

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.758	/	Pass
		5200	1	16.854	/	Pass
		5240	1	16.626	/	Pass
		5745	1	16.750	/	Pass
		5785	1	16.689	/	Pass
		5825	1	16.697	/	Pass
802.11n (HT20)	SISO	5180	1	17.997	/	Pass
		5200	1	18.108	/	Pass
		5240	1	17.783	/	Pass
		5745	1	17.946	/	Pass
		5785	1	17.950	/	Pass
		5825	1	17.922	/	Pass
802.11n (HT40)	SISO	5190	1	36.885	/	Pass
		5230	1	36.881	/	Pass
		5755	1	37.167	/	Pass
		5795	1	37.016	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	36.193	/	Pass
		5200	1	35.876	/	Pass
		5240	1	25.804	/	Pass
802.11n (HT20)	SISO	5180	1	37.058	/	Pass
		5200	1	36.186	/	Pass
		5240	1	26.773	/	Pass
802.11n (HT40)	SISO	5190	1	48.360	/	Pass
		5230	1	56.432	/	Pass

2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.371	≥ 0.5	Pass
		5785	1	16.415	≥ 0.5	Pass
		5825	1	16.368	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.659	≥ 0.5	Pass
		5785	1	17.704	≥ 0.5	Pass
		5825	1	17.627	≥ 0.5	Pass
802.11n	SISO	5755	1	36.374	≥ 0.5	Pass

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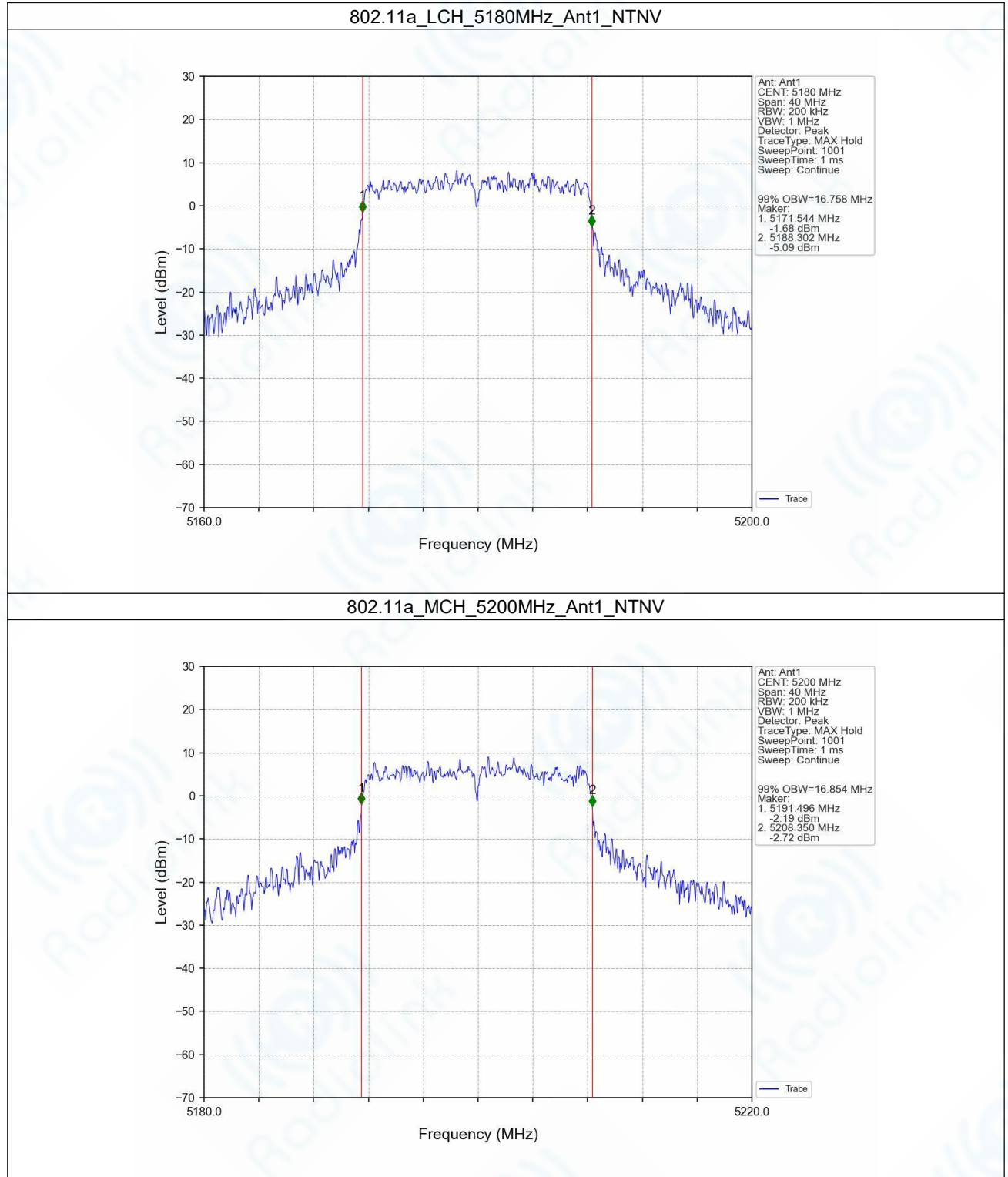
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(HT40)		5795	1	36.369	≥ 0.5	Pass
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2.2 Test Graph

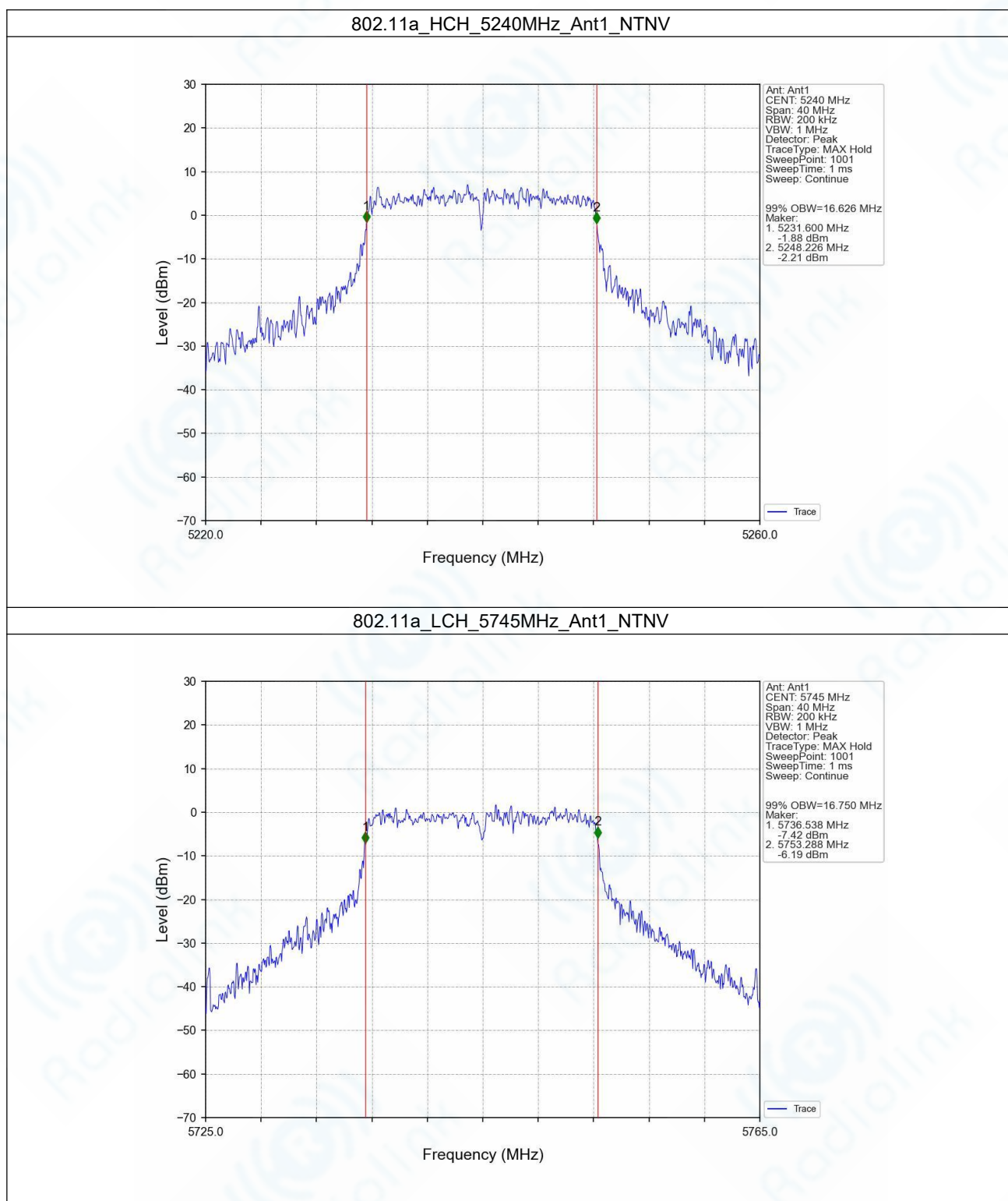
2.2.1 OBW



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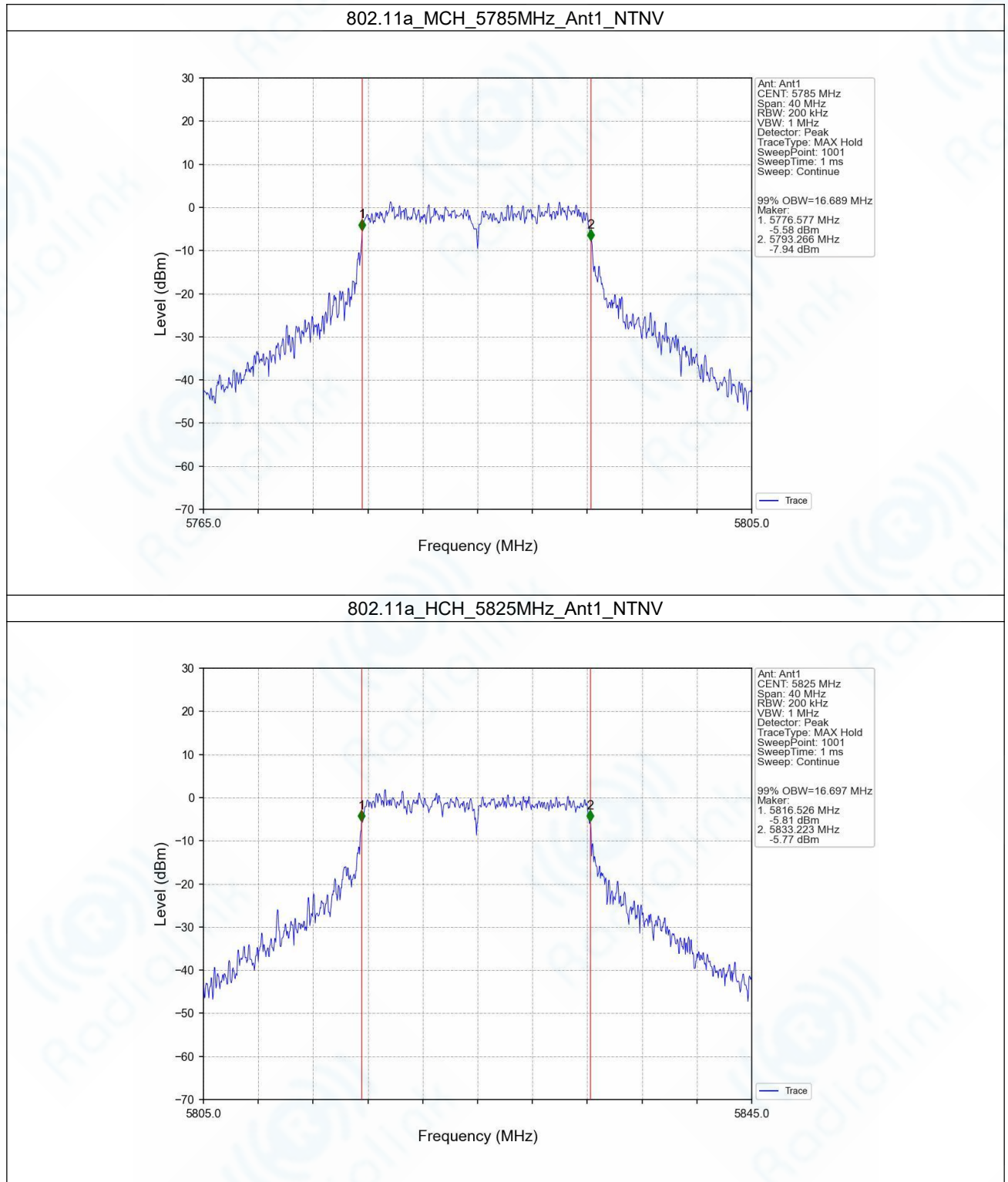
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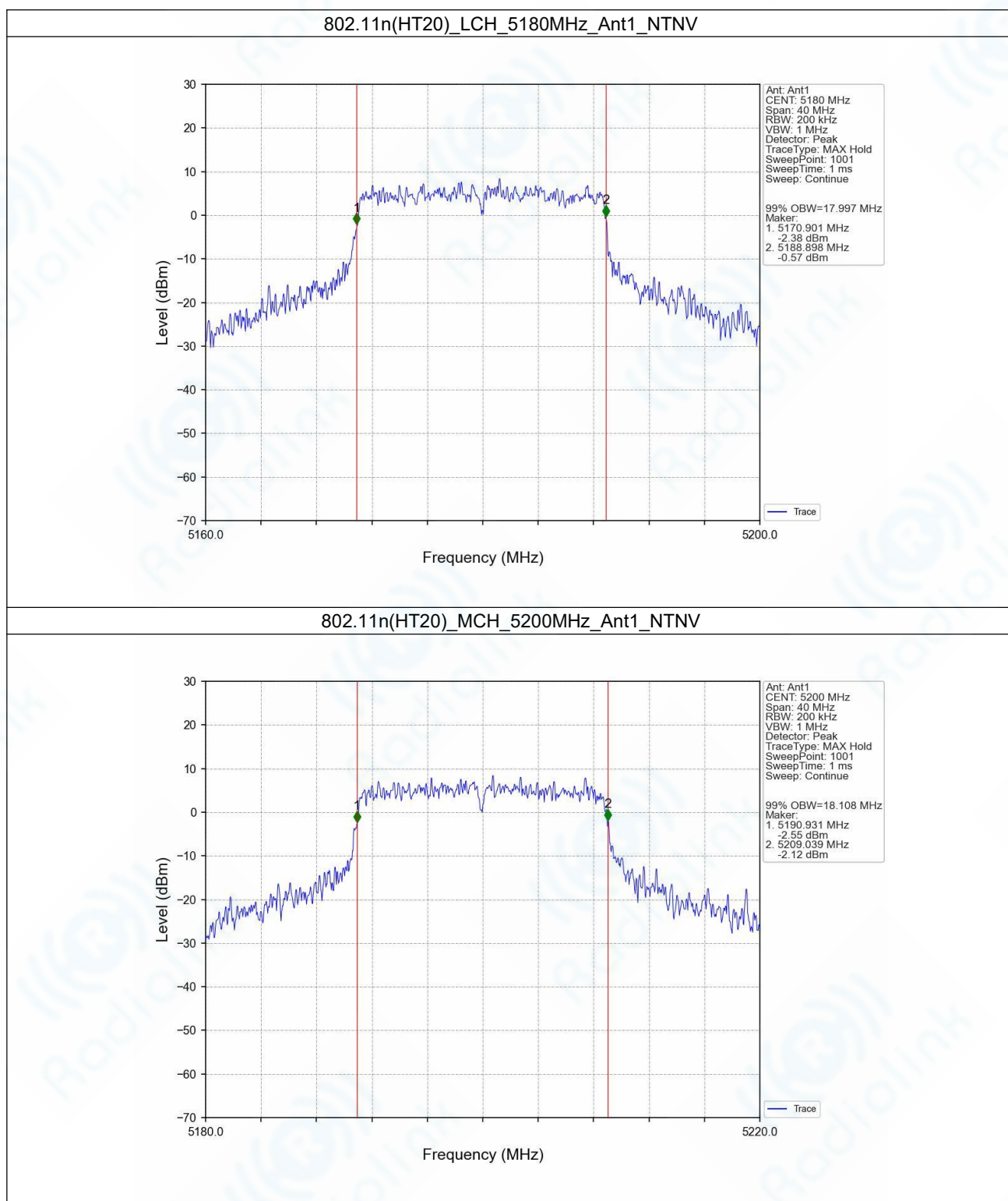
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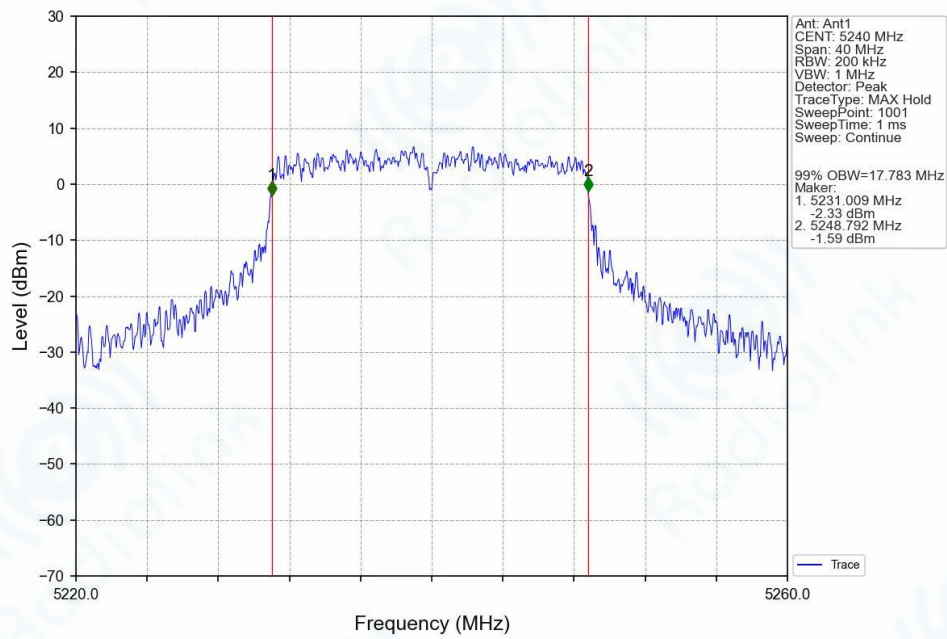
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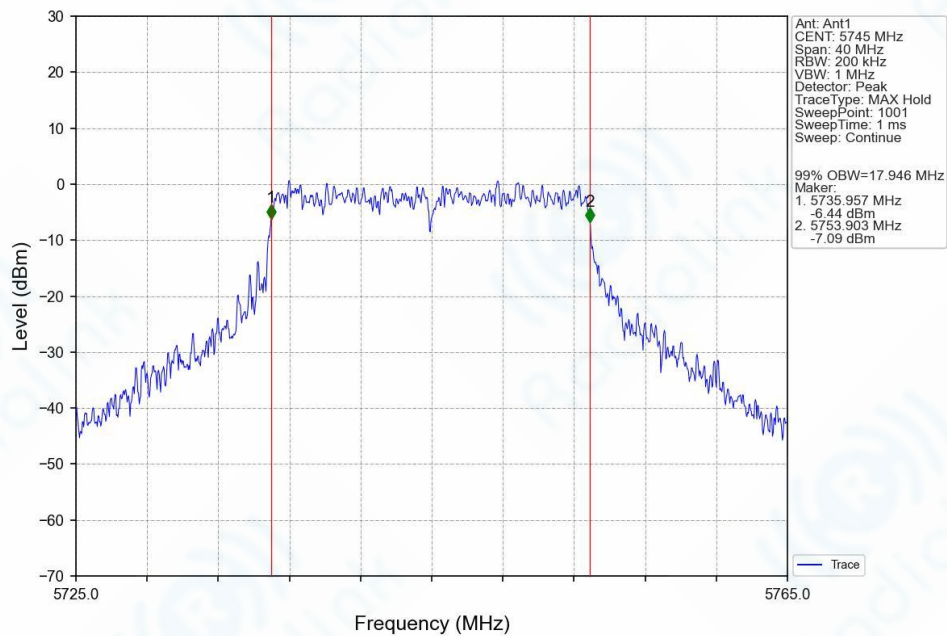
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



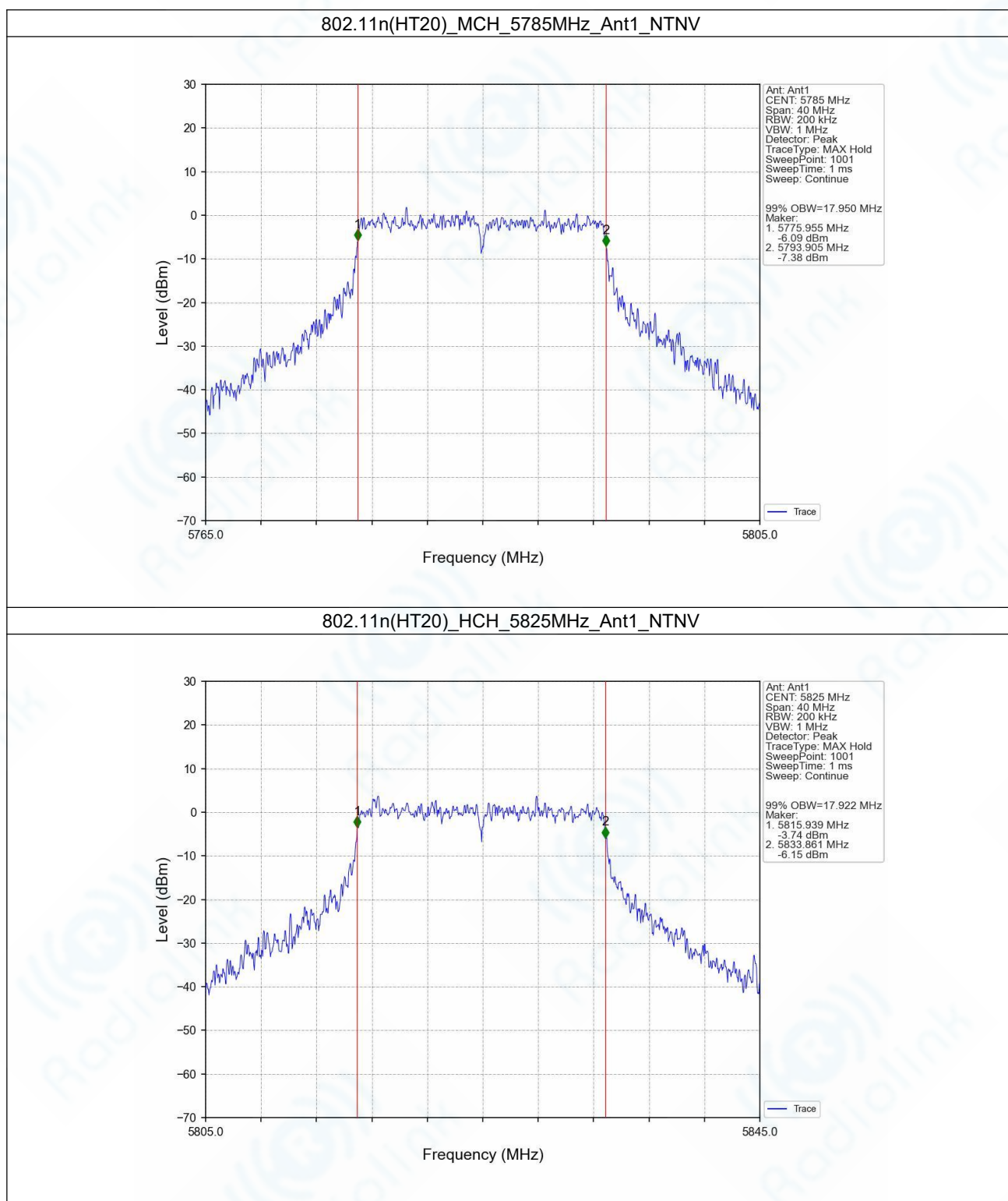
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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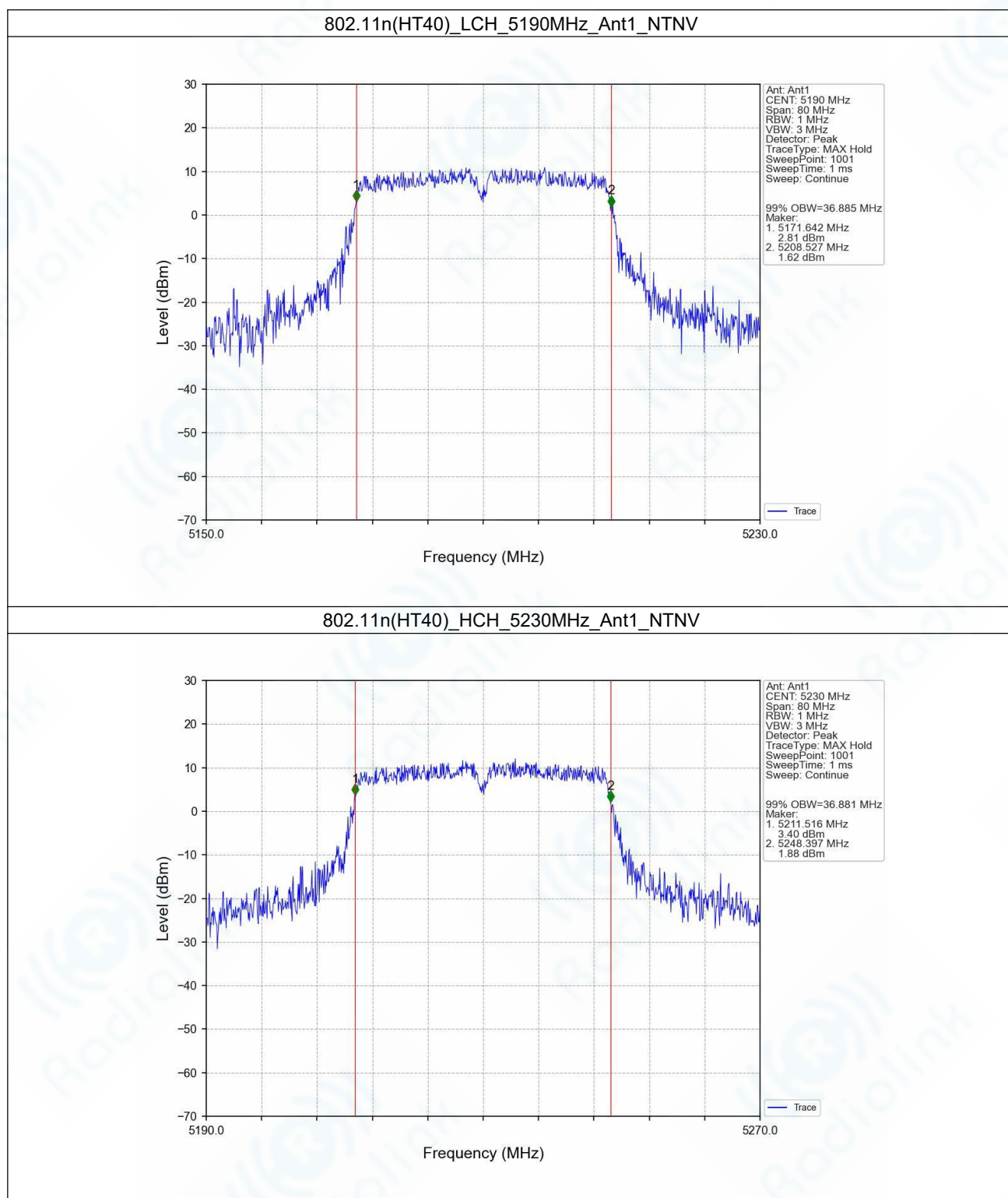
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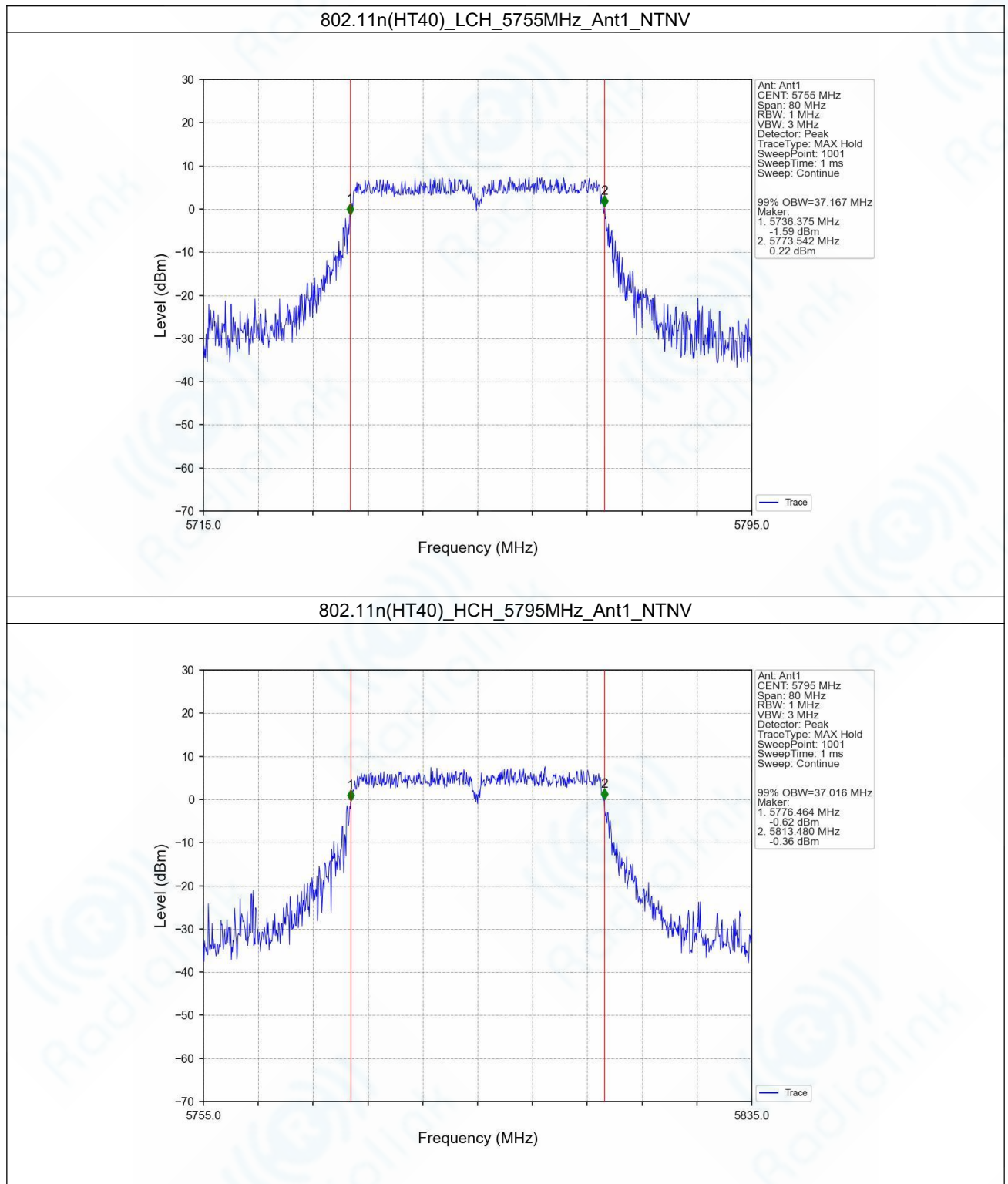
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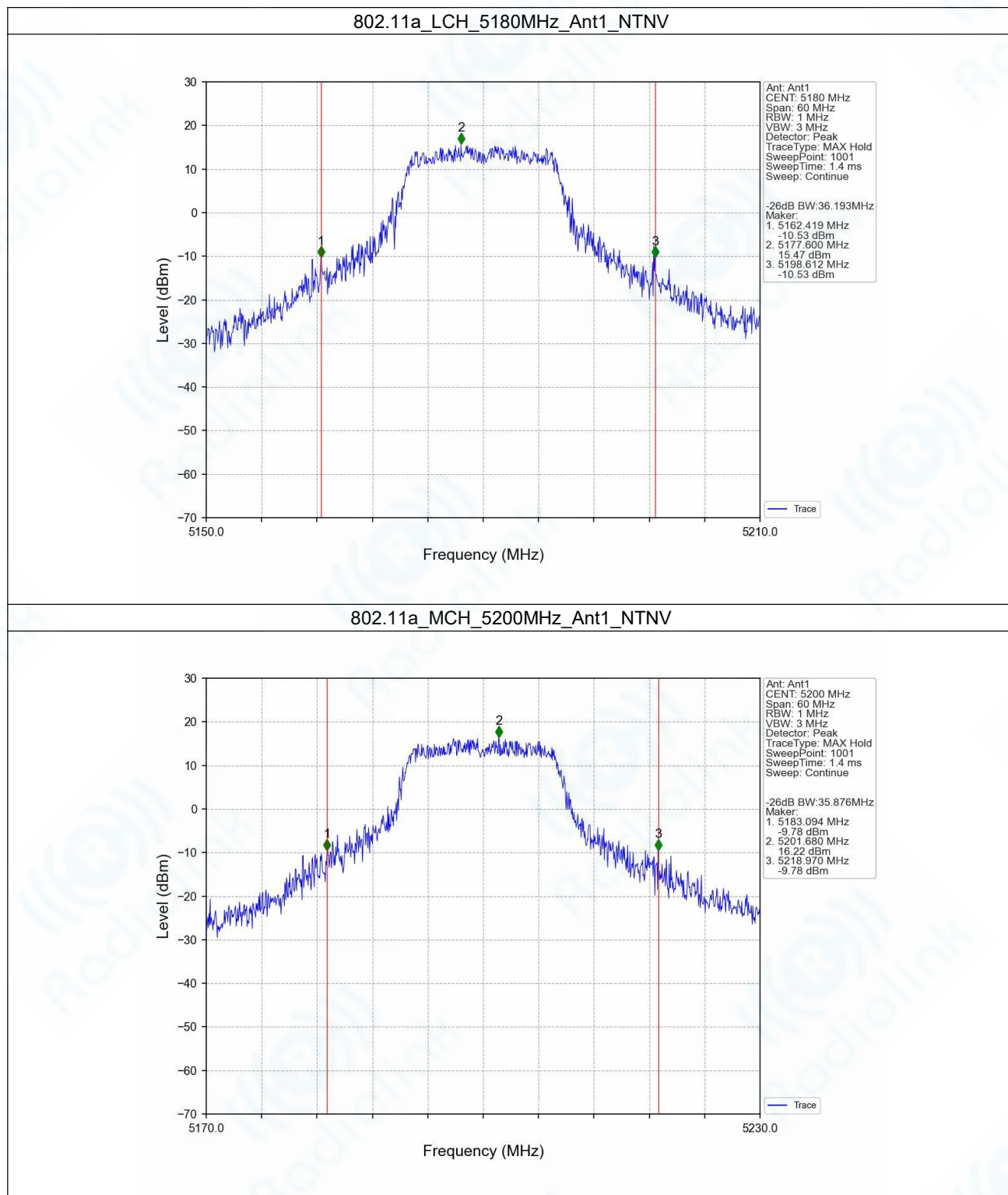


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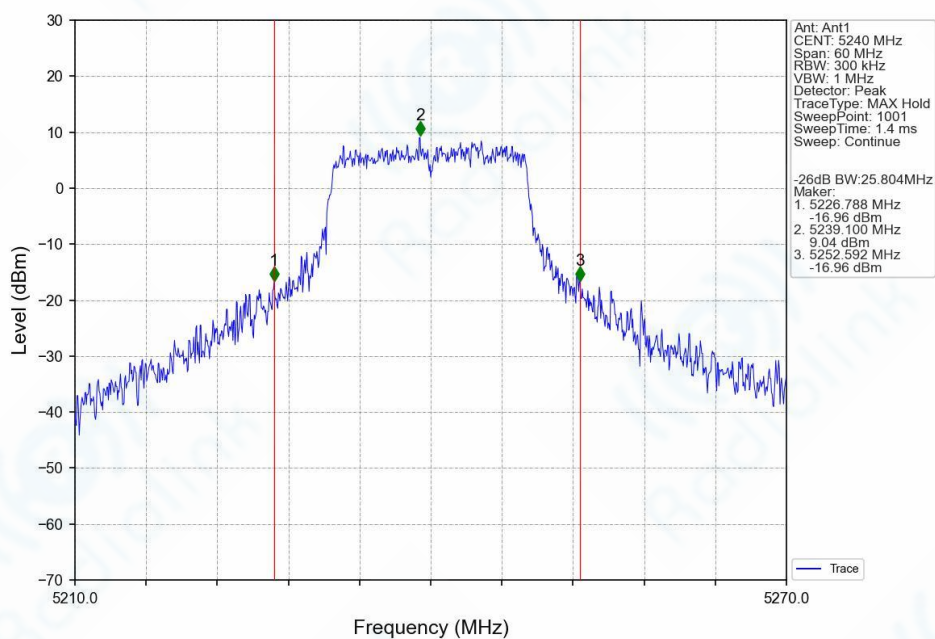
2.2.2 26dB BW



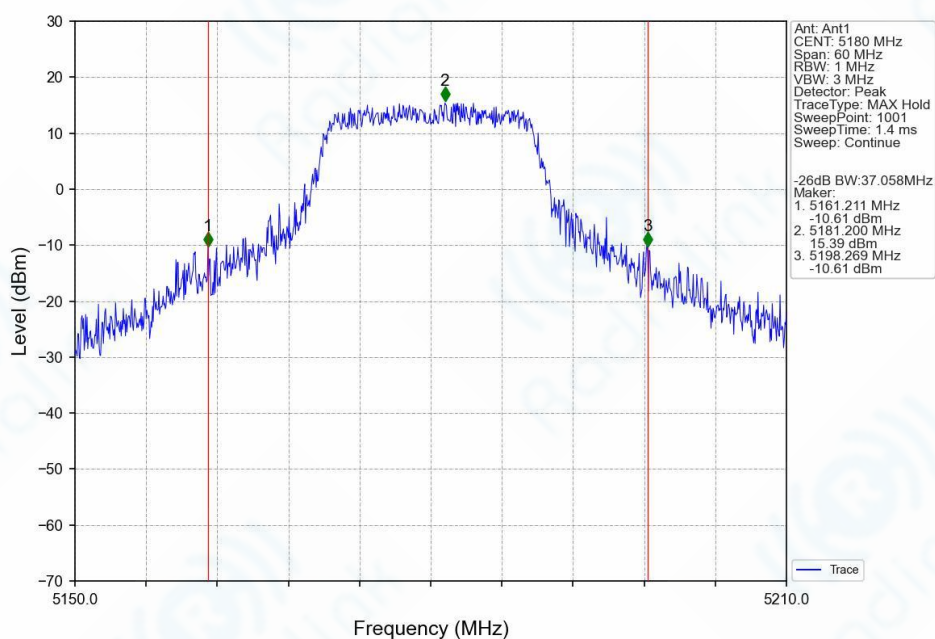
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

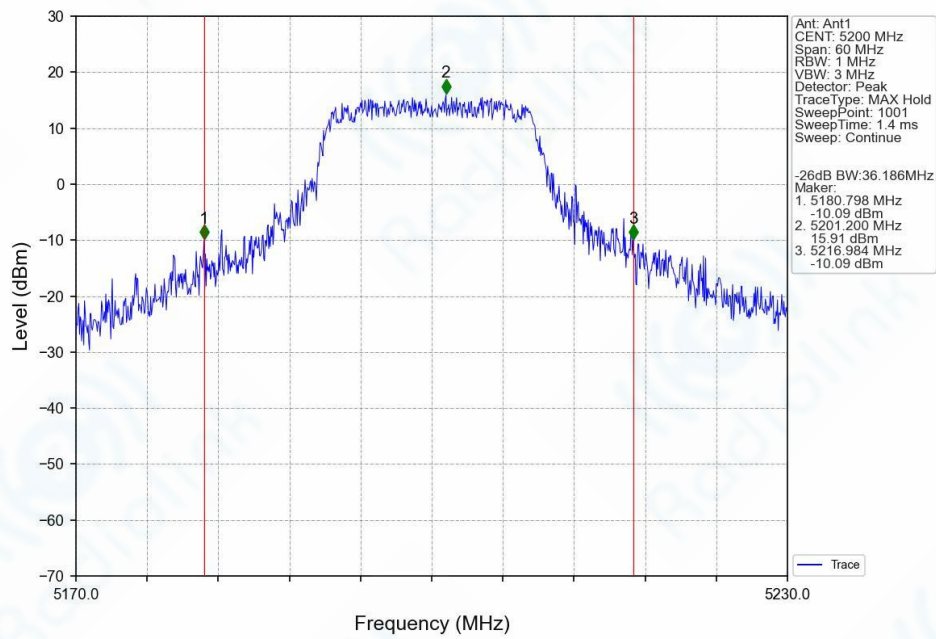


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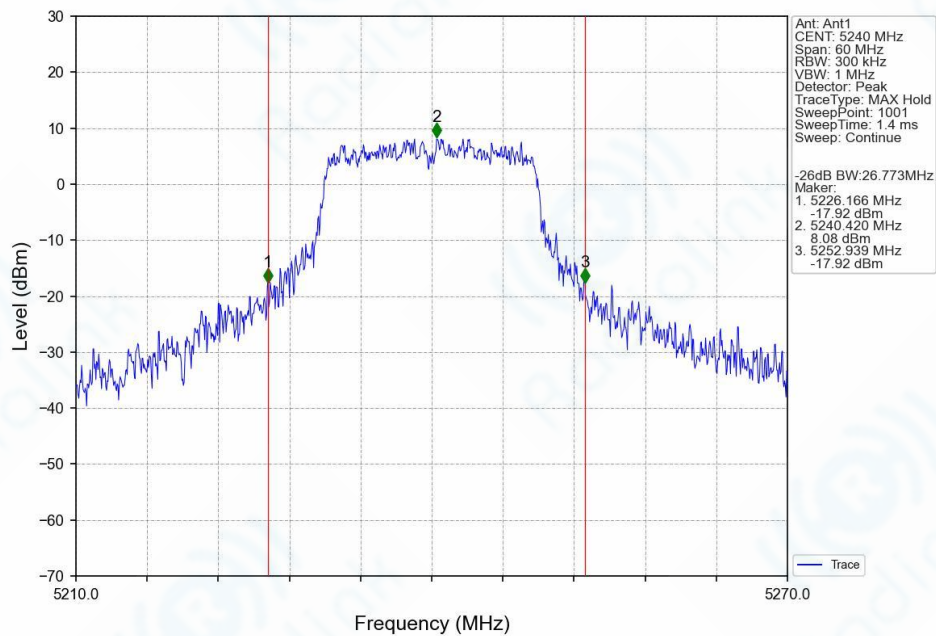
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



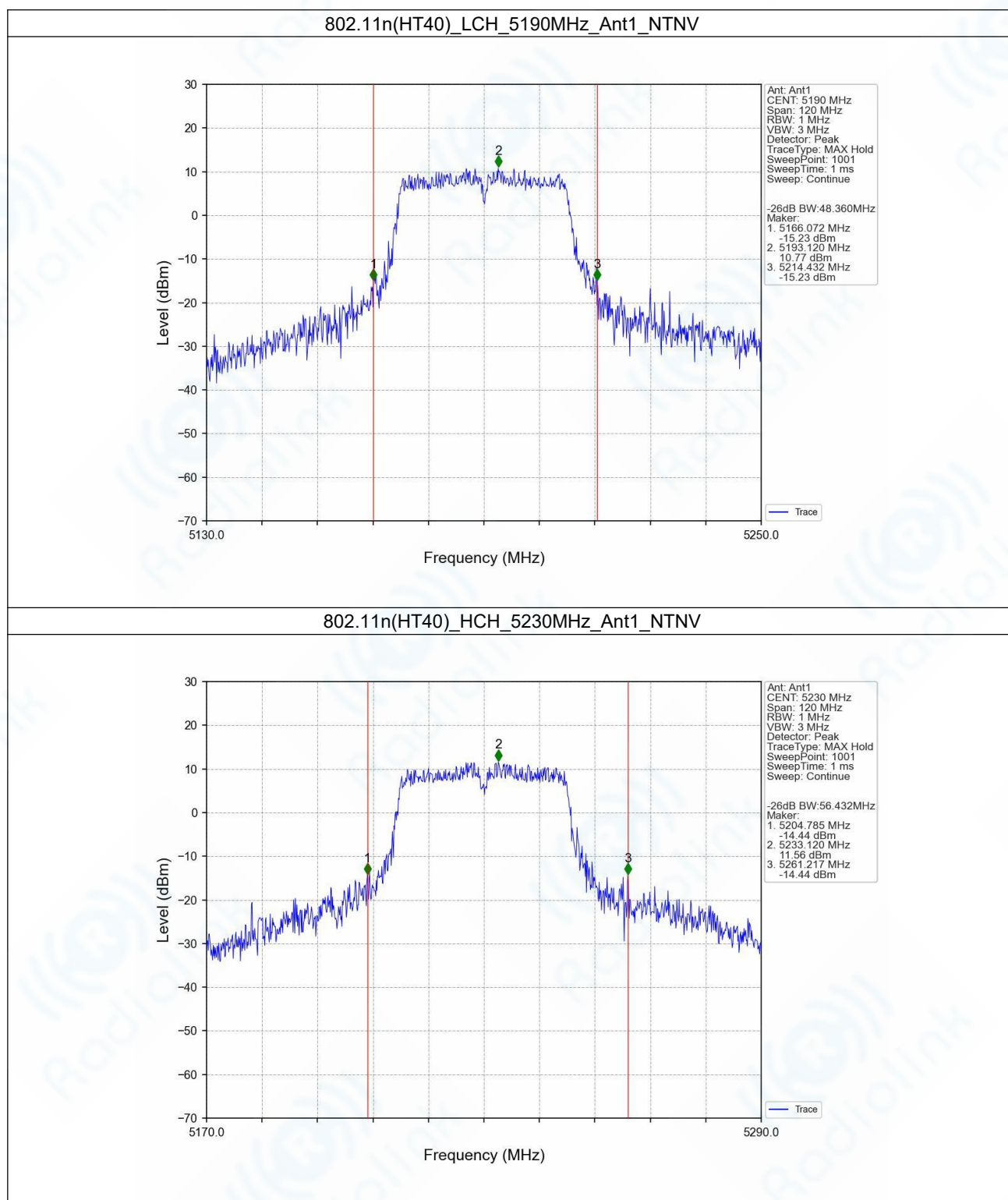
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



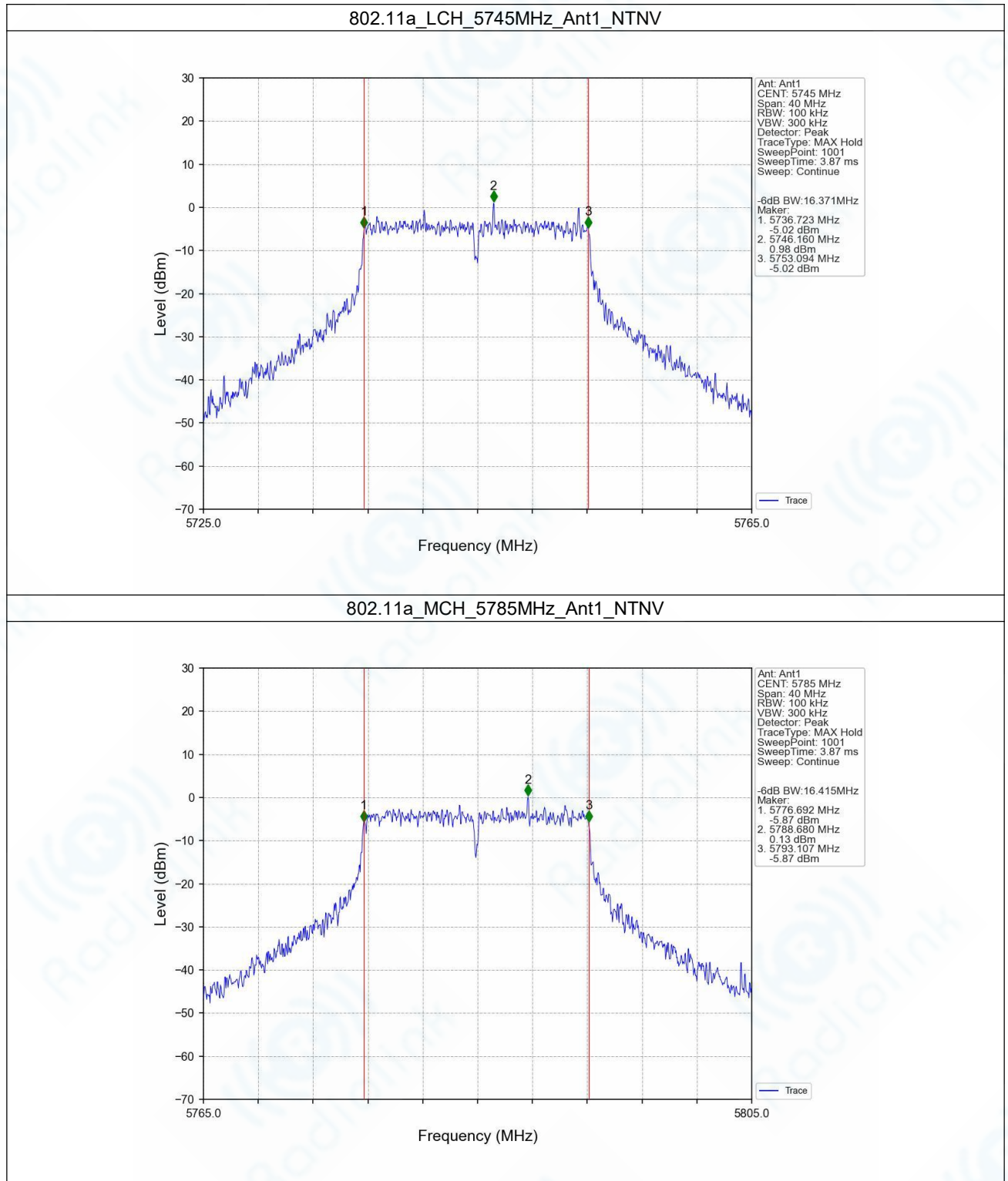
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2.2.3 6dB BW

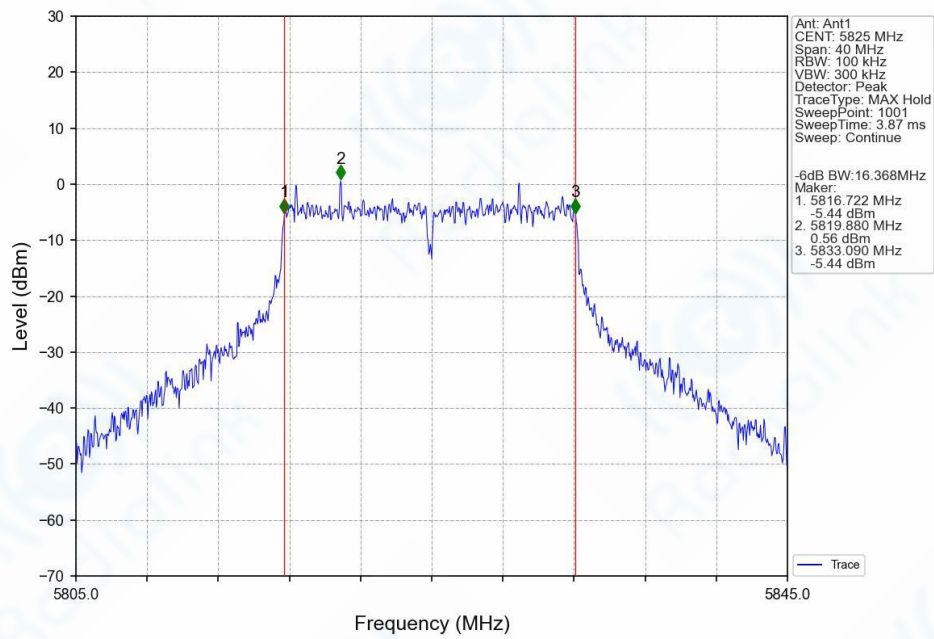


Radiolink Testing (Shenzhen) Co., Ltd.

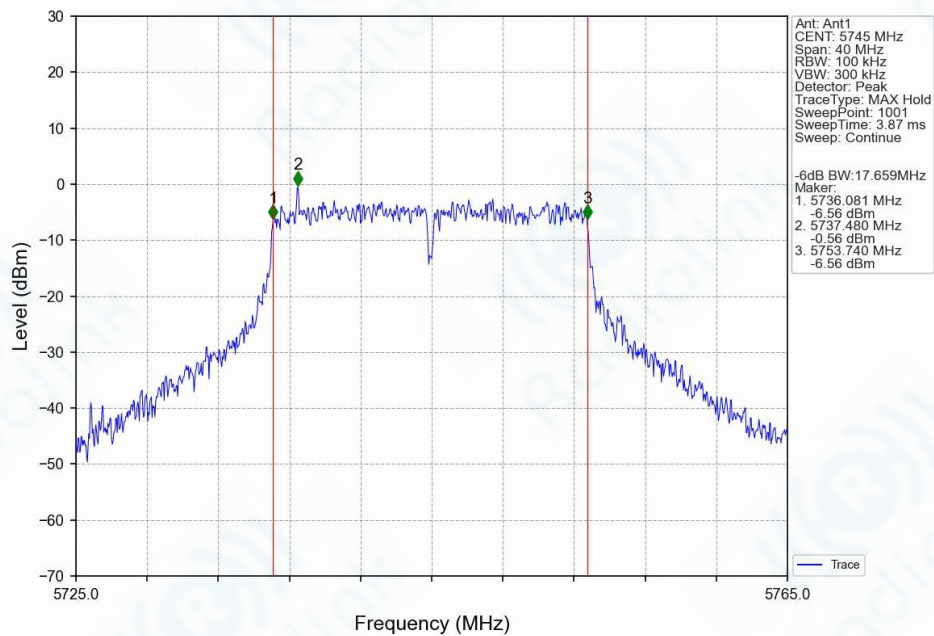
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

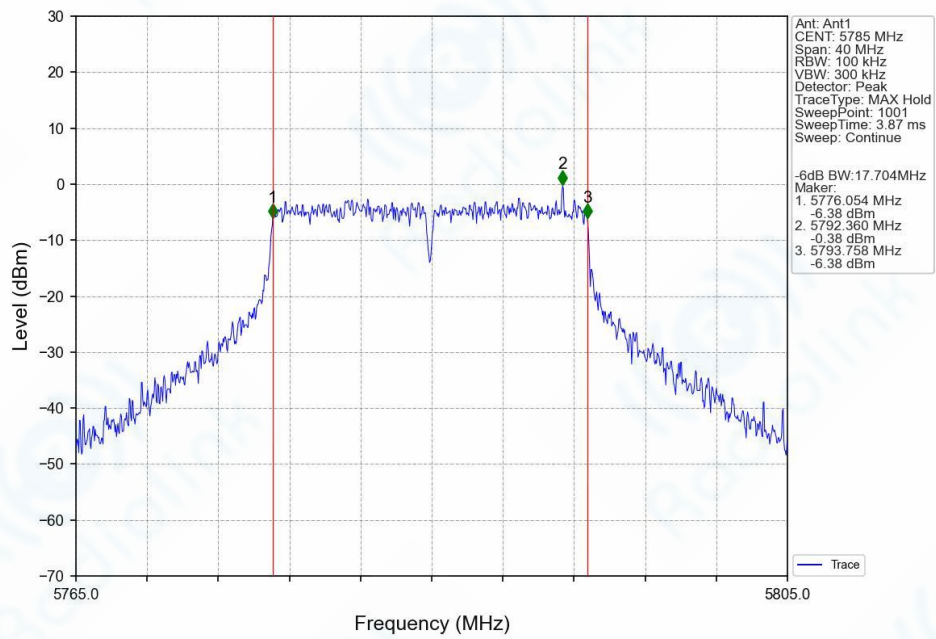


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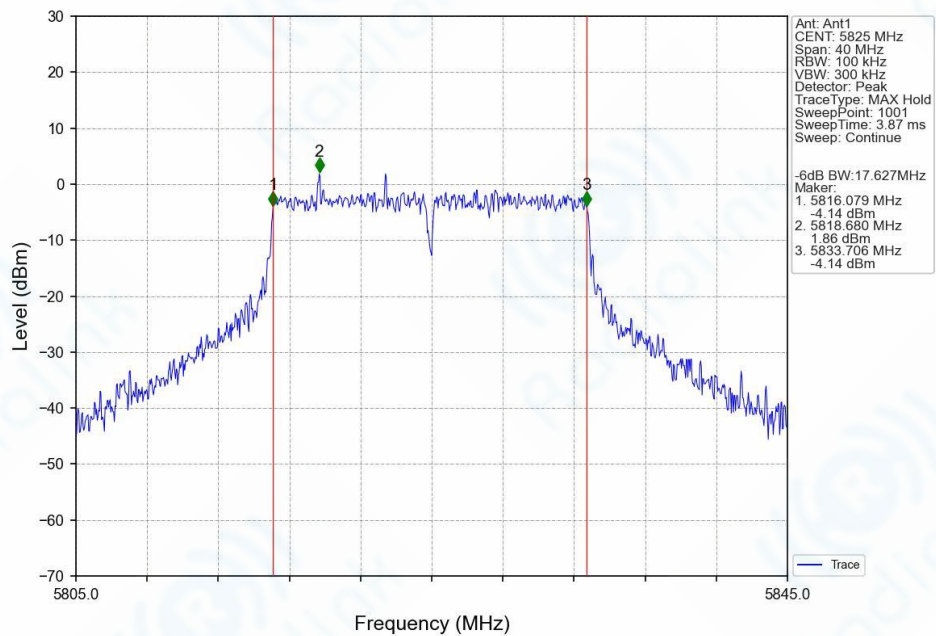
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



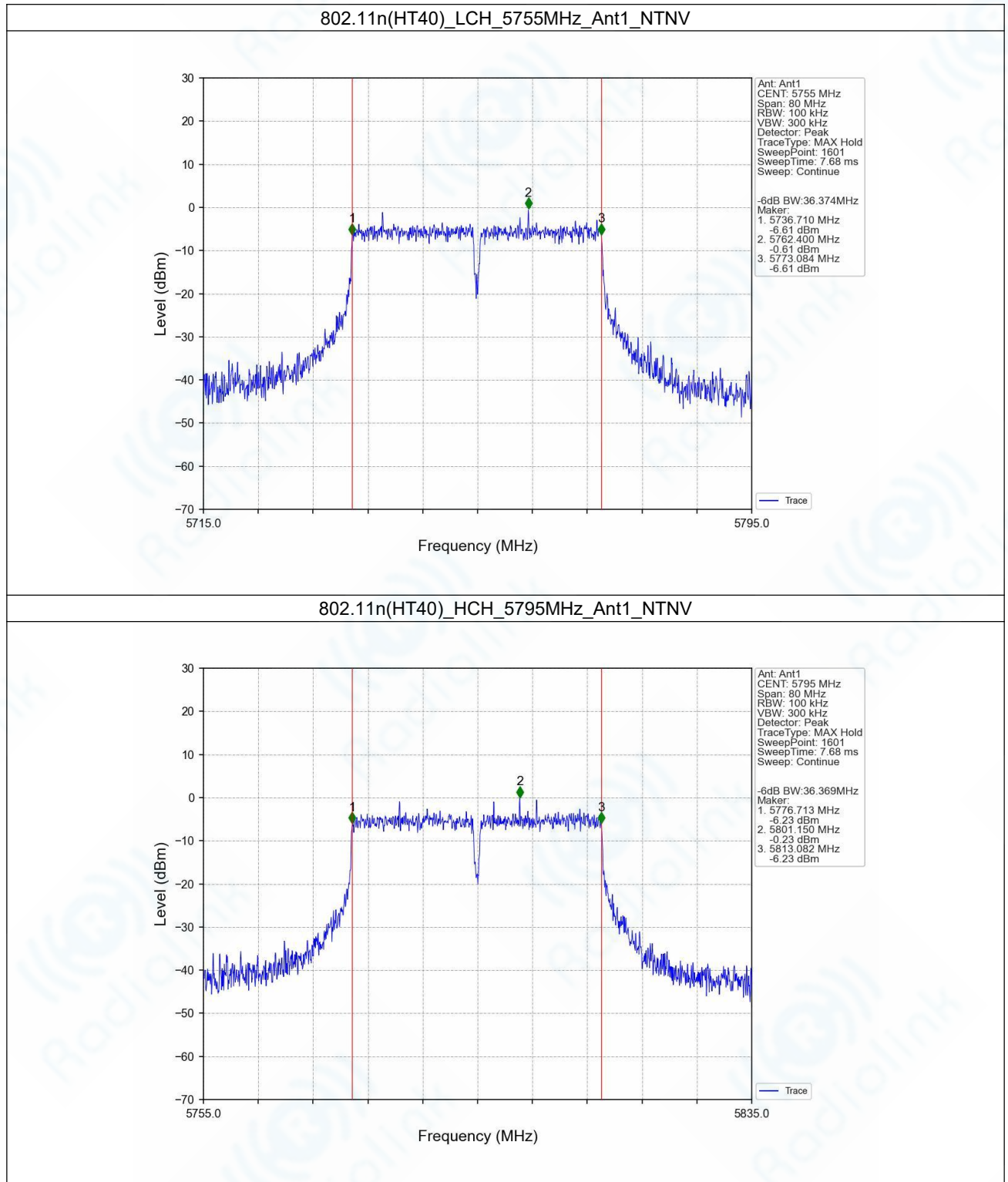
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

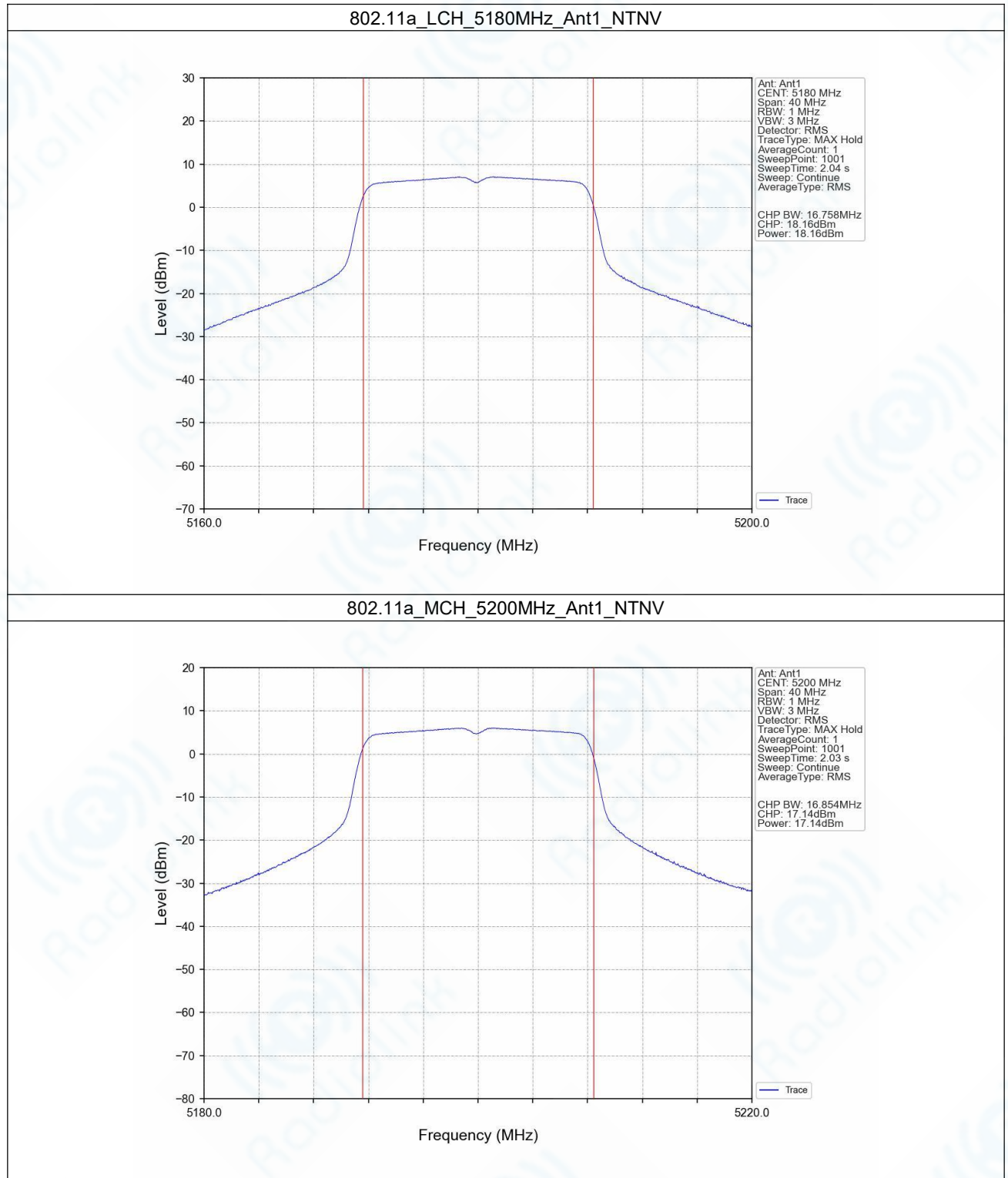
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	18.16	<=23.98	Pass
		5200	17.14	<=23.98	Pass
		5240	17.51	<=23.98	Pass
		5745	11.90	<=30	Pass
		5785	11.89	<=30	Pass
		5825	11.50	<=30	Pass
802.11n (HT20)	SISO	5180	18.29	<=23.98	Pass
		5200	18.59	<=23.98	Pass
		5240	17.43	<=23.98	Pass
		5745	12.05	<=30	Pass
		5785	11.90	<=30	Pass
		5825	13.85	<=30	Pass
802.11n (HT40)	SISO	5190	17.06	<=23.98	Pass
		5230	17.50	<=23.98	Pass
		5755	14.19	<=30	Pass
		5795	14.20	<=30	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 1.93dBi; - Band: 3 Ant1: 1.44dBi;					



3.2 Test Graph

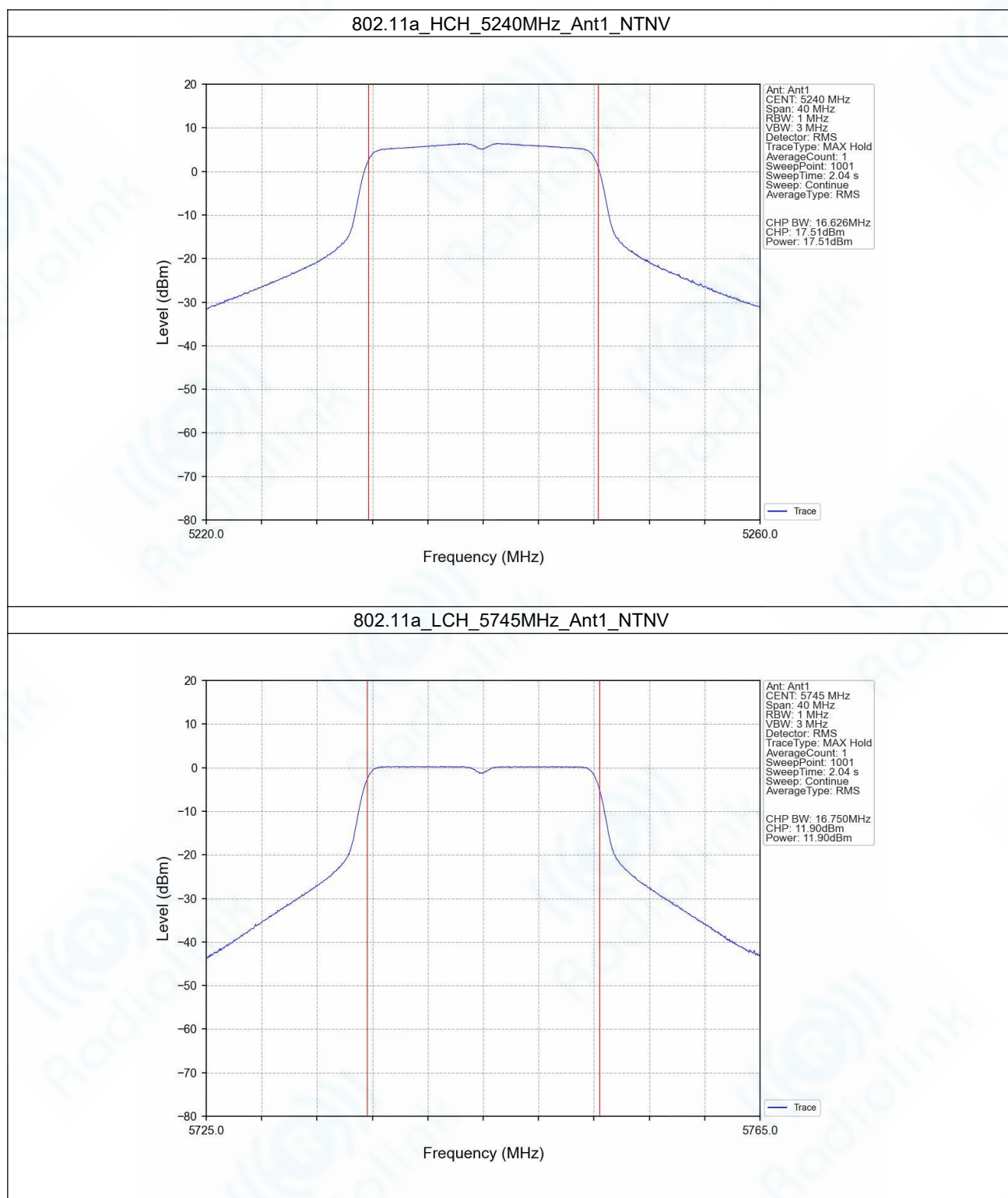
3.2.1 Power

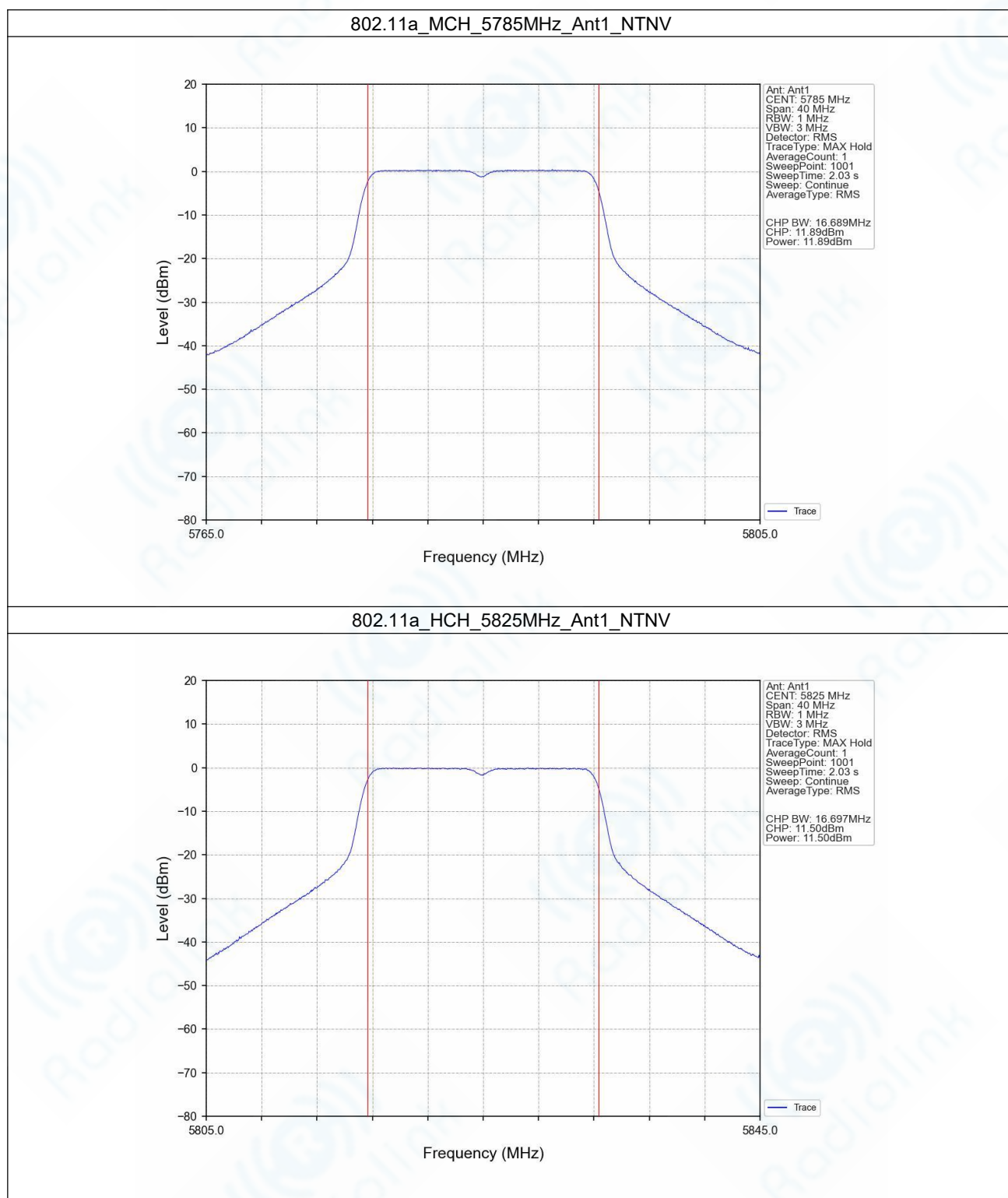


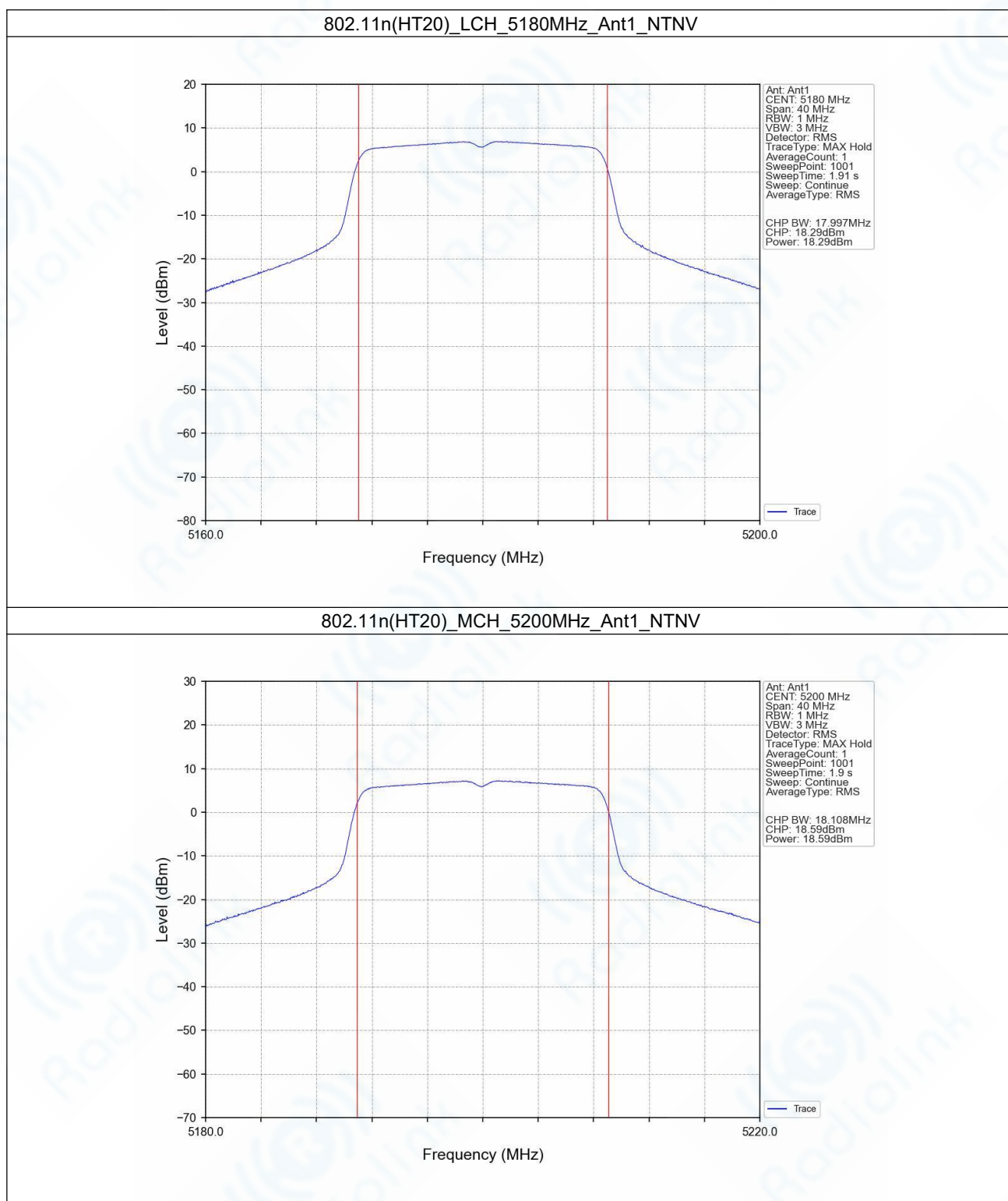
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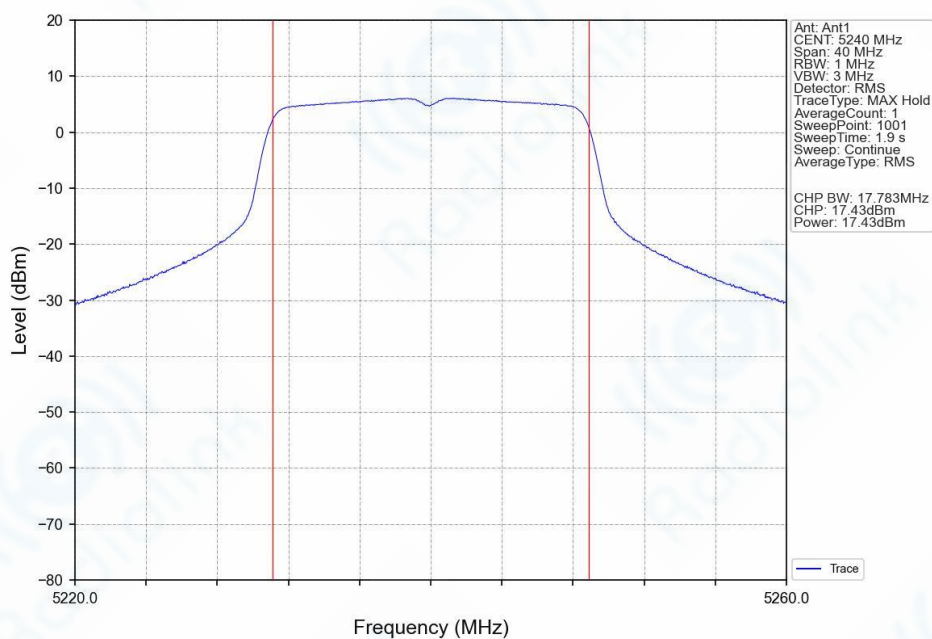
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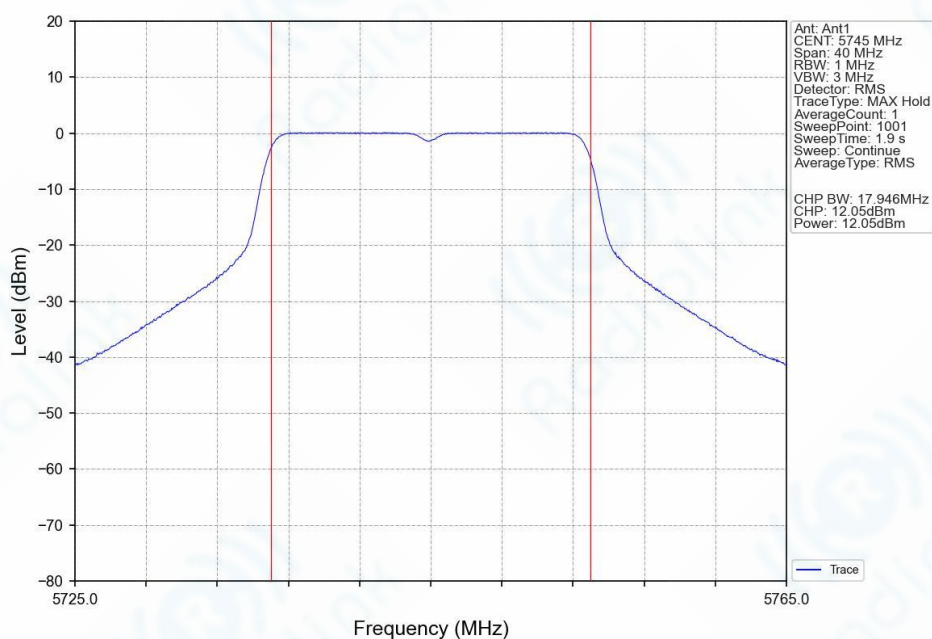




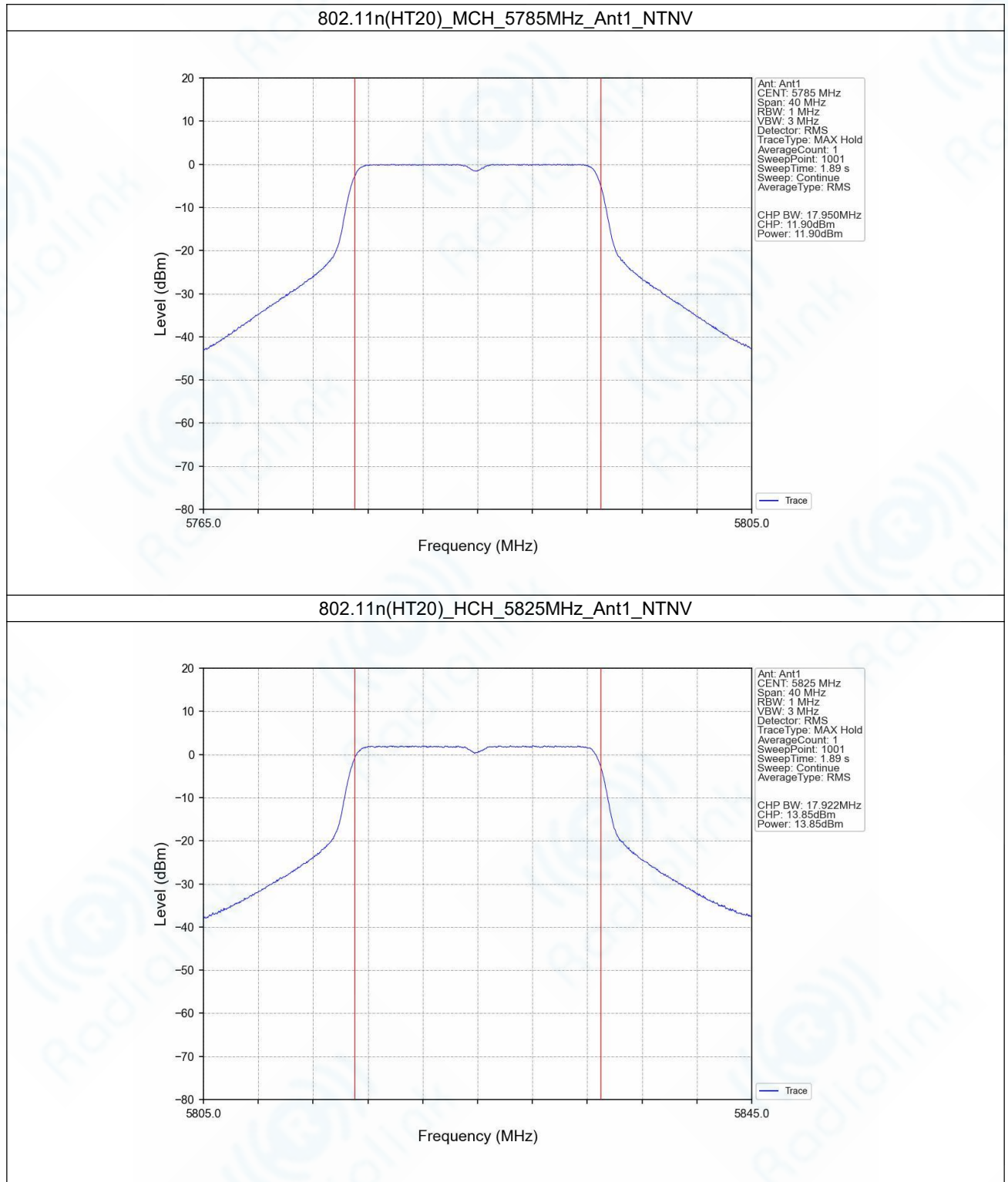
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

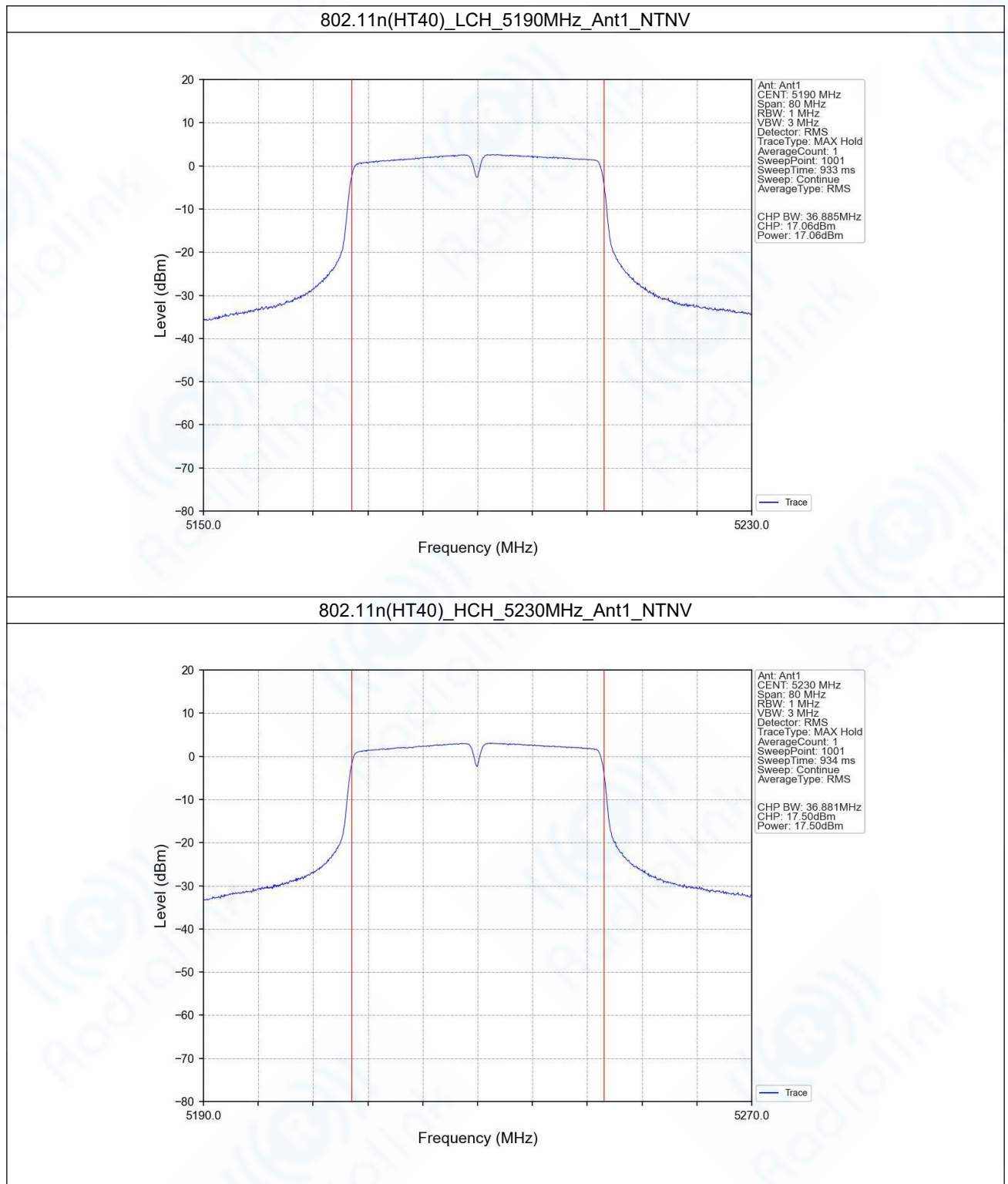


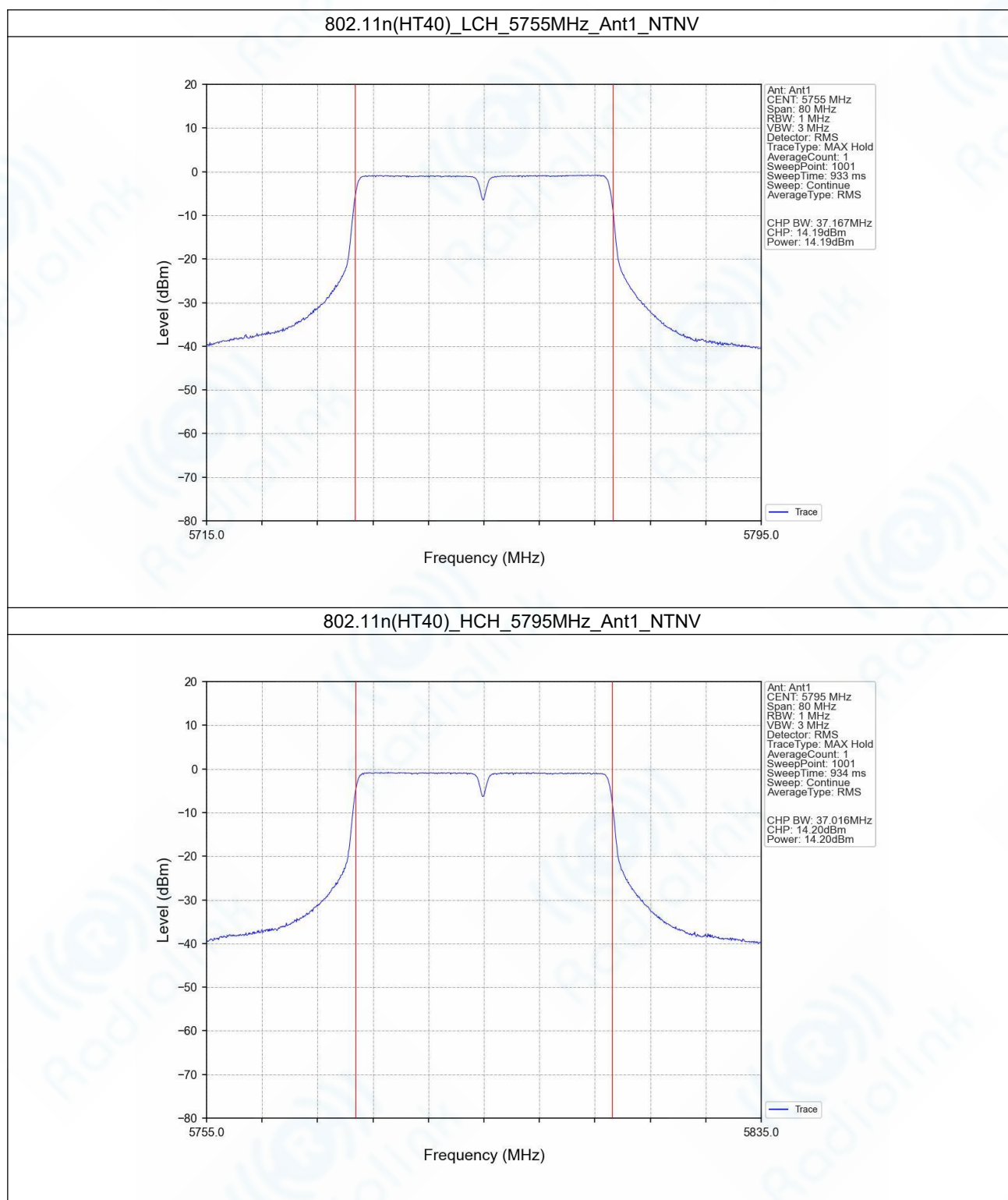
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV


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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	7.03	≤ 11	Pass
		5200	6.02	≤ 11	Pass
		5240	6.35	≤ 11	Pass
802.11n (HT20)	SISO	5180	6.89	≤ 11	Pass
		5200	7.17	≤ 11	Pass
		5240	6.07	≤ 11	Pass
802.11n (HT40)	SISO	5190	2.63	≤ 11	Pass
		5230	3.04	≤ 11	Pass

Note1: Antenna Gain:
- Band: 1 Ant1: 1.93dBi;
- Band: 3 Ant1: 1.44dBi;

4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-2.50	≤ 30	Pass
		5785	-2.47	≤ 30	Pass
		5825	-2.89	≤ 30	Pass
802.11n (HT20)	SISO	5745	-2.65	≤ 30	Pass
		5785	-2.65	≤ 30	Pass
		5825	-0.83	≤ 30	Pass
802.11n (HT40)	SISO	5755	-3.49	≤ 30	Pass
		5795	-3.42	≤ 30	Pass

Note1: Antenna Gain:
- Band: 1 Ant1: 1.93dBi;
- Band: 3 Ant1: 1.44dBi;



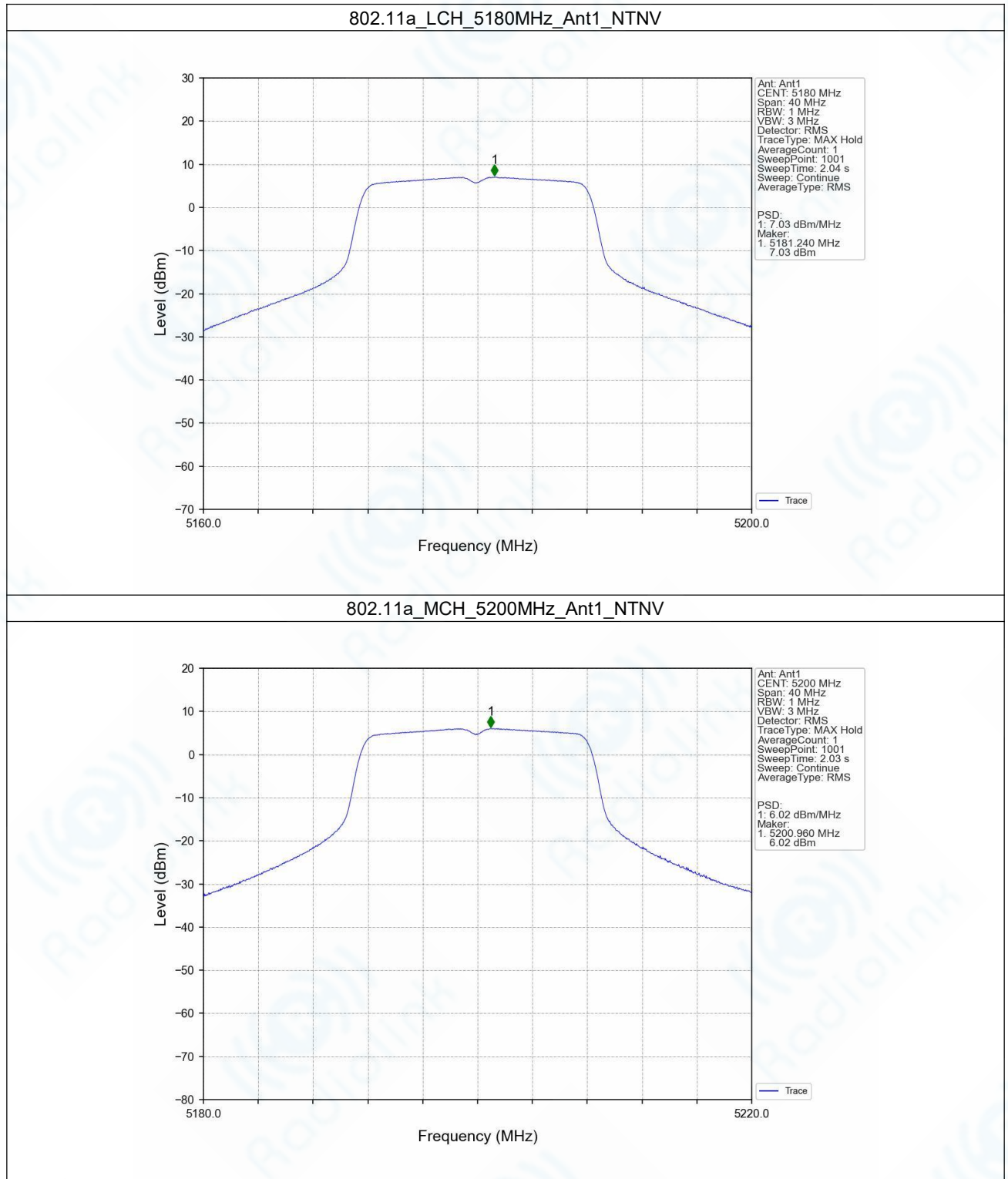
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4.2 Test Graph

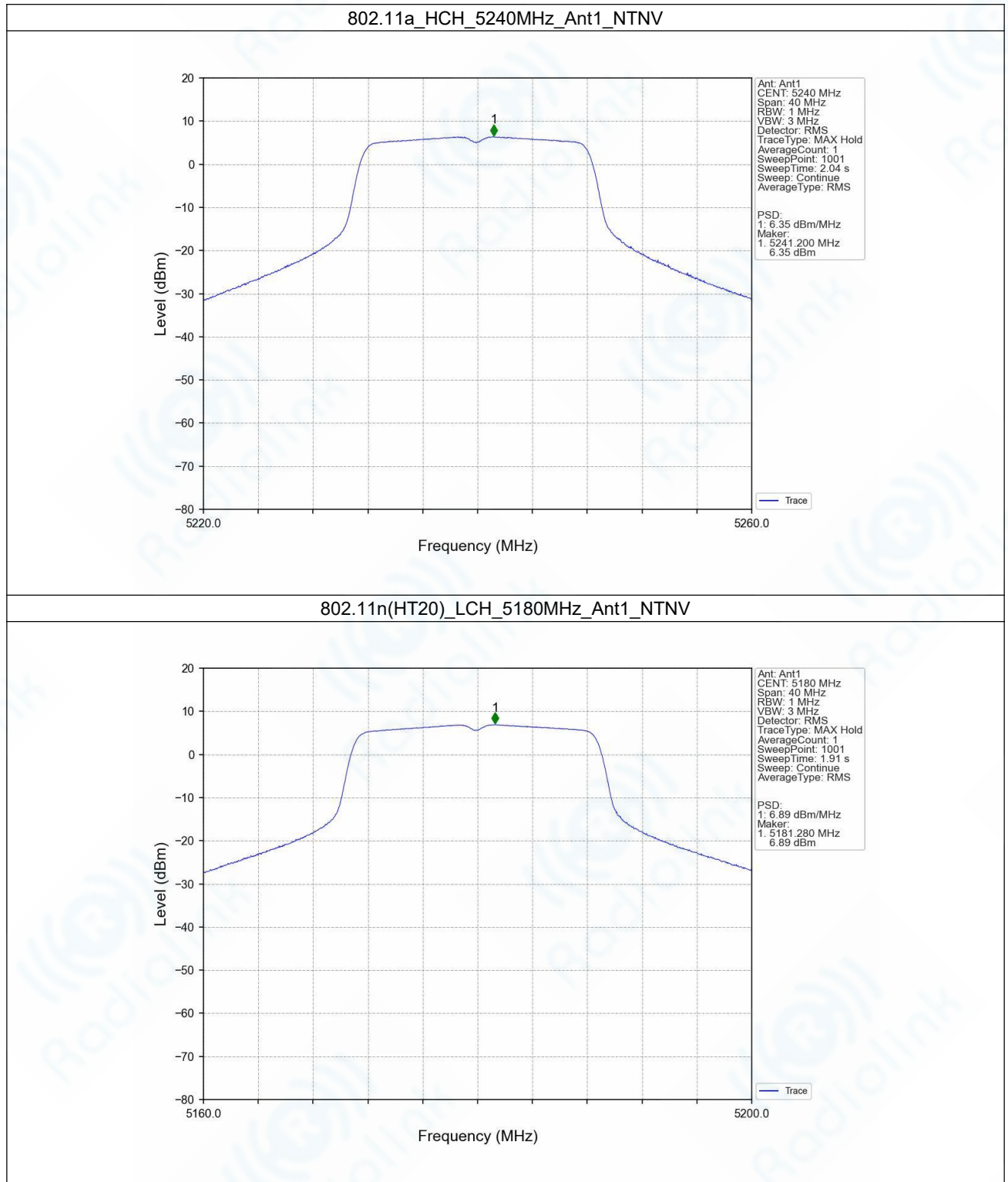
4.2.1 PSD

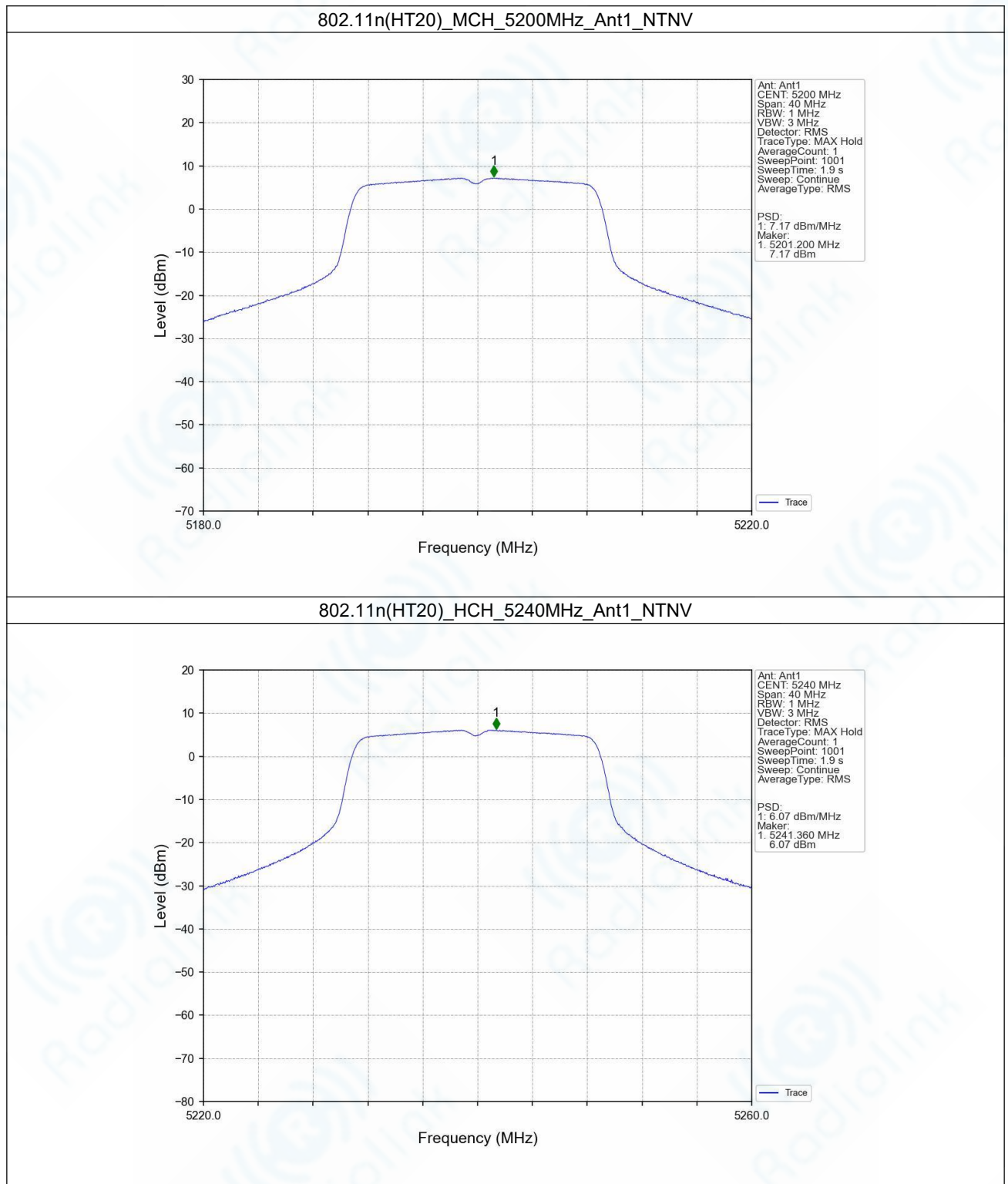


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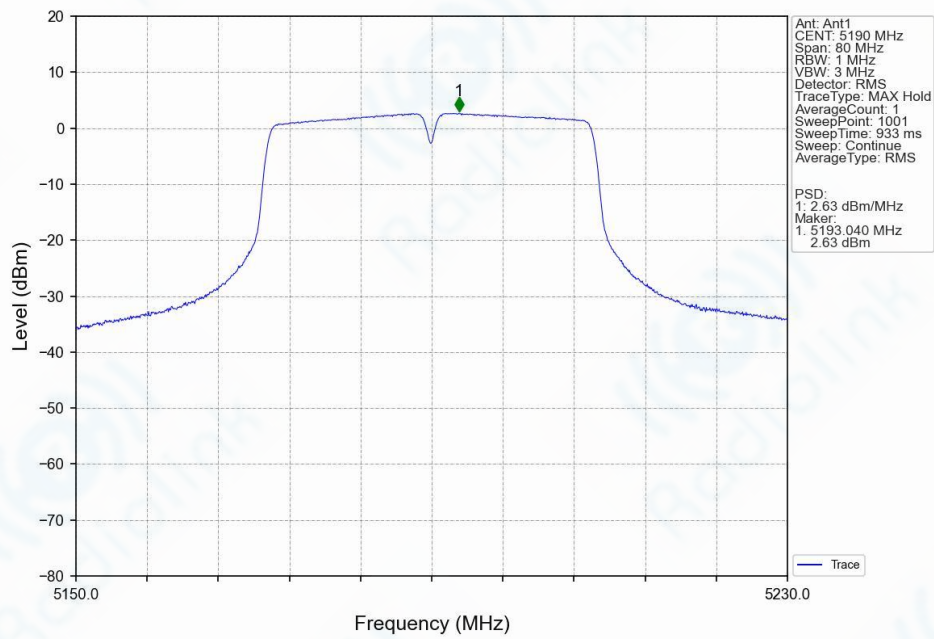
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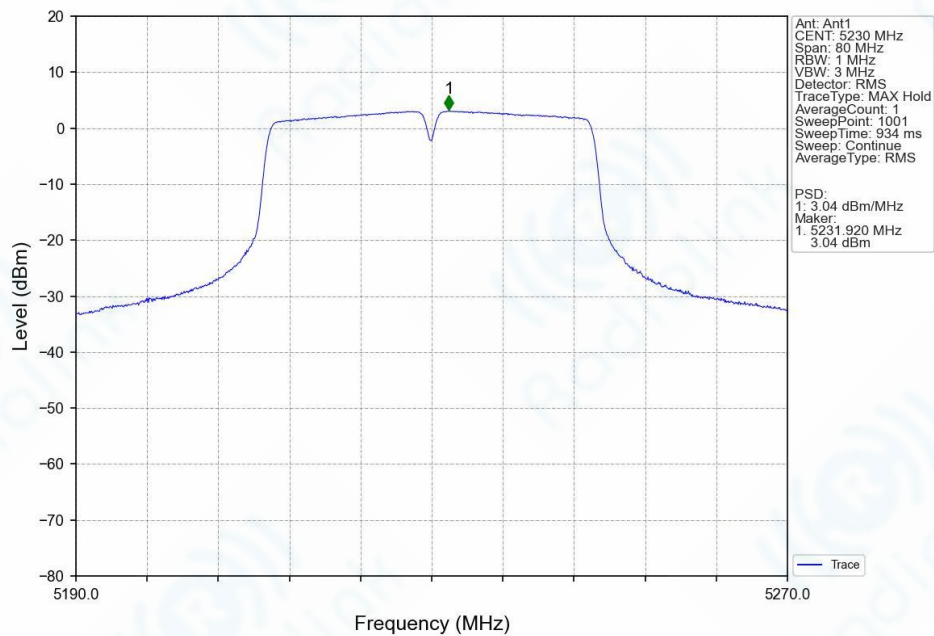




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

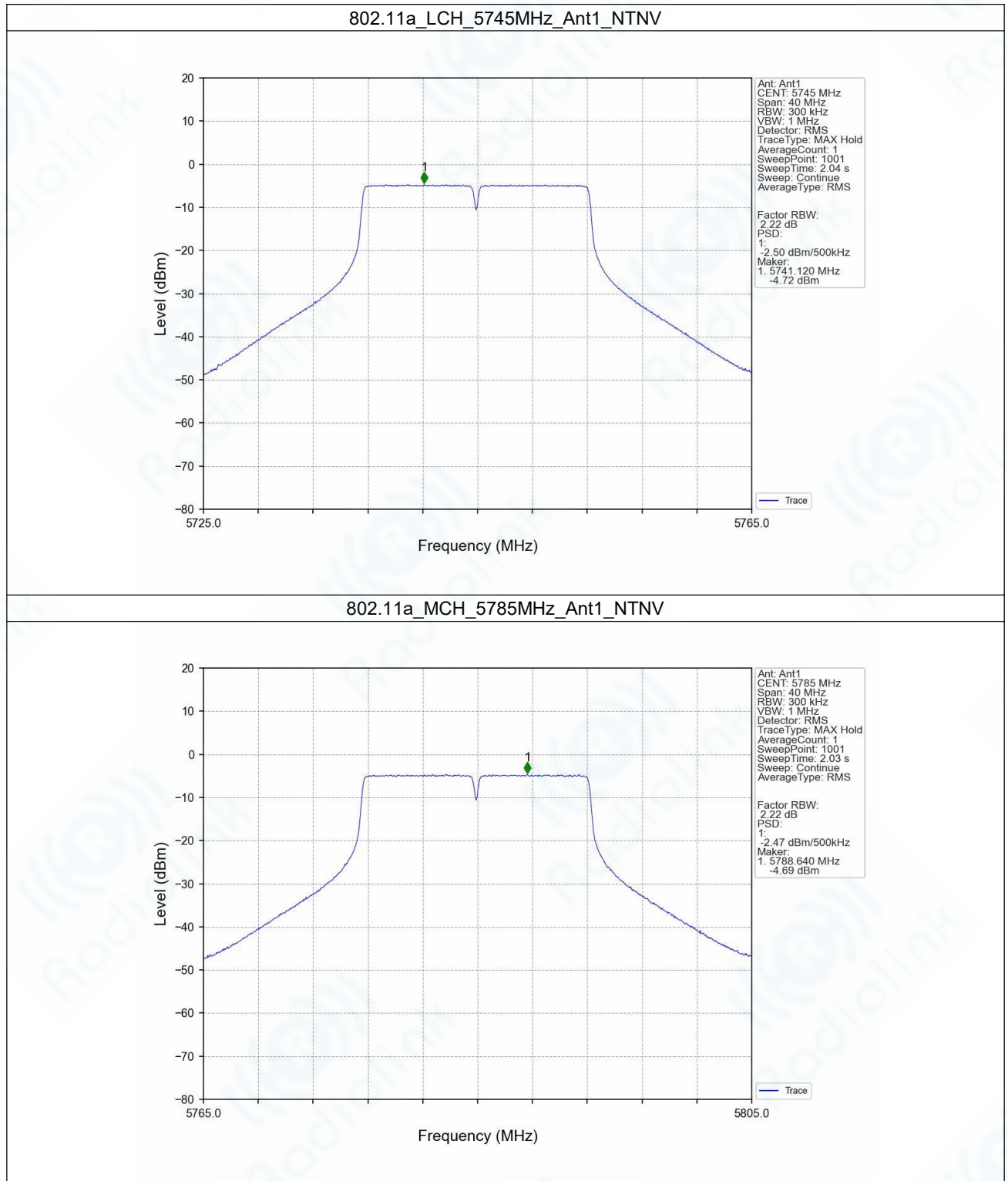


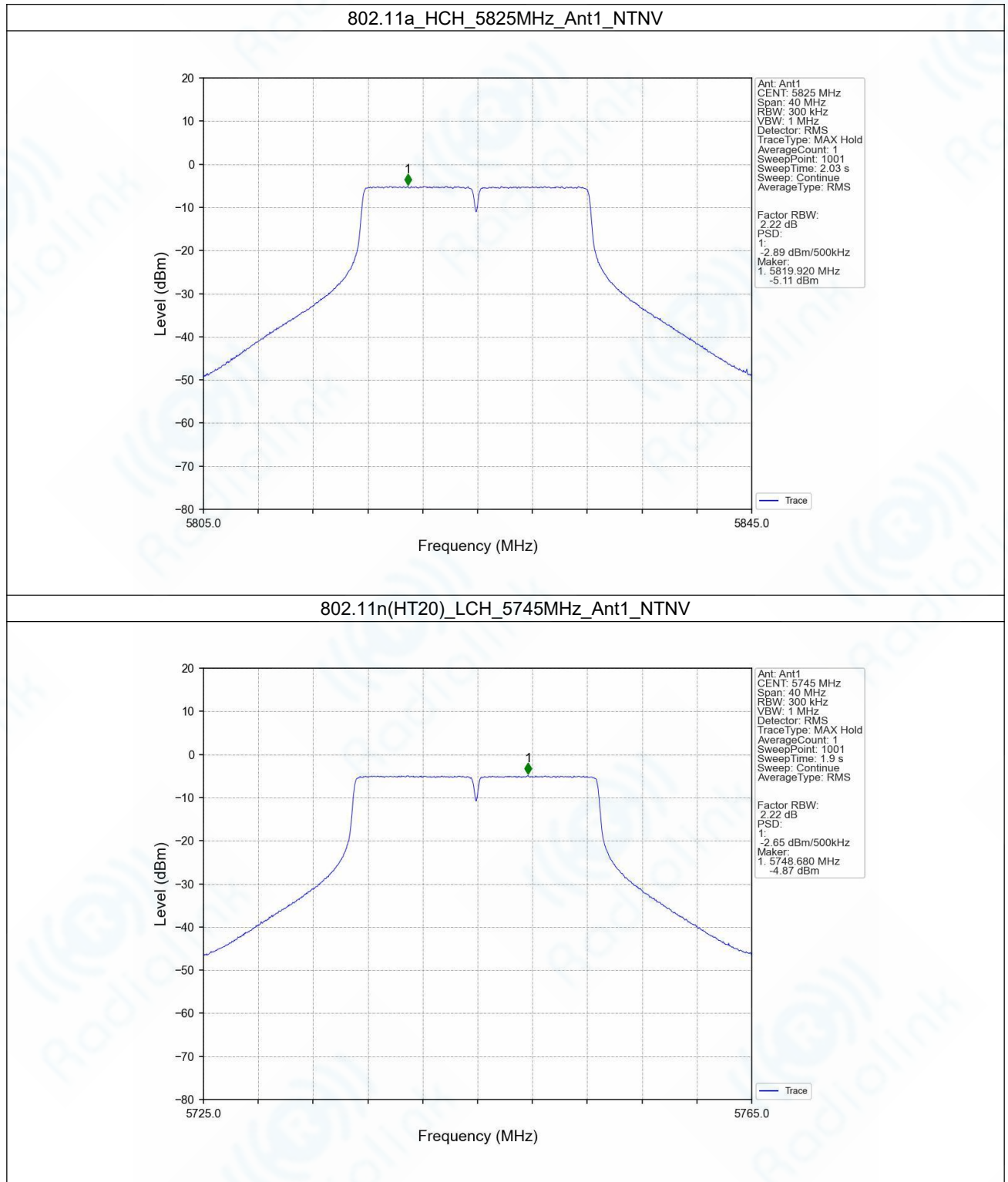
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4.2.2 PSD-Band3

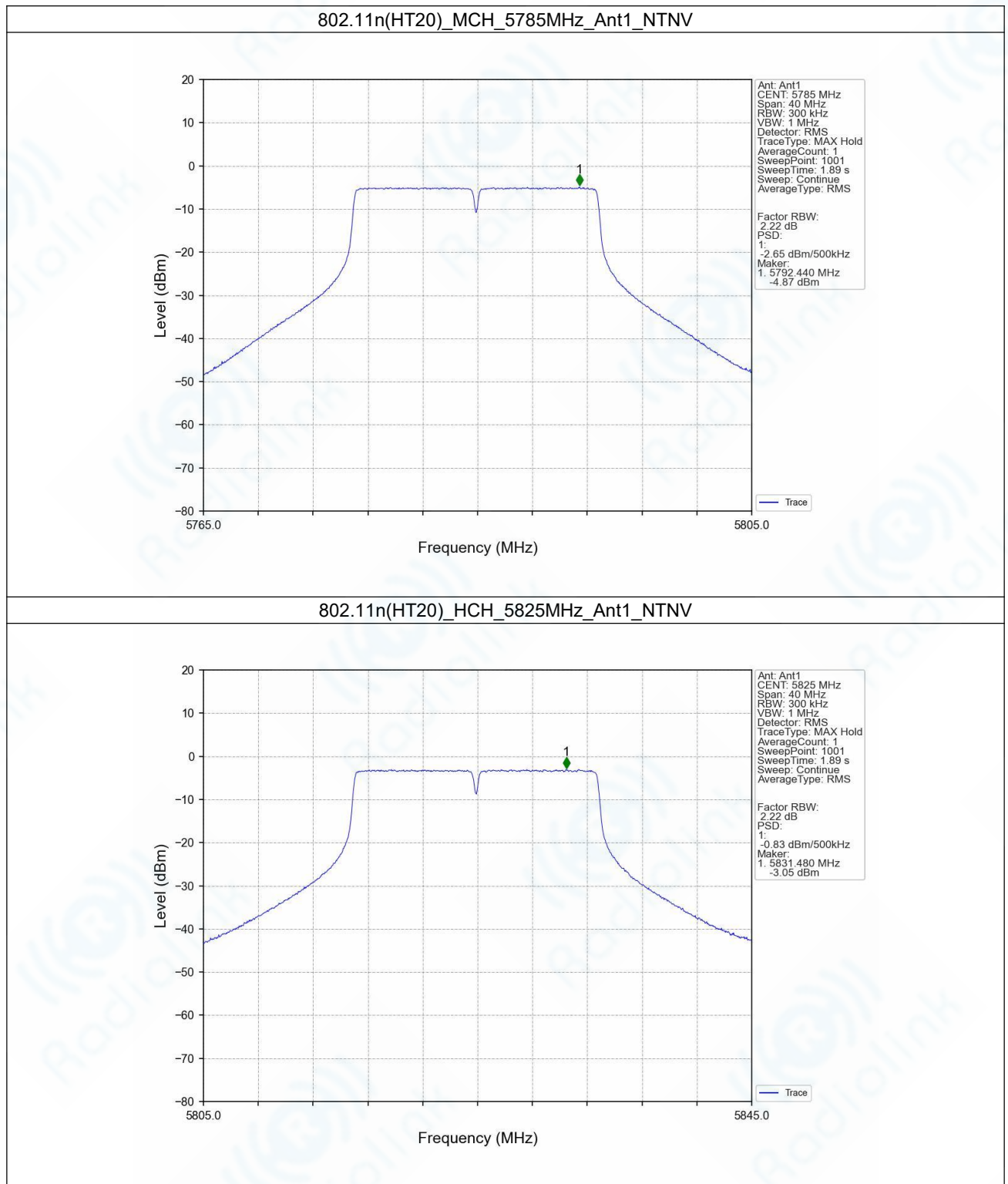


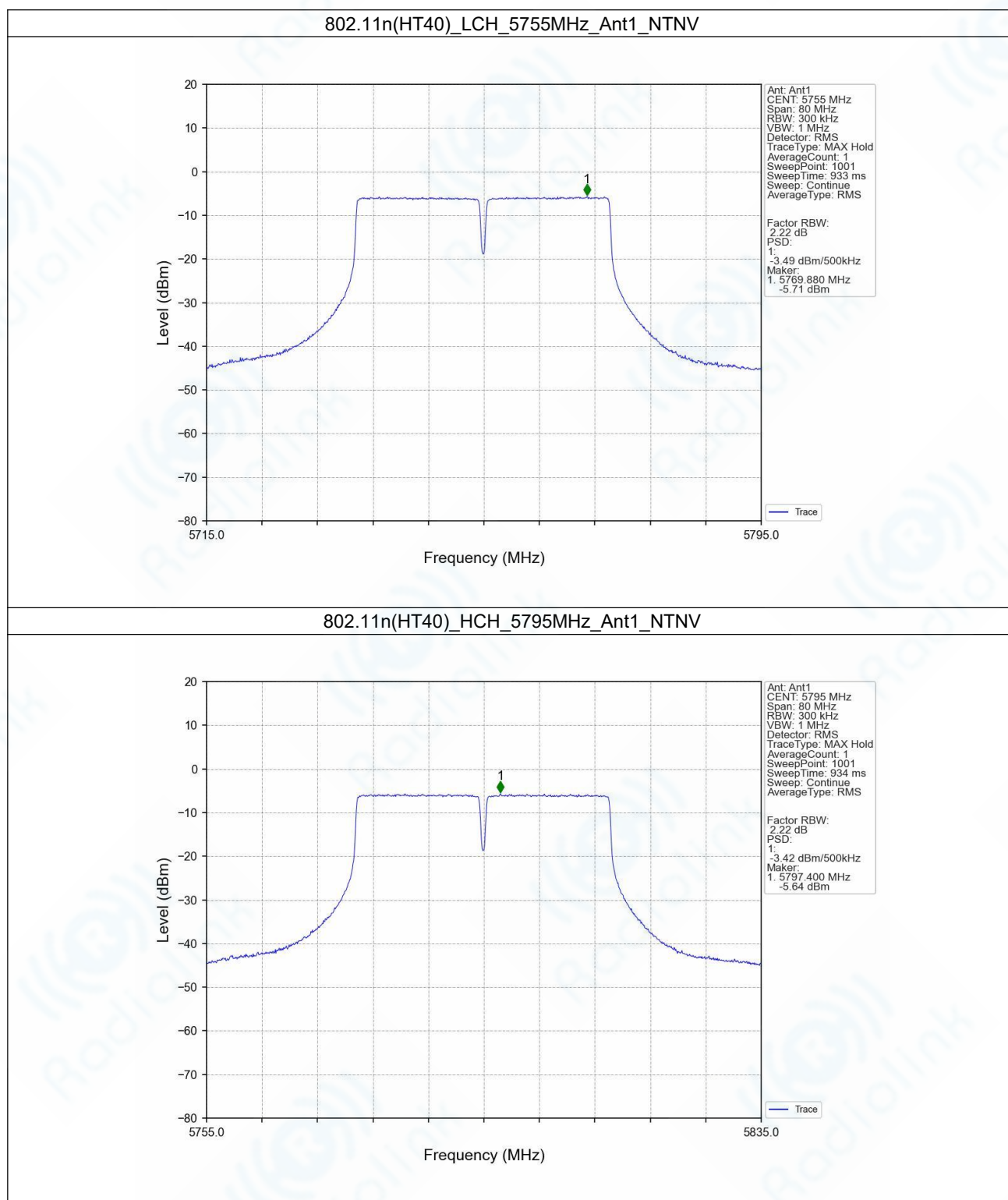


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5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	LV	5179.920	5150 to 5250	Pass
				NV	5179.880	5150 to 5250	Pass
				HV	5179.860	5150 to 5250	Pass
			-30	NV	5179.860	5150 to 5250	Pass
			-20	NV	5179.900	5150 to 5250	Pass
			-10	NV	5179.860	5150 to 5250	Pass
			0	NV	5180.020	5150 to 5250	Pass
			10	NV	5179.960	5150 to 5250	Pass
			30	NV	5179.900	5150 to 5250	Pass
			40	NV	5179.900	5150 to 5250	Pass
			50	NV	5179.900	5150 to 5250	Pass
		5200	20	LV	5199.920	5150 to 5250	Pass
				NV	5199.860	5150 to 5250	Pass
				HV	5199.900	5150 to 5250	Pass
			-30	NV	5199.880	5150 to 5250	Pass
			-20	NV	5199.920	5150 to 5250	Pass
			-10	NV	5199.880	5150 to 5250	Pass
			0	NV	5199.880	5150 to 5250	Pass
			10	NV	5199.980	5150 to 5250	Pass
			30	NV	5199.960	5150 to 5250	Pass
			40	NV	5199.900	5150 to 5250	Pass
			50	NV	5199.940	5150 to 5250	Pass
		5240	20	LV	5239.940	5150 to 5250	Pass
				NV	5239.920	5150 to 5250	Pass
				HV	5239.940	5150 to 5250	Pass
			-30	NV	5239.880	5150 to 5250	Pass
			-20	NV	5239.920	5150 to 5250	Pass
			-10	NV	5239.860	5150 to 5250	Pass
			0	NV	5239.920	5150 to 5250	Pass
			10	NV	5239.880	5150 to 5250	Pass
			30	NV	5239.860	5150 to 5250	Pass
			40	NV	5239.900	5150 to 5250	Pass
			50	NV	5239.880	5150 to 5250	Pass
		5745	20	LV	5744.820	5725 to 5850	Pass
				NV	5744.960	5725 to 5850	Pass
				HV	5744.920	5725 to 5850	Pass
			-30	NV	5744.940	5725 to 5850	Pass
			-20	NV	5744.960	5725 to 5850	Pass
			-10	NV	5744.900	5725 to 5850	Pass
			0	NV	5744.980	5725 to 5850	Pass

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			10	NV	5744.920	5725 to 5850	Pass
			30	NV	5744.900	5725 to 5850	Pass
			40	NV	5744.920	5725 to 5850	Pass
			50	NV	5744.940	5725 to 5850	Pass
		5785	20	LV	5784.900	5725 to 5850	Pass
				NV	5784.980	5725 to 5850	Pass
				HV	5784.840	5725 to 5850	Pass
			-30	NV	5784.860	5725 to 5850	Pass
			-20	NV	5784.940	5725 to 5850	Pass
			-10	NV	5784.940	5725 to 5850	Pass
			0	NV	5784.860	5725 to 5850	Pass
			10	NV	5784.940	5725 to 5850	Pass
			30	NV	5784.860	5725 to 5850	Pass
			40	NV	5784.880	5725 to 5850	Pass
			50	NV	5784.960	5725 to 5850	Pass
		5825	20	LV	5824.820	5725 to 5850	Pass
				NV	5824.900	5725 to 5850	Pass
				HV	5824.820	5725 to 5850	Pass
			-30	NV	5824.960	5725 to 5850	Pass
			-20	NV	5824.840	5725 to 5850	Pass
			-10	NV	5824.900	5725 to 5850	Pass
			0	NV	5824.940	5725 to 5850	Pass
			10	NV	5824.880	5725 to 5850	Pass
			30	NV	5824.940	5725 to 5850	Pass
			40	NV	5824.940	5725 to 5850	Pass
			50	NV	5824.880	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	LV	5179.920	5150 to 5250	Pass
				NV	5179.980	5150 to 5250	Pass
				HV	5180.020	5150 to 5250	Pass
			-30	NV	5180.000	5150 to 5250	Pass
			-20	NV	5180.020	5150 to 5250	Pass
			-10	NV	5179.960	5150 to 5250	Pass
			0	NV	5179.980	5150 to 5250	Pass
			10	NV	5179.920	5150 to 5250	Pass
			30	NV	5180.000	5150 to 5250	Pass
			40	NV	5179.920	5150 to 5250	Pass
			50	NV	5179.960	5150 to 5250	Pass
		5200	20	LV	5199.900	5150 to 5250	Pass
				NV	5200.020	5150 to 5250	Pass
				HV	5199.940	5150 to 5250	Pass
			-30	NV	5199.880	5150 to 5250	Pass
			-20	NV	5199.820	5150 to 5250	Pass
			-10	NV	5199.860	5150 to 5250	Pass
			0	NV	5200.000	5150 to 5250	Pass
			10	NV	5199.940	5150 to 5250	Pass
			30	NV	5199.880	5150 to 5250	Pass
			40	NV	5199.880	5150 to 5250	Pass
			50	NV	5199.900	5150 to 5250	Pass
		5240	20	LV	5240.000	5150 to 5250	Pass
				NV	5239.980	5150 to 5250	Pass
				HV	5239.880	5150 to 5250	Pass


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			-30	NV	5239.900	5150 to 5250	Pass
			-20	NV	5239.880	5150 to 5250	Pass
			-10	NV	5239.860	5150 to 5250	Pass
			0	NV	5239.980	5150 to 5250	Pass
			10	NV	5239.960	5150 to 5250	Pass
			30	NV	5239.940	5150 to 5250	Pass
			40	NV	5239.920	5150 to 5250	Pass
			50	NV	5240.000	5150 to 5250	Pass
		5745	20	LV	5744.920	5725 to 5850	Pass
				NV	5744.920	5725 to 5850	Pass
				HV	5744.920	5725 to 5850	Pass
			-30	NV	5744.920	5725 to 5850	Pass
			-20	NV	5744.920	5725 to 5850	Pass
			-10	NV	5744.980	5725 to 5850	Pass
			0	NV	5744.840	5725 to 5850	Pass
			10	NV	5744.780	5725 to 5850	Pass
			30	NV	5744.980	5725 to 5850	Pass
			40	NV	5744.940	5725 to 5850	Pass
			50	NV	5744.940	5725 to 5850	Pass
		5785	20	LV	5784.860	5725 to 5850	Pass
				NV	5784.960	5725 to 5850	Pass
				HV	5784.960	5725 to 5850	Pass
			-30	NV	5784.960	5725 to 5850	Pass
			-20	NV	5785.000	5725 to 5850	Pass
			-10	NV	5784.920	5725 to 5850	Pass
			0	NV	5784.880	5725 to 5850	Pass
			10	NV	5784.920	5725 to 5850	Pass
			30	NV	5784.920	5725 to 5850	Pass
			40	NV	5784.880	5725 to 5850	Pass
			50	NV	5784.940	5725 to 5850	Pass
		5825	20	LV	5824.900	5725 to 5850	Pass
				NV	5824.880	5725 to 5850	Pass
				HV	5824.880	5725 to 5850	Pass
			-30	NV	5824.900	5725 to 5850	Pass
			-20	NV	5824.820	5725 to 5850	Pass
			-10	NV	5824.980	5725 to 5850	Pass
			0	NV	5824.960	5725 to 5850	Pass
			10	NV	5824.980	5725 to 5850	Pass
			30	NV	5824.860	5725 to 5850	Pass
			40	NV	5824.840	5725 to 5850	Pass
			50	NV	5824.860	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	LV	5189.920	5150 to 5250	Pass
				NV	5189.960	5150 to 5250	Pass
				HV	5190.000	5150 to 5250	Pass
			-30	NV	5189.920	5150 to 5250	Pass
			-20	NV	5189.960	5150 to 5250	Pass
			-10	NV	5189.840	5150 to 5250	Pass
			0	NV	5189.960	5150 to 5250	Pass
			10	NV	5190.040	5150 to 5250	Pass
			30	NV	5190.000	5150 to 5250	Pass
			40	NV	5189.920	5150 to 5250	Pass



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			50	NV	5190.000	5150 to 5250	Pass
		5230	20	LV	5229.880	5150 to 5250	Pass
				NV	5229.960	5150 to 5250	Pass
				HV	5229.960	5150 to 5250	Pass
			-30	NV	5229.960	5150 to 5250	Pass
			-20	NV	5229.920	5150 to 5250	Pass
			-10	NV	5229.880	5150 to 5250	Pass
			0	NV	5229.920	5150 to 5250	Pass
			10	NV	5229.960	5150 to 5250	Pass
			30	NV	5230.000	5150 to 5250	Pass
			40	NV	5229.960	5150 to 5250	Pass
			50	NV	5229.920	5150 to 5250	Pass
		5755	20	LV	5754.920	5725 to 5850	Pass
				NV	5755.040	5725 to 5850	Pass
				HV	5754.960	5725 to 5850	Pass
			-30	NV	5754.960	5725 to 5850	Pass
			-20	NV	5755.040	5725 to 5850	Pass
			-10	NV	5754.920	5725 to 5850	Pass
			0	NV	5754.920	5725 to 5850	Pass
			10	NV	5754.920	5725 to 5850	Pass
			30	NV	5754.880	5725 to 5850	Pass
			40	NV	5755.040	5725 to 5850	Pass
			50	NV	5755.080	5725 to 5850	Pass
		5795	20	LV	5795.000	5725 to 5850	Pass
				NV	5794.960	5725 to 5850	Pass
				HV	5794.880	5725 to 5850	Pass
			-30	NV	5794.920	5725 to 5850	Pass
			-20	NV	5794.960	5725 to 5850	Pass
			-10	NV	5794.880	5725 to 5850	Pass
			0	NV	5795.040	5725 to 5850	Pass
			10	NV	5794.840	5725 to 5850	Pass
			30	NV	5794.880	5725 to 5850	Pass
			40	NV	5794.960	5725 to 5850	Pass
			50	NV	5794.880	5725 to 5850	Pass

- End of the Report -

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