

7.14 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.

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 27.1 °C Humidity: 42.2 % RH Atmospheric Pressure: 1020 mbar



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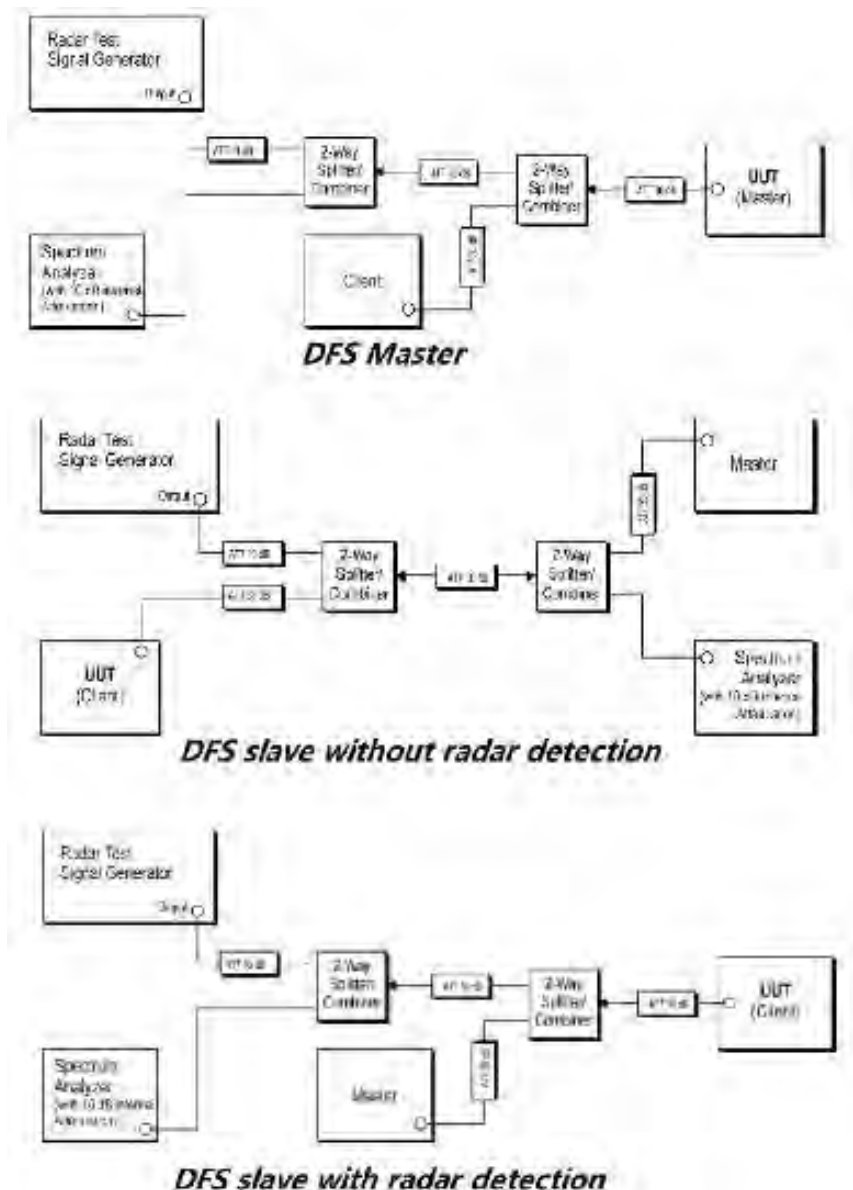
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7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



7.14.4 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

Please refer to SZCR2509003833WM Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2509003833WM.

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant12

Ant12									
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	/	/	1.393	1.436	97.01	0.13	0.09
		5200	/	/	1.393	1.435	97.07	0.13	0.03
		5240	/	/	1.392	1.435	97.00	0.13	0.03
		5260	/	/	1.392	1.435	97.00	0.13	0.03
		5300	/	/	1.393	1.435	97.07	0.13	0.03
		5320	/	/	1.392	1.435	97.00	0.13	0.03
		5500	/	/	1.393	1.436	97.01	0.13	0.03
		5580	/	/	1.392	1.435	97.00	0.13	0.00
		5700	/	/	1.393	1.435	97.07	0.13	0.03
		5745	/	/	1.393	1.436	97.01	0.13	0.03
		5785	/	/	1.392	1.435	97.00	0.13	0.06
		5825	/	/	1.392	1.435	97.00	0.13	0.03
802.11n (HT20)	MIMO	5180	/	/	1.300	1.343	96.80	0.14	0.03
		5200	/	/	1.301	1.344	96.80	0.14	0.07
		5240	/	/	1.300	1.343	96.80	0.14	0.03
		5260	/	/	1.300	1.343	96.80	0.14	0.03
		5300	/	/	1.300	1.342	96.87	0.14	0.03
		5320	/	/	1.300	1.343	96.80	0.14	0.04
		5500	/	/	1.300	1.343	96.80	0.14	0.03
		5580	/	/	1.300	1.343	96.80	0.14	0.03
		5700	/	/	1.301	1.343	96.87	0.14	0.03
		5745	/	/	1.300	1.343	96.80	0.14	0.00
		5785	/	/	1.300	1.343	96.80	0.14	0.03
		5825	/	/	1.300	1.343	96.80	0.14	0.07
802.11n	MIMO	5190	/	/	0.644	0.687	93.74	0.28	0.07

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(HT40)		5230	/	/	0.645	0.687	93.89	0.27	0.03
		5270	/	/	0.644	0.687	93.74	0.28	0.04
		5310	/	/	0.644	0.687	93.74	0.28	0.07
		5510	/	/	0.644	0.687	93.74	0.28	0.03
		5550	/	/	0.644	0.687	93.74	0.28	0.03
		5670	/	/	0.644	0.687	93.74	0.28	0.04
		5755	/	/	0.645	0.687	93.89	0.27	0.04
		5795	/	/	0.644	0.687	93.74	0.28	0.07
		5710	/	/	0.645	0.687	93.89	0.27	0.04
802.11ac (VHT20)	MIMO	5180	/	/	1.308	1.351	96.82	0.14	0.00
		5200	/	/	1.308	1.351	96.82	0.14	0.03
		5240	/	/	1.308	1.351	96.82	0.14	0.00
		5260	/	/	1.308	1.351	96.82	0.14	0.00
		5300	/	/	1.309	1.351	96.89	0.14	0.03
		5320	/	/	1.309	1.351	96.89	0.14	0.03
		5500	/	/	1.309	1.352	96.82	0.14	0.03
		5580	/	/	1.308	1.351	96.82	0.14	0.03
		5700	/	/	1.309	1.351	96.89	0.14	0.03
		5745	/	/	1.309	1.351	96.89	0.14	0.03
		5785	/	/	1.309	1.352	96.82	0.14	0.07
		5825	/	/	1.308	1.351	96.82	0.14	0.03
		5720	/	/	1.308	1.351	96.82	0.14	0.03
802.11ac (VHT40)	MIMO	5190	/	/	0.652	0.695	93.81	0.28	0.07
		5230	/	/	0.652	0.695	93.81	0.28	0.07
		5270	/	/	0.652	0.695	93.81	0.28	0.03
		5310	/	/	0.653	0.695	93.96	0.27	0.03
		5510	/	/	0.653	0.695	93.96	0.27	0.03
		5550	/	/	0.652	0.695	93.81	0.28	0.03
		5670	/	/	0.653	0.696	93.82	0.28	0.03
		5755	/	/	0.652	0.695	93.81	0.28	0.04
		5795	/	/	0.652	0.695	93.81	0.28	0.00
802.11ac (VHT80)	MIMO	5710	/	/	0.652	0.695	93.81	0.28	0.03
		5210	/	/	0.325	0.367	88.56	0.53	0.04
		5290	/	/	0.325	0.368	88.32	0.54	0.16
		5530	/	/	0.325	0.367	88.56	0.53	0.16
		5610	/	/	0.324	0.367	88.28	0.54	0.07
		5775	/	/	0.324	0.367	88.28	0.54	0.16
802.11ax (HEW20)	MIMO	5690	/	/	0.324	0.367	88.28	0.54	0.20
		5180	RU242	Left	1.014	1.057	95.93	0.18	0.00
		5200	RU242	Left	1.014	1.057	95.93	0.18	0.03

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		5240	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5260	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5300	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5320	RU242	Left	1.013	1.056	95.93	0.18	0.03
		5500	RU242	Left	1.014	1.058	95.84	0.18	0.07
		5580	RU242	Left	1.014	1.056	96.02	0.18	0.04
		5700	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5745	RU242	Left	1.014	1.057	95.93	0.18	0.03
		5785	RU242	Left	1.014	1.057	95.93	0.18	0.07
		5825	RU242	Left	1.013	1.057	95.84	0.18	0.03
		5720	RU242	Left	1.014	1.057	95.93	0.18	0.07
802.11ax (HEW40)	MIMO	5190	RU484	Left	0.533	0.577	92.37	0.34	0.03
		5230	RU484	Left	0.534	0.577	92.55	0.34	0.03
		5270	RU484	Left	0.534	0.577	92.55	0.34	0.03
		5310	RU484	Left	0.534	0.577	92.55	0.34	0.03
		5510	RU484	Left	0.534	0.577	92.55	0.34	0.07
		5550	RU484	Left	0.534	0.577	92.55	0.34	0.04
		5670	RU484	Left	0.534	0.577	92.55	0.34	0.03
		5755	RU484	Left	0.533	0.577	92.37	0.34	0.03
		5795	RU484	Left	0.534	0.577	92.55	0.34	0.03
		5710	RU484	Left	0.534	0.577	92.55	0.34	0.03
802.11ax (HEW80)	MIMO	5210	RU996	Left	0.289	0.331	87.31	0.59	0.06
		5290	RU996	Left	0.290	0.331	87.61	0.57	0.05
		5530	RU996	Left	0.288	0.331	87.01	0.60	0.03
		5610	RU996	Left	0.289	0.330	87.58	0.58	0.06
		5775	RU996	Left	0.288	0.331	87.01	0.60	0.03
		5690	RU996	Left	0.289	0.331	87.31	0.59	0.09



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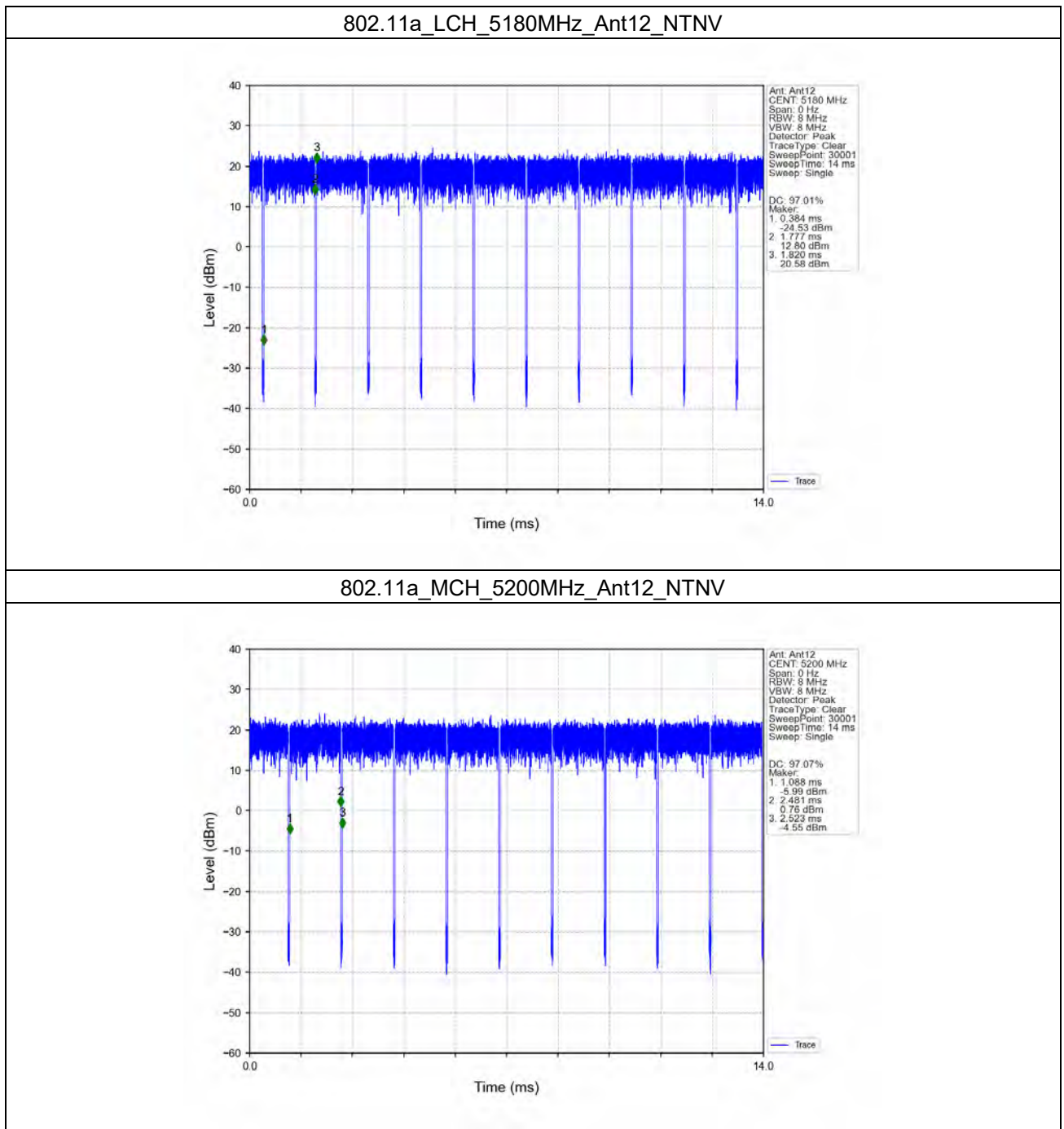
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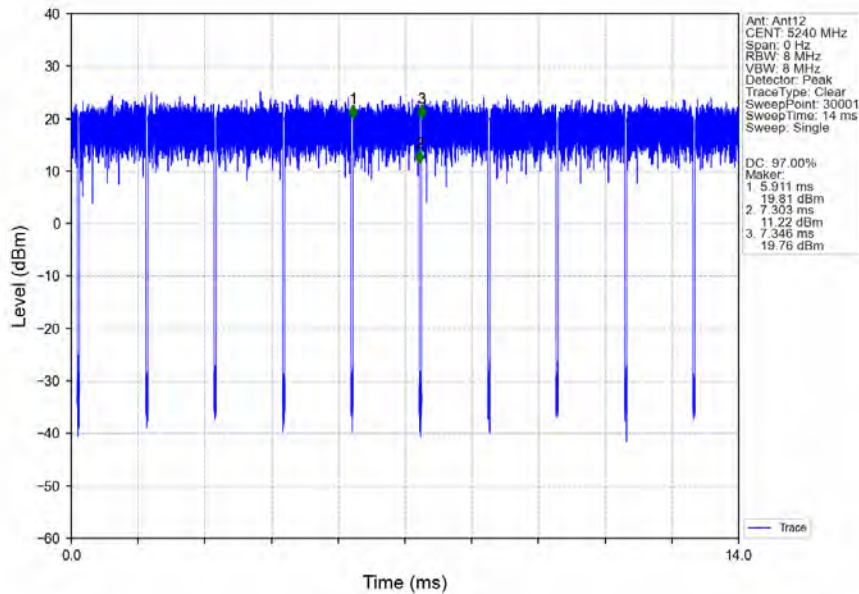
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1.2 Test Graph

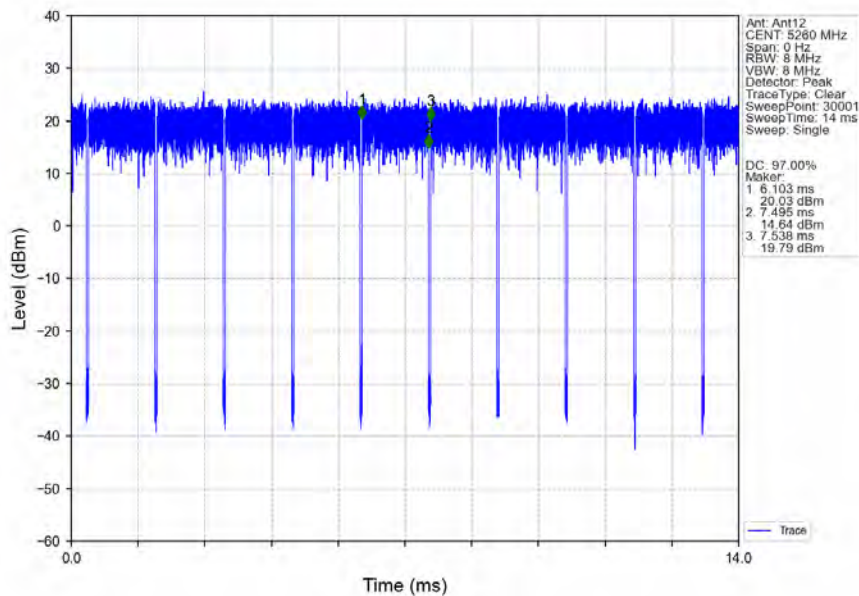
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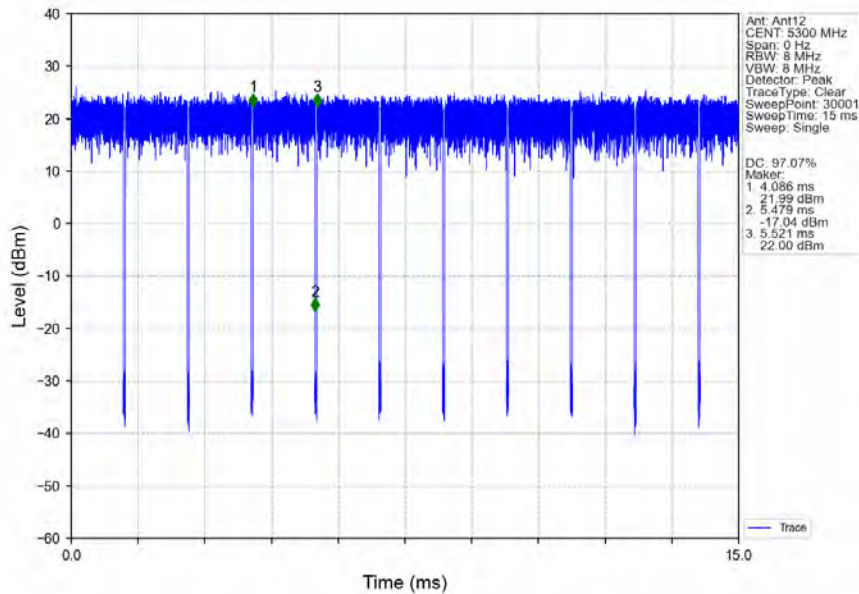
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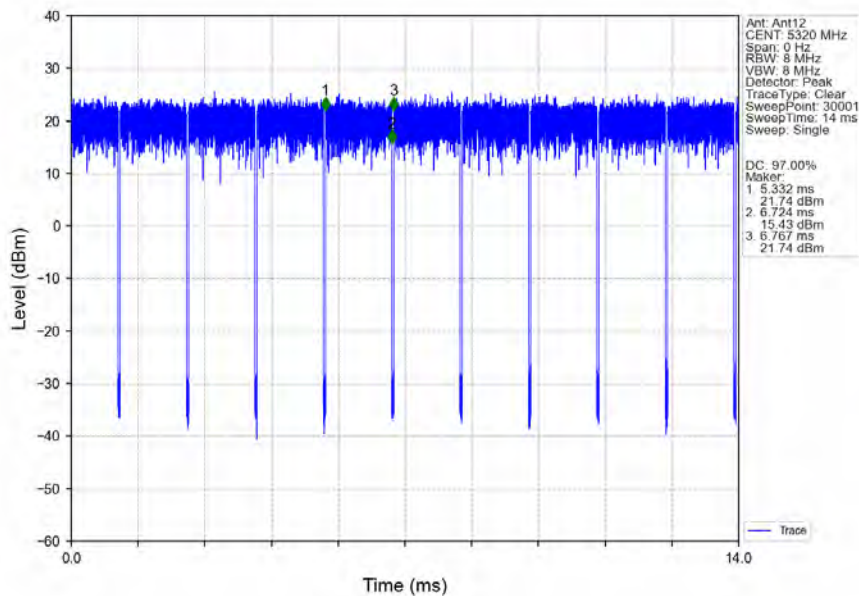
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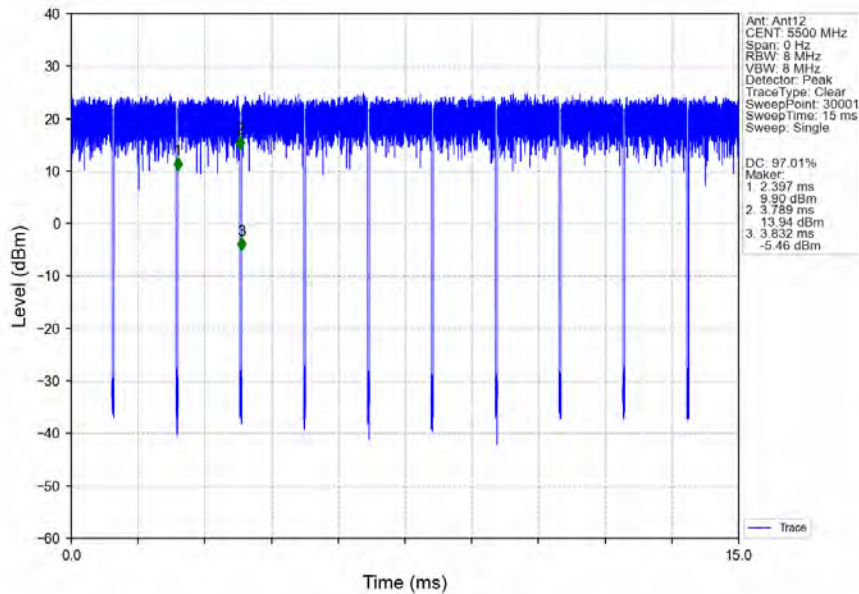
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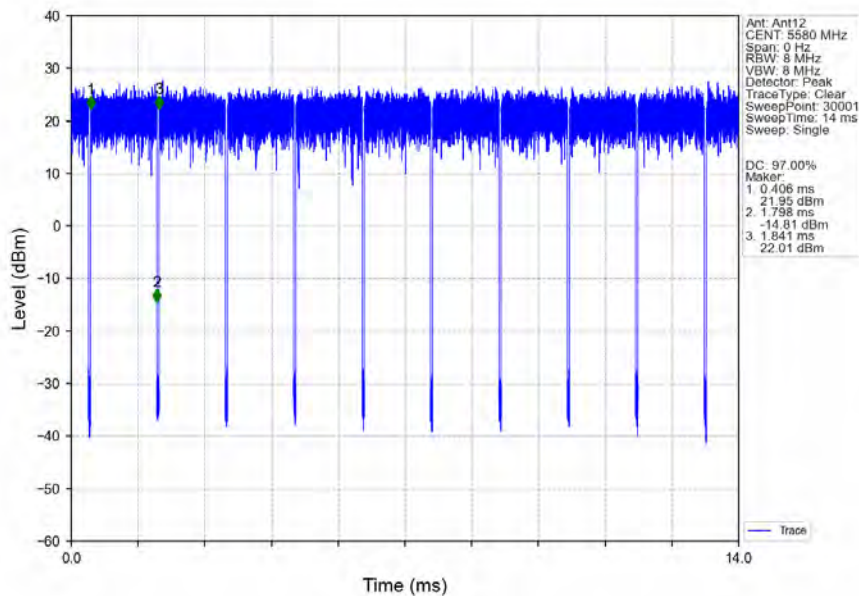
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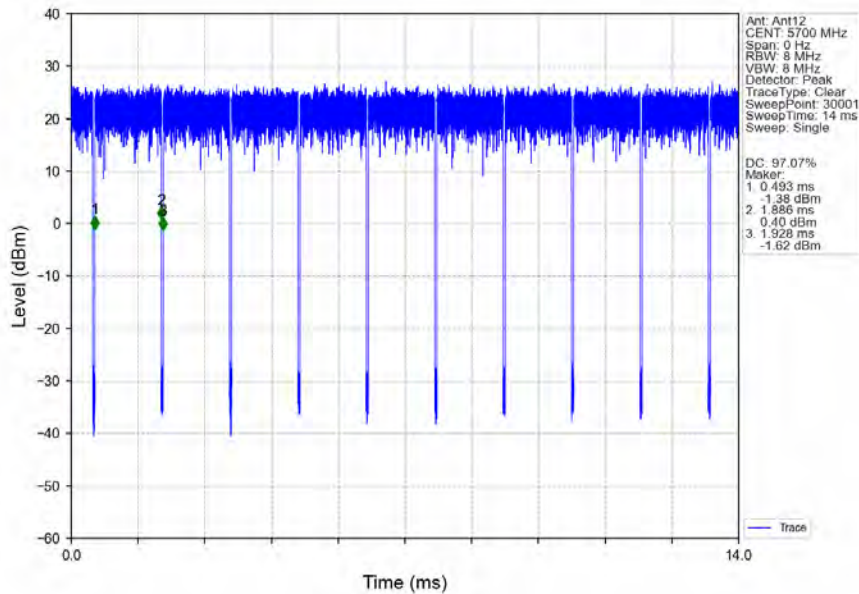
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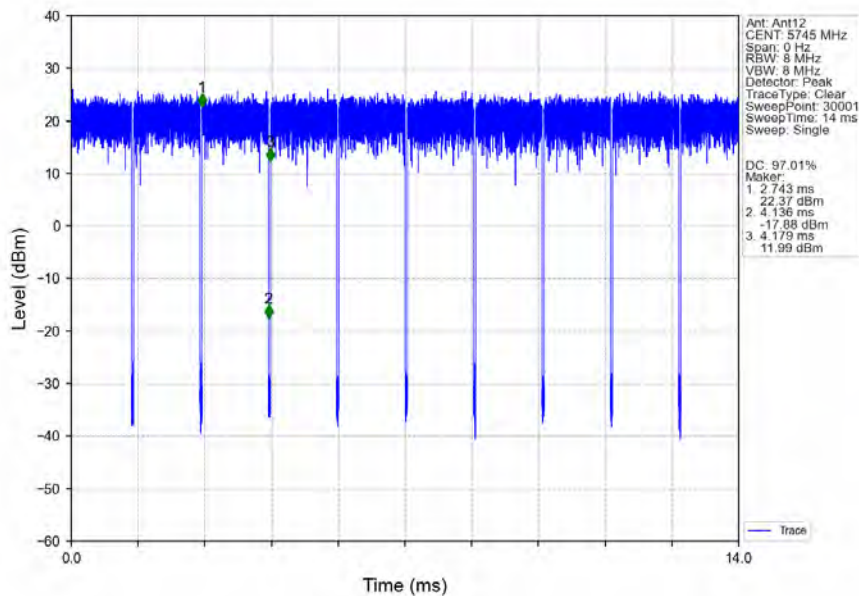
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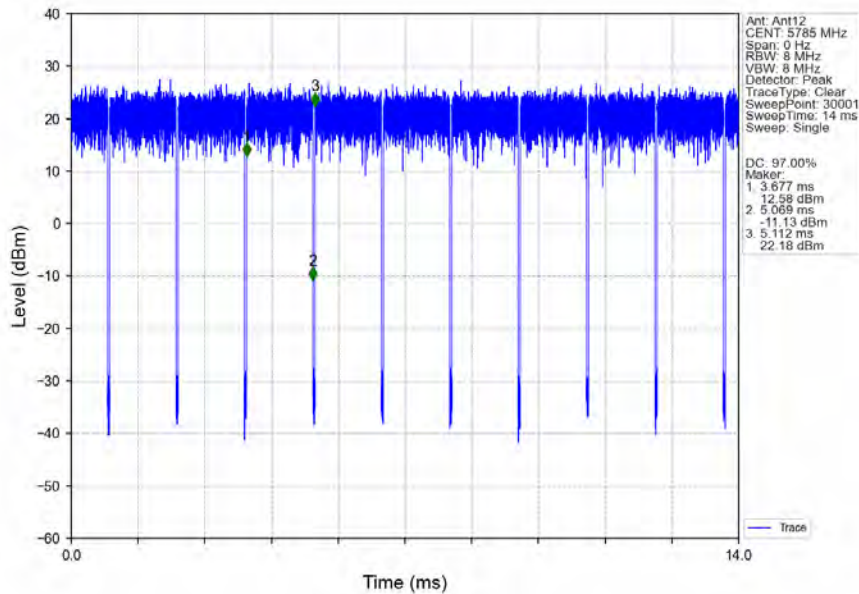
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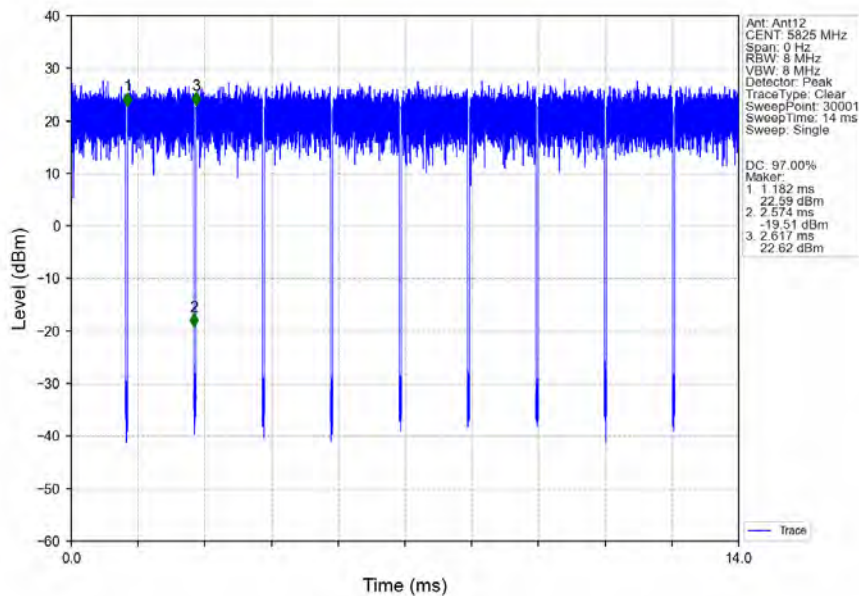
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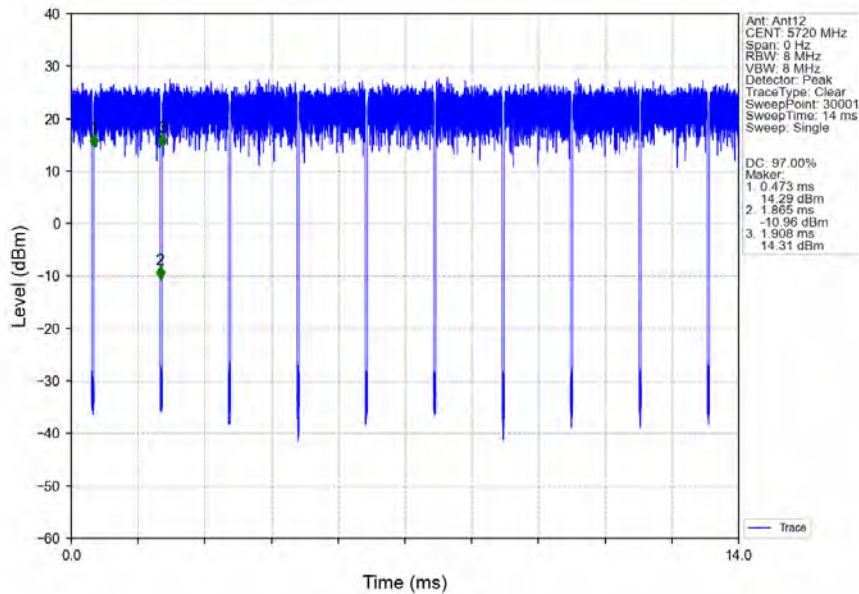
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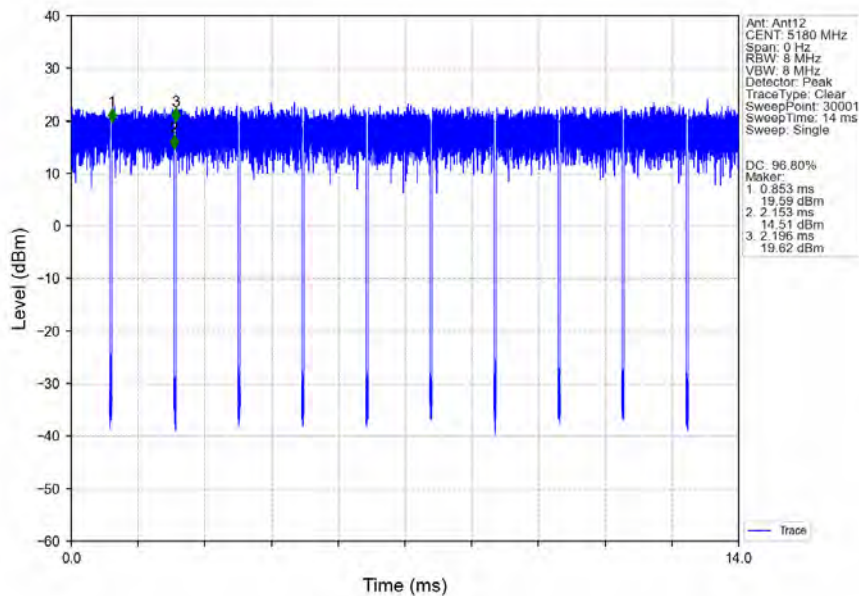
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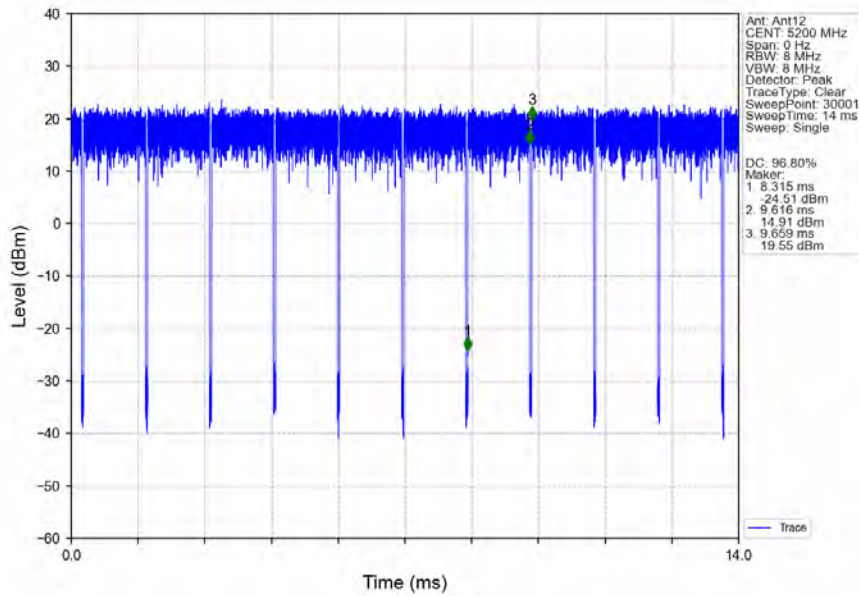
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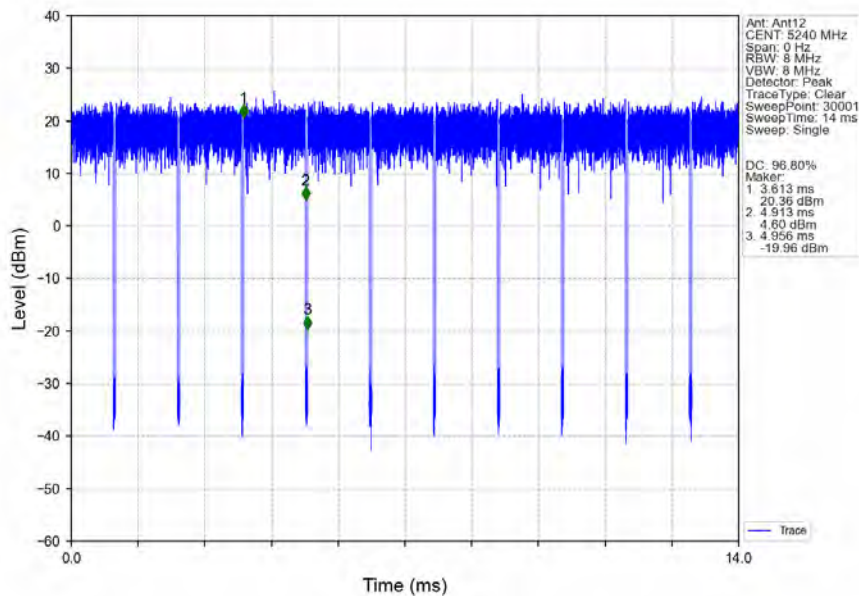
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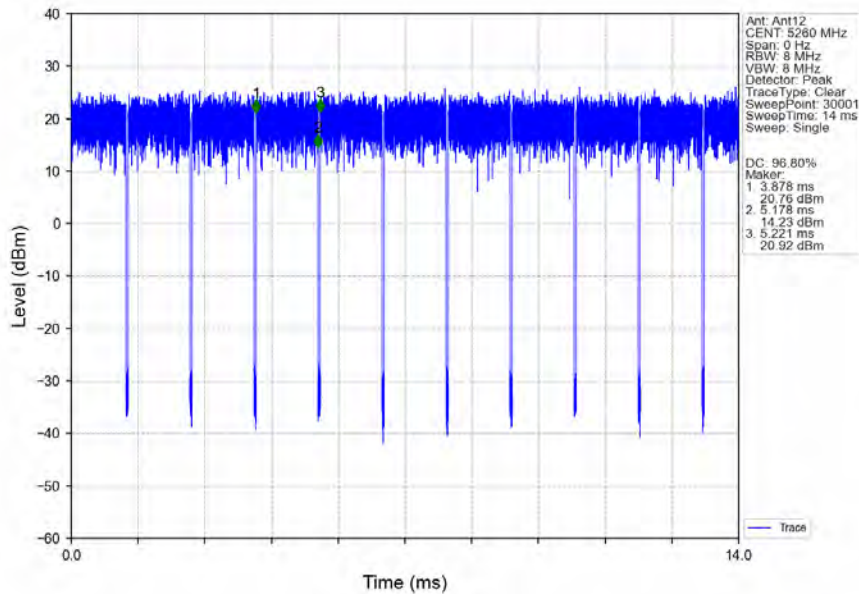
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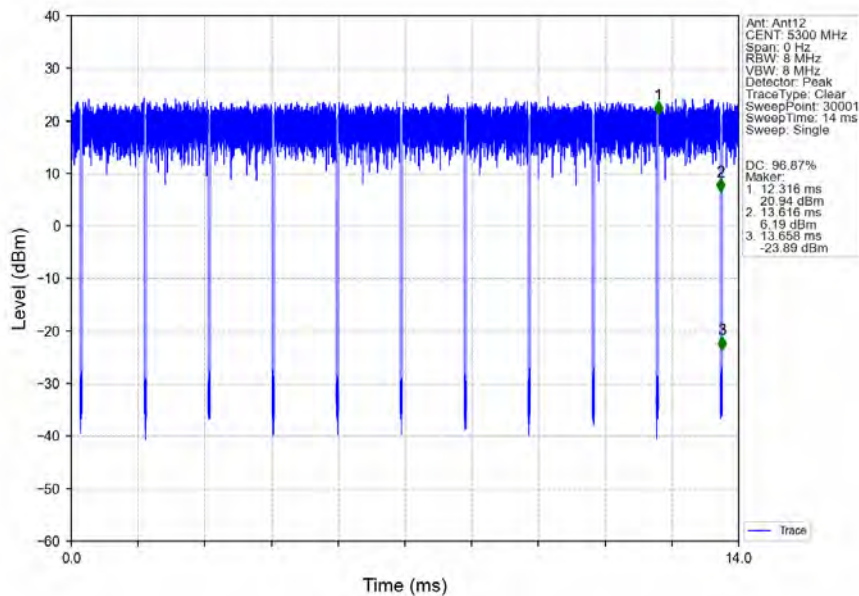
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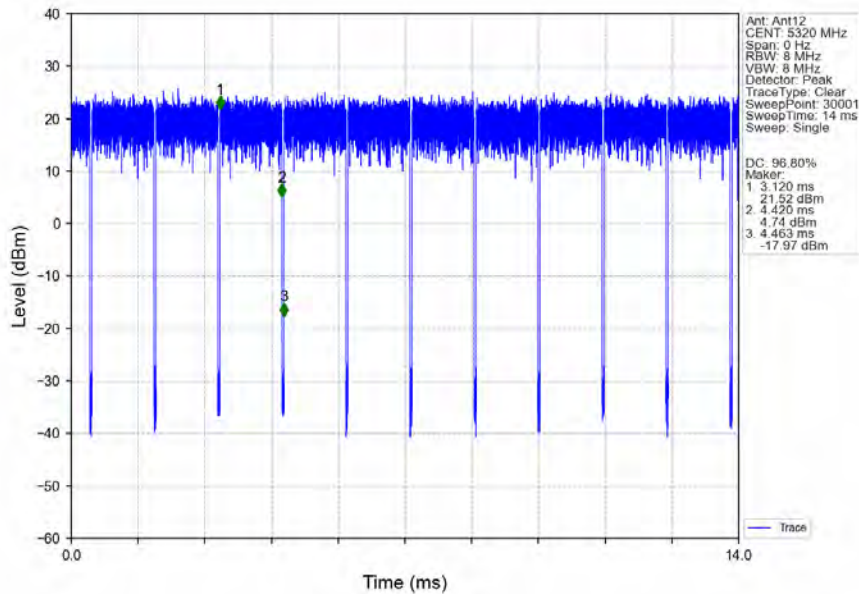
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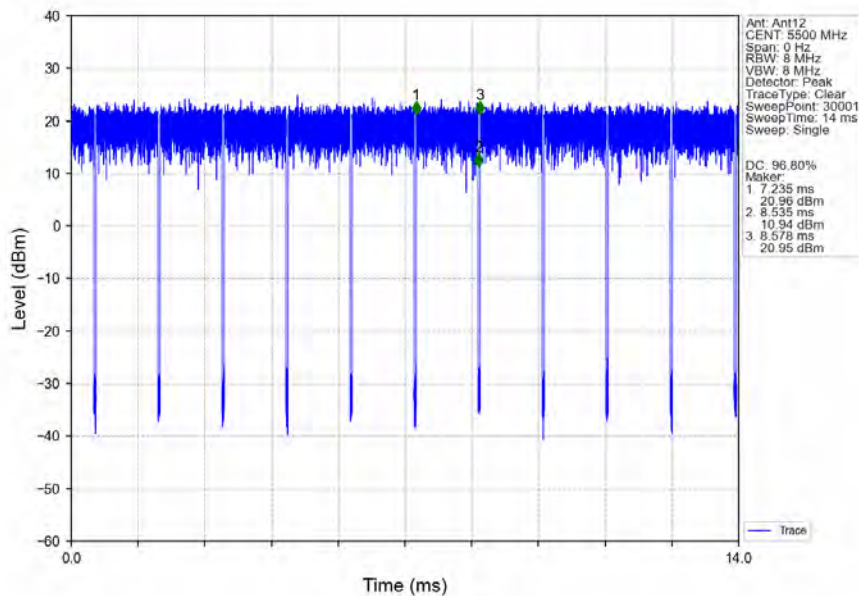
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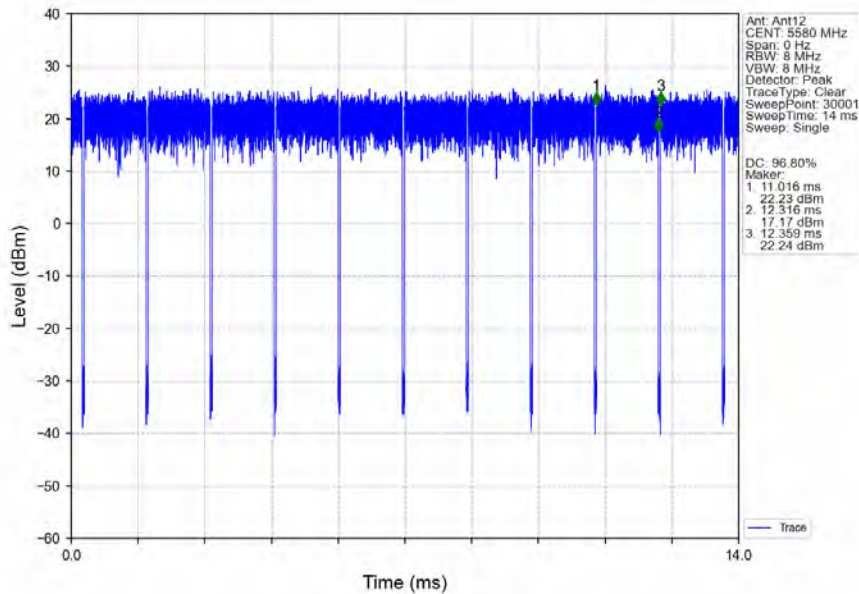
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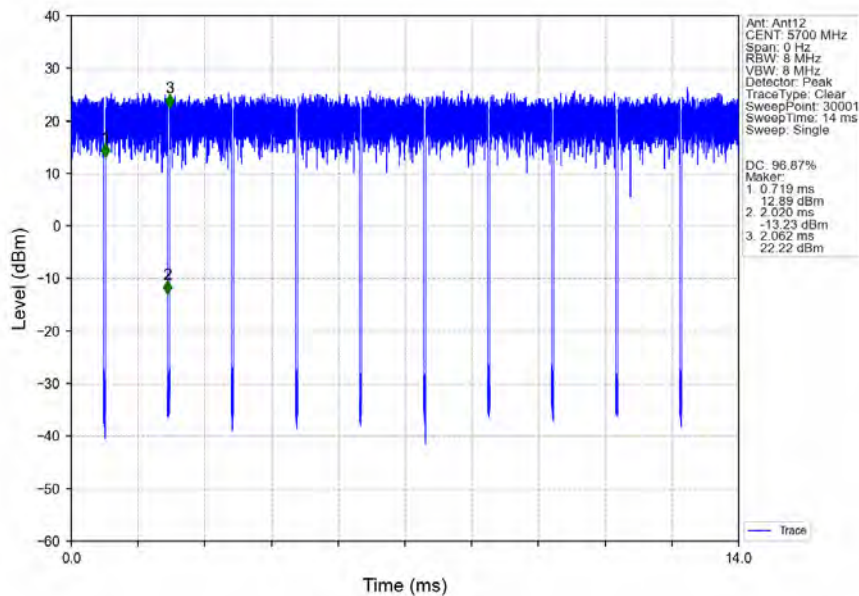
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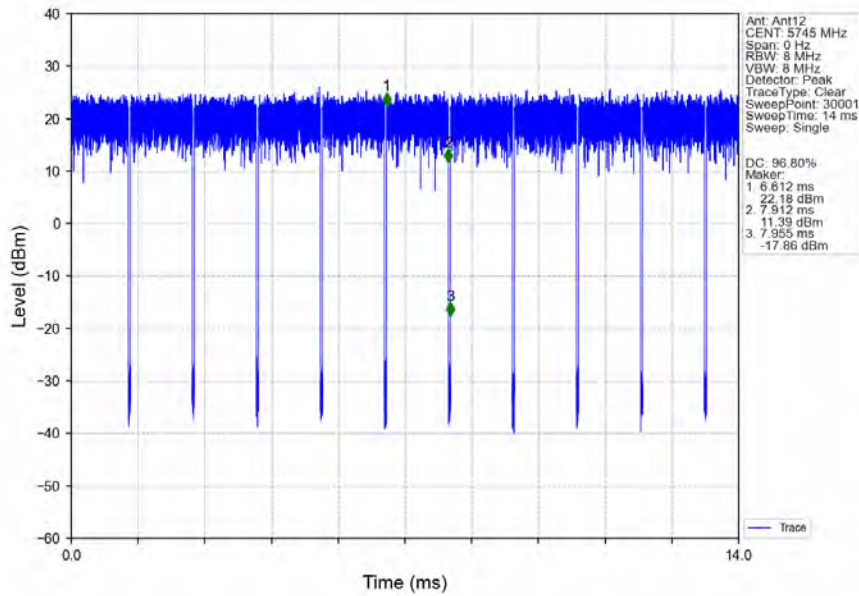
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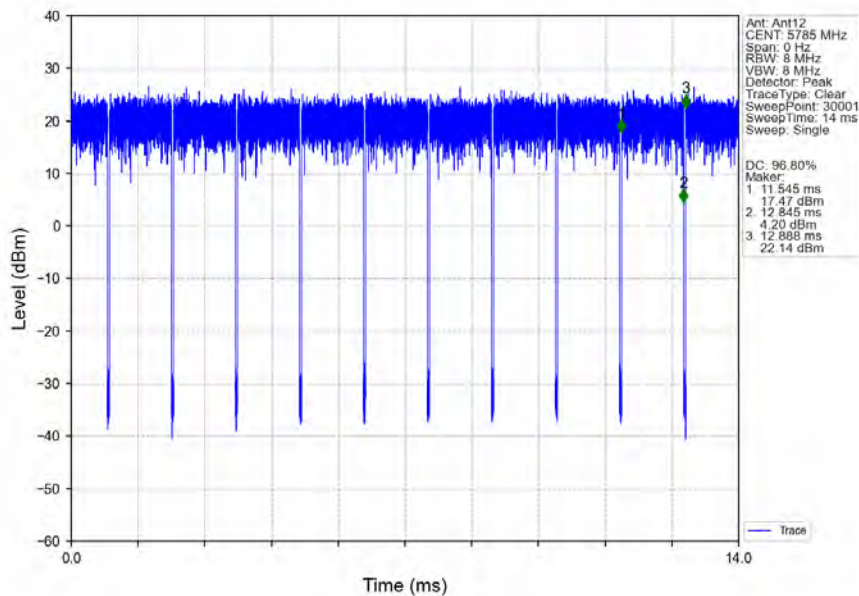
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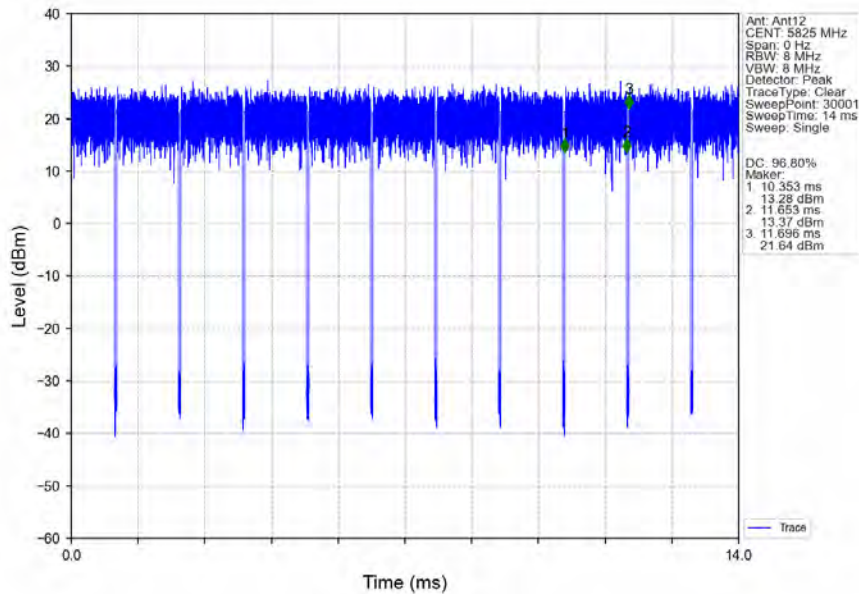
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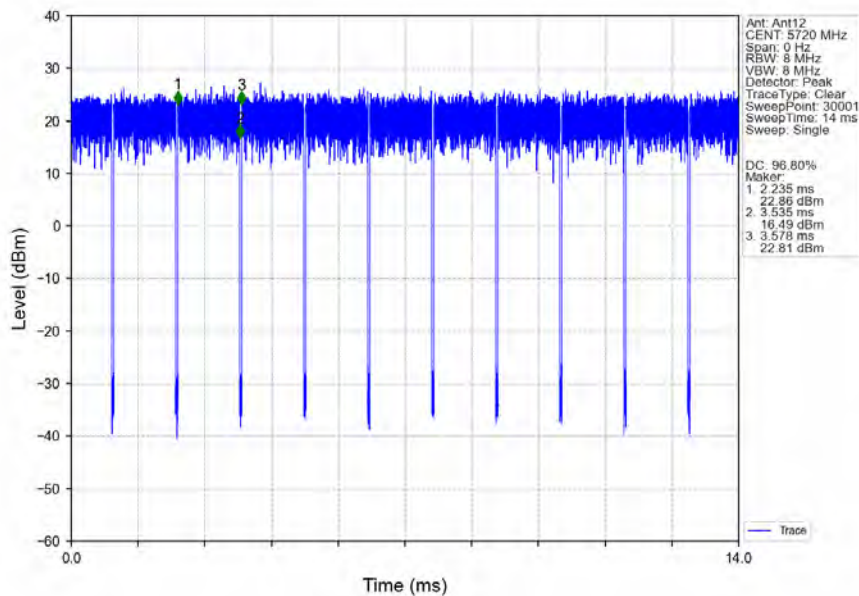
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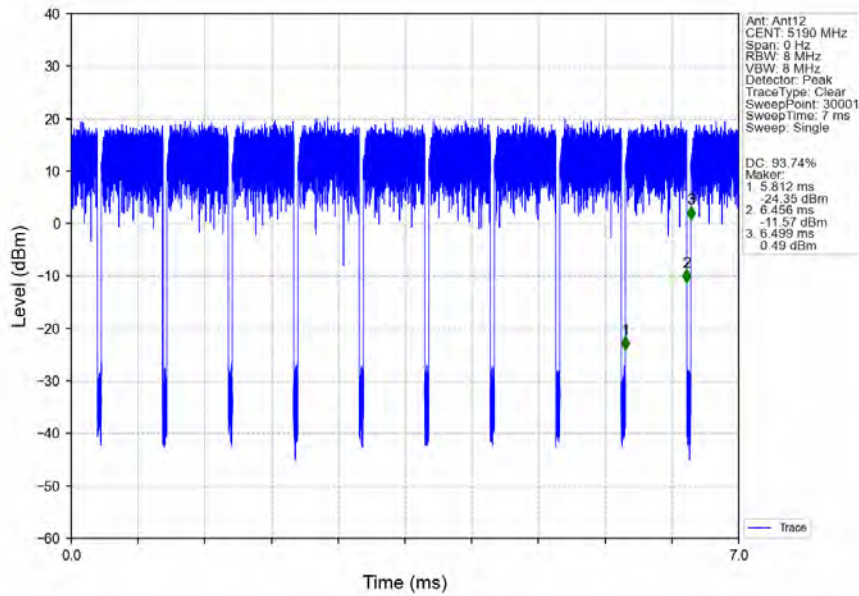
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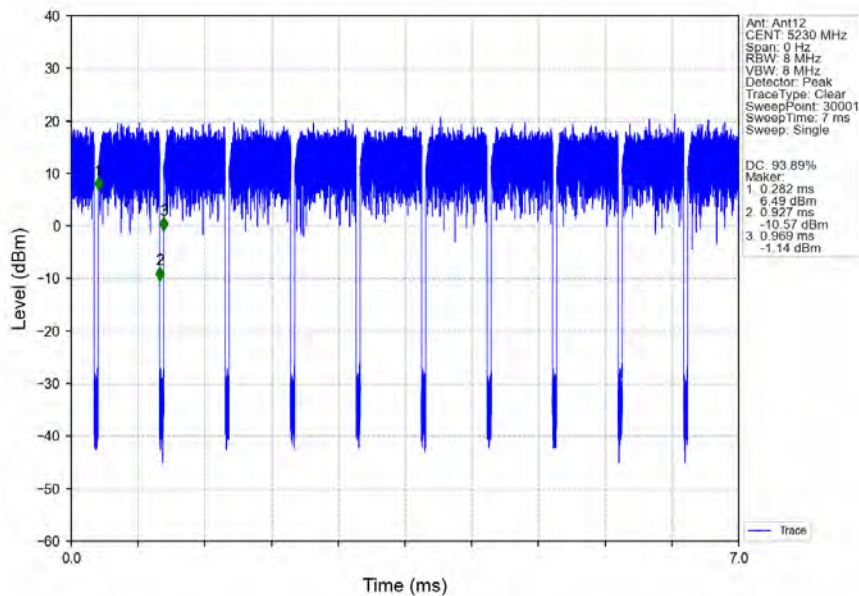
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Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

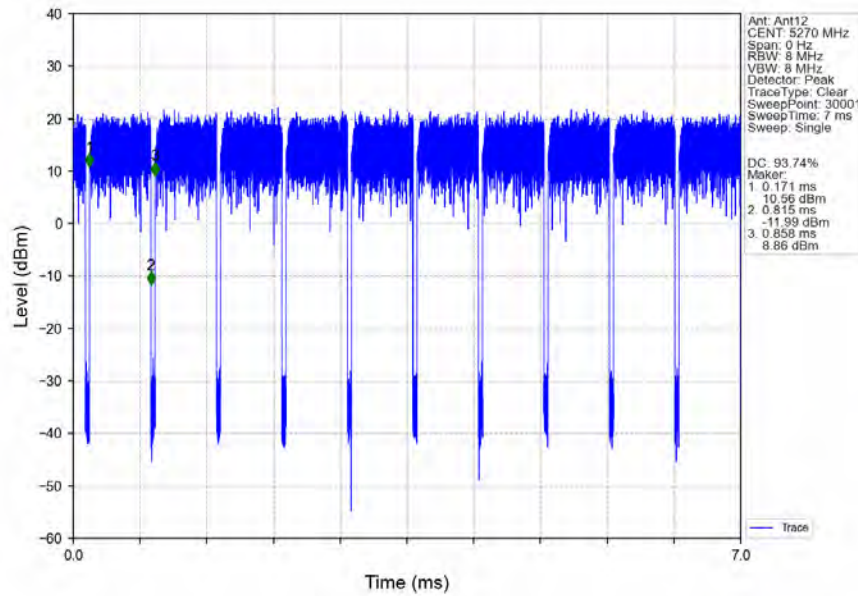
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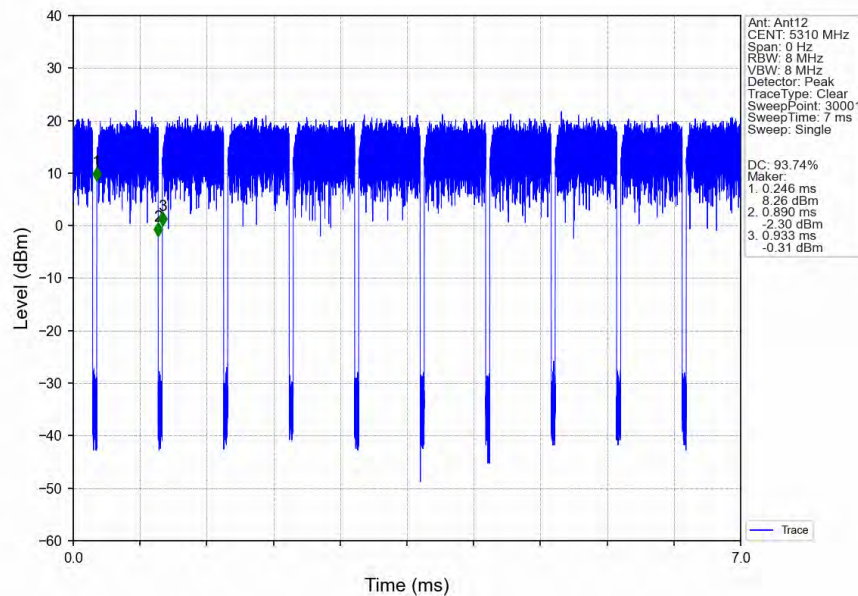
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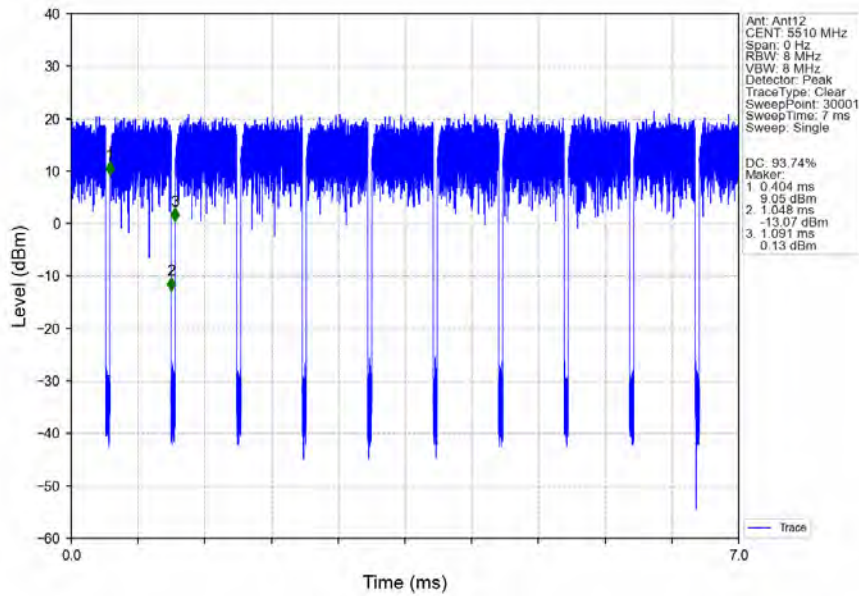
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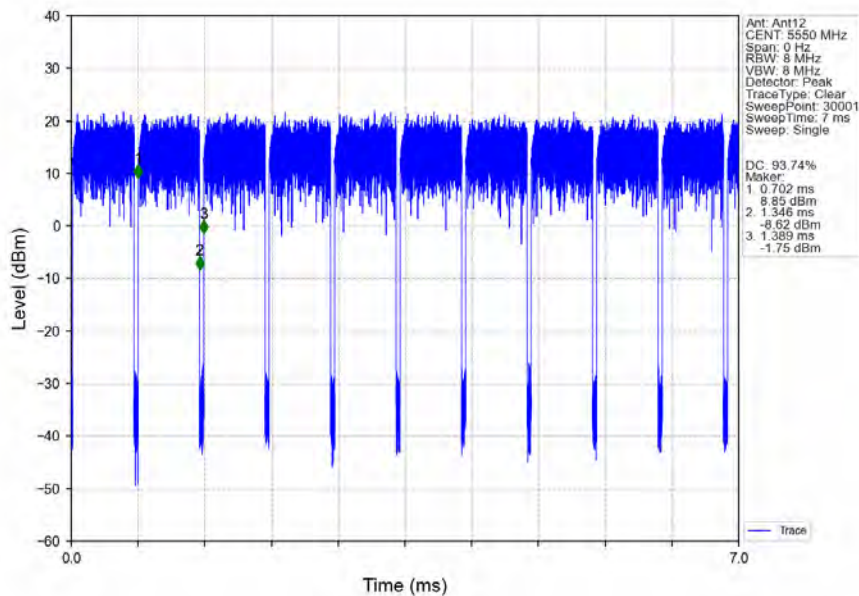
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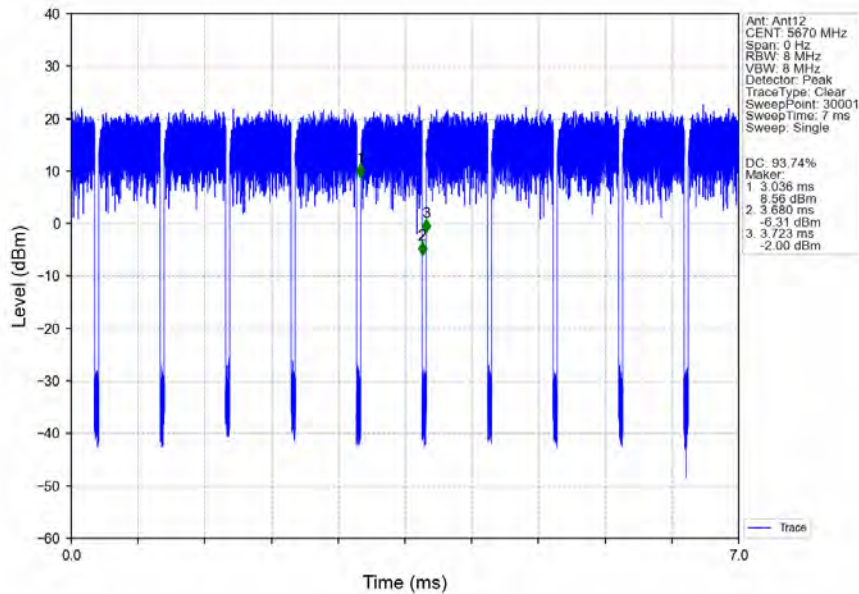
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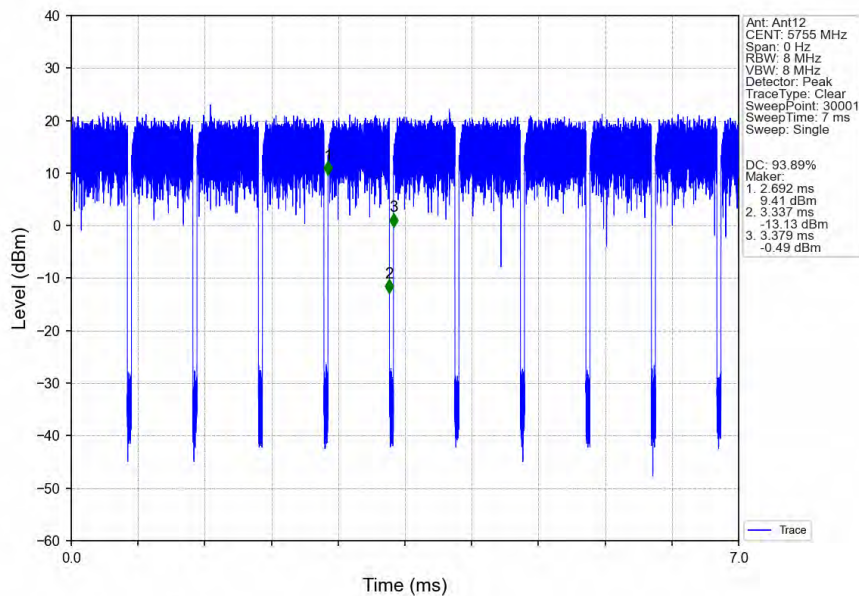
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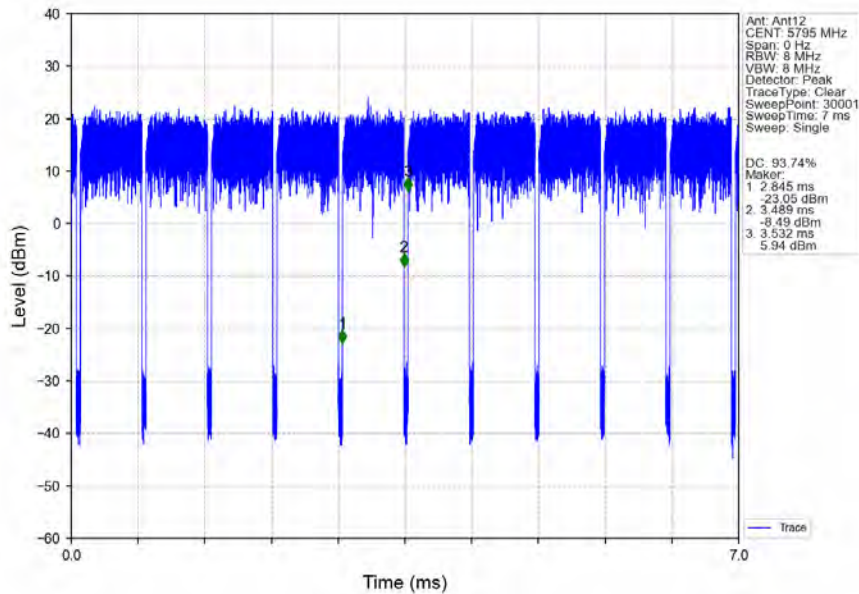
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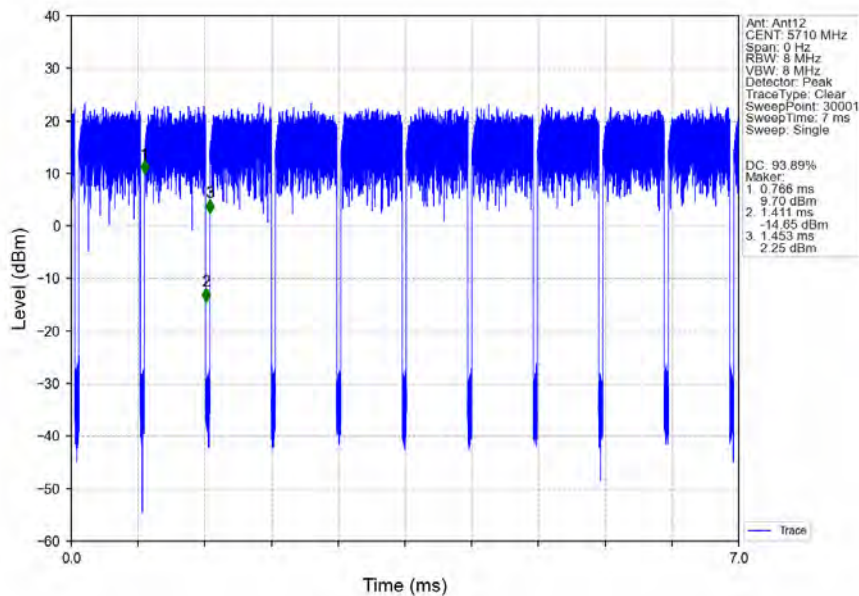
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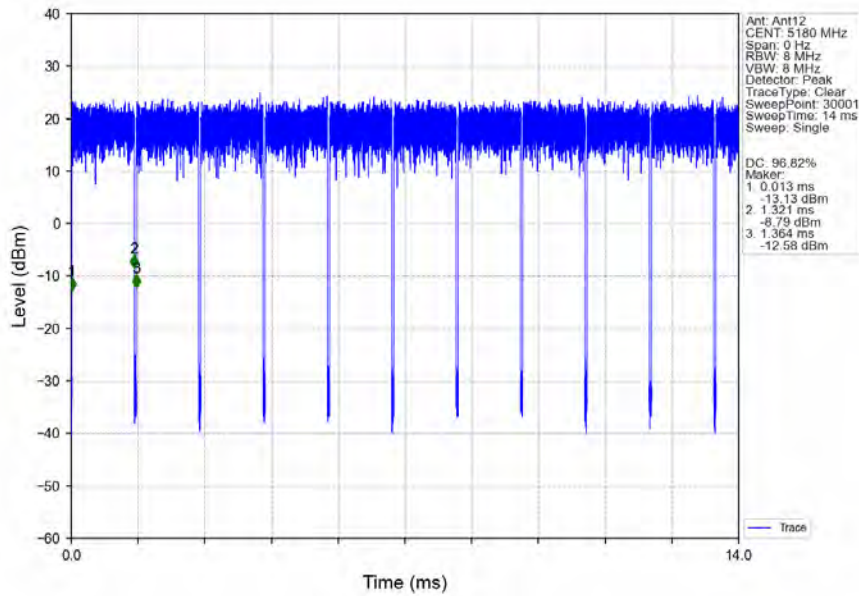
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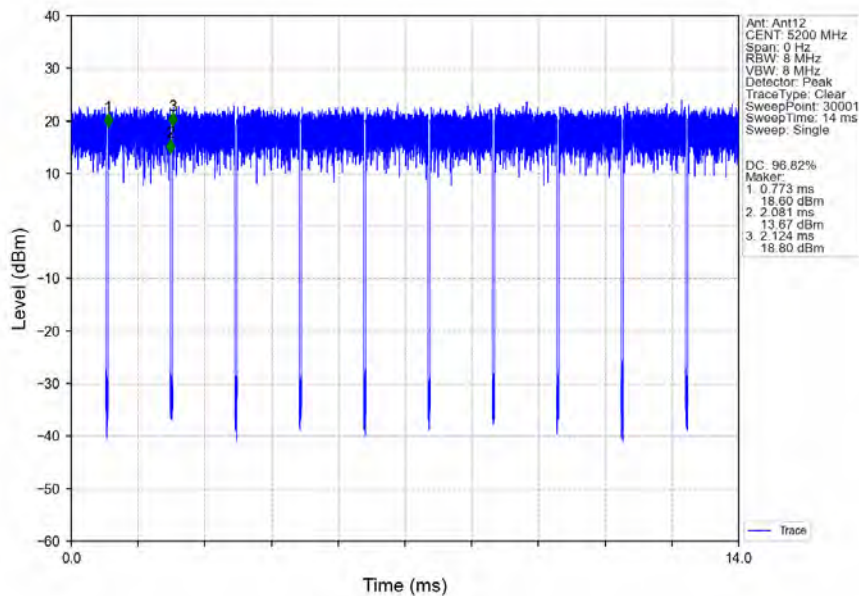
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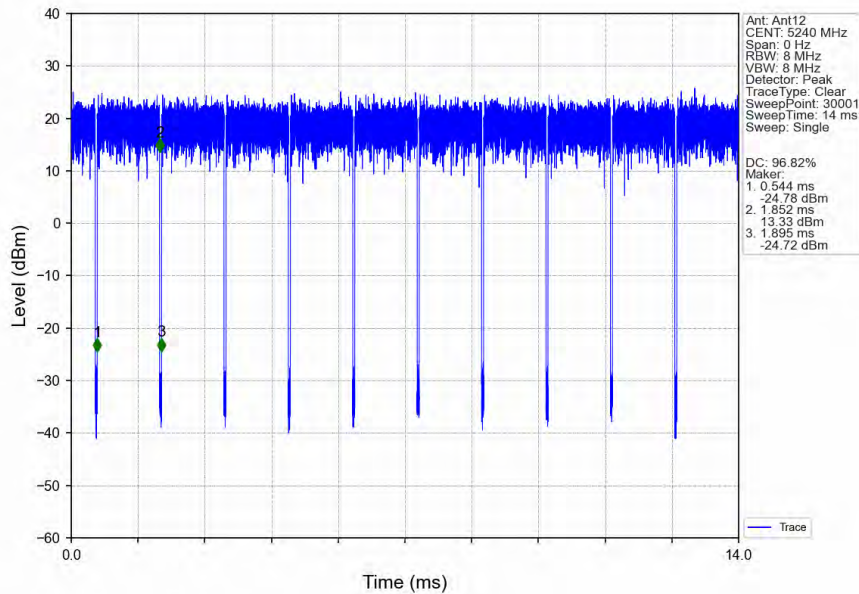
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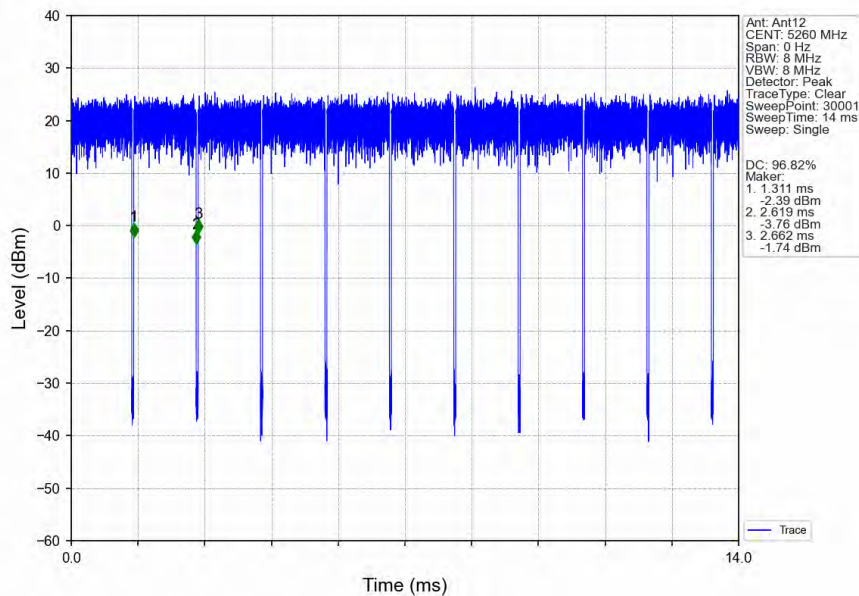
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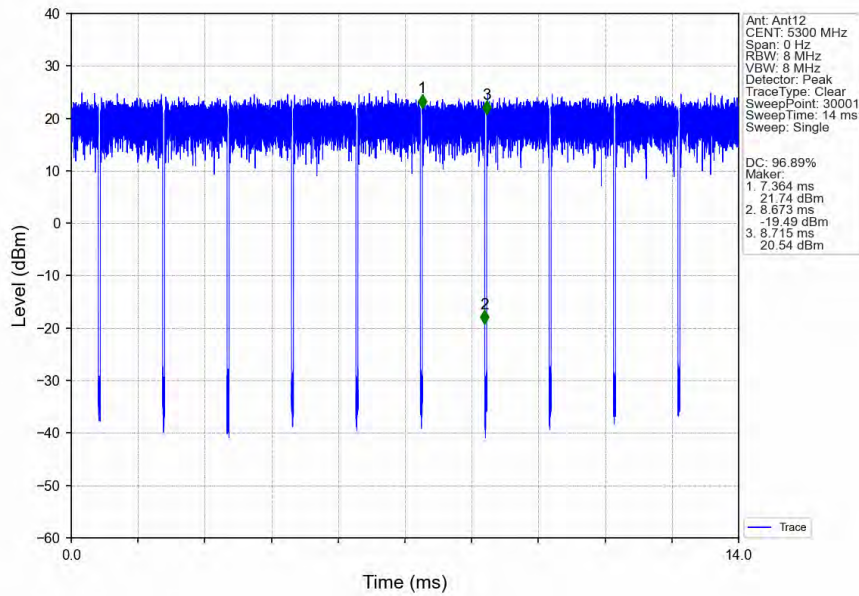
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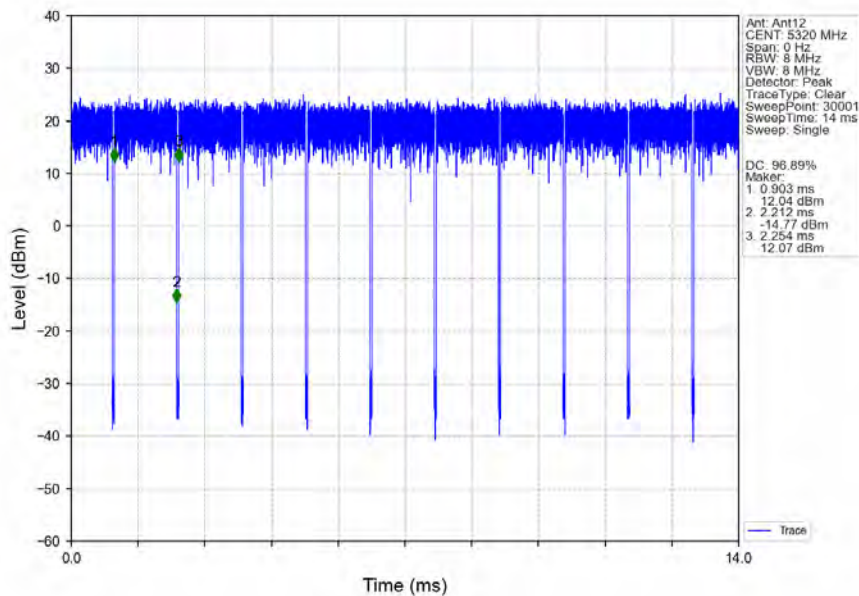
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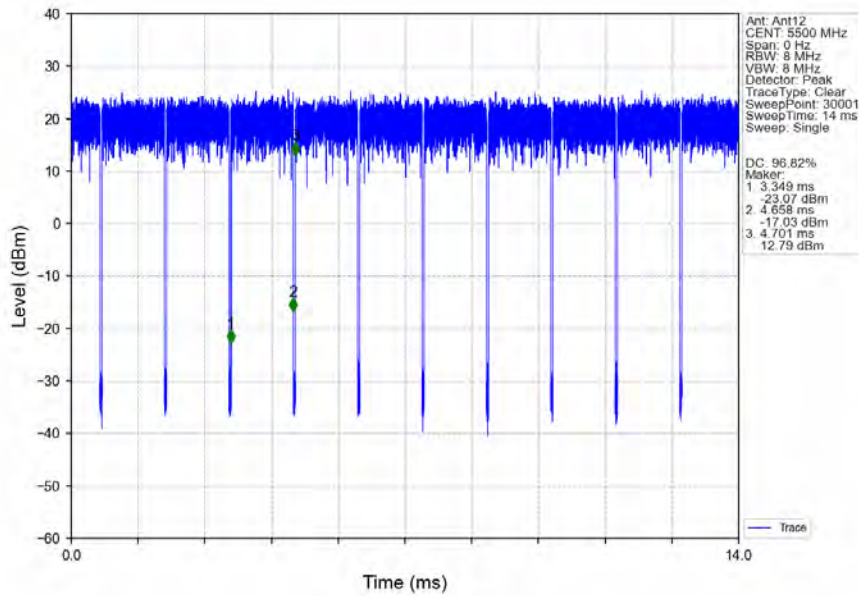
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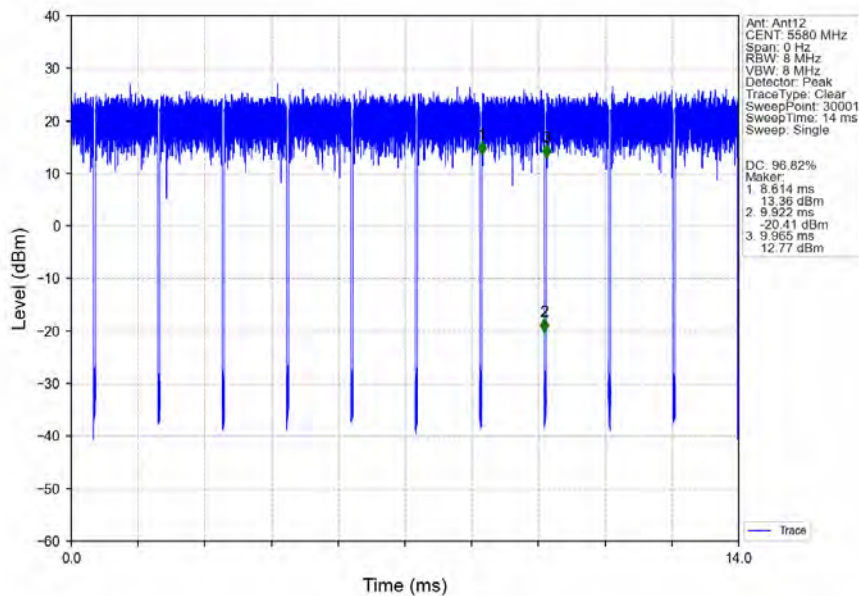
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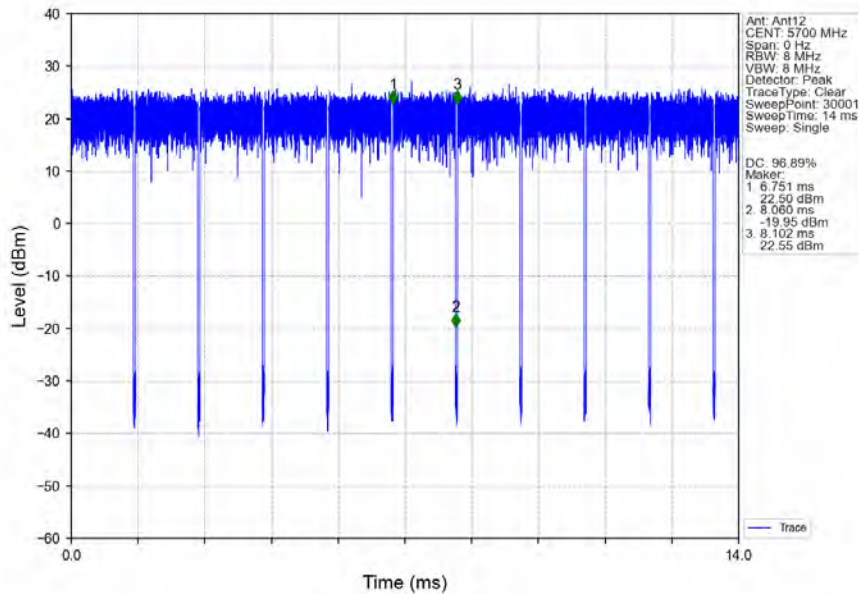
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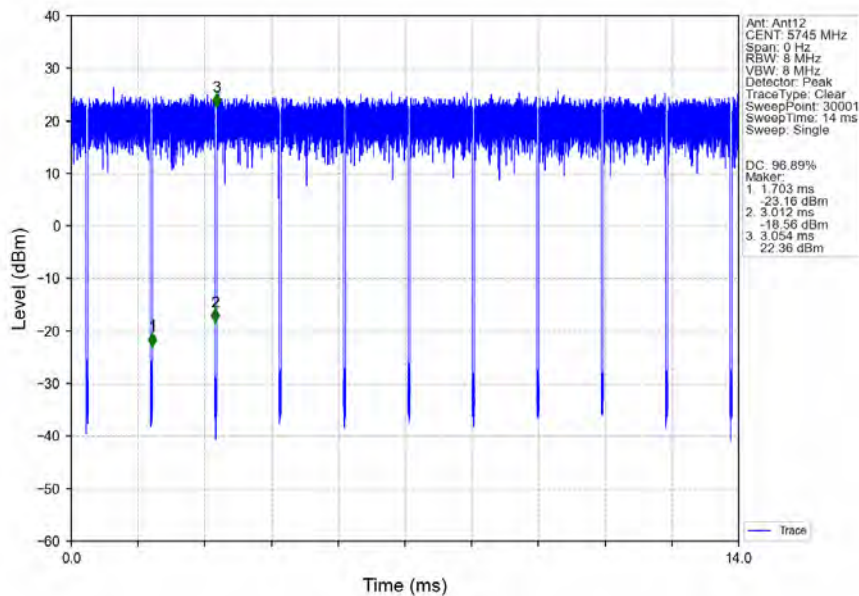
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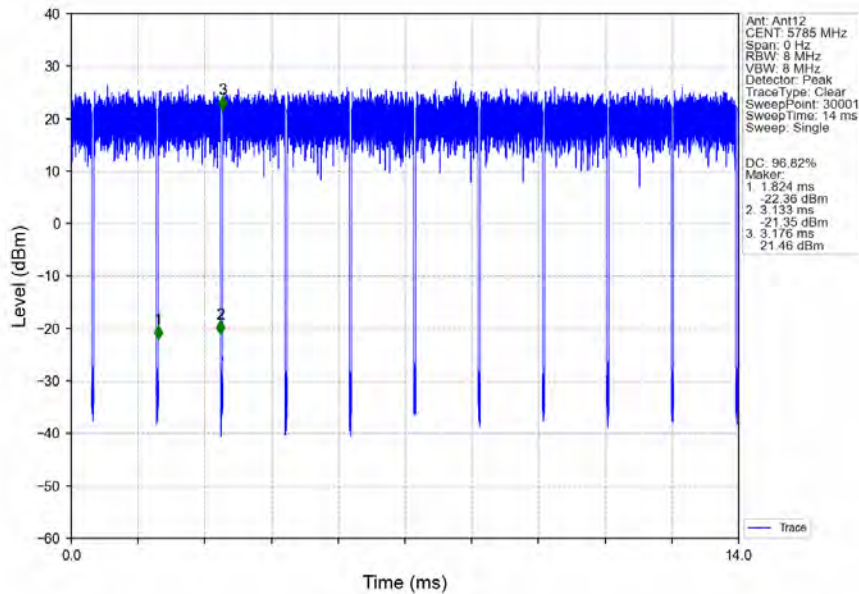
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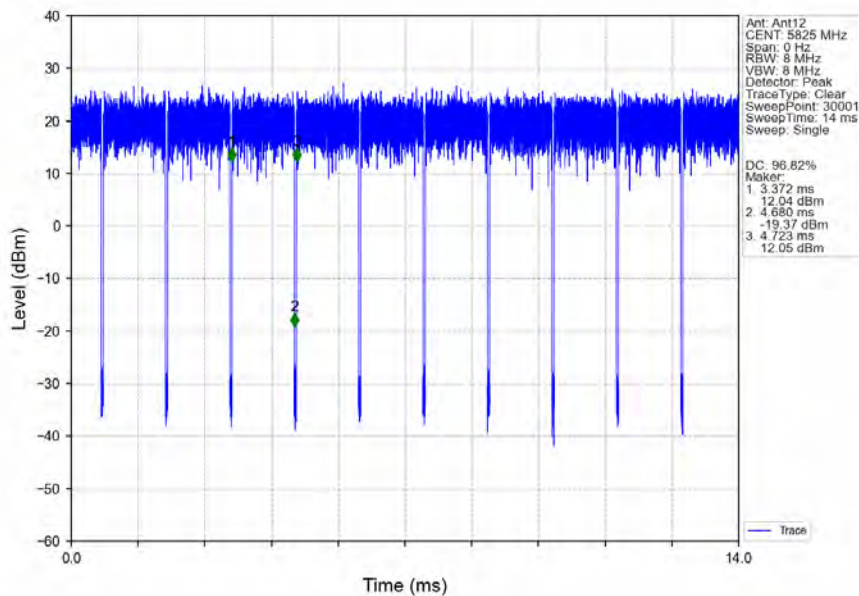
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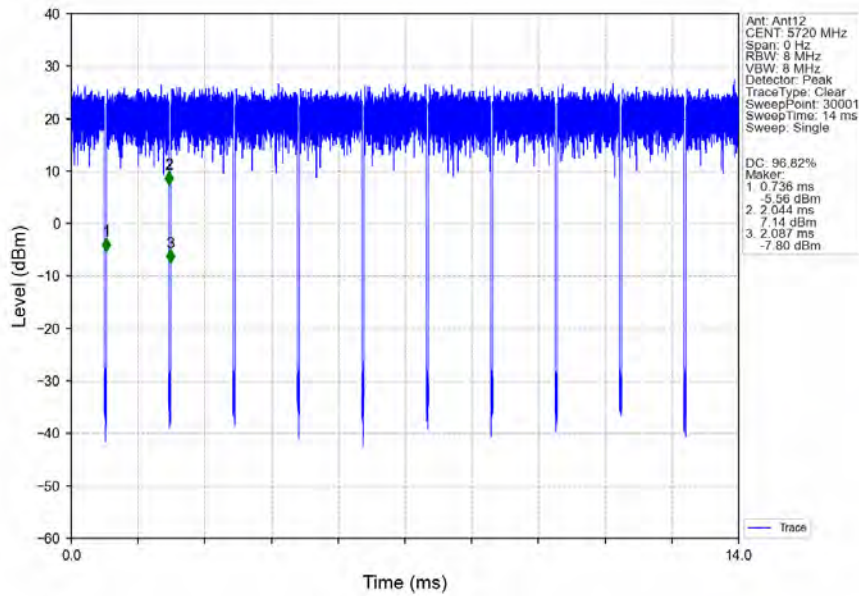
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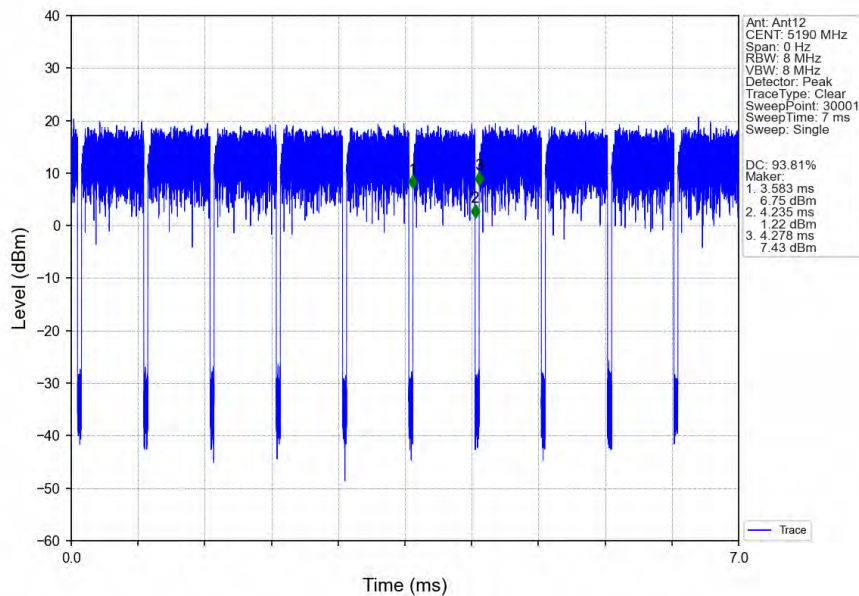
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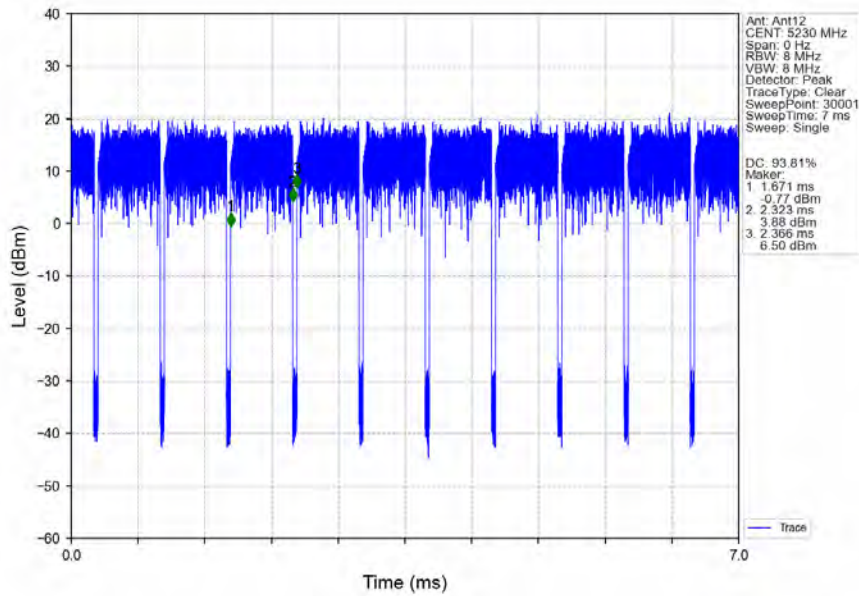
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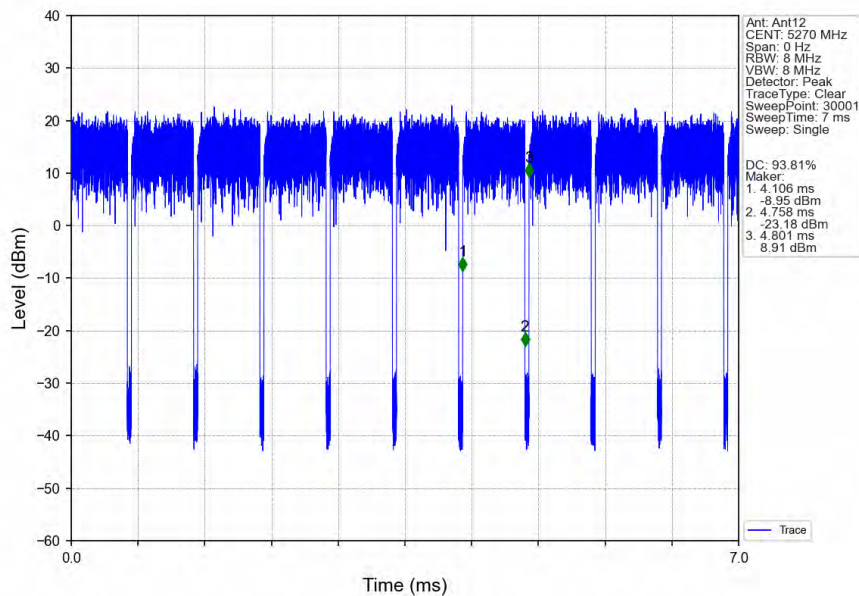
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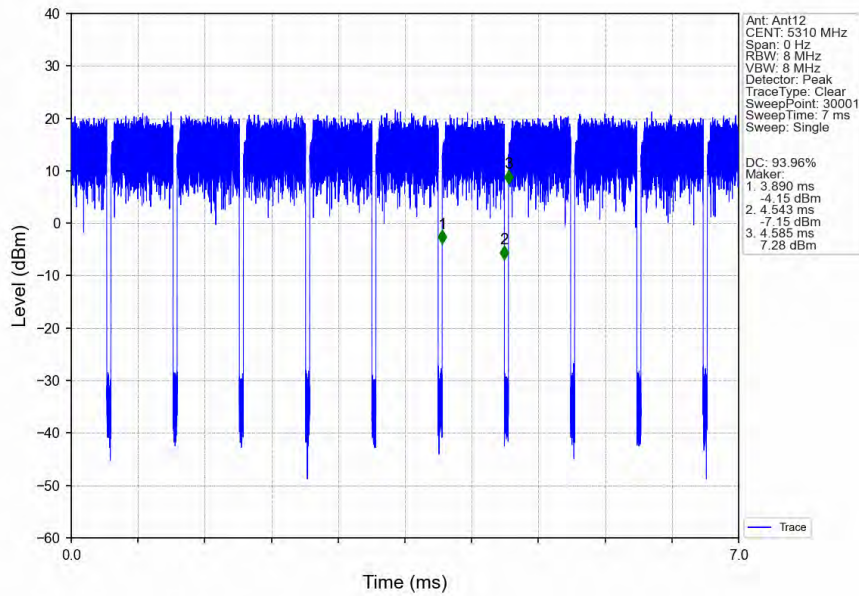
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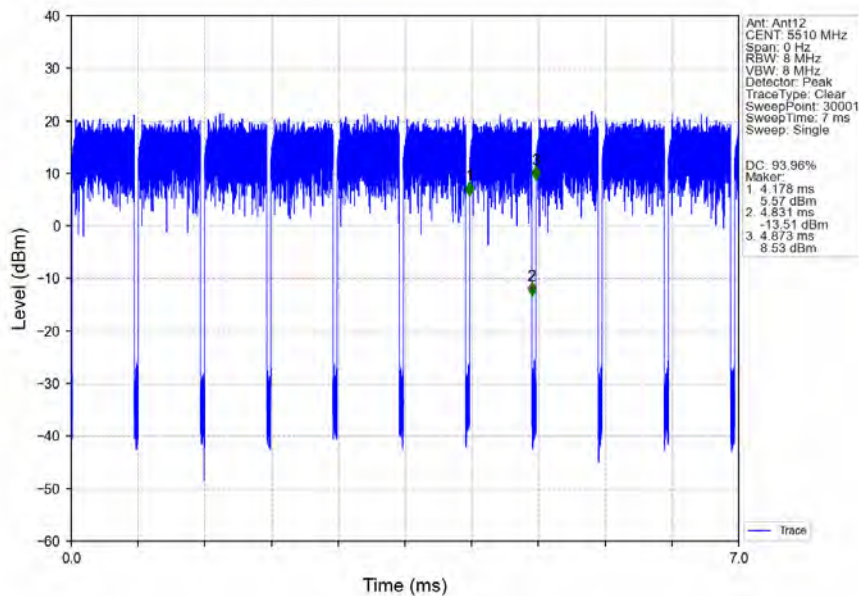
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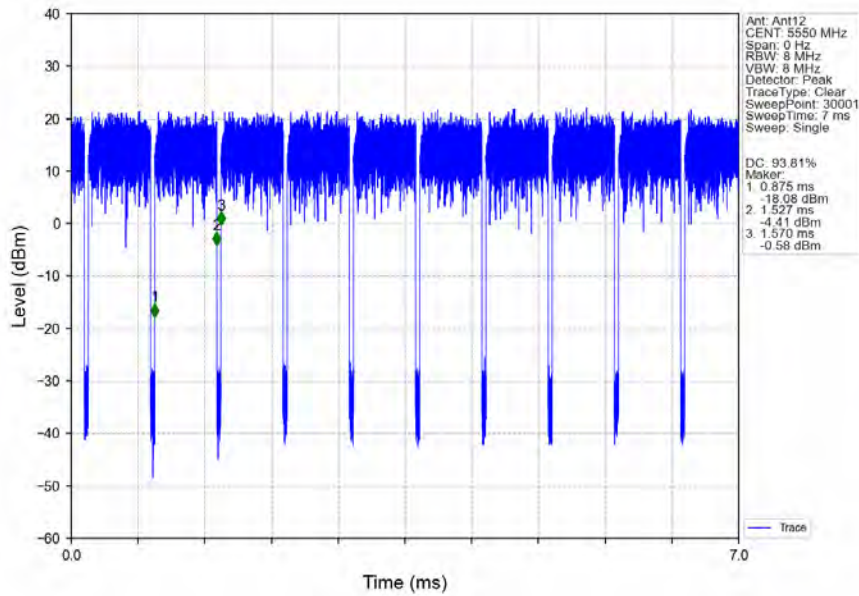
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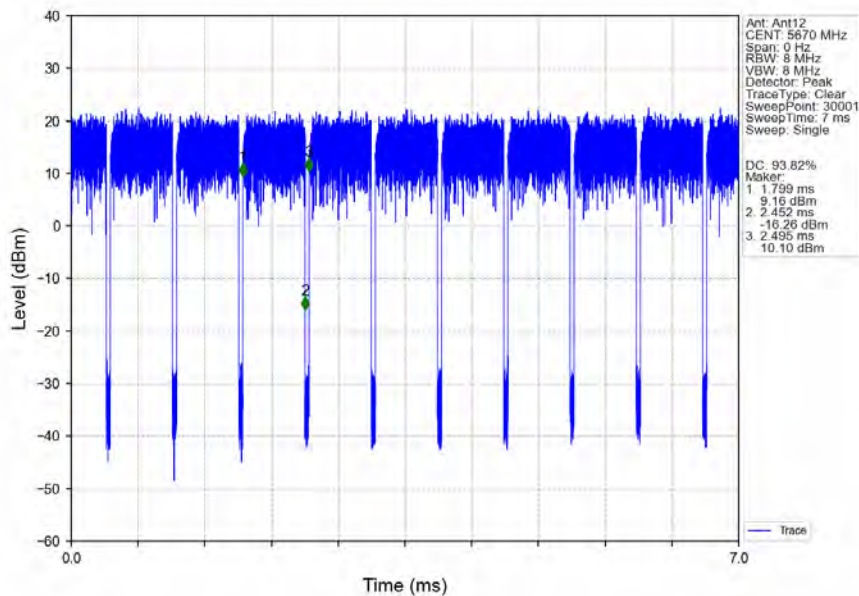
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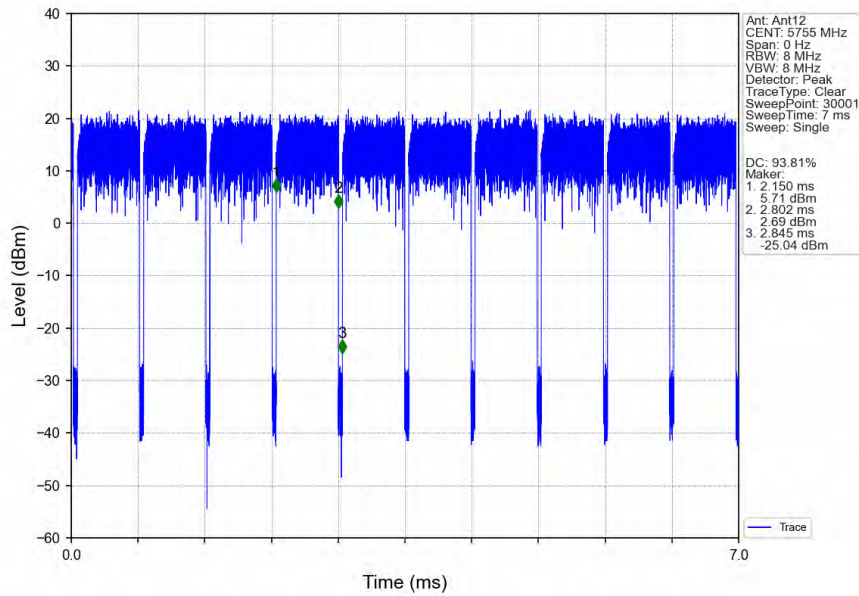
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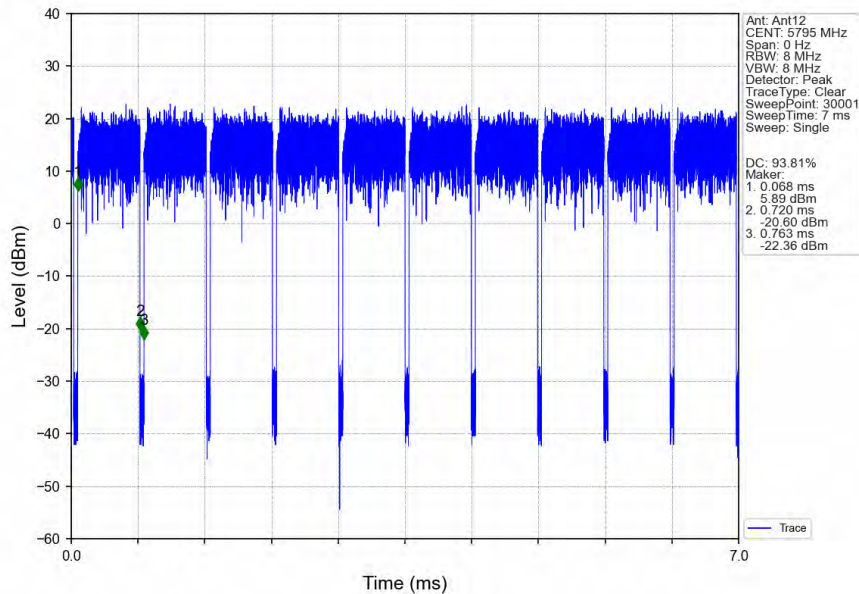
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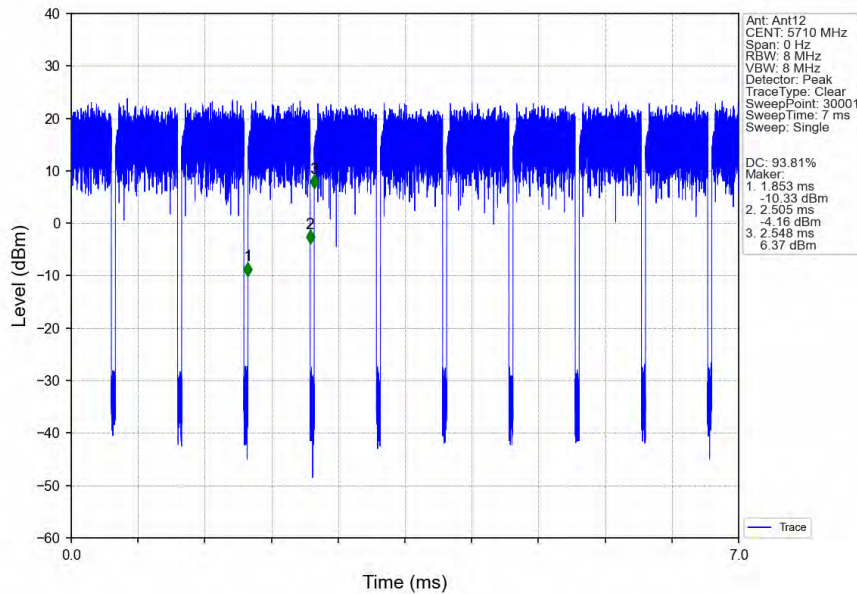
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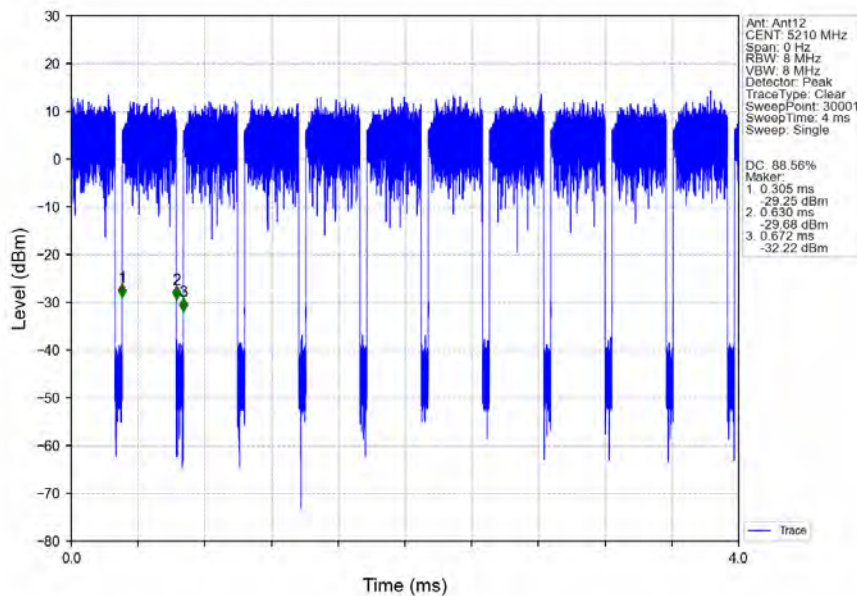
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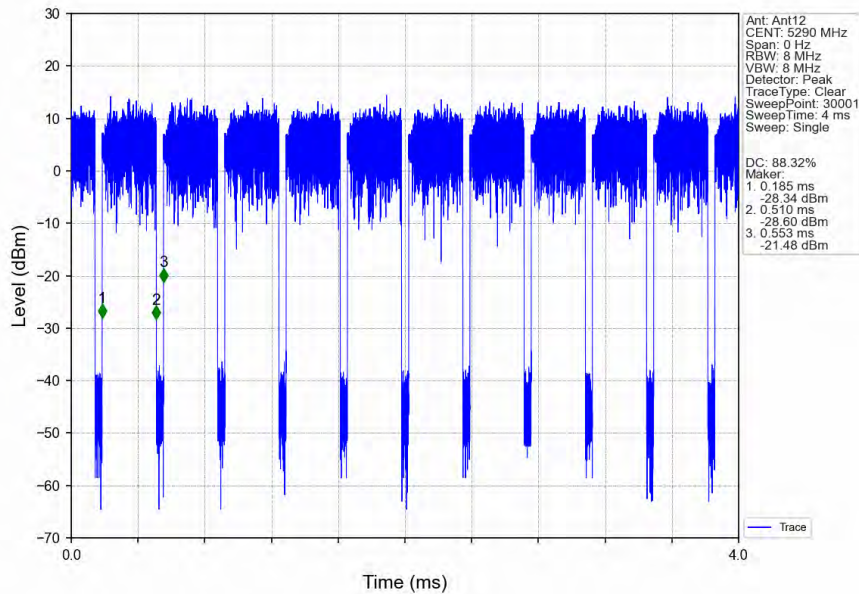
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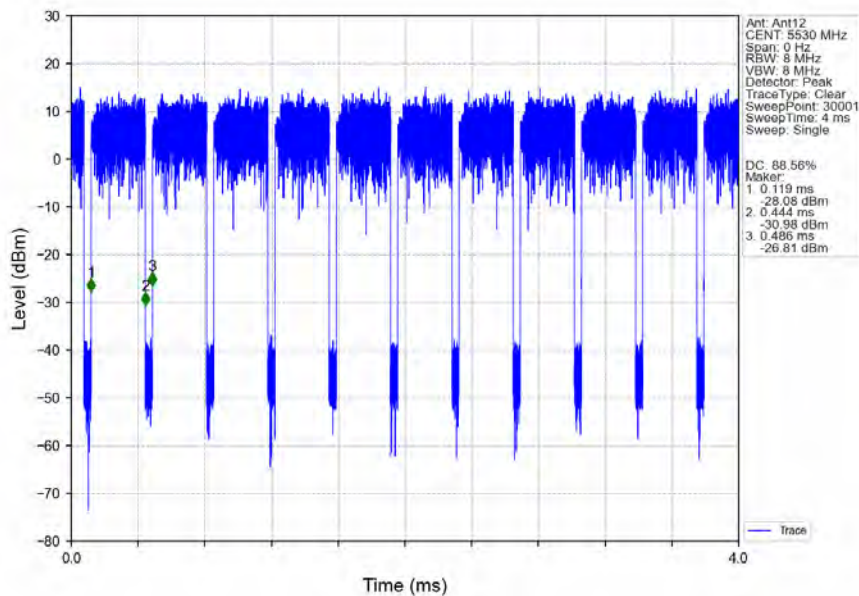
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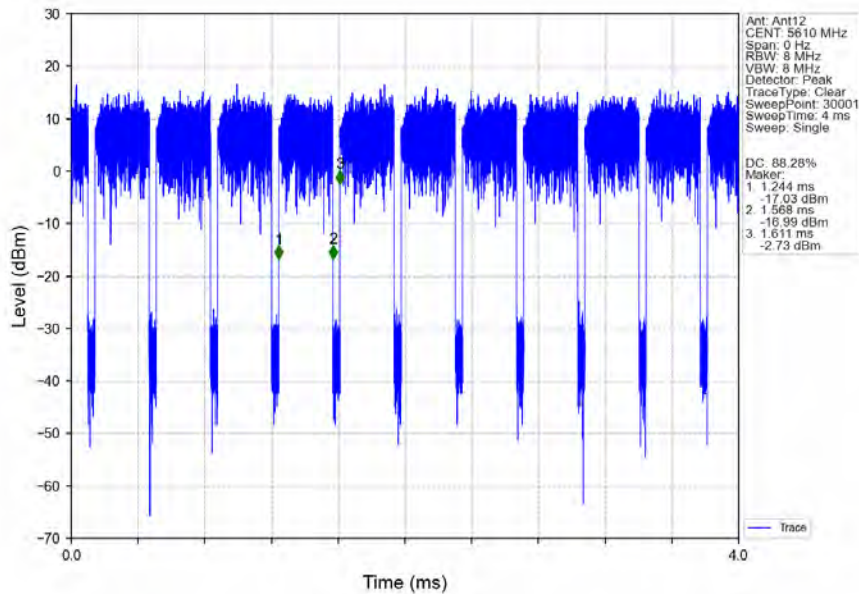
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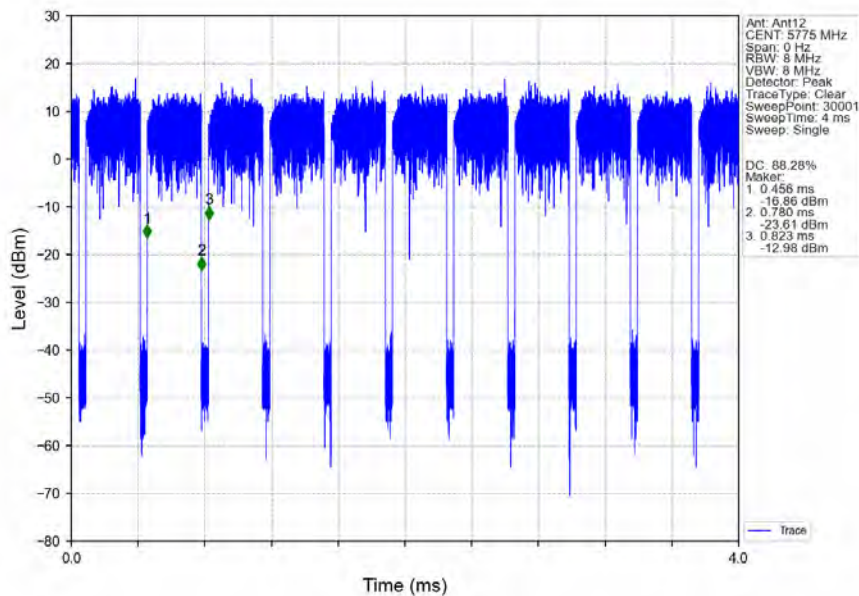
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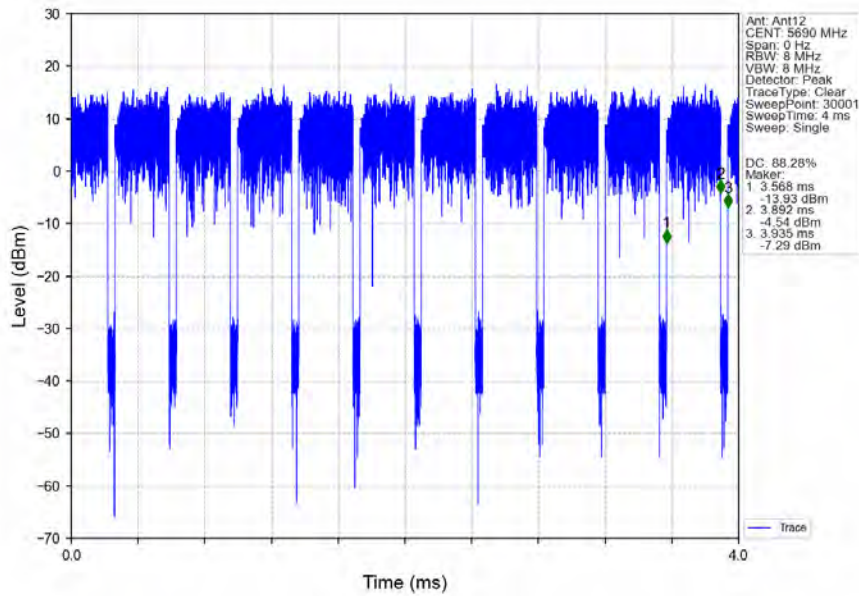
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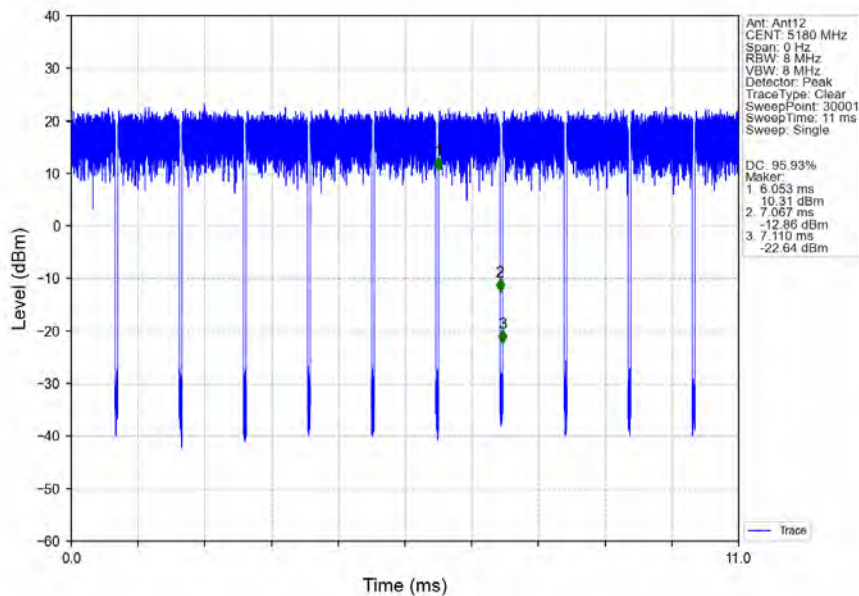
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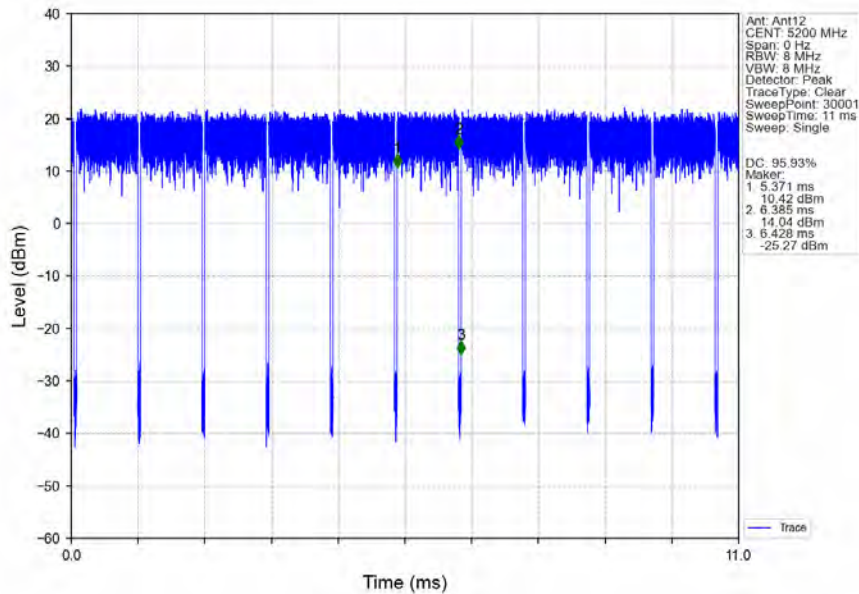
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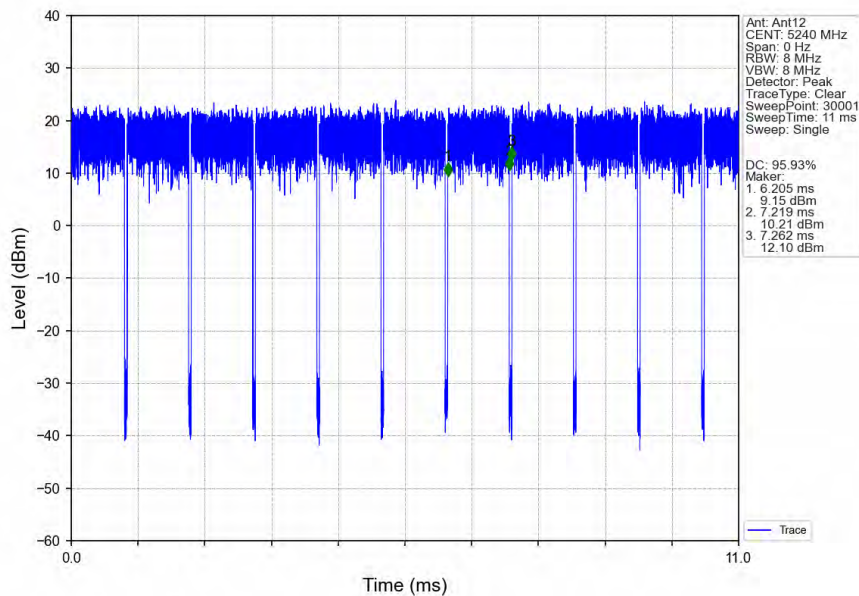
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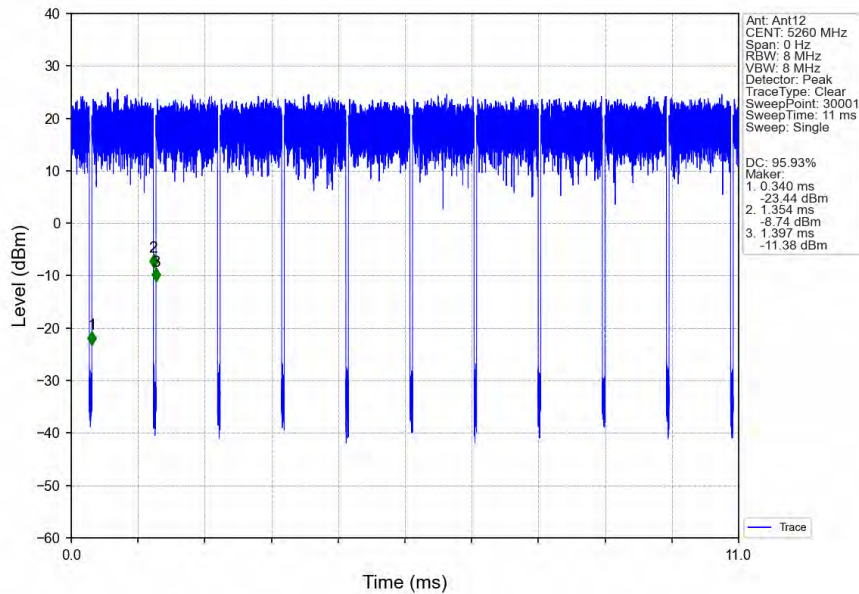
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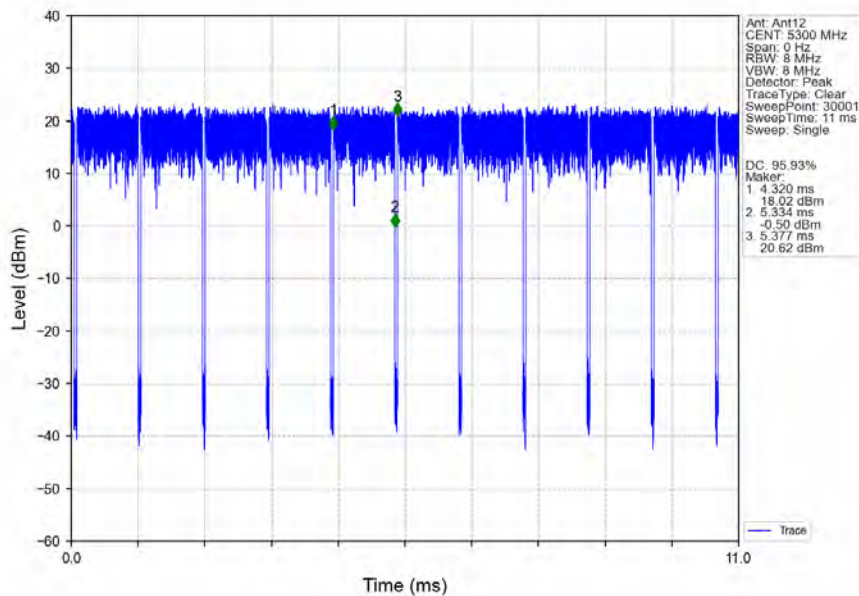
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802.11ax(HEW20)_LCH_5260MHz_RU242_Left_Ant12_NTNV



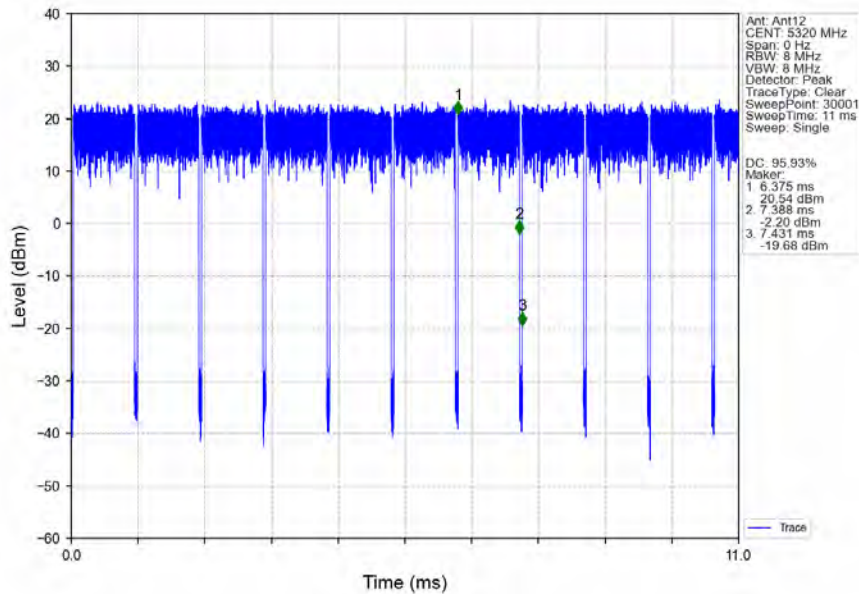
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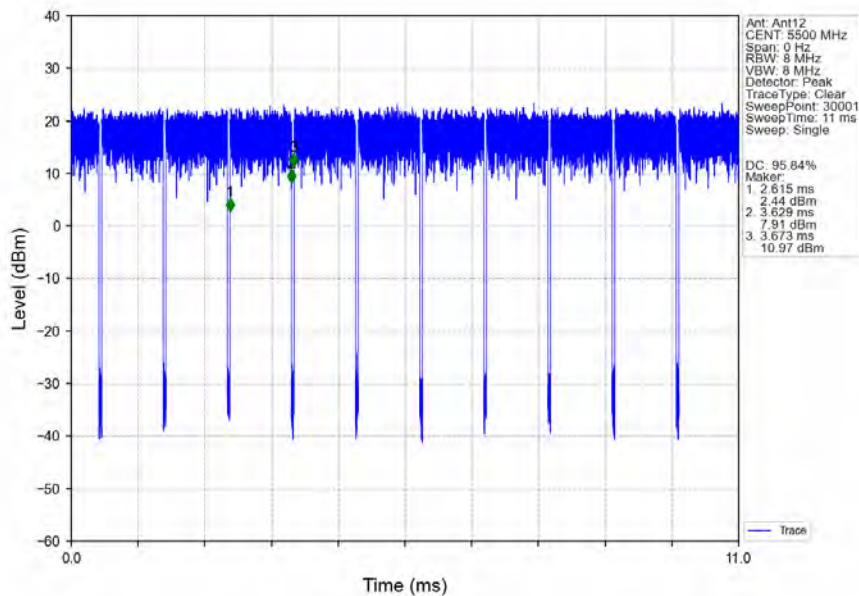
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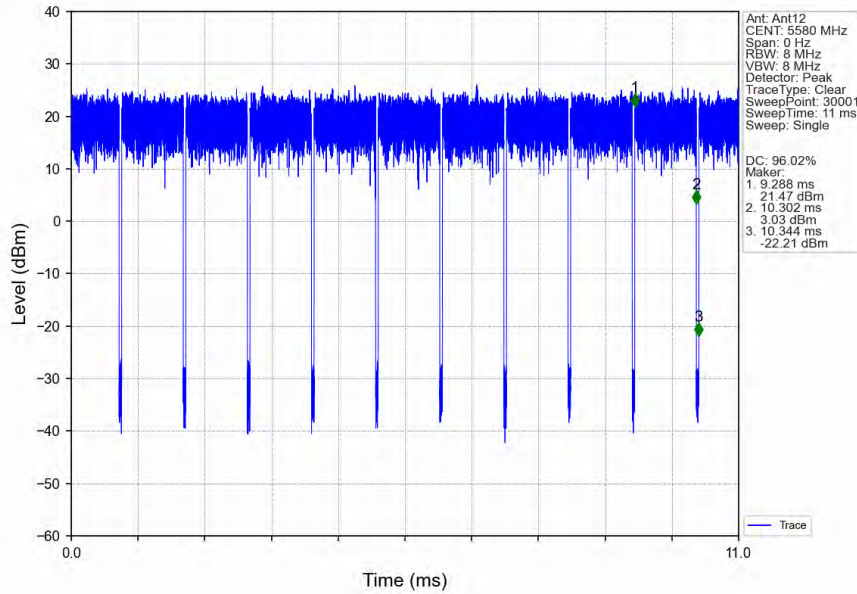
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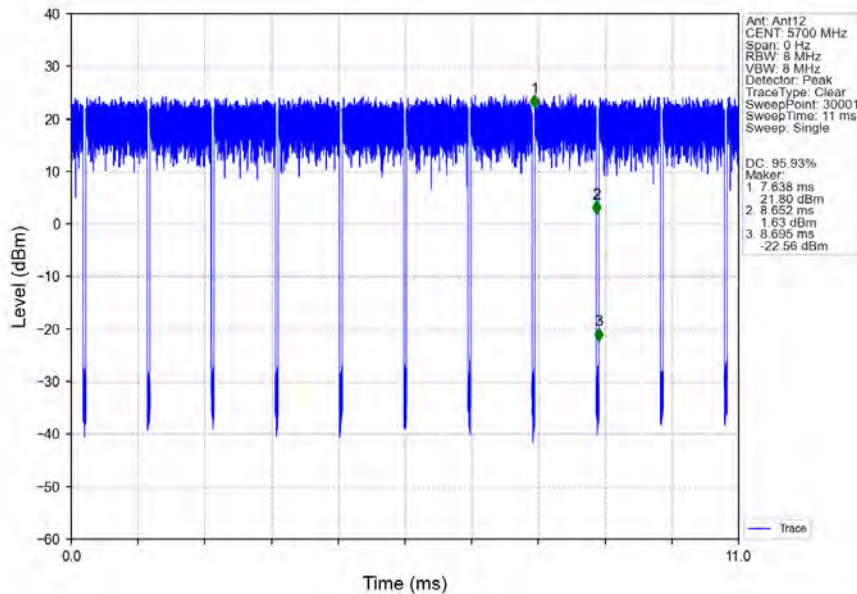
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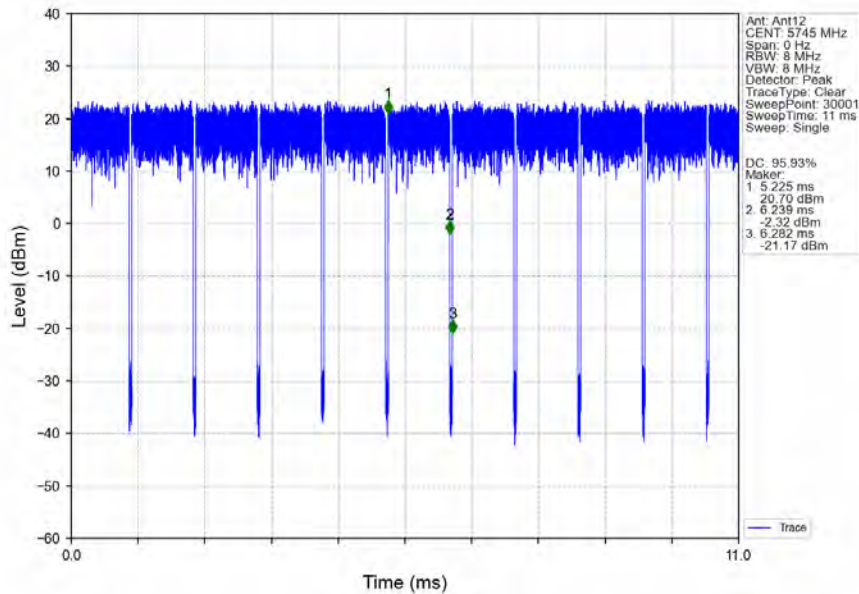
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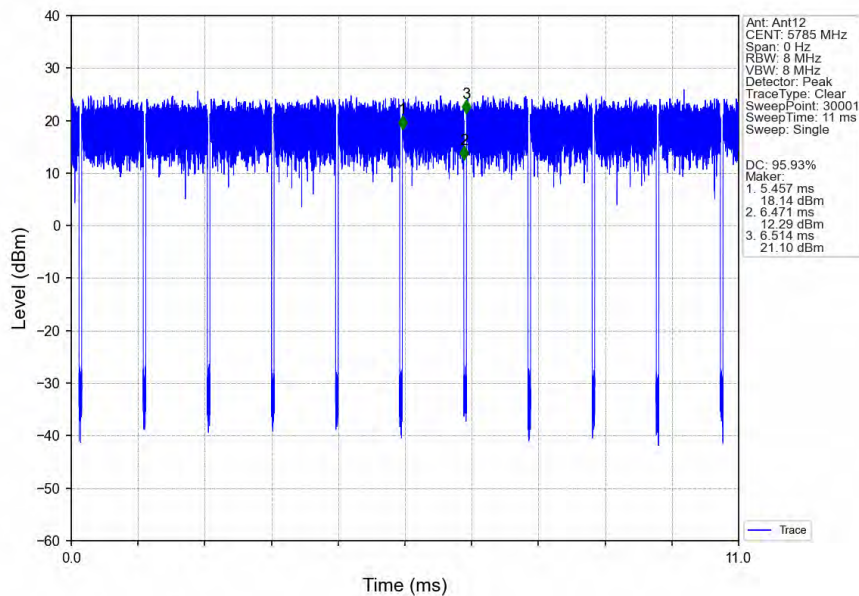
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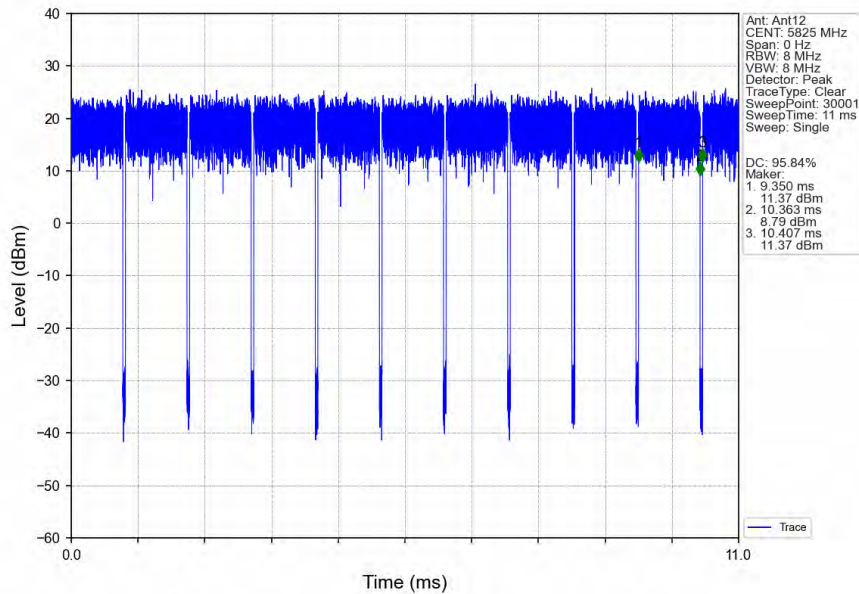
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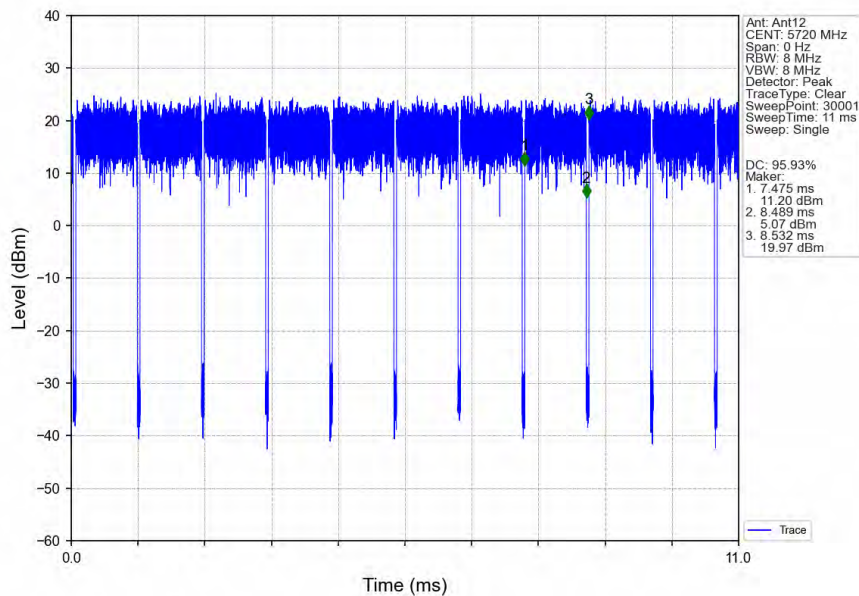
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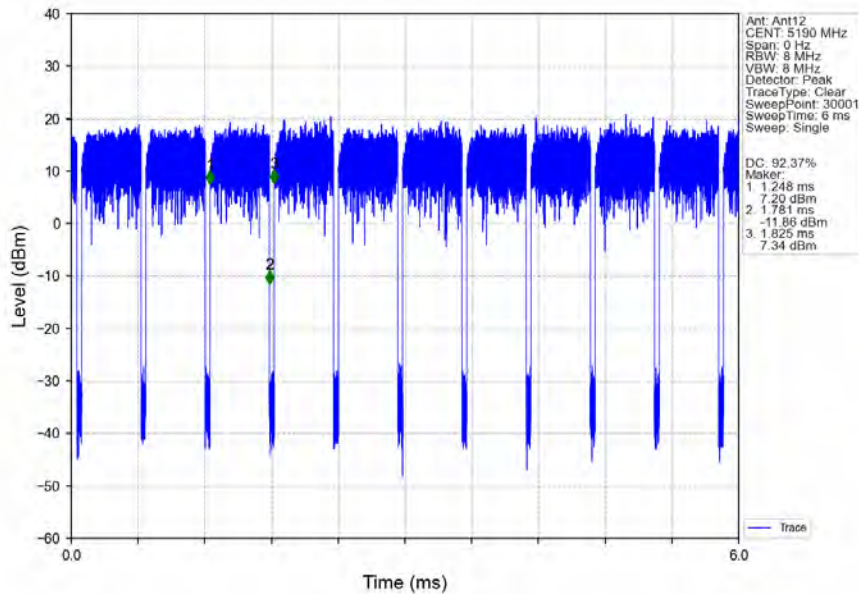
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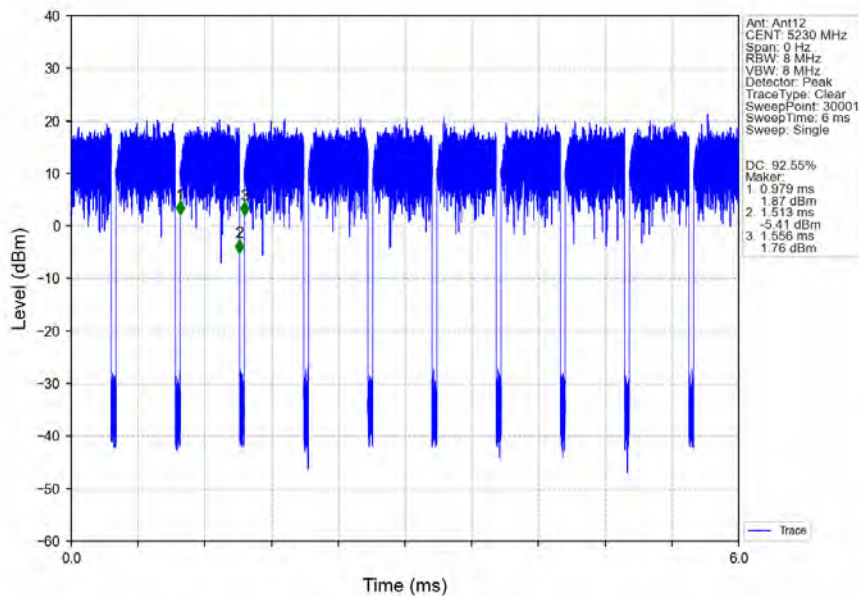
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802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant12_NTNV



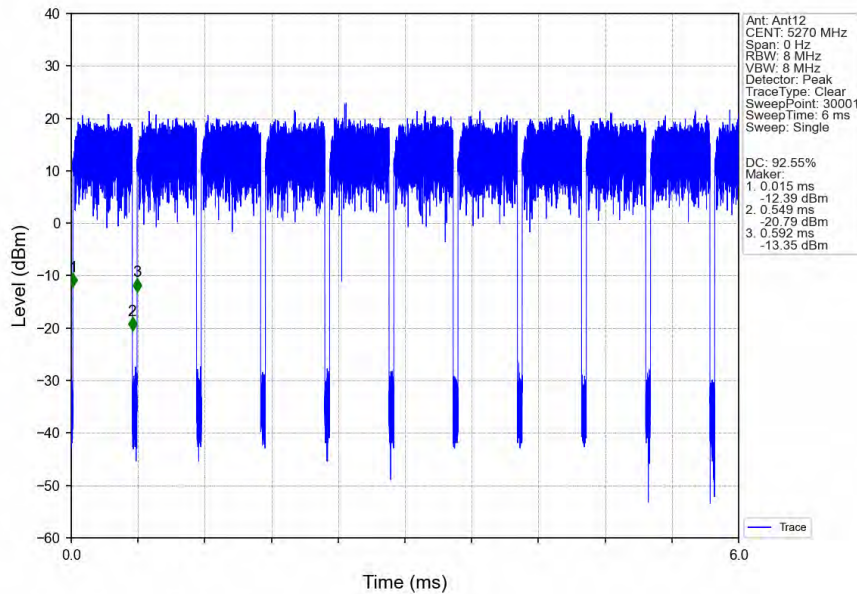
802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant12_NTNV



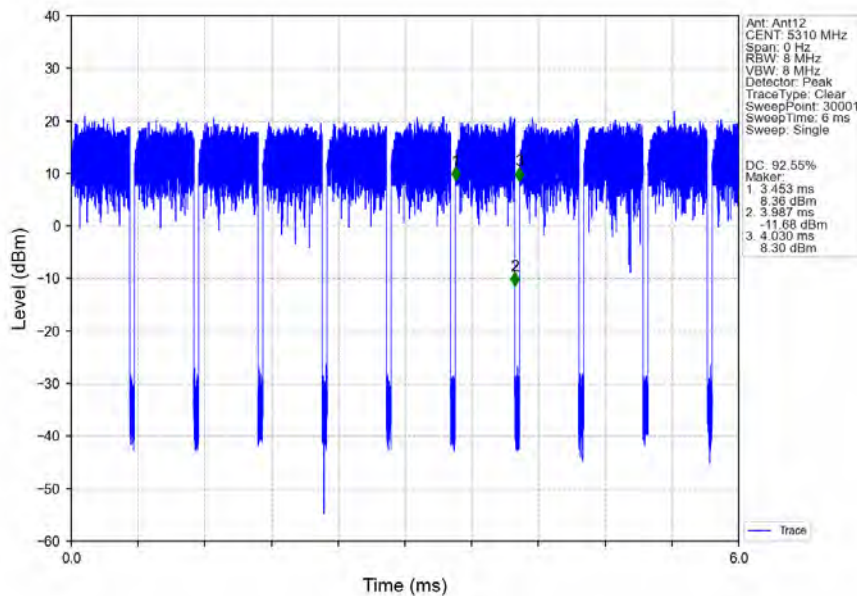
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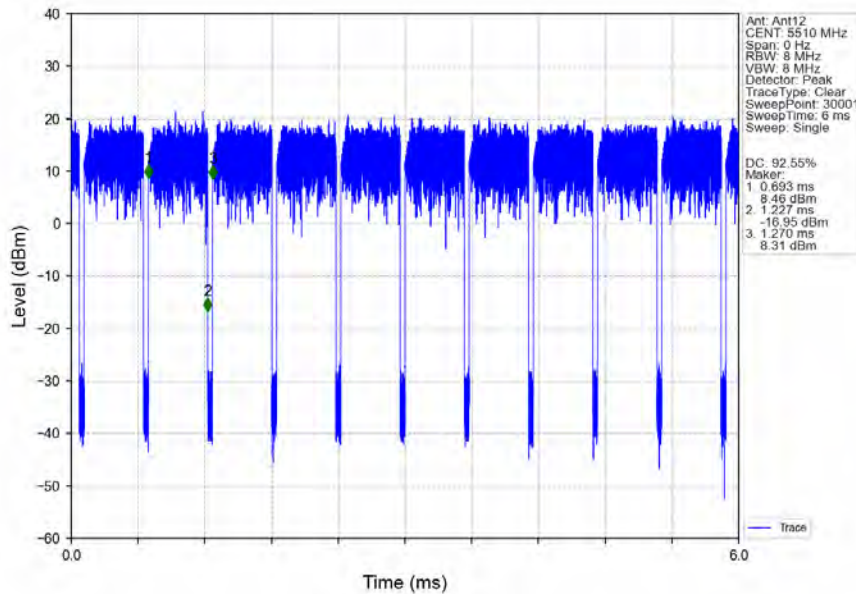
802.11ax(HEW40)_LCH_5270MHz_RU484_Left_Ant12_NTNV



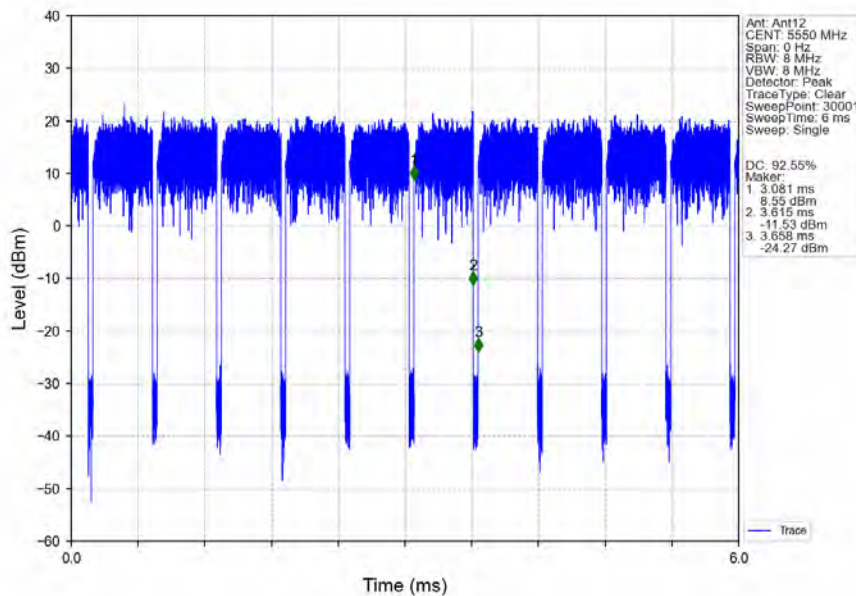
802.11ax(HEW40)_HCH_5310MHz_RU484_Left_Ant12_NTNV



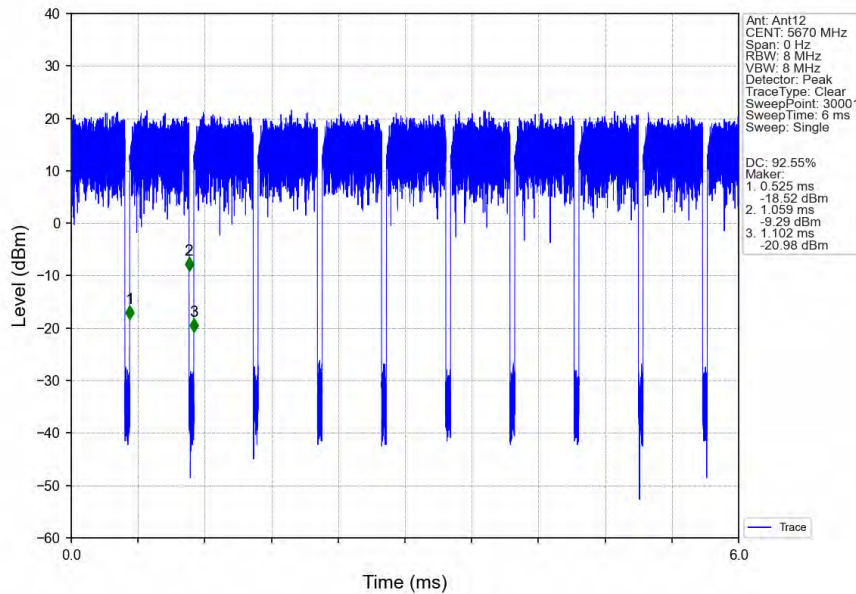
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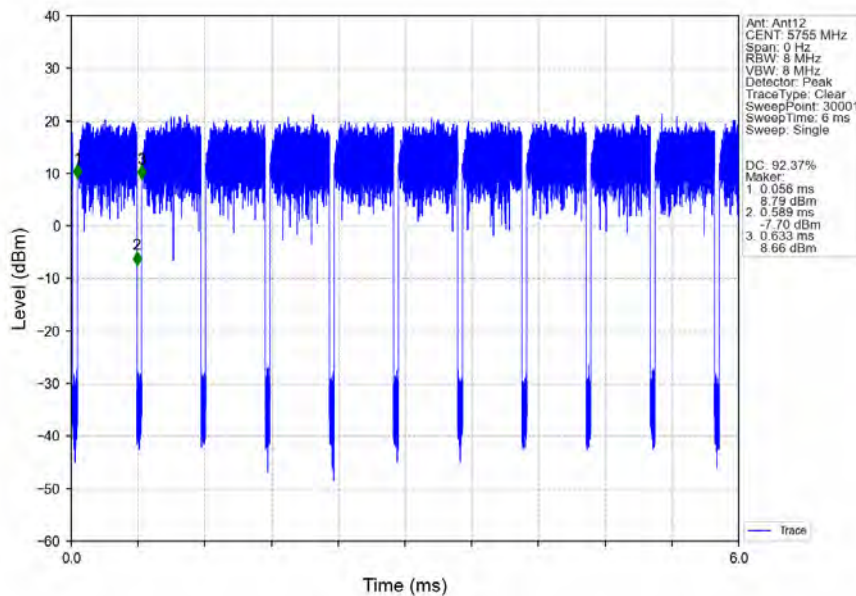
802.11ax(HEW40)_MCH_5550MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW40)_HCH_5670MHz_RU484_Left_Ant12_NTNV



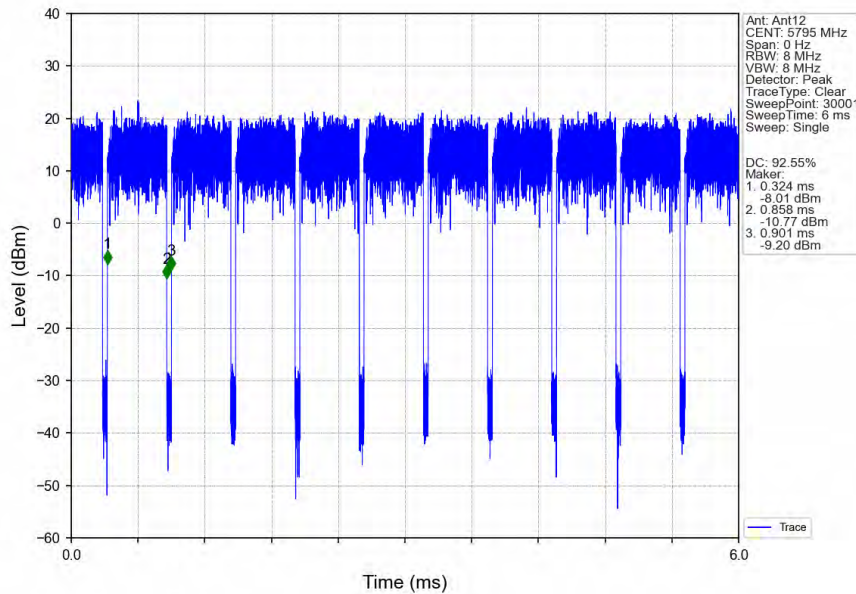
802.11ax(HEW40)_LCH_5755MHz_RU484_Left_Ant12_NTNV



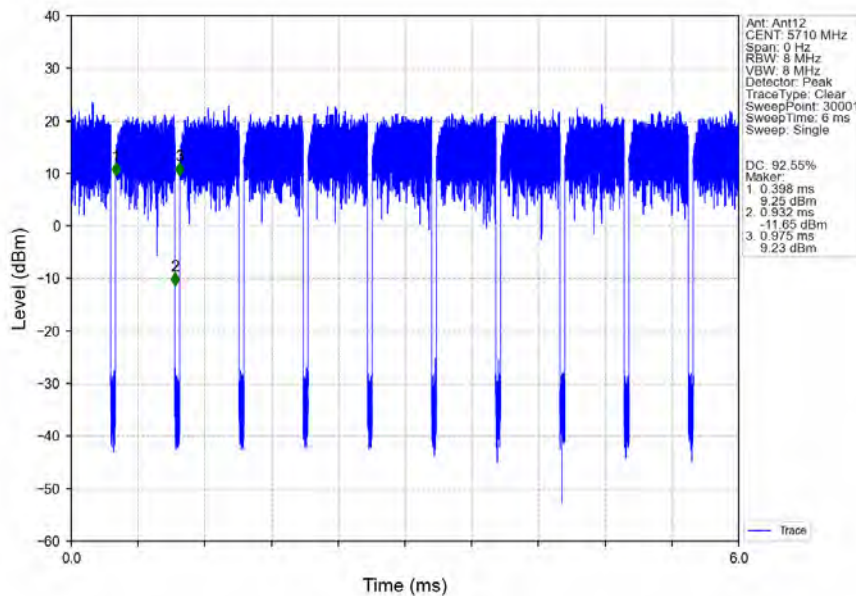
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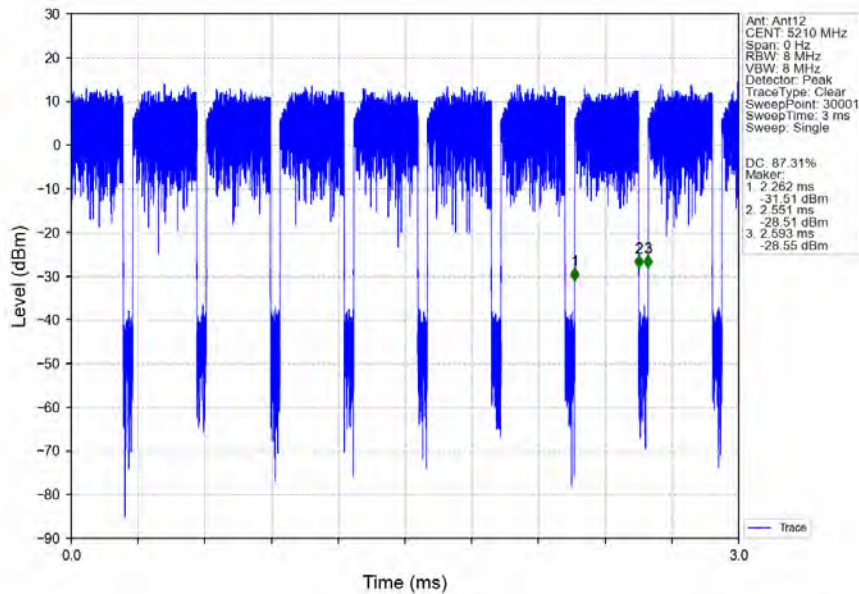
802.11ax(HEW40)_HCH_5795MHz_RU484_Left_Ant12_NTNV



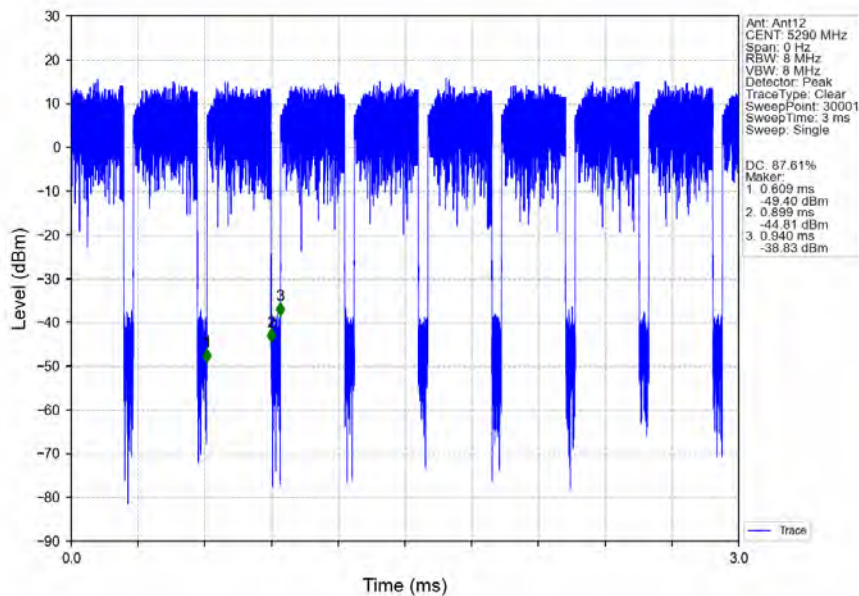
802.11ax(HEW40)_HCH_5710MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant12_NTNV



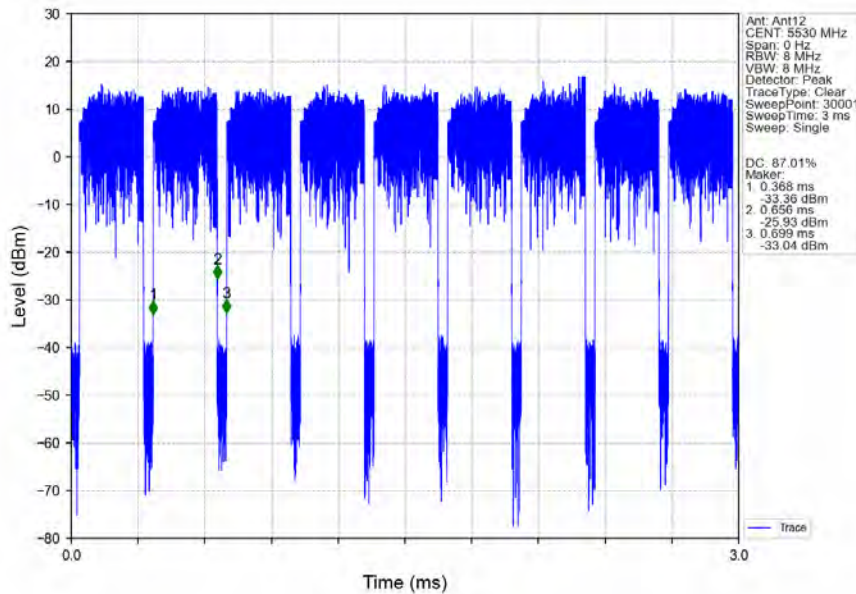
802.11ax(HEW80)_MCH_5290MHz_RU996_Left_Ant12_NTNV



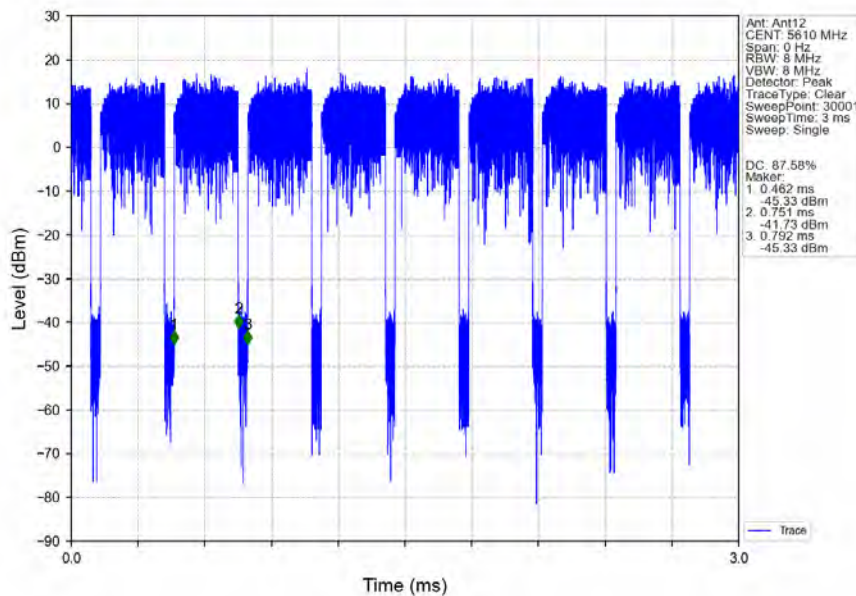
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802.11ax(HEW80)_LCH_5530MHz_RU996_Left_Ant12_NTNV



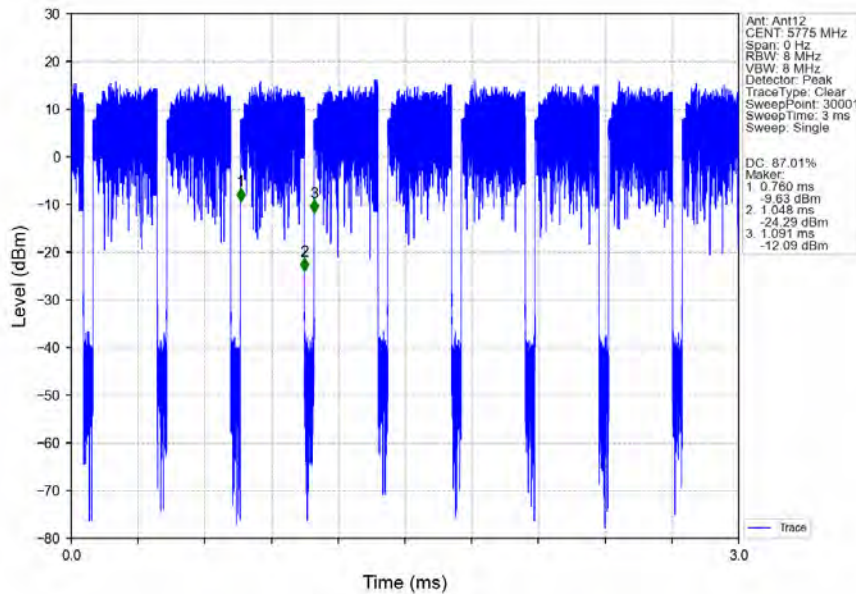
802.11ax(HEW80)_HCH_5610MHz_RU996_Left_Ant12_NTNV



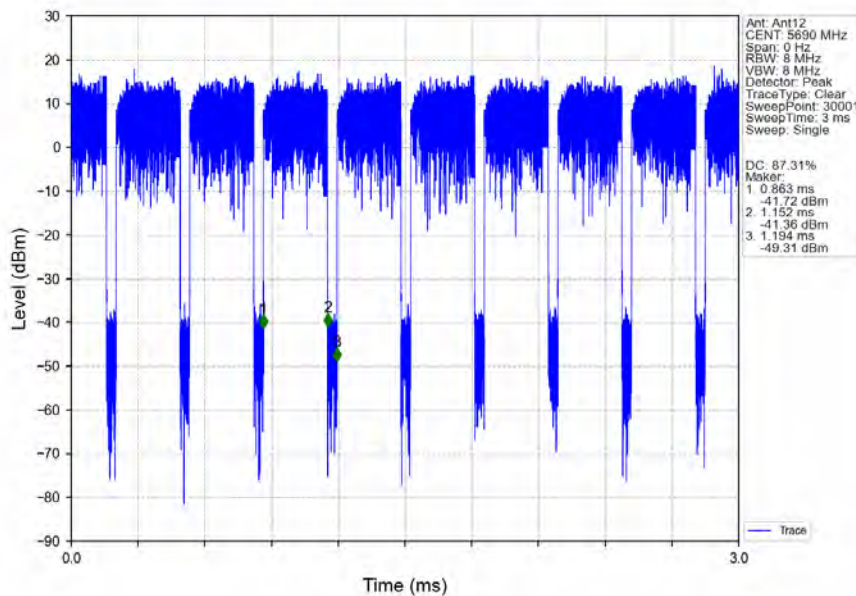
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802.11ax(HEW80)_MCH_5775MHz_RU996_Left_Ant12_NTNV



802.11ax(HEW80)_HCH_5690MHz_RU996_Left_Ant12_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	12	17.397	/	Pass
		5200	/	/	12	17.479	/	Pass
		5240	/	/	12	17.168	/	Pass
		5260	/	/	12	17.301	/	Pass
		5300	/	/	12	17.408	/	Pass
		5320	/	/	12	17.406	/	Pass
		5500	/	/	12	17.489	/	Pass
		5580	/	/	12	17.245	/	Pass
		5700	/	/	12	17.353	/	Pass
		5745	/	/	12	17.302	/	Pass
		5785	/	/	12	17.250	/	Pass
		5825	/	/	12	17.109	/	Pass
		5720	/	/	12	17.213	/	Pass
802.11n (HT20)	MIMO	5180	/	/	12	18.392	/	Pass
		5200	/	/	12	18.659	/	Pass
		5240	/	/	12	18.302	/	Pass
		5260	/	/	12	18.334	/	Pass
		5300	/	/	12	18.455	/	Pass
		5320	/	/	12	18.398	/	Pass
		5500	/	/	12	18.652	/	Pass
		5580	/	/	12	18.297	/	Pass
		5700	/	/	12	18.356	/	Pass
		5745	/	/	12	18.278	/	Pass
		5785	/	/	12	18.238	/	Pass
		5825	/	/	12	18.459	/	Pass
		5720	/	/	12	18.413	/	Pass
802.11n (HT40)	MIMO	5190	/	/	12	36.868	/	Pass
		5230	/	/	12	36.560	/	Pass
		5270	/	/	12	36.723	/	Pass
		5310	/	/	12	36.944	/	Pass
		5510	/	/	12	36.970	/	Pass



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		5550	/	/	12	36.528	/	Pass
		5670	/	/	12	37.399	/	Pass
		5755	/	/	12	36.953	/	Pass
		5795	/	/	12	36.512	/	Pass
		5710	/	/	12	36.723	/	Pass
802.11ac (VHT20)	MIMO	5180	/	/	12	18.337	/	Pass
		5200	/	/	12	18.529	/	Pass
		5240	/	/	12	18.182	/	Pass
		5260	/	/	12	18.255	/	Pass
		5300	/	/	12	18.578	/	Pass
		5320	/	/	12	18.584	/	Pass
		5500	/	/	12	18.319	/	Pass
		5580	/	/	12	18.207	/	Pass
		5700	/	/	12	18.164	/	Pass
		5745	/	/	12	20.005	/	Pass
		5785	/	/	12	18.125	/	Pass
		5825	/	/	12	19.857	/	Pass
		5720	/	/	12	18.232	/	Pass
802.11ac (VHT40)	MIMO	5190	/	/	12	36.062	/	Pass
		5230	/	/	12	36.342	/	Pass
		5270	/	/	12	36.485	/	Pass
		5310	/	/	12	36.780	/	Pass
		5510	/	/	12	36.830	/	Pass
		5550	/	/	12	36.533	/	Pass
		5670	/	/	12	37.253	/	Pass
		5755	/	/	12	36.923	/	Pass
		5795	/	/	12	36.494	/	Pass
802.11ac (VHT80)	MIMO	5710	/	/	12	36.685	/	Pass
		5210	/	/	12	76.940	/	Pass
		5290	/	/	12	76.882	/	Pass
		5530	/	/	12	76.996	/	Pass
		5610	/	/	12	76.221	/	Pass
		5775	/	/	12	76.377	/	Pass
802.11ax (HEW20)	MIMO	5690	/	/	12	76.220	/	Pass
		5180	RU242	Left	12	19.190	/	Pass
		5200	RU242	Left	12	19.266	/	Pass
		5240	RU242	Left	12	19.089	/	Pass
		5260	RU242	Left	12	19.146	/	Pass
		5300	RU242	Left	12	19.314	/	Pass
		5320	RU242	Left	12	19.206	/	Pass



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		5500	RU242	Left	12	19.208	/	Pass
		5580	RU242	Left	12	19.041	/	Pass
		5700	RU242	Left	12	19.241	/	Pass
		5745	RU242	Left	12	19.227	/	Pass
		5785	RU242	Left	12	19.131	/	Pass
		5825	RU242	Left	12	19.139	/	Pass
		5720	RU242	Left	12	19.068	/	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	12	37.238	/	Pass
		5230	RU484	Left	12	37.726	/	Pass
		5270	RU484	Left	12	37.702	/	Pass
		5310	RU484	Left	12	38.104	/	Pass
		5510	RU484	Left	12	38.143	/	Pass
		5550	RU484	Left	12	37.750	/	Pass
		5670	RU484	Left	12	38.212	/	Pass
		5755	RU484	Left	12	38.103	/	Pass
		5795	RU484	Left	12	37.762	/	Pass
		5710	RU484	Left	12	37.784	/	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	12	78.535	/	Pass
		5290	RU996	Left	12	78.257	/	Pass
		5530	RU996	Left	12	78.366	/	Pass
		5610	RU996	Left	12	77.958	/	Pass
		5775	RU996	Left	12	77.745	/	Pass
		5690	RU996	Left	12	77.976	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	12	27.107	/	Pass
		5200	/	/	12	31.064	/	Pass
		5240	/	/	12	21.847	/	Pass
		5260	/	/	12	26.362	/	Pass
		5300	/	/	12	26.120	/	Pass
		5320	/	/	12	28.192	/	Pass
		5500	/	/	12	26.906	/	Pass
		5580	/	/	12	23.549	/	Pass
		5700	/	/	12	26.631	/	Pass
		5720	/	/	12	26.733	/	Pass
802.11n (HT20)	MIMO	5180	/	/	12	28.710	/	Pass
		5200	/	/	12	27.527	/	Pass



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		5240	/	/	12	25.133	/	Pass
		5260	/	/	12	25.292	/	Pass
		5300	/	/	12	29.629	/	Pass
		5320	/	/	12	25.086	/	Pass
		5500	/	/	12	27.502	/	Pass
		5580	/	/	12	26.705	/	Pass
		5700	/	/	12	26.074	/	Pass
		5720	/	/	12	26.652	/	Pass
802.11n (HT40)	MIMO	5190	/	/	12	56.620	/	Pass
		5230	/	/	12	45.981	/	Pass
		5270	/	/	12	65.342	/	Pass
		5310	/	/	12	58.049	/	Pass
		5510	/	/	12	59.004	/	Pass
		5550	/	/	12	45.010	/	Pass
		5670	/	/	12	71.196	/	Pass
		5710	/	/	12	64.937	/	Pass
802.11ac (VHT20)	MIMO	5180	/	/	12	24.526	/	Pass
		5200	/	/	12	29.739	/	Pass
		5240	/	/	12	22.477	/	Pass
		5260	/	/	12	24.948	/	Pass
		5300	/	/	12	29.881	/	Pass
		5320	/	/	12	29.025	/	Pass
		5500	/	/	12	27.869	/	Pass
		5580	/	/	12	21.915	/	Pass
		5700	/	/	12	23.416	/	Pass
		5720	/	/	12	23.120	/	Pass
802.11ac (VHT40)	MIMO	5190	/	/	12	56.928	/	Pass
		5230	/	/	12	41.851	/	Pass
		5270	/	/	12	45.424	/	Pass
		5310	/	/	12	50.566	/	Pass
		5510	/	/	12	56.321	/	Pass
		5550	/	/	12	41.296	/	Pass
		5670	/	/	12	63.590	/	Pass
		5710	/	/	12	46.747	/	Pass
802.11ac (VHT80)	MIMO	5210	/	/	12	112.217	/	Pass
		5290	/	/	12	112.395	/	Pass
		5530	/	/	12	115.590	/	Pass
		5610	/	/	12	81.092	/	Pass
		5690	/	/	12	81.181	/	Pass
802.11ax	MIMO	5180	RU242	Left	12	27.266	/	Pass



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250900383306

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(HEW20)		5200	RU242	Left	12	26.246	/	Pass
		5240	RU242	Left	12	21.810	/	Pass
		5260	RU242	Left	12	21.859	/	Pass
		5300	RU242	Left	12	26.682	/	Pass
		5320	RU242	Left	12	24.100	/	Pass
		5500	RU242	Left	12	26.557	/	Pass
		5580	RU242	Left	12	21.891	/	Pass
		5700	RU242	Left	12	25.368	/	Pass
		5720	RU242	Left	12	21.630	/	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	12	52.157	/	Pass
		5230	RU484	Left	12	39.903	/	Pass
		5270	RU484	Left	12	40.123	/	Pass
		5310	RU484	Left	12	57.529	/	Pass
		5510	RU484	Left	12	50.196	/	Pass
		5550	RU484	Left	12	40.212	/	Pass
		5670	RU484	Left	12	62.445	/	Pass
		5710	RU484	Left	12	40.117	/	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	12	93.738	/	Pass
		5290	RU996	Left	12	85.198	/	Pass
		5530	RU996	Left	12	87.723	/	Pass
		5610	RU996	Left	12	81.778	/	Pass
		5690	RU996	Left	12	81.942	/	Pass

2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	12	14.863	>=0.5	Pass
		5785	/	/	12	15.339	>=0.5	Pass
		5825	/	/	12	12.688	>=0.5	Pass
802.11n (HT20)	MIMO	5745	/	/	12	15.135	>=0.5	Pass
		5785	/	/	12	15.761	>=0.5	Pass
		5825	/	/	12	17.362	>=0.5	Pass
802.11n (HT40)	MIMO	5755	/	/	12	35.170	>=0.5	Pass
		5795	/	/	12	35.145	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	/	/	12	14.872	>=0.5	Pass
		5785	/	/	12	13.847	>=0.5	Pass
		5825	/	/	12	13.903	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	/	/	12	35.139	>=0.5	Pass
		5795	/	/	12	35.160	>=0.5	Pass

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802.11ac (VHT80)	MIMO	5775	/	/	12	76.077	>=0.5	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	12	16.306	>=0.5	Pass
		5785	RU242	Left	12	15.141	>=0.5	Pass
		5825	RU242	Left	12	15.081	>=0.5	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	12	35.559	>=0.5	Pass
		5795	RU484	Left	12	36.153	>=0.5	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	12	77.998	>=0.5	Pass



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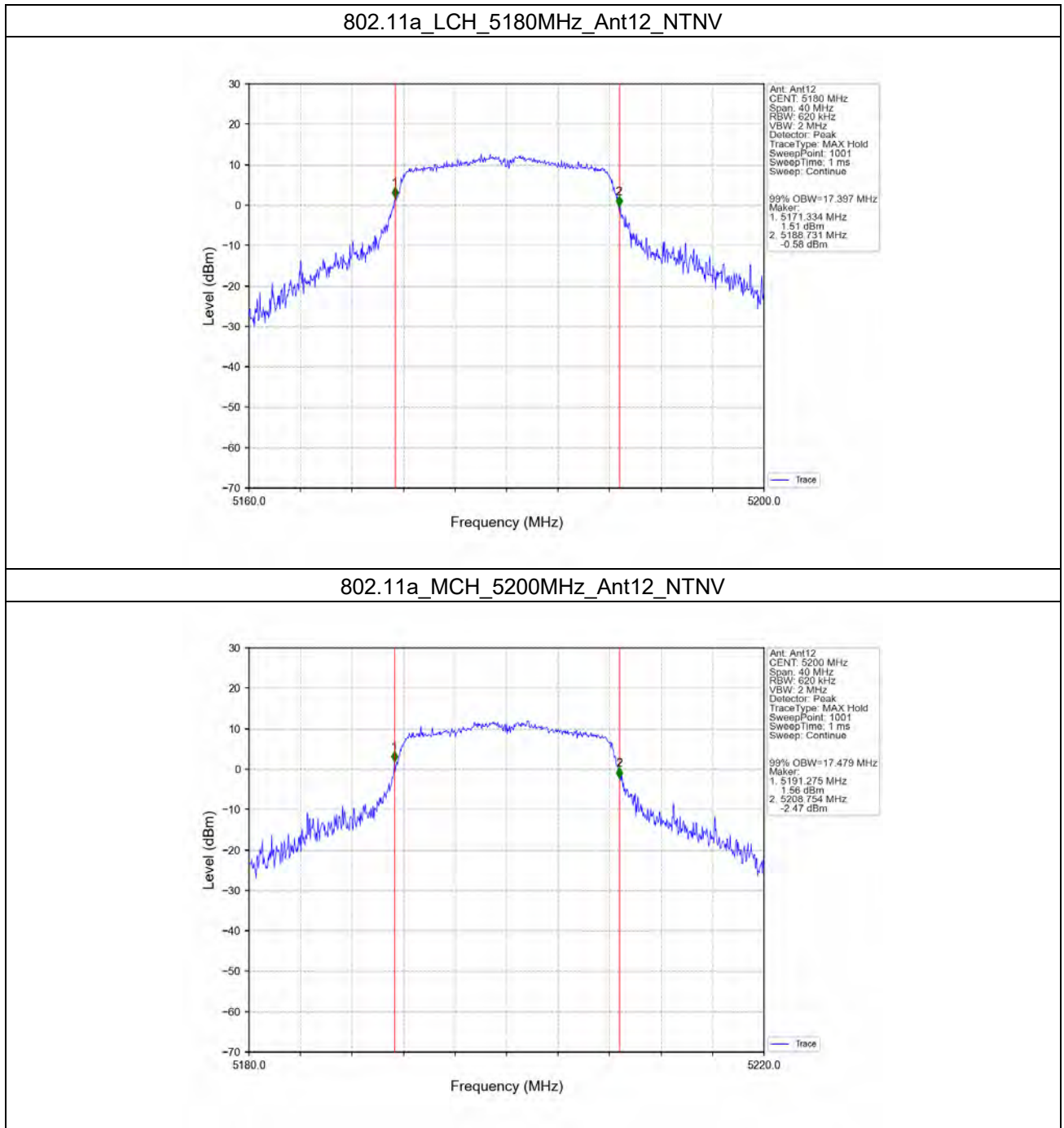
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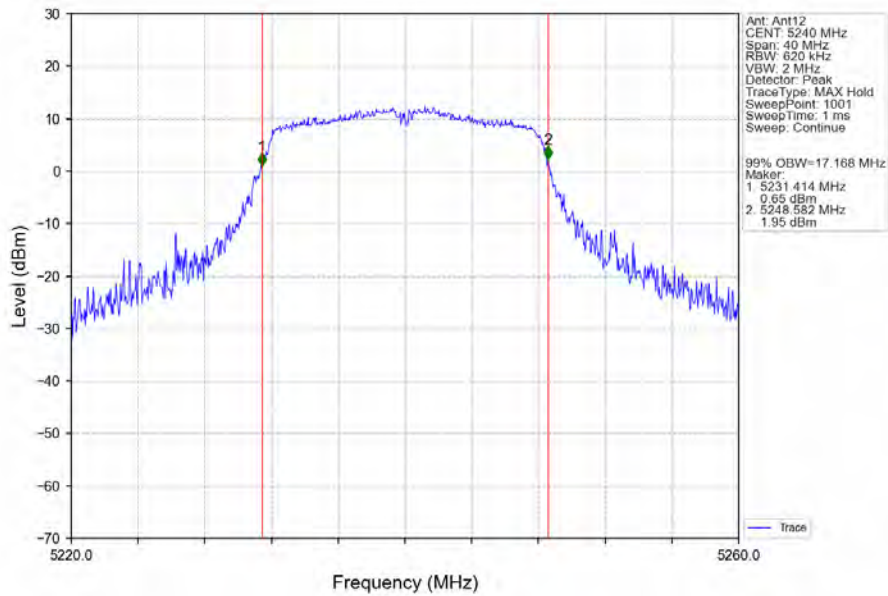
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2.2 Test Graph

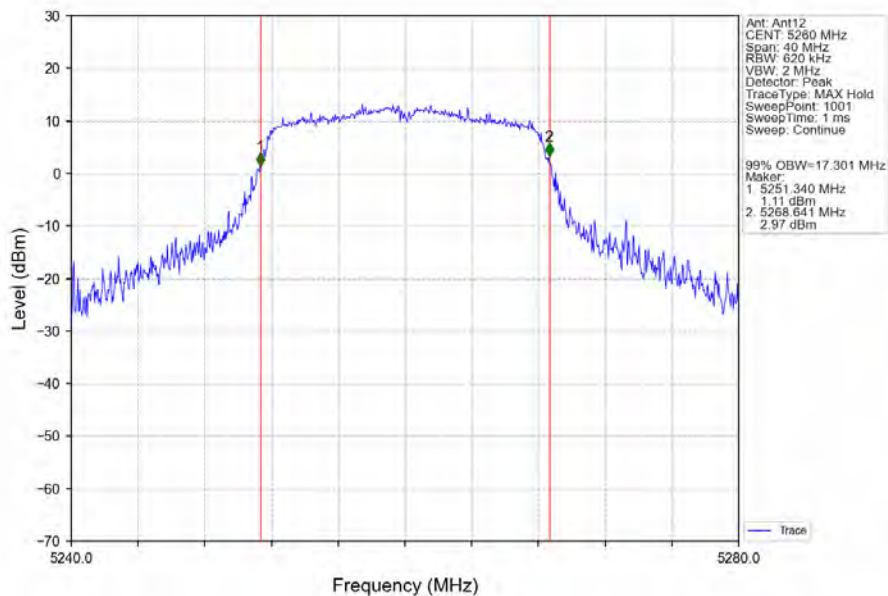
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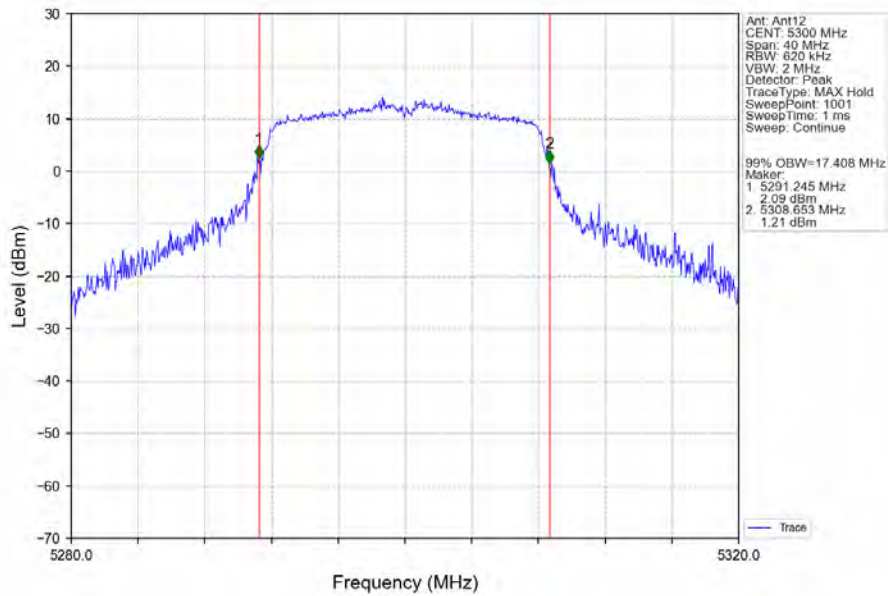
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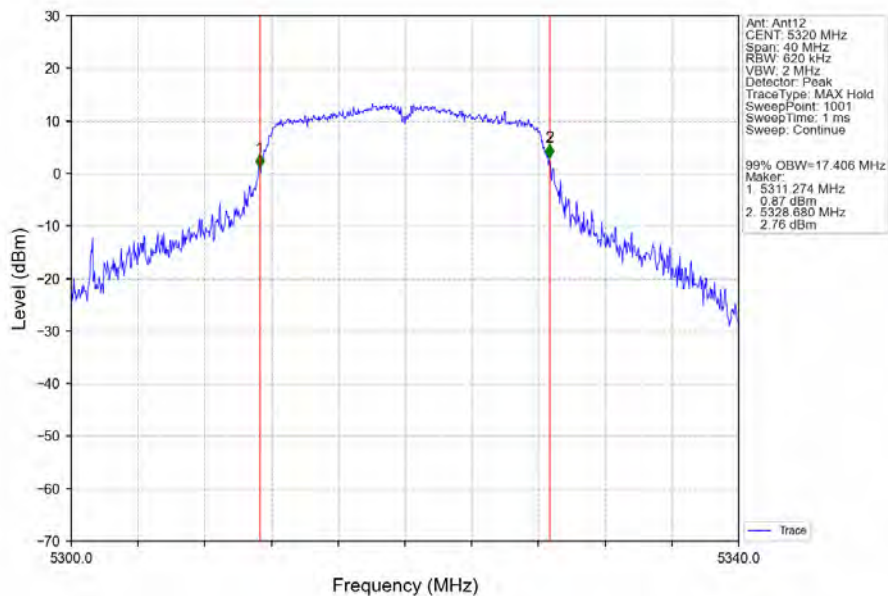
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802.11a_MCH_5300MHz_Ant12_NTNV



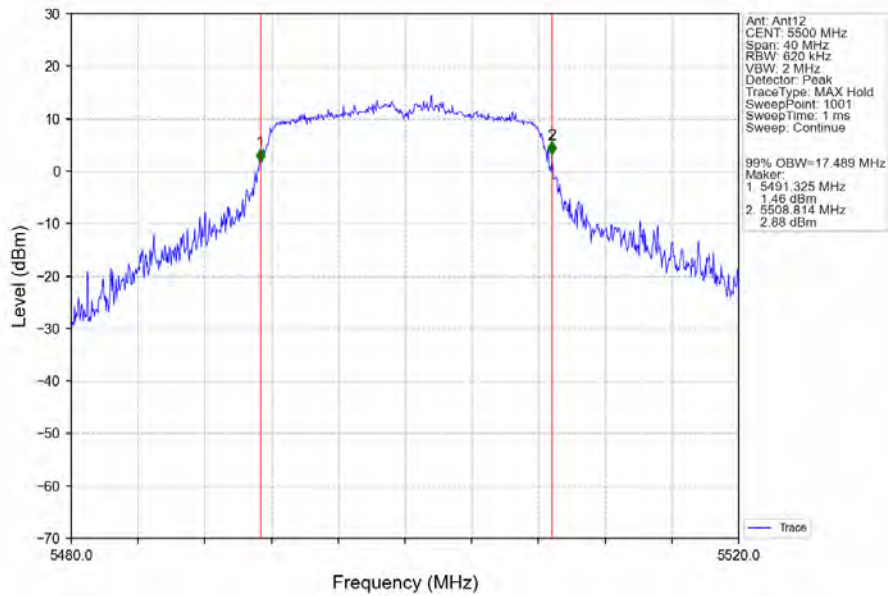
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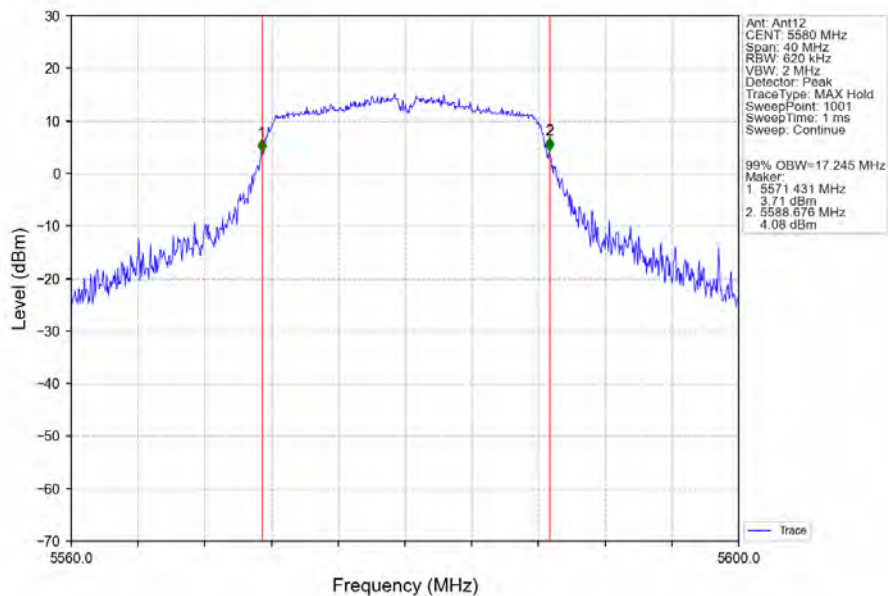
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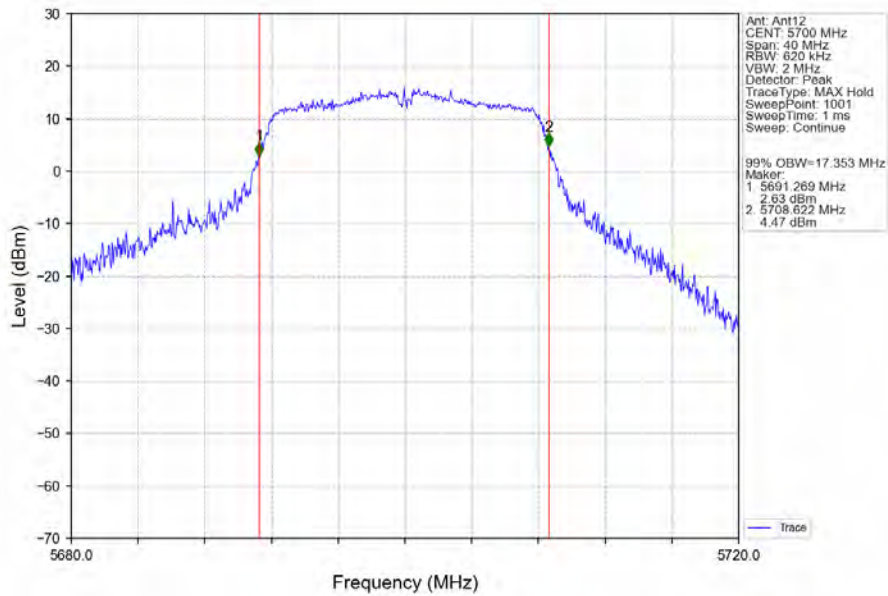
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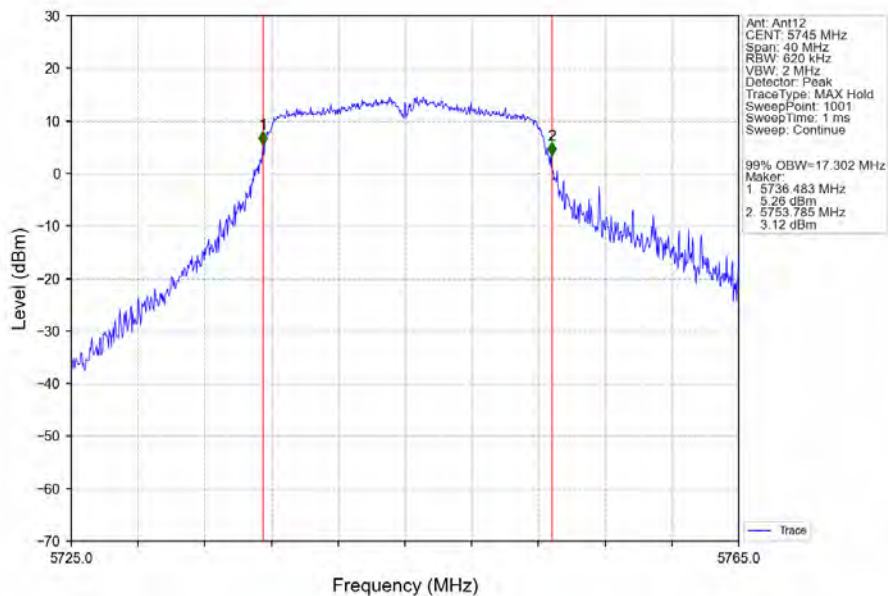
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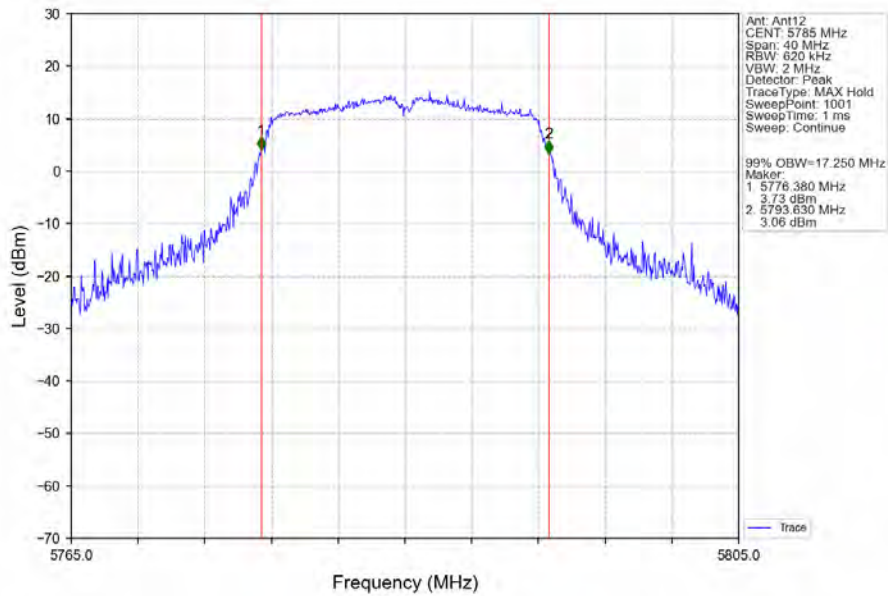
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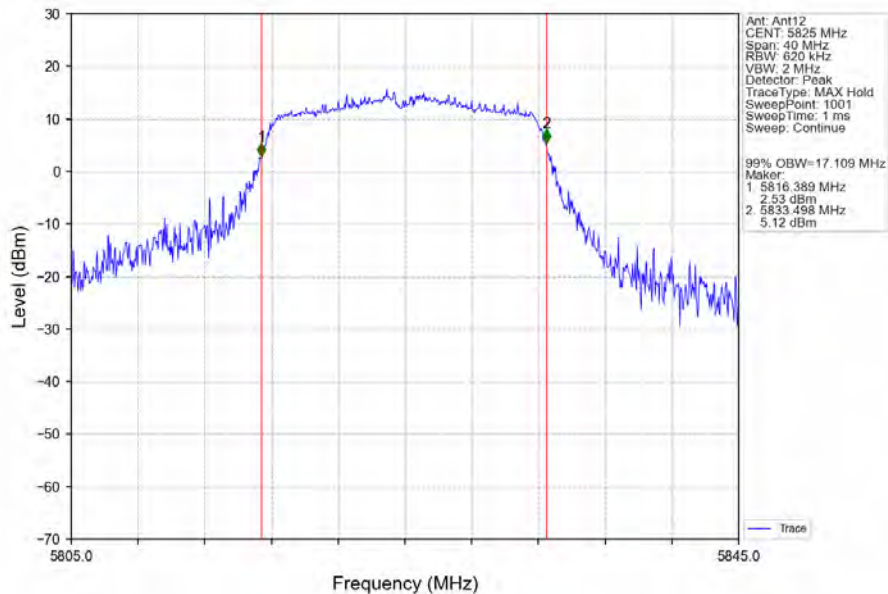
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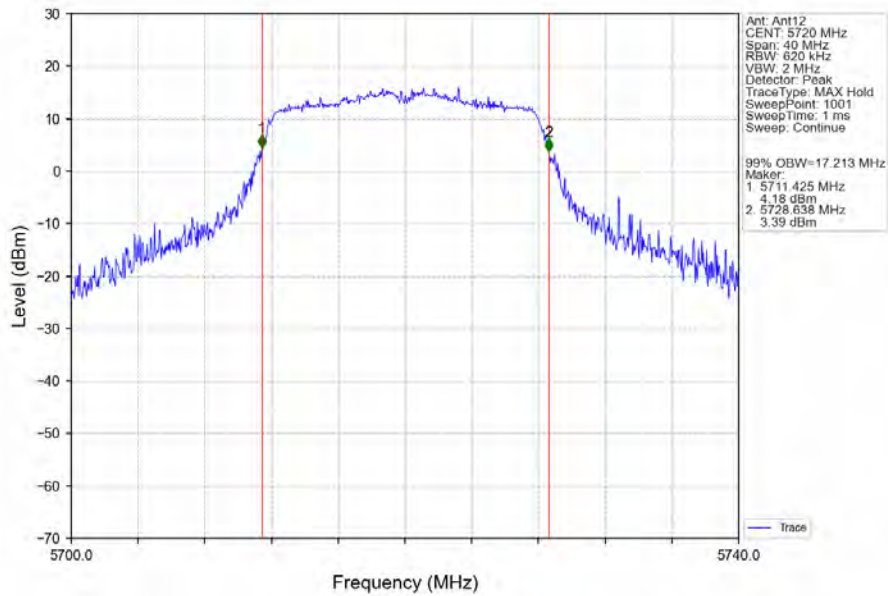
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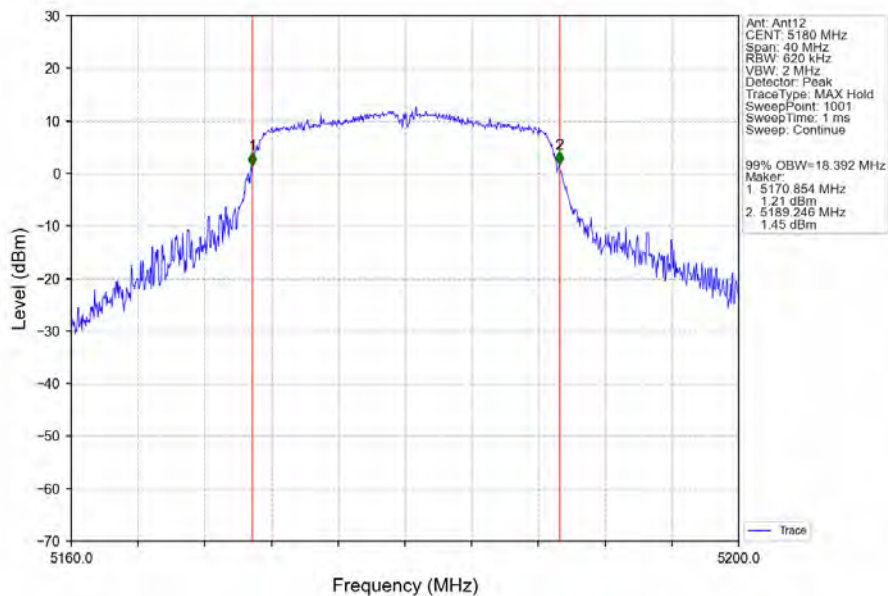
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802.11a_HCH_5720MHz_Ant12_NTNV



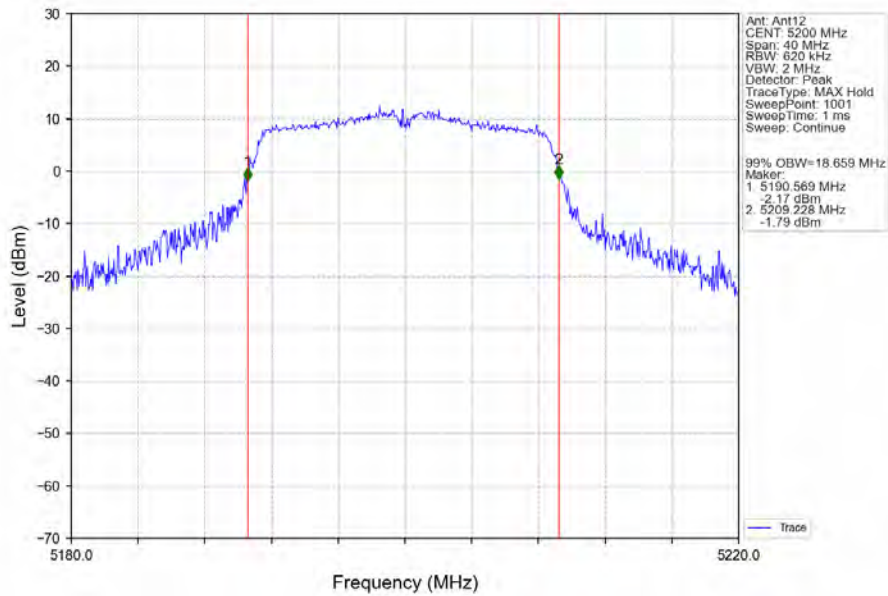
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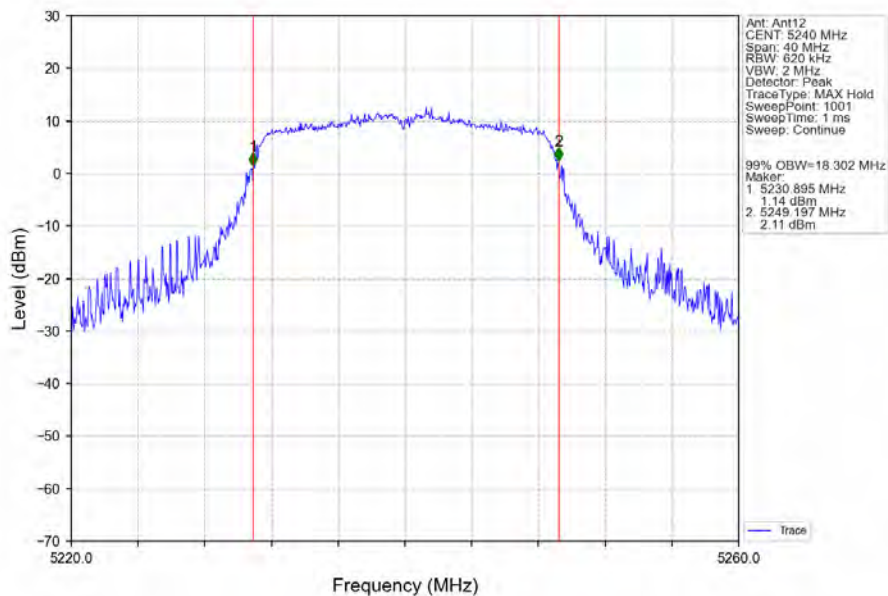
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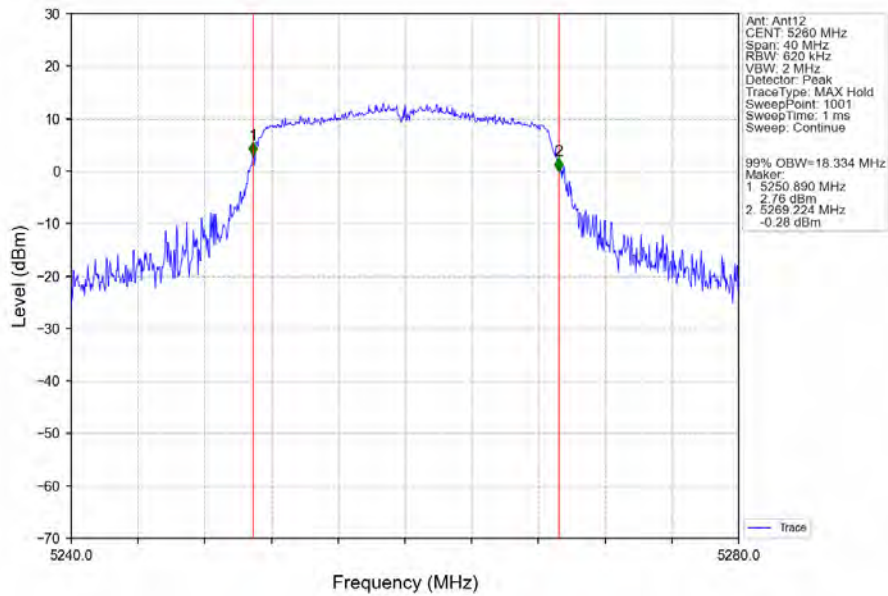
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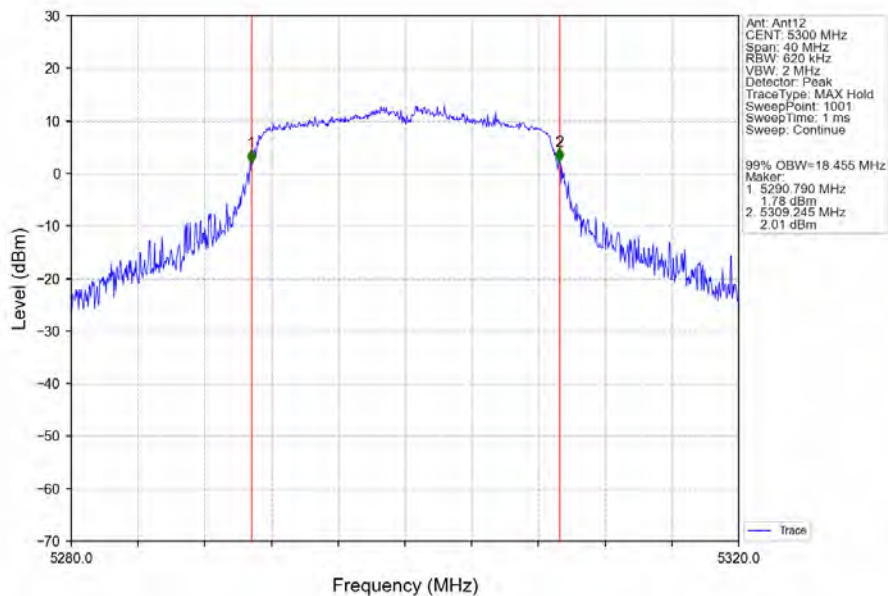
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802.11n(HT20)_MCH_5300MHz_Ant12_NTNV



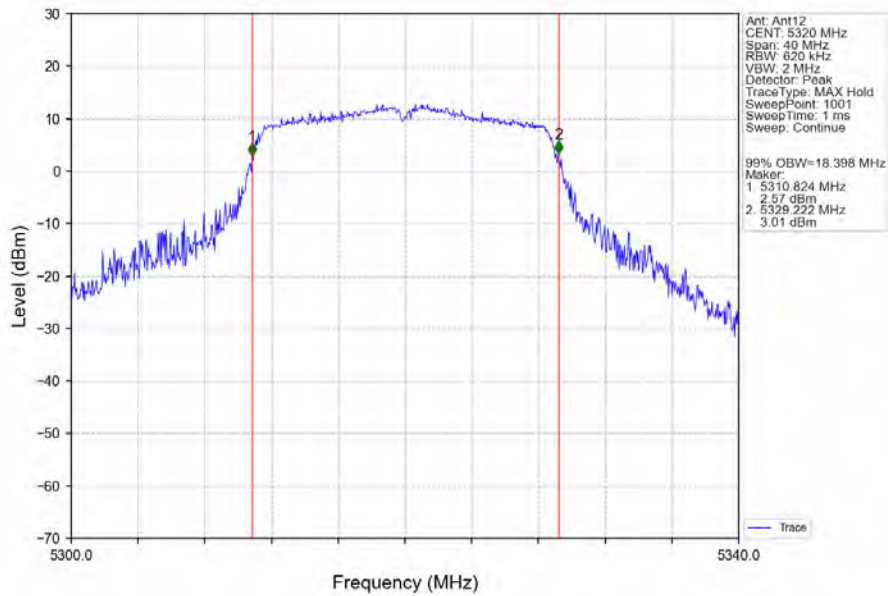
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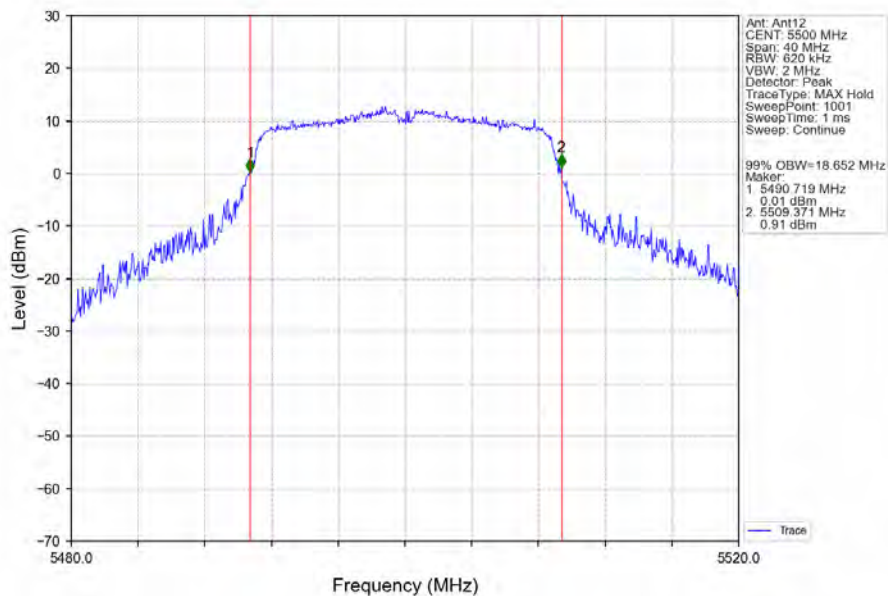
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802.11n(HT20)_HCH_5320MHz_Ant12_NTNV



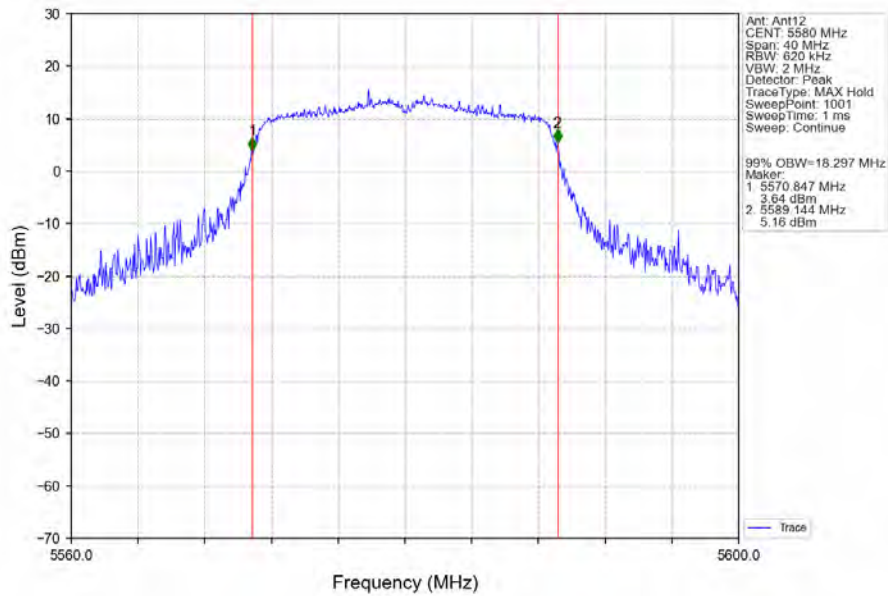
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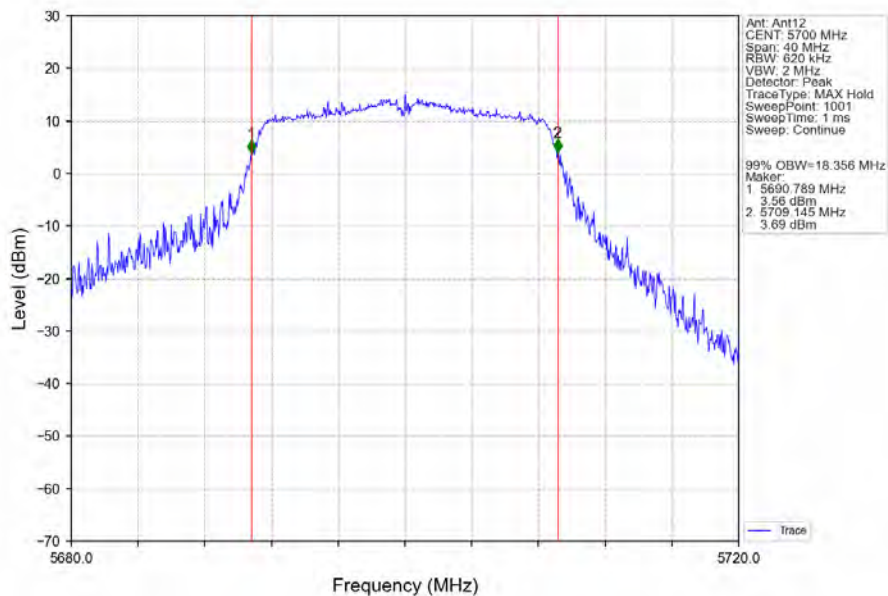
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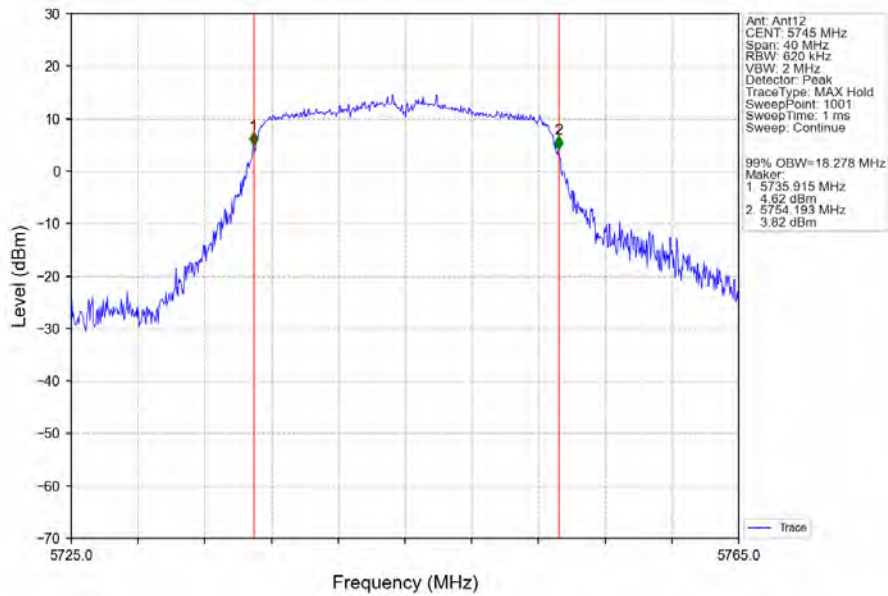
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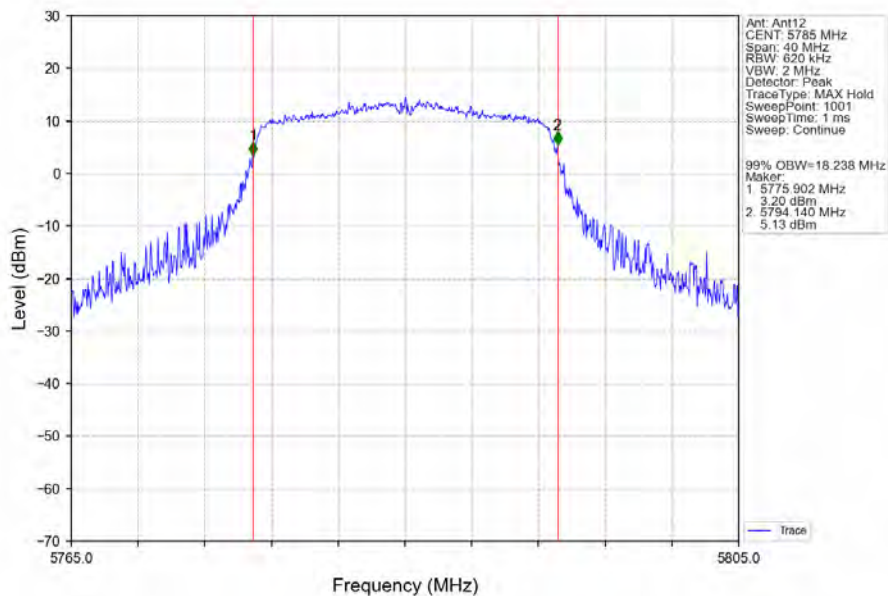
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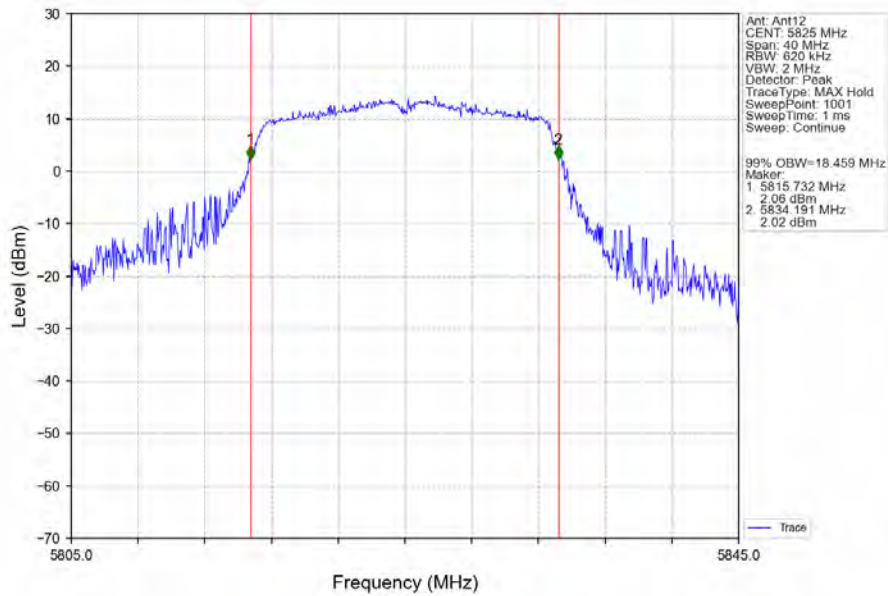
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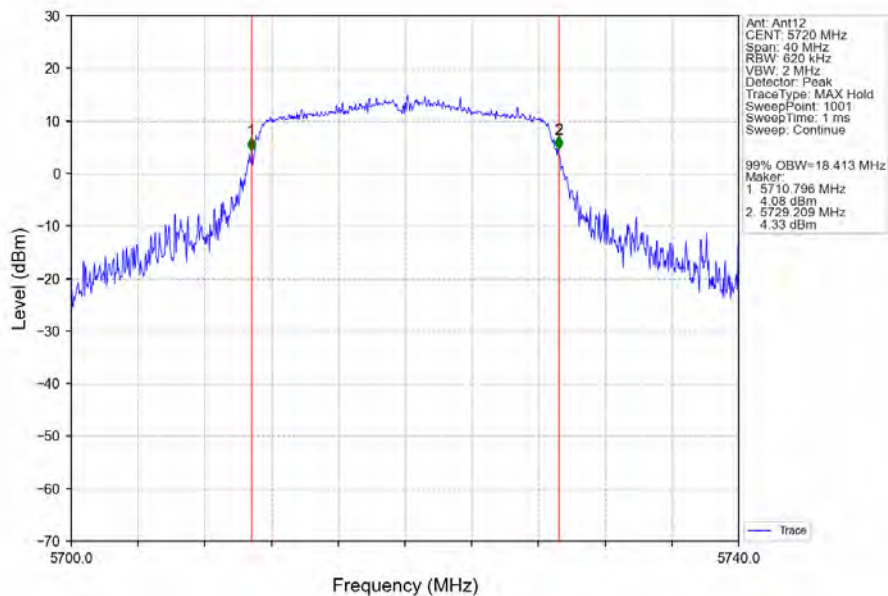
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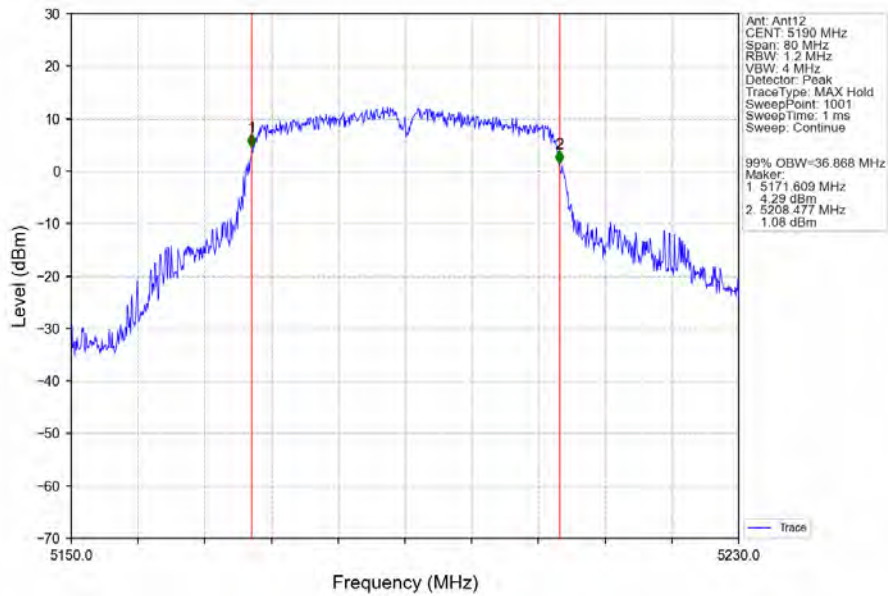
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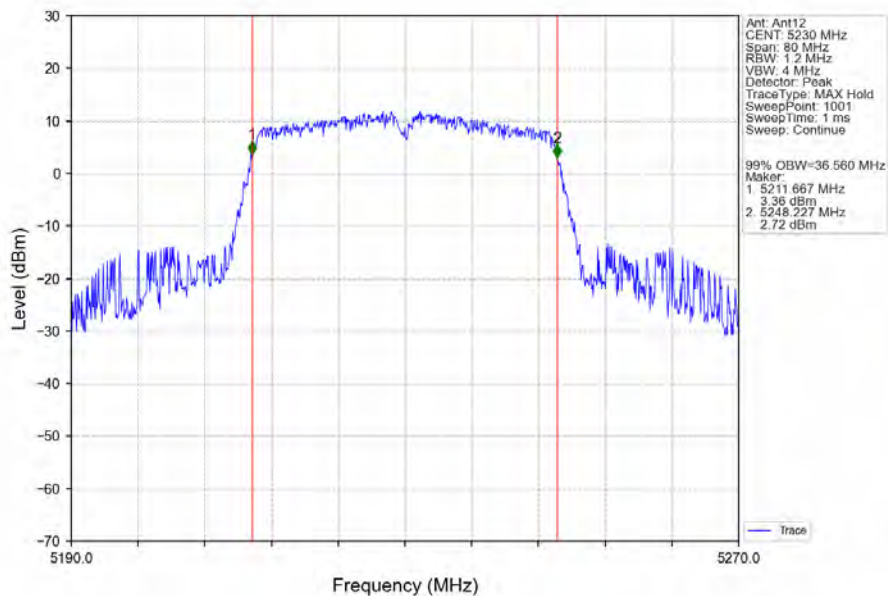
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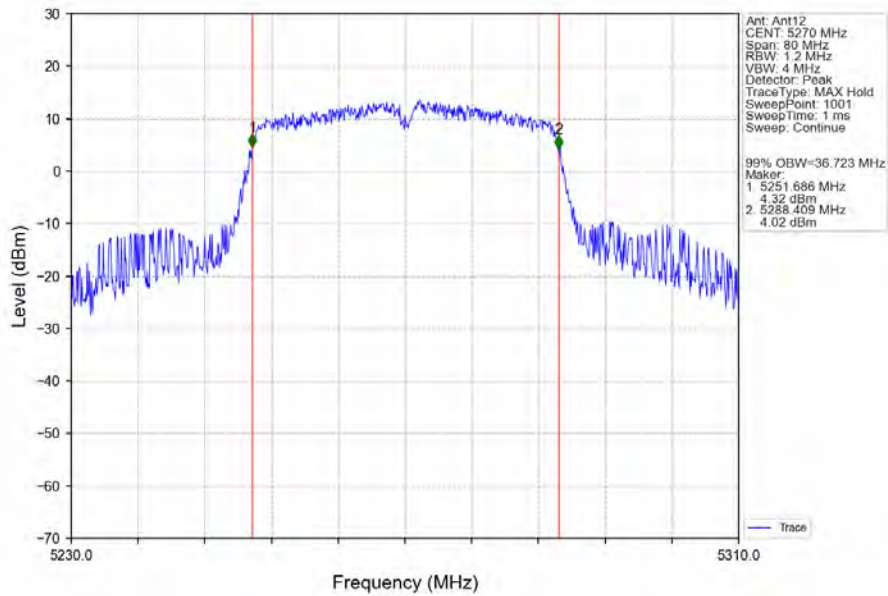
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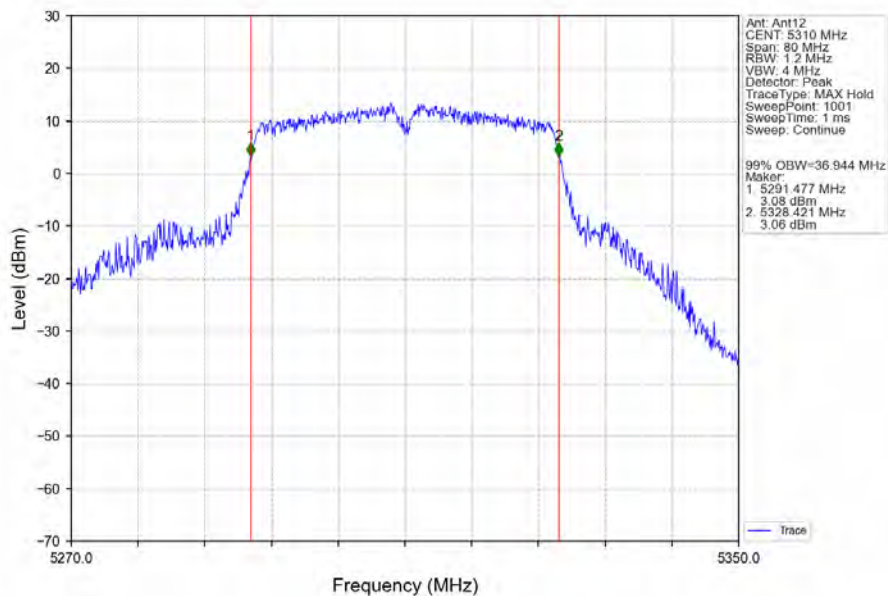
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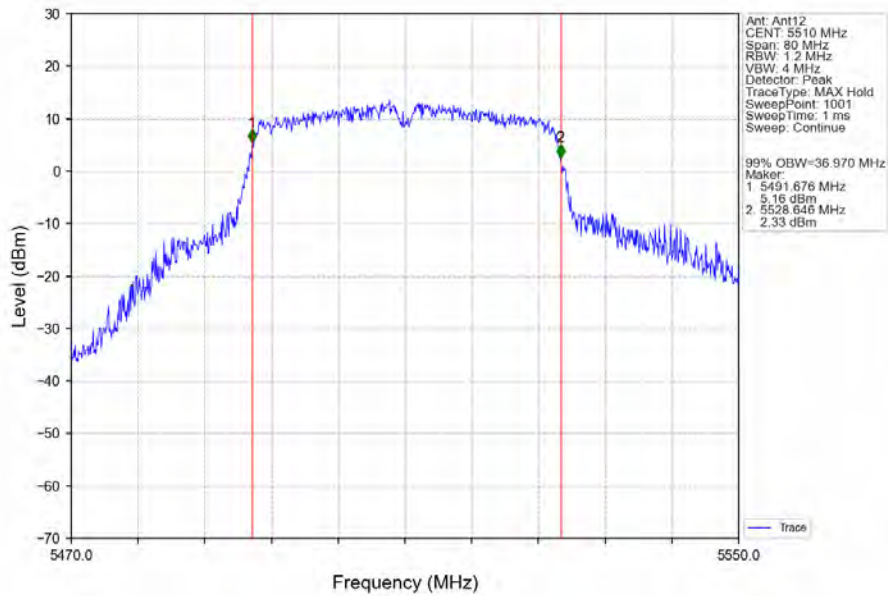
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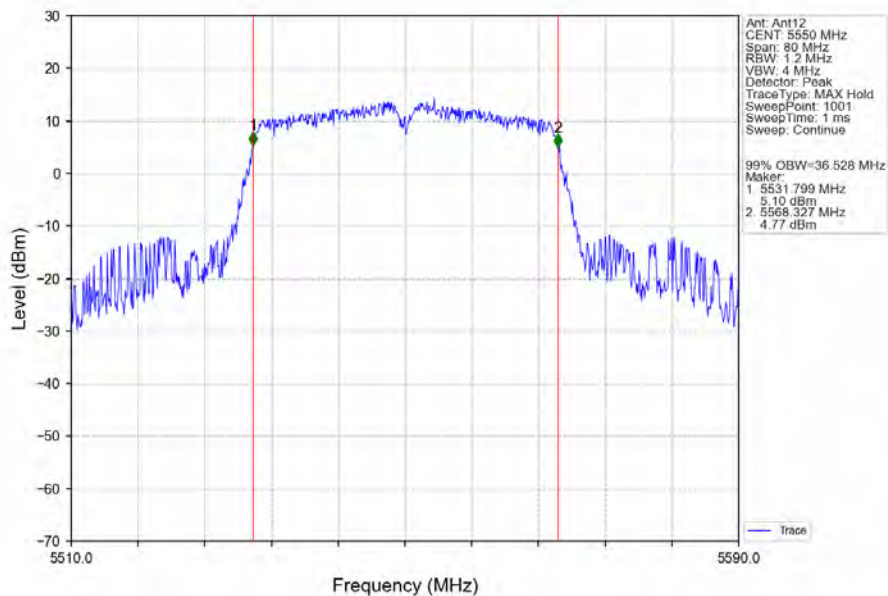
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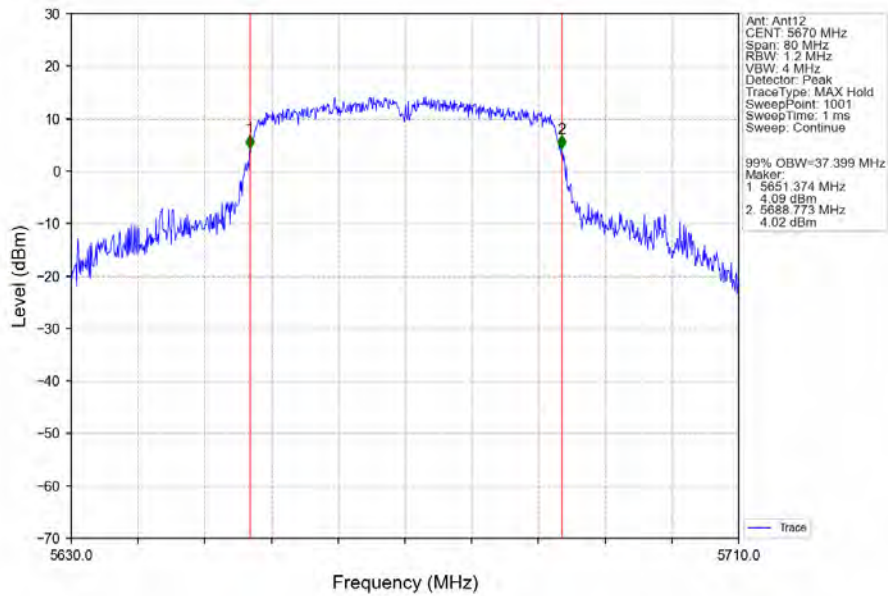
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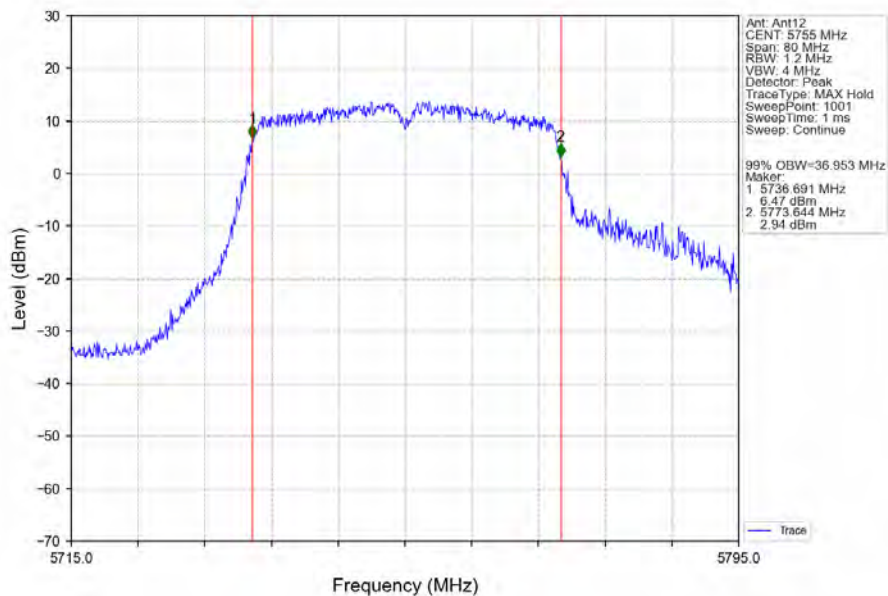
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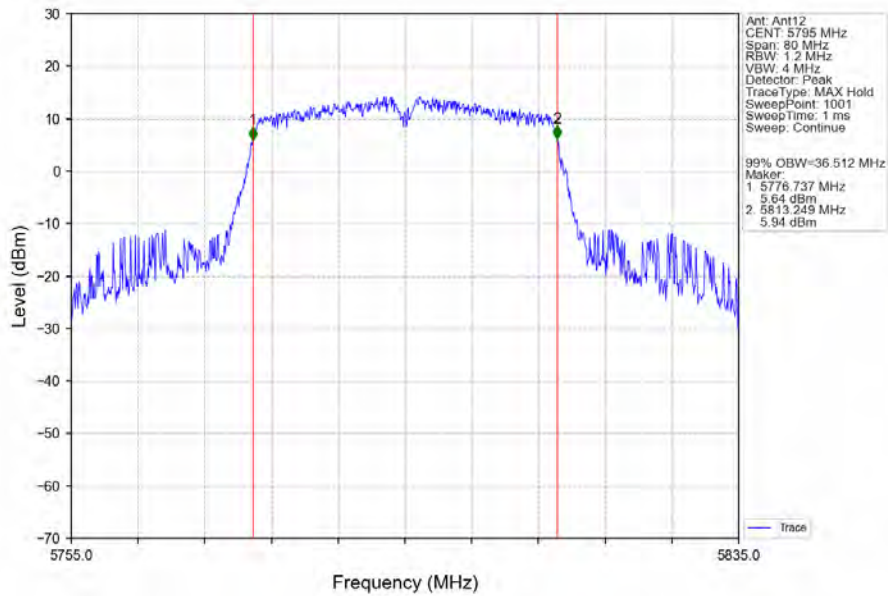
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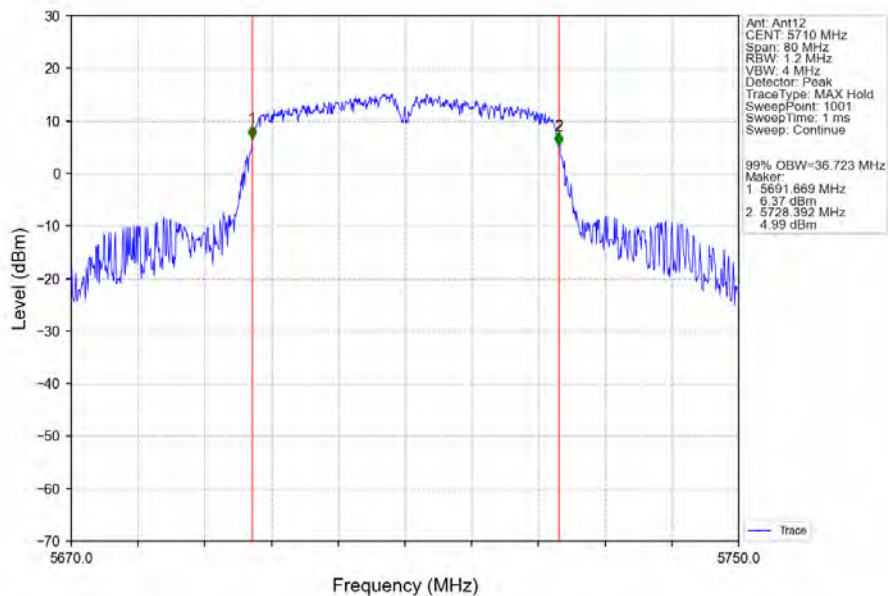
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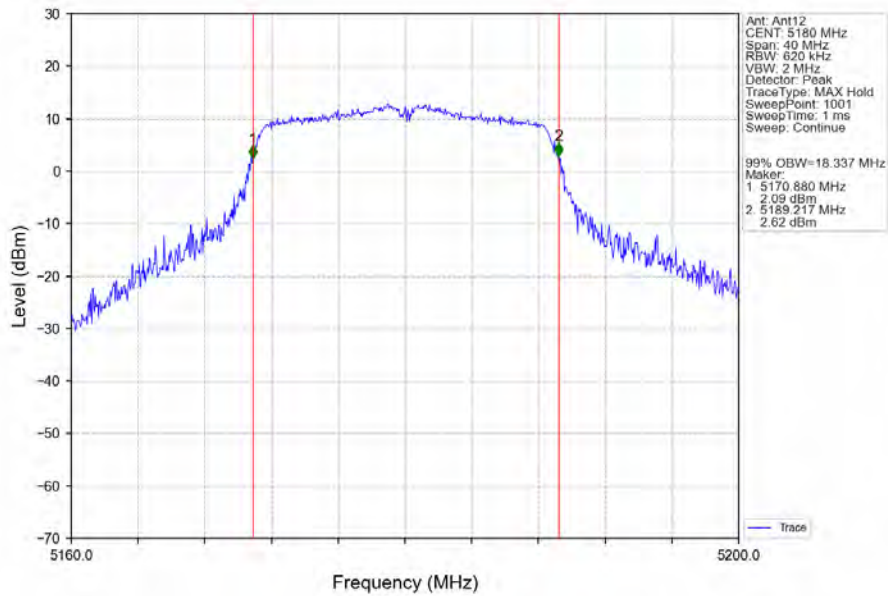
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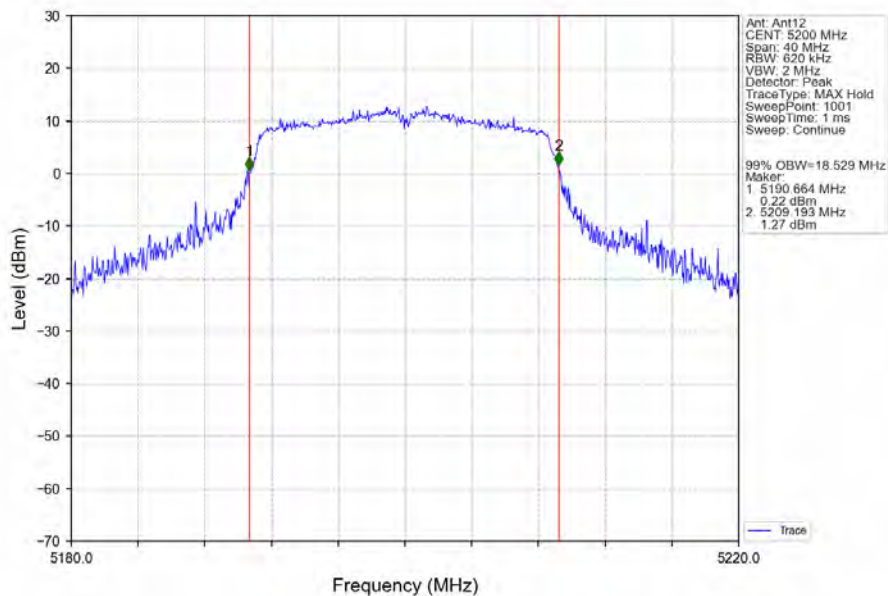
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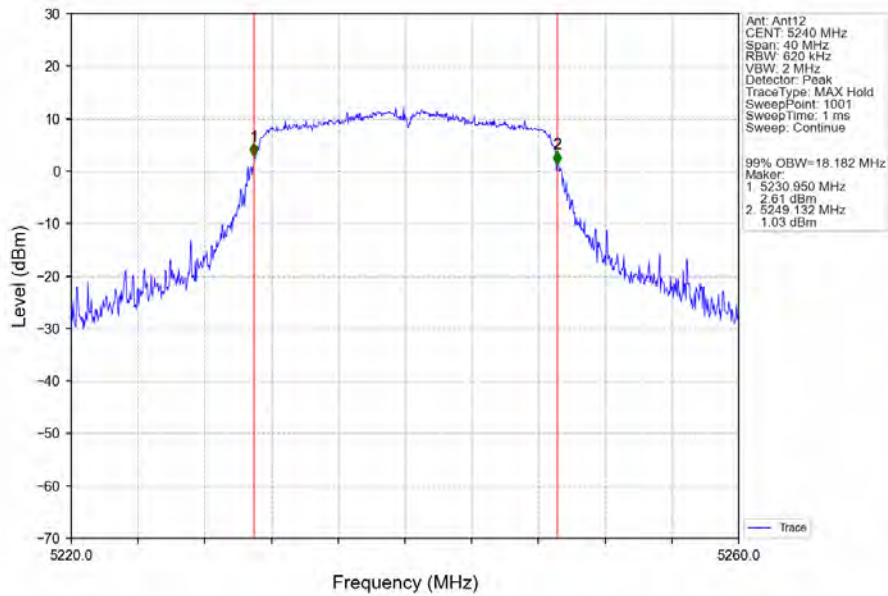
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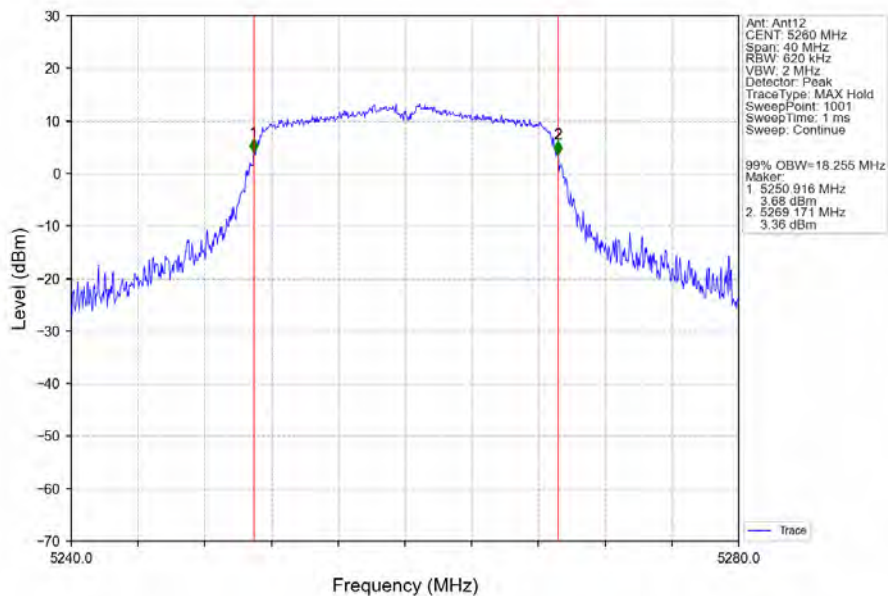
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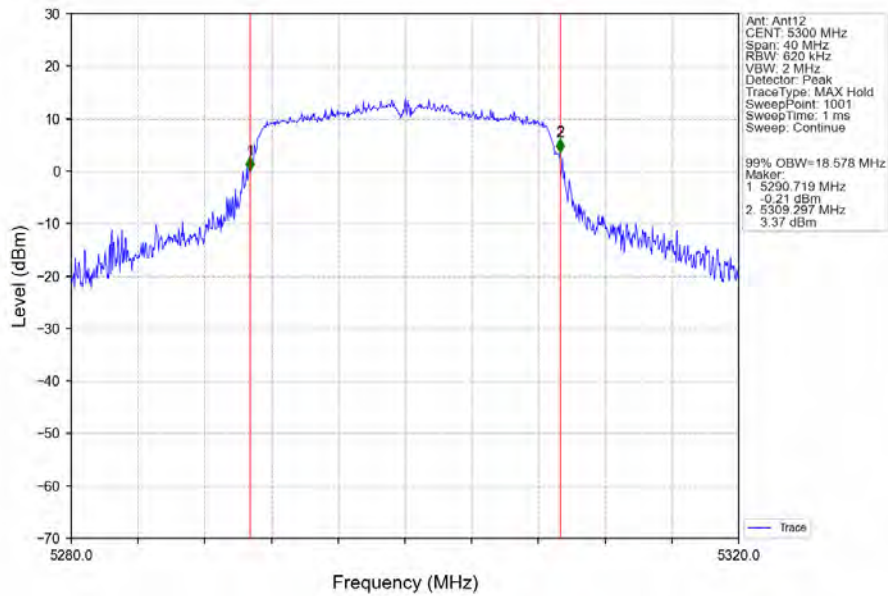
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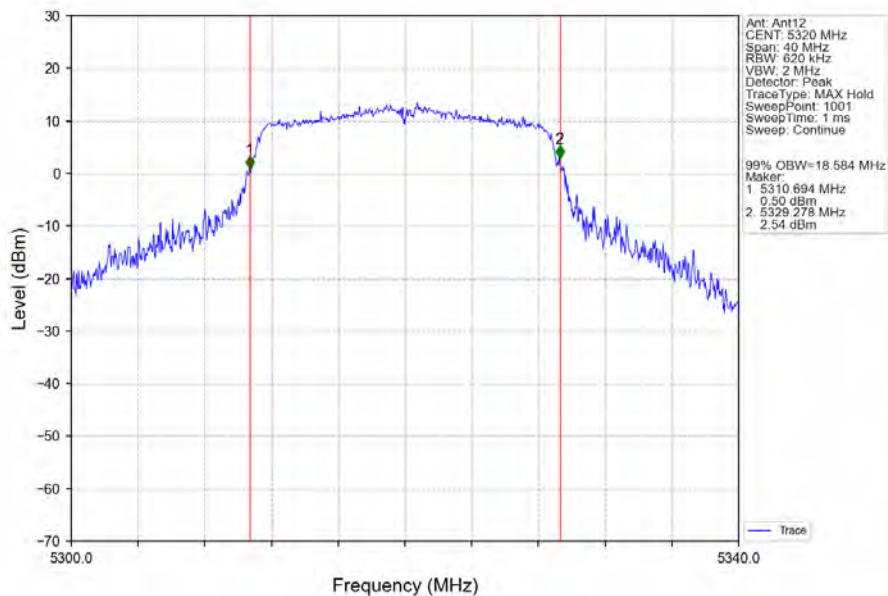
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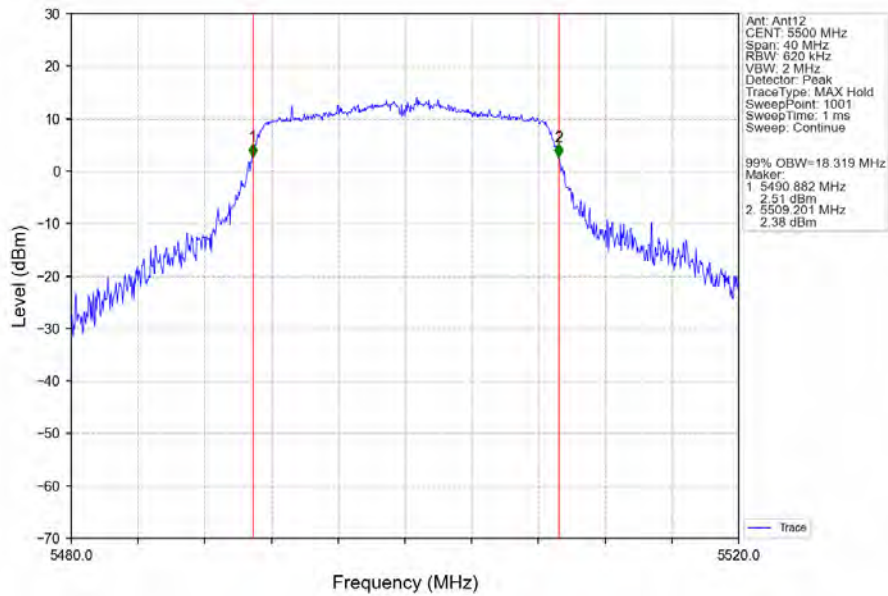
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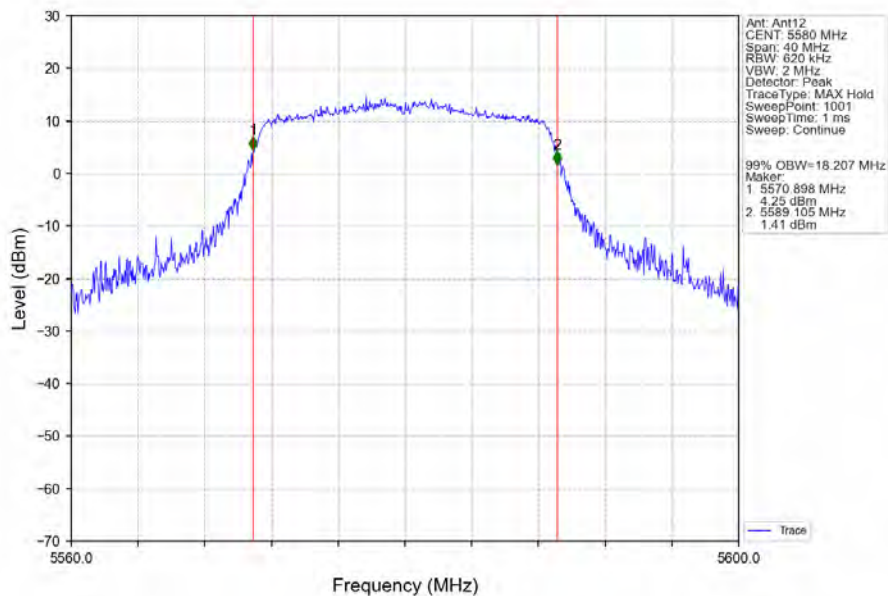
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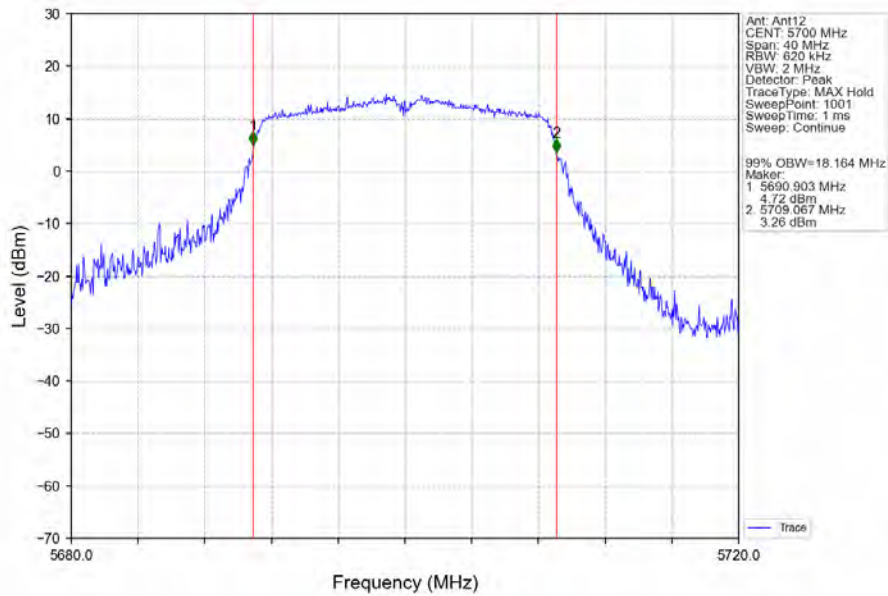
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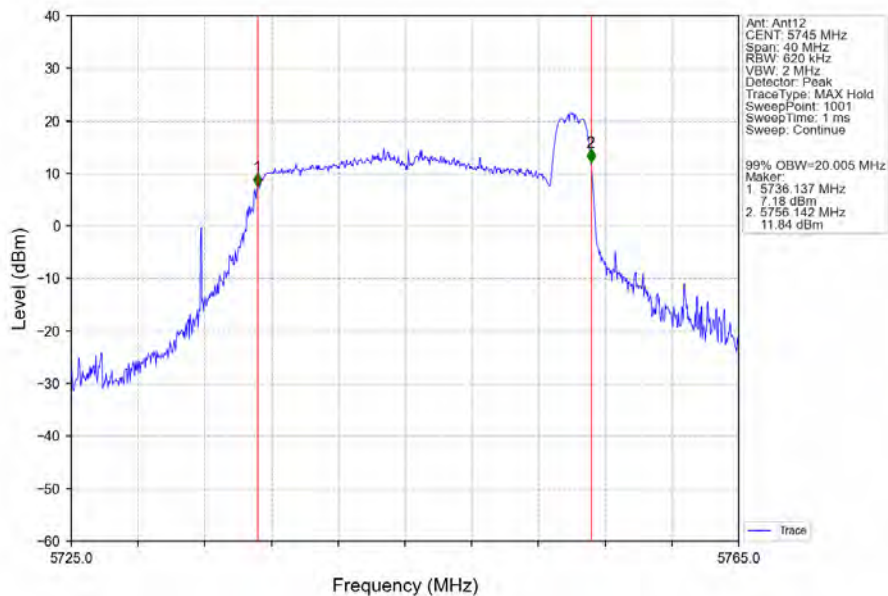
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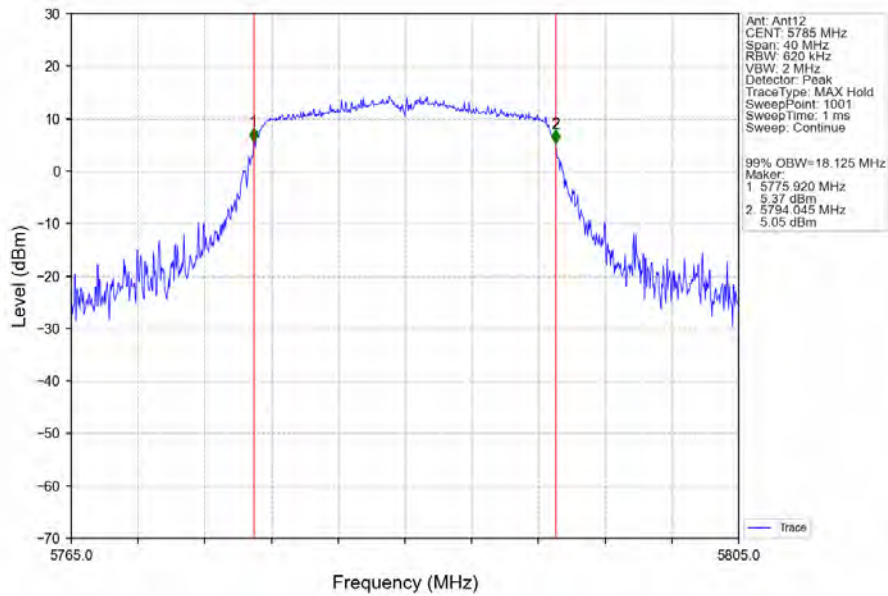
802.11ac(VHT20)_LCH_5745MHz_Ant12_NTNV



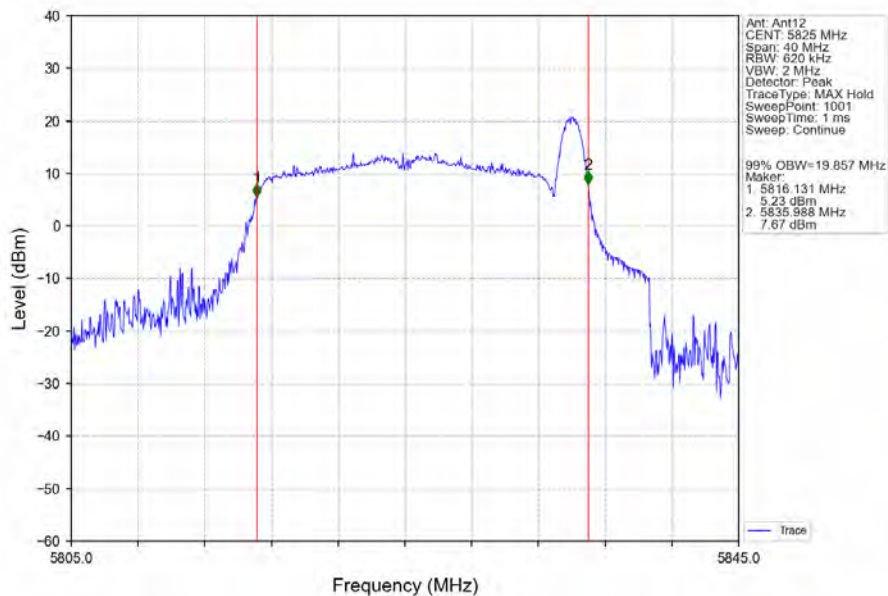
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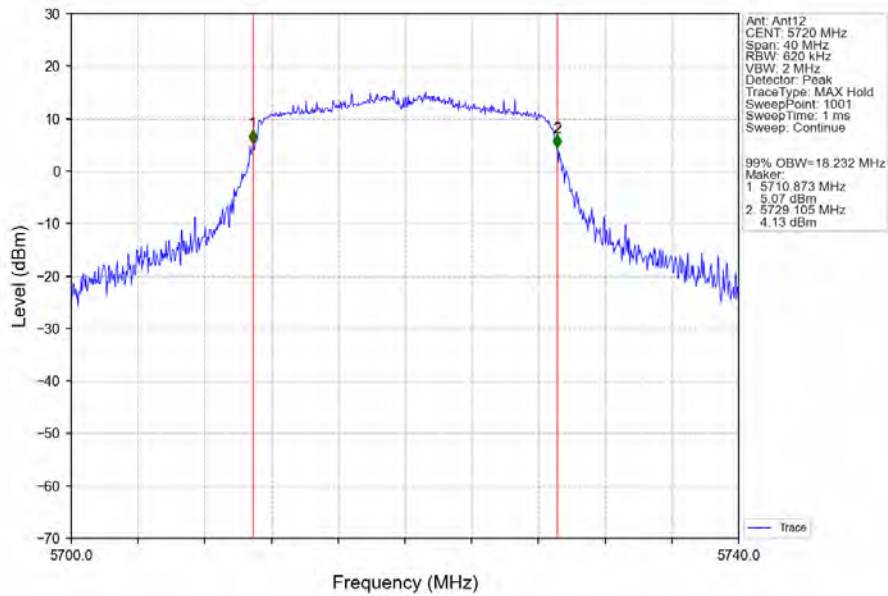
802.11ac(VHT20)_MCH_5785MHz_Ant12_NTNV



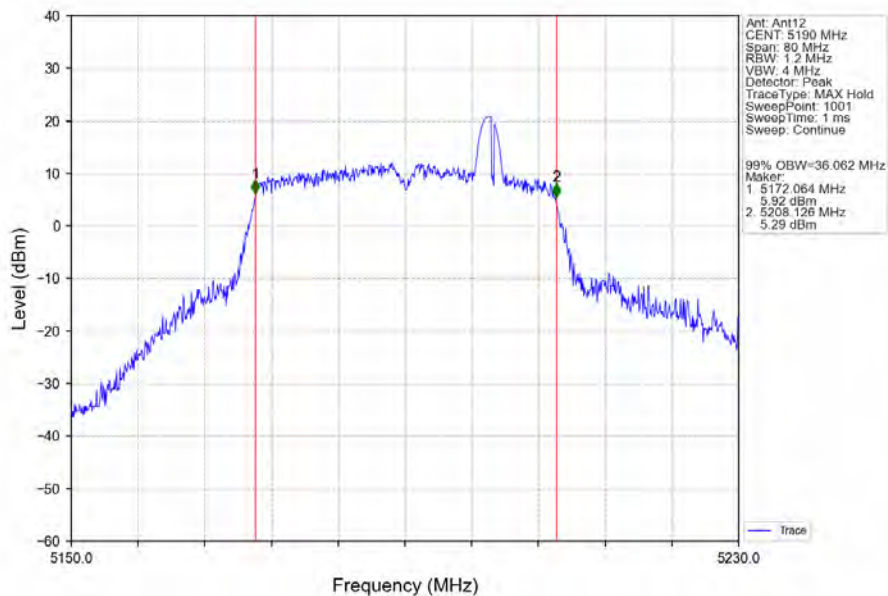
802.11ac(VHT20)_HCH_5825MHz_Ant12_NTNV



802.11ac(VHT20)_HCH_5720MHz_Ant12_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant12_NTNV



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