

Appendix - 5G WIFI

1. Duty Cycle

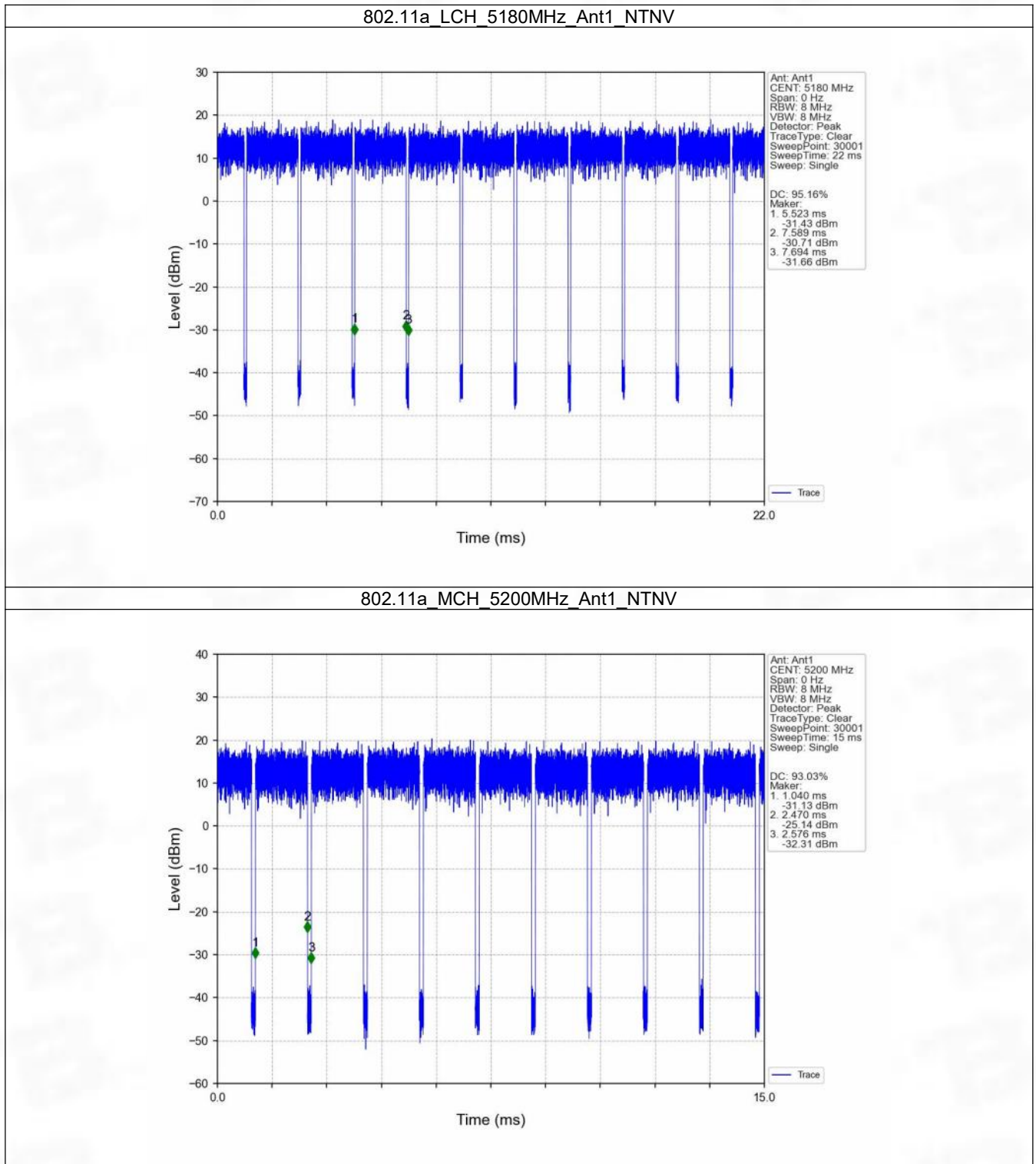
1.1 Test Result

1.1.1 Ant1

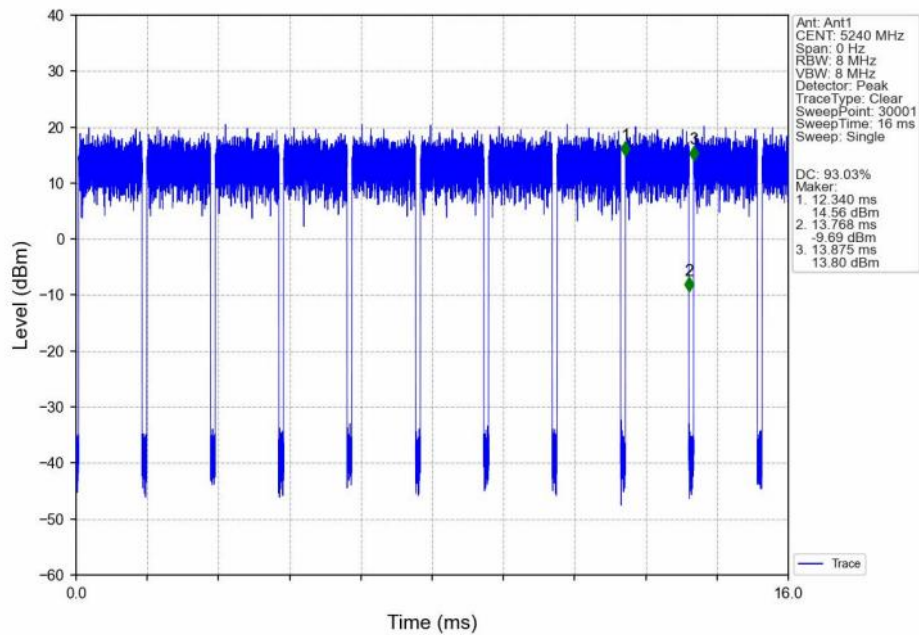
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.066	2.171	95.16	0.22	0.03
		5200	/	/	1.429	1.536	93.03	0.31	0.06
		5240	/	/	1.428	1.535	93.03	0.31	0.07
		5745	/	/	1.430	1.536	93.10	0.31	0.07
		5785	/	/	1.430	1.537	93.04	0.31	0.10
		5825	/	/	1.428	1.536	92.97	0.32	0.07
802.11n (HT20)	SISO	5180	/	/	1.336	1.436	93.04	0.31	0.10
		5200	/	/	1.336	1.435	93.10	0.31	0.06
		5240	/	/	1.337	1.436	93.11	0.31	0.10
		5745	/	/	1.337	1.436	93.11	0.31	0.07
		5785	/	/	1.338	1.436	93.18	0.31	0.06
		5825	/	/	1.338	1.436	93.18	0.31	0.03
802.11n (HT40)	SISO	5190	/	/	0.664	0.763	87.02	0.60	0.03
		5230	/	/	0.666	0.764	87.17	0.60	0.06
		5755	/	/	0.664	0.763	87.02	0.60	0.04
		5795	/	/	0.666	0.764	87.17	0.60	0.10
802.11ac (VHT20)	SISO	5180	/	/	0.697	0.726	96.01	0.18	0.03
		5200	/	/	0.697	0.726	96.01	0.18	0.06
		5240	/	/	0.698	0.726	96.14	0.17	0.09
		5745	/	/	0.697	0.726	96.01	0.18	0.06
		5785	/	/	0.696	0.726	95.87	0.18	0.03
		5825	/	/	0.696	0.725	96.00	0.18	0.00
802.11ac (VHT40)	SISO	5190	/	/	0.362	0.390	92.82	0.32	0.10
		5230	/	/	0.360	0.390	92.31	0.35	0.10
		5755	/	/	0.362	0.390	92.82	0.32	0.03
		5795	/	/	0.362	0.390	92.82	0.32	0.06
802.11ac (VHT80)	SISO	5210	/	/	0.194	0.222	87.39	0.59	0.11
		5775	/	/	0.192	0.222	86.49	0.63	0.19
802.11ax (HEW20)	SISO	5180	SU	/	0.570	0.602	94.68	0.24	0.07
		5200	SU	/	0.570	0.603	94.53	0.24	0.07
		5240	SU	/	0.570	0.603	94.53	0.24	0.10
		5745	SU	/	0.570	0.603	94.53	0.24	0.10
		5785	SU	/	0.570	0.603	94.53	0.24	0.06
		5825	SU	/	0.570	0.602	94.68	0.24	0.07
802.11ax (HEW40)	SISO	5190	SU	/	0.325	0.354	91.81	0.37	0.08
		5230	SU	/	0.325	0.355	91.55	0.38	0.11
		5755	SU	/	0.325	0.354	91.81	0.37	0.04
		5795	SU	/	0.325	0.355	91.55	0.38	0.07
802.11ax (HEW80)	SISO	5210	SU	/	0.189	0.219	86.30	0.64	0.07
		5775	SU	/	0.190	0.218	87.16	0.60	0.12

1.2 Test Graph

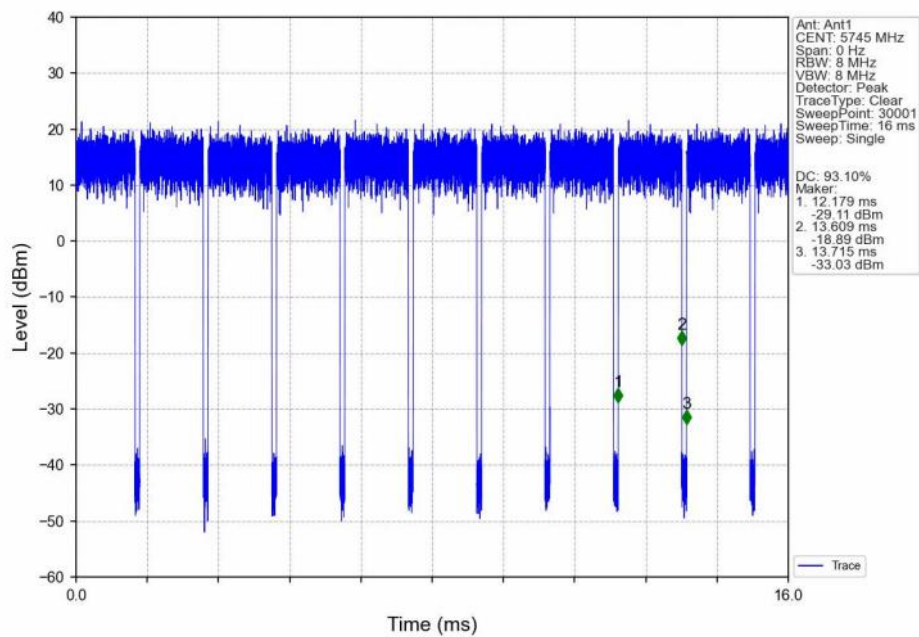
1.2.1 Ant1



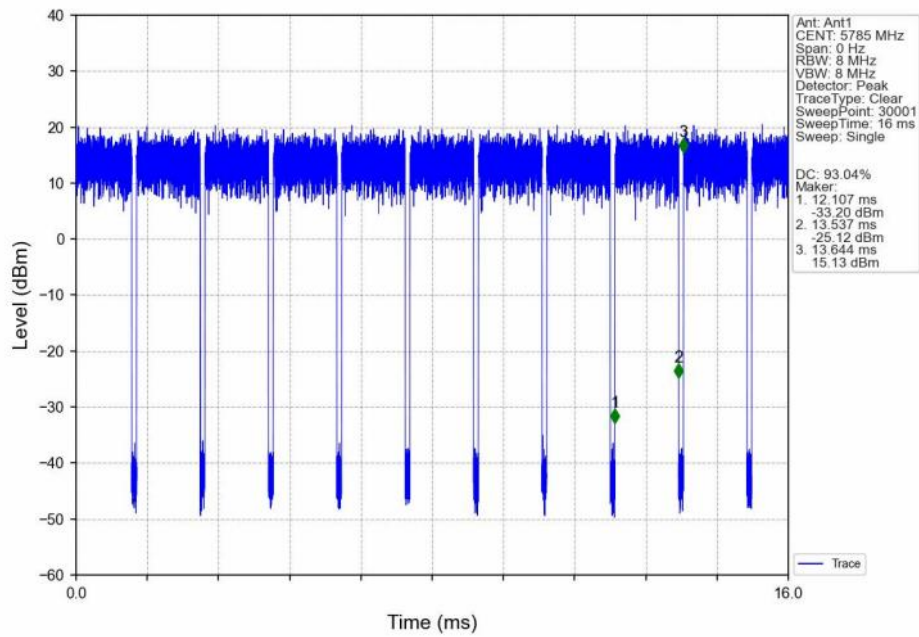
802.11a_HCH_5240MHz_Ant1_NTNV



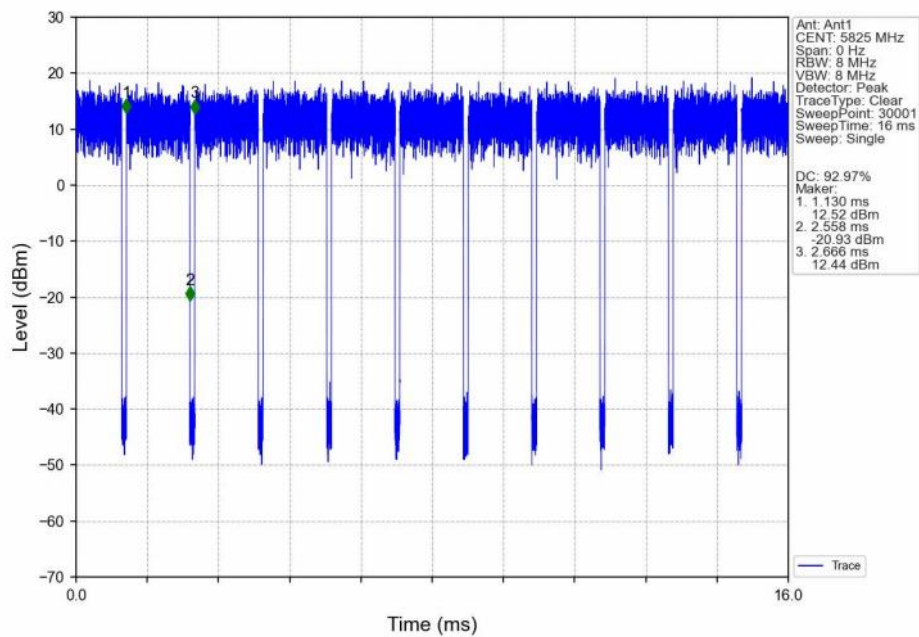
802.11a_LCH_5745MHz_Ant1_NTNV



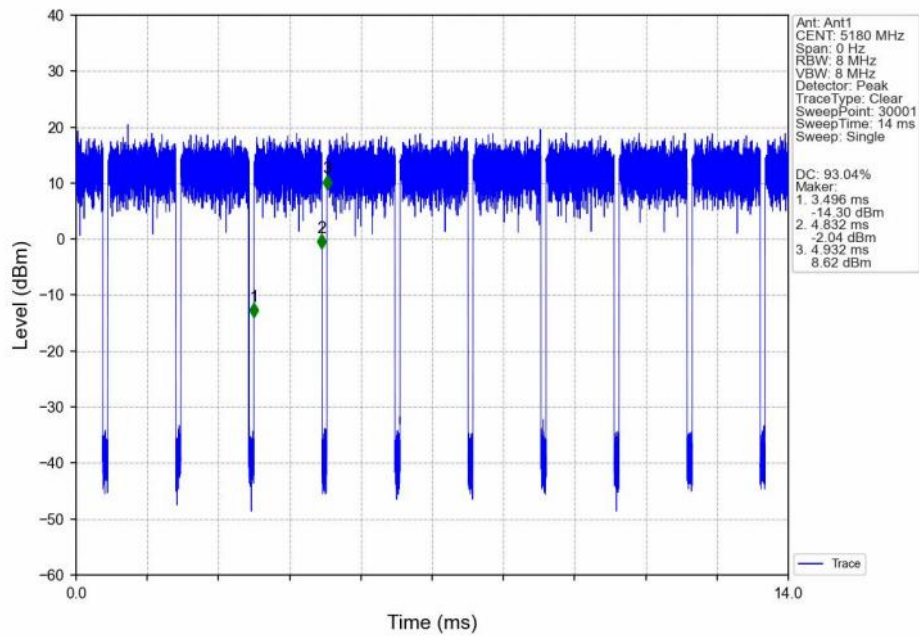
802.11a_MCH_5785MHz_Ant1_NTNV



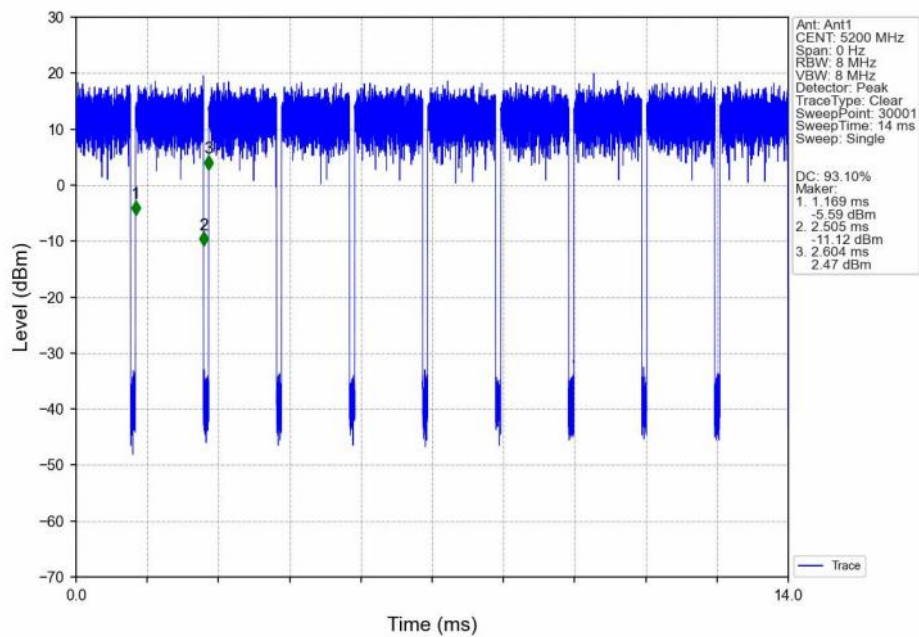
802.11a_HCH_5825MHz_Ant1_NTNV



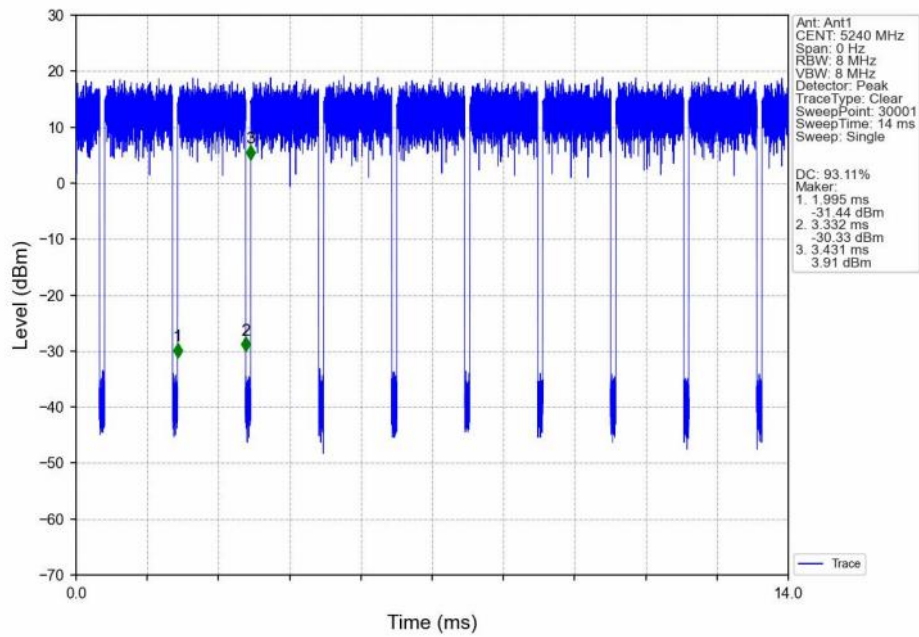
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



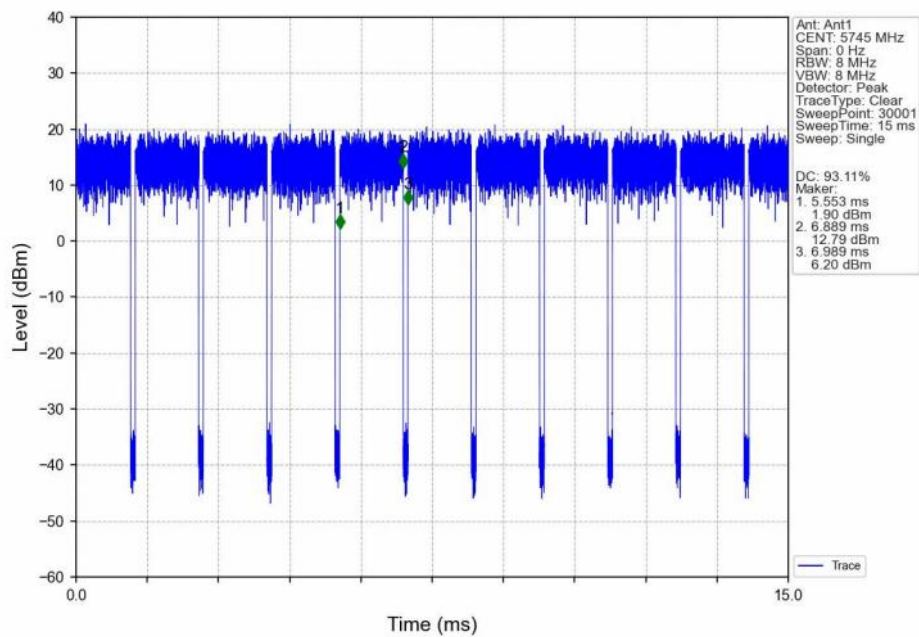
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



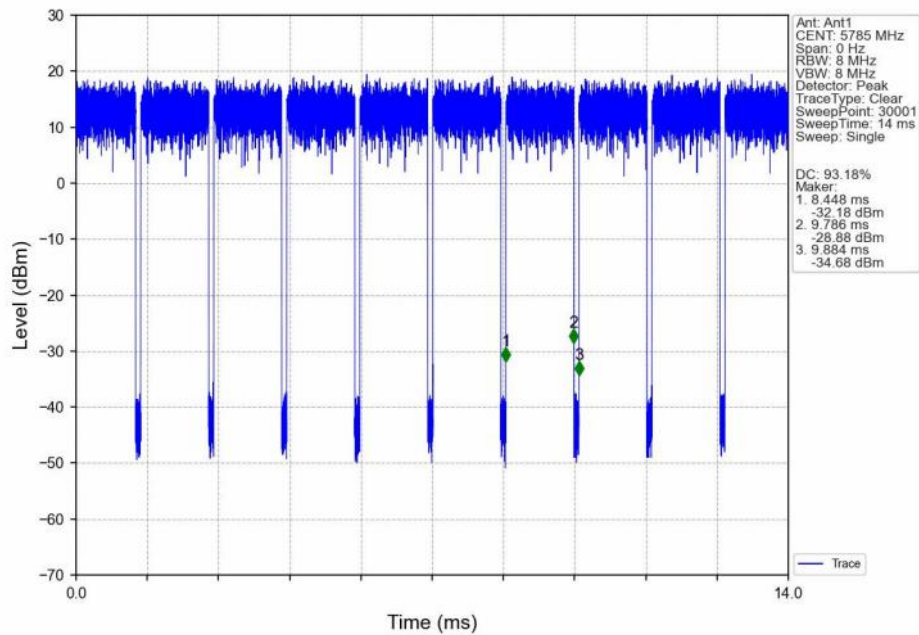
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



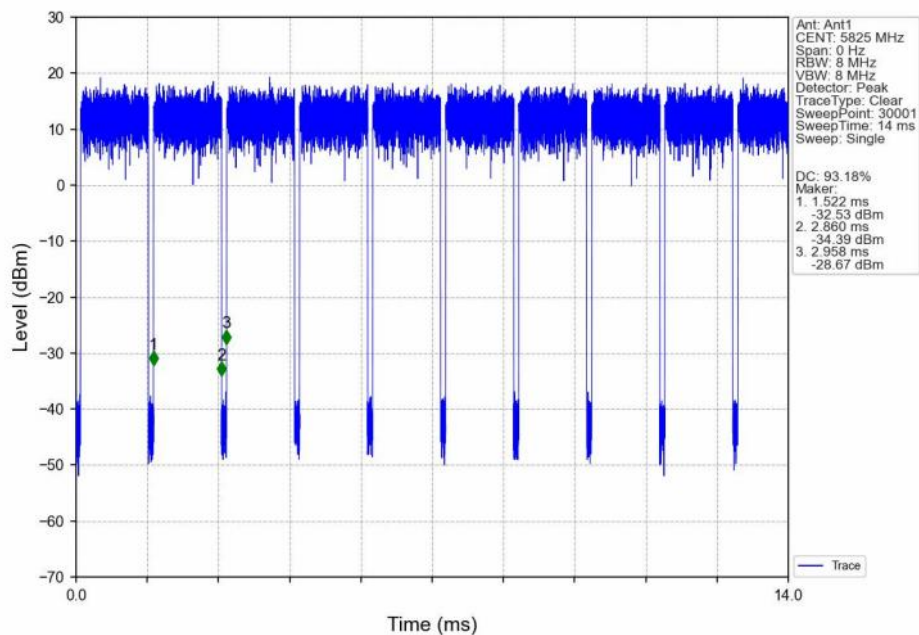
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



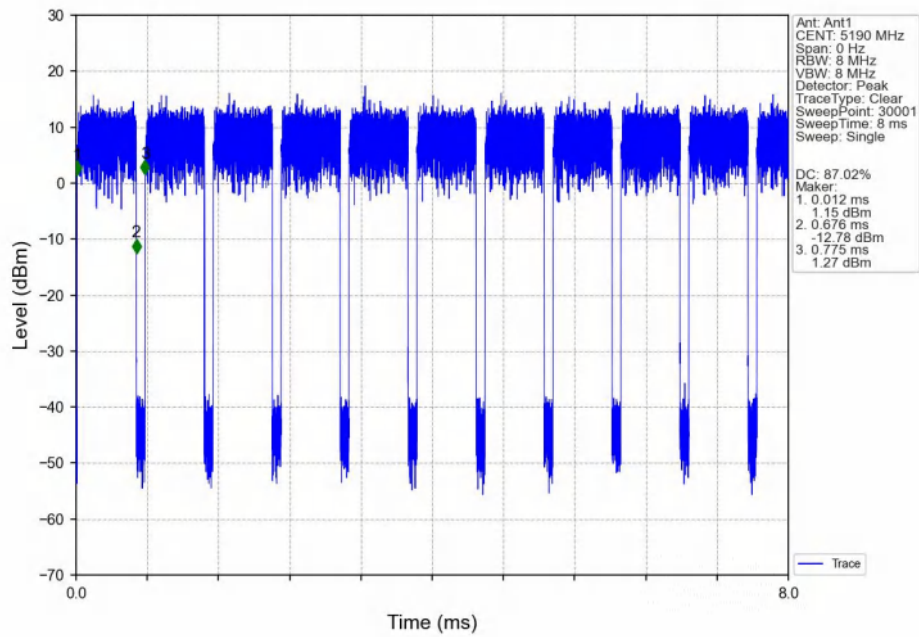
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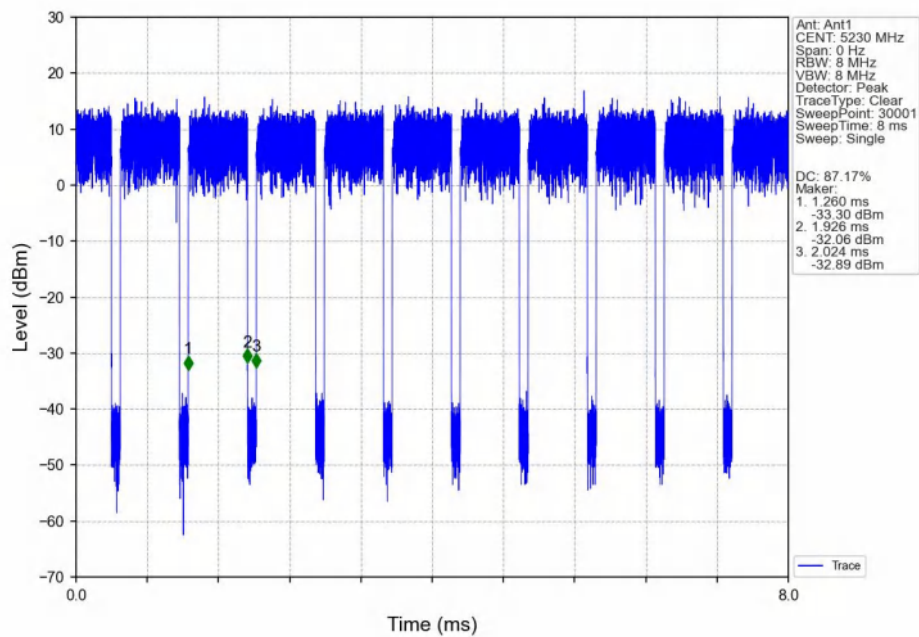
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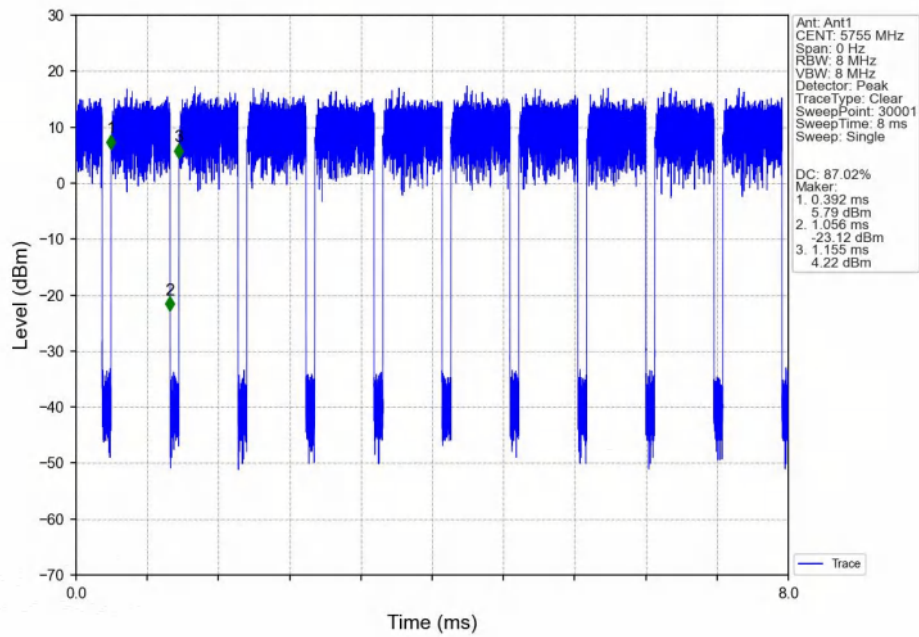
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



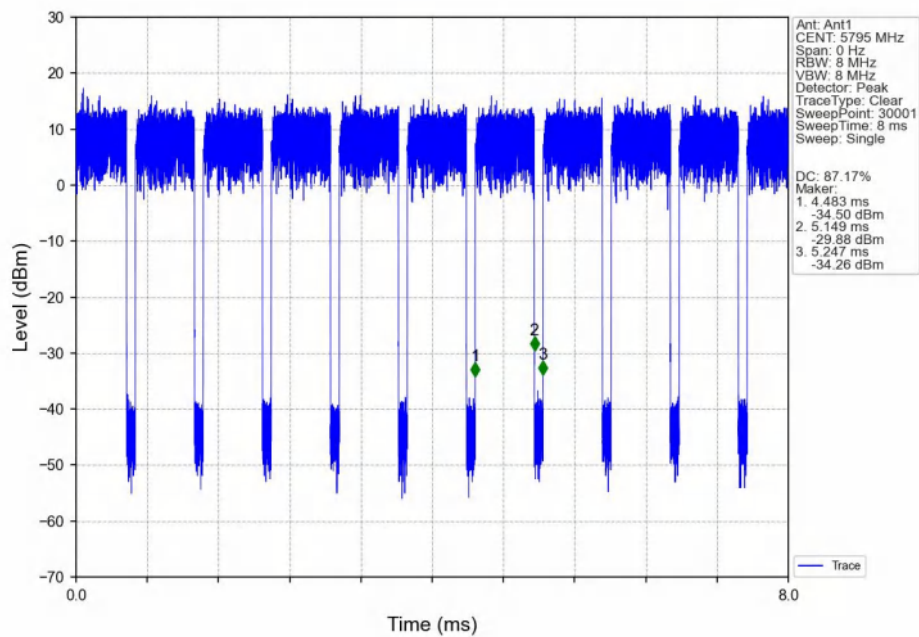
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



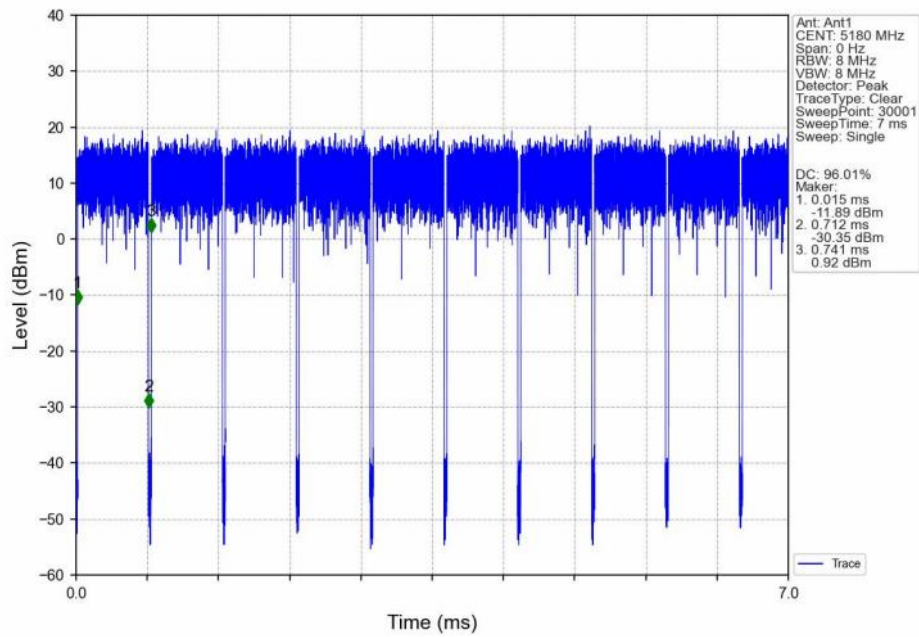
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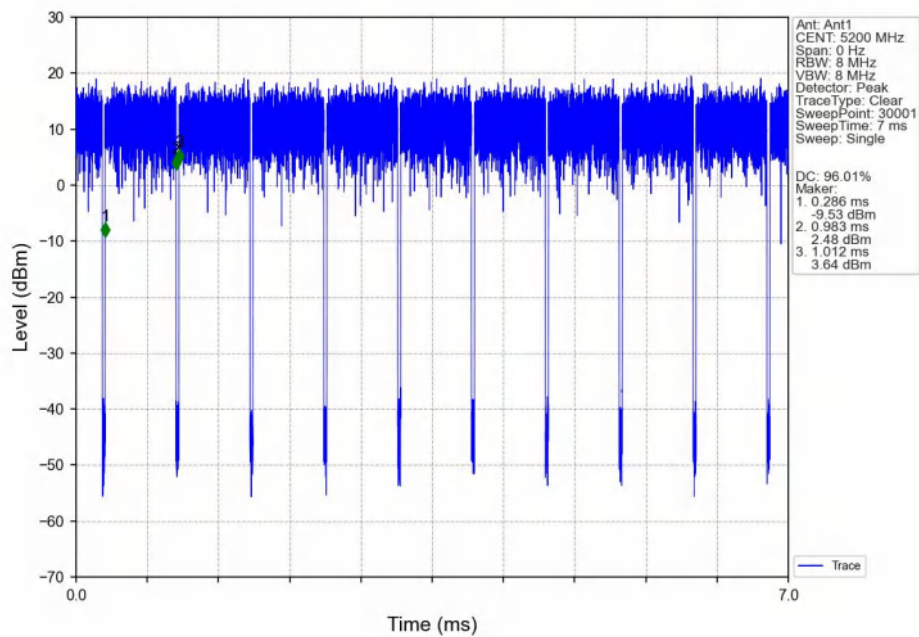
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



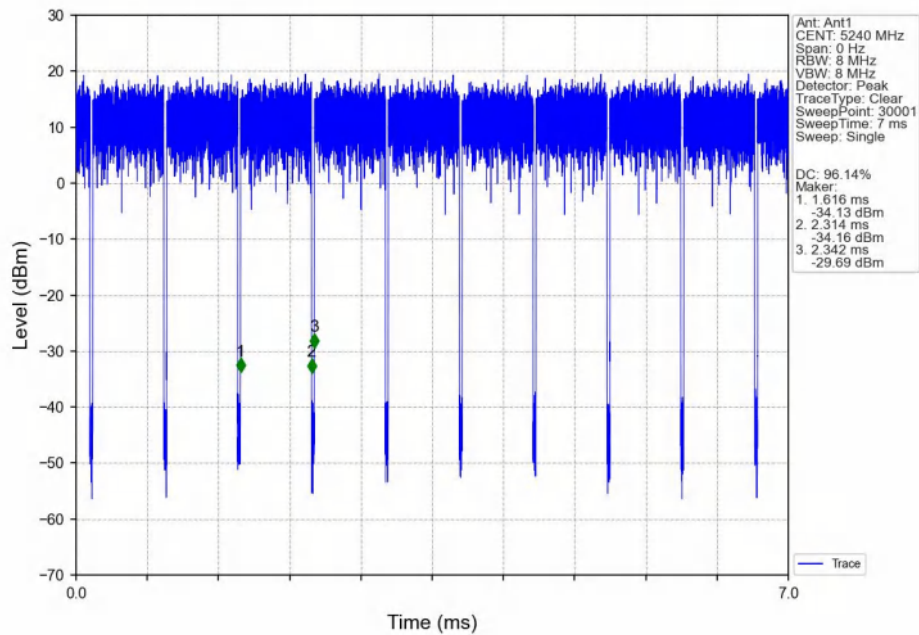
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



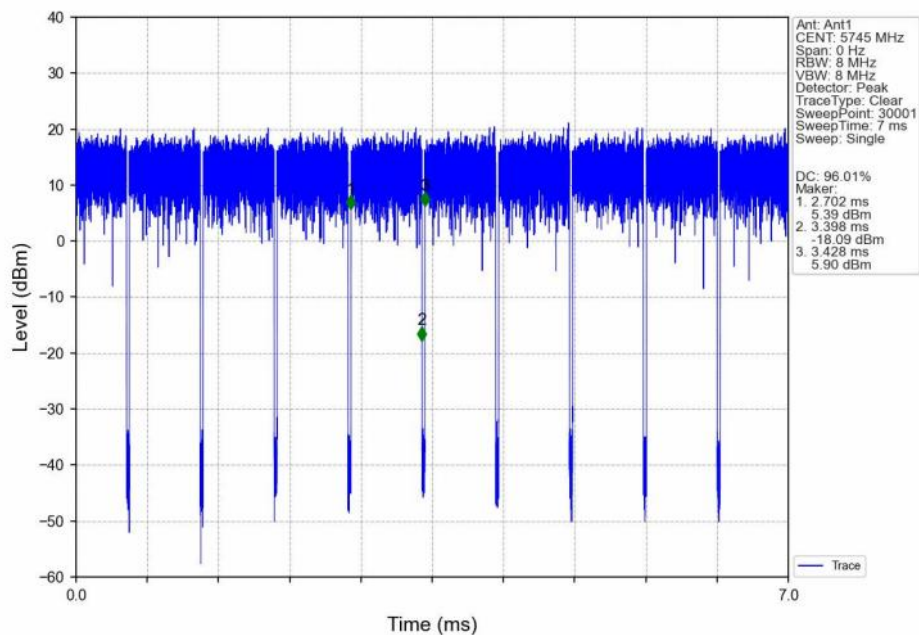
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



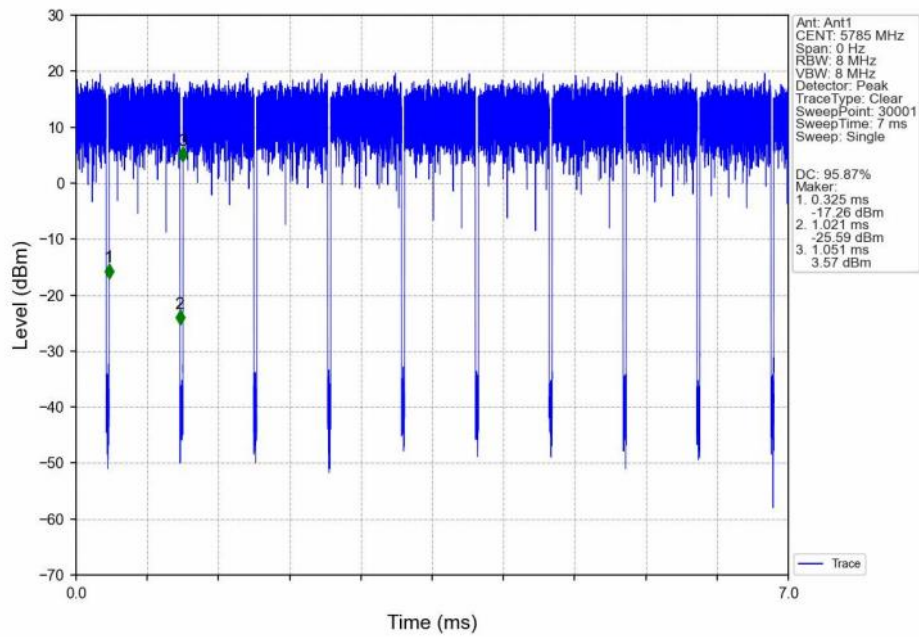
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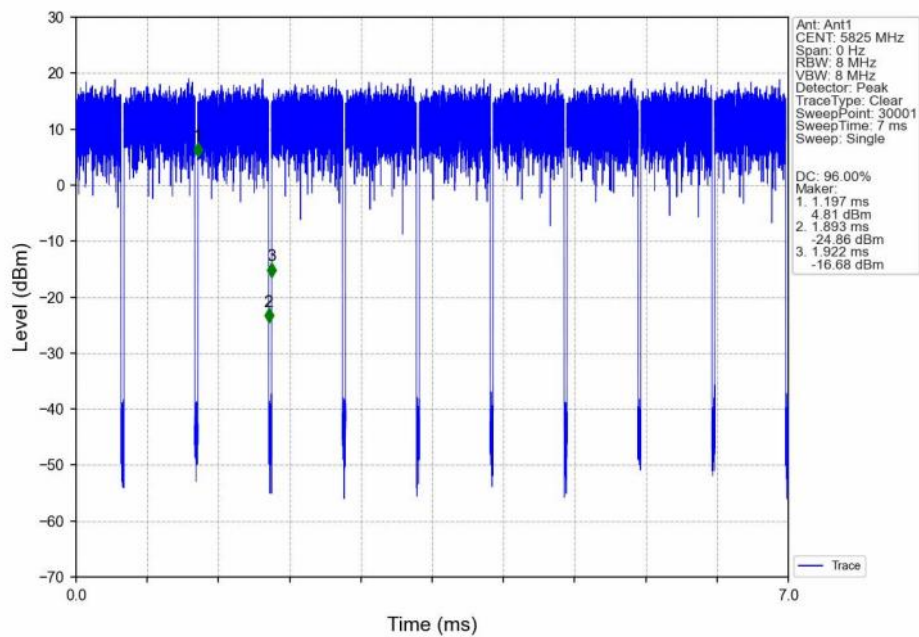
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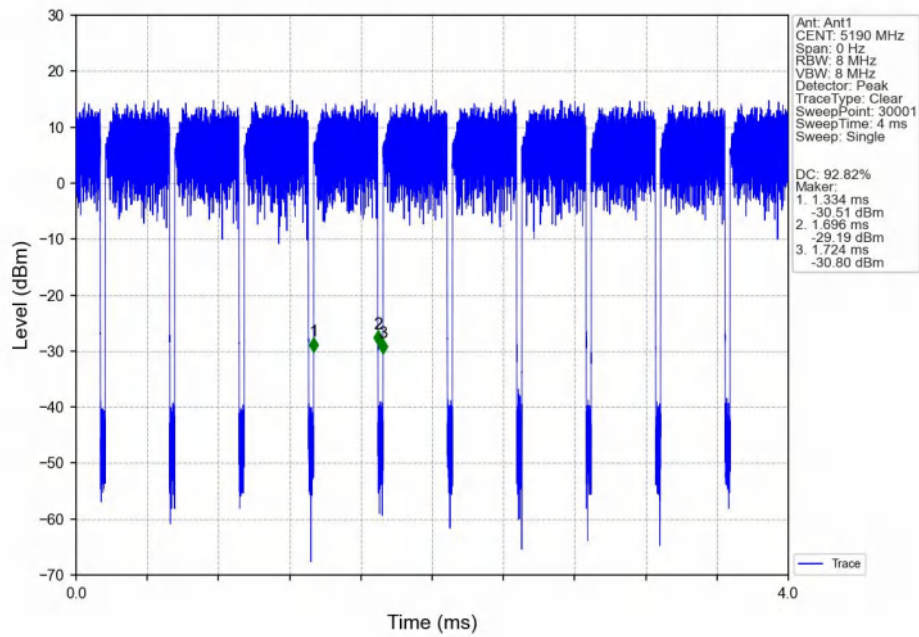
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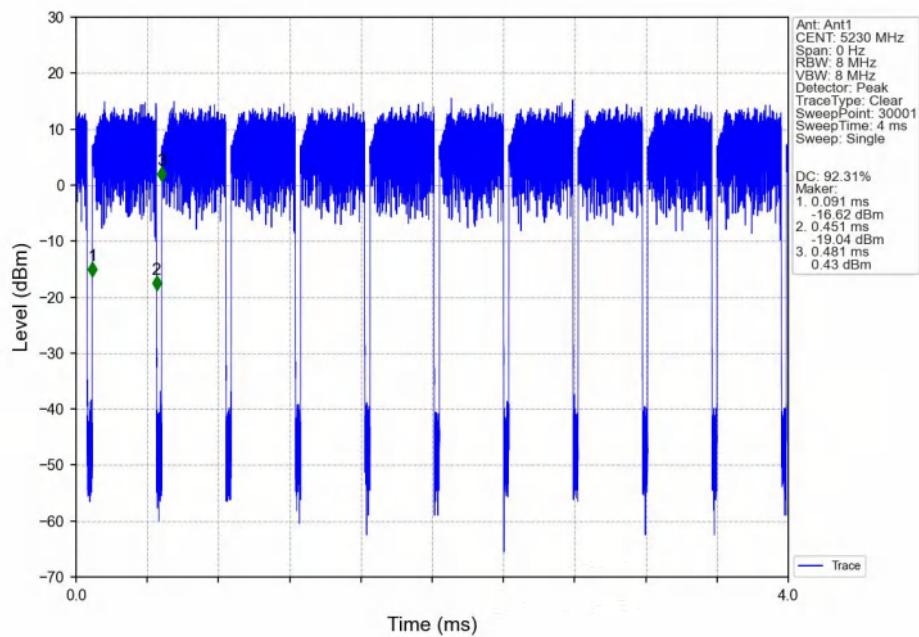
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



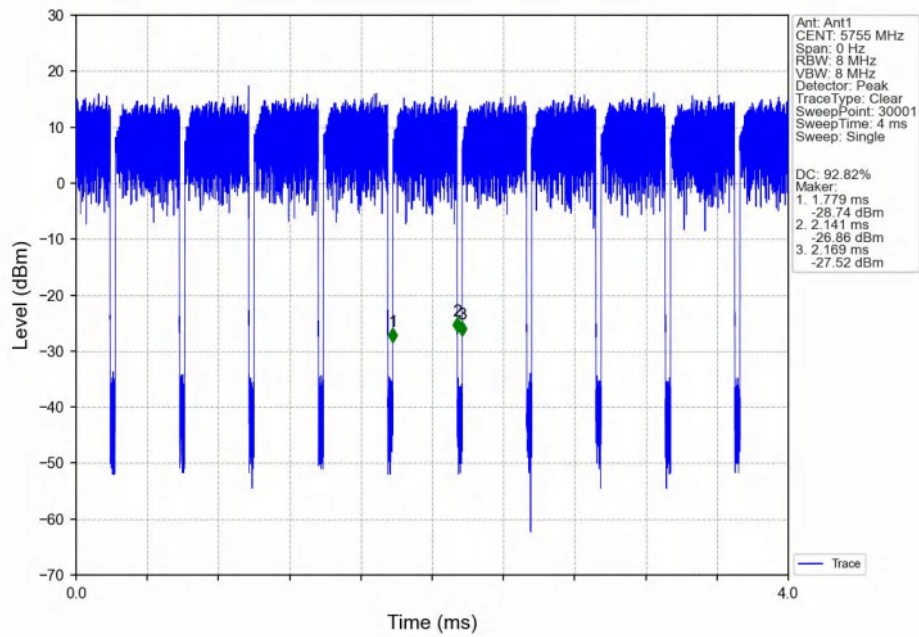
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



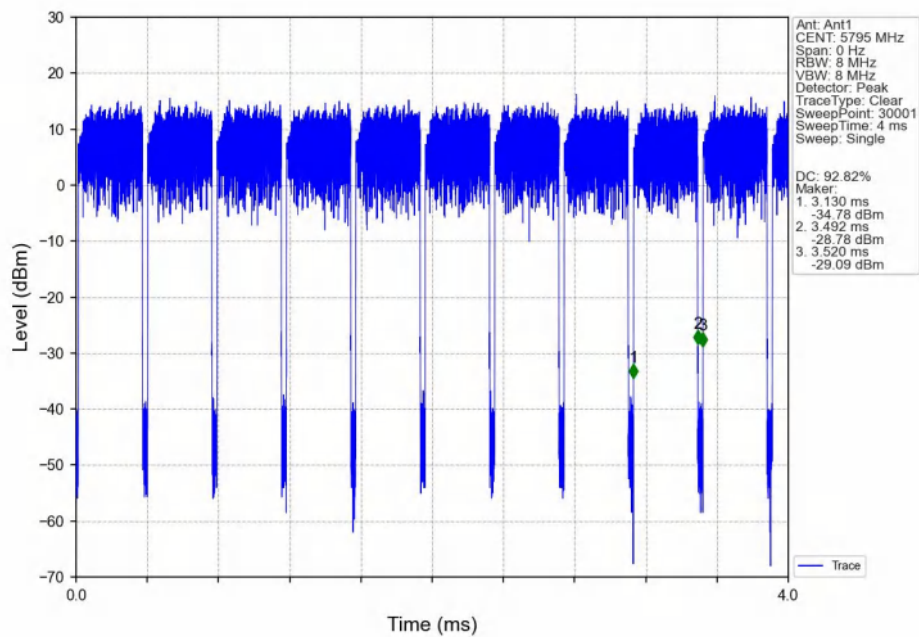
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



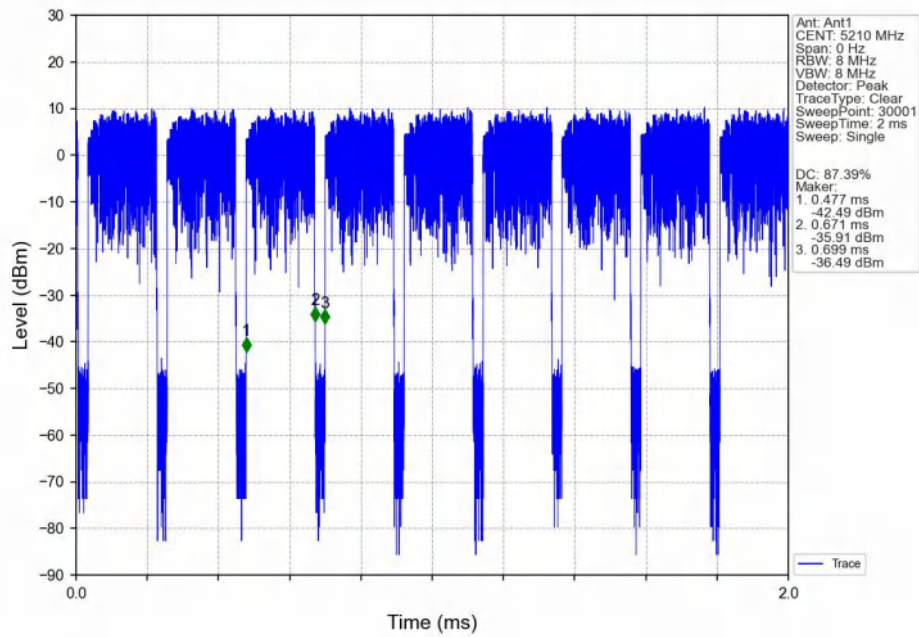
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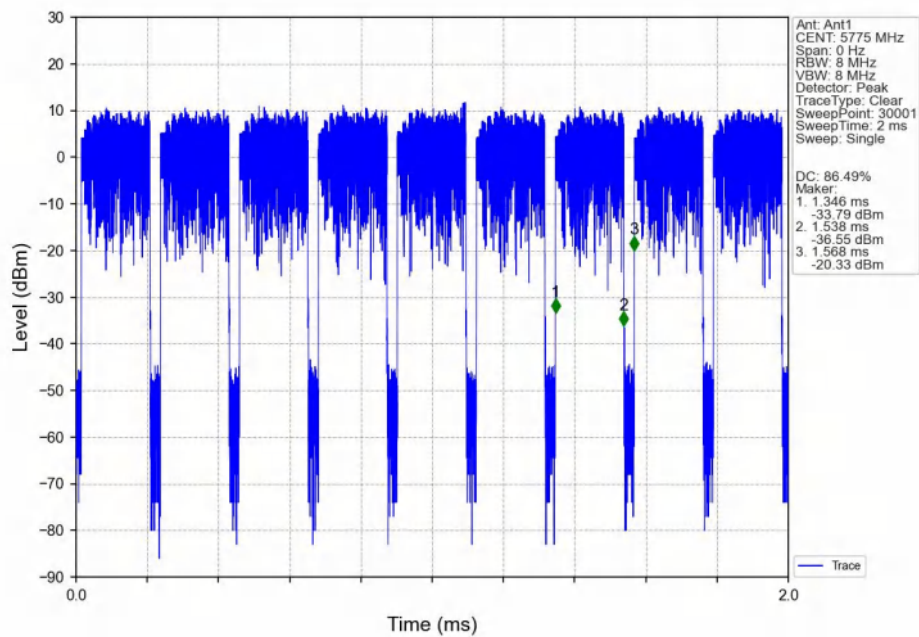
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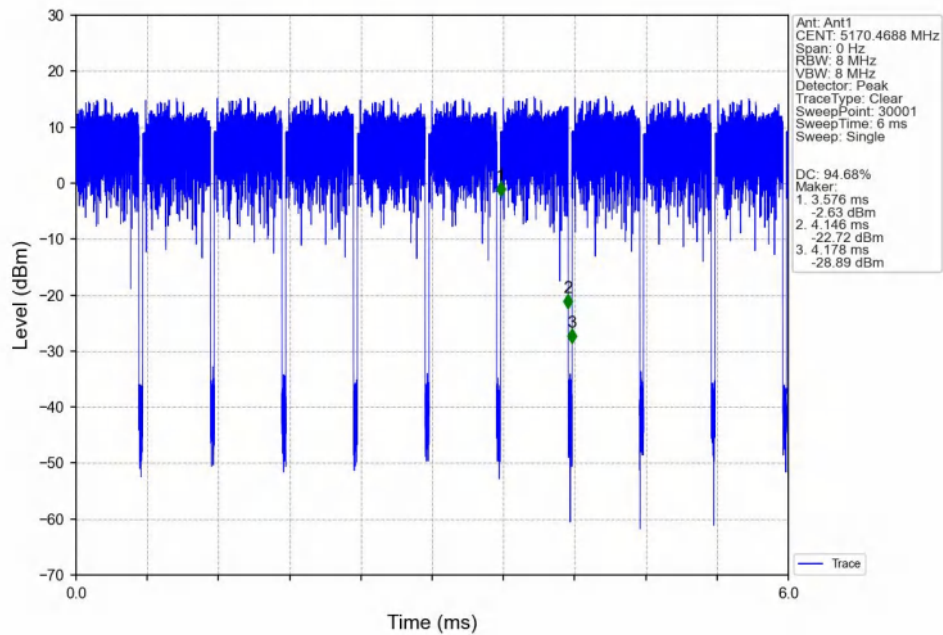
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



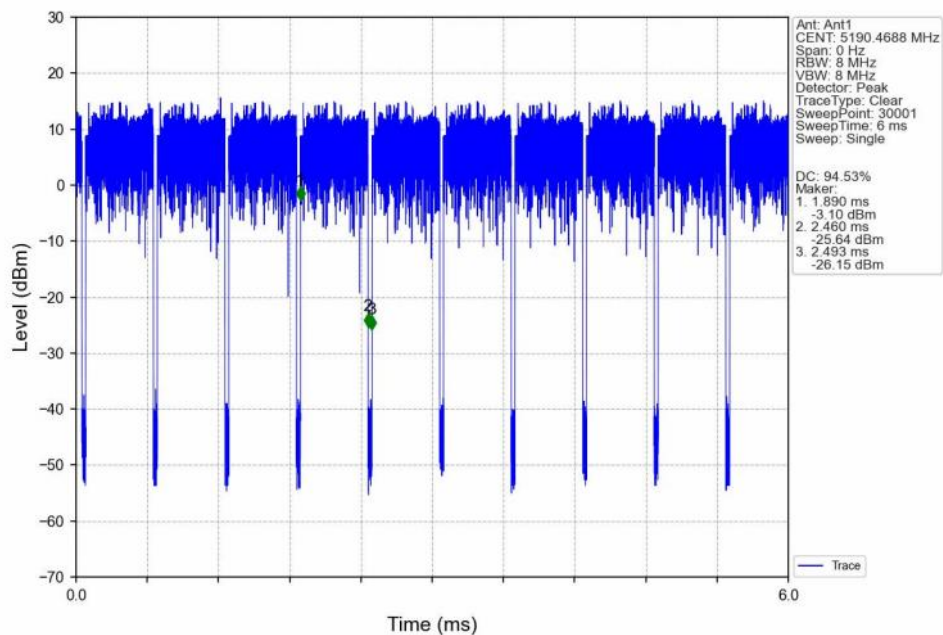
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



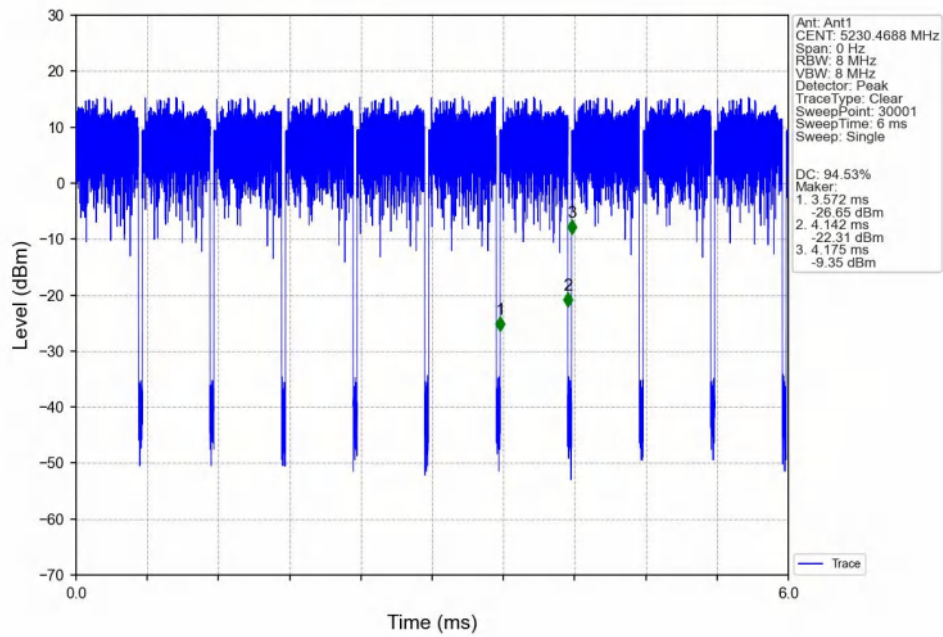
802.11ax(HEW20)_LCH_5180MHz_SU_ / Ant1_NTNV



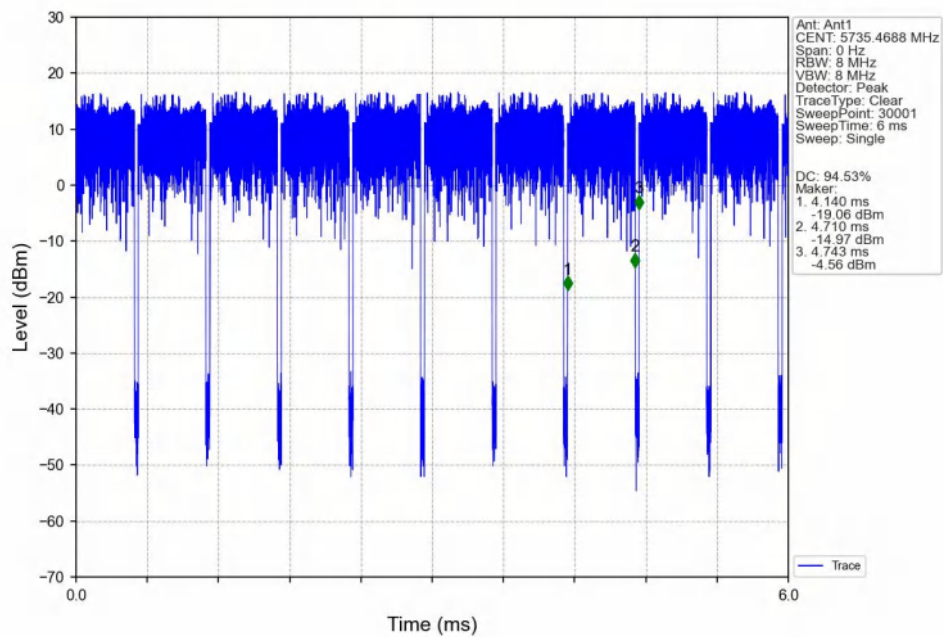
802.11ax(HEW20)_MCH_5200MHz_SU_ / Ant1_NTNV



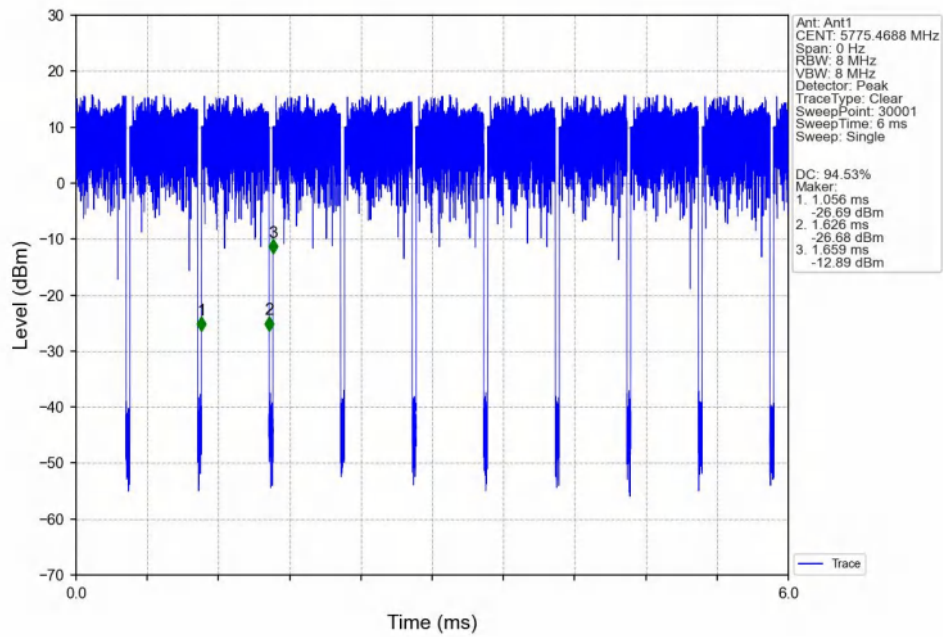
802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



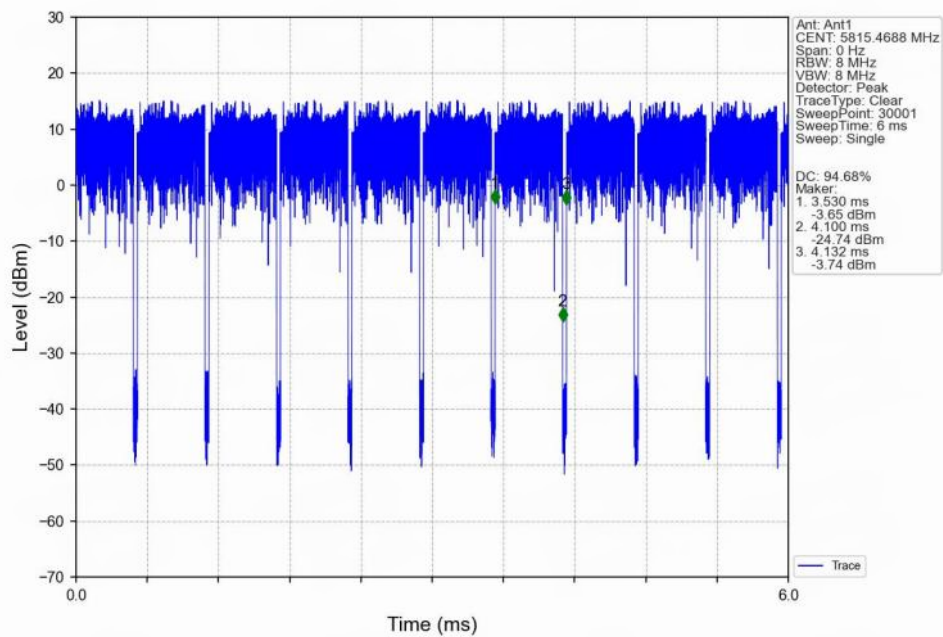
802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant1_NTNV



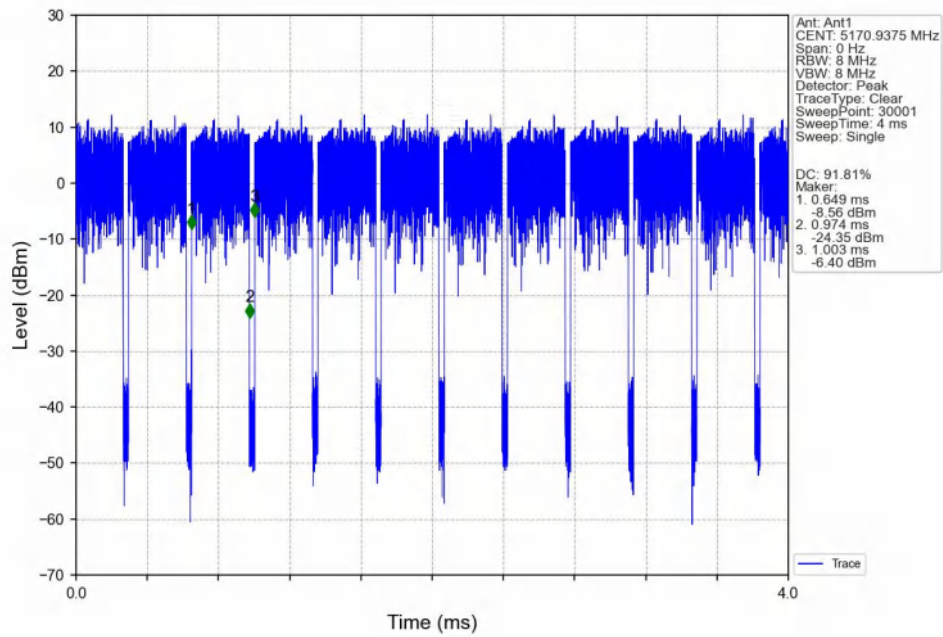
802.11ax(HEW20)_MCH_5785MHz_SU_/_Ant1_NTNV



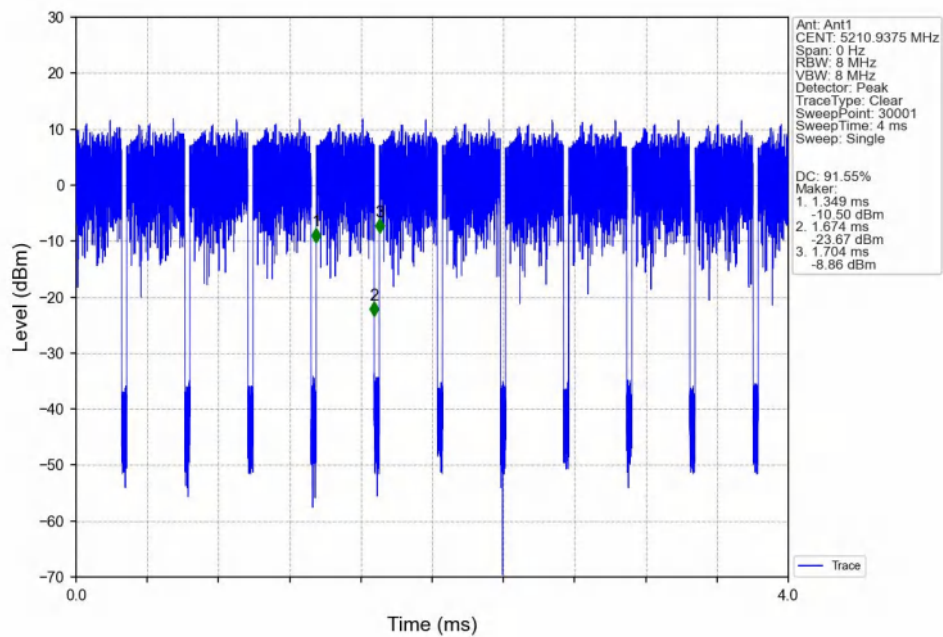
802.11ax(HEW20)_HCH_5825MHz_SU_/_Ant1_NTNV



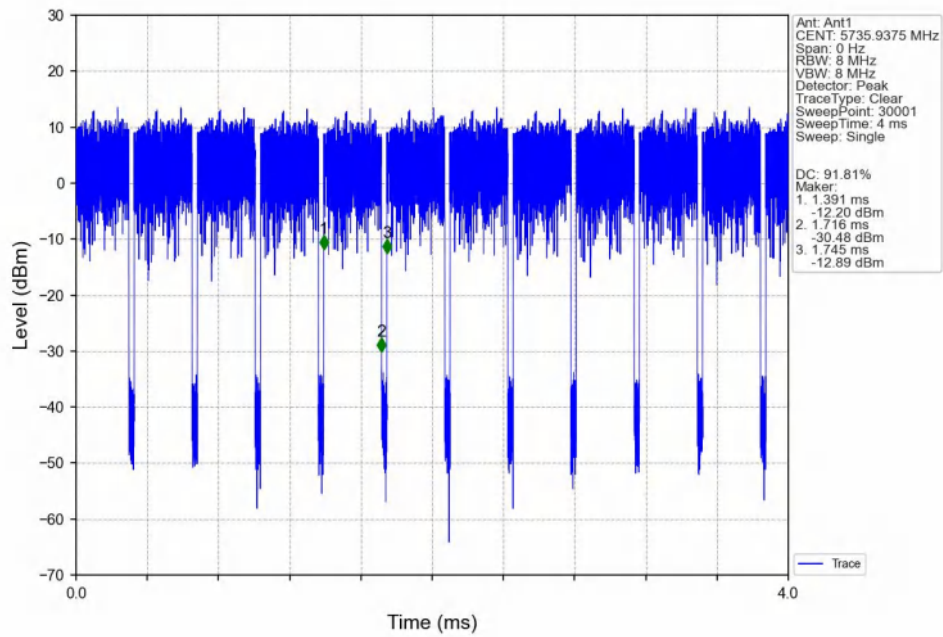
802.11ax(HEW40)_LCH_5190MHz_SU_ / Ant1_NTNV



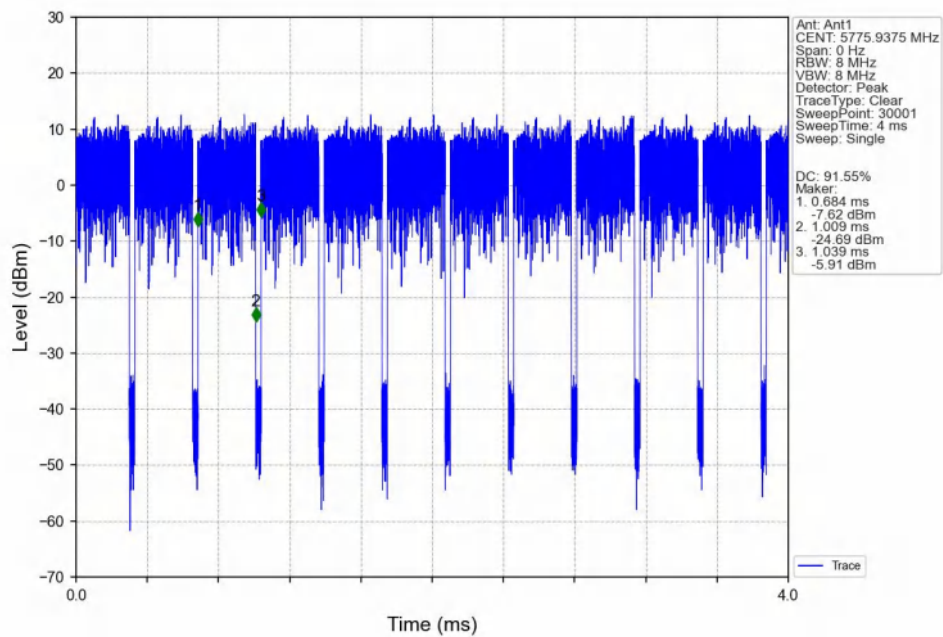
802.11ax(HEW40)_HCH_5230MHz_SU_ / Ant1_NTNV



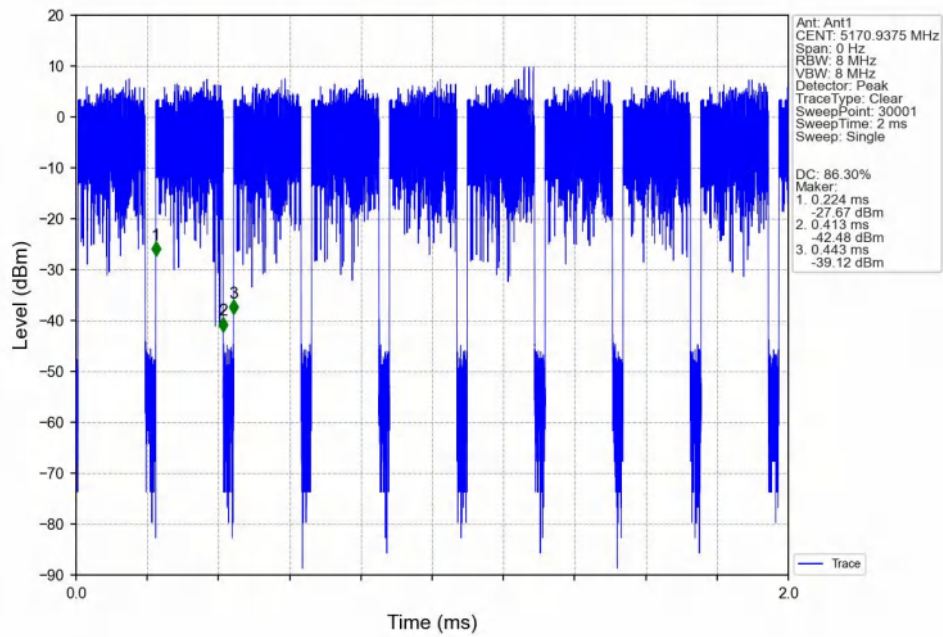
802.11ax(HEW40)_LCH_5755MHz_SU_ / Ant1_NTNV



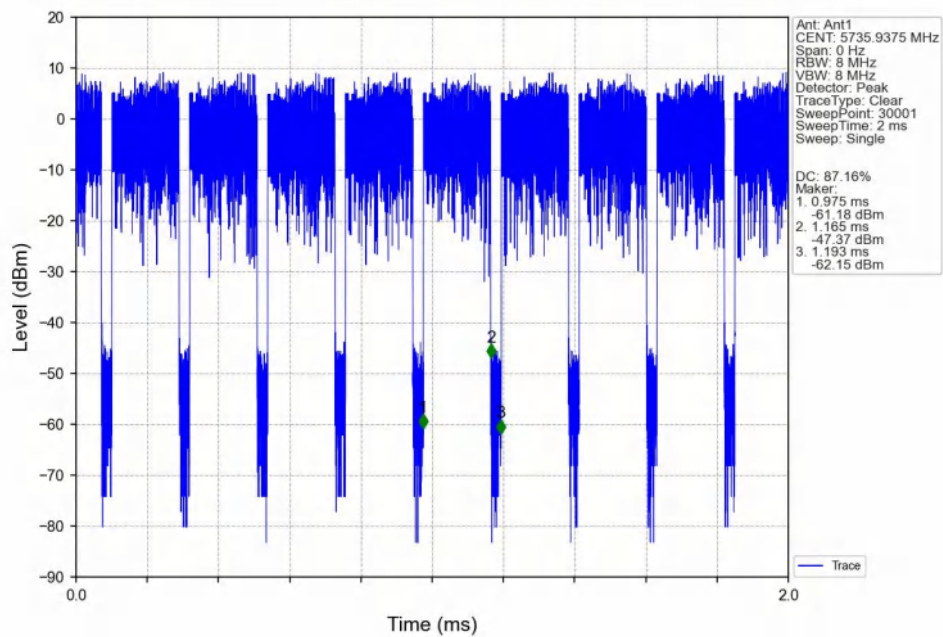
802.11ax(HEW40)_HCH_5795MHz_SU_ / Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_SU_/_Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	17.737	/	Pass
		5200	/	/	1	17.736	/	Pass
		5240	/	/	1	17.698	/	Pass
		5745	/	/	1	17.743	/	Pass
		5785	/	/	1	17.802	/	Pass
		5825	/	/	1	17.701	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	18.712	/	Pass
		5200	/	/	1	18.727	/	Pass
		5240	/	/	1	18.701	/	Pass
		5745	/	/	1	18.741	/	Pass
		5785	/	/	1	18.732	/	Pass
		5825	/	/	1	18.722	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	36.696	/	Pass
		5230	/	/	1	36.704	/	Pass
		5755	/	/	1	36.800	/	Pass
		5795	/	/	1	36.938	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	18.713	/	Pass
		5200	/	/	1	18.713	/	Pass
		5240	/	/	1	18.713	/	Pass
		5745	/	/	1	18.790	/	Pass
		5785	/	/	1	18.727	/	Pass
		5825	/	/	1	18.732	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	36.937	/	Pass
		5230	/	/	1	36.851	/	Pass
		5755	/	/	1	37.016	/	Pass
		5795	/	/	1	37.037	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	76.670	/	Pass
		5775	/	/	1	76.657	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	19.566	/	Pass
		5200	SU	/	1	19.598	/	Pass
		5240	SU	/	1	19.539	/	Pass
		5745	SU	/	1	19.464	/	Pass
		5785	SU	/	1	19.401	/	Pass
		5825	SU	/	1	19.501	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	37.802	/	Pass
		5230	SU	/	1	37.843	/	Pass
		5755	SU	/	1	37.853	/	Pass
		5795	SU	/	1	37.933	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	77.792	/	Pass
		5775	SU	/	1	78.035	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	21.091	/	Pass
		5200	/	/	1	21.091	/	Pass
		5240	/	/	1	21.039	/	Pass
802.11n	SISO	5180	/	/	1	21.364	/	Pass

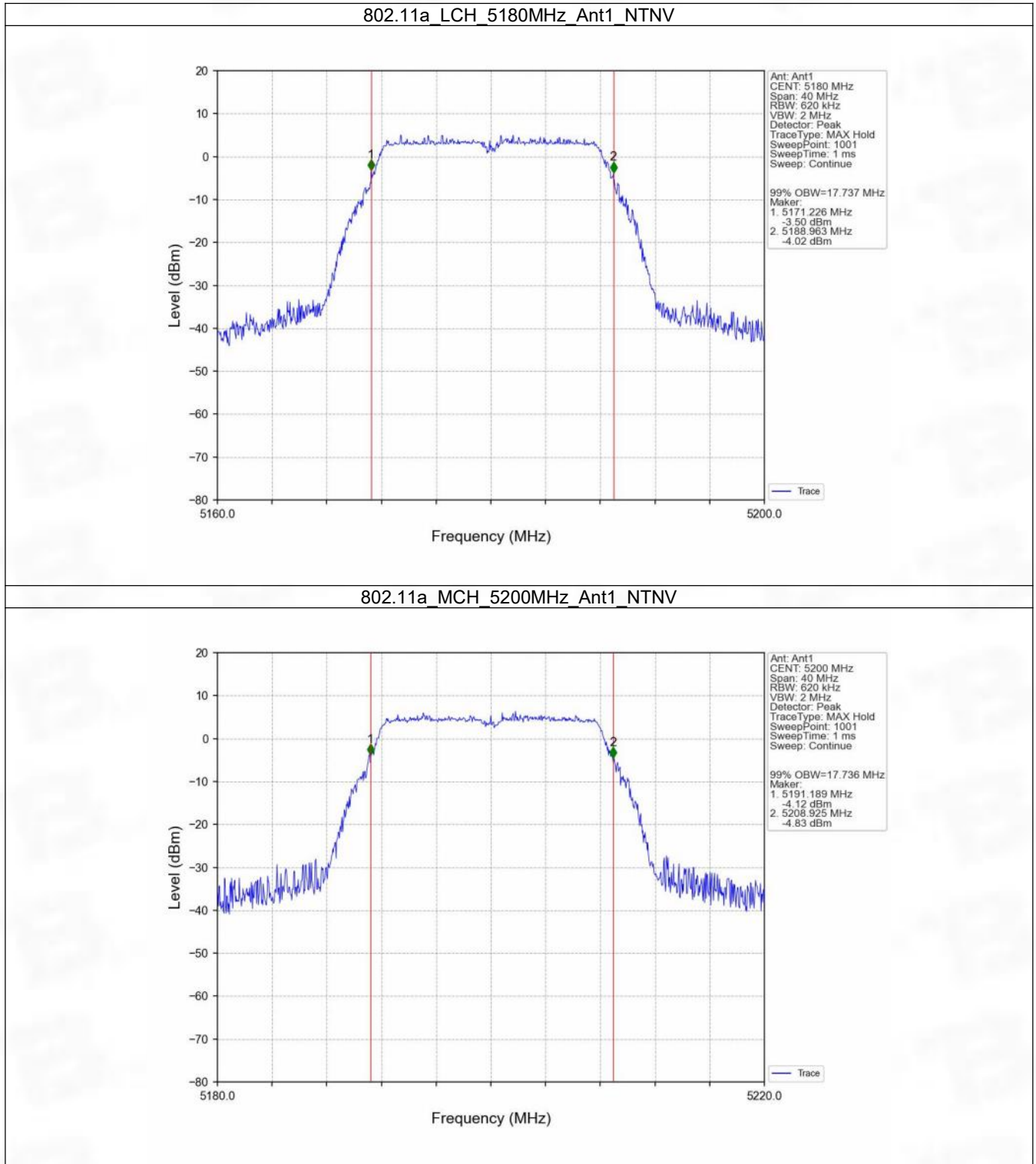
(HT20)		5200	/	/	1	21.443	/	Pass
		5240	/	/	1	21.407	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	39.804	/	Pass
		5230	/	/	1	39.895	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	21.427	/	Pass
		5200	/	/	1	21.489	/	Pass
		5240	/	/	1	21.430	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	40.158	/	Pass
		5230	/	/	1	40.415	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	81.595	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	21.586	/	Pass
		5200	SU	/	1	21.949	/	Pass
		5240	SU	/	1	21.850	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	39.708	/	Pass
		5230	SU	/	1	39.754	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	80.840	/	Pass

2.1.3 6dB BW

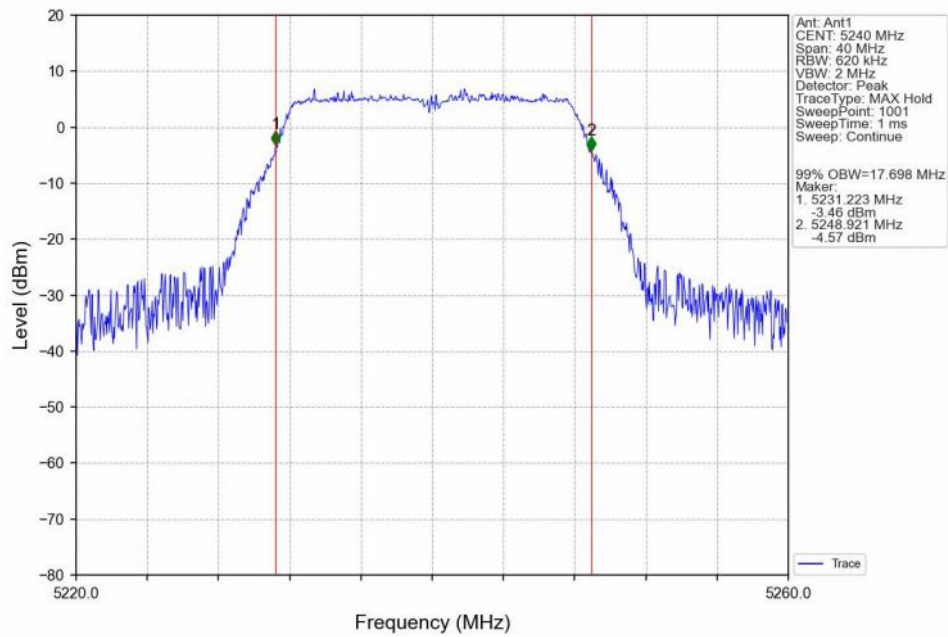
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.369	>=0.5	Pass
		5785	/	/	1	16.397	>=0.5	Pass
		5825	/	/	1	16.362	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	17.665	>=0.5	Pass
		5785	/	/	1	17.659	>=0.5	Pass
		5825	/	/	1	17.637	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	35.926	>=0.5	Pass
		5795	/	/	1	36.362	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.625	>=0.5	Pass
		5785	/	/	1	17.624	>=0.5	Pass
		5825	/	/	1	17.618	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.346	>=0.5	Pass
		5795	/	/	1	36.339	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	75.744	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	19.018	>=0.5	Pass
		5785	SU	/	1	18.852	>=0.5	Pass
		5825	SU	/	1	18.908	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	37.105	>=0.5	Pass
		5795	SU	/	1	37.308	>=0.5	Pass
802.11ax (HEW80)	SISO	5775	SU	/	1	76.346	>=0.5	Pass

2.2 Test Graph

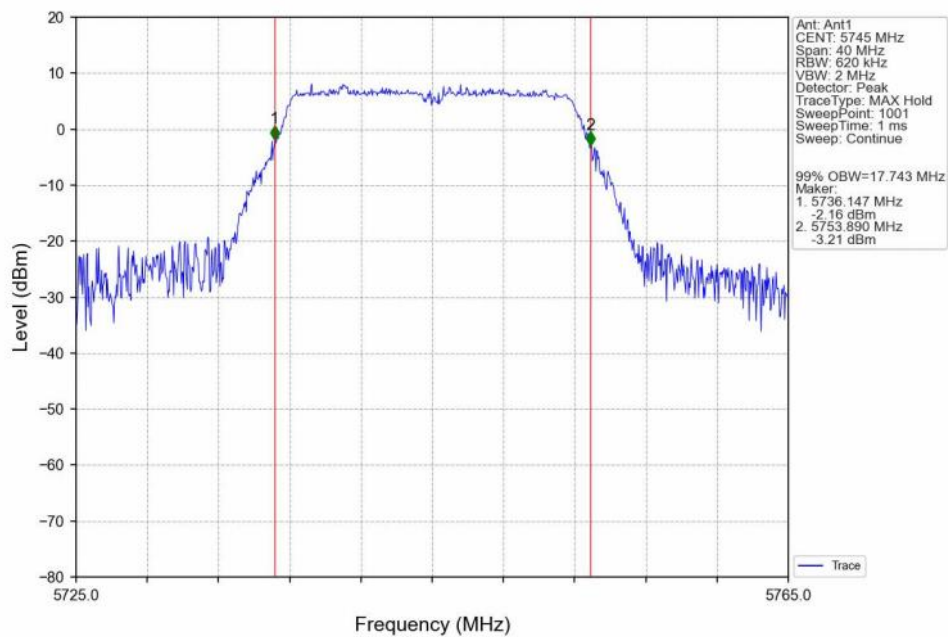
2.2.1 OBW



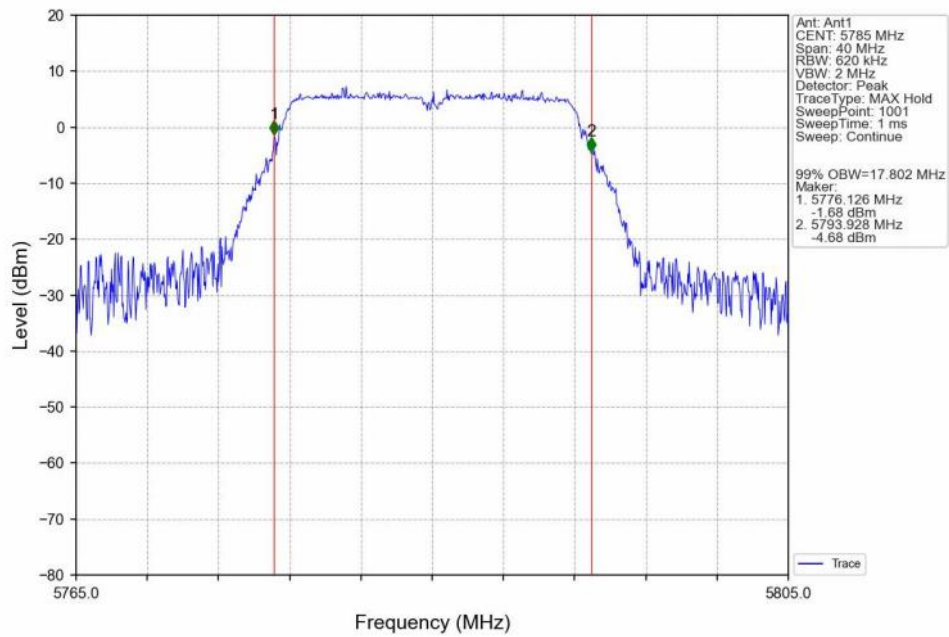
802.11a_HCH_5240MHz_Ant1_NTNV



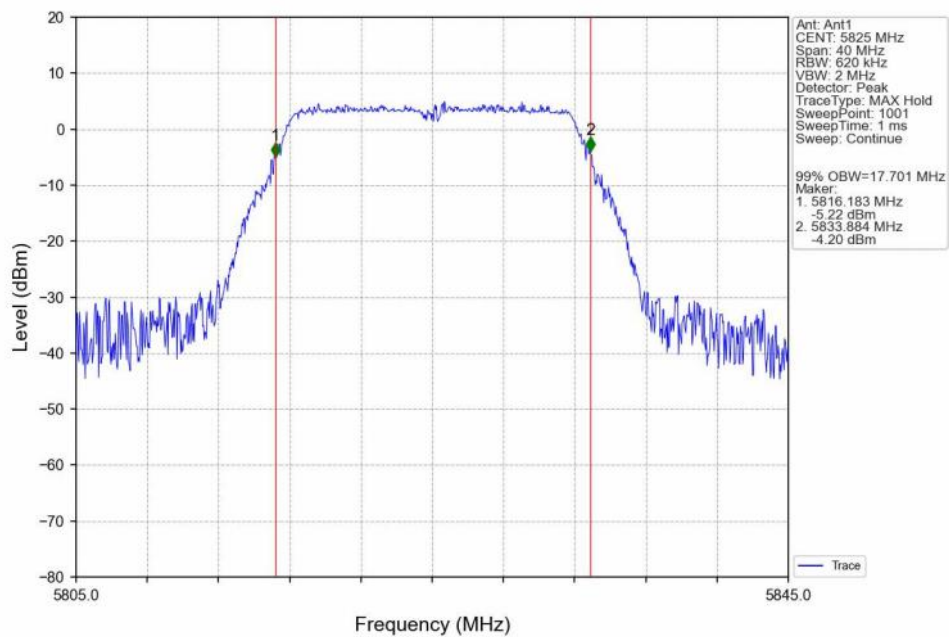
802.11a_LCH_5745MHz_Ant1_NTNV



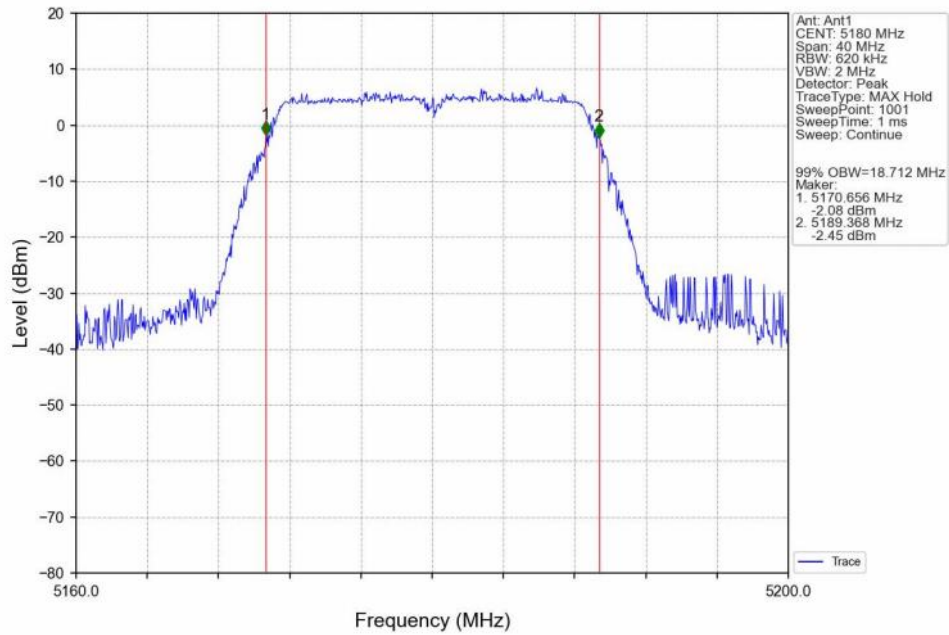
802.11a_MCH_5785MHz_Ant1_NTNV



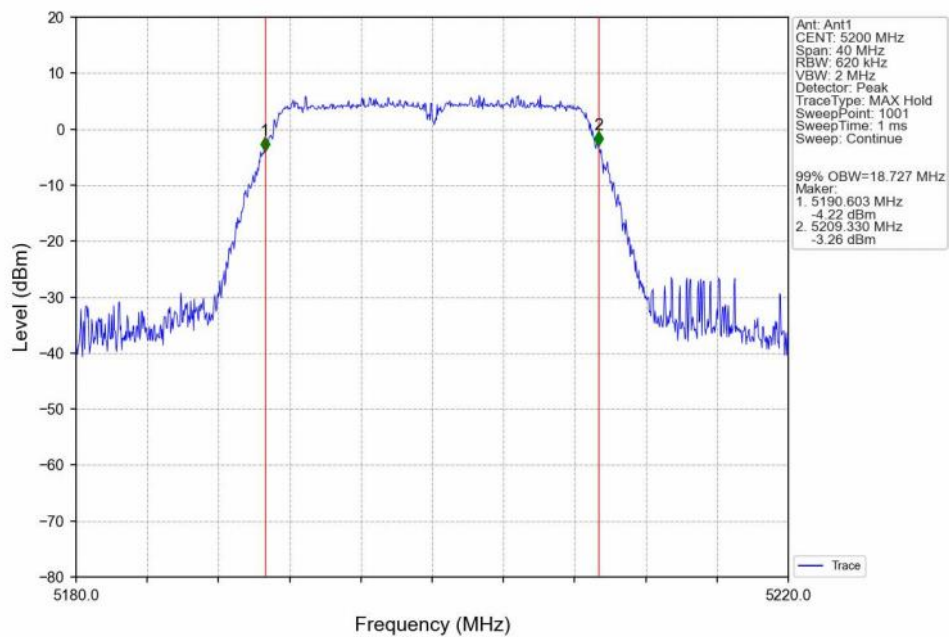
802.11a_HCH_5825MHz_Ant1_NTNV



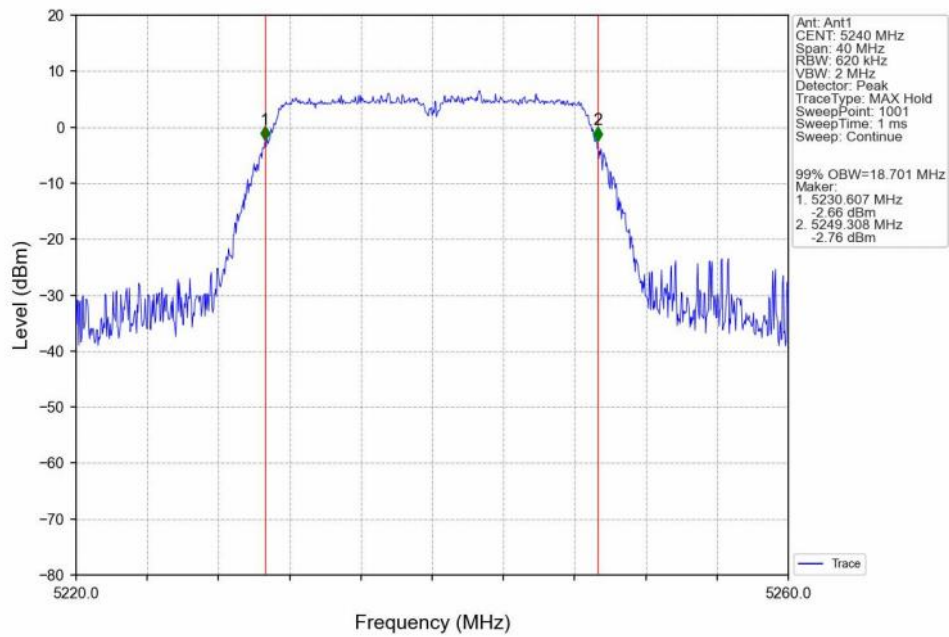
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



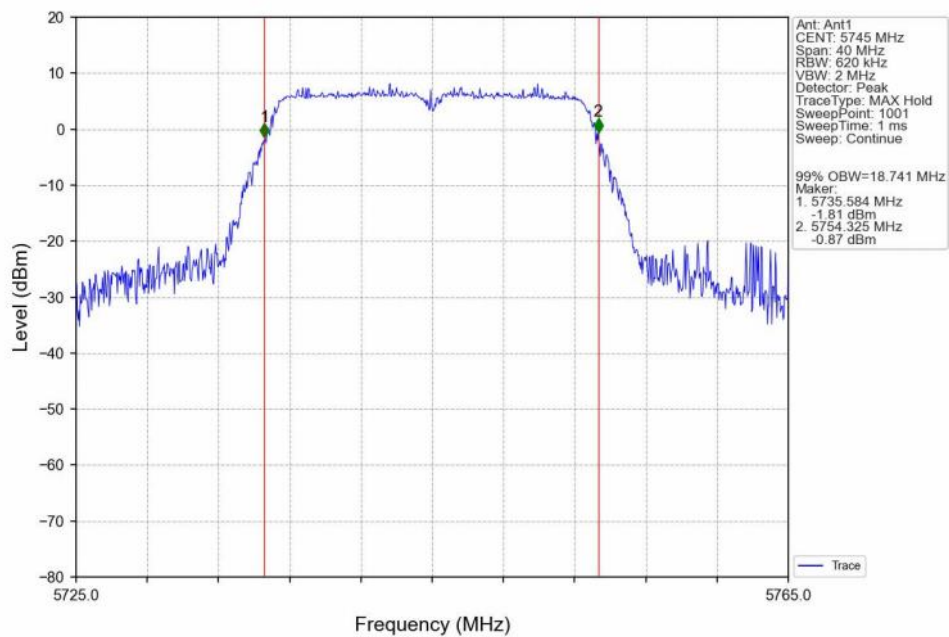
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



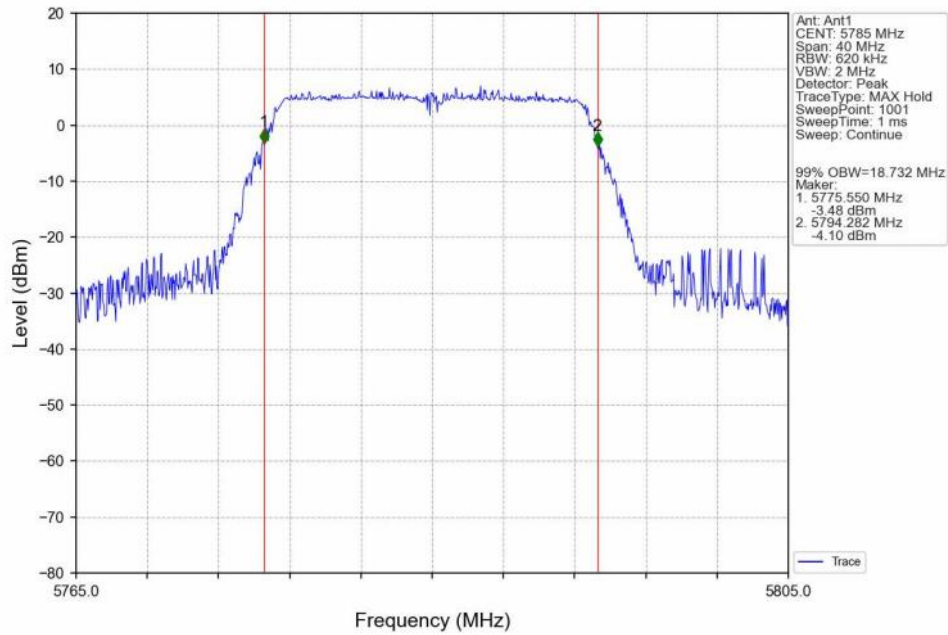
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



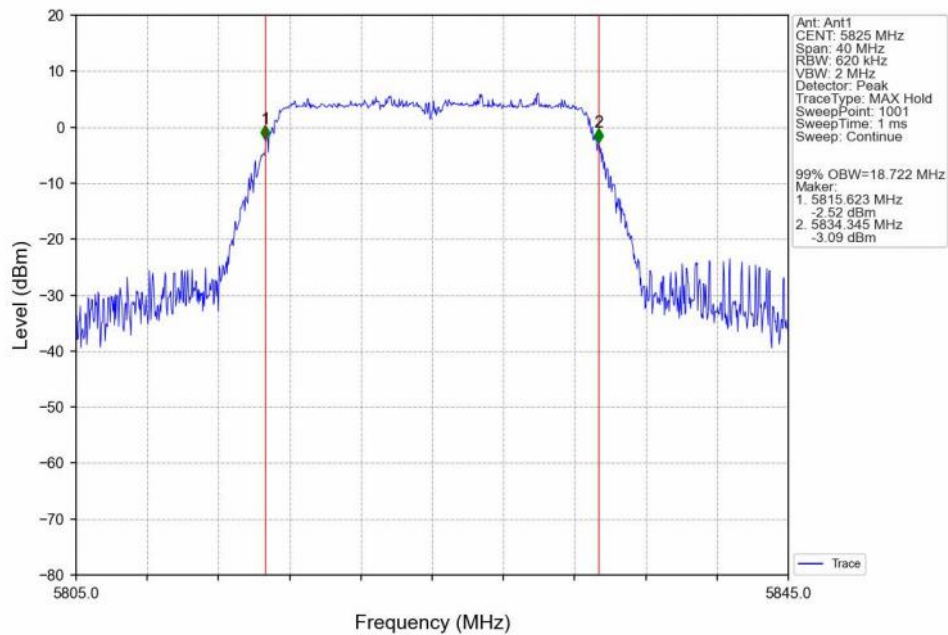
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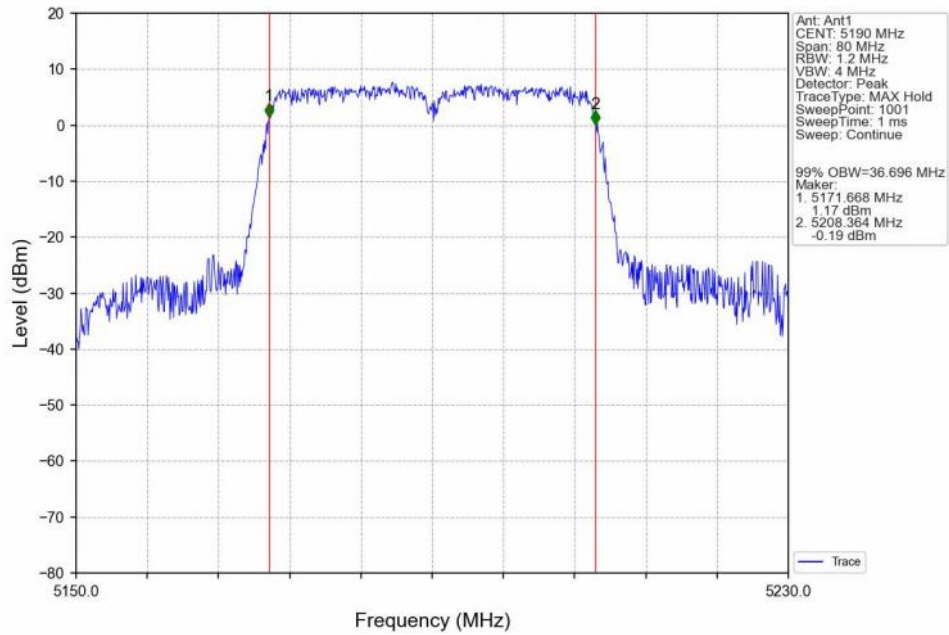
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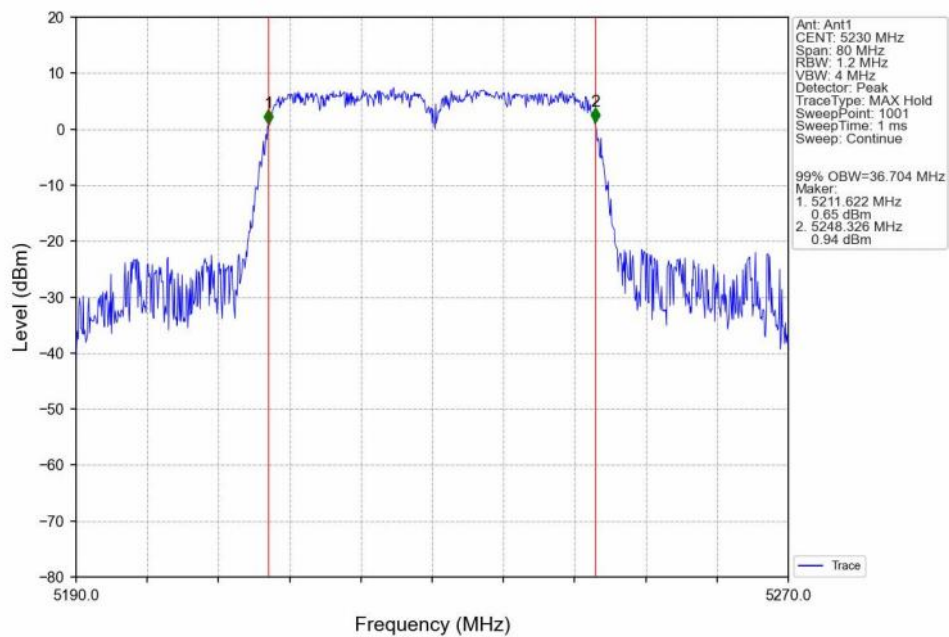
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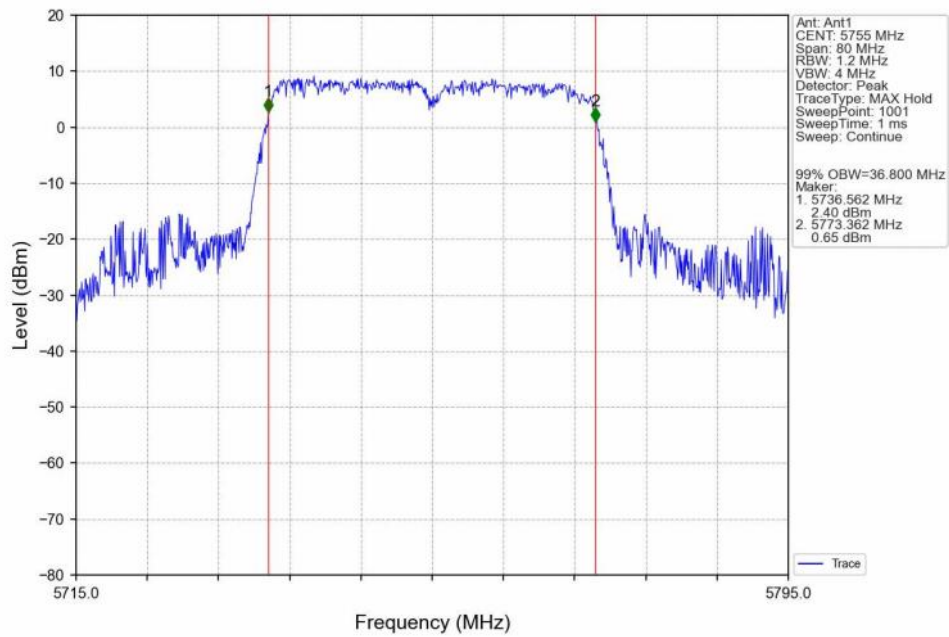
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



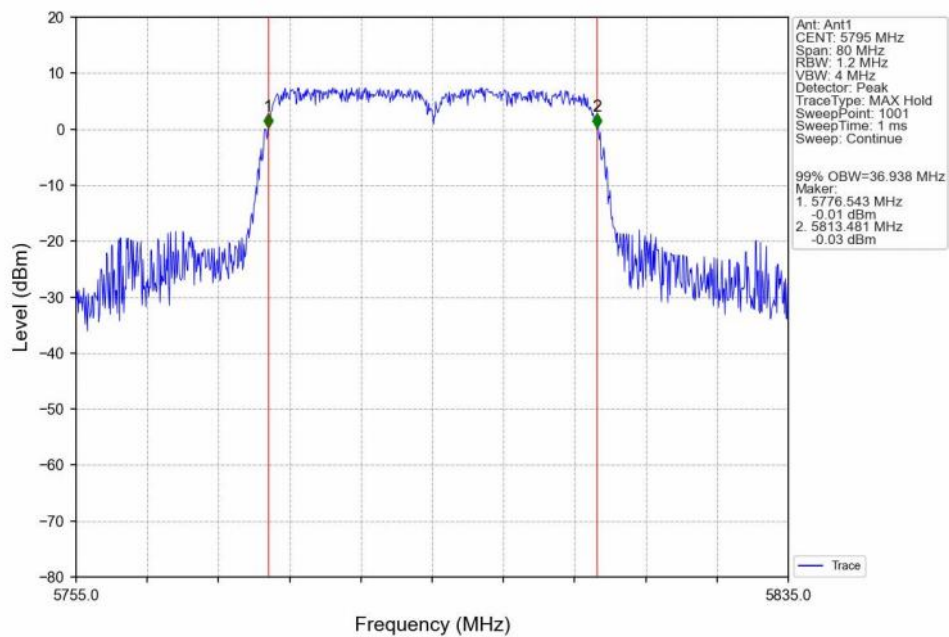
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



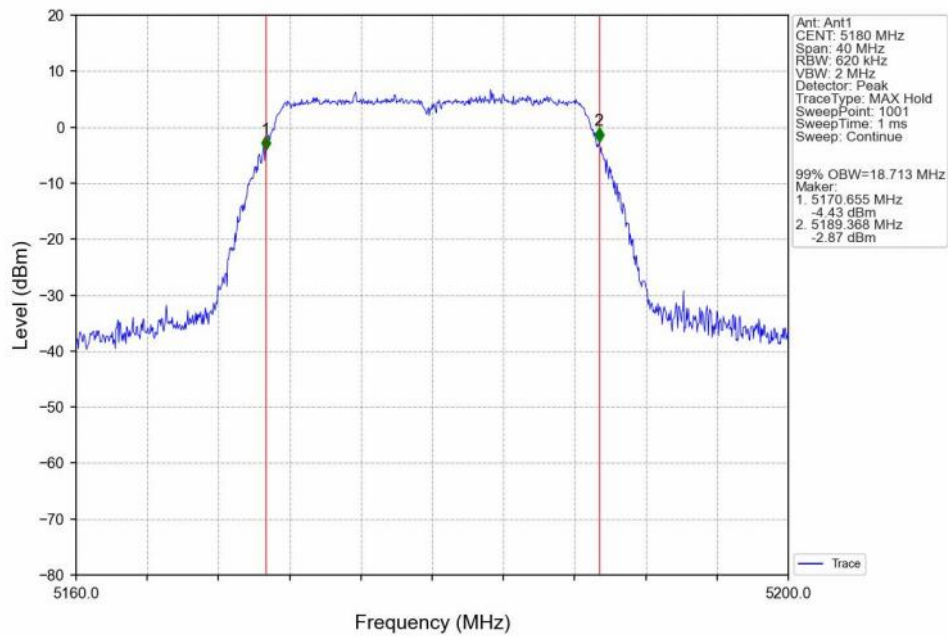
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



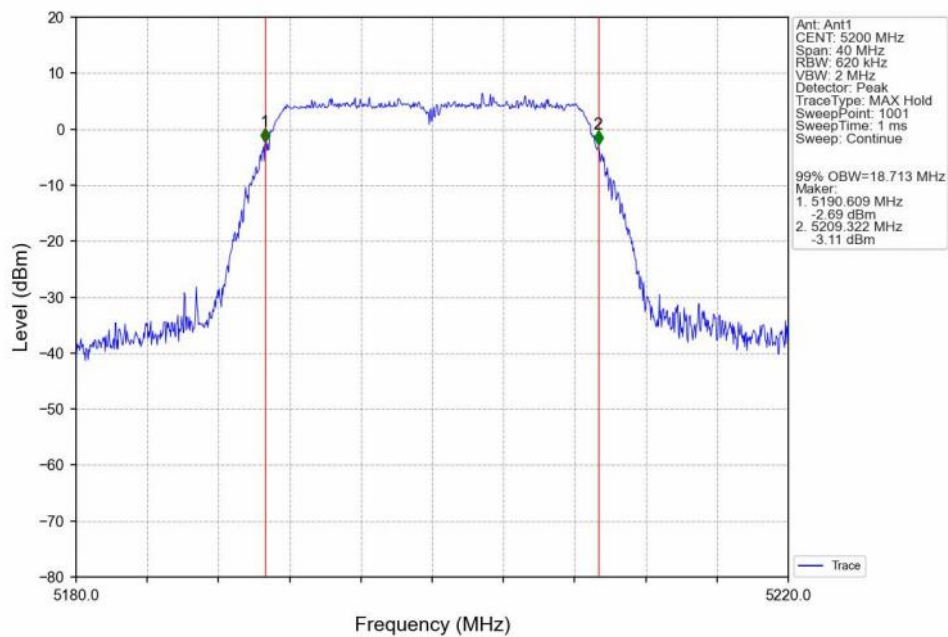
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



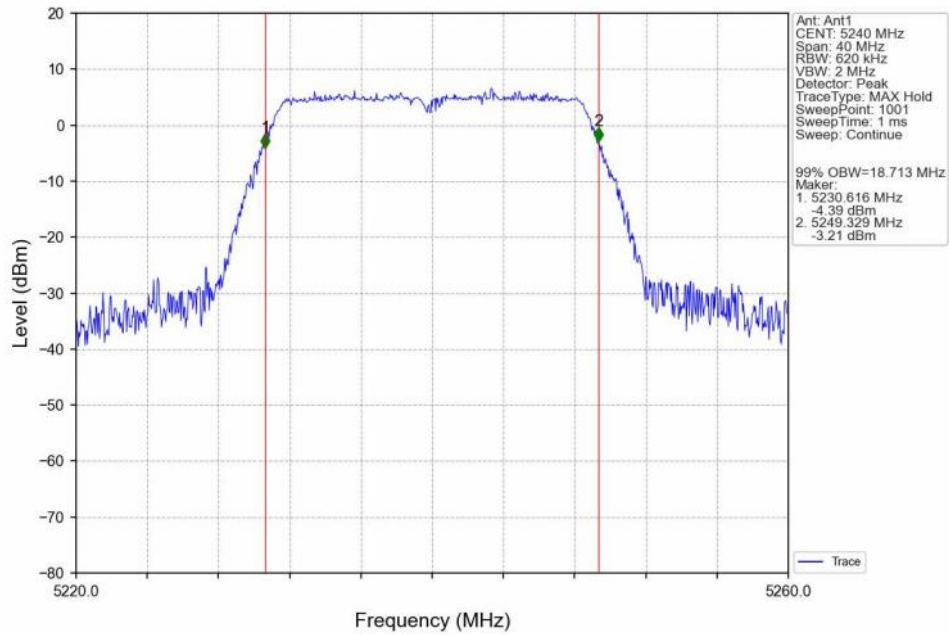
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



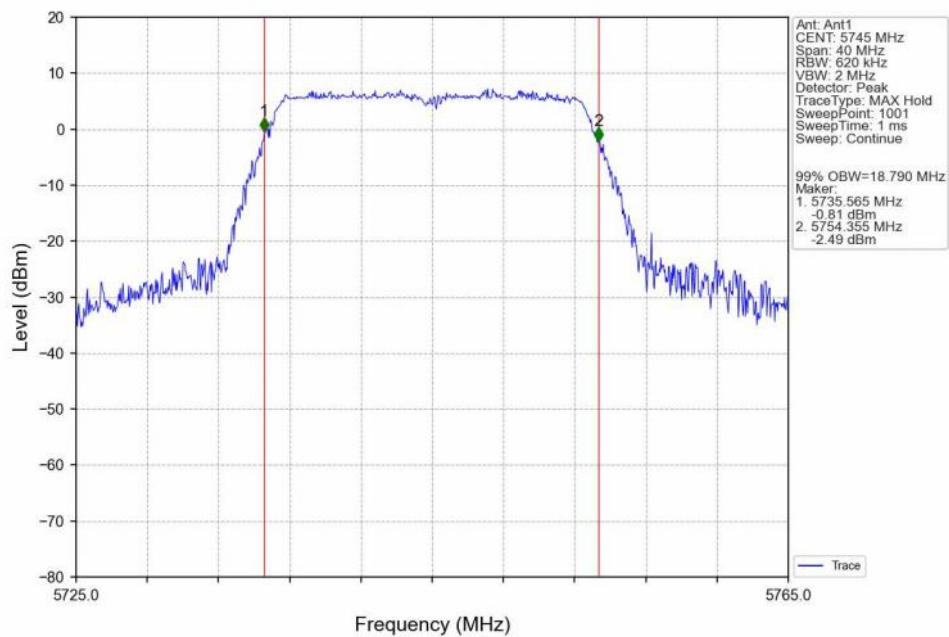
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



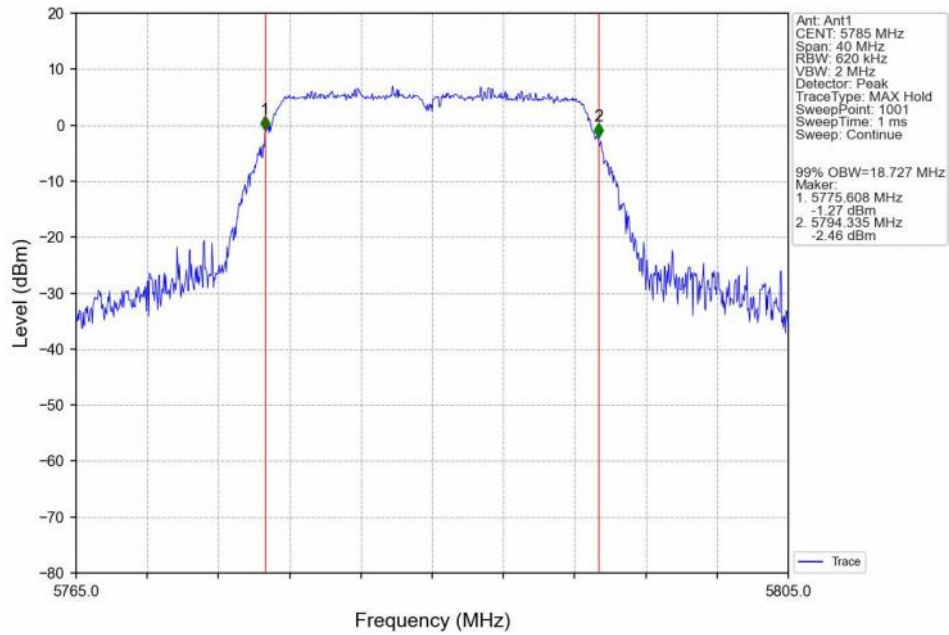
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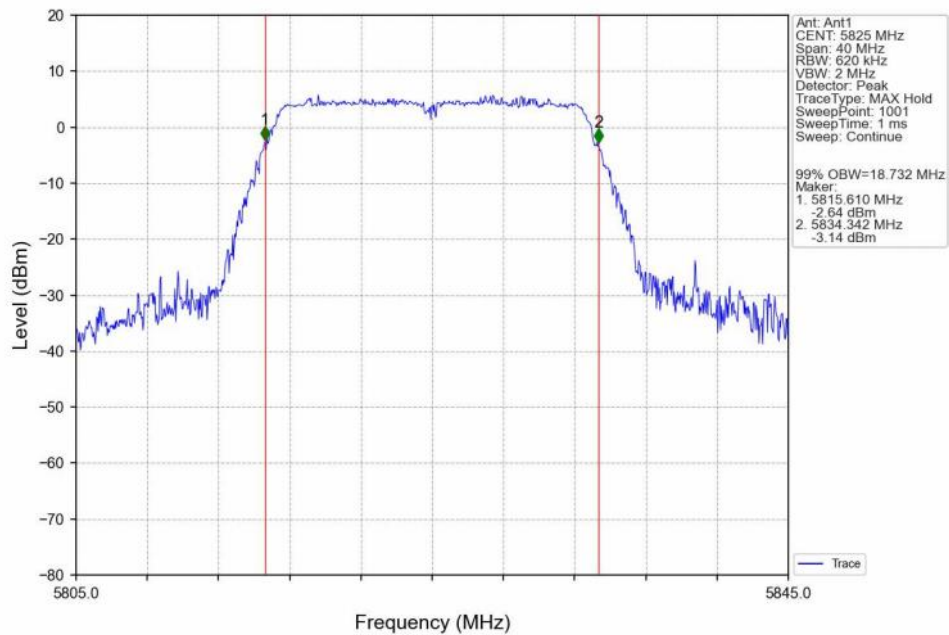
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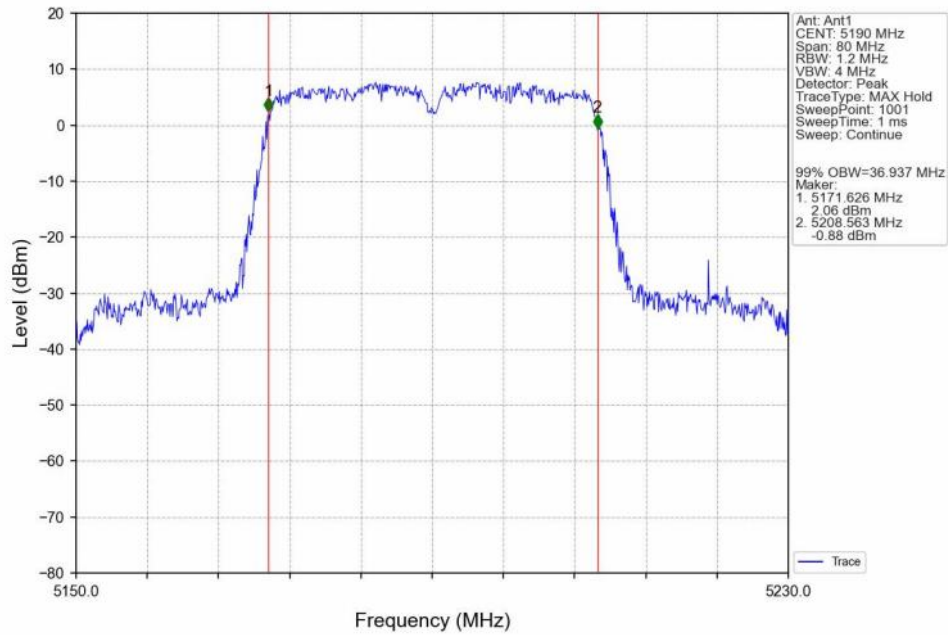
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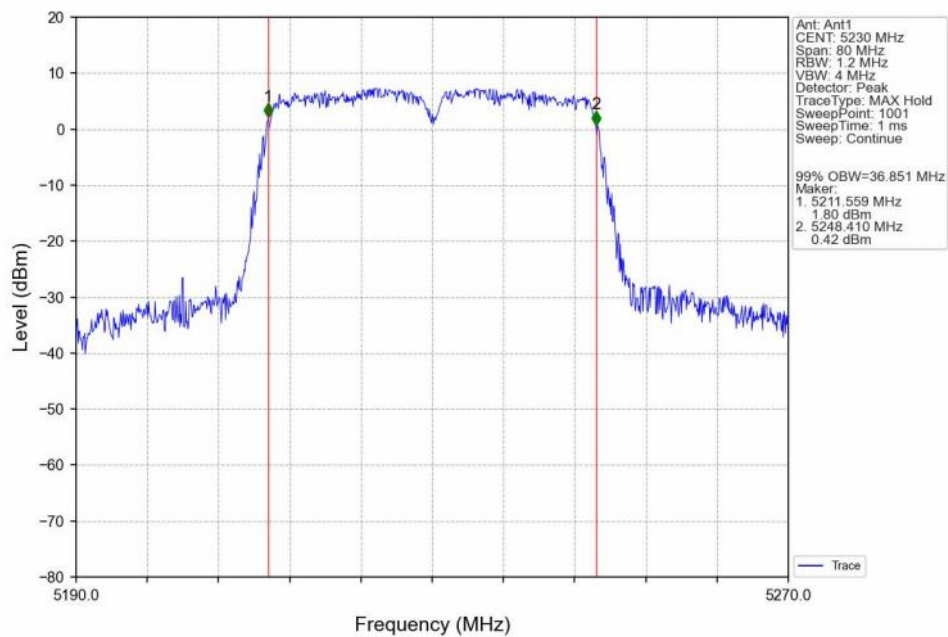
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



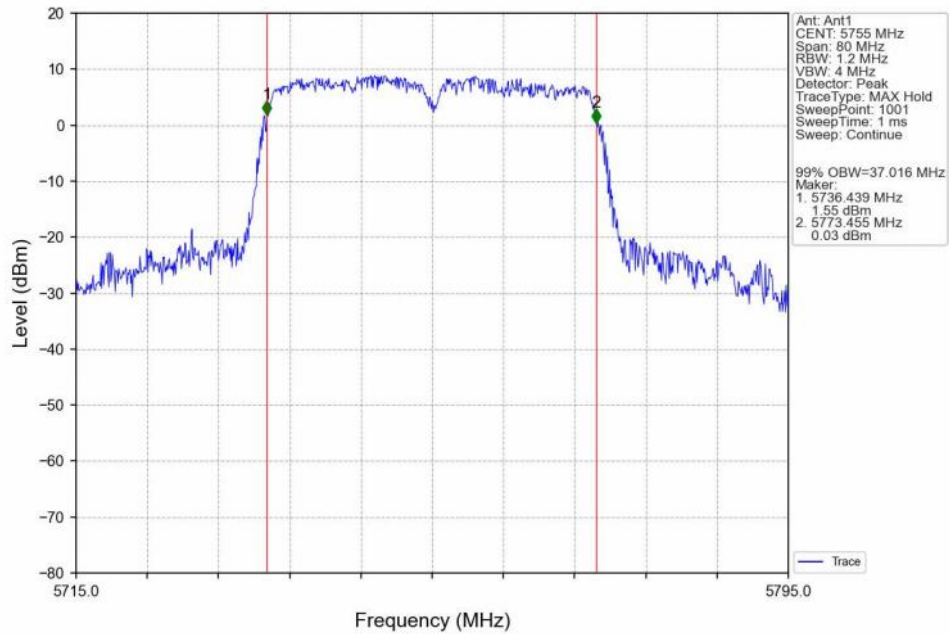
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



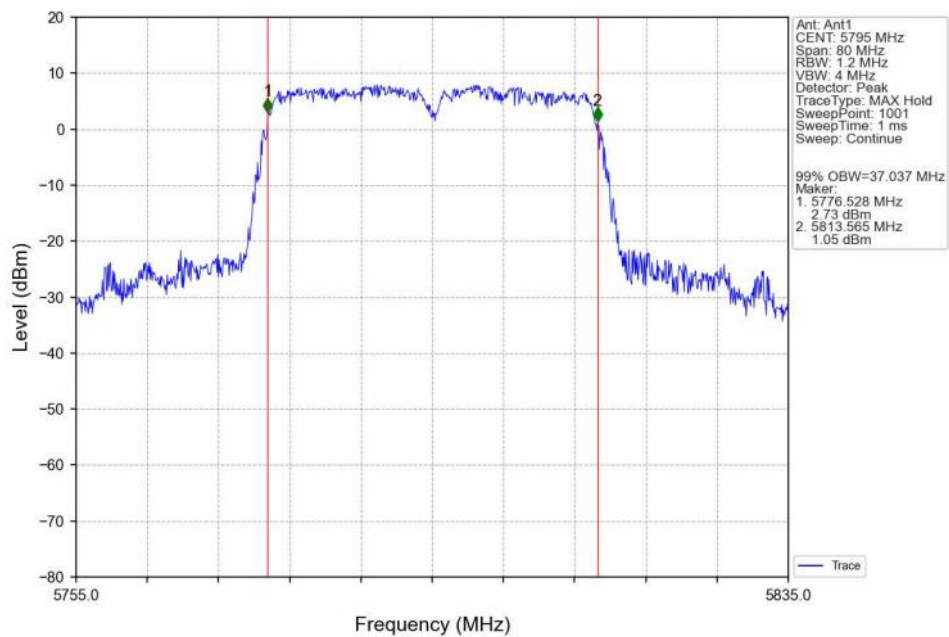
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



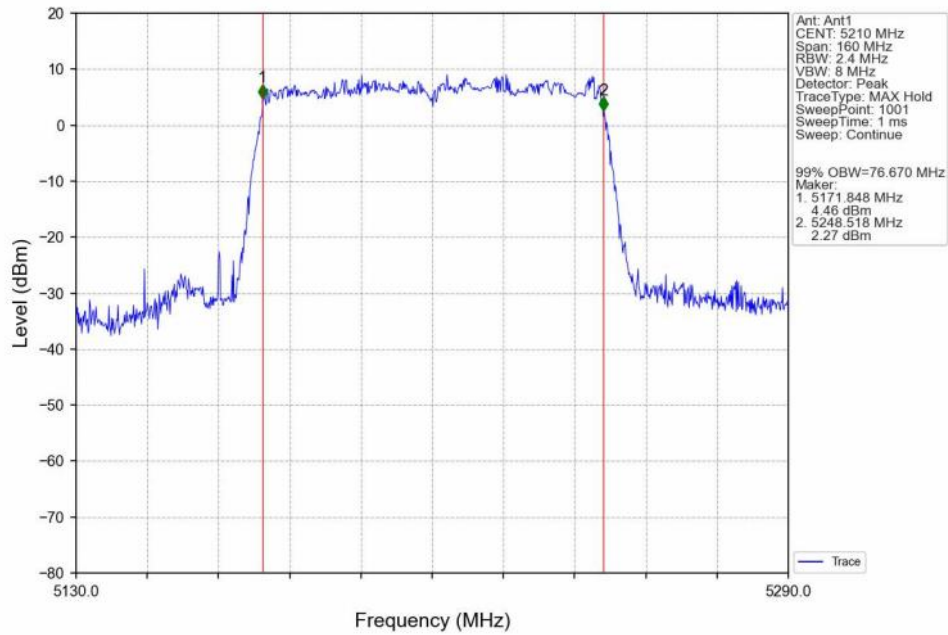
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



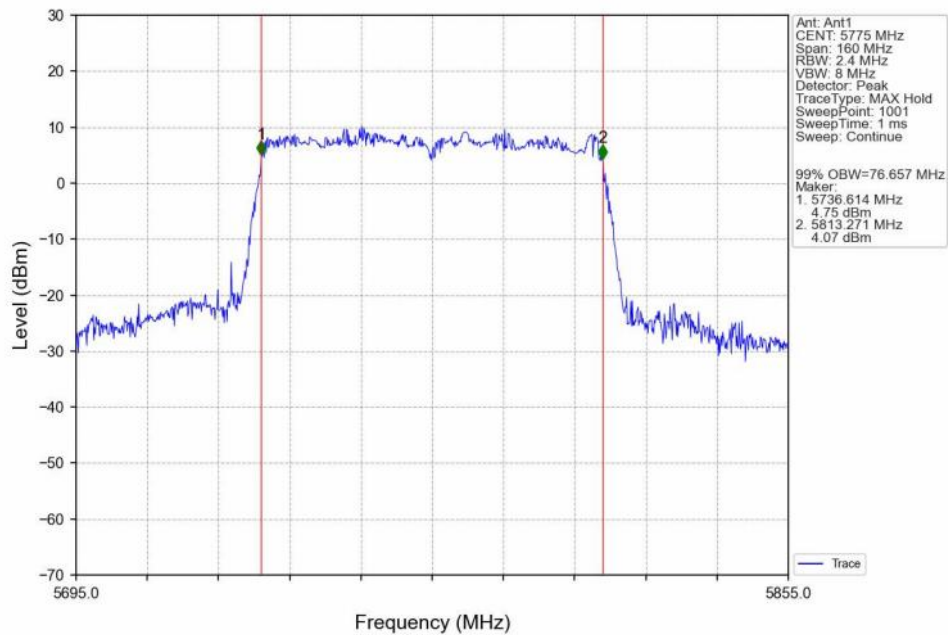
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



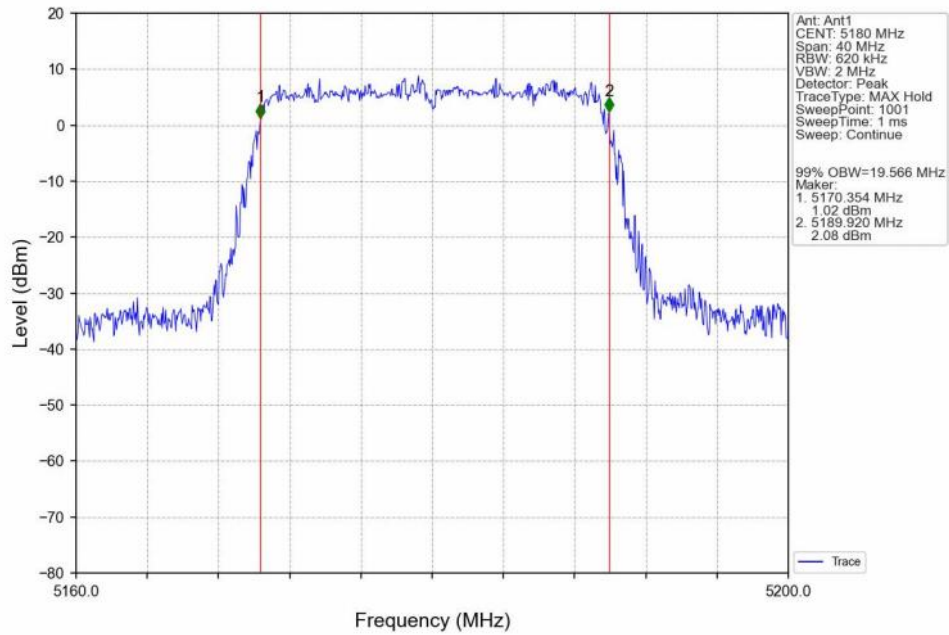
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



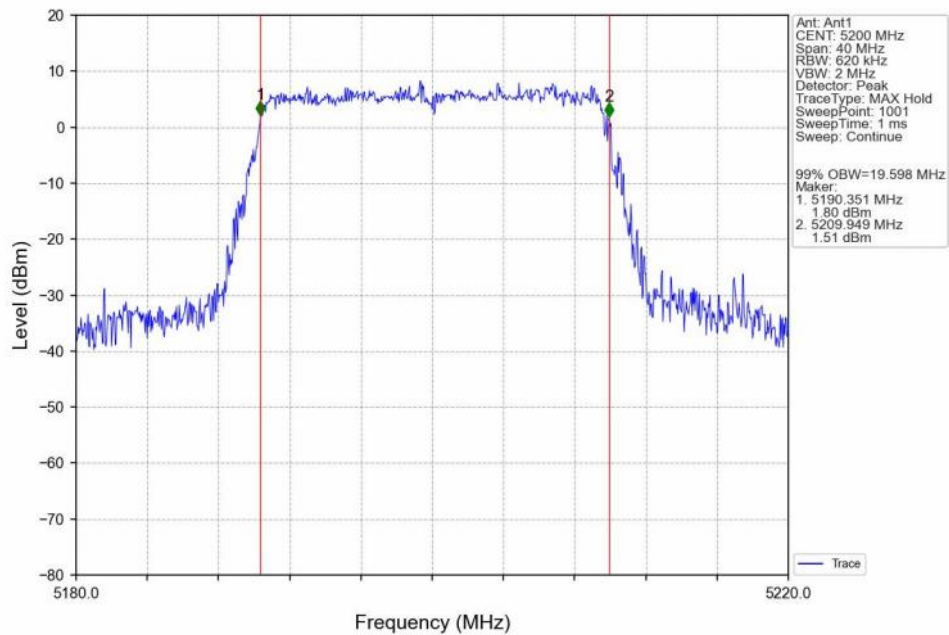
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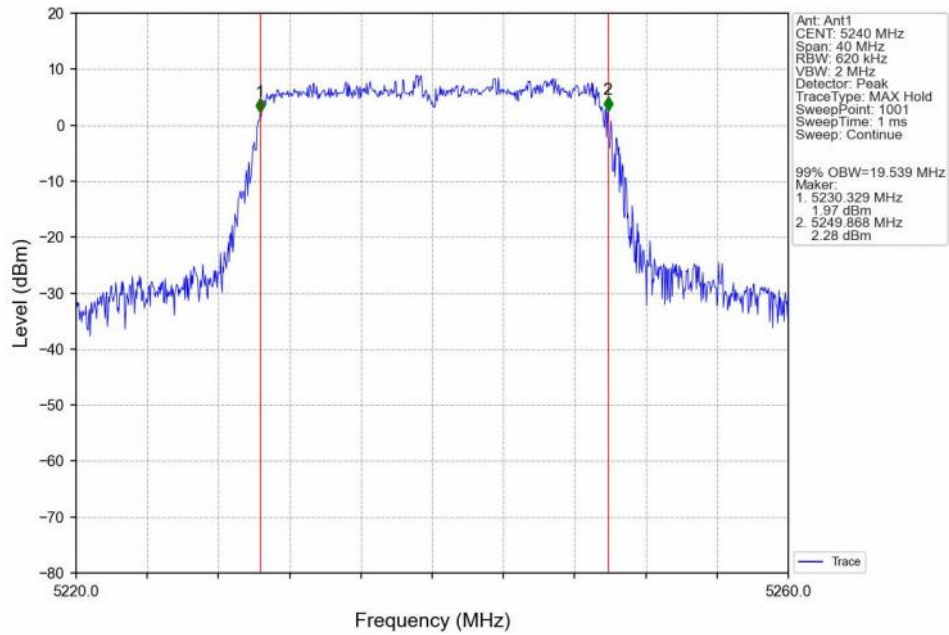
802.11ax(HEW20)_LCH_5180MHz_SU_ / Ant1_NTNV



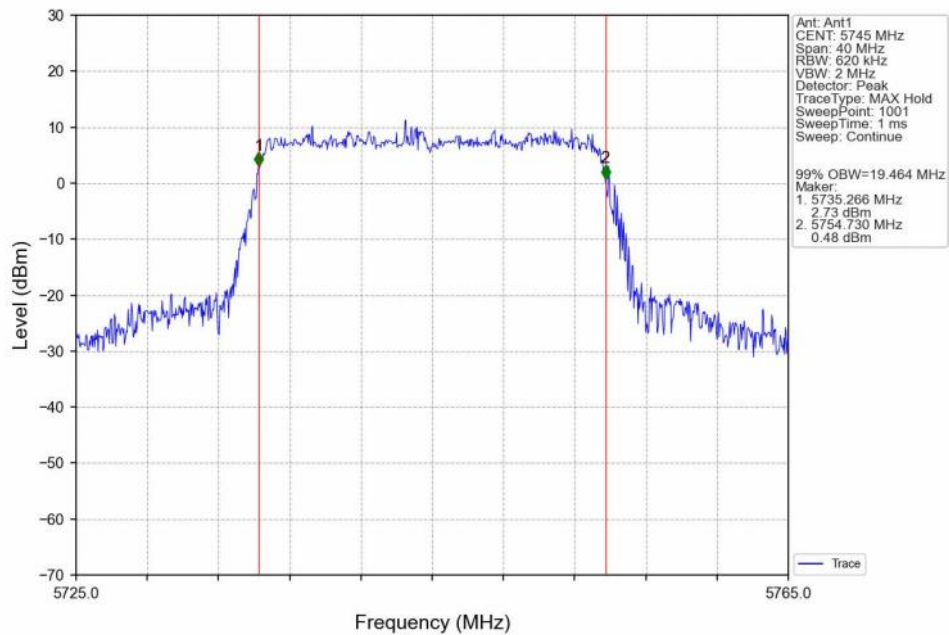
802.11ax(HEW20)_MCH_5200MHz_SU_ / Ant1_NTNV



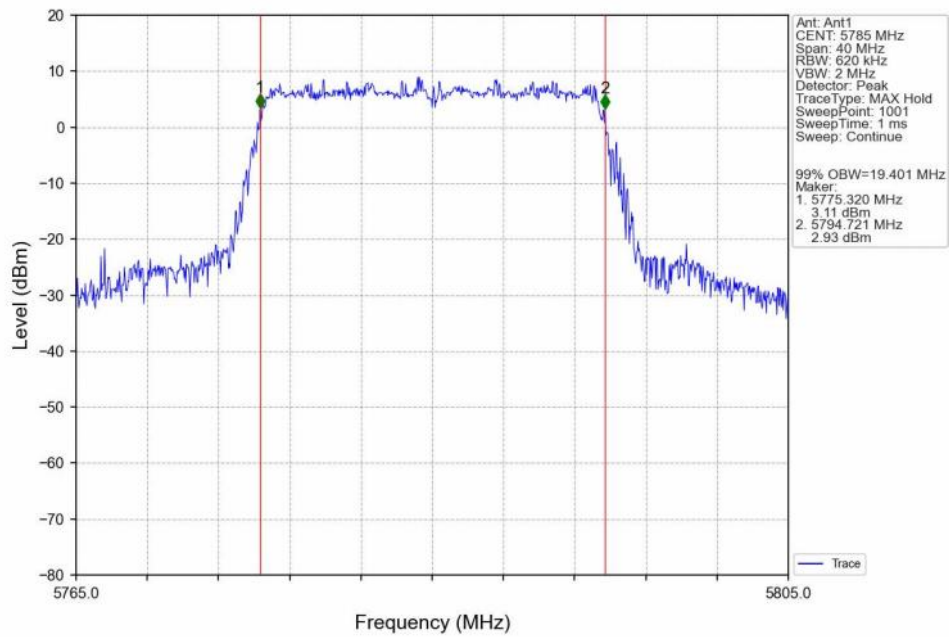
802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



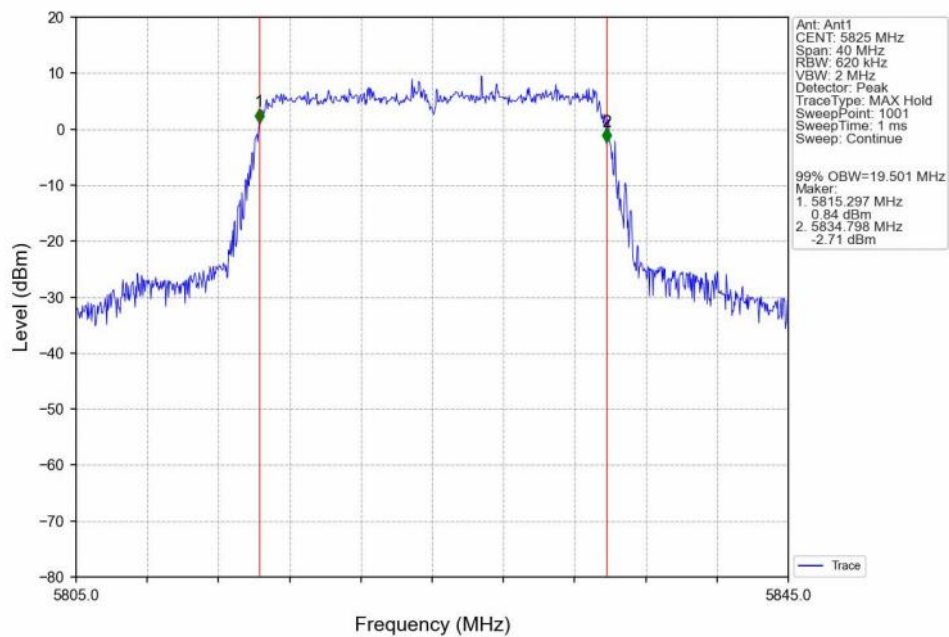
802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant1_NTNV



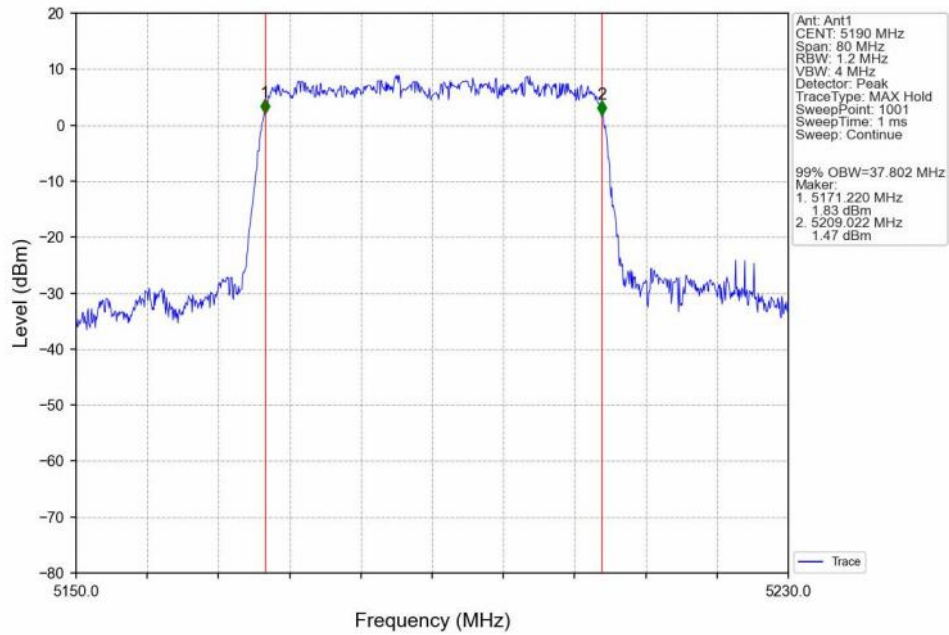
802.11ax(HEW20)_MCH_5785MHz_SU_/_Ant1_NTNV



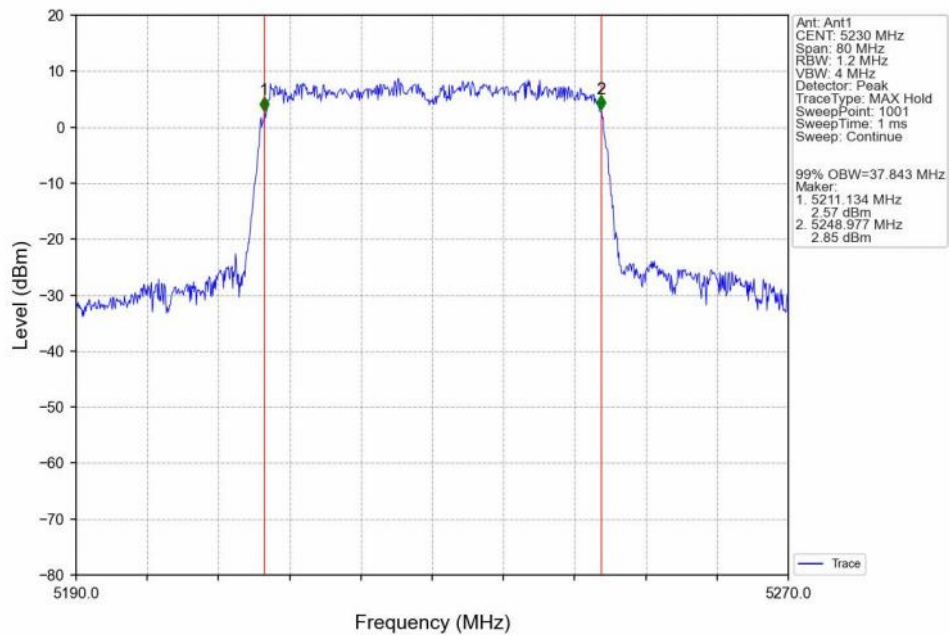
802.11ax(HEW20)_HCH_5825MHz_SU_/_Ant1_NTNV



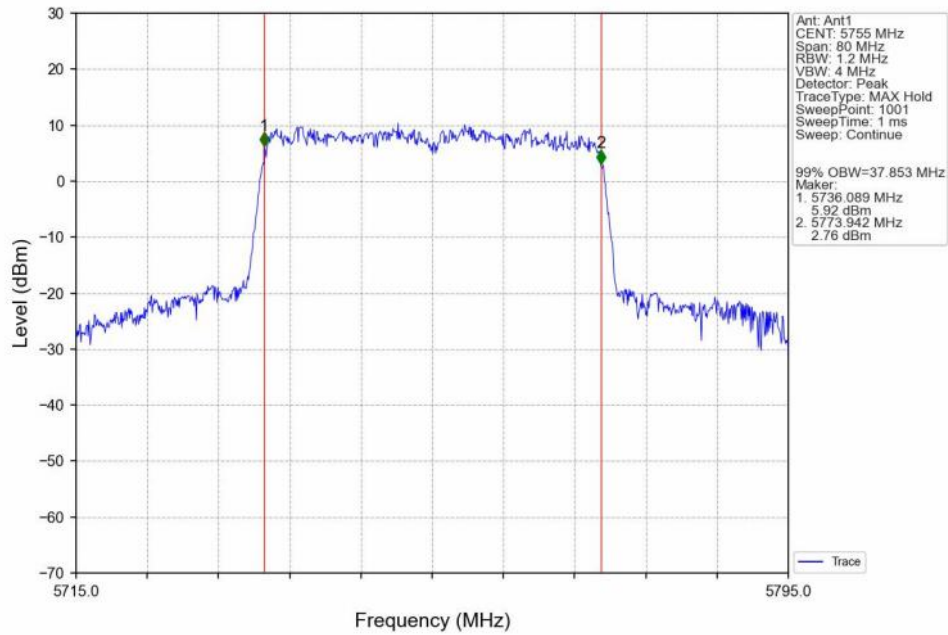
802.11ax(HEW40)_LCH_5190MHz_SU_ / Ant1_NTNV



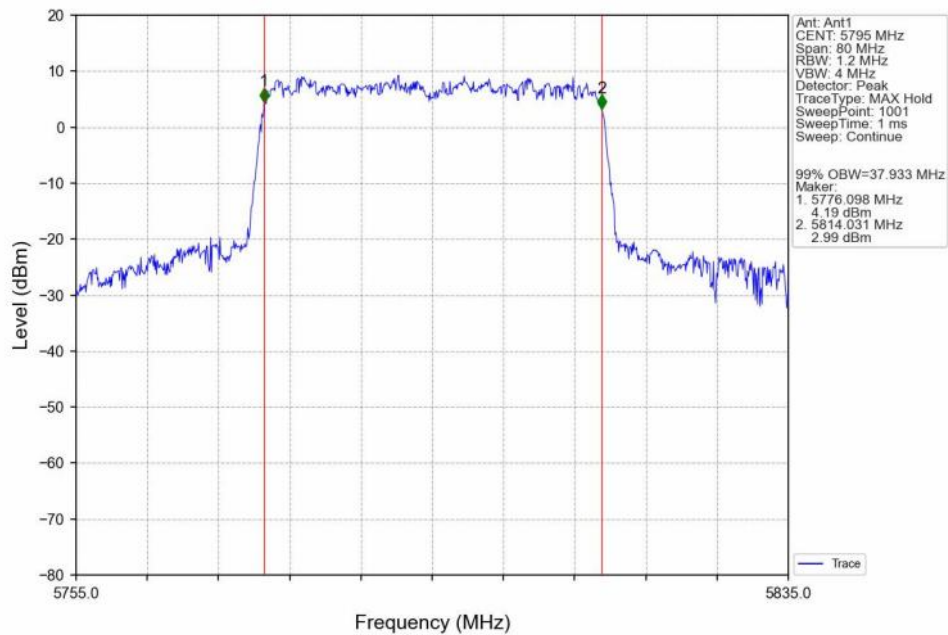
802.11ax(HEW40)_HCH_5230MHz_SU_ / Ant1_NTNV



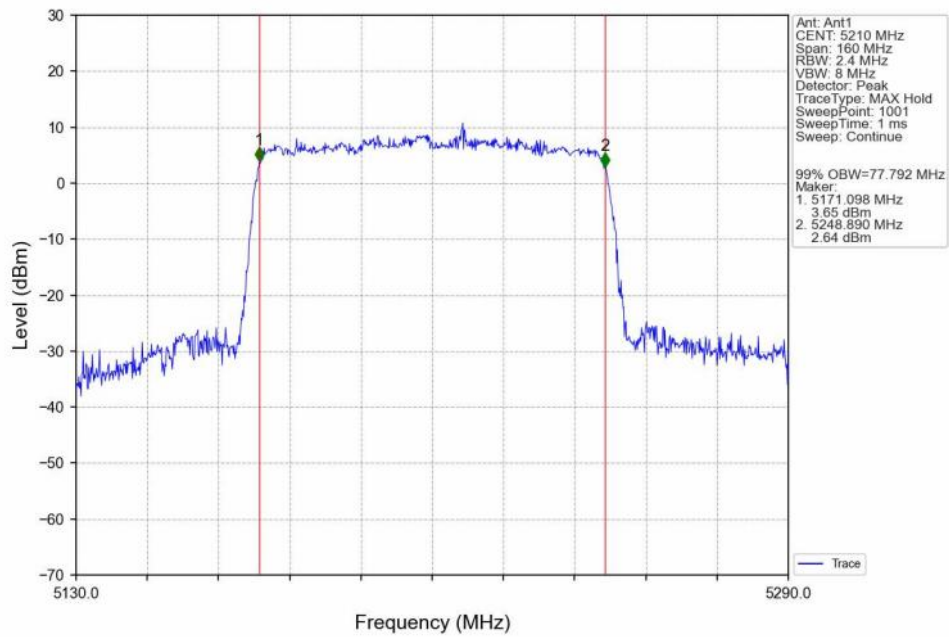
802.11ax(HEW40)_LCH_5755MHz_SU_ / Ant1_NTNV



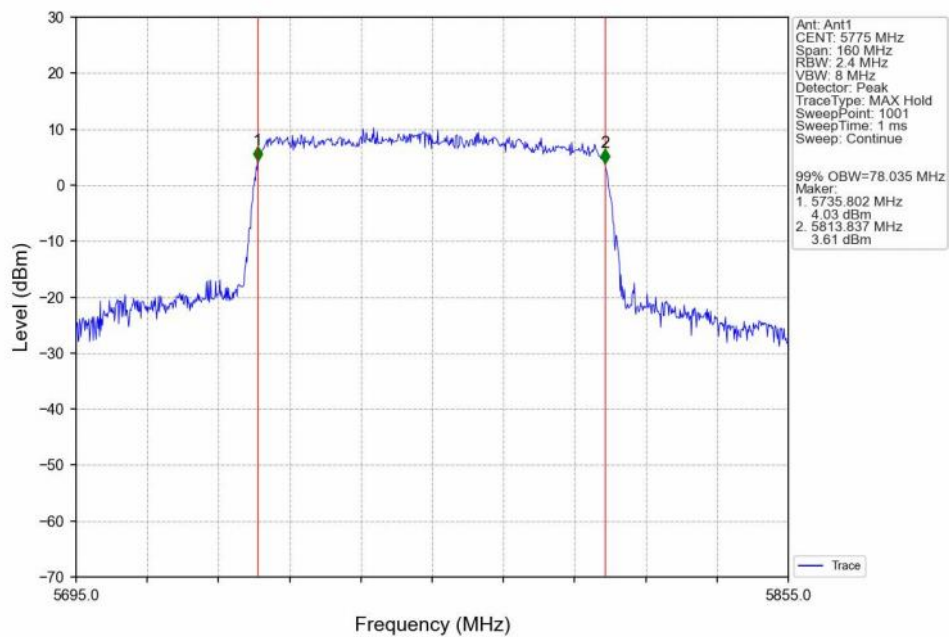
802.11ax(HEW40)_HCH_5795MHz_SU_ / Ant1_NTNV



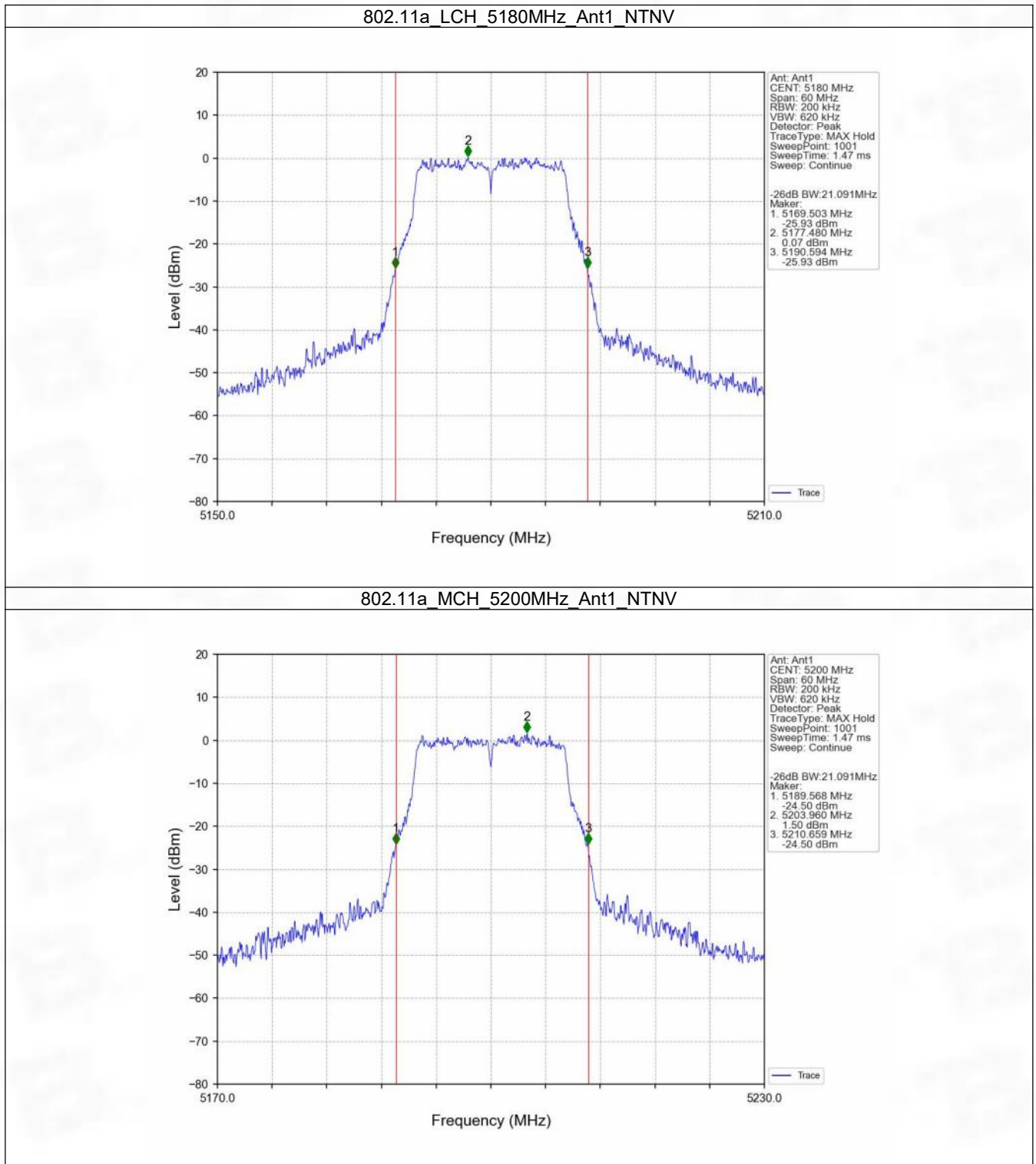
802.11ax(HEW80)_MCH_5210MHz_SU / _Ant1_NTNV



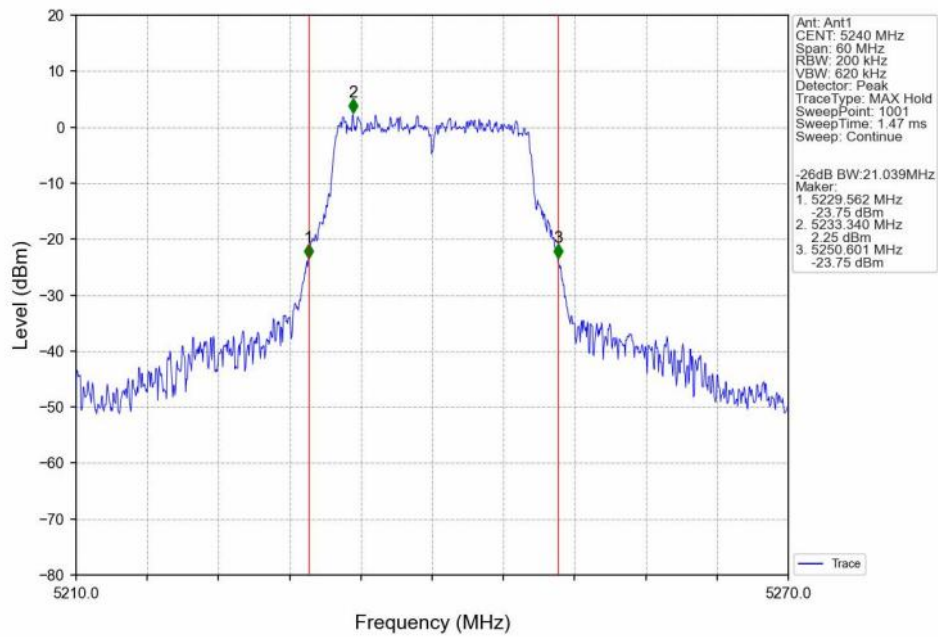
802.11ax(HEW80)_MCH_5775MHz_SU / _Ant1_NTNV



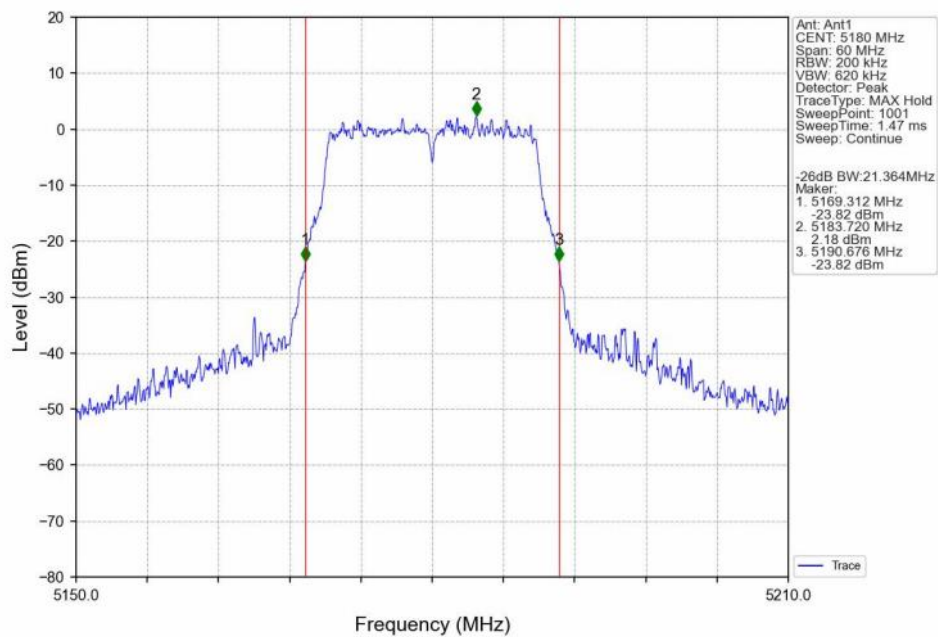
2.2.2 26dB BW



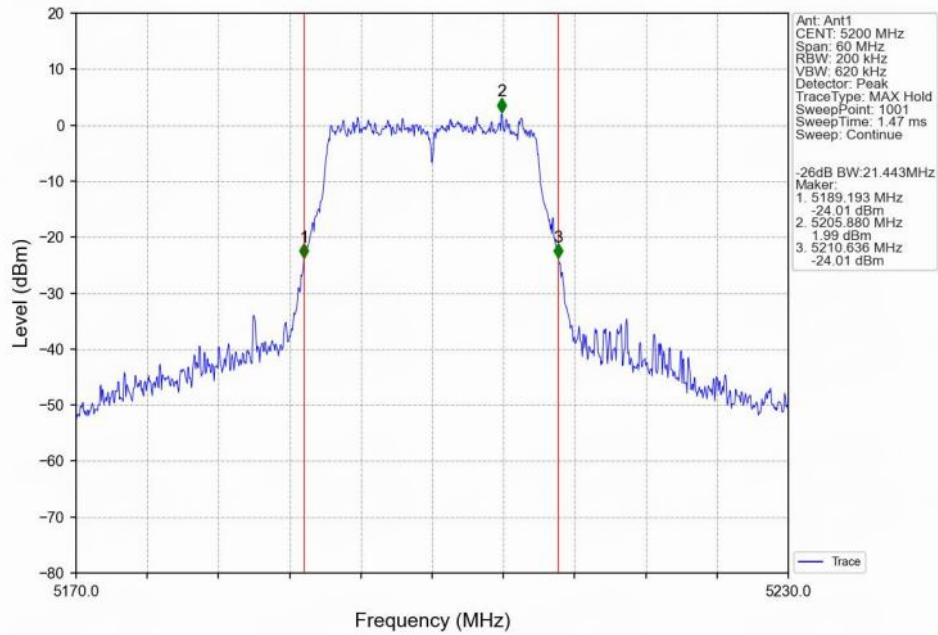
802.11a_HCH_5240MHz_Ant1_NTNV



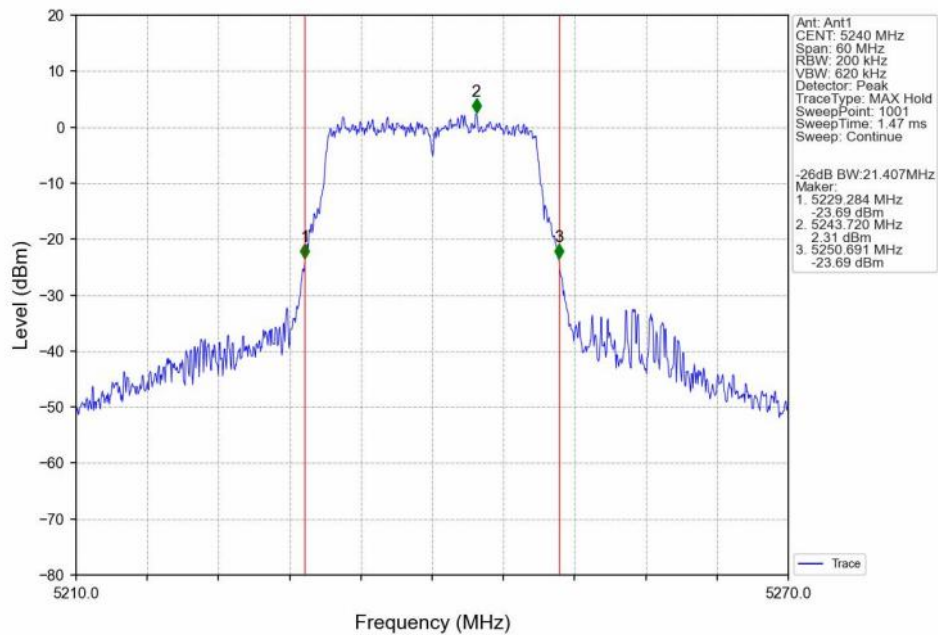
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



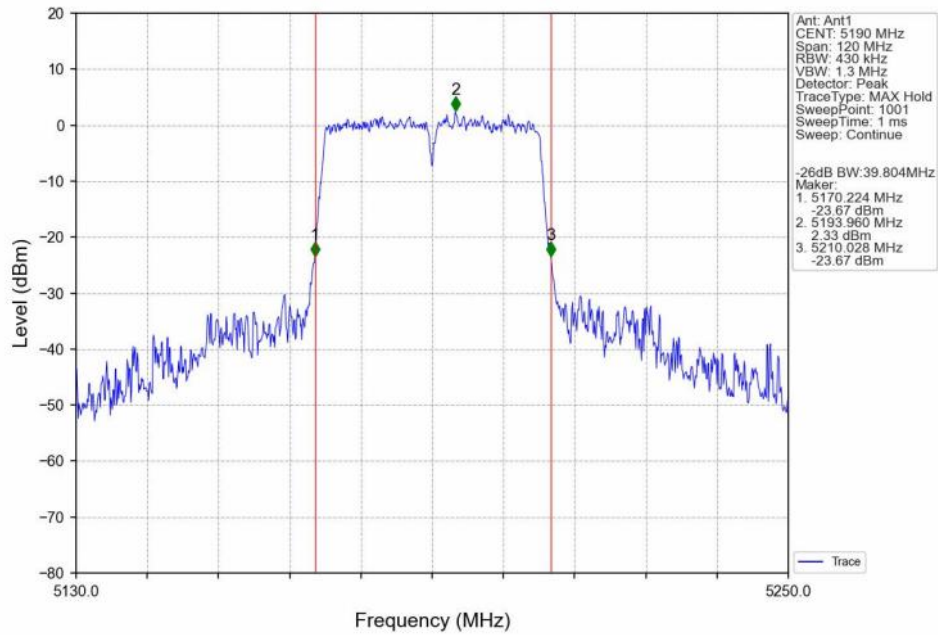
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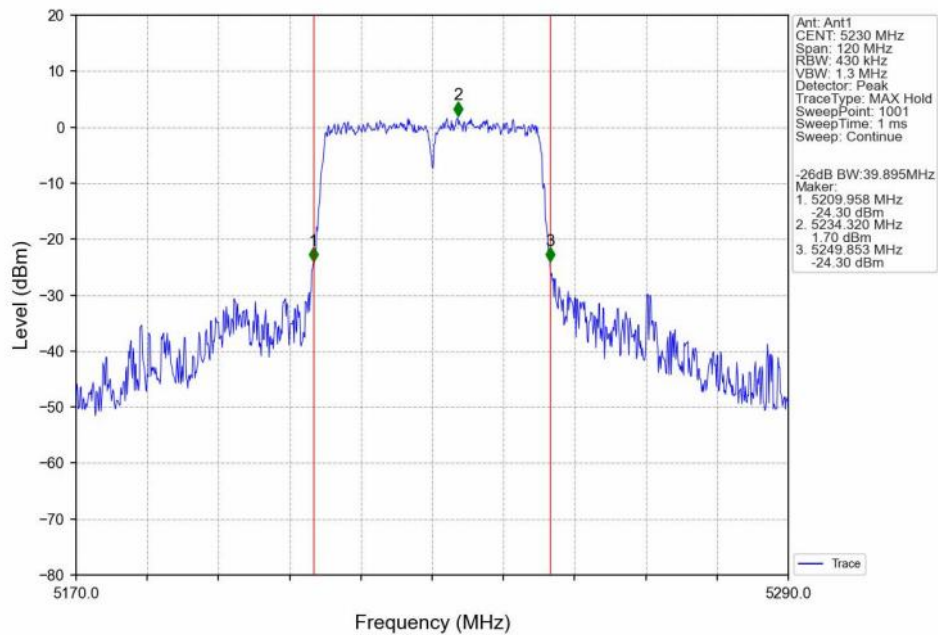
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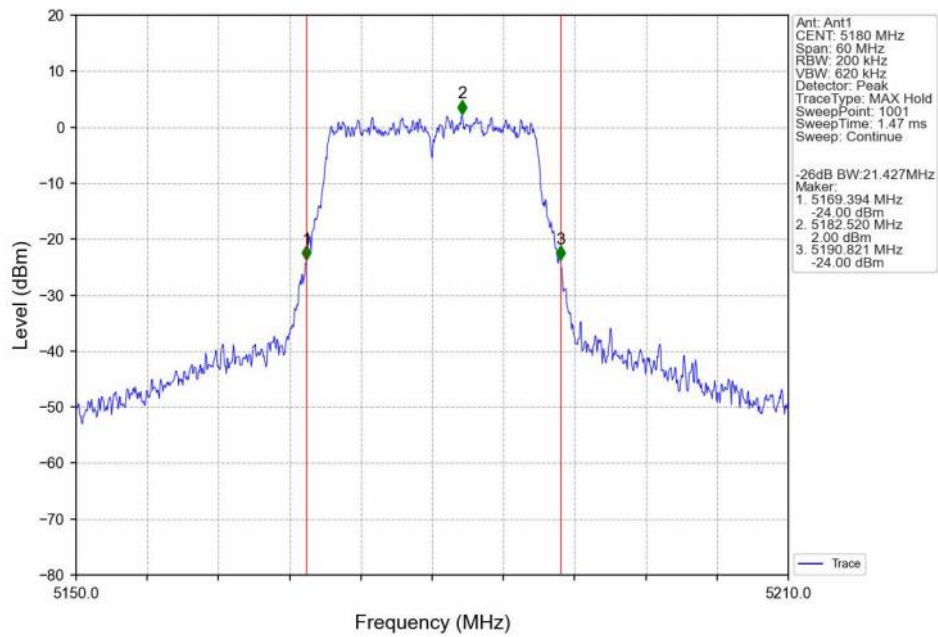
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



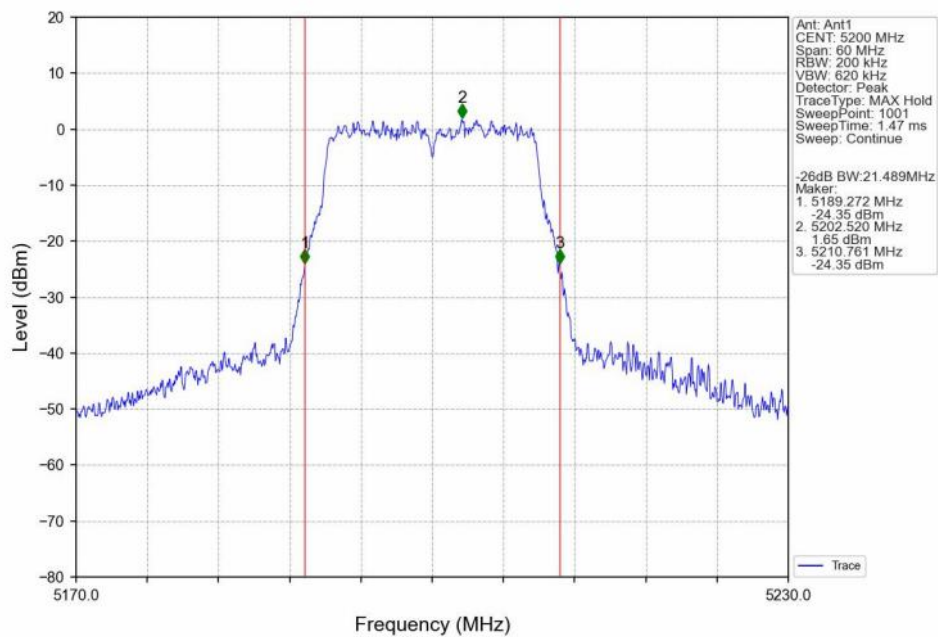
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



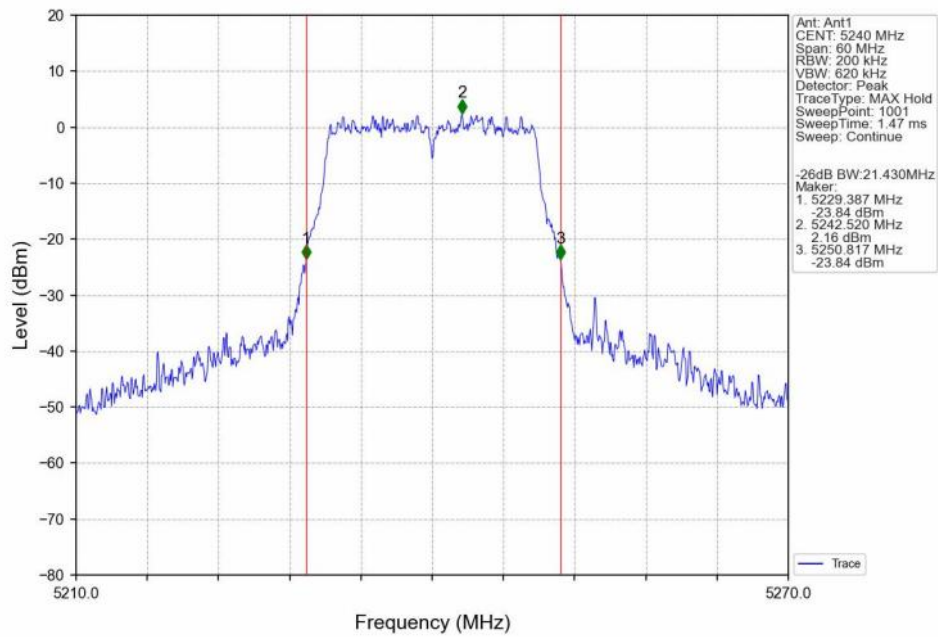
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



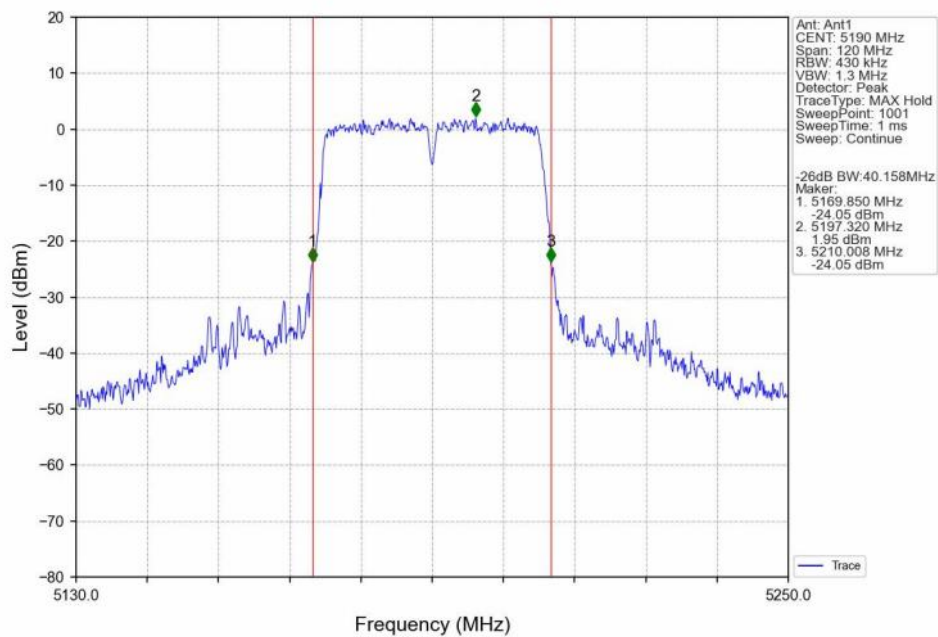
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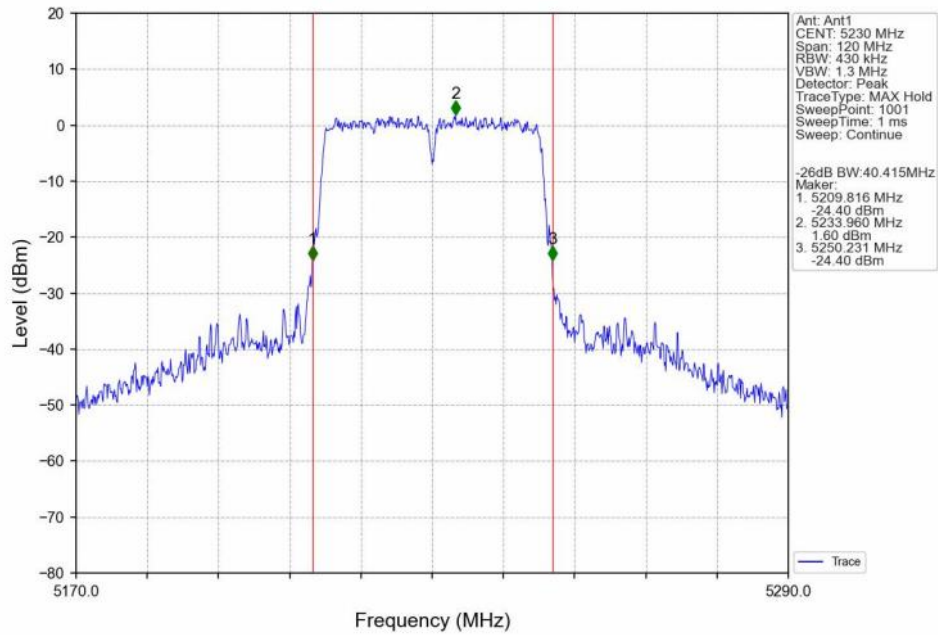
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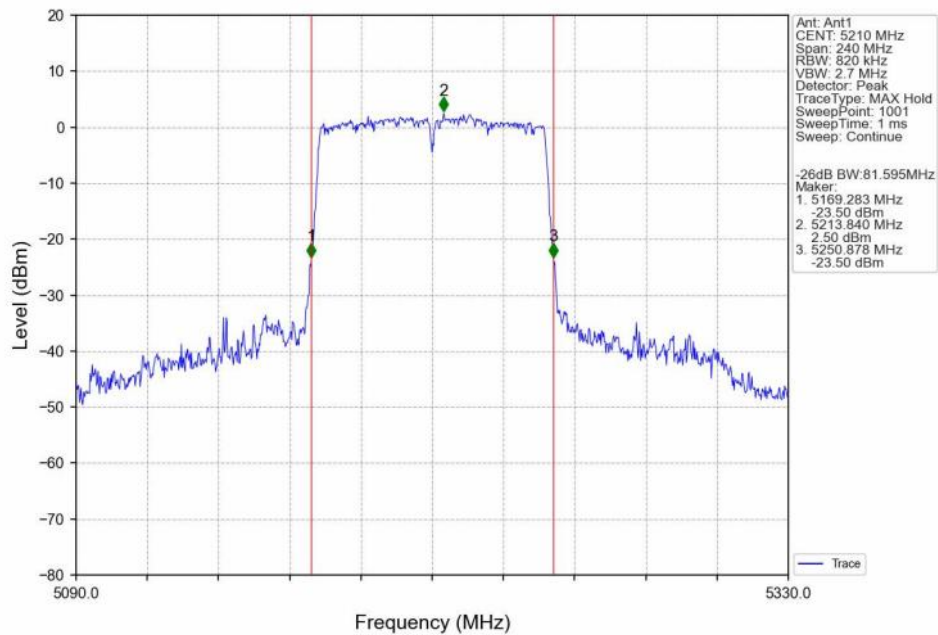
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



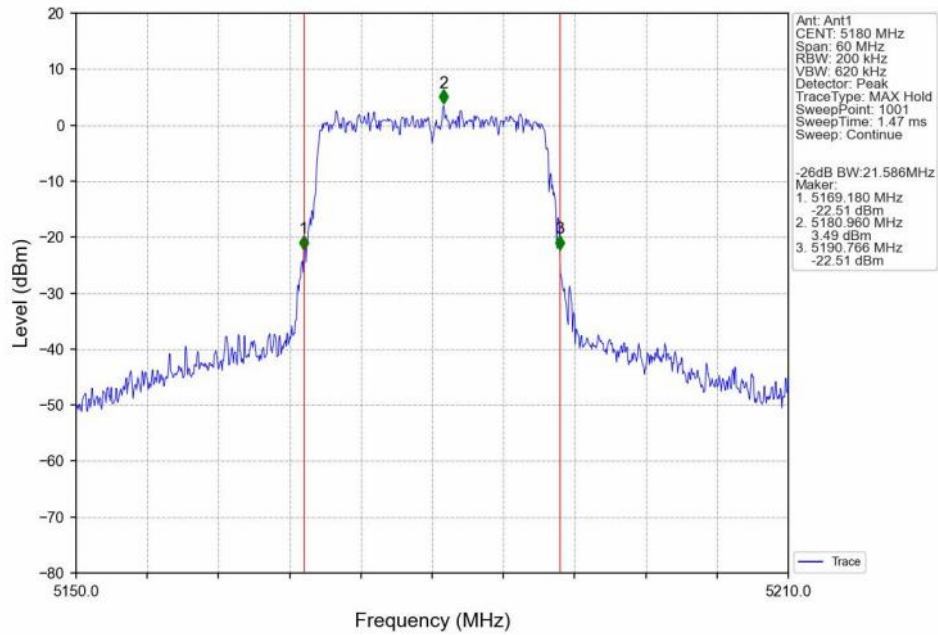
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



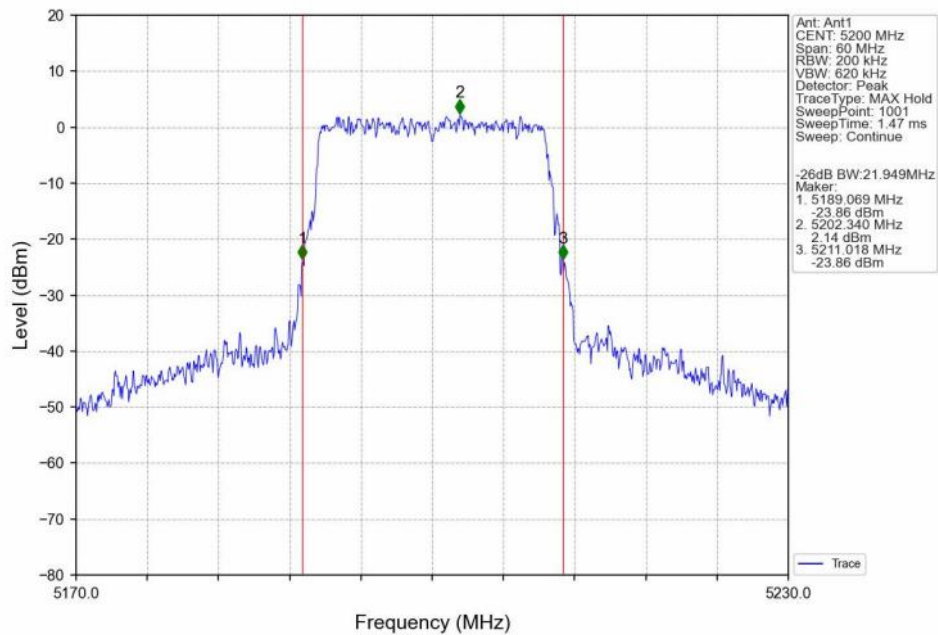
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



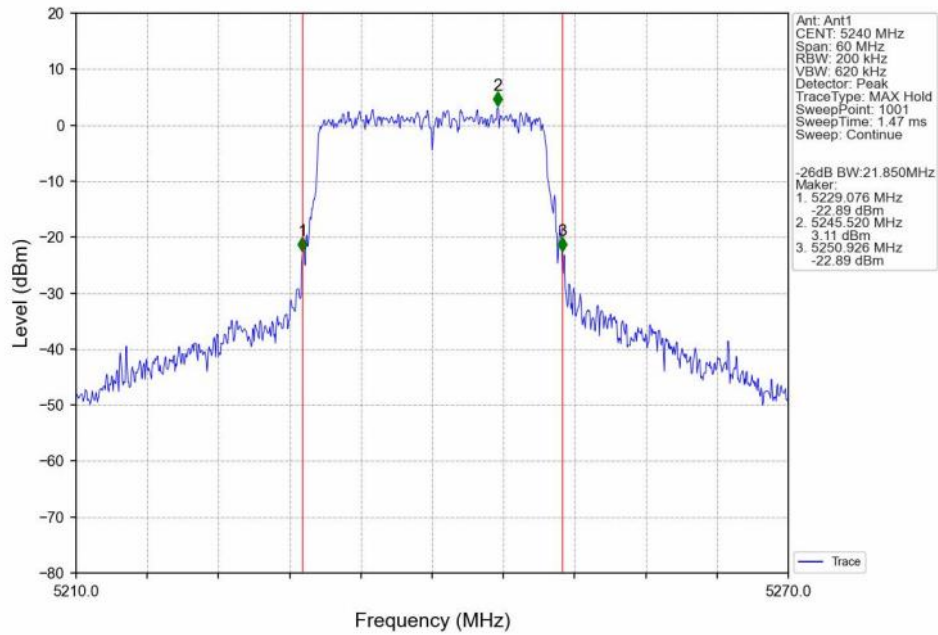
802.11ax(HEW20)_LCH_5180MHz_SU_ / Ant1_NTNV



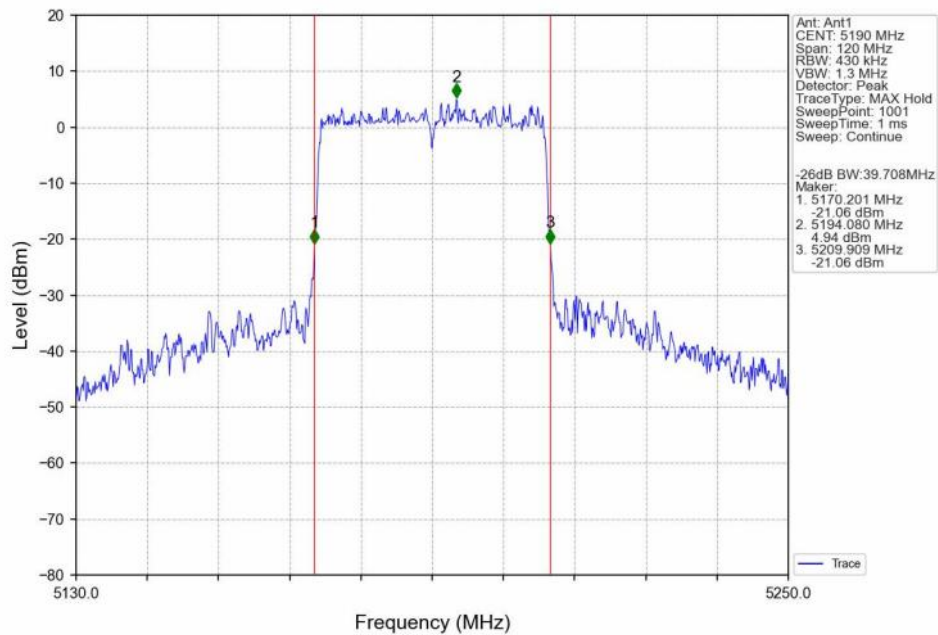
802.11ax(HEW20)_MCH_5200MHz_SU_ / Ant1_NTNV



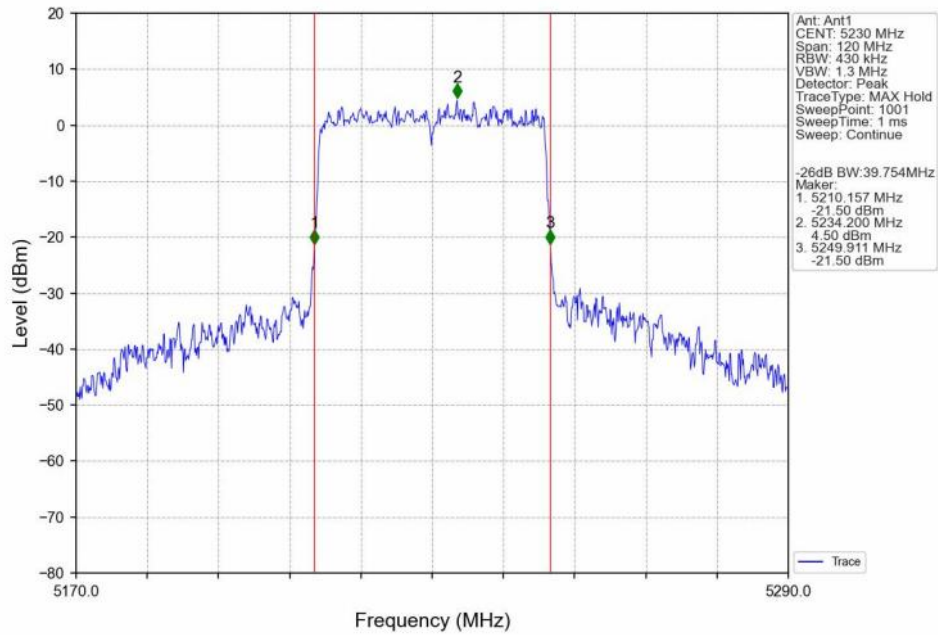
802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



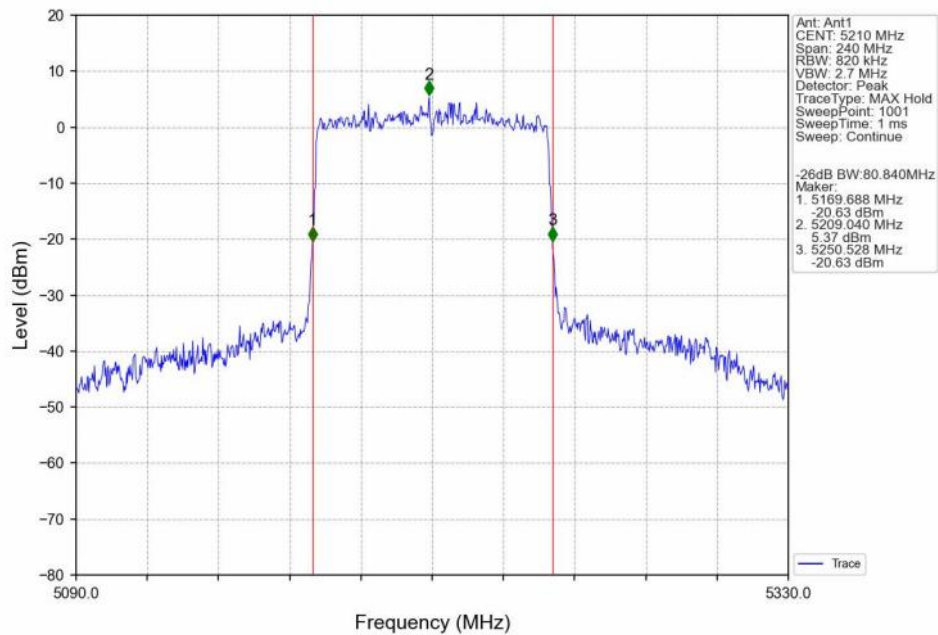
802.11ax(HEW40)_LCH_5190MHz_SU_/_Ant1_NTNV



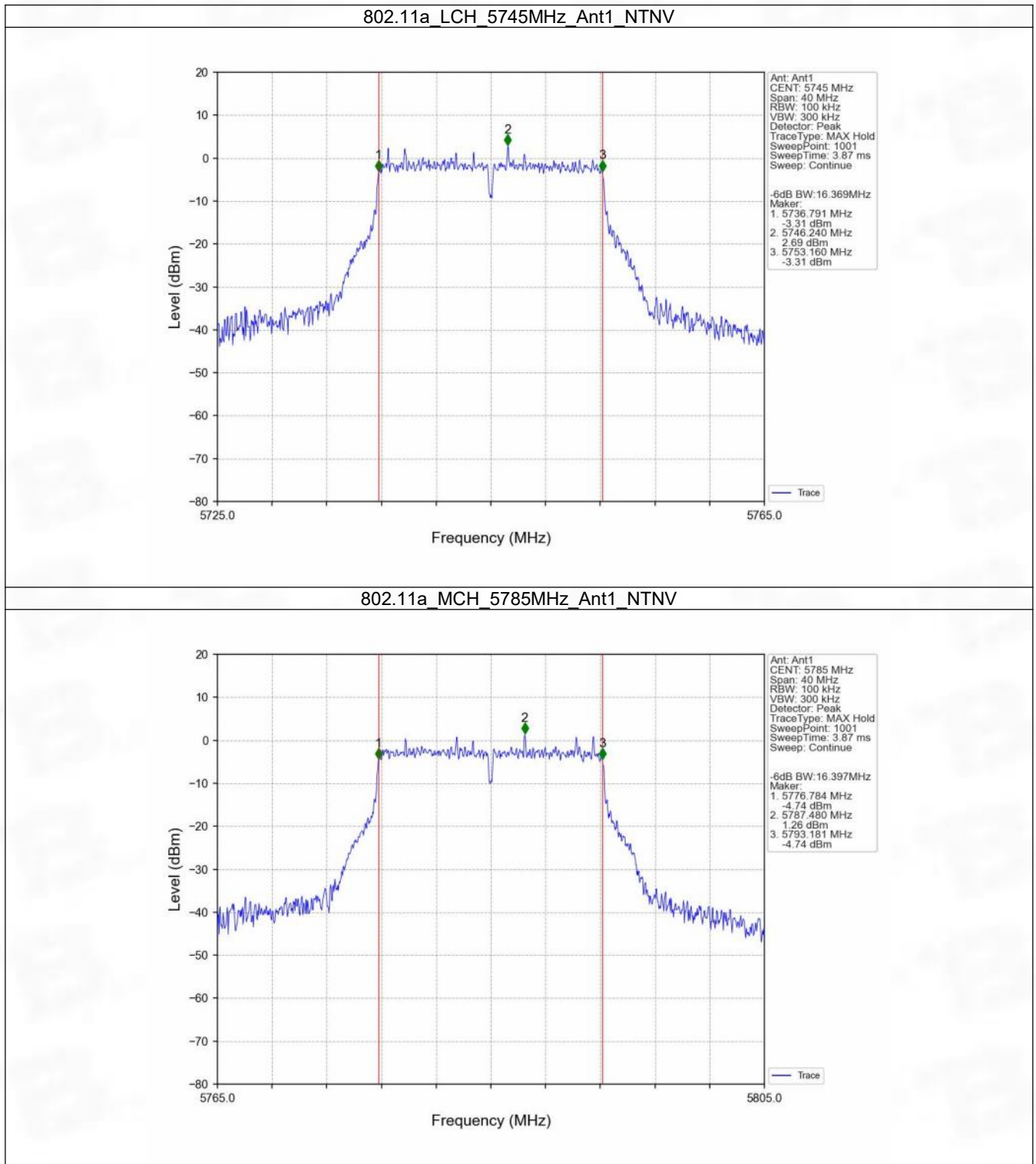
802.11ax(HEW40)_HCH_5230MHz_SU_/_Ant1_NTNV



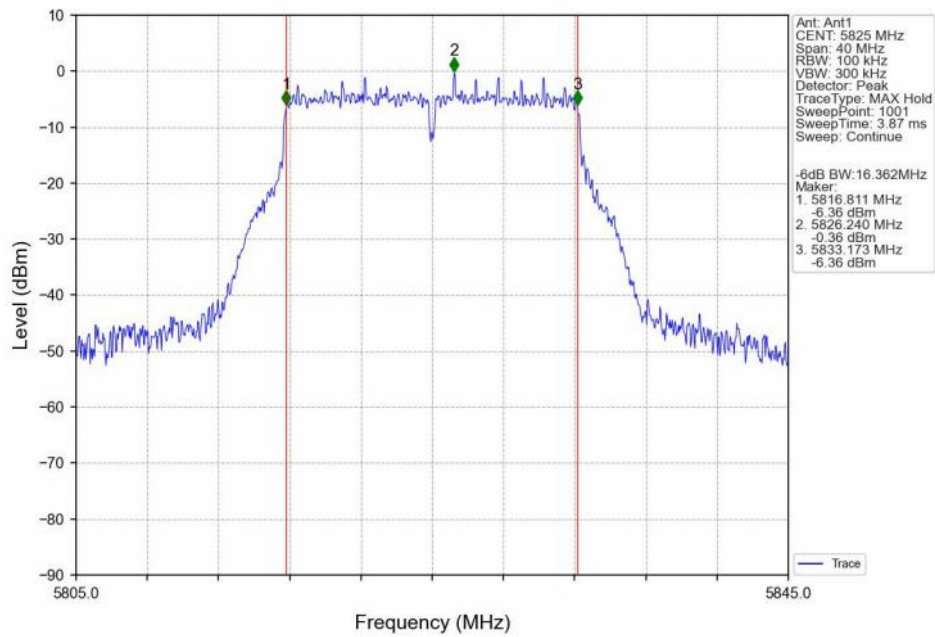
802.11ax(HEW80)_MCH_5210MHz_SU_/_Ant1_NTNV



2.2.3 6dB BW



802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

