

Appendix D for SHCR212010005404-5G WIFI

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	1.040	1.238	84.01	0.76	0.04
		5200	1.040	1.238	84.01	0.76	0.03
		5240	1.039	1.238	83.93	0.76	0.04
		5745	1.040	1.238	84.01	0.76	0.01
		5785	1.040	1.238	84.01	0.76	0.04
		5825	1.040	1.239	83.94	0.76	0.03
802.11n (HT20)	SISO	5180	0.975	1.174	83.05	0.81	0.03
		5200	0.976	1.174	83.13	0.80	0.01
		5240	0.976	1.174	83.13	0.80	0.03
		5745	0.976	1.174	83.13	0.80	0.01
		5785	0.976	1.174	83.13	0.80	0.03
		5825	0.976	1.175	83.06	0.81	0.03
802.11n (HT40)	SISO	5190	0.488	0.687	71.03	1.49	0.04
		5230	0.488	0.687	71.03	1.49	0.03
		5755	0.487	0.687	70.89	1.49	0.01
		5795	0.488	0.688	70.93	1.49	0.04
802.11ac (VHT20)	SISO	5180	0.976	1.174	83.13	0.80	0.01
		5200	0.976	1.175	83.06	0.81	0.03
		5240	0.976	1.174	83.13	0.80	0.03
		5745	0.976	1.174	83.13	0.80	0.01
		5785	0.976	1.174	83.13	0.80	0.03
		5825	0.976	1.174	83.13	0.80	0.00
802.11ac (VHT40)	SISO	5190	0.492	0.691	71.20	1.48	0.02
		5230	0.492	0.691	71.20	1.48	0.02
		5755	0.492	0.691	71.20	1.48	0.03
		5795	0.492	0.692	71.10	1.48	0.03
802.11ac (VHT80)	SISO	5210	0.243	0.448	54.24	2.66	0.06
		5775	0.240	0.448	53.57	2.71	0.07

1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



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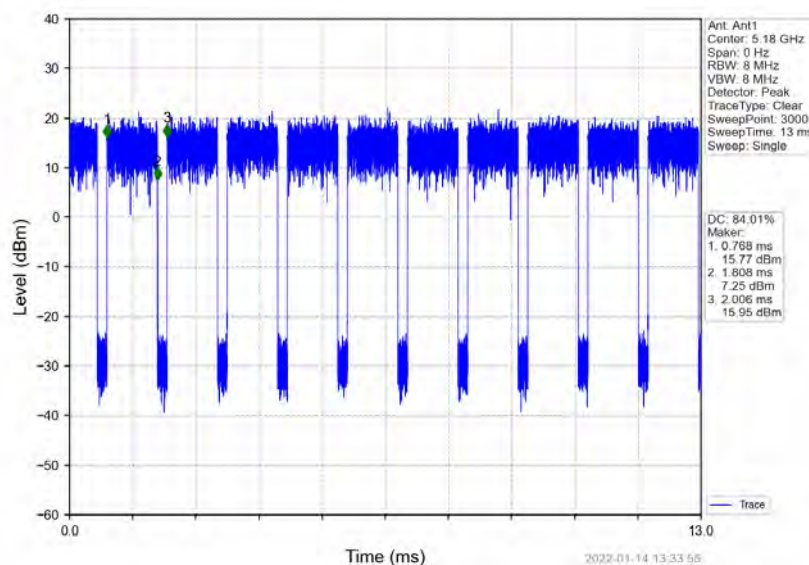
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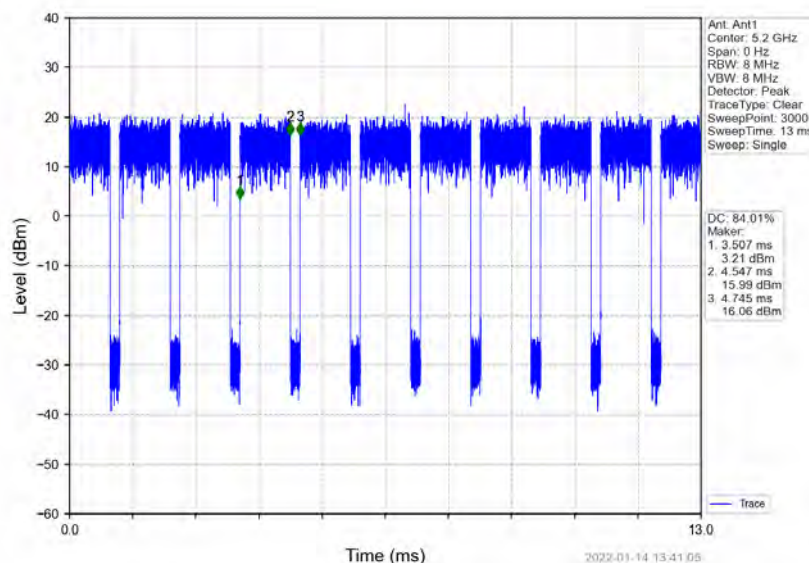
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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant1_NTNV



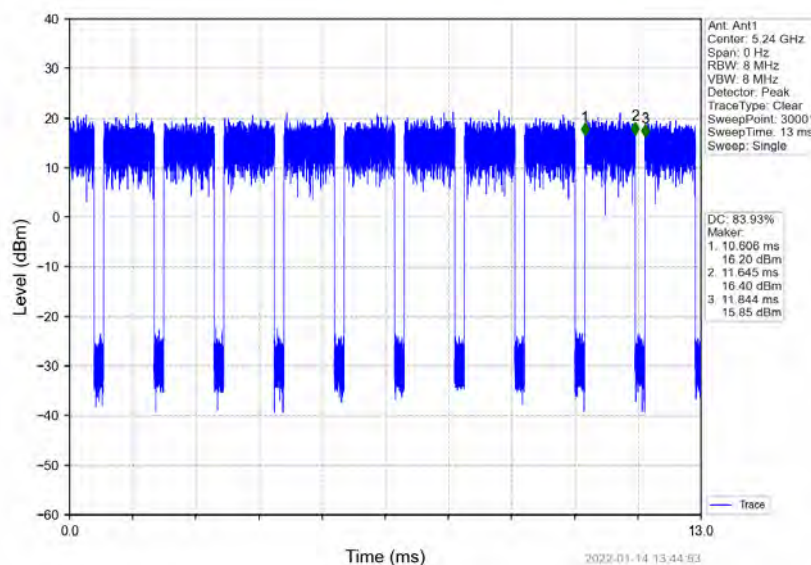
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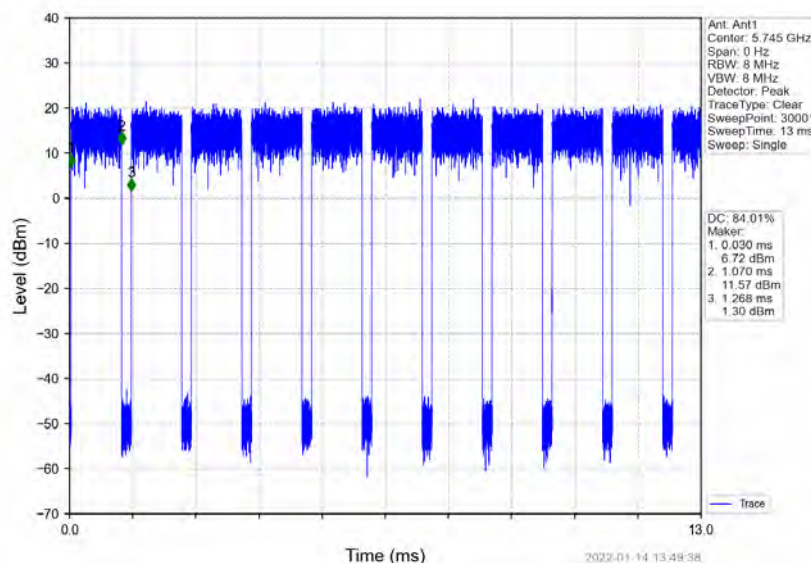
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802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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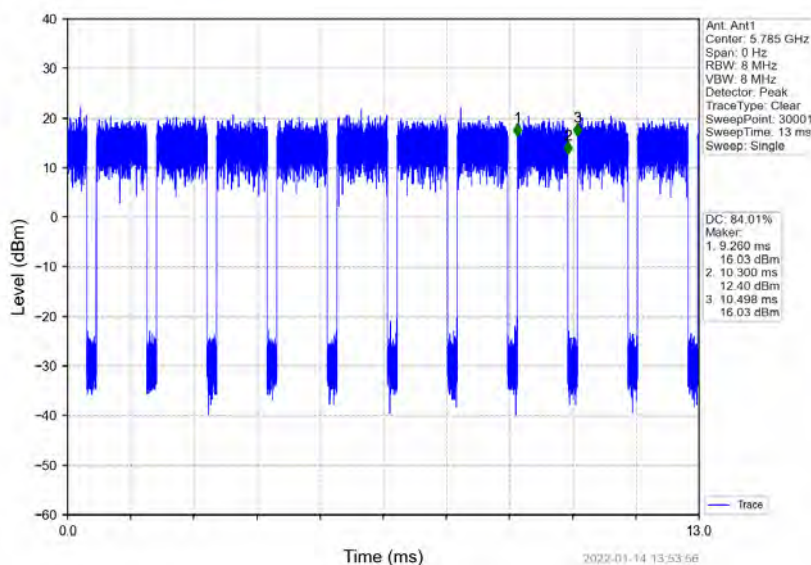
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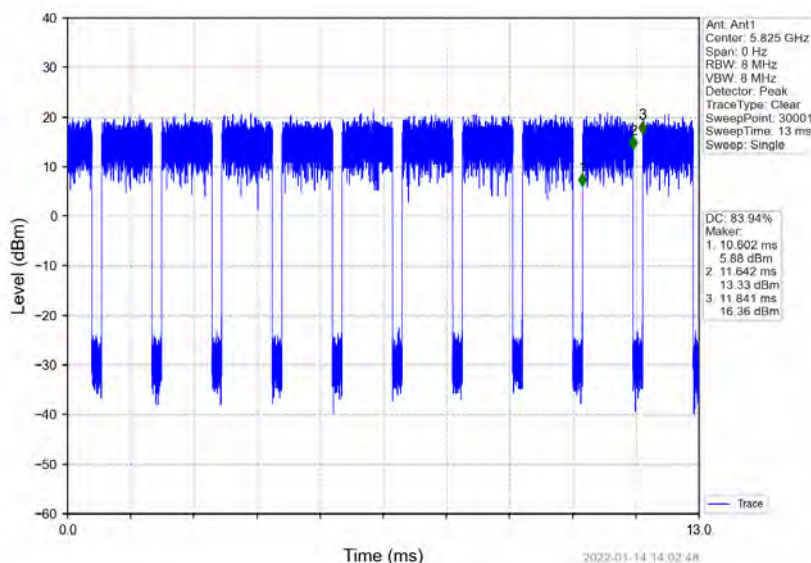
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

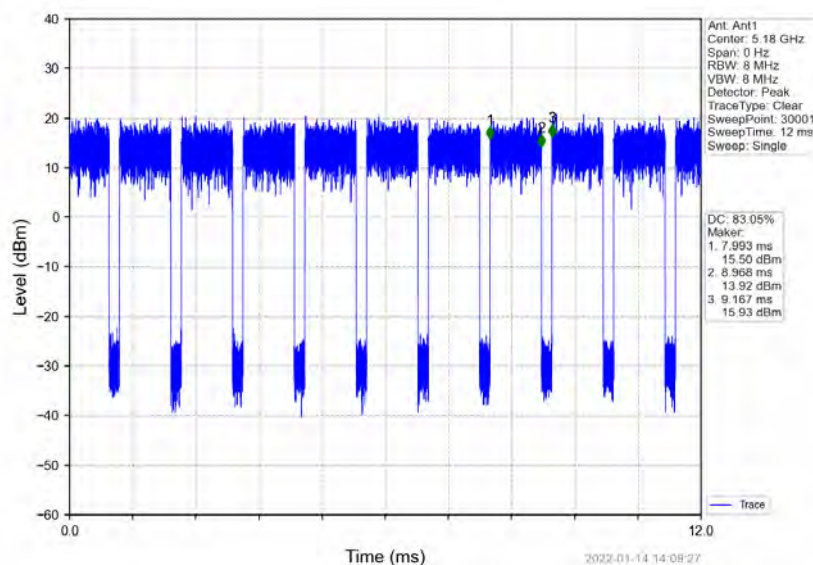


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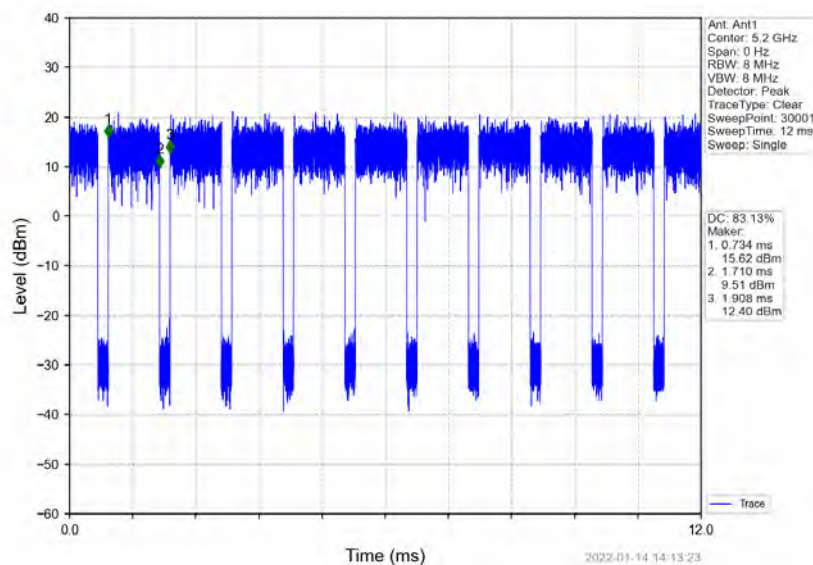
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802.11n(HT20) MCH 5200MHz Ant1 NTNv



802.11n(HT20) HCH 5240MHz Ant1 NTNv

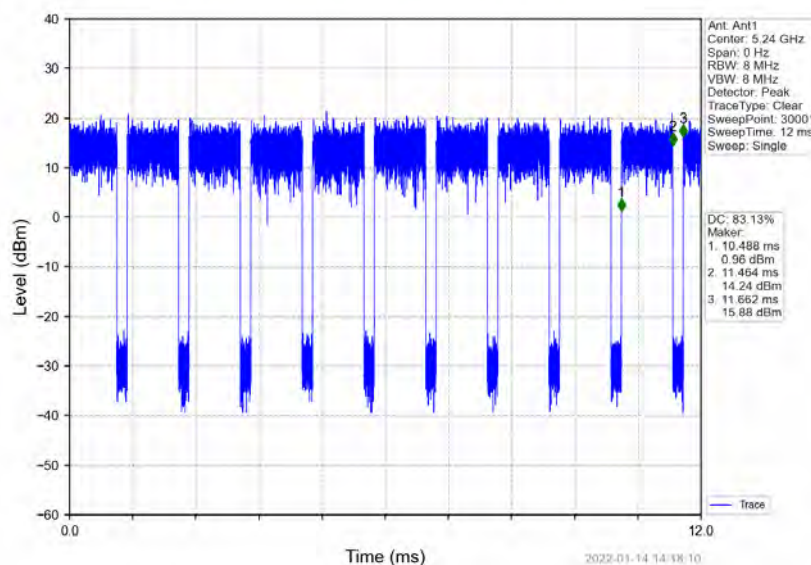


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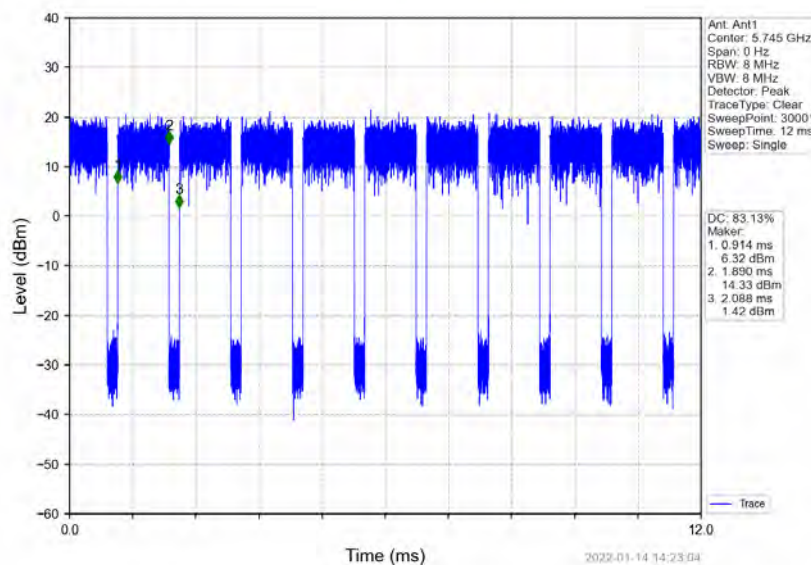
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802.11n(HT20) LCH 5745MHz Ant1 NTNV



802.11n(HT20) MCH 5785MHz Ant1 NTNV



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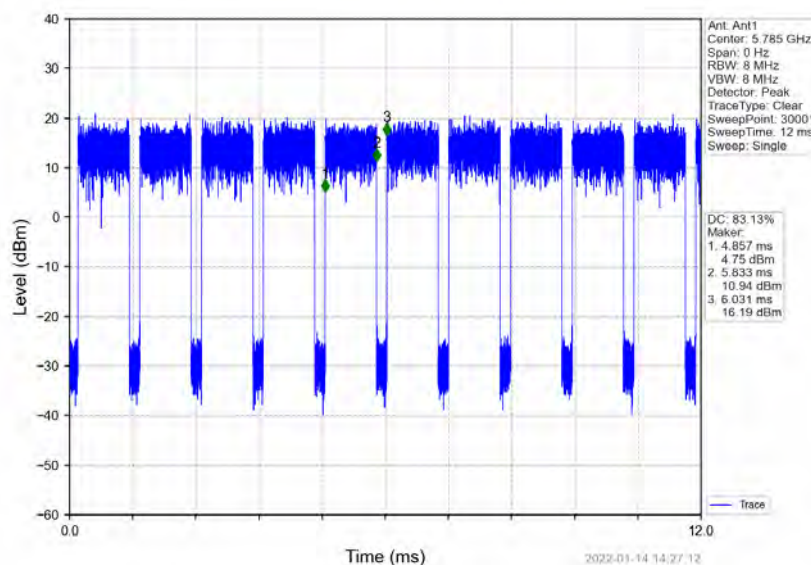
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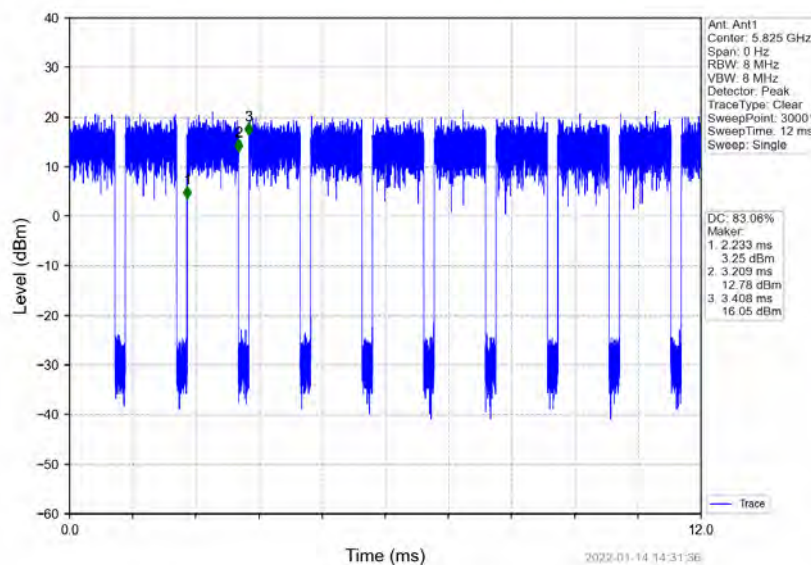
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802.11n(HT20) HCH 5825MHz Ant1 NTN



802.11n(HT40) LCH 5190MHz Ant1 NTN



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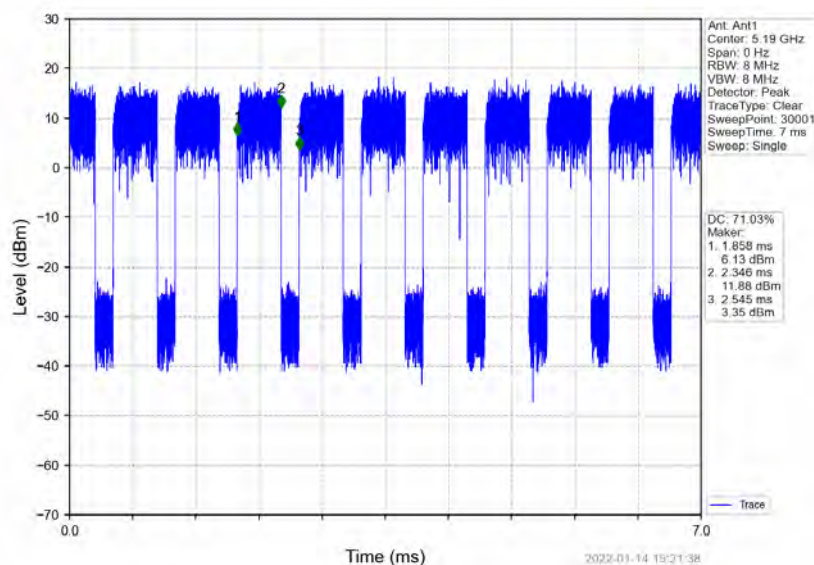
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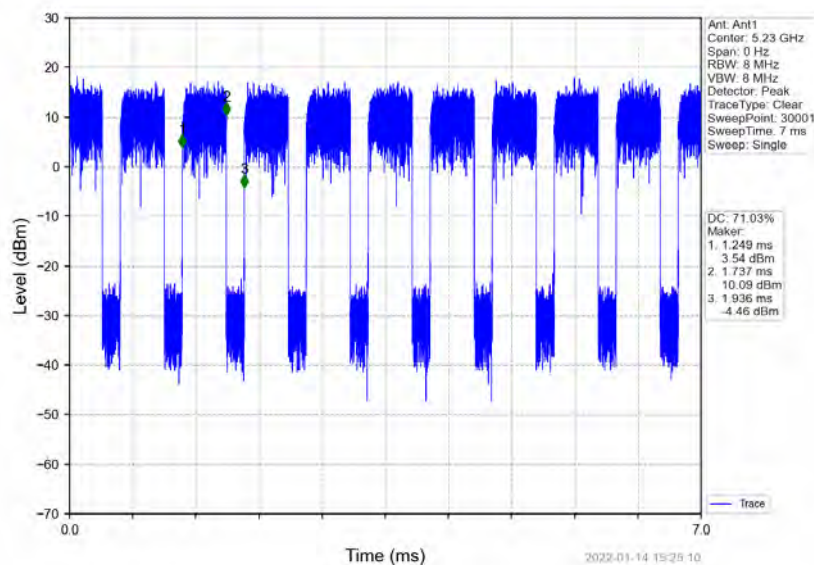
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802.11n(HT40) HCH 5230MHz Ant1 NTV



802.11n(HT40) LCH 5755MHz Ant1 NTV



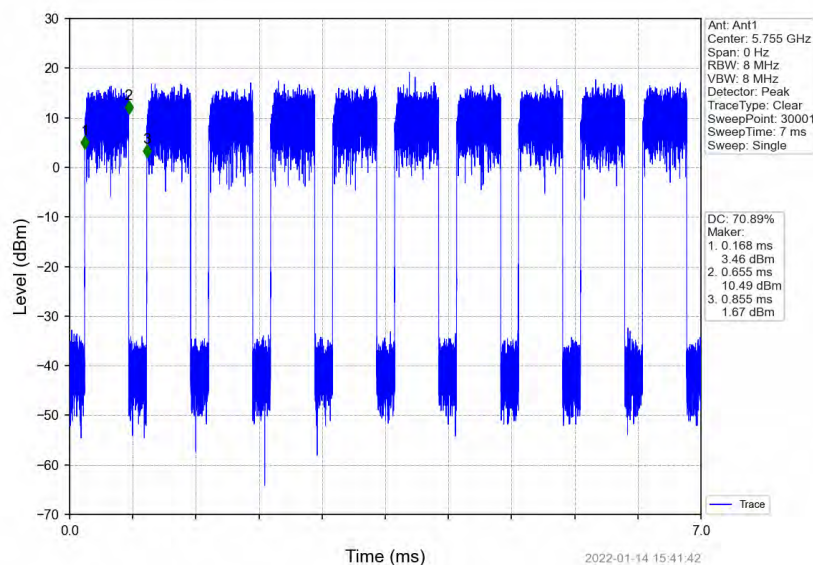
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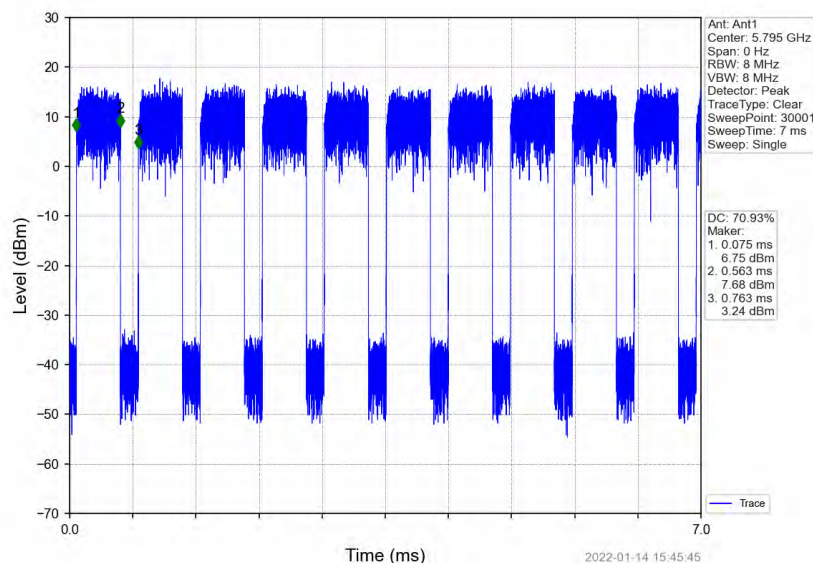
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802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT20) LCH 5180MHz Ant1 NTN

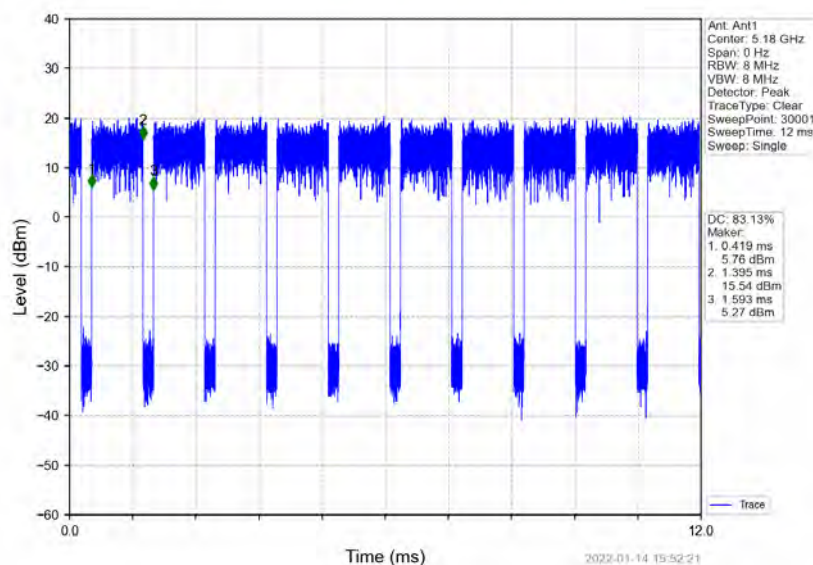


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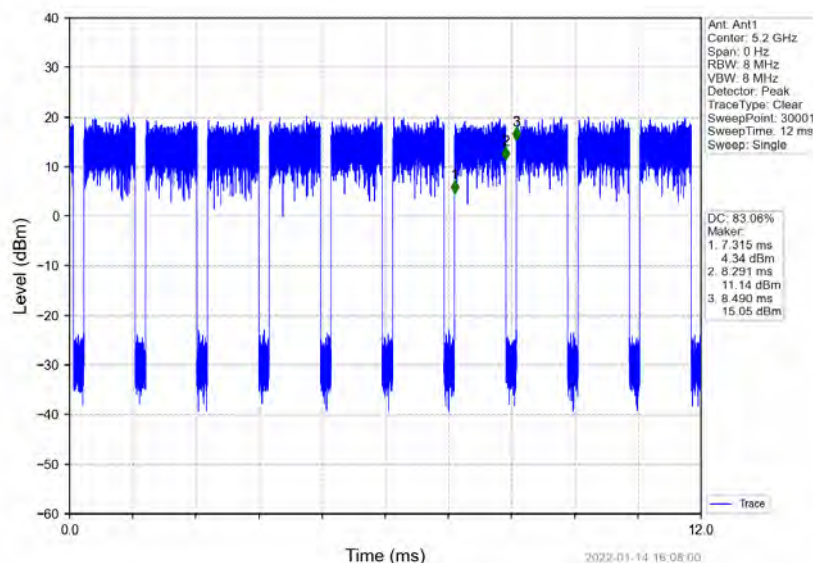
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802.11ac(VHT20) MCH 5200MHz Ant1 NTN



802.11ac(VHT20) HCH 5240MHz Ant1 NTN



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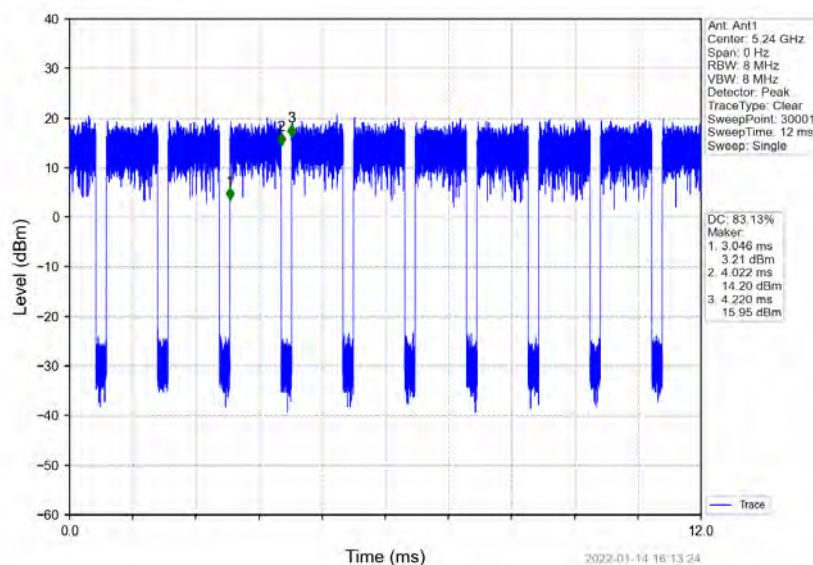
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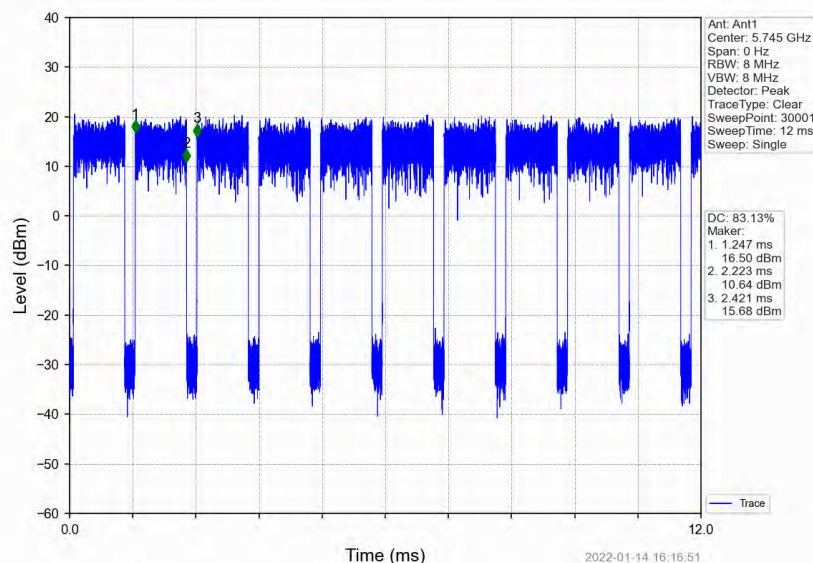
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802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) MCH 5785MHz Ant1 NTN

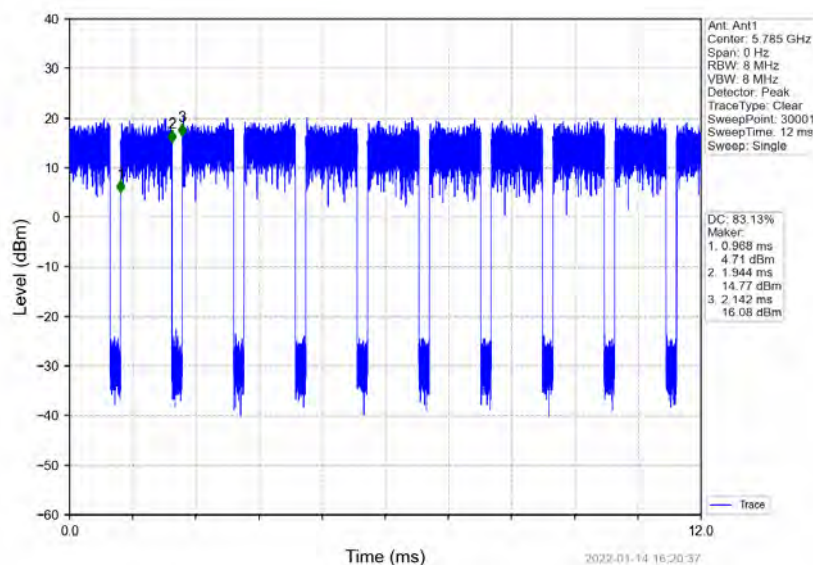


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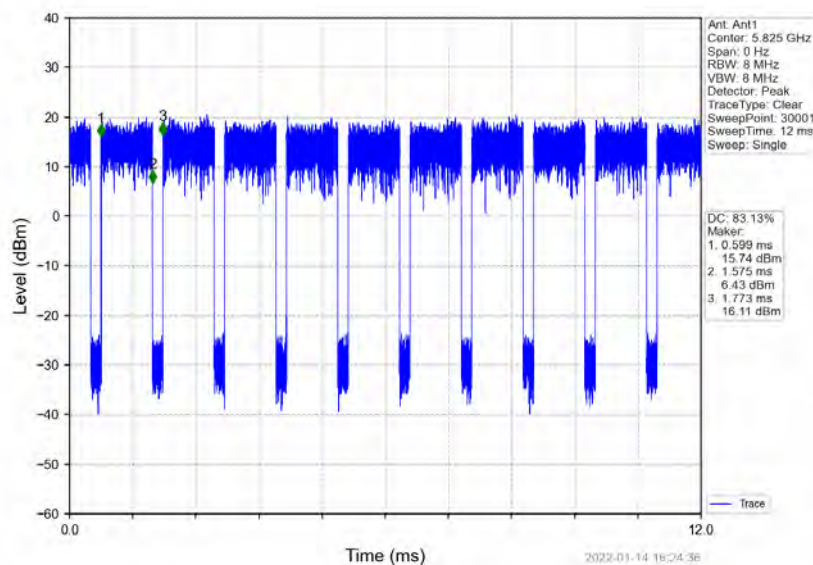
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

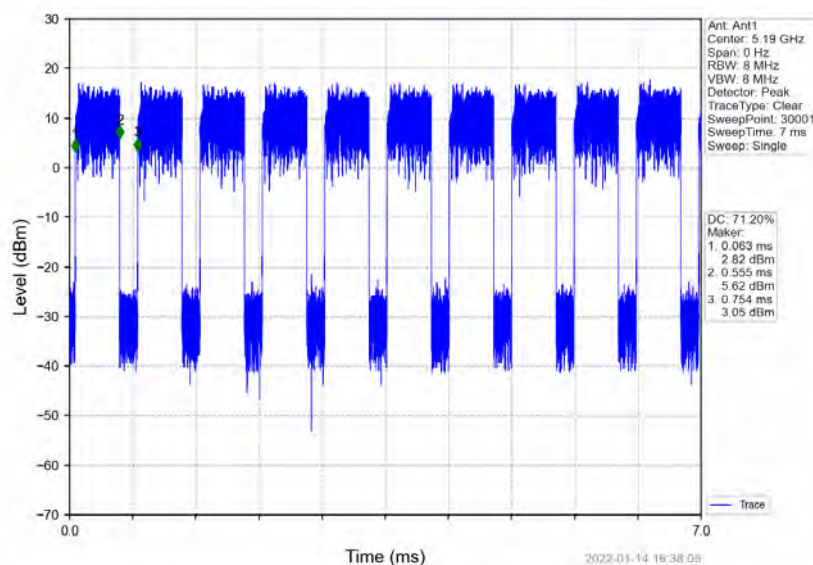


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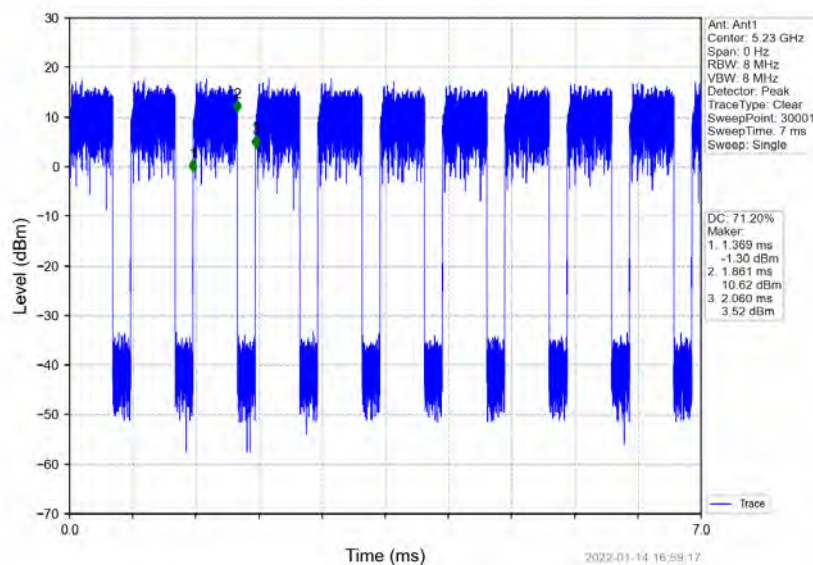
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802.11ac(VHT40) HCH 5230MHz Ant1 NTN



802.11ac(VHT40) LCH 5755MHz Ant1 NTN

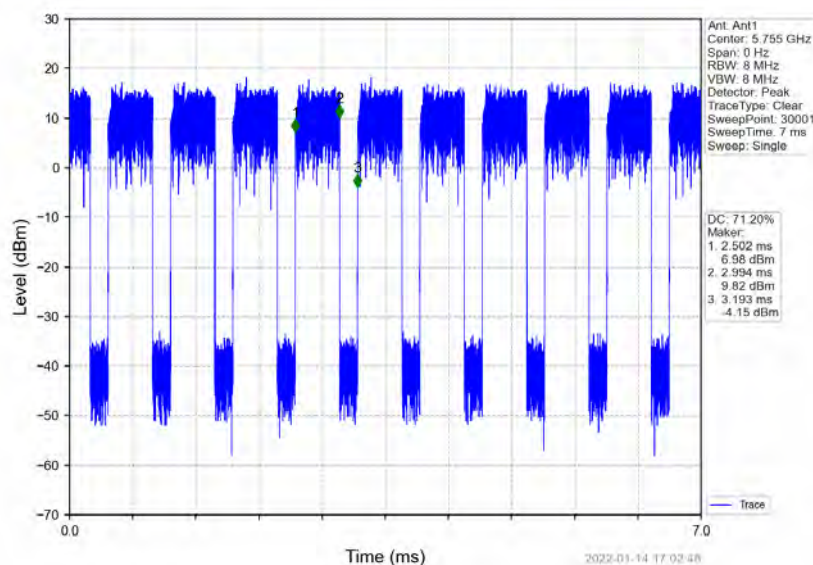


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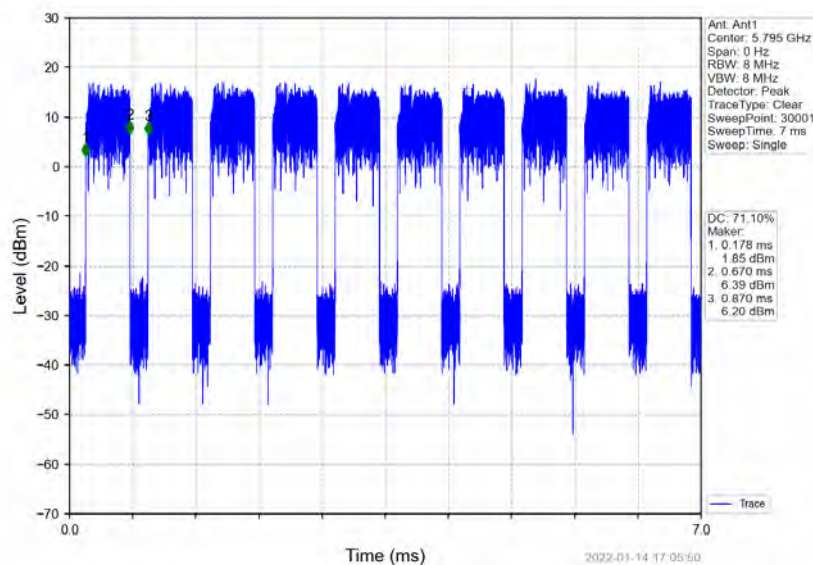
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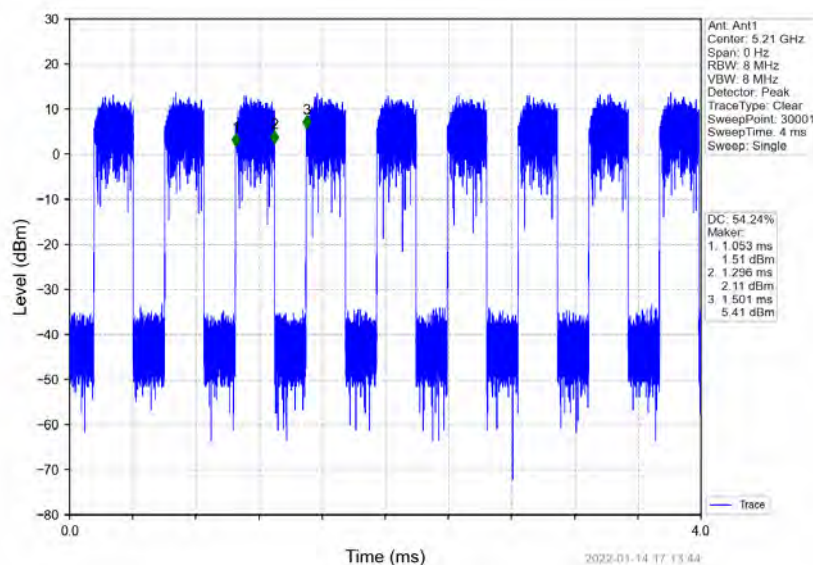


802.11ac(VHT40) HCH 5795MHz Ant1 NTN

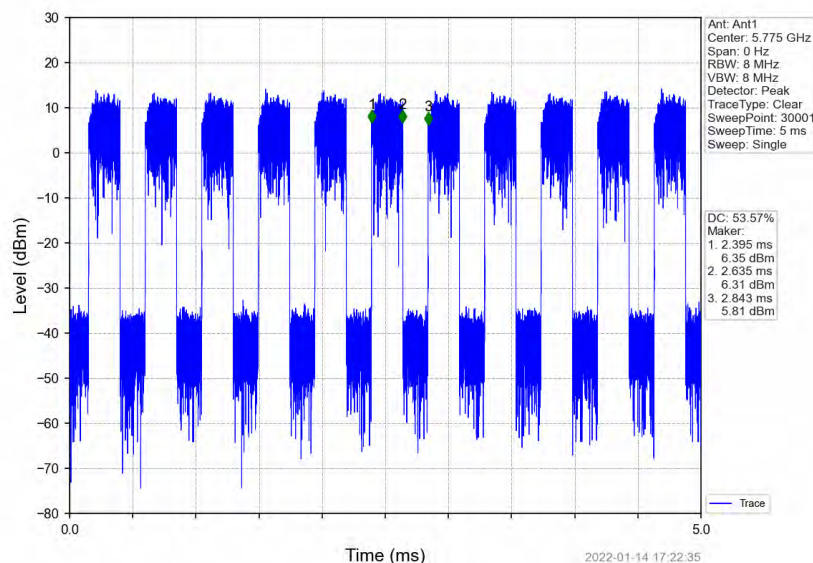


802.11ac(VHT80) MCH 5210MHz Ant1 NTN





802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Bandwidth

2.1 OBW

2.1.1 Test Result



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Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	18.178	Pass
		5200	1	18.125	Pass
		5240	1	18.038	Pass
		5745	1	18.310	Pass
		5785	1	18.254	Pass
		5825	1	18.357	Pass
802.11n (HT20)	SISO	5180	1	18.867	Pass
		5200	1	18.905	Pass
		5240	1	18.946	Pass
		5745	1	19.020	Pass
		5785	1	19.007	Pass
		5825	1	19.112	Pass
802.11n (HT40)	SISO	5190	1	36.915	Pass
		5230	1	36.882	Pass
		5755	1	36.976	Pass
		5795	1	37.112	Pass
802.11ac (VHT20)	SISO	5180	1	18.801	Pass
		5200	1	18.792	Pass
		5240	1	18.804	Pass
		5745	1	18.923	Pass
		5785	1	18.896	Pass
		5825	1	18.995	Pass
802.11ac (VHT40)	SISO	5190	1	36.979	Pass
		5230	1	36.991	Pass
		5755	1	37.091	Pass
		5795	1	37.028	Pass
802.11ac (VHT80)	SISO	5210	1	75.314	Pass
		5775	1	75.618	Pass

2.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV

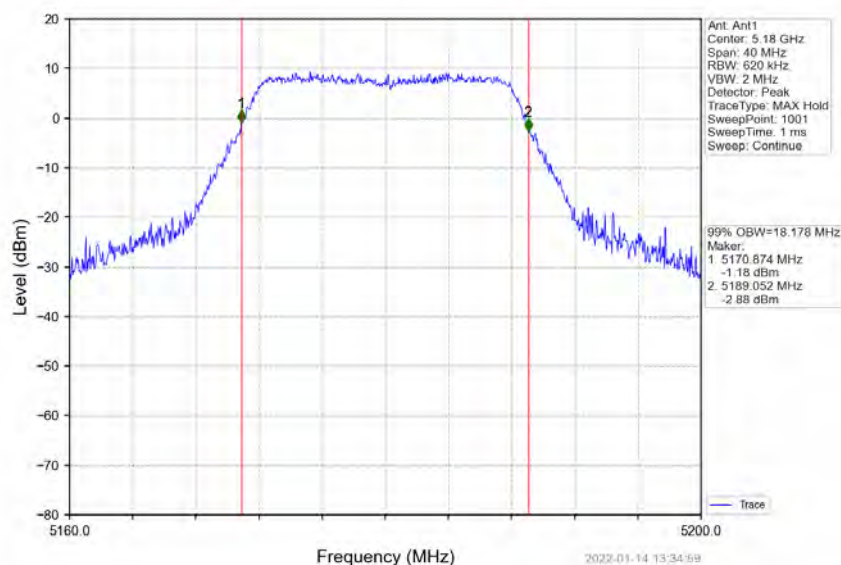


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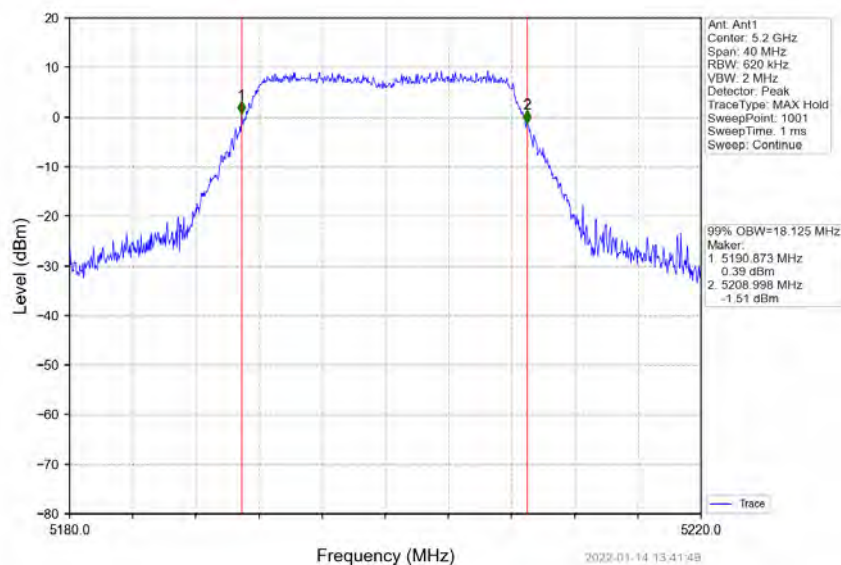
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802.11a_MCH_5200MHz_Ant1 NTNv



802.11a_HCH_5240MHz_Ant1 NTNv

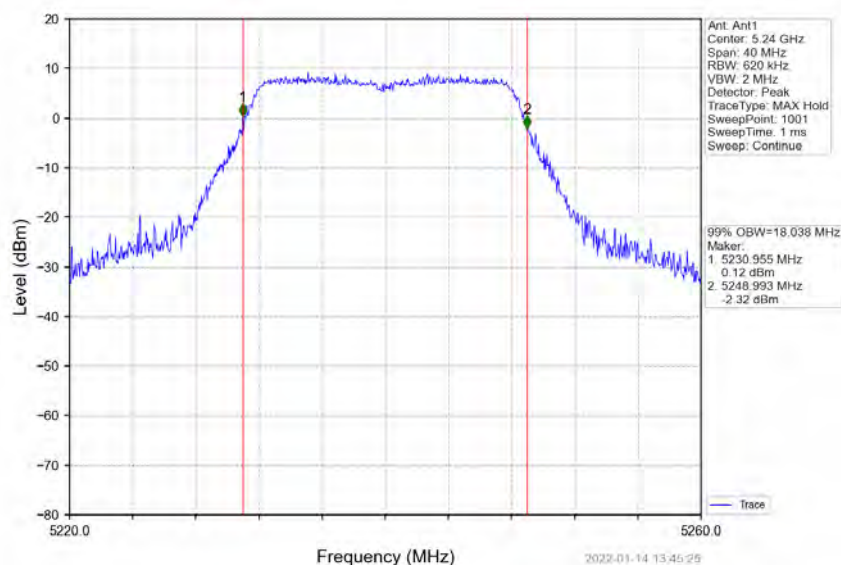


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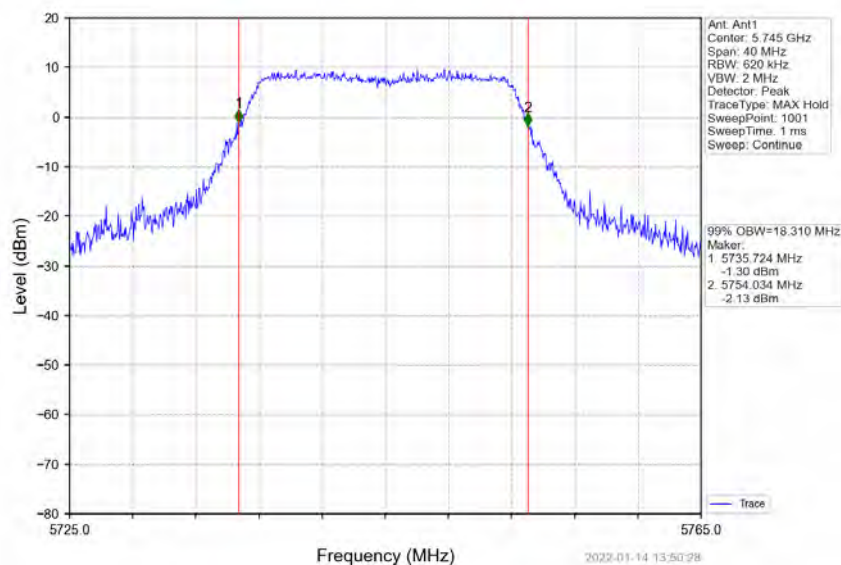
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802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV

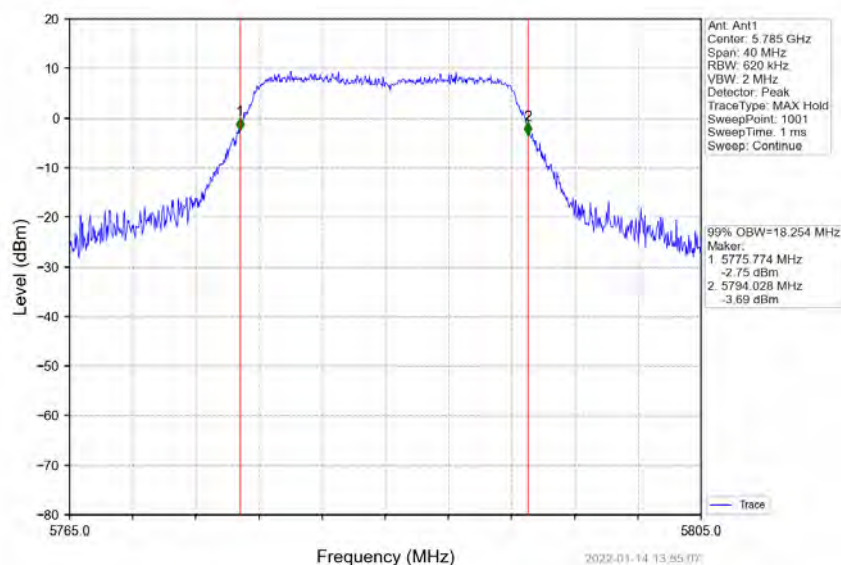


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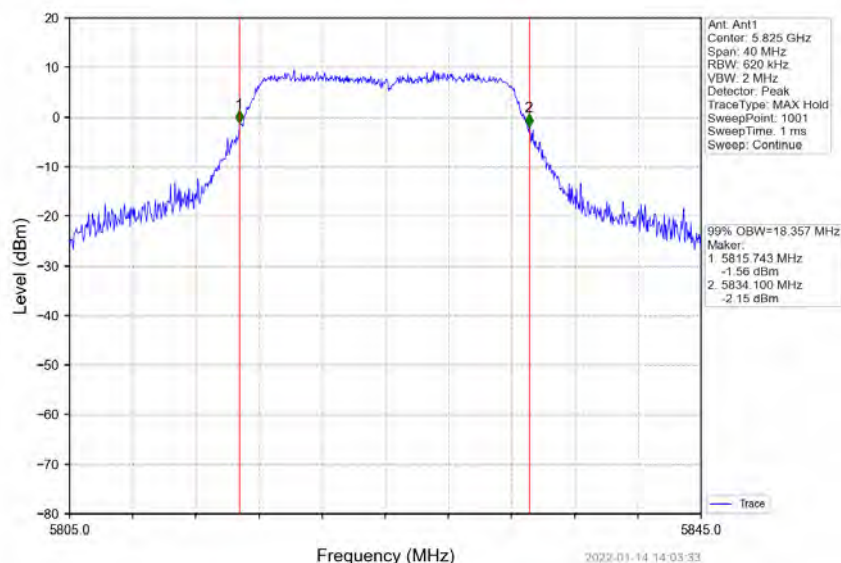
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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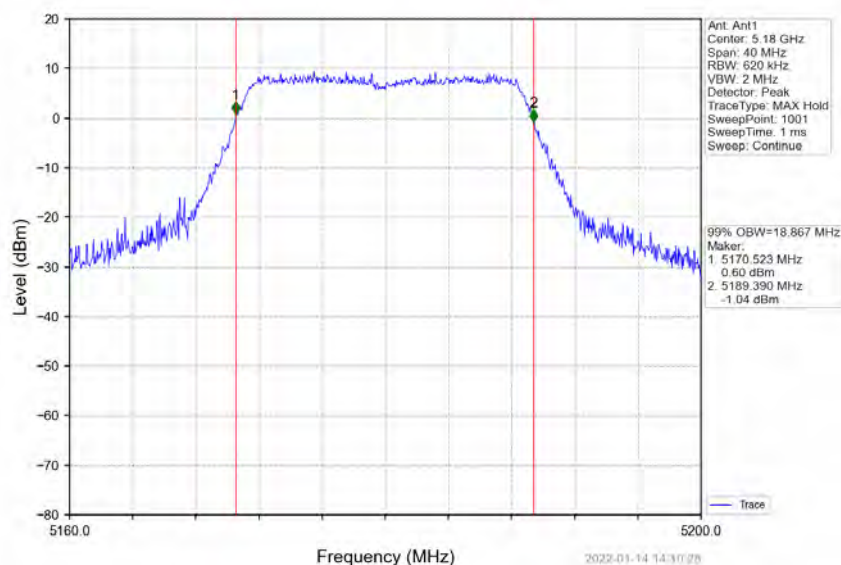
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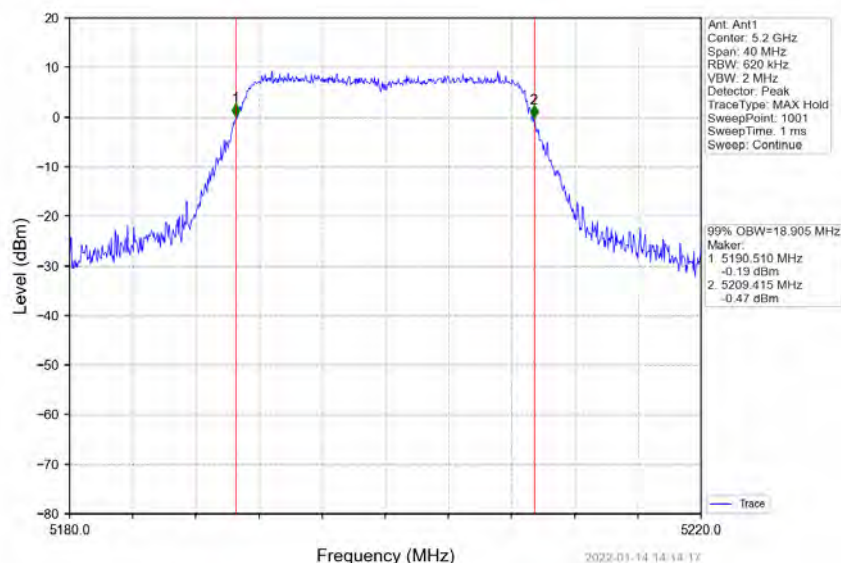
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802.11n(HT20) MCH 5200MHz Ant1 NTV



802.11n(HT20) HCH 5240MHz Ant1 NTV



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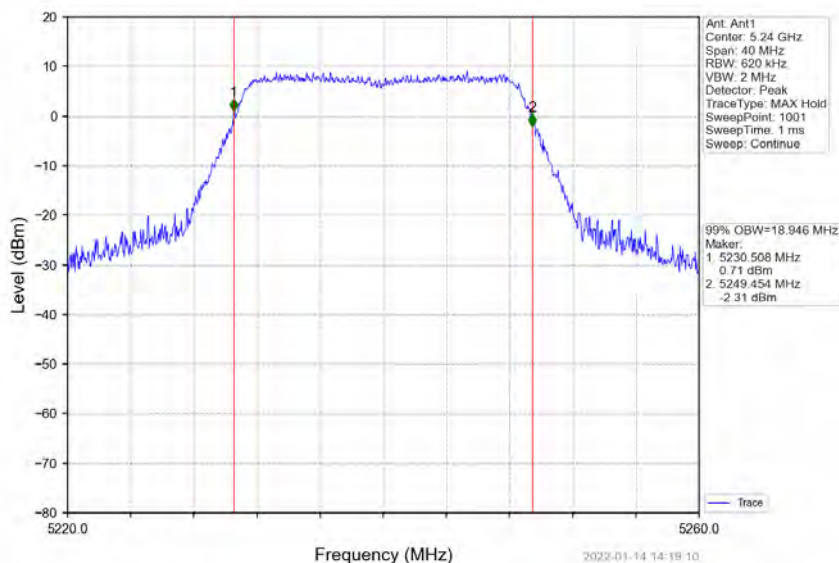
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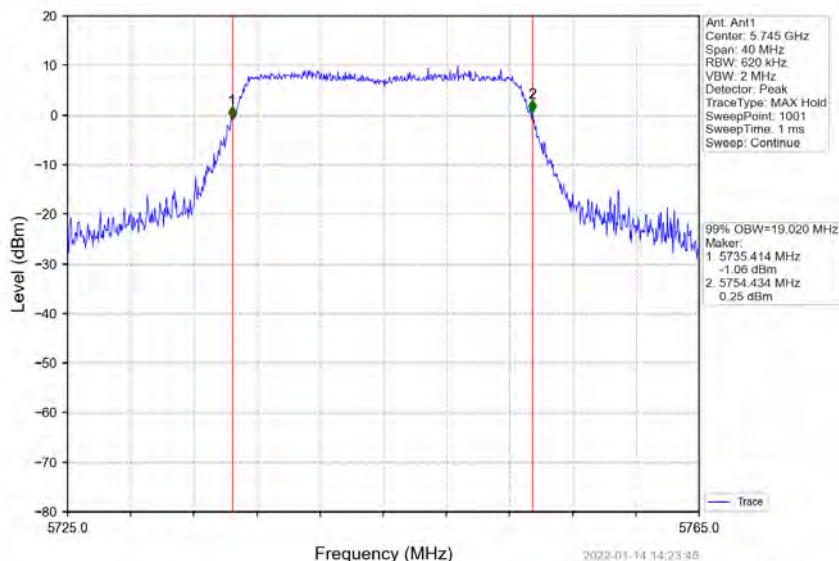
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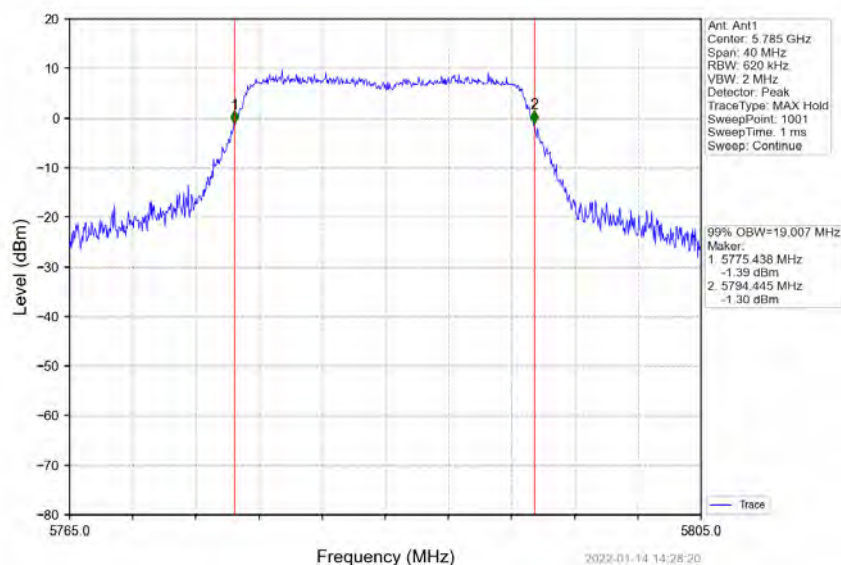


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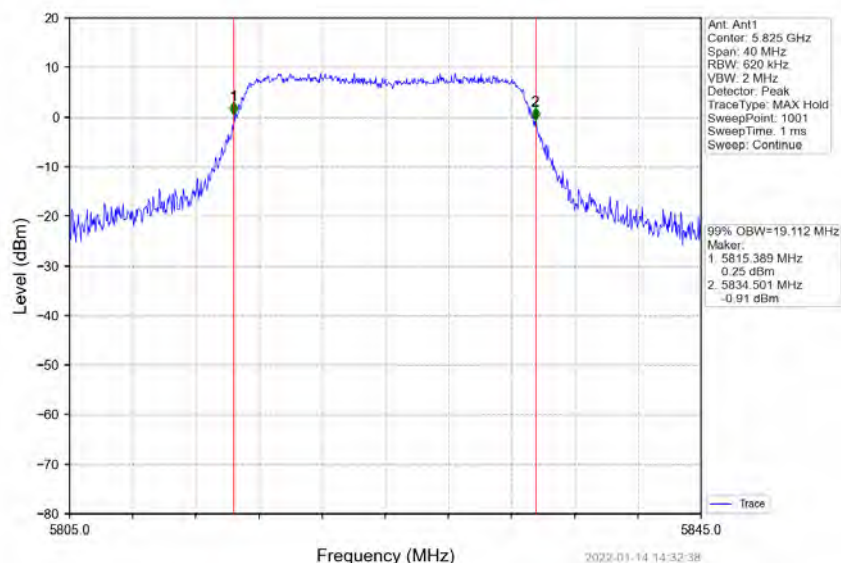
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802.11n(HT20) HCH 5825MHz Ant1 NTV



802.11n(HT40) LCH 5190MHz Ant1 NTV

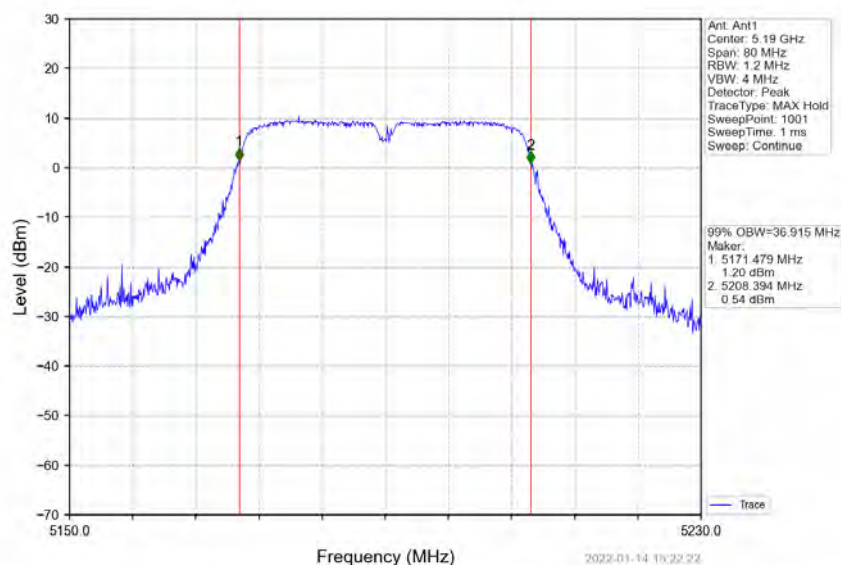


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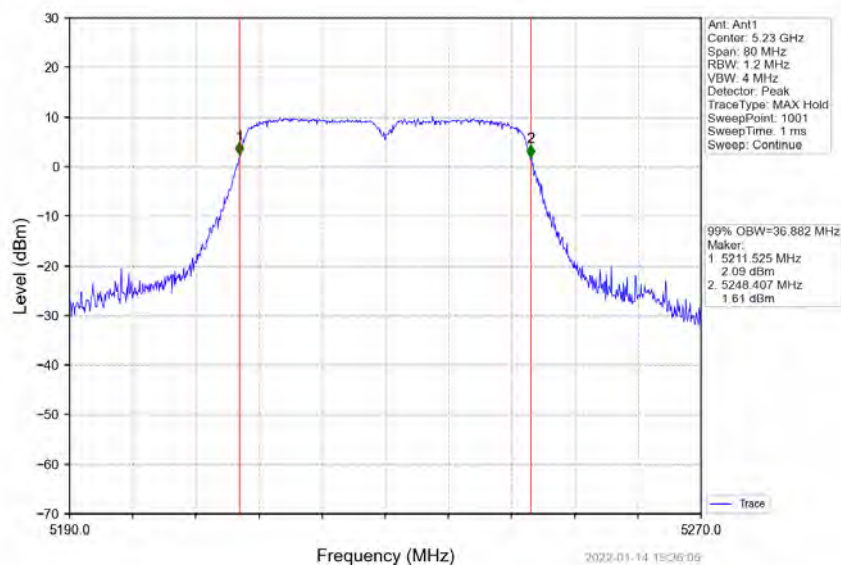
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802.11n(HT40) HCH 5230MHz Ant1 NTV



802.11n(HT40) LCH 5755MHz Ant1 NTV



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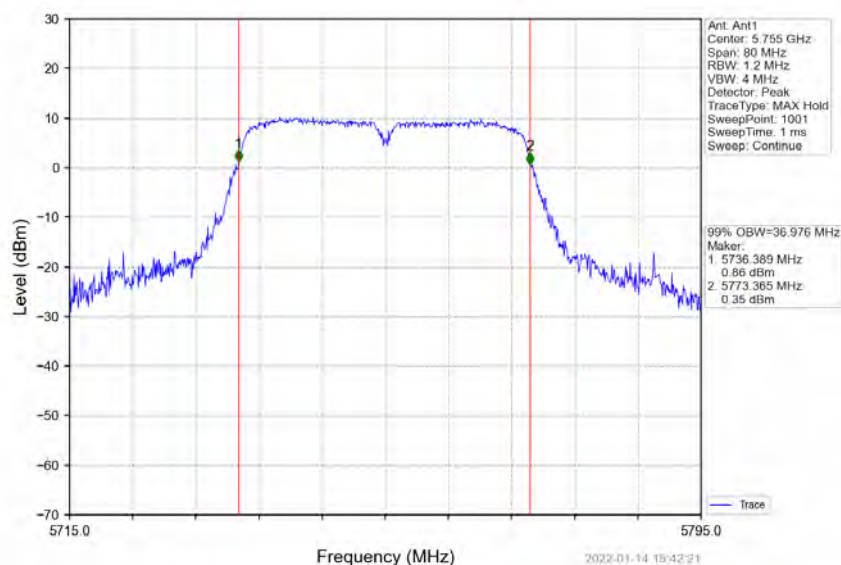
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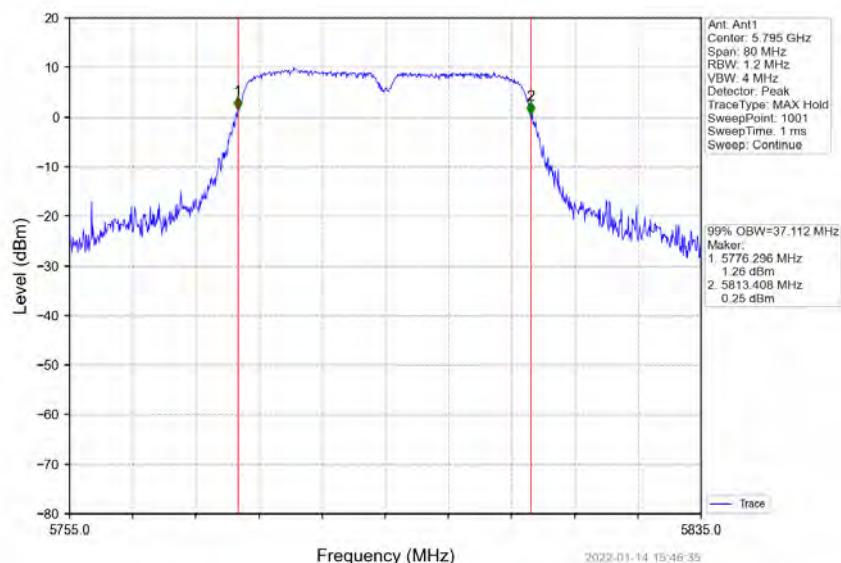
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802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT20) LCH 5180MHz Ant1 NTN

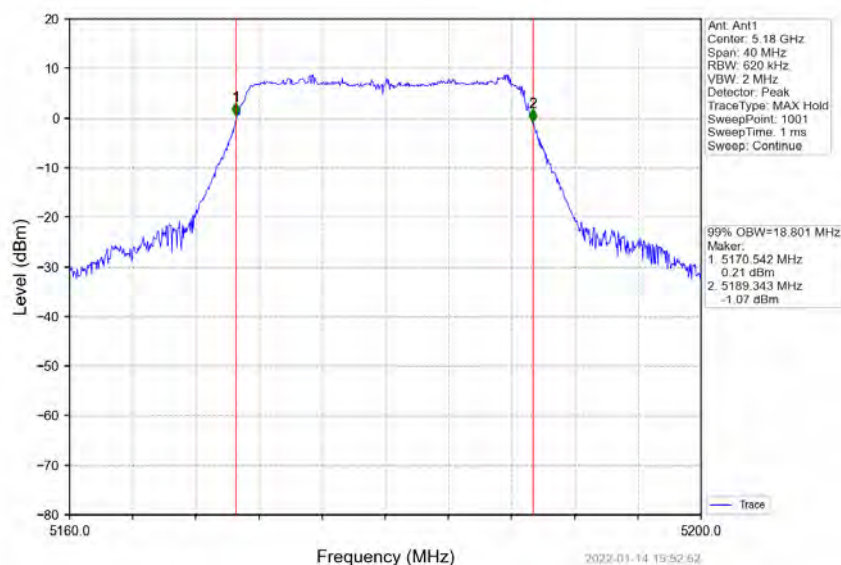


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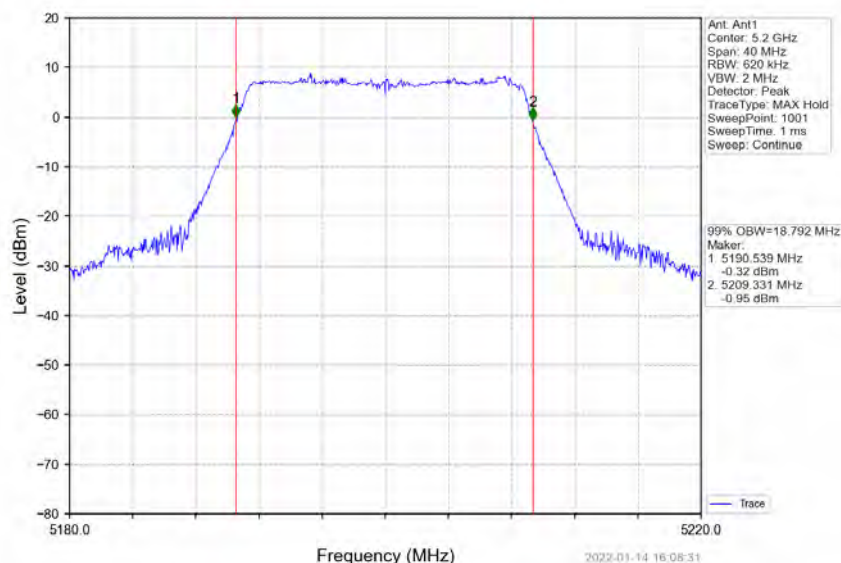
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802.11ac(VHT20) MCH 5200MHz Ant1 NTN



802.11ac(VHT20) HCH 5240MHz Ant1 NTN

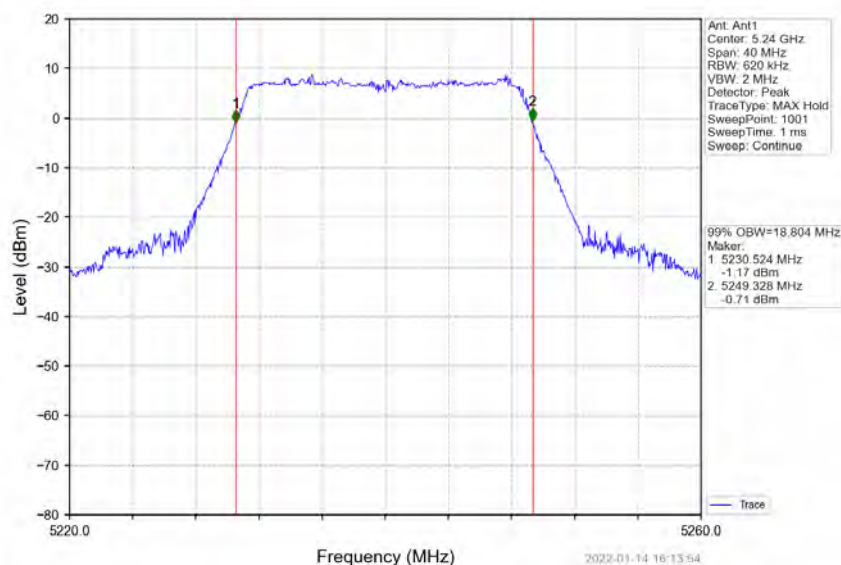


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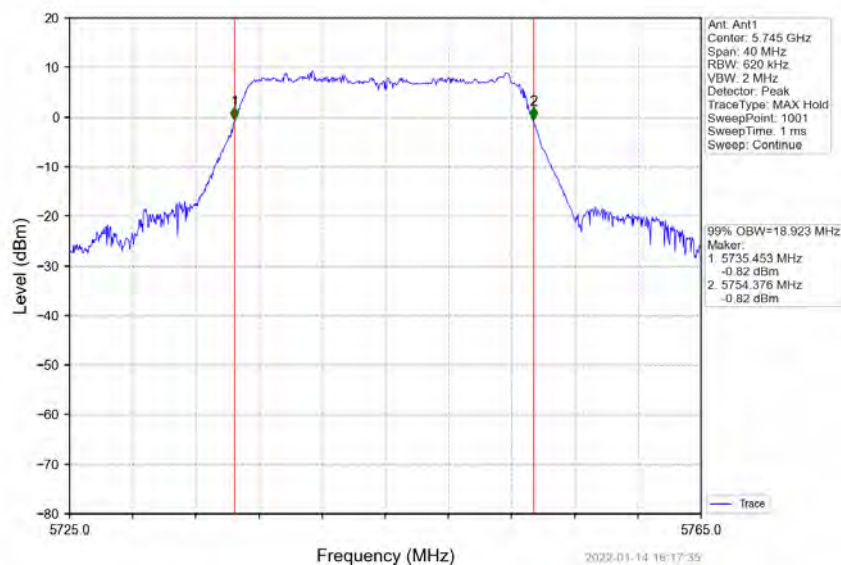
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802.11ac(VHT20) LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20) MCH_5785MHz_Ant1_NTNV

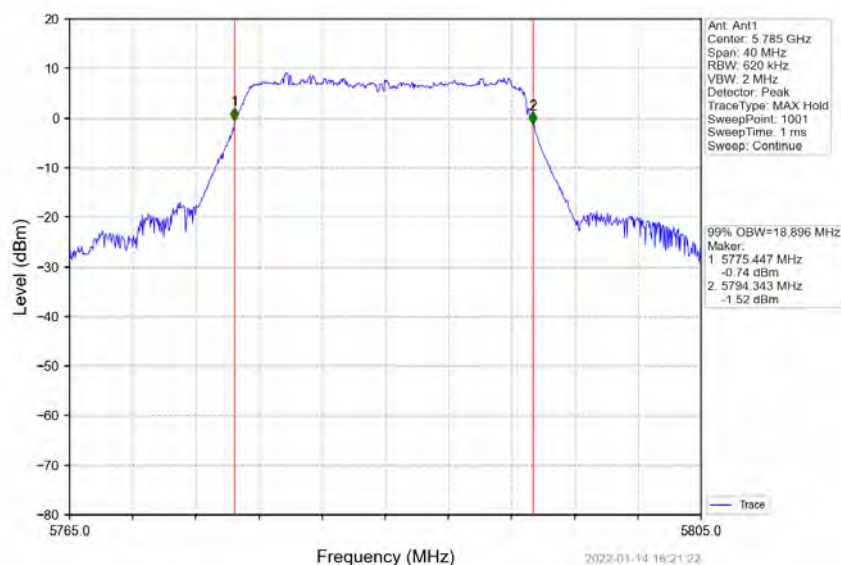


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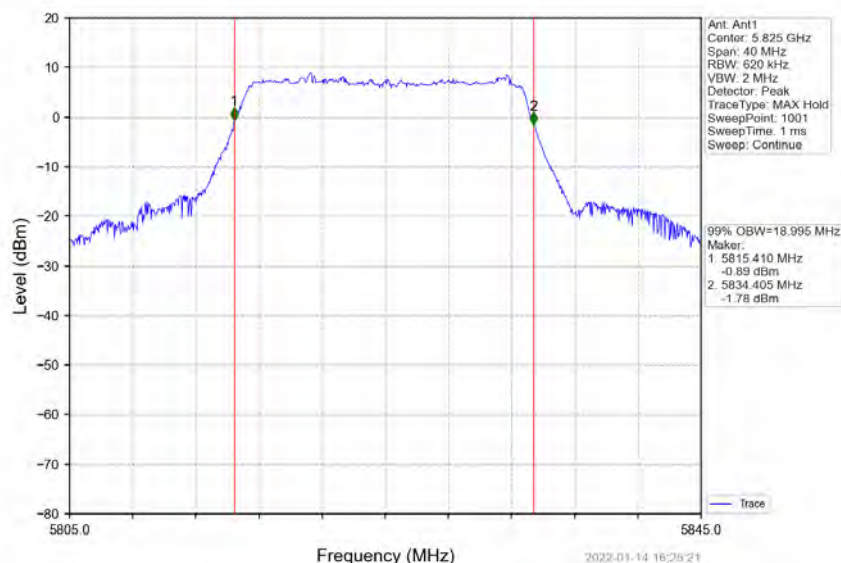
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

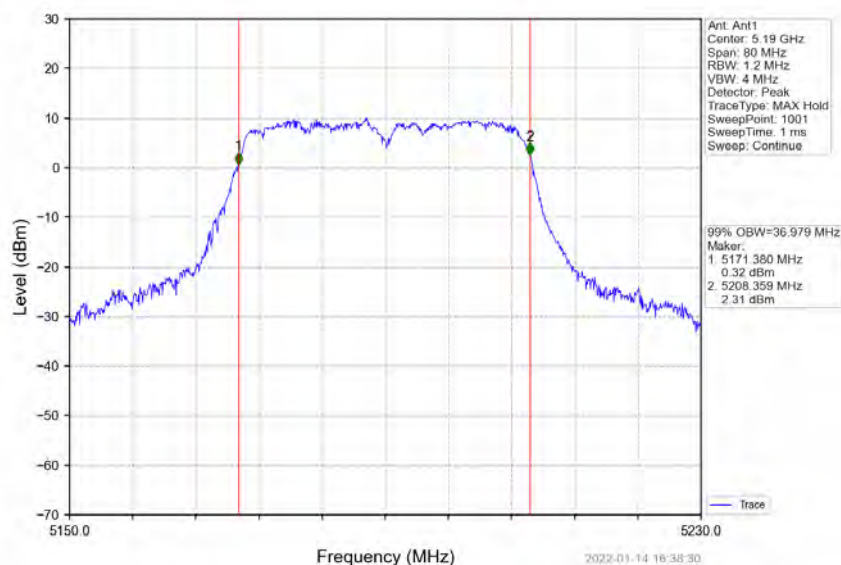


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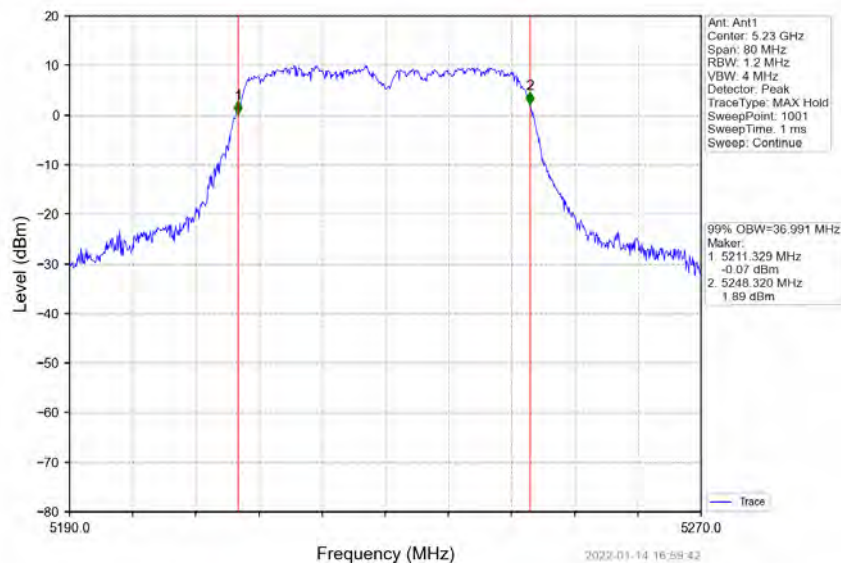
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802.11ac(VHT40) HCH 5230MHz Ant1 NTN



802.11ac(VHT40) LCH 5755MHz Ant1 NTN

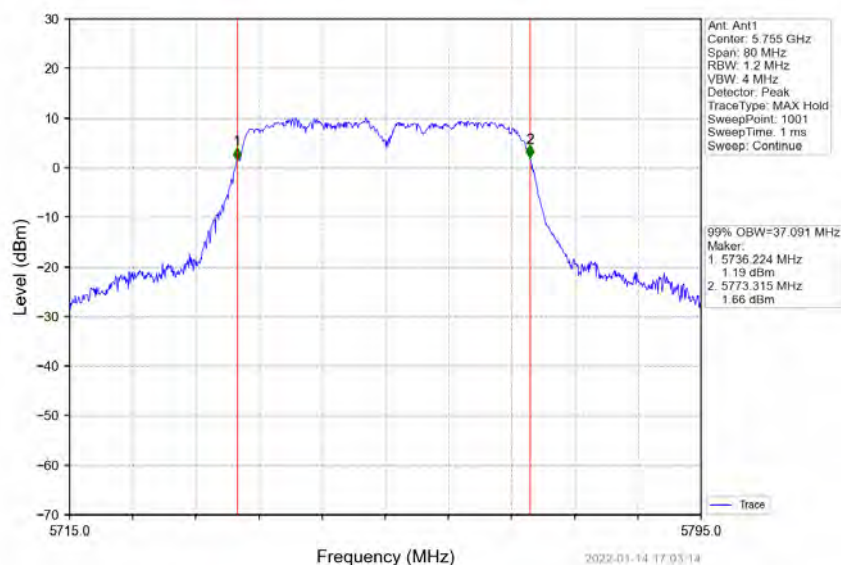


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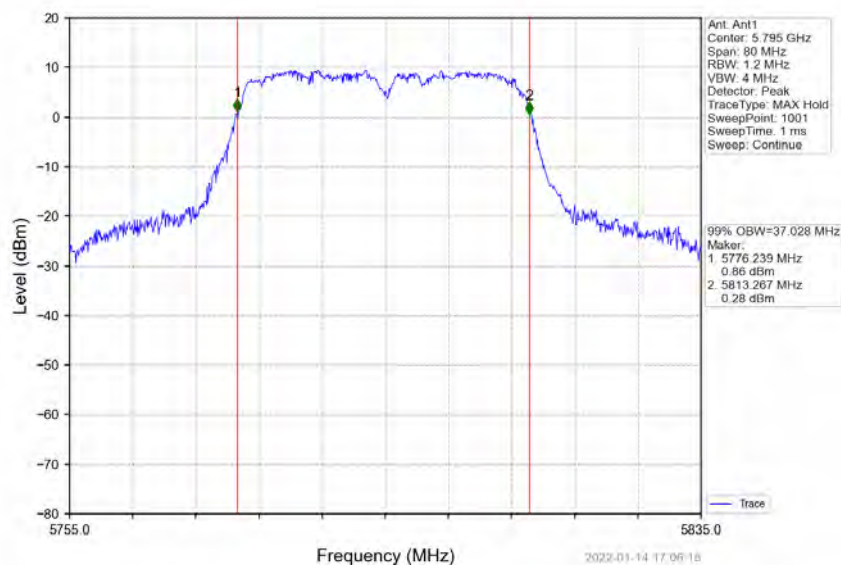
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802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN



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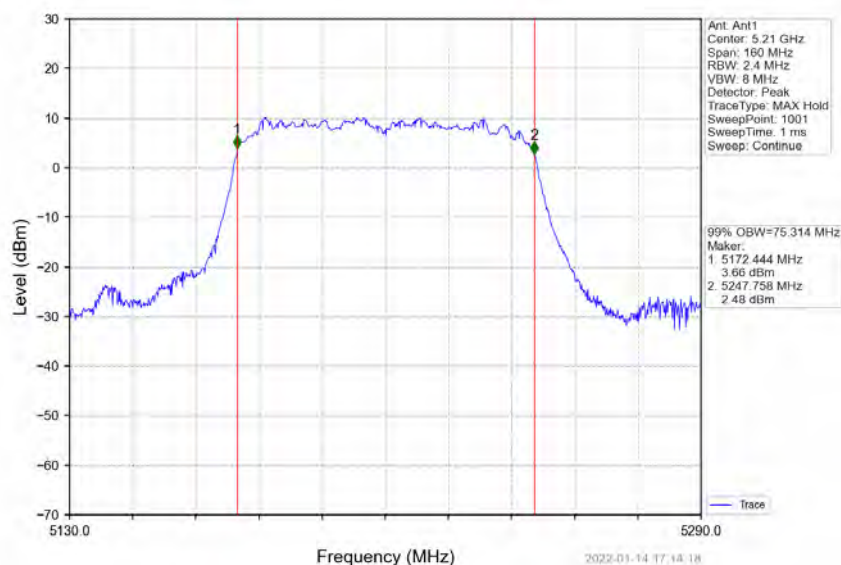
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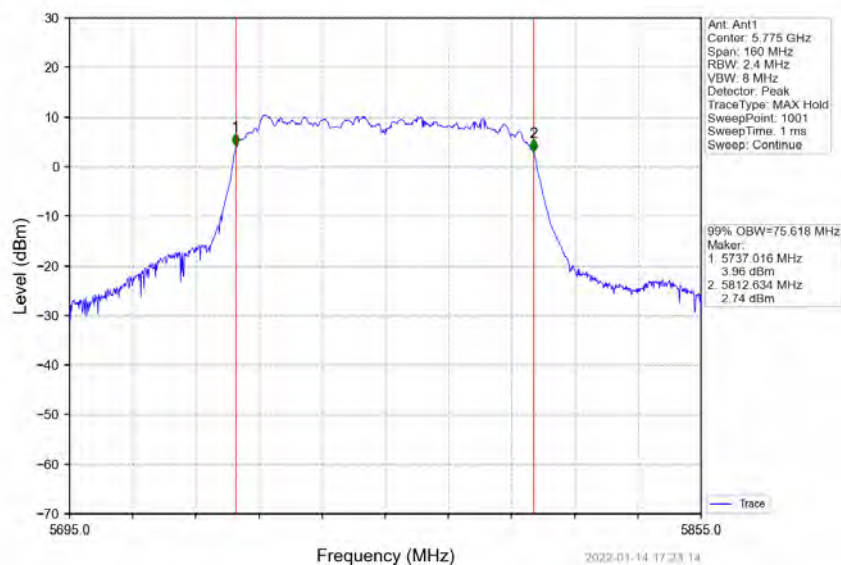
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802.11ac(VHT80) MCH 5775MHz Ant1 NTN



2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.437	≥ 0.5	Pass



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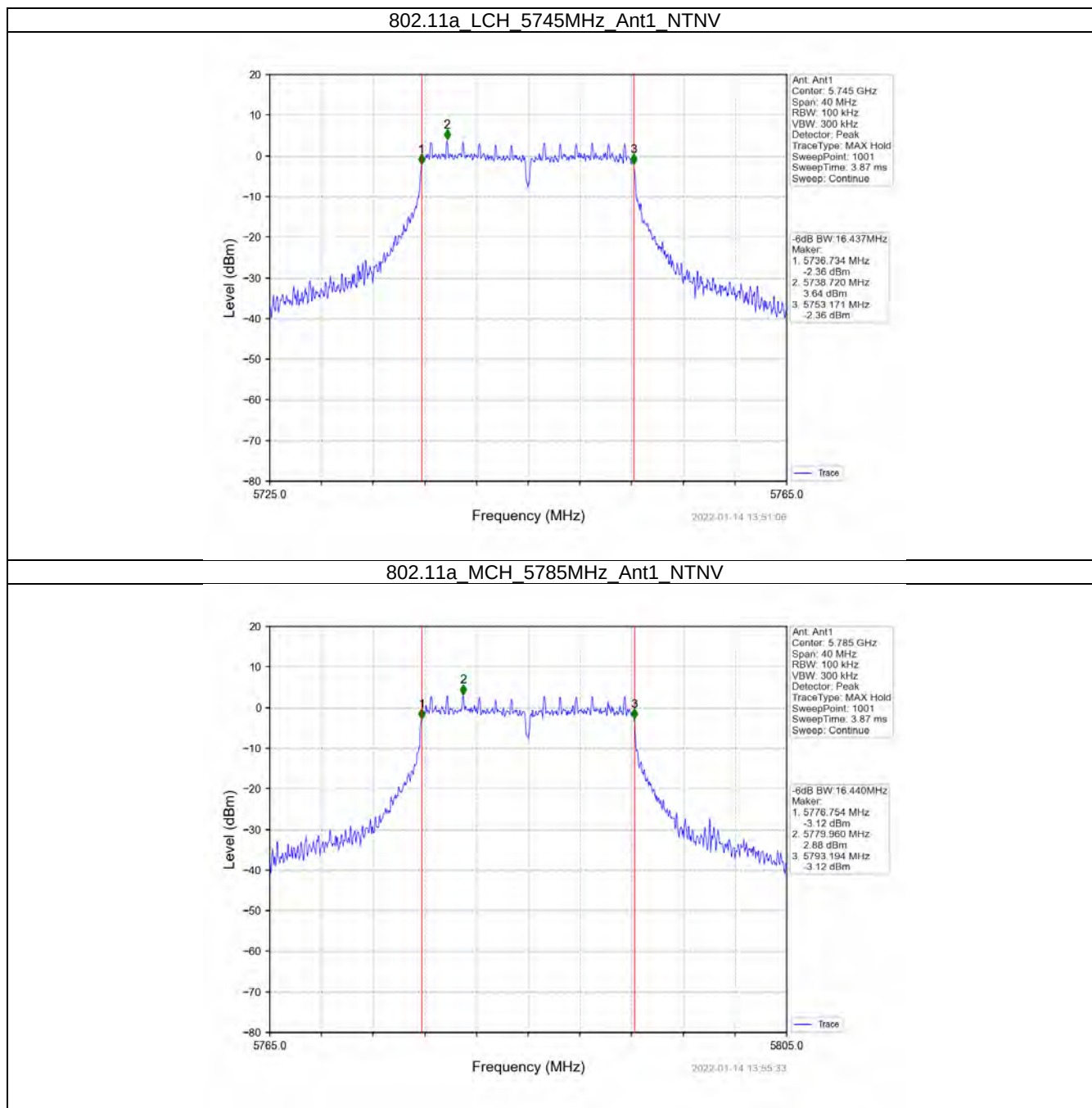
		5785	1	16.440	≥ 0.5	Pass
		5825	1	16.453	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.634	≥ 0.5	Pass
		5785	1	17.600	≥ 0.5	Pass
		5825	1	17.621	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.202	≥ 0.5	Pass
		5795	1	35.470	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.632	≥ 0.5	Pass
		5785	1	17.632	≥ 0.5	Pass
		5825	1	17.621	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.199	≥ 0.5	Pass
		5795	1	35.218	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.114	≥ 0.5	Pass



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2.2.2 Test Graph



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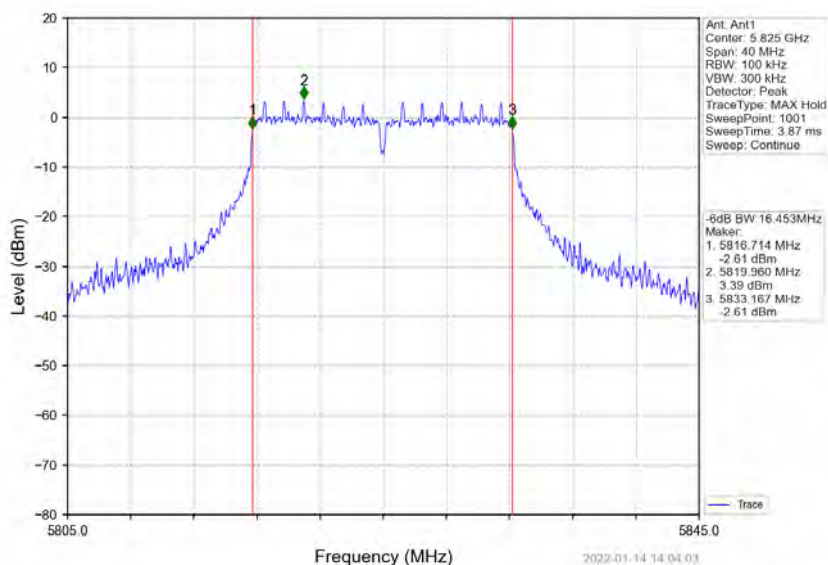
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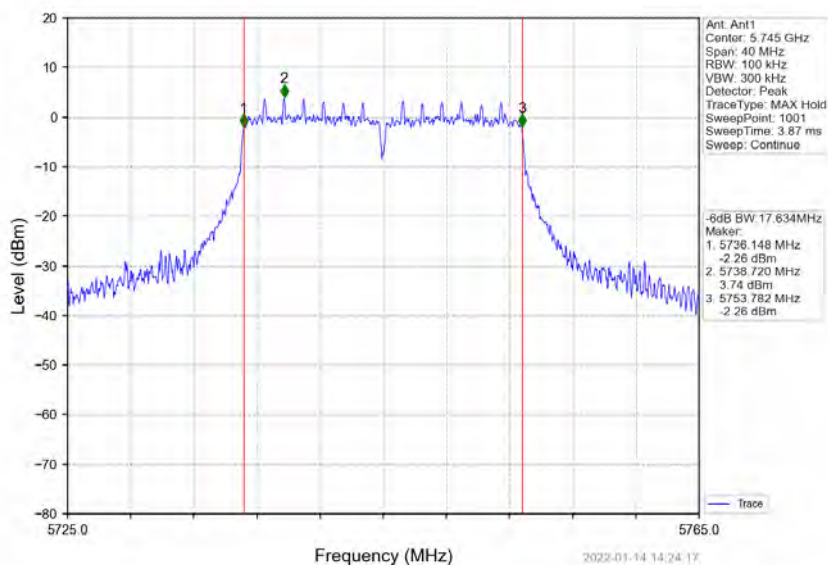
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802.11a HCH 5825MHz Ant1 NTN



802.11n(HT20) LCH 5745MHz Ant1 NTN



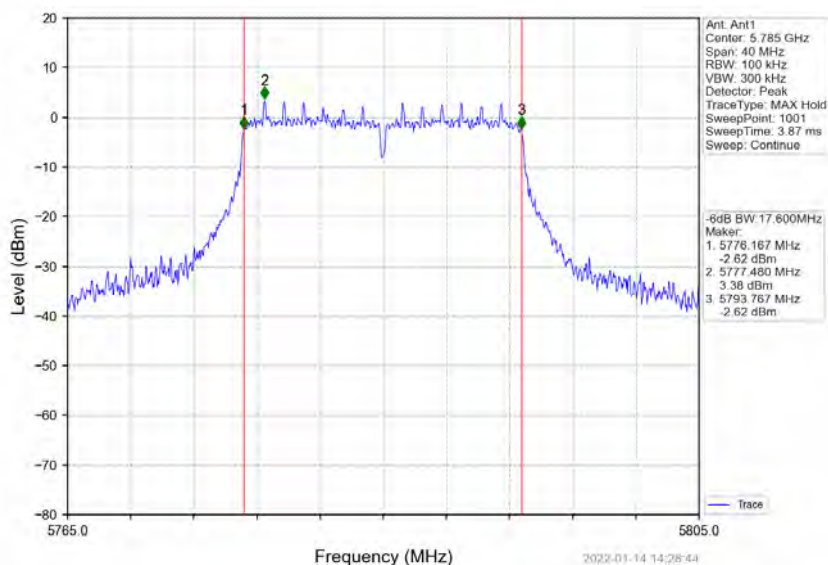
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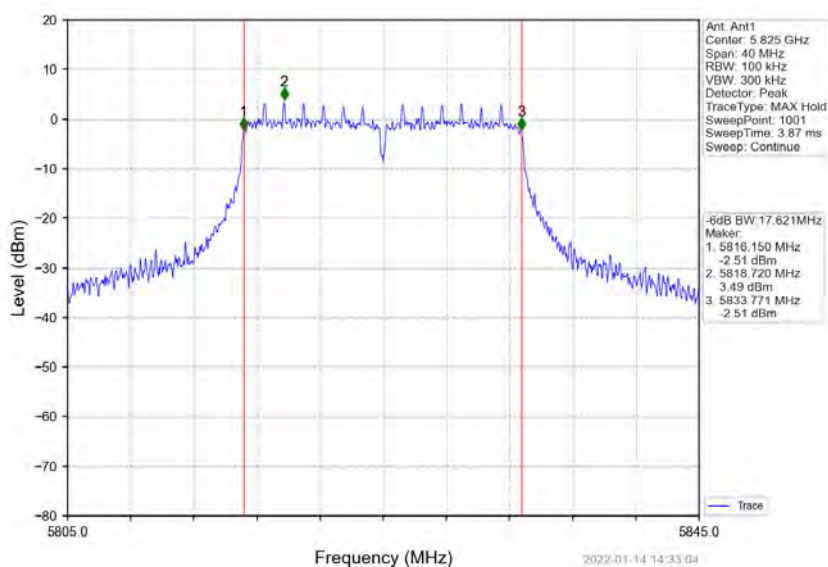
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802.11n(HT20) MCH 5785MHz Ant1 NTV



802.11n(HT20) HCH 5825MHz Ant1 NTV



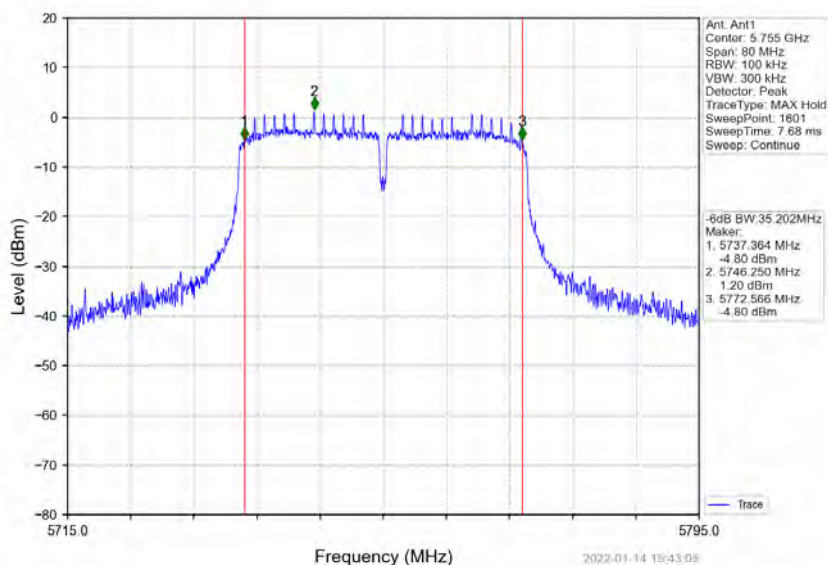
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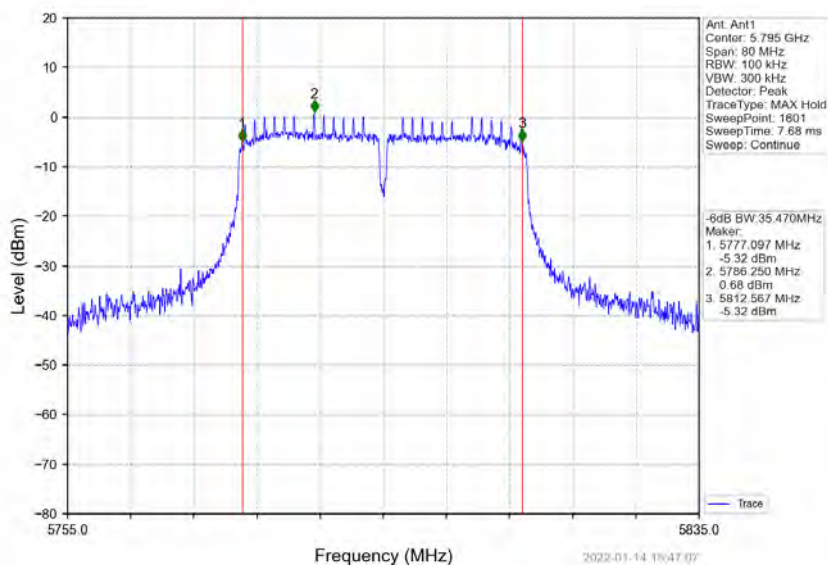
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802.11n(HT40) LCH 5755MHz Ant1 NTN



802.11n(HT40) HCH 5795MHz Ant1 NTN



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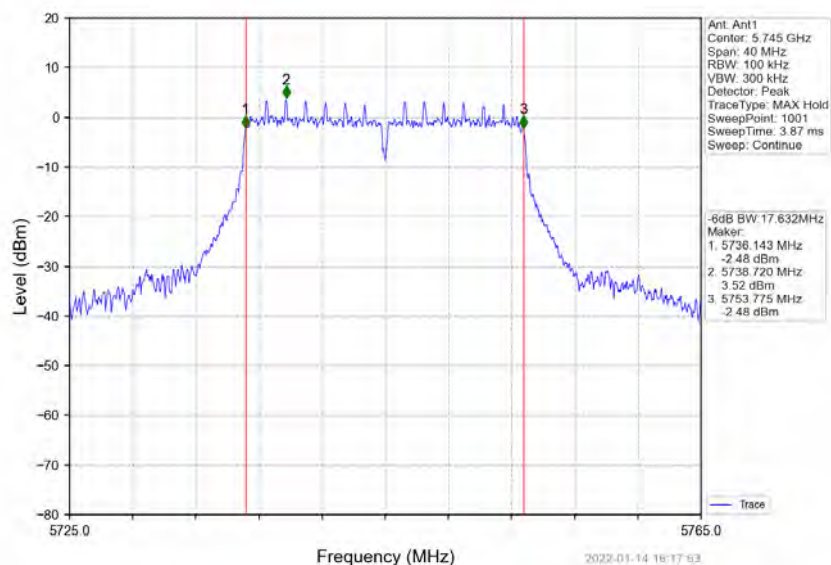
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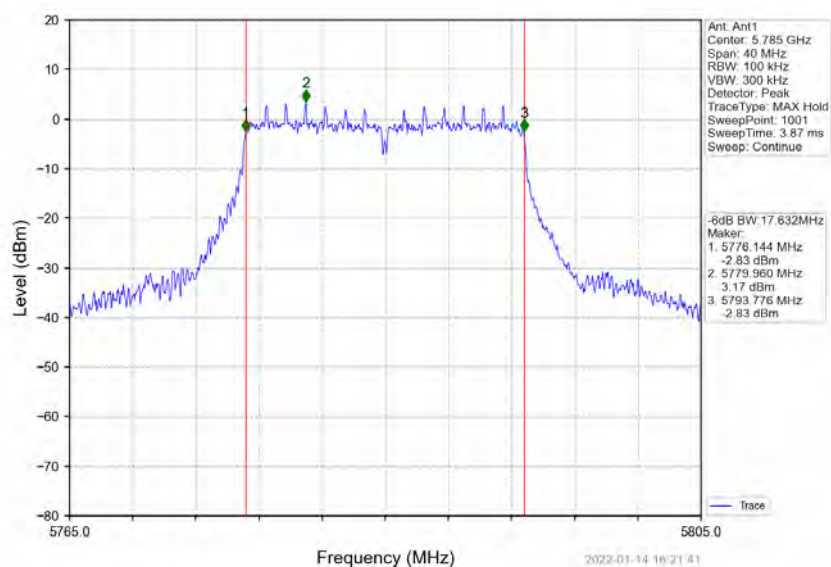
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802.11ac(VHT20) MCH 5785MHz Ant1 NTN



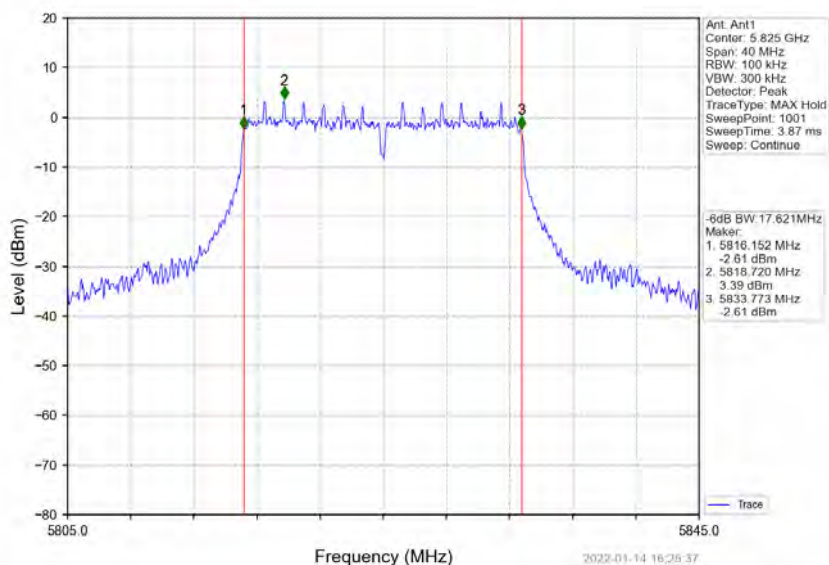
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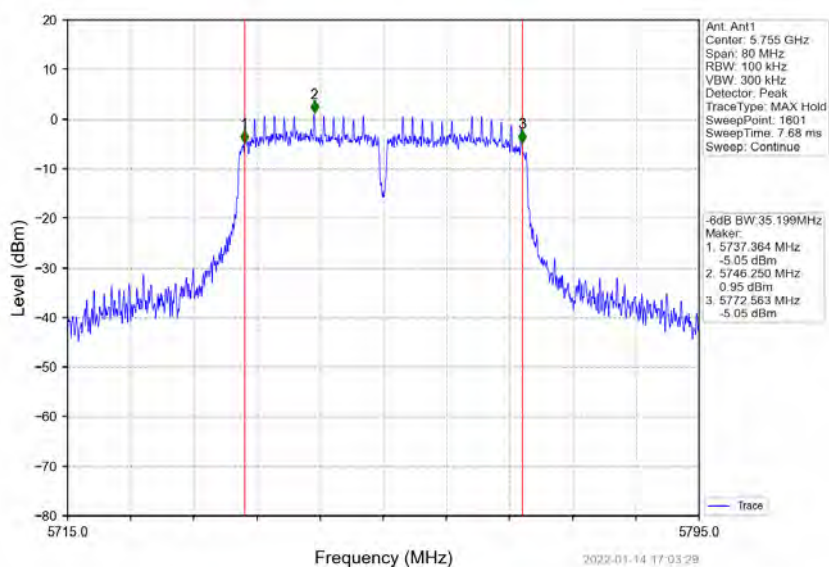
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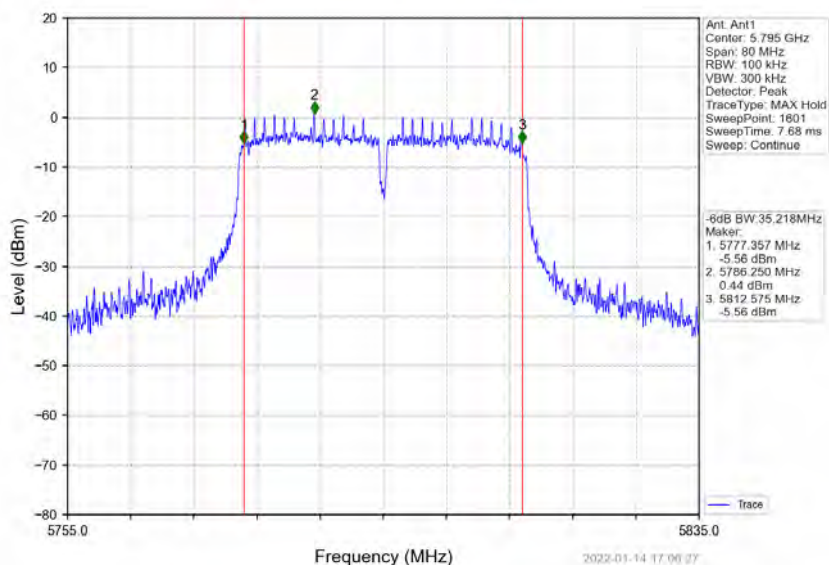
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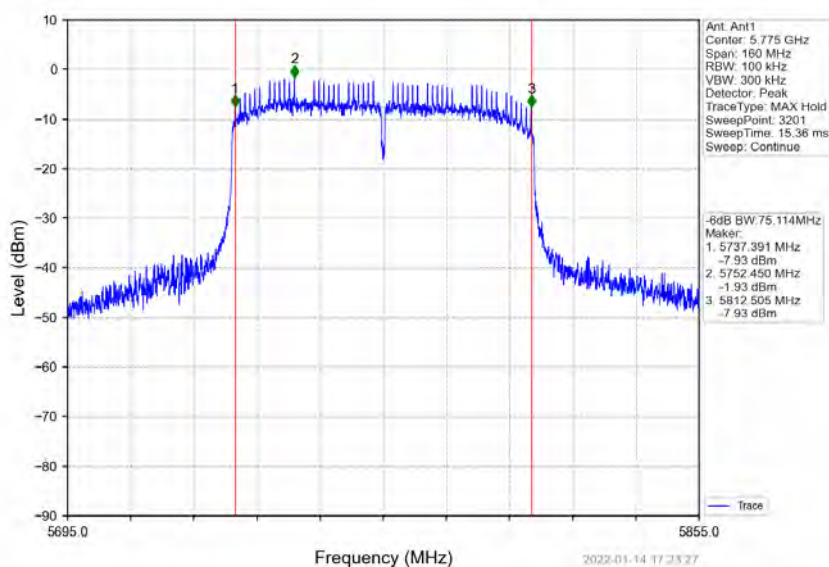
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802.11ac(VHT40) HCH 5795MHz Ant1 NTV



802.11ac(VHT80) MCH 5775MHz Ant1 NTV



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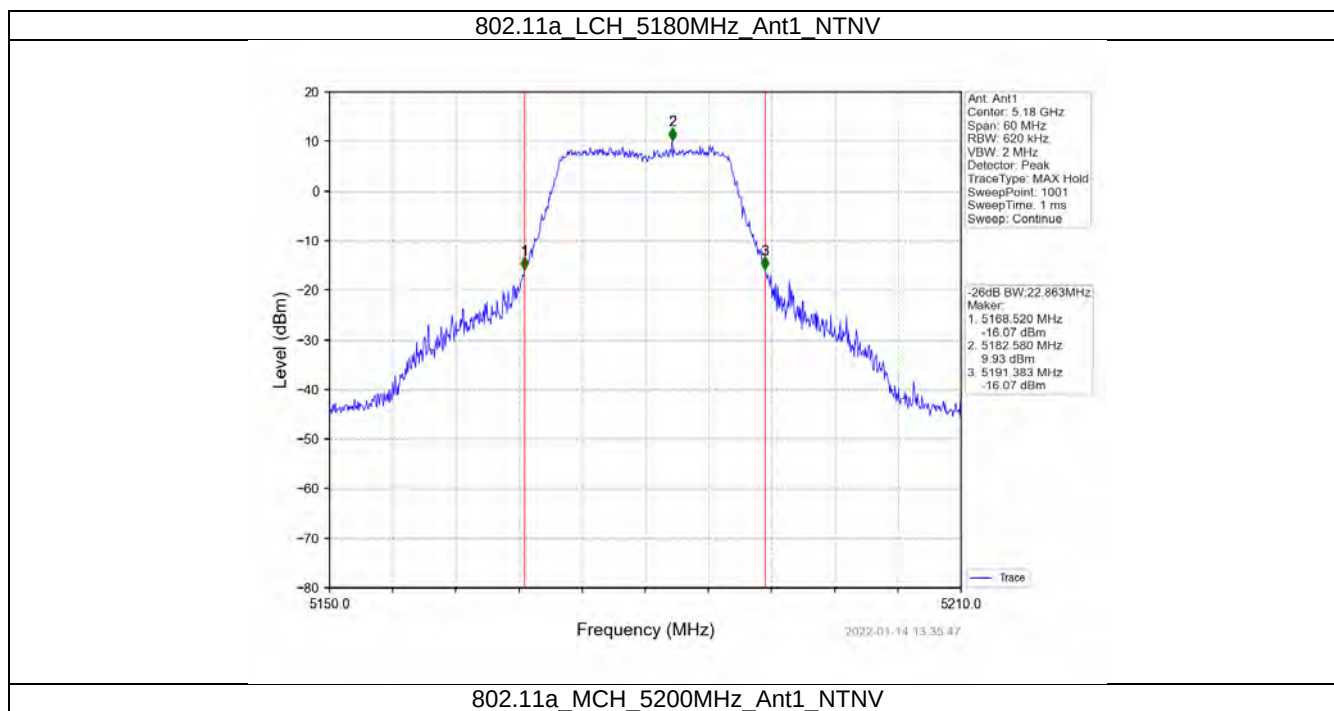
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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	22.863	Pass
		5200	1	22.909	Pass
		5240	1	23.145	Pass
802.11n (HT20)	SISO	5180	1	23.938	Pass
		5200	1	23.426	Pass
		5240	1	23.295	Pass
802.11n (HT40)	SISO	5190	1	46.160	Pass
		5230	1	46.917	Pass
802.11ac (VHT20)	SISO	5180	1	23.318	Pass
		5200	1	23.210	Pass
		5240	1	23.398	Pass
802.11ac (VHT40)	SISO	5190	1	45.140	Pass
		5230	1	44.567	Pass
802.11ac (VHT80)	SISO	5210	1	88.203	Pass

2.3.2 Test Graph



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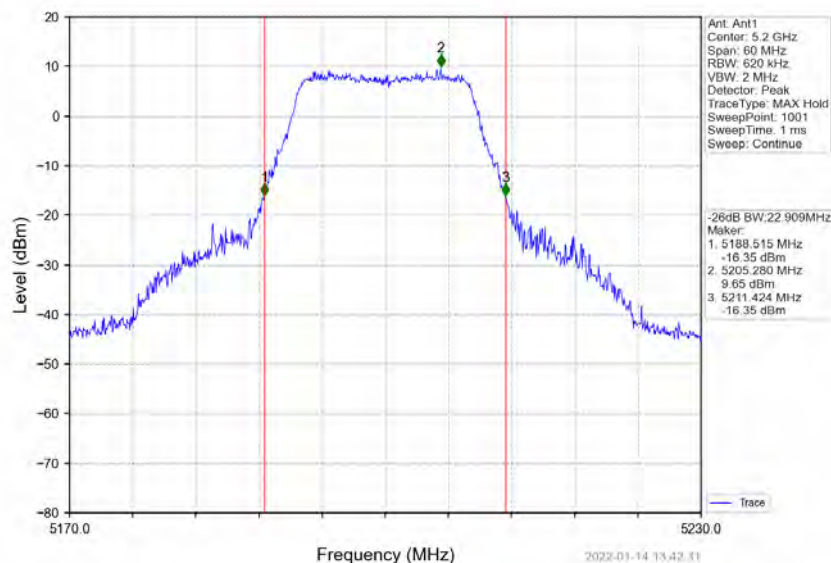
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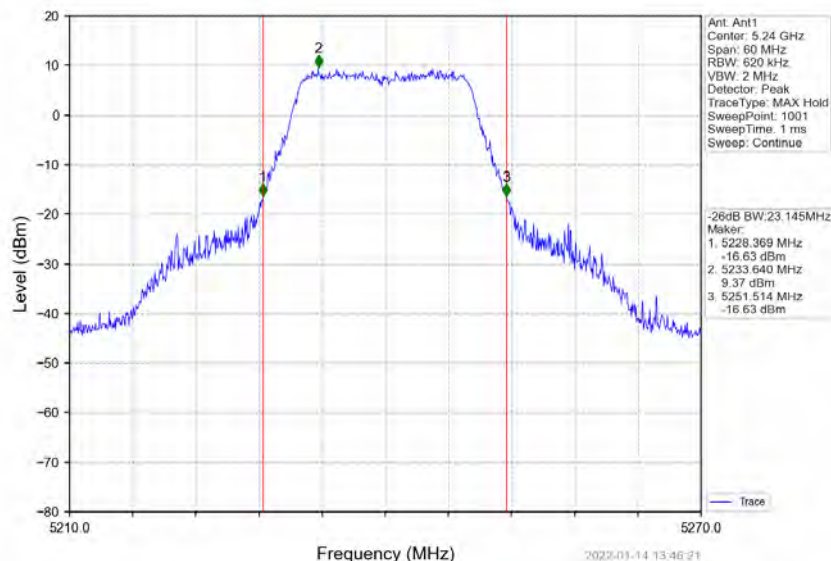
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

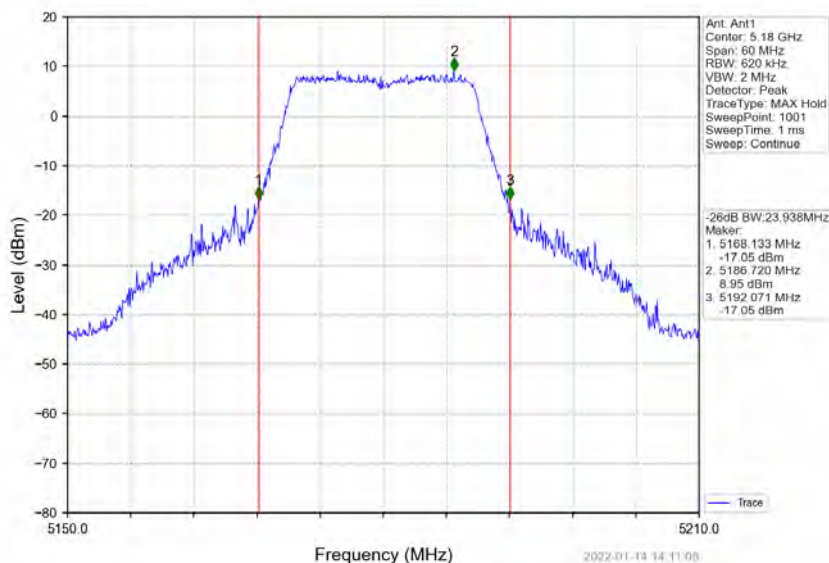


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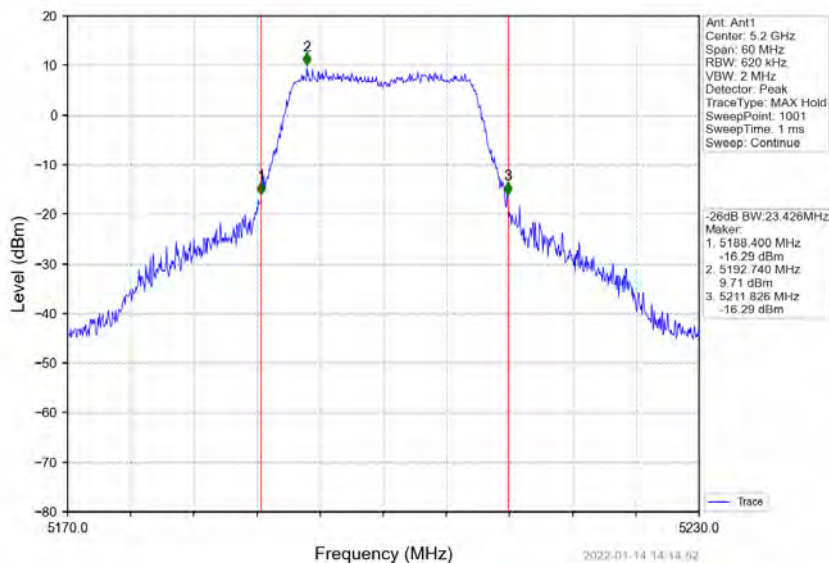
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802.11n(HT20) MCH 5200MHz Ant1 NTV



802.11n(HT20) HCH 5240MHz Ant1 NTV

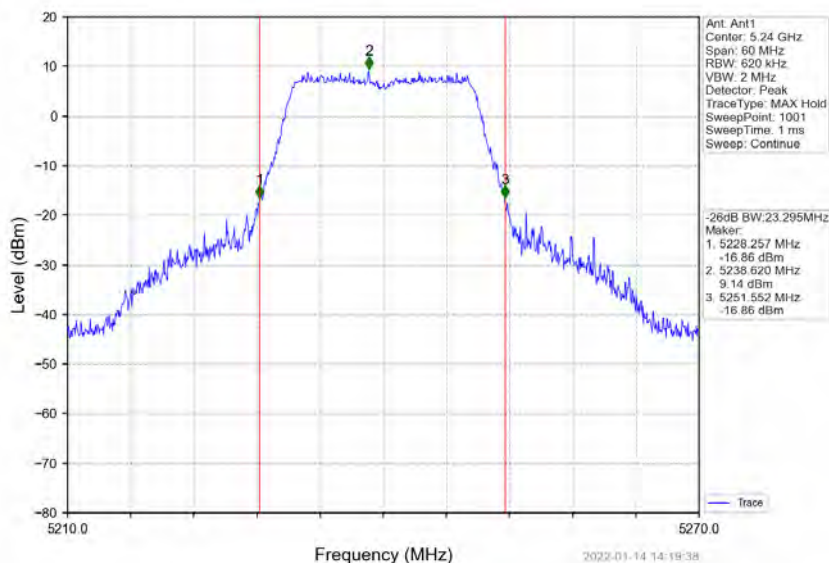


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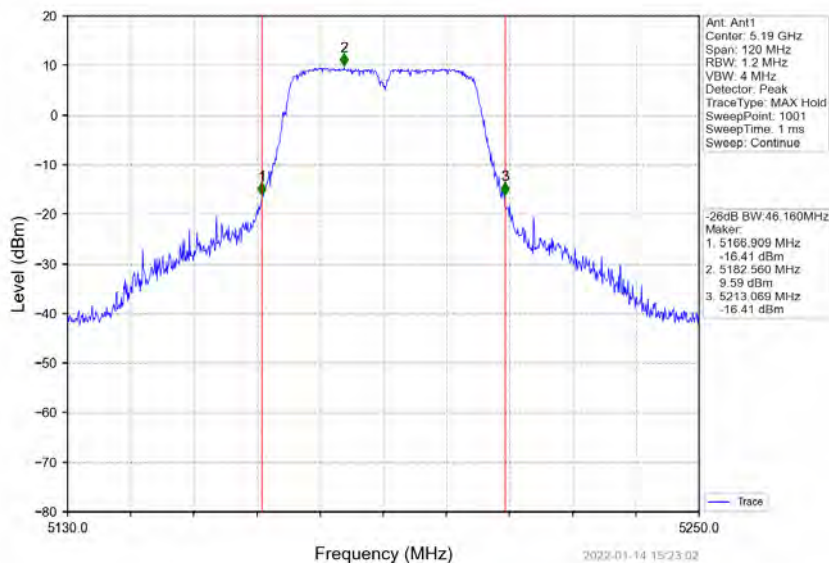
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802.11n(HT40) LCH 5190MHz Ant1 NTV



802.11n(HT40) HCH 5230MHz Ant1 NTV



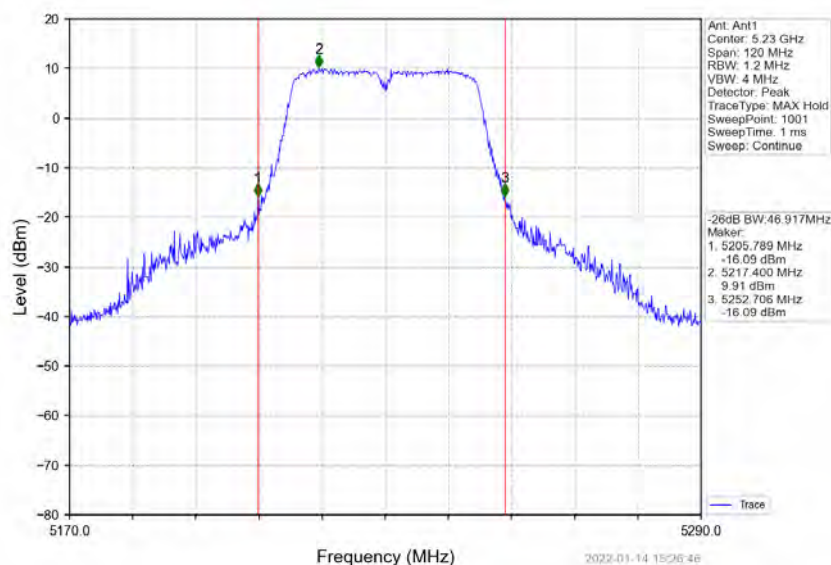
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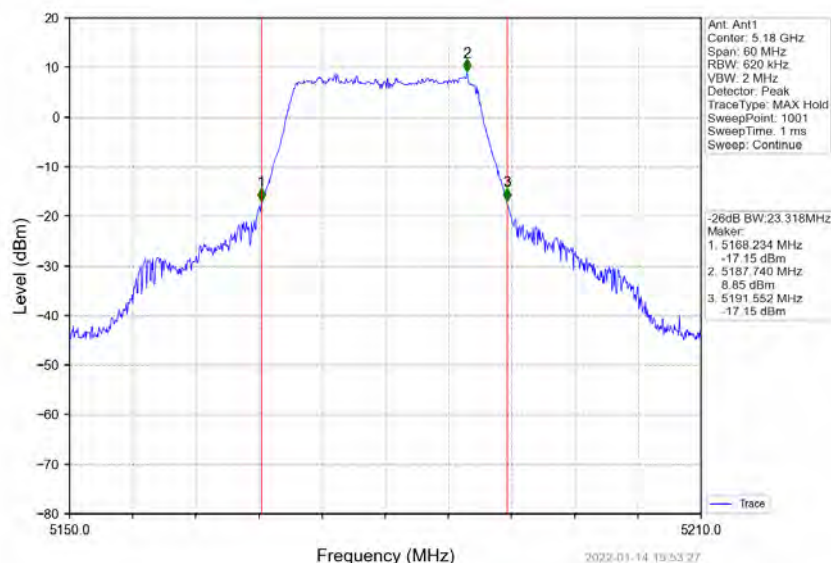
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802.11ac(VHT20) LCH 5180MHz Ant1 NTN



802.11ac(VHT20) MCH 5200MHz Ant1 NTN



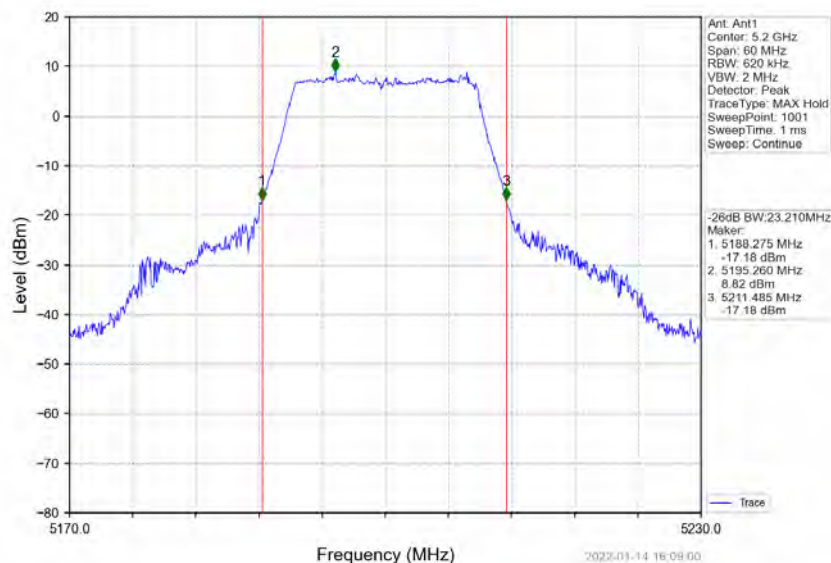
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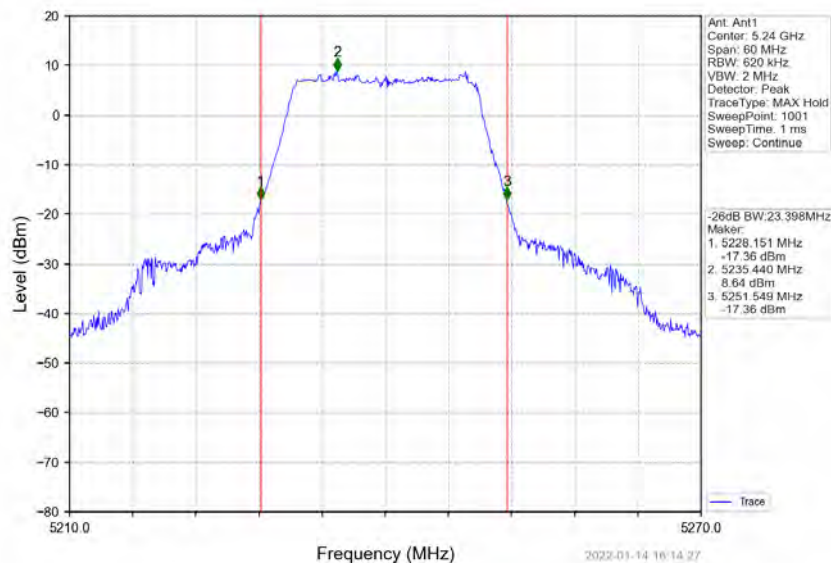
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802.11ac(VHT20) HCH 5240MHz Ant1 NTN



802.11ac(VHT40) LCH 5190MHz Ant1 NTN

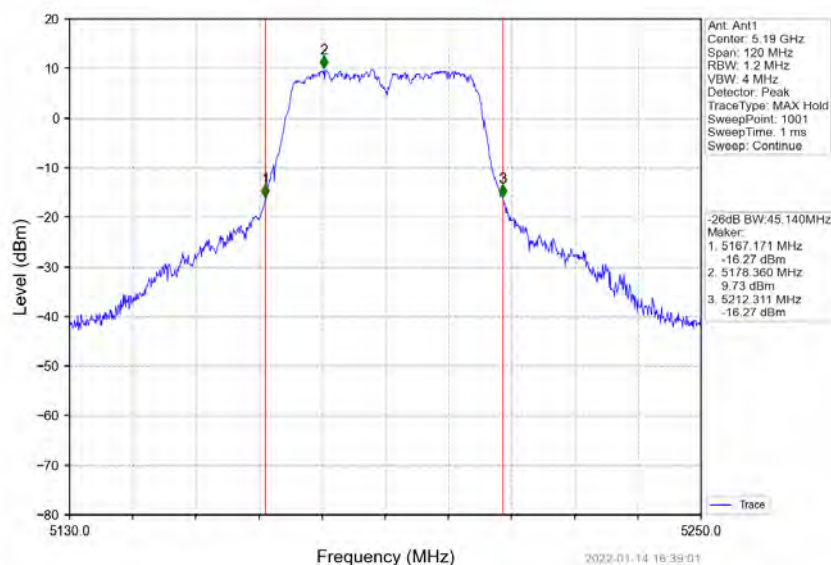


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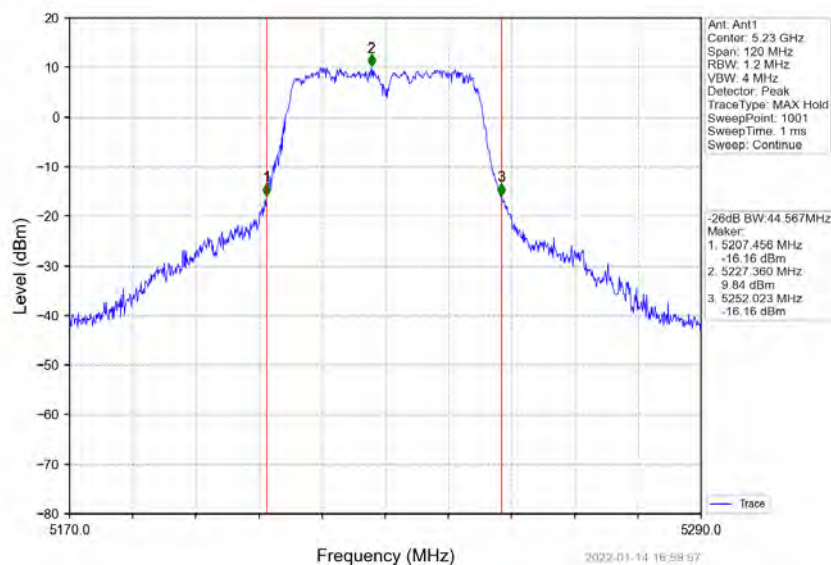
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802.11ac(VHT40) HCH 5230MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN



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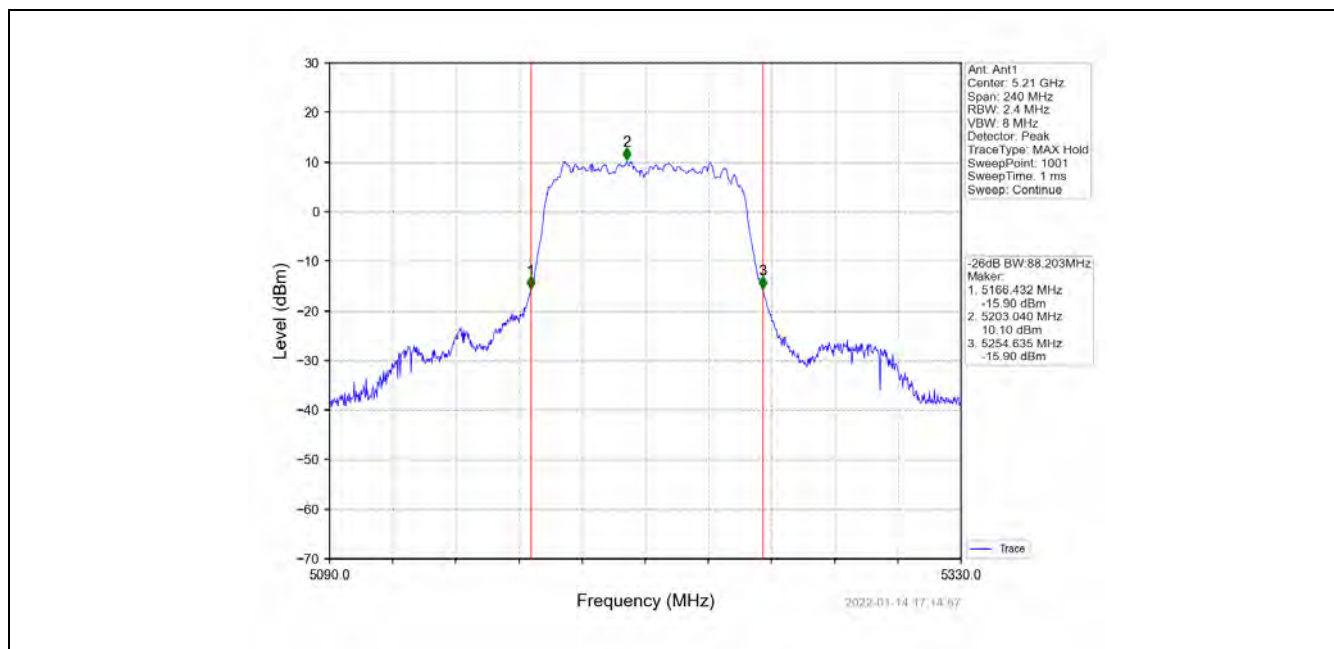
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	14.43	<=23.98	Pass
		5200	14.38	<=23.98	Pass
		5240	14.43	<=23.98	Pass
		5745	14.79	<=30	Pass
		5785	14.37	<=30	Pass
		5825	14.52	<=30	Pass
802.11n (HT20)	SISO	5180	14.51	<=23.98	Pass
		5200	14.46	<=23.98	Pass
		5240	14.50	<=23.98	Pass
		5745	14.83	<=30	Pass
		5785	14.45	<=30	Pass
		5825	14.53	<=30	Pass
802.11n (HT40)	SISO	5190	14.72	<=23.98	Pass
		5230	14.95	<=23.98	Pass
		5755	14.70	<=30	Pass
		5795	14.20	<=30	Pass
802.11ac (VHT20)	SISO	5180	14.54	<=23.98	Pass
		5200	14.56	<=23.98	Pass
		5240	14.44	<=23.98	Pass
		5745	14.80	<=30	Pass
		5785	14.29	<=30	Pass

		5825	14.60	<=30	Pass
802.11ac (VHT40)	SISO	5190	14.66	<=23.98	Pass
		5230	14.63	<=23.98	Pass
		5755	14.73	<=30	Pass
		5795	14.44	<=30	Pass
802.11ac (VHT80)	SISO	5210	14.57	<=23.98	Pass
		5775	14.76	<=30	Pass

Note1: Antenna Gain: Ant1: -3.79dBi;

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	10.64	<=22.60	Pass
		5200	10.59	<=22.58	Pass
		5240	10.64	<=22.56	Pass
802.11n (HT20)	SISO	5180	10.72	<=22.76	Pass
		5200	10.67	<=22.77	Pass
		5240	10.71	<=22.78	Pass
802.11n (HT40)	SISO	5190	10.93	<=23.01	Pass
		5230	11.16	<=23.01	Pass
802.11ac (VHT20)	SISO	5180	10.75	<=22.74	Pass
		5200	10.77	<=22.74	Pass
		5240	10.65	<=22.74	Pass
802.11ac (VHT40)	SISO	5190	10.87	<=23.01	Pass
		5230	10.84	<=23.01	Pass
802.11ac (VHT80)	SISO	5210	10.78	<=23.01	Pass

Note1: Antenna Gain: Ant1: -3.79dBi;
Note2: E.I.R.P = Measured Power + Antenna Gain

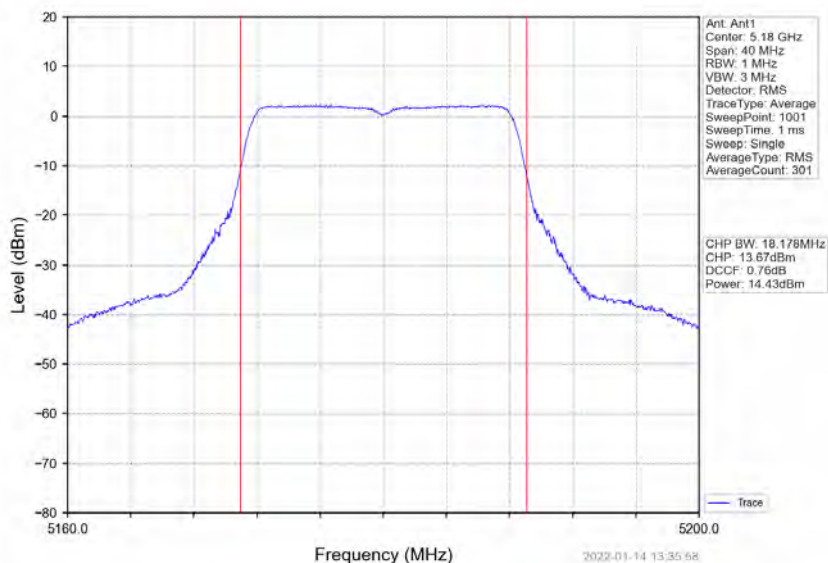
3.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV

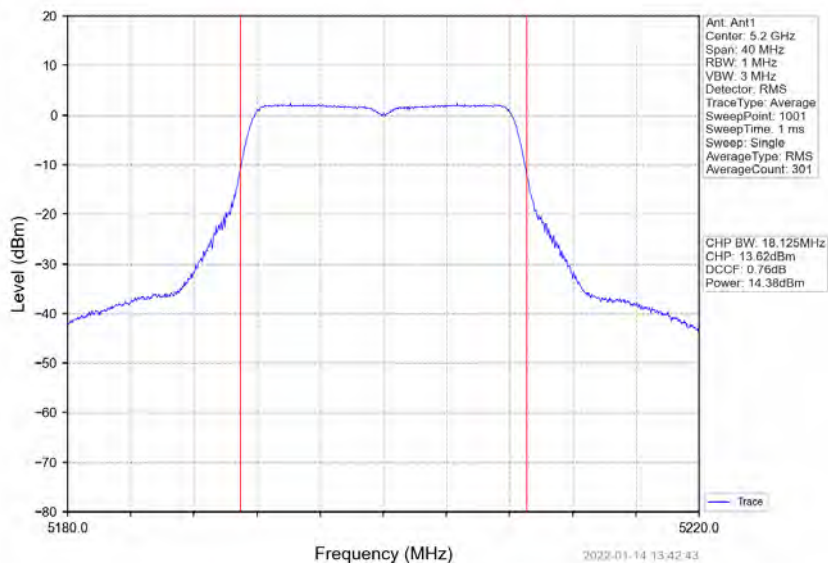


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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant1_NTNV

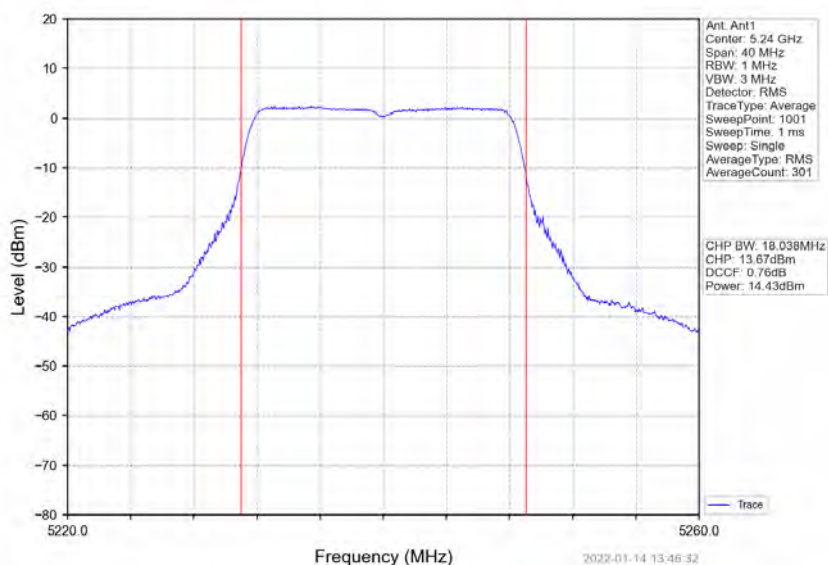


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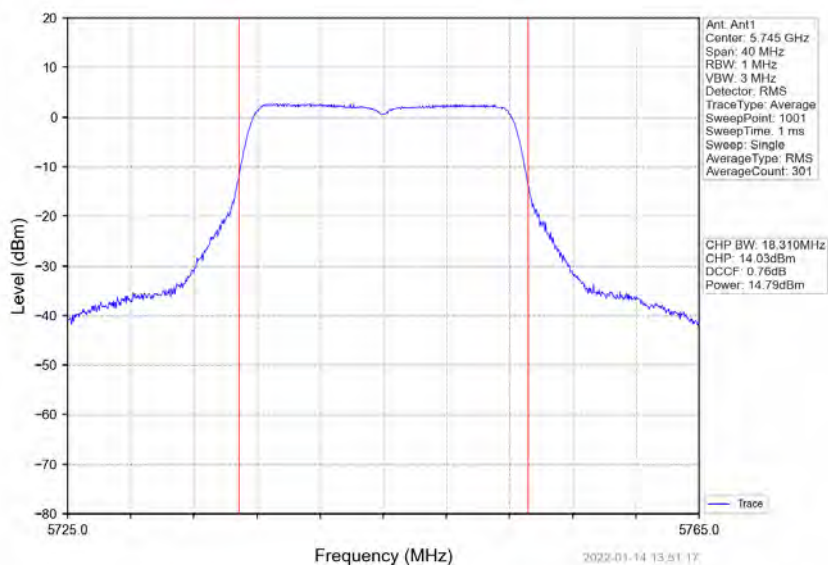
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802.11a LCH 5745MHz Ant1 NTNv



802.11a MCH 5785MHz Ant1 NTNv



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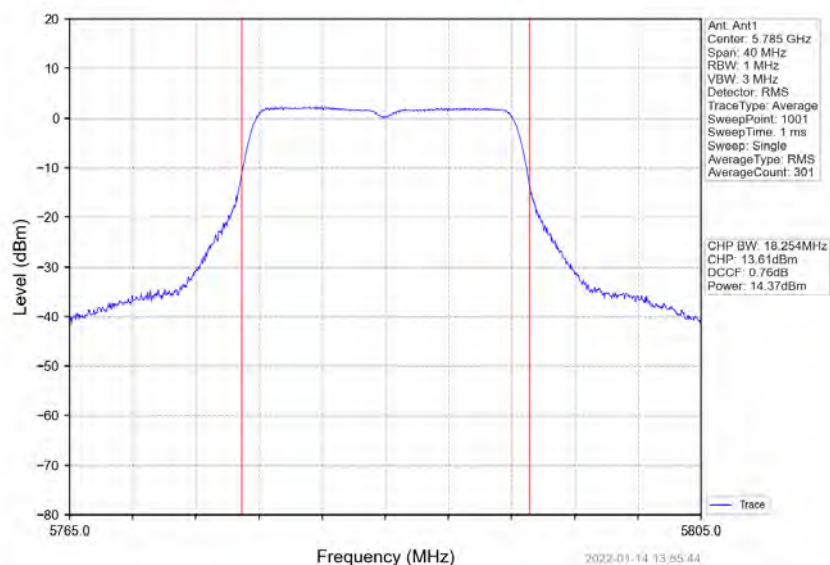
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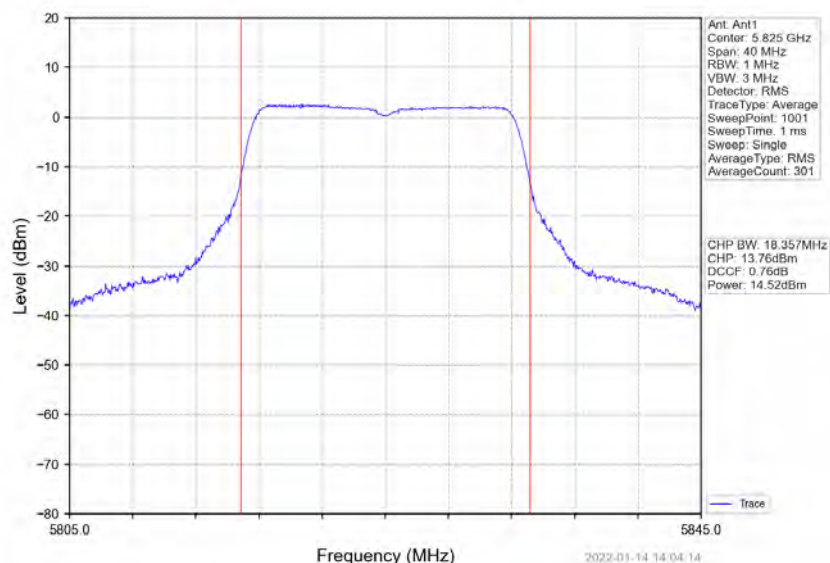
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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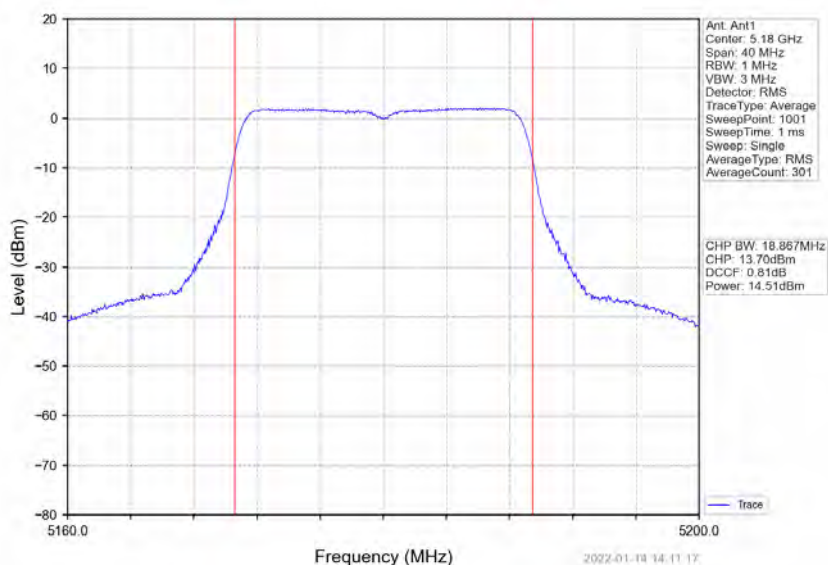
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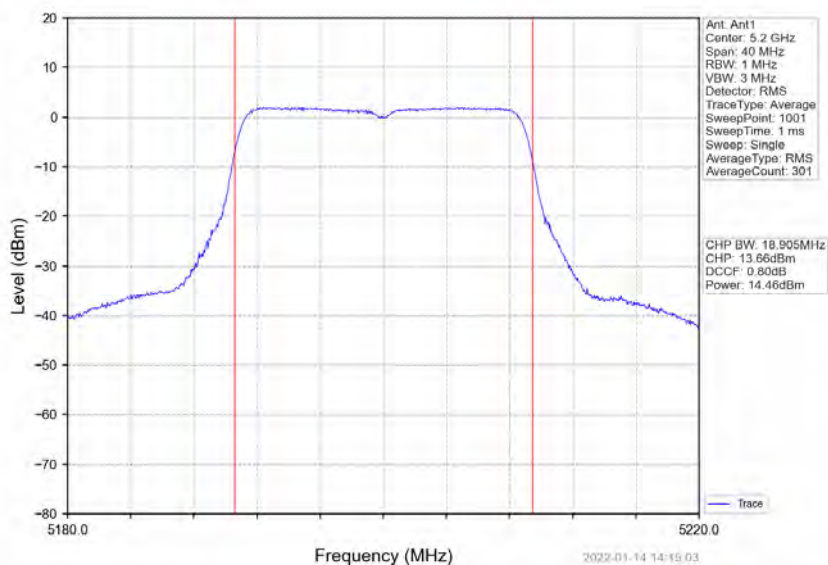
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802.11n(HT20) MCH 5200MHz Ant1 NTV



802.11n(HT20) HCH 5240MHz Ant1 NTV

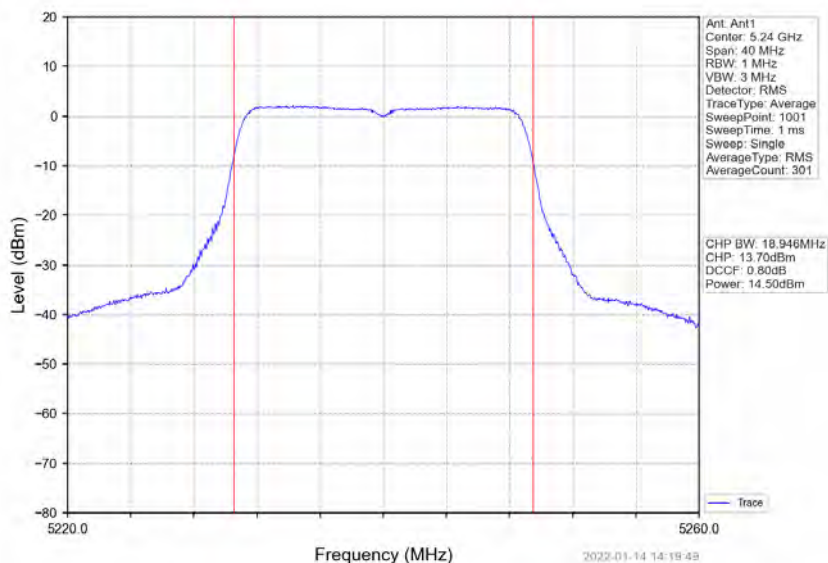


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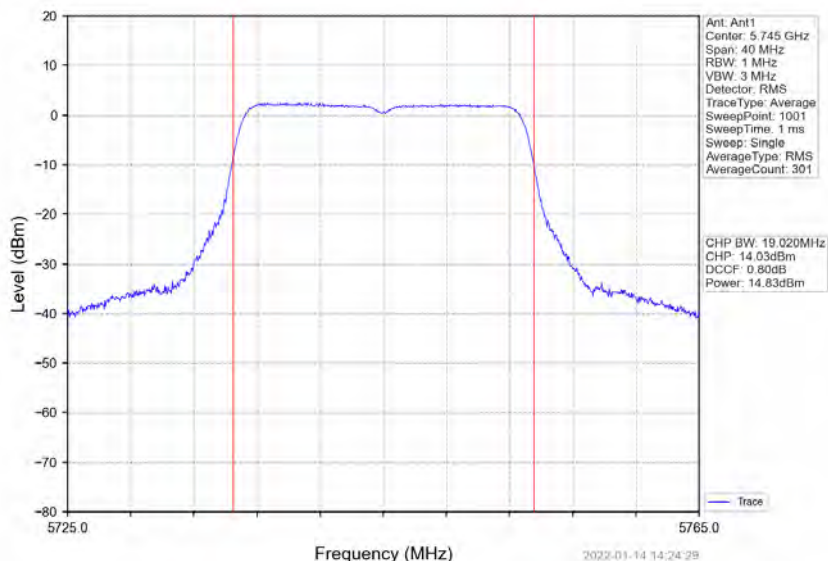
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802.11n(HT20) LCH 5745MHz Ant1 NTV



802.11n(HT20) MCH 5785MHz Ant1 NTV



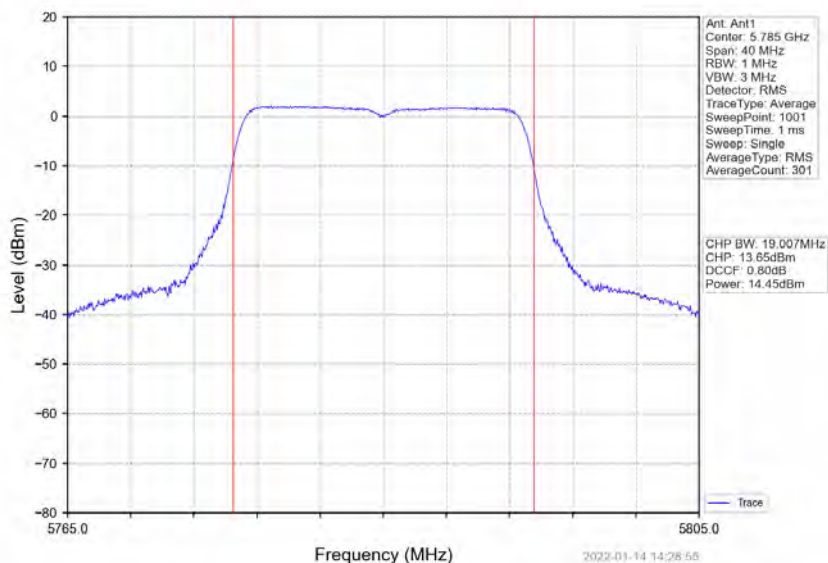
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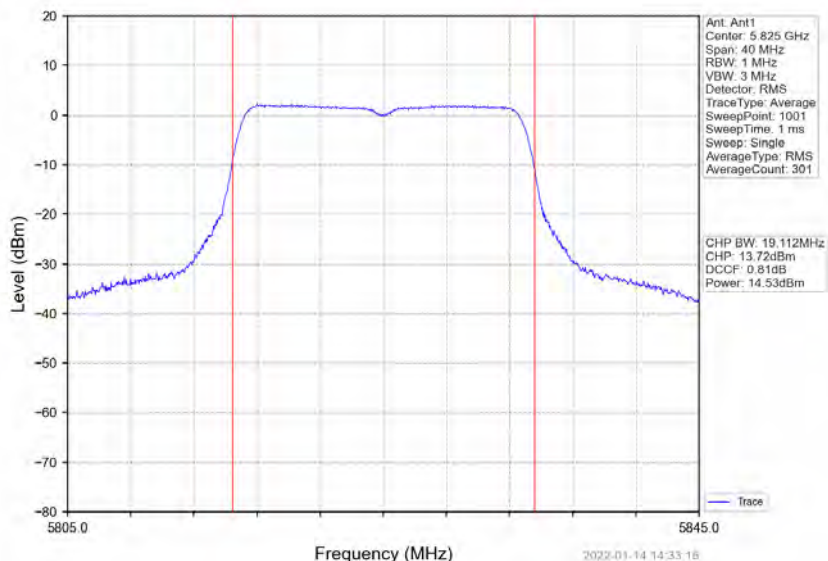
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802.11n(HT20) HCH 5825MHz Ant1 NTV



802.11n(HT40) LCH 5190MHz Ant1 NTV

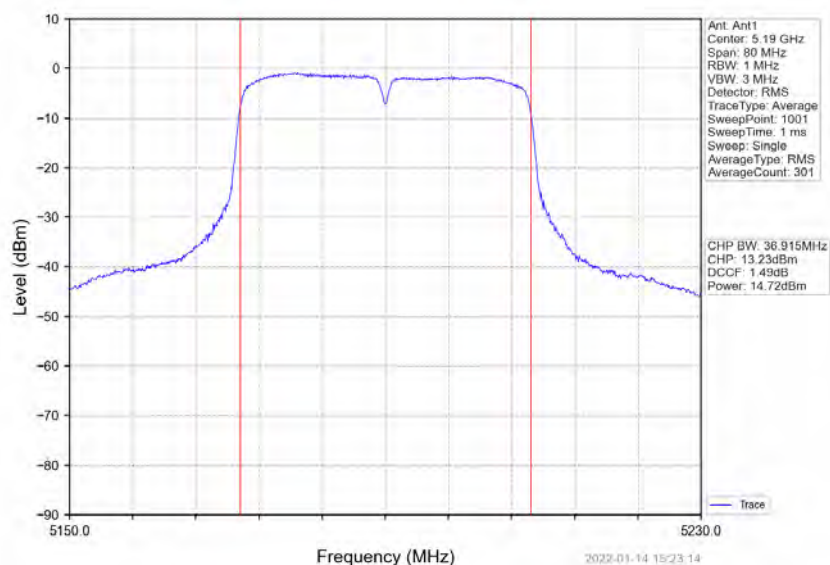


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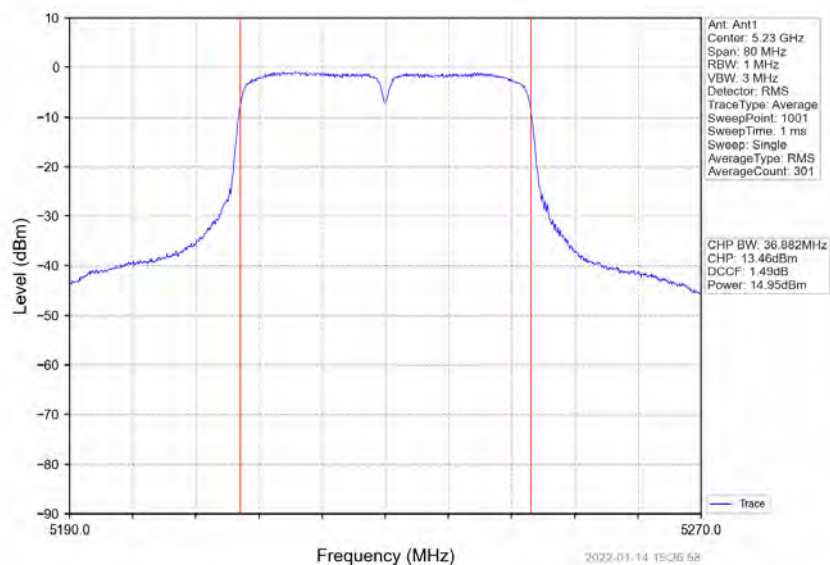
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802.11n(HT40) HCH 5230MHz Ant1 NTV



802.11n(HT40) LCH 5755MHz Ant1 NTV



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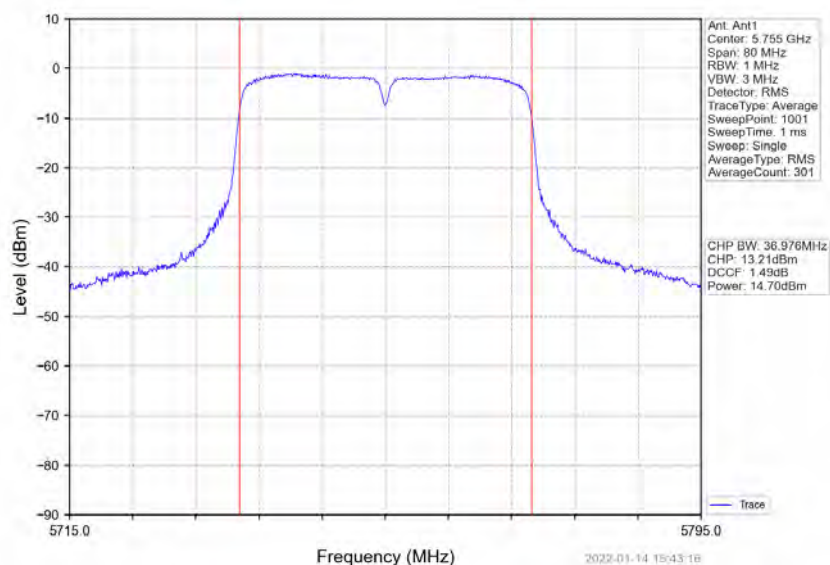
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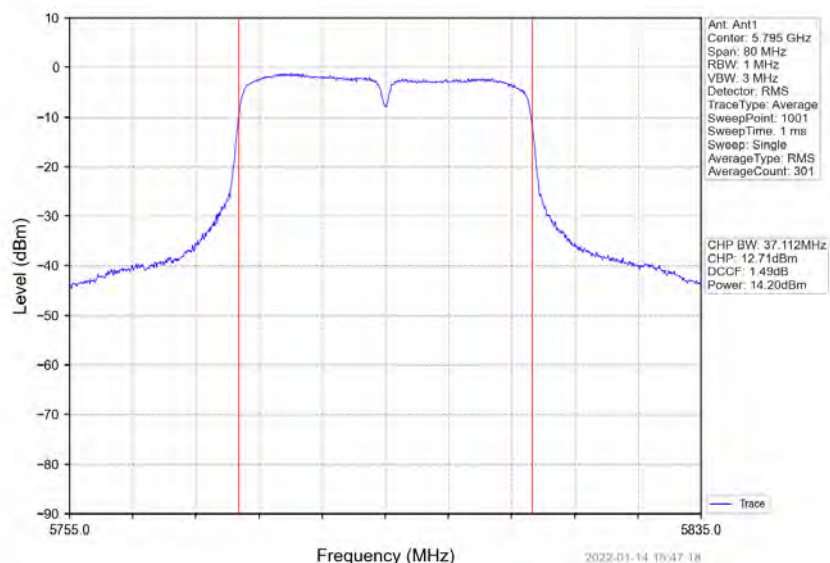
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802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT20) LCH 5180MHz Ant1 NTN



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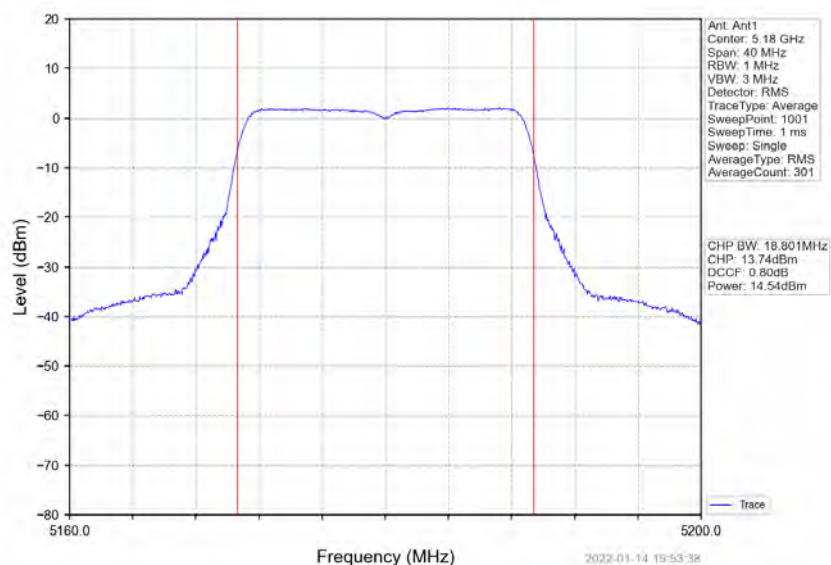
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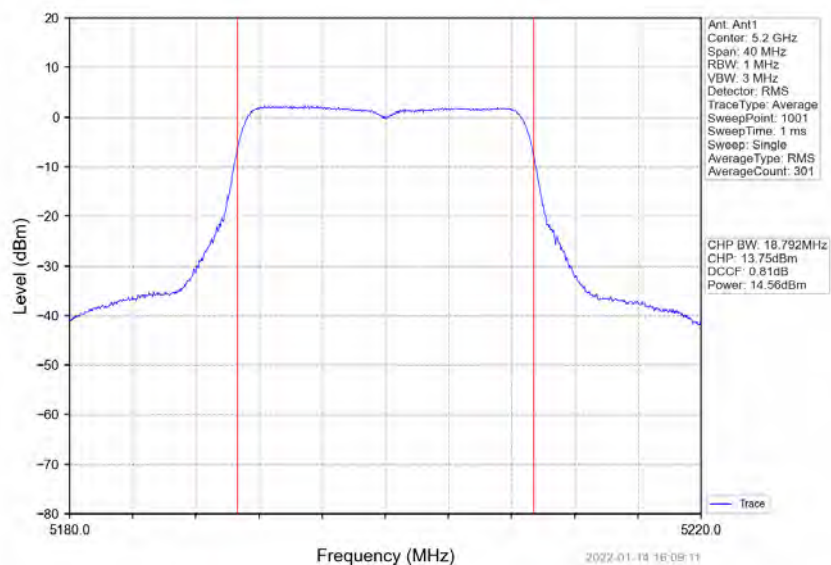
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802.11ac(VHT20) MCH 5200MHz Ant1 NTN



802.11ac(VHT20) HCH 5240MHz Ant1 NTN



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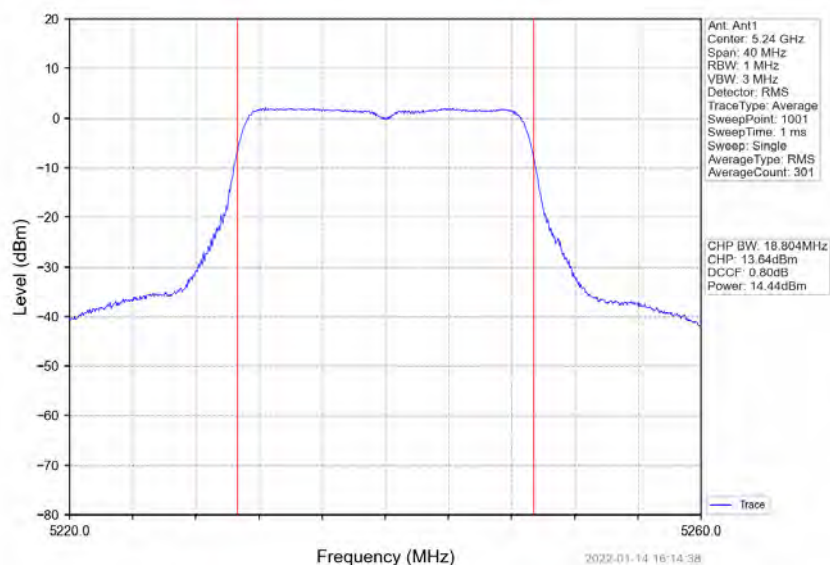
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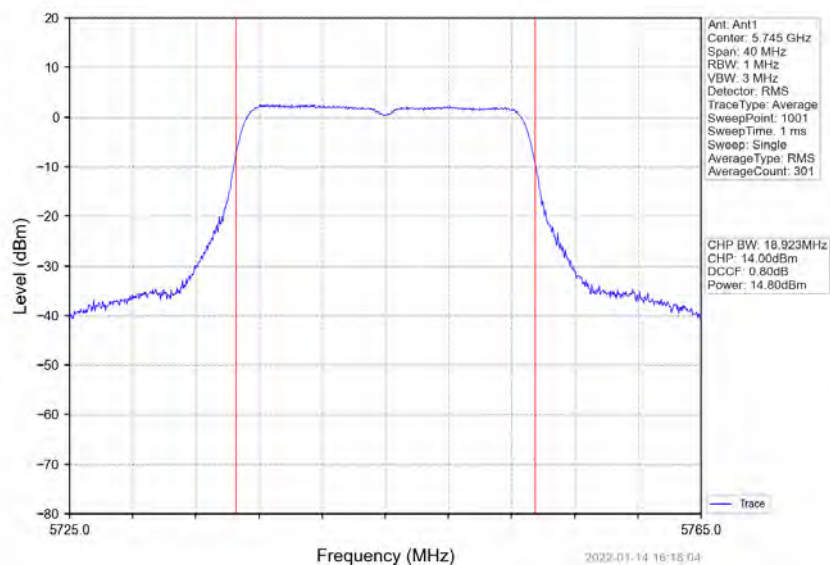
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802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) MCH 5785MHz Ant1 NTN



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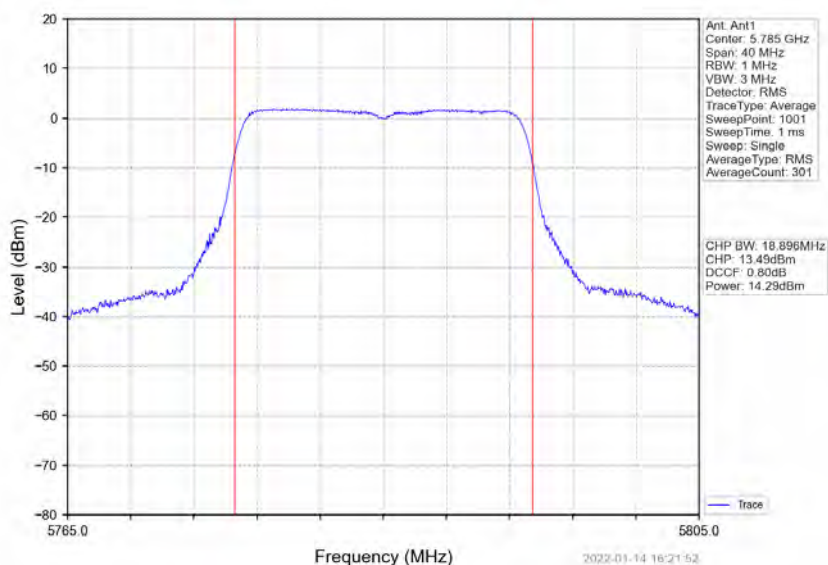
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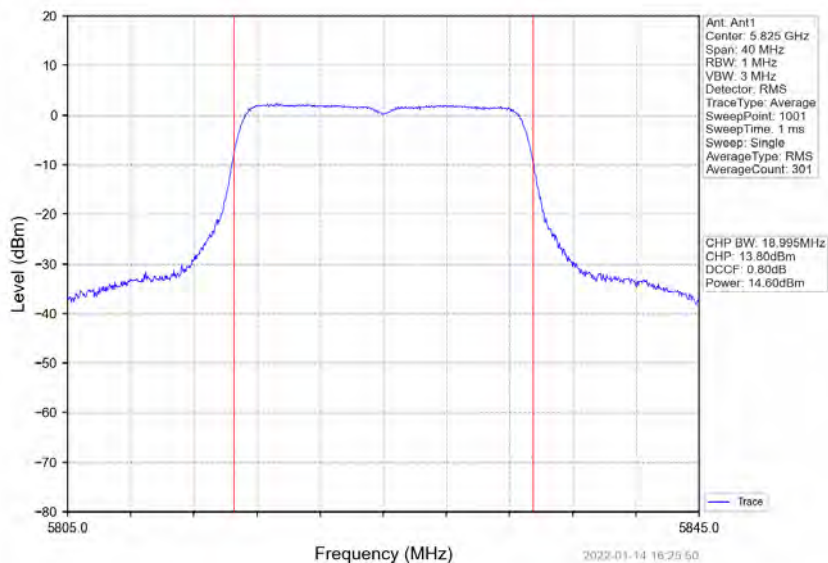
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802.11ac(VHT20) HCH 5825MHz Ant1 NTN



802.11ac(VHT40) LCH 5190MHz Ant1 NTN



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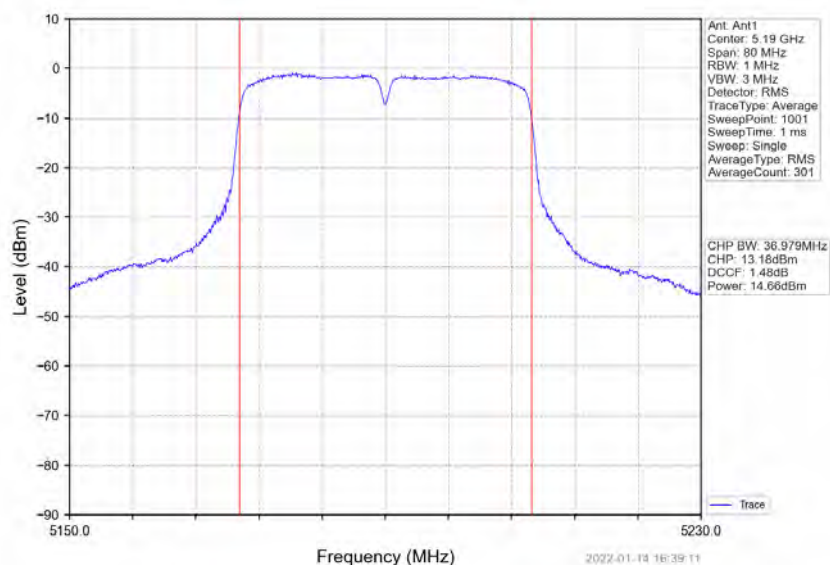
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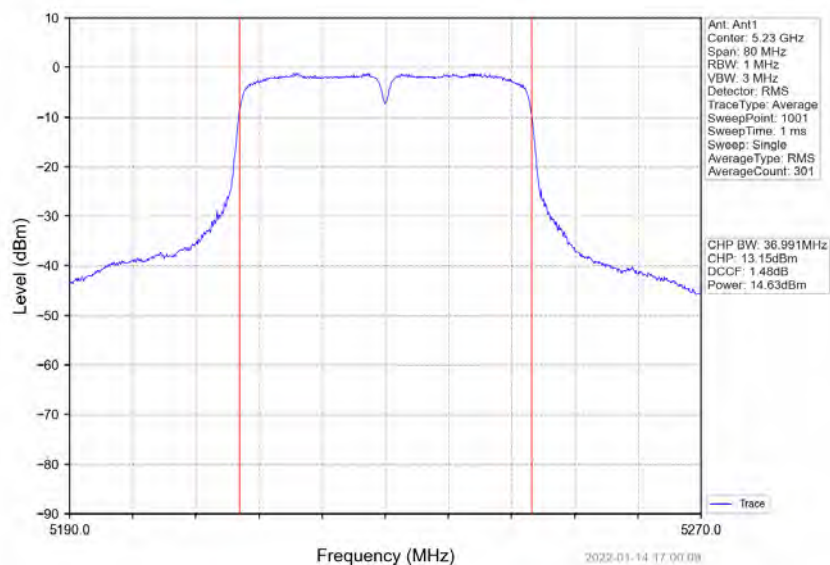
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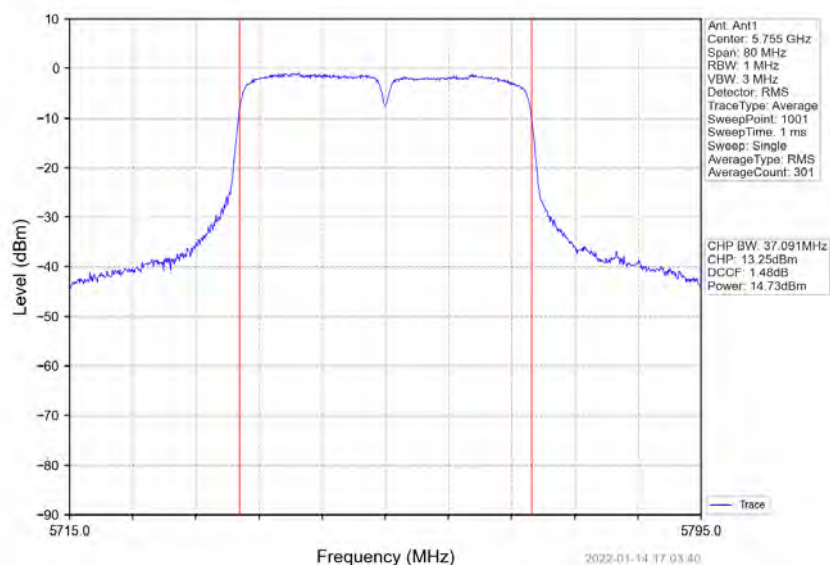
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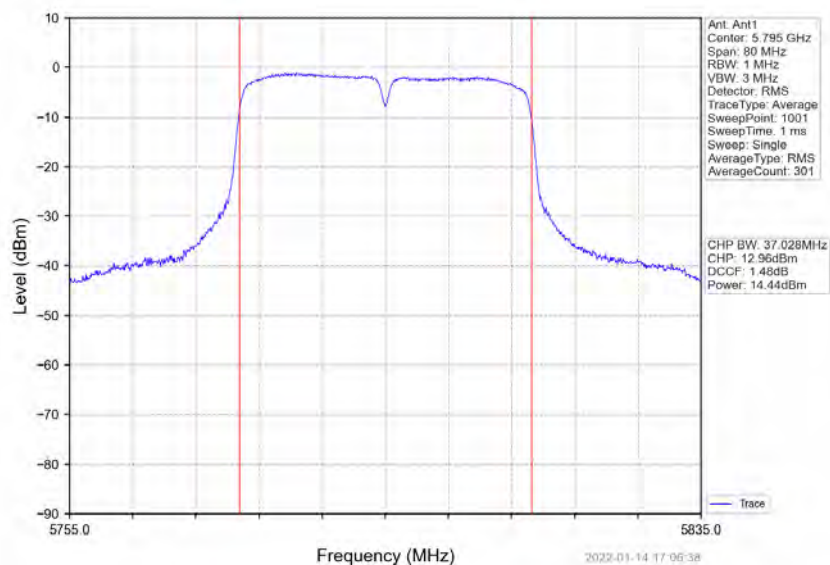
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN

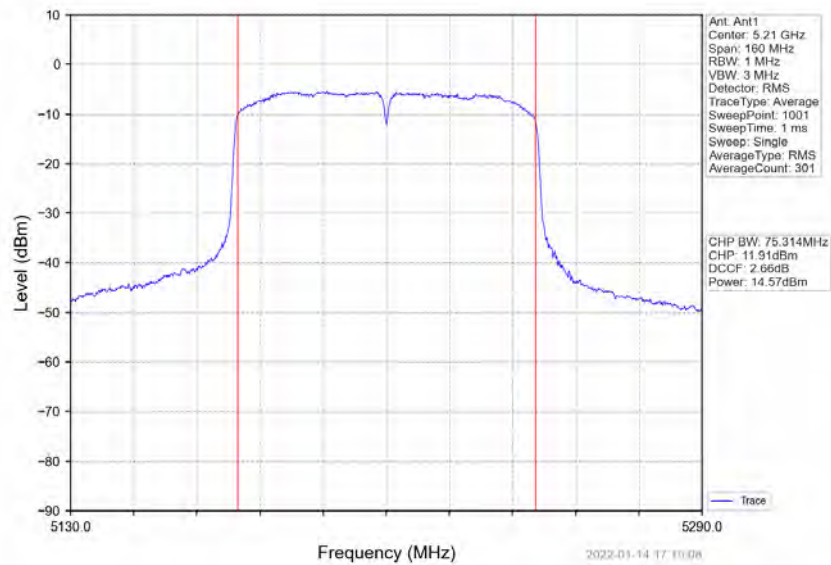


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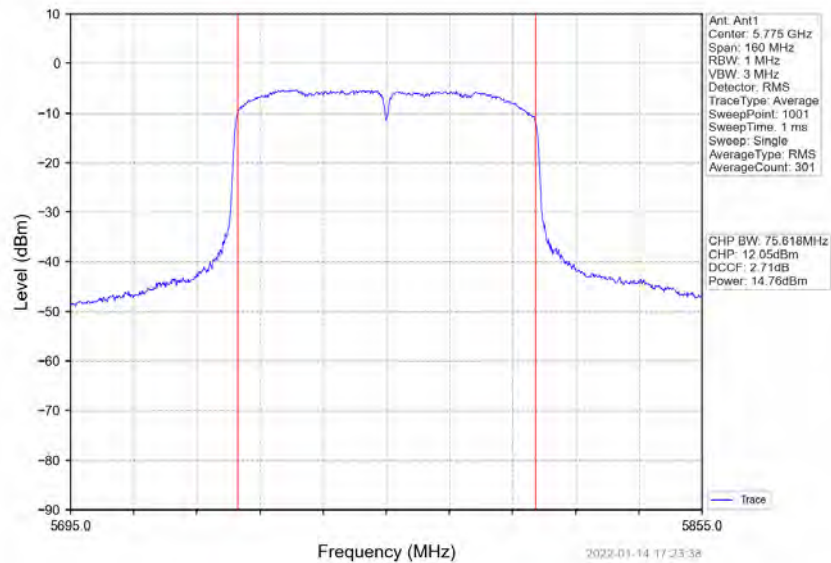
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802.11ac(VHT80) MCH 5775MHz Ant1 NTNv



4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result



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Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	3.20	<=11	Pass
		5200	3.15	<=11	Pass
		5240	3.33	<=11	Pass
802.11n (HT20)	SISO	5180	2.78	<=11	Pass
		5200	2.80	<=11	Pass
		5240	2.91	<=11	Pass
802.11n (HT40)	SISO	5190	0.41	<=11	Pass
		5230	0.52	<=11	Pass
802.11ac (VHT20)	SISO	5180	3.04	<=11	Pass
		5200	2.96	<=11	Pass
		5240	2.75	<=11	Pass
802.11ac (VHT40)	SISO	5190	0.41	<=11	Pass
		5230	0.58	<=11	Pass
802.11ac (VHT80)	SISO	5210	-2.48	<=11	Pass

Note1: Antenna Gain: Ant1: -3.79dBi;

Mode	TX Type	Frequency (MHz)	Maximum E.I.R.PSD (dBm/MHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	-0.59	<=10	Pass
		5200	-0.64	<=10	Pass
		5240	-0.46	<=10	Pass
802.11n (HT20)	SISO	5180	-1.01	<=10	Pass
		5200	-0.99	<=10	Pass
		5240	-0.88	<=10	Pass
802.11n (HT40)	SISO	5190	-3.38	<=10	Pass
		5230	-3.27	<=10	Pass
802.11ac (VHT20)	SISO	5180	-0.75	<=10	Pass
		5200	-0.83	<=10	Pass
		5240	-1.04	<=10	Pass
802.11ac (VHT40)	SISO	5190	-3.38	<=10	Pass
		5230	-3.21	<=10	Pass
802.11ac (VHT80)	SISO	5210	-6.27	<=10	Pass

Note1: Antenna Gain: Ant1: -3.79dBi;
Note: E.I.R.PSD = Measured PSD + Antenna Gain



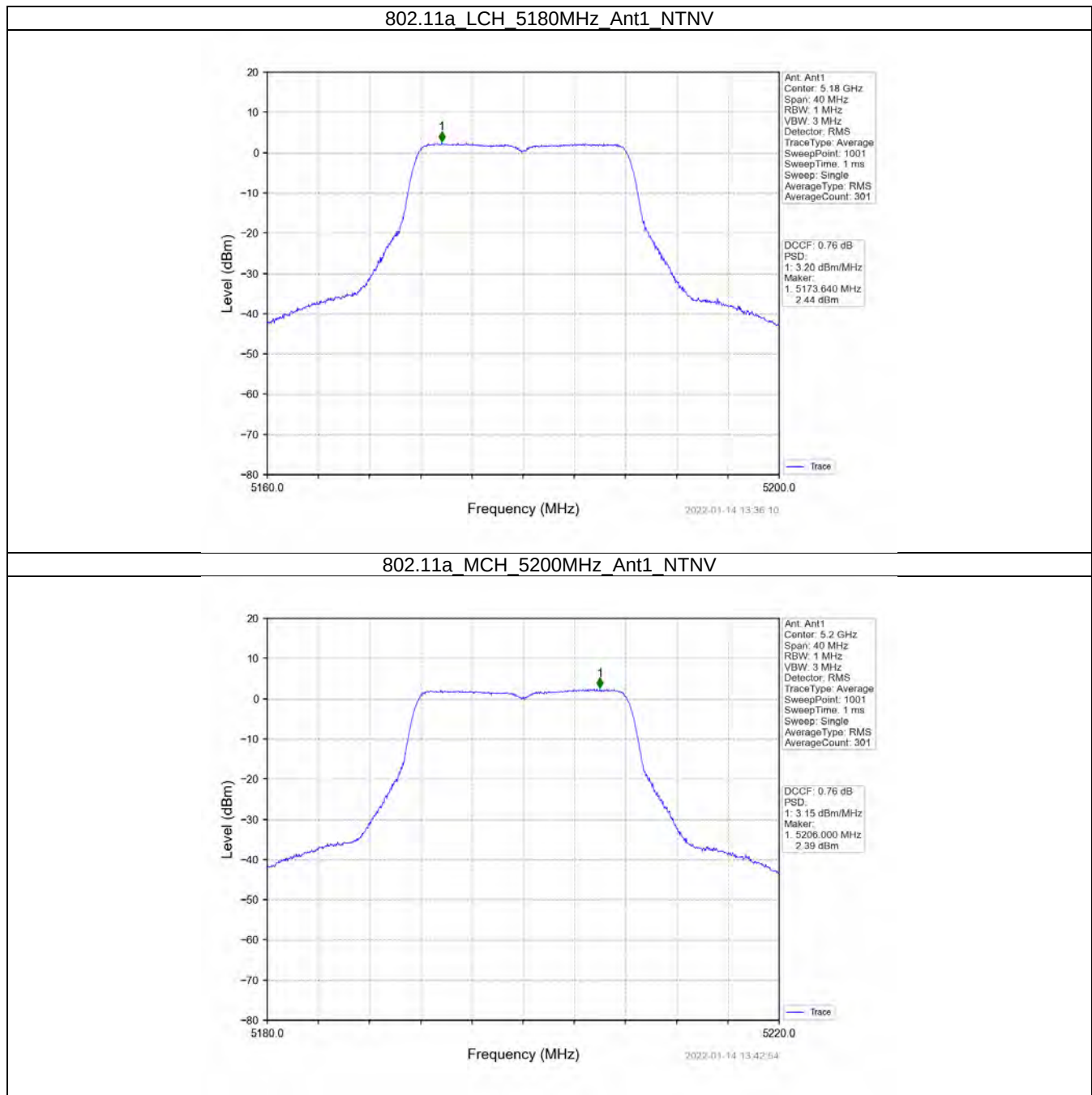
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4.1.2 Test Graph



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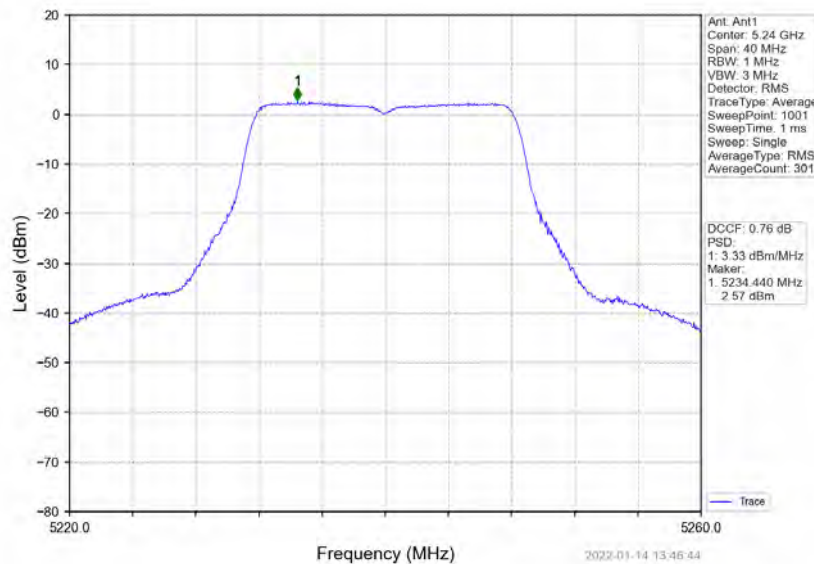
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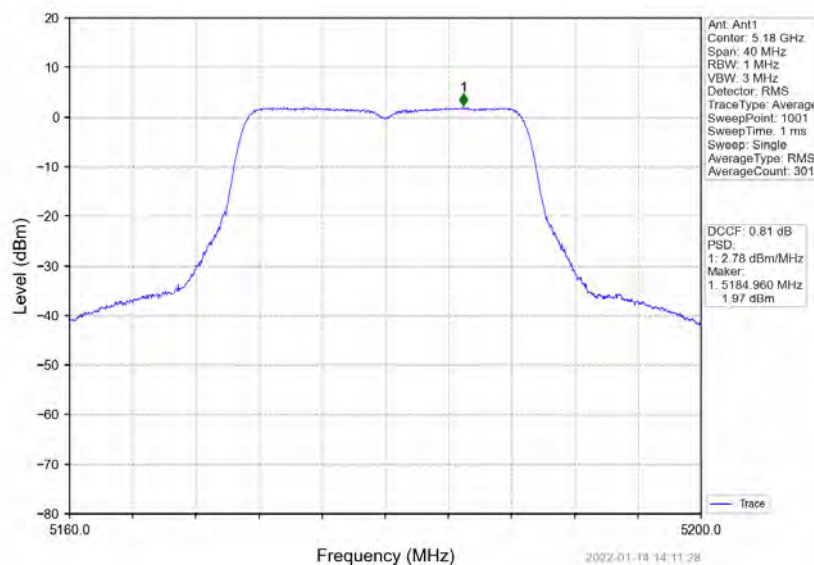
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802.11a HCH 5240MHz Ant1 NTN



802.11n(HT20) LCH 5180MHz Ant1 NTN



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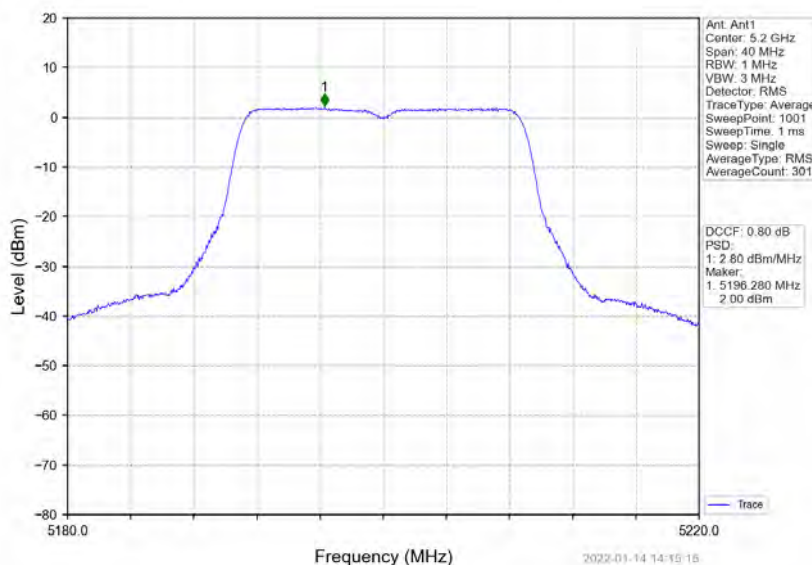
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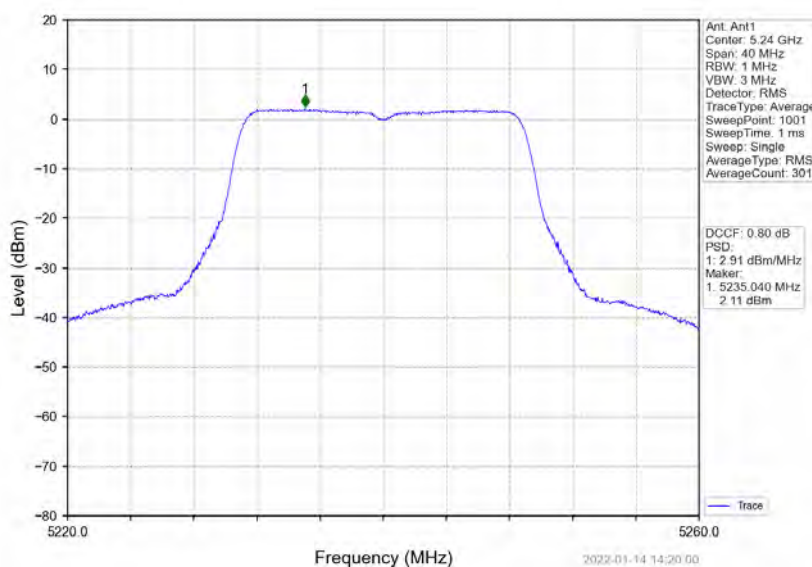
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802.11n(HT20) MCH 5200MHz Ant1 NTN



802.11n(HT20) HCH 5240MHz Ant1 NTN



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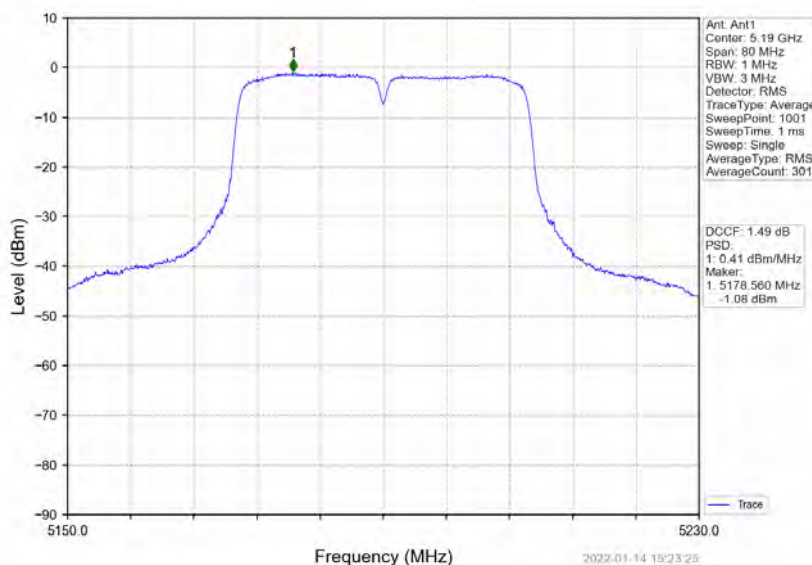
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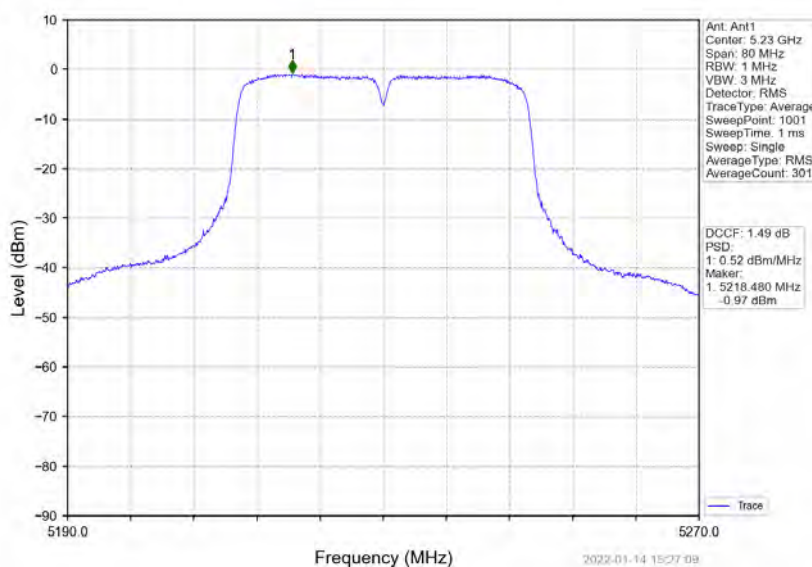
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802.11n(HT40) LCH 5190MHz Ant1 NTN



802.11n(HT40) HCH 5230MHz Ant1 NTN



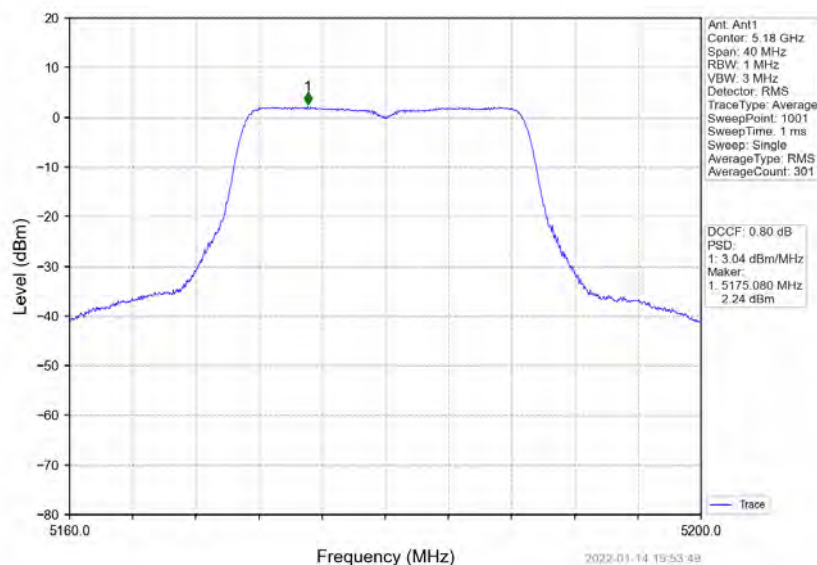
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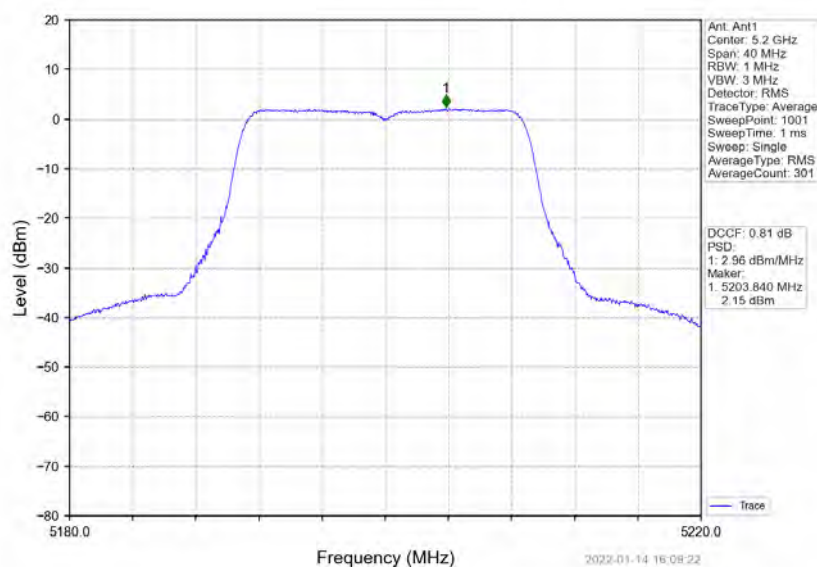
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802.11ac(VHT20) LCH 5180MHz Ant1 NTV



802.11ac(VHT20) MCH 5200MHz Ant1 NTV



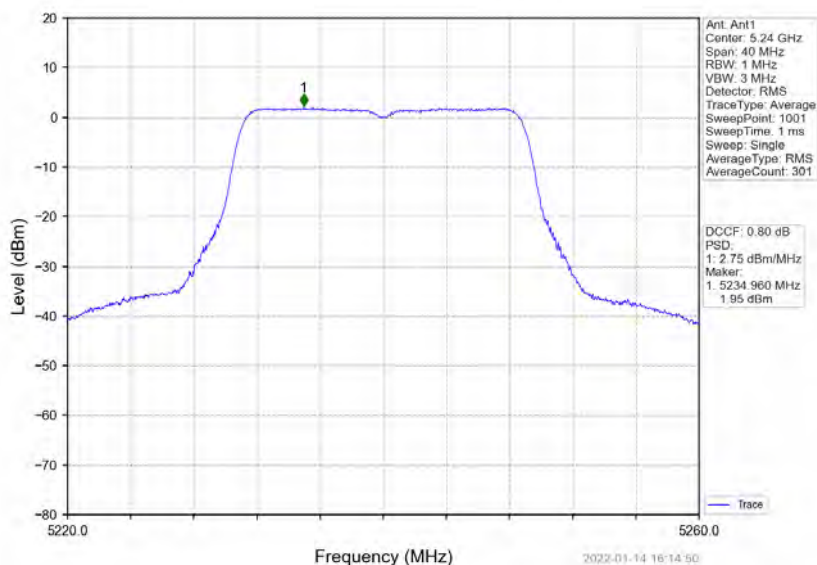
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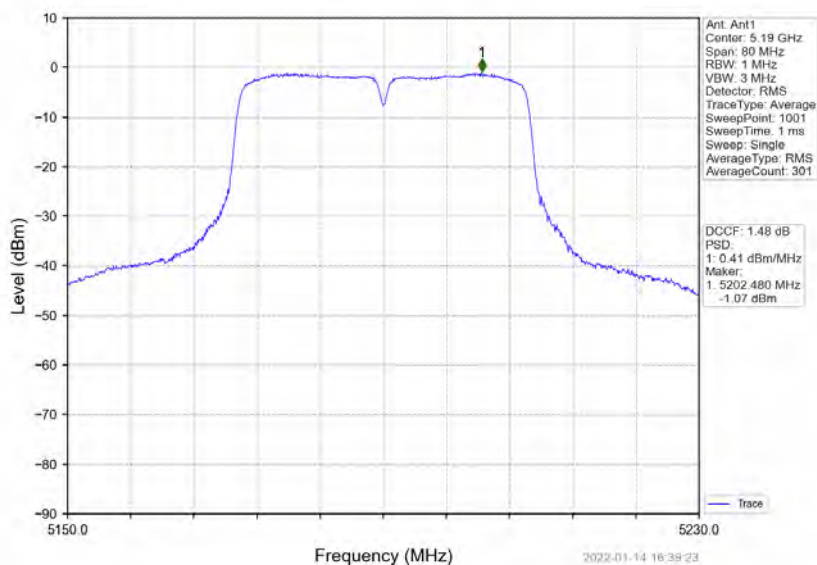
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802.11ac(VHT20) HCH 5240MHz Ant1 NTV



802.11ac(VHT40) LCH 5190MHz Ant1 NTV



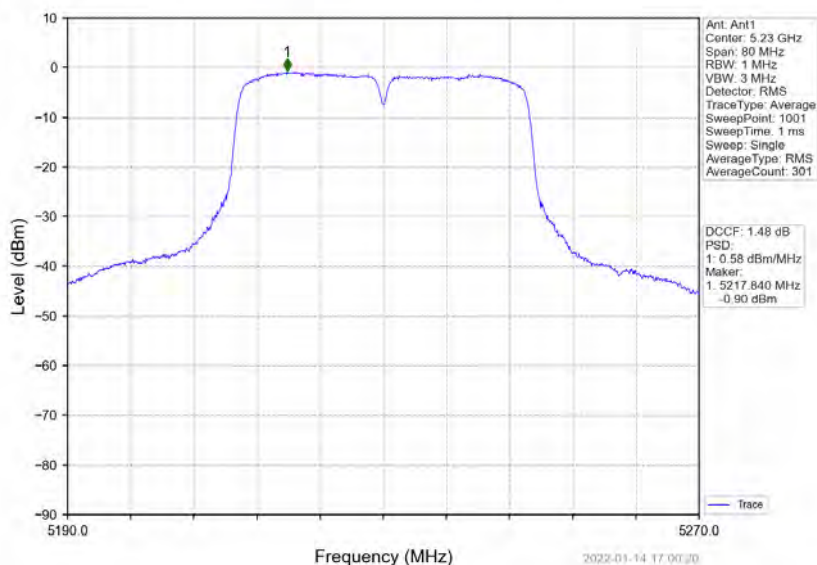
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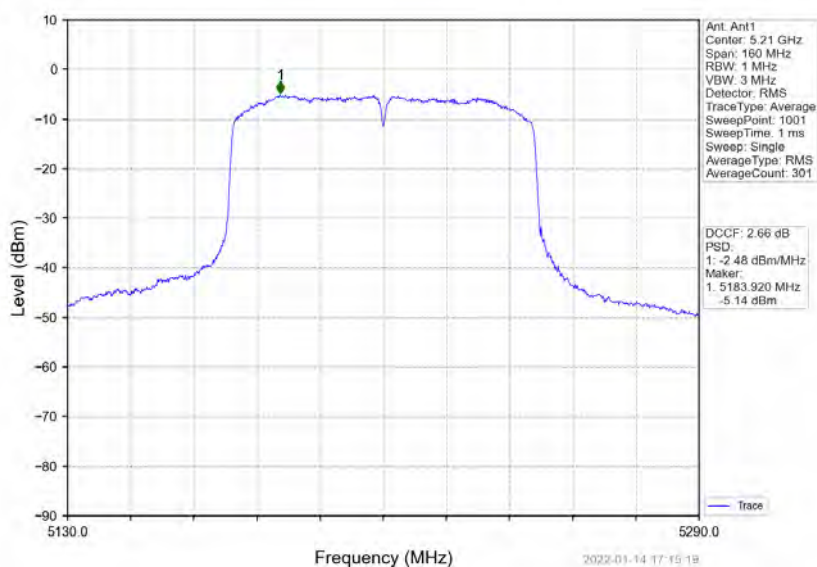
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802.11ac(VHT40) HCH 5230MHz Ant1 NTV



802.11ac(VHT80) MCH 5210MHz Ant1 NTV



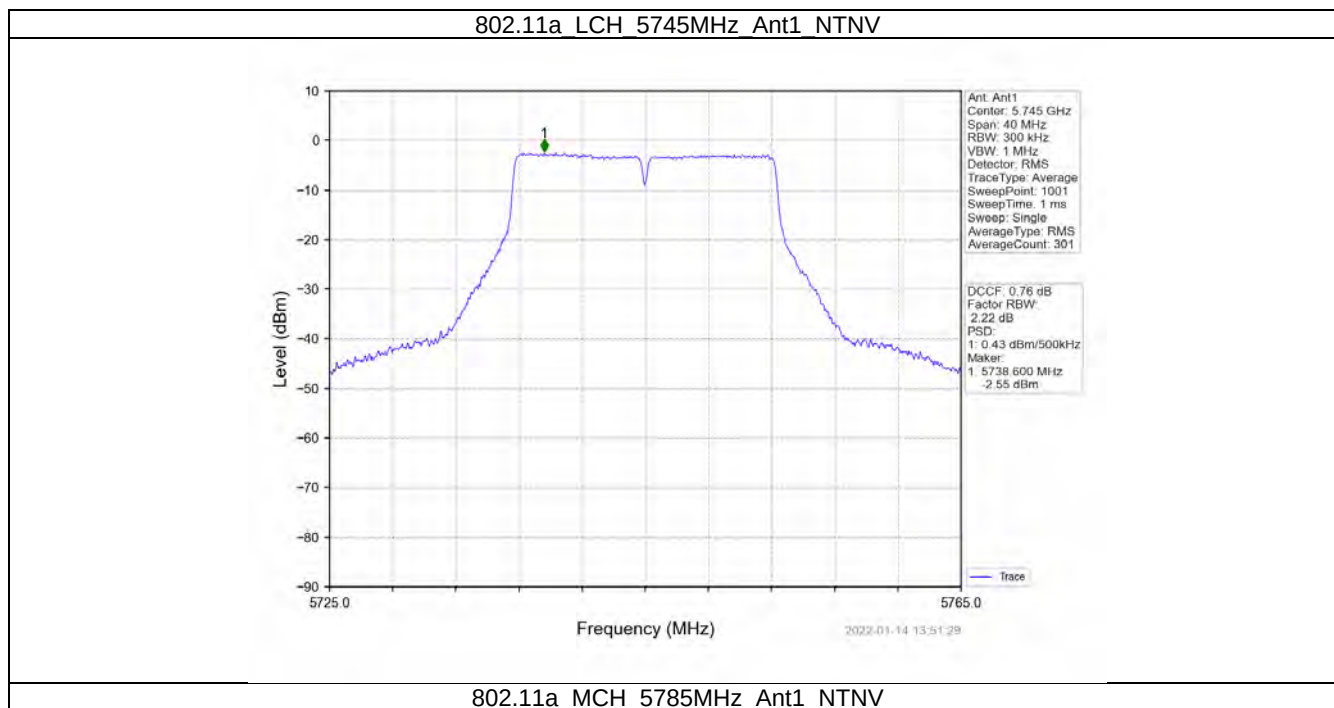
4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5745	0.43	<=30	Pass
		5785	0.13	<=30	Pass
		5825	0.45	<=30	Pass
802.11n (HT20)	SISO	5745	0.44	<=30	Pass
		5785	-0.07	<=30	Pass
		5825	0.21	<=30	Pass
802.11n (HT40)	SISO	5755	-2.60	<=30	Pass
		5795	-2.38	<=30	Pass
802.11ac (VHT20)	SISO	5745	0.62	<=30	Pass
		5785	-0.06	<=30	Pass
		5825	0.04	<=30	Pass
802.11ac (VHT40)	SISO	5755	-2.48	<=30	Pass
		5795	-2.76	<=30	Pass
802.11ac (VHT80)	SISO	5775	-5.23	<=30	Pass

Note1: Antenna Gain: Ant1: -3.98dBi;

4.2.2 Test Graph



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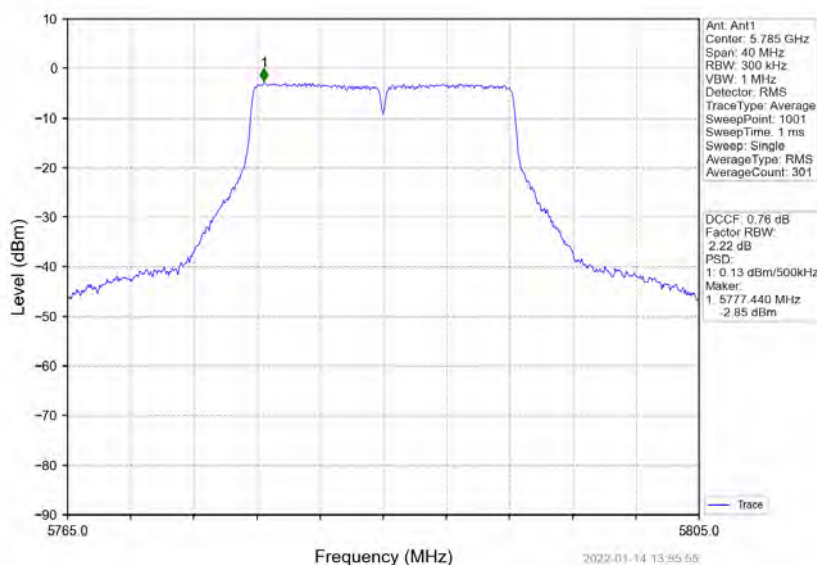
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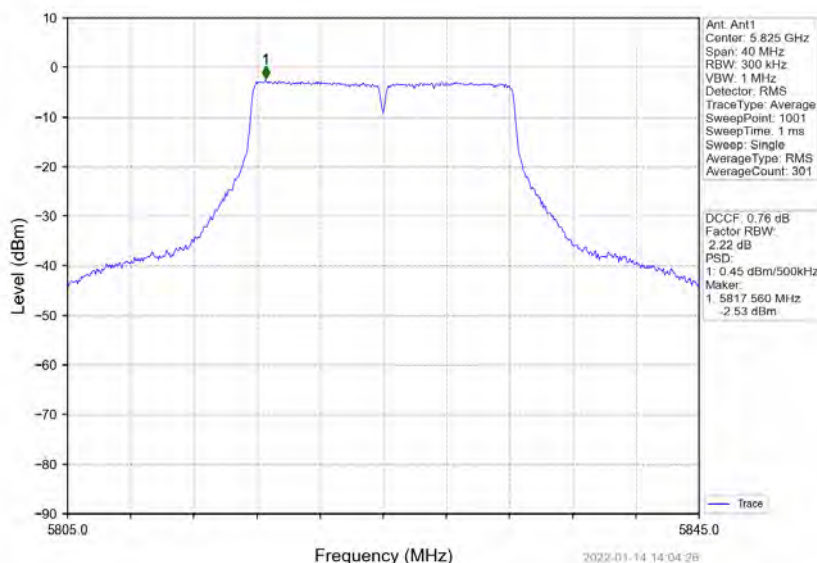
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

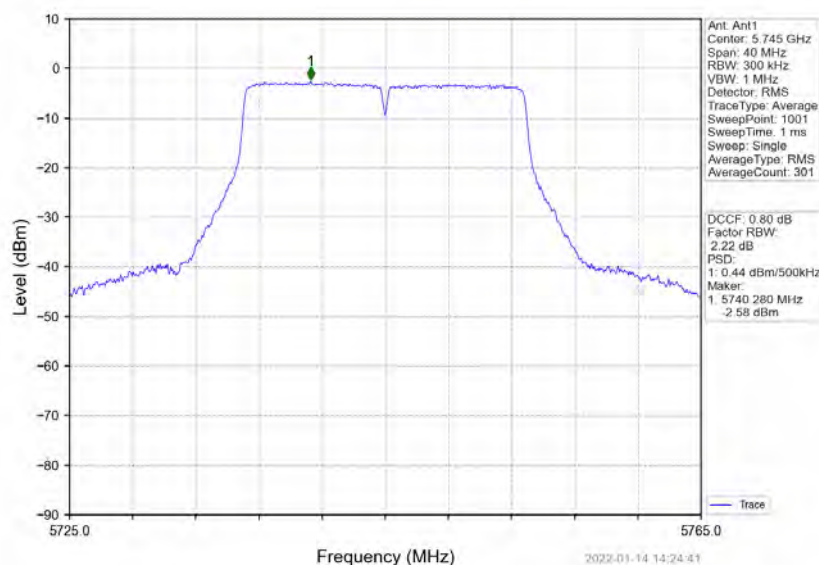


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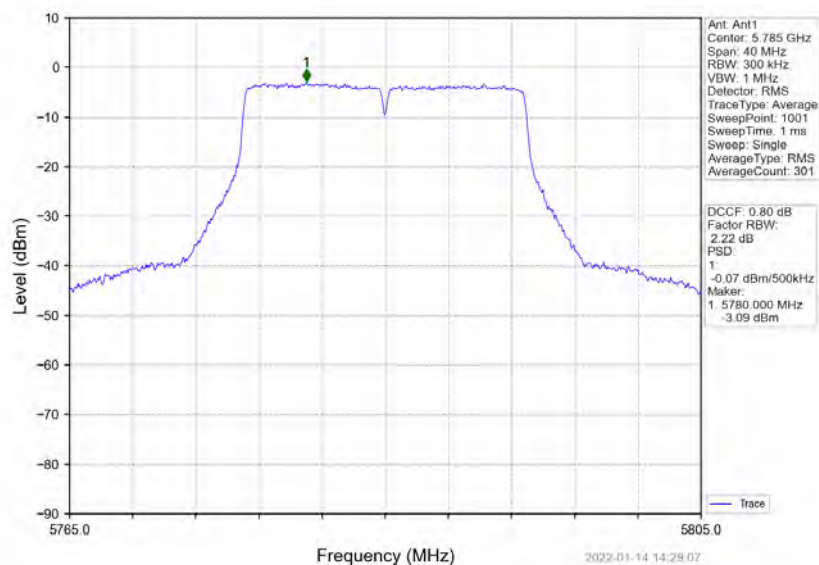
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802.11n(HT20) MCH 5785MHz Ant1 NTNv



802.11n(HT20) HCH 5825MHz Ant1 NTNv



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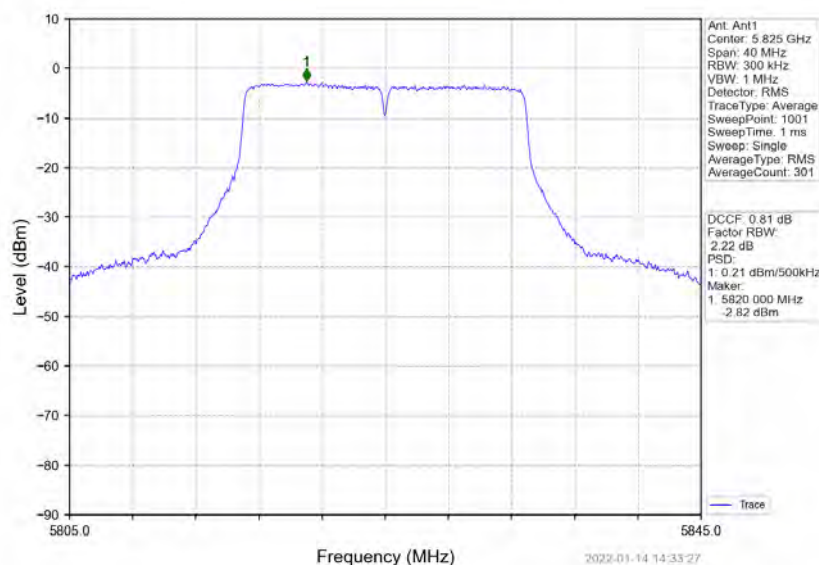
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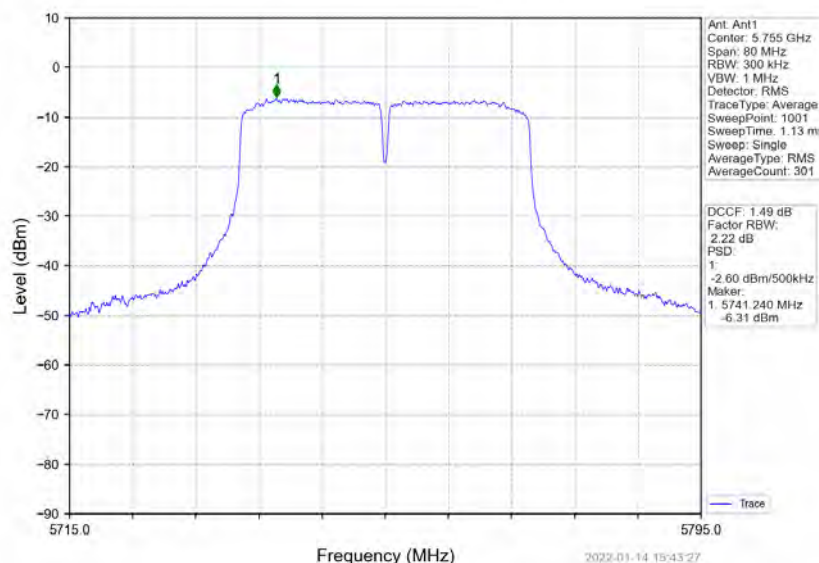
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802.11n(HT40) LCH 5755MHz Ant1 NTV



802.11n(HT40) HCH 5795MHz Ant1 NTV

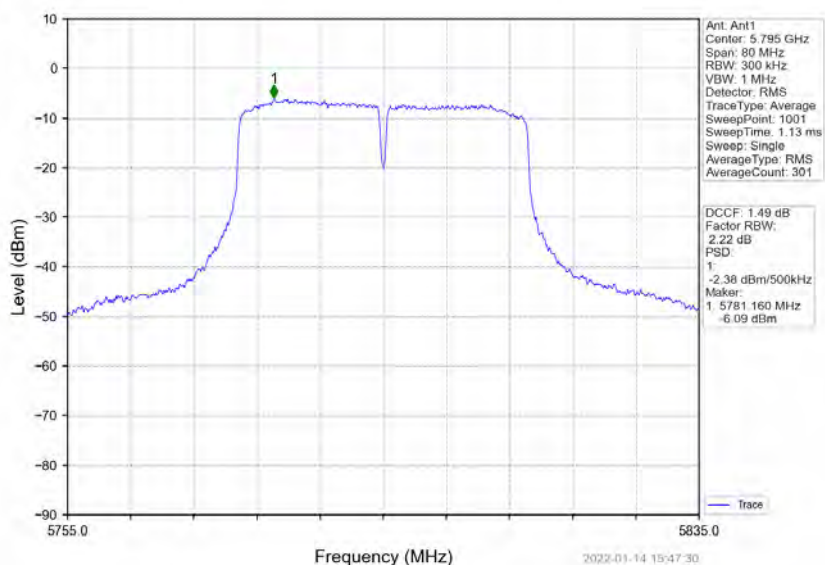


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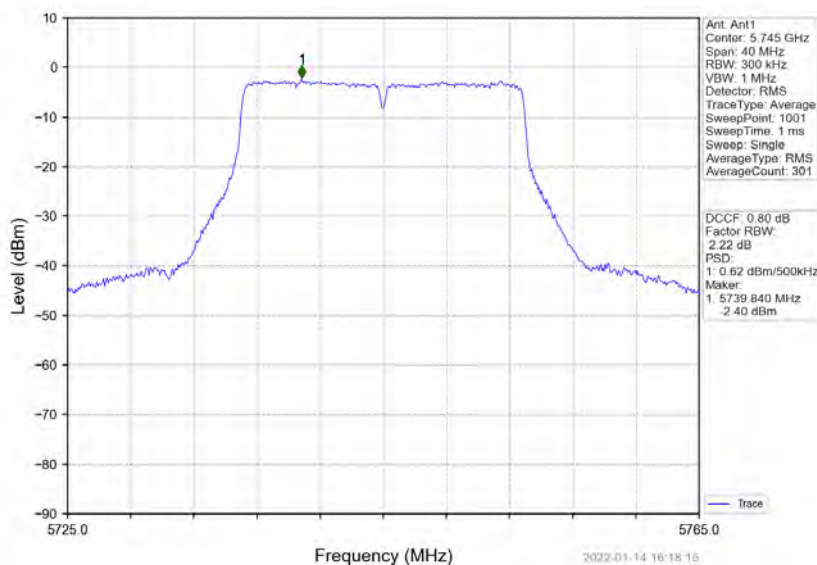
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802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) MCH 5785MHz Ant1 NTN



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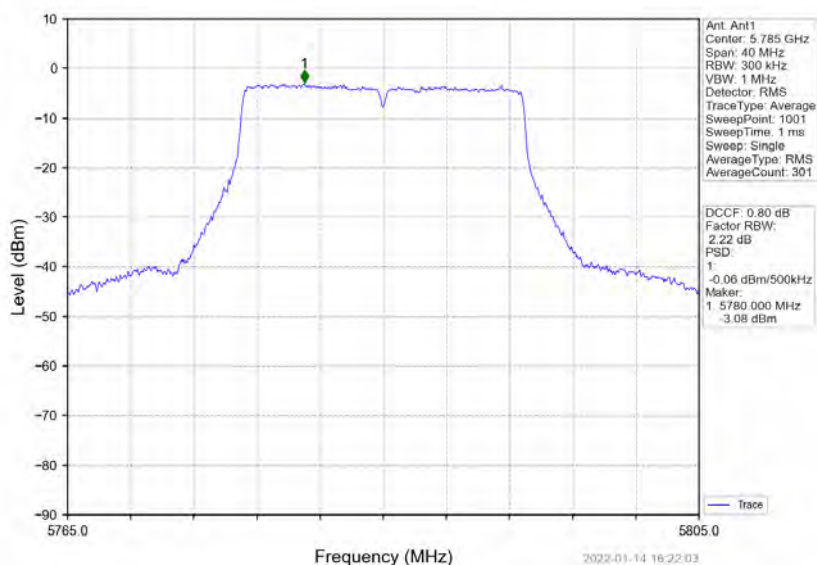
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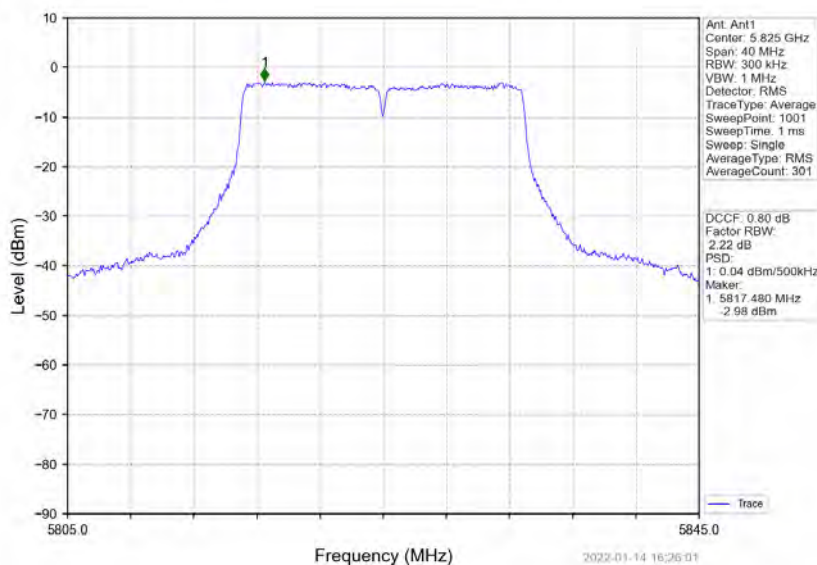
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802.11ac(VHT20) HCH 5825MHz Ant1 NTN



802.11ac(VHT40) LCH 5755MHz Ant1 NTN



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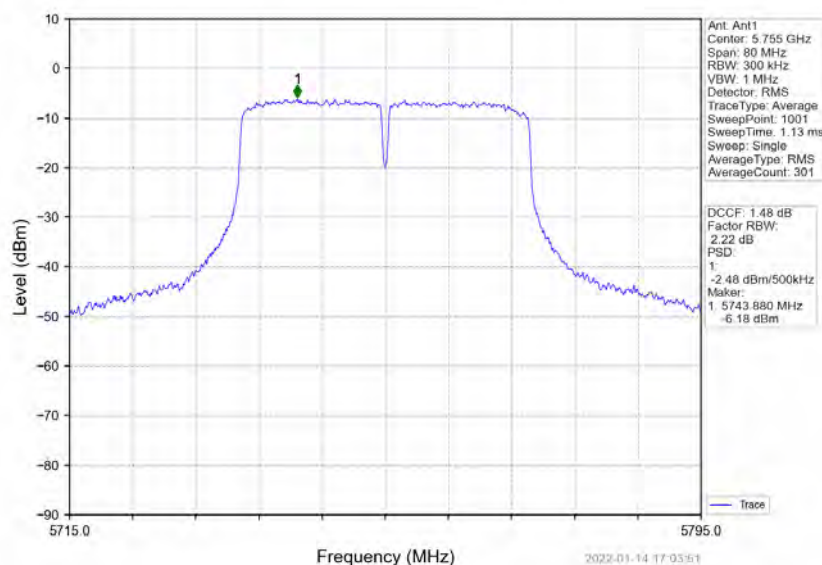
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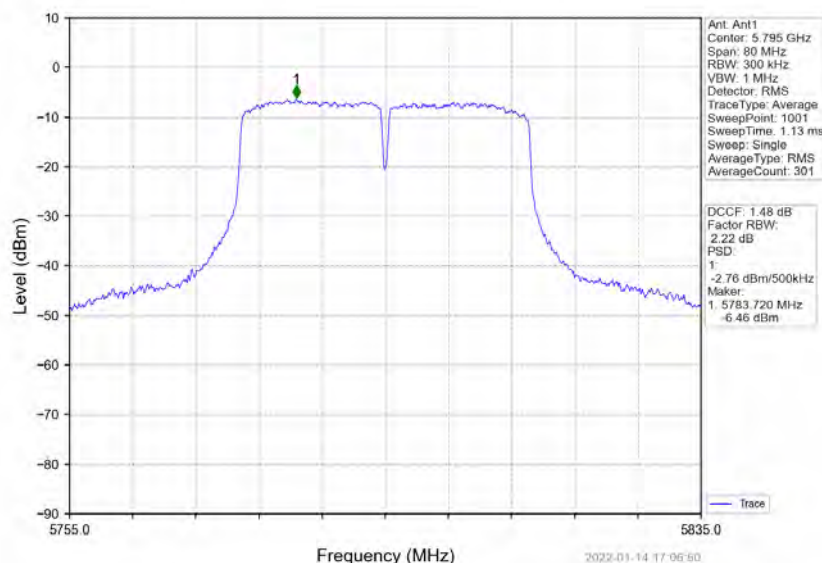
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802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



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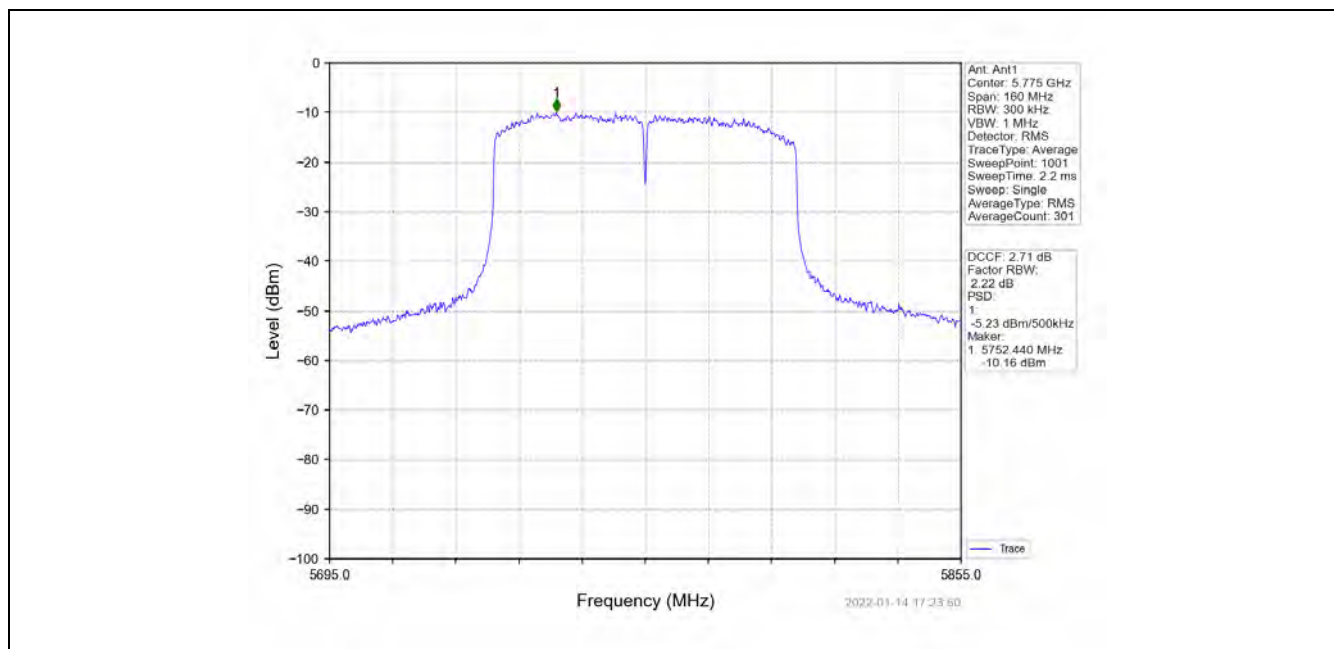
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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5179.960	5150 to 5250	Pass
				120	5179.940	5150 to 5250	Pass
				138	5179.980	5150 to 5250	Pass
			-30	120	5180.000	5150 to 5250	Pass
			-20	120	5179.980	5150 to 5250	Pass
			-10	120	5179.940	5150 to 5250	Pass
			0	120	5179.980	5150 to 5250	Pass
			10	120	5179.940	5150 to 5250	Pass
			30	120	5179.900	5150 to 5250	Pass
			40	120	5179.980	5150 to 5250	Pass
		5200	20	102	5199.980	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				138	5199.980	5150 to 5250	Pass
			-30	120	5199.960	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5199.980	5150 to 5250	Pass
			0	120	5199.940	5150 to 5250	Pass
			10	120	5199.920	5150 to 5250	Pass
			30	120	5199.940	5150 to 5250	Pass



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		5240	40	120	5199.940	5150 to 5250	Pass
			50	120	5199.980	5150 to 5250	Pass
			20	102	5239.980	5150 to 5250	Pass
				120	5239.980	5150 to 5250	Pass
				138	5239.920	5150 to 5250	Pass
			-30	120	5239.920	5150 to 5250	Pass
			-20	120	5239.920	5150 to 5250	Pass
			-10	120	5240.000	5150 to 5250	Pass
			0	120	5239.960	5150 to 5250	Pass
			10	120	5239.980	5150 to 5250	Pass
			30	120	5240.060	5150 to 5250	Pass
			40	120	5240.000	5150 to 5250	Pass
			50	120	5239.920	5150 to 5250	Pass
		5745	20	102	5744.940	5725 to 5850	Pass
				120	5744.900	5725 to 5850	Pass
				138	5744.940	5725 to 5850	Pass
			-30	120	5744.980	5725 to 5850	Pass
			-20	120	5744.980	5725 to 5850	Pass
			-10	120	5744.980	5725 to 5850	Pass
			0	120	5744.960	5725 to 5850	Pass
			10	120	5744.960	5725 to 5850	Pass
			30	120	5744.960	5725 to 5850	Pass
			40	120	5744.940	5725 to 5850	Pass
			50	120	5744.980	5725 to 5850	Pass
		5785	20	102	5784.920	5725 to 5850	Pass
				120	5784.980	5725 to 5850	Pass
				138	5784.960	5725 to 5850	Pass
			-30	120	5784.940	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass
			-10	120	5784.980	5725 to 5850	Pass
			0	120	5785.000	5725 to 5850	Pass
			10	120	5784.940	5725 to 5850	Pass
			30	120	5784.940	5725 to 5850	Pass
			40	120	5784.880	5725 to 5850	Pass
			50	120	5784.960	5725 to 5850	Pass
		5825	20	102	5824.980	5725 to 5850	Pass
				120	5825.020	5725 to 5850	Pass
				138	5824.980	5725 to 5850	Pass
			-30	120	5824.920	5725 to 5850	Pass
			-20	120	5824.940	5725 to 5850	Pass
			-10	120	5824.940	5725 to 5850	Pass
			0	120	5824.980	5725 to 5850	Pass
			10	120	5824.940	5725 to 5850	Pass
			30	120	5824.960	5725 to 5850	Pass
			40	120	5824.960	5725 to 5850	Pass
			50	120	5825.020	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	102	5180.000	5150 to 5250	Pass
				120	5179.960	5150 to 5250	Pass
				138	5180.000	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5179.980	5150 to 5250	Pass
			-10	120	5180.040	5150 to 5250	Pass
			0	120	5179.980	5150 to 5250	Pass
			10	120	5180.040	5150 to 5250	Pass
			30	120	5180.000	5150 to 5250	Pass



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			40	120	5179.920	5150 to 5250	Pass
			50	120	5179.980	5150 to 5250	Pass
		5200	20	102	5199.900	5150 to 5250	Pass
				120	5199.900	5150 to 5250	Pass
				138	5199.960	5150 to 5250	Pass
			-30	120	5199.980	5150 to 5250	Pass
			-20	120	5200.000	5150 to 5250	Pass
			-10	120	5200.020	5150 to 5250	Pass
			0	120	5200.000	5150 to 5250	Pass
			10	120	5199.980	5150 to 5250	Pass
			30	120	5199.960	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5199.940	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.000	5150 to 5250	Pass
				138	5239.980	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
			-20	120	5239.960	5150 to 5250	Pass
			-10	120	5239.960	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5240.040	5150 to 5250	Pass
			30	120	5239.980	5150 to 5250	Pass
			40	120	5239.960	5150 to 5250	Pass
			50	120	5239.980	5150 to 5250	Pass
		5745	20	102	5744.980	5725 to 5850	Pass
				120	5744.980	5725 to 5850	Pass
				138	5745.000	5725 to 5850	Pass
			-30	120	5745.000	5725 to 5850	Pass
			-20	120	5744.940	5725 to 5850	Pass
			-10	120	5744.940	5725 to 5850	Pass
			0	120	5744.960	5725 to 5850	Pass
			10	120	5744.940	5725 to 5850	Pass
			30	120	5744.960	5725 to 5850	Pass
			40	120	5744.980	5725 to 5850	Pass
			50	120	5744.940	5725 to 5850	Pass
		5785	20	102	5784.960	5725 to 5850	Pass
				120	5784.980	5725 to 5850	Pass
				138	5784.980	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
			-20	120	5784.920	5725 to 5850	Pass
			-10	120	5784.980	5725 to 5850	Pass
			0	120	5784.960	5725 to 5850	Pass
			10	120	5784.960	5725 to 5850	Pass
			30	120	5785.000	5725 to 5850	Pass
			40	120	5784.900	5725 to 5850	Pass
			50	120	5784.980	5725 to 5850	Pass
		5825	20	102	5825.000	5725 to 5850	Pass
				120	5824.960	5725 to 5850	Pass
				138	5824.960	5725 to 5850	Pass
			-30	120	5824.940	5725 to 5850	Pass
			-20	120	5824.960	5725 to 5850	Pass
			-10	120	5824.960	5725 to 5850	Pass
			0	120	5824.940	5725 to 5850	Pass
			10	120	5825.040	5725 to 5850	Pass
			30	120	5824.980	5725 to 5850	Pass



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802.11n (HT40)	SISO	5190	40	120	5824.980	5725 to 5850	Pass
			50	120	5824.980	5725 to 5850	Pass
			20	102	5190.040	5150 to 5250	Pass
				120	5190.000	5150 to 5250	Pass
				138	5189.960	5150 to 5250	Pass
			-30	120	5190.000	5150 to 5250	Pass
			-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.000	5150 to 5250	Pass
			0	120	5190.080	5150 to 5250	Pass
			10	120	5189.960	5150 to 5250	Pass
			30	120	5189.960	5150 to 5250	Pass
			40	120	5189.920	5150 to 5250	Pass
			50	120	5189.960	5150 to 5250	Pass
		5230	20	102	5230.040	5150 to 5250	Pass
				120	5230.000	5150 to 5250	Pass
				138	5230.000	5150 to 5250	Pass
			-30	120	5229.920	5150 to 5250	Pass
			-20	120	5229.920	5150 to 5250	Pass
			-10	120	5229.960	5150 to 5250	Pass
			0	120	5229.960	5150 to 5250	Pass
			10	120	5230.000	5150 to 5250	Pass
			30	120	5229.960	5150 to 5250	Pass
			40	120	5229.960	5150 to 5250	Pass
			50	120	5230.000	5150 to 5250	Pass
		5755	20	102	5754.920	5725 to 5850	Pass
				120	5754.880	5725 to 5850	Pass
				138	5754.960	5725 to 5850	Pass
			-30	120	5754.960	5725 to 5850	Pass
			-20	120	5754.960	5725 to 5850	Pass
			-10	120	5755.000	5725 to 5850	Pass
			0	120	5754.920	5725 to 5850	Pass
			10	120	5755.000	5725 to 5850	Pass
			30	120	5754.960	5725 to 5850	Pass
			40	120	5754.920	5725 to 5850	Pass
			50	120	5754.960	5725 to 5850	Pass
		5795	20	102	5794.960	5725 to 5850	Pass
				120	5795.000	5725 to 5850	Pass
				138	5794.960	5725 to 5850	Pass
			-30	120	5794.960	5725 to 5850	Pass
			-20	120	5794.920	5725 to 5850	Pass
			-10	120	5794.960	5725 to 5850	Pass
			0	120	5795.000	5725 to 5850	Pass
			10	120	5794.960	5725 to 5850	Pass
			30	120	5794.880	5725 to 5850	Pass
			40	120	5794.960	5725 to 5850	Pass
			50	120	5794.920	5725 to 5850	Pass
802.11ac (VHT20)	SISO	5180	20	102	5179.980	5150 to 5250	Pass
				120	5179.900	5150 to 5250	Pass
				138	5179.960	5150 to 5250	Pass
			-30	120	5179.960	5150 to 5250	Pass
			-20	120	5179.960	5150 to 5250	Pass
			-10	120	5179.980	5150 to 5250	Pass
			0	120	5180.000	5150 to 5250	Pass
			10	120	5179.940	5150 to 5250	Pass
			30	120	5179.980	5150 to 5250	Pass



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			40	120	5179.980	5150 to 5250	Pass
			50	120	5179.940	5150 to 5250	Pass
		5200	20	102	5199.980	5150 to 5250	Pass
				120	5199.940	5150 to 5250	Pass
				138	5199.960	5150 to 5250	Pass
			-30	120	5199.960	5150 to 5250	Pass
			-20	120	5199.960	5150 to 5250	Pass
			-10	120	5199.960	5150 to 5250	Pass
			0	120	5199.940	5150 to 5250	Pass
			10	120	5199.940	5150 to 5250	Pass
			30	120	5199.980	5150 to 5250	Pass
			40	120	5200.000	5150 to 5250	Pass
			50	120	5199.960	5150 to 5250	Pass
		5240	20	102	5239.960	5150 to 5250	Pass
				120	5239.960	5150 to 5250	Pass
				138	5239.980	5150 to 5250	Pass
			-30	120	5239.940	5150 to 5250	Pass
			-20	120	5240.000	5150 to 5250	Pass
			-10	120	5239.960	5150 to 5250	Pass
			0	120	5239.940	5150 to 5250	Pass
			10	120	5239.940	5150 to 5250	Pass
			30	120	5239.980	5150 to 5250	Pass
			40	120	5239.960	5150 to 5250	Pass
			50	120	5239.940	5150 to 5250	Pass
		5745	20	102	5744.960	5725 to 5850	Pass
				120	5744.960	5725 to 5850	Pass
				138	5744.920	5725 to 5850	Pass
			-30	120	5744.940	5725 to 5850	Pass
			-20	120	5744.960	5725 to 5850	Pass
			-10	120	5744.900	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5744.960	5725 to 5850	Pass
			30	120	5744.940	5725 to 5850	Pass
			40	120	5744.960	5725 to 5850	Pass
			50	120	5744.940	5725 to 5850	Pass
		5785	20	102	5784.900	5725 to 5850	Pass
				120	5784.940	5725 to 5850	Pass
				138	5784.920	5725 to 5850	Pass
			-30	120	5784.940	5725 to 5850	Pass
			-20	120	5784.900	5725 to 5850	Pass
			-10	120	5784.940	5725 to 5850	Pass
			0	120	5784.960	5725 to 5850	Pass
			10	120	5784.900	5725 to 5850	Pass
			30	120	5784.940	5725 to 5850	Pass
			40	120	5784.940	5725 to 5850	Pass
			50	120	5784.940	5725 to 5850	Pass
		5825	20	102	5824.960	5725 to 5850	Pass
				120	5824.960	5725 to 5850	Pass
				138	5824.940	5725 to 5850	Pass
			-30	120	5824.940	5725 to 5850	Pass
			-20	120	5824.960	5725 to 5850	Pass
			-10	120	5824.940	5725 to 5850	Pass
			0	120	5824.900	5725 to 5850	Pass
			10	120	5824.960	5725 to 5850	Pass
			30	120	5824.980	5725 to 5850	Pass



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			50	120	5824.940	5725 to 5850	Pass
			20	102	5189.960	5150 to 5250	Pass
				120	5189.920	5150 to 5250	Pass
				138	5189.880	5150 to 5250	Pass
			-30	120	5189.960	5150 to 5250	Pass
			-20	120	5190.000	5150 to 5250	Pass
			-10	120	5190.000	5150 to 5250	Pass
			0	120	5189.880	5150 to 5250	Pass
			10	120	5190.000	5150 to 5250	Pass
			30	120	5189.920	5150 to 5250	Pass
			40	120	5189.920	5150 to 5250	Pass
			50	120	5190.000	5150 to 5250	Pass
		5230	20	102	5229.880	5150 to 5250	Pass
				120	5229.960	5150 to 5250	Pass
				138	5229.960	5150 to 5250	Pass
			-30	120	5229.920	5150 to 5250	Pass
			-20	120	5229.960	5150 to 5250	Pass
			-10	120	5229.920	5150 to 5250	Pass
			0	120	5229.920	5150 to 5250	Pass
			10	120	5229.920	5150 to 5250	Pass
			30	120	5230.000	5150 to 5250	Pass
			40	120	5230.000	5150 to 5250	Pass
			50	120	5229.920	5150 to 5250	Pass
		5755	20	102	5754.920	5725 to 5850	Pass
				120	5754.920	5725 to 5850	Pass
				138	5754.920	5725 to 5850	Pass
			-30	120	5754.880	5725 to 5850	Pass
			-20	120	5755.000	5725 to 5850	Pass
			-10	120	5754.920	5725 to 5850	Pass
			0	120	5754.920	5725 to 5850	Pass
			10	120	5754.960	5725 to 5850	Pass
			30	120	5754.920	5725 to 5850	Pass
			40	120	5754.920	5725 to 5850	Pass
			50	120	5754.960	5725 to 5850	Pass
		5795	20	102	5795.000	5725 to 5850	Pass
				120	5794.880	5725 to 5850	Pass
				138	5794.880	5725 to 5850	Pass
			-30	120	5794.920	5725 to 5850	Pass
			-20	120	5794.960	5725 to 5850	Pass
			-10	120	5794.920	5725 to 5850	Pass
			0	120	5794.920	5725 to 5850	Pass
			10	120	5794.920	5725 to 5850	Pass
			30	120	5794.960	5725 to 5850	Pass
			40	120	5794.880	5725 to 5850	Pass
			50	120	5794.960	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5210	20	102	5210.000	5150 to 5250	Pass
				120	5209.850	5150 to 5250	Pass
				138	5209.925	5150 to 5250	Pass
			-30	120	5209.850	5150 to 5250	Pass
			-20	120	5210.000	5150 to 5250	Pass
			-10	120	5210.000	5150 to 5250	Pass
			0	120	5210.000	5150 to 5250	Pass
			10	120	5210.000	5150 to 5250	Pass
			30	120	5210.000	5150 to 5250	Pass
			50	120	5210.000	5150 to 5250	Pass



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			40	120	5209.925	5150 to 5250	Pass
			50	120	5209.925	5150 to 5250	Pass
		5775	20	102	5774.925	5725 to 5850	Pass
				120	5774.925	5725 to 5850	Pass
				138	5774.925	5725 to 5850	Pass
			-30	120	5774.850	5725 to 5850	Pass
			-20	120	5774.850	5725 to 5850	Pass
			-10	120	5774.850	5725 to 5850	Pass
			0	120	5774.850	5725 to 5850	Pass
			10	120	5774.925	5725 to 5850	Pass
			30	120	5774.925	5725 to 5850	Pass
			40	120	5775.000	5725 to 5850	Pass
			50	120	5775.000	5725 to 5850	Pass



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