

Appendix for KSCR2109000086AT-FCC-5G

Power level setting using in test:

Channel	802.11a		802.11n(HT20)		802.11ac(VHT21)	
	Ant 1	Ant 2	Ant 2	Ant 2	Ant 1	Ant 2
36	Default	Default	Default	Default	Default	Default
40	Default	Default	Default	Default	Default	Default
48	Default	Default	Default	Default	Default	Default
52	Default	Default	Default	Default	Default	Default
60	Default	Default	Default	Default	Default	Default
64	Default	Default	Default	Default	Default	Default
100	Default	Default	Default	Default	Default	Default
116	Default	Default	Default	Default	Default	Default
140	Default	Default	Default	Default	Default	Default
144	Default	Default	Default	Default	Default	Default
149	Default	Default	Default	Default	Default	Default
157	Default	Default	Default	Default	Default	Default
165	Default	Default	Default	Default	Default	Default
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	Default	Default	Default	Default		
46	Default	Default	Default	Default		
54	Default	Default	Default	Default		
62	Default	Default	Default	Default		
102	Default	Default	Default	Default		
110	Default	Default	Default	Default		
134	Default	Default	Default	Default		
142	Default	Default	Default	Default		
151	Default	Default	Default	Default		



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159	Default	Default	Default	Default
Channel	802.11ac(VHT80)			
	Ant 1	Ant 2		
42	Default	Default		
58	Default	Default		
106	Default	Default		
122	Default	Default		
138	Default	Default		
155	Default	Default		

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

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	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5260	100.000	100.000	100.00	0.00	0.00
		5300	100.000	100.000	100.00	0.00	0.00
		5320	100.000	100.000	100.00	0.00	0.00
		5500	100.000	100.000	100.00	0.00	0.00
		5580	100.000	100.000	100.00	0.00	0.00
		5700	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	MIMO	5720	100.000	100.000	100.00	0.00	0.00
		5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5260	100.000	100.000	100.00	0.00	0.00
		5300	100.000	100.000	100.00	0.00	0.00
		5320	100.000	100.000	100.00	0.00	0.00
		5500	100.000	100.000	100.00	0.00	0.00
		5580	100.000	100.000	100.00	0.00	0.00
		5700	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00



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		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
		5720	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	MIMO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
		5270	100.000	100.000	100.00	0.00	0.00
		5310	100.000	100.000	100.00	0.00	0.00
		5510	100.000	100.000	100.00	0.00	0.00
		5550	100.000	100.000	100.00	0.00	0.00
		5670	100.000	100.000	100.00	0.00	0.00
		5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
		5710	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT20)	MIMO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5260	100.000	100.000	100.00	0.00	0.00
		5300	100.000	100.000	100.00	0.00	0.00
		5320	100.000	100.000	100.00	0.00	0.00
		5500	100.000	100.000	100.00	0.00	0.00
		5580	100.000	100.000	100.00	0.00	0.00
		5700	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT40)	MIMO	5720	100.000	100.000	100.00	0.00	0.00
		5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
		5270	100.000	100.000	100.00	0.00	0.00
		5310	100.000	100.000	100.00	0.00	0.00
		5510	100.000	100.000	100.00	0.00	0.00
		5550	100.000	100.000	100.00	0.00	0.00
		5670	100.000	100.000	100.00	0.00	0.00
		5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT80)	MIMO	5710	100.000	100.000	100.00	0.00	0.00
		5210	100.000	100.000	100.00	0.00	0.00
		5290	100.000	100.000	100.00	0.00	0.00
		5530	100.000	100.000	100.00	0.00	0.00
		5610	100.000	100.000	100.00	0.00	0.00
		5775	100.000	100.000	100.00	0.00	0.00
		5690	100.000	100.000	100.00	0.00	0.00



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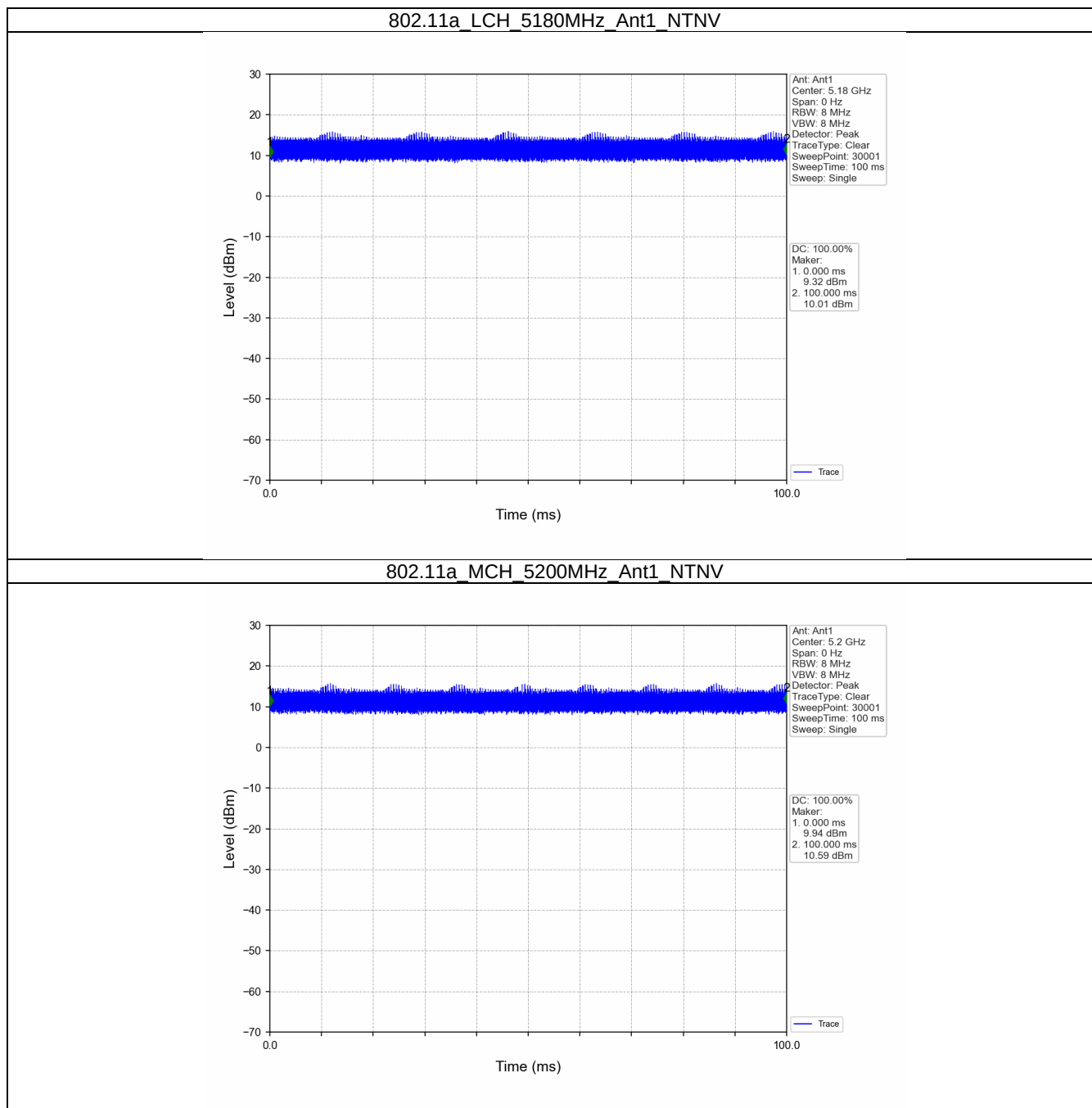
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1.1.2 Test Graph



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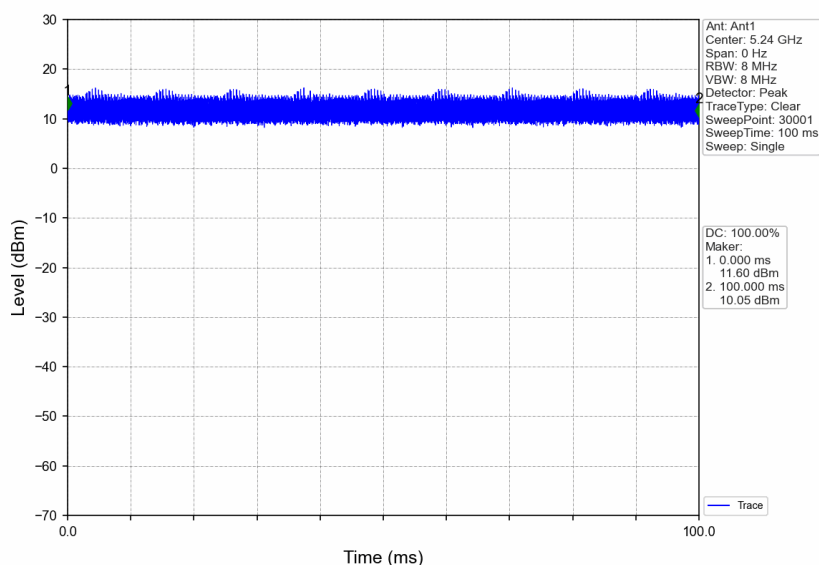
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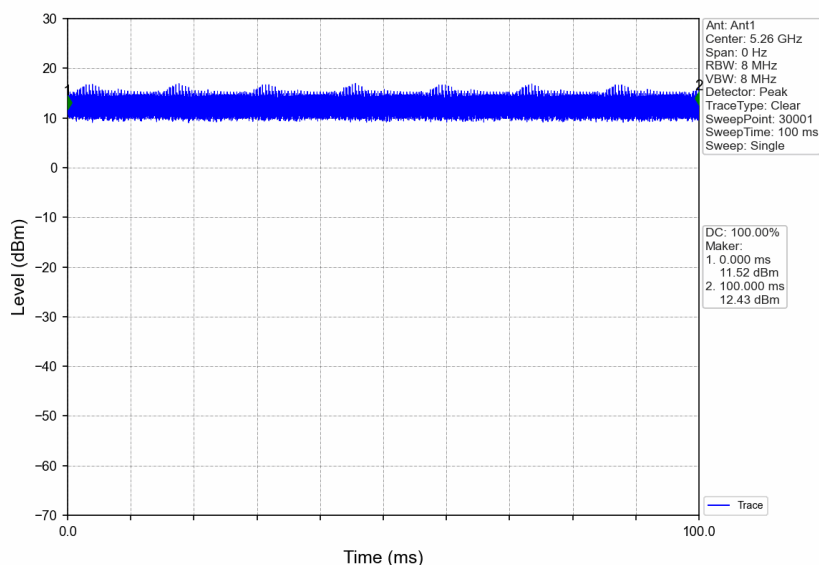
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



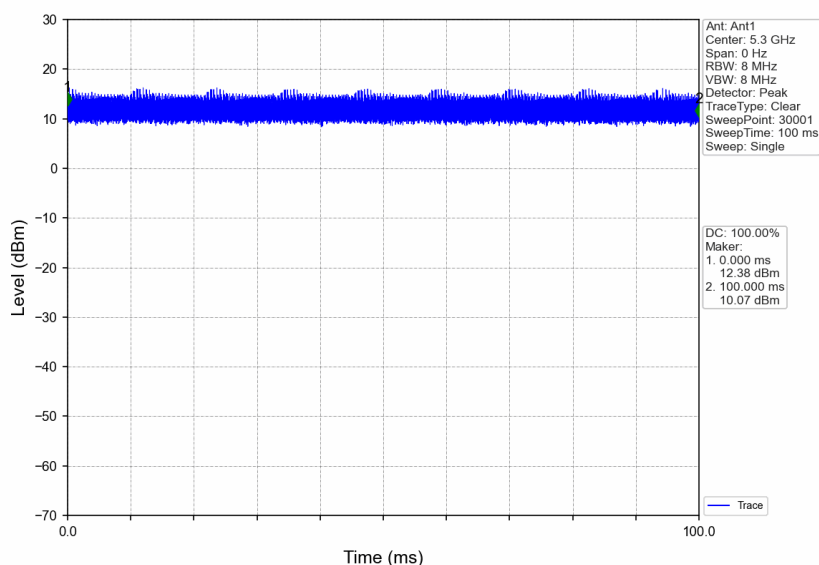
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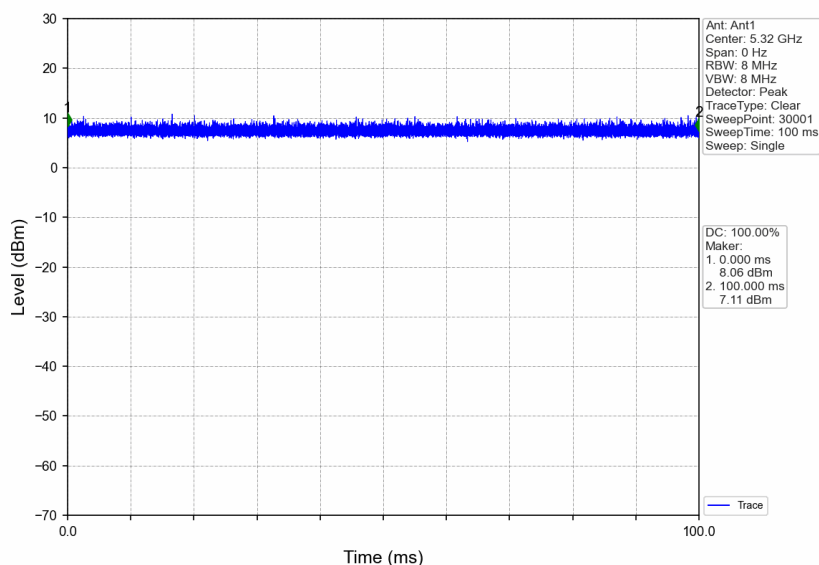
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802.11a_HCH_5320MHz_Ant1_NTNV



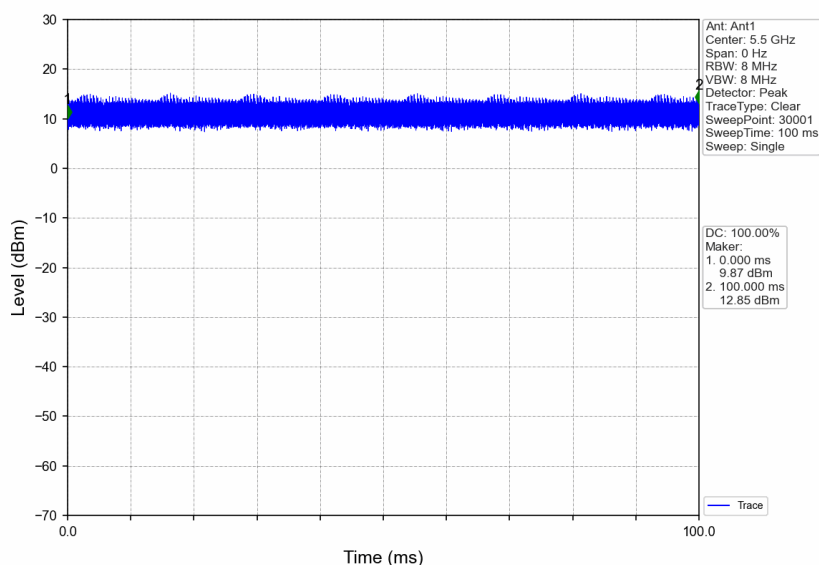
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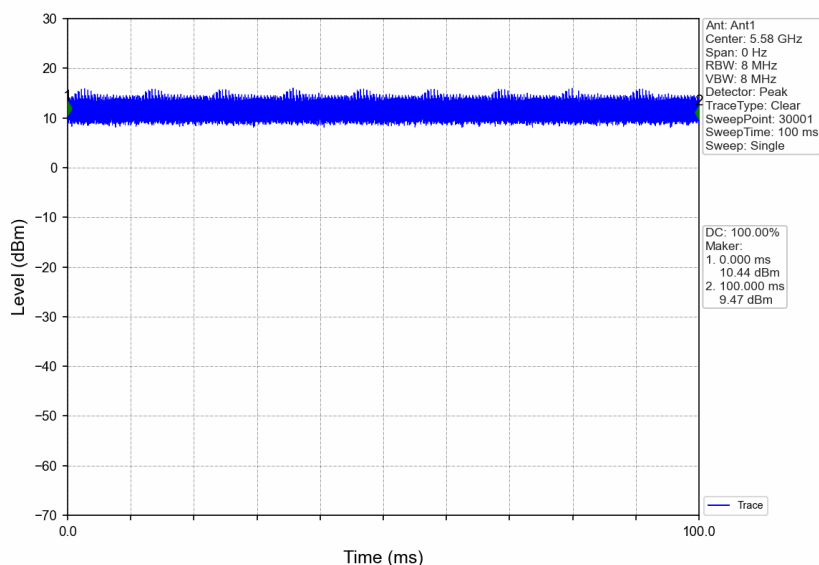
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802.11a_MCH_5580MHz_Ant1_NTNV



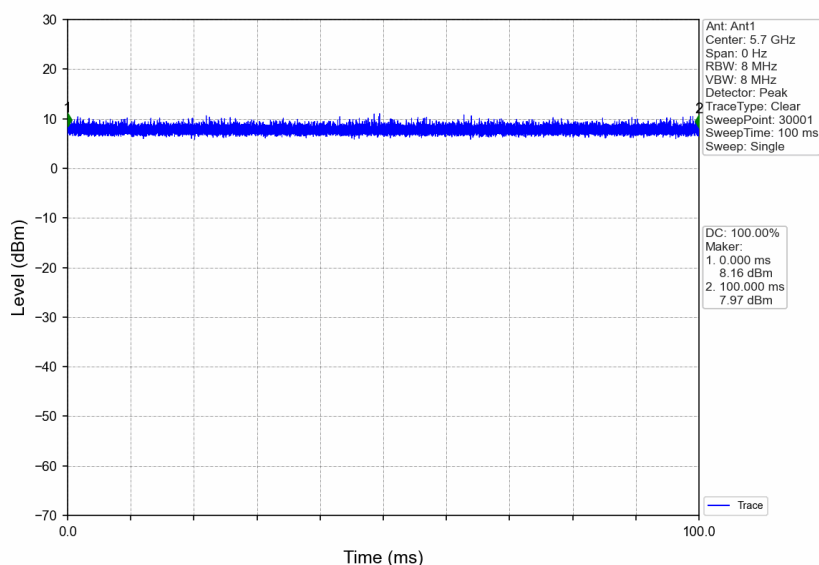
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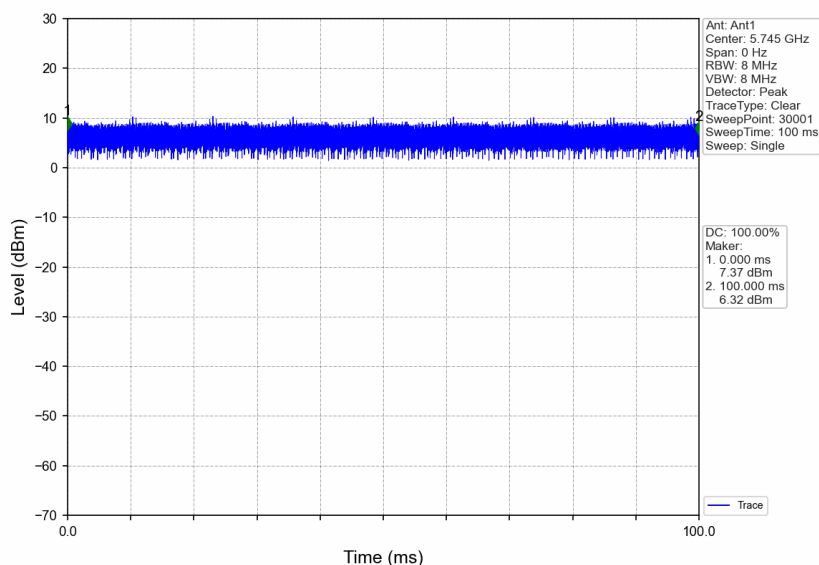
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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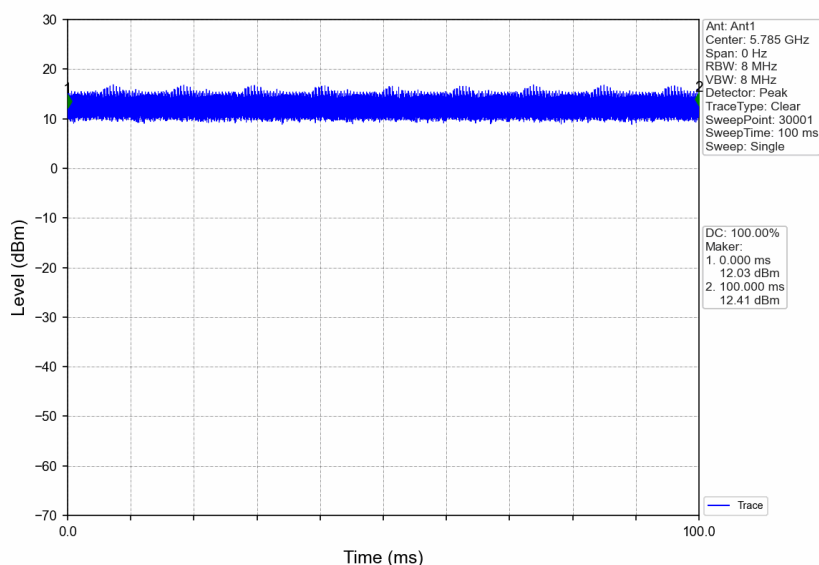
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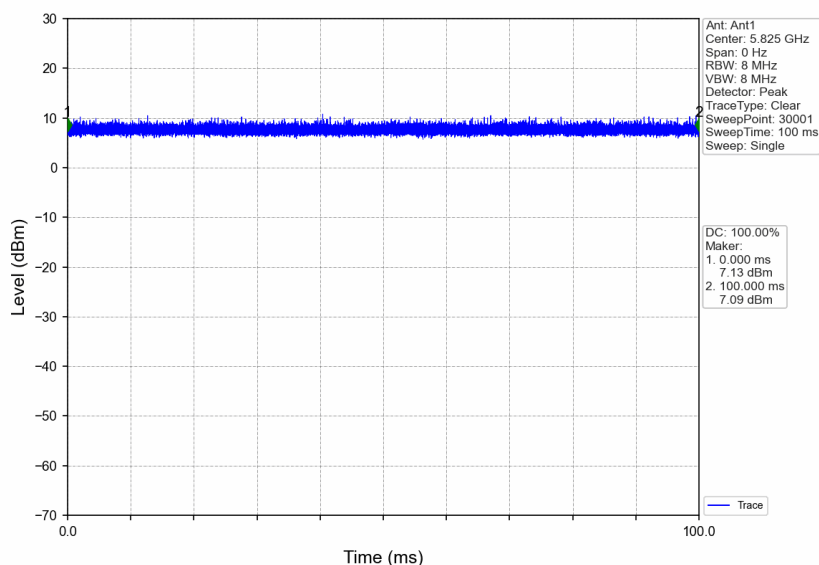
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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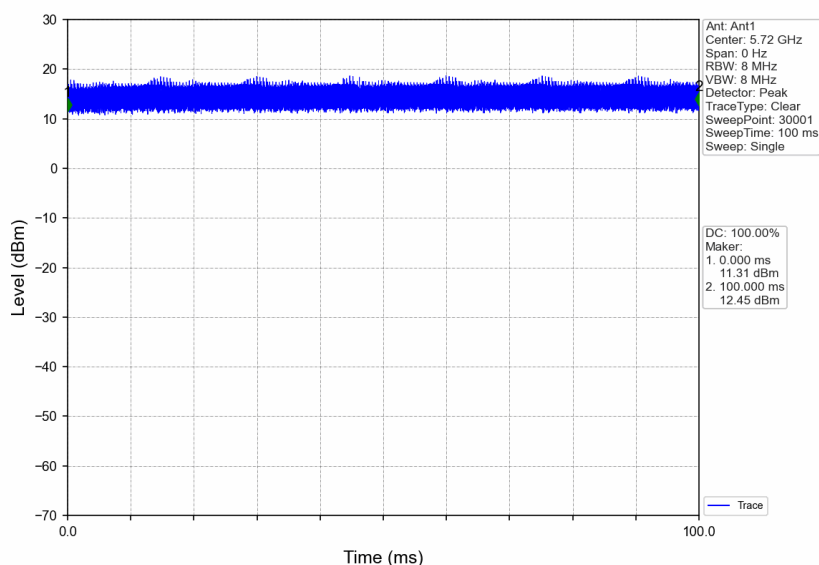
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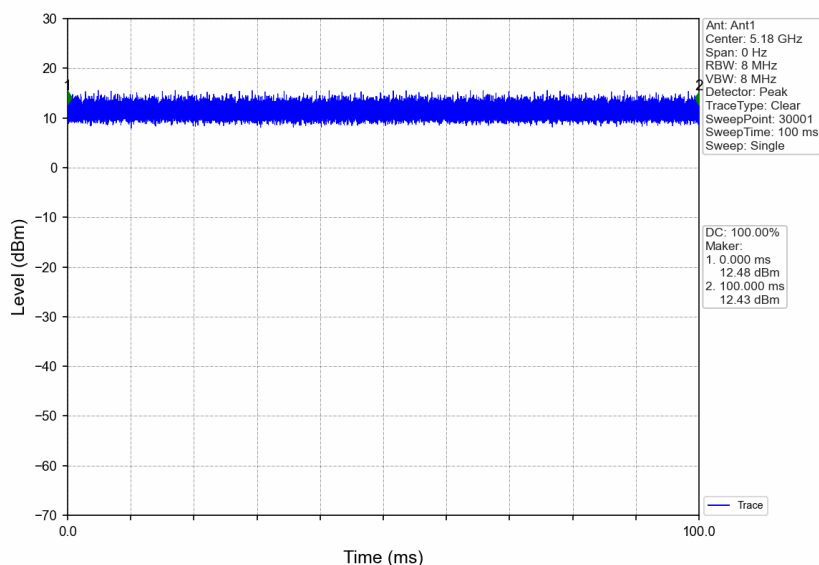
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802.11a_HCH_5720MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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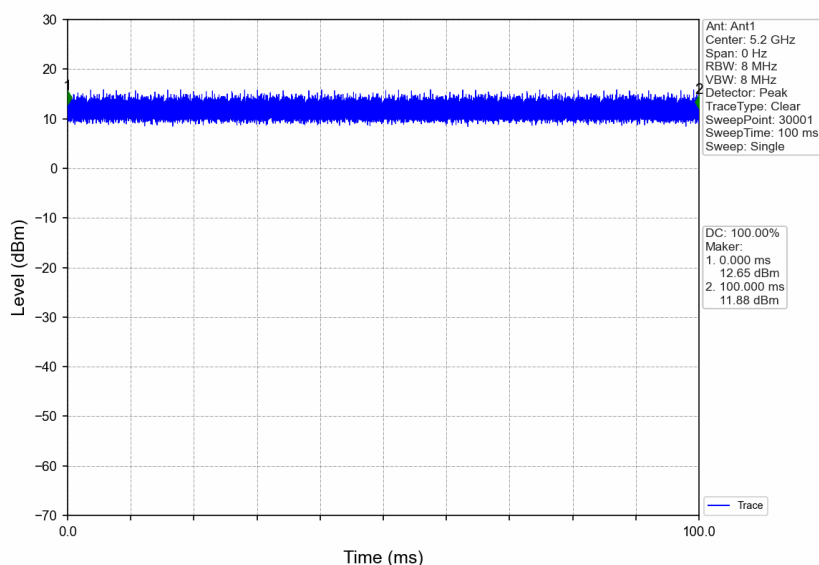
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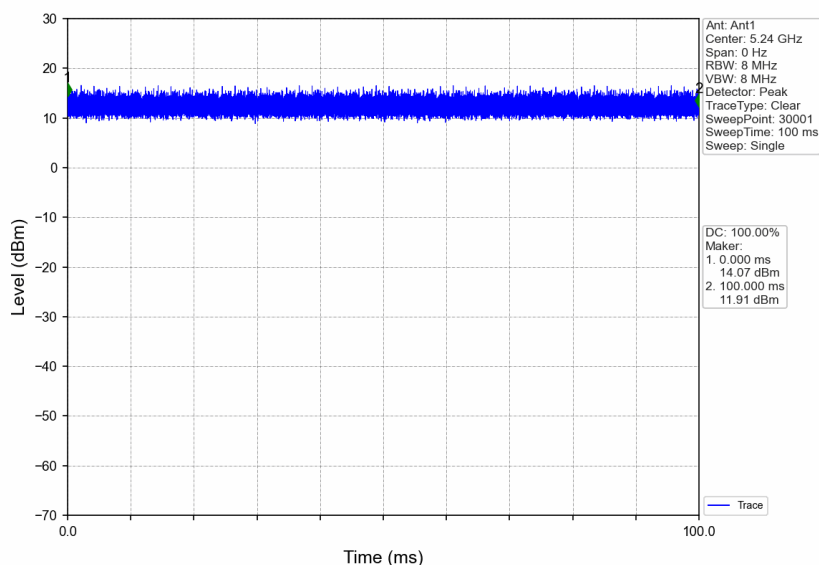
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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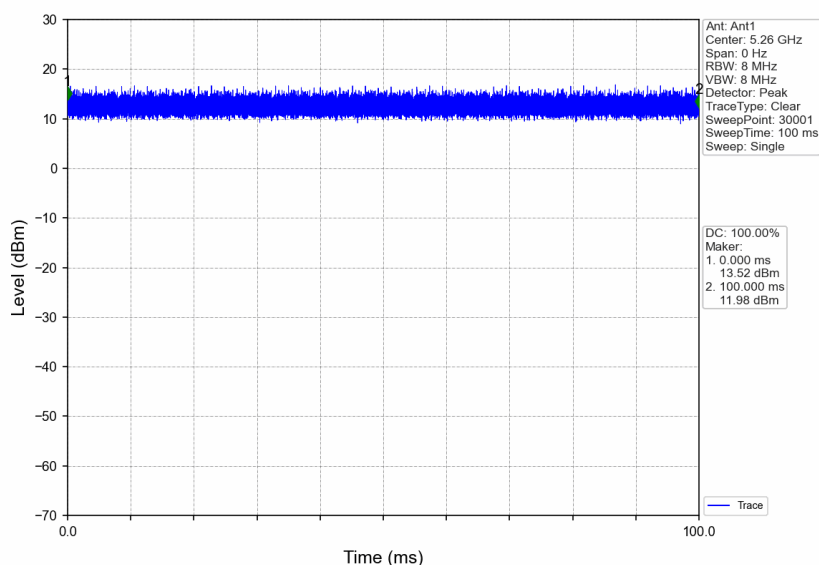
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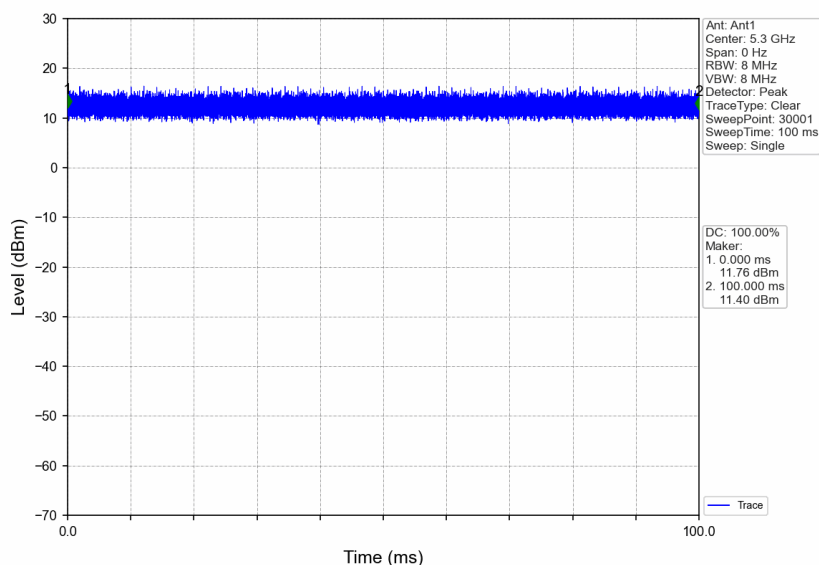
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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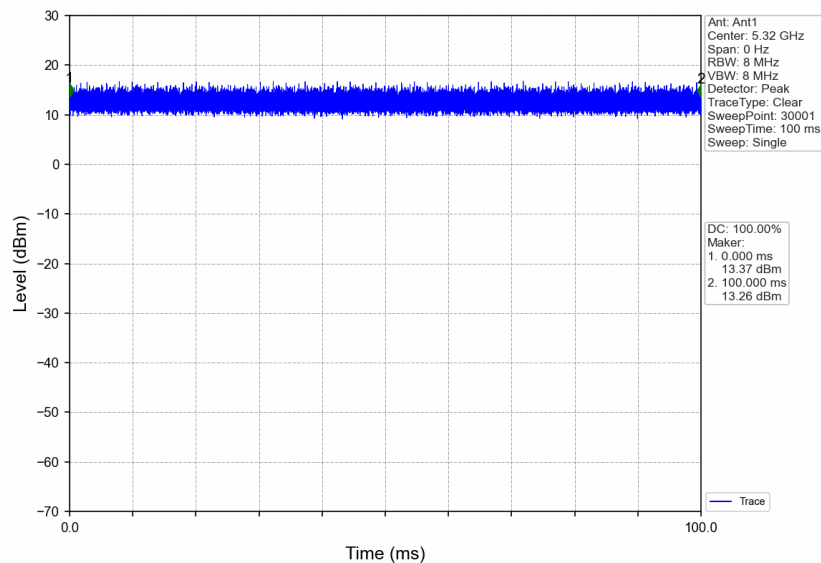
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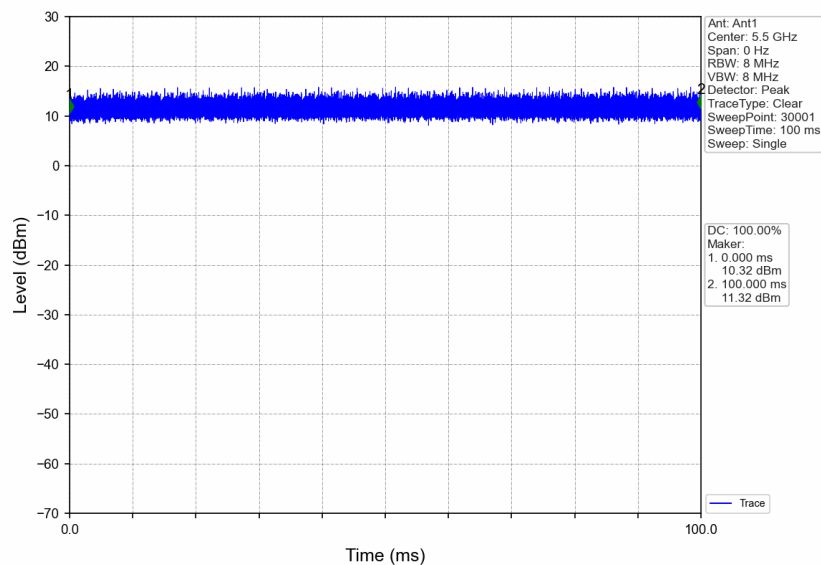
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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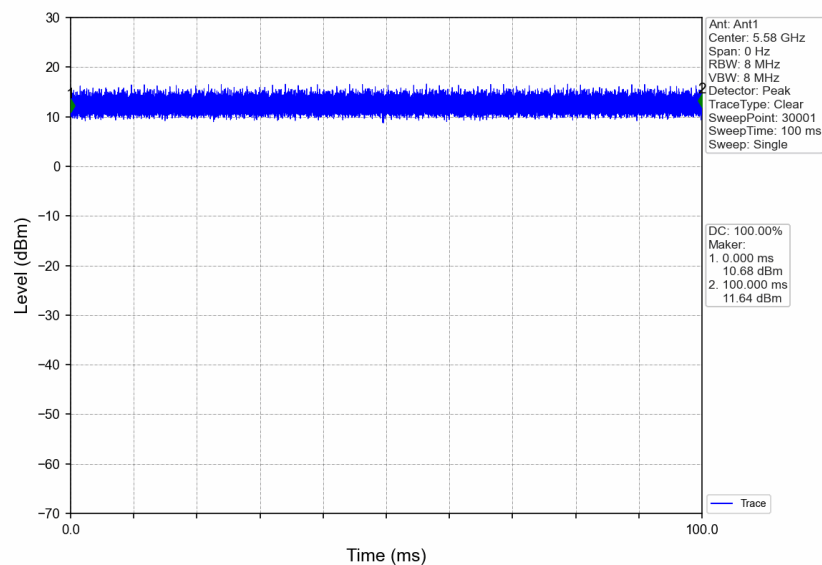
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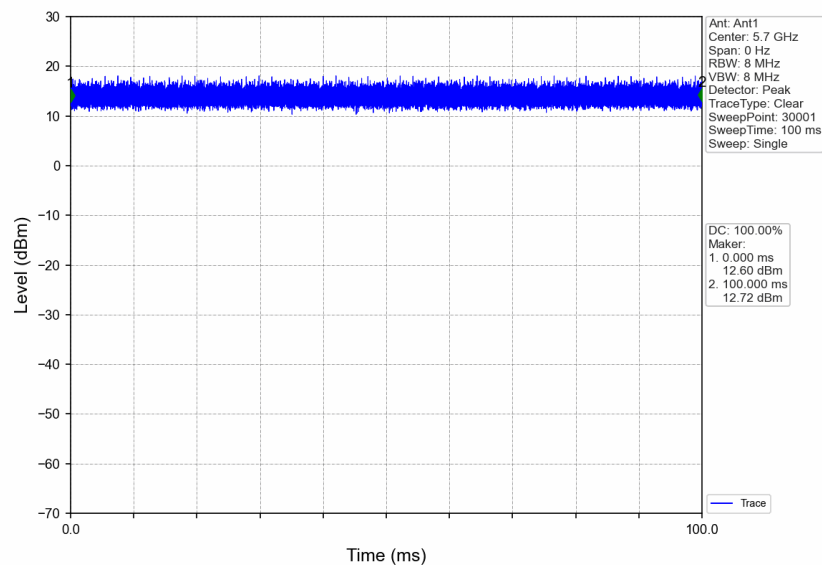
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802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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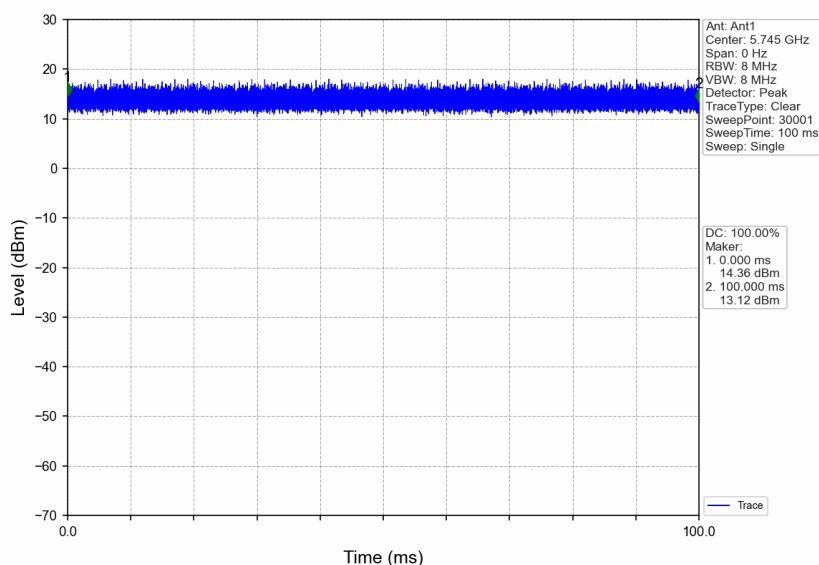
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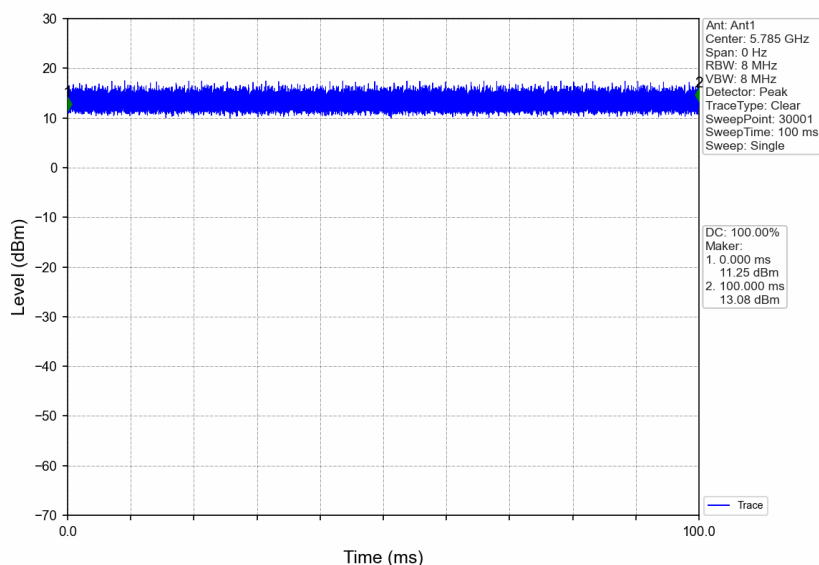
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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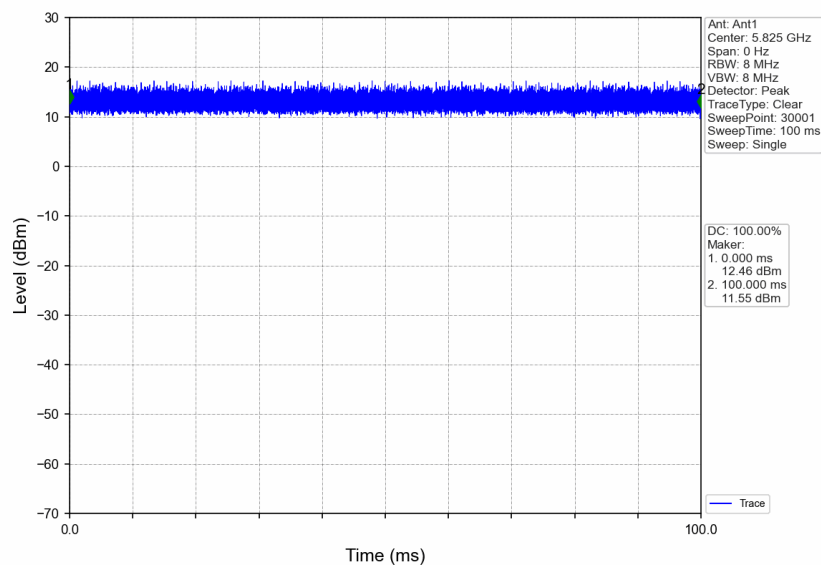
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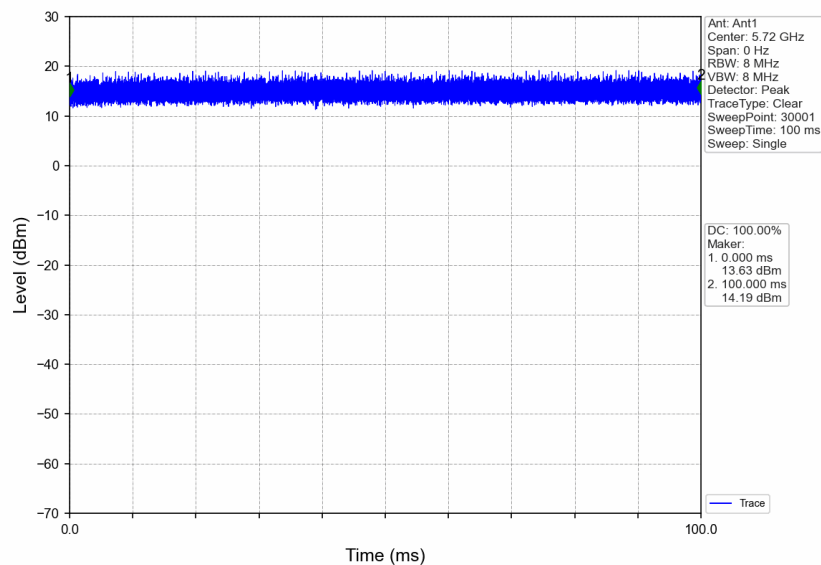
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802.11n(HT20) HCH 5825MHz Ant1 NTV



802.11n(HT20) HCH 5720MHz Ant1 NTV



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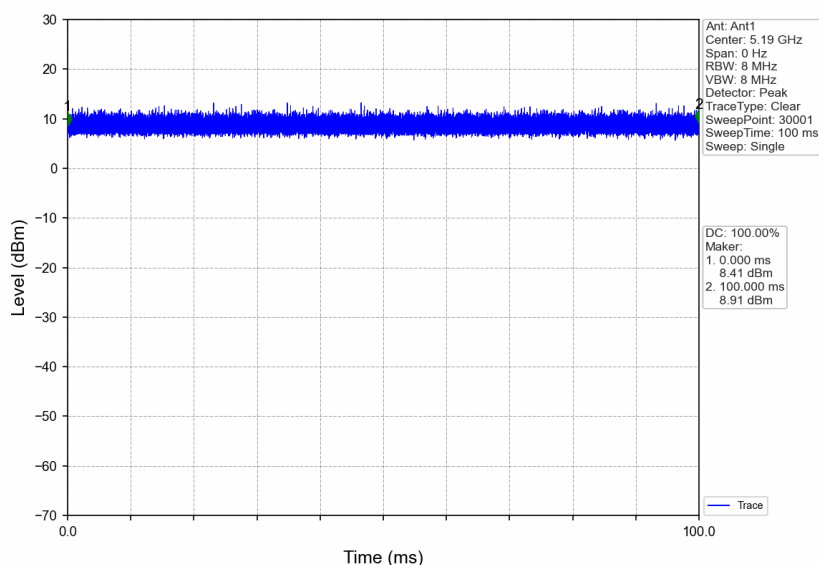
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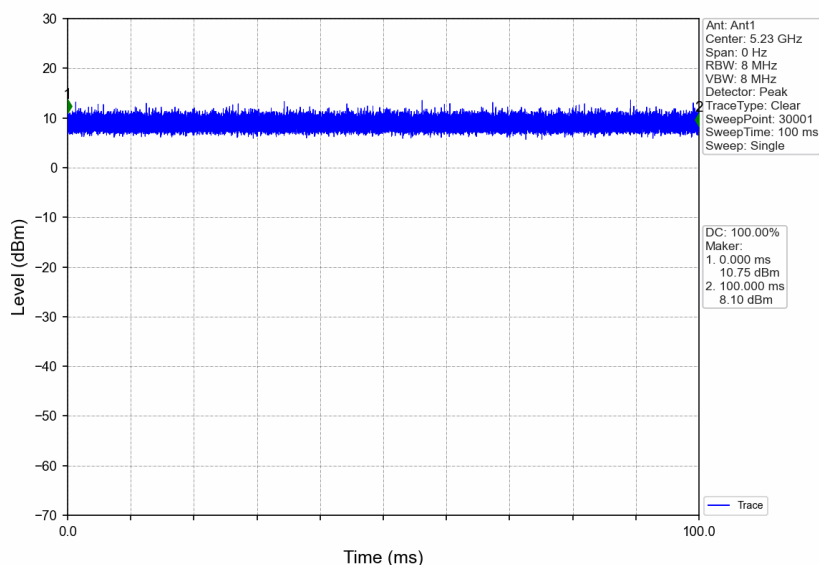
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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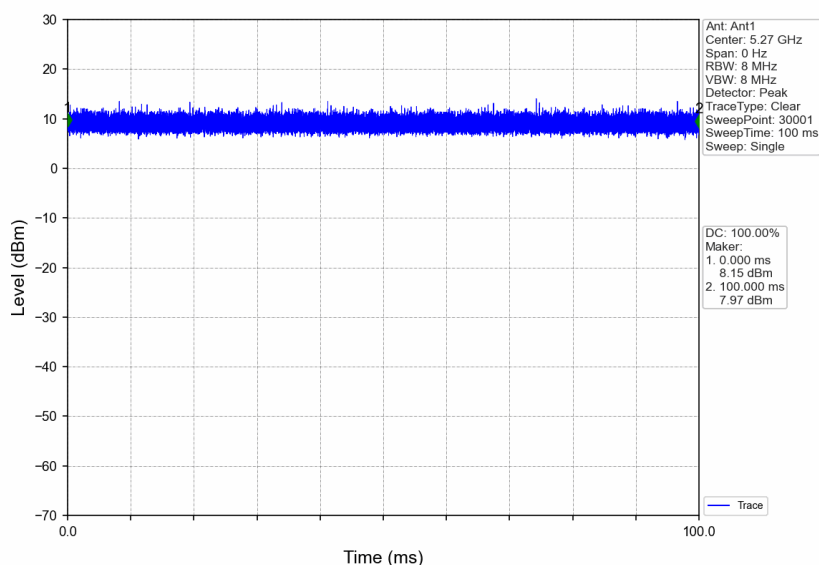
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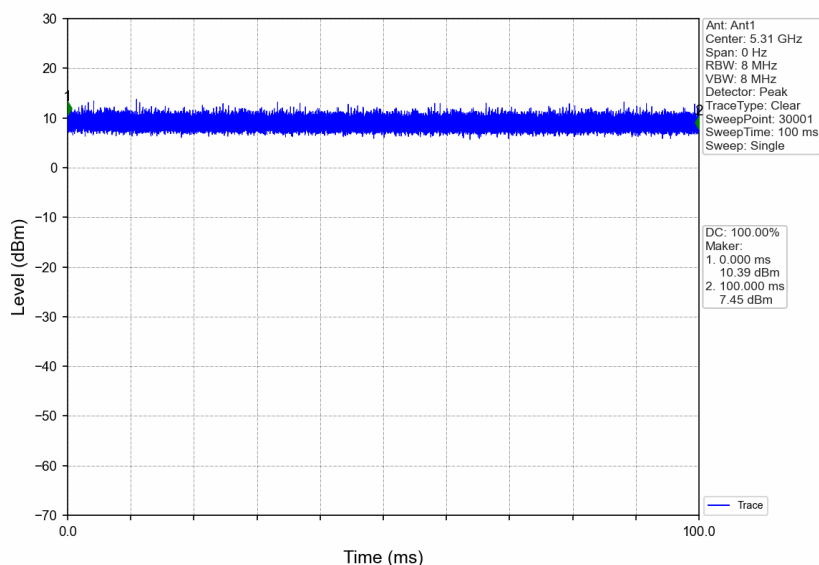
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



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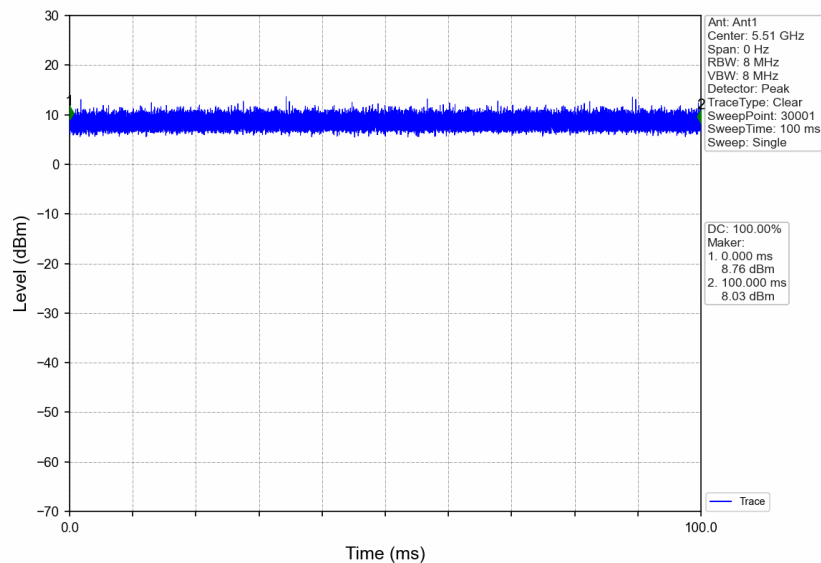
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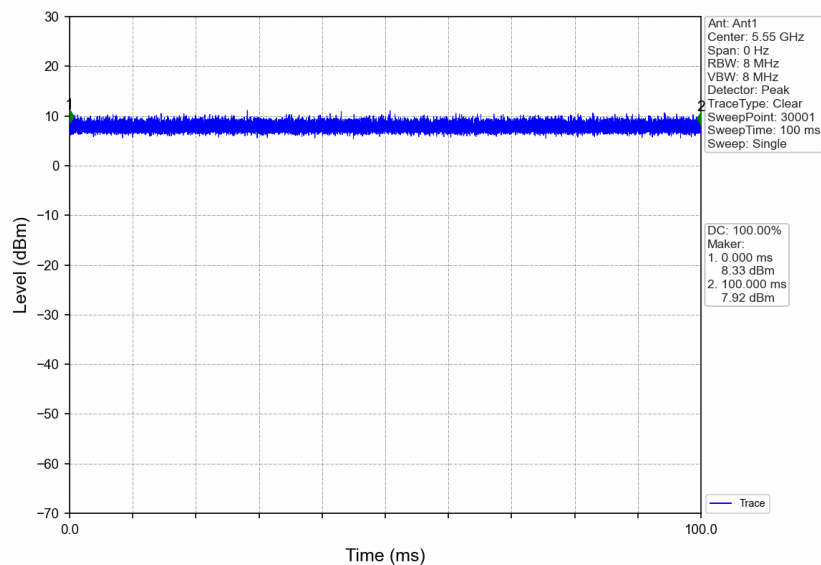
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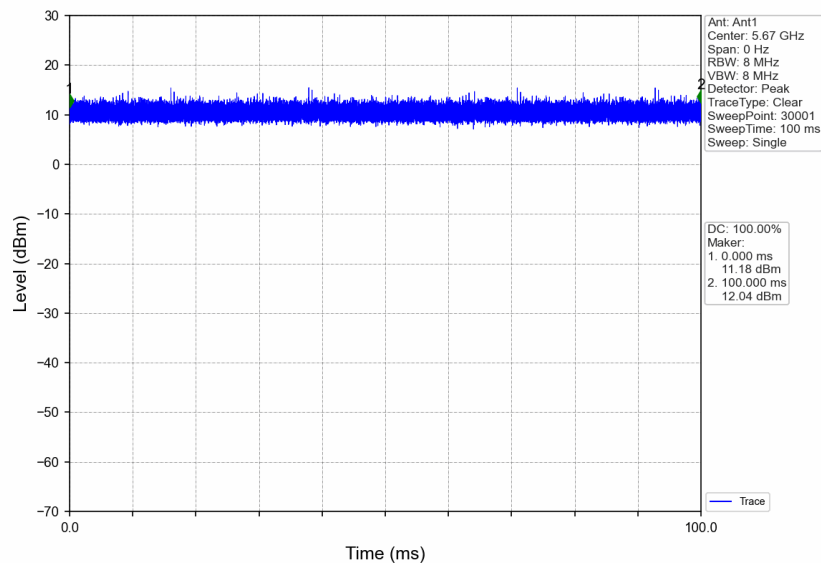
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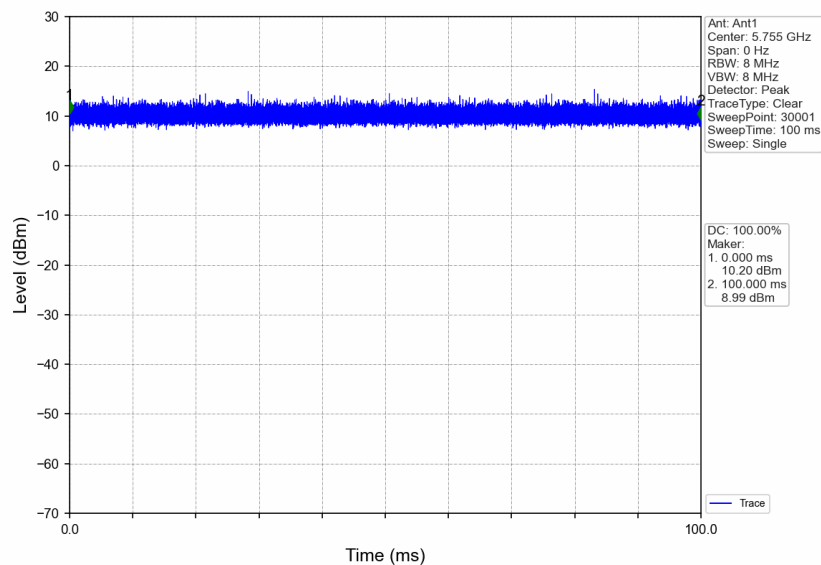
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

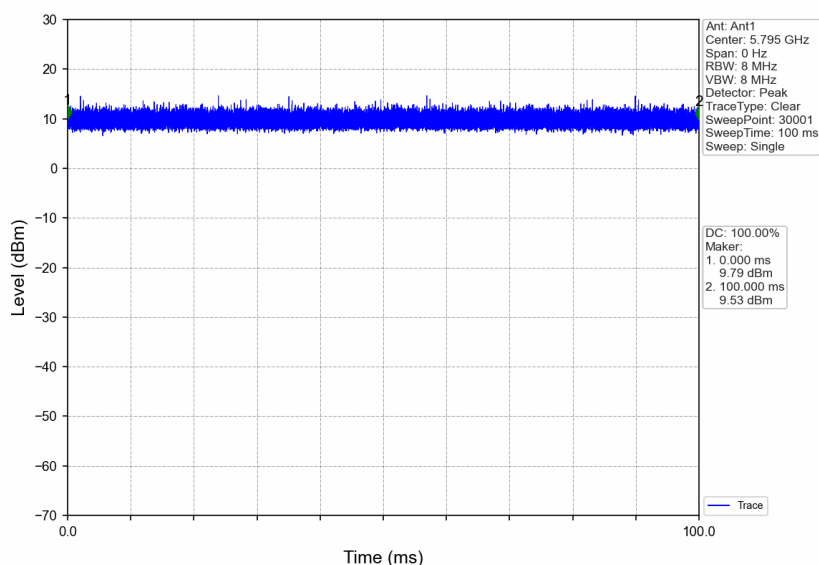


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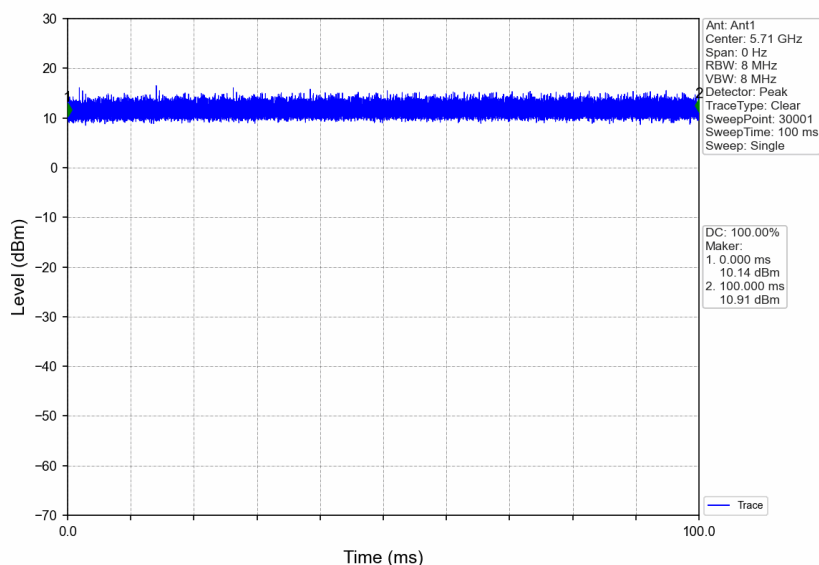
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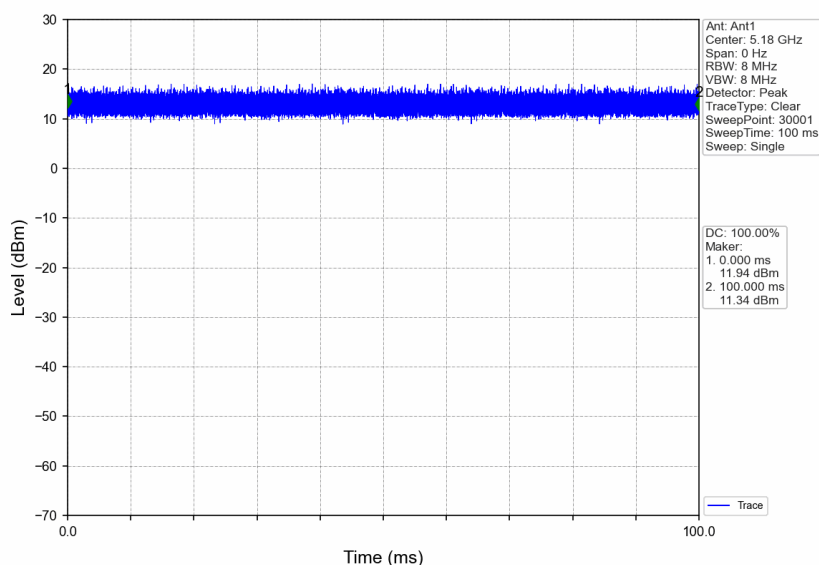
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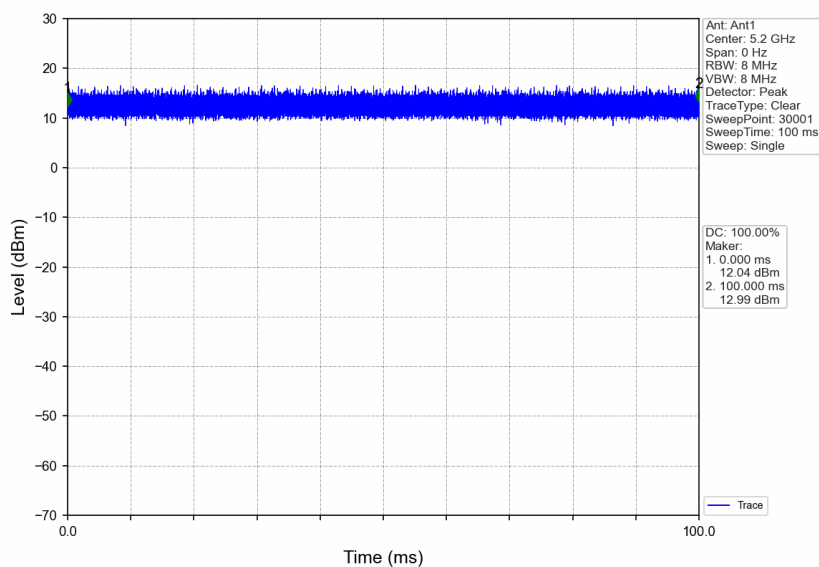
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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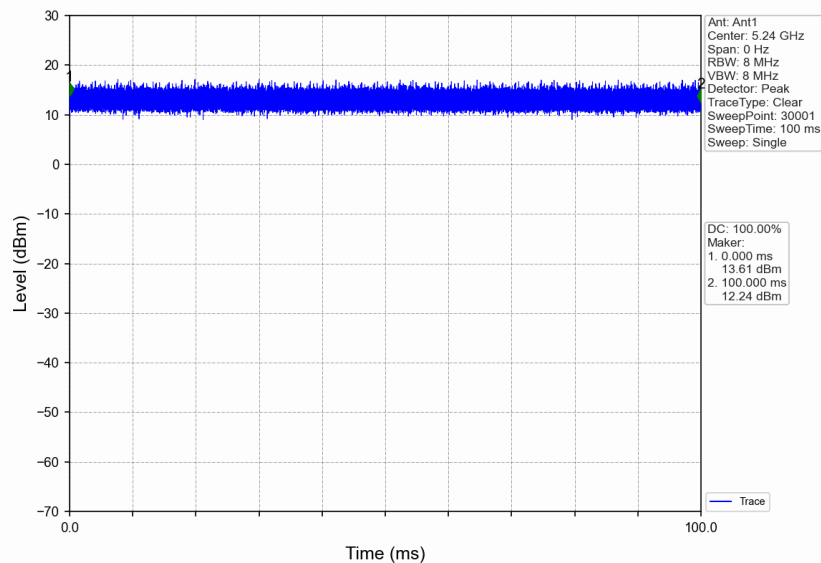
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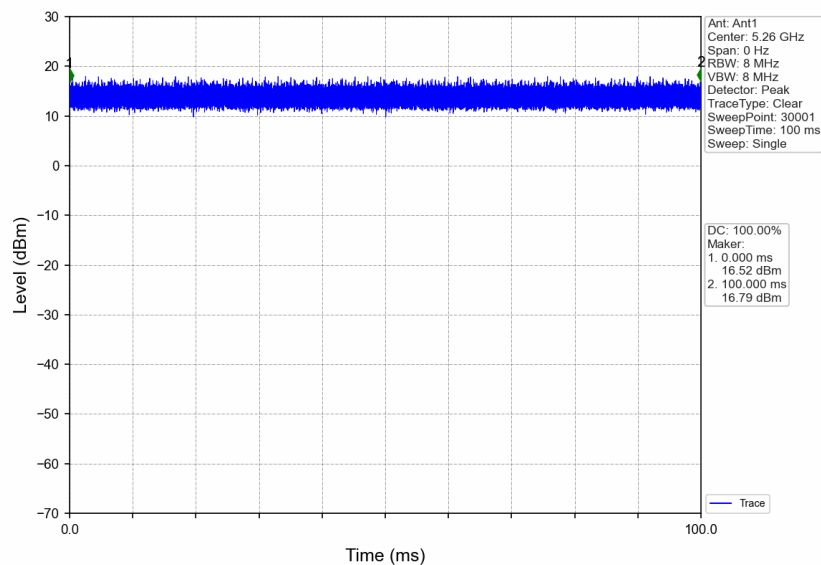
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



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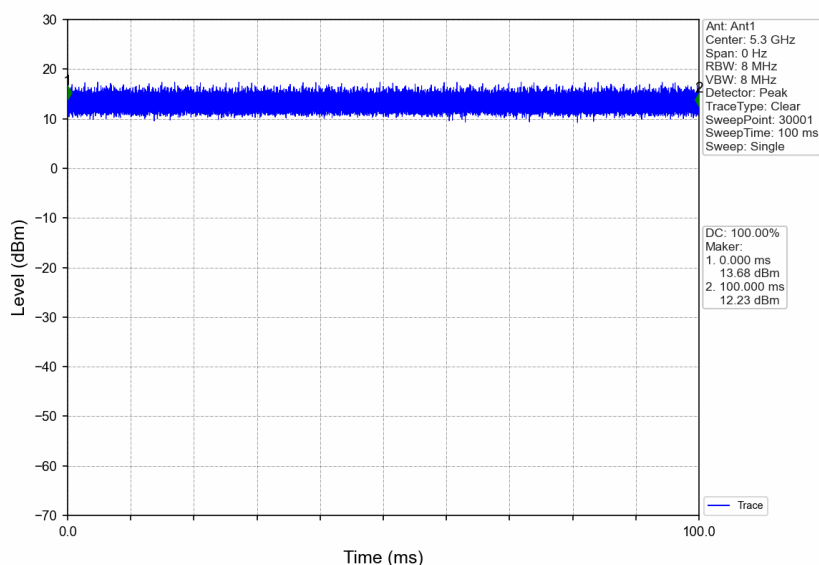
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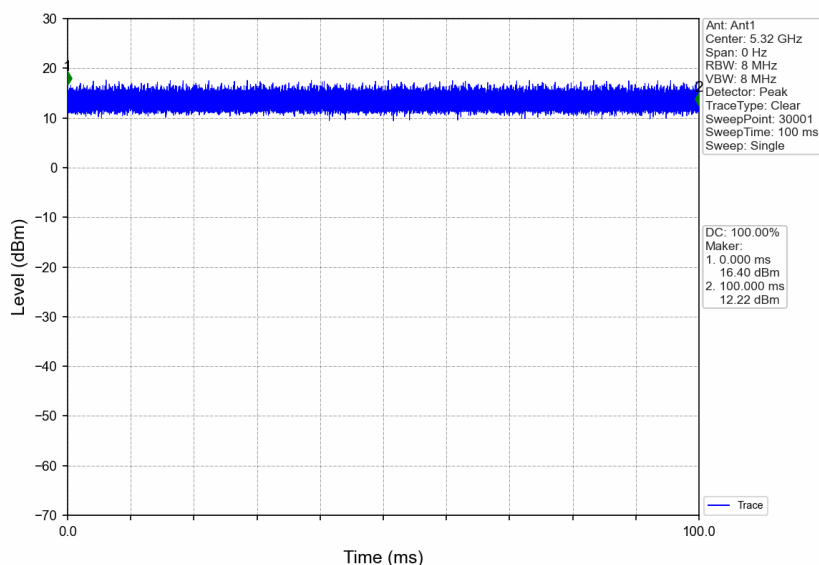
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802.11ac(VHT20) MCH 5300MHz Ant1 NTNV



802.11ac(VHT20) HCH 5320MHz Ant1 NTNV



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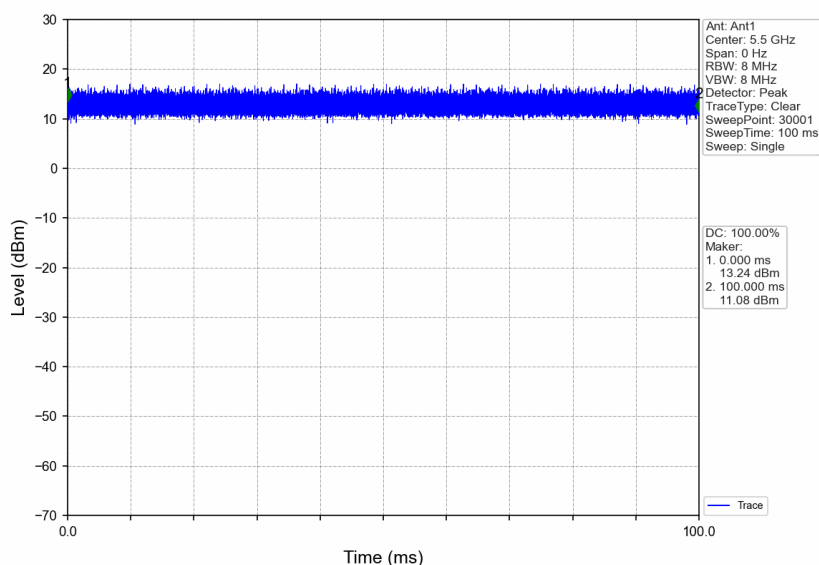
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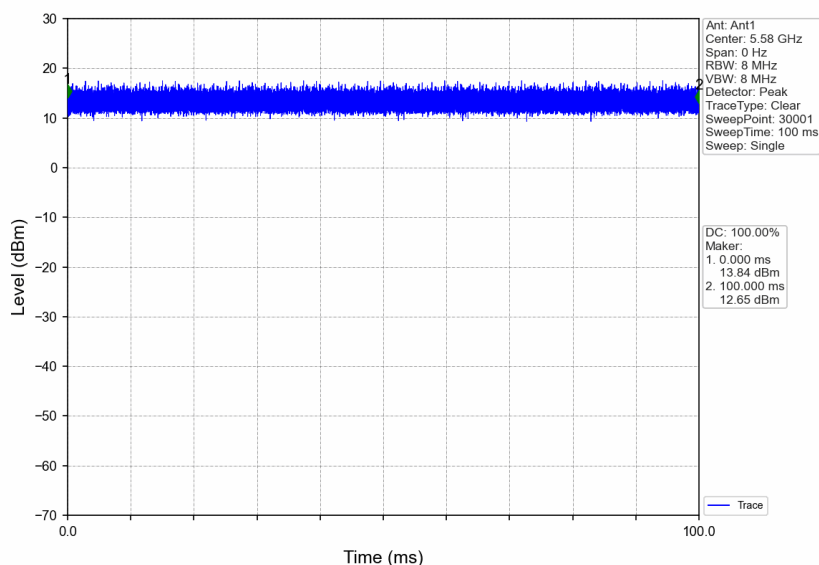
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



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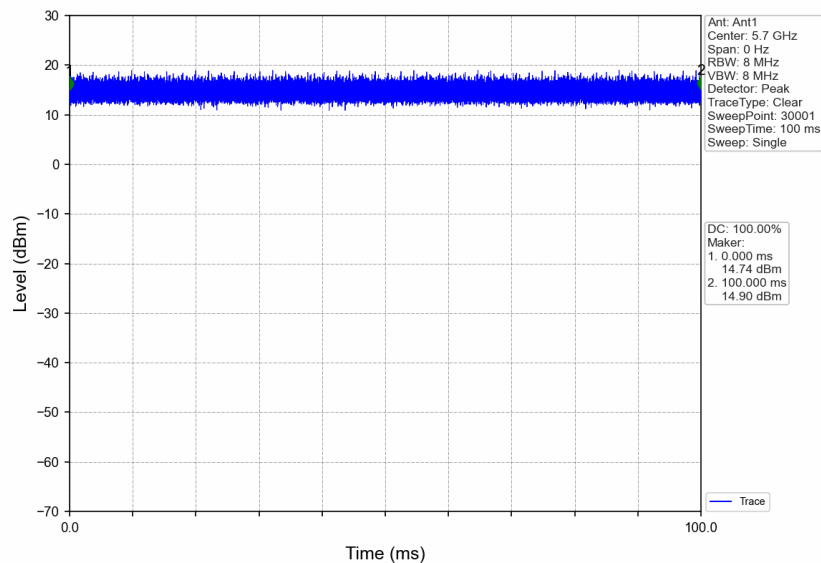
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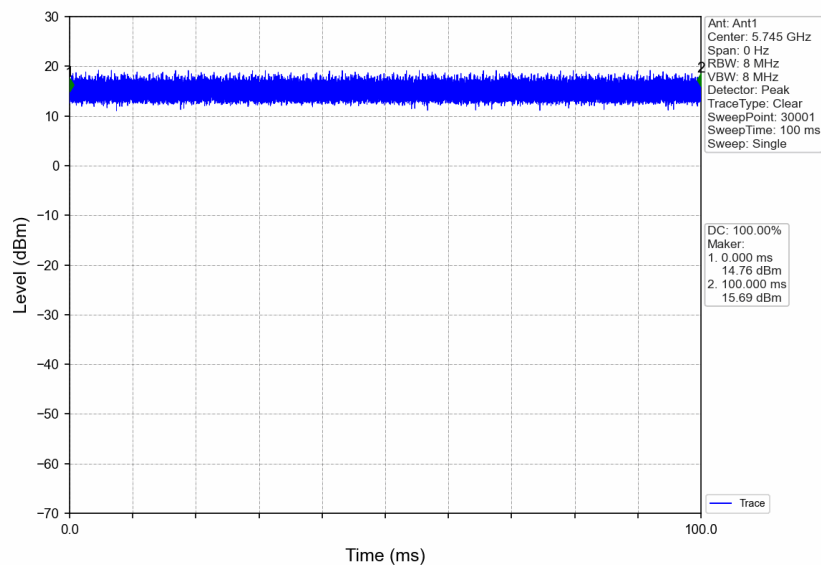
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

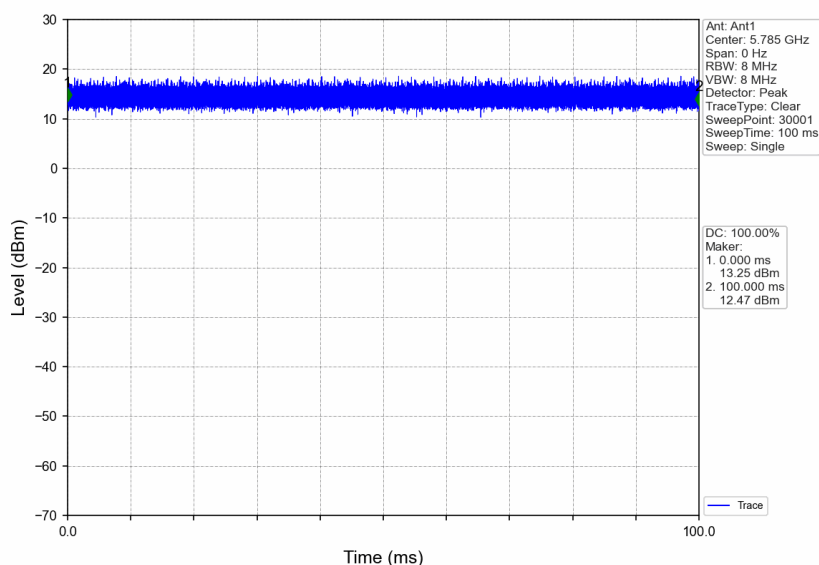


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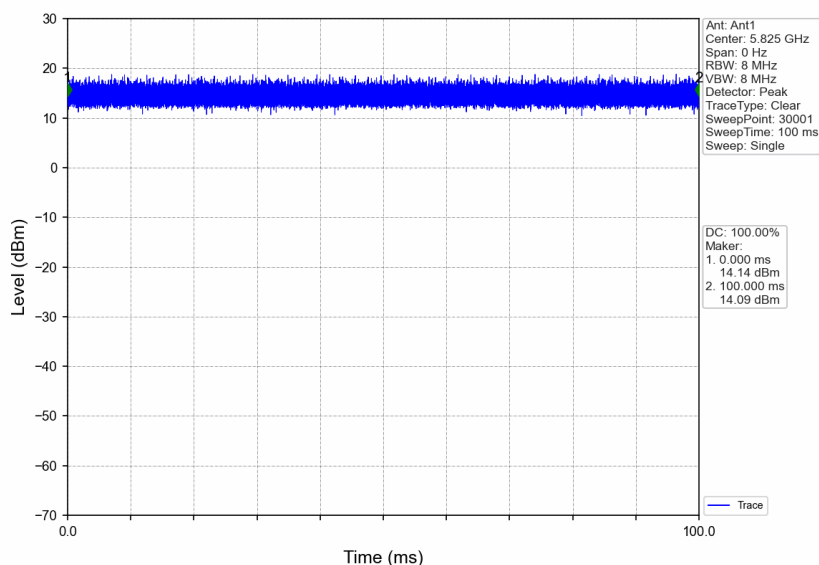
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802.11ac(VHT20) MCH 5785MHz Ant1 NTN



802.11ac(VHT20) HCH 5825MHz Ant1 NTN



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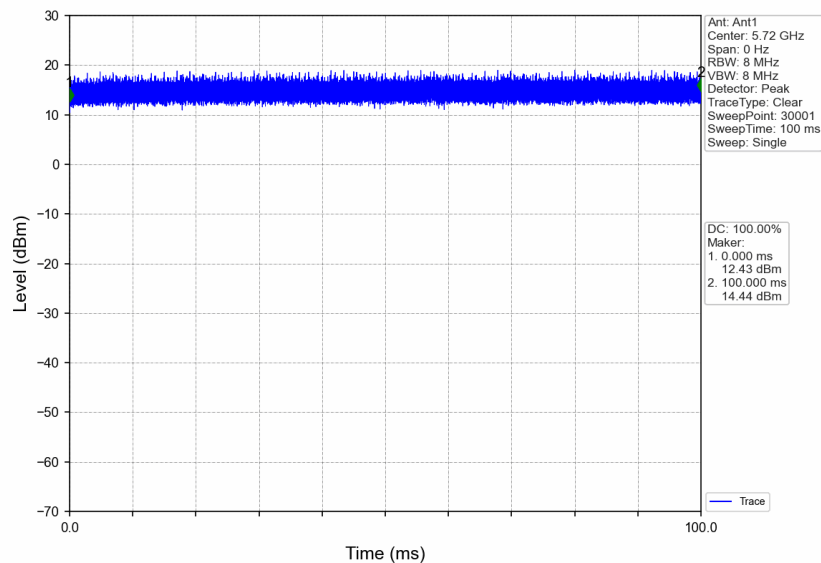
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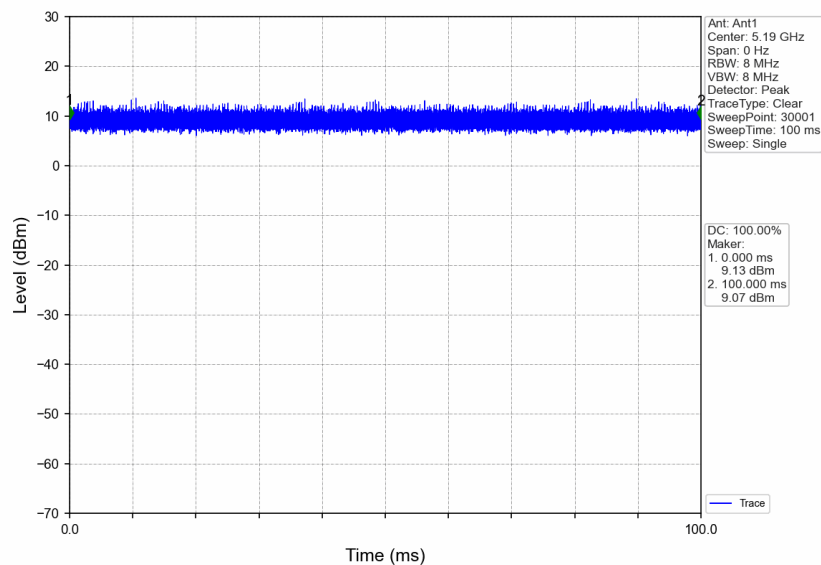
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802.11ac(VHT20)_HCH_5720MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

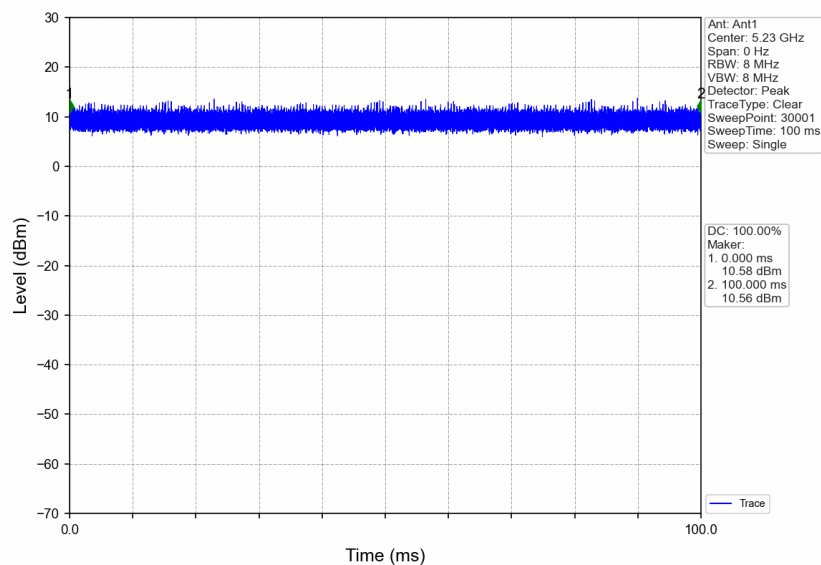


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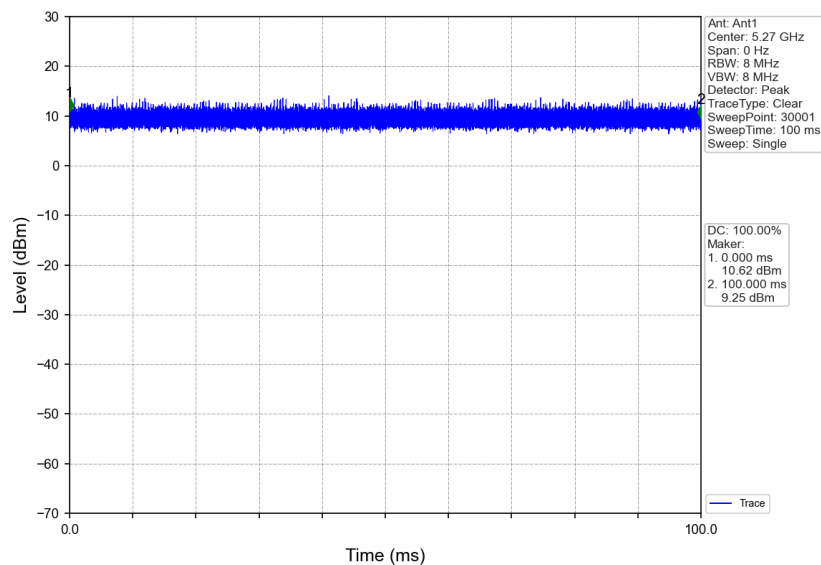
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



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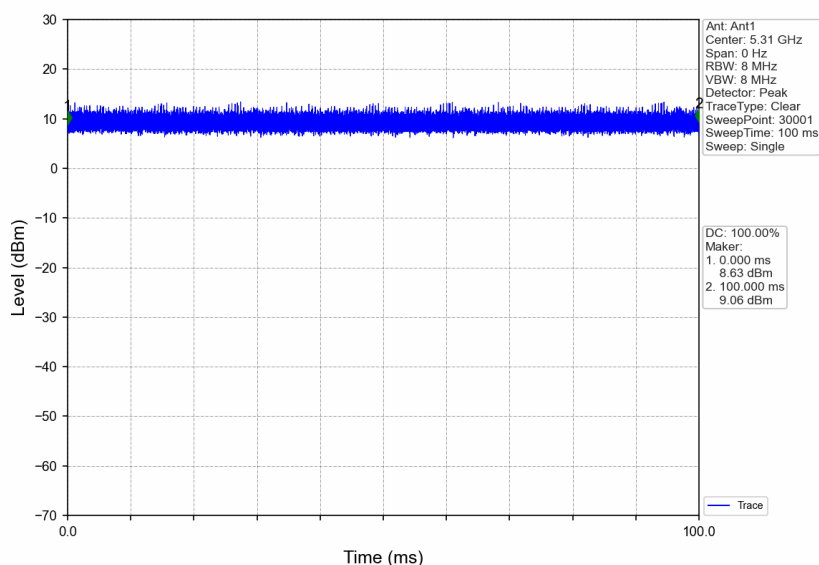
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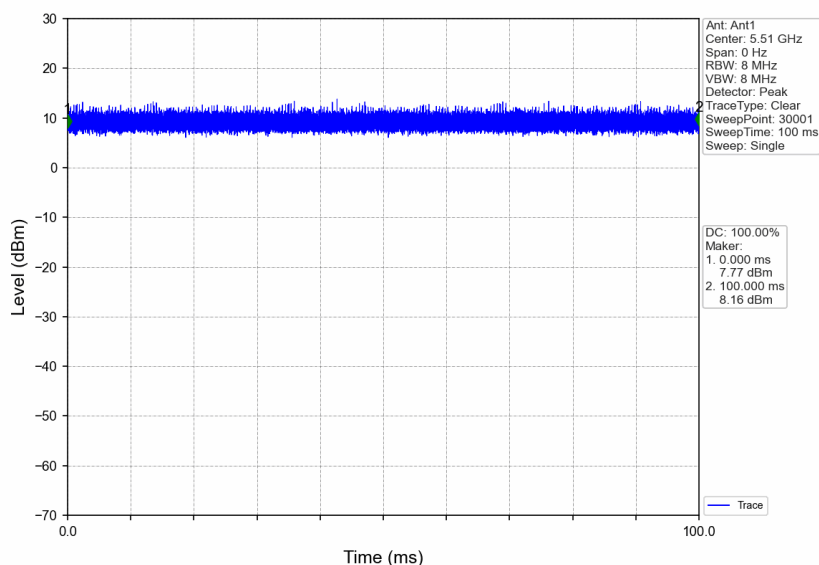
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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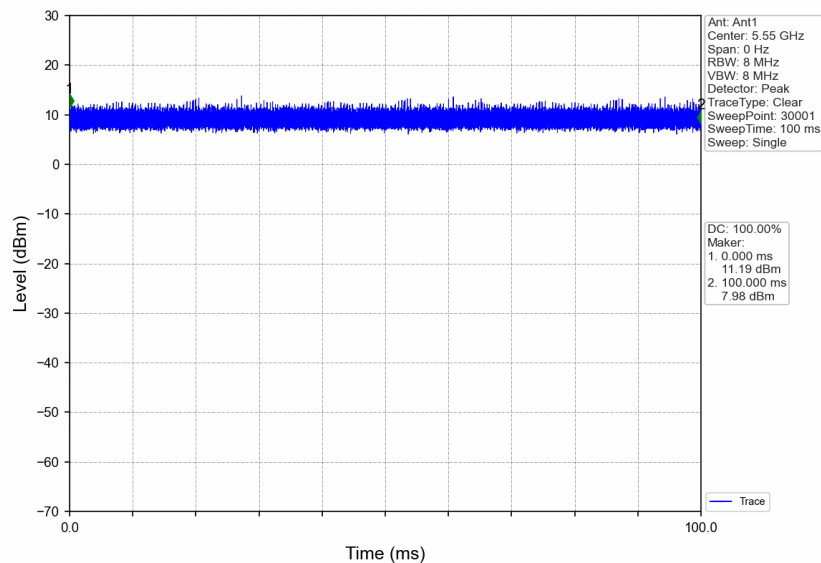
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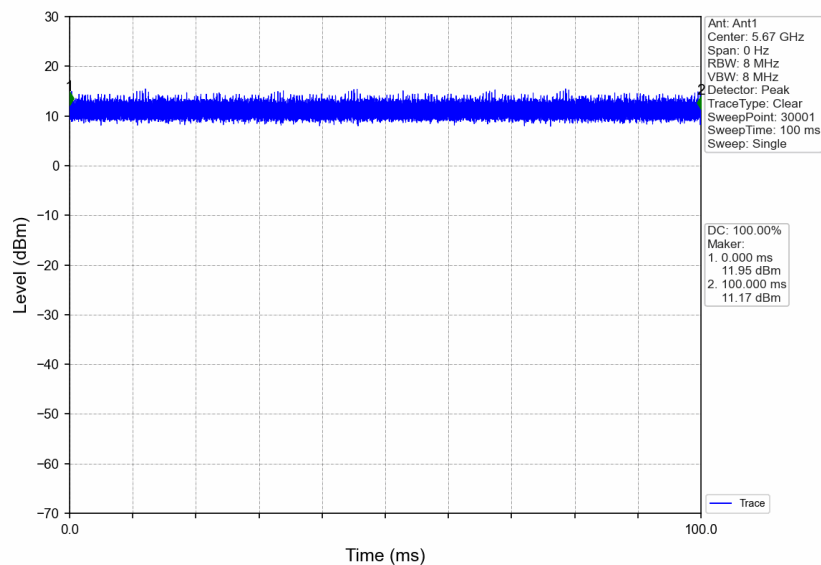
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802.11ac(VHT40) MCH 5550MHz Ant1 NTNV



802.11ac(VHT40) HCH 5670MHz Ant1 NTNV



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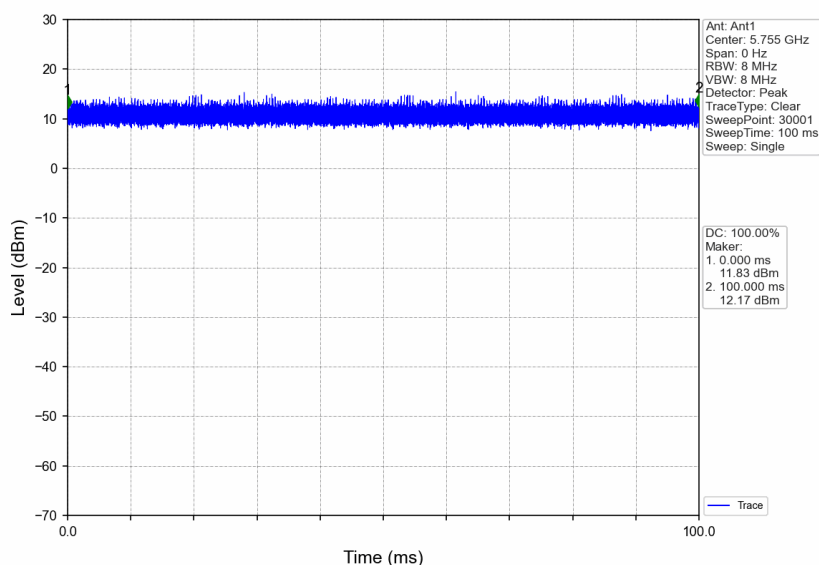
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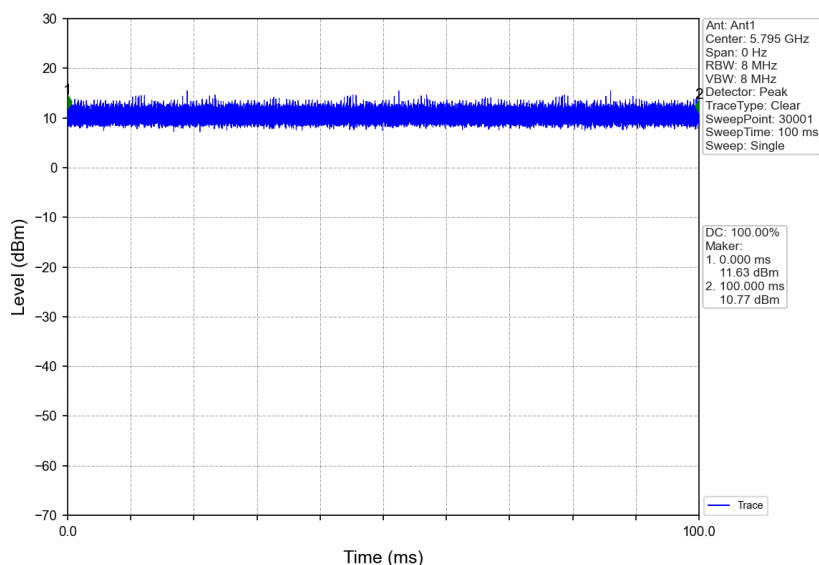
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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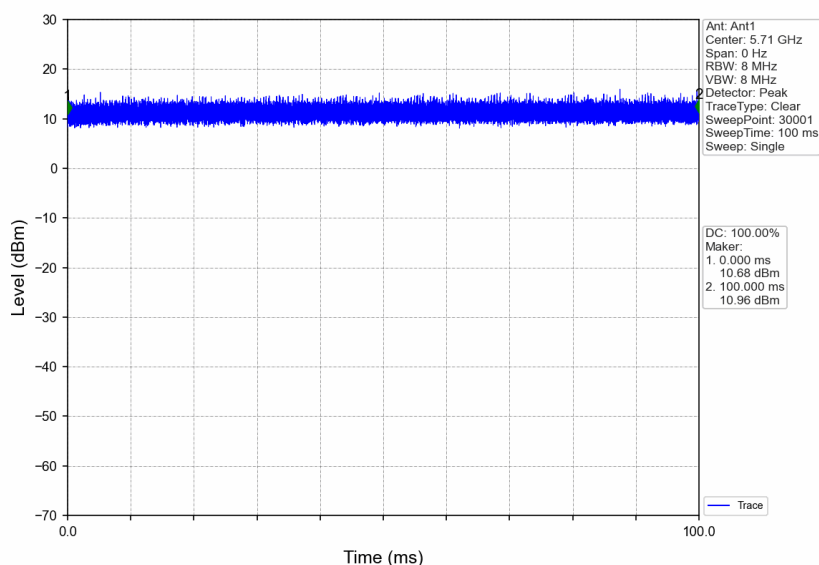
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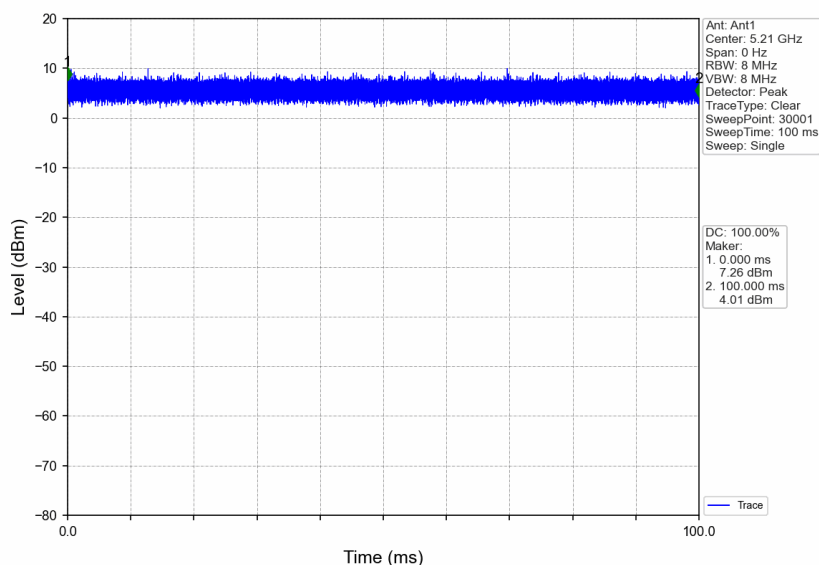
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802.11ac(VHT40)_HCH_5710MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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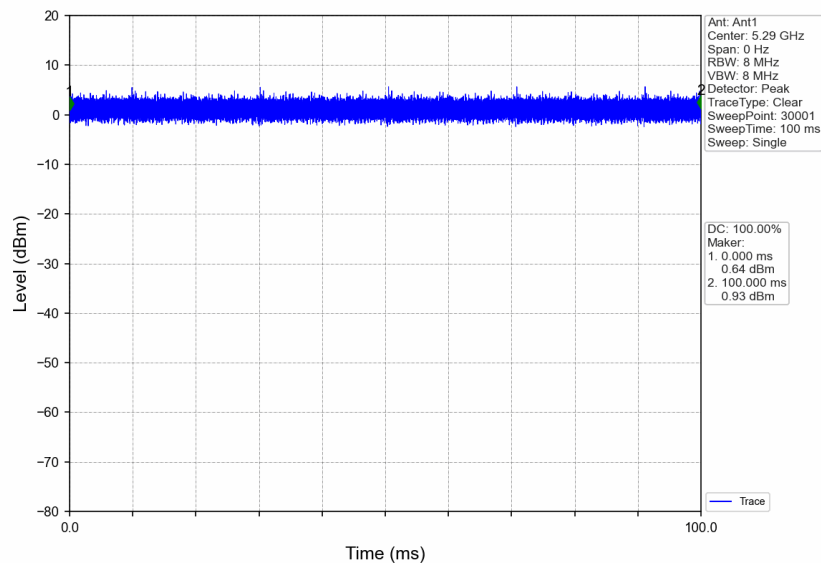
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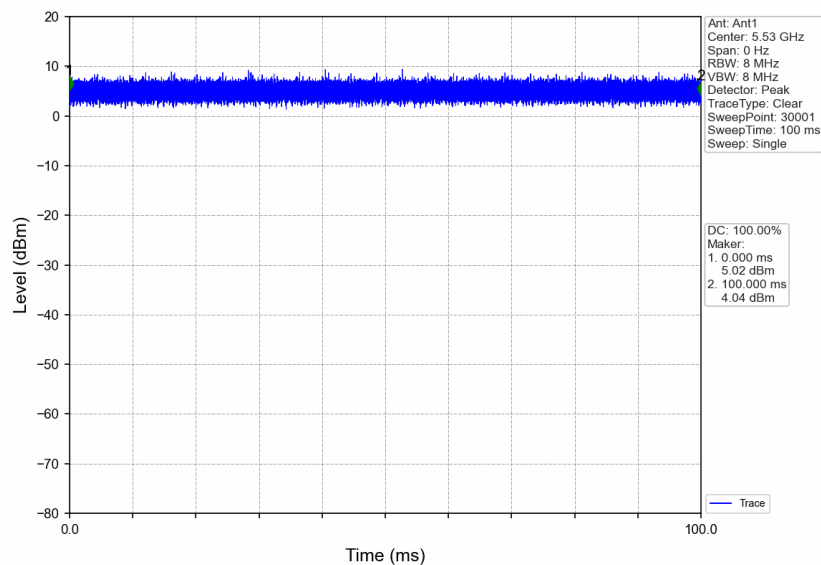
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802.11ac(VHT80) MCH 5290MHz Ant1 NTNV



802.11ac(VHT80) LCH 5530MHz Ant1 NTNV



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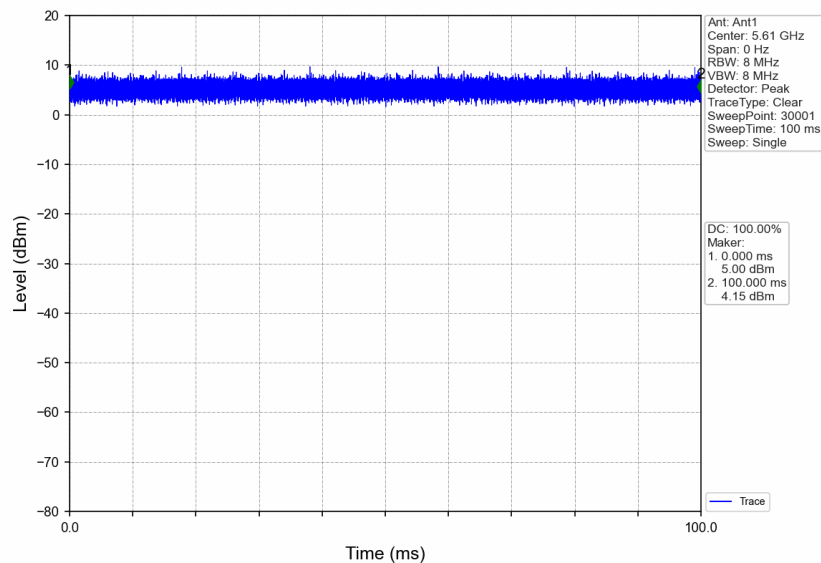
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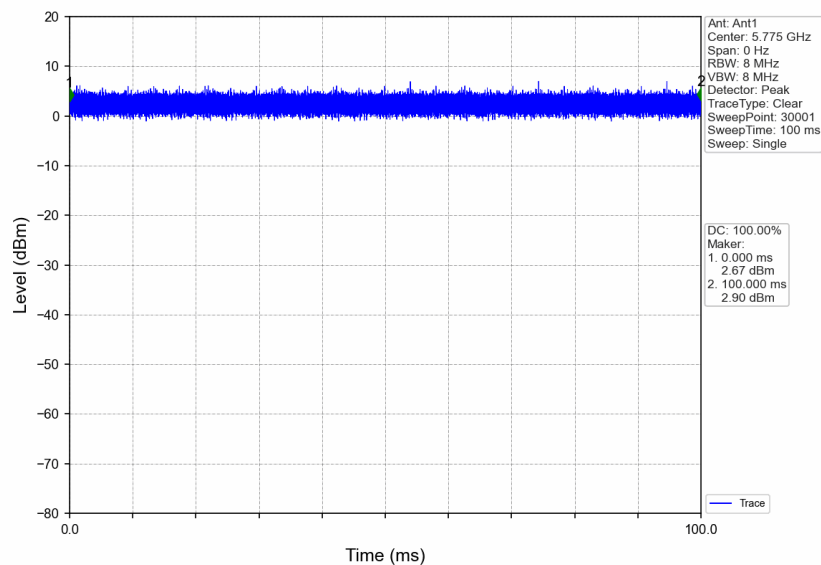
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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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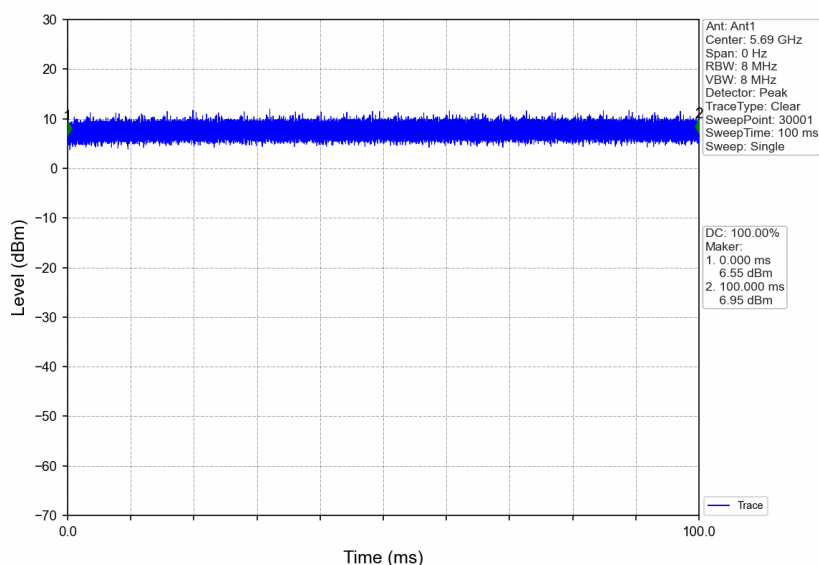
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.214	Pass
			2	17.911	Pass
		5200	1	17.213	Pass
			2	17.856	Pass
		5240	1	17.857	Pass
			2	17.852	Pass
		5260	1	17.205	Pass
			2	17.824	Pass
		5300	1	17.856	Pass
			2	17.875	Pass
		5320	1	17.913	Pass
			2	17.884	Pass
		5500	1	17.225	Pass
			2	17.901	Pass
		5580	1	17.905	Pass
			2	17.852	Pass
		5700	1	17.880	Pass
			2	17.858	Pass
		5745	1	17.031	Pass
			2	17.968	Pass
		5785	1	17.939	Pass
			2	17.927	Pass
		5825	1	17.867	Pass
			2	17.963	Pass
802.11n (HT20)	MIMO	5180	1 (U-NII-2C)	13.606	Pass
			1 (U-NII-3)	3.606	Pass
		5200	2 (U-NII-2C)	13.5855	Pass
			2 (U-NII-3)	3.5855	Pass
		5180	1	18.123	Pass
			2	18.050	Pass
		5200	1	18.096	Pass
			2	18.098	Pass
		5240	1	18.132	Pass
			2	18.083	Pass
		5260	1	18.110	Pass
			2	18.091	Pass
		5300	1	18.118	Pass
			2	18.083	Pass
		5320	1	18.102	Pass
			2	18.102	Pass
		5500	1	18.113	Pass
			2	18.109	Pass



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		5580	1	18.107	Pass
			2	18.118	Pass
		5700	1	18.122	Pass
			2	18.108	Pass
		5745	1	18.137	Pass
			2	18.093	Pass
		5785	1	18.135	Pass
			2	18.115	Pass
		5825	1	18.143	Pass
			2	18.110	Pass
		5720	1 (U-NII-2C)	14.0645	Pass
			1 (U-NII-3)	4.0645	Pass
802.11n (HT40)	MIMO	5190	1	37.091	Pass
			2	37.073	Pass
		5230	1	37.023	Pass
			2	37.035	Pass
		5270	1	37.043	Pass
			2	37.082	Pass
		5310	1	37.084	Pass
			2	37.055	Pass
		5510	1	37.106	Pass
			2	37.112	Pass
		5550	1	37.081	Pass
			2	37.034	Pass
		5670	1	37.040	Pass
			2	37.058	Pass
		5755	1	37.069	Pass
			2	37.047	Pass
		5795	1	37.048	Pass
			2	37.038	Pass
		5710	1 (U-NII-2C)	33.525	Pass
			1 (U-NII-3)	3.525	Pass
			2 (U-NII-2C)	33.506	Pass
			2 (U-NII-3)	3.506	Pass
802.11ac (VHT20)	MIMO	5180	1	18.141	Pass
			2	18.139	Pass
		5200	1	18.145	Pass
			2	18.132	Pass
		5240	1	18.137	Pass
			2	18.130	Pass
		5260	1	18.114	Pass
			2	16.996	Pass
		5300	1	18.148	Pass
			2	18.124	Pass
		5320	1	18.164	Pass
			2	18.137	Pass
		5500	1	18.131	Pass
			2	18.147	Pass
		5580	1	18.142	Pass
			2	18.146	Pass

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		5700	1	18.146	Pass
			2	18.129	Pass
		5745	1	18.133	Pass
			2	18.147	Pass
		5785	1	18.162	Pass
			2	18.120	Pass
		5825	1	18.156	Pass
			2	18.133	Pass
		5720	1 (U-NII-2C)	14.067	Pass
			1 (U-NII-3)	4.067	Pass
			2 (U-NII-2C)	14.066	Pass
			2 (U-NII-3)	4.066	Pass
802.11ac (VHT40)	MIMO	5190	1	37.072	Pass
			2	37.083	Pass
		5230	1	37.099	Pass
			2	37.063	Pass
		5270	1	37.077	Pass
			2	37.027	Pass
		5310	1	37.034	Pass
			2	37.042	Pass
		5510	1	37.136	Pass
			2	37.081	Pass
		5550	1	37.066	Pass
			2	37.098	Pass
		5670	1	37.087	Pass
			2	37.098	Pass
		5755	1	37.044	Pass
			2	37.071	Pass
		5795	1	37.041	Pass
			2	37.025	Pass
		5710	1 (U-NII-2C)	33.5395	Pass
			1 (U-NII-3)	3.5395	Pass
			2 (U-NII-2C)	33.528	Pass
			2 (U-NII-3)	3.528	Pass
802.11ac (VHT80)	MIMO	5210	1	75.959	Pass
			2	75.787	Pass
		5290	1	75.914	Pass
			2	75.909	Pass
		5530	1	75.820	Pass
			2	75.969	Pass
		5610	1	75.816	Pass
			2	75.929	Pass
		5775	1	75.860	Pass
			2	75.901	Pass
		5690	1 (U-NII-2C)	72.9515	Pass
			1 (U-NII-3)	2.9515	Pass
			2 (U-NII-2C)	72.903	Pass
			2 (U-NII-3)	2.903	Pass

Remark: For frequencies falling in U-NII-2C and U-NII-3,
the OBW falling in U-NII-2C: $OBW/2 + (5725 - \text{Test Frequency})$;
the OBW falling in U-NII-3: $OBW/2 - (5725 - \text{Test Frequency})$.



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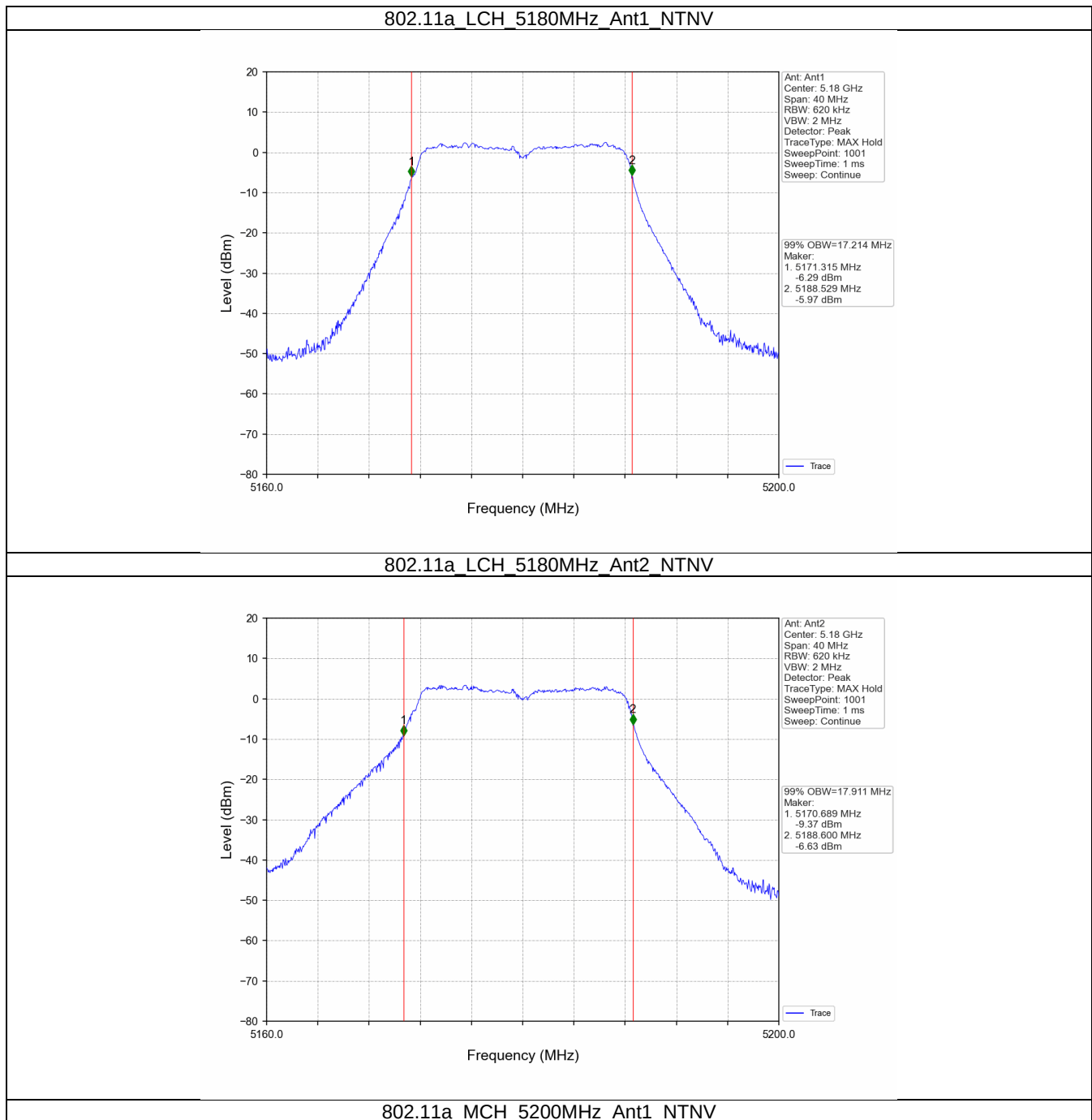
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2.1.2 Test Graph



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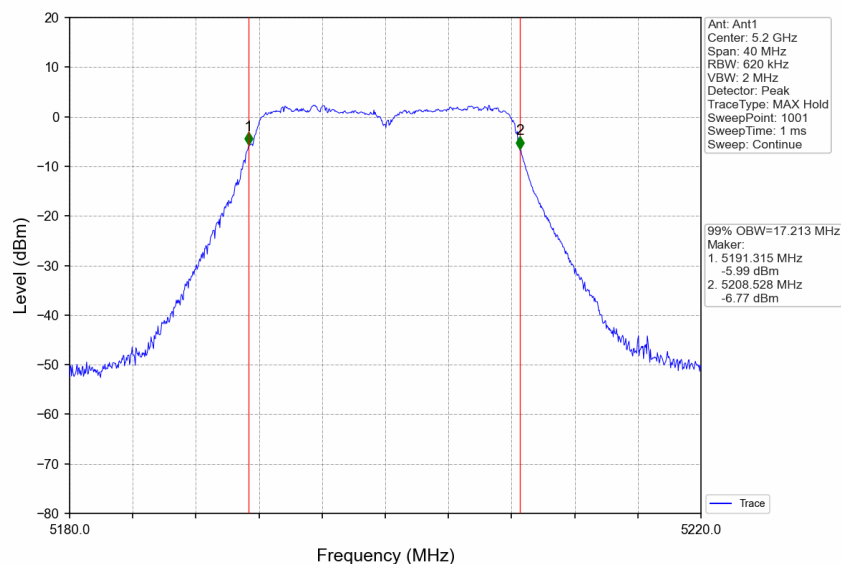
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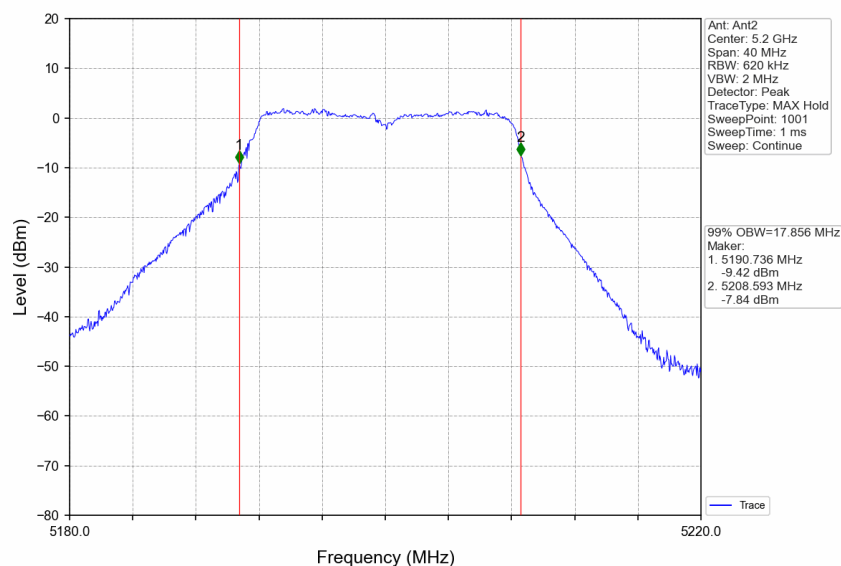
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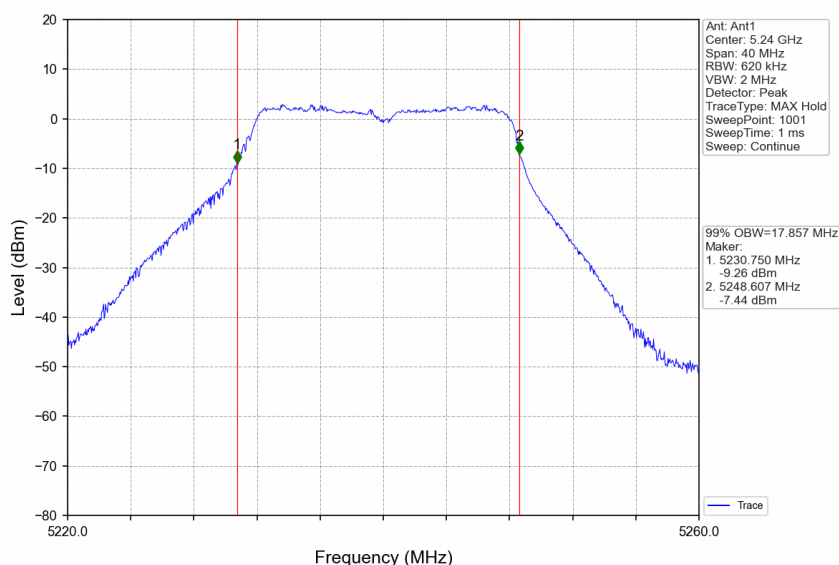
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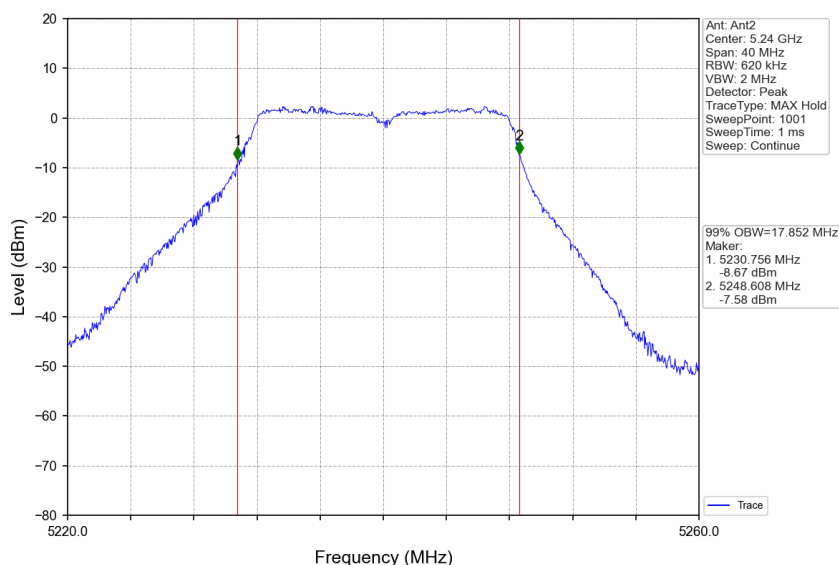
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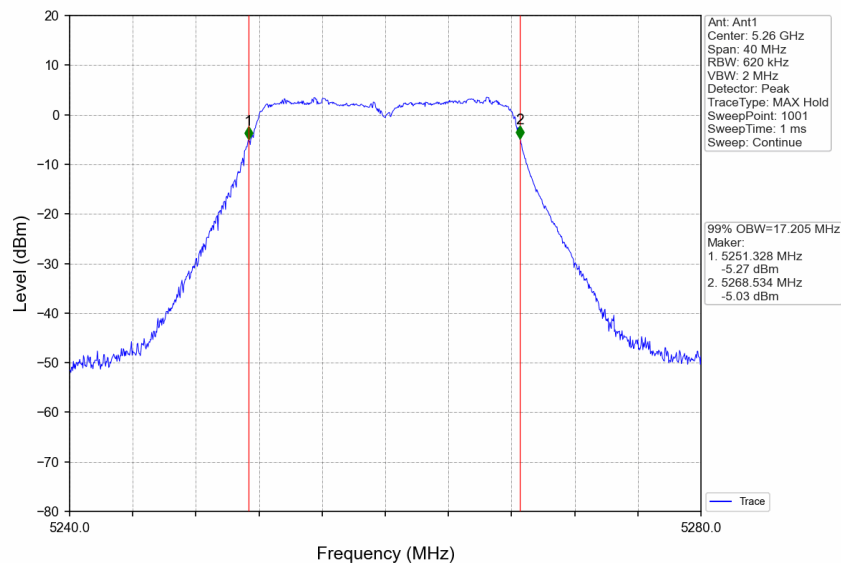
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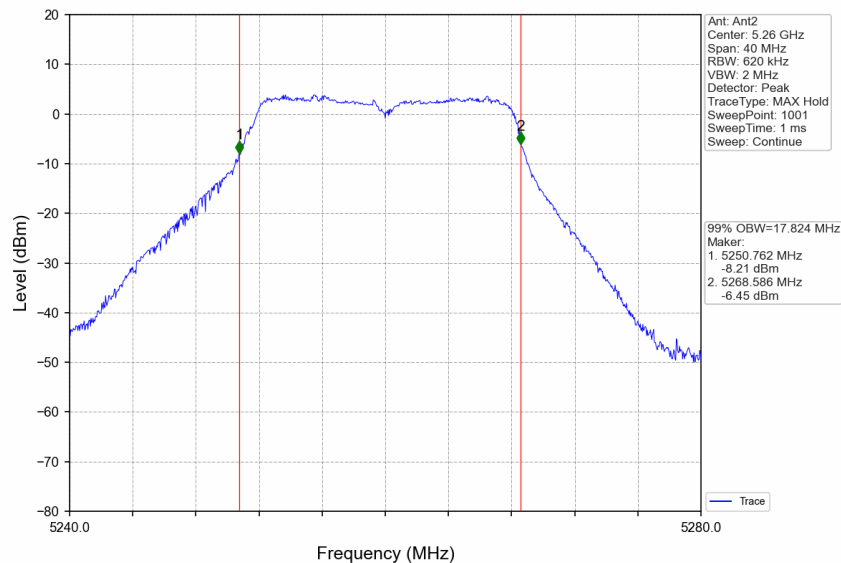
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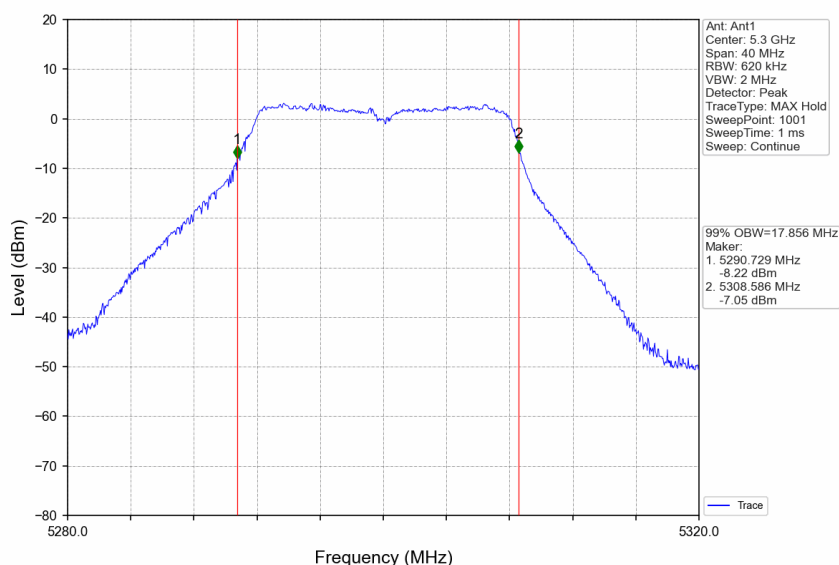
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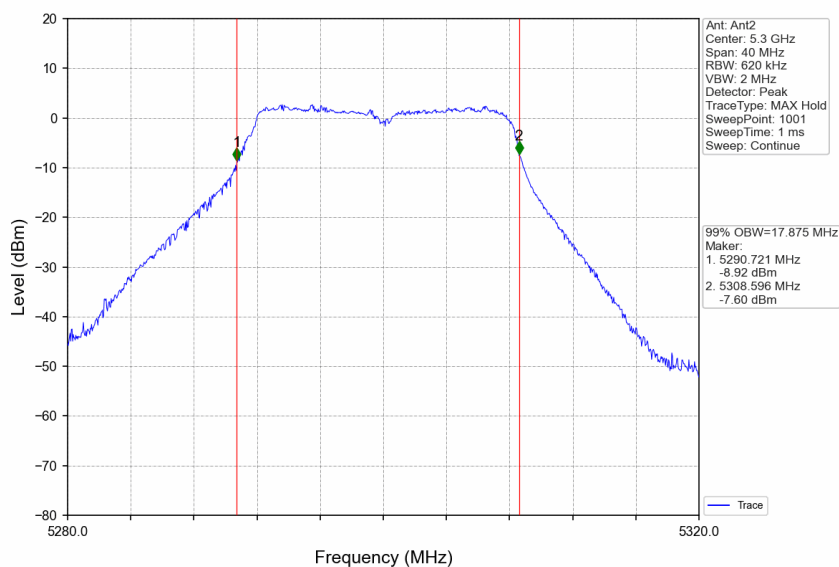
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802.11a_MCH_5300MHz_Ant2_NTNV



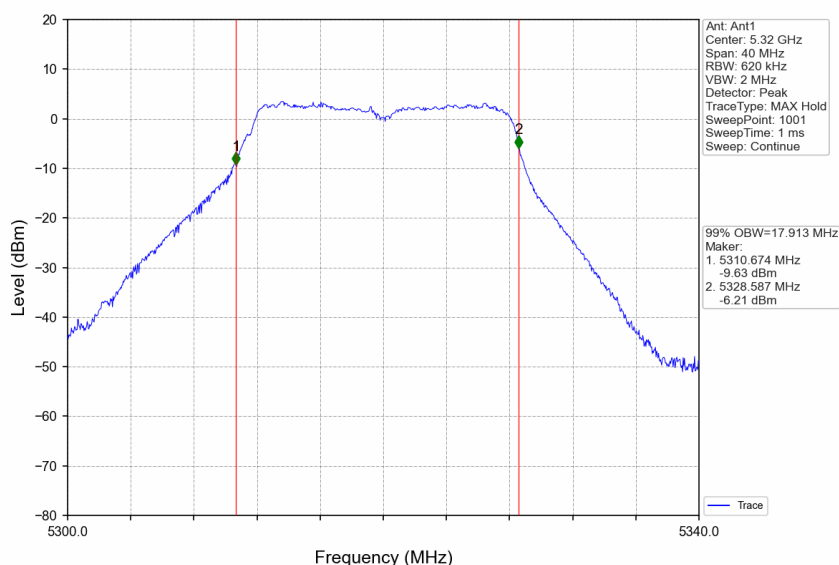
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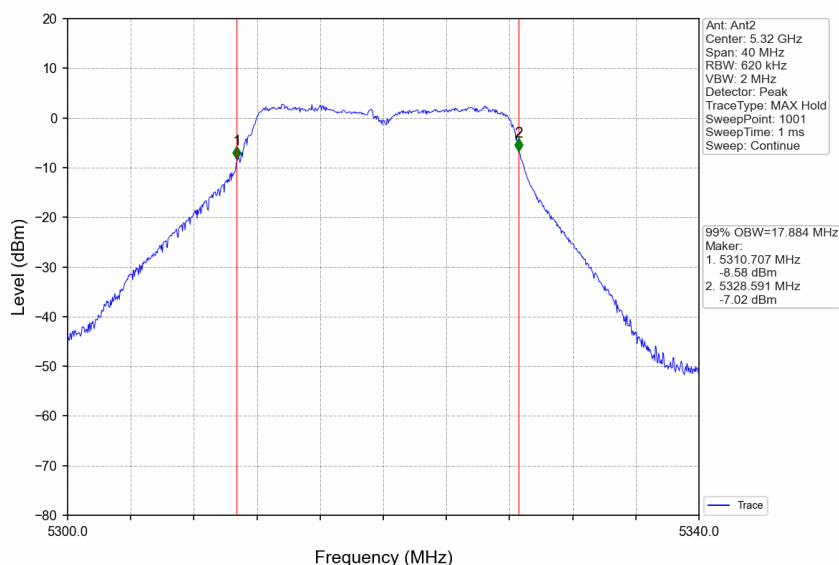
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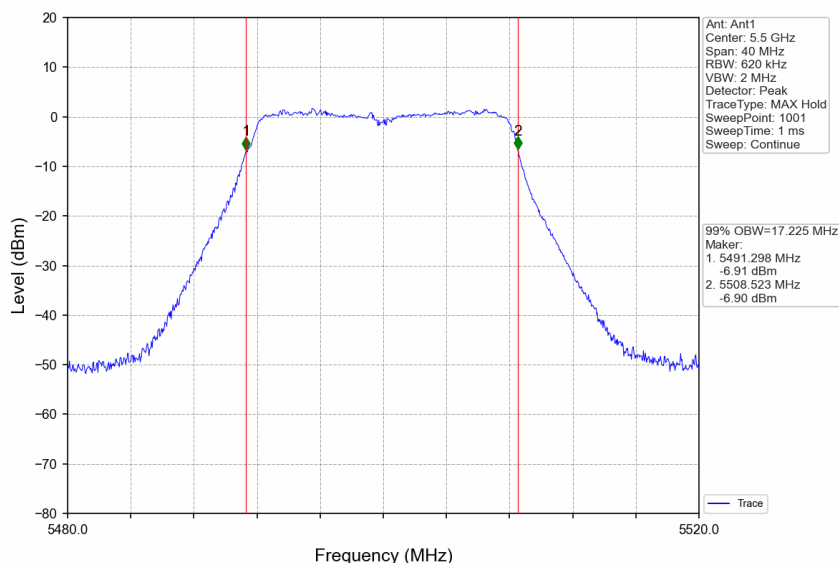
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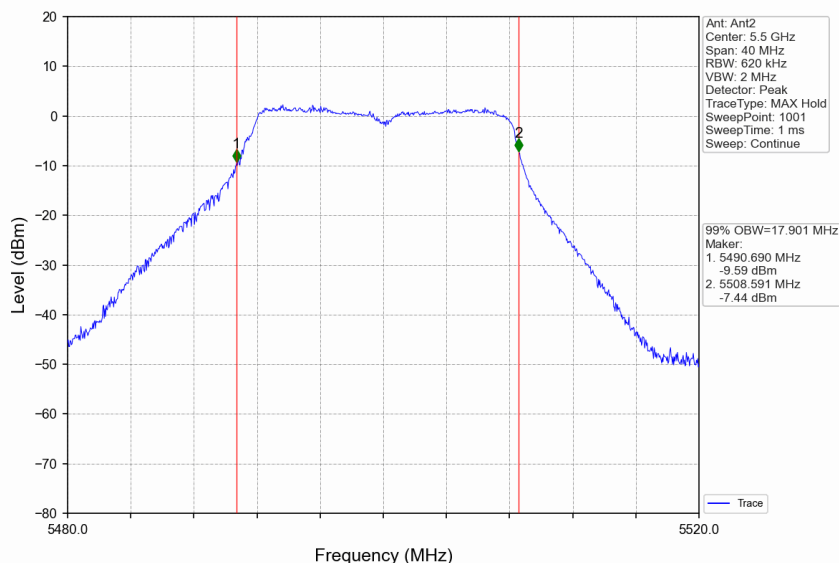
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802.11a_LCH_5500MHz_Ant2_NTNV



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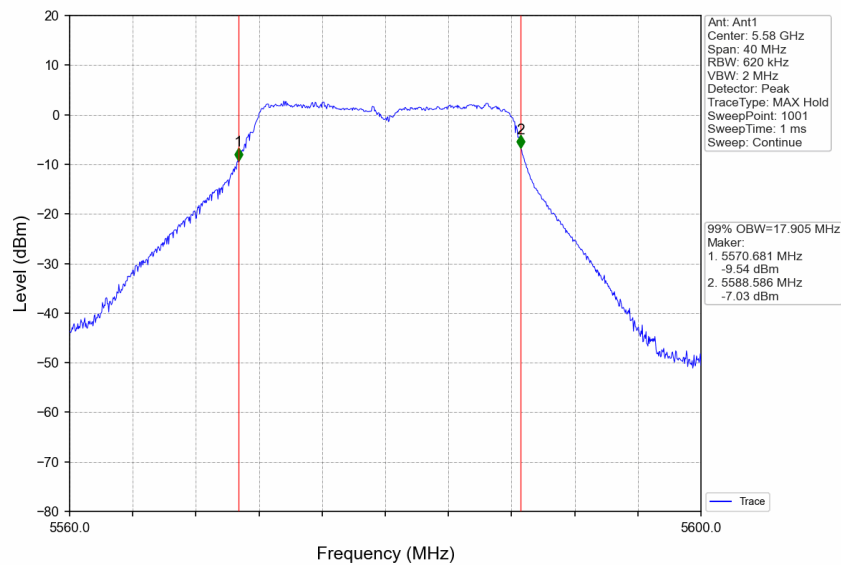
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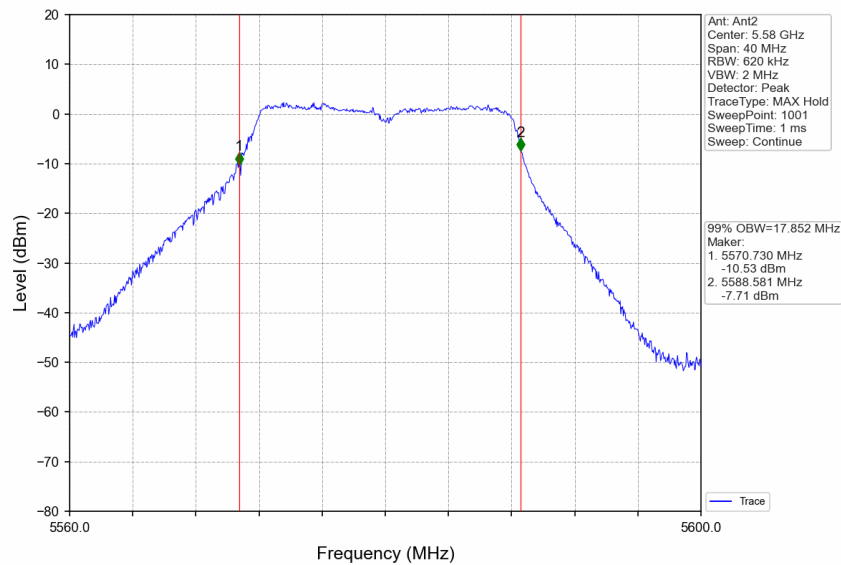
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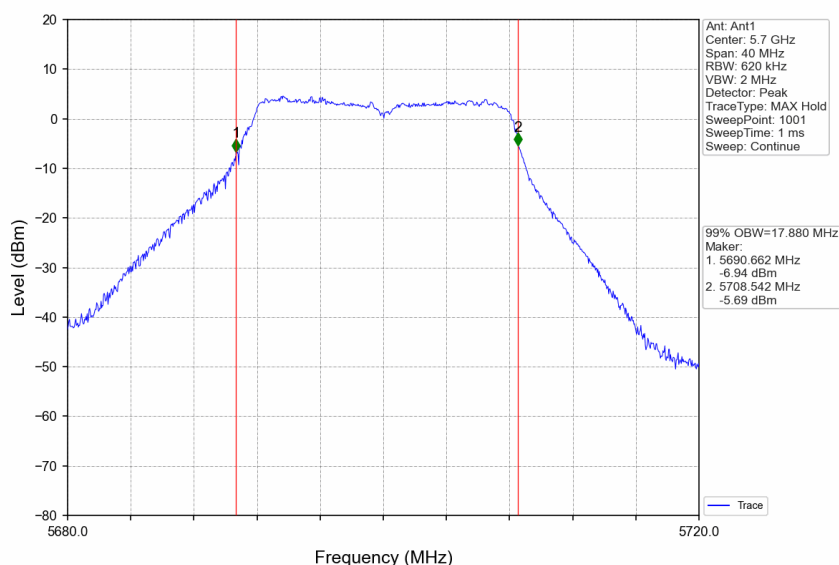
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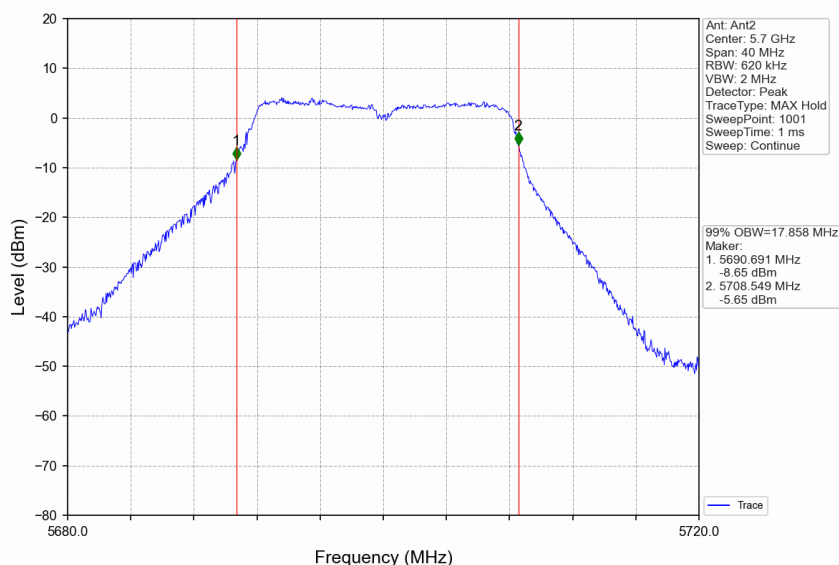
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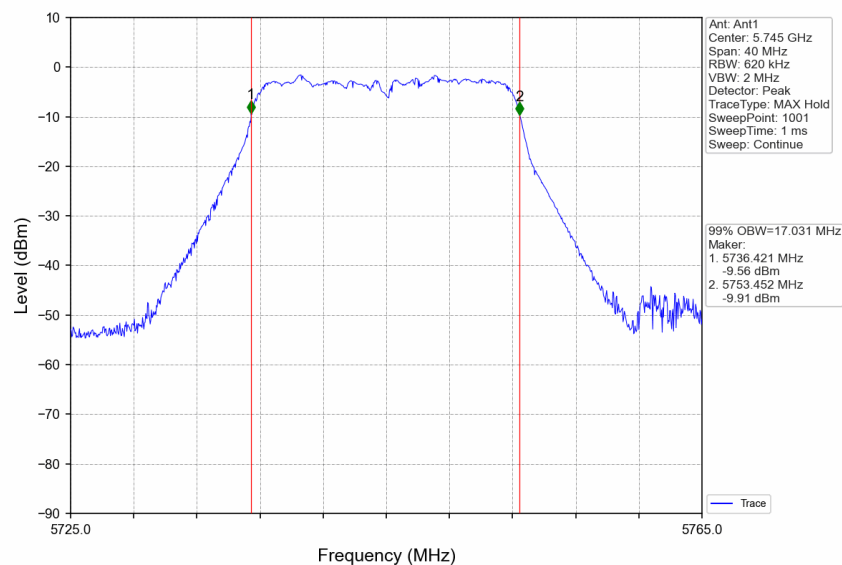
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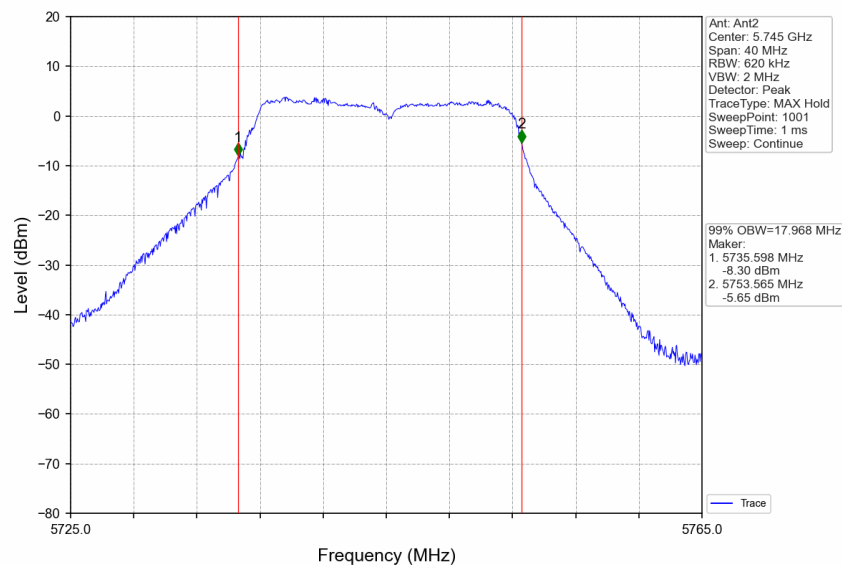
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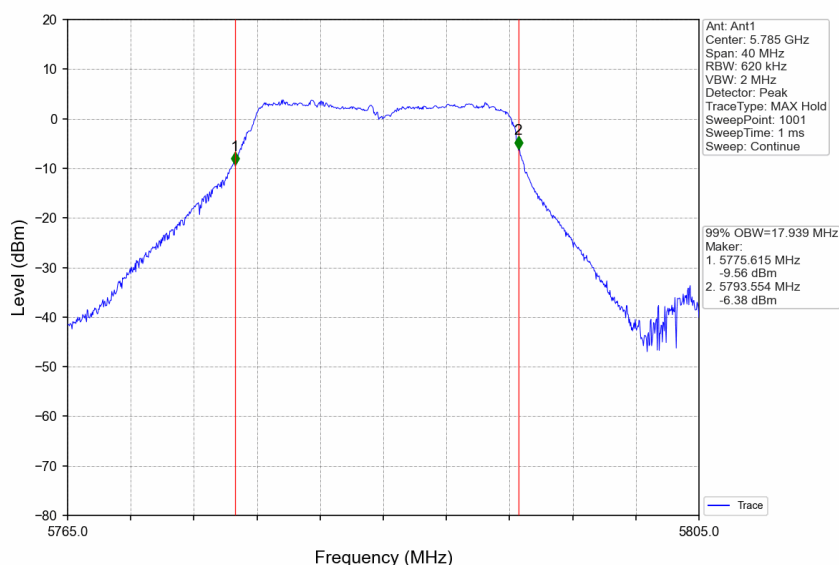
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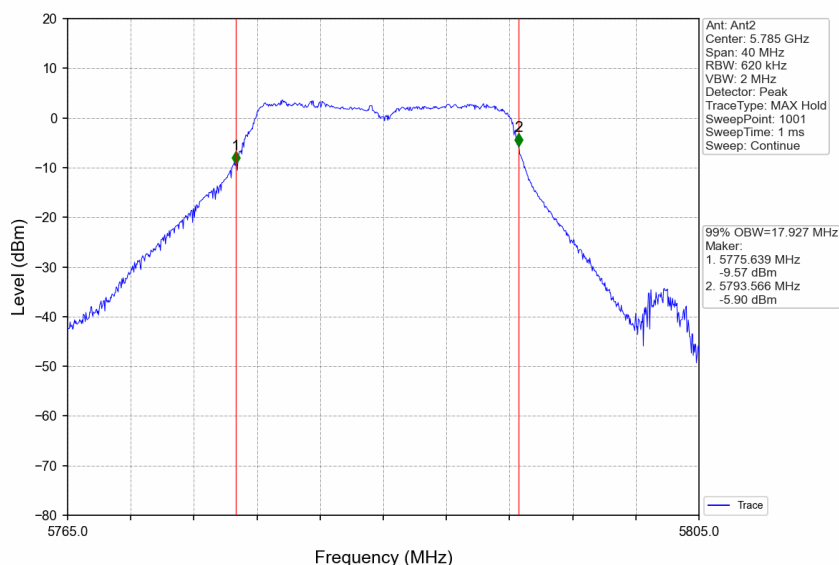
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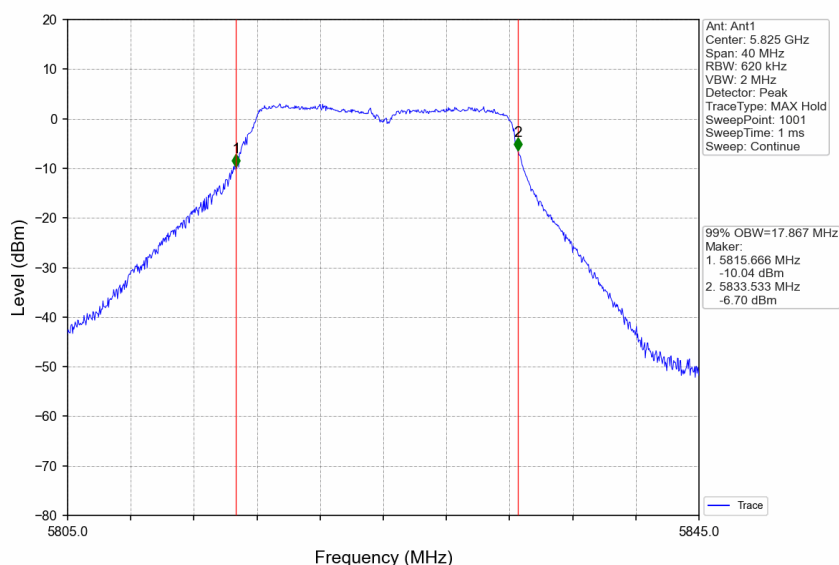
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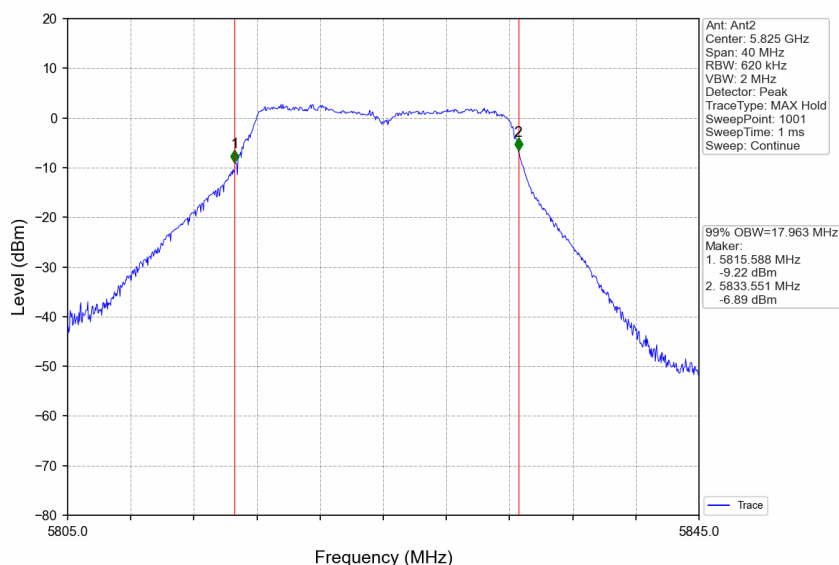
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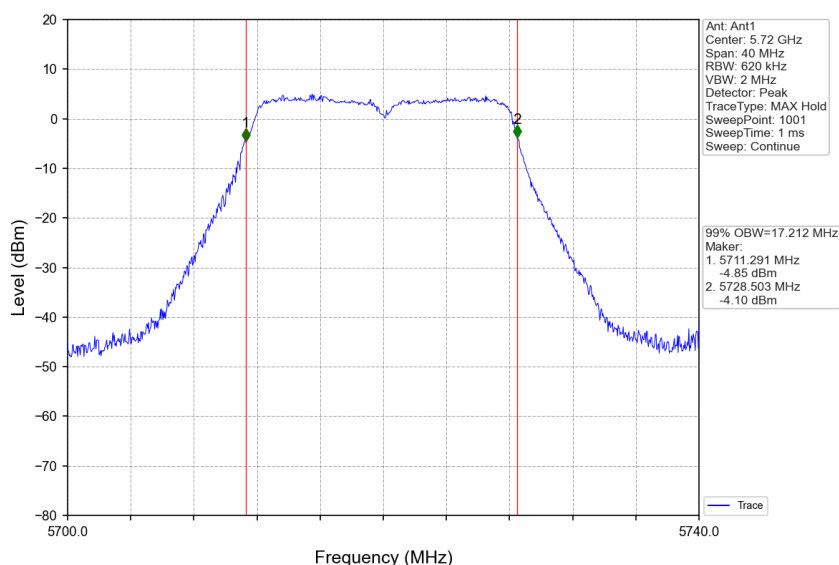
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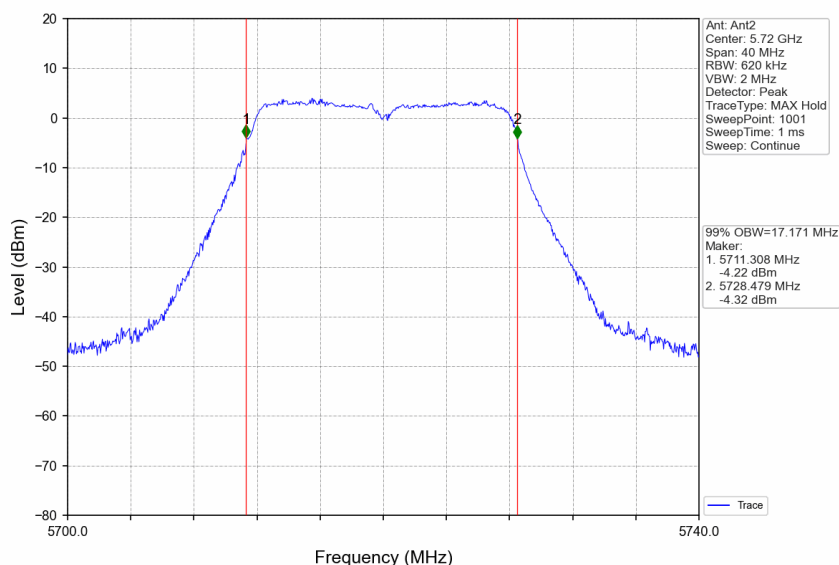
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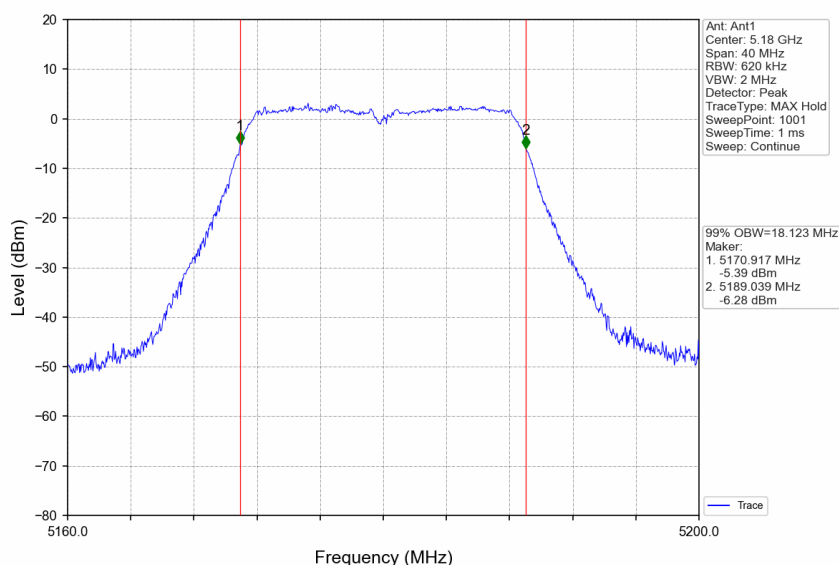
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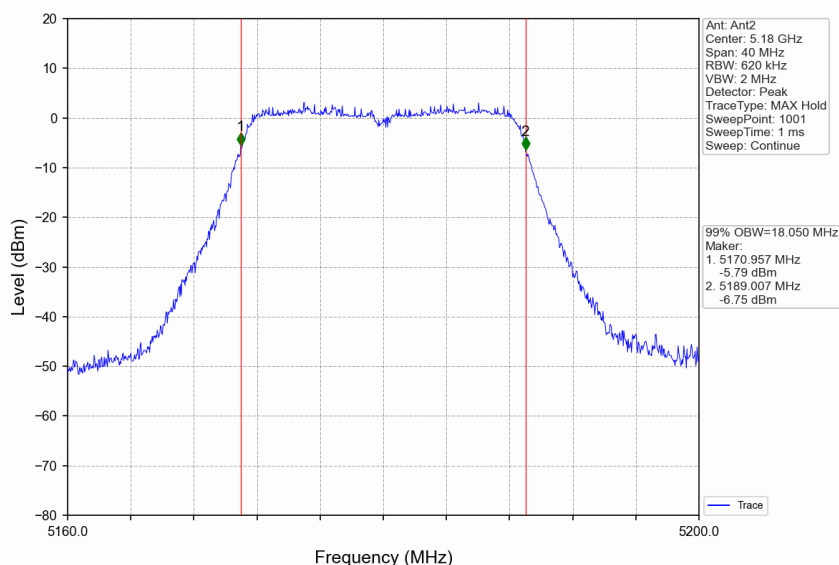
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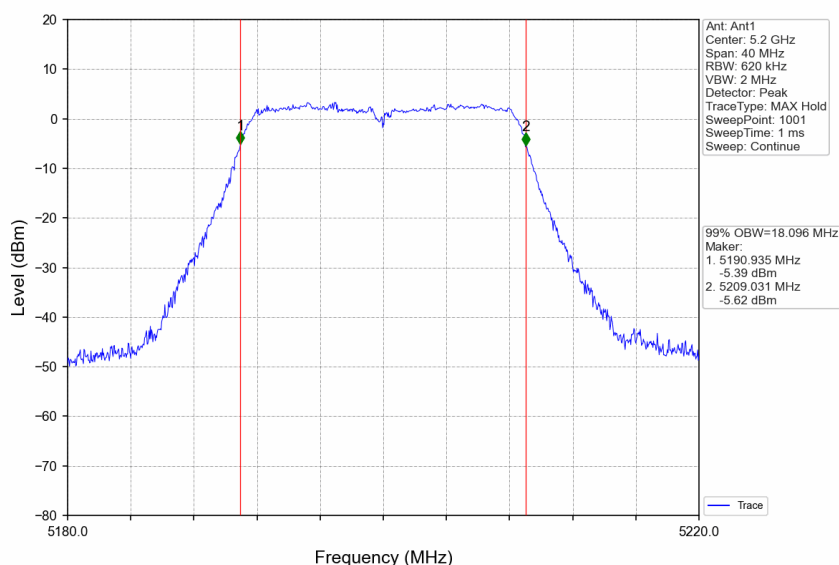
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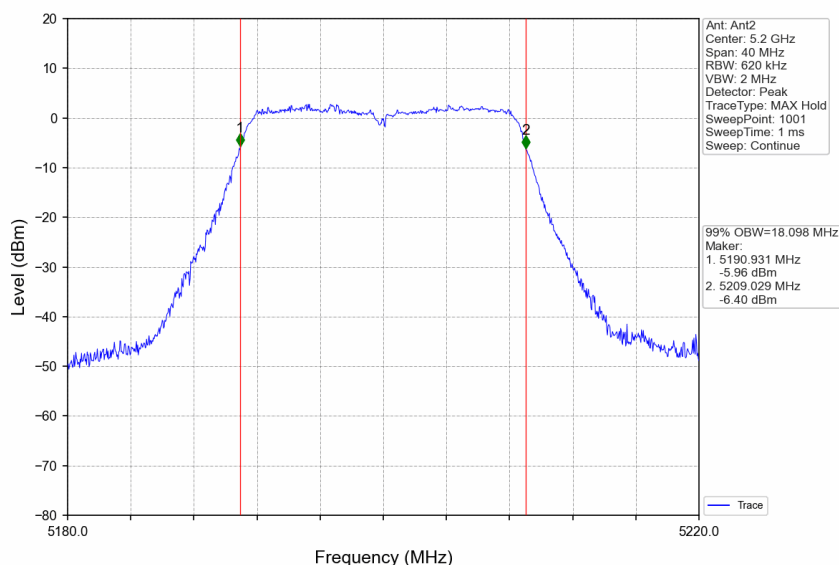
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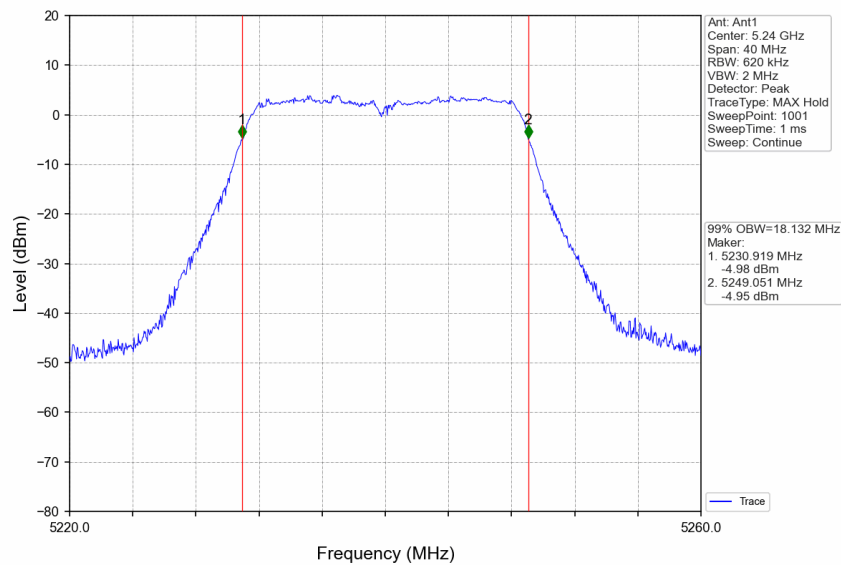
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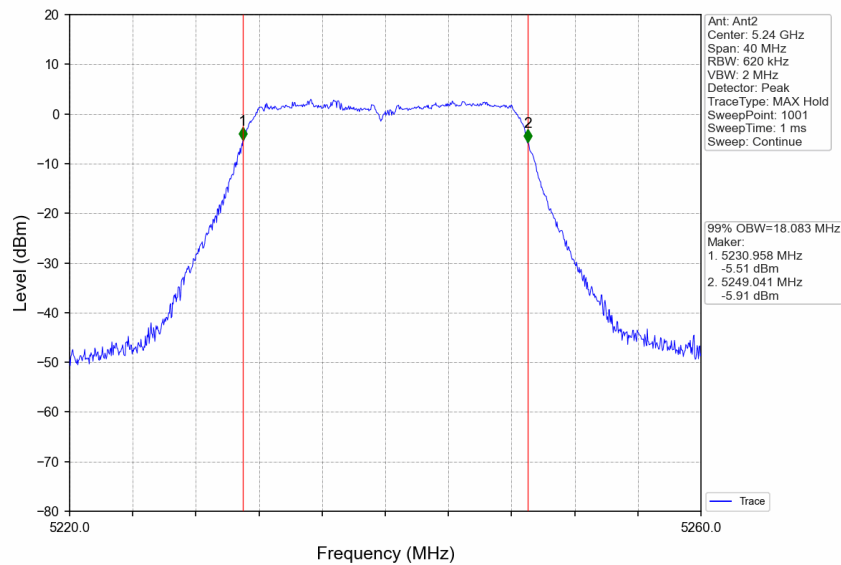
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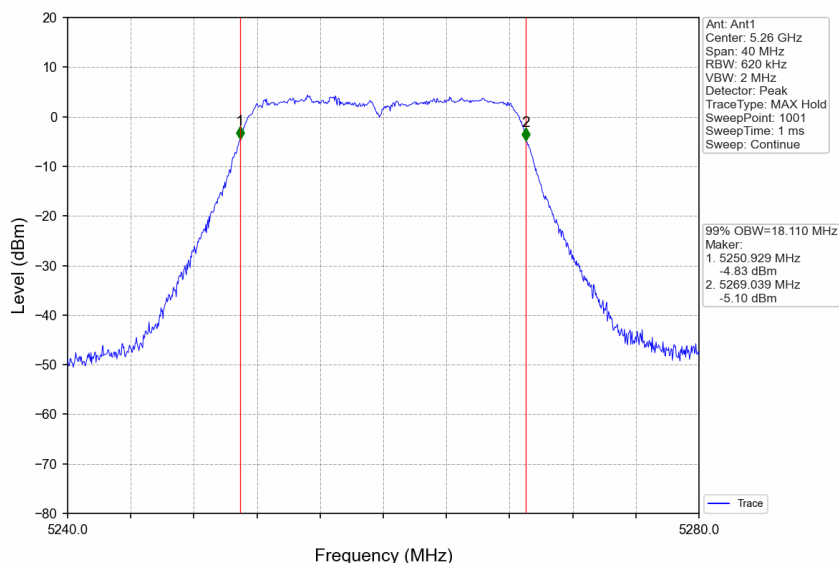
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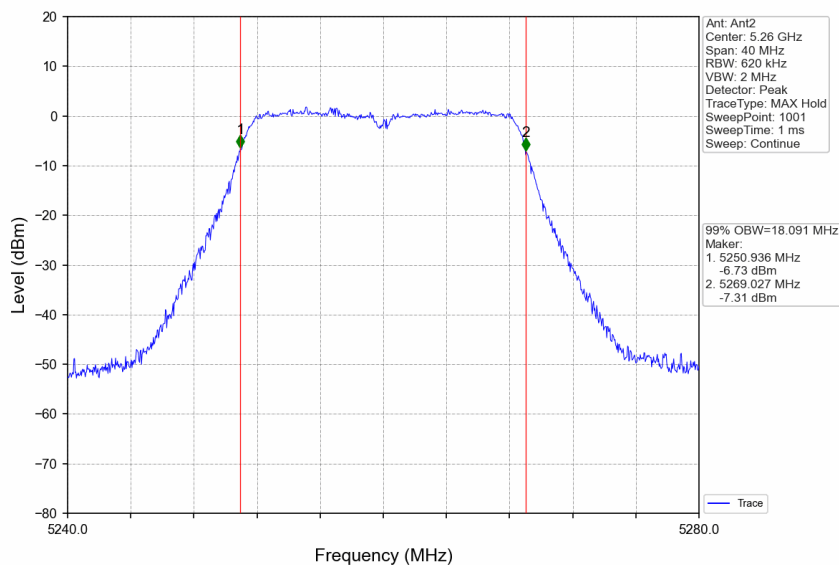
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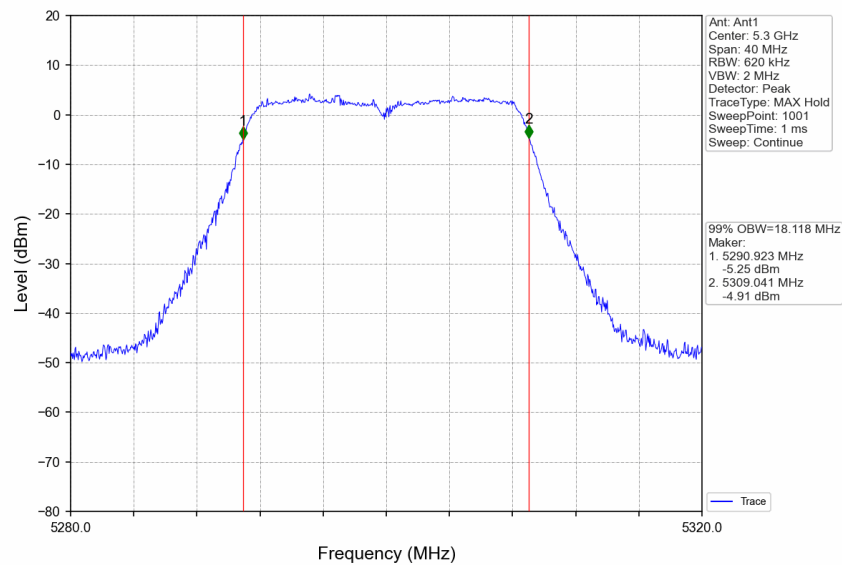
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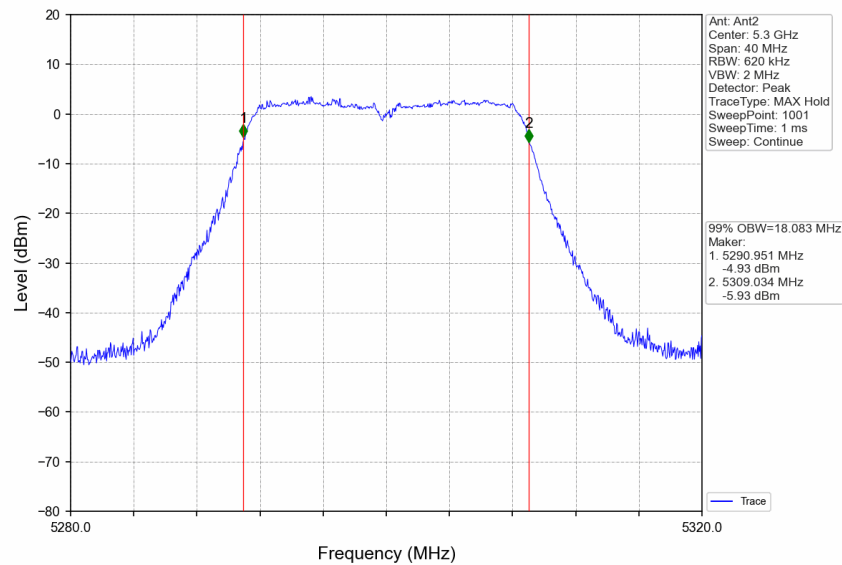
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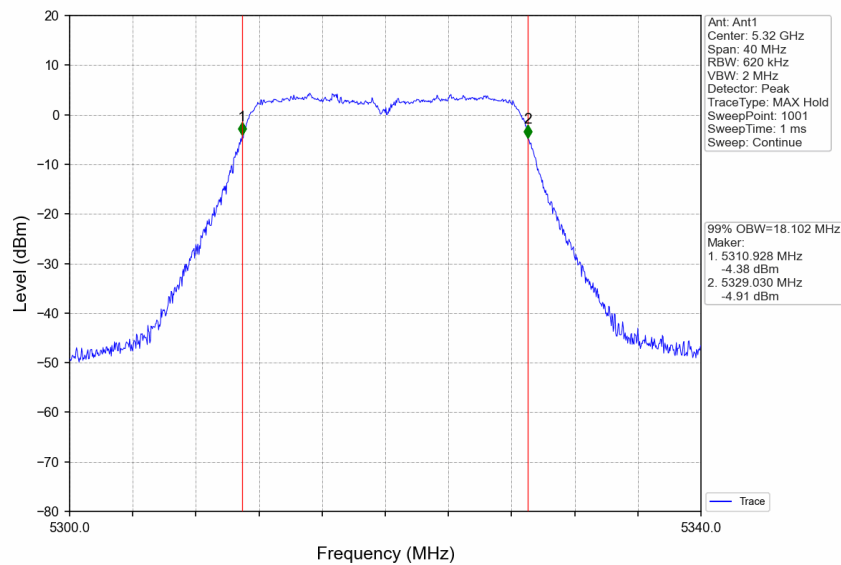
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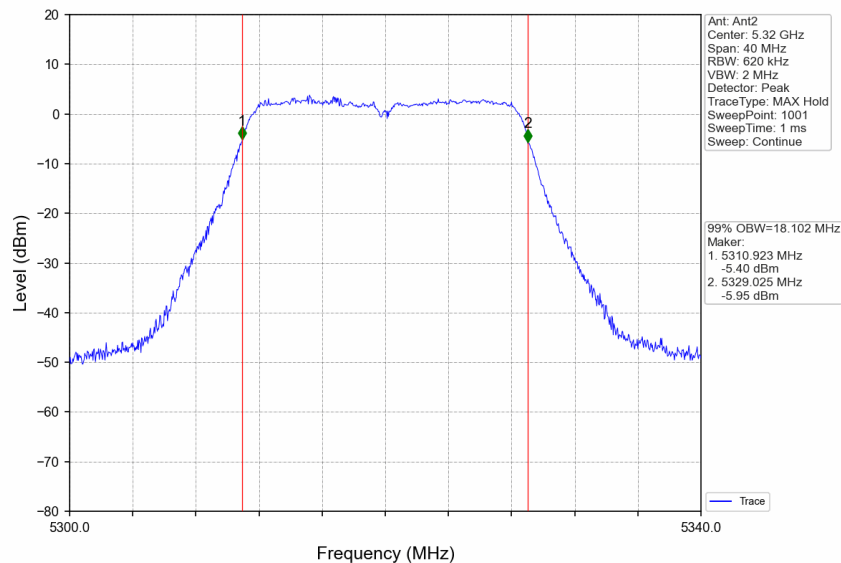
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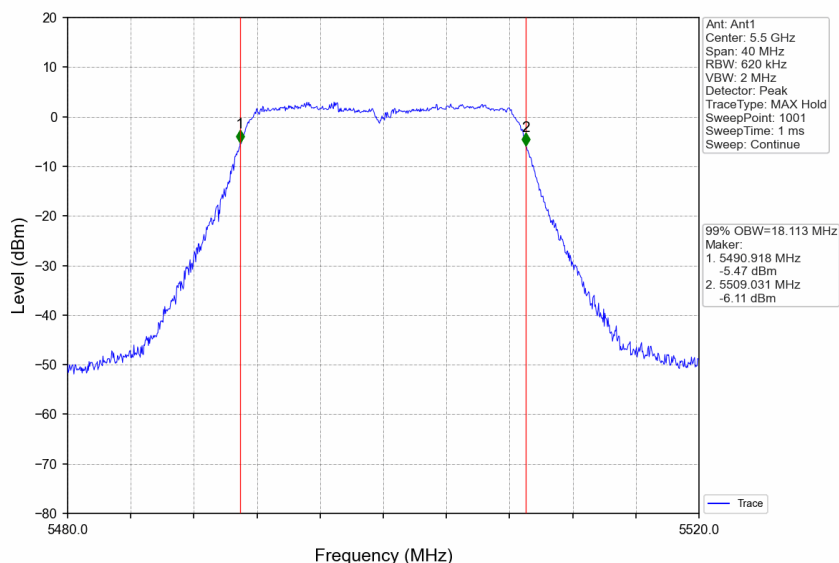
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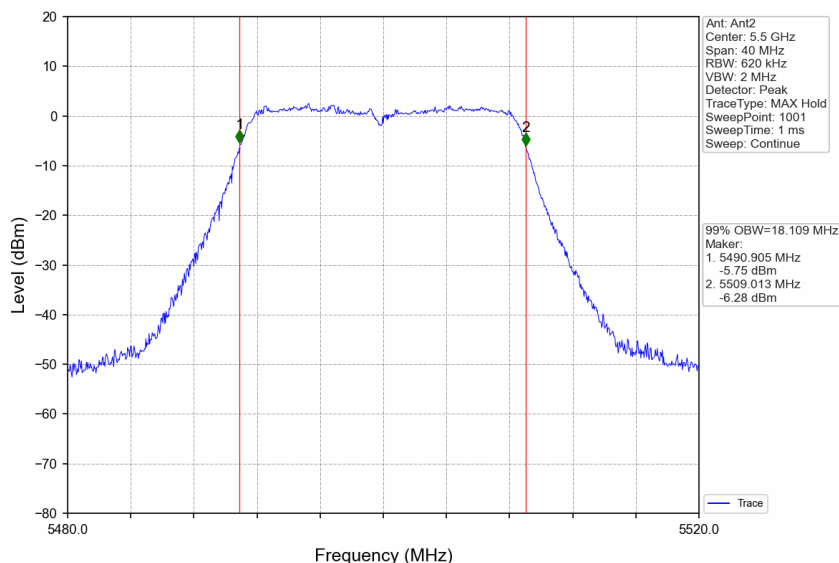
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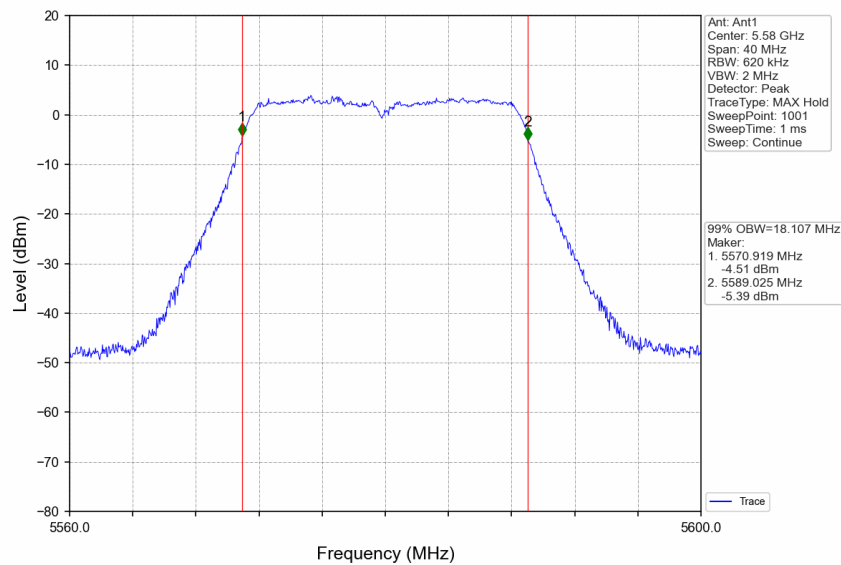
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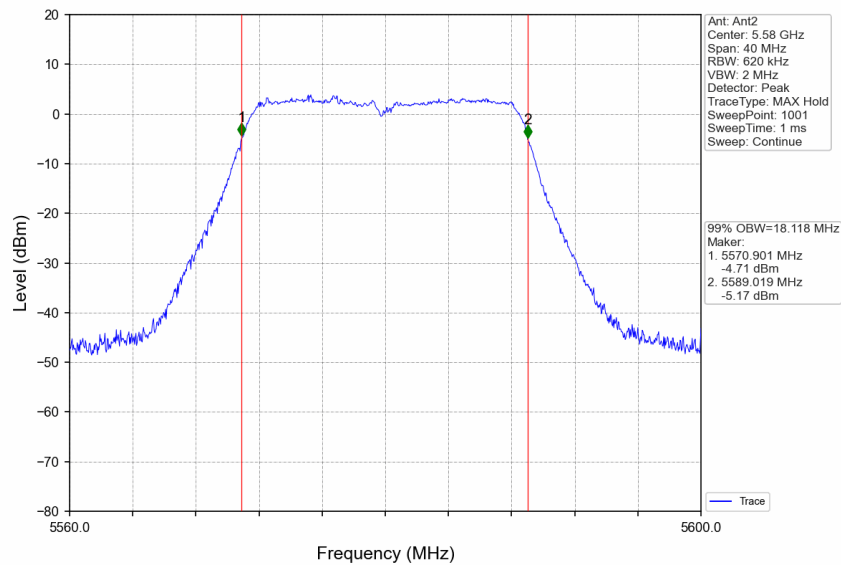
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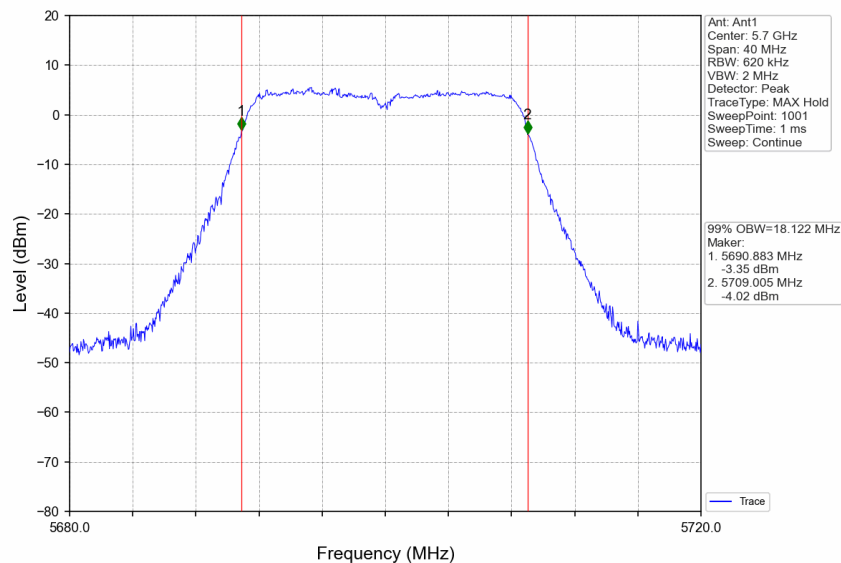
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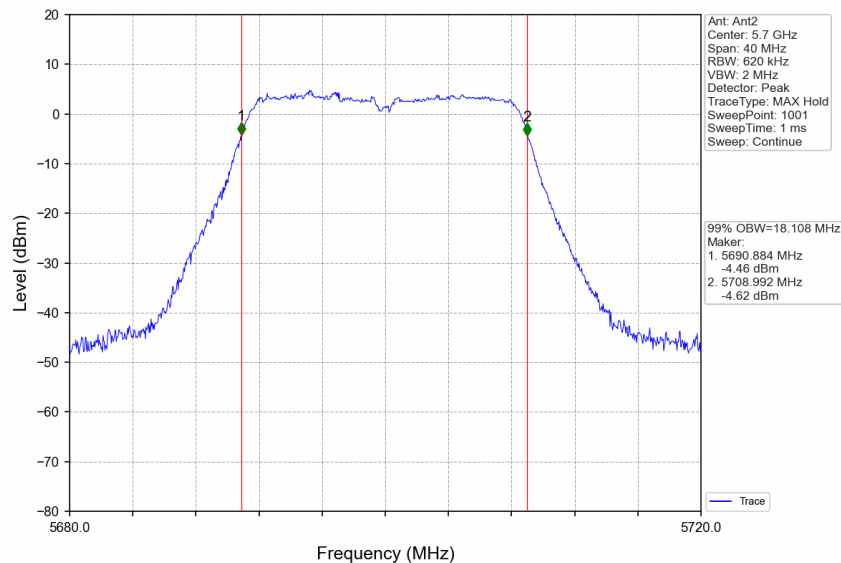
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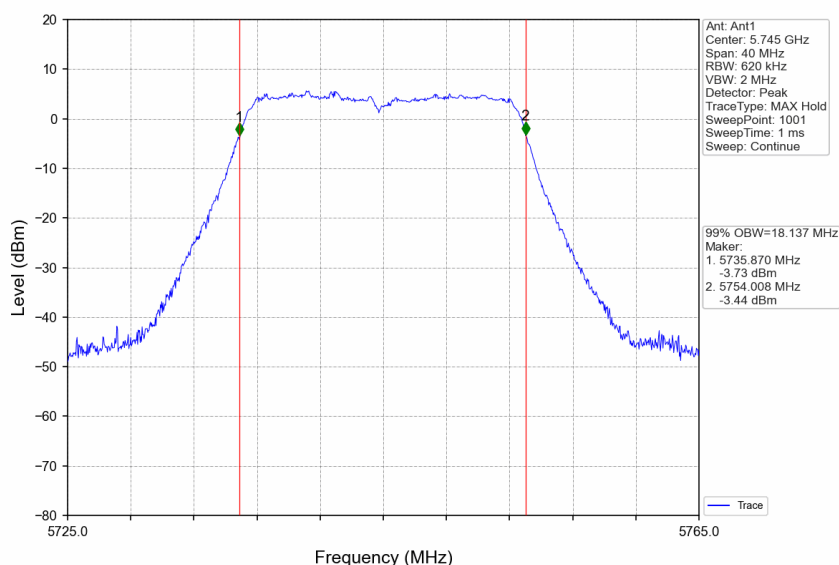
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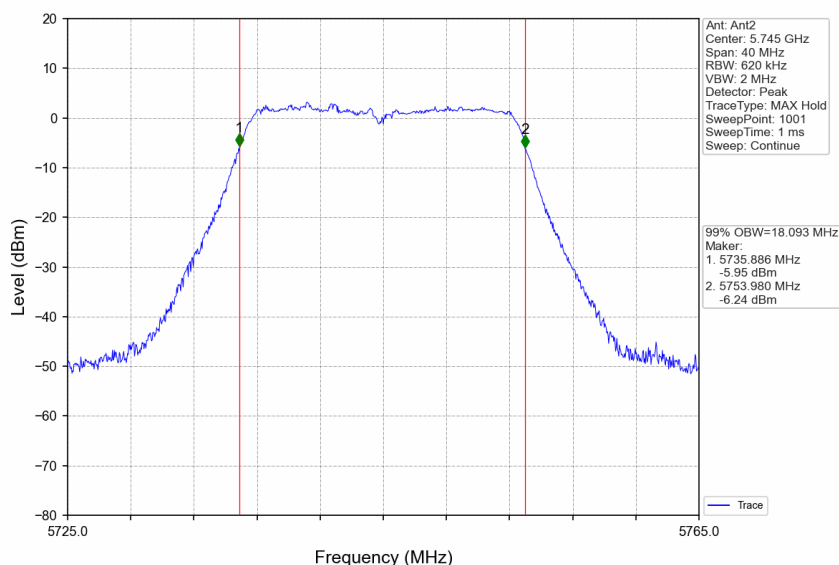
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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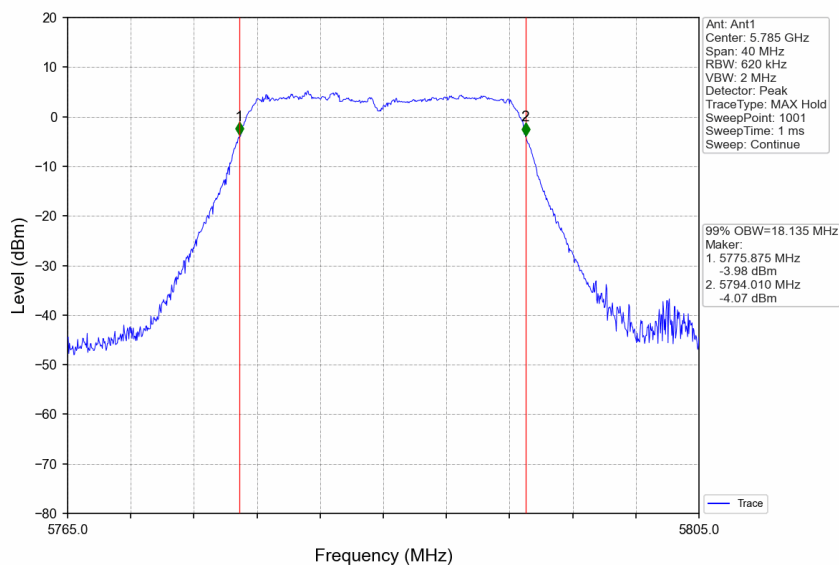
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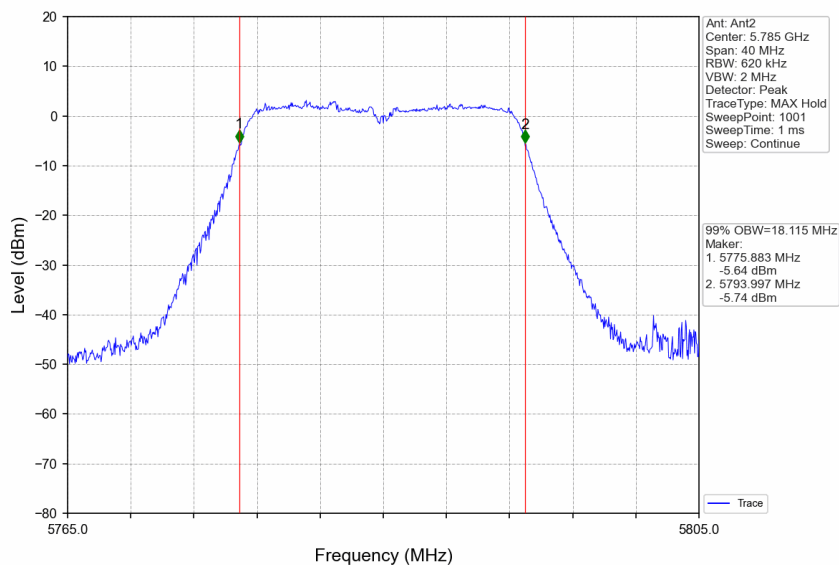
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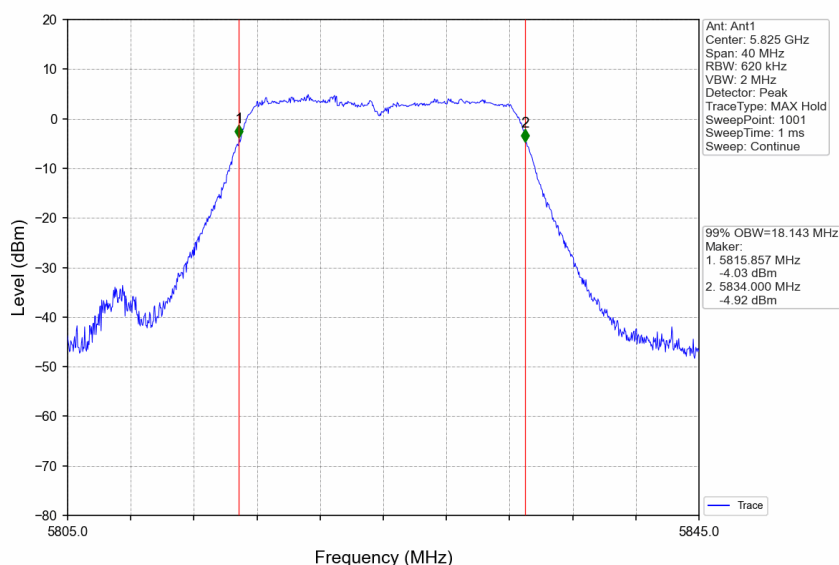
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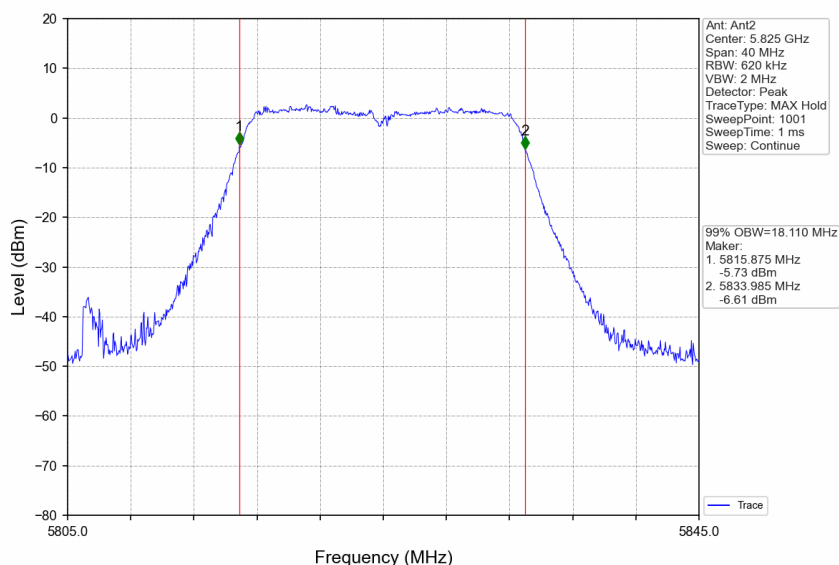
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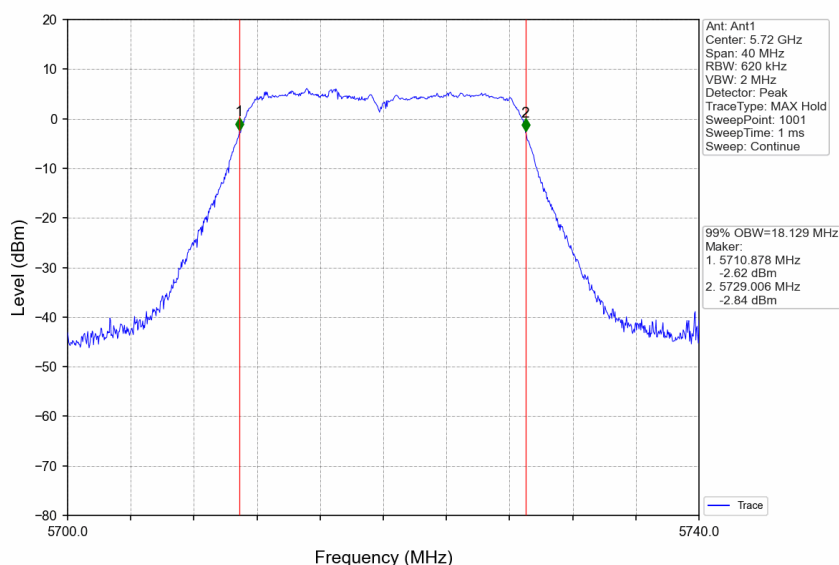
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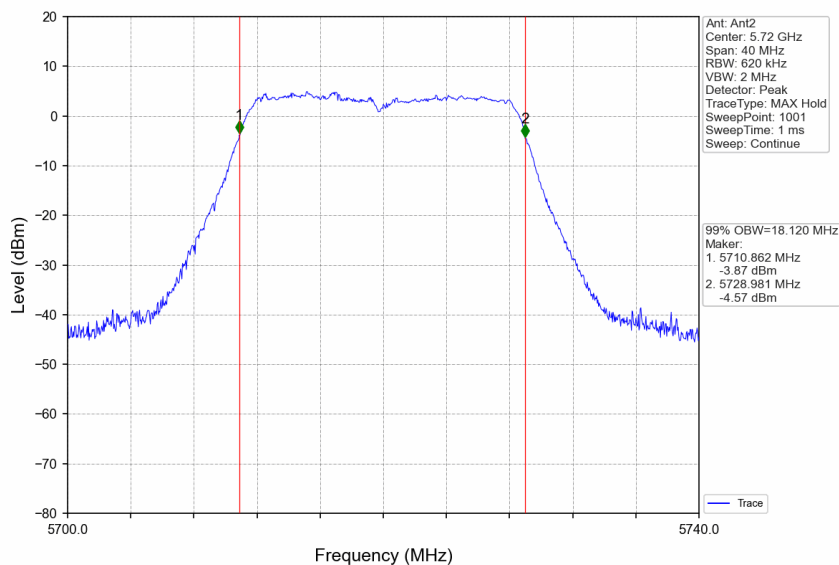
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