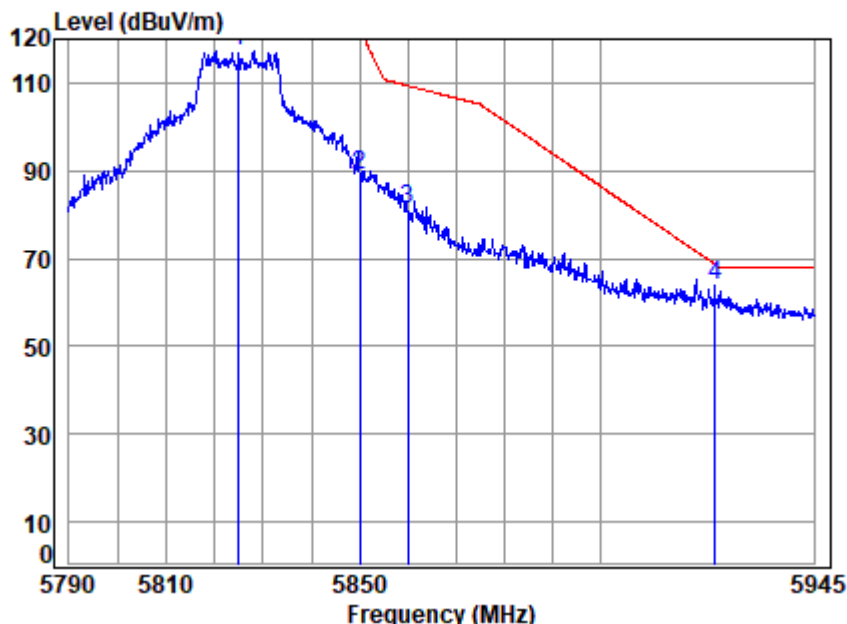


Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03697AT/03699AT

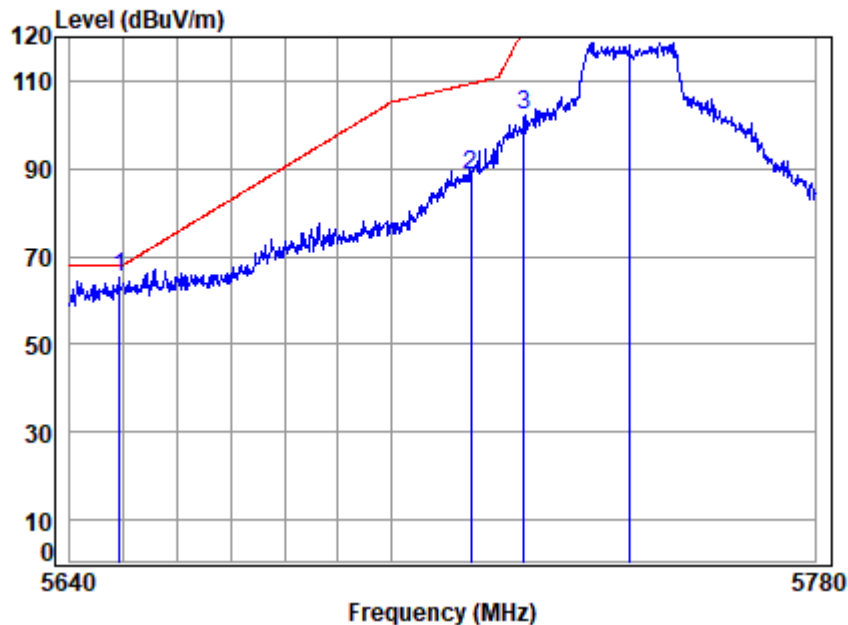
Mode : 5825 Band edge

Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.00	8.05	34.35	34.98	109.70	117.12	-----	----- peak
2	5850.00	8.07	34.40	34.97	81.50	89.00	122.20	-33.20 peak
3	5860.00	8.07	34.44	34.96	73.80	81.35	109.40	-28.05 peak
4	5924.15	8.12	34.65	34.93	55.84	63.68	68.83	-5.15 Peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

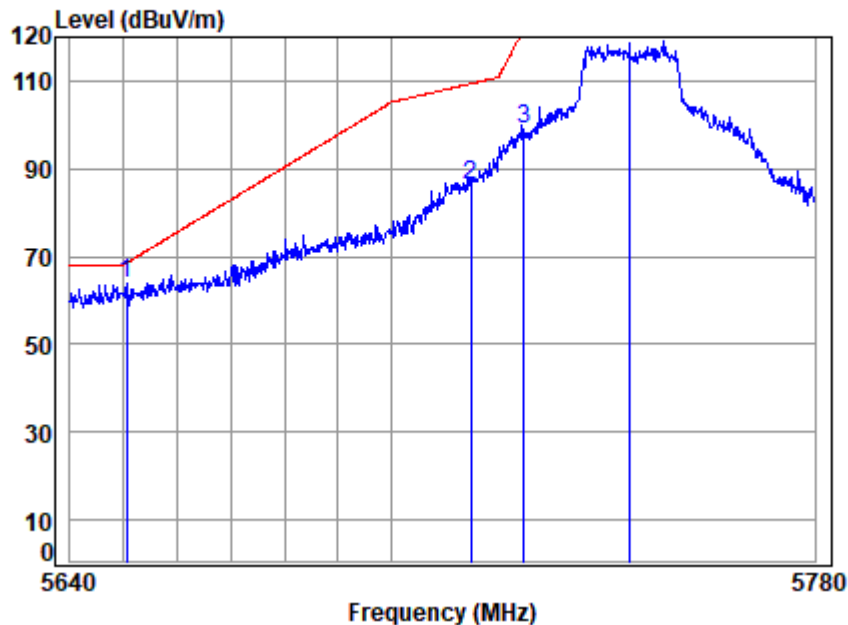


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03697AT/03699AT
Mode : 5745 Band edge
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5649.14	7.93	34.41	35.06	58.05	65.33	68.20	-2.87 Peak
2	5715.00	7.97	34.27	35.03	81.33	88.54	109.40	-20.86 peak
3	5725.00	7.98	34.25	35.03	95.03	102.23	122.20	-19.97 peak
4	5745.00	7.99	34.21	35.02	111.62	118.80	-----	----- peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03697AT/03699AT

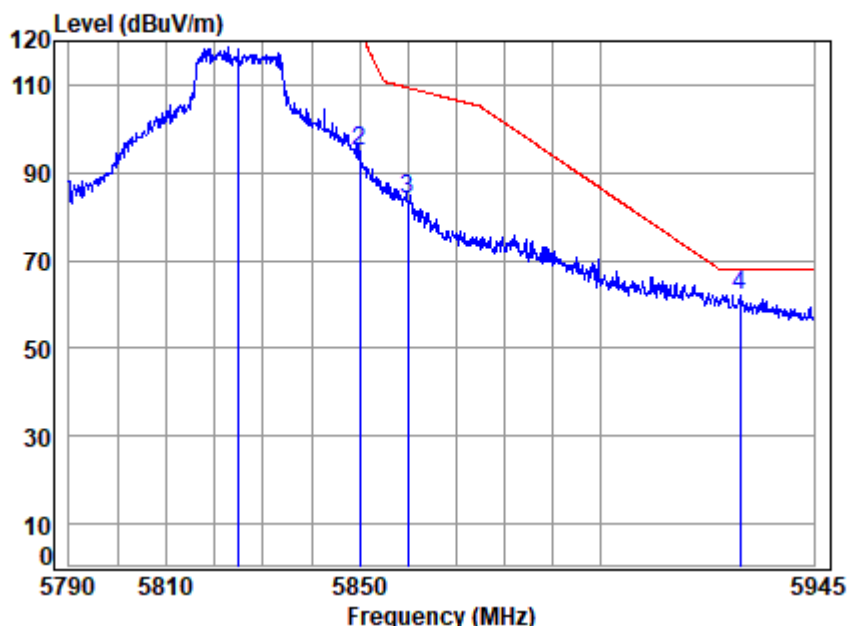
Mode : 5745 Band edge

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5650.52	7.93	34.40	35.06	56.71	63.98	68.59	-4.61 Peak
2	5715.00	7.97	34.27	35.03	79.11	86.32	109.40	-23.08 peak
3	5725.00	7.98	34.25	35.03	92.01	99.21	122.20	-22.99 peak
4	5745.00	7.99	34.21	35.02	111.71	118.89	-----	----- peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03697AT/03699AT

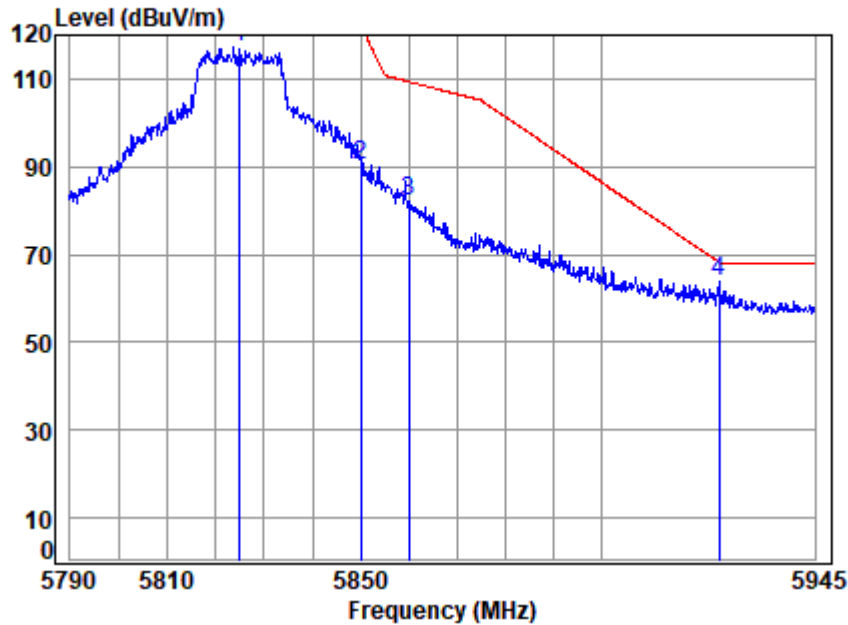
Mode : 5825 Band edge

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.00	8.05	34.35	34.98	111.02	118.44	-----	----- peak
2	5850.00	8.07	34.40	34.97	87.46	94.96	122.20	-27.24 peak
3	5860.00	8.07	34.44	34.96	76.37	83.92	109.40	-25.48 peak
4	5929.47	8.12	34.66	34.93	54.28	62.13	68.20	-6.07 Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

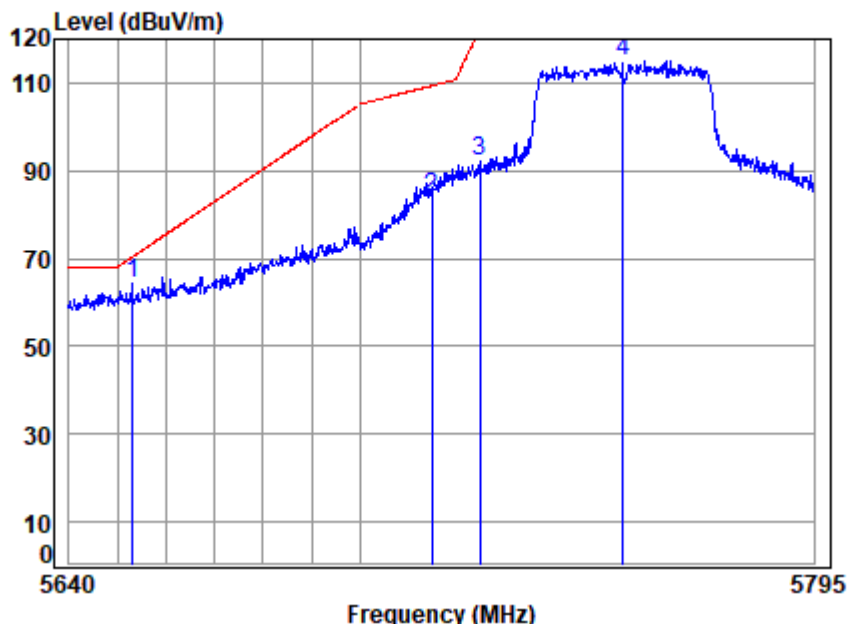


Site : chamber
Condition: 3m VERTICAL
Job No : 03697AT/03699AT
Mode : 5825 Band edge
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.00	8.05	34.35	34.98	109.89	117.31	-----	----- peak
2	5850.00	8.07	34.40	34.97	82.63	90.13	122.20	-32.07 peak
3	5860.00	8.07	34.44	34.96	74.58	82.13	109.40	-27.27 peak
4	5924.77	8.12	34.65	34.93	55.99	63.83	68.37	-4.54 Peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03697AT/03699AT

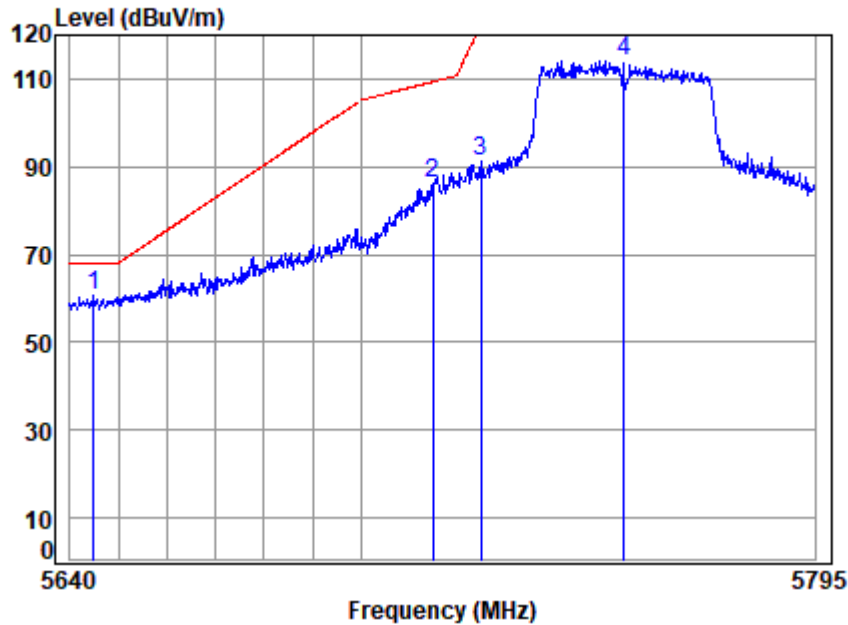
Mode : 5755 Band edge

Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5653.01	7.93	34.39	35.06	57.24	64.50	70.44	-5.94 Peak
2	5715.00	7.97	34.27	35.03	76.67	83.88	109.40	-25.52 peak
3	5725.00	7.98	34.25	35.03	84.77	91.97	122.20	-30.23 peak
4	5755.00	8.00	34.21	35.01	107.89	115.09	-----	----- peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

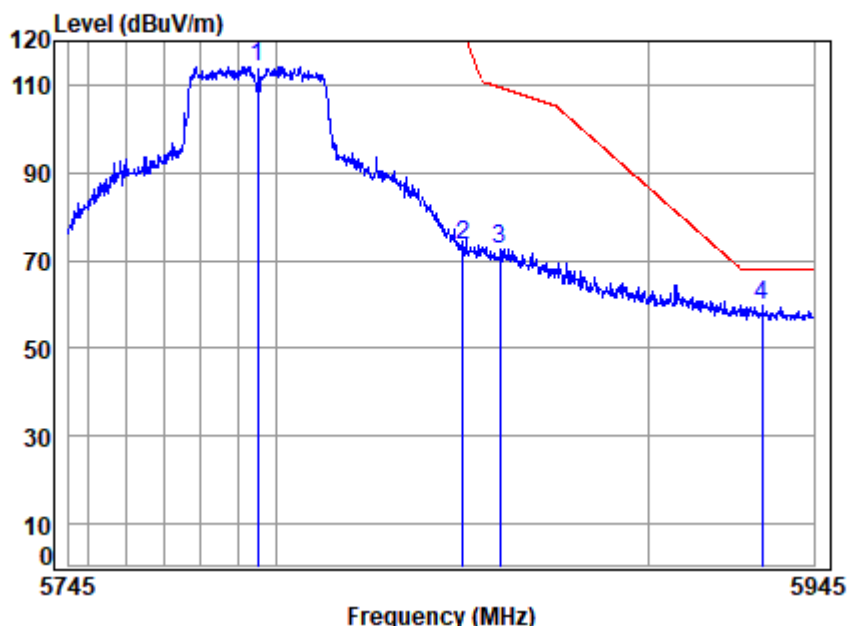


Site : chamber
Condition: 3m VERTICAL
Job No : 03697AT/03699AT
Mode : 5755 Band edge
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5644.90	7.92	34.43	35.06	53.42	60.71	68.20	-7.49 Peak
2	5715.00	7.97	34.27	35.03	78.99	86.20	109.40	-23.20 peak
3	5725.00	7.98	34.25	35.03	83.87	91.07	122.20	-31.13 peak
4	5755.00	8.00	34.21	35.01	107.07	114.27	-----	----- peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

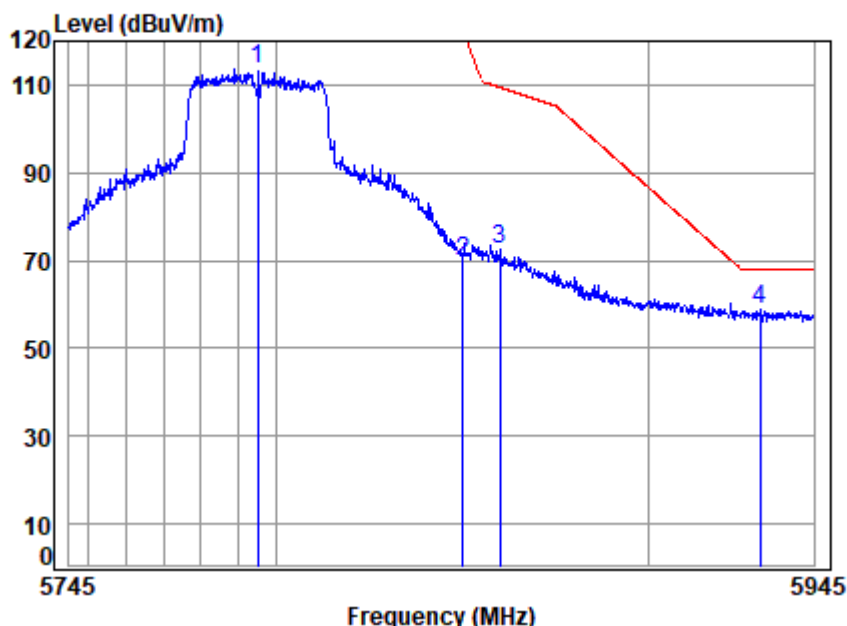


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03697AT/03699AT
Mode : 5795 Band edge
Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.00	8.03	34.29	34.99	106.91	114.24	-----	----- peak
2	5850.00	8.07	34.40	34.97	66.00	73.50	122.20	-48.70 peak
3	5860.00	8.07	34.44	34.96	64.93	72.48	109.40	-36.92 peak
4	5930.98	8.12	34.66	34.93	51.86	59.71	68.20	-8.49 Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03697AT/03699AT

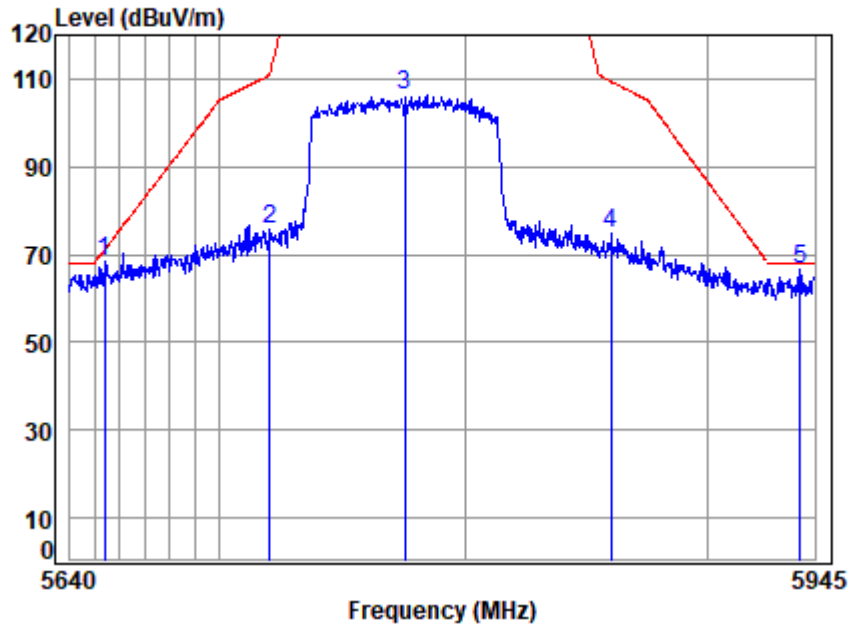
Mode : 5795 Band edge

Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.00	8.03	34.29	34.99	106.21	113.54	-----	----- peak
2	5850.00	8.07	34.40	34.97	62.52	70.02	122.20	-52.18 peak
3	5860.00	8.07	34.44	34.96	64.86	72.41	109.40	-36.99 peak
4	5930.37	8.12	34.66	34.93	50.93	58.78	68.20	-9.42 Peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03697AT/03699AT

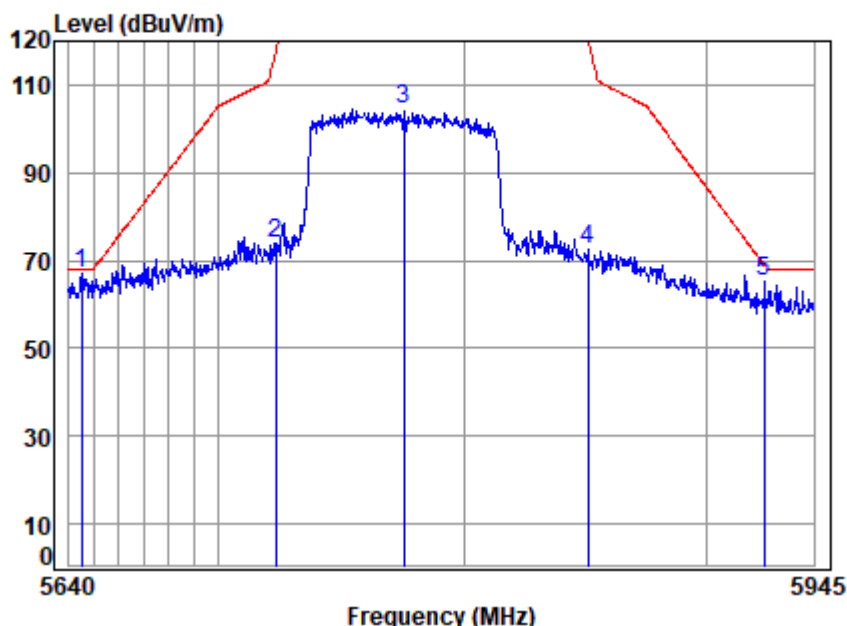
Mode : 5775 Band edge

Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5653.98	7.93	34.39	35.06	61.33	68.59	71.16	-2.57 Peak
2	5720.17	7.98	34.26	35.03	68.49	75.70	111.19	-35.49 peak
3	5775.00	8.01	34.25	35.00	99.08	106.34	-----	----- peak
4	5860.14	8.07	34.44	34.96	67.30	74.85	109.36	-34.51 peak
5	5938.74	8.13	34.68	34.93	58.53	66.41	68.20	-1.79 Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 03697AT/03699AT

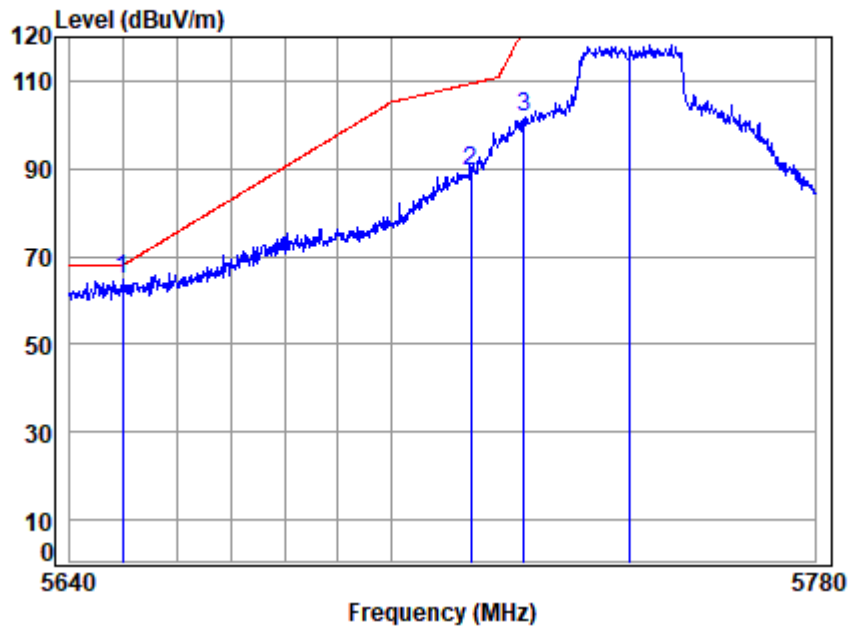
Mode : 5775 Band edge

Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5645.05	7.92	34.43	35.06	59.88	67.17	68.20	-1.03 Peak
2	5722.88	7.98	34.25	35.03	66.77	73.97	117.37	-43.40 peak
3	5775.00	8.01	34.25	35.00	97.04	104.30	-----	----- peak
4	5850.88	8.07	34.40	34.97	64.84	72.34	120.19	-47.85 peak
5	5924.37	8.12	34.65	34.93	57.25	65.09	68.66	-3.57 Peak



Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03697AT/03699AT

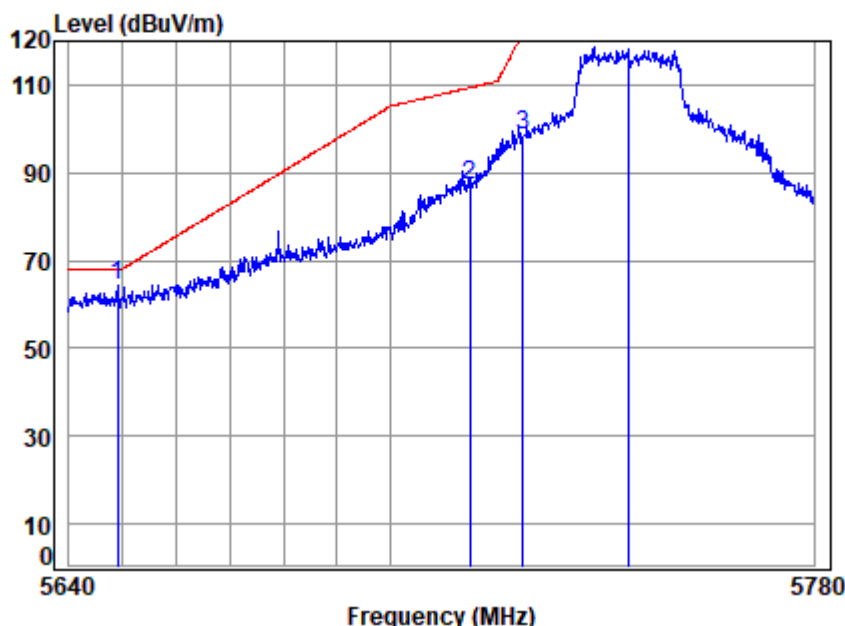
Mode : 5745 Band edge

Note : 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5649.83	7.93	34.40	35.06	57.45	64.72	68.20	-3.48 Peak
2	5715.00	7.97	34.27	35.03	82.00	89.21	109.40	-20.19 peak
3	5725.00	7.98	34.25	35.03	94.64	101.84	122.20	-20.36 peak
4	5745.00	7.99	34.21	35.02	110.99	118.17	-----	----- peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03697AT/03699AT

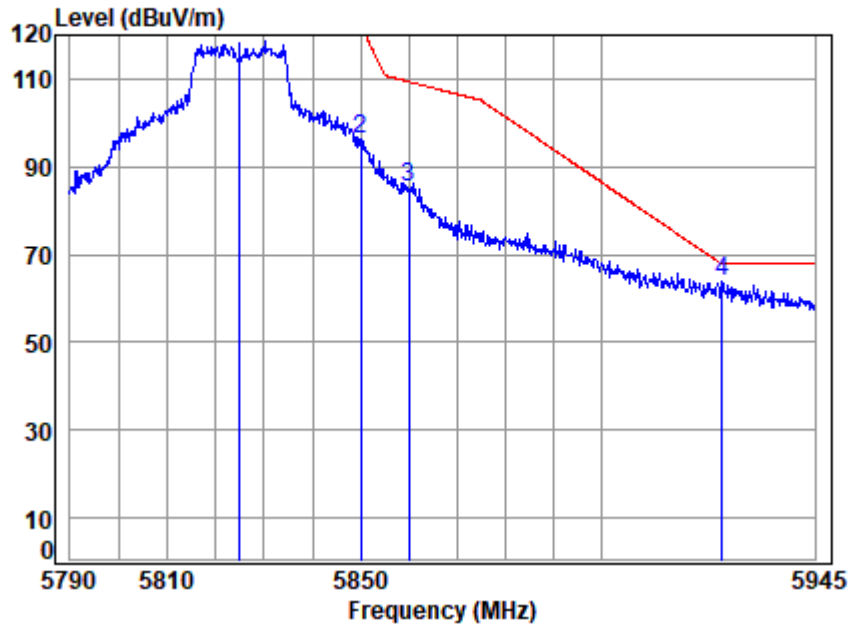
Mode : 5745 Band edge

Note : 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5649.00	7.93	34.41	35.06	57.07	64.35	68.20	-3.85 Peak
2	5715.00	7.97	34.27	35.03	80.03	87.24	109.40	-22.16 peak
3	5725.00	7.98	34.25	35.03	91.46	98.66	122.20	-23.54 peak
4	5745.00	7.99	34.21	35.02	111.25	118.43	-----	----- peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03697AT/03699AT

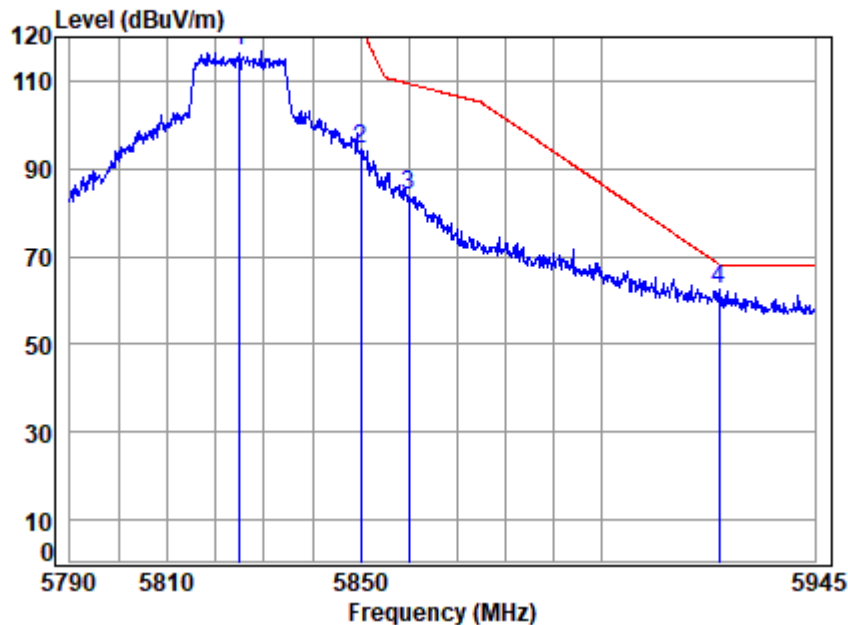
Mode : 5825 Band edge

Note : 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.00	8.05	34.35	34.98	111.08	118.50	-----	----- peak
2	5850.00	8.07	34.40	34.97	88.96	96.46	122.20	-25.74 peak
3	5860.00	8.07	34.44	34.96	77.57	85.12	109.40	-24.28 peak
4	5925.56	8.12	34.65	34.93	55.88	63.72	68.20	-4.48 Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

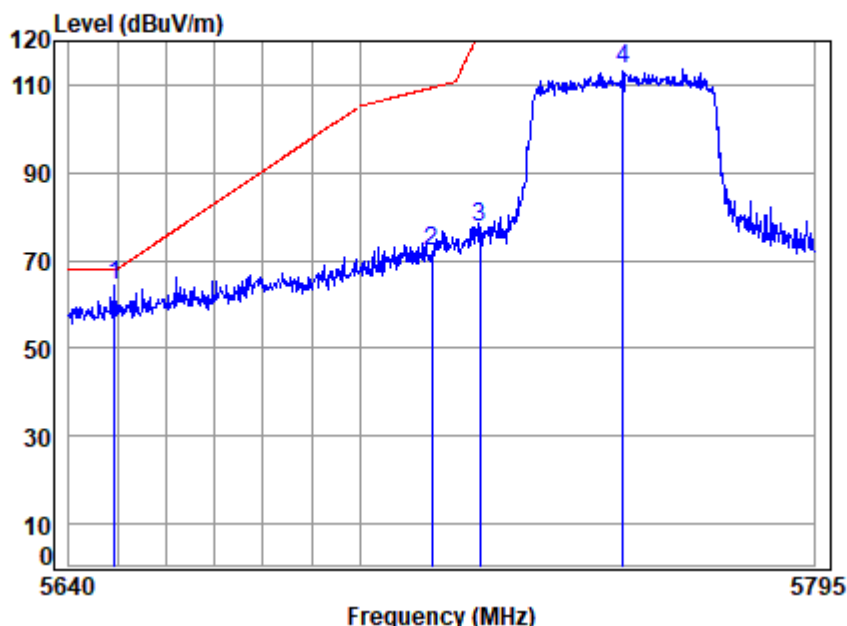


Site : chamber
Condition: 3m VERTICAL
Job No : 03697AT/03699AT
Mode : 5825 Band edge
Note : 5G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.00	8.05	34.35	34.98	109.36	116.78	-----	----- peak
2	5850.00	8.07	34.40	34.97	86.84	94.34	122.20	-27.86 peak
3	5860.00	8.07	34.44	34.96	76.50	84.05	109.40	-25.35 peak
4	5924.77	8.12	34.65	34.93	54.67	62.51	68.37	-5.86 Peak



Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03697AT/03699AT

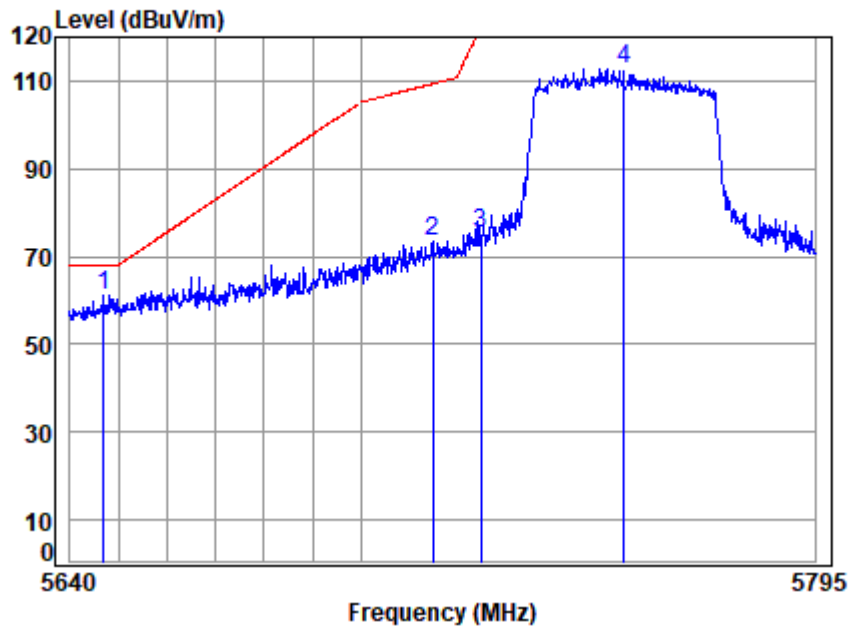
Mode : 5755 Band edge

Note : 5G WIFI 11AX40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5649.34	7.93	34.40	35.06	57.16	64.43	68.20	-3.77 Peak
2	5715.00	7.97	34.27	35.03	64.92	72.13	109.40	-37.27 peak
3	5725.00	7.98	34.25	35.03	70.37	77.57	122.20	-44.63 peak
4	5755.00	8.00	34.21	35.01	106.47	113.67	-----	----- peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03697AT/03699AT

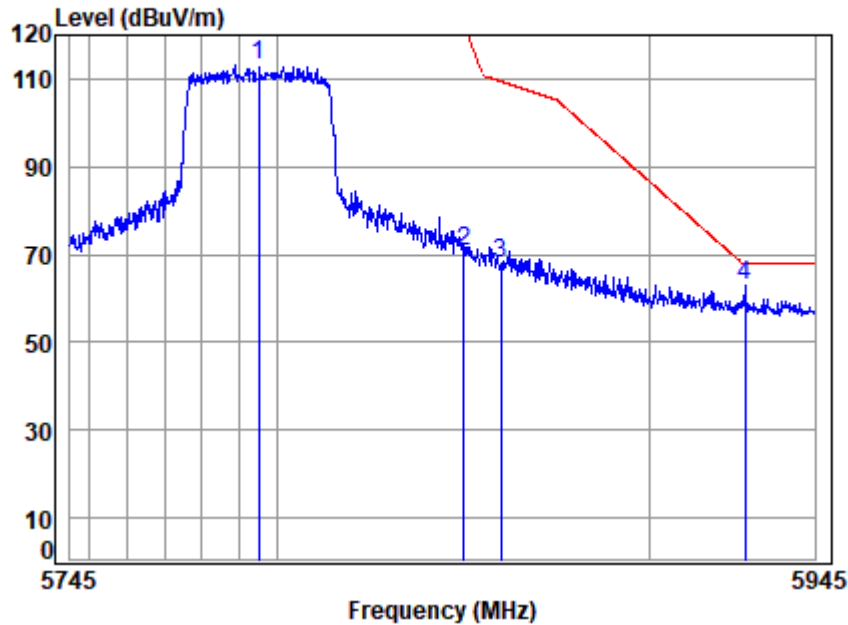
Mode : 5755 Band edge

Note : 5G WIFI 11AX40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5646.89	7.92	34.42	35.06	53.92	61.20	68.20	-7.00 Peak
2	5715.00	7.97	34.27	35.03	66.07	73.28	109.40	-36.12 peak
3	5725.00	7.98	34.25	35.03	68.19	75.39	122.20	-46.81 peak
4	5755.00	8.00	34.21	35.01	105.49	112.69	-----	----- peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03697AT/03699AT

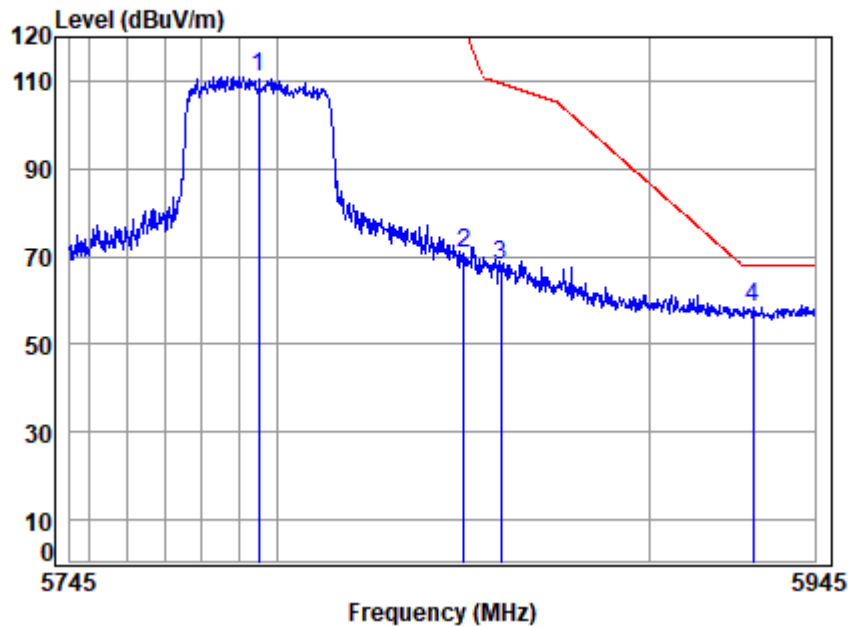
Mode : 5795 Band edge

Note : 5G WIFI 11AX40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.00	8.03	34.29	34.99	105.96	113.29	-----	----- peak
2	5850.00	8.07	34.40	34.97	63.29	70.79	122.20	-51.41 peak
3	5860.00	8.07	34.44	34.96	60.40	67.95	109.40	-41.45 peak
4	5925.91	8.12	34.65	34.93	55.24	63.08	68.20	-5.12 Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03697AT/03699AT
Mode : 5795 Band edge
Note : 5G WIFI 11AX40

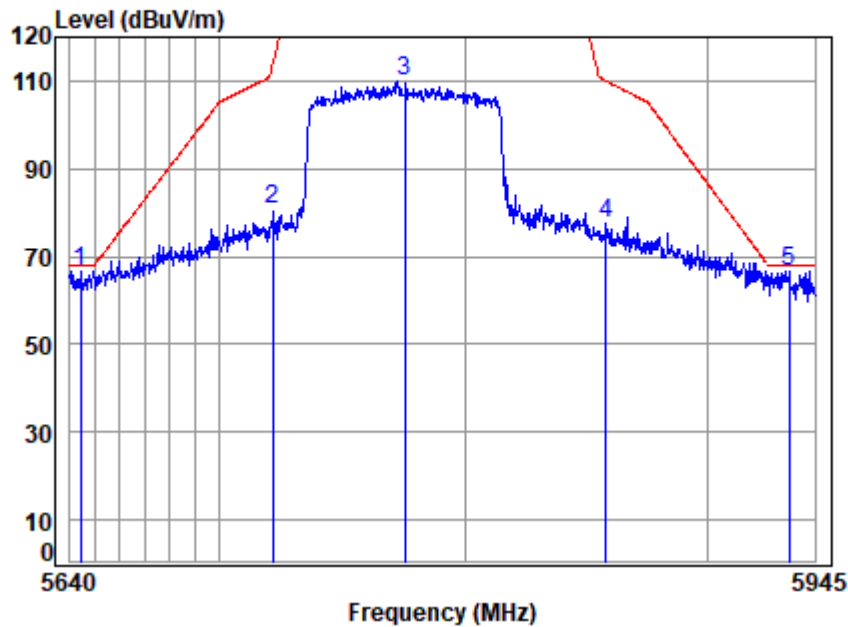
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.00	8.03	34.29	34.99	103.55	110.88	-----	----- peak
2	5850.00	8.07	34.40	34.97	63.23	70.73	122.20	-51.47 peak
3	5860.00	8.07	34.44	34.96	60.36	67.91	109.40	-41.49 peak
4	5928.14	8.12	34.66	34.93	50.44	58.29	68.20	-9.91 Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03697AT/03699AT

Mode : 5775 Band edge

Note : 5G WIFI 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5644.16	7.92	34.43	35.06	59.36	66.65	68.20	-1.55 Peak
2	5721.38	7.98	34.26	35.03	73.37	80.58	113.94	-33.36 peak
3	5775.00	8.01	34.25	35.00	102.93	110.19	-----	----- peak
4	5857.98	8.07	34.43	34.96	69.98	77.52	109.97	-32.45 peak
5	5934.05	8.13	34.67	34.93	58.65	66.52	68.20	-1.68 Peak



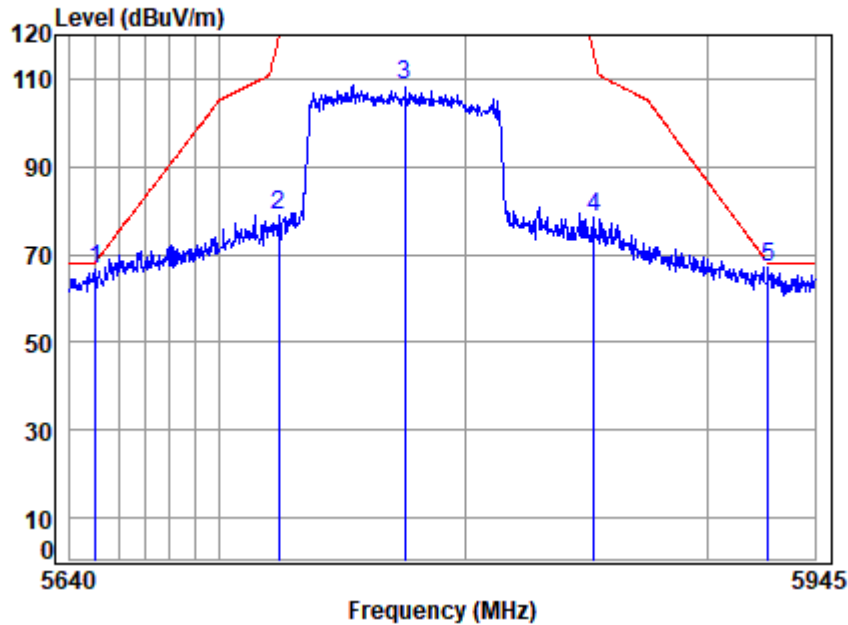
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03697AT/03699AT
Mode : 5775 Band edge
Note : 5G WIFI 11AX80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5650.41	7.93	34.40	35.06	59.33	66.60	68.50	-1.90 Peak
2	5723.79	7.98	34.25	35.03	71.62	78.82	119.44	-40.62 peak
3	5775.00	8.01	34.25	35.00	101.44	108.70	-----	----- peak
4	5852.73	8.07	34.41	34.97	70.96	78.47	115.97	-37.50 peak
5	5925.31	8.12	34.65	34.93	59.18	67.02	68.20	-1.18 Peak



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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 22.8 °C Humidity: 45.3 % RH Atmospheric Pressure: 1000 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40);data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT20);data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW20); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW40); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW80);. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT20);data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT80);; data rate @ HE0 is the worst case of IEEE 802.11ax(HEW20); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW40); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT20);data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW20); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW40); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW80);. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE



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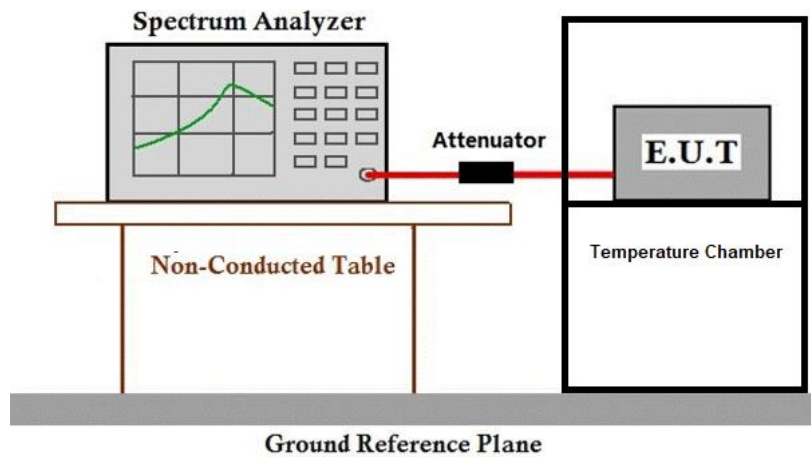
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		802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
--	--	---

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Transmitter Power Control

Test Requirement 47 CFR Part 15, Subpart E 15.407 (h)(1)

Test Method: KDB 789033 D02 II E

Limit:

Able to lower EIRP below 24dBm when Max_EIRP ≥ 500 mW (27 dBm).

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 22.8 °C

Humidity: 45.1 % RH

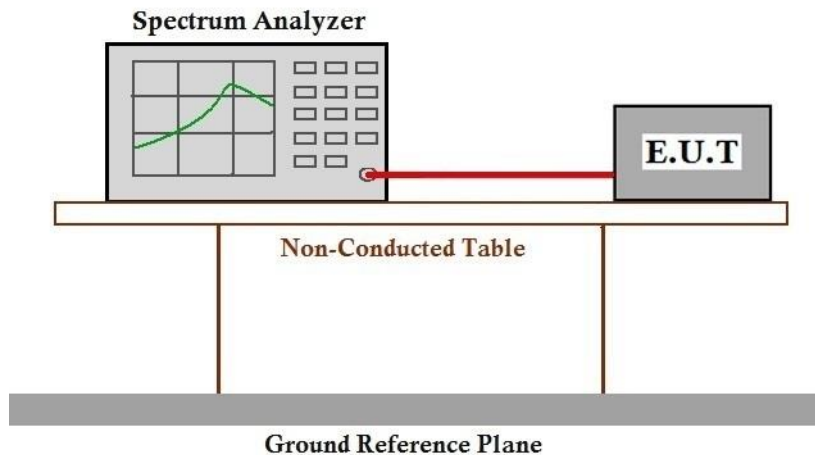
Atmospheric Pressure: 1000 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT20);data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT80);; data rate @ HE0 is the worst case of IEEE 802.11ax(HEW20); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW40); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT20);data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(VHT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW20); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW40); data rate @ HE0 is the worst case of IEEE 802.11ax(HEW80),. Only the data of worst case is recorded in the report.



7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2311003697AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2311003697AT



10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.377	1.554	88.61	0.53	6.98
		5200	/	/	1.377	1.537	89.59	0.48	5.97
		5240	/	/	1.378	1.538	89.60	0.48	5.61
		5260	/	/	1.377	1.546	89.07	0.50	6.53
		5300	/	/	1.377	1.537	89.59	0.48	6.04
		5320	/	/	1.376	1.527	90.11	0.45	5.05
		5500	/	/	1.377	1.555	88.55	0.53	4.30
		5580	/	/	1.378	1.528	90.18	0.45	5.34
		5700	/	/	1.379	1.555	88.68	0.52	7.02
		5745	/	/	1.378	1.555	88.62	0.52	6.61
		5785	/	/	1.377	1.545	89.13	0.50	4.96
		5825	/	/	1.379	1.547	89.14	0.50	6.10
802.11n (HT20)	MIMO	5180	/	/	1.977	2.128	92.90	0.32	3.70
		5200	/	/	5.394	5.562	96.98	0.13	1.85
		5240	/	/	5.394	5.544	97.29	0.12	1.53
		5260	/	/	5.392	5.562	96.94	0.13	1.78
		5300	/	/	5.394	5.562	96.98	0.13	1.85
		5320	/	/	5.394	5.570	96.84	0.14	1.92
		5500	/	/	5.394	5.562	96.98	0.13	1.88
		5580	/	/	5.394	5.570	96.84	0.14	2.02
		5700	/	/	5.392	5.552	97.12	0.13	1.60
		5745	/	/	5.392	5.562	96.94	0.13	1.78
		5785	/	/	5.394	5.570	96.84	0.14	1.99
		5825	/	/	5.408	5.554	97.37	0.12	1.71
802.11n (HT40)	MIMO	5190	/	/	4.857	5.035	96.46	0.16	2.22
		5230	/	/	4.857	5.033	96.50	0.15	2.23
		5270	/	/	4.858	5.034	96.50	0.15	2.22



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		5310	/	/	4.858	5.035	96.48	0.16	2.22
		5510	/	/	4.859	5.035	96.50	0.15	2.12
		5550	/	/	4.857	5.026	96.64	0.15	2.09
		5670	/	/	4.857	5.033	96.50	0.15	2.23
		5755	/	/	4.857	5.026	96.64	0.15	2.05
		5795	/	/	4.858	5.025	96.68	0.15	2.05
802.11ac (VHT20)	MIMO	5180	/	/	5.398	5.576	96.81	0.14	2.02
		5200	/	/	5.398	5.574	96.84	0.14	1.99
		5240	/	/	5.396	5.556	97.12	0.13	1.71
		5260	/	/	5.399	5.558	97.14	0.13	1.66
		5300	/	/	5.398	5.566	96.98	0.13	1.74
		5320	/	/	5.398	5.566	96.98	0.13	1.88
		5500	/	/	5.412	5.576	97.06	0.13	2.03
		5580	/	/	5.398	5.574	96.84	0.14	1.99
		5700	/	/	5.400	5.576	96.84	0.14	1.99
		5745	/	/	5.412	5.702	94.91	0.23	4.17
		5785	/	/	5.398	5.548	97.30	0.12	1.42
		5825	/	/	5.398	5.574	96.84	0.14	2.02
802.11ac (VHT40)	MIMO	5190	/	/	4.862	5.038	96.51	0.15	2.19
		5230	/	/	4.860	5.037	96.49	0.16	2.22
		5270	/	/	4.862	5.039	96.49	0.16	2.22
		5310	/	/	4.860	5.038	96.47	0.16	2.11
		5510	/	/	4.860	5.036	96.51	0.15	2.12
		5550	/	/	4.862	5.037	96.53	0.15	2.19
		5670	/	/	4.861	5.002	97.18	0.12	1.53
		5755	/	/	4.862	5.029	96.68	0.15	2.05
802.11ac (VHT80)	MIMO	5795	/	/	4.862	5.002	97.20	0.12	1.53
		5210	/	/	2.266	2.443	92.75	0.33	3.93
		5290	/	/	2.266	2.443	92.75	0.33	4.46
		5530	/	/	2.265	2.442	92.75	0.33	4.33
		5610	/	/	2.265	2.424	93.44	0.29	3.59
802.11ax (HEW20)	MIMO	5775	/	/	2.266	2.442	92.79	0.32	4.53
		5180	RU242	Left	5.418	5.588	96.96	0.13	1.84
		5200	RU242	Left	5.418	5.578	97.13	0.13	1.45
		5240	RU242	Left	5.432	5.594	97.10	0.13	2.02
		5260	RU242	Left	5.420	5.588	96.99	0.13	1.84
		5300	RU242	Left	5.428	5.596	97.00	0.13	2.02
		5320	RU242	Left	5.420	5.562	97.45	0.11	1.31
		5500	RU242	Left	5.418	5.588	96.96	0.13	1.84



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		5700	RU242	Left	5.419	5.577	97.17	0.12	1.59
		5745	RU242	Left	5.420	5.588	96.99	0.13	1.88
		5785	RU242	Left	5.434	5.570	97.56	0.11	1.53
		5825	RU242	Left	5.420	5.588	96.99	0.13	1.84
802.11ax (HEW40)	MIMO	5190	RU484	Left	3.842	4.019	95.60	0.20	2.67
		5230	RU484	Left	3.841	4.018	95.59	0.20	2.78
		5270	RU484	Left	3.841	4.001	96.00	0.18	2.34
		5310	RU484	Left	3.842	3.937	97.59	0.11	0.81
		5510	RU484	Left	3.841	4.017	95.62	0.19	2.74
		5550	RU484	Left	3.842	4.010	95.81	0.19	2.55
		5670	RU484	Left	3.841	4.017	95.62	0.19	2.74
		5755	RU484	Left	3.841	4.000	96.03	0.18	2.36
		5795	RU484	Left	3.841	4.018	95.59	0.20	2.78
802.11ax (HEW80)	MIMO	5210	RU996	Left	2.202	2.352	93.62	0.29	3.33
		5290	RU996	Left	2.211	2.378	92.98	0.32	4.66
		5530	RU996	Left	2.201	2.369	92.91	0.32	4.27
		5610	RU996	Left	2.201	2.377	92.60	0.33	4.65
		5775	RU996	Left	2.201	2.368	92.95	0.32	4.34



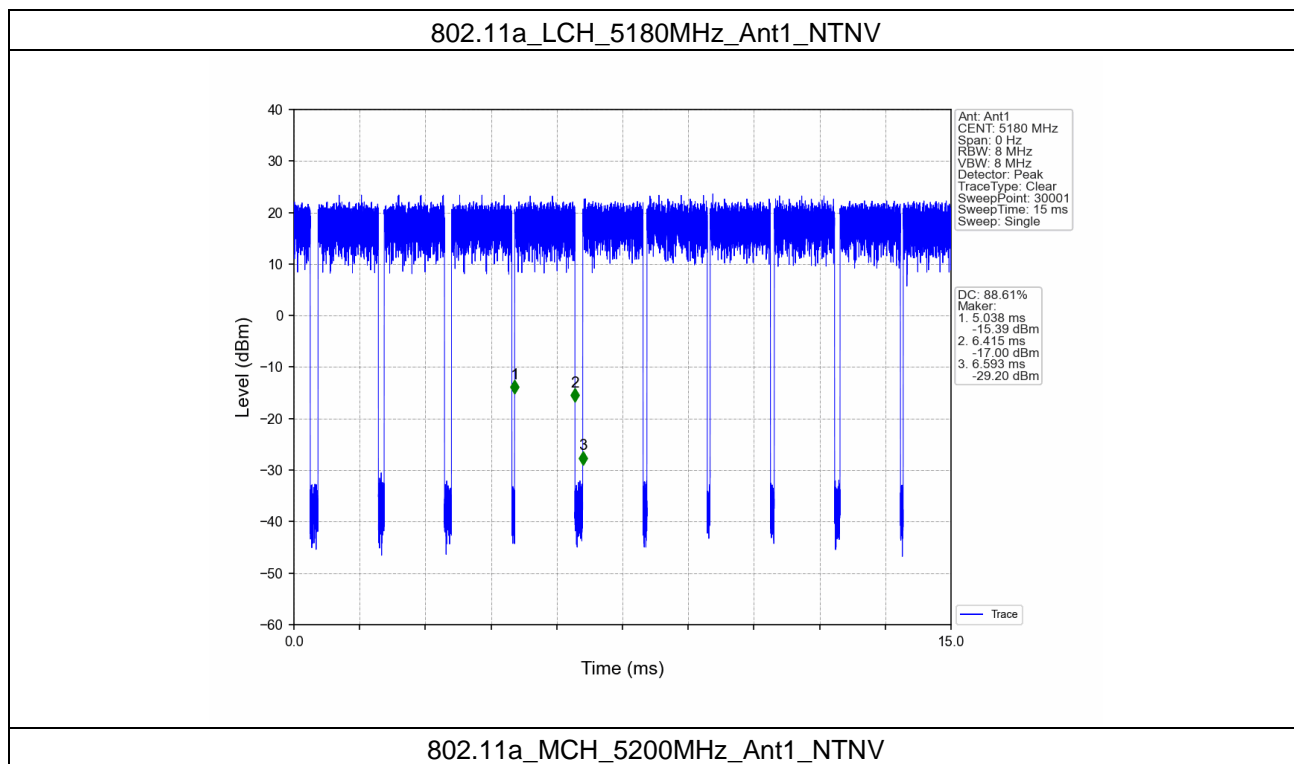
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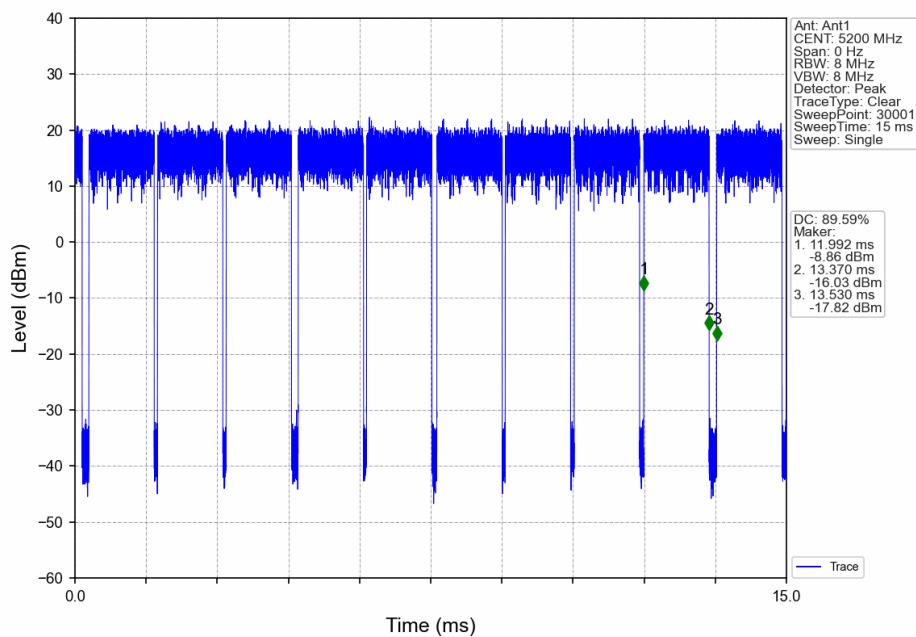
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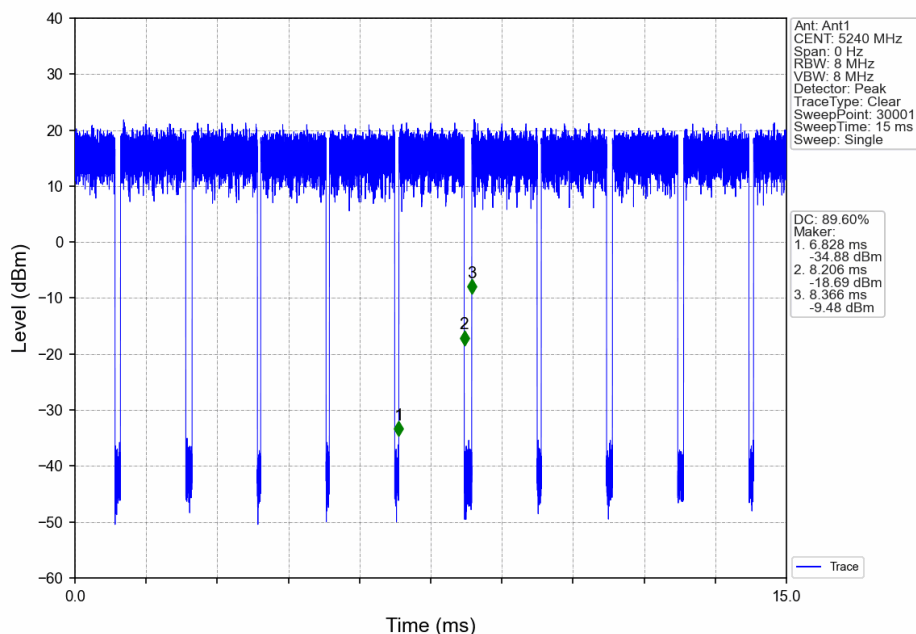
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1.1.2 Test Graph

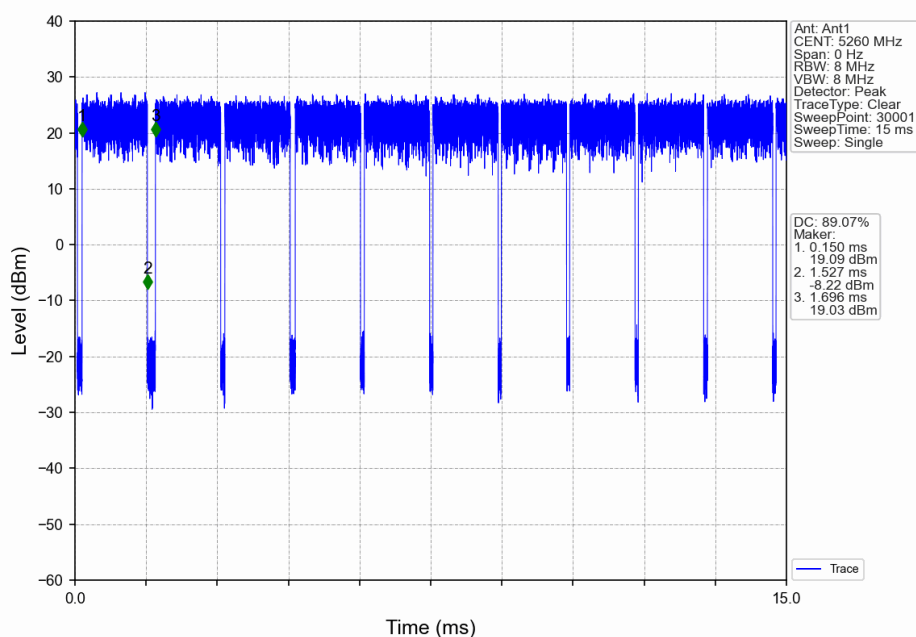




802.11a_HCH_5240MHz_Ant1_NTNV



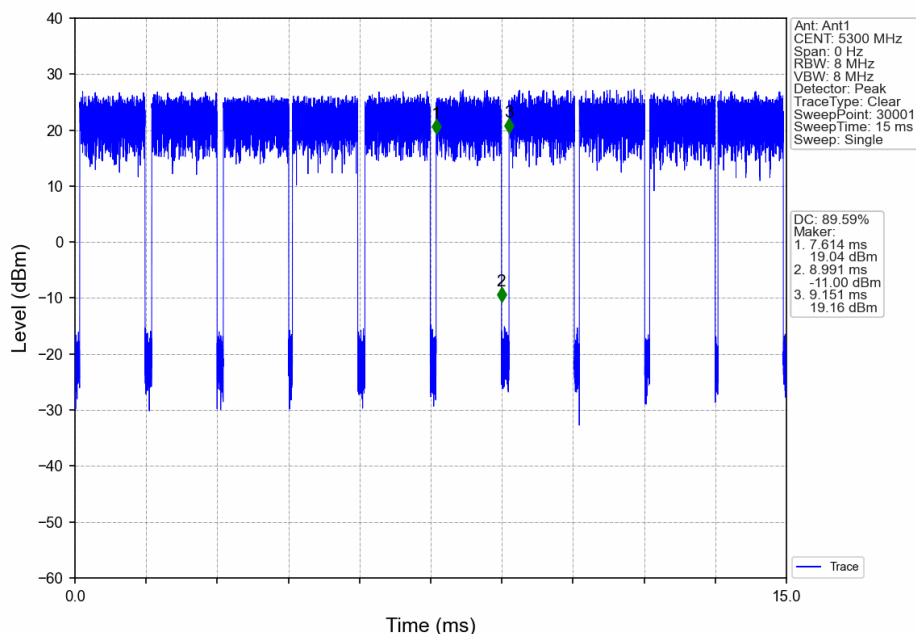
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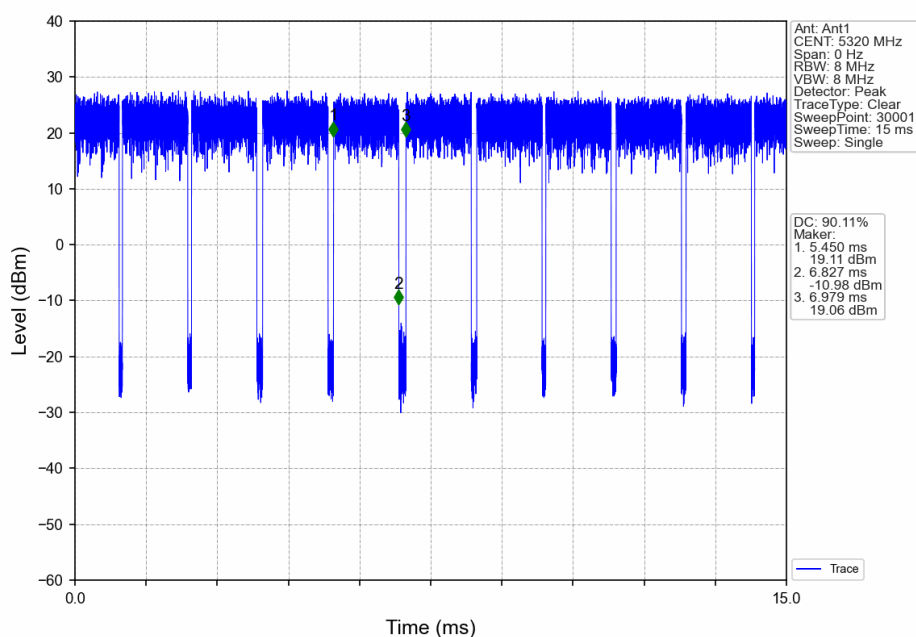
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802.11a_MCH_5300MHz_Ant1_NTNV



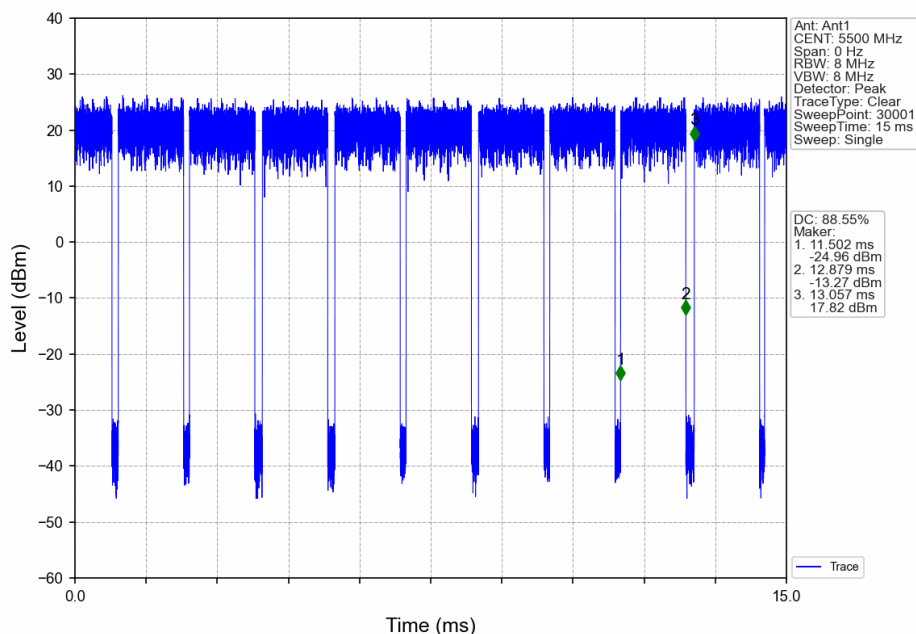
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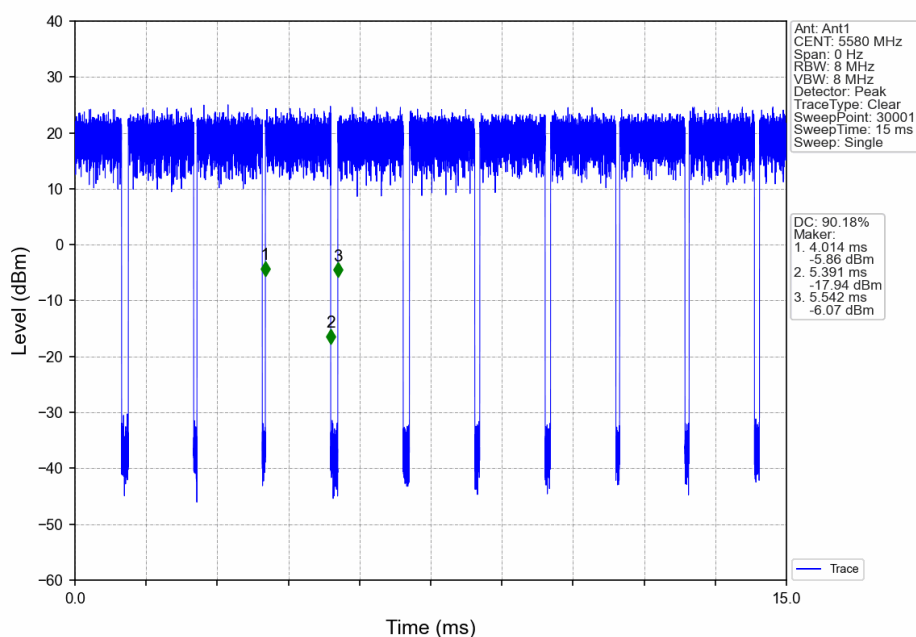
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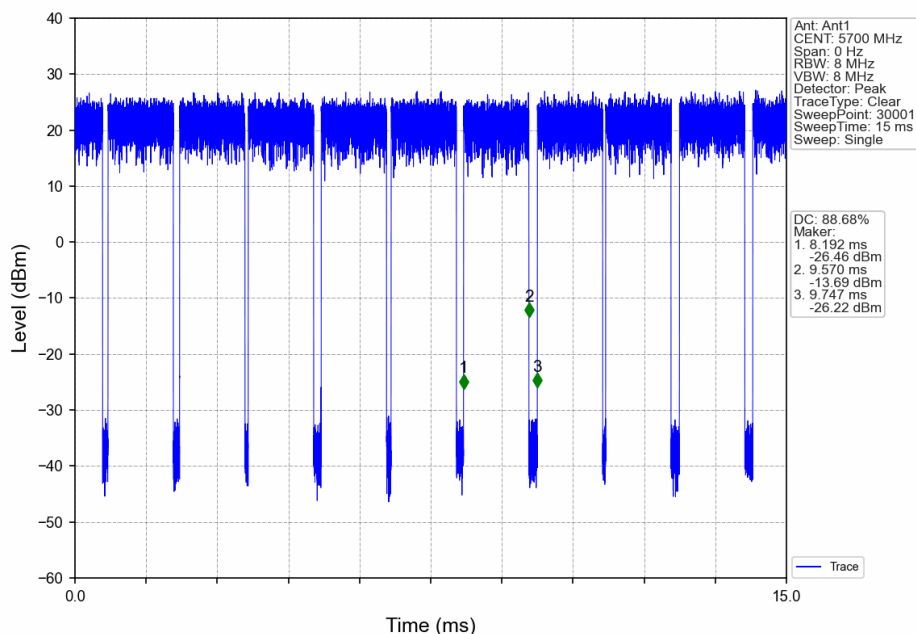
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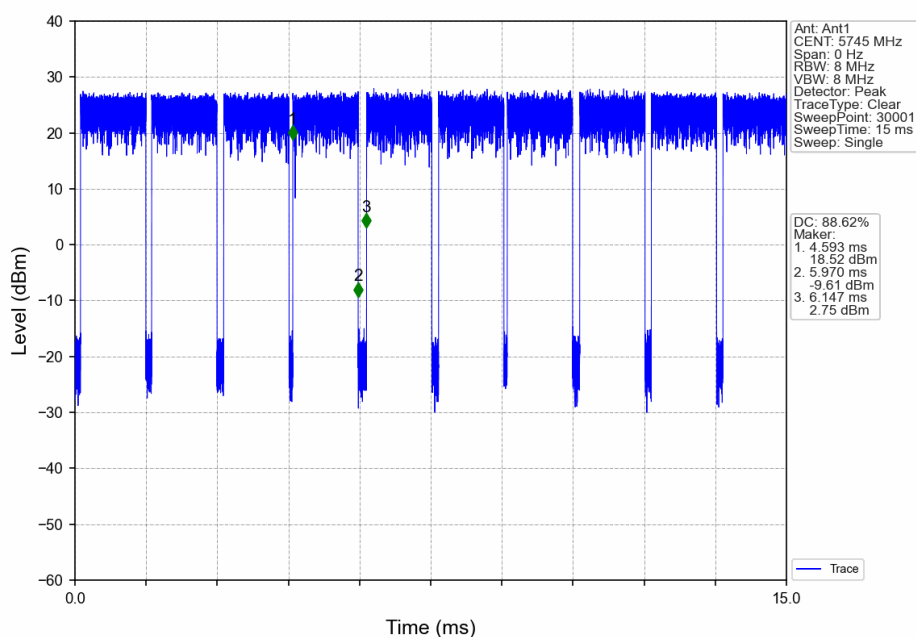
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



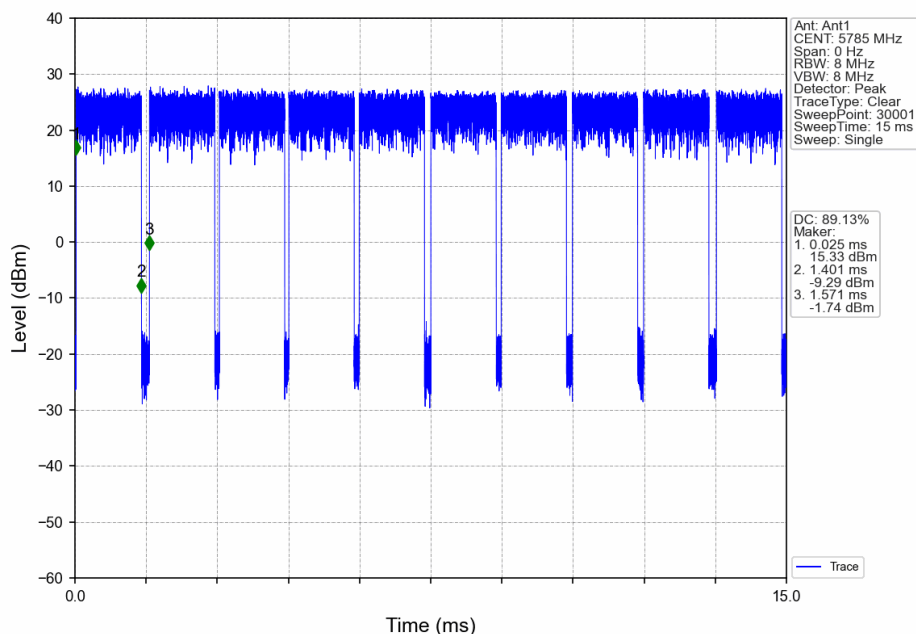
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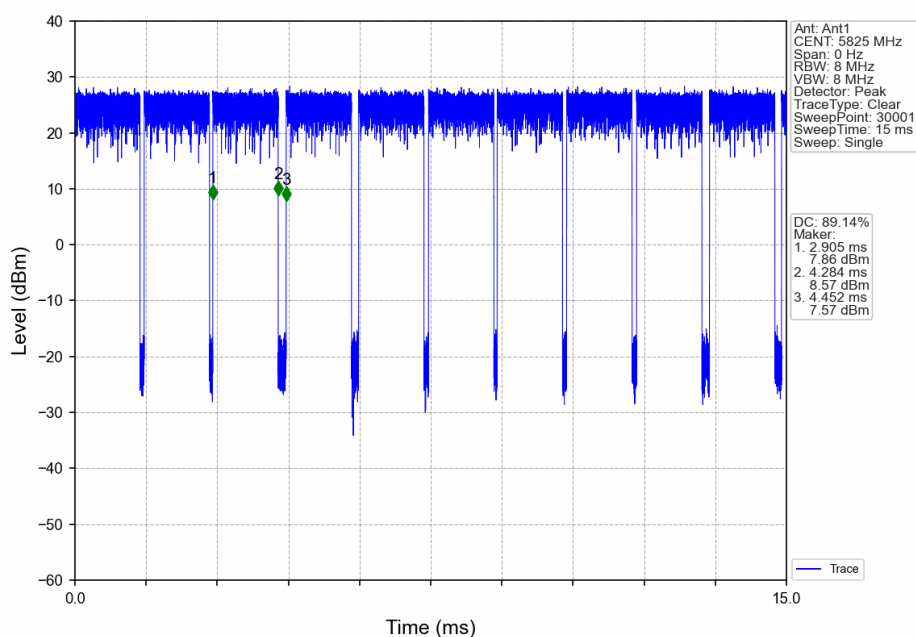
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802.11a_MCH_5785MHz_Ant1_NTNV



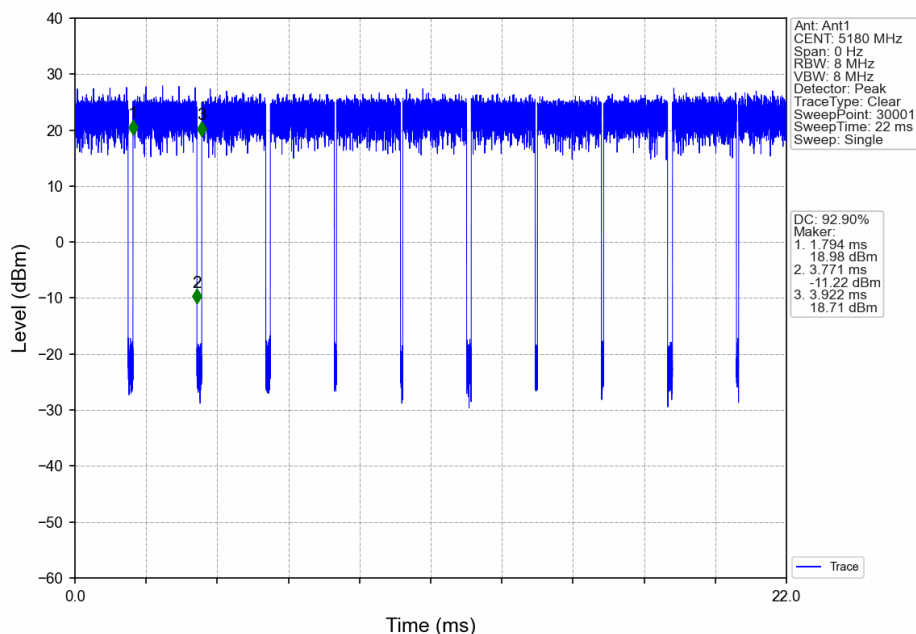
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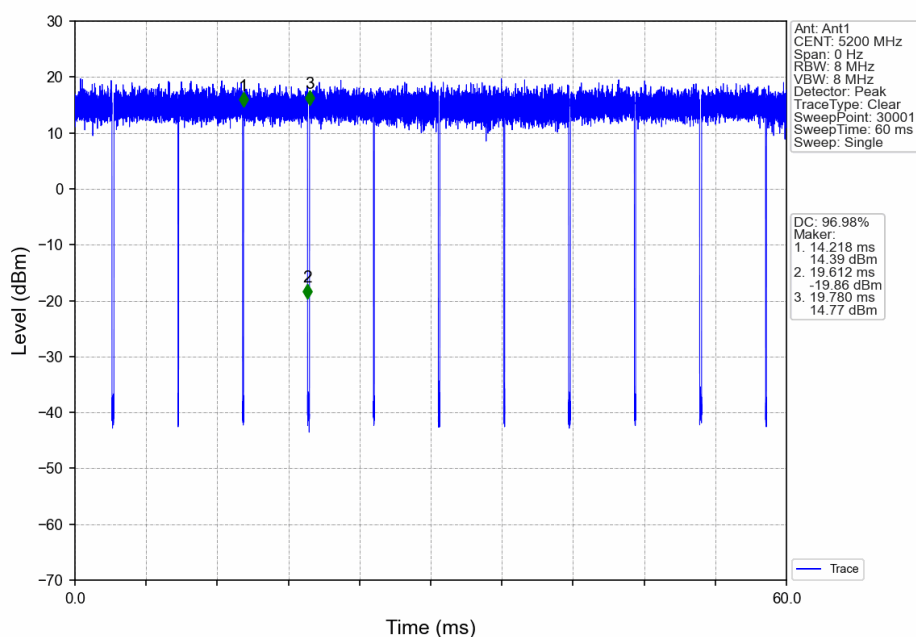
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



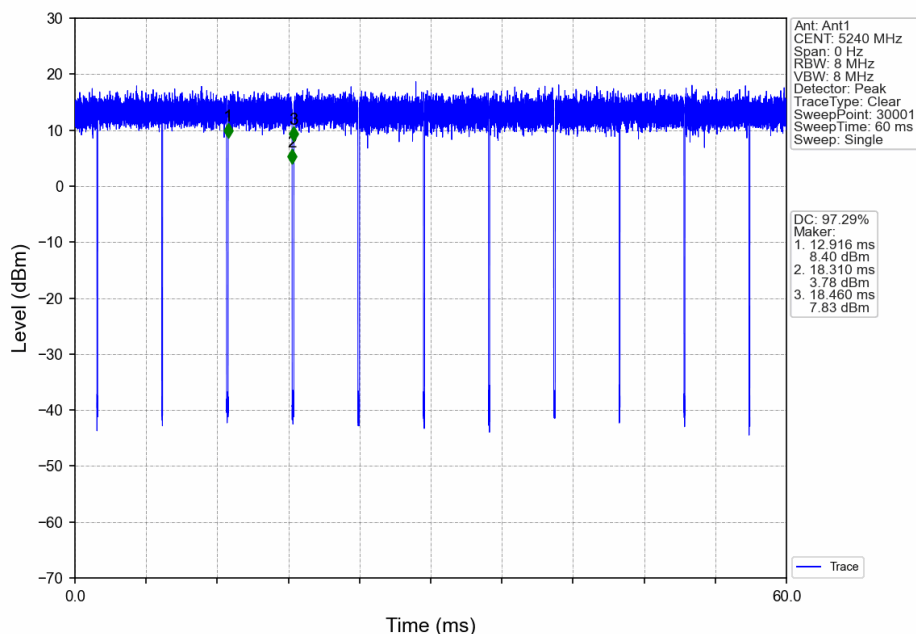
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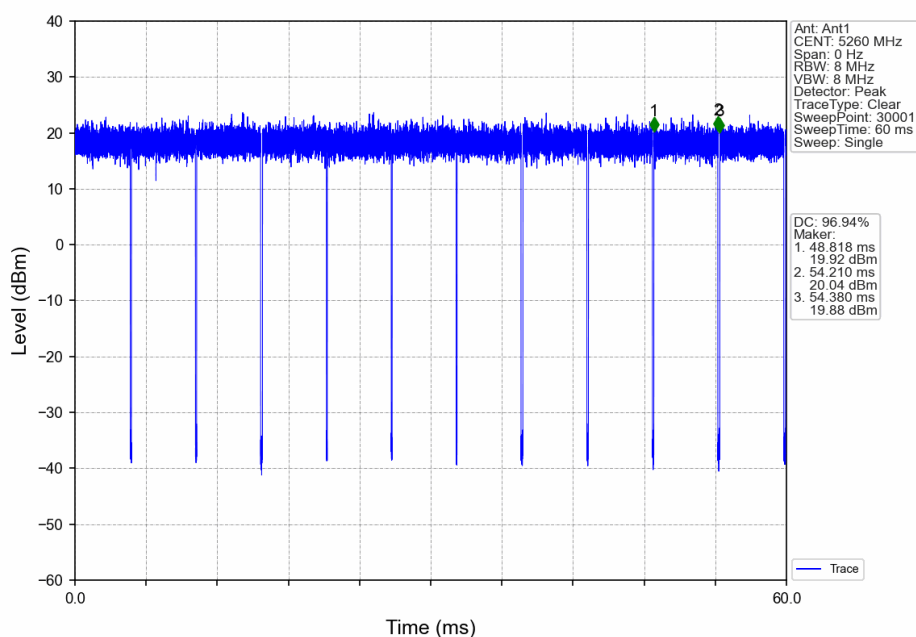
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



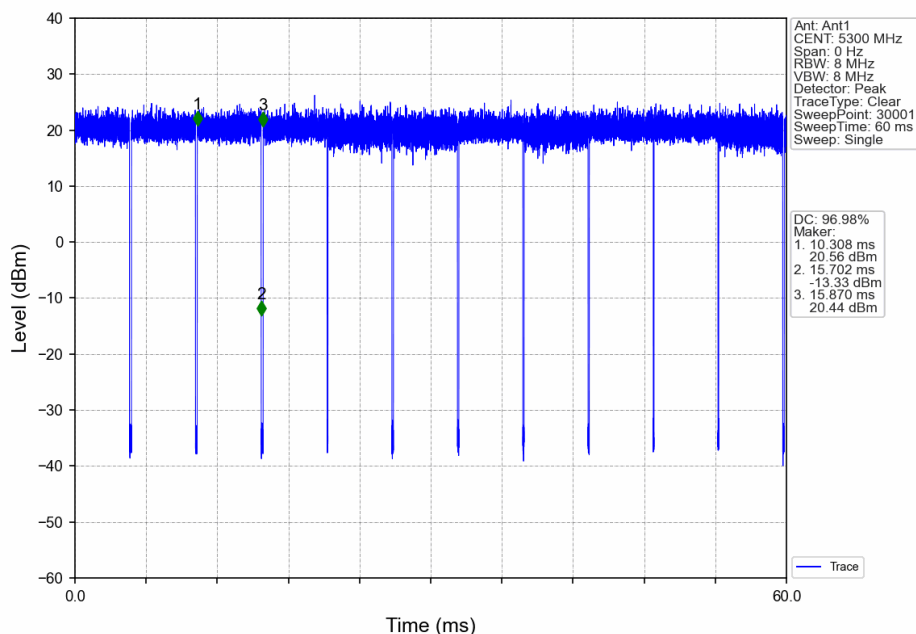
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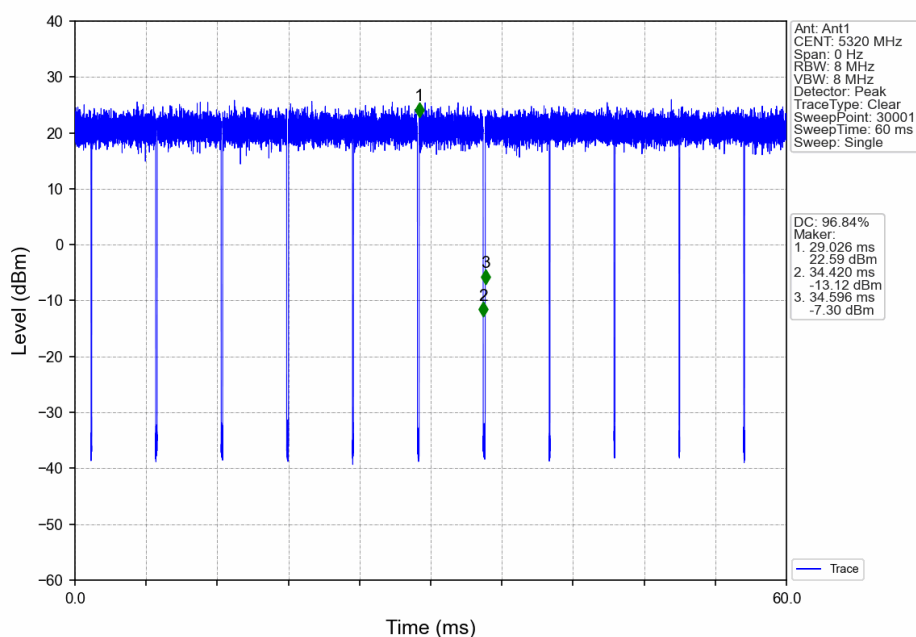
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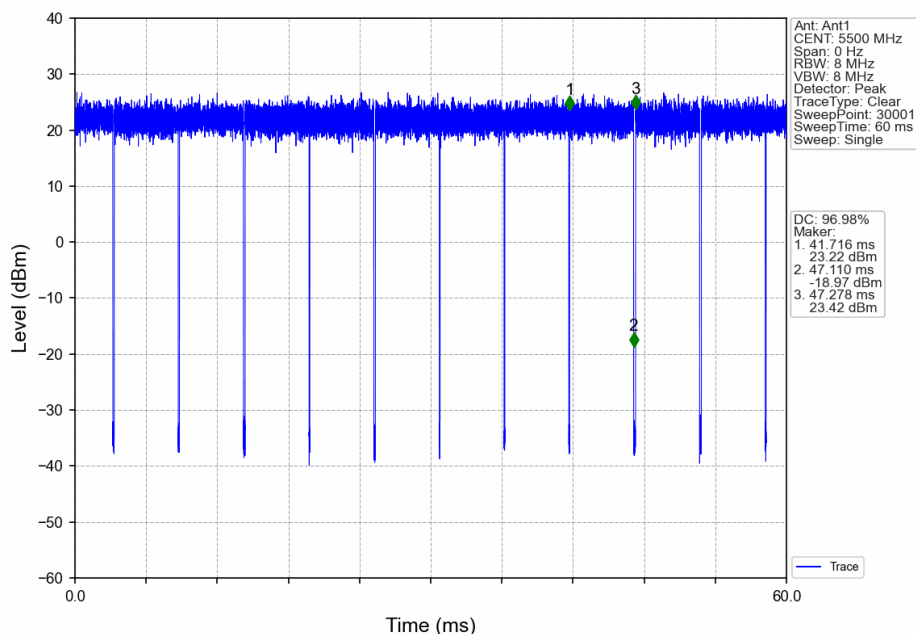
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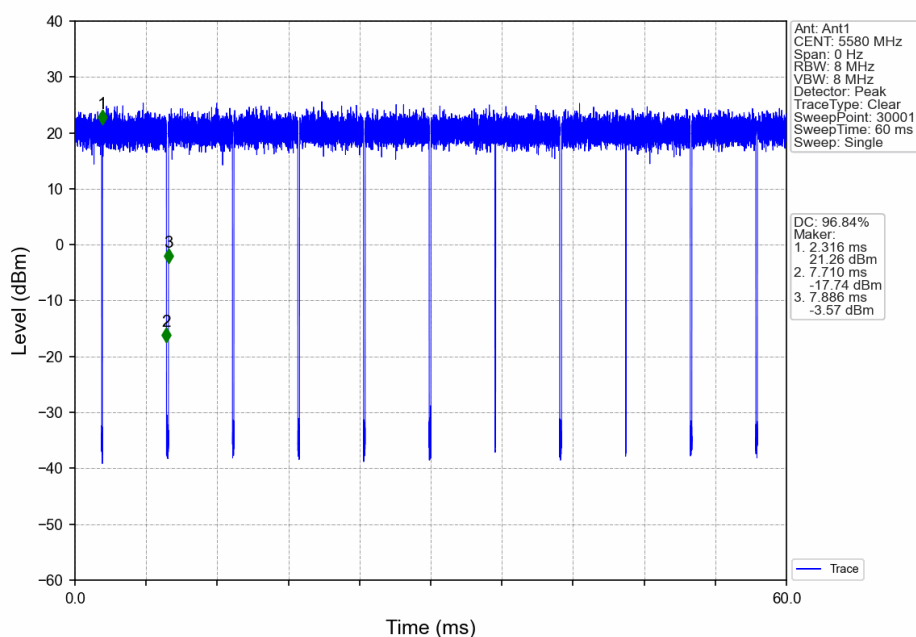
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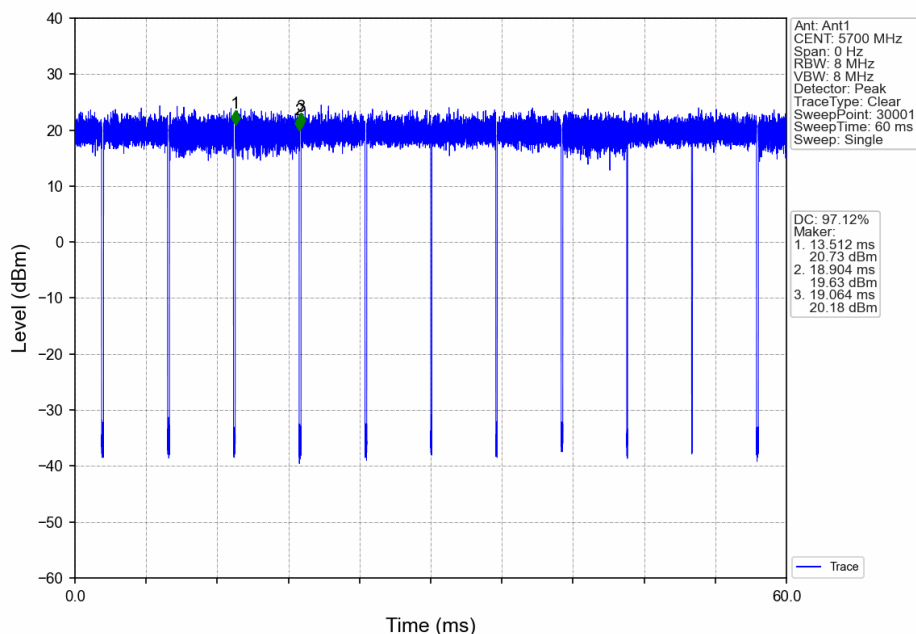
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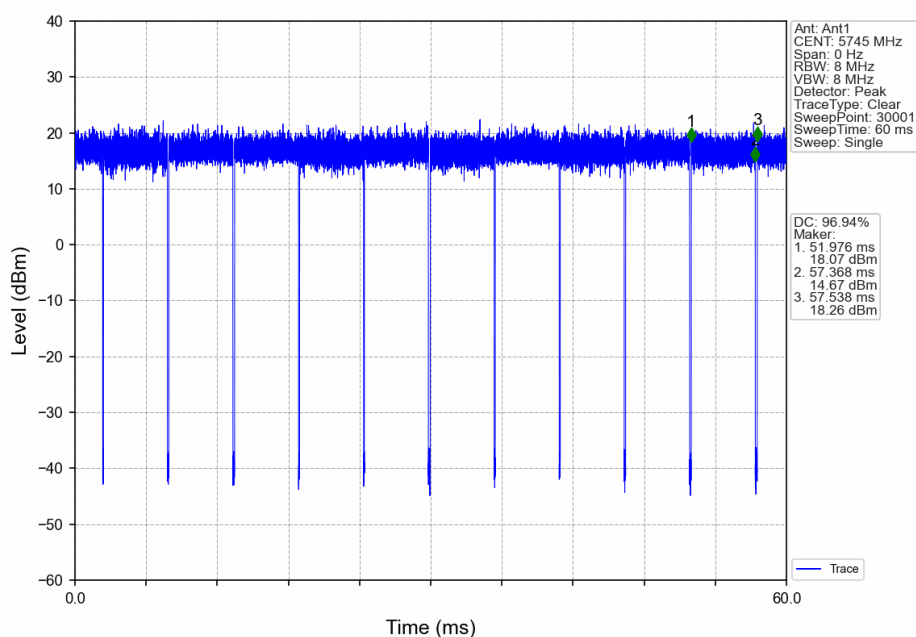
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



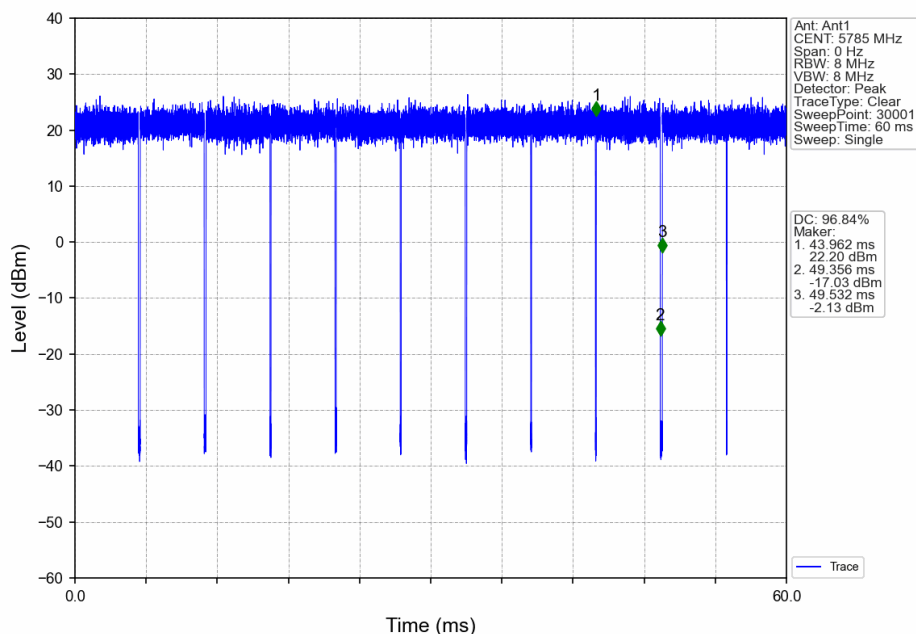
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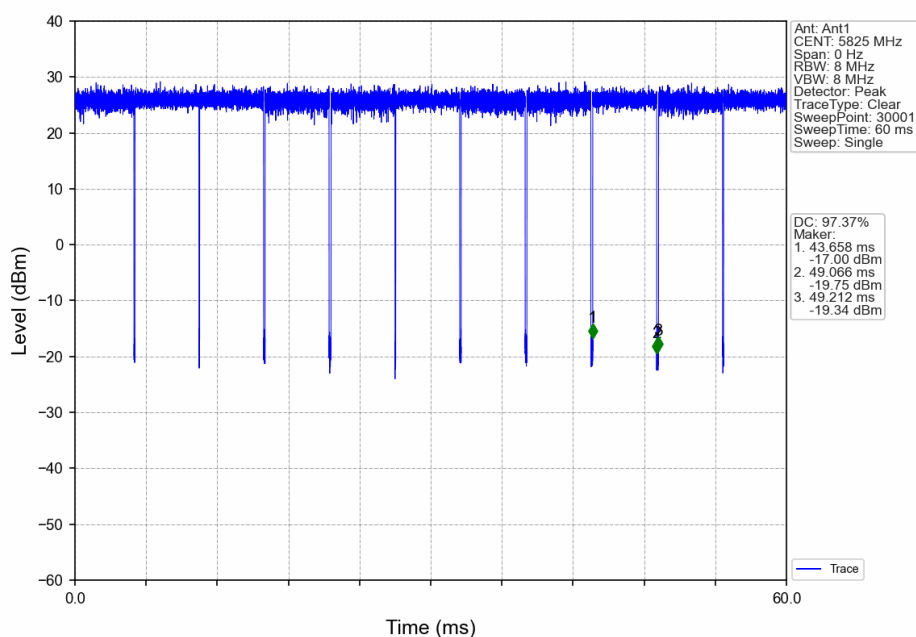
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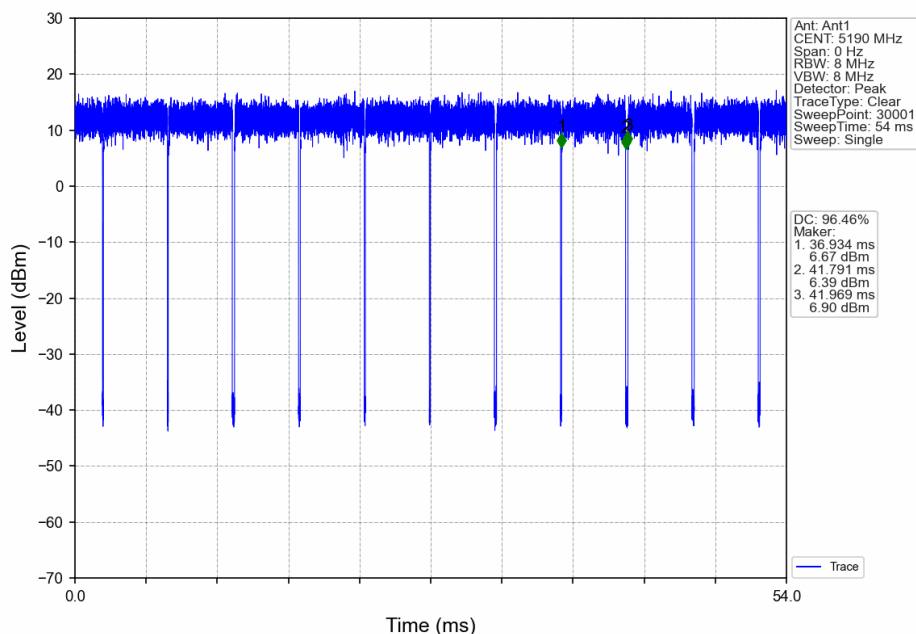
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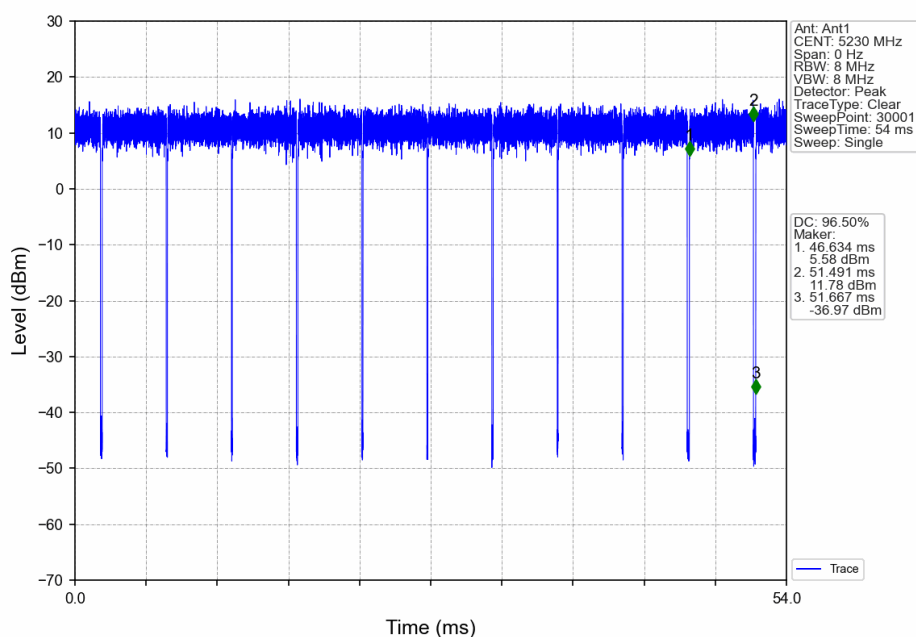
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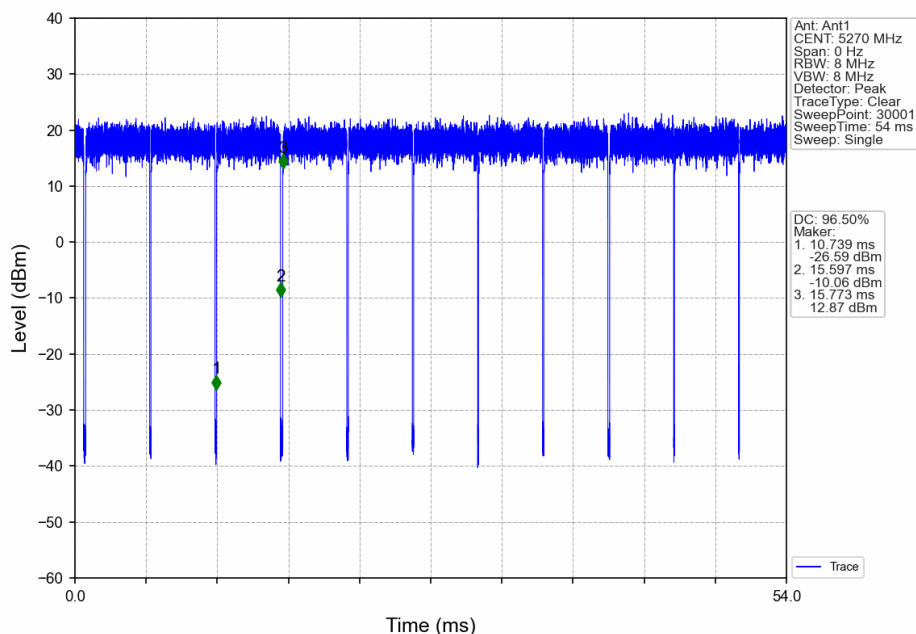
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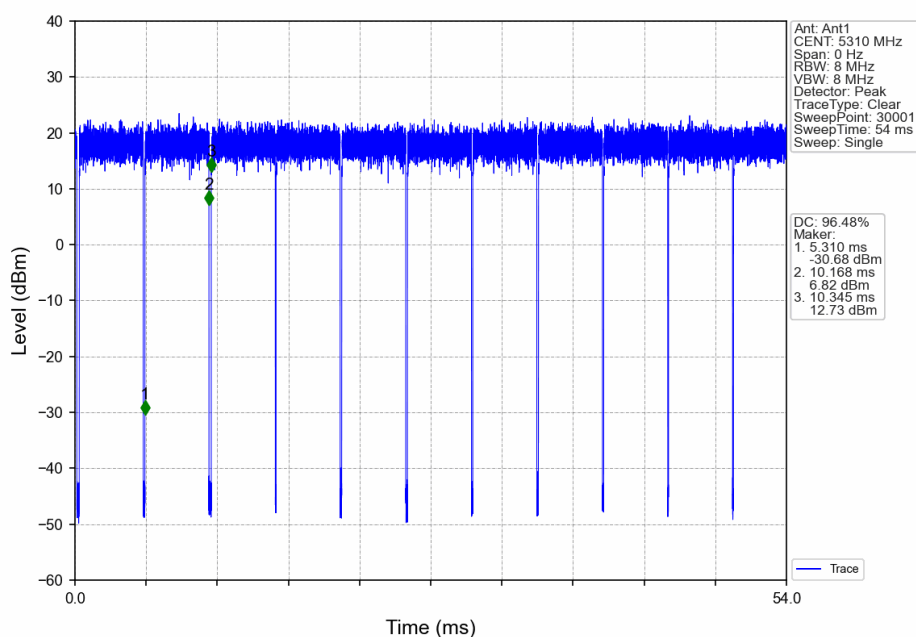
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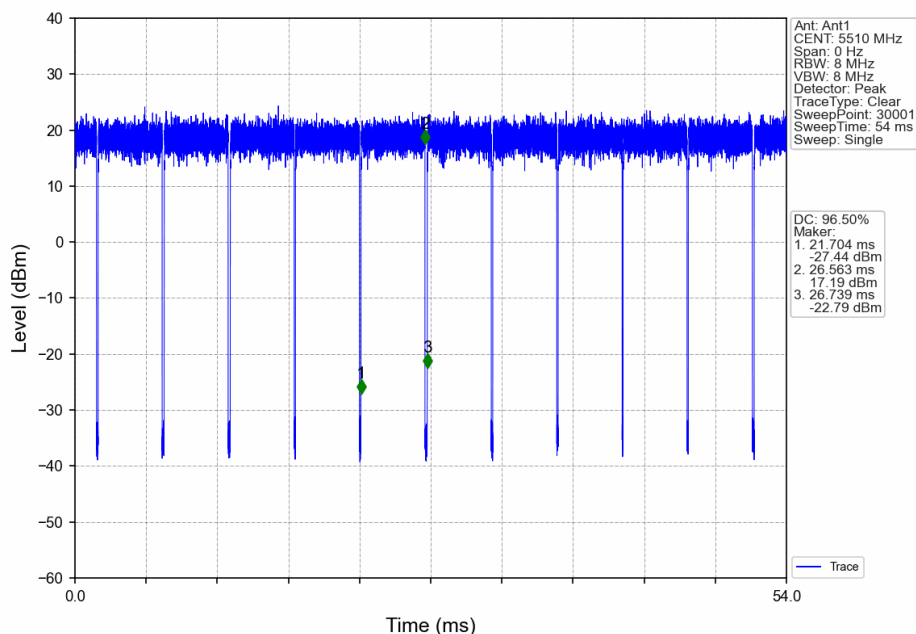
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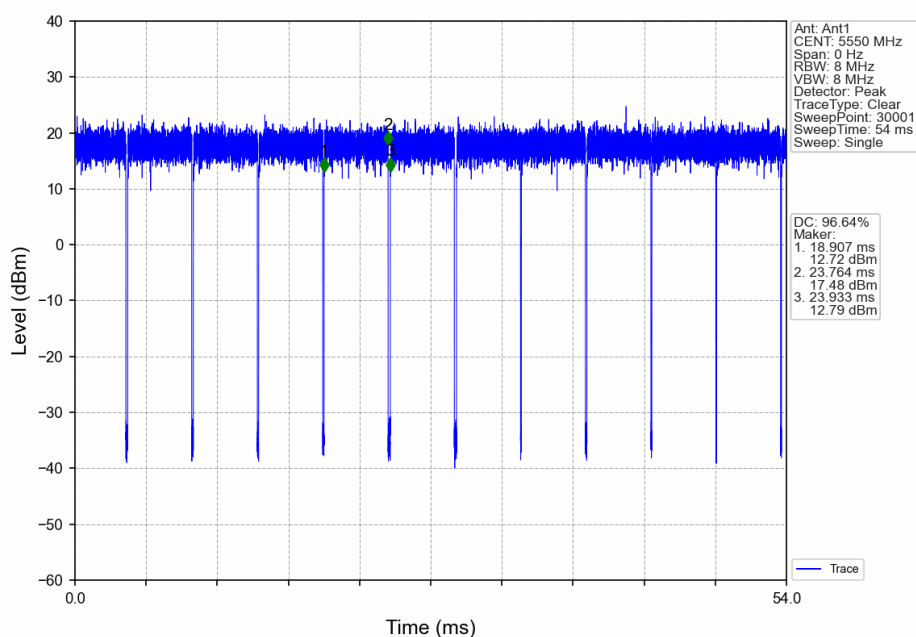
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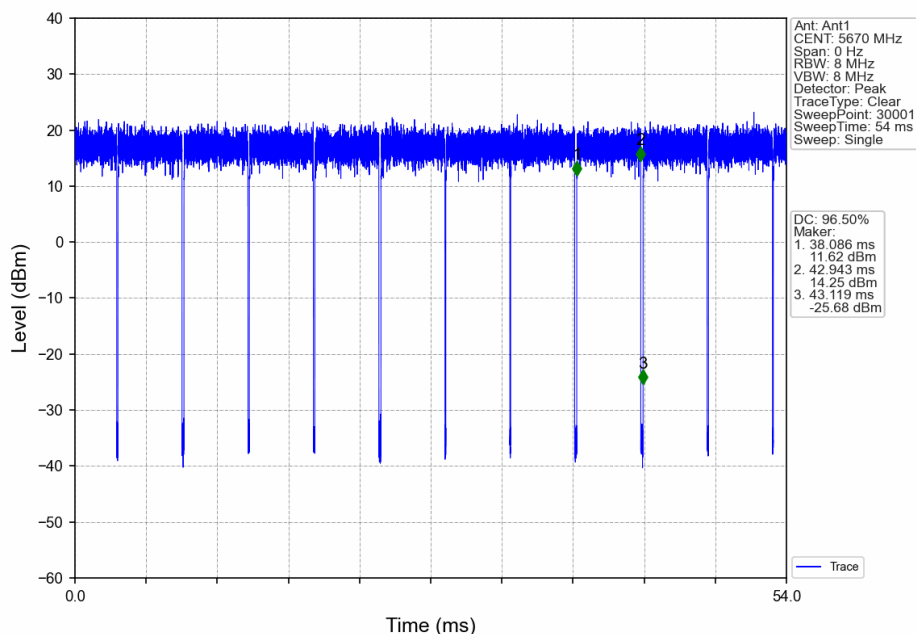
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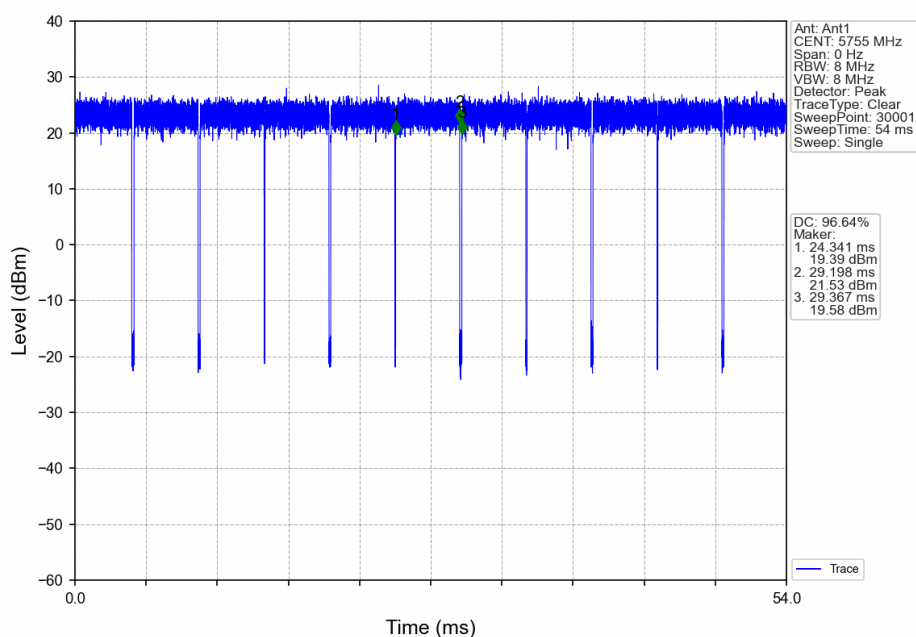
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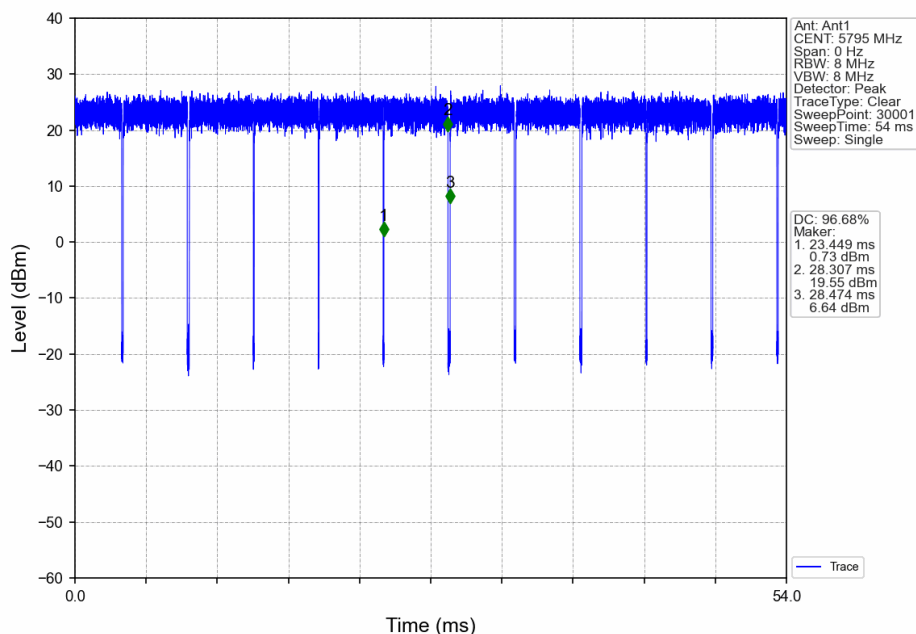
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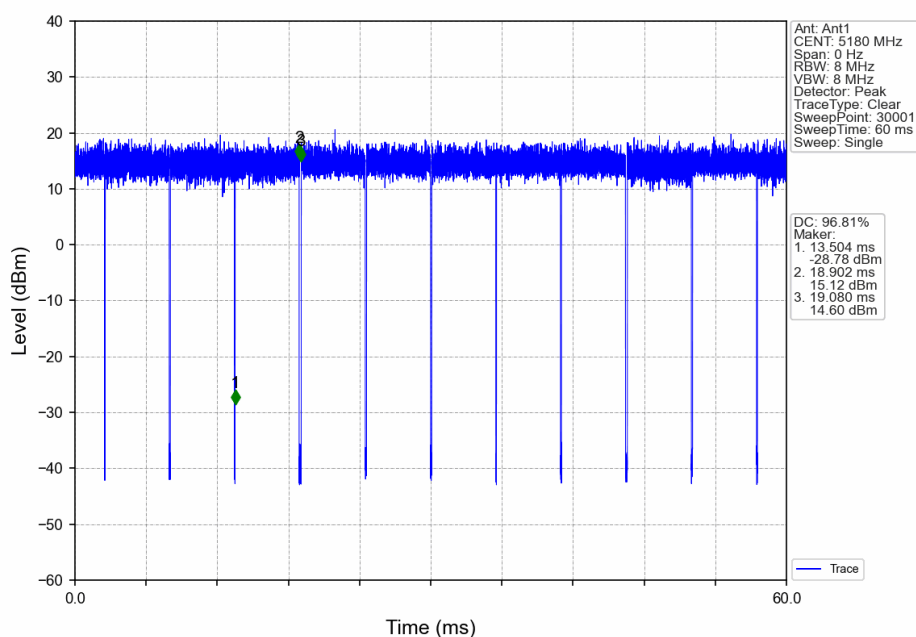
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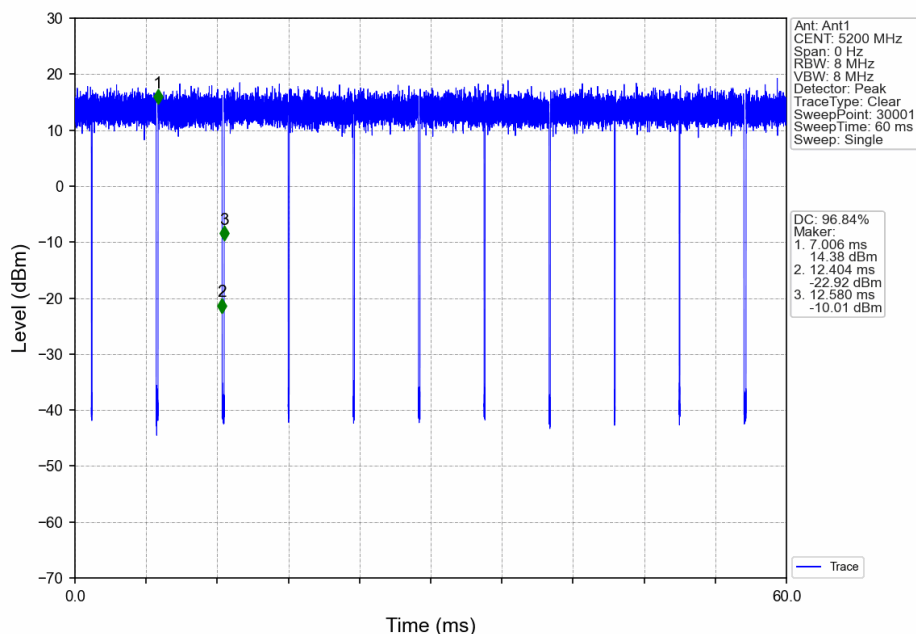
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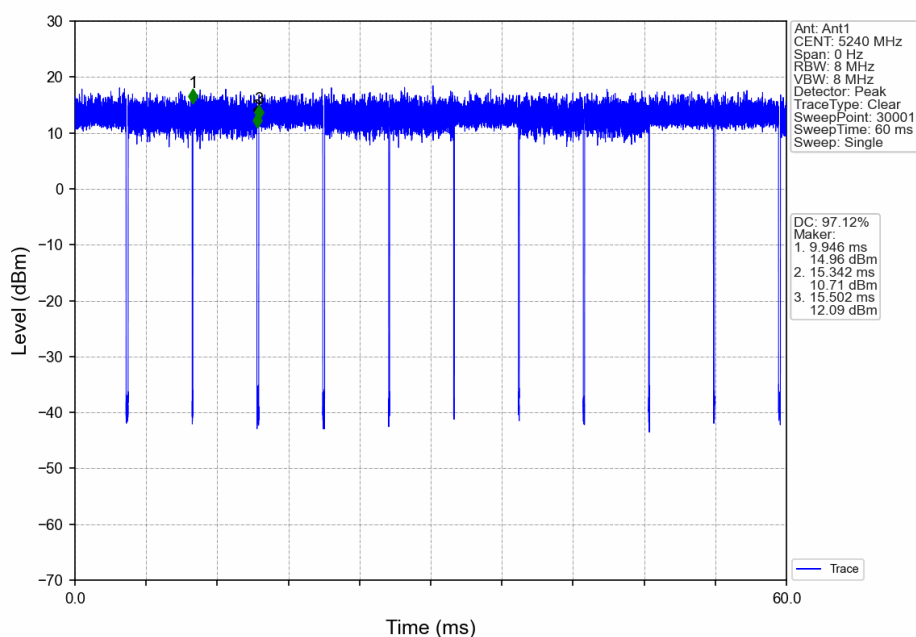
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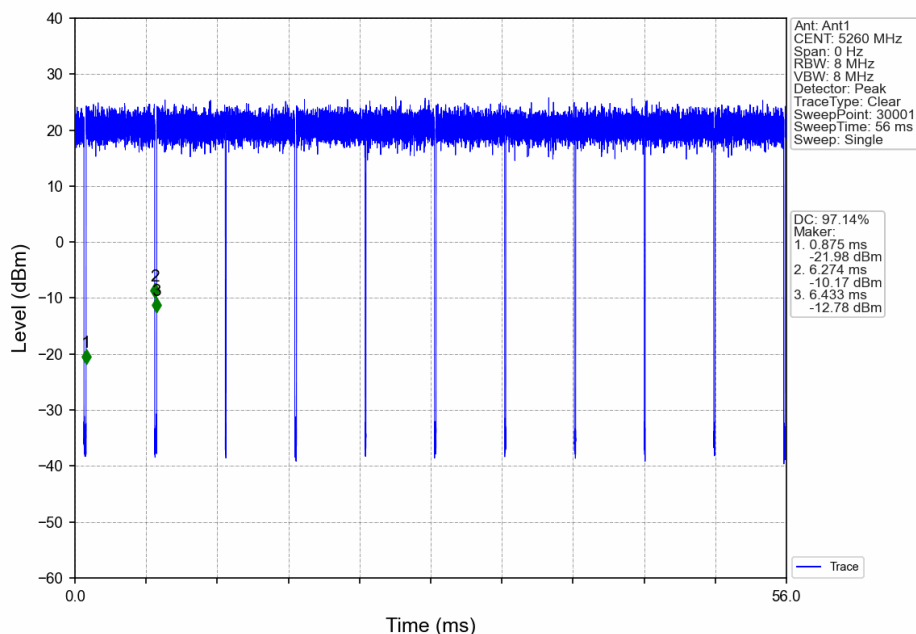
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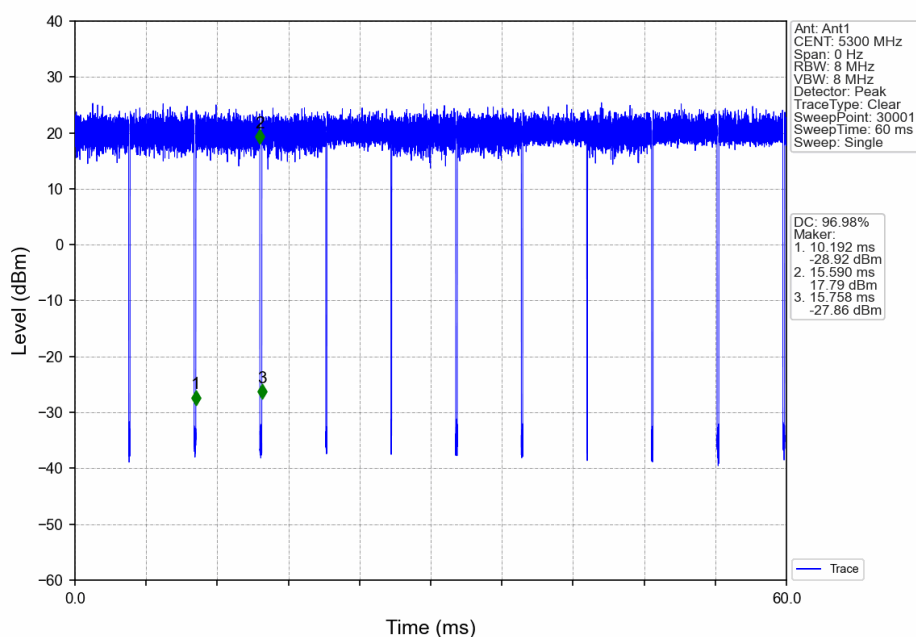
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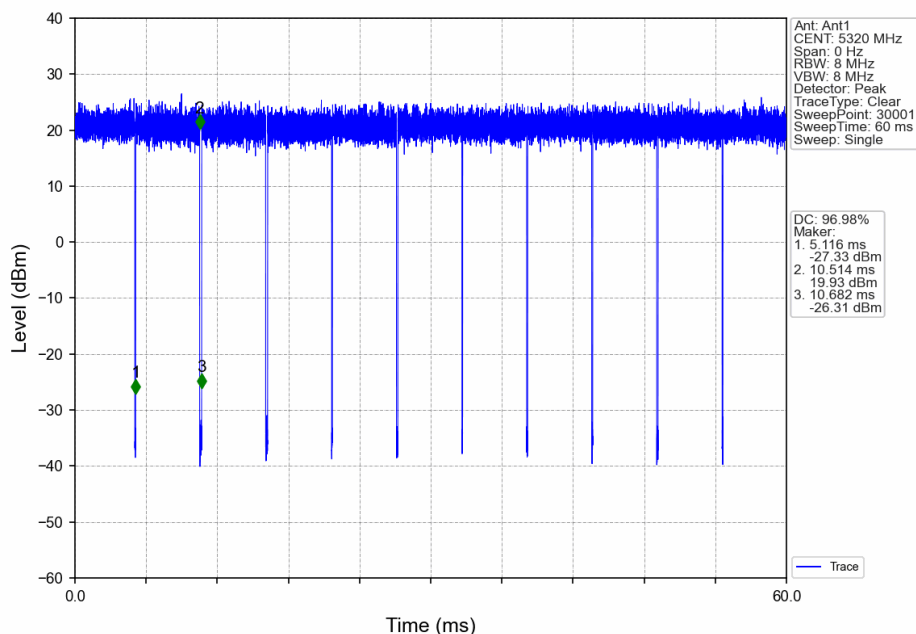
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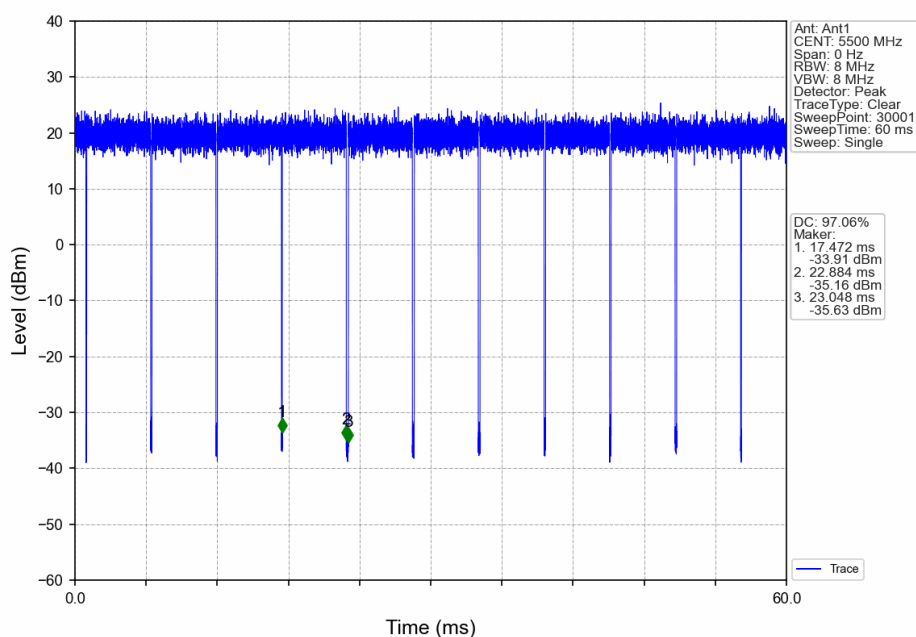
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



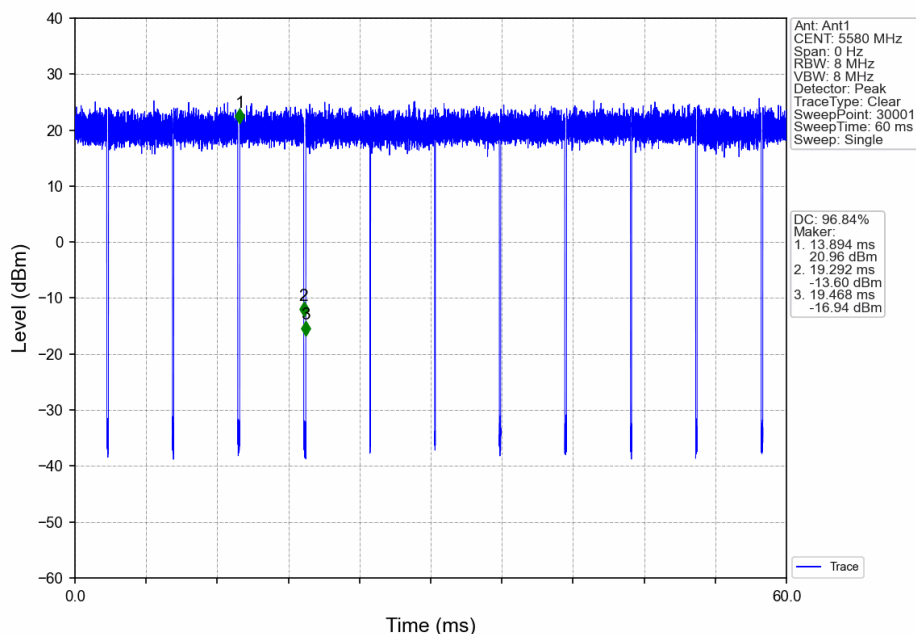
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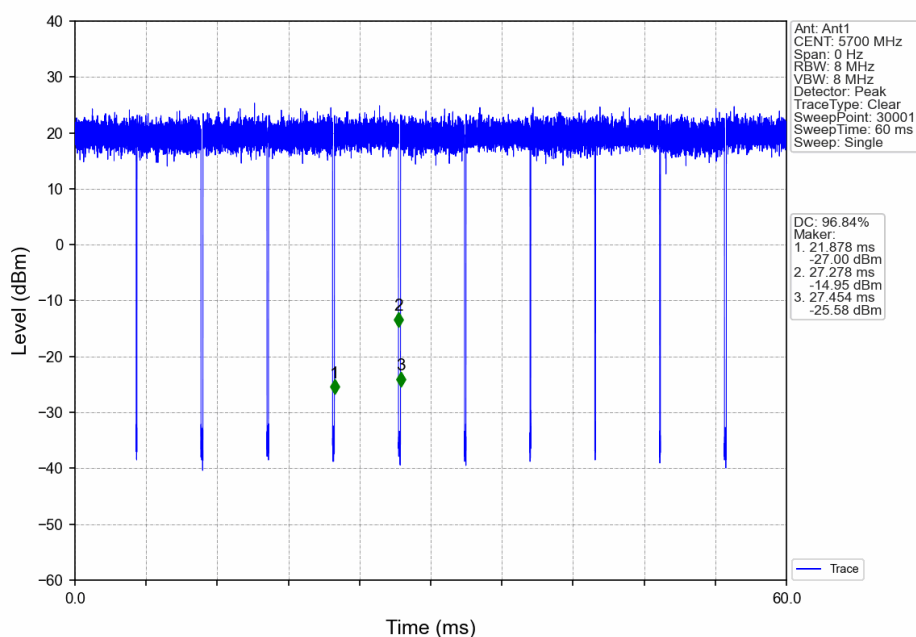
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



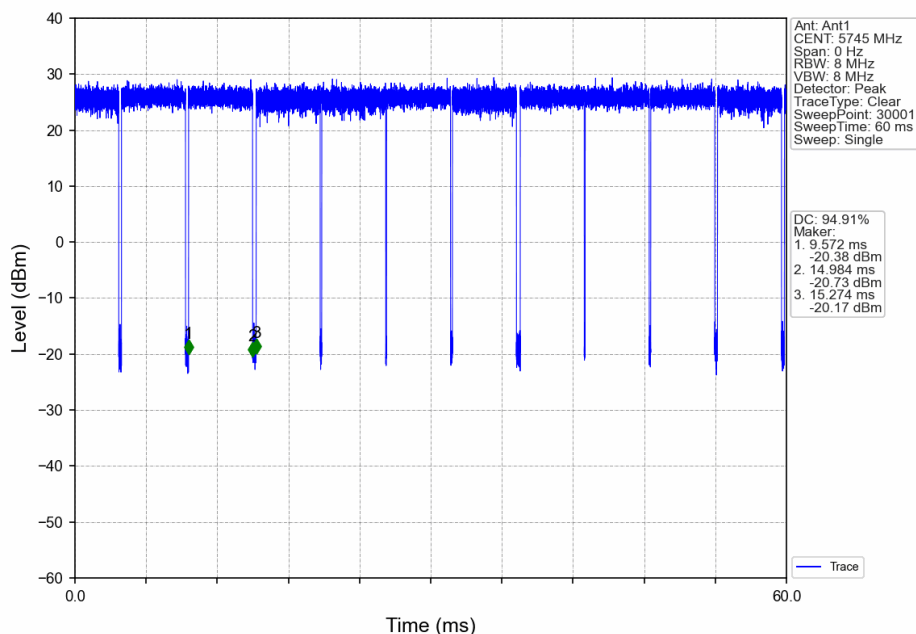
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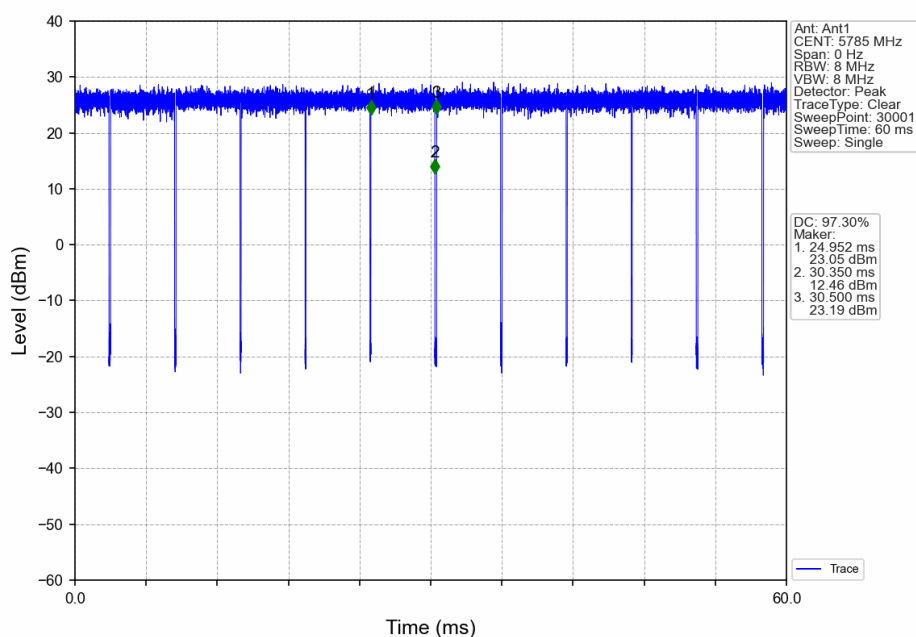
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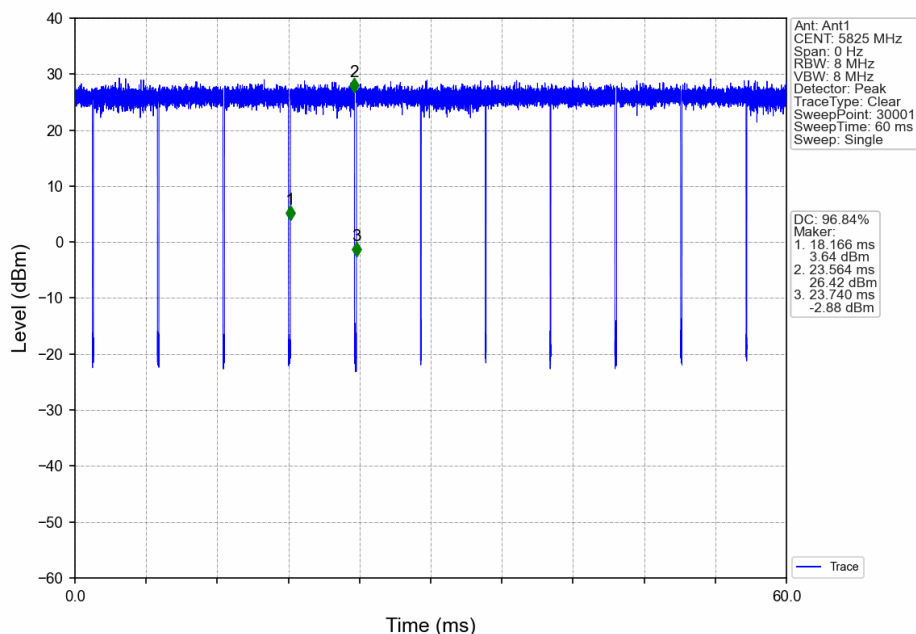
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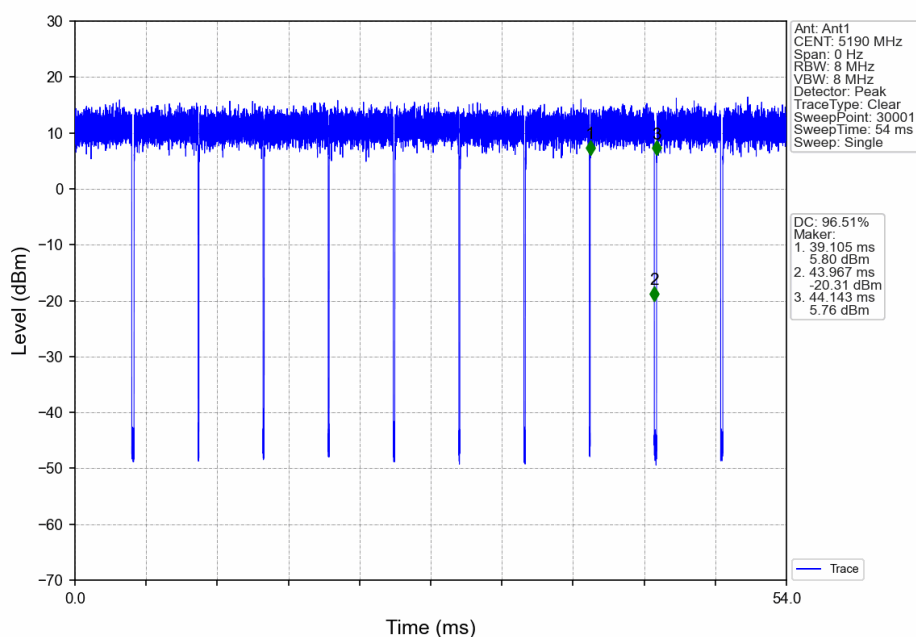
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



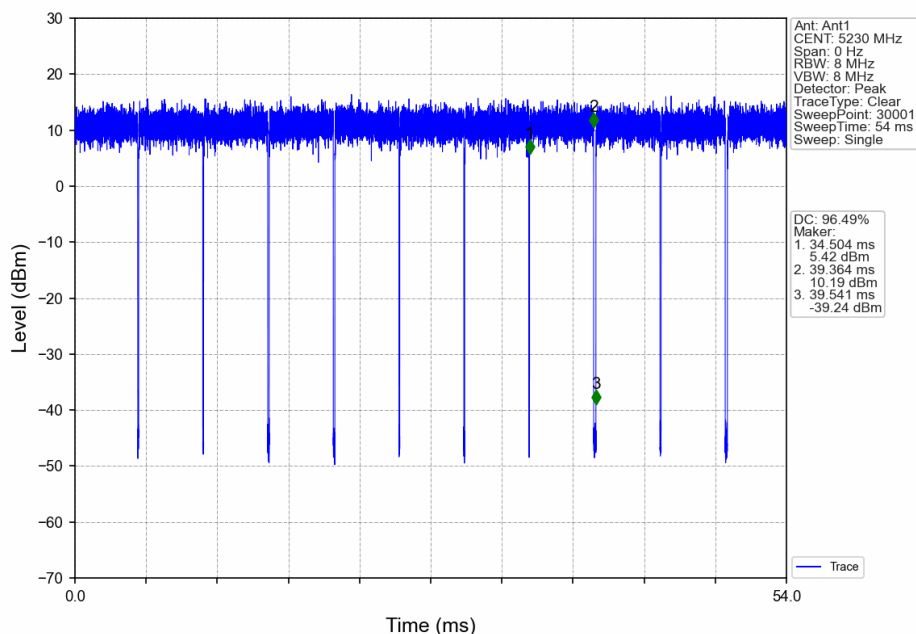
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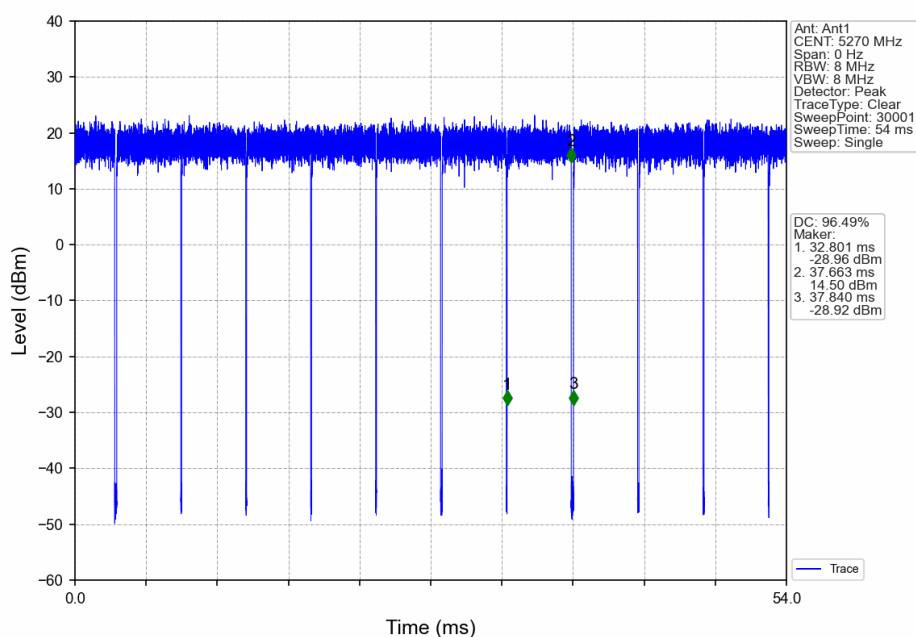
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



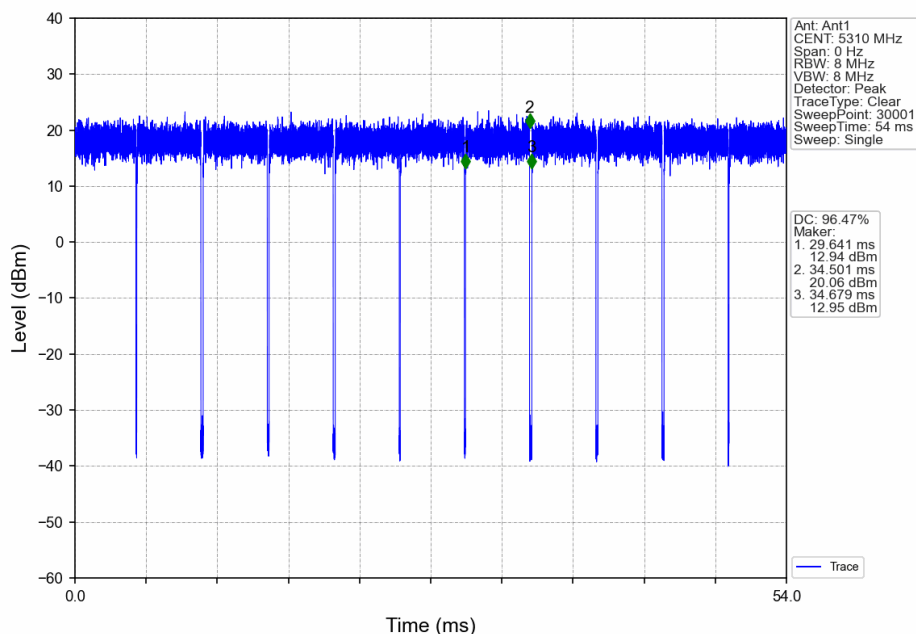
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



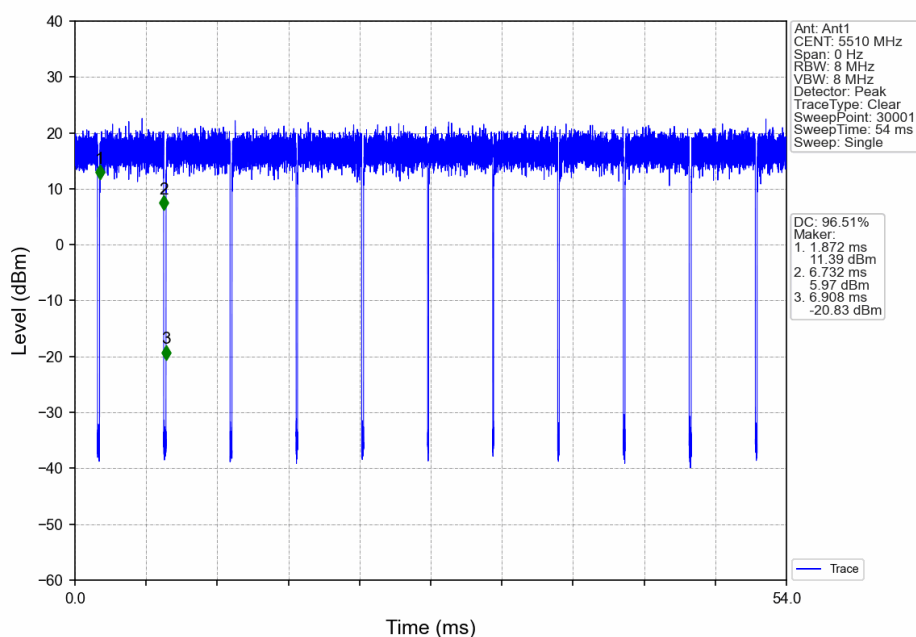
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



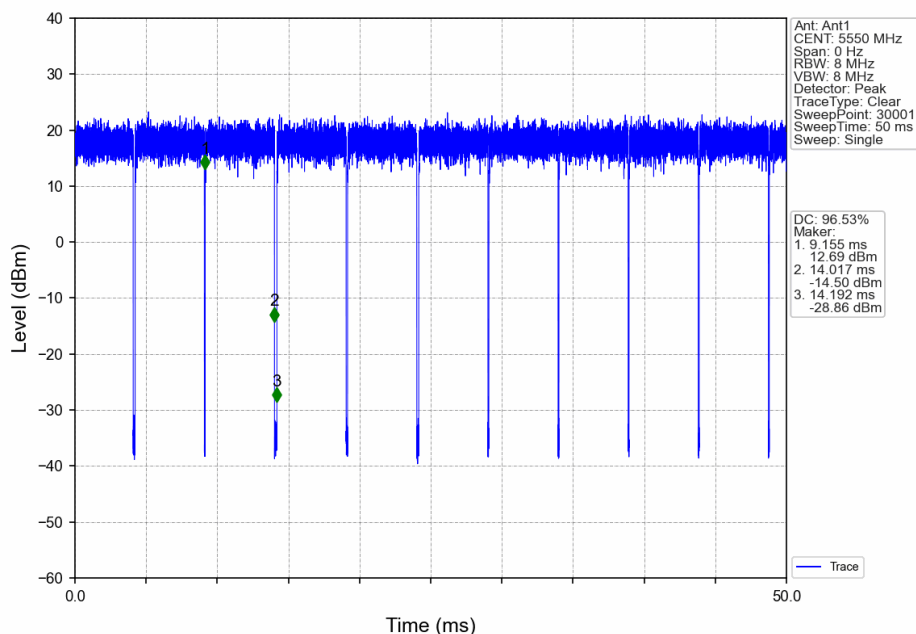
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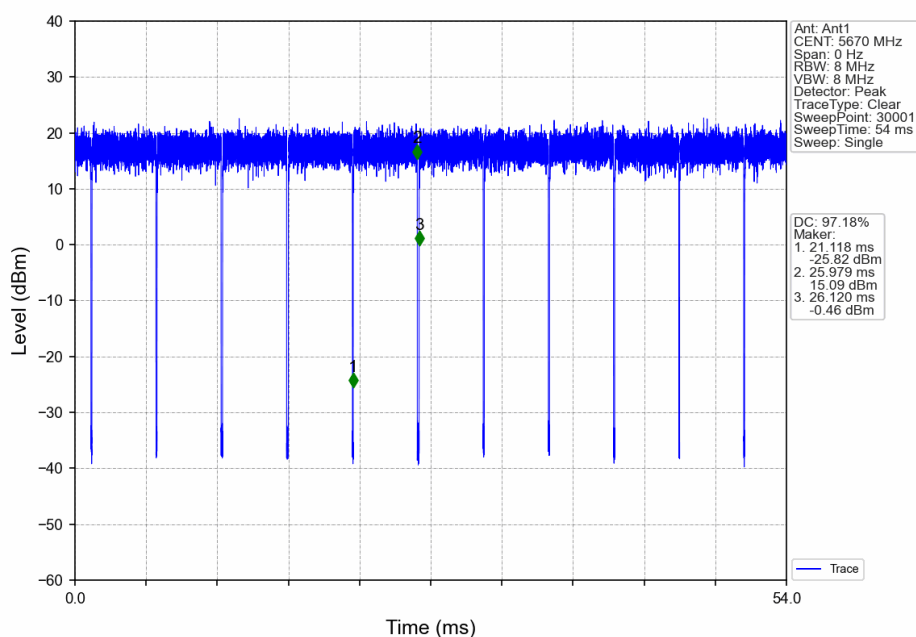
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



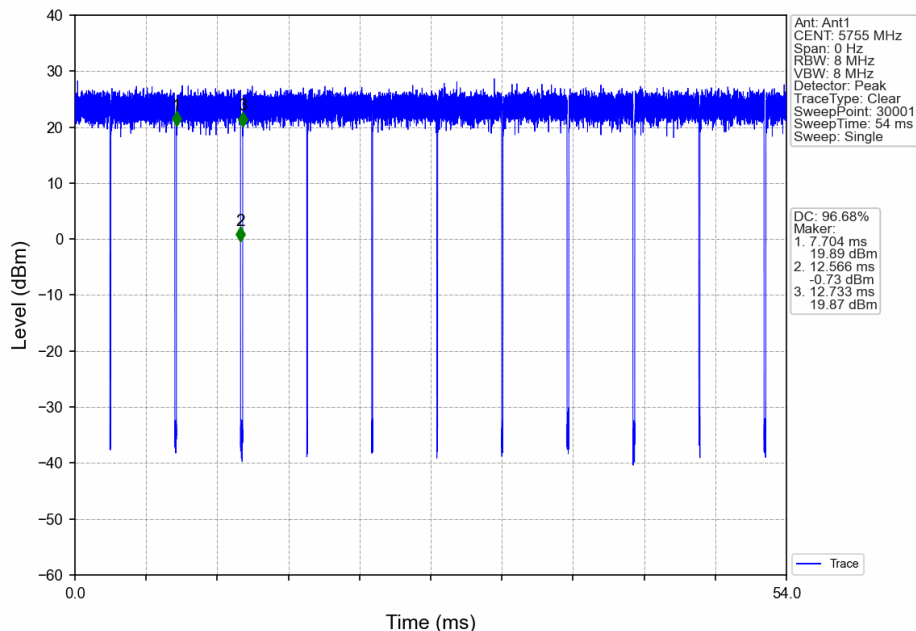
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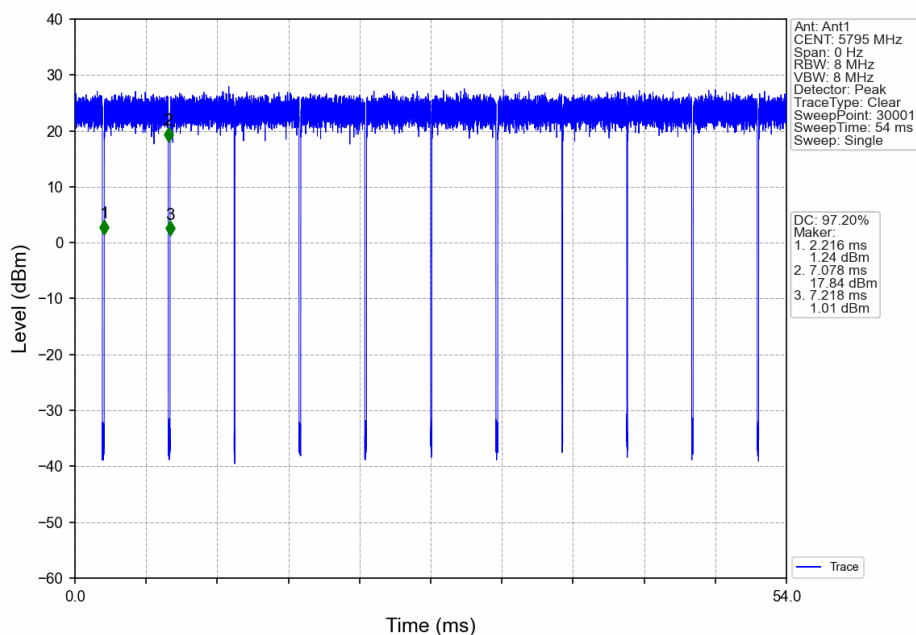
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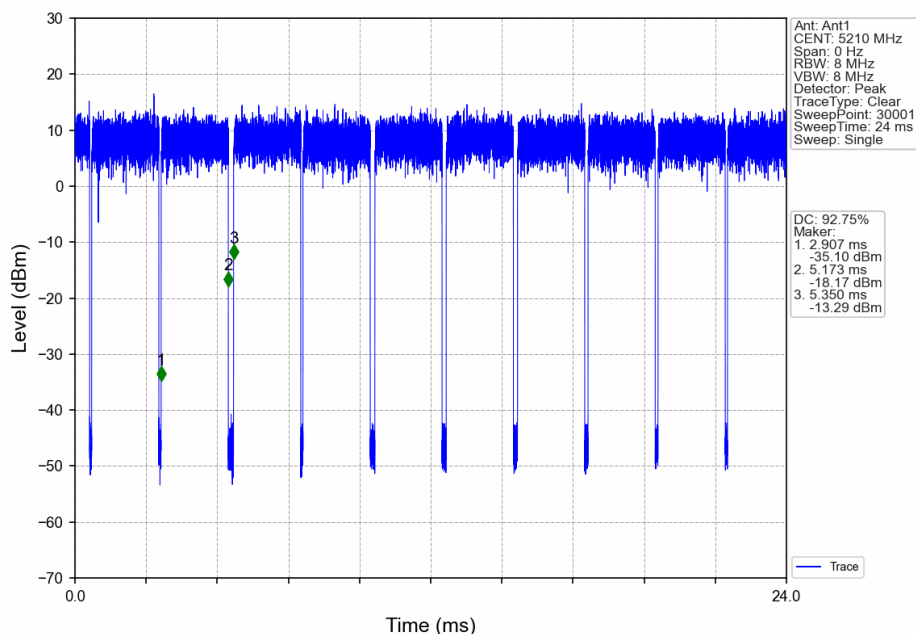
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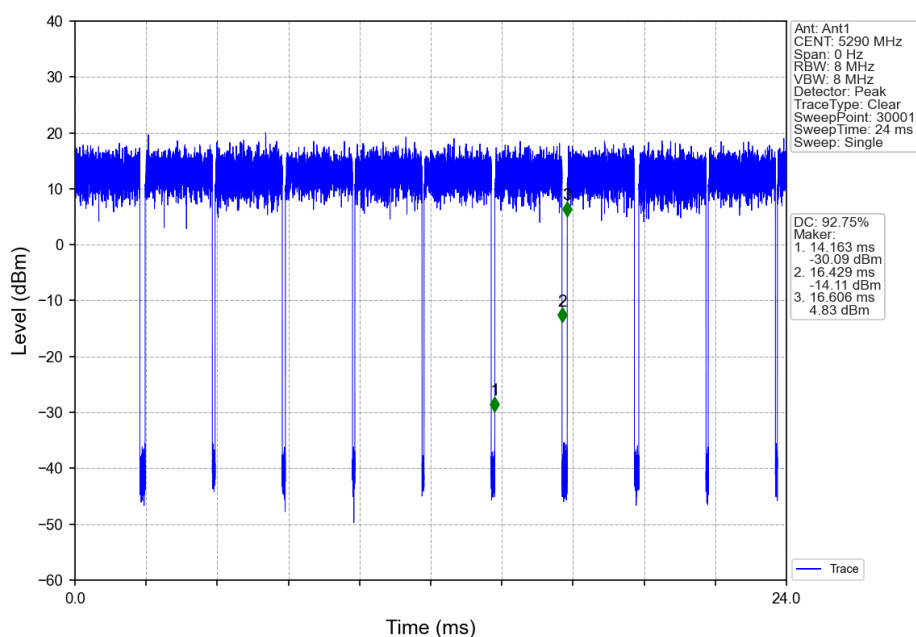
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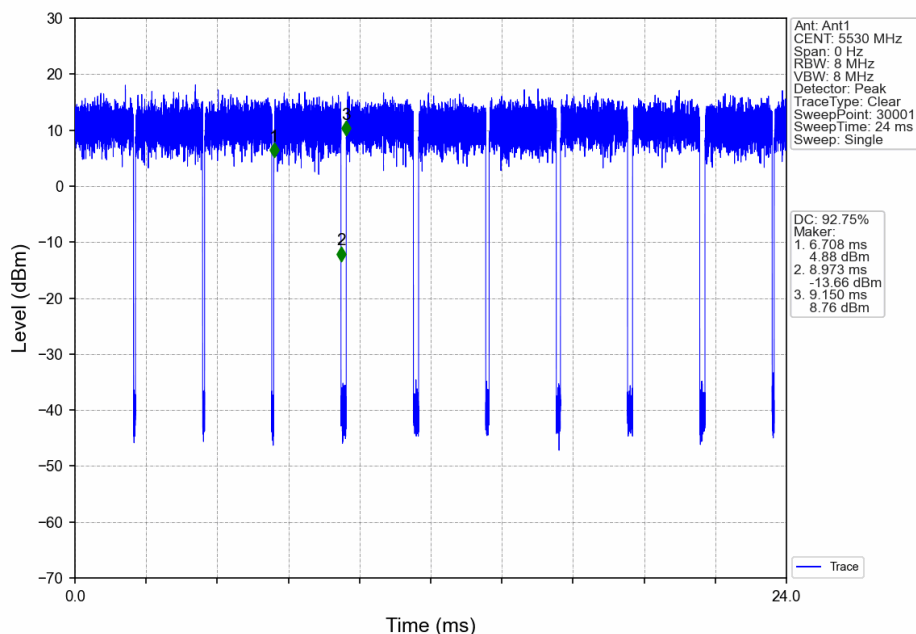
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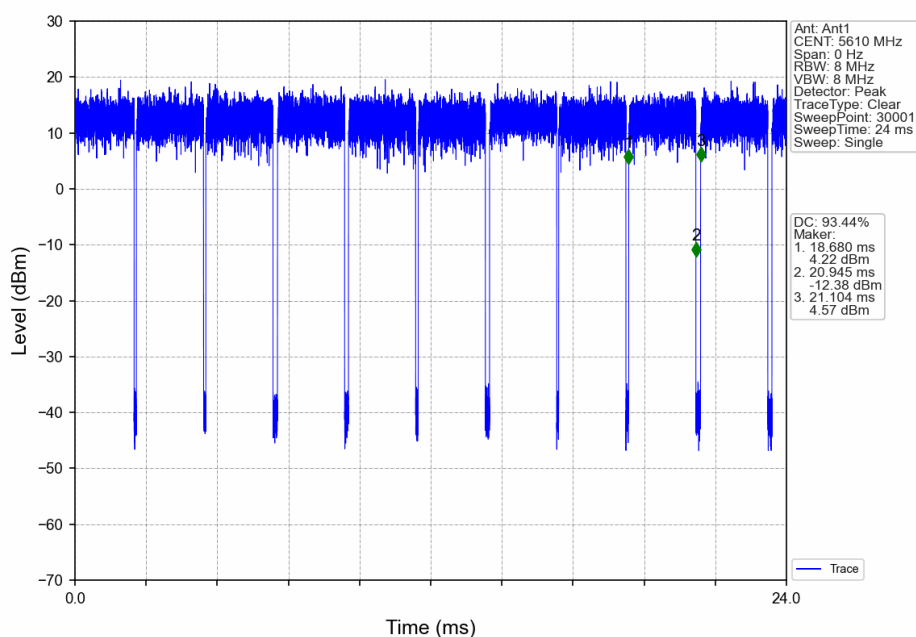
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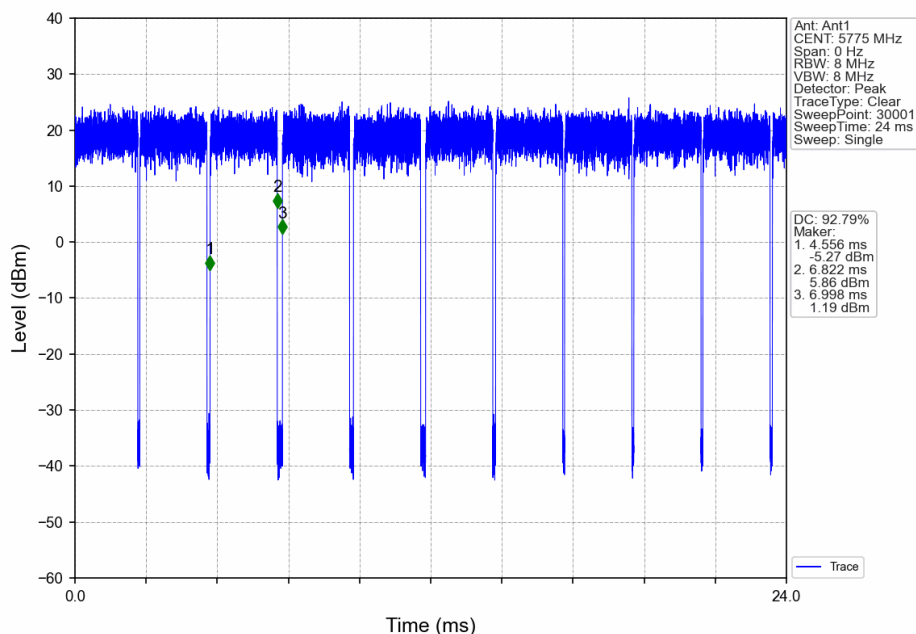
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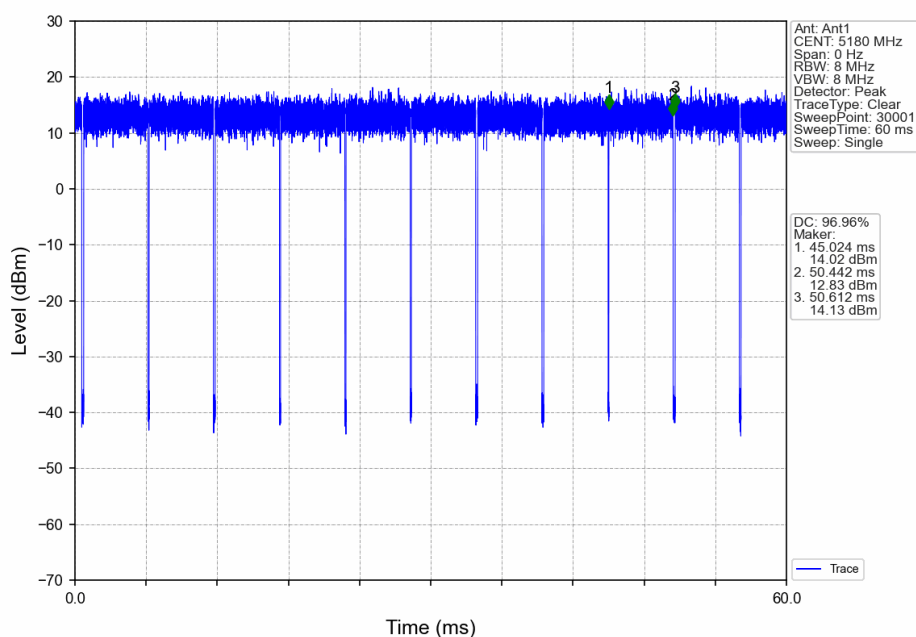
802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



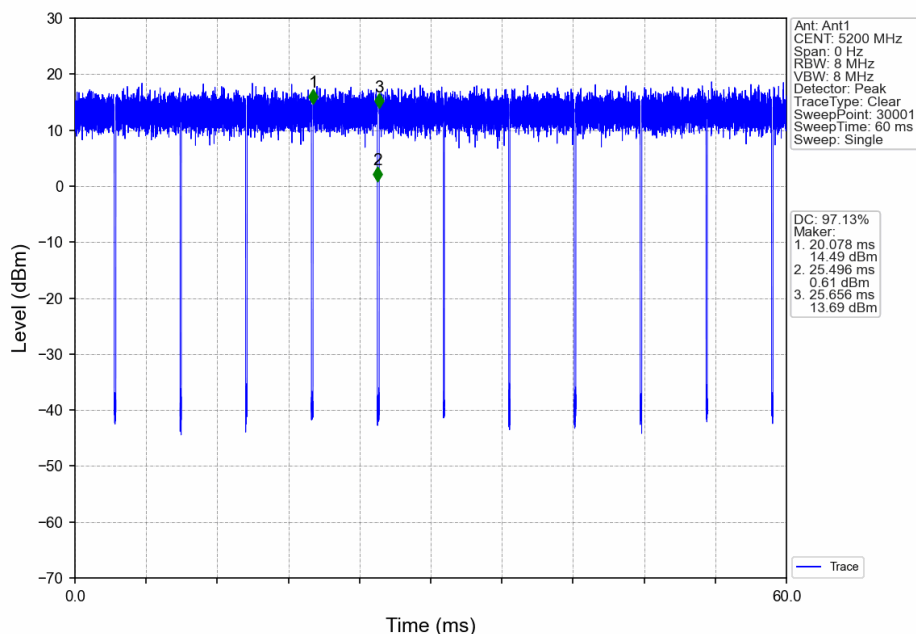
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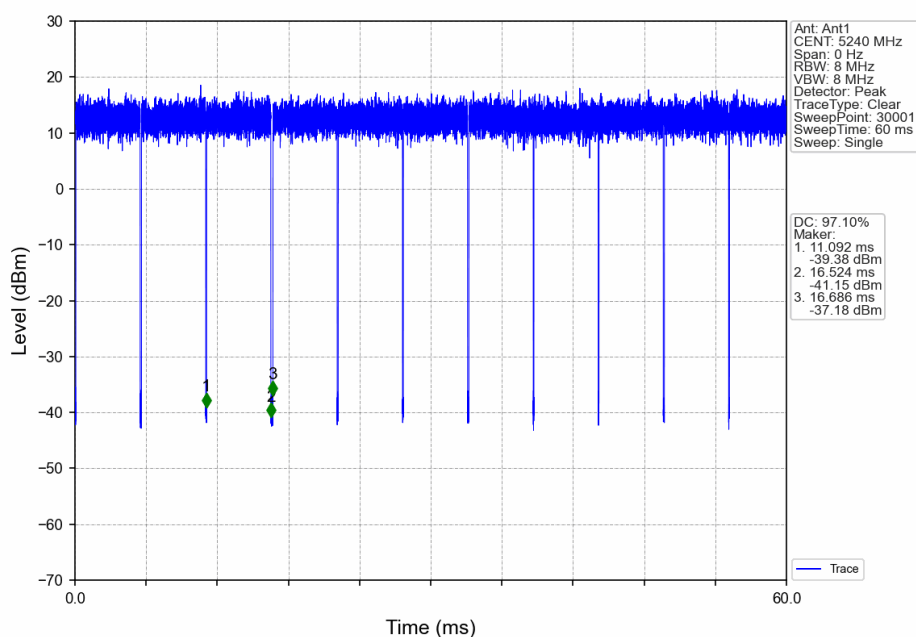
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802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



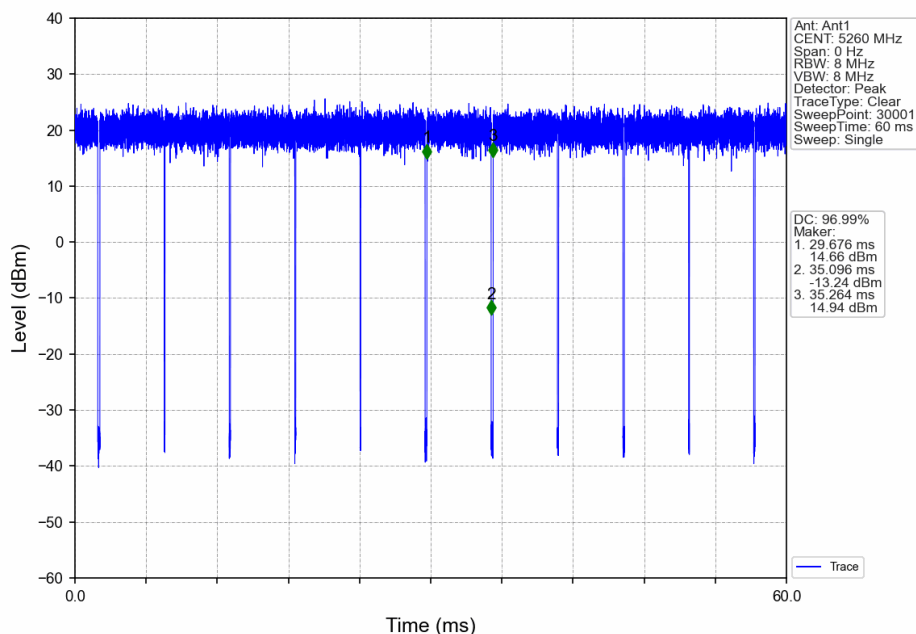
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



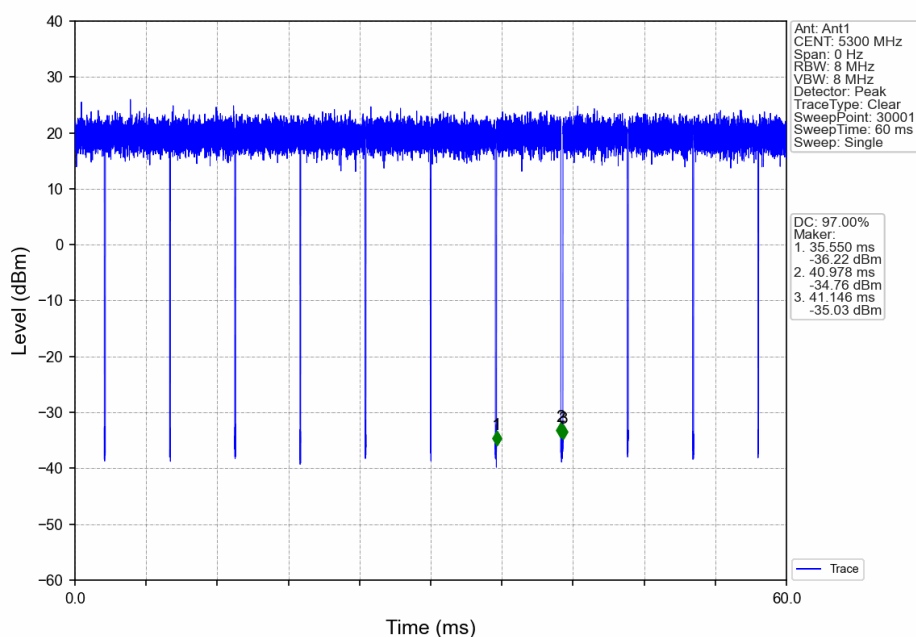
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802.11ax(HEW20)_LCH_5260MHz_RU242_Left_Ant1_NTNV



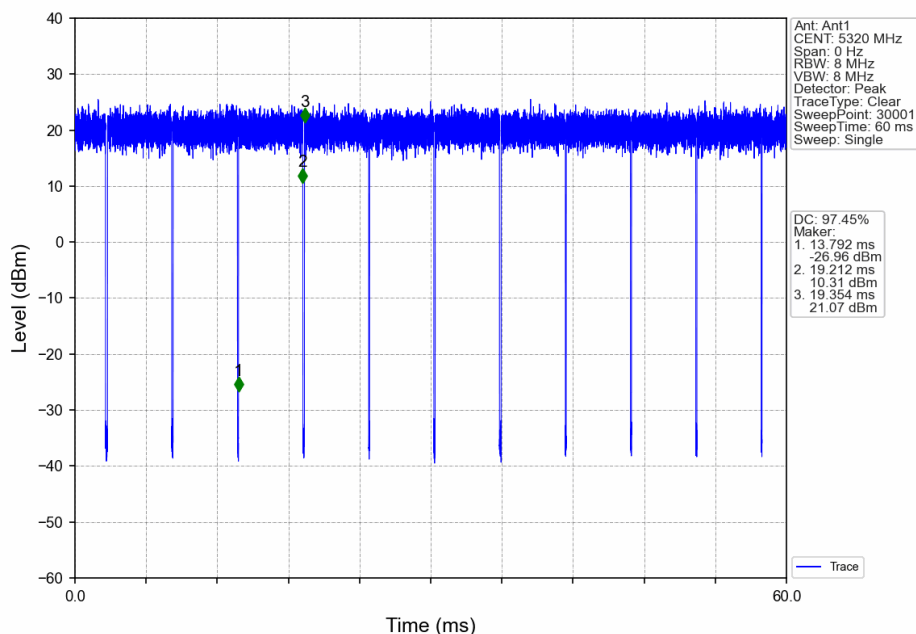
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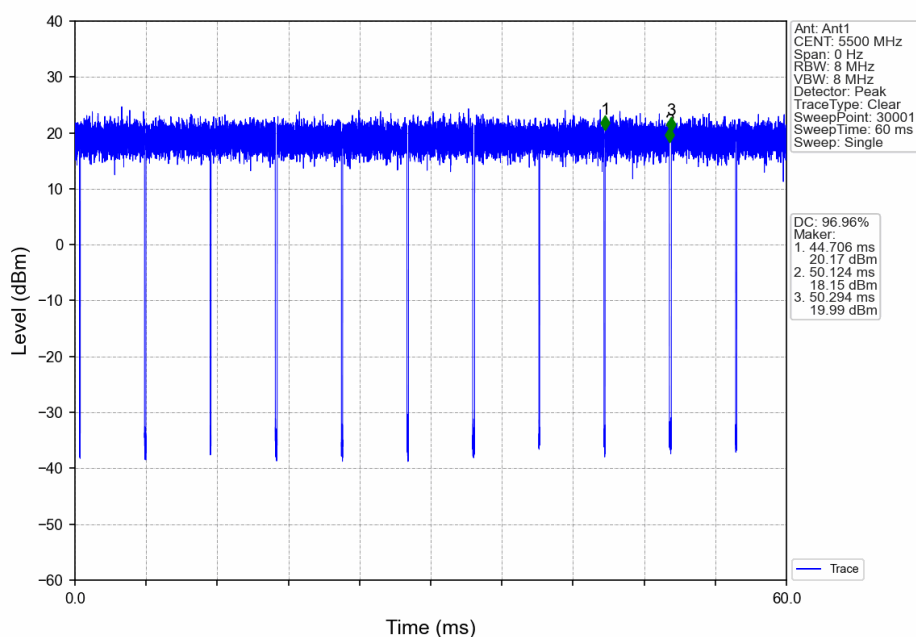
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802.11ax(HEW20)_HCH_5320MHz_RU242_Left_Ant1_NTNV



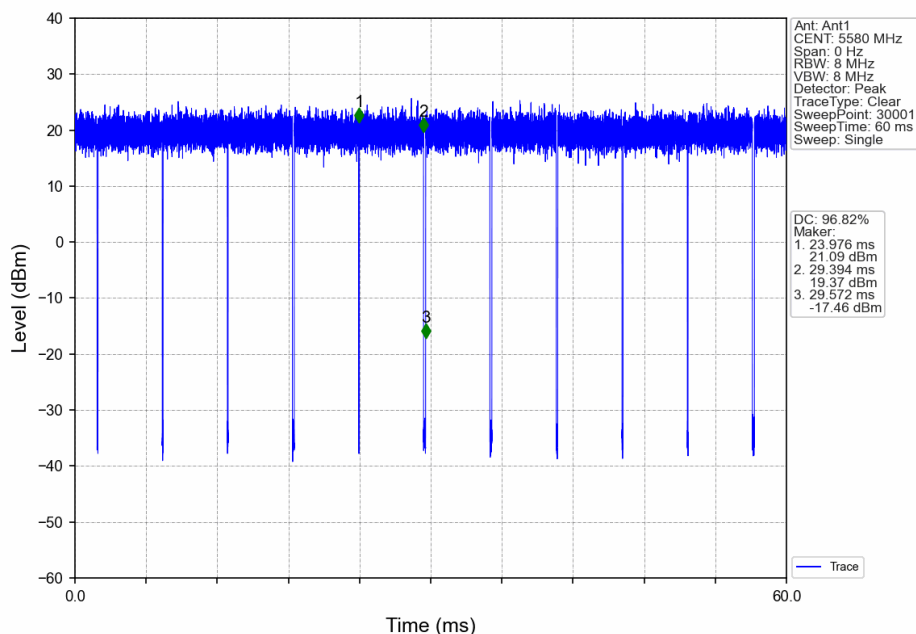
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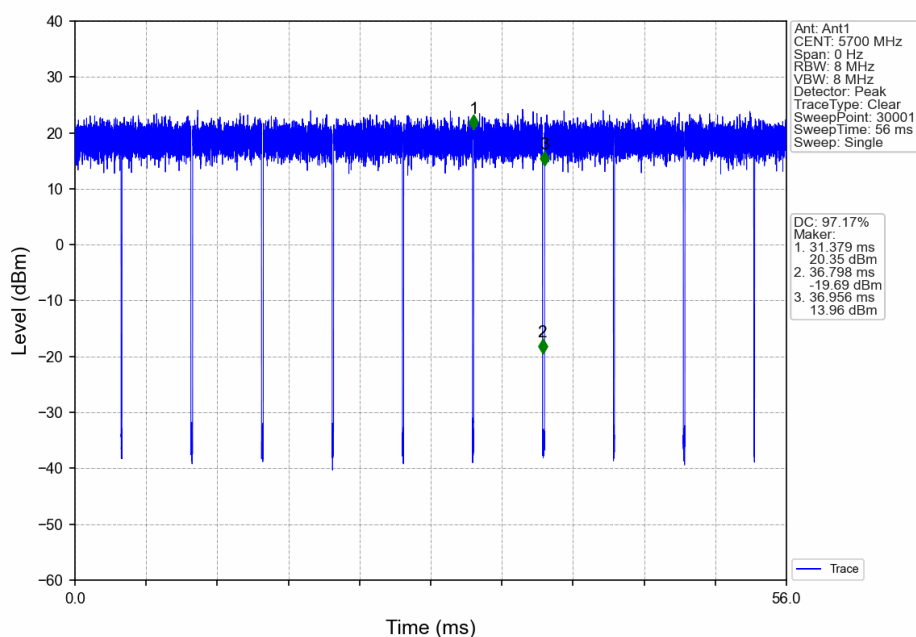
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802.11ax(HEW20)_MCH_5580MHz_RU242_Left_Ant1_NTNV



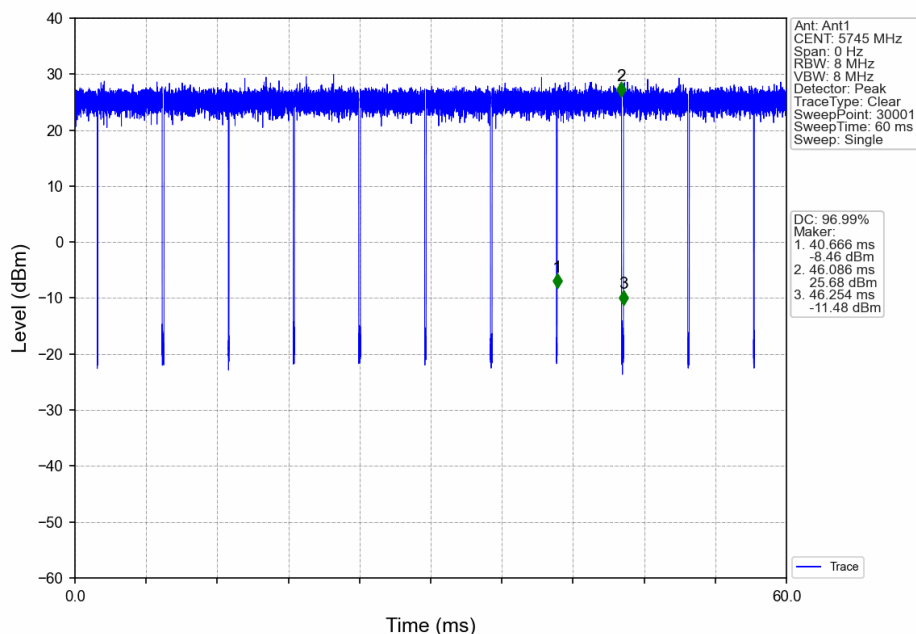
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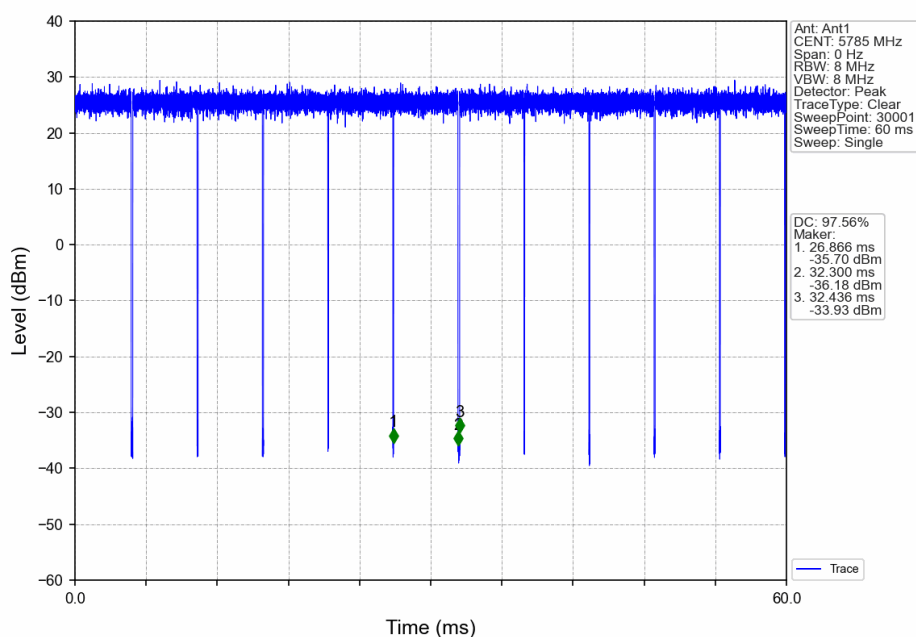
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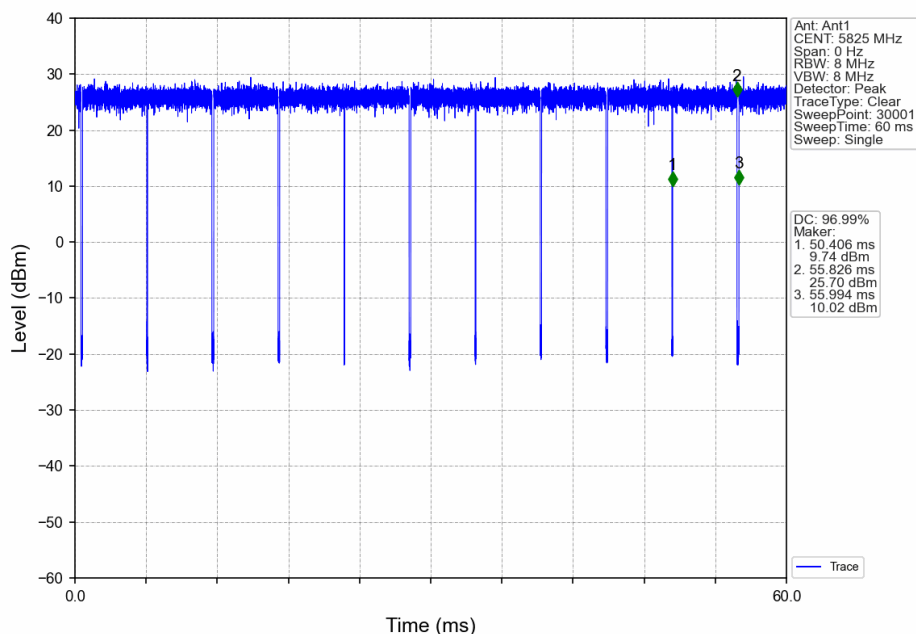
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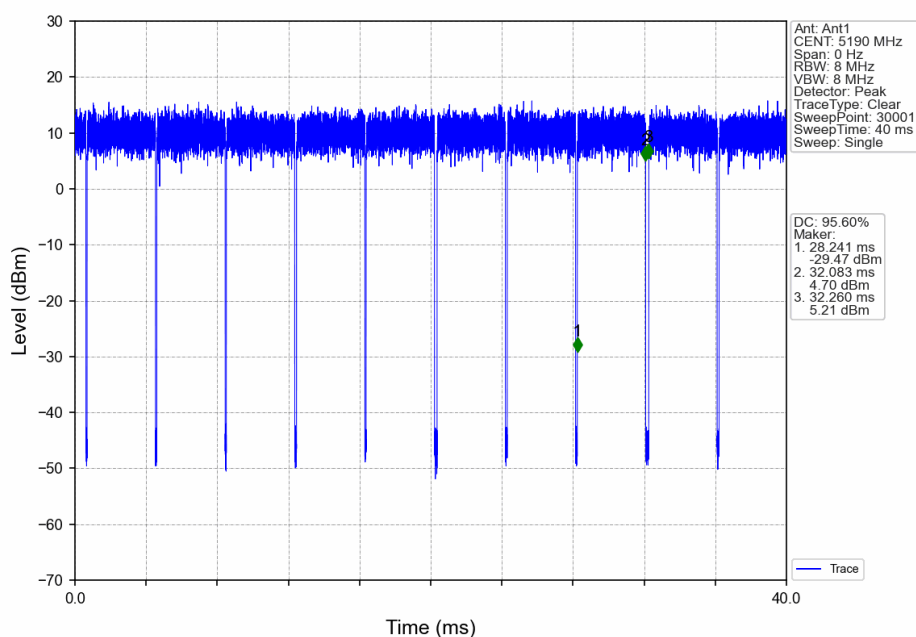
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802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant1_NTNV



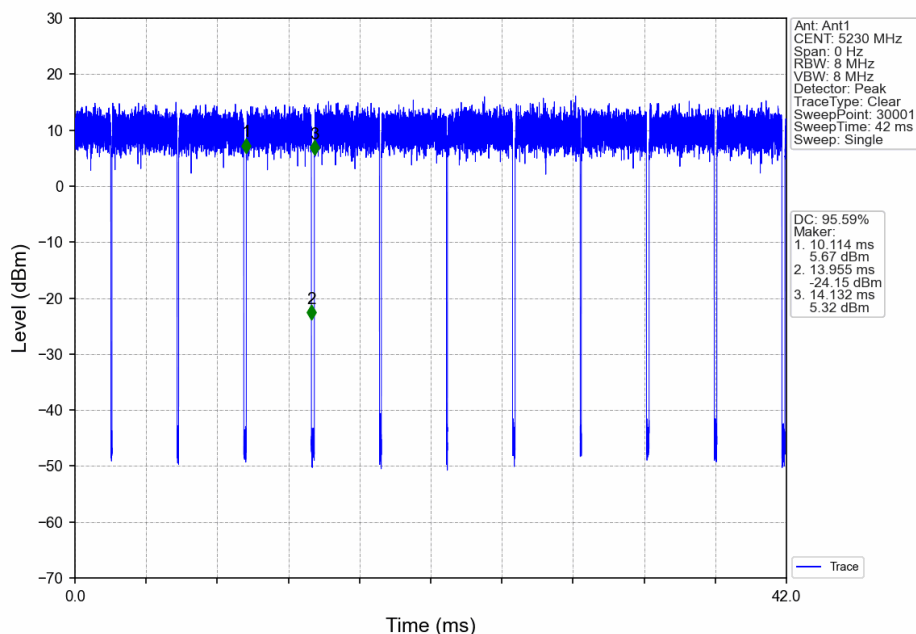
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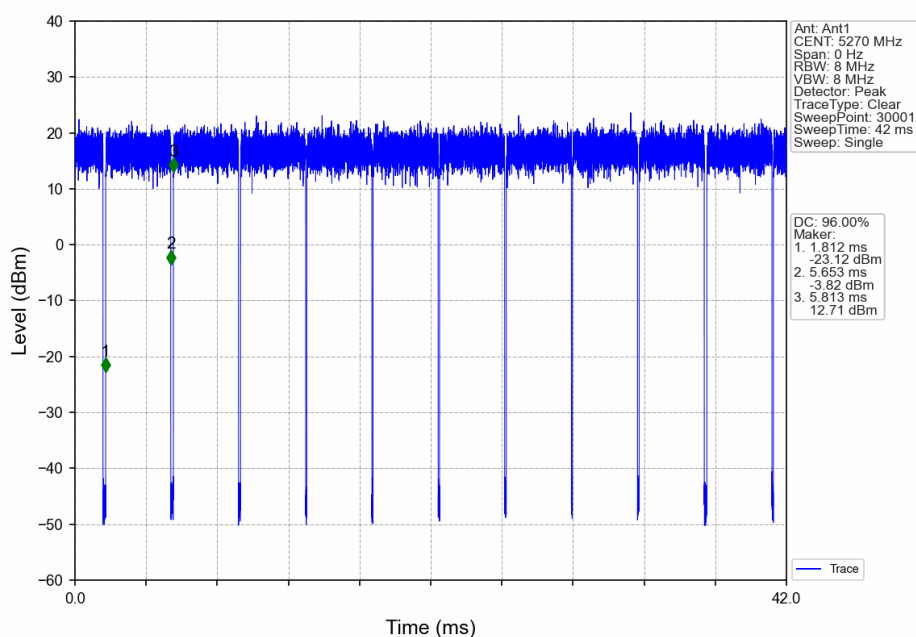
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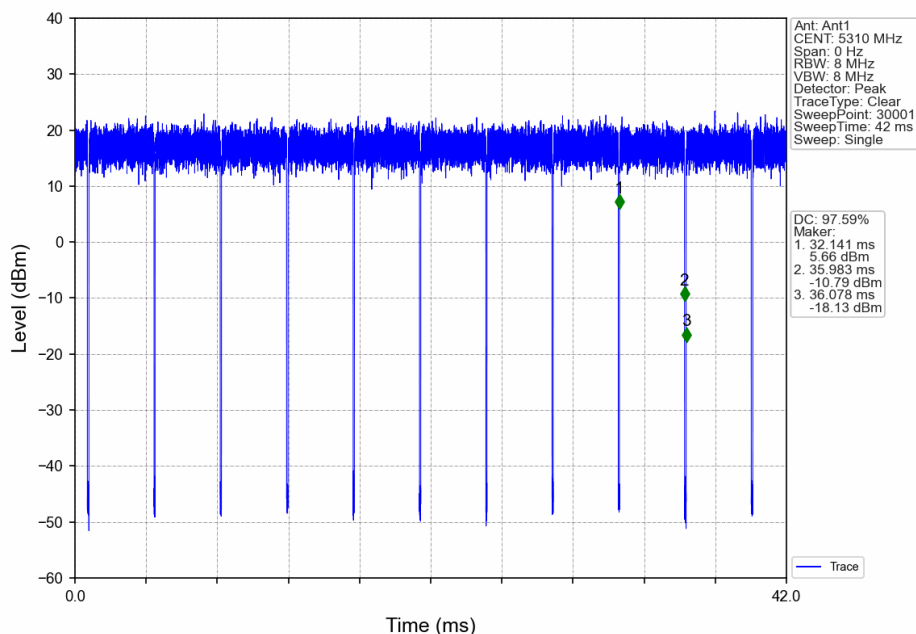
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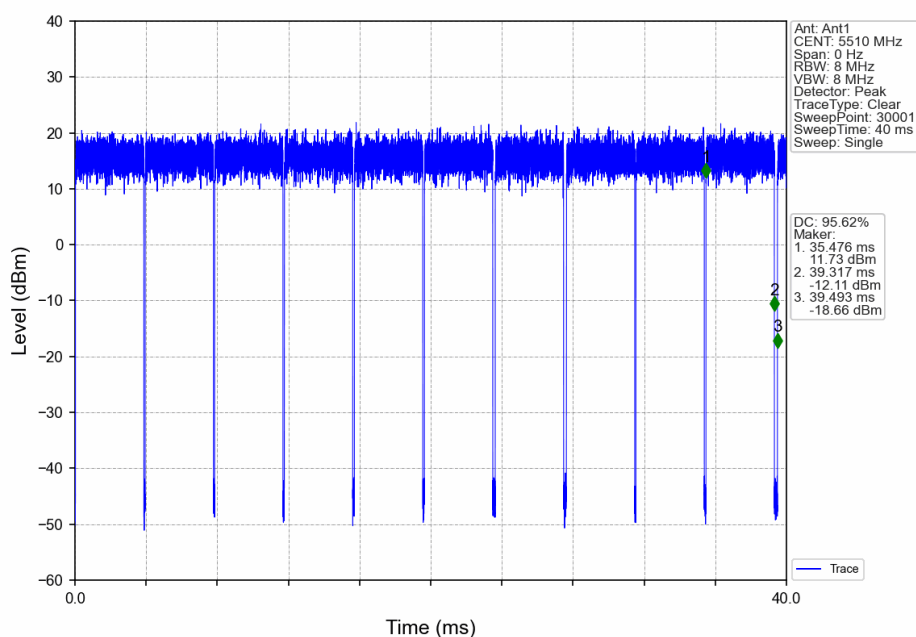
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802.11ax(HEW40)_HCH_5310MHz_RU484_Left_Ant1_NTNV



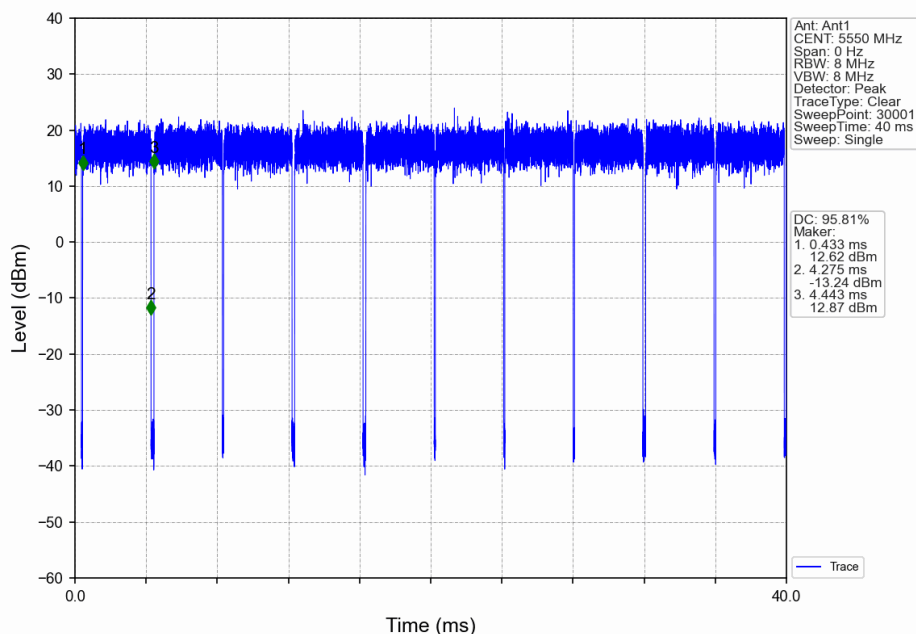
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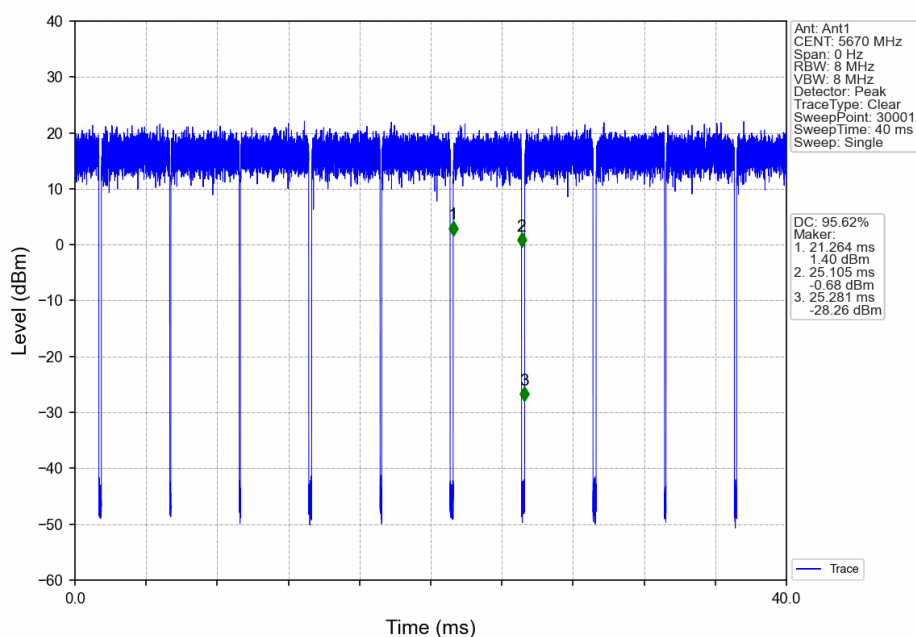
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802.11ax(HEW40)_MCH_5550MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5670MHz_RU484_Left_Ant1_NTNV



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