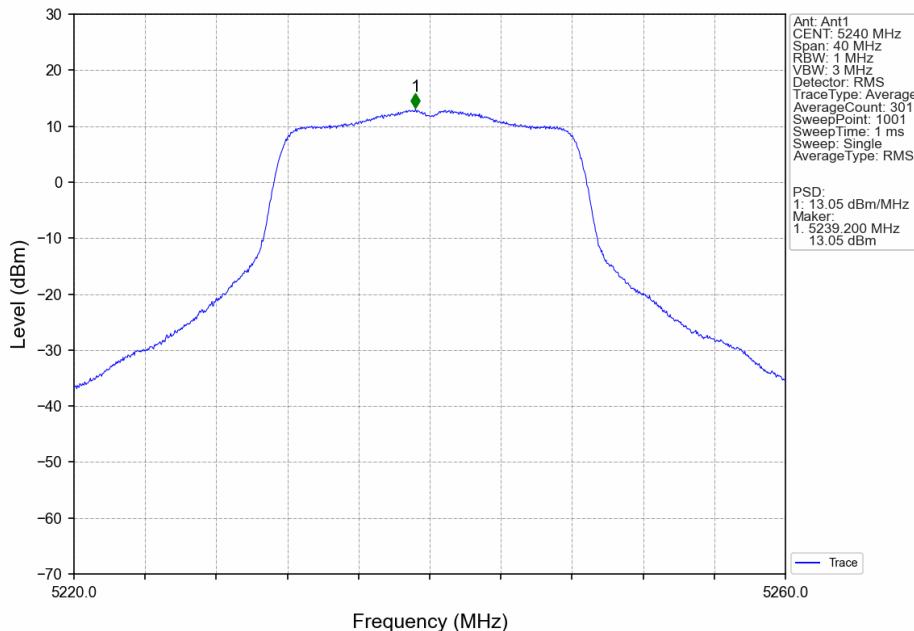
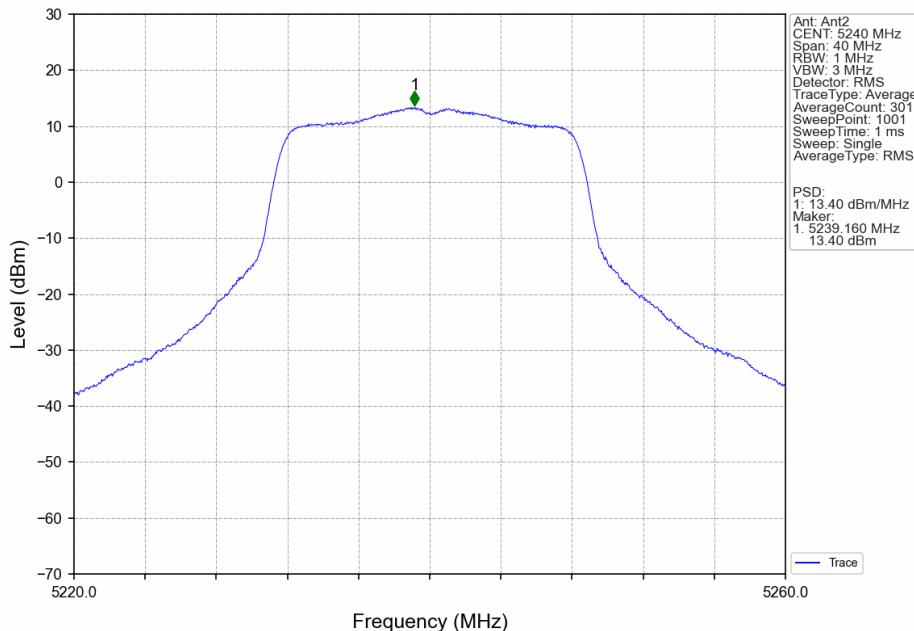
802.11a_MCH_5200MHz_Ant1_NTNV**802.11a_MCH_5200MHz_Ant2_NTNV**

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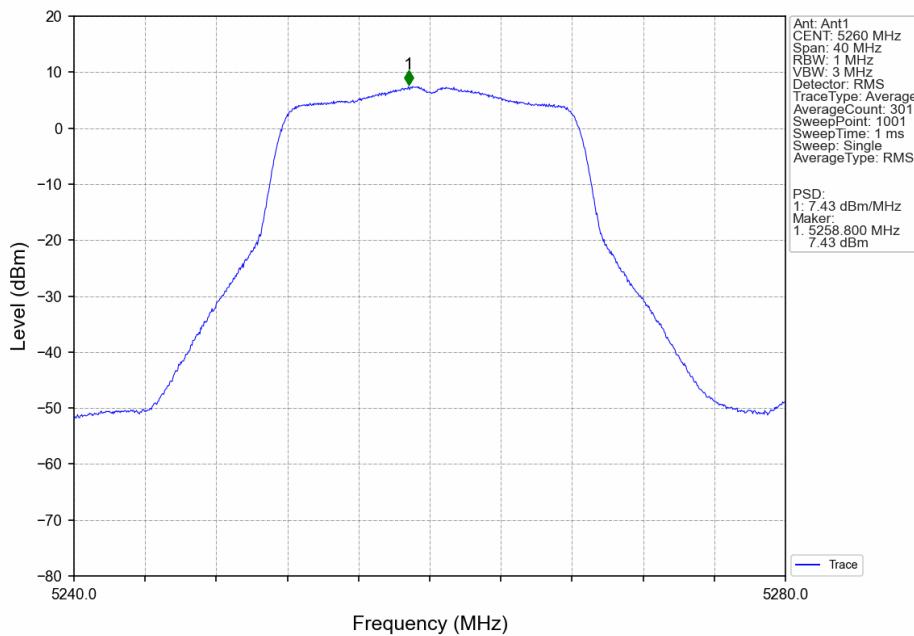
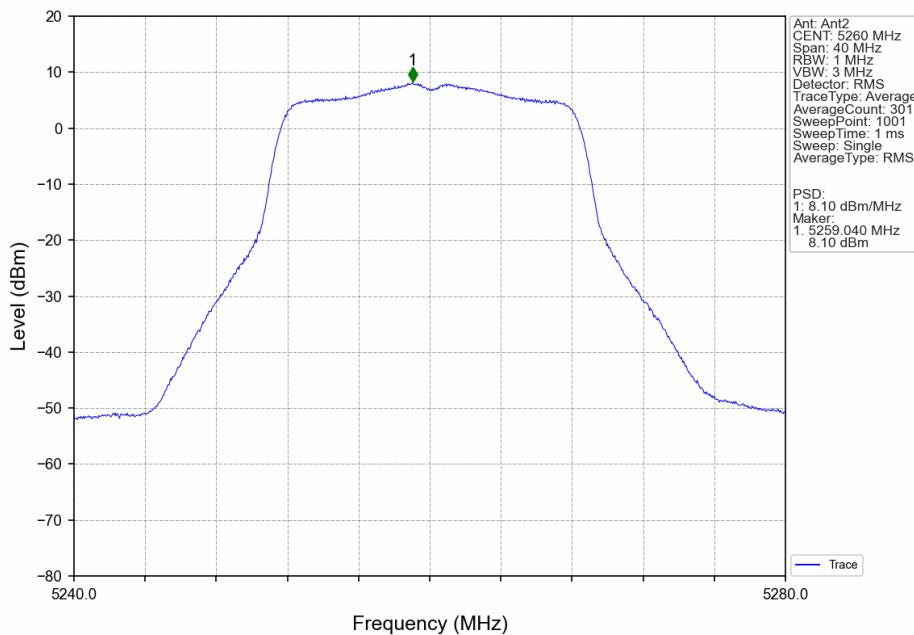


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802.11a_HCH_5240MHz_Ant1_NTNV**802.11a_HCH_5240MHz_Ant2_NTNV**

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802.11a_LCH_5260MHz_Ant1_NTNV**802.11a_LCH_5260MHz_Ant2_NTNV**

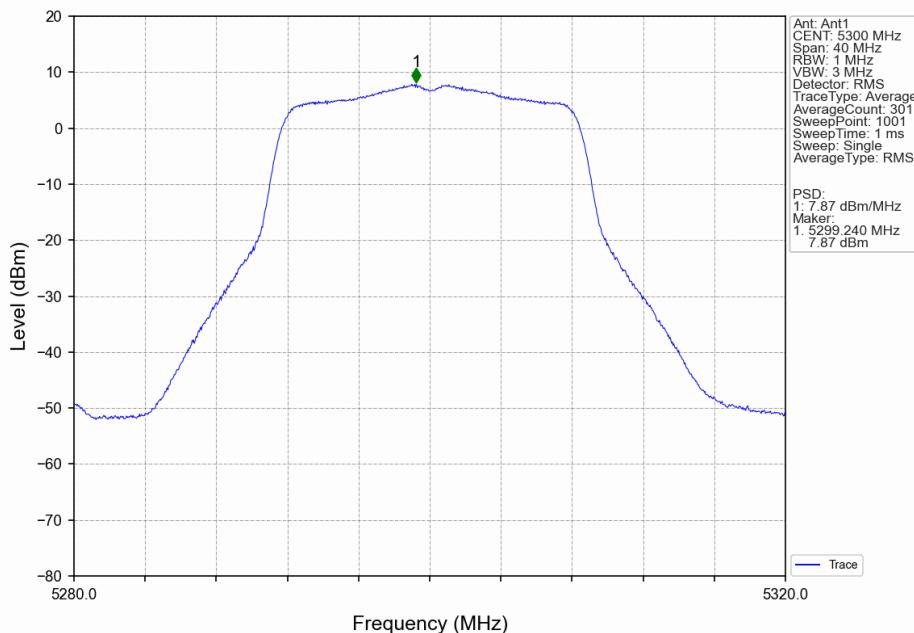
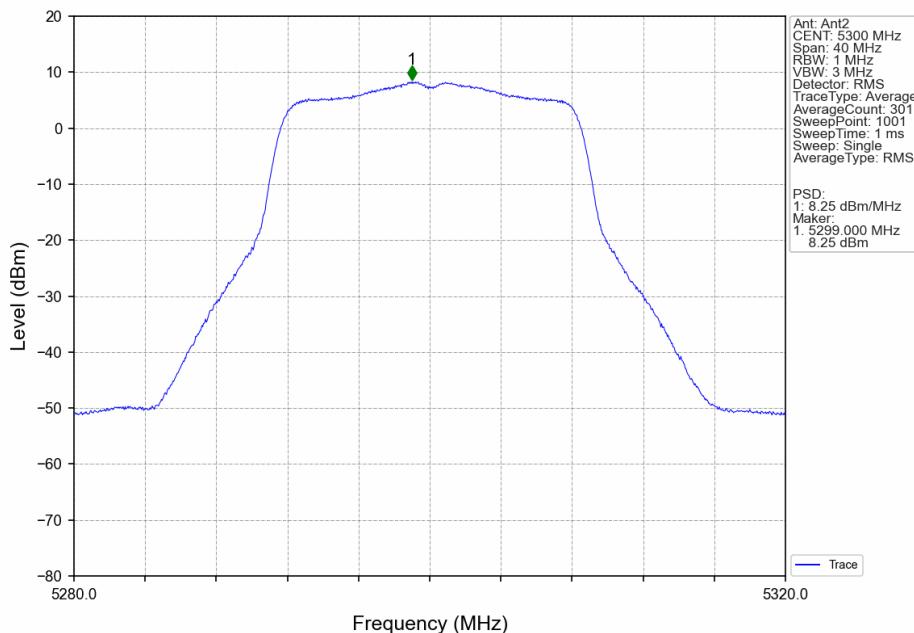
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802.11a_MCH_5300MHz_Ant1_NTNV**802.11a_MCH_5300MHz_Ant2_NTNV**

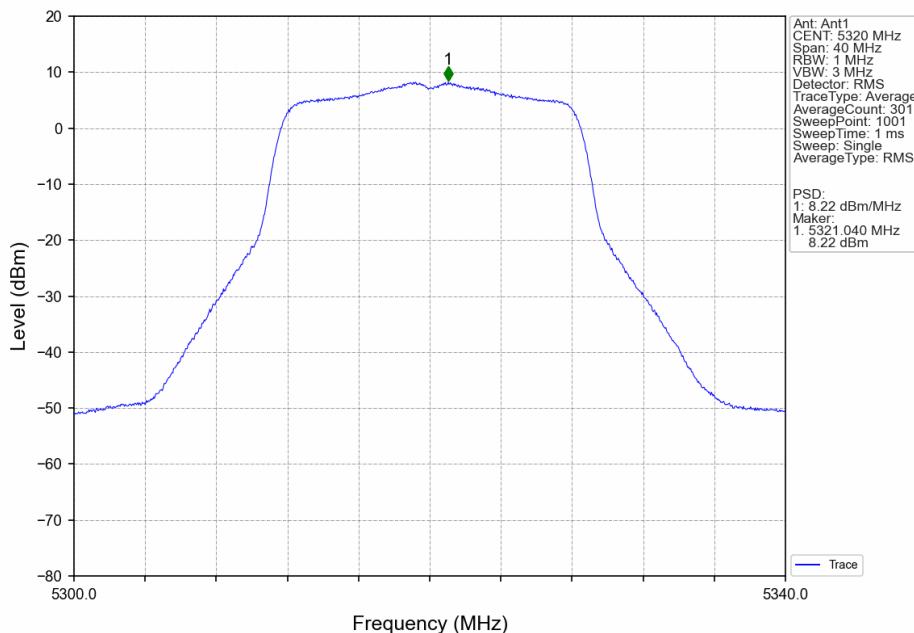
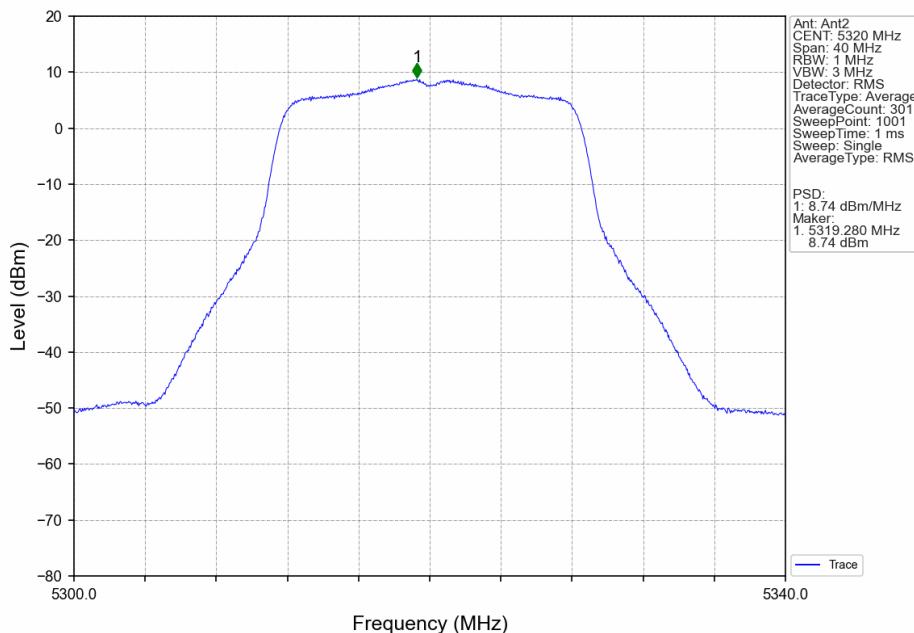
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802.11a_HCH_5320MHz_Ant1_NTNV**802.11a_HCH_5320MHz_Ant2_NTNV**

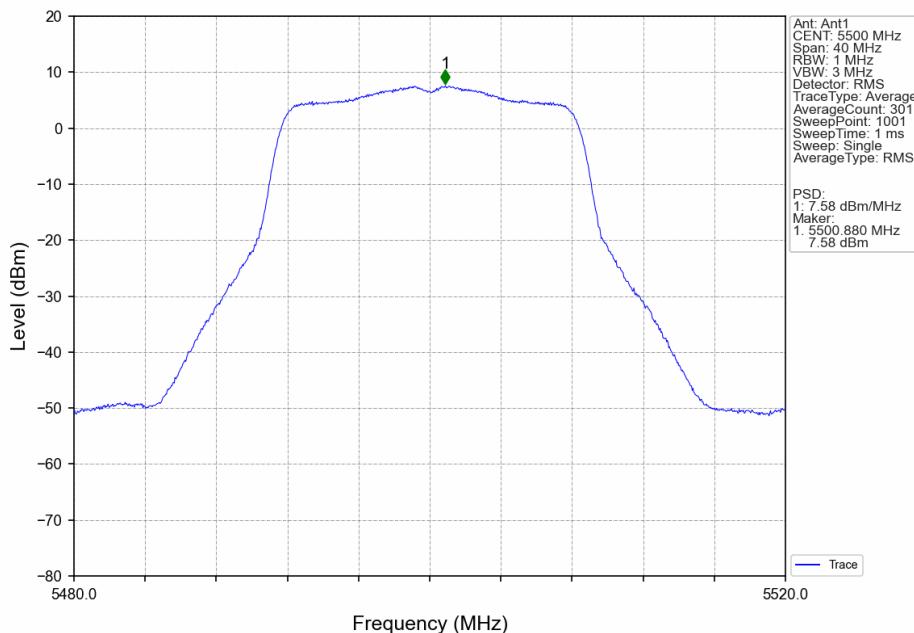
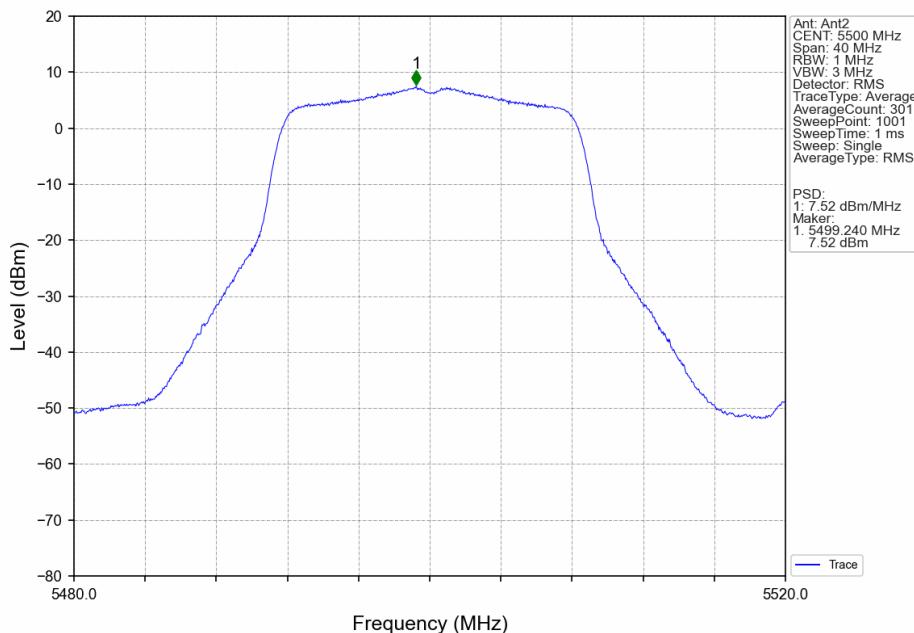
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802.11a_LCH_5500MHz_Ant1_NTNV**802.11a_LCH_5500MHz_Ant2_NTNV**

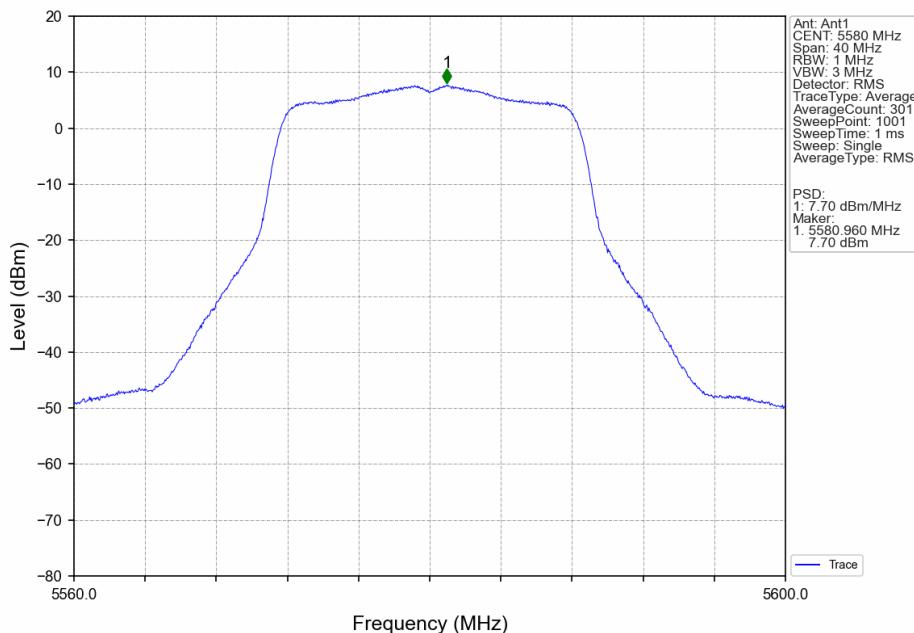
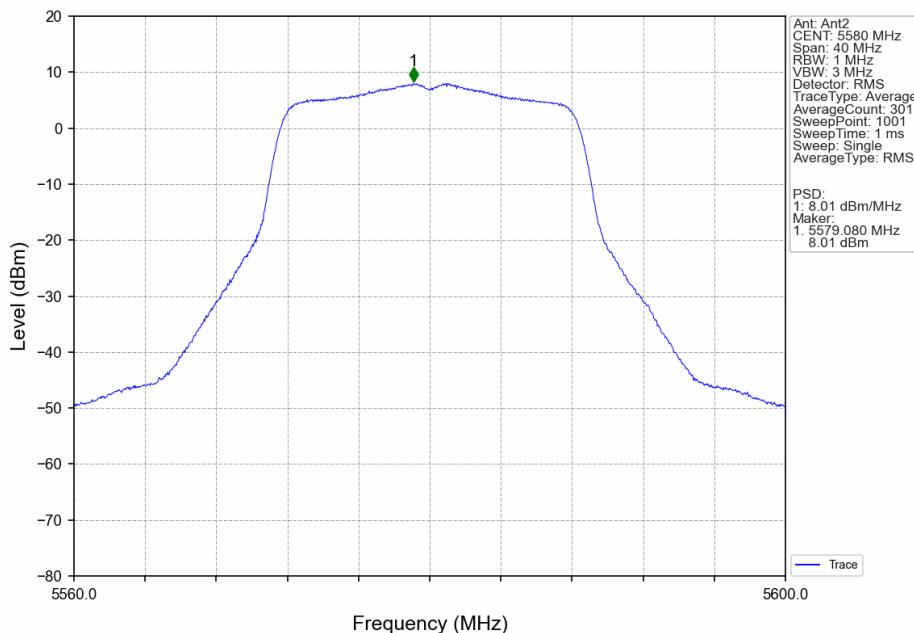
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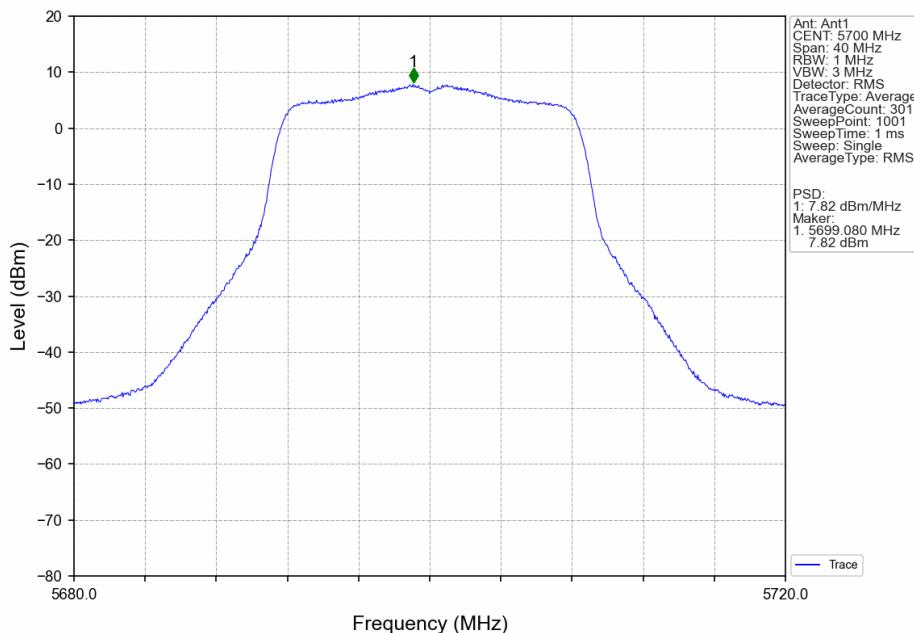
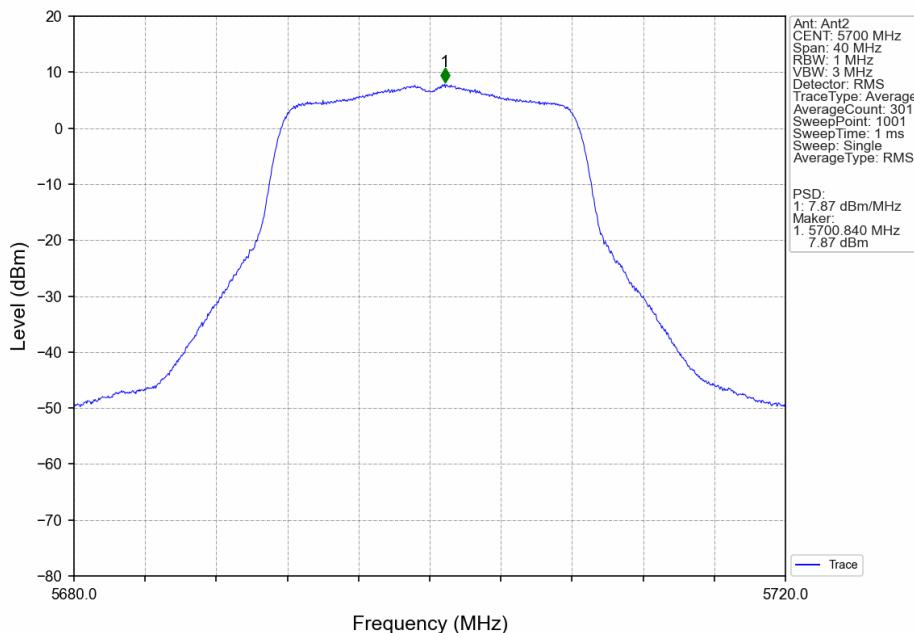
802.11a_MCH_5580MHz_Ant1_NTNV**802.11a_MCH_5580MHz_Ant2_NTNV**

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802.11a_HCH_5700MHz_Ant1_NTNV**802.11a_HCH_5700MHz_Ant2_NTNV**

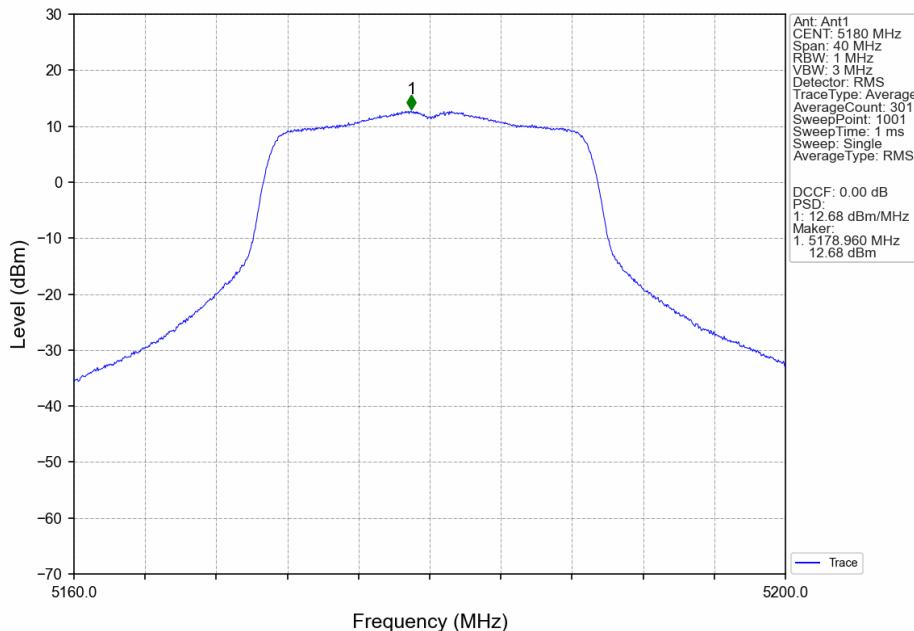
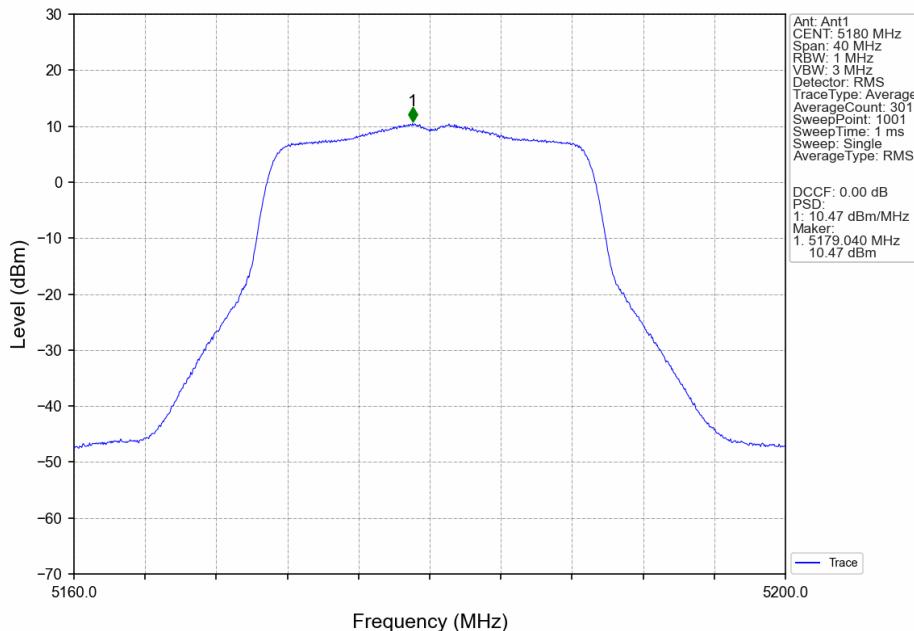
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV**802.11n(HT20)_LCH_5180MHz_Ant1_NTNV**

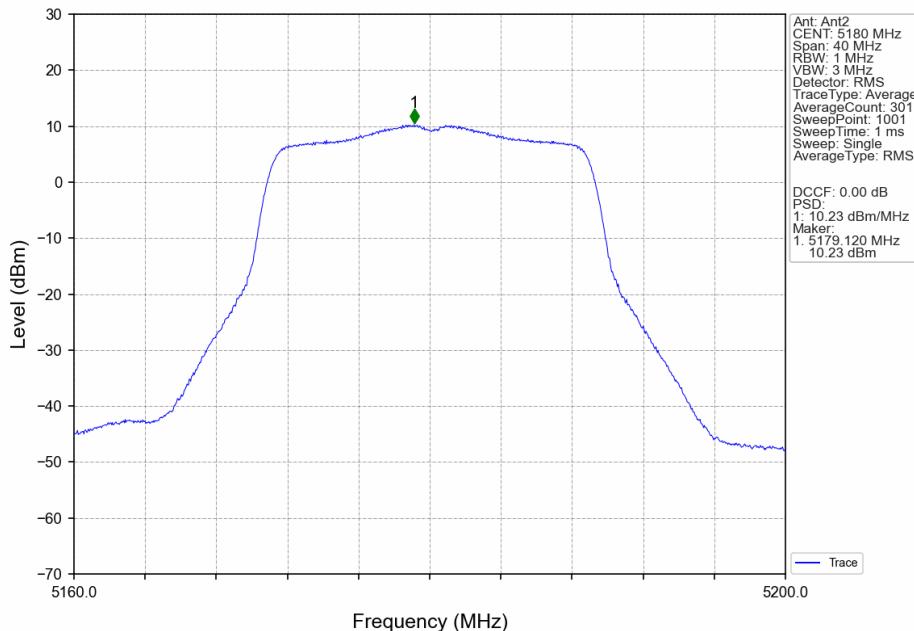
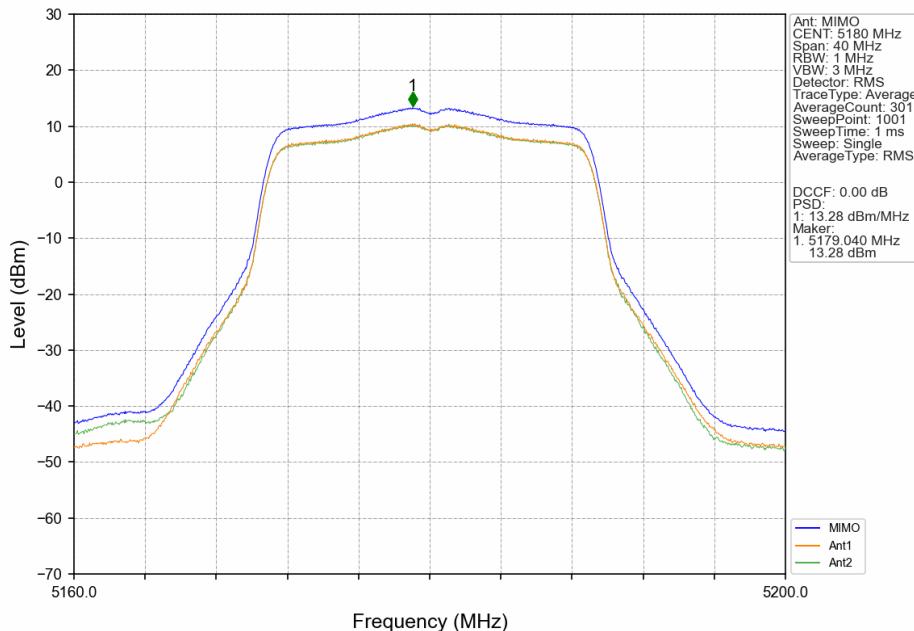
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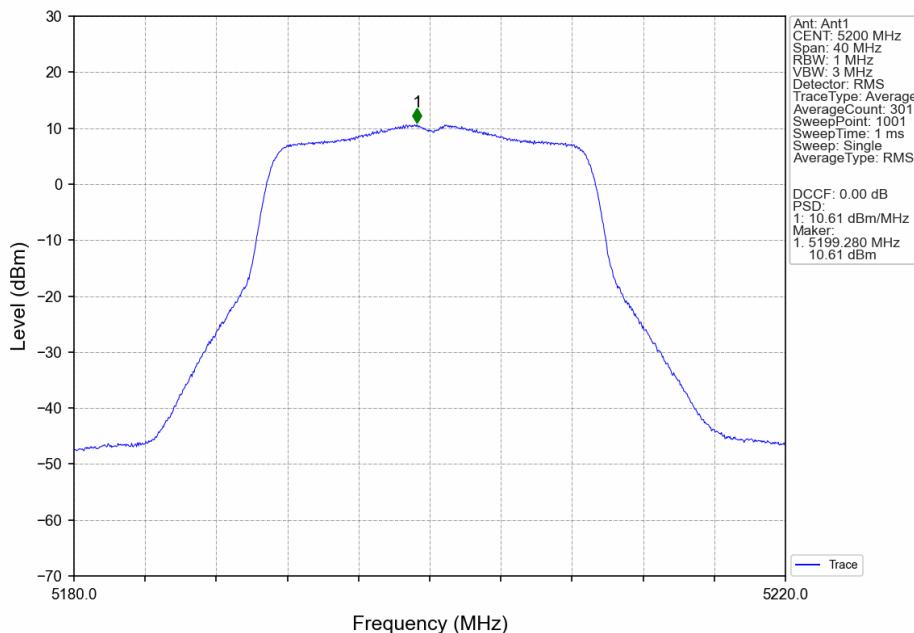
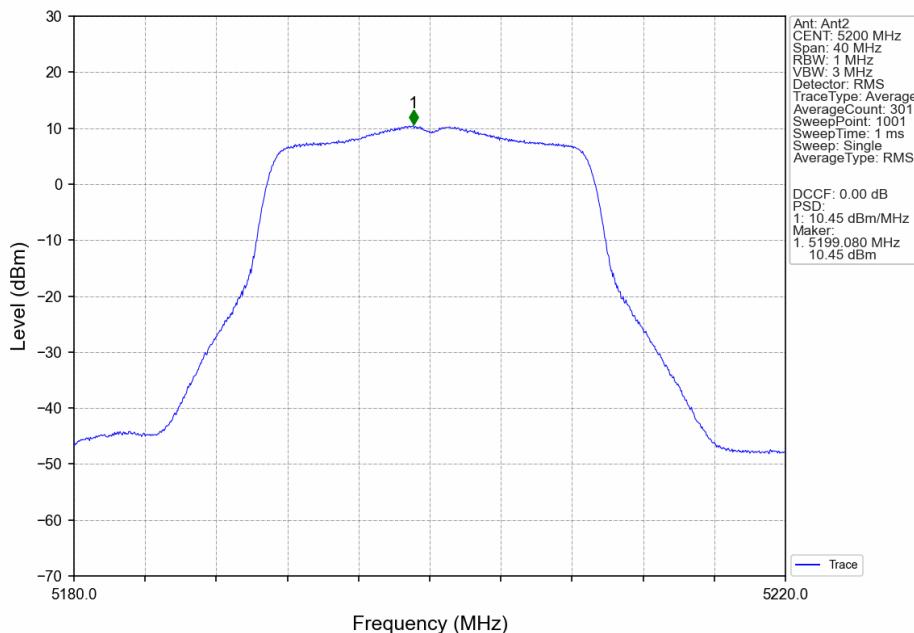
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802.11n(HT20)_LCH_5180MHz_Ant2_NTNV**802.11n(HT20)_LCH_5180MHz_MIMO_NTNV**

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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV**802.11n(HT20)_MCH_5200MHz_Ant2_NTNV**

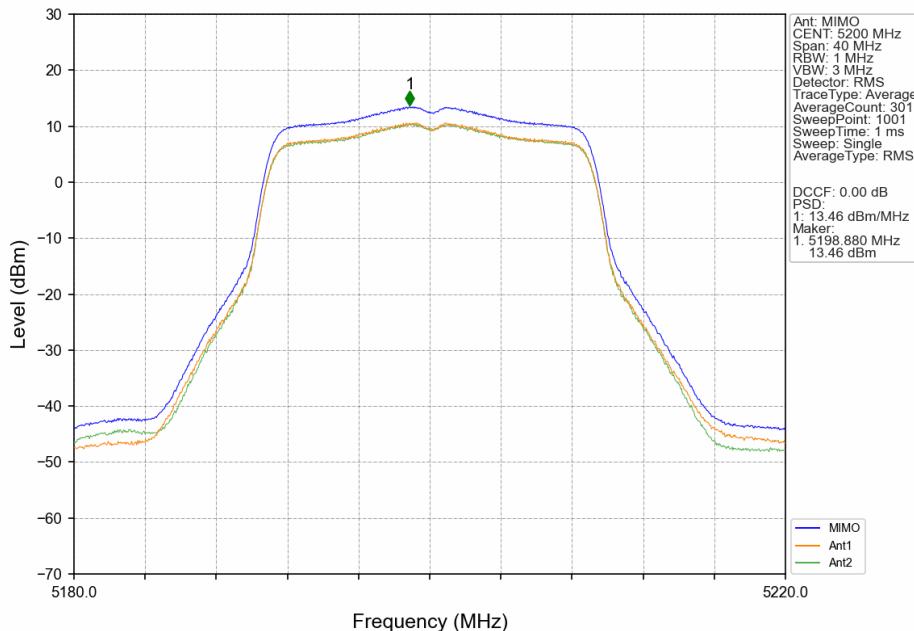
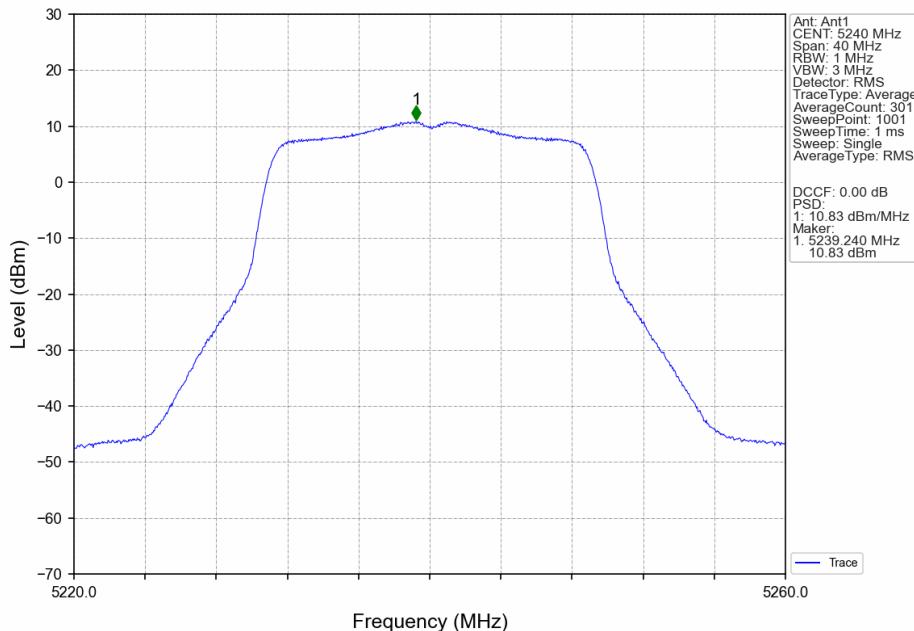
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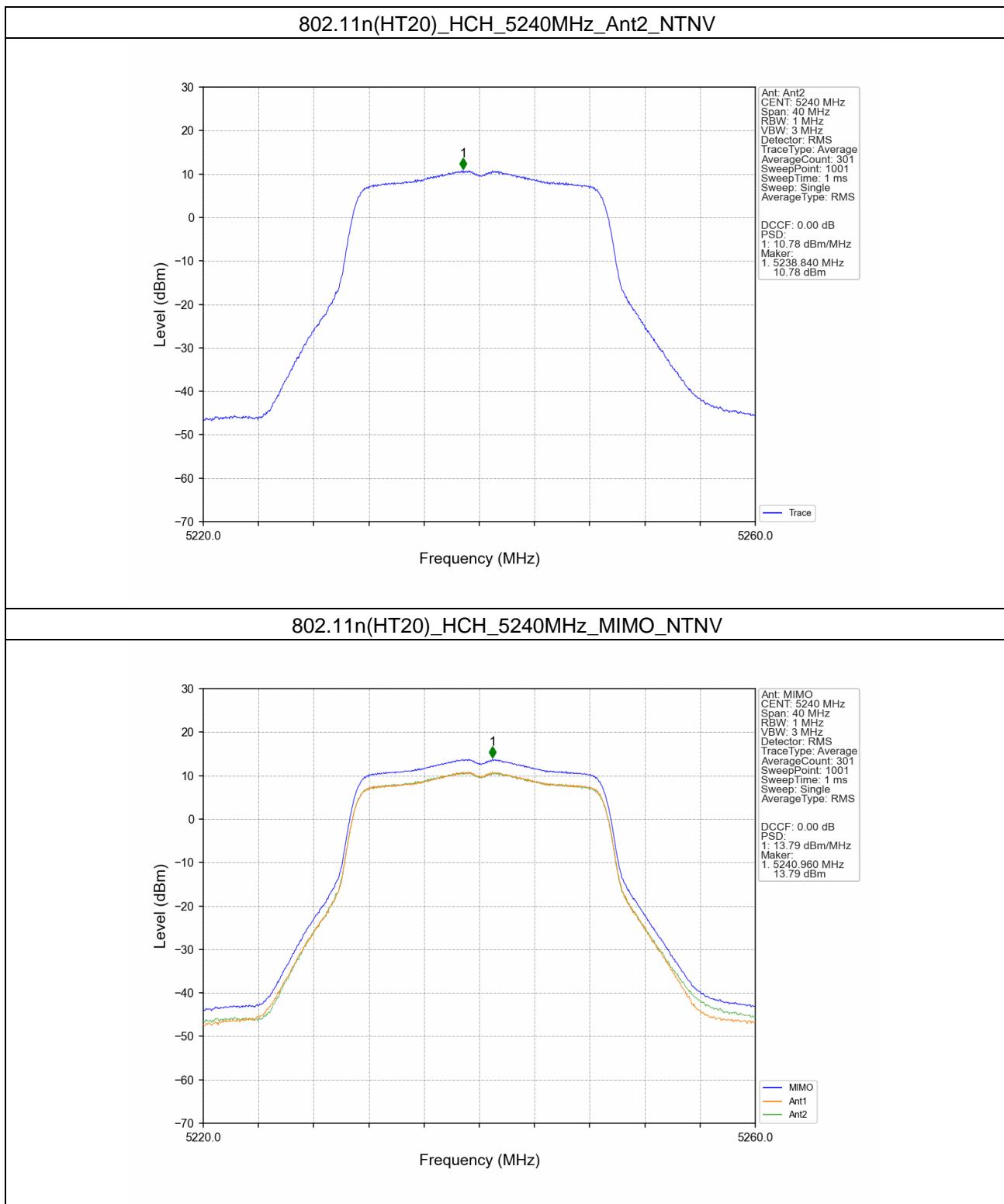
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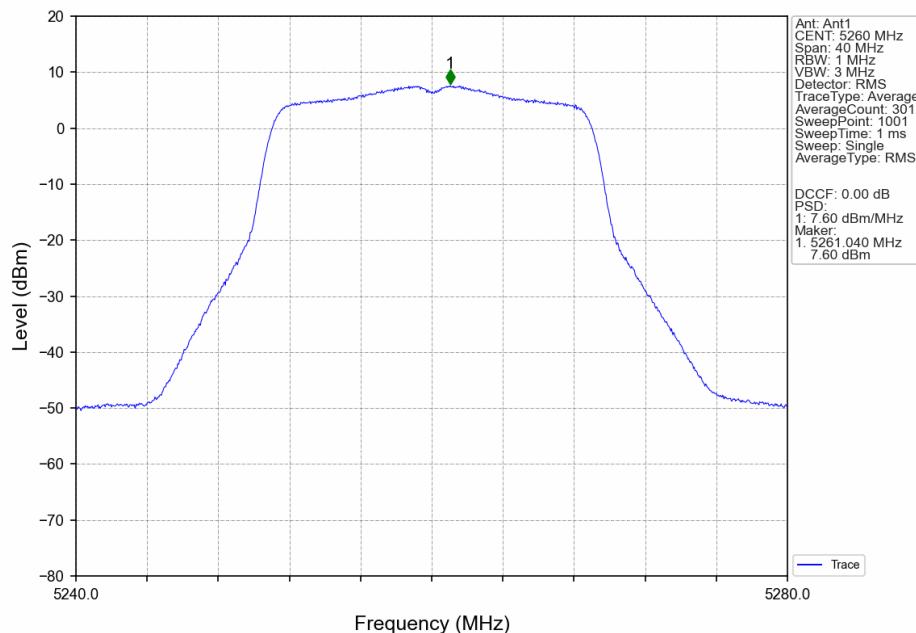
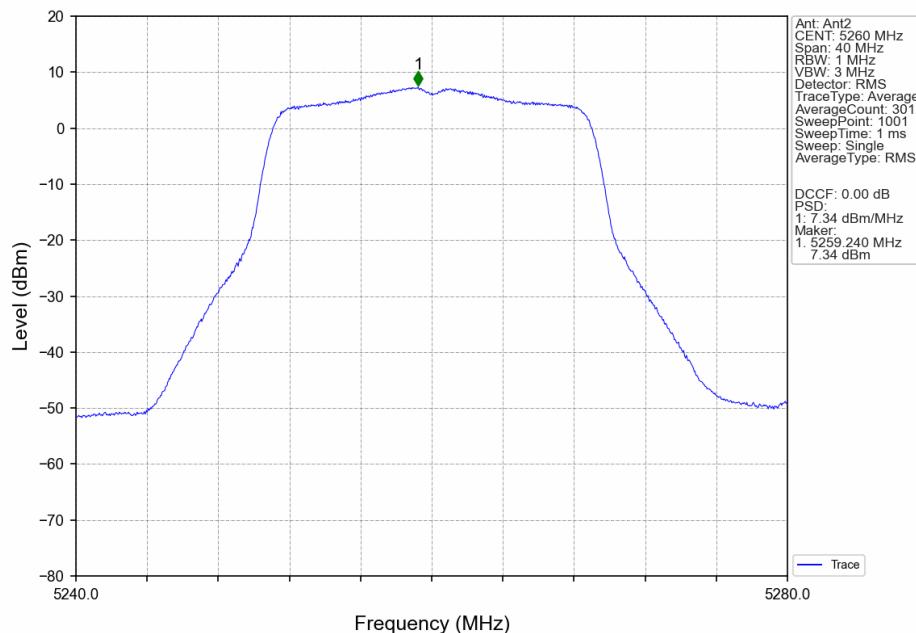
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802.11n(HT20)_MCH_5200MHz_MIMO_NTNV**802.11n(HT20)_HCH_5240MHz_Ant1_NTNV**

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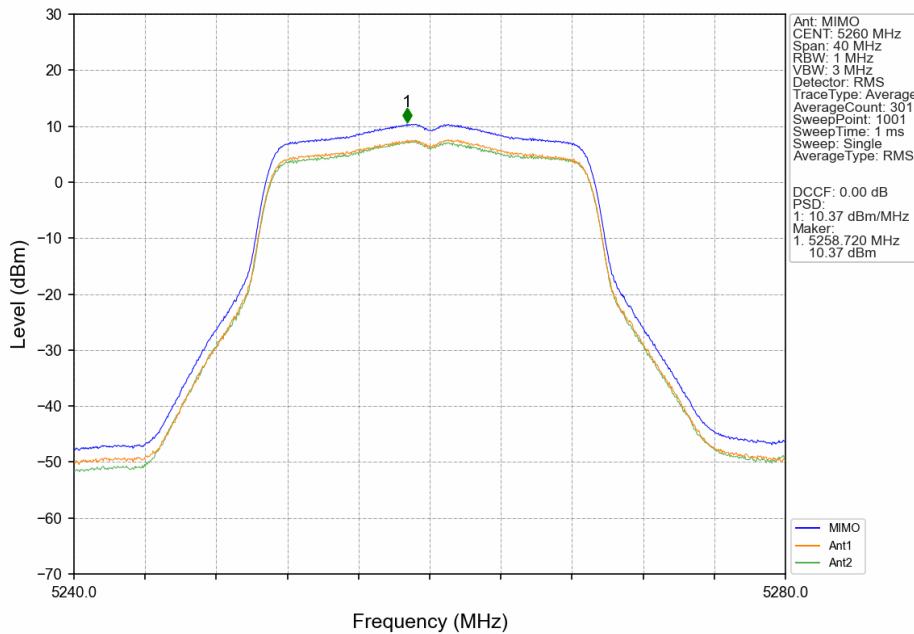
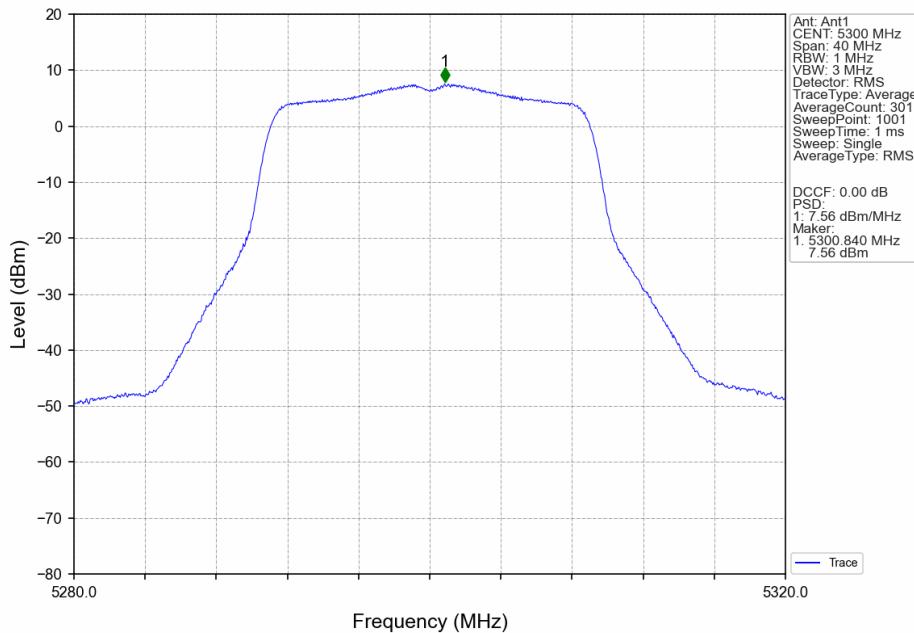
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV**802.11n(HT20)_LCH_5260MHz_Ant2_NTNV**

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802.11n(HT20)_LCH_5260MHz_MIMO_NTNV**802.11n(HT20)_MCH_5300MHz_Ant1_NTNV**

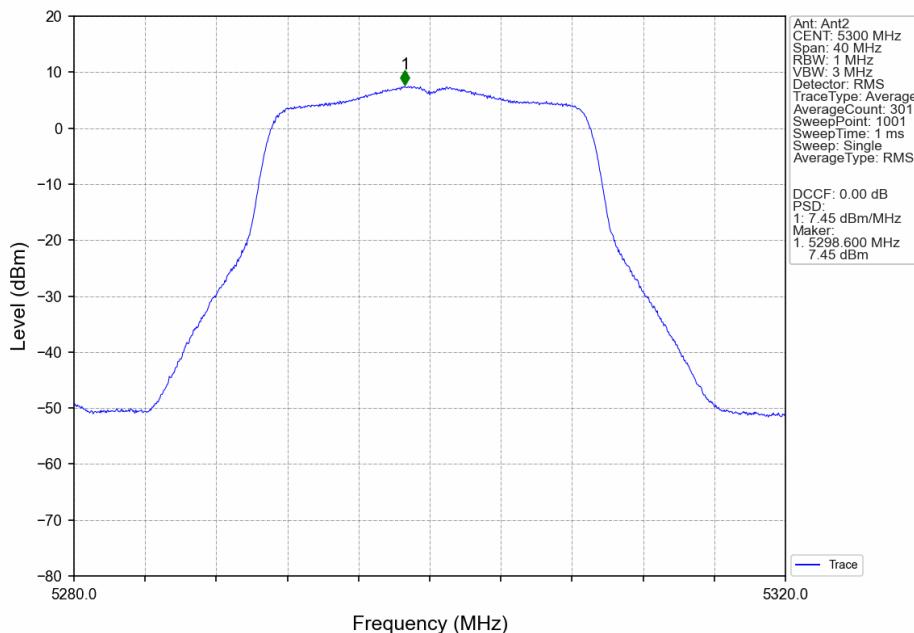
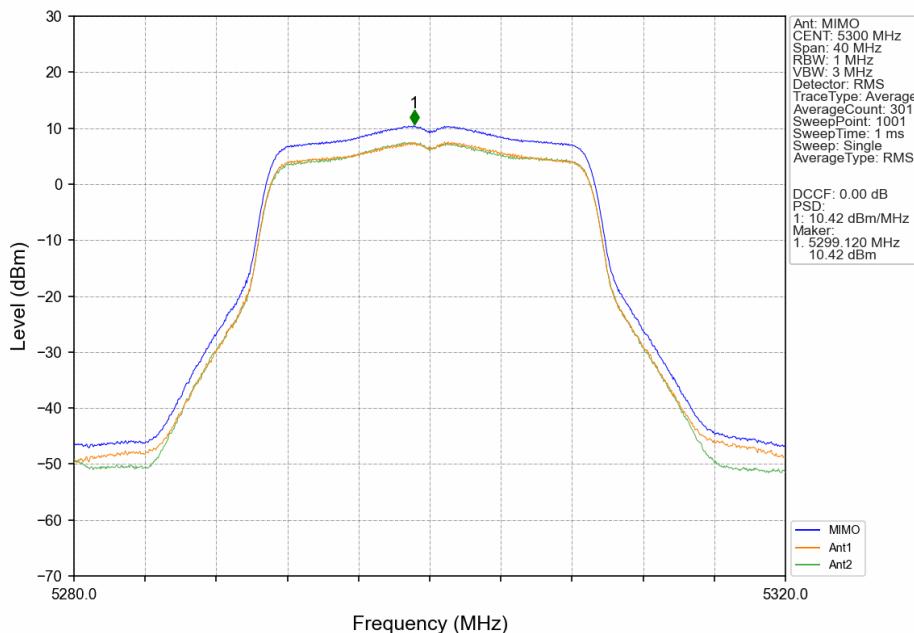
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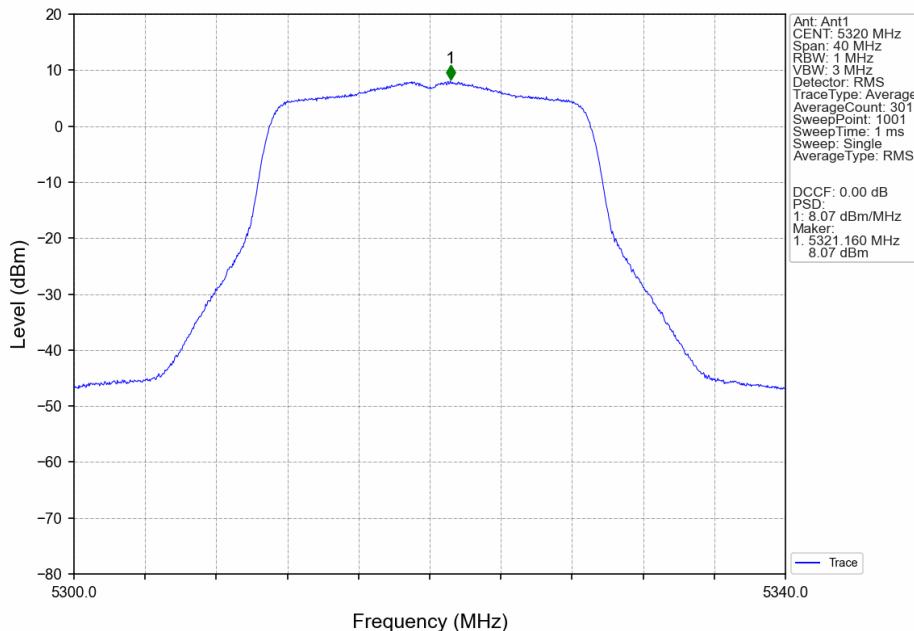
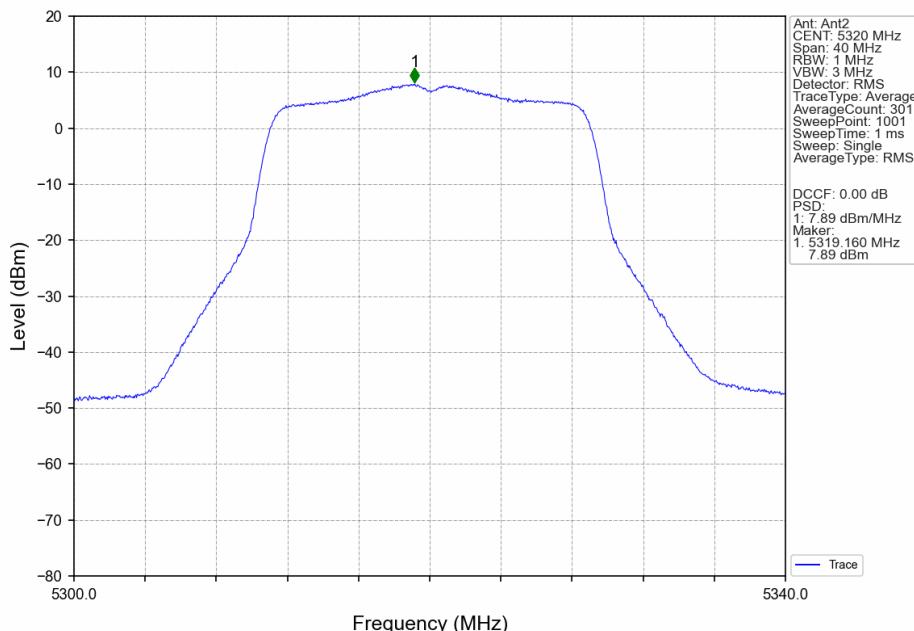
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802.11n(HT20)_MCH_5300MHz_Ant2_NTNV**802.11n(HT20)_MCH_5300MHz_MIMO_NTNV**

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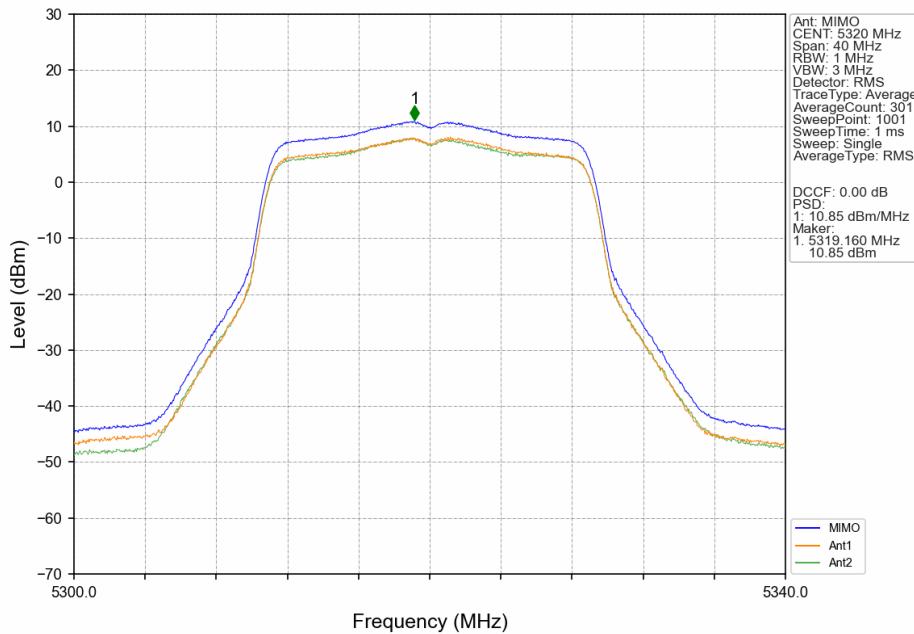
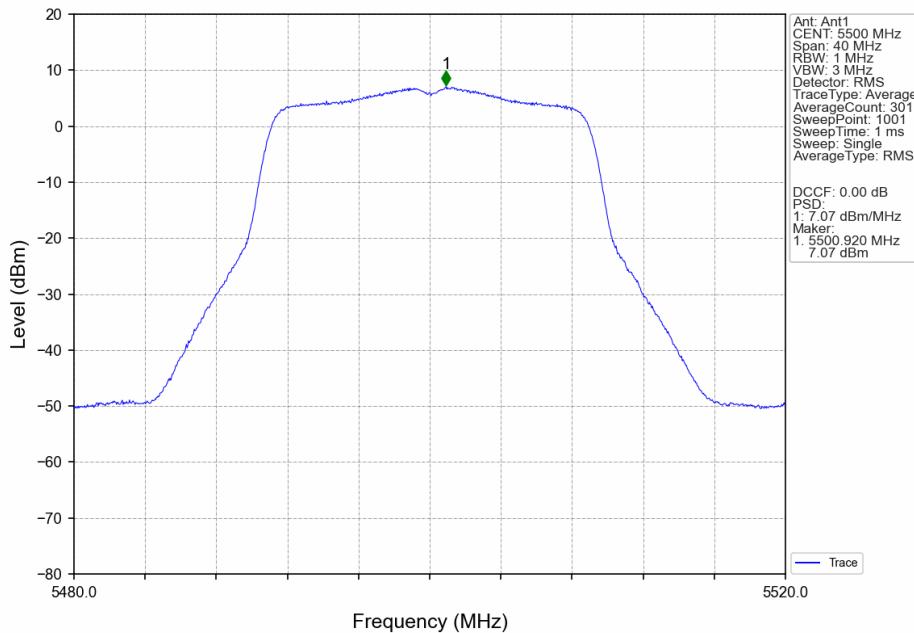
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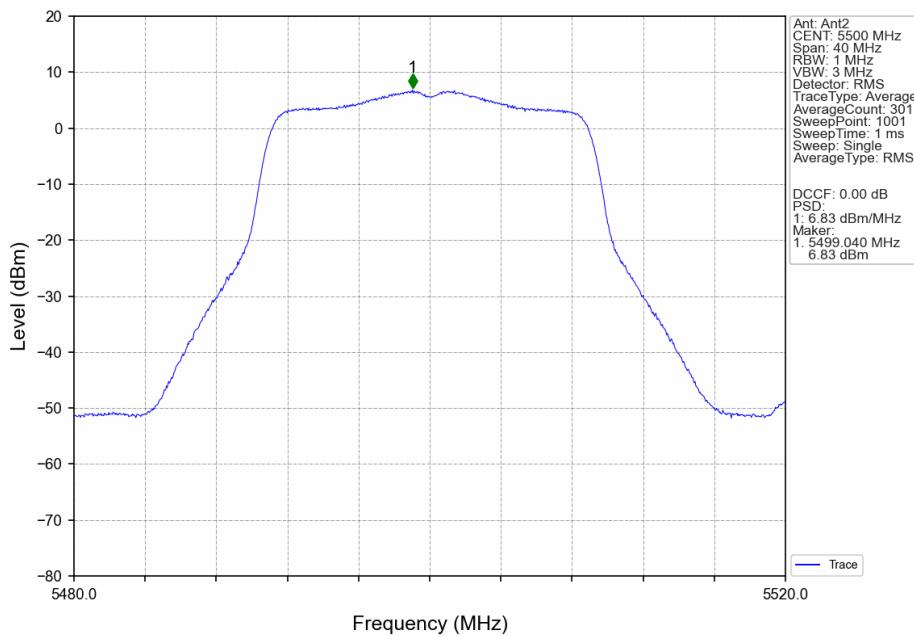
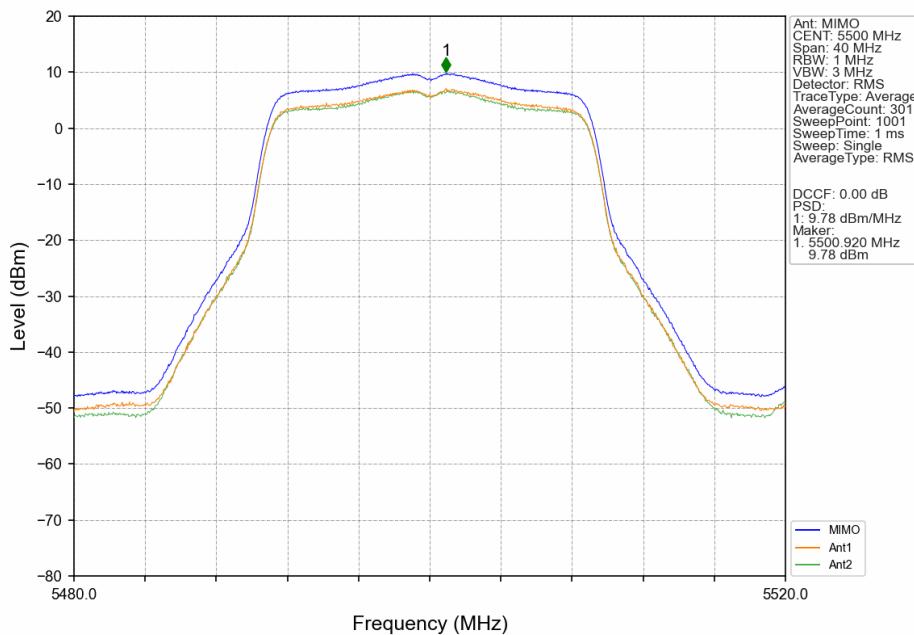
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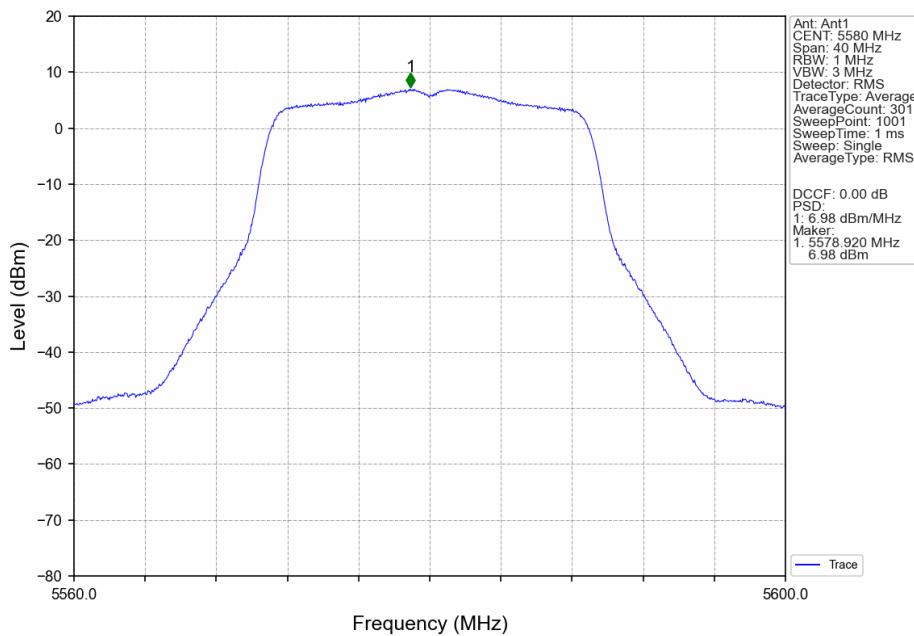
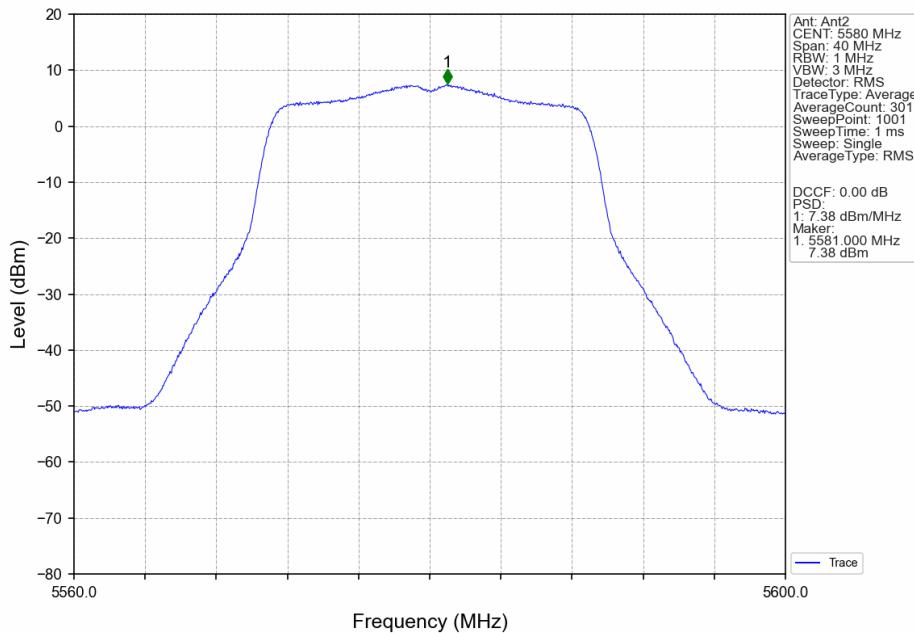
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802.11n(HT20)_HCH_5320MHz_MIMO_NTNV**802.11n(HT20)_LCH_5500MHz_Ant1_NTNV**

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802.11n(HT20)_LCH_5500MHz_Ant2_NTNV**802.11n(HT20)_LCH_5500MHz_MIMO_NTNV**

802.11n(HT20)_MCH_5580MHz_Ant1_NTNV**802.11n(HT20)_MCH_5580MHz_Ant2_NTNV**

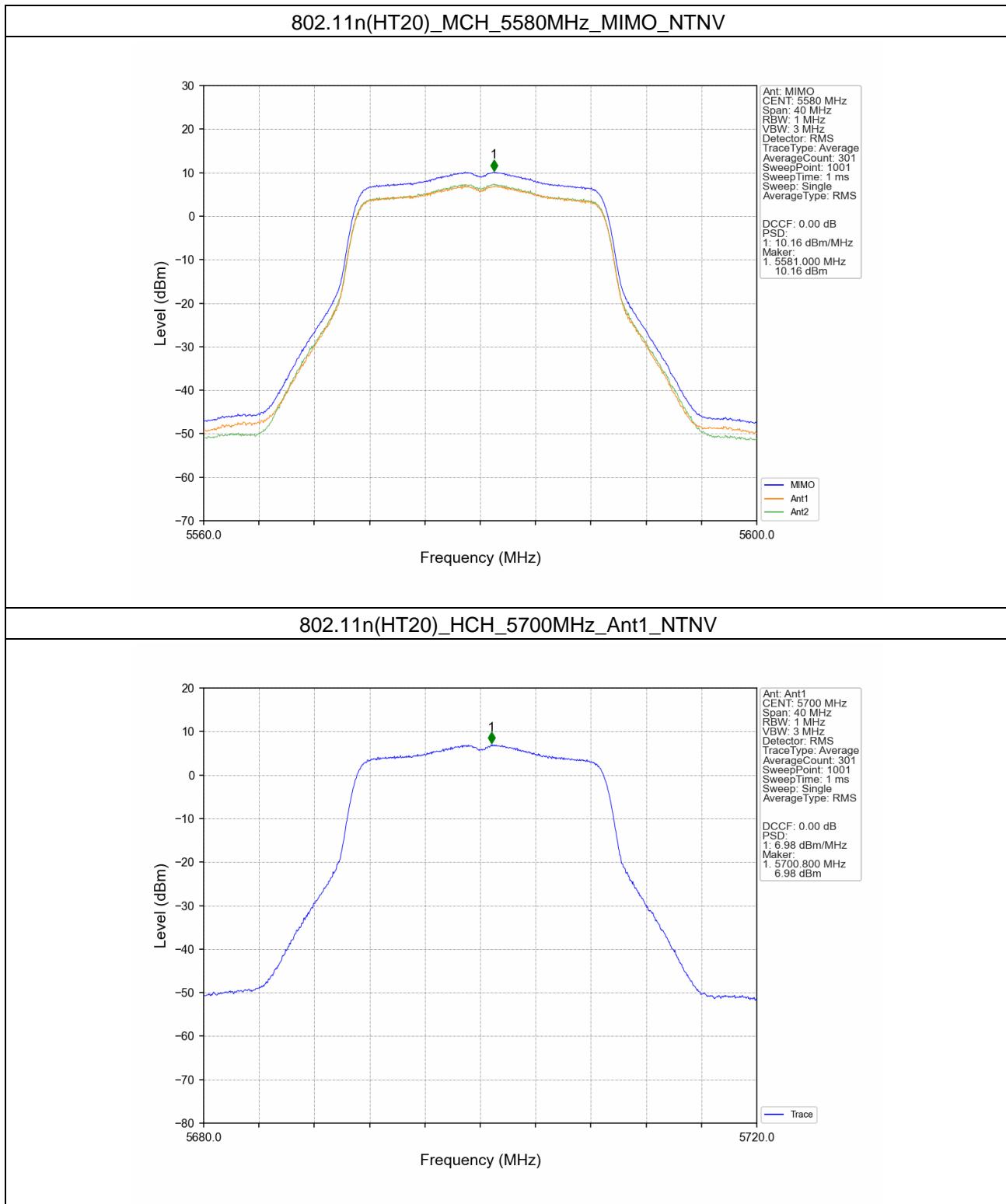
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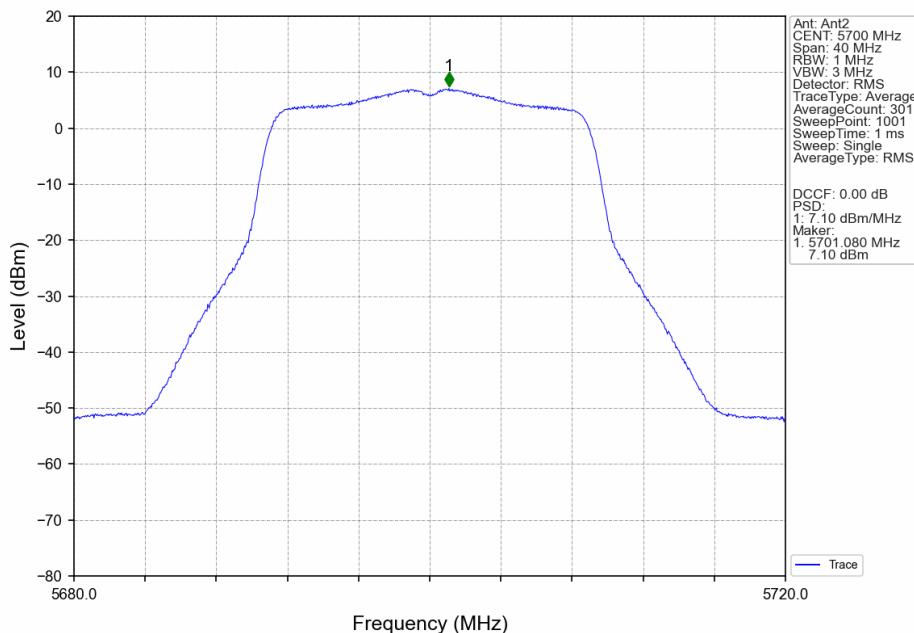
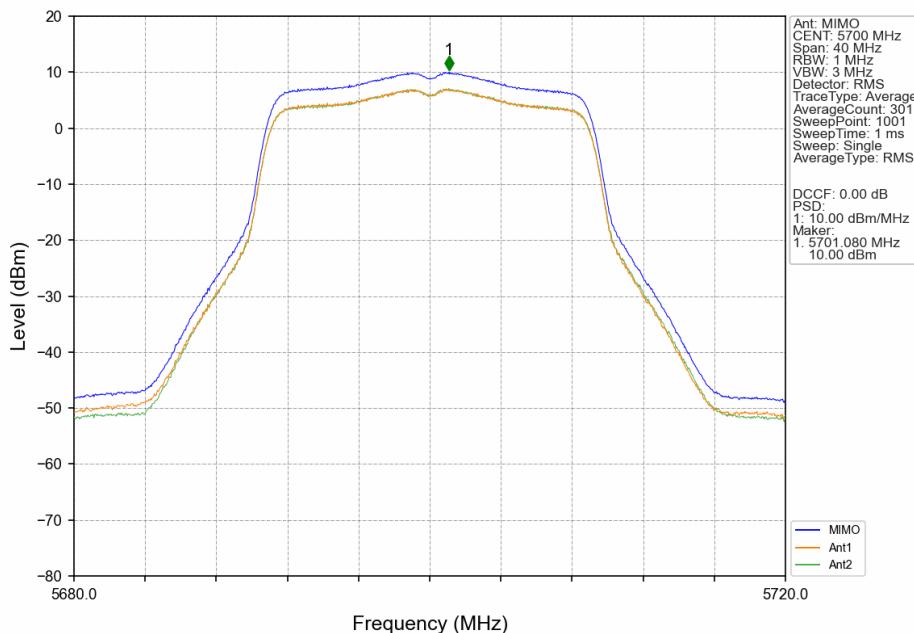
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802.11n(HT20)_HCH_5700MHz_Ant2_NTNV**802.11n(HT20)_HCH_5700MHz_MIMO_NTNV**

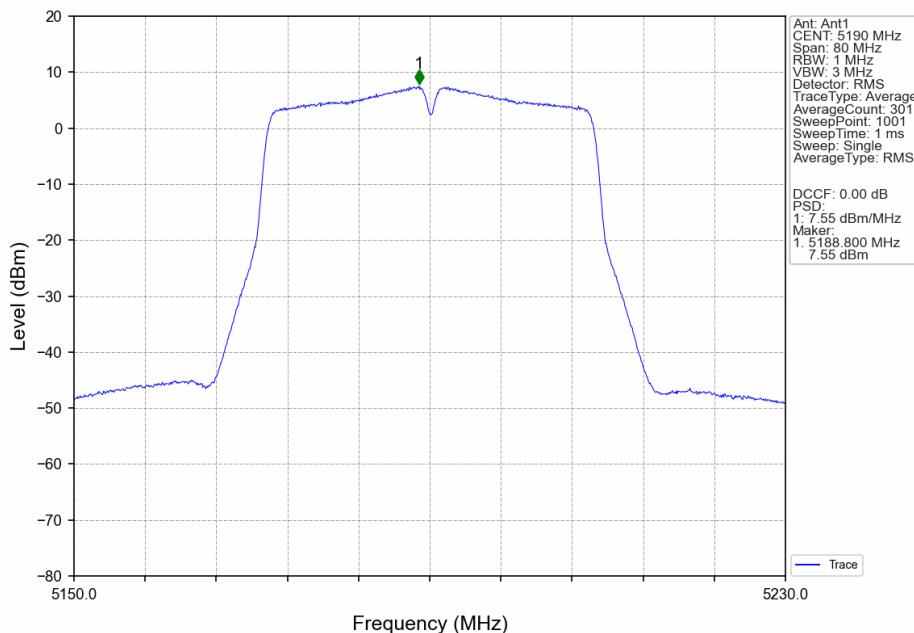
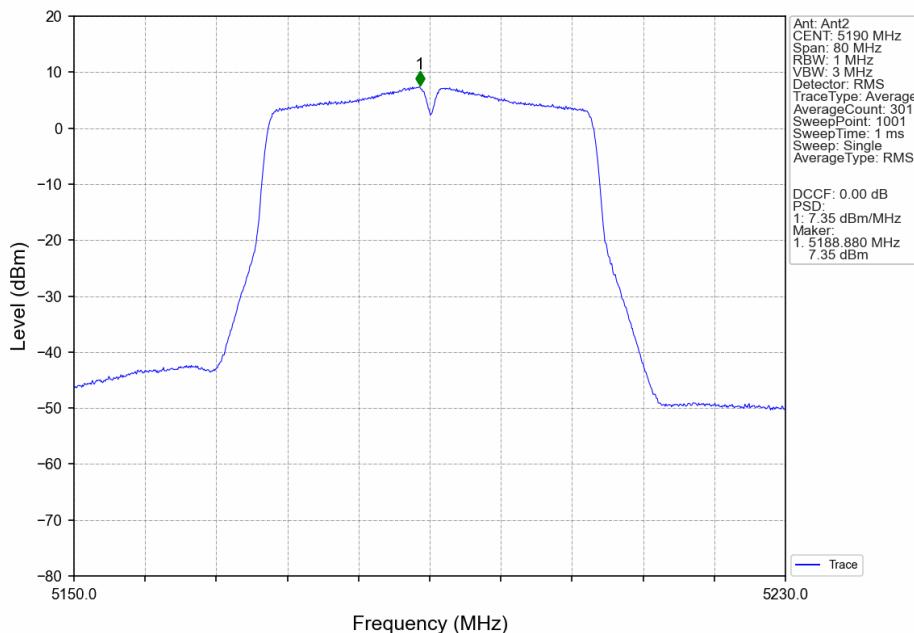
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV**802.11n(HT40)_LCH_5190MHz_Ant2_NTNV**

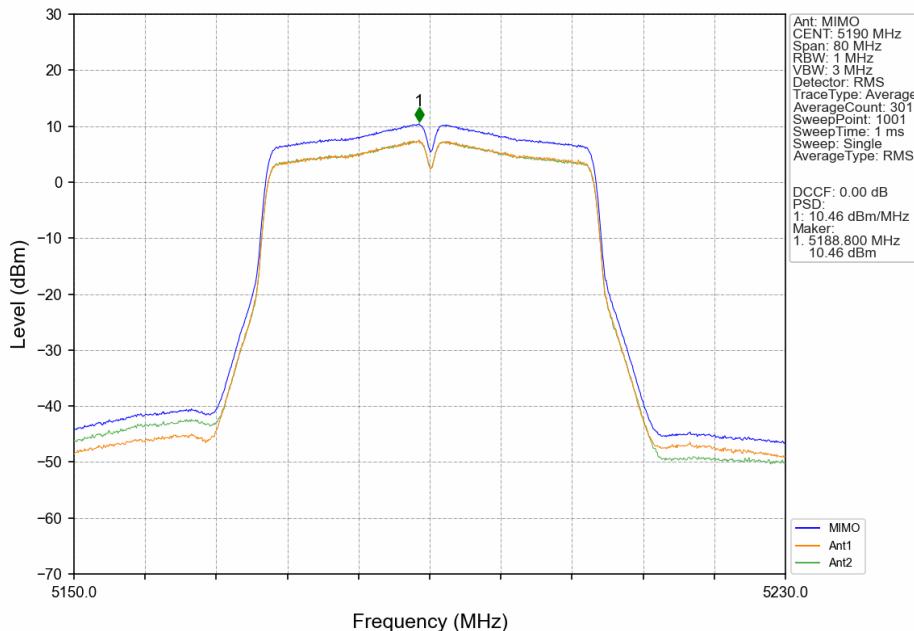
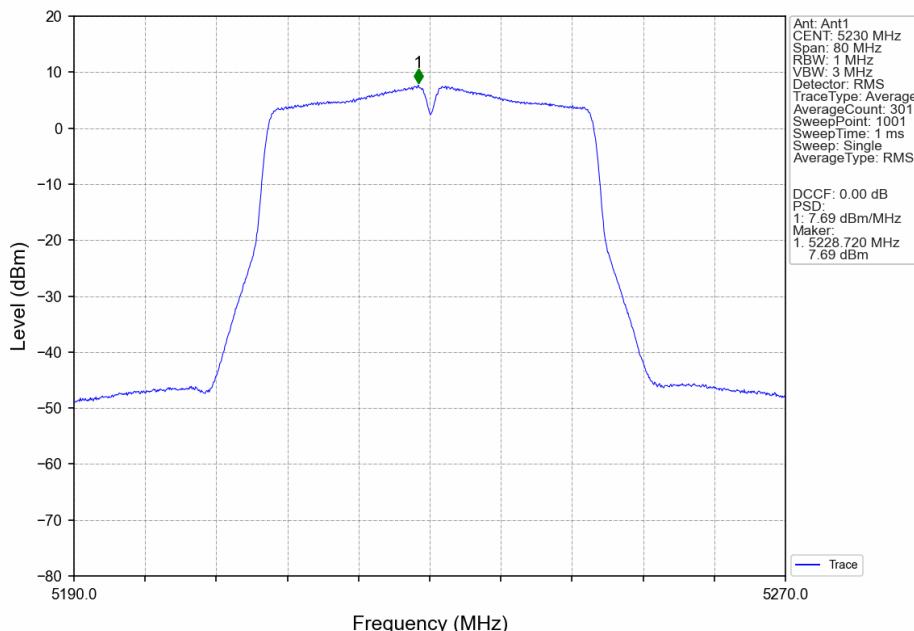
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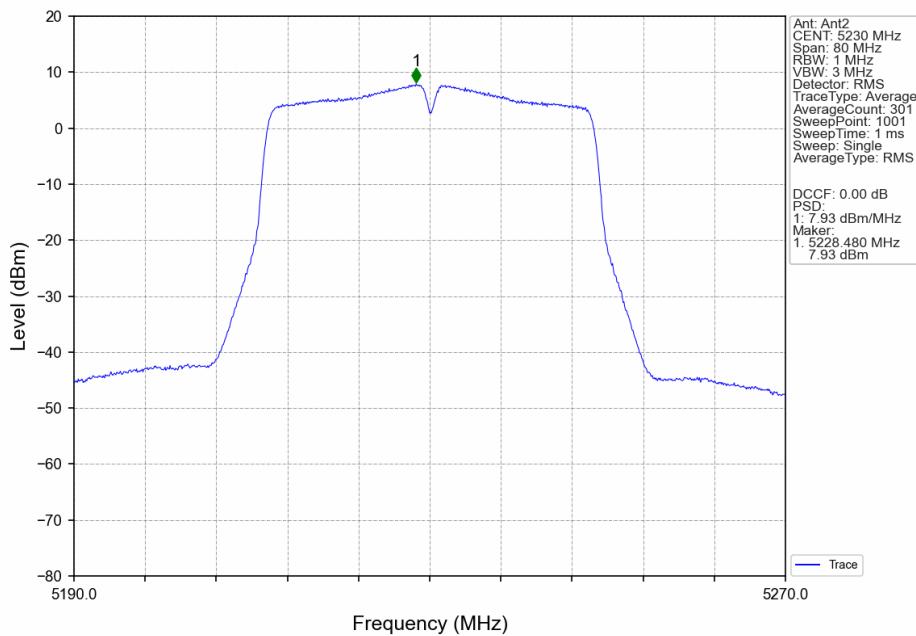
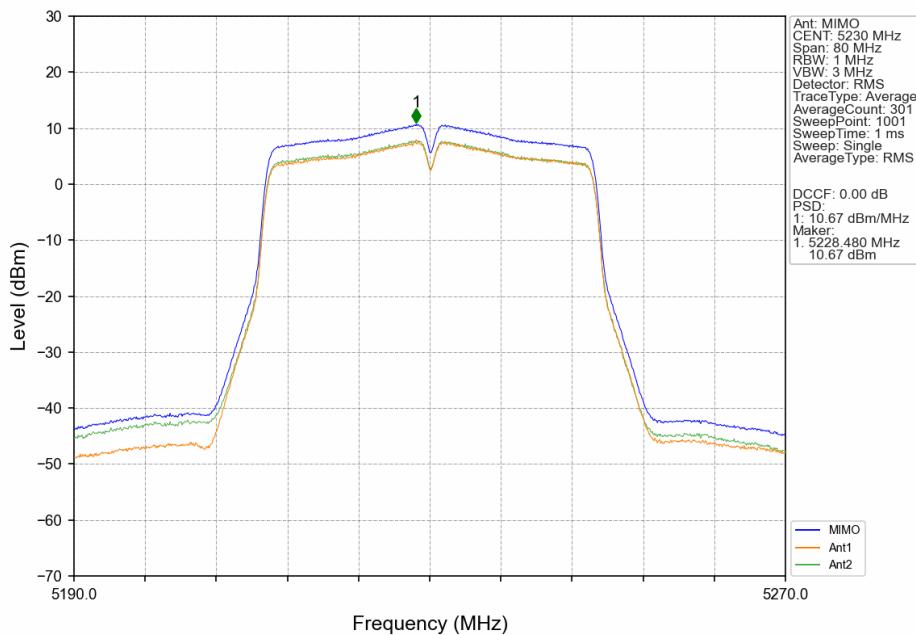
802.11n(HT40)_LCH_5190MHz_MIMO_NTNV**802.11n(HT40)_HCH_5230MHz_Ant1_NTNV**

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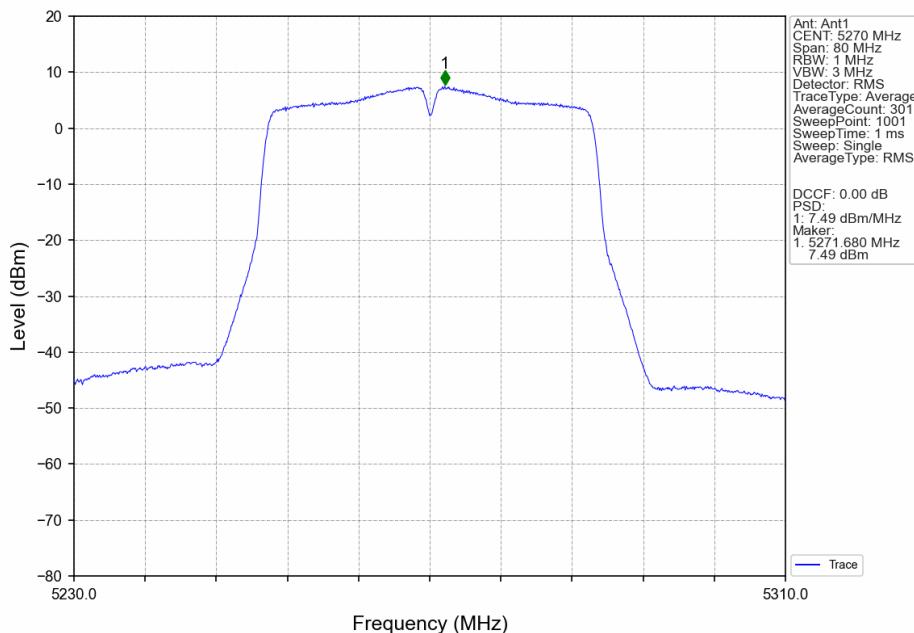
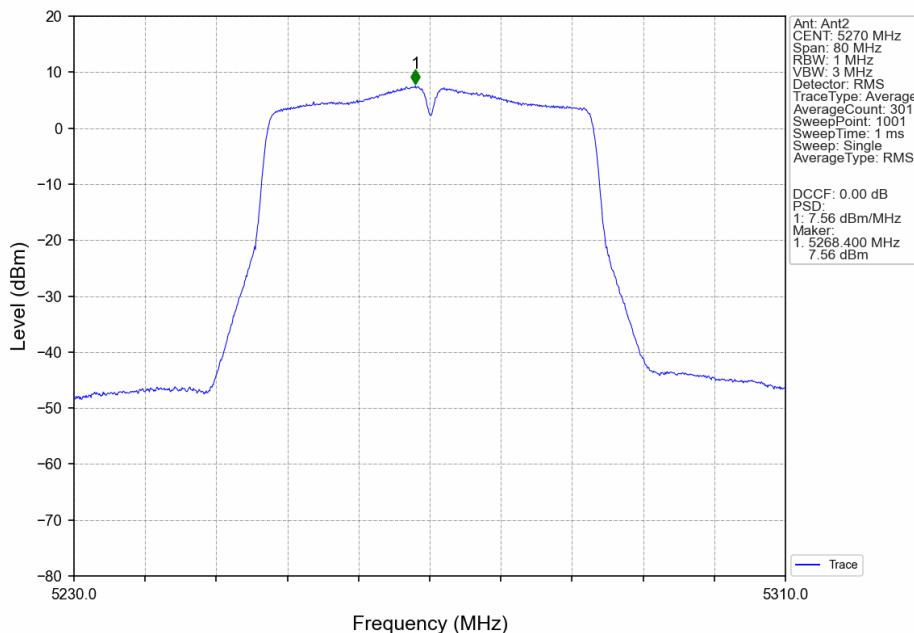
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV**802.11n(HT40)_HCH_5230MHz_MIMO_NTNV**

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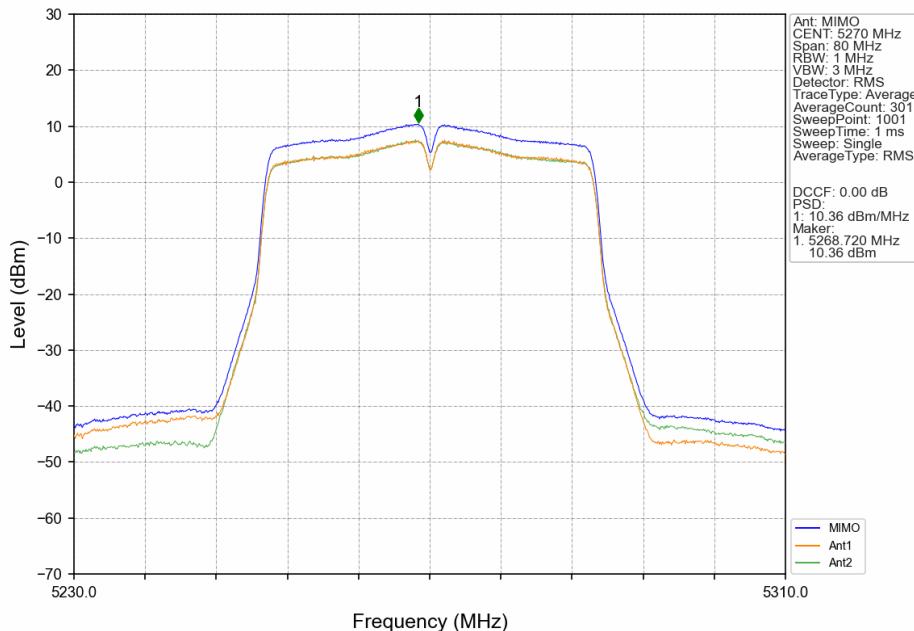
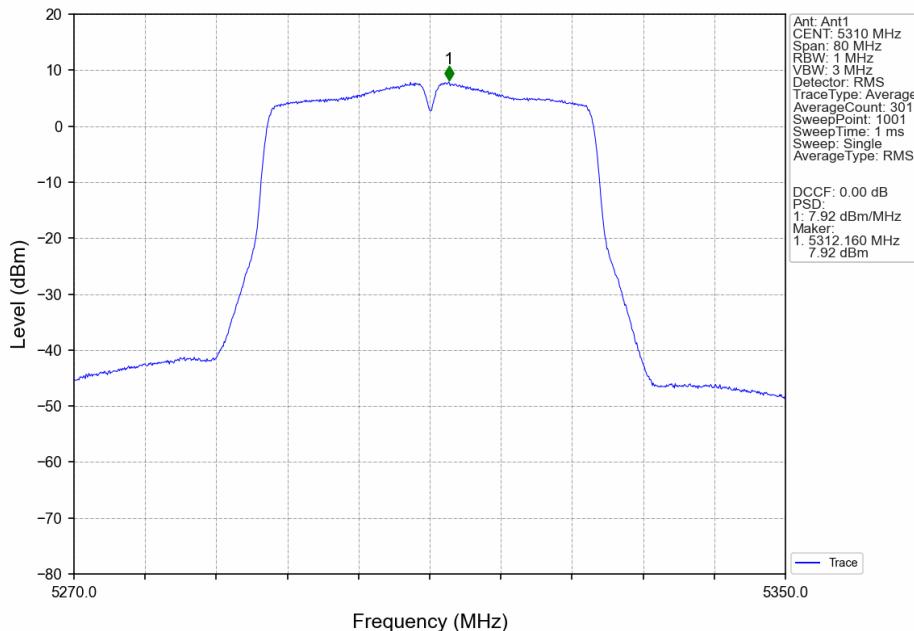
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV**802.11n(HT40)_LCH_5270MHz_Ant2_NTNV**

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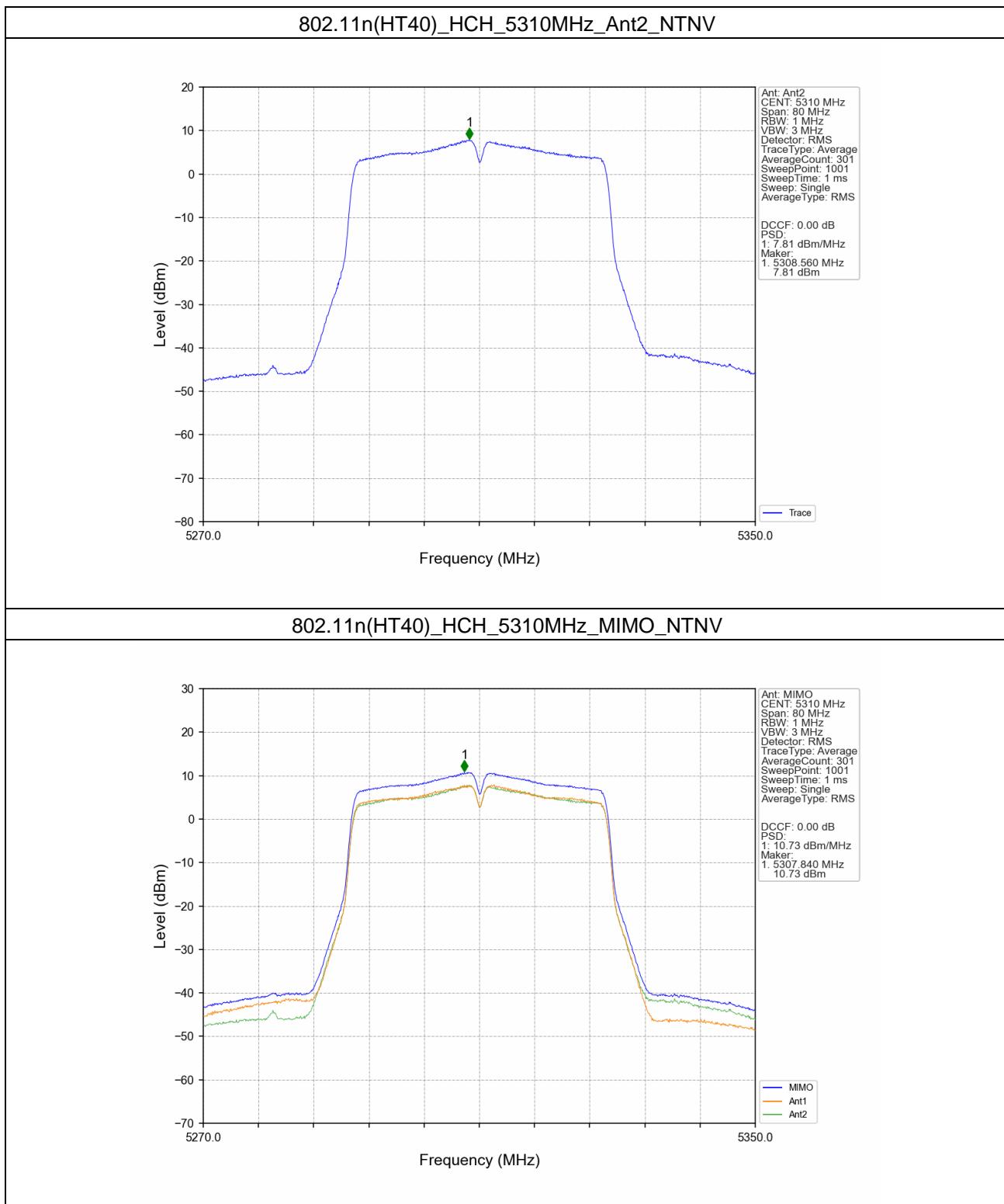
802.11n(HT40)_LCH_5270MHz_MIMO_NTNV**802.11n(HT40)_HCH_5310MHz_Ant1_NTNV**

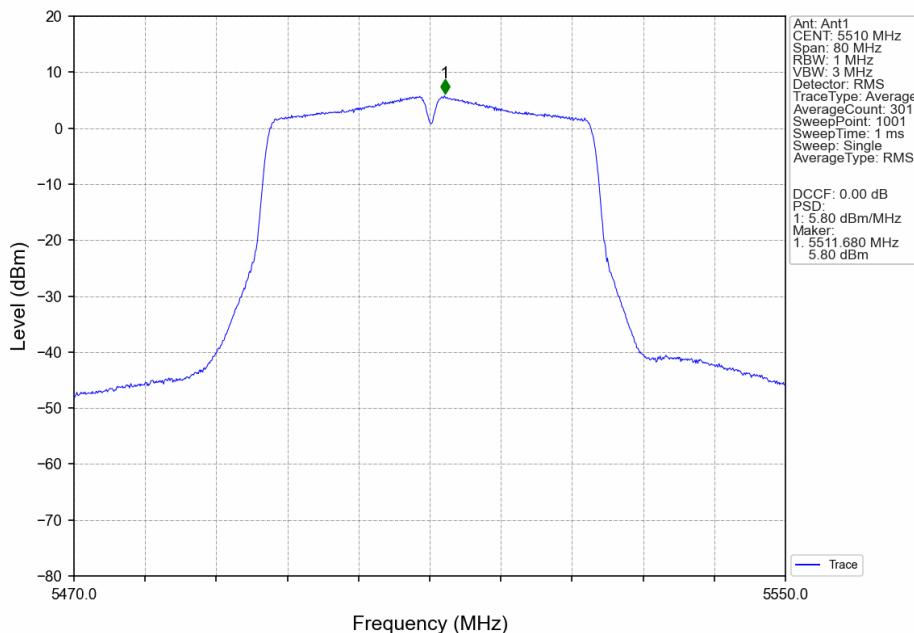
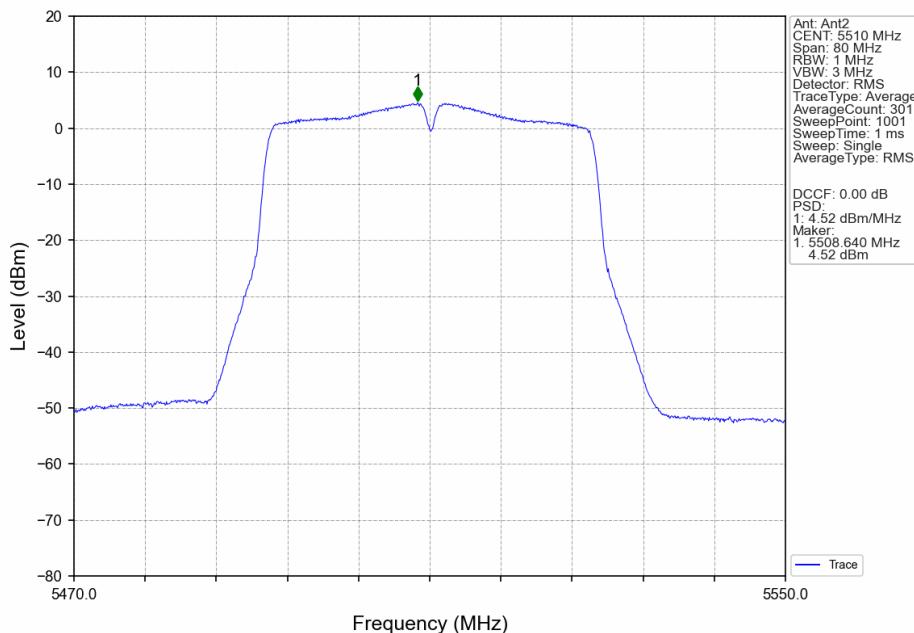
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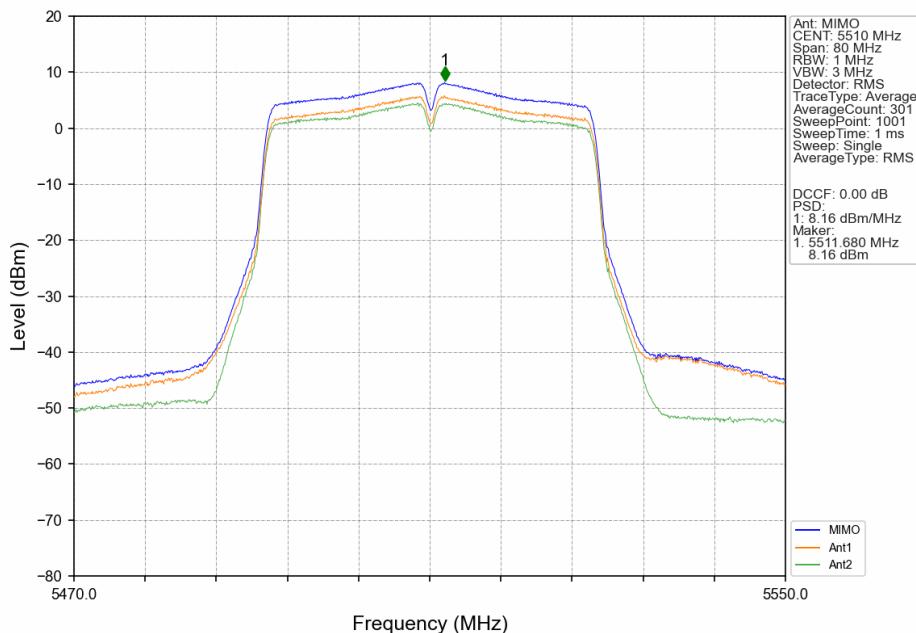
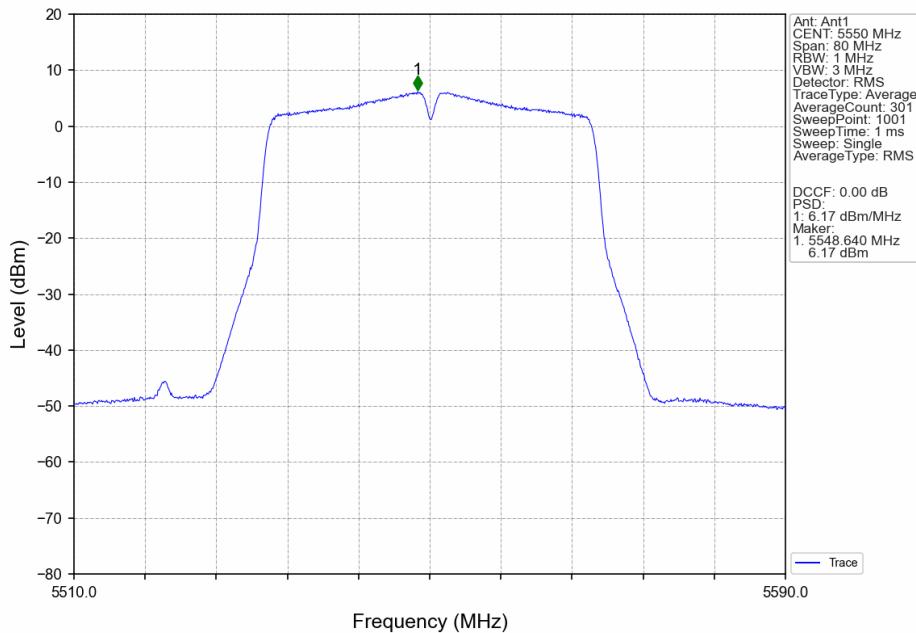
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV**802.11n(HT40)_LCH_5510MHz_Ant2_NTNV**

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802.11n(HT40)_LCH_5510MHz_MIMO_NTNV**802.11n(HT40)_MCH_5550MHz_Ant1_NTNV**

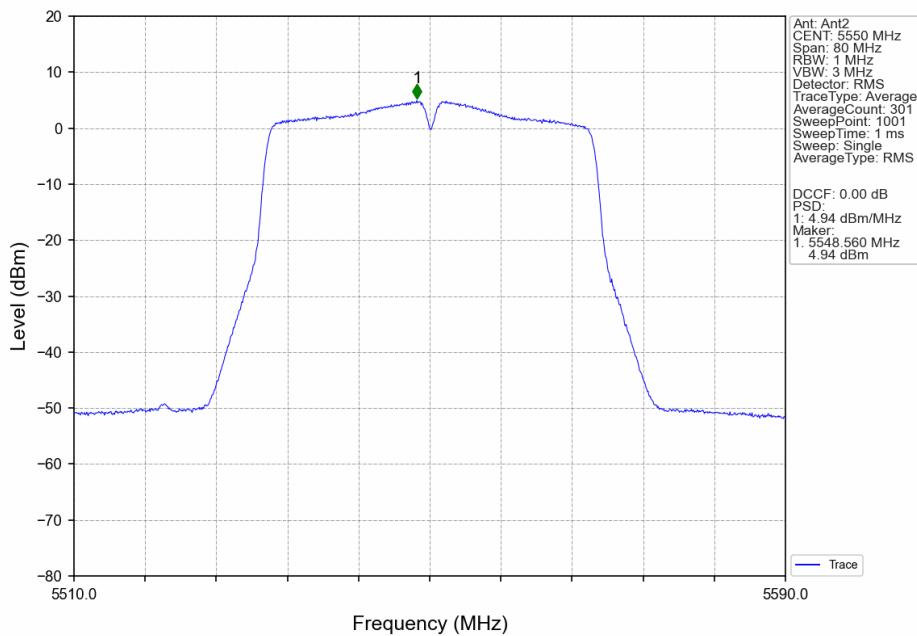
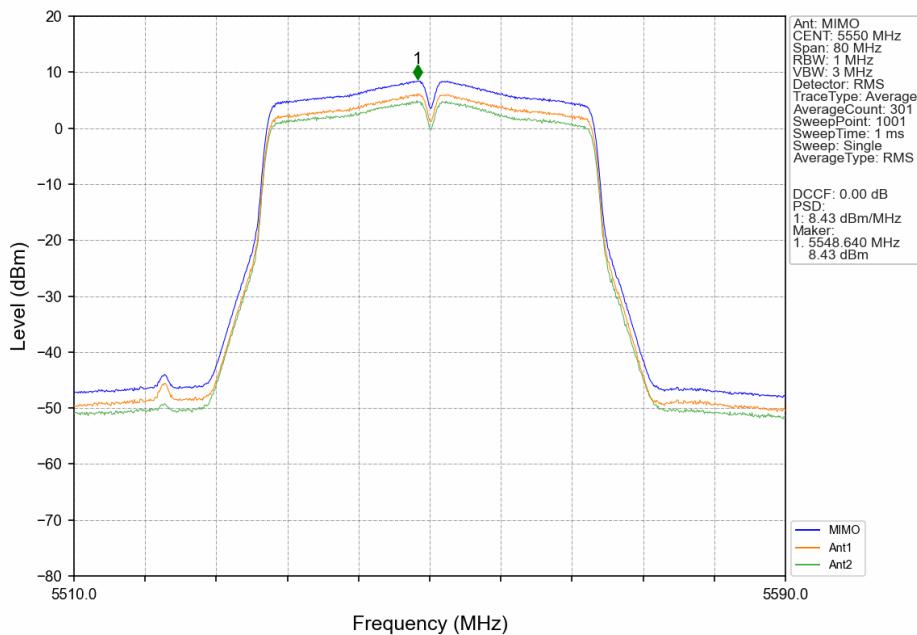
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802.11n(HT40)_MCH_5550MHz_Ant2_NTNV**802.11n(HT40)_MCH_5550MHz_MIMO_NTNV**

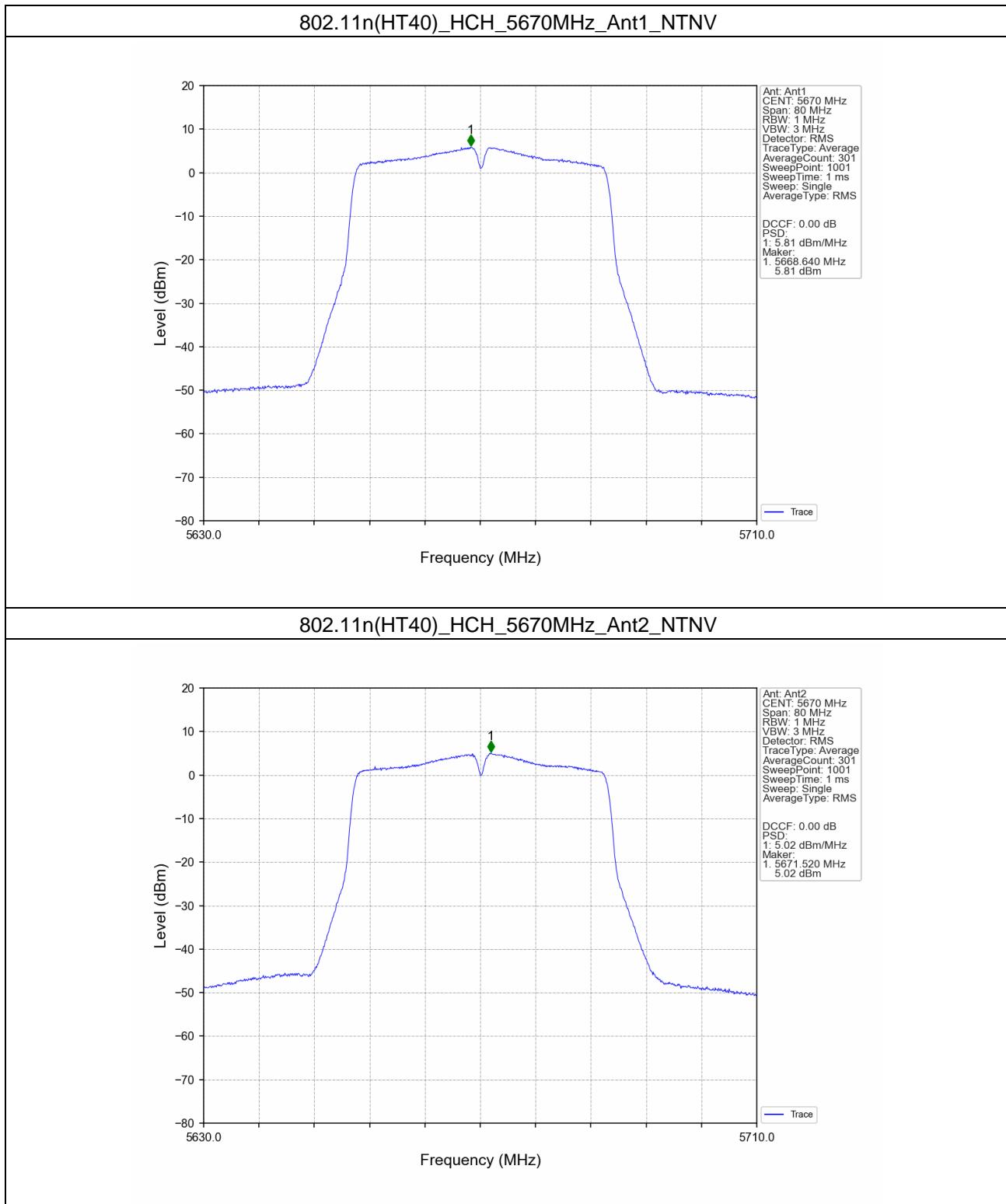
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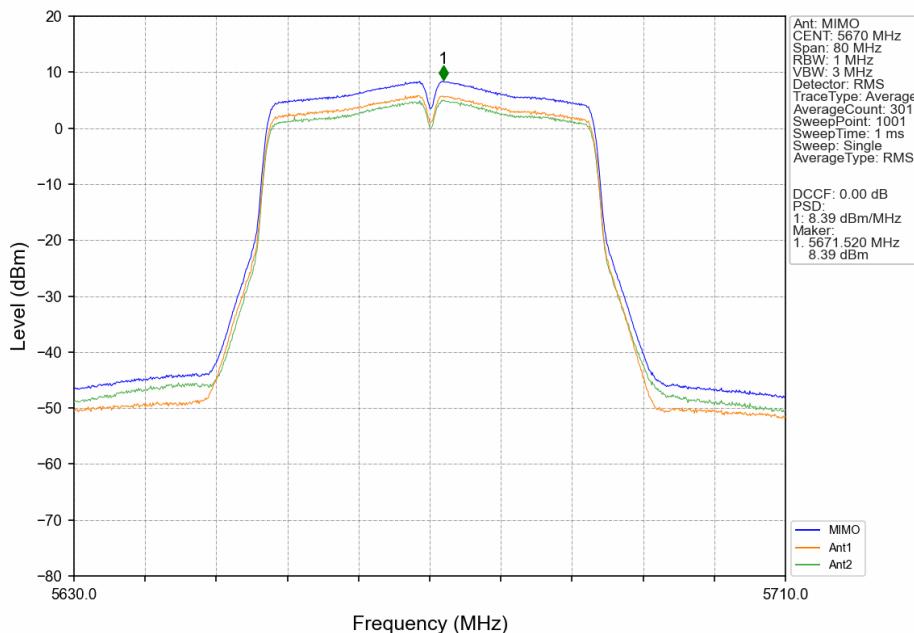
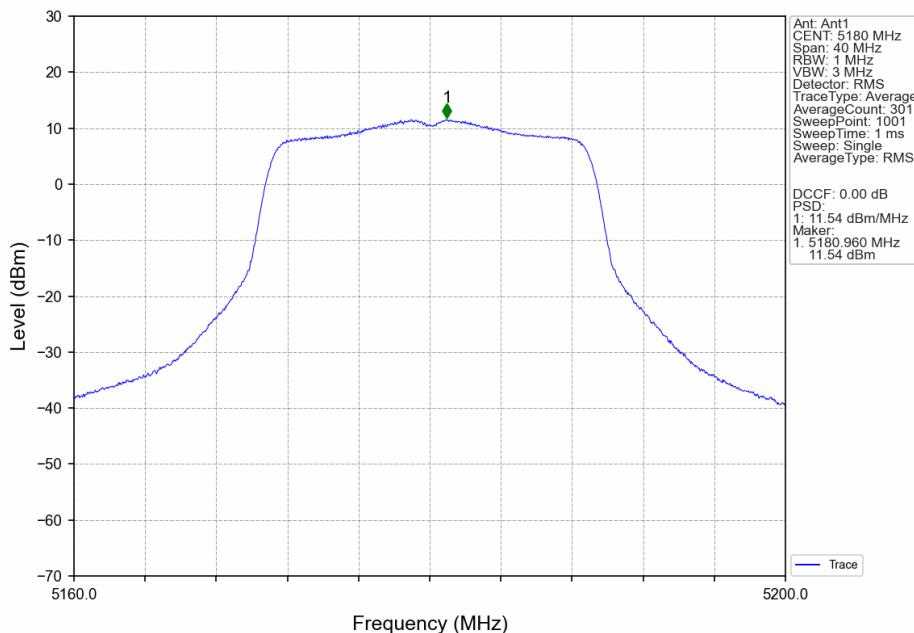
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802.11n(HT40)_HCH_5670MHz_MIMO_NTNV**802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV**

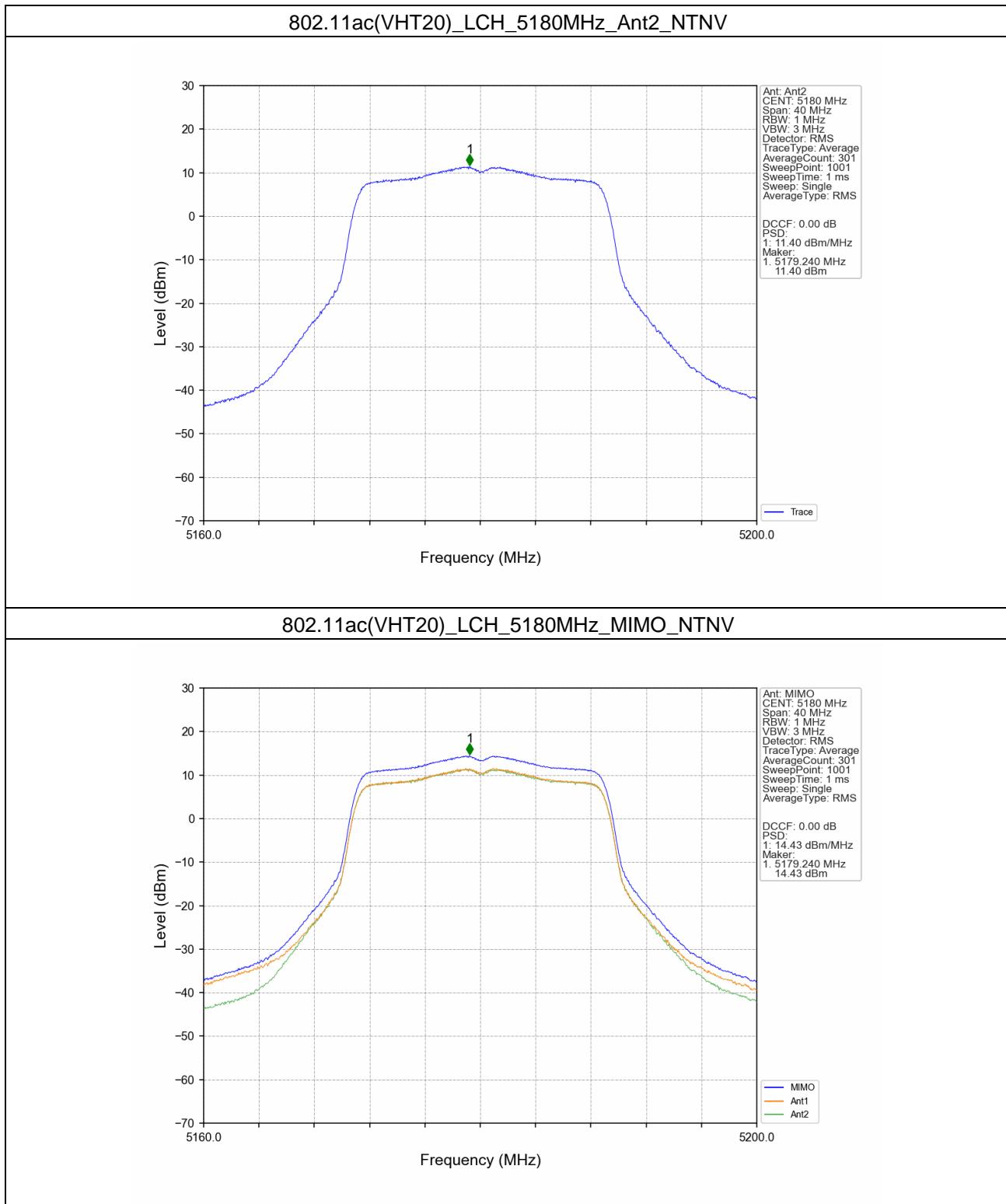
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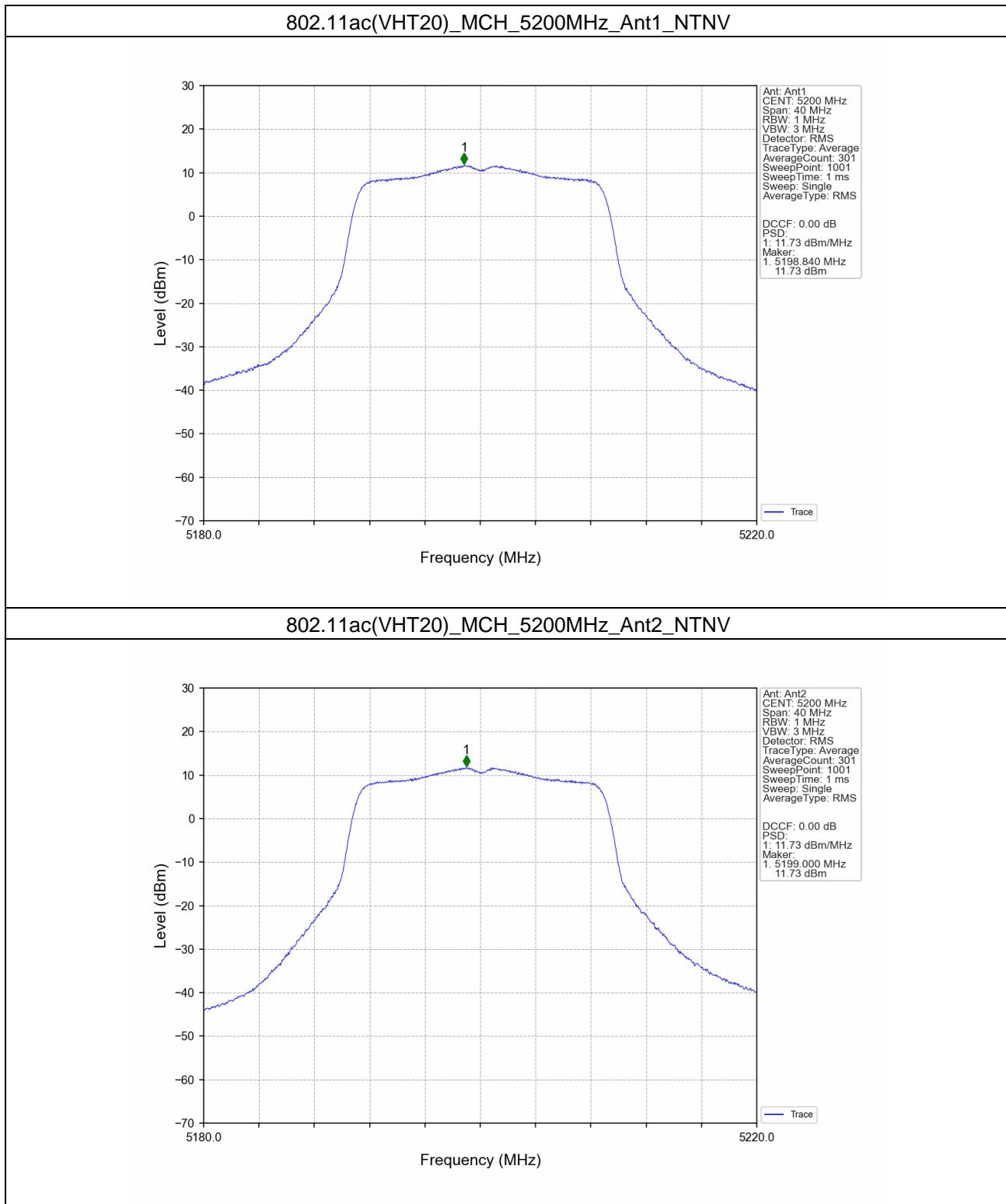
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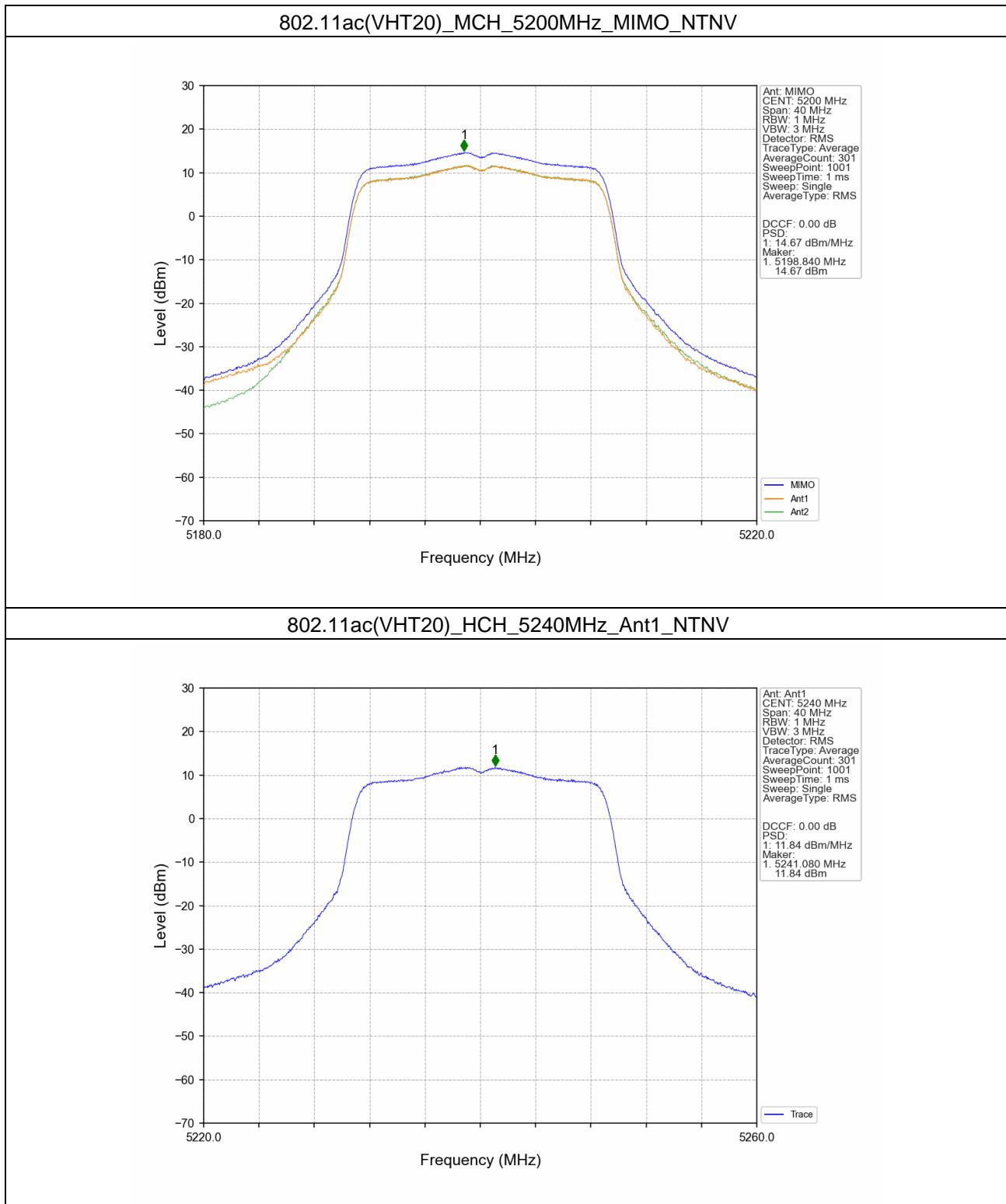
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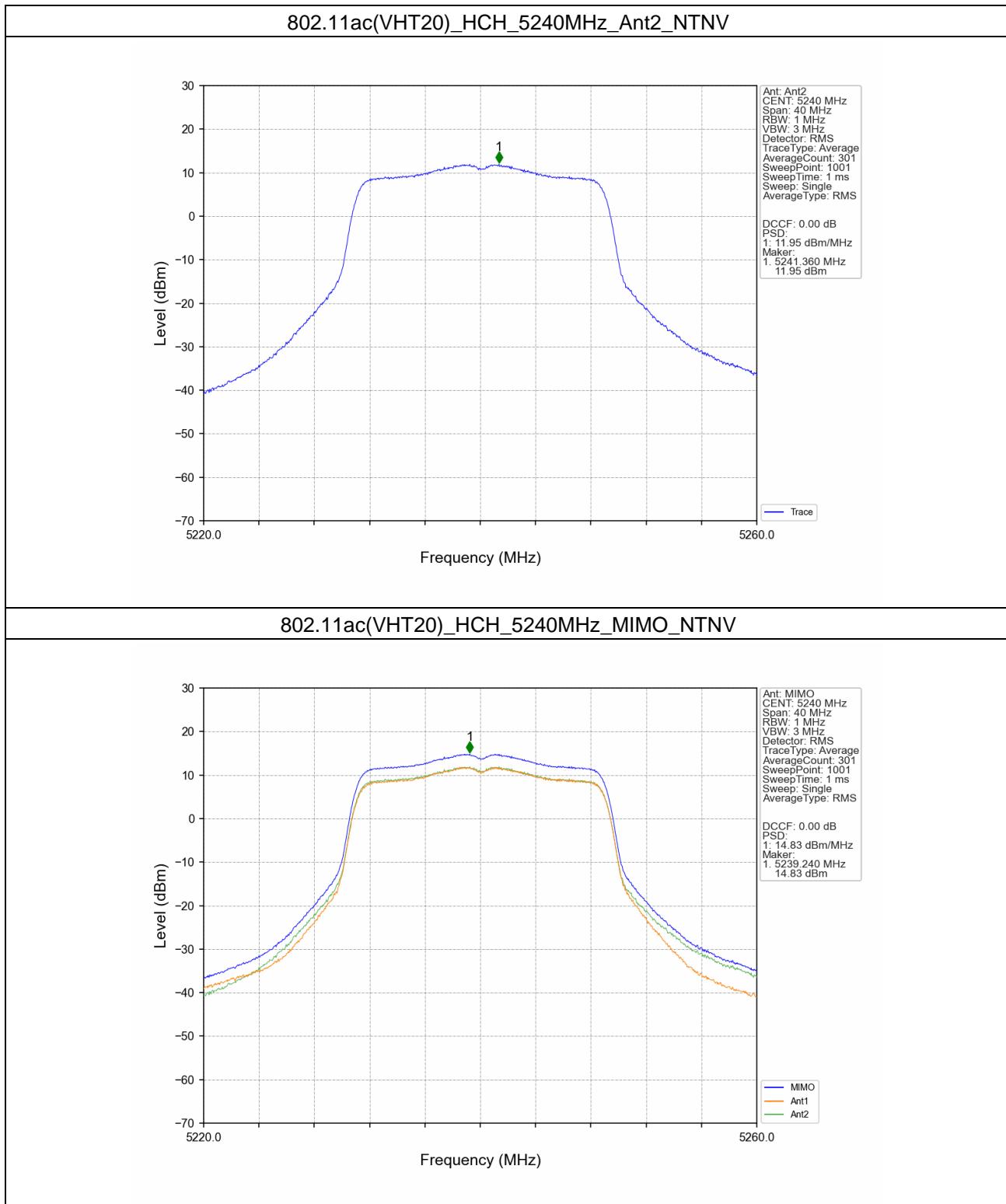
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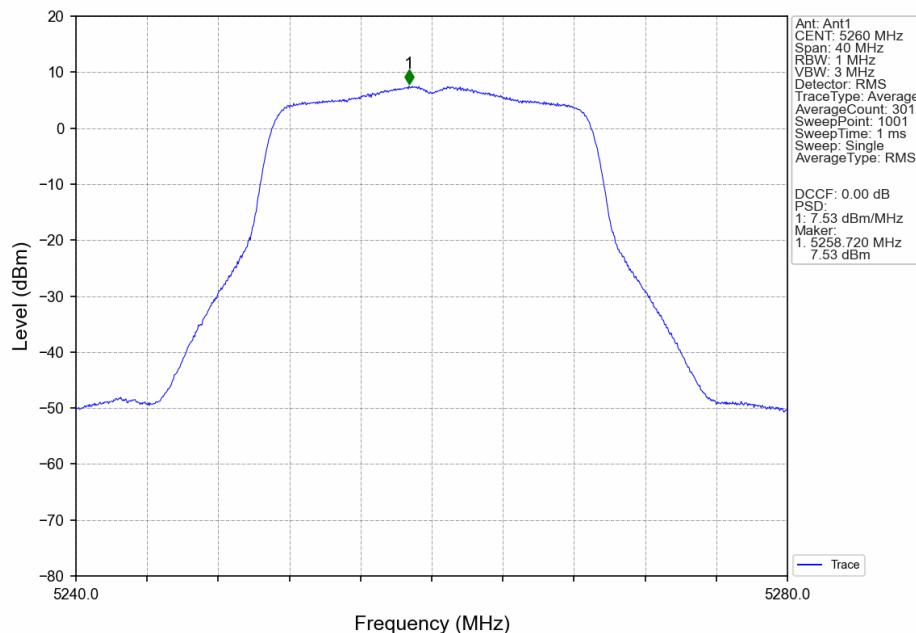
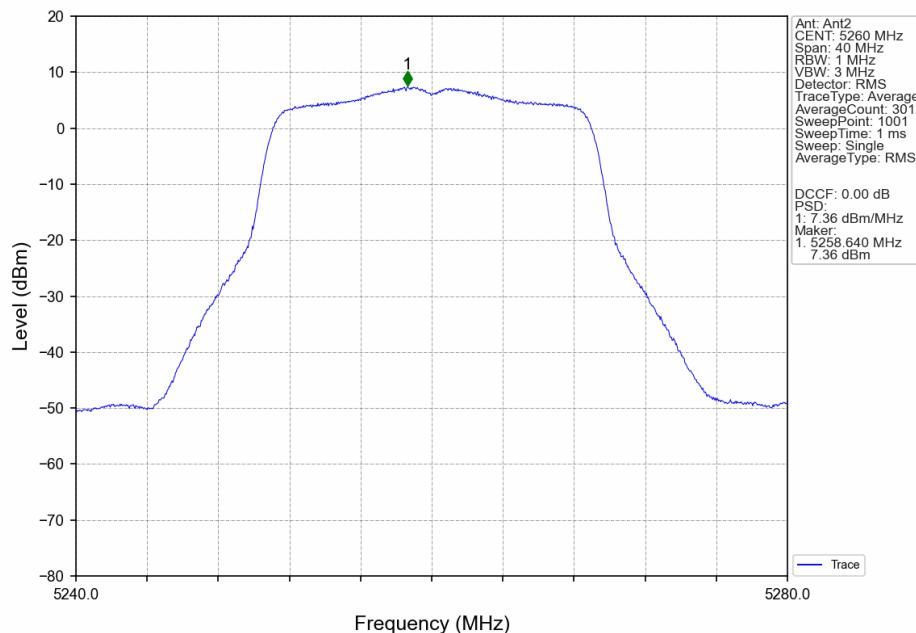
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV**802.11ac(VHT20)_LCH_5260MHz_Ant2_NTNV**

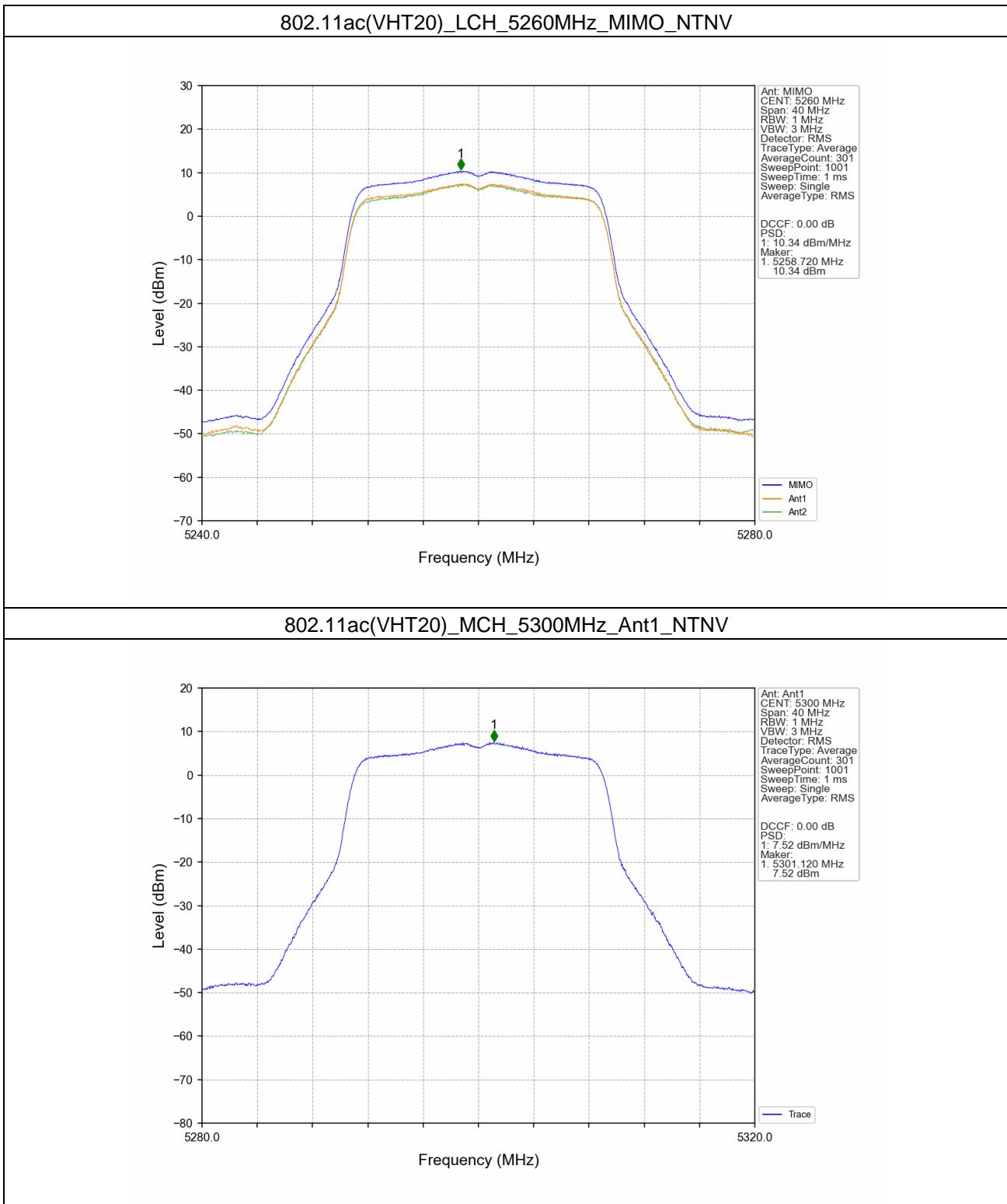
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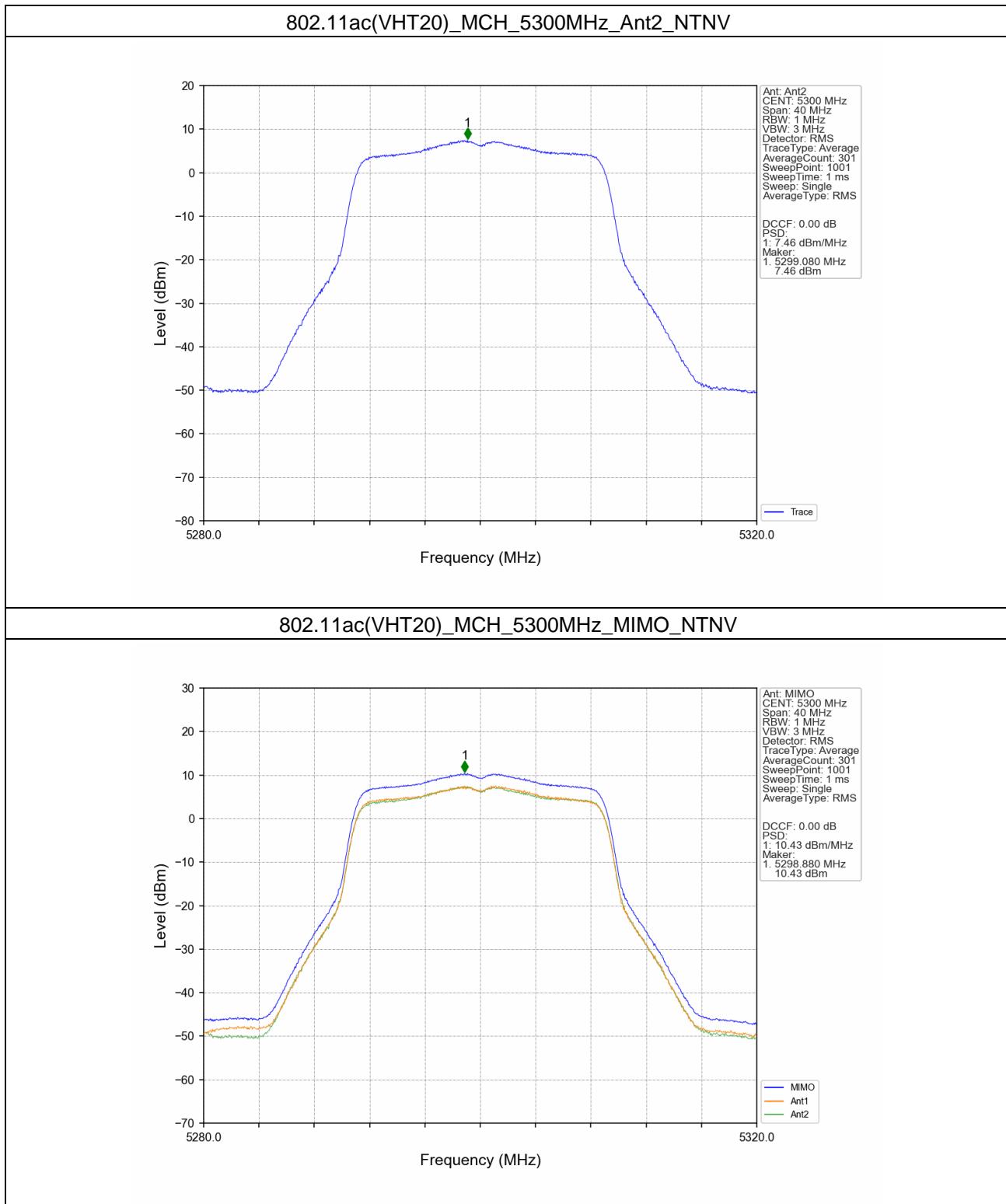
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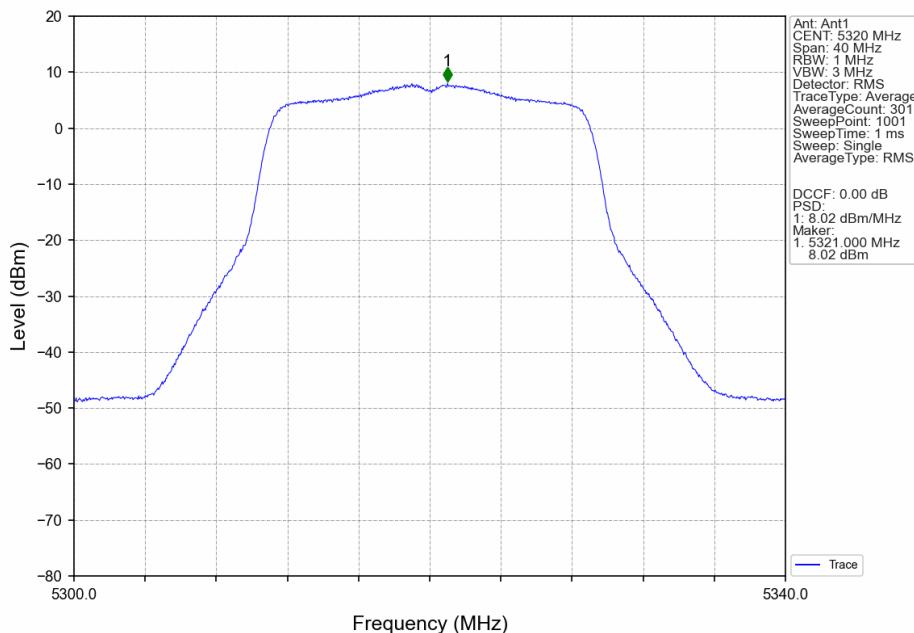
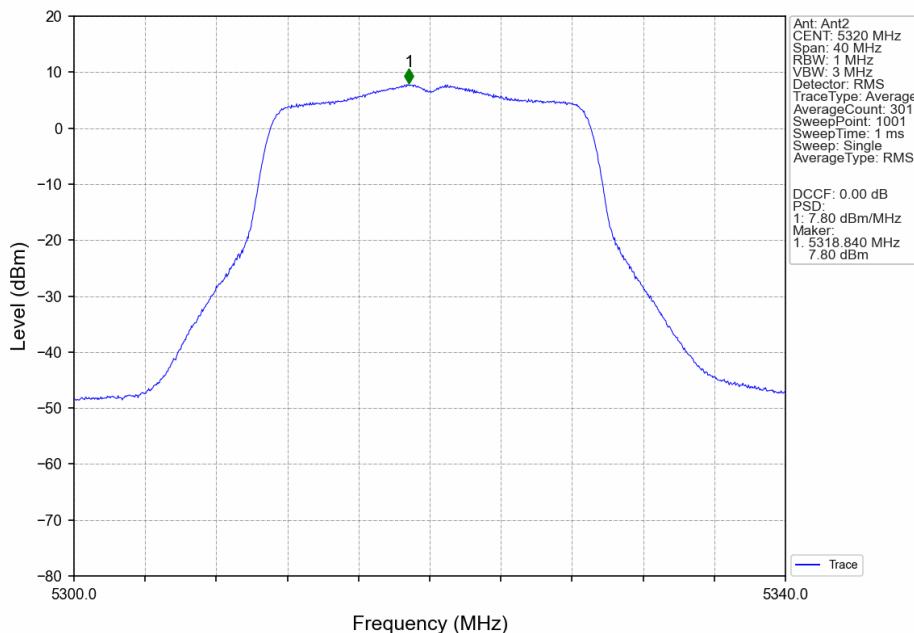
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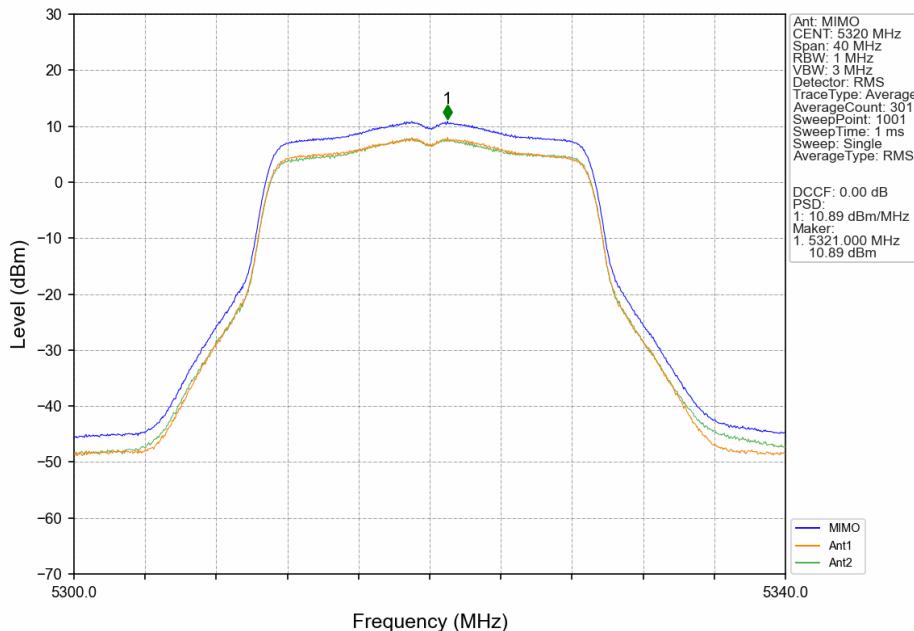
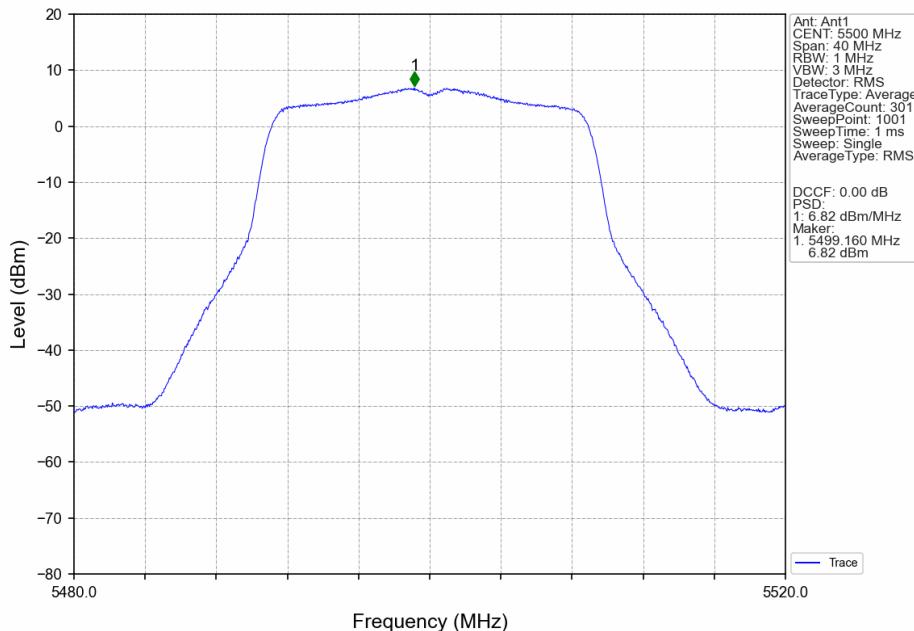
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV**802.11ac(VHT20)_HCH_5320MHz_Ant2_NTNV**

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802.11ac(VHT20)_HCH_5320MHz_MIMO_NTNV**802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV**

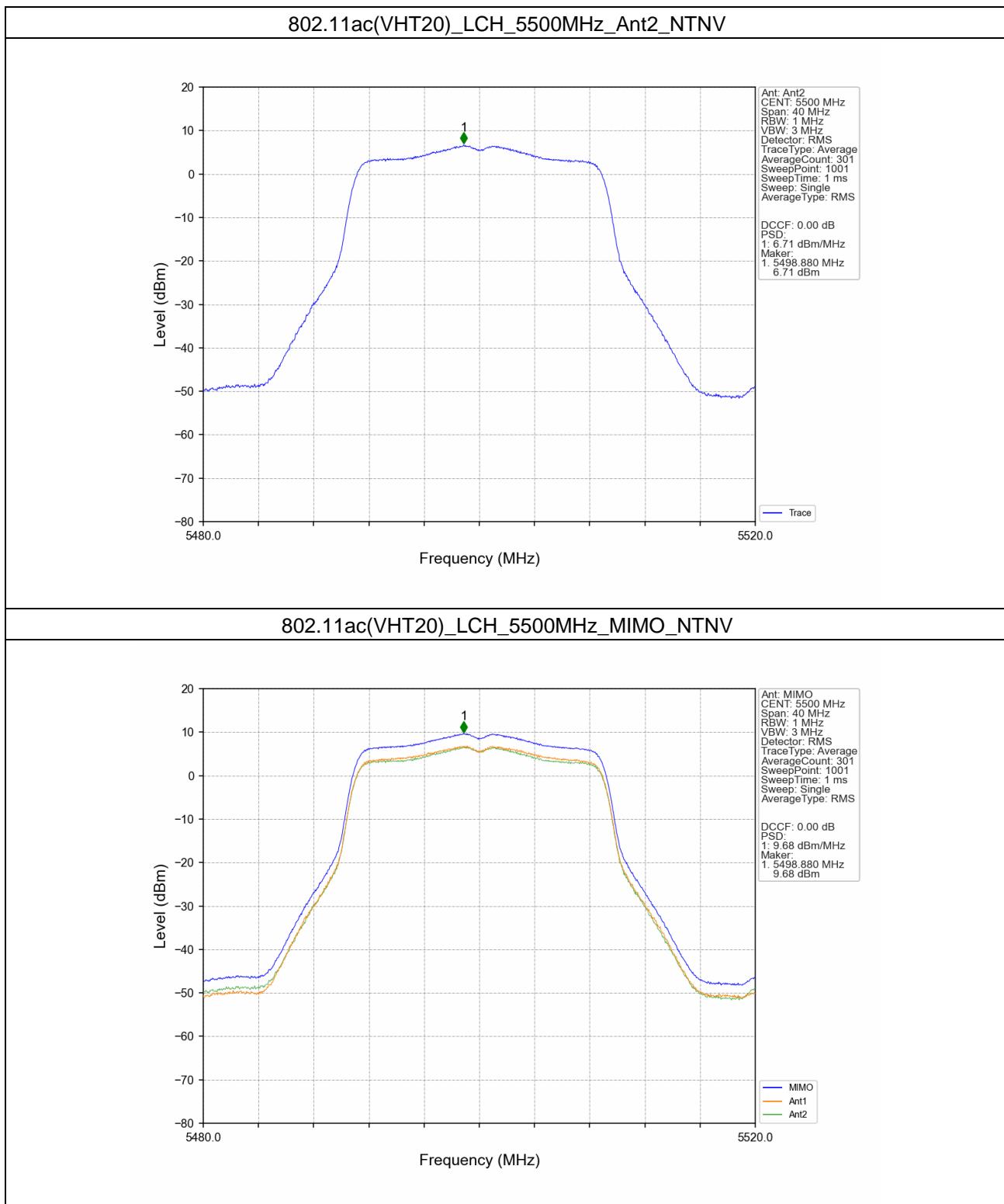
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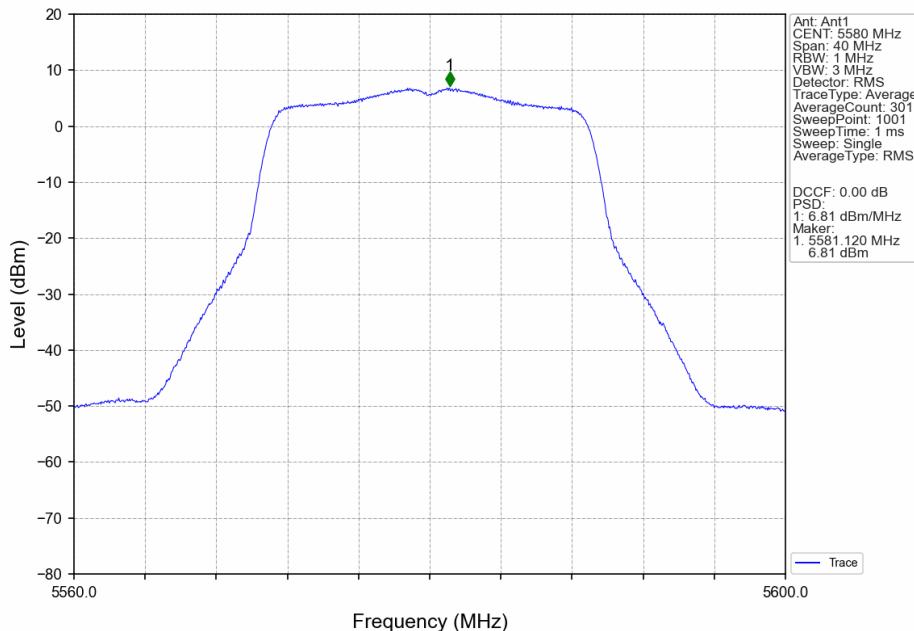
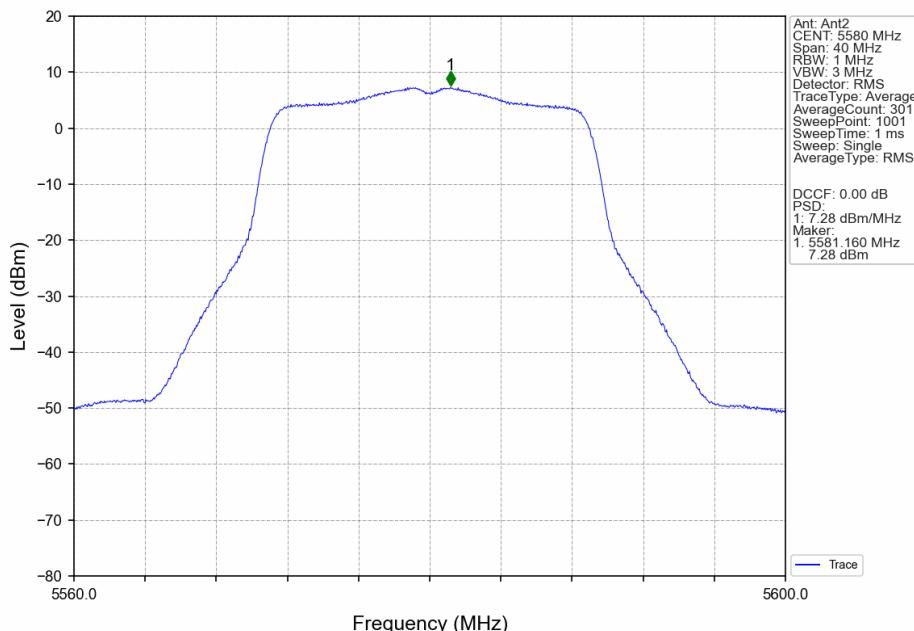
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV**802.11ac(VHT20)_MCH_5580MHz_Ant2_NTNV**

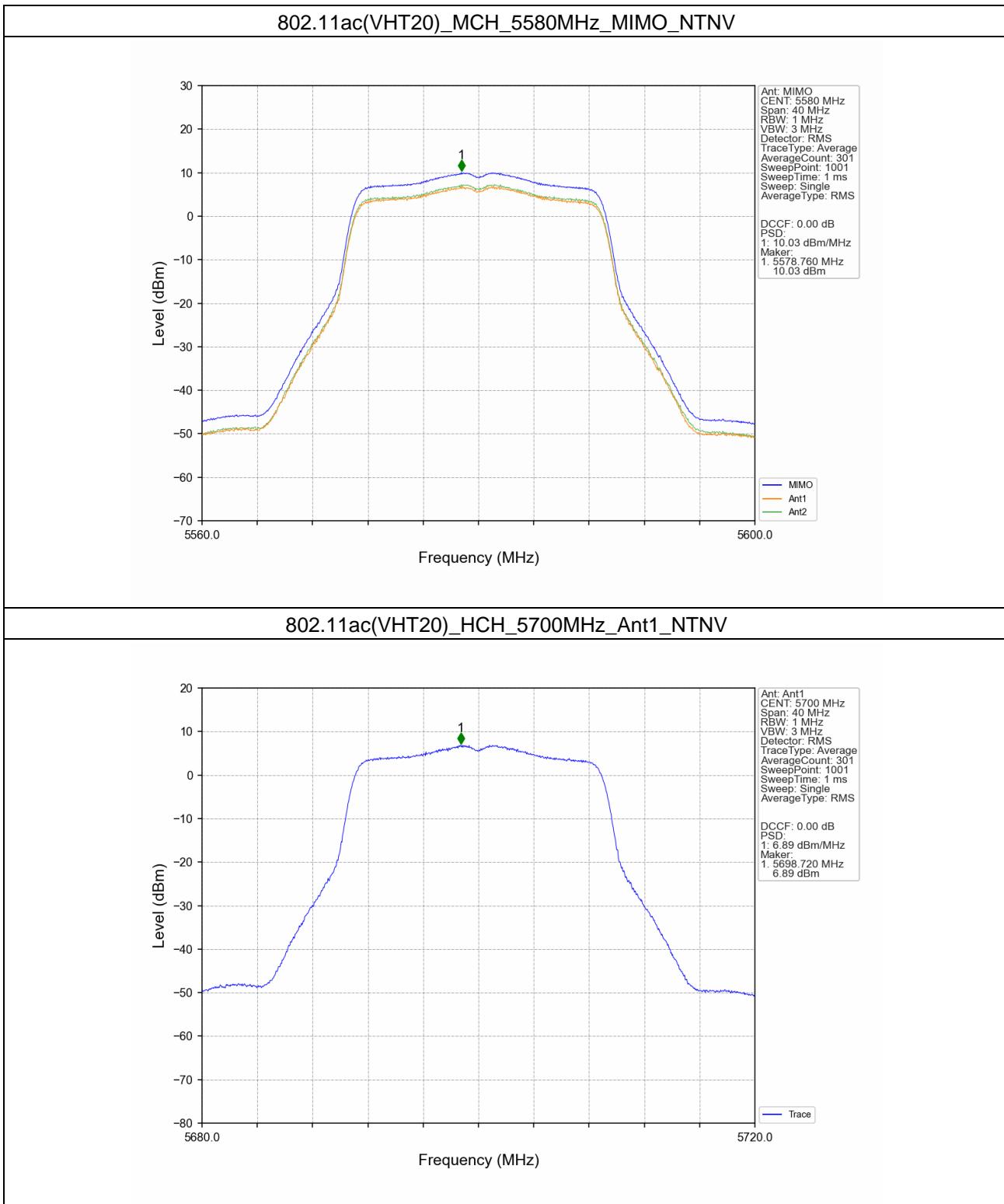
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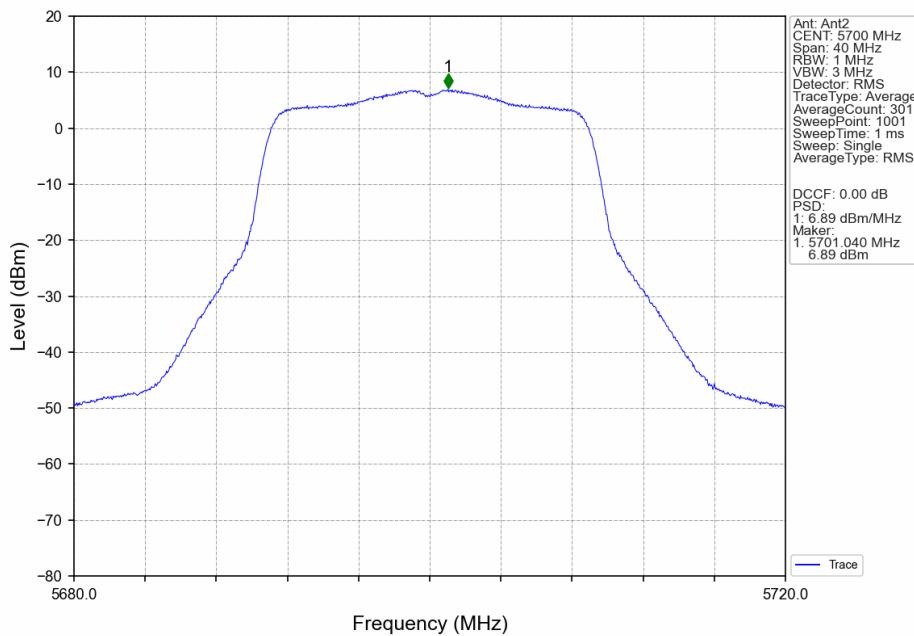
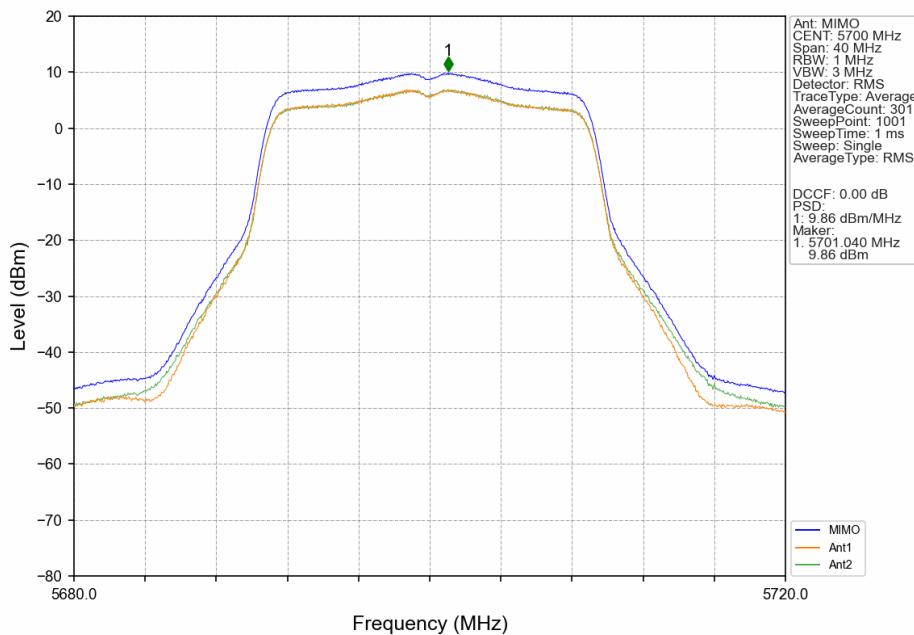
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802.11ac(VHT20)_HCH_5700MHz_Ant2_NTNV**802.11ac(VHT20)_HCH_5700MHz_MIMO_NTNV**

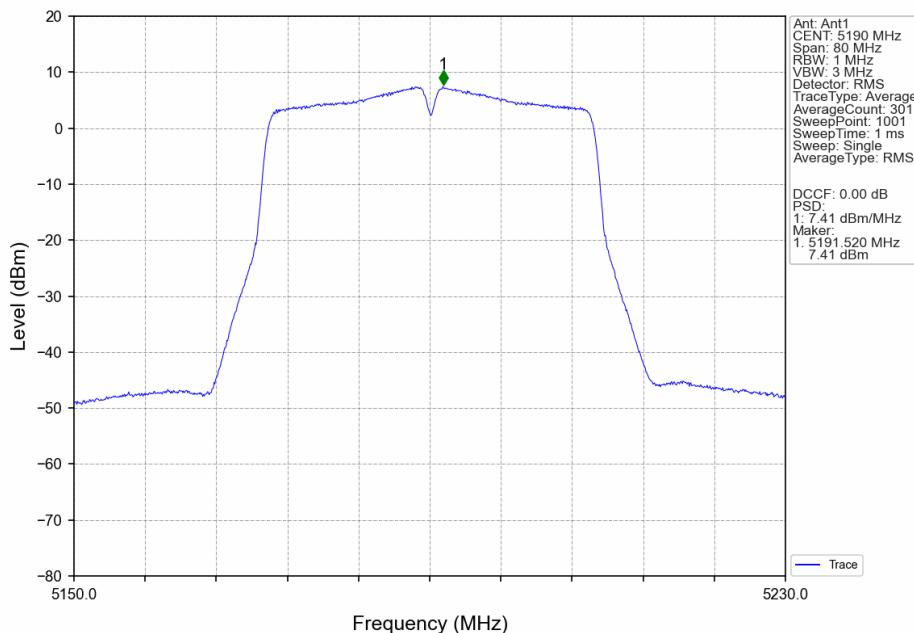
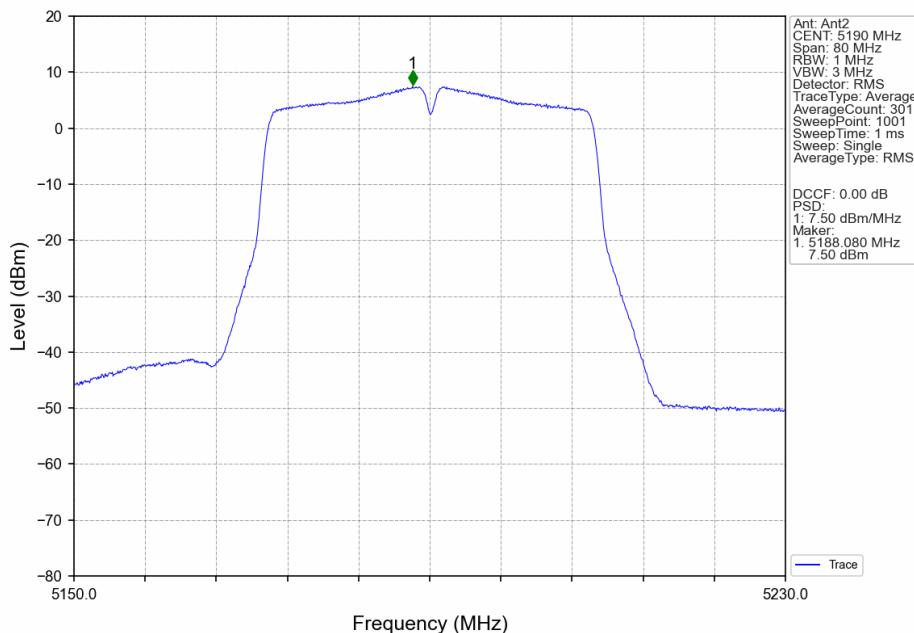
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV**802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV**

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