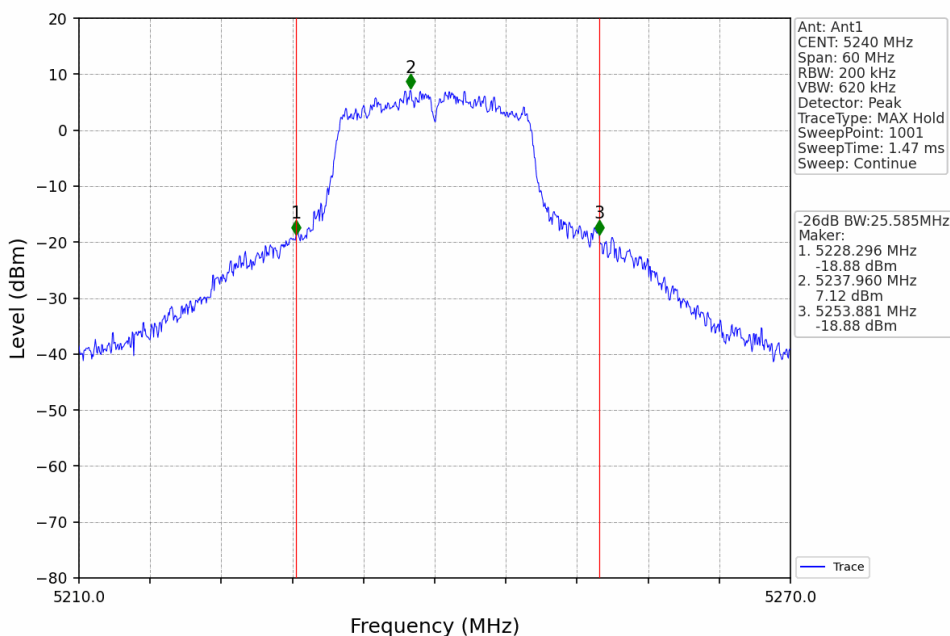
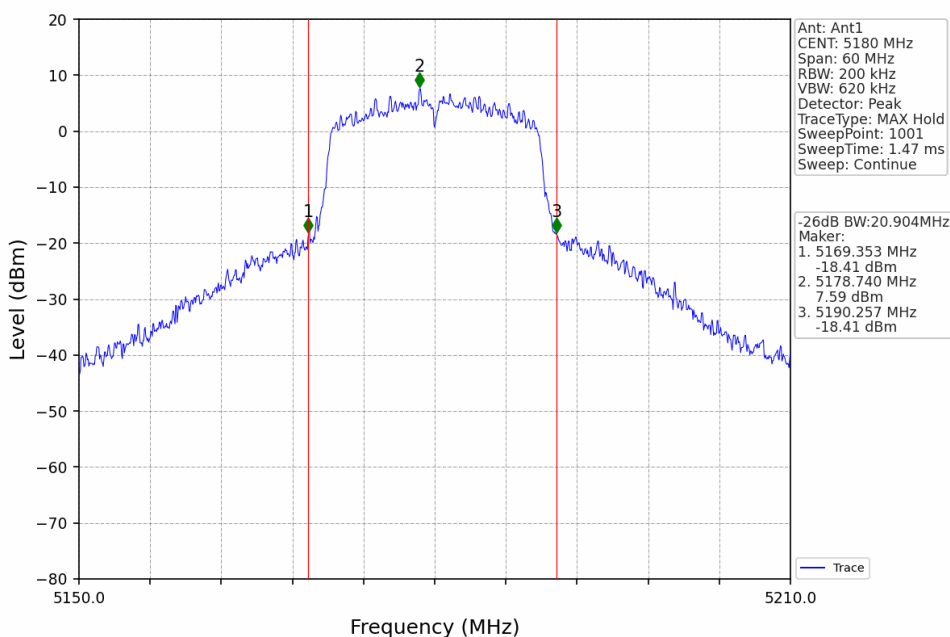


802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



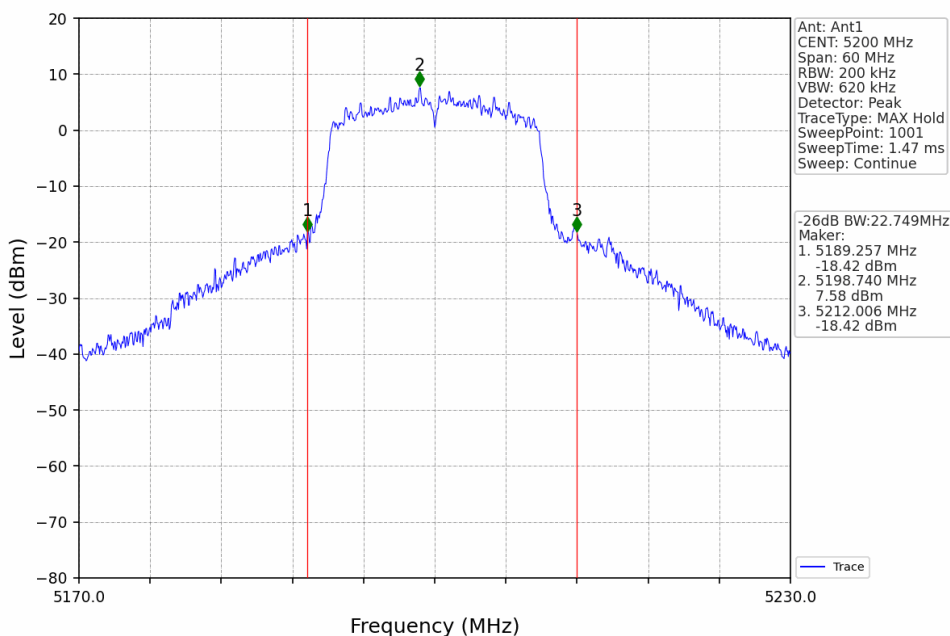
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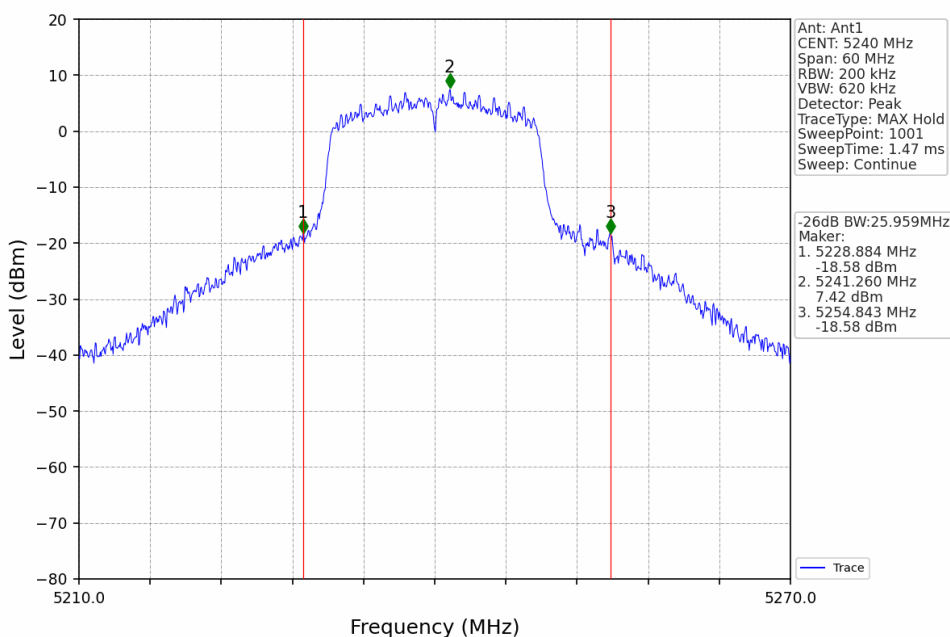
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



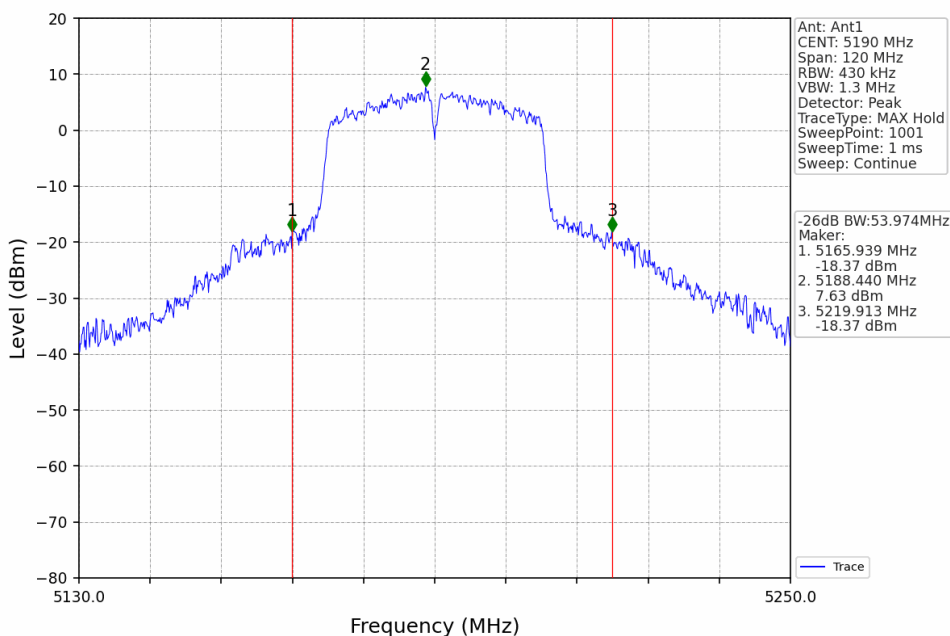
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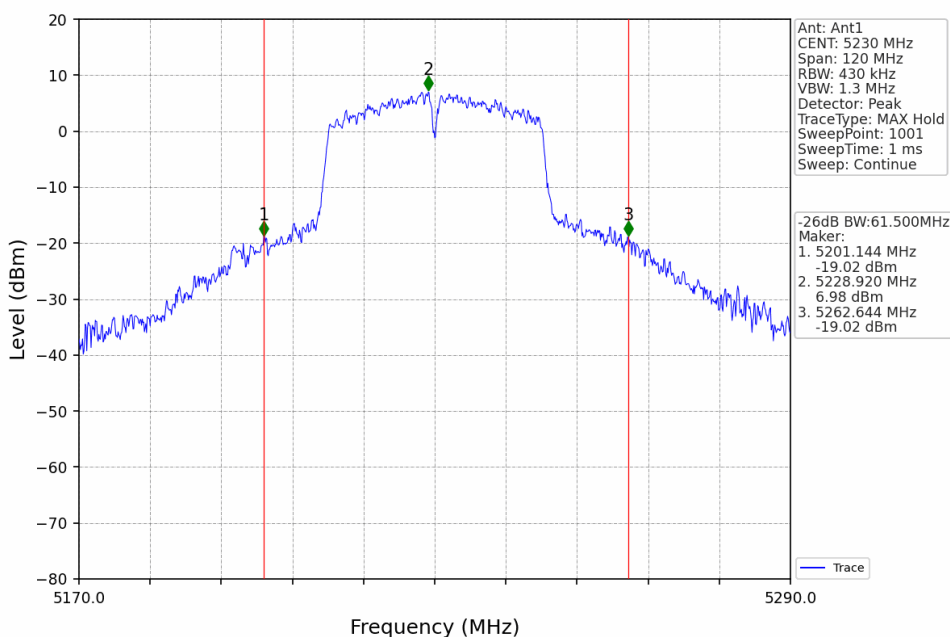
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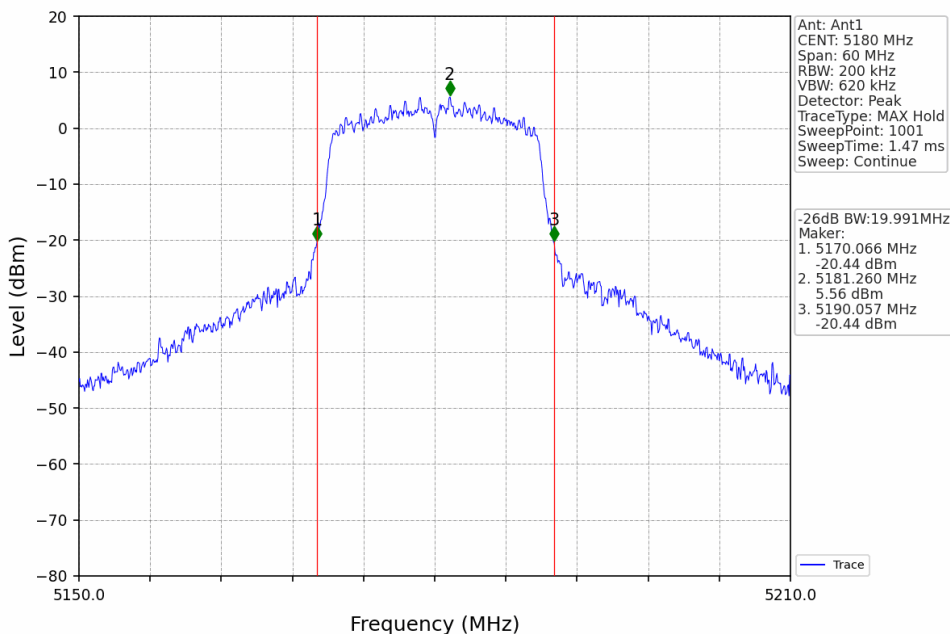
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



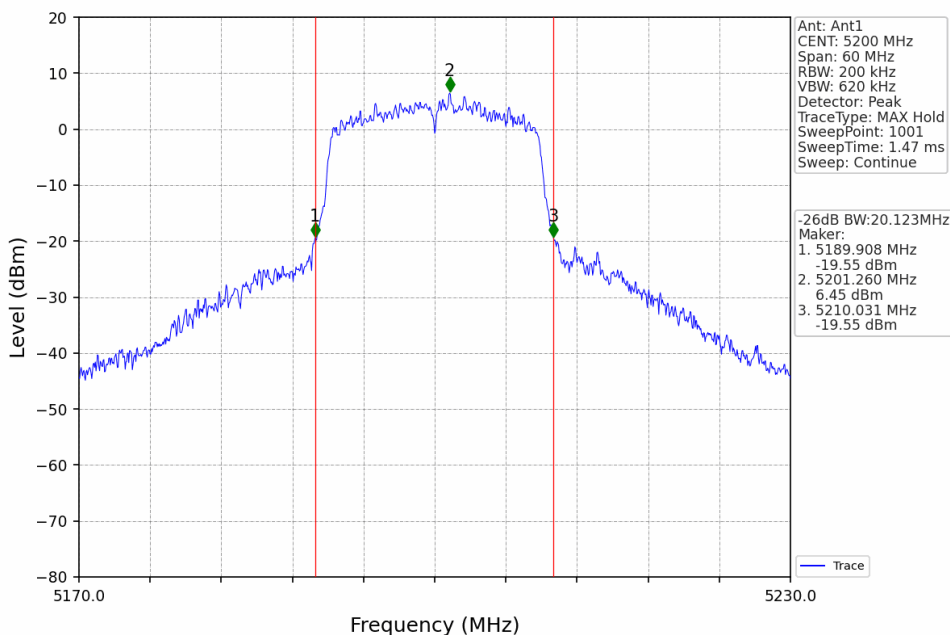
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



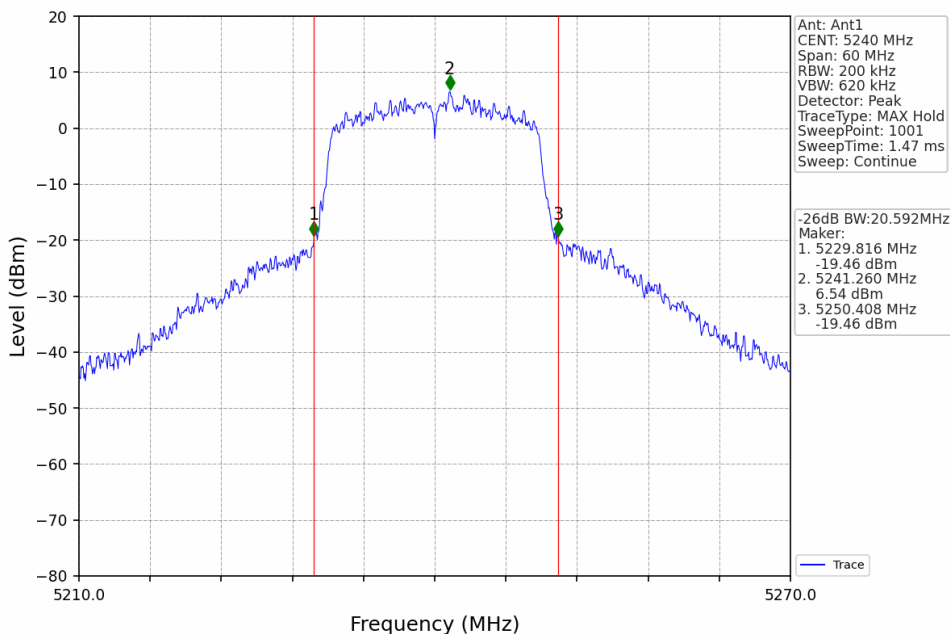
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



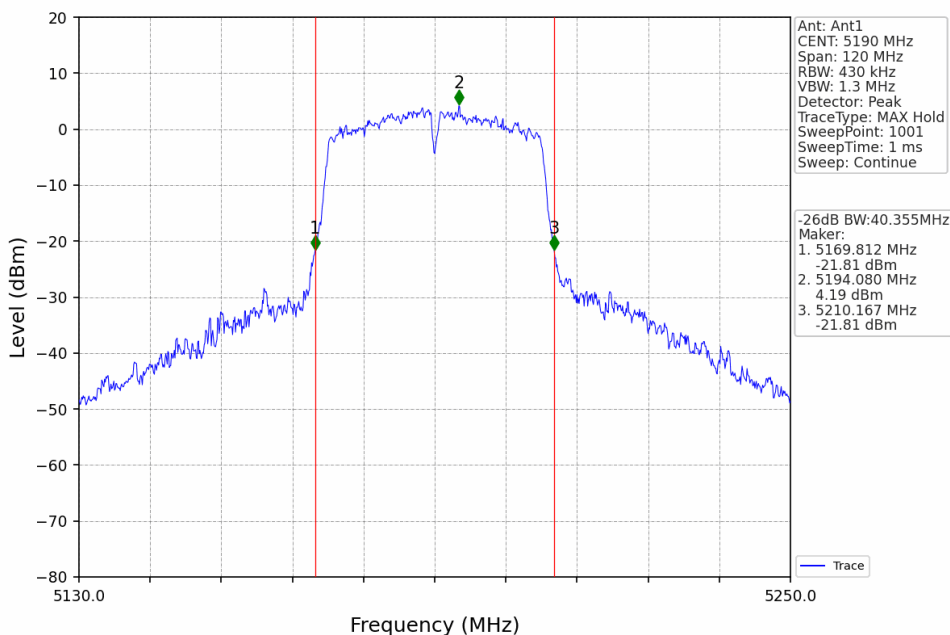
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



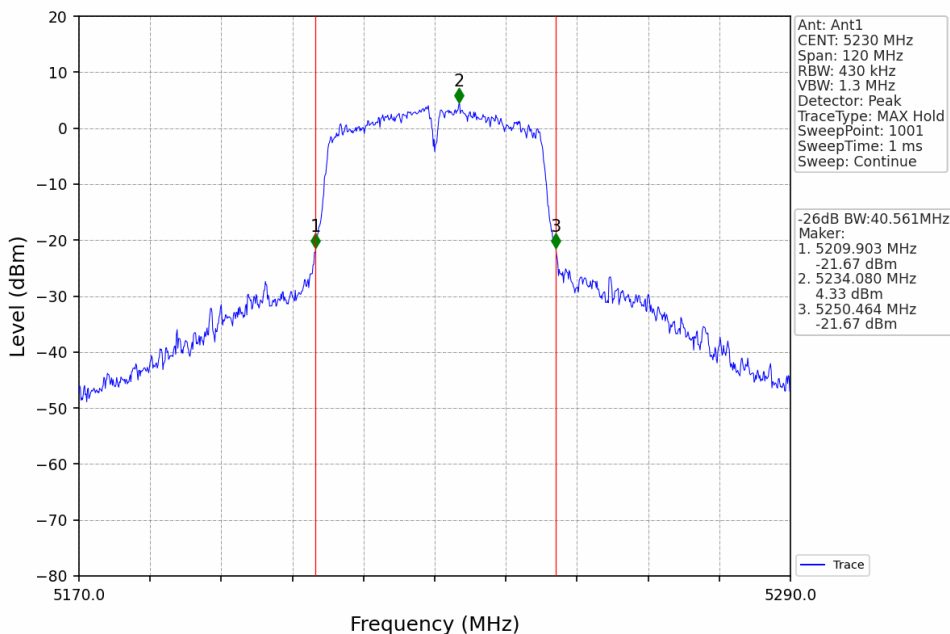
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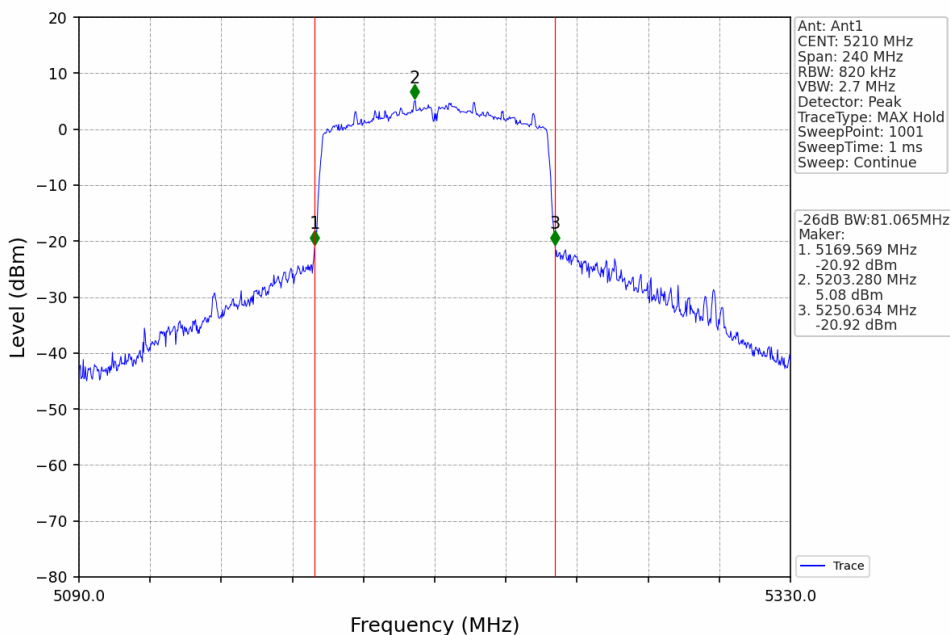
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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	Limit	
802.11a	SISO	5180	16.44	≤ 23.98	Pass
		5200	16.49	≤ 23.98	Pass
		5240	16.41	≤ 23.98	Pass
		5745	16.35	≤ 30	Pass
		5785	16.43	≤ 30	Pass
		5825	16.55	≤ 30	Pass
802.11n (HT20)	SISO	5180	16.17	≤ 23.98	Pass
		5200	16.30	≤ 23.98	Pass
		5240	16.28	≤ 23.98	Pass
		5745	16.29	≤ 30	Pass
		5785	16.36	≤ 30	Pass
		5825	16.17	≤ 30	Pass
802.11n (HT40)	SISO	5190	16.66	≤ 23.98	Pass
		5230	16.57	≤ 23.98	Pass
		5755	16.63	≤ 30	Pass
		5795	16.79	≤ 30	Pass
802.11ac (VHT20)	SISO	5180	15.35	≤ 23.98	Pass
		5200	15.20	≤ 23.98	Pass
		5240	15.24	≤ 23.98	Pass
		5745	15.31	≤ 30	Pass
		5785	15.38	≤ 30	Pass
		5825	15.47	≤ 30	Pass
802.11ac (VHT40)	SISO	5190	13.40	≤ 23.98	Pass
		5230	13.43	≤ 23.98	Pass
		5755	13.65	≤ 30	Pass
		5795	13.67	≤ 30	Pass
802.11ac (VHT80)	SISO	5210	14.12	≤ 23.98	Pass
		5775	14.73	≤ 30	Pass



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4. Maximum Power Spectral Density

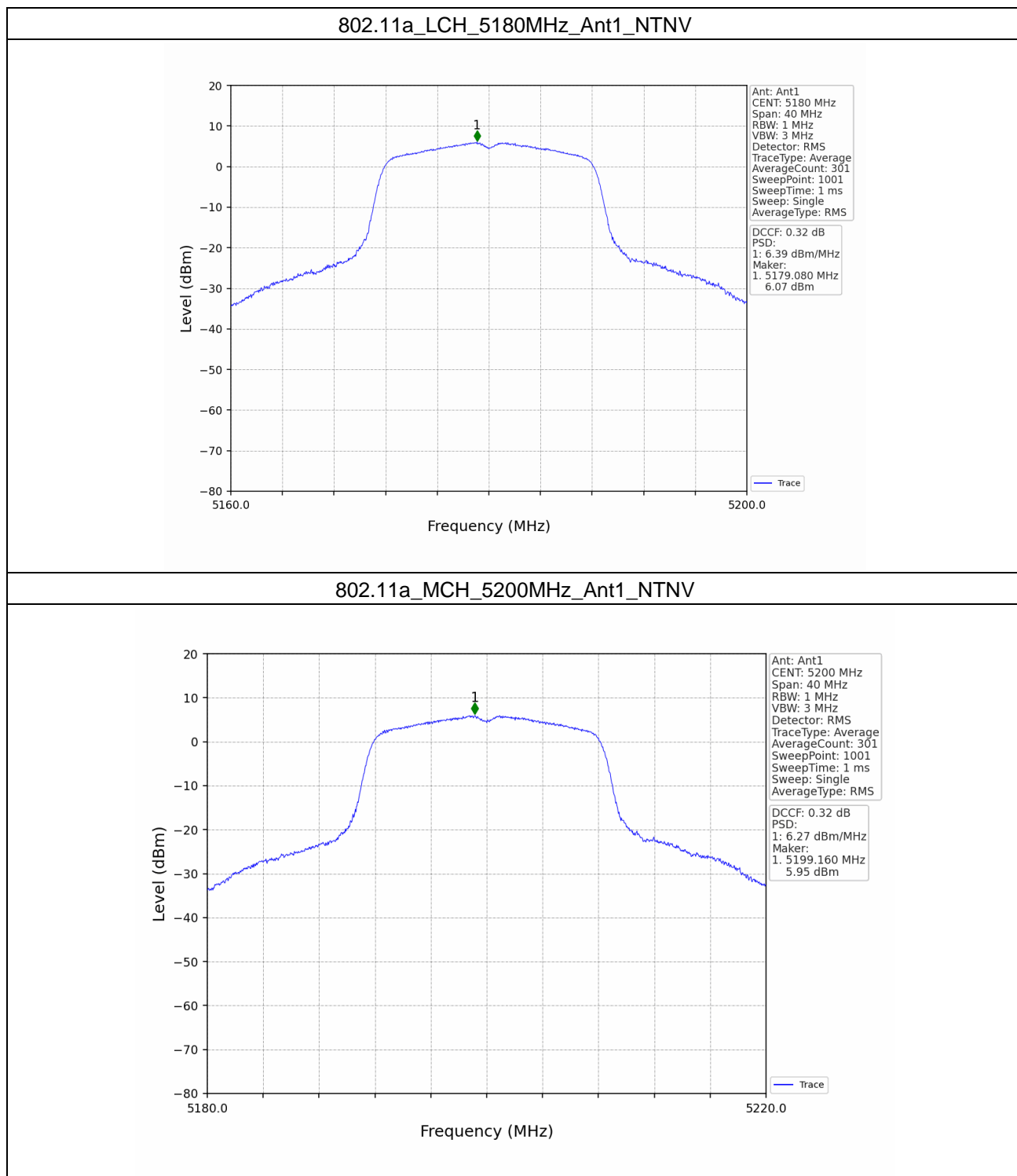
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	6.39	<=11	Pass
		5200	6.27	<=11	Pass
		5240	6.25	<=11	Pass
802.11n (HT20)	SISO	5180	5.90	<=11	Pass
		5200	6.07	<=11	Pass
		5240	6.10	<=11	Pass
802.11n (HT40)	SISO	5190	3.44	<=11	Pass
		5230	3.43	<=11	Pass
802.11ac (VHT20)	SISO	5180	5.18	<=11	Pass
		5200	5.02	<=11	Pass
		5240	5.00	<=11	Pass
802.11ac (VHT40)	SISO	5190	0.44	<=11	Pass
		5230	0.15	<=11	Pass
802.11ac (VHT80)	SISO	5210	-2.35	<=11	Pass



4.1.2 Test Graph



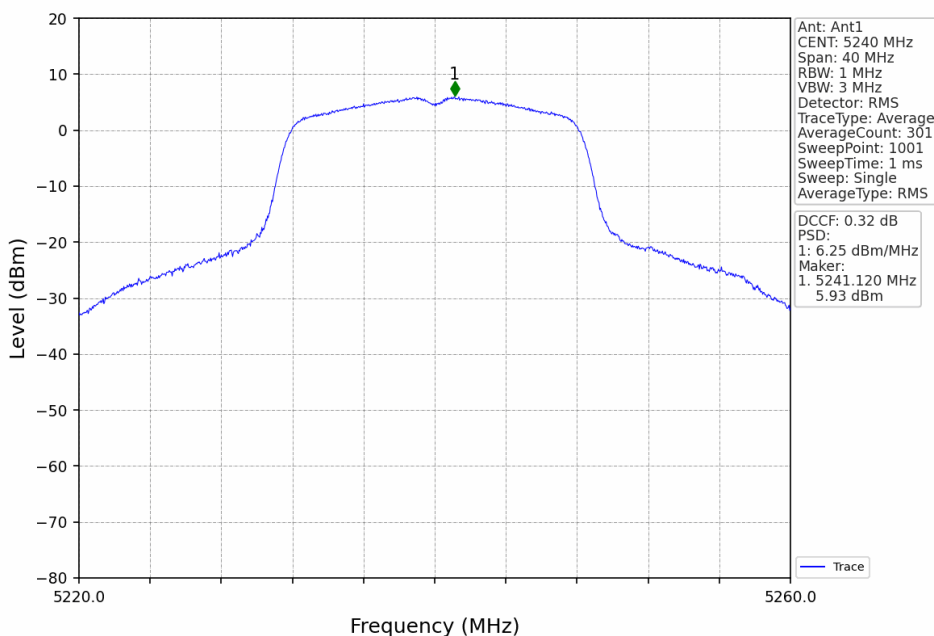
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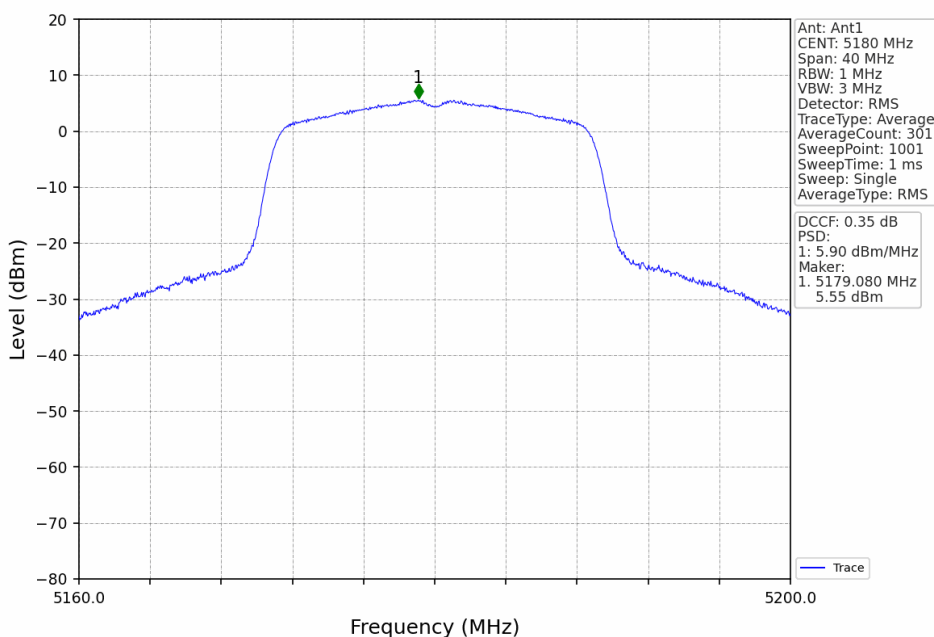
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802.11a_HCH_5240MHz_Ant1_NTNV



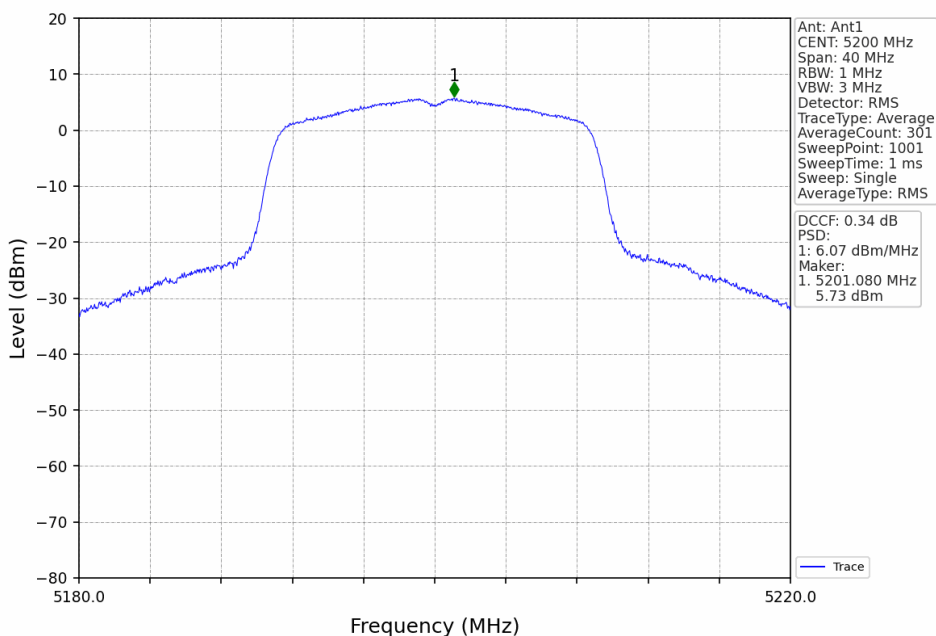
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



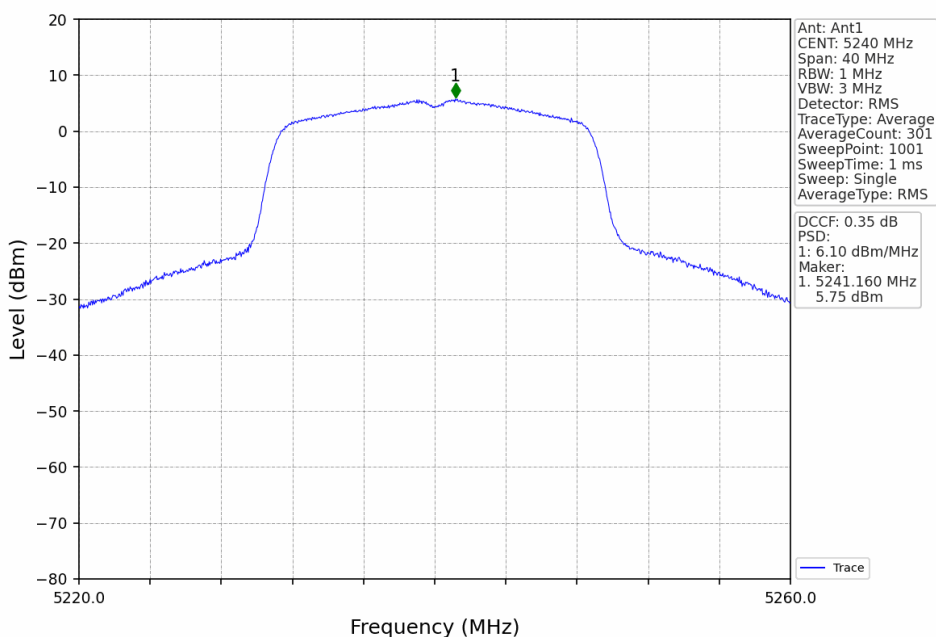
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



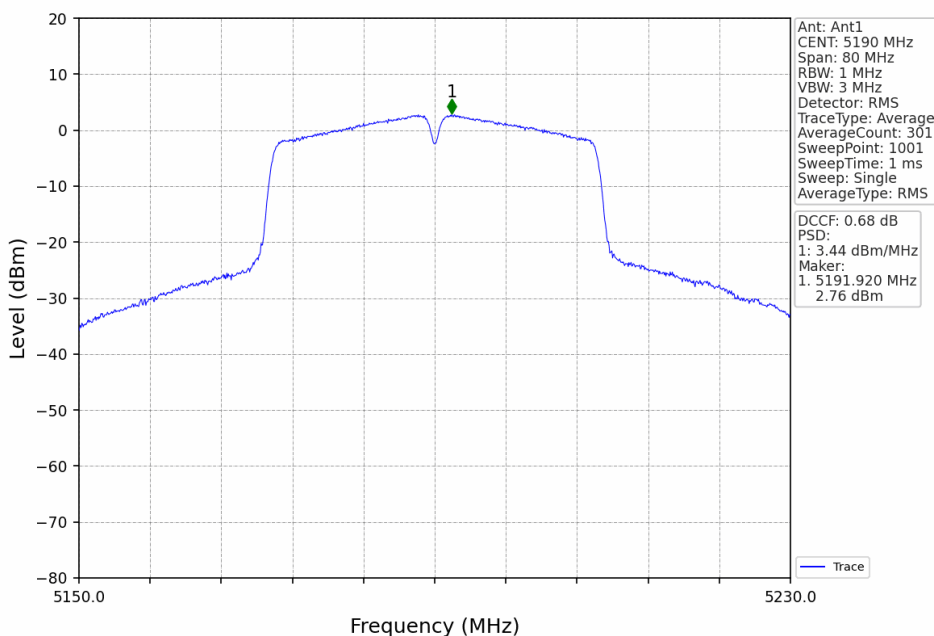
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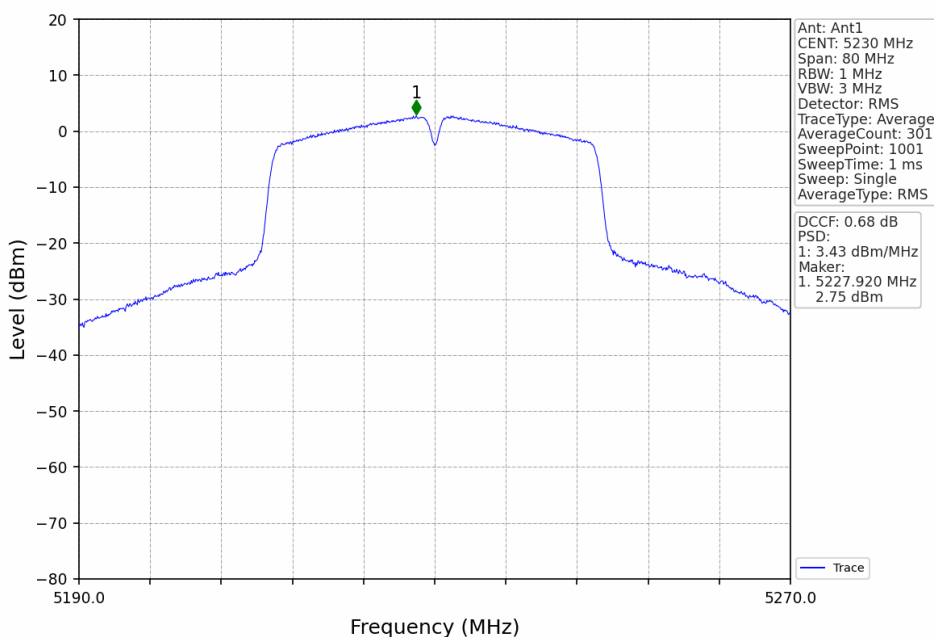
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



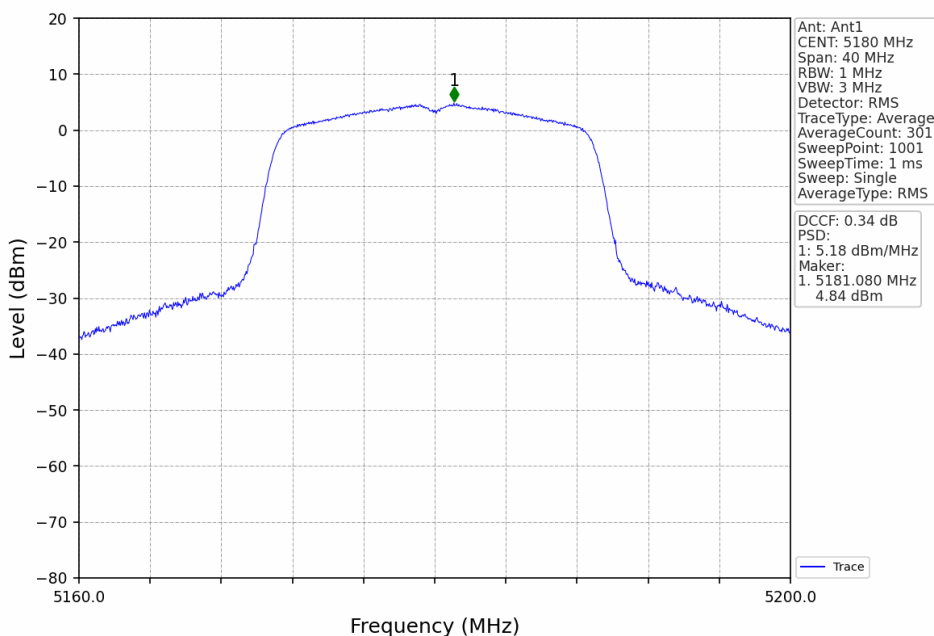
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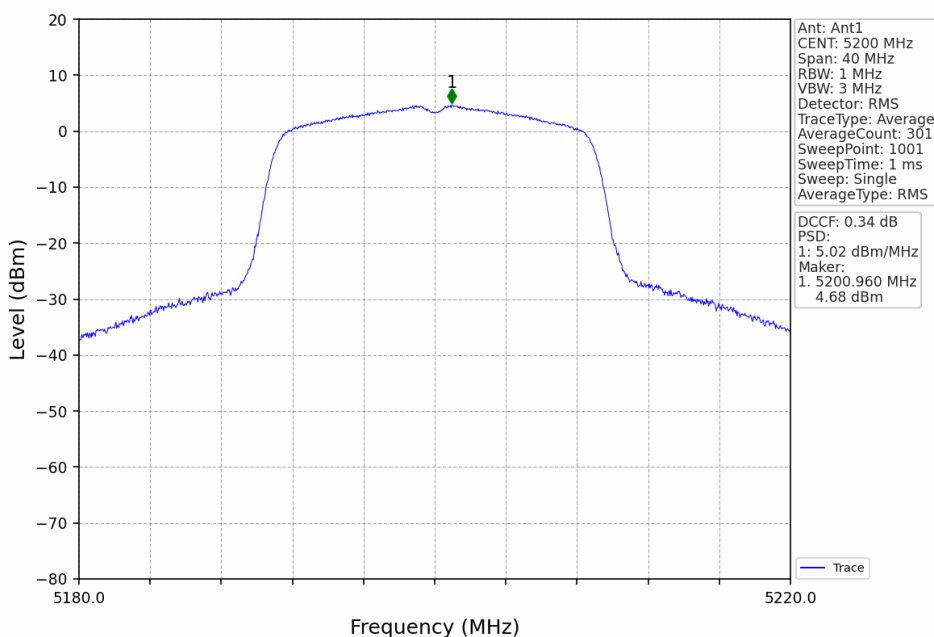
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



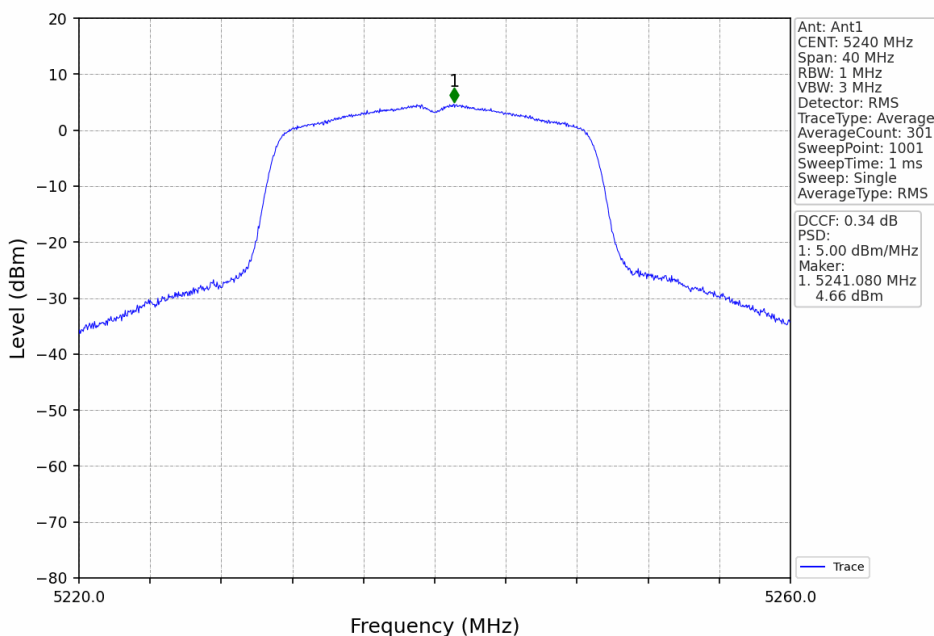
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



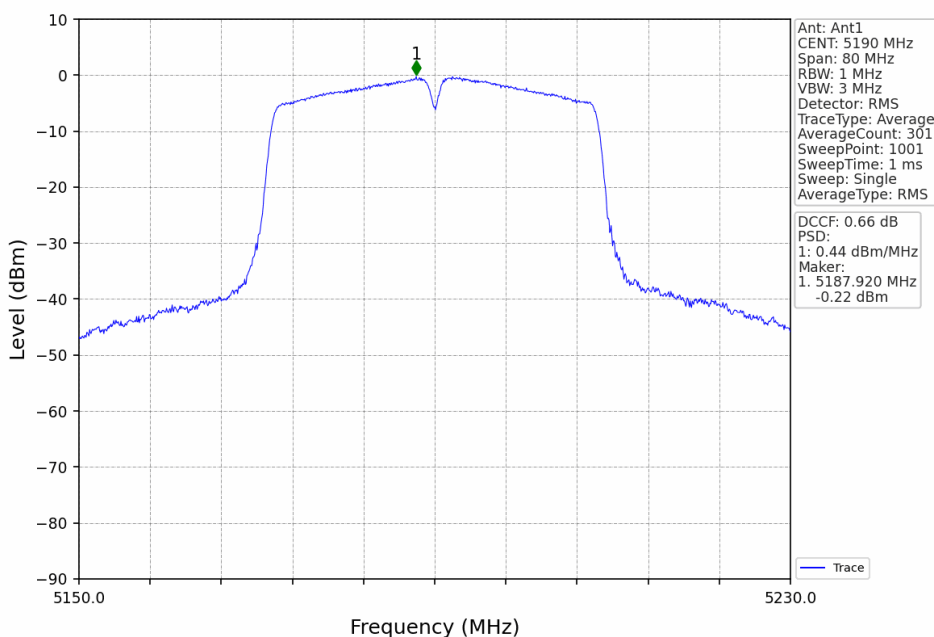
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



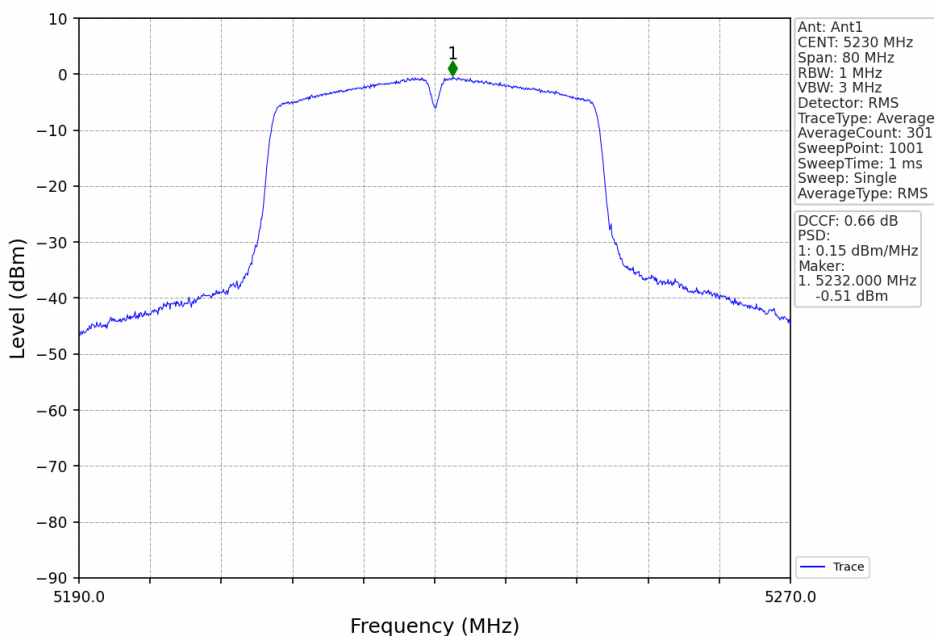
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



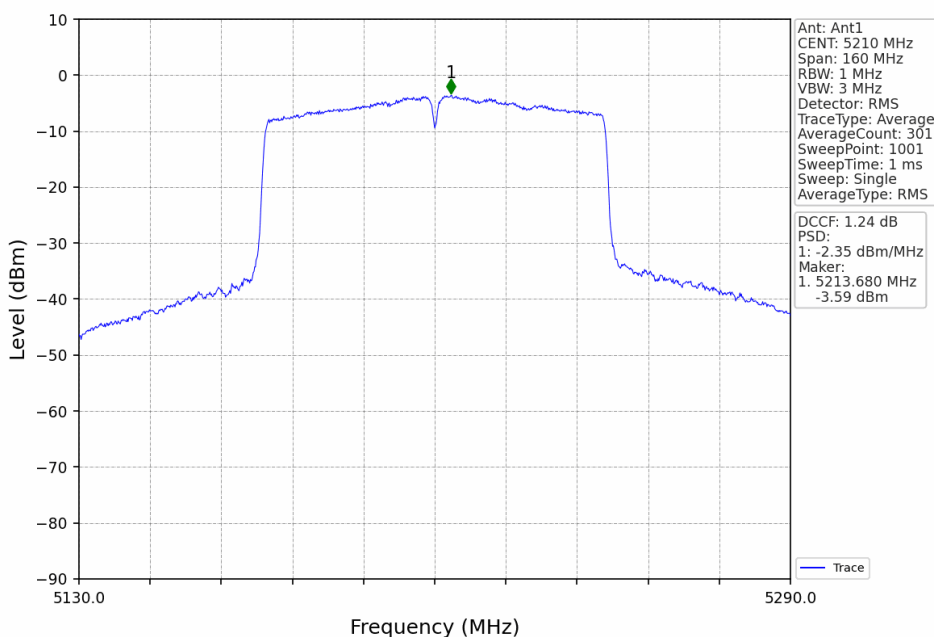
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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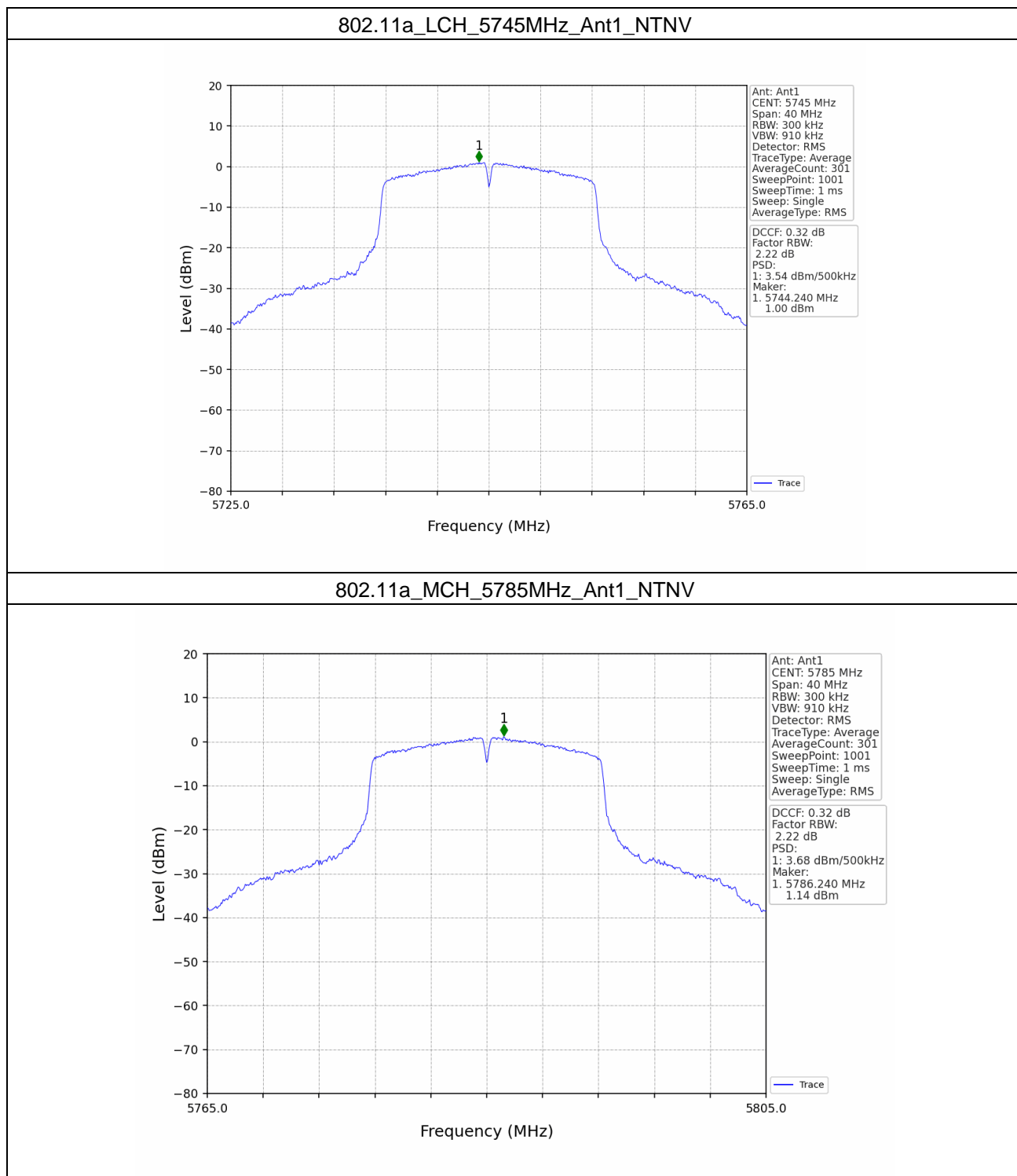
4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	3.54	<=30	Pass
		5785	3.68	<=30	Pass
		5825	3.76	<=30	Pass
802.11n (HT20)	SISO	5745	3.18	<=30	Pass
		5785	3.32	<=30	Pass
		5825	3.19	<=30	Pass
802.11n (HT40)	SISO	5755	0.75	<=30	Pass
		5795	0.75	<=30	Pass
802.11ac (VHT20)	SISO	5745	2.45	<=30	Pass
		5785	2.43	<=30	Pass
		5825	2.53	<=30	Pass
802.11ac (VHT40)	SISO	5755	-2.07	<=30	Pass
		5795	-2.42	<=30	Pass
802.11ac (VHT80)	SISO	5775	-4.43	<=30	Pass



4.2.2 Test Graph



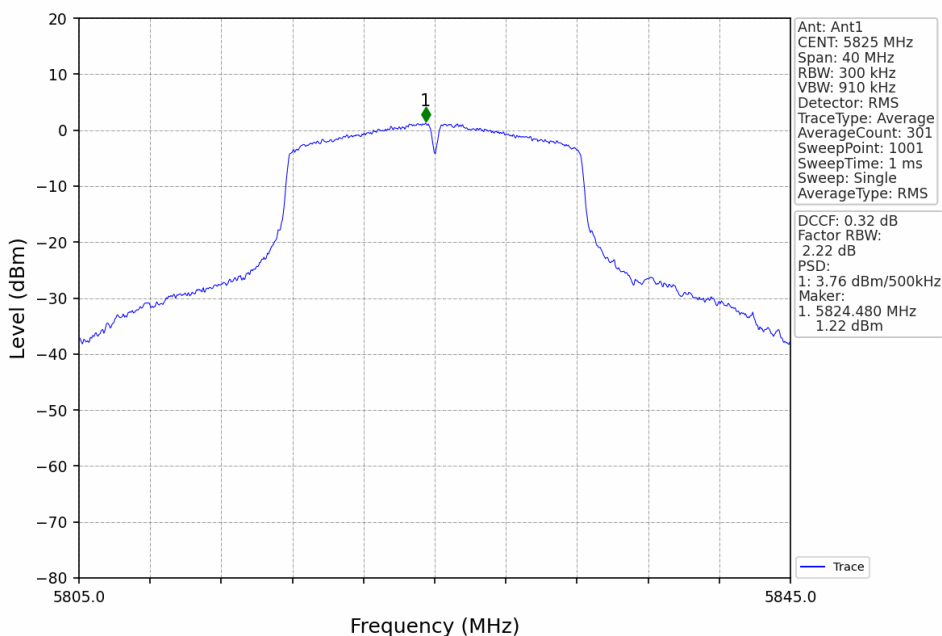
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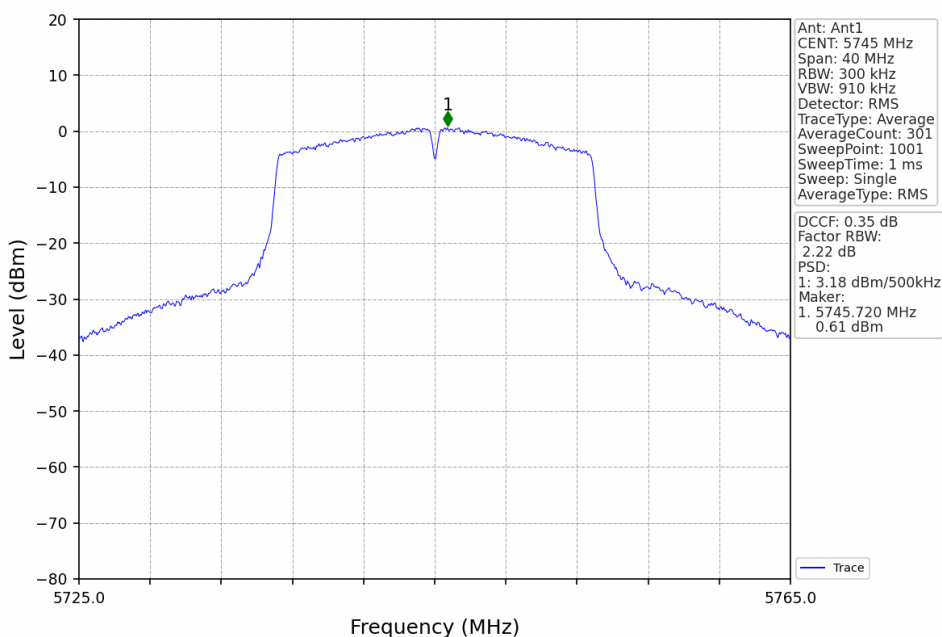
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



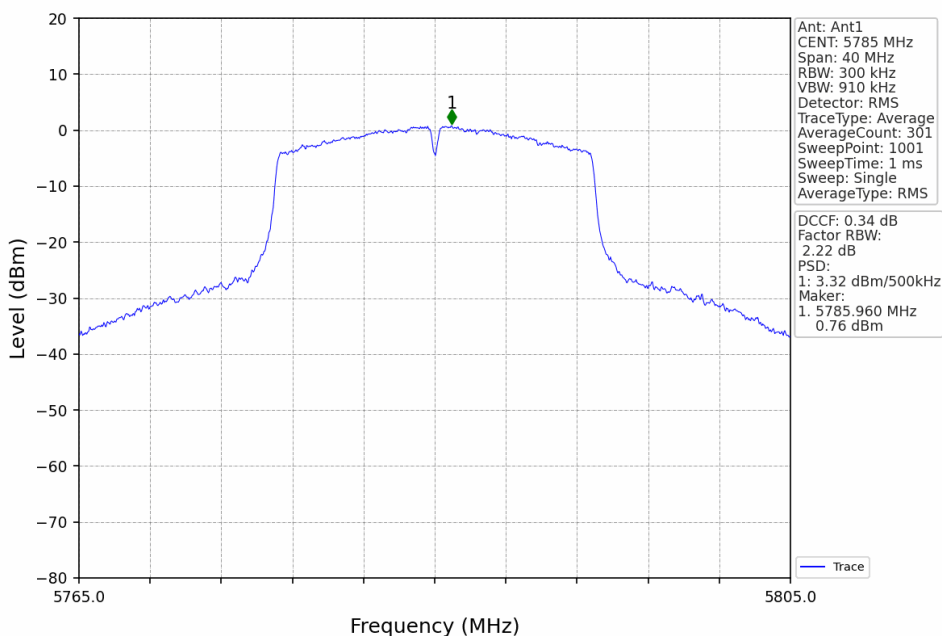
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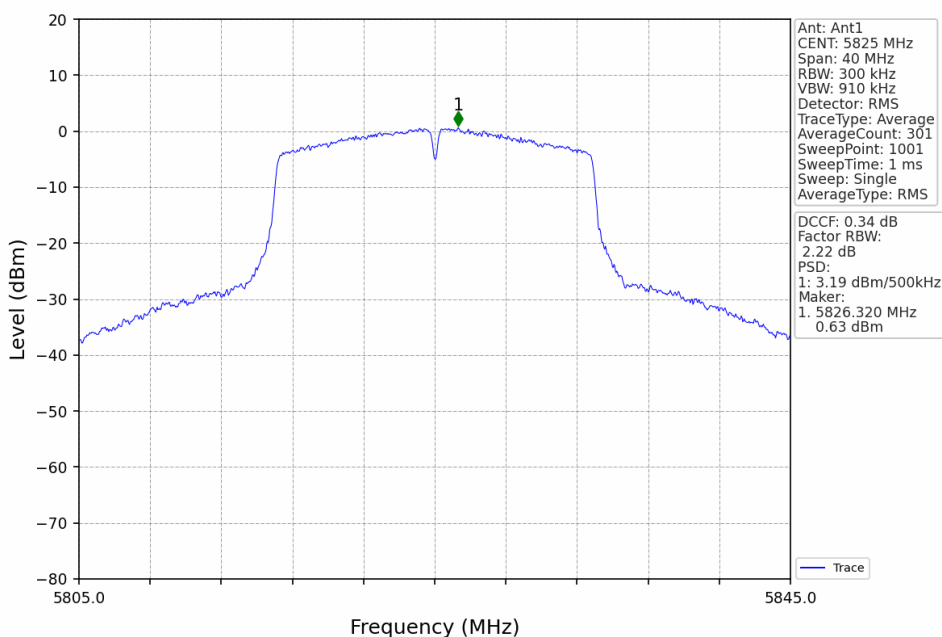
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



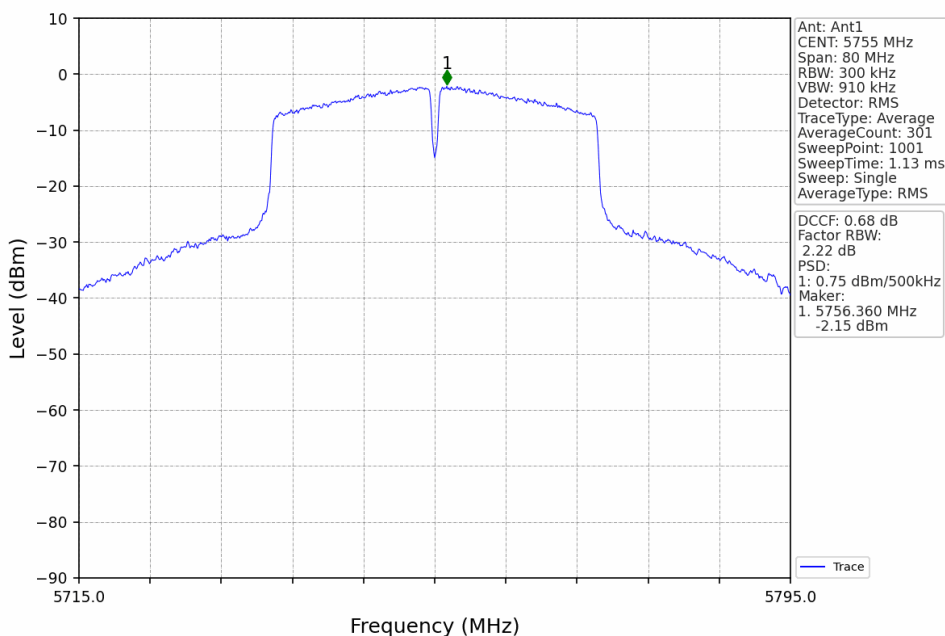
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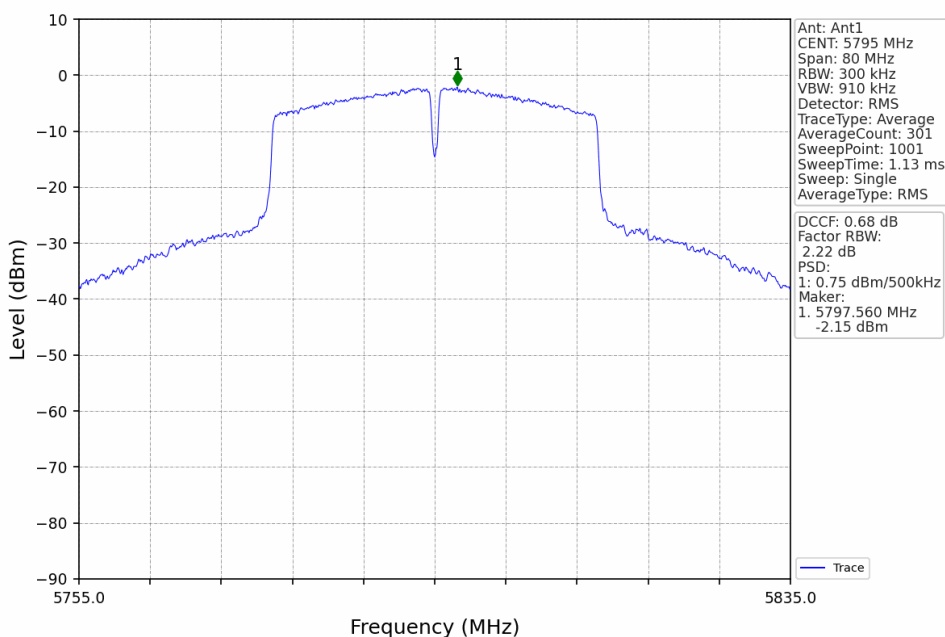
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



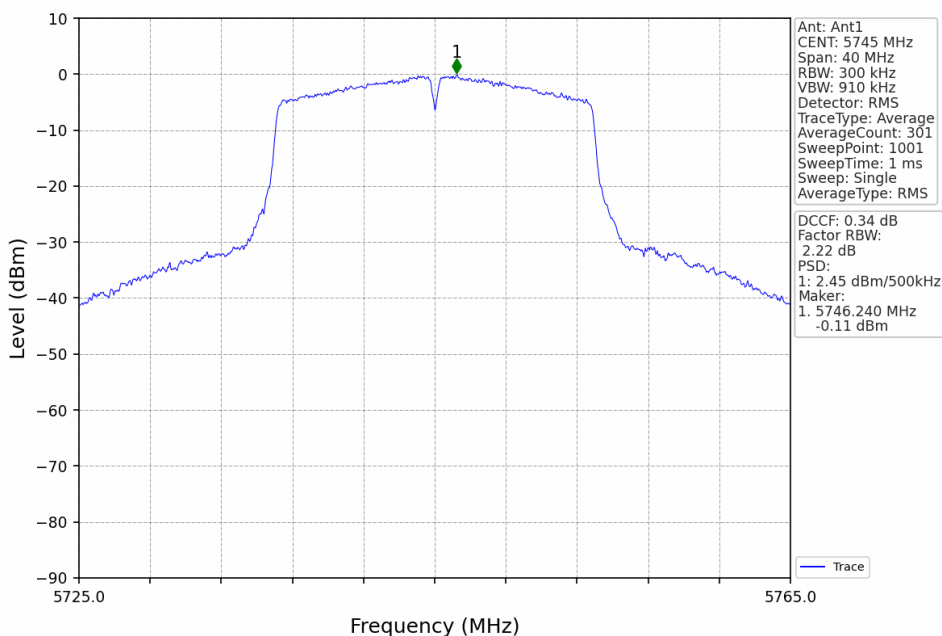
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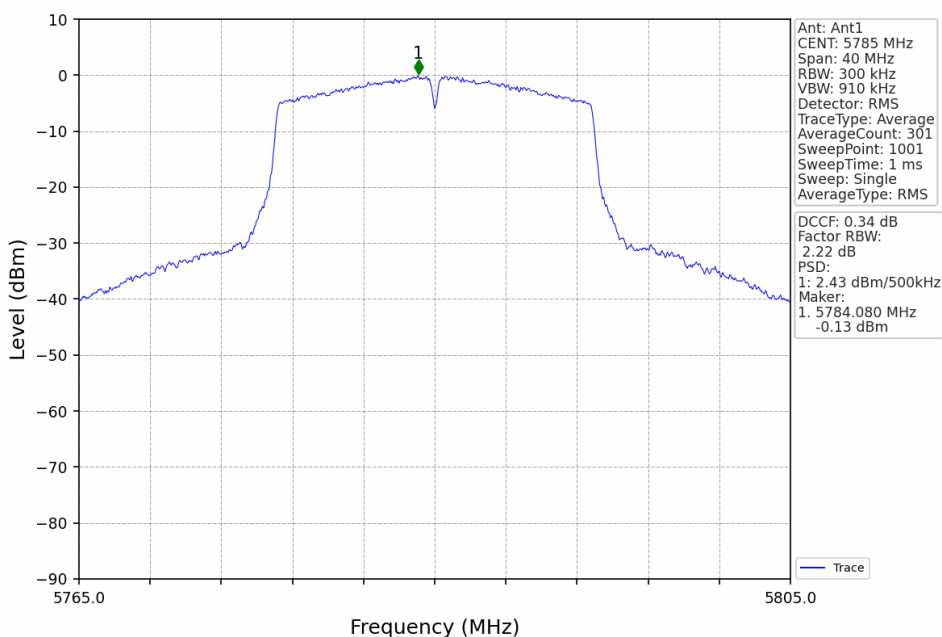
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



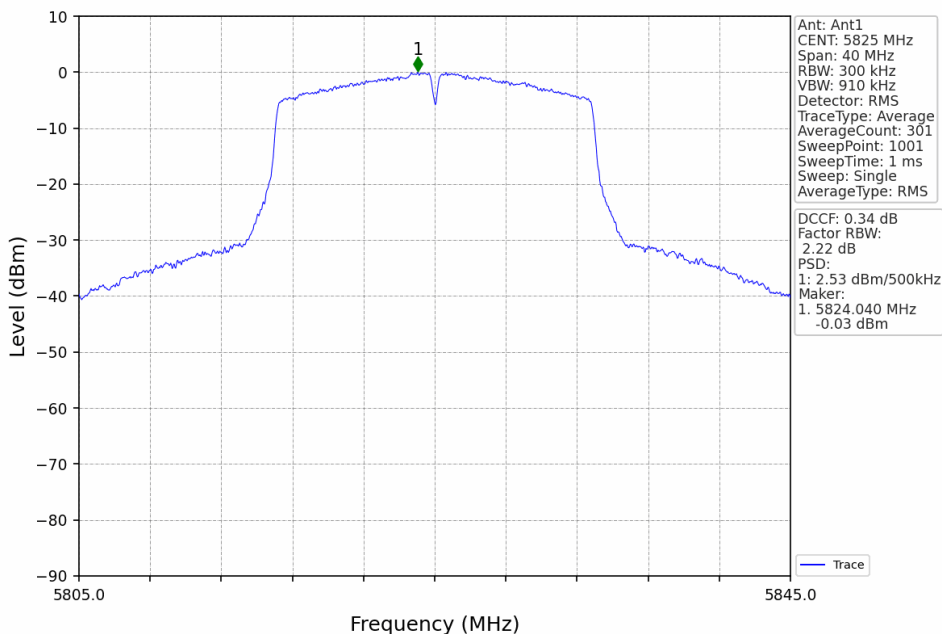
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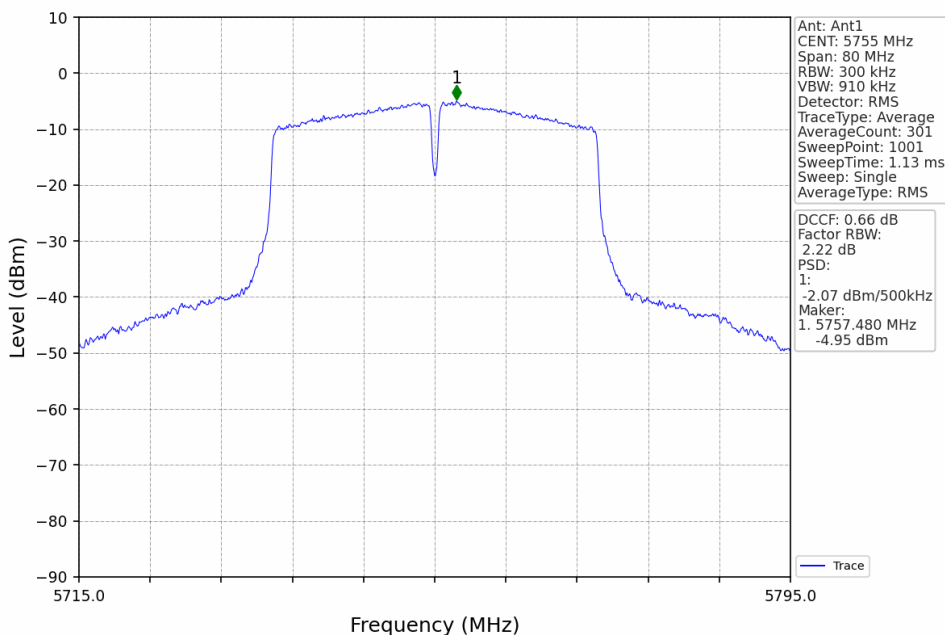
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



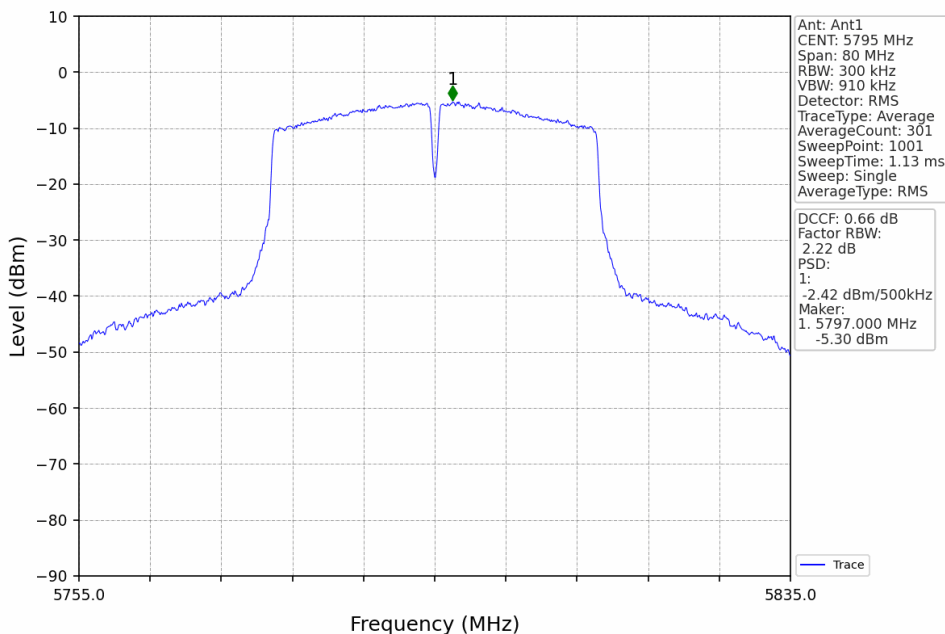
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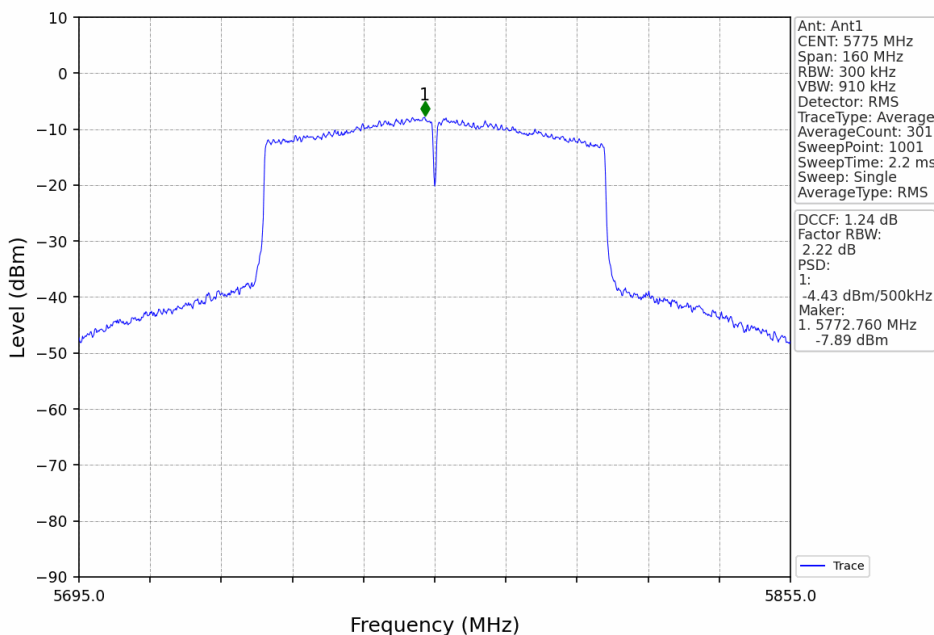
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (Vdc)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	10.2	5179.960	5150 to 5250	Pass
				12	5179.980	5150 to 5250	Pass
				13.8	5179.960	5150 to 5250	Pass
			-30	12	5180.020	5150 to 5250	Pass
			-20	12	5179.960	5150 to 5250	Pass
			-10	12	5179.920	5150 to 5250	Pass
			0	12	5180.040	5150 to 5250	Pass
			10	12	5180.020	5150 to 5250	Pass
			30	12	5179.980	5150 to 5250	Pass
			40	12	5180.040	5150 to 5250	Pass
			50	12	5180.020	5150 to 5250	Pass
		5200	20	10.2	5200.040	5150 to 5250	Pass
				12	5199.960	5150 to 5250	Pass
				13.8	5199.940	5150 to 5250	Pass
			-30	12	5199.940	5150 to 5250	Pass
			-20	12	5200.000	5150 to 5250	Pass
			-10	12	5199.940	5150 to 5250	Pass
			0	12	5199.960	5150 to 5250	Pass
			10	12	5199.960	5150 to 5250	Pass
			30	12	5199.900	5150 to 5250	Pass
			40	12	5199.940	5150 to 5250	Pass
			50	12	5200.040	5150 to 5250	Pass
		5240	20	10.2	5239.960	5150 to 5250	Pass
				12	5240.020	5150 to 5250	Pass
				13.8	5240.000	5150 to 5250	Pass
			-30	12	5240.060	5150 to 5250	Pass
			-20	12	5239.920	5150 to 5250	Pass
			-10	12	5239.940	5150 to 5250	Pass
			0	12	5239.940	5150 to 5250	Pass
			10	12	5239.920	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

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			30	12	5240.000	5150 to 5250	Pass
			40	12	5239.940	5150 to 5250	Pass
			50	12	5239.880	5150 to 5250	Pass
		5745	20	10.2	5745.020	5725 to 5850	Pass
				12	5745.000	5725 to 5850	Pass
				13.8	5744.900	5725 to 5850	Pass
			-30	12	5744.980	5725 to 5850	Pass
			-20	12	5745.040	5725 to 5850	Pass
			-10	12	5744.940	5725 to 5850	Pass
			0	12	5745.000	5725 to 5850	Pass
			10	12	5744.980	5725 to 5850	Pass
			30	12	5745.000	5725 to 5850	Pass
			40	12	5744.960	5725 to 5850	Pass
			50	12	5745.020	5725 to 5850	Pass
		5785	20	10.2	5784.980	5725 to 5850	Pass
				12	5785.040	5725 to 5850	Pass
				13.8	5784.980	5725 to 5850	Pass
			-30	12	5784.920	5725 to 5850	Pass
			-20	12	5784.980	5725 to 5850	Pass
			-10	12	5784.940	5725 to 5850	Pass
			0	12	5785.020	5725 to 5850	Pass
			10	12	5785.020	5725 to 5850	Pass
			30	12	5784.920	5725 to 5850	Pass
			40	12	5785.080	5725 to 5850	Pass
			50	12	5784.960	5725 to 5850	Pass
		5825	20	10.2	5825.020	5725 to 5850	Pass
				12	5825.020	5725 to 5850	Pass
				13.8	5824.980	5725 to 5850	Pass
			-30	12	5824.900	5725 to 5850	Pass
			-20	12	5824.960	5725 to 5850	Pass
			-10	12	5824.940	5725 to 5850	Pass
			0	12	5824.940	5725 to 5850	Pass
			10	12	5824.980	5725 to 5850	Pass
			30	12	5824.980	5725 to 5850	Pass
			40	12	5825.080	5725 to 5850	Pass
			50	12	5824.900	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	10.2	5180.000	5150 to 5250	Pass
				12	5180.000	5150 to 5250	Pass
				13.8	5180.020	5150 to 5250	Pass
			-30	12	5180.040	5150 to 5250	Pass



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			-20	12	5180.000	5150 to 5250	Pass
			-10	12	5180.020	5150 to 5250	Pass
			0	12	5180.000	5150 to 5250	Pass
			10	12	5180.000	5150 to 5250	Pass
			30	12	5180.000	5150 to 5250	Pass
			40	12	5180.020	5150 to 5250	Pass
			50	12	5180.000	5150 to 5250	Pass
		5200	20	10.2	5200.040	5150 to 5250	Pass
				12	5200.000	5150 to 5250	Pass
				13.8	5200.020	5150 to 5250	Pass
			-30	12	5200.040	5150 to 5250	Pass
			-20	12	5200.000	5150 to 5250	Pass
			-10	12	5200.020	5150 to 5250	Pass
			0	12	5200.020	5150 to 5250	Pass
			10	12	5200.020	5150 to 5250	Pass
			30	12	5200.020	5150 to 5250	Pass
			40	12	5200.000	5150 to 5250	Pass
			50	12	5200.020	5150 to 5250	Pass
		5240	20	10.2	5240.000	5150 to 5250	Pass
				12	5240.020	5150 to 5250	Pass
				13.8	5240.020	5150 to 5250	Pass
			-30	12	5240.000	5150 to 5250	Pass
			-20	12	5240.020	5150 to 5250	Pass
			-10	12	5240.000	5150 to 5250	Pass
			0	12	5240.000	5150 to 5250	Pass
			10	12	5240.020	5150 to 5250	Pass
			30	12	5240.000	5150 to 5250	Pass
			40	12	5240.000	5150 to 5250	Pass
			50	12	5240.000	5150 to 5250	Pass
		5745	20	10.2	5745.020	5725 to 5850	Pass
				12	5745.000	5725 to 5850	Pass
				13.8	5745.020	5725 to 5850	Pass
			-30	12	5745.020	5725 to 5850	Pass
			-20	12	5745.020	5725 to 5850	Pass
			-10	12	5745.020	5725 to 5850	Pass
			0	12	5745.020	5725 to 5850	Pass
			10	12	5745.020	5725 to 5850	Pass
			30	12	5745.020	5725 to 5850	Pass
			40	12	5745.020	5725 to 5850	Pass
			50	12	5744.980	5725 to 5850	Pass



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		5785	20	10.2	5785.000	5725 to 5850	Pass
				12	5785.020	5725 to 5850	Pass
				13.8	5785.000	5725 to 5850	Pass
			-30	12	5784.980	5725 to 5850	Pass
			-20	12	5785.020	5725 to 5850	Pass
			-10	12	5785.000	5725 to 5850	Pass
			0	12	5785.020	5725 to 5850	Pass
			10	12	5784.980	5725 to 5850	Pass
			30	12	5785.000	5725 to 5850	Pass
			40	12	5784.960	5725 to 5850	Pass
			50	12	5785.020	5725 to 5850	Pass
		5825	20	10.2	5825.000	5725 to 5850	Pass
				12	5825.000	5725 to 5850	Pass
				13.8	5825.000	5725 to 5850	Pass
			-30	12	5825.020	5725 to 5850	Pass
			-20	12	5825.040	5725 to 5850	Pass
			-10	12	5825.020	5725 to 5850	Pass
			0	12	5825.020	5725 to 5850	Pass
			10	12	5824.940	5725 to 5850	Pass
			30	12	5825.020	5725 to 5850	Pass
			40	12	5824.980	5725 to 5850	Pass
			50	12	5825.040	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	10.2	5190.040	5150 to 5250	Pass
				12	5190.040	5150 to 5250	Pass
				13.8	5190.040	5150 to 5250	Pass
			-30	12	5190.040	5150 to 5250	Pass
			-20	12	5190.080	5150 to 5250	Pass
			-10	12	5190.080	5150 to 5250	Pass
			0	12	5190.080	5150 to 5250	Pass
			10	12	5190.040	5150 to 5250	Pass
			30	12	5190.040	5150 to 5250	Pass
		5230	20	10.2	5230.080	5150 to 5250	Pass
				12	5230.040	5150 to 5250	Pass
				13.8	5230.080	5150 to 5250	Pass
			-30	12	5230.040	5150 to 5250	Pass
			-20	12	5230.000	5150 to 5250	Pass
			-10	12	5230.080	5150 to 5250	Pass
			0	12	5230.040	5150 to 5250	Pass



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			10	12	5230.040	5150 to 5250	Pass
			30	12	5230.080	5150 to 5250	Pass
			40	12	5230.040	5150 to 5250	Pass
			50	12	5230.040	5150 to 5250	Pass
		5755	20	10.2	5755.040	5725 to 5850	Pass
				12	5755.040	5725 to 5850	Pass
				13.8	5755.080	5725 to 5850	Pass
			-30	12	5755.040	5725 to 5850	Pass
			-20	12	5755.000	5725 to 5850	Pass
			-10	12	5755.040	5725 to 5850	Pass
			0	12	5755.040	5725 to 5850	Pass
			10	12	5755.040	5725 to 5850	Pass
			30	12	5755.000	5725 to 5850	Pass
			40	12	5755.040	5725 to 5850	Pass
			50	12	5755.080	5725 to 5850	Pass
		5795	20	10.2	5795.040	5725 to 5850	Pass
				12	5795.000	5725 to 5850	Pass
				13.8	5795.040	5725 to 5850	Pass
			-30	12	5795.000	5725 to 5850	Pass
			-20	12	5795.040	5725 to 5850	Pass
			-10	12	5795.000	5725 to 5850	Pass
			0	12	5795.040	5725 to 5850	Pass
			10	12	5795.000	5725 to 5850	Pass
			30	12	5795.000	5725 to 5850	Pass
			40	12	5795.000	5725 to 5850	Pass
			50	12	5795.040	5725 to 5850	Pass
802.11ac (VHT20)	SISO	5180	20	10.2	5180.000	5150 to 5250	Pass
				12	5180.020	5150 to 5250	Pass
				13.8	5180.020	5150 to 5250	Pass
			-30	12	5180.000	5150 to 5250	Pass
			-20	12	5180.020	5150 to 5250	Pass
			-10	12	5180.020	5150 to 5250	Pass
			0	12	5180.000	5150 to 5250	Pass
			10	12	5180.020	5150 to 5250	Pass
			30	12	5180.000	5150 to 5250	Pass
			40	12	5180.020	5150 to 5250	Pass
			50	12	5180.020	5150 to 5250	Pass
		5200	20	10.2	5200.040	5150 to 5250	Pass
				12	5200.020	5150 to 5250	Pass
				13.8	5200.020	5150 to 5250	Pass



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			-30	12	5200.020	5150 to 5250	Pass
			-20	12	5200.020	5150 to 5250	Pass
			-10	12	5200.020	5150 to 5250	Pass
			0	12	5200.040	5150 to 5250	Pass
			10	12	5200.020	5150 to 5250	Pass
			30	12	5200.020	5150 to 5250	Pass
			40	12	5200.040	5150 to 5250	Pass
			50	12	5200.020	5150 to 5250	Pass
		5240	20	10.2	5240.020	5150 to 5250	Pass
				12	5240.020	5150 to 5250	Pass
				13.8	5240.040	5150 to 5250	Pass
			-30	12	5240.000	5150 to 5250	Pass
			-20	12	5240.020	5150 to 5250	Pass
			-10	12	5240.020	5150 to 5250	Pass
			0	12	5240.020	5150 to 5250	Pass
			10	12	5240.040	5150 to 5250	Pass
			30	12	5239.980	5150 to 5250	Pass
			40	12	5240.020	5150 to 5250	Pass
			50	12	5240.020	5150 to 5250	Pass
		5745	20	10.2	5745.000	5725 to 5850	Pass
				12	5745.020	5725 to 5850	Pass
				13.8	5745.020	5725 to 5850	Pass
			-30	12	5745.000	5725 to 5850	Pass
			-20	12	5744.980	5725 to 5850	Pass
			-10	12	5745.000	5725 to 5850	Pass
			0	12	5745.000	5725 to 5850	Pass
			10	12	5745.000	5725 to 5850	Pass
			30	12	5745.020	5725 to 5850	Pass
			40	12	5745.000	5725 to 5850	Pass
			50	12	5745.000	5725 to 5850	Pass
		5785	20	10.2	5784.960	5725 to 5850	Pass
				12	5785.020	5725 to 5850	Pass
				13.8	5785.020	5725 to 5850	Pass
			-30	12	5785.020	5725 to 5850	Pass
			-20	12	5785.020	5725 to 5850	Pass
			-10	12	5785.000	5725 to 5850	Pass
			0	12	5784.980	5725 to 5850	Pass
			10	12	5785.000	5725 to 5850	Pass
			30	12	5785.040	5725 to 5850	Pass
			40	12	5785.000	5725 to 5850	Pass



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		5825	50	12	5785.000	5725 to 5850	Pass
			20	10.2	5825.020	5725 to 5850	Pass
				12	5825.020	5725 to 5850	Pass
				13.8	5824.980	5725 to 5850	Pass
			-30	12	5825.020	5725 to 5850	Pass
			-20	12	5825.040	5725 to 5850	Pass
			-10	12	5825.020	5725 to 5850	Pass
			0	12	5825.020	5725 to 5850	Pass
			10	12	5824.980	5725 to 5850	Pass
			30	12	5824.980	5725 to 5850	Pass
			40	12	5825.000	5725 to 5850	Pass
			50	12	5825.000	5725 to 5850	Pass
802.11ac (VHT40)	SISO	5190	20	10.2	5190.040	5150 to 5250	Pass
				12	5190.040	5150 to 5250	Pass
				13.8	5190.040	5150 to 5250	Pass
			-30	12	5190.080	5150 to 5250	Pass
			-20	12	5190.040	5150 to 5250	Pass
			-10	12	5190.040	5150 to 5250	Pass
			0	12	5190.040	5150 to 5250	Pass
			10	12	5190.040	5150 to 5250	Pass
			30	12	5190.040	5150 to 5250	Pass
			40	12	5190.000	5150 to 5250	Pass
			50	12	5190.040	5150 to 5250	Pass
		5230	20	10.2	5230.080	5150 to 5250	Pass
				12	5230.000	5150 to 5250	Pass
				13.8	5230.040	5150 to 5250	Pass
			-30	12	5230.080	5150 to 5250	Pass
			-20	12	5230.080	5150 to 5250	Pass
			-10	12	5230.040	5150 to 5250	Pass
			0	12	5230.040	5150 to 5250	Pass
			10	12	5230.040	5150 to 5250	Pass
			30	12	5230.120	5150 to 5250	Pass
			40	12	5230.080	5150 to 5250	Pass
			50	12	5230.120	5150 to 5250	Pass
		5755	20	10.2	5755.040	5725 to 5850	Pass
				12	5755.040	5725 to 5850	Pass
				13.8	5755.040	5725 to 5850	Pass
			-30	12	5755.040	5725 to 5850	Pass
			-20	12	5755.040	5725 to 5850	Pass
			-10	12	5755.040	5725 to 5850	Pass



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802.11ac (VHT80)	SISO		0	12	5755.040	5725 to 5850	Pass
			10	12	5755.040	5725 to 5850	Pass
			30	12	5755.000	5725 to 5850	Pass
			40	12	5755.000	5725 to 5850	Pass
			50	12	5755.040	5725 to 5850	Pass
		5795	20	10.2	5795.040	5725 to 5850	Pass
				12	5795.040	5725 to 5850	Pass
				13.8	5795.040	5725 to 5850	Pass
			-30	12	5795.040	5725 to 5850	Pass
			-20	12	5795.040	5725 to 5850	Pass
			-10	12	5795.040	5725 to 5850	Pass
			0	12	5795.040	5725 to 5850	Pass
			10	12	5795.000	5725 to 5850	Pass
			30	12	5795.040	5725 to 5850	Pass
			40	12	5795.040	5725 to 5850	Pass
			50	12	5795.000	5725 to 5850	Pass
		5210	20	10.2	5210.075	5150 to 5250	Pass
				12	5210.075	5150 to 5250	Pass
				13.8	5210.075	5150 to 5250	Pass
			-30	12	5210.075	5150 to 5250	Pass
			-20	12	5210.075	5150 to 5250	Pass
			-10	12	5210.075	5150 to 5250	Pass
			0	12	5210.150	5150 to 5250	Pass
			10	12	5210.075	5150 to 5250	Pass
			30	12	5210.075	5150 to 5250	Pass
			40	12	5210.075	5150 to 5250	Pass
			50	12	5210.075	5150 to 5250	Pass
		5775	20	10.2	5775.075	5725 to 5850	Pass
				12	5775.075	5725 to 5850	Pass
				13.8	5775.000	5725 to 5850	Pass
			-30	12	5775.075	5725 to 5850	Pass
			-20	12	5775.000	5725 to 5850	Pass
			-10	12	5775.000	5725 to 5850	Pass
			0	12	5775.075	5725 to 5850	Pass
			10	12	5775.075	5725 to 5850	Pass
			30	12	5775.000	5725 to 5850	Pass
			40	12	5775.000	5725 to 5850	Pass
			50	12	5775.000	5725 to 5850	Pass

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