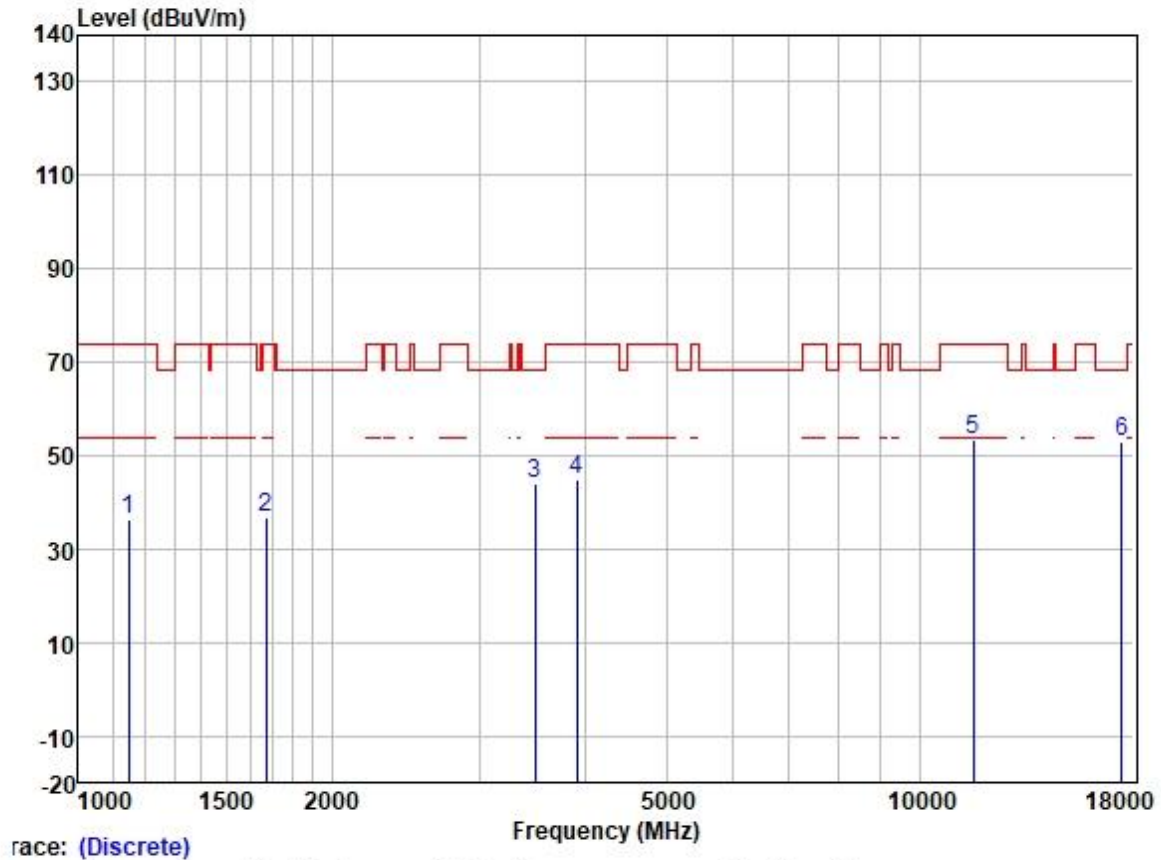


Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

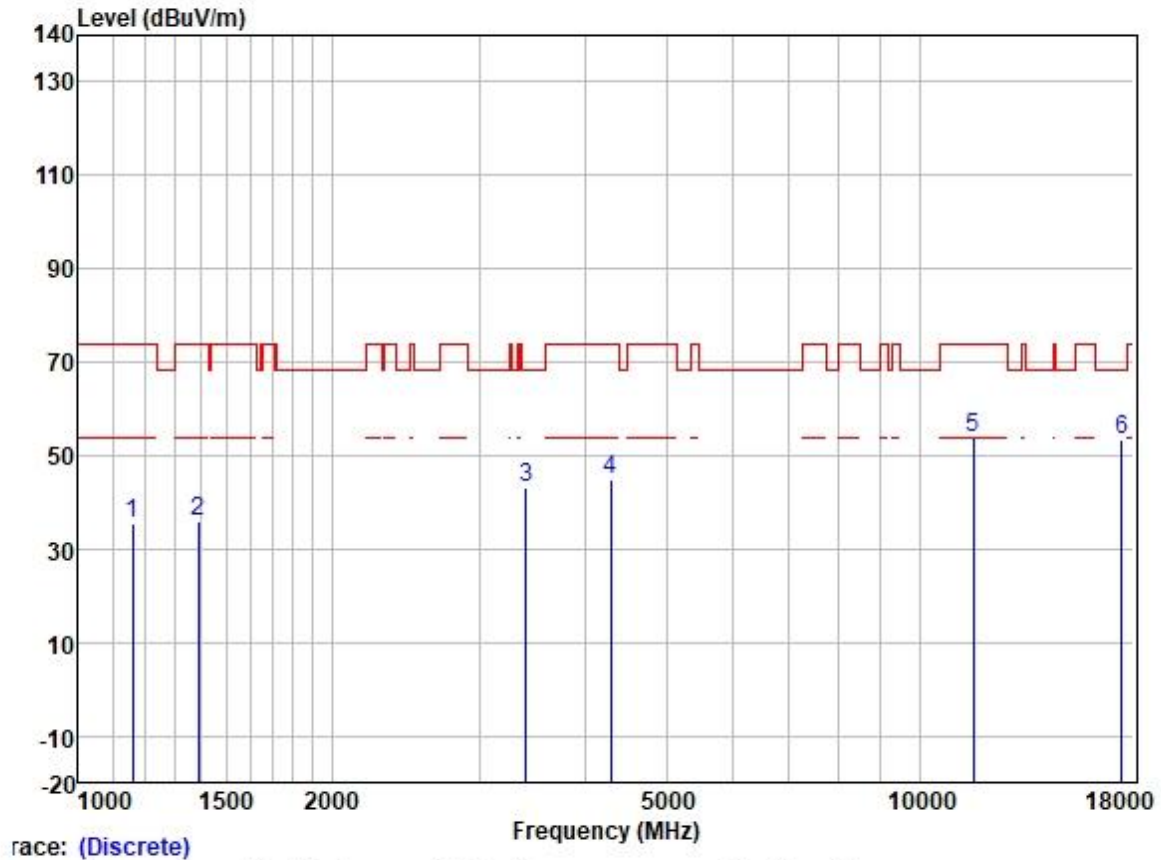
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1148.823	47.89	24.49	2.34	38.42	36.30	74.00	-37.70	HORIZONTAL	Peak
2	1672.779	46.24	25.67	2.80	37.91	36.80	74.00	-37.20	HORIZONTAL	Peak
3	3495.691	47.57	28.90	4.30	36.94	43.83	68.20	-24.37	HORIZONTAL	Peak
4	3912.809	47.57	29.70	4.60	36.82	45.05	74.00	-28.95	HORIZONTAL	Peak
5	11590.000	42.40	39.72	8.37	37.14	53.35	74.00	-20.65	HORIZONTAL	Peak
6	17385.000	34.10	43.57	10.53	35.32	52.88	68.20	-15.32	HORIZONTAL	Peak



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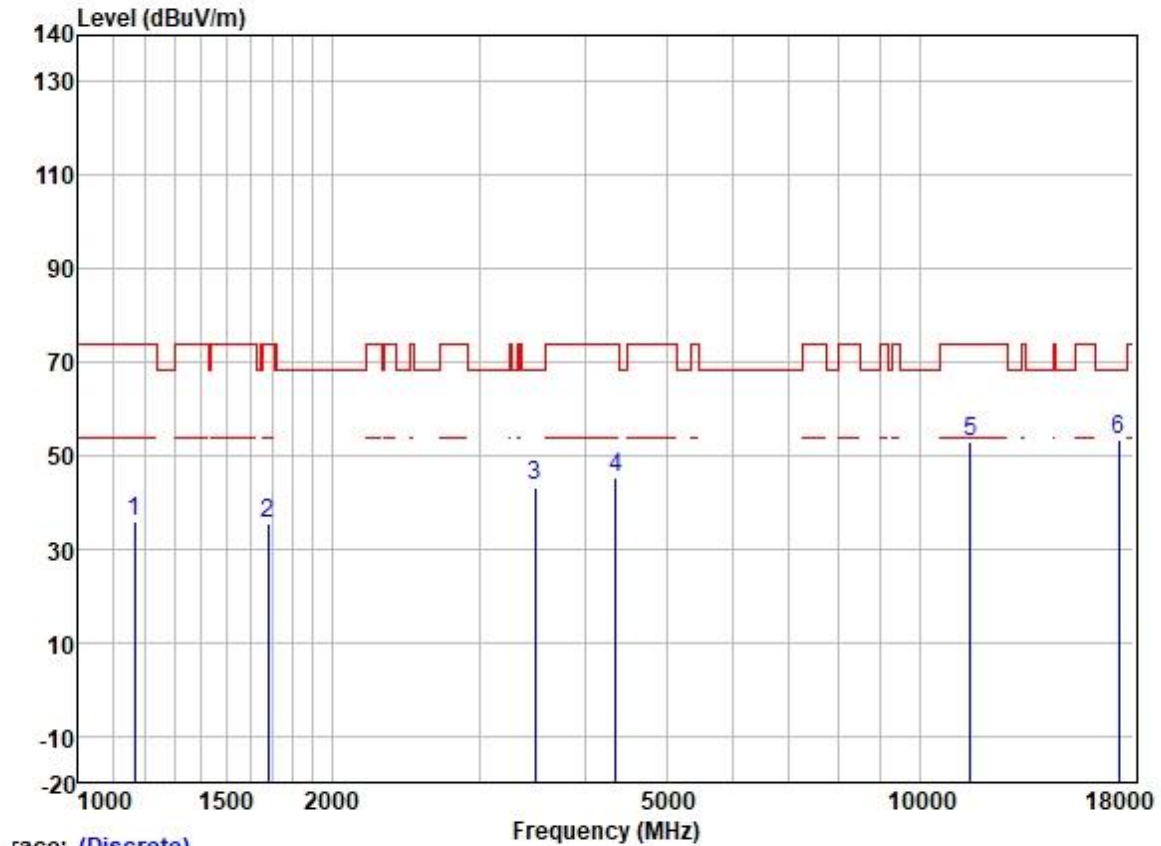
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 No.198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1158.828	47.15	24.52	2.40	38.42	35.65	74.00	-38.35	VERTICAL	Peak
2	1390.276	46.31	25.38	2.60	38.22	36.07	74.00	-37.93	VERTICAL	Peak
3	3405.929	46.96	28.85	4.11	36.98	42.94	68.20	-25.26	VERTICAL	Peak
4	4291.977	46.77	30.45	4.64	36.81	45.05	74.00	-28.95	VERTICAL	Peak
5	11590.000	42.76	39.72	8.37	37.14	53.71	74.00	-20.29	VERTICAL	Peak
6	17385.000	34.69	43.57	10.53	35.32	53.47	68.20	-14.73	VERTICAL	Peak

Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

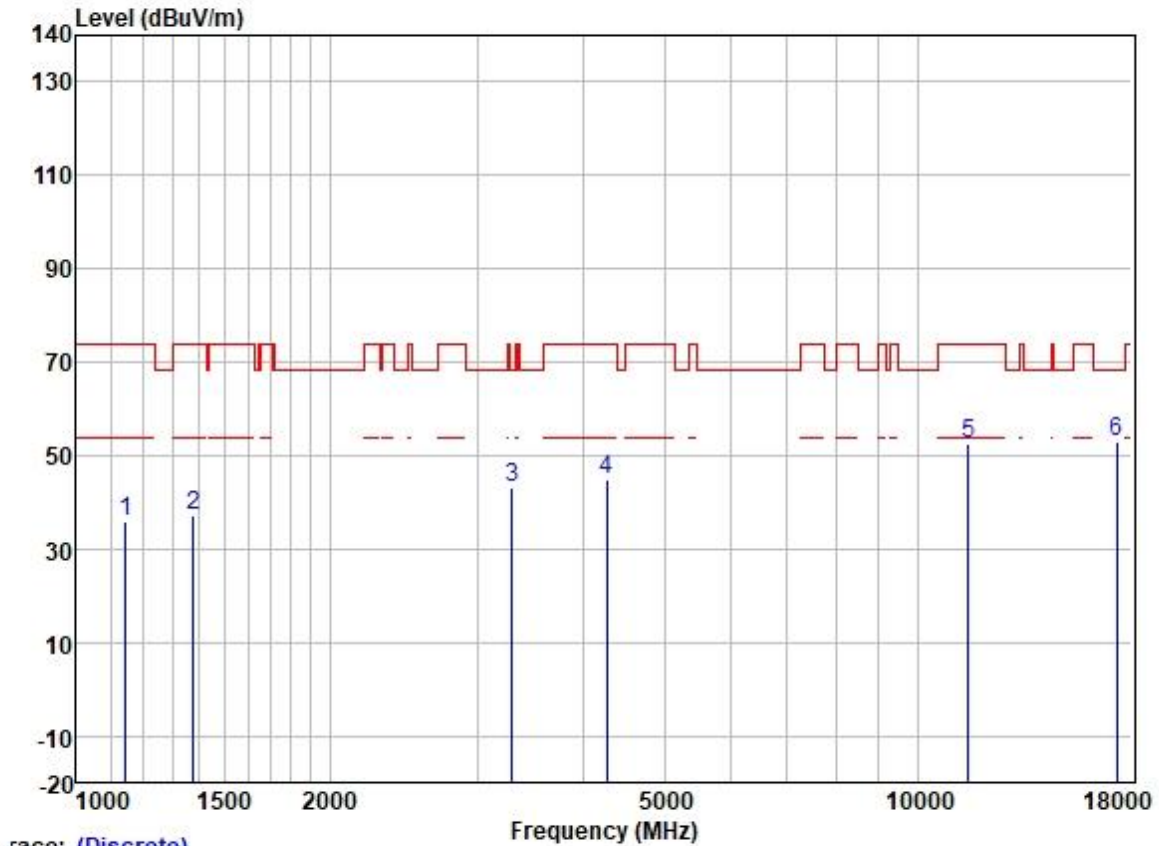
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1165.546	47.31	24.54	2.39	38.40	35.84	74.00	-38.16	HORIZONTAL	Peak
2	1682.477	44.75	25.68	2.80	37.91	35.32	74.00	-38.68	HORIZONTAL	Peak
3	3495.691	47.10	28.90	4.30	36.94	43.36	68.20	-24.84	HORIZONTAL	Peak
4	4354.454	46.71	30.59	4.68	36.81	45.17	74.00	-28.83	HORIZONTAL	Peak
5	11490.000	41.97	39.90	8.41	37.15	53.13	74.00	-20.87	HORIZONTAL	Peak
6	17235.000	35.65	43.01	10.08	35.33	53.41	68.20	-14.79	HORIZONTAL	Peak



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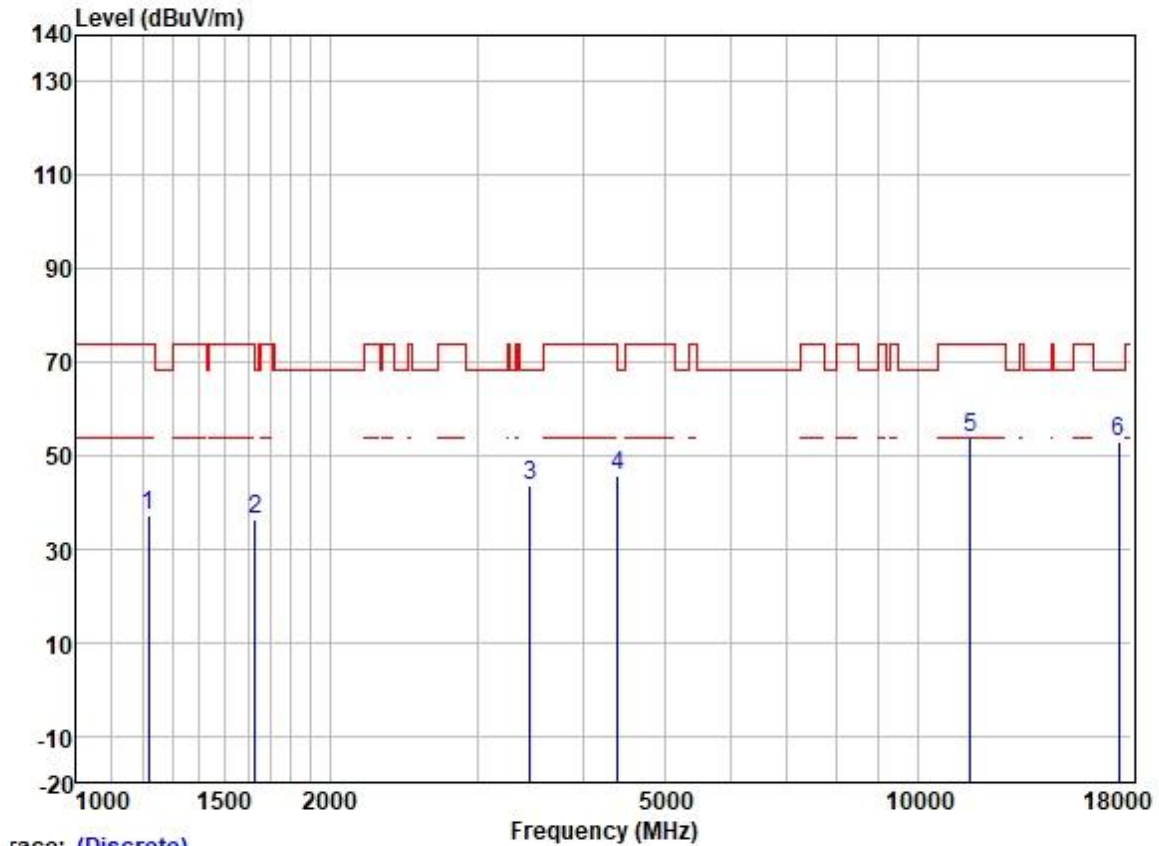
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1145.507	47.68	24.48	2.32	38.42	36.06	74.00	-37.94	VERTICAL	Peak
2	1378.273	47.37	25.36	2.60	38.25	37.08	74.00	-36.92	VERTICAL	Peak
3	3299.344	47.17	28.75	4.06	37.03	42.95	68.20	-25.25	VERTICAL	Peak
4	4267.237	46.82	30.38	4.63	36.81	45.02	74.00	-28.98	VERTICAL	Peak
5	11490.000	41.58	39.90	8.41	37.15	52.74	74.00	-21.26	VERTICAL	Peak
6	17235.000	35.00	43.01	10.08	35.33	52.76	68.20	-15.44	VERTICAL	Peak

Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

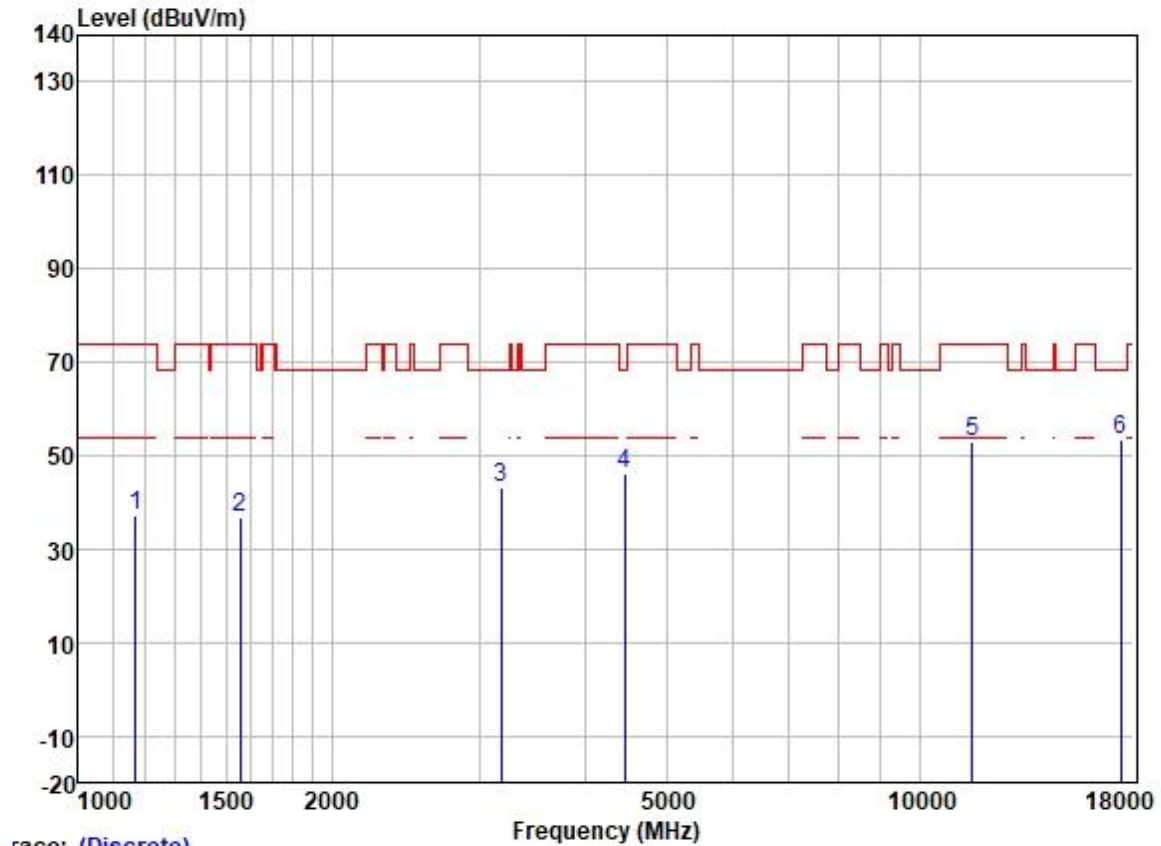
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1217.190	48.31	24.79	2.32	38.37	37.05	74.00	-36.95	HORIZONTAL	Peak
2	1629.825	45.73	25.61	2.80	37.95	36.19	68.20	-32.01	HORIZONTAL	Peak
3	3465.510	47.56	28.88	4.22	36.95	43.71	68.20	-24.49	HORIZONTAL	Peak
4	4405.090	47.17	30.68	4.70	36.81	45.74	68.20	-22.46	HORIZONTAL	Peak
5	11570.000	42.70	39.78	8.38	37.14	53.72	74.00	-20.28	HORIZONTAL	Peak
6	17355.000	34.55	43.40	10.39	35.32	53.02	68.20	-15.18	HORIZONTAL	Peak



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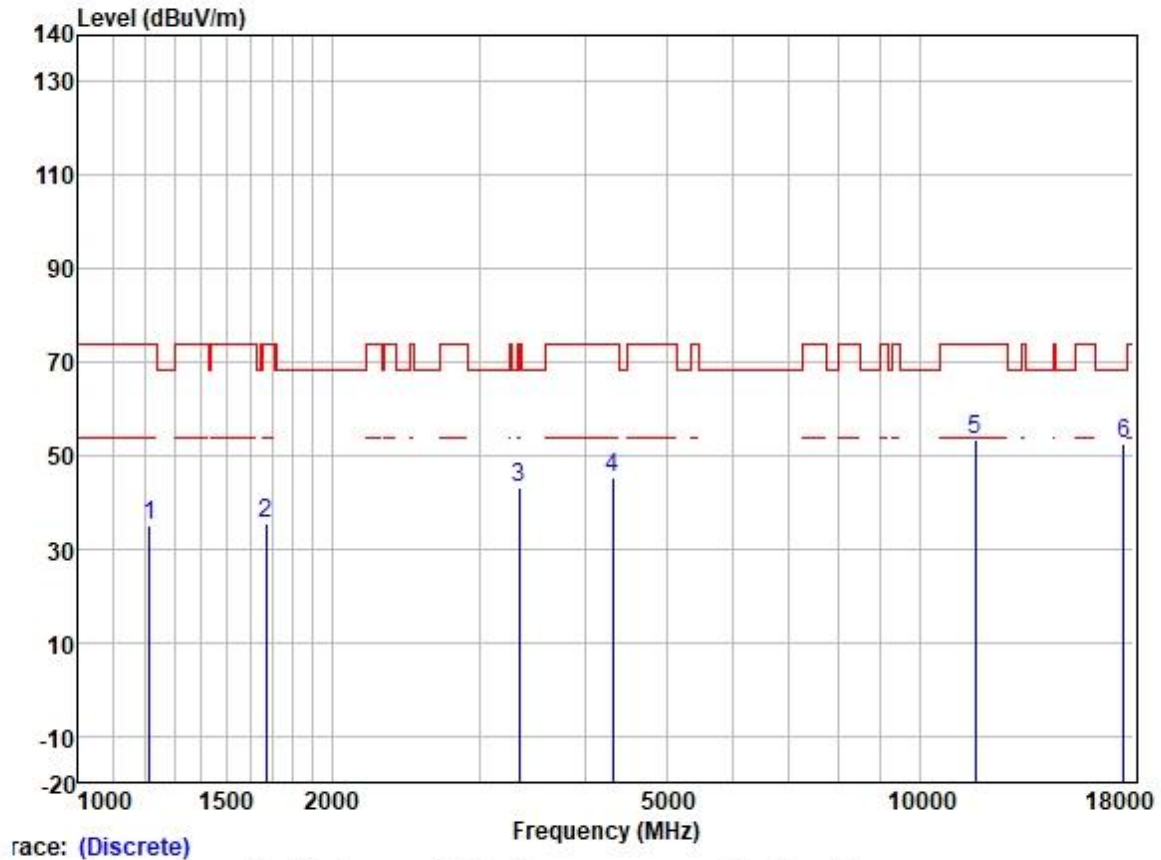
Test Mode: 10; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



Trace: (Discrete)

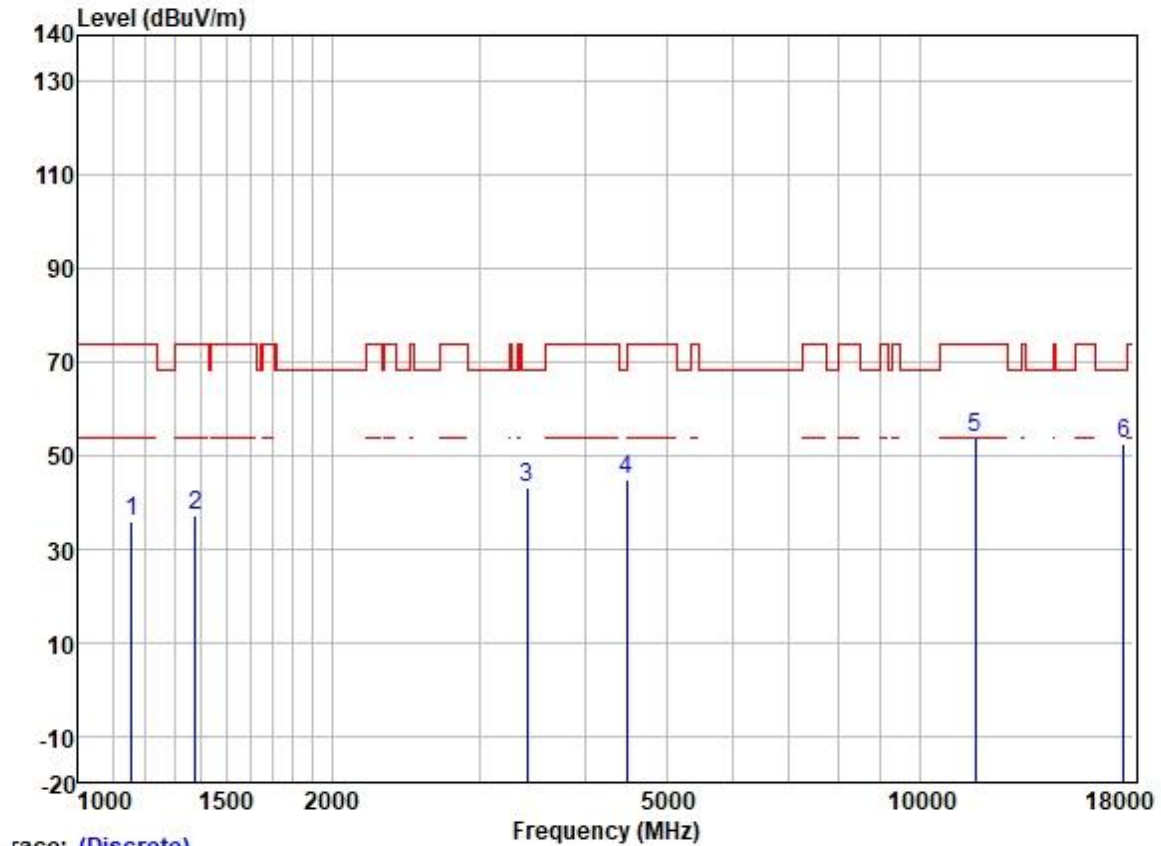
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1168.920	48.60	24.55	2.39	38.40	37.14	74.00	-36.86	VERTICAL	Peak
2	1556.169	46.24	25.54	2.80	38.03	36.55	74.00	-37.45	VERTICAL	Peak
3	3177.672	47.75	28.56	3.99	37.10	43.20	68.20	-25.00	VERTICAL	Peak
4	4456.315	47.19	30.75	4.88	36.81	46.01	68.20	-22.19	VERTICAL	Peak
5	11570.000	42.13	39.78	8.38	37.14	53.15	74.00	-20.85	VERTICAL	Peak
6	17355.000	35.01	43.40	10.39	35.32	53.48	68.20	-14.72	VERTICAL	Peak

Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1213.677	46.49	24.77	2.32	38.37	35.21	74.00	-38.79	HORIZONTAL	Peak
2	1672.779	44.91	25.67	2.80	37.91	35.47	74.00	-38.53	HORIZONTAL	Peak
3	3337.710	47.27	28.79	4.08	37.01	43.13	74.00	-30.87	HORIZONTAL	Peak
4	4316.859	46.74	30.51	4.66	36.81	45.10	74.00	-28.90	HORIZONTAL	Peak
5	11650.000	42.62	39.65	8.35	37.13	53.49	74.00	-20.51	HORIZONTAL	Peak
6	17475.000	33.14	43.90	10.77	35.32	52.49	68.20	-15.71	HORIZONTAL	Peak

Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

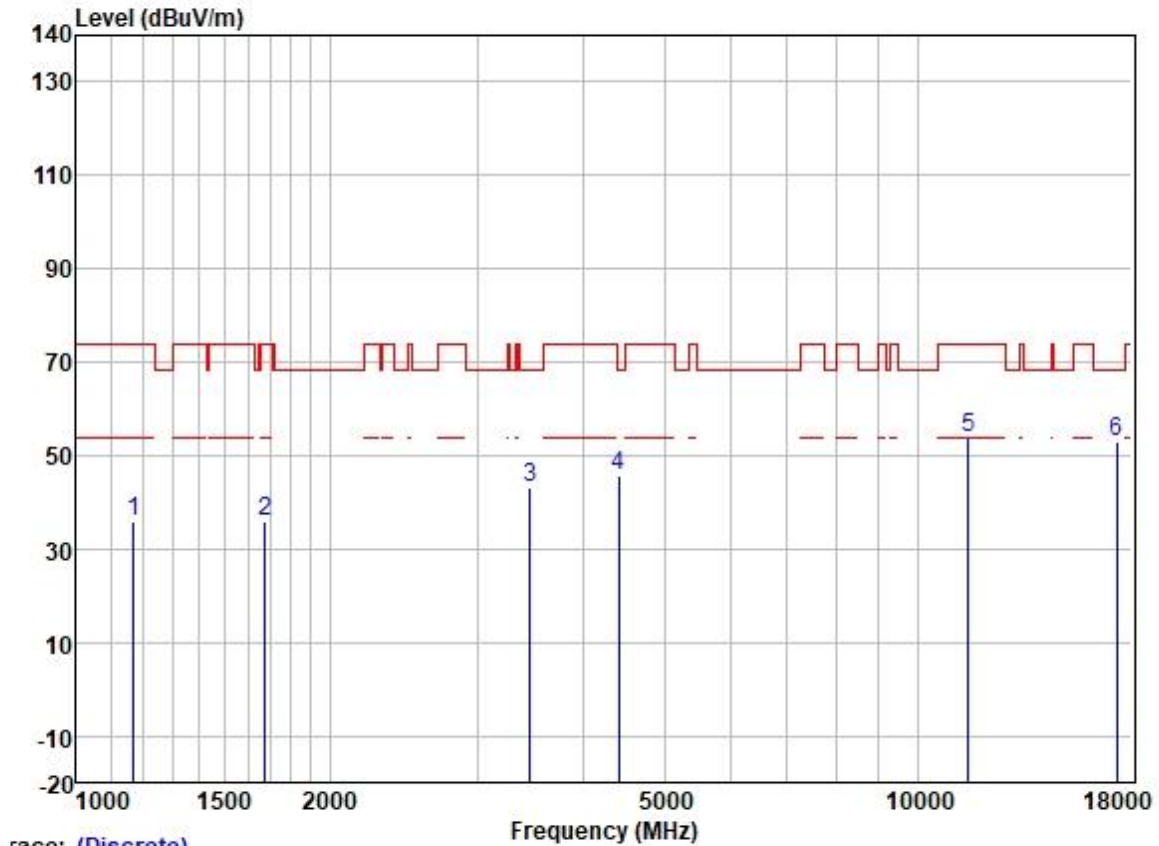
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1155.483	47.26	24.51	2.38	38.42	35.73	74.00	-38.27	VERTICAL	Peak
2	1378.273	47.48	25.36	2.60	38.25	37.19	74.00	-36.81	VERTICAL	Peak
3	3415.787	47.15	28.85	4.13	36.97	43.16	68.20	-25.04	VERTICAL	Peak
4	4482.150	45.96	30.78	4.99	36.81	44.92	68.20	-23.28	VERTICAL	Peak
5	11650.000	42.79	39.65	8.35	37.13	53.66	74.00	-20.34	VERTICAL	Peak
6	17475.000	33.15	43.90	10.77	35.32	52.50	68.20	-15.70	VERTICAL	Peak



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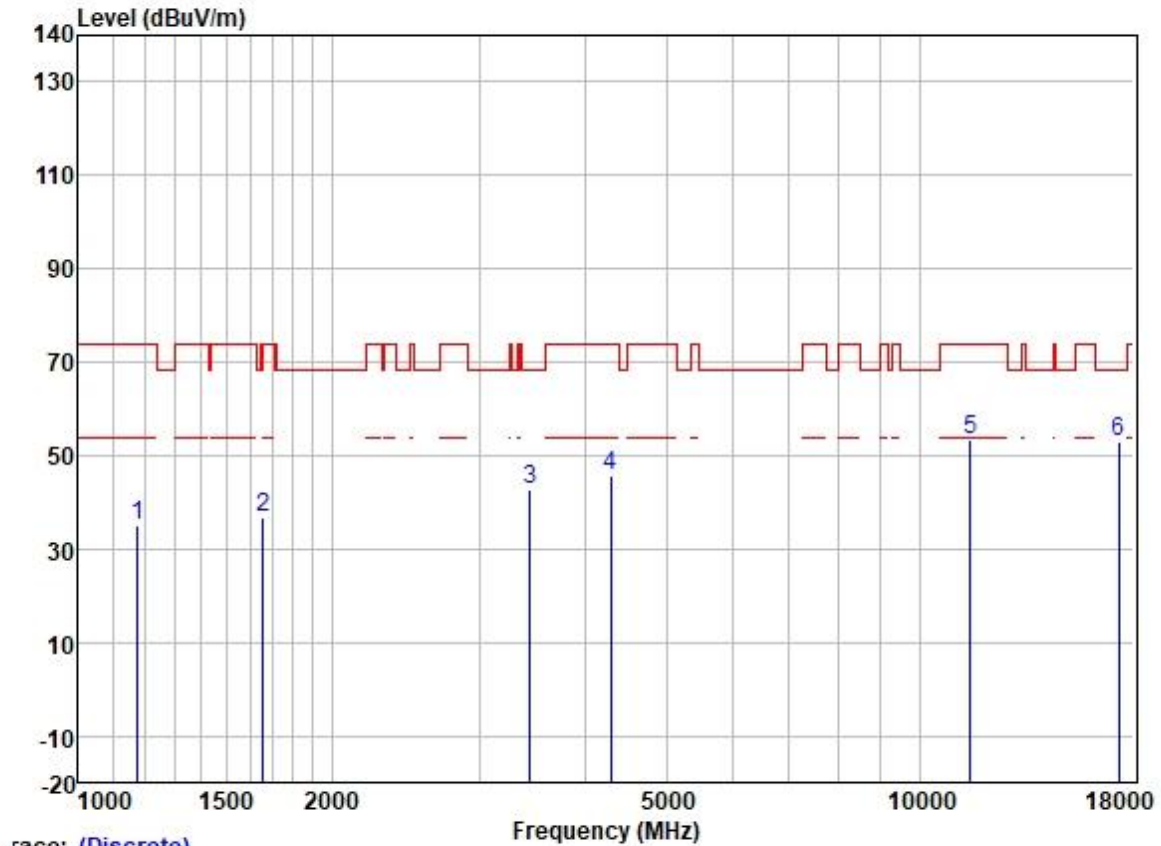
Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1168.920	47.45	24.55	2.39	38.40	35.99	74.00	-38.01	HORIZONTAL	Peak
2	1677.621	45.43	25.68	2.80	37.91	36.00	74.00	-38.00	HORIZONTAL	Peak
3	3465.510	46.82	28.88	4.22	36.95	42.97	68.20	-25.23	HORIZONTAL	Peak
4	4417.841	47.03	30.70	4.74	36.81	45.66	68.20	-22.54	HORIZONTAL	Peak
5	11510.000	42.83	39.90	8.41	37.15	53.99	74.00	-20.01	HORIZONTAL	Peak
6	17265.000	34.83	43.21	10.24	35.33	52.95	68.20	-15.25	HORIZONTAL	Peak

Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

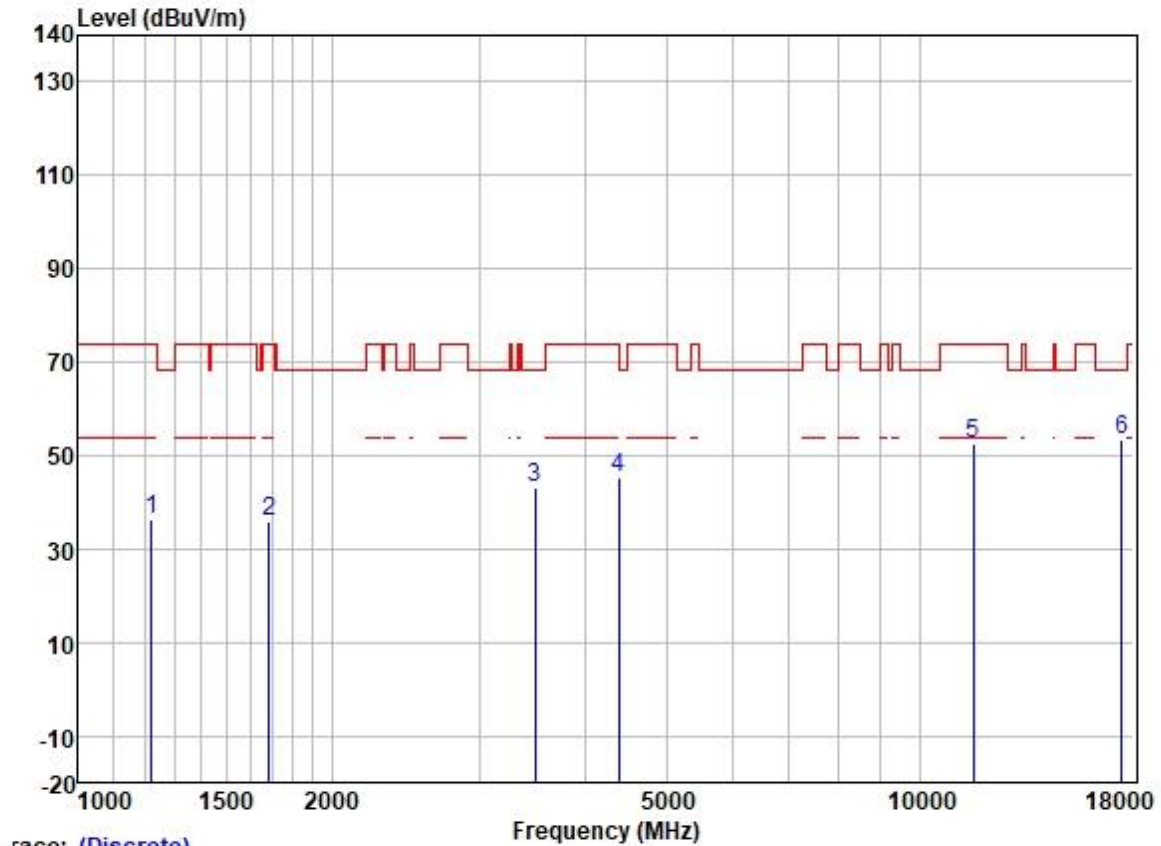


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1175.697	46.67	24.58	2.38	38.40	35.23	74.00	-38.77	VERTICAL	Peak
2	1658.337	46.23	25.65	2.80	37.93	36.75	68.20	-31.45	VERTICAL	Peak
3	3445.535	46.76	28.87	4.18	36.96	42.85	68.20	-25.35	VERTICAL	Peak
4	4291.977	47.23	30.45	4.64	36.81	45.51	74.00	-28.49	VERTICAL	Peak
5	11510.000	42.40	39.90	8.41	37.15	53.56	74.00	-20.44	VERTICAL	Peak
6	17265.000	35.01	43.21	10.24	35.33	53.13	68.20	-15.07	VERTICAL	Peak

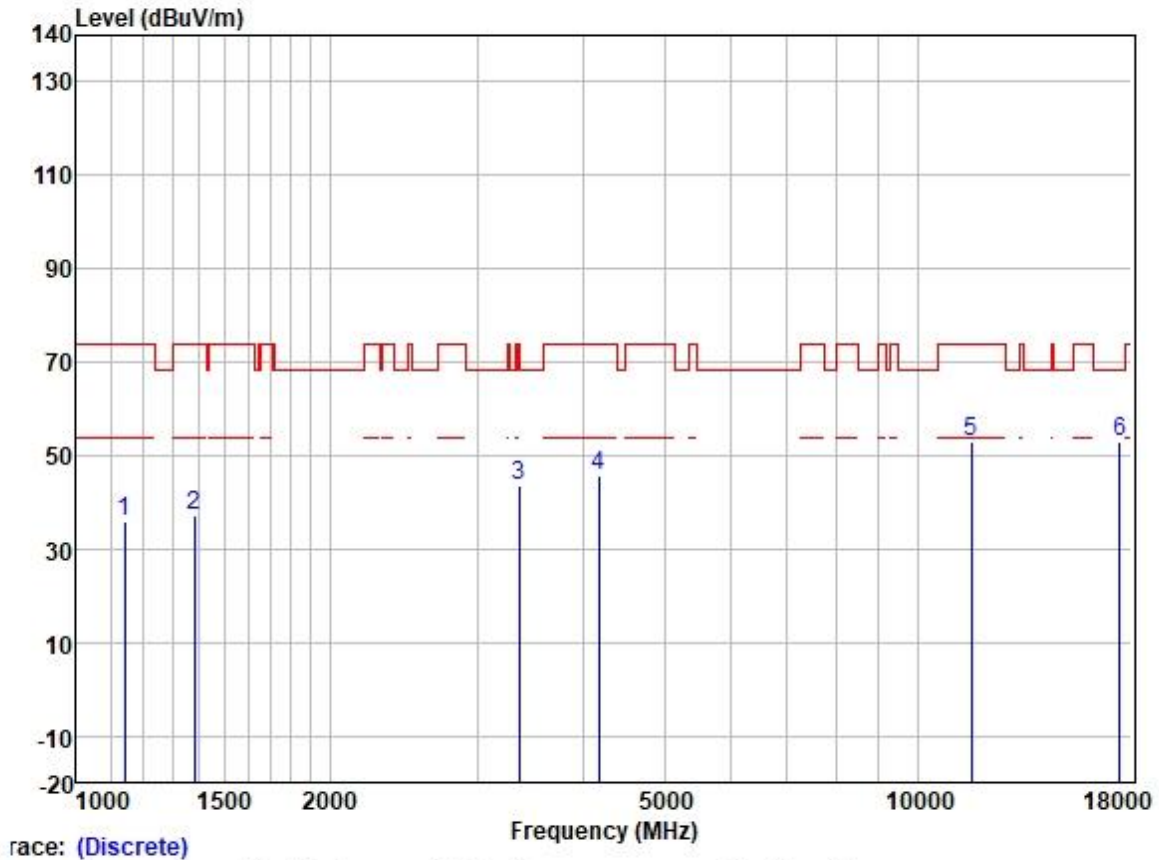


Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



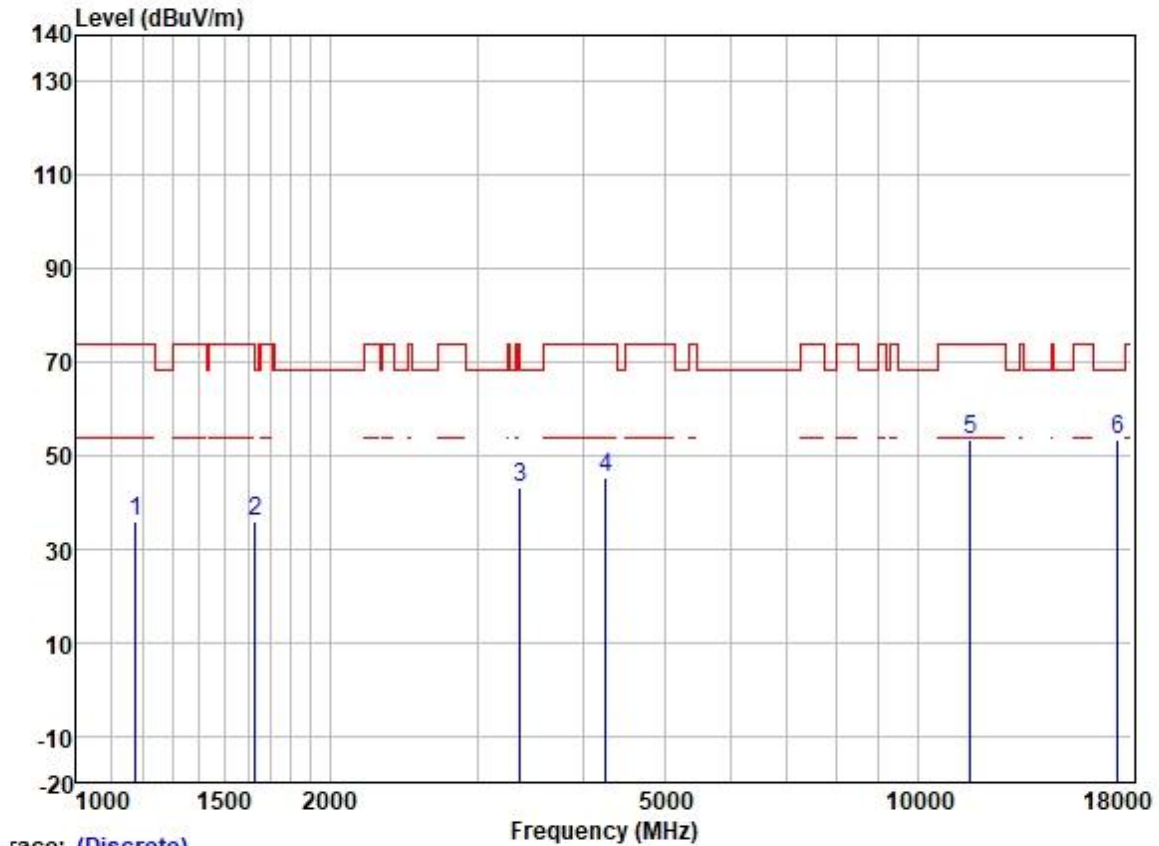
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1220.714	47.54	24.82	2.32	38.37	36.31	74.00	-37.69	HORIZONTAL	Peak
2	1687.347	45.48	25.69	2.80	37.91	36.06	74.00	-37.94	HORIZONTAL	Peak
3	3495.691	46.88	28.90	4.30	36.94	43.14	68.20	-25.06	HORIZONTAL	Peak
4	4392.376	46.85	30.66	4.70	36.81	45.40	74.00	-28.60	HORIZONTAL	Peak
5	11590.000	41.76	39.72	8.37	37.14	52.71	74.00	-21.29	HORIZONTAL	Peak
6	17385.000	34.46	43.57	10.53	35.32	53.24	68.20	-14.96	HORIZONTAL	Peak

Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1142.201	47.43	24.47	2.30	38.42	35.78	74.00	-38.22	VERTICAL	Peak
2	1382.262	47.33	25.37	2.60	38.25	37.05	74.00	-36.95	VERTICAL	Peak
3	3357.061	47.61	28.81	4.09	37.01	43.50	74.00	-30.50	VERTICAL	Peak
4	4181.768	47.84	30.12	4.60	36.80	45.76	74.00	-28.24	VERTICAL	Peak
5	11590.000	42.14	39.72	8.37	37.14	53.09	74.00	-20.91	VERTICAL	Peak
6	17385.000	34.02	43.57	10.53	35.32	52.80	68.20	-15.40	VERTICAL	Peak

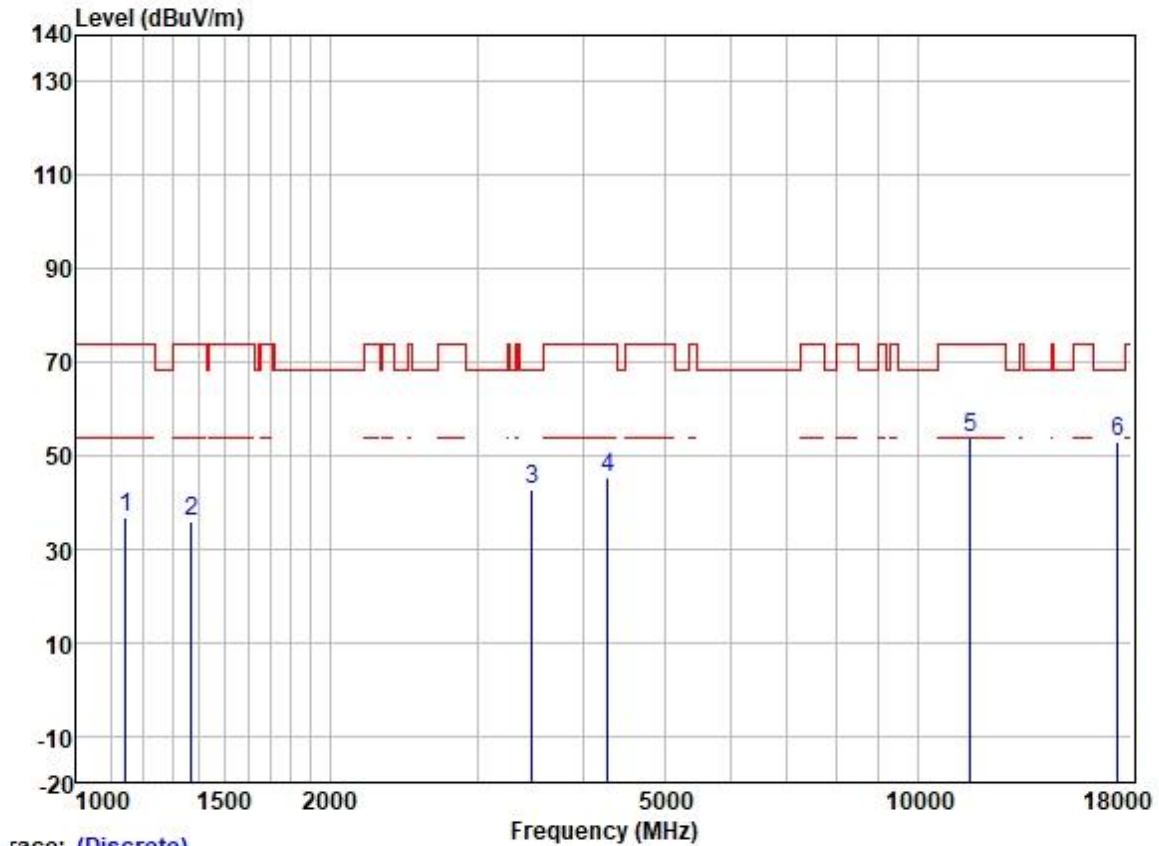
Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1175.697	47.15	24.58	2.38	38.40	35.71	74.00	-38.29	HORIZONTAL	Peak
2	1629.825	45.29	25.61	2.80	37.95	35.75	68.20	-32.45	HORIZONTAL	Peak
3	3366.778	47.11	28.82	4.09	36.99	43.03	68.20	-25.17	HORIZONTAL	Peak
4	4254.921	47.21	30.34	4.62	36.81	45.36	74.00	-28.64	HORIZONTAL	Peak
5	11550.000	42.10	39.84	8.40	37.14	53.20	74.00	-20.80	HORIZONTAL	Peak
6	17325.000	34.89	43.40	10.39	35.32	53.36	68.20	-14.84	HORIZONTAL	Peak

Test Mode: 10; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1145.507	48.19	24.48	2.32	38.42	36.57	74.00	-37.43	VERTICAL	Peak
2	1370.328	46.39	25.35	2.60	38.25	36.09	74.00	-37.91	VERTICAL	Peak
3	3485.601	46.33	28.89	4.27	36.95	42.54	68.20	-25.66	VERTICAL	Peak
4	4279.589	46.86	30.42	4.63	36.81	45.10	74.00	-28.90	VERTICAL	Peak
5	11550.000	42.58	39.84	8.40	37.14	53.68	74.00	-20.32	VERTICAL	Peak
6	17325.000	34.46	43.40	10.39	35.32	52.93	68.20	-15.27	VERTICAL	Peak



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8 Test Setup Photo

Refer to Appendix - Setup Photos-BTWIFI for GZCR2108020814AT & Appendix - Setup Photos – DFS for GZCR2108020814AT.

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2108020814AT



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	1.39	1.49	93.67	0.28	0.00
		5200	1.39	1.55	89.69	0.47	3.99
		5240	1.39	1.49	93.61	0.29	0.03
		5260	1.40	1.49	93.94	0.27	0.00
		5300	1.39	1.49	93.68	0.28	0.00
		5320	1.39	1.49	93.67	0.28	0.00
		5500	1.39	1.49	93.61	0.29	0.03
		5580	1.39	1.49	93.67	0.28	0.03
		5700	1.39	1.49	93.67	0.28	0.00
		5745	1.39	1.49	93.67	0.28	0.03
		5785	1.39	1.49	93.67	0.28	0.03
		5825	1.40	1.49	93.94	0.27	0.00
802.11n (HT20)	SISO	5180	1.18	1.27	92.53	0.34	0.03
		5200	1.18	1.27	92.60	0.33	0.03
		5240	1.18	1.27	92.92	0.32	0.03
		5260	1.18	1.27	92.92	0.32	0.03
		5300	1.18	1.27	92.85	0.32	0.03
		5320	1.18	1.27	92.85	0.32	0.03
		5500	1.18	1.27	92.53	0.34	0.03
		5580	1.18	1.27	92.53	0.34	0.03
		5700	1.18	1.27	92.53	0.34	0.03
		5745	1.18	1.27	92.53	0.34	0.00
		5785	1.18	1.27	92.60	0.33	0.03
		5825	1.18	1.27	92.60	0.33	0.03
802.11n (HT40)	SISO	5190	0.59	0.68	86.83	0.61	0.03
		5230	0.59	0.68	86.83	0.61	0.03
		5270	0.59	0.68	86.83	0.61	0.03
		5310	0.59	0.68	86.83	0.61	0.03
		5510	0.58	0.68	86.24	0.64	0.00
		5550	0.59	0.68	86.83	0.61	0.03
		5670	0.58	0.68	86.09	0.65	0.07



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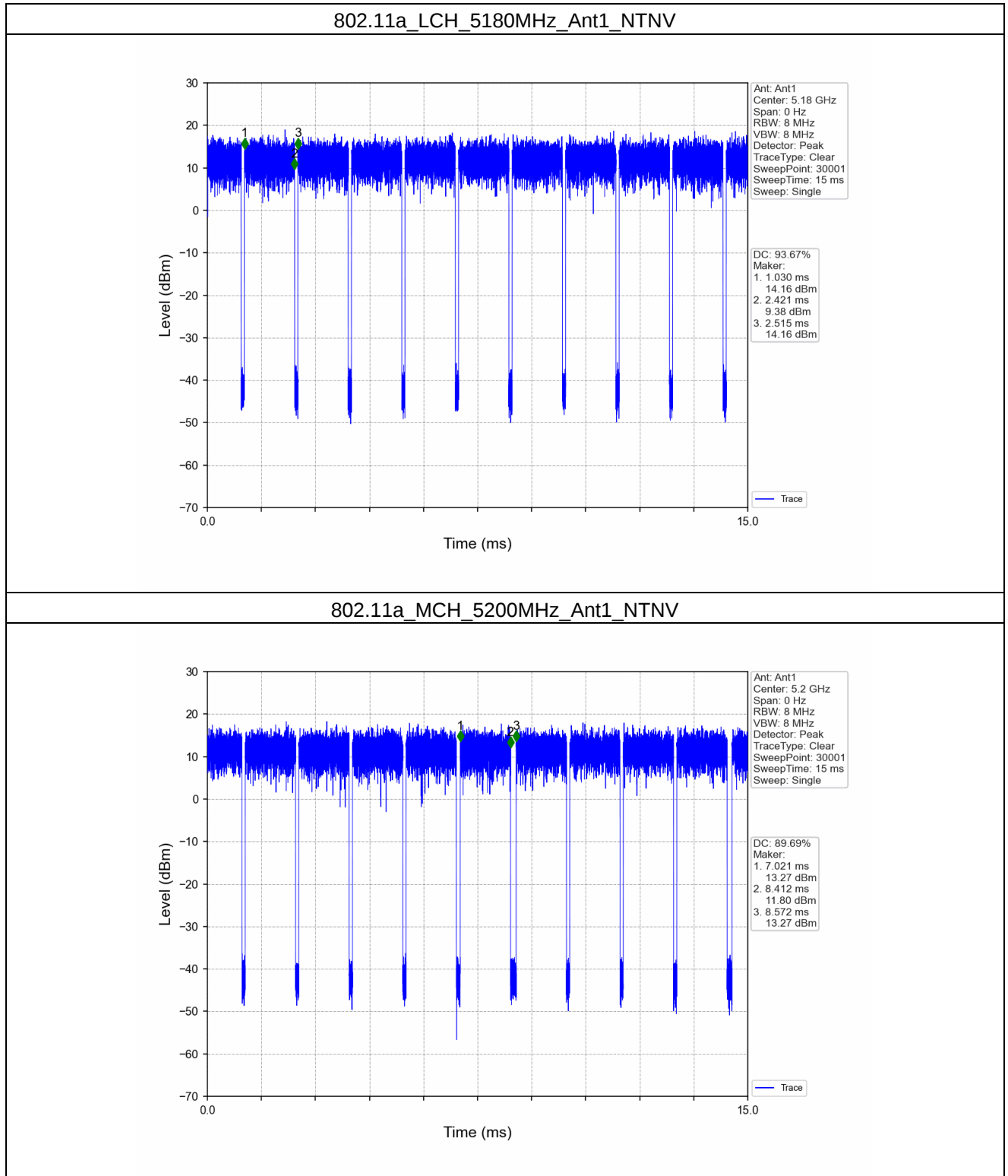
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Guangzhou Branch Testing/Inspection/EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

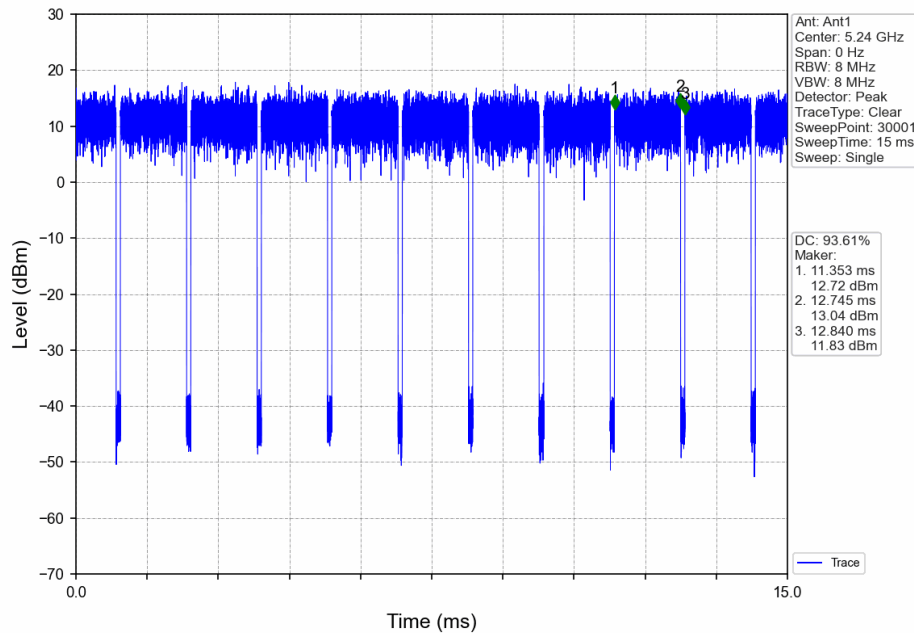
		5755	0.59	0.68	86.83	0.61	0.00
		5795	0.58	0.68	86.09	0.65	0.00
802.11ac (VHT20)	SISO	5180	1.19	1.28	92.96	0.32	0.03
		5200	1.19	1.28	92.96	0.32	0.03
		5240	1.18	1.28	92.64	0.33	0.03
		5260	1.19	1.28	92.96	0.32	0.03
		5300	1.19	1.28	92.96	0.32	0.00
		5320	1.19	1.28	92.96	0.32	0.03
		5500	1.19	1.28	93.04	0.31	0.03
		5580	1.19	1.28	92.96	0.32	0.03
		5700	1.19	1.28	93.03	0.31	0.00
		5745	1.19	1.28	93.04	0.31	0.00
		5785	1.19	1.28	93.04	0.31	0.00
		5825	1.18	1.28	92.64	0.33	0.03
802.11ac (VHT40)	SISO	5190	0.59	0.68	86.26	0.64	0.03
		5230	0.59	0.68	86.40	0.63	0.03
		5270	0.59	0.68	86.28	0.64	0.03
		5310	0.59	0.68	86.84	0.61	0.06
		5510	0.59	0.68	86.84	0.61	0.03
		5550	0.59	0.68	86.97	0.61	0.00
		5670	0.59	0.68	86.26	0.64	0.00
		5755	0.59	0.68	86.84	0.61	0.03
		5795	0.59	0.68	86.40	0.63	0.07
802.11ac (VHT80)	SISO	5210	0.29	0.39	75.39	1.23	0.07
		5290	0.29	0.39	75.39	1.23	0.11
		5530	0.29	0.38	75.58	1.22	0.03
		5775	0.29	0.38	75.32	1.23	0.10



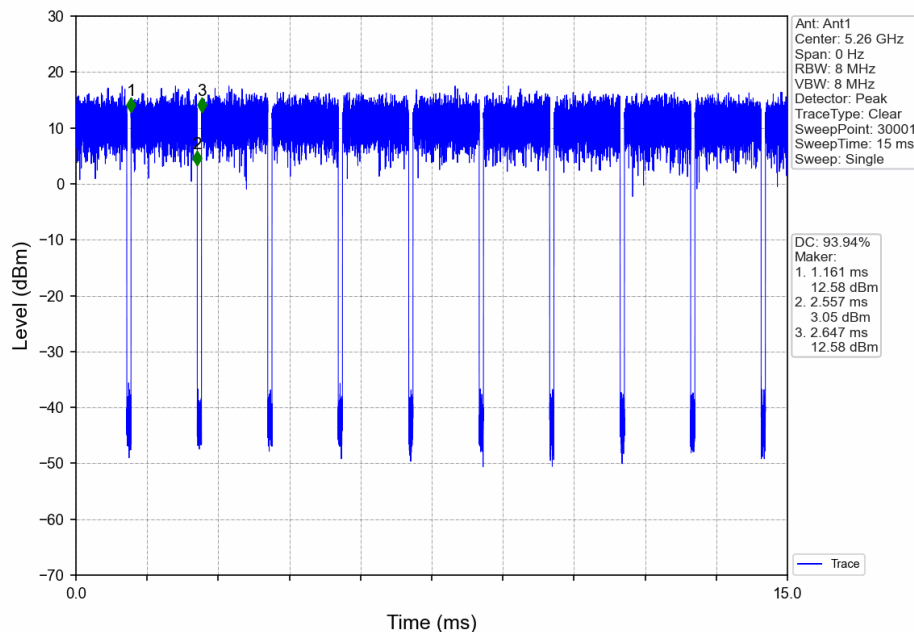
1.1.2 Test Graph



802.11a_HCH_5240MHz_Ant1_NTNV

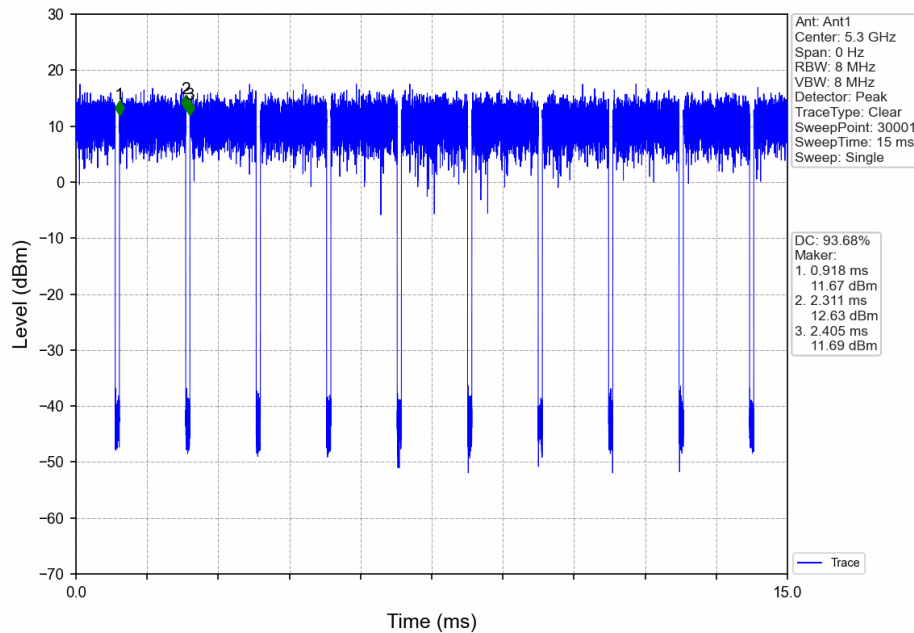


802.11a_LCH_5260MHz_Ant1_NTNV

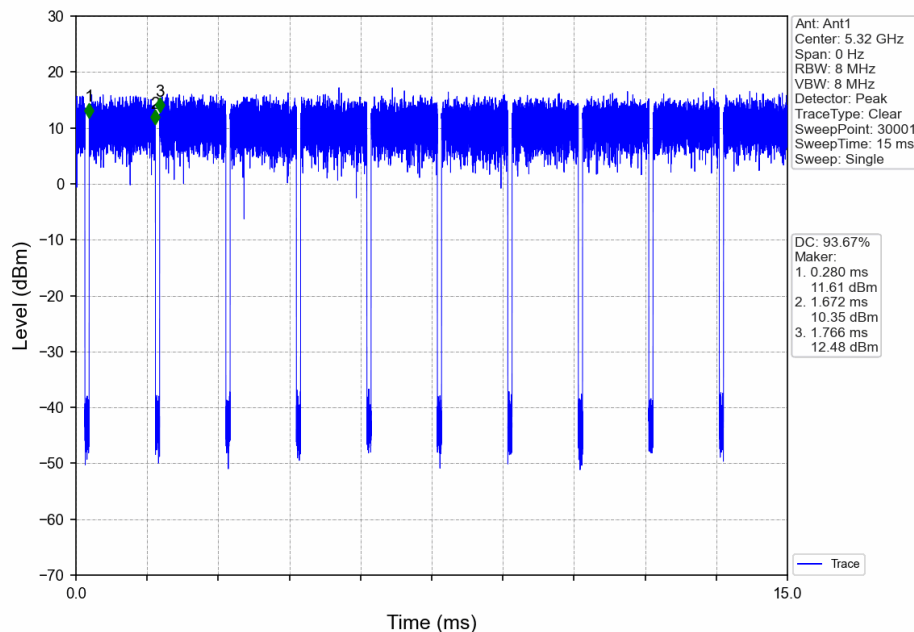


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802.11a_MCH_5300MHz_Ant1_NTNV



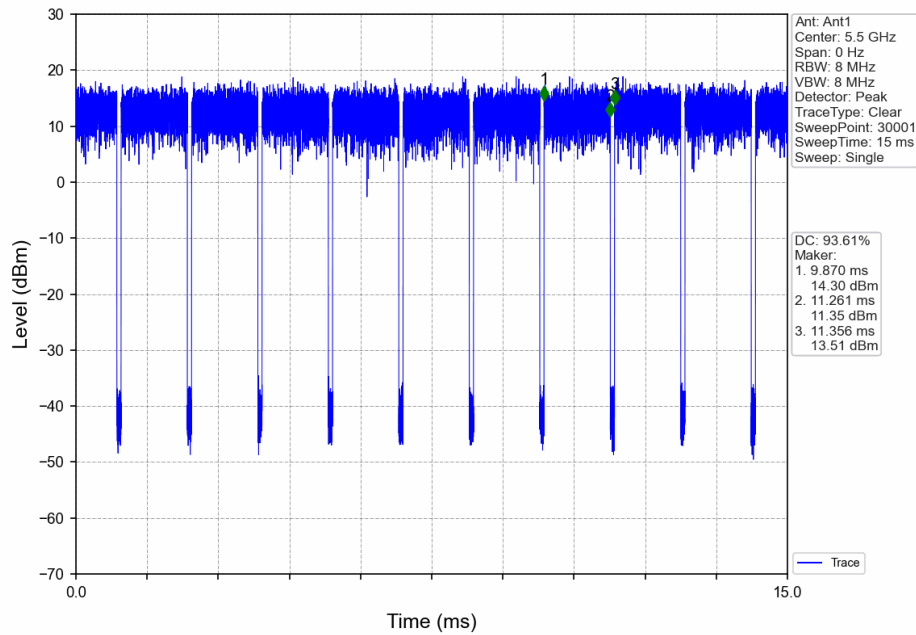
802.11a_HCH_5320MHz_Ant1_NTNV



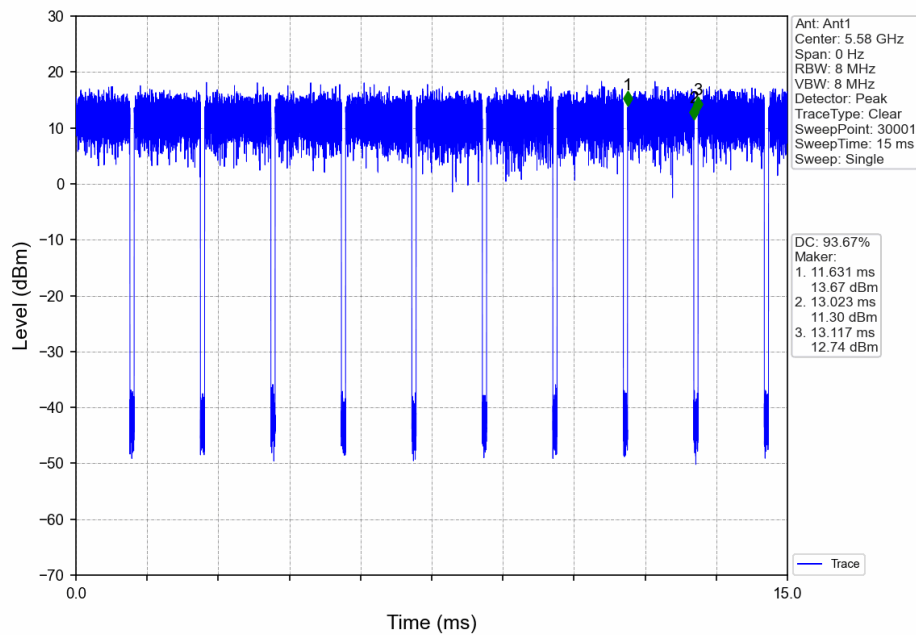
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802.11a_LCH_5500MHz_Ant1_NTNV

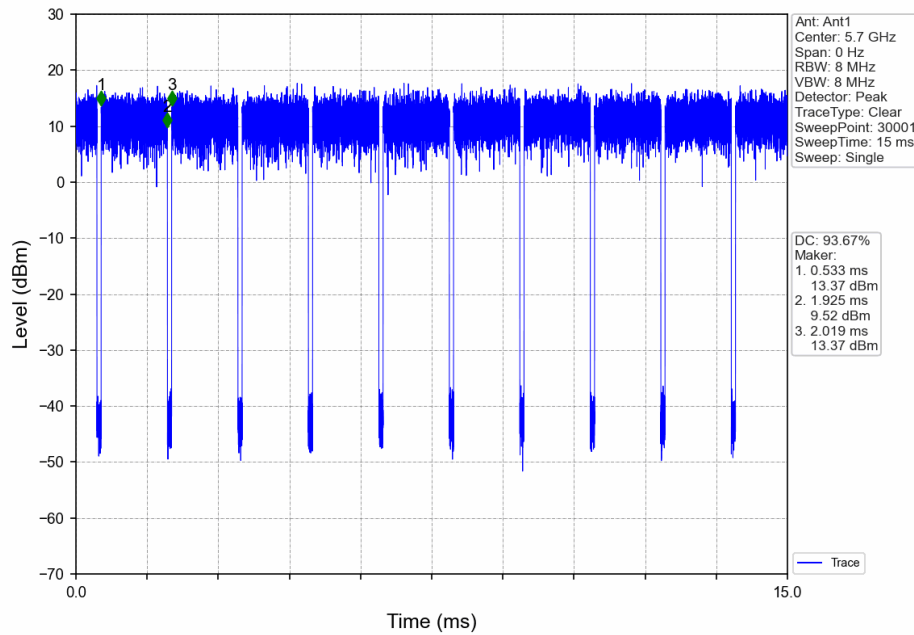


802.11a_MCH_5580MHz_Ant1_NTNV

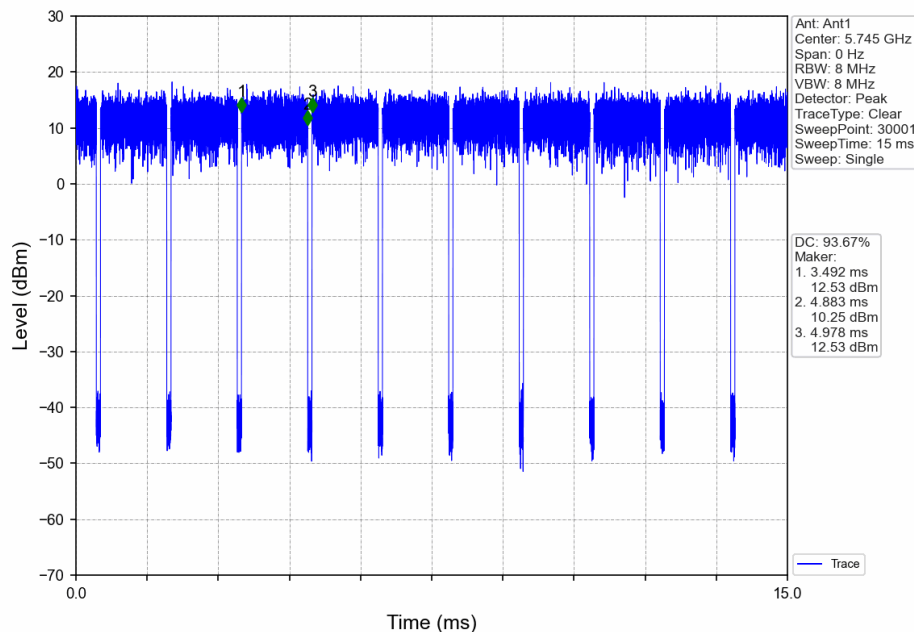


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802.11a_HCH_5700MHz_Ant1_NTNV

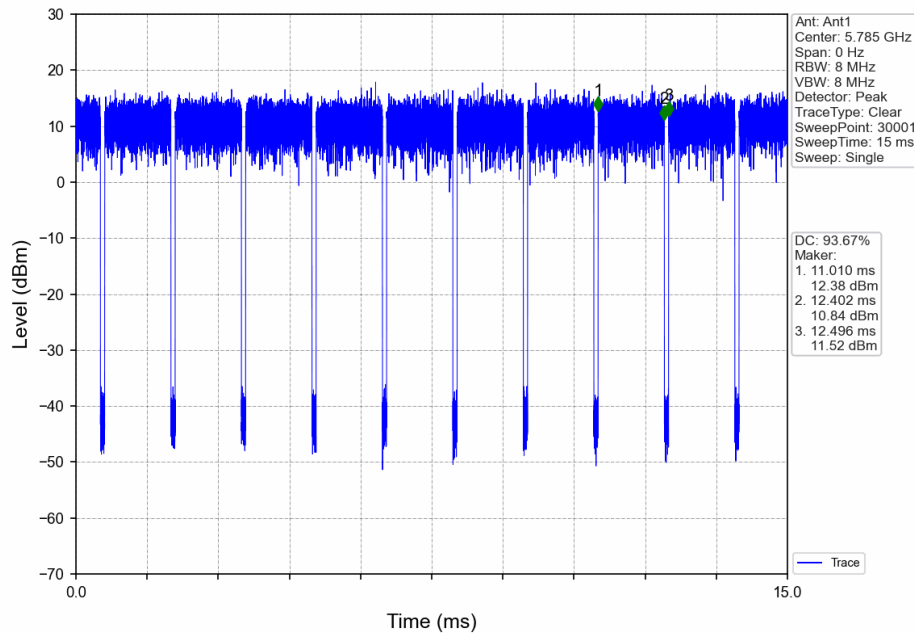


802.11a_LCH_5745MHz_Ant1_NTNV

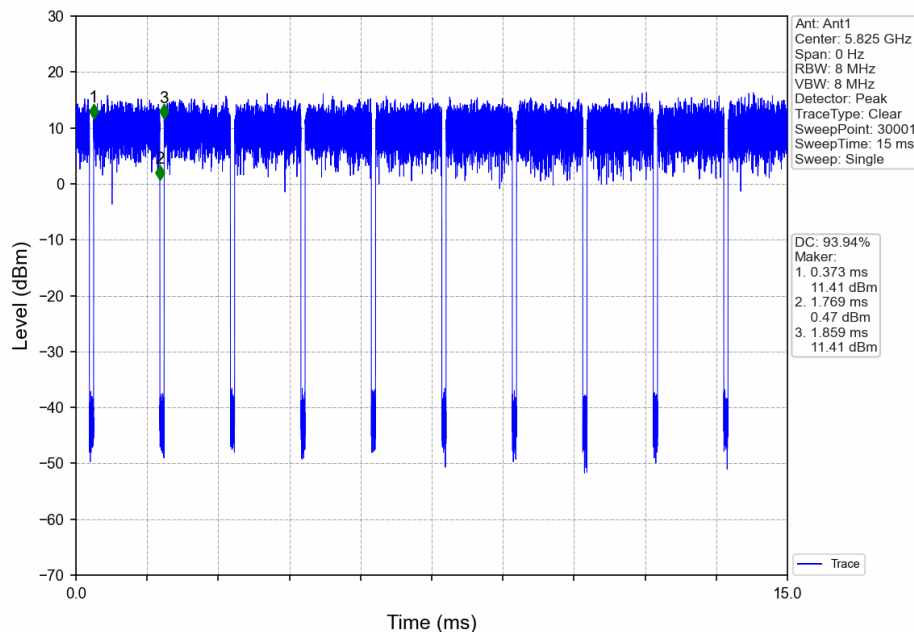


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802.11a_MCH_5785MHz_Ant1_NTNV



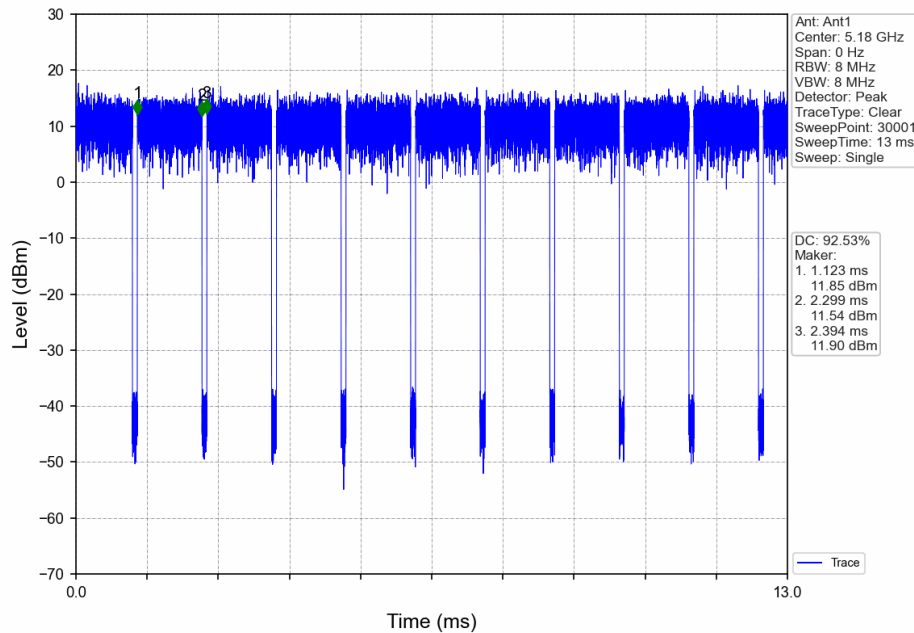
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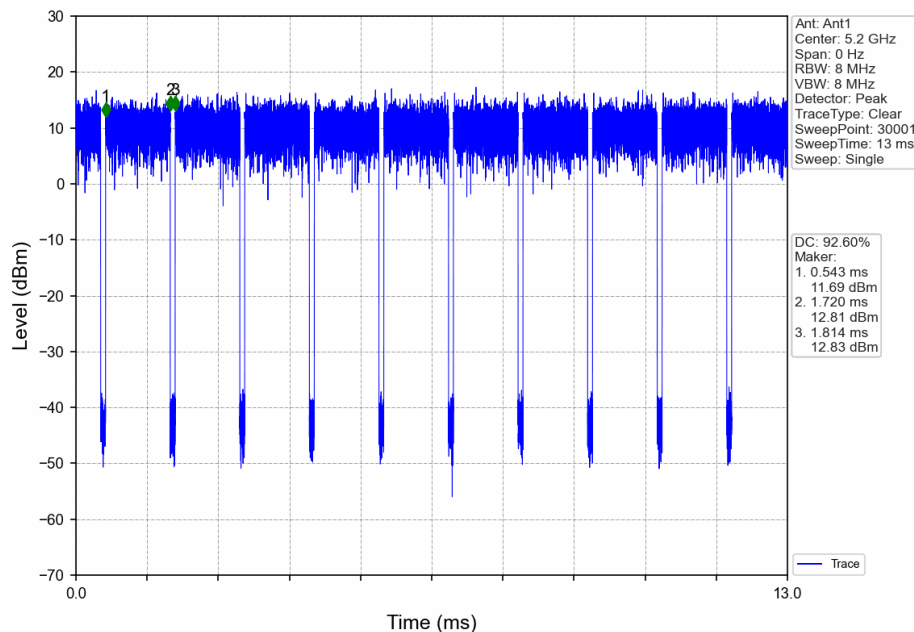
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



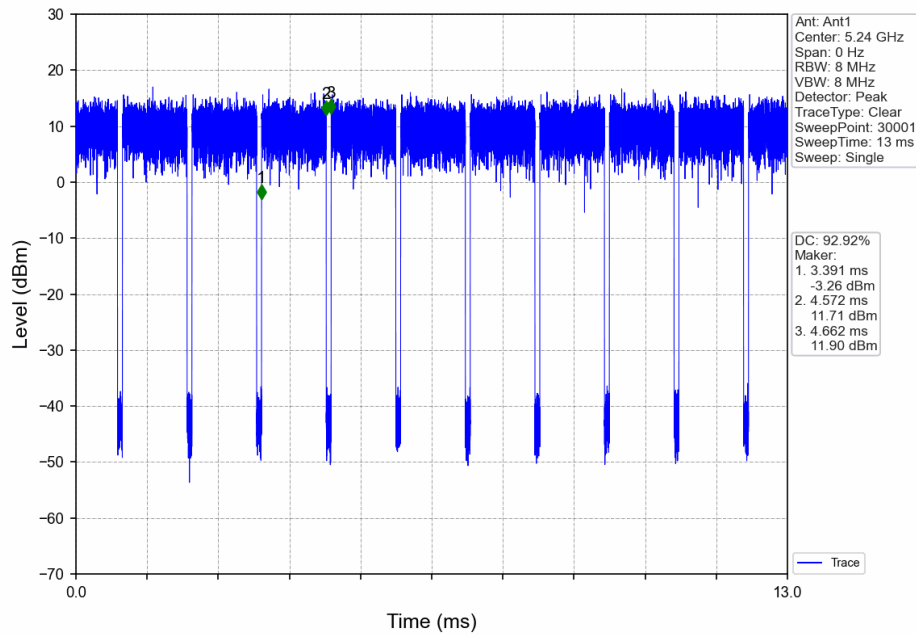
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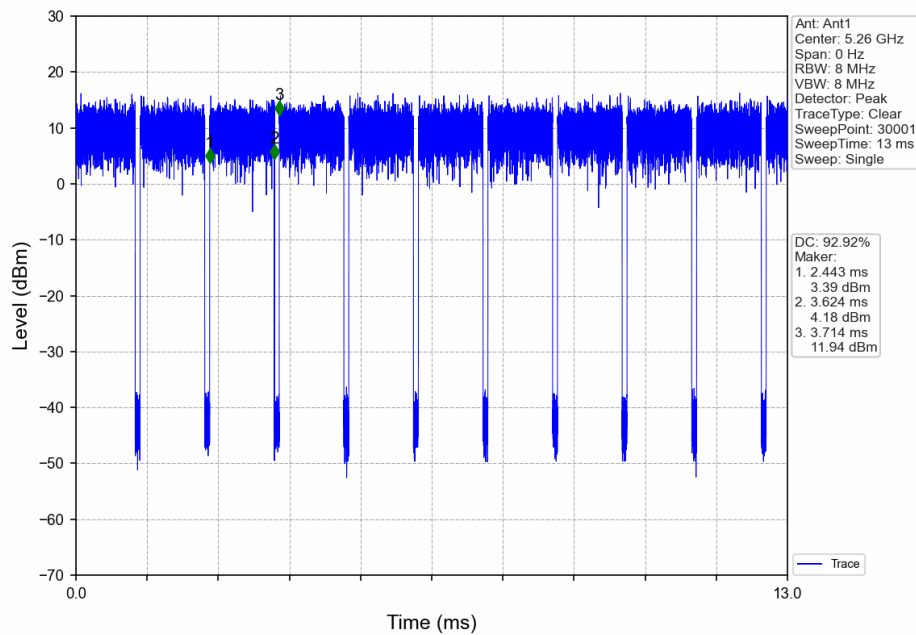
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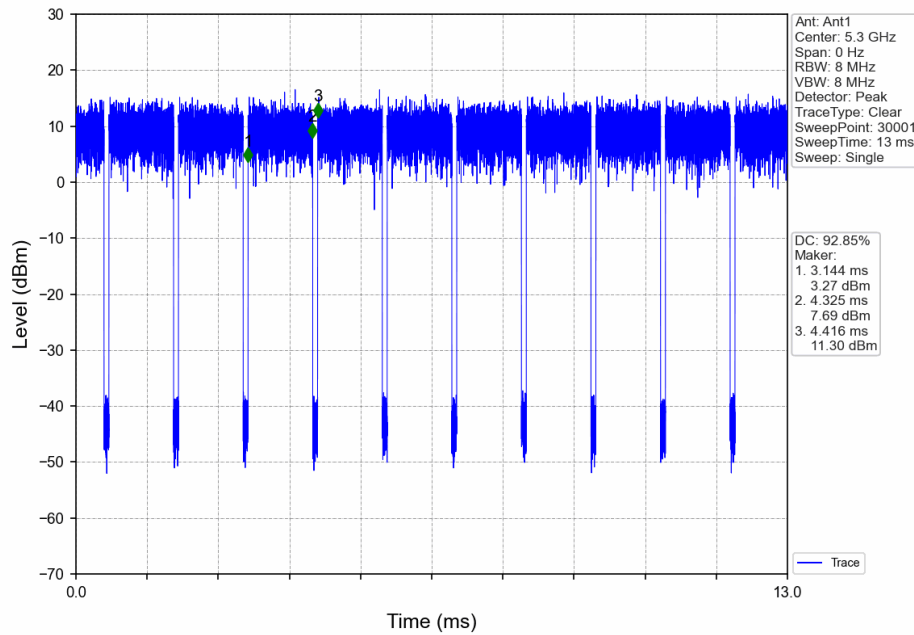
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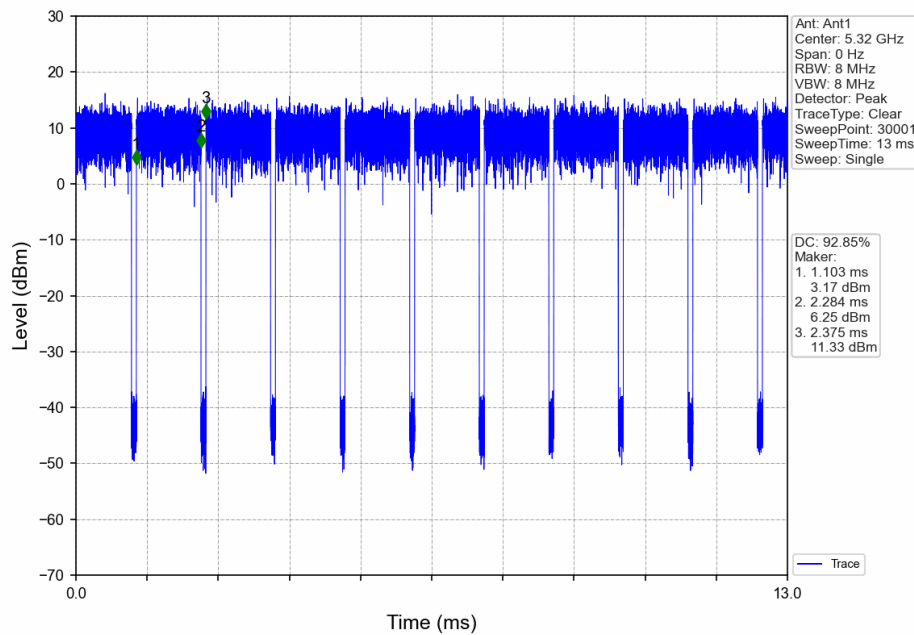
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



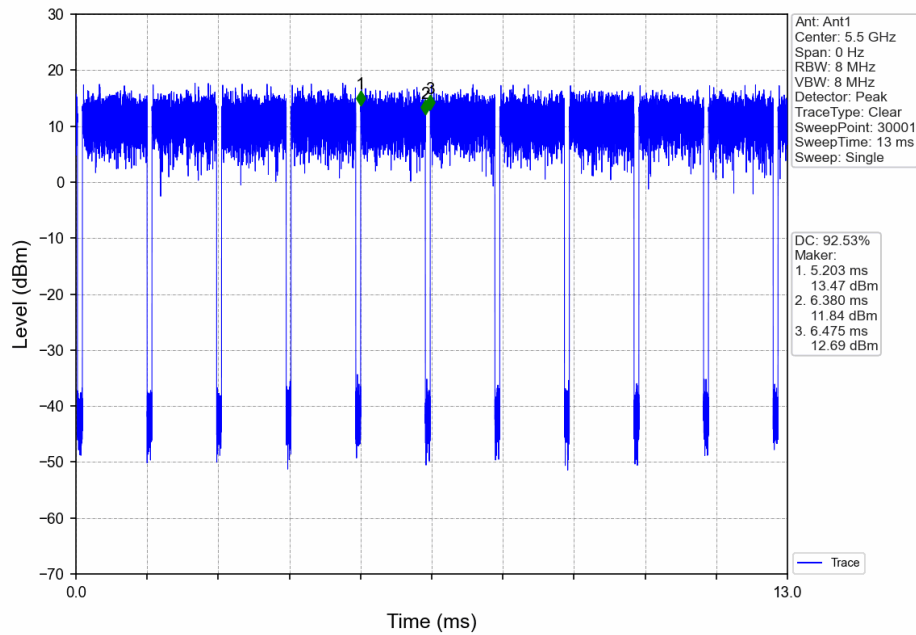
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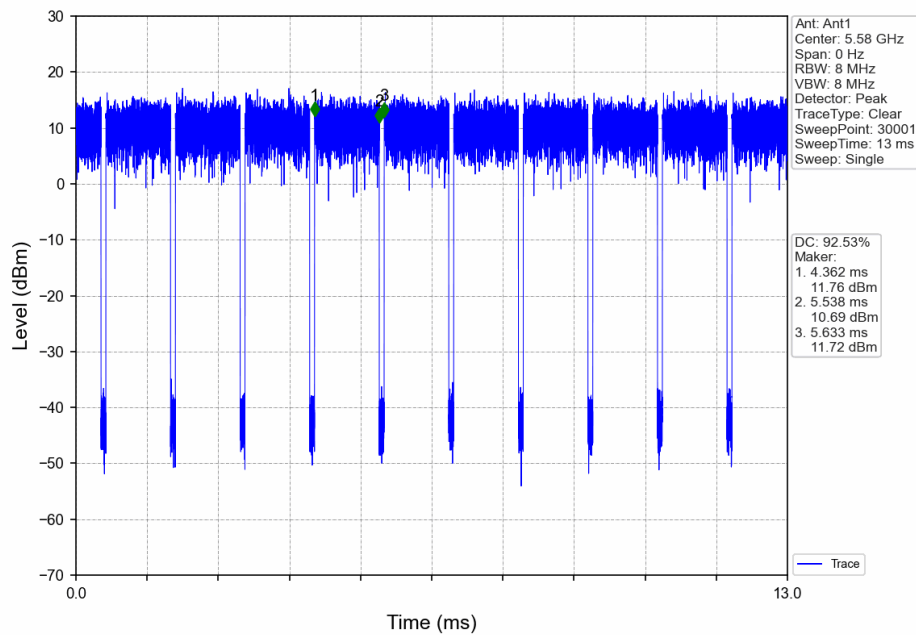
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



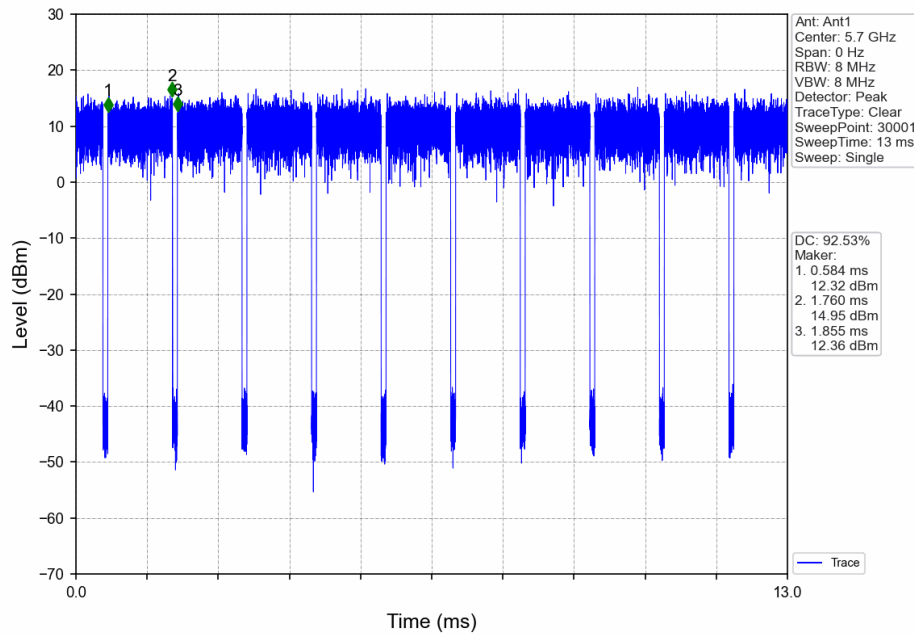
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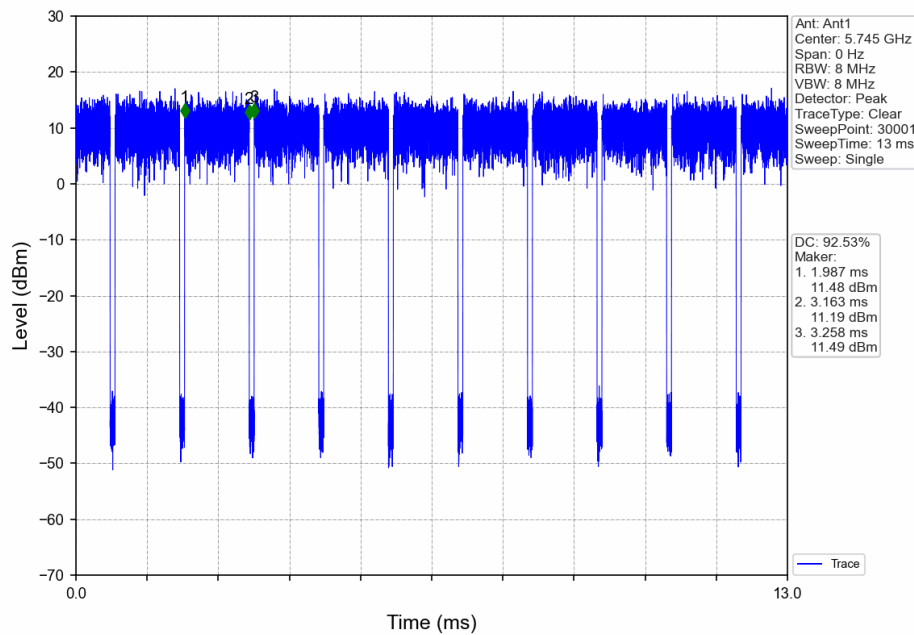
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV

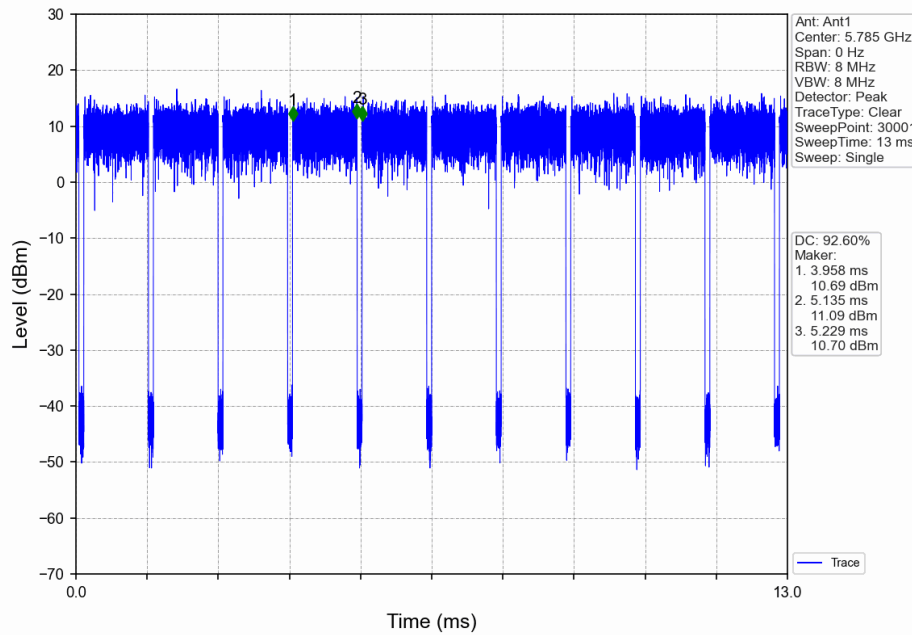


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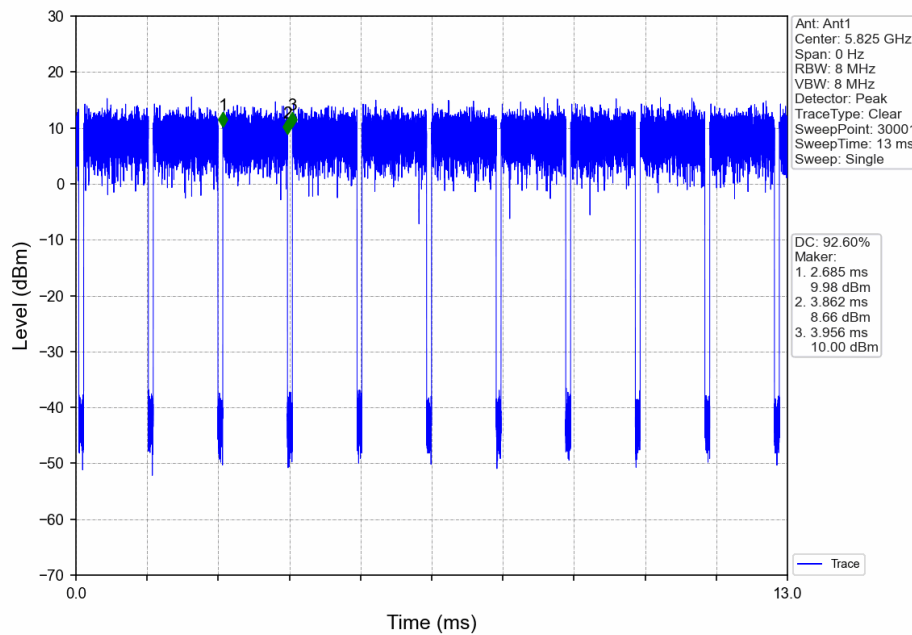


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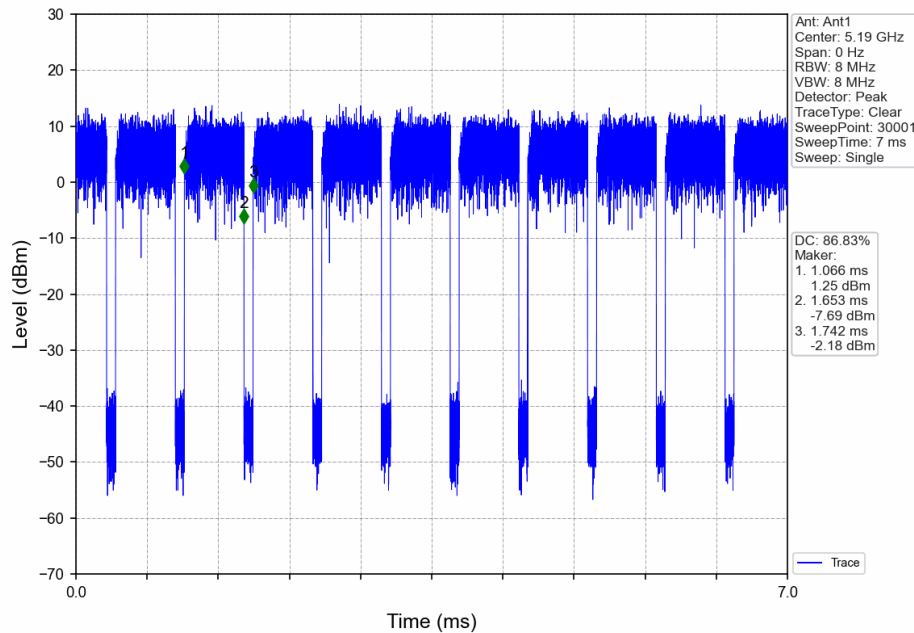
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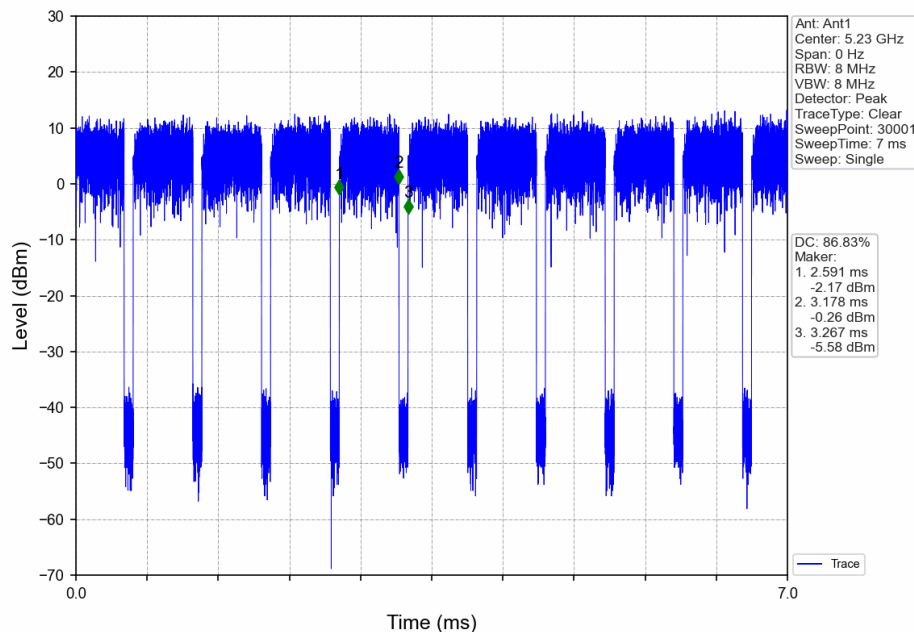
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



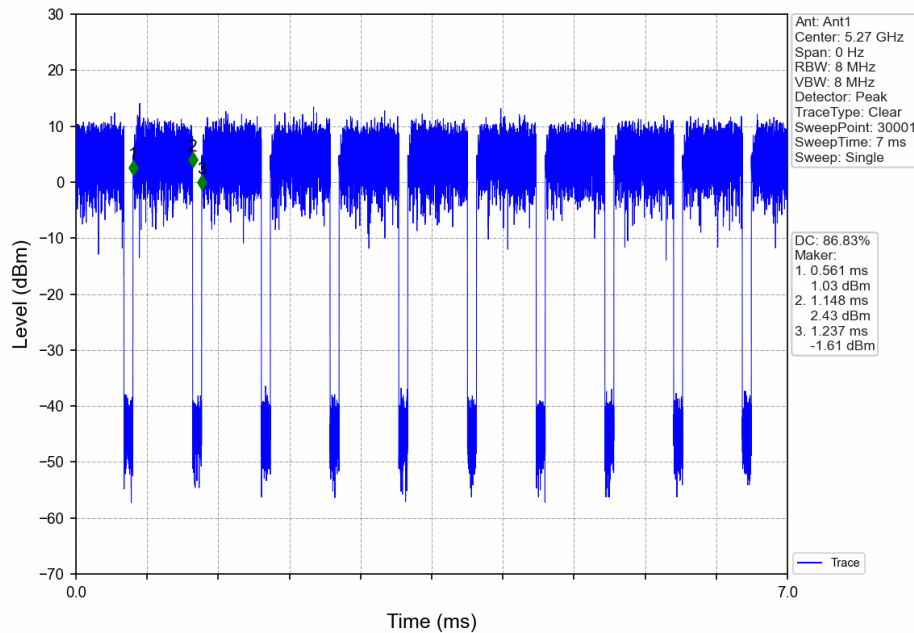
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



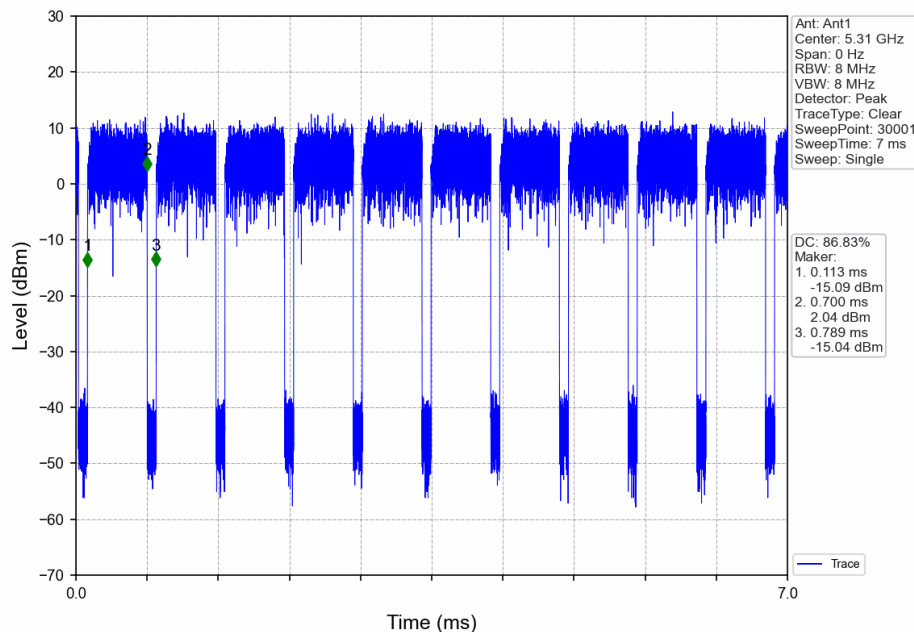
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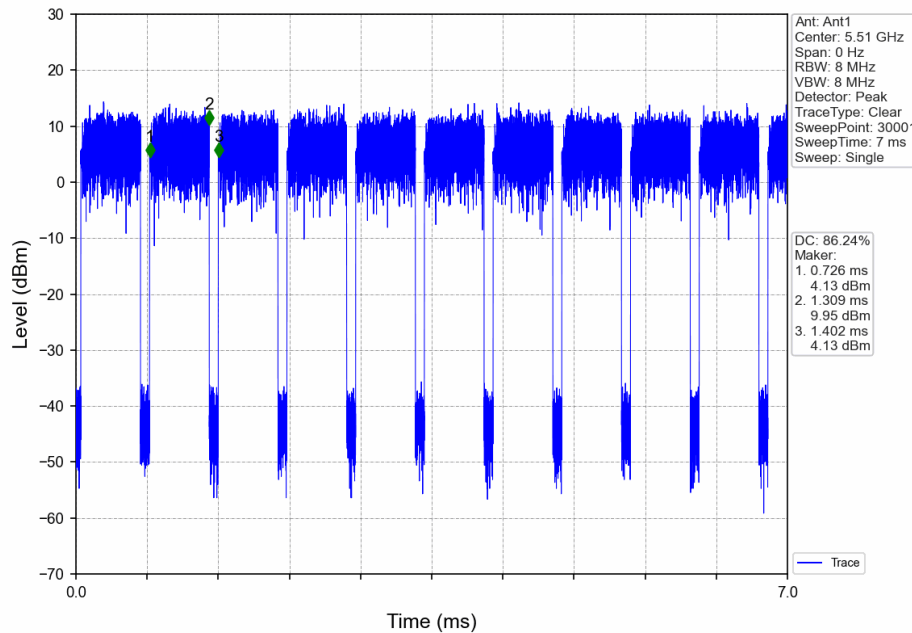
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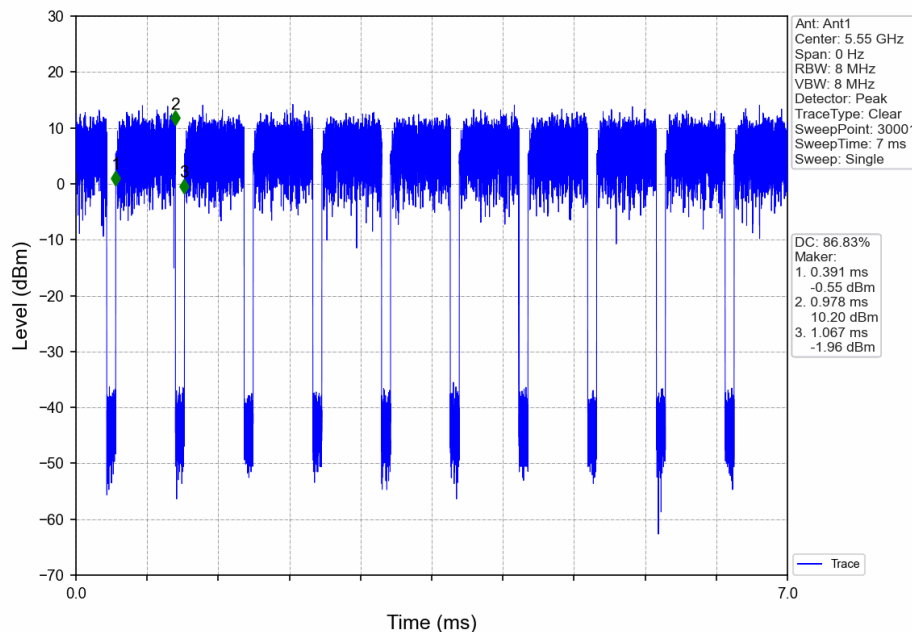
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



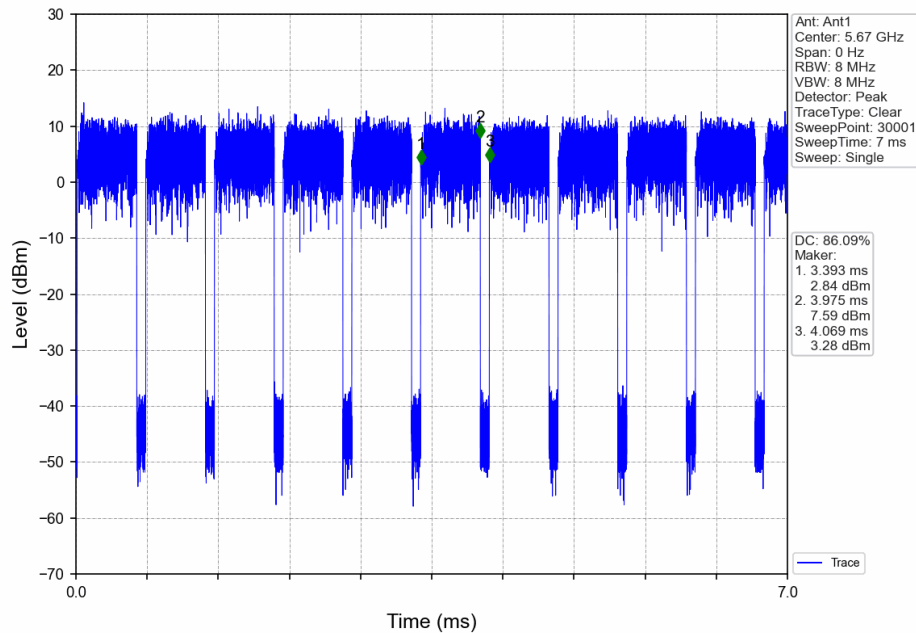
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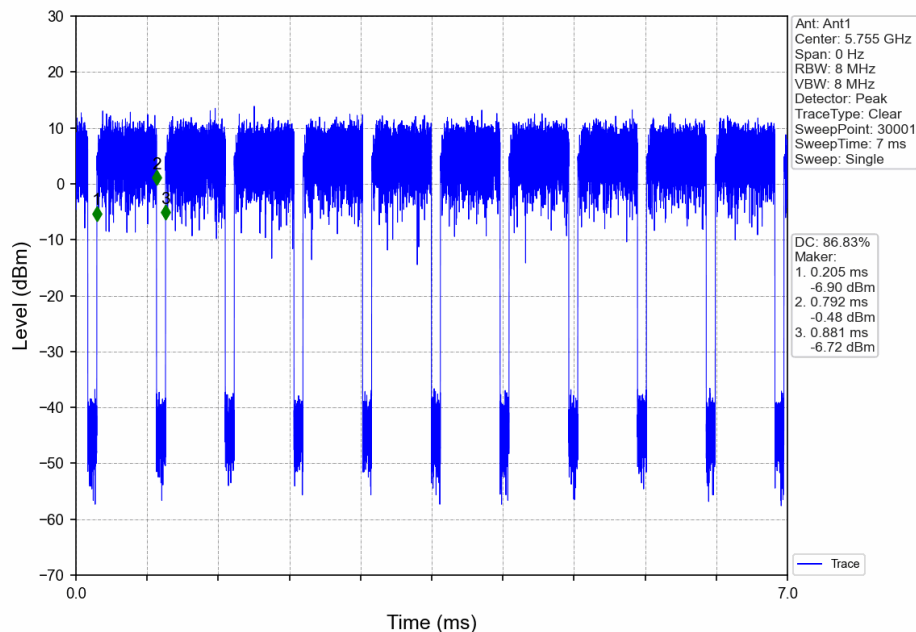
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV

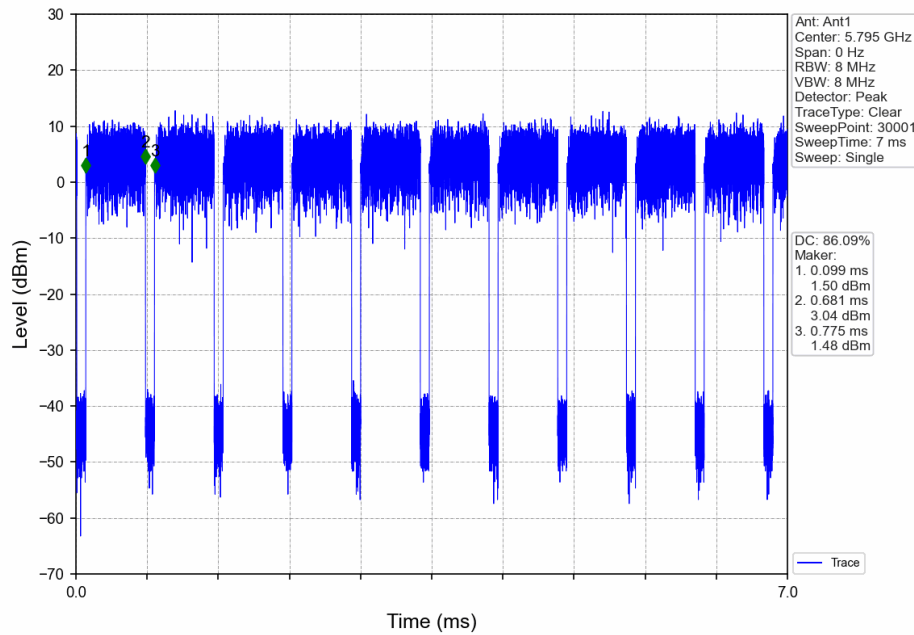


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

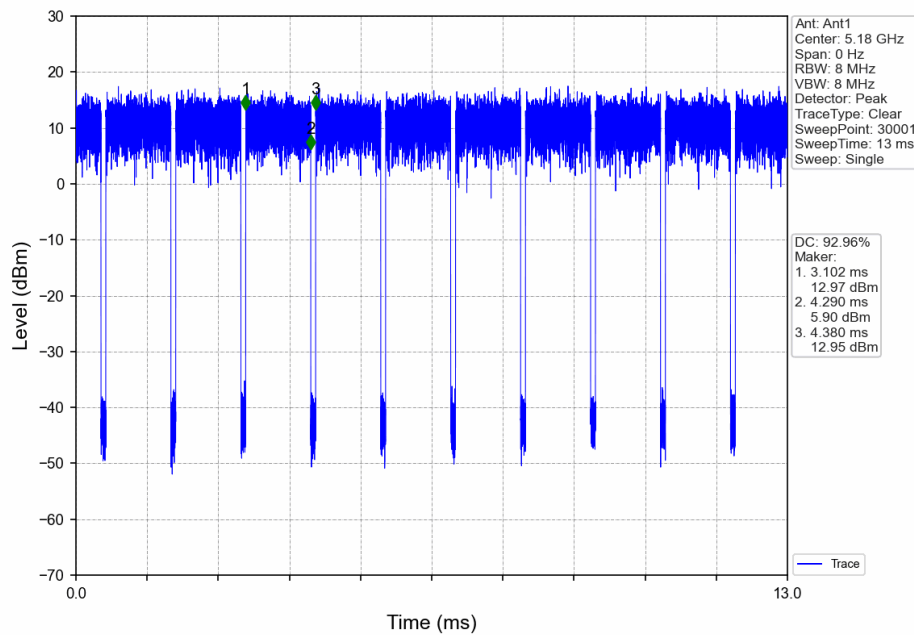


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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

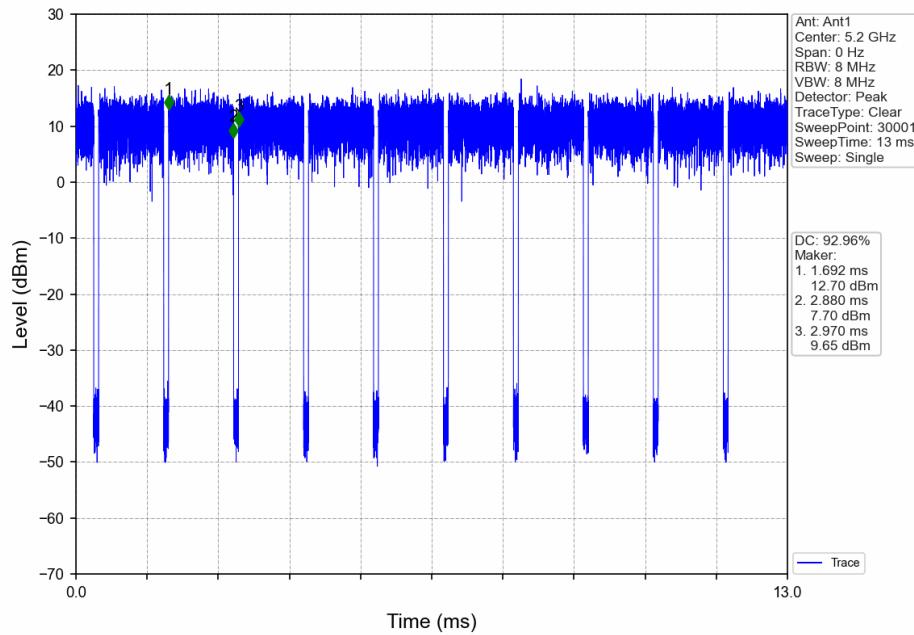


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

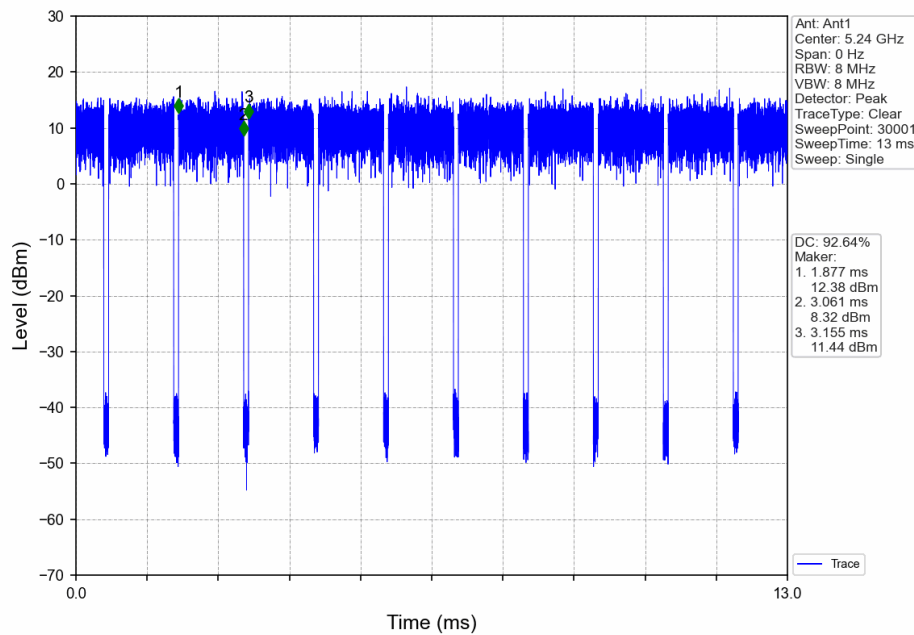


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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



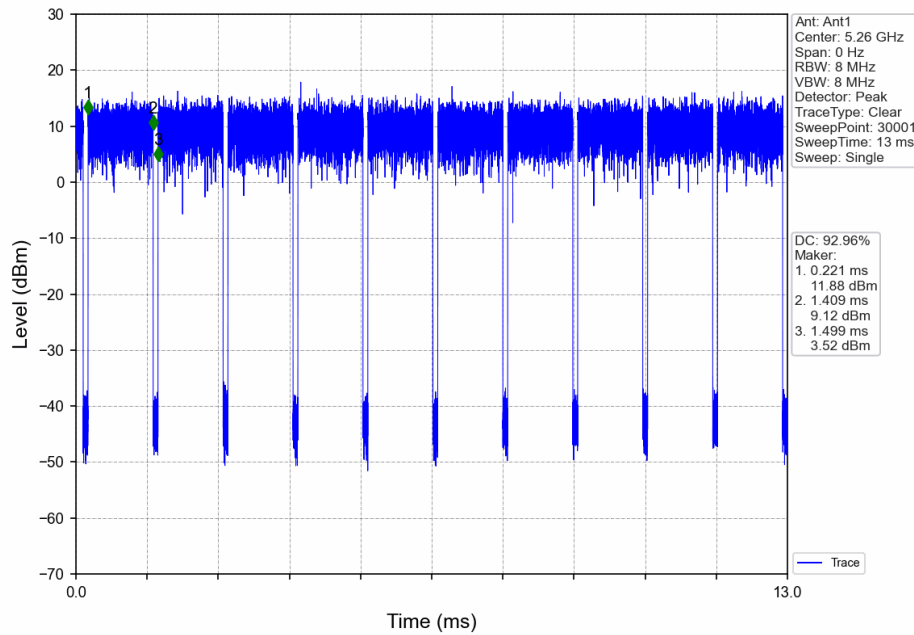
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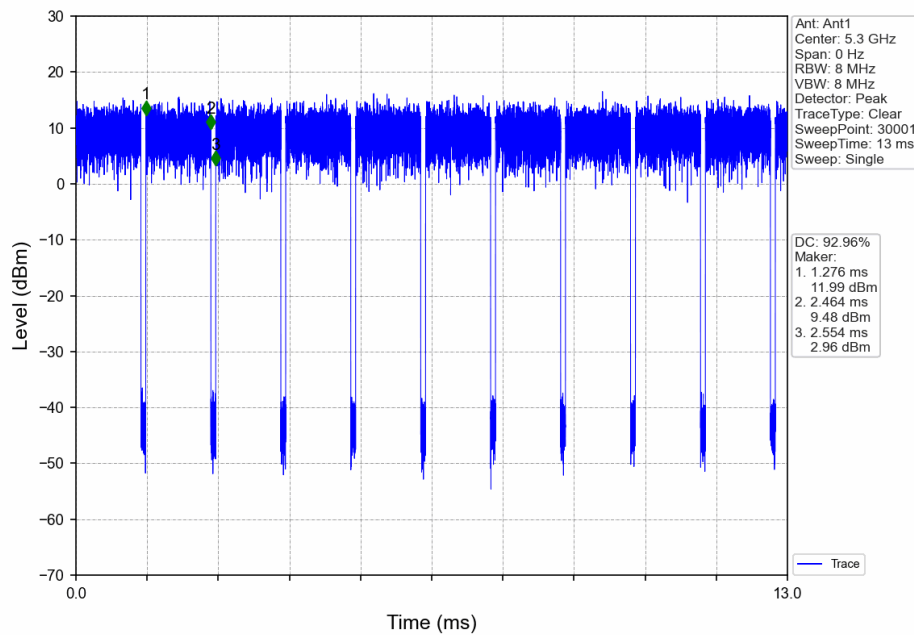
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV

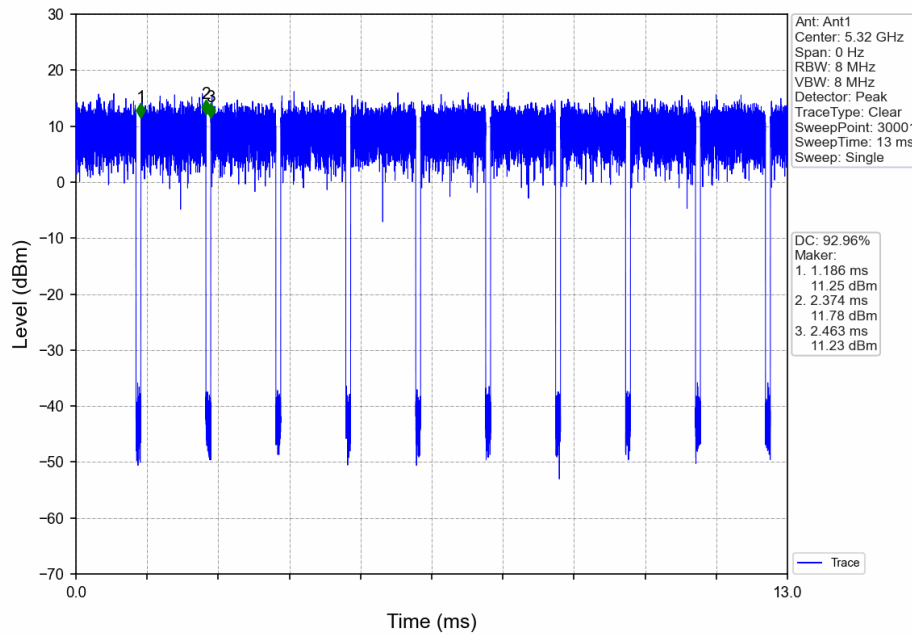


802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV

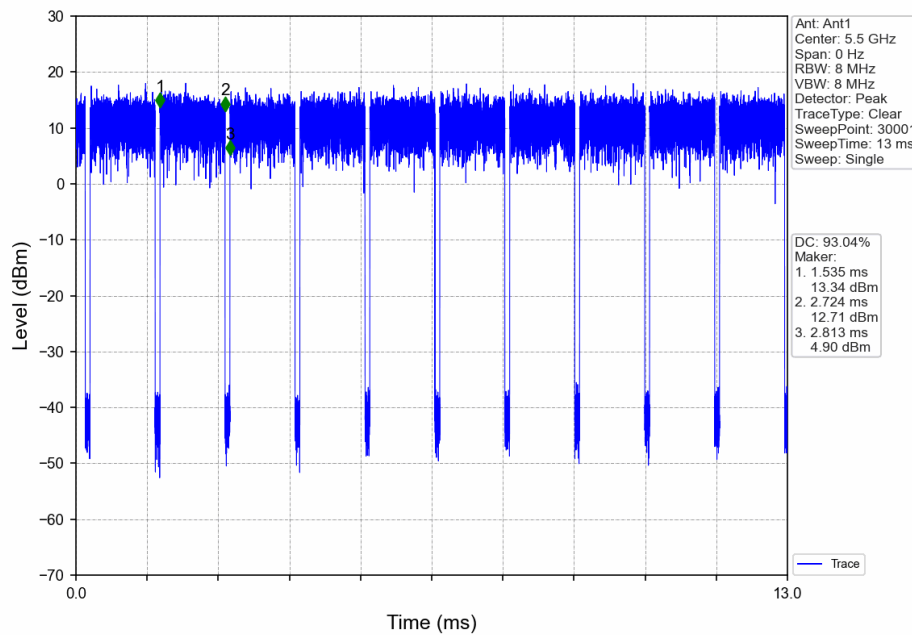


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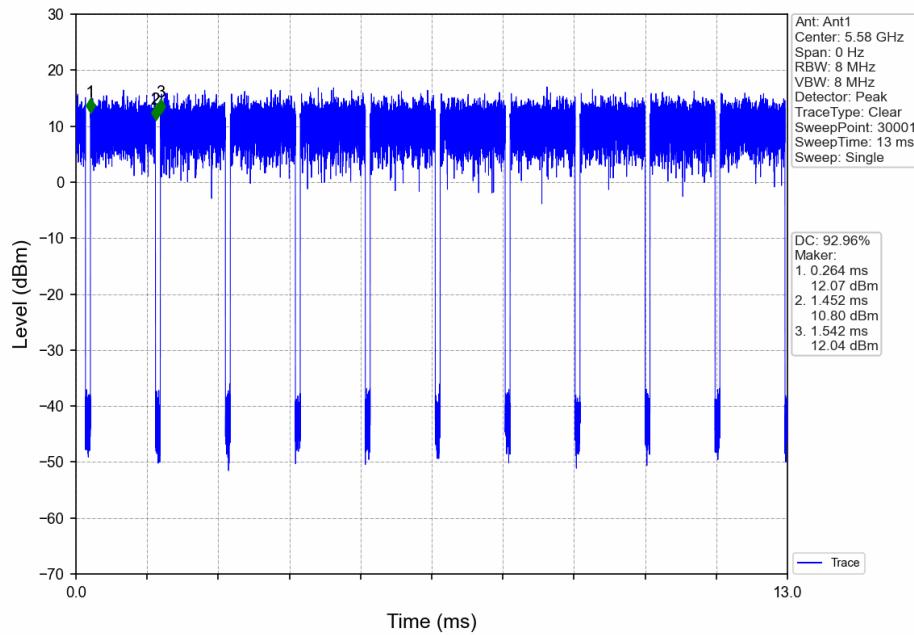
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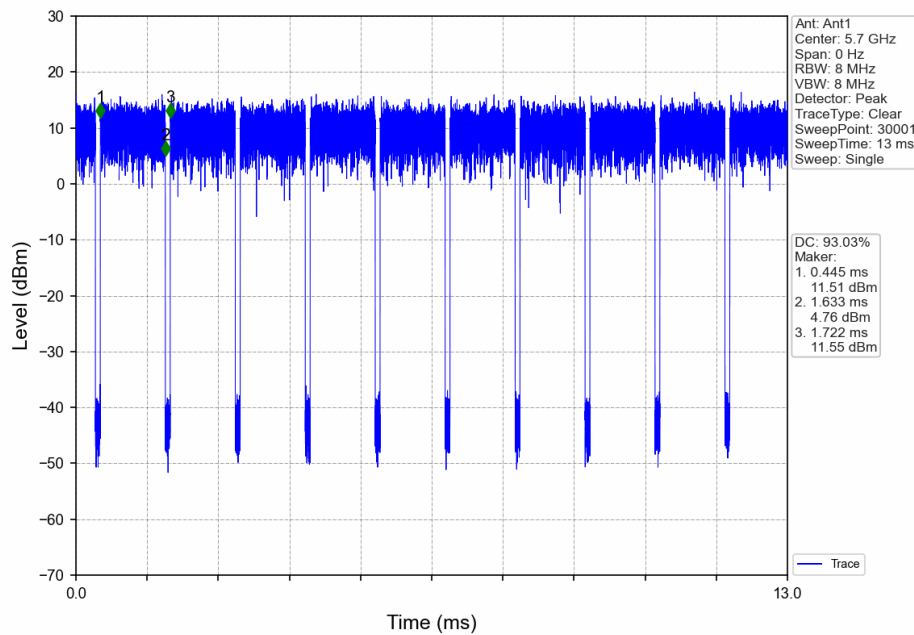
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

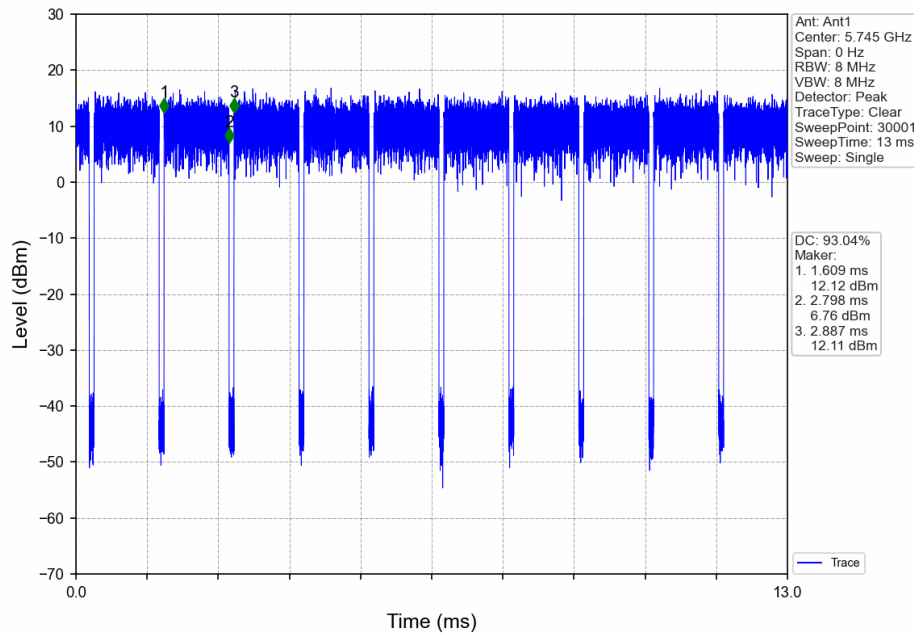


802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

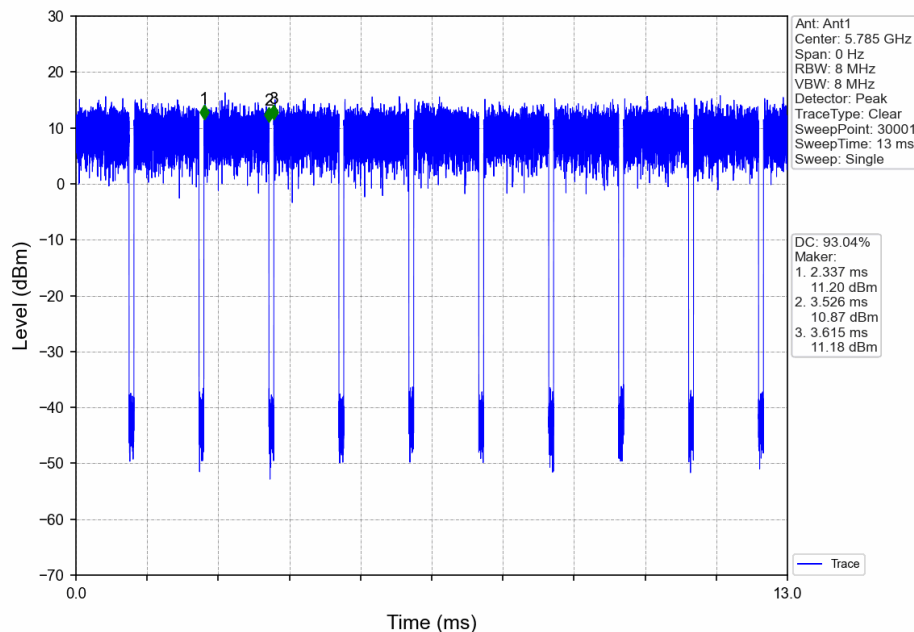


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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

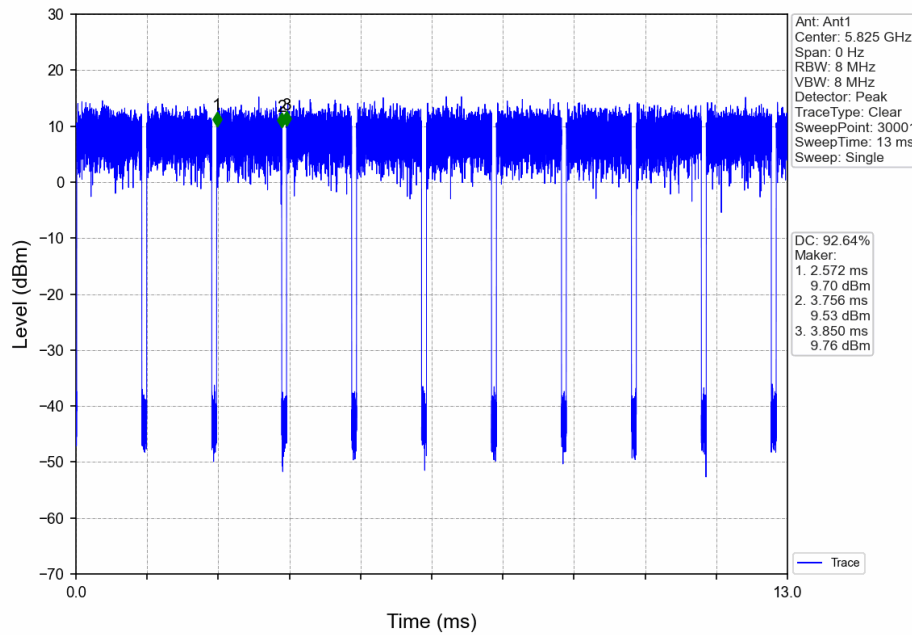


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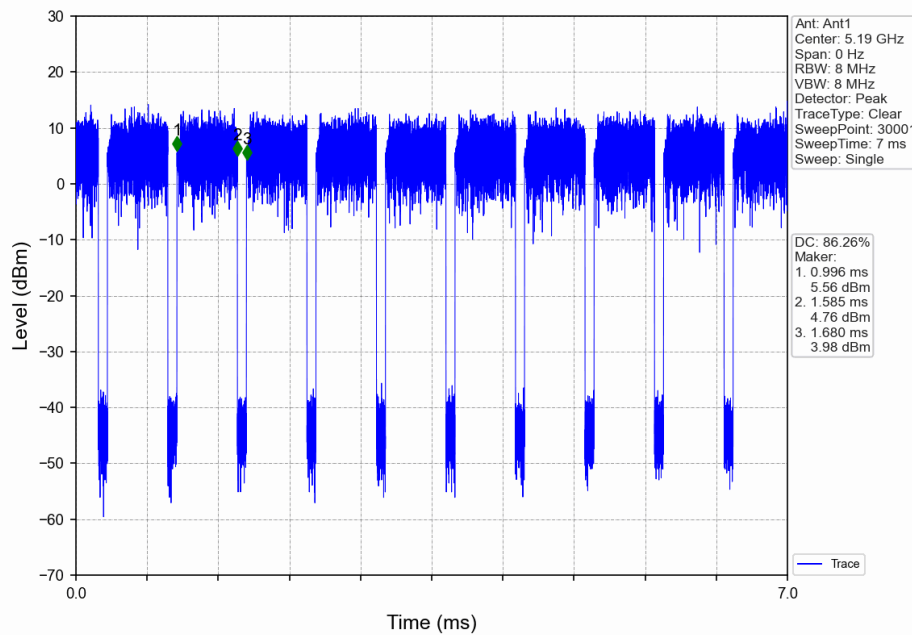


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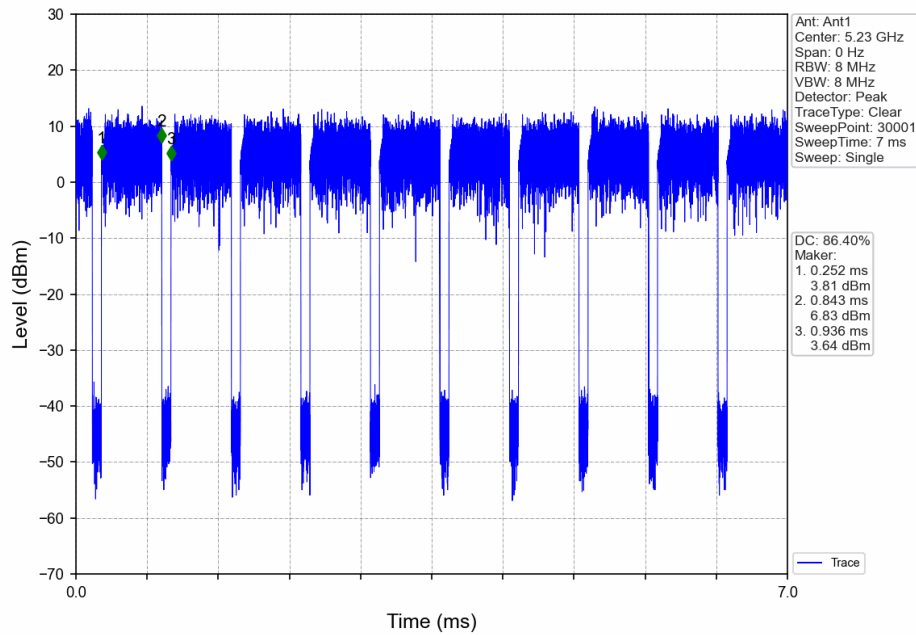
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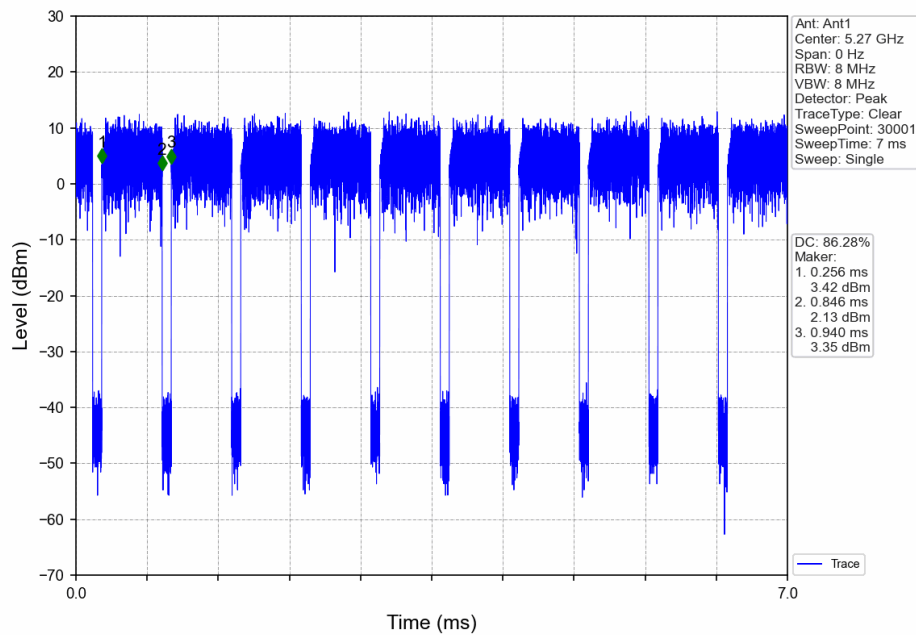
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



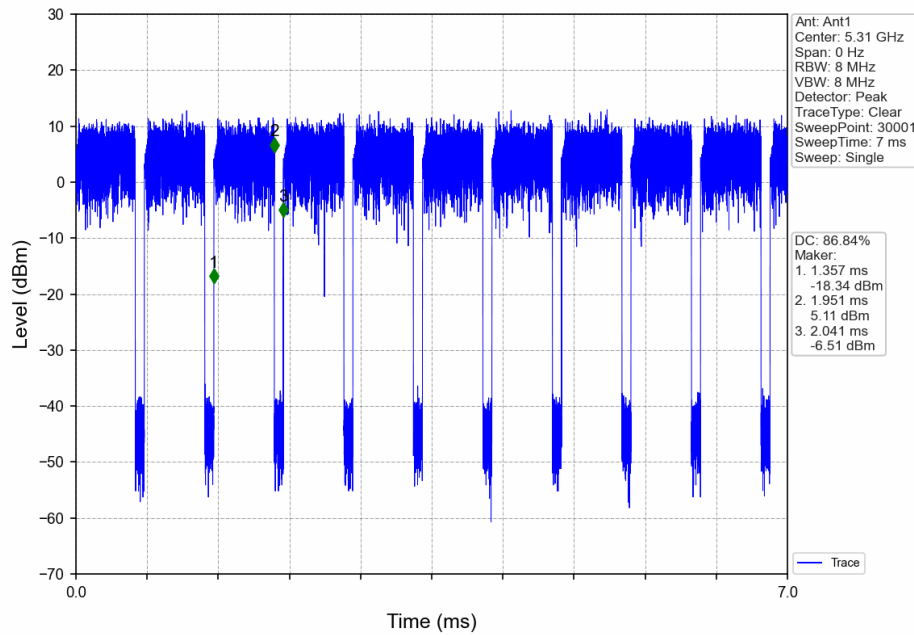
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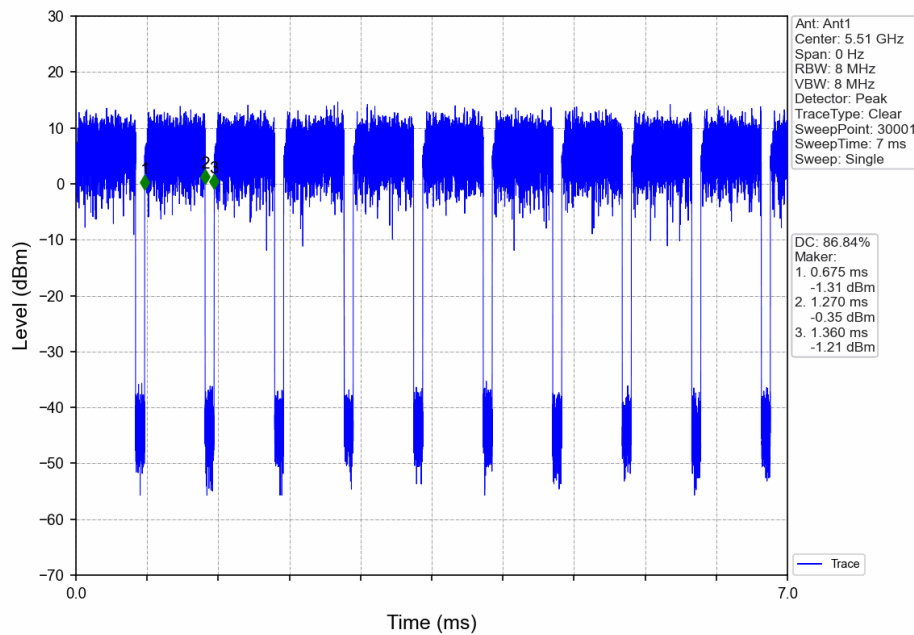
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



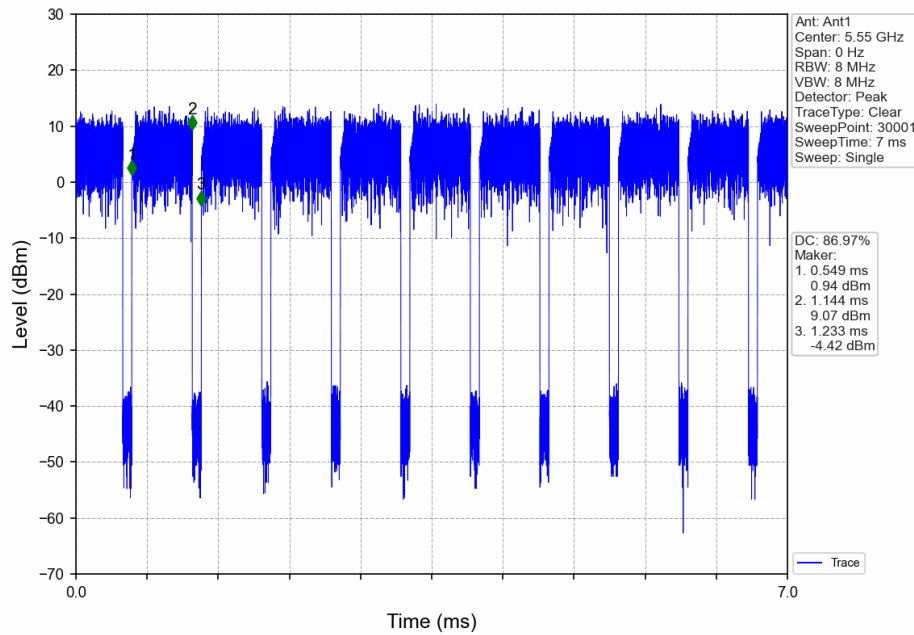
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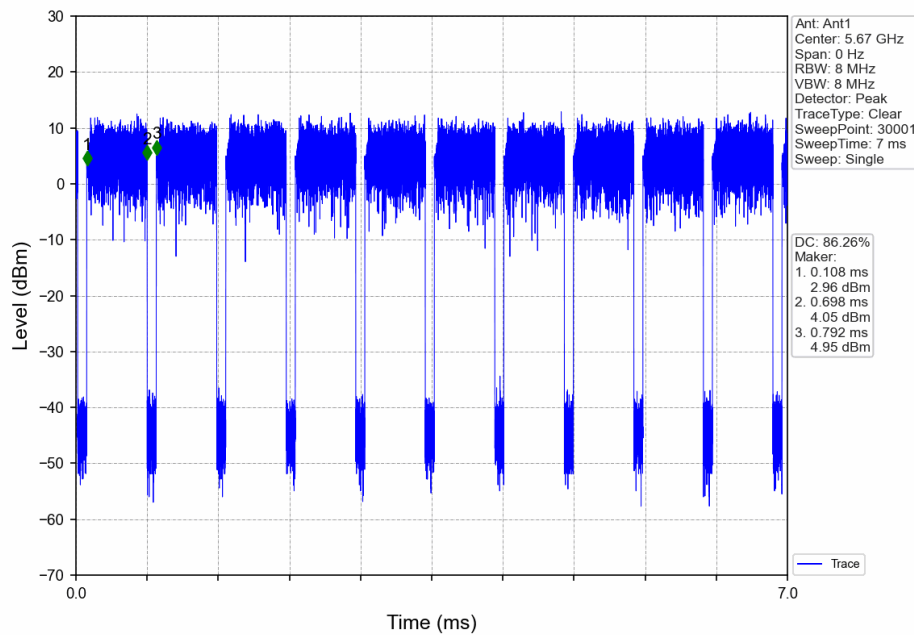
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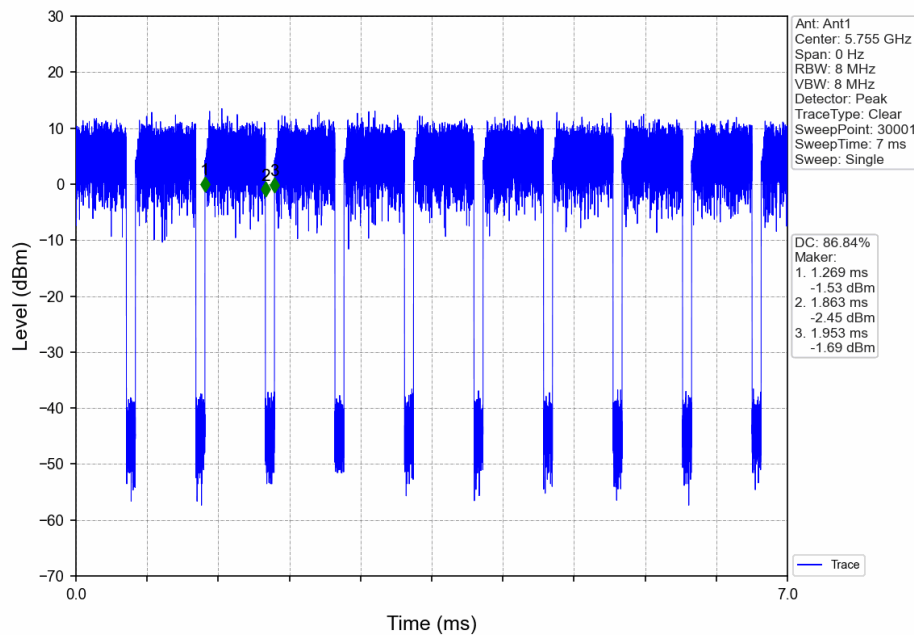
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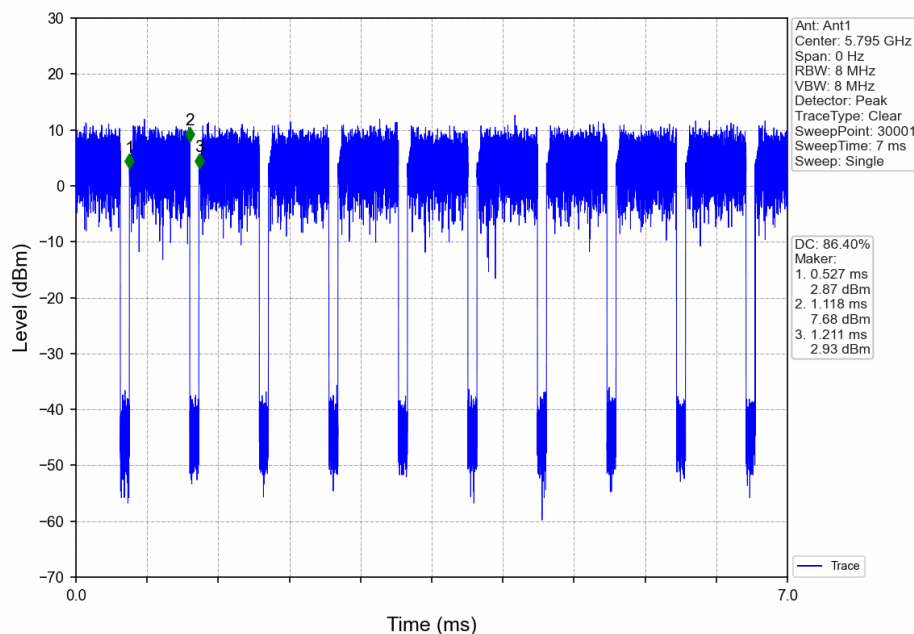
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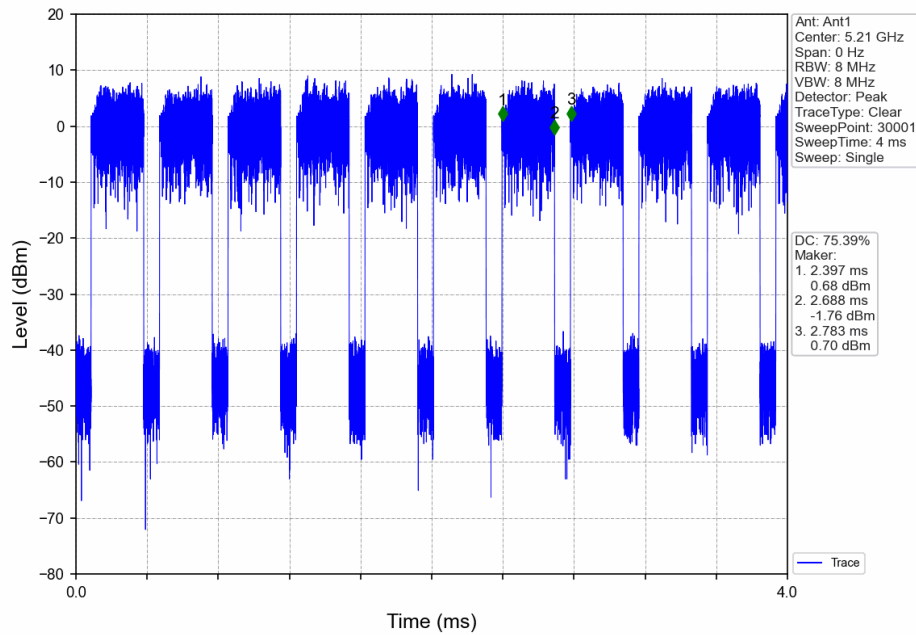
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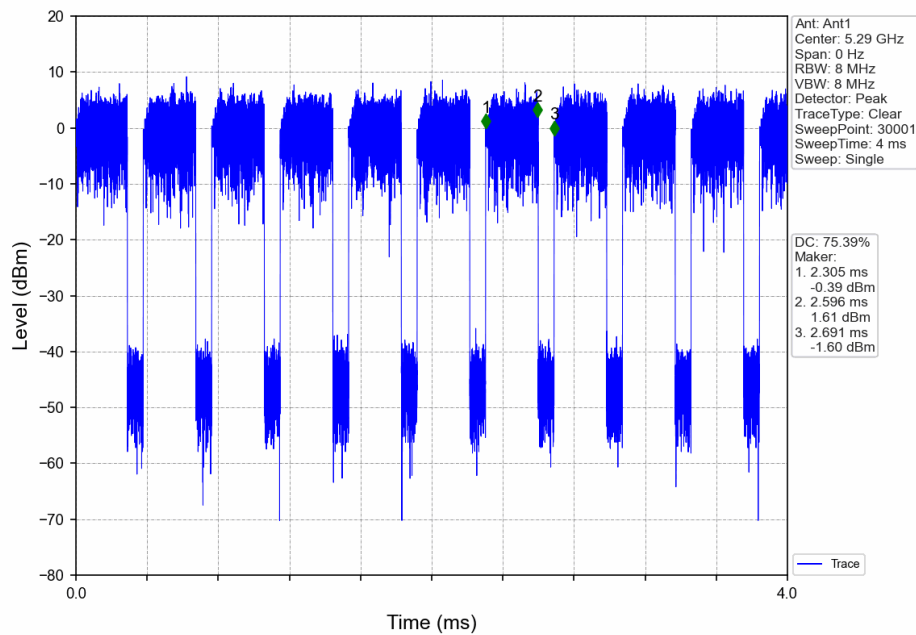
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



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