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Annex for 5G Wi-Fi BAND 1

Test Report No.: CTL2506266011-WF02

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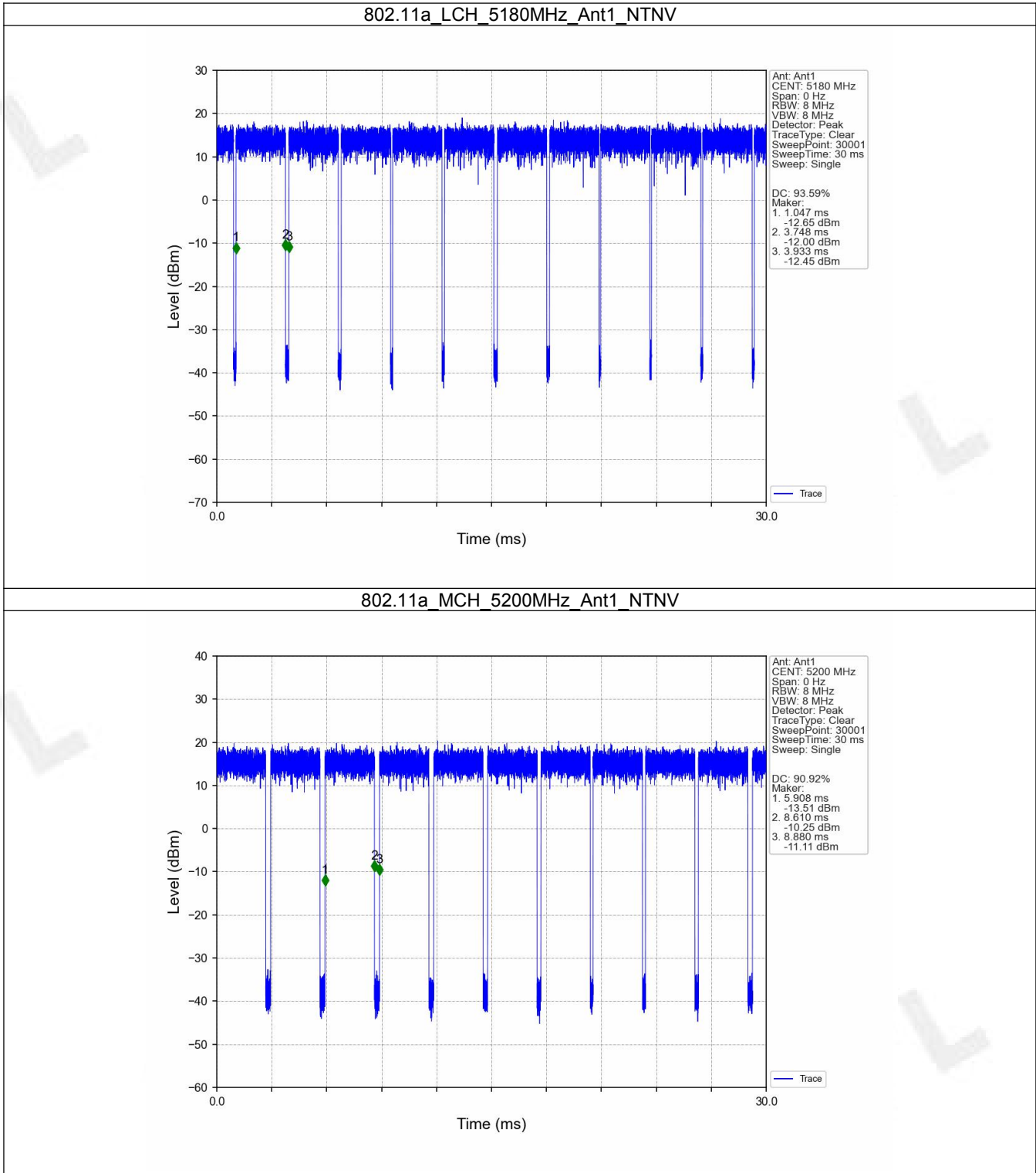
1. Duty Cycle**1.1 Test Result****1.1.1 Ant1**

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.701	2.886	93.59	0.29	3.68
		5200	/	/	2.702	2.972	90.92	0.41	4.03
		5240	/	/	2.702	2.946	91.72	0.38	3.20
802.11n (HT20)	SISO	5180	/	/	2.514	2.716	92.56	0.34	3.81
		5200	/	/	2.514	3.334	75.40	1.23	21.35
		5240	/	/	2.513	2.706	92.87	0.32	3.87
802.11n (HT40)	SISO	5190	/	/	1.232	1.399	88.06	0.55	4.81
		5230	/	/	1.232	1.439	85.62	0.67	3.92
802.11ac (VHT20)	SISO	5180	/	/	2.522	2.725	92.55	0.34	2.84
		5200	/	/	2.522	2.734	92.25	0.35	4.49
		5240	/	/	2.522	2.716	92.86	0.32	4.20
802.11ac (VHT40)	SISO	5190	/	/	1.236	1.438	85.95	0.66	4.52
		5230	/	/	1.236	1.448	85.36	0.69	6.30
802.11ac (VHT80)	SISO	5210	/	/	0.596	0.763	78.11	1.07	10.48
802.11ax (HEW20)	SISO	5180	SU	/	1.917	2.184	87.77	0.57	3.40
		5200	SU	/	1.916	2.116	90.55	0.43	4.86
		5240	SU	/	1.917	2.125	90.21	0.45	3.59
802.11ax (HEW40)	SISO	5190	SU	/	0.979	1.195	81.92	0.87	5.97
		5230	SU	/	0.979	1.186	82.55	0.83	9.04
802.11ax (HEW80)	SISO	5210	SU	/	0.489	0.704	69.46	1.58	7.93

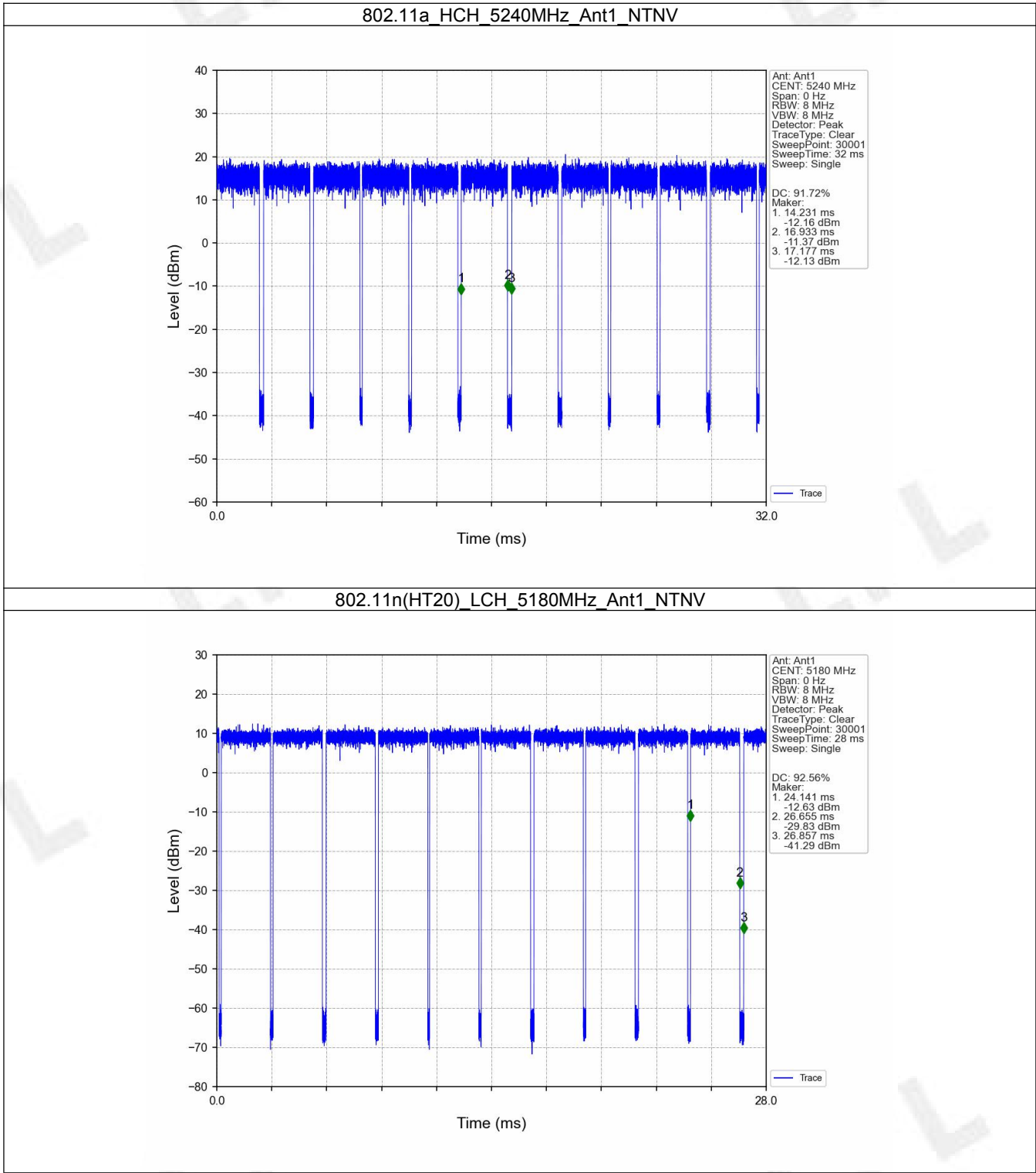
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1.2 Test Graph

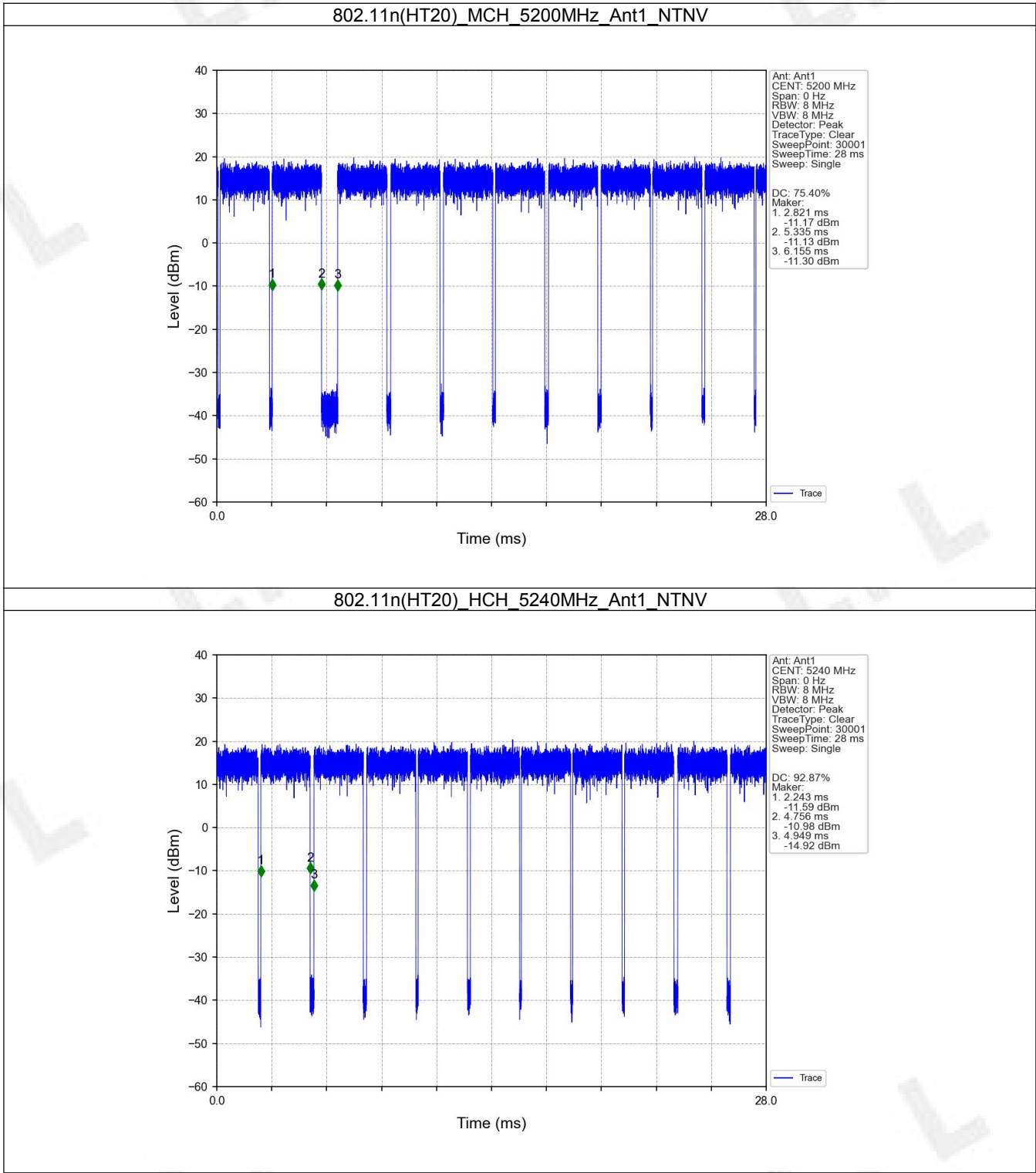
1.2.1 Ant1



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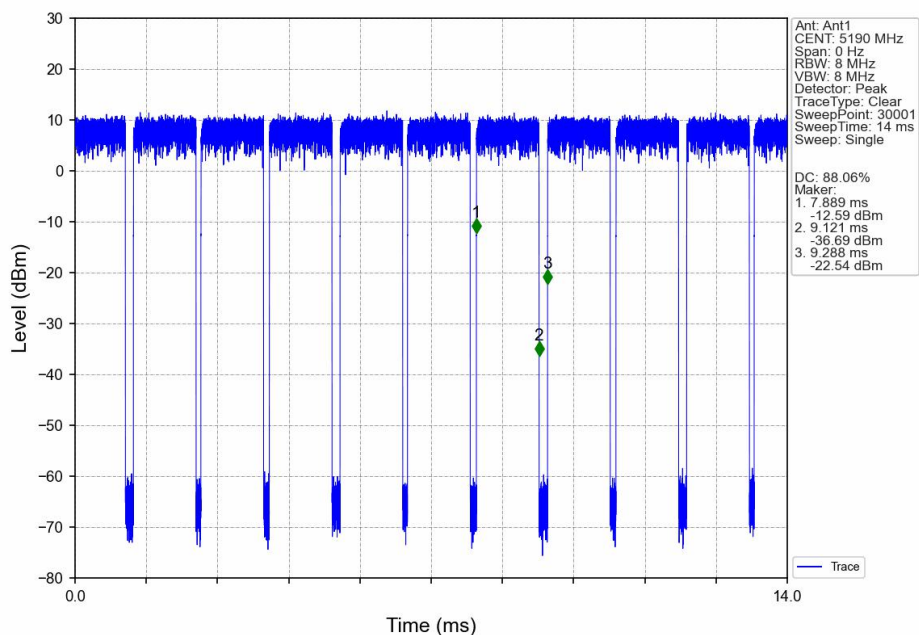


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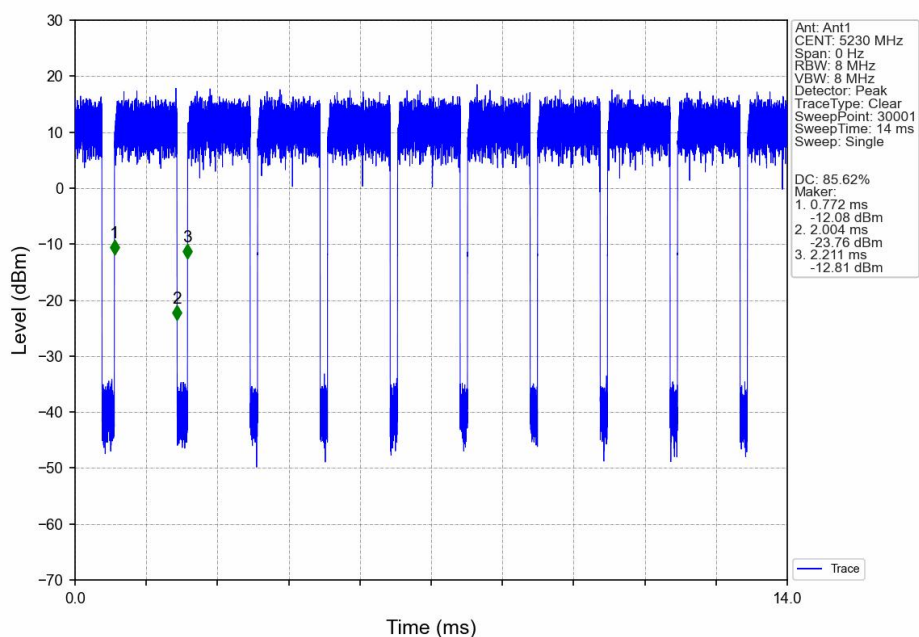


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802.11n(HT40) LCH 5190MHz_Ant1_NTNV

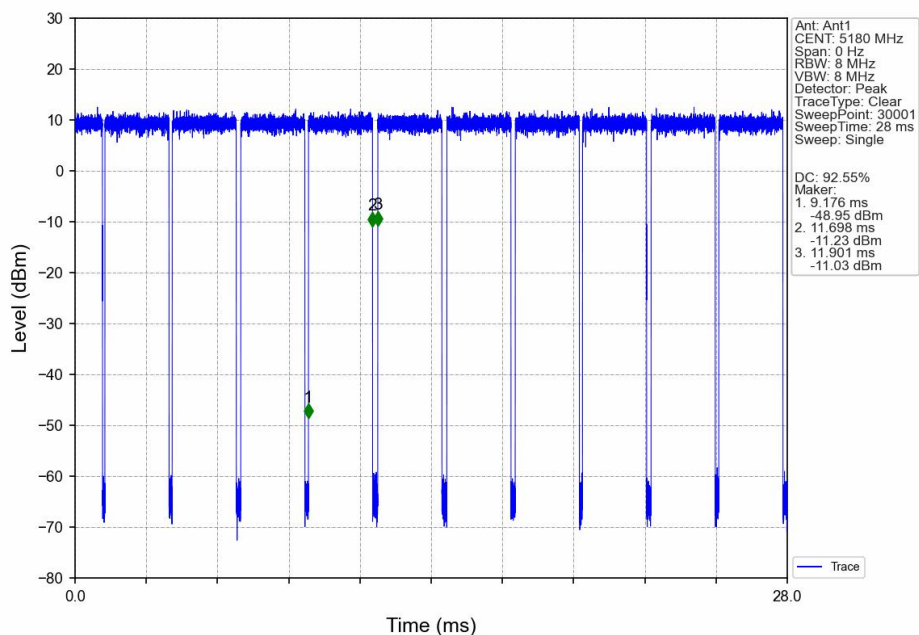


802.11n(HT40) HCH 5230MHz_Ant1_NTNV

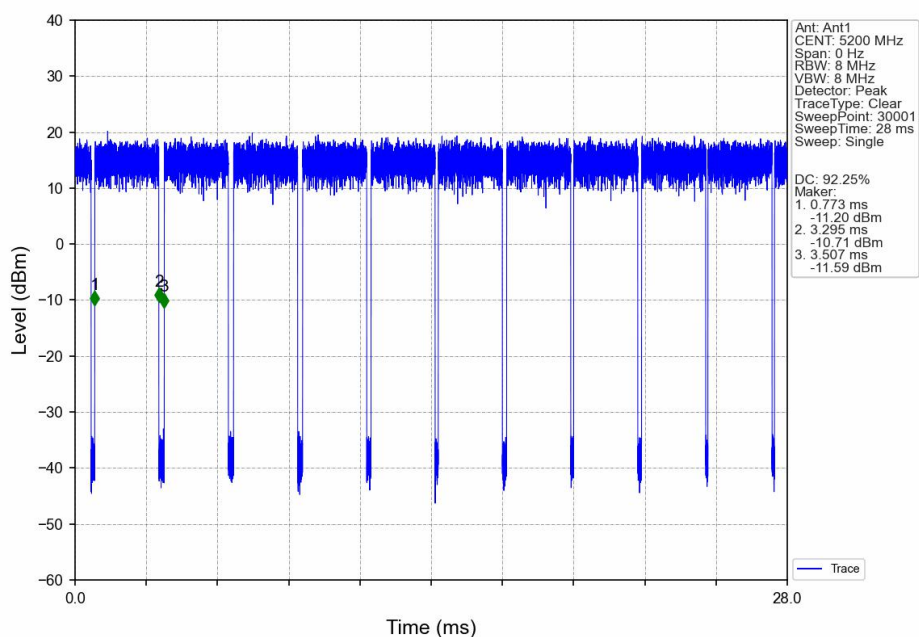


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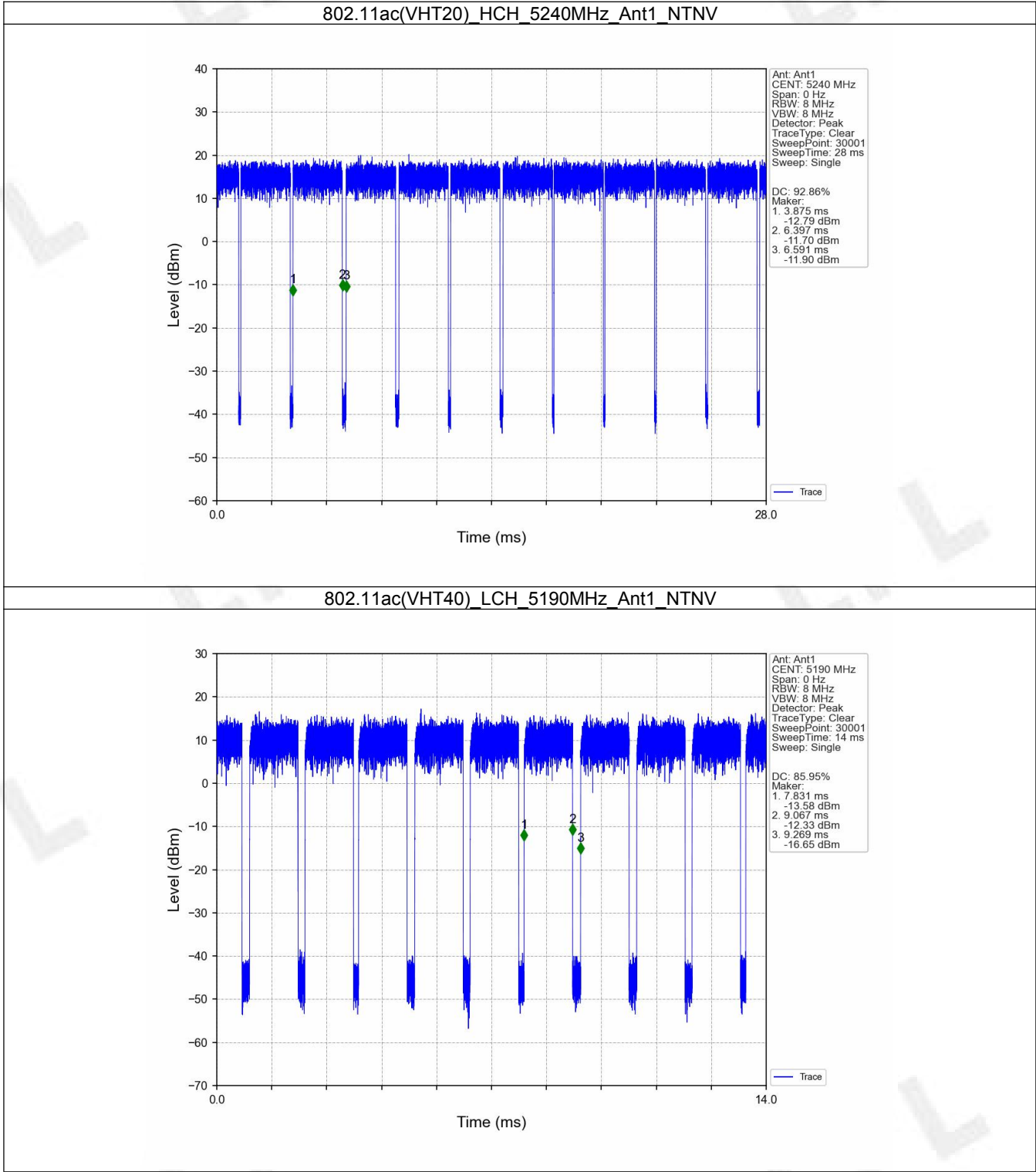
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV

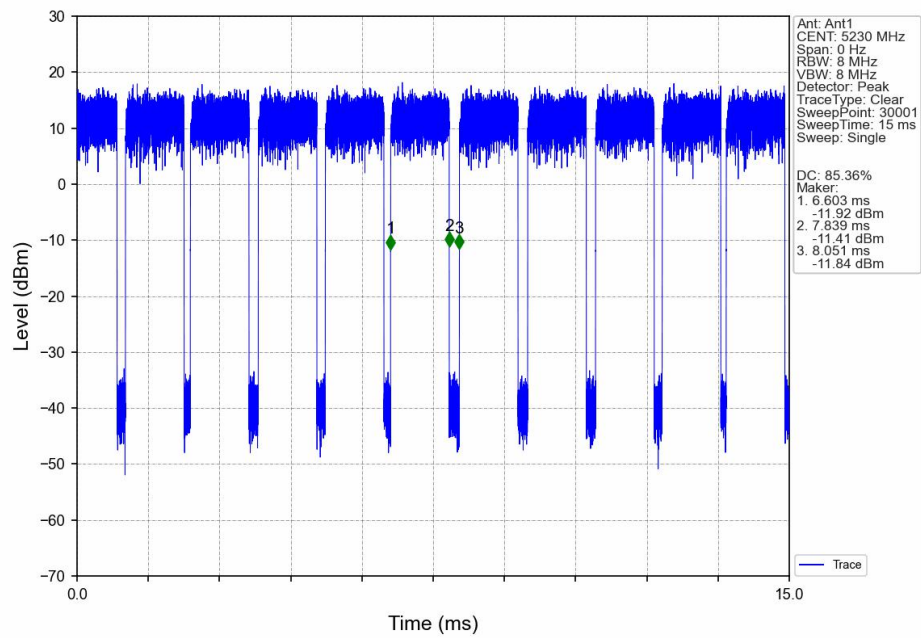


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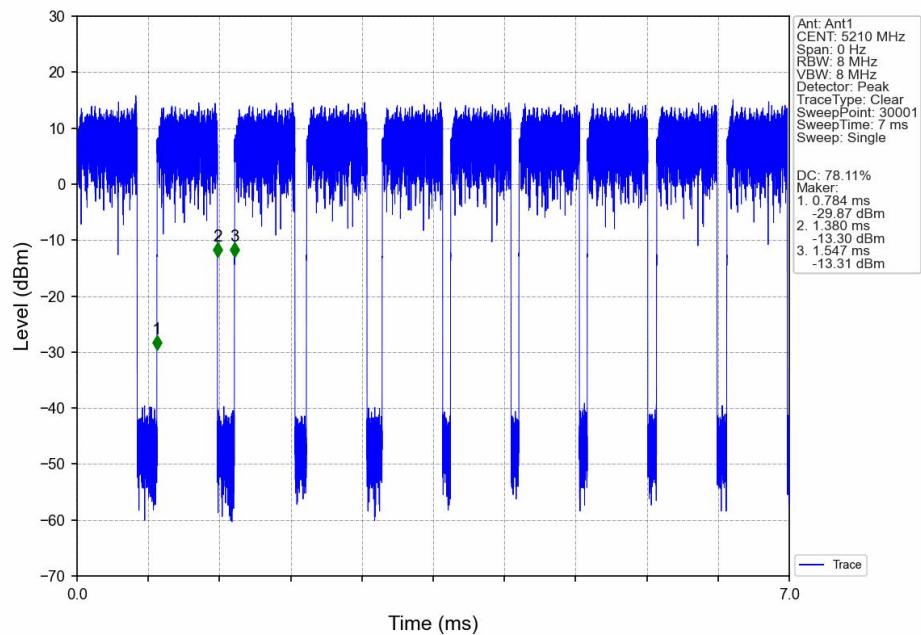


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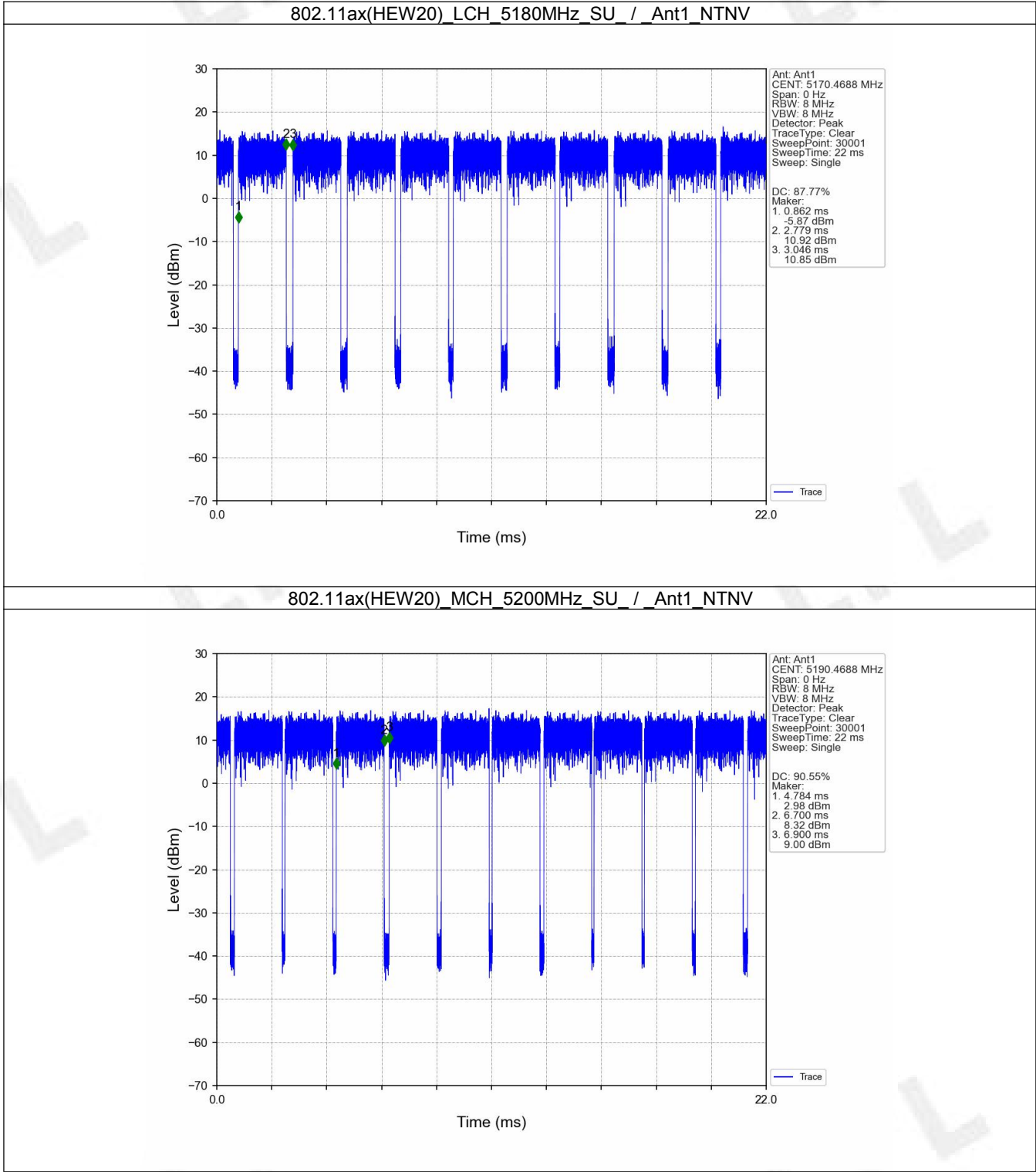
802.11ac(VHT40) HCH 5230MHz Ant1_NTNV



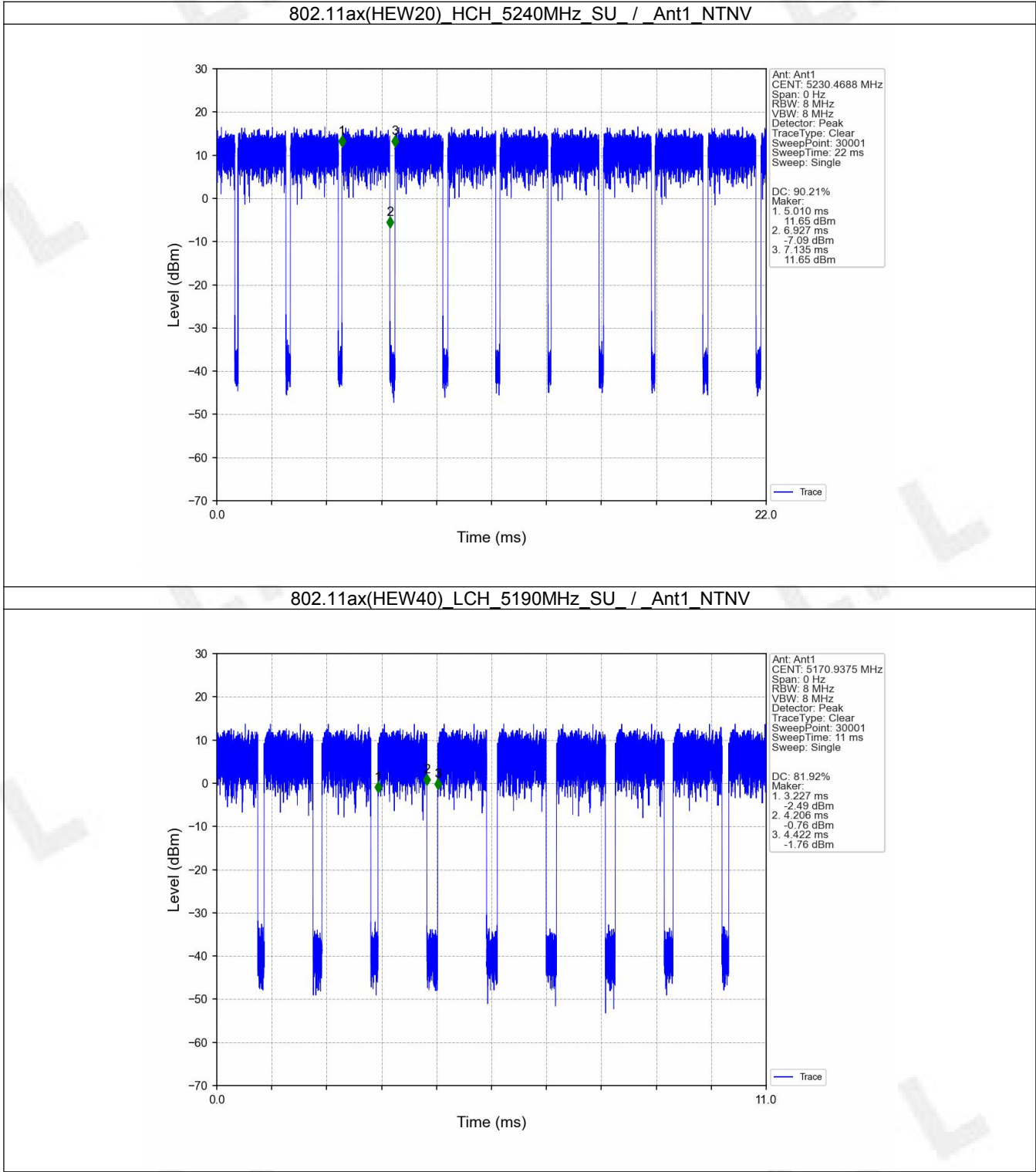
802.11ac(VHT80) MCH 5210MHz Ant1_NTNV



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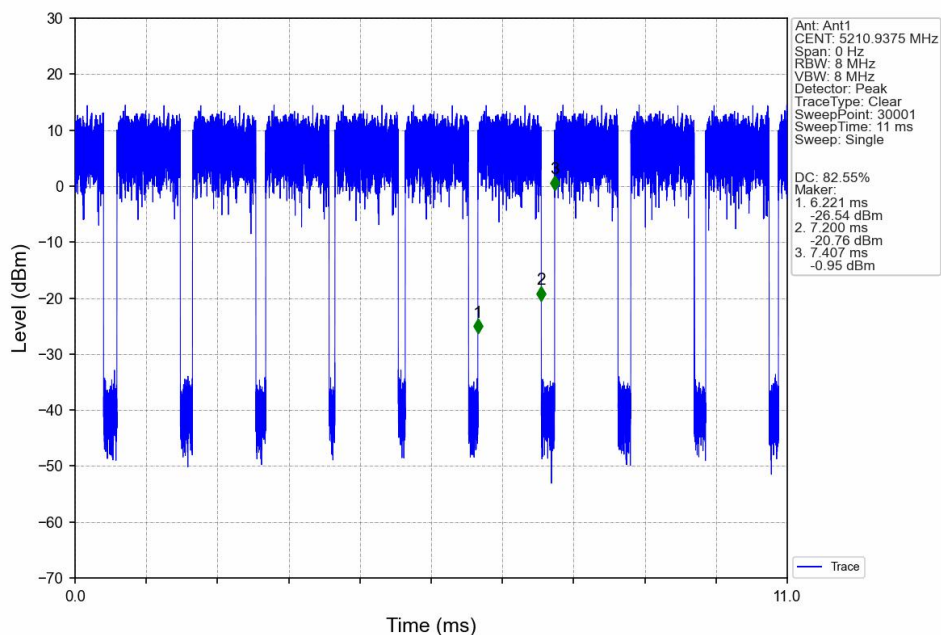


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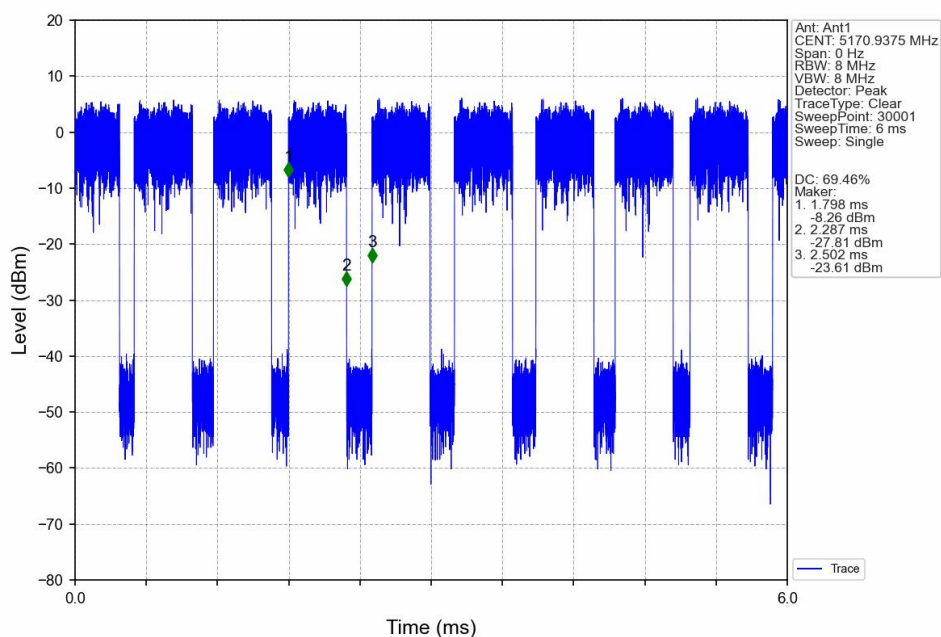


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802.11ax(HEW40)_HCH_5230MHz_SU_ / Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_SU_ / Ant1_NTNV



FCC ID: SMQUWM2

2. Bandwidth**2.1 Test Result****2.1.1 OBW**

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	17.635	/	Pass
		5200	/	/	1	17.617	/	Pass
		5240	/	/	1	17.604	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	18.516	/	Pass
		5200	/	/	1	18.482	/	Pass
		5240	/	/	1	18.501	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	37.387	/	Pass
		5230	/	/	1	37.157	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	18.594	/	Pass
		5200	/	/	1	18.562	/	Pass
		5240	/	/	1	18.524	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	37.227	/	Pass
		5230	/	/	1	37.277	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	75.569	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	19.273	/	Pass
		5200	SU	/	1	19.355	/	Pass
		5240	SU	/	1	19.316	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	38.212	/	Pass
		5230	SU	/	1	38.264	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	77.031	/	Pass

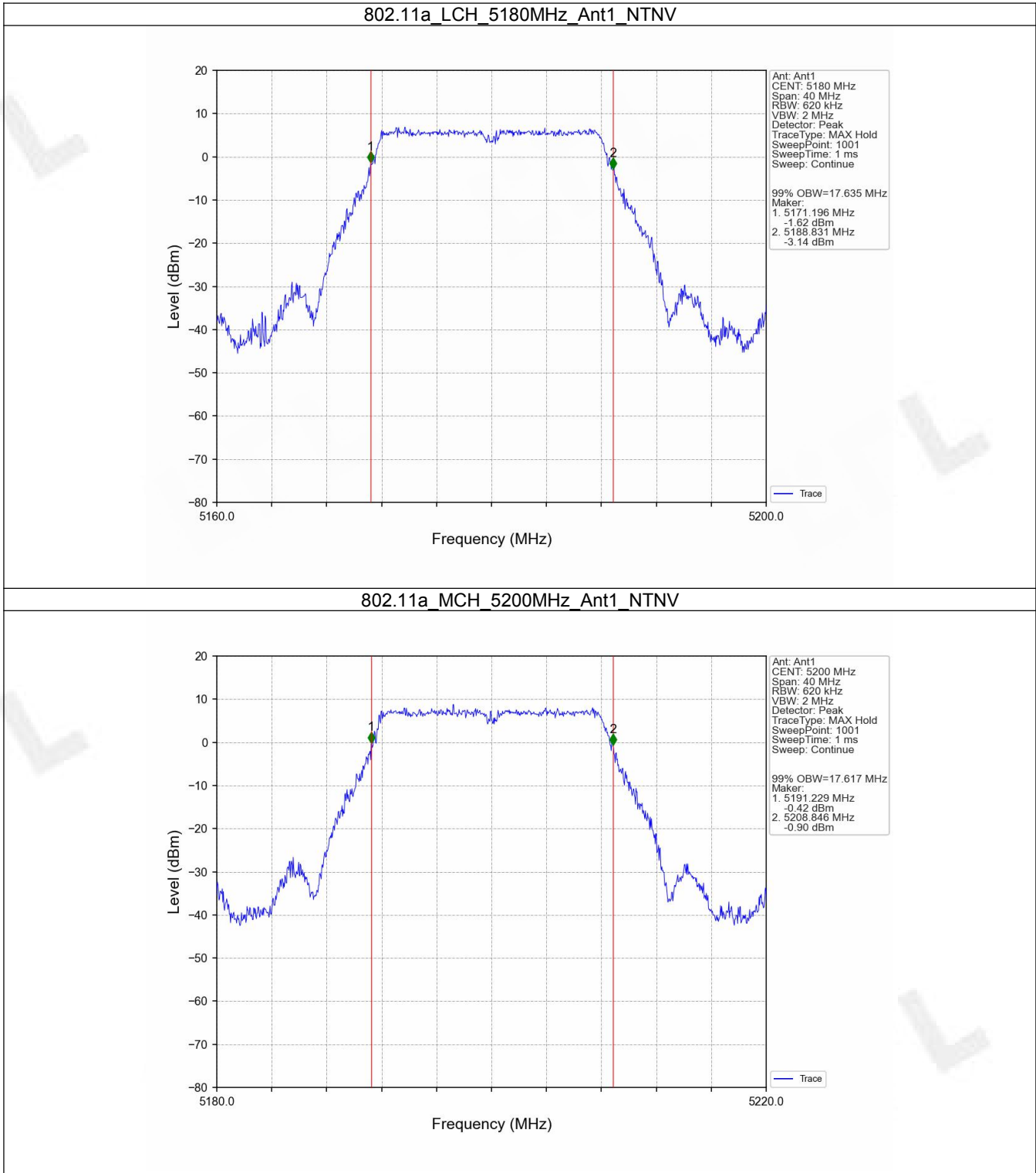
2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	22.525	/	Pass
		5200	/	/	1	22.134	/	Pass
		5240	/	/	1	22.365	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	22.827	/	Pass
		5200	/	/	1	22.875	/	Pass
		5240	/	/	1	22.956	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	42.929	/	Pass
		5230	/	/	1	42.592	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	23.175	/	Pass
		5200	/	/	1	22.642	/	Pass
		5240	/	/	1	22.422	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	42.818	/	Pass
		5230	/	/	1	42.649	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	81.646	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	22.052	/	Pass
		5200	SU	/	1	22.132	/	Pass
		5240	SU	/	1	22.389	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	41.914	/	Pass
		5230	SU	/	1	41.934	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	81.917	/	Pass

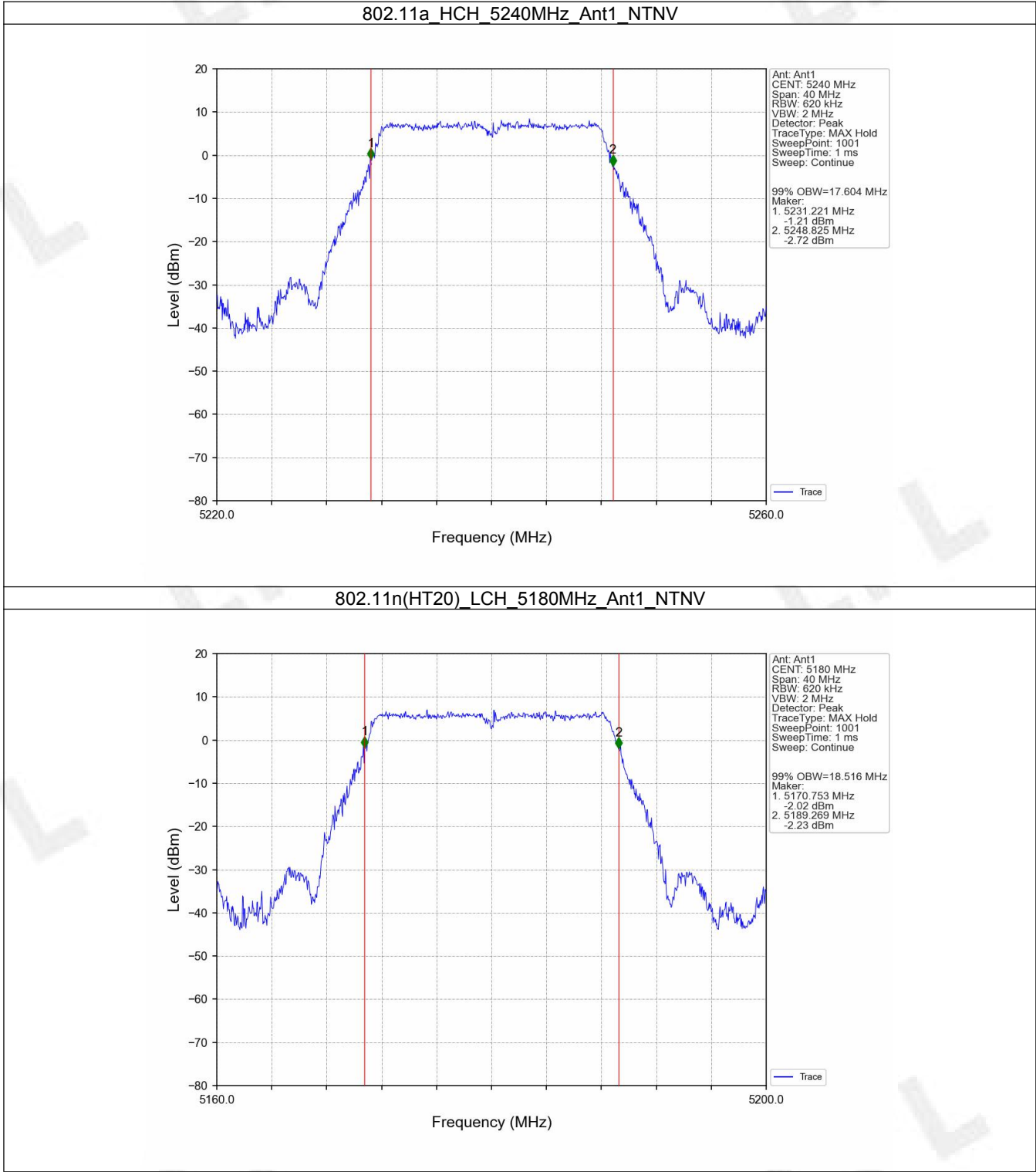
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2.2 Test Graph

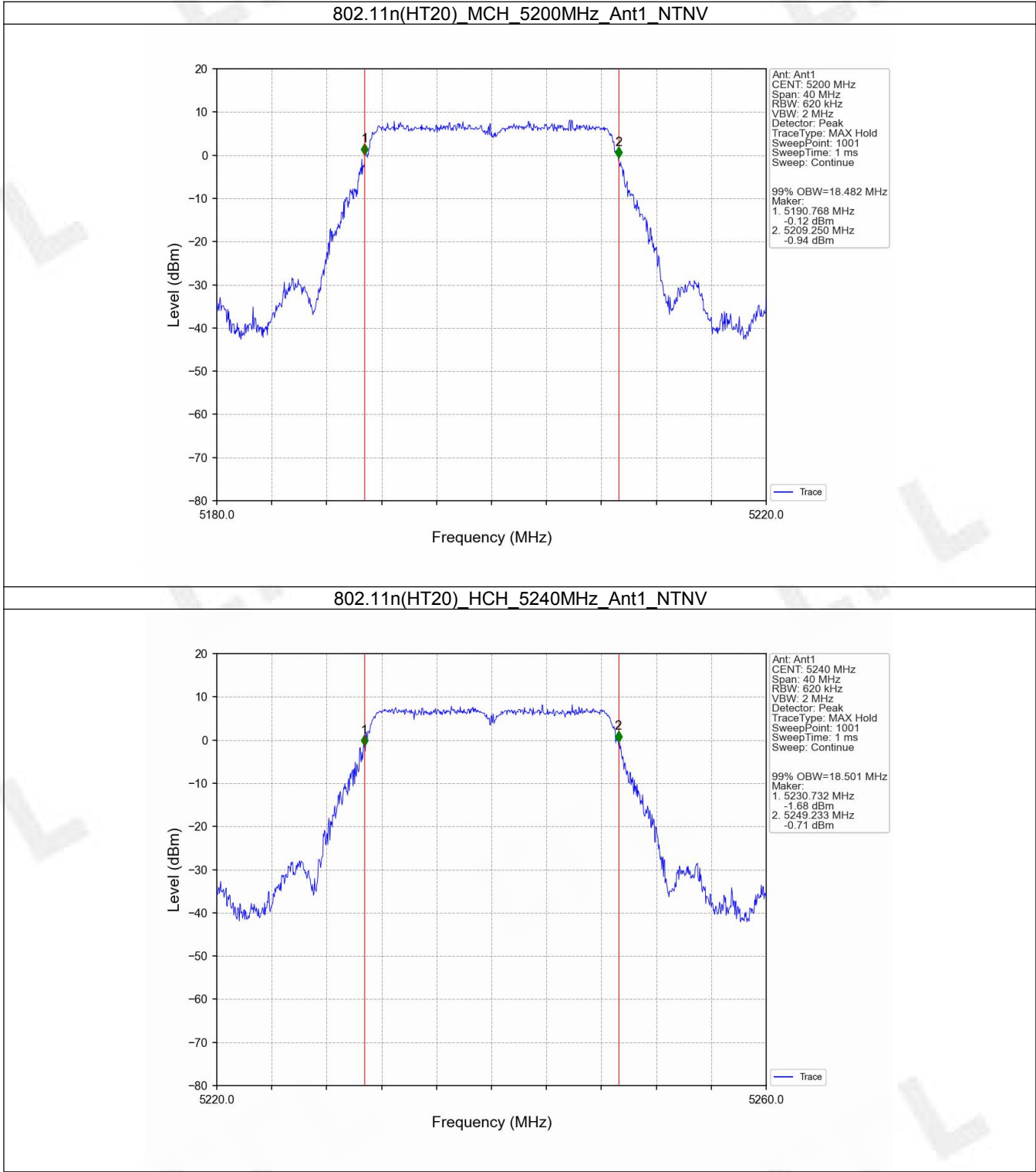
2.2.1 OBW



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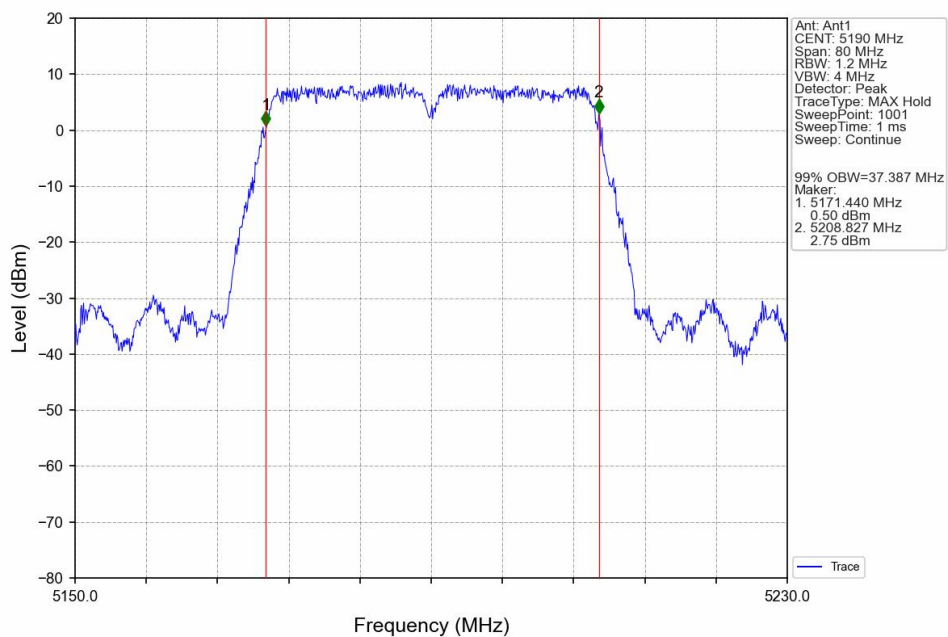


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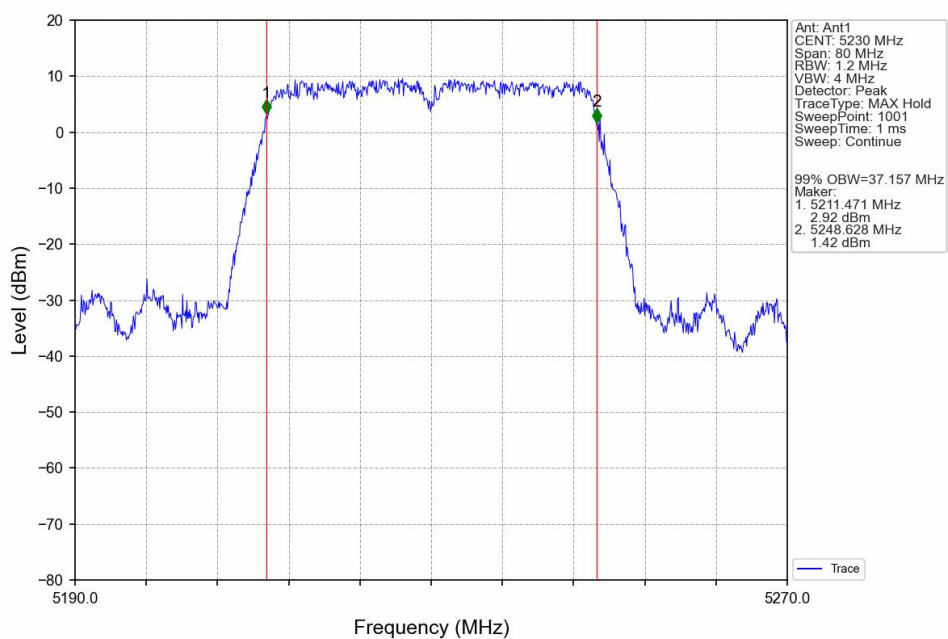


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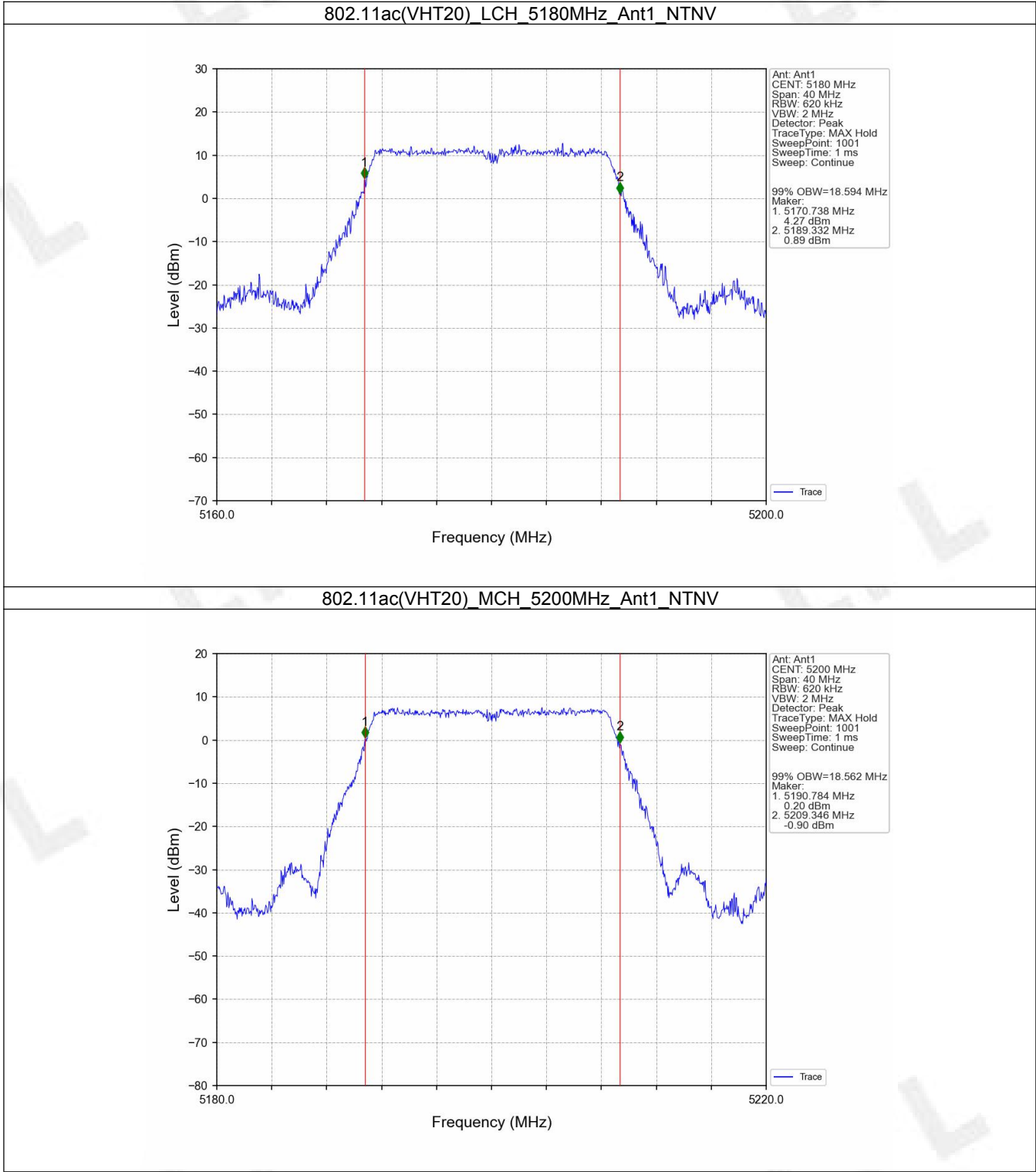
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



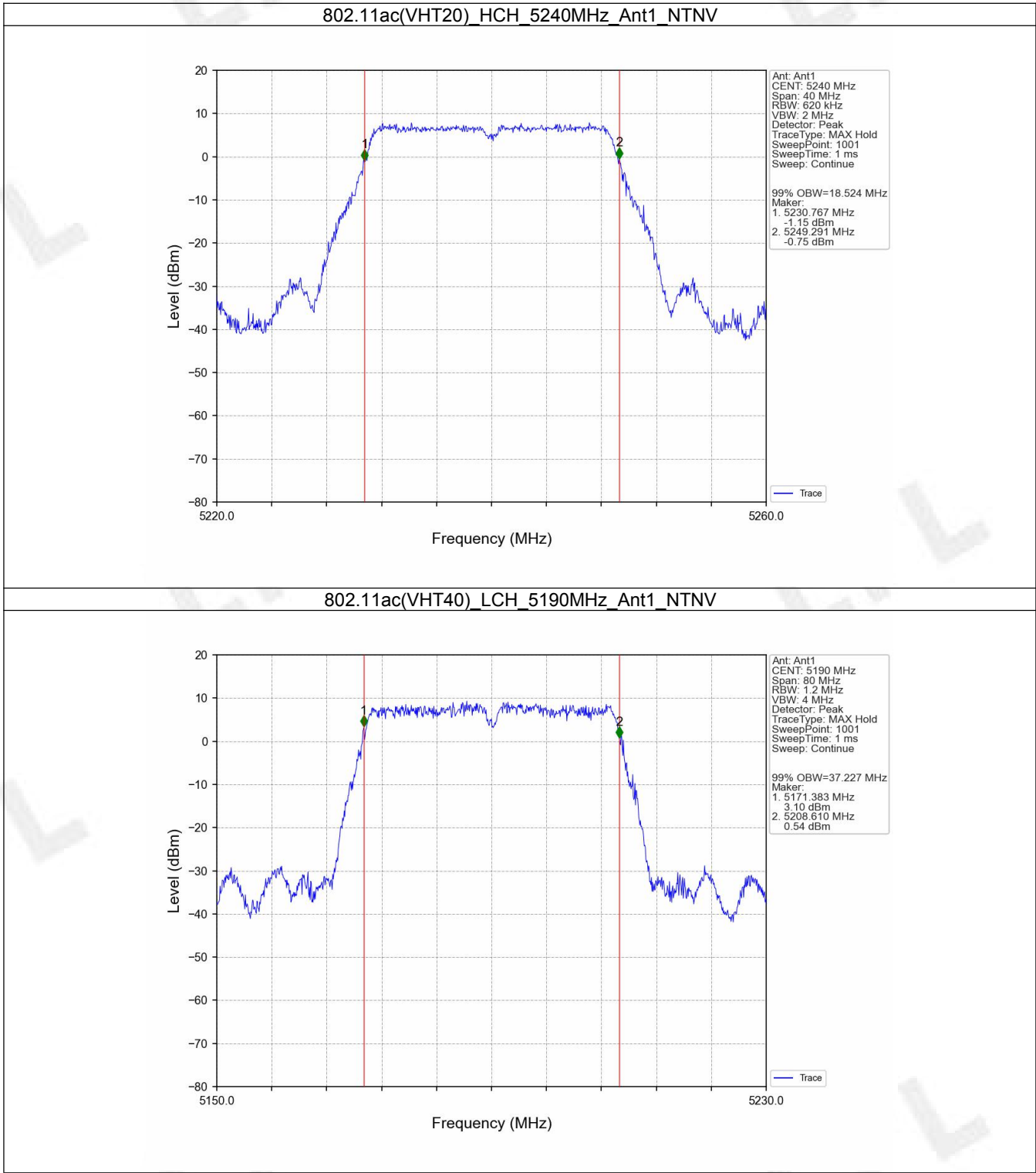
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



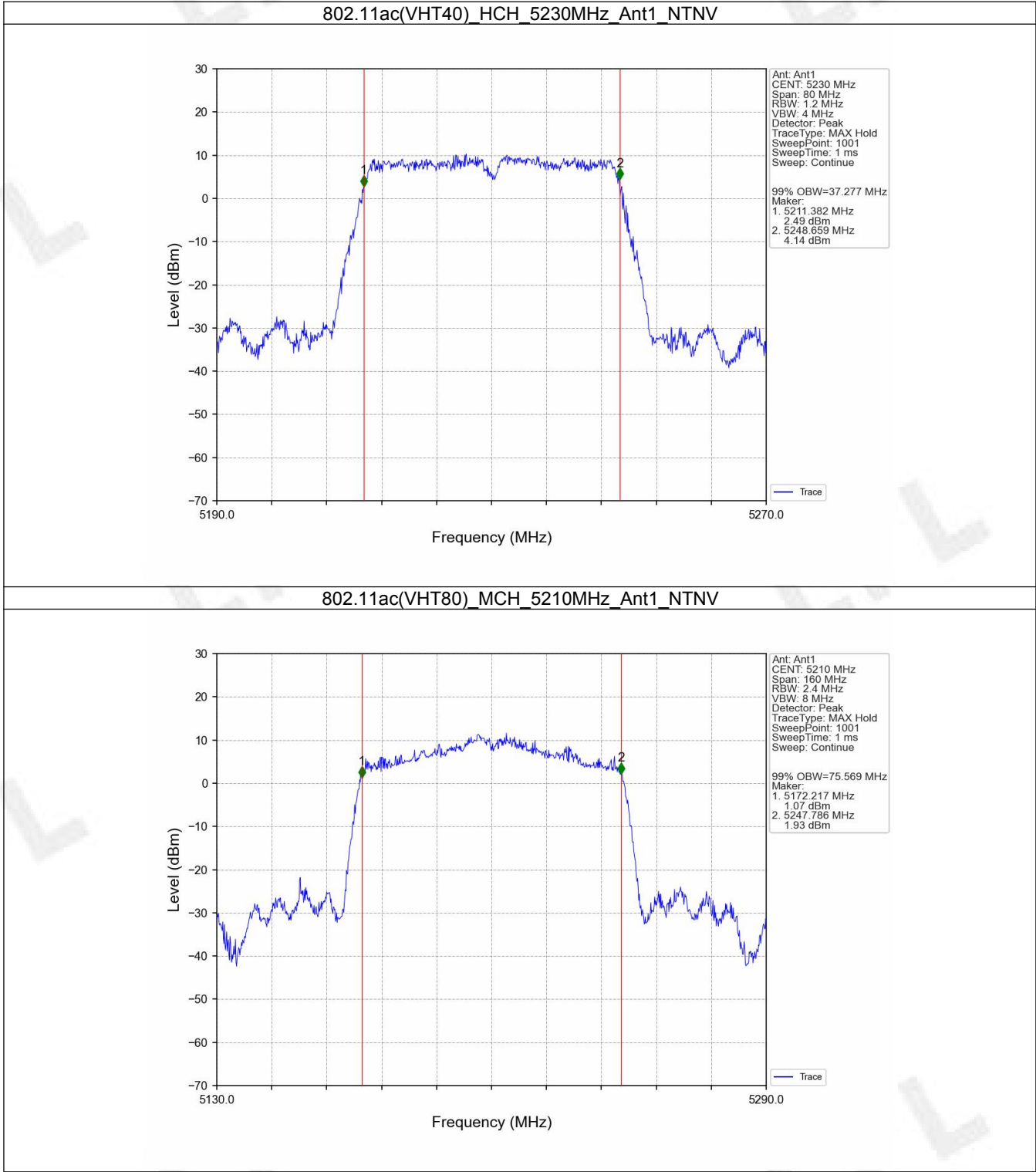
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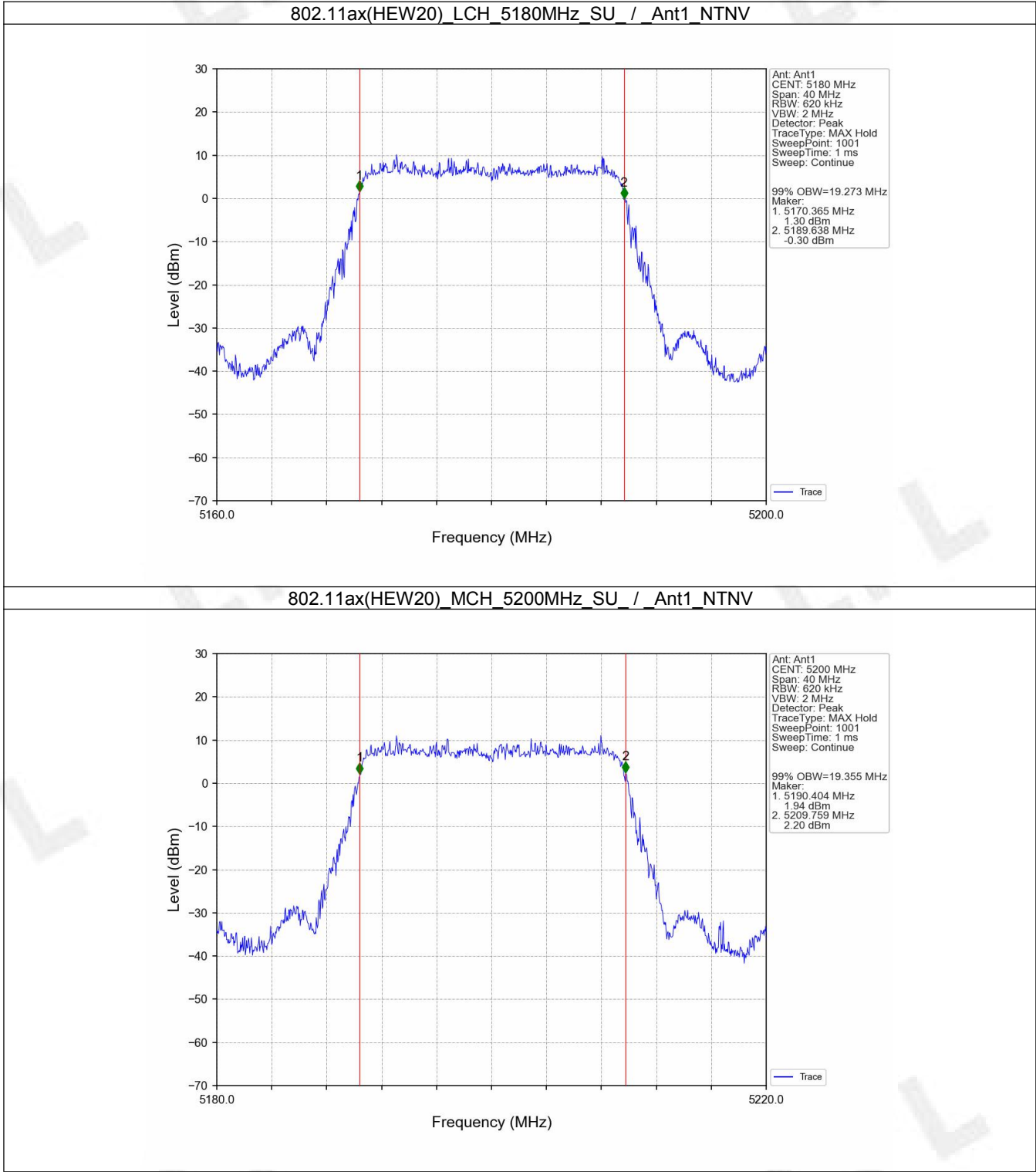
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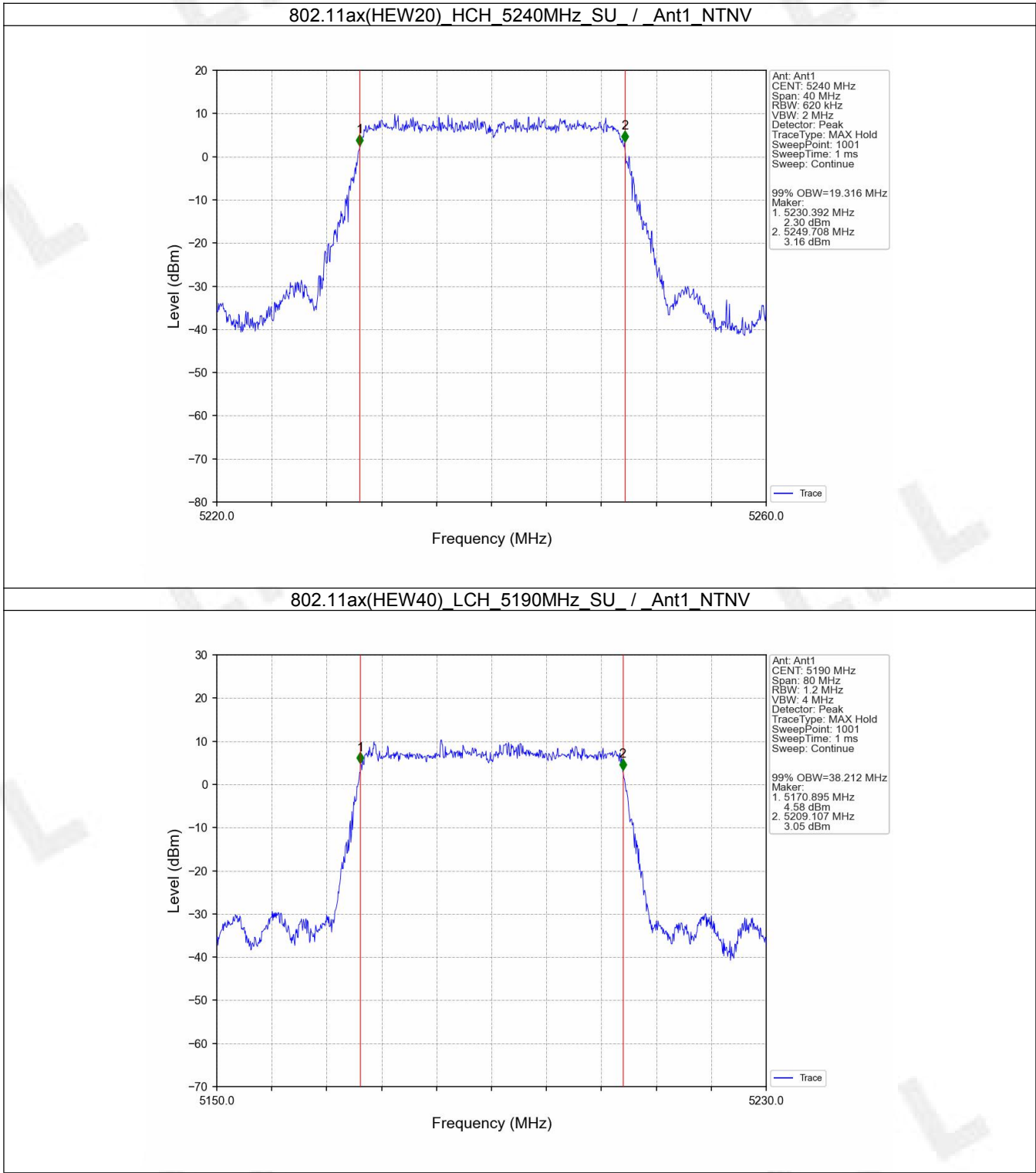
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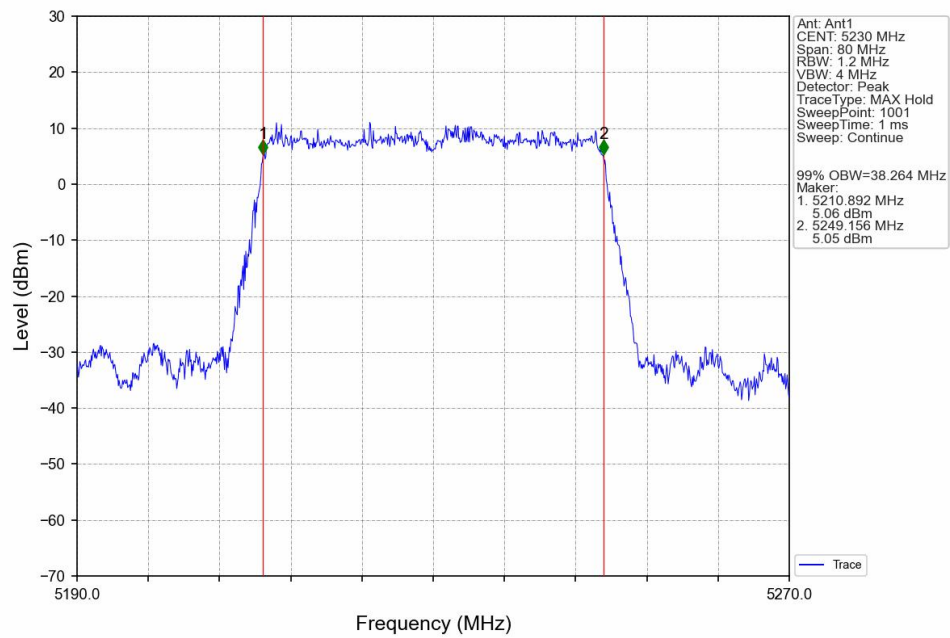


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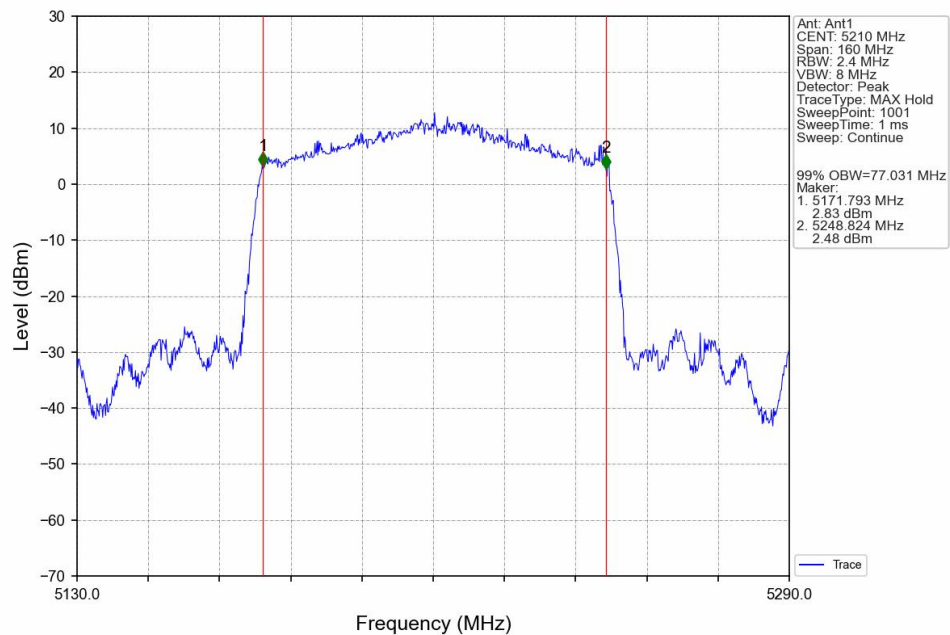


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802.11ax(HEW40)_HCH_5230MHz_SU_ / Ant1_NTNV

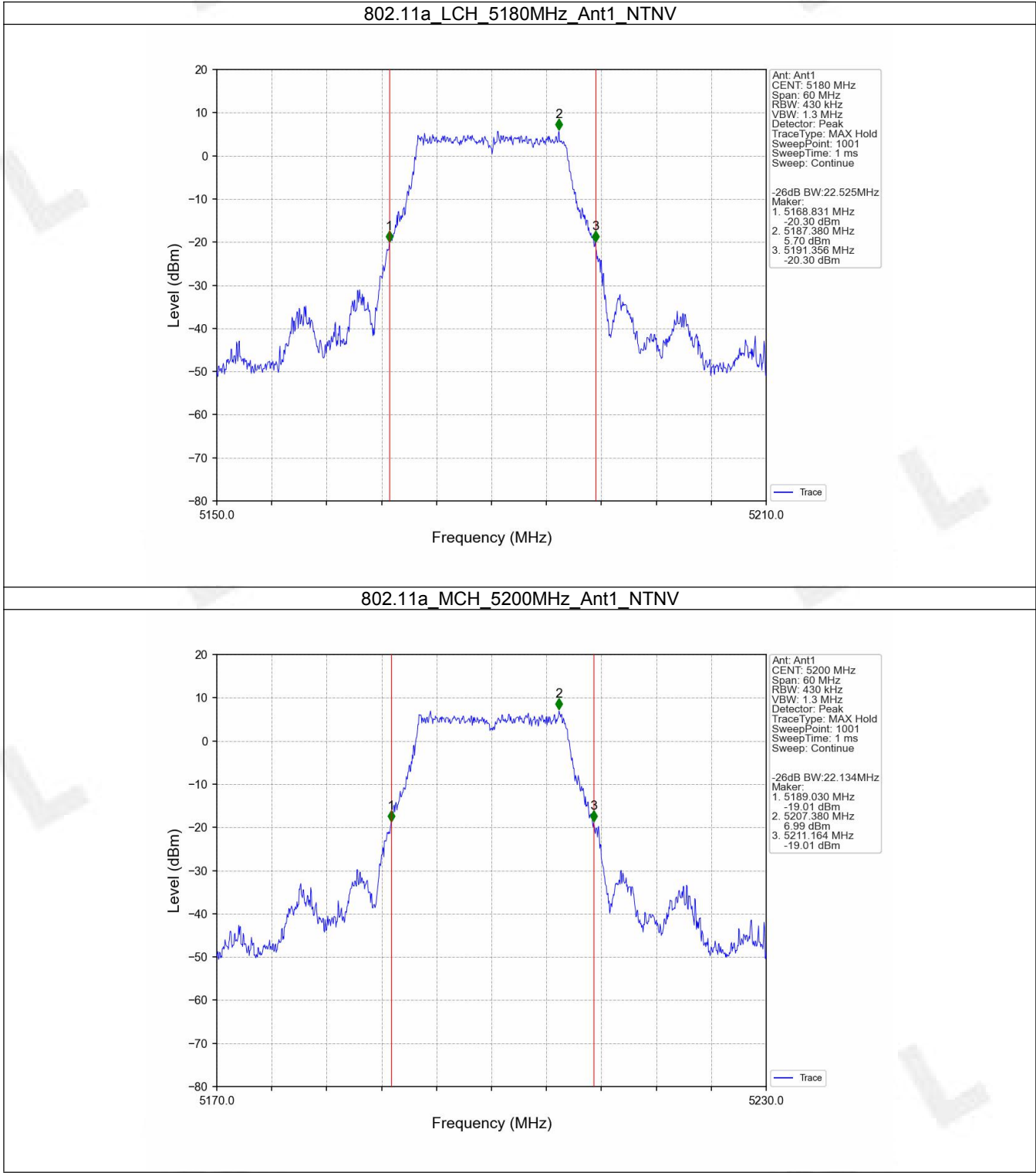


802.11ax(HEW80)_MCH_5210MHz_SU_ / Ant1_NTNV

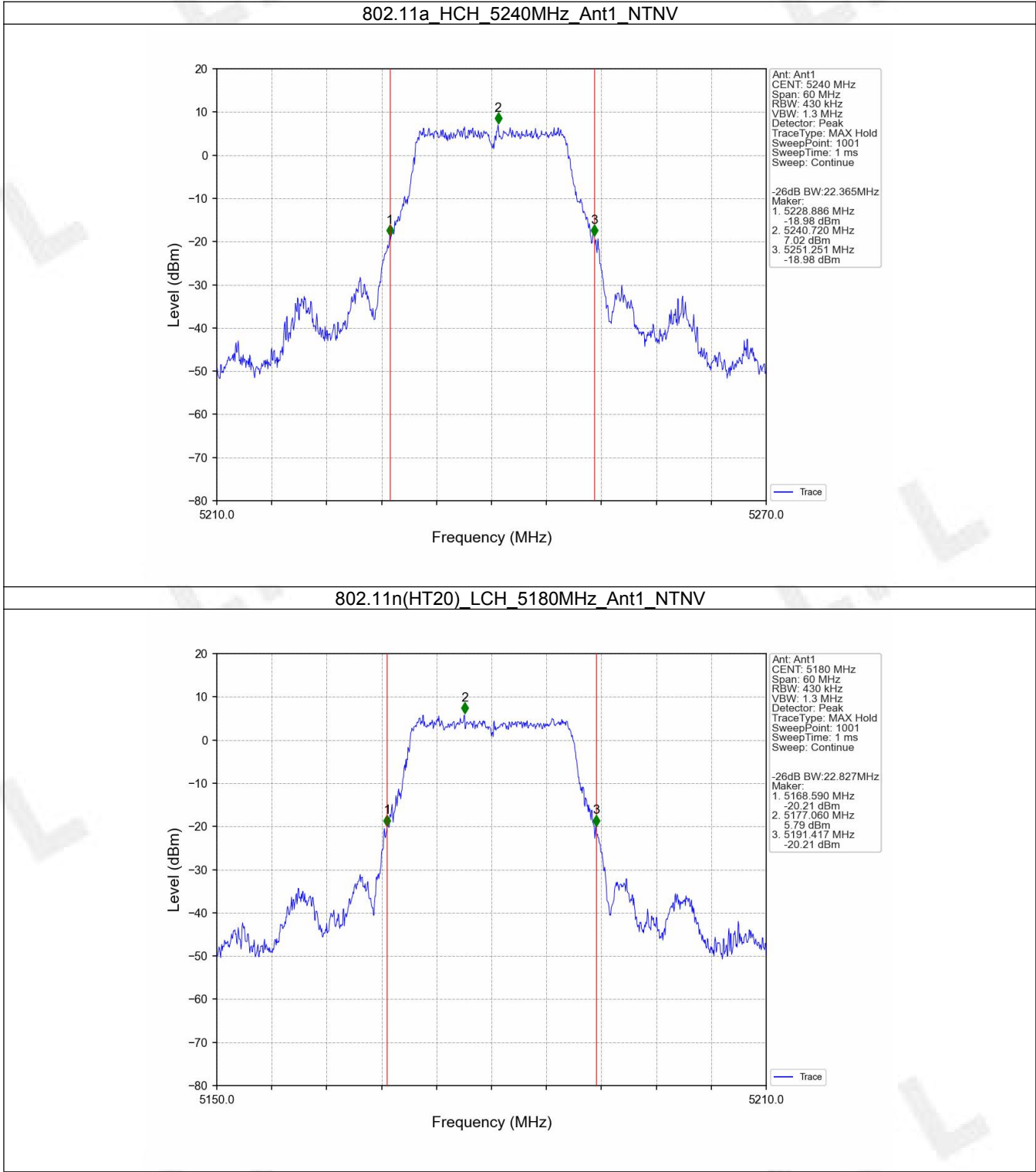


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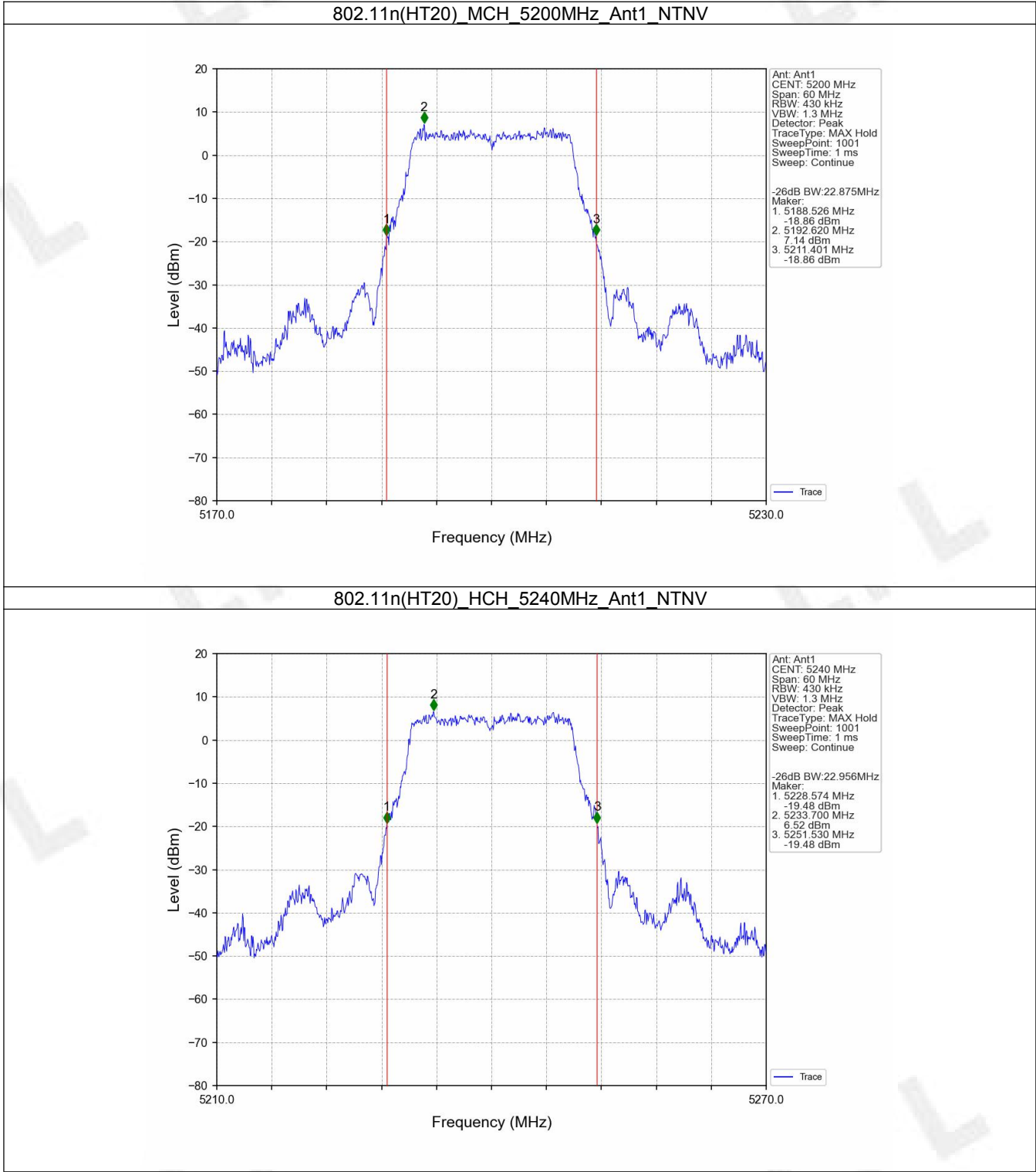
2.2.2 26dB BW



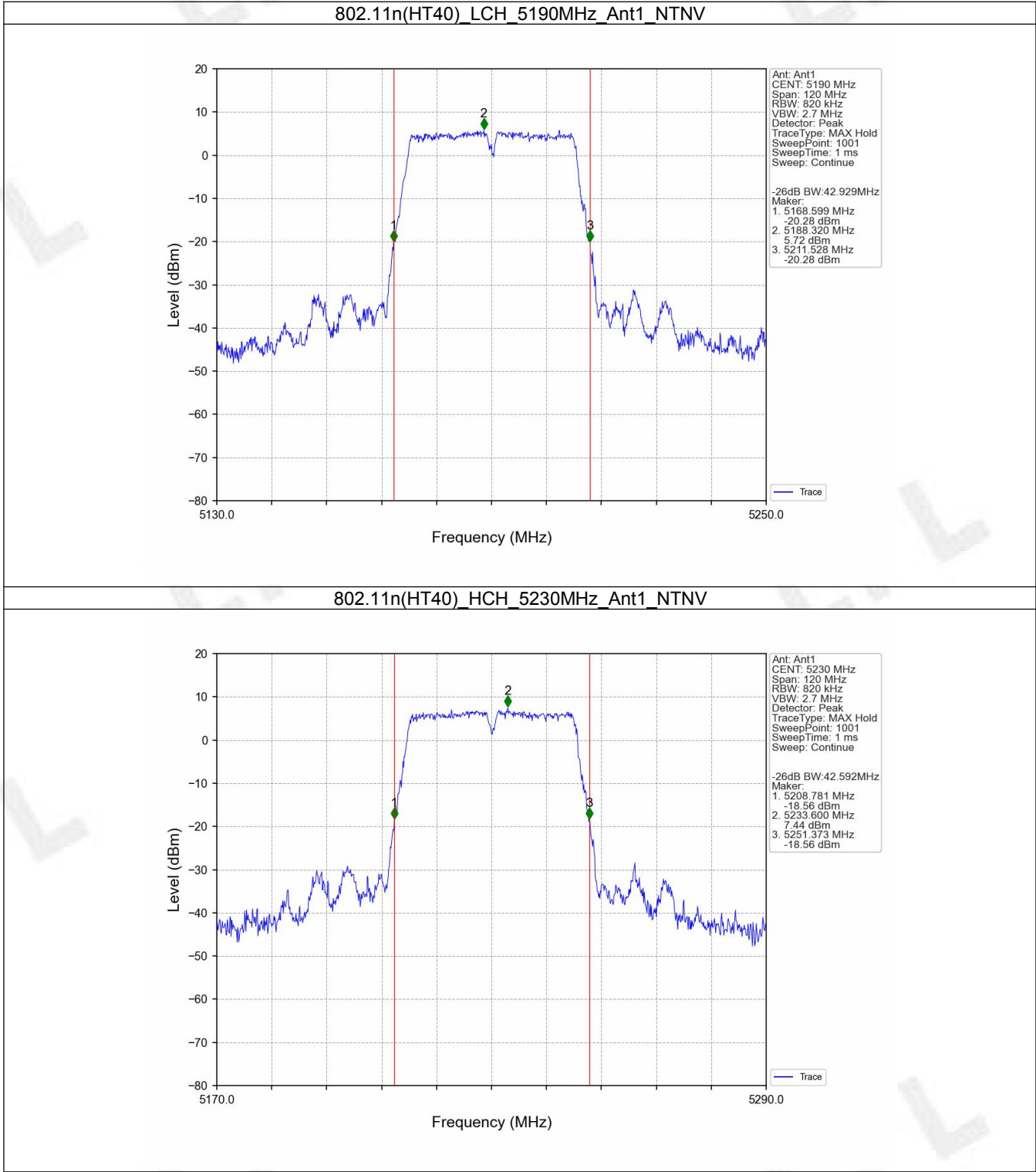
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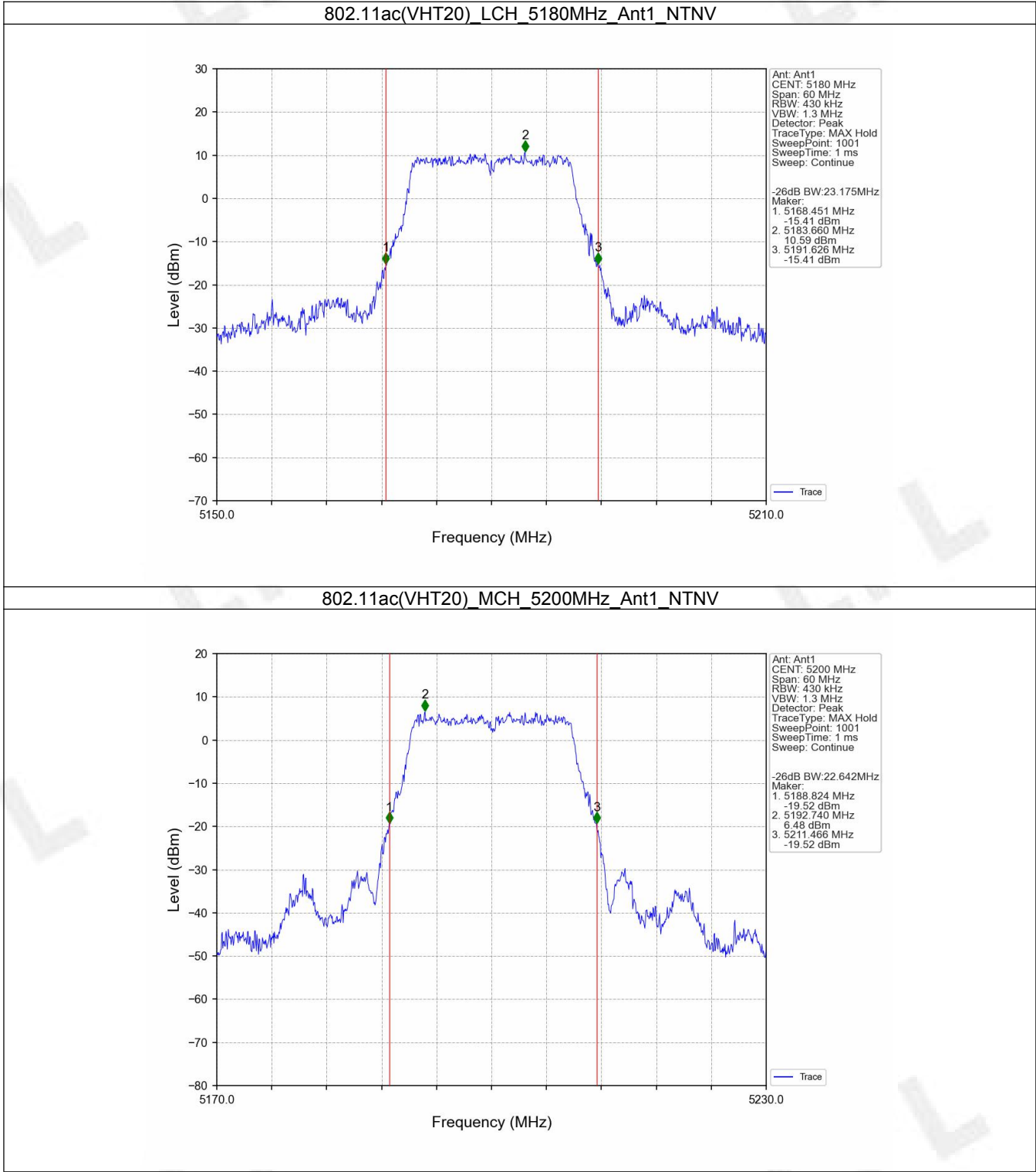
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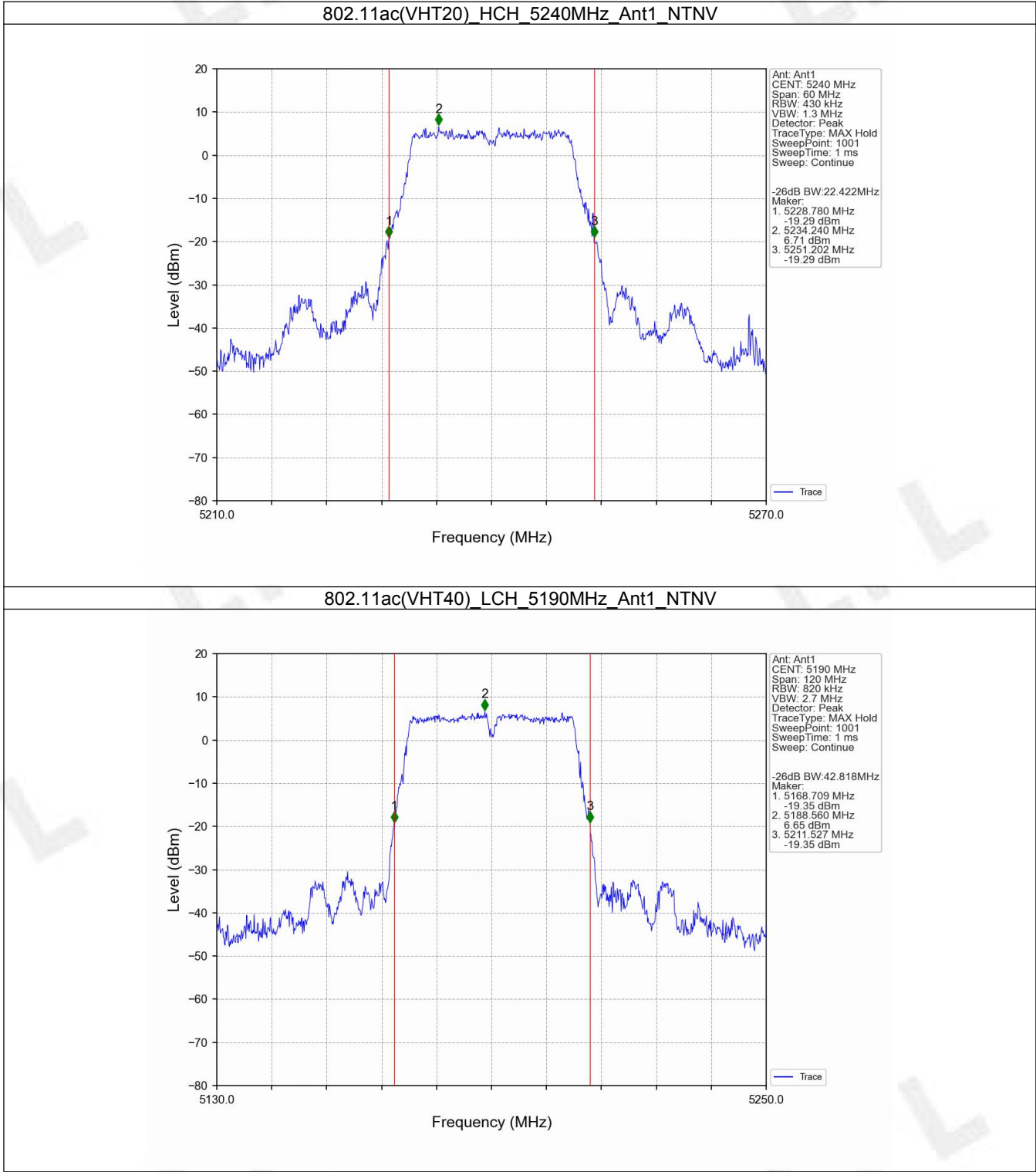
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