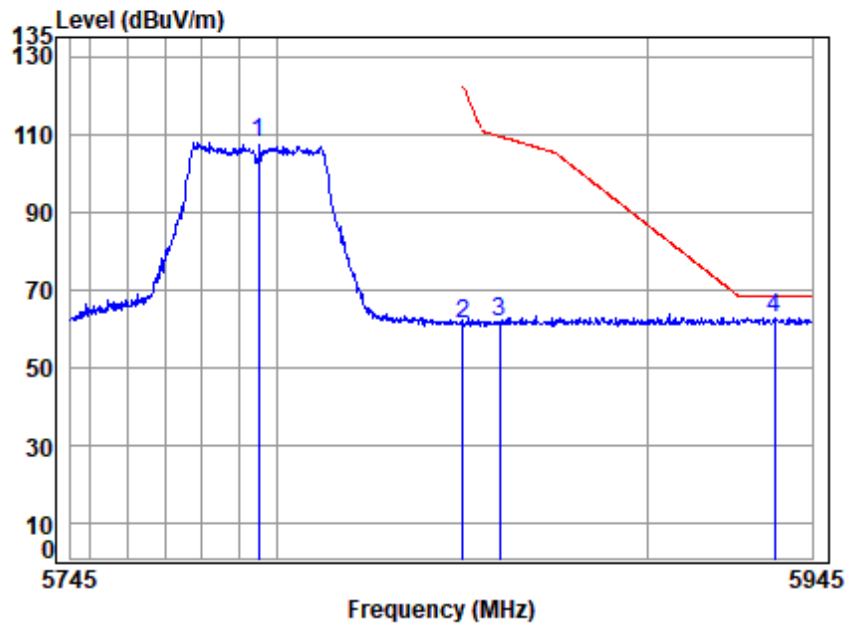


Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

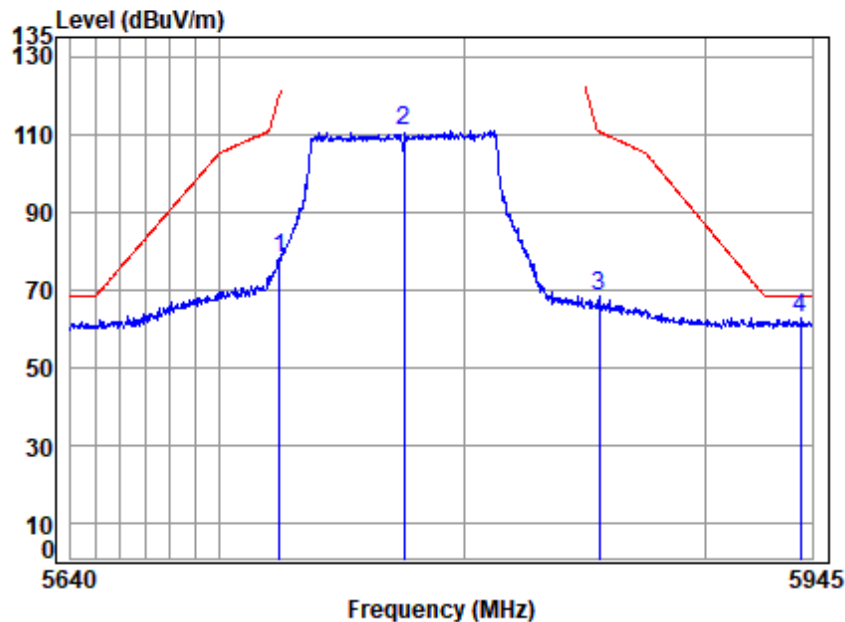


Site : chamber
Condition: 3m VERTICAL
Job No : 00544AT\00545AT
Mode : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.50	34.29	31.60	85.59	107.78	-----	-----	peak
2	5850.000	19.54	34.40	31.63	38.99	61.30	122.20	-60.90	peak
3	5860.000	19.54	34.44	31.64	39.49	61.83	109.40	-47.57	peak
4 p	5934.633	19.59	34.67	31.67	40.27	62.86	68.20	-5.34	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

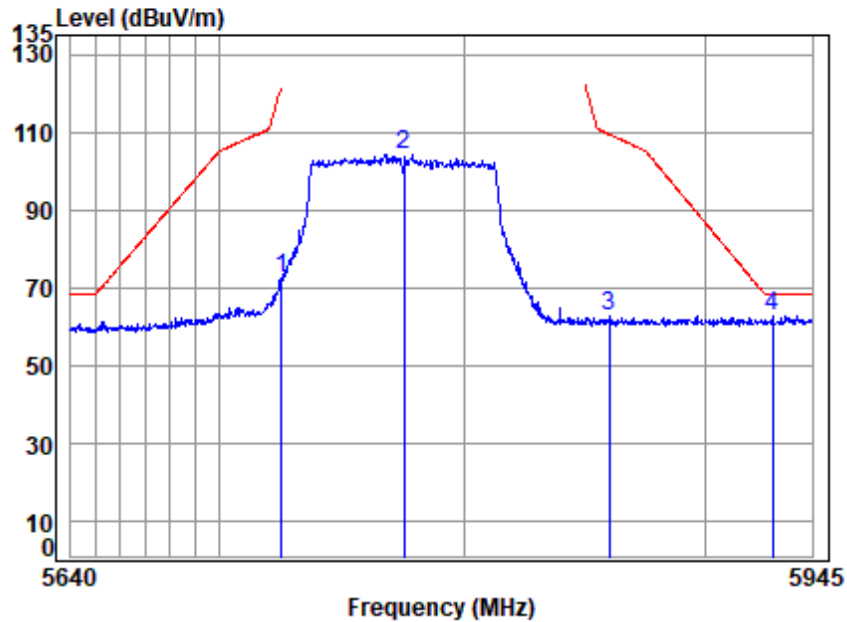


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00544AT\00545AT
Mode : 5775 Band edge
: 5G WIFI 11AC80

		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	5724.390	19.46	34.25	31.57	56.07	78.21	120.81	-42.60 peak
2	5775.000	19.49	34.25	31.60	88.79	110.93	-----	----- peak
3	5855.815	19.54	34.42	31.63	45.85	68.18	110.57	-42.39 peak
4 p	5940.305	19.59	34.68	31.67	39.91	62.51	68.20	-5.69 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00544AT\00545AT
Mode : 5775 Band edge
: 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	5724.993	19.46	34.25	31.57	50.22	72.36	122.18	-49.82 peak
2	5775.000	19.49	34.25	31.60	82.26	104.40	-----	----- peak
3	5859.826	19.54	34.44	31.64	40.07	62.41	109.45	-47.04 peak
4 p	5928.429	19.59	34.66	31.67	39.93	62.51	68.20	-5.69 peak



7.6 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2

Test Method: ANSI C63.10 (2013) Section 12.2

7.6.1 E.U.T. Operation

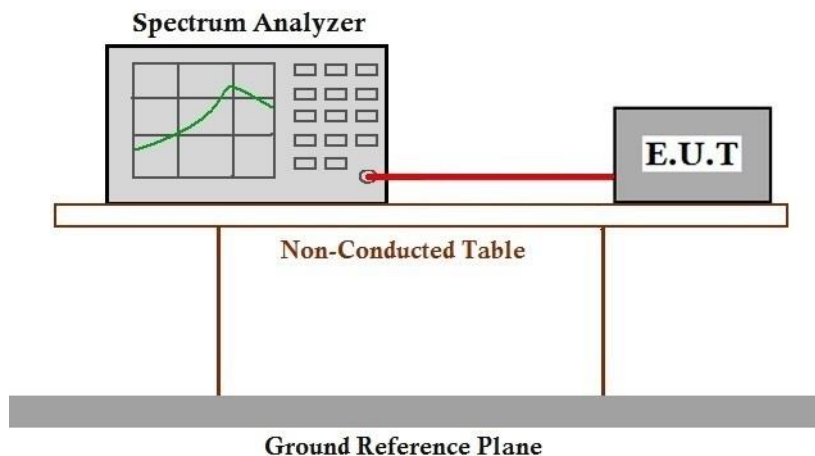
Operating Environment:

Temperature: 22.2 °C Humidity: 47.6 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

7.7.1 E.U.T. Operation

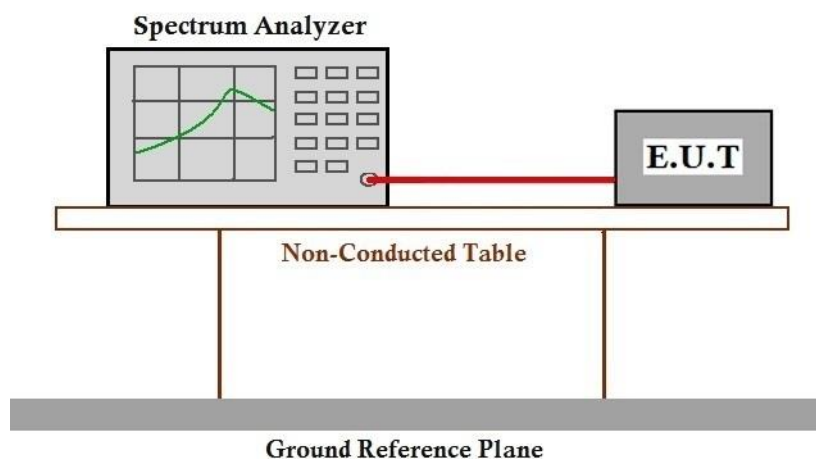
Operating Environment:

Temperature: 22.2 °C Humidity: 47.6 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

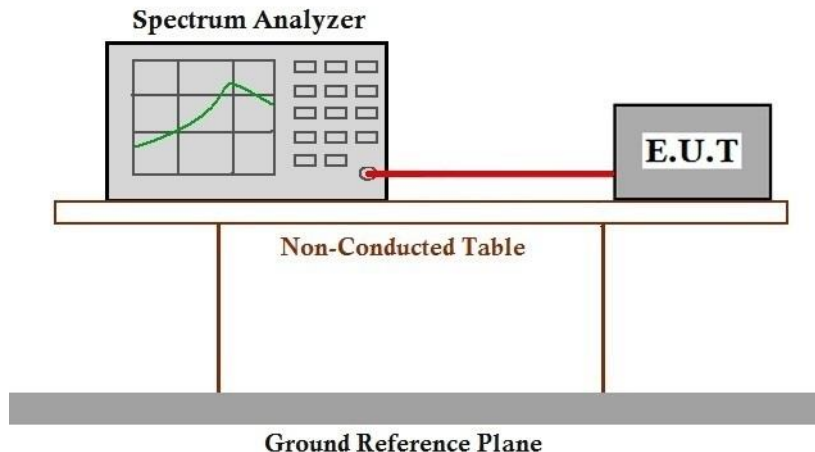
Humidity: 47.6 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

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

Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

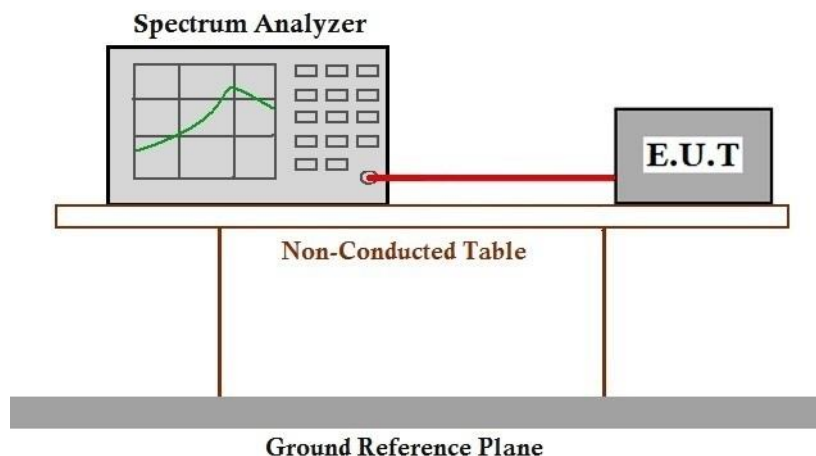
Humidity: 47.6 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.10 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

Humidity: 47.6 % RH

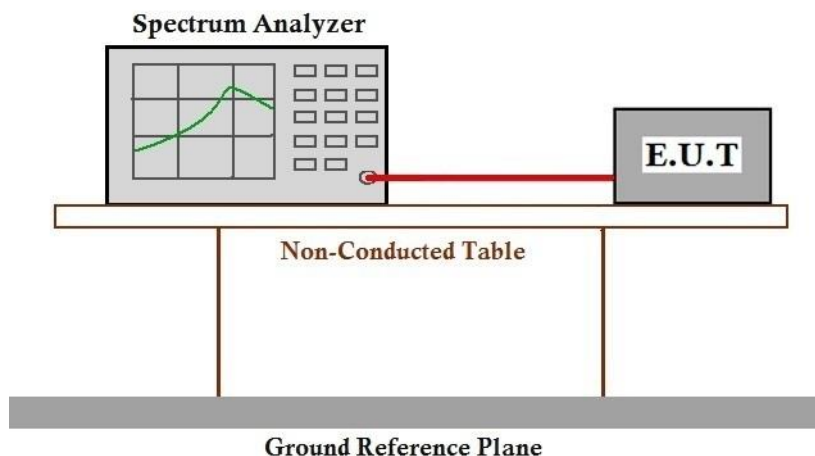
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 22.2 °C

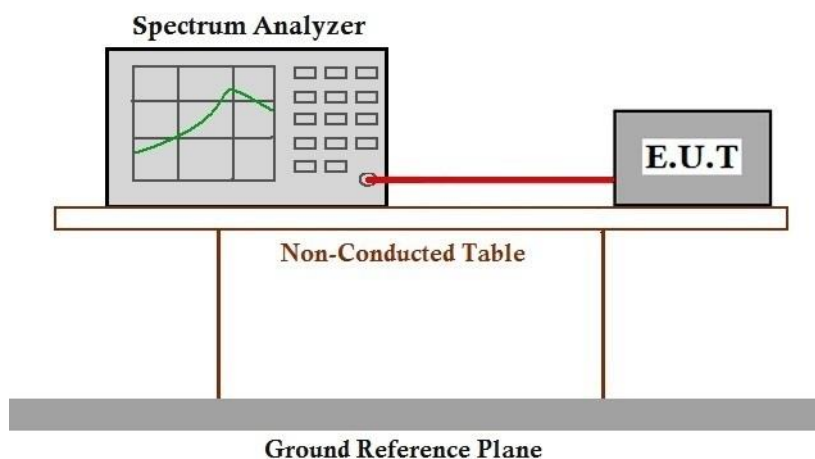
Humidity: 47.6 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. 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: ANSI C63.10 (2013) Section 12.3

Limit:

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

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

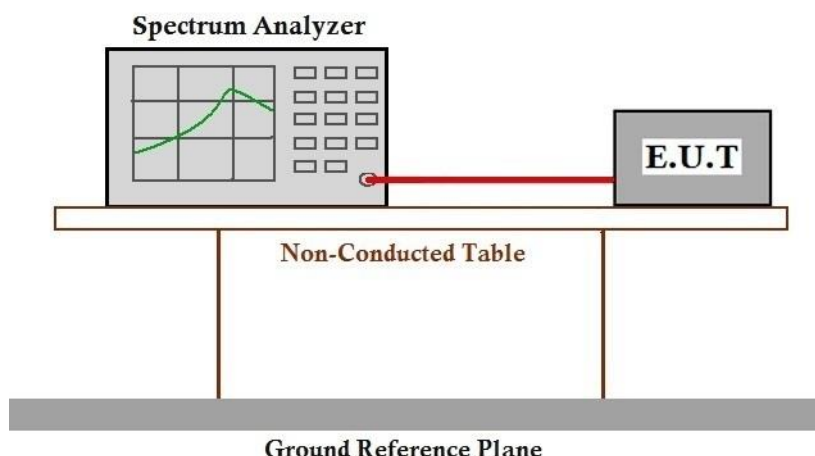
Humidity: 47.6 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. 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



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2502000544AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2502000544AT



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	/	/	1.976	1.992	99.20	0.04	0.03
		5200	/	/	1.976	1.992	99.20	0.04	0.03
		5240	/	/	1.976	1.992	99.20	0.04	0.03
		5260	/	/	1.977	1.993	99.20	0.04	0.03
		5300	/	/	1.976	1.992	99.20	0.04	0.03
		5320	/	/	1.976	1.993	99.15	0.04	0.03
		5500	/	/	1.977	1.993	99.20	0.04	0.03
		5580	/	/	1.976	1.993	99.15	0.04	0.00
		5700	/	/	1.977	1.993	99.20	0.04	0.00
		5745	/	/	1.976	1.992	99.20	0.04	0.03
		5785	/	/	1.976	1.992	99.20	0.04	0.03
		5825	/	/	1.977	1.993	99.20	0.04	0.03
		5720	/	/	1.976	1.993	99.15	0.04	0.03
802.11n (HT20)	MIMO	5180	/	/	5.428	5.620	96.58	0.15	2.22
		5200	/	/	5.428	5.602	96.89	0.14	2.09
		5240	/	/	5.430	5.620	96.62	0.15	2.22
		5260	/	/	5.430	5.594	97.07	0.13	1.95
		5300	/	/	5.430	5.620	96.62	0.15	2.36
		5320	/	/	5.430	5.620	96.62	0.15	2.22
		5500	/	/	5.428	5.594	97.03	0.13	1.95
		5580	/	/	5.430	5.620	96.62	0.15	2.18
		5700	/	/	5.429	5.611	96.76	0.14	2.18
		5745	/	/	5.428	5.620	96.58	0.15	2.22
		5785	/	/	5.444	5.612	97.01	0.13	1.30
		5825	/	/	5.430	5.620	96.62	0.15	2.36
		5720	/	/	5.430	5.594	97.07	0.13	1.77
802.11n (HT40)	MIMO	5190	/	/	5.428	5.620	96.58	0.15	2.07
		5230	/	/	5.428	5.444	99.71	0.01	0.04
		5270	/	/	5.430	5.584	97.24	0.12	1.74



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		5310	/	/	5.430	5.620	96.62	0.15	2.22
		5510	/	/	5.428	5.618	96.62	0.15	1.57
		5550	/	/	5.428	5.618	96.62	0.15	2.22
		5670	/	/	5.428	5.618	96.62	0.15	2.36
		5755	/	/	5.428	5.610	96.76	0.14	2.22
		5795	/	/	5.428	5.736	94.63	0.24	3.70
		5710	/	/	5.430	5.611	96.77	0.14	2.24
802.11ac (VHT20)	MIMO	5180	/	/	5.430	5.610	96.79	0.14	2.19
		5200	/	/	5.430	5.602	96.93	0.14	2.05
		5240	/	/	5.444	5.812	93.67	0.28	5.10
		5260	/	/	5.430	5.620	96.62	0.15	2.04
		5300	/	/	5.428	5.618	96.62	0.15	2.40
		5320	/	/	5.428	5.620	96.58	0.15	1.93
		5500	/	/	5.430	5.620	96.62	0.15	2.36
		5580	/	/	5.444	5.612	97.01	0.13	2.08
		5700	/	/	5.430	5.602	96.93	0.14	1.73
		5745	/	/	5.428	5.612	96.72	0.14	1.93
		5785	/	/	5.444	6.172	88.20	0.55	10.24
		5825	/	/	5.430	5.602	96.93	0.14	2.05
		5720	/	/	5.428	5.610	96.76	0.14	1.90
802.11ac (VHT40)	MIMO	5190	/	/	5.428	5.445	99.69	0.01	0.03
		5230	/	/	5.429	5.445	99.71	0.01	0.03
		5270	/	/	5.428	5.618	96.62	0.15	2.36
		5310	/	/	5.428	5.600	96.93	0.14	1.58
		5510	/	/	5.428	5.618	96.62	0.15	2.36
		5550	/	/	5.428	5.610	96.76	0.14	2.22
		5670	/	/	5.430	5.602	96.93	0.14	2.09
		5755	/	/	5.428	5.610	96.76	0.14	2.22
		5795	/	/	5.444	6.166	88.29	0.54	10.84
		5710	/	/	5.428	5.610	96.76	0.14	2.26
802.11ac (VHT80)	MIMO	5210	/	/	5.428	5.446	99.67	0.01	0.04
		5290	/	/	5.428	5.620	96.58	0.15	2.40
		5530	/	/	5.428	5.610	96.76	0.14	1.44
		5610	/	/	5.430	5.602	96.93	0.14	1.91
		5775	/	/	5.428	5.444	99.71	0.01	0.00
		5690	/	/	5.428	5.566	97.52	0.11	1.13
802.11ac (VHT160)	MIMO	5570	/	/	5.442	5.616	96.90	0.14	2.33
		5250	/	/	5.428	5.444	99.71	0.01	0.00
802.11ax (HEW20)	MIMO	5180	SU	/	5.444	5.618	96.90	0.14	1.90
		5200	SU	/	5.444	5.636	96.59	0.15	1.71



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		5240	SU	/	5.444	6.135	88.74	0.52	9.76
		5260	SU	/	5.444	5.636	96.59	0.15	2.03
		5300	SU	/	5.444	5.636	96.59	0.15	2.03
		5320	SU	/	5.444	5.600	97.21	0.12	1.41
		5500	SU	/	5.444	5.628	96.73	0.14	2.07
		5580	SU	/	5.444	5.626	96.77	0.14	2.04
		5700	SU	/	5.444	5.608	97.08	0.13	1.73
		5745	SU	/	5.444	5.636	96.59	0.15	2.03
		5785	SU	/	5.460	6.294	86.75	0.62	12.53
		5825	SU	/	5.444	5.636	96.59	0.15	1.75
		5720	SU	/	5.446	5.618	96.94	0.14	1.86
802.11ax (HEW40)	MIMO	5190	SU	/	5.446	5.636	96.63	0.15	2.21
		5230	SU	/	5.444	5.460	99.71	0.01	0.04
		5270	SU	/	5.444	5.618	96.90	0.14	1.90
		5310	SU	/	5.444	5.634	96.63	0.15	2.06
		5510	SU	/	5.444	5.634	96.63	0.15	2.07
		5550	SU	/	5.446	5.636	96.63	0.15	2.39
		5670	SU	/	5.444	5.634	96.63	0.15	2.36
		5755	SU	/	5.444	5.636	96.59	0.15	2.39
		5795	SU	/	5.444	5.634	96.63	0.15	2.36
		5710	SU	/	5.444	5.616	96.94	0.14	2.05
802.11ax (HEW80)	MIMO	5210	SU	/	5.444	5.462	99.67	0.01	0.04
		5290	SU	/	5.444	5.608	97.08	0.13	1.91
		5530	SU	/	5.444	5.634	96.63	0.15	2.36
		5610	SU	/	5.444	5.618	96.90	0.14	1.90
		5775	SU	/	5.444	5.460	99.71	0.01	0.00
		5690	SU	/	5.444	5.636	96.59	0.15	2.39
802.11ax (HEW160)	MIMO	5570	SU	/	5.460	5.636	96.88	0.14	2.40
		5250	SU	/	5.444	5.460	99.71	0.01	0.00
802.11be (EHT20)	MIMO	5180	SU	/	5.468	5.754	95.03	0.22	4.25
		5200	SU	/	5.464	5.616	97.29	0.12	1.91
		5240	SU	/	5.452	5.634	96.77	0.14	2.04
		5260	SU	/	5.452	5.644	96.60	0.15	1.25
		5300	SU	/	5.451	5.643	96.60	0.15	2.05
		5320	SU	/	5.452	5.636	96.74	0.14	2.21
		5500	SU	/	5.452	5.644	96.60	0.15	1.42
		5580	SU	/	5.452	5.644	96.60	0.15	2.21
		5700	SU	/	5.452	5.644	96.60	0.15	2.21
		5745	SU	/	5.452	5.608	97.22	0.12	1.77
		5785	SU	/	5.467	6.110	89.48	0.48	8.83



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SZEMC-TRF-01 Rev. A/1

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		5825	SU	/	5.466	5.590	97.78	0.10	1.28
		5720	SU	/	5.452	5.644	96.60	0.15	2.06
802.11be (EHT40)	MIMO	5190	SU	/	5.452	5.468	99.71	0.01	0.00
		5230	SU	/	5.452	5.642	96.63	0.15	0.76
		5270	SU	/	5.452	5.580	97.71	0.10	1.13
		5310	SU	/	5.454	5.644	96.63	0.15	2.21
		5510	SU	/	5.452	5.642	96.63	0.15	2.03
		5550	SU	/	5.452	5.642	96.63	0.15	2.21
		5670	SU	/	5.452	5.642	96.63	0.15	1.89
		5755	SU	/	5.454	5.634	96.81	0.14	2.22
		5795	SU	/	5.451	5.468	99.69	0.01	0.04
		5710	SU	/	5.452	5.634	96.77	0.14	2.21
802.11be (EHT80)	MIMO	5210	SU	/	5.452	5.470	99.67	0.01	0.04
		5290	SU	/	5.452	5.634	96.77	0.14	2.21
		5530	SU	/	5.452	5.642	96.63	0.15	2.35
		5610	SU	/	5.452	5.642	96.63	0.15	2.39
		5775	SU	/	5.452	5.468	99.71	0.01	0.00
		5690	SU	/	5.452	5.634	96.77	0.14	2.21
802.11be (EHT160)	MIMO	5570	SU	/	5.452	5.644	96.60	0.15	2.06
		5250	SU	/	5.452	5.468	99.71	0.01	0.00



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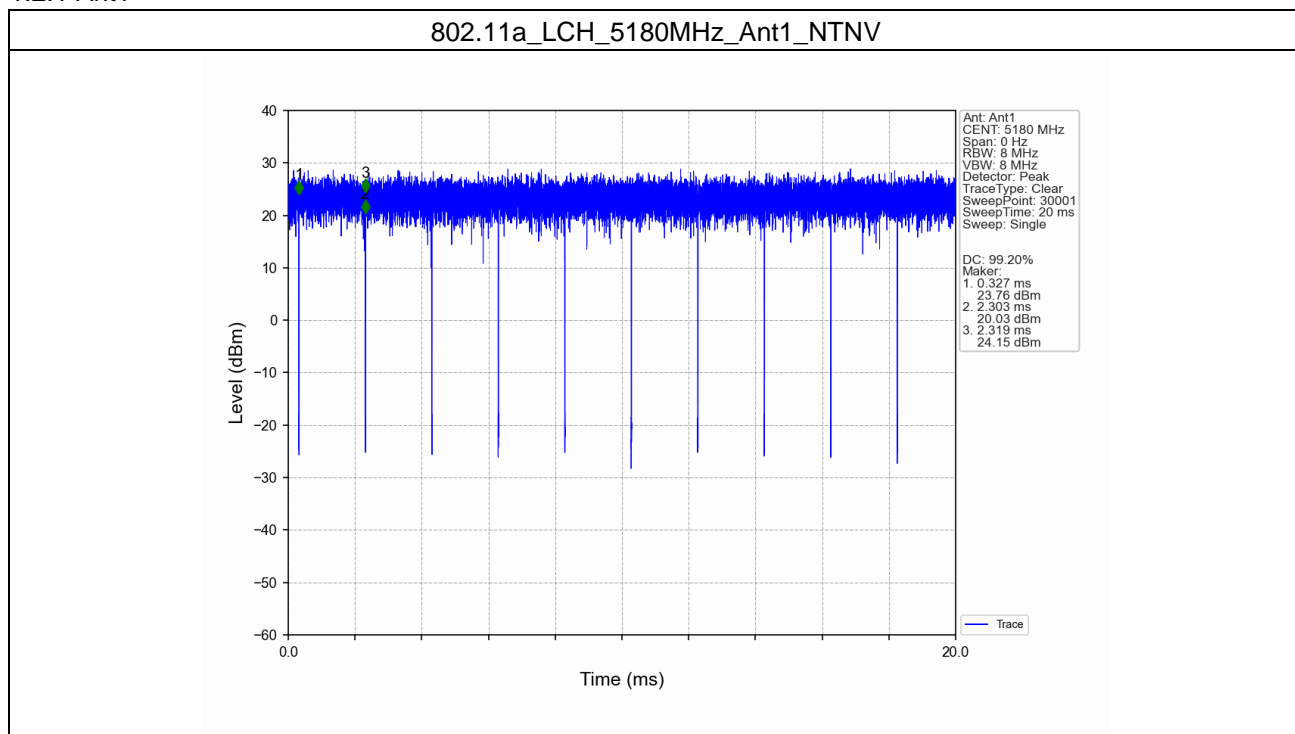
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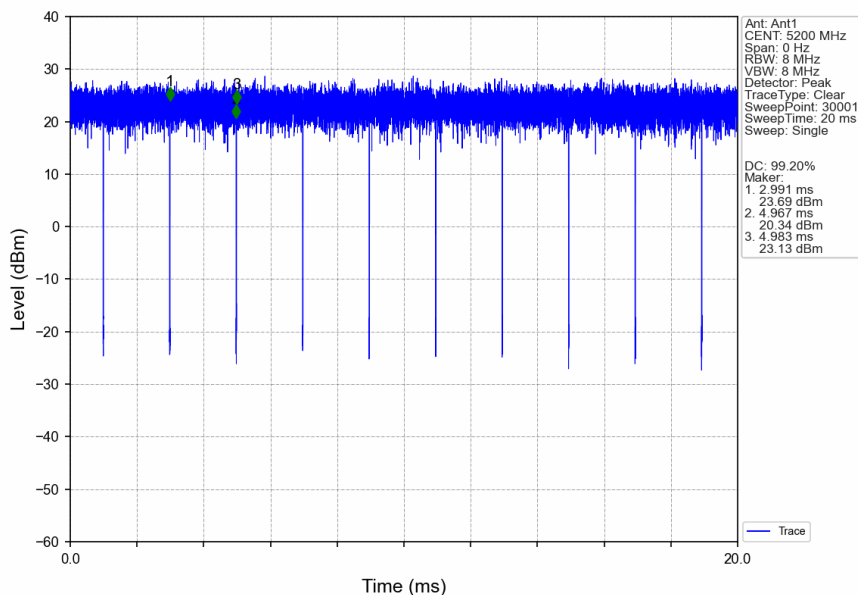
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1.2 Test Graph

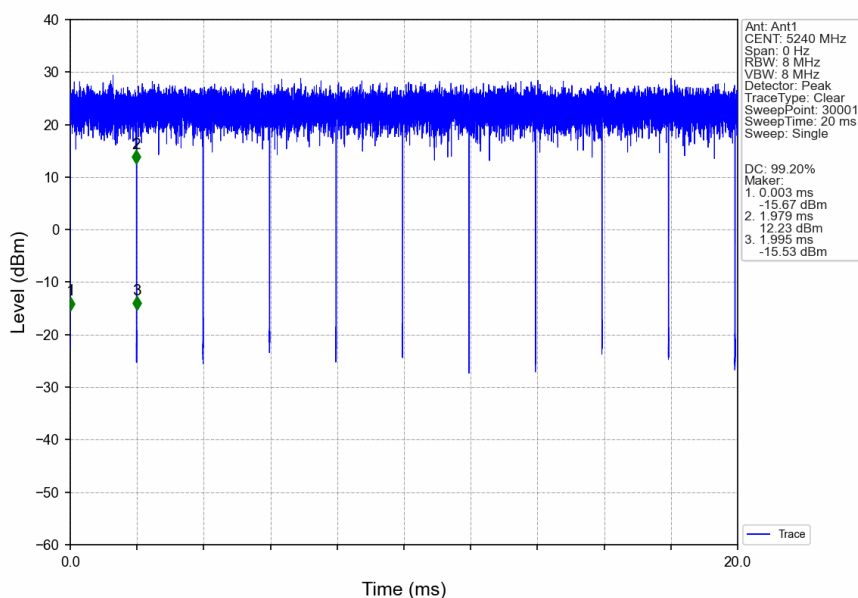
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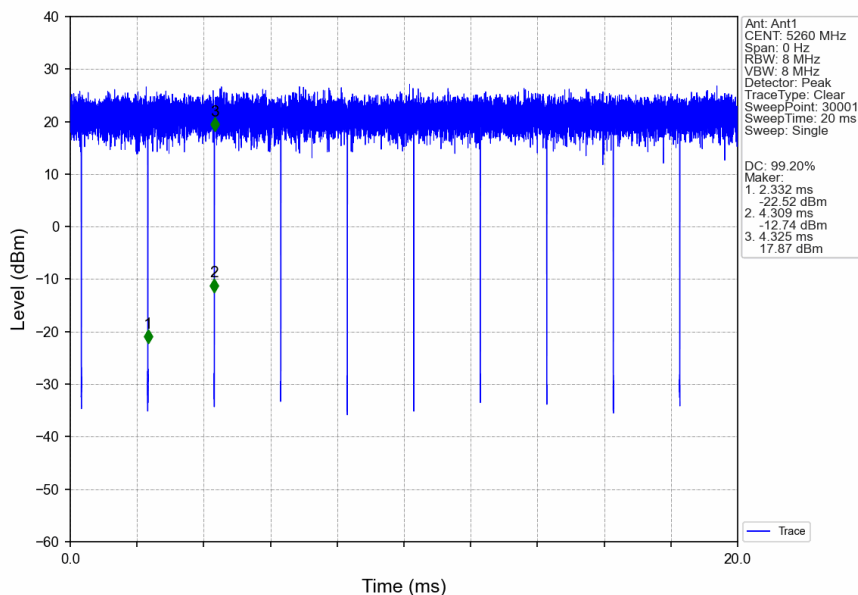
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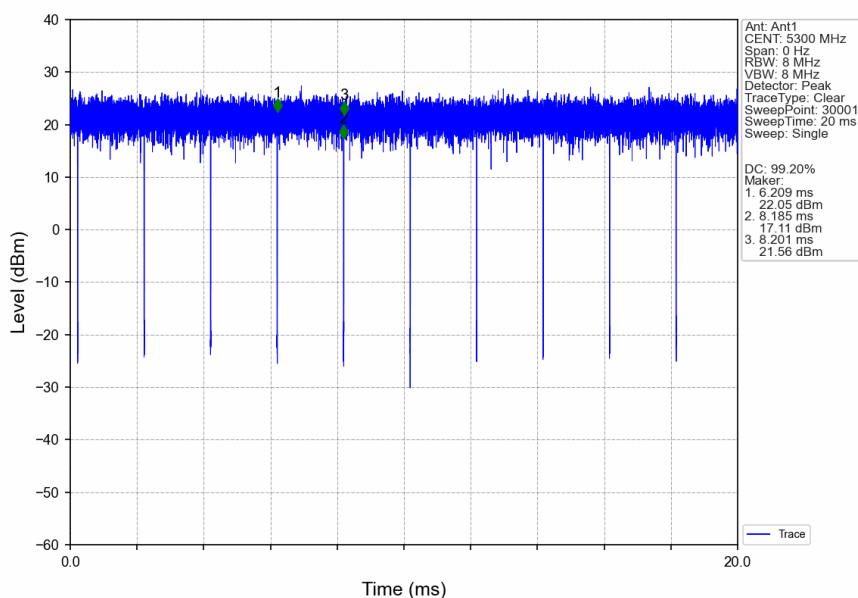
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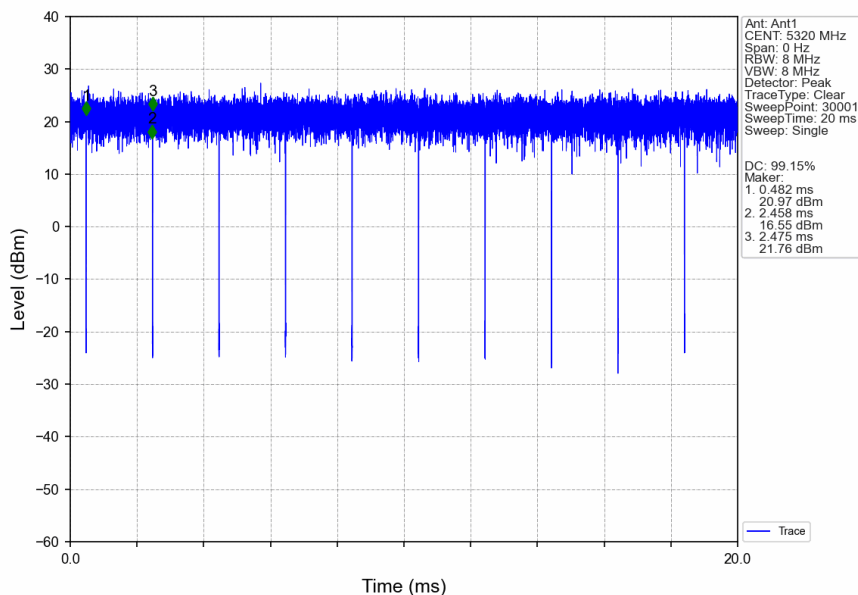
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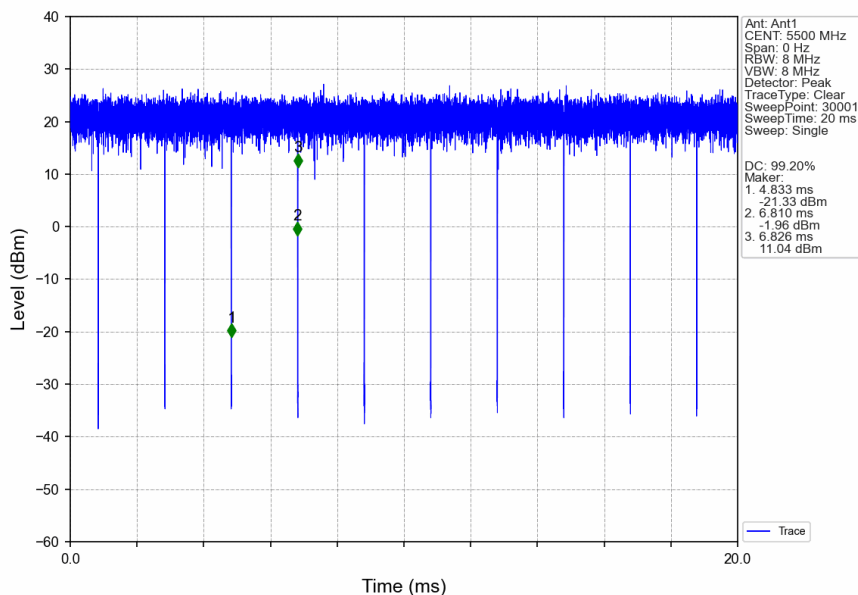
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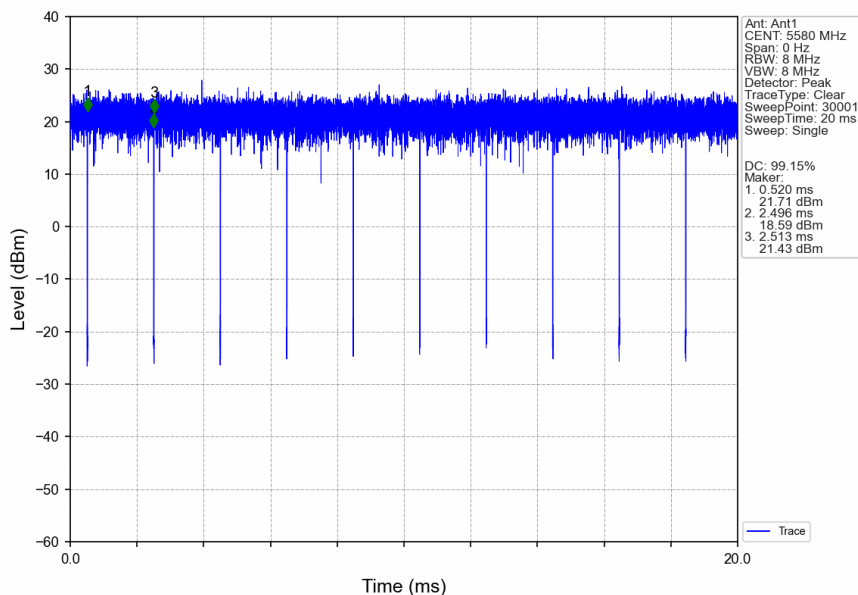
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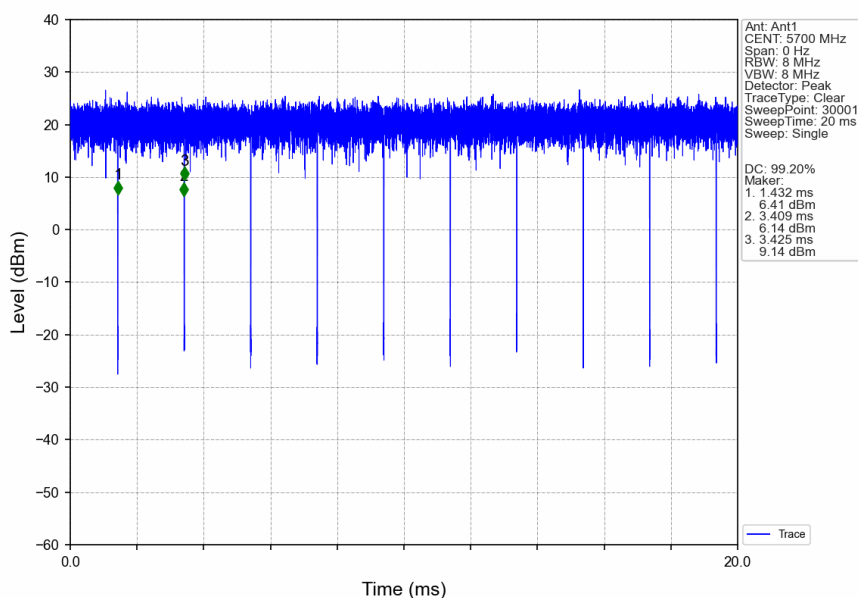
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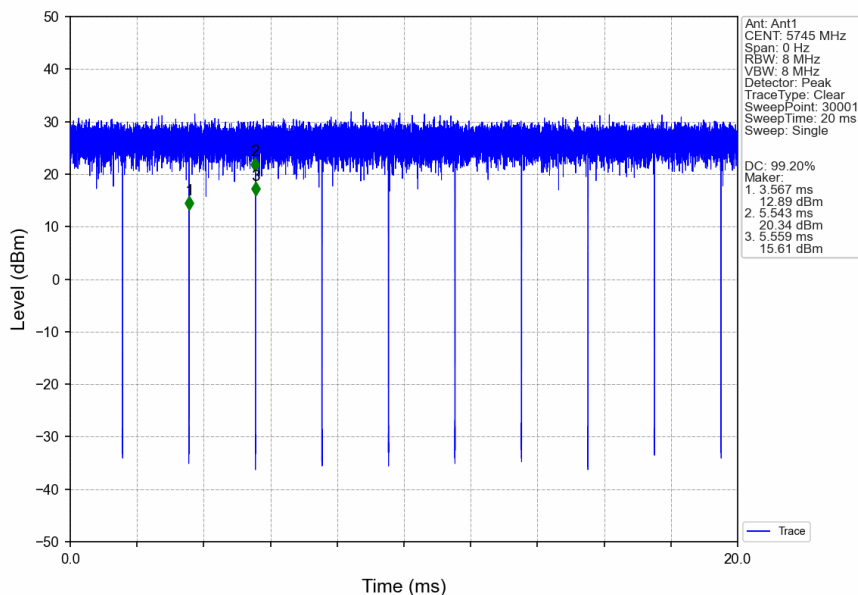
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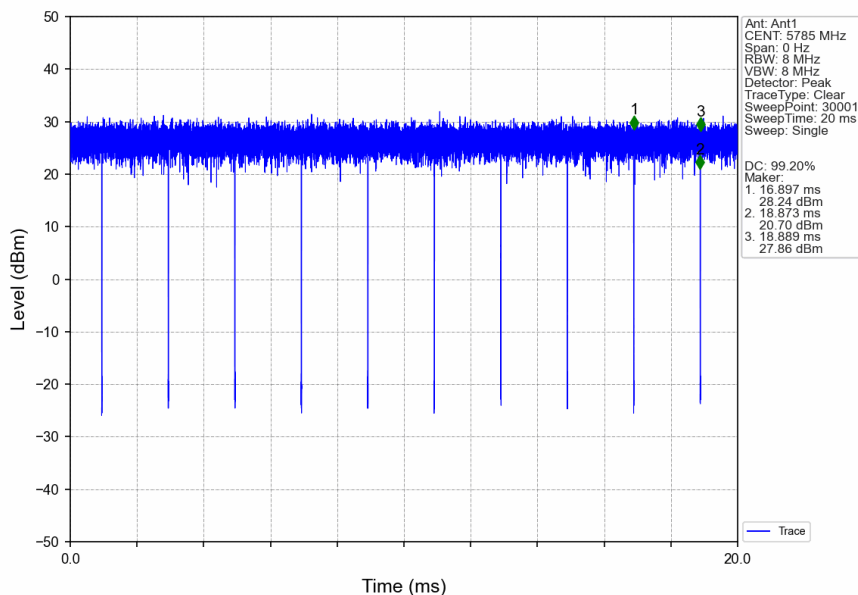
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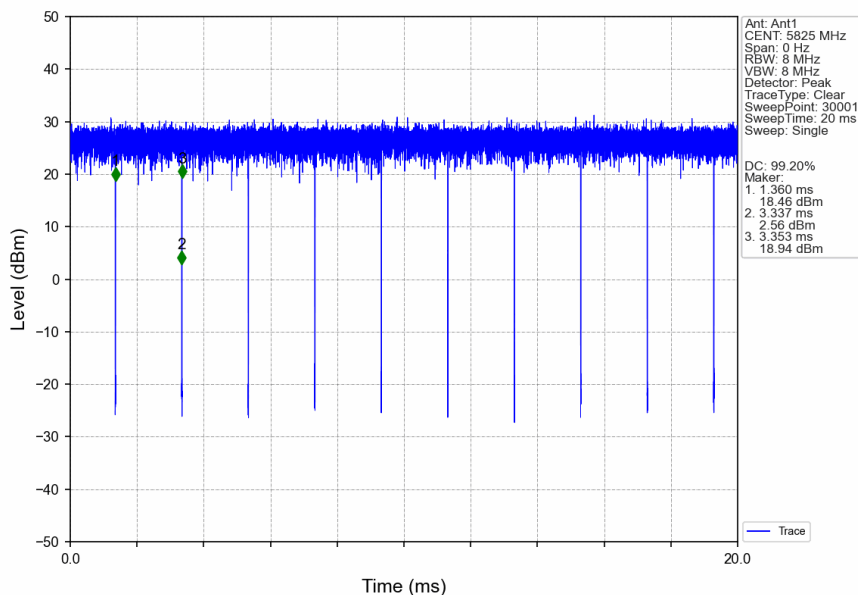
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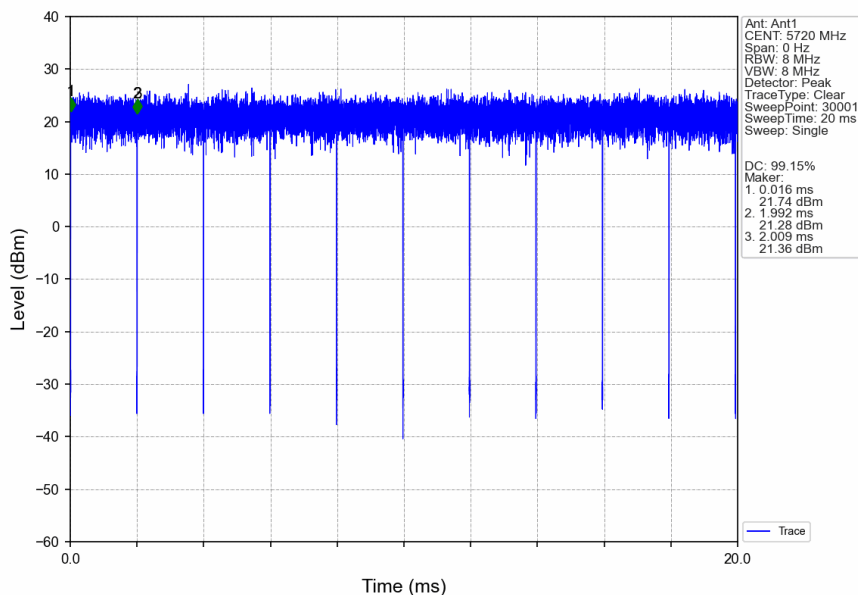
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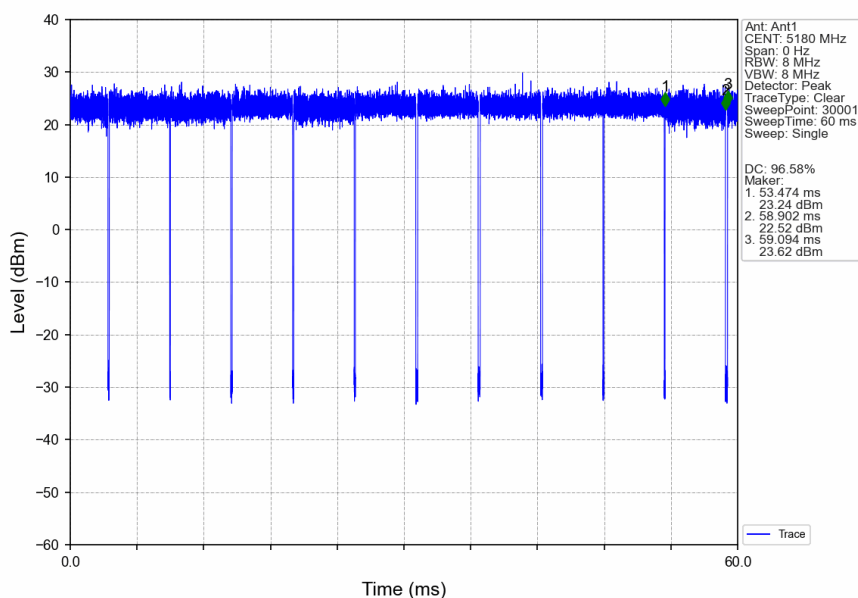
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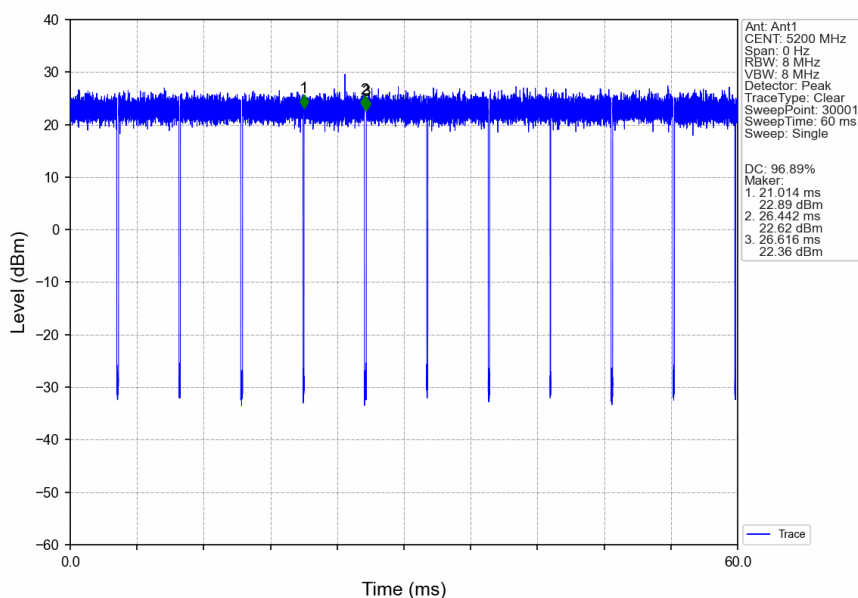
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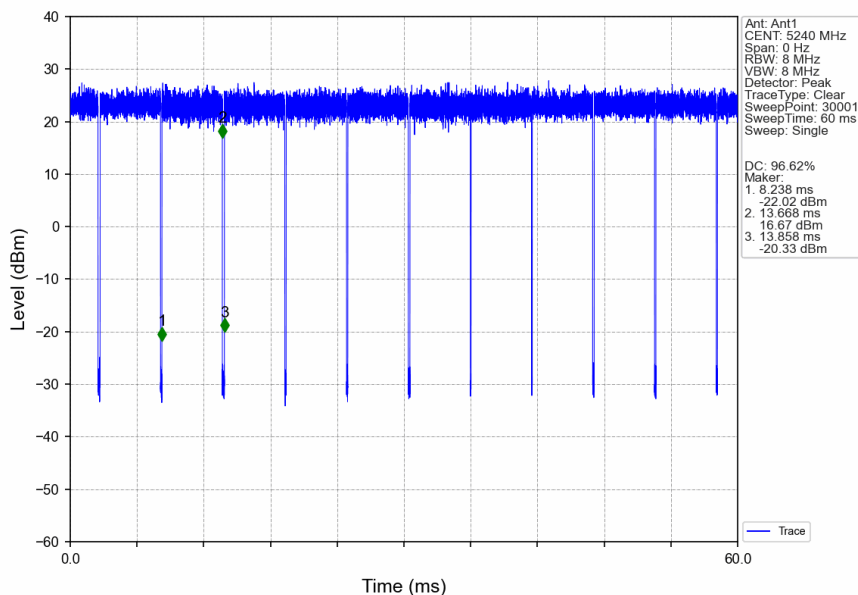
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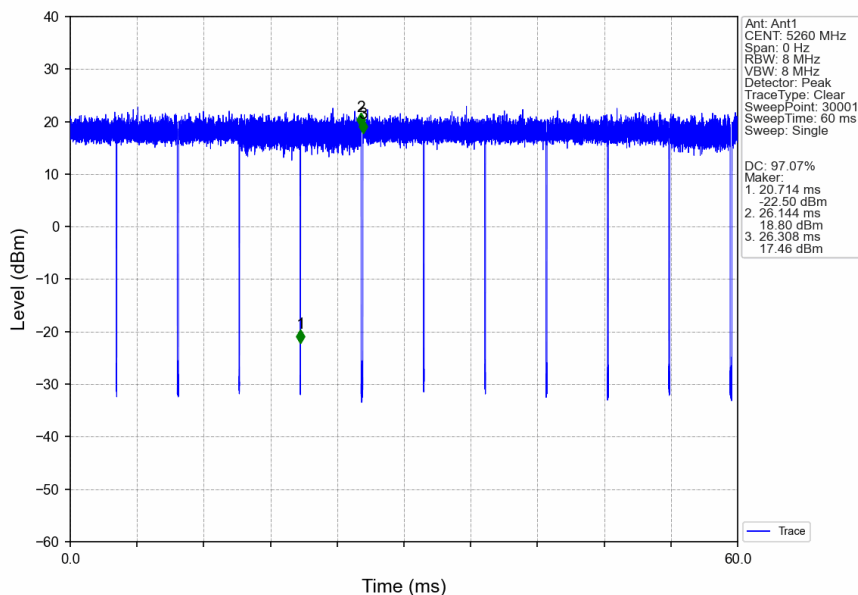
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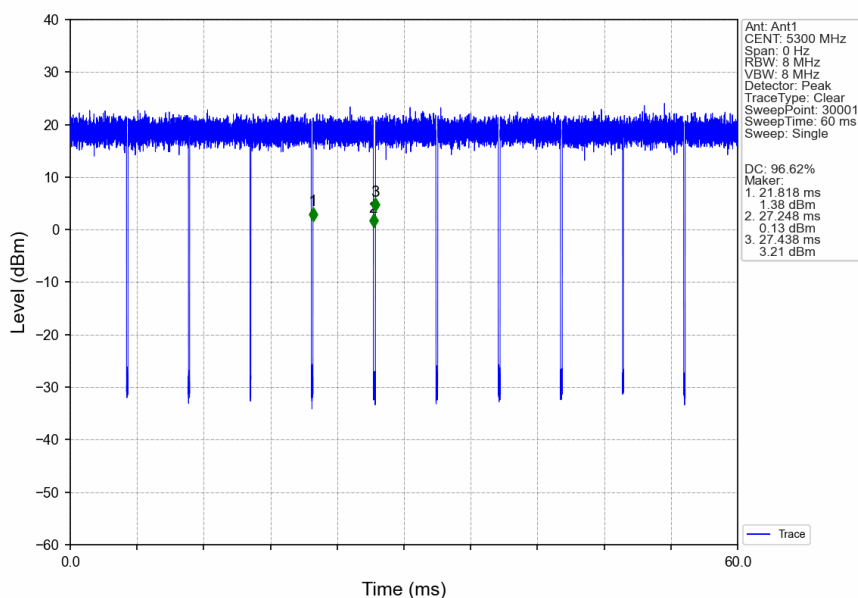
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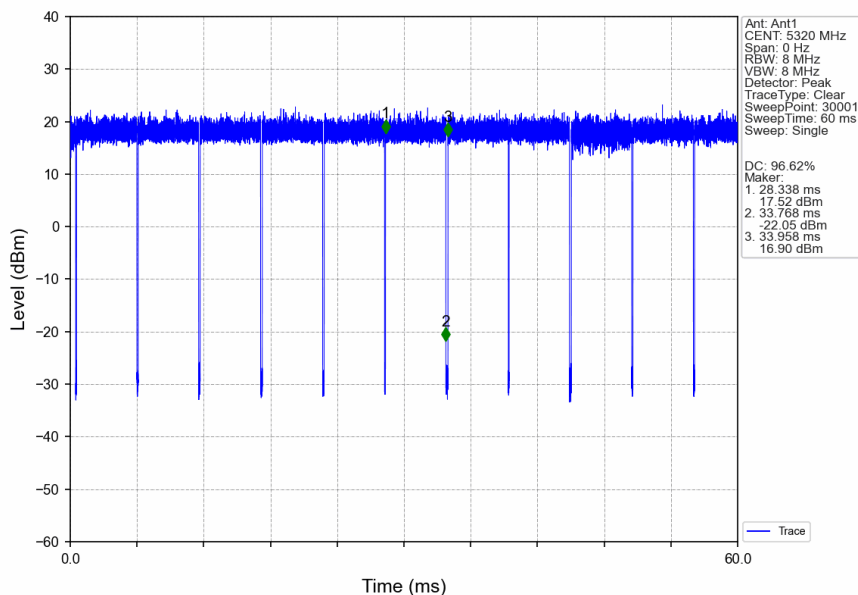
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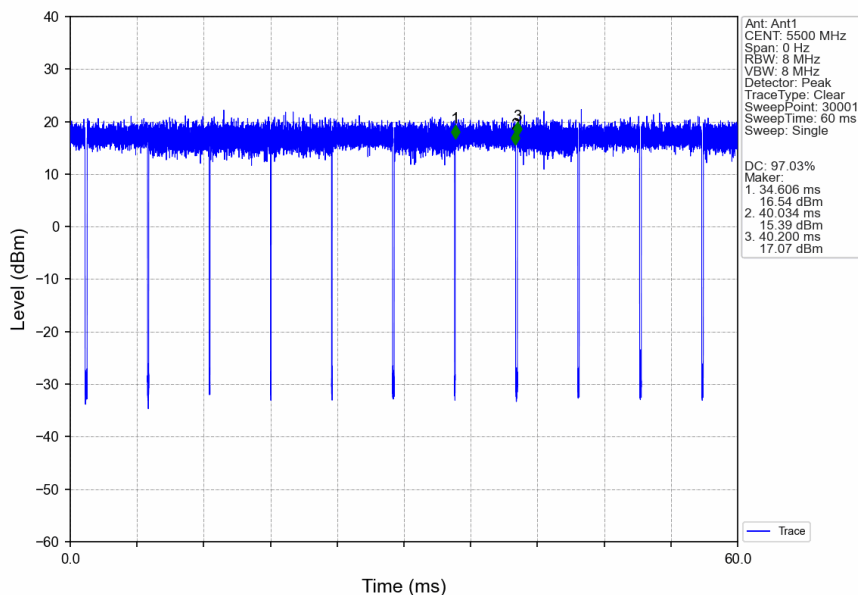
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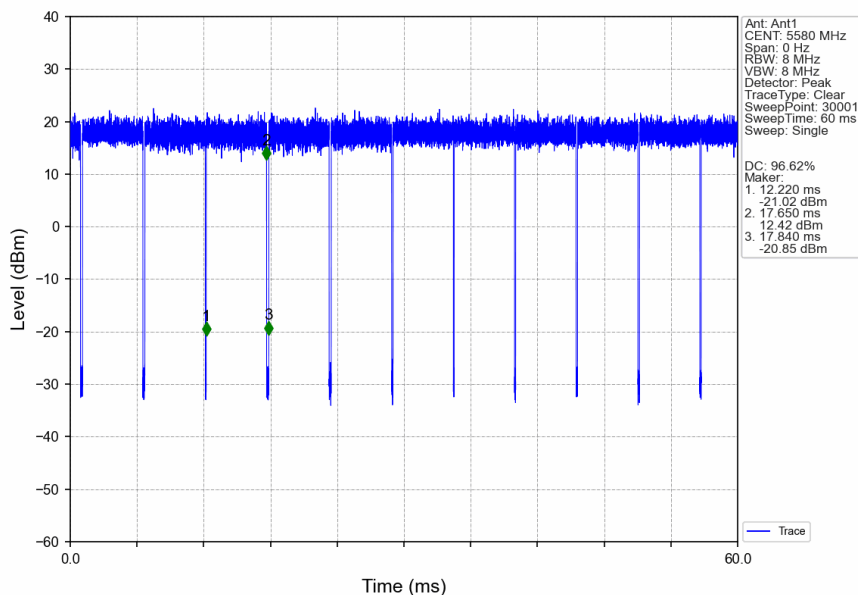
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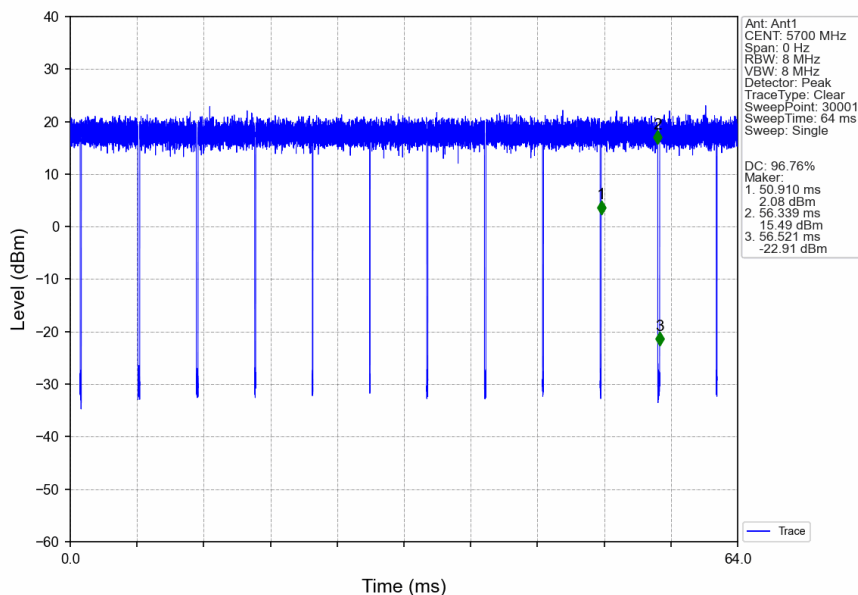
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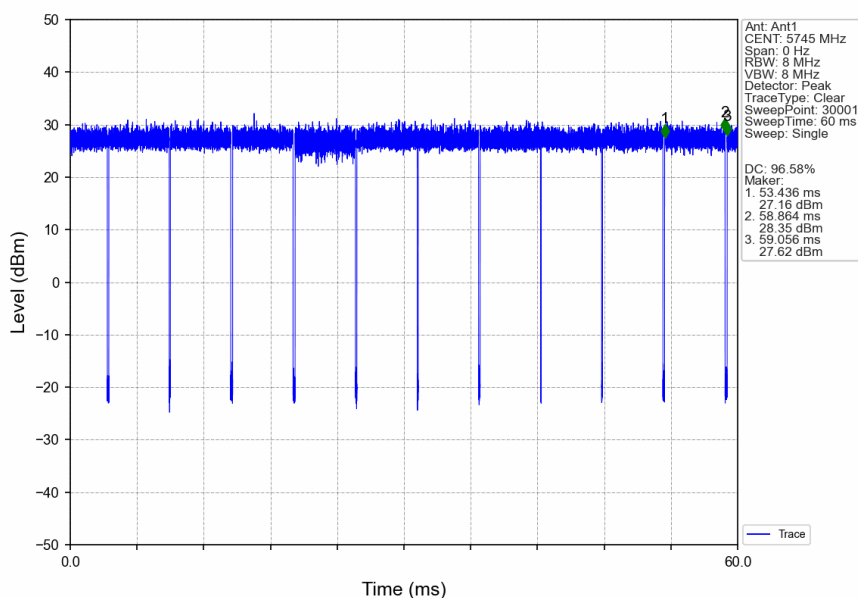
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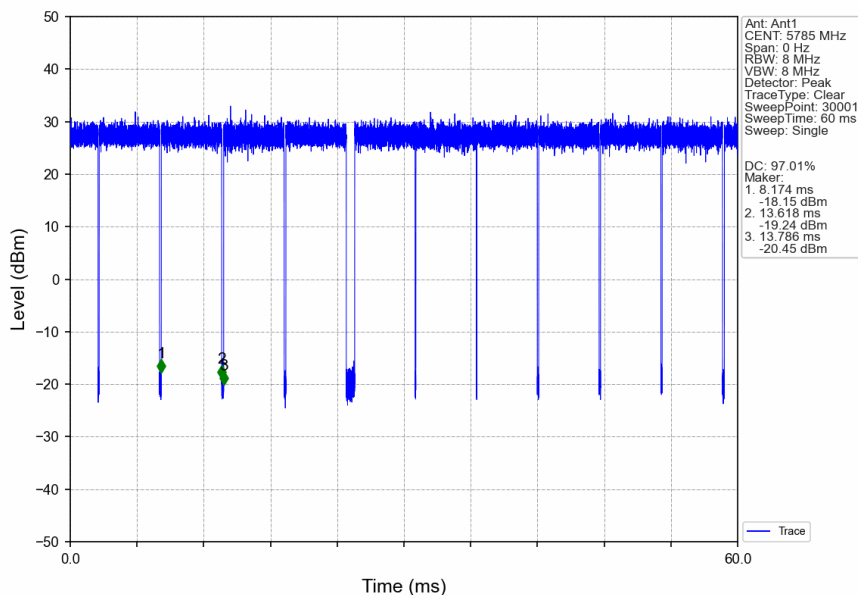
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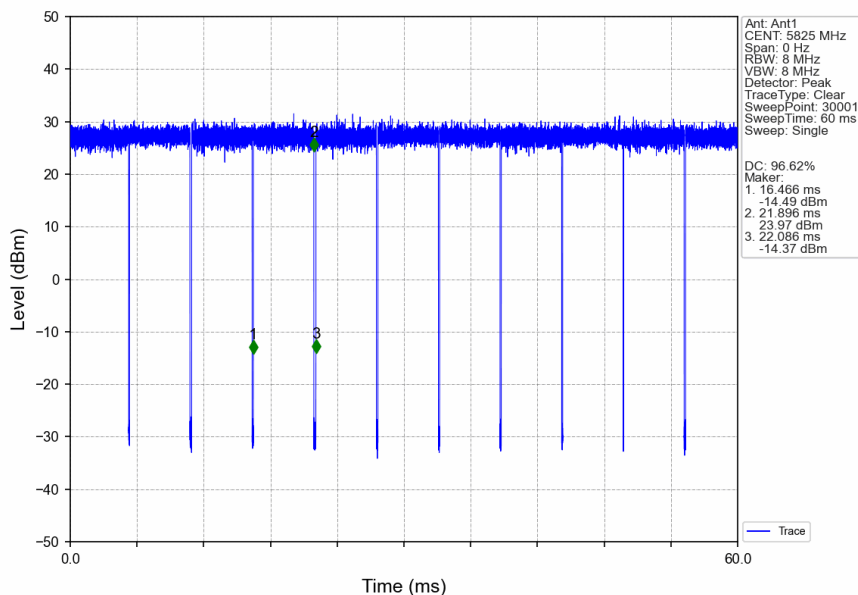
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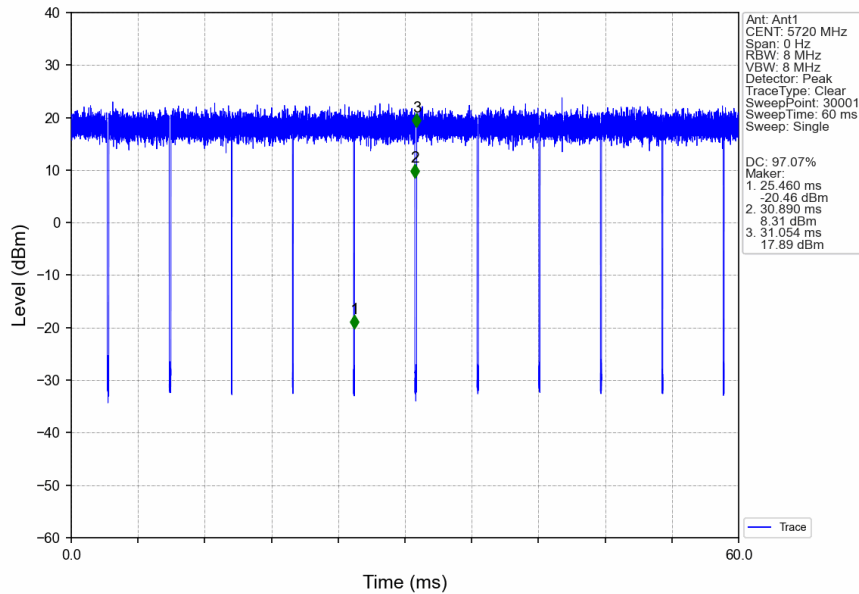
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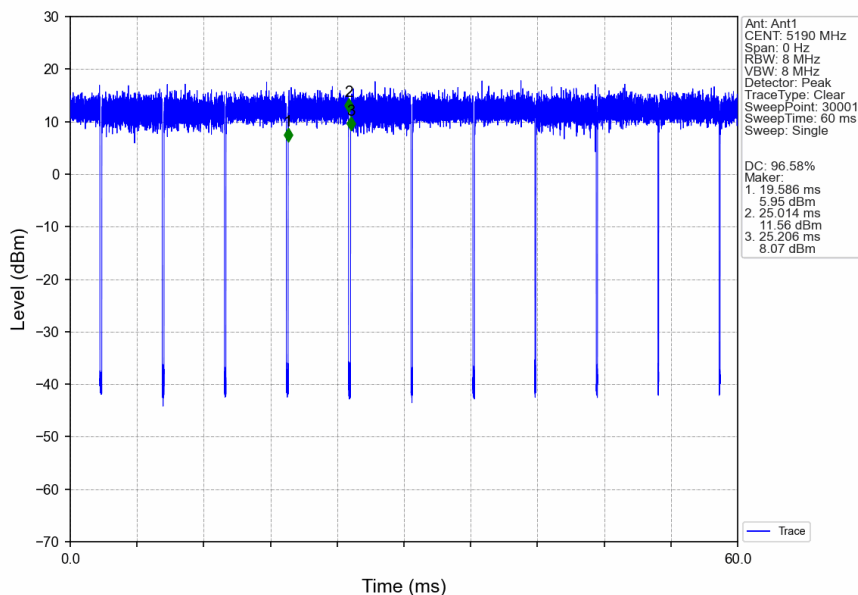
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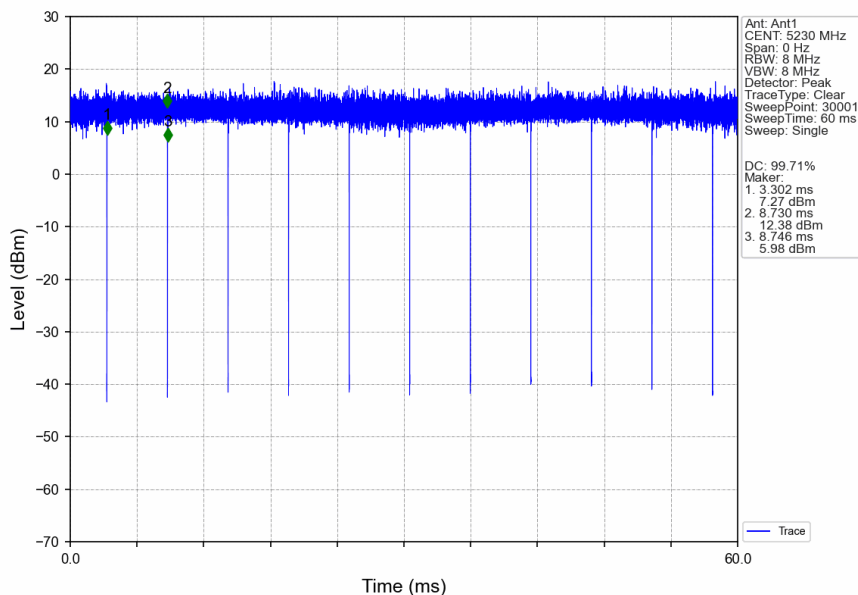
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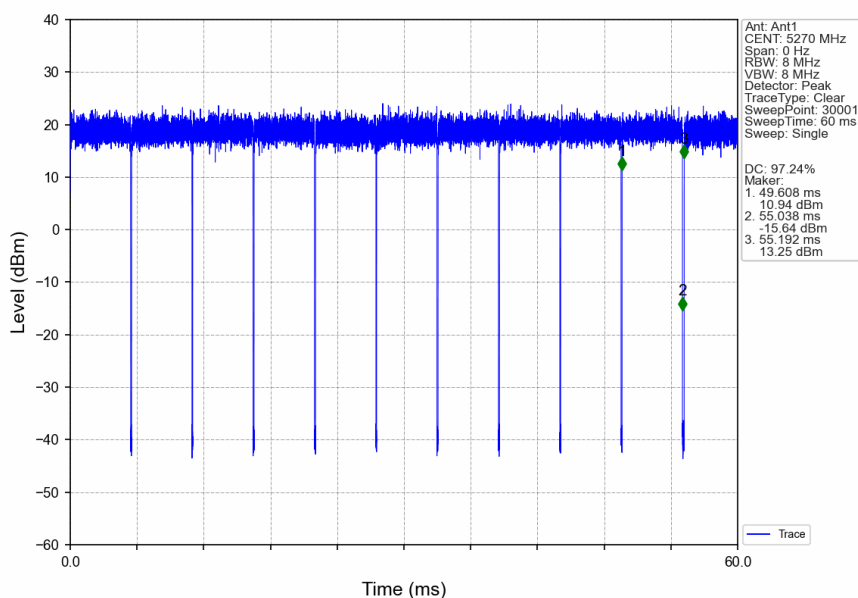
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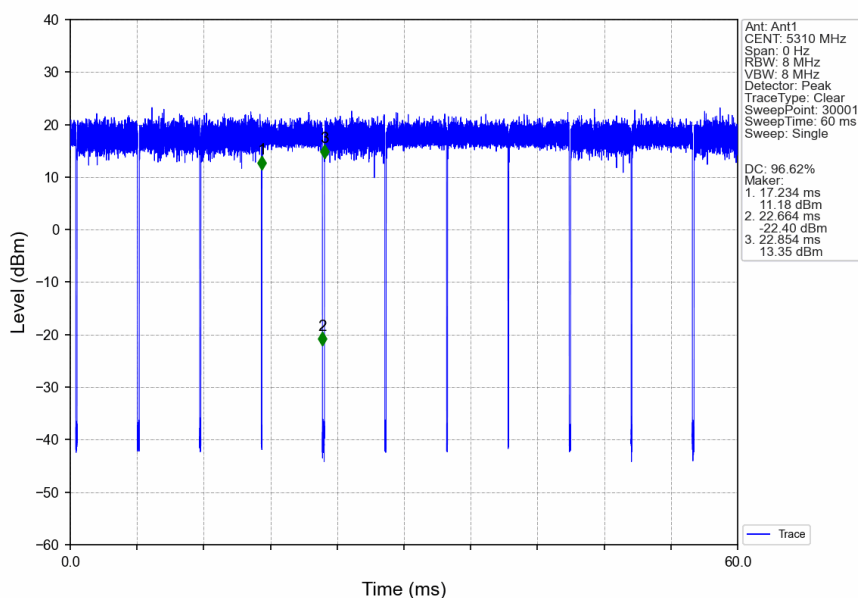
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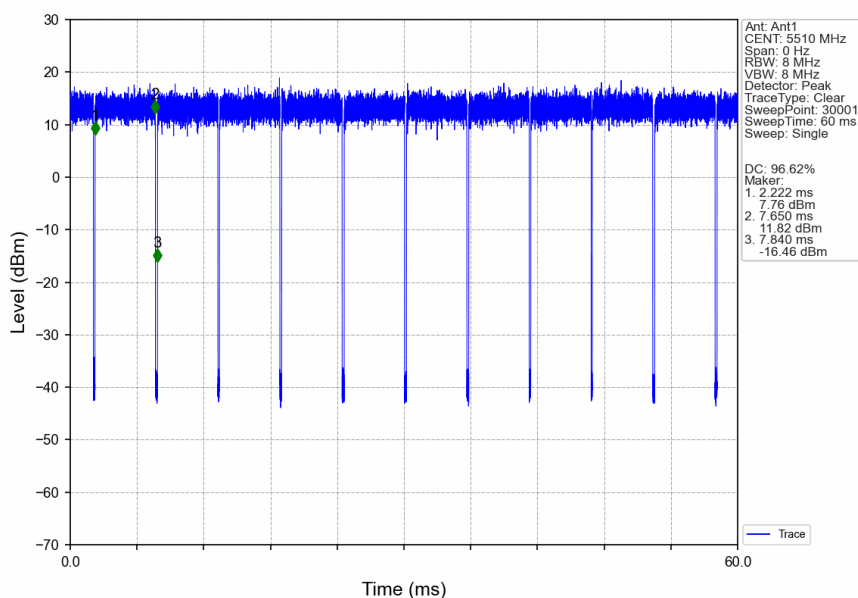
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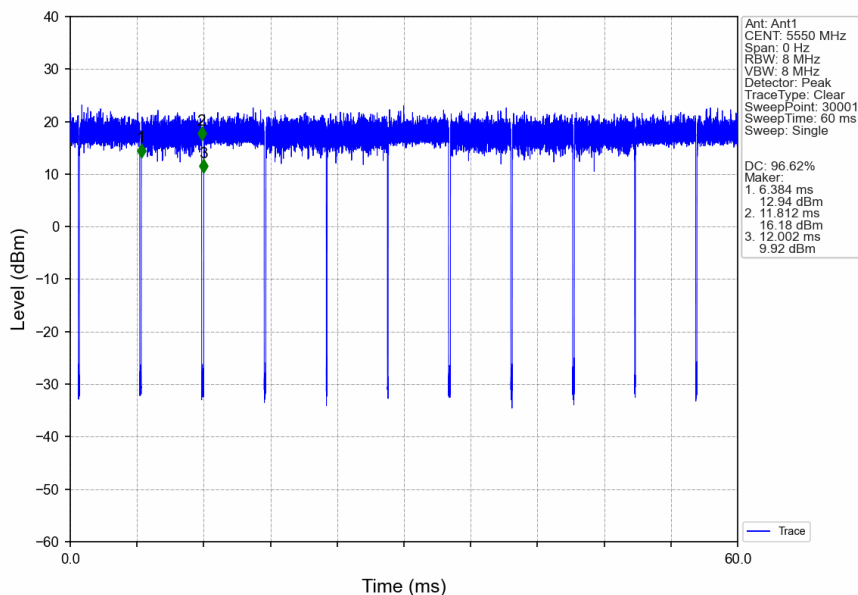
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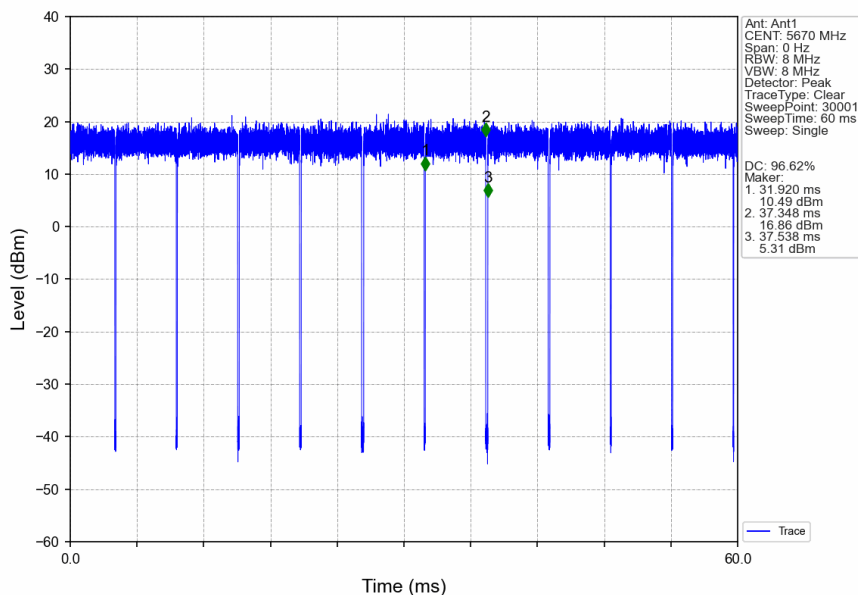
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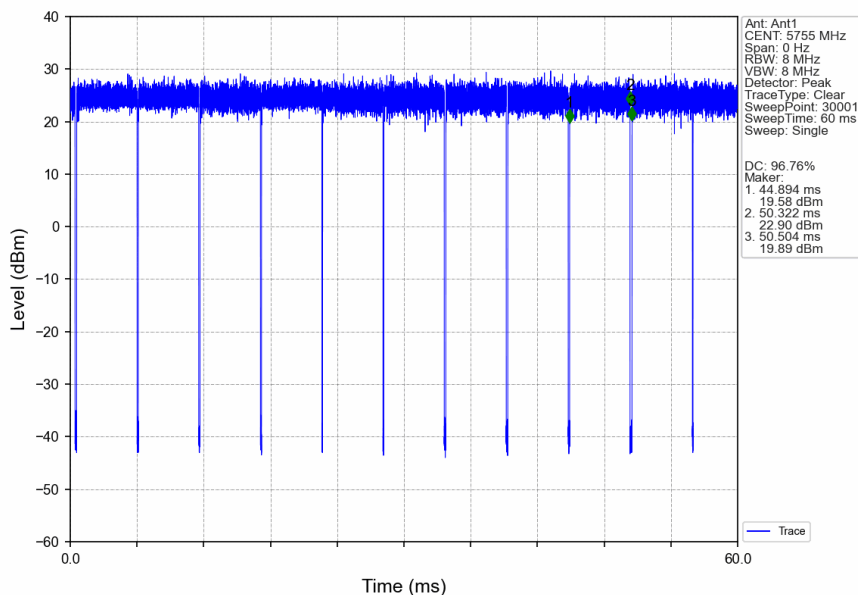
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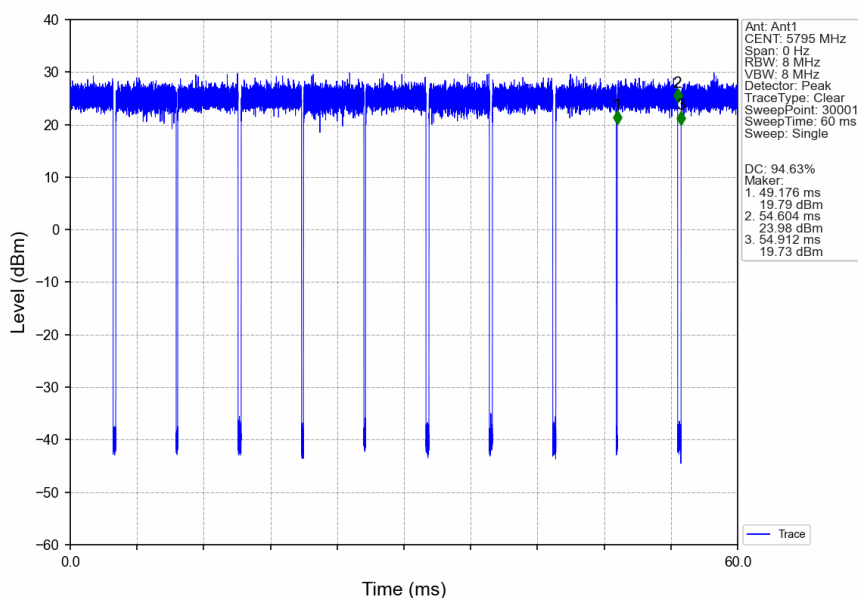
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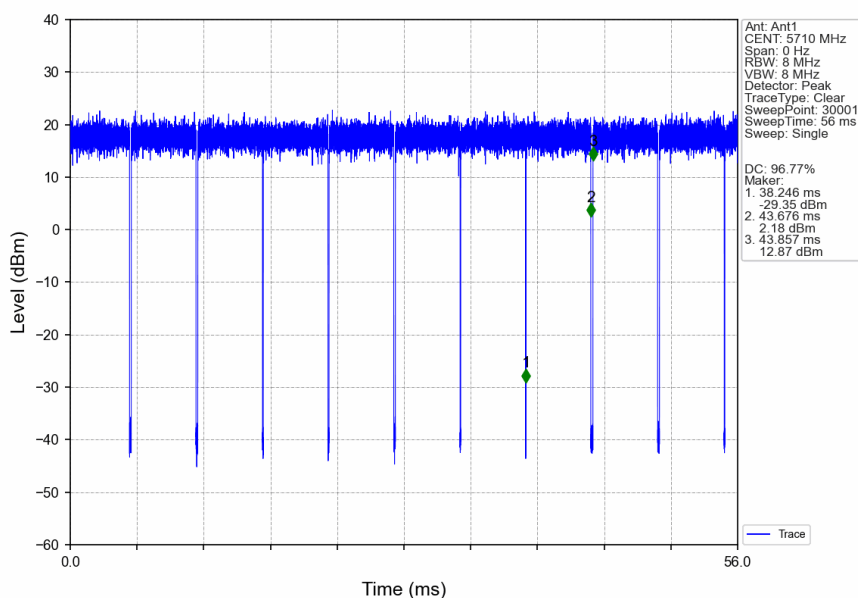
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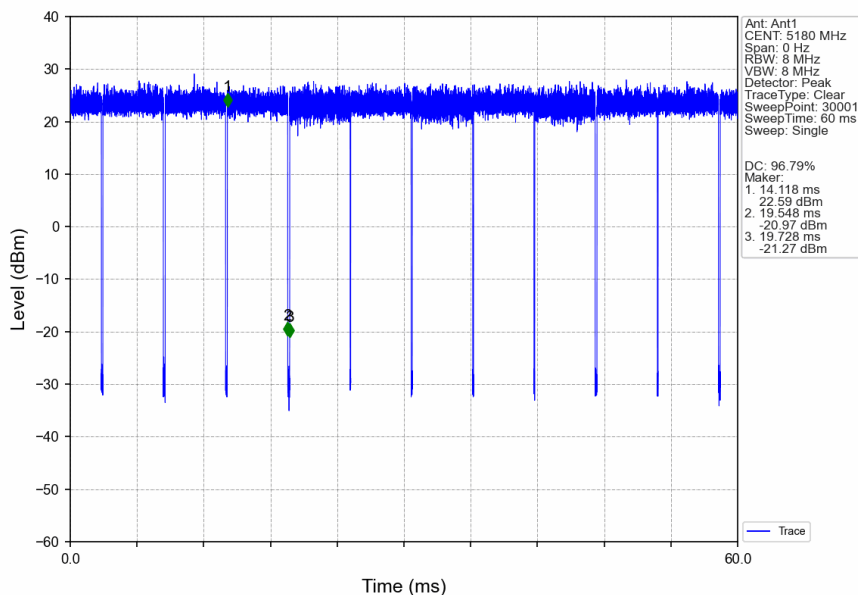
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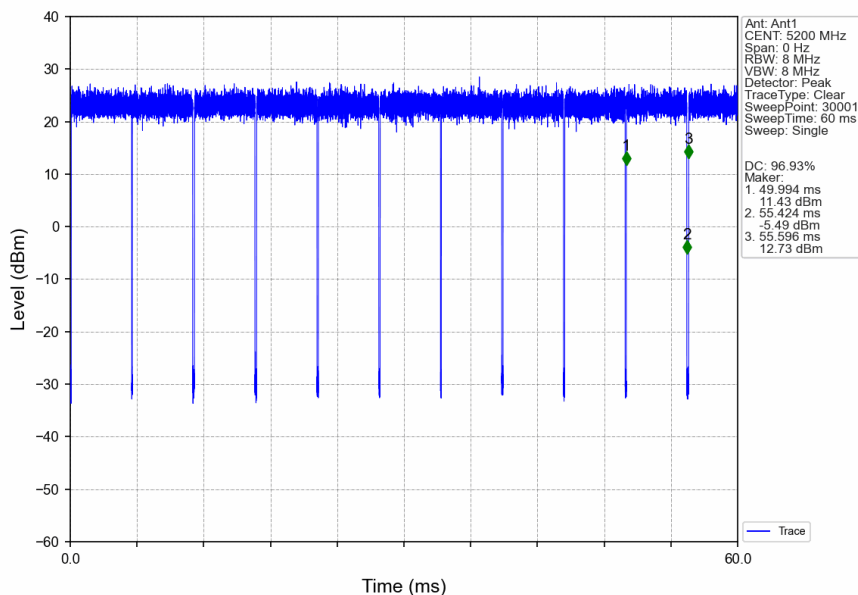
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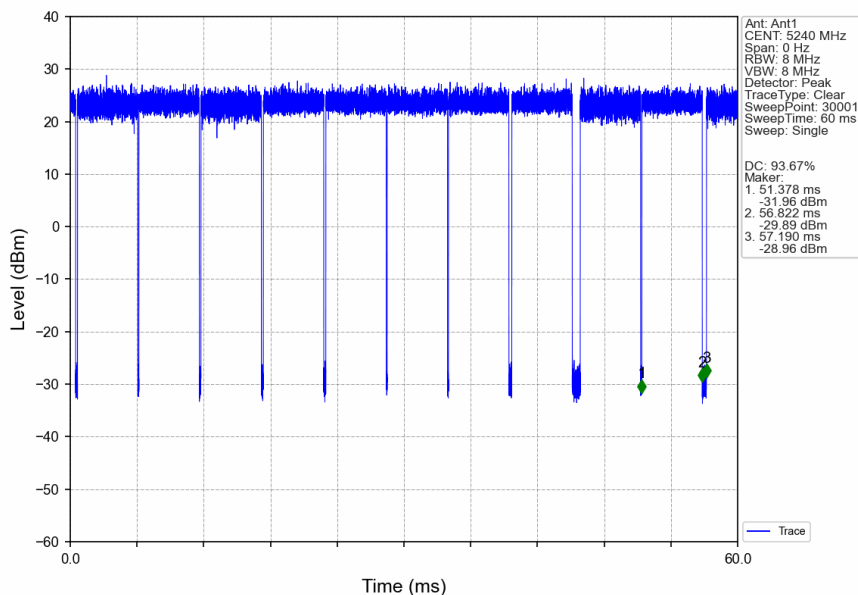
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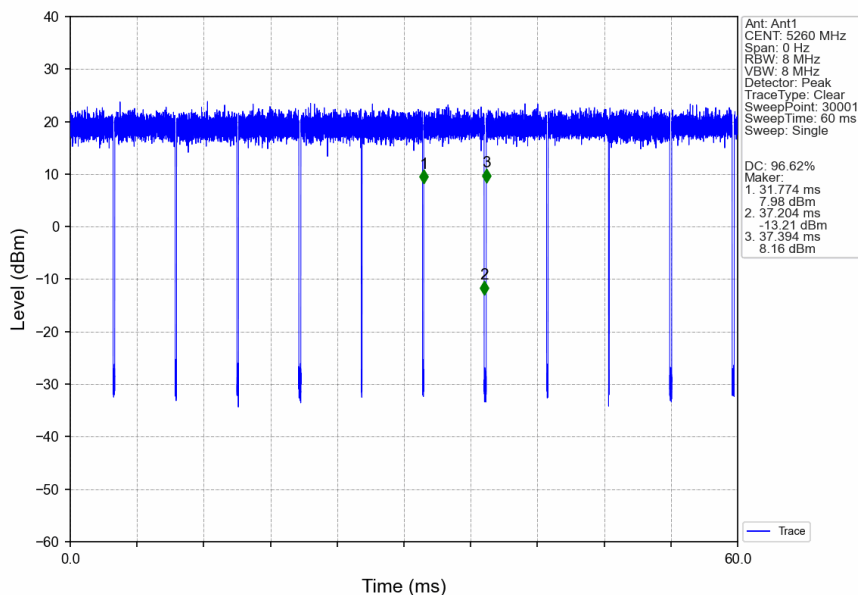
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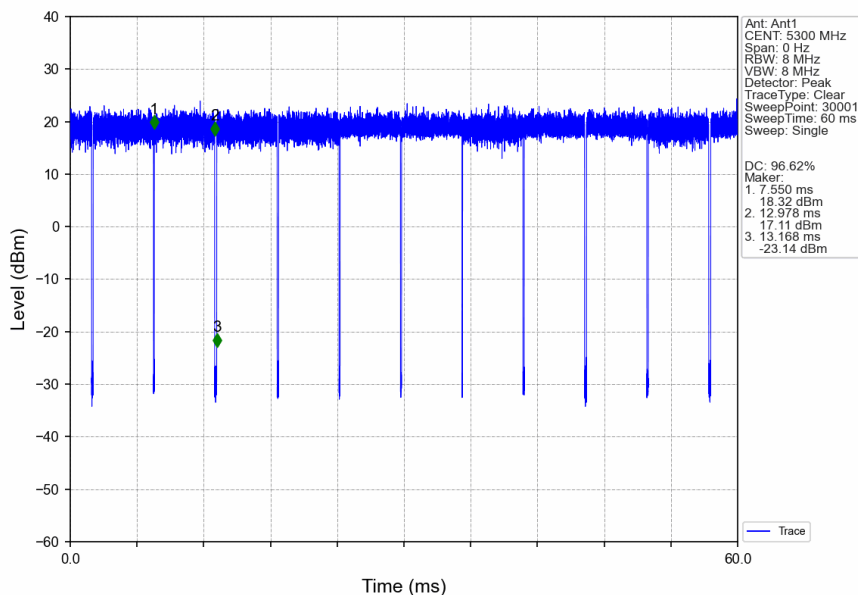
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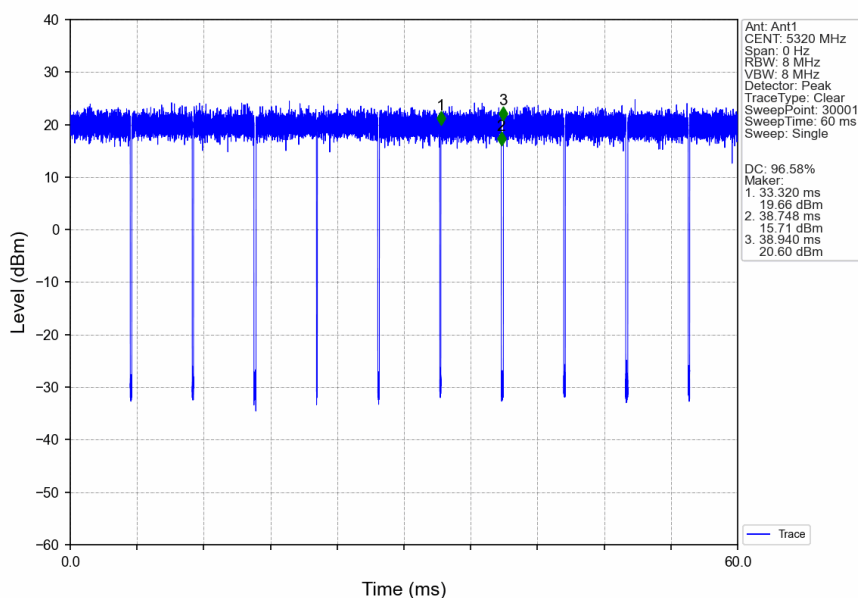
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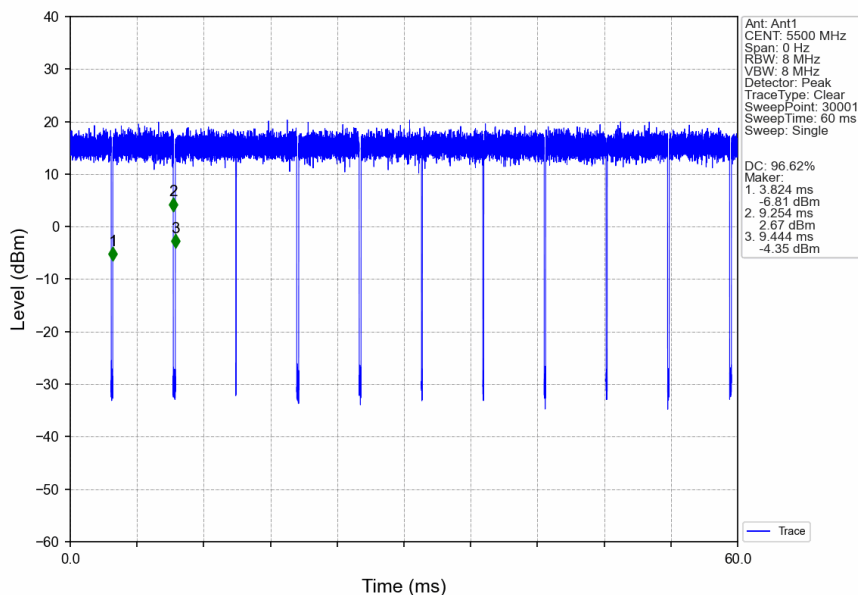
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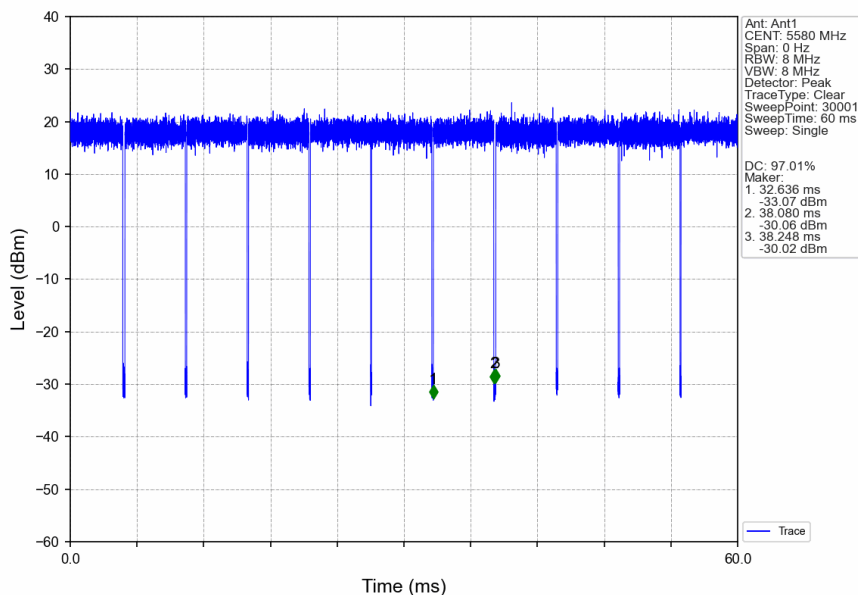
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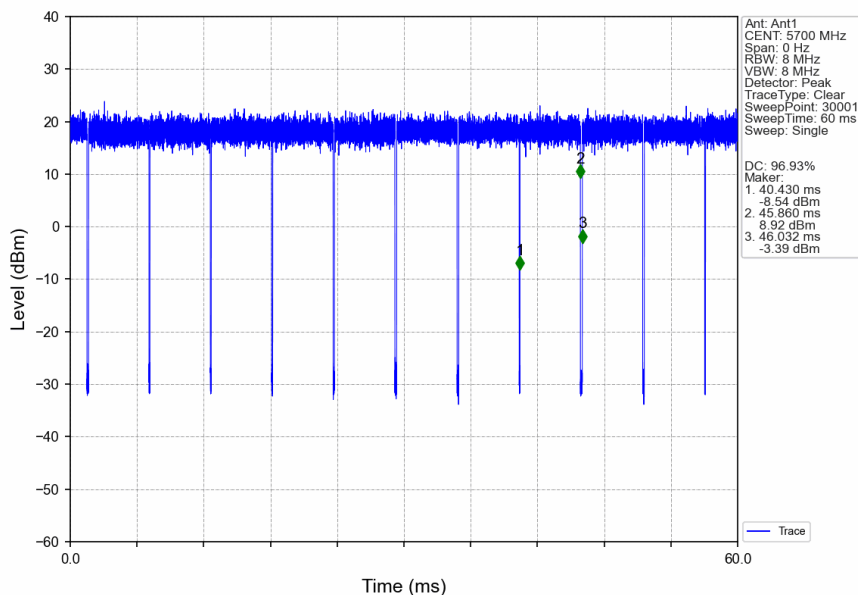
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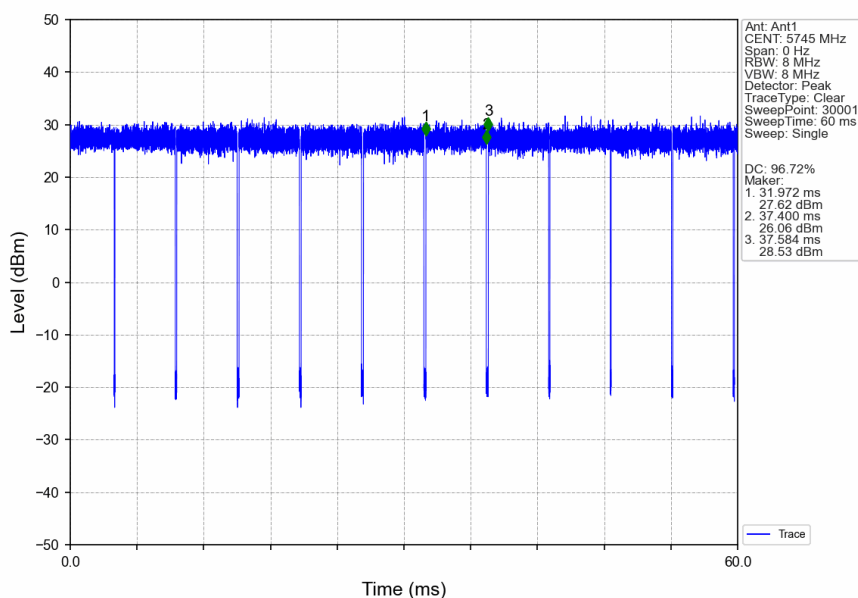
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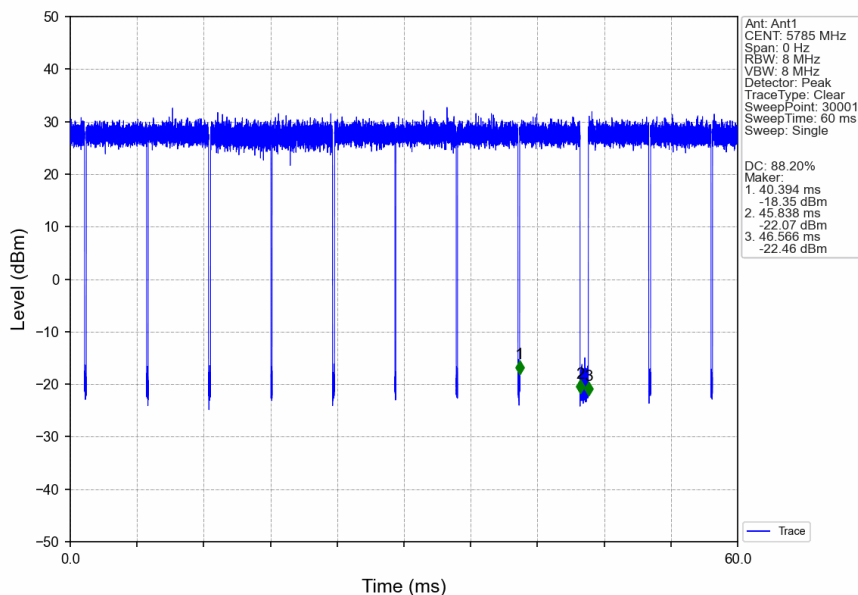
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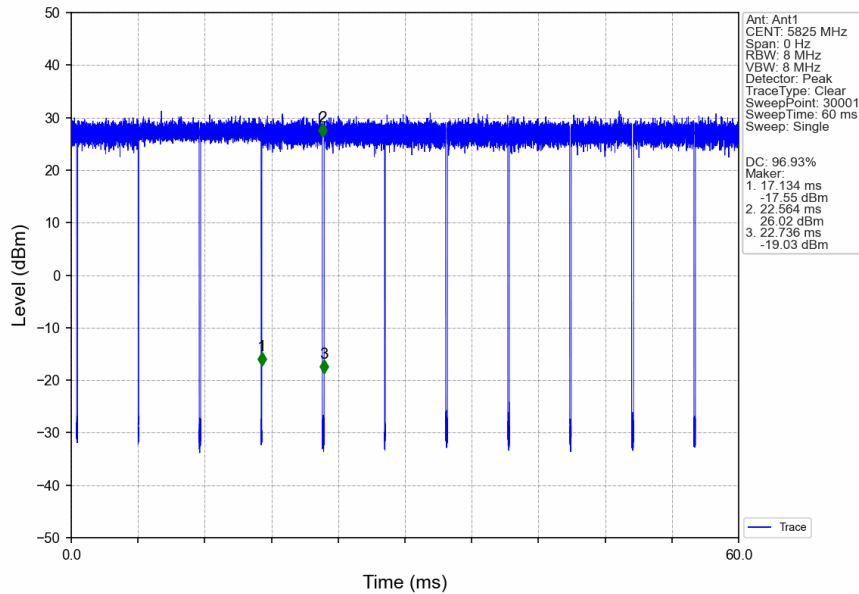
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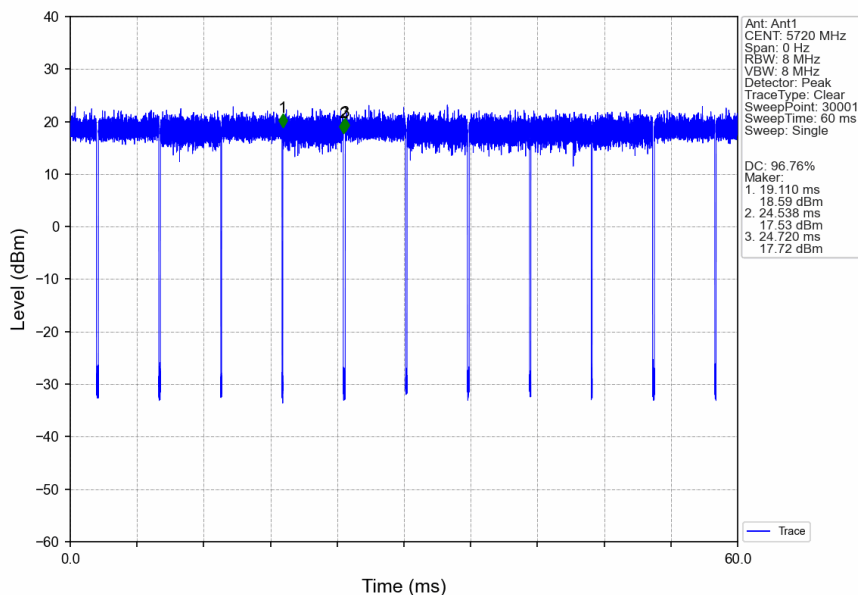
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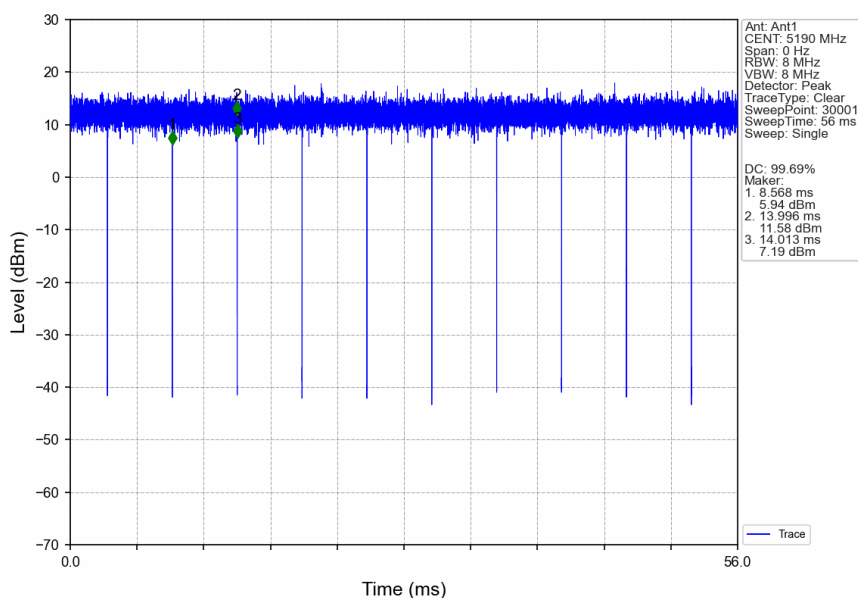
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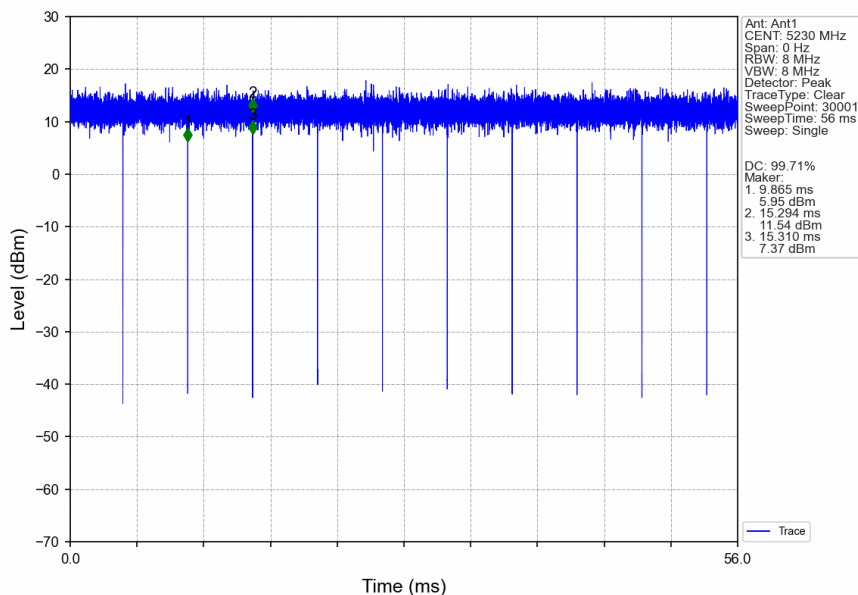
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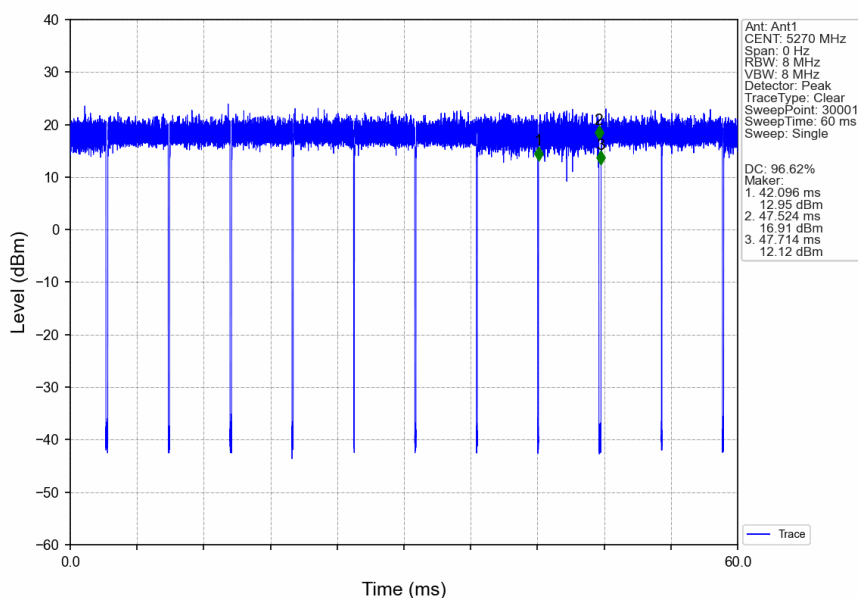
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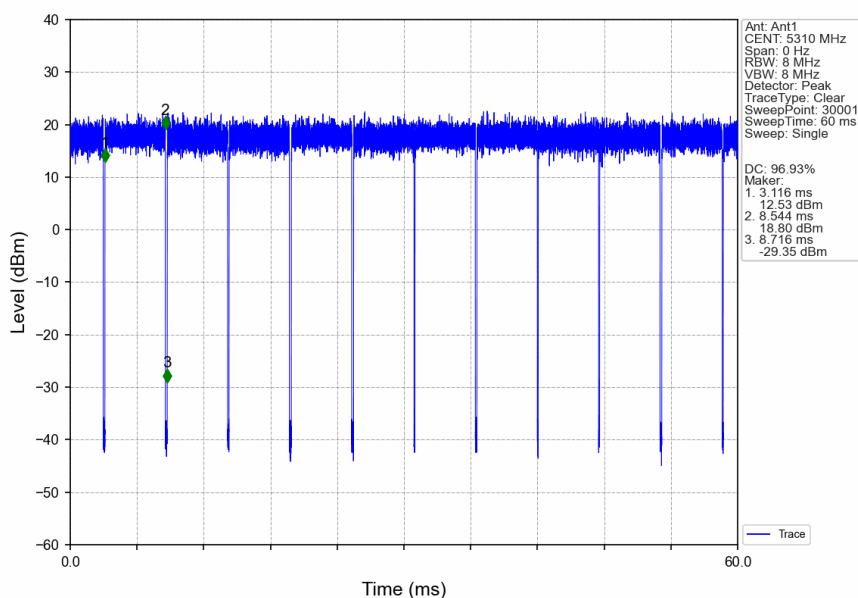
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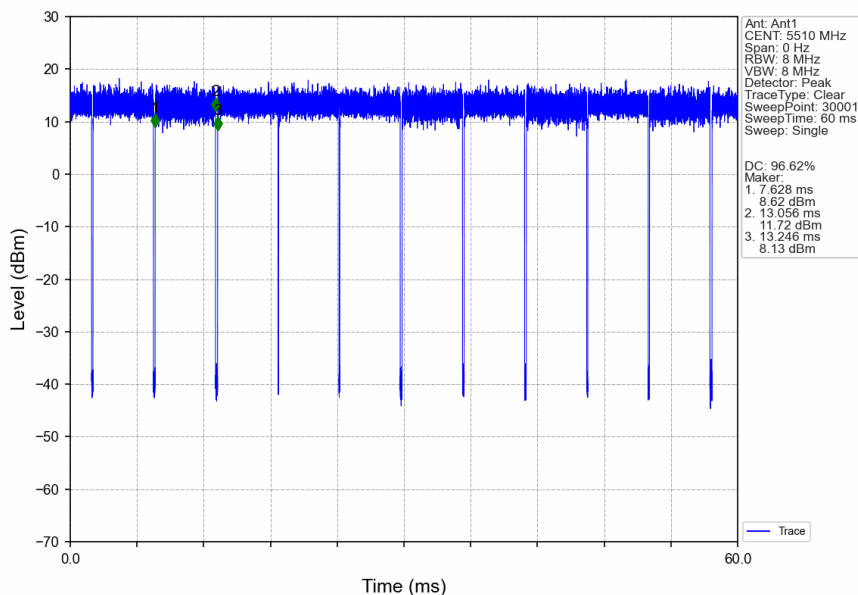
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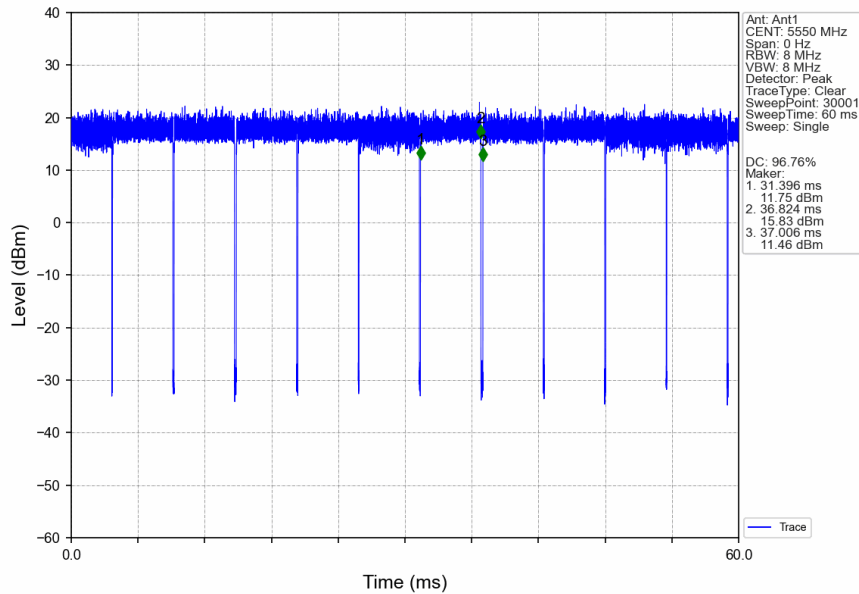
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



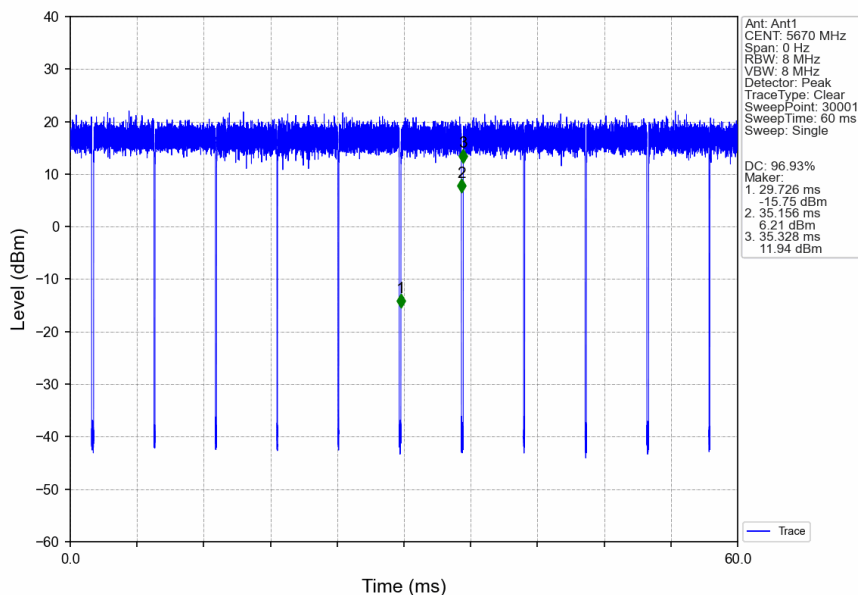
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



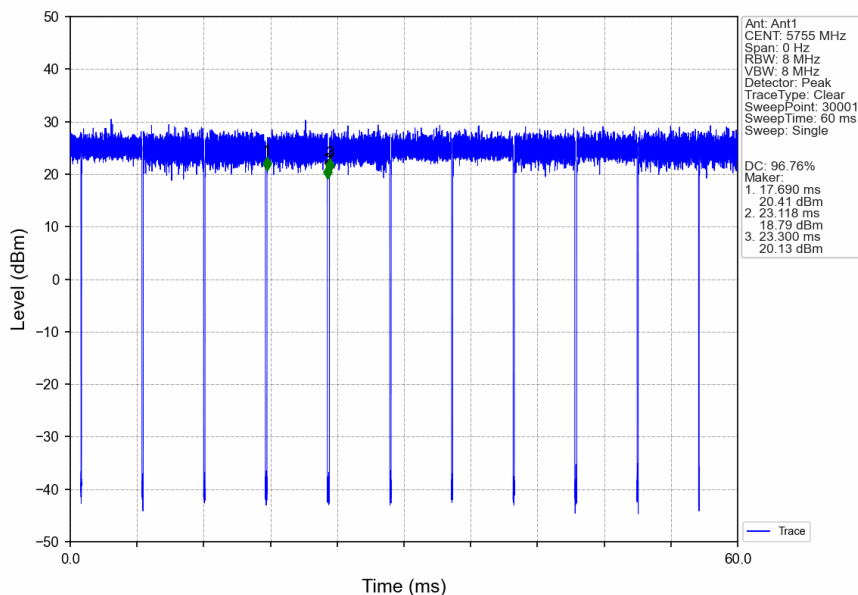
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



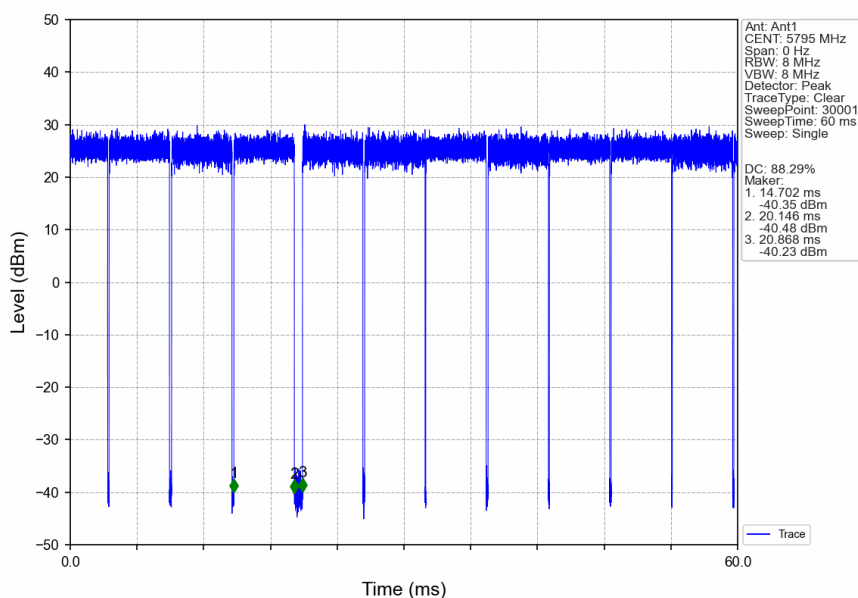
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



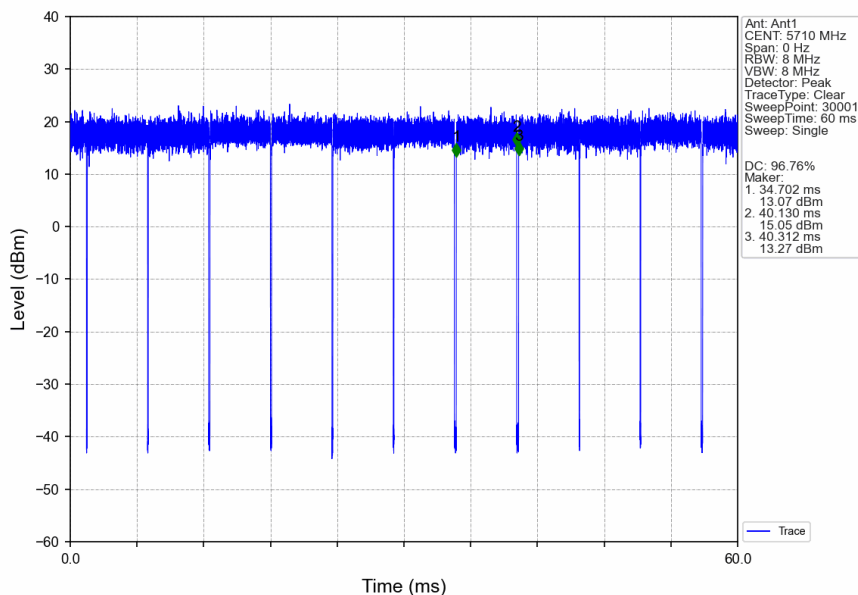
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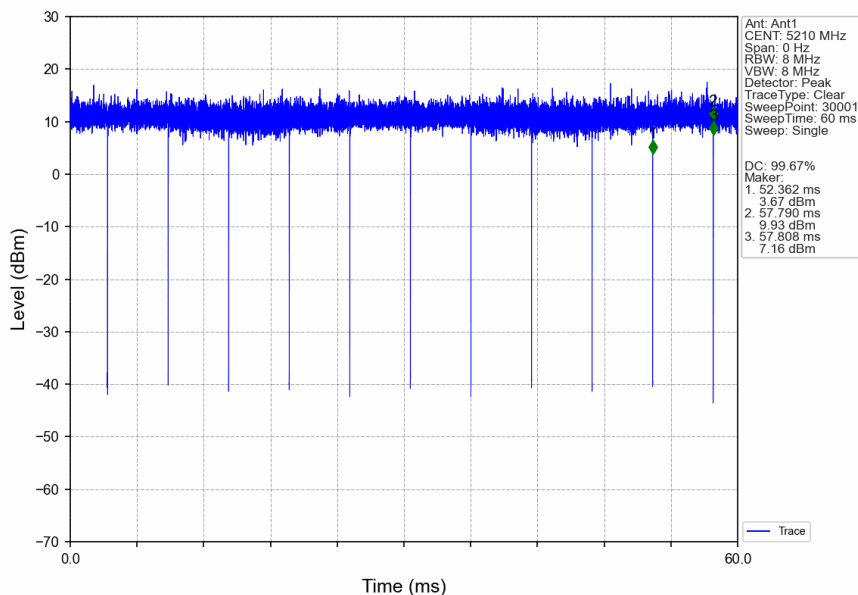
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802.11ac(VHT40)_HCH_5710MHz_Ant1_NTNV



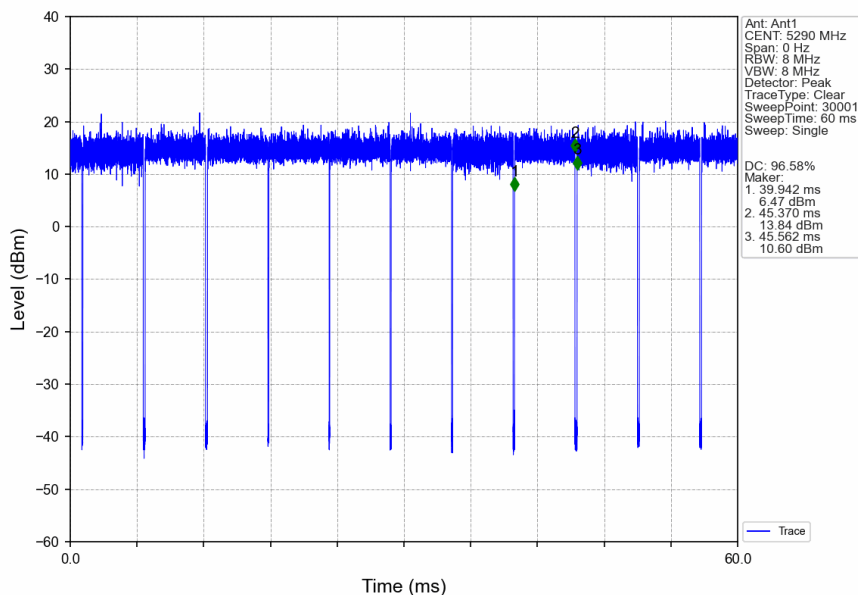
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



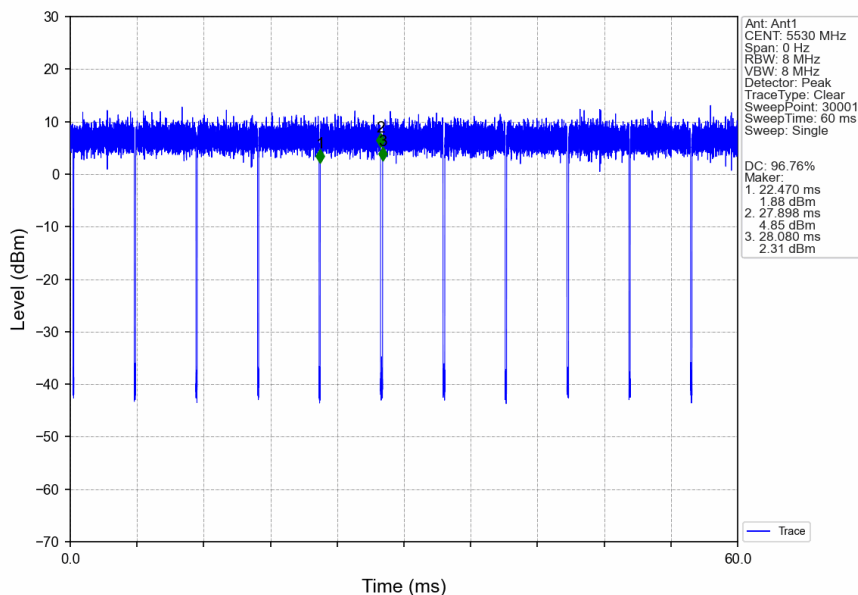
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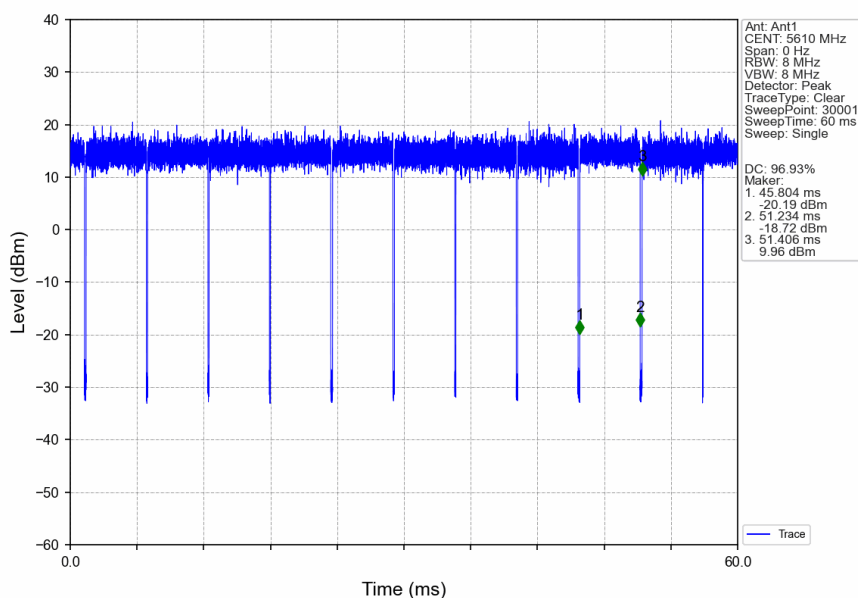
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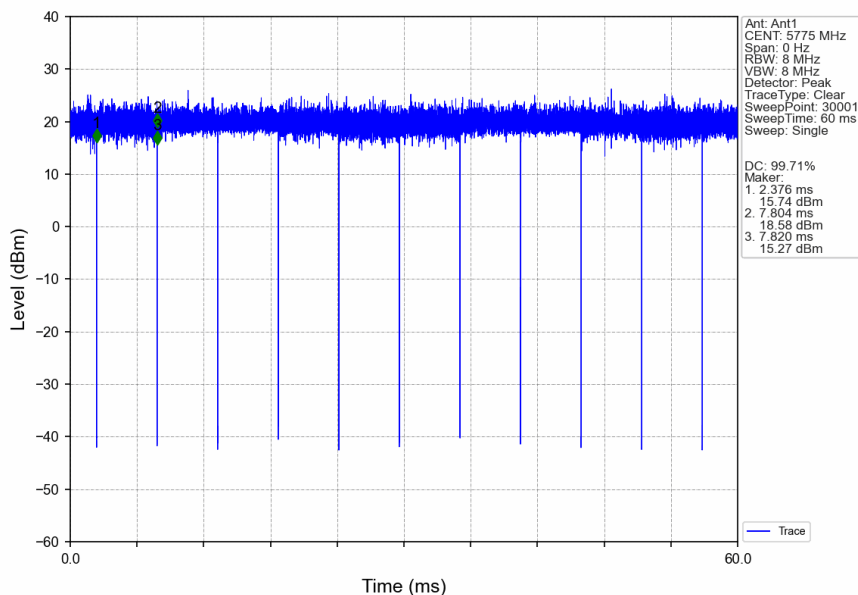
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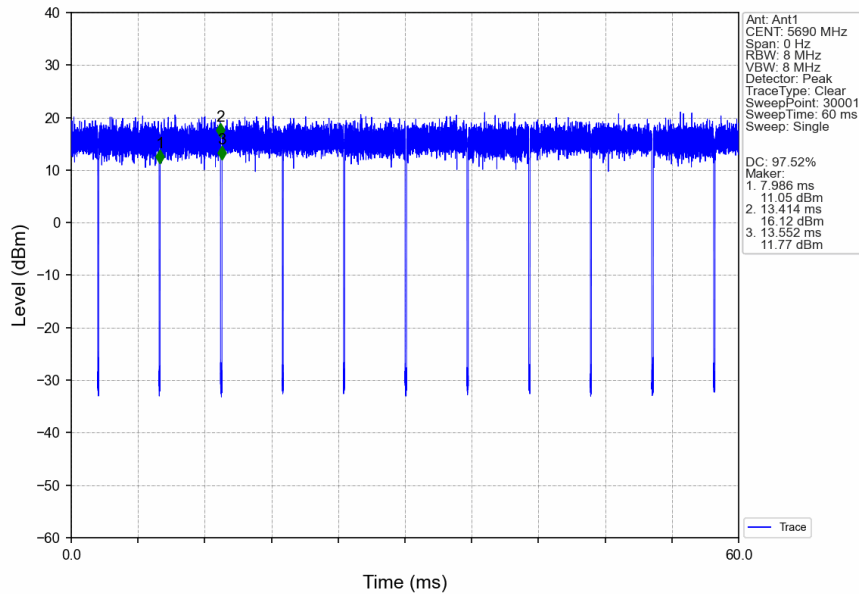
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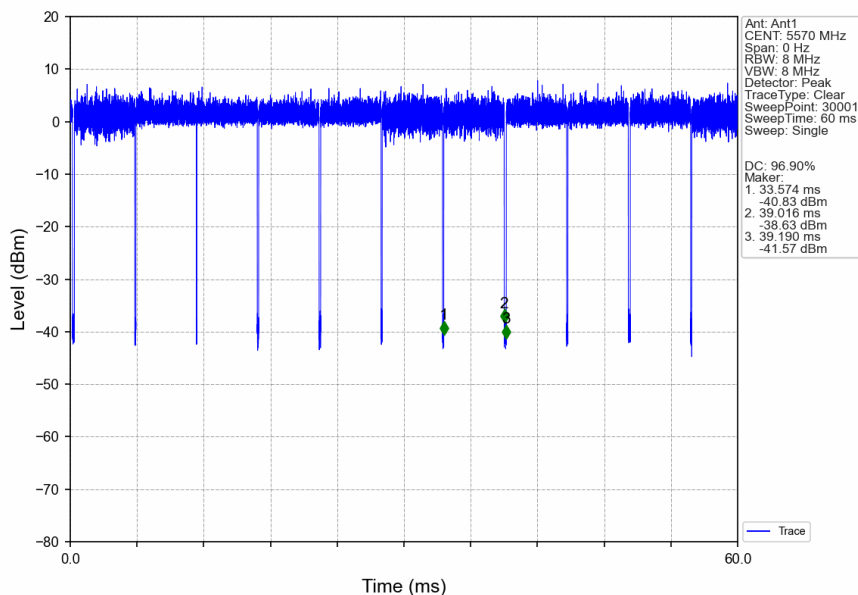
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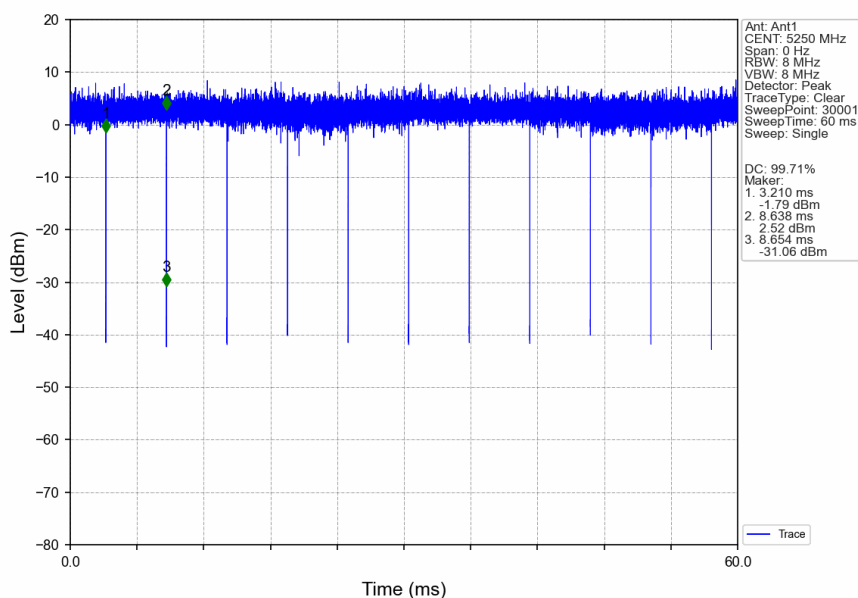
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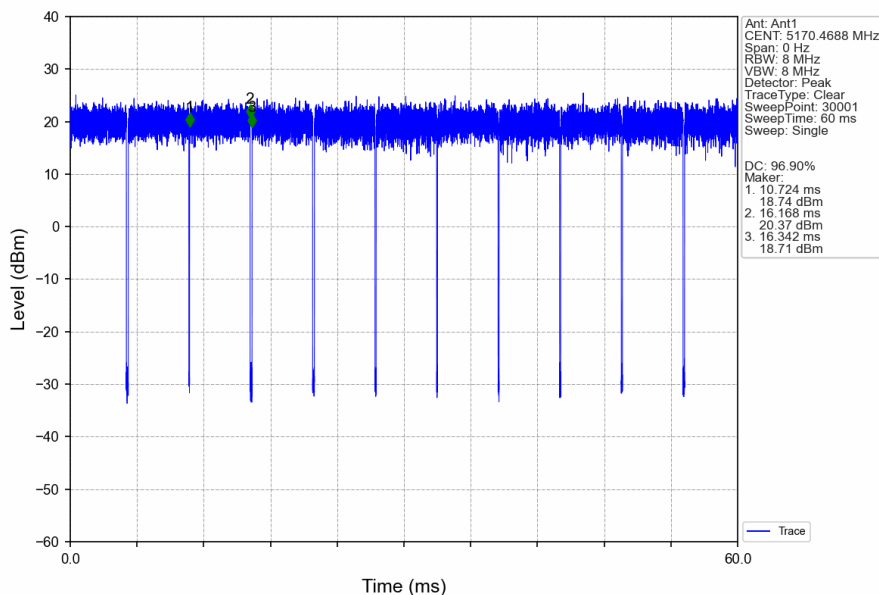
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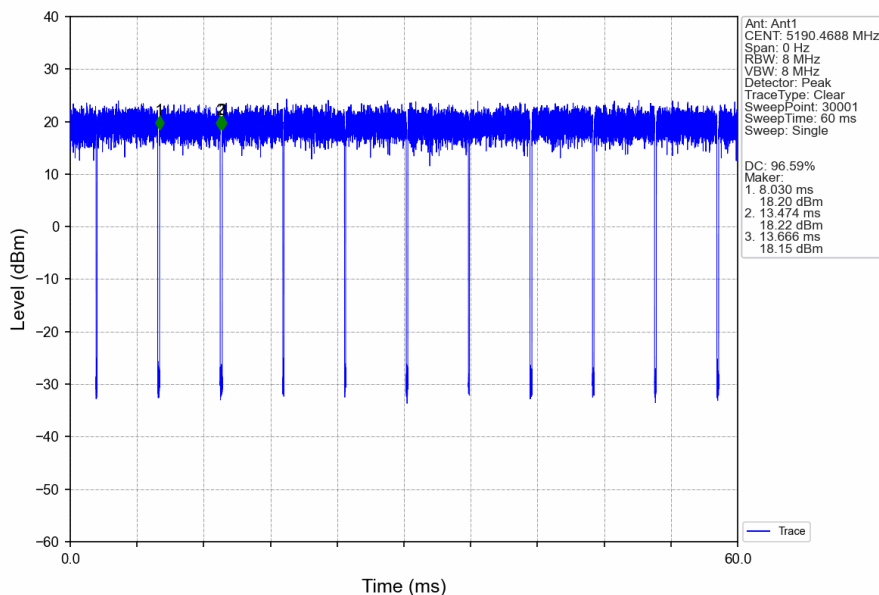
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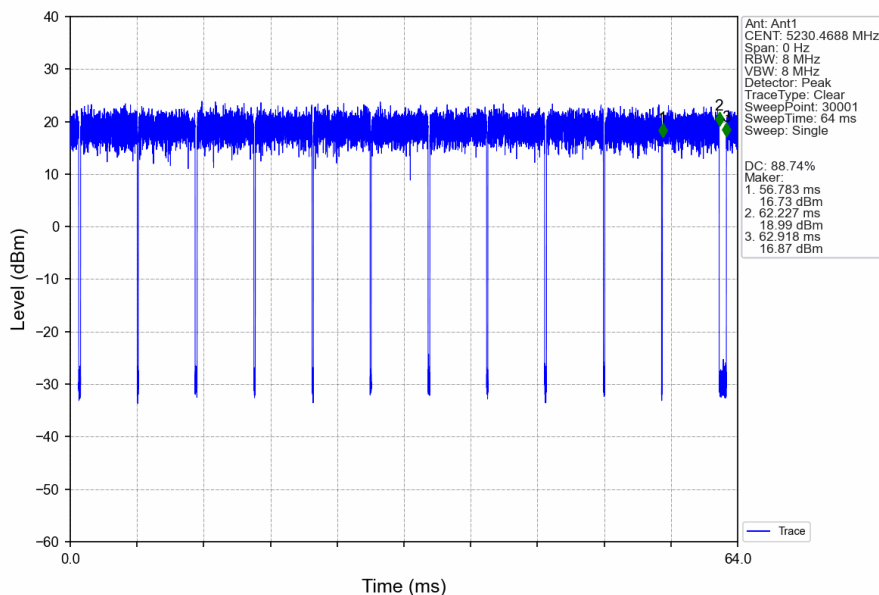
802.11ax(HEW20)_LCH_5180MHz_SU_ / _Ant1_NTNV



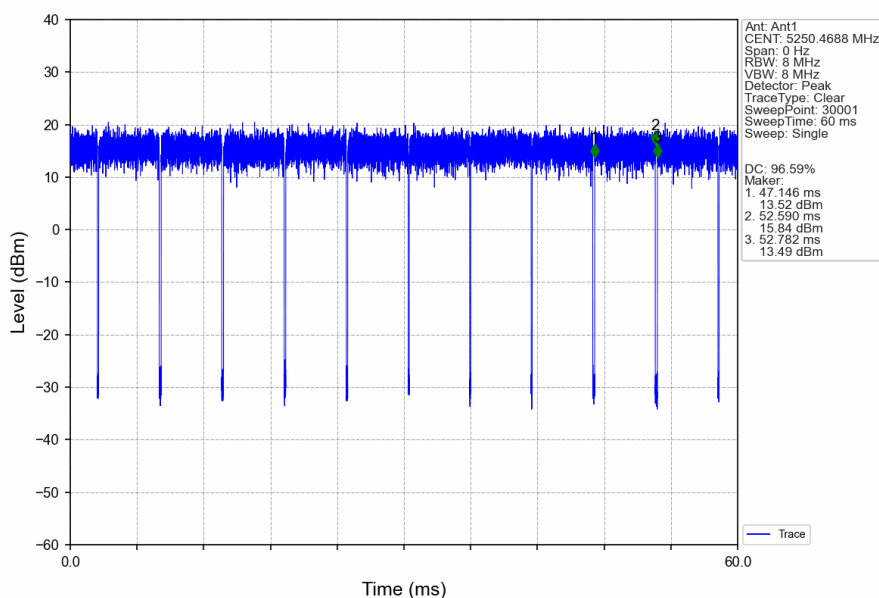
802.11ax(HEW20)_MCH_5200MHz_SU_ / _Ant1_NTNV



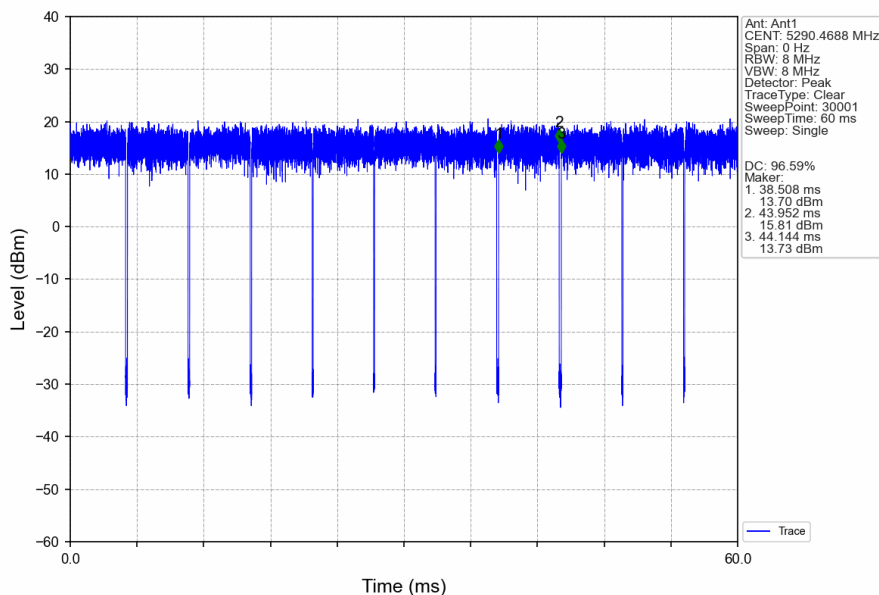
802.11ax(HEW20)_HCH_5240MHz_SU_/_Ant1_NTNV



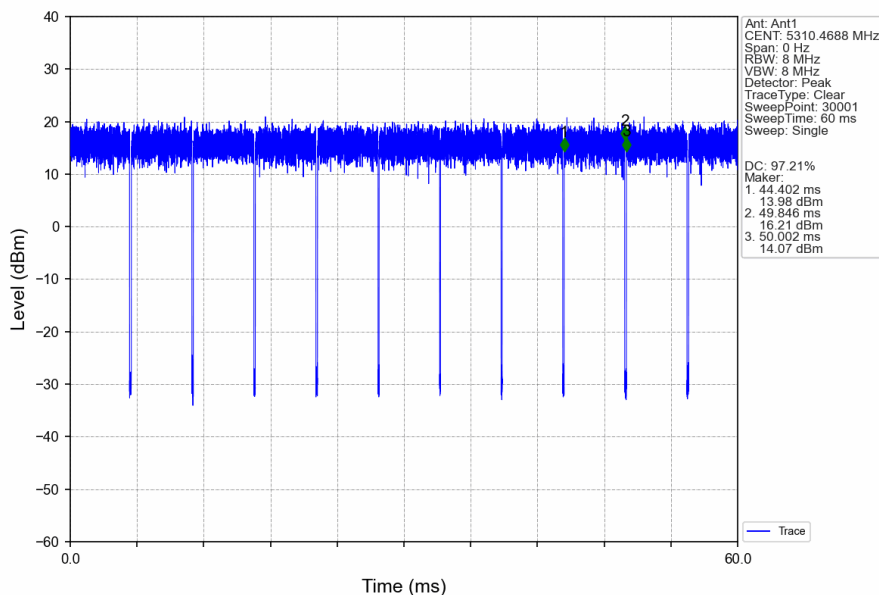
802.11ax(HEW20)_LCH_5260MHz_SU_ / _Ant1_NTNV



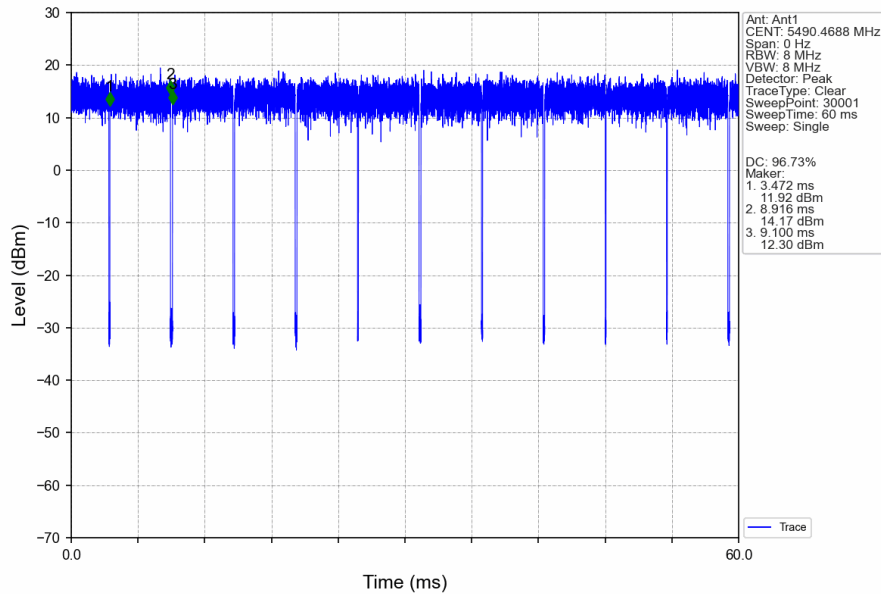
802.11ax(HEW20)_MCH_5300MHz_SU_/_Ant1_NTNV



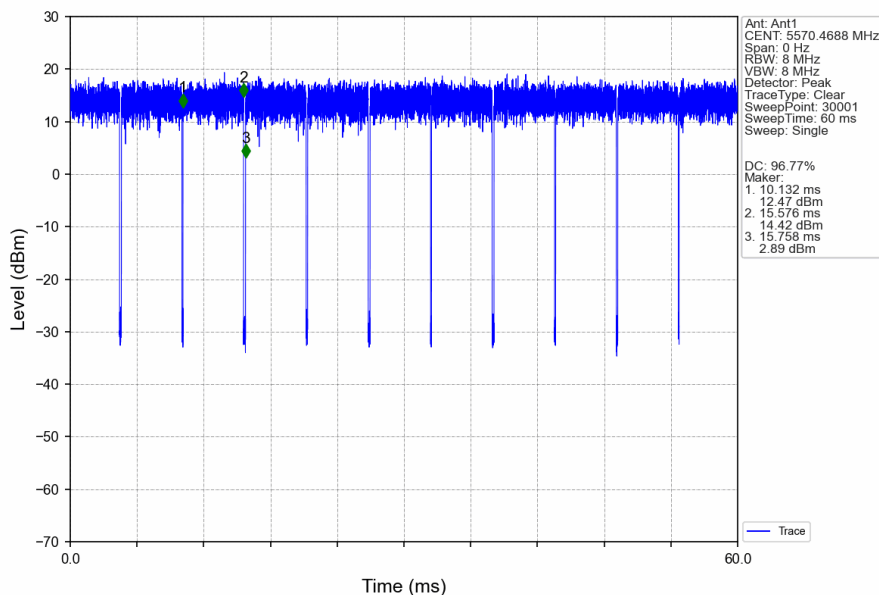
802.11ax(HEW20)_HCH_5320MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_LCH_5500MHz_SU_ / _Ant1_NTNV



802.11ax(HEW20)_MCH_5580MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_HCH_5700MHz_SU_/_Ant1_NTNV

