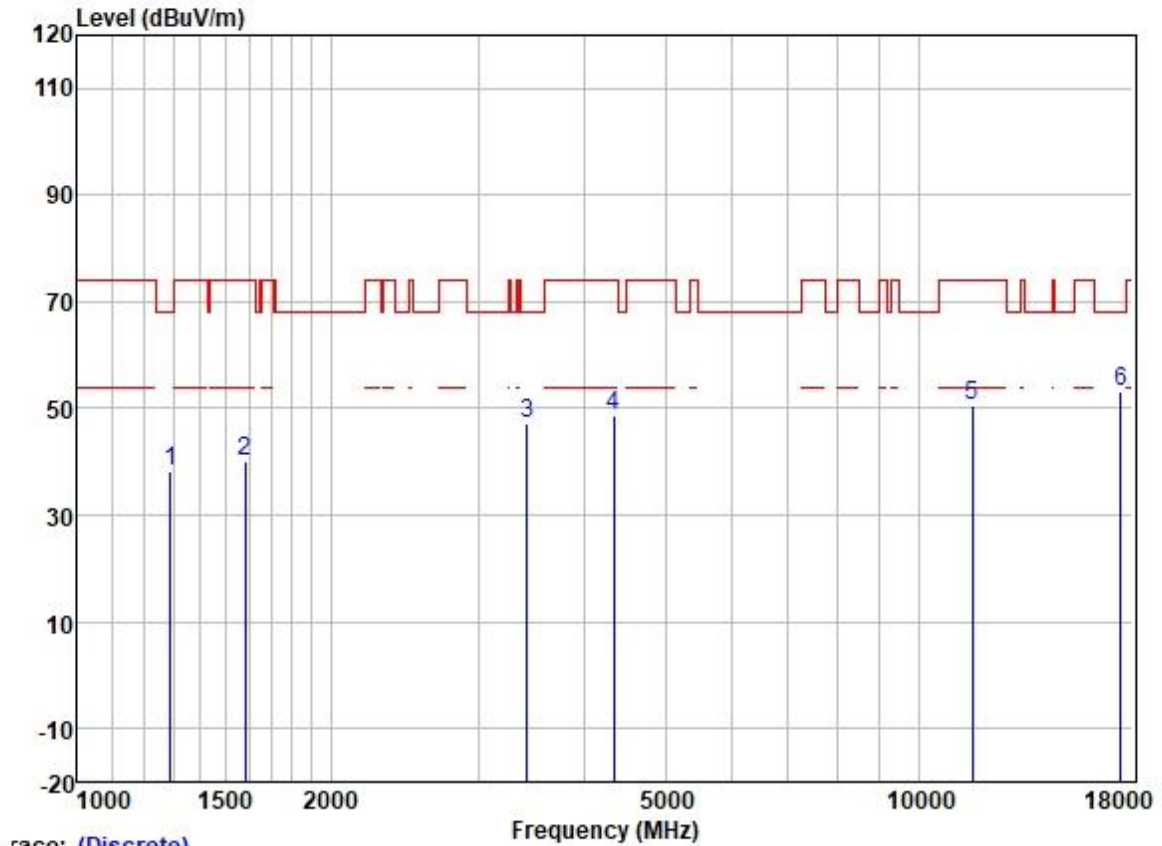


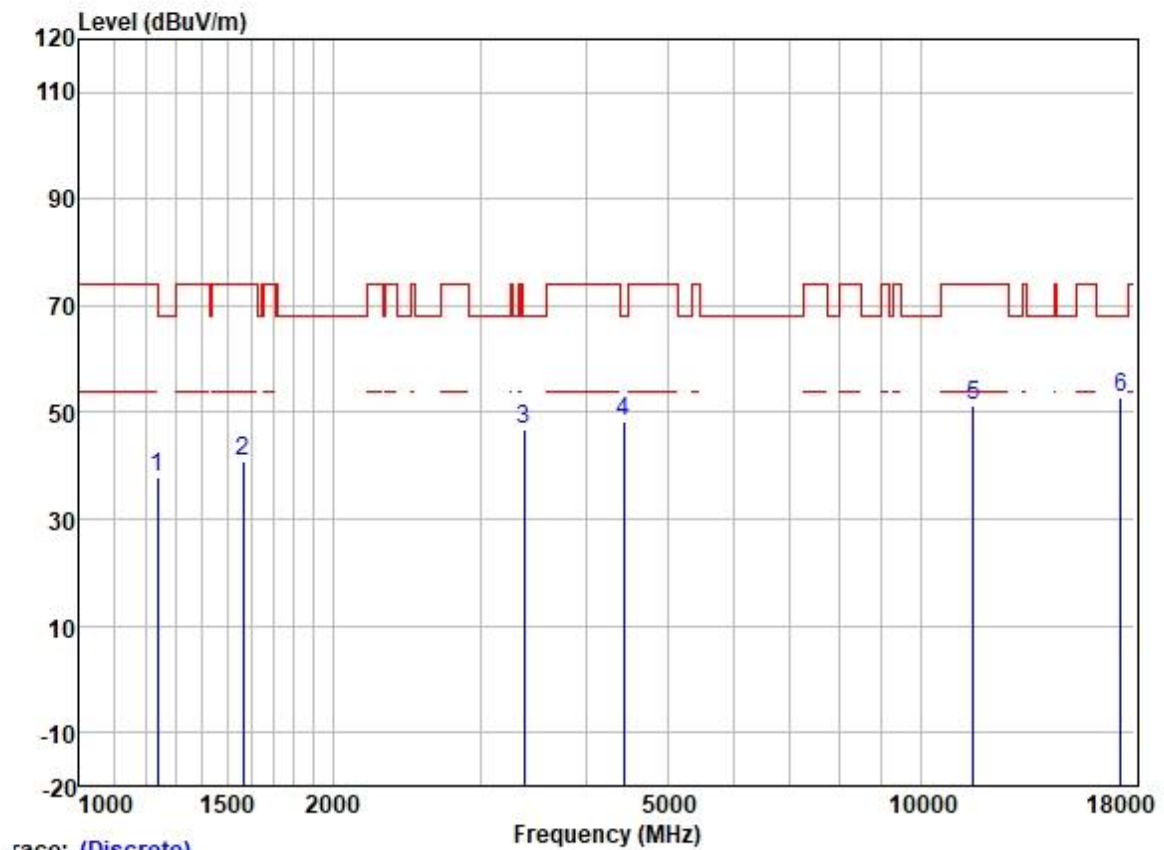
Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

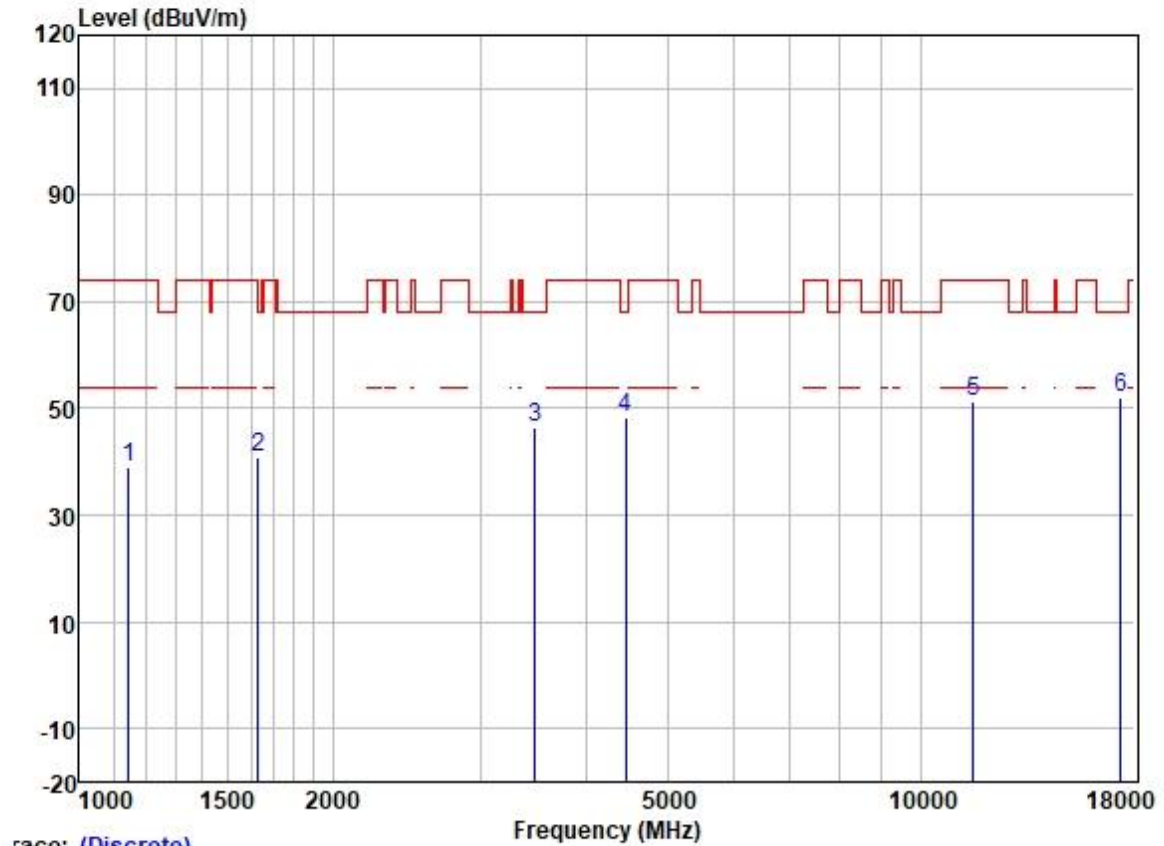
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1289.627	48.74	25.17	2.55	38.31	38.15	68.20	-30.05	VERTICAL Peak
2	1583.392	49.57	25.56	2.80	38.00	39.93	74.00	-34.07	VERTICAL Peak
3	3425.675	51.04	28.86	4.15	36.97	47.08	68.20	-21.12	VERTICAL Peak
4	4341.886	50.33	30.57	4.67	36.81	48.76	74.00	-25.24	VERTICAL Peak
5	11590.000	39.49	39.72	8.37	37.14	50.44	74.00	-23.56	VERTICAL Peak
6	17385.000	34.25	43.57	10.53	35.32	53.03	68.20	-15.17	VERTICAL Peak

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1238.483	49.11	24.96	2.30	38.35	38.02	74.00	-35.98	HORIZONTAL	Peak
2	1565.191	50.34	25.55	2.80	38.00	40.69	74.00	-33.31	HORIZONTAL	Peak
3	3376.523	50.87	28.83	4.09	36.99	46.80	68.20	-21.40	HORIZONTAL	Peak
4	4443.453	49.62	30.73	4.83	36.81	48.37	68.20	-19.83	HORIZONTAL	Peak
5	11550.000	40.21	39.84	8.40	37.14	51.31	74.00	-22.69	HORIZONTAL	Peak
6	17325.000	34.31	43.40	10.39	35.32	52.78	68.20	-15.42	HORIZONTAL	Peak

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1145.507	50.53	24.48	2.32	38.42	38.91	74.00	-35.09	VERTICAL Peak
2	1629.825	50.24	25.61	2.80	37.95	40.70	68.20	-27.50	VERTICAL Peak
3	3485.601	50.39	28.89	4.27	36.95	46.60	68.20	-21.60	VERTICAL Peak
4	4456.315	49.60	30.75	4.88	36.81	48.42	68.20	-19.78	VERTICAL Peak
5	11550.000	40.32	39.84	8.40	37.14	51.42	74.00	-22.58	VERTICAL Peak
6	17325.000	33.50	43.40	10.39	35.32	51.97	68.20	-16.23	VERTICAL Peak

8 Test Setup Photo

Refer to Appendix – Setup Photos for GZCR2110021230AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021230AT

10 Appendix

1. Duty Cycle

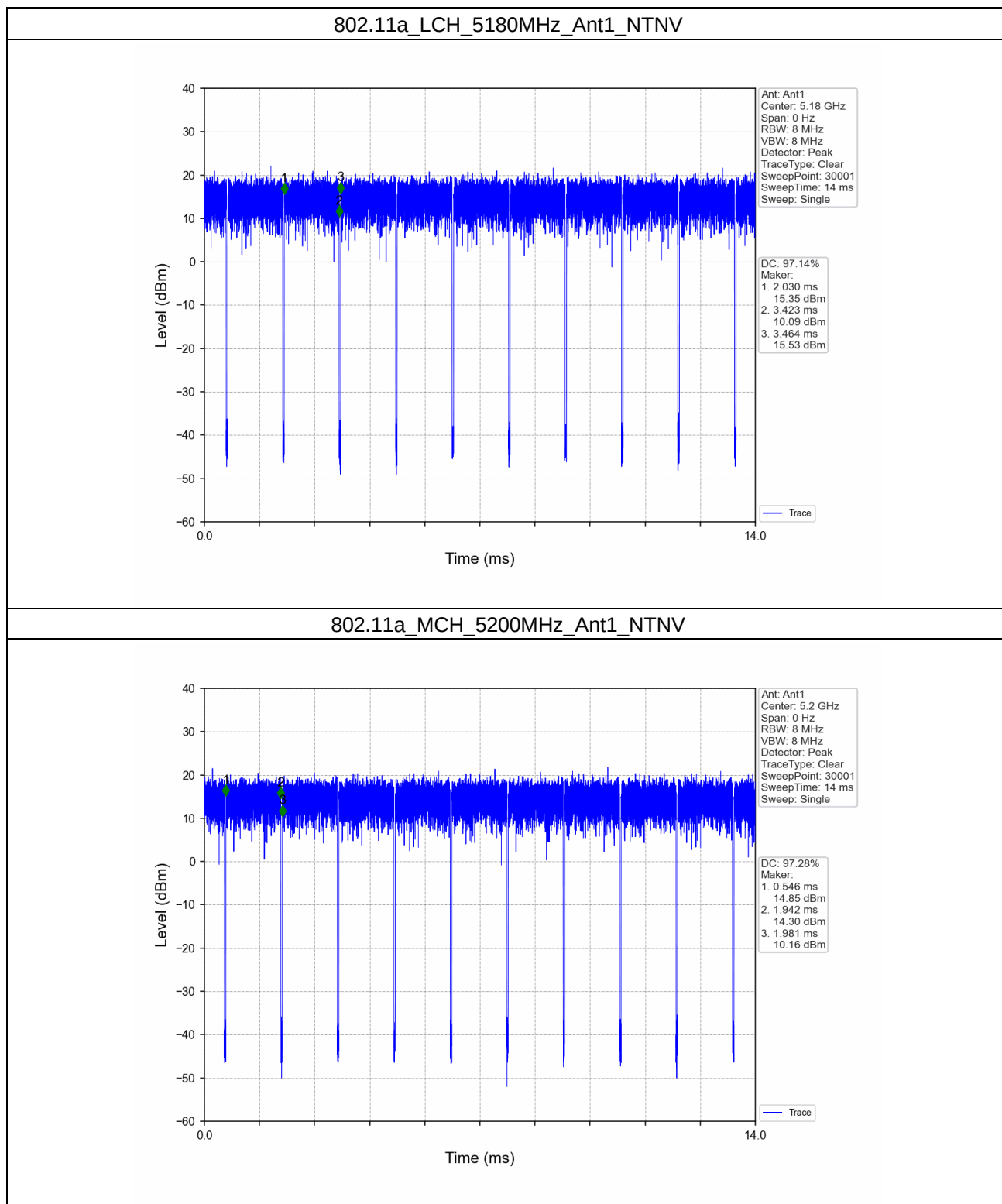
1.1 Ant1

1.1.1 Test Result

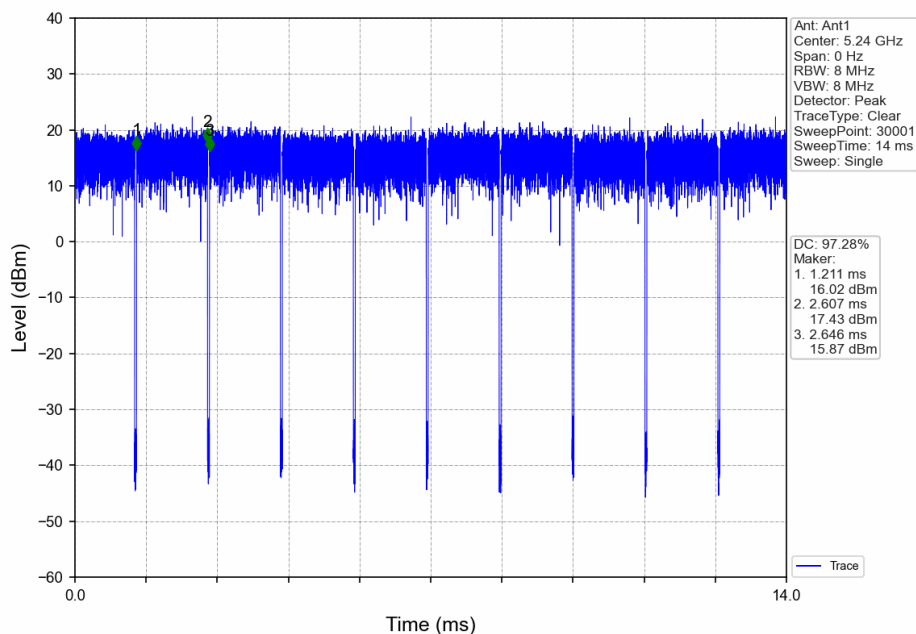
Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.393	1.434	97.14	0.13	0.03
		5200	1.396	1.435	97.28	0.12	0.03
		5240	1.396	1.435	97.28	0.12	0.03
		5260	1.394	1.435	97.14	0.13	0.03
		5300	1.396	1.434	97.35	0.12	0.03
		5320	2.064	2.083	99.09	0.04	0.04
		5500	1.394	1.434	97.21	0.12	0.03
		5580	1.396	1.435	97.28	0.12	0.03
		5700	1.394	1.434	97.21	0.12	0.03
		5745	1.394	1.435	97.14	0.13	0.03
		5785	1.393	1.434	97.14	0.13	0.03
		5825	1.395	1.434	97.28	0.12	0.03
802.11n (HT20)	MIMO	5180	1.919	1.938	99.02	0.04	0.03
		5200	1.919	1.938	99.02	0.04	0.03
		5240	1.919	1.939	98.97	0.05	0.03
		5260	1.920	1.939	99.02	0.04	0.03
		5300	1.920	1.940	98.97	0.05	0.03
		5320	1.919	1.938	99.02	0.04	0.03
		5500	1.919	1.938	99.02	0.04	0.03
		5580	1.919	1.939	98.97	0.05	0.03
		5700	1.920	1.939	99.02	0.04	0.03
		5745	1.920	1.939	99.02	0.04	0.03
		5785	1.919	1.938	99.02	0.04	0.03
		5825	1.919	1.939	98.97	0.05	0.03
802.11n (HT40)	MIMO	5190	0.944	0.963	98.03	0.09	0.03
		5230	0.944	0.963	98.03	0.09	0.03
		5270	0.944	0.963	98.03	0.09	0.00
		5310	0.944	0.963	98.03	0.09	0.03
		5510	0.944	0.964	97.93	0.09	0.03
		5550	0.944	0.963	98.03	0.09	0.03

		5670	0.943	0.963	97.92	0.09	0.03
		5755	0.943	0.963	97.92	0.09	0.03
		5795	0.944	0.963	98.03	0.09	0.00
802.11ac (VHT20)	MIMO	5180	1.932	1.951	99.03	0.04	0.03
		5200	1.932	1.951	99.03	0.04	0.03
		5240	1.931	1.951	98.97	0.04	0.03
		5260	1.931	1.951	98.97	0.04	0.03
		5300	1.932	1.950	99.08	0.04	0.00
		5320	1.932	1.951	99.03	0.04	0.03
		5500	1.931	1.950	99.03	0.04	0.03
		5580	1.932	1.951	99.03	0.04	0.03
		5700	1.931	1.950	99.03	0.04	0.03
		5745	1.932	2.270	85.11	0.70	13.91
		5785	1.932	1.952	98.98	0.04	0.03
		5825	1.932	1.951	99.03	0.04	0.03
802.11ac (VHT40)	MIMO	5190	0.952	0.971	98.04	0.09	0.00
		5230	0.952	0.971	98.04	0.09	0.03
		5270	0.952	0.972	97.94	0.09	0.03
		5310	0.952	0.971	98.04	0.09	0.00
		5510	0.952	0.971	98.04	0.09	0.03
		5550	0.952	0.971	98.04	0.09	0.03
		5670	0.952	0.971	98.04	0.09	0.03
		5755	0.952	0.971	98.04	0.09	0.03
		5795	0.952	0.971	98.04	0.09	0.00
802.11ac (VHT80)	MIMO	5210	0.462	0.479	96.45	0.16	0.03
		5290	0.462	0.480	96.25	0.17	0.03
		5530	0.462	0.479	96.45	0.16	0.07
		5610	0.463	0.480	96.46	0.16	0.00
		5775	0.462	0.479	96.45	0.16	0.03

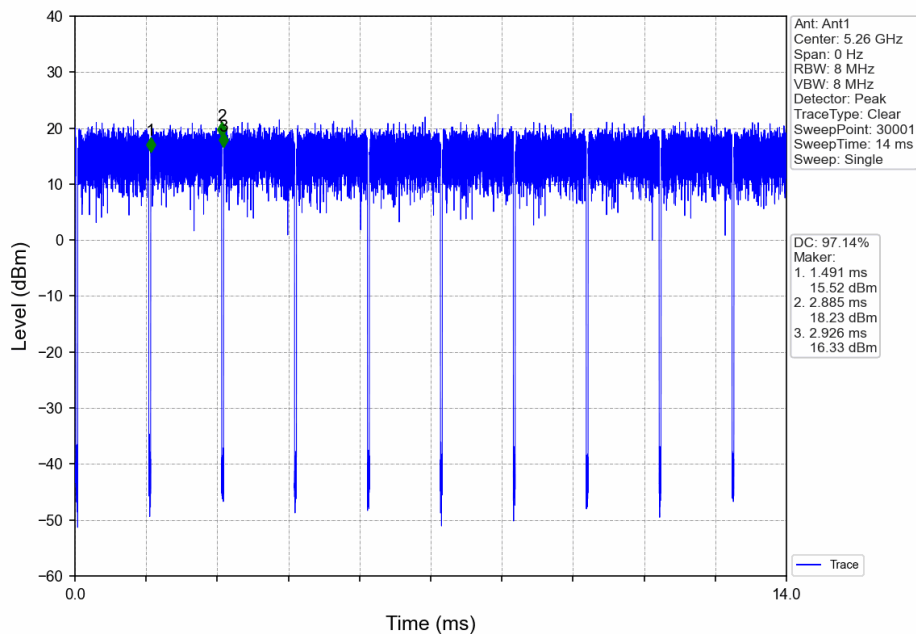
1.1.2 Test Graph



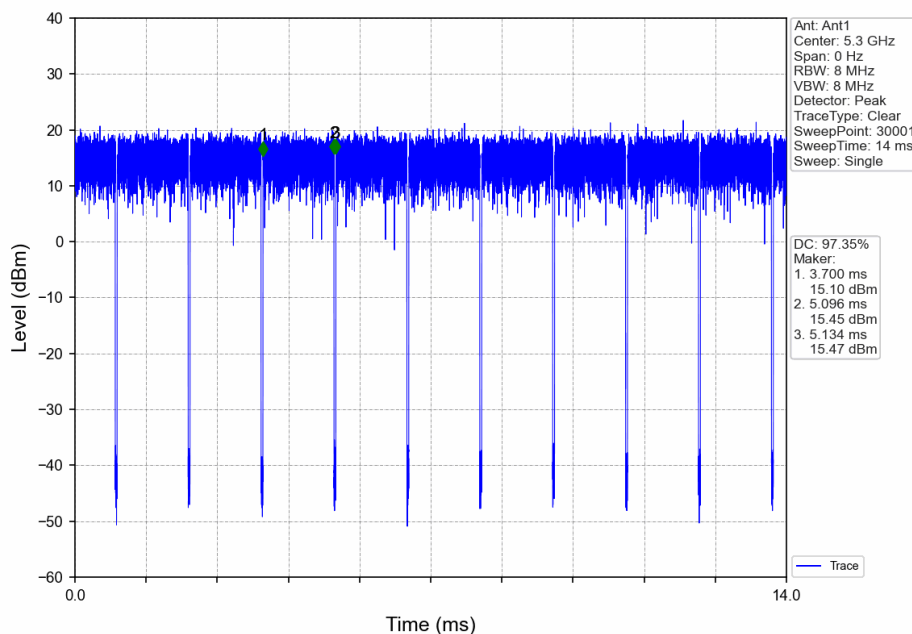
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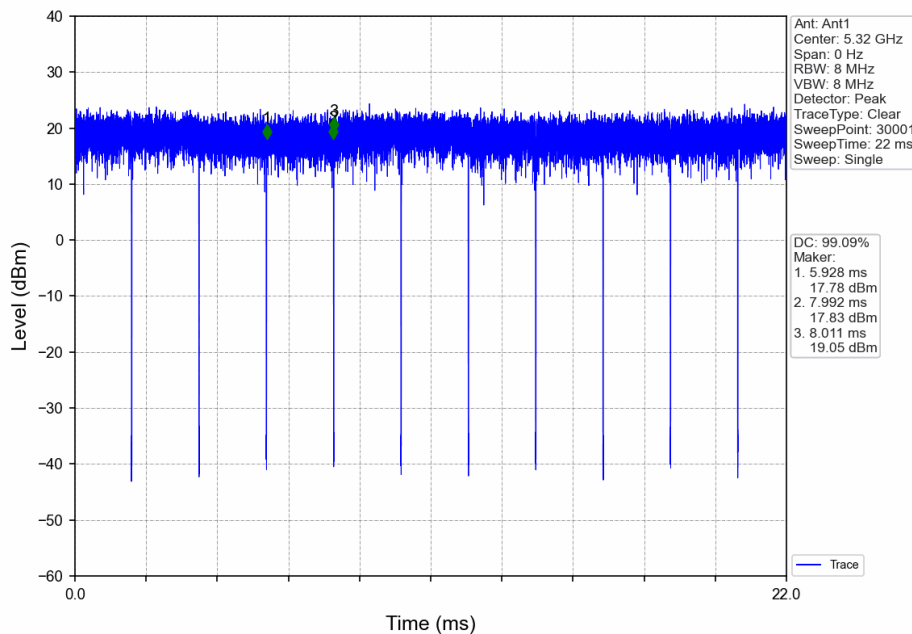
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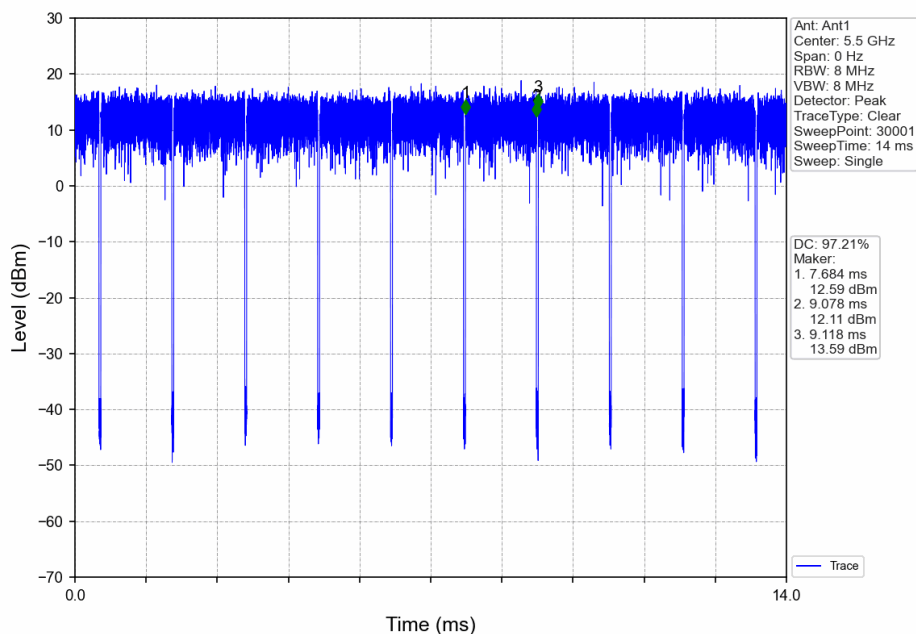
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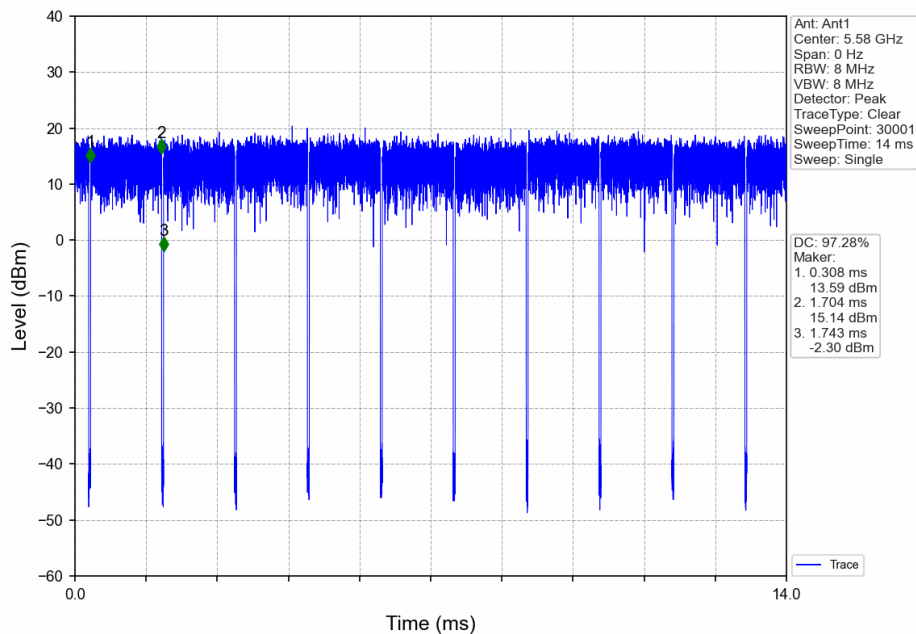
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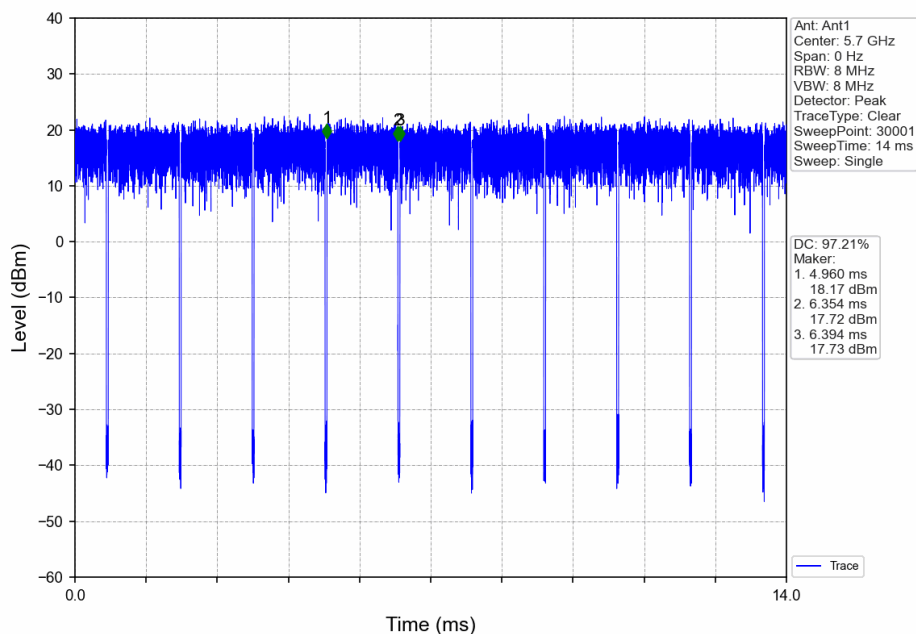
802.11a_LCH_5500MHz_Ant1_NTNV



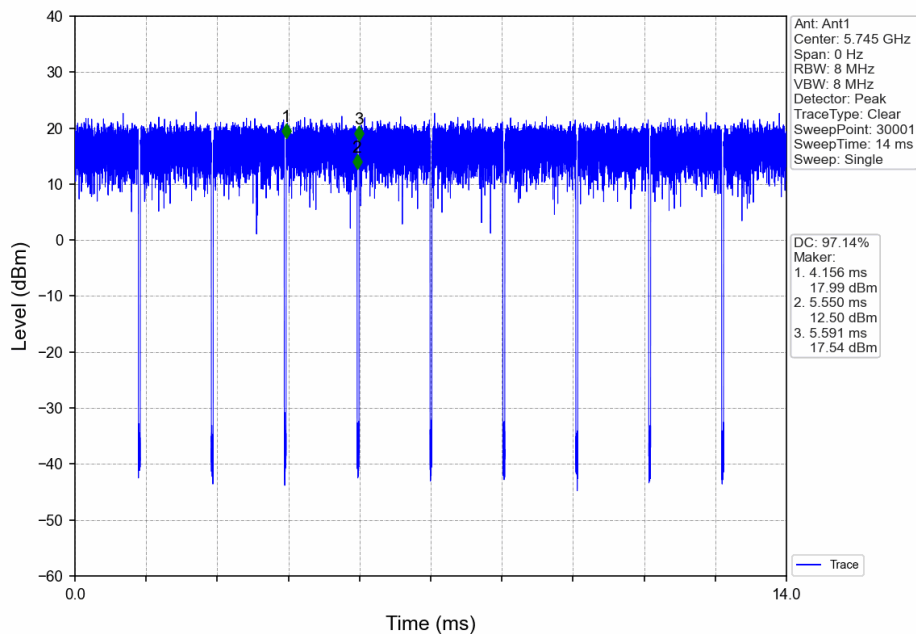
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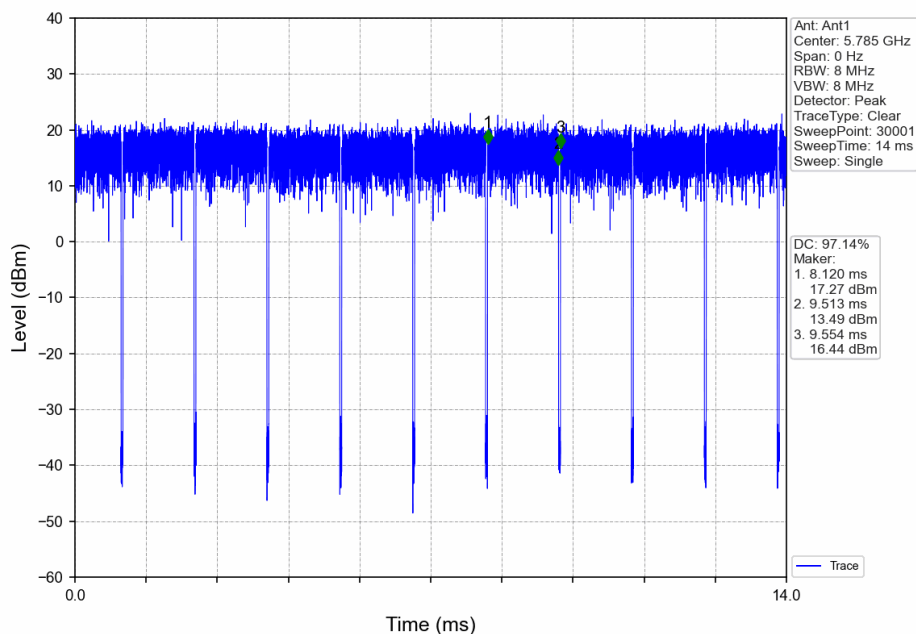
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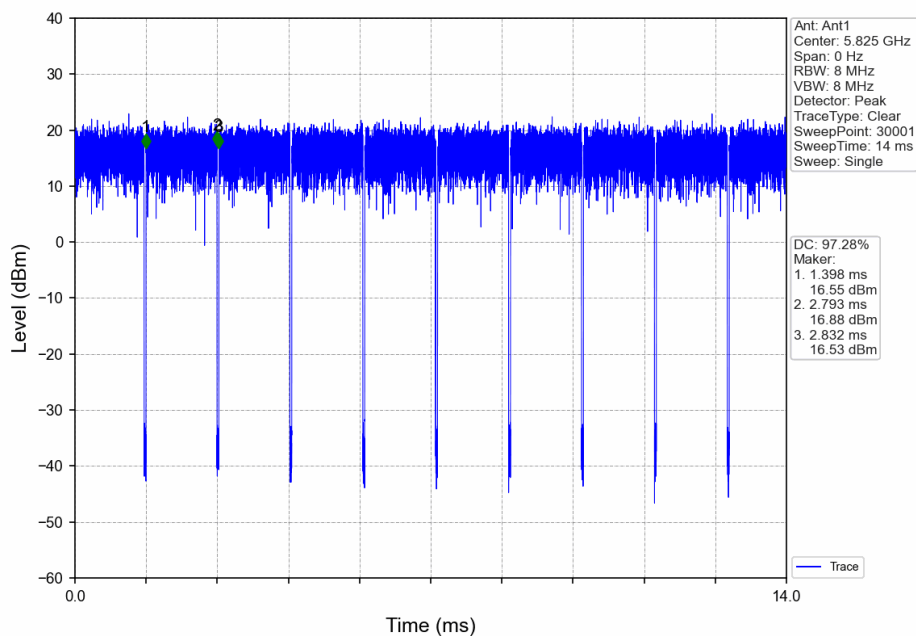
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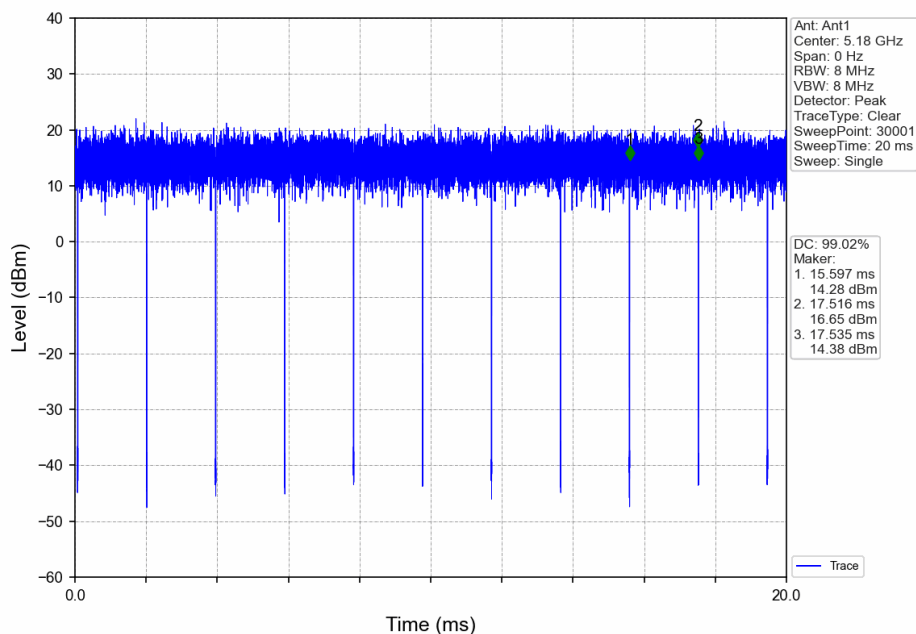
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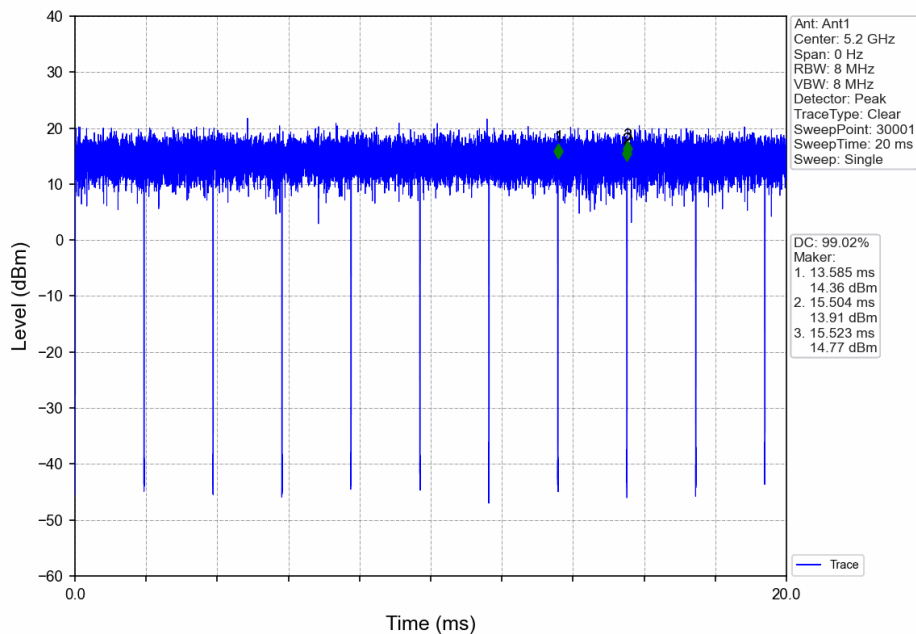
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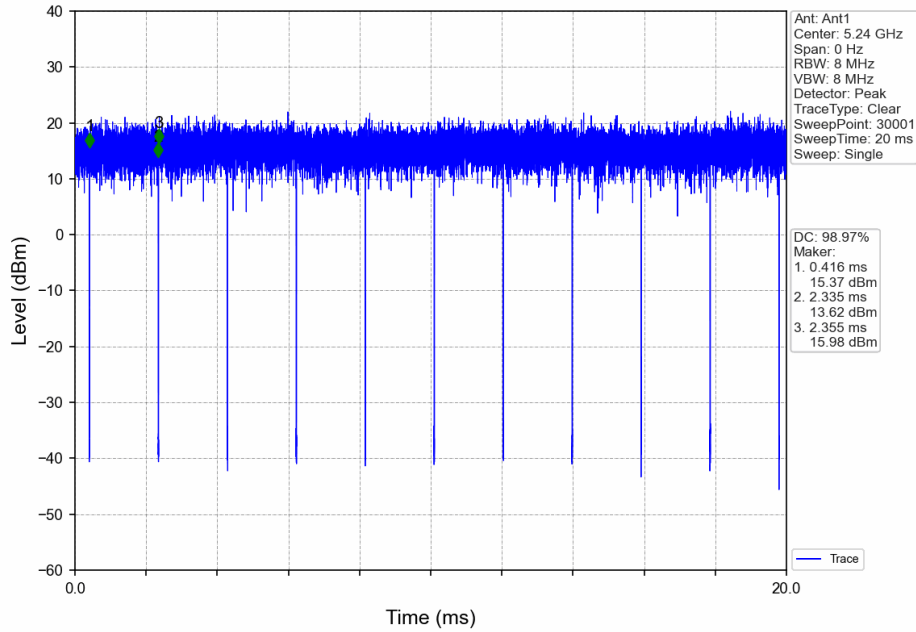
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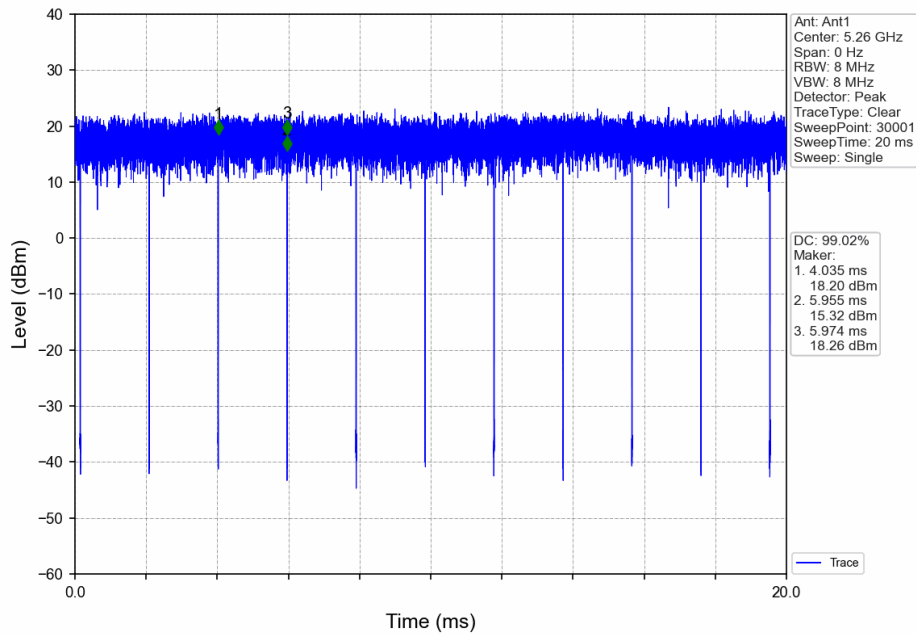
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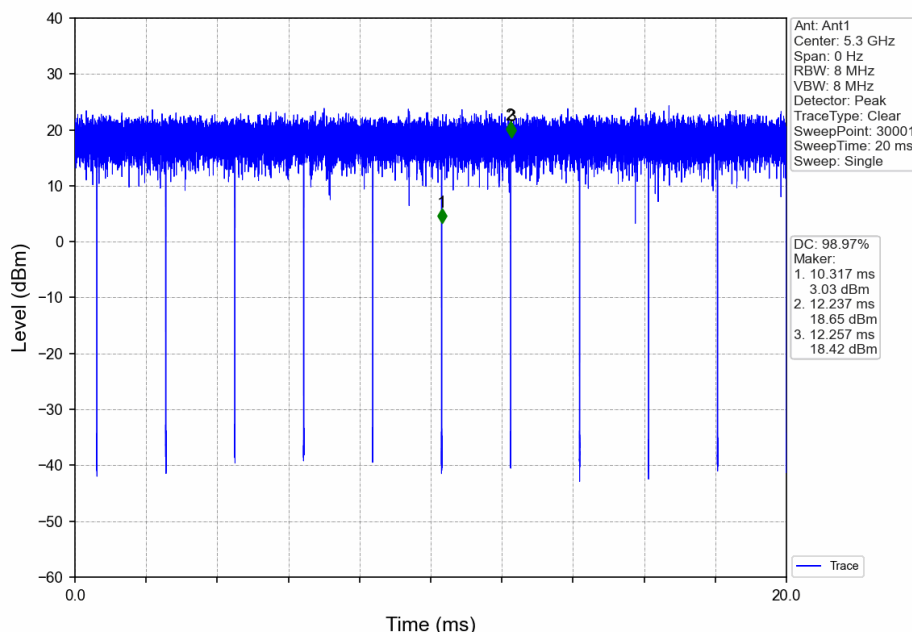
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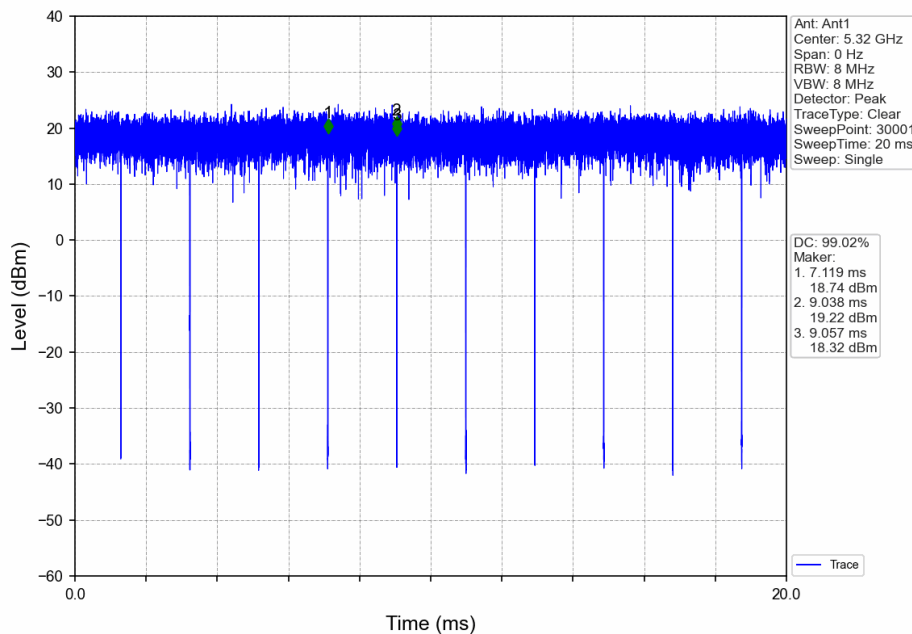
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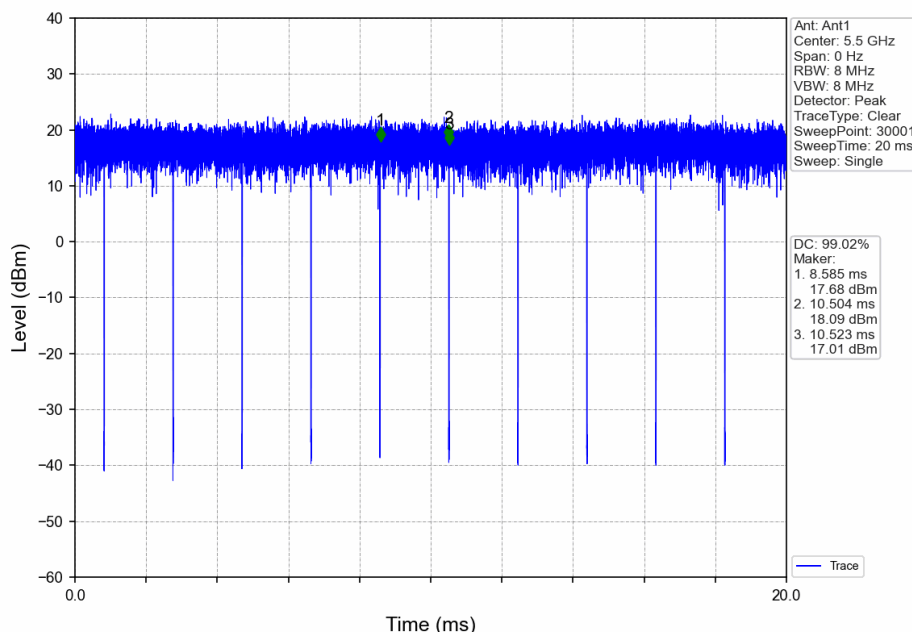
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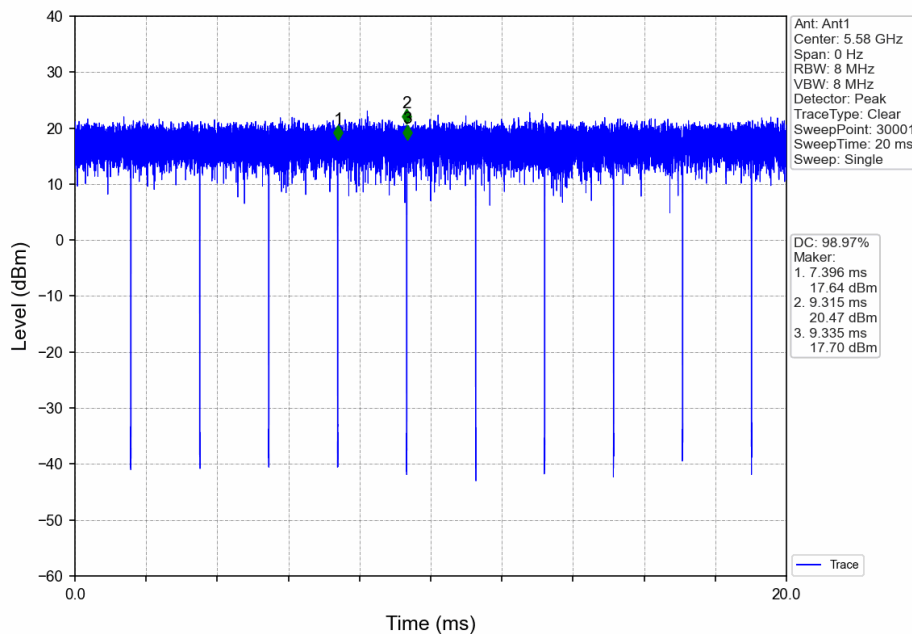
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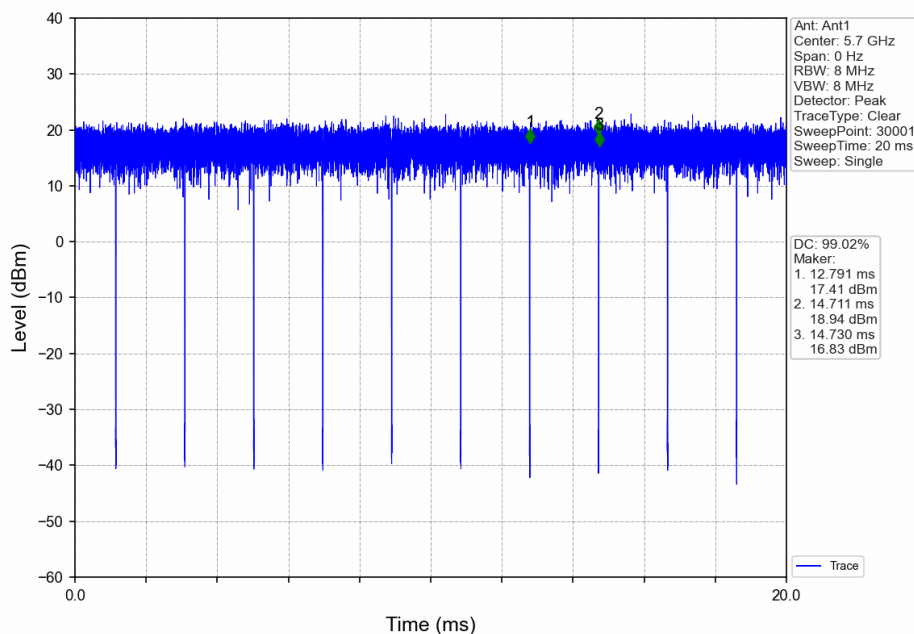
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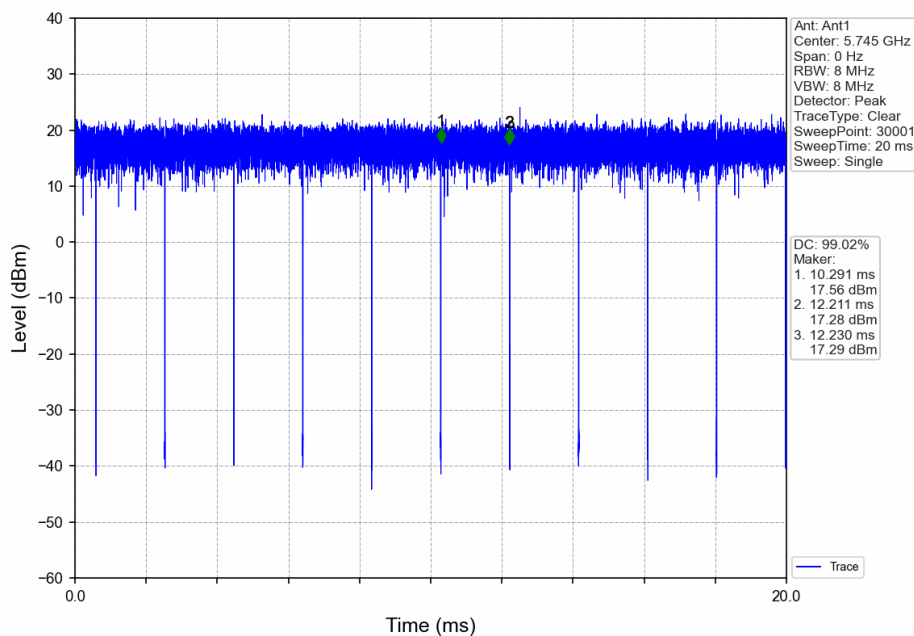
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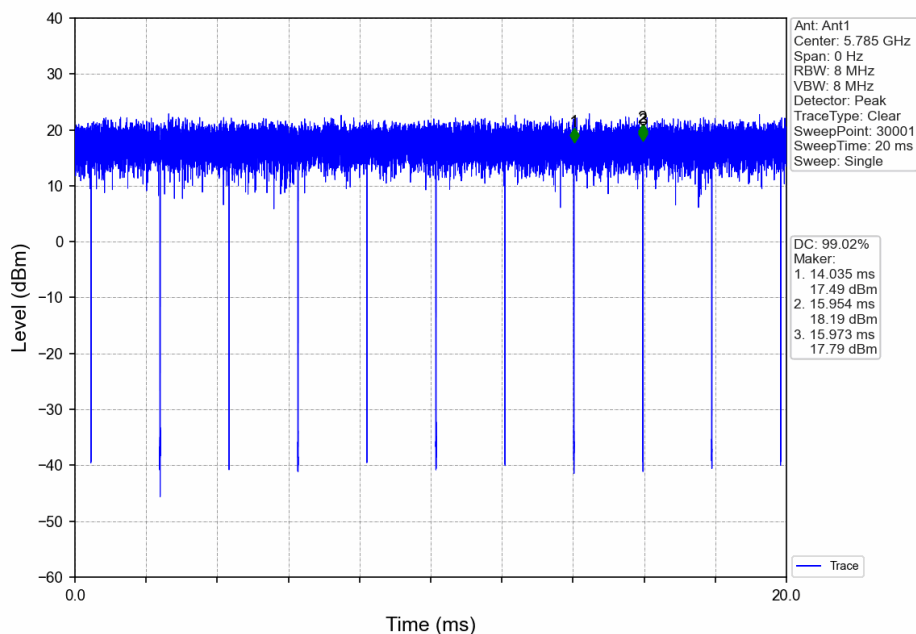
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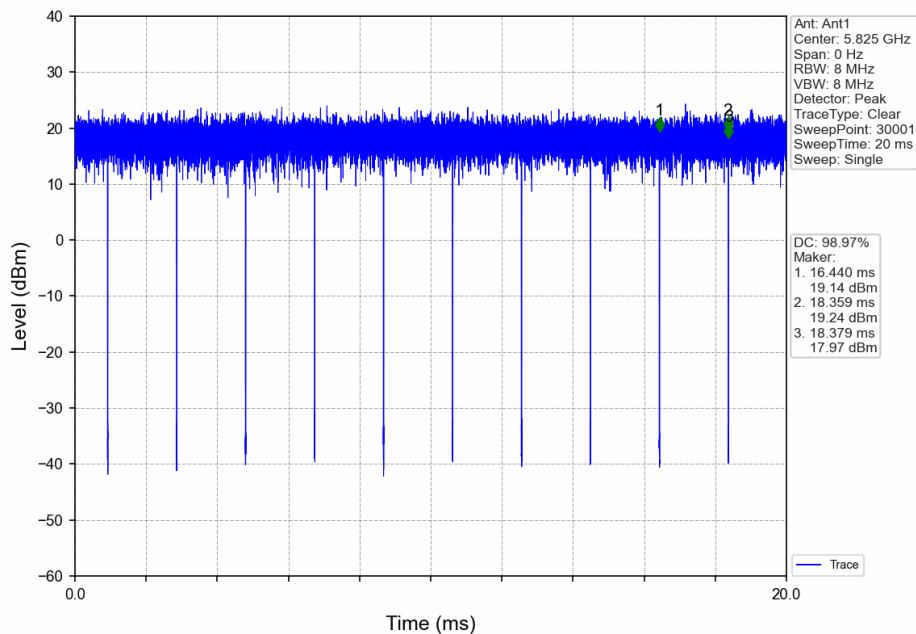
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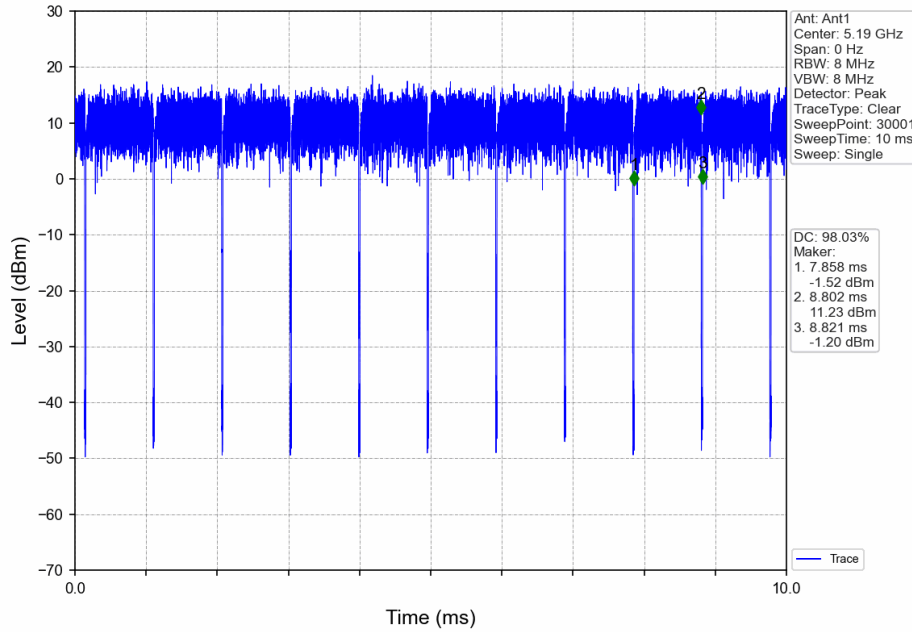
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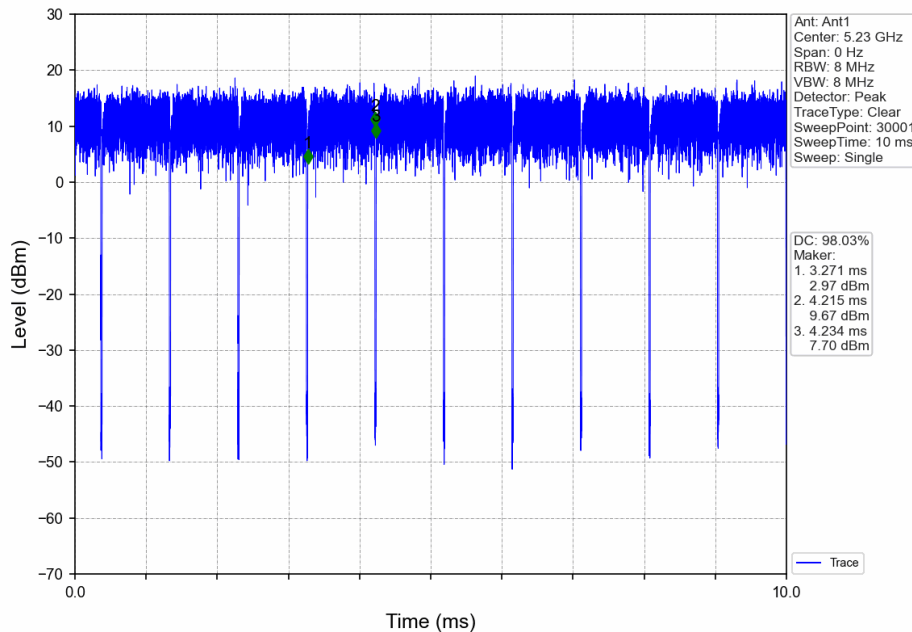
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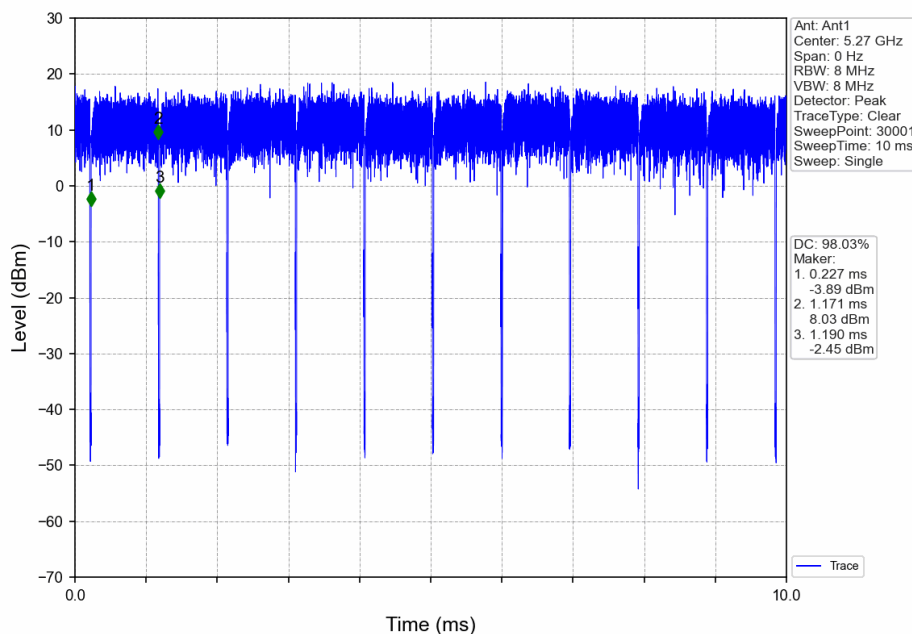


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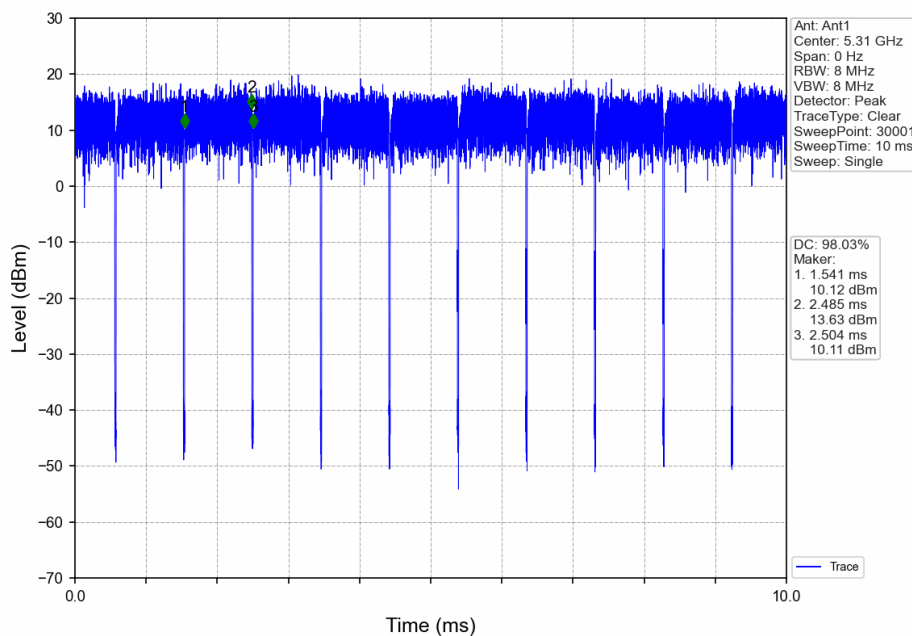


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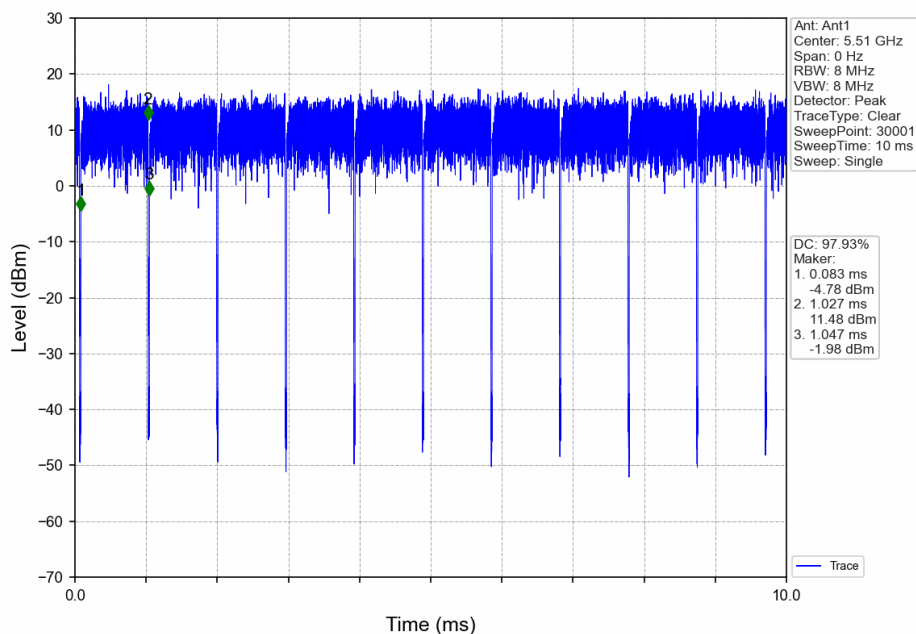
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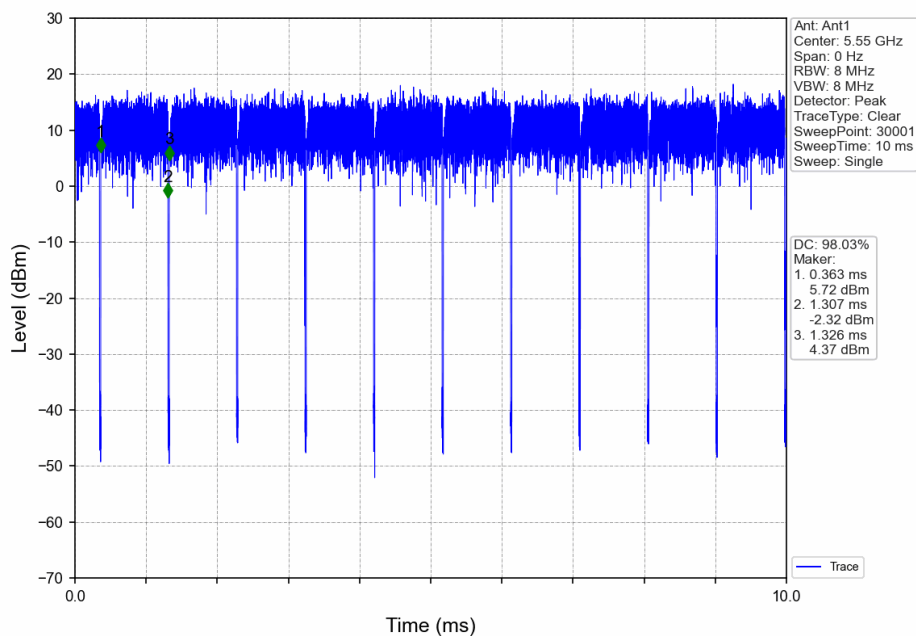
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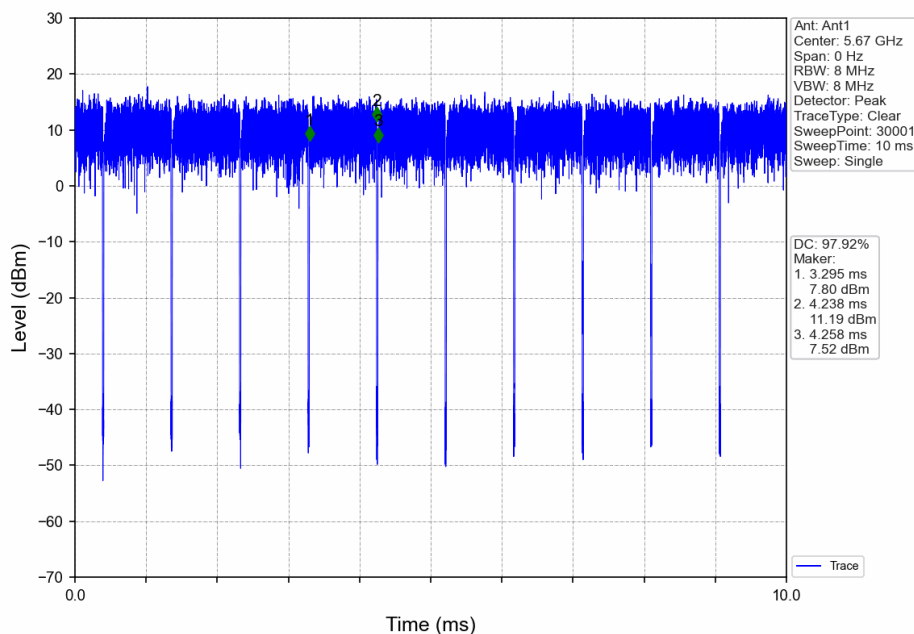
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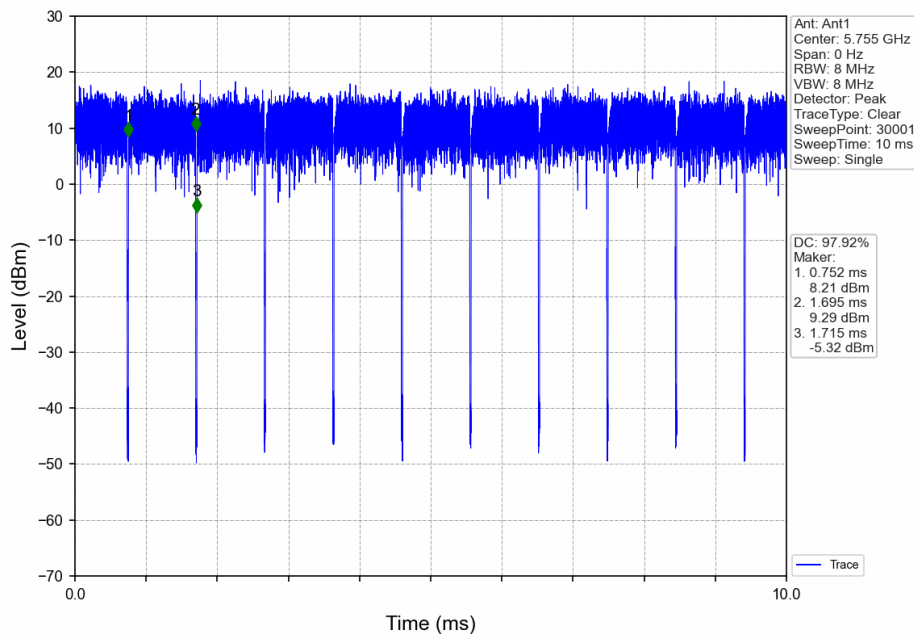
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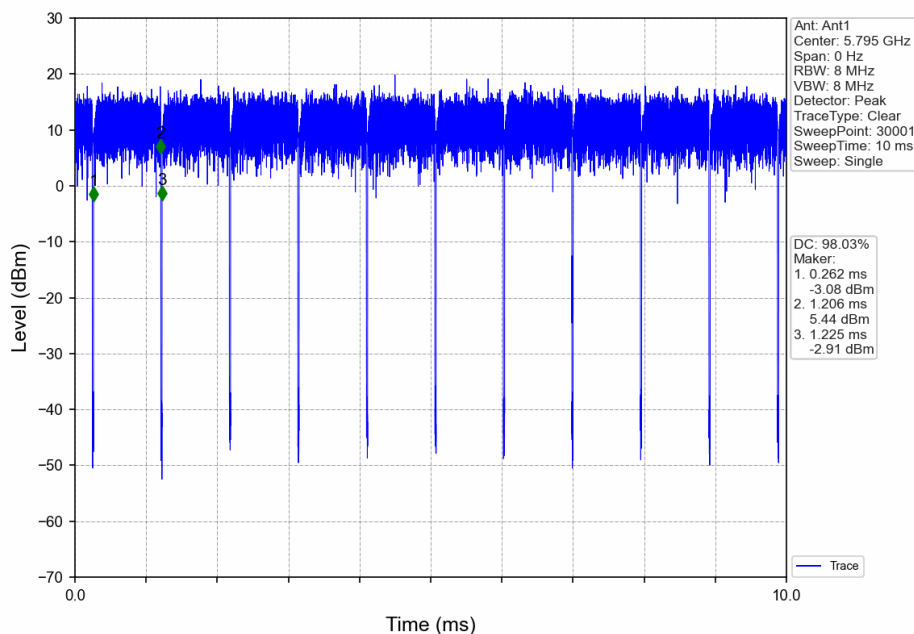
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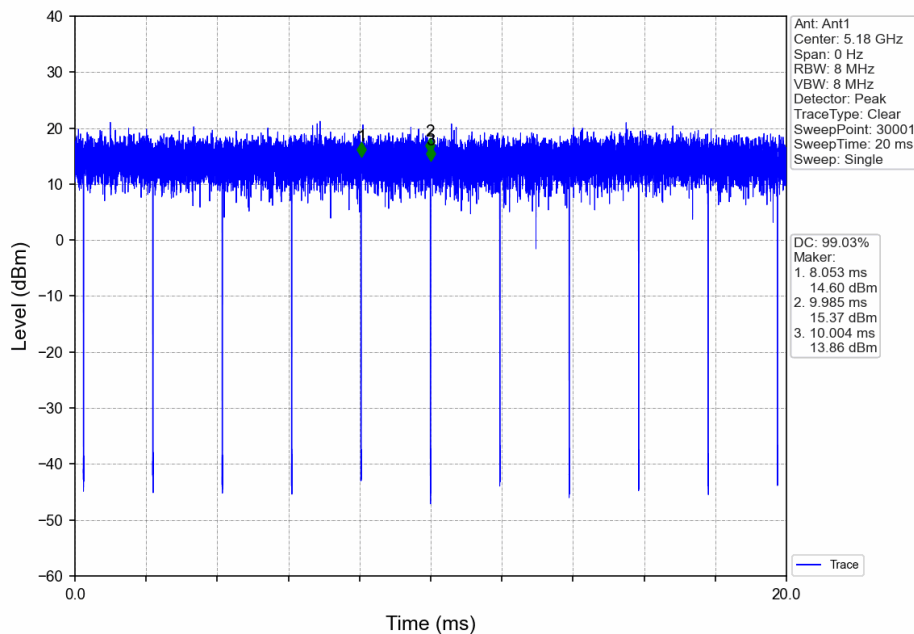
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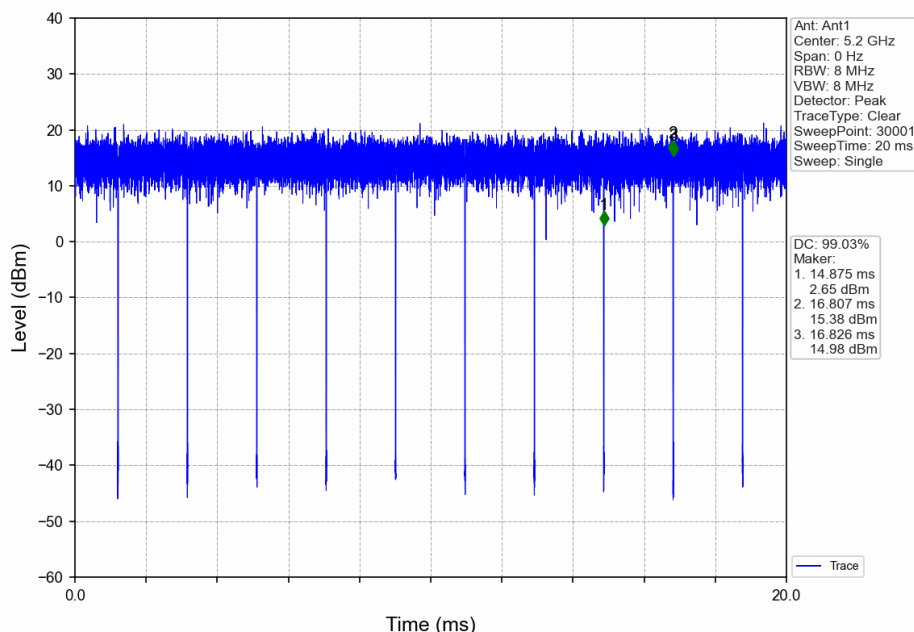
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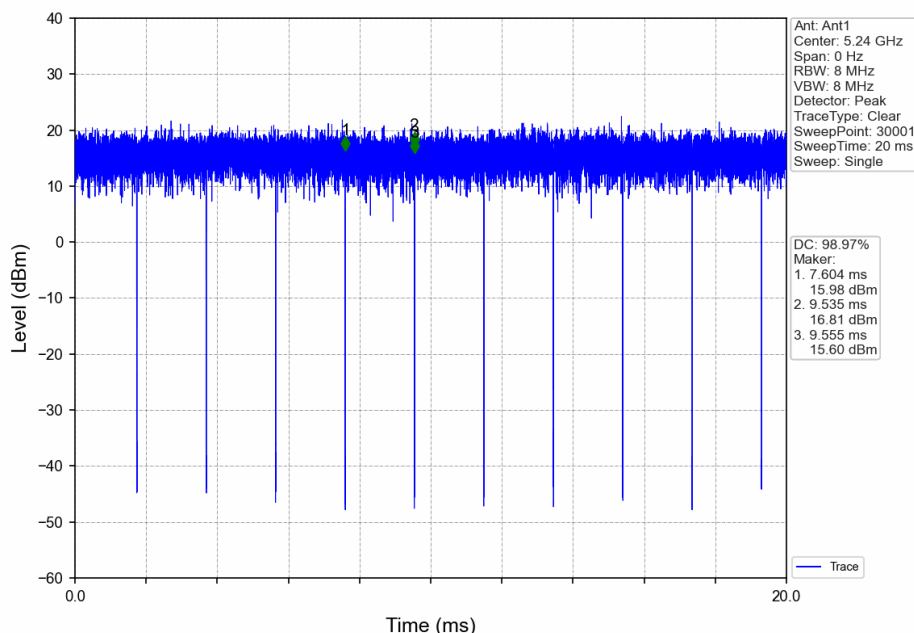
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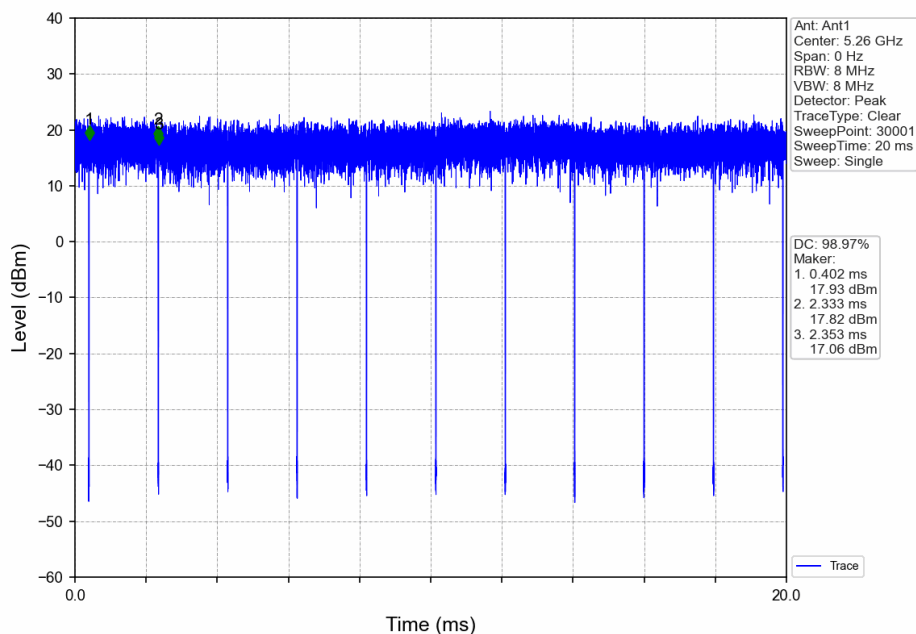
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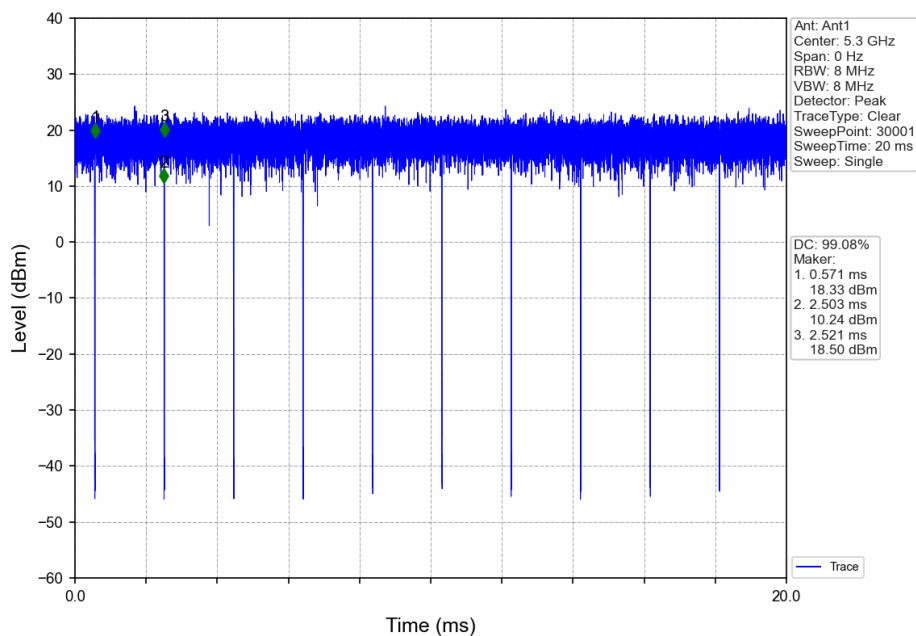
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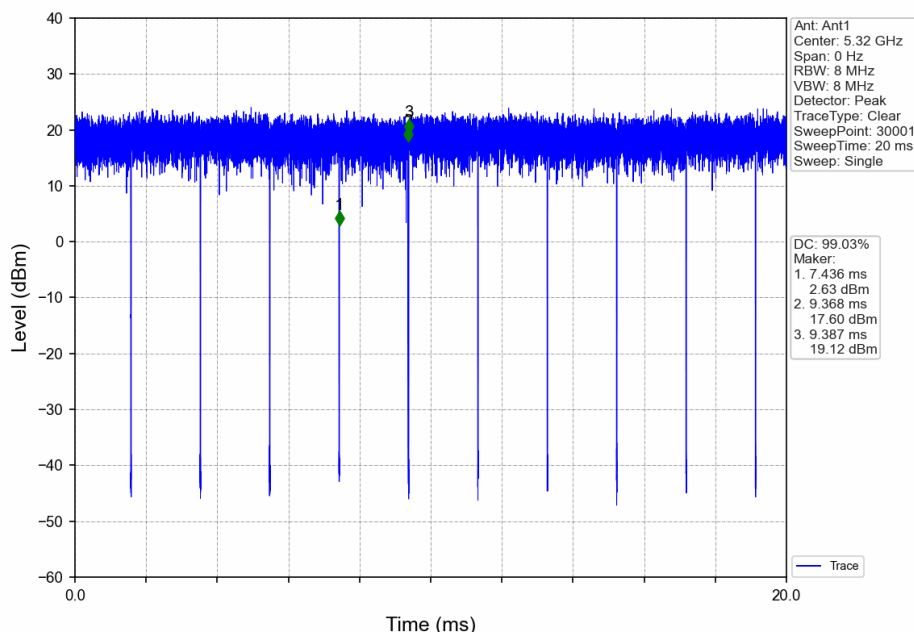
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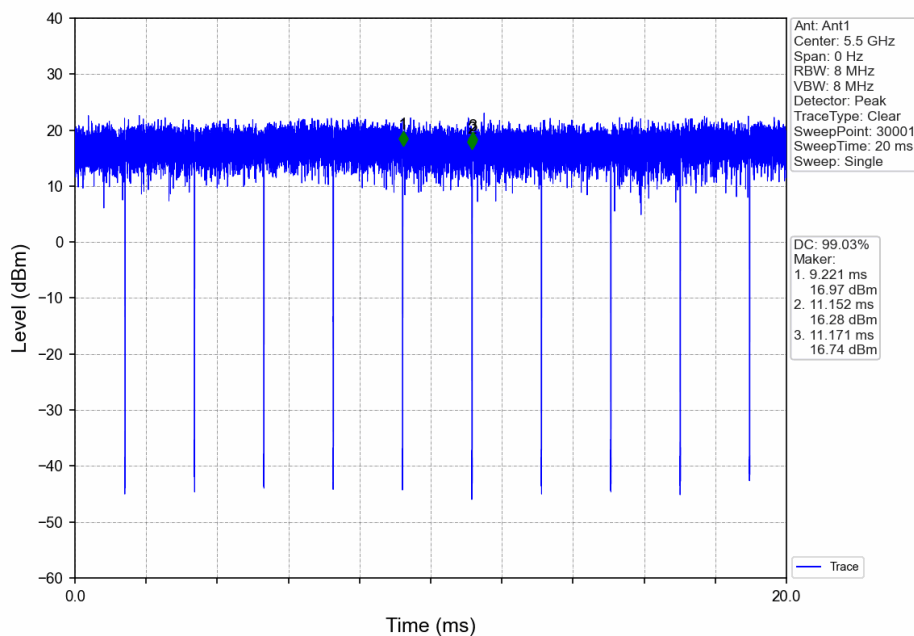
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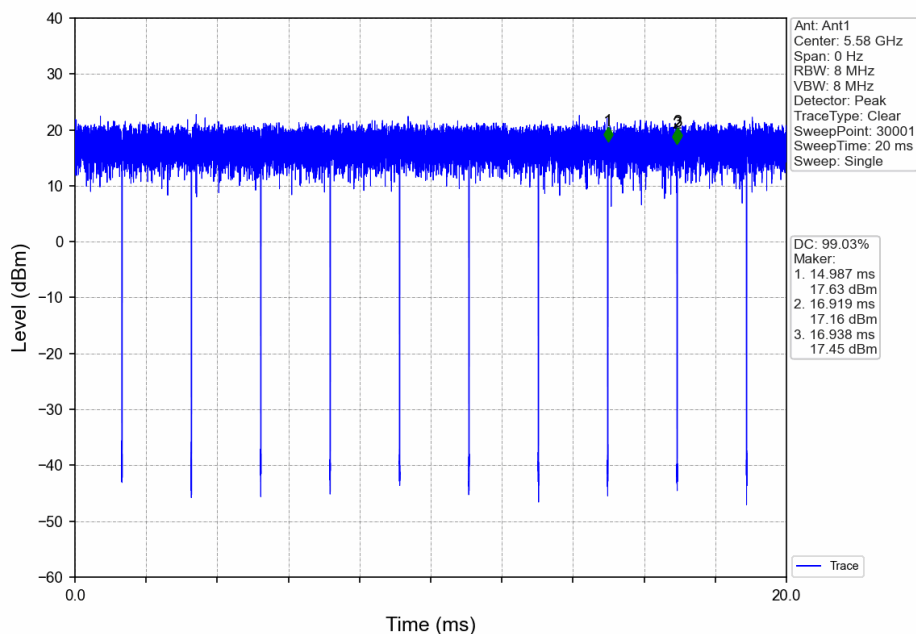
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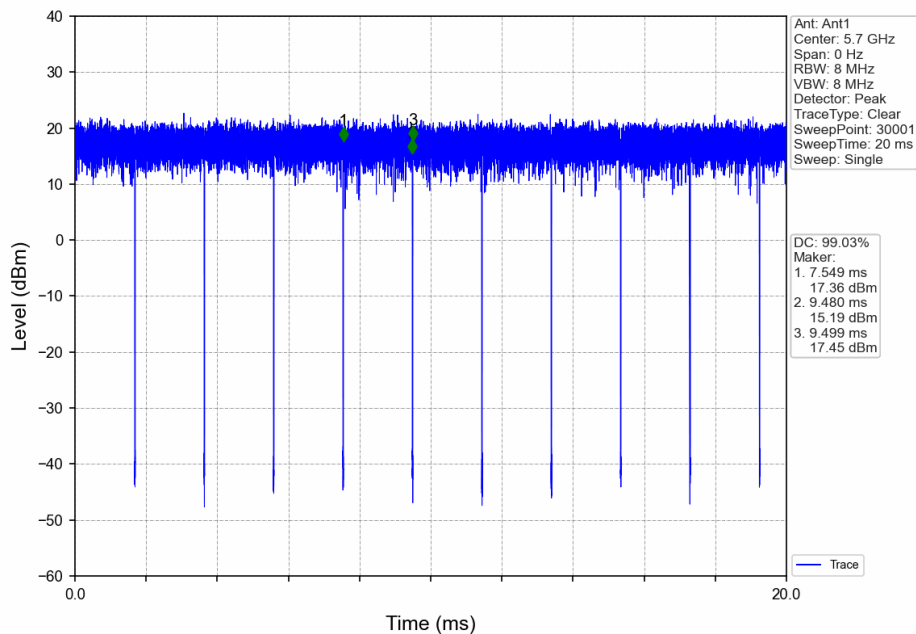
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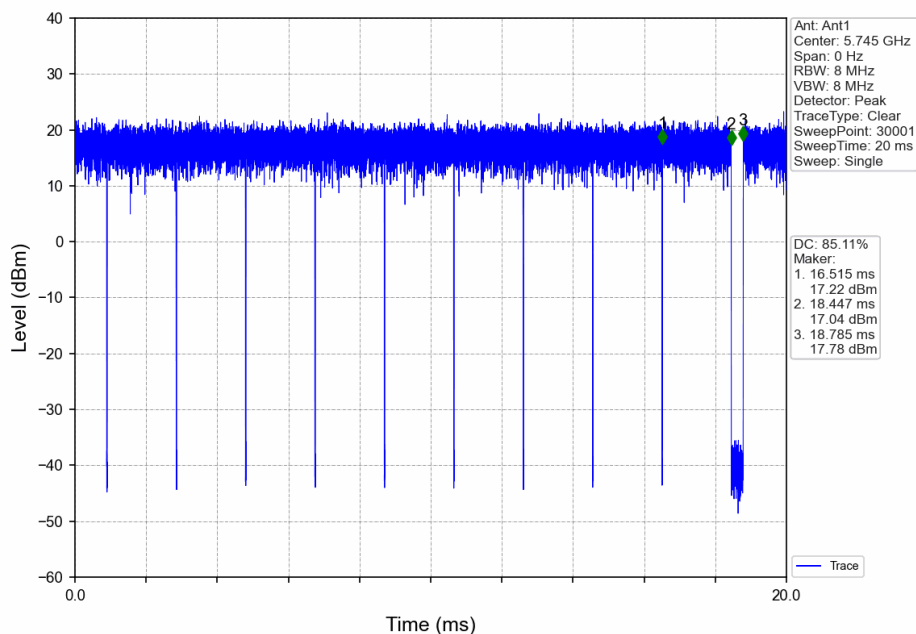
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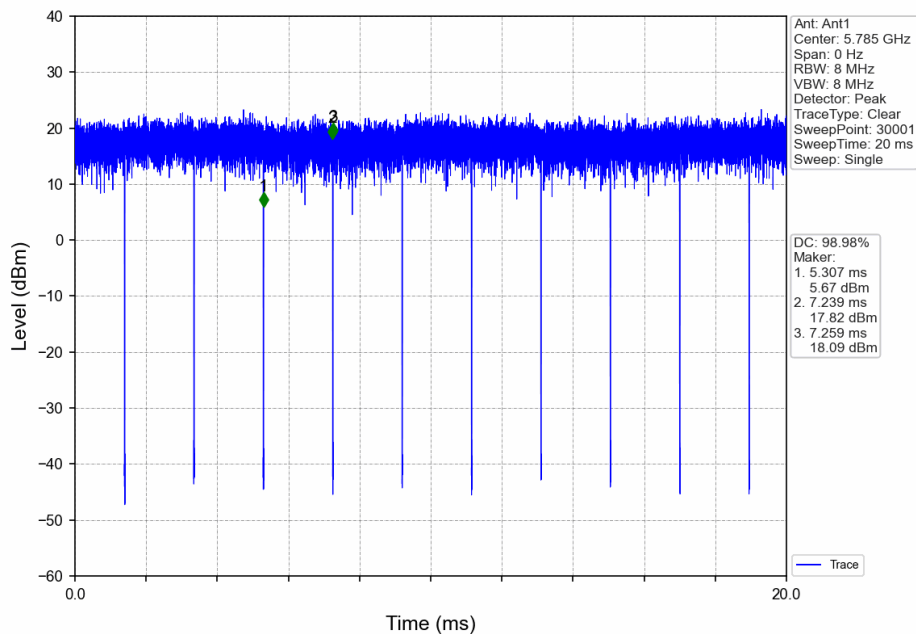
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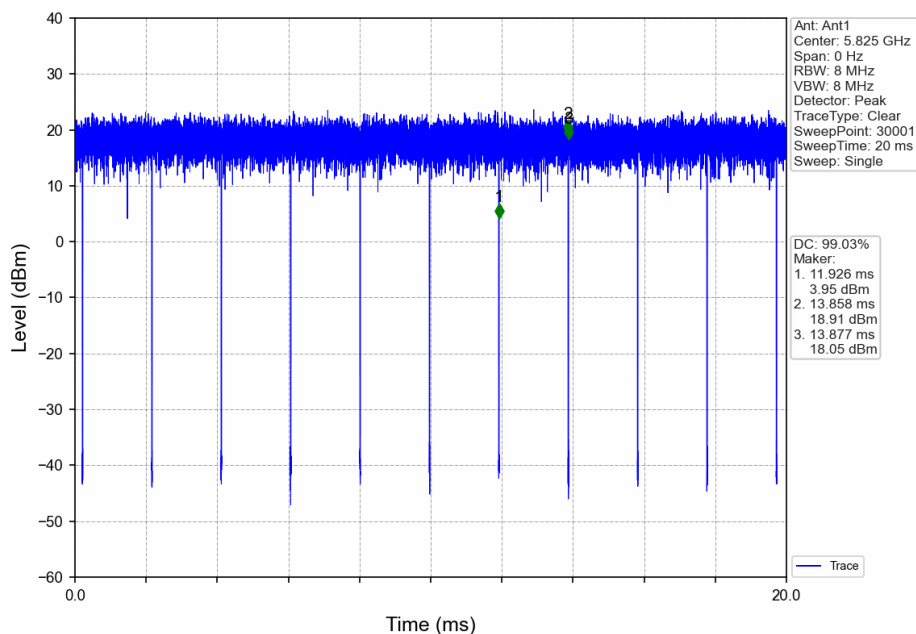
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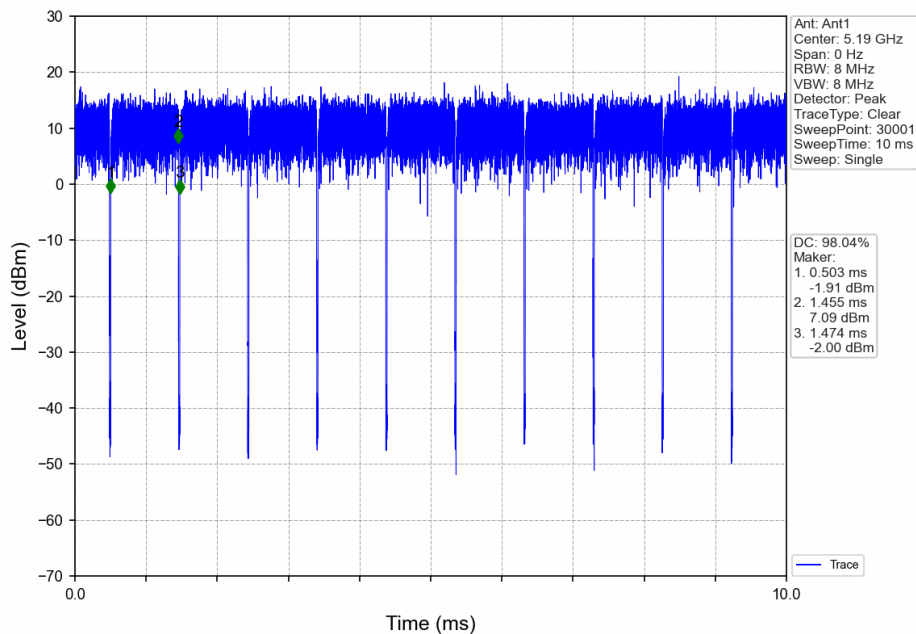
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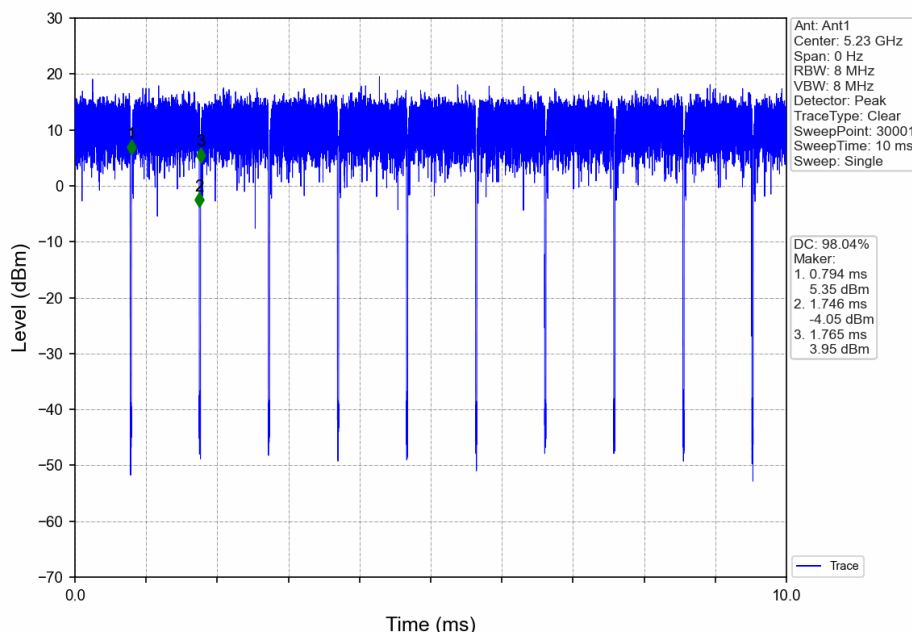
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



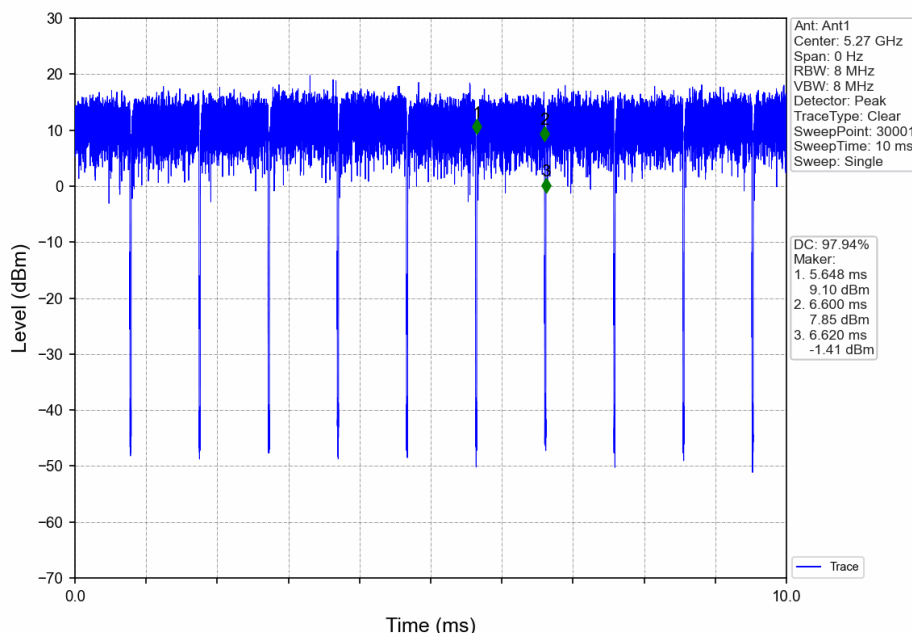
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



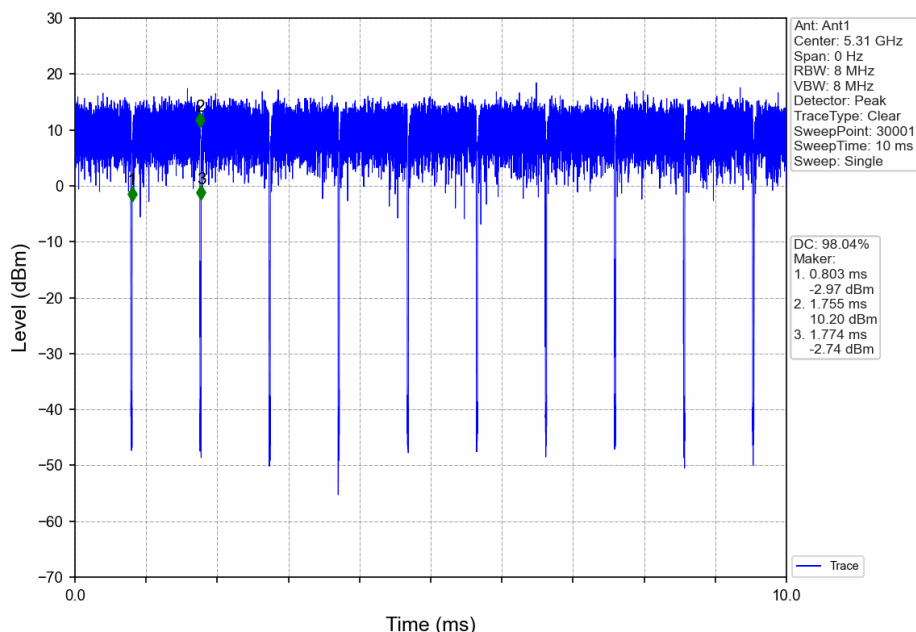
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



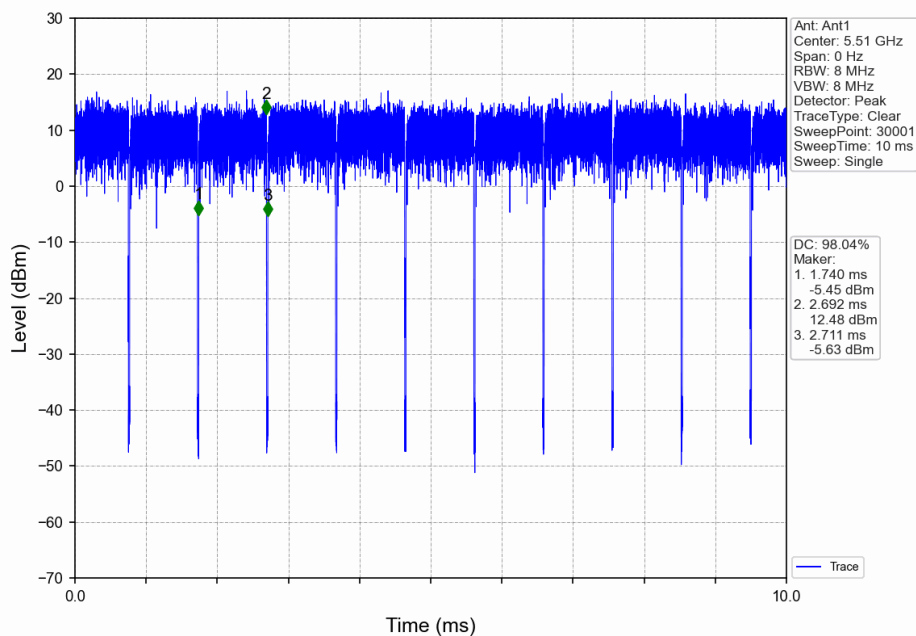
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



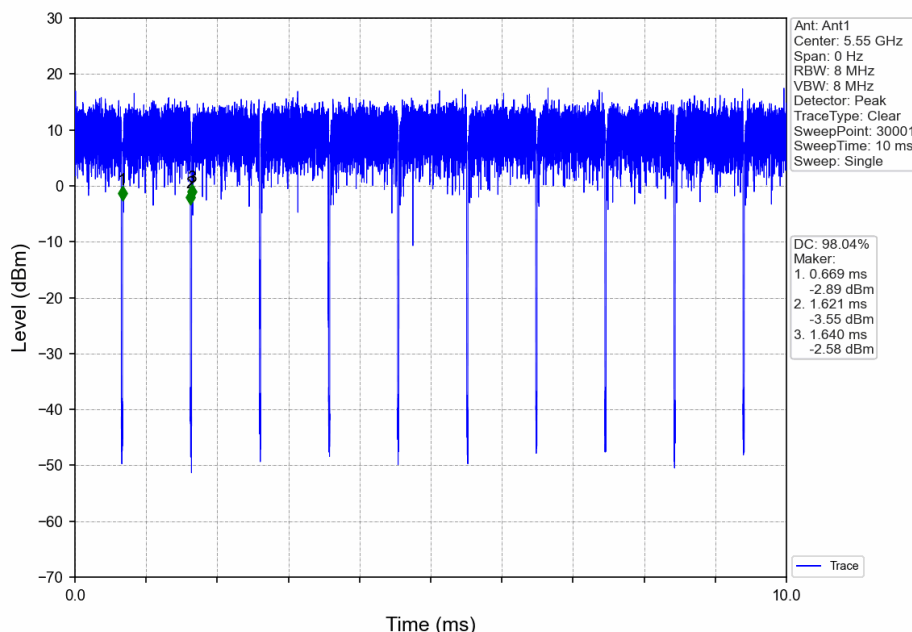
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



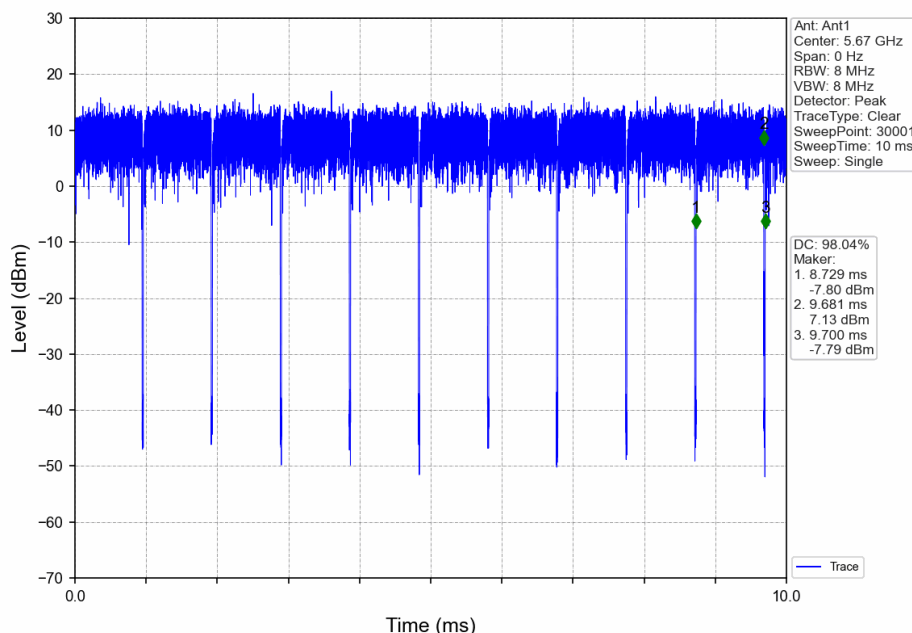
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



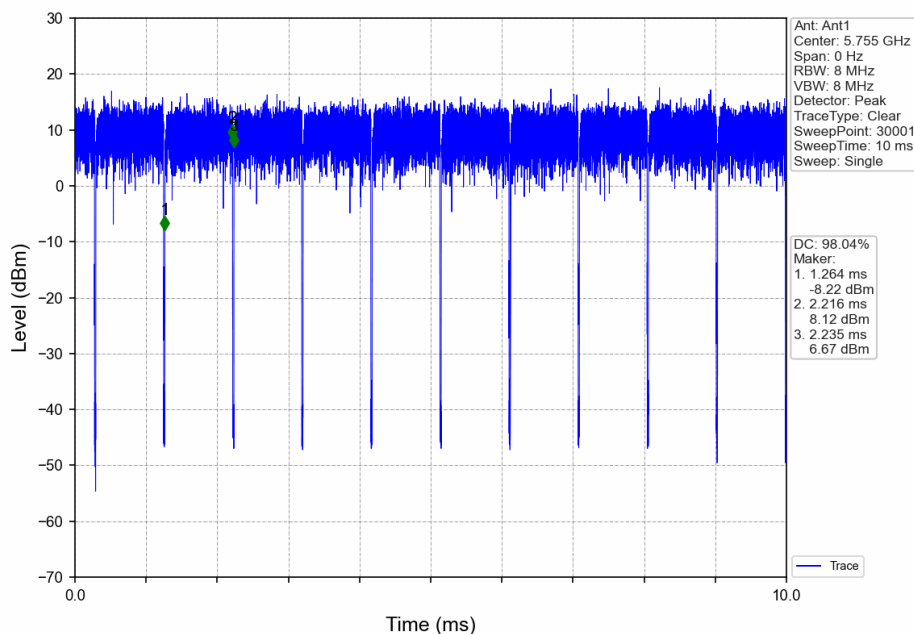
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



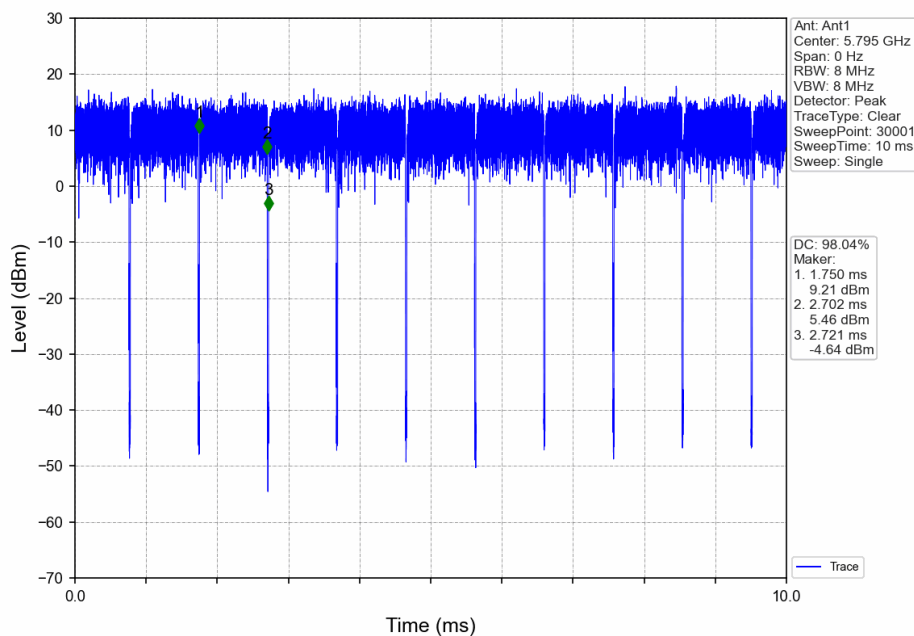
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



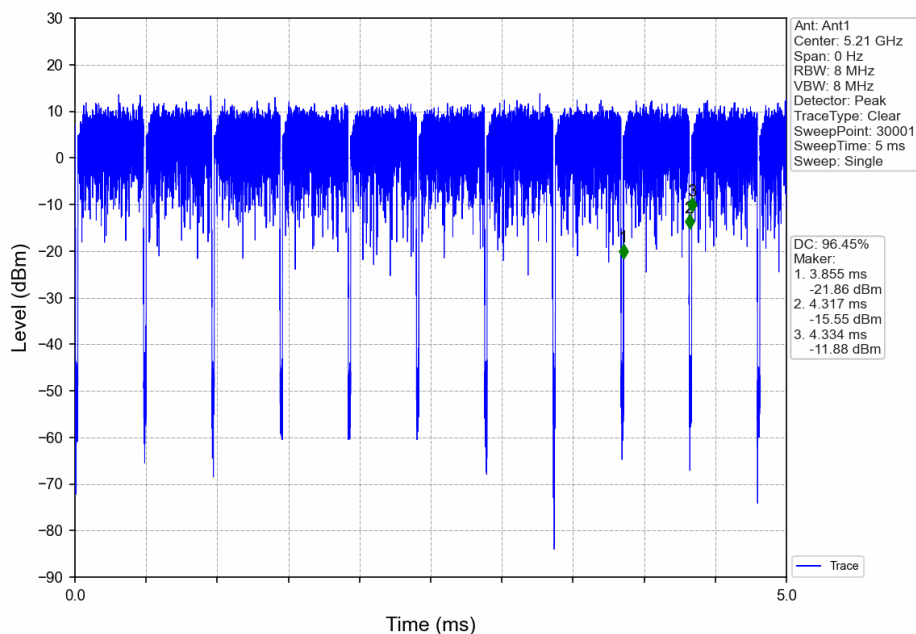
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



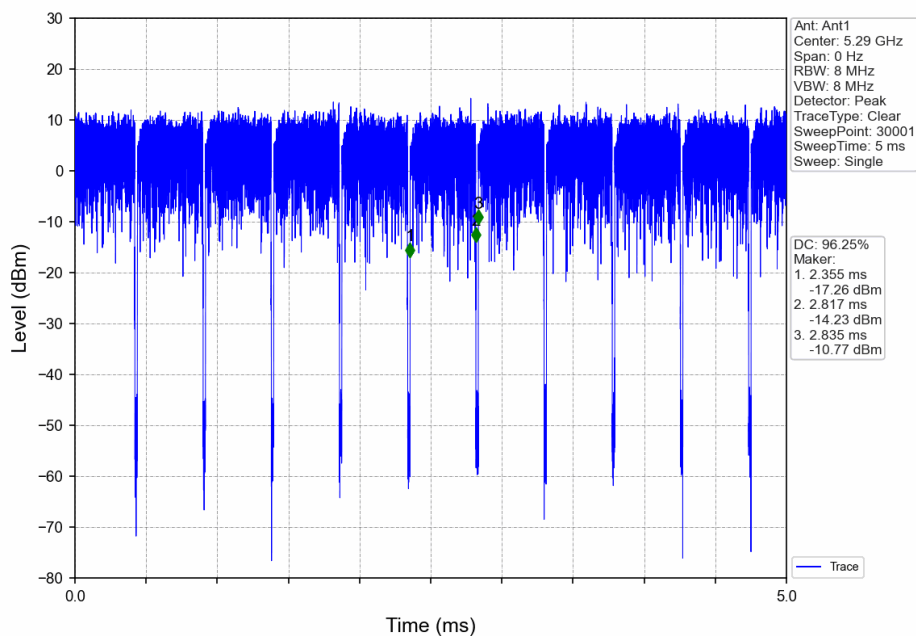
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



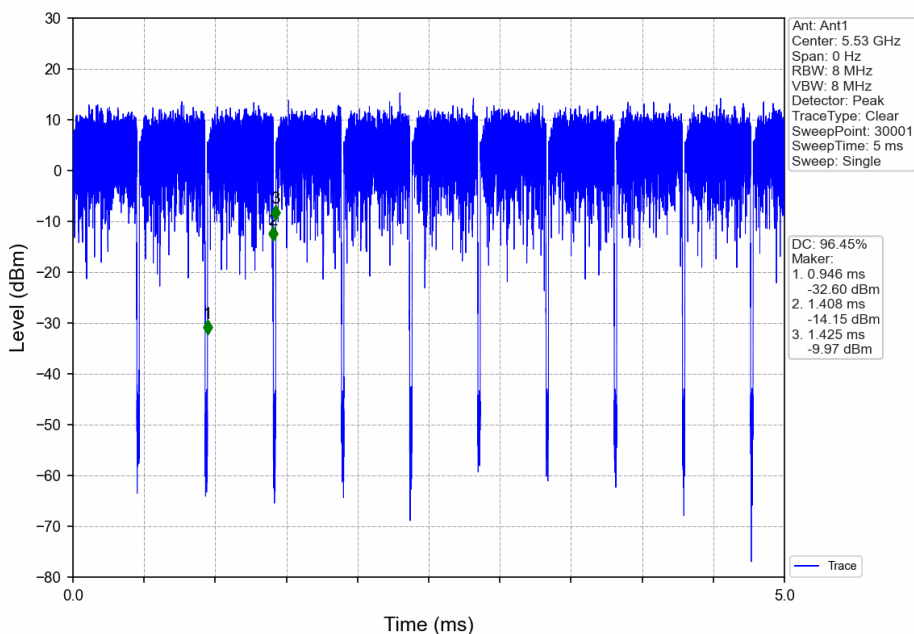
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



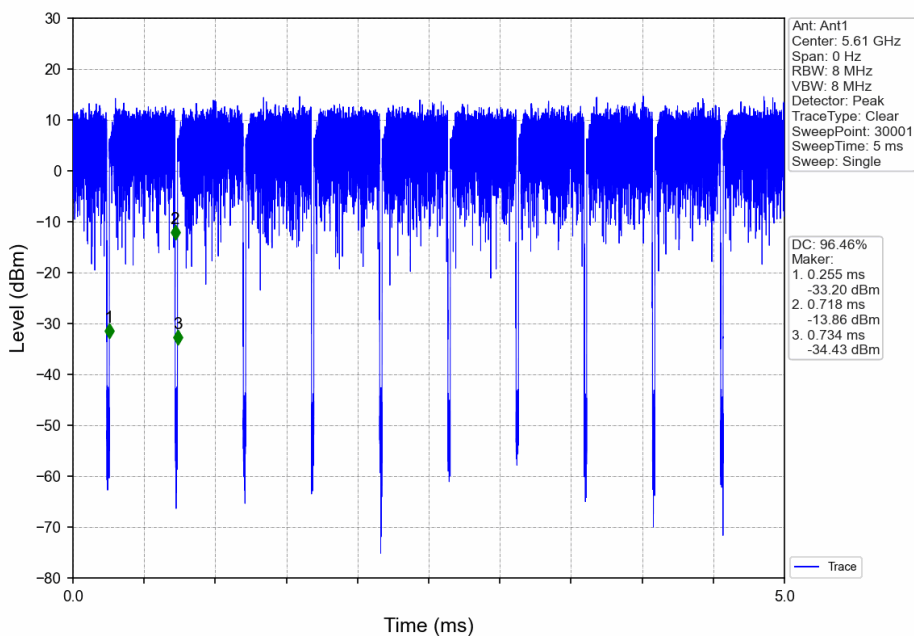
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



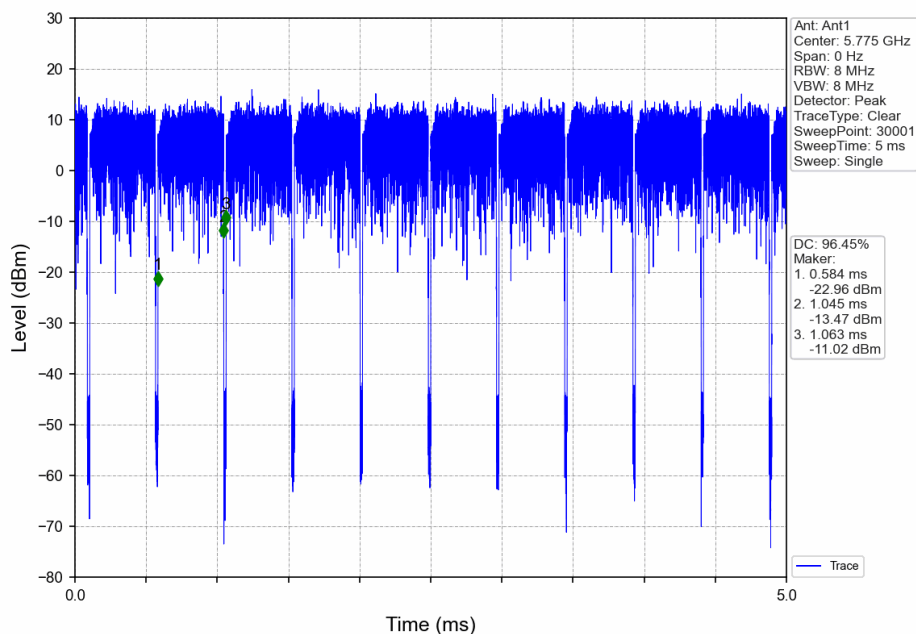
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Bandwidth

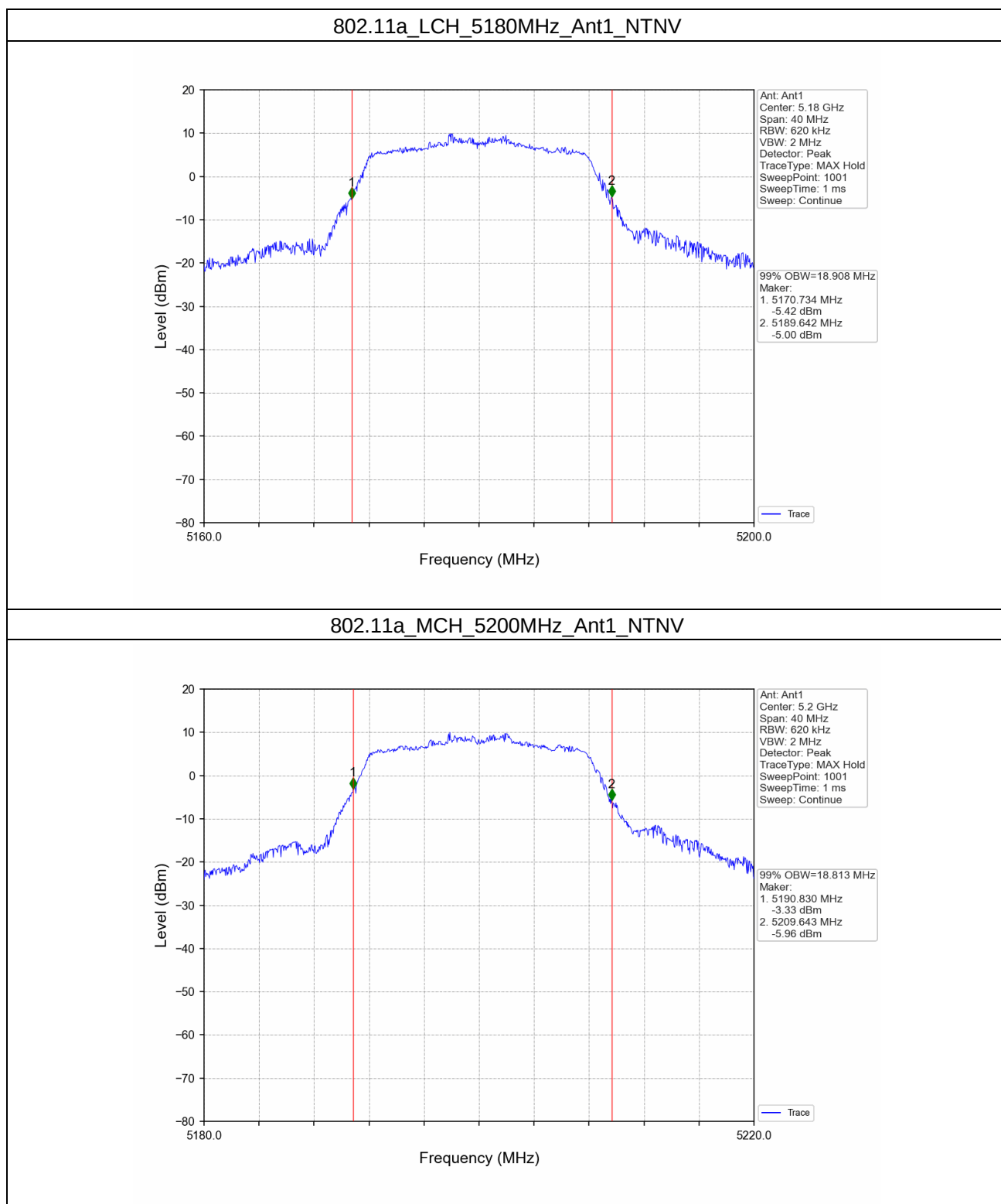
2.1 OBW

2.1.1 Test Result

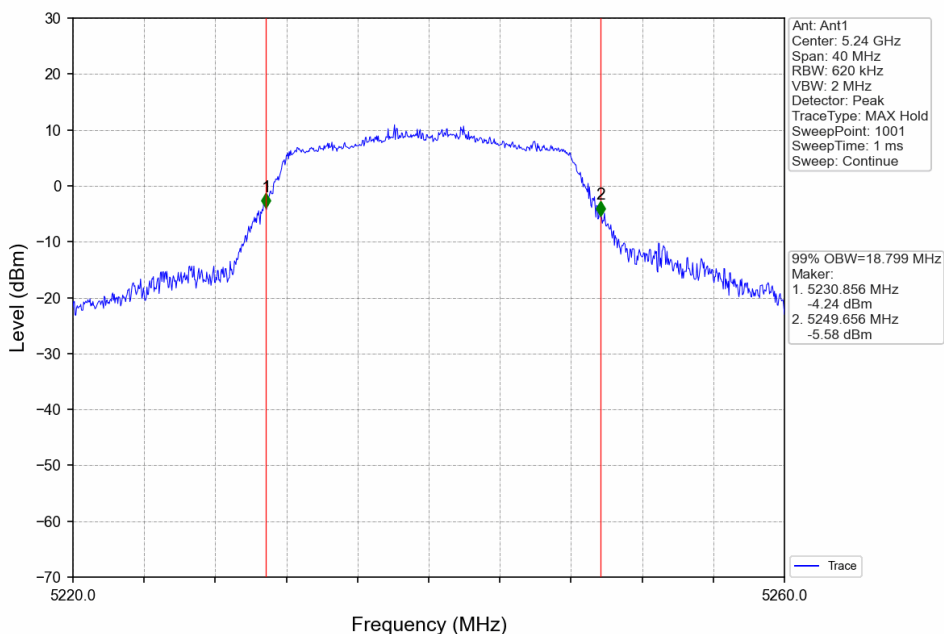
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	18.908	Pass
		5200	1	18.813	Pass
		5240	1	18.799	Pass
		5260	1	18.790	Pass
		5300	1	18.800	Pass
		5320	1	20.097	Pass
		5500	1	19.043	Pass
		5580	1	20.696	Pass
		5700	1	19.586	Pass
		5745	1	19.446	Pass
		5785	1	19.653	Pass
		5825	1	18.948	Pass
802.11n (HT20)	MIMO	5180	1	19.253	Pass
		5200	1	19.043	Pass
		5240	1	19.058	Pass
		5260	1	20.507	Pass
		5300	1	20.481	Pass
		5320	1	20.202	Pass
		5500	1	19.890	Pass
		5580	1	21.341	Pass
		5700	1	22.181	Pass
		5745	1	20.710	Pass
		5785	1	20.064	Pass
		5825	1	19.577	Pass
802.11n (HT40)	MIMO	5190	1	37.561	Pass
		5230	1	37.852	Pass
		5270	1	37.627	Pass
		5310	1	37.820	Pass
		5510	1	37.677	Pass
		5550	1	37.826	Pass
		5670	1	41.230	Pass
		5755	1	38.855	Pass
		5795	1	38.568	Pass

802.11ac (VHT20)	MIMO	5180	1	18.939	Pass
		5200	1	19.005	Pass
		5240	1	19.083	Pass
		5260	1	19.711	Pass
		5300	1	20.069	Pass
		5320	1	20.118	Pass
		5500	1	20.057	Pass
		5580	1	20.974	Pass
		5700	1	21.275	Pass
		5745	1	20.450	Pass
		5785	1	19.981	Pass
		5825	1	19.582	Pass
802.11ac (VHT40)	MIMO	5190	1	37.369	Pass
		5230	1	37.733	Pass
		5270	1	37.520	Pass
		5310	1	37.447	Pass
		5510	1	37.563	Pass
		5550	1	37.731	Pass
		5670	1	41.438	Pass
		5755	1	38.408	Pass
		5795	1	37.874	Pass
802.11ac (VHT80)	MIMO	5210	1	77.293	Pass
		5290	1	77.126	Pass
		5530	1	78.044	Pass
		5610	1	79.365	Pass
		5775	1	78.342	Pass

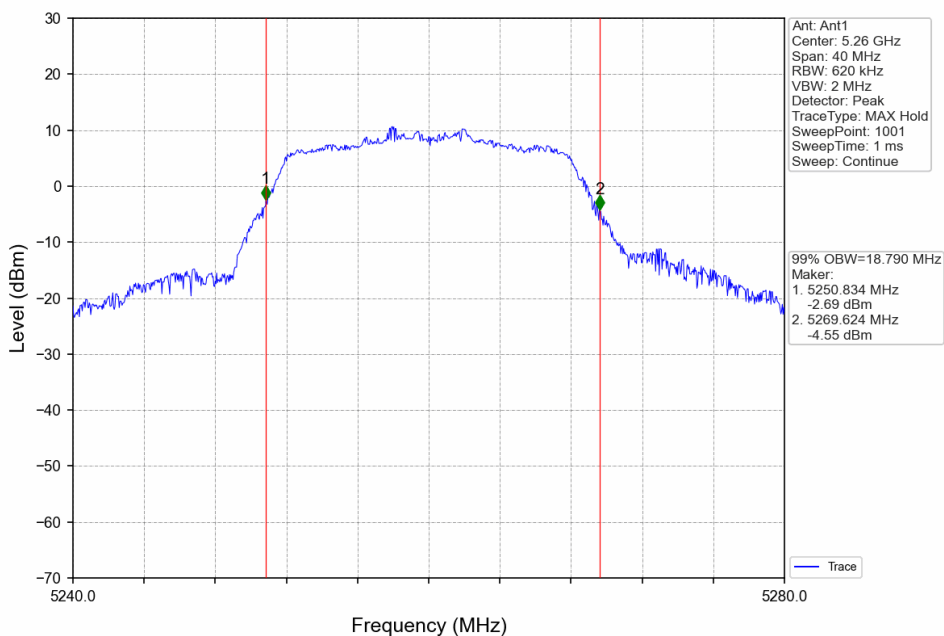
2.1.2 Test Graph



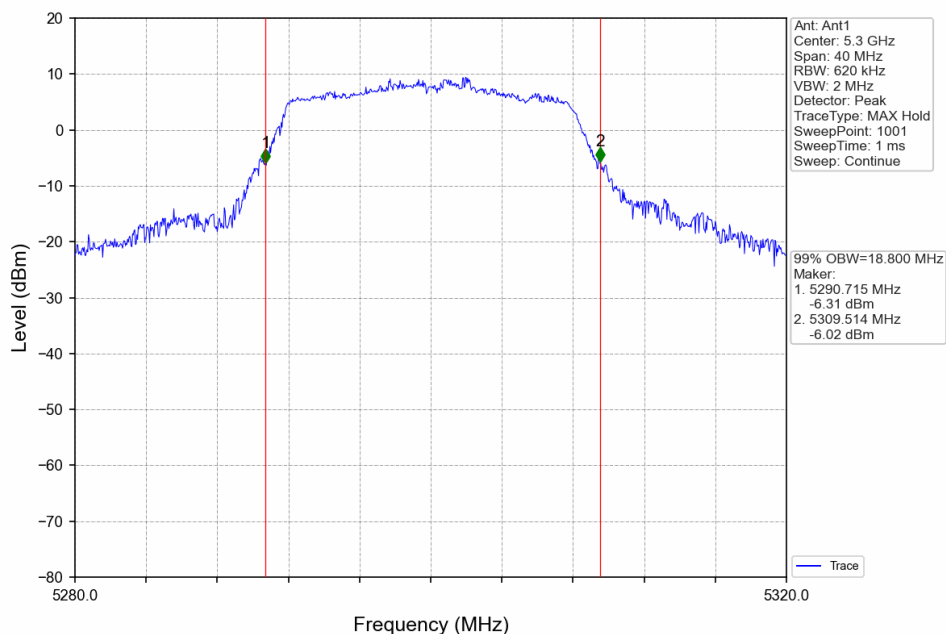
802.11a_HCH_5240MHz_Ant1_NTNV



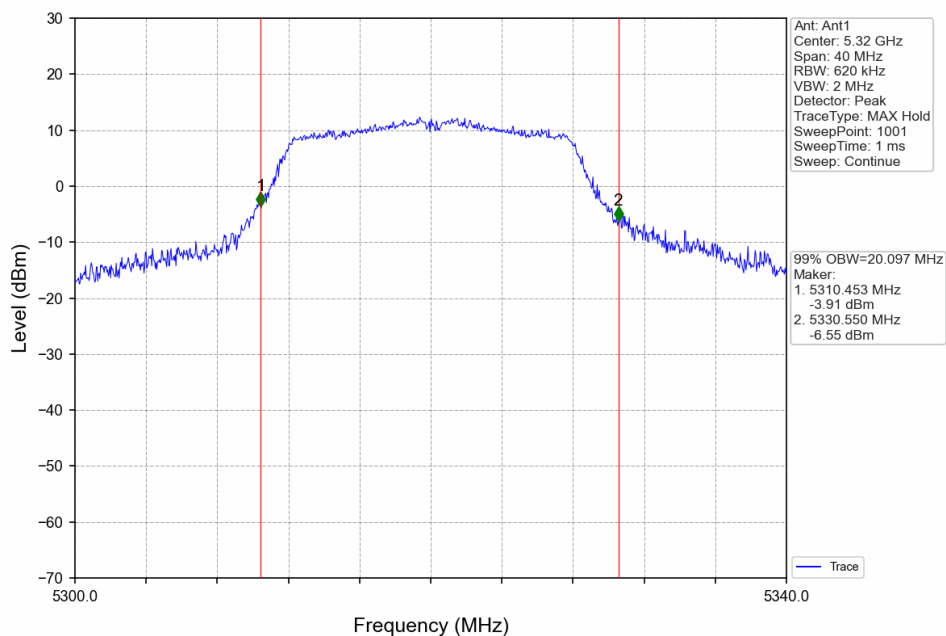
802.11a_LCH_5260MHz_Ant1_NTNV



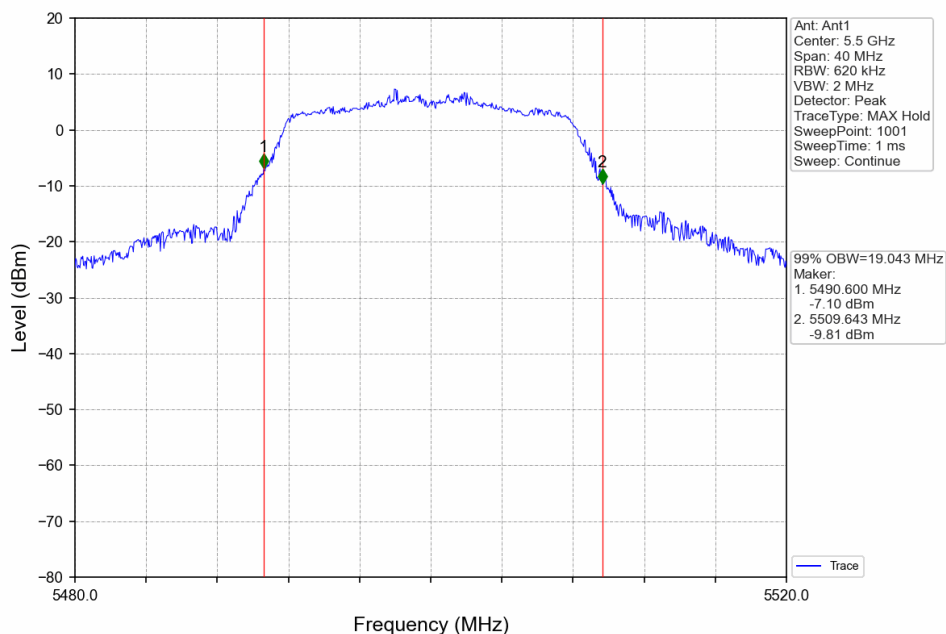
802.11a_MCH_5300MHz_Ant1_NTNV



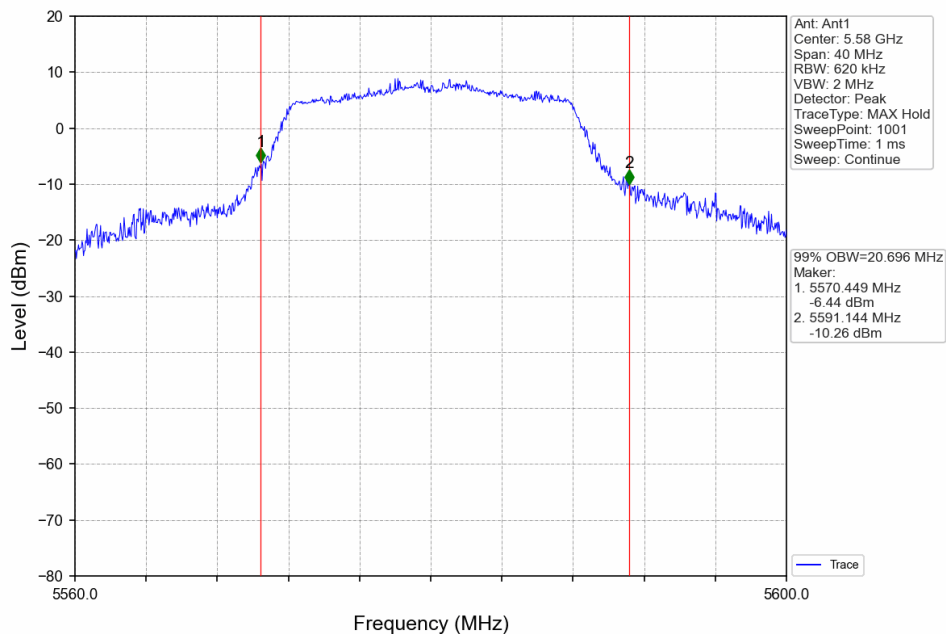
802.11a_HCH_5320MHz_Ant1_NTNV



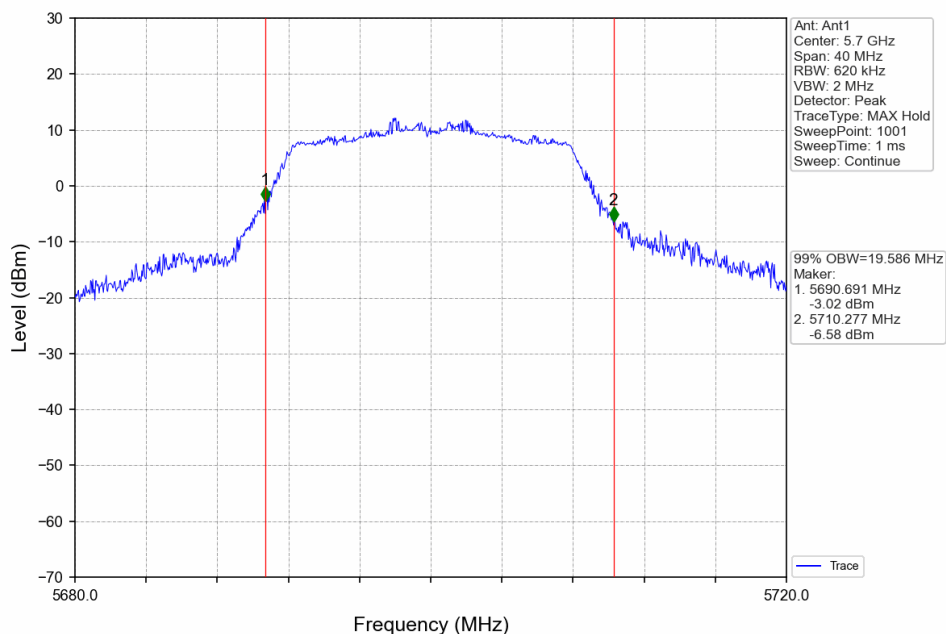
802.11a_LCH_5500MHz_Ant1_NTNV



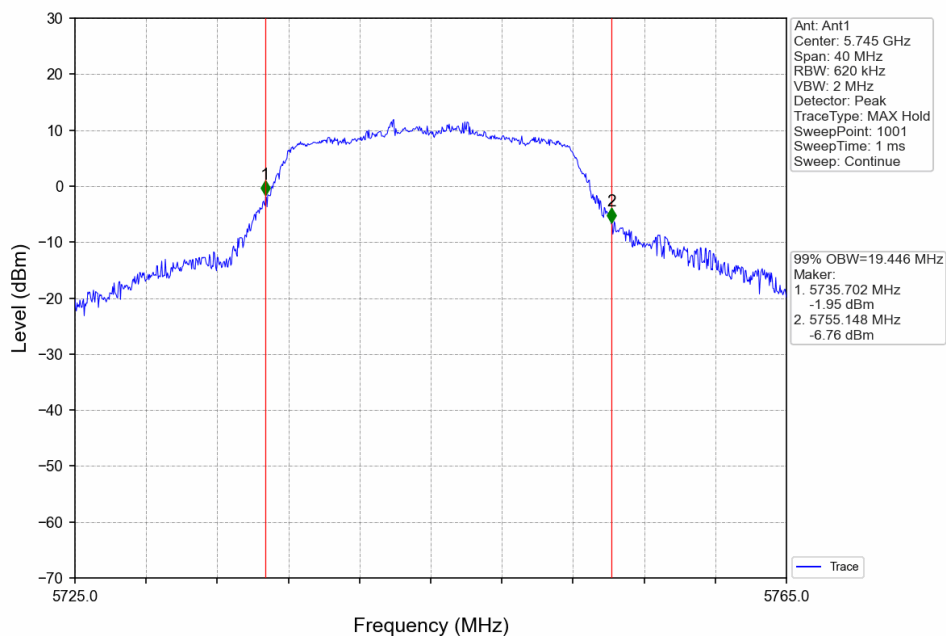
802.11a_MCH_5580MHz_Ant1_NTNV



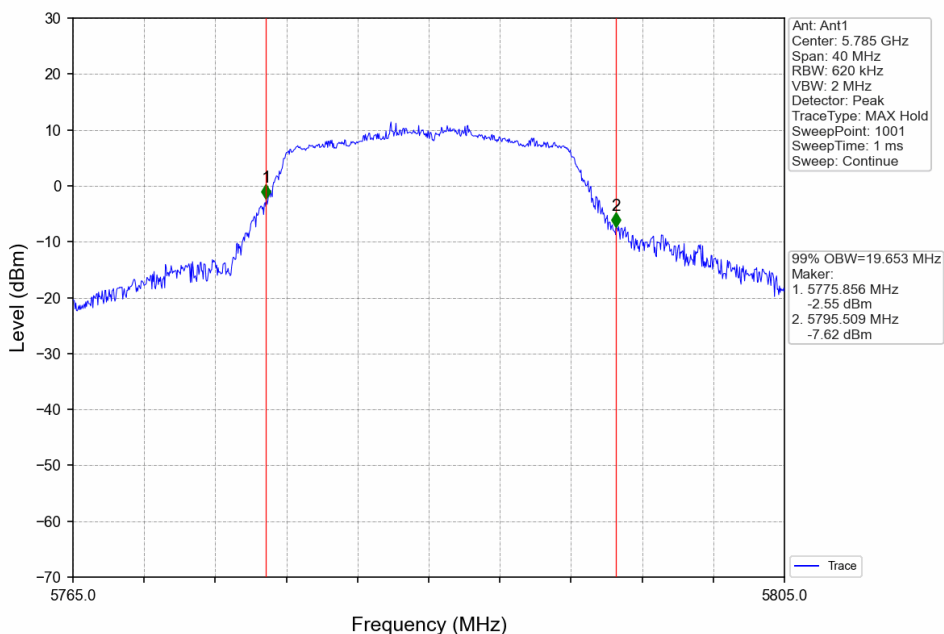
802.11a_HCH_5700MHz_Ant1_NTNV



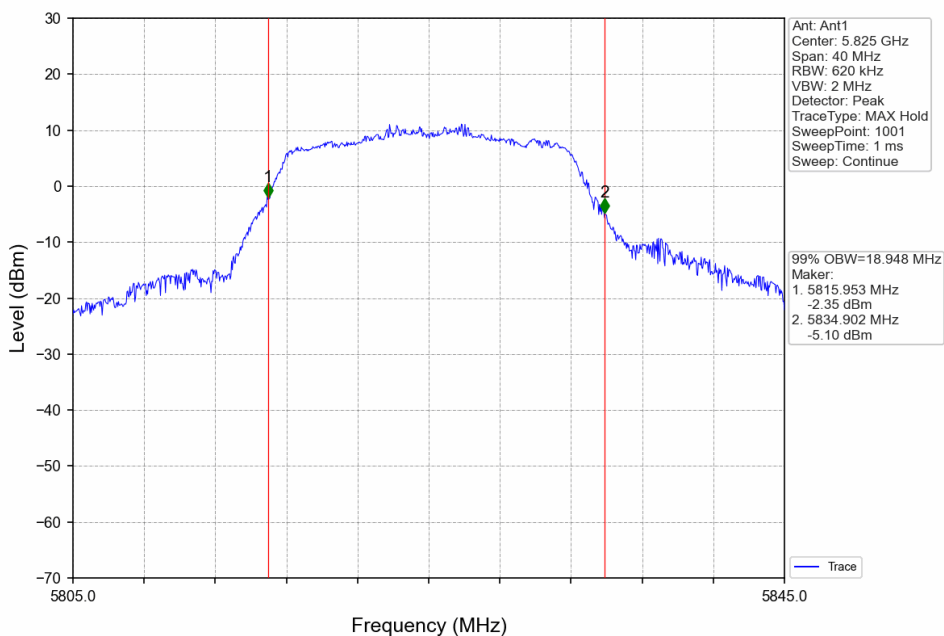
802.11a_LCH_5745MHz_Ant1_NTNV



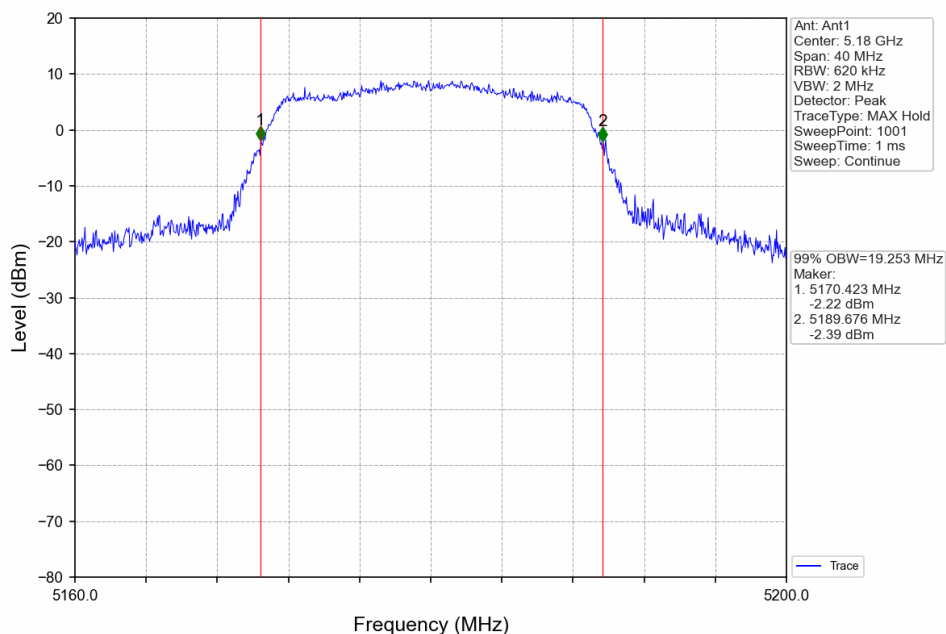
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

