

Appendix RF test data for 5G WIFI

1. Duty Cycle

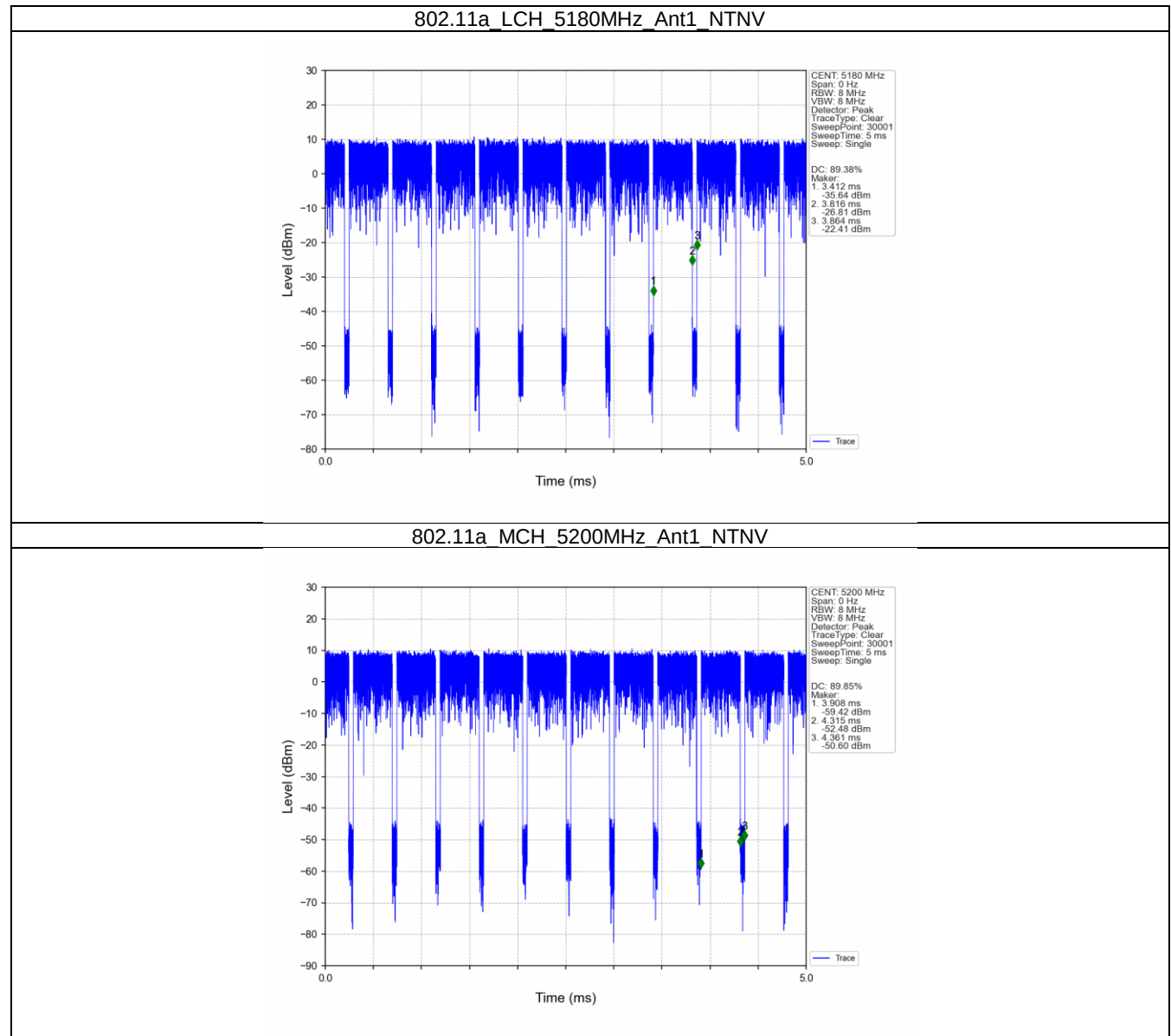
1.1 Test Result

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	/	/	0.404	0.452	89.38	0.49	0.26
		5200	/	/	0.407	0.453	89.85	0.47	0.27
		5240	/	/	0.404	0.453	89.18	0.50	0.51
		5745	/	/	0.406	0.453	89.62	0.48	0.27
		5785	/	/	0.406	0.452	89.82	0.47	0.37
		5825	/	/	0.407	0.453	89.85	0.47	0.57
802.11n (HT20)	SISO	5180	/	/	0.412	0.461	89.37	0.49	0.49
		5200	/	/	0.412	0.462	89.18	0.50	0.62
		5240	/	/	0.413	0.461	89.59	0.48	0.36
		5745	/	/	0.410	0.461	88.94	0.51	0.45
		5785	/	/	0.177	0.226	78.32	1.06	0.99
		5825	/	/	0.415	0.462	89.83	0.47	0.39
802.11n (HT40)	SISO	5190	/	/	0.424	0.473	89.64	0.47	0.48
		5230	/	/	0.424	0.472	89.83	0.47	0.29
		5755	/	/	0.424	0.472	89.83	0.47	0.35
		5795	/	/	0.426	0.471	90.45	0.44	0.29
802.11ac (VHT20)	SISO	5180	/	/	0.403	0.449	89.76	0.47	0.24
		5200	/	/	0.400	0.449	89.09	0.50	0.44
		5240	/	/	0.400	0.449	89.09	0.50	0.40
		5745	/	/	0.401	0.449	89.31	0.49	0.40
		5785	/	/	0.400	0.449	89.09	0.50	0.49
		5825	/	/	0.401	0.449	89.31	0.49	0.40
802.11ac (VHT40)	SISO	5190	/	/	0.405	0.453	89.40	0.49	0.50
		5230	/	/	0.405	0.453	89.40	0.49	0.39
		5755	/	/	0.407	0.453	89.85	0.47	0.44
		5795	/	/	0.404	0.453	89.18	0.50	0.40
802.11ax (HEW20)	SISO	5180	SU	/	0.175	0.224	78.13	1.07	0.93
		5200	SU	/	0.175	0.224	78.13	1.07	0.50
		5240	SU	/	0.175	0.223	78.48	1.05	0.34
		5745	SU	/	0.175	0.224	78.13	1.07	0.93
		5785	SU	/	0.175	0.224	78.13	1.07	0.43
		5825	SU	/	0.175	0.224	78.13	1.07	0.34
802.11ax (HEW40)	SISO	5190	SU	/	0.170	0.219	77.63	1.10	0.71
		5230	SU	/	0.171	0.220	77.73	1.09	0.40
		5755	SU	/	0.171	0.219	78.08	1.07	0.25
		5795	SU	/	0.170	0.219	77.63	1.10	0.44

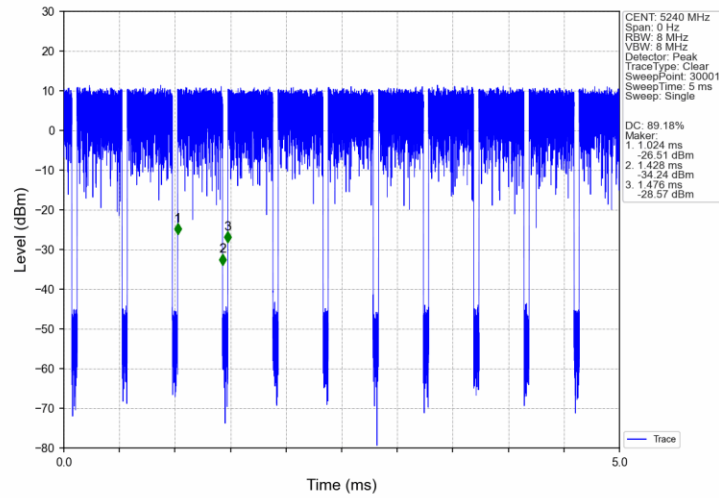
1.2 Test Graph

1.2.1 Ant1

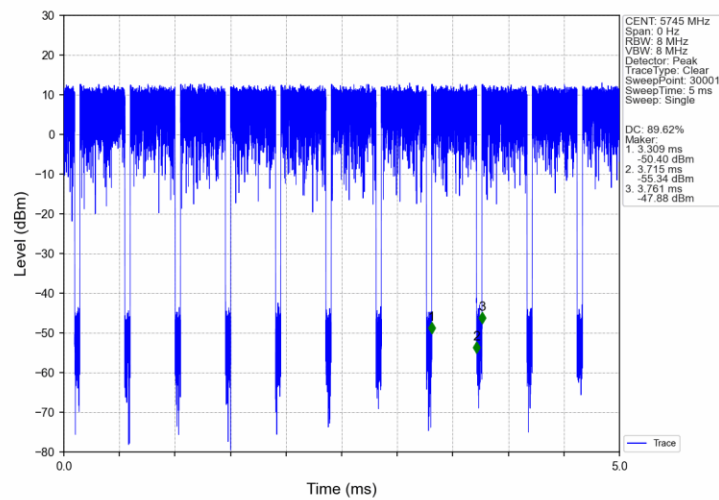




802.11a_HCH_5240MHz_Ant1_NTNV

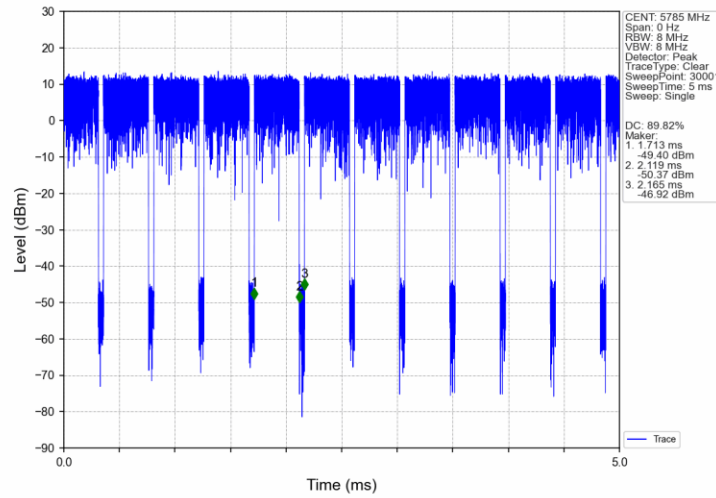


802.11a_LCH_5745MHz_Ant1_NTNV

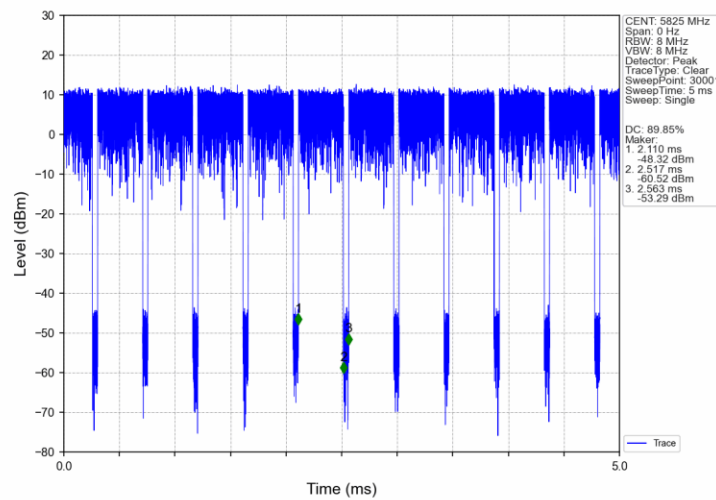




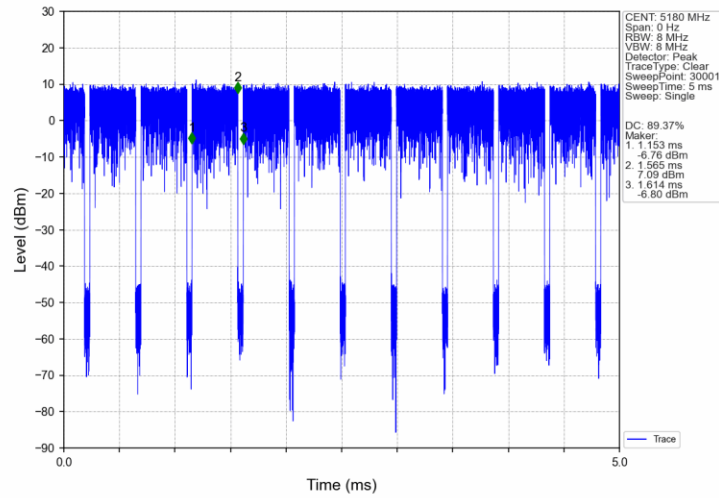
802.11a_MCH_5785MHz_Ant1_NTNV



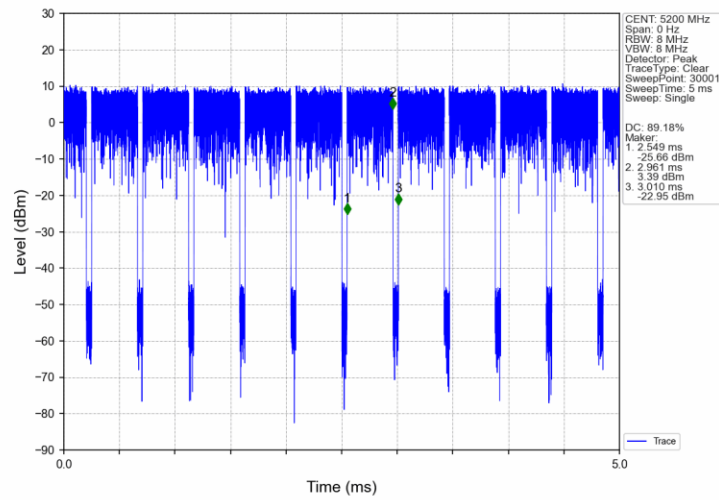
802.11a_HCH_5825MHz_Ant1_NTNV



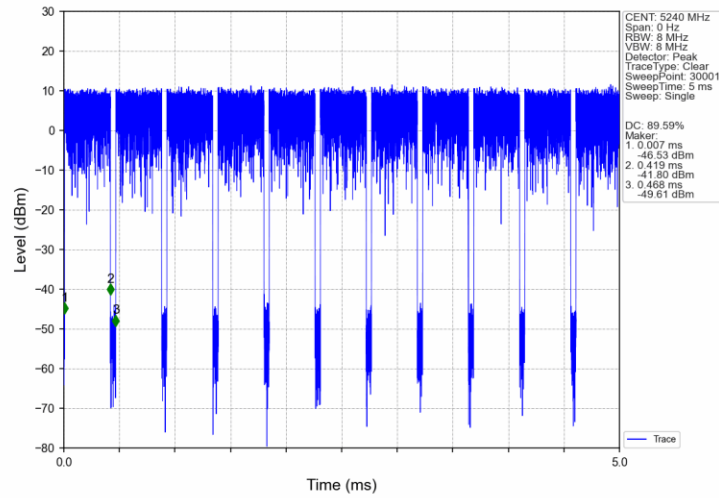
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



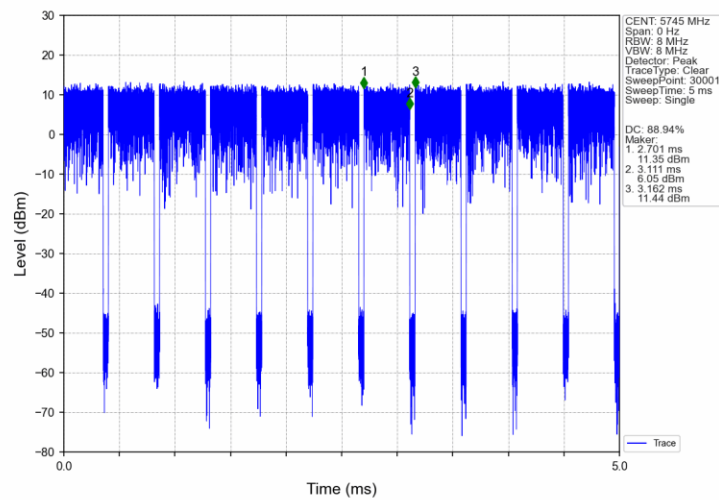
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

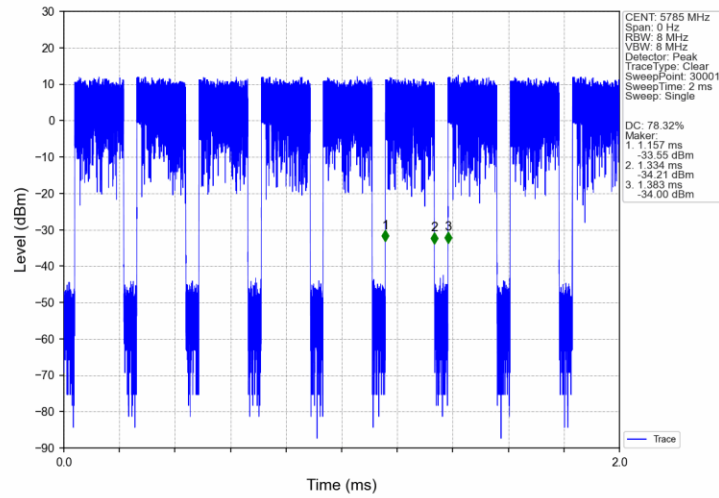


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

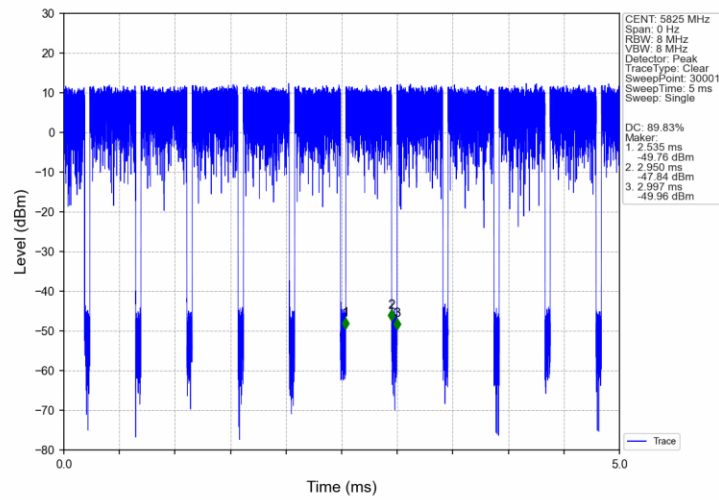




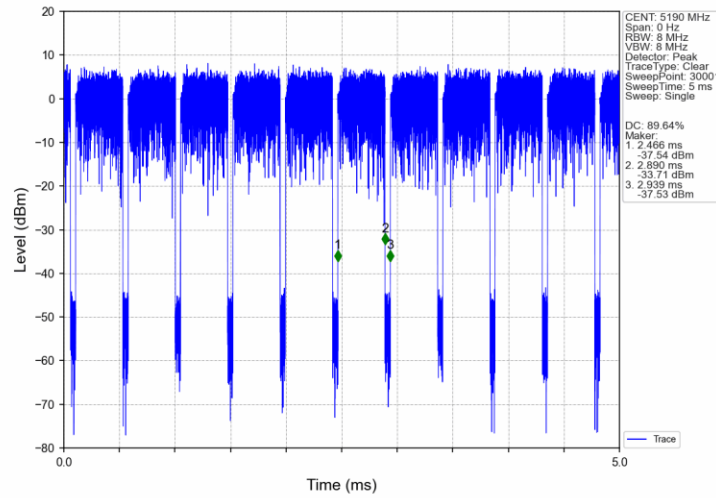
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



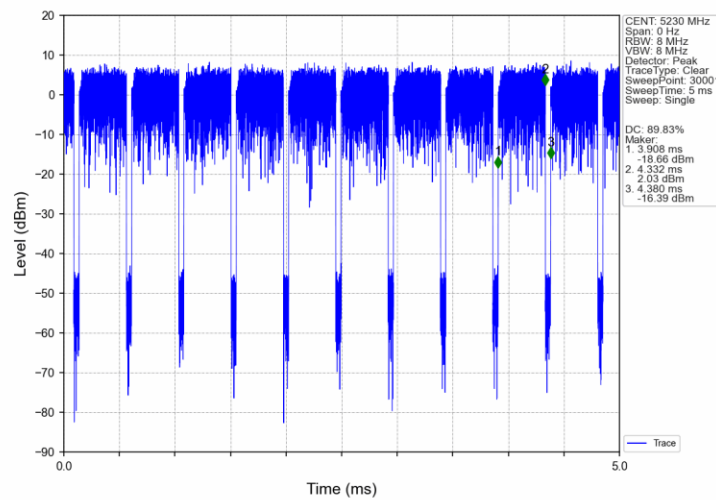
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



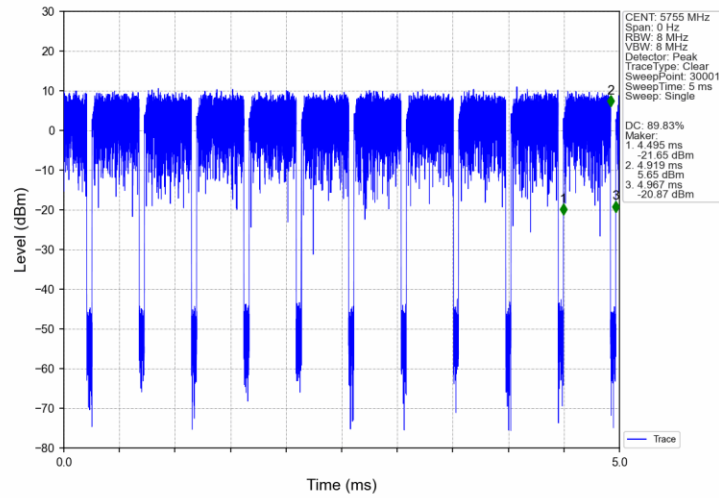
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



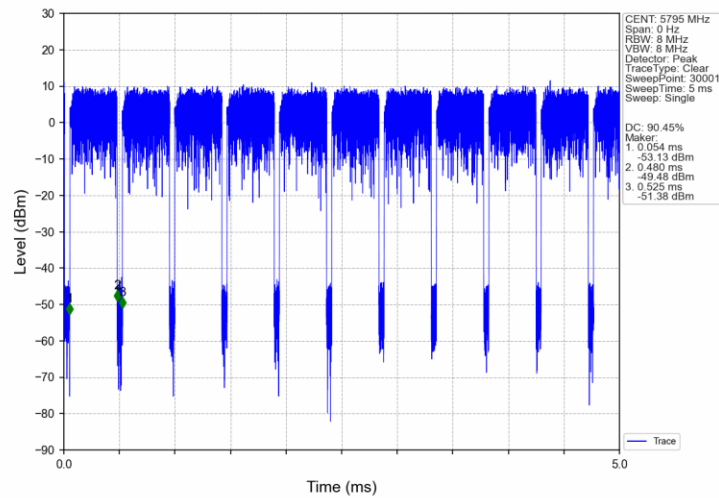
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



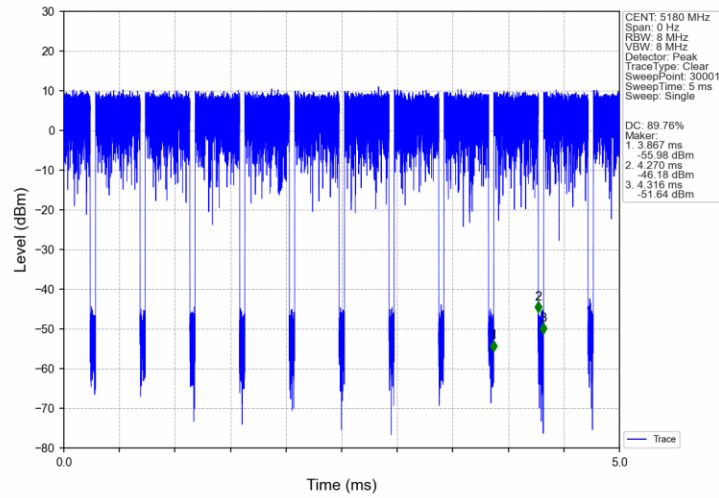
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



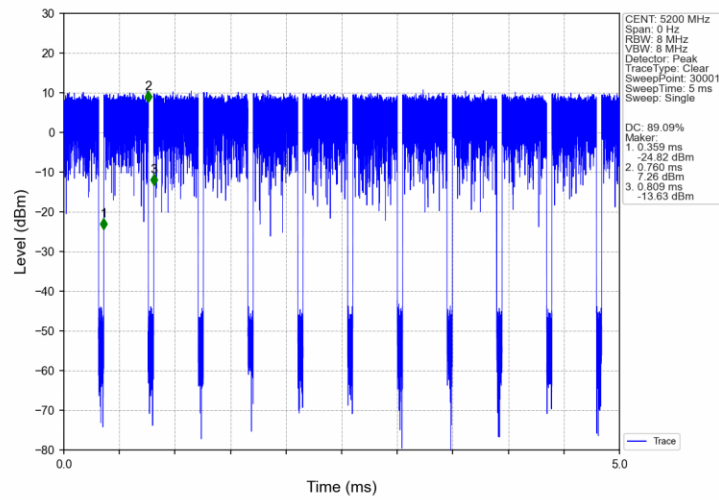
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



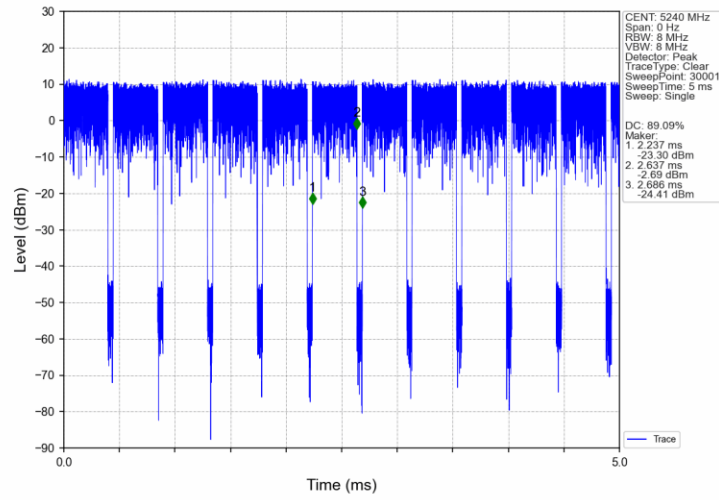
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



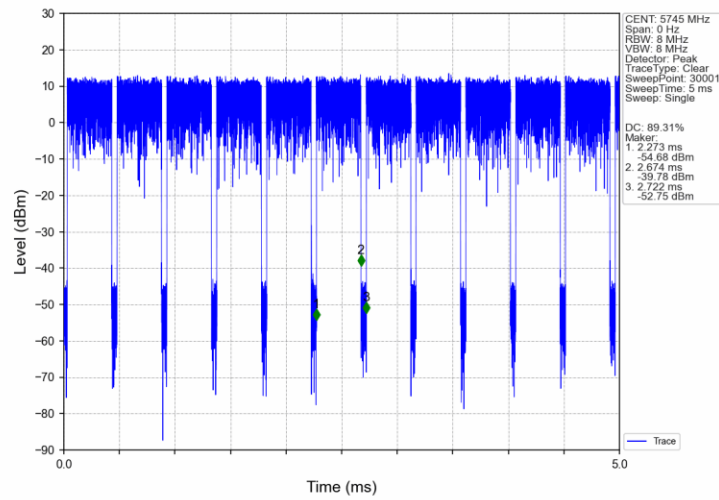
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



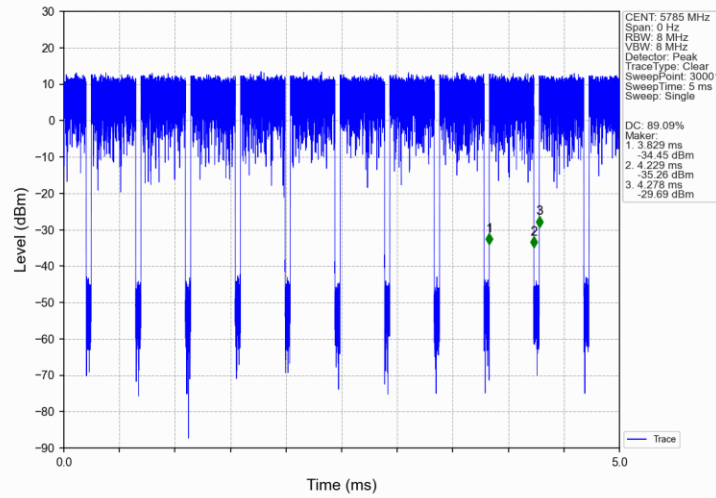
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



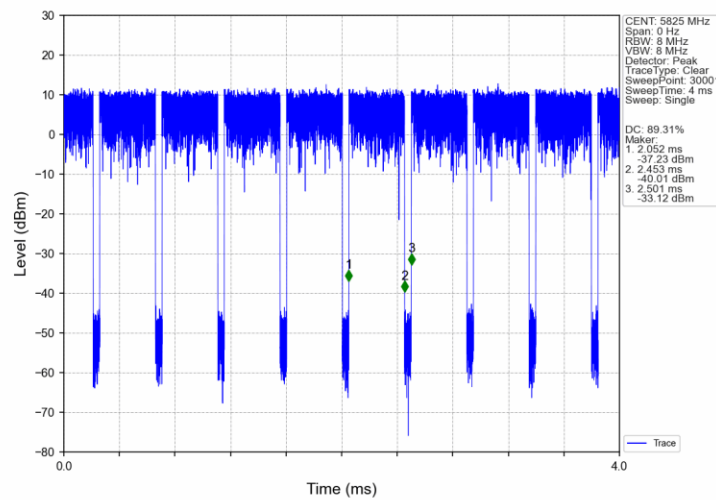
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



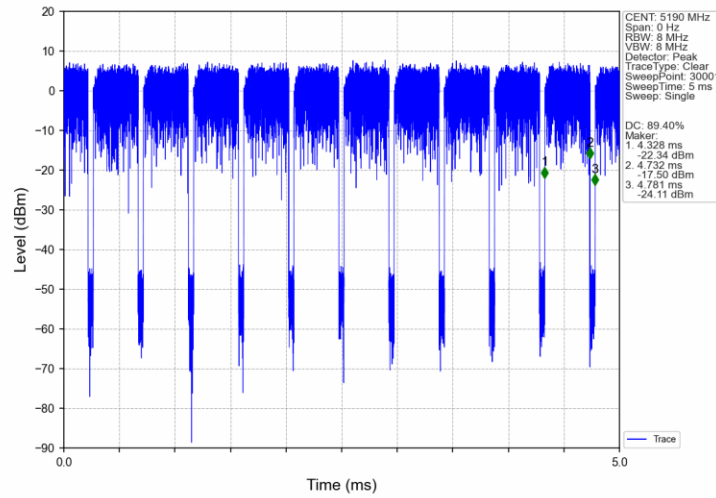
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



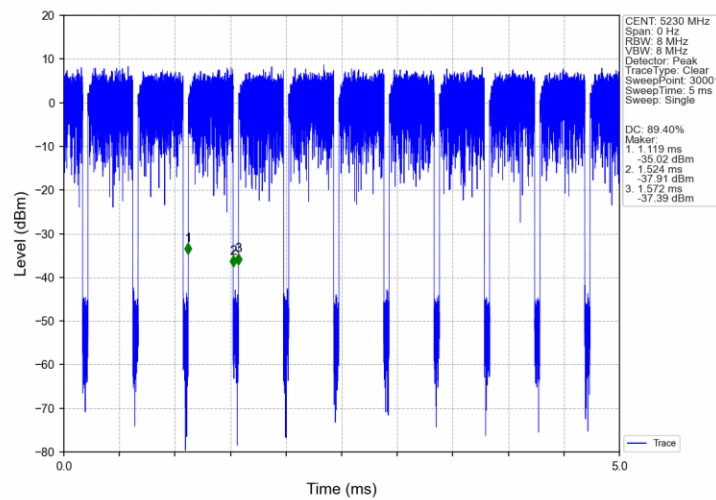
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



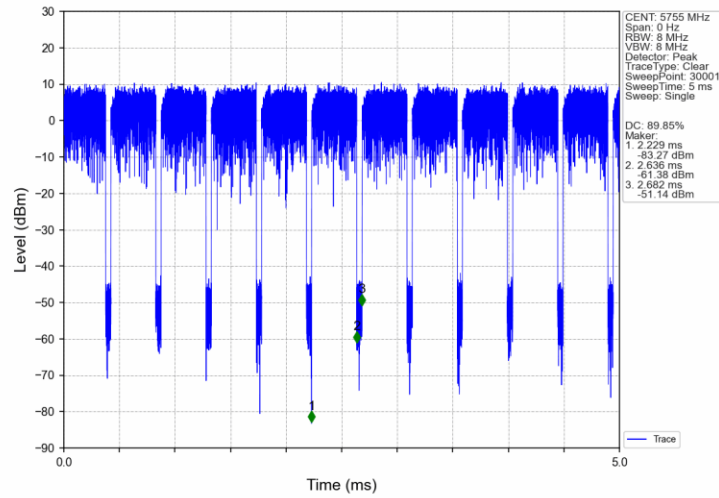
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



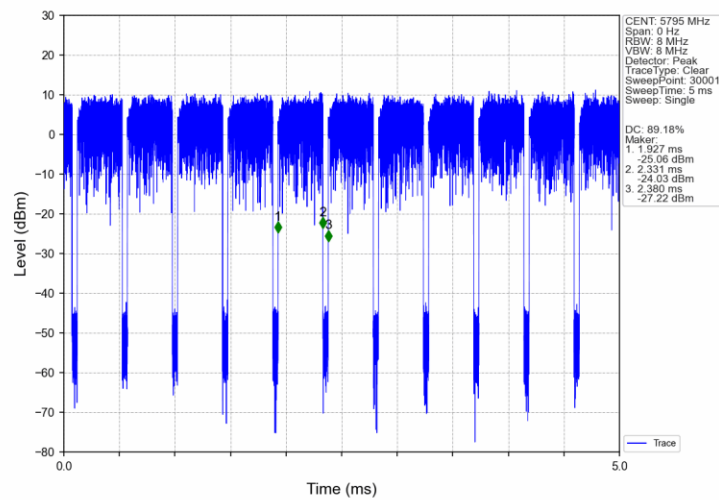
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



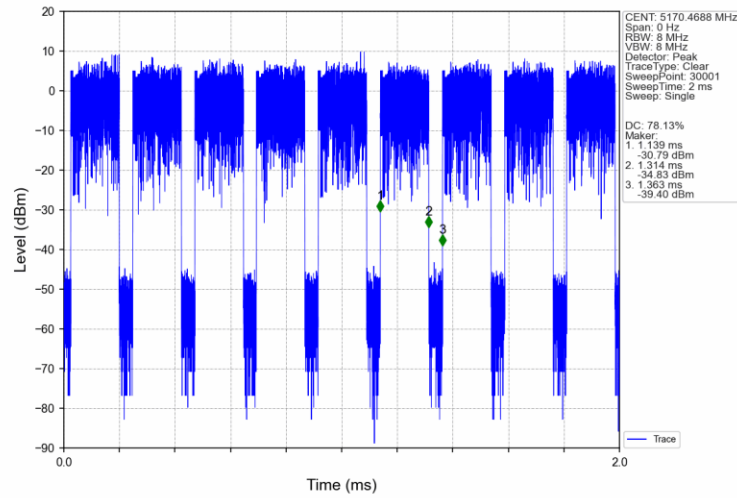
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



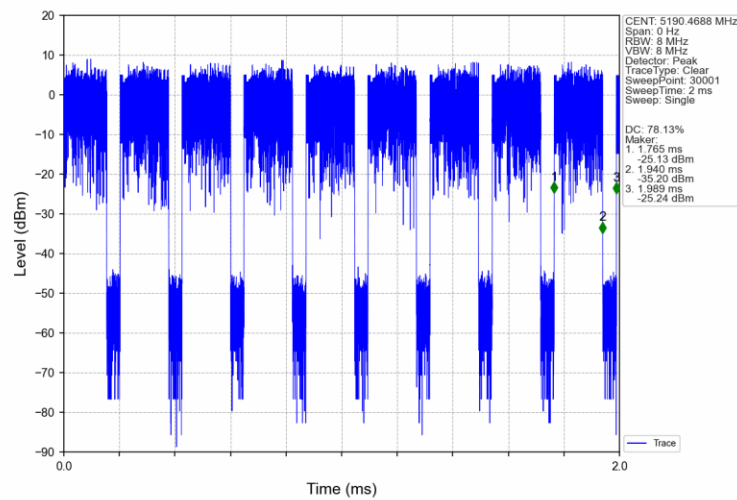
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



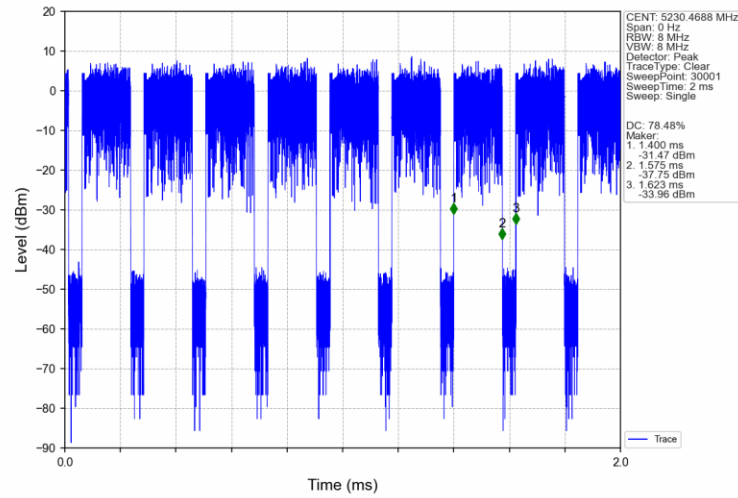
802.11ax(HEW20)_LCH_5180MHz_SU_/_Ant1_NTNV



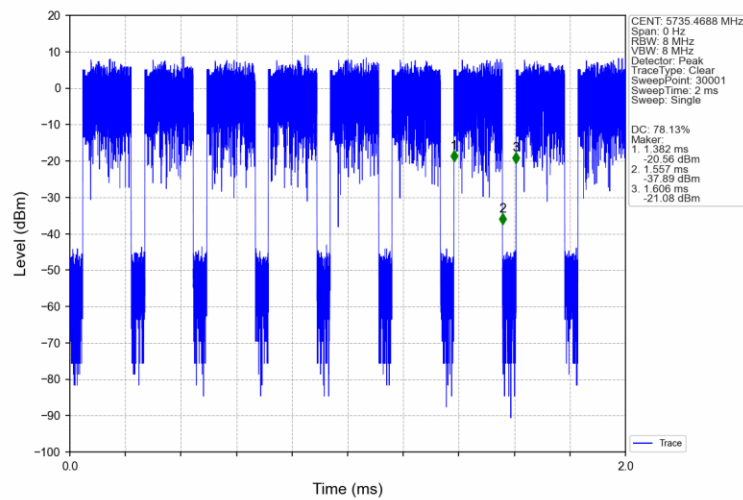
802.11ax(HEW20)_MCH_5200MHz_SU_/_Ant1_NTNV



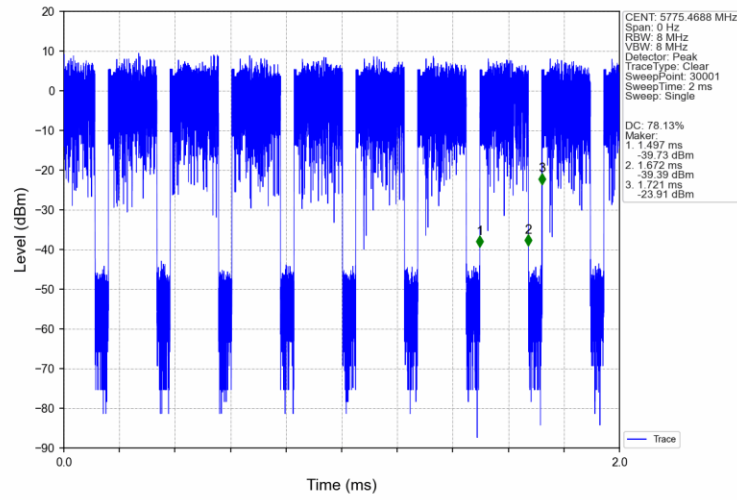
802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



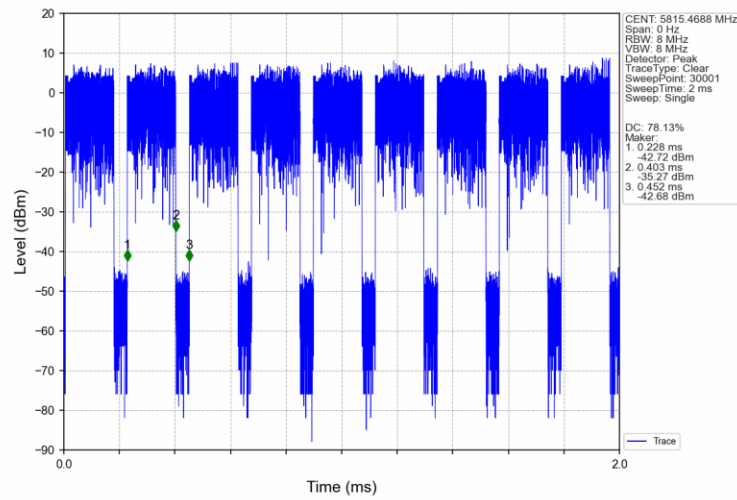
802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant1_NTNV



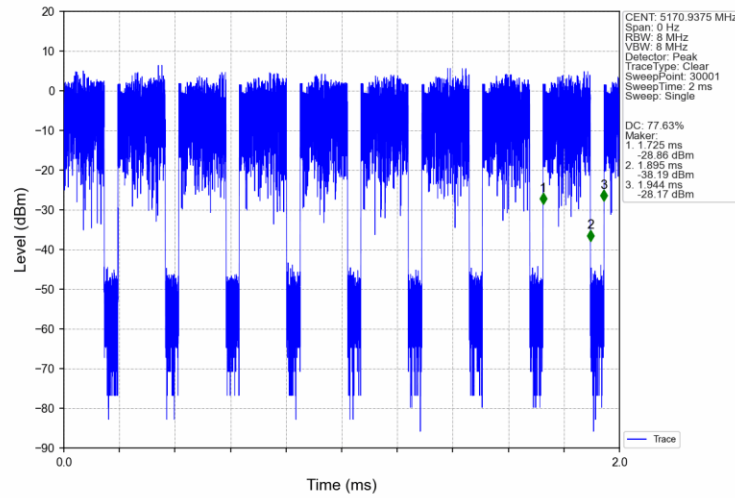
802.11ax(HEW20)_MCH_5785MHz_SU_/_Ant1_NTNV



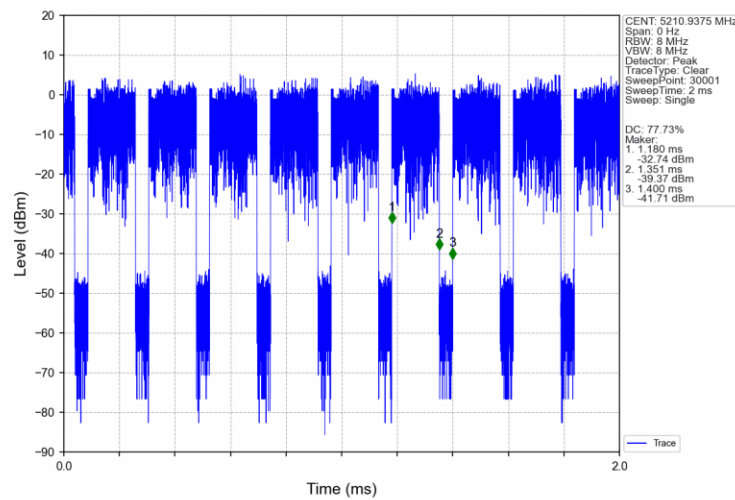
802.11ax(HEW20)_HCH_5825MHz_SU_/_Ant1_NTNV



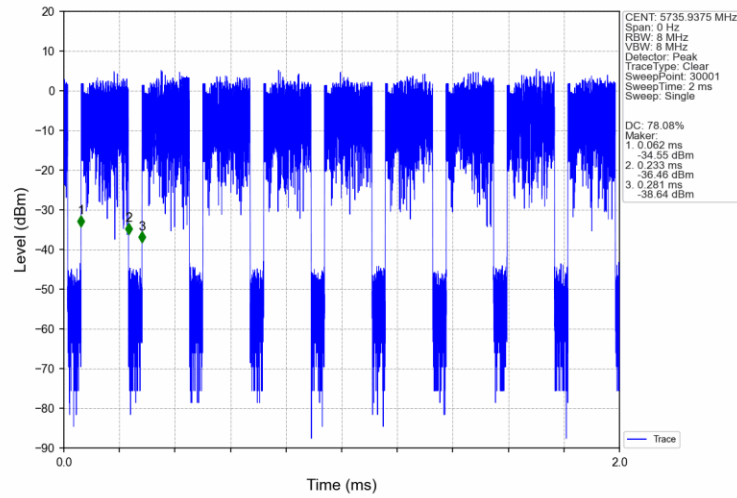
802.11ax(HEW40)_LCH_5190MHz_SU_/_Ant1_NTNV



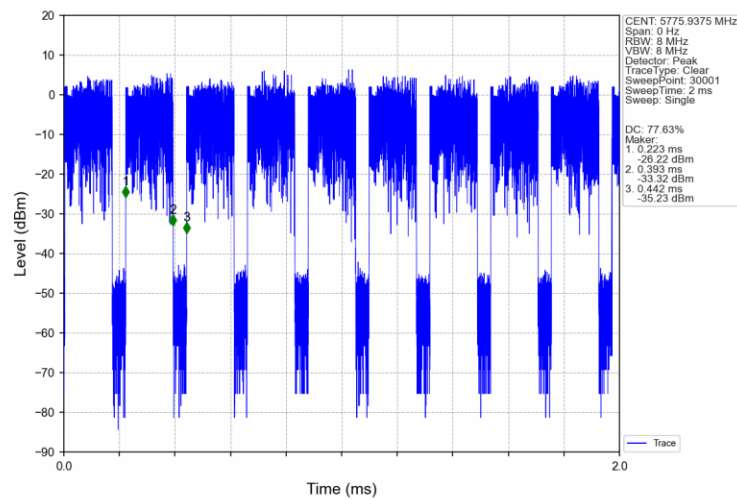
802.11ax(HEW40)_HCH_5230MHz_SU_/_Ant1_NTNV



802.11ax(HEW40)_LCH_5755MHz_SU_/_Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant1_NTNV



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	16.626	/	Pass
		5200	/	/	1	16.637	/	Pass
		5240	/	/	1	16.621	/	Pass
		5745	/	/	1	16.627	/	Pass
		5785	/	/	1	16.642	/	Pass
		5825	/	/	1	16.609	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	17.743	/	Pass
		5200	/	/	1	17.723	/	Pass
		5240	/	/	1	17.709	/	Pass
		5745	/	/	1	17.686	/	Pass
		5785	/	/	1	17.700	/	Pass
		5825	/	/	1	17.717	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	36.267	/	Pass
		5230	/	/	1	36.199	/	Pass
		5755	/	/	1	36.234	/	Pass
		5795	/	/	1	36.184	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	17.753	/	Pass
		5200	/	/	1	17.702	/	Pass
		5240	/	/	1	17.721	/	Pass
		5745	/	/	1	17.768	/	Pass
		5785	/	/	1	17.707	/	Pass
		5825	/	/	1	17.735	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	36.271	/	Pass
		5230	/	/	1	36.238	/	Pass
		5755	/	/	1	36.177	/	Pass
		5795	/	/	1	36.209	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	18.879	/	Pass
		5200	SU	/	1	18.899	/	Pass
		5240	SU	/	1	18.848	/	Pass
		5745	SU	/	1	18.869	/	Pass
		5785	SU	/	1	18.841	/	Pass
		5825	SU	/	1	18.877	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	37.609	/	Pass
		5230	SU	/	1	37.654	/	Pass
		5755	SU	/	1	37.672	/	Pass
		5795	SU	/	1	37.661	/	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	23.333	/	Pass
		5200	/	/	1	23.554	/	Pass
		5240	/	/	1	23.784	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	23.922	/	Pass
		5200	/	/	1	24.314	/	Pass

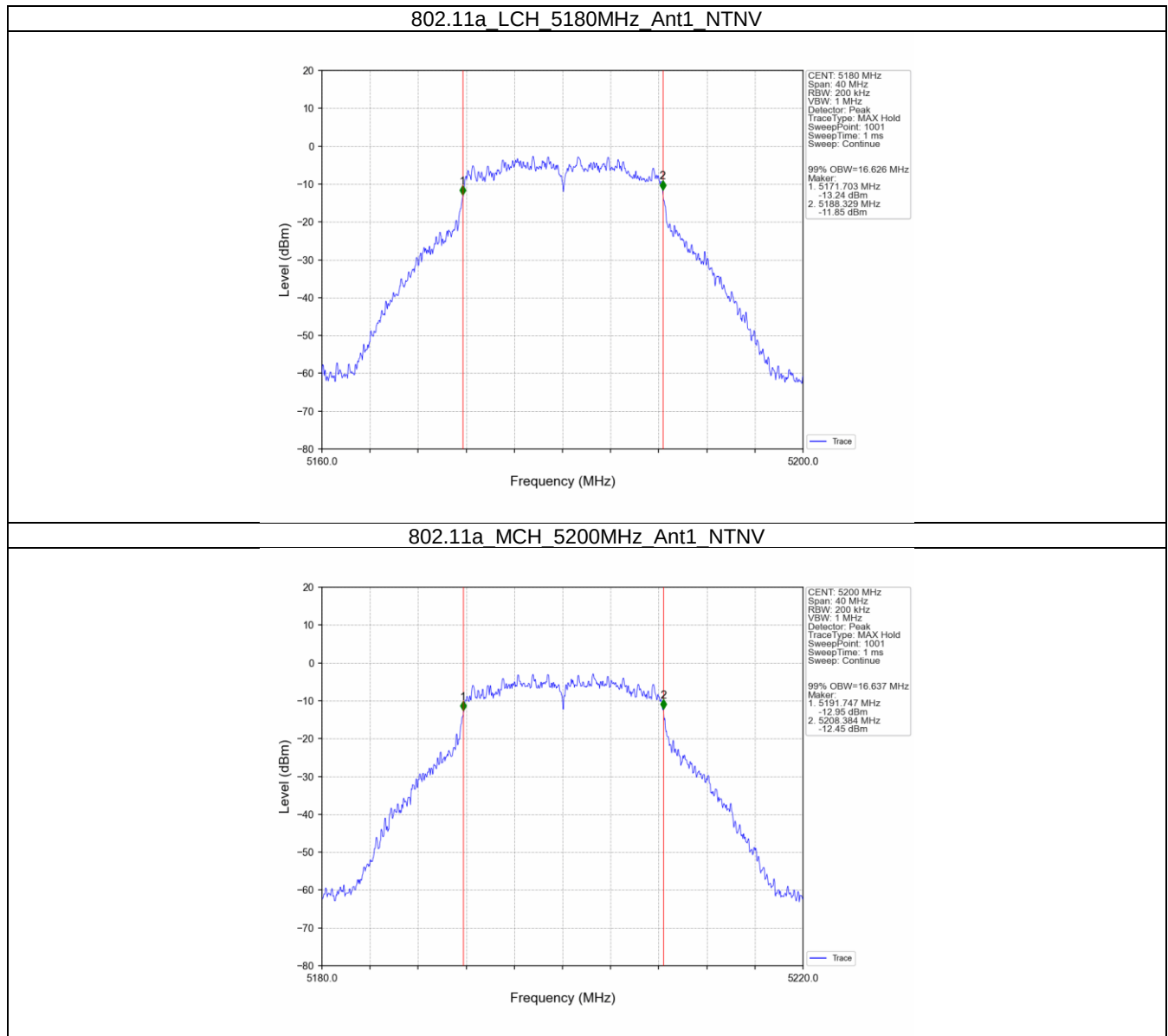
		5240	/	/	1	24.326	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	43.335	/	Pass
		5230	/	/	1	44.072	/	Pass
		5180	/	/	1	24.277	/	Pass
802.11ac (VHT20)	SISO	5200	/	/	1	23.960	/	Pass
		5240	/	/	1	24.207	/	Pass
		5190	/	/	1	43.145	/	Pass
802.11ac (VHT40)	SISO	5230	/	/	1	43.323	/	Pass
		5180	SU	/	1	22.972	/	Pass
		5200	SU	/	1	24.028	/	Pass
802.11ax (HEW20)	SISO	5240	SU	/	1	22.802	/	Pass
		5190	SU	/	1	42.755	/	Pass
802.11ax (HEW40)	SISO	5230	SU	/	1	42.777	/	Pass

2.1.3 6dB BW

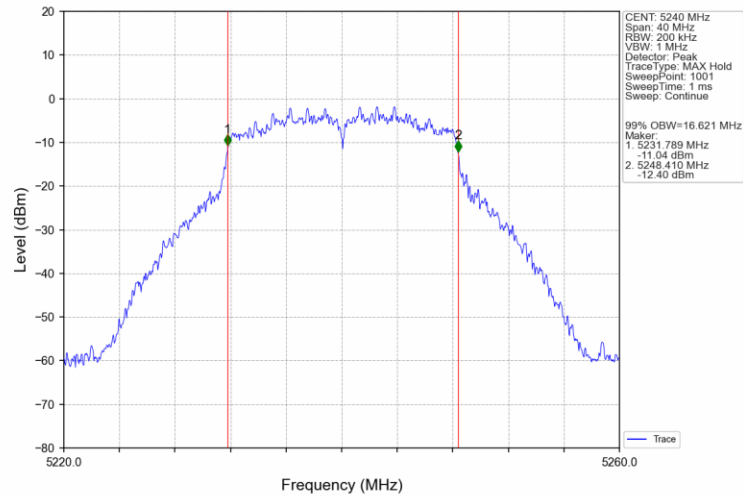
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	15.167	>=0.5	Pass
		5785	/	/	1	14.106	>=0.5	Pass
		5825	/	/	1	15.155	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	15.163	>=0.5	Pass
		5785	/	/	1	15.169	>=0.5	Pass
		5825	/	/	1	15.158	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	35.127	>=0.5	Pass
		5795	/	/	1	35.104	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	15.141	>=0.5	Pass
		5785	/	/	1	15.158	>=0.5	Pass
		5825	/	/	1	15.175	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	35.154	>=0.5	Pass
		5795	/	/	1	33.897	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	16.440	>=0.5	Pass
		5785	SU	/	1	16.431	>=0.5	Pass
		5825	SU	/	1	16.402	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	35.220	>=0.5	Pass
		5795	SU	/	1	35.152	>=0.5	Pass

2.2 Test Graph

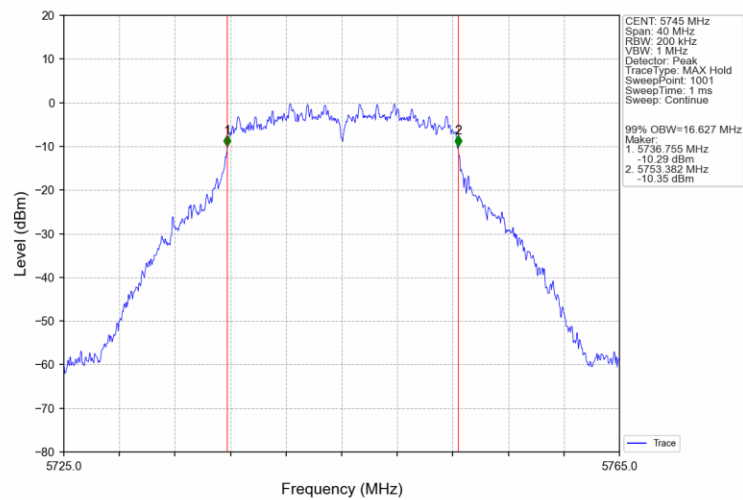
2.2.1 OBW



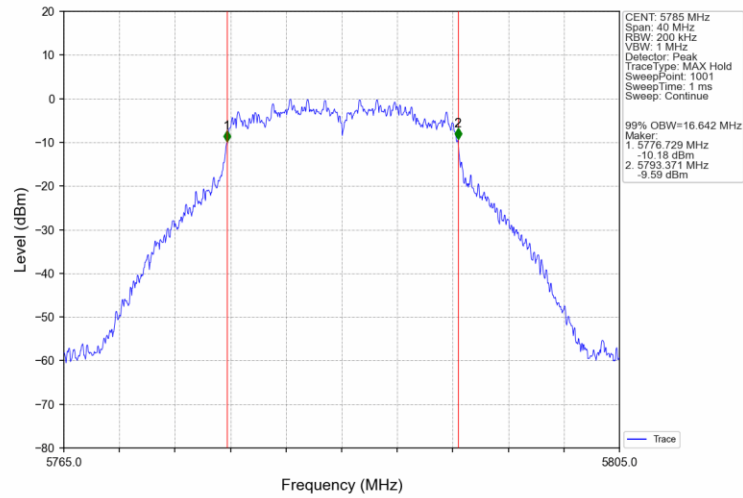
802.11a_HCH_5240MHz_Ant1_NTNV



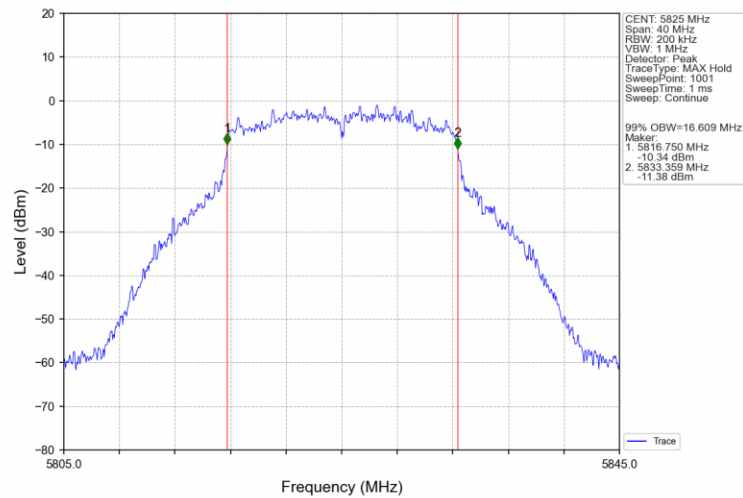
802.11a_LCH_5745MHz_Ant1_NTNV



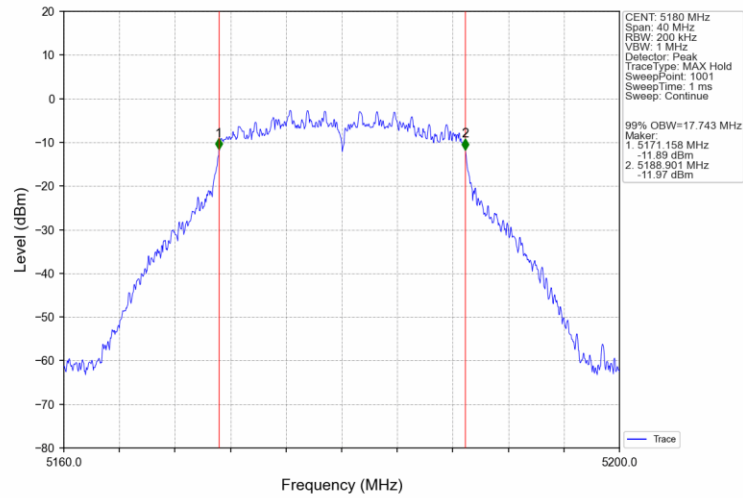
802.11a_MCH_5785MHz_Ant1_NTNV



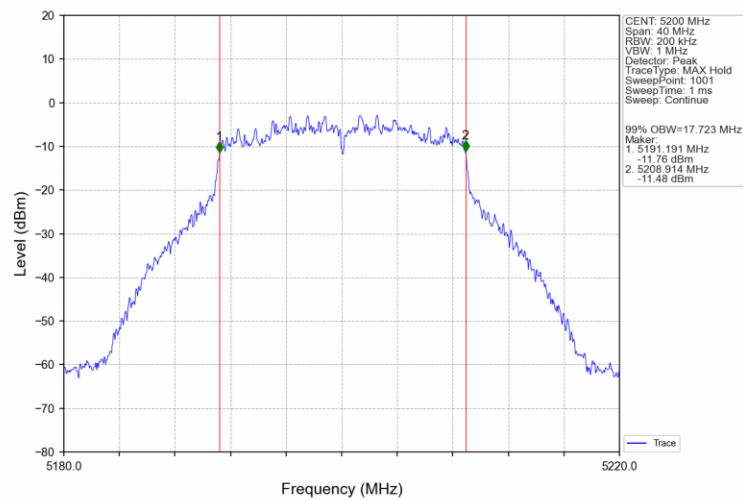
802.11a_HCH_5825MHz_Ant1_NTNV



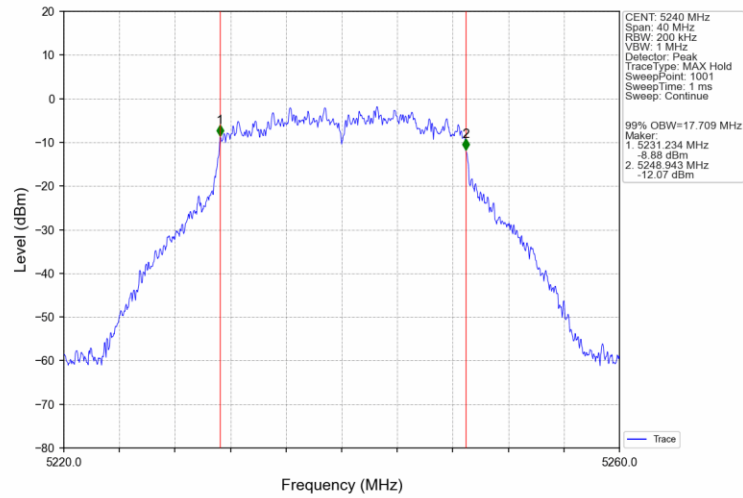
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



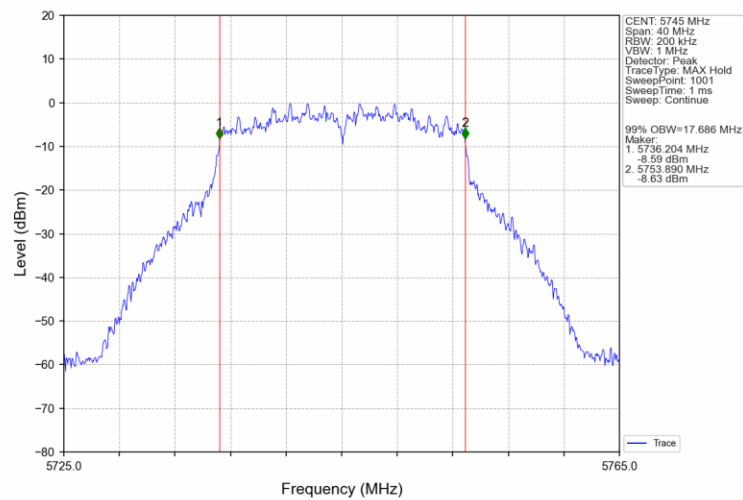
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



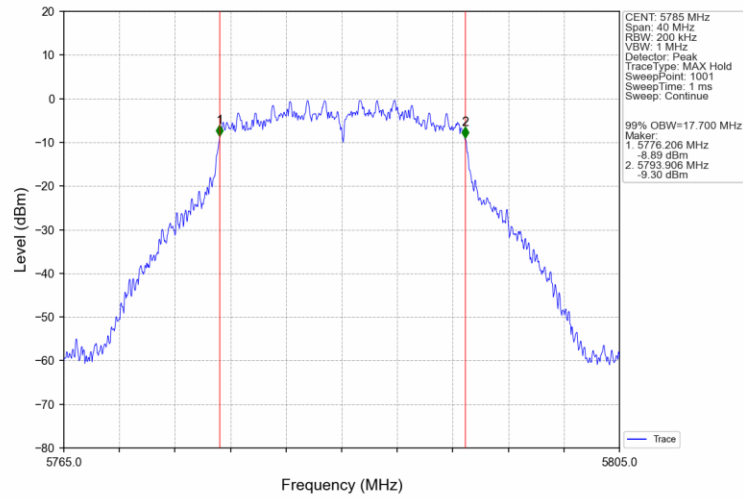
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



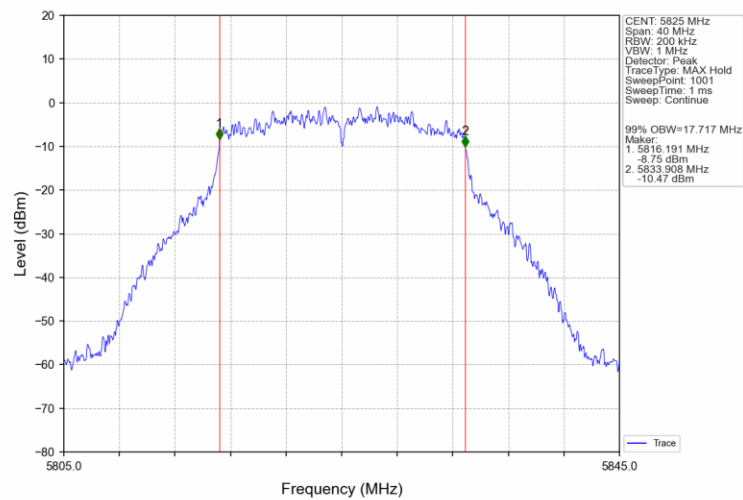
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



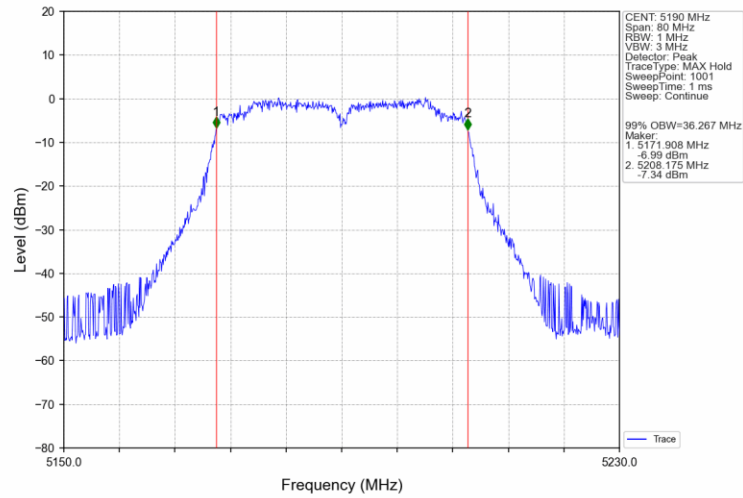
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



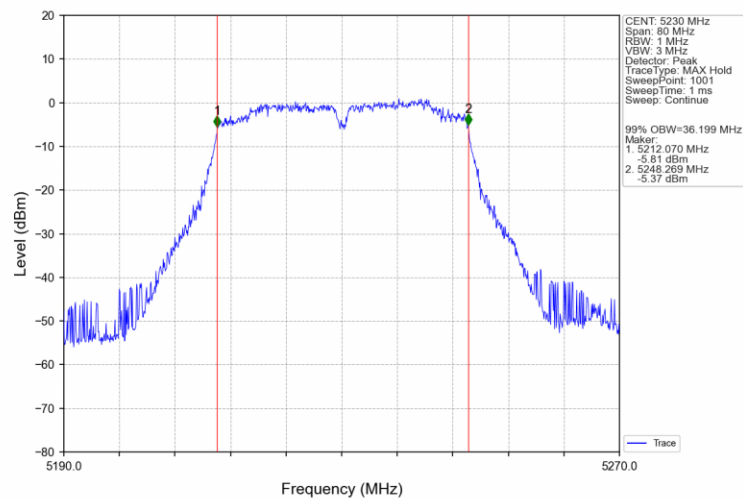
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



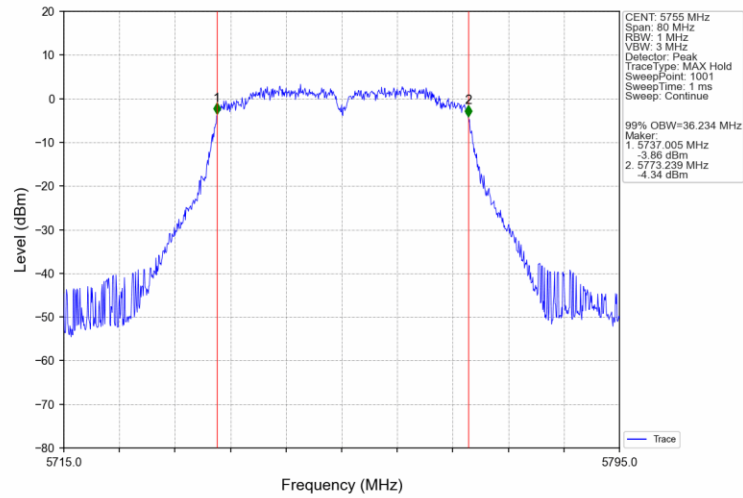
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



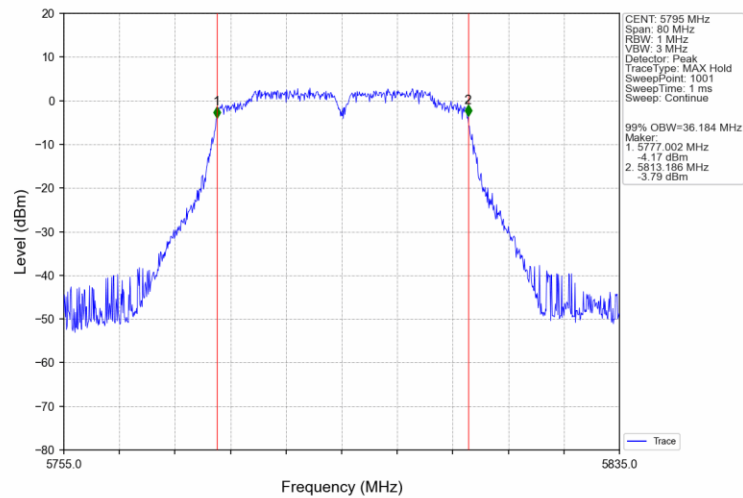
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



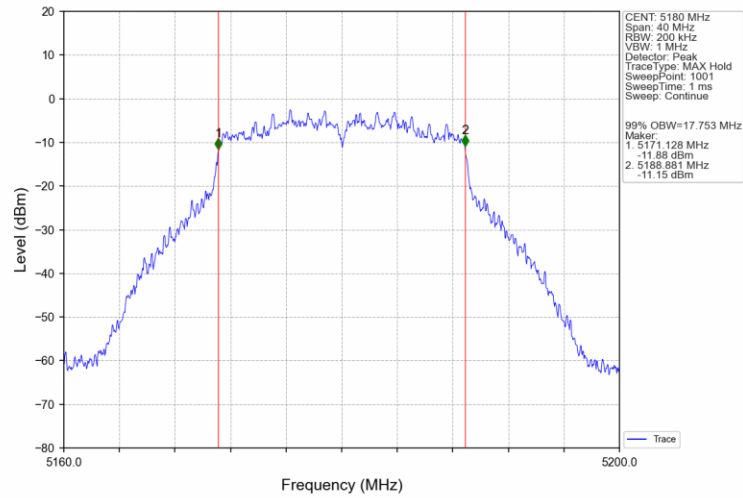
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



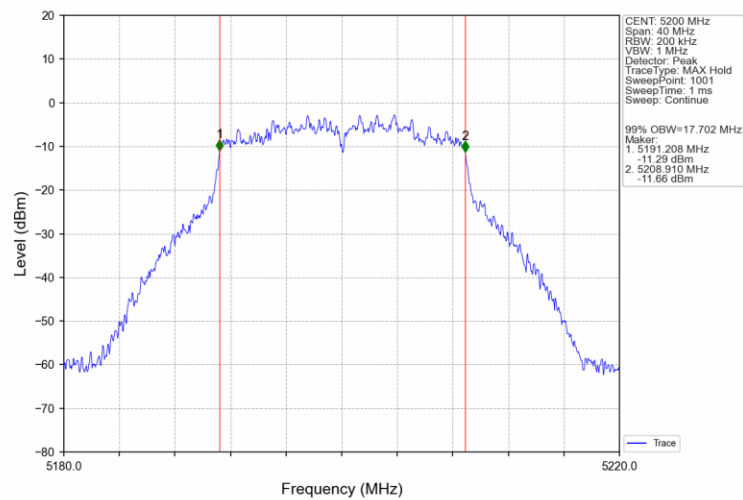
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



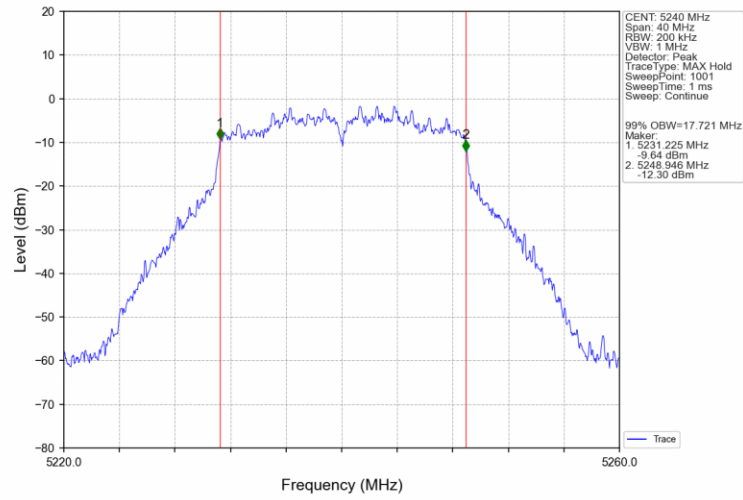
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



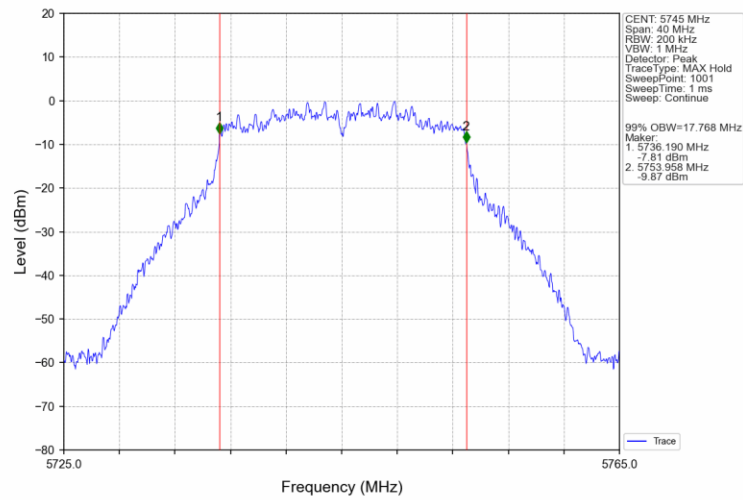
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



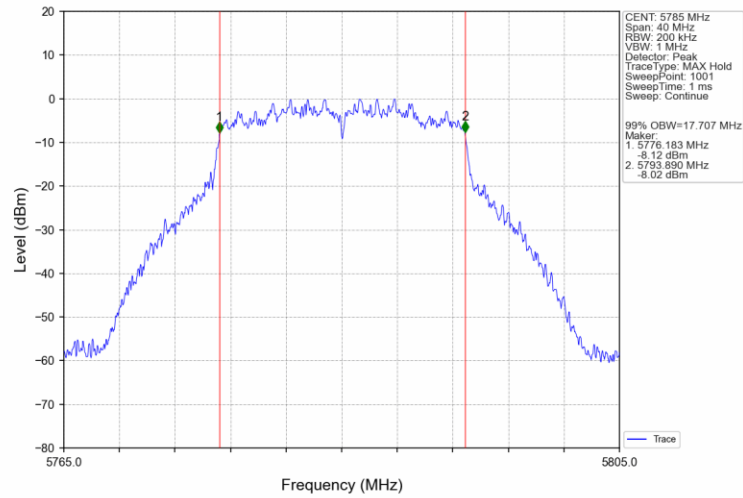
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



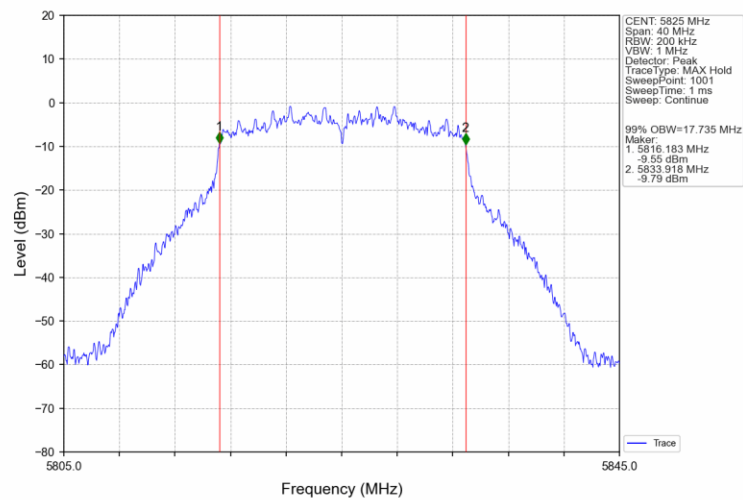
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



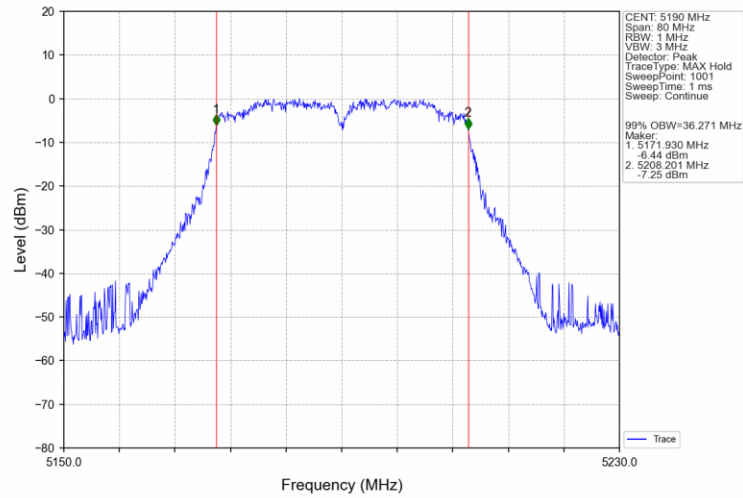
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



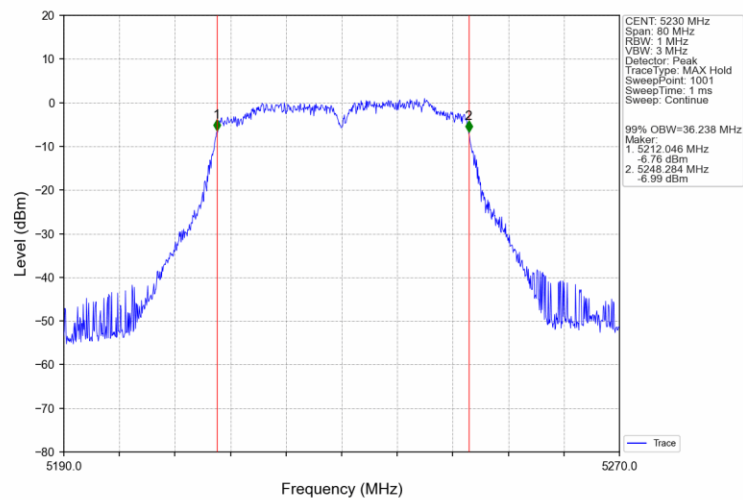
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



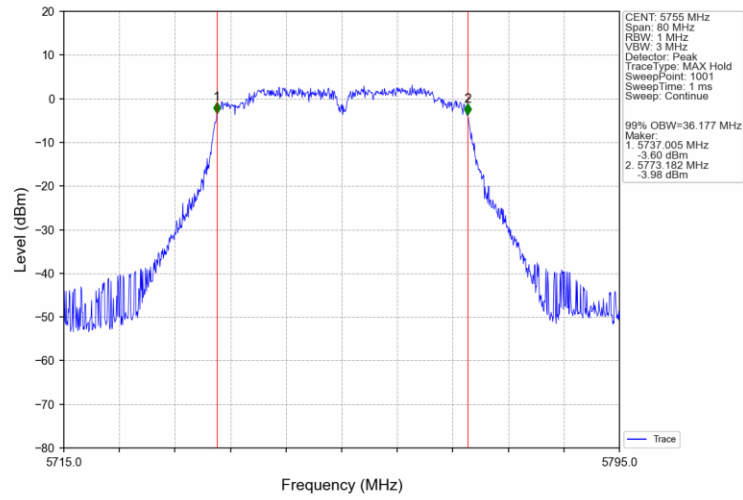
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



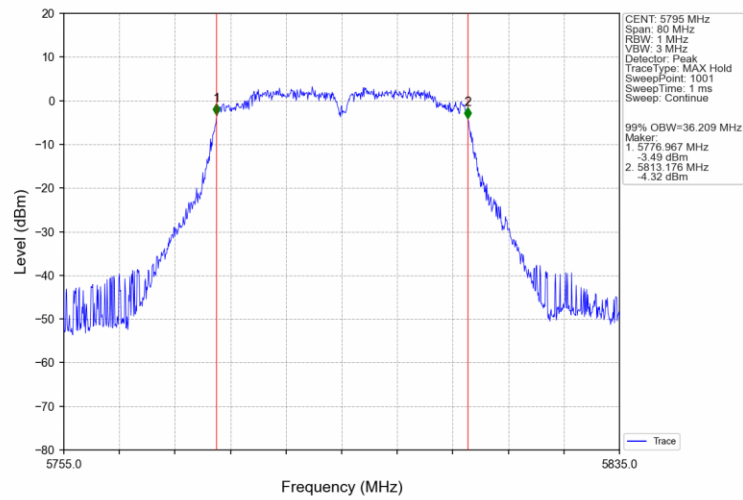
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



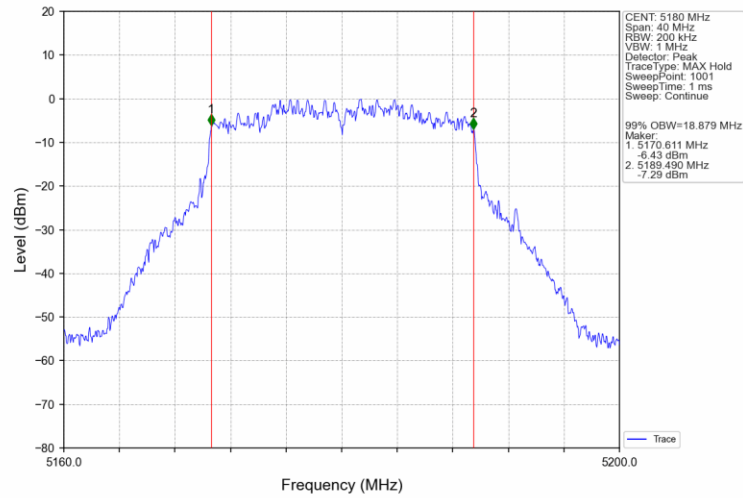
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



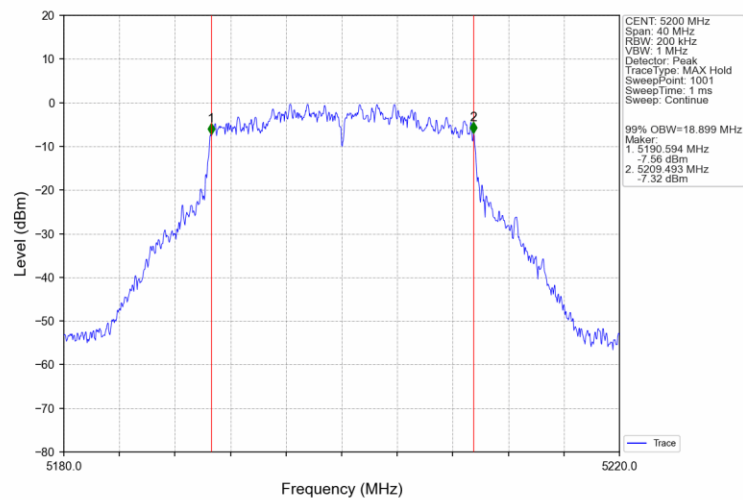
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



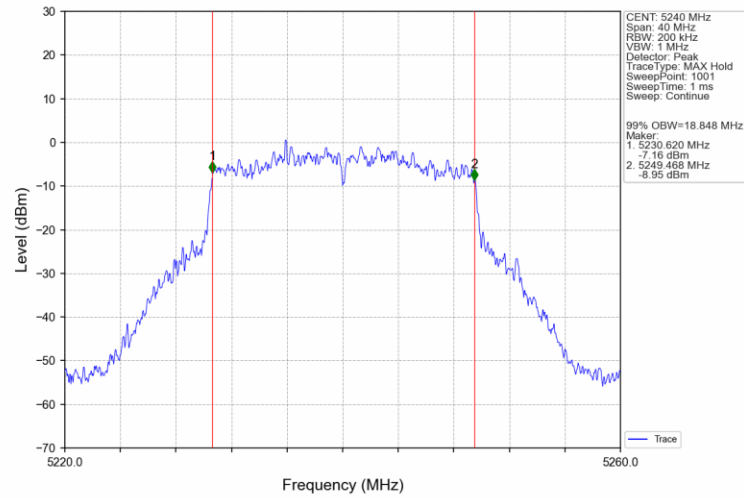
802.11ax(HEW20)_LCH_5180MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_MCH_5200MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_LCH_5745MHz_SU_/_Ant1_NTNV

