



Annex for 5G Wi-Fi Band 2A

Test Report No.: CTL2506042031-WF02

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FCCID: 2AYHD-SR01

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	0.688	0.746	92.23	0.35	0.04
		5300	0.687	0.745	92.21	0.35	0.04
		5320	0.687	0.745	92.21	0.35	0.04
802.11n (HT20)	SISO	5260	1.311	1.368	95.83	0.18	0.03
		5300	1.311	1.369	95.76	0.19	0.03
		5320	1.308	1.368	95.61	0.19	0.03
802.11n (HT40)	SISO	5270	0.650	0.708	91.81	0.37	0.03
		5310	0.650	0.708	91.81	0.37	0.04
802.11n (HT20)	MIMO	5260	1.311	1.369	95.76	0.19	0.03
		5300	1.311	1.369	95.76	0.19	0.03
		5320	1.311	1.369	95.76	0.19	0.03
802.11n (HT40)	MIMO	5270	0.650	0.708	91.81	0.37	0.03
		5310	0.650	0.708	91.81	0.37	0.03
802.11ac (VHT20)	SISO	5260	0.687	0.745	92.21	0.35	0.04
		5300	0.687	0.745	92.21	0.35	0.04
		5320	0.686	0.744	92.20	0.35	0.04
802.11ac (VHT40)	SISO	5270	0.354	0.412	85.92	0.66	0.03
		5310	0.355	0.412	86.17	0.65	0.03
802.11ac (VHT80)	SISO	5290	0.190	0.247	76.92	1.14	0.07
802.11ac (VHT20)	MIMO	5260	0.687	0.744	92.34	0.35	0.04
		5300	0.687	0.745	92.21	0.35	0.04
		5320	0.687	0.745	92.21	0.35	0.04
802.11ac (VHT40)	MIMO	5270	0.354	0.412	85.92	0.66	0.00
		5310	0.354	0.412	85.92	0.66	0.03
802.11ac (VHT80)	MIMO	5290	0.190	0.247	76.92	1.14	23.21

1.1.2 Ant2

Ant2							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5260	1.399	1.457	96.02	0.18	0.03
		5300	1.398	1.457	95.95	0.18	0.03
		5320	1.399	1.457	96.02	0.18	0.03
802.11n (HT20)	SISO	5260	1.311	1.369	95.76	0.19	0.03
		5300	1.311	1.369	95.76	0.19	0.03
		5320	1.311	1.369	95.76	0.19	0.03
802.11n (HT40)	SISO	5270	0.650	0.708	91.81	0.37	0.03
		5310	0.650	0.708	91.81	0.37	0.03
802.11ac (VHT20)	SISO	5260	0.687	0.745	92.21	0.35	0.04
		5300	0.687	0.745	92.21	0.35	0.03

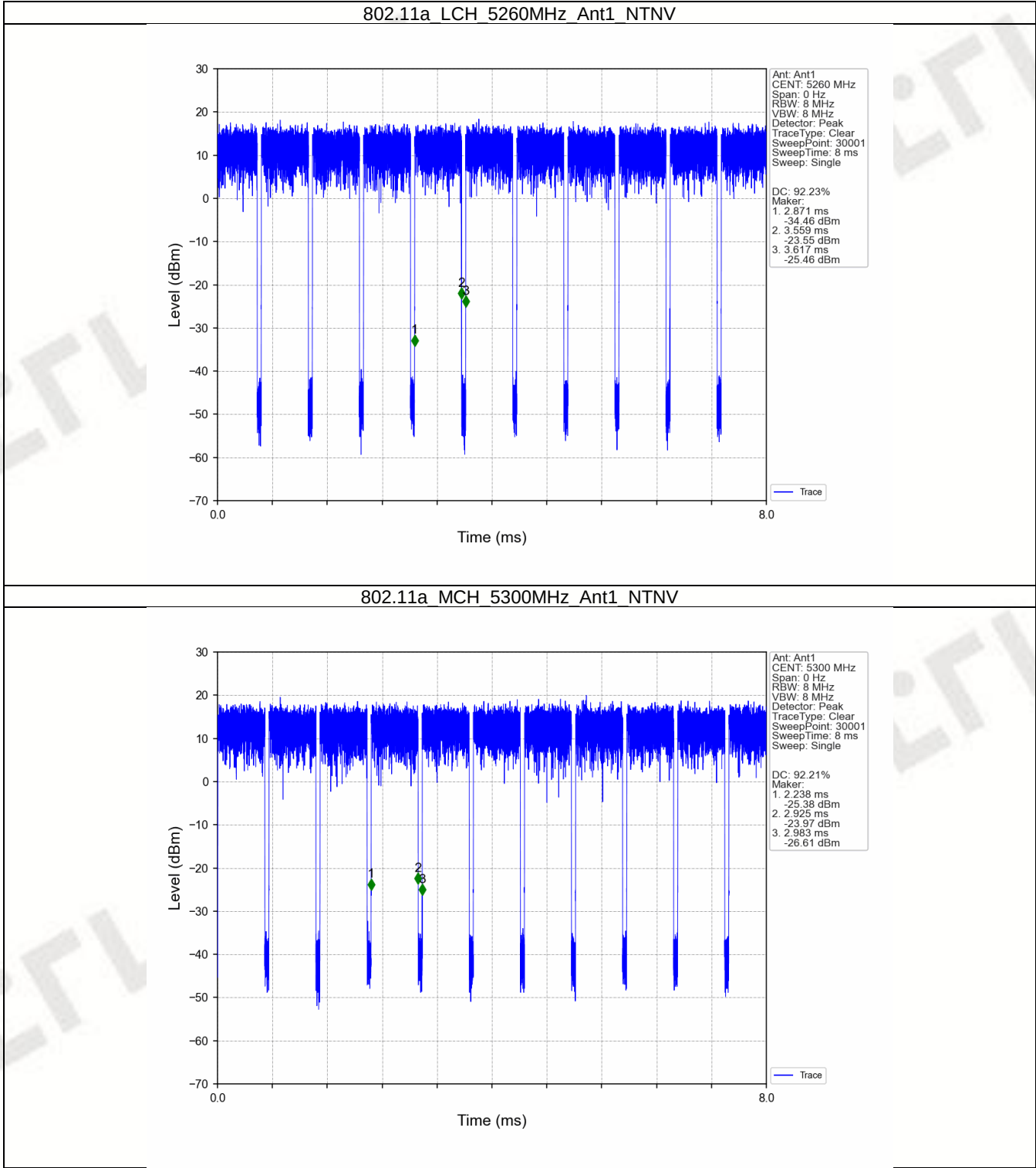
FCCID: 2AYHD-SR01

		5320	0.687	0.744	92.34	0.35	0.04
802.11ac (VHT40)	SISO	5270	0.354	0.412	85.92	0.66	0.00
		5310	0.354	0.412	85.92	0.66	0.00
802.11ac (VHT80)	SISO	5290	0.190	0.248	76.61	1.16	0.03

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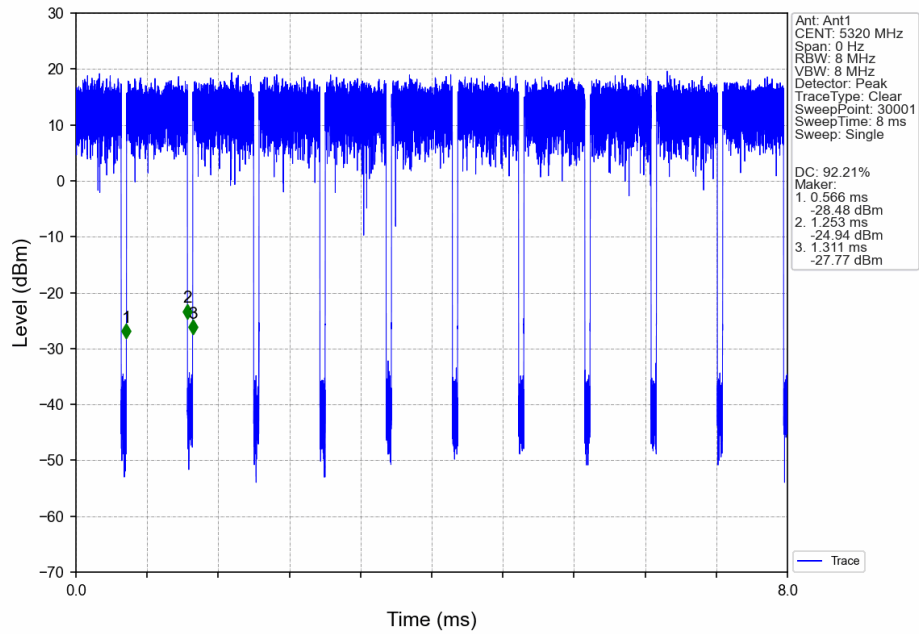
1.2 Test Graph

1.2.1 Ant1

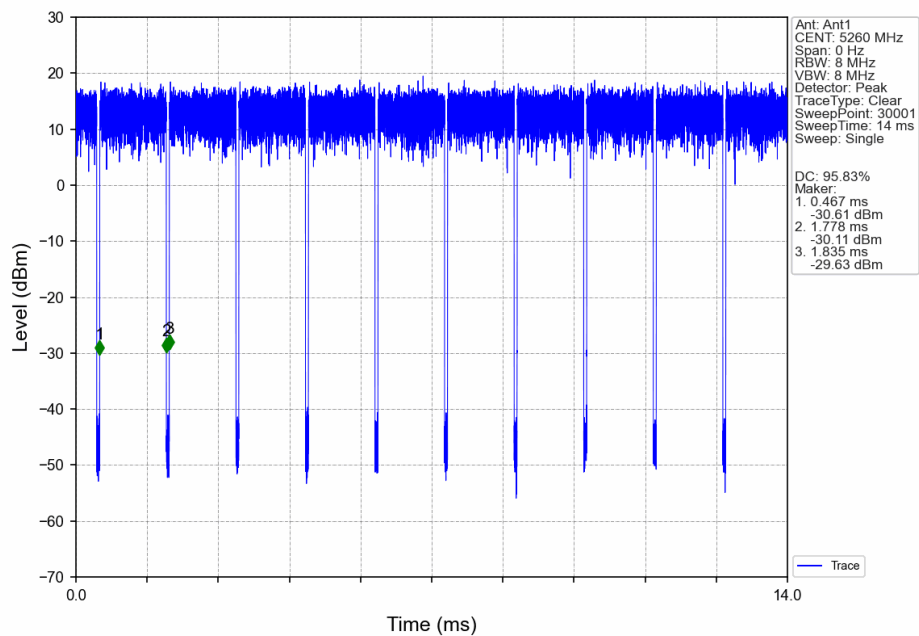


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802.11a HCH 5320MHz Ant1 NTN

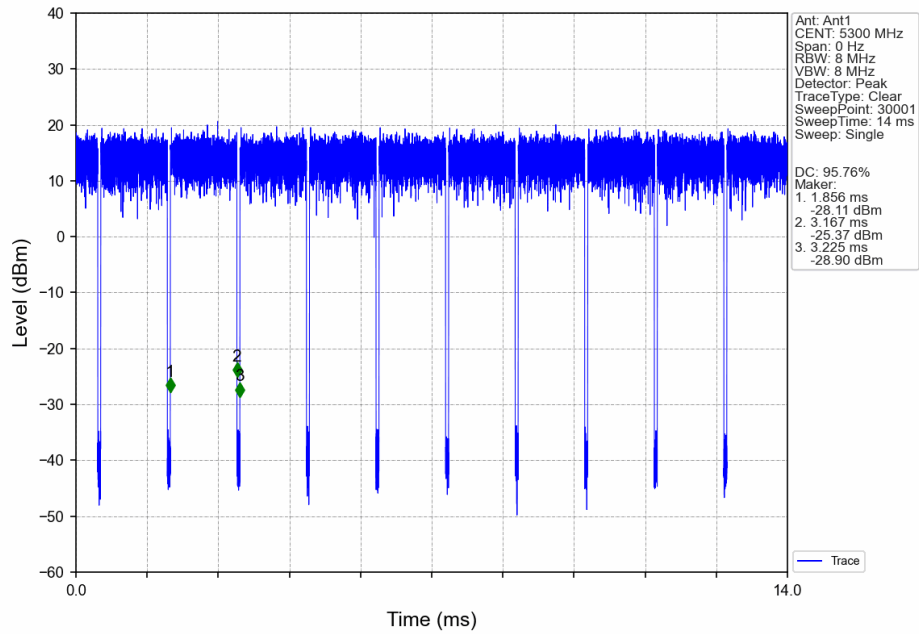


802.11n(HT20) LCH 5260MHz Ant1 NTN

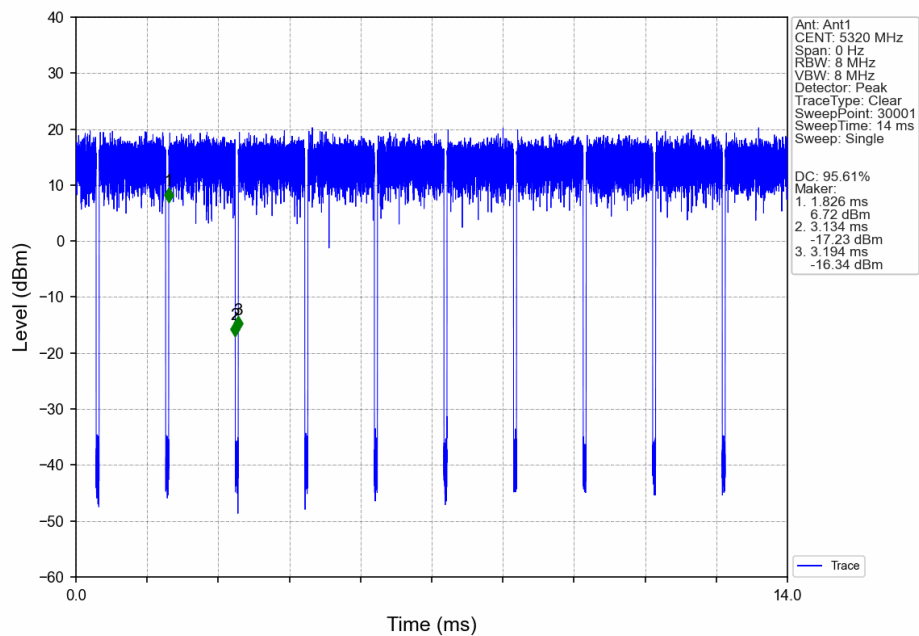


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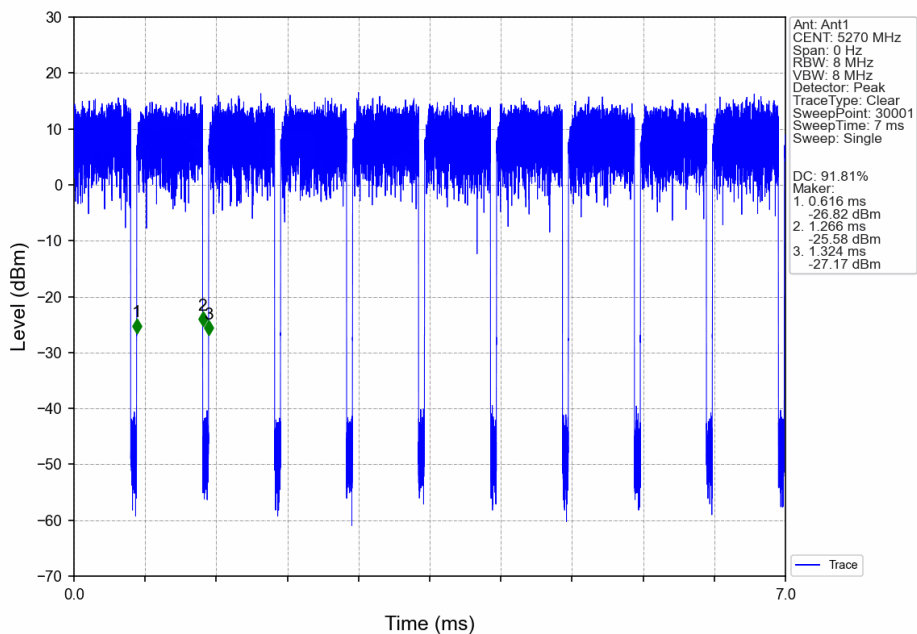


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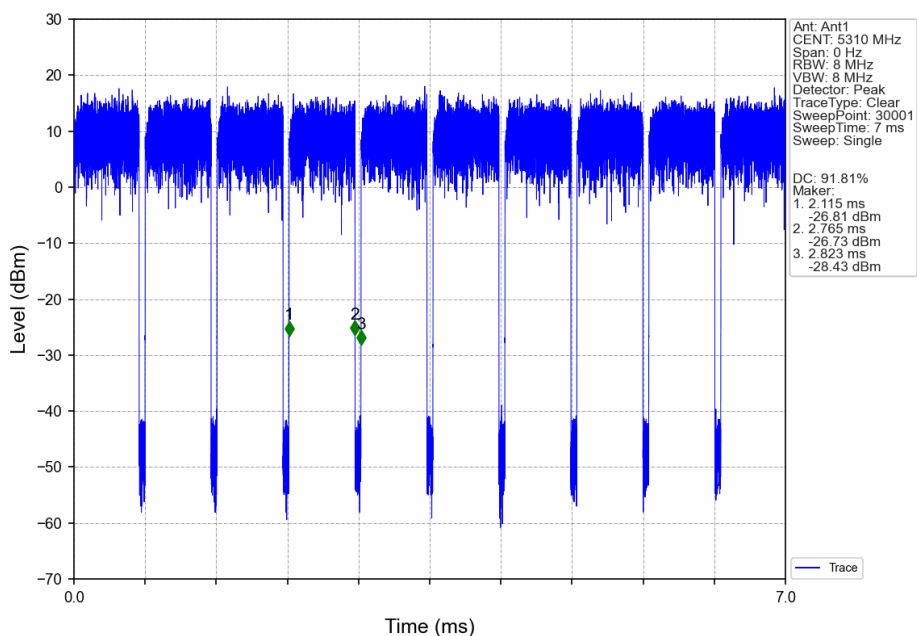


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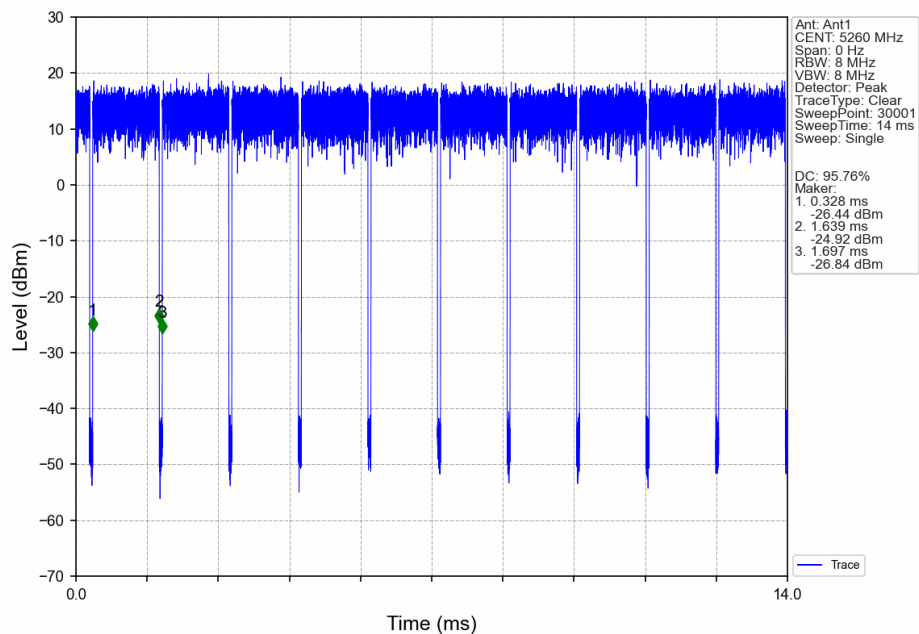


802.11n(HT40) HCH 5310MHz Ant1 NTN

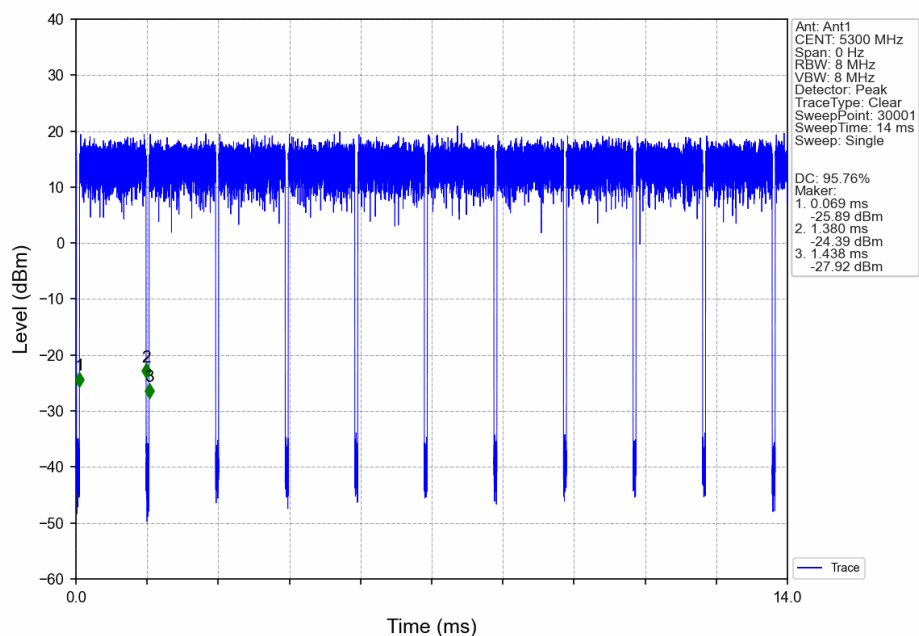


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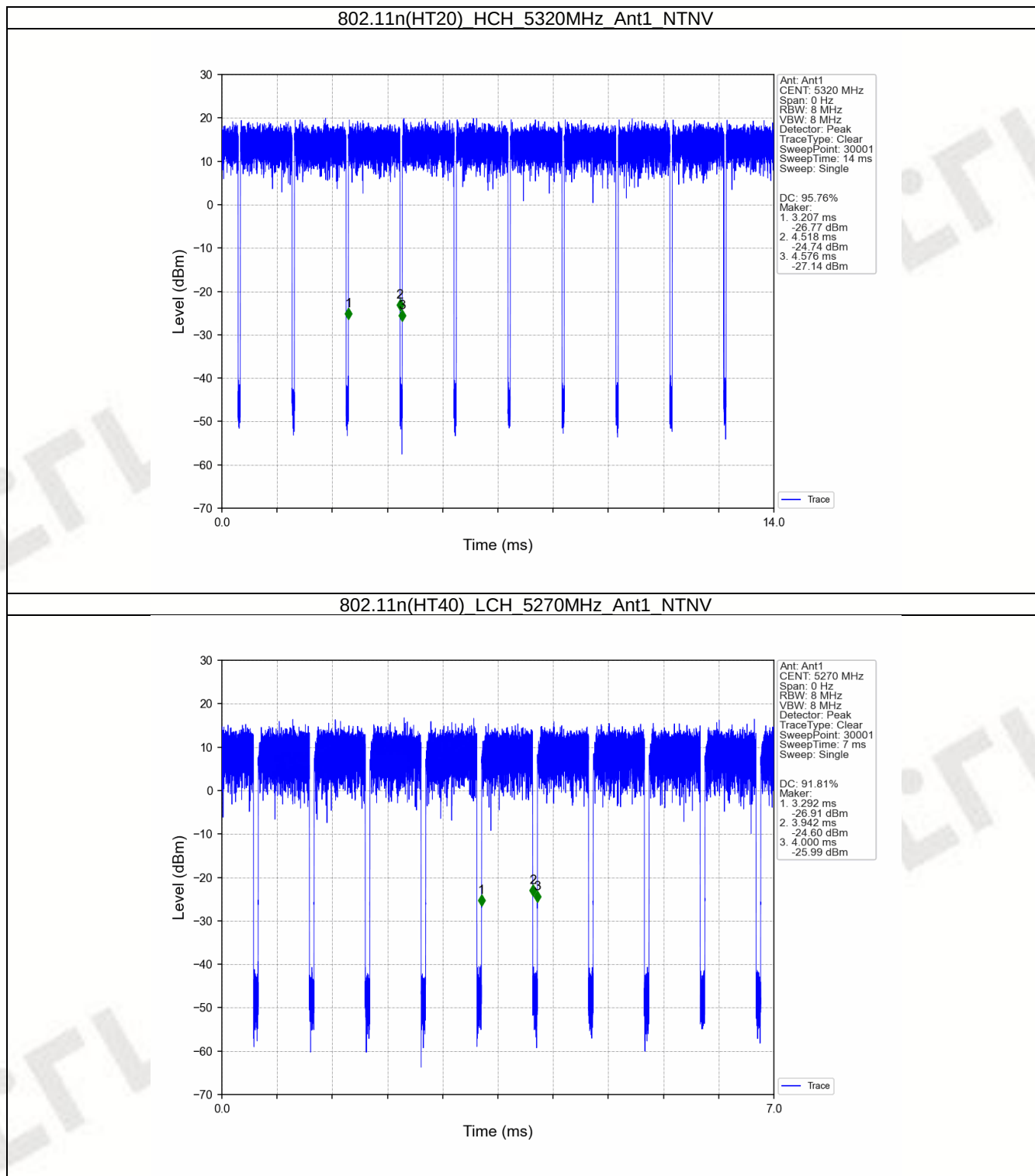
802.11n(HT20) LCH 5260MHz Ant1 NTN



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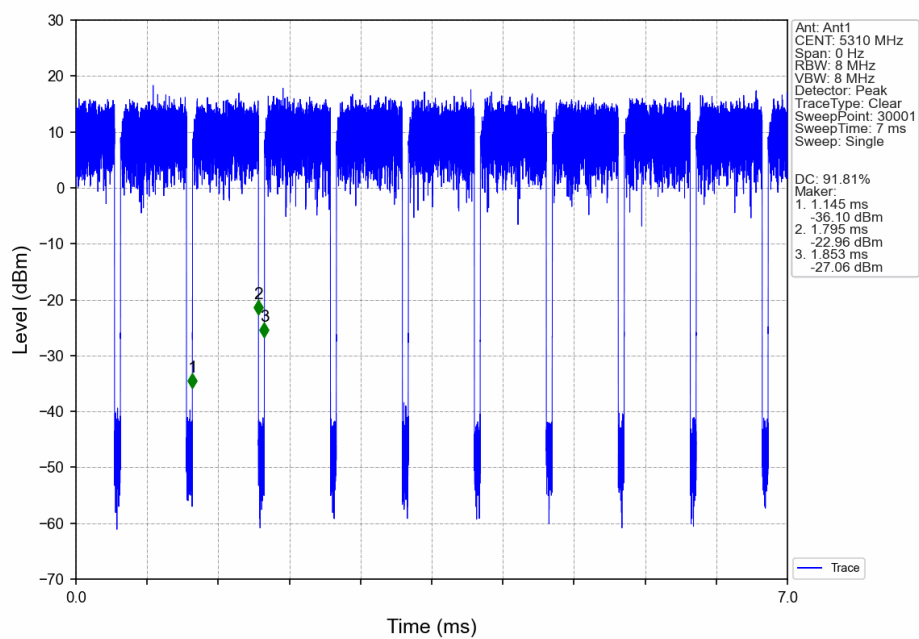


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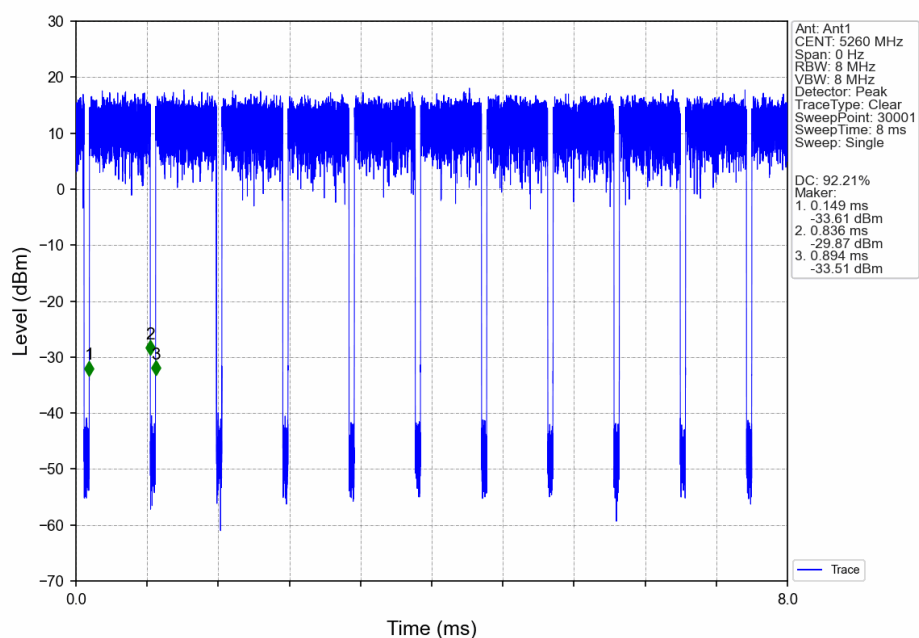


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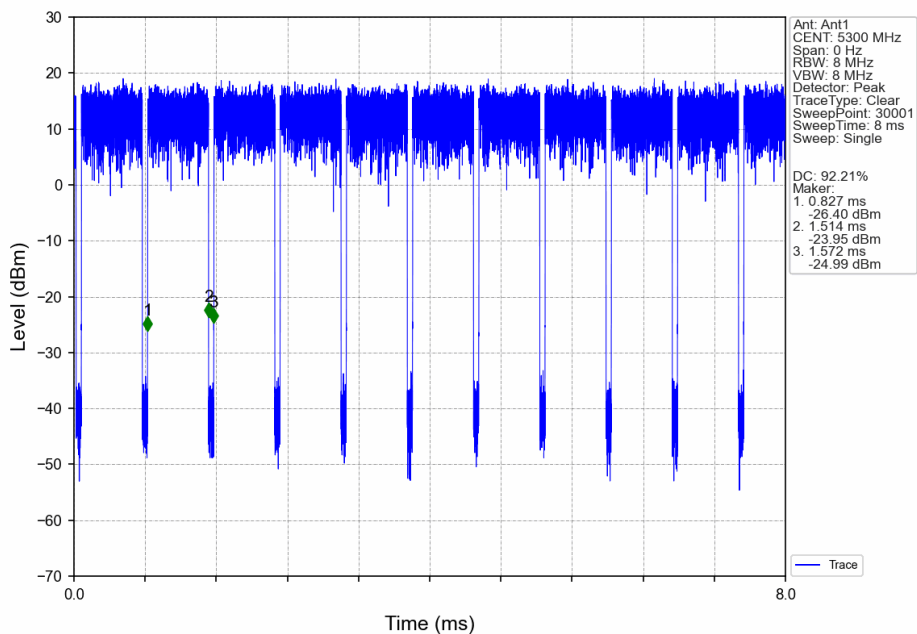


802.11ac(VHT20) LCH 5260MHz Ant1 NTN

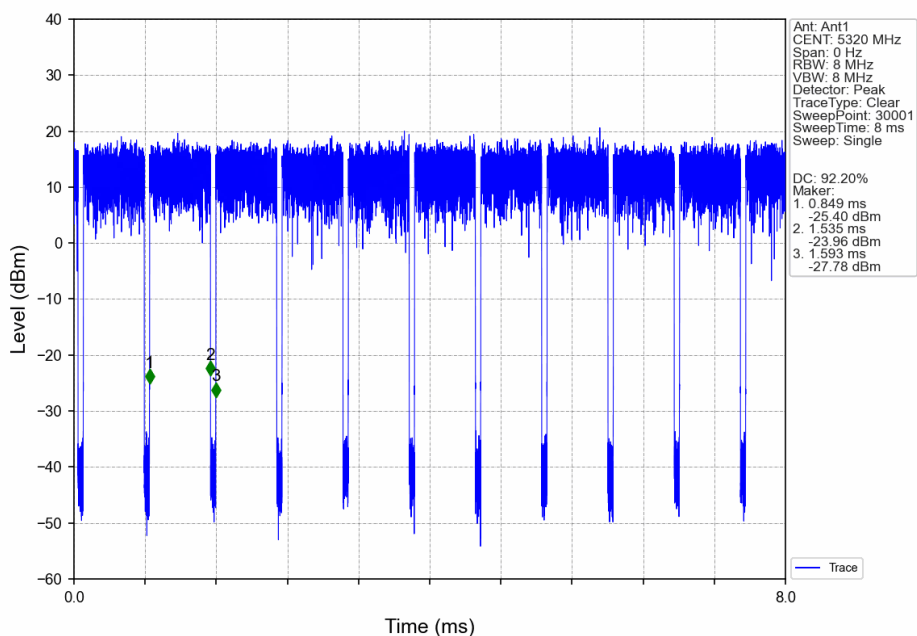


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802.11ac(VHT20) MCH 5300MHz Ant1 NTN

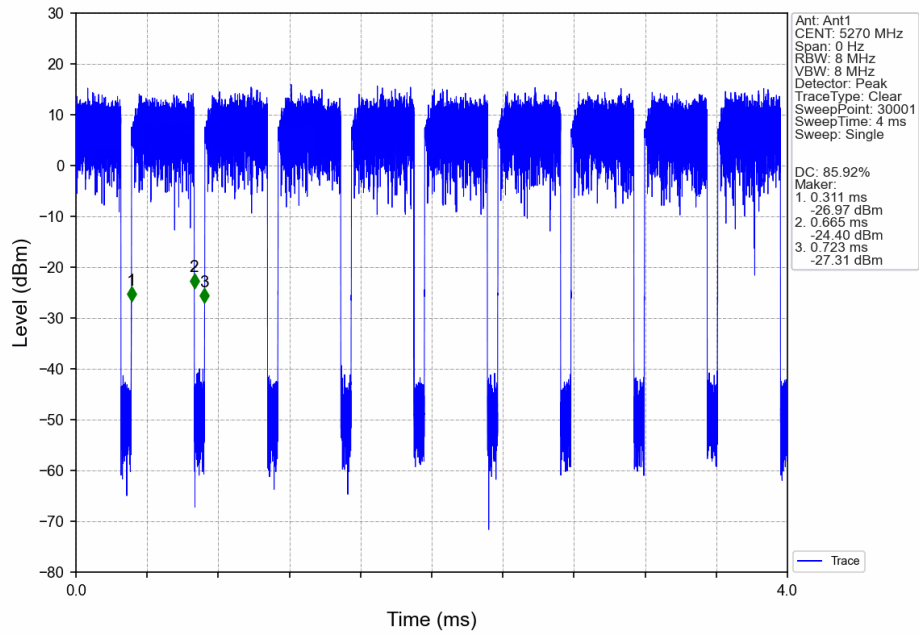


802.11ac(VHT20) HCH 5320MHz Ant1 NTN

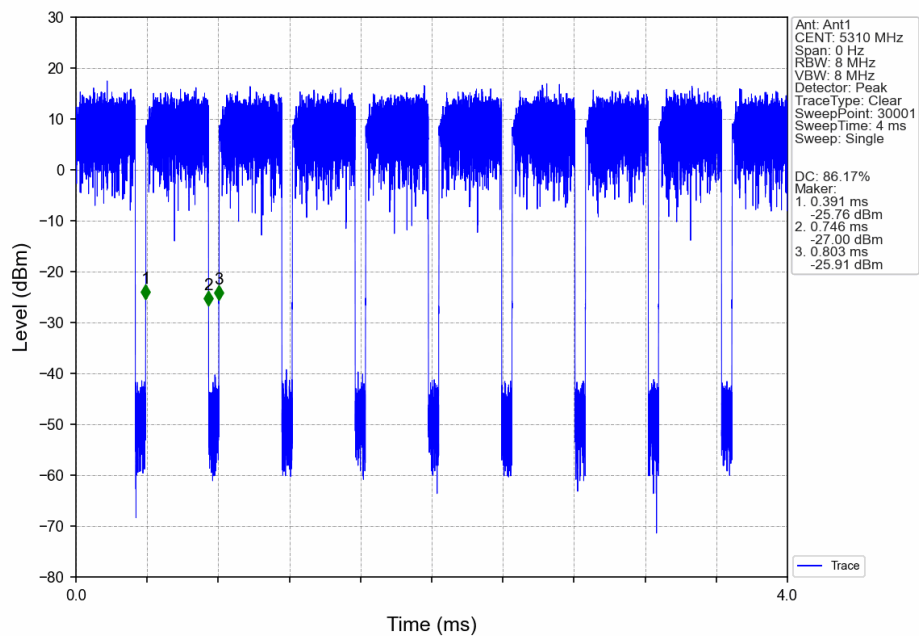


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802.11ac(VHT40) LCH 5270MHz Ant1 NTN

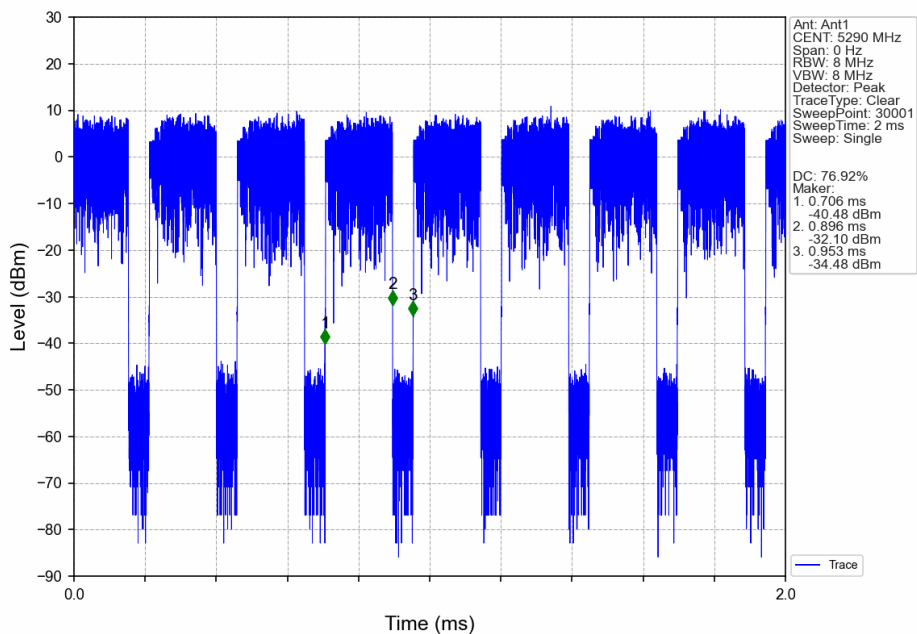


802.11ac(VHT40) HCH 5310MHz Ant1 NTN

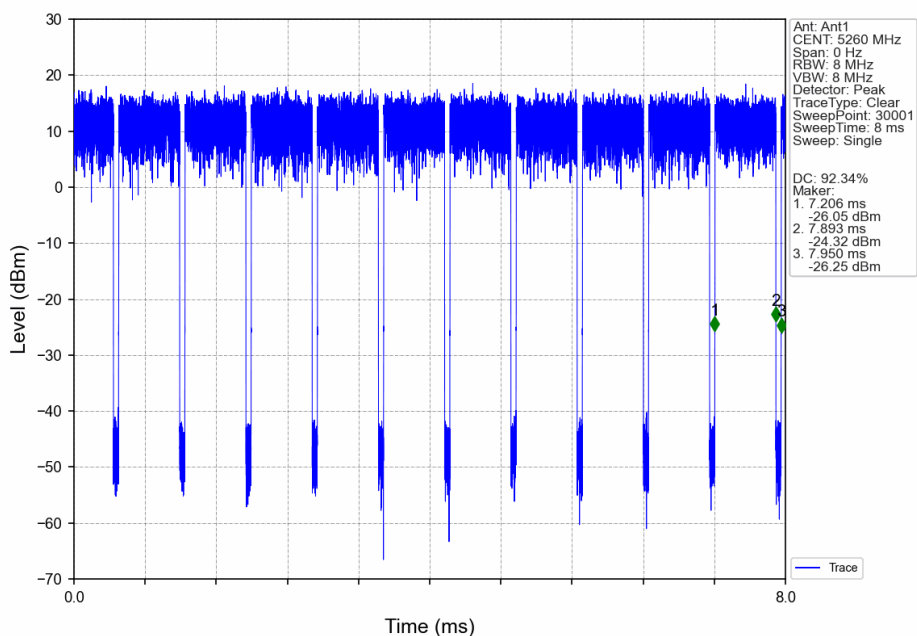


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802.11ac(VHT80) MCH 5290MHz Ant1 NTN

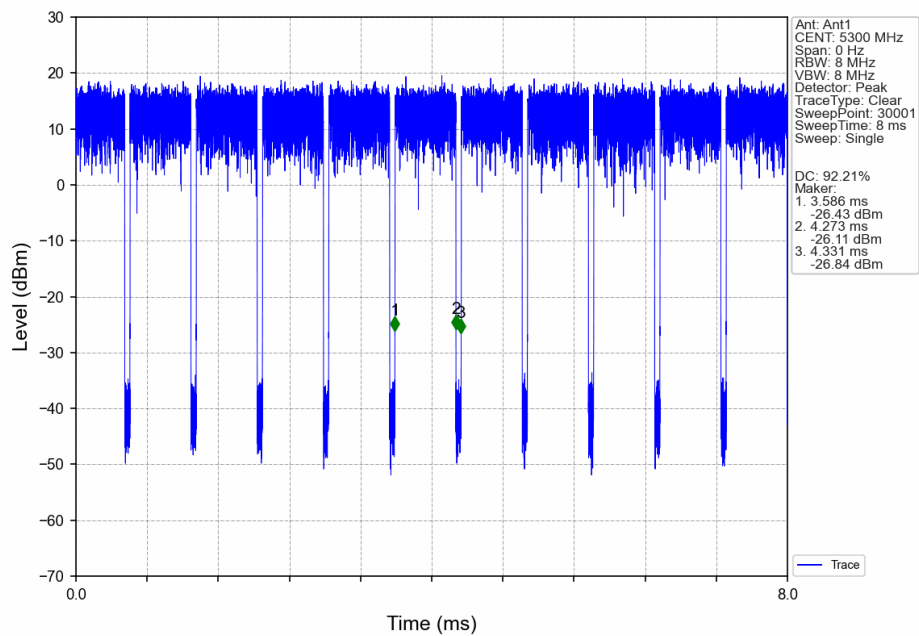


802.11ac(VHT20) LCH 5260MHz Ant1 NTN

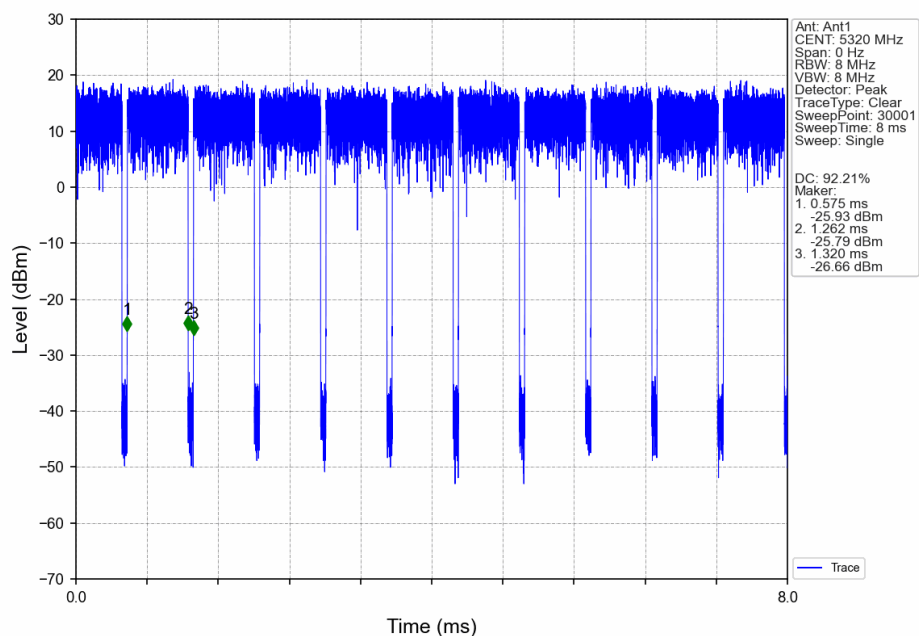


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802.11ac(VHT20) MCH 5300MHz Ant1 NTN

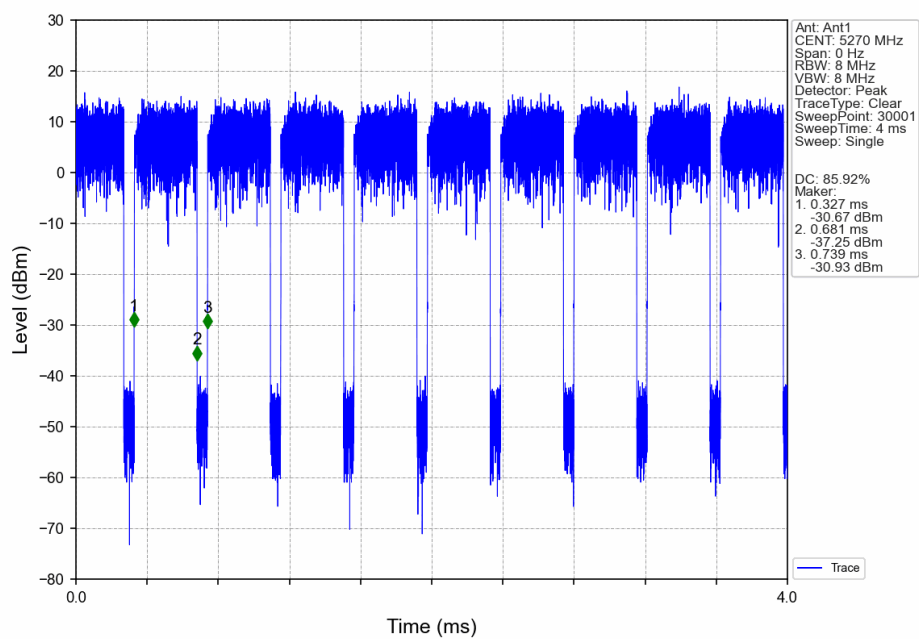


802.11ac(VHT20) HCH 5320MHz Ant1 NTN

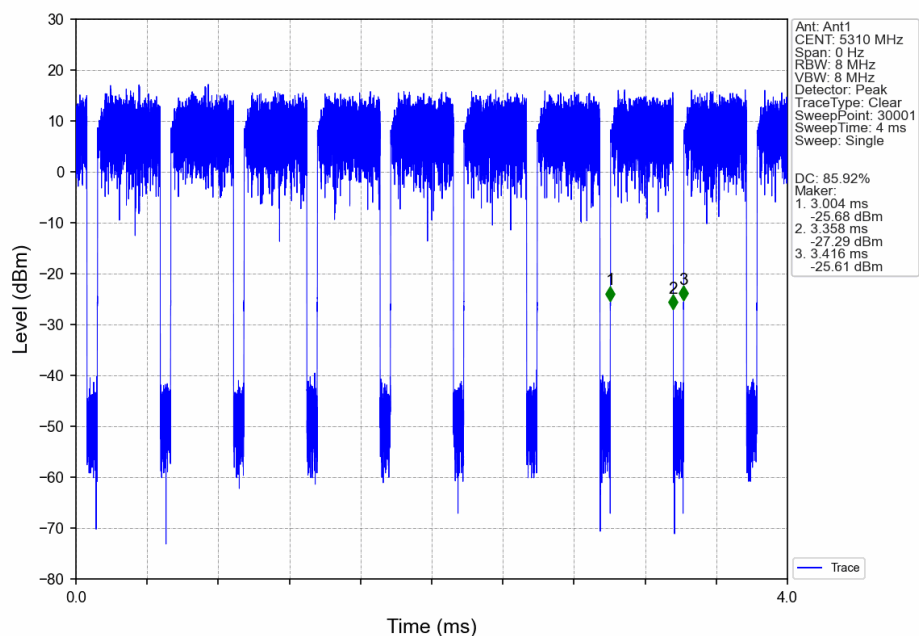


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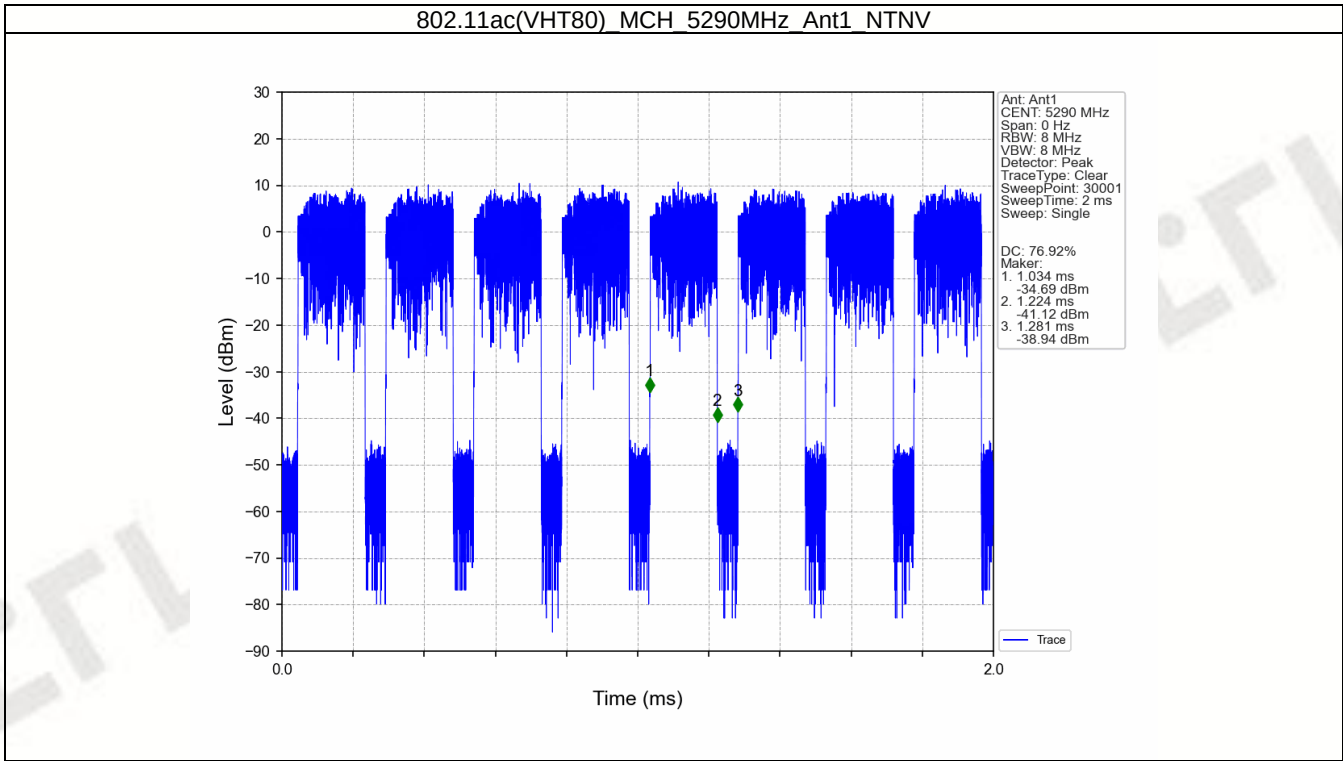
802.11ac(VHT40) LCH 5270MHz Ant1 NTNV



802.11ac(VHT40) HCH 5310MHz Ant1 NTNV

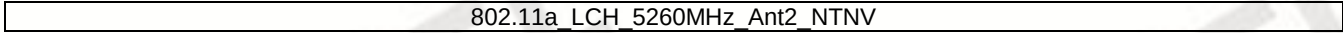


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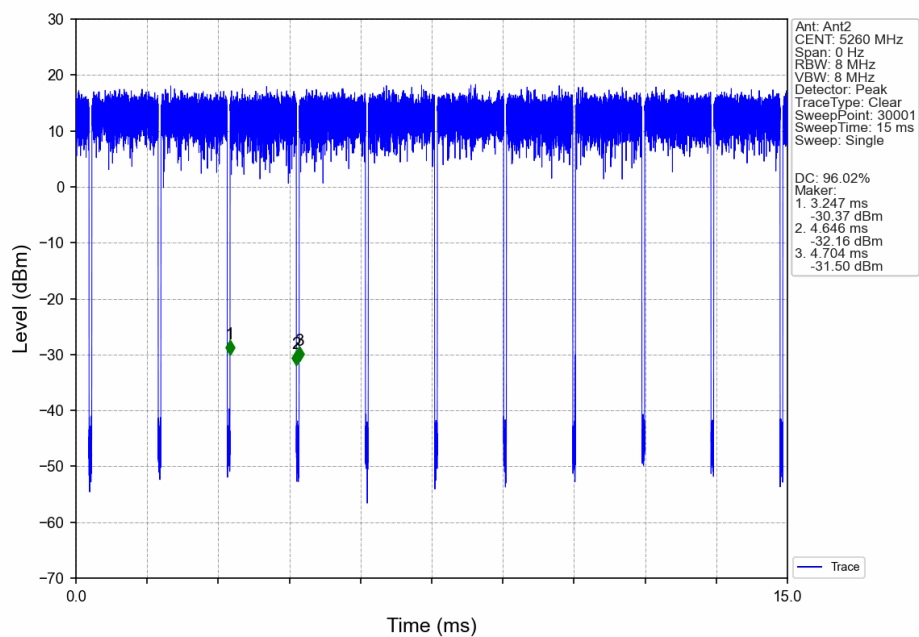


1.2 Test Graph

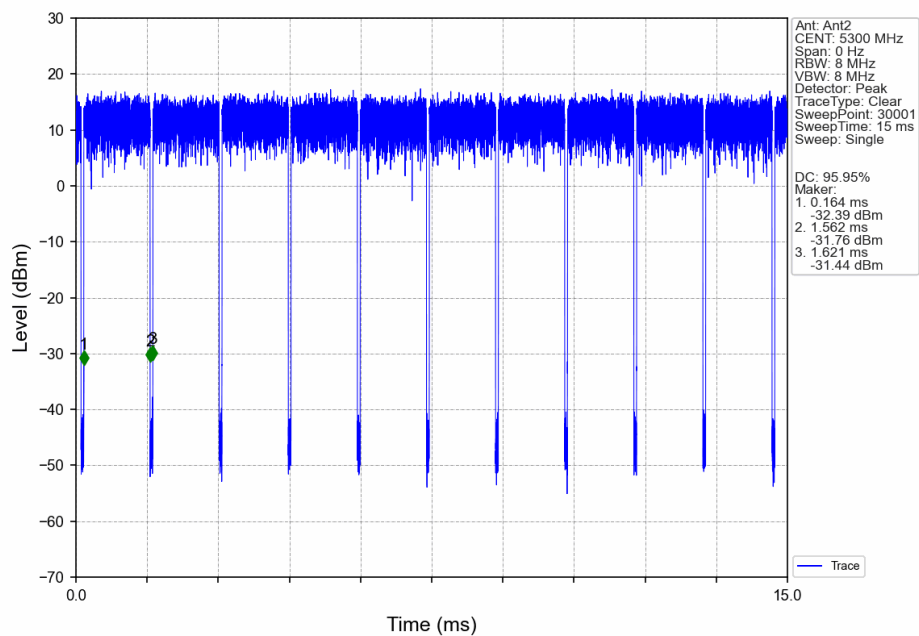
1.2.2 Ant2



FCCID: 2AYHD-SR01

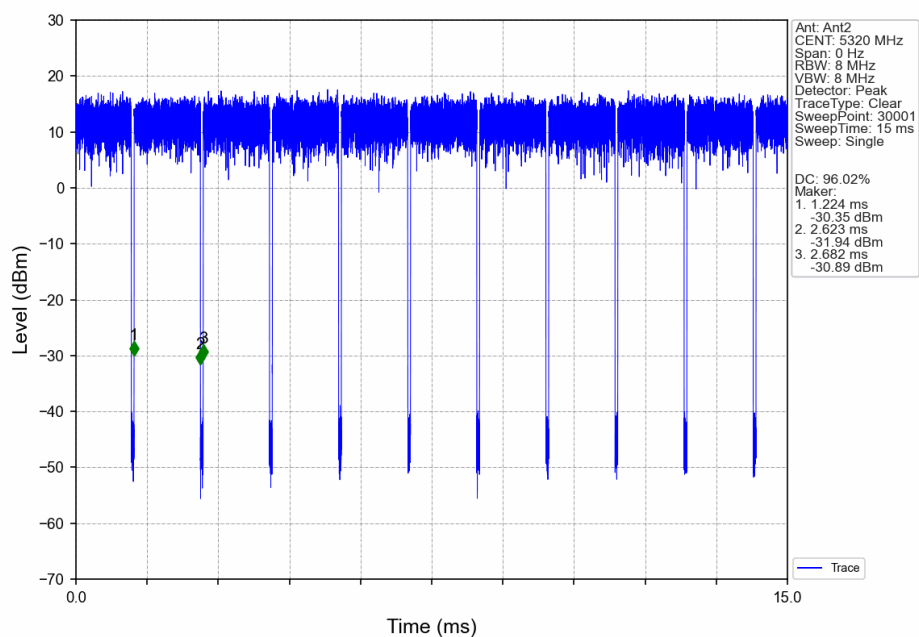


802.11a_MCH_5300MHz_Ant2_NTNV

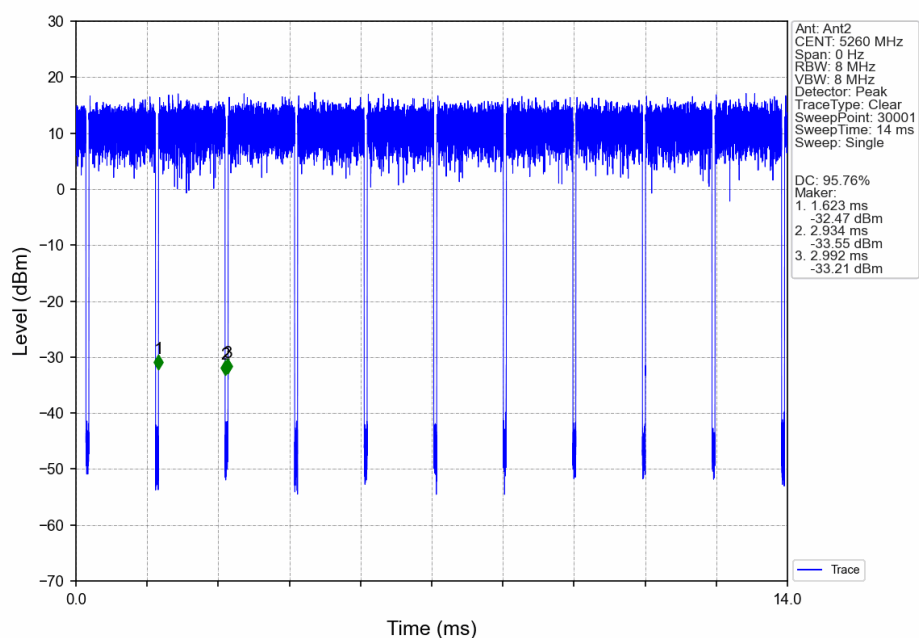


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802.11a HCH 5320MHz Ant2 NTN

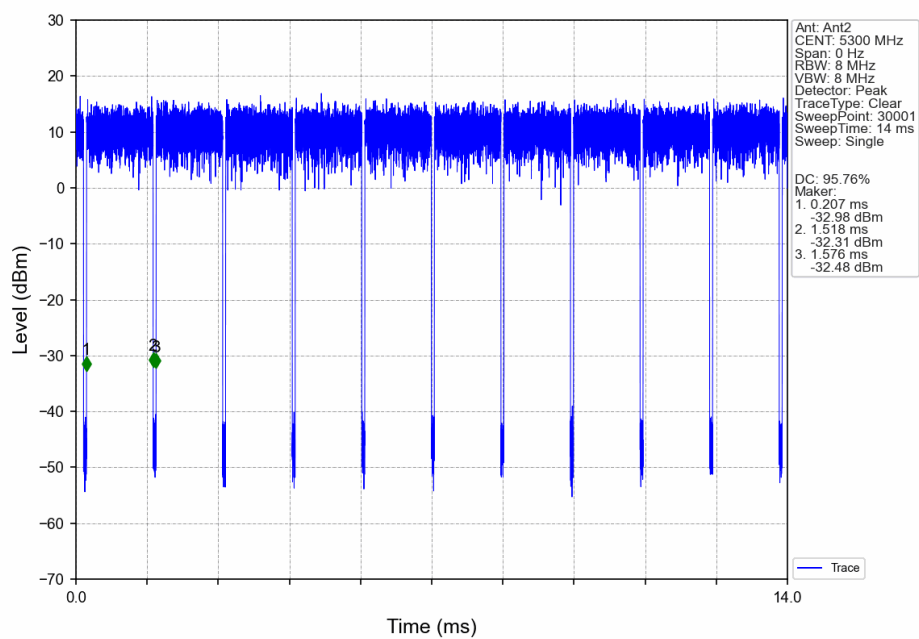


802.11n(HT20) LCH 5260MHz Ant2 NTN

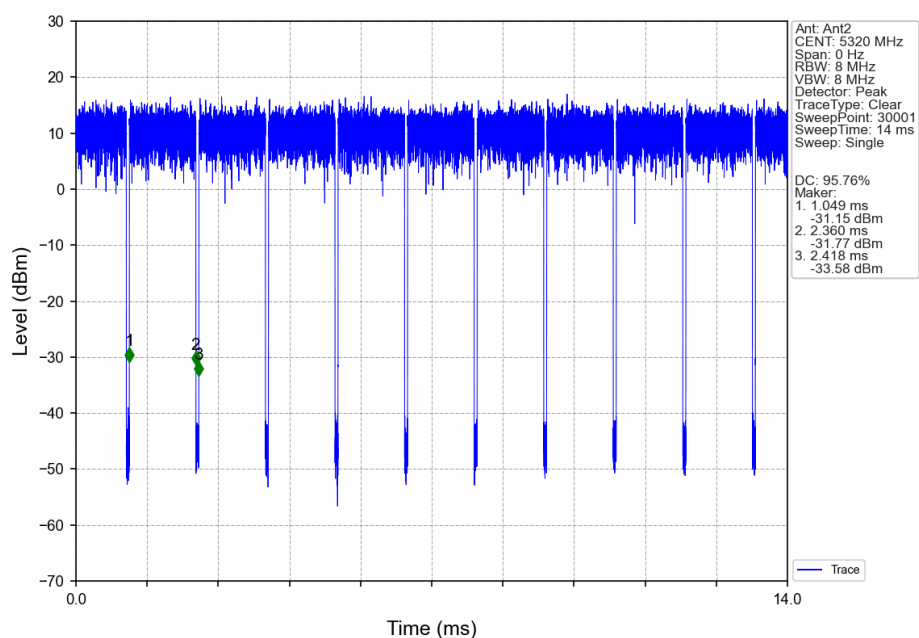


FCCID: 2AYHD-SR01

802.11n(HT20) MCH 5300MHz Ant2 NTN

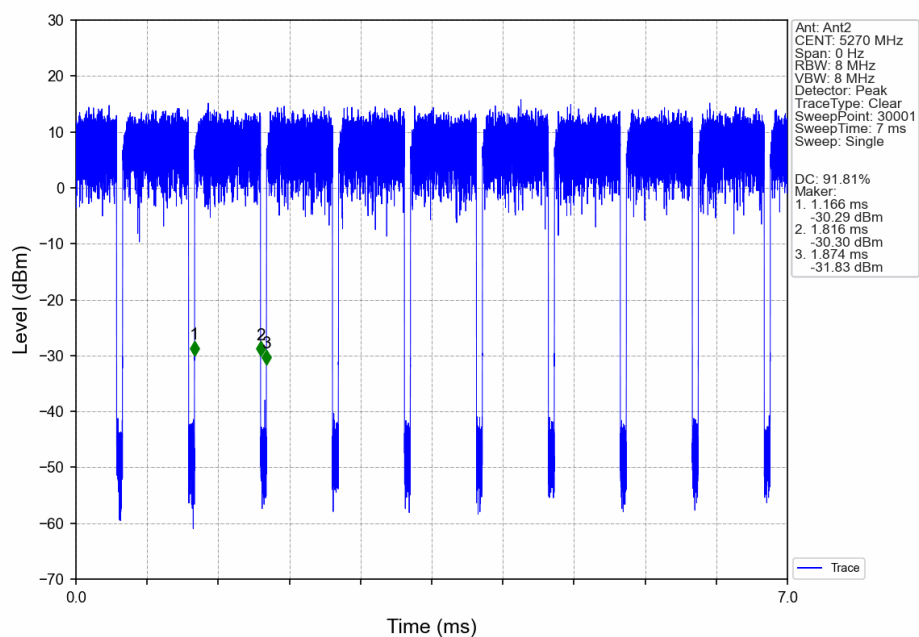


802.11n(HT20) HCH 5320MHz Ant2 NTN

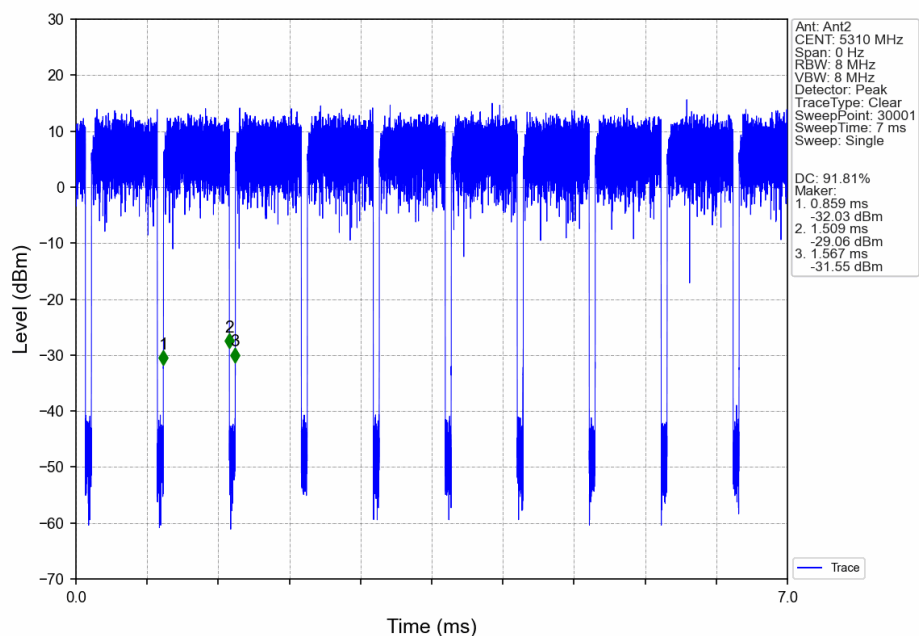


FCCID: 2AYHD-SR01

802.11n(HT40) LCH 5270MHz Ant2 NTN

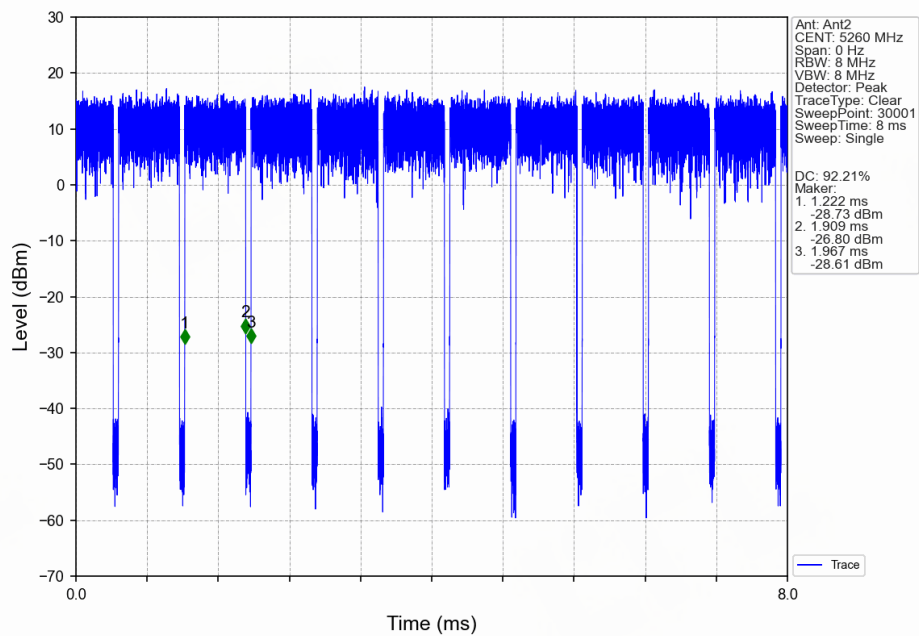


802.11n(HT40) HCH 5310MHz Ant2 NTN

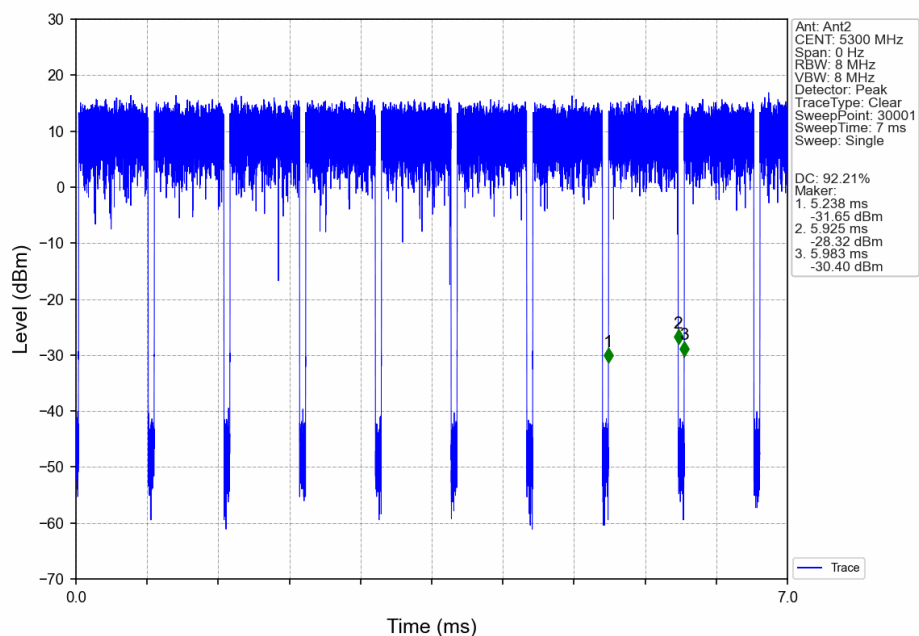


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802.11ac(VHT20) LCH 5260MHz Ant2 NTN

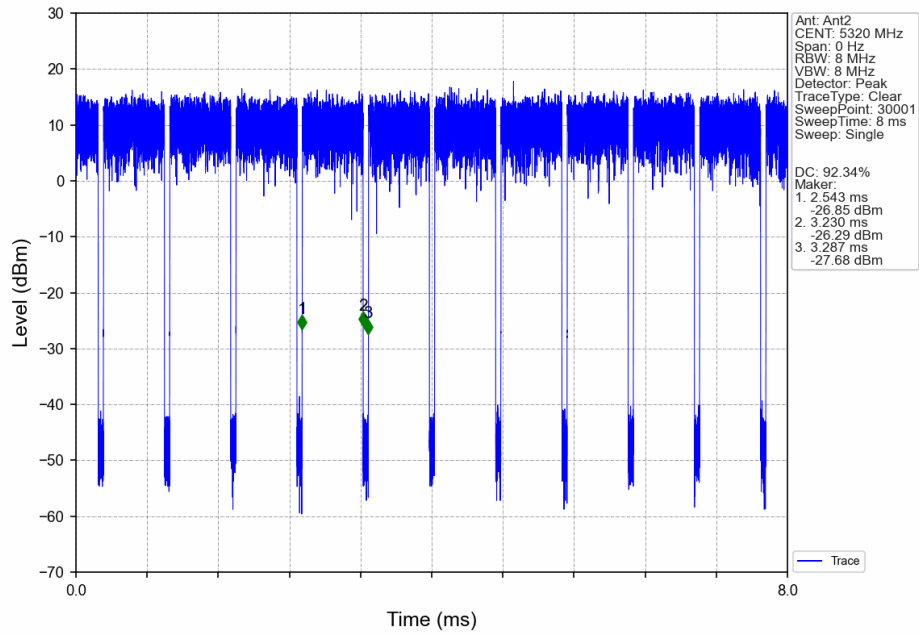


802.11ac(VHT20) MCH 5300MHz Ant2 NTN

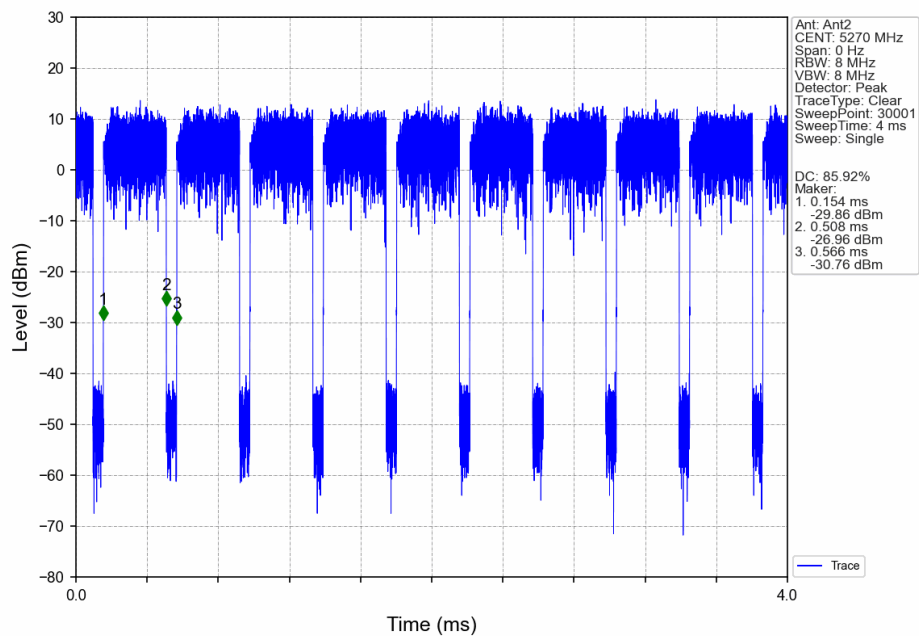


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802.11ac(VHT20) HCH 5320MHz Ant2 NTN

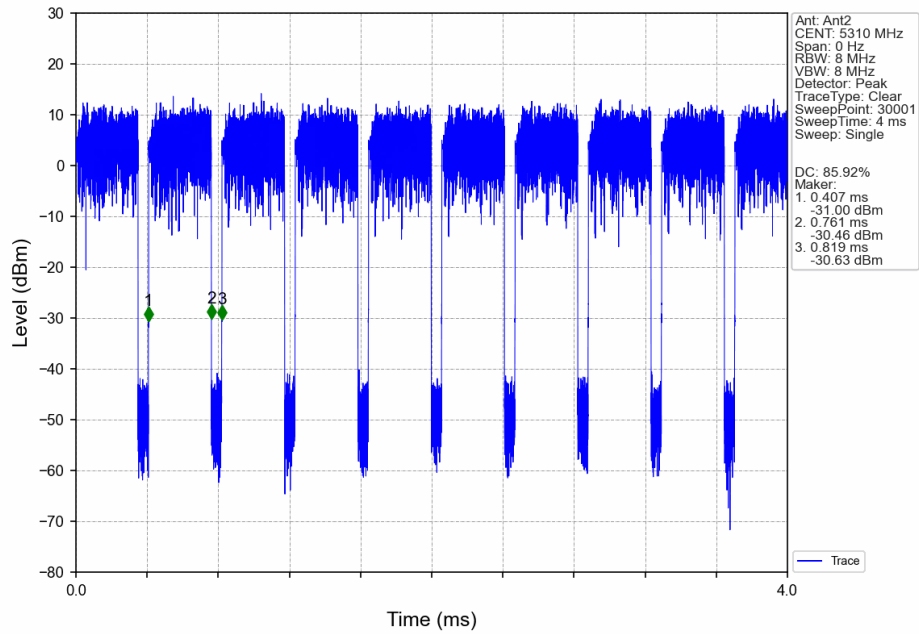


802.11ac(VHT40) LCH 5270MHz Ant2 NTN

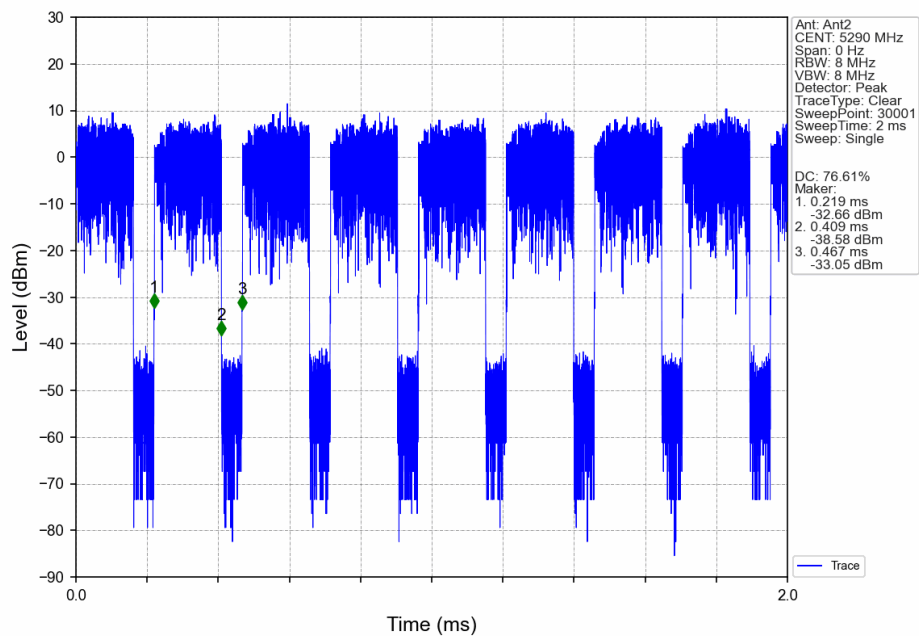


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802.11ac(VHT40) HCH 5310MHz Ant2 NTN



802.11ac(VHT80) MCH 5290MHz Ant2 NTN



FCCID: 2AYHD-SR01

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	17.964	/	Pass
		5300	1	18.025	/	Pass
		5320	1	17.925	/	Pass
802.11n (HT20)	SISO	5260	1	18.020	/	Pass
		5300	1	18.044	/	Pass
		5320	1	18.017	/	Pass
802.11n (HT40)	SISO	5270	1	36.219	/	Pass
		5310	1	36.193	/	Pass
802.11n (HT20)	MIMO	5260	1	18.042	/	Pass
		5300	1	18.006	/	Pass
		5320	1	17.912	/	Pass
802.11n (HT40)	MIMO	5270	1	36.314	/	Pass
		5310	1	36.211	/	Pass
802.11ac (VHT20)	SISO	5260	1	18.041	/	Pass
		5300	1	18.033	/	Pass
		5320	1	18.054	/	Pass
802.11ac (VHT40)	SISO	5270	1	36.222	/	Pass
		5310	1	36.149	/	Pass
802.11ac (VHT80)	SISO	5290	1	75.685	/	Pass
802.11ac (VHT20)	MIMO	5260	1	18.103	/	Pass
		5300	1	18.016	/	Pass
		5320	1	17.918	/	Pass
802.11ac (VHT40)	MIMO	5270	1	36.250	/	Pass
		5310	1	36.143	/	Pass
802.11ac (VHT80)	MIMO	5290	1	75.830	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5260	1	20.514	/	Pass
		5300	1	20.492	/	Pass
		5320	1	20.625	/	Pass
802.11n (HT20)	SISO	5260	1	20.623	/	Pass
		5300	1	20.686	/	Pass
		5320	1	20.486	/	Pass
802.11n (HT40)	SISO	5270	1	41.333	/	Pass
		5310	1	41.471	/	Pass
802.11n (HT20)	MIMO	5260	1	20.734	/	Pass
		5300	1	21.013	/	Pass
		5320	1	20.671	/	Pass

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802.11n (HT40)	MIMO	5270	1	40.908	/	Pass
		5310	1	41.046	/	Pass
802.11ac (VHT20)	SISO	5260	1	20.383	/	Pass
		5300	1	20.405	/	Pass
		5320	1	20.574	/	Pass
802.11ac (VHT40)	SISO	5270	1	41.456	/	Pass
		5310	1	40.927	/	Pass
802.11ac (VHT80)	SISO	5290	1	81.602	/	Pass
802.11ac (VHT20)	MIMO	5260	1	20.665	/	Pass
		5300	1	20.585	/	Pass
		5320	1	20.586	/	Pass
802.11ac (VHT40)	MIMO	5270	1	41.941	/	Pass
		5310	1	41.061	/	Pass
802.11ac (VHT80)	MIMO	5290	1	81.548	/	Pass

2.1.3 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5260	2	17.086	/	Pass
		5300	2	17.203	/	Pass
		5320	2	17.126	/	Pass
802.11n (HT20)	SISO	5260	2	17.979	/	Pass
		5300	2	17.944	/	Pass
		5320	2	17.900	/	Pass
802.11n (HT40)	SISO	5270	2	36.403	/	Pass
		5310	2	36.325	/	Pass
802.11ac (VHT20)	SISO	5260	2	17.842	/	Pass
		5300	2	17.870	/	Pass
		5320	2	17.807	/	Pass
802.11ac (VHT40)	SISO	5270	2	36.401	/	Pass
		5310	2	36.198	/	Pass
802.11ac (VHT80)	SISO	5290	2	75.657	/	Pass

2.1.4 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5260	2	20.244	/	Pass
		5300	2	20.074	/	Pass
		5320	2	20.431	/	Pass
802.11n (HT20)	SISO	5260	2	20.569	/	Pass
		5300	2	20.785	/	Pass
		5320	2	20.788	/	Pass
802.11n (HT40)	SISO	5270	2	41.349	/	Pass
		5310	2	41.315	/	Pass
802.11ac (VHT20)	SISO	5260	2	20.275	/	Pass
		5300	2	20.293	/	Pass
		5320	2	20.116	/	Pass
802.11ac (VHT40)	SISO	5270	2	40.687	/	Pass
		5310	2	40.909	/	Pass

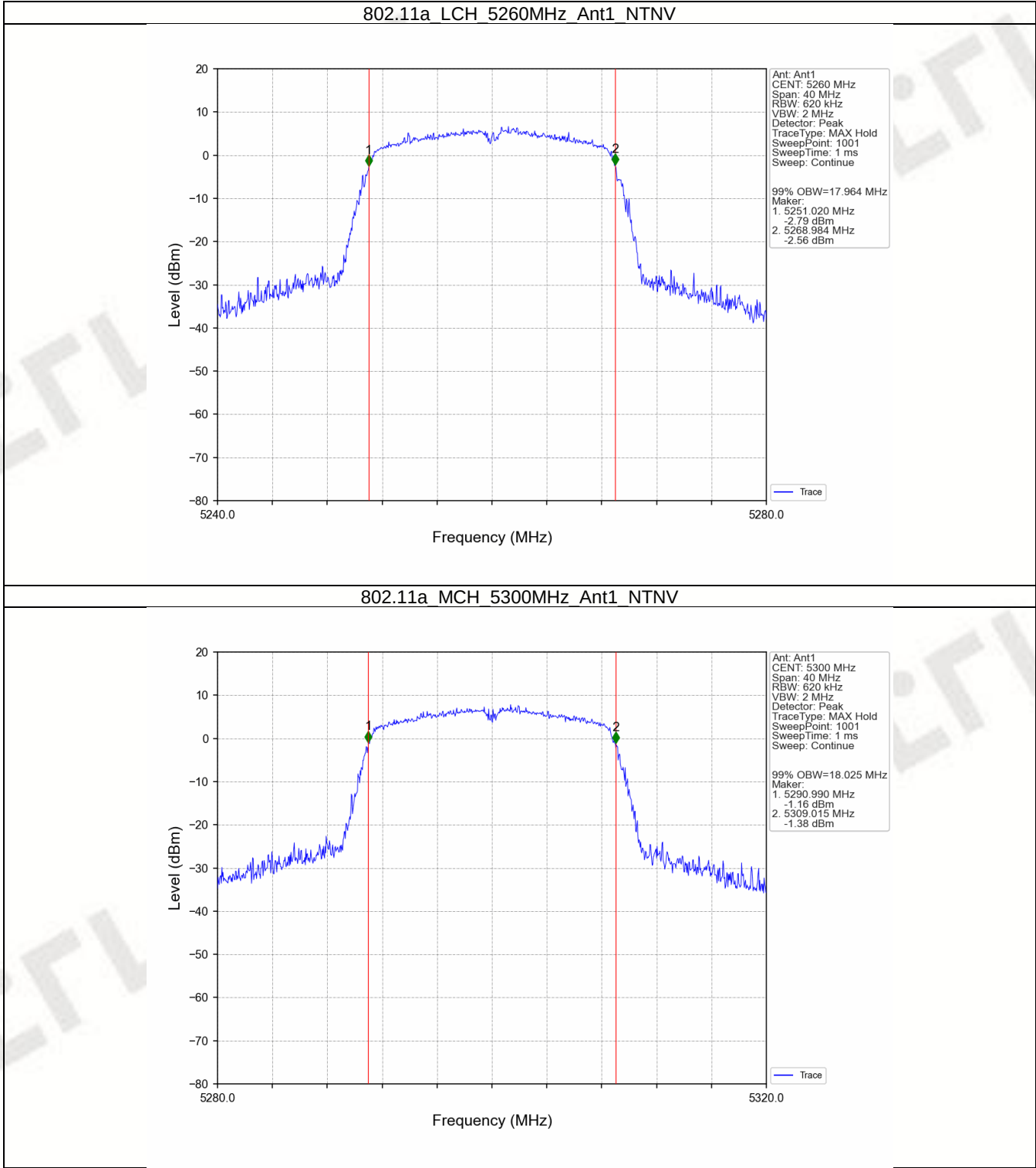
FCCID: 2AYHD-SR01

802.11ac (VHT80)	SISO	5290	2	81.103	/	Pass
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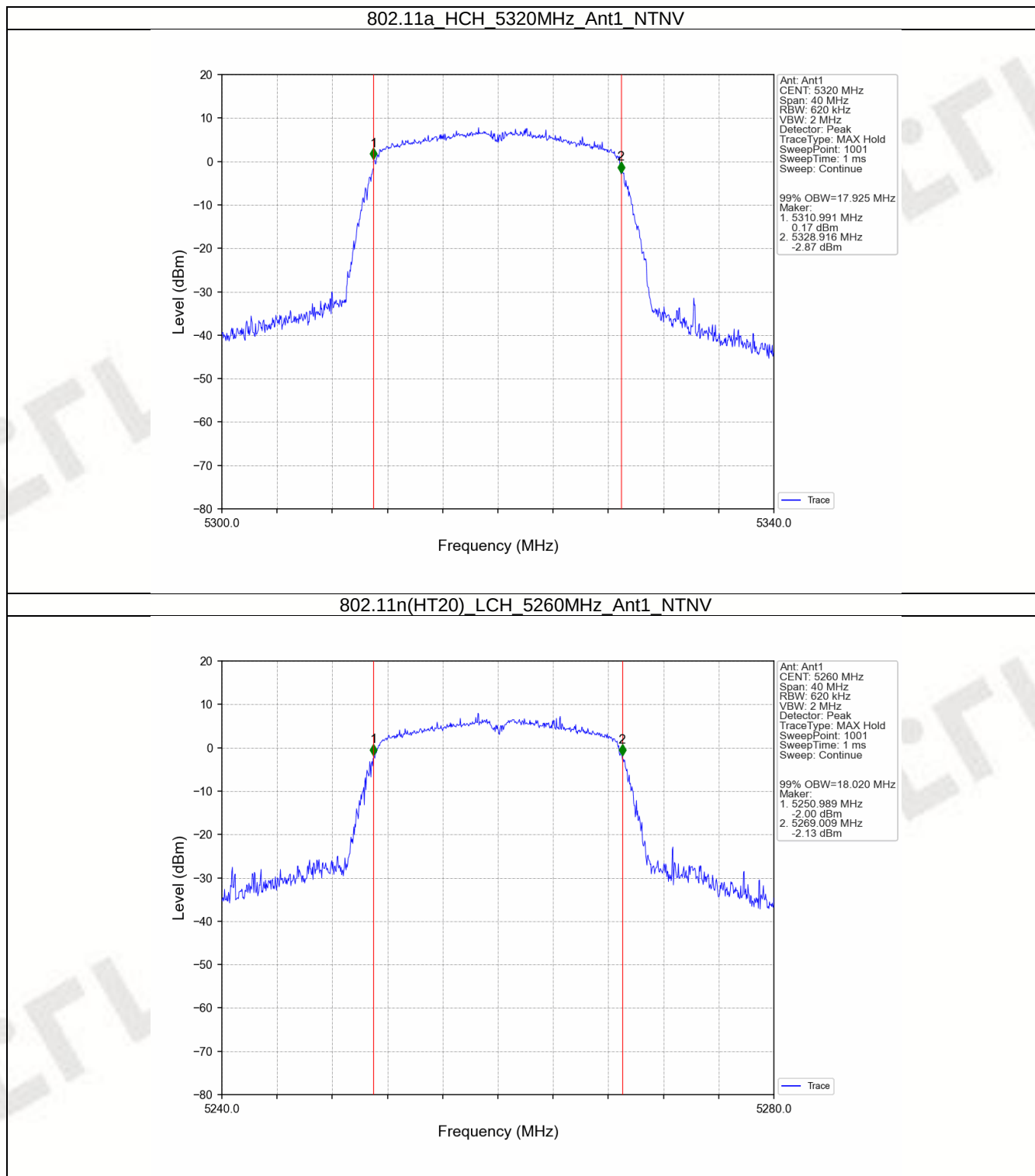
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2.2 Test Graph

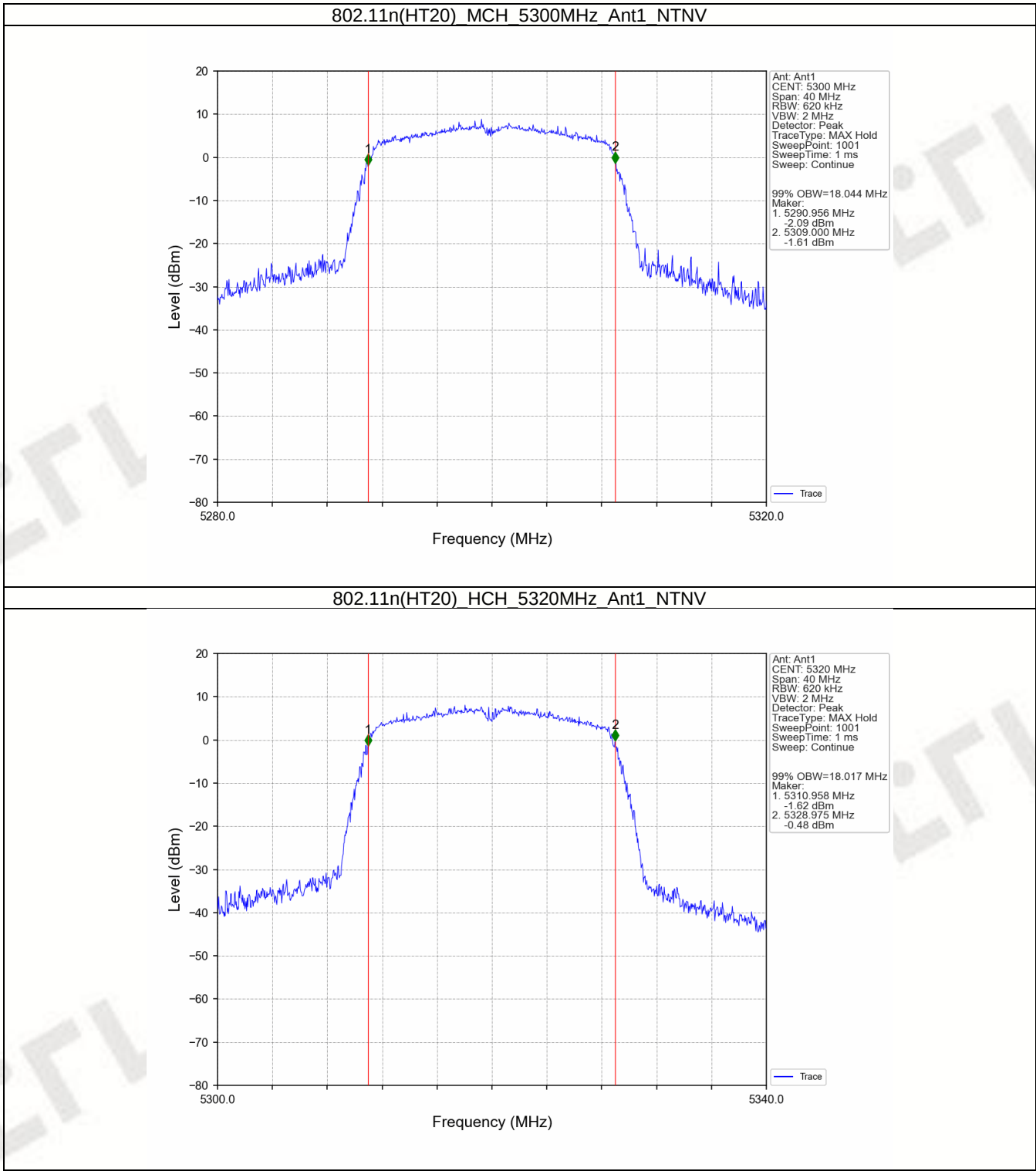
2.2.1 OBW



FCCID: 2AYHD-SR01

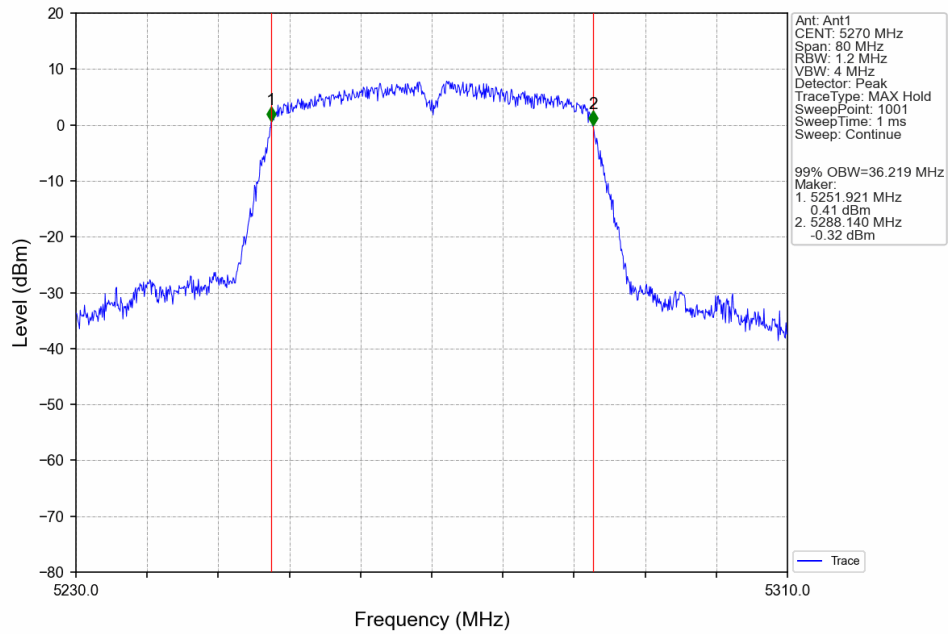


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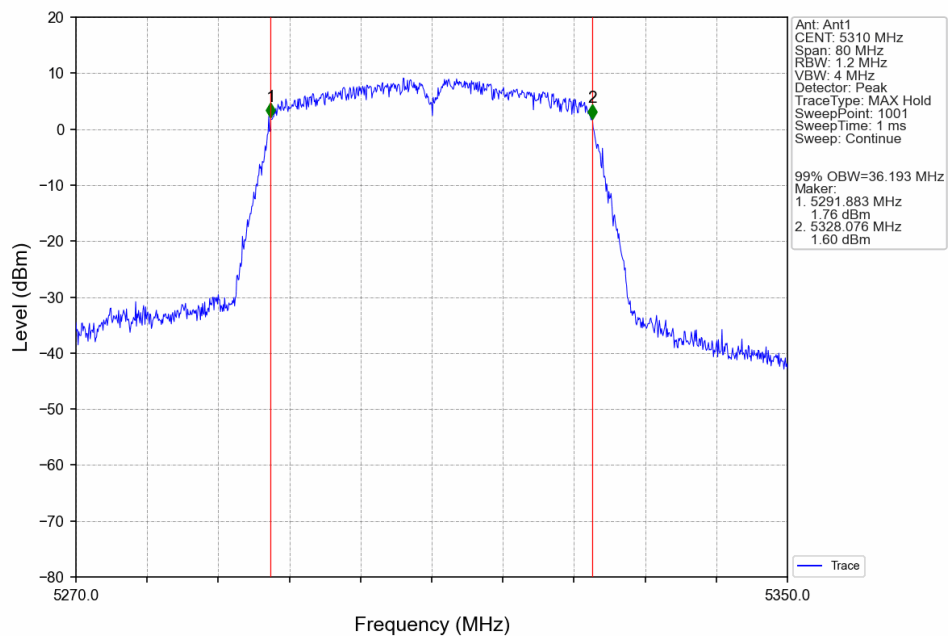


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802.11n(HT40) LCH 5270MHz Ant1 NTN

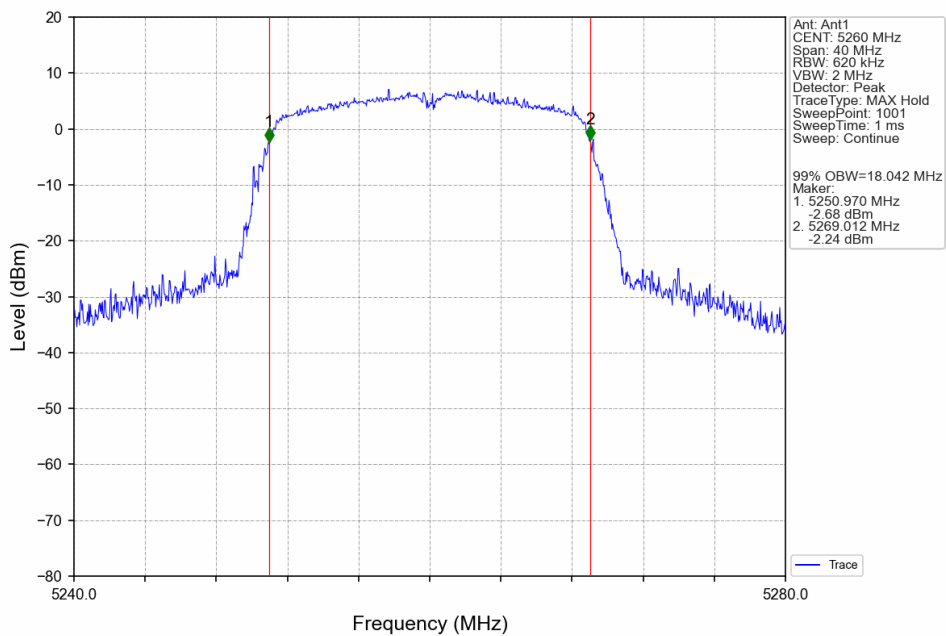


802.11n(HT40) HCH 5310MHz Ant1 NTN

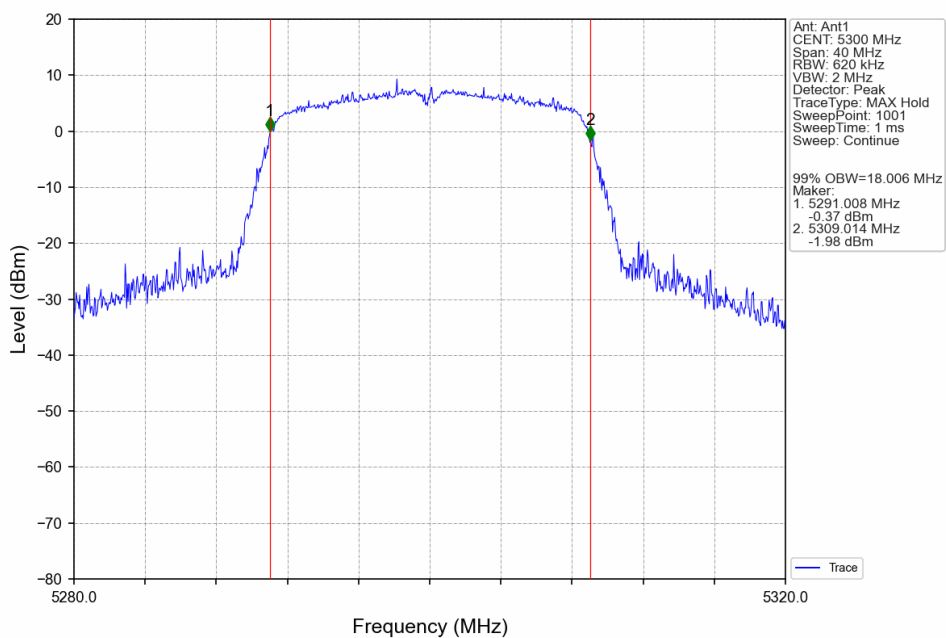


FCCID: 2AYHD-SR01

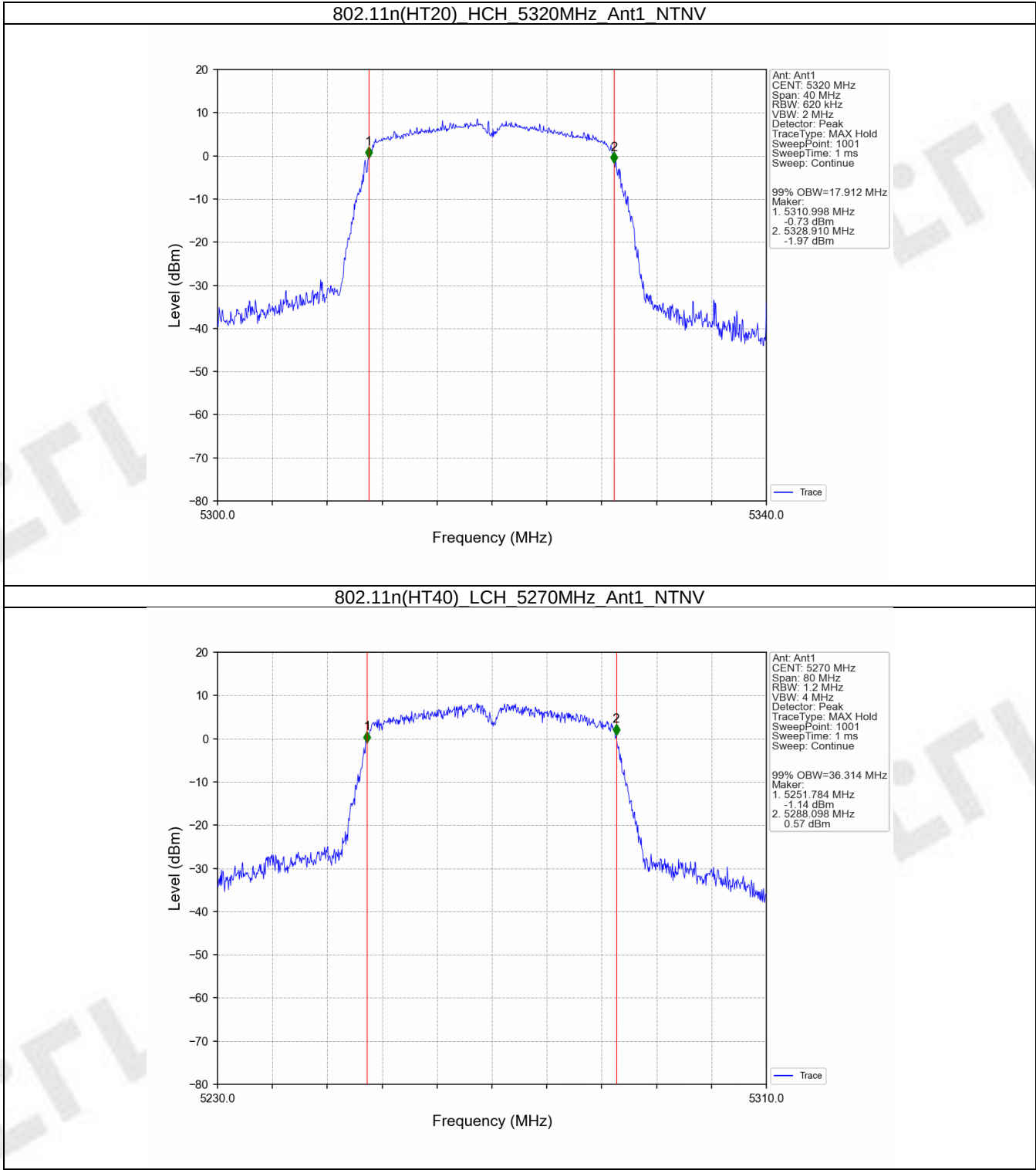
802.11n(HT20) LCH 5260MHz Ant1 NTN



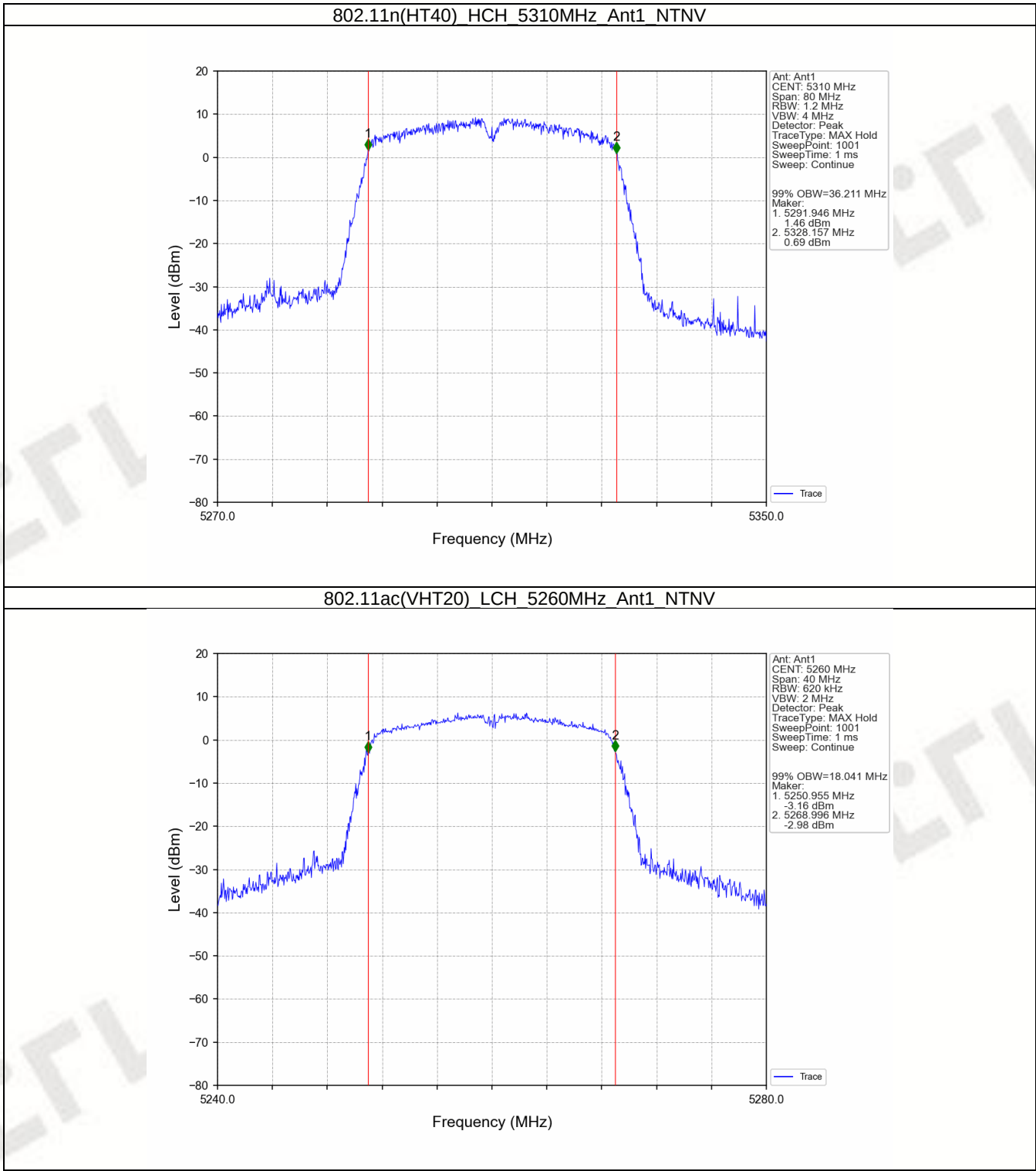
802.11n(HT20) MCH 5300MHz Ant1 NTN



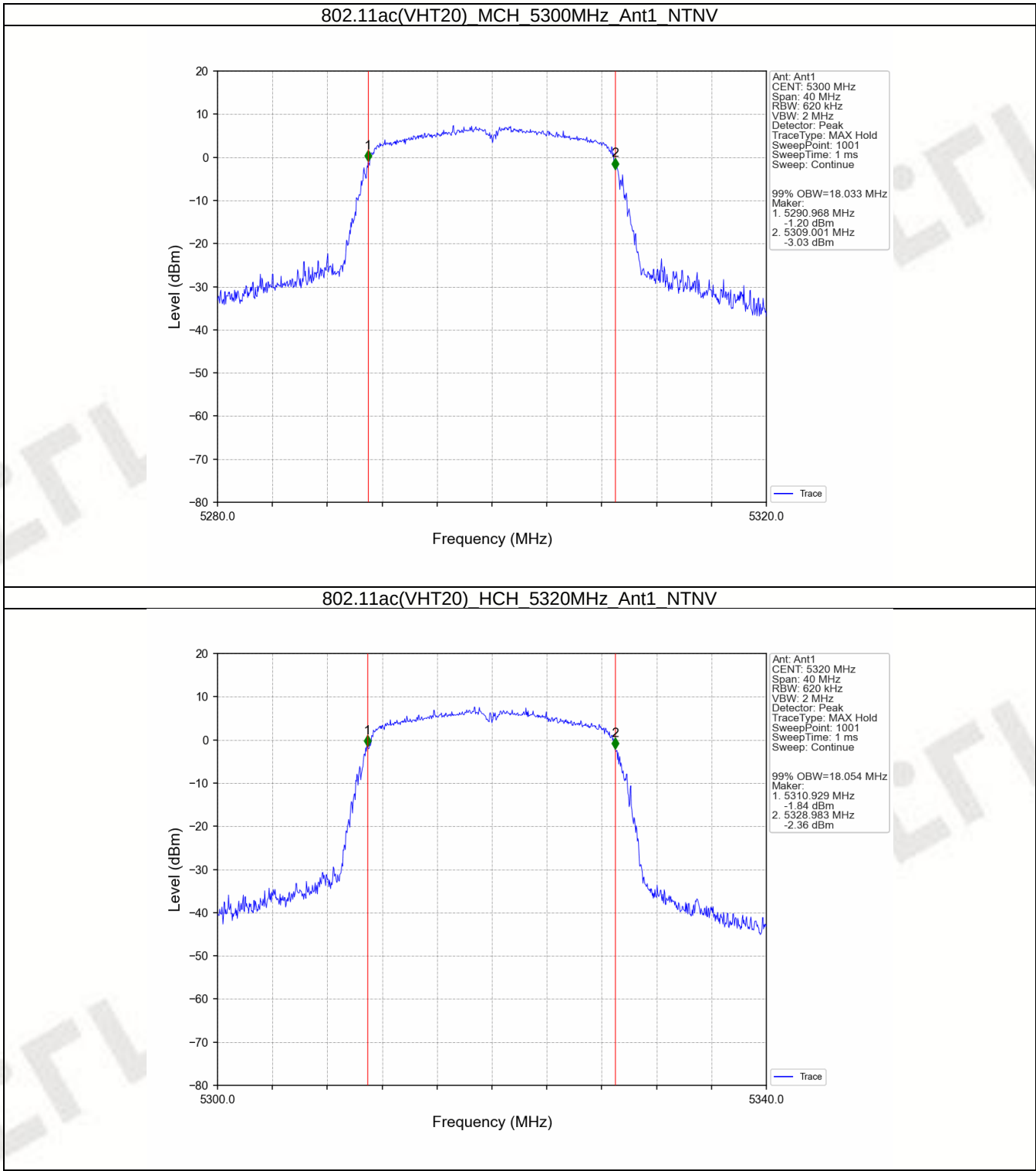
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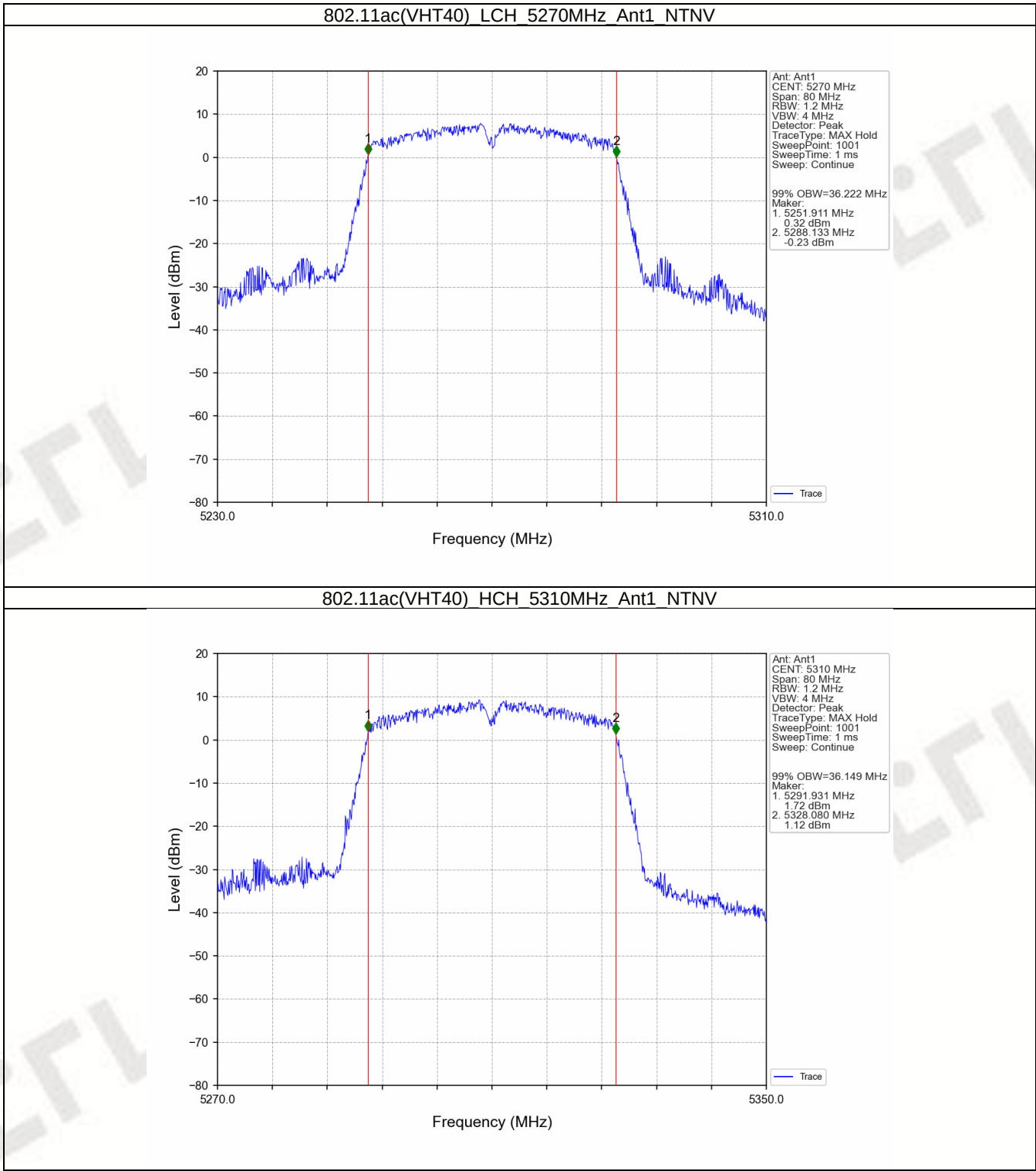
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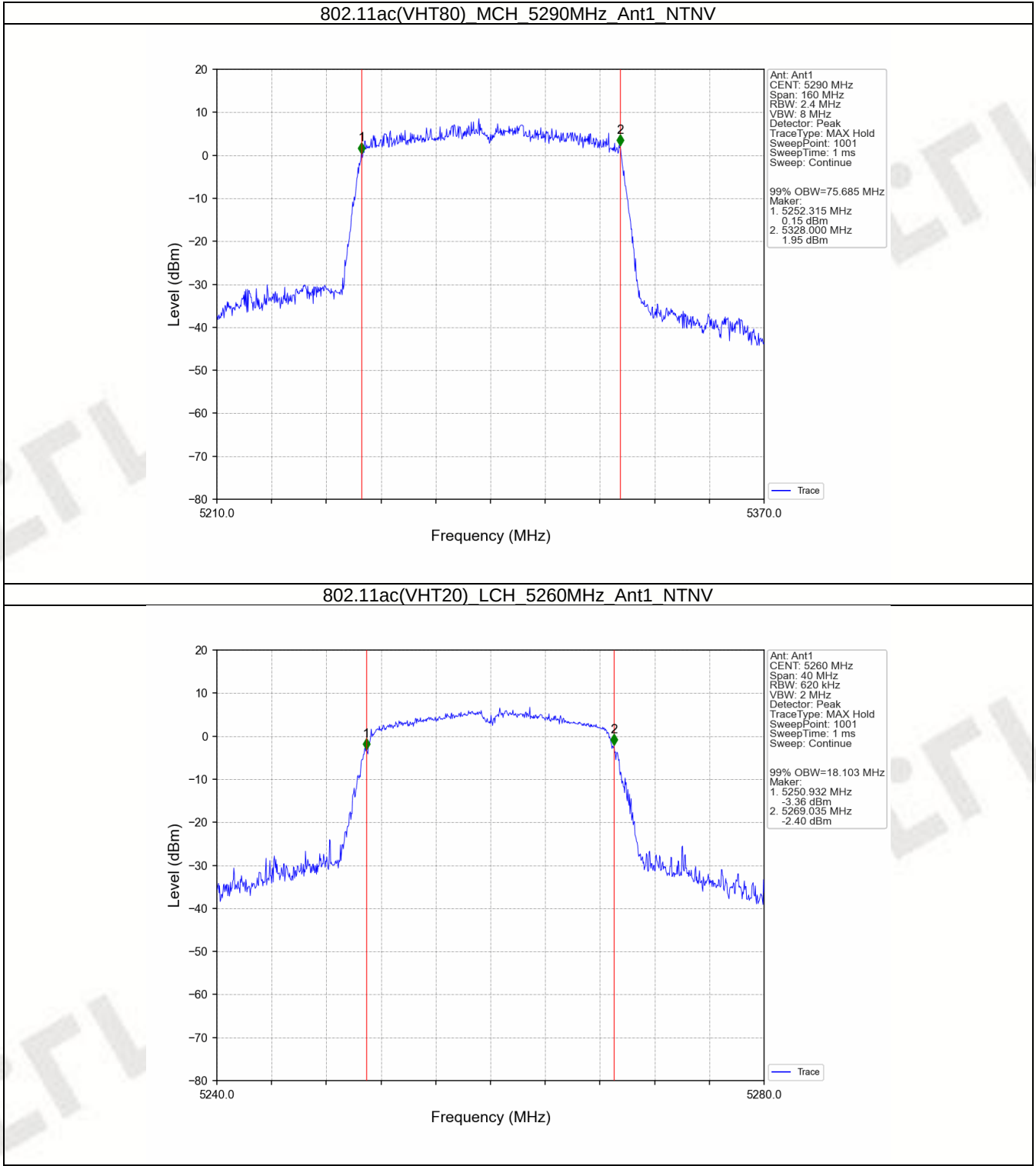
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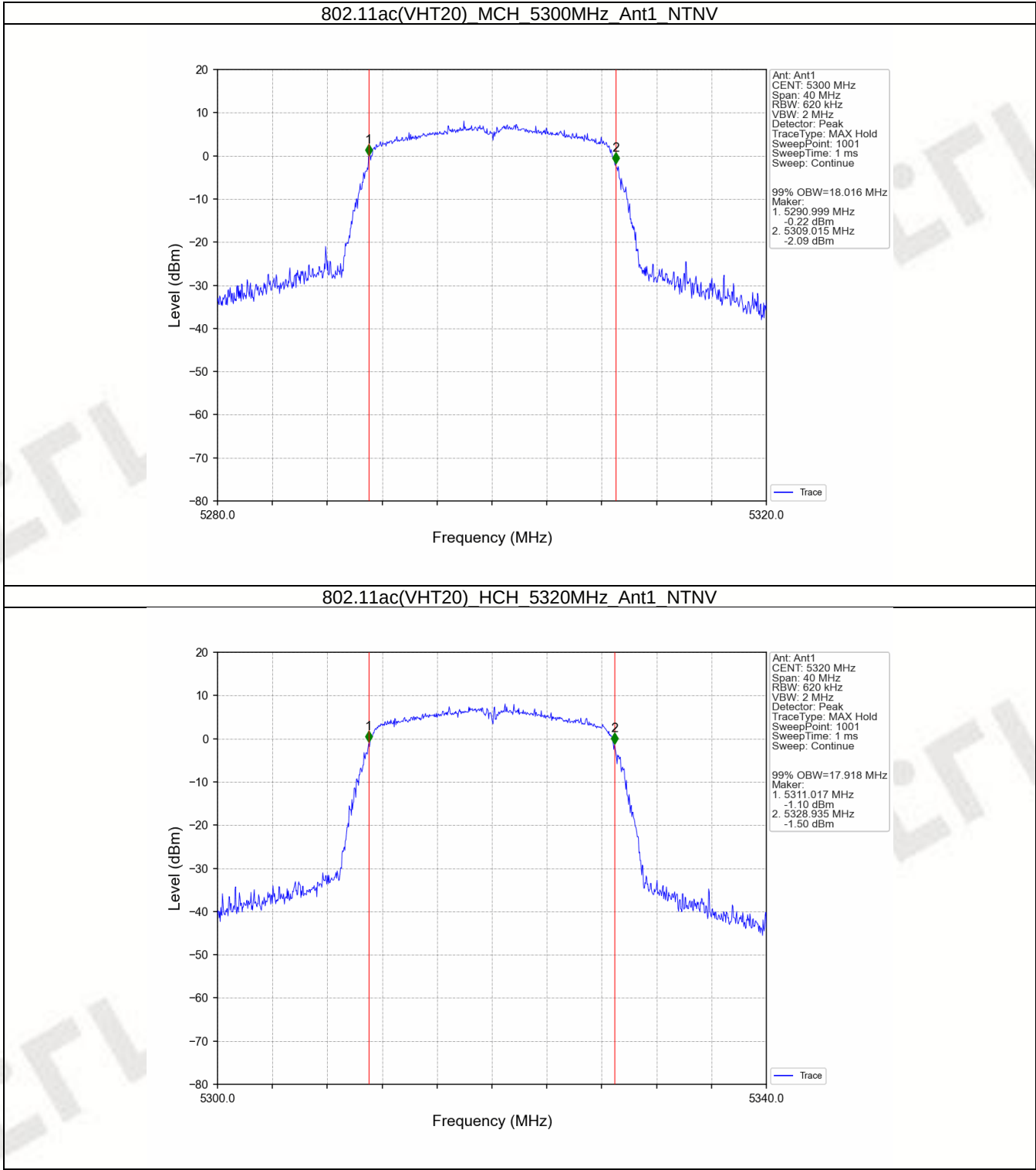
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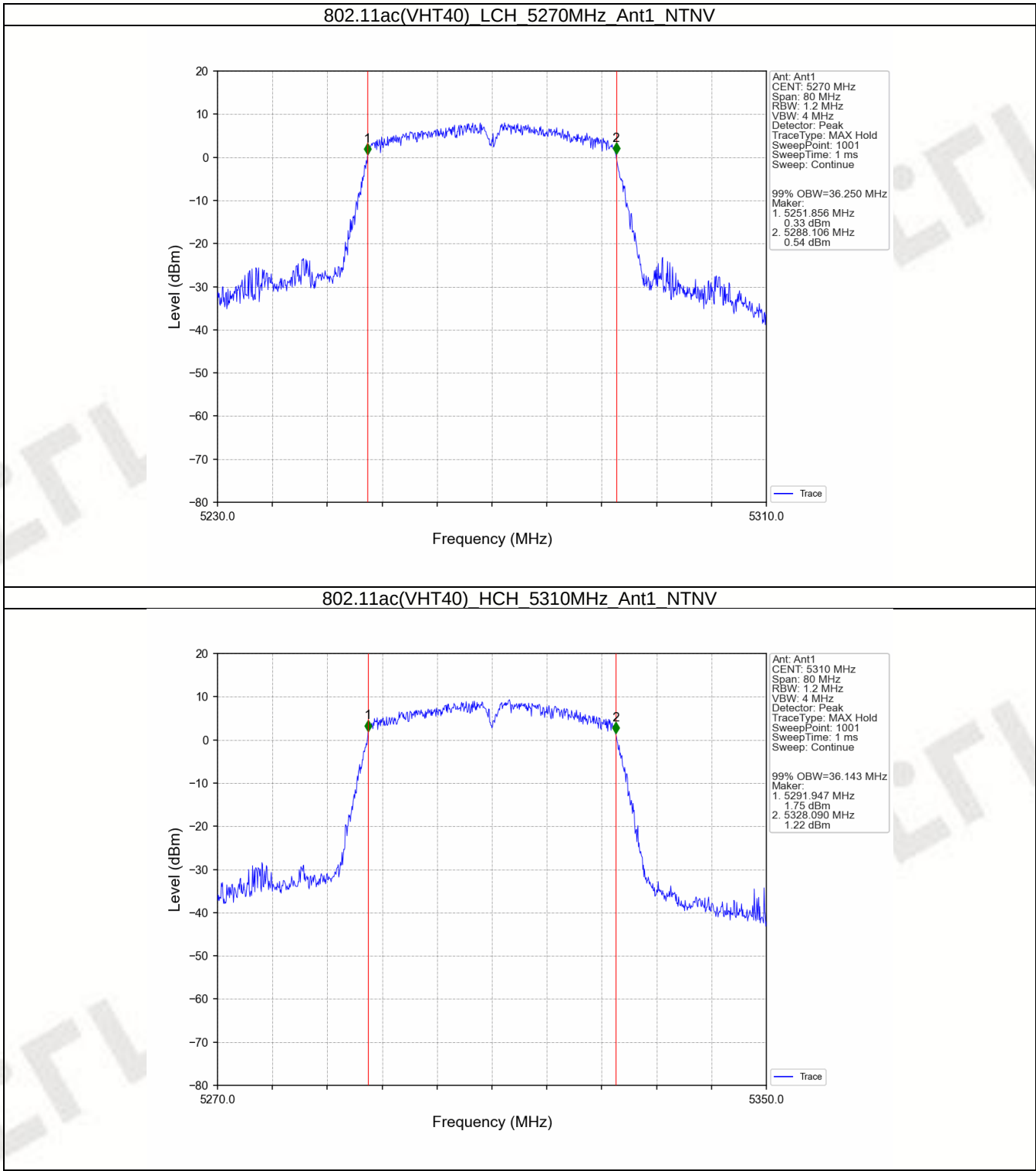
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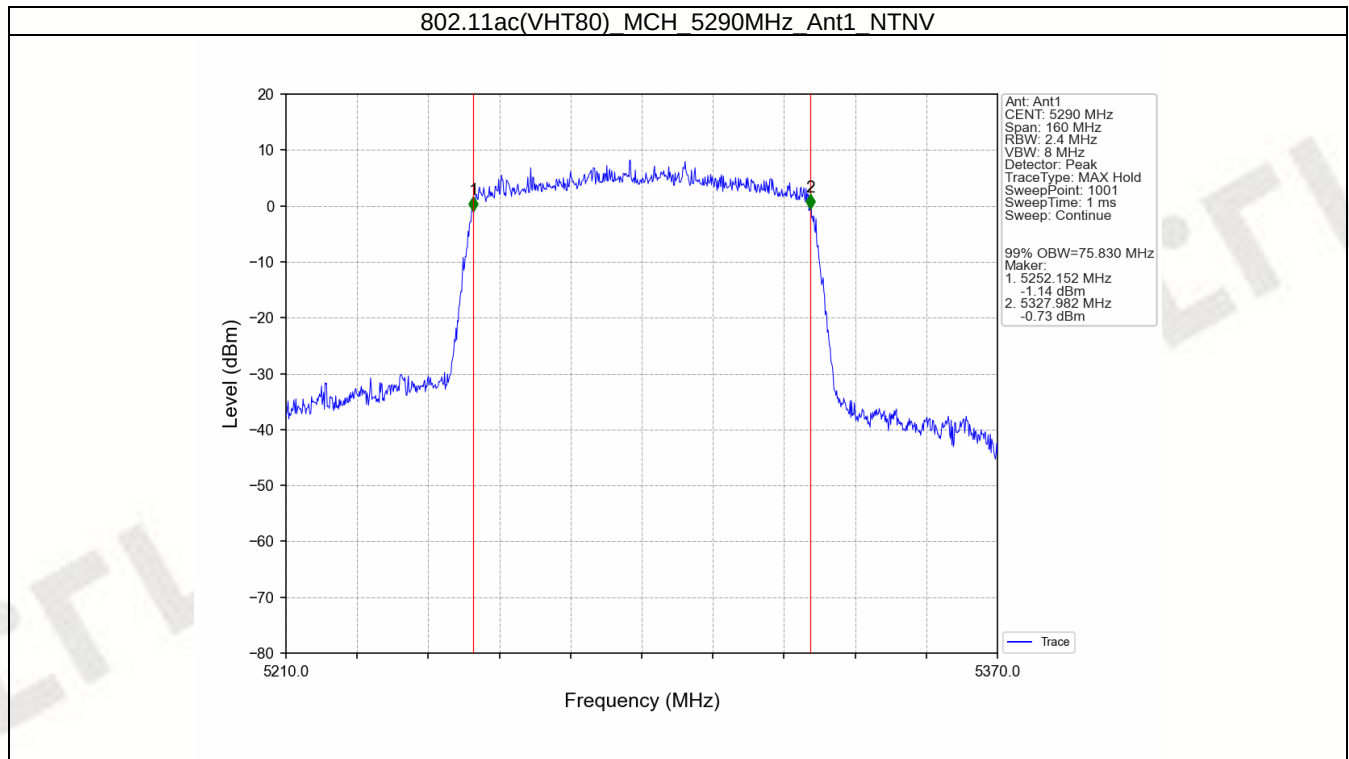
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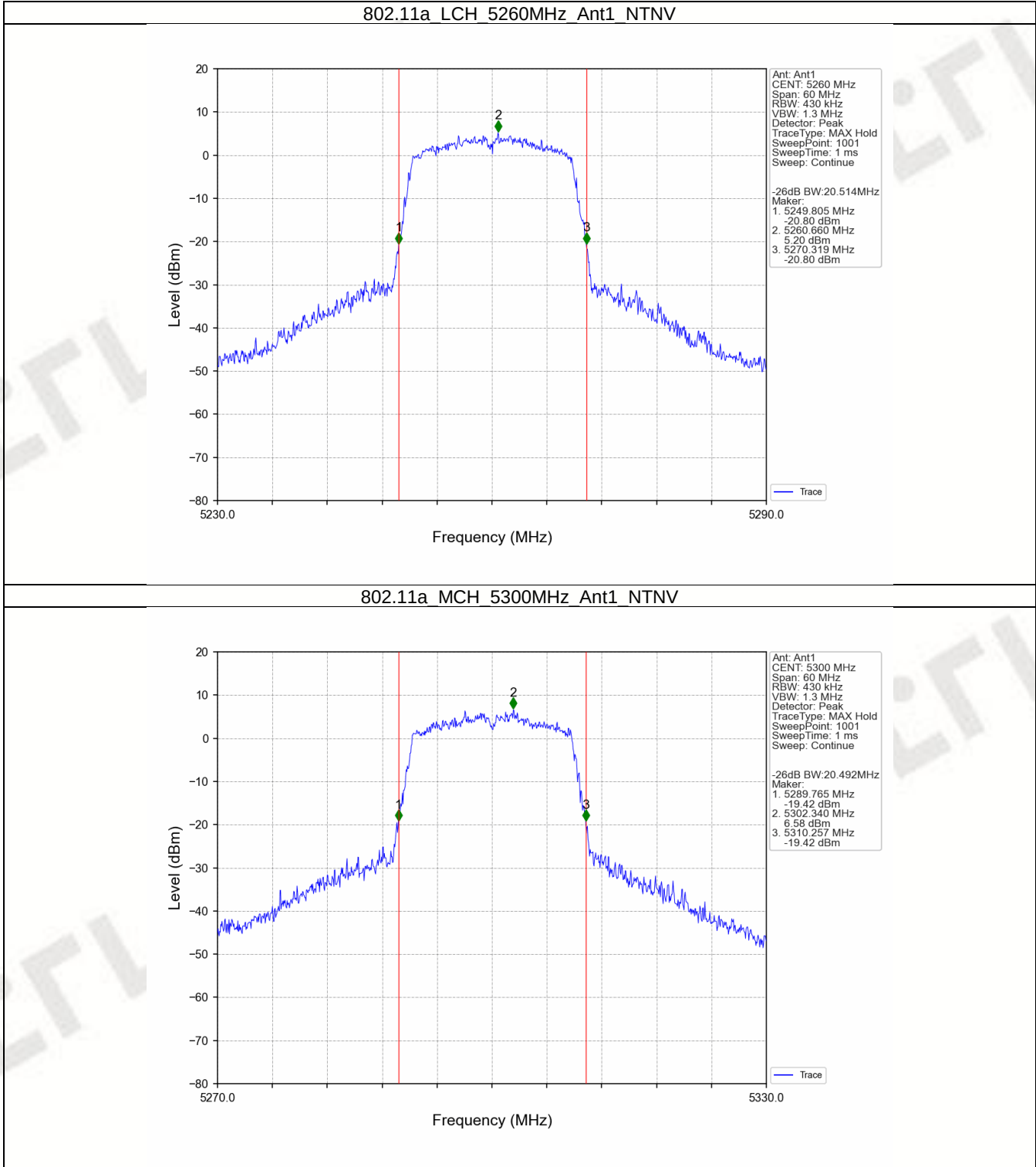


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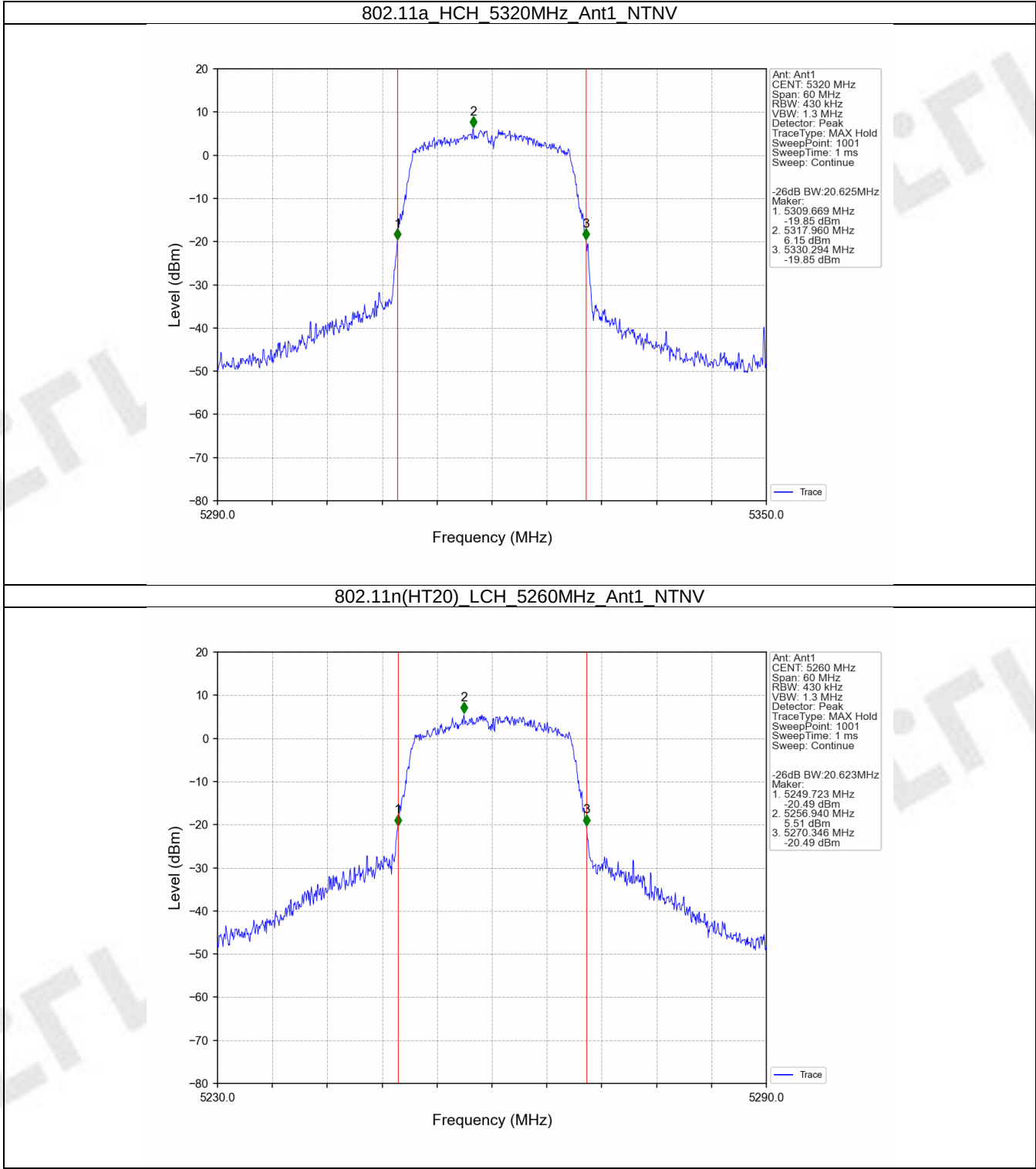


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2.2.2 26dB BW

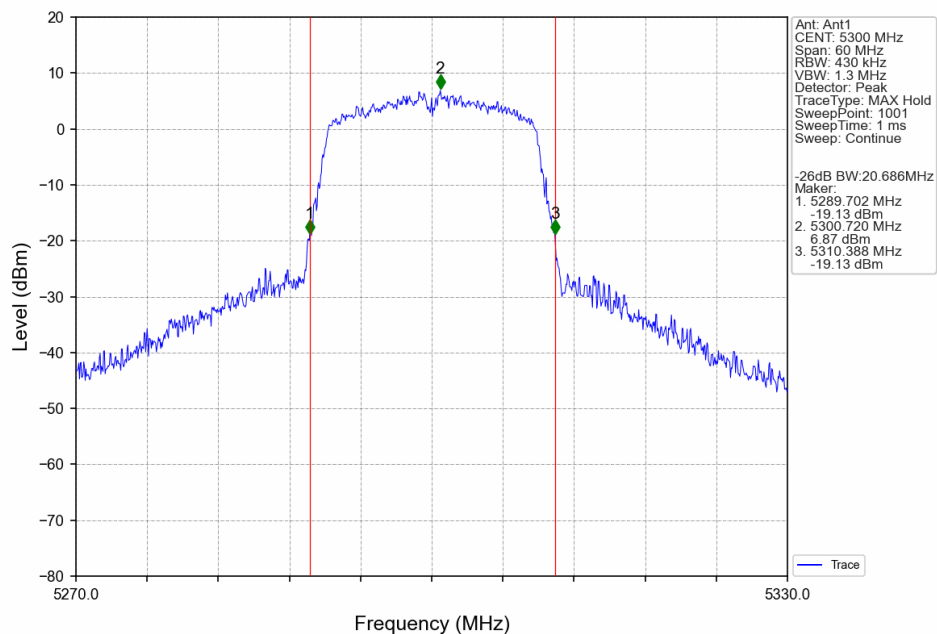


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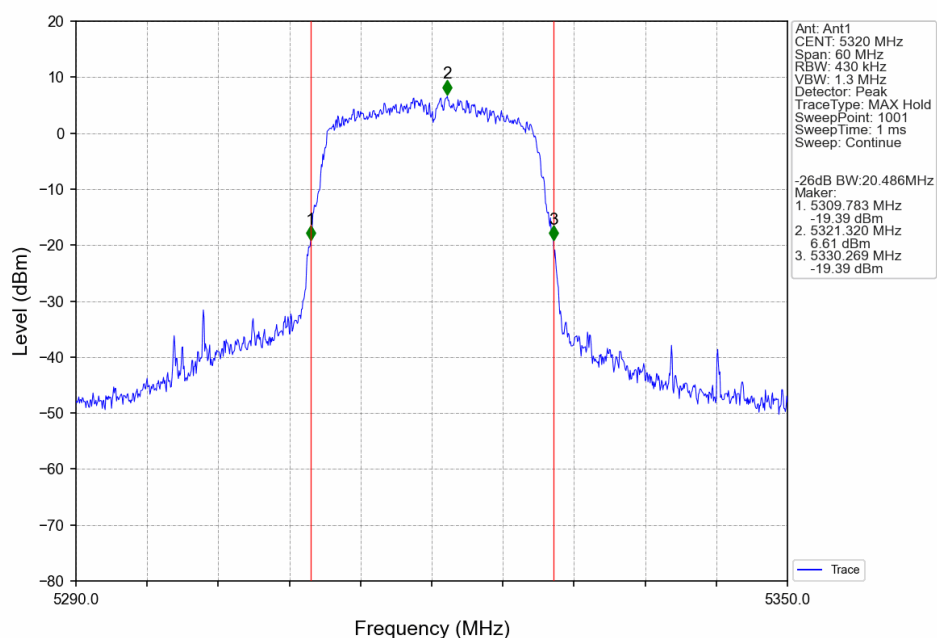


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802.11n(HT20) MCH 5300MHz Ant1 NTN

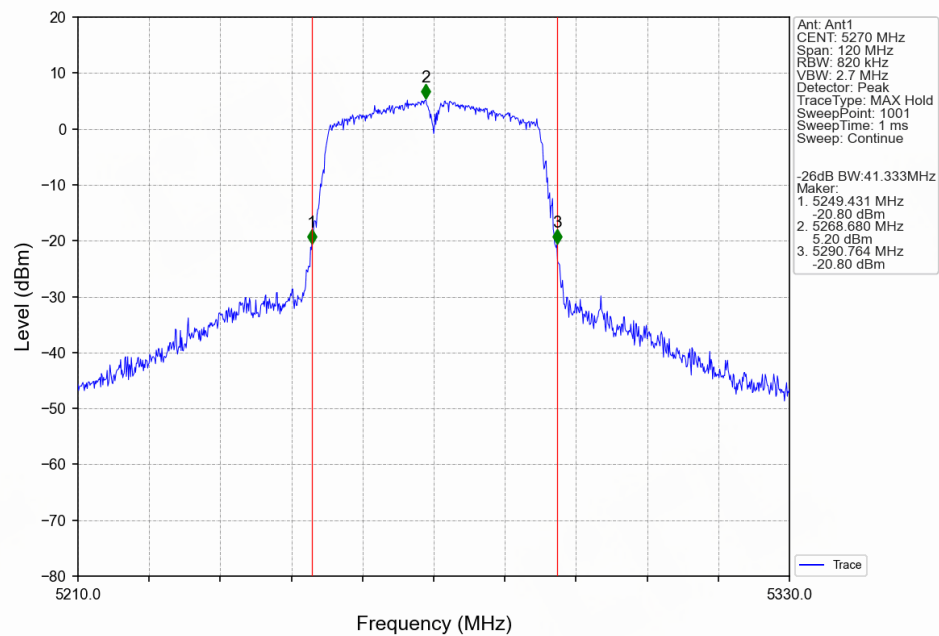


802.11n(HT20) HCH 5320MHz Ant1 NTN

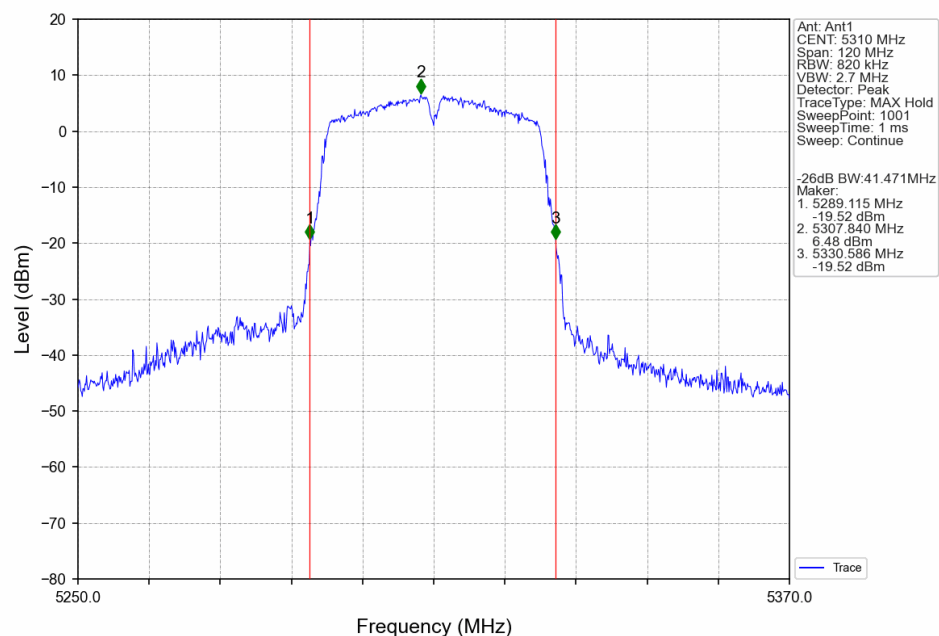


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802.11n(HT40) LCH 5270MHz Ant1 NTN

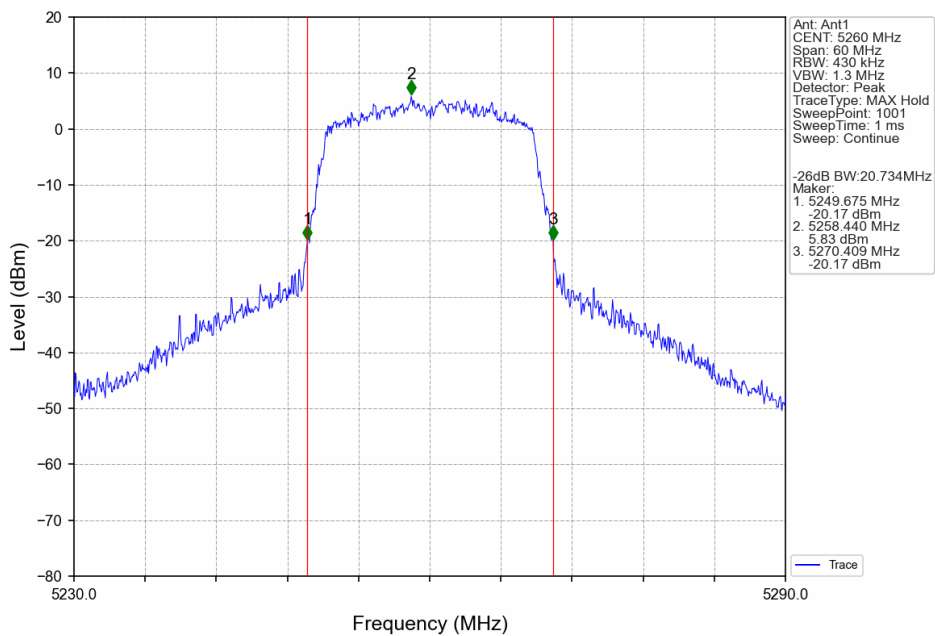


802.11n(HT40) HCH 5310MHz Ant1 NTN

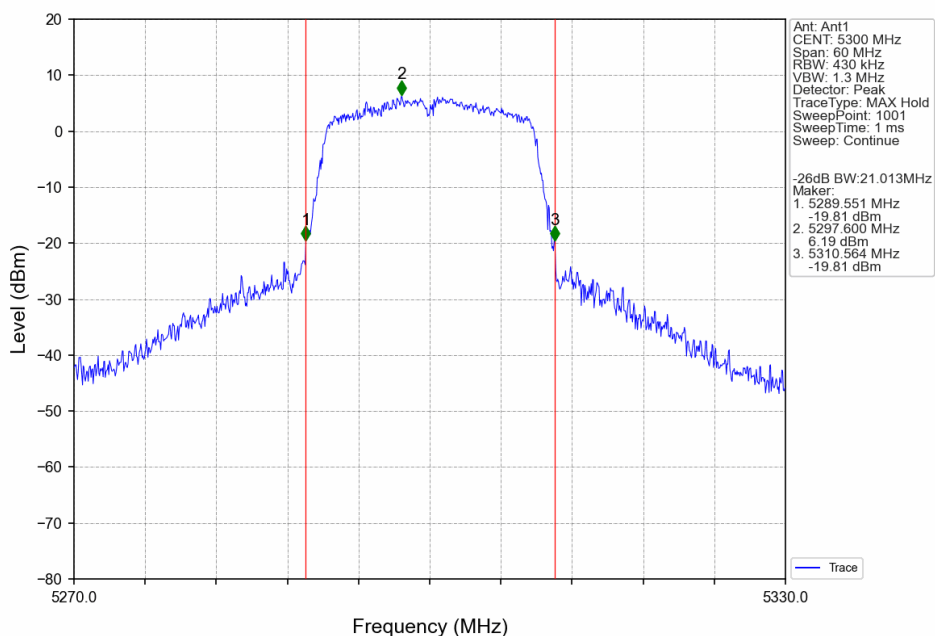


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802.11n(HT20) LCH 5260MHz Ant1 NTN

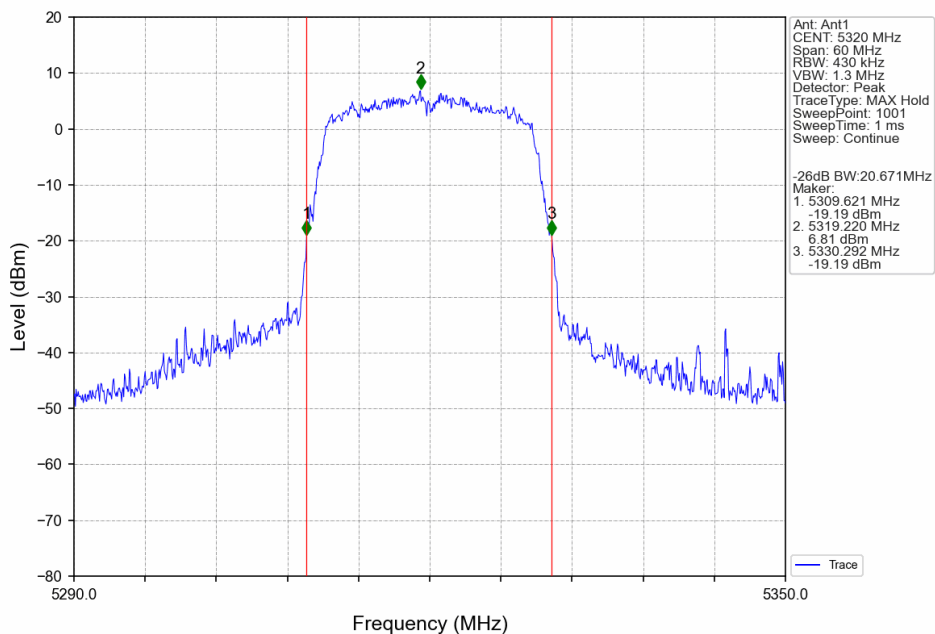


802.11n(HT20) MCH 5300MHz Ant1 NTN

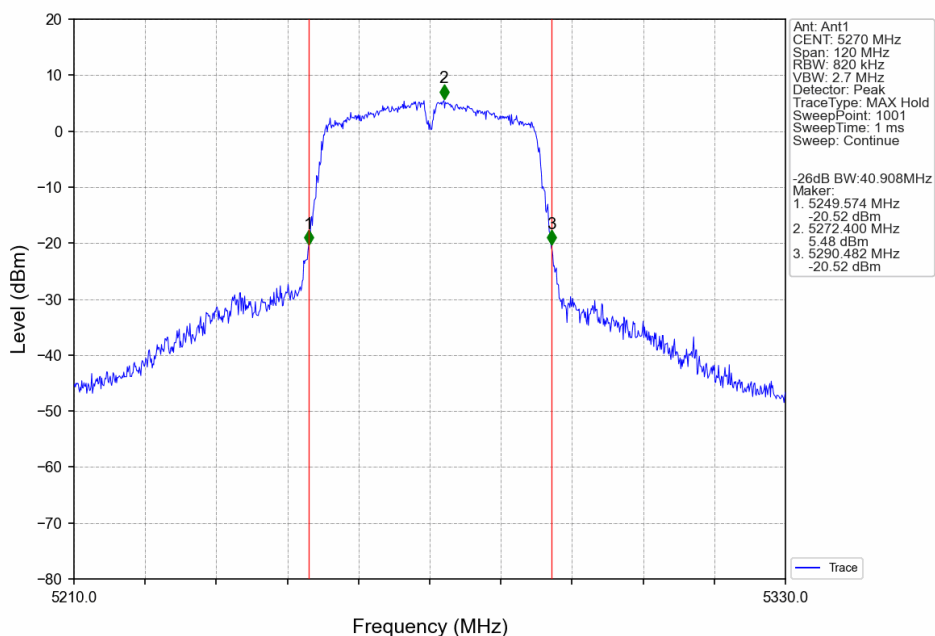


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802.11n(HT20) HCH 5320MHz Ant1 NTN

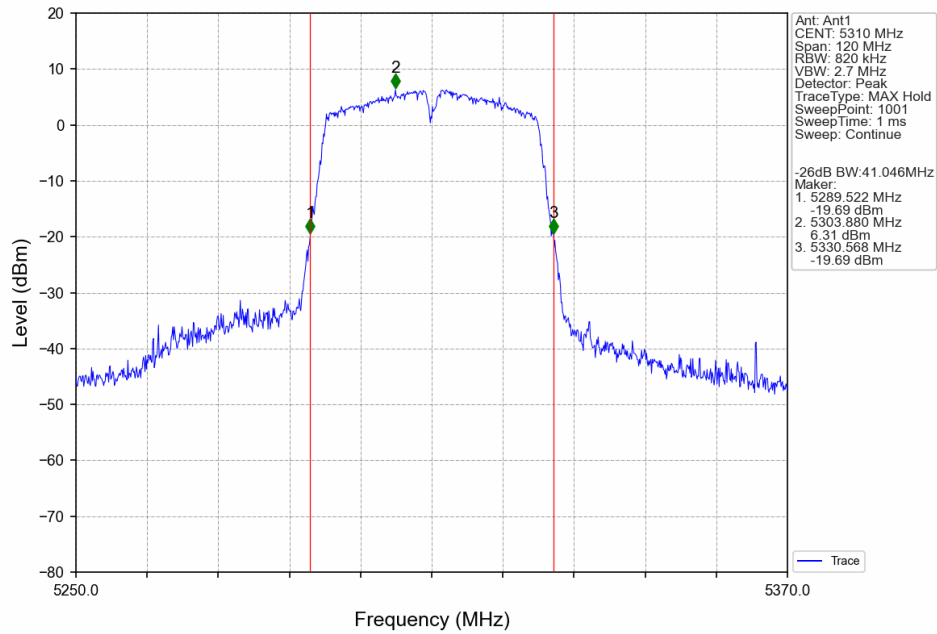


802.11n(HT40) LCH 5270MHz Ant1 NTN

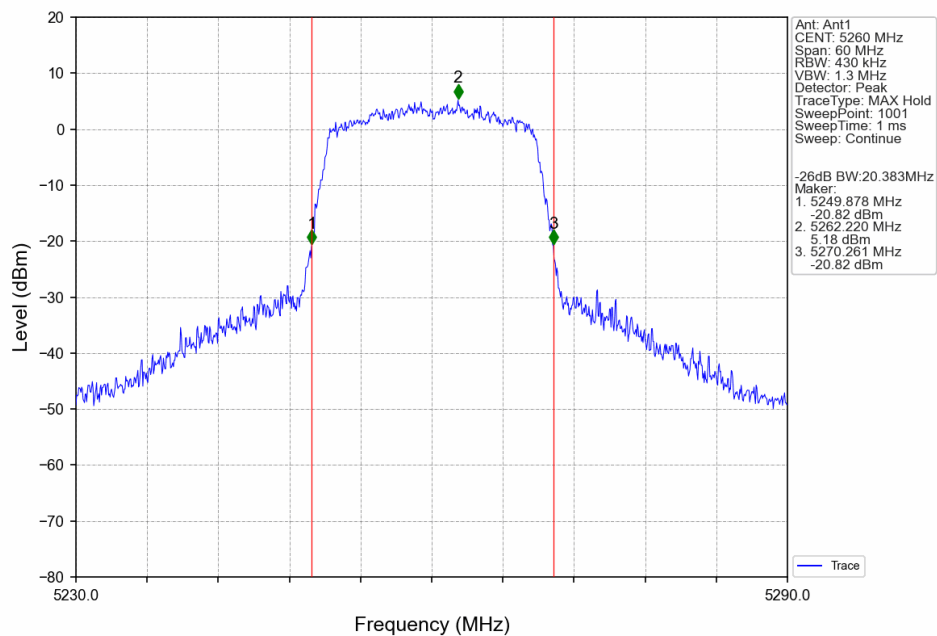


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802.11n(HT40) HCH 5310MHz Ant1 NTN

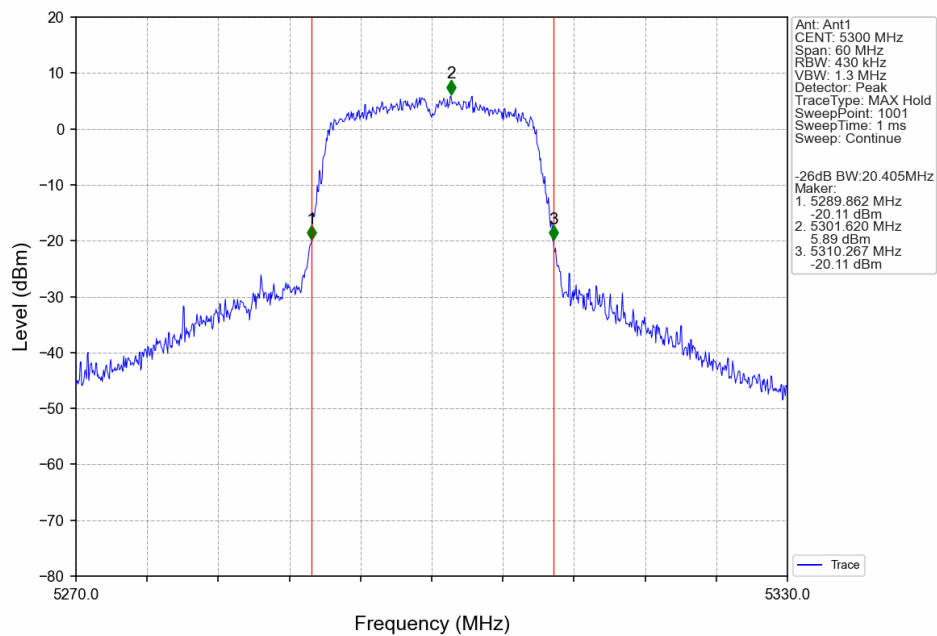


802.11ac(VHT20) LCH 5260MHz Ant1 NTN

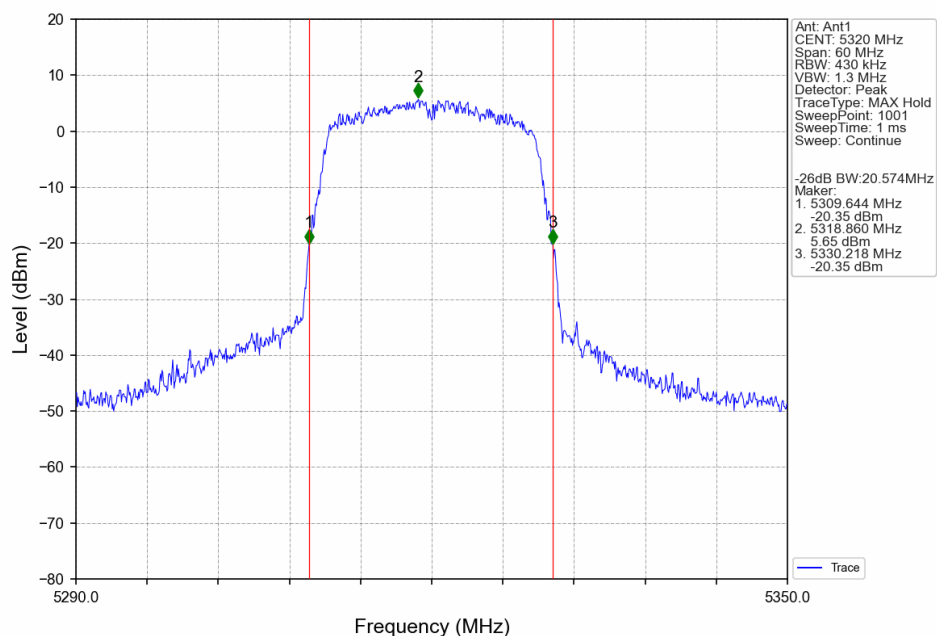


FCCID: 2AYHD-SR01

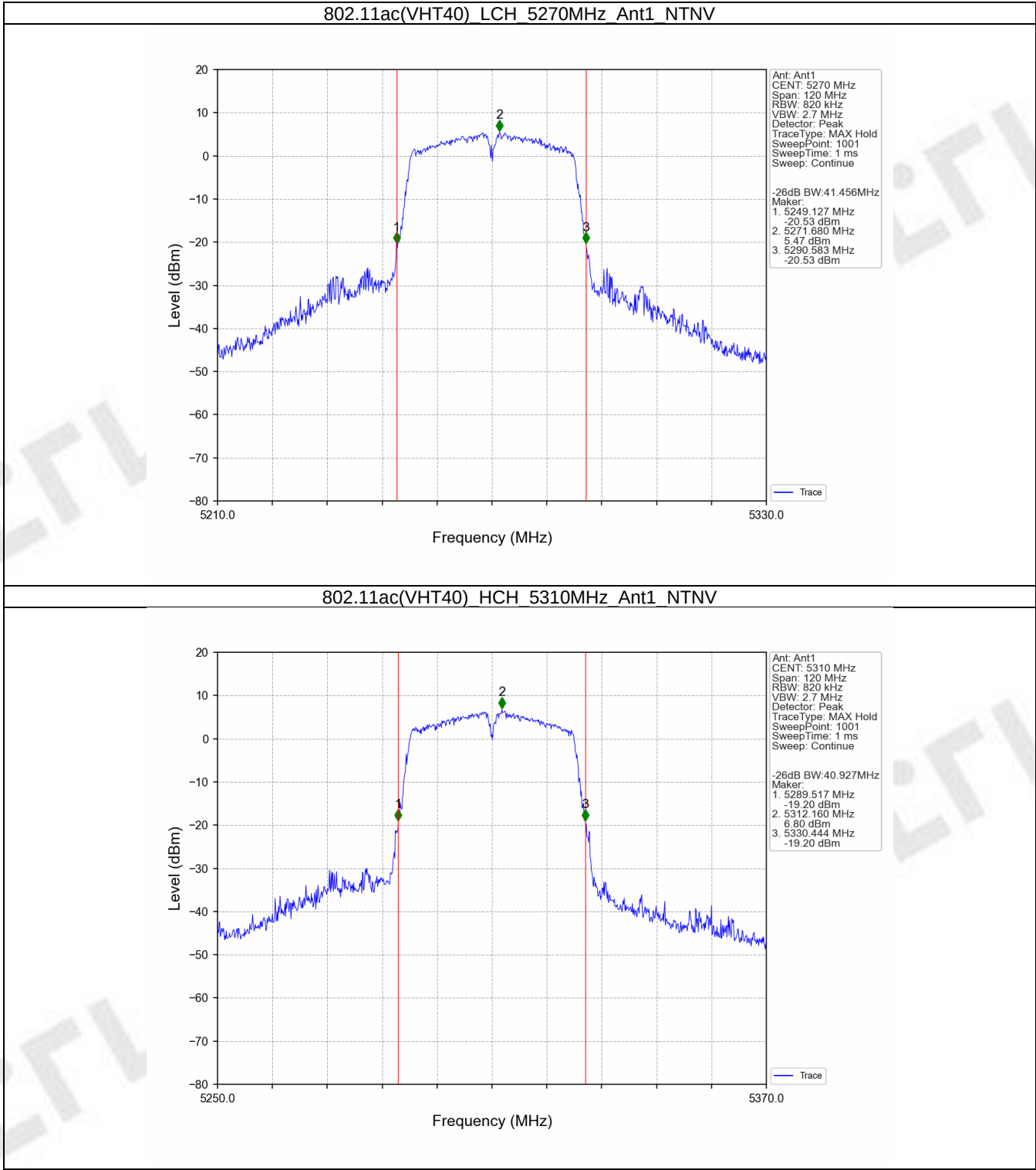
802.11ac(VHT20) MCH 5300MHz Ant1 NTNV



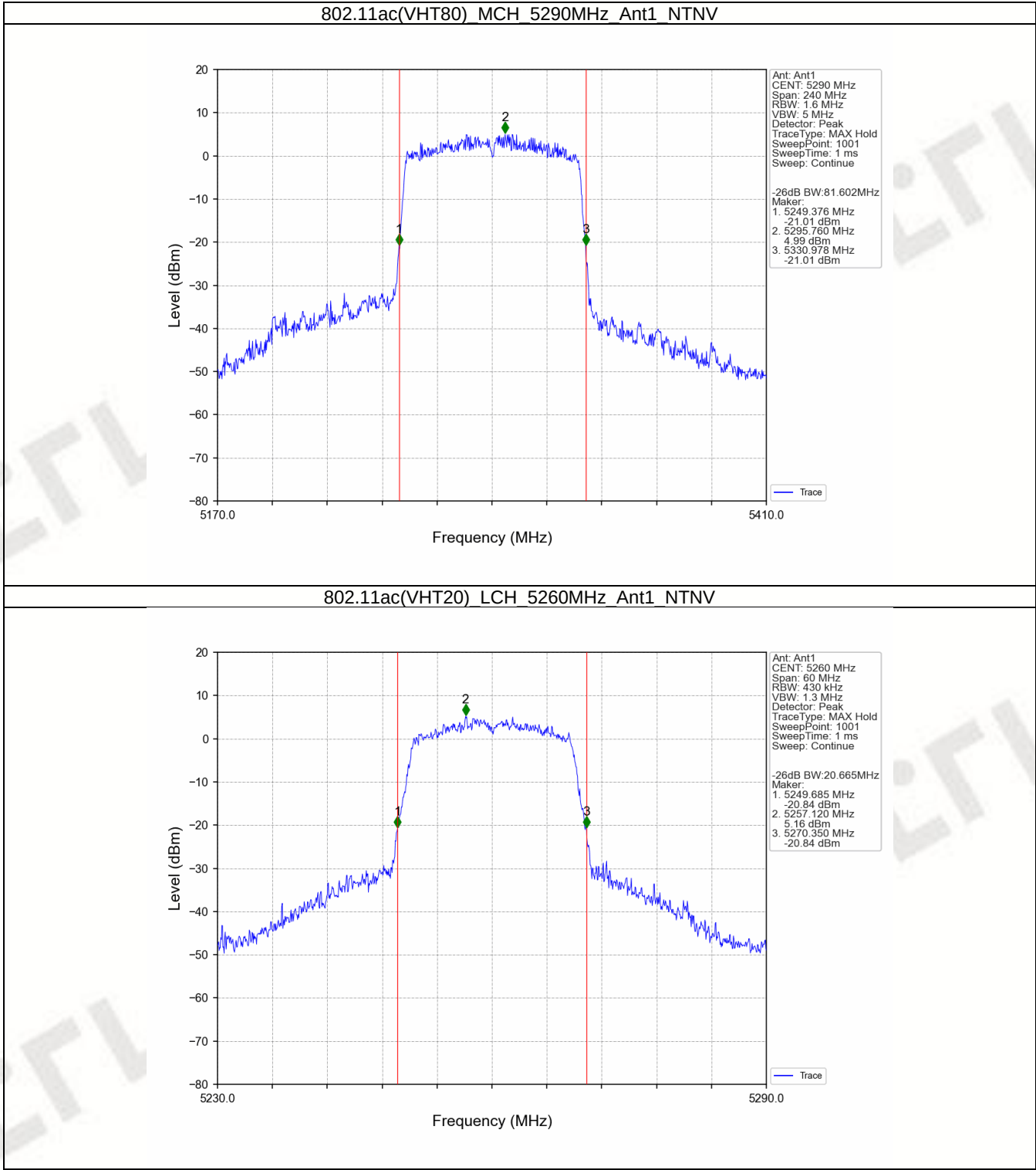
802.11ac(VHT20) HCH 5320MHz Ant1 NTNV



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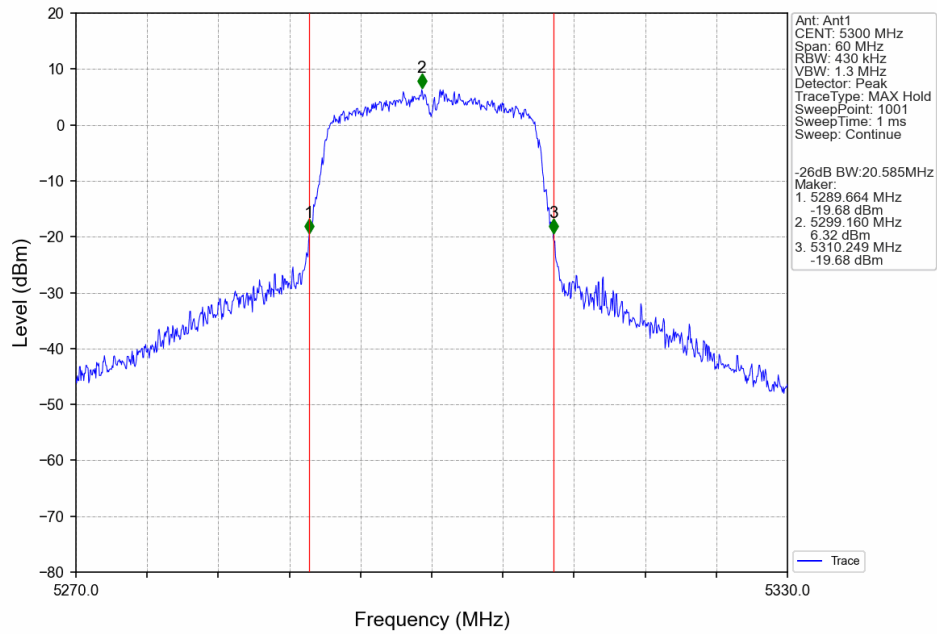


FCCID: 2AYHD-SR01



FCCID: 2AYHD-SR01

802.11ac(VHT20) MCH 5300MHz Ant1 NTV



802.11ac(VHT20) HCH 5320MHz Ant1 NTV

