

Appendix RF test data for WIFI5G

1. Duty Cycle

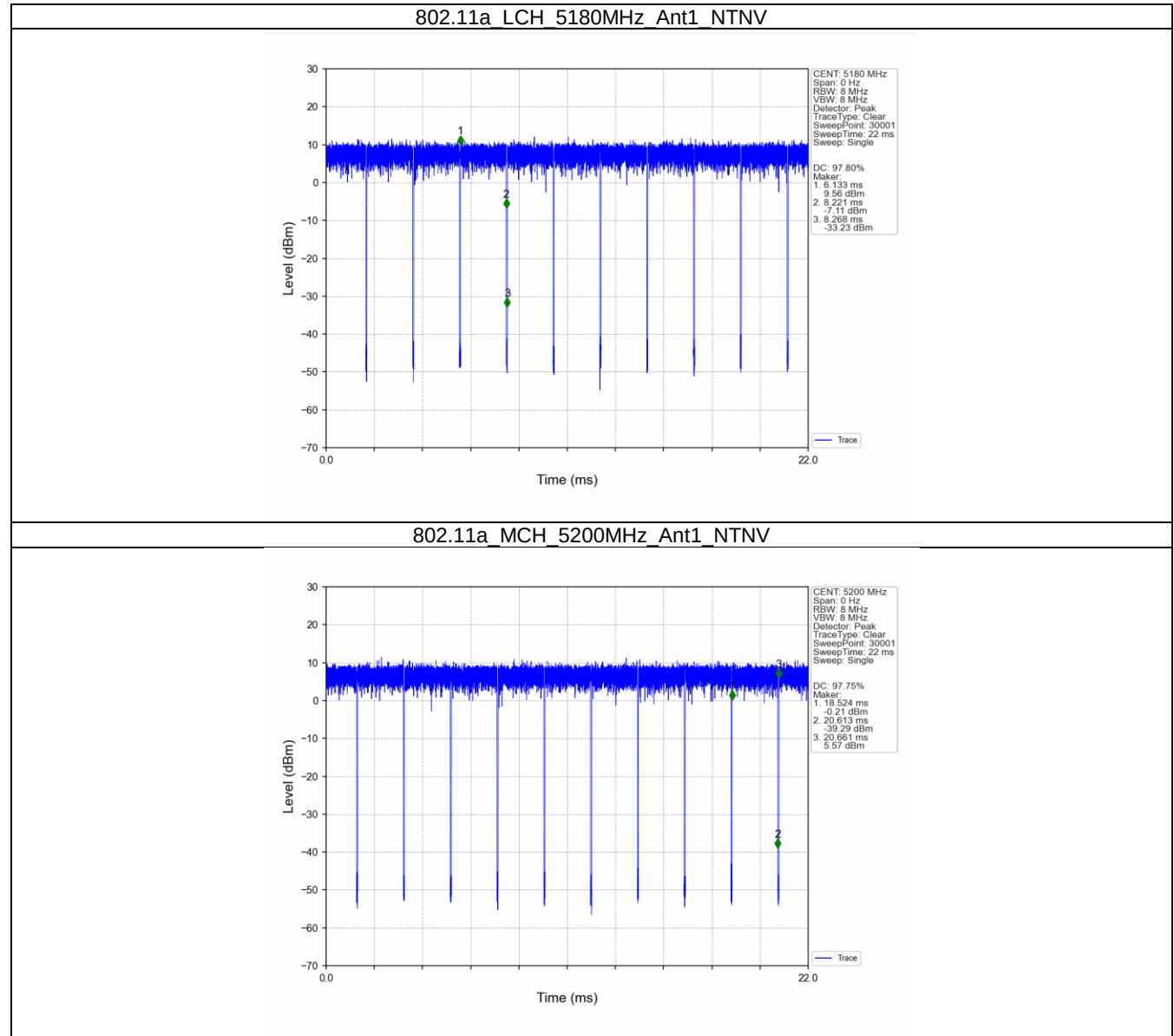
1.1 Test Result

1.1.1 Ant1

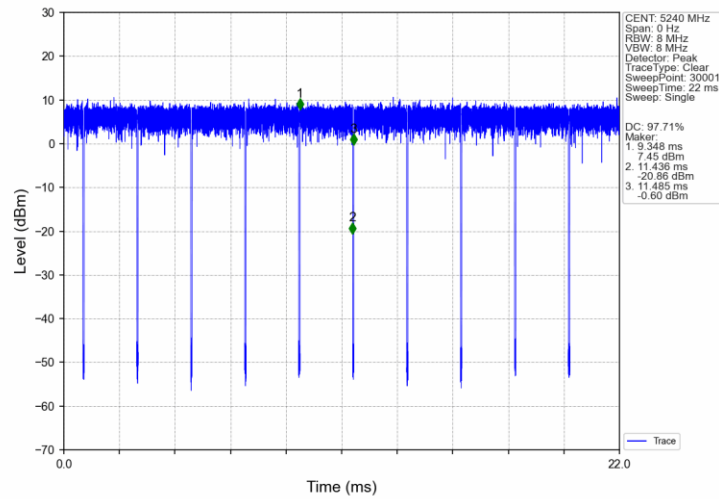
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.088	2.135	97.80	0.10	0.03
		5200	2.089	2.137	97.75	0.10	0.10
		5240	2.088	2.137	97.71	0.10	0.14
		5745	2.089	2.137	97.75	0.10	0.07
		5785	2.089	2.136	97.80	0.10	0.10
		5825	2.089	2.138	97.71	0.10	0.10
802.11n (HT20)	MIMO	5180	3.980	4.028	98.81	0.05	0.07
		5200	3.981	4.028	98.83	0.05	0.03
		5240	3.980	4.028	98.81	0.05	0.07
		5745	3.980	4.029	98.78	0.05	0.07
		5785	3.980	4.029	98.78	0.05	0.10
		5825	3.980	4.028	98.81	0.05	0.07
802.11n (HT40)	MIMO	5190	3.981	4.028	98.83	0.05	0.04
		5230	3.981	4.029	98.81	0.05	0.03
		5755	3.980	4.028	98.81	0.05	0.07
		5795	3.980	4.029	98.78	0.05	0.07
802.11ac (VHT20)	MIMO	5180	3.957	4.006	98.78	0.05	0.07
		5200	3.956	4.005	98.78	0.05	0.07
		5240	3.957	4.006	98.78	0.05	0.07
		5745	3.956	4.004	98.80	0.05	0.03
		5785	3.957	4.004	98.83	0.05	0.03
		5825	3.956	4.004	98.80	0.05	0.03
802.11ac (VHT40)	MIMO	5190	3.957	4.004	98.83	0.05	0.07
		5230	3.957	4.004	98.83	0.05	0.07
		5755	3.956	4.004	98.80	0.05	0.03
		5795	3.957	4.005	98.80	0.05	0.07
802.11ac (VHT80)	MIMO	5210	3.969	4.016	98.83	0.05	0.07
		5775	3.969	4.018	98.78	0.05	0.10

1.2 Test Graph

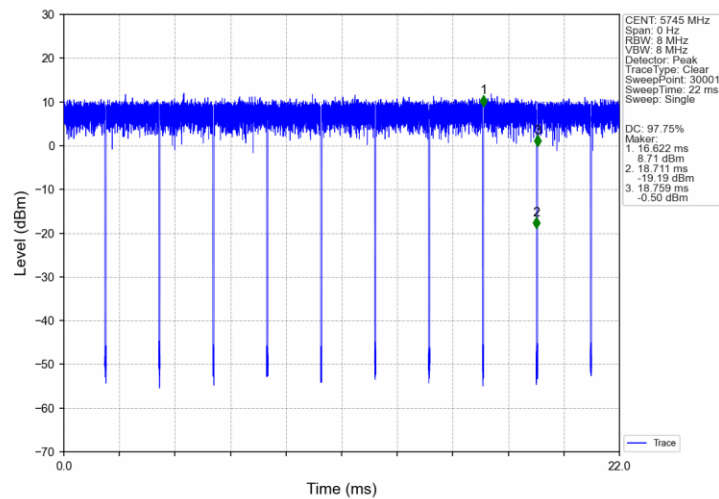
1.2.1 Ant1



802.11a_HCH_5240MHz_Ant1_NTNV

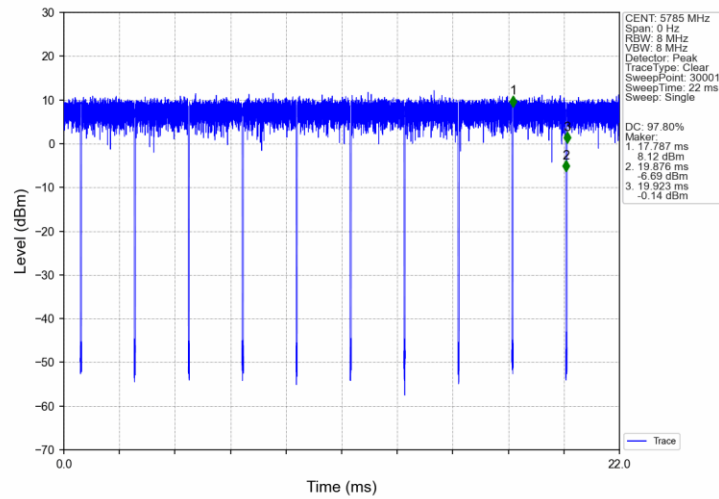


802.11a_LCH_5745MHz_Ant1_NTNV

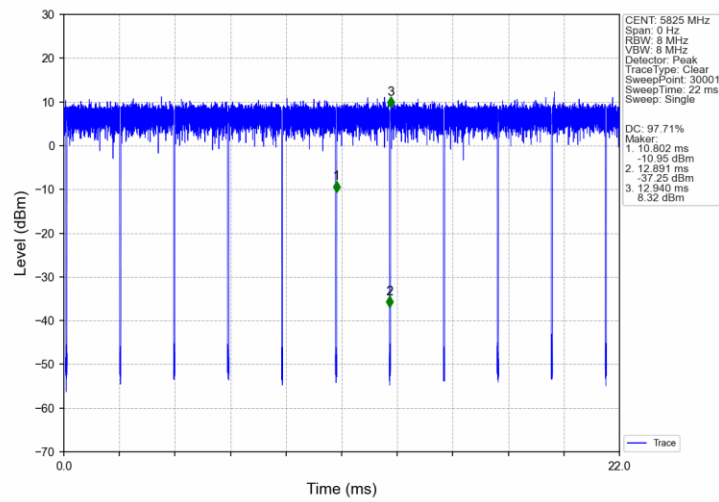




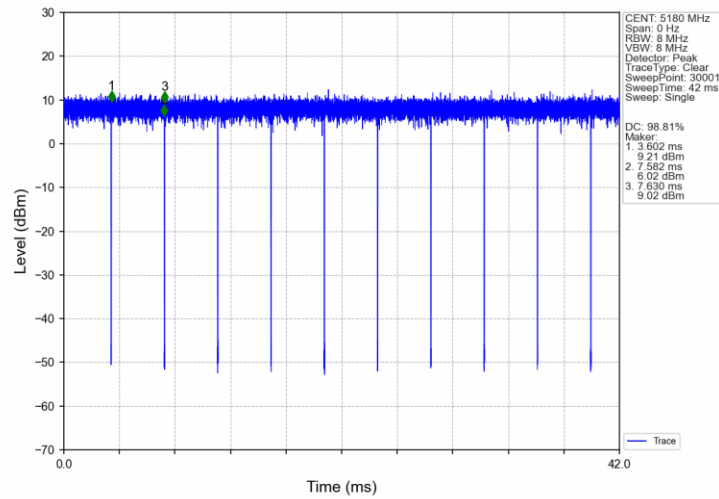
802.11a_MCH_5785MHz_Ant1_NTNV



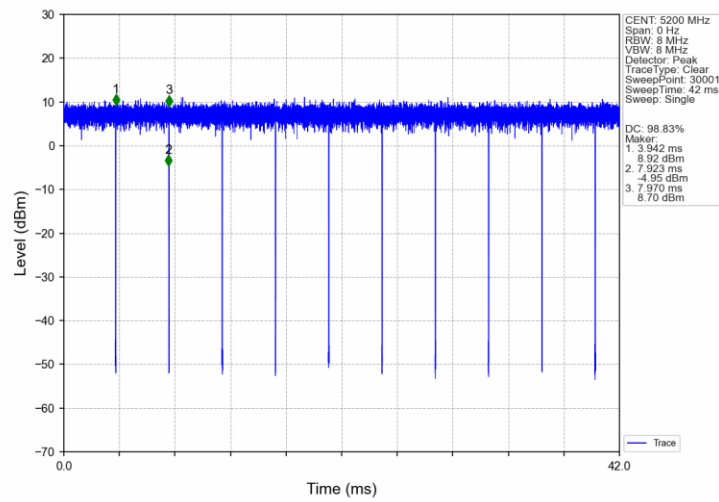
802.11a_HCH_5825MHz_Ant1_NTNV



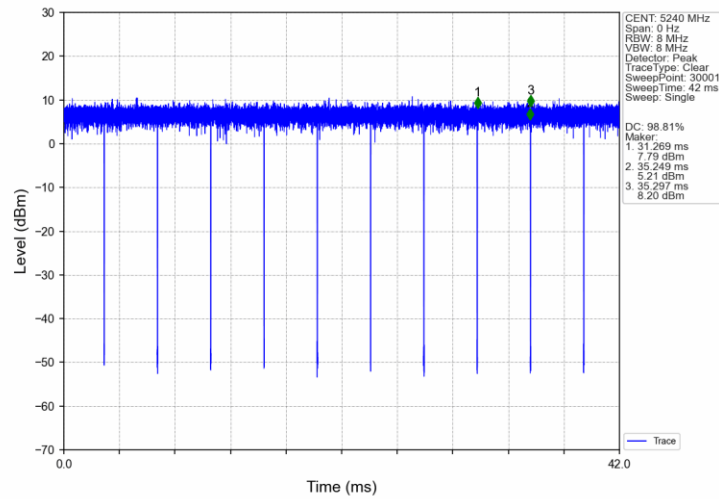
802.11n(HT20) LCH 5180MHz Ant1 NTN



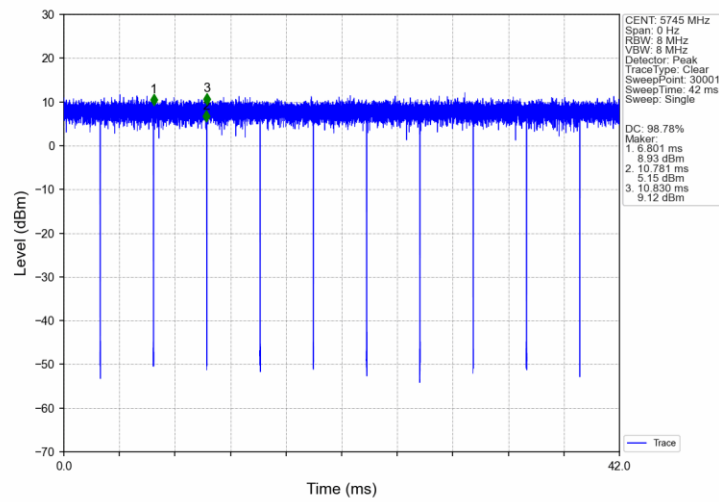
802.11n(HT20) MCH 5200MHz Ant1 NTN



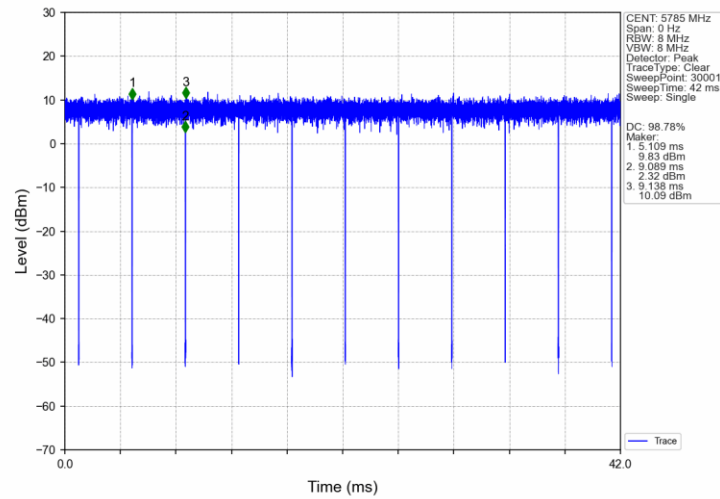
802.11n(HT20) HCH 5240MHz Ant1 NTN



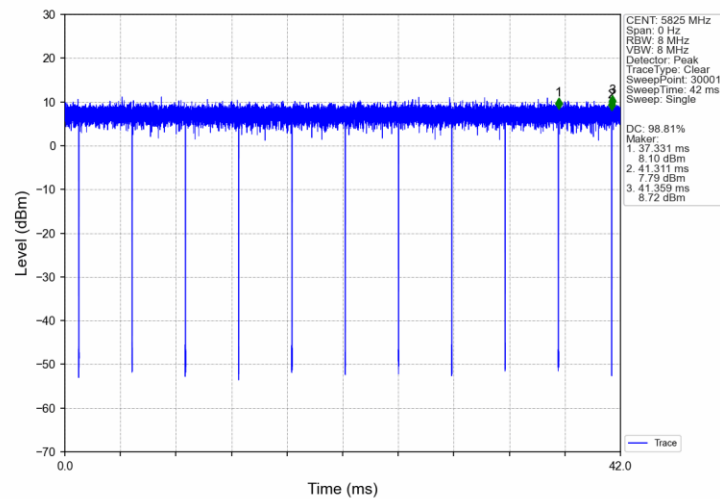
802.11n(HT20) LCH 5745MHz Ant1 NTN



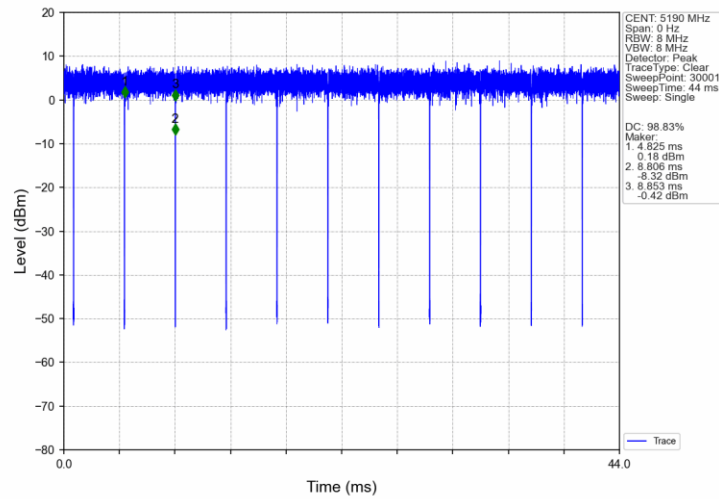
802.11n(HT20) MCH 5785MHz Ant1 NTV



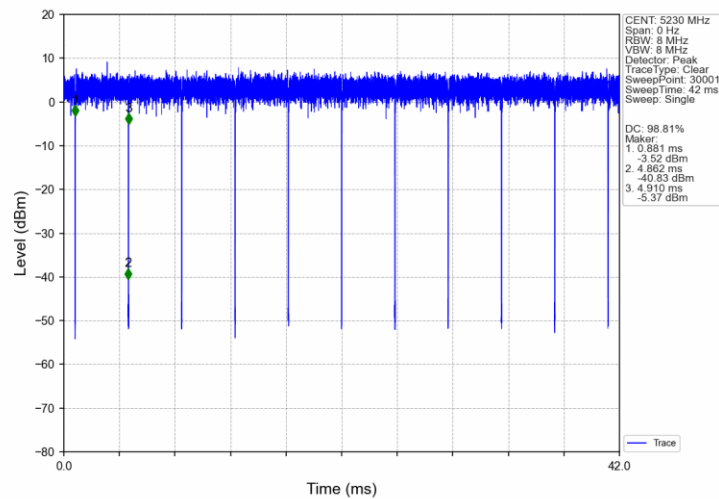
802.11n(HT20) HCH 5825MHz Ant1 NTV



802.11n(HT40) LCH 5190MHz Ant1 NTN

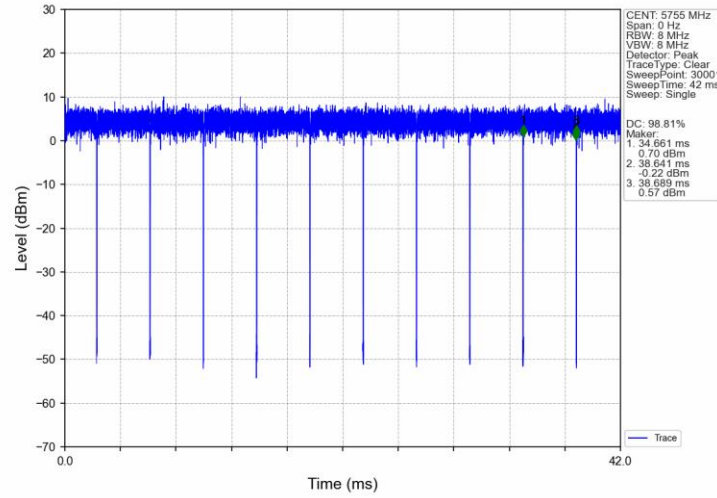


802.11n(HT40) HCH 5230MHz Ant1 NTN

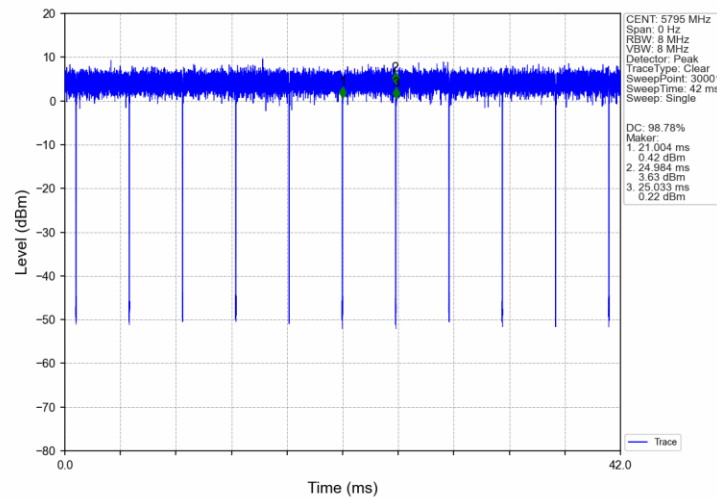




802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

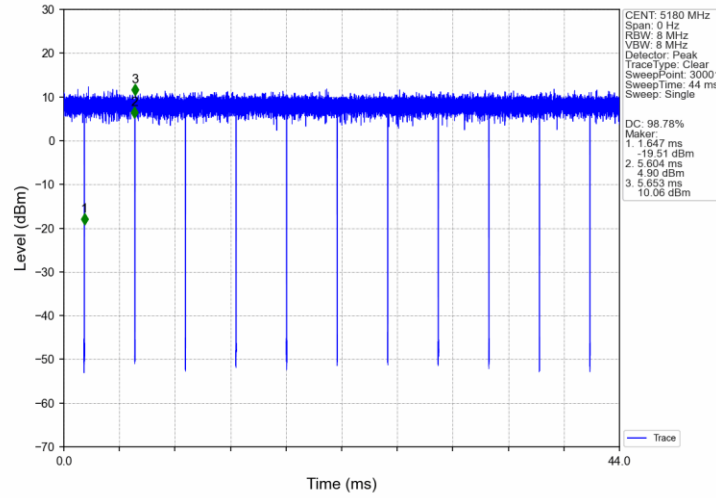


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

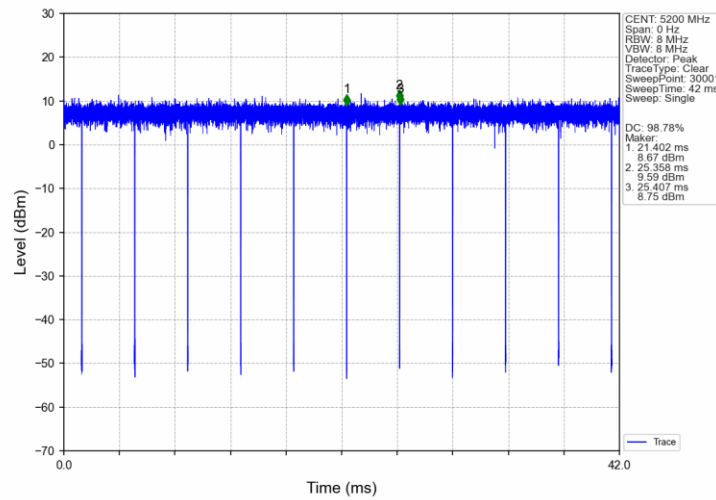




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

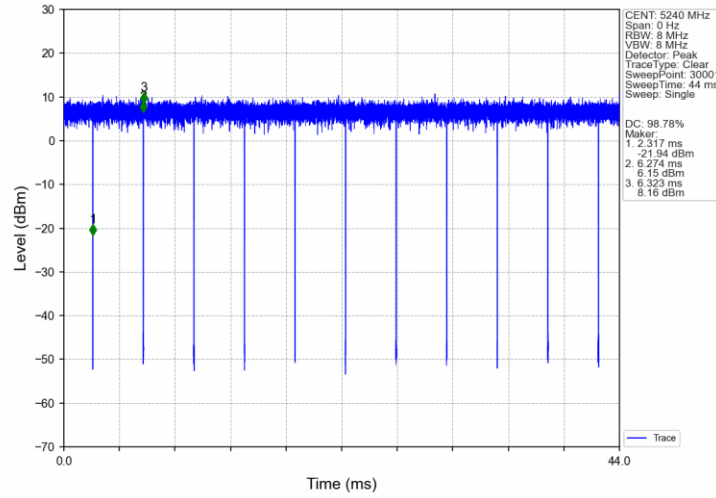


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

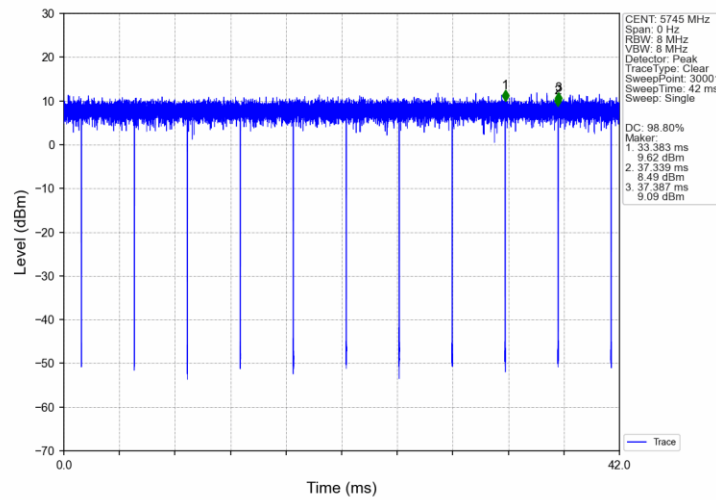




802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

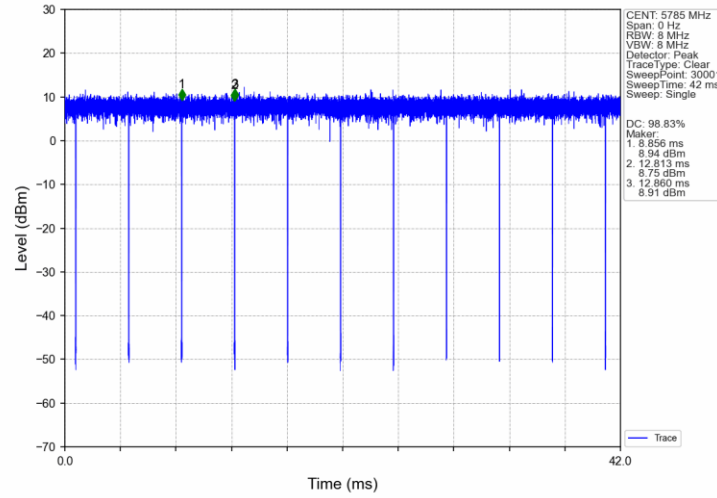


802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

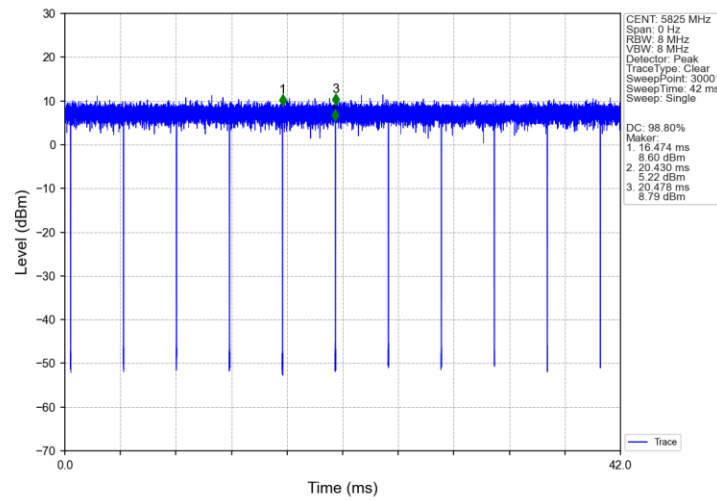




802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

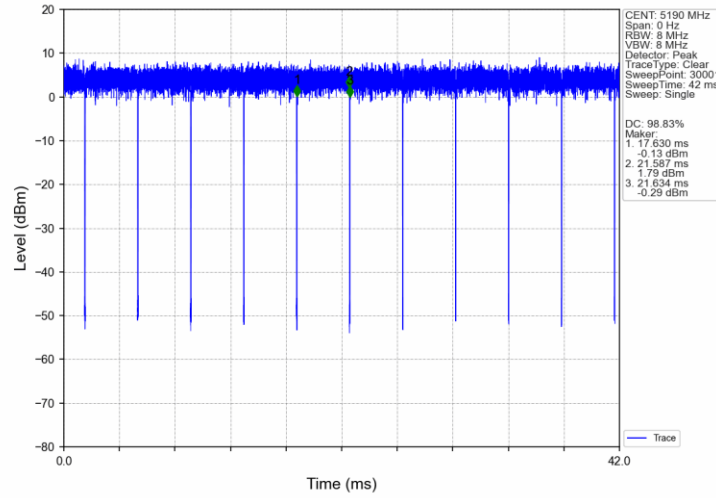


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

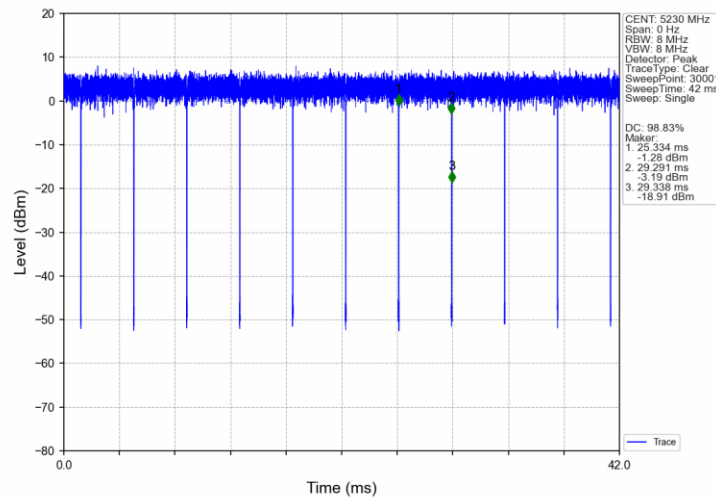




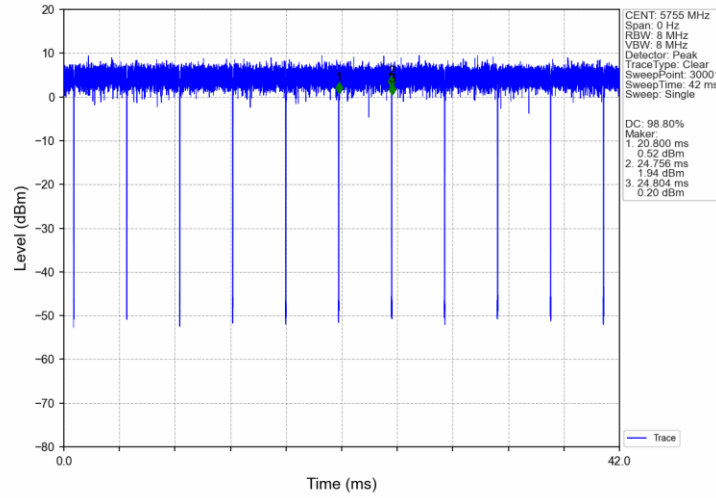
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



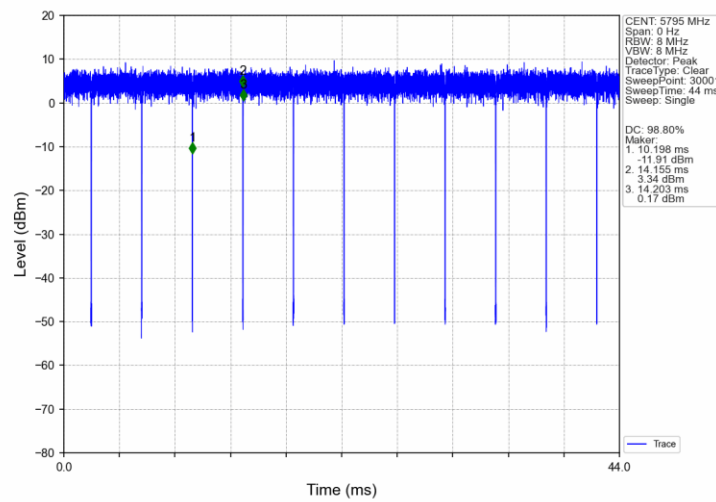
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

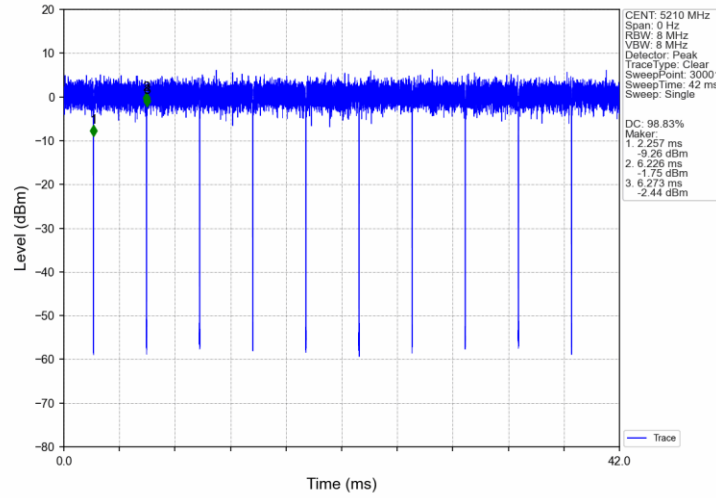


802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

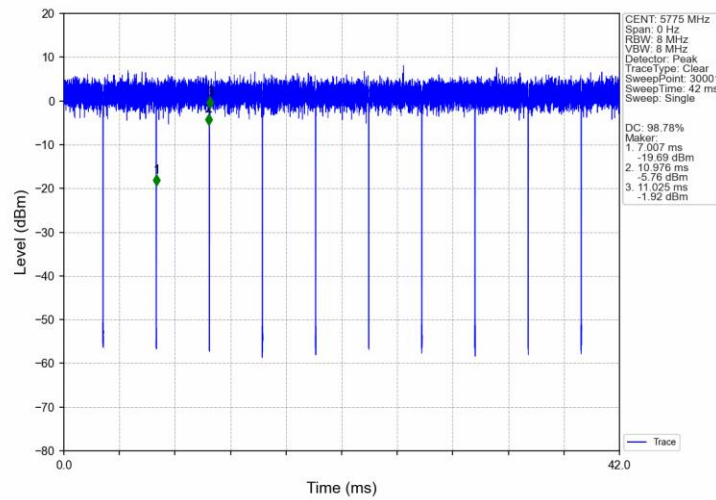




802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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	5180	1	17.289	/	Pass
		5200	1	17.242	/	Pass
		5240	1	17.324	/	Pass
		5745	1	17.217	/	Pass
		5785	1	17.246	/	Pass
		5825	1	17.313	/	Pass
802.11n (HT20)	MIMO	5180	1	18.247	/	Pass
		5200	1	18.215	/	Pass
		5240	1	18.223	/	Pass
		5745	1	18.172	/	Pass
		5785	1	18.281	/	Pass
		5825	1	18.231	/	Pass
802.11n (HT40)	MIMO	5190	1	36.292	/	Pass
		5230	1	36.381	/	Pass
		5755	1	36.298	/	Pass
		5795	1	36.380	/	Pass
802.11ac (VHT20)	MIMO	5180	1	18.197	/	Pass
		5200	1	18.285	/	Pass
		5240	1	18.287	/	Pass
		5745	1	18.253	/	Pass
		5785	1	18.277	/	Pass
		5825	1	18.313	/	Pass
802.11ac (VHT40)	MIMO	5190	1	36.343	/	Pass
		5230	1	36.381	/	Pass
		5755	1	36.208	/	Pass
		5795	1	36.379	/	Pass
802.11ac (VHT80)	MIMO	5210	1	76.016	/	Pass
		5775	1	75.526	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	23.425	/	Pass
		5200	1	23.380	/	Pass
		5240	1	23.632	/	Pass
802.11n (HT20)	MIMO	5180	1	24.986	/	Pass
		5200	1	24.461	/	Pass
		5240	1	24.676	/	Pass
802.11n (HT40)	MIMO	5190	1	42.661	/	Pass
		5230	1	44.158	/	Pass
802.11ac (VHT20)	MIMO	5180	1	24.184	/	Pass
		5200	1	24.624	/	Pass
		5240	1	24.304	/	Pass
802.11ac (VHT40)	MIMO	5190	1	43.831	/	Pass
		5230	1	43.023	/	Pass



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802.11ac (VHT80)	MIMO	5210	1	83.957	/	Pass
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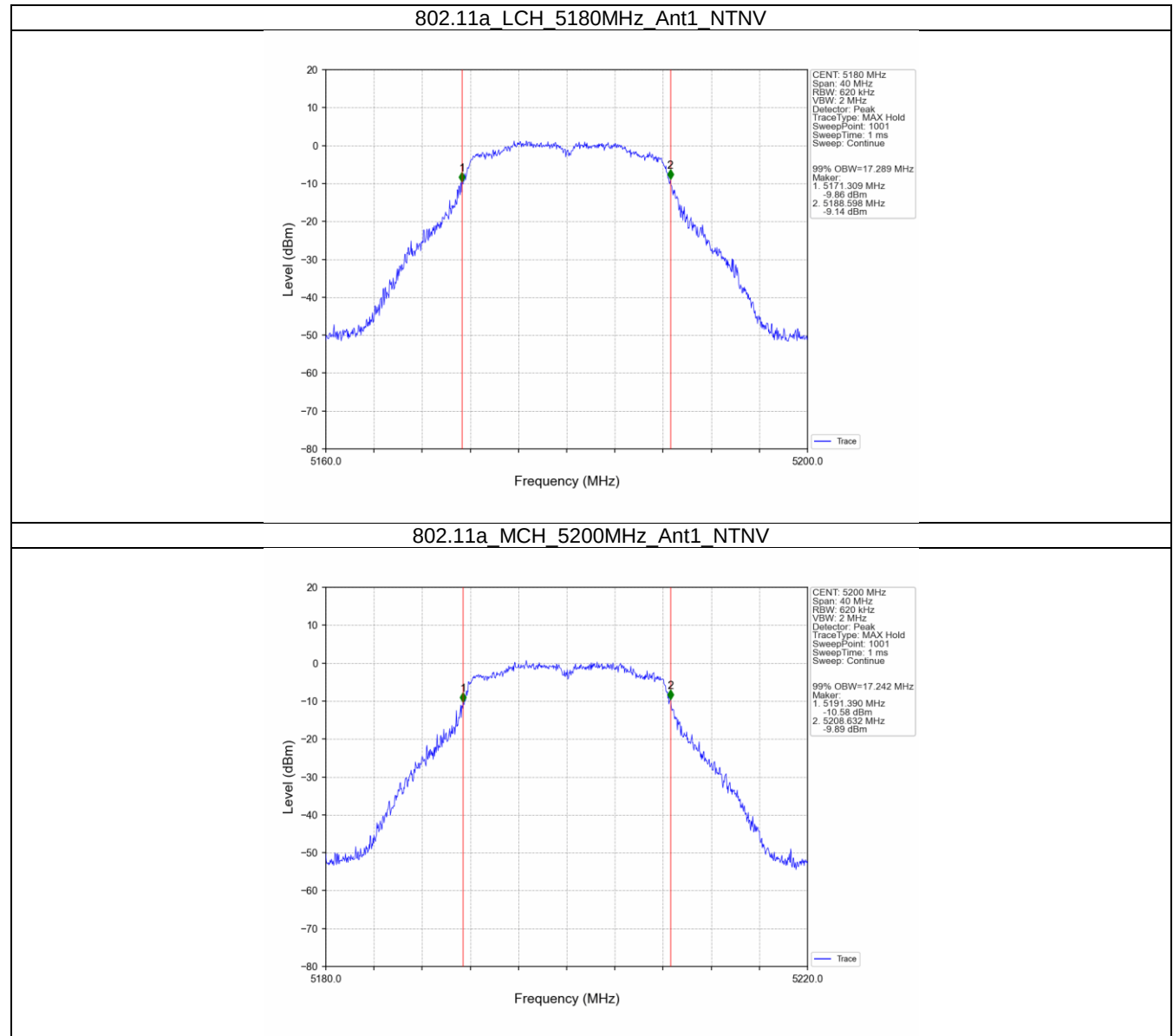
2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.325	≥ 0.5	Pass
		5785	1	14.079	≥ 0.5	Pass
		5825	1	15.018	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	12.963	≥ 0.5	Pass
		5785	1	13.995	≥ 0.5	Pass
		5825	1	11.640	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	30.929	≥ 0.5	Pass
		5795	1	31.362	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	15.076	≥ 0.5	Pass
		5785	1	12.931	≥ 0.5	Pass
		5825	1	13.711	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	28.842	≥ 0.5	Pass
		5795	1	30.109	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	66.229	≥ 0.5	Pass

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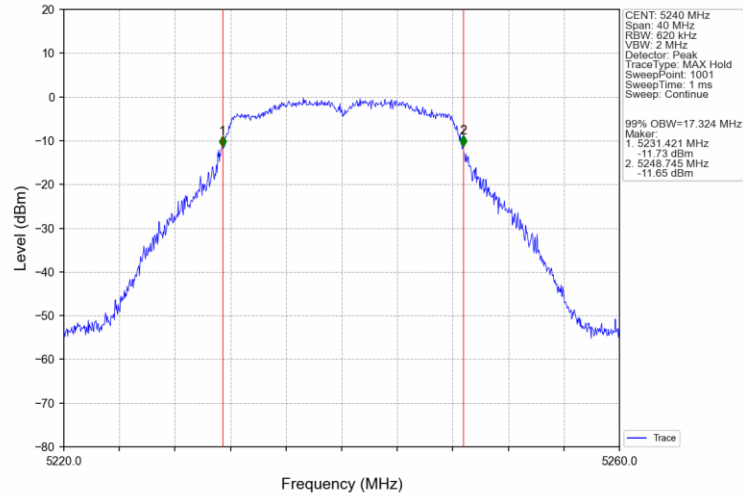
2.2 Test Graph

2.2.1 OBW

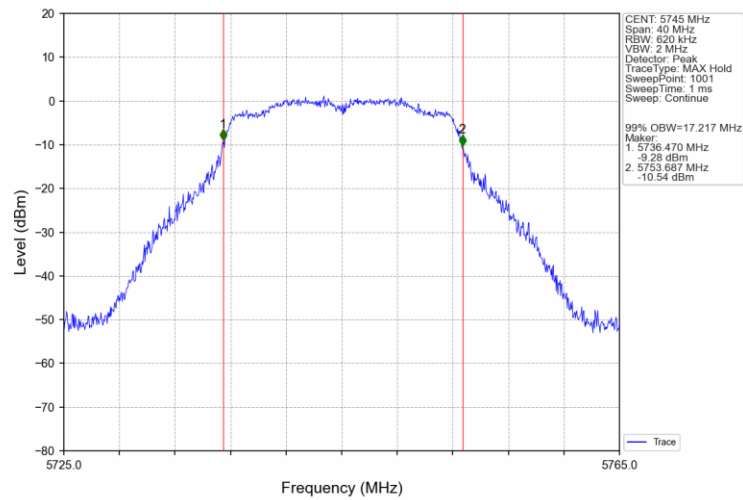


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802.11a_HCH_5240MHz_Ant1_NTNV

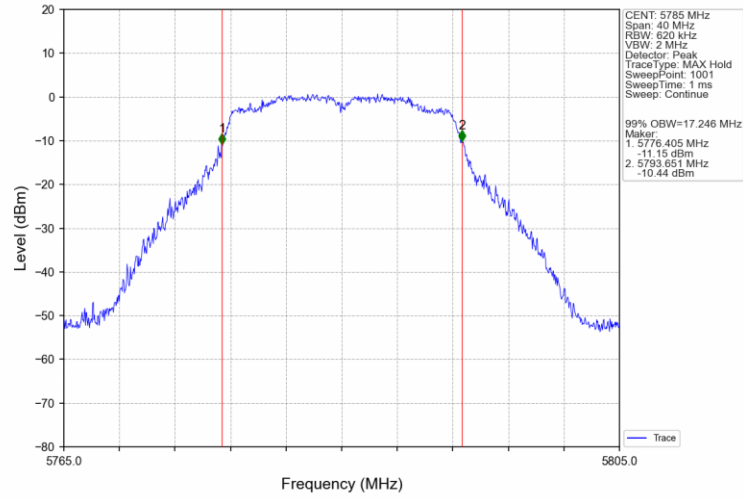


802.11a_LCH_5745MHz_Ant1_NTNV

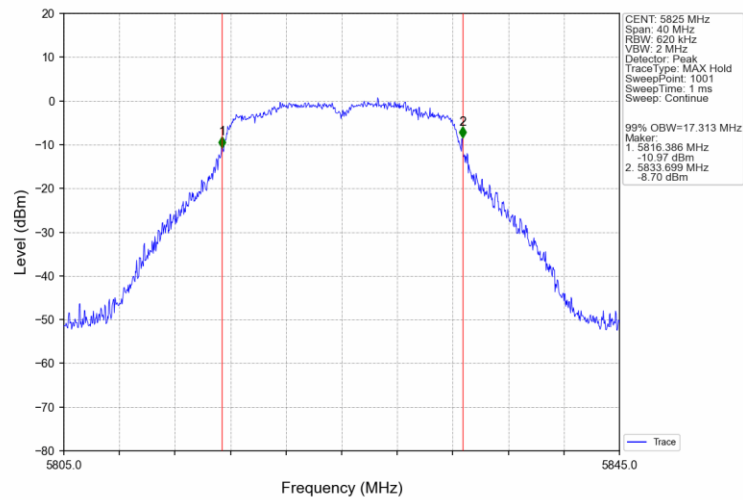




802.11a_MCH_5785MHz_Ant1_NTNV



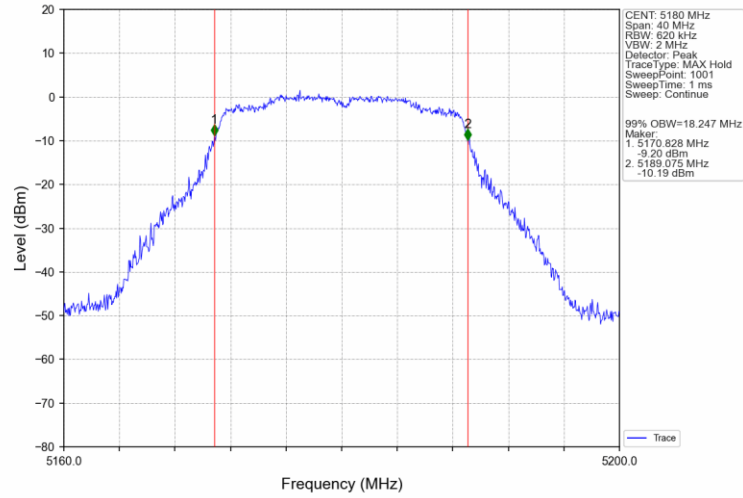
802.11a_HCH_5825MHz_Ant1_NTNV



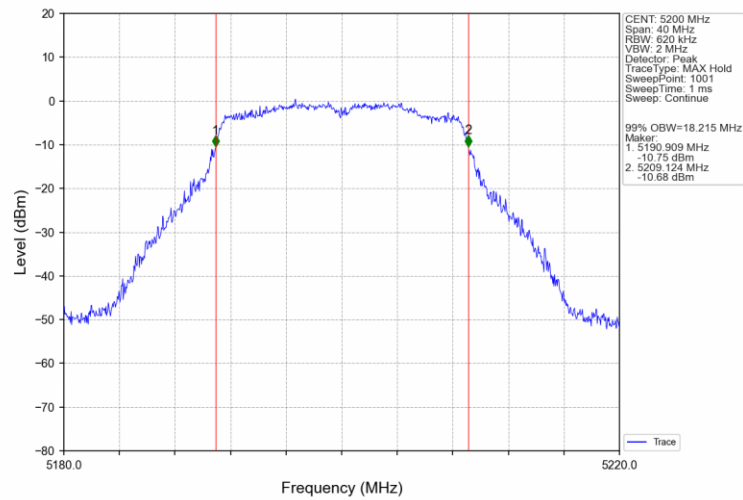


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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



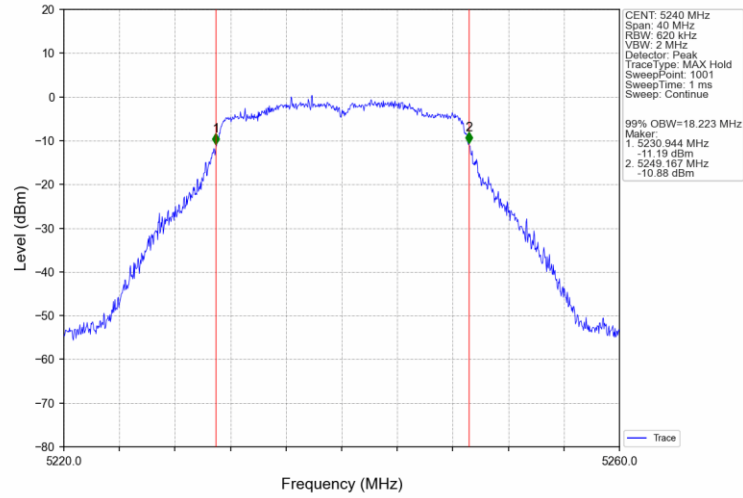
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



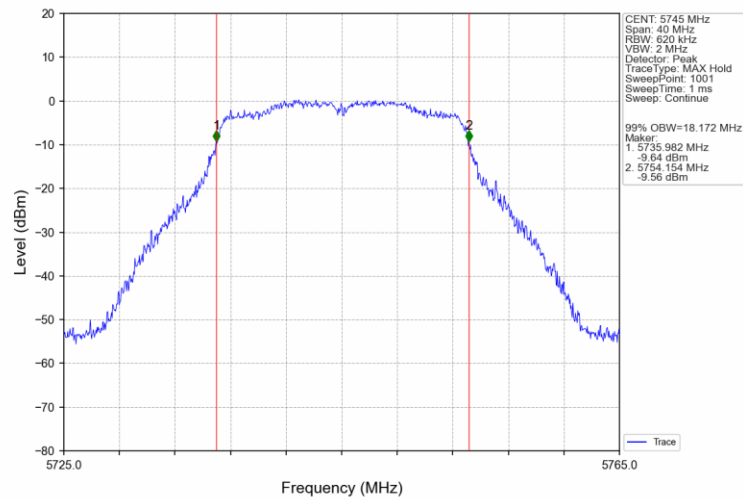


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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

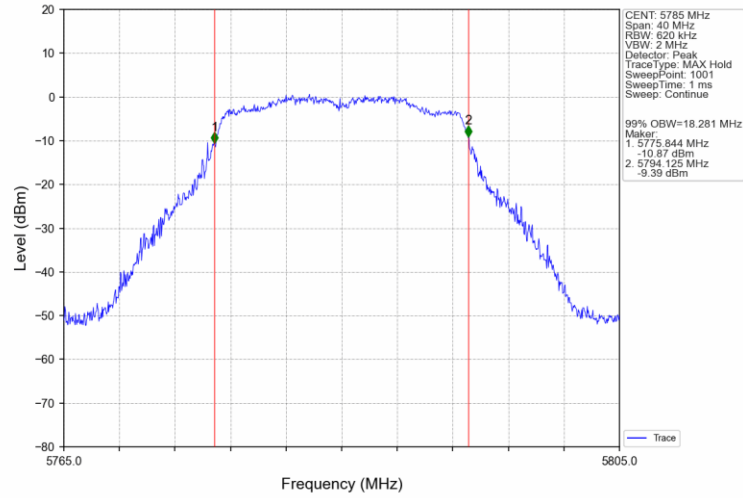


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

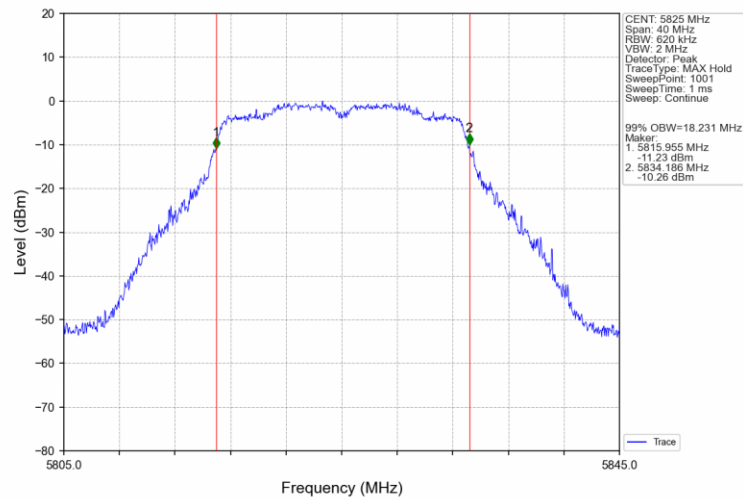




802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



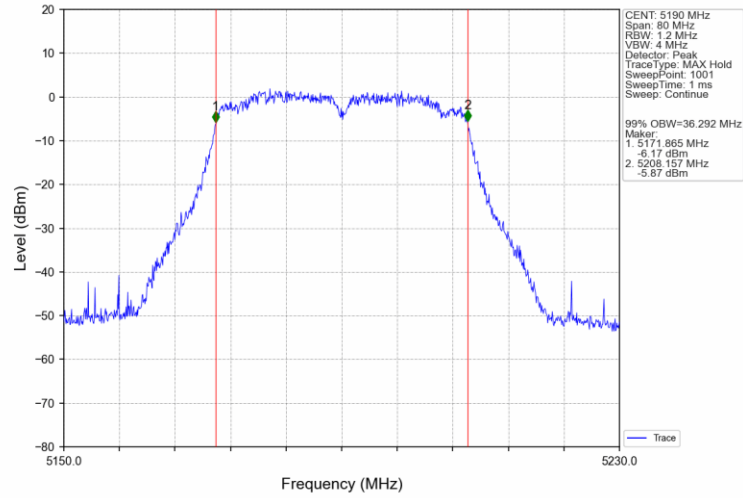
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



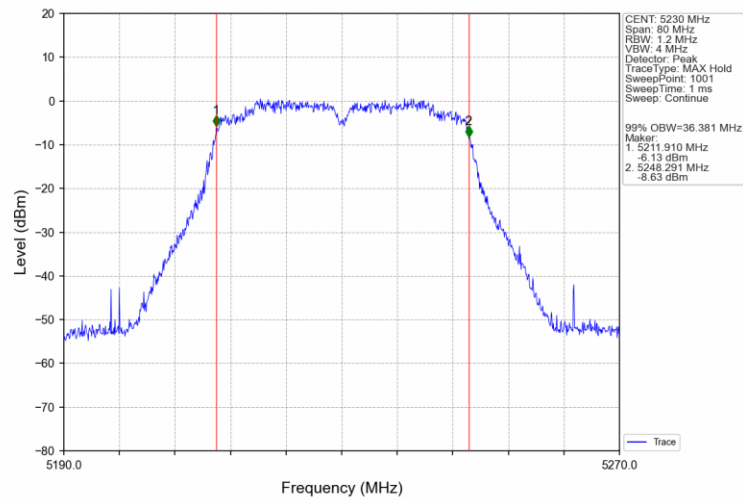


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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



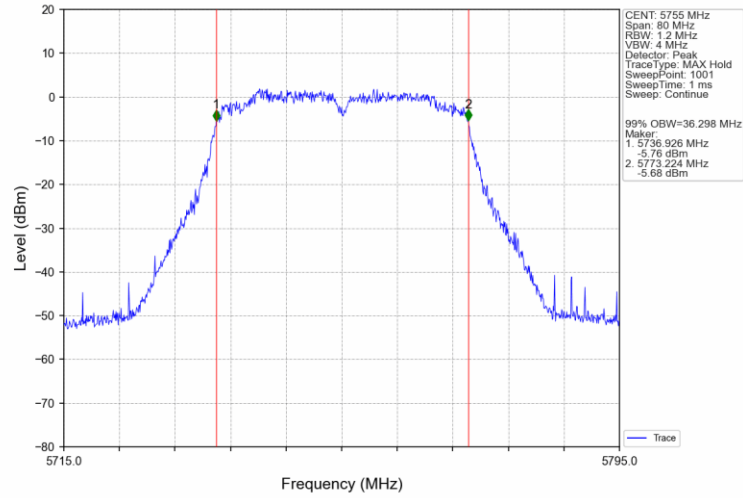
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



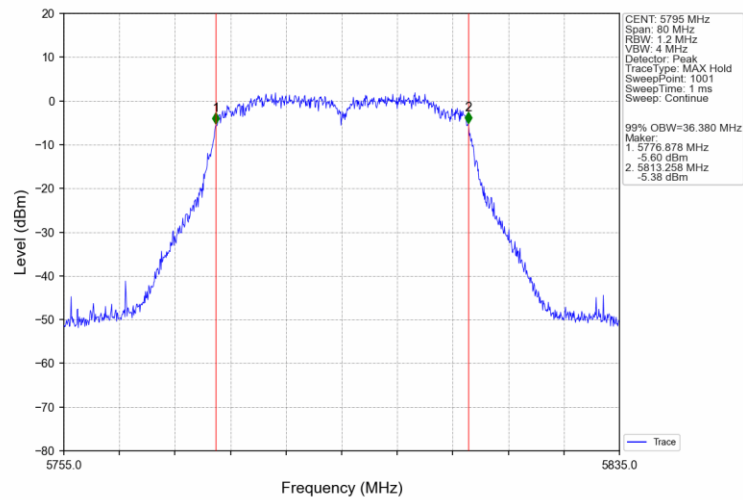


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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

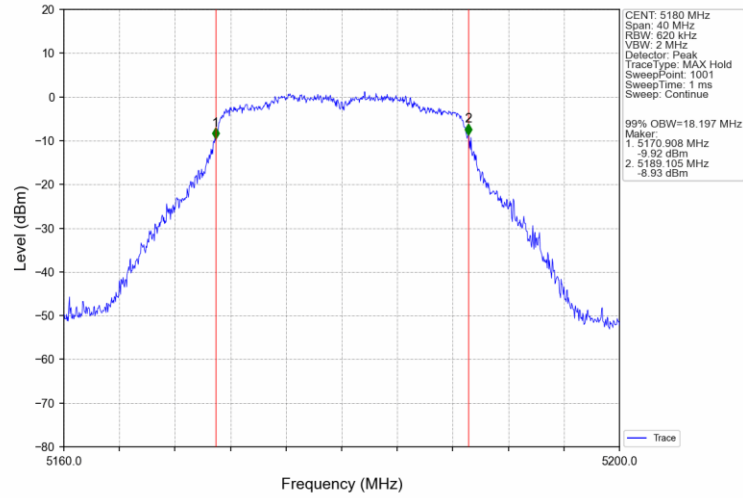


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

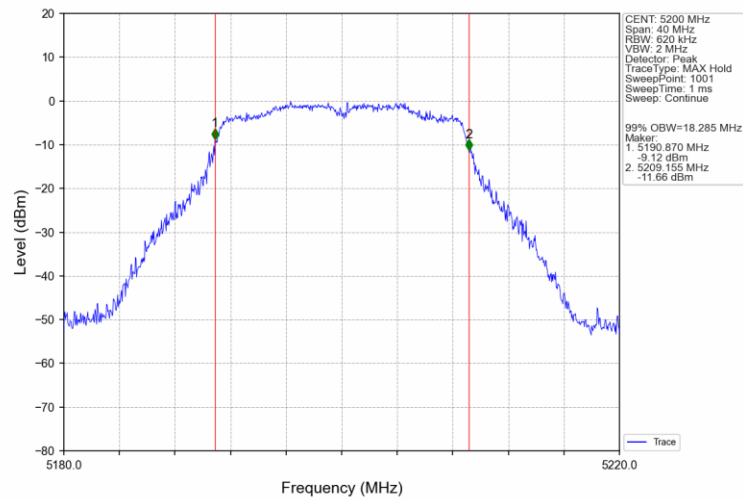




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

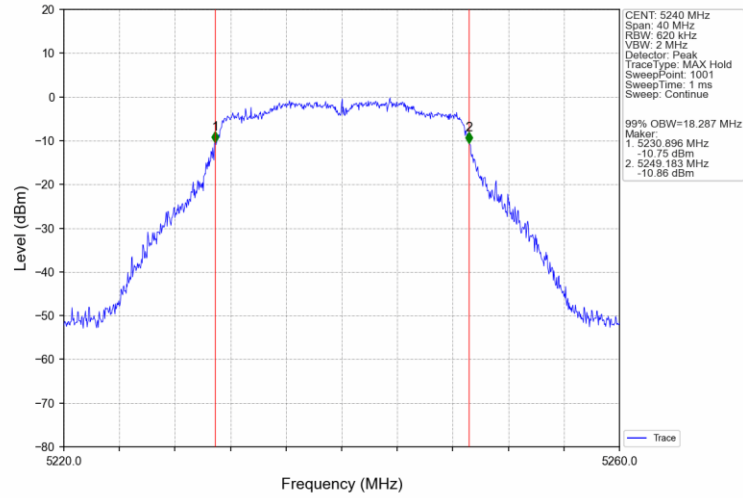


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

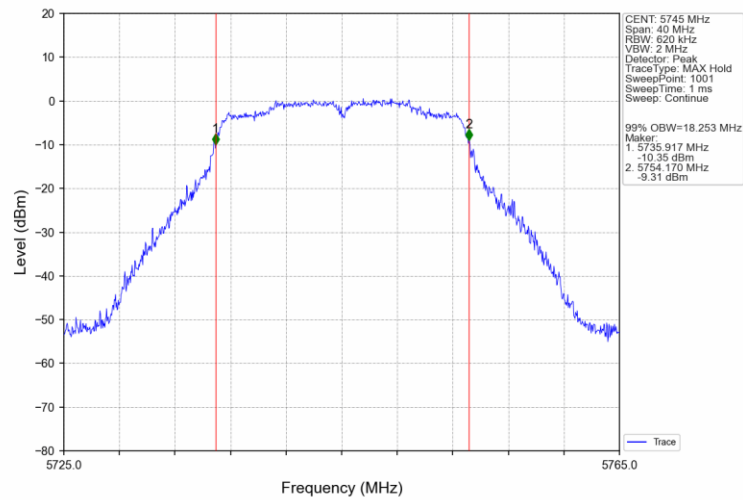




802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

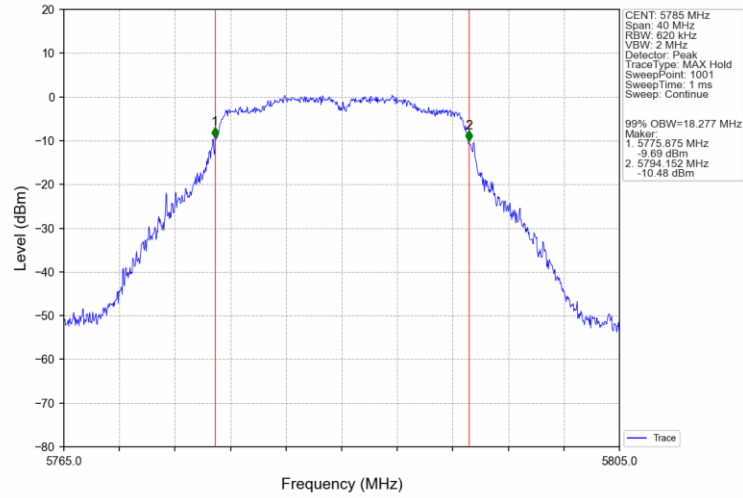


802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

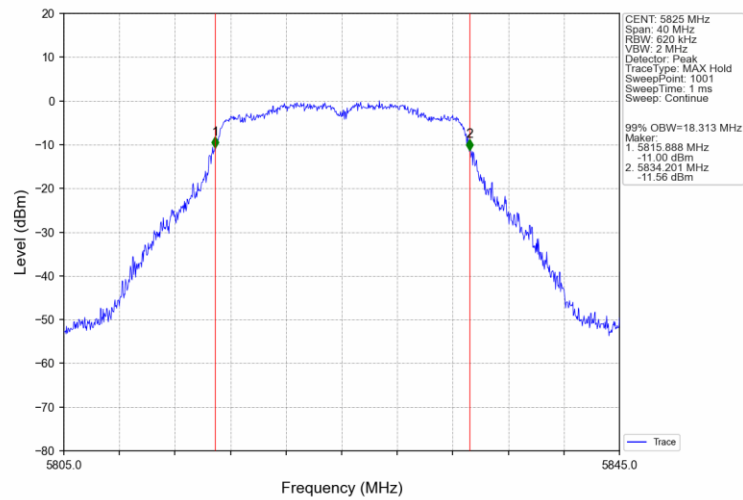




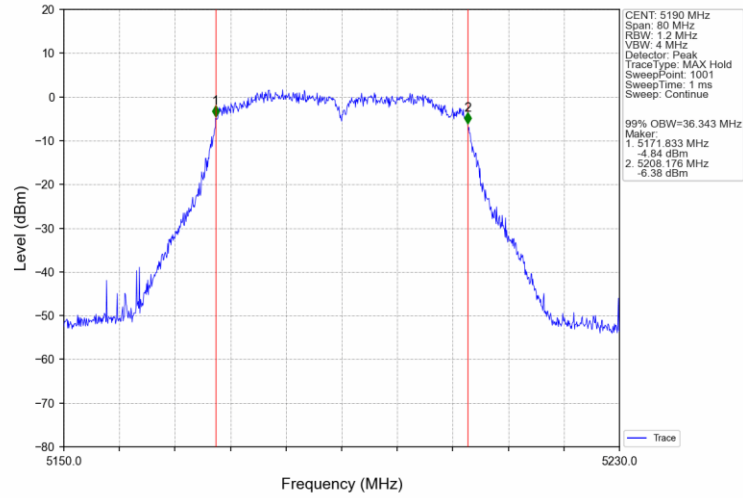
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



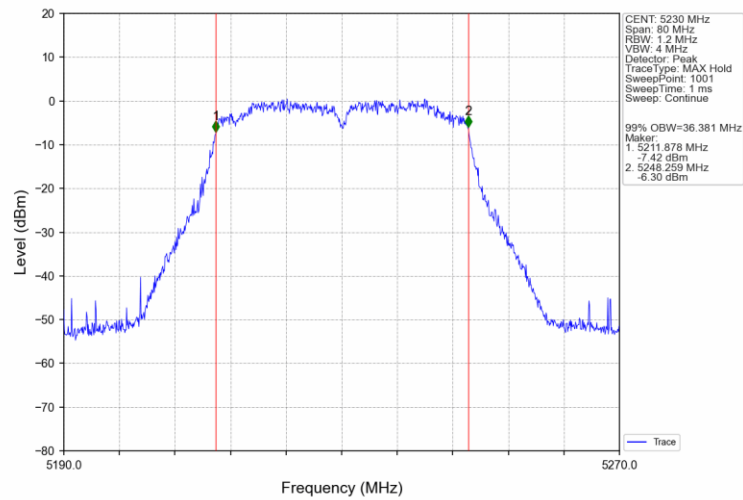
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

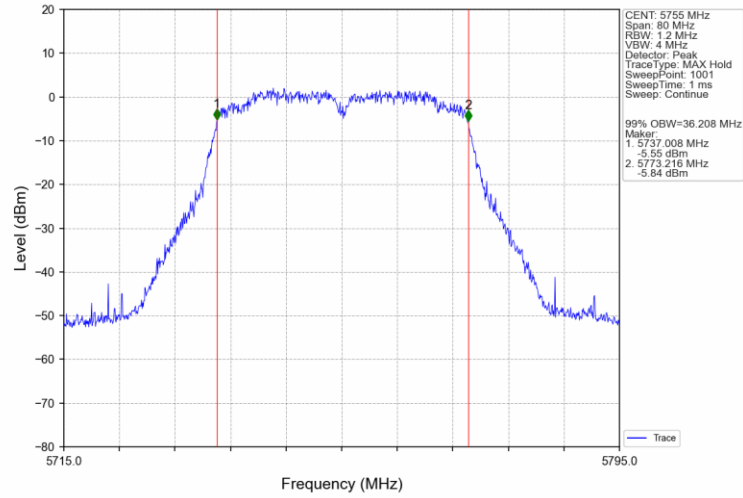


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

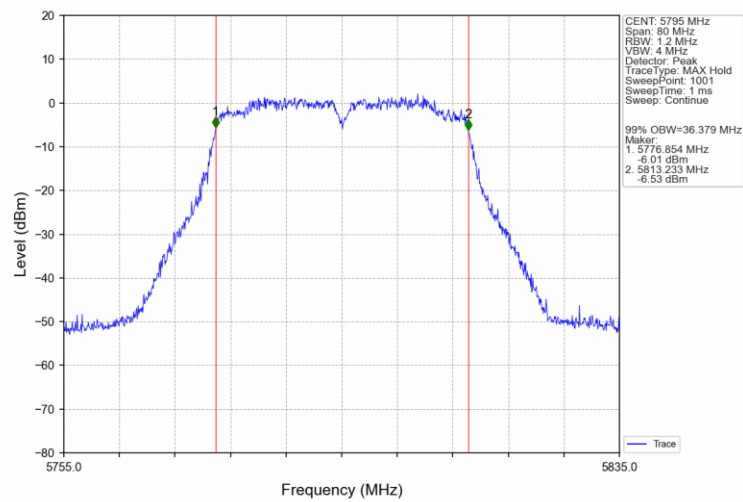




802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

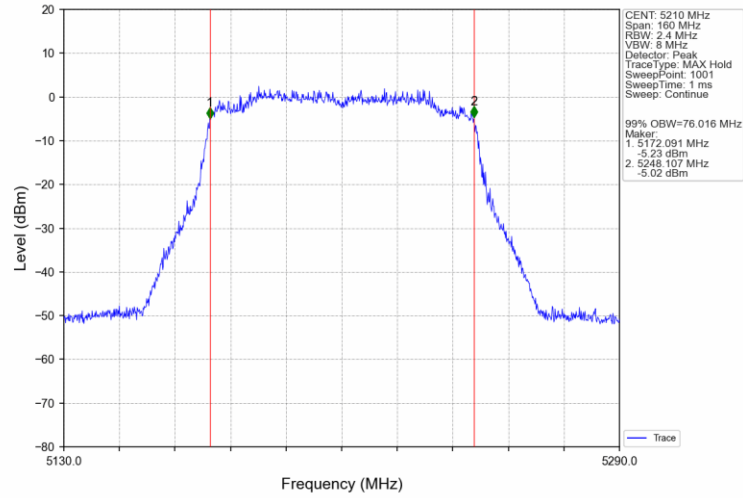


802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

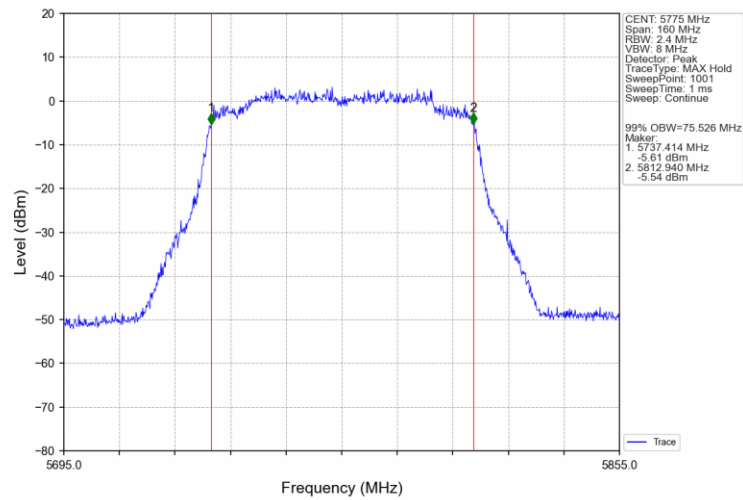




802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

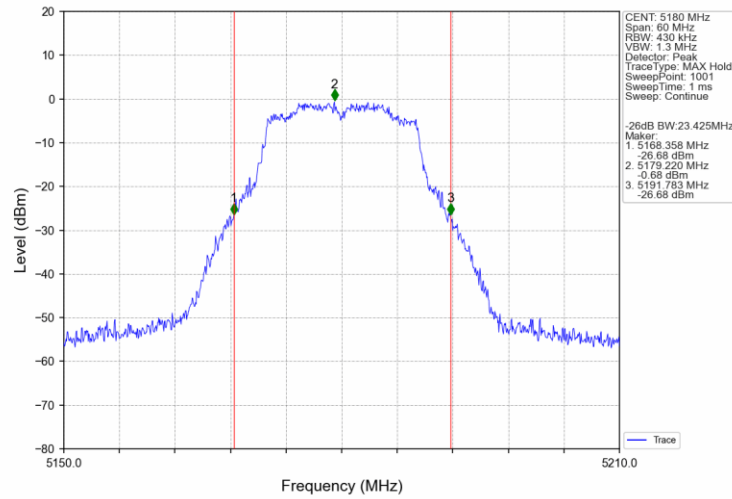


802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

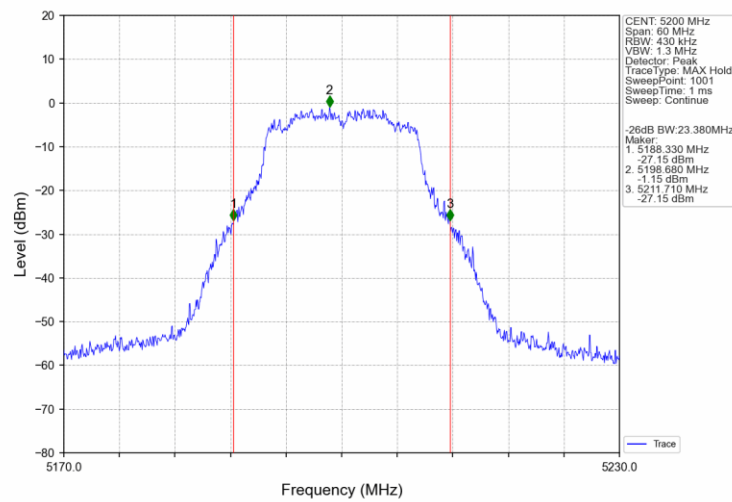


2.2.2 26dB BW

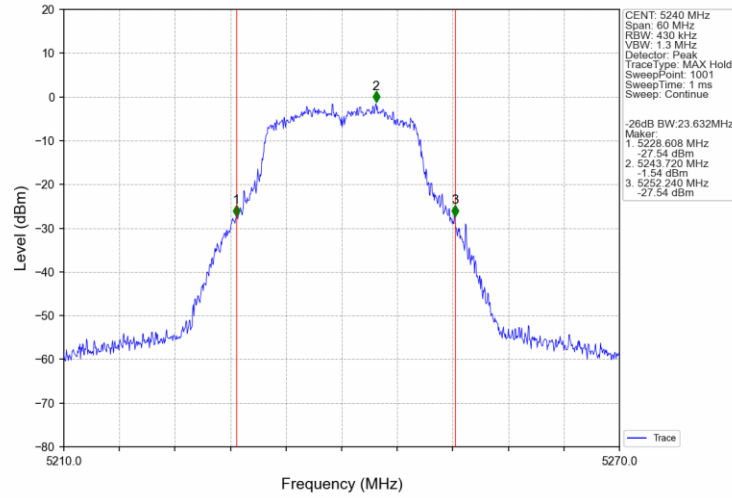
802.11a_LCH_5180MHz_Ant1_NTNV



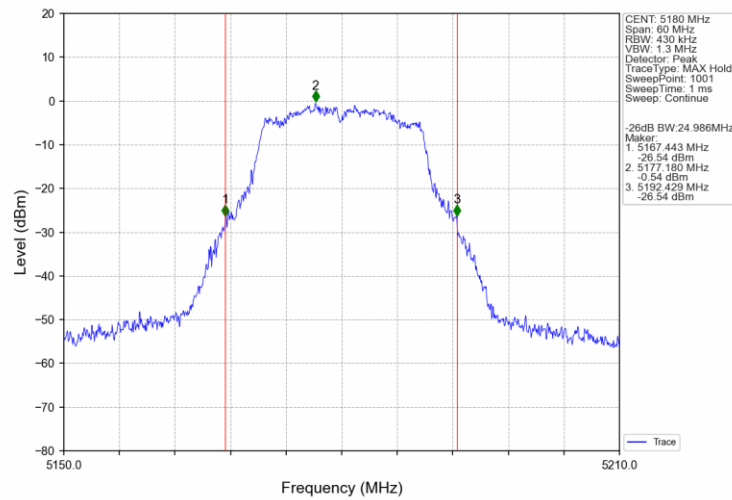
802.11a_MCH_5200MHz_Ant1_NTNV



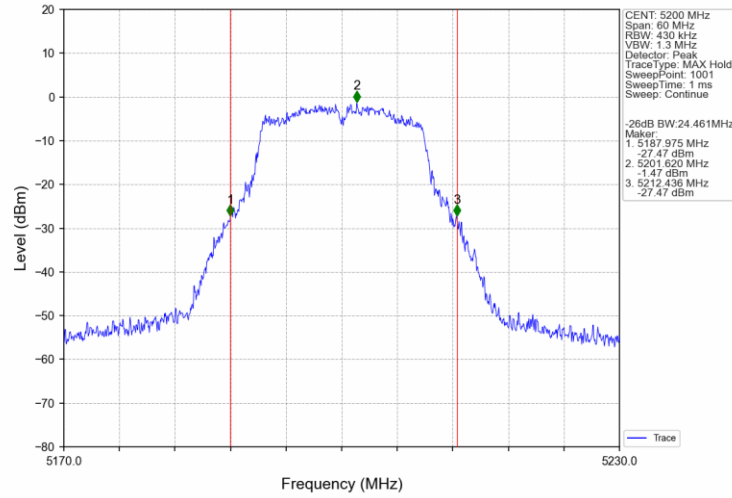
802.11a_HCH_5240MHz_Ant1_NTNV



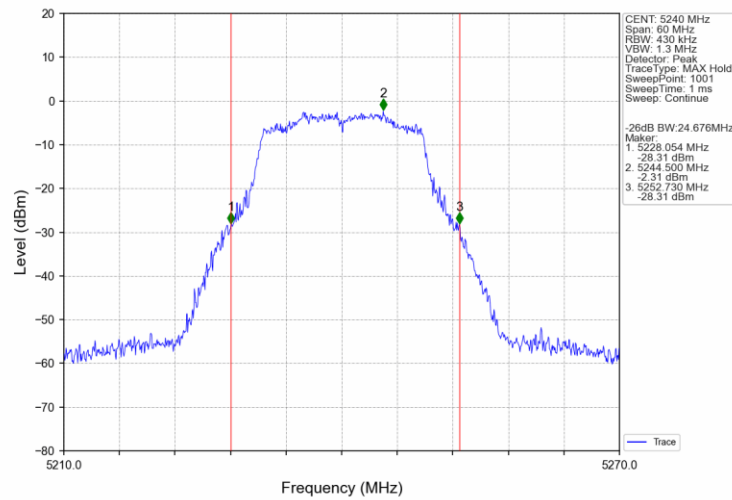
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

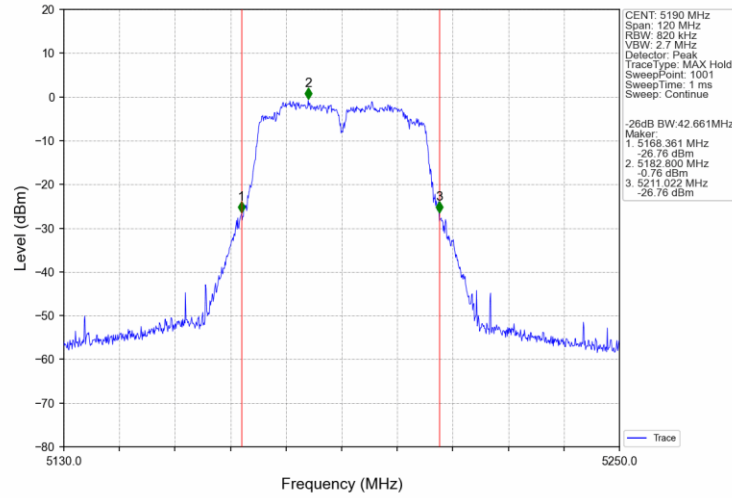


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

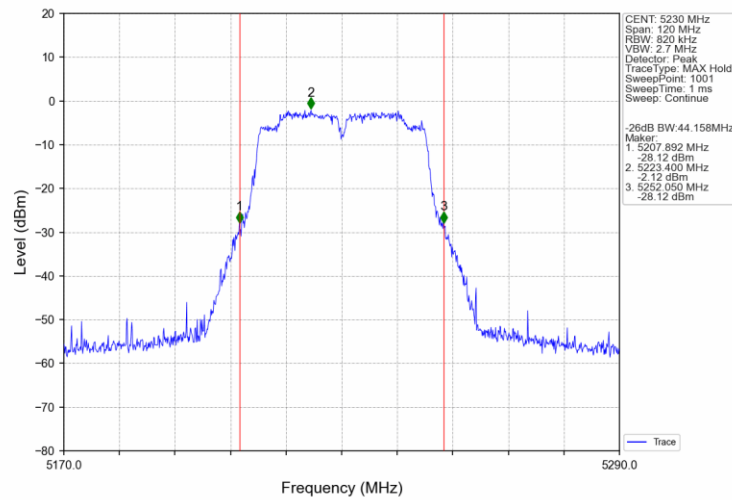




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

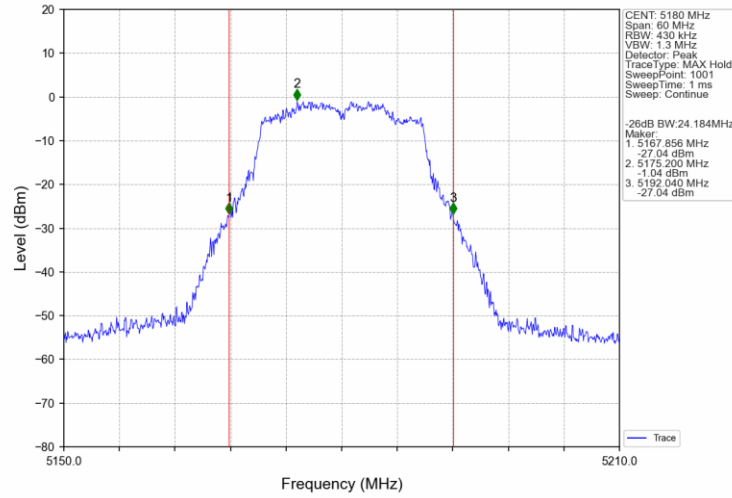


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

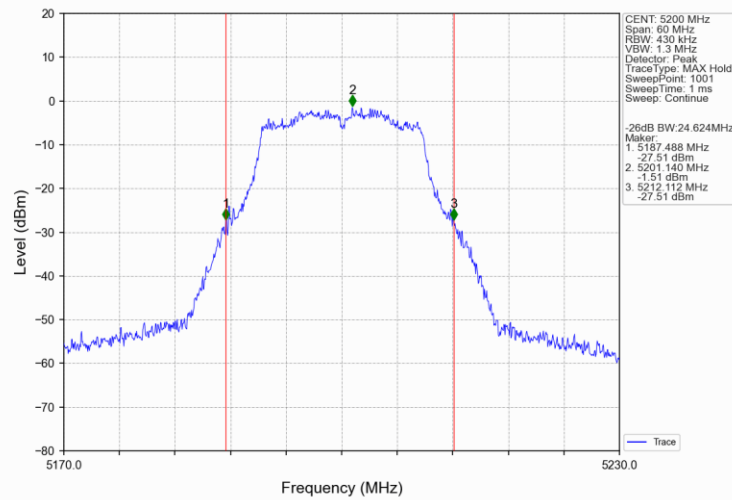




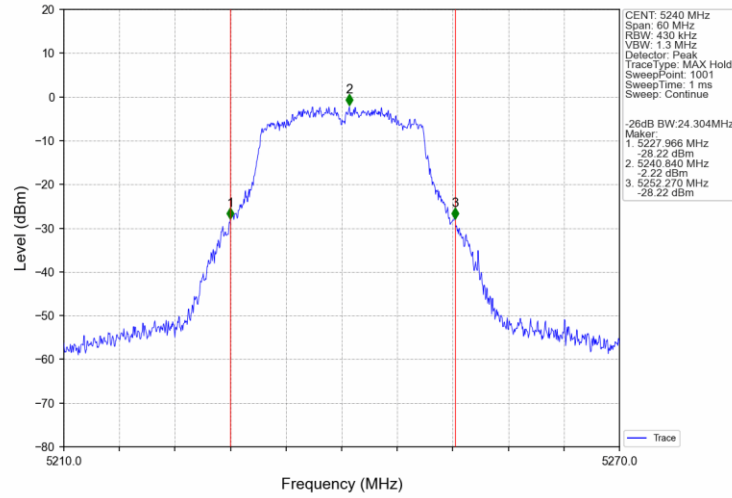
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



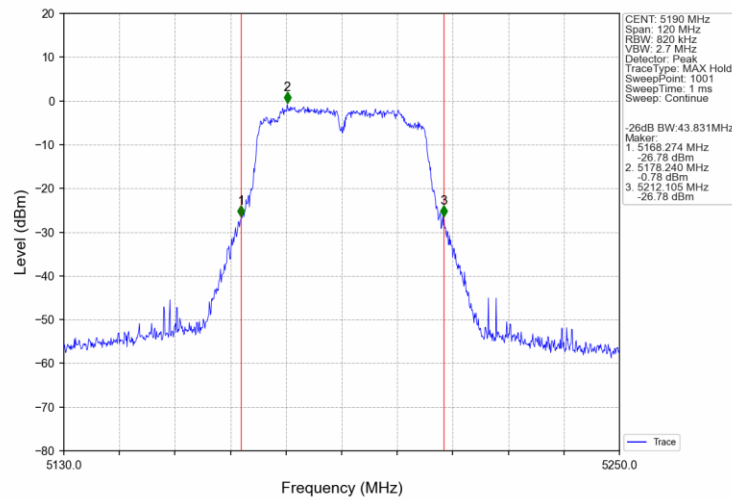
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



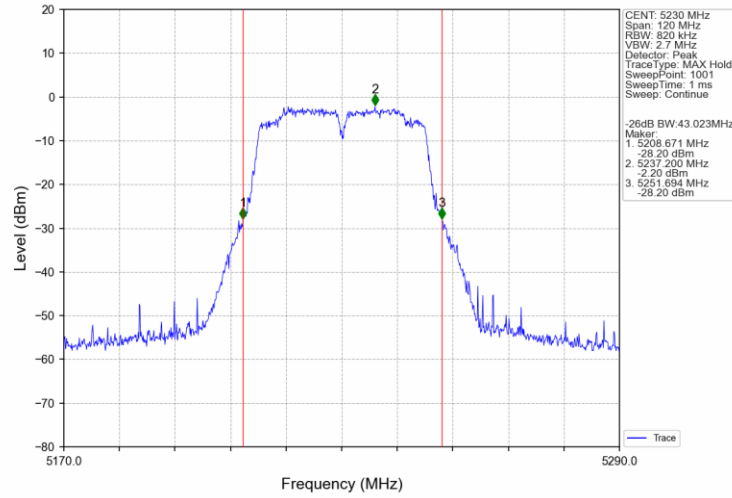
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



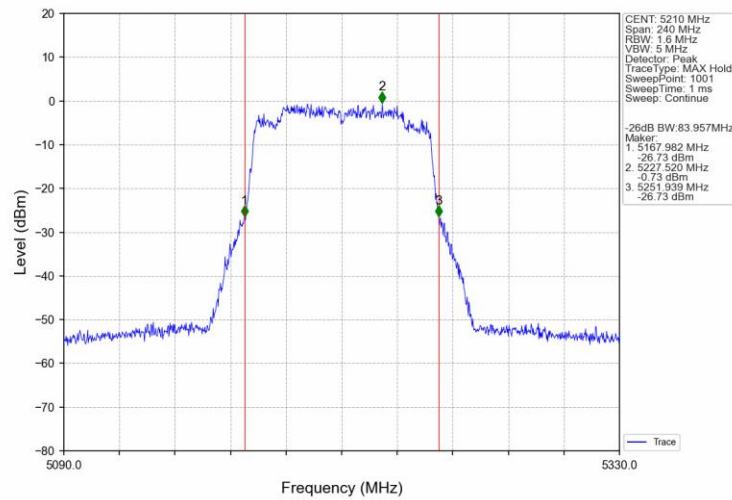
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

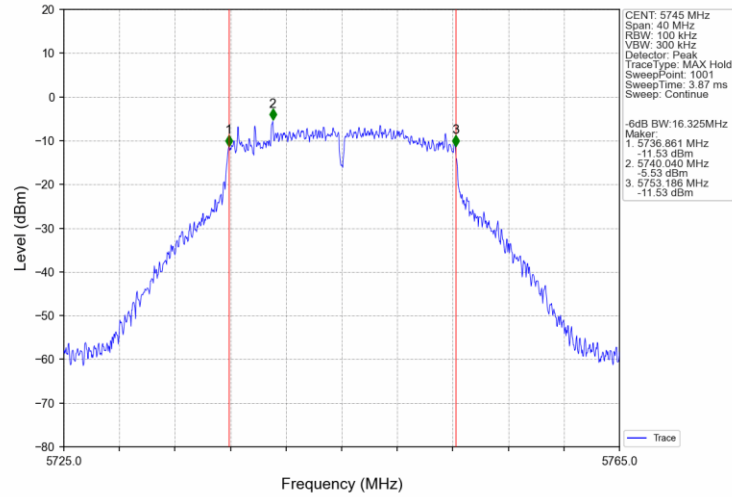


802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



2.2.3 6dB BW

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV

