



Annex for 5G Wi-Fi Band 3

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	5745	1.399	1.457	96.02	0.18	0.03
		5785	1.399	1.458	95.95	0.18	0.03
		5825	1.399	1.457	96.02	0.18	0.03
802.11n (HT20)	SISO	5745	1.311	1.369	95.76	0.19	0.03
		5785	1.311	1.369	95.76	0.19	0.03
		5825	1.311	1.368	95.83	0.18	0.03
802.11n (HT40)	SISO	5755	0.650	0.708	91.81	0.37	0.03
		5795	0.650	0.708	91.81	0.37	0.03
802.11n (HT20)	MIMO	5745	1.311	1.369	95.76	0.19	0.03
		5785	1.311	1.369	95.76	0.19	0.03
		5825	1.311	1.369	95.76	0.19	0.03
802.11n (HT40)	MIMO	5755	0.650	0.708	91.81	0.37	0.03
		5795	0.651	0.709	91.82	0.37	0.03
802.11ac (VHT20)	SISO	5745	0.687	0.745	92.21	0.35	0.03
		5785	0.687	0.745	92.21	0.35	0.04
		5825	0.686	0.744	92.20	0.35	0.04
802.11ac (VHT40)	SISO	5755	0.354	0.412	85.92	0.66	0.00
		5795	0.355	0.412	86.17	0.65	0.00
802.11ac (VHT80)	SISO	5775	0.190	0.248	76.61	1.16	0.07
802.11ac (VHT20)	MIMO	5745	0.687	0.745	92.21	0.35	0.04
		5785	0.688	0.746	92.23	0.35	0.03
		5825	0.687	0.745	92.21	0.35	0.03
802.11ac (VHT40)	MIMO	5755	0.355	0.412	86.17	0.65	0.03
		5795	0.354	0.412	85.92	0.66	0.03
802.11ac (VHT80)	MIMO	5775	0.190	0.248	76.61	1.16	0.07

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	5745	1.399	1.457	96.02	0.18	0.03
		5785	1.399	1.457	96.02	0.18	0.03
		5825	1.399	1.456	96.09	0.17	0.03
802.11n (HT20)	SISO	5745	1.311	1.369	95.76	0.19	0.03
		5785	1.311	1.369	95.76	0.19	0.03
		5825	1.311	1.369	95.76	0.19	0.03
802.11n (HT40)	SISO	5755	0.650	0.708	91.81	0.37	0.03
		5795	0.650	0.708	91.81	0.37	0.03
802.11ac (VHT20)	SISO	5745	0.687	0.745	92.21	0.35	0.03
		5785	0.687	0.745	92.21	0.35	0.04

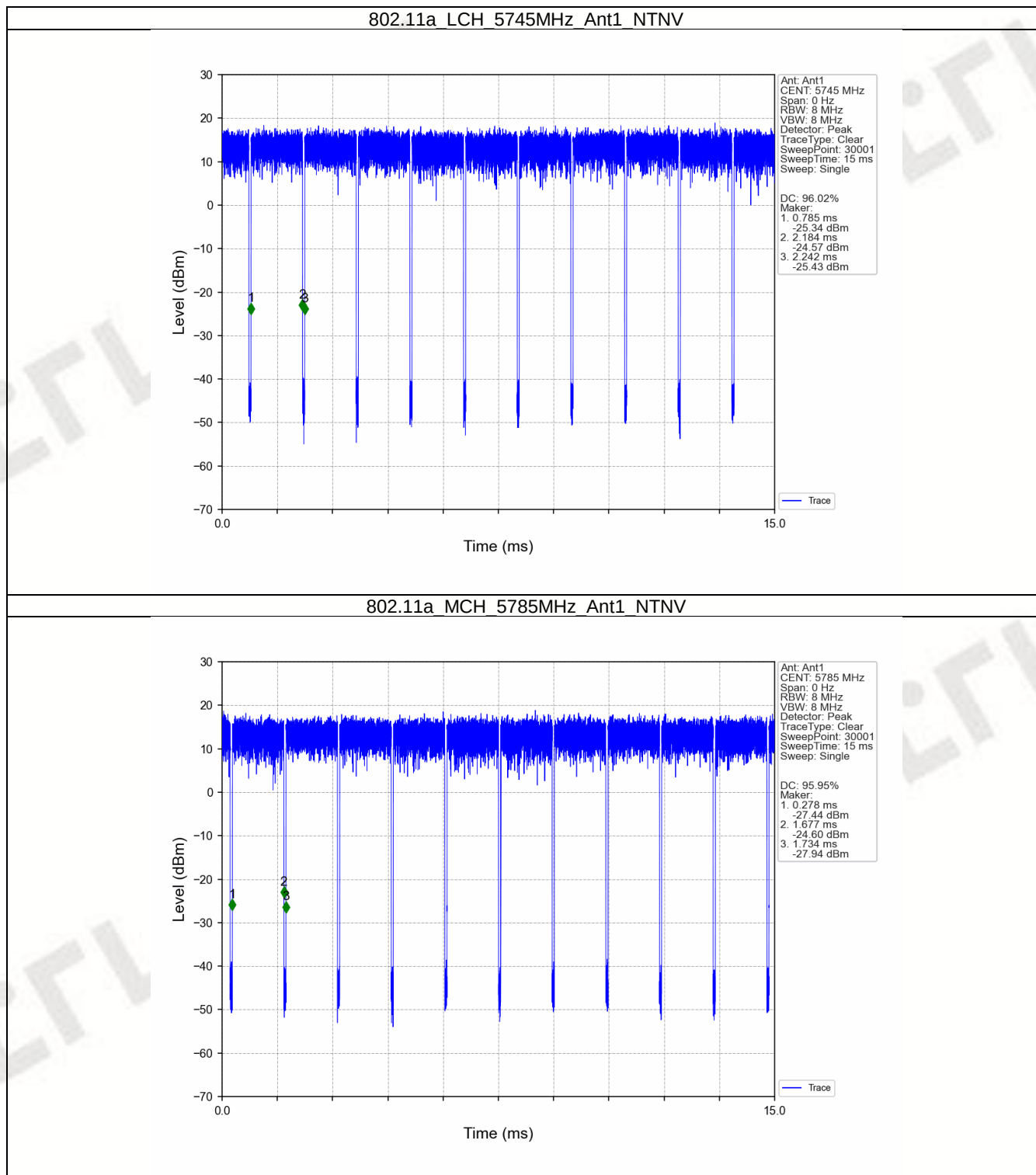
FCCID: 2AYHD-SR01

		5825	0.687	0.745	92.21	0.35	0.04
802.11ac (VHT40)	SISO	5755	0.354	0.412	85.92	0.66	0.03
		5795	0.355	0.412	86.17	0.65	0.00
802.11ac (VHT80)	SISO	5775	0.190	0.248	76.61	1.16	0.05

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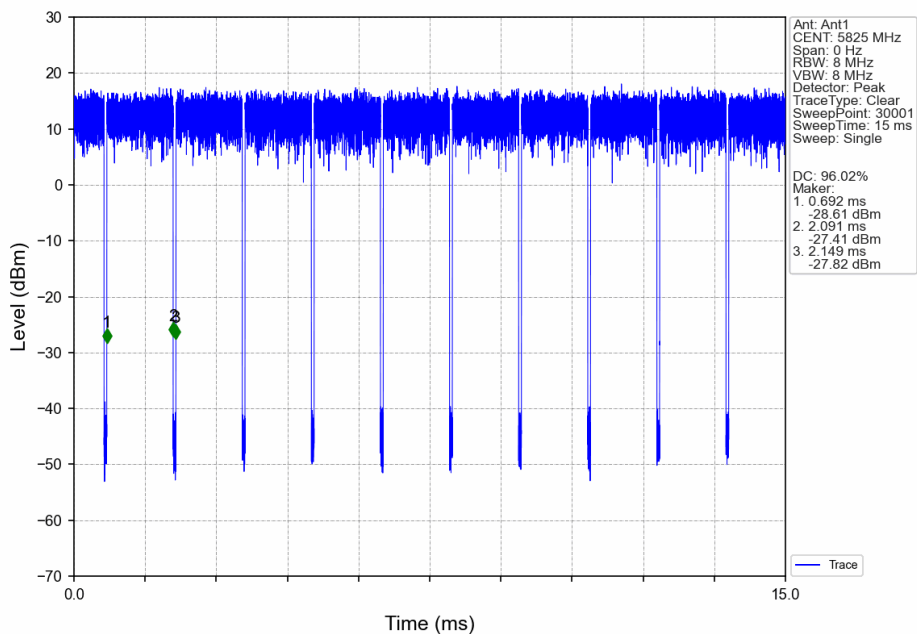
1.2 Test Graph

1.2.1 Ant1

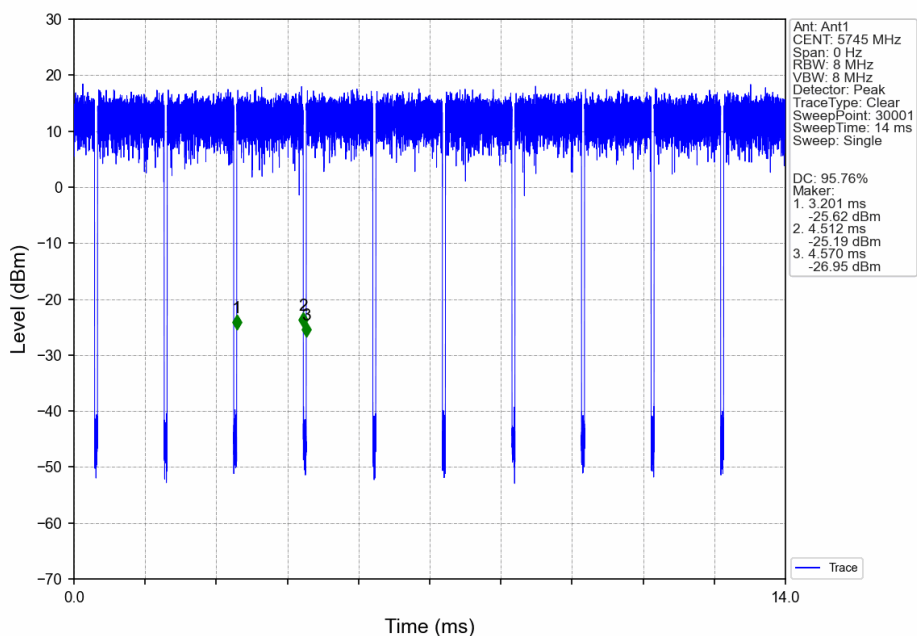


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802.11a HCH 5825MHz Ant1 NTN

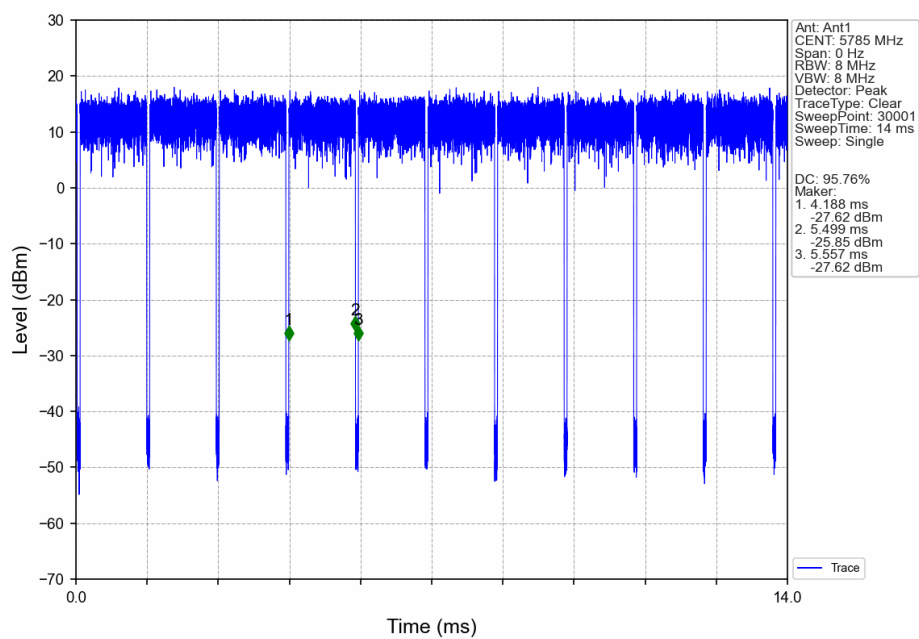


802.11n(HT20) LCH 5745MHz Ant1 NTN

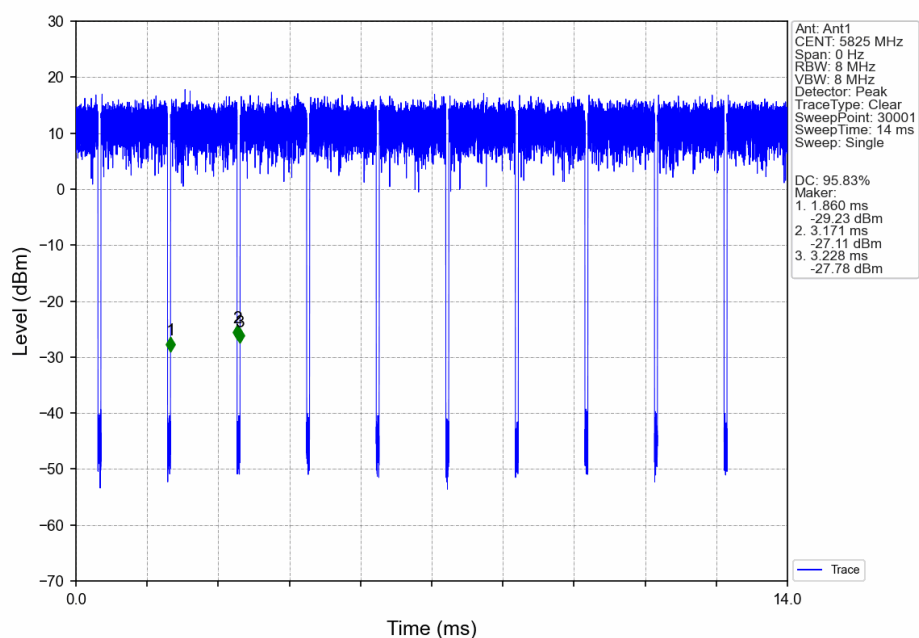


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802.11n(HT20) MCH 5785MHz Ant1 NTN

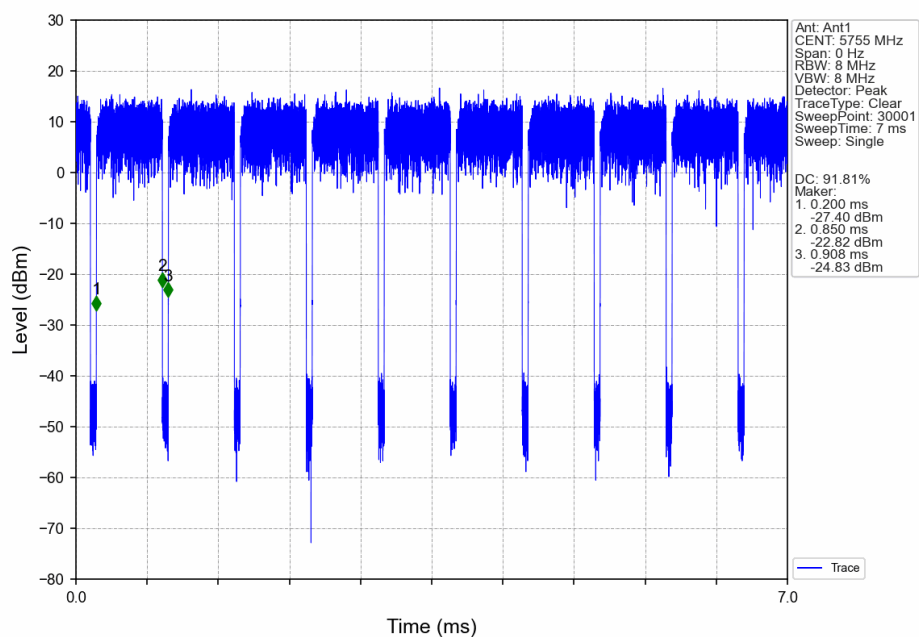


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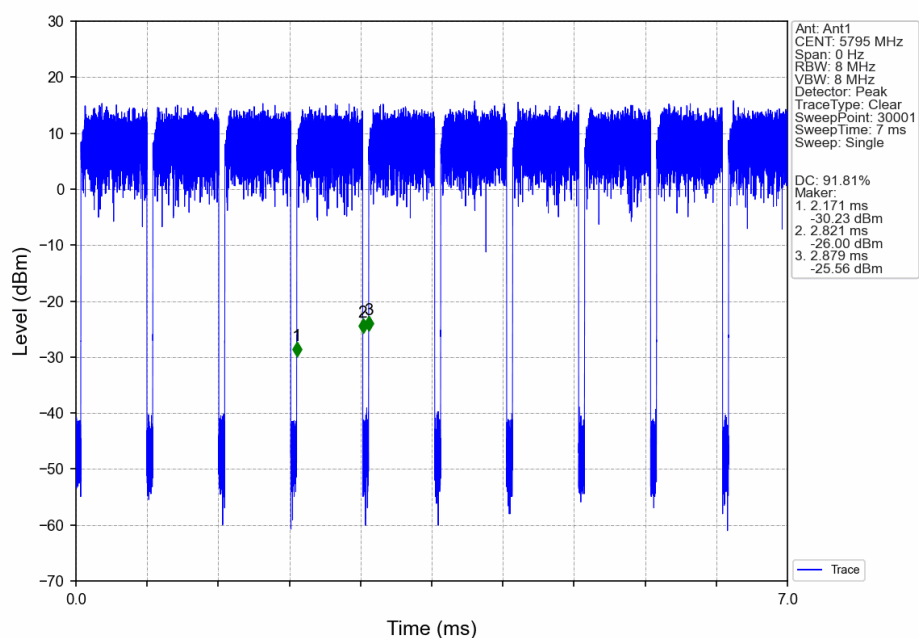


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802.11n(HT40) LCH 5755MHz Ant1 NTN

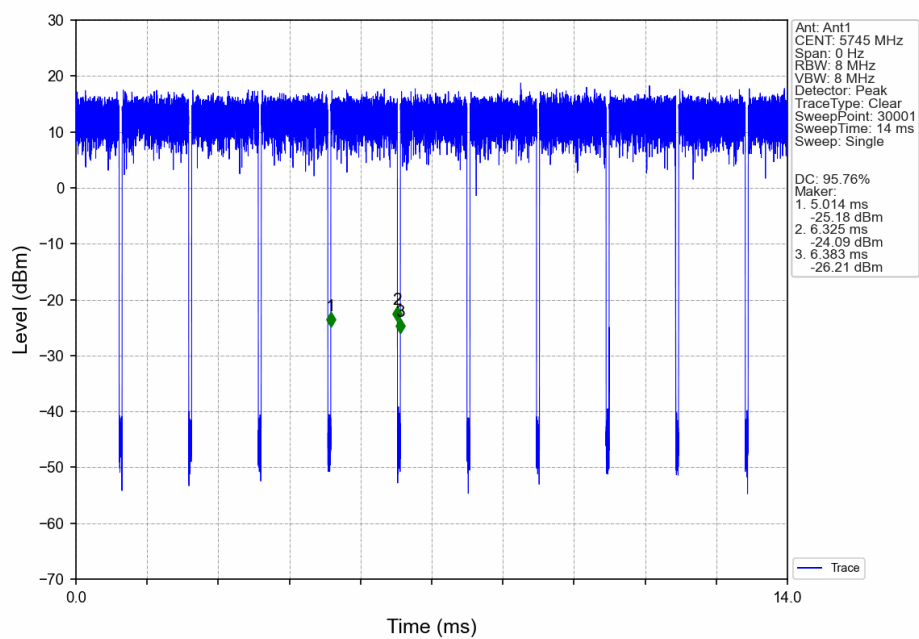


802.11n(HT40) HCH 5795MHz Ant1 NTN

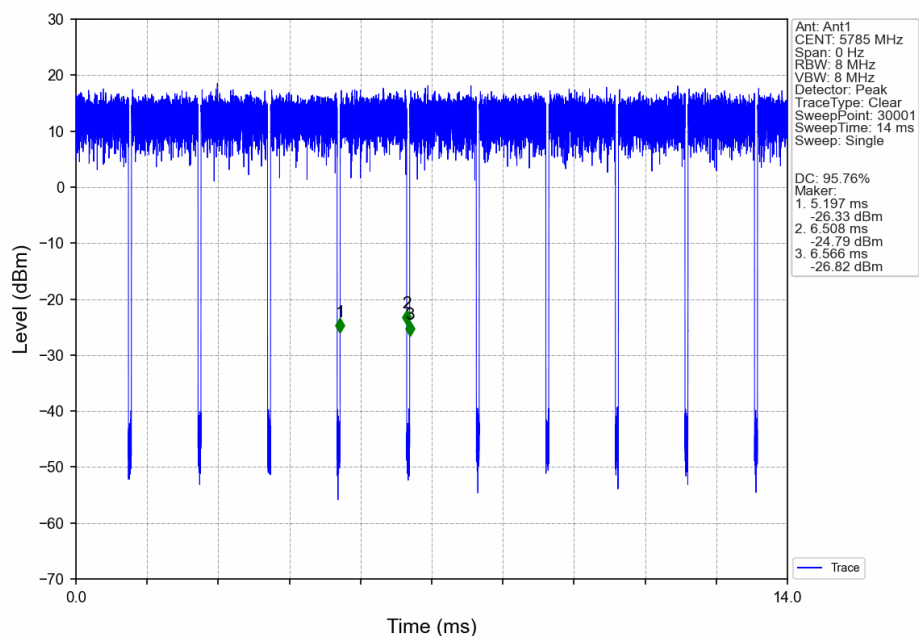


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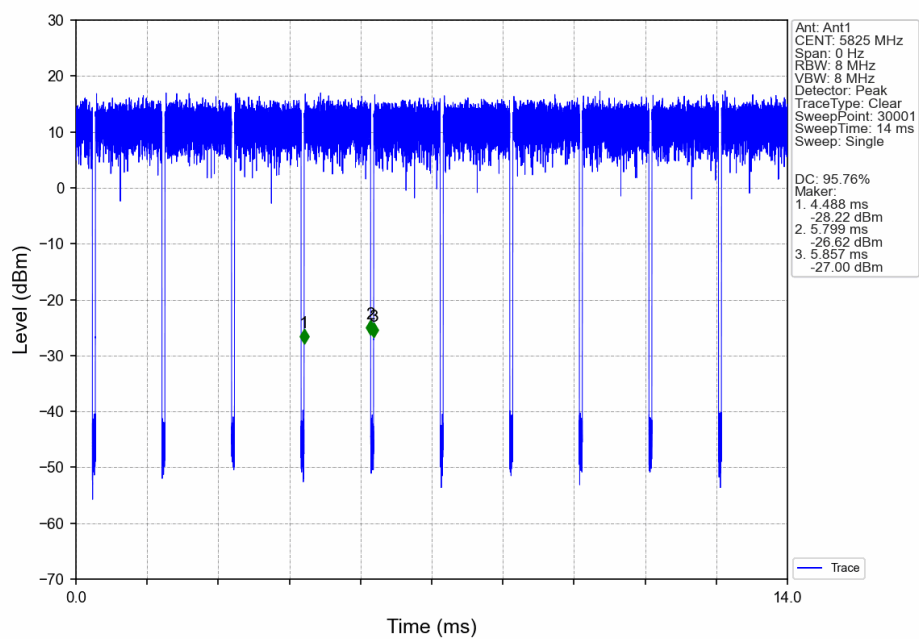


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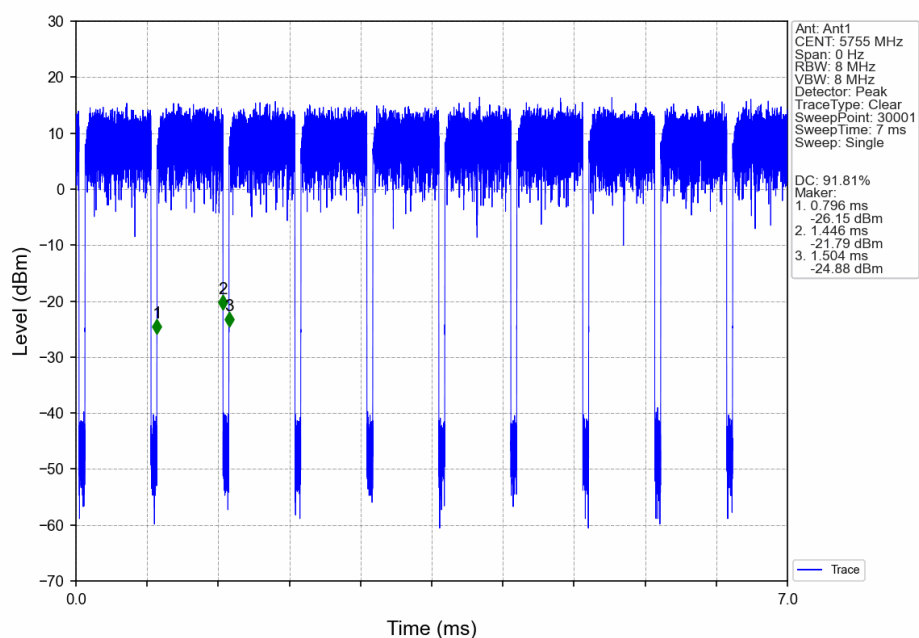


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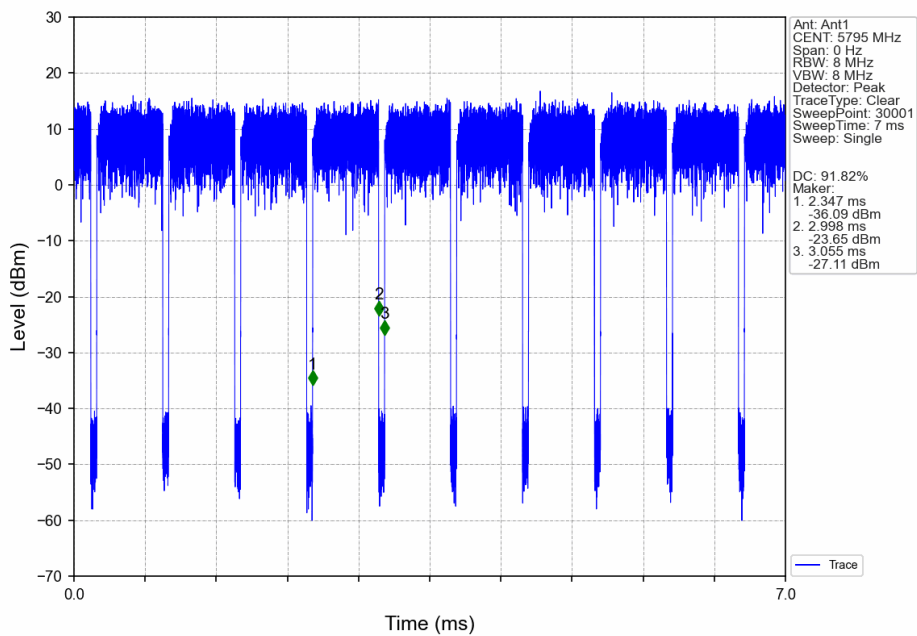


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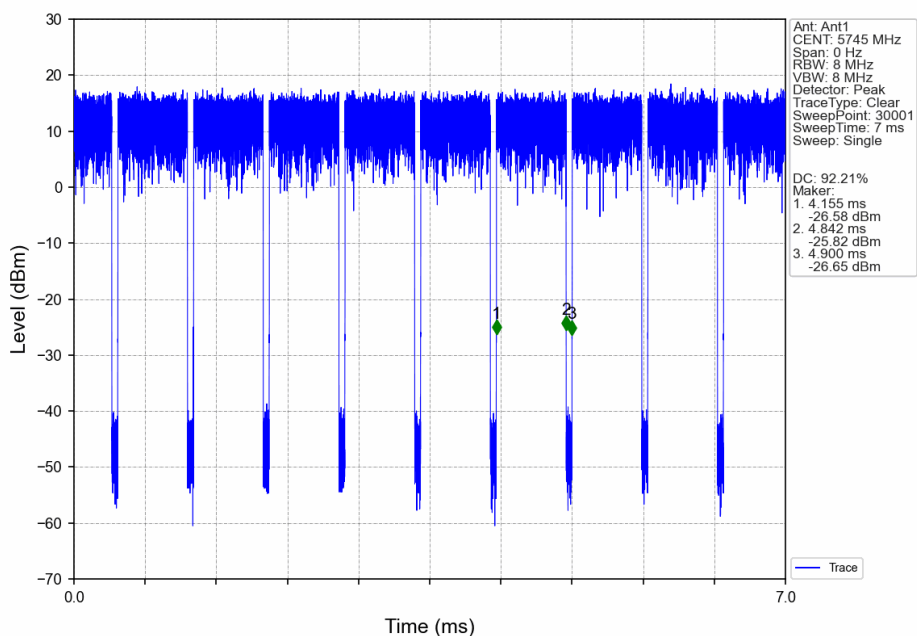


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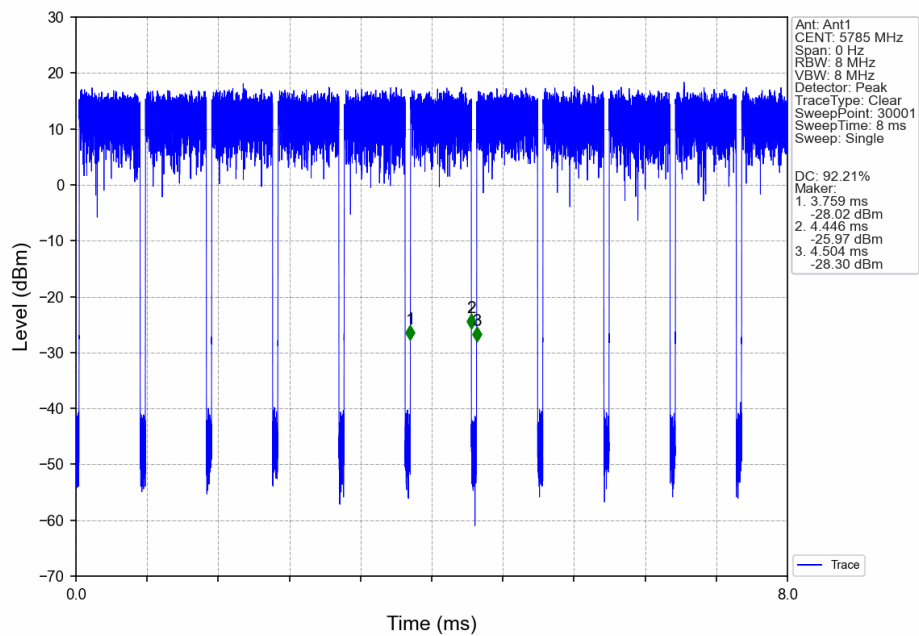


802.11ac(VHT20) LCH 5745MHz Ant1 NTN

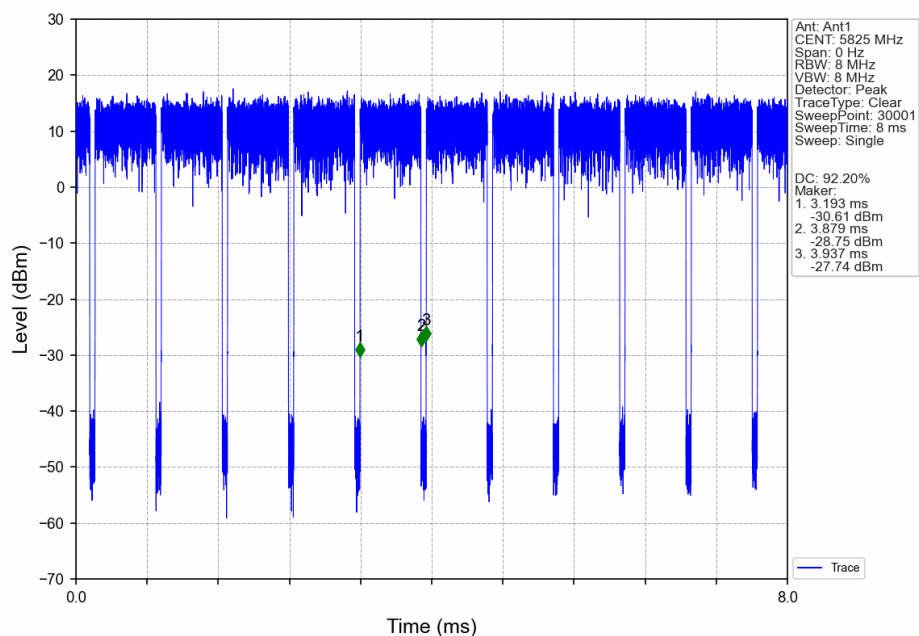


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802.11ac(VHT20) MCH 5785MHz Ant1 NTN

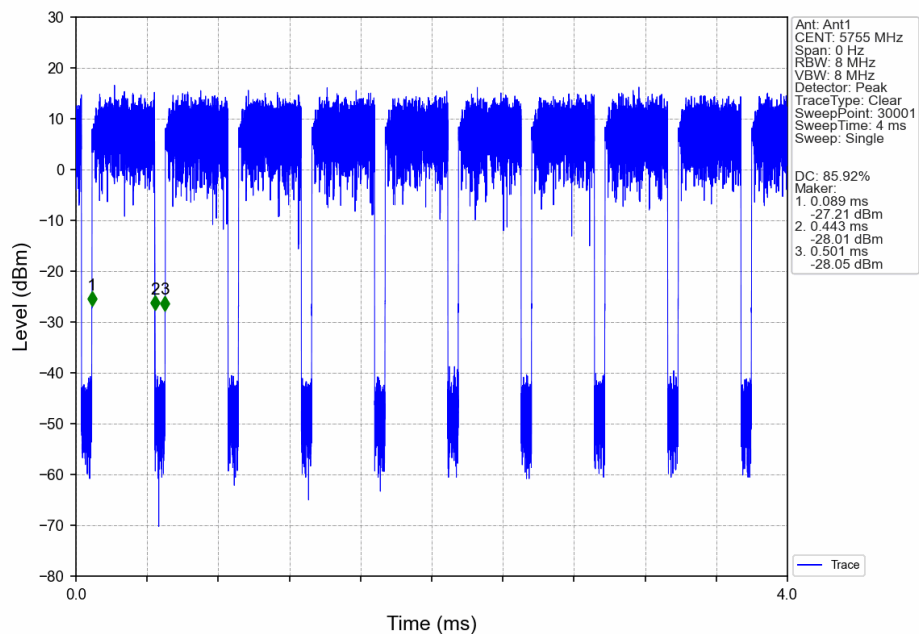


802.11ac(VHT20) HCH 5825MHz Ant1 NTN

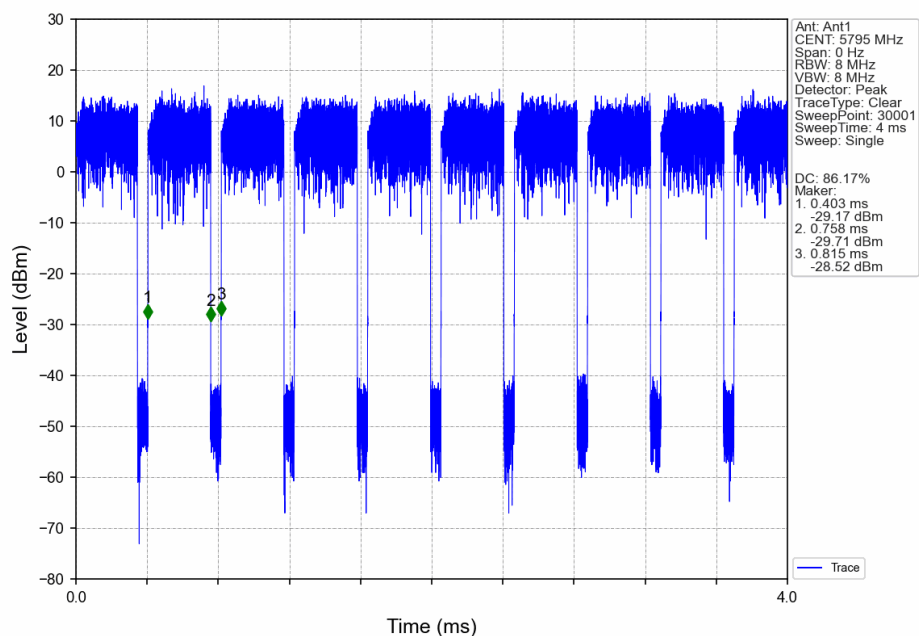


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802.11ac(VHT40) LCH 5755MHz Ant1 NTN

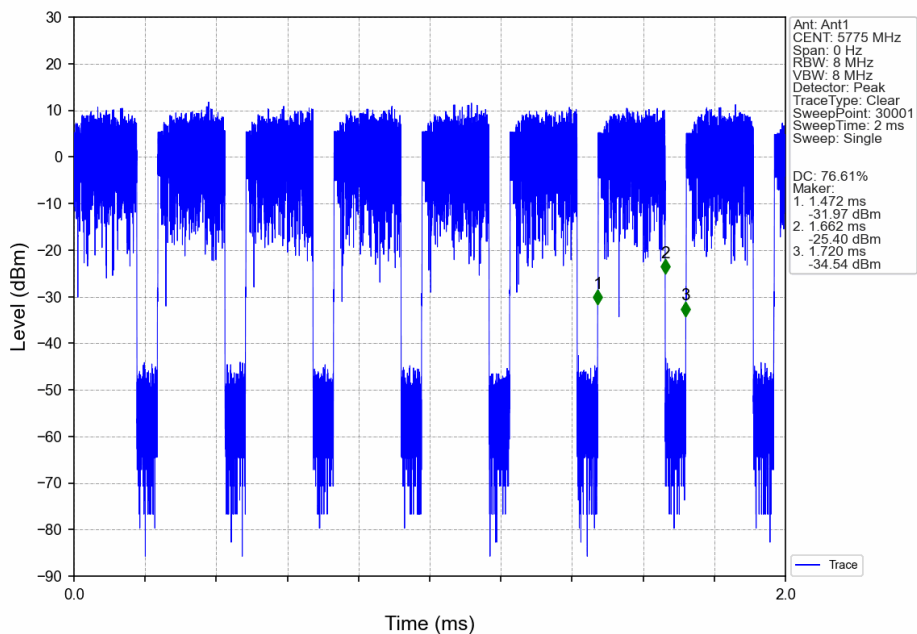


802.11ac(VHT40) HCH 5795MHz Ant1 NTN

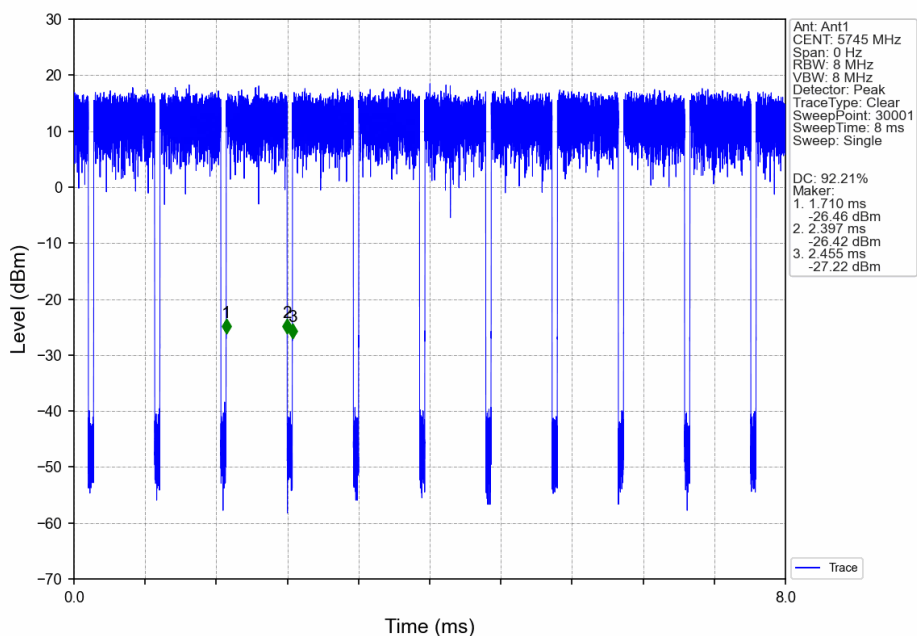


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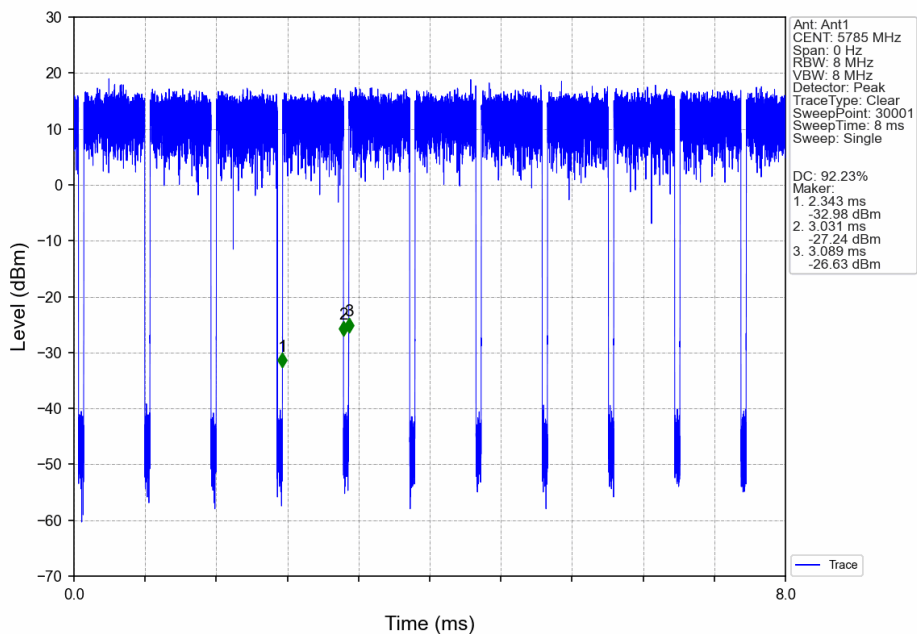


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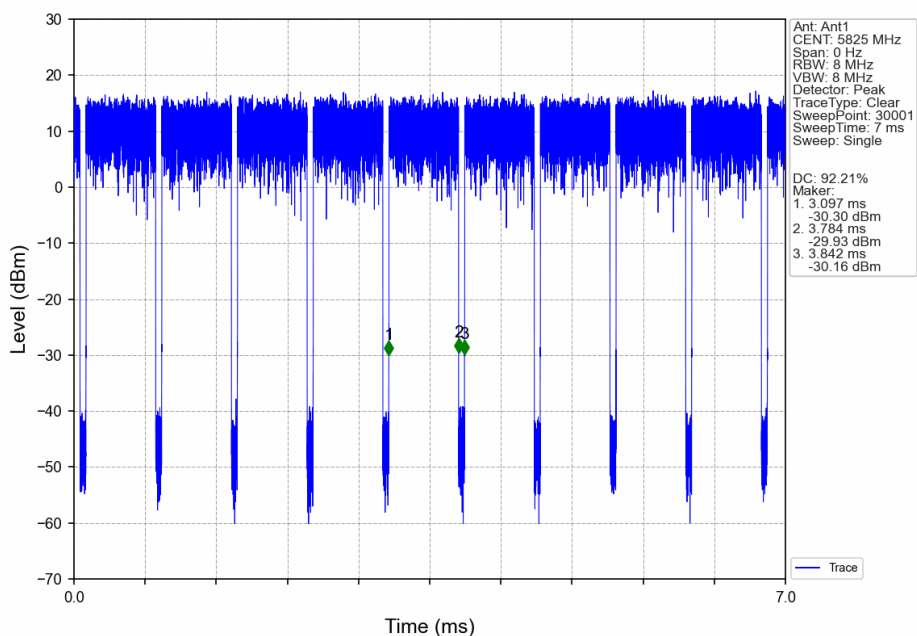


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802.11ac(VHT20) MCH 5785MHz Ant1 NTN

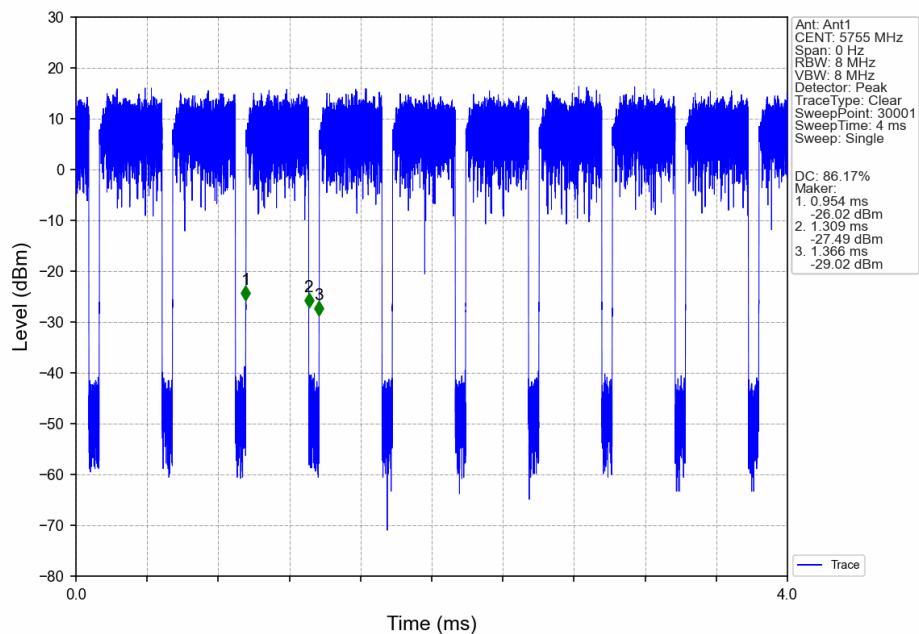


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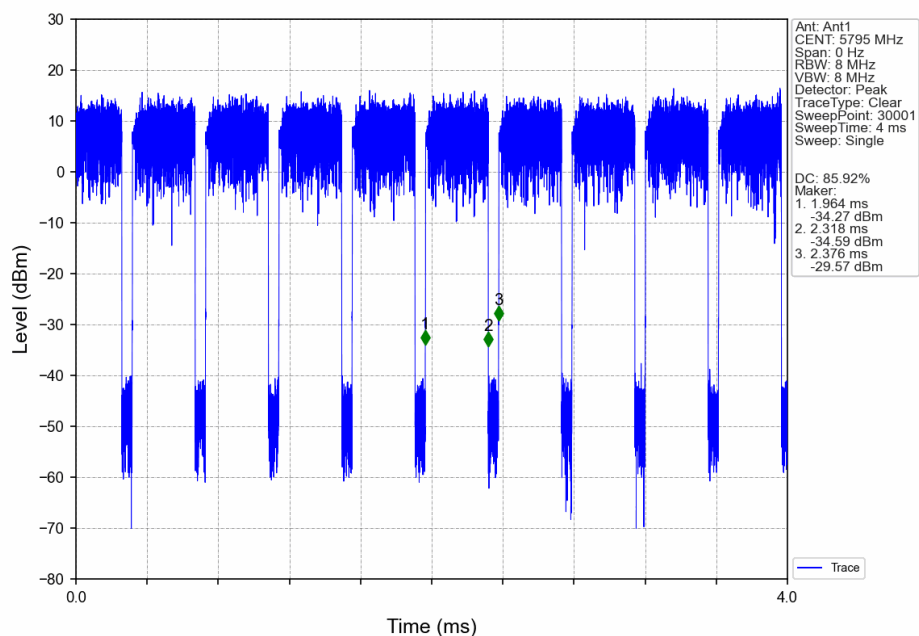


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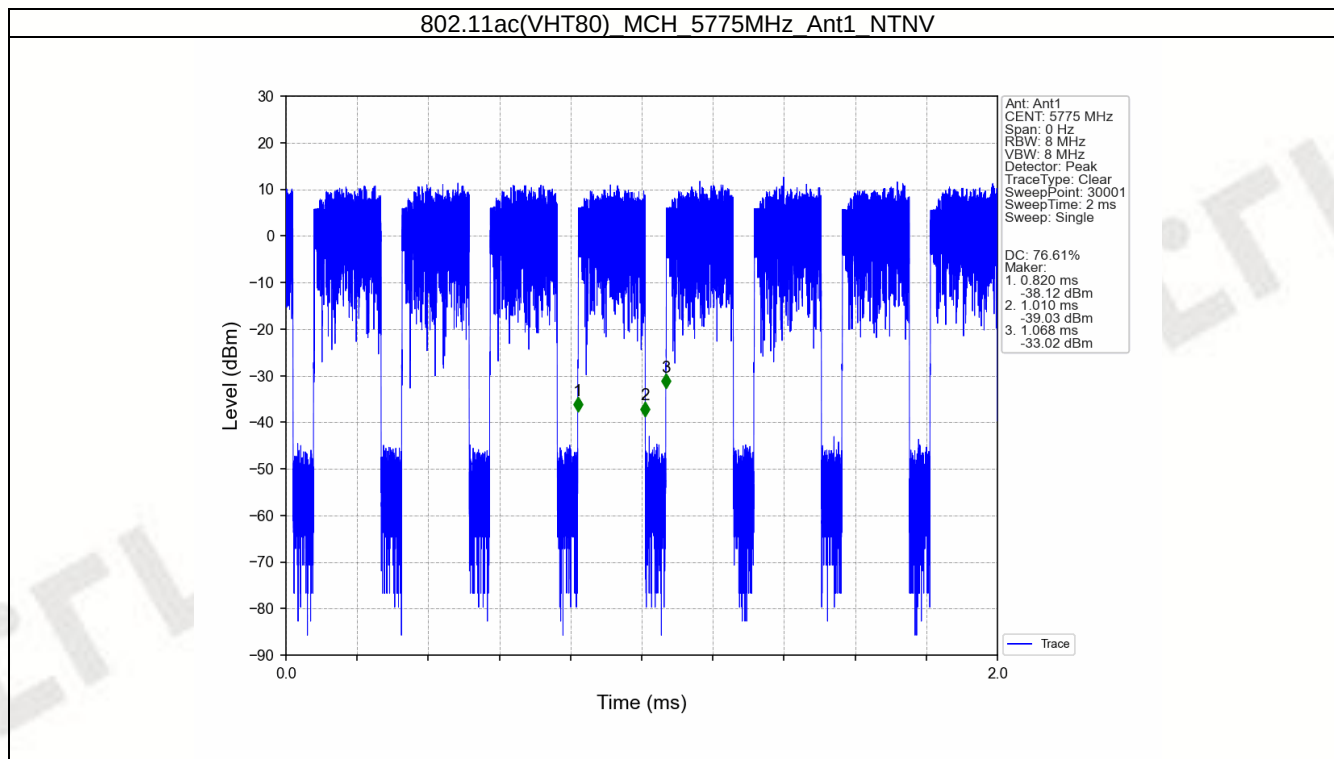
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



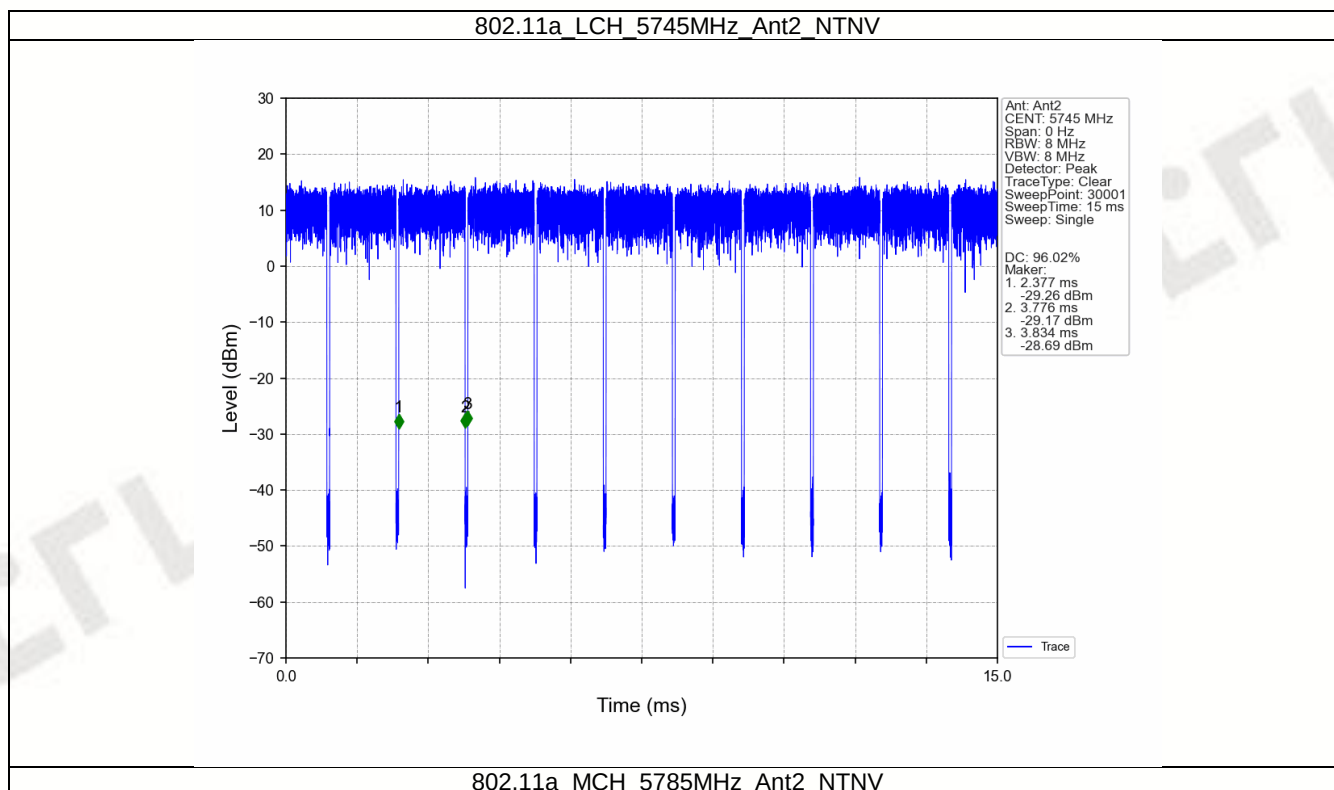
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



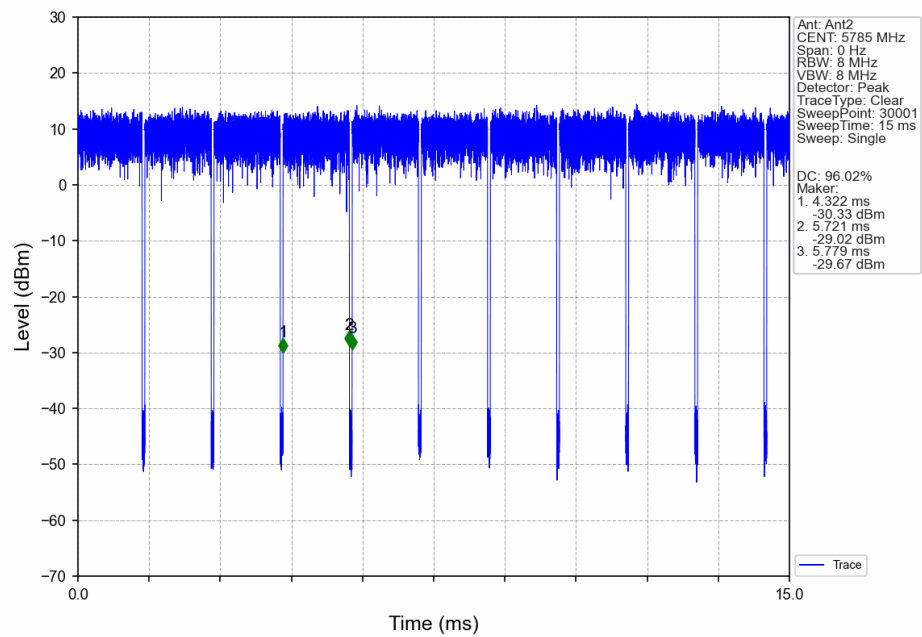
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1.2.2 Ant2

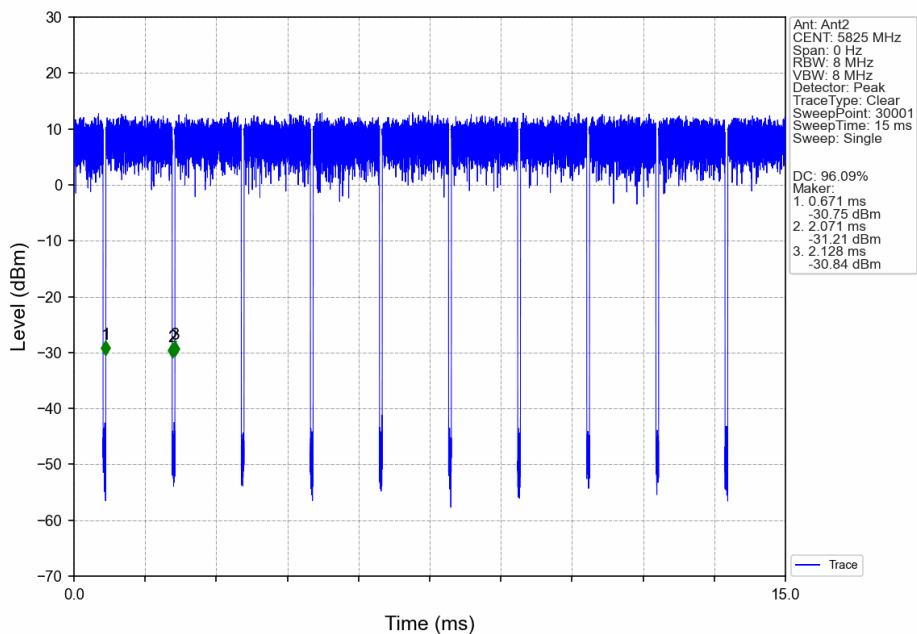


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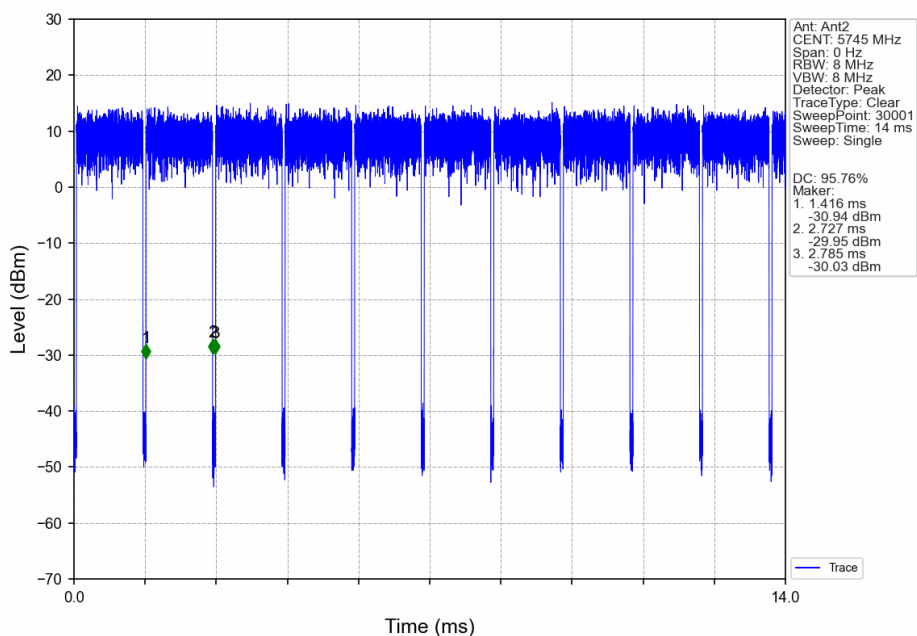


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802.11a HCH 5825MHz Ant2 NTN

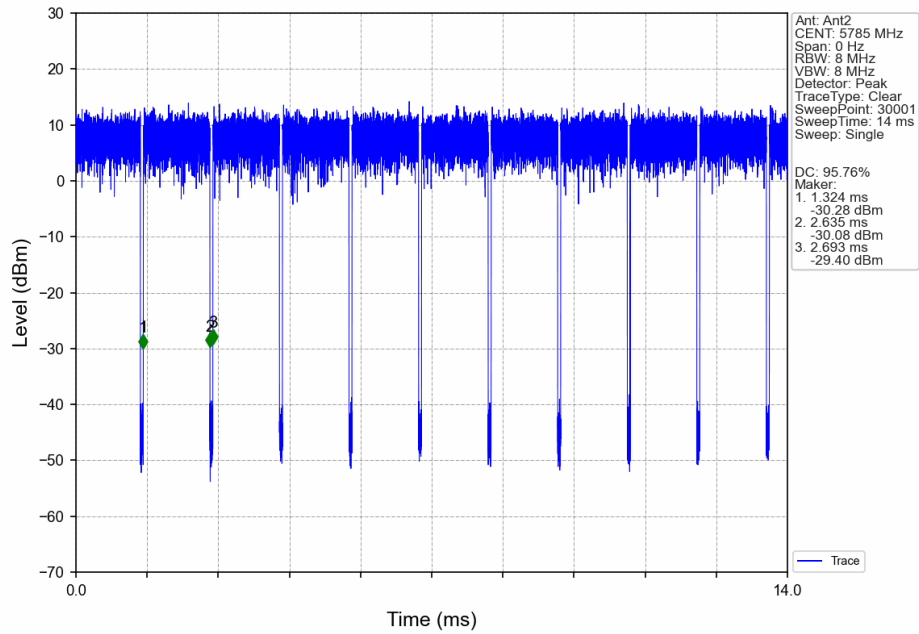


802.11n(HT20) LCH 5745MHz Ant2 NTN

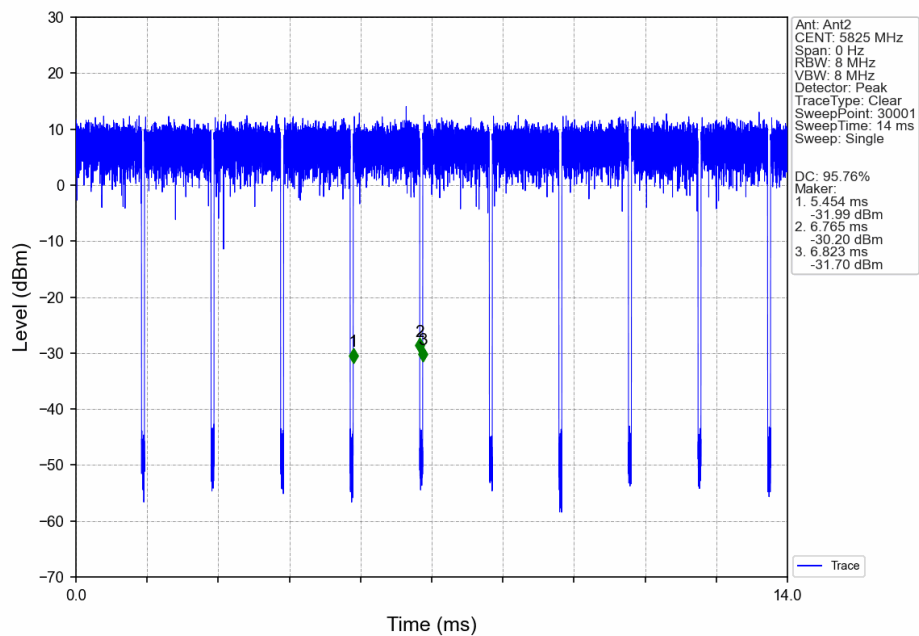


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802.11n(HT20) MCH 5785MHz Ant2 NTN

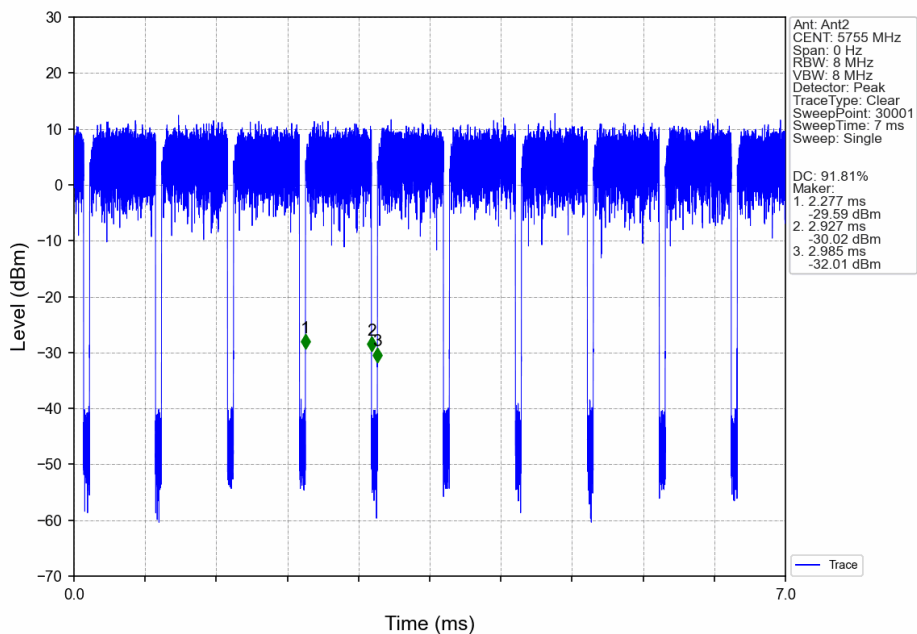


802.11n(HT20) HCH 5825MHz Ant2 NTN

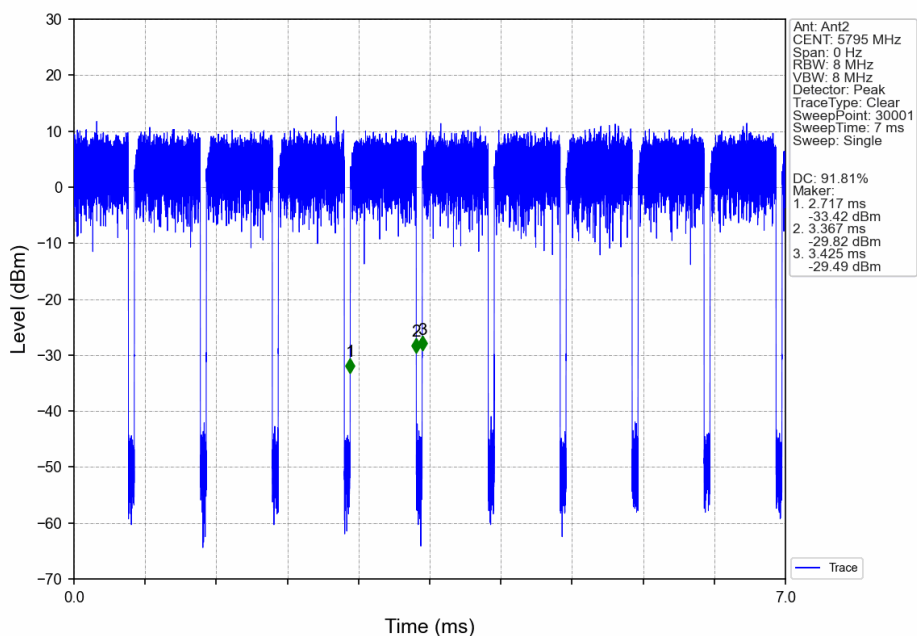


FCCID: 2AYHD-SR01

802.11n(HT40) LCH 5755MHz Ant2 NTN

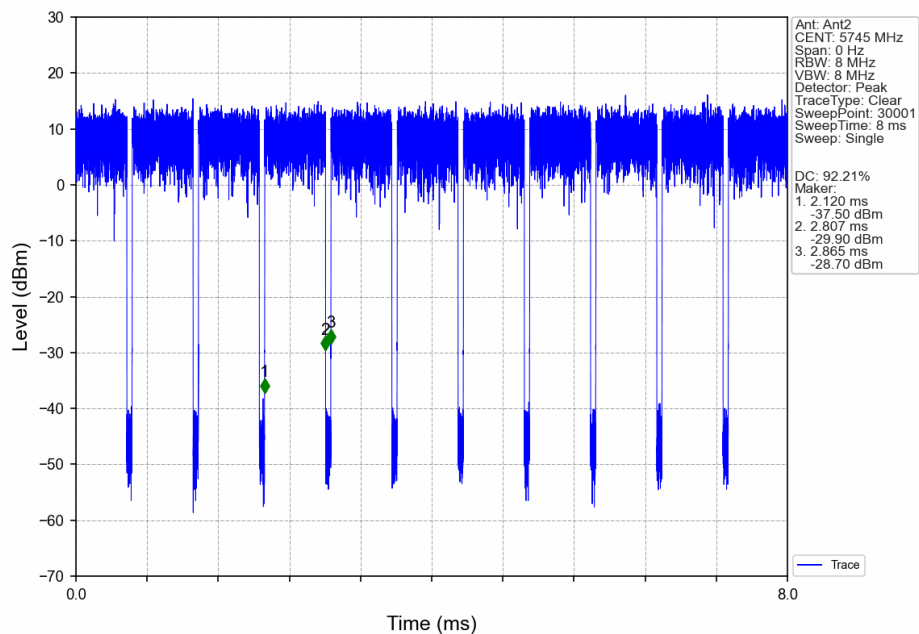


802.11n(HT40) HCH 5795MHz Ant2 NTN

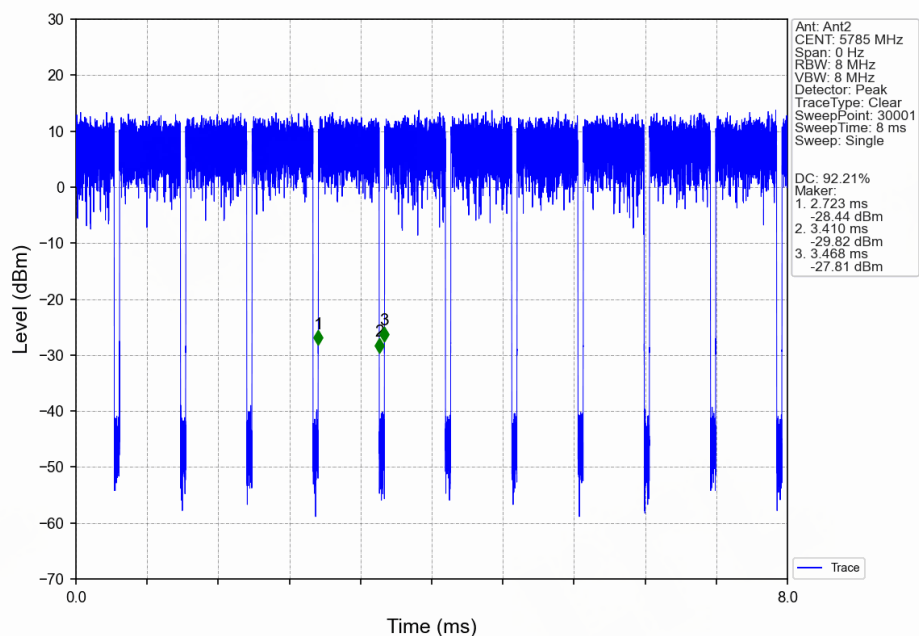


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802.11ac(VHT20) LCH 5745MHz Ant2 NTN

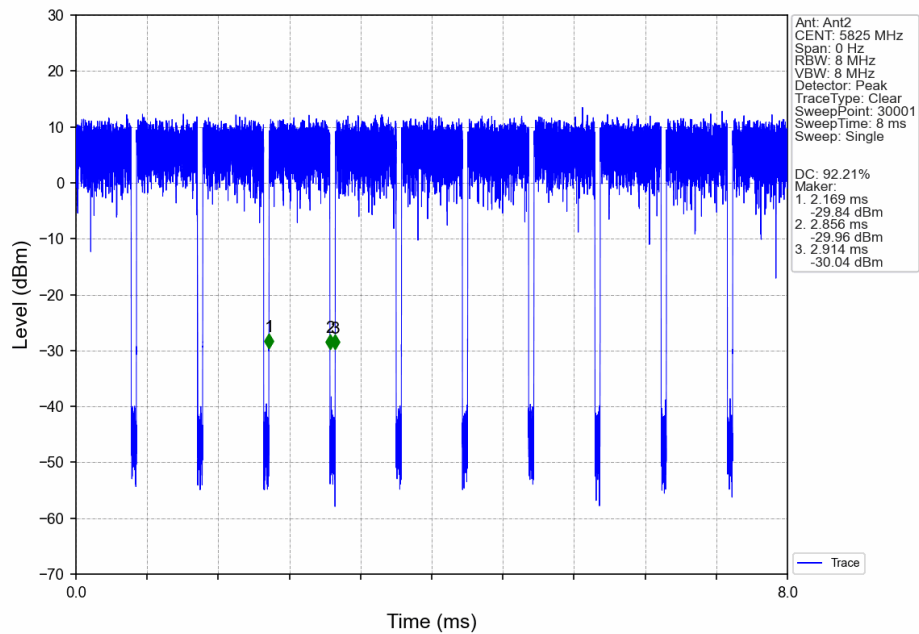


802.11ac(VHT20) MCH 5785MHz Ant2 NTN

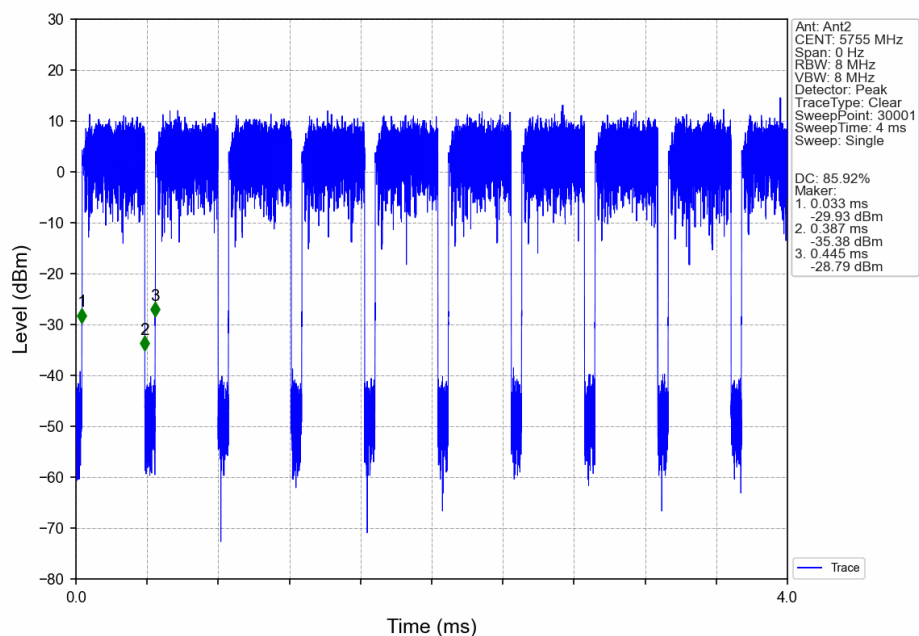


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802.11ac(VHT20) HCH 5825MHz Ant2 NTN

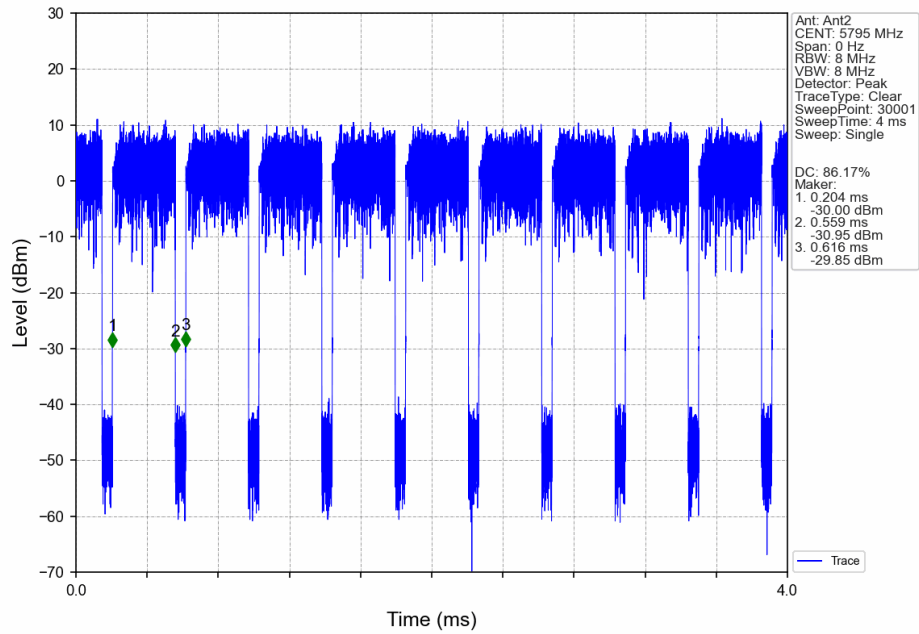


802.11ac(VHT40) LCH 5755MHz Ant2 NTN

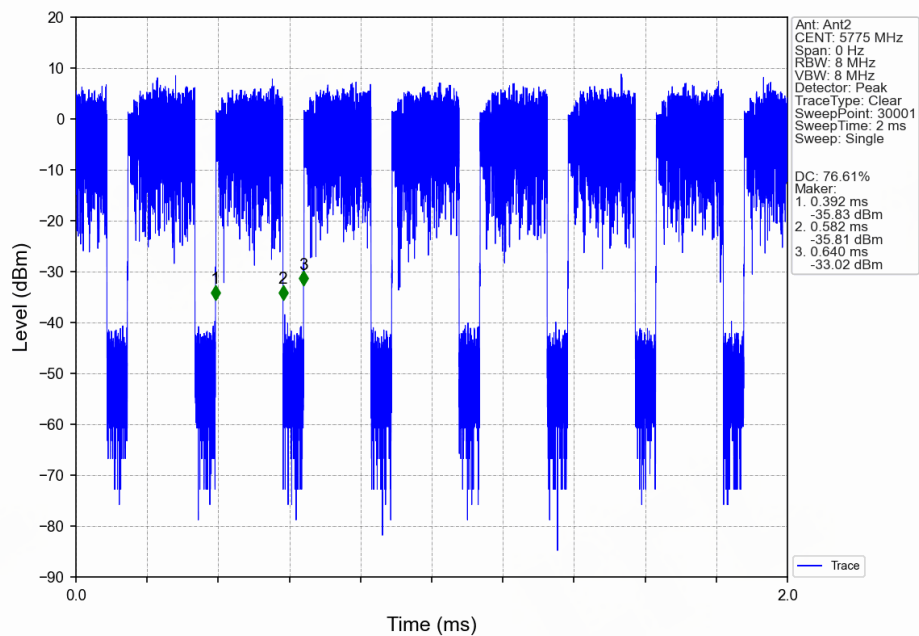


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802.11ac(VHT40) HCH 5795MHz Ant2 NTN



802.11ac(VHT80) MCH 5775MHz Ant2 NTN



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.567	/	Pass
		5785	1	17.495	/	Pass
		5825	1	17.254	/	Pass
802.11n (HT20)	SISO	5745	1	18.302	/	Pass
		5785	1	18.152	/	Pass
		5825	1	18.100	/	Pass
802.11n (HT40)	SISO	5755	1	36.606	/	Pass
		5795	1	36.533	/	Pass
802.11n (HT20)	MIMO	5745	1	18.336	/	Pass
		5785	1	18.095	/	Pass
		5825	1	18.038	/	Pass
802.11n (HT40)	MIMO	5755	1	36.693	/	Pass
		5795	1	36.475	/	Pass
802.11ac (VHT20)	SISO	5745	1	18.382	/	Pass
		5785	1	18.257	/	Pass
		5825	1	18.016	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.772	/	Pass
		5795	1	36.548	/	Pass
802.11ac (VHT80)	SISO	5775	1	76.269	/	Pass
802.11ac (VHT20)	MIMO	5745	1	18.407	/	Pass
		5785	1	18.168	/	Pass
		5825	1	18.086	/	Pass
802.11ac (VHT40)	MIMO	5755	1	36.791	/	Pass
		5795	1	36.455	/	Pass
802.11ac (VHT80)	MIMO	5775	1	76.142	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.168	≥ 0.5	Pass
		5785	1	15.172	≥ 0.5	Pass
		5825	1	15.172	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	14.804	≥ 0.5	Pass
		5785	1	13.877	≥ 0.5	Pass
		5825	1	14.470	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.147	≥ 0.5	Pass
		5795	1	33.867	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	15.148	≥ 0.5	Pass
		5785	1	15.519	≥ 0.5	Pass
		5825	1	14.775	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.132	≥ 0.5	Pass
		5795	1	35.091	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.175	≥ 0.5	Pass
		5785	1	15.166	≥ 0.5	Pass

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		5825	1	15.160	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	33.866	≥ 0.5	Pass
		5795	1	35.149	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.122	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	15.178	≥ 0.5	Pass
		5785	1	15.155	≥ 0.5	Pass
		5825	1	15.048	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.141	≥ 0.5	Pass
		5795	1	35.122	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.155	≥ 0.5	Pass

2.1.3 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	2	17.103	/	Pass
		5785	2	17.212	/	Pass
		5825	2	17.260	/	Pass
802.11n (HT20)	SISO	5745	2	17.986	/	Pass
		5785	2	18.037	/	Pass
		5825	2	18.043	/	Pass
802.11n (HT40)	SISO	5755	2	36.324	/	Pass
		5795	2	36.380	/	Pass
802.11ac (VHT20)	SISO	5745	2	17.820	/	Pass
		5785	2	17.869	/	Pass
		5825	2	17.970	/	Pass
802.11ac (VHT40)	SISO	5755	2	36.404	/	Pass
		5795	2	36.436	/	Pass
802.11ac (VHT80)	SISO	5775	2	75.651	/	Pass

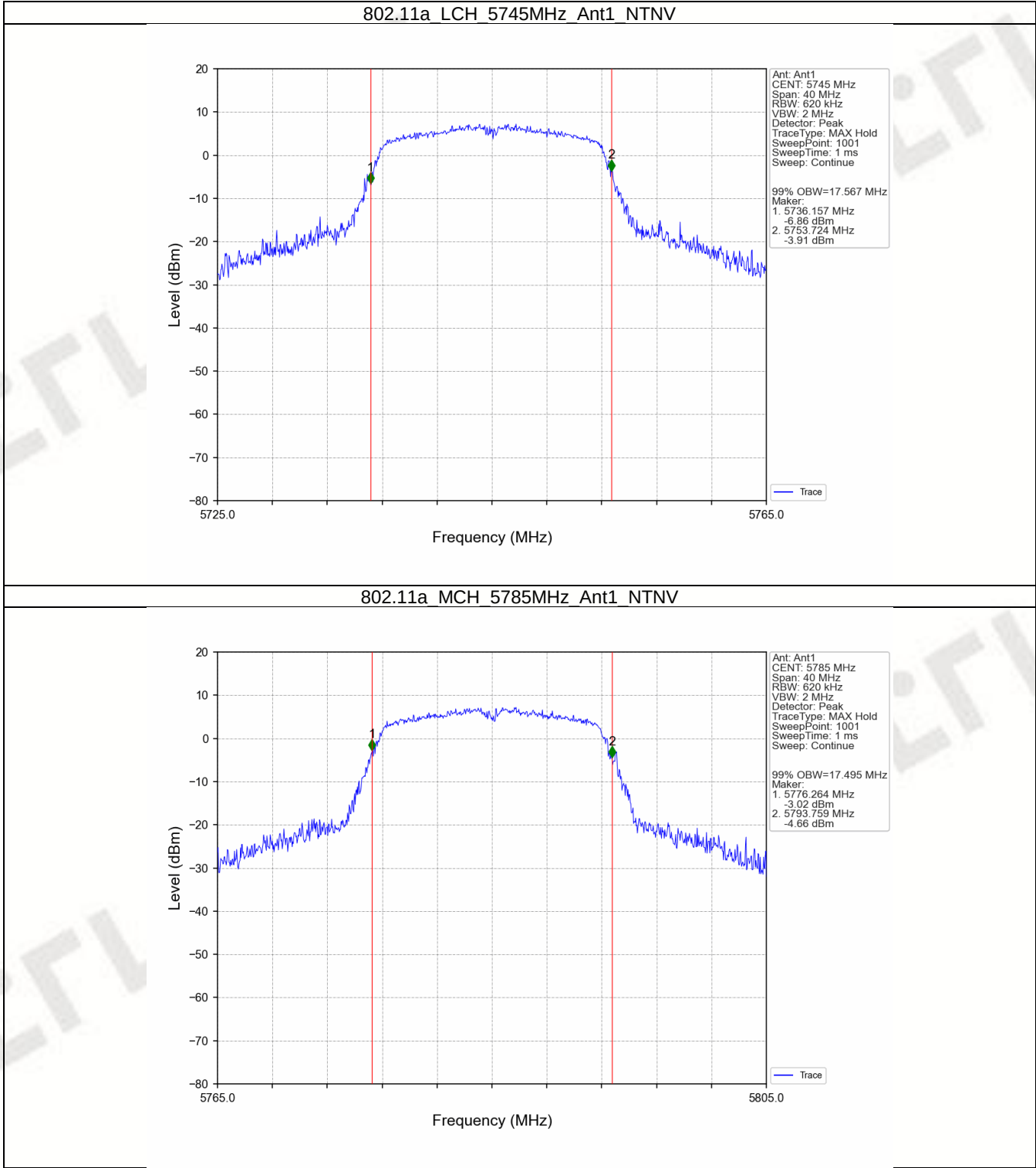
2.1.4 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	2	13.646	≥ 0.5	Pass
		5785	2	15.004	≥ 0.5	Pass
		5825	2	14.444	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	2	15.108	≥ 0.5	Pass
		5785	2	16.293	≥ 0.5	Pass
		5825	2	15.099	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	2	35.147	≥ 0.5	Pass
		5795	2	35.066	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	2	15.126	≥ 0.5	Pass
		5785	2	15.106	≥ 0.5	Pass
		5825	2	15.693	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	2	35.140	≥ 0.5	Pass
		5795	2	35.115	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	2	75.148	≥ 0.5	Pass

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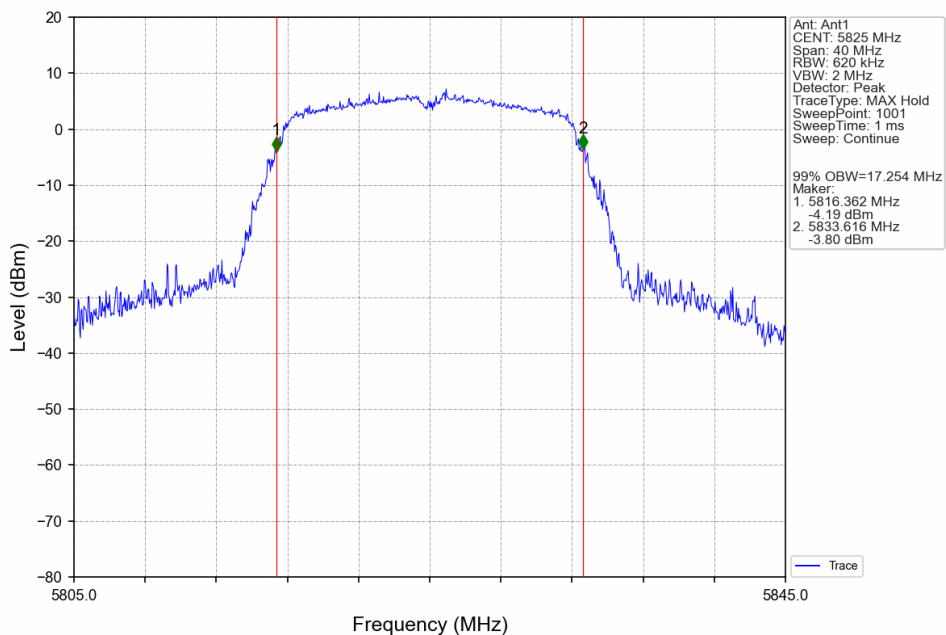
2.2 Test Graph

2.2.1 OBW

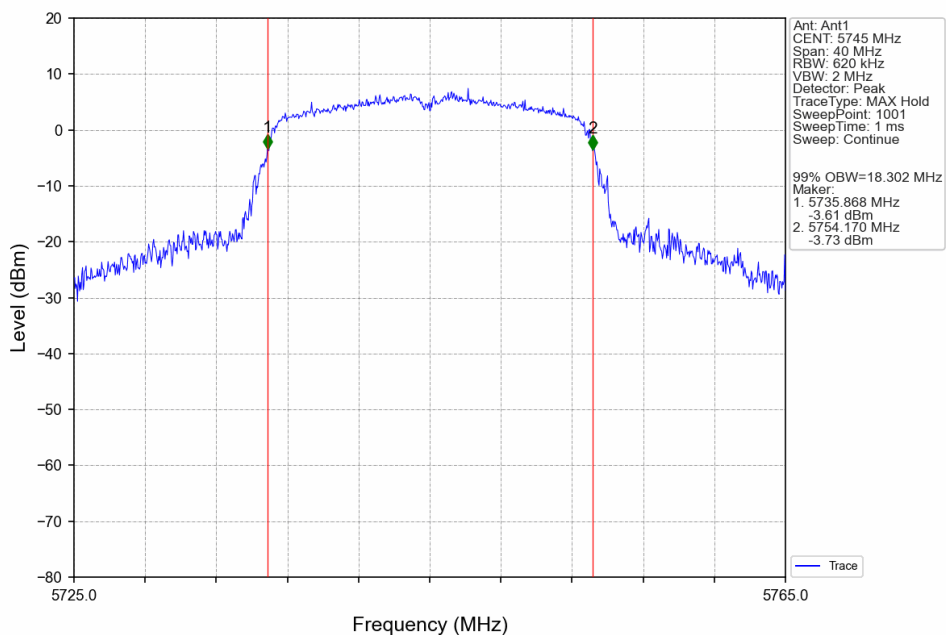


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802.11a_HCH_5825MHz_Ant1_NTNV

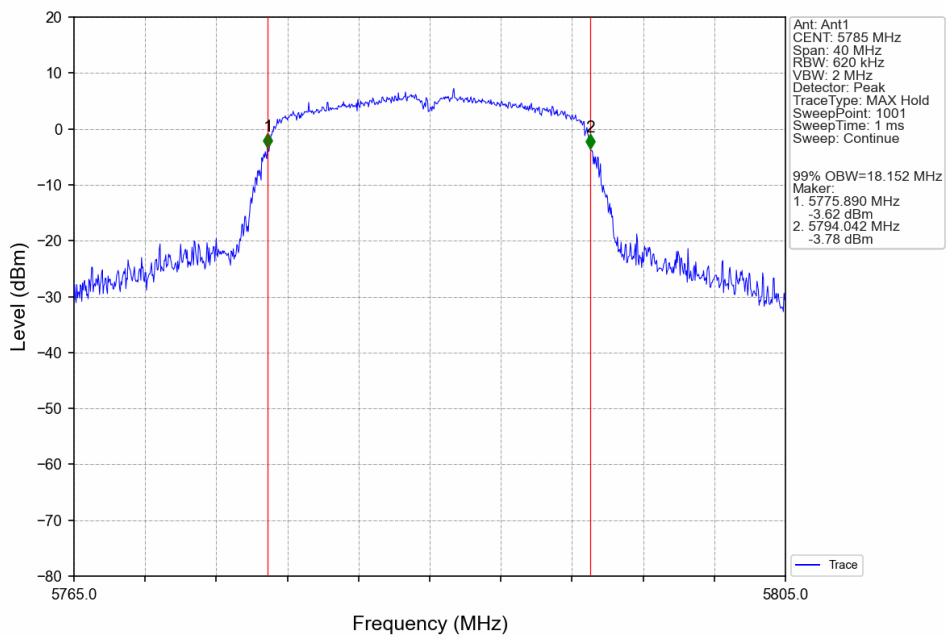


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

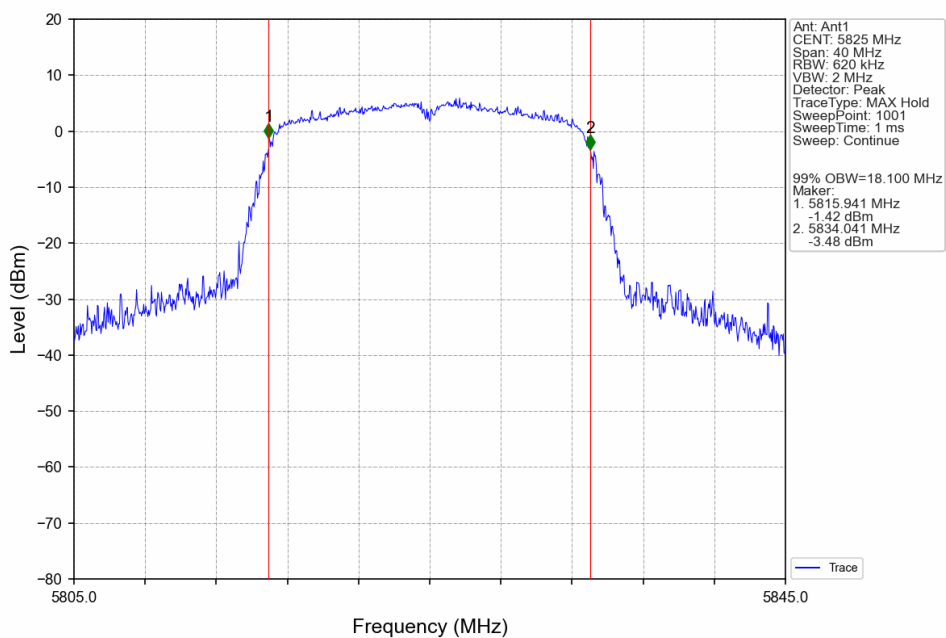


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802.11n(HT20) MCH 5785MHz Ant1 NTN



802.11n(HT20) HCH 5825MHz Ant1 NTN

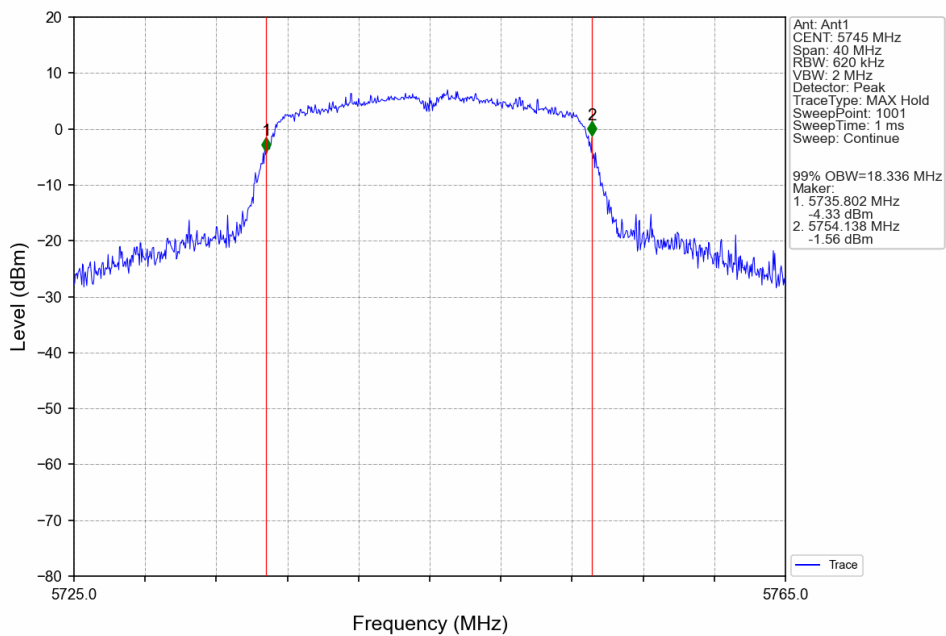


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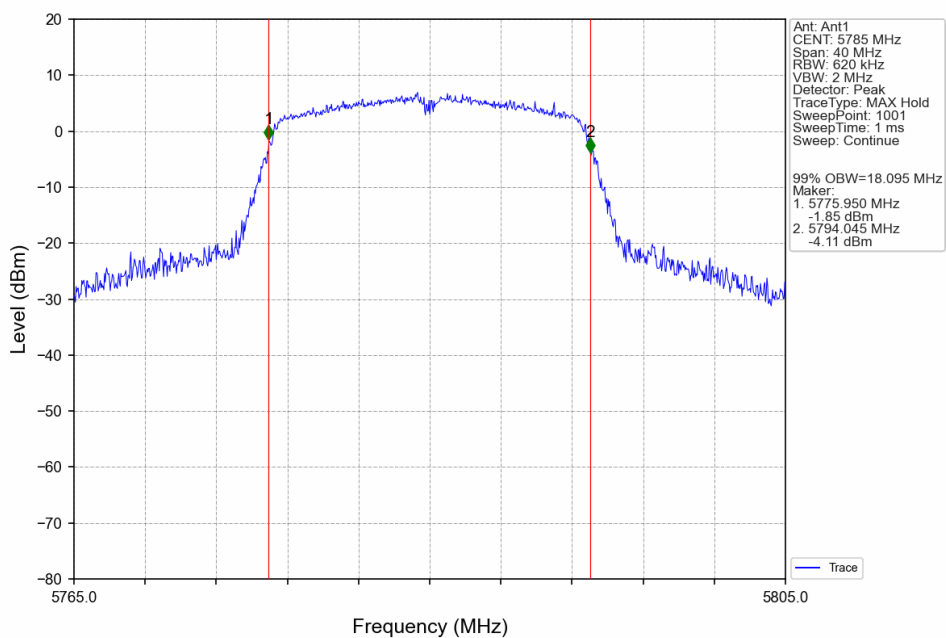


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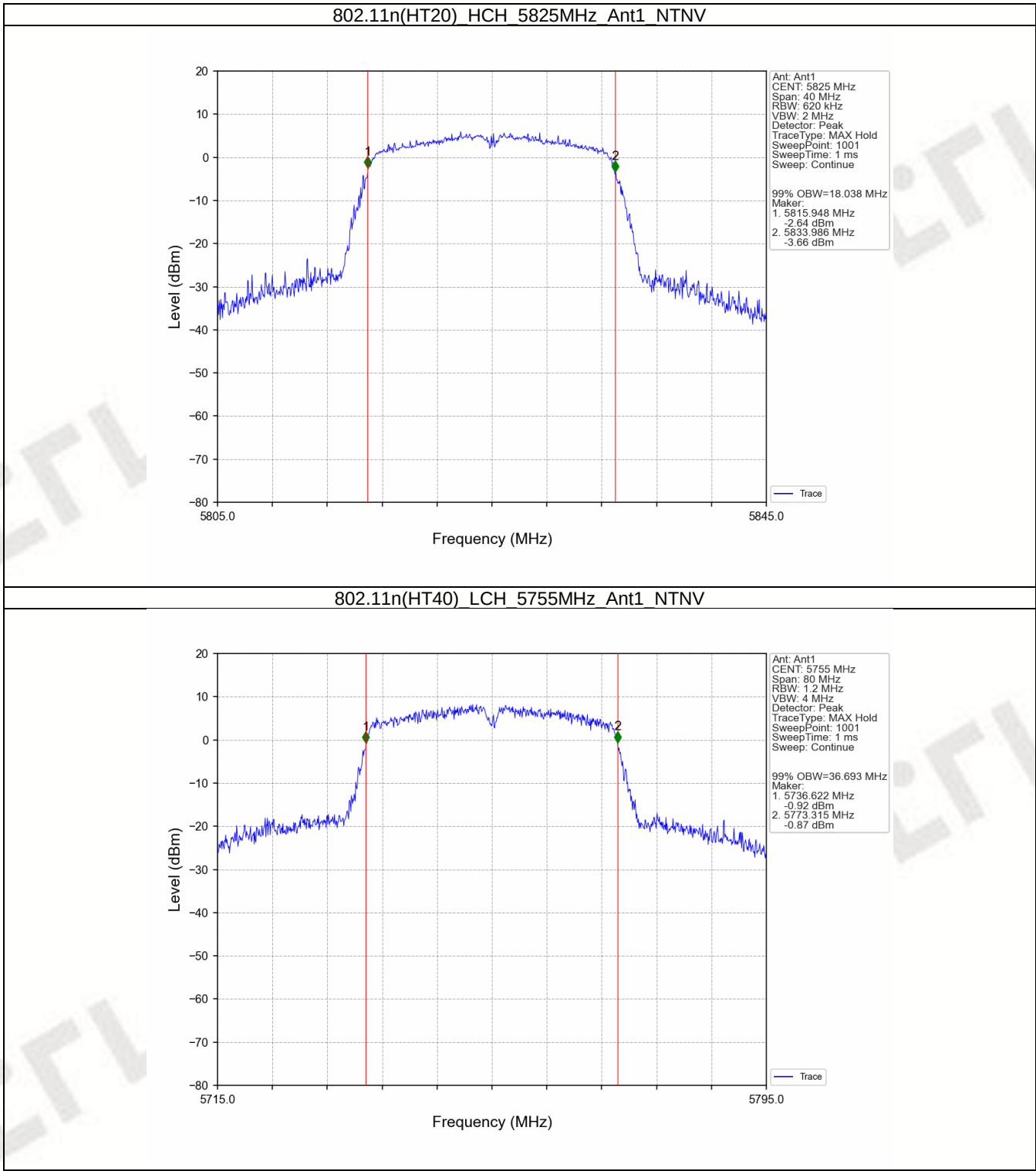
802.11n(HT20) LCH 5745MHz Ant1 NTN



802.11n(HT20) MCH 5785MHz Ant1 NTN

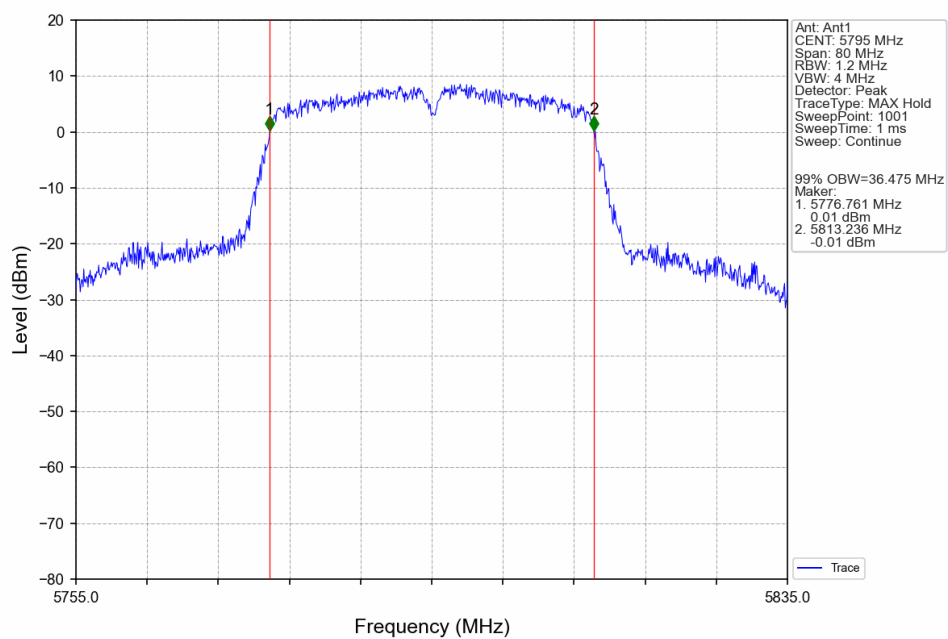


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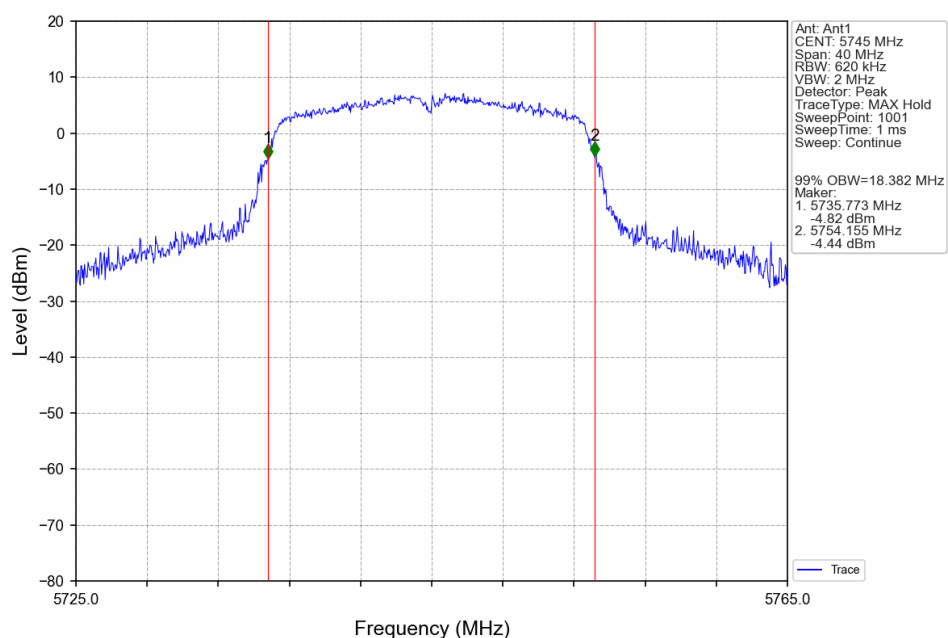


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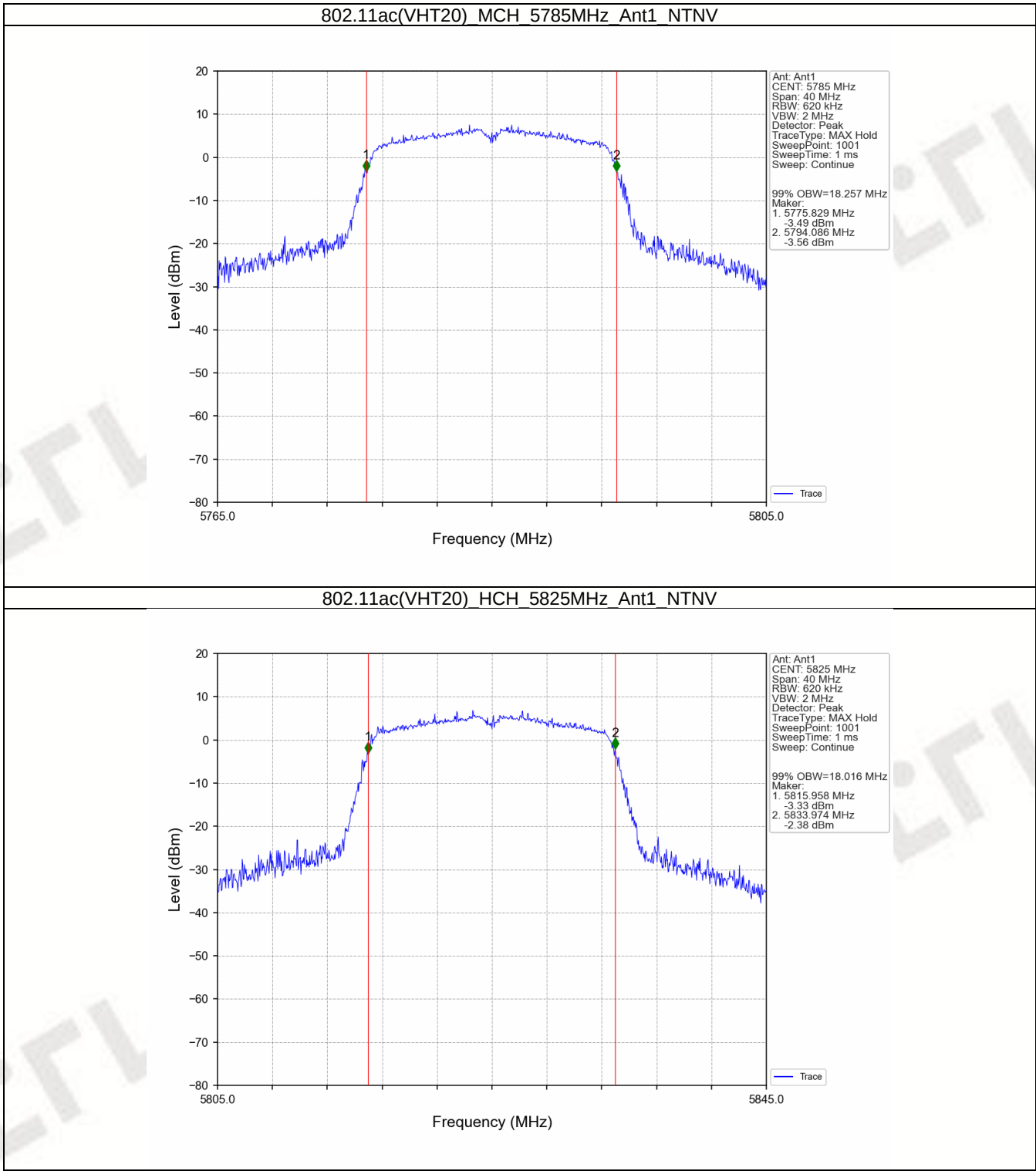
802.11n(HT40) HCH 5795MHz Ant1 NTN



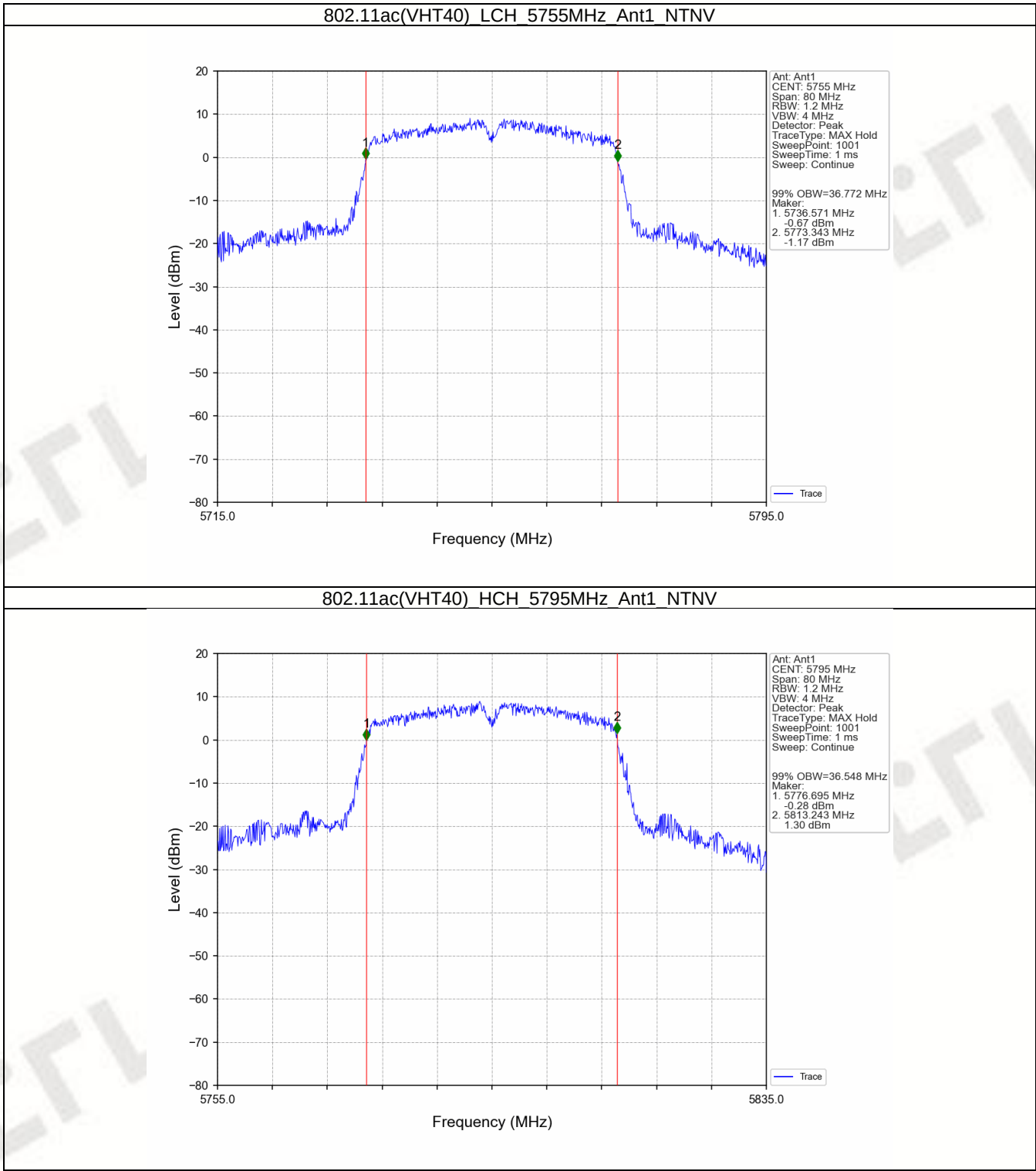
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



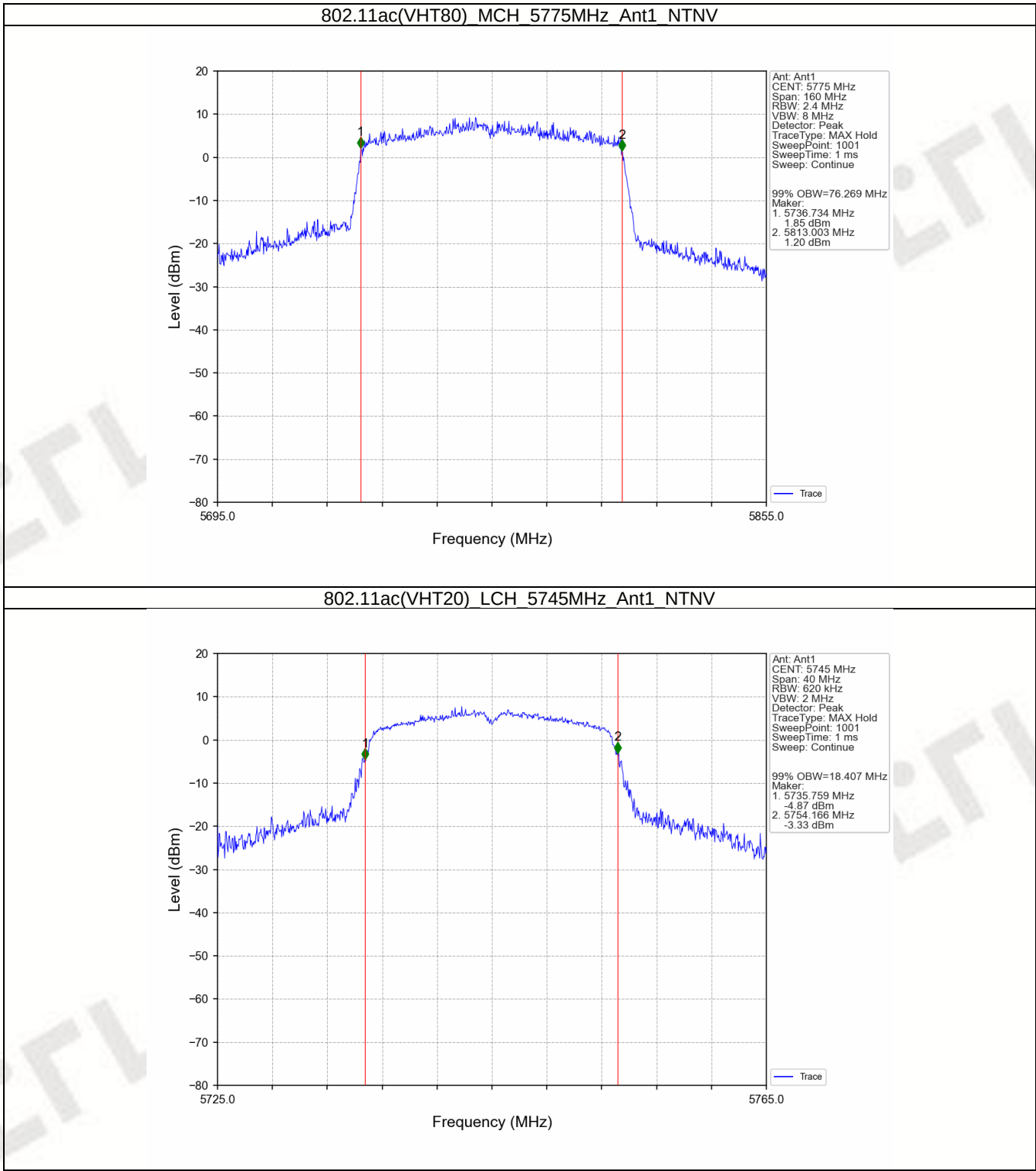
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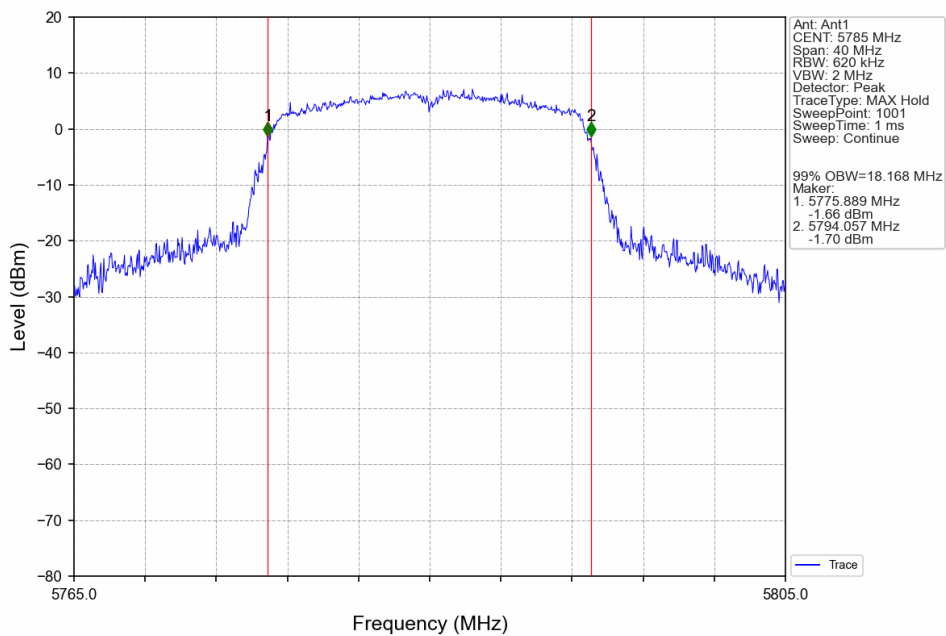


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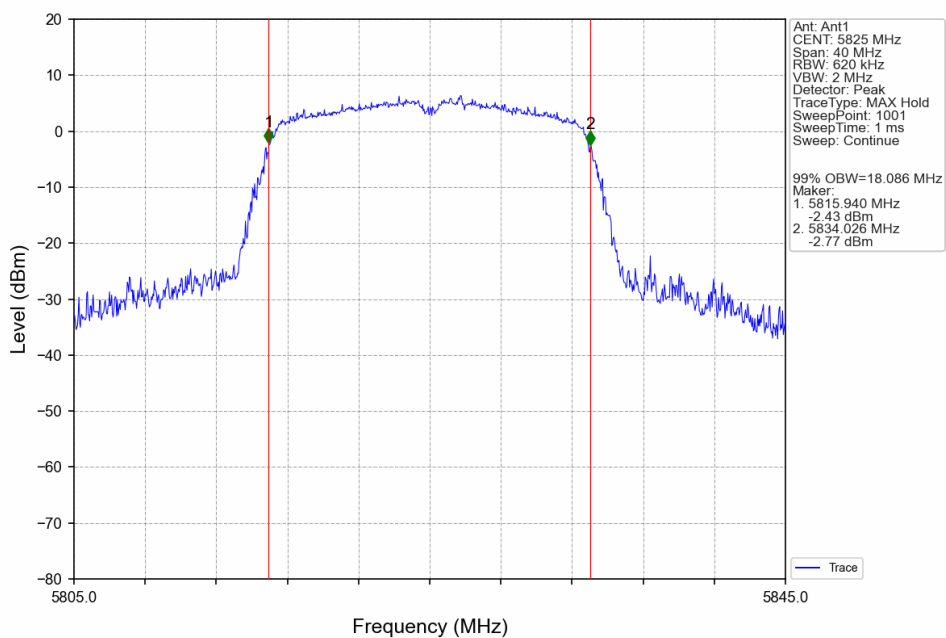


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802.11ac(VHT20) MCH 5785MHz Ant1 NTNV

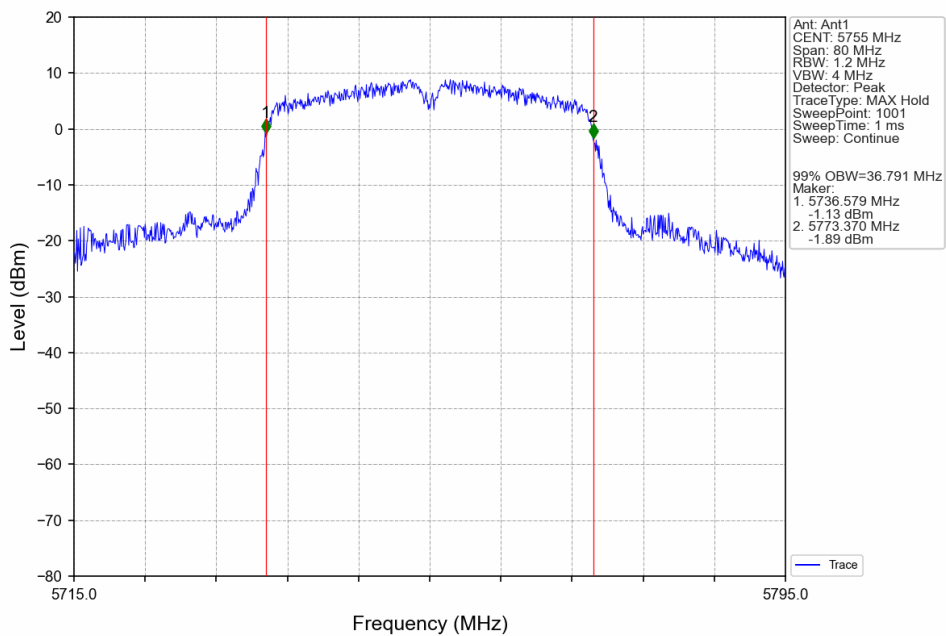


802.11ac(VHT20) HCH 5825MHz Ant1 NTNV

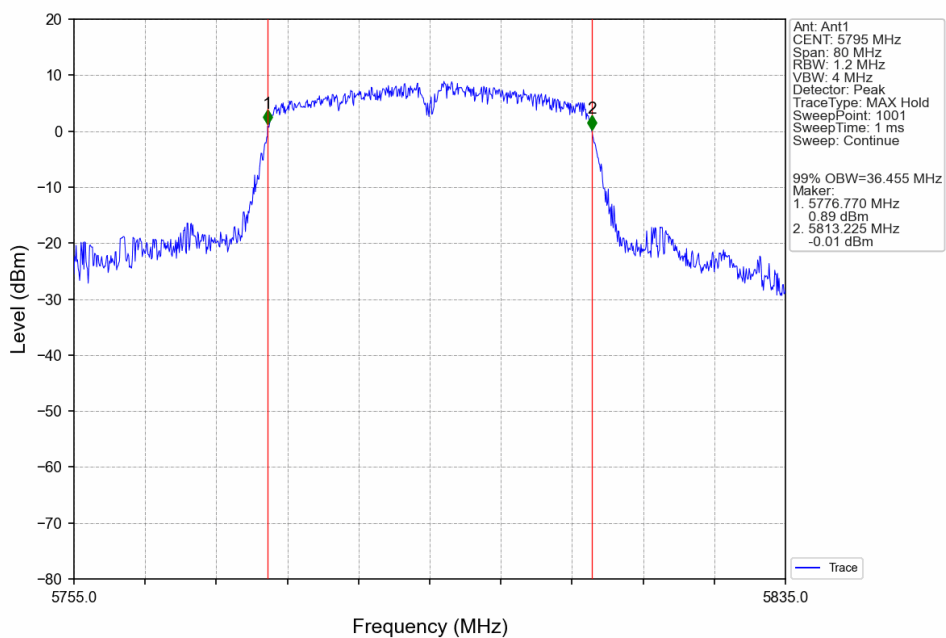


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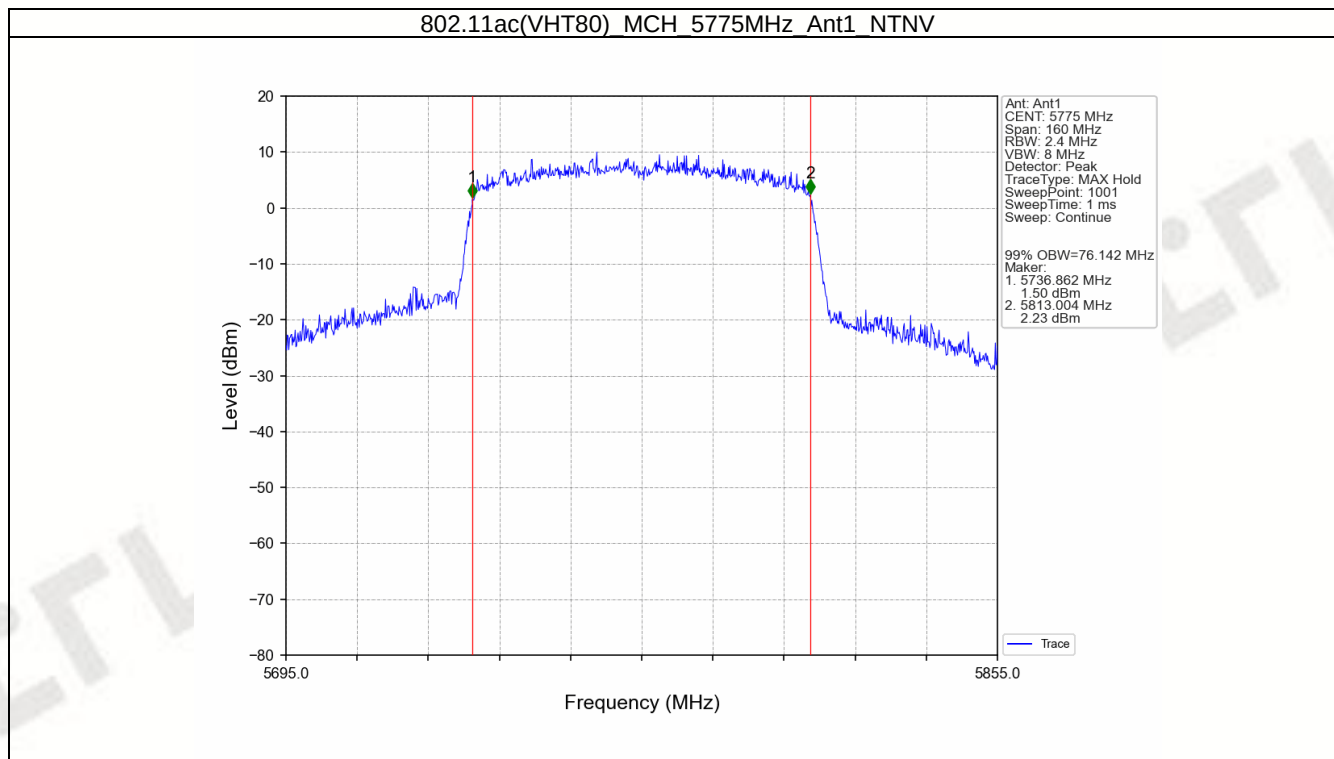
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN

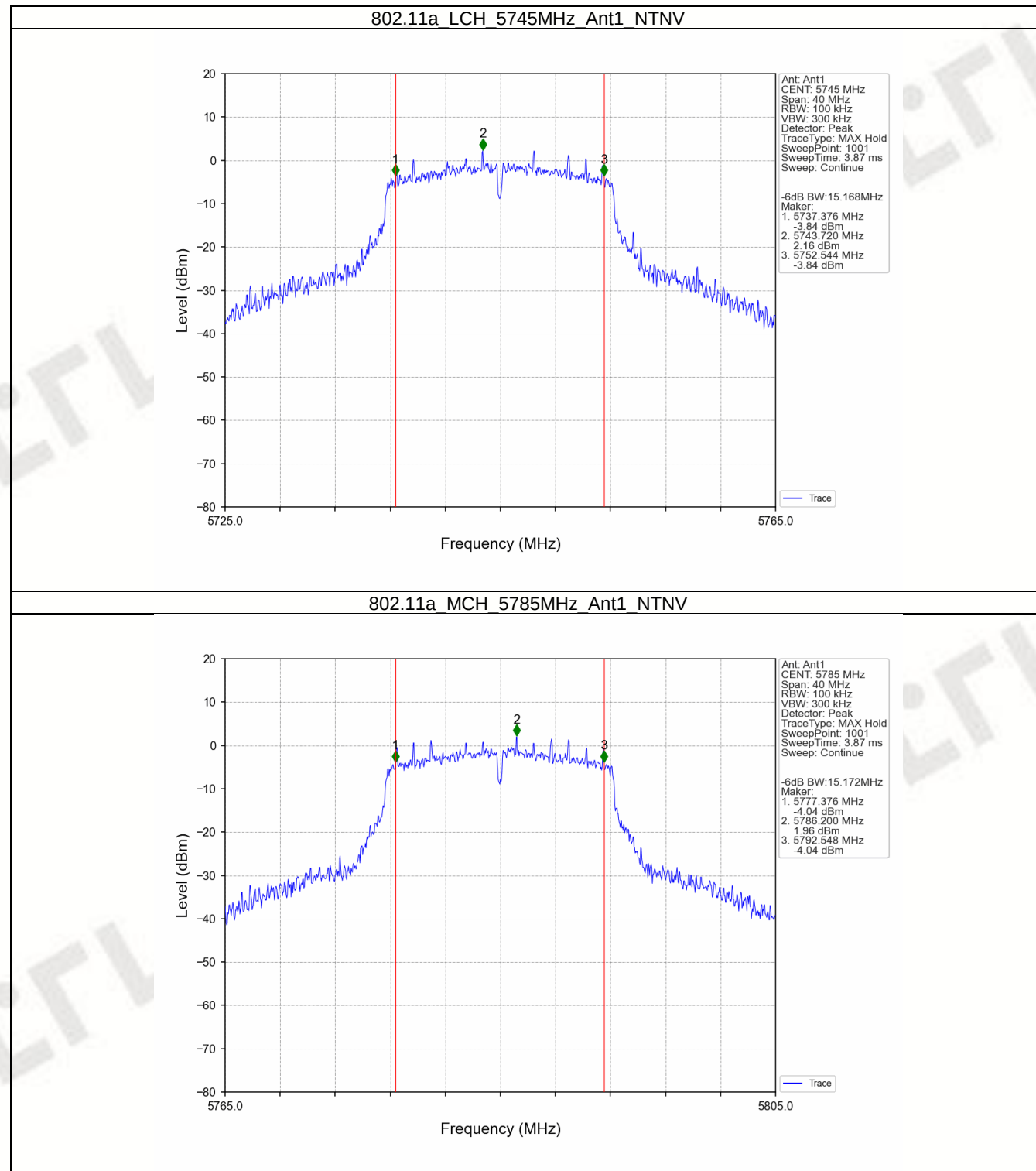


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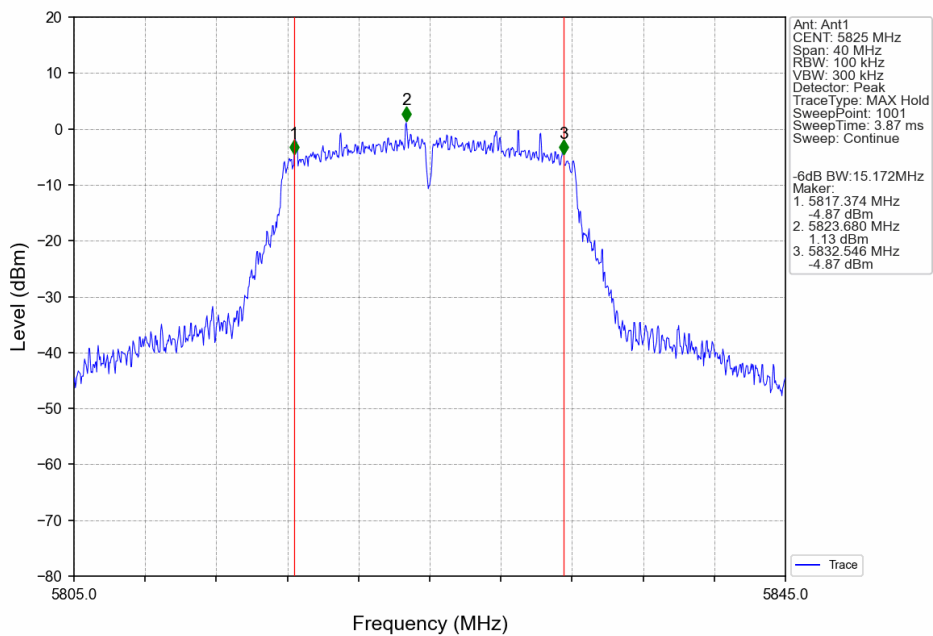
FCCID: 2AYHD-SR01

2.2.2 6dB BW

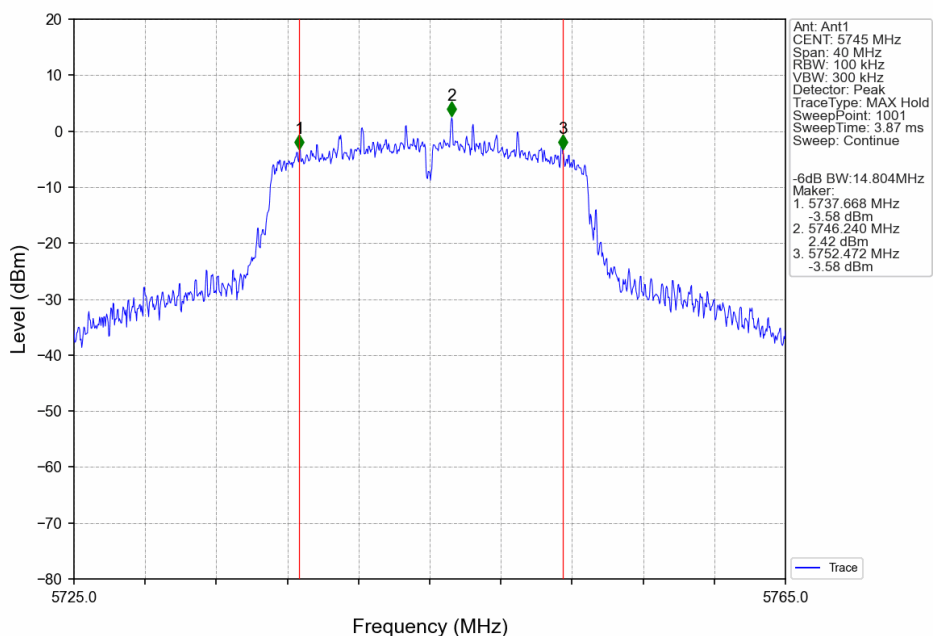


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802.11a HCH 5825MHz Ant1 NTN

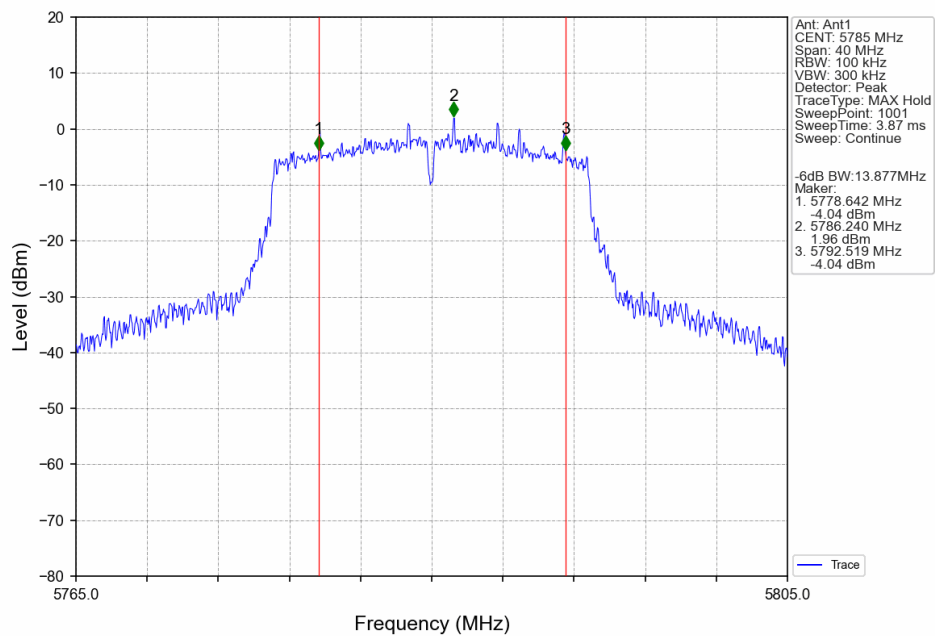


802.11n(HT20) LCH 5745MHz Ant1 NTN

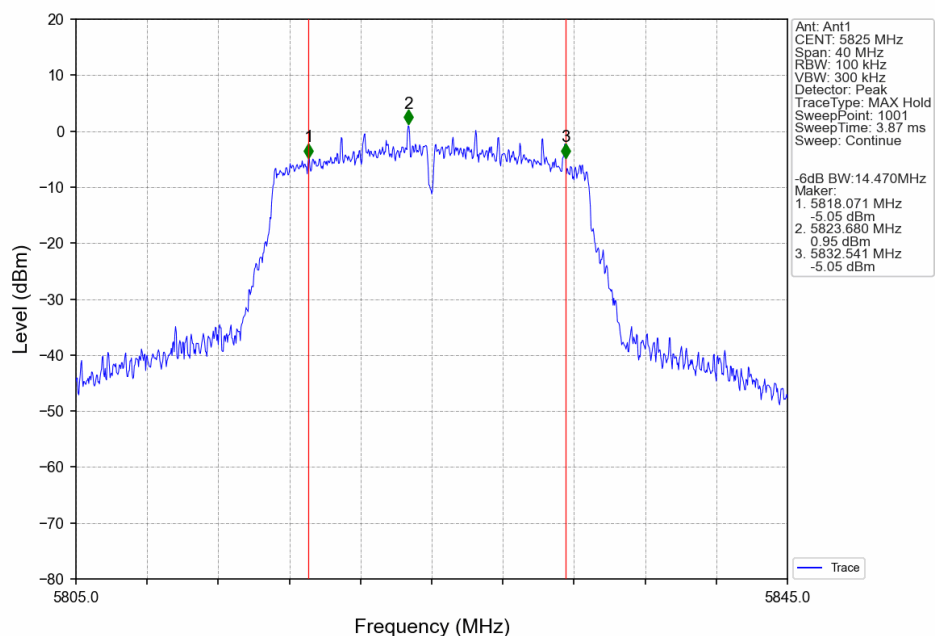


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802.11n(HT20) MCH 5785MHz Ant1 NTN

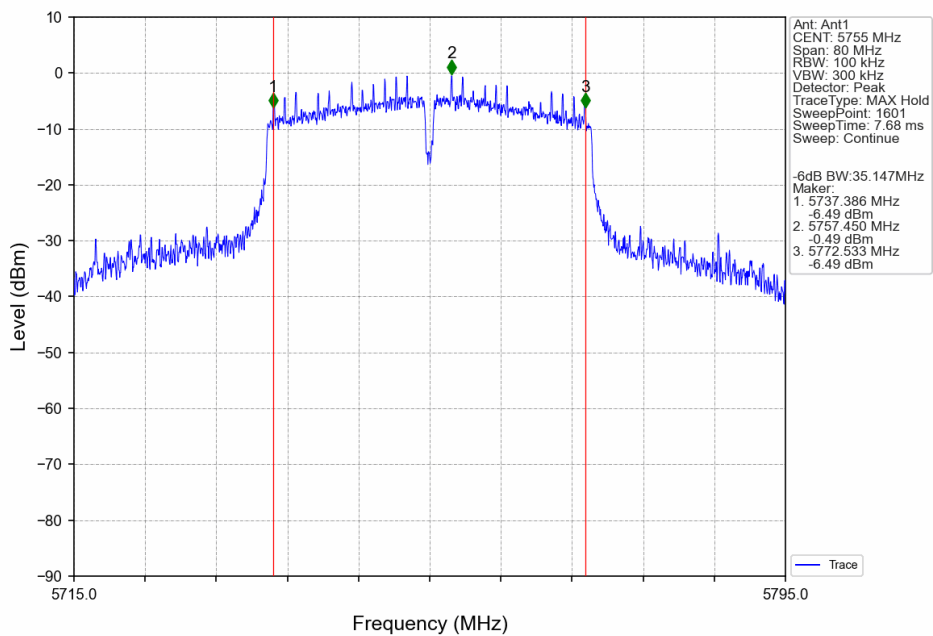


802.11n(HT20) HCH 5825MHz Ant1 NTN

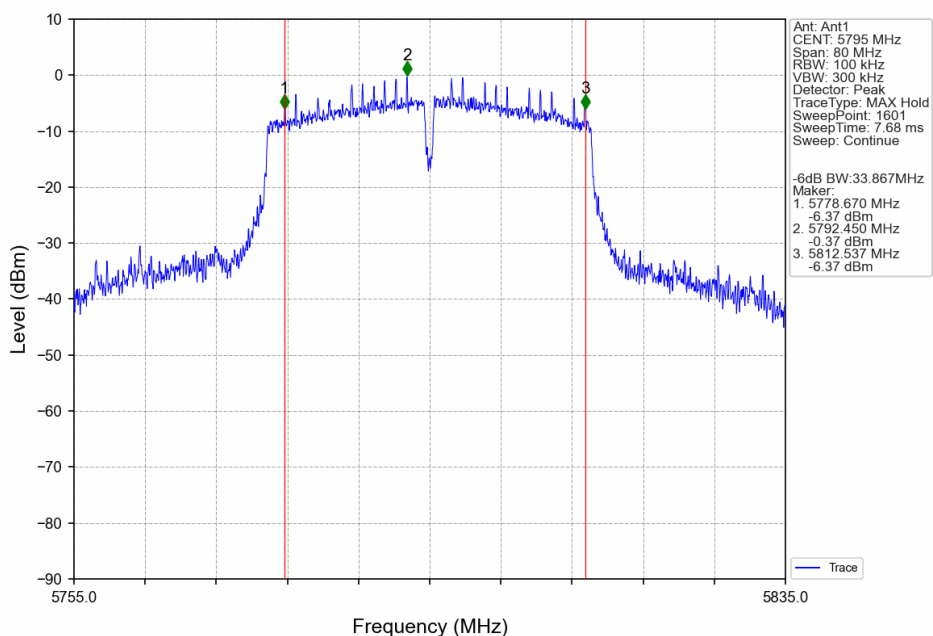


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802.11n(HT40) LCH 5755MHz Ant1 NTN

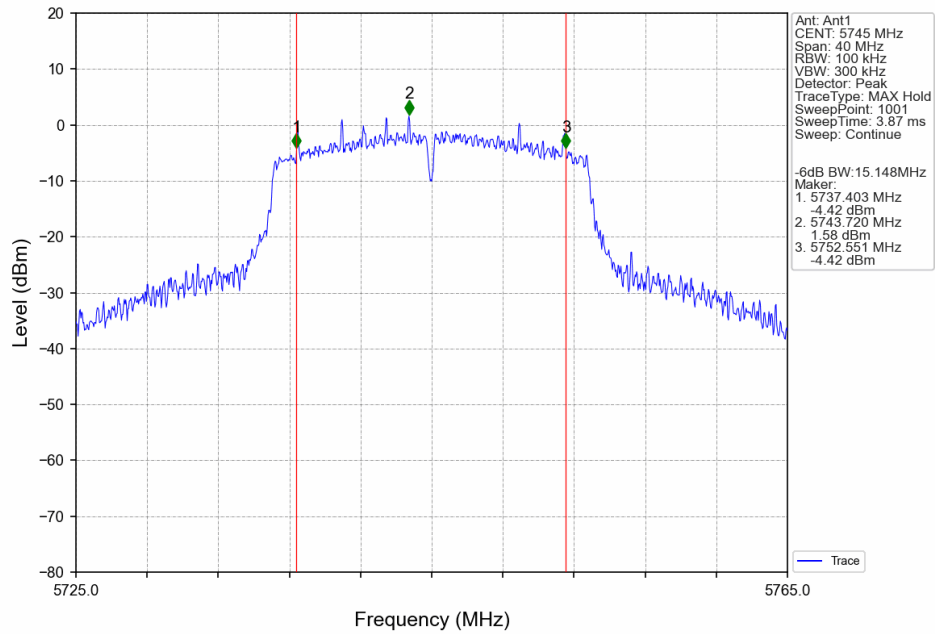


802.11n(HT40) HCH 5795MHz Ant1 NTN

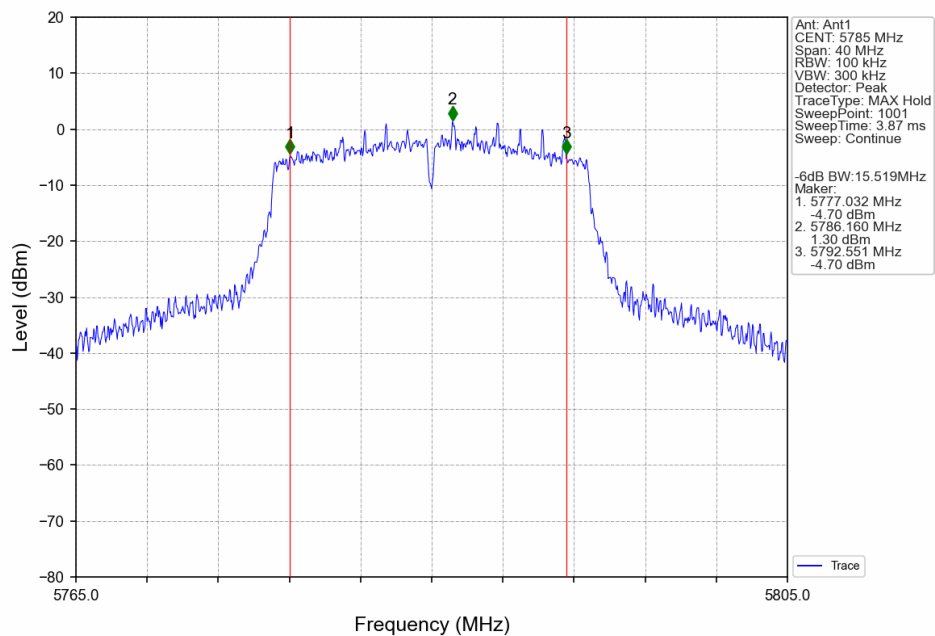


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802.11n(HT20) LCH 5745MHz Ant1 NTN

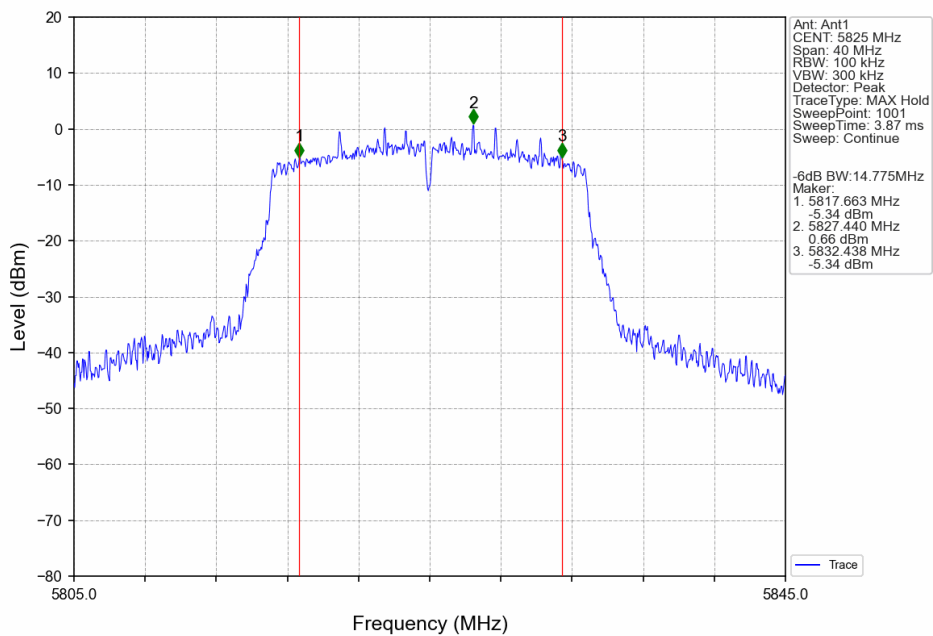


802.11n(HT20) MCH 5785MHz Ant1 NTN

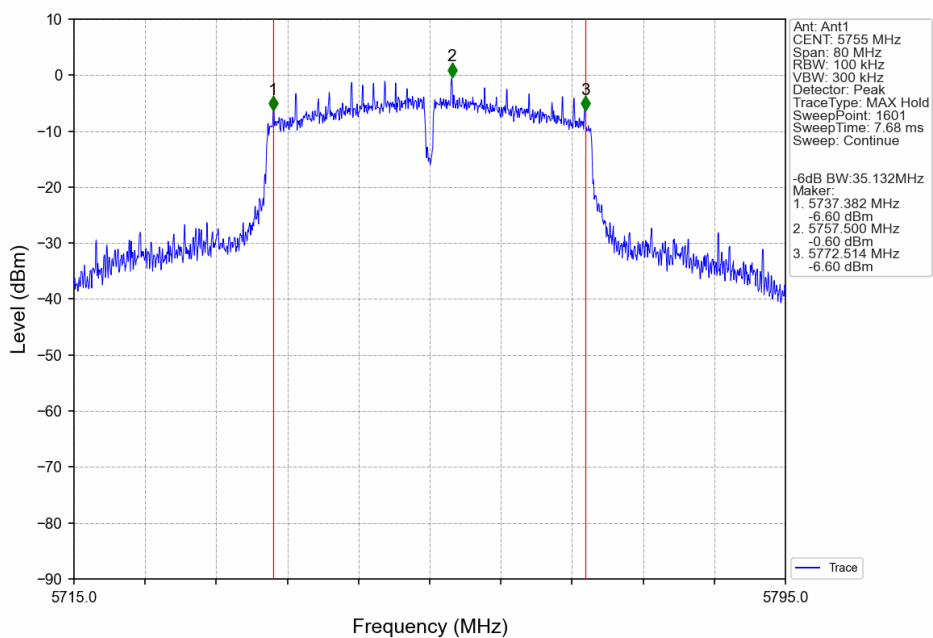


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802.11n(HT20) HCH 5825MHz Ant1 NTN

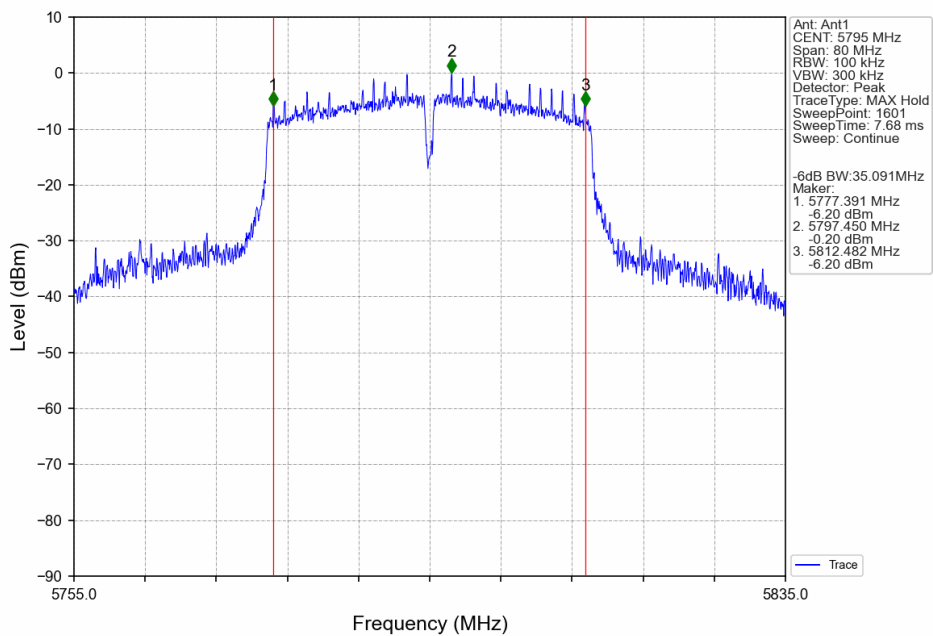


802.11n(HT40) LCH 5755MHz Ant1 NTN

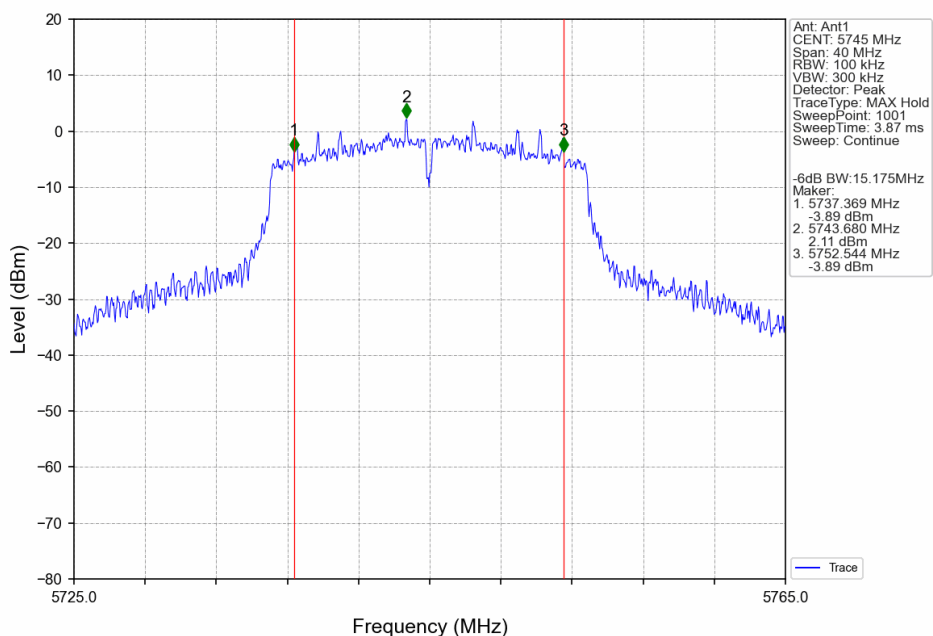


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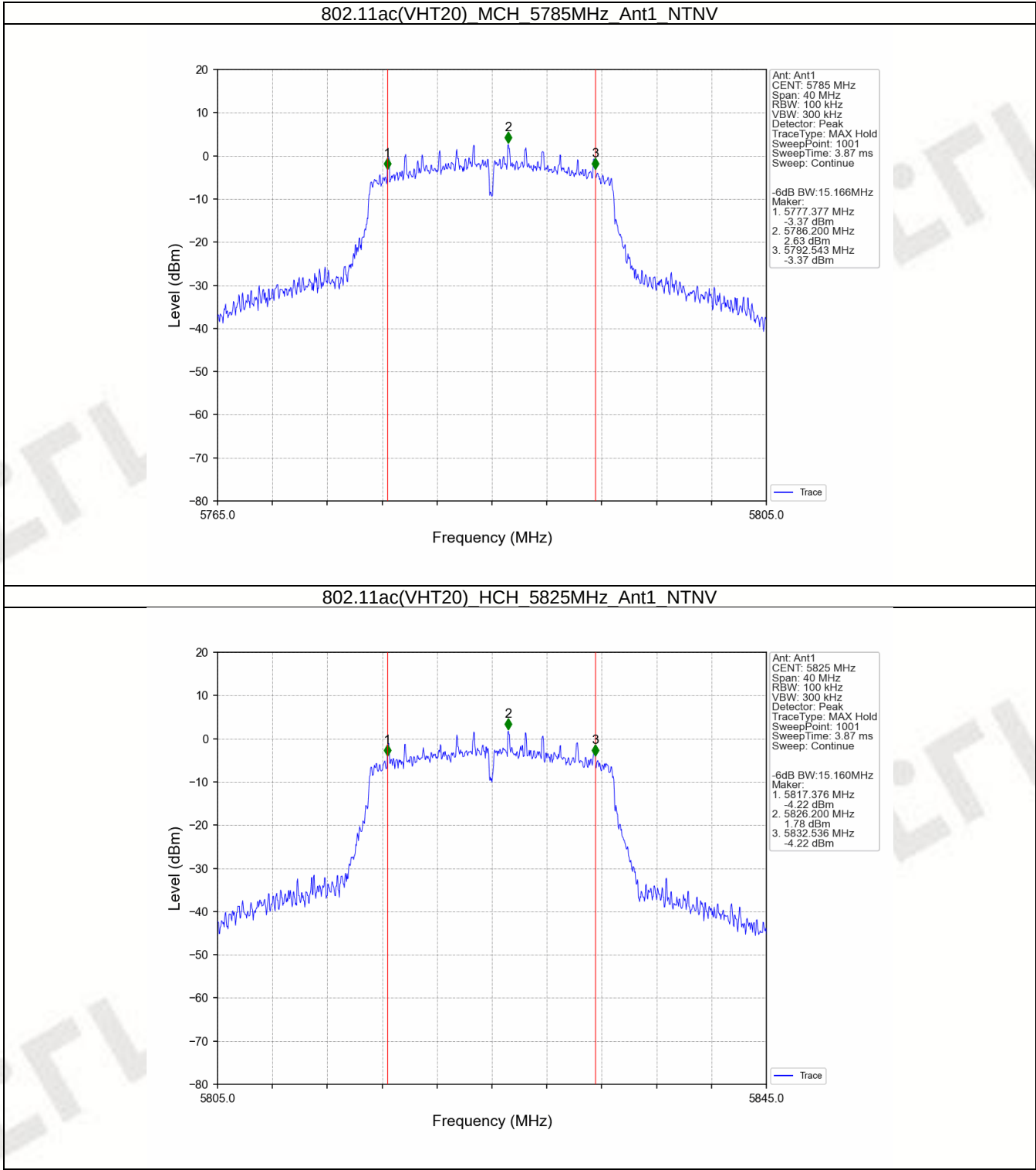
802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT20) LCH 5745MHz Ant1 NTN

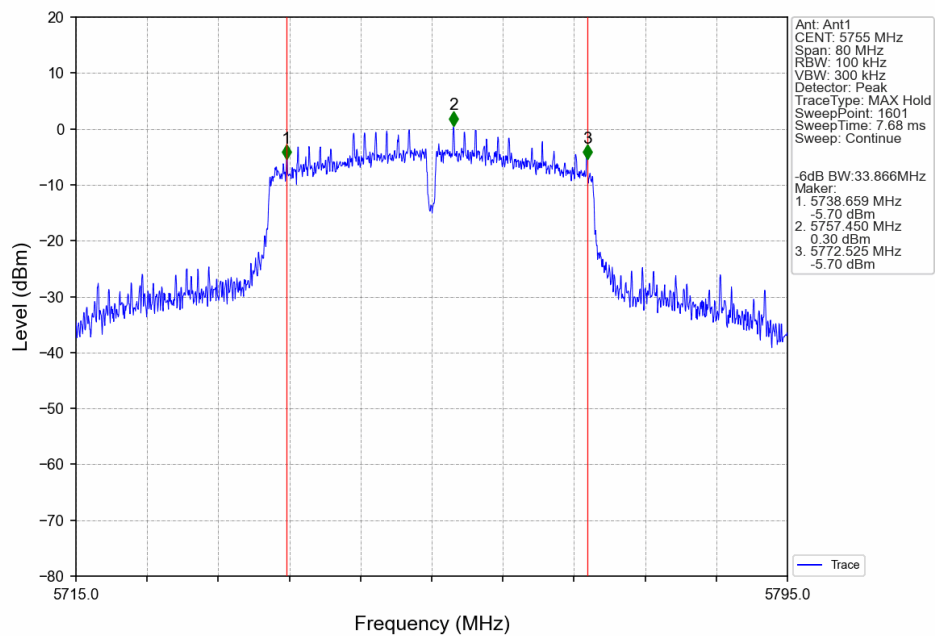


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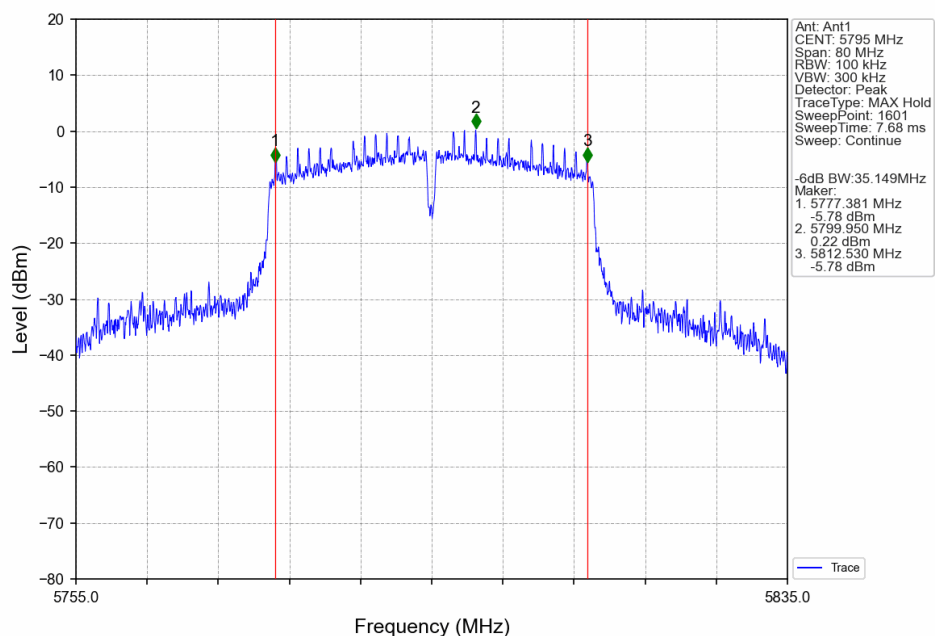


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802.11ac(VHT40) LCH 5755MHz Ant1 NTNV

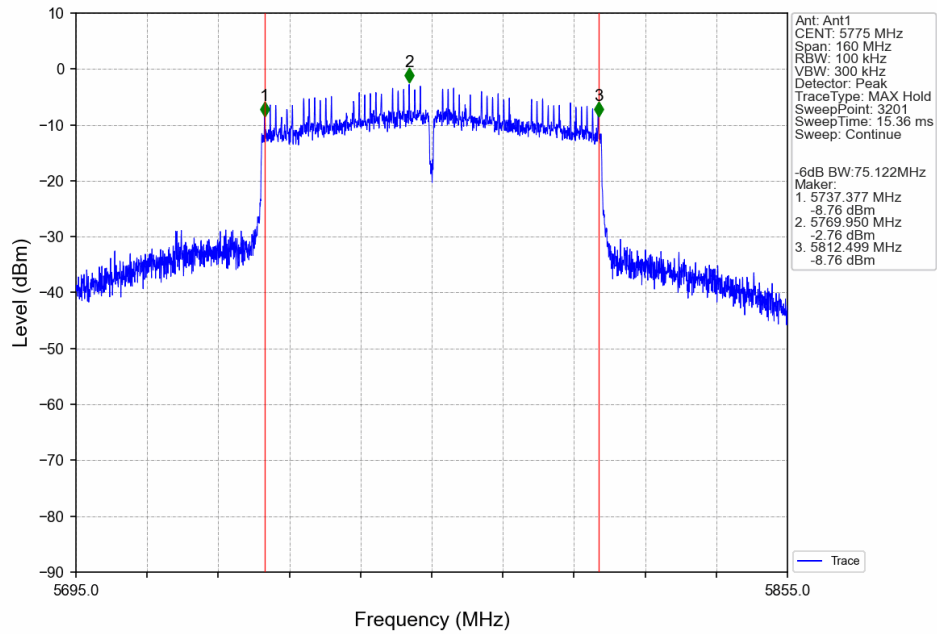


802.11ac(VHT40) HCH 5795MHz Ant1 NTNV

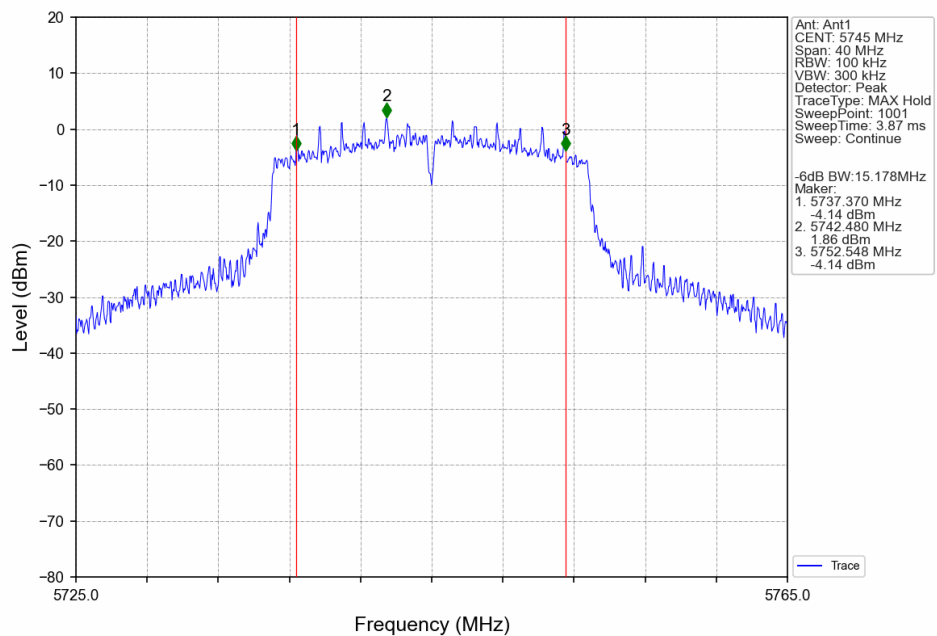


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802.11ac(VHT80) MCH 5775MHz Ant1 NTN

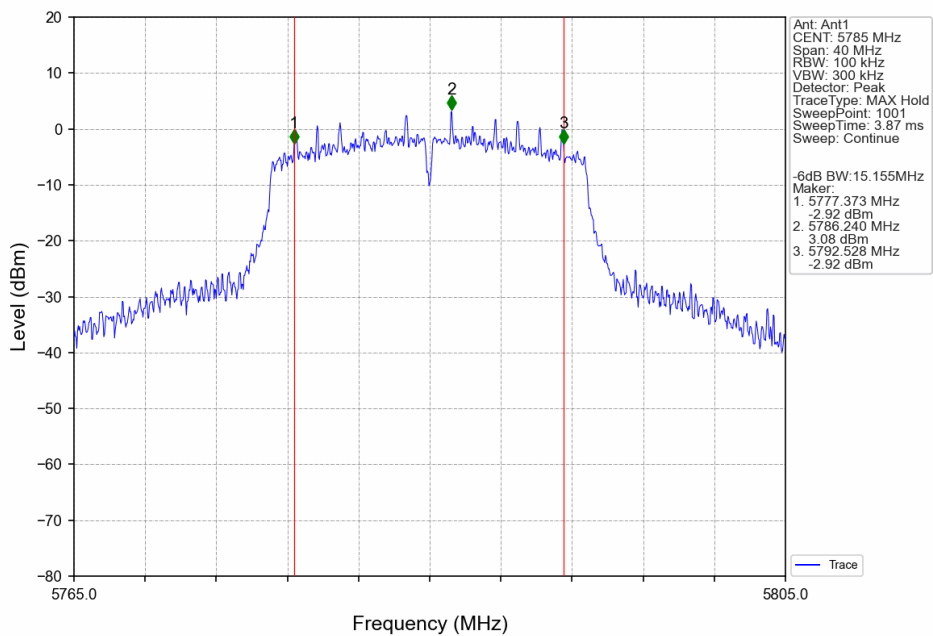


802.11ac(VHT20) LCH 5745MHz Ant1 NTN

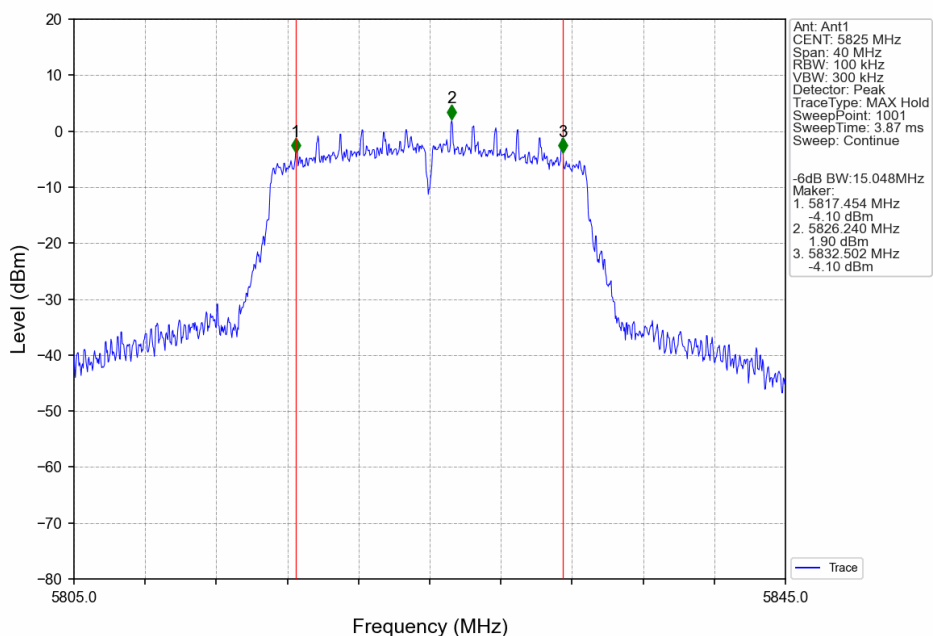


FCCID: 2AYHD-SR01

802.11ac(VHT20) MCH 5785MHz Ant1 NTNV



802.11ac(VHT20) HCH 5825MHz Ant1 NTNV



FCCID: 2AYHD-SR01

