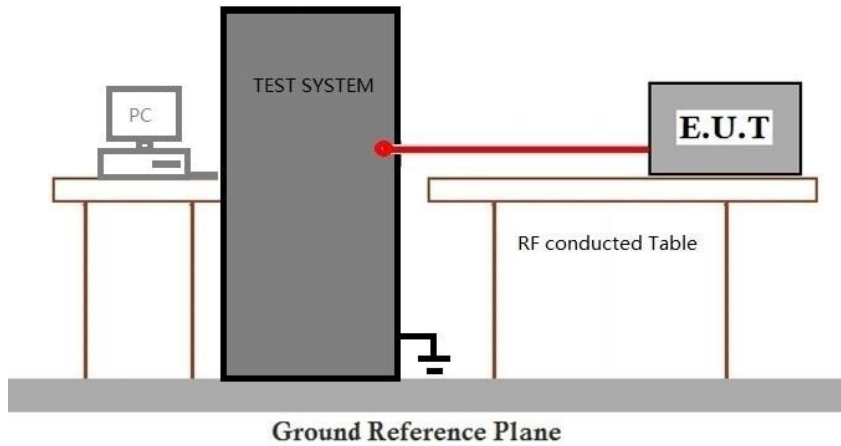


7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.13 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

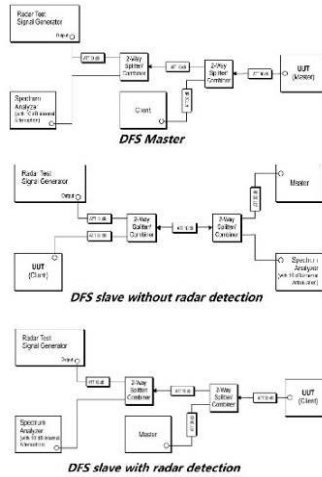
Operating Environment:

Temperature: 24.6 °C

Humidity: 42.6 % RH

Atmospheric Pressure: 1020 mbar

7.13.2 Test Setup Diagram



7.13.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2408003197AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2408003197AT

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

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	/	/	1.392	1.435	97.00	0.13	0.03
		5200	/	/	1.393	1.436	97.01	0.13	0.03
		5240	/	/	1.392	1.437	96.87	0.14	0.03
		5260	/	/	1.394	1.437	97.01	0.13	0.03
		5300	/	/	1.393	1.436	97.01	0.13	0.06
		5320	/	/	1.393	1.436	97.01	0.13	0.03
		5500	/	/	1.393	1.436	97.01	0.13	0.03
		5580	/	/	1.392	1.436	96.94	0.14	0.06
		5700	/	/	1.393	1.437	96.94	0.14	0.07
		5745	/	/	1.392	1.436	96.94	0.14	0.03
		5785	/	/	1.393	1.436	97.01	0.13	0.06
		5825	/	/	1.392	1.437	96.87	0.14	0.03
802.11n (HT20)	MIMO	5180	/	/	1.302	1.335	97.53	0.11	0.03
		5200	/	/	1.300	1.335	97.38	0.12	0.00
		5240	/	/	1.301	1.336	97.38	0.12	0.03
		5260	/	/	1.302	1.335	97.53	0.11	0.03
		5300	/	/	1.300	1.335	97.38	0.12	0.03
		5320	/	/	1.300	1.335	97.38	0.12	0.04
		5500	/	/	1.302	1.335	97.53	0.11	0.03
		5580	/	/	1.302	1.335	97.53	0.11	0.04
		5700	/	/	1.302	1.335	97.53	0.11	0.03
		5745	/	/	1.300	1.335	97.38	0.12	0.03
		5785	/	/	1.302	1.335	97.53	0.11	0.03
		5825	/	/	1.302	1.335	97.53	0.11	0.03
802.11n (HT40)	MIMO	5190	/	/	0.650	0.683	95.17	0.22	0.03
		5230	/	/	0.648	0.683	94.88	0.23	0.04
		5270	/	/	0.650	0.684	95.03	0.22	0.07

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800319705

Page: 313 of 649

		5310	/	/	0.650	0.683	95.17	0.22	0.03
		5510	/	/	0.648	0.683	94.88	0.23	0.03
		5550	/	/	0.648	0.683	94.88	0.23	0.07
		5670	/	/	0.648	0.683	94.88	0.23	0.07
		5755	/	/	0.649	0.683	95.02	0.22	0.00
		5795	/	/	0.649	0.683	95.02	0.22	0.03
802.11ac (VHT20)	MIMO	5180	/	/	0.680	0.715	95.10	0.22	0.03
		5200	/	/	0.680	0.715	95.10	0.22	0.10
		5240	/	/	0.680	0.716	94.97	0.22	0.03
		5260	/	/	0.680	0.715	95.10	0.22	0.06
		5300	/	/	0.681	0.716	95.11	0.22	0.06
		5320	/	/	0.680	0.715	95.10	0.22	0.03
		5500	/	/	0.680	0.715	95.10	0.22	0.03
		5580	/	/	0.681	0.716	95.11	0.22	0.03
		5700	/	/	0.680	0.715	95.10	0.22	0.06
		5745	/	/	0.680	0.715	95.10	0.22	0.03
		5785	/	/	0.681	0.715	95.24	0.21	0.03
		5825	/	/	0.681	0.716	95.11	0.22	0.03
802.11ac (VHT40)	MIMO	5190	/	/	0.352	0.387	90.96	0.41	0.19
		5230	/	/	0.352	0.387	90.96	0.41	0.07
		5270	/	/	0.353	0.388	90.98	0.41	0.07
		5310	/	/	0.352	0.387	90.96	0.41	0.07
		5510	/	/	0.353	0.388	90.98	0.41	0.16
		5550	/	/	0.353	0.388	90.98	0.41	0.16
		5670	/	/	0.353	0.388	90.98	0.41	0.16
		5755	/	/	0.353	0.388	90.98	0.41	0.16
		5795	/	/	0.352	0.387	90.96	0.41	0.03
802.11ac (VHT80)	MIMO	5210	/	/	0.188	0.223	84.30	0.74	0.06
		5290	/	/	0.188	0.223	84.30	0.74	0.06
		5530	/	/	0.191	0.223	85.65	0.67	0.08
		5610	/	/	0.189	0.223	84.75	0.72	0.08
		5775	/	/	0.188	0.223	84.30	0.74	0.05
802.11ax (HEW20)	MIMO	5180	RU242	Left	0.525	1.288	40.76	3.90	0.36
		5200	RU242	Left	0.524	1.287	40.71	3.90	0.36
		5240	RU242	Left	0.526	1.315	40.00	3.98	1.13
		5260	RU242	Left	0.525	1.288	40.76	3.90	0.34
		5300	RU242	Left	0.525	1.288	40.76	3.90	0.31
		5320	RU242	Left	0.525	1.288	40.76	3.90	0.36
		5500	RU242	Left	0.524	1.324	39.58	4.03	1.42
		5580	RU242	Left	0.525	1.342	39.12	4.08	1.97



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800319705

Page: 314 of 649

		5700	RU242	Left	0.524	1.342	39.05	4.08	1.95
		5745	RU242	Left	0.524	1.288	40.68	3.91	0.32
		5785	RU242	Left	0.524	1.288	40.68	3.91	0.36
		5825	RU242	Left	0.524	1.288	40.68	3.91	0.31
802.11ax (HEW40)	MIMO	5190	RU484	Left	0.526	1.442	36.48	4.38	0.25
		5230	RU484	Left	0.526	1.503	35.00	4.56	1.76
		5270	RU484	Left	0.526	1.441	36.50	4.38	0.26
		5310	RU484	Left	0.526	1.441	36.50	4.38	0.24
		5510	RU484	Left	0.525	1.441	36.43	4.39	0.26
		5550	RU484	Left	0.526	1.441	36.50	4.38	0.27
		5670	RU484	Left	0.525	1.441	36.43	4.39	0.26
		5755	RU484	Left	0.526	1.496	35.16	4.54	1.55
802.11ax (HEW80)	MIMO	5795	RU484	Left	0.524	1.441	36.36	4.39	0.26
		5210	RU996	Left	0.289	1.196	24.16	6.17	0.21
		5290	RU996	Left	0.290	1.196	24.25	6.15	0.19
		5530	RU996	Left	0.290	1.196	24.25	6.15	0.22
		5610	RU996	Left	0.289	1.196	24.16	6.17	0.21
		5775	RU996	Left	0.289	1.196	24.16	6.17	0.21



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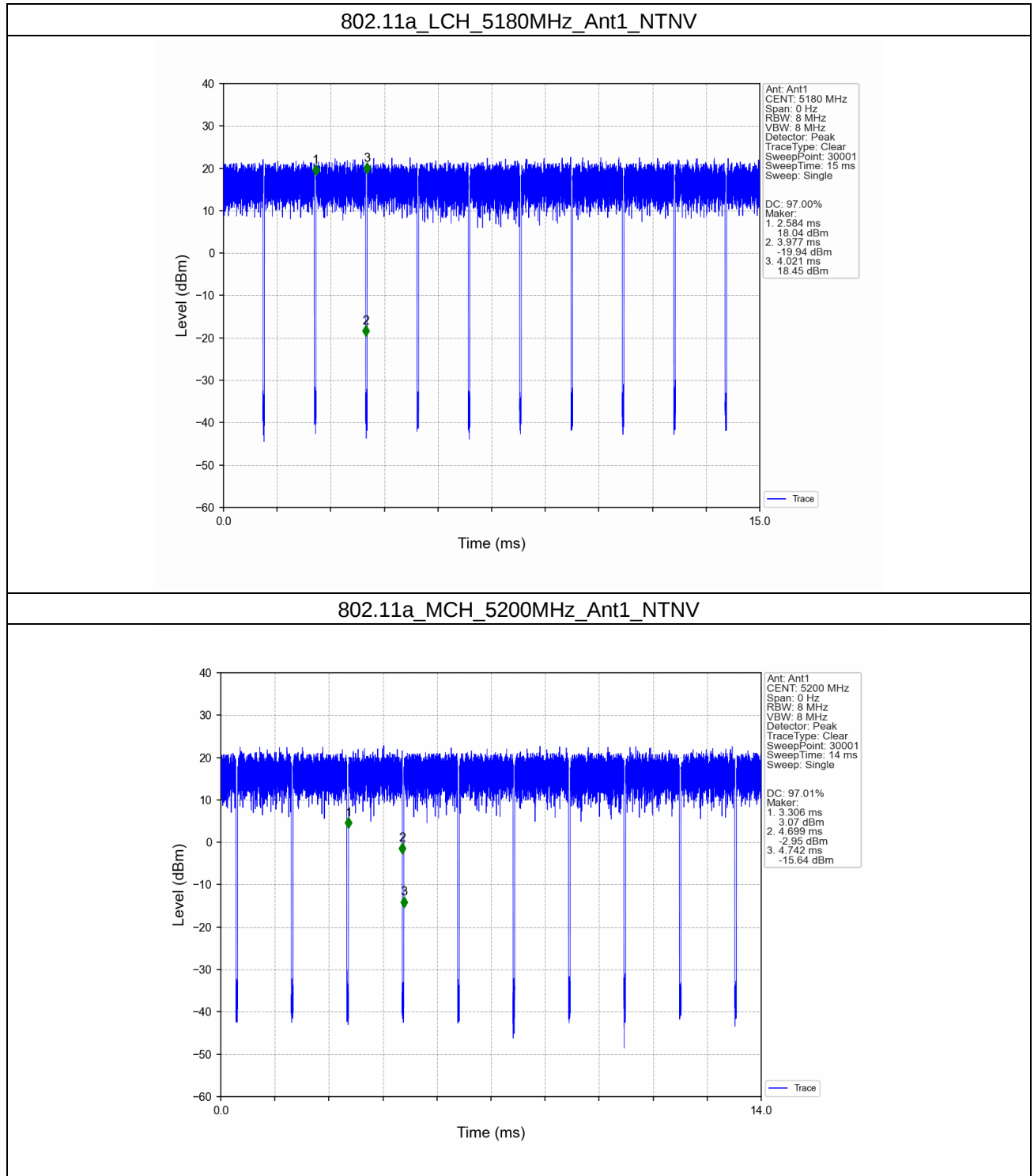
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1.2 Test Graph

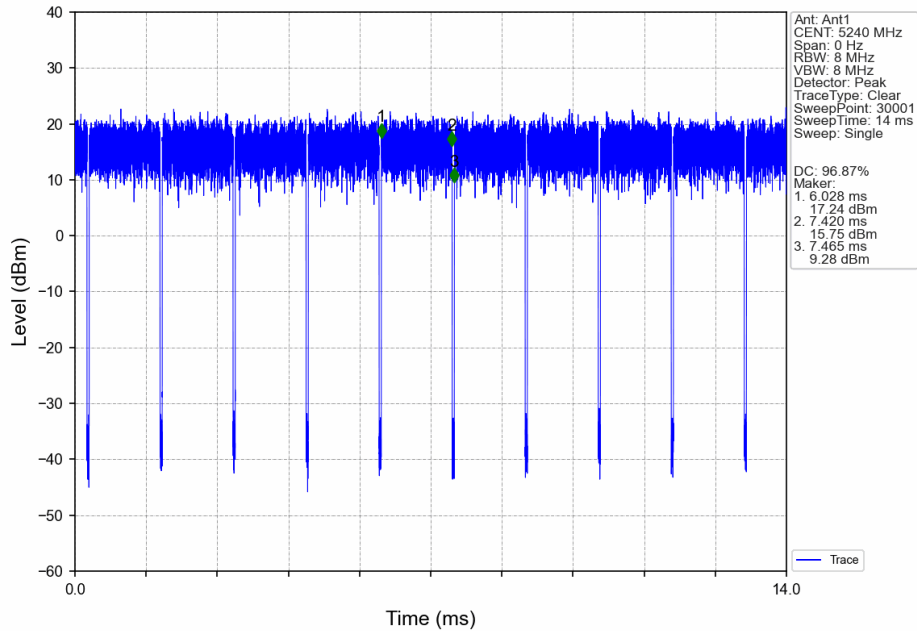
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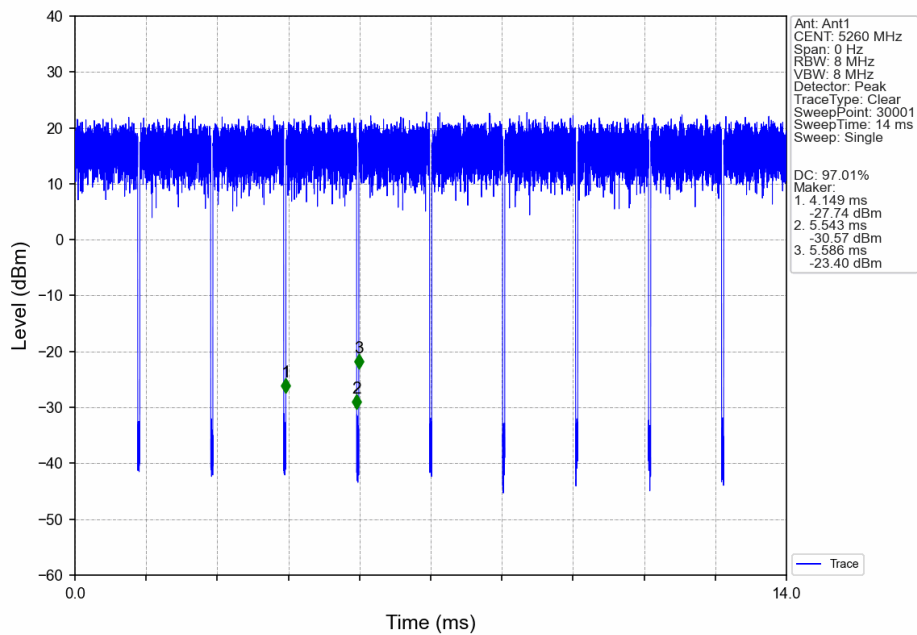
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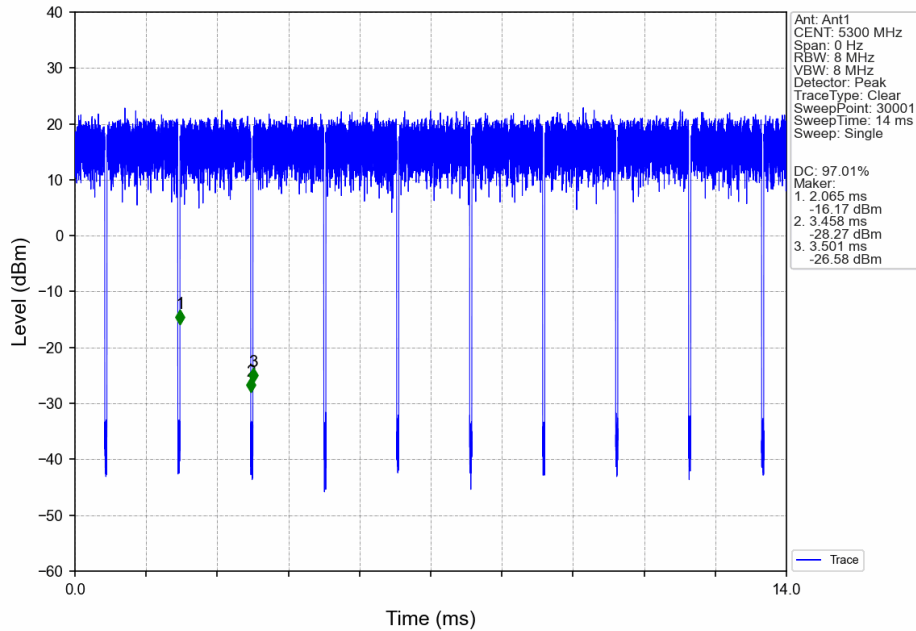
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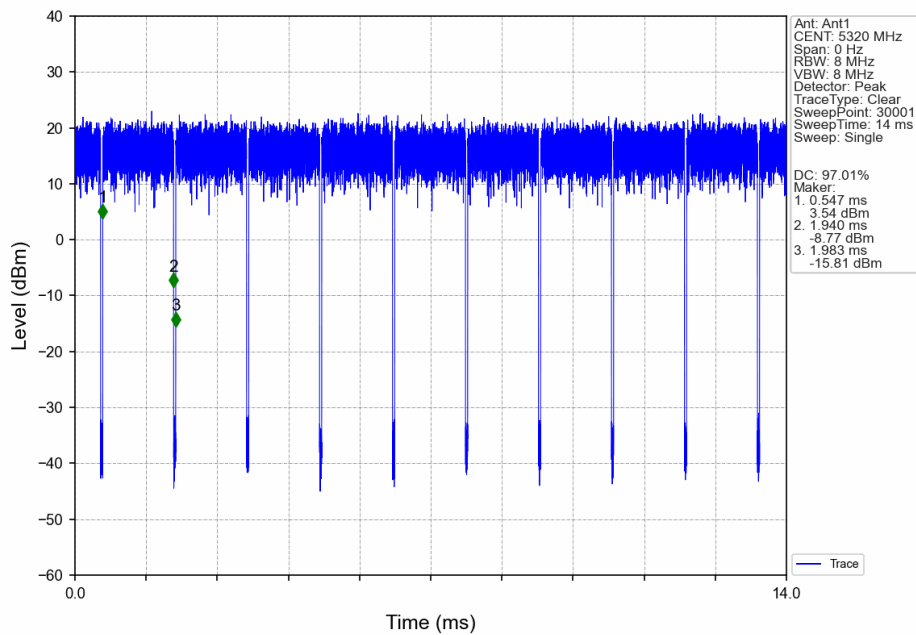
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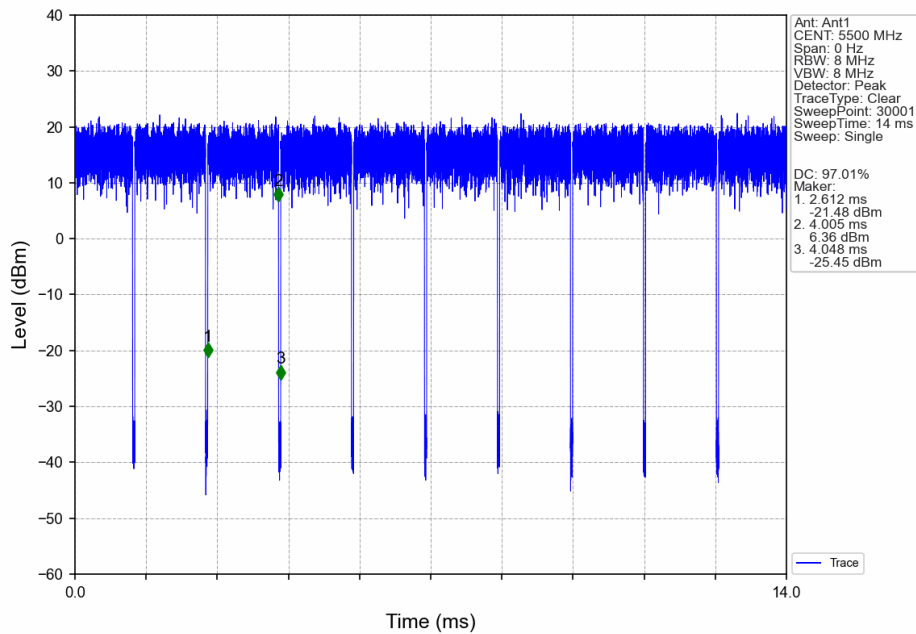
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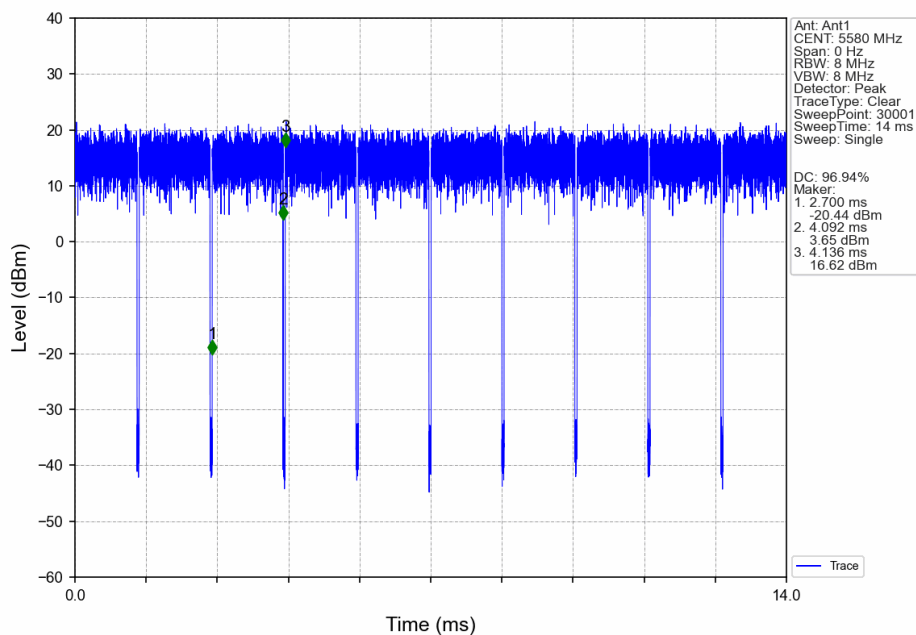
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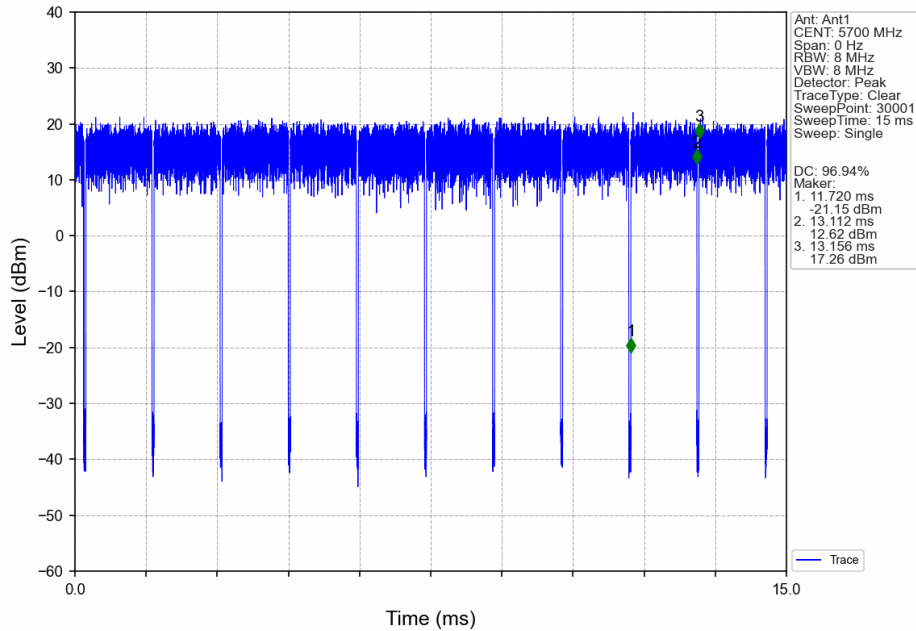
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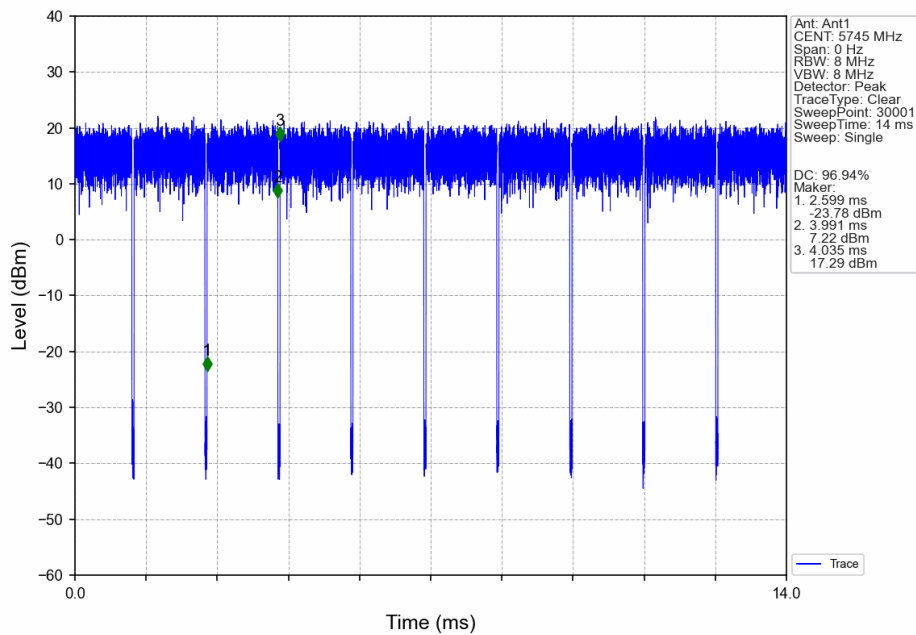
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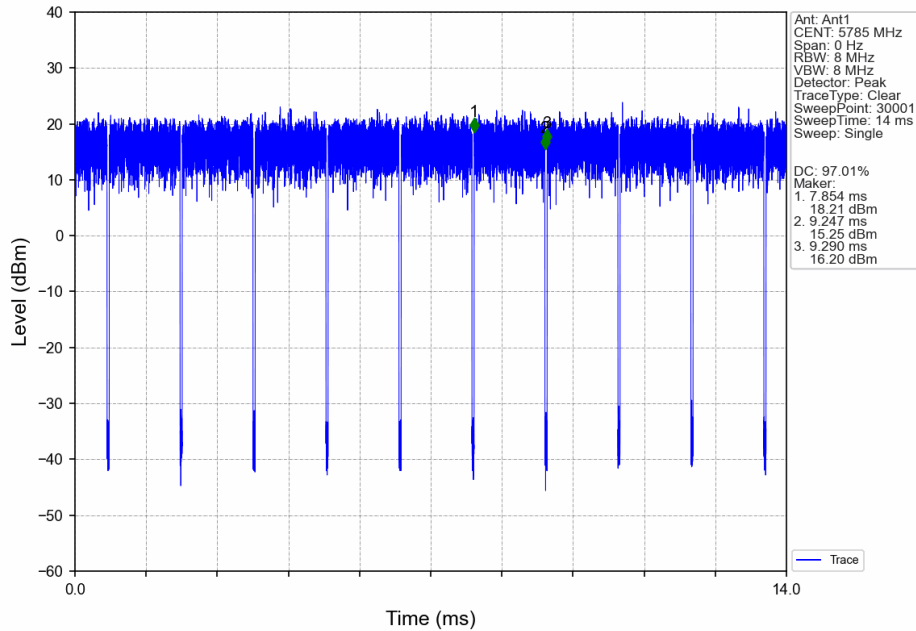
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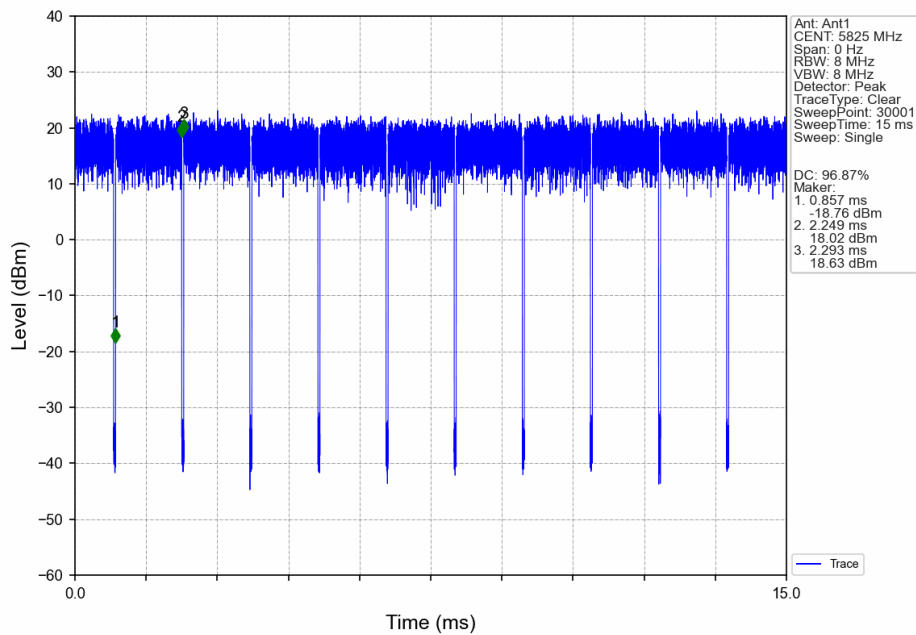
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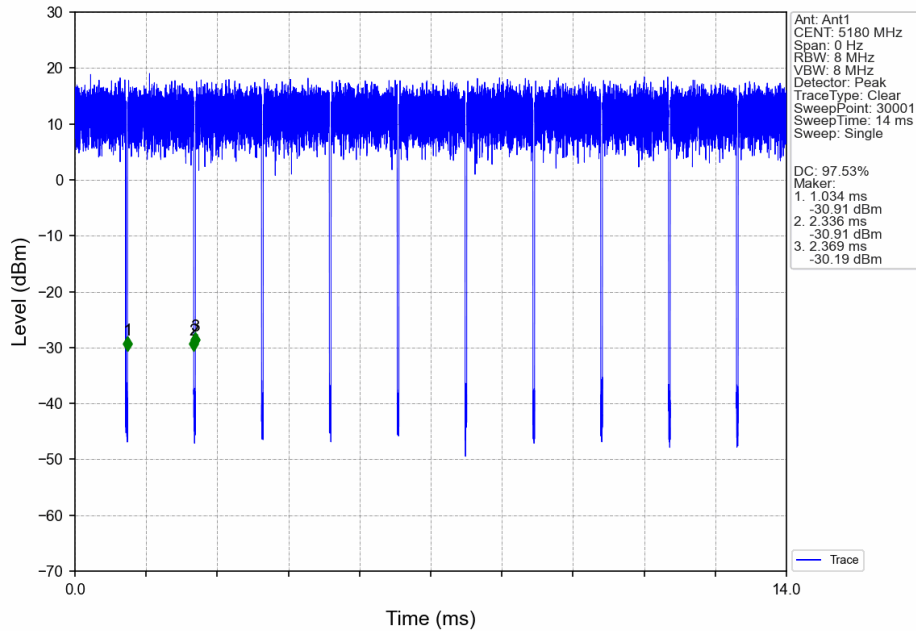
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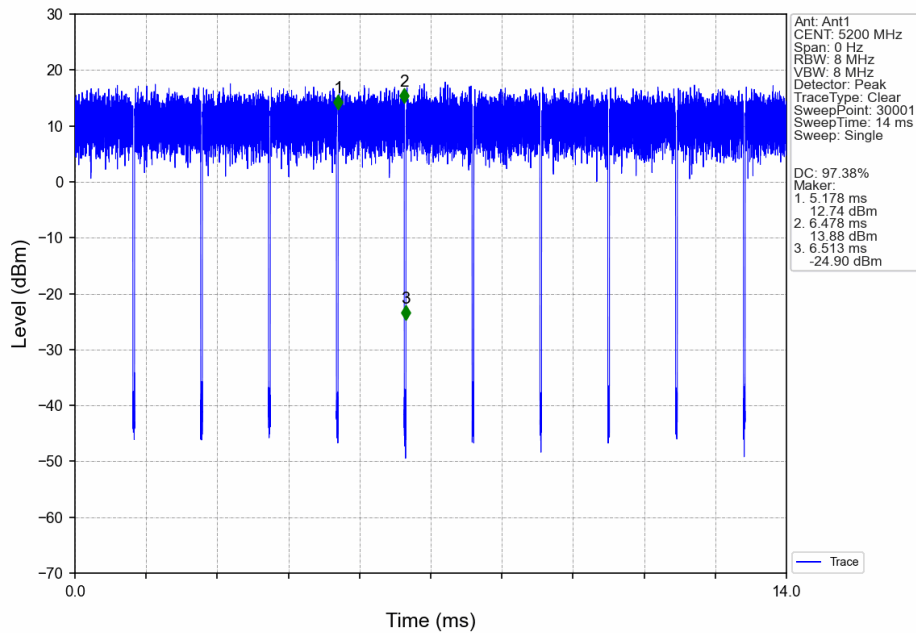
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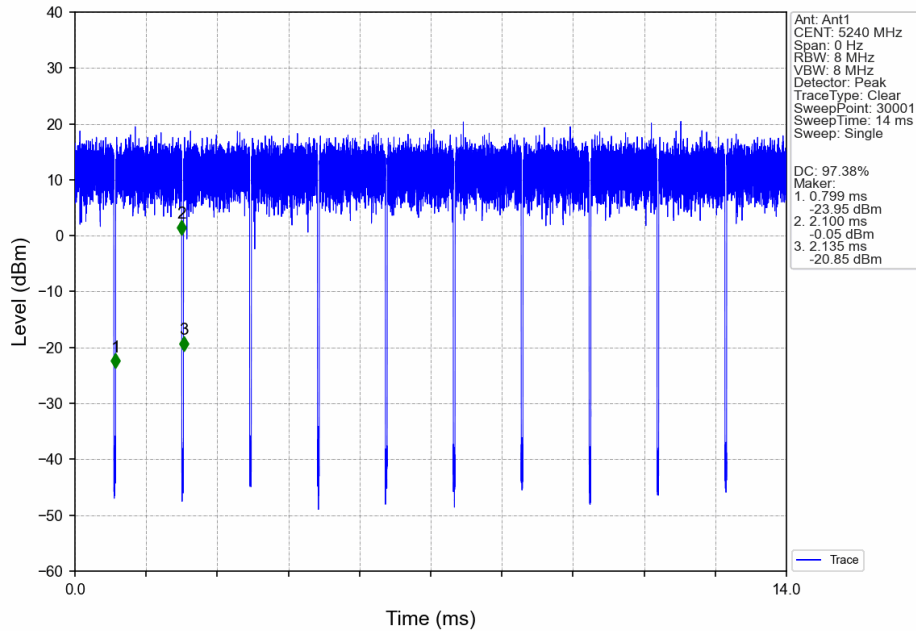
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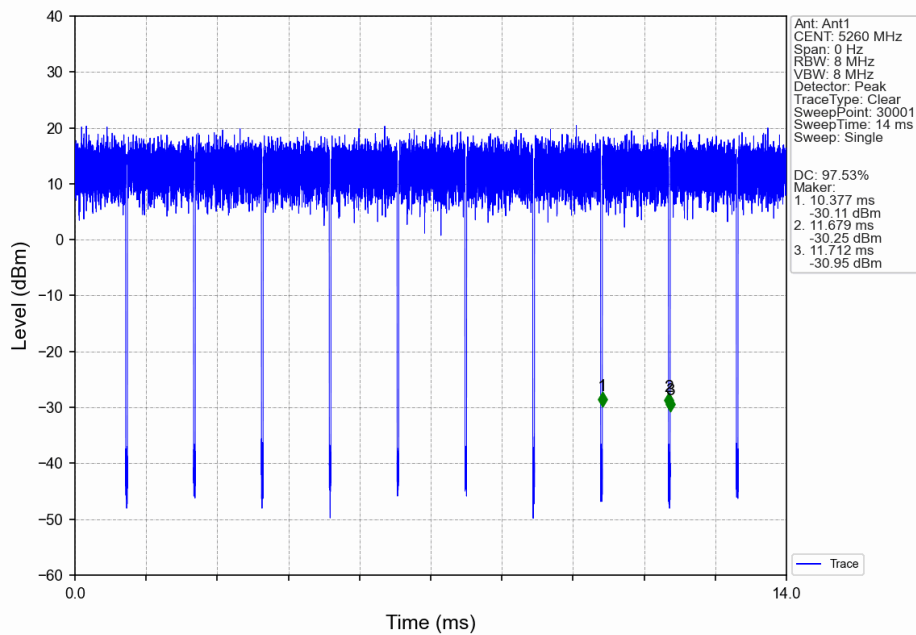
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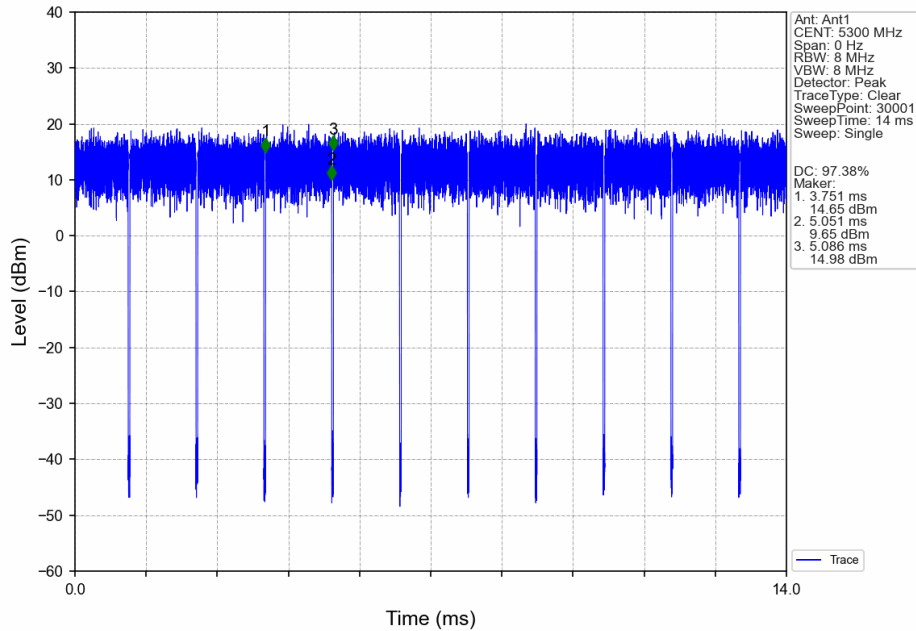
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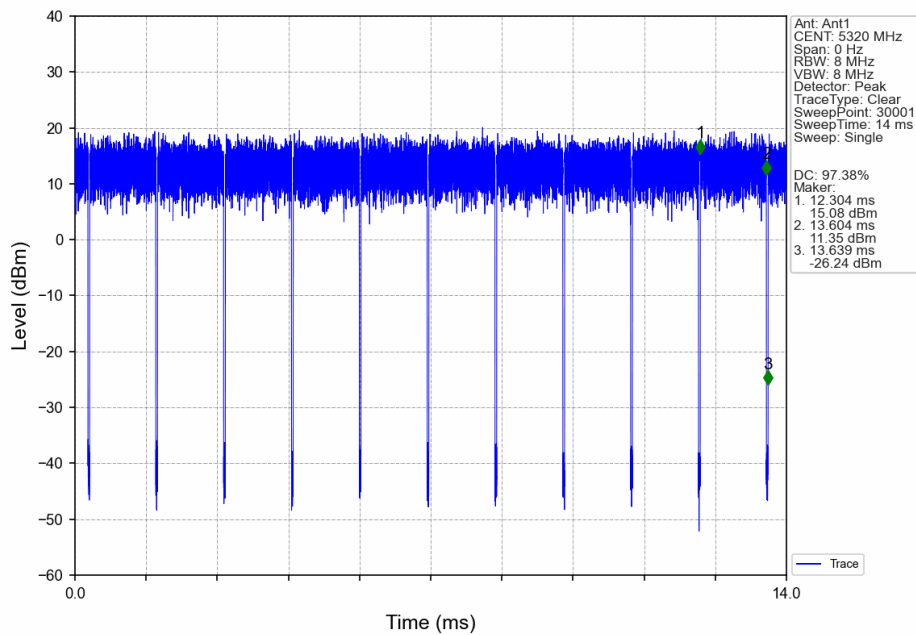
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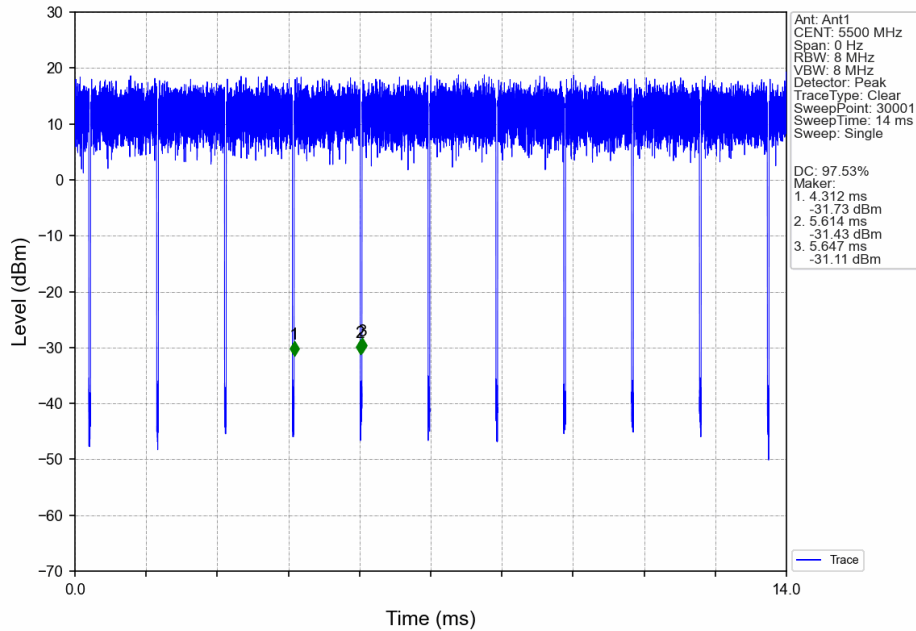
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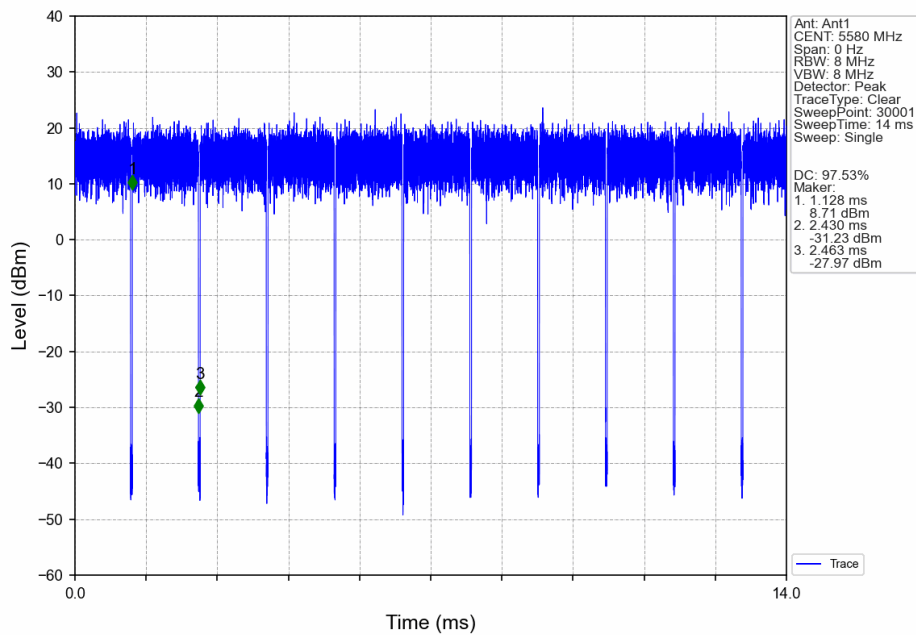
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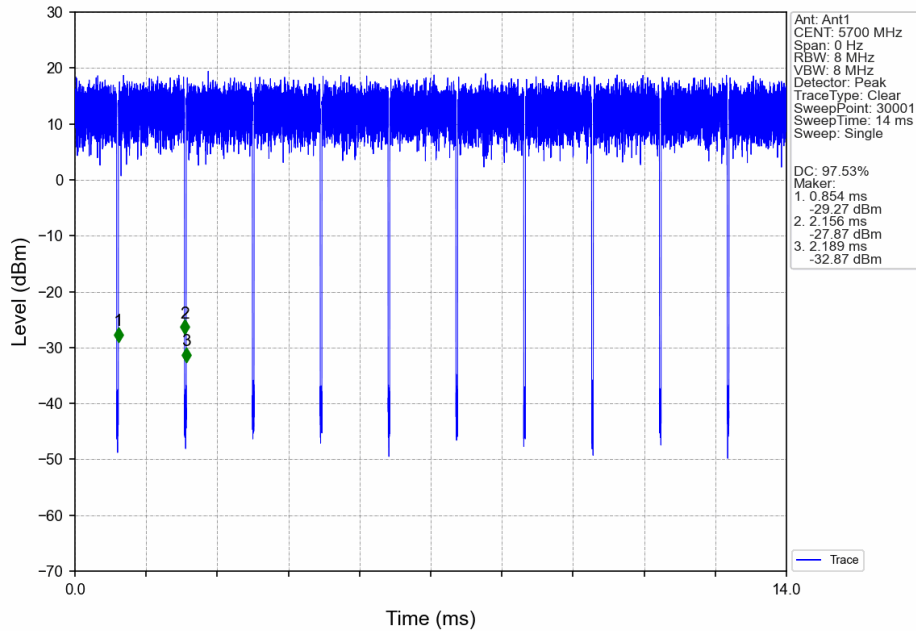
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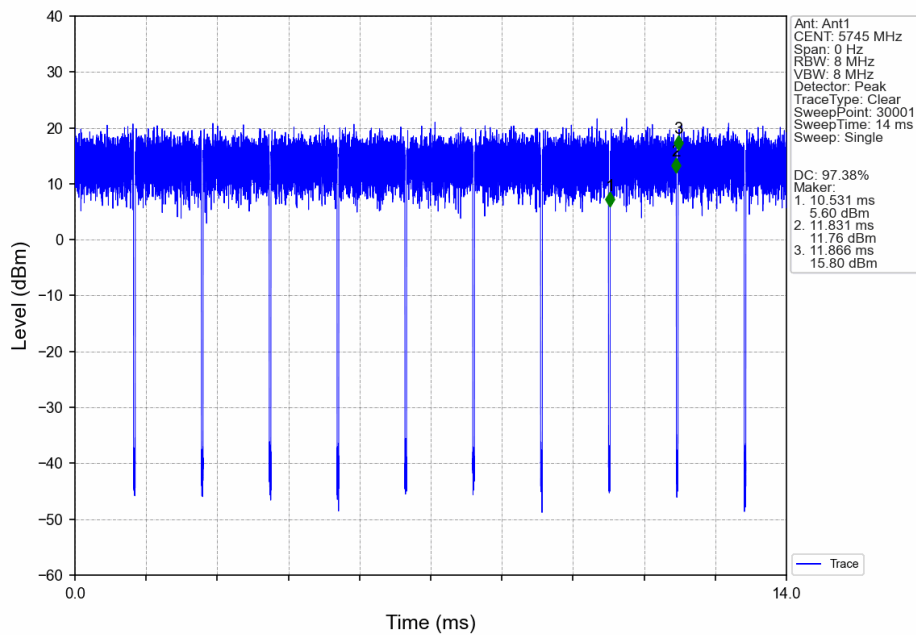
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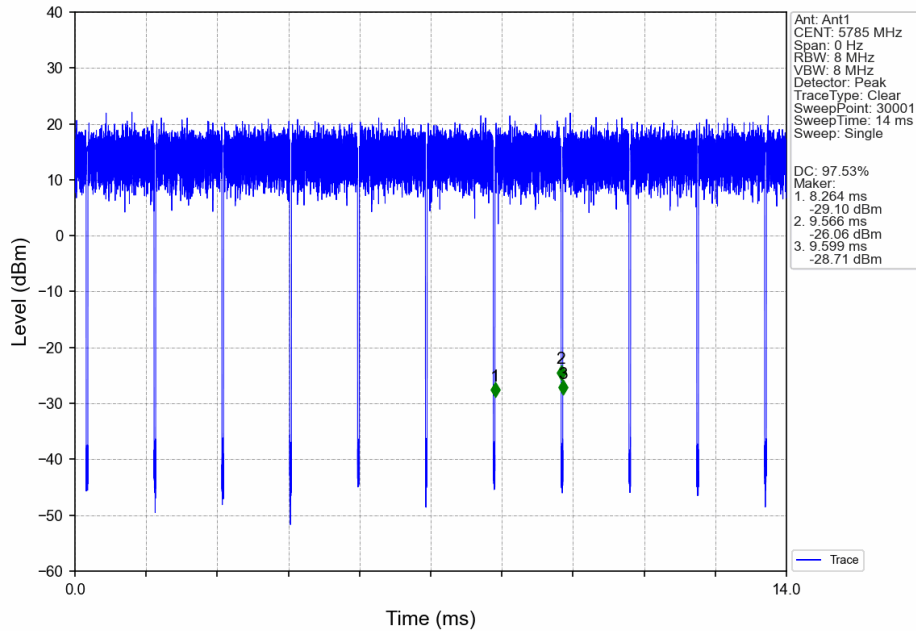
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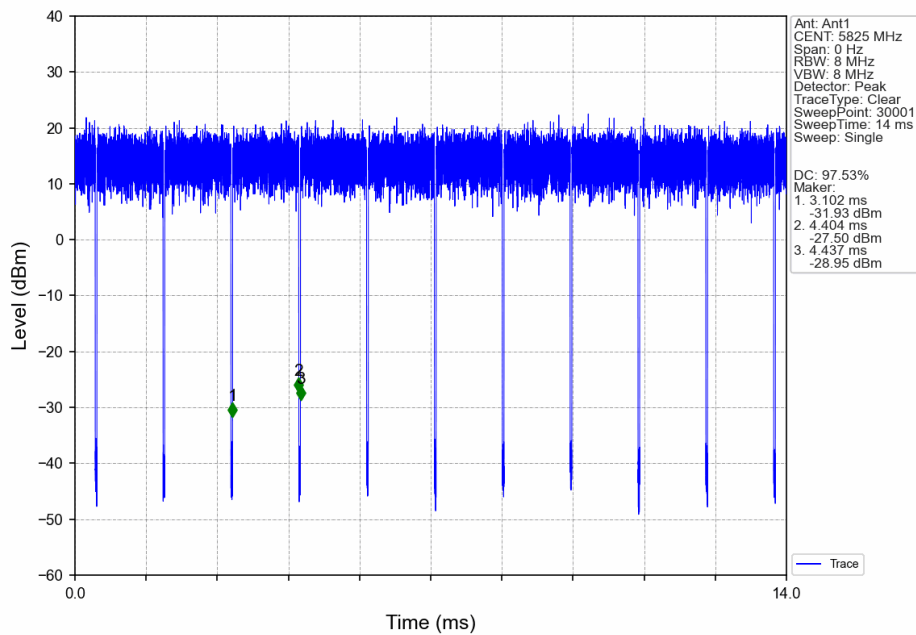
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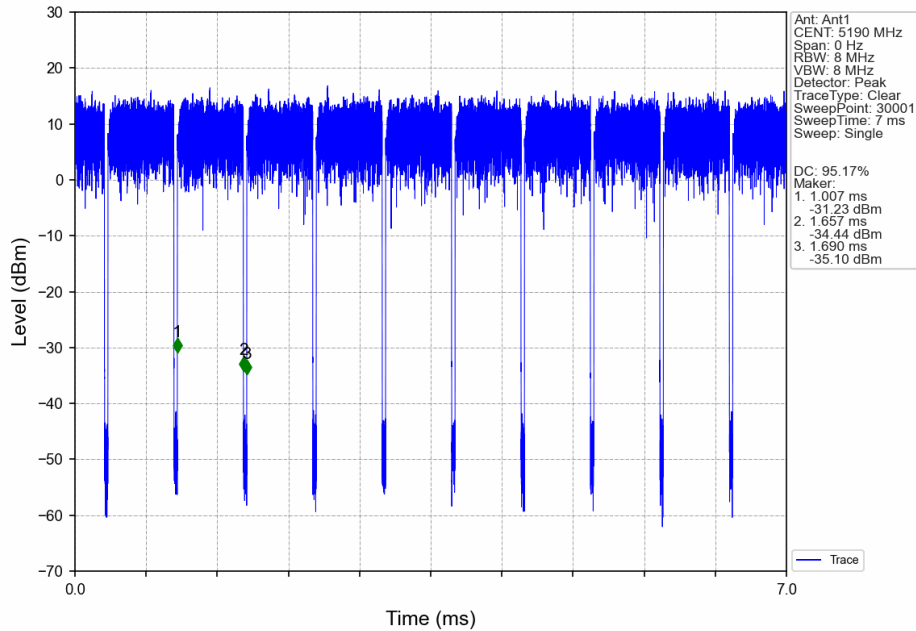
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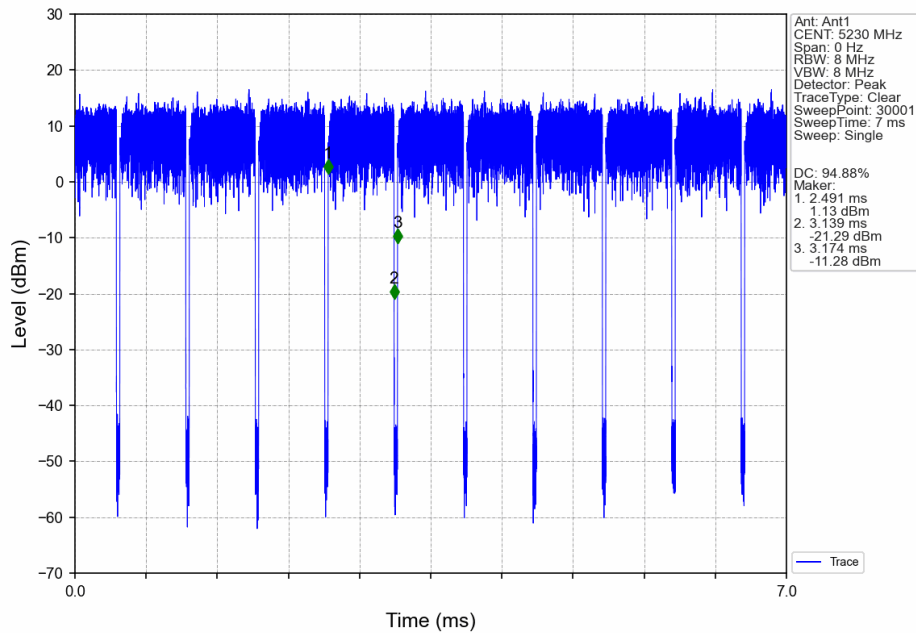
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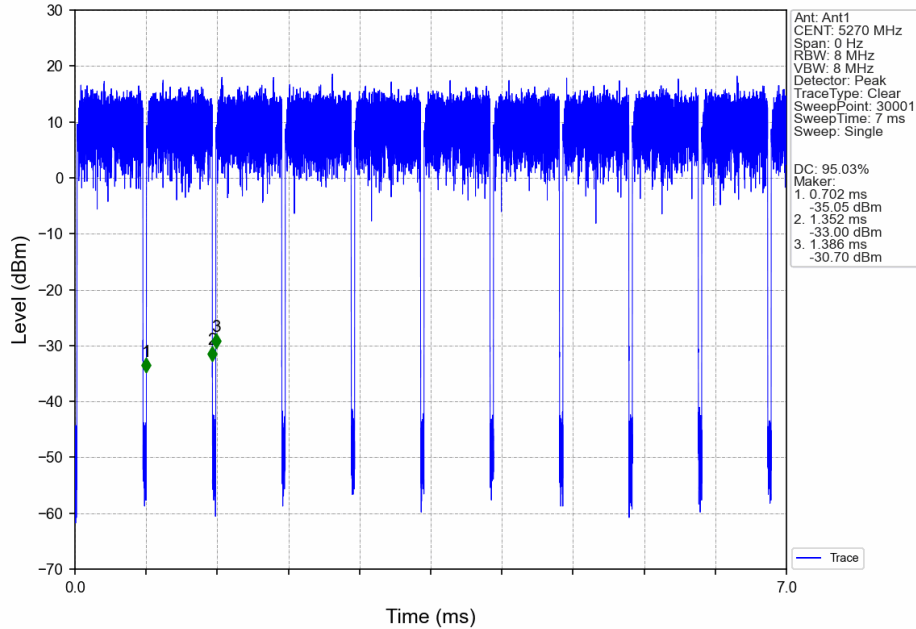
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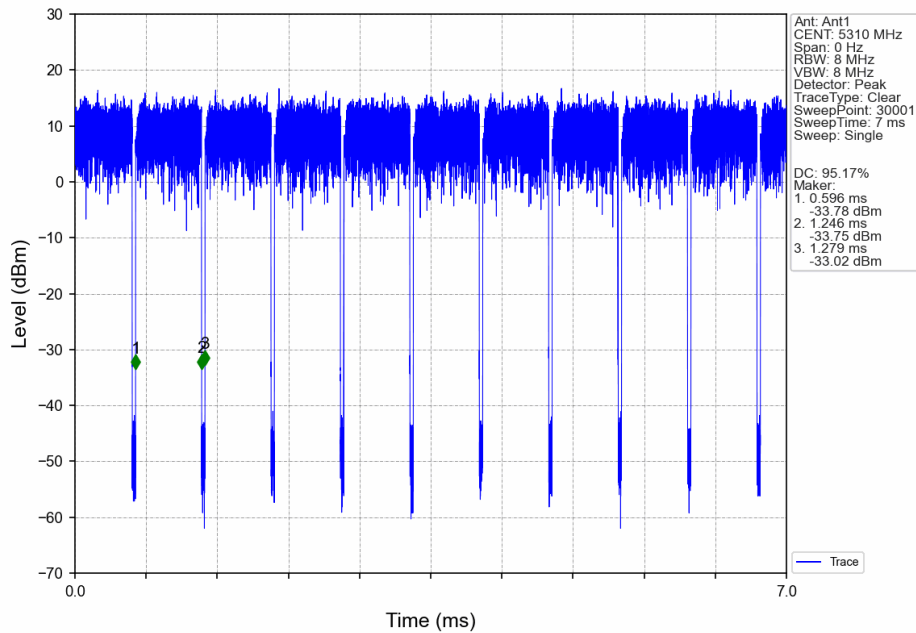
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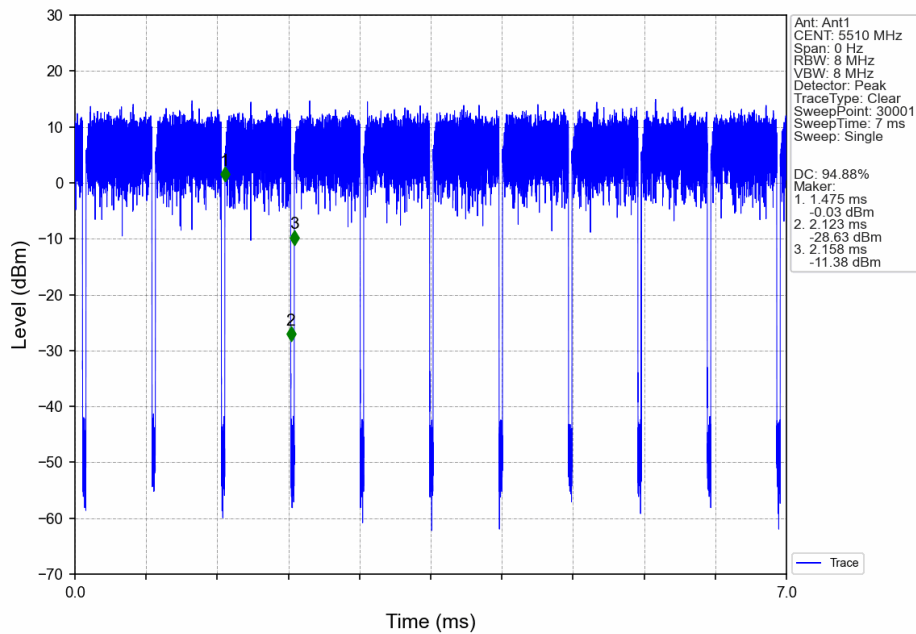
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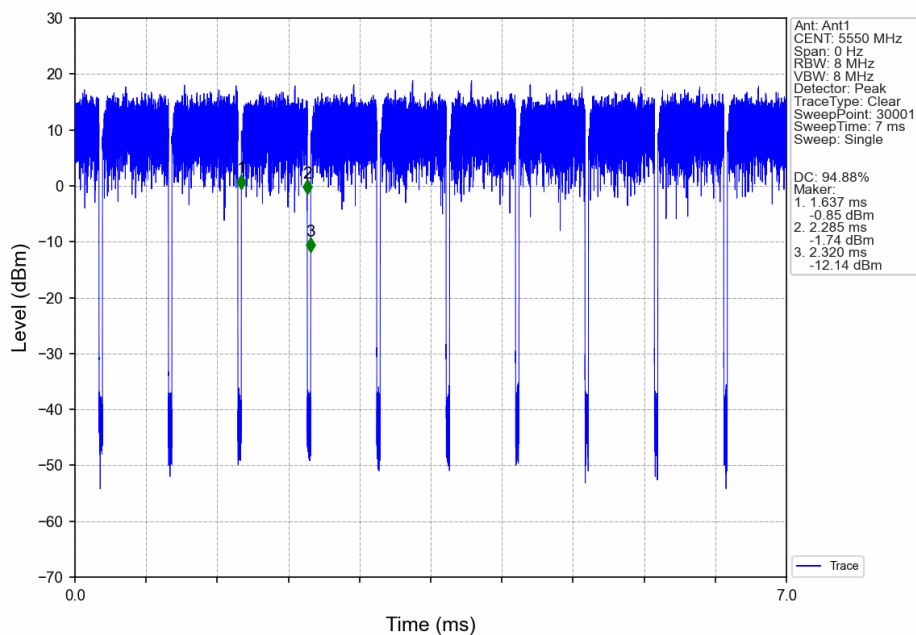
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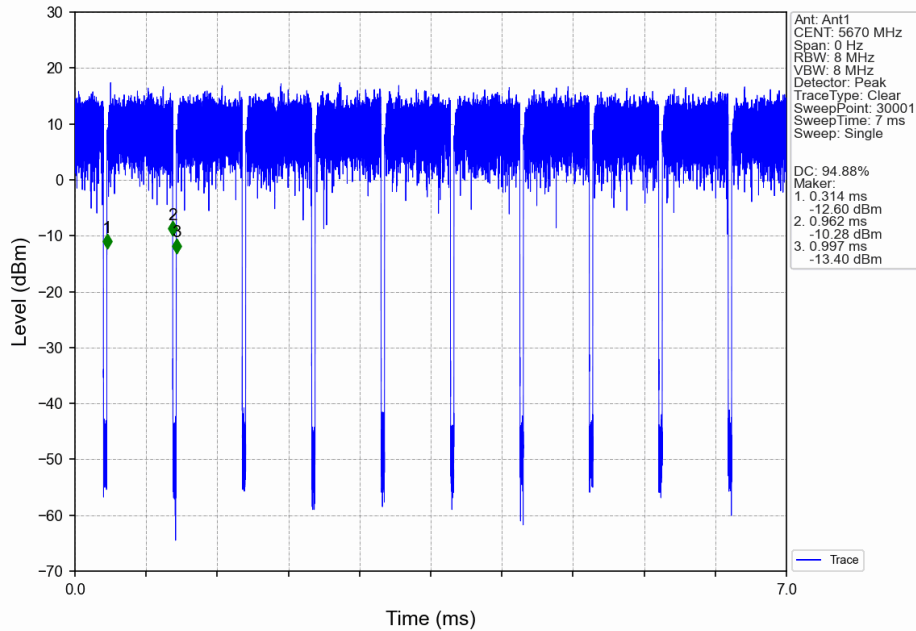
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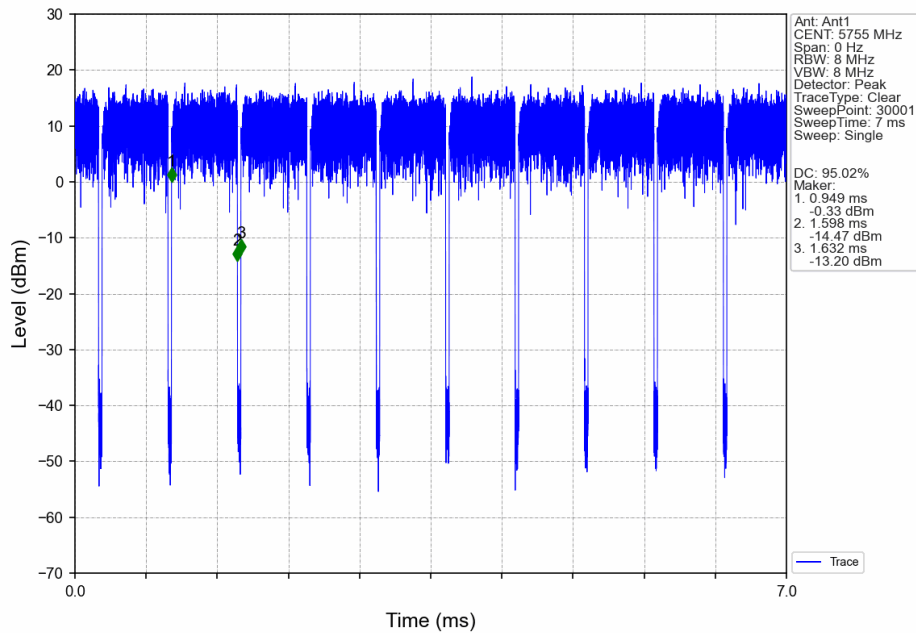
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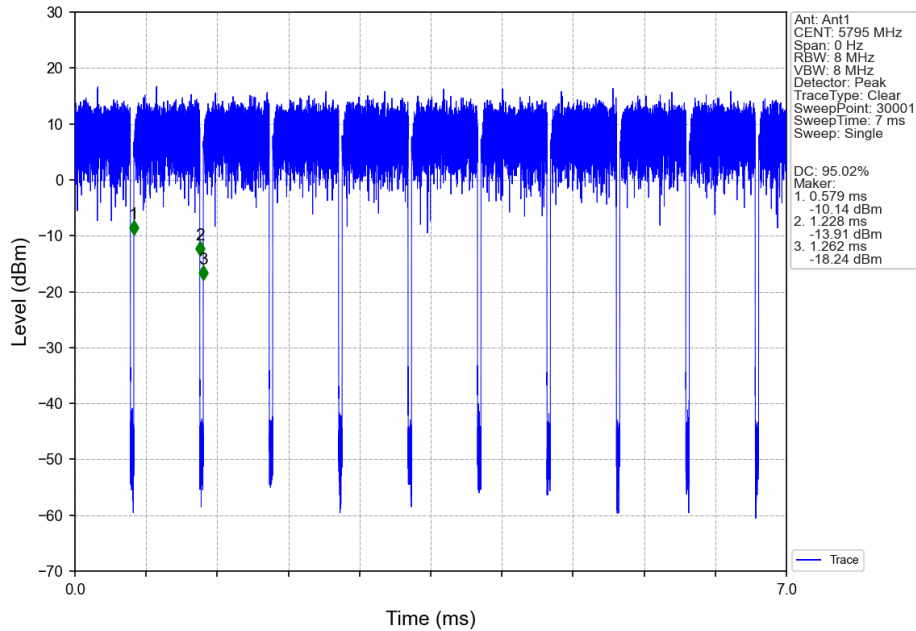
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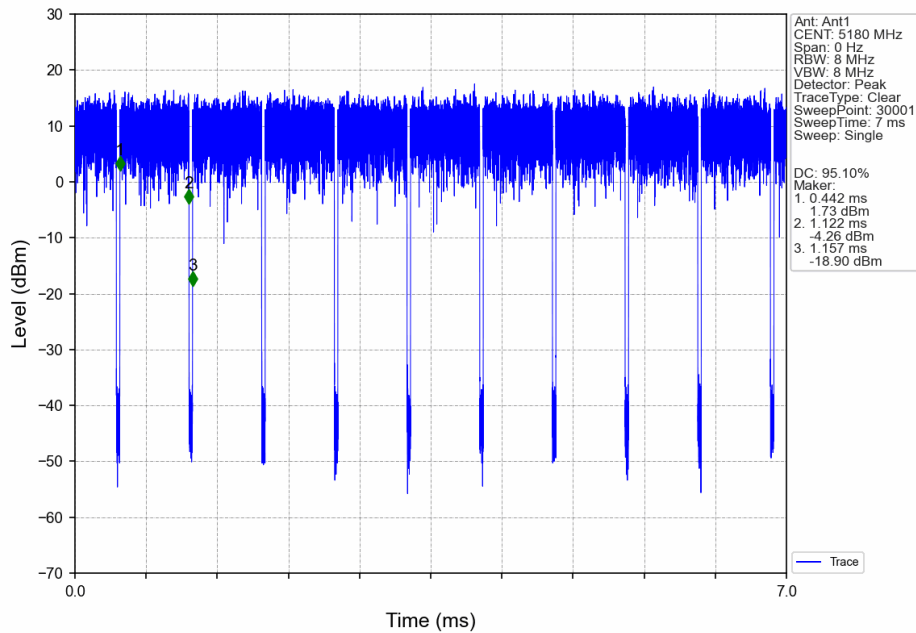
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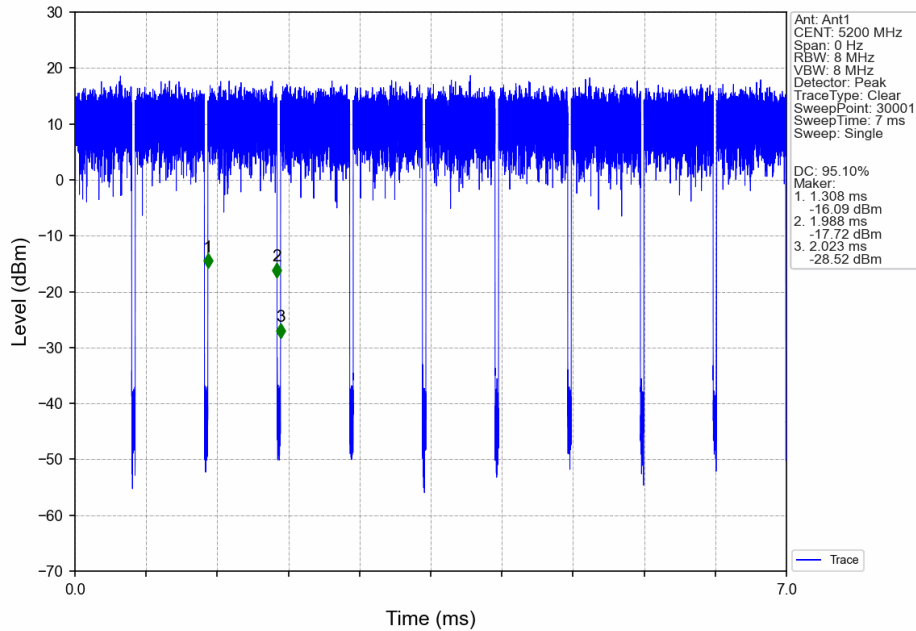
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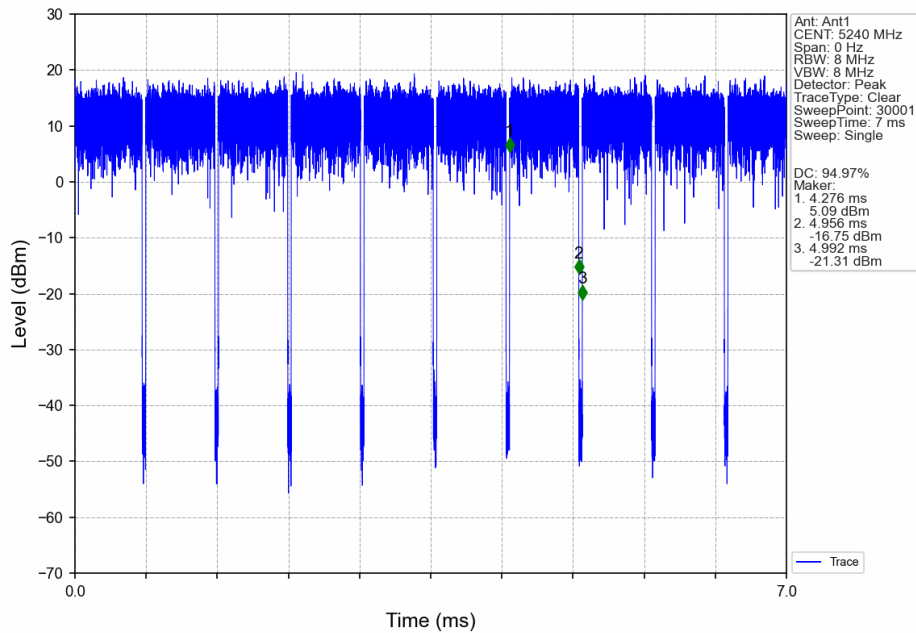
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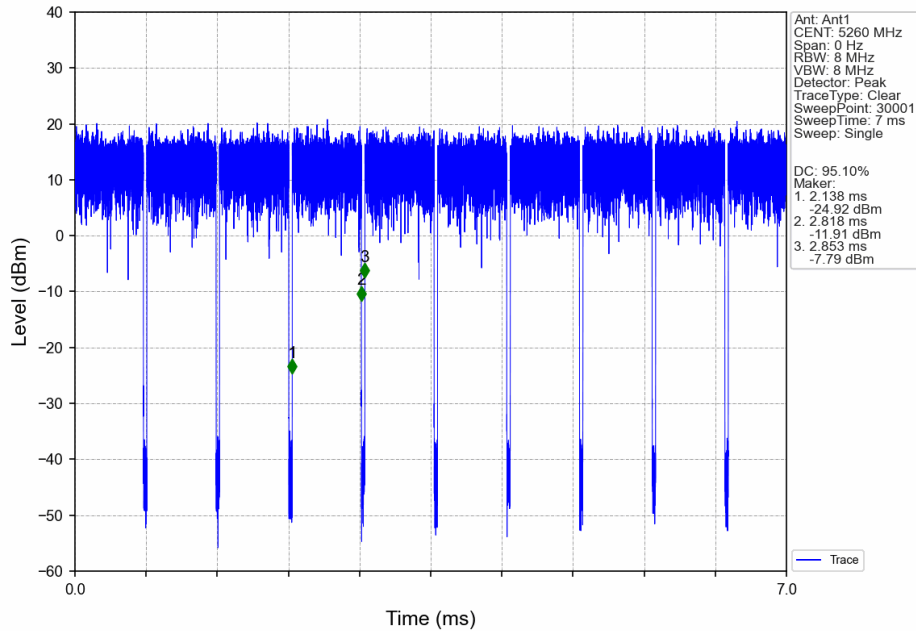
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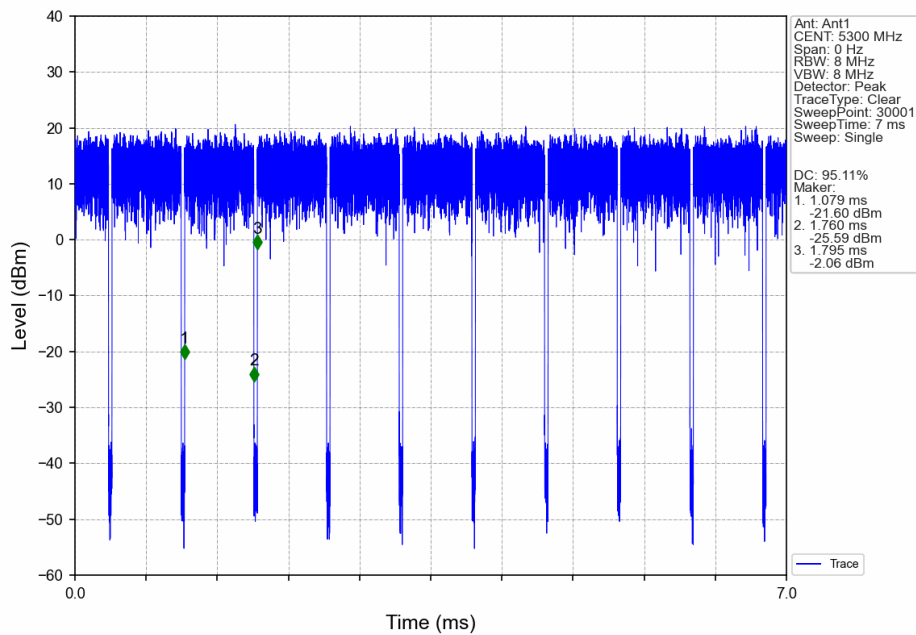
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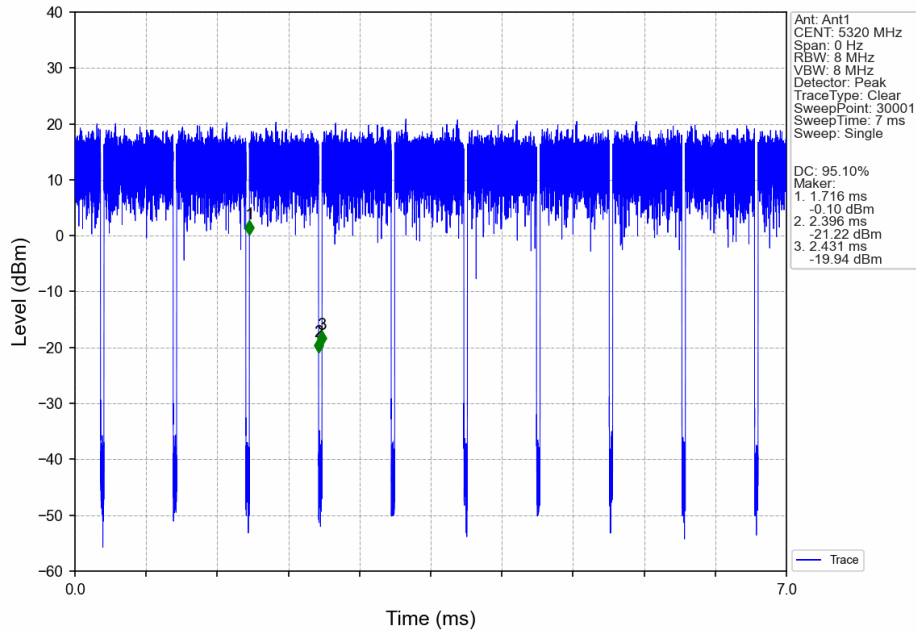
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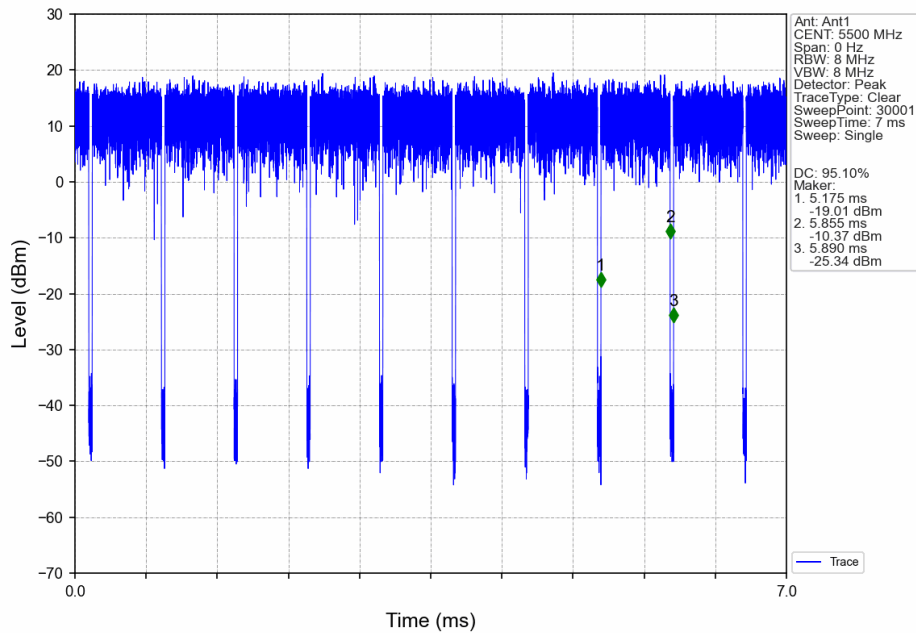
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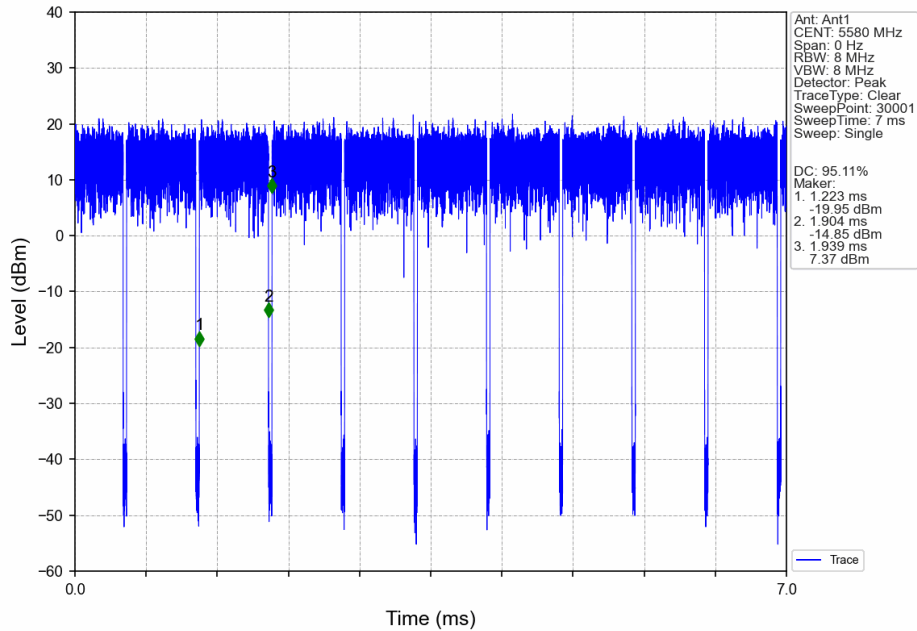
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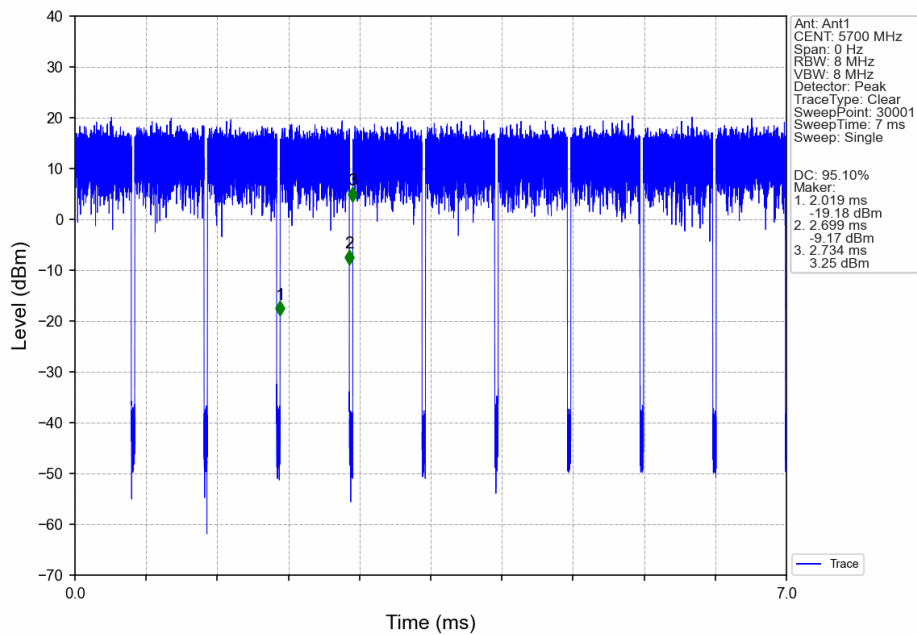
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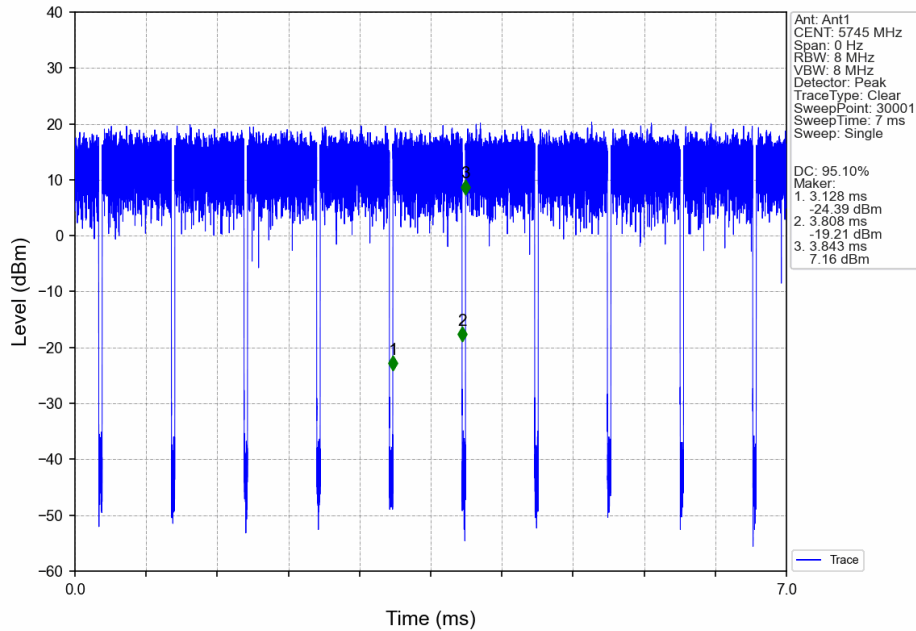
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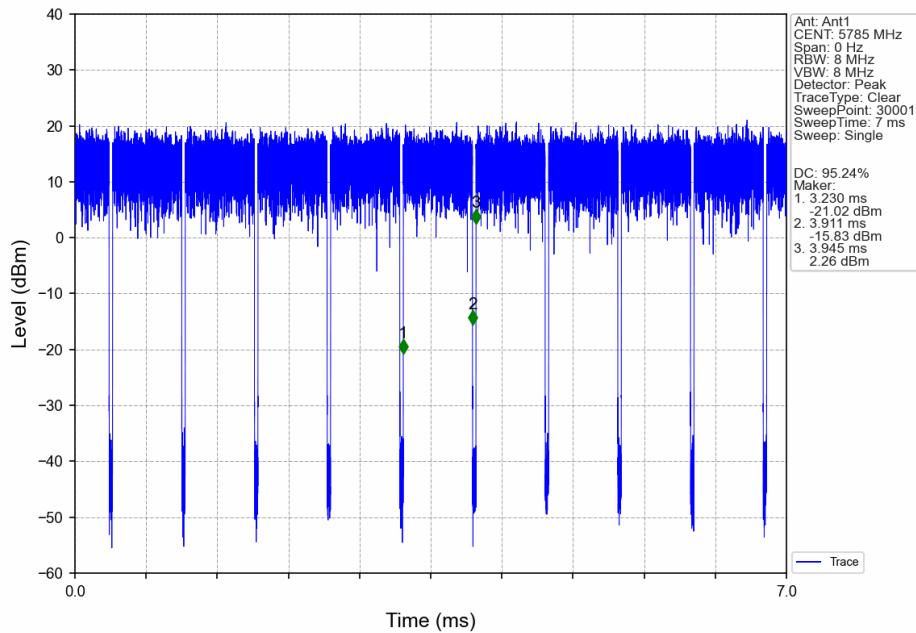
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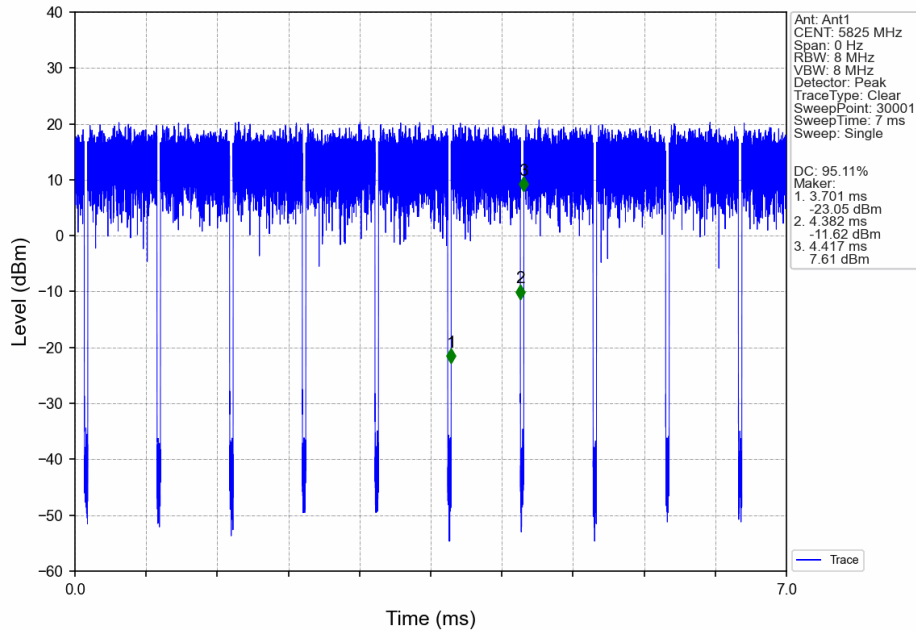
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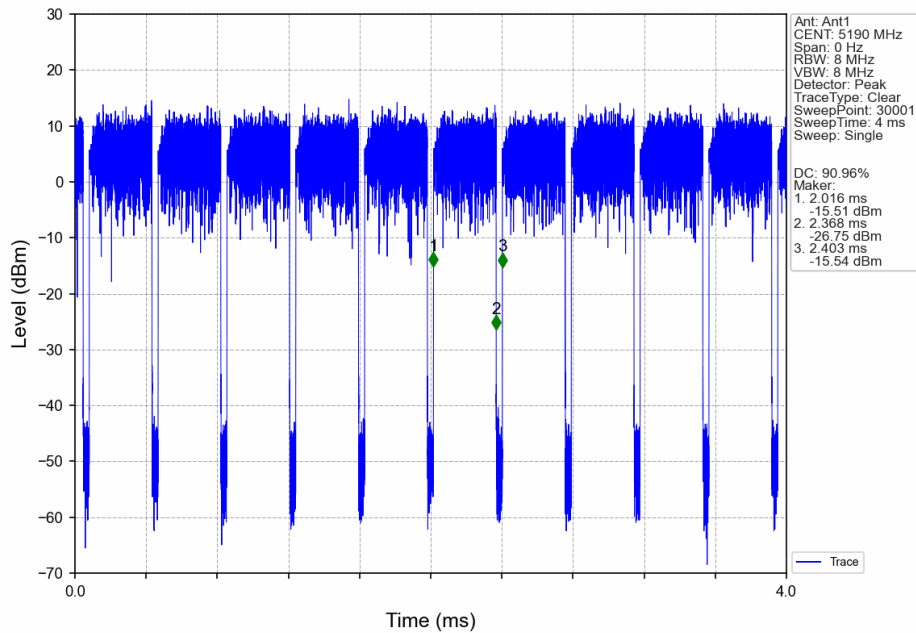
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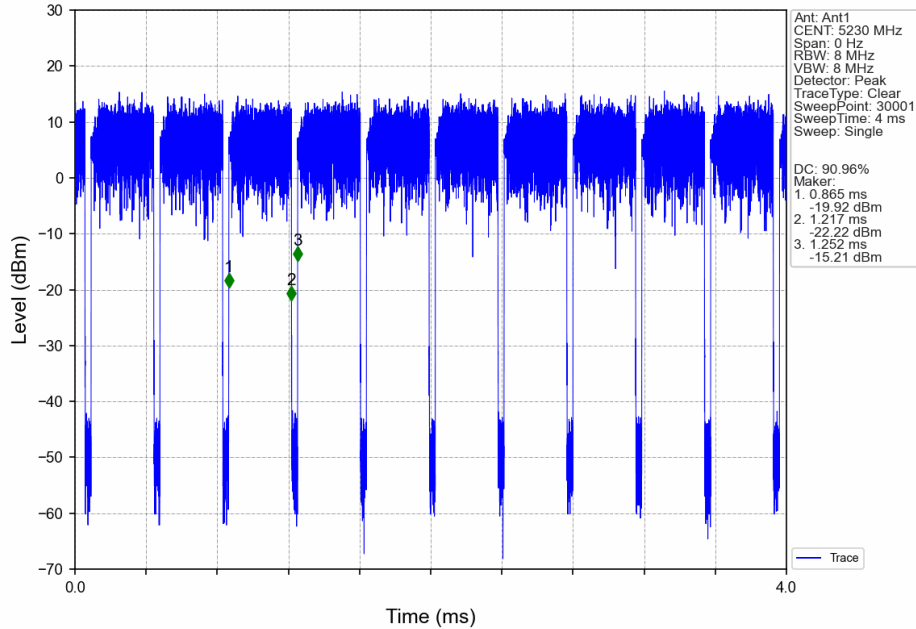
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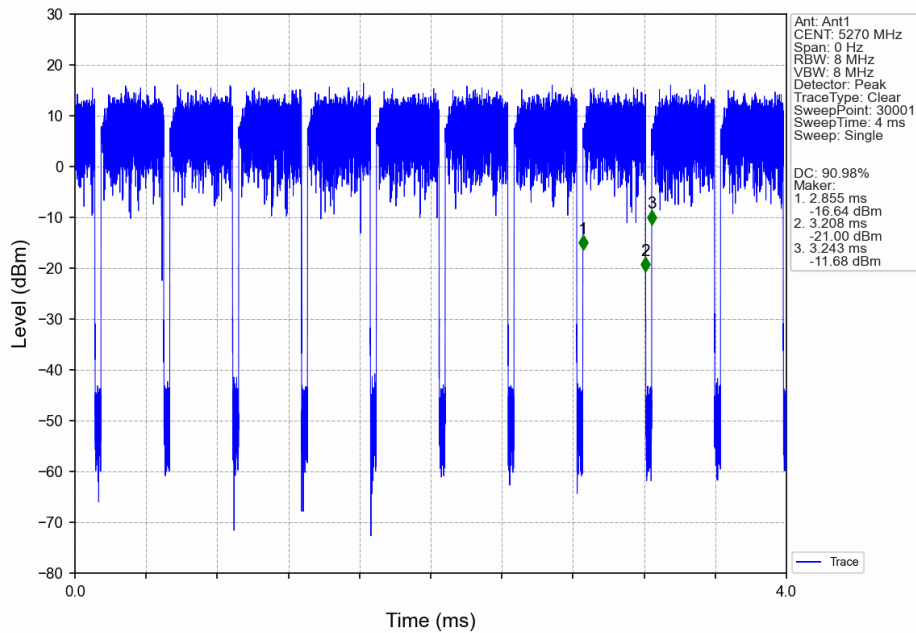
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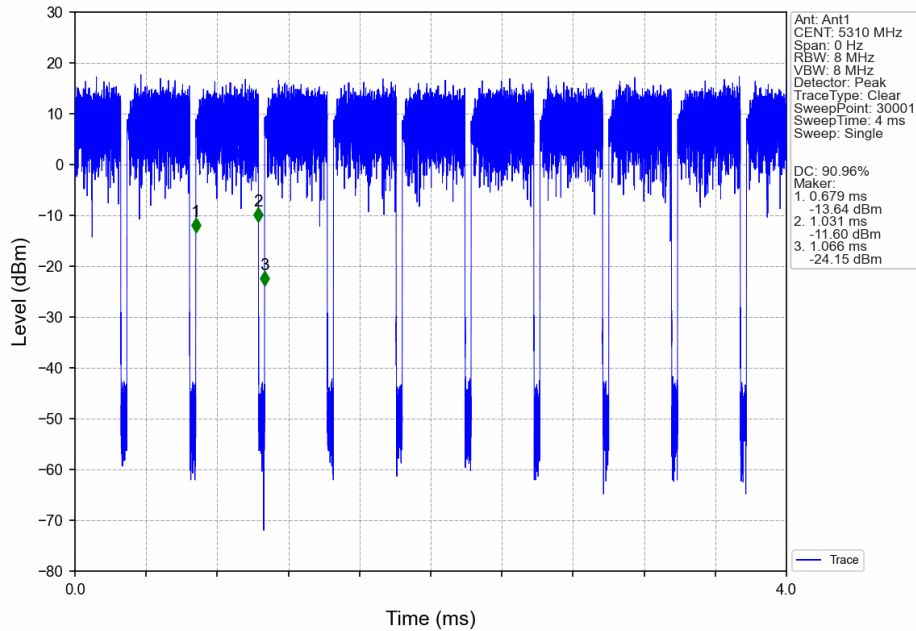
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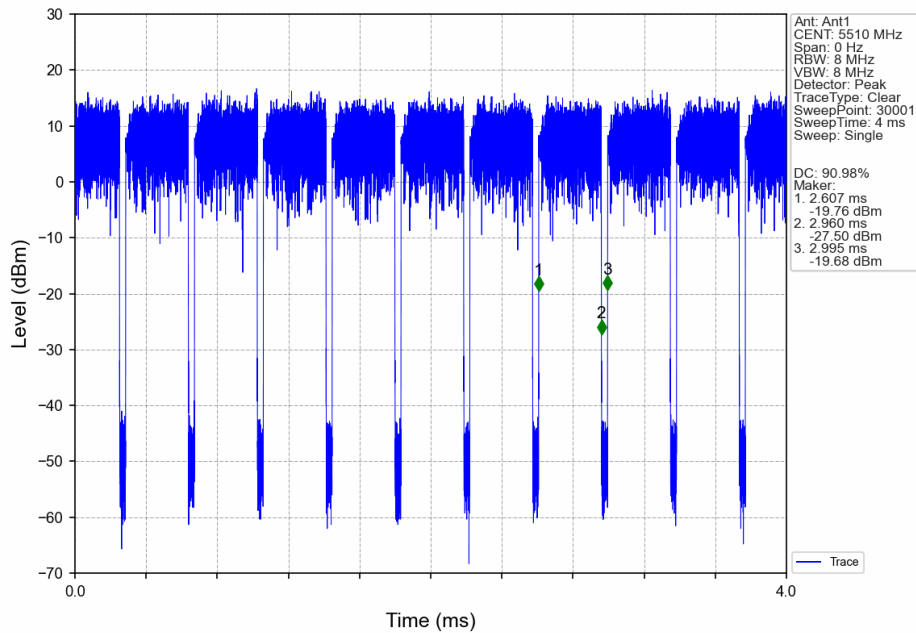
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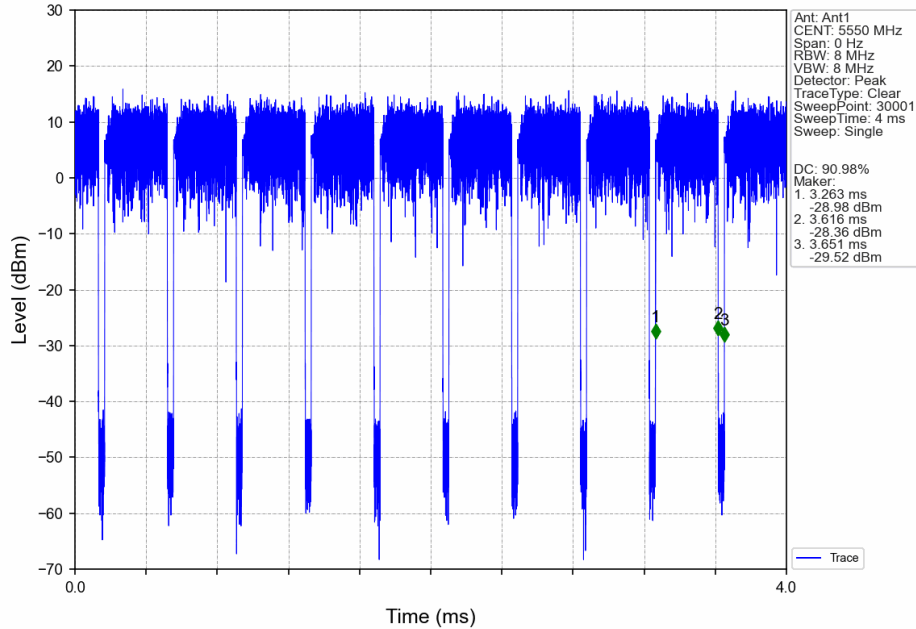
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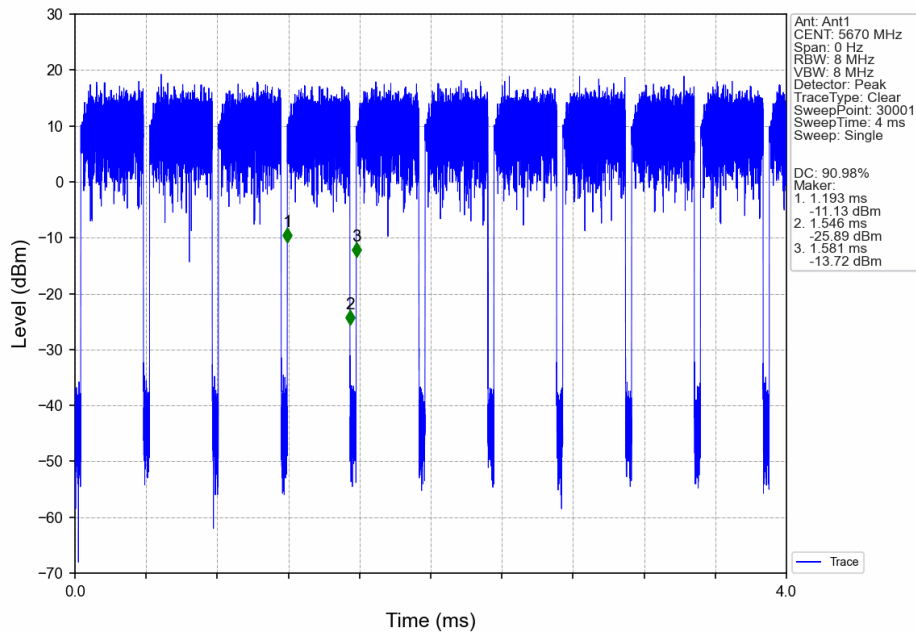
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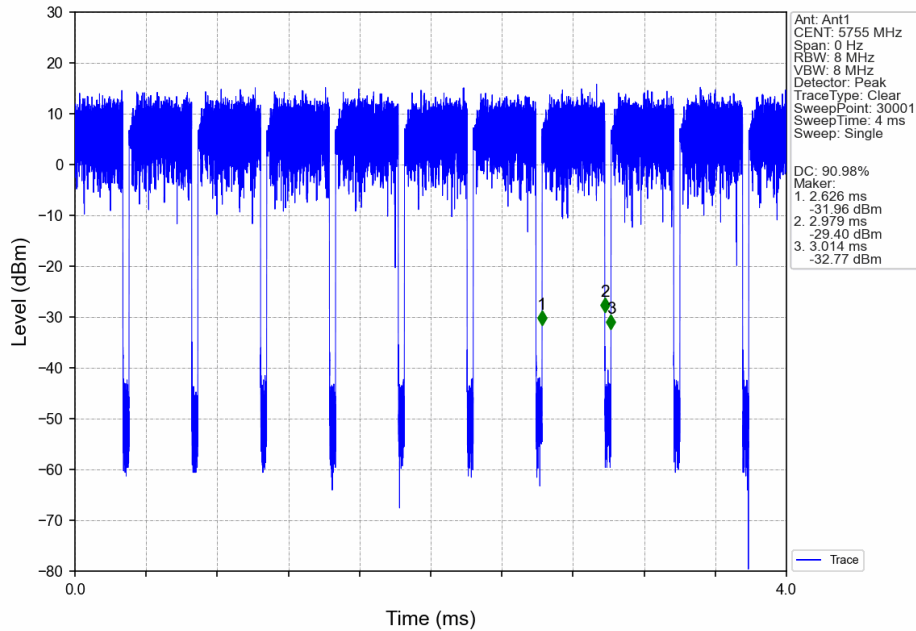
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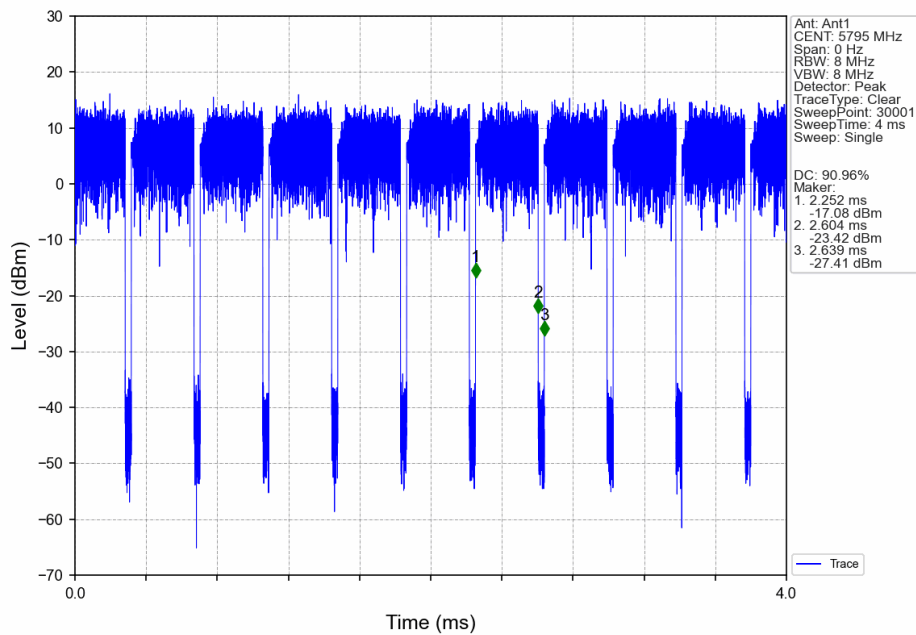
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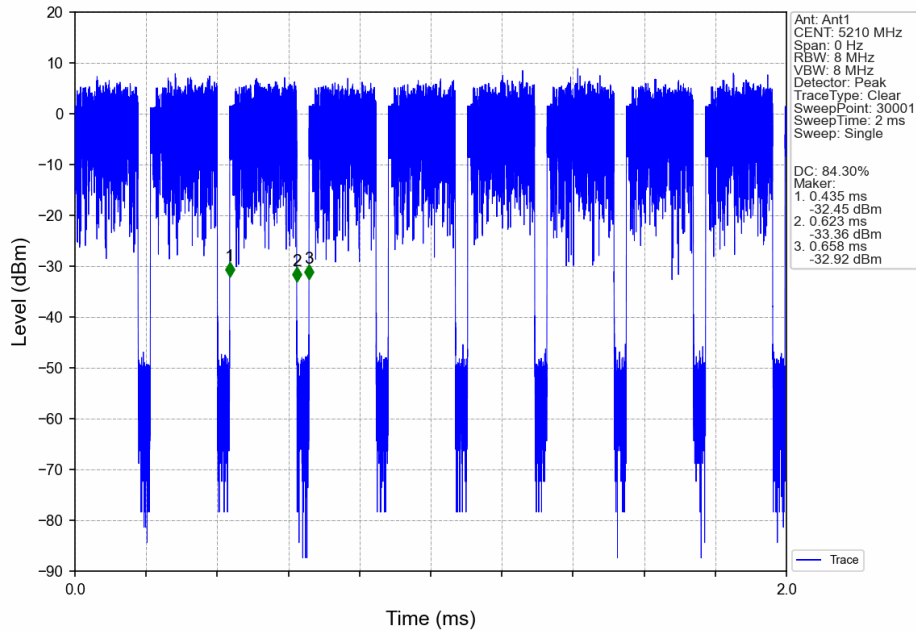
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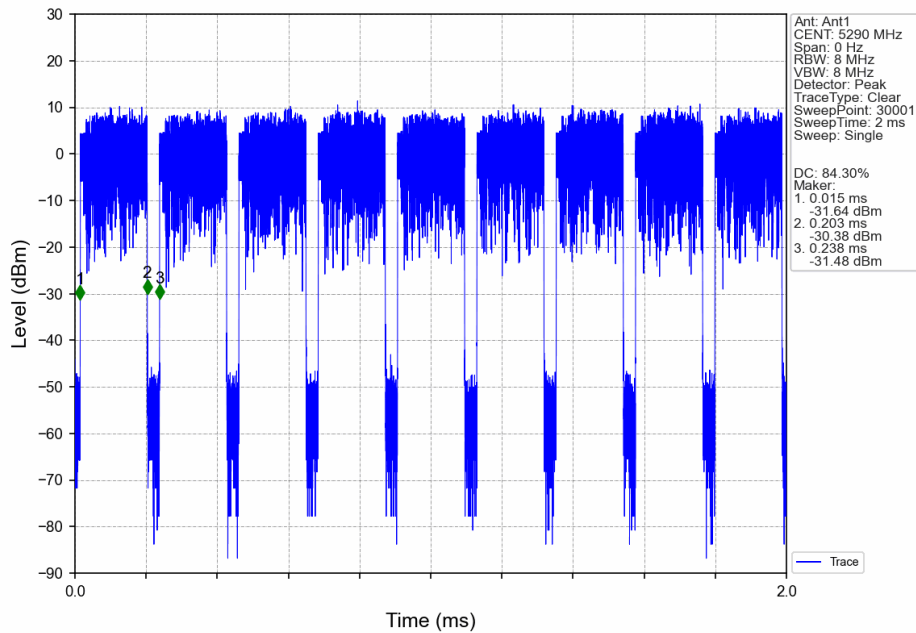
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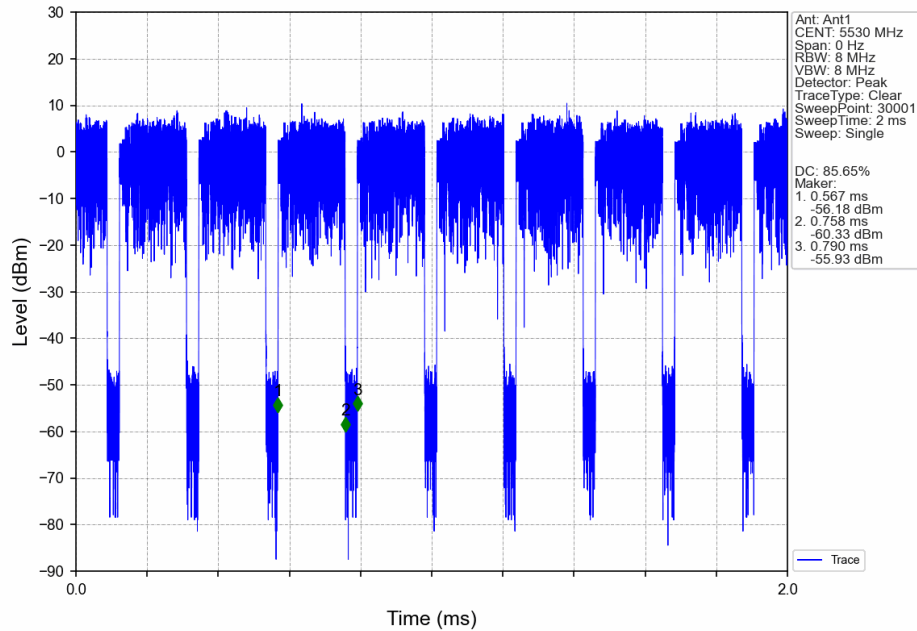
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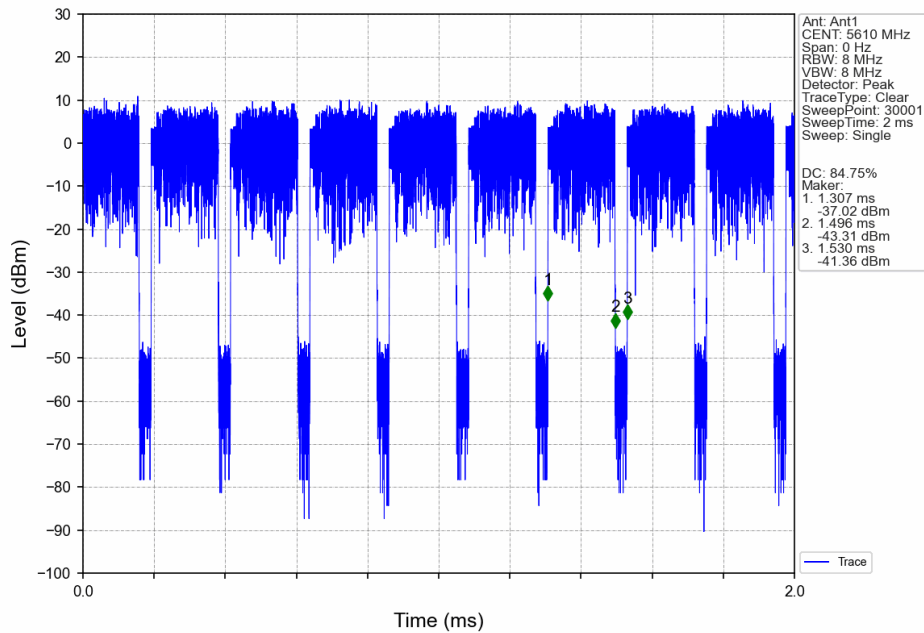
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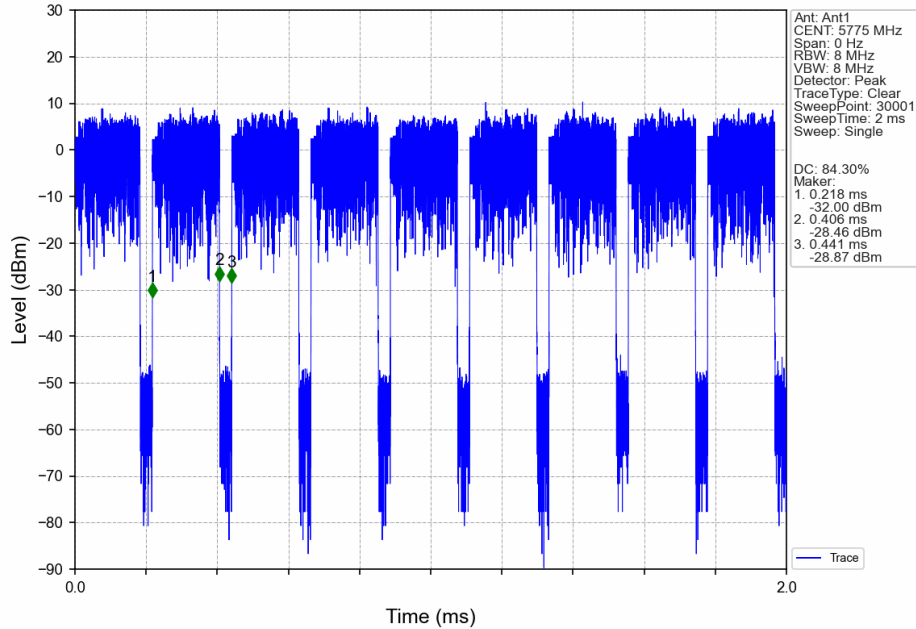
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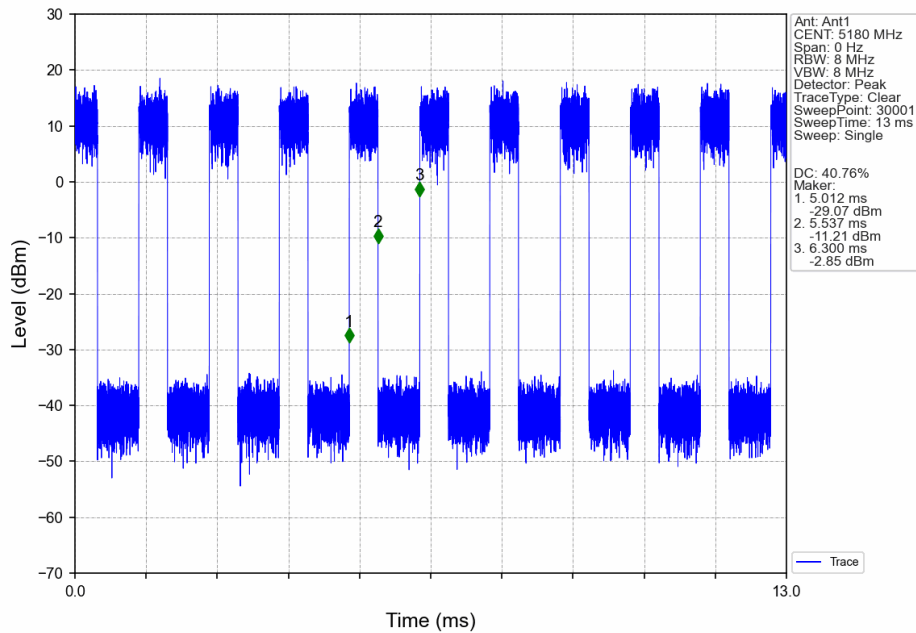
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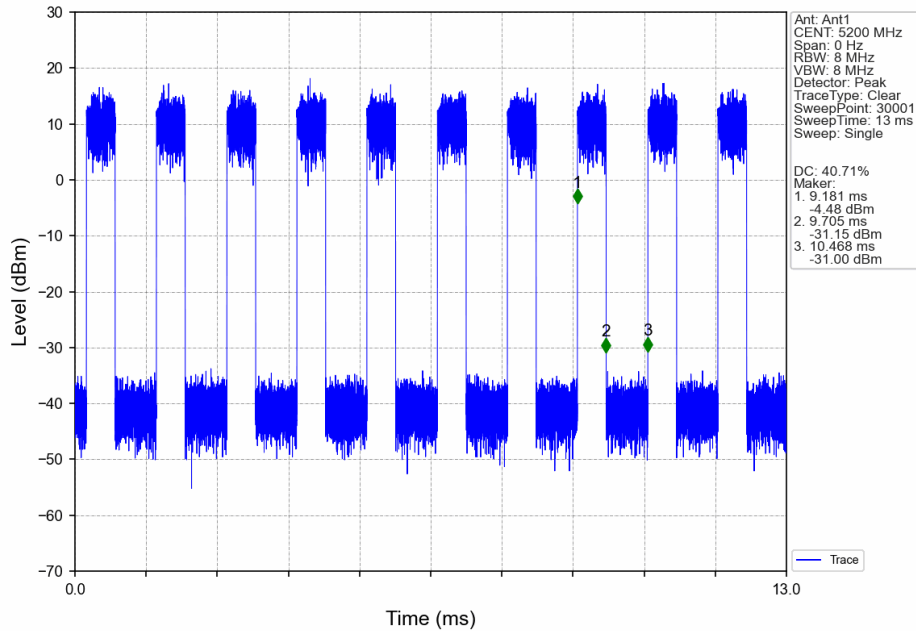
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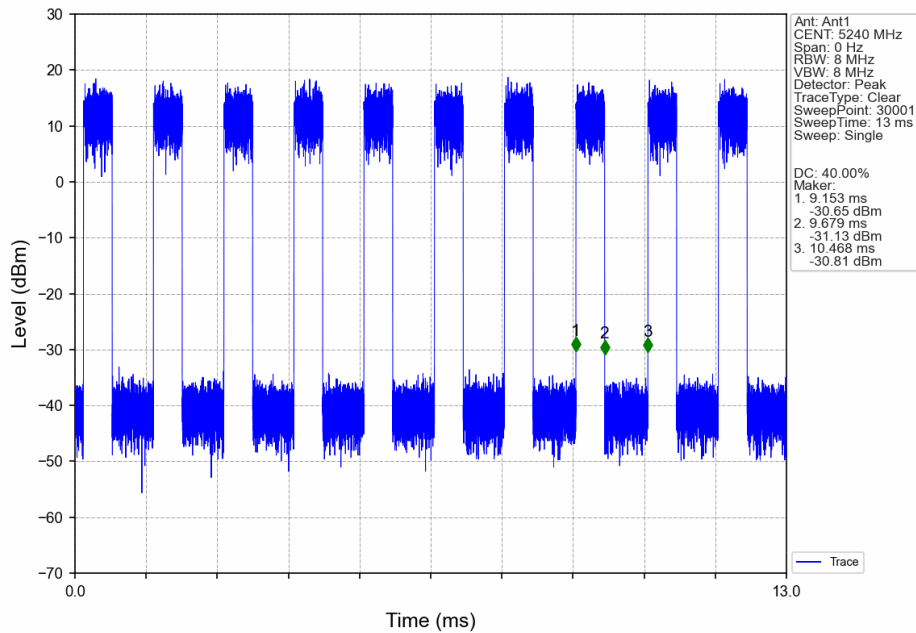
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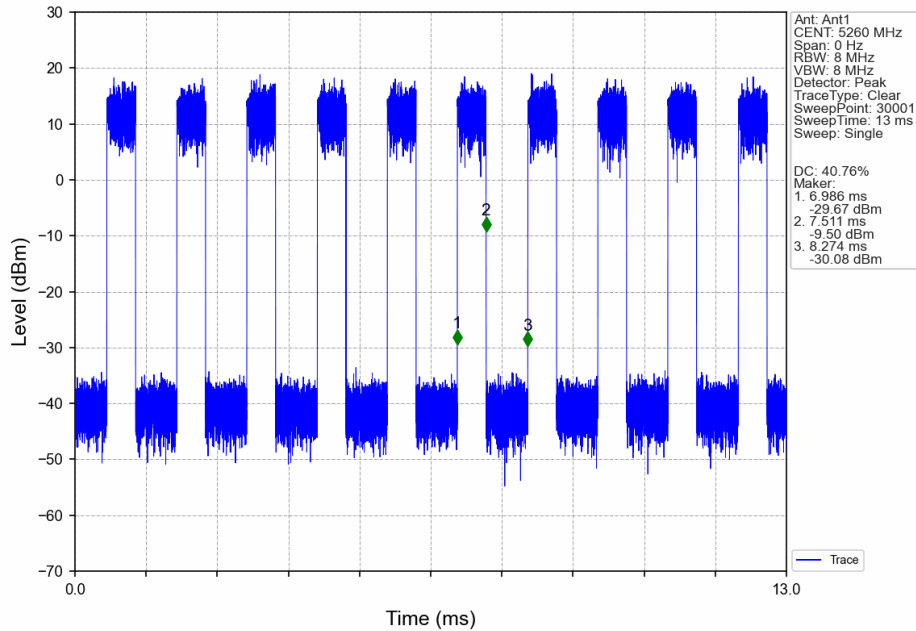
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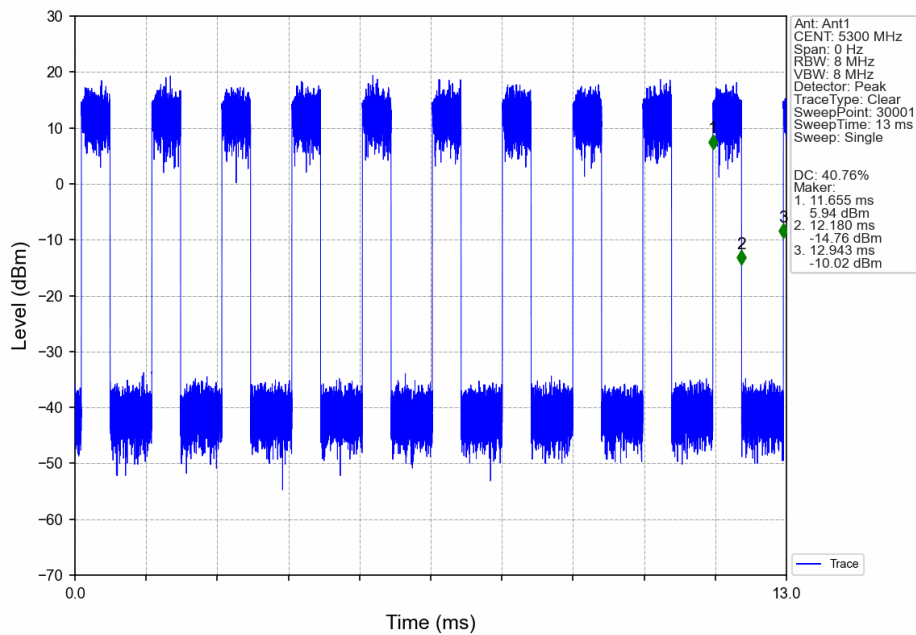
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802.11ax(HEW20)_LCH_5260MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW20)_MCH_5300MHz_RU242_Left_Ant1_NTNV



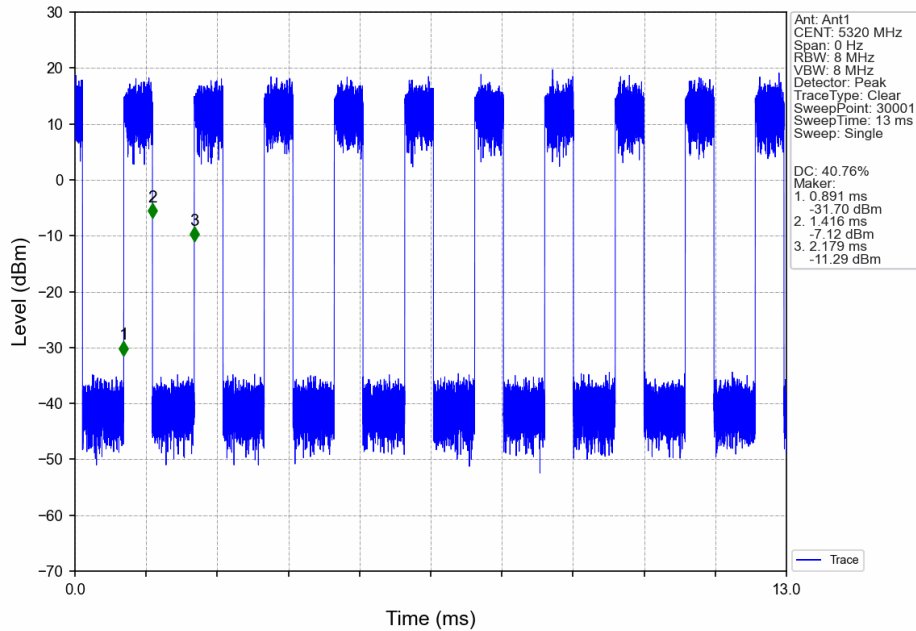
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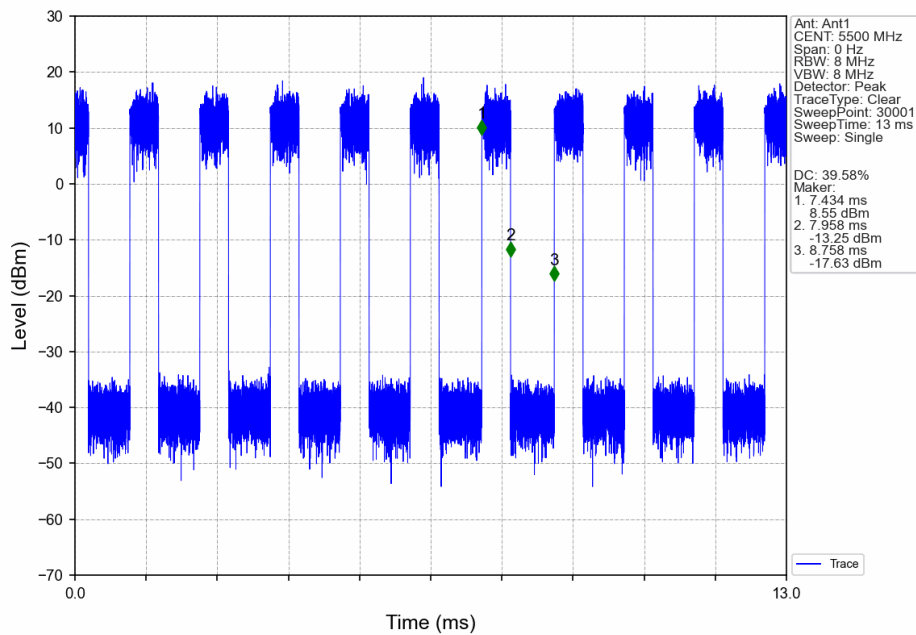
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802.11ax(HEW20)_HCH_5320MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW20)_LCH_5500MHz_RU242_Left_Ant1_NTNV



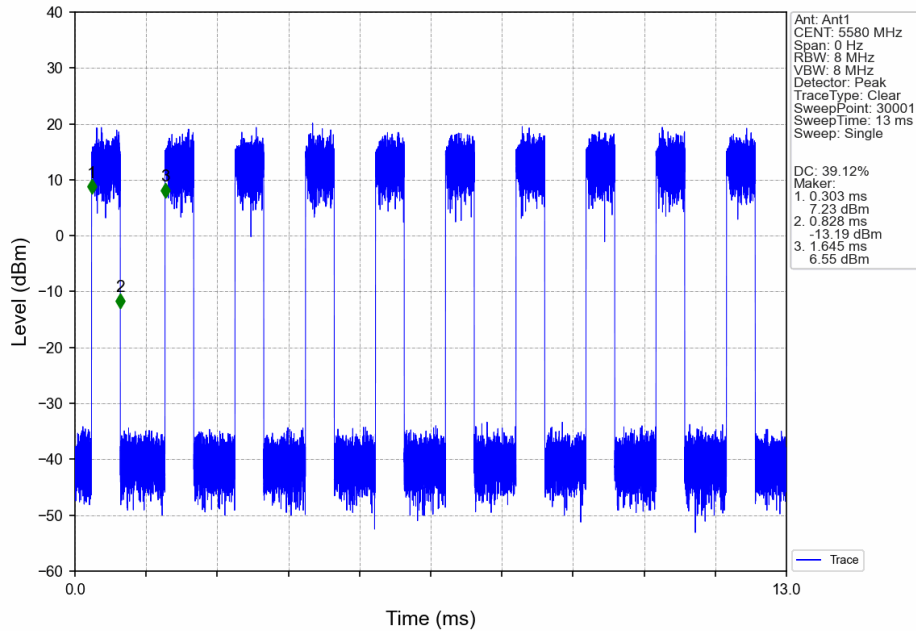
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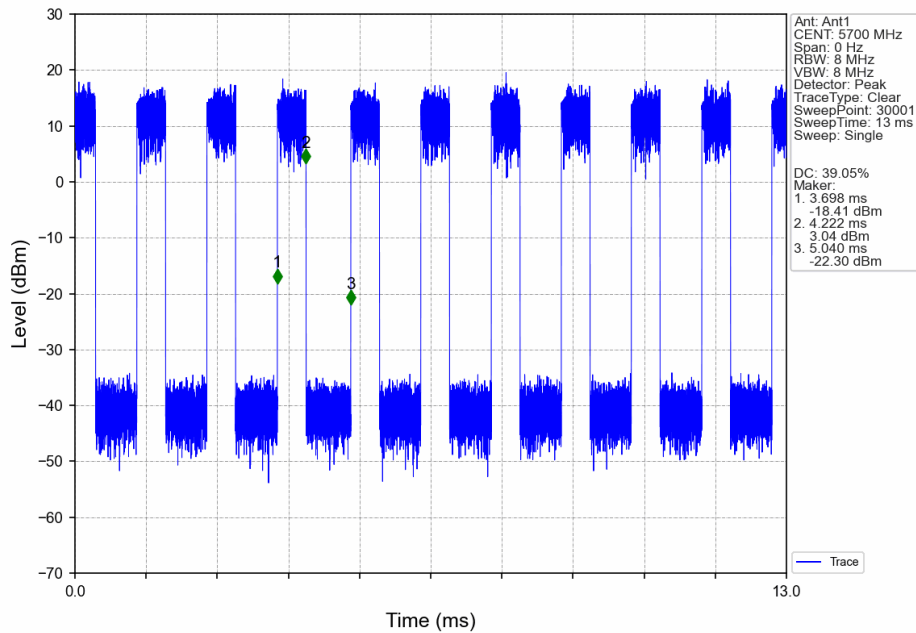
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802.11ax(HEW20)_MCH_5580MHz_RU242_Left_Ant1_NTNV



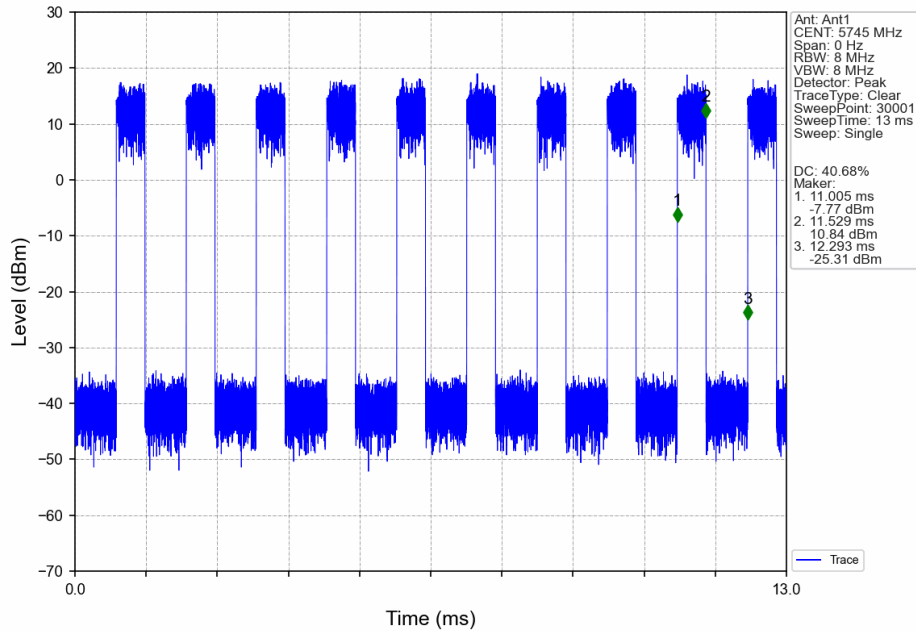
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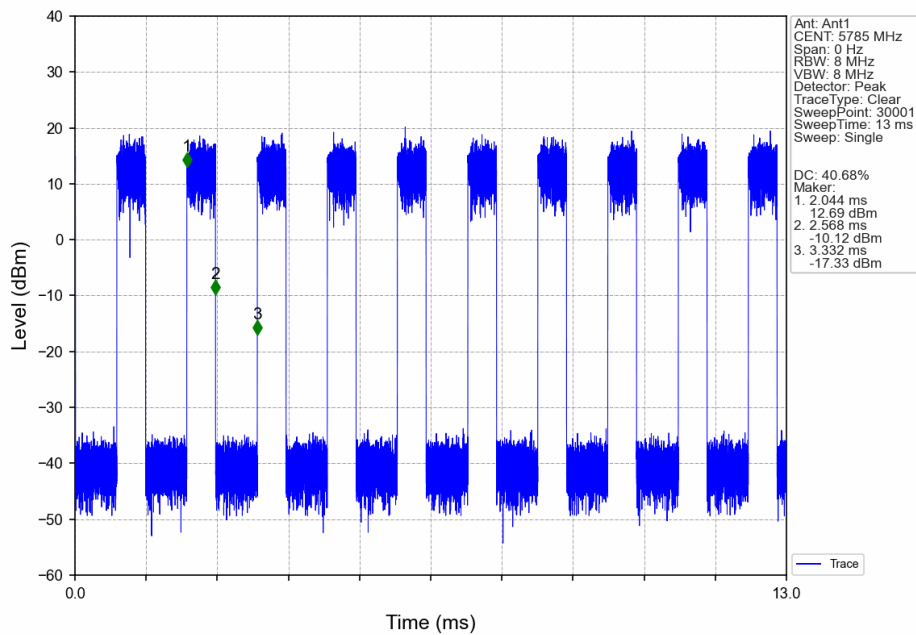
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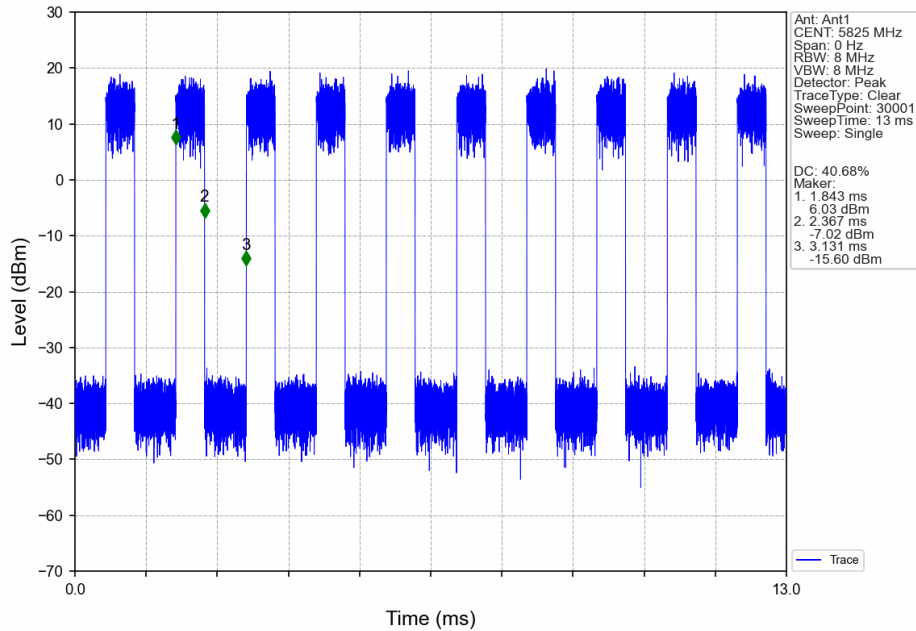
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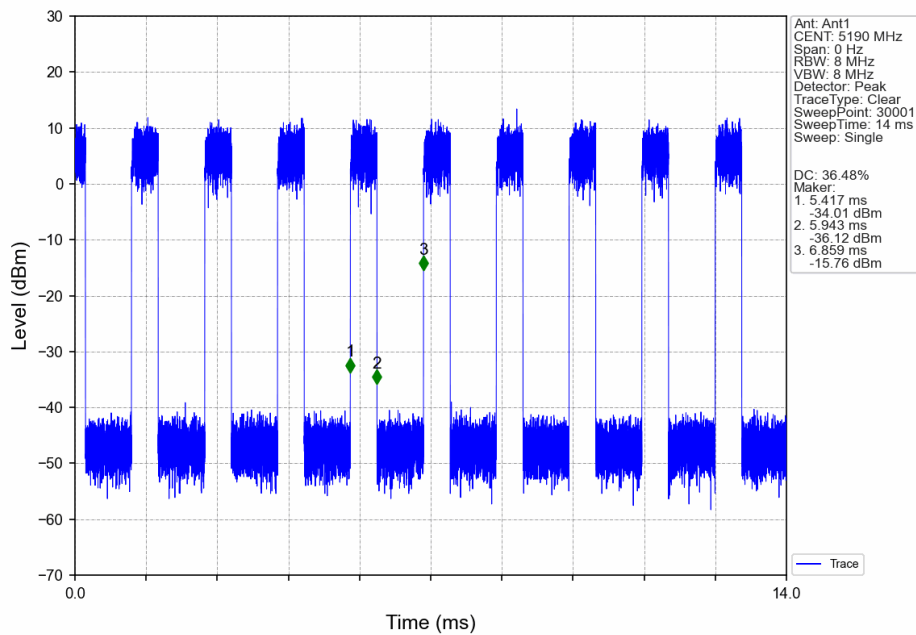
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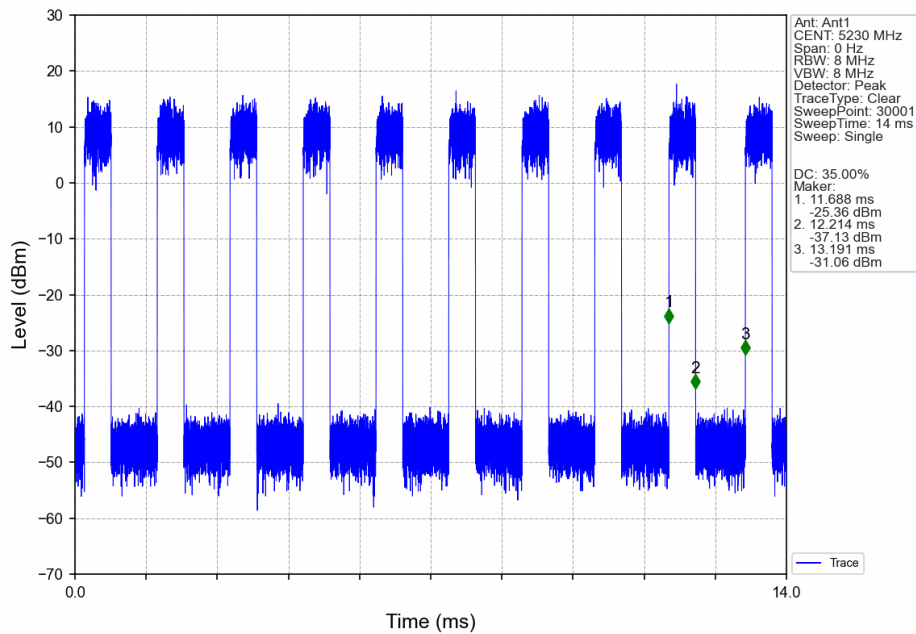
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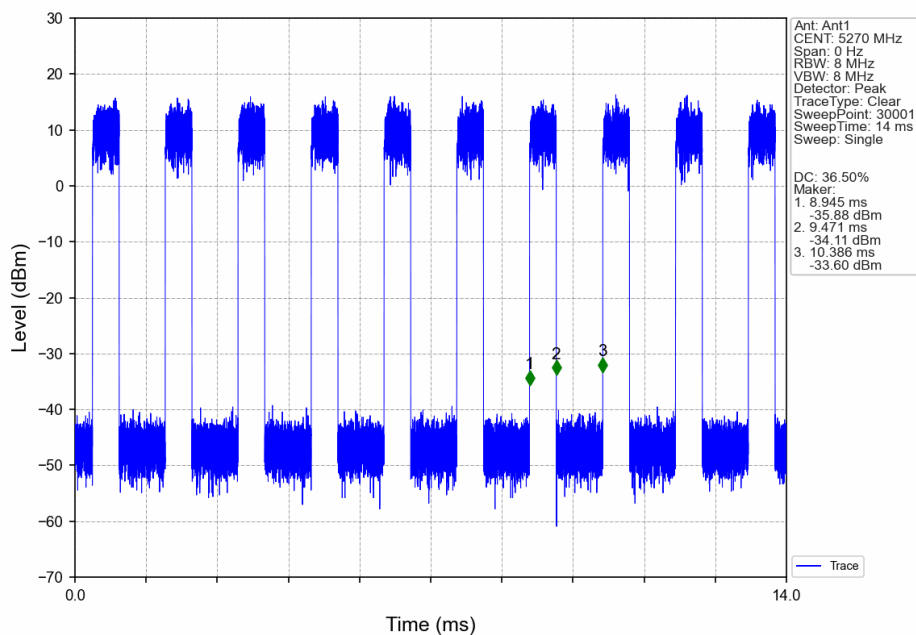
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5270MHz_RU484_Left_Ant1_NTNV



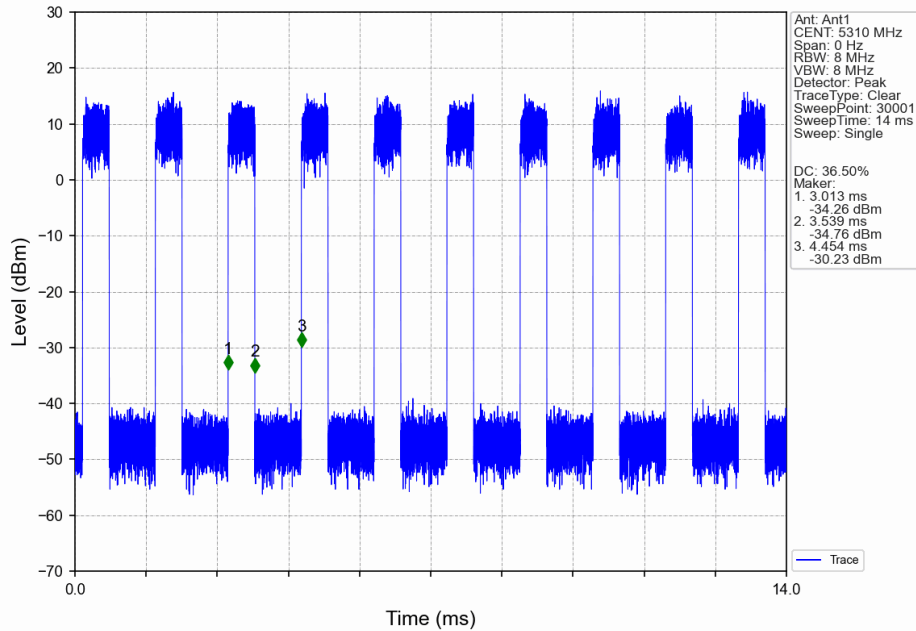
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802.11ax(HEW40)_HCH_5310MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5510MHz_RU484_Left_Ant1_NTNV

