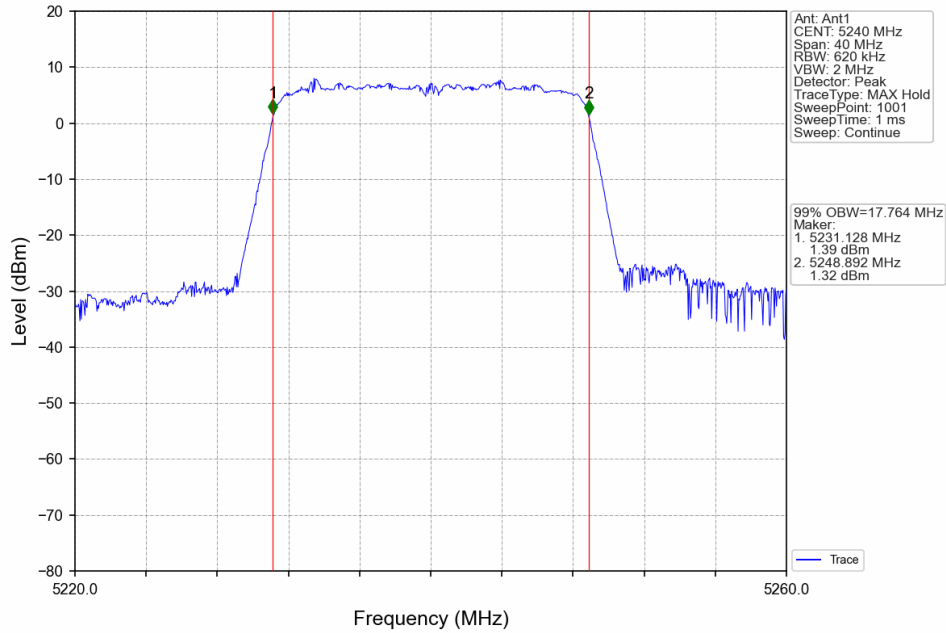
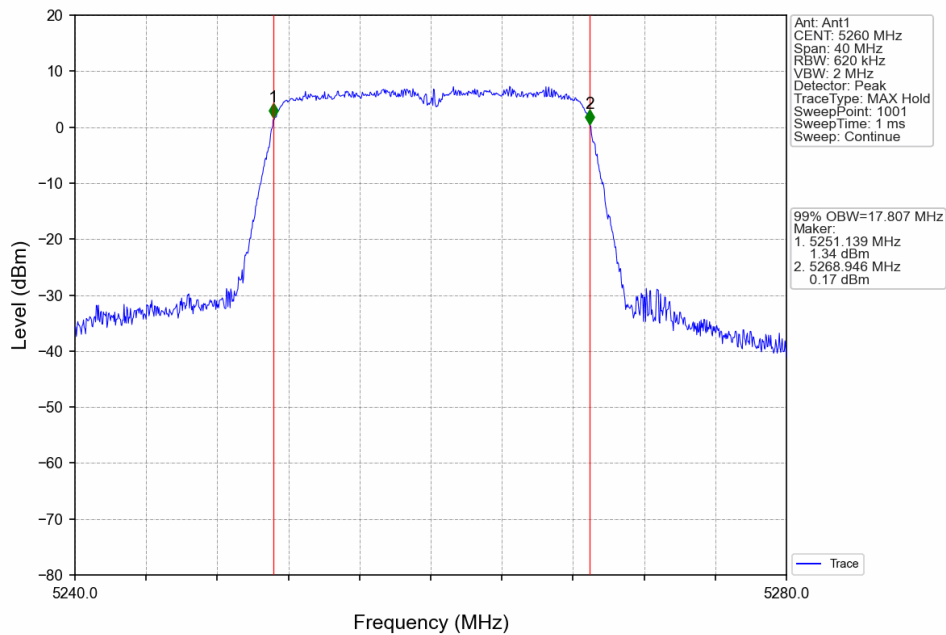


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

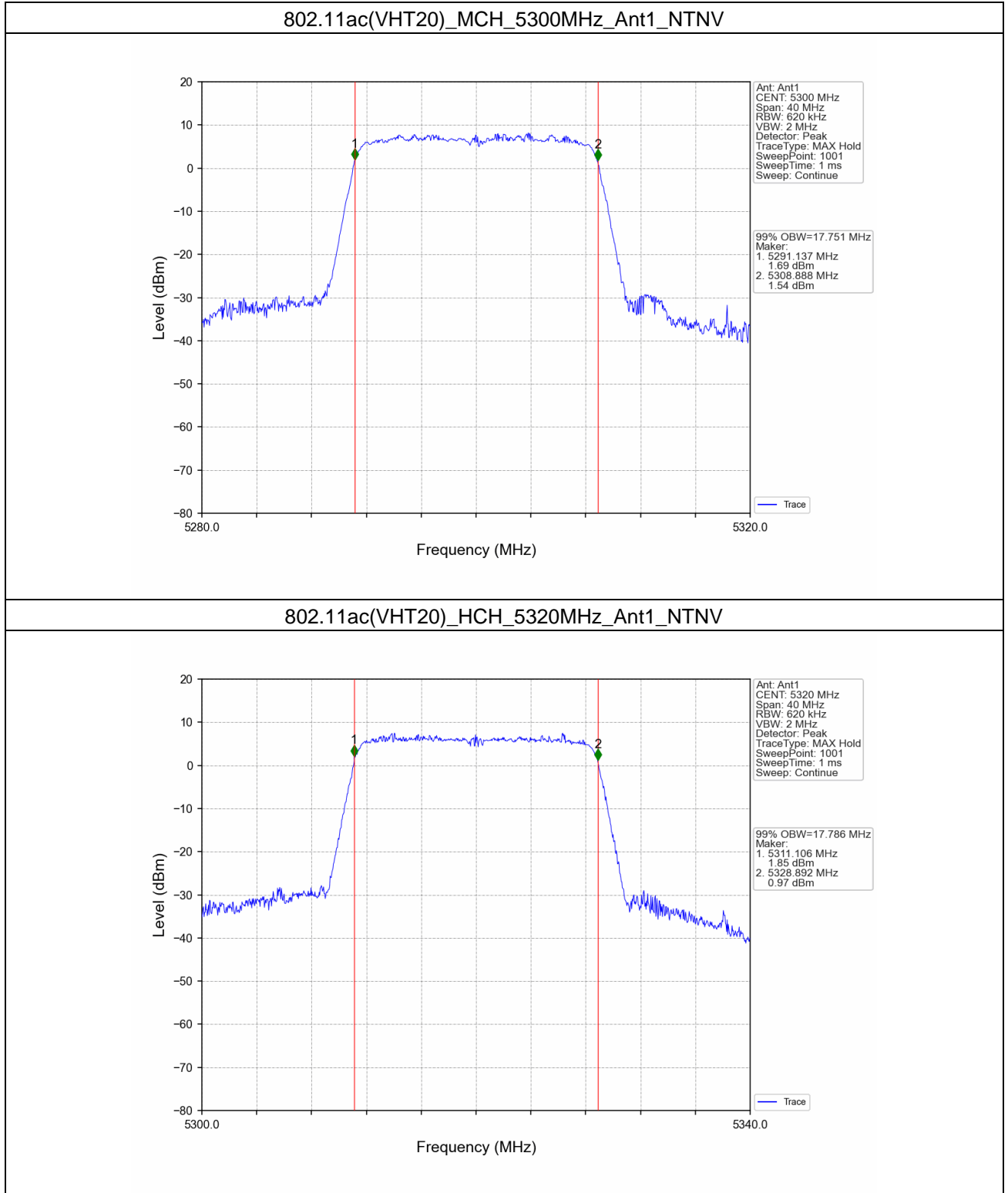


802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



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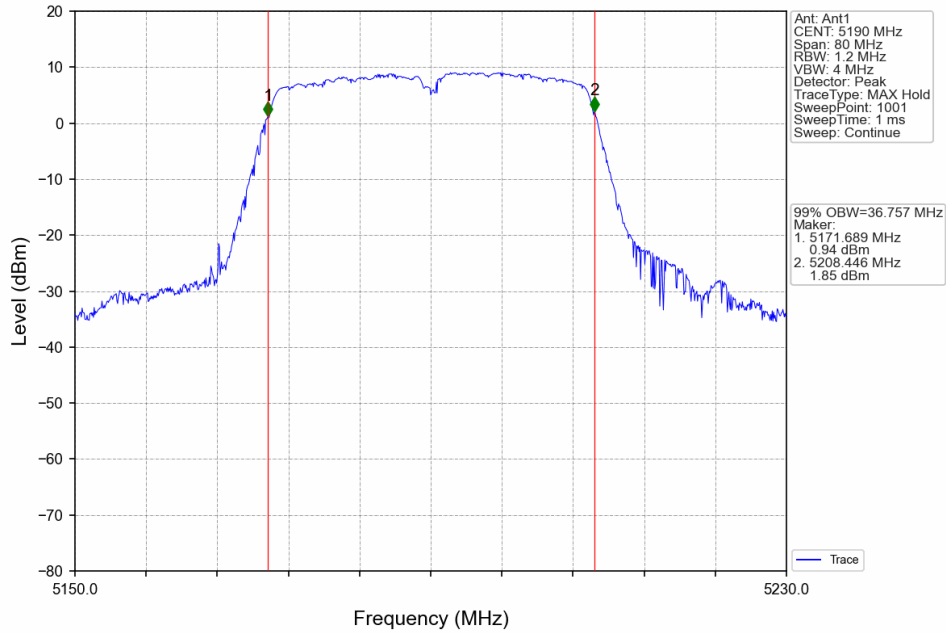
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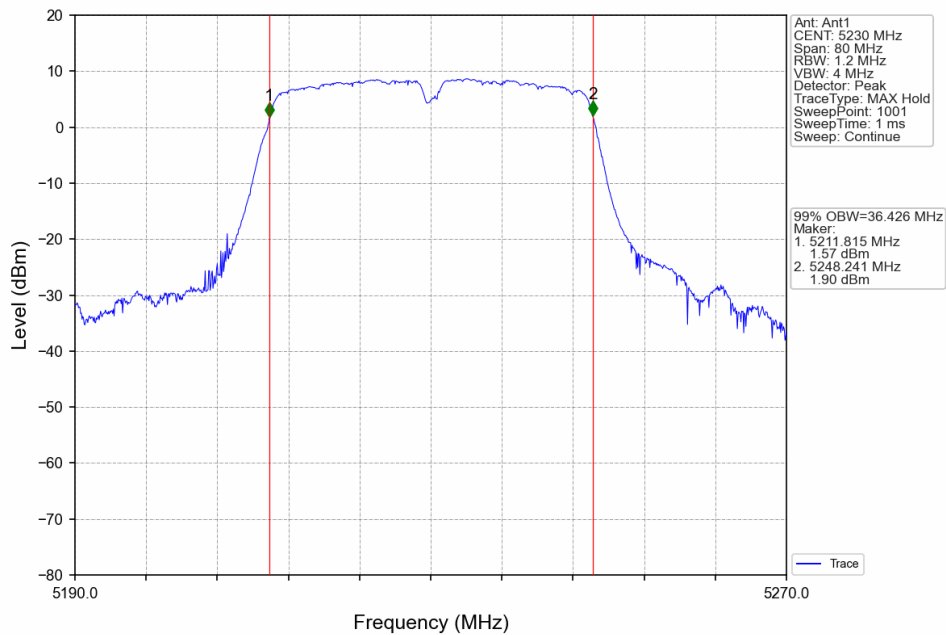
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



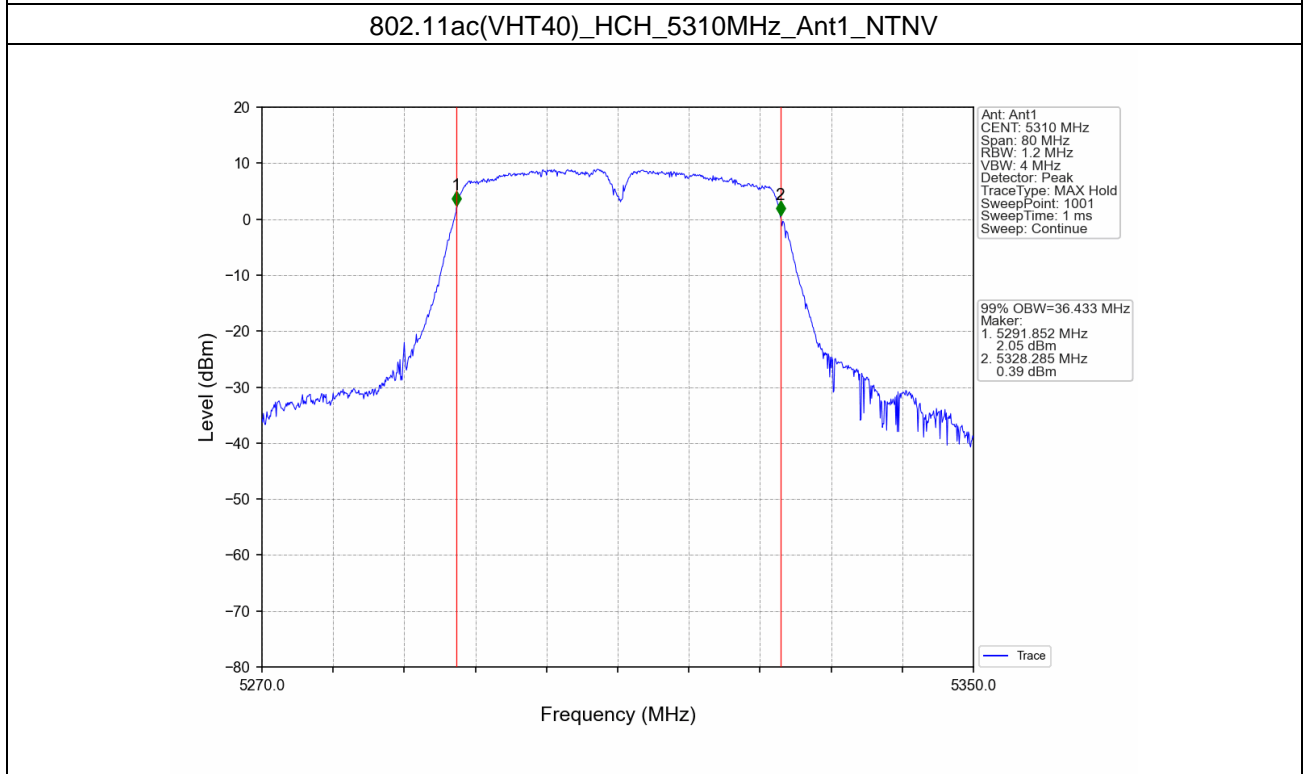
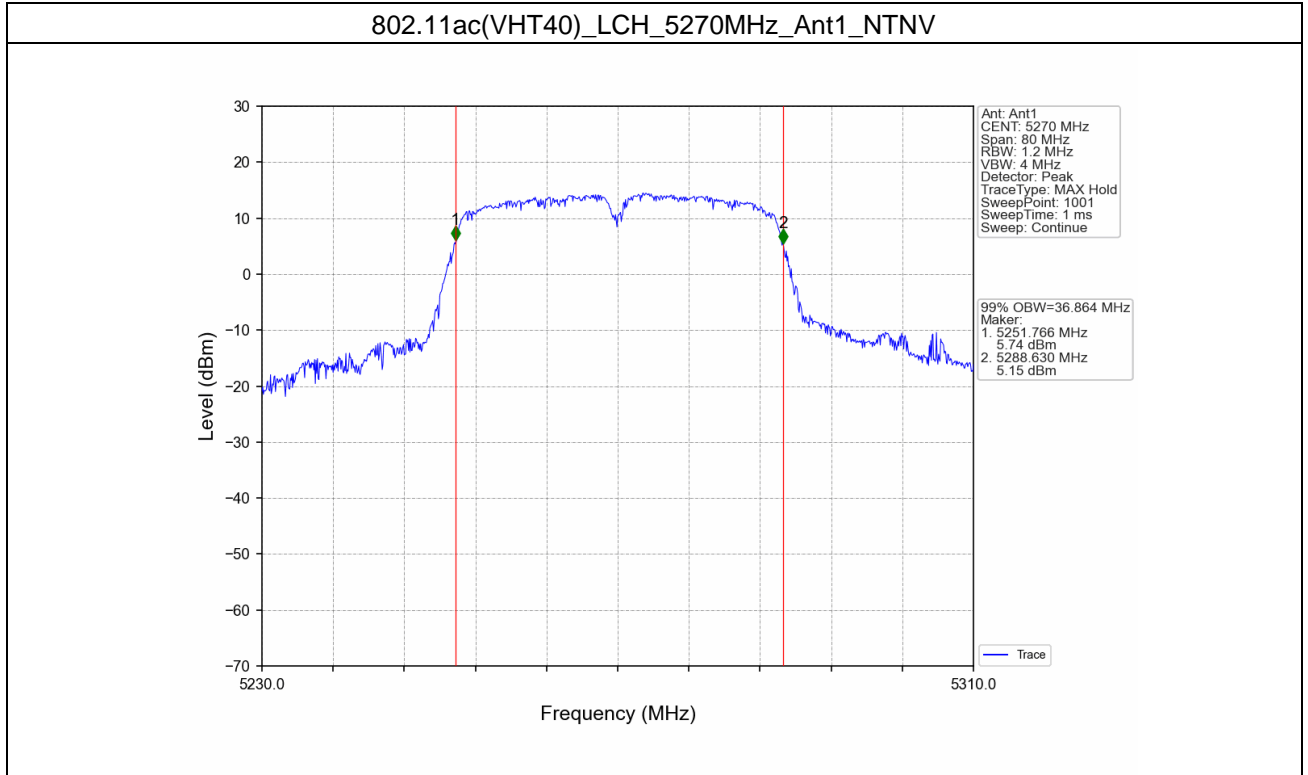
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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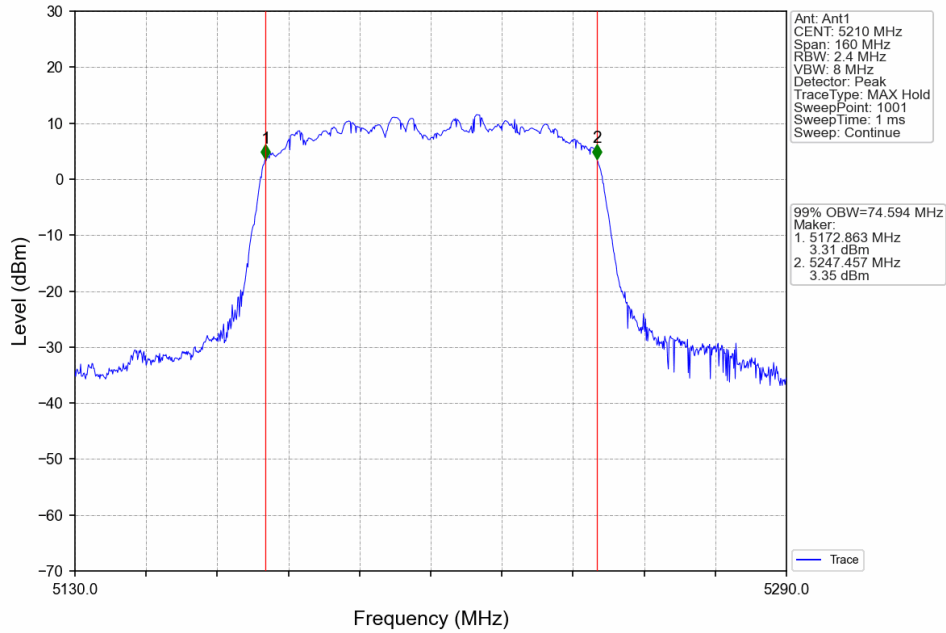
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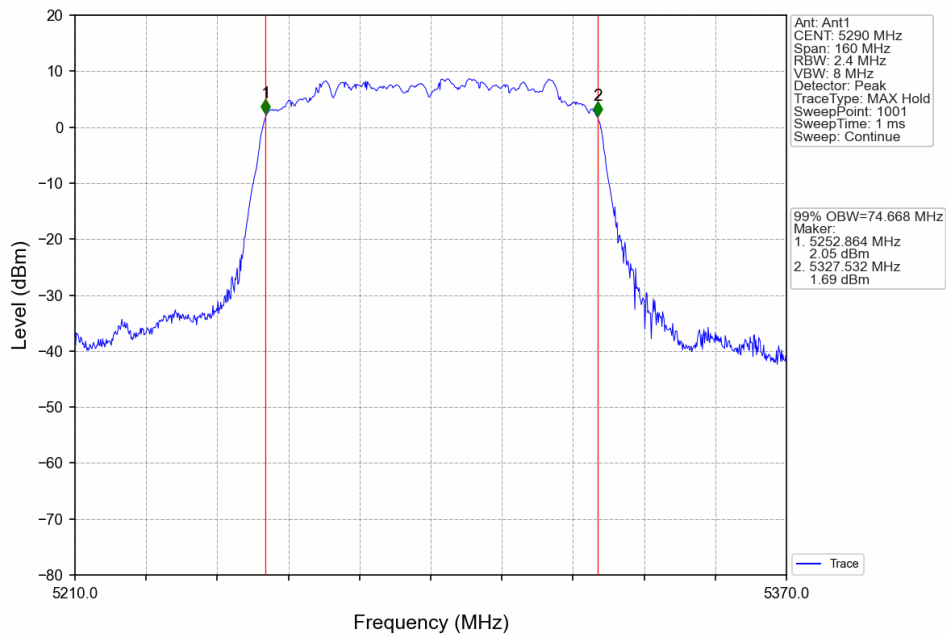


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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



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2.2 26dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	18.501	/	Pass
		5200	1	18.457	/	Pass
		5240	1	18.589	/	Pass
		5260	1	18.438	/	Pass
		5300	1	18.438	/	Pass
		5320	1	18.621	/	Pass
802.11n (HT20)	MIMO	5180	1	19.390	/	Pass
		5200	1	18.459	/	Pass
		5240	1	19.454	/	Pass
		5260	1	19.386	/	Pass
		5300	1	19.567	/	Pass
		5320	1	19.361	/	Pass
802.11n (HT40)	MIMO	5190	1	41.059	/	Pass
		5230	1	41.321	/	Pass
		5270	1	41.291	/	Pass
		5310	1	41.493	/	Pass
802.11ac (VHT20)	MIMO	5180	1	19.544	/	Pass
		5200	1	19.451	/	Pass
		5240	1	19.460	/	Pass
		5260	1	19.493	/	Pass
		5300	1	19.384	/	Pass
		5320	1	19.392	/	Pass
802.11ac (VHT40)	MIMO	5190	1	41.651	/	Pass
		5230	1	41.301	/	Pass
		5270	1	51.049	/	Pass
		5310	1	41.240	/	Pass
802.11ac (VHT80)	MIMO	5210	1	80.716	/	Pass
		5290	1	81.016	/	Pass

Note: All antennas type has been tested and we found the antenna 1 has the worst result. Only record the worst test result.

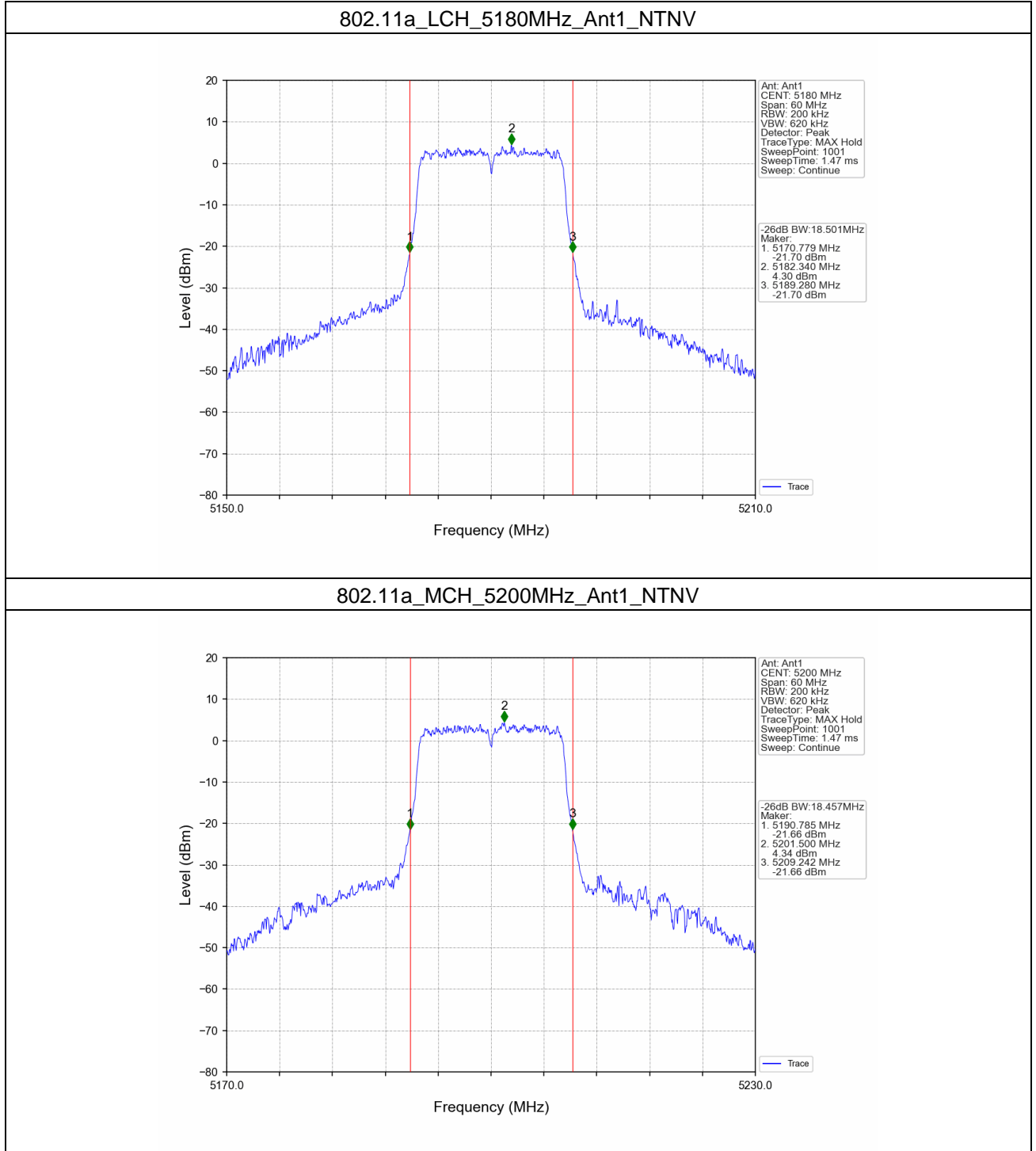


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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

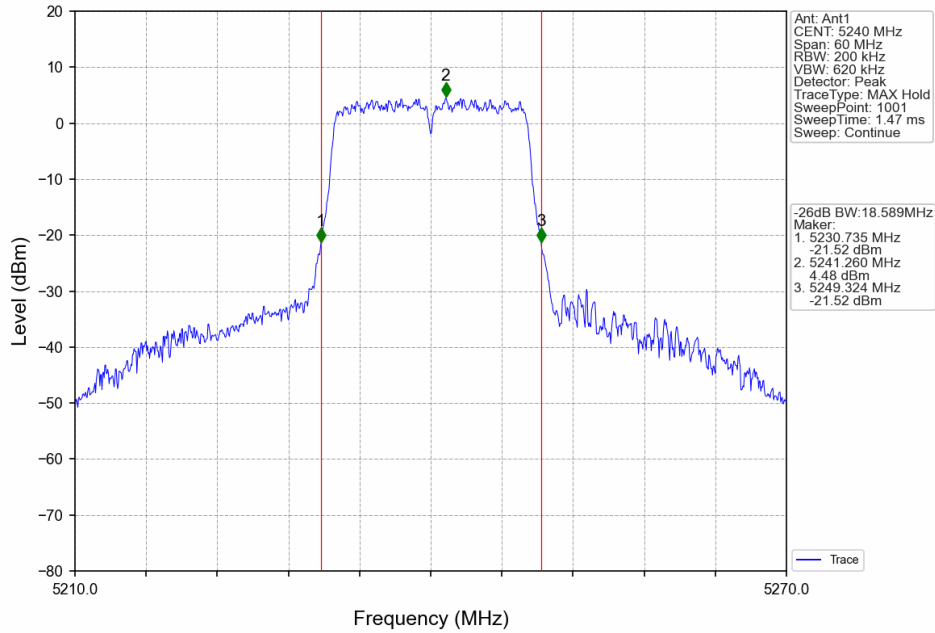
2.2.2 Test Graph



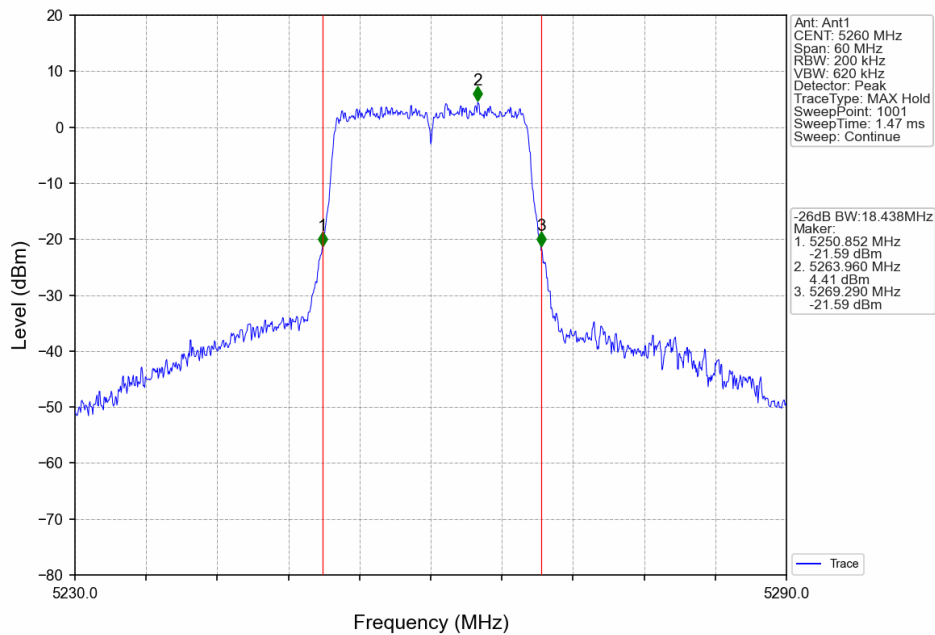
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802.11a_HCH_5240MHz_Ant1_NTNV



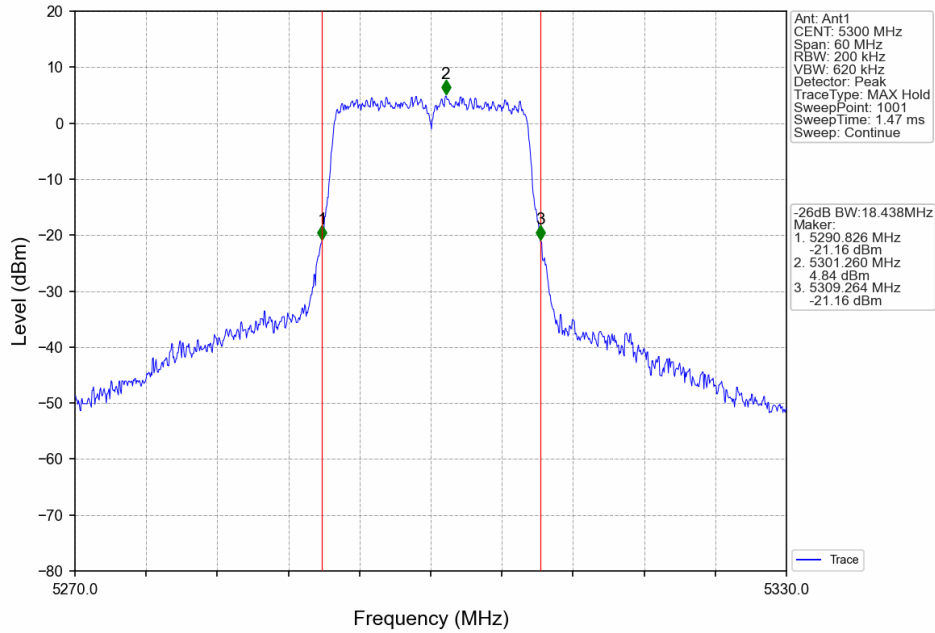
802.11a_LCH_5260MHz_Ant1_NTNV



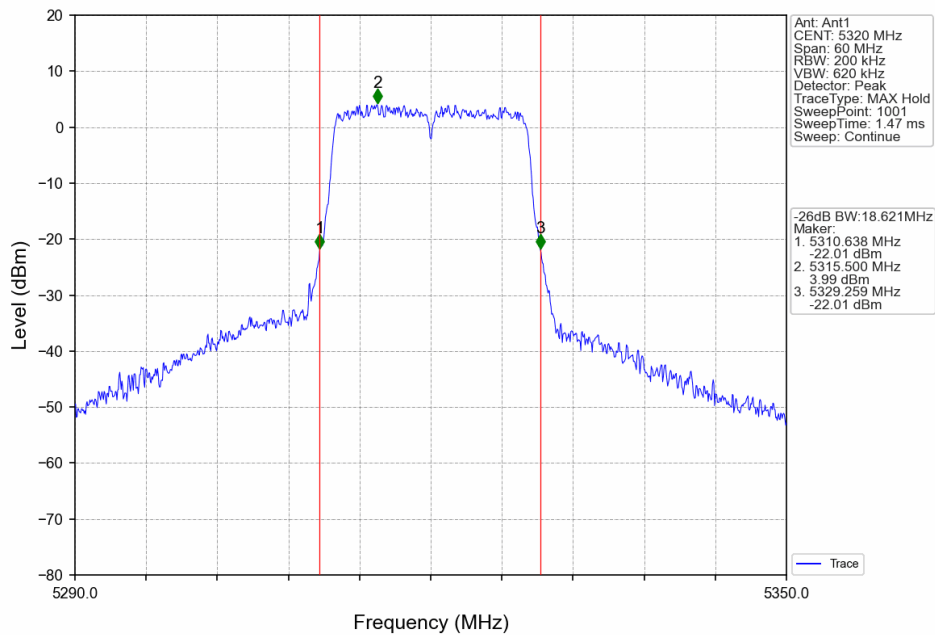
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802.11a_MCH_5300MHz_Ant1_NTNV



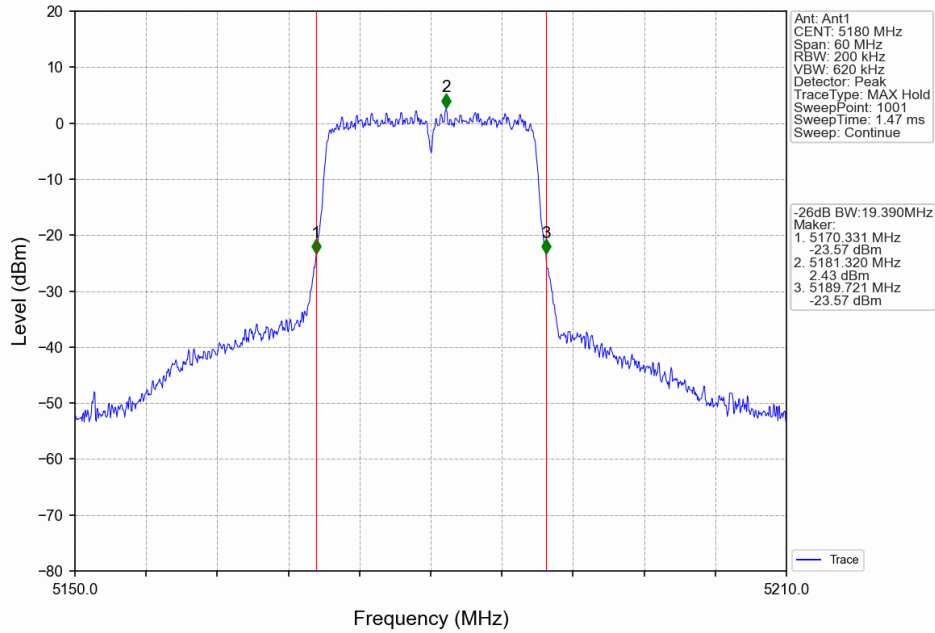
802.11a_HCH_5320MHz_Ant1_NTNV



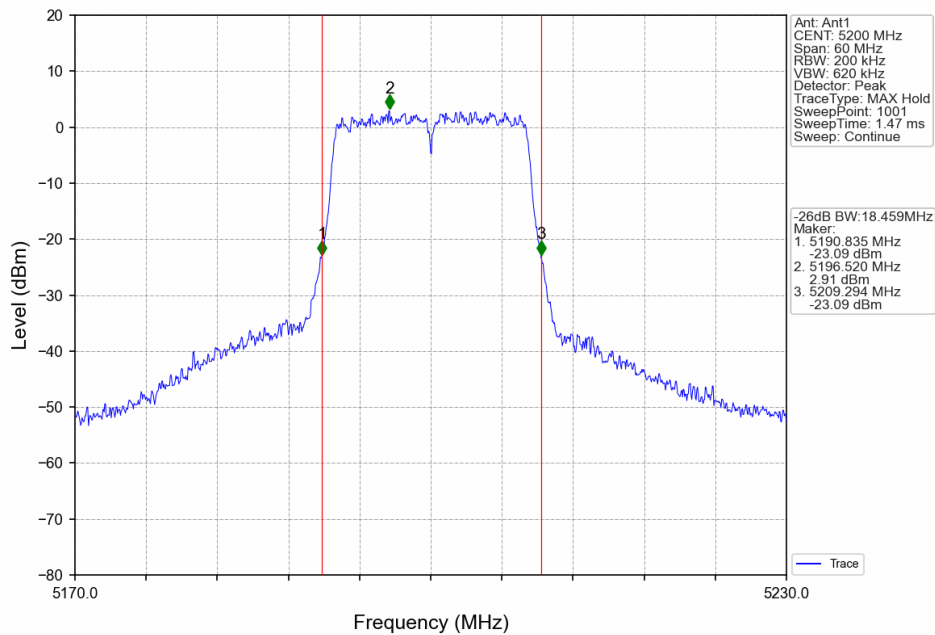
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



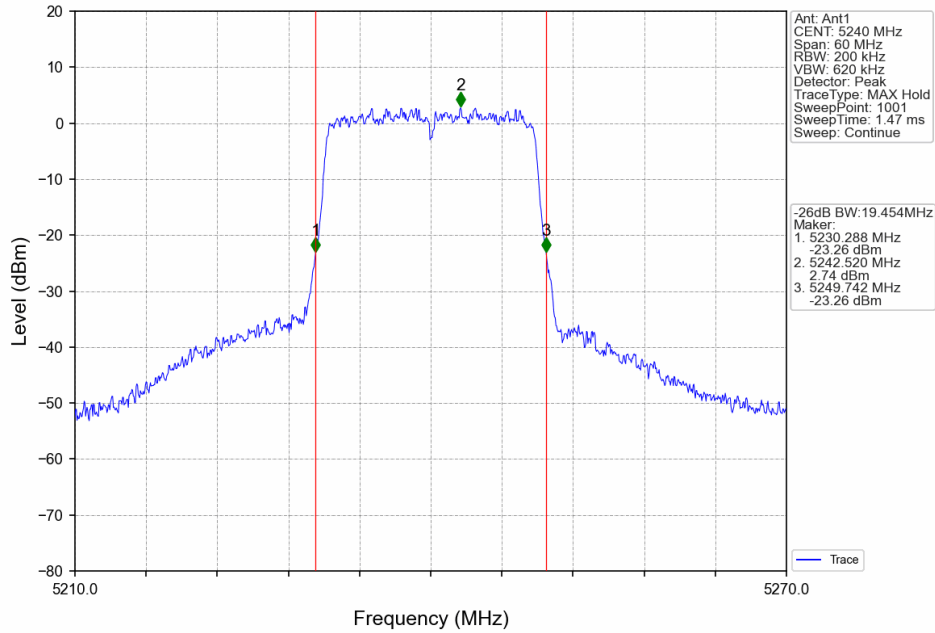
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



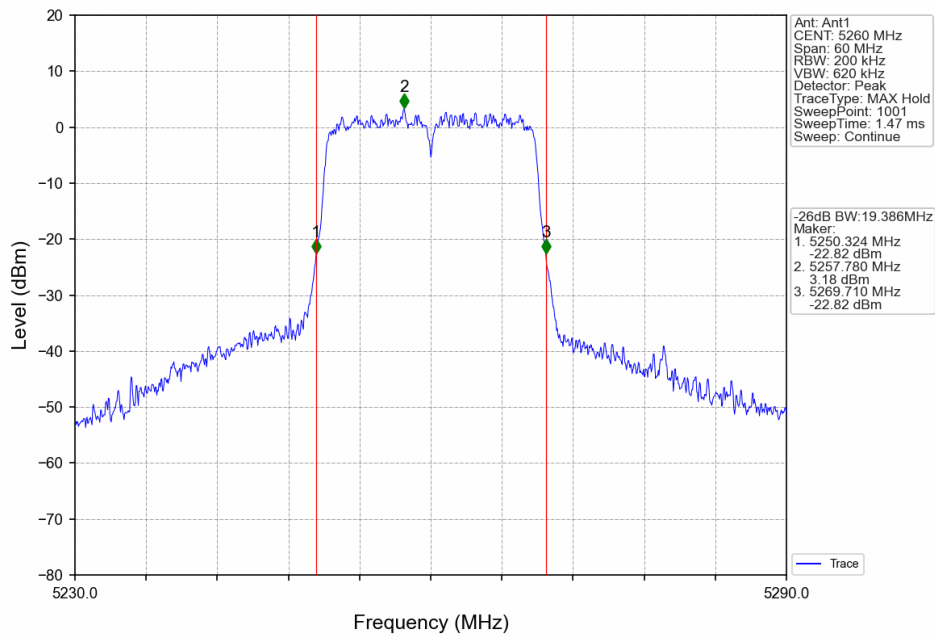
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

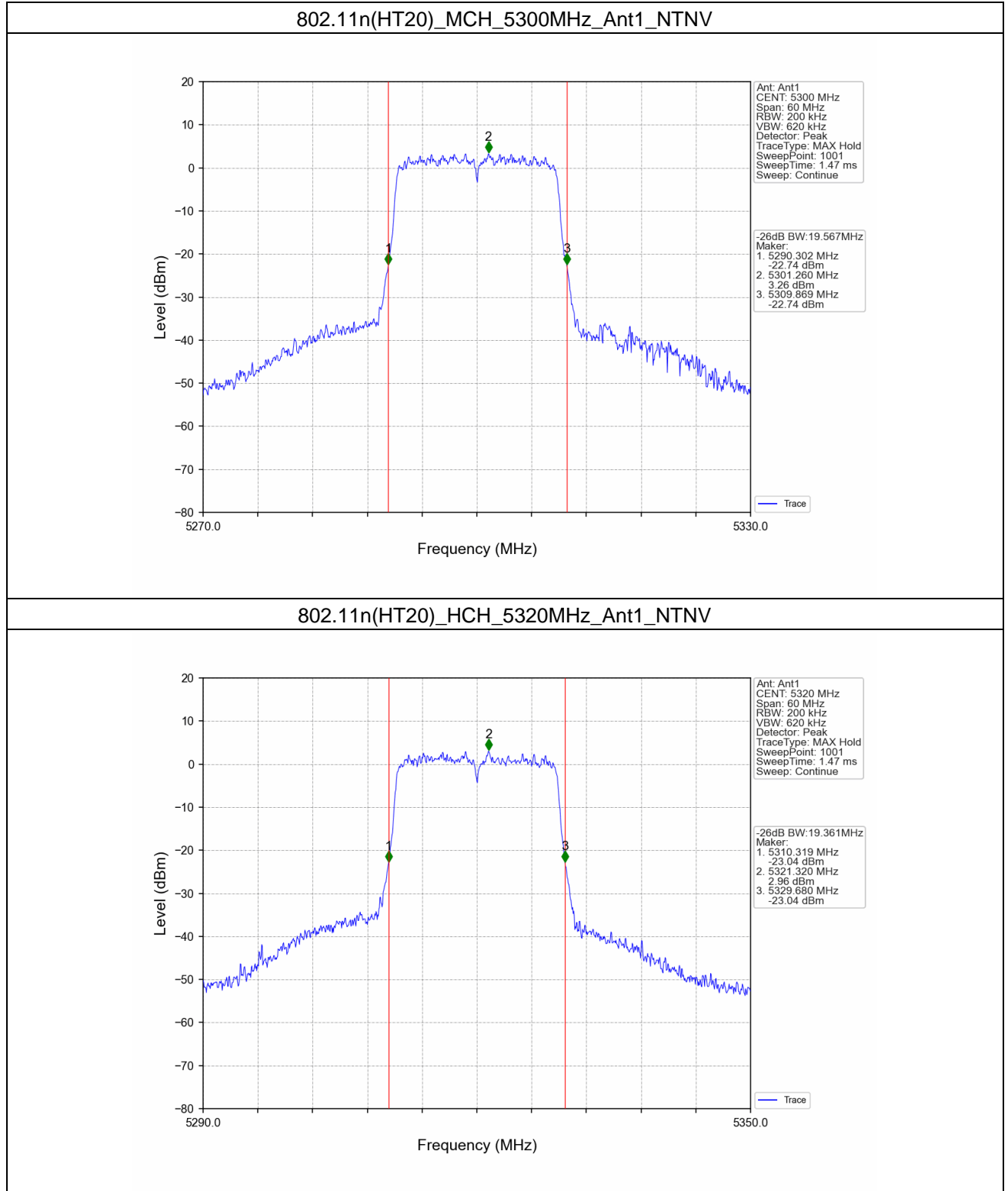


802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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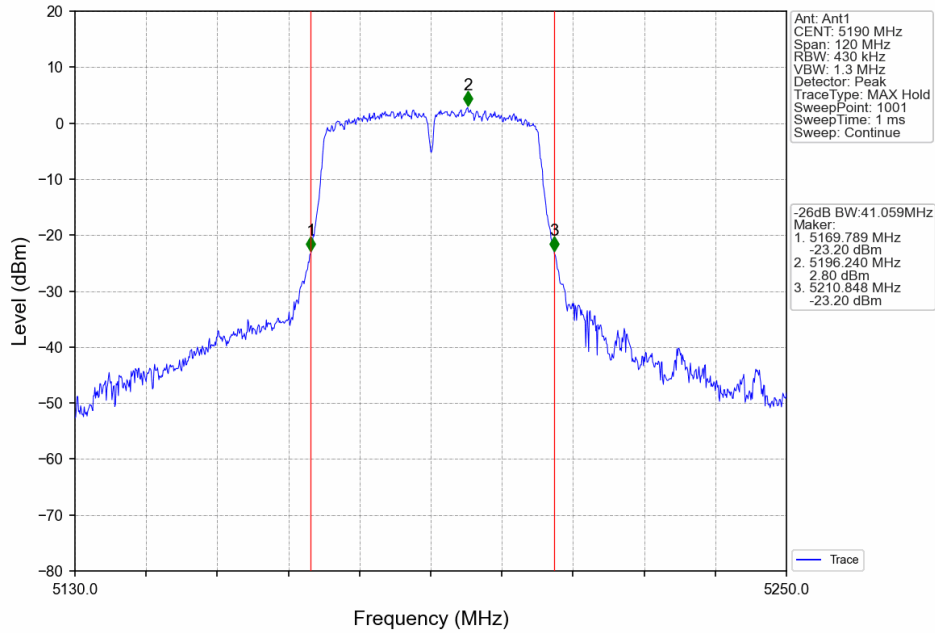
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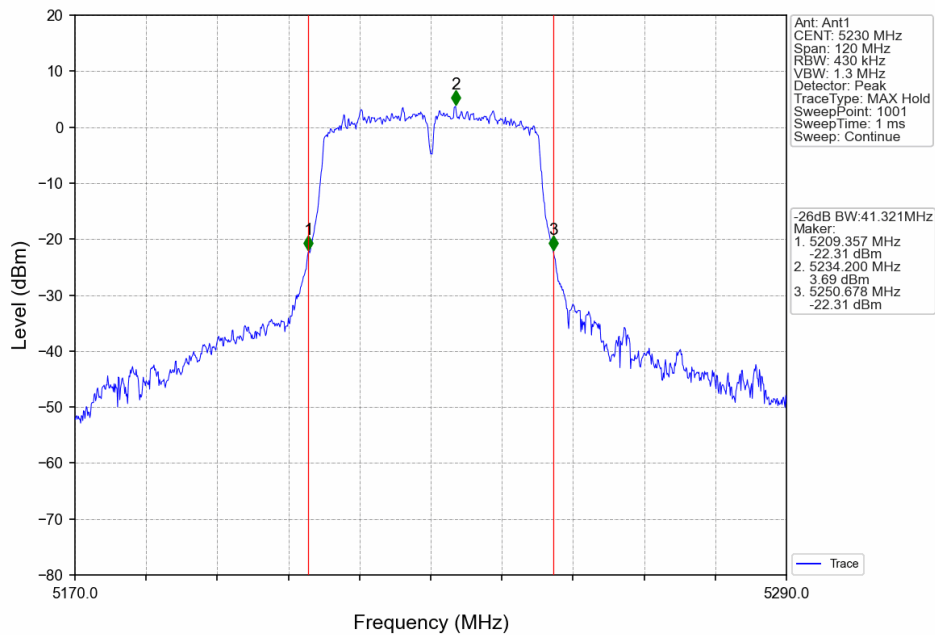
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

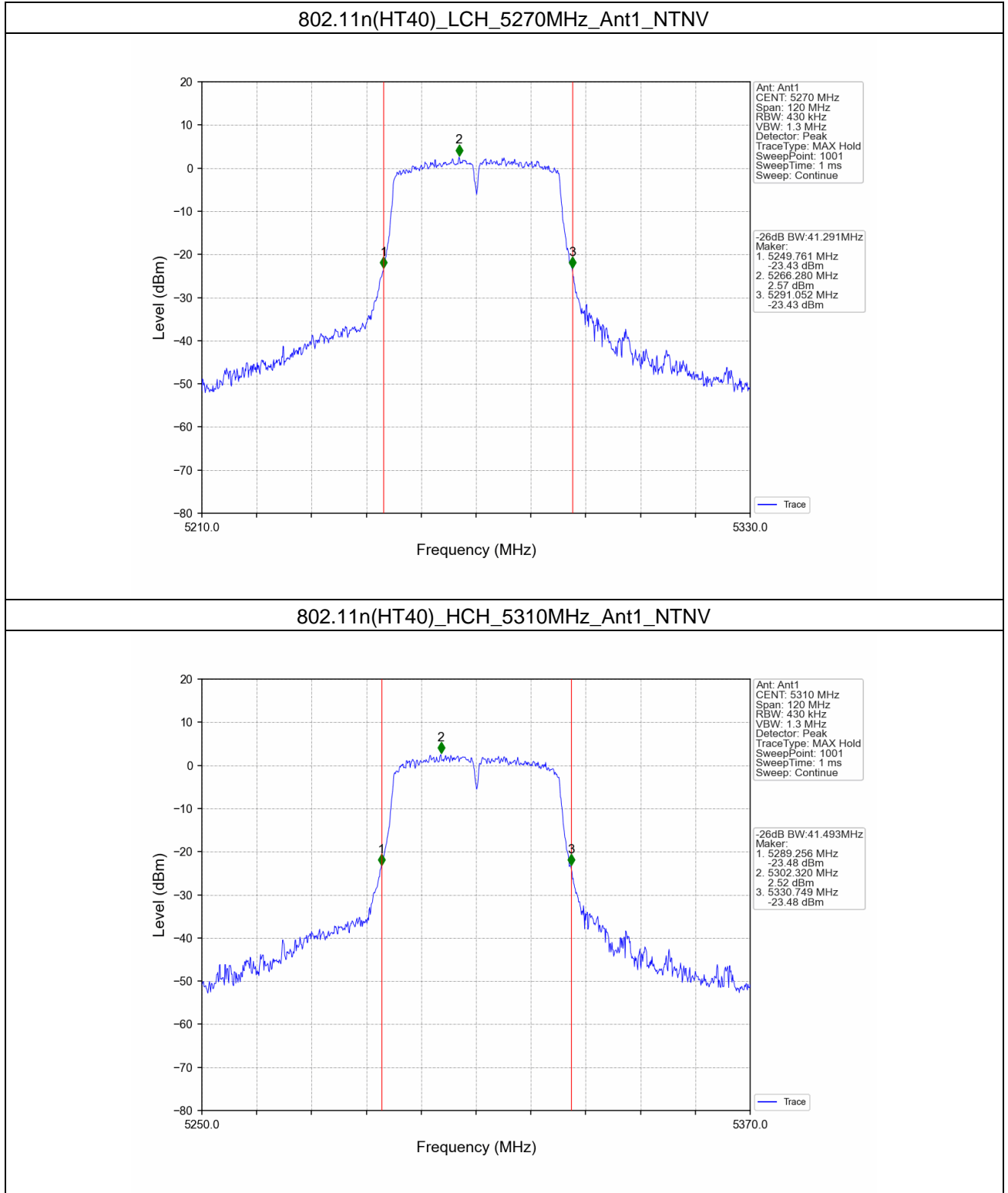


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



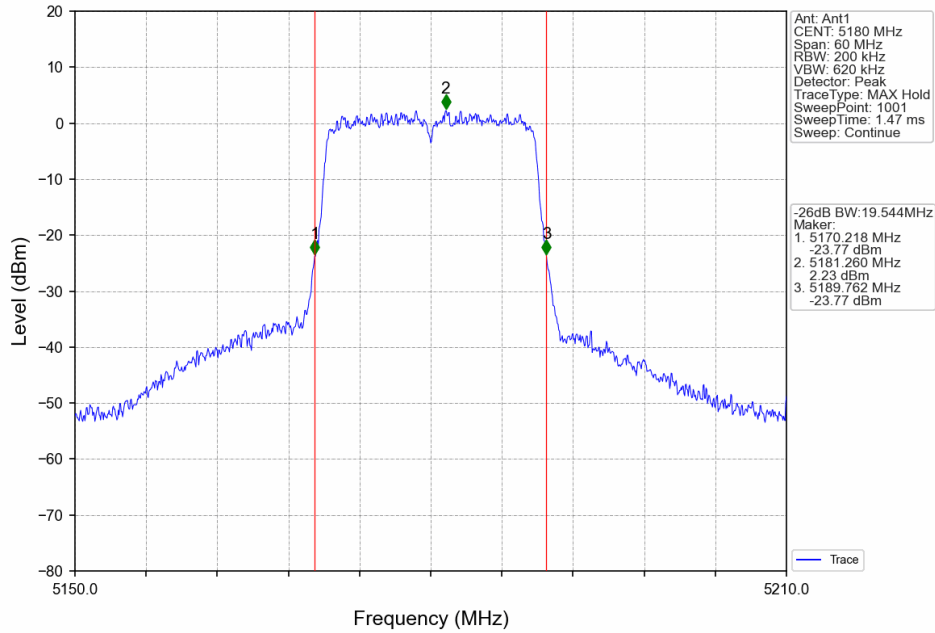
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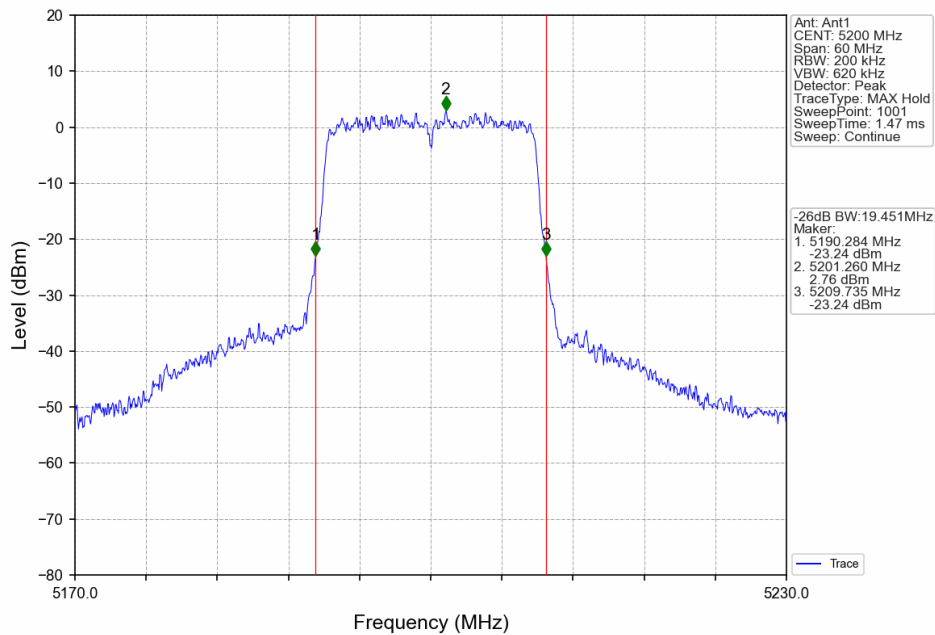


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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

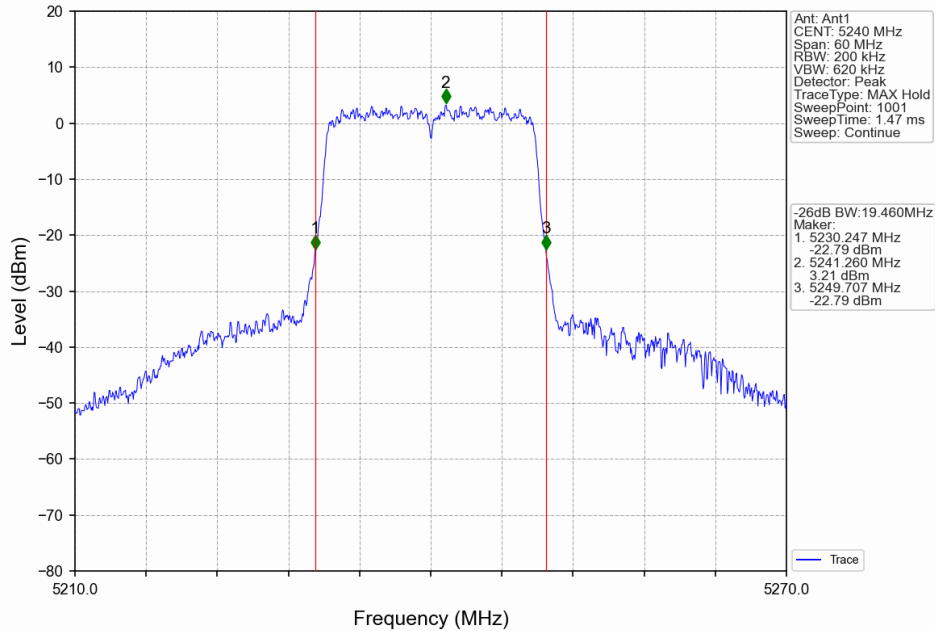


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

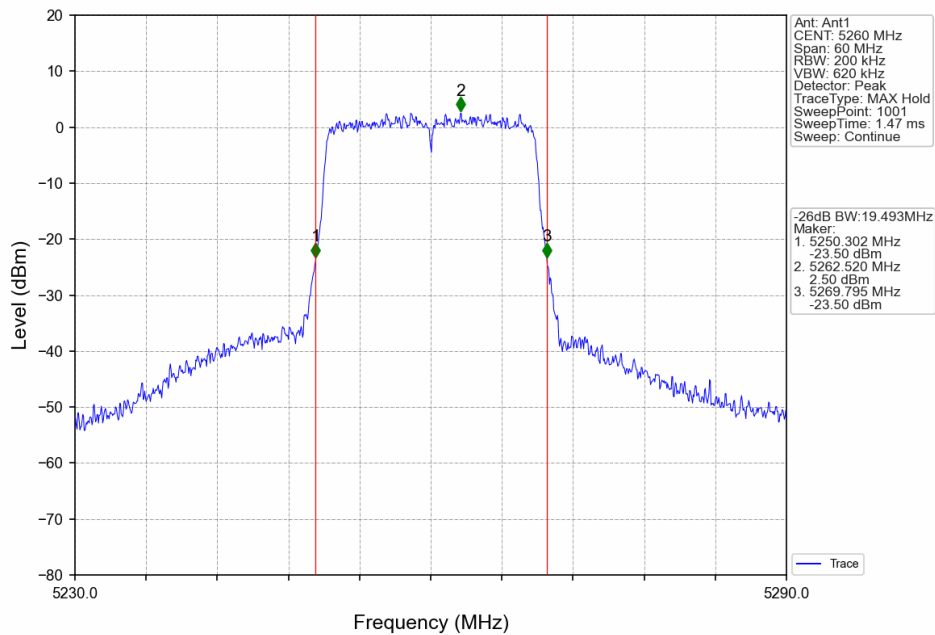


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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



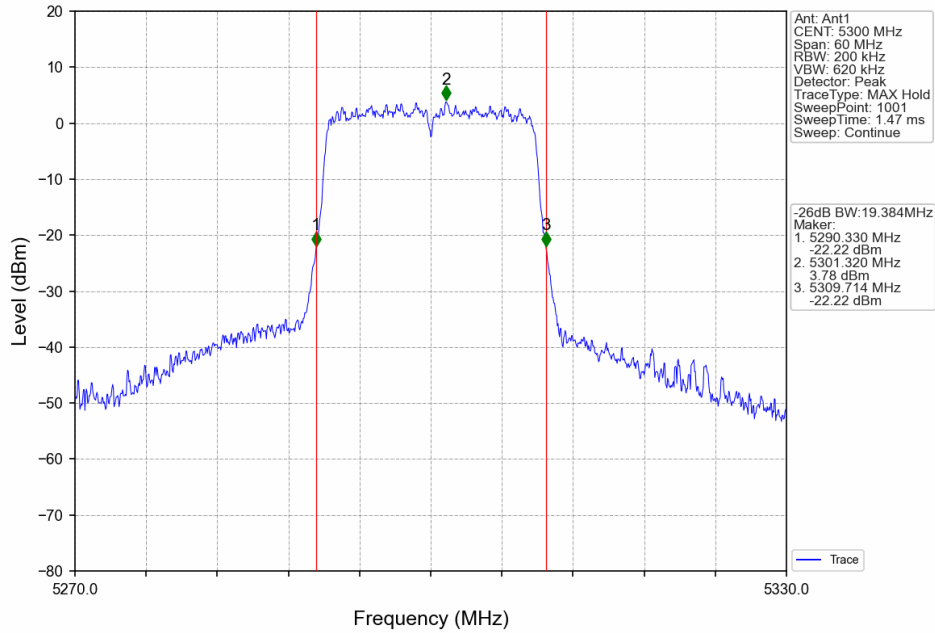
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



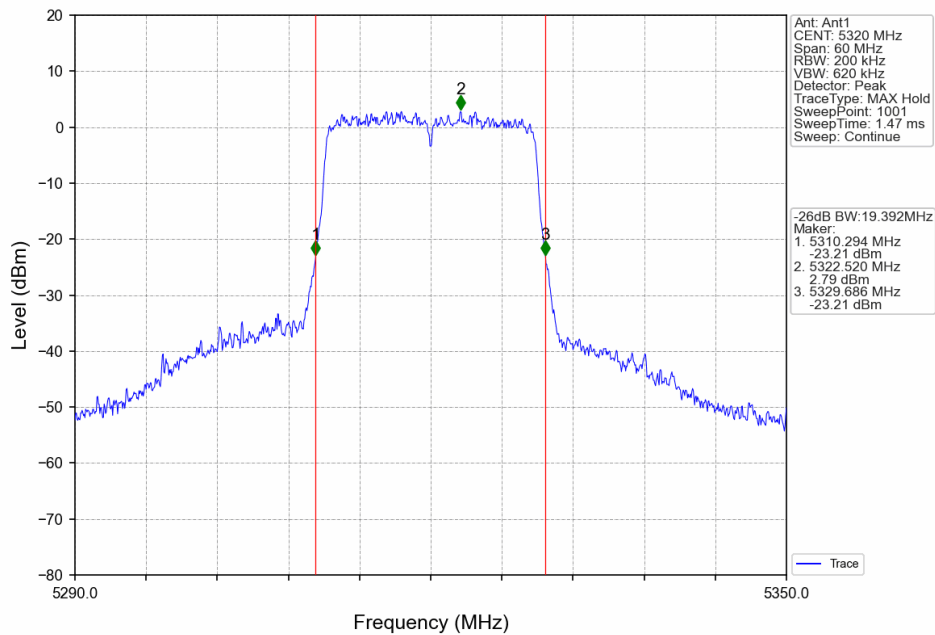
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV

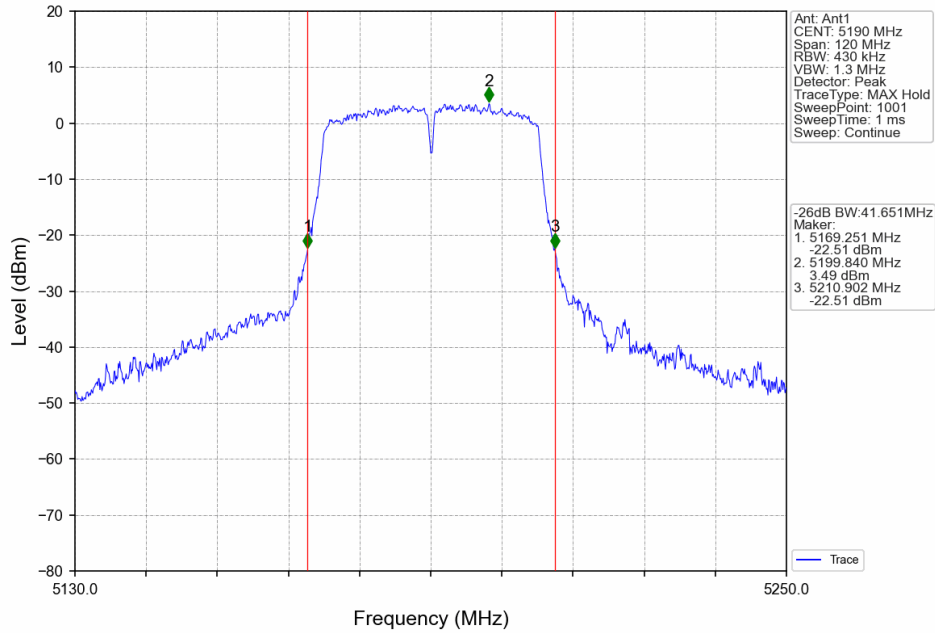


802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV

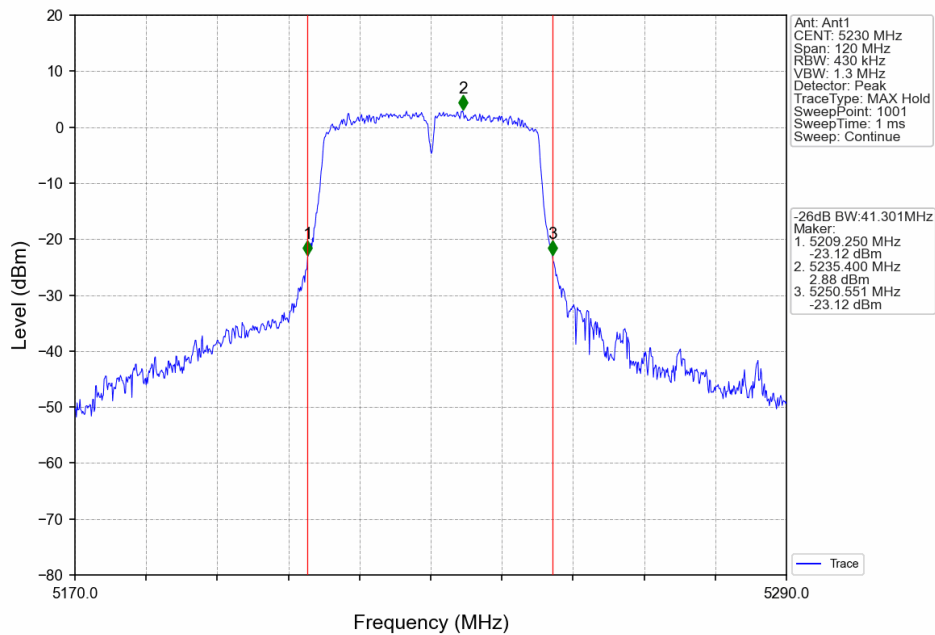


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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

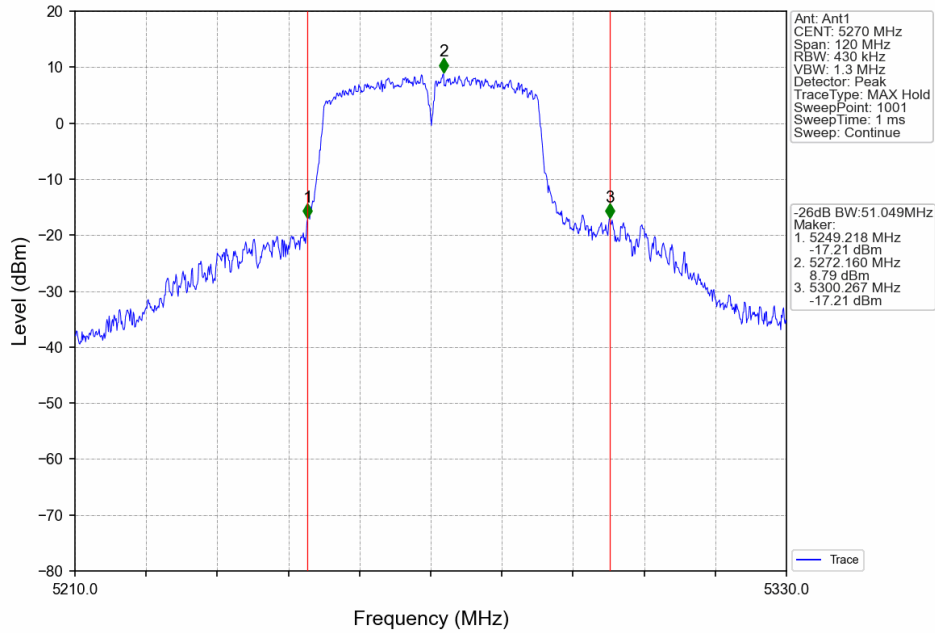


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

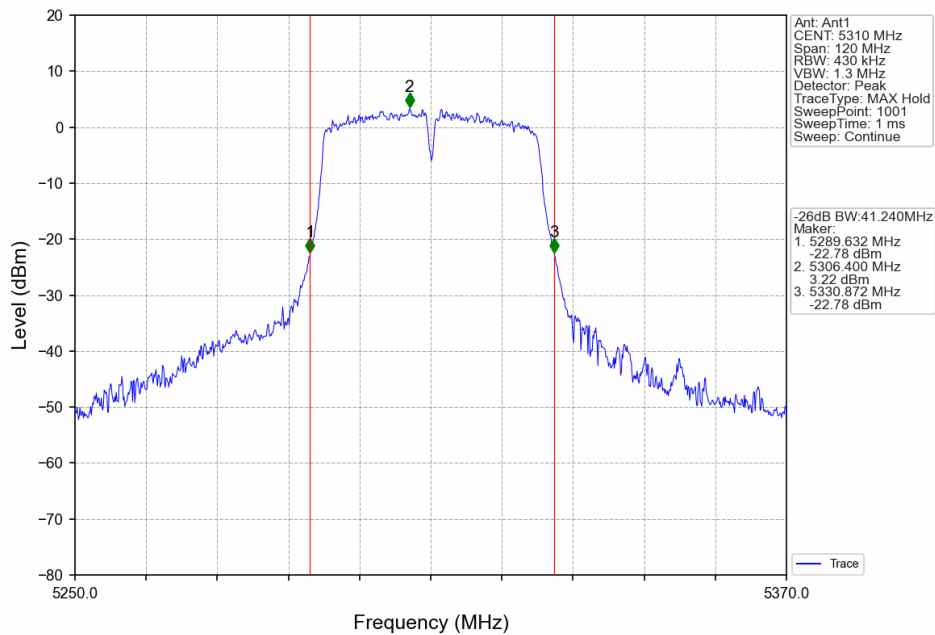


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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



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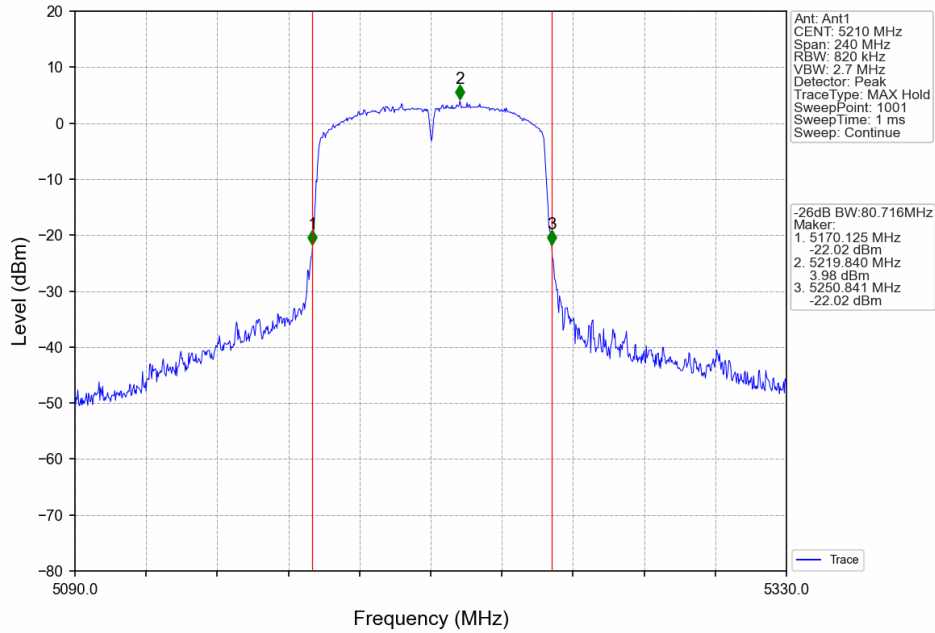
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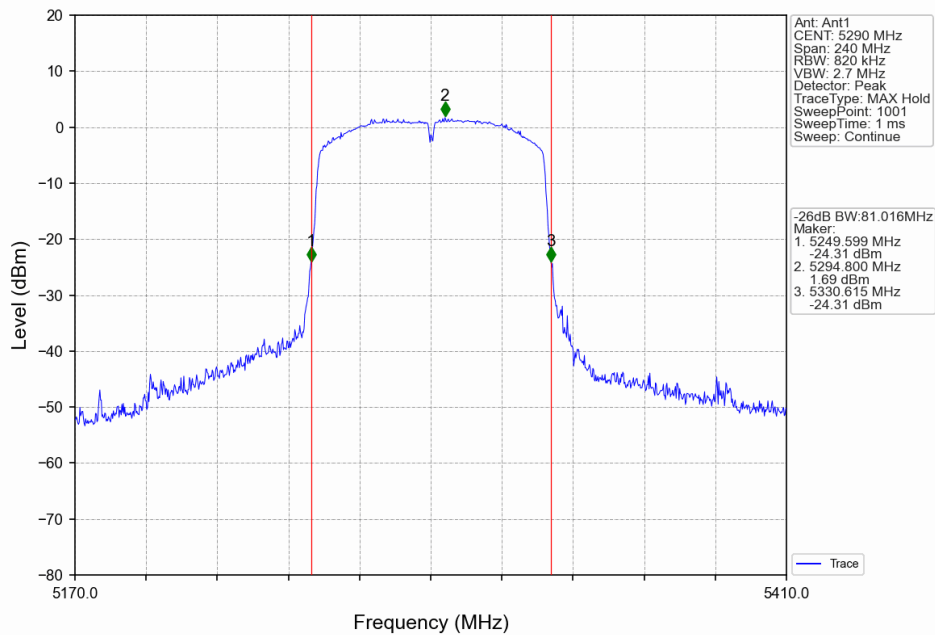
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	13.70	14.46	/	<=30	Pass
		5200	14.00	14.77	/	<=30	Pass
		5240	14.62	15.72	/	<=30	Pass
		5260	13.96	14.86	/	<=23.66	Pass
		5300	14.70	15.42	/	<=23.66	Pass
		5320	14.15	15.63	/	<=23.7	Pass
802.11n (HT20)	MIMO	5180	12.17	12.76	15.49	<=30	Pass
		5200	12.79	13.04	15.93	<=30	Pass
		5240	12.87	13.36	16.13	<=30	Pass
		5260	12.54	13.15	15.87	<=23.87	Pass
		5300	13.13	13.88	16.53	<=23.92	Pass
		5320	12.66	13.71	16.23	<=23.87	Pass
802.11n (HT40)	MIMO	5190	11.80	12.19	15.01	<=30	Pass
		5230	12.37	12.96	15.69	<=30	Pass
		5270	12.49	13.08	15.81	<=23.98	Pass
		5310	12.58	13.41	16.03	<=23.98	Pass
802.11ac (VHT20)	MIMO	5180	11.87	12.51	15.21	<=30	Pass
		5200	12.52	13.00	15.78	<=30	Pass
		5240	12.80	13.36	16.10	<=30	Pass
		5260	12.69	13.16	15.94	<=23.9	Pass
		5300	13.46	14.13	16.82	<=23.87	Pass
		5320	12.90	13.99	16.49	<=23.88	Pass
802.11ac (VHT40)	MIMO	5190	13.54	13.27	16.42	<=30	Pass
		5230	12.59	13.06	15.84	<=30	Pass
		5270	12.19	12.48	15.35	<=23.98	Pass
		5310	12.75	13.60	16.21	<=23.98	Pass
802.11ac (VHT80)	MIMO	5210	11.33	11.77	14.57	<=30	Pass
		5290	11.64	12.00	14.83	<=23.98	Pass

Note1: Antenna Gain: 2.58dBi (Ant1& Ant2)

Note2: Directional Gain: 2.58dBi



4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	2.19	2.81	/	<=17	Pass
		5200	2.66	3.19	/	<=17	Pass
		5240	3.27	3.60	/	<=17	Pass
		5260	2.63	3.38	/	<=11	Pass
		5300	3.34	4.06	/	<=11	Pass
		5320	2.72	3.83	/	<=11	Pass
802.11n (HT20)	MIMO	5180	0.53	1.14	3.83	<=17	Pass
		5200	1.55	1.69	4.57	<=17	Pass
		5240	1.19	1.77	4.49	<=17	Pass
		5260	0.90	1.51	4.19	<=11	Pass
		5300	1.84	2.46	5.14	<=11	Pass
		5320	1.13	2.30	4.68	<=11	Pass
802.11n (HT40)	MIMO	5190	-2.29	-2.26	0.62	<=17	Pass
		5230	-1.68	-1.49	1.28	<=17	Pass
		5270	-1.56	-0.87	1.73	<=11	Pass
		5310	-1.28	-0.62	2.02	<=11	Pass
802.11ac (VHT20)	MIMO	5180	0.51	1.02	3.68	<=17	Pass
		5200	1.16	1.47	4.18	<=17	Pass
		5240	1.47	1.89	4.55	<=17	Pass
		5260	1.13	1.68	4.36	<=11	Pass
		5300	1.98	2.65	5.21	<=11	Pass
		5320	1.38	2.71	5.05	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-0.51	-1.18	2.14	<=17	Pass
		5230	-1.73	-1.01	1.56	<=17	Pass
		5270	-1.96	-1.64	1.13	<=11	Pass
		5310	-1.18	-0.39	2.12	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-5.90	-5.50	-2.79	<=17	Pass
		5290	-5.52	-5.04	-2.35	<=11	Pass

Note1: Antenna Gain: 2.58dBi (Ant1& Ant2)

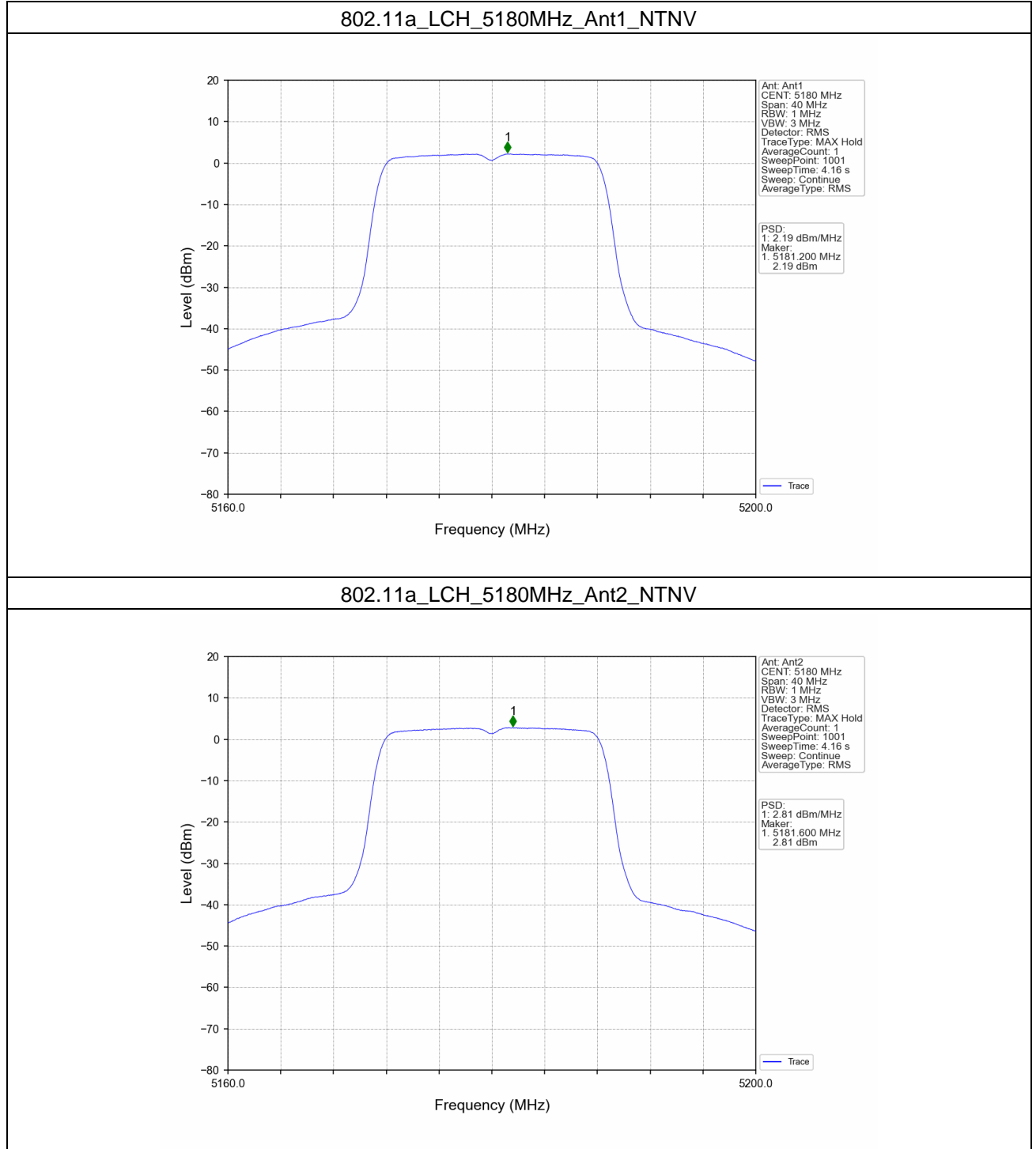
Note2: Directional Gain: 5.59dBi (for PSD)



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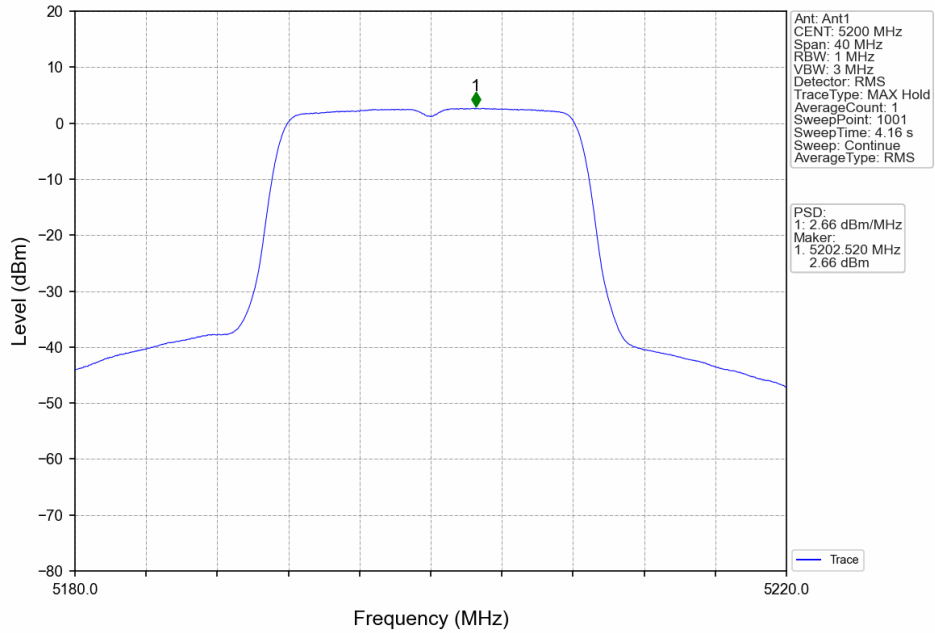
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4.1.2 Test Graph

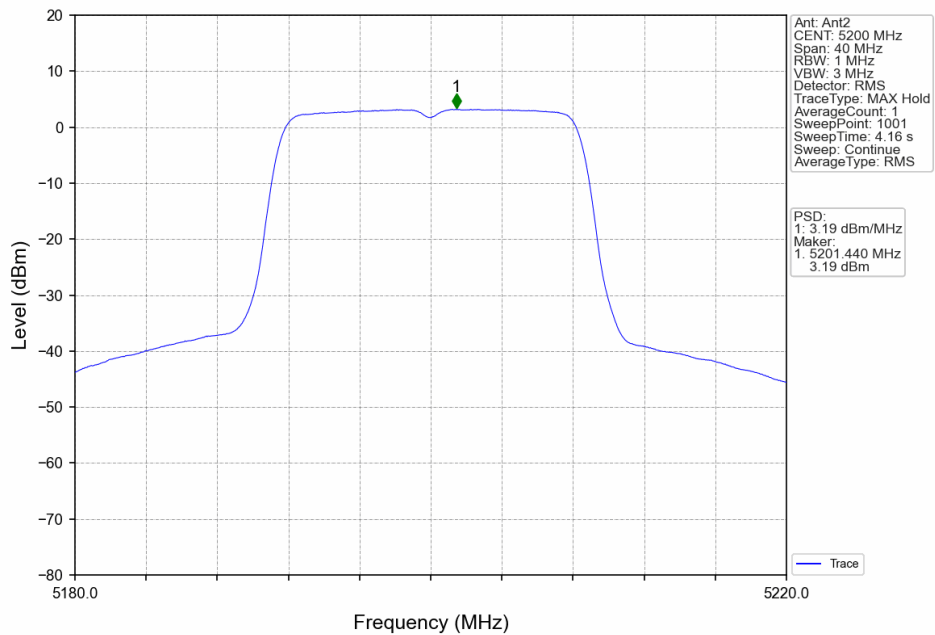


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802.11a_MCH_5200MHz_Ant1_NTNV

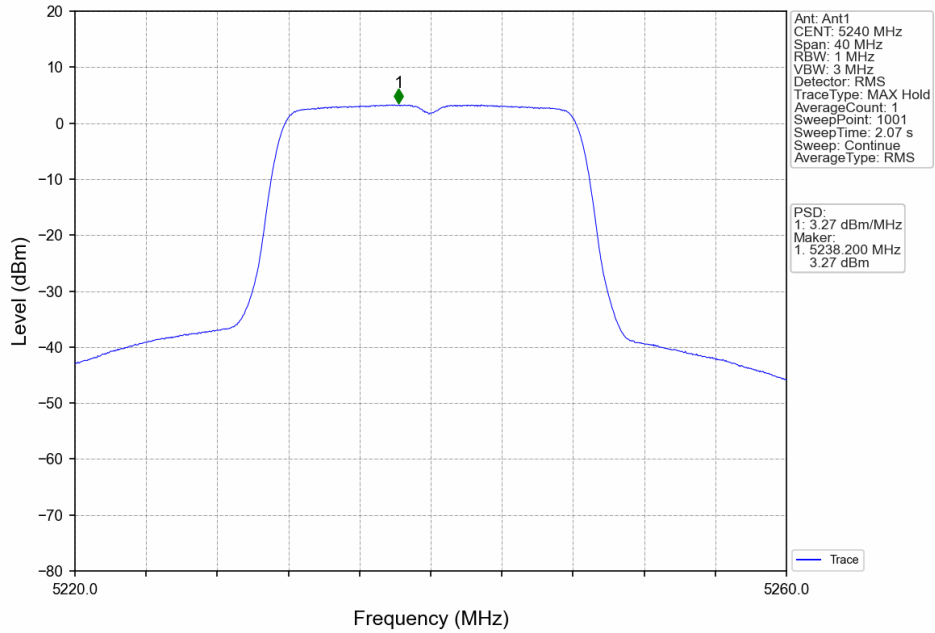


802.11a_MCH_5200MHz_Ant2_NTNV

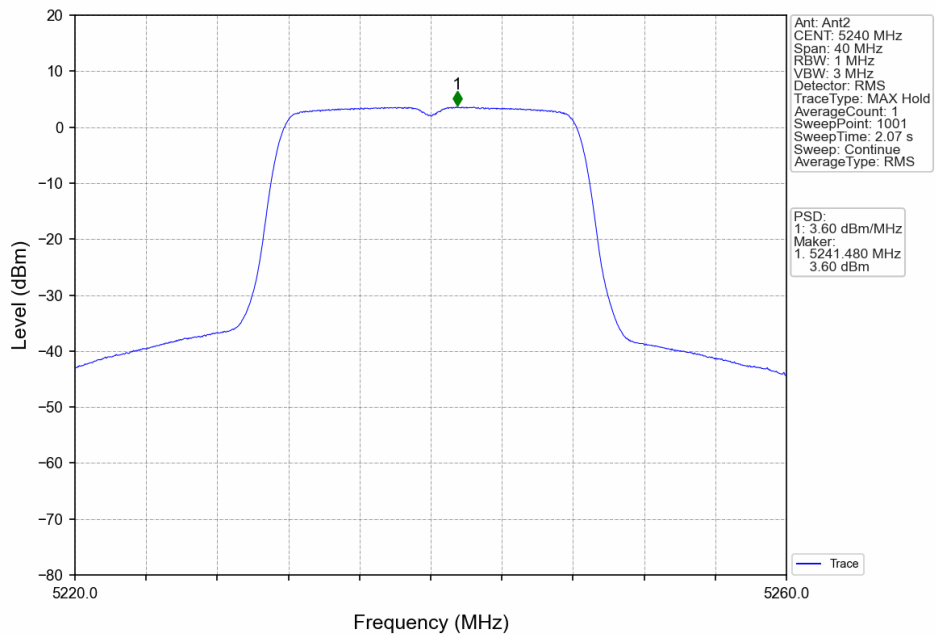


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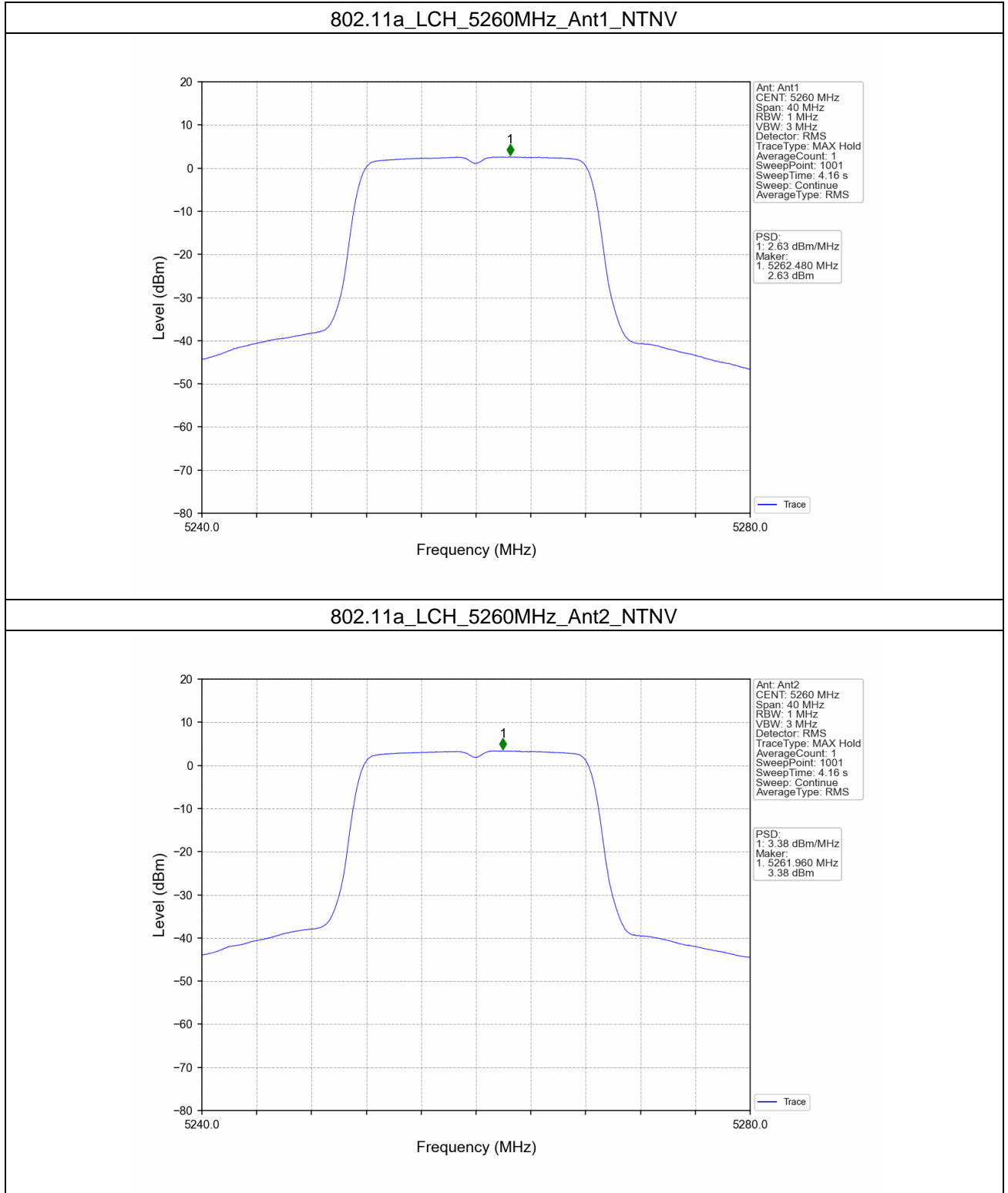
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV

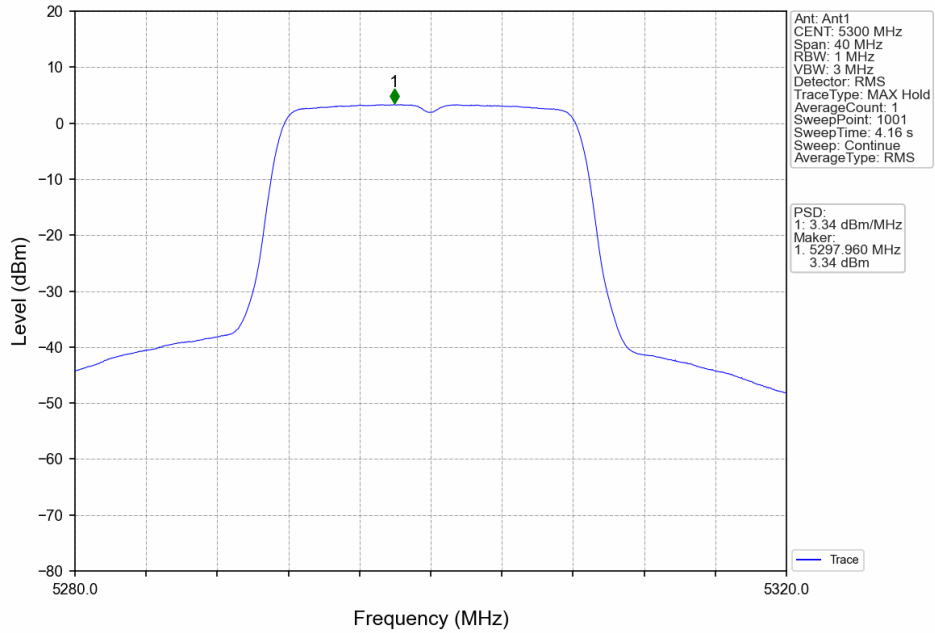


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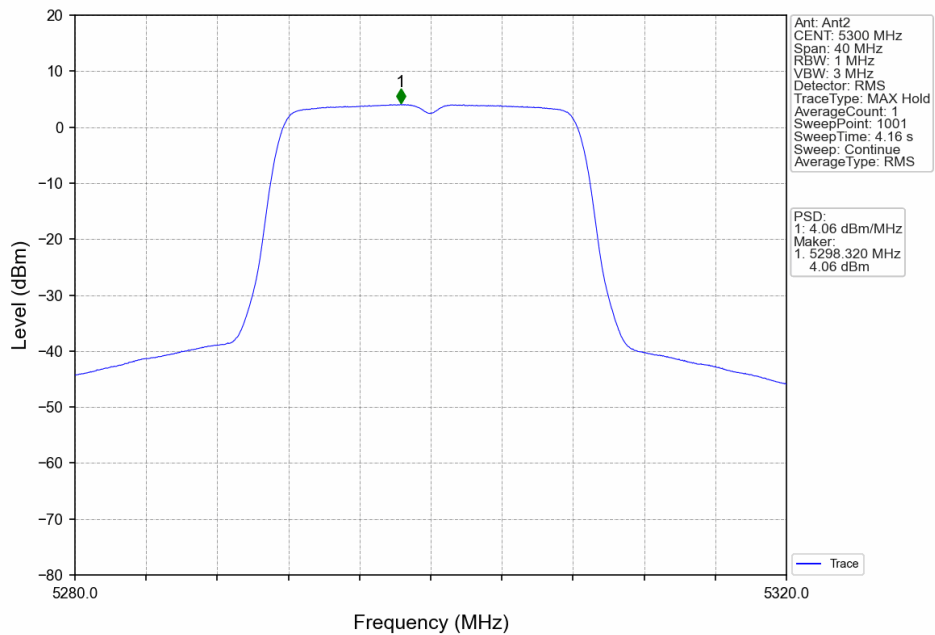


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802.11a_MCH_5300MHz_Ant1_NTNV

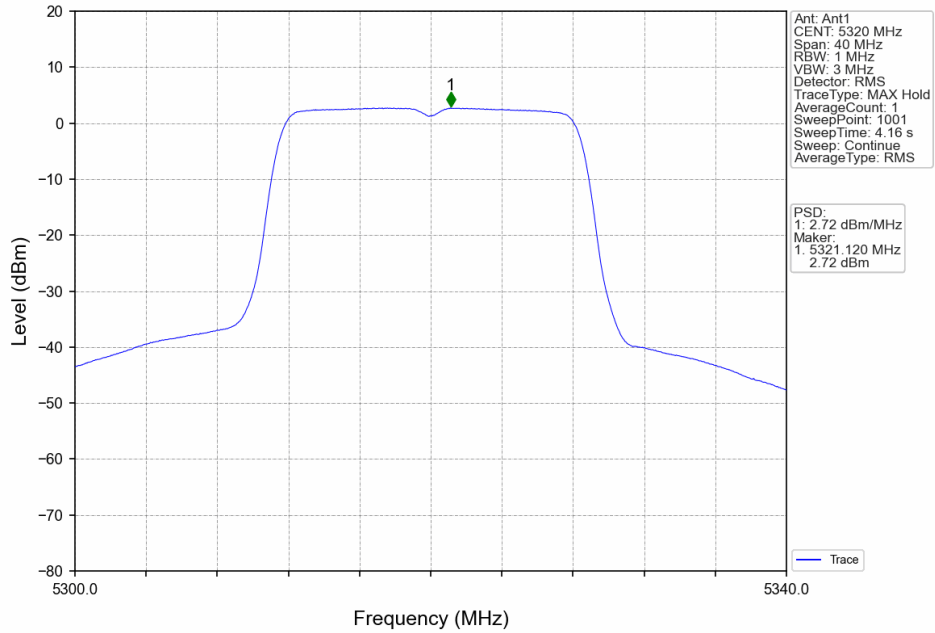


802.11a_MCH_5300MHz_Ant2_NTNV

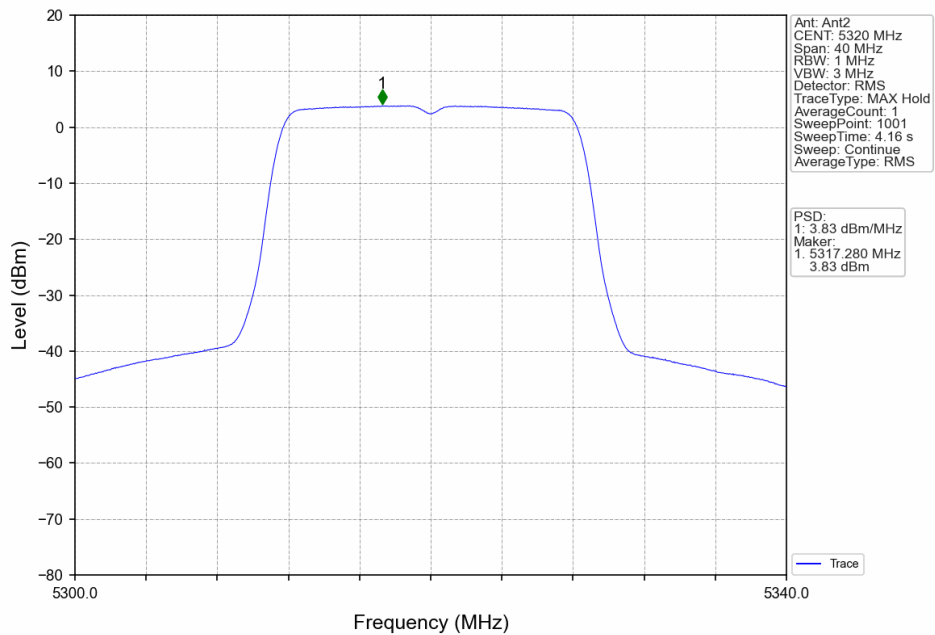


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802.11a_HCH_5320MHz_Ant1_NTNV

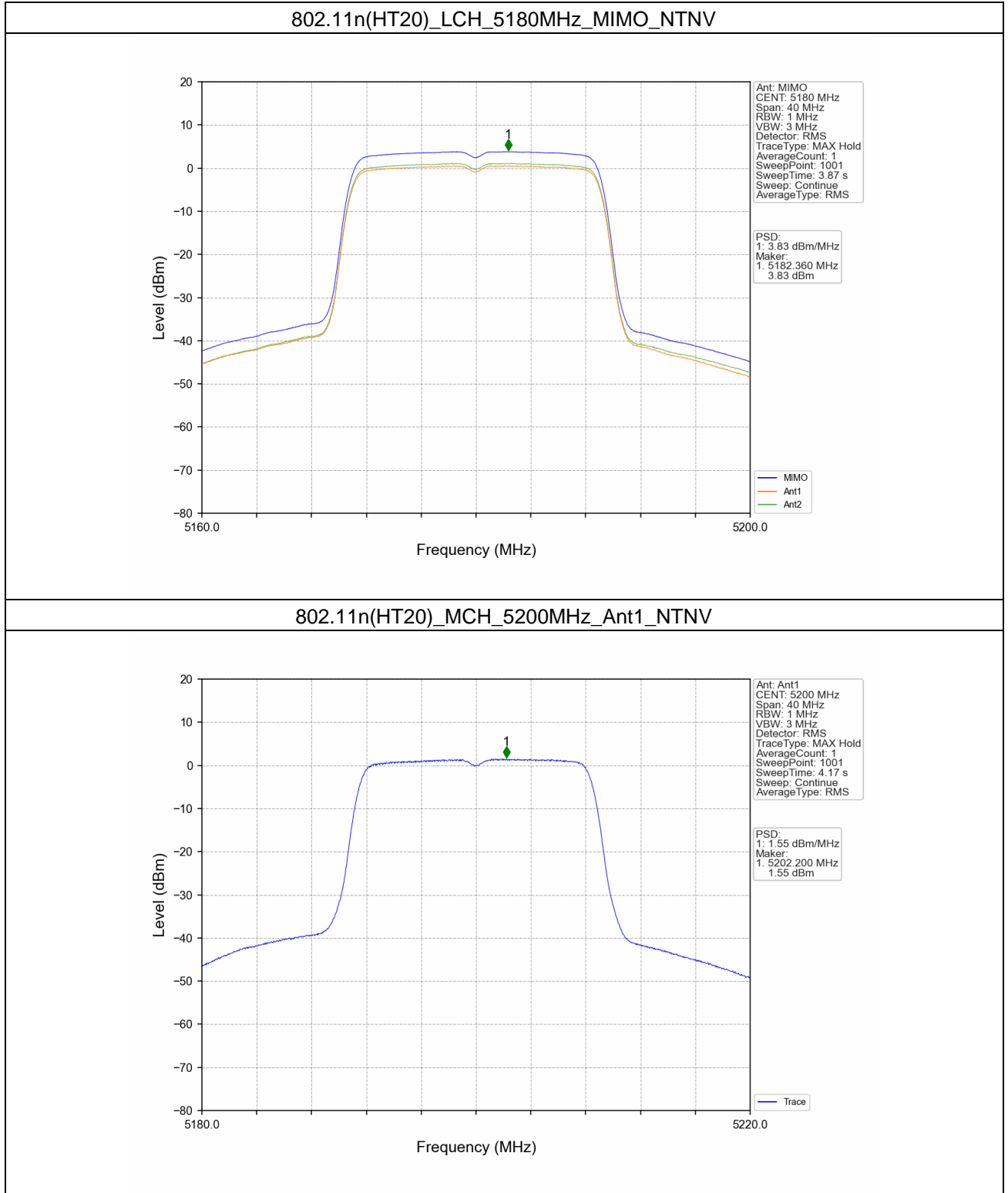


802.11a_HCH_5320MHz_Ant2_NTNV



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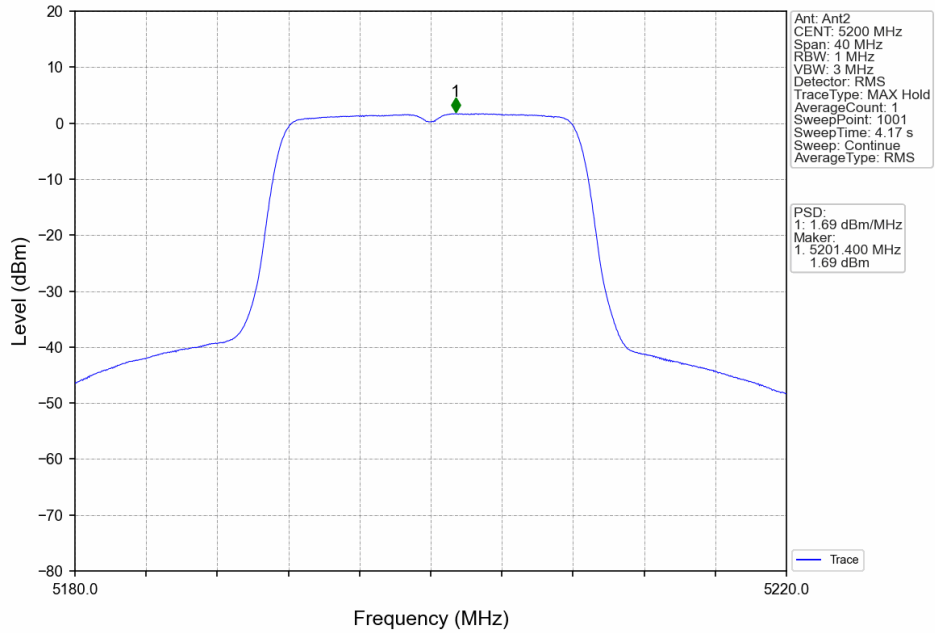
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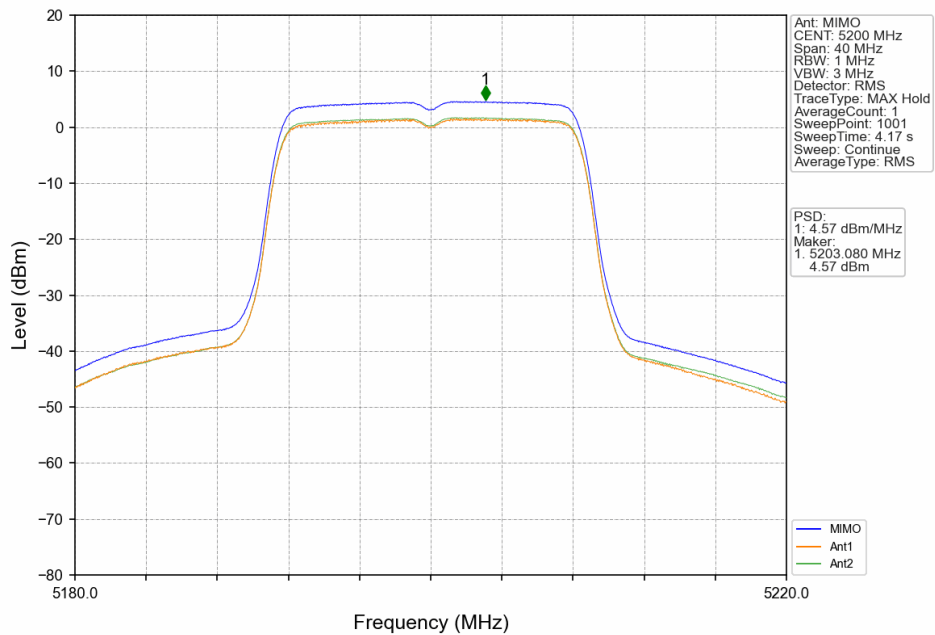
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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV

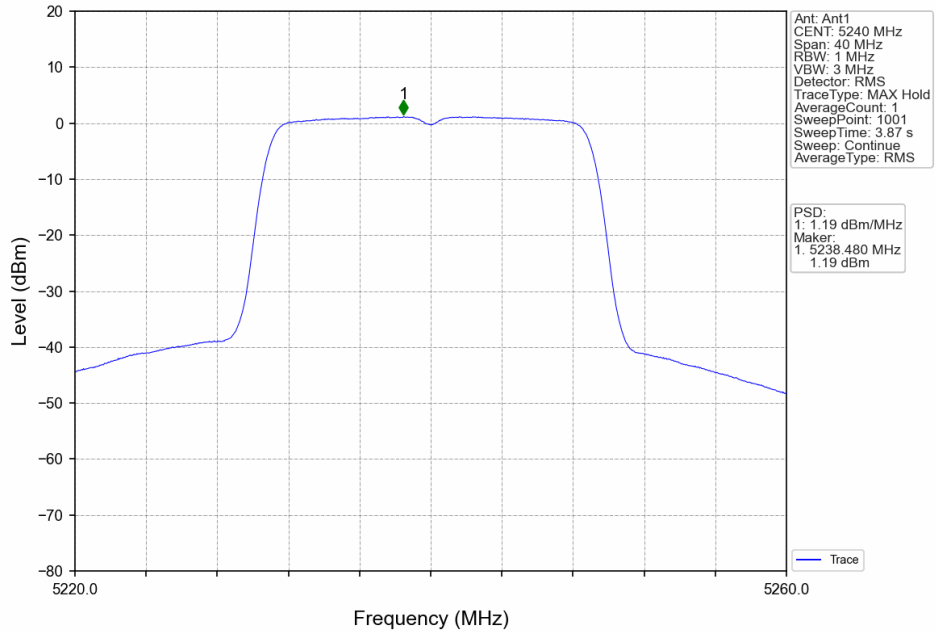


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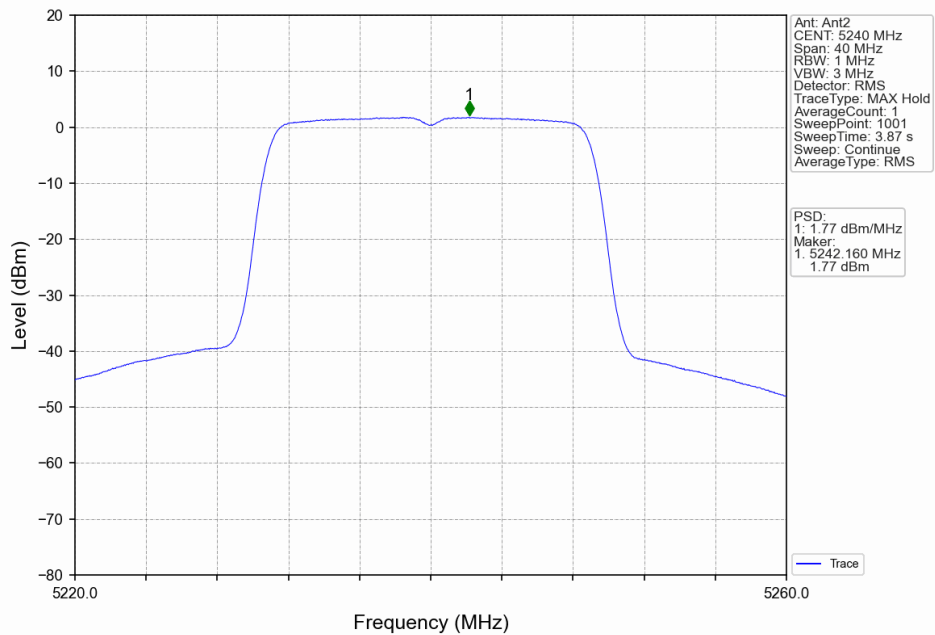


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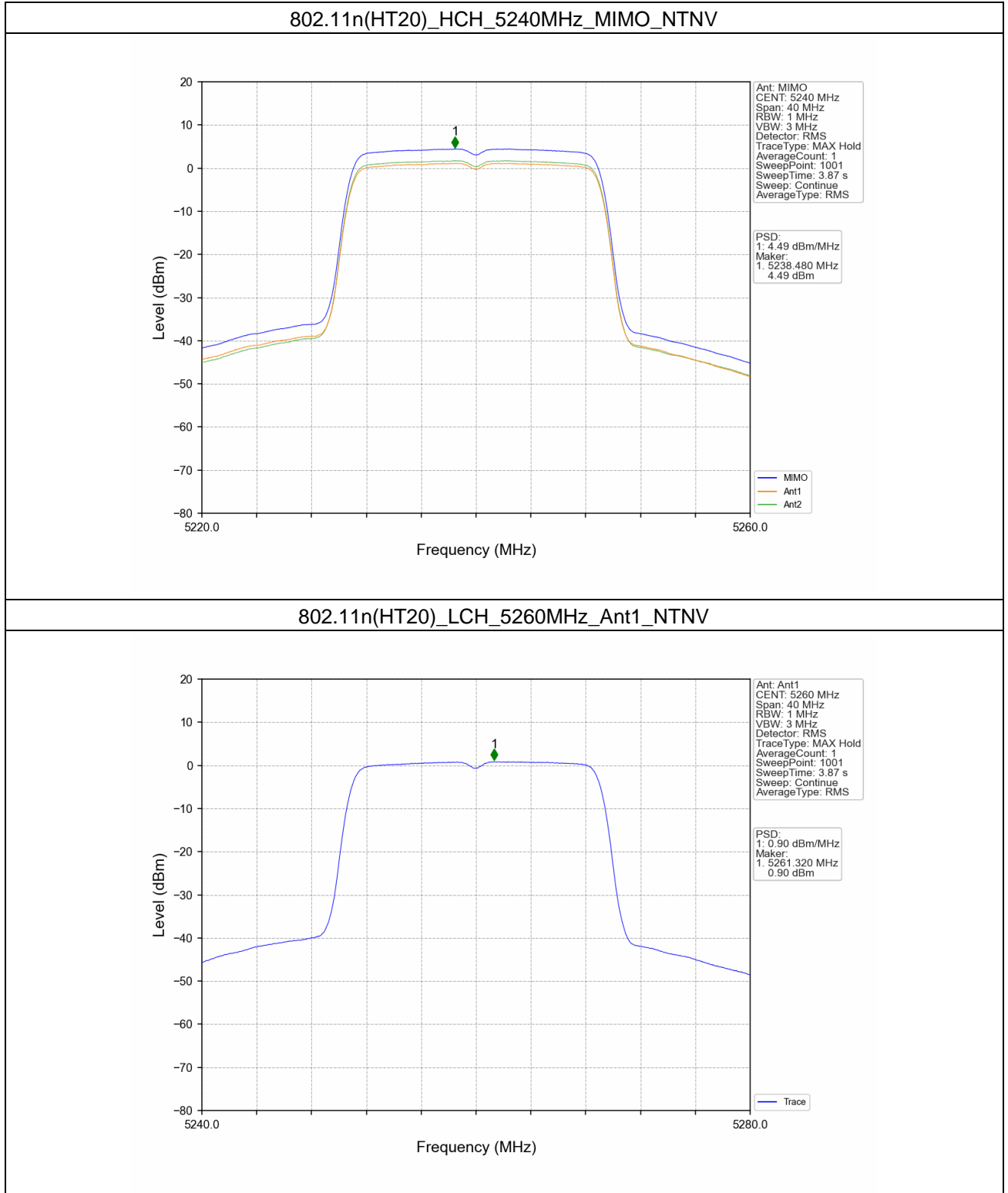
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



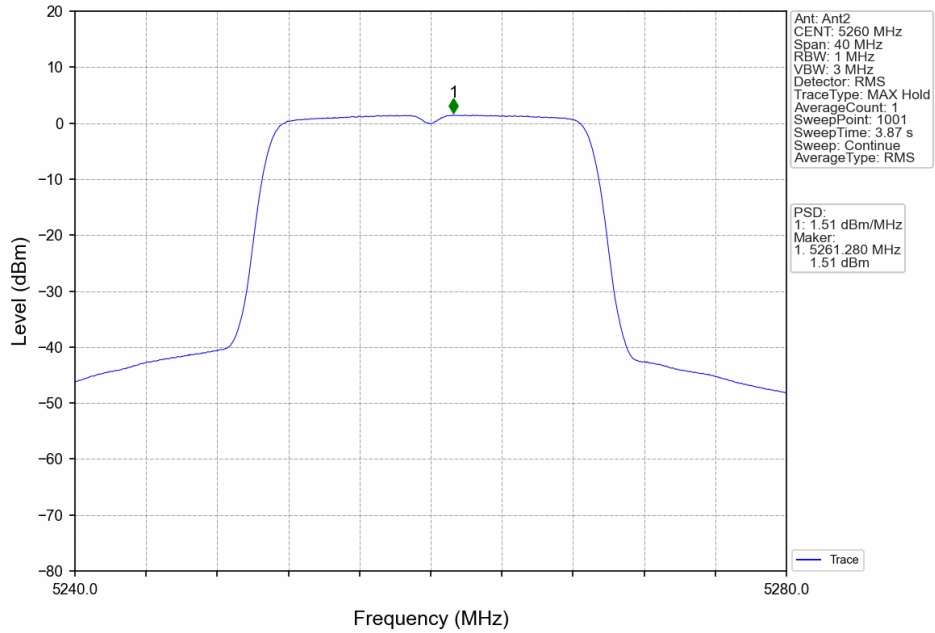
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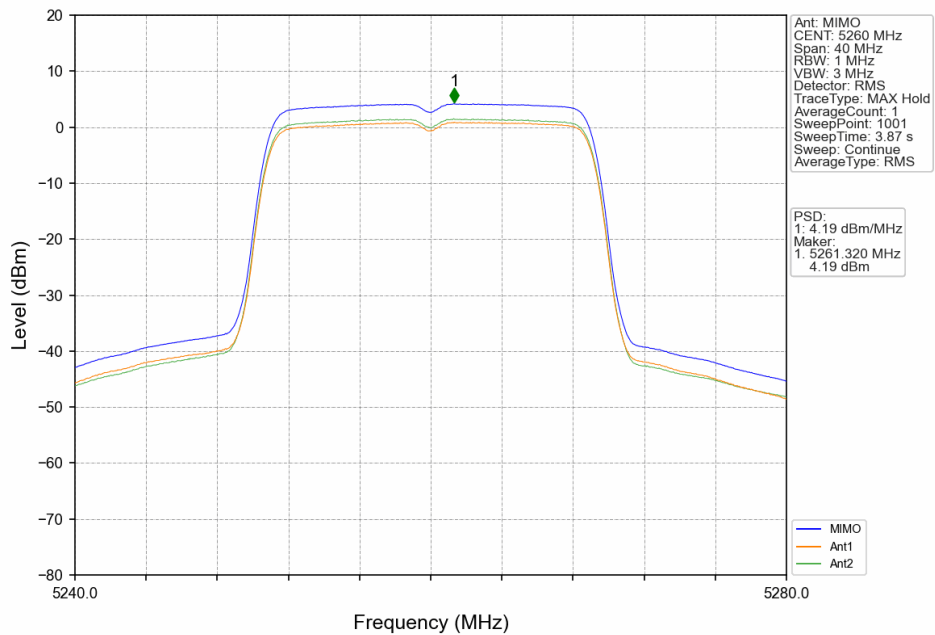
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802.11n(HT20)_LCH_5260MHz_Ant2_NTNV



802.11n(HT20)_LCH_5260MHz_MIMO_NTNV

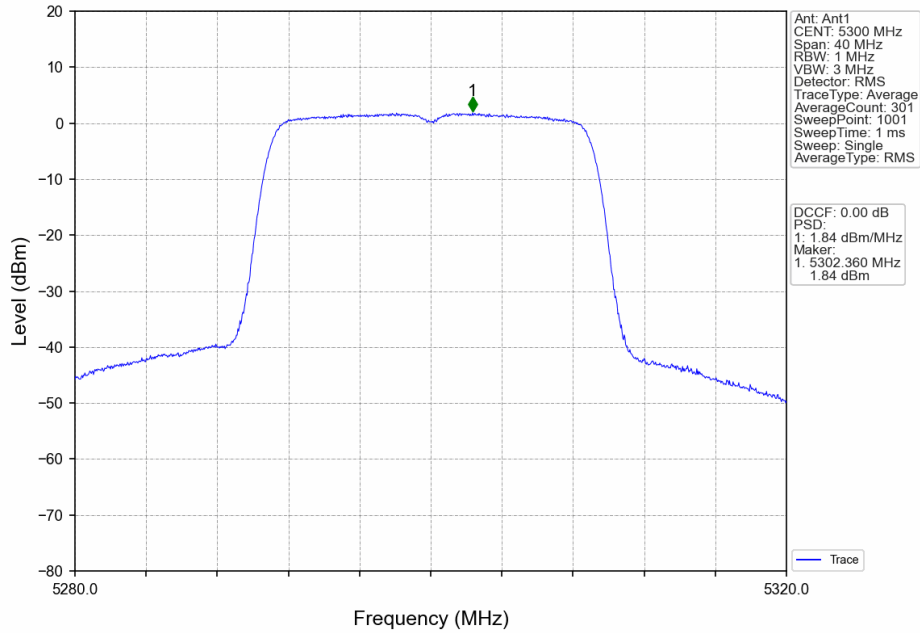


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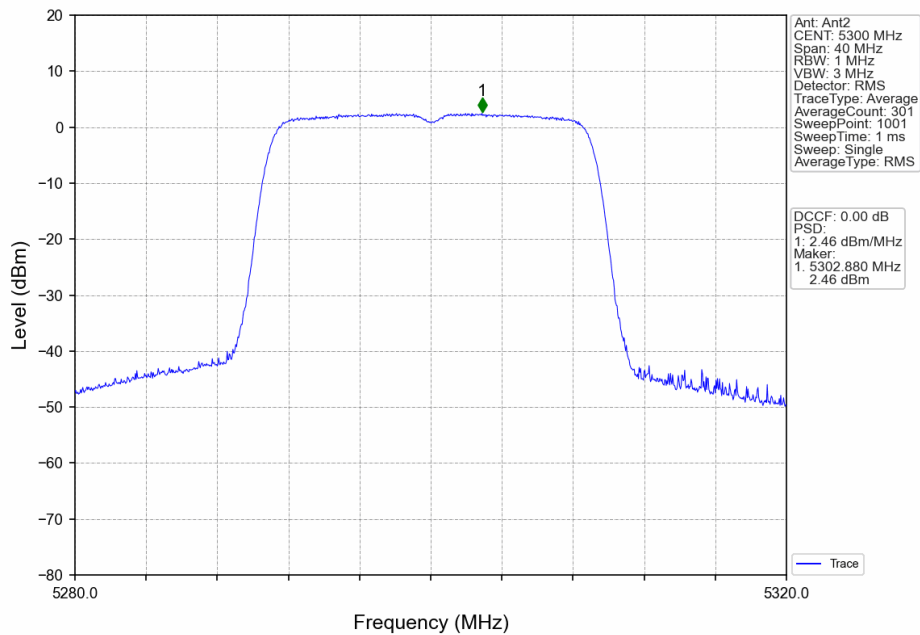
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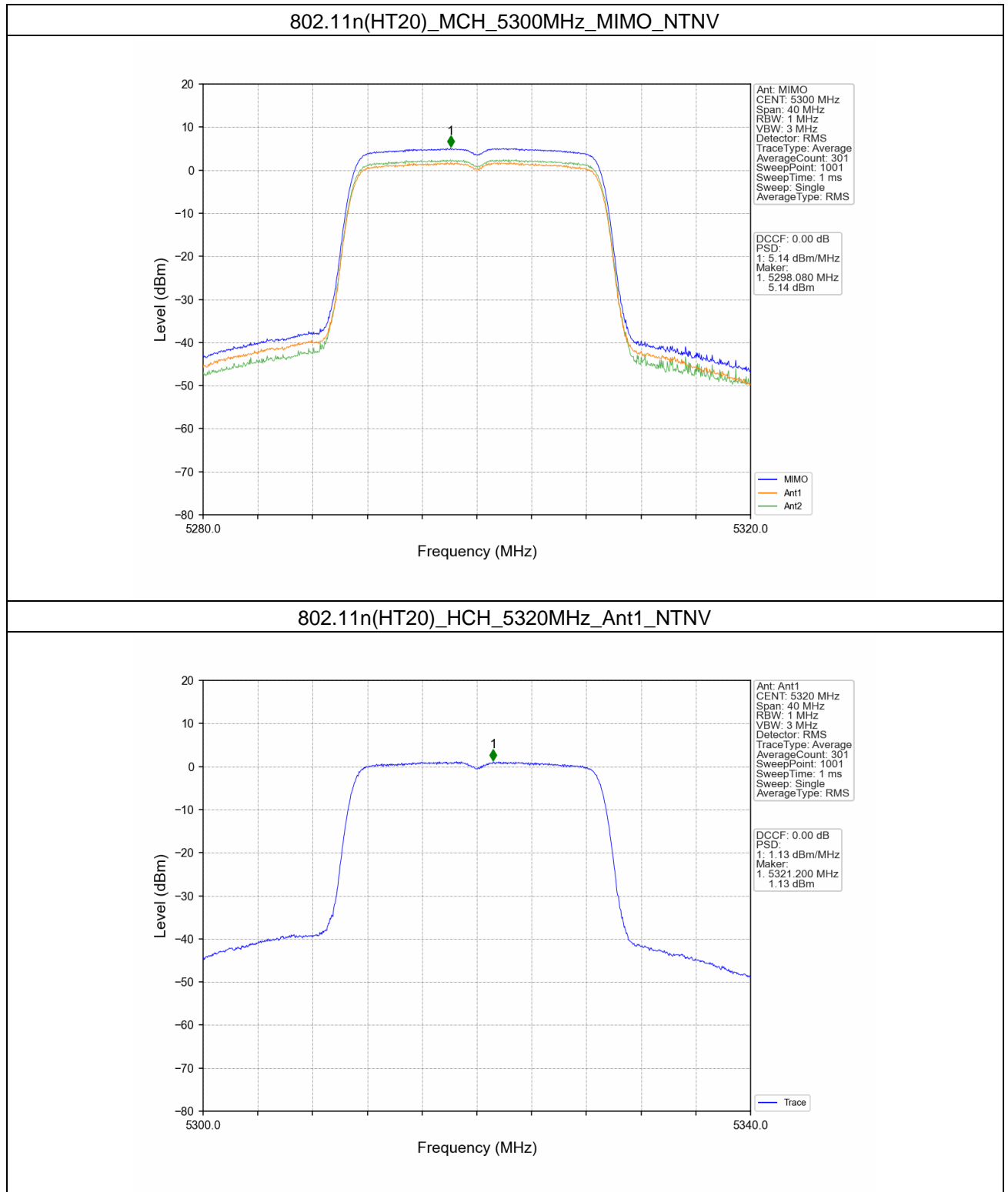
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant2_NTNV



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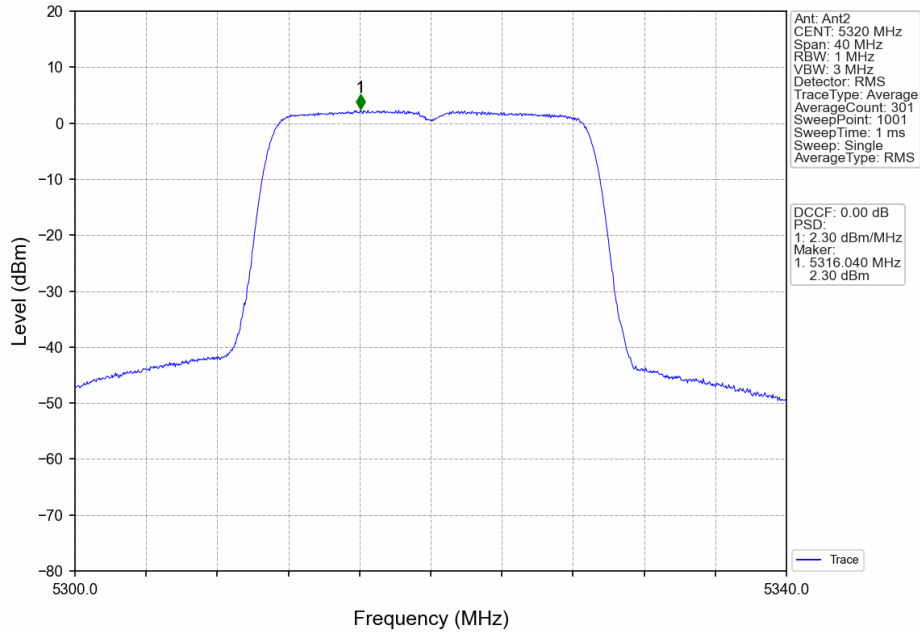


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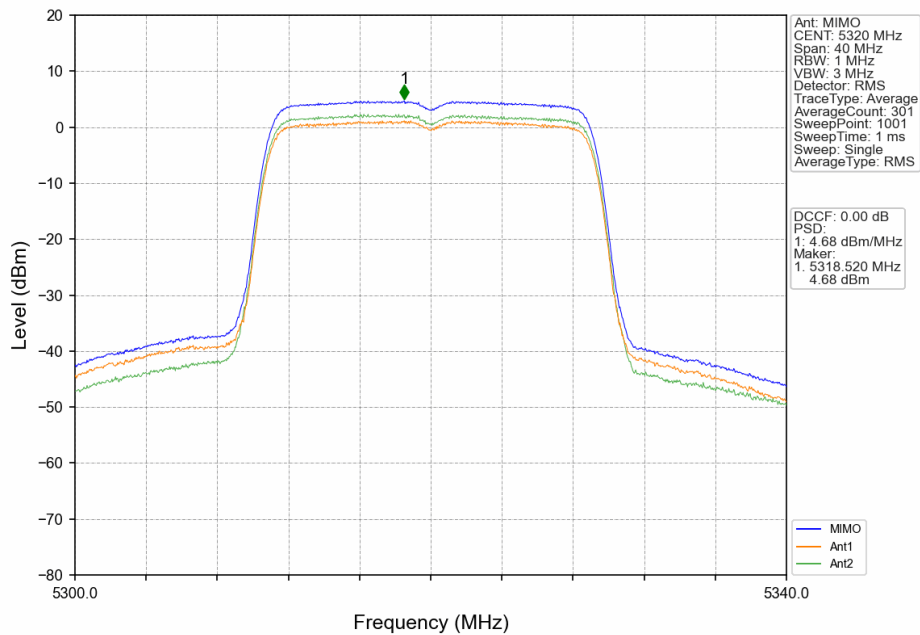
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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11n(HT20)_HCH_5320MHz_Ant2_NTNV

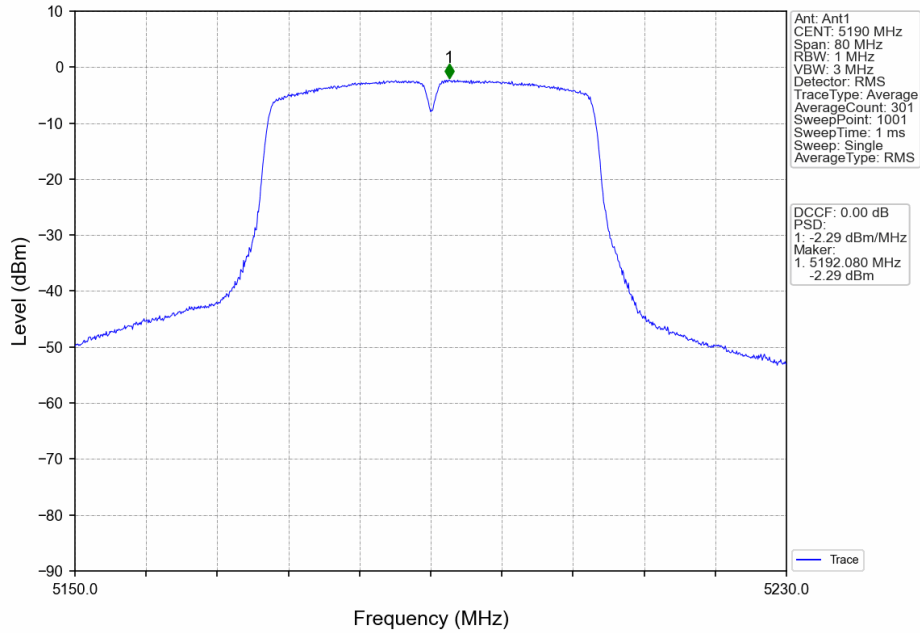


802.11n(HT20)_HCH_5320MHz_MIMO_NTNV

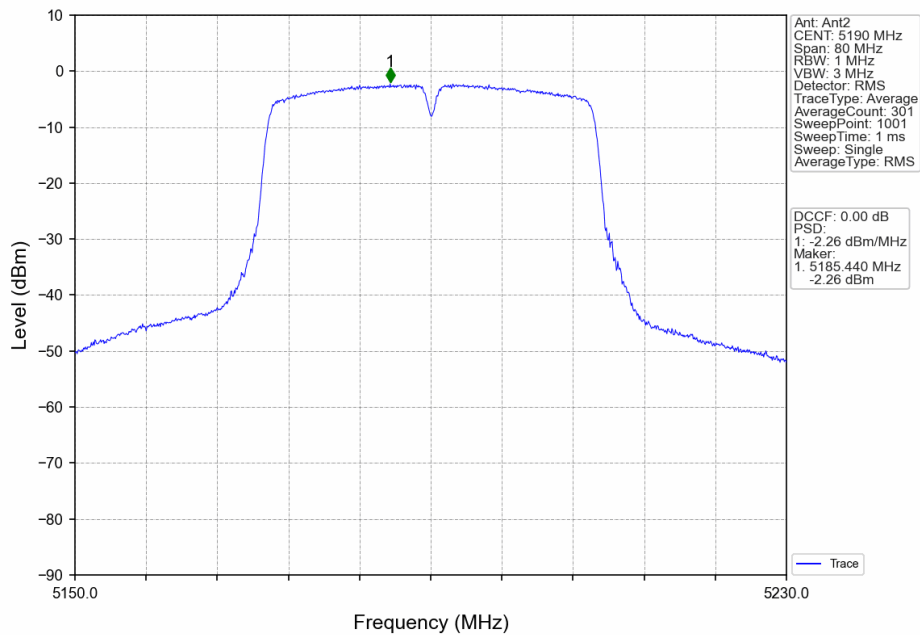


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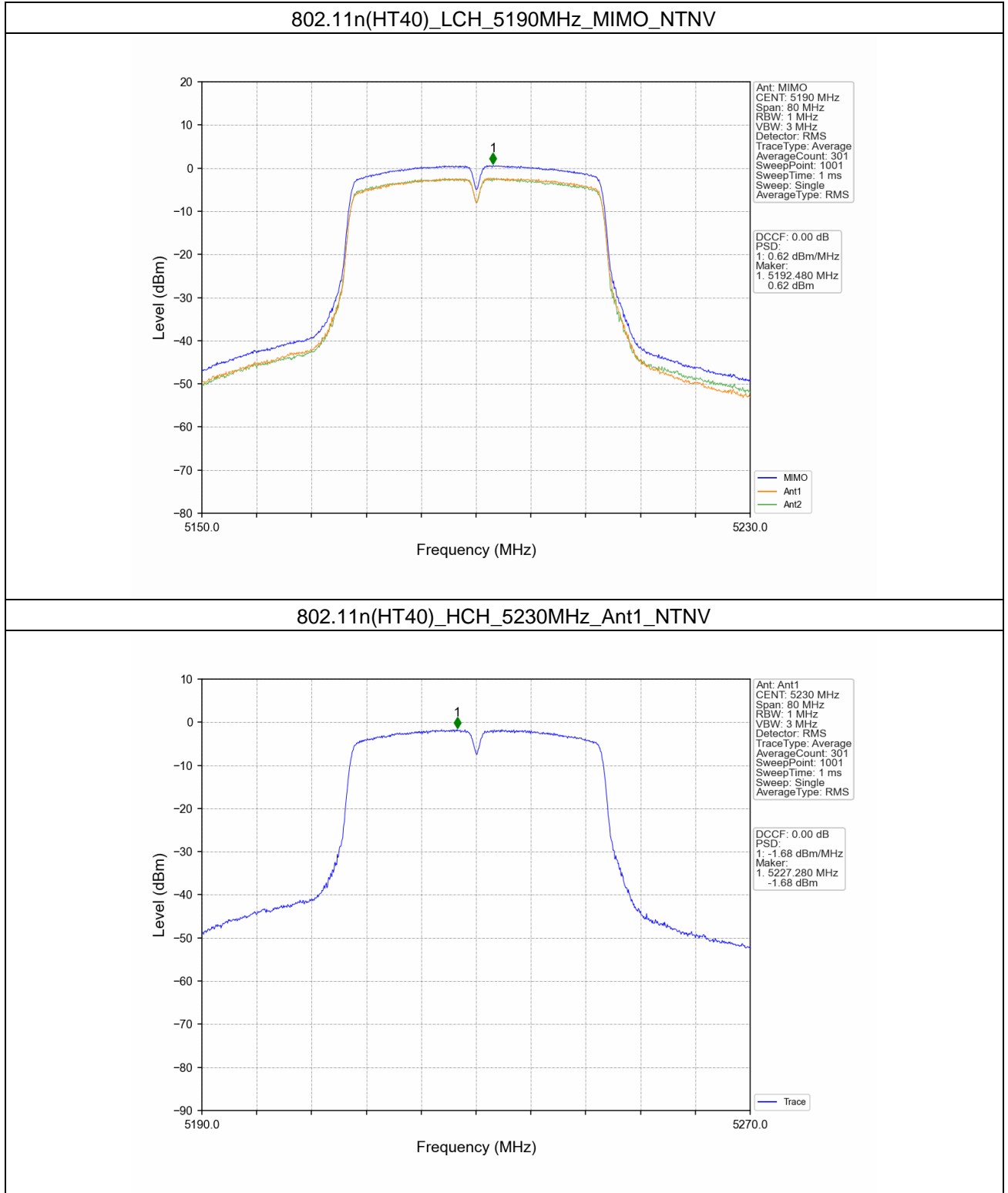
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant2_NTNV

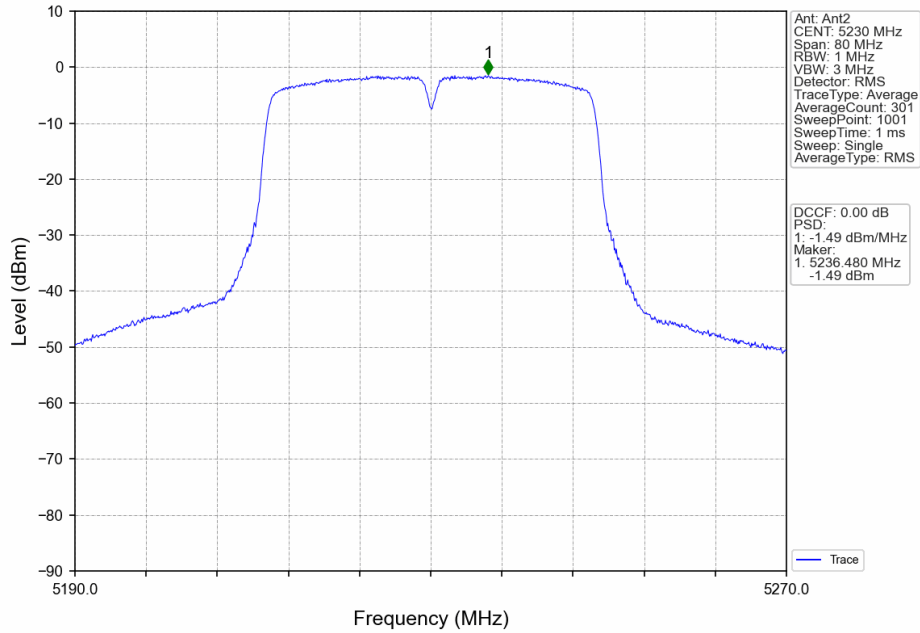


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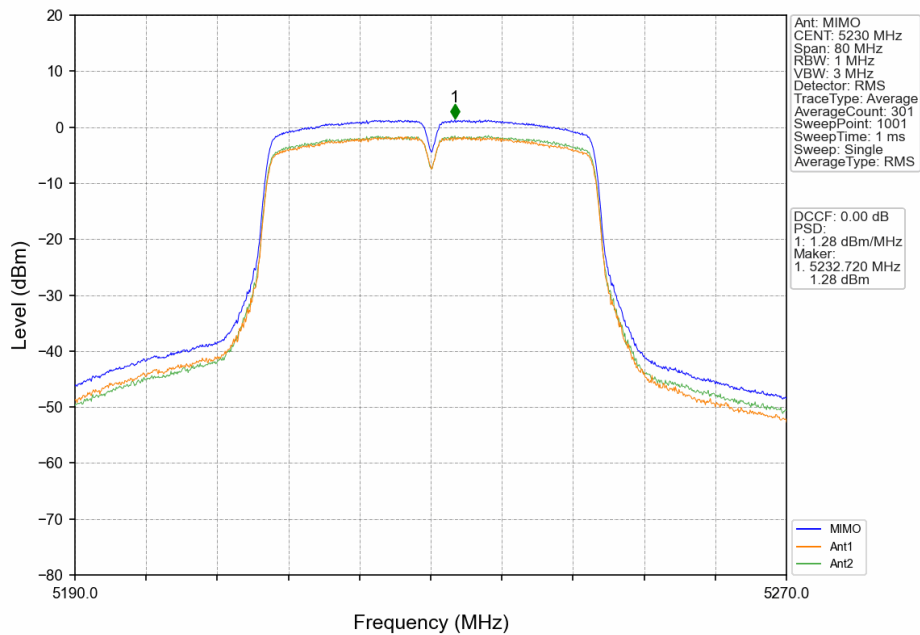


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802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



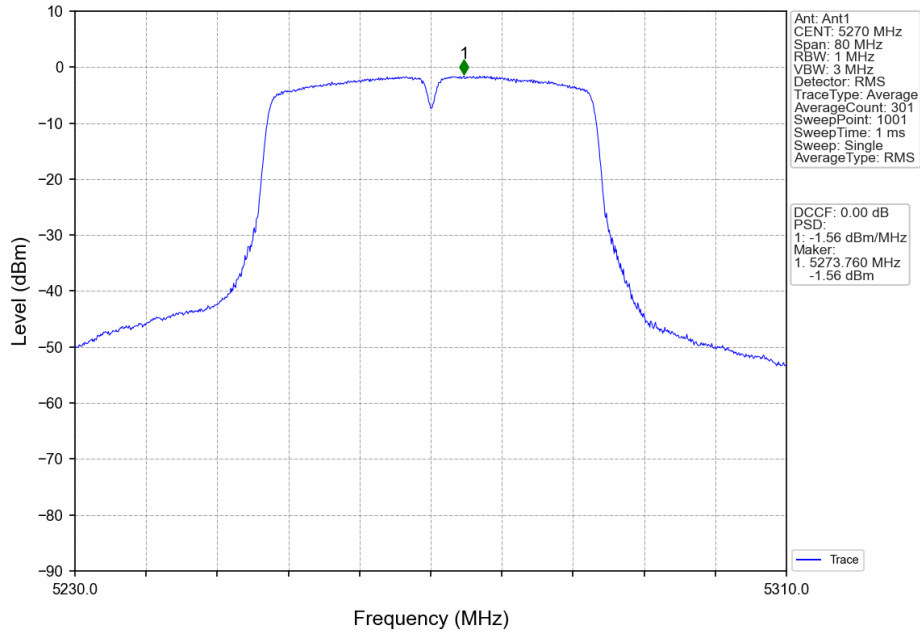
802.11n(HT40)_HCH_5230MHz_MIMO_NTNV



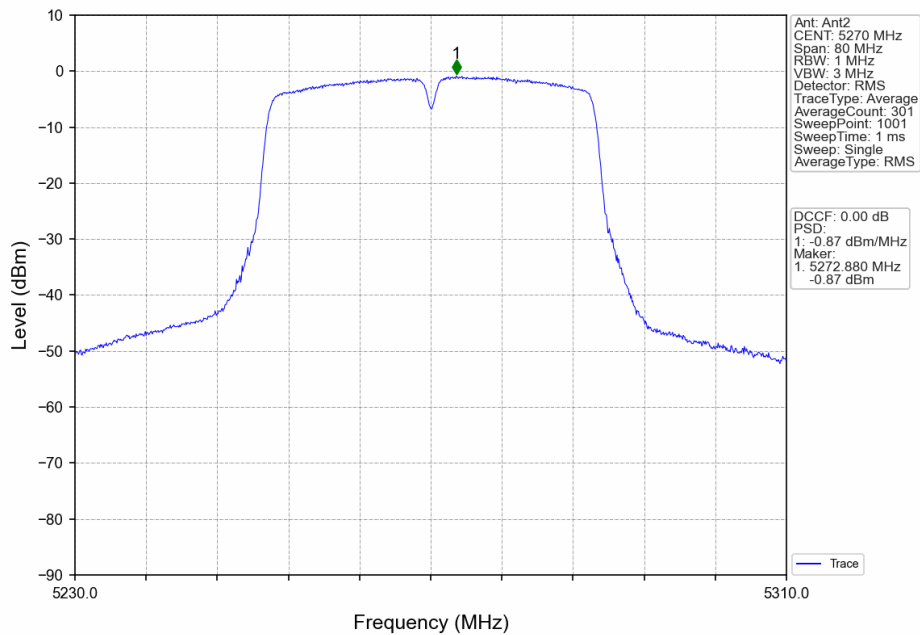
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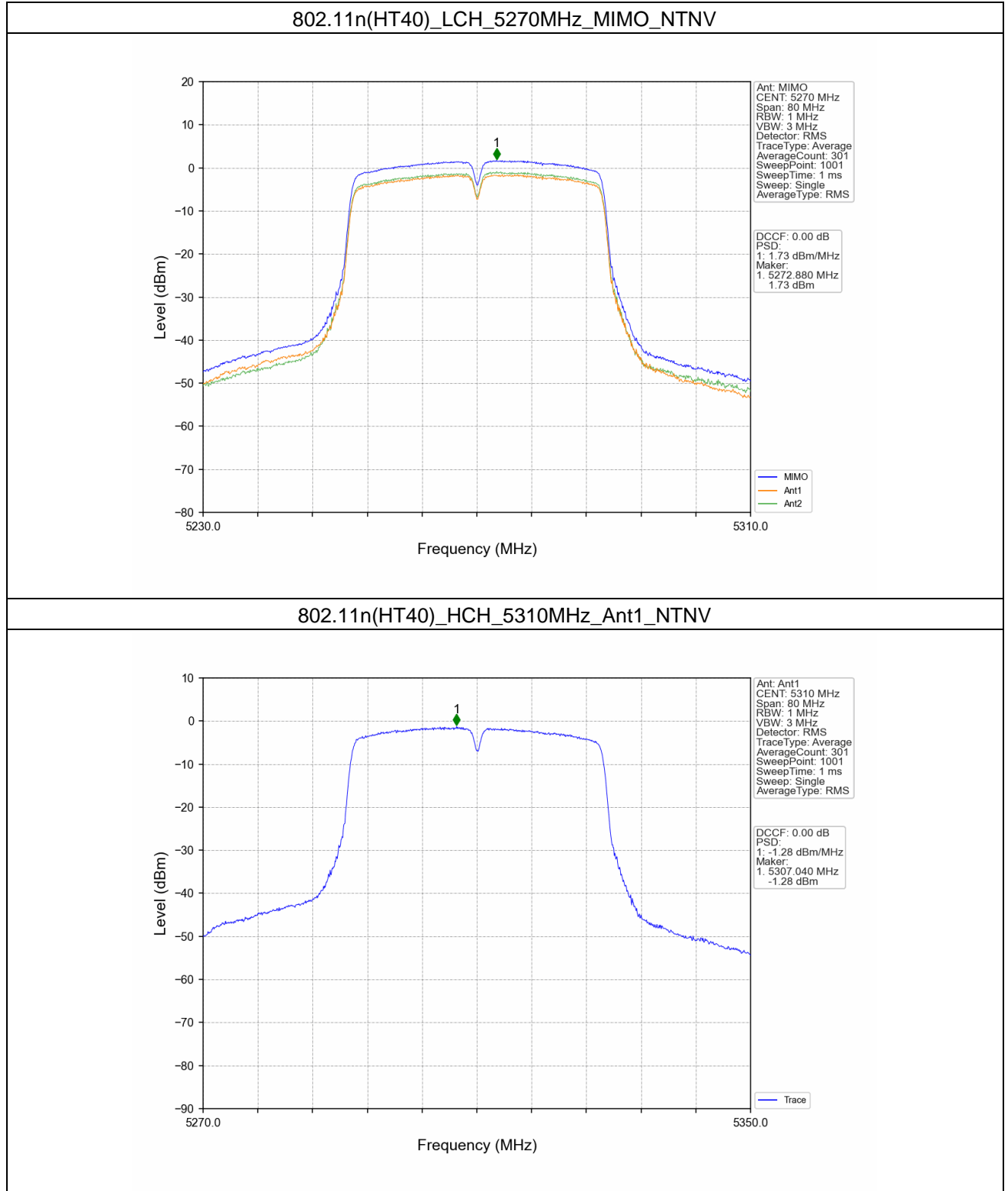
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant2_NTNV

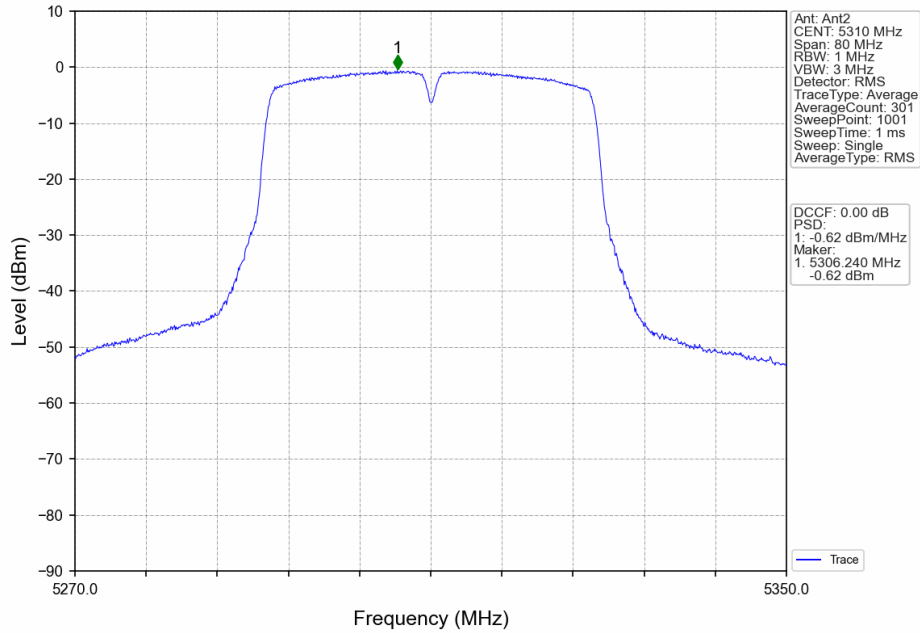


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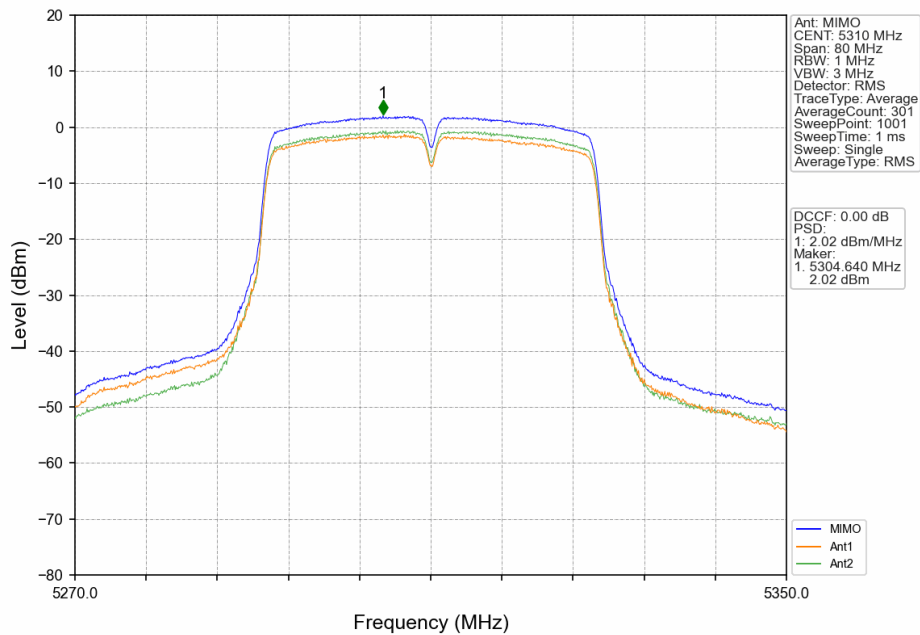


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802.11n(HT40)_HCH_5310MHz_Ant2_NTNV

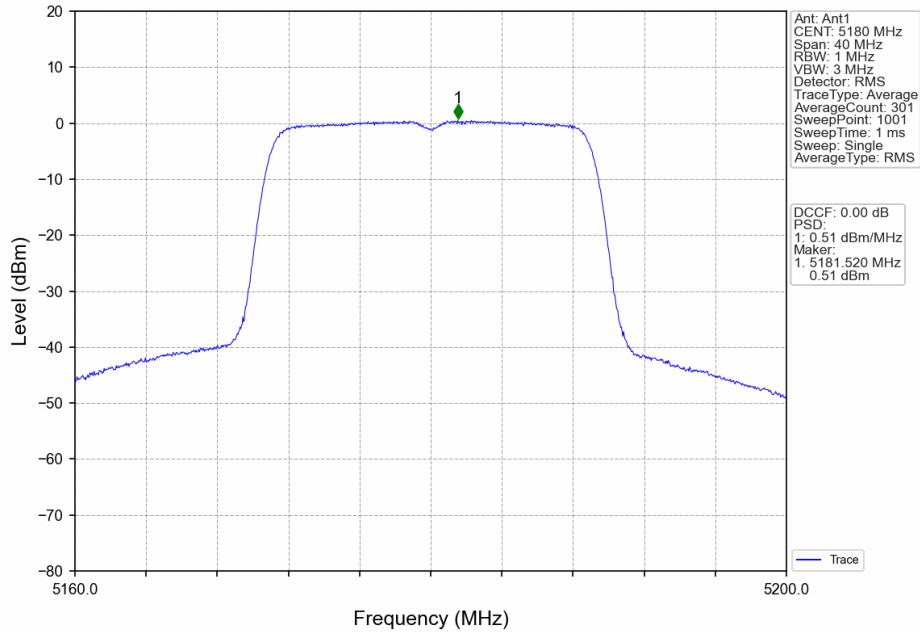


802.11n(HT40)_HCH_5310MHz_MIMO_NTNV

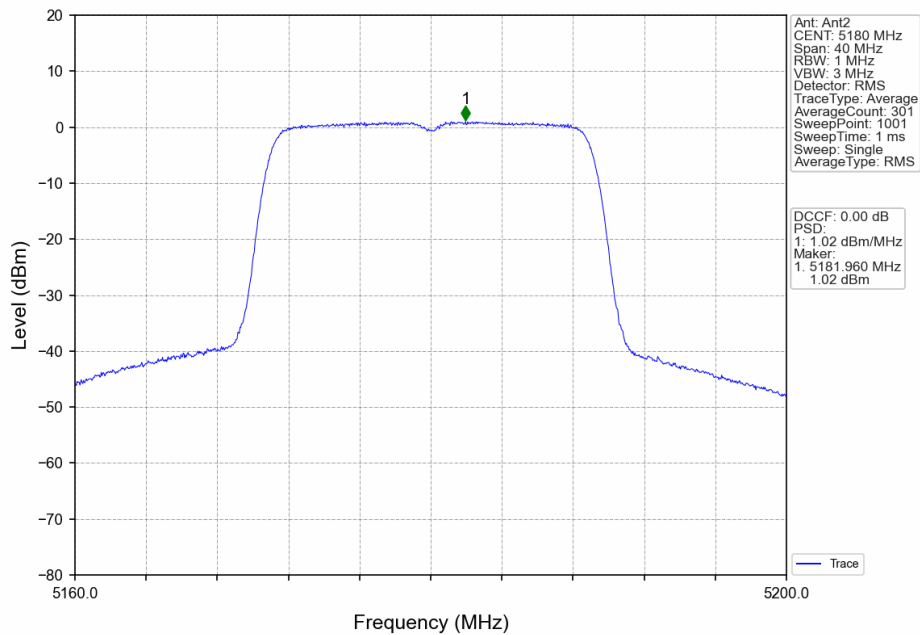


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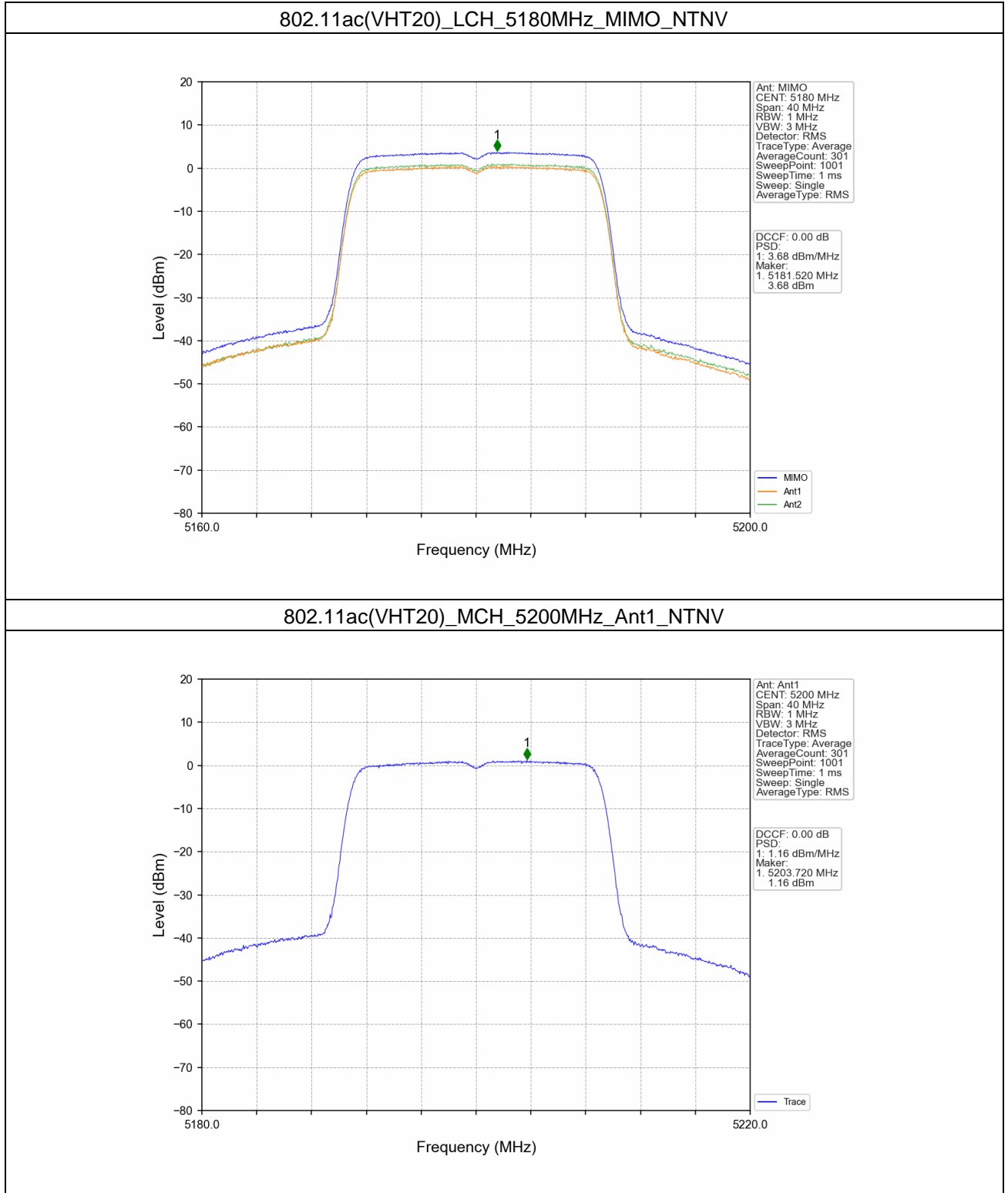
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV

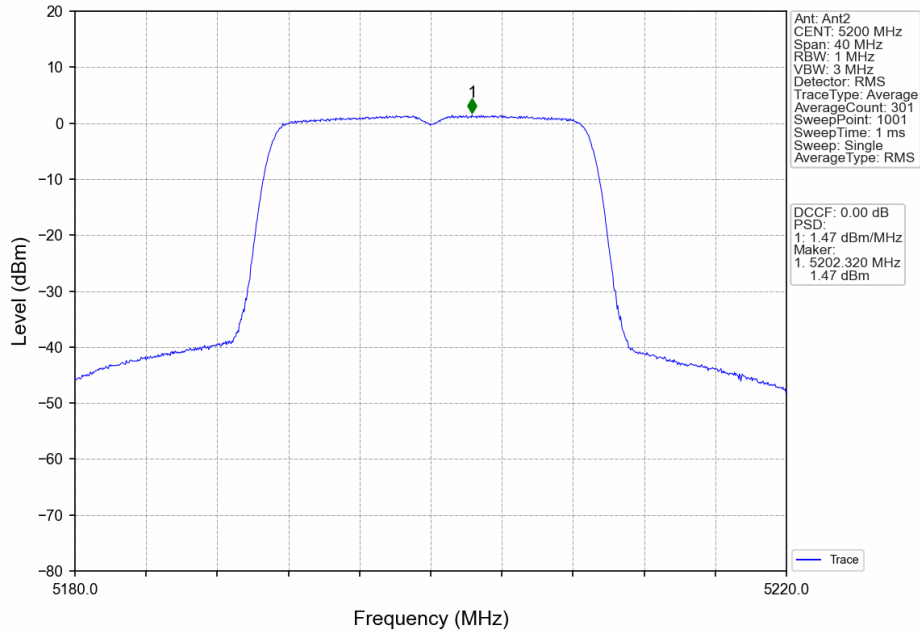


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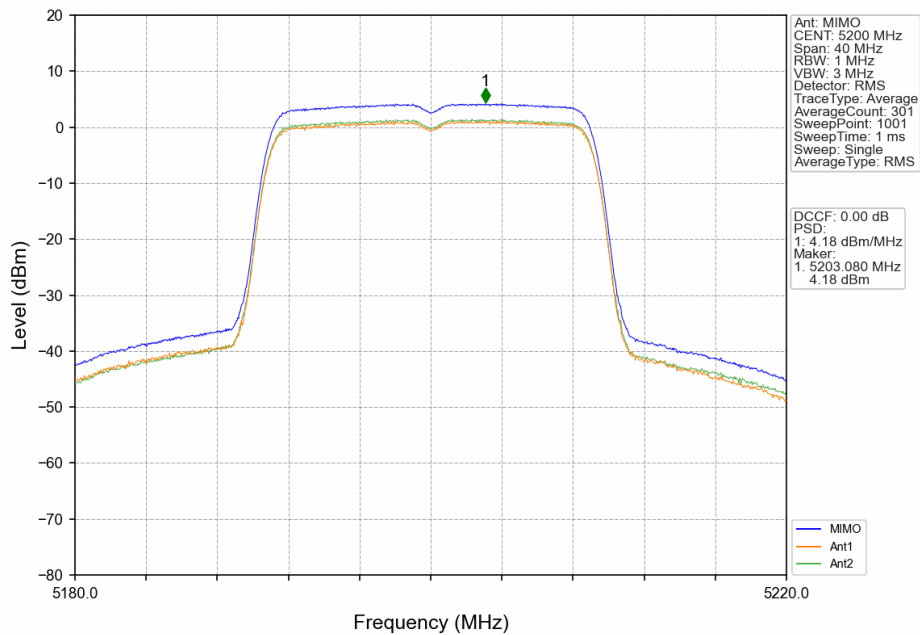


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802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV

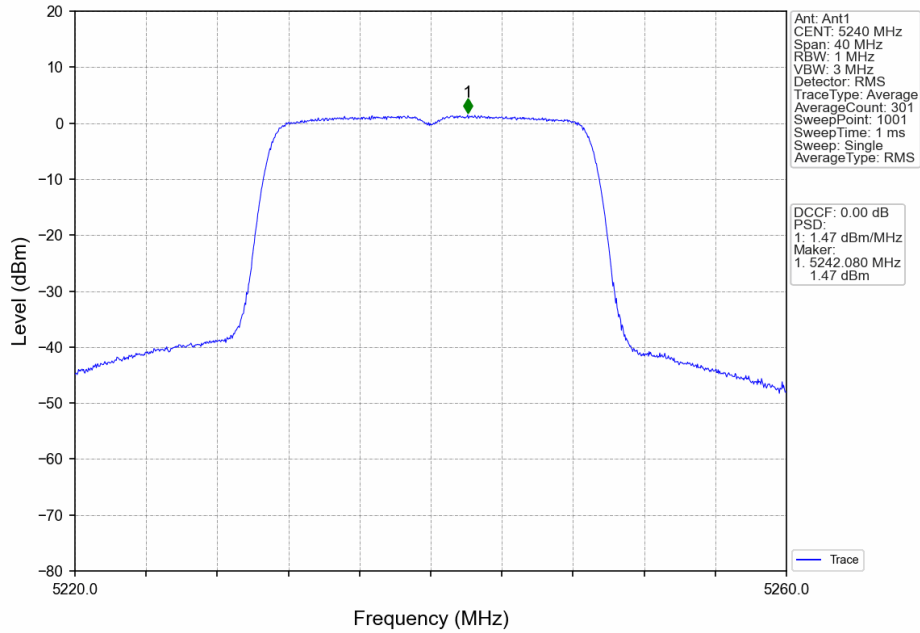


802.11ac(VHT20)_MCH_5200MHz_MIMO_NTNV

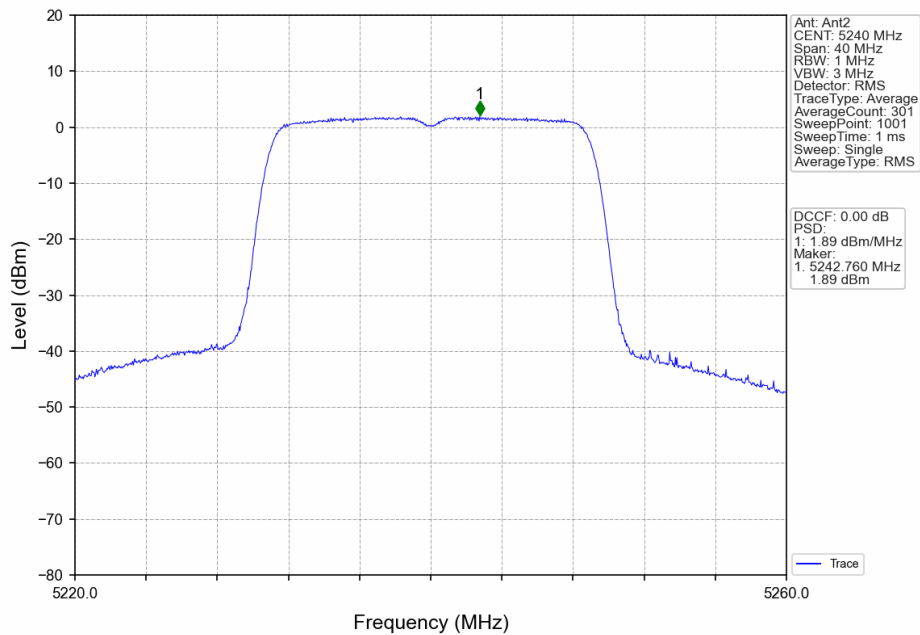


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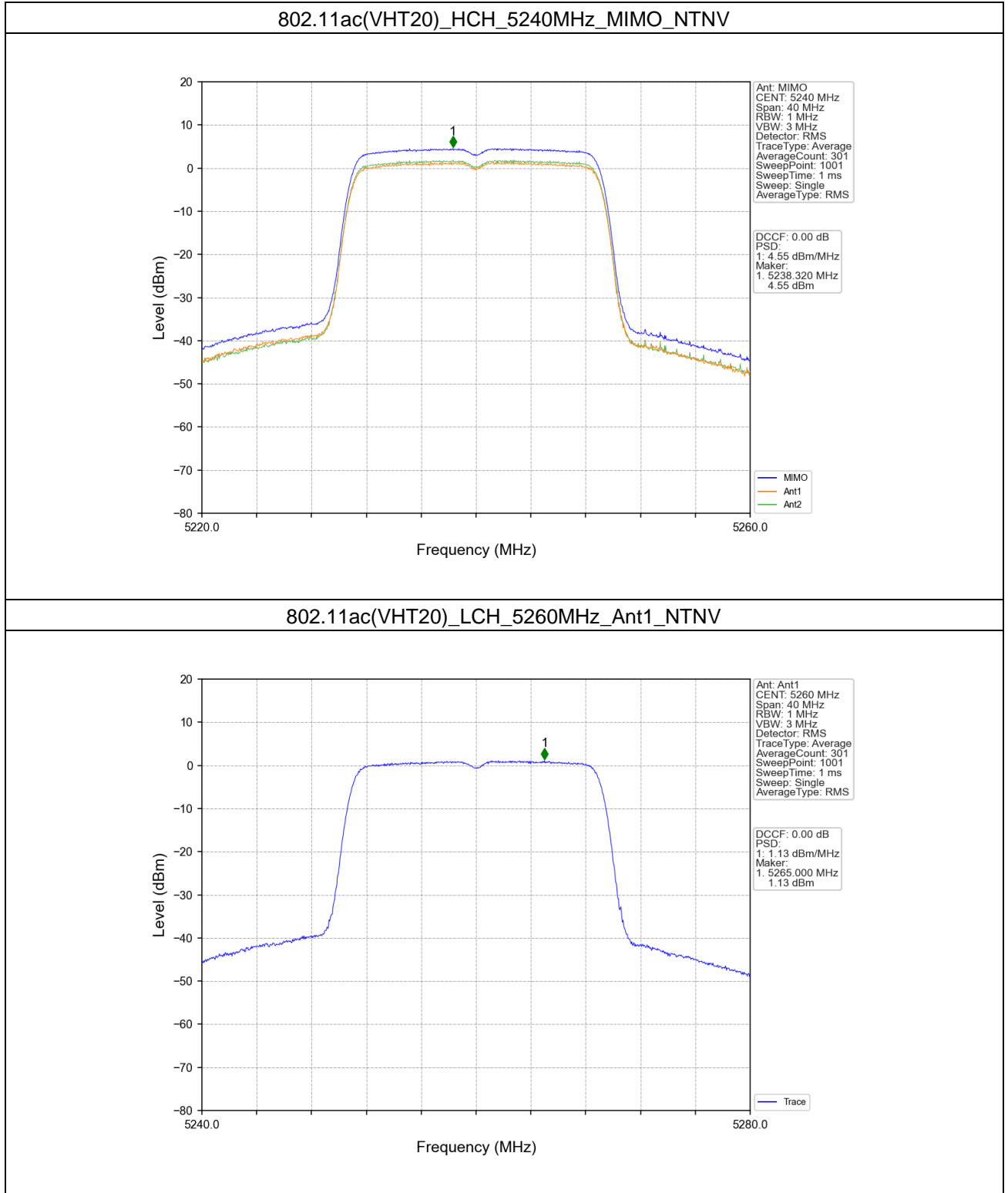
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



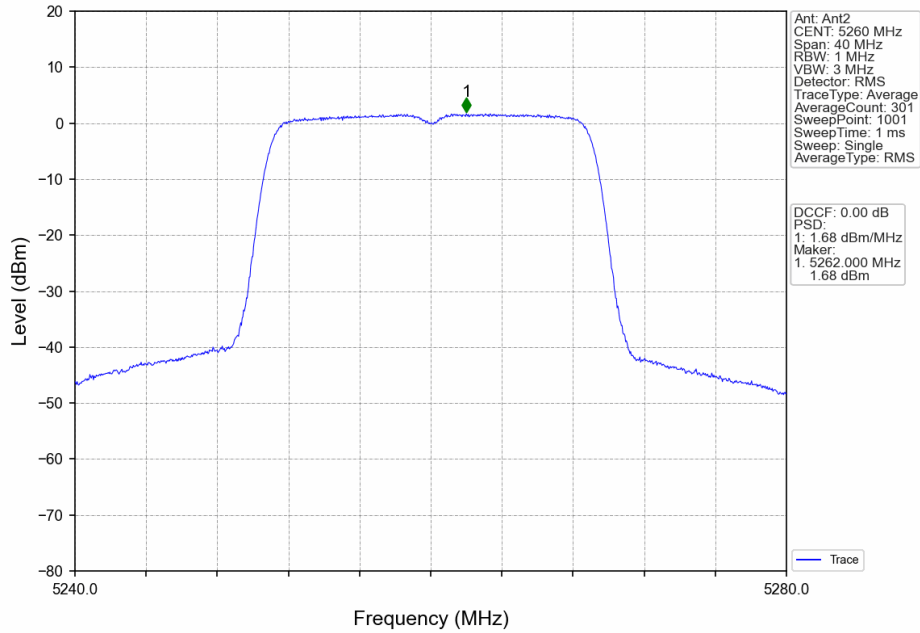
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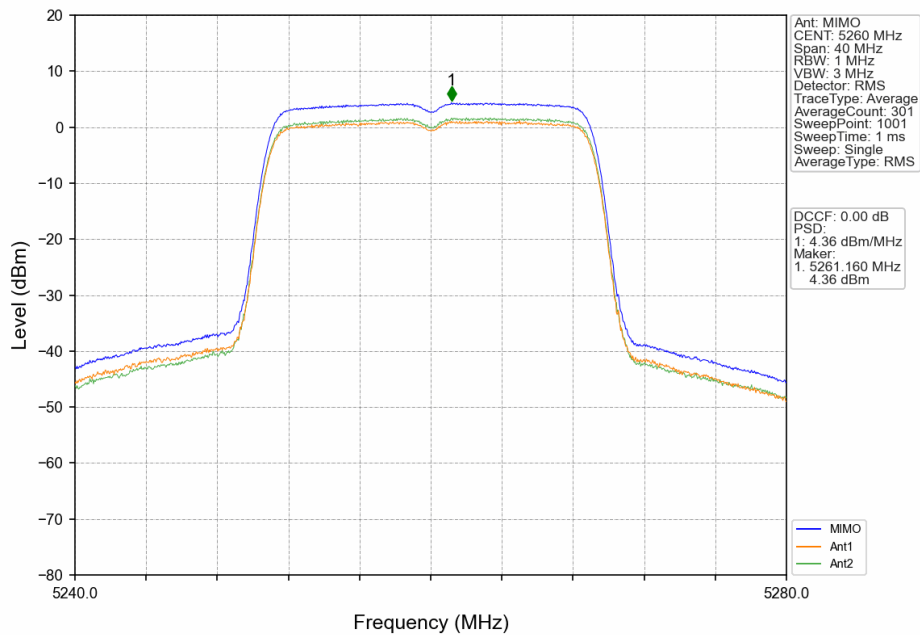
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802.11ac(VHT20)_LCH_5260MHz_Ant2_NTNV



802.11ac(VHT20)_LCH_5260MHz_MIMO_NTNV



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