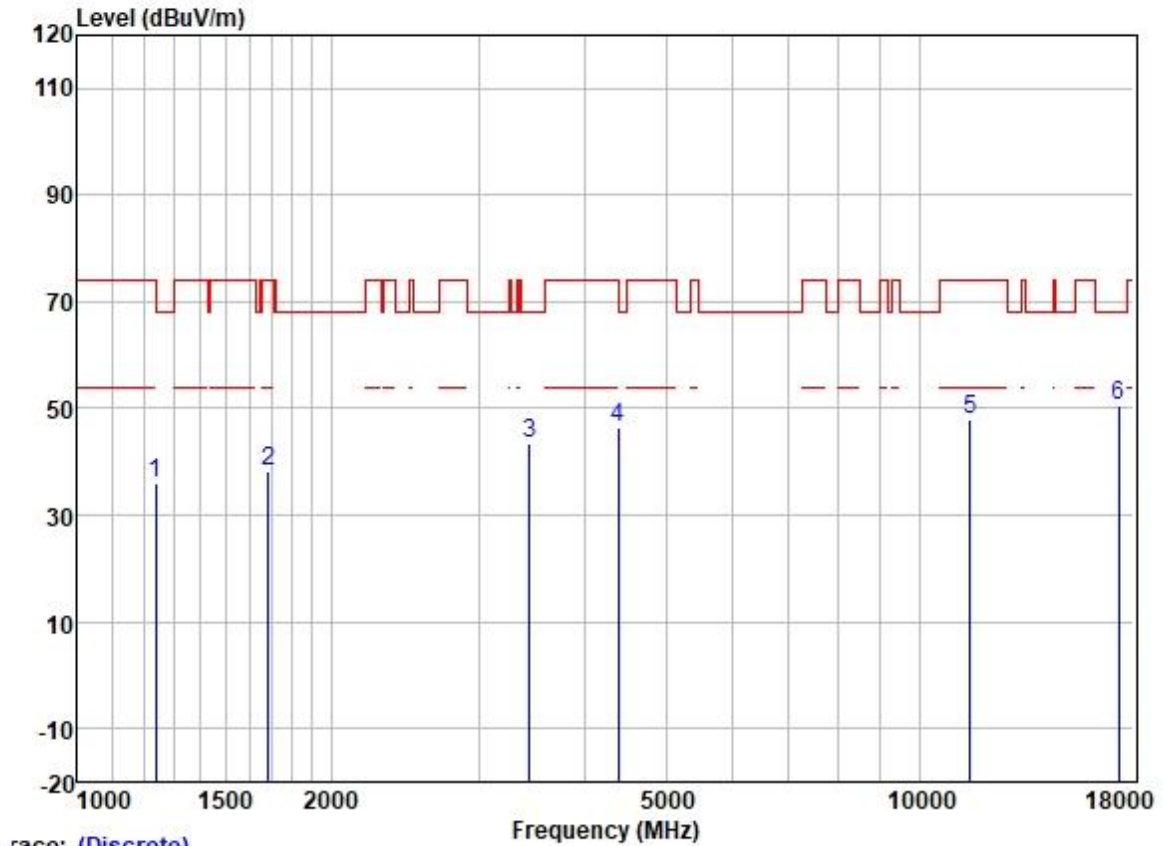


Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



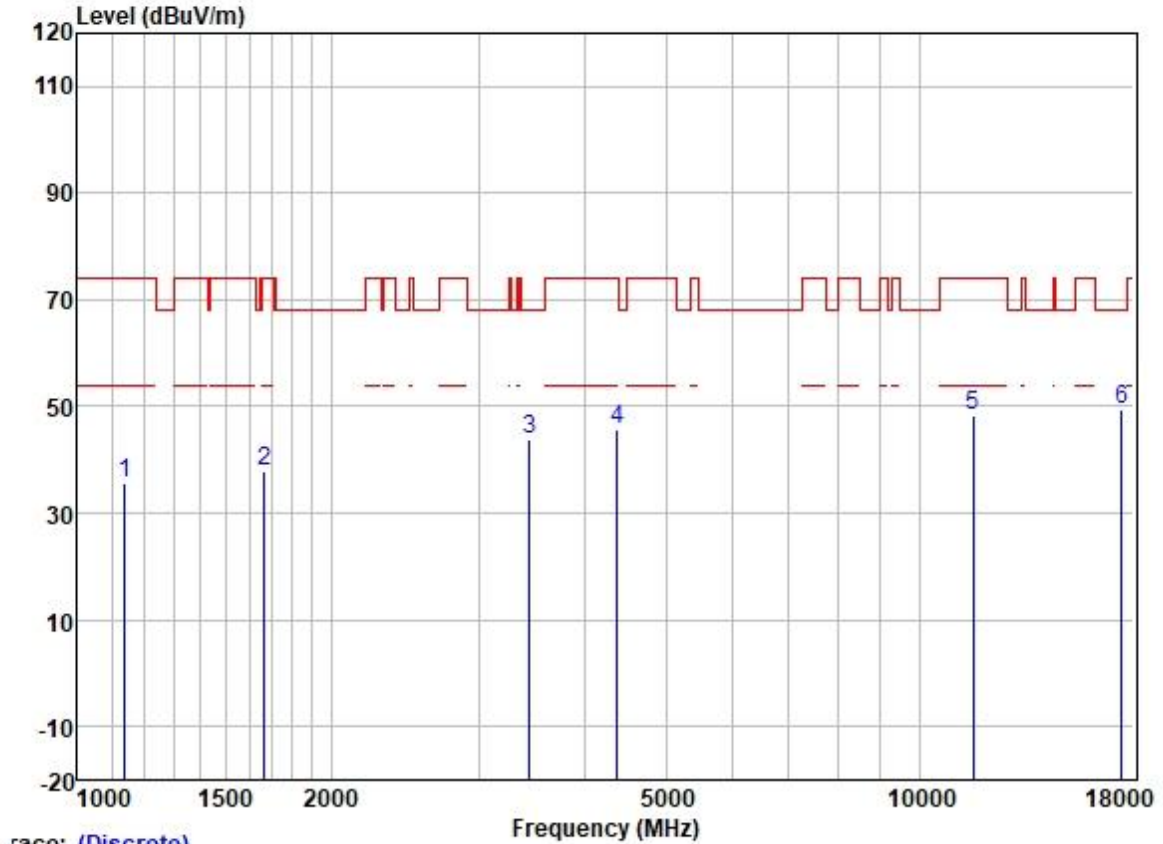
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1238.483	47.06	24.96	2.30	38.35	35.97	74.00	-38.03	VERTICAL	Peak
2	1687.347	47.72	25.69	2.80	37.91	38.30	74.00	-35.70	VERTICAL	Peak
3	3445.535	47.26	28.87	4.18	36.96	43.35	68.20	-24.85	VERTICAL	Peak
4	4392.376	47.96	30.66	4.70	36.81	46.51	74.00	-27.49	VERTICAL	Peak
5	11510.000	36.73	39.90	8.41	37.15	47.89	74.00	-26.11	VERTICAL	Peak
6	17265.000	32.54	43.21	10.24	35.33	50.66	68.20	-17.54	VERTICAL	Peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



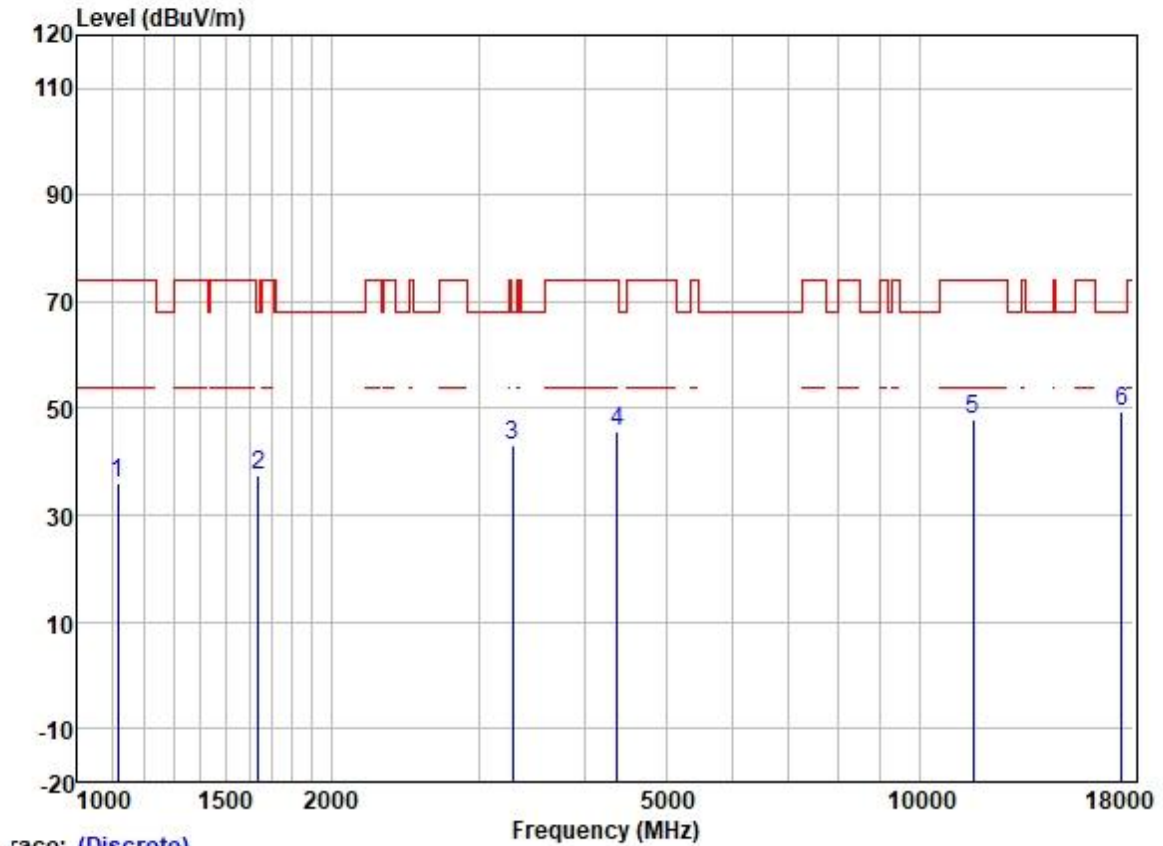
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1138.904	47.30	24.46	2.27	38.42	35.61	74.00	-38.39	HORIZONTAL Peak
2	1667.951	47.14	25.66	2.80	37.91	37.69	74.00	-36.31	HORIZONTAL Peak
3	3445.535	47.63	28.87	4.18	36.96	43.72	68.20	-24.48	HORIZONTAL Peak
4	4379.699	47.26	30.64	4.69	36.81	45.78	74.00	-28.22	HORIZONTAL Peak
5	11590.000	37.21	39.72	8.37	37.14	48.16	74.00	-25.84	HORIZONTAL Peak
6	17385.000	30.59	43.57	10.53	35.32	49.37	68.20	-18.83	HORIZONTAL Peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1116.093	47.72	24.40	2.25	38.43	35.94	74.00	-38.06	VERTICAL	Peak
2	1639.274	47.13	25.62	2.80	37.93	37.62	68.20	-30.58	VERTICAL	Peak
3	3289.821	47.31	28.74	4.05	37.03	43.07	68.20	-25.13	VERTICAL	Peak
4	4379.699	47.09	30.64	4.69	36.81	45.61	74.00	-28.39	VERTICAL	Peak
5	11590.000	36.87	39.72	8.37	37.14	47.82	74.00	-26.18	VERTICAL	Peak
6	17385.000	30.51	43.57	10.53	35.32	49.29	68.20	-18.91	VERTICAL	Peak

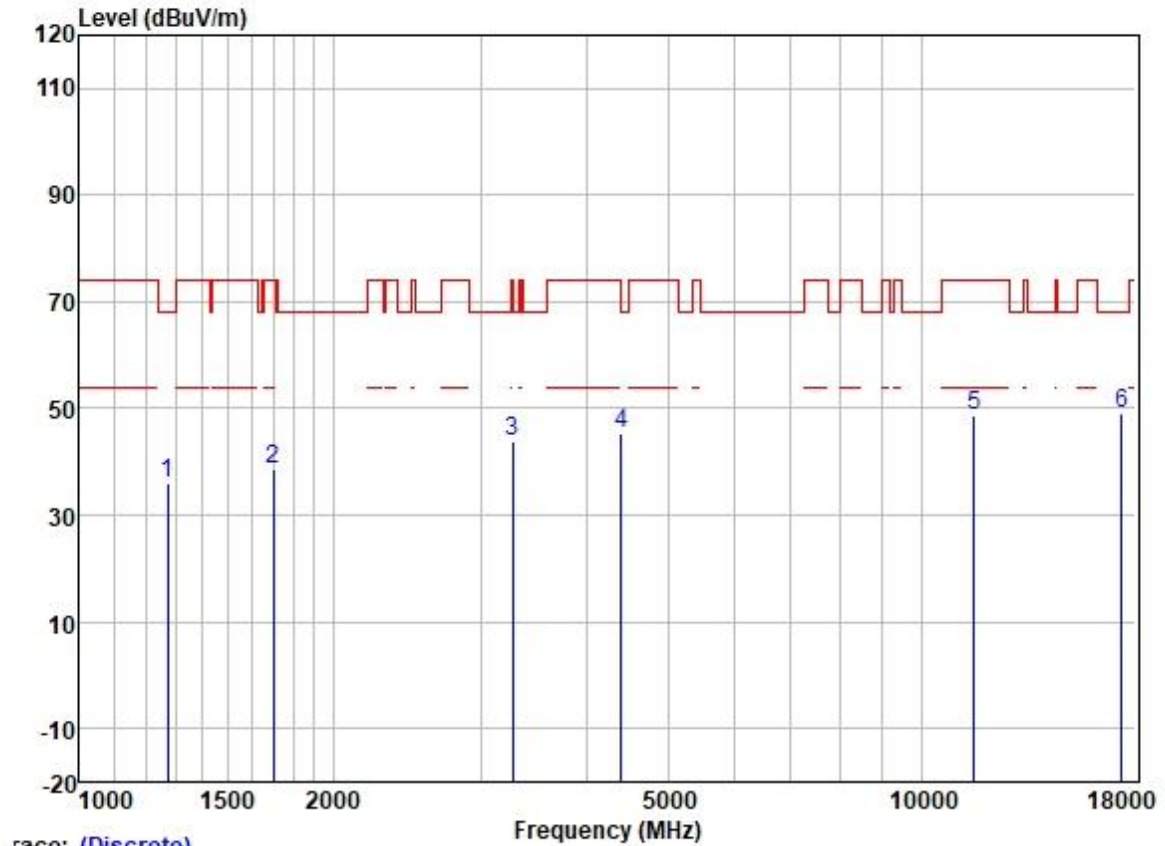


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Guangzhou Branch EMC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



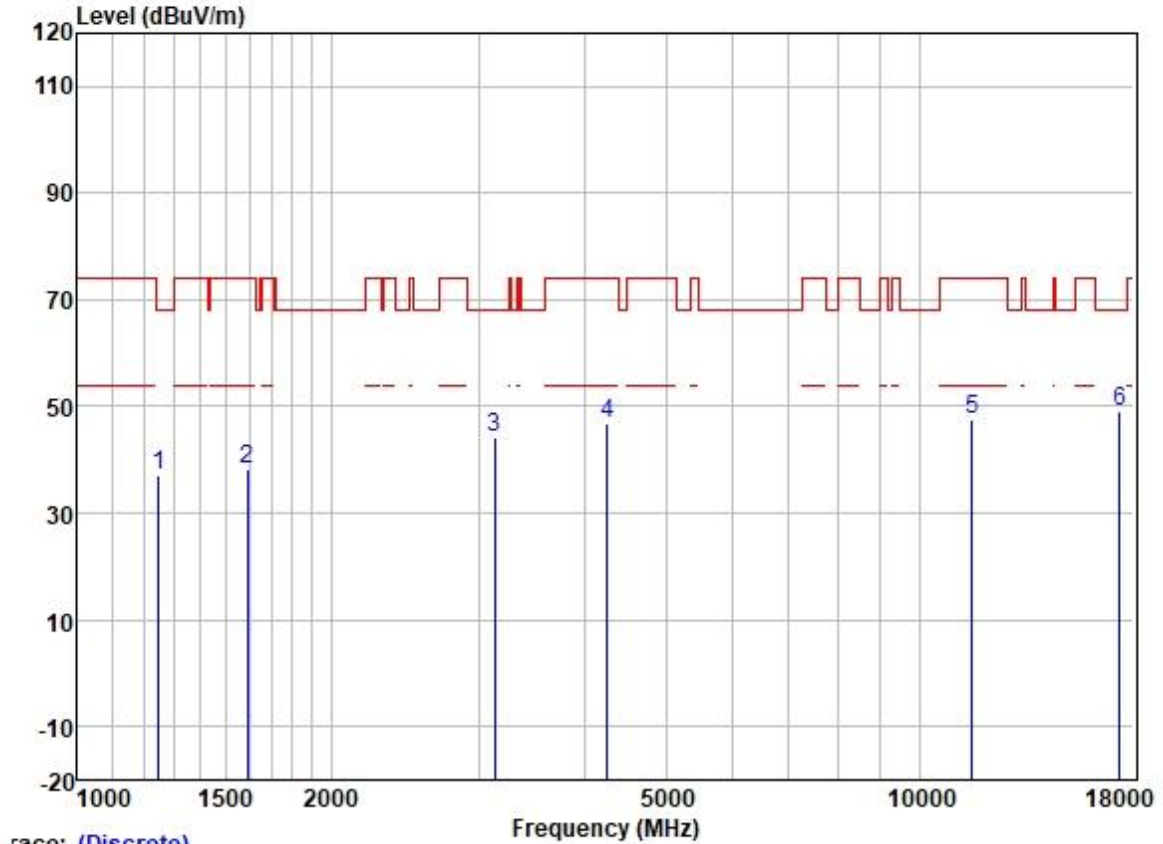
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1271.123	46.89	25.11	2.46	38.33	36.13	68.20	-32.07	HORIZONTAL	Peak
2	1697.129	47.96	25.71	2.80	37.89	38.58	74.00	-35.42	HORIZONTAL	Peak
3	3270.858	48.22	28.71	4.04	37.04	43.93	68.20	-24.27	HORIZONTAL	Peak
4	4405.090	46.75	30.68	4.70	36.81	45.32	68.20	-22.88	HORIZONTAL	Peak
5	11550.000	37.49	39.84	8.40	37.14	48.59	74.00	-25.41	HORIZONTAL	Peak
6	17325.000	30.67	43.40	10.39	35.32	49.14	68.20	-19.06	HORIZONTAL	Peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1249.269	47.97	25.02	2.34	38.35	36.98	68.20	-31.22	VERTICAL Peak
2	1592.571	47.87	25.57	2.80	37.98	38.26	74.00	-35.74	VERTICAL Peak
3	3132.079	48.92	28.51	3.95	37.14	44.24	68.20	-23.96	VERTICAL Peak
4	4254.921	48.54	30.34	4.62	36.81	46.69	74.00	-27.31	VERTICAL Peak
5	11550.000	36.58	39.84	8.40	37.14	47.68	74.00	-26.32	VERTICAL Peak
6	17325.000	30.52	43.40	10.39	35.32	48.99	68.20	-19.21	VERTICAL Peak



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## 8 Test Setup Photo

Refer to Appendix - Setup Photos-BTWIFI for GZCR2112021460AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for GZCR2112021460AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.063	2.095	98.47	0.07	0.00
		5200	2.064	2.096	98.47	0.07	0.03
		5240	2.063	2.096	98.43	0.07	0.03
		5260	2.064	2.096	98.47	0.07	0.03
		5300	2.064	2.096	98.47	0.07	0.03
		5320	2.063	2.096	98.43	0.07	0.03
		5500	2.064	2.096	98.47	0.07	0.03
		5580	2.064	2.096	98.47	0.07	0.03
		5700	2.064	2.096	98.47	0.07	0.03
		5745	2.063	2.096	98.43	0.07	0.03
		5785	2.064	2.096	98.47	0.07	0.03
5825	2.064	2.096	98.47	0.07	0.03		
802.11n (HT20)	SISO	5180	1.920	1.952	98.36	0.07	0.00
		5200	1.919	1.951	98.36	0.07	0.03
		5240	1.920	1.952	98.36	0.07	0.03
		5260	1.920	1.952	98.36	0.07	0.03
		5300	1.920	1.952	98.36	0.07	0.03
		5320	1.920	1.952	98.36	0.07	0.03
		5500	1.920	1.952	98.36	0.07	0.03
		5580	1.919	1.951	98.36	0.07	0.03
		5700	1.919	1.951	98.36	0.07	0.03
		5745	1.919	1.951	98.36	0.07	0.03
		5785	1.920	1.952	98.36	0.07	0.03
5825	1.919	1.951	98.36	0.07	0.03		
802.11n (HT40)	SISO	5190	0.646	0.690	93.62	0.29	0.00
		5230	0.647	0.690	93.77	0.28	0.03
		5270	0.646	0.689	93.76	0.28	0.03
		5310	0.646	0.689	93.76	0.28	0.07
		5510	0.646	0.690	93.62	0.29	0.03
5550	0.646	0.690	93.62	0.29	0.03		



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		5670	0.646	0.690	93.62	0.29	0.03		
		5755	0.646	0.689	93.76	0.28	0.03		
		5795	0.647	0.690	93.77	0.28	0.00		
802.11ac (VHT20)	SISO	5180	1.316	1.358	96.91	0.14	0.03		
		5200	1.315	1.357	96.90	0.14	0.03		
		5240	1.316	1.357	96.98	0.13	0.03		
		5260	1.315	1.357	96.90	0.14	0.00		
		5300	1.316	1.357	96.98	0.13	0.03		
		5320	1.315	1.357	96.90	0.14	0.00		
		5500	1.316	1.358	96.91	0.14	0.00		
		5580	1.316	1.357	96.98	0.13	0.03		
		5700	1.316	1.358	96.91	0.14	0.03		
		5745	1.316	1.357	96.98	0.13	0.00		
		5785	1.316	1.357	96.98	0.13	0.00		
		5825	1.315	1.357	96.90	0.14	0.07		
		802.11ac (VHT40)	SISO	5190	0.952	0.984	96.75	0.14	0.03
				5230	0.952	0.984	96.75	0.14	0.03
5270	0.952			0.983	96.85	0.14	0.03		
5310	0.950			0.984	96.54	0.15	0.03		
5510	0.950			0.983	96.64	0.15	0.04		
5550	0.950			0.983	96.64	0.15	0.03		
5670	0.950			0.984	96.54	0.15	0.03		
5755	0.952			0.984	96.75	0.14	0.03		
5795	0.952	0.983	96.85	0.14	0.03				
802.11ac (VHT80)	SISO	5210	0.460	0.492	93.50	0.29	0.07		
		5290	0.460	0.492	93.50	0.29	0.04		
		5530	0.459	0.492	93.29	0.30	0.07		
		5610	0.460	0.491	93.69	0.28	0.03		
		5775	0.459	0.491	93.48	0.29	0.03		

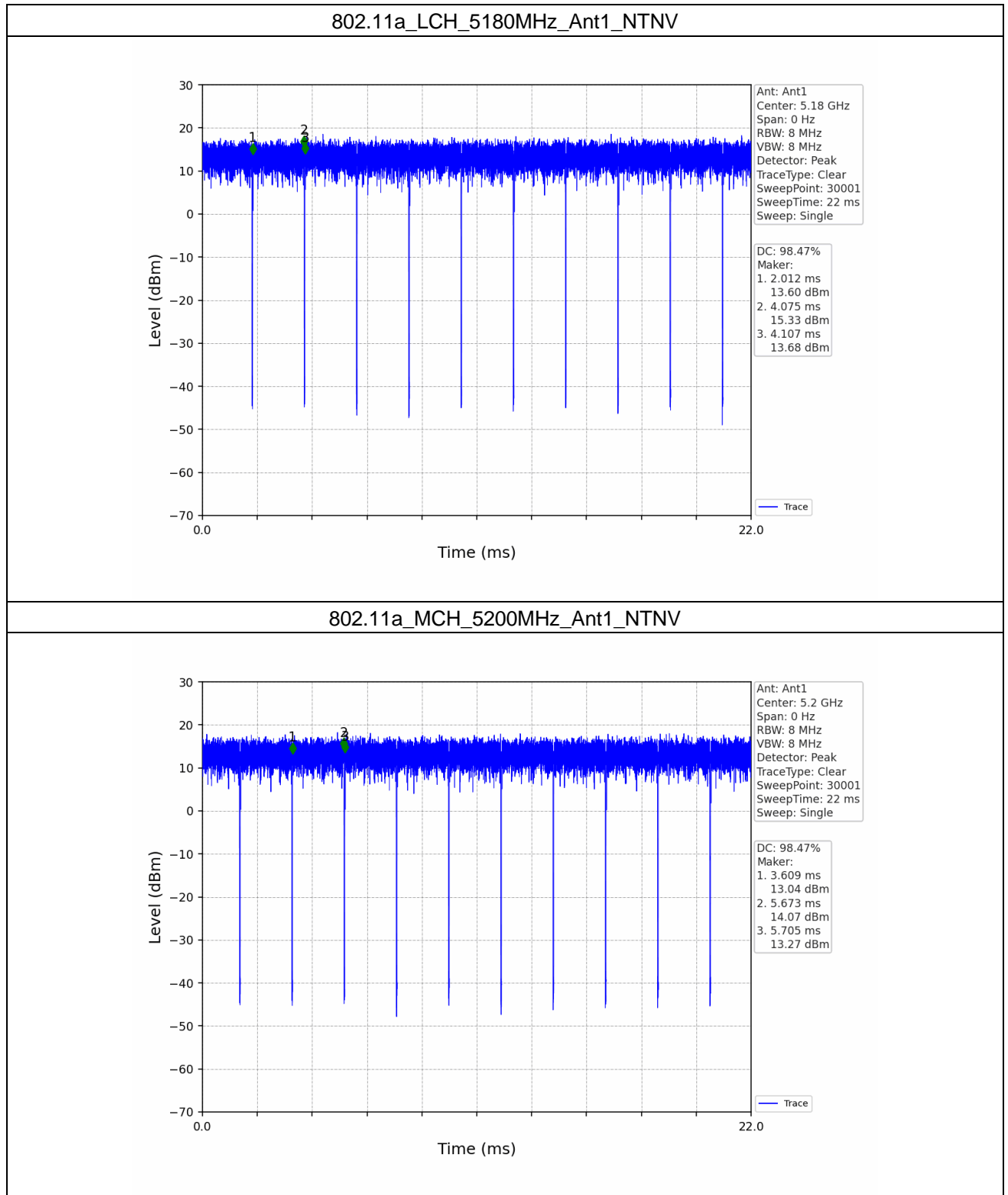


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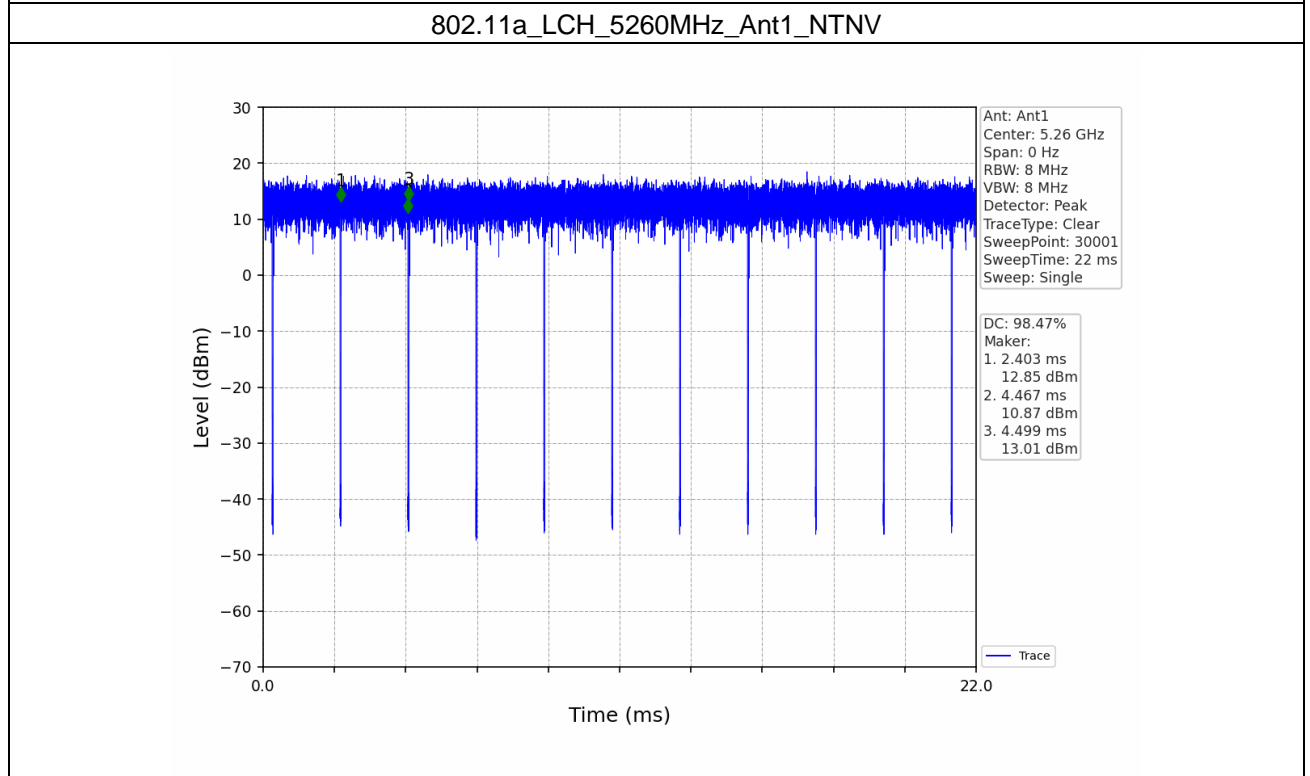
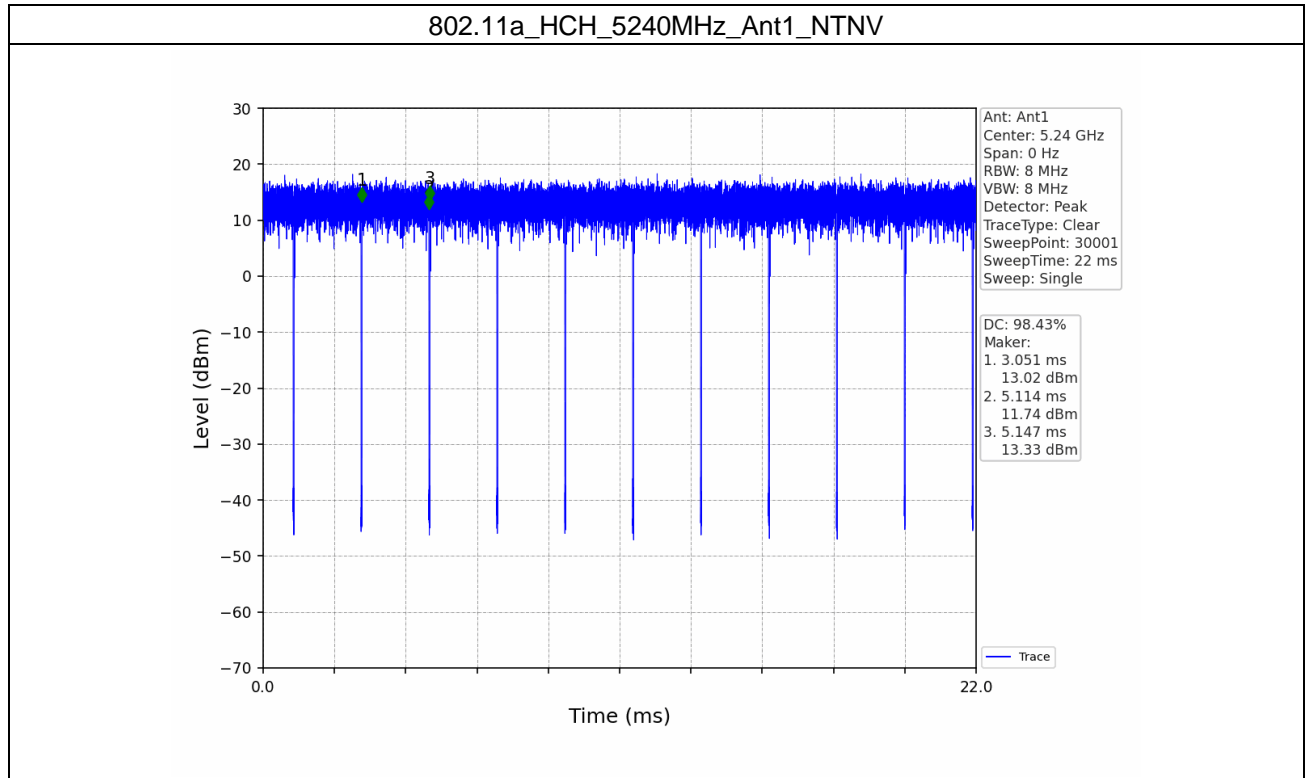
### 1.1.2 Test Graph



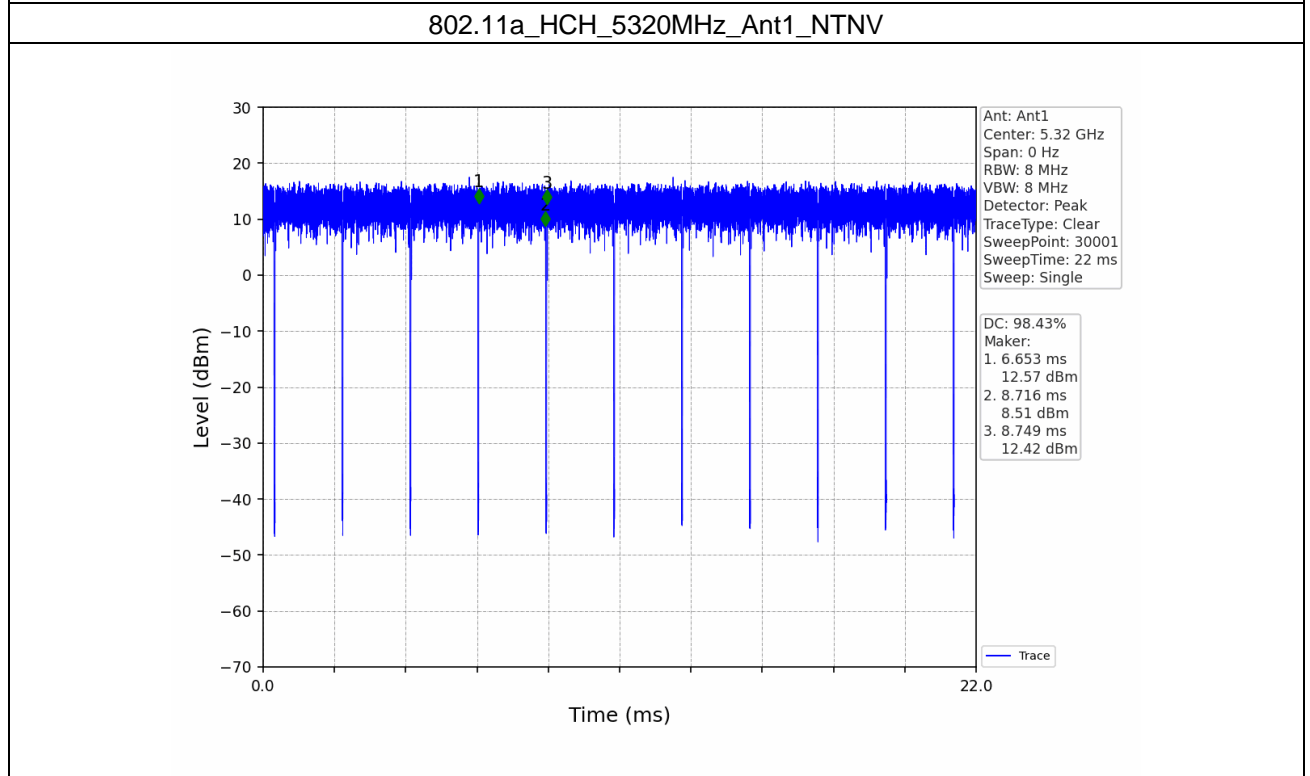
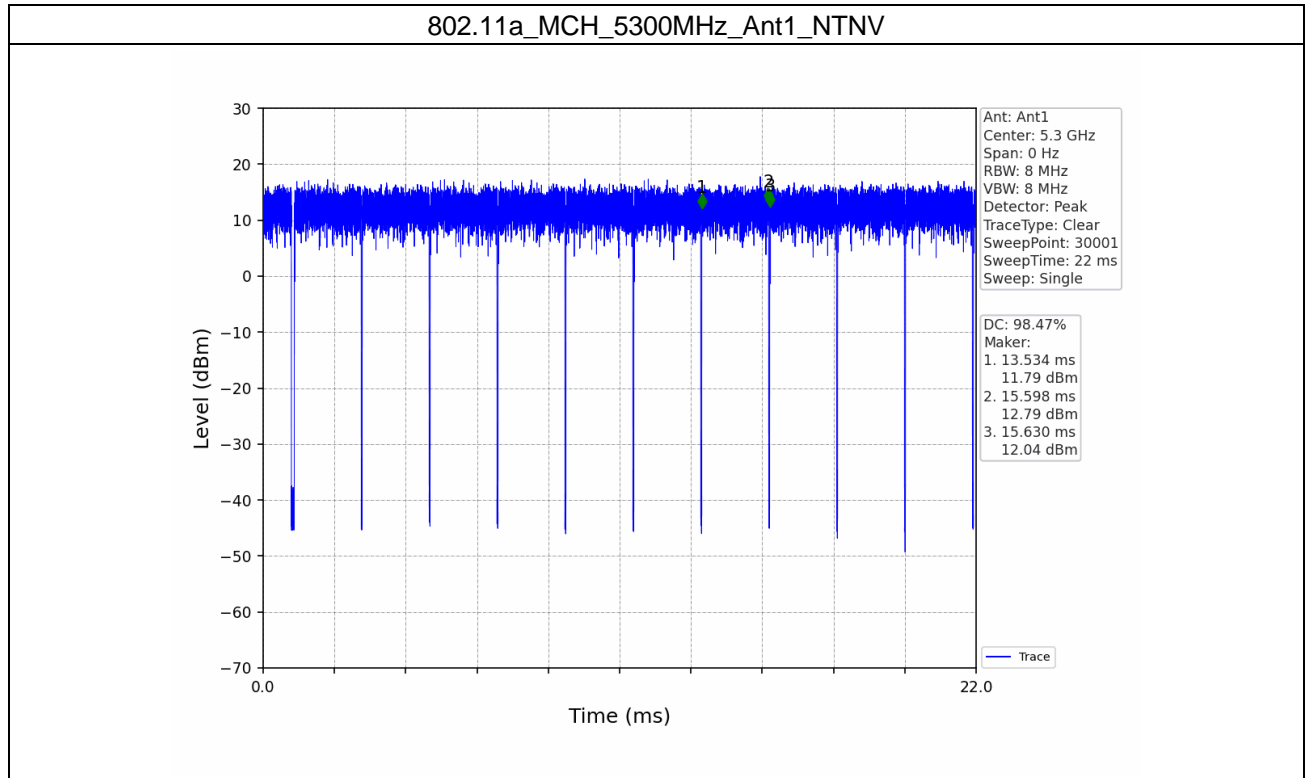
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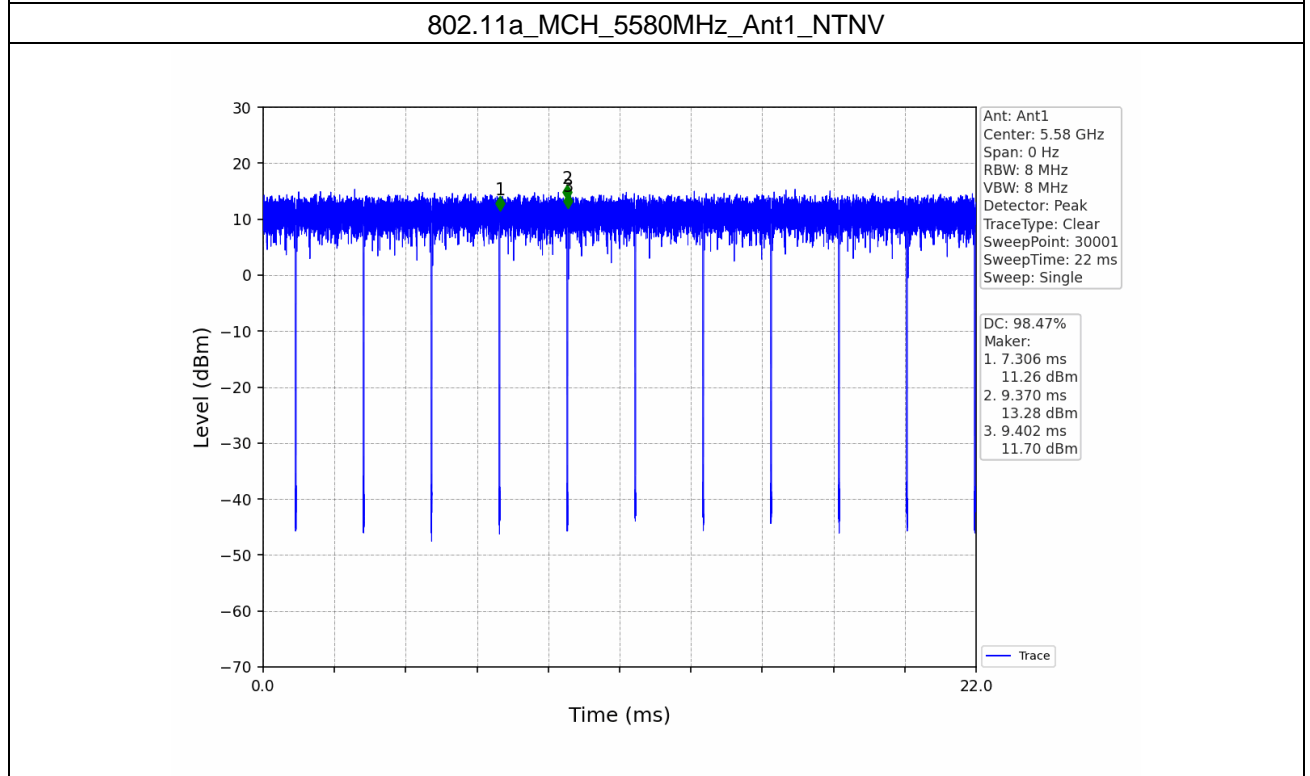
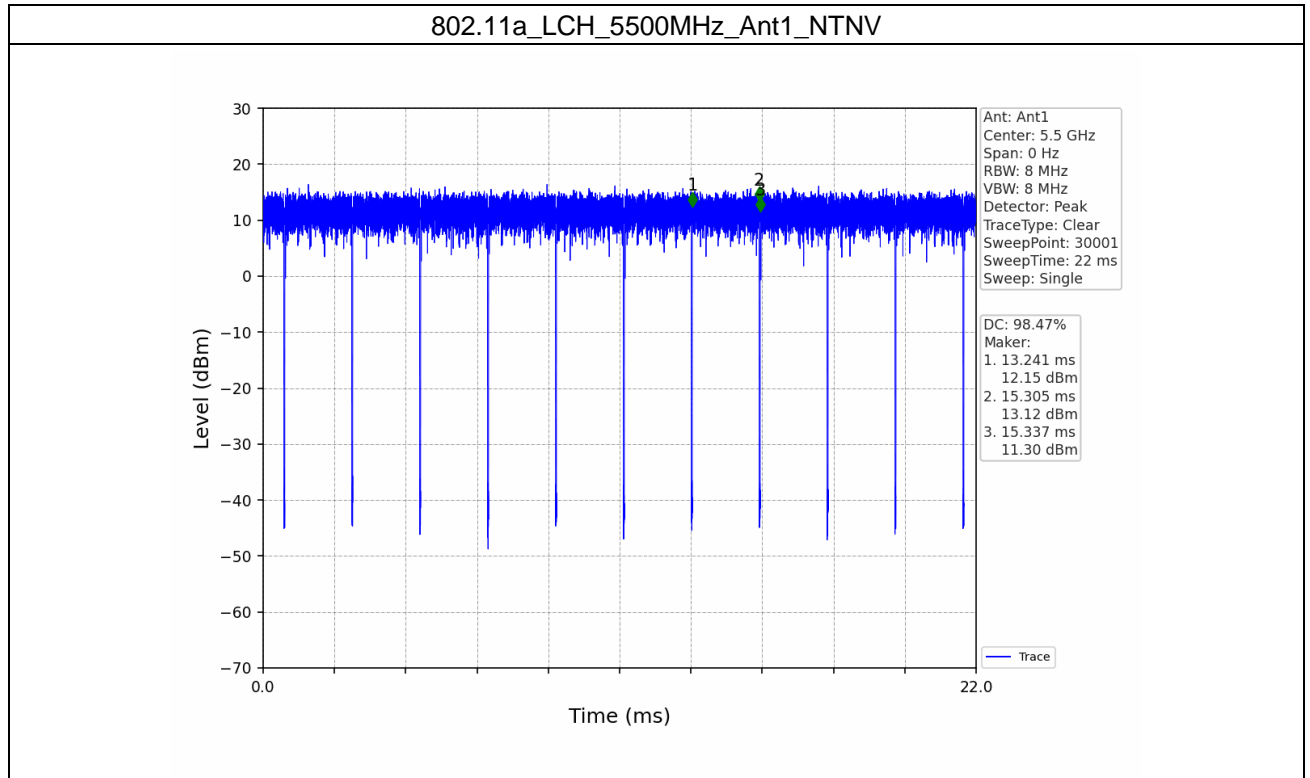
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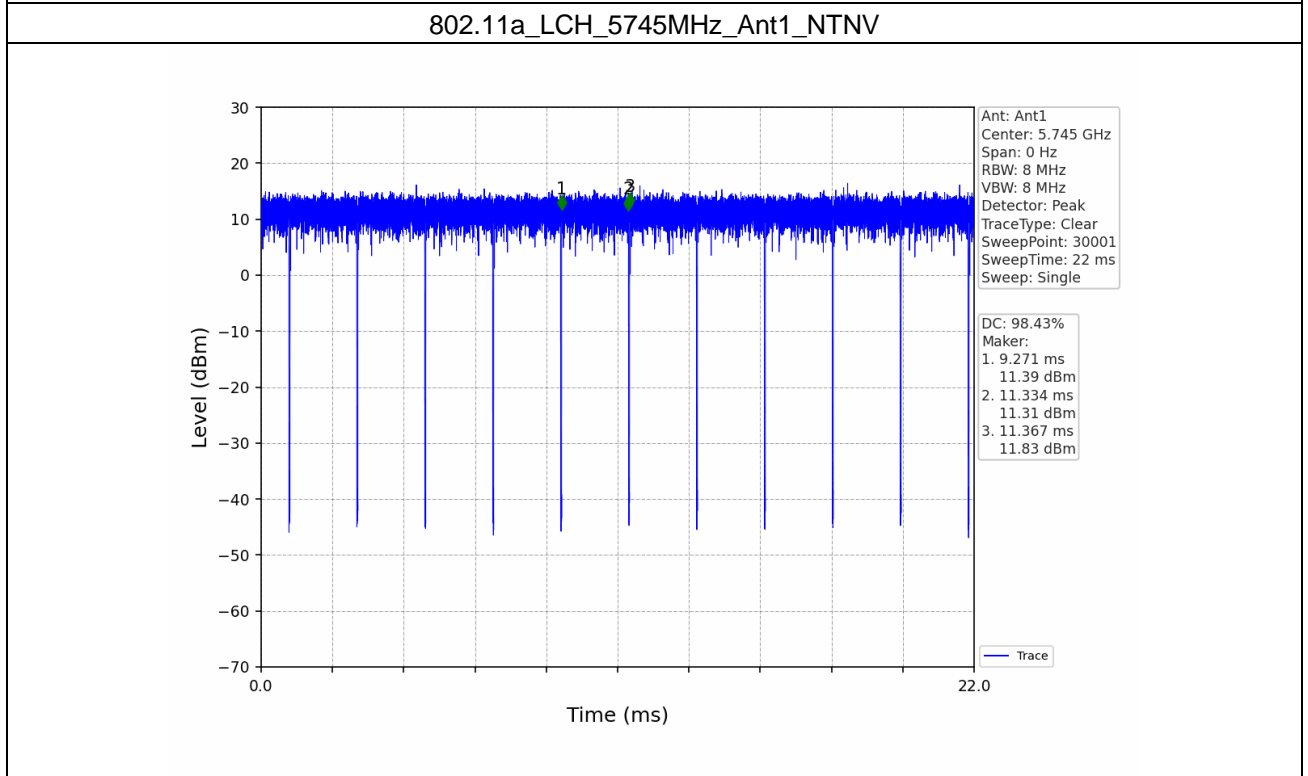
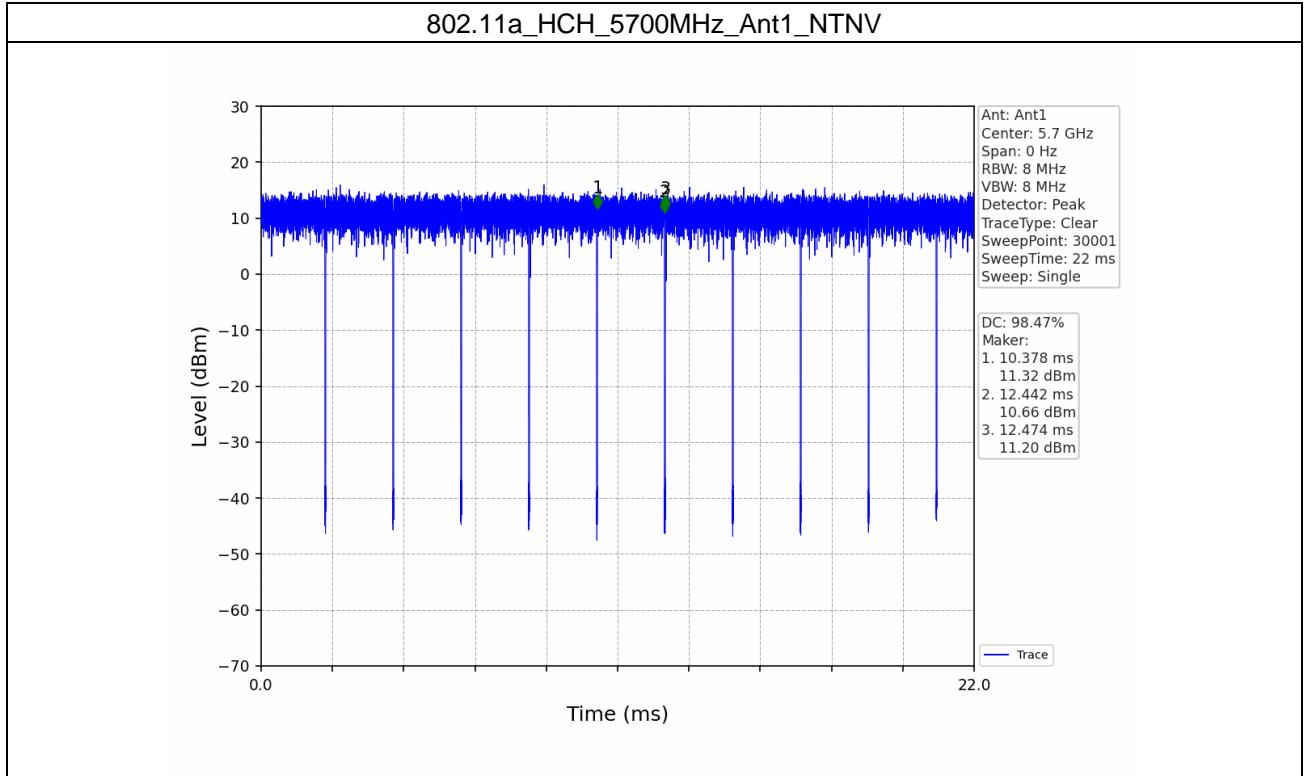
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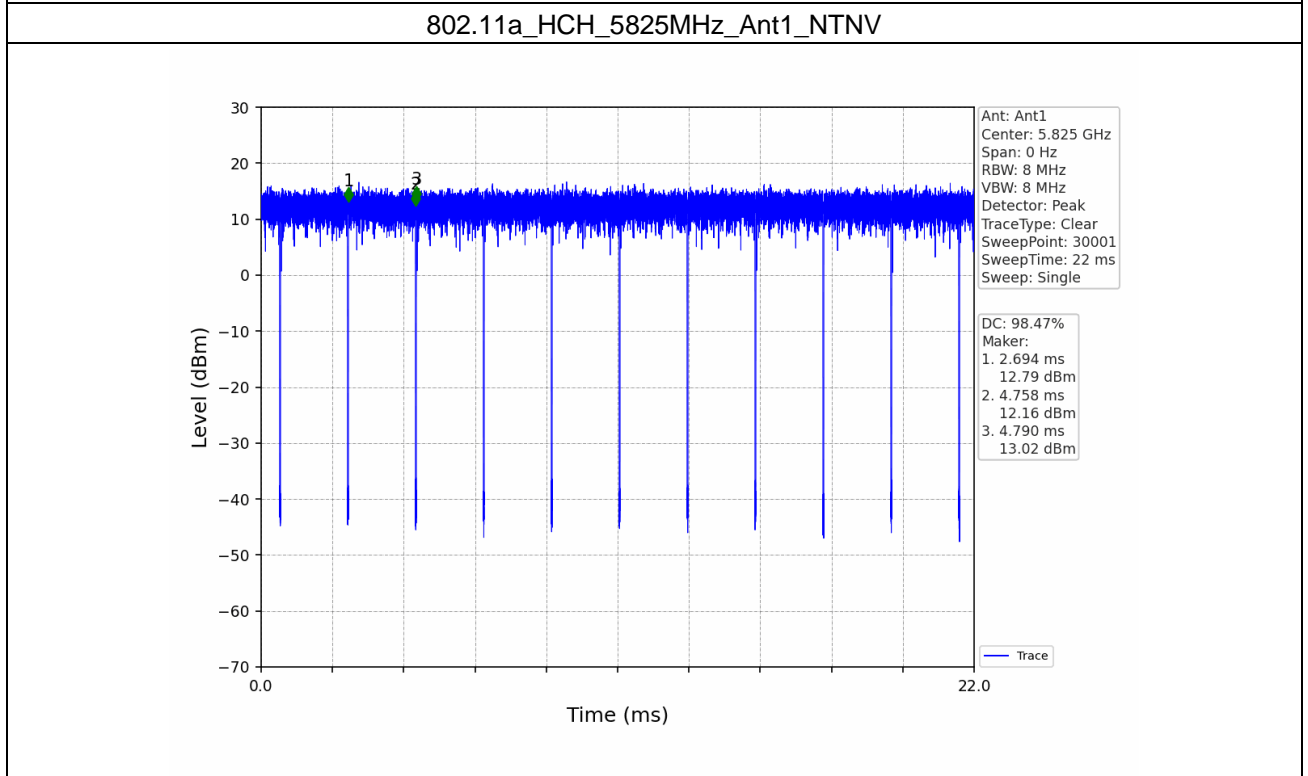
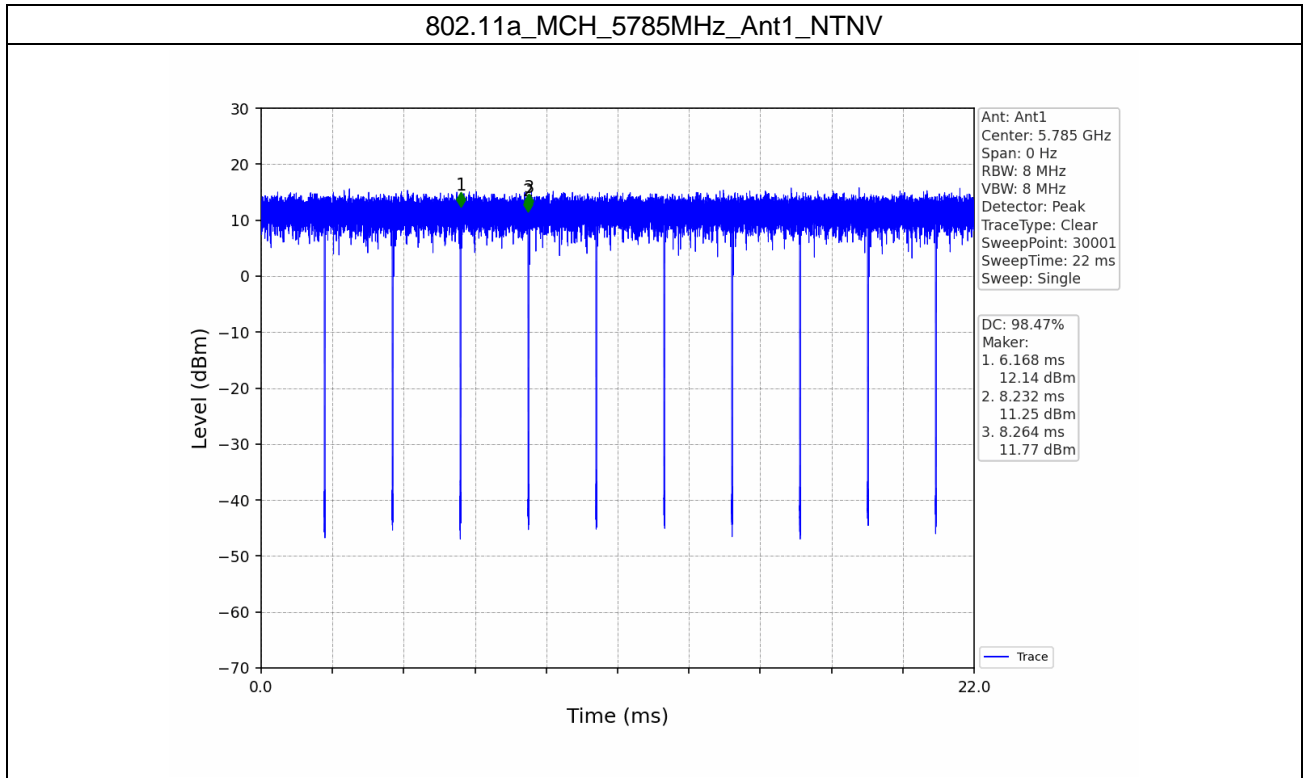
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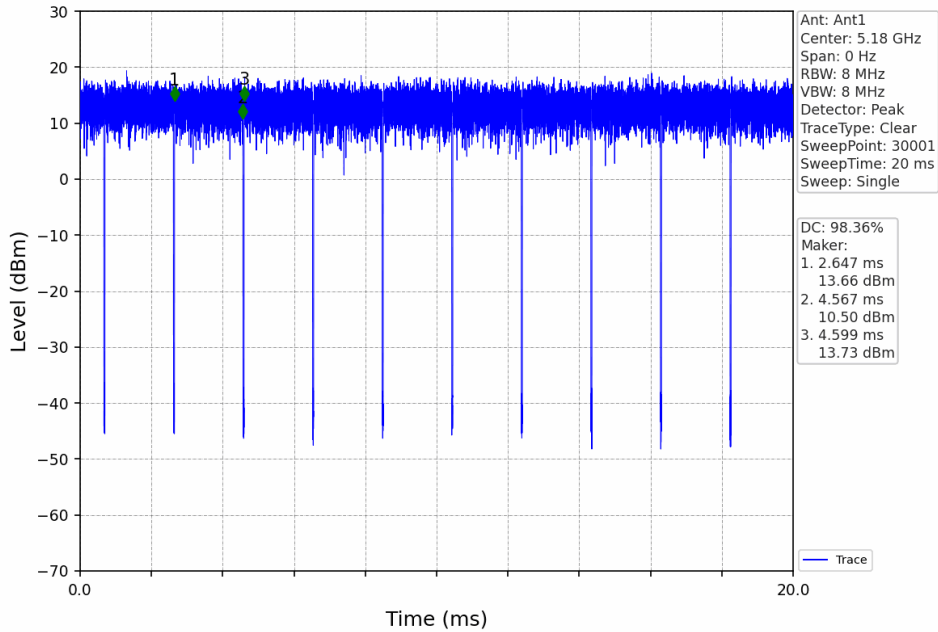


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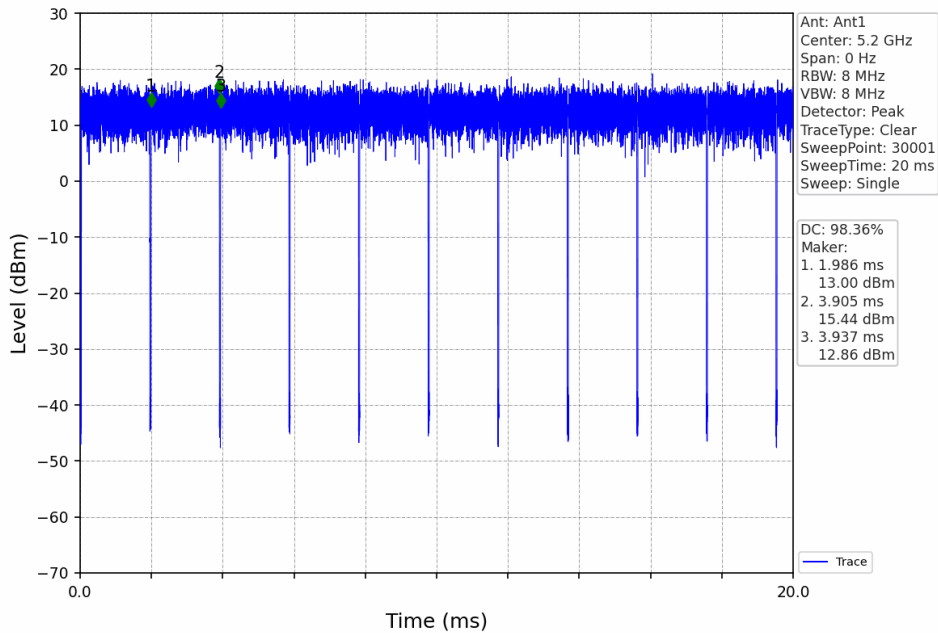
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### 802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



### 802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV

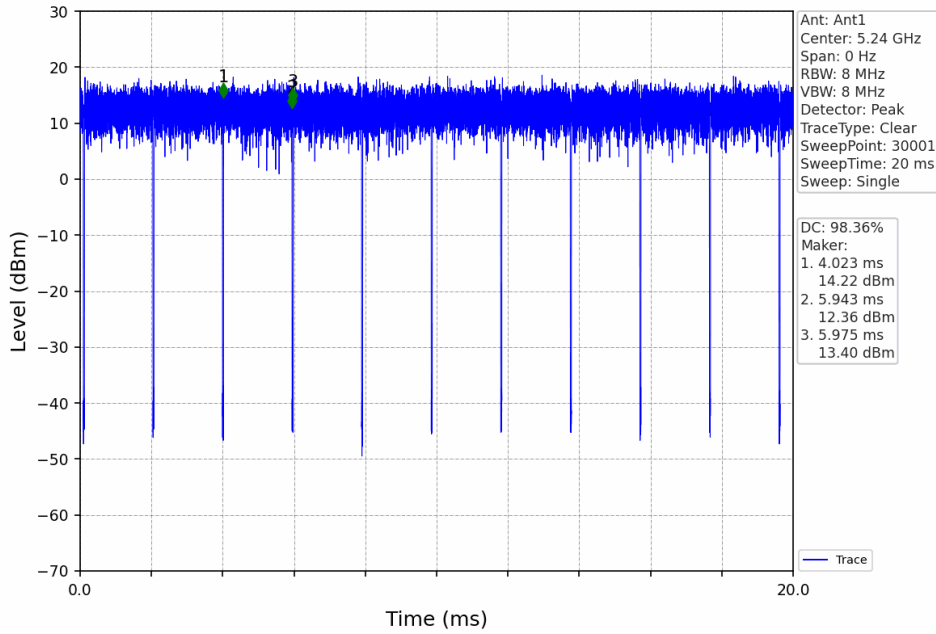


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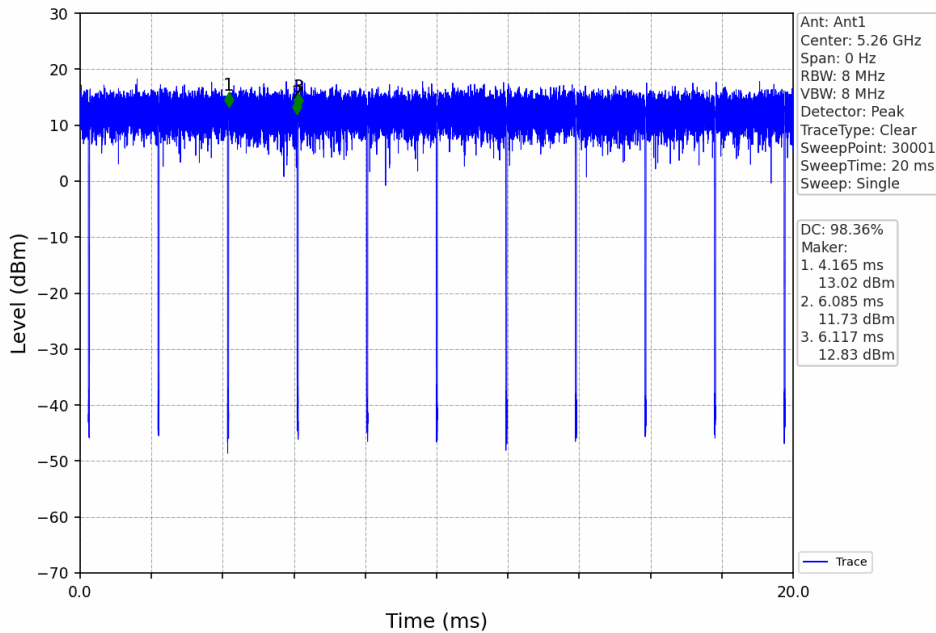
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### 802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV

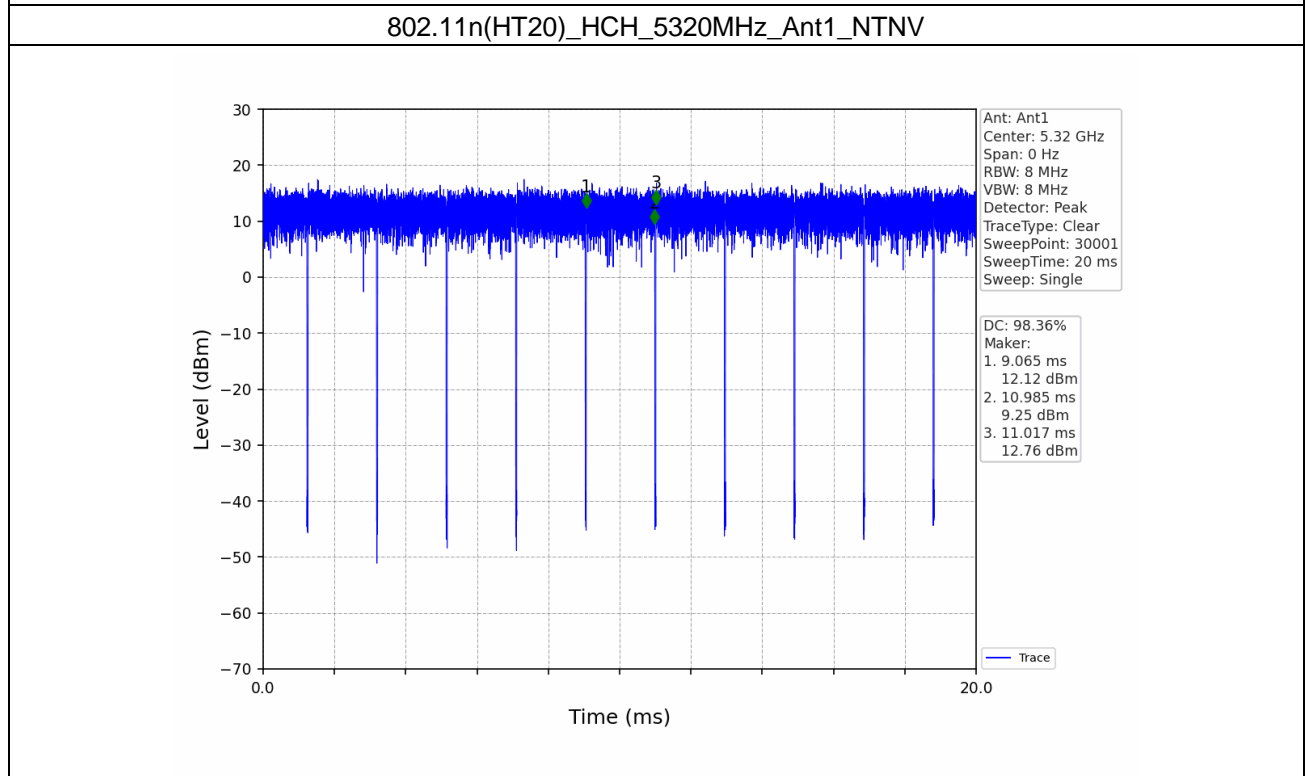
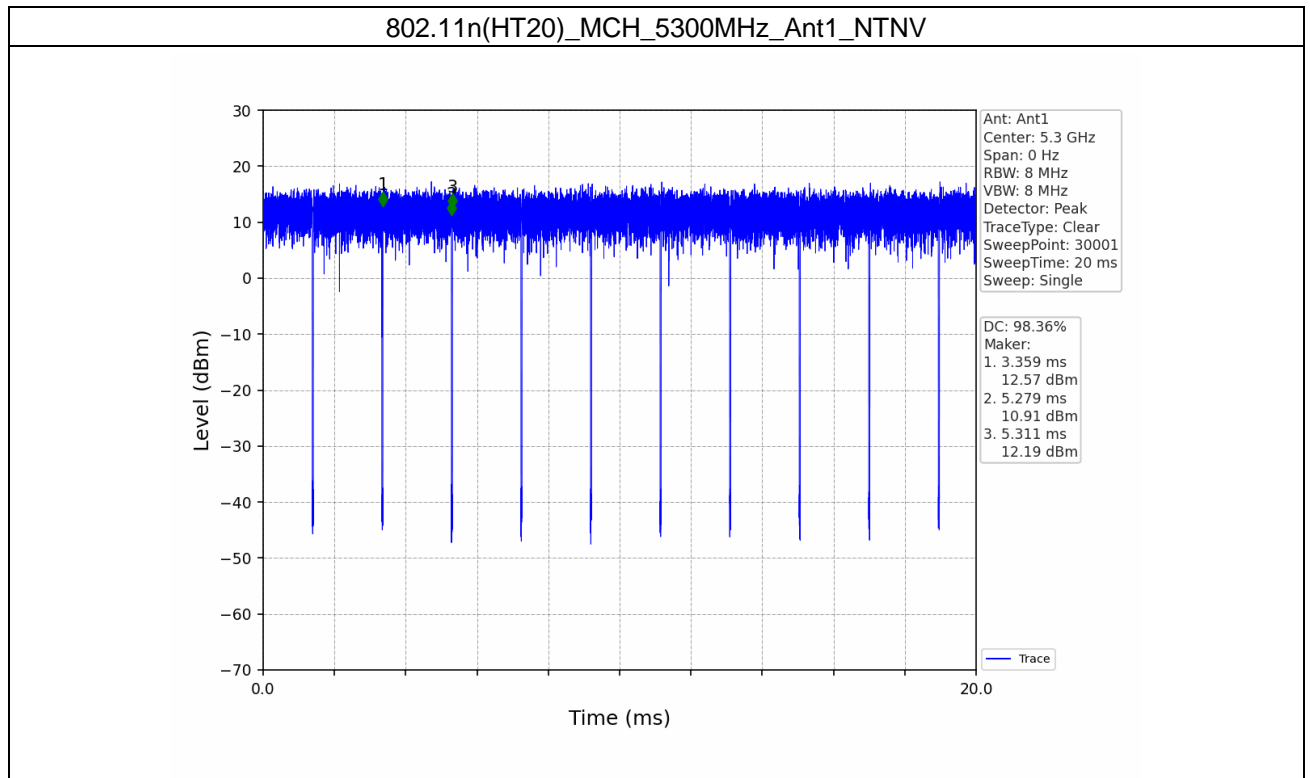


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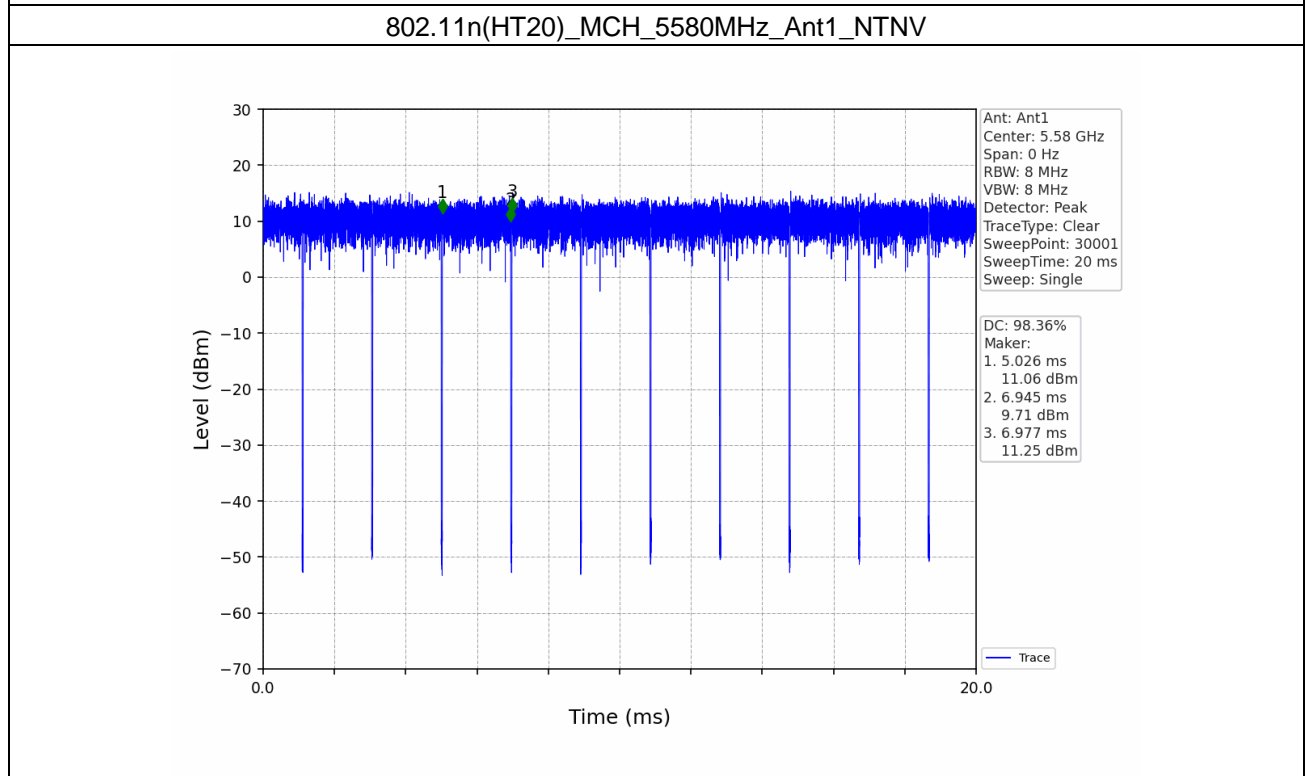
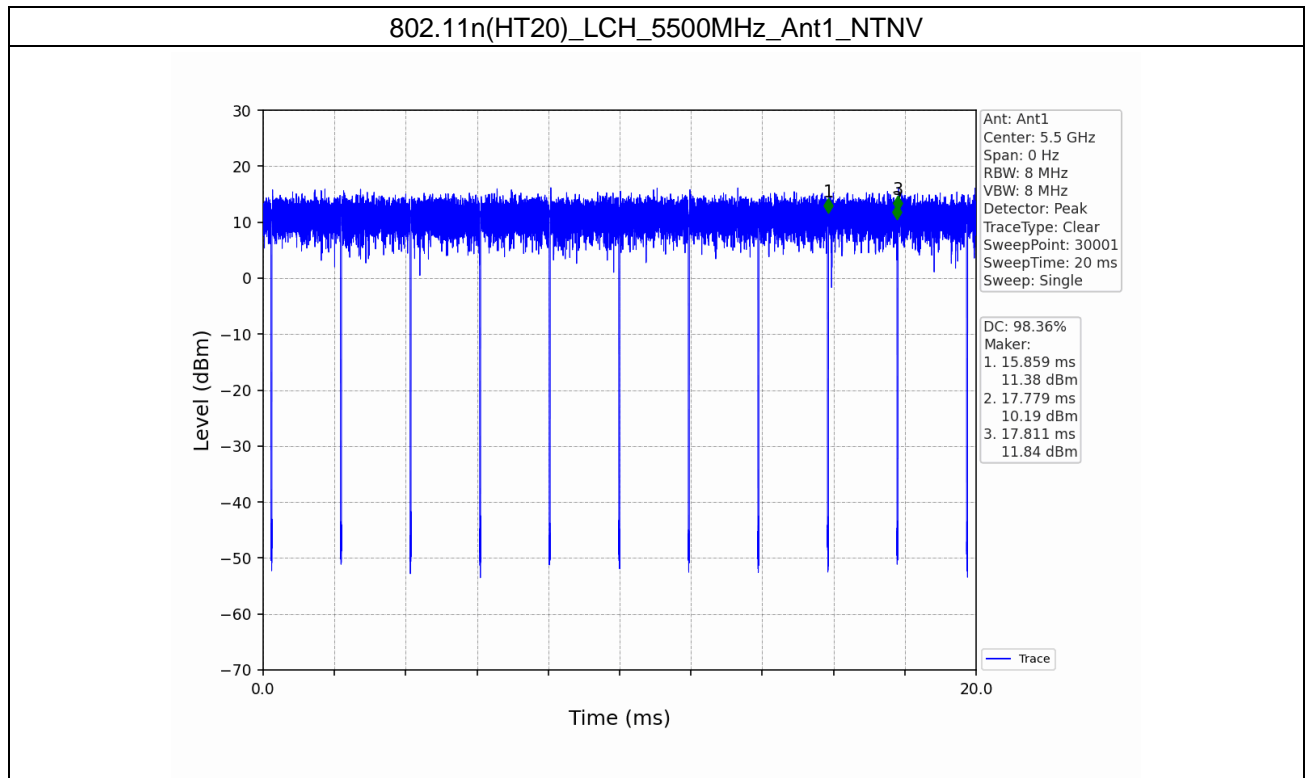


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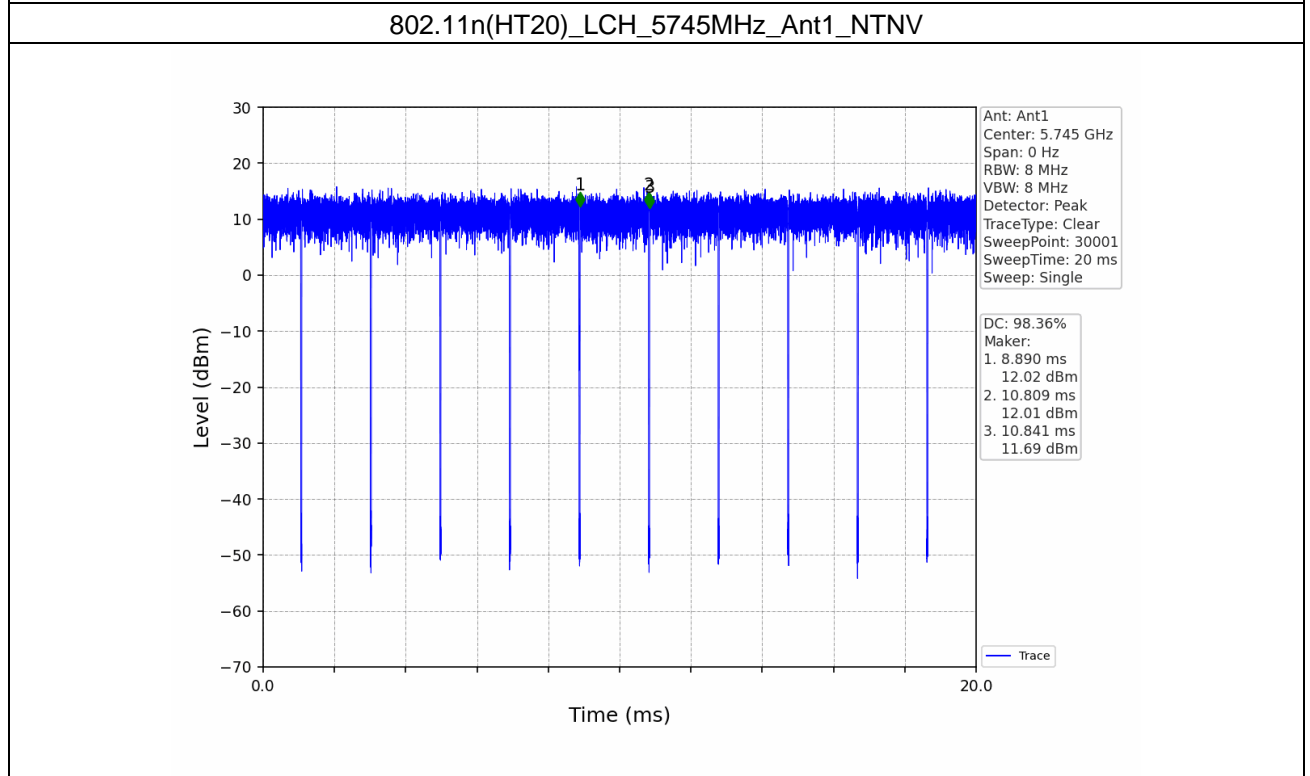
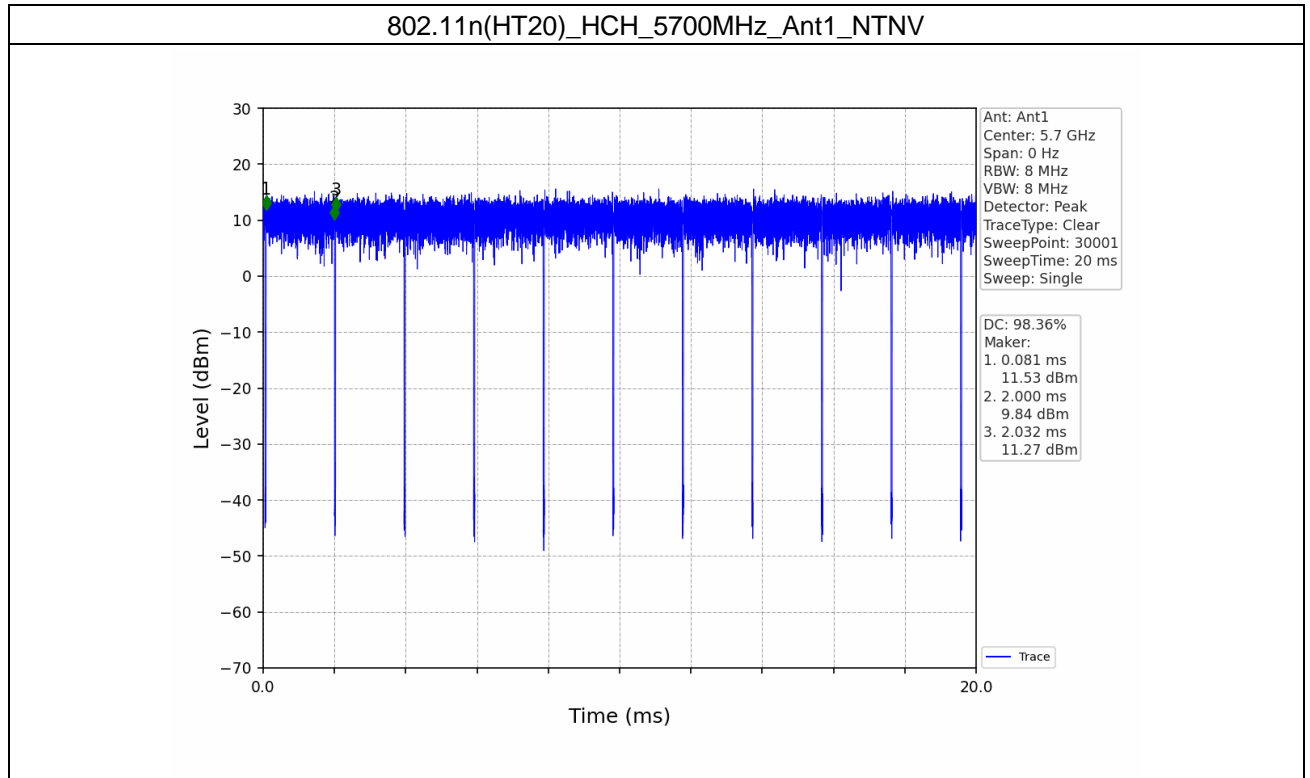




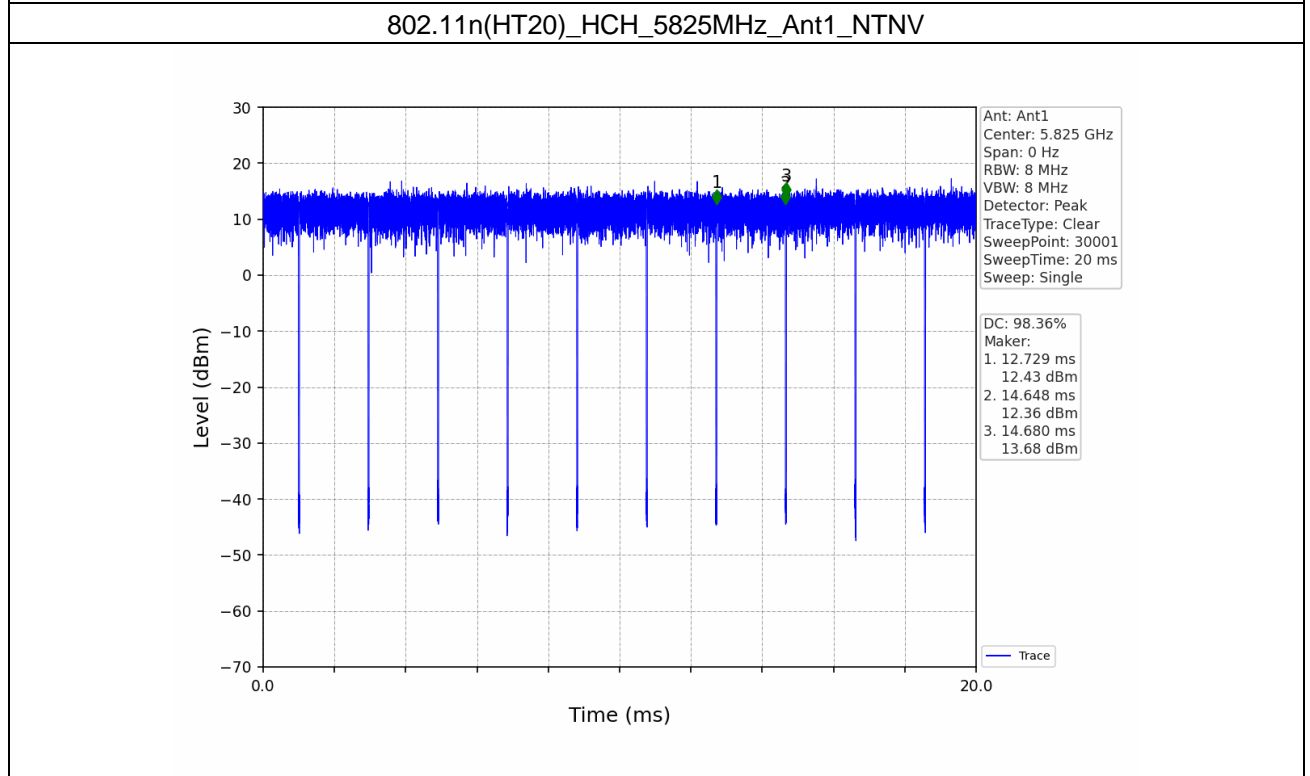
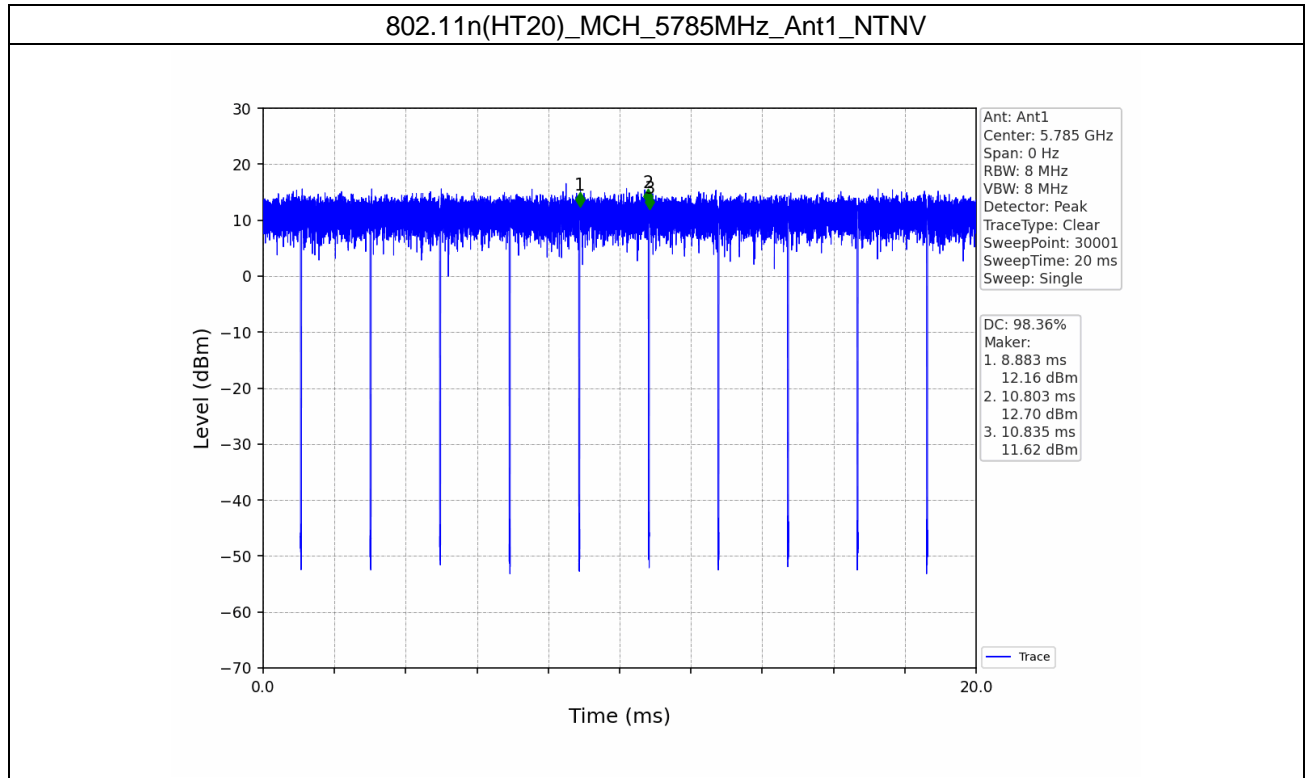
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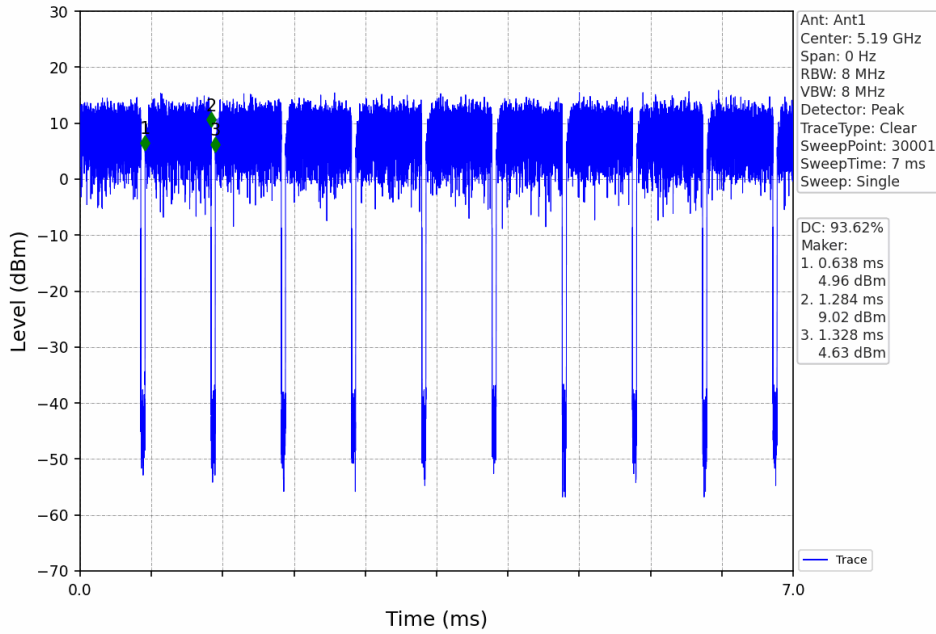


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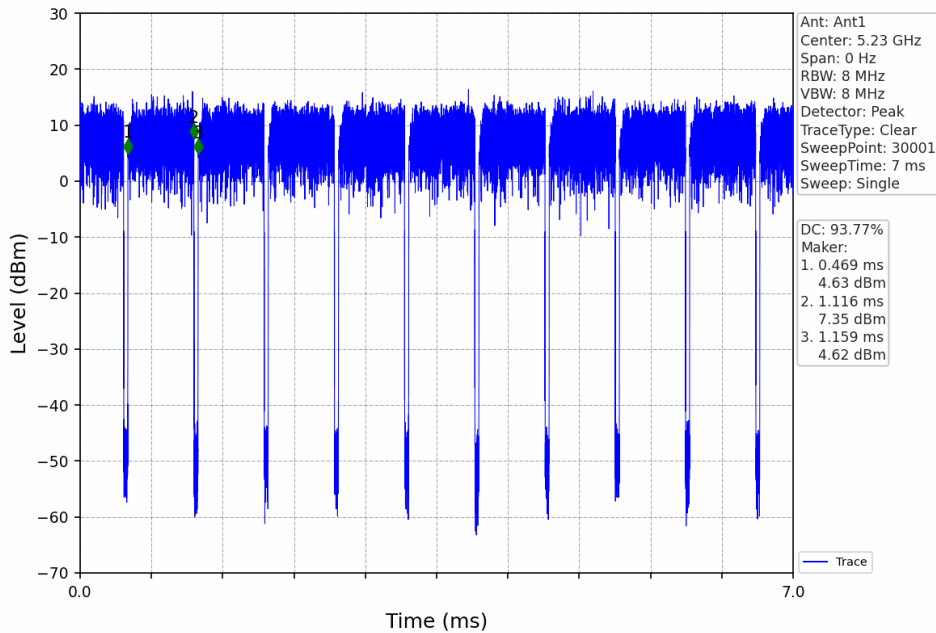


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### 802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



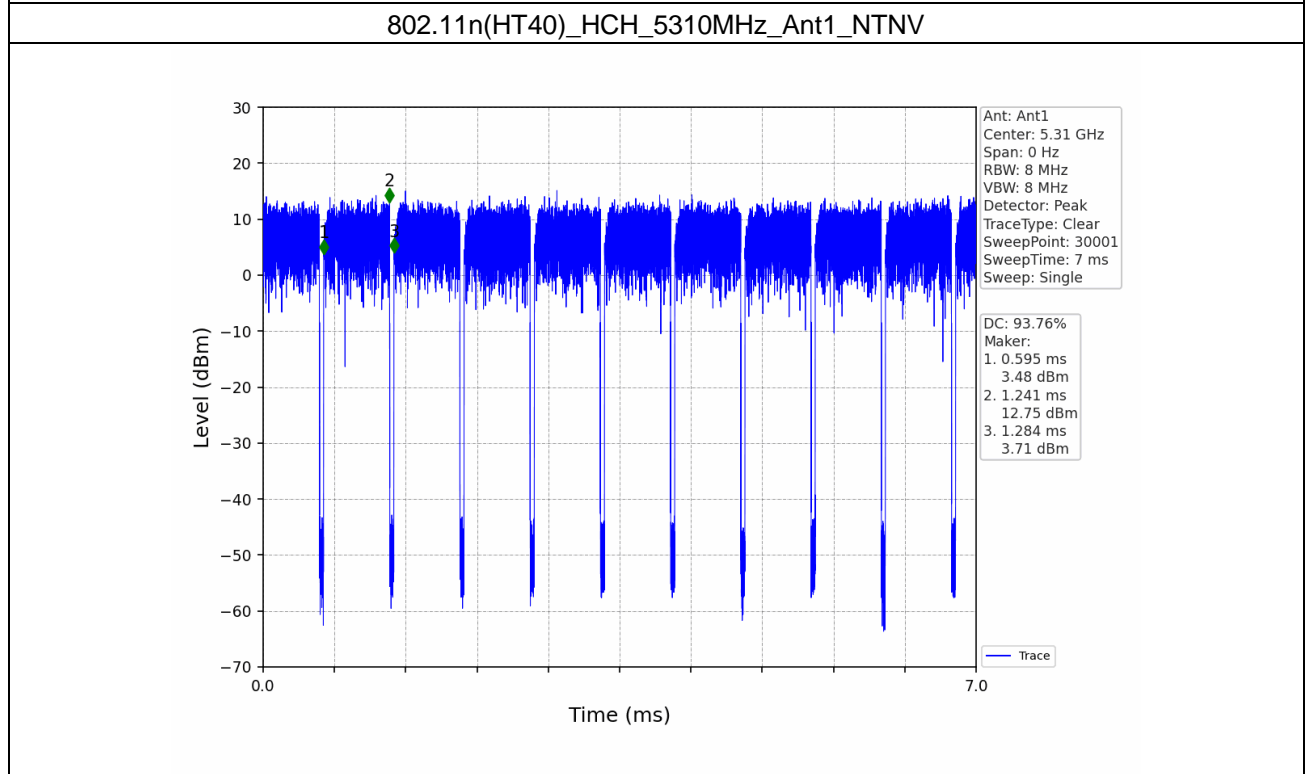
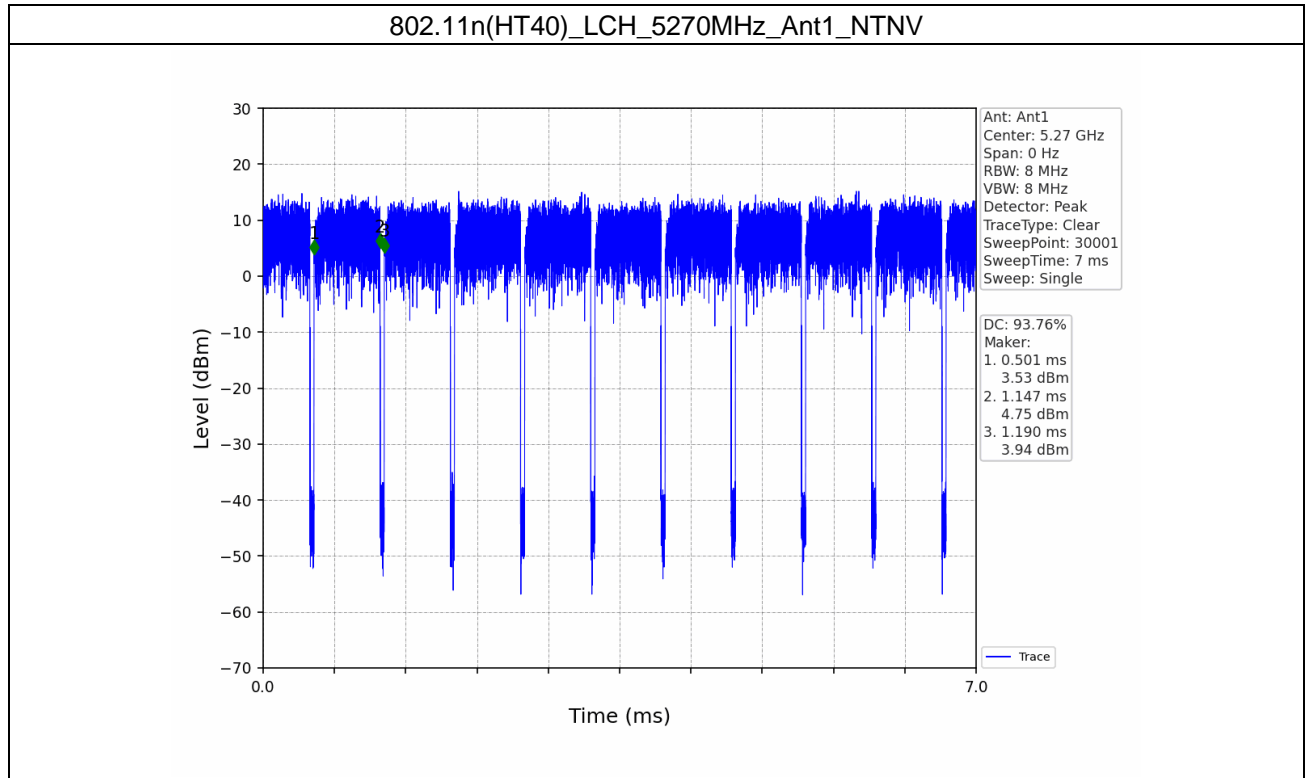
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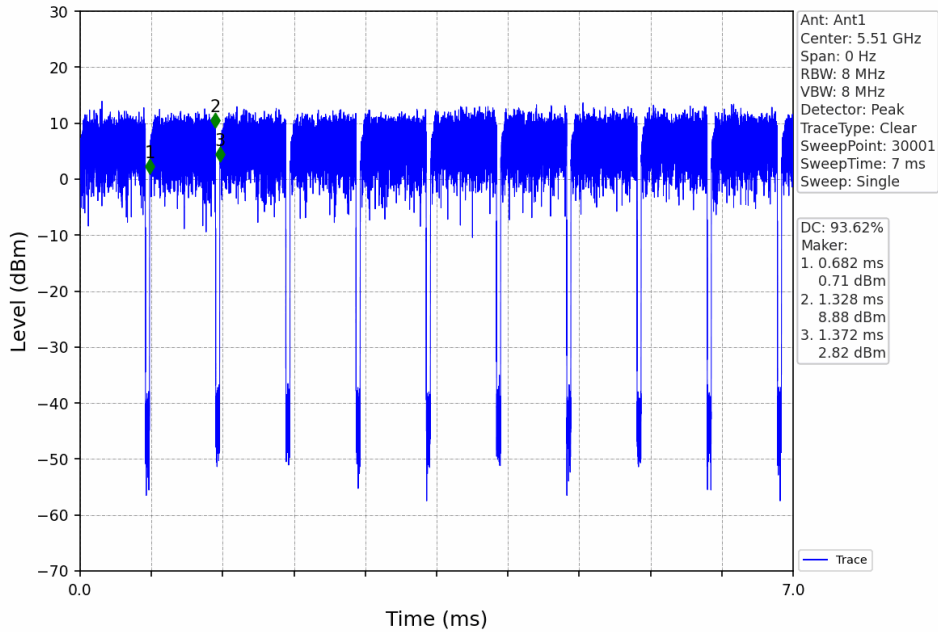
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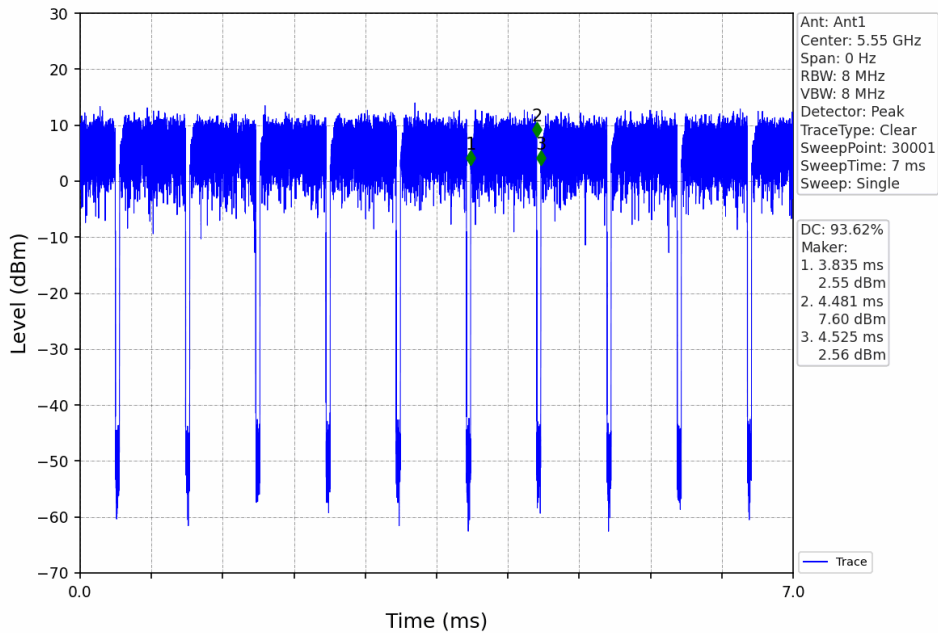
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802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV

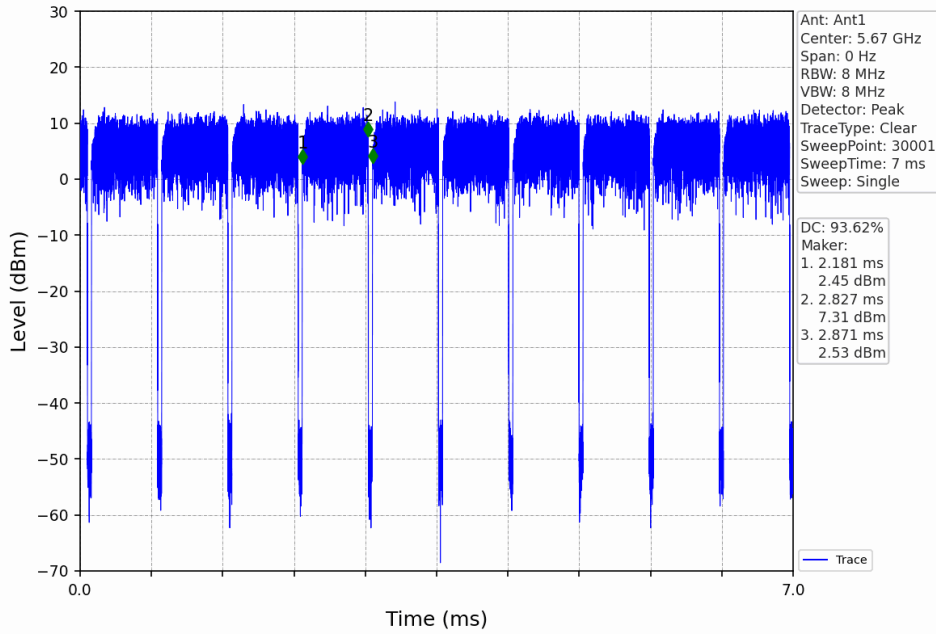


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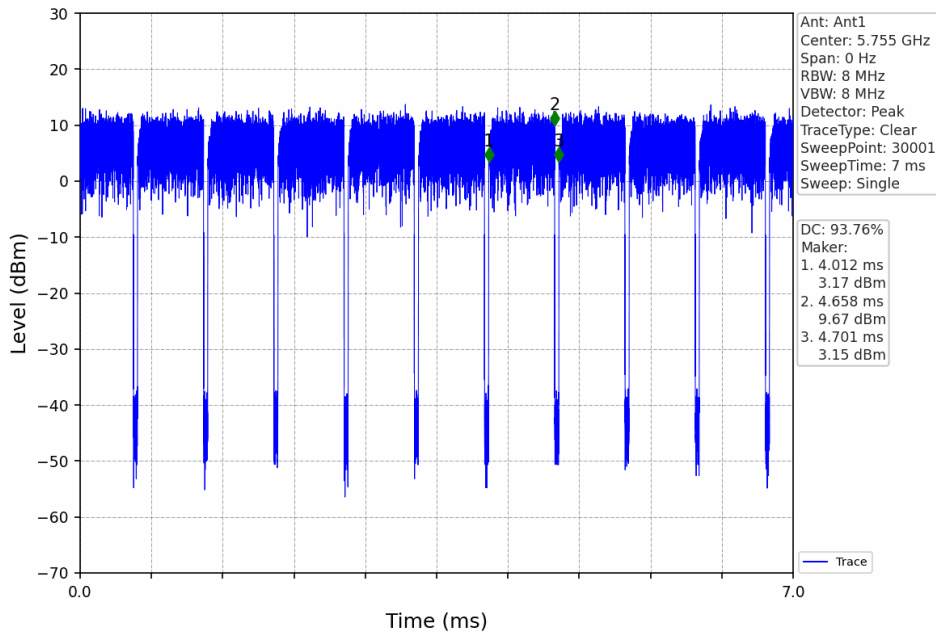
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802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV

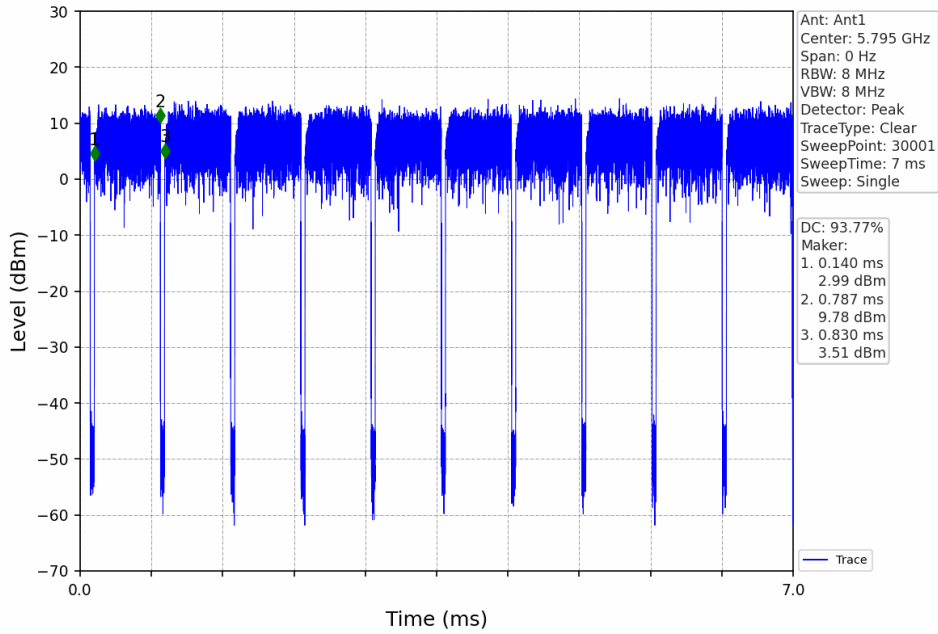


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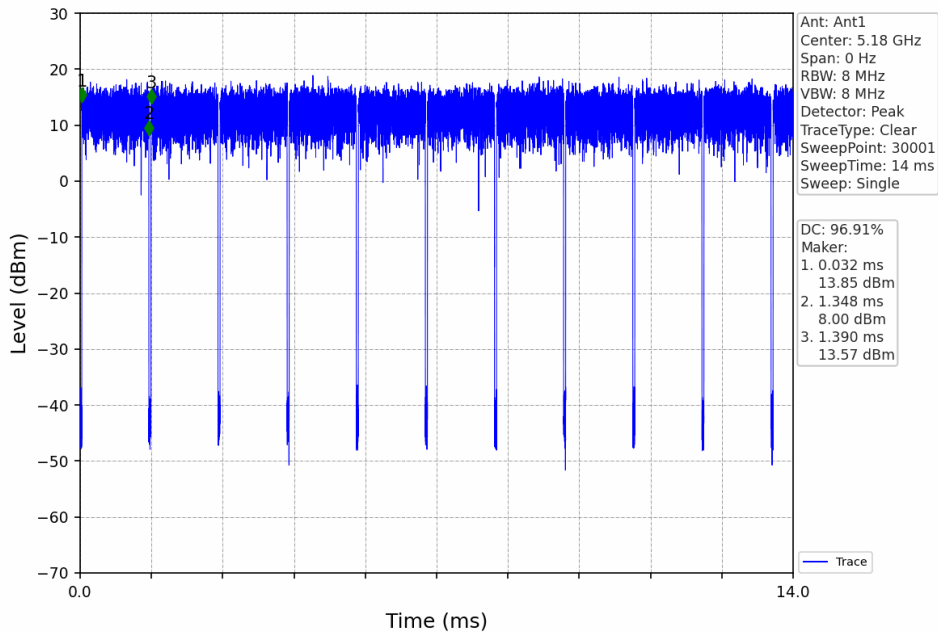
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### 802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV

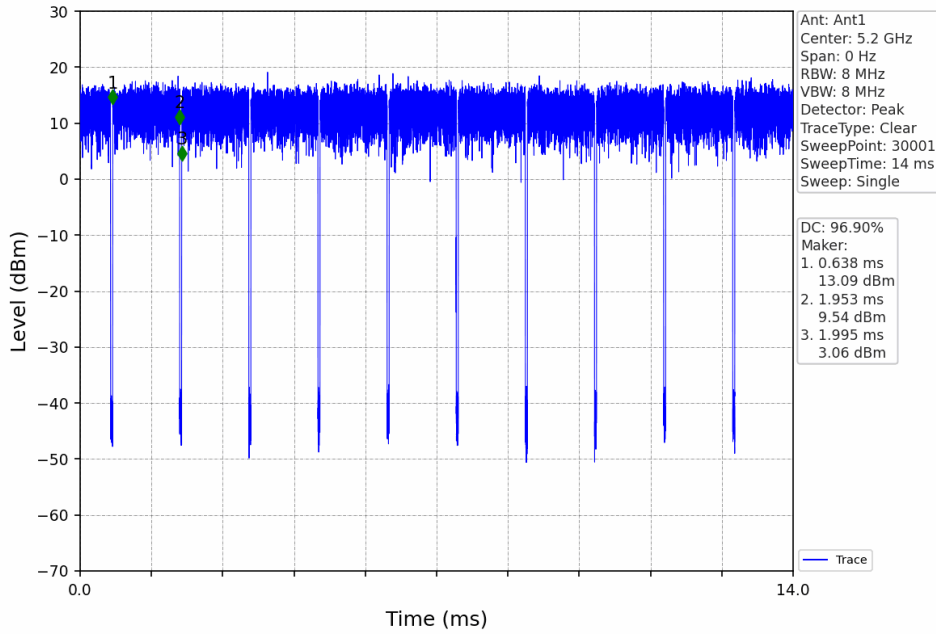


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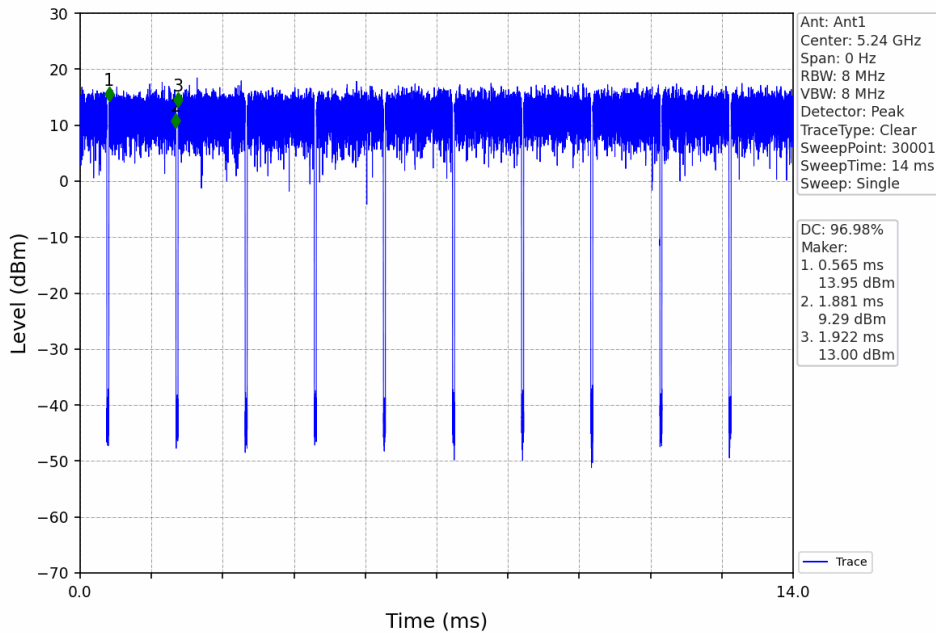
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### 802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



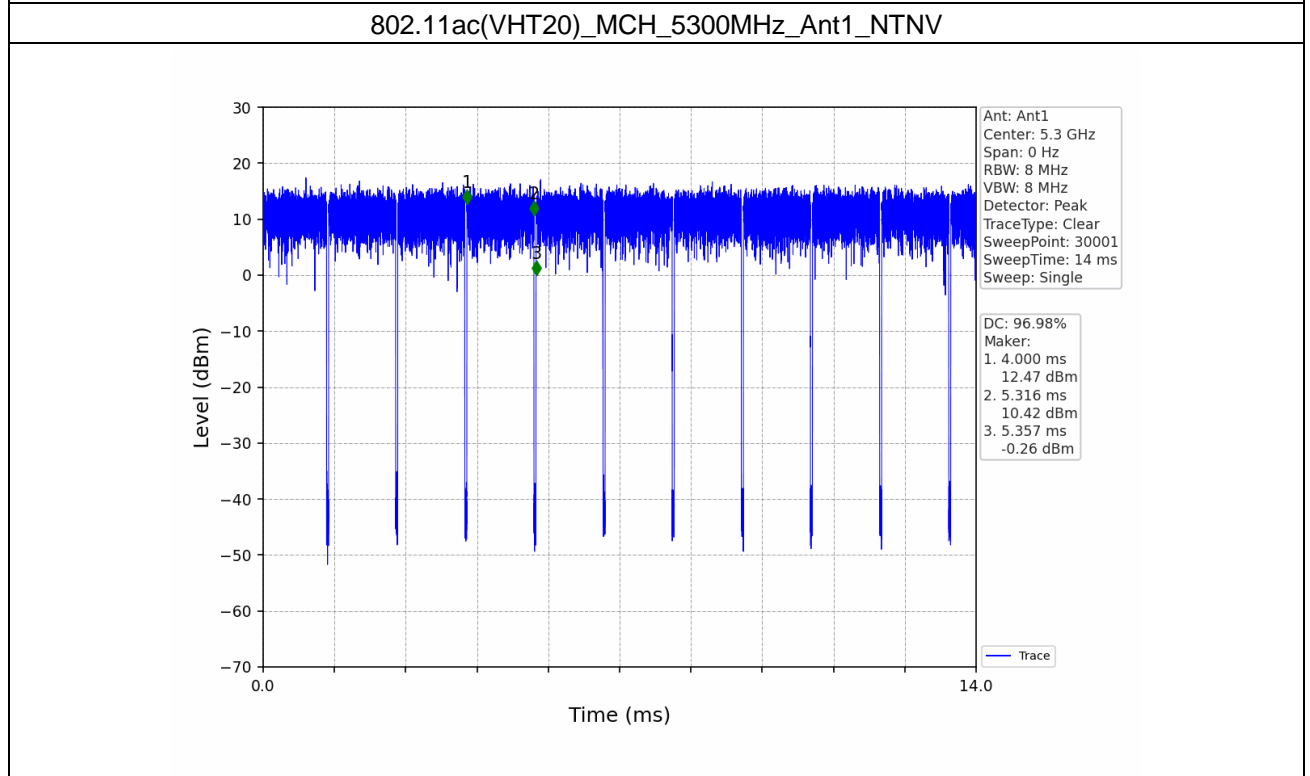
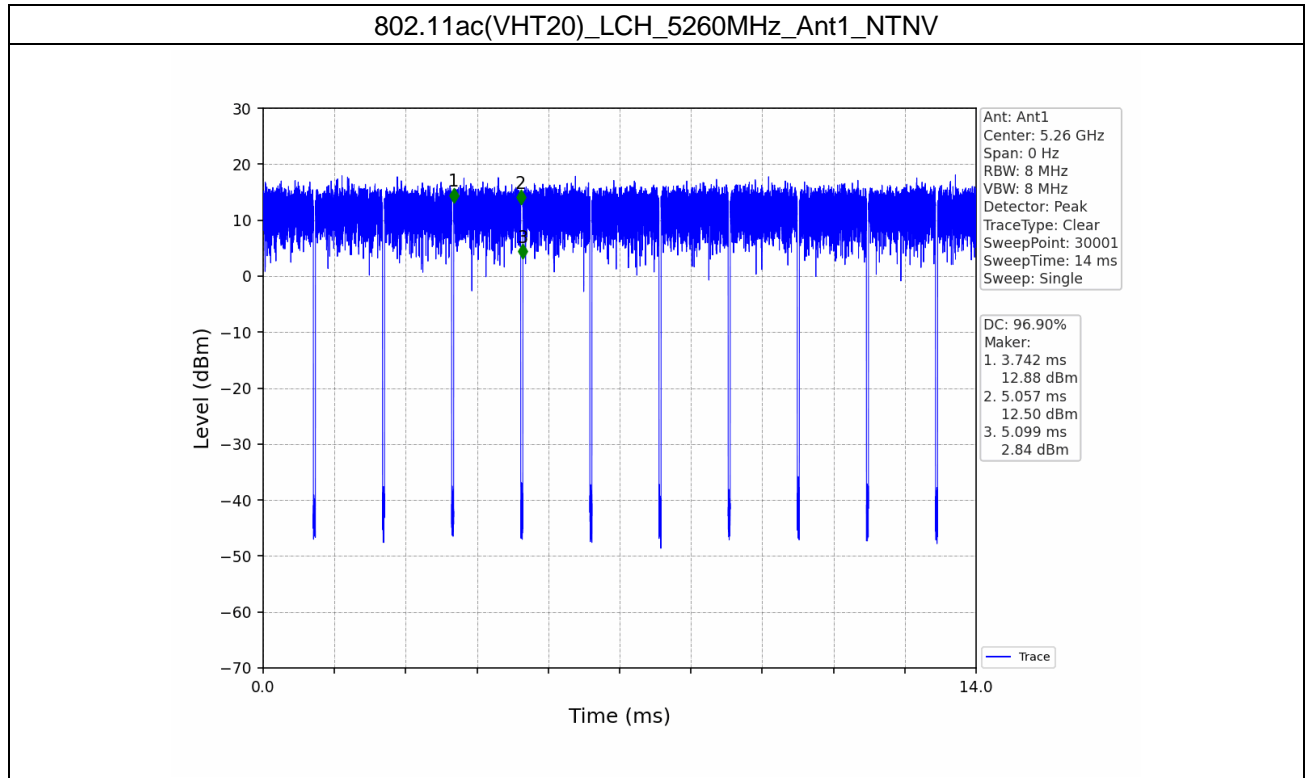
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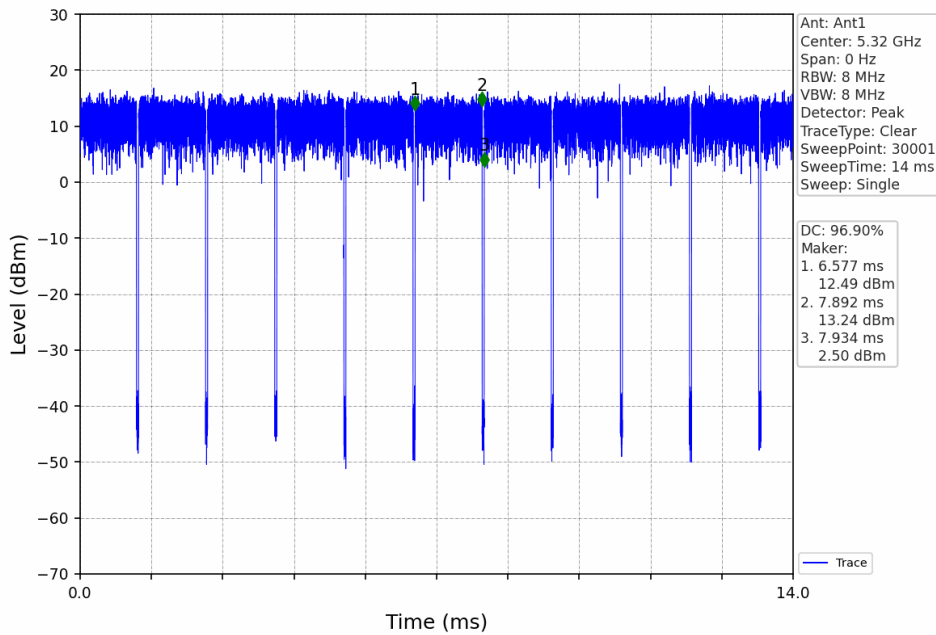


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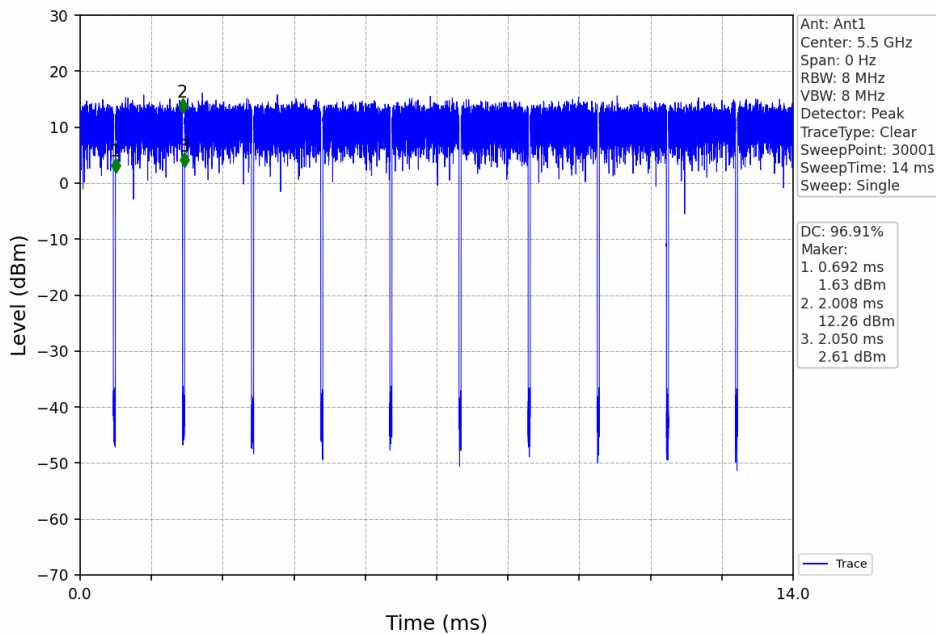
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### 802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV

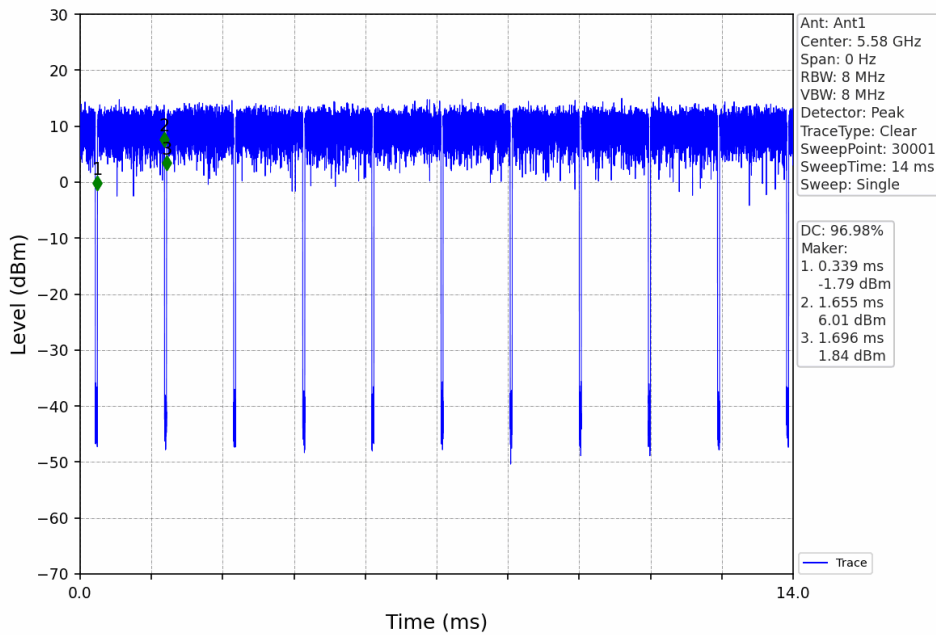


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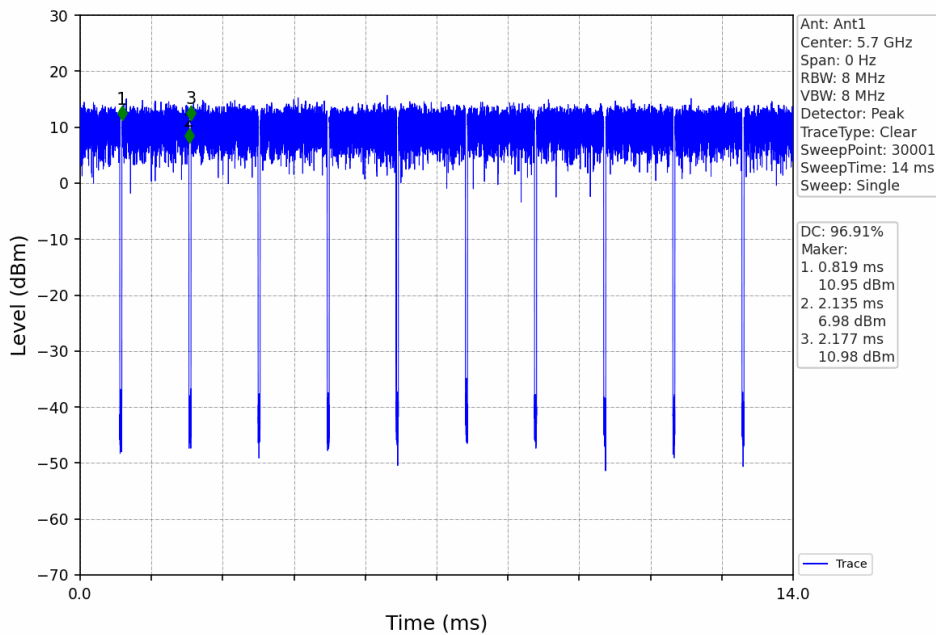
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### 802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV

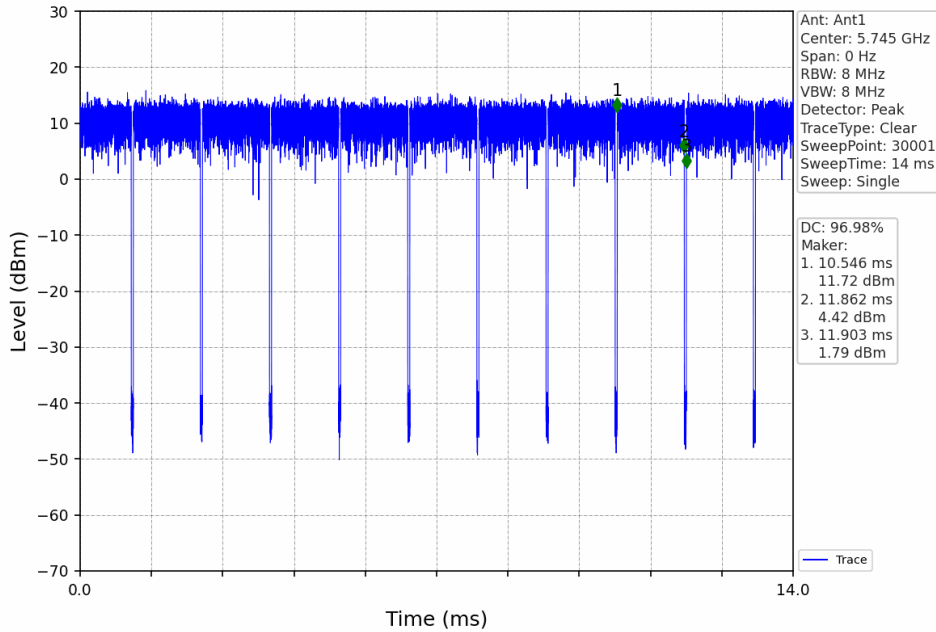


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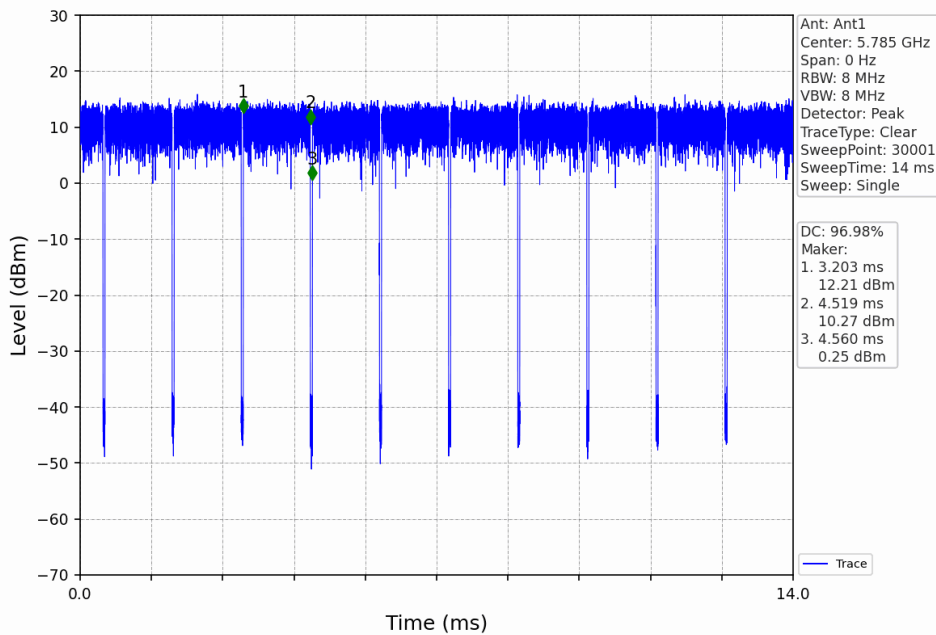
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### 802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV

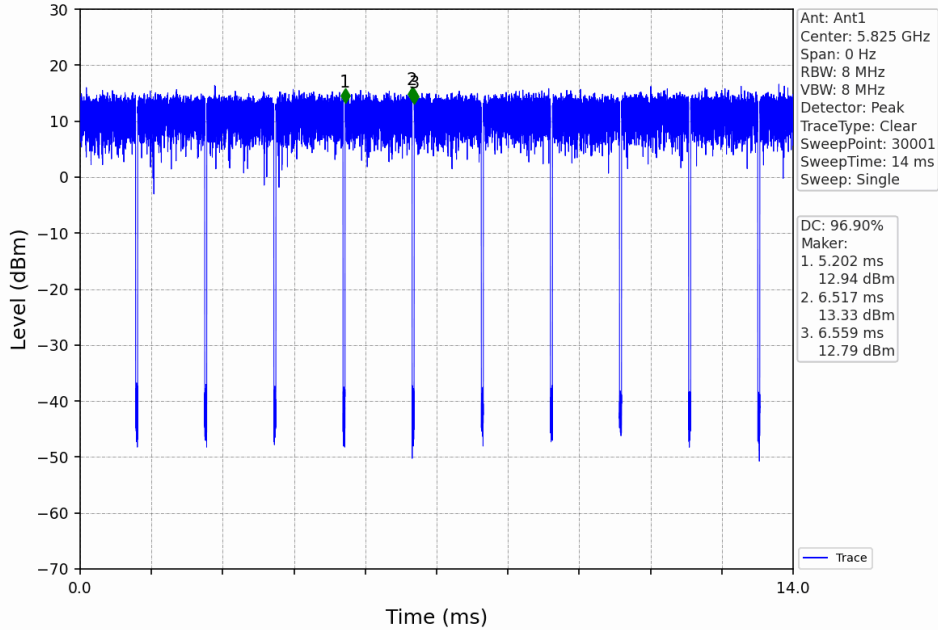


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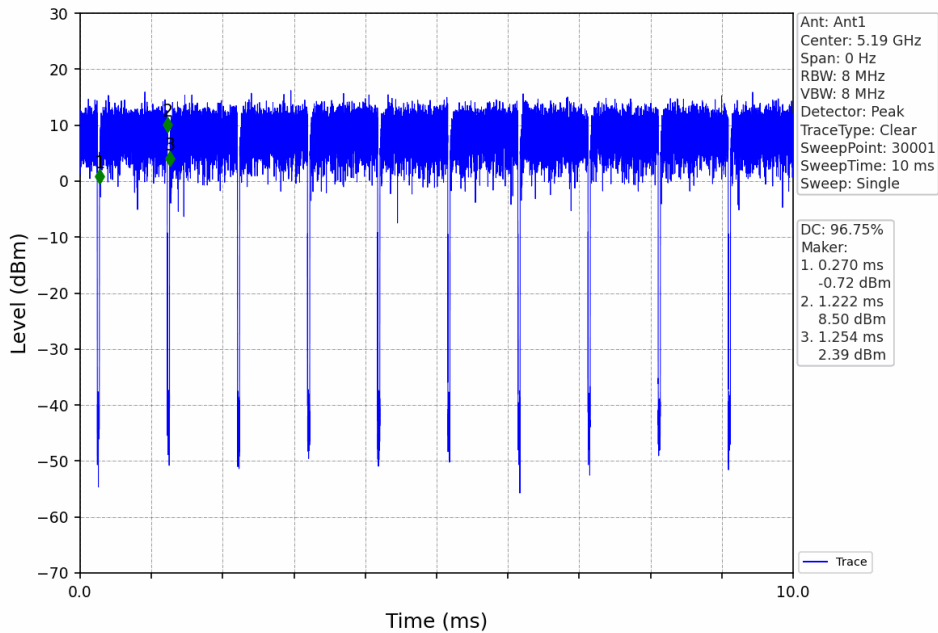
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### 802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV

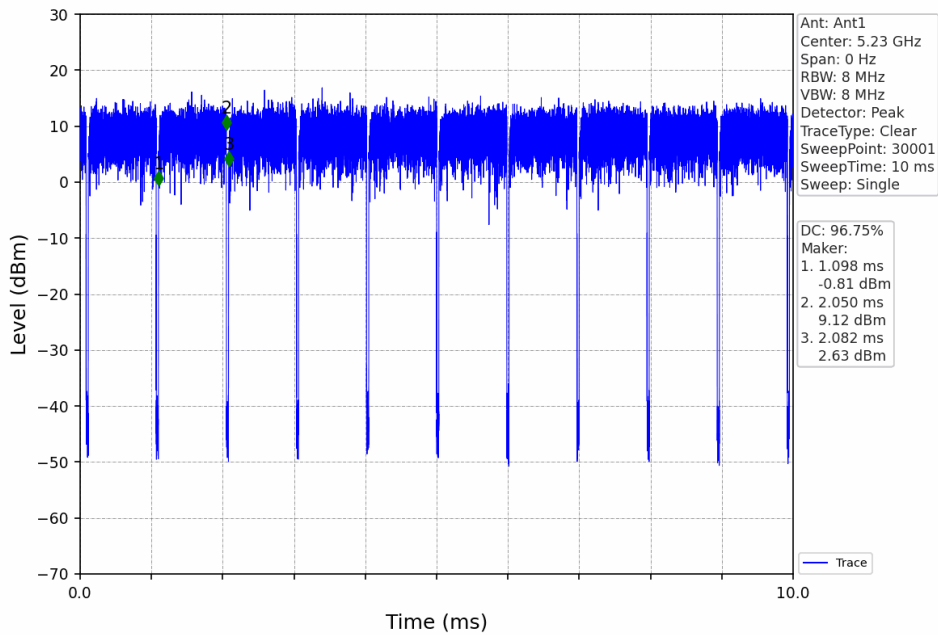


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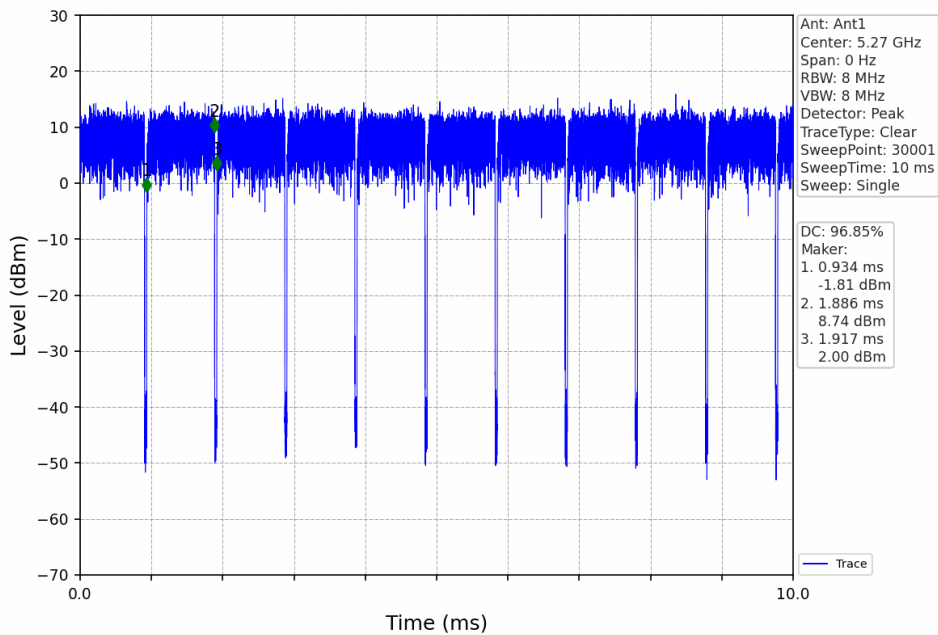
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### 802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



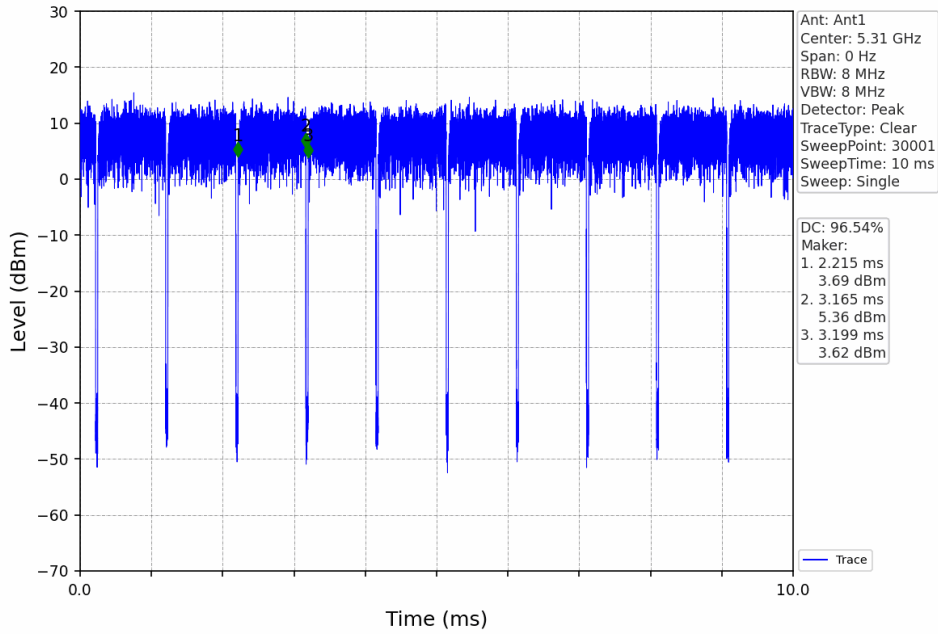
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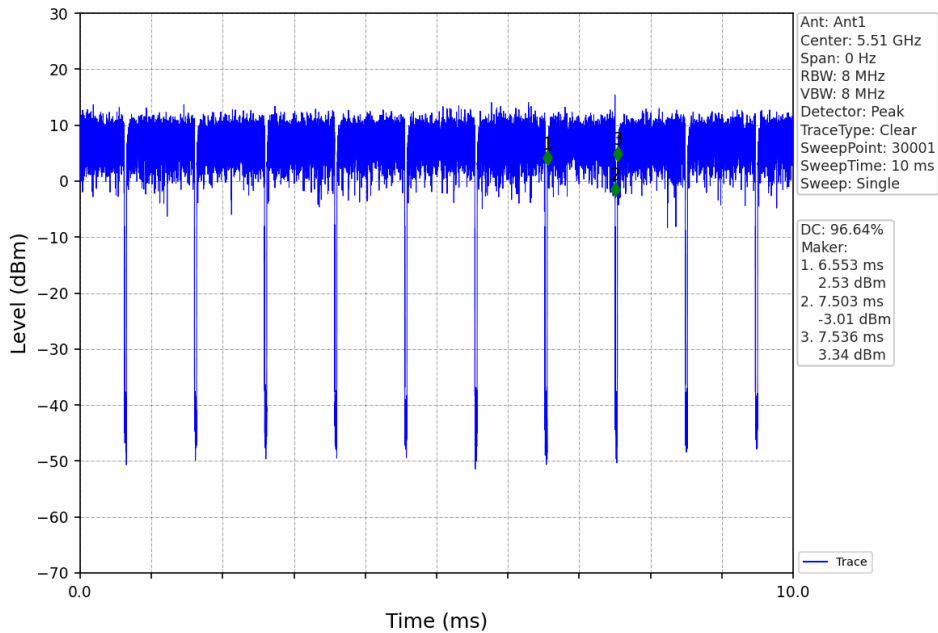
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### 802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV

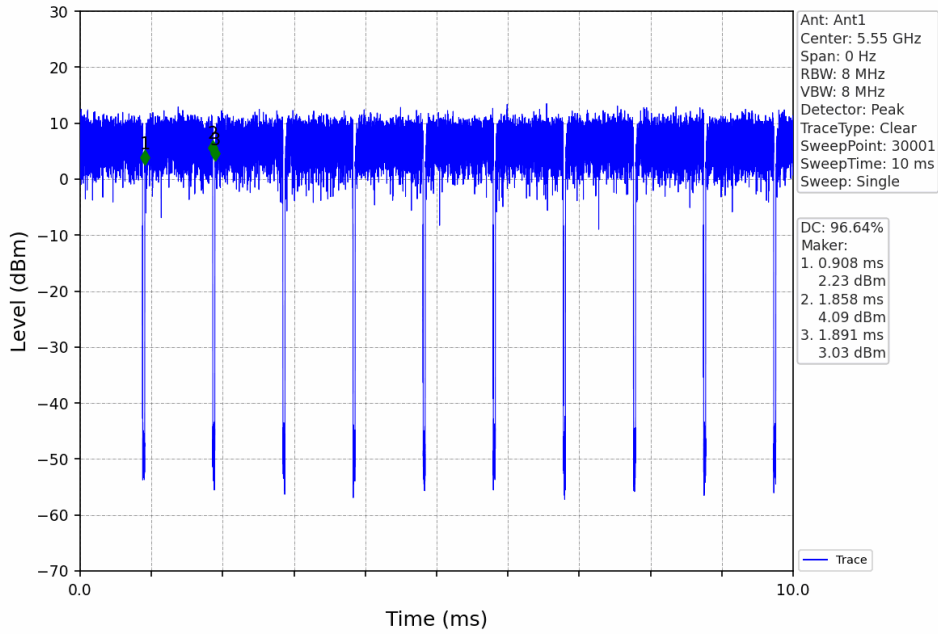


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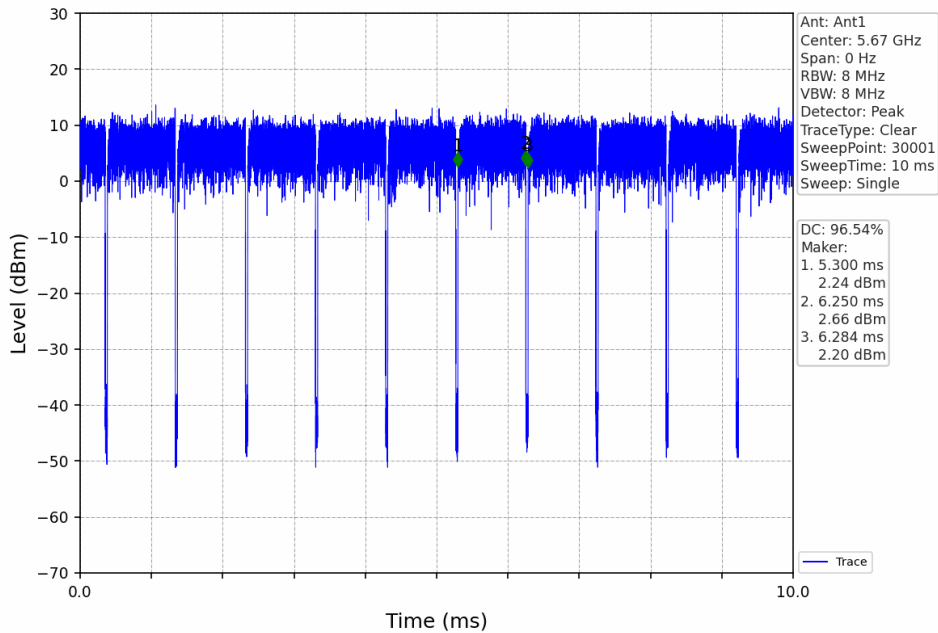
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802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV

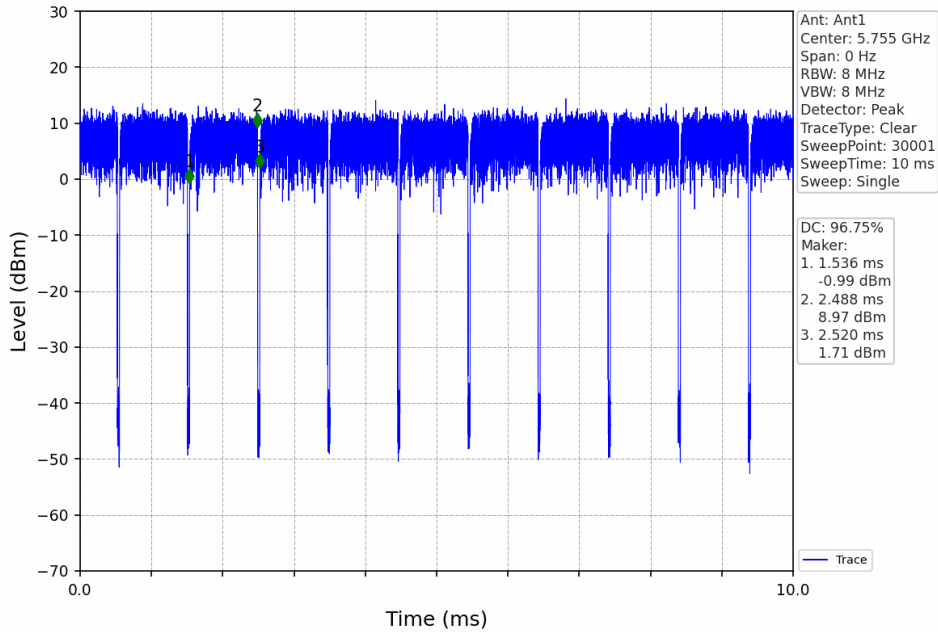


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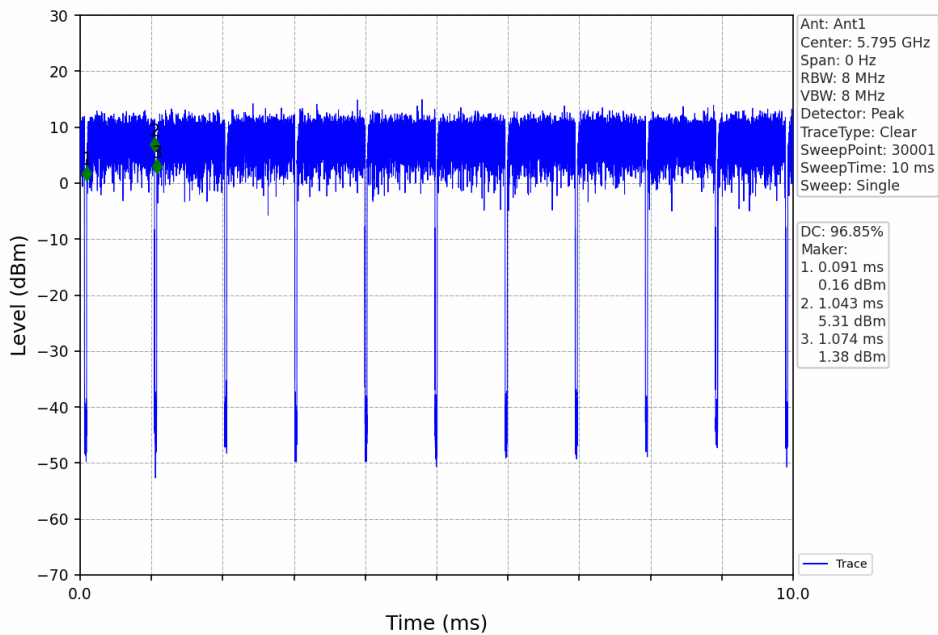
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### 802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



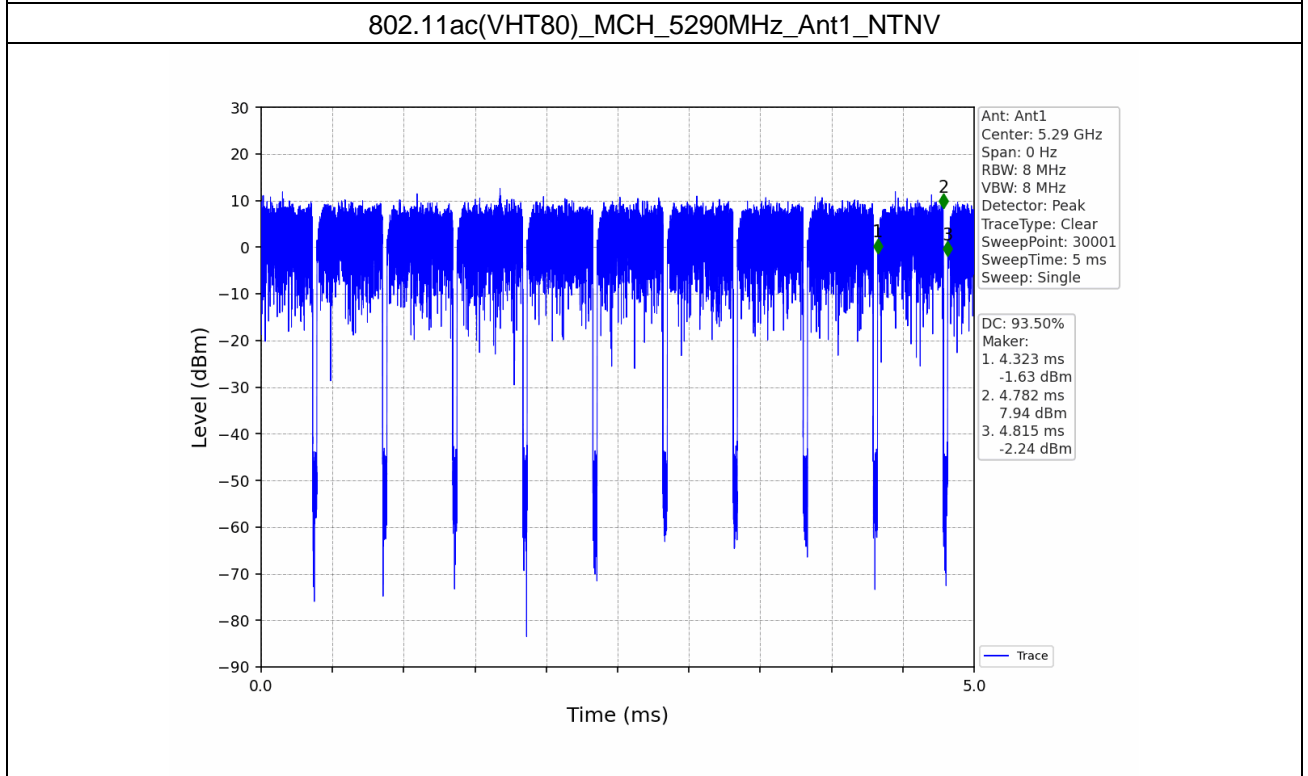
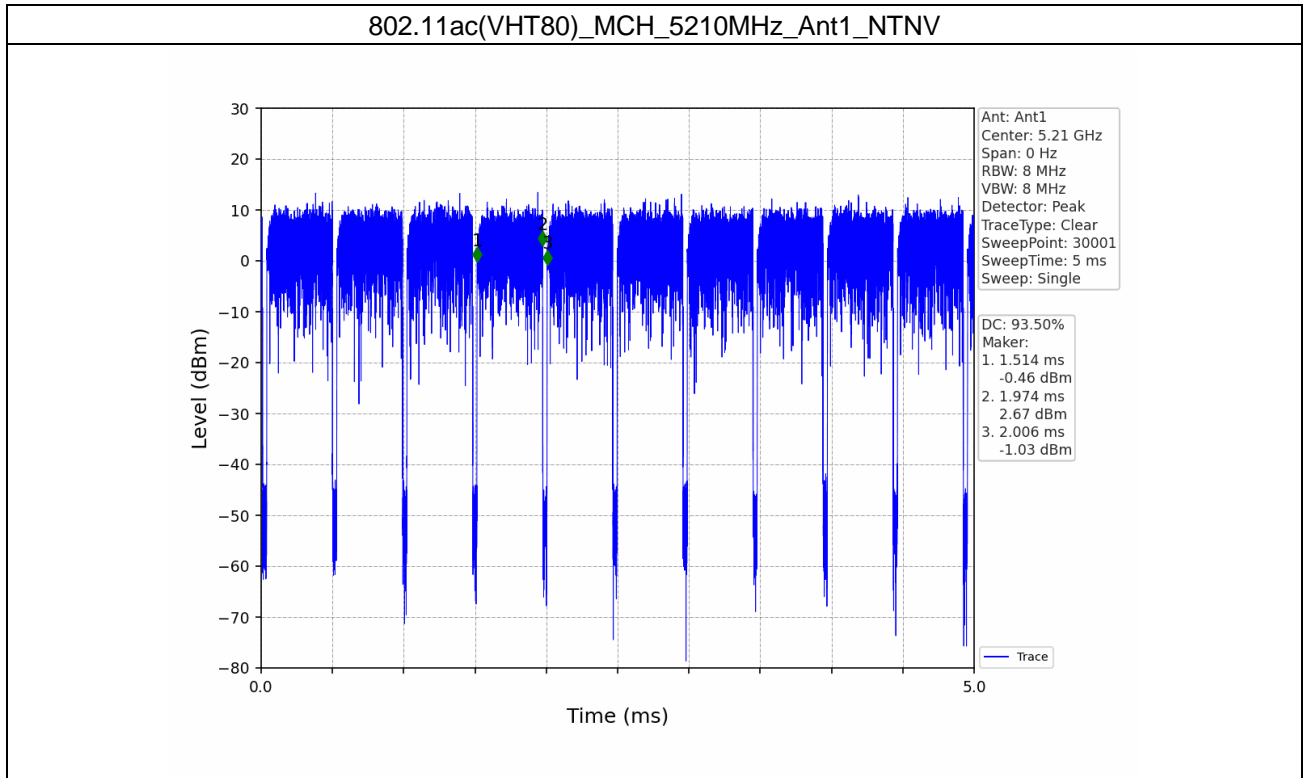
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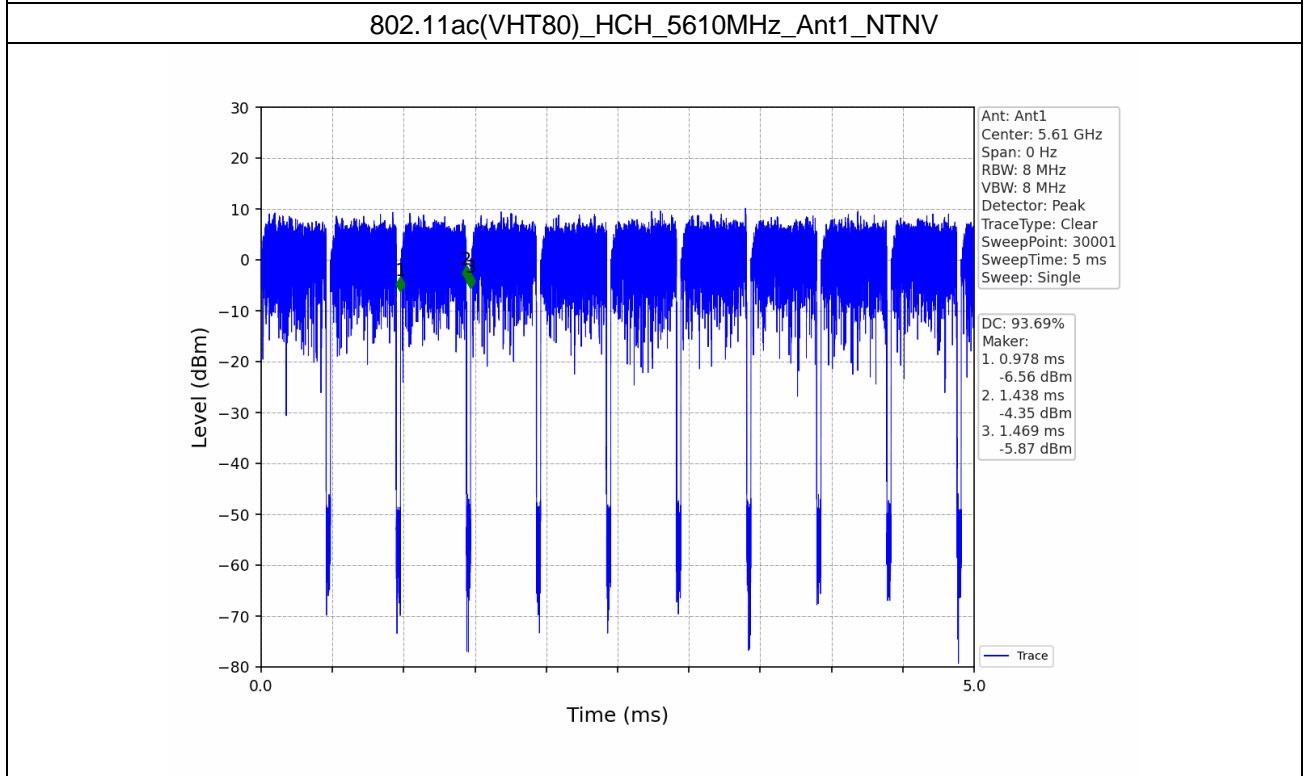
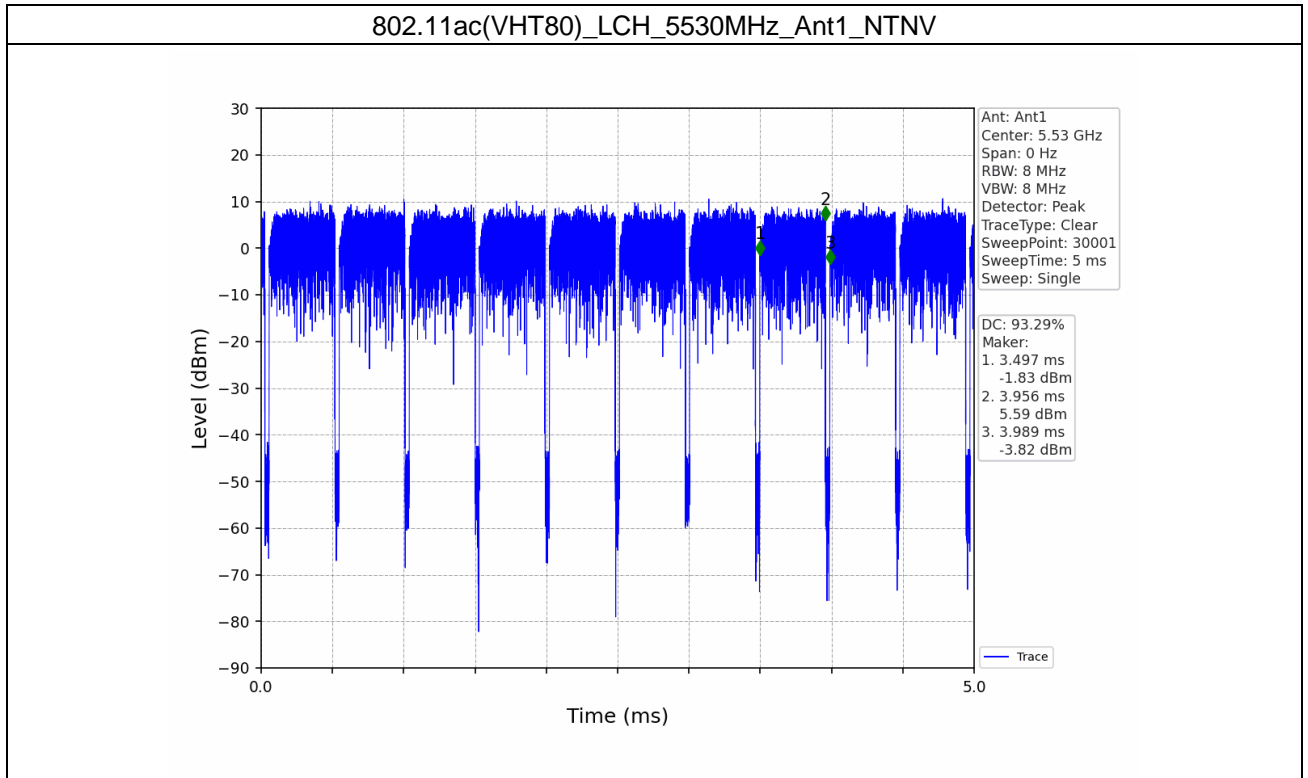
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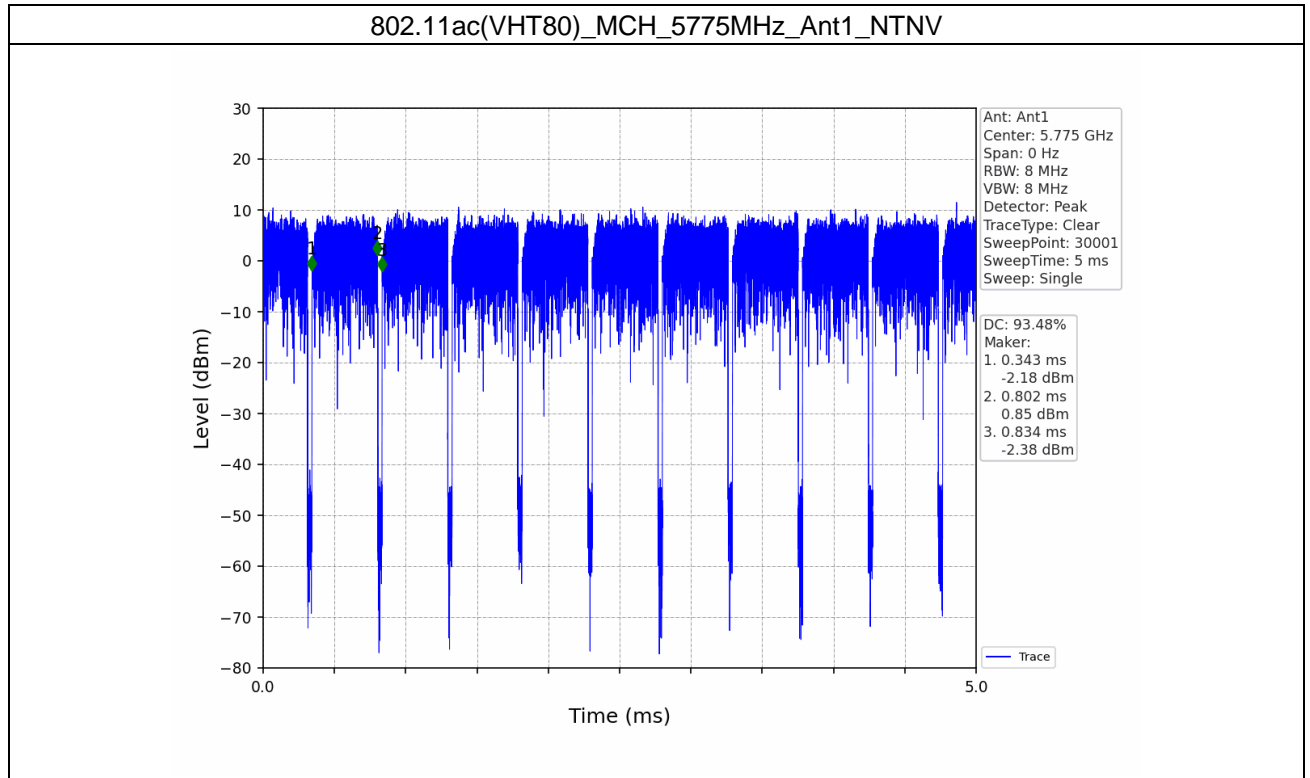
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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	20.614	Pass
		5200	1	20.838	Pass
		5240	1	20.497	Pass
		5260	1	19.577	Pass
		5300	1	20.367	Pass
		5320	1	20.338	Pass
		5500	1	19.999	Pass
		5580	1	20.327	Pass
		5700	1	19.998	Pass
		5745	1	21.644	Pass
		5785	1	21.948	Pass
		5825	1	23.182	Pass
802.11n (HT20)	SISO	5180	1	20.491	Pass
		5200	1	20.344	Pass
		5240	1	20.509	Pass
		5260	1	21.925	Pass
		5300	1	22.906	Pass
		5320	1	23.212	Pass
		5500	1	19.924	Pass
		5580	1	19.770	Pass
		5700	1	19.803	Pass
		5745	1	21.941	Pass
		5785	1	21.385	Pass
		5825	1	22.422	Pass
802.11n (HT40)	SISO	5190	1	40.524	Pass
		5230	1	42.540	Pass
		5270	1	44.243	Pass
		5310	1	46.393	Pass
		5510	1	39.466	Pass
		5550	1	38.049	Pass
		5670	1	37.683	Pass
		5755	1	40.763	Pass
5795	1	42.503	Pass		



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802.11ac (VHT20)	SISO	5180	1	20.099	Pass
		5200	1	20.039	Pass
		5240	1	20.815	Pass
		5260	1	20.883	Pass
		5300	1	22.452	Pass
		5320	1	23.030	Pass
		5500	1	20.074	Pass
		5580	1	19.973	Pass
		5700	1	19.846	Pass
		5745	1	22.001	Pass
		5785	1	20.874	Pass
		5825	1	22.194	Pass
802.11ac (VHT40)	SISO	5190	1	41.415	Pass
		5230	1	40.668	Pass
		5270	1	43.062	Pass
		5310	1	45.195	Pass
		5510	1	38.448	Pass
		5550	1	38.856	Pass
		5670	1	38.100	Pass
		5755	1	44.460	Pass
		5795	1	45.541	Pass
802.11ac (VHT80)	SISO	5210	1	83.091	Pass
		5290	1	88.890	Pass
		5530	1	78.265	Pass
		5610	1	77.795	Pass
		5775	1	87.132	Pass

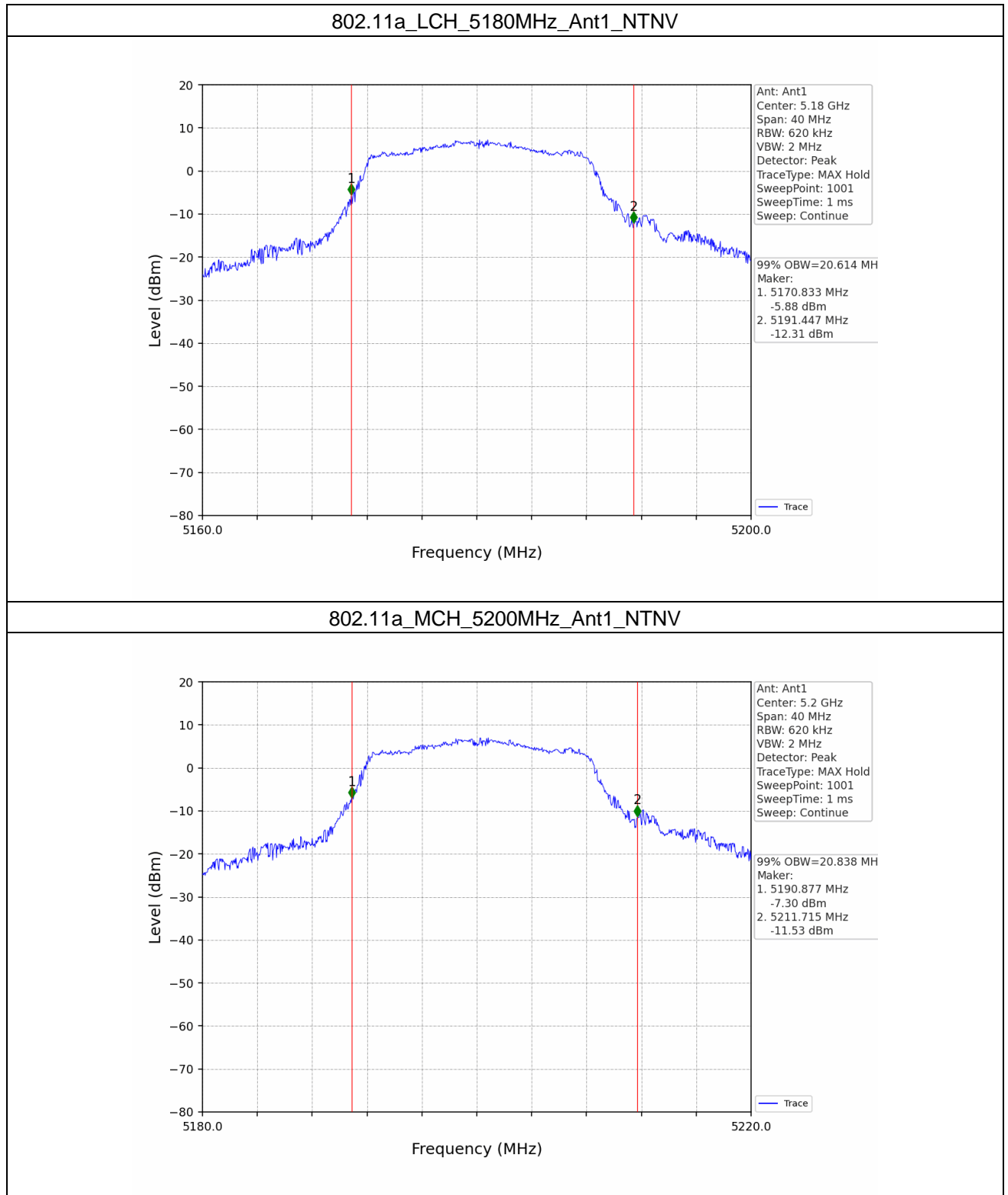


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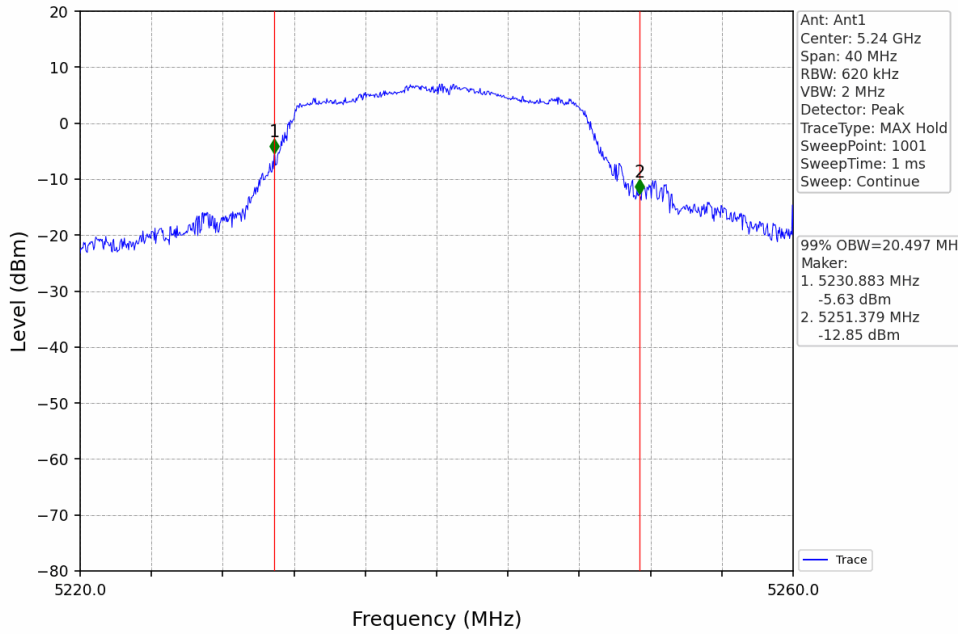
### 2.1.2 Test Graph



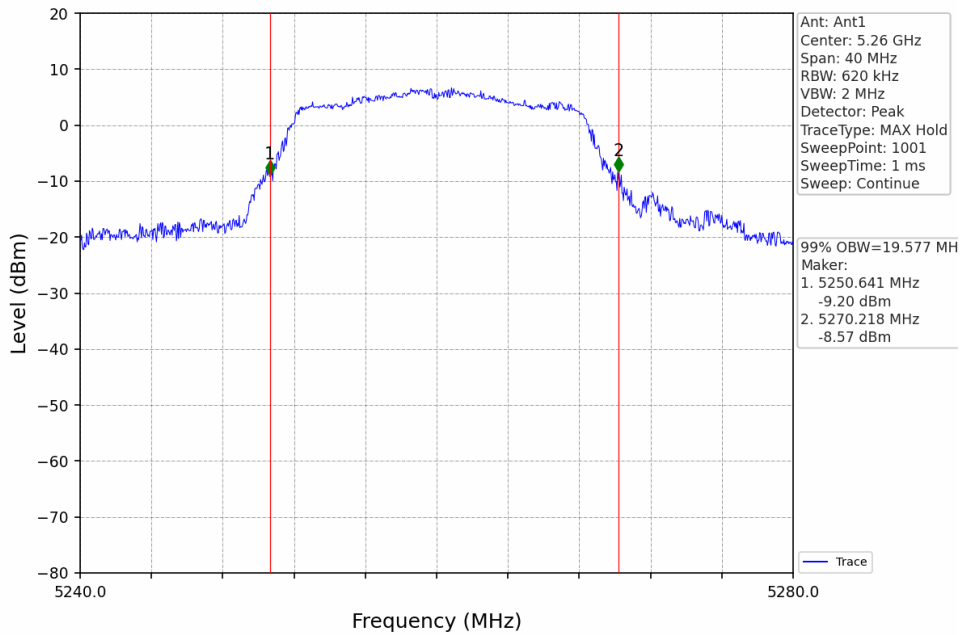
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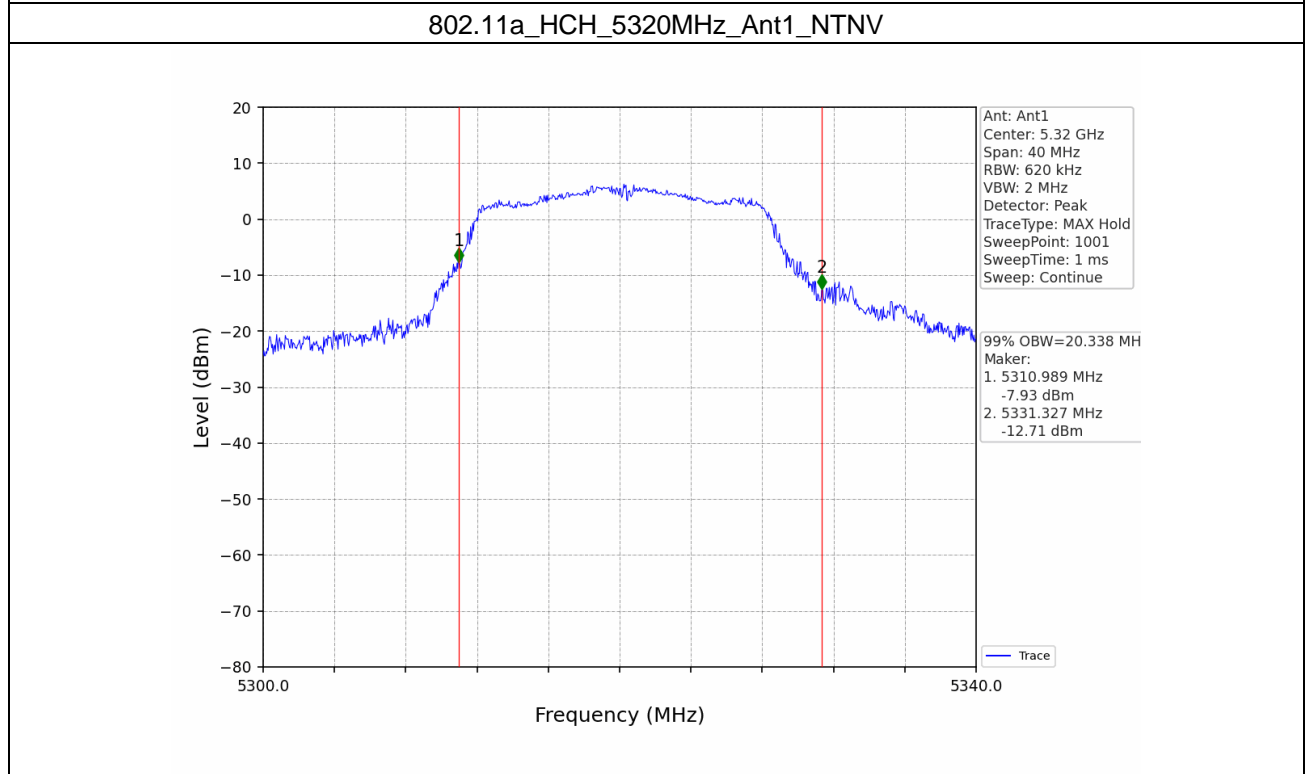
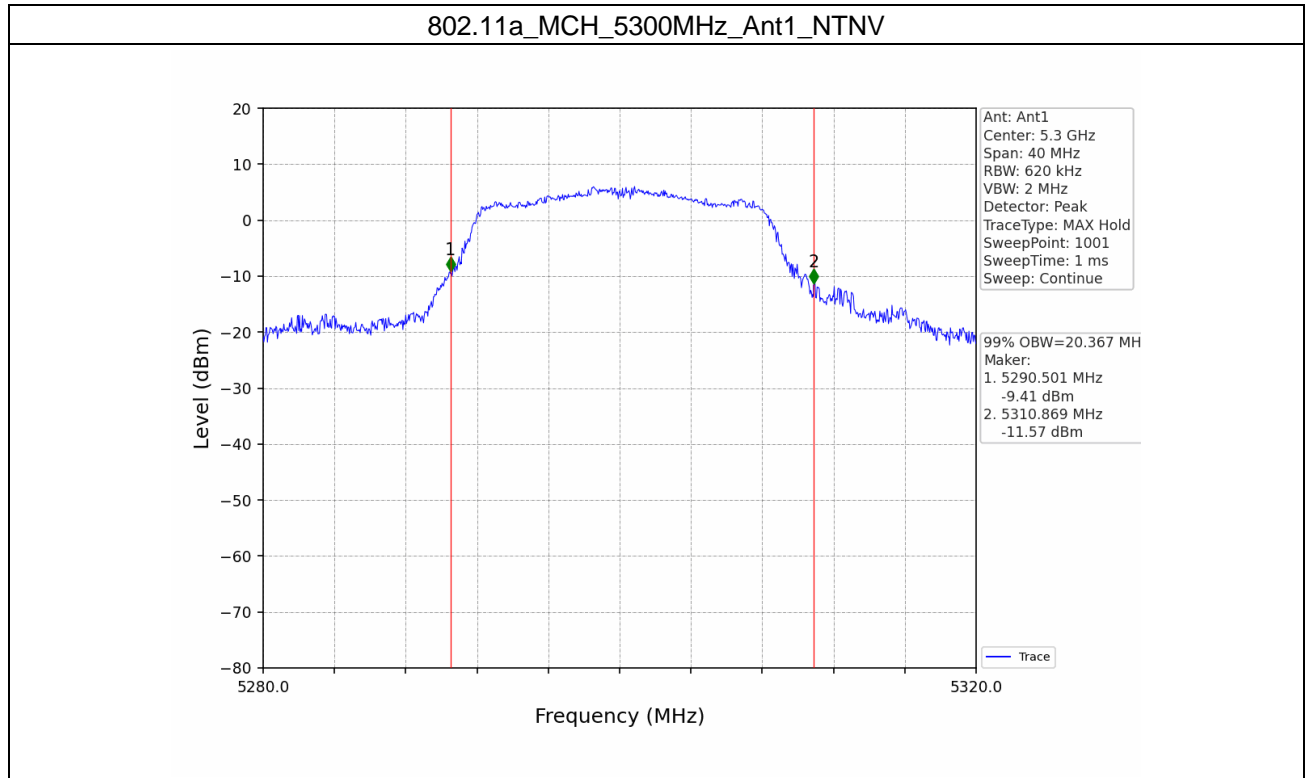
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_LCH\_5260MHz\_Ant1\_NTNV



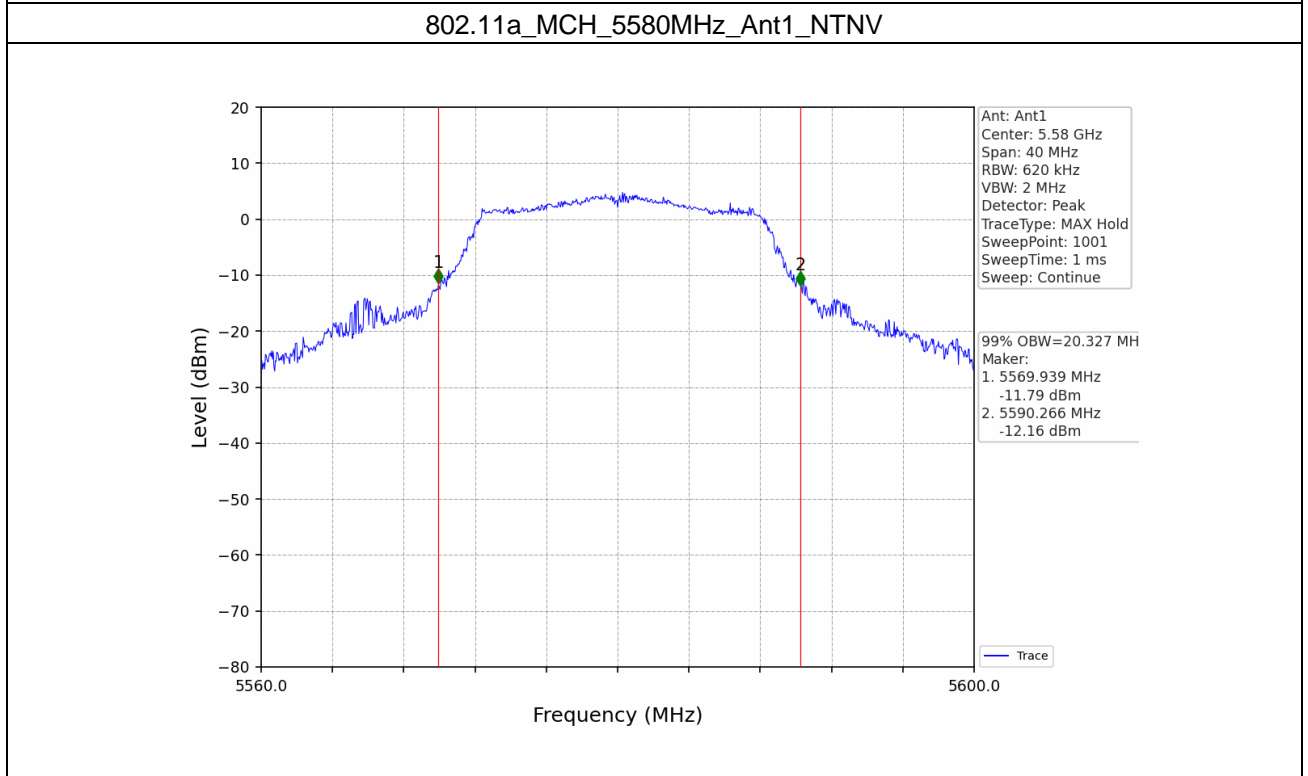
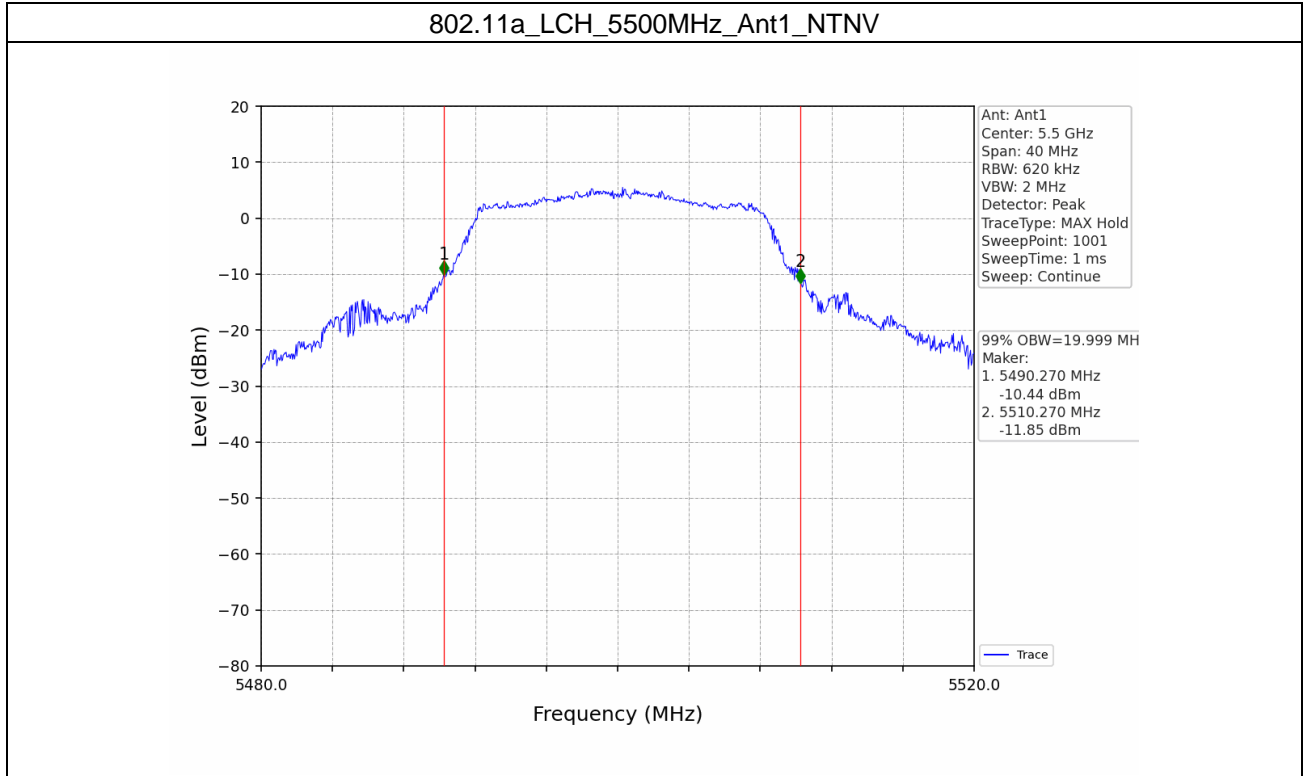
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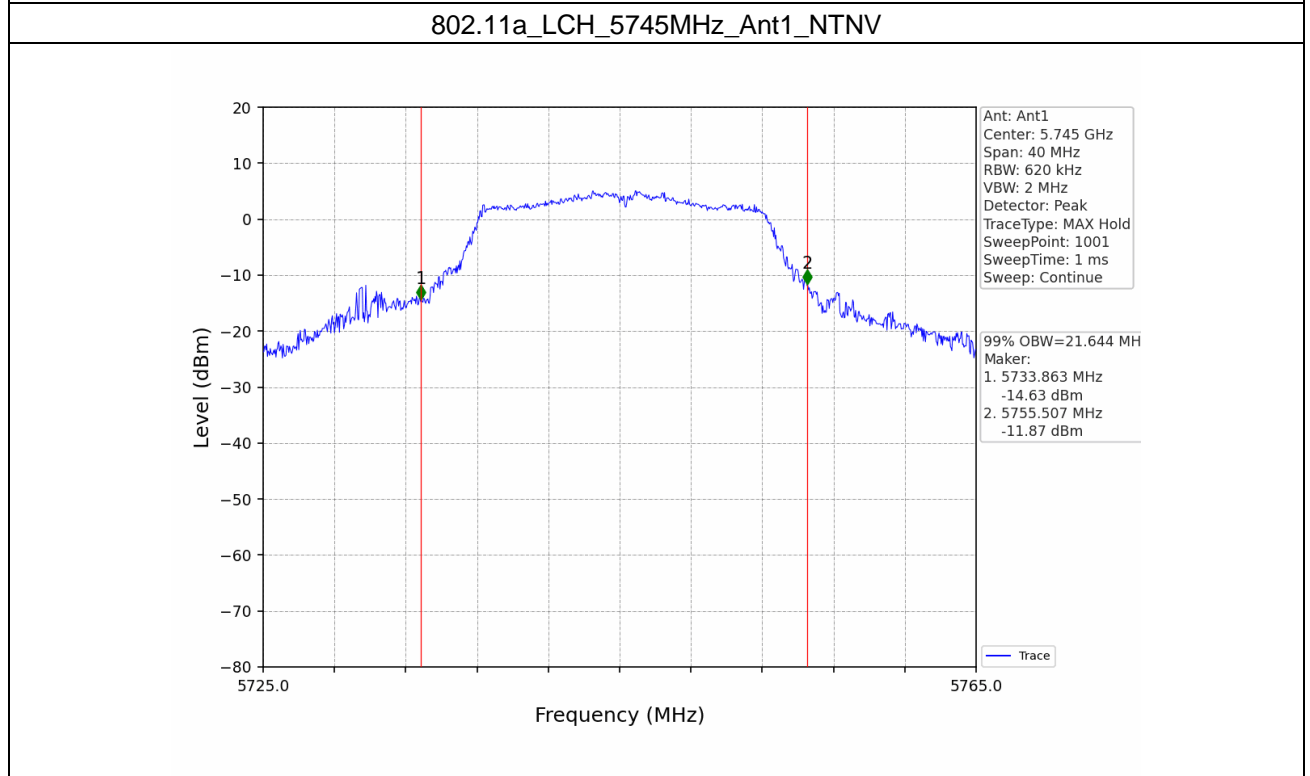
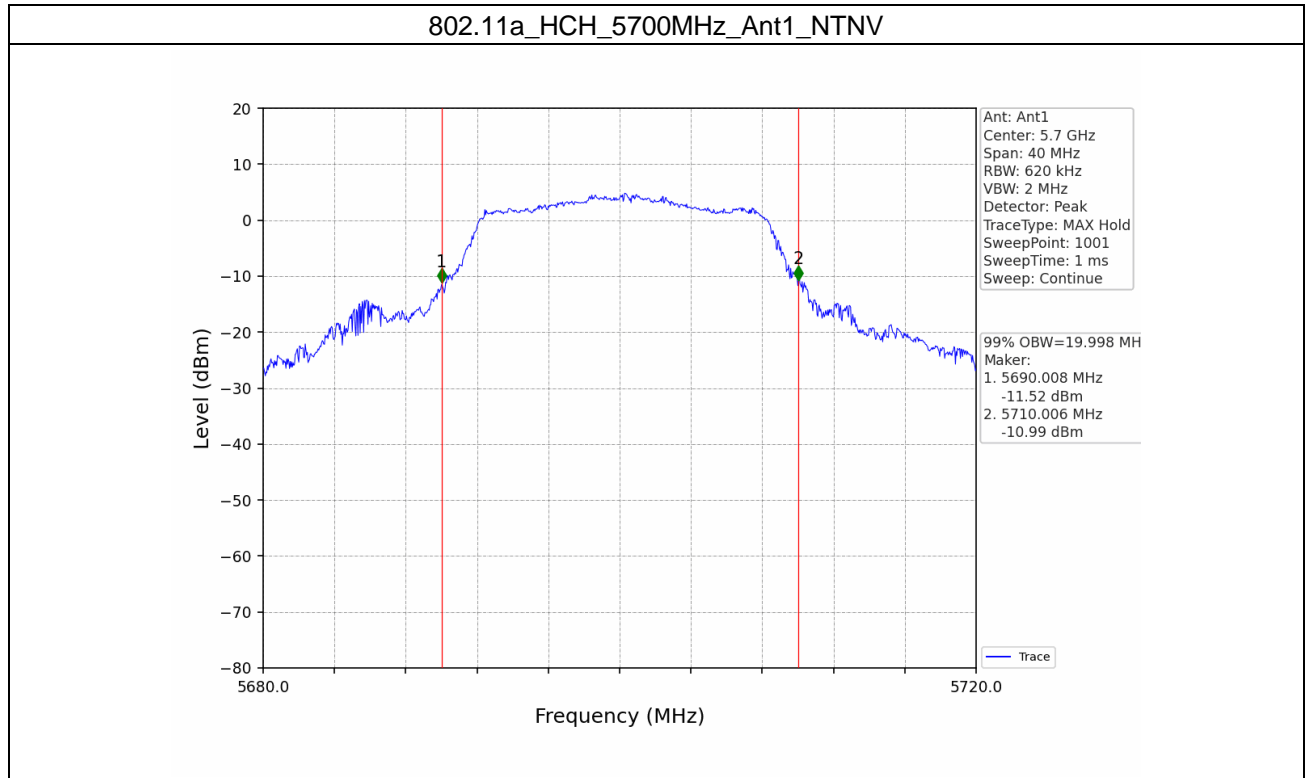
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