



Shenzhen CTL Testing Technology Co., Ltd.

Fl. A1, Bldg. A3, No. 2533 GuanGuang Road, Fenghuang Community

Fenghuang Street, Guangming District Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

Annex for 5G Wi-Fi BAND 2A

Test Report No.: CTL2603252101-WF04

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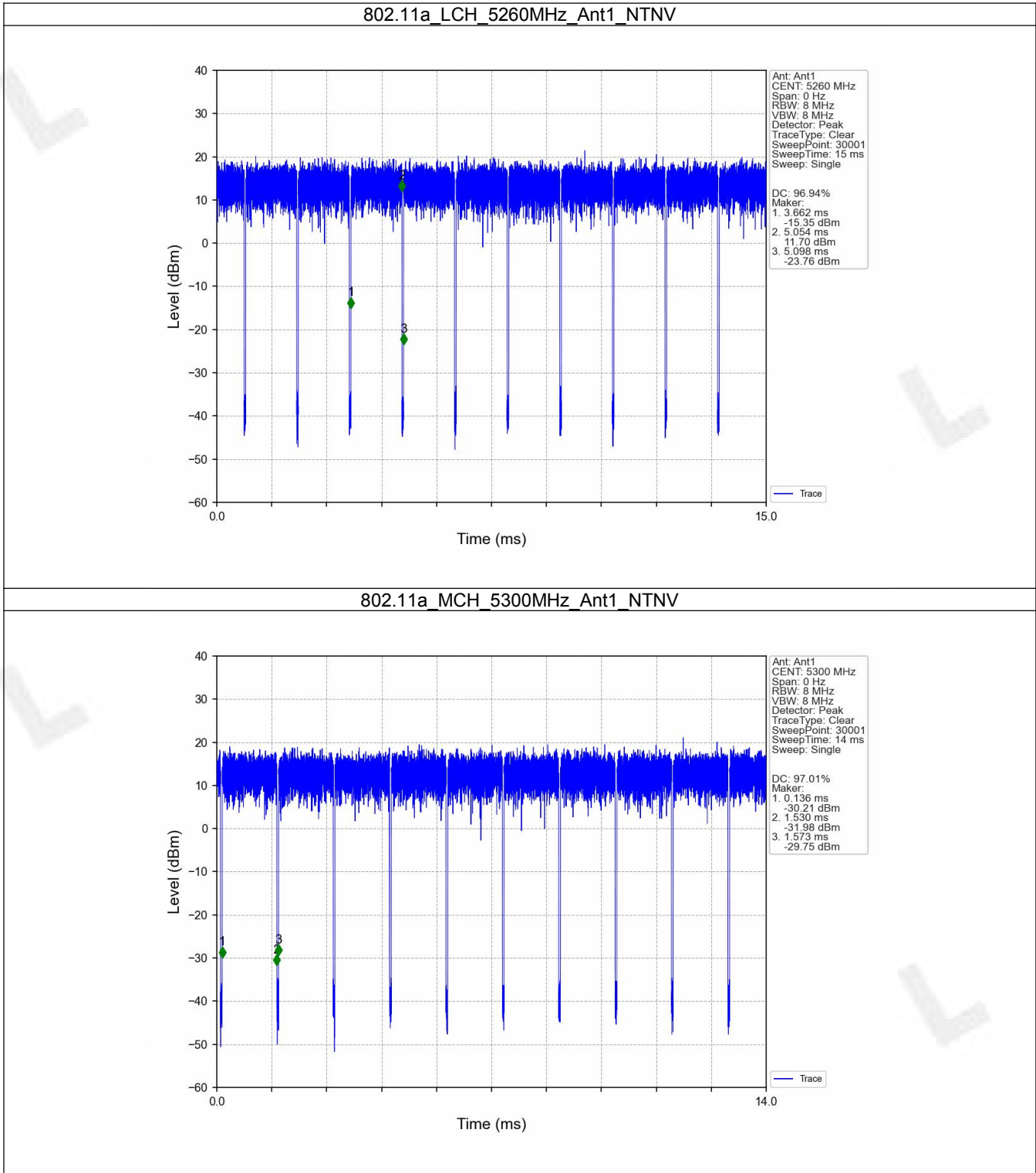
1. Duty Cycle**1.1 Test Result****1.1.1 Ant1**

Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5260	1.392	1.436	96.94	0.14	0.10
		5300	1.394	1.437	97.01	0.13	0.06
		5320	1.393	1.437	96.94	0.14	0.06
802.11n (HT20)	SISO	5260	1.302	1.345	96.80	0.14	0.07
		5300	1.301	1.344	96.80	0.14	0.04
		5320	1.302	1.345	96.80	0.14	0.03
802.11n (HT40)	SISO	5270	0.649	0.692	93.79	0.28	0.04
		5310	0.649	0.692	93.79	0.28	0.03
802.11ac (VHT20)	SISO	5260	1.313	1.356	96.83	0.14	0.03
		5300	1.314	1.356	96.90	0.14	0.00
		5320	1.313	1.356	96.83	0.14	0.07
802.11ac (VHT40)	SISO	5270	0.654	0.696	93.97	0.27	0.04
		5310	0.653	0.697	93.69	0.28	0.13
802.11ac (VHT80)	SISO	5290	0.325	0.369	88.08	0.55	0.04

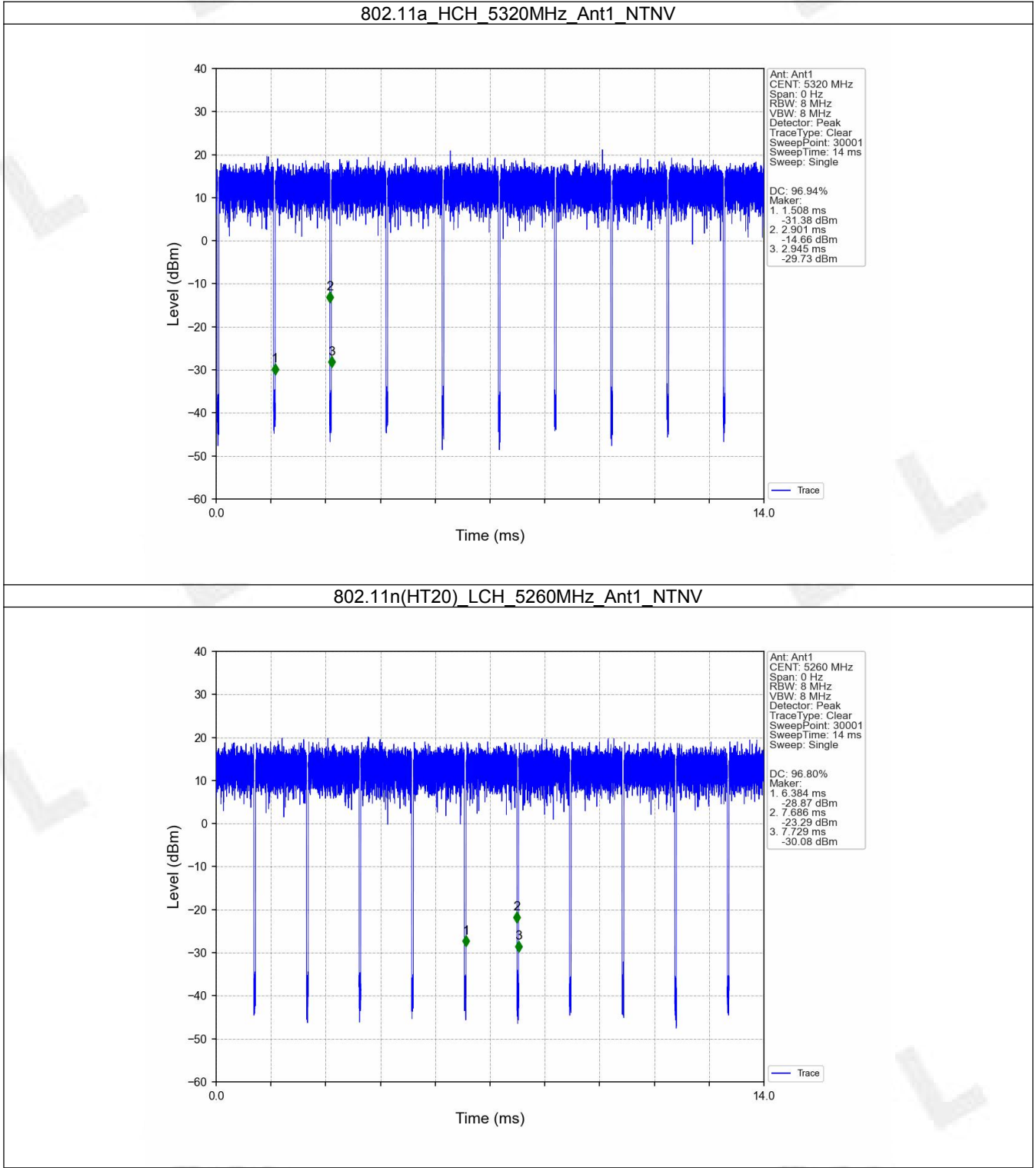
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1.2 Test Graph

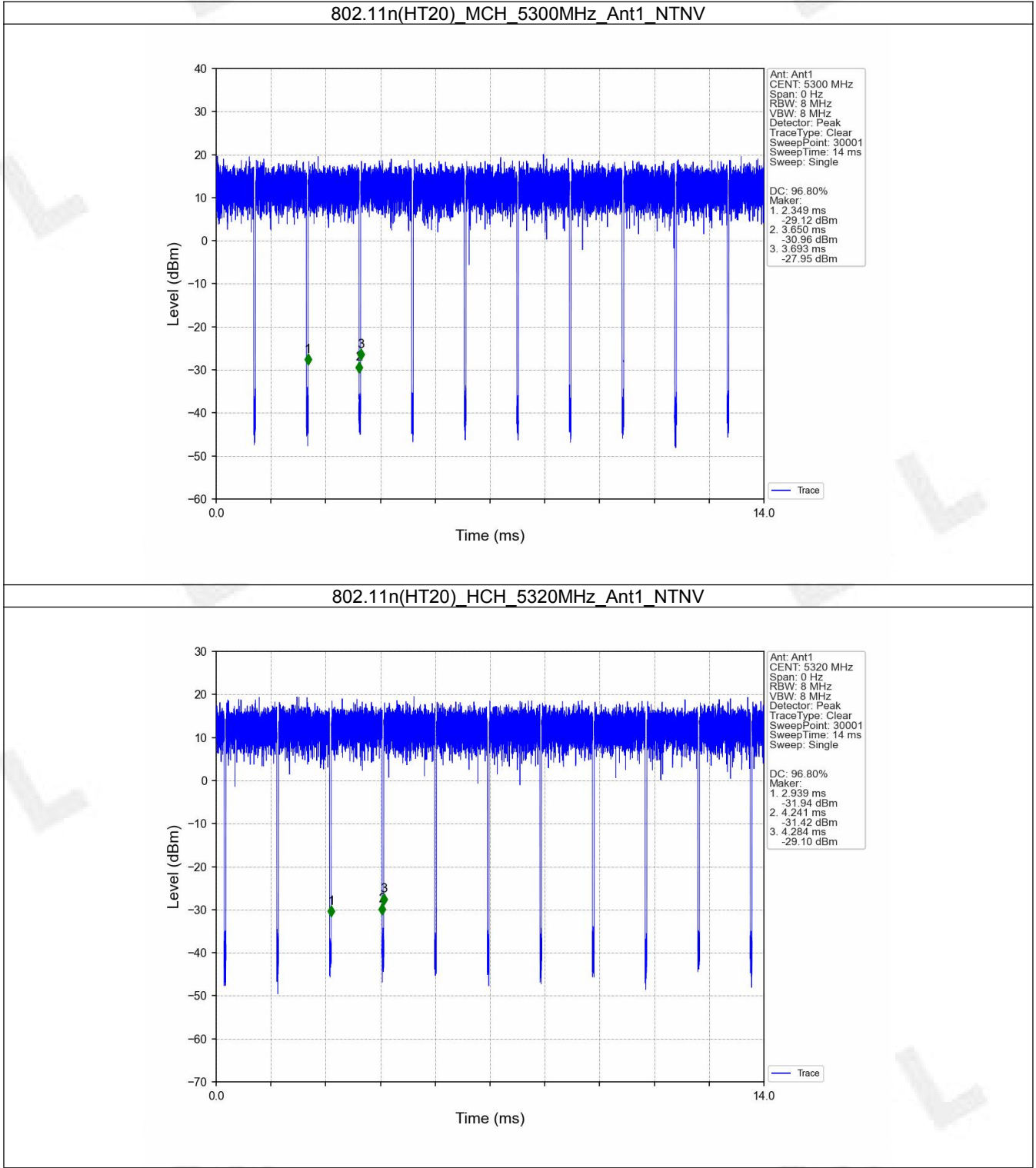
1.2.1 Ant1



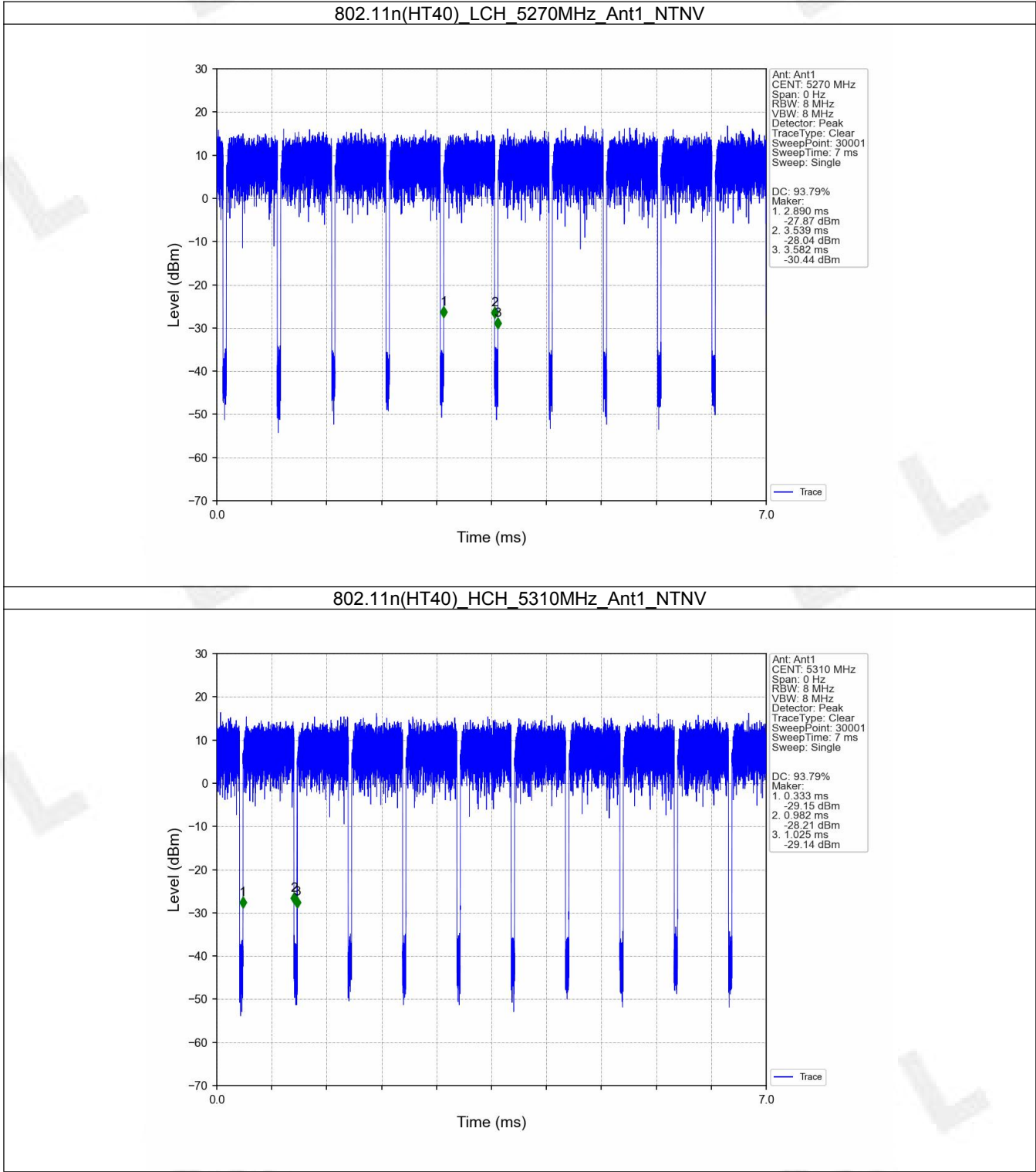
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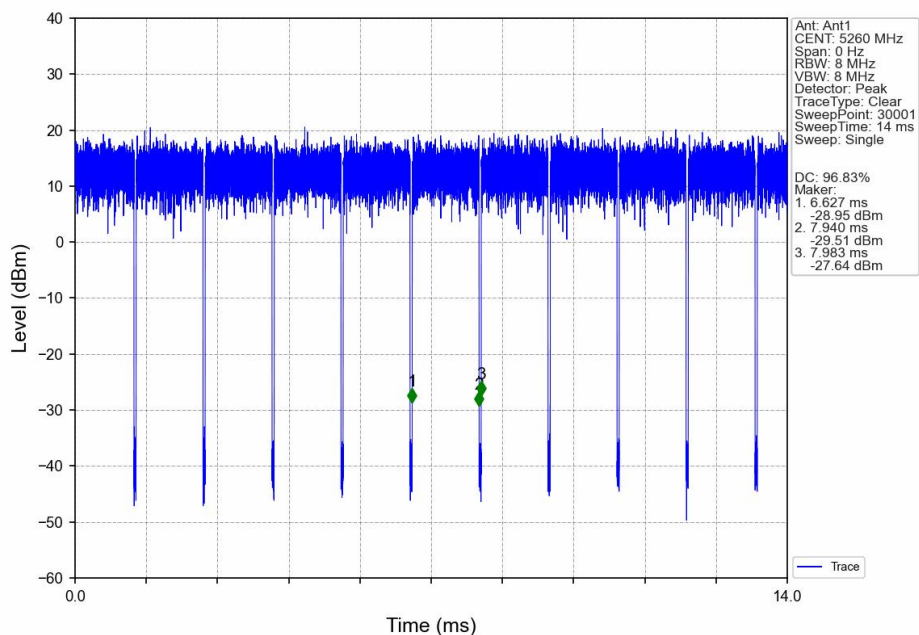


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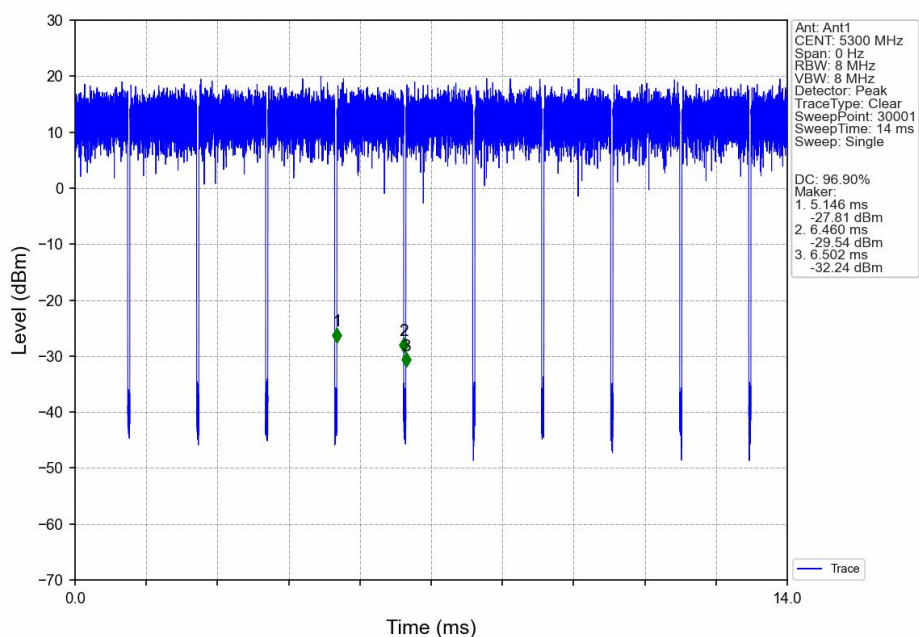


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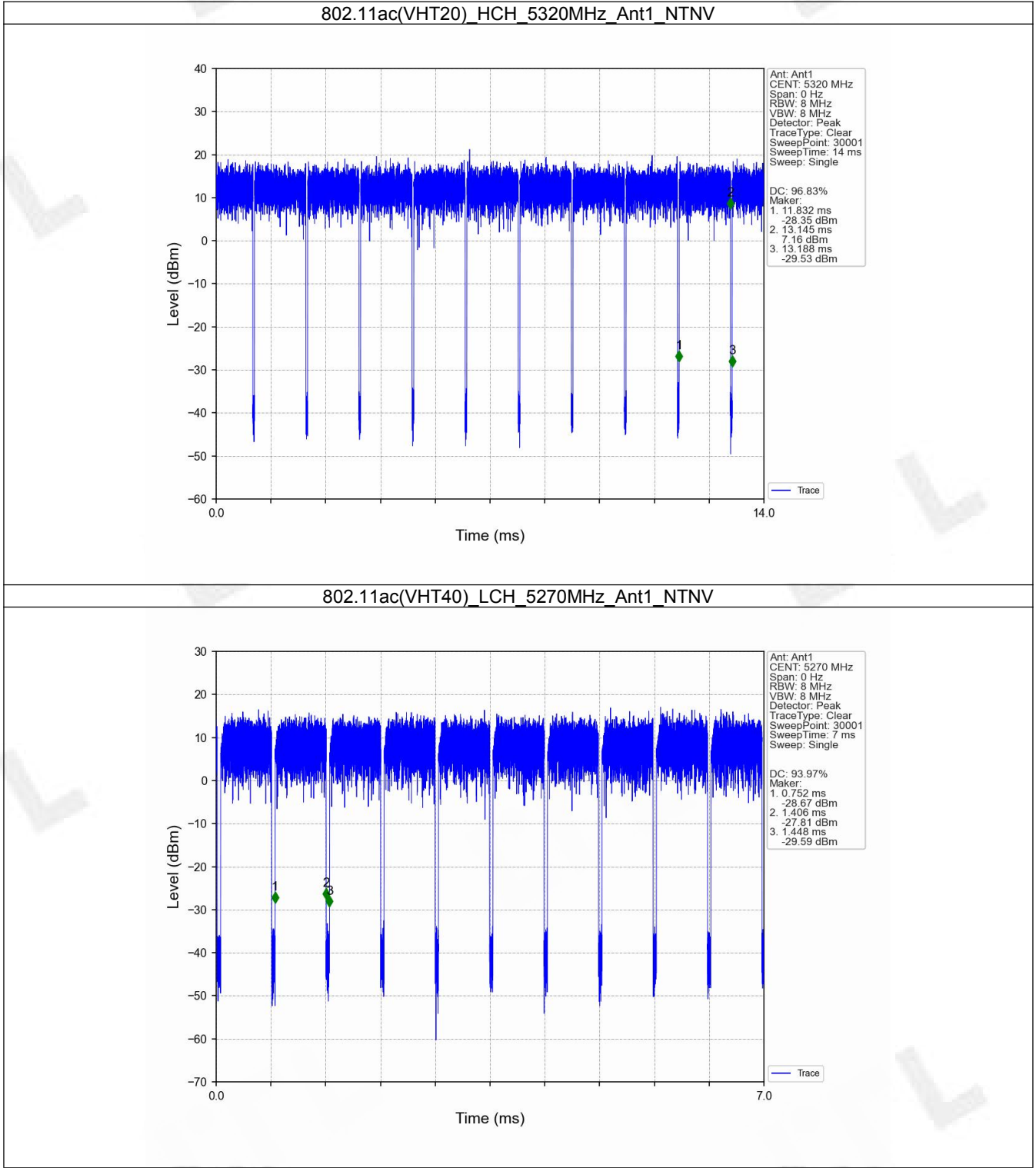
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



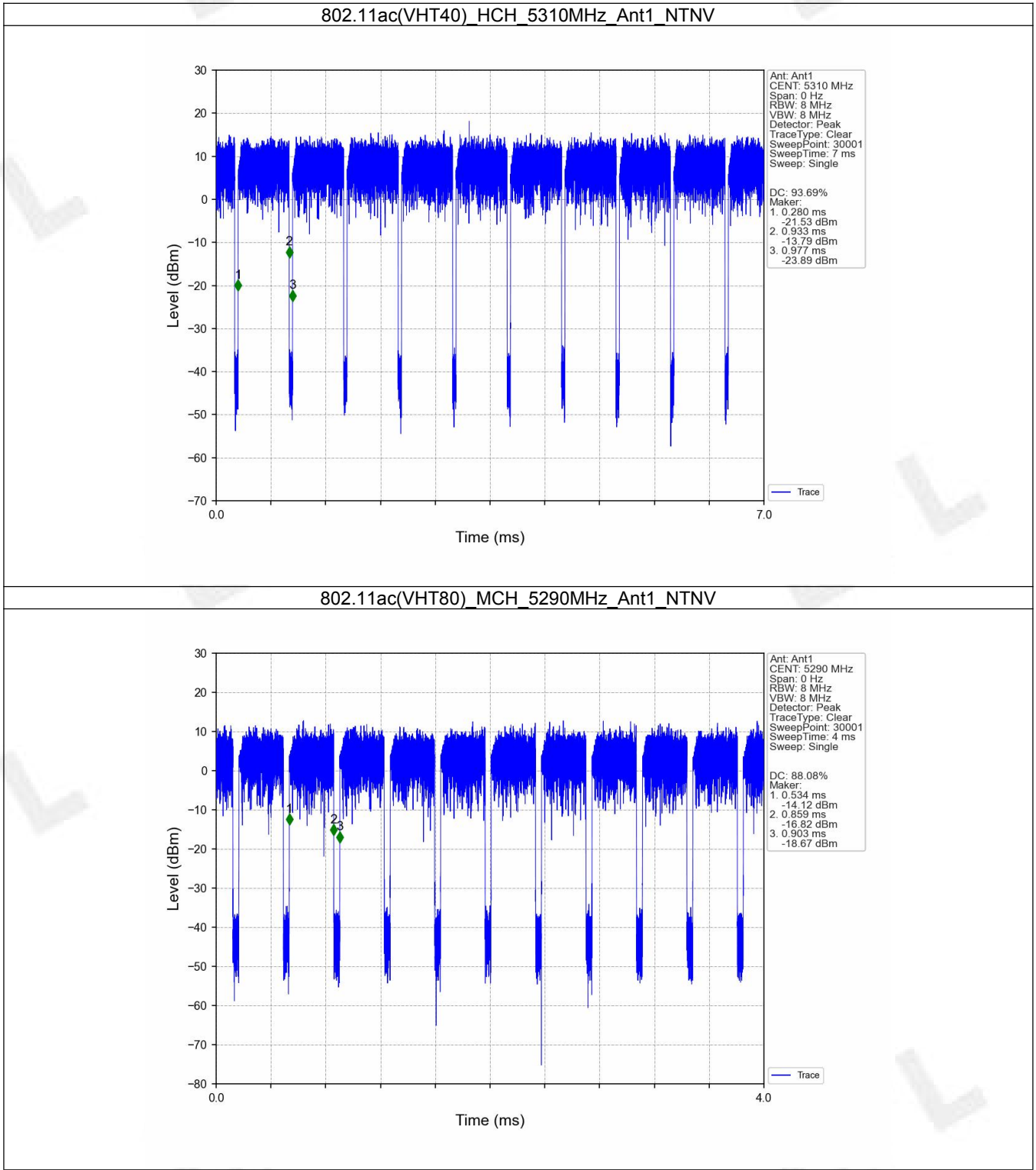
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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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	5260	1	16.400	/	Pass
		5300	1	16.430	/	Pass
		5320	1	16.403	/	Pass
802.11n (HT20)	SISO	5260	1	17.585	/	Pass
		5300	1	17.557	/	Pass
		5320	1	17.563	/	Pass
802.11n (HT40)	SISO	5270	1	36.152	/	Pass
		5310	1	36.298	/	Pass
802.11ac (VHT20)	SISO	5260	1	17.555	/	Pass
		5300	1	17.567	/	Pass
		5320	1	17.574	/	Pass
802.11ac (VHT40)	SISO	5270	1	36.127	/	Pass
		5310	1	36.058	/	Pass
802.11ac (VHT80)	SISO	5290	1	75.245	/	Pass

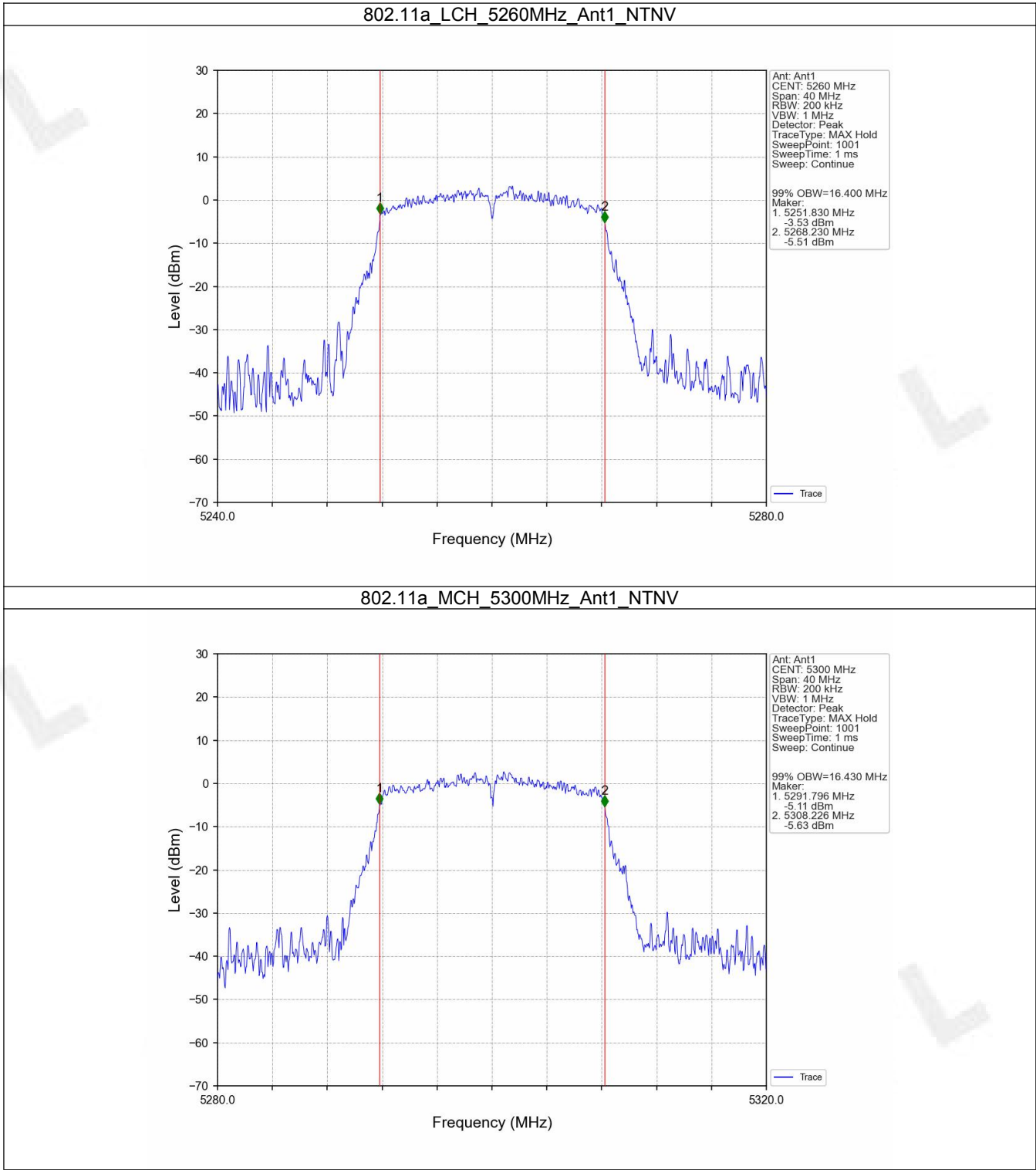
2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5260	1	19.794	/	Pass
		5300	1	19.840	/	Pass
		5320	1	19.684	/	Pass
802.11n (HT20)	SISO	5260	1	20.444	/	Pass
		5300	1	19.904	/	Pass
		5320	1	19.988	/	Pass
802.11n (HT40)	SISO	5270	1	41.094	/	Pass
		5310	1	41.072	/	Pass
802.11ac (VHT20)	SISO	5260	1	20.296	/	Pass
		5300	1	20.167	/	Pass
		5320	1	19.928	/	Pass
802.11ac (VHT40)	SISO	5270	1	41.266	/	Pass
		5310	1	41.299	/	Pass
802.11ac (VHT80)	SISO	5290	1	80.654	/	Pass

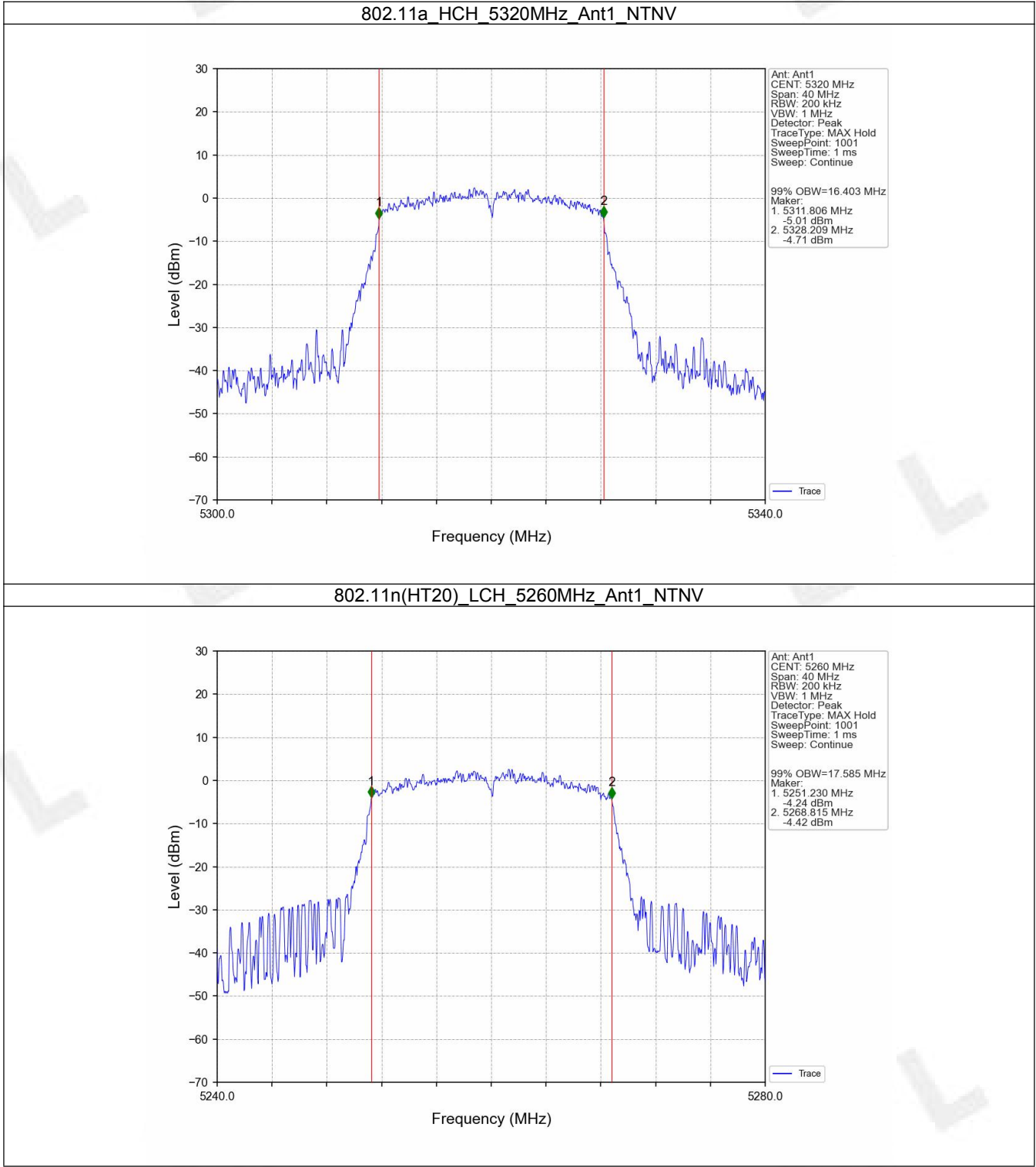
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2.2 Test Graph

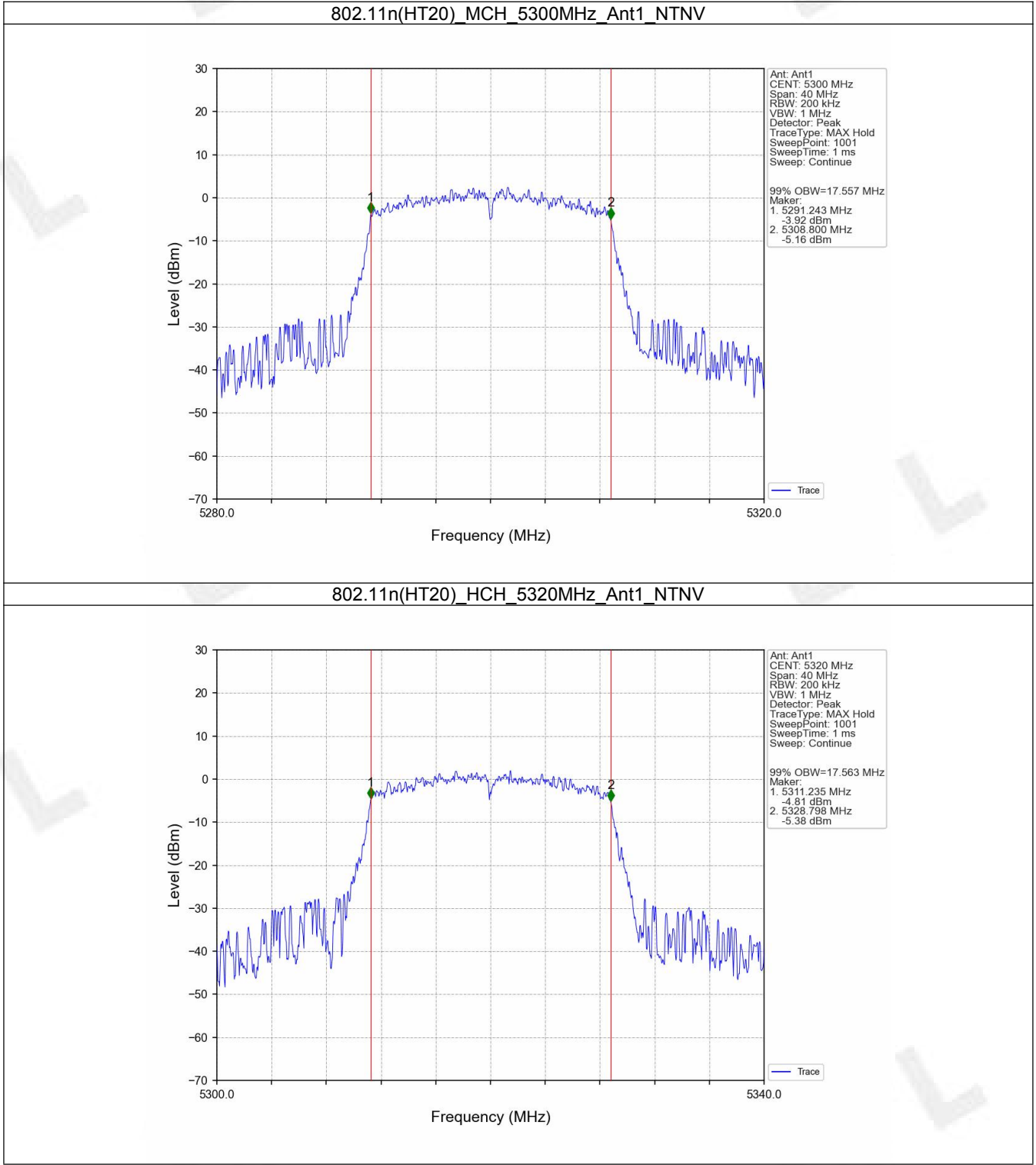
2.2.1 OBW



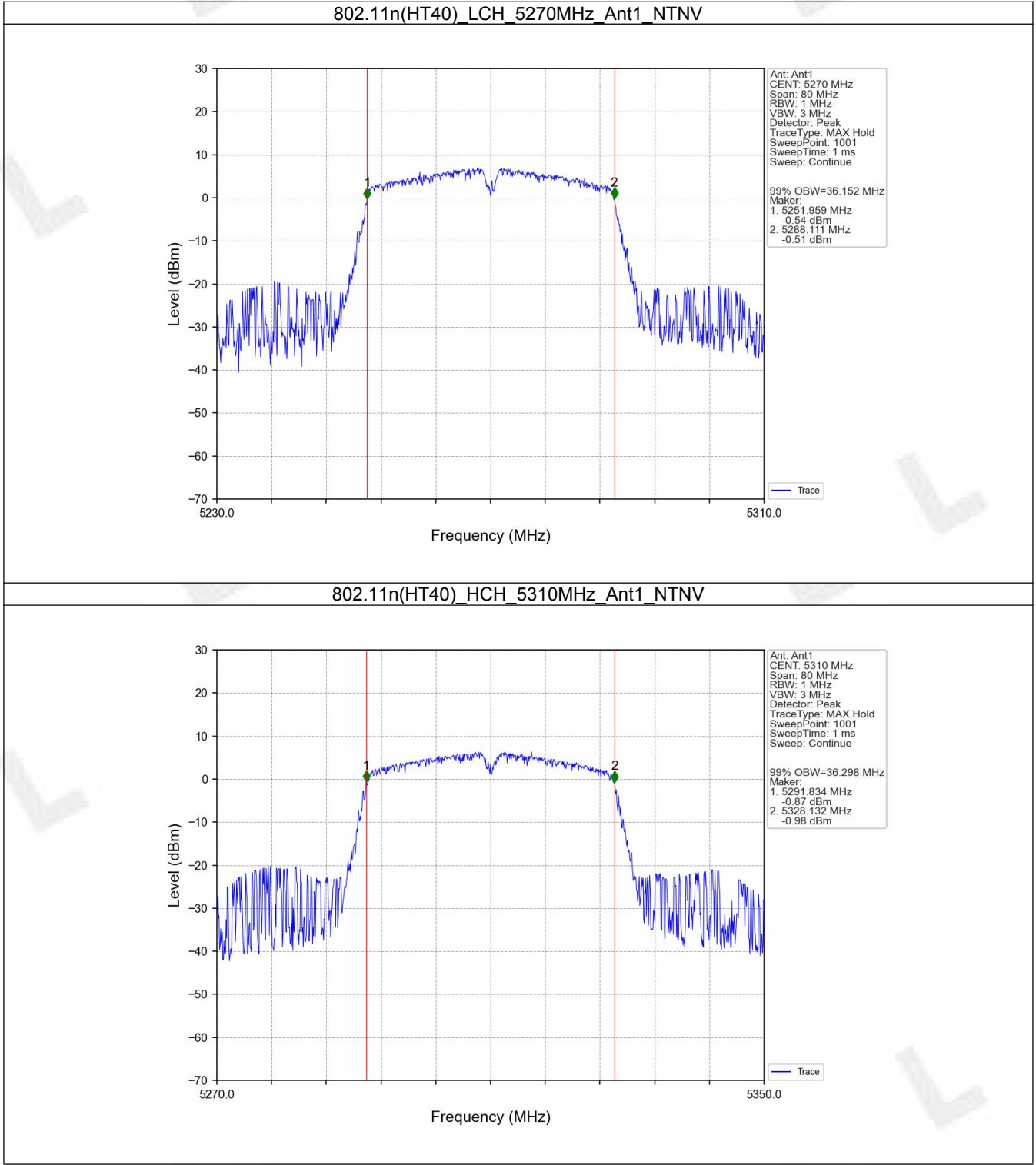
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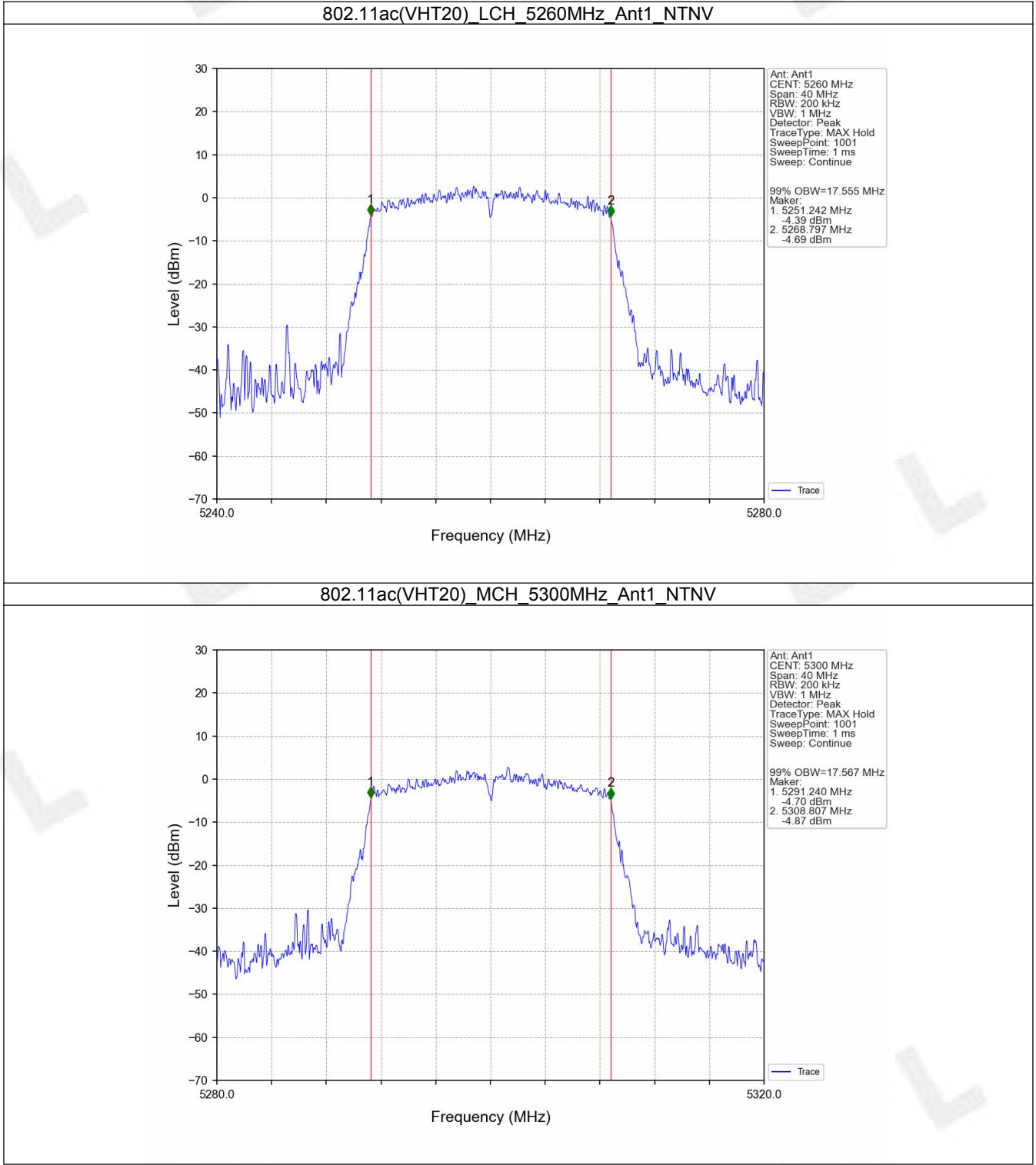
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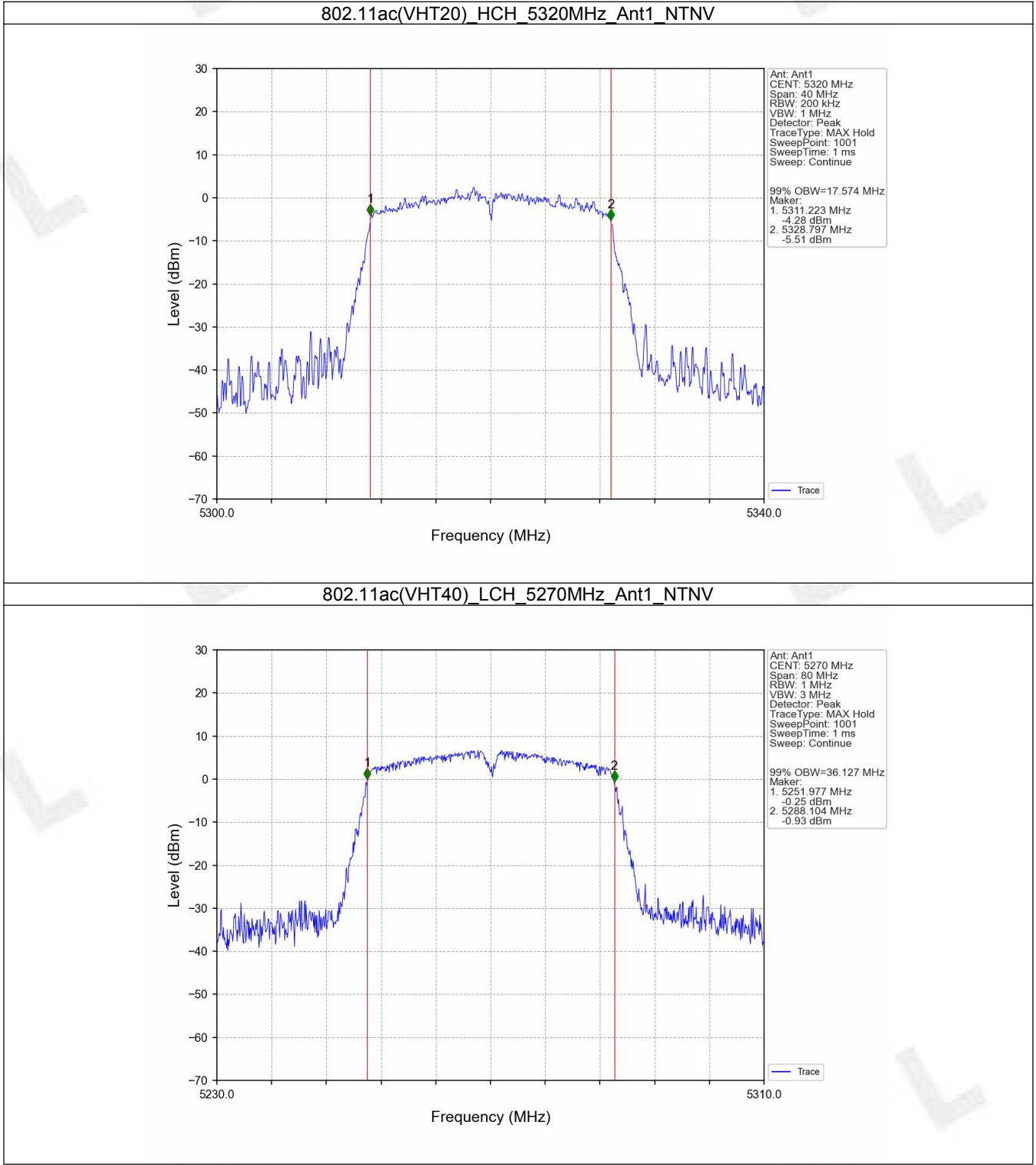
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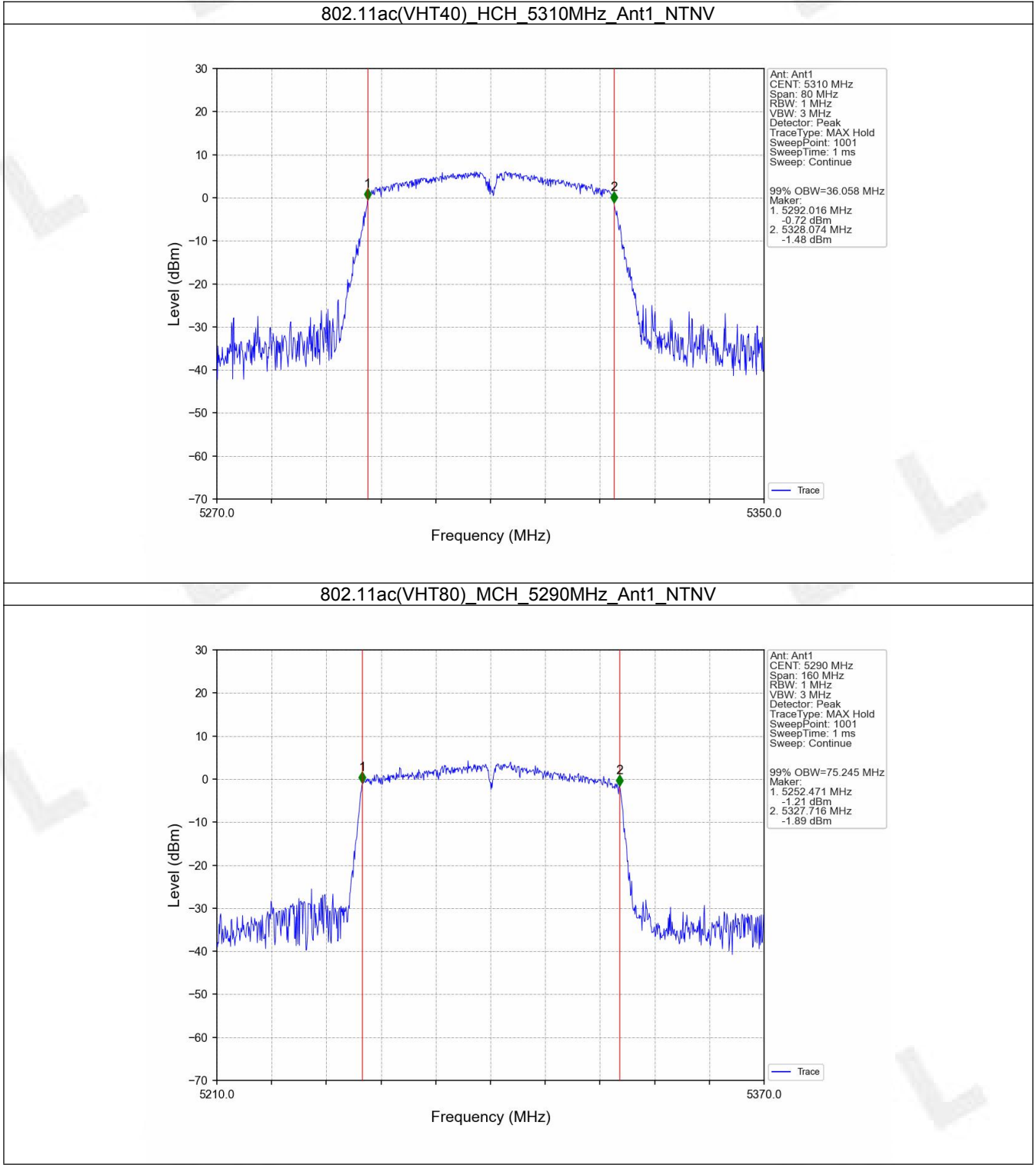
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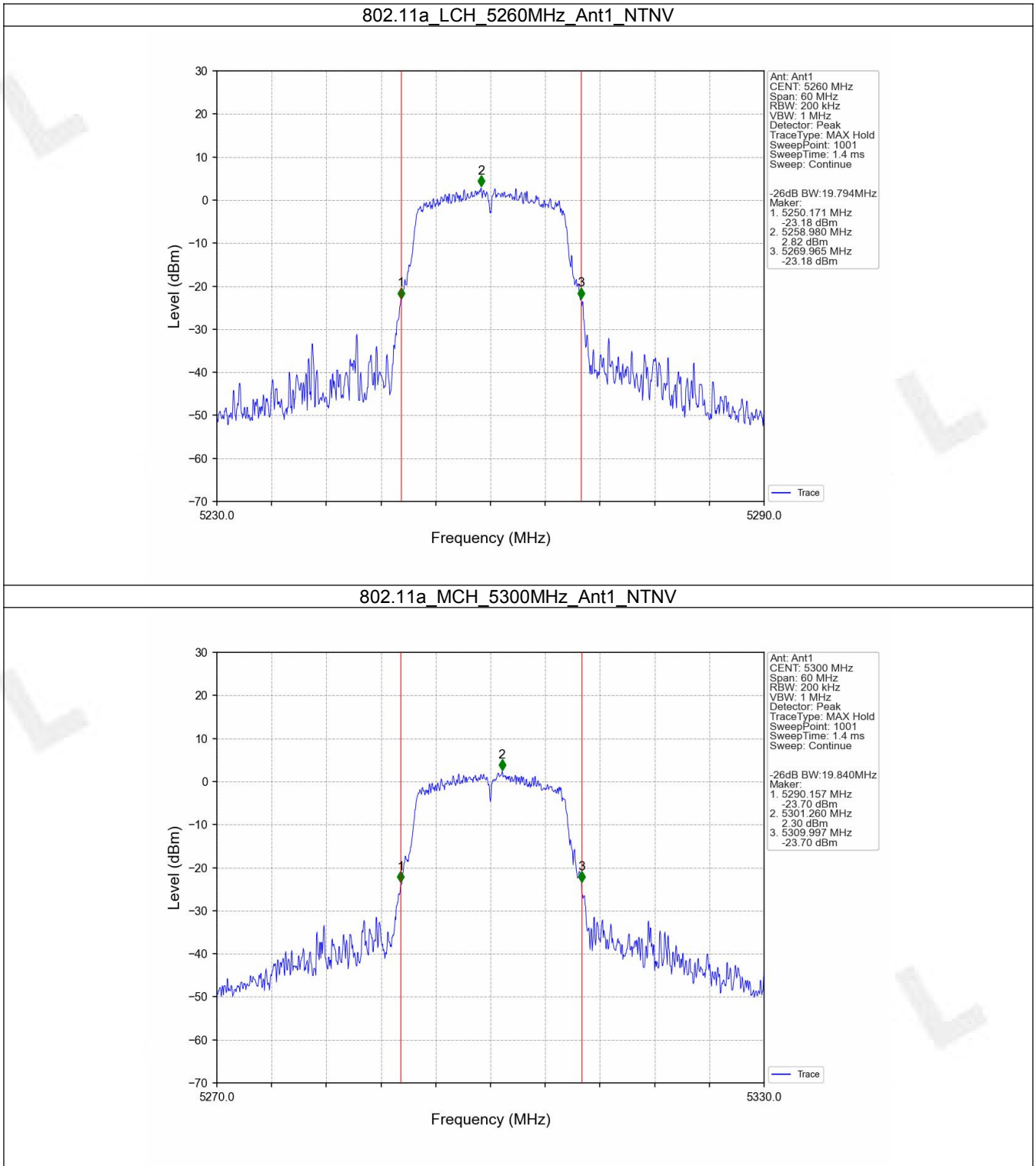


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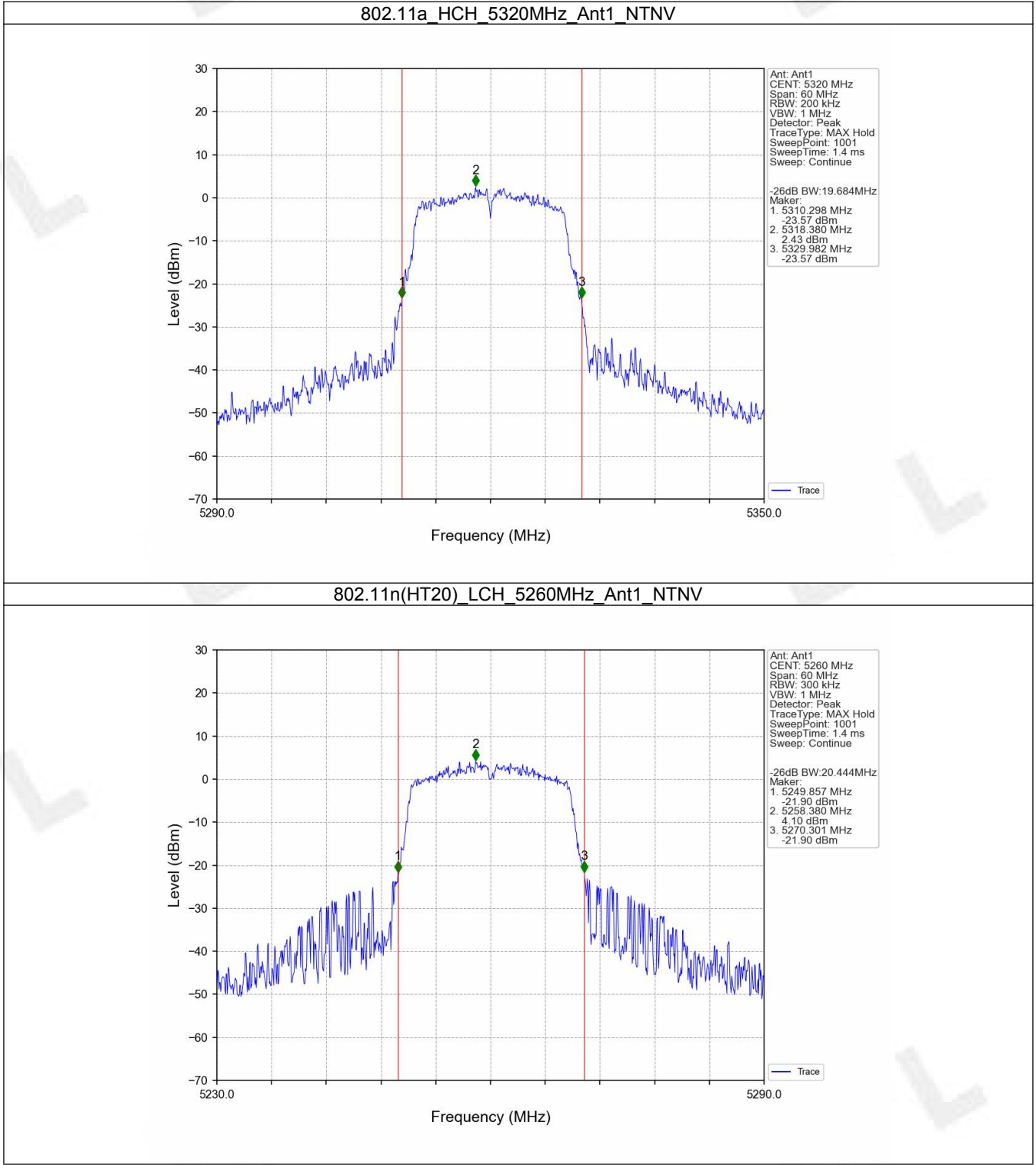


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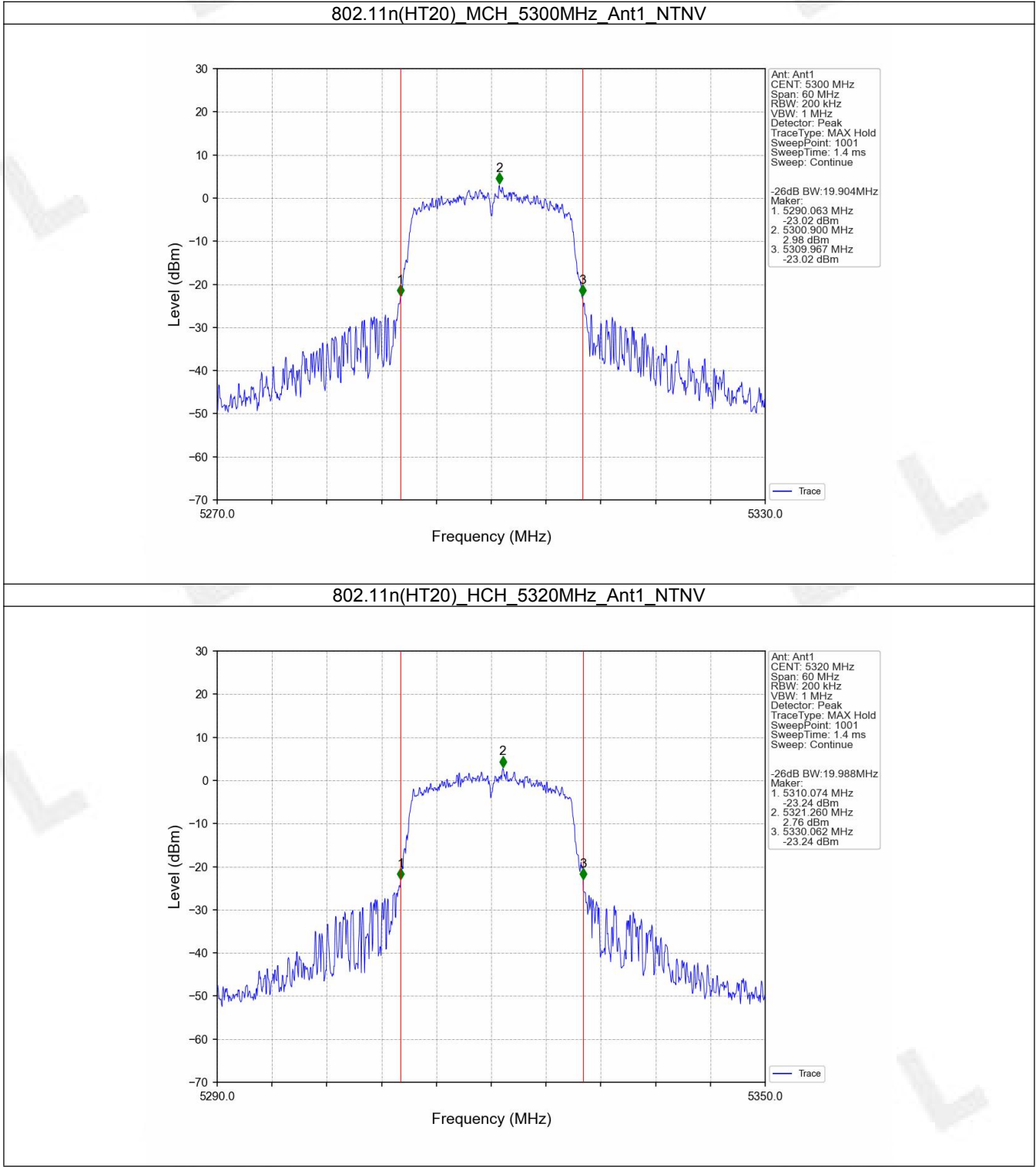
2.2.2 26dB BW



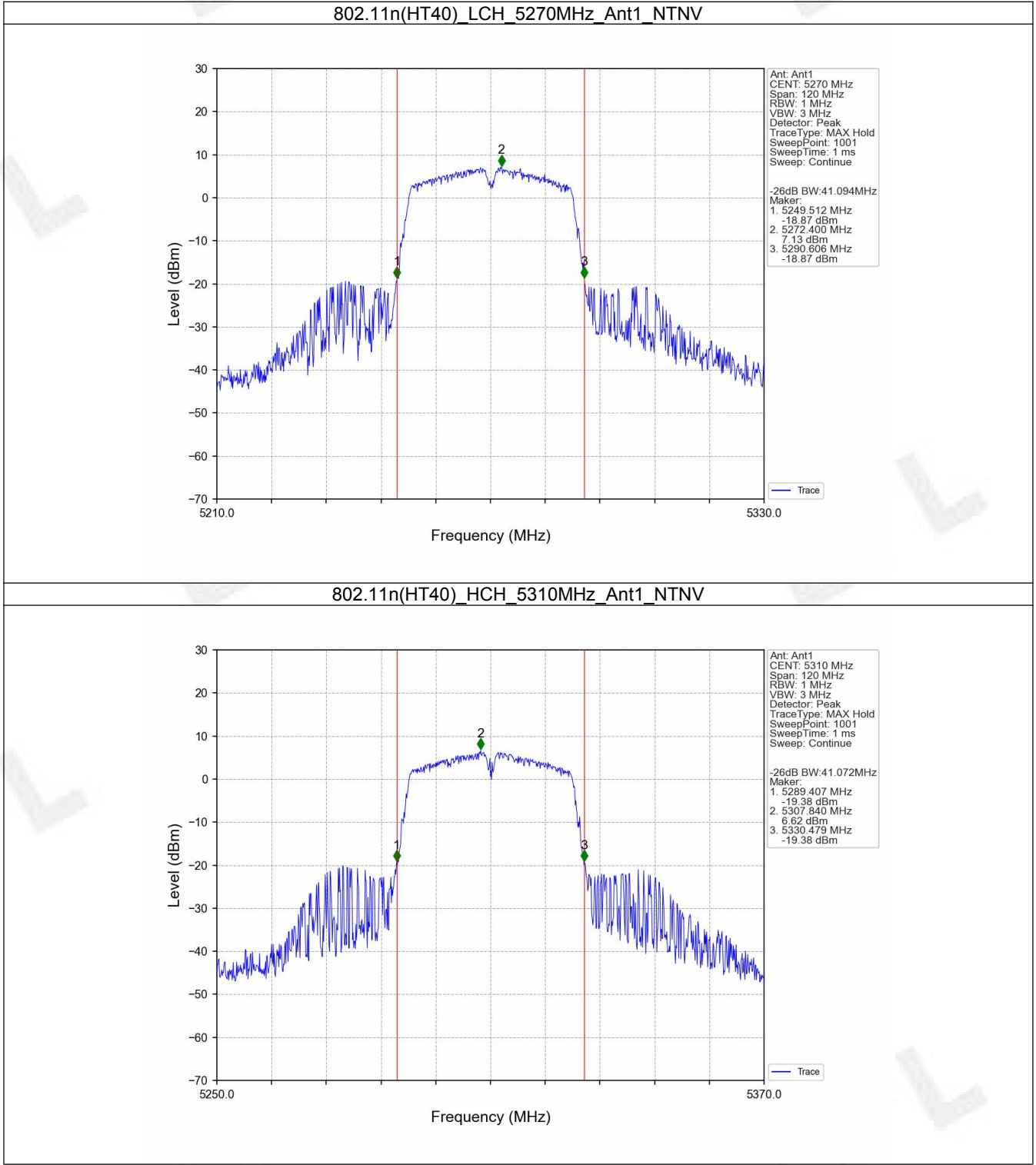
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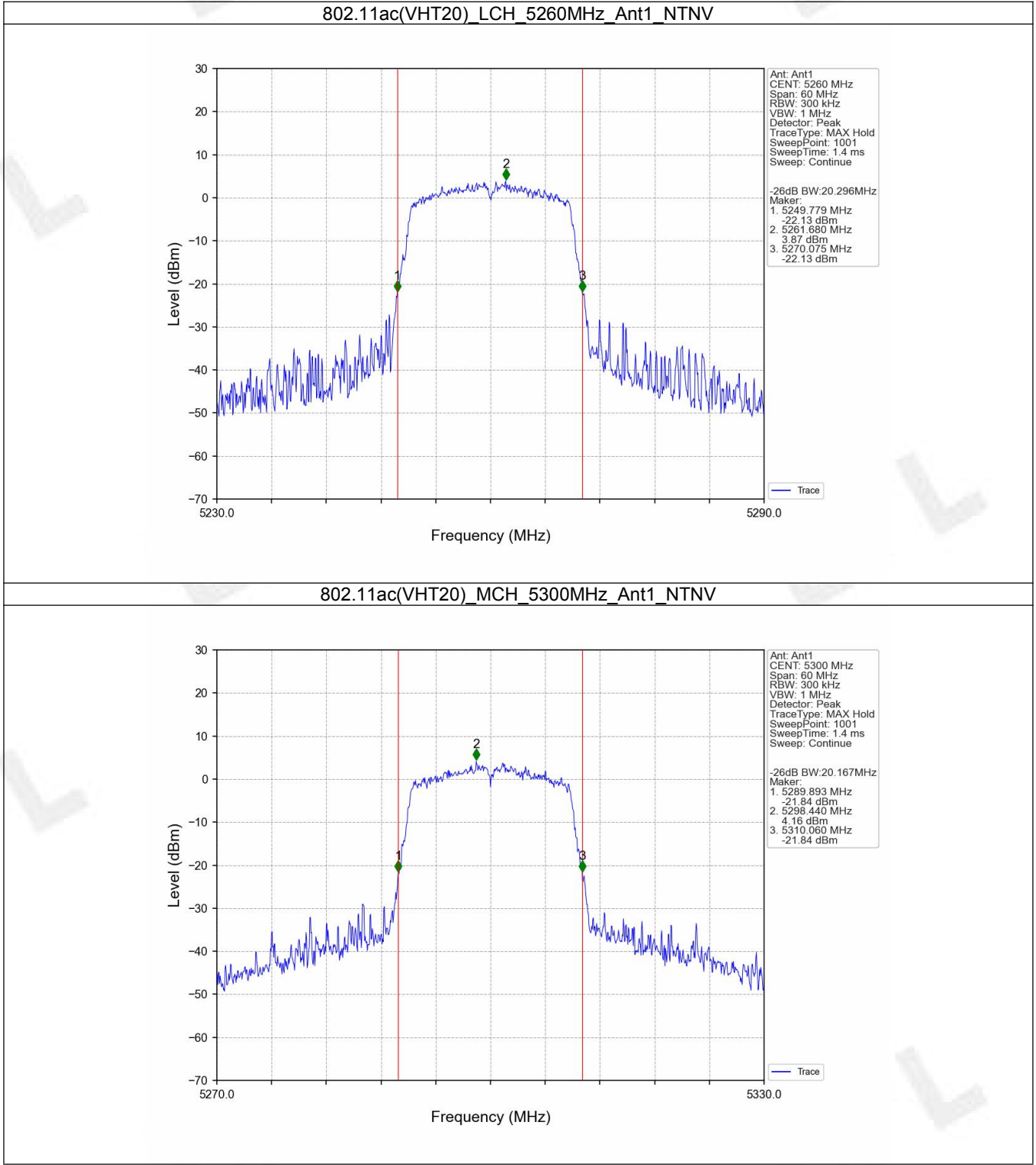
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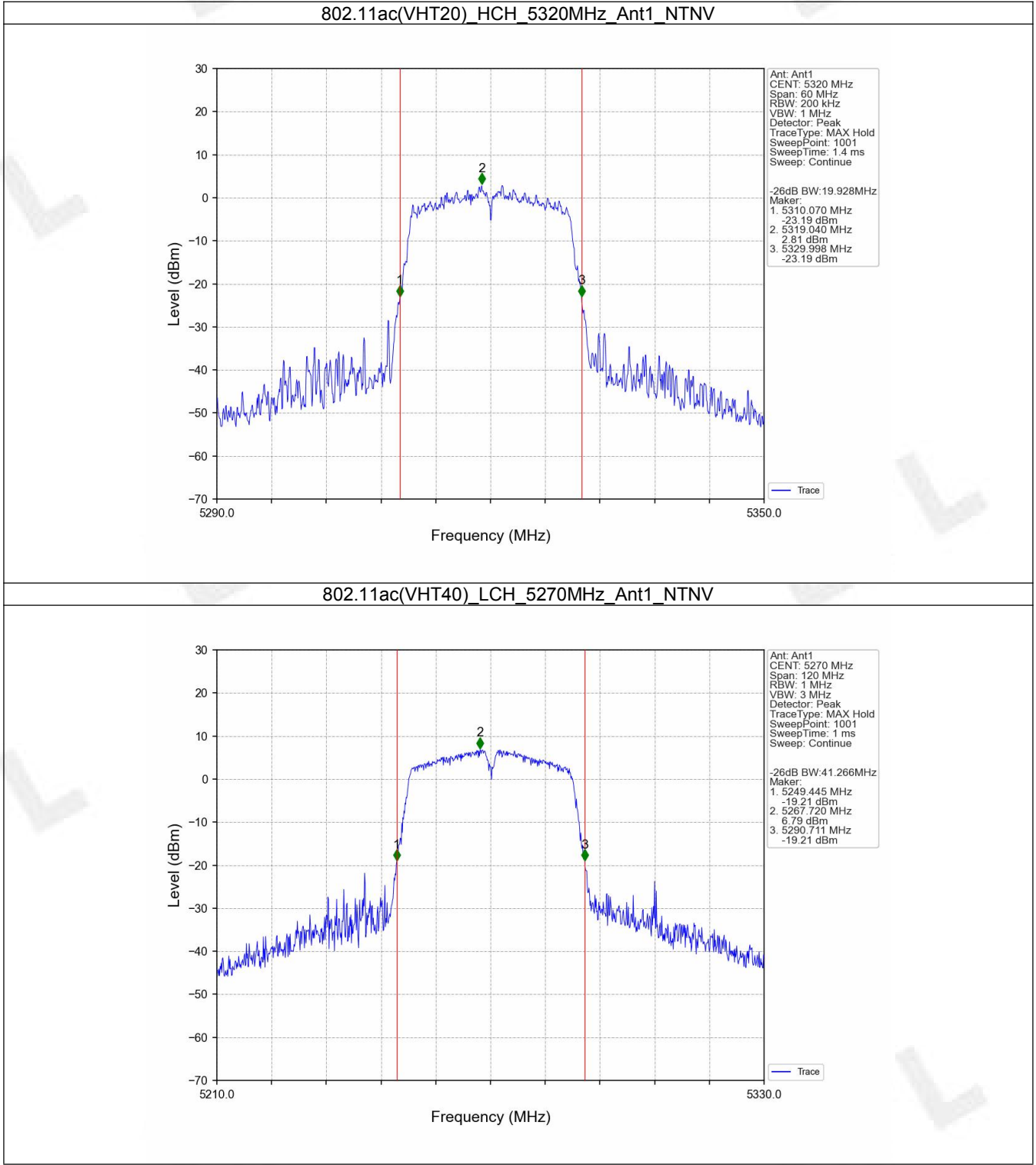
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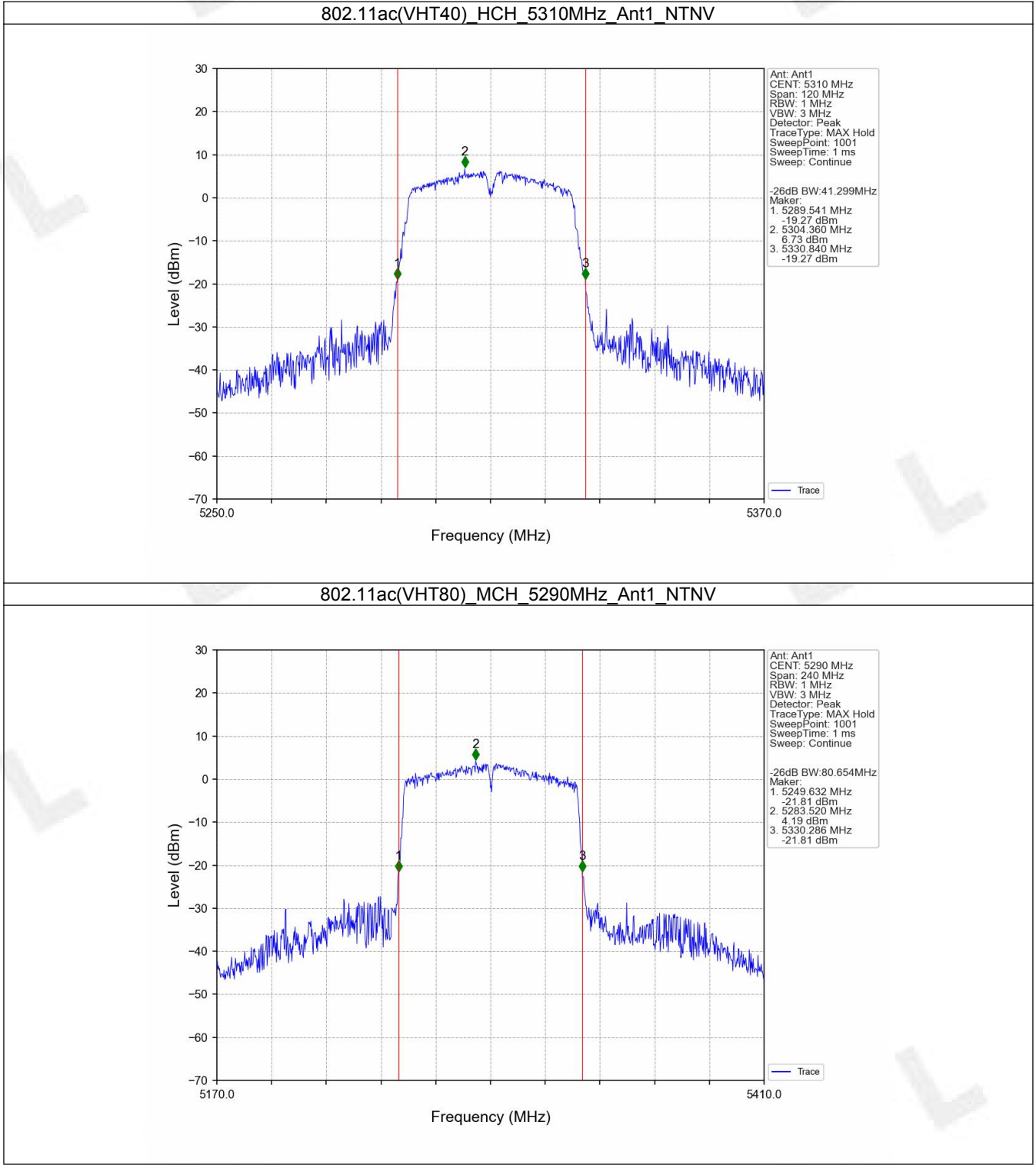
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3. Maximum Conducted Output Power

3.1 Test Result

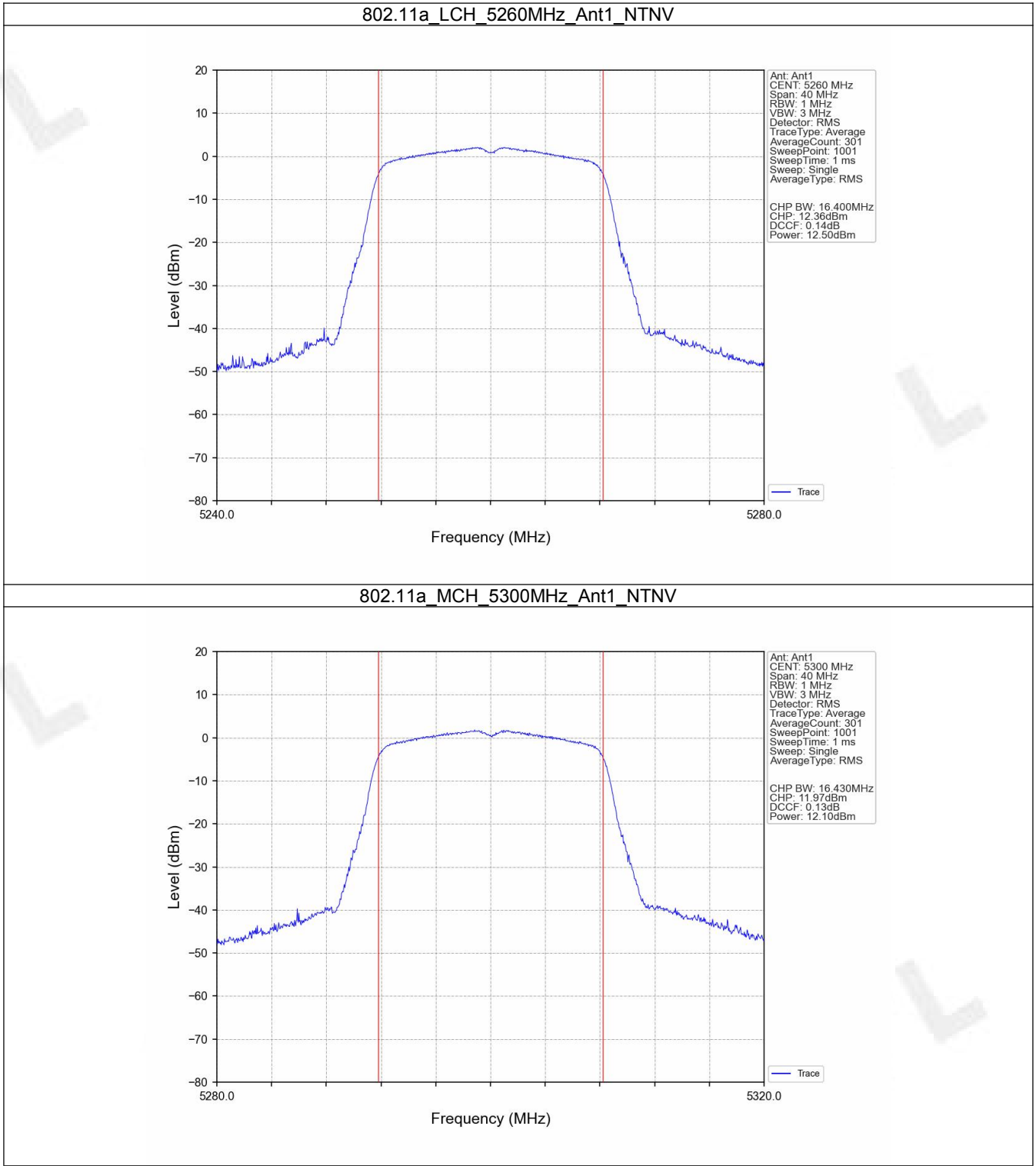
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5260	12.50	<=23.97	Pass
		5300	12.10	<=23.98	Pass
		5320	11.97	<=23.94	Pass
802.11n (HT20)	SISO	5260	12.39	<=23.98	Pass
		5300	11.95	<=23.98	Pass
		5320	11.91	<=23.98	Pass
802.11n (HT40)	SISO	5270	12.42	<=23.98	Pass
		5310	11.80	<=23.98	Pass
802.11ac (VHT20)	SISO	5260	12.36	<=23.98	Pass
		5300	11.91	<=23.98	Pass
		5320	11.88	<=23.98	Pass
802.11ac (VHT40)	SISO	5270	12.19	<=23.98	Pass
		5310	11.65	<=23.98	Pass
802.11ac (VHT80)	SISO	5290	12.19	<=23.98	Pass
Note1: Antenna Gain: Ant1: 0.88dBi; Note2: RF Cable loss=0.5dB Note3: The test results include RF Cable loss.					

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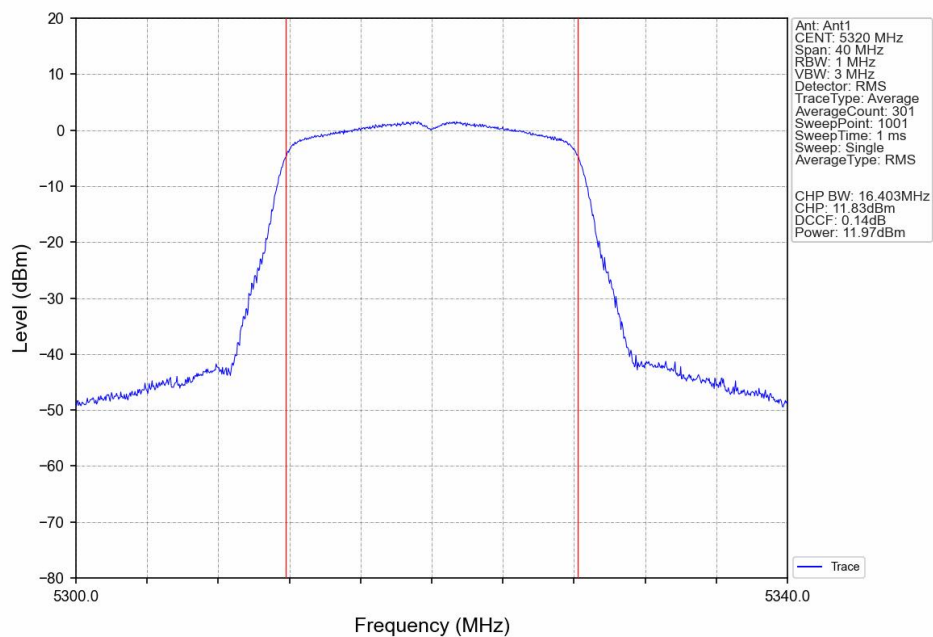
3.2 Test Graph

3.2.1 Power

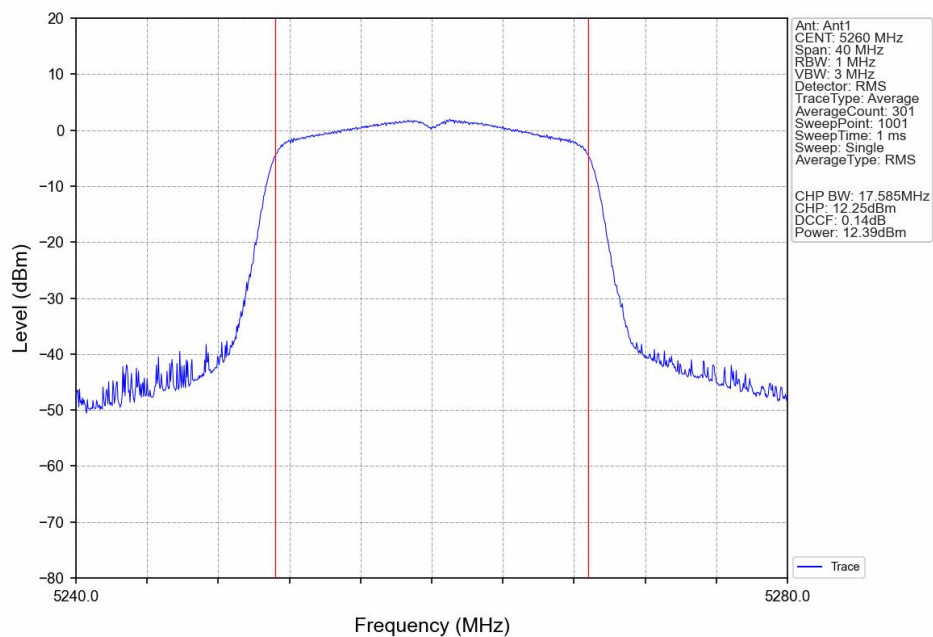


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802.11a_HCH_5320MHz_Ant1_NTNV

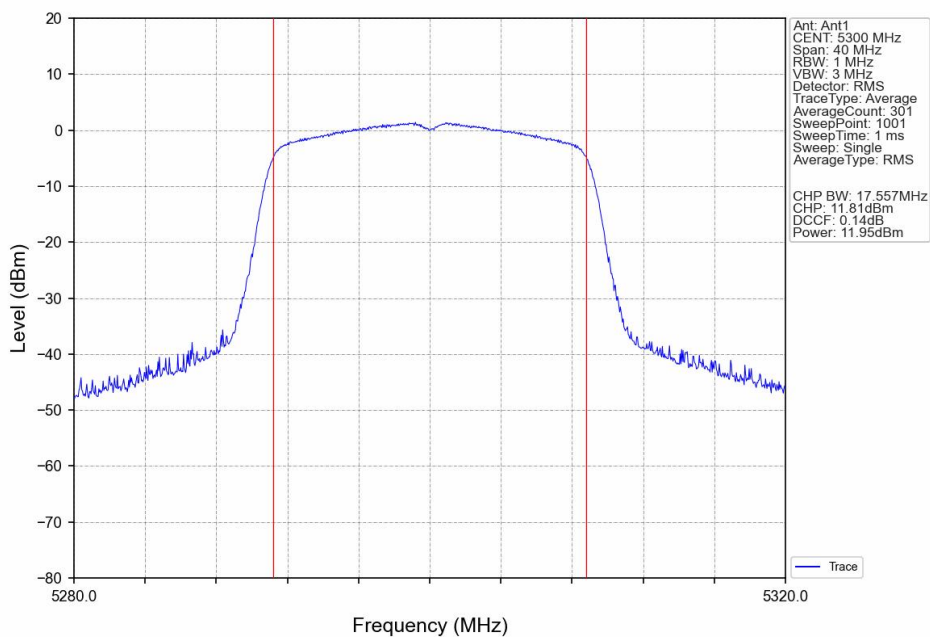


802.11n(HT20)_LCH_5260MHz_Ant1_NTNV

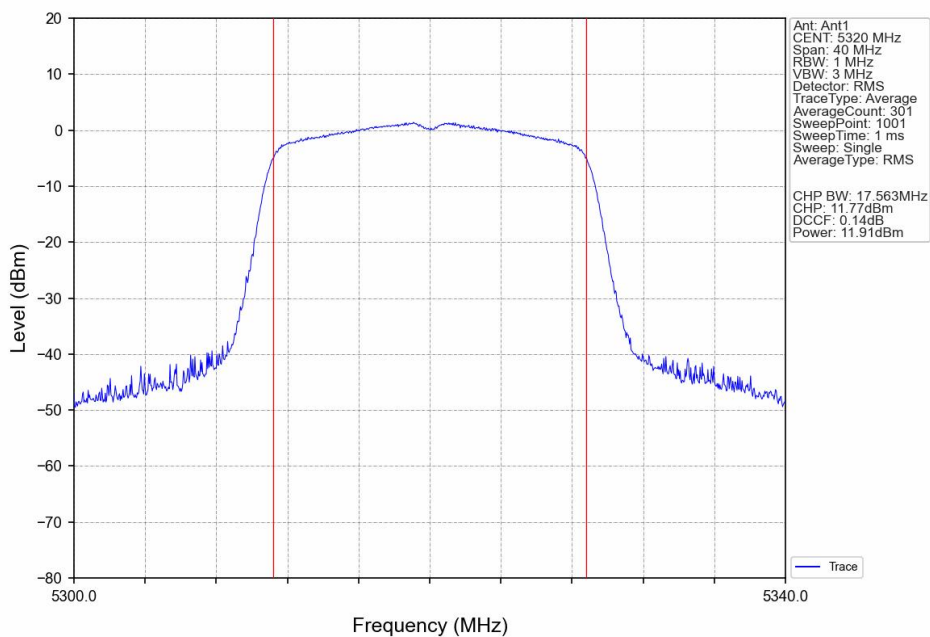


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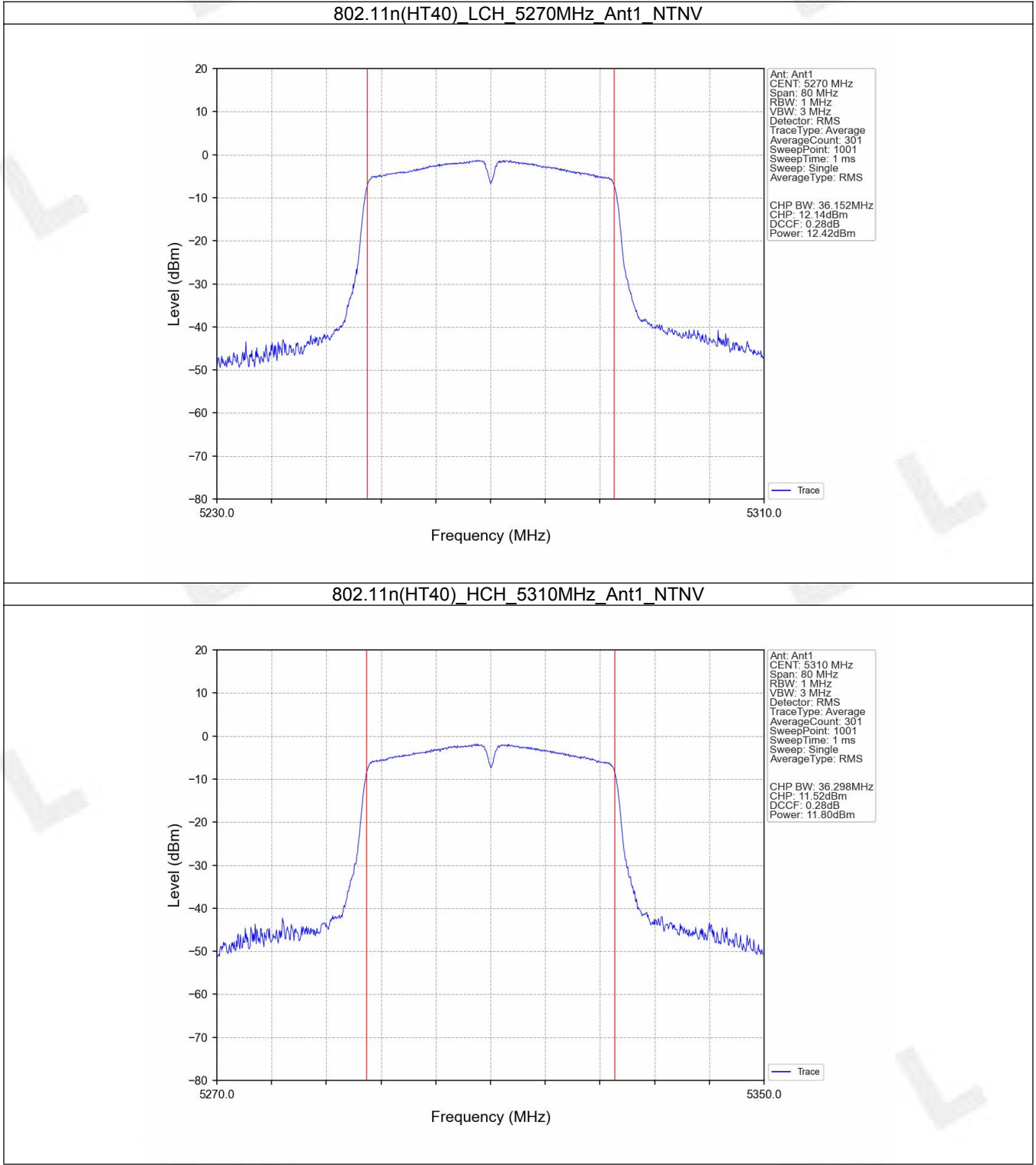
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



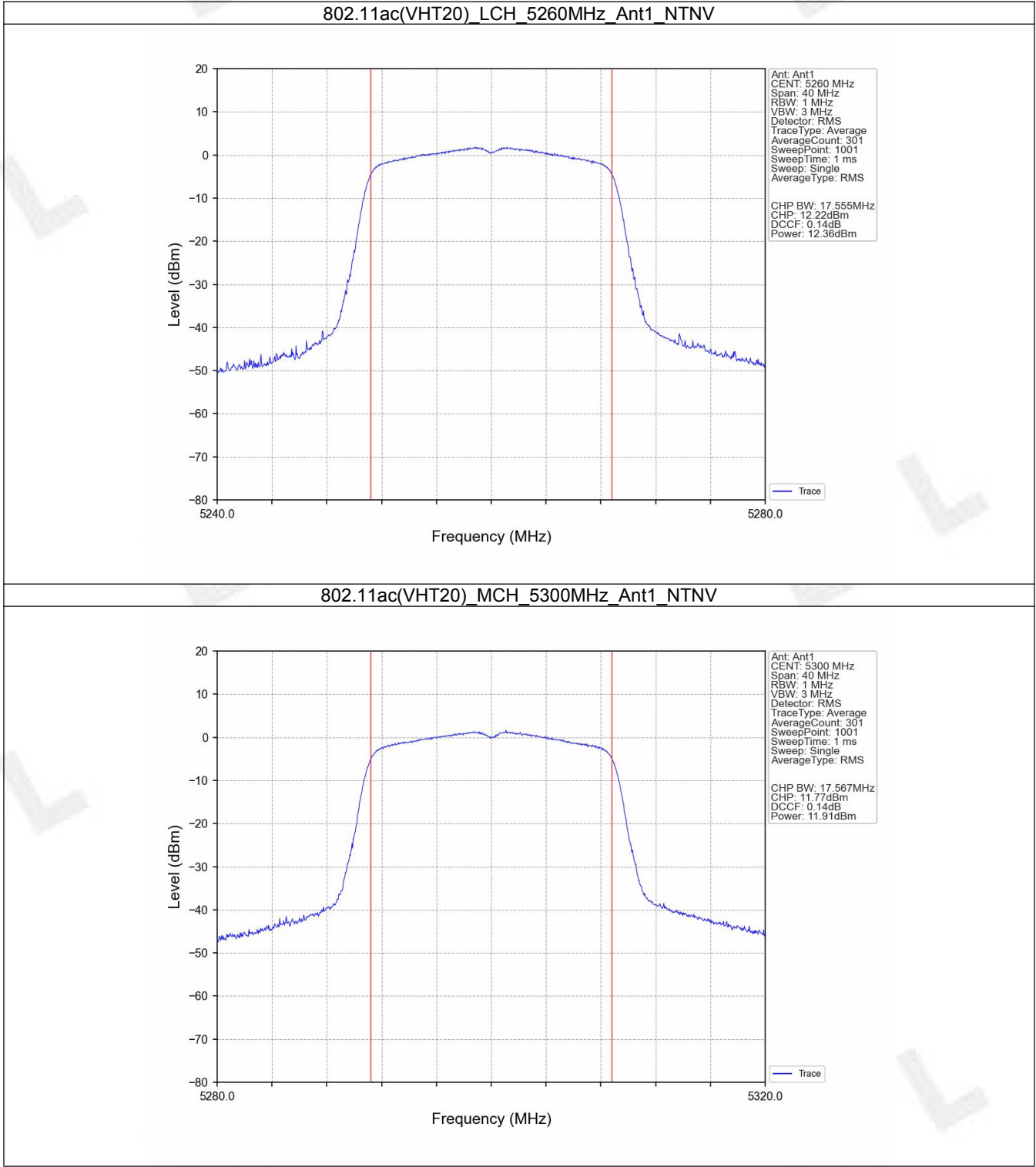
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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