

Appendix RF Test Data for 5G WIFI

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

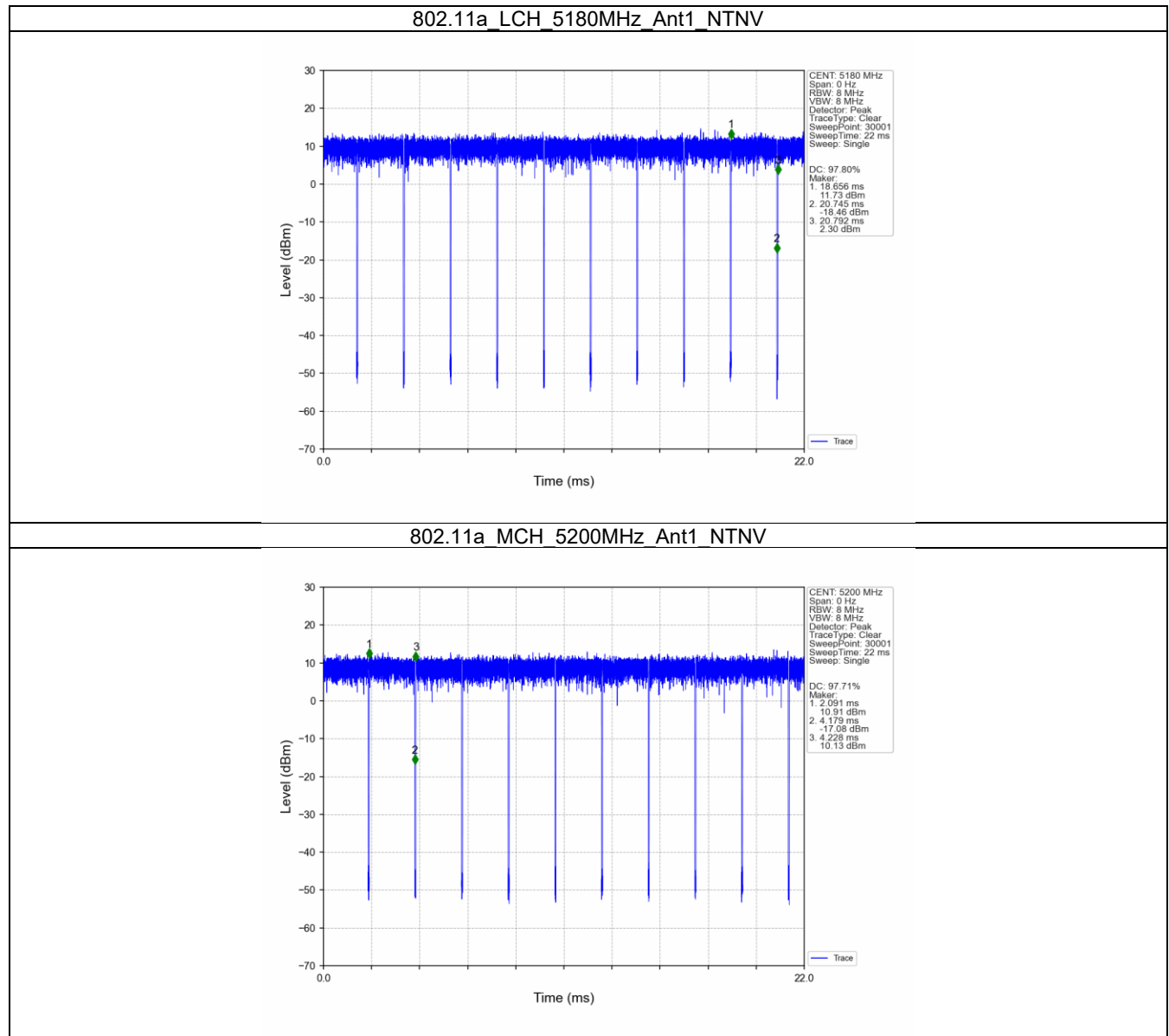
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.089	2.136	97.80	0.10	0.03
		5200	2.088	2.137	97.71	0.10	0.10
		5240	2.088	2.137	97.71	0.10	0.14
		5260	2.088	2.136	97.75	0.10	0.07
		5300	2.088	2.136	97.75	0.10	0.10
		5320	2.089	2.136	97.80	0.10	0.07
		5500	0.148	0.196	75.51	1.22	0.98
		5580	0.149	0.197	75.63	1.21	0.68
		5700	0.151	0.197	76.65	1.15	0.71
		5745	0.148	0.197	75.13	1.24	1.05
		5785	0.148	0.196	75.51	1.22	0.48
802.11n (HT20)	SISO	5825	0.149	0.197	75.63	1.21	0.39
		5180	0.178	0.225	79.11	1.02	1.08
		5200	0.178	0.224	79.46	1.00	0.68
		5240	0.177	0.224	79.02	1.02	0.62
		5260	0.179	0.225	79.56	0.99	1.13
		5300	0.177	0.224	79.02	1.02	0.52
		5320	0.179	0.225	79.56	0.99	0.65
		5500	0.177	0.226	78.32	1.06	0.99
		5580	0.177	0.225	78.67	1.04	0.99
		5700	0.178	0.225	79.11	1.02	0.53
		5745	0.176	0.225	78.22	1.07	0.88
802.11n (HT40)	SISO	5785	0.176	0.224	78.57	1.05	0.76
		5825	0.179	0.226	79.20	1.01	0.97
		5190	0.181	0.229	79.04	1.02	0.89
		5230	0.181	0.228	79.39	1.00	0.27
		5270	0.180	0.228	78.95	1.03	0.33
		5310	0.183	0.228	80.26	0.95	0.60
		5510	0.181	0.228	79.39	1.00	0.31
		5550	0.181	0.228	79.39	1.00	0.65
802.11ac (VHT20)	SISO	5670	0.181	0.228	79.39	1.00	0.52
		5755	0.181	0.228	79.39	1.00	0.67
		5795	0.181	0.228	79.39	1.00	0.73
		5180	0.177	0.226	78.32	1.06	0.63
		5200	0.177	0.225	78.67	1.04	0.73
		5240	0.165	0.213	77.46	1.11	0.75
		5260	0.165	0.214	77.10	1.13	1.03
		5300	0.165	0.213	77.46	1.11	0.73
		5320	0.165	0.213	77.46	1.11	1.10
		5500	0.165	0.212	77.83	1.09	0.61
		5580	0.165	0.213	77.46	1.11	0.77
802.11ac (VHT40)	SISO	5700	0.165	0.213	77.46	1.11	0.98
		5745	0.165	0.213	77.46	1.11	0.68
		5785	0.164	0.213	77.00	1.14	0.72
		5825	0.164	0.213	77.00	1.14	0.80
		5190	0.157	0.204	76.96	1.14	0.68
		5230	0.000	0.047	0.00	0.00	77.08
		5270	0.159	0.205	77.56	1.10	0.93
		5310	0.157	0.205	76.59	1.16	0.81



		5510	0.157	0.205	76.59	1.16	0.94
		5550	0.159	0.205	77.56	1.10	0.82
		5670	0.156	0.204	76.47	1.17	0.52
		5755	0.157	0.206	76.21	1.18	0.92
		5795	0.157	0.204	76.96	1.14	0.53

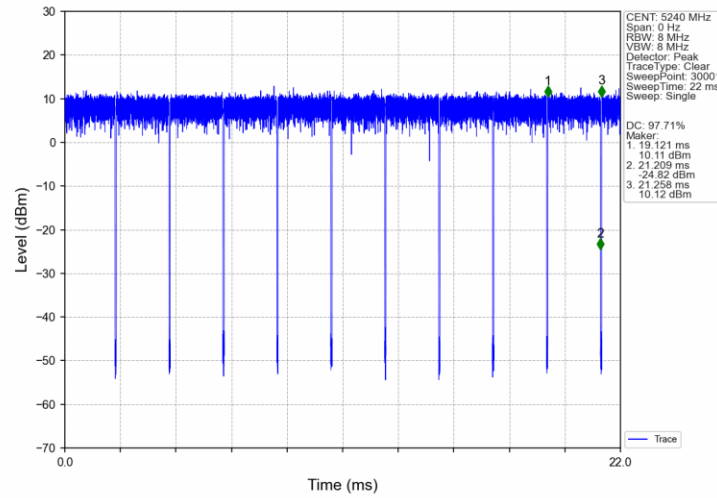
1.2 Test Graph

1.2.1 Ant1

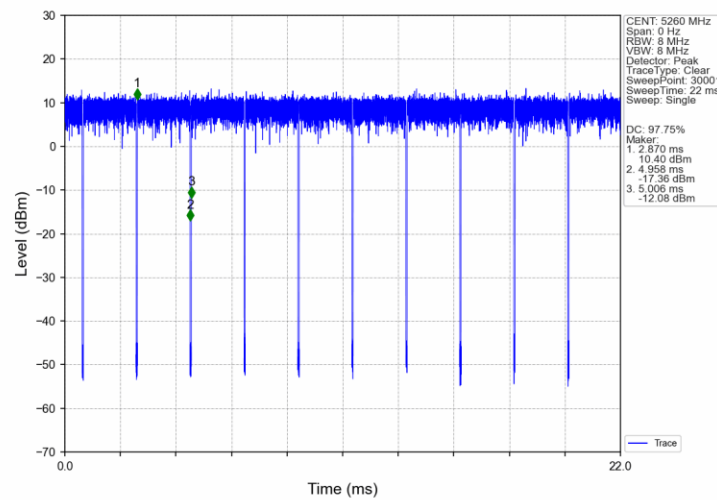




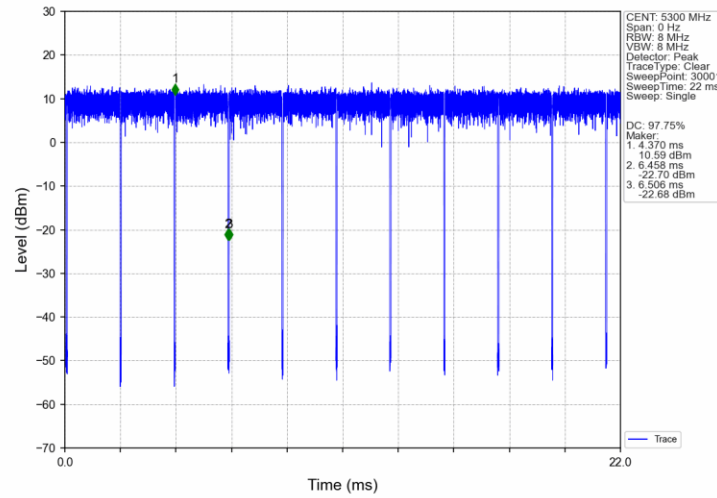
802.11a_HCH_5240MHz_Ant1_NTNV



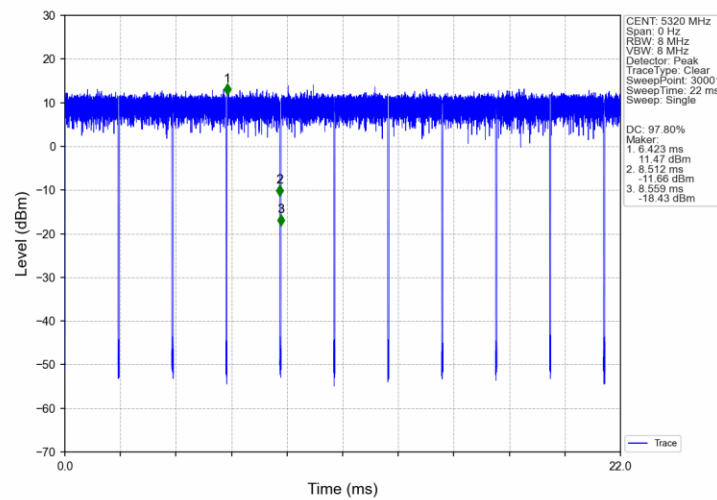
802.11a_LCH_5260MHz_Ant1_NTNV



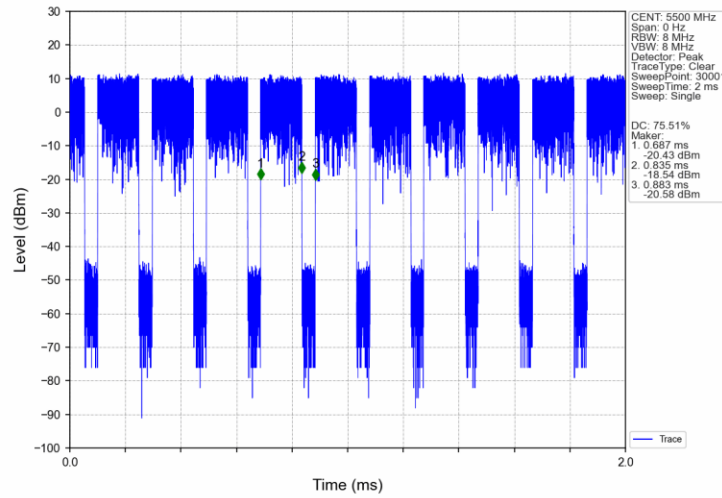
802.11a_MCH_5300MHz_Ant1_NTNV



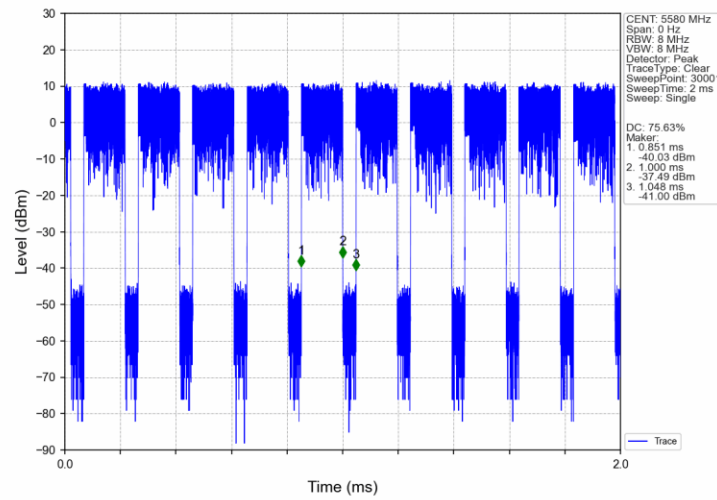
802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant1_NTNV

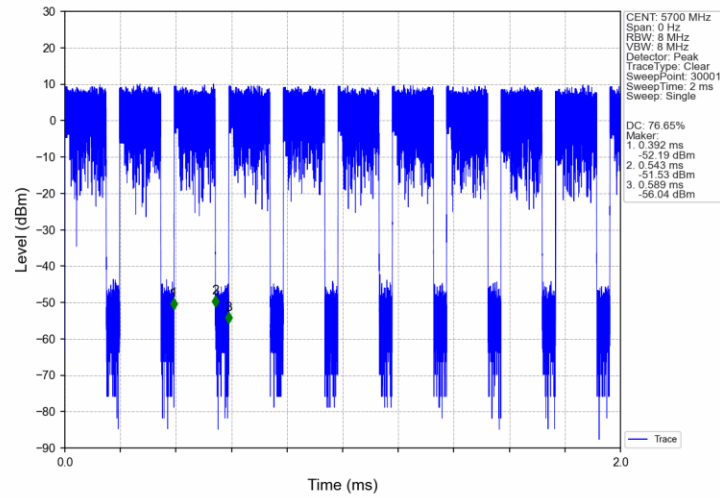


802.11a_MCH_5580MHz_Ant1_NTNV

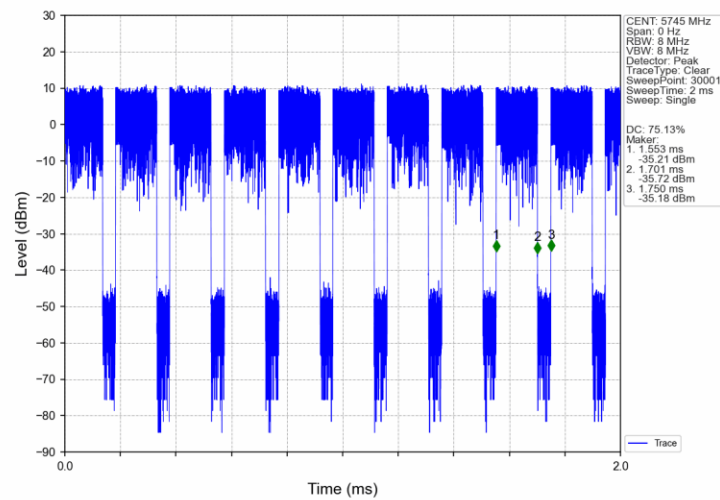




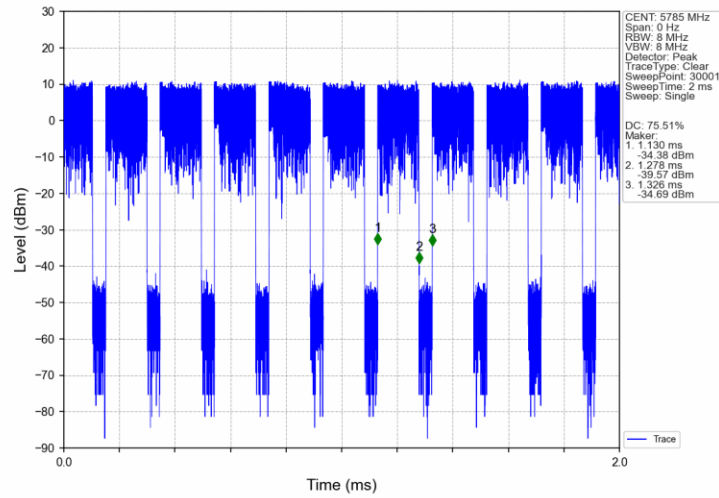
802.11a_HCH_5700MHz_Ant1_NTNV



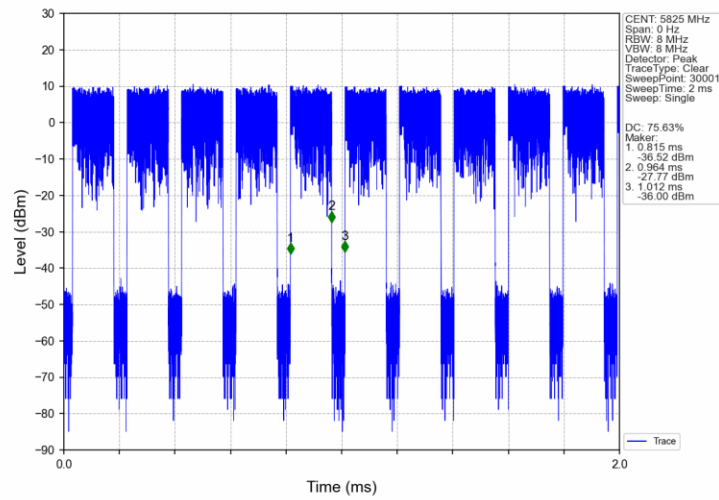
802.11a_LCH_5745MHz_Ant1_NTNV



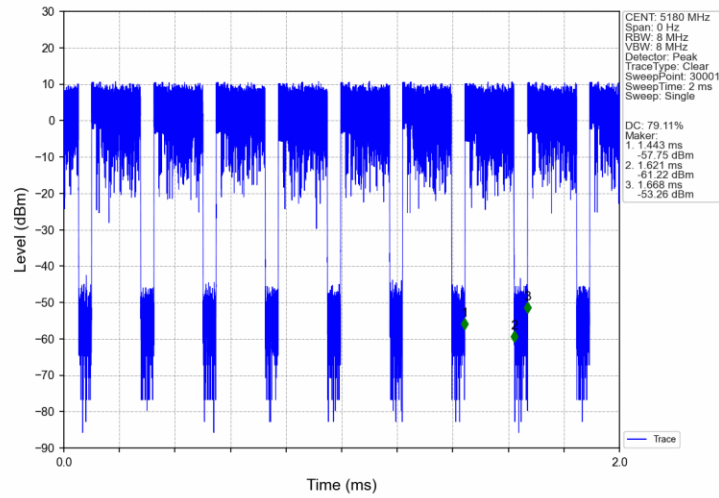
802.11a_MCH_5785MHz_Ant1_NTNV



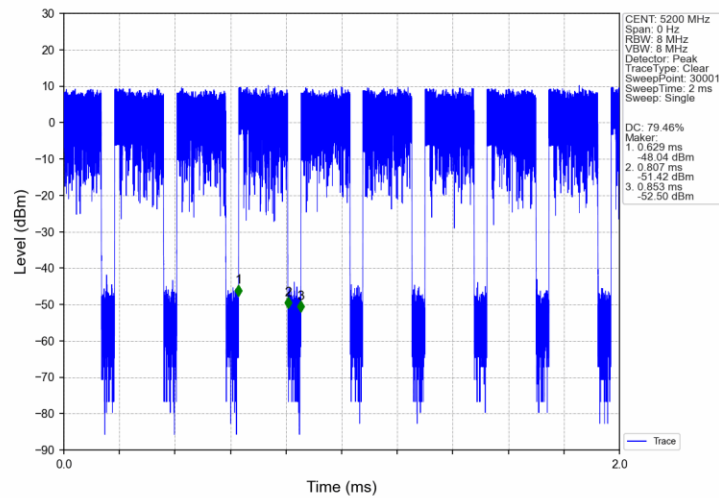
802.11a_HCH_5825MHz_Ant1_NTNV



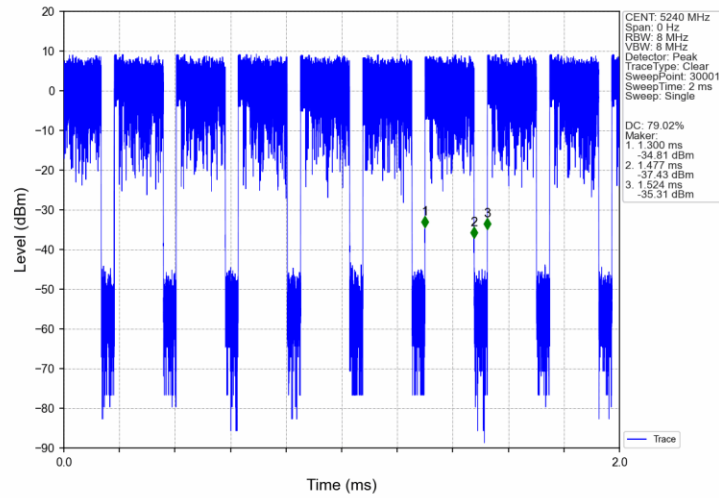
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



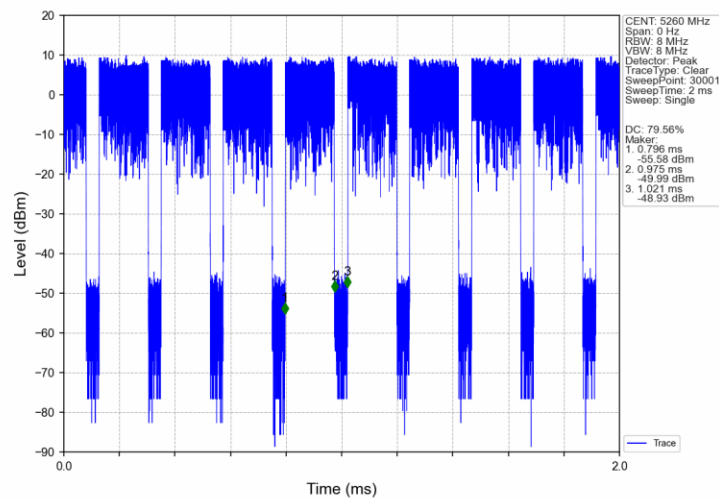
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



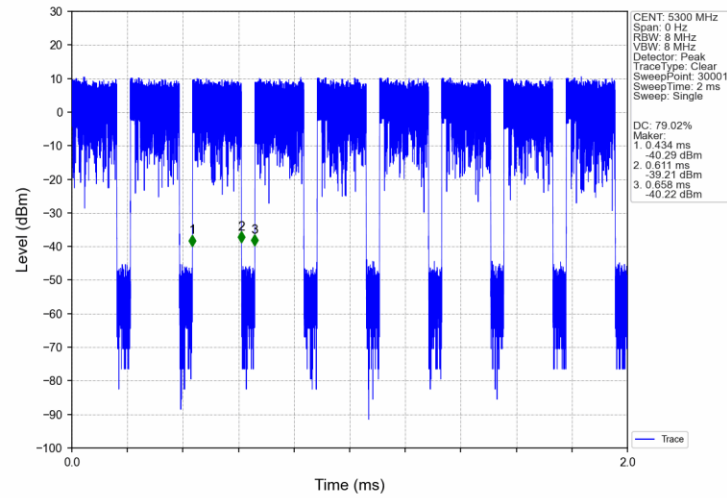
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



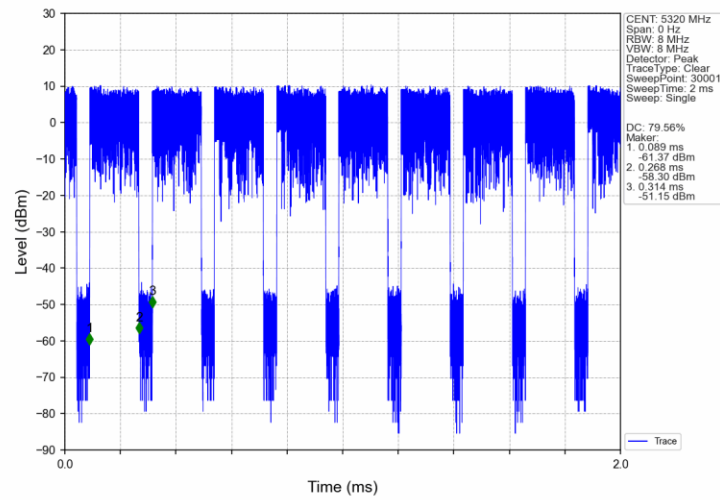
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



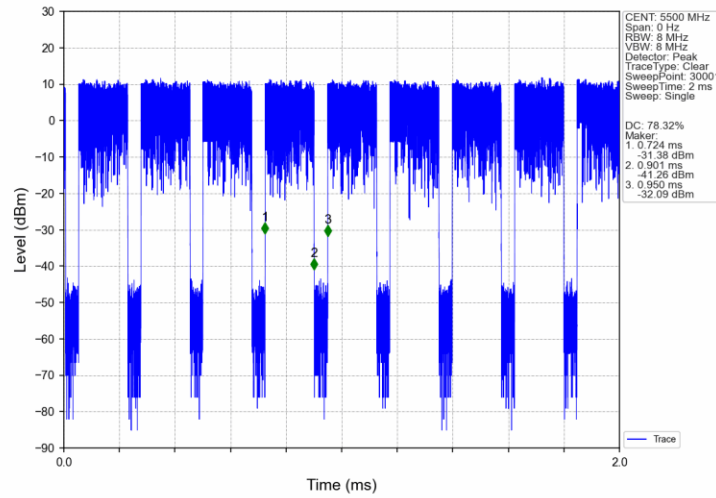
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



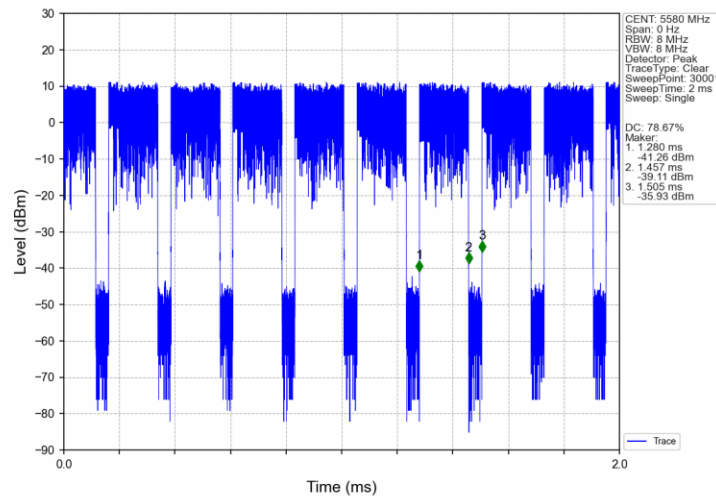
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



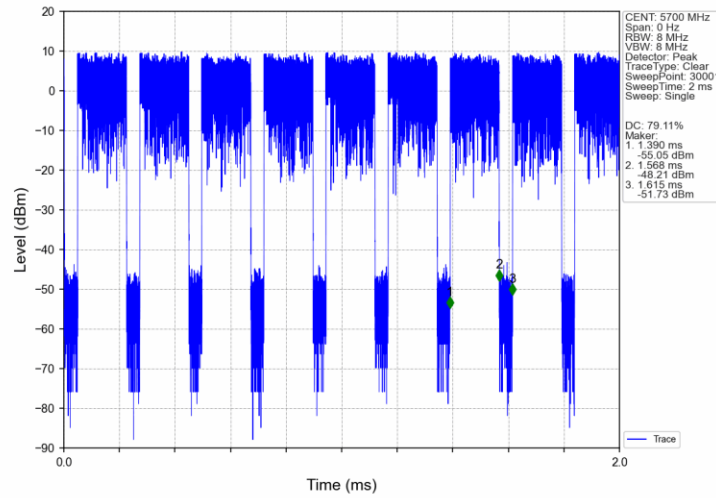
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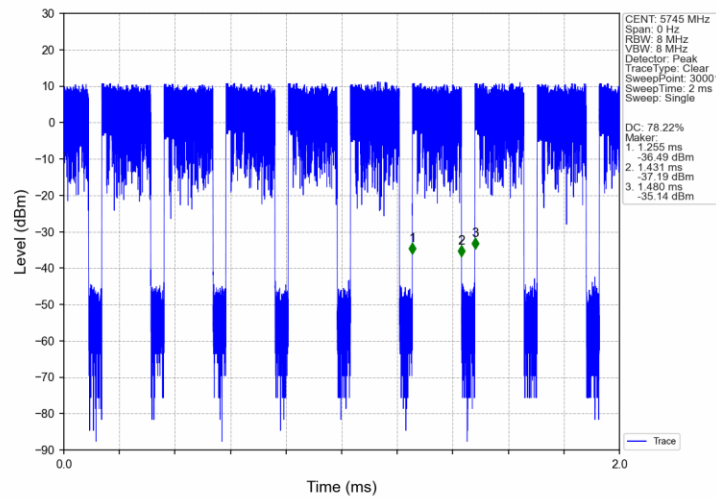
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



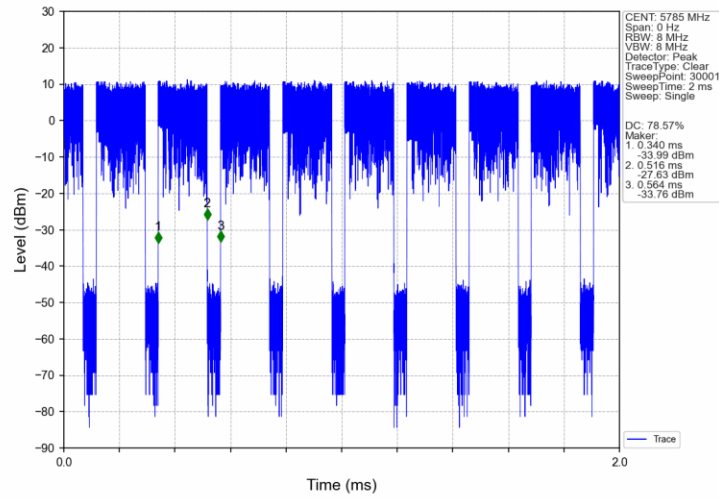
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



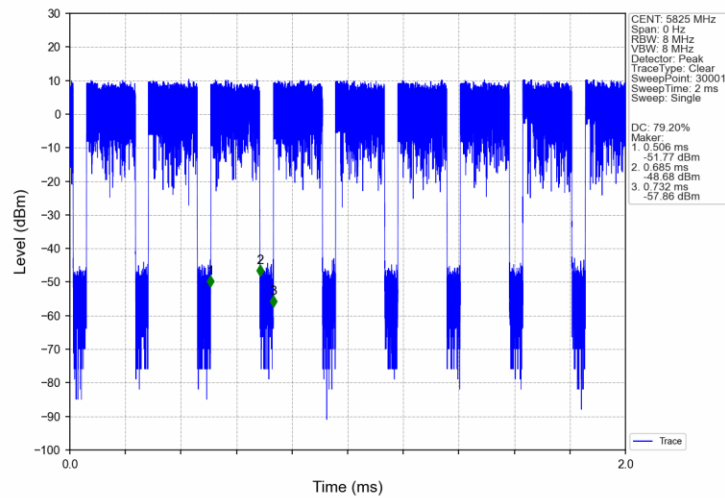
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



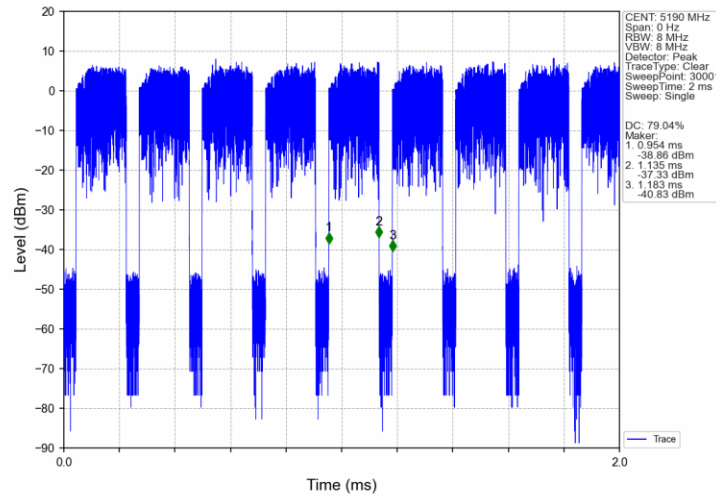
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



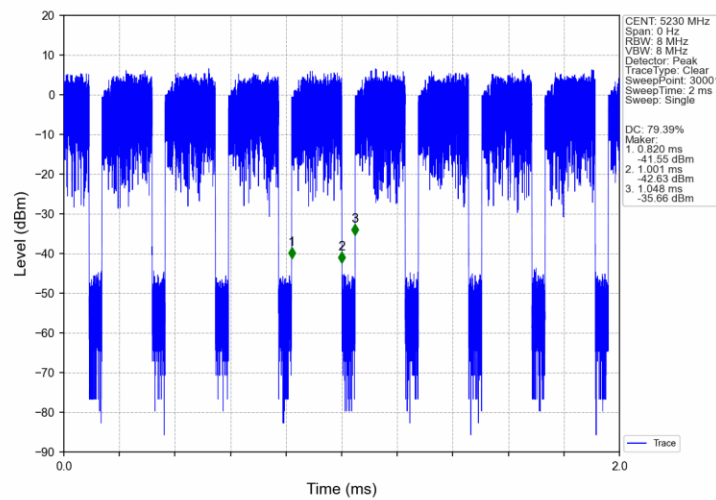
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



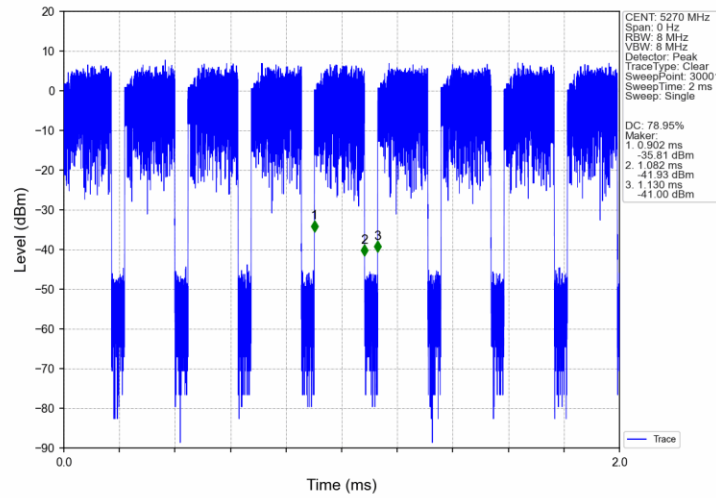
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



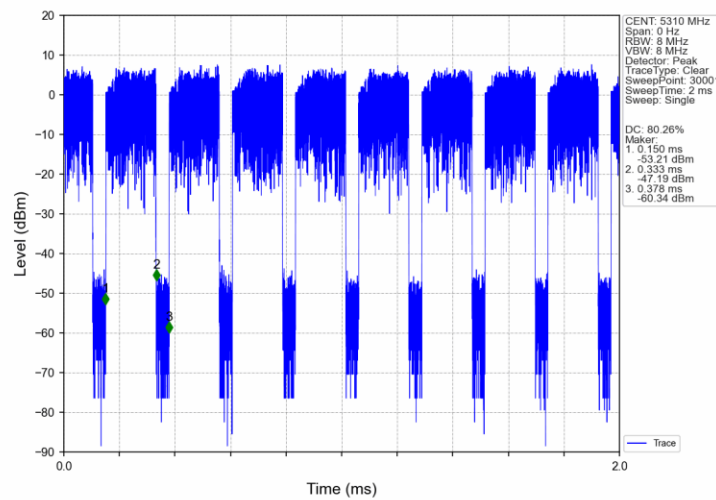
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



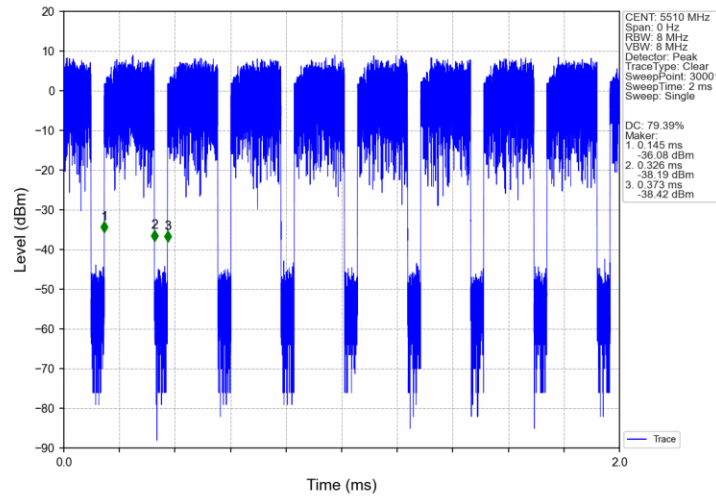
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



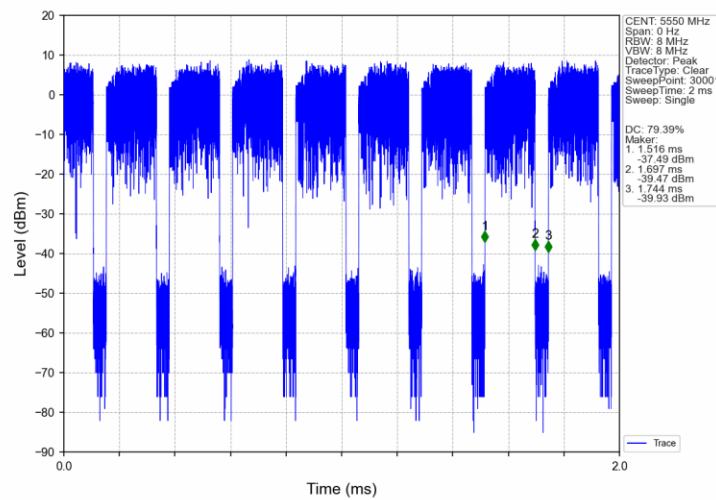
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



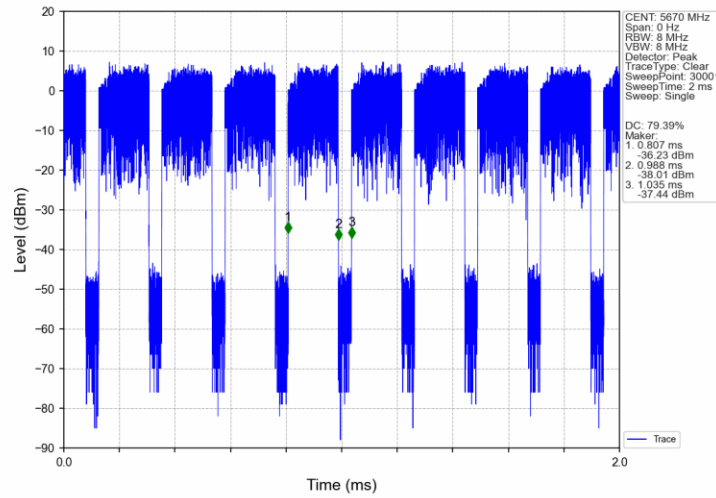
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



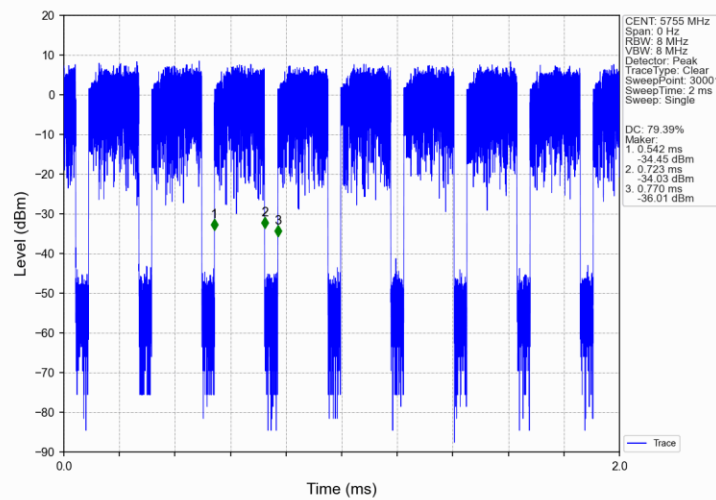
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



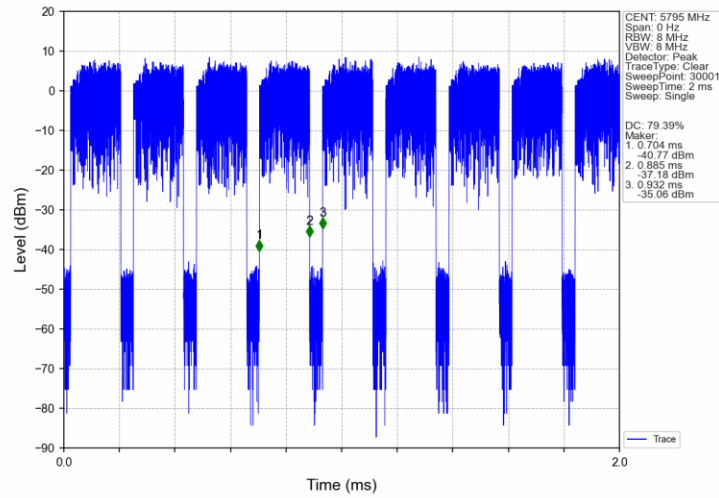
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



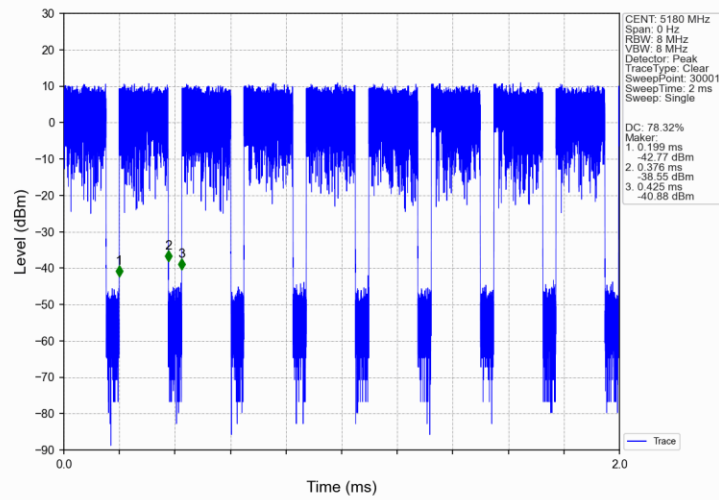
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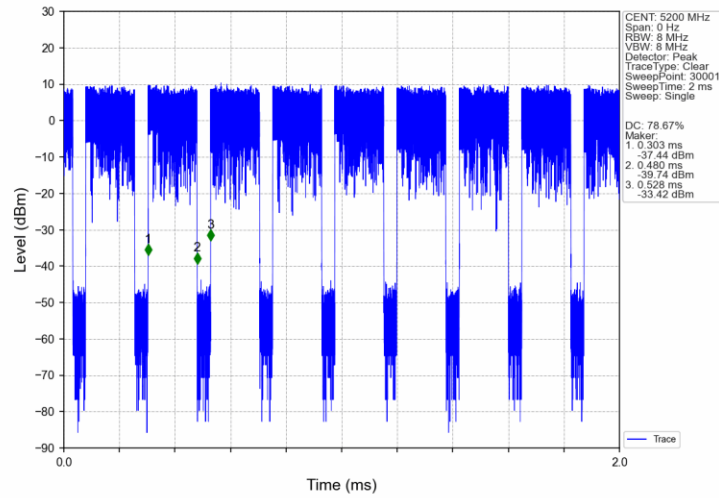
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



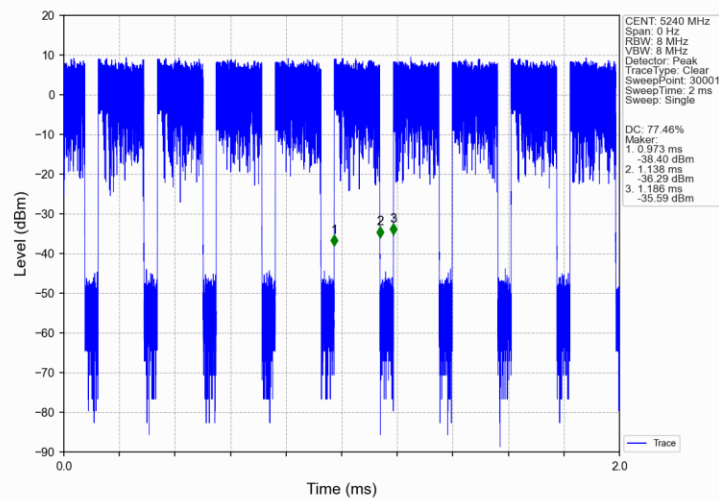
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



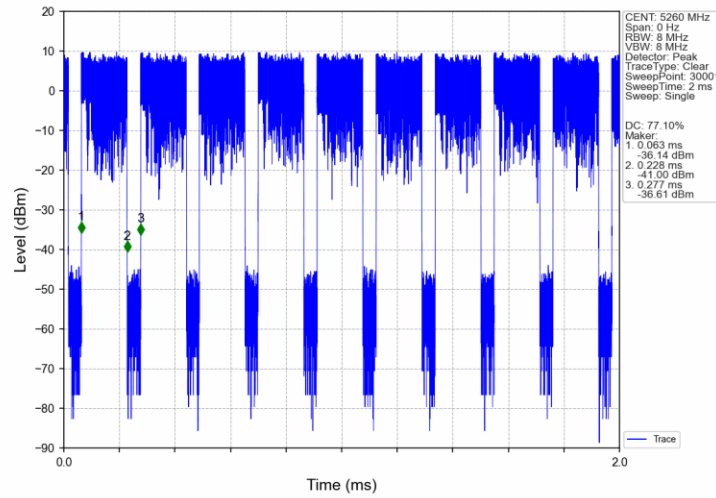
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



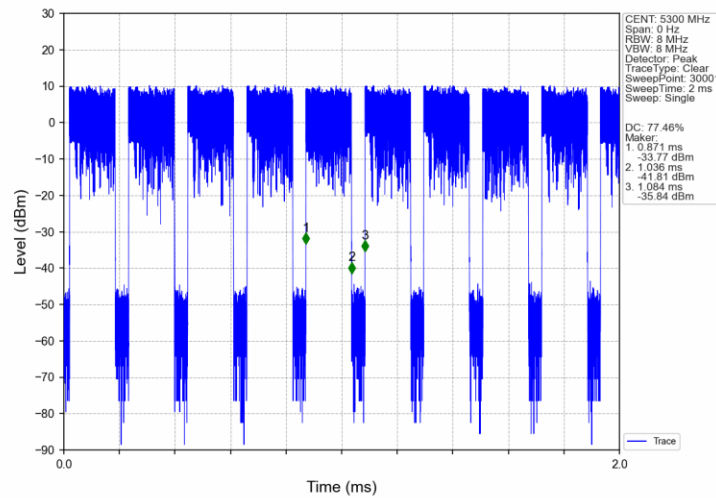
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



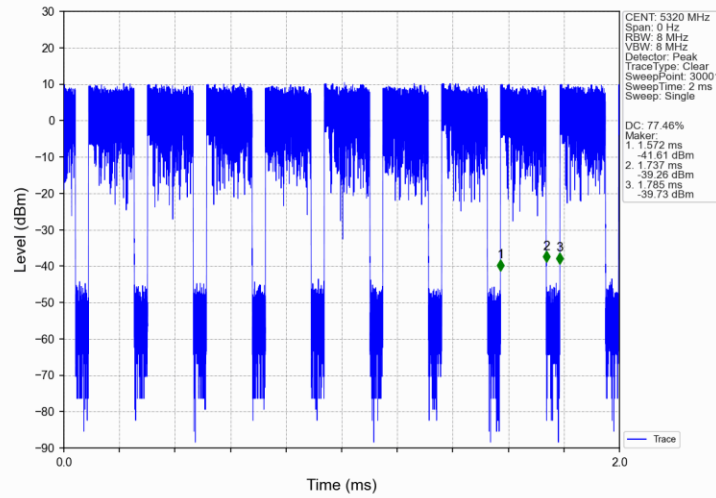
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



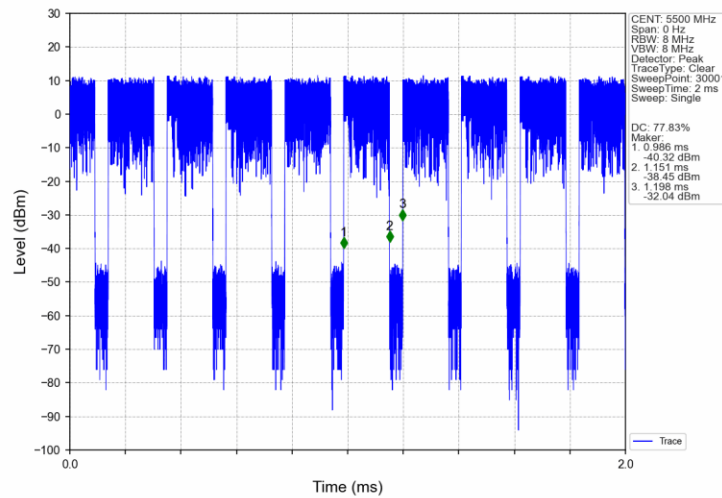
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



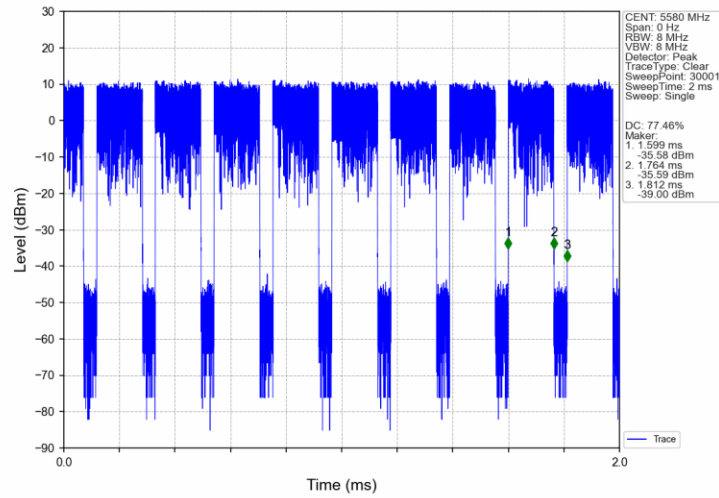
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



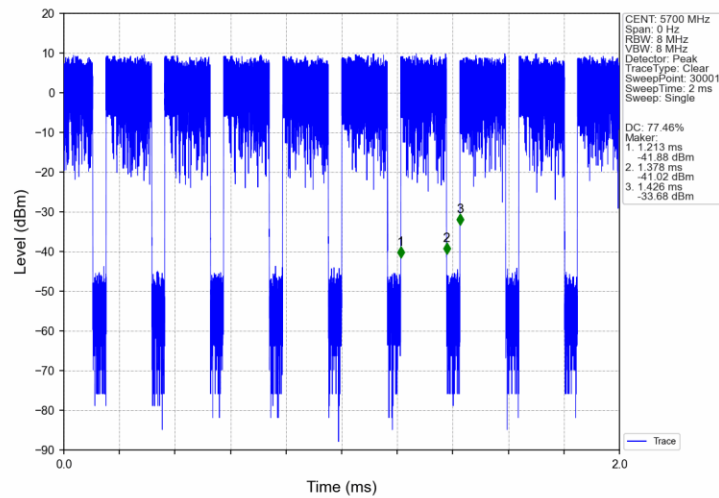
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



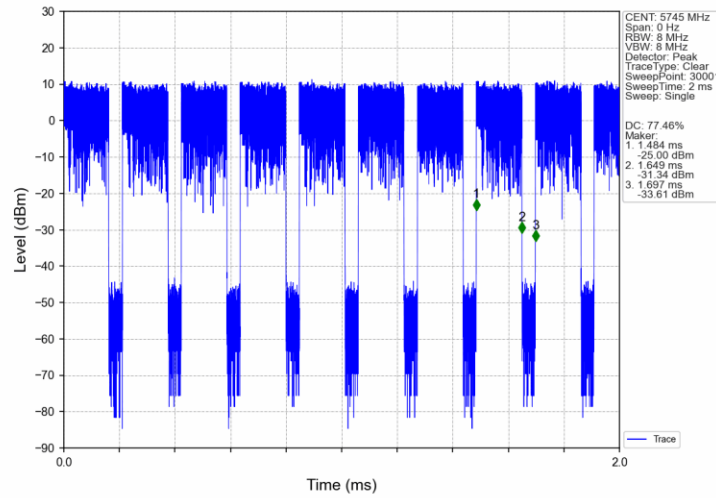
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



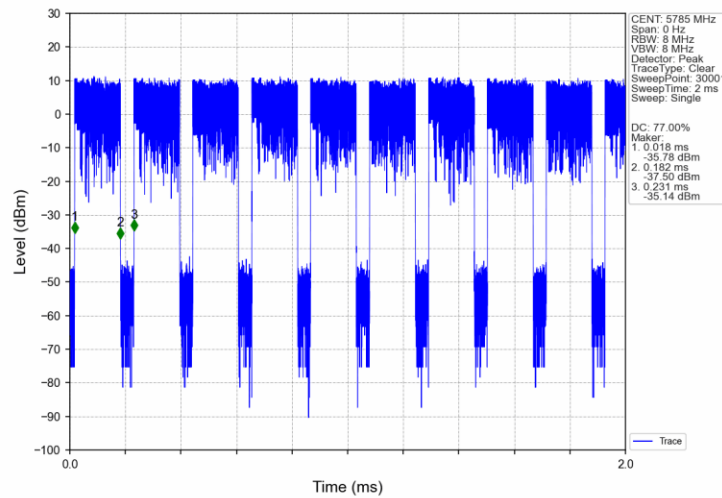
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



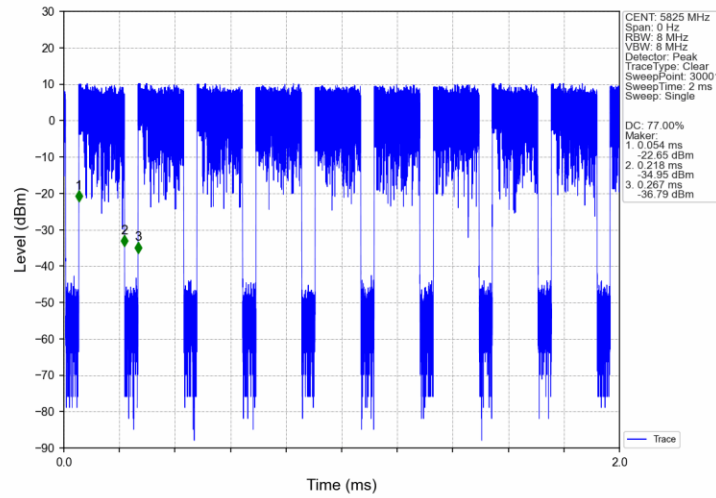
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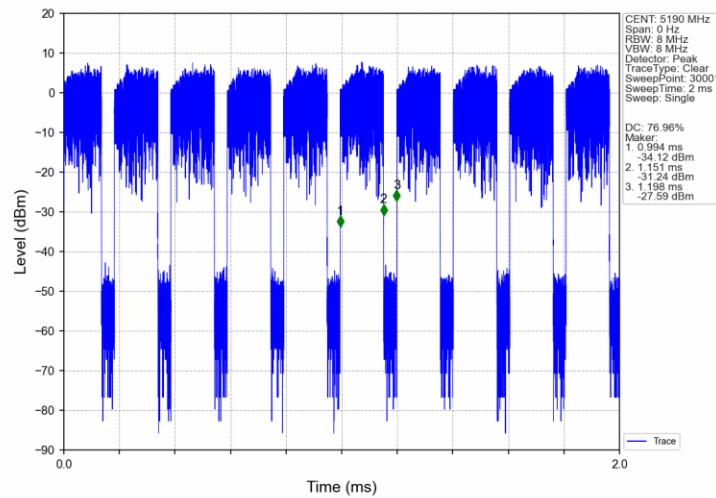
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



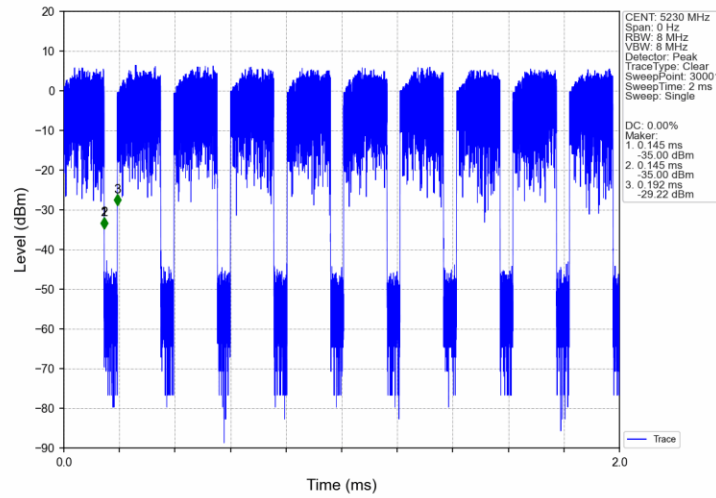
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



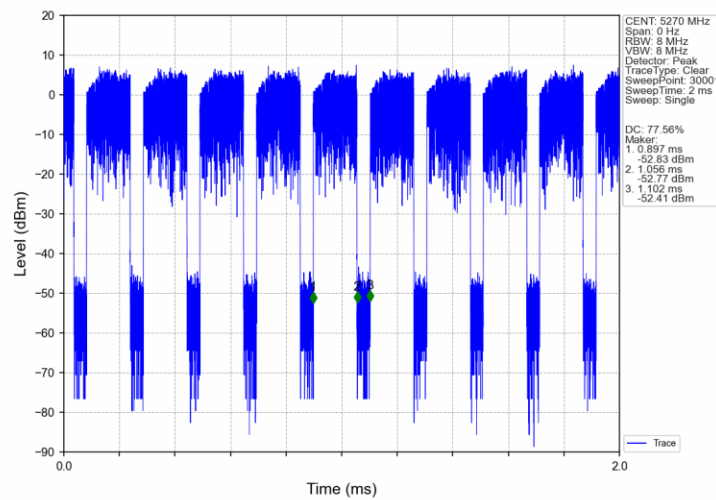
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



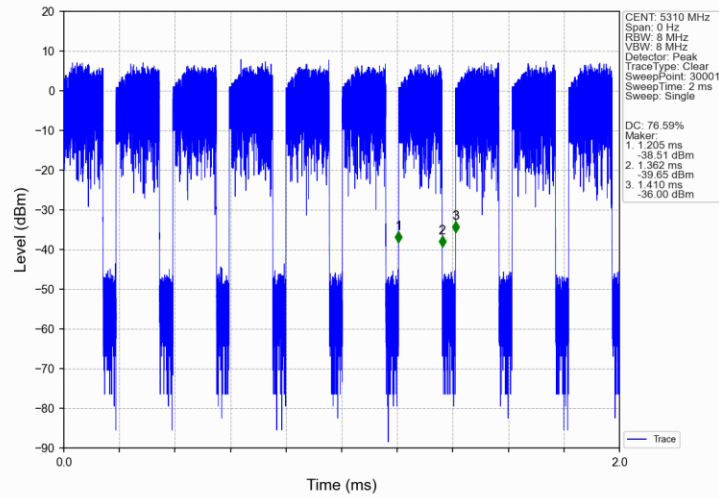
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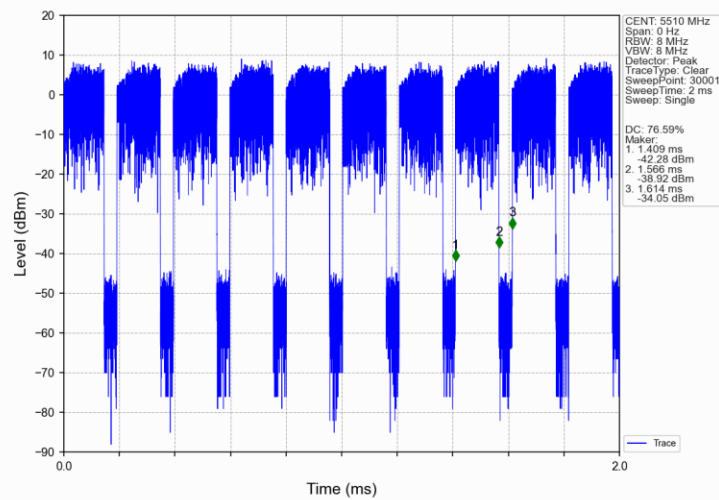
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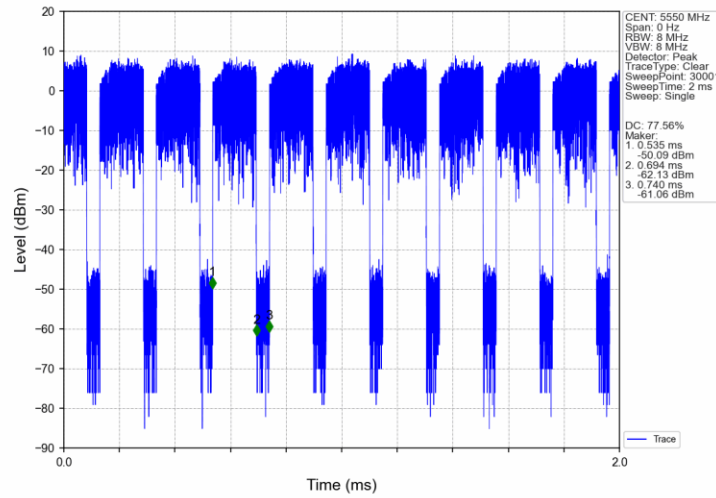
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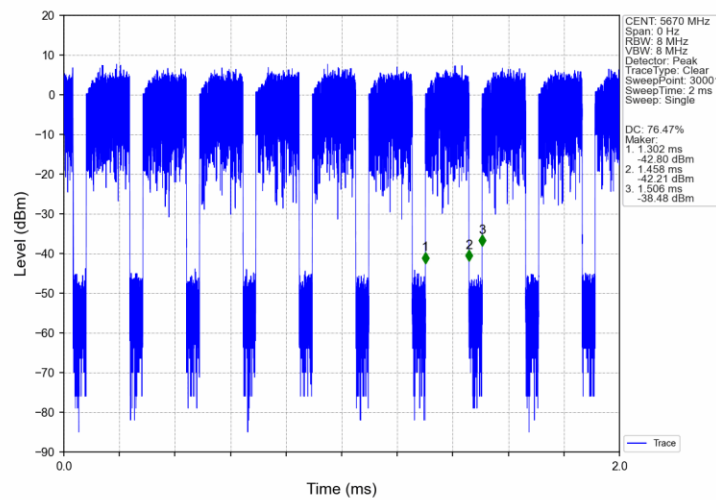
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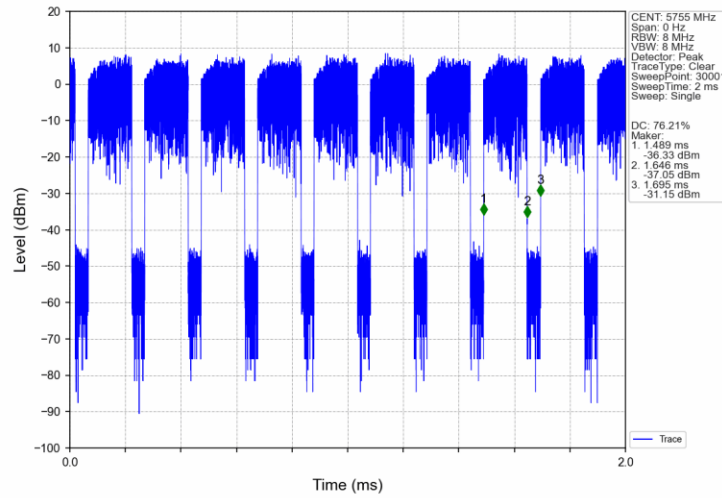
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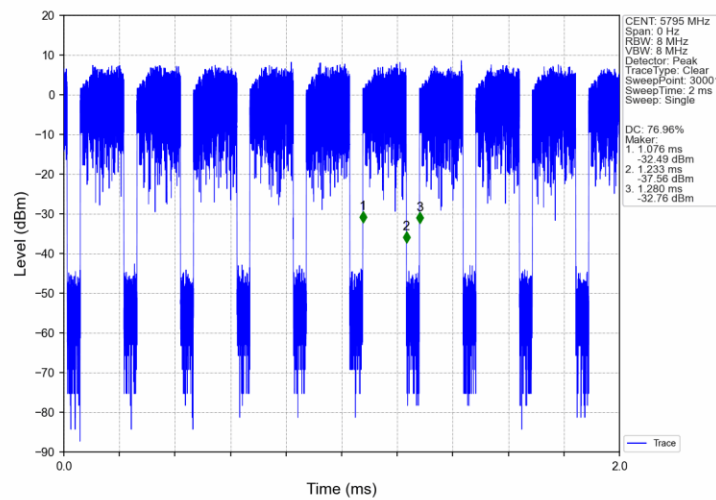
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_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	17.225	/	Pass
		5200	1	17.300	/	Pass
		5240	1	17.353	/	Pass
		5260	1	17.288	/	Pass
		5300	1	17.271	/	Pass
		5320	1	17.281	/	Pass
		5500	1	17.228	/	Pass
		5580	1	17.116	/	Pass
		5700	1	17.372	/	Pass
		5745	1	17.210	/	Pass
		5785	1	17.183	/	Pass
		5825	1	17.245	/	Pass
802.11n (HT20)	SISO	5180	1	18.222	/	Pass
		5200	1	18.238	/	Pass
		5240	1	18.256	/	Pass
		5260	1	18.215	/	Pass
		5300	1	18.129	/	Pass
		5320	1	18.268	/	Pass
		5500	1	18.193	/	Pass
		5580	1	18.085	/	Pass
		5700	1	18.298	/	Pass
		5745	1	18.080	/	Pass
		5785	1	18.187	/	Pass
		5825	1	18.198	/	Pass
802.11n (HT40)	SISO	5190	1	36.341	/	Pass
		5230	1	36.394	/	Pass
		5270	1	36.355	/	Pass
		5310	1	36.362	/	Pass
		5510	1	36.237	/	Pass
		5550	1	36.313	/	Pass
		5670	1	36.318	/	Pass
		5755	1	36.222	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.143	/	Pass
		5200	1	18.174	/	Pass
		5240	1	18.234	/	Pass
		5260	1	18.151	/	Pass
		5300	1	18.158	/	Pass
		5320	1	18.186	/	Pass
		5500	1	18.146	/	Pass
		5580	1	18.213	/	Pass
		5700	1	18.175	/	Pass
		5745	1	18.114	/	Pass
		5785	1	18.215	/	Pass
		5825	1	18.178	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.327	/	Pass
		5230	1	36.333	/	Pass

		5270	1	36.313	/	Pass
		5310	1	36.304	/	Pass
		5510	1	36.240	/	Pass
		5550	1	36.250	/	Pass
		5670	1	36.325	/	Pass
		5755	1	36.255	/	Pass
		5795	1	36.328	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	24.335	/	Pass
		5200	1	24.513	/	Pass
		5240	1	24.172	/	Pass
		5260	1	23.730	/	Pass
		5300	1	23.950	/	Pass
		5320	1	24.314	/	Pass
		5500	1	23.483	/	Pass
		5580	1	23.689	/	Pass
802.11n (HT20)	SISO	5700	1	24.232	/	Pass
		5180	1	24.108	/	Pass
		5200	1	23.507	/	Pass
		5240	1	24.402	/	Pass
		5260	1	23.702	/	Pass
		5300	1	24.893	/	Pass
		5320	1	24.164	/	Pass
		5500	1	23.639	/	Pass
802.11n (HT40)	SISO	5580	1	24.089	/	Pass
		5700	1	23.999	/	Pass
		5190	1	42.849	/	Pass
		5230	1	43.063	/	Pass
		5270	1	42.060	/	Pass
		5310	1	43.673	/	Pass
		5510	1	43.506	/	Pass
		5550	1	42.716	/	Pass
802.11ac (VHT20)	SISO	5670	1	43.099	/	Pass
		5180	1	24.088	/	Pass
		5200	1	23.614	/	Pass
		5240	1	24.168	/	Pass
		5260	1	25.074	/	Pass
		5300	1	24.409	/	Pass
		5320	1	24.046	/	Pass
		5500	1	23.535	/	Pass
802.11ac (VHT40)	SISO	5580	1	23.614	/	Pass
		5700	1	24.879	/	Pass
		5190	1	42.608	/	Pass
		5230	1	42.251	/	Pass
		5270	1	43.458	/	Pass
		5310	1	42.978	/	Pass
		5510	1	42.650	/	Pass
		5550	1	41.538	/	Pass
		5670	1	43.278	/	Pass

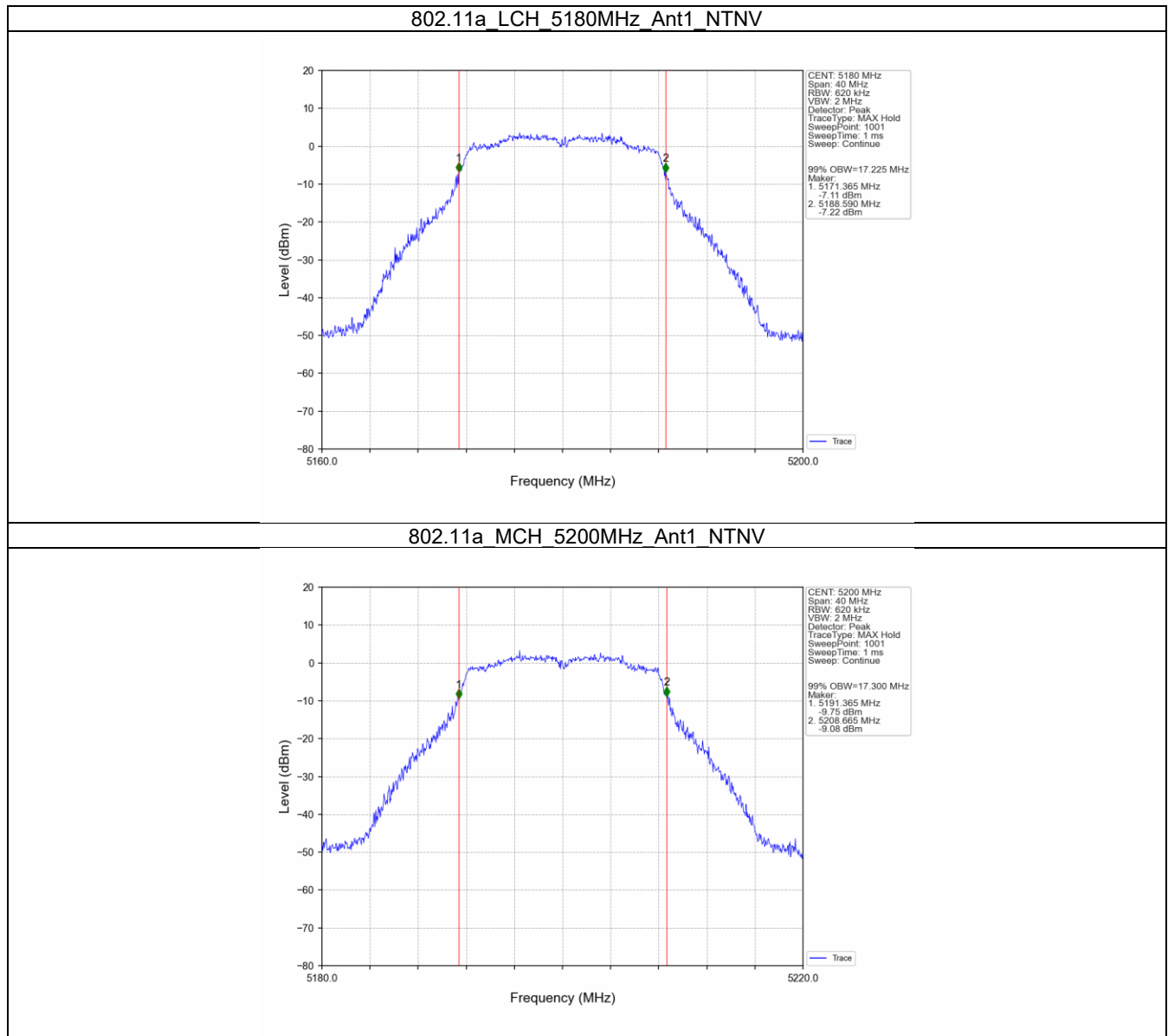
2.1.3 6dB BW

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)	Verdict
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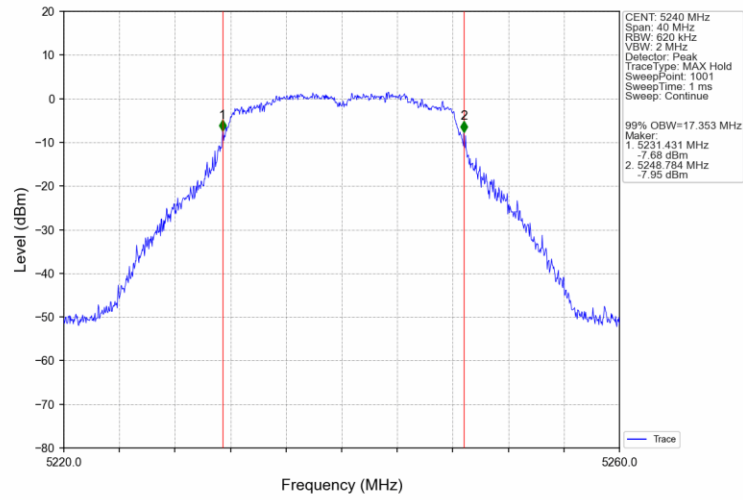
	Type	(MHz)		Result	Limit	
802.11a	SISO	5745	1	15.159	≥ 0.5	Pass
		5785	1	15.157	≥ 0.5	Pass
		5825	1	15.159	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.172	≥ 0.5	Pass
		5785	1	15.157	≥ 0.5	Pass
		5825	1	15.175	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.119	≥ 0.5	Pass
		5795	1	35.115	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.166	≥ 0.5	Pass
		5785	1	15.121	≥ 0.5	Pass
		5825	1	15.155	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.145	≥ 0.5	Pass
		5795	1	35.160	≥ 0.5	Pass

2.2 Test Graph

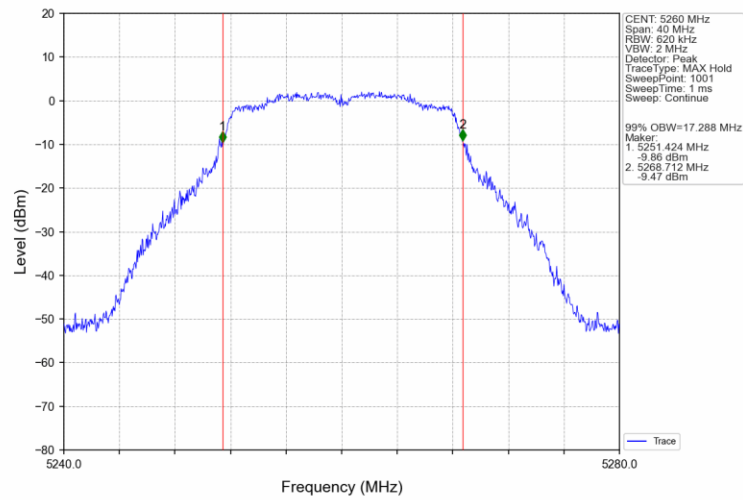
2.2.1 OBW



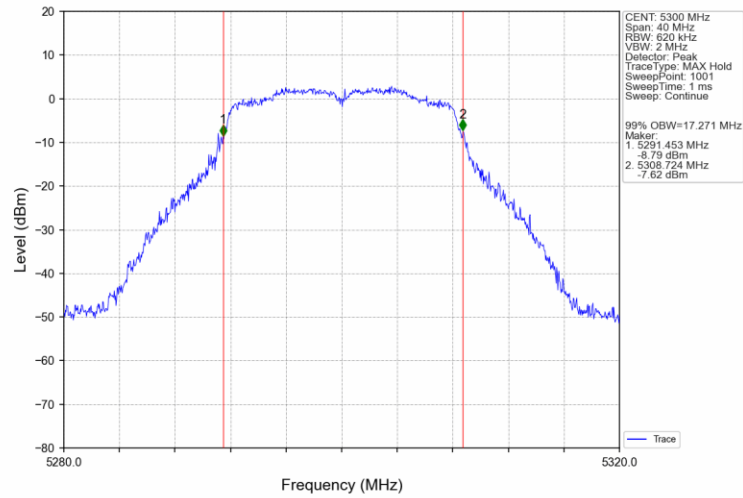
802.11a_HCH_5240MHz_Ant1_NTNV



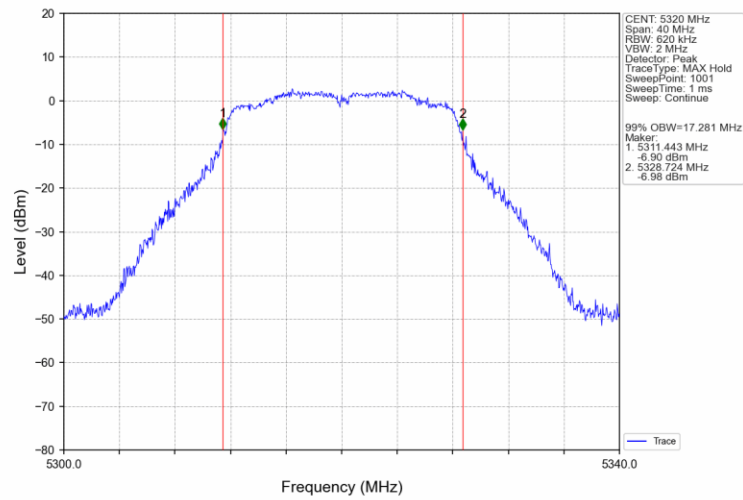
802.11a_LCH_5260MHz_Ant1_NTNV



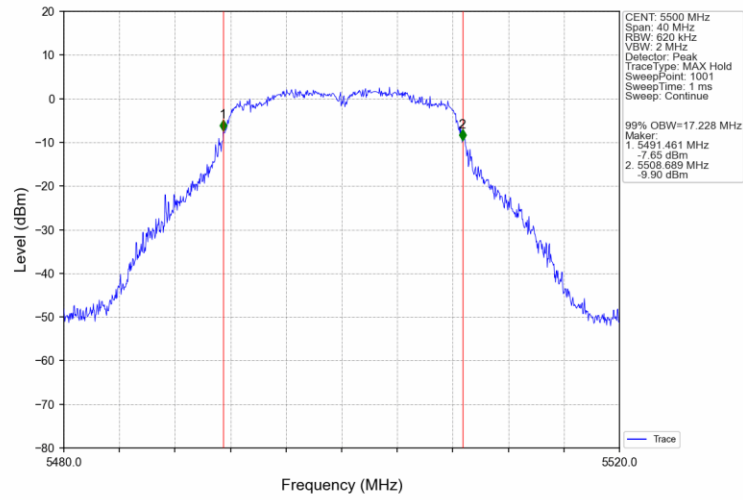
802.11a_MCH_5300MHz_Ant1_NTNV



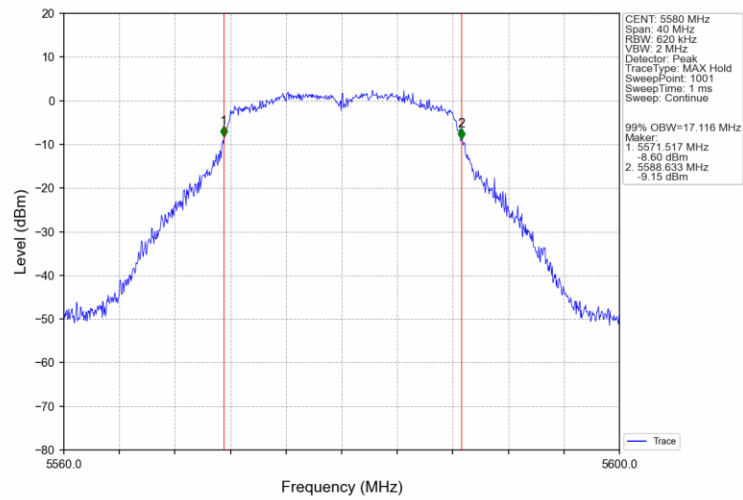
802.11a_HCH_5320MHz_Ant1_NTNV



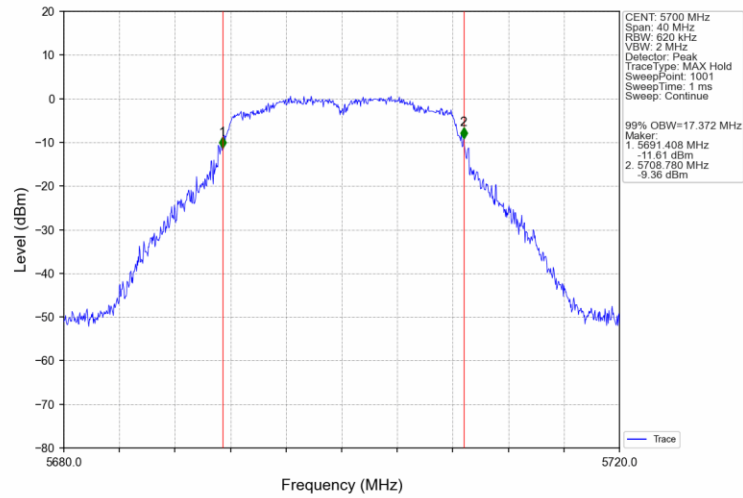
802.11a_LCH_5500MHz_Ant1_NTNV



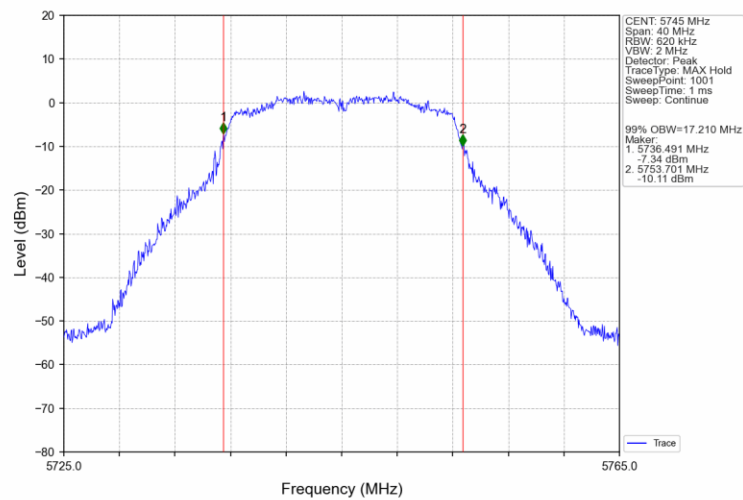
802.11a_MCH_5580MHz_Ant1_NTNV



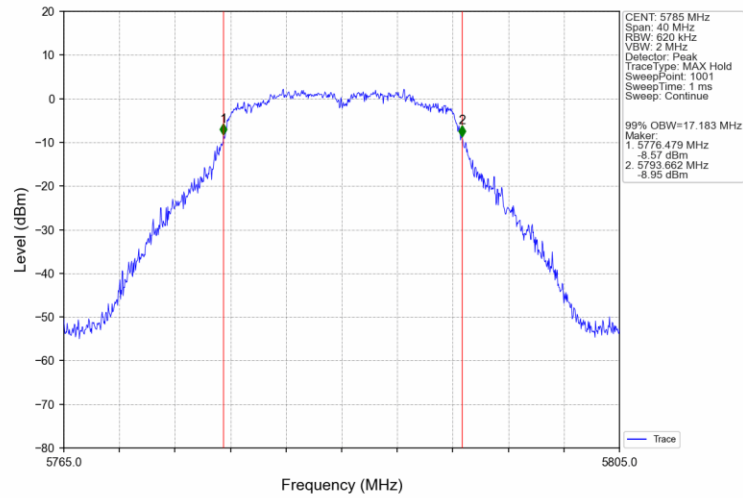
802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV

