

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

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Pre-scan	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	14	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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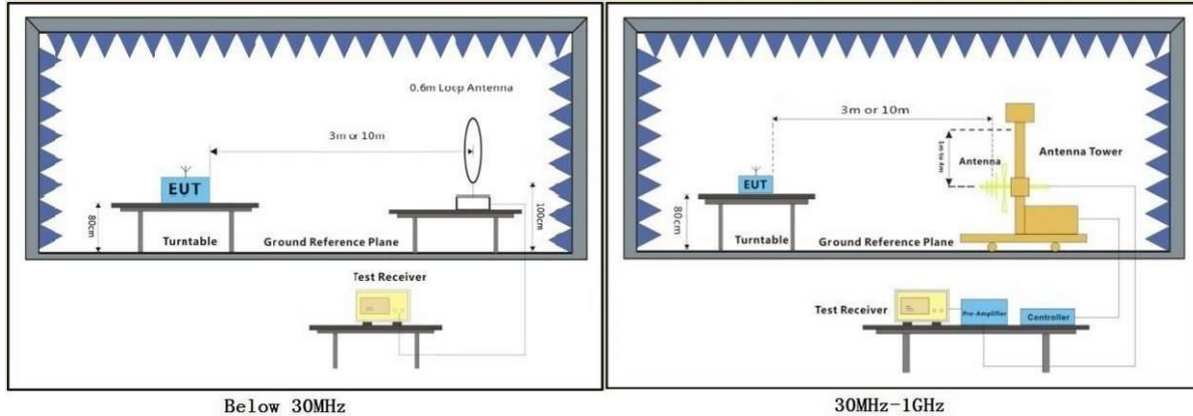
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	of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
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7.13.3 Test Setup Diagram



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7.13.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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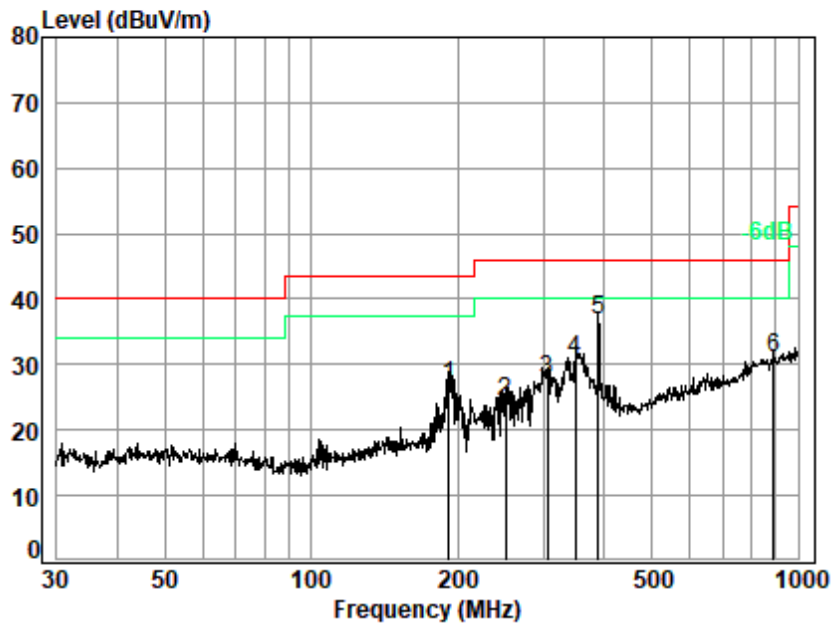
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Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00476AT
Mode : 16

	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	191.745	0.68	15.44	25.39	36.16	26.89	43.50	-16.61	QP
2	250.301	0.82	16.82	25.22	32.00	24.42	46.00	-21.58	QP
3	305.680	1.07	18.57	25.15	33.14	27.63	46.00	-18.37	QP
4	349.250	1.49	19.81	25.47	34.95	30.78	46.00	-15.22	QP
5	389.355	1.67	20.56	25.74	40.44	36.93	46.00	-9.07	QP
6	890.728	2.40	28.07	26.41	26.89	30.95	46.00	-15.05	QP



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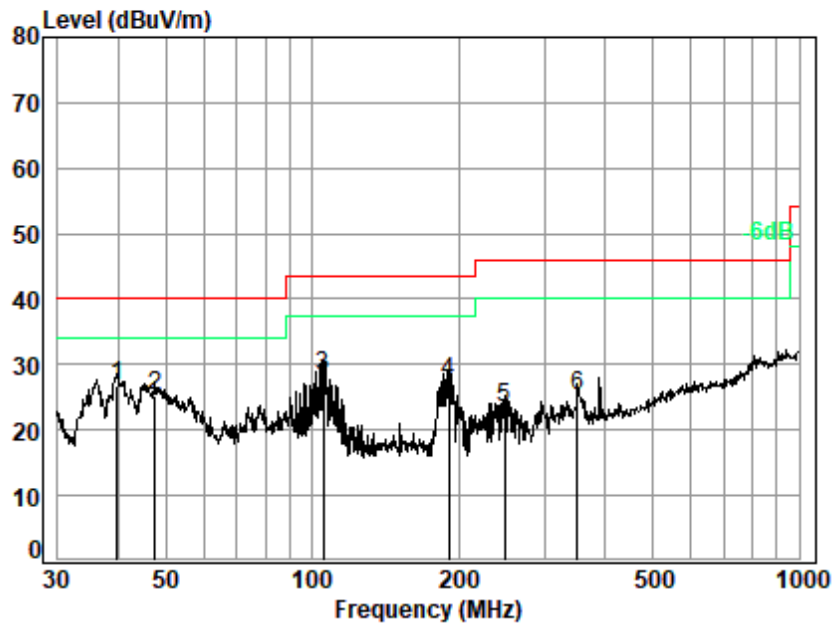
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Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00476AT
Mode : 16

	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	39.715	0.20	16.66	25.88	35.68	26.66	40.00	-13.34	QP
2	47.492	0.22	17.27	25.86	33.67	25.30	40.00	-14.70	QP
3	105.272	0.87	15.04	25.77	38.23	28.37	43.50	-15.13	QP
4	190.405	0.68	15.49	25.39	36.47	27.25	43.50	-16.25	QP
5	248.552	0.82	16.76	25.22	30.97	23.33	46.00	-22.67	QP
6	350.477	1.50	19.80	25.48	29.37	25.19	46.00	-20.81	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2211000476AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2211000476AT.



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.396	1.495	93.38	0.30	0.03
		5200	1.396	1.495	93.38	0.30	0.03
		5240	1.397	1.495	93.44	0.29	0.03
		5260	1.396	1.495	93.38	0.30	0.03
		5300	1.397	1.495	93.44	0.29	0.03
		5320	1.397	1.496	93.38	0.30	0.06
		5500	1.397	1.496	93.38	0.30	0.00
		5580	1.397	1.495	93.44	0.29	0.03
		5700	1.396	1.495	93.38	0.30	0.03
		5745	1.397	1.495	93.44	0.29	0.03
		5785	1.397	1.495	93.44	0.29	0.04
		5825	1.397	1.495	93.44	0.29	0.03
802.11n (HT20)	SISO	5180	1.309	1.407	93.03	0.31	0.03
		5200	1.308	1.407	92.96	0.32	0.03
		5240	1.308	1.407	92.96	0.32	0.03
		5260	1.309	1.407	93.03	0.31	0.03
		5300	1.308	1.407	92.96	0.32	0.03
		5320	1.308	1.407	92.96	0.32	0.00
		5500	1.309	1.407	93.03	0.31	0.03
		5580	1.309	1.407	93.03	0.31	0.00
		5700	1.308	1.407	92.96	0.32	0.03
		5745	1.309	1.407	93.03	0.31	0.00
		5785	1.309	1.407	93.03	0.31	0.03
		5825	1.309	1.407	93.03	0.31	0.03
802.11n (HT40)	SISO	5190	0.649	0.747	86.88	0.61	0.04
		5230	0.649	0.747	86.88	0.61	0.04
		5270	0.649	0.747	86.88	0.61	0.04



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		5310	0.649	0.747	86.88	0.61	0.04
		5510	0.648	0.746	86.86	0.61	0.04
		5550	0.649	0.747	86.88	0.61	0.07
		5670	0.649	0.747	86.88	0.61	0.04
		5755	0.649	0.747	86.88	0.61	0.04
		5795	0.649	0.747	86.88	0.61	0.04
802.11ac (VHT20)	SISO	5180	1.316	1.414	93.07	0.31	0.03
		5200	1.317	1.416	93.01	0.31	0.03
		5240	1.317	1.415	93.07	0.31	0.00
		5260	1.317	1.415	93.07	0.31	0.00
		5300	1.316	1.415	93.00	0.32	0.06
		5320	1.316	1.415	93.00	0.32	0.00
		5500	1.317	1.415	93.07	0.31	0.03
		5580	1.316	1.415	93.00	0.32	0.03
		5700	1.317	1.415	93.07	0.31	0.03
		5745	1.317	1.415	93.07	0.31	0.03
		5785	1.317	1.415	93.07	0.31	0.03
		5825	1.316	1.415	93.00	0.32	0.03
802.11ac (VHT40)	SISO	5190	0.657	0.756	86.90	0.61	0.04
		5230	0.657	0.755	87.02	0.60	0.04
		5270	0.657	0.756	86.90	0.61	0.04
		5310	0.657	0.755	87.02	0.60	0.04
		5510	0.657	0.755	87.02	0.60	0.07
		5550	0.656	0.755	86.89	0.61	0.07
		5670	0.657	0.755	87.02	0.60	0.04
		5755	0.656	0.755	86.89	0.61	0.03
		5795	0.657	0.756	86.90	0.61	0.04
802.11ac (VHT80)	SISO	5210	0.325	0.422	77.01	1.13	0.02
		5290	0.325	0.422	77.01	1.13	0.03
		5530	0.325	0.422	77.01	1.13	0.06
		5610	0.324	0.422	76.78	1.15	0.06
		5775	0.324	0.422	76.78	1.15	0.06



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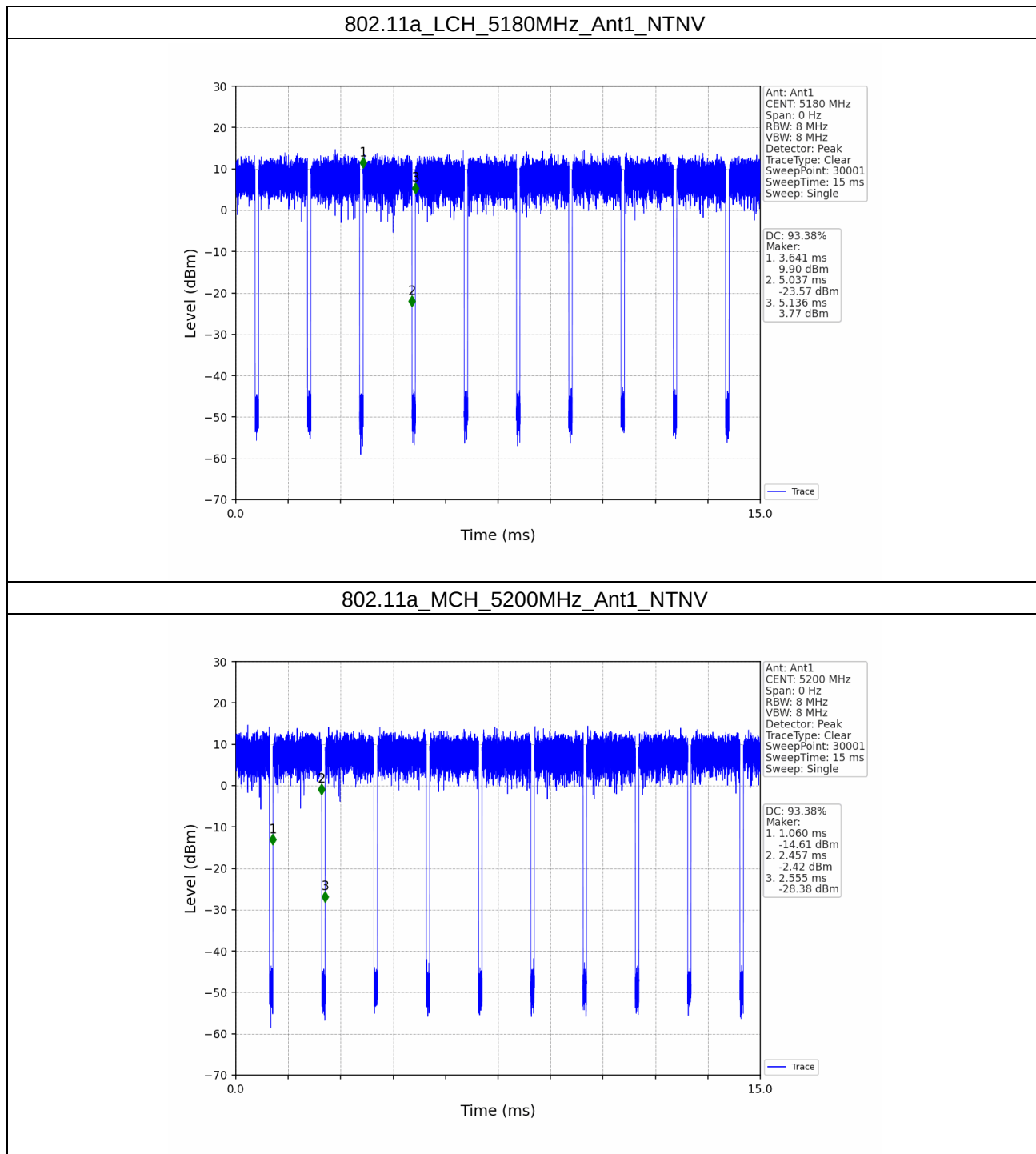
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1.1.2 Test Graph



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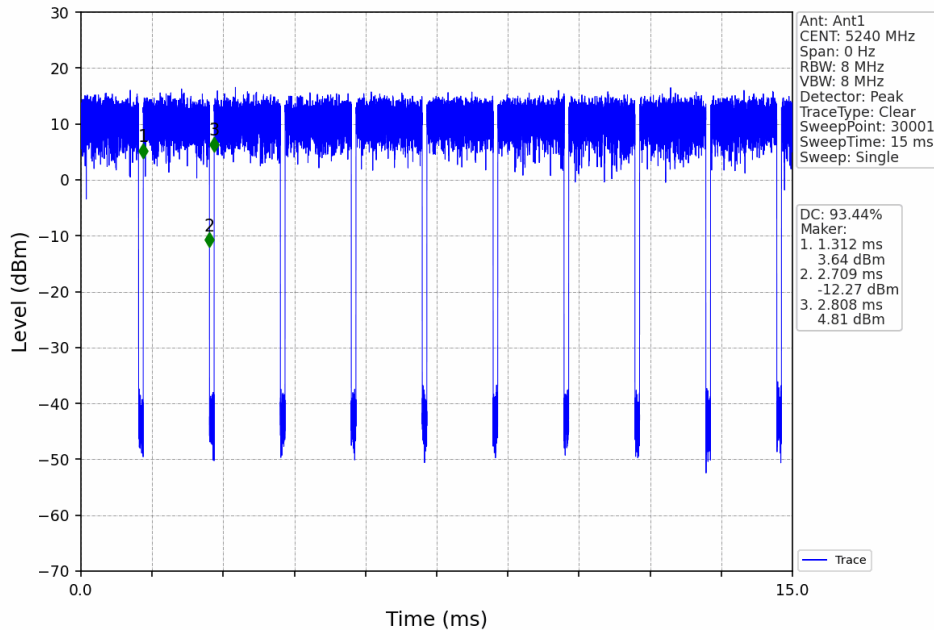
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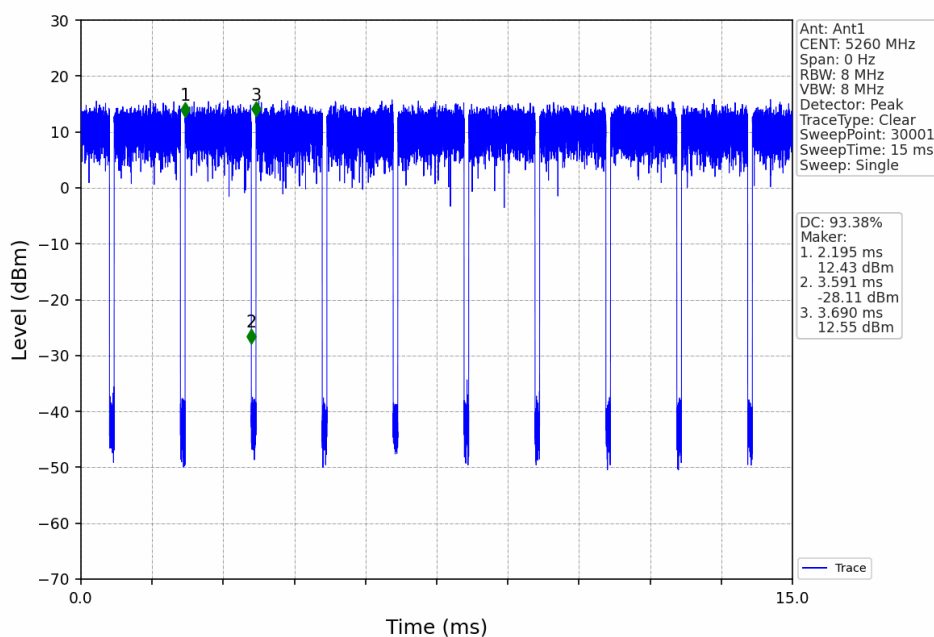
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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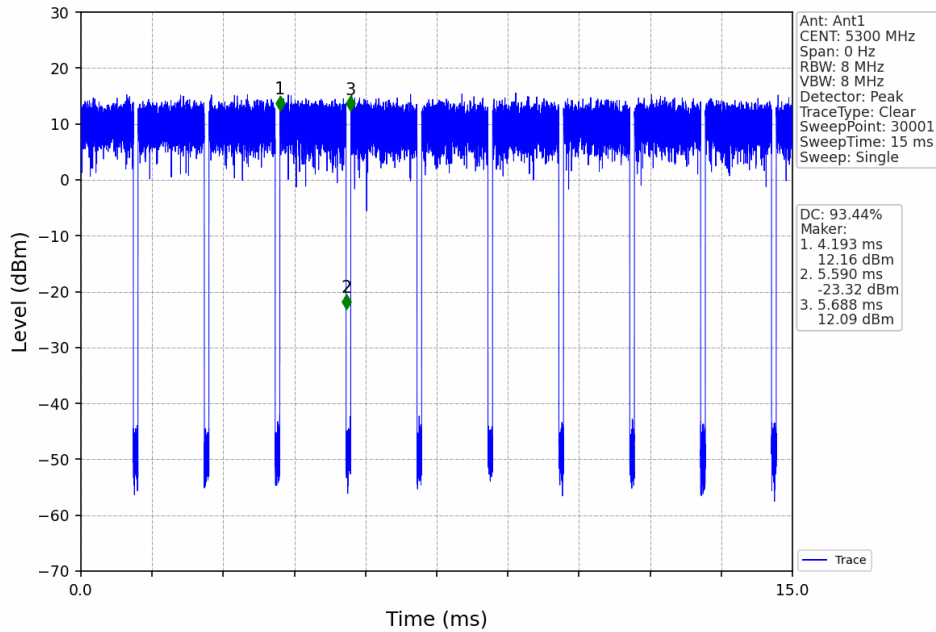
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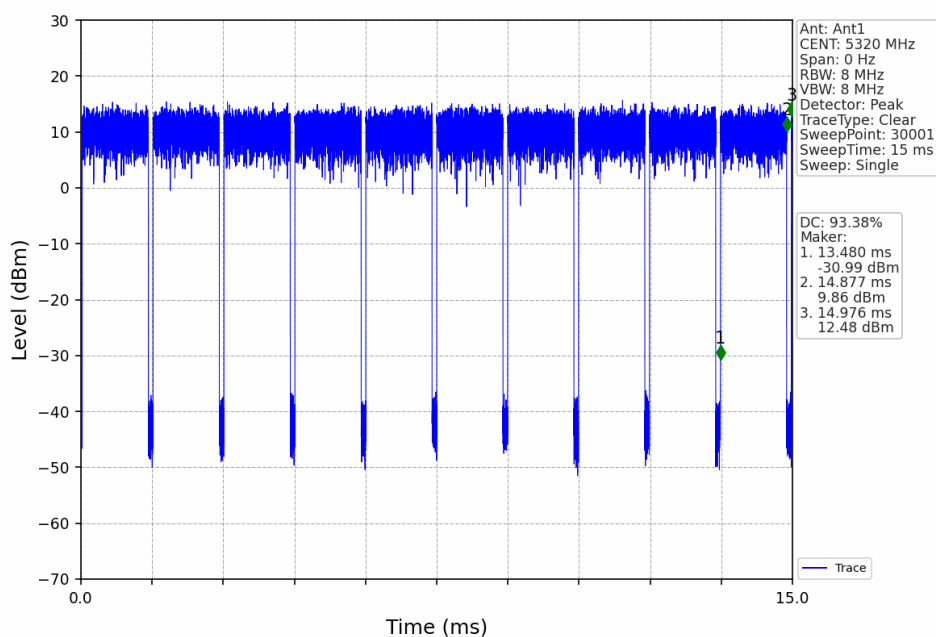
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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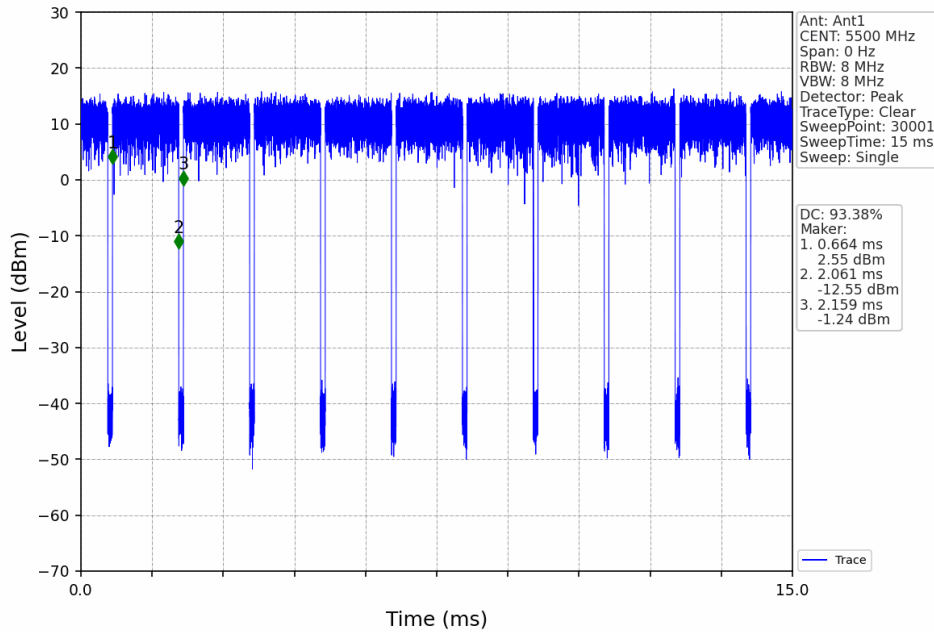
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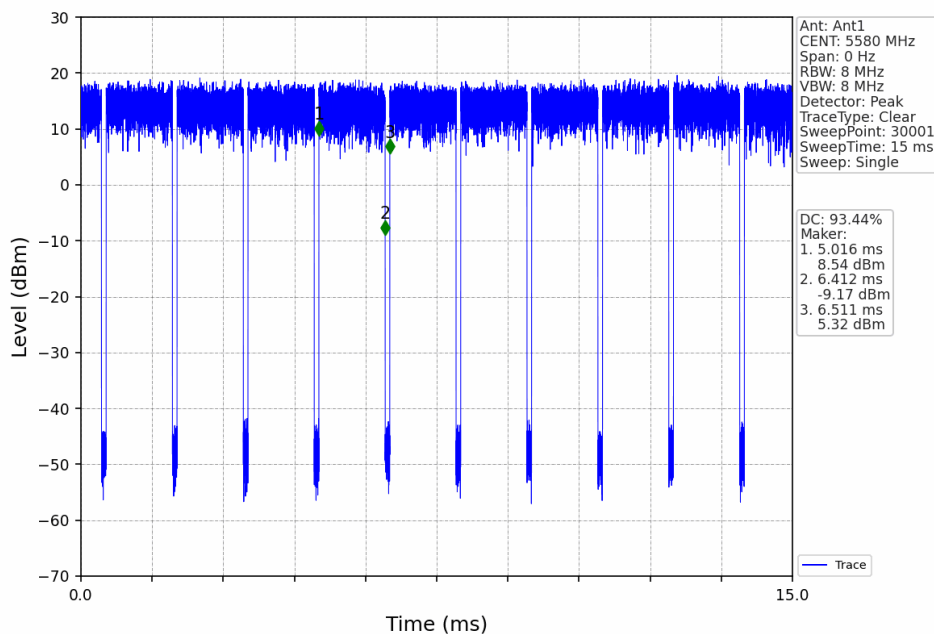
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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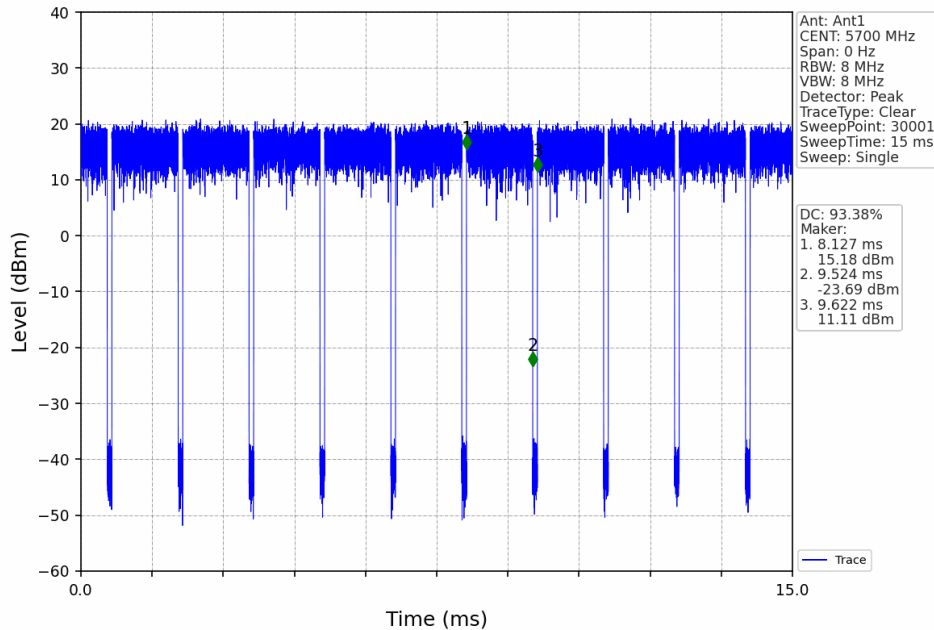
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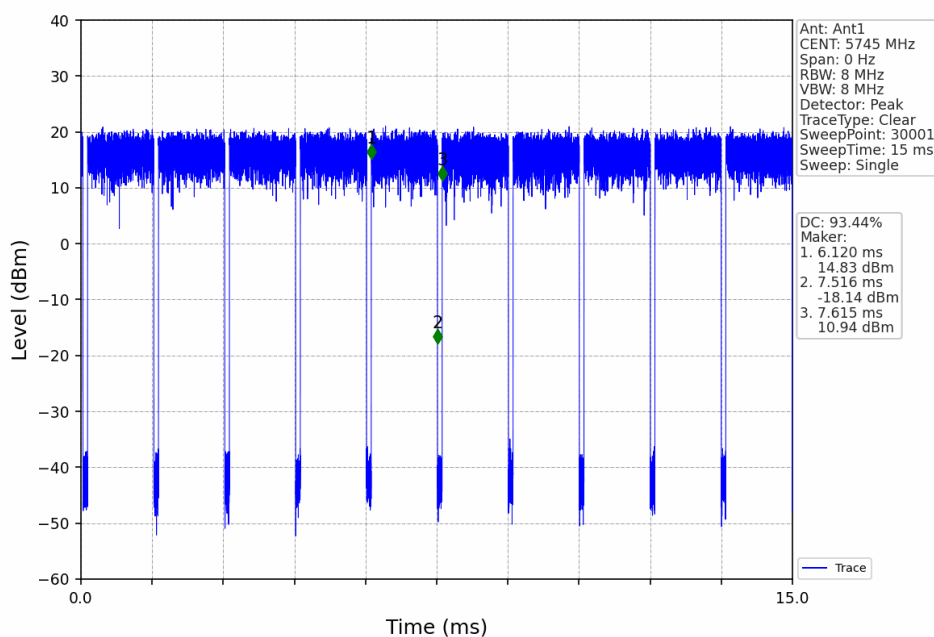
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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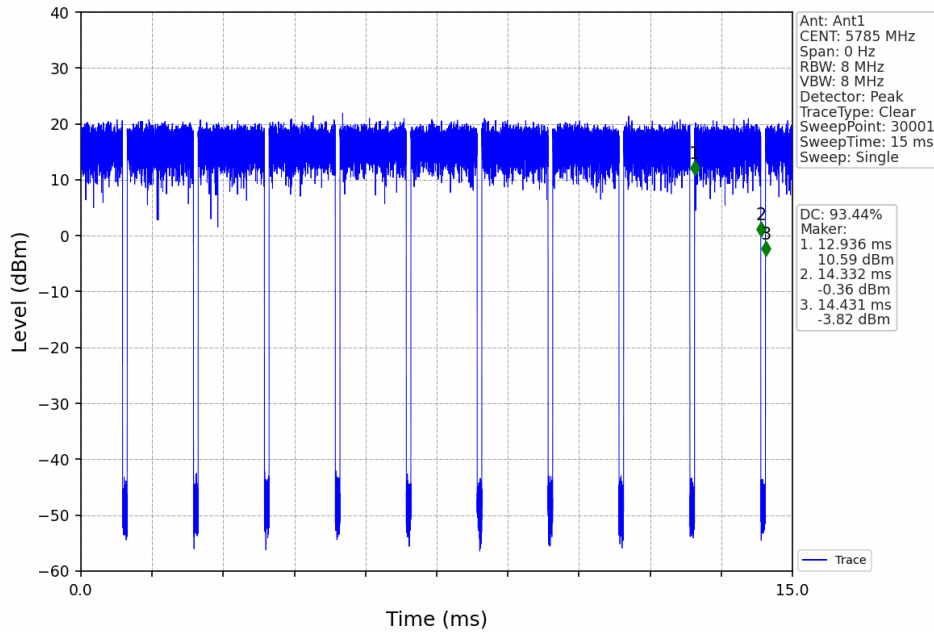
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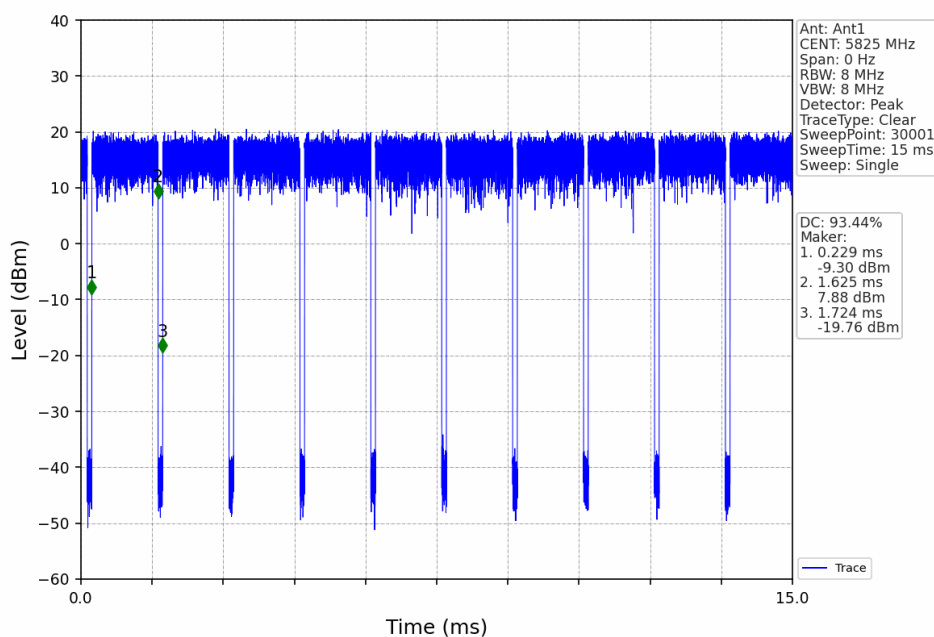
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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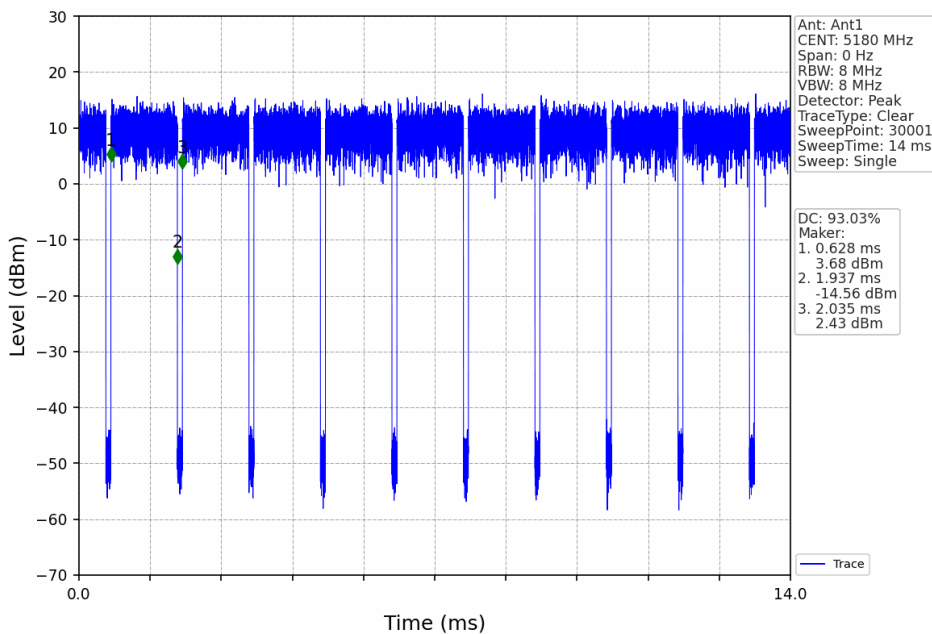
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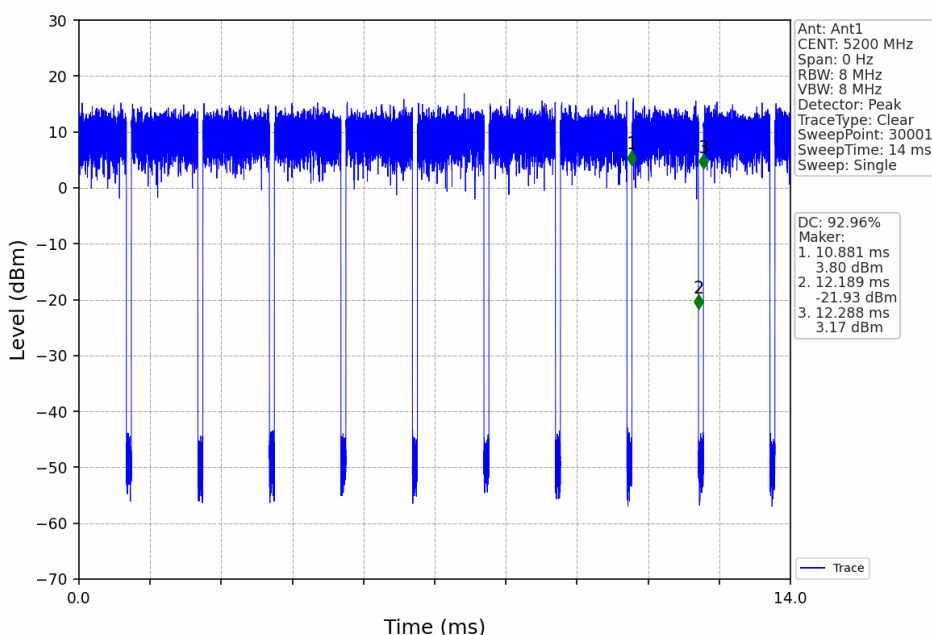
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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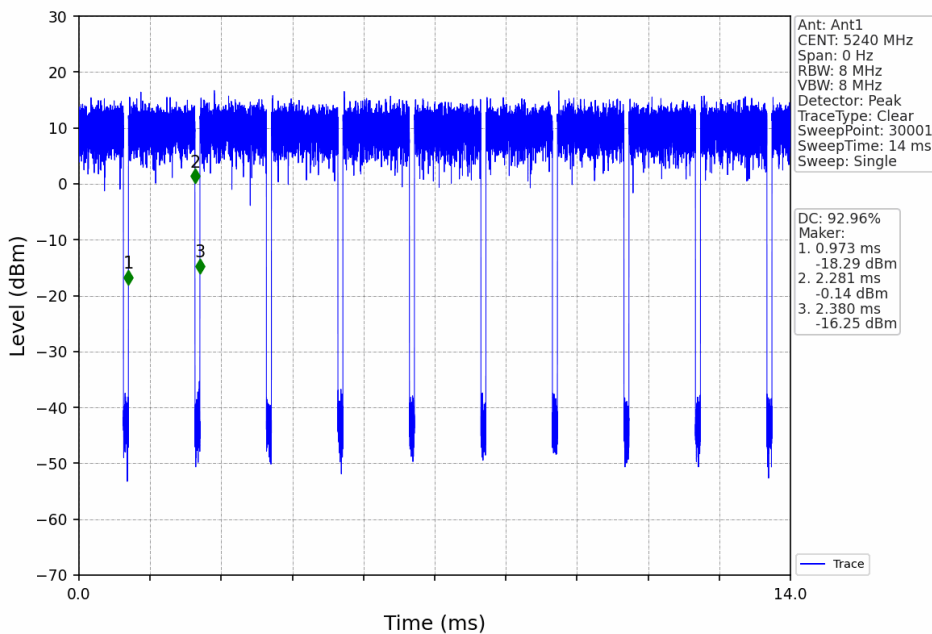
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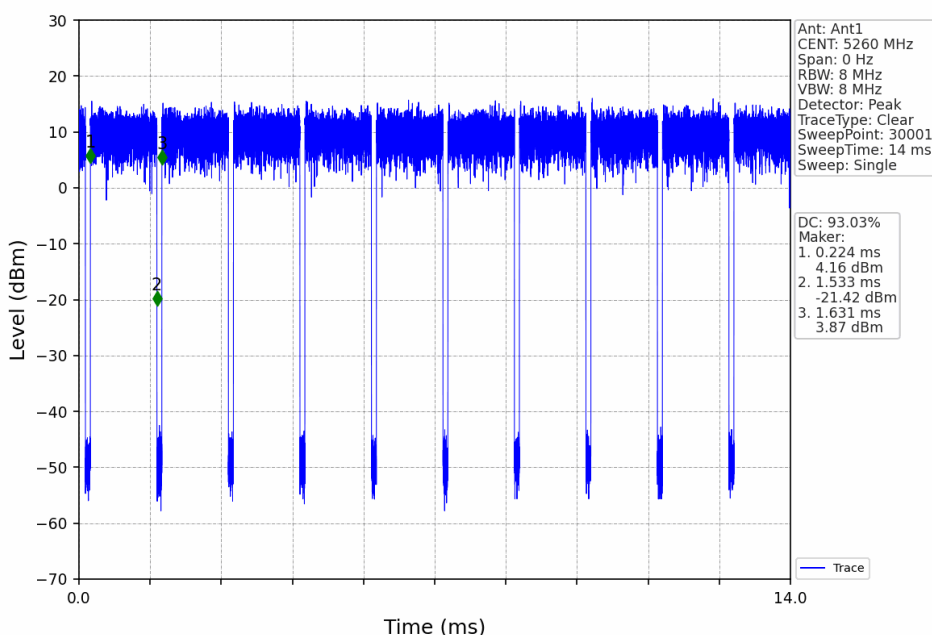
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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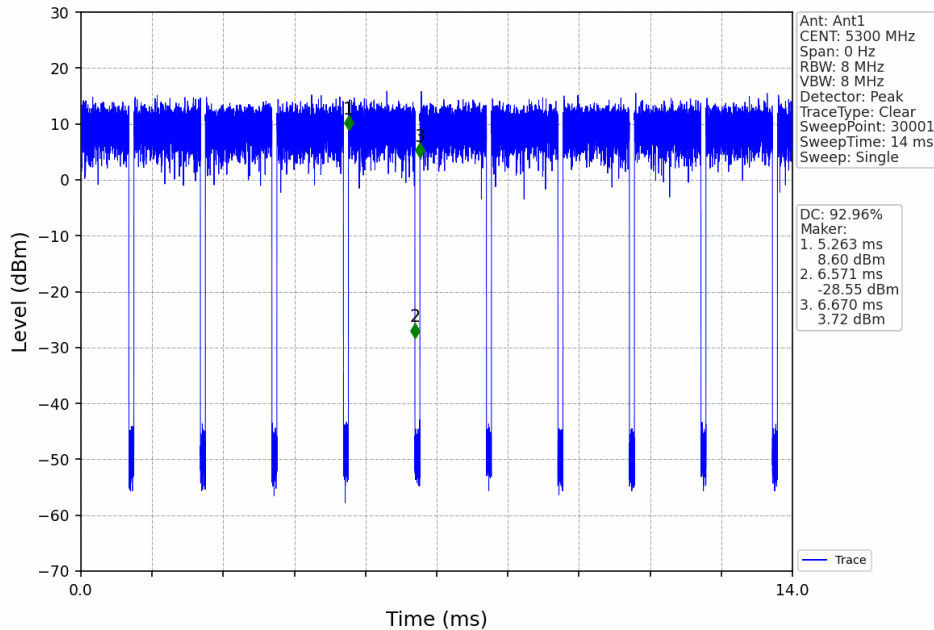
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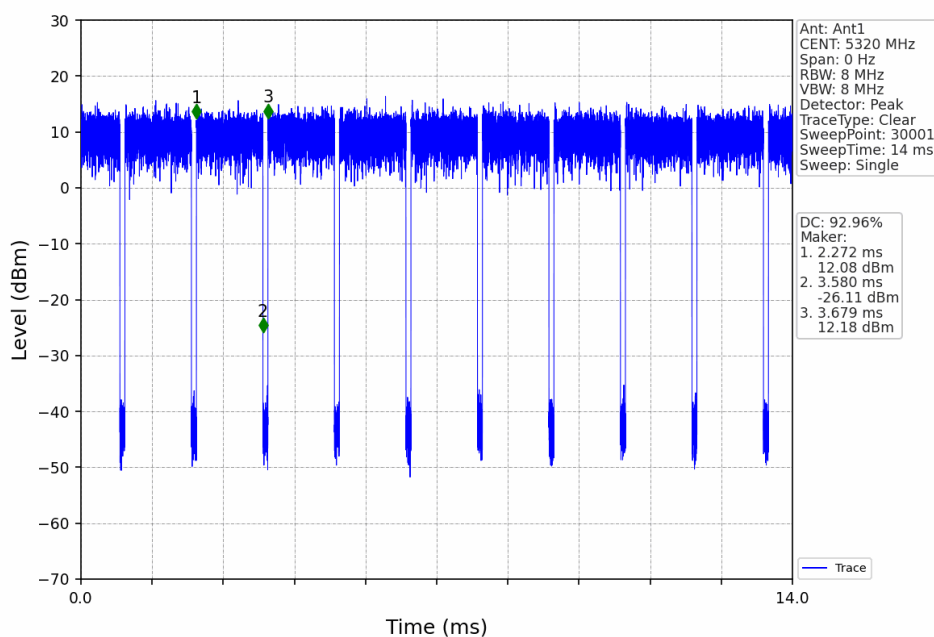
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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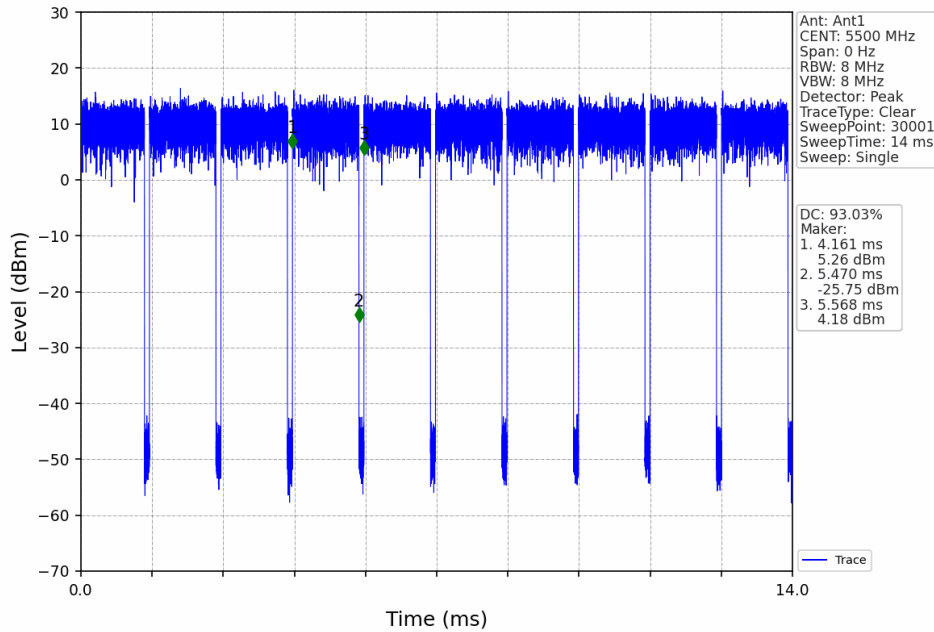
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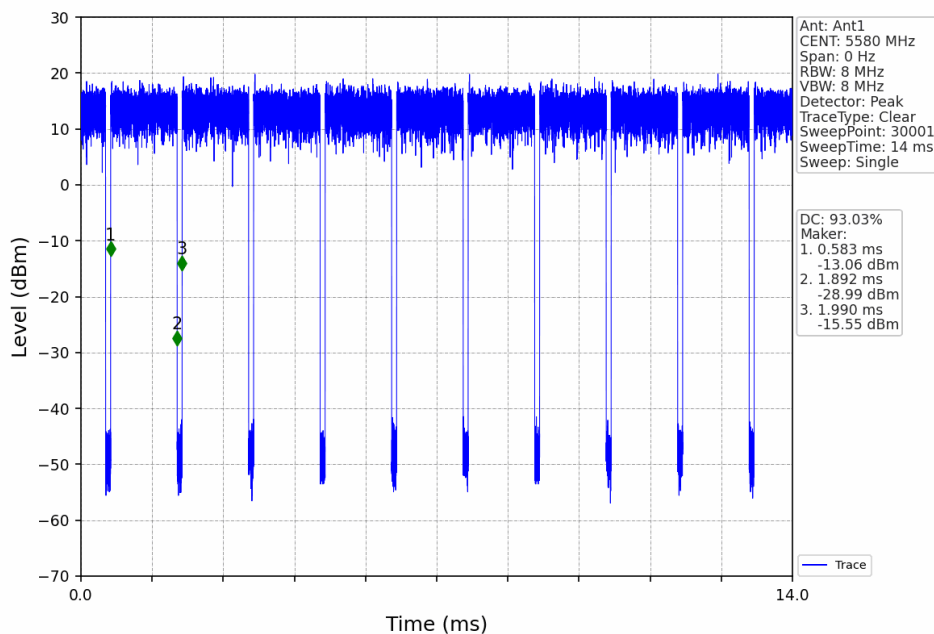
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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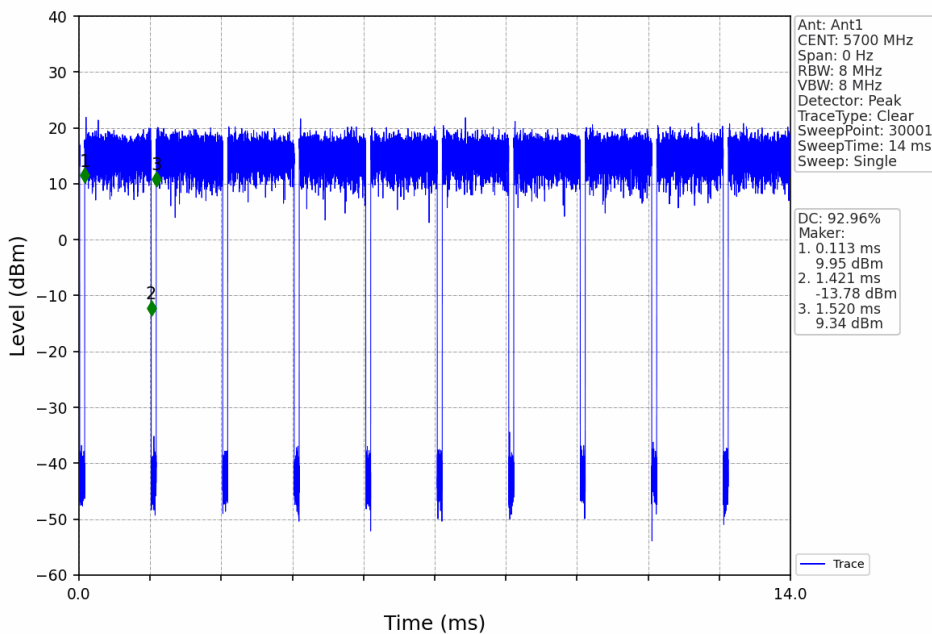
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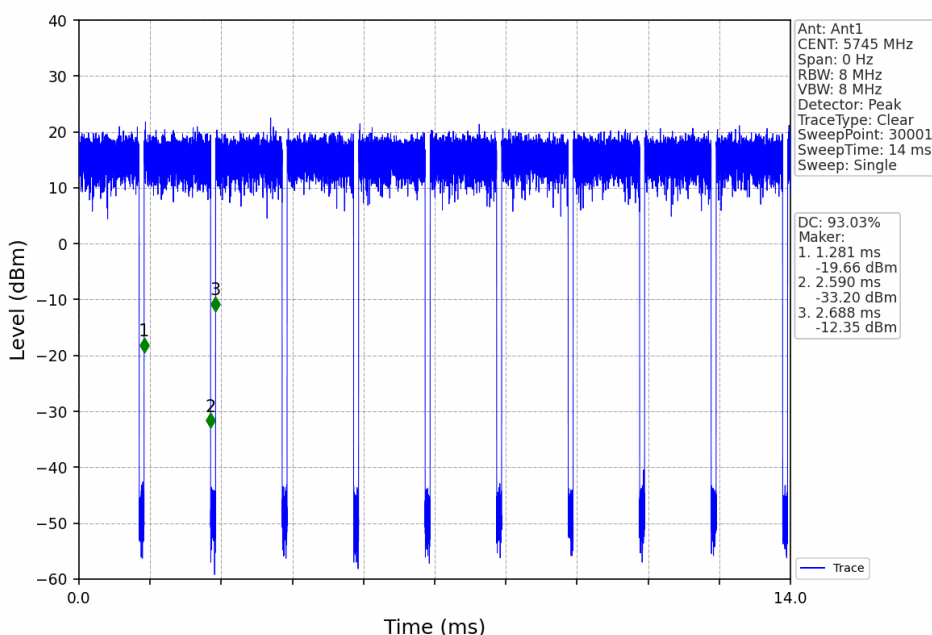
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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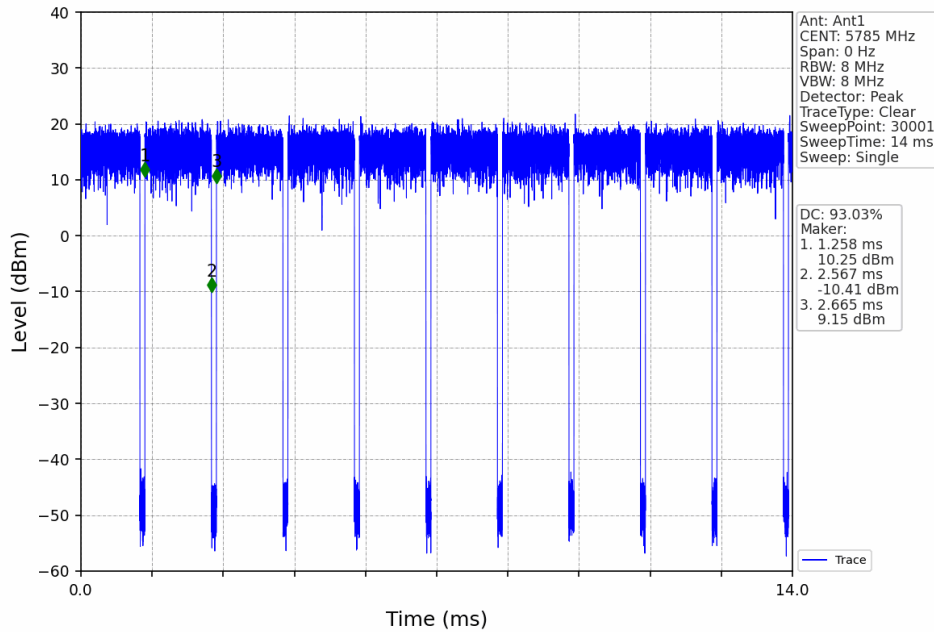
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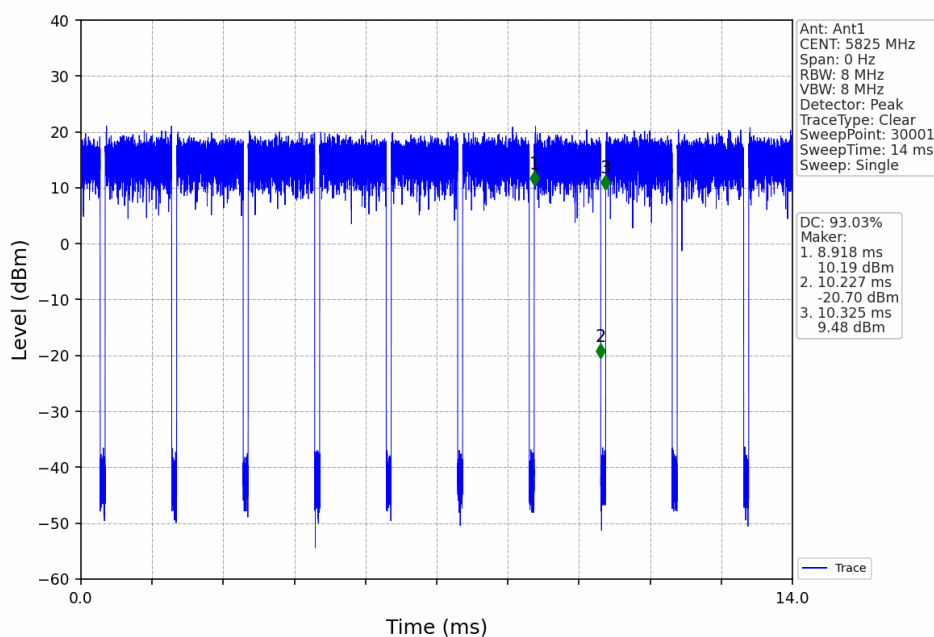
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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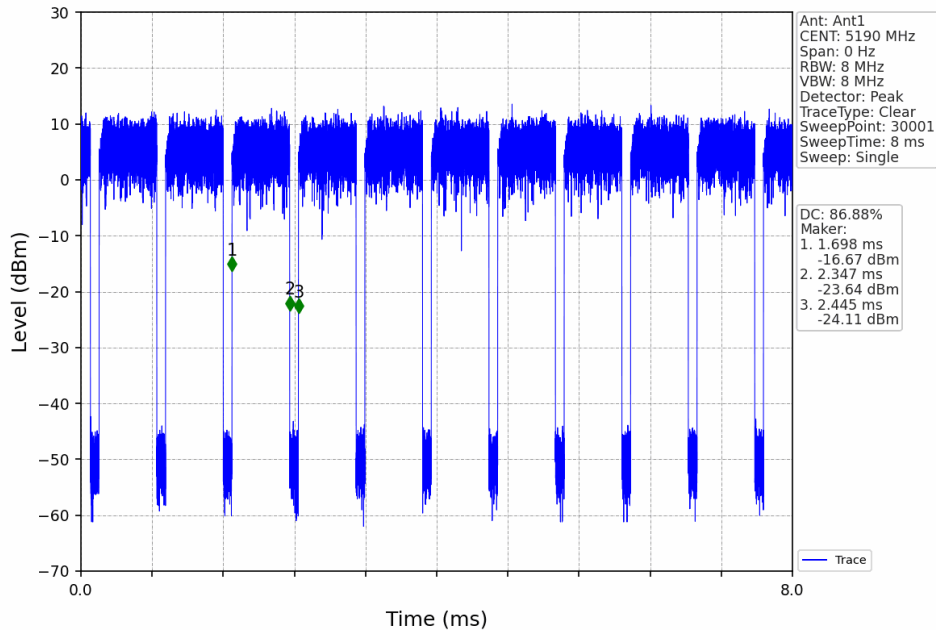
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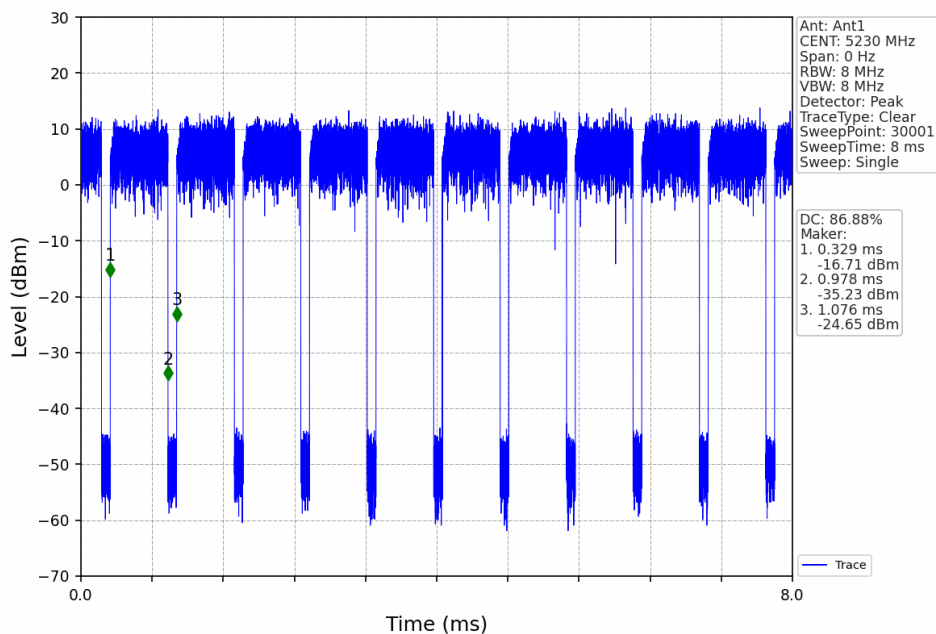
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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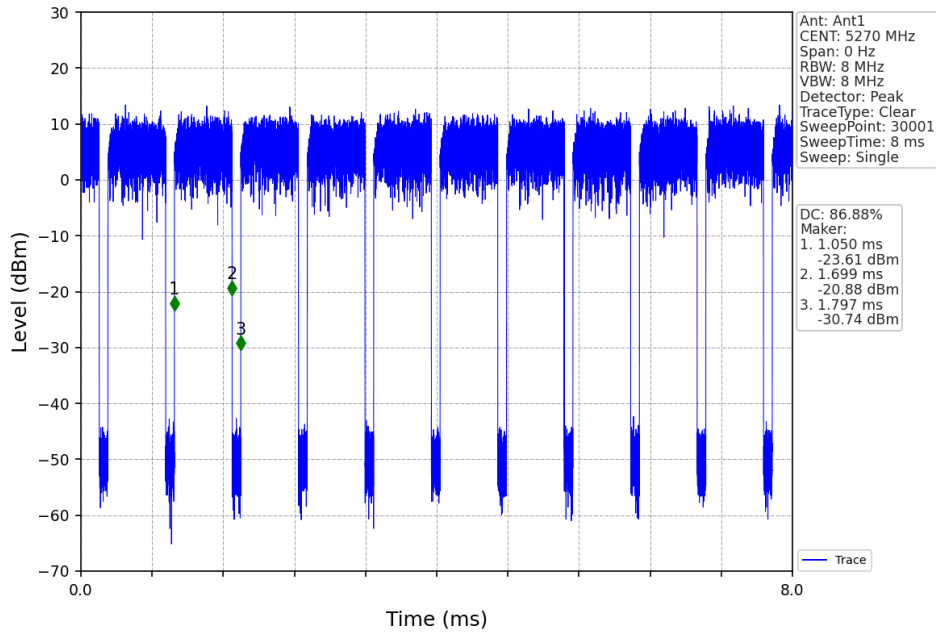
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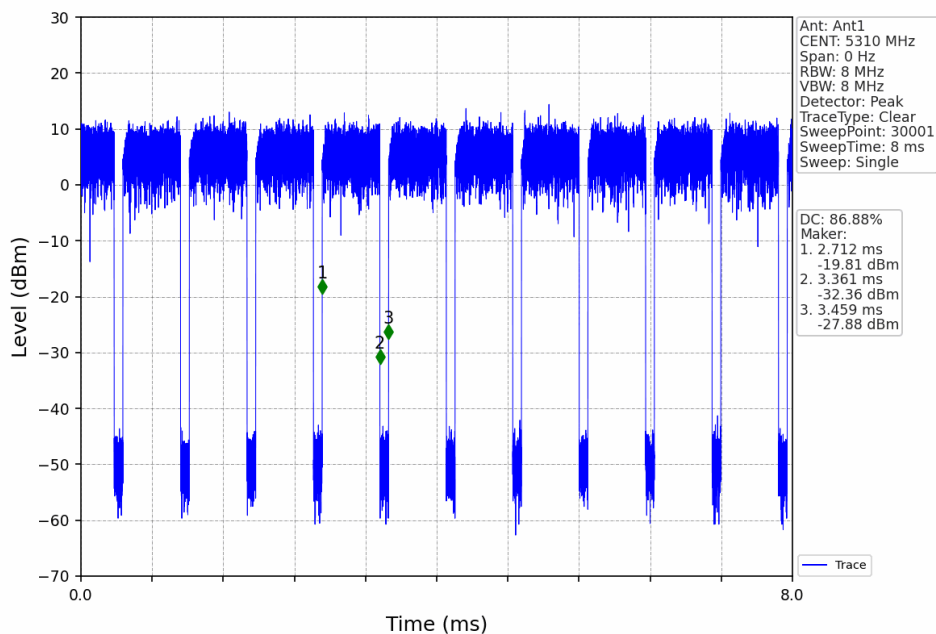
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



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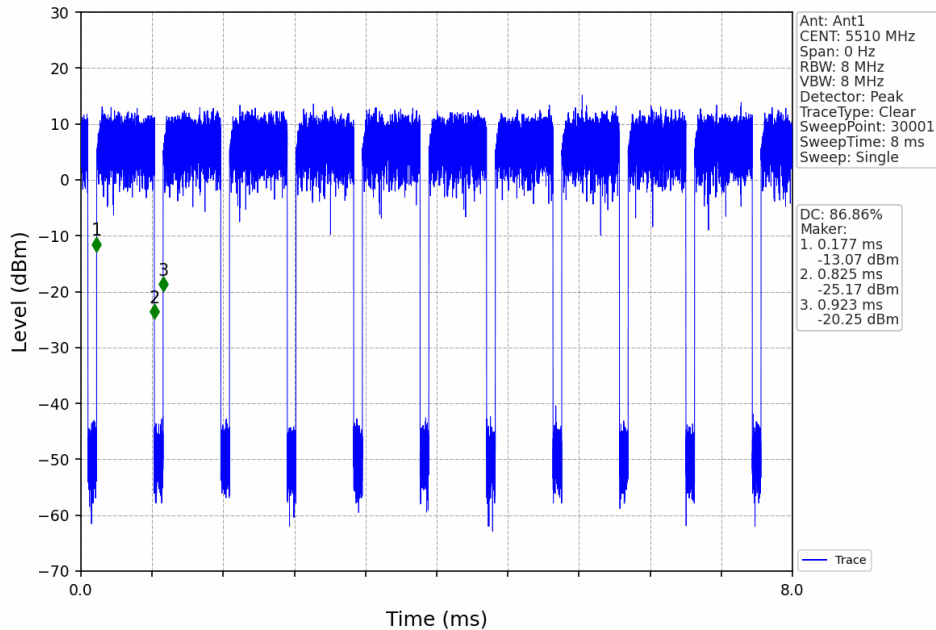
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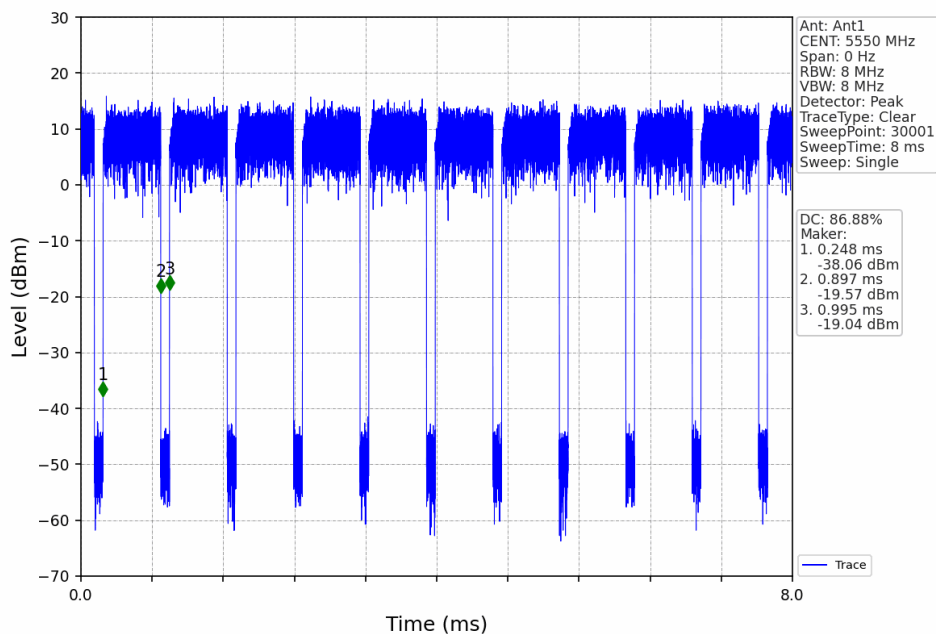
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



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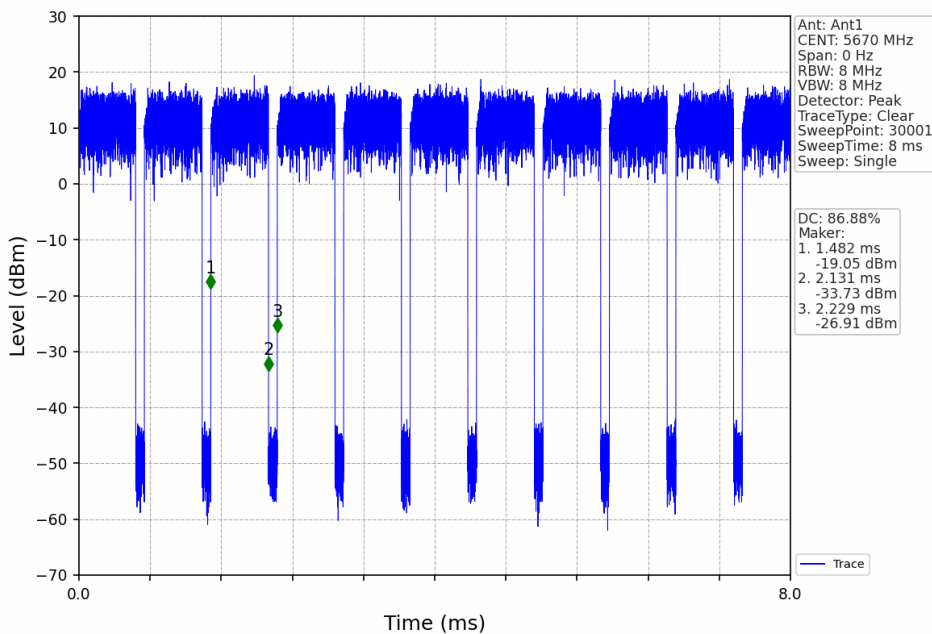
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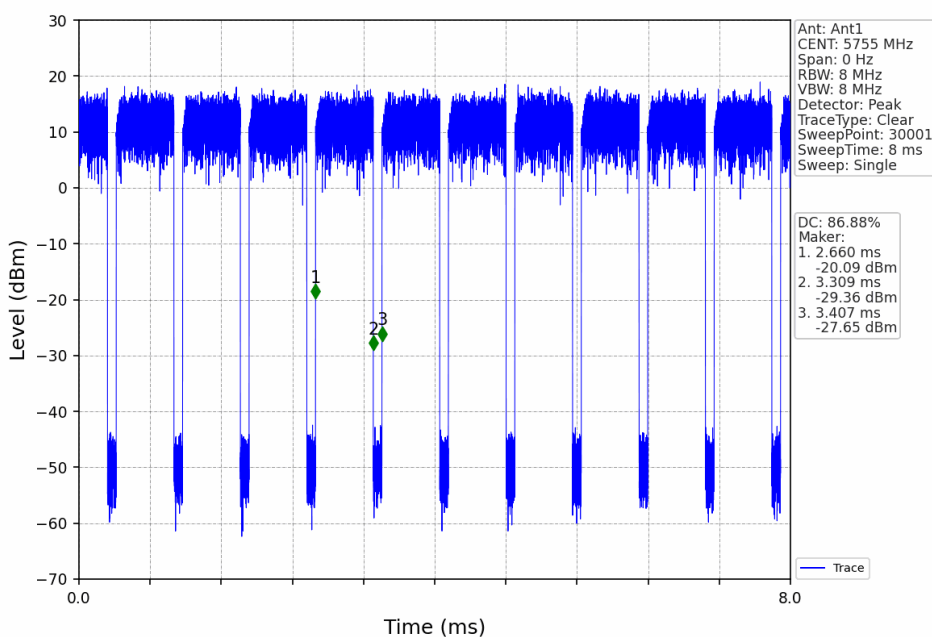
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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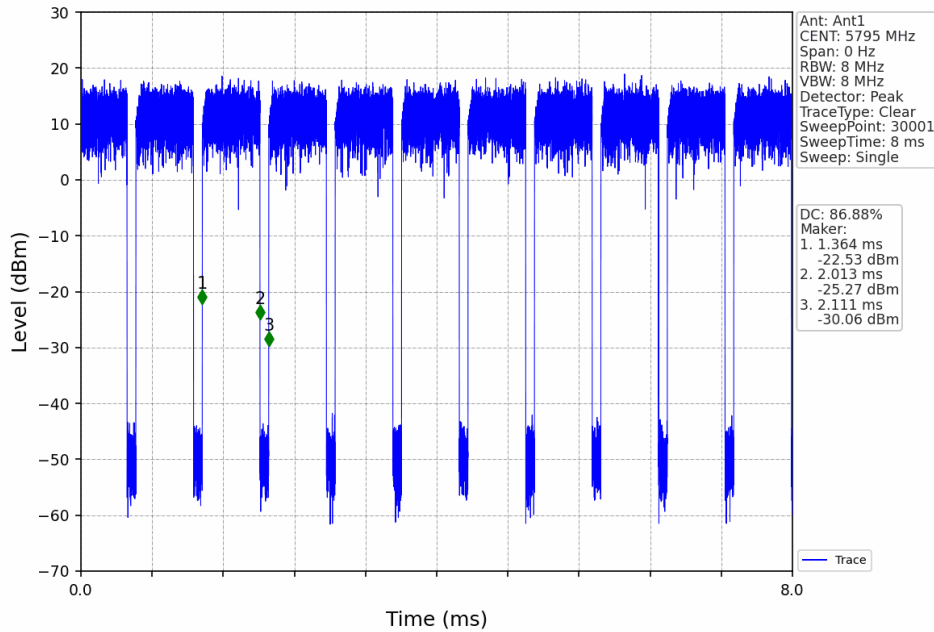
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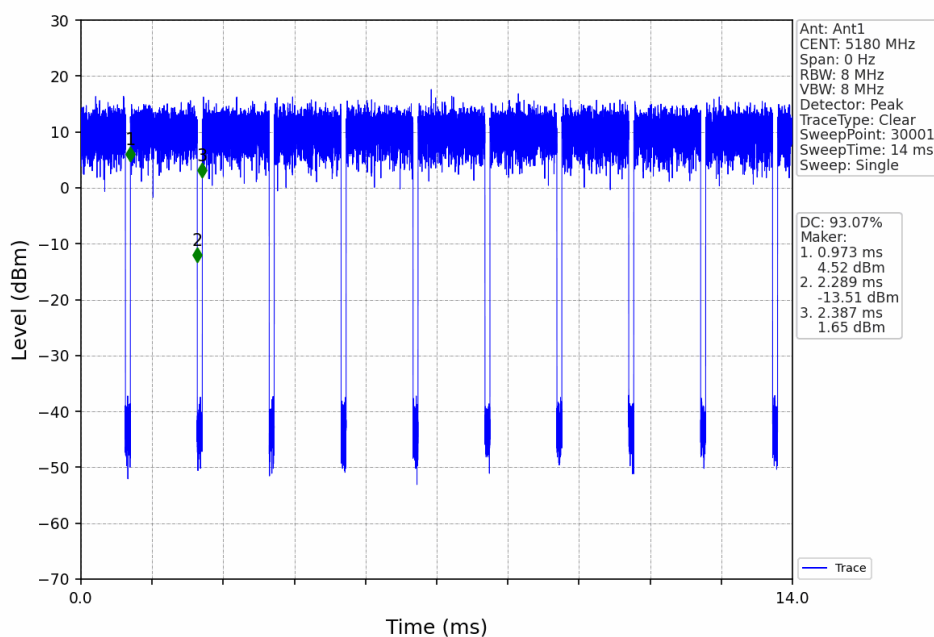
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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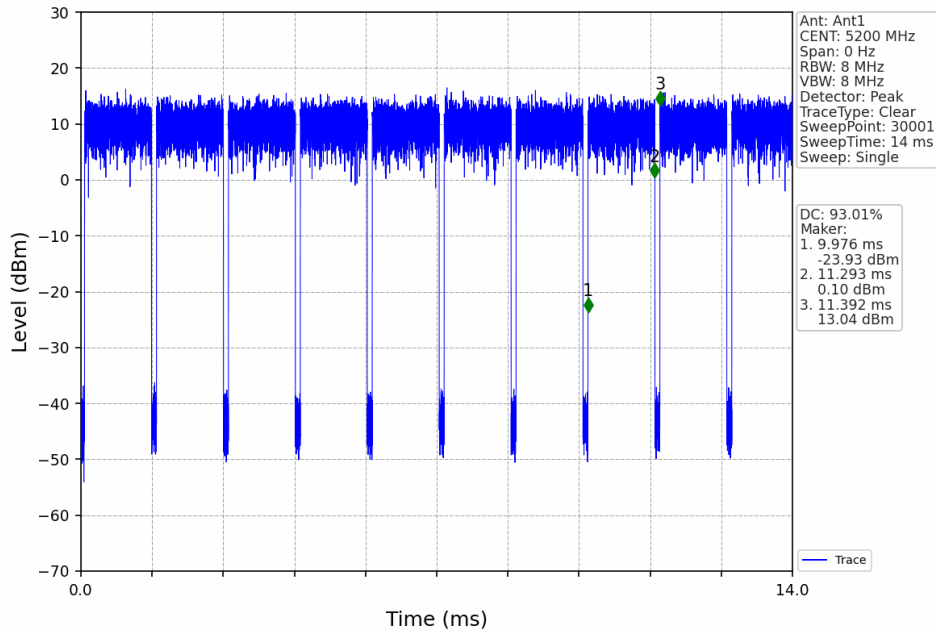
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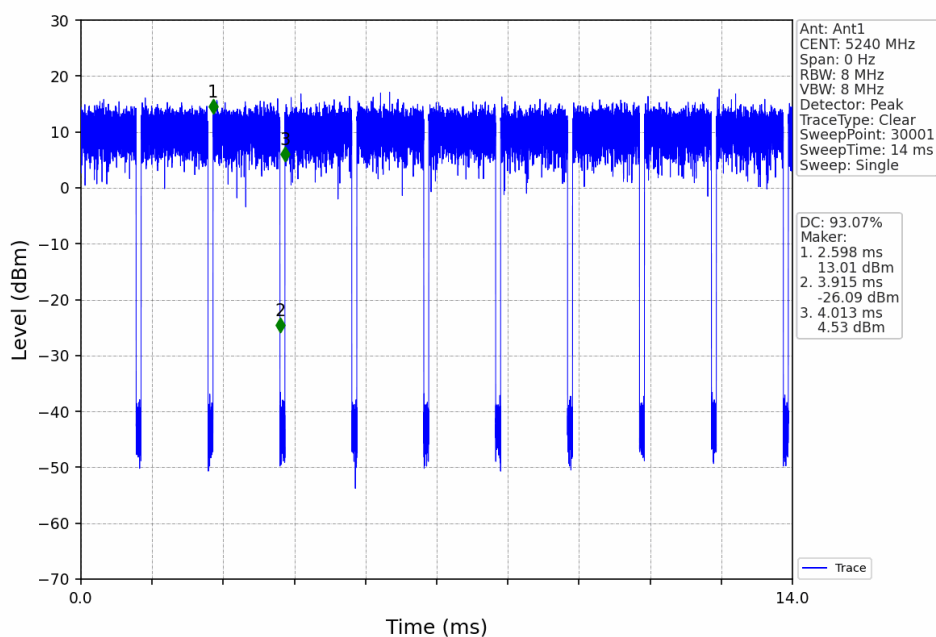
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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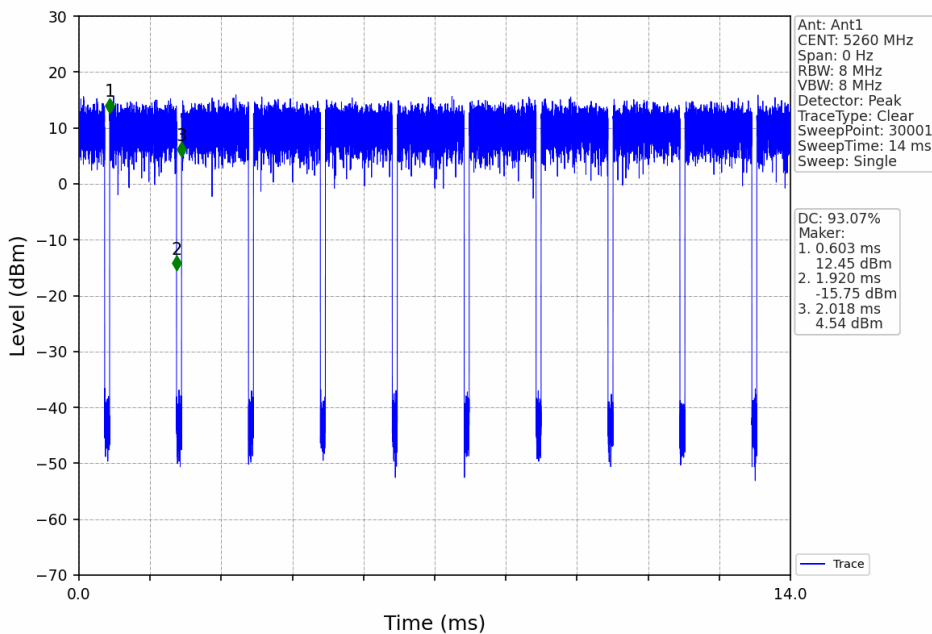
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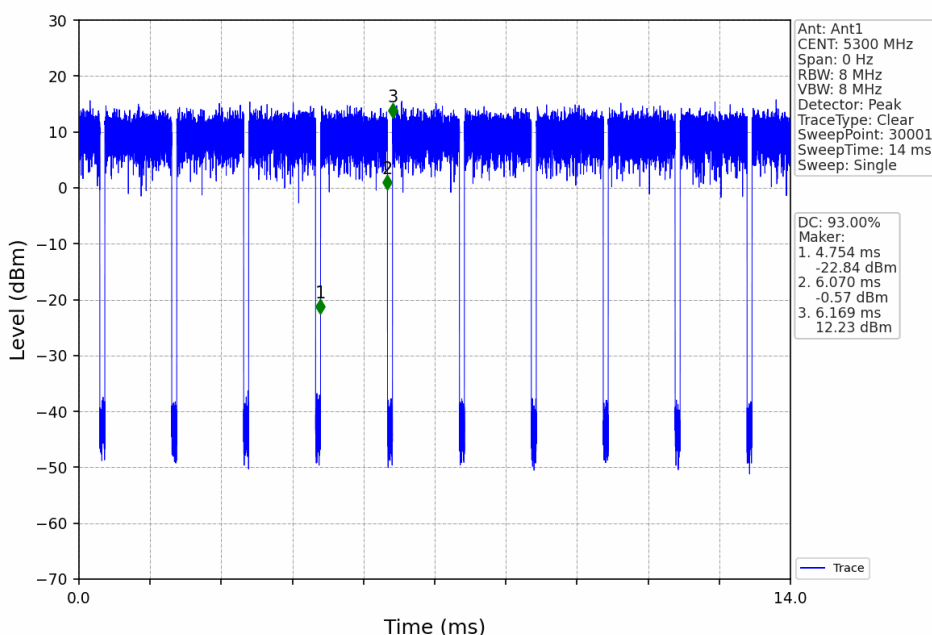
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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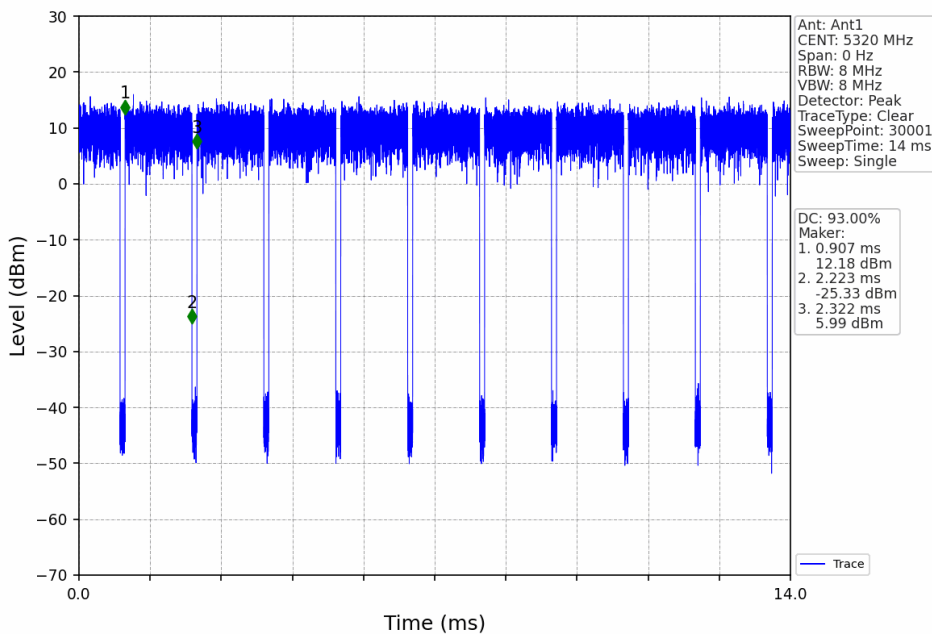
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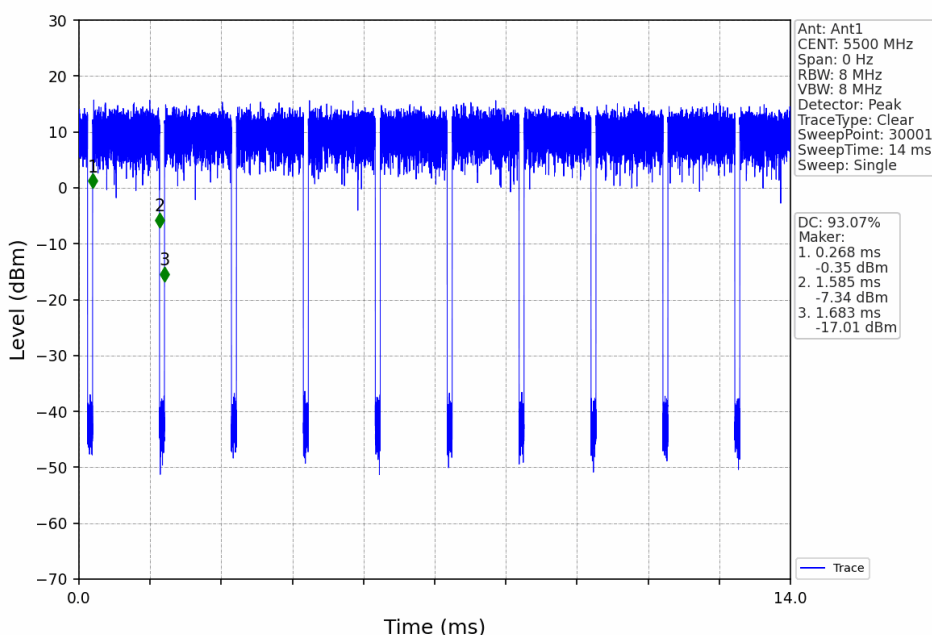
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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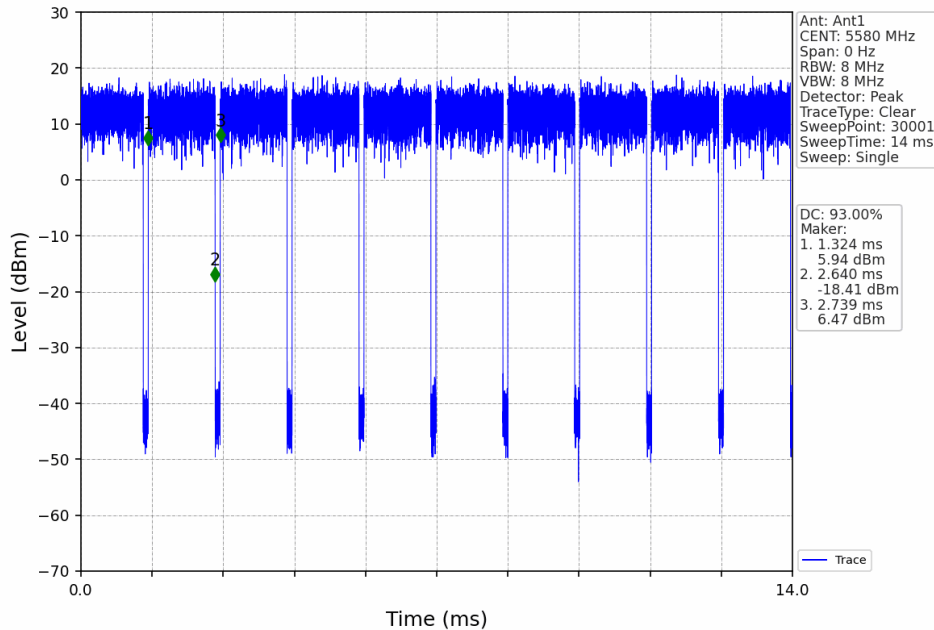
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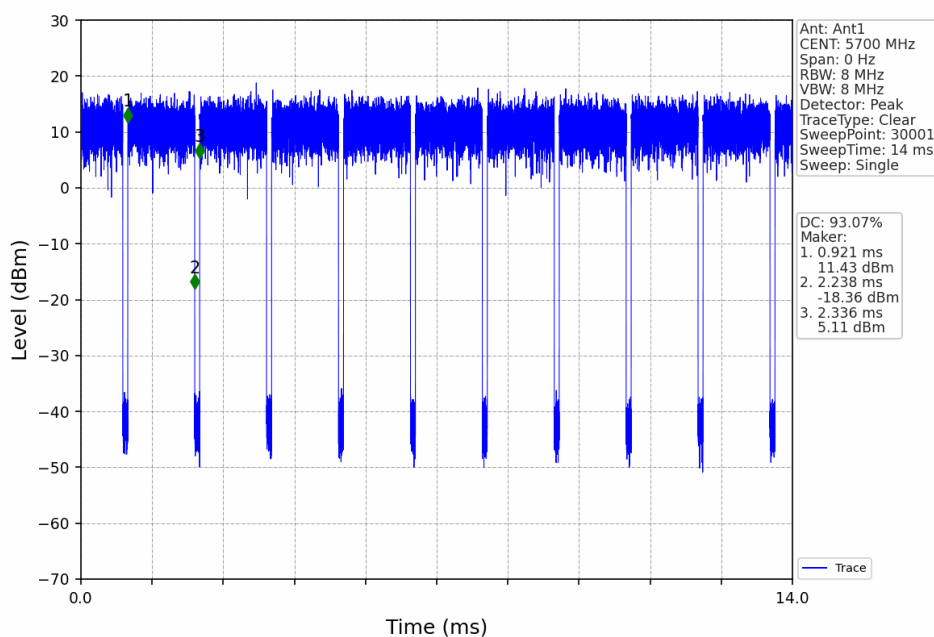
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



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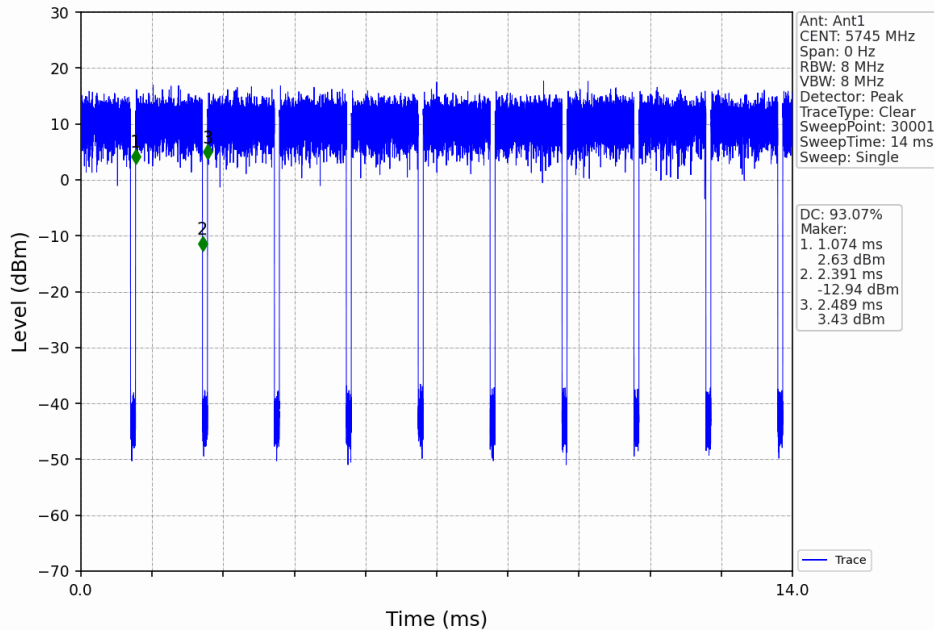
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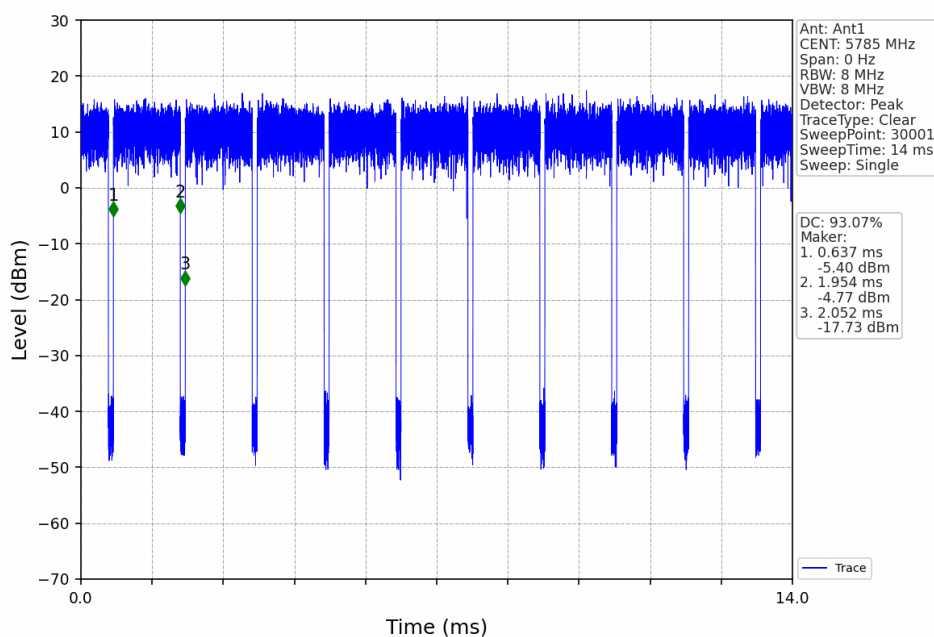
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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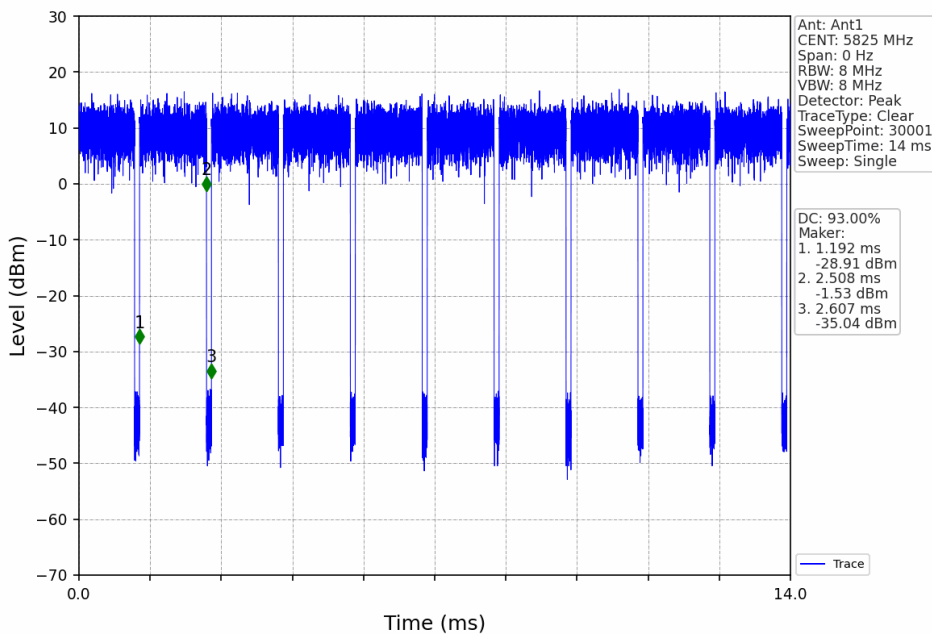
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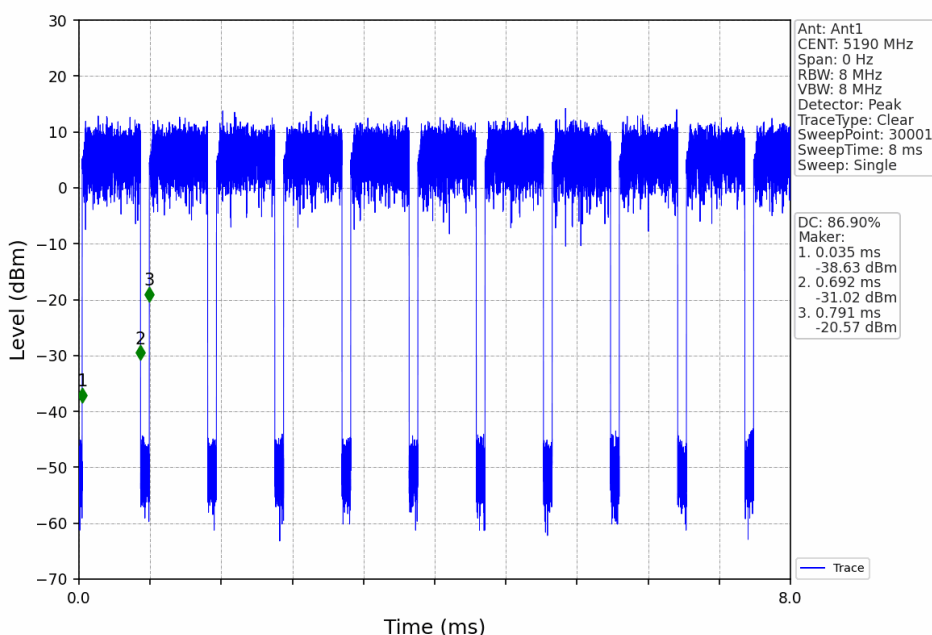
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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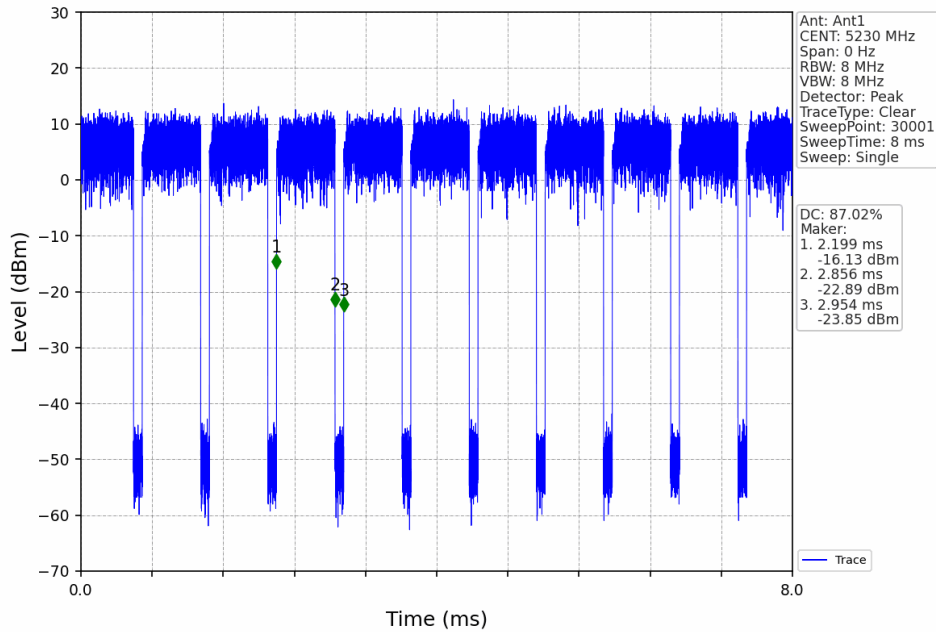
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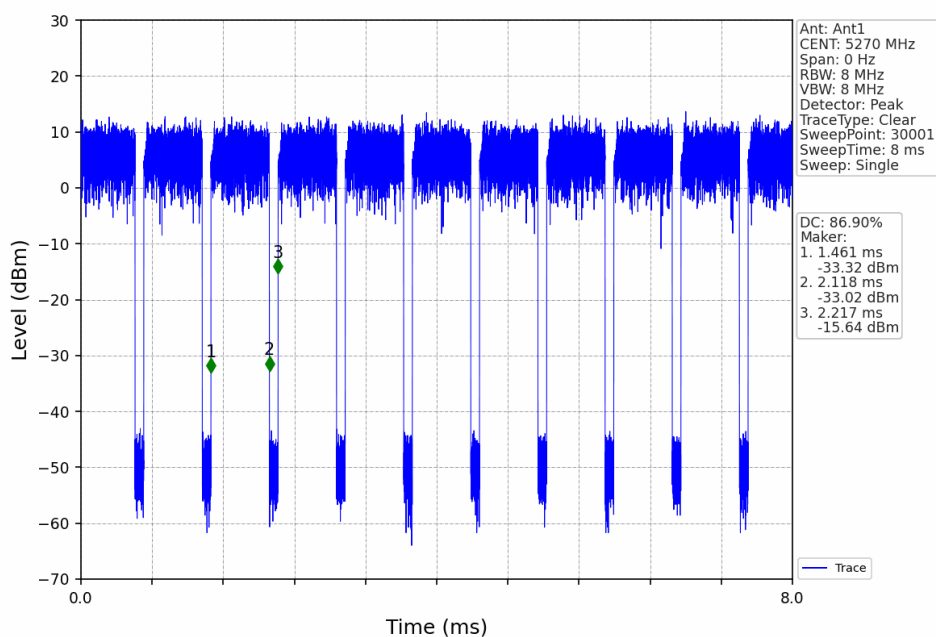
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



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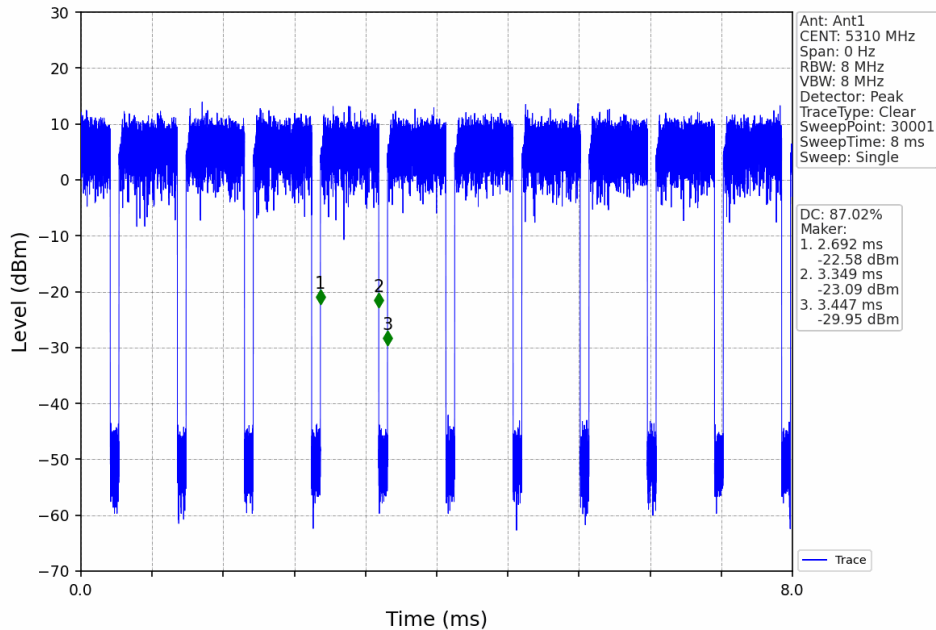
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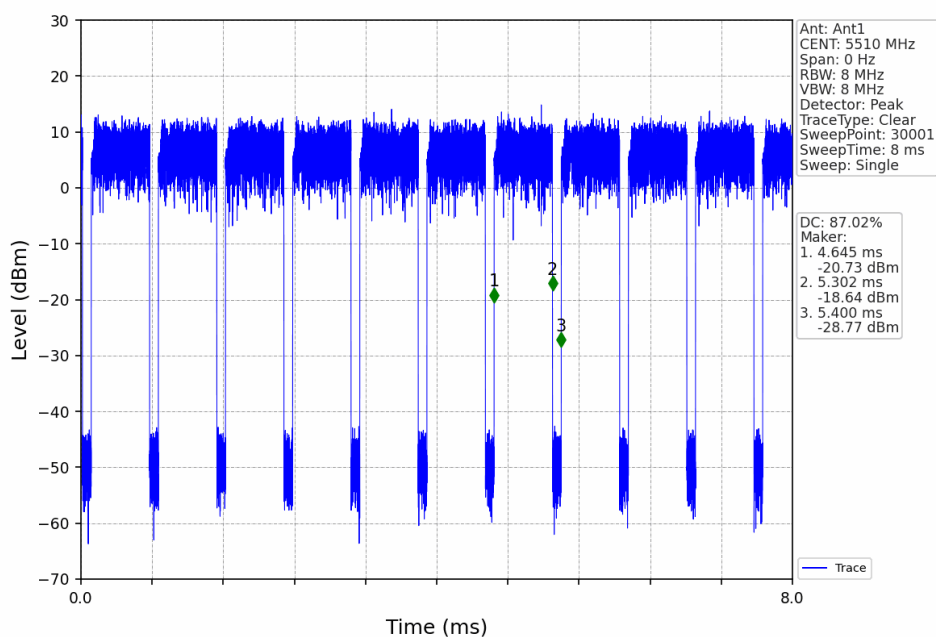
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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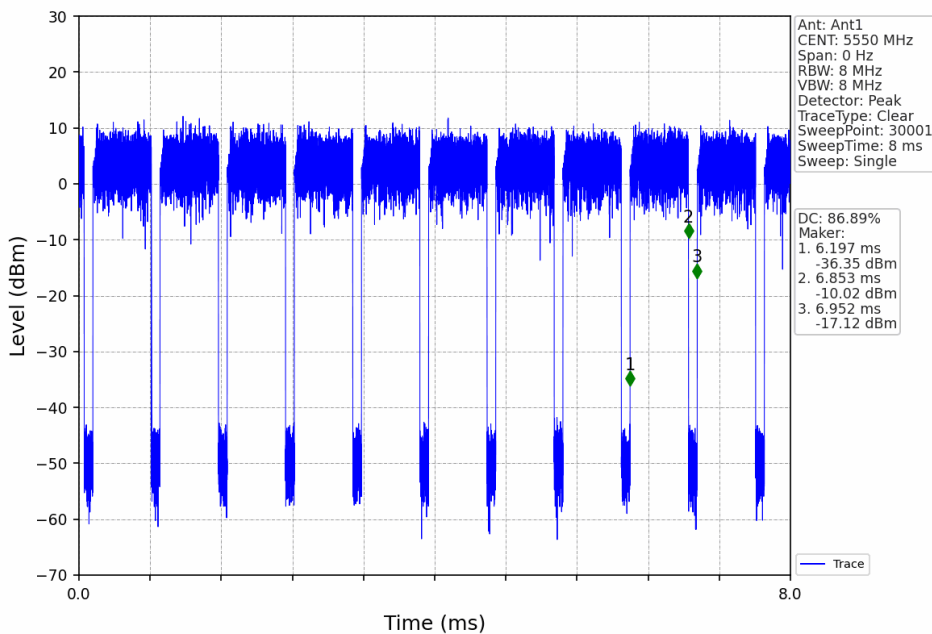
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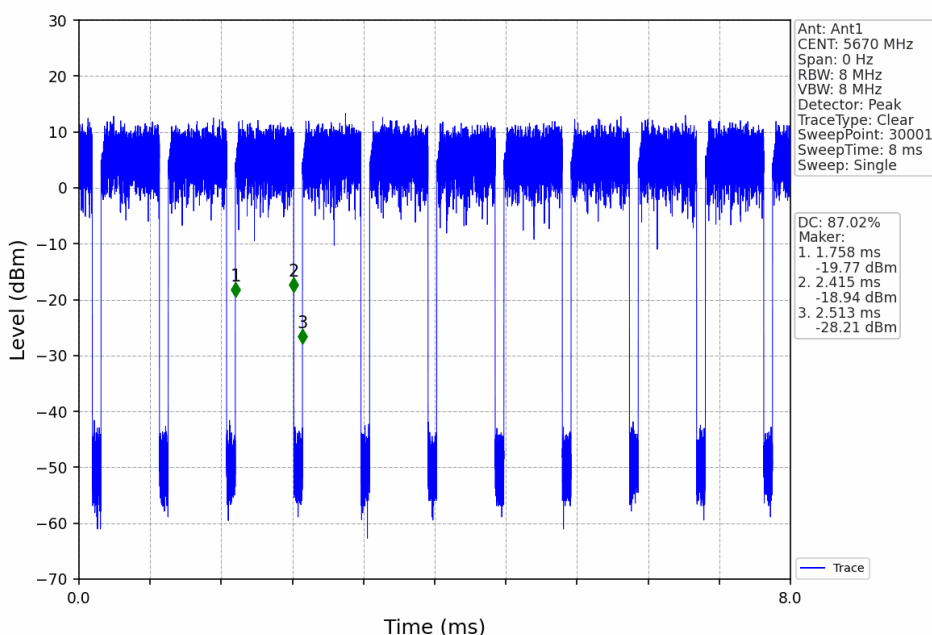
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



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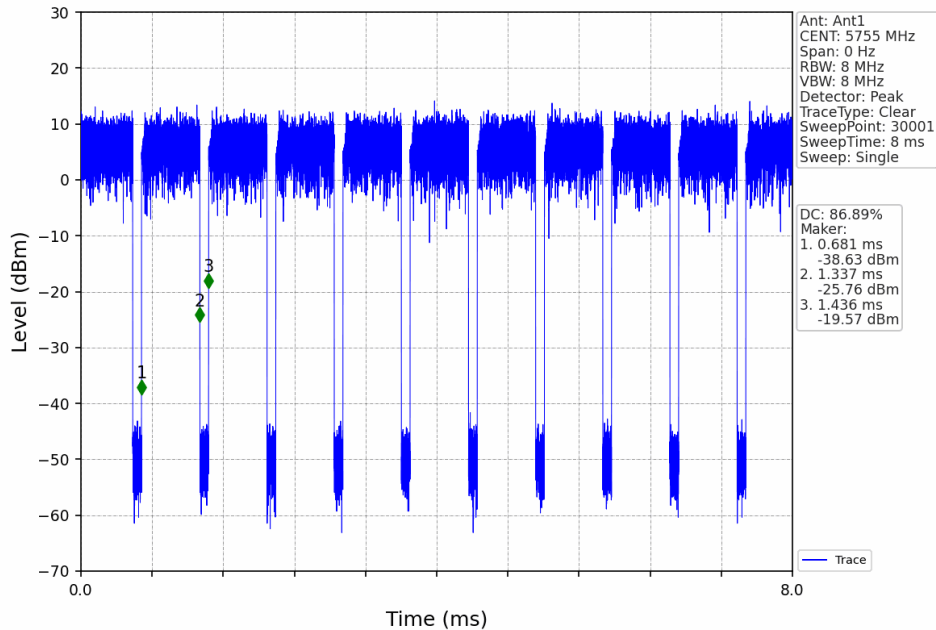
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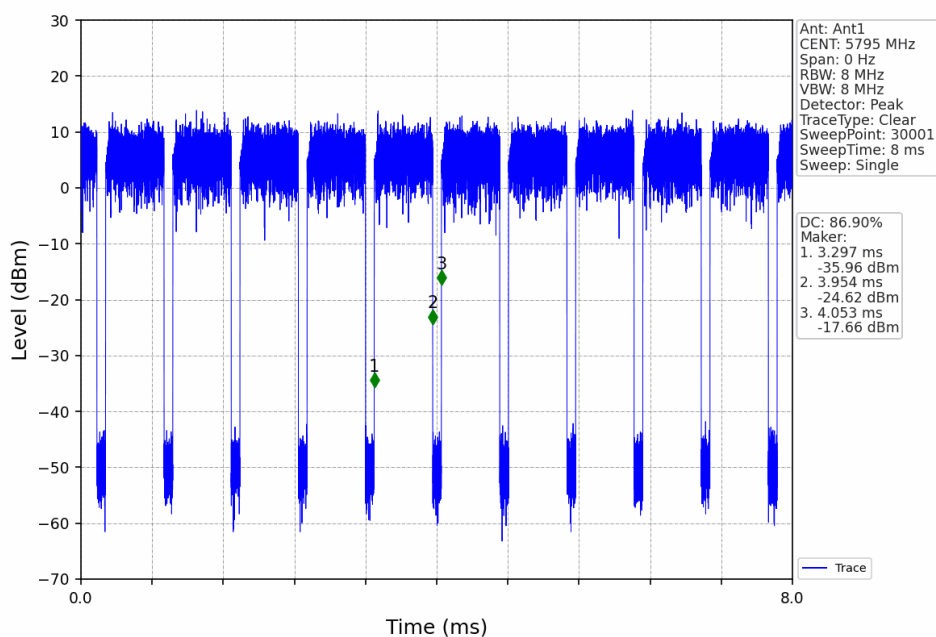
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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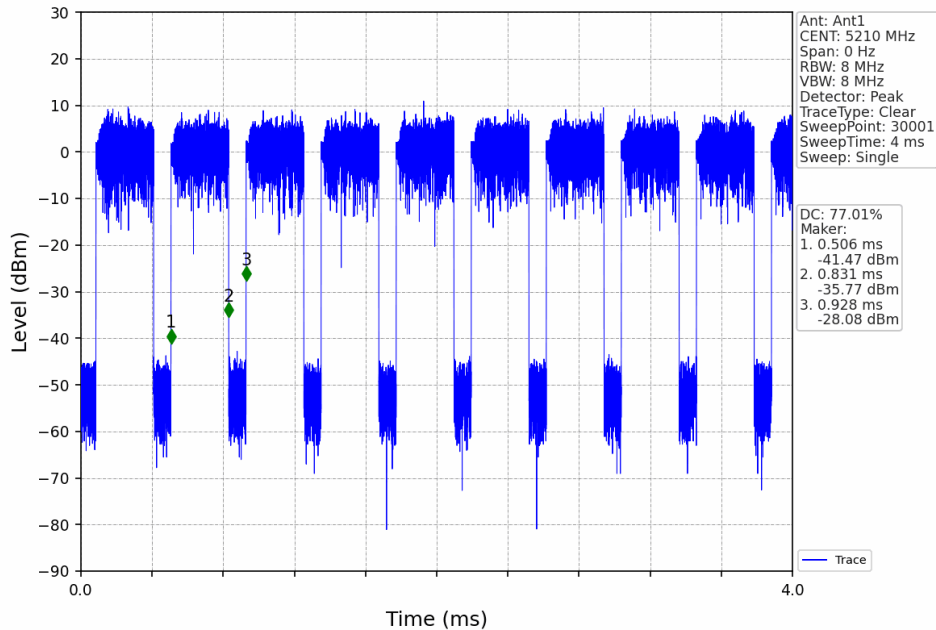
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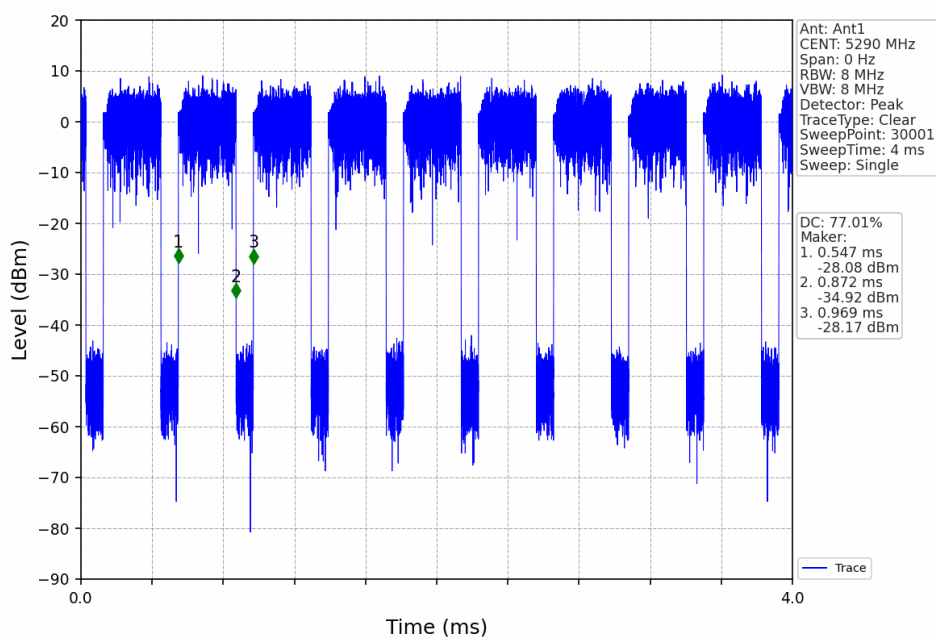
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



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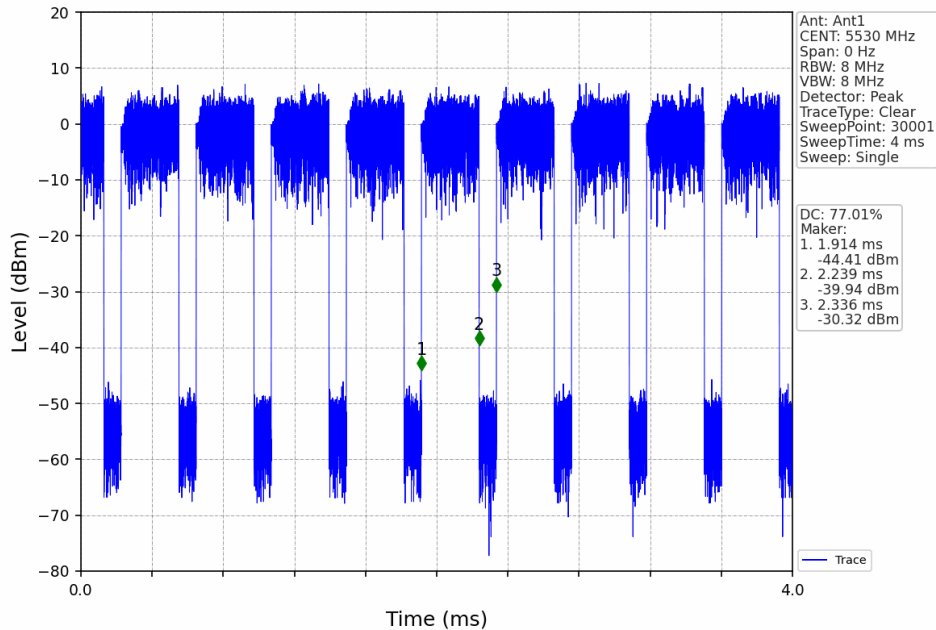
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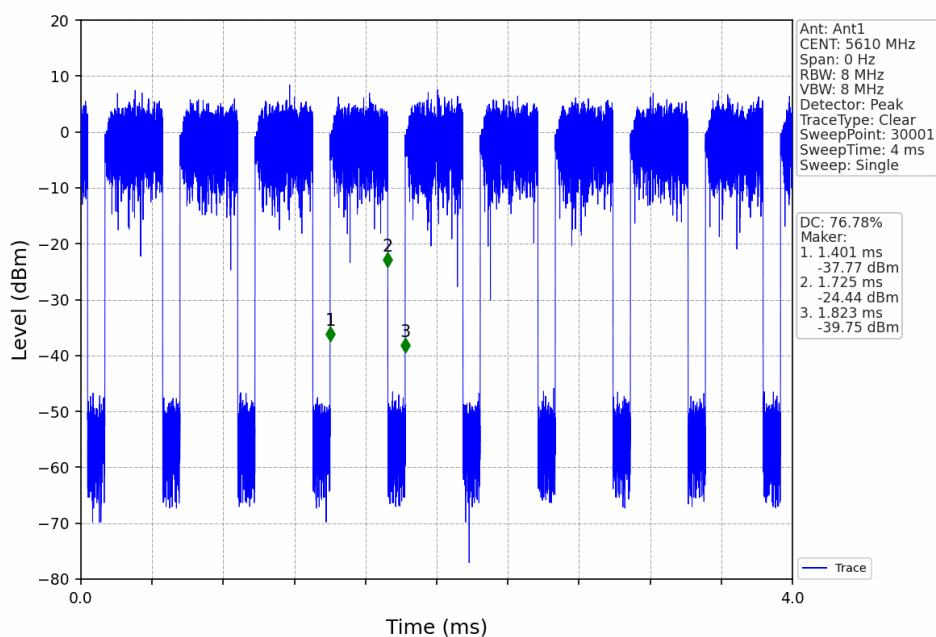
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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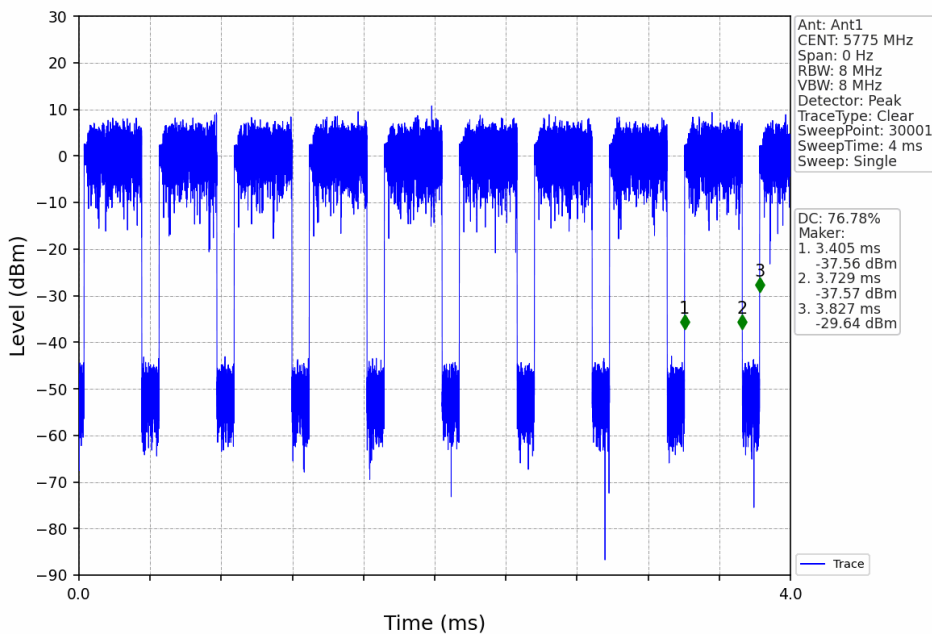
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.873	Pass
		5200	1	17.796	Pass
		5240	1	18.426	Pass
		5260	1	18.128	Pass
		5300	1	18.626	Pass
		5320	1	19.351	Pass
		5500	1	20.412	Pass
		5580	1	23.827	Pass
		5700	1	23.285	Pass
		5745	1	23.749	Pass
		5785	1	22.444	Pass
		5825	1	21.697	Pass
802.11n (HT20)	SISO	5180	1	18.828	Pass
		5200	1	18.865	Pass
		5240	1	19.197	Pass
		5260	1	19.164	Pass
		5300	1	19.334	Pass
		5320	1	20.037	Pass
		5500	1	20.841	Pass
		5580	1	24.100	Pass
		5700	1	23.508	Pass
		5745	1	23.970	Pass
		5785	1	23.936	Pass
		5825	1	23.473	Pass
802.11n (HT40)	SISO	5190	1	36.994	Pass
		5230	1	37.056	Pass
		5270	1	37.161	Pass
		5310	1	37.450	Pass
		5510	1	40.030	Pass
		5550	1	39.904	Pass



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		5670	1	40.536	Pass
		5755	1	39.518	Pass
		5795	1	38.503	Pass
802.11ac (VHT20)	SISO	5180	1	18.816	Pass
		5200	1	18.782	Pass
		5240	1	19.227	Pass
		5260	1	19.113	Pass
		5300	1	19.773	Pass
		5320	1	19.948	Pass
		5500	1	21.453	Pass
		5580	1	20.272	Pass
		5700	1	18.759	Pass
		5745	1	18.642	Pass
		5785	1	18.723	Pass
		5825	1	18.652	Pass
802.11ac (VHT40)	SISO	5190	1	37.026	Pass
		5230	1	37.206	Pass
		5270	1	37.340	Pass
		5310	1	37.404	Pass
		5510	1	39.711	Pass
		5550	1	36.846	Pass
		5670	1	36.951	Pass
		5755	1	37.112	Pass
		5795	1	37.043	Pass
802.11ac (VHT80)	SISO	5210	1	77.097	Pass
		5290	1	77.303	Pass
		5530	1	76.455	Pass
		5610	1	76.469	Pass
		5775	1	76.234	Pass



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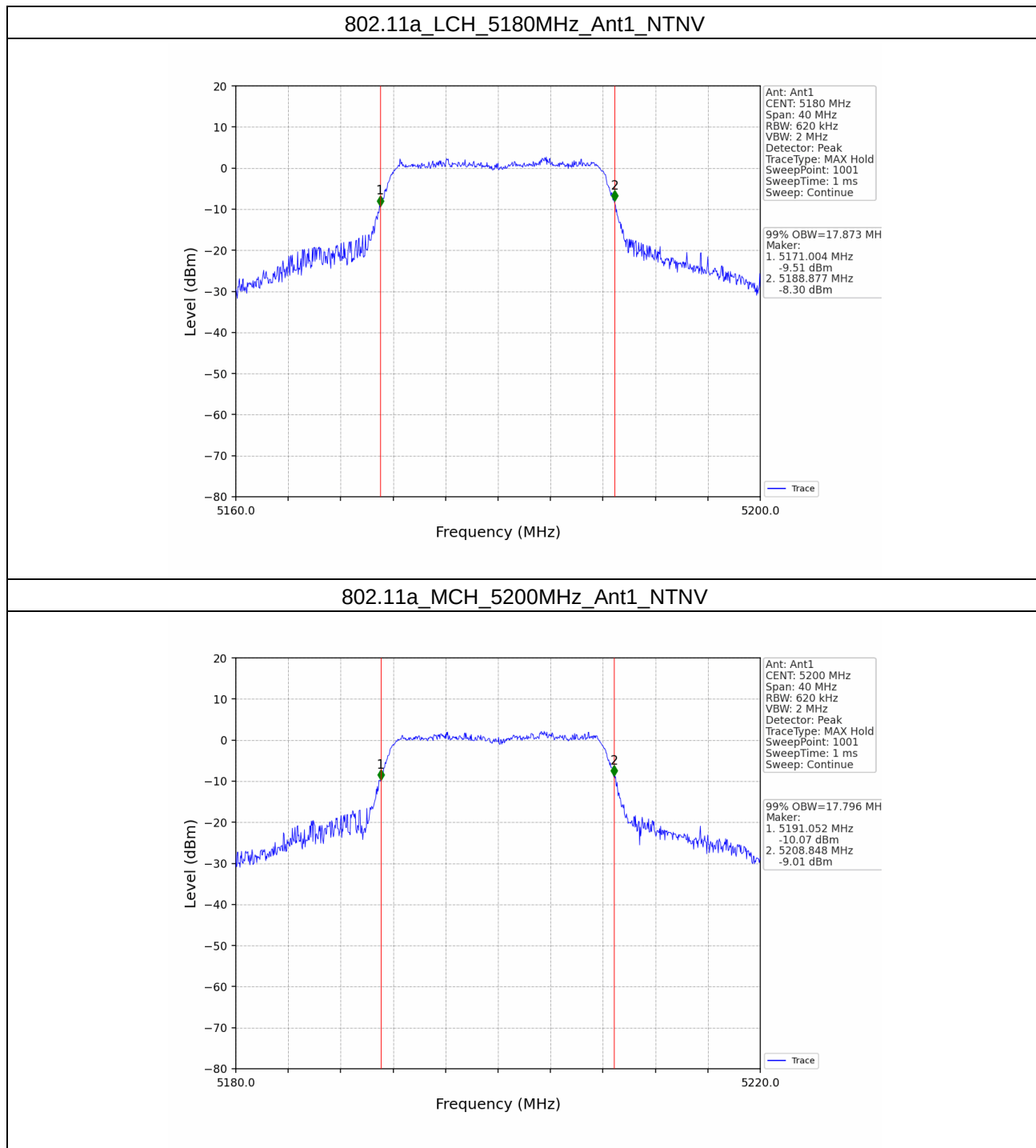
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2.1.2 Test Graph



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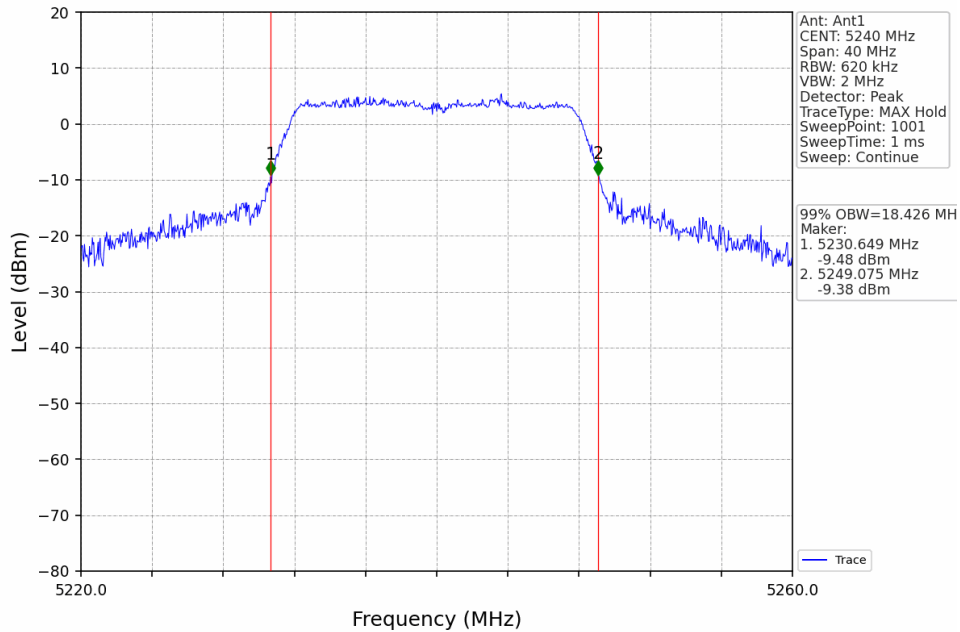
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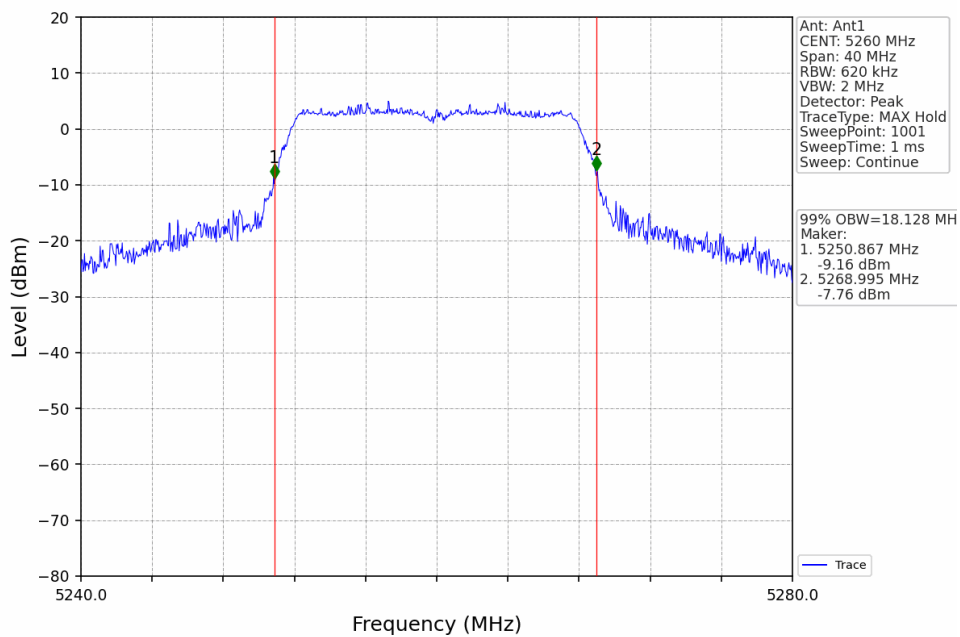
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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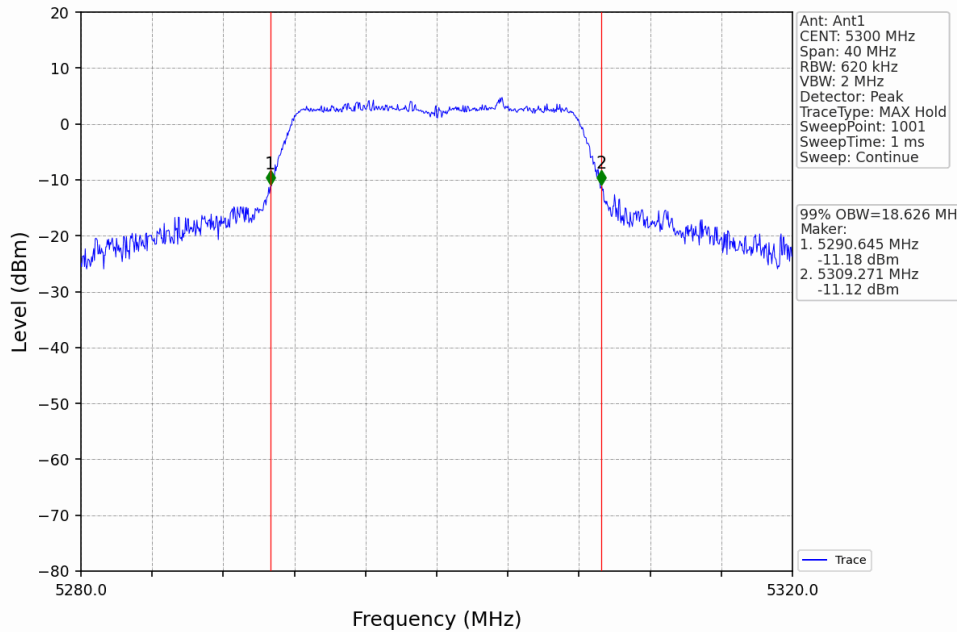
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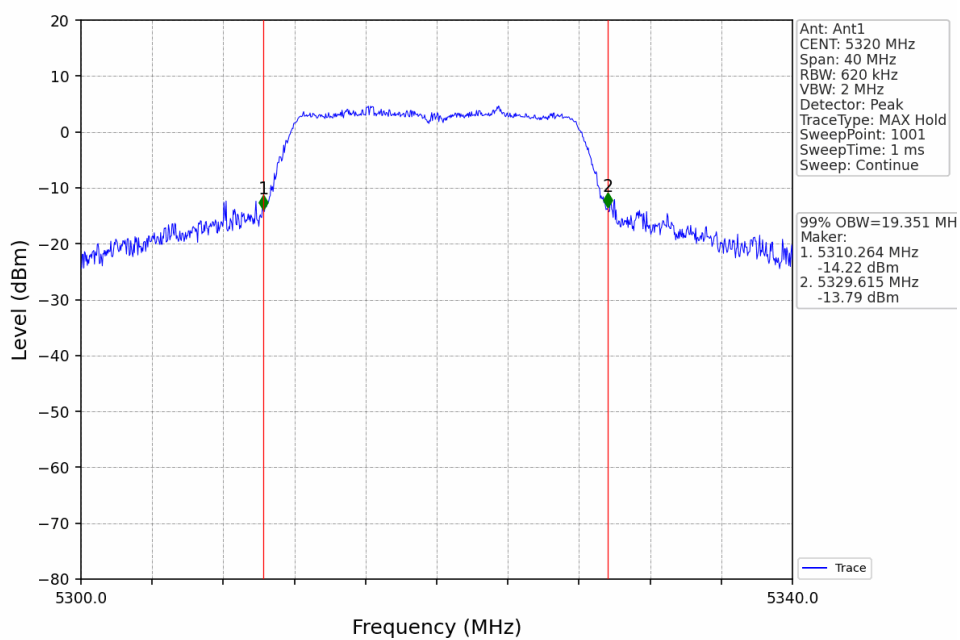
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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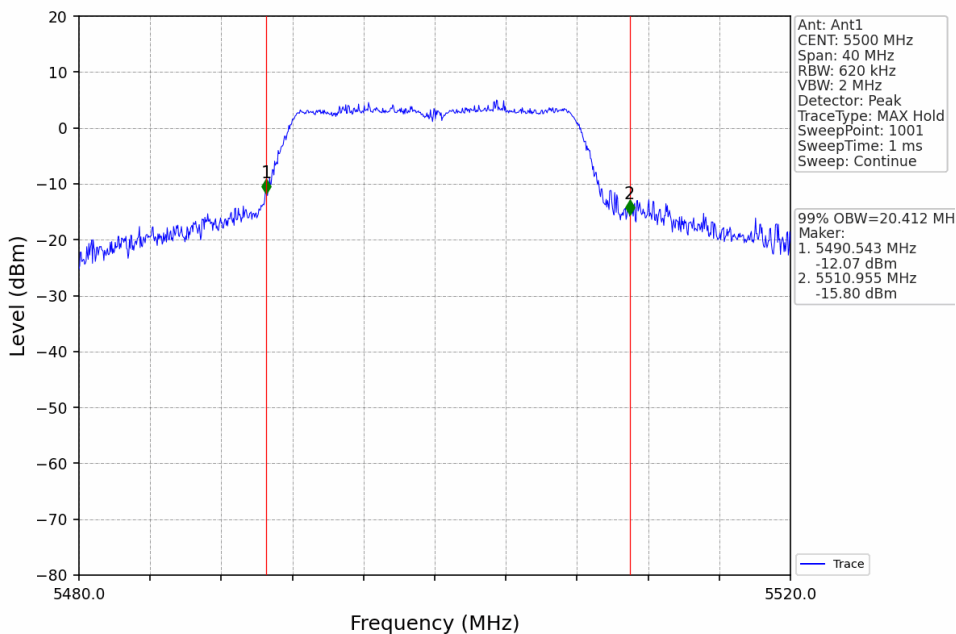
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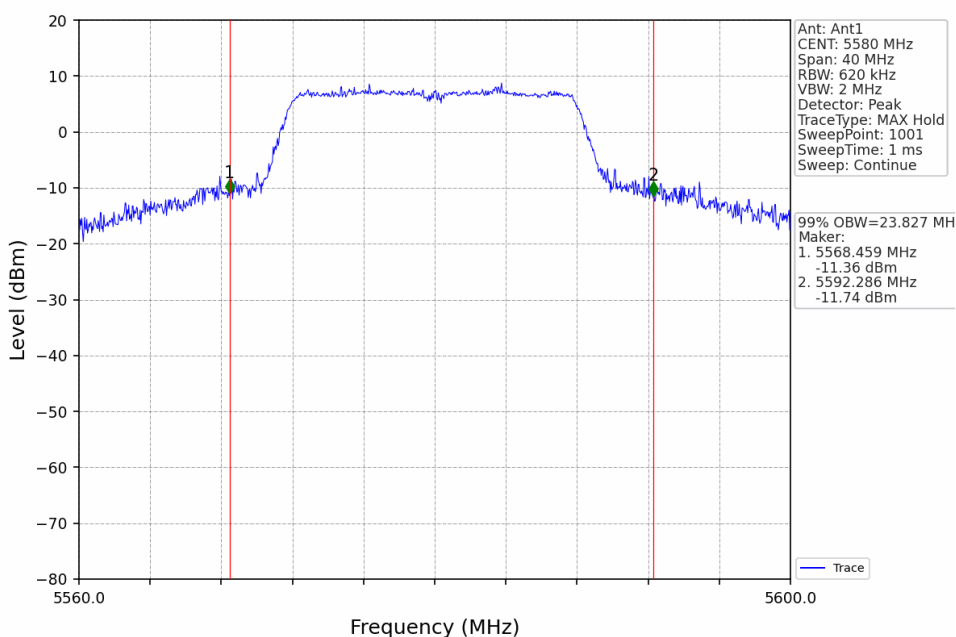
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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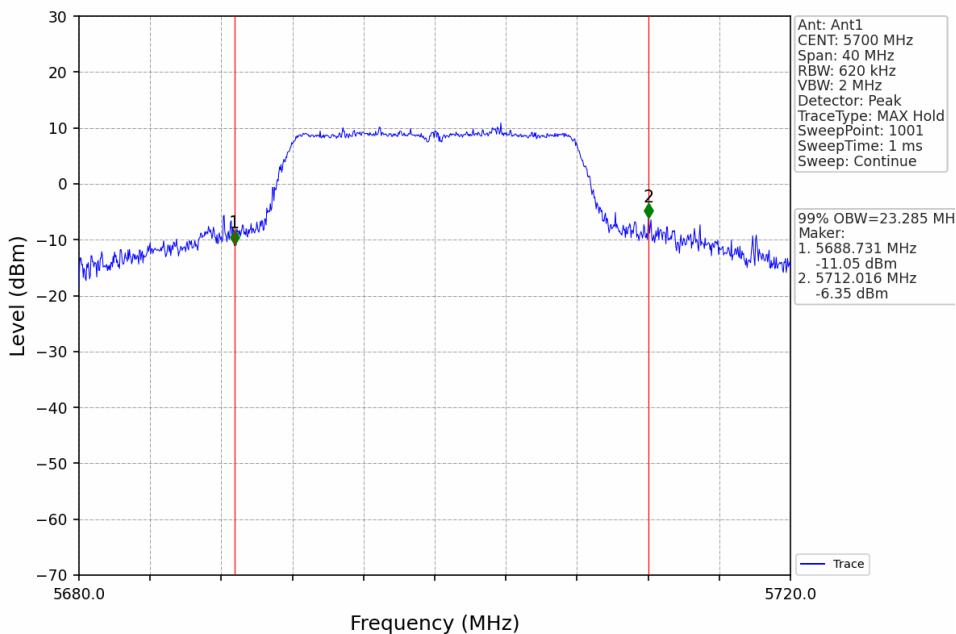
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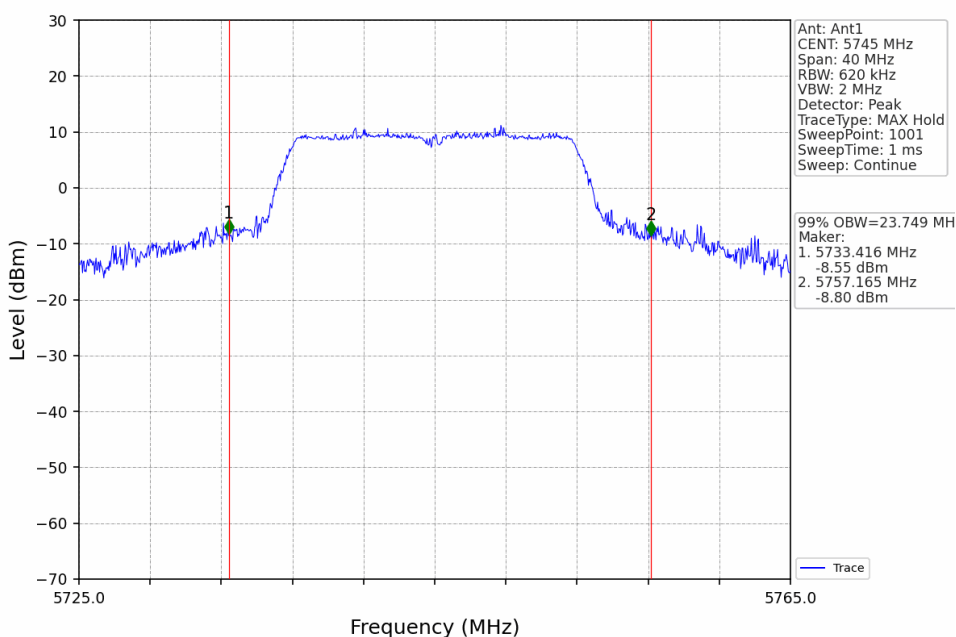
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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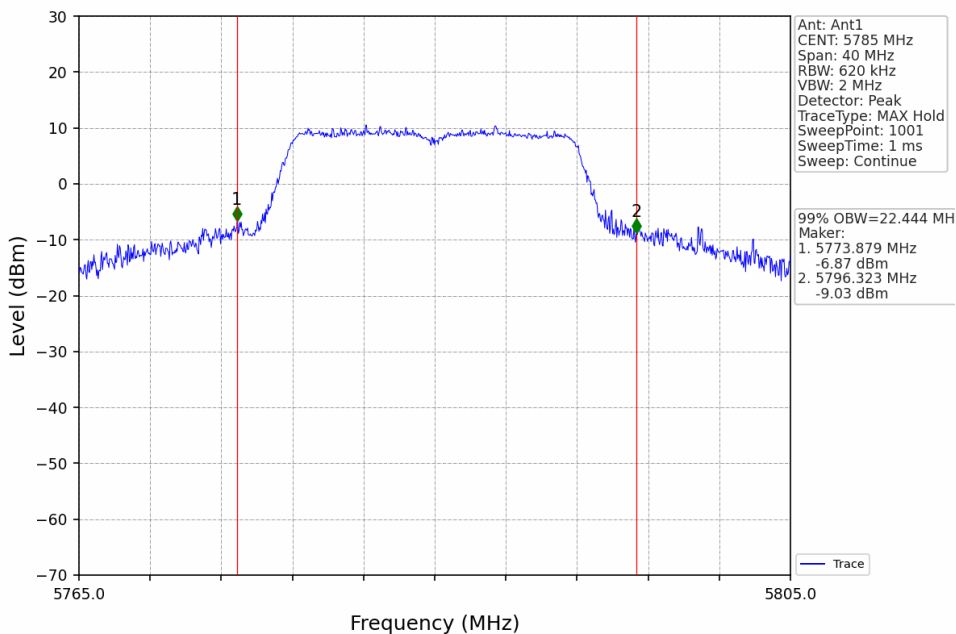
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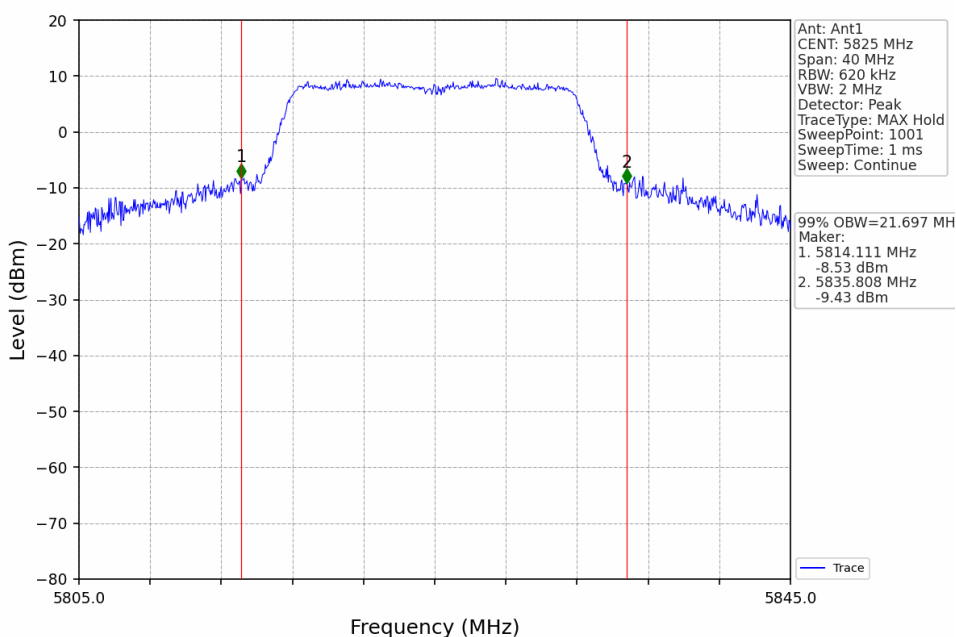
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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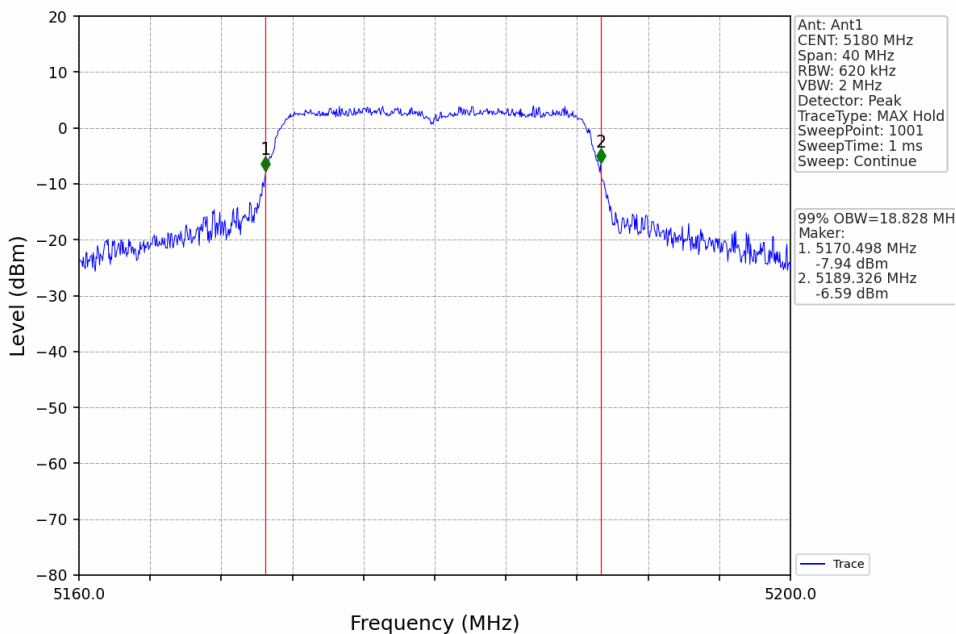
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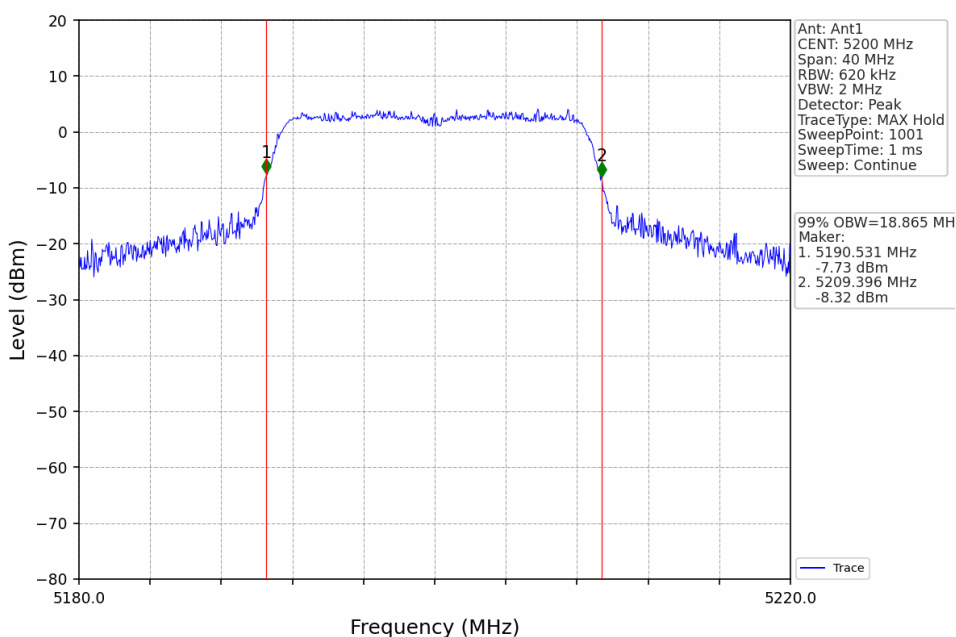
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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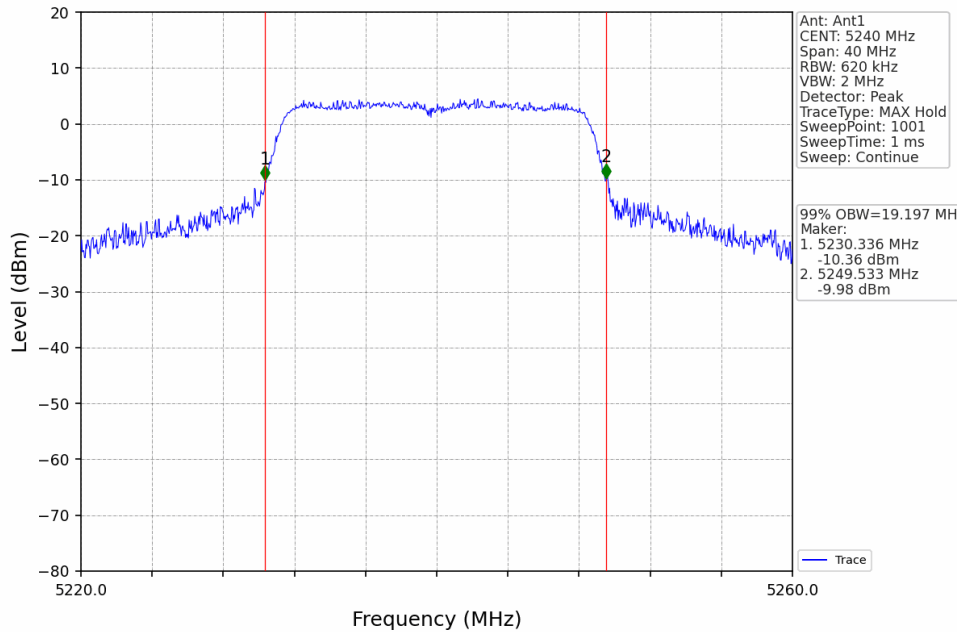
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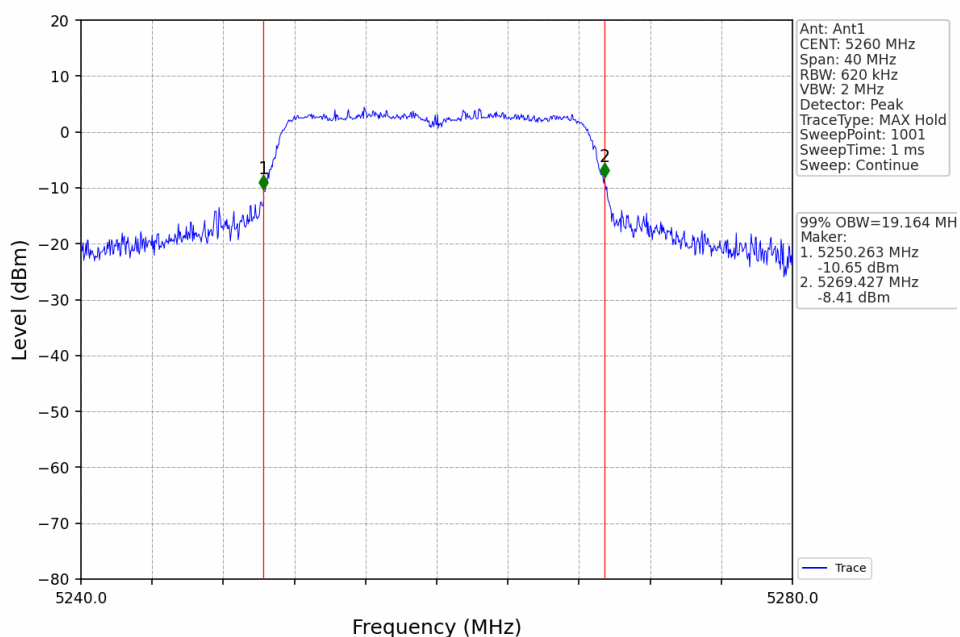
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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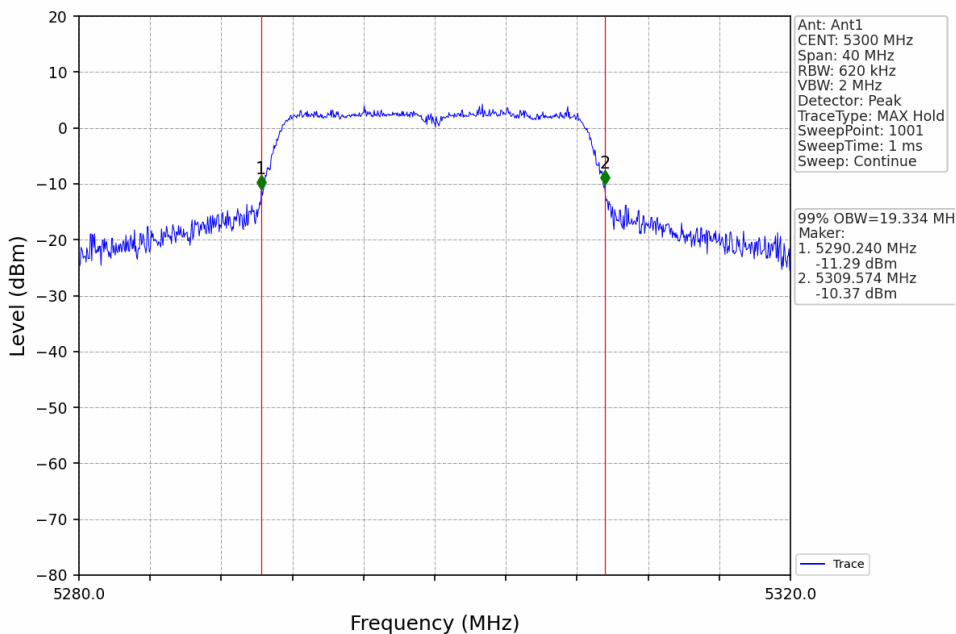
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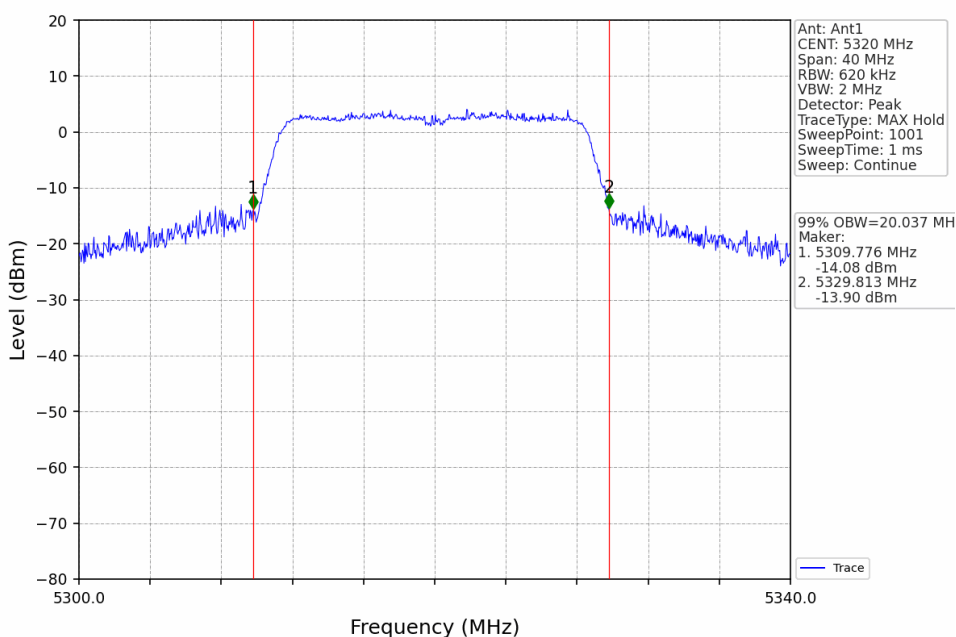
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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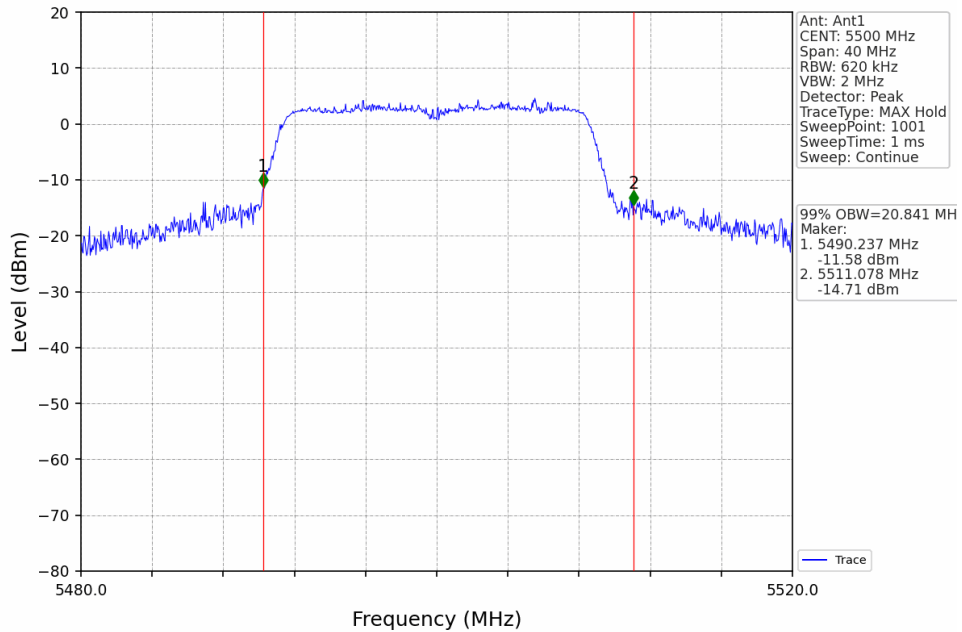
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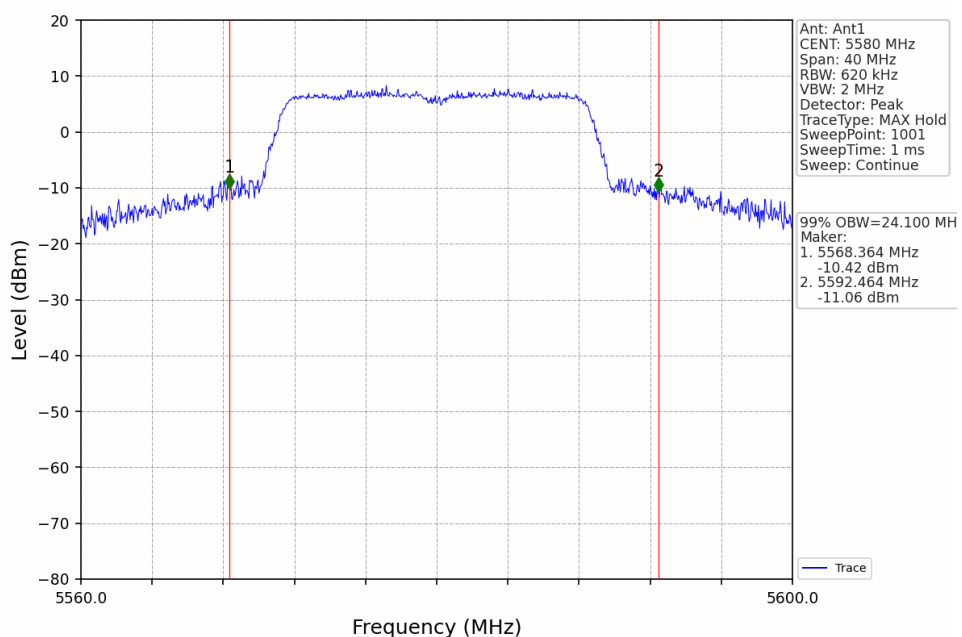
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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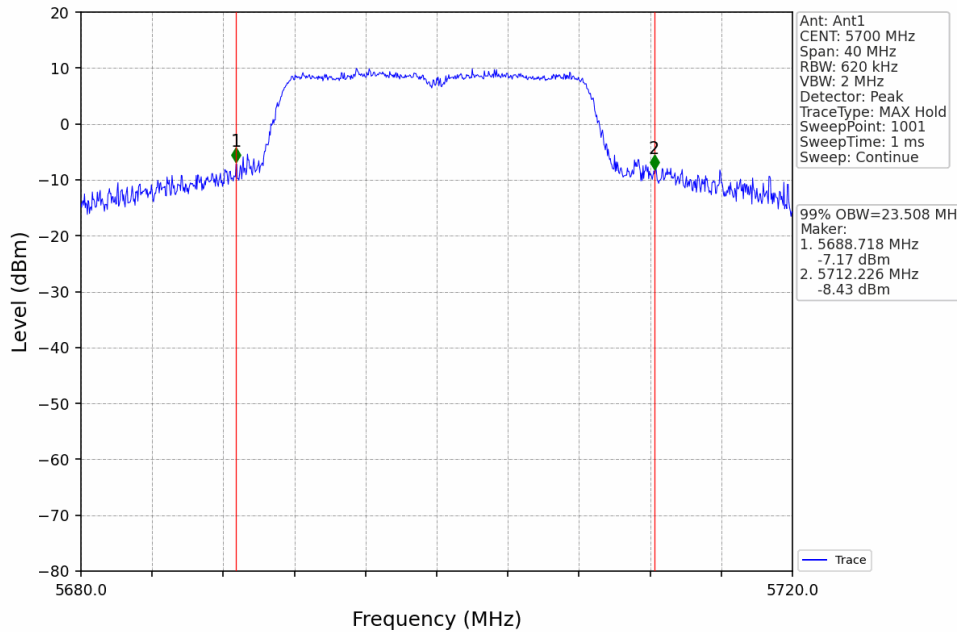
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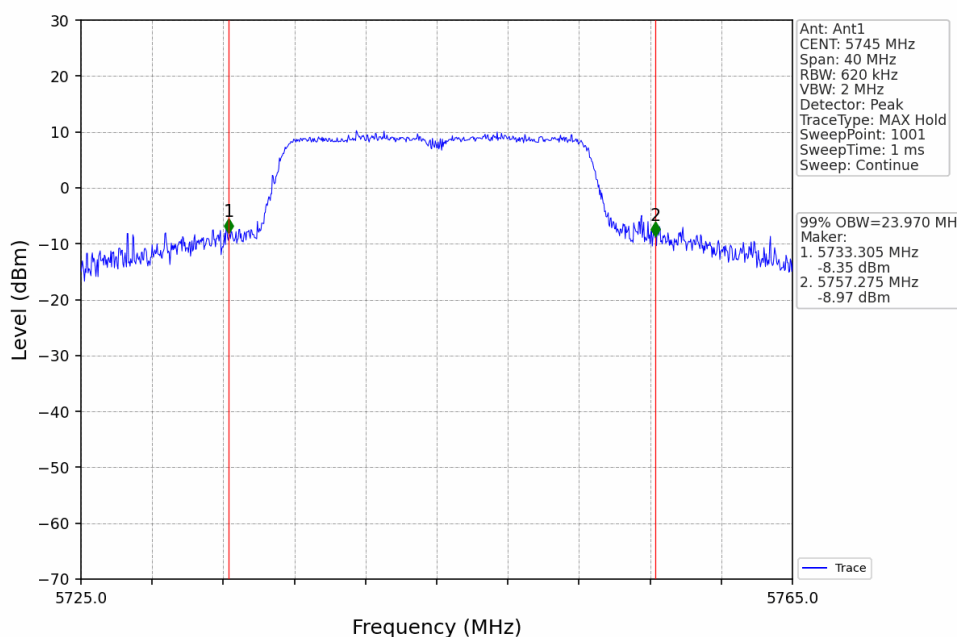
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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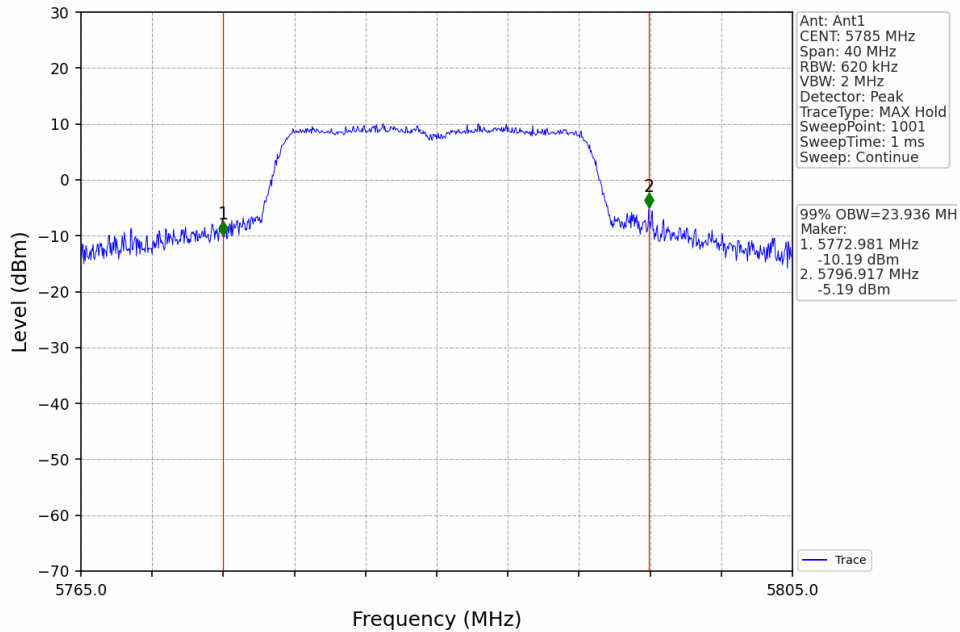
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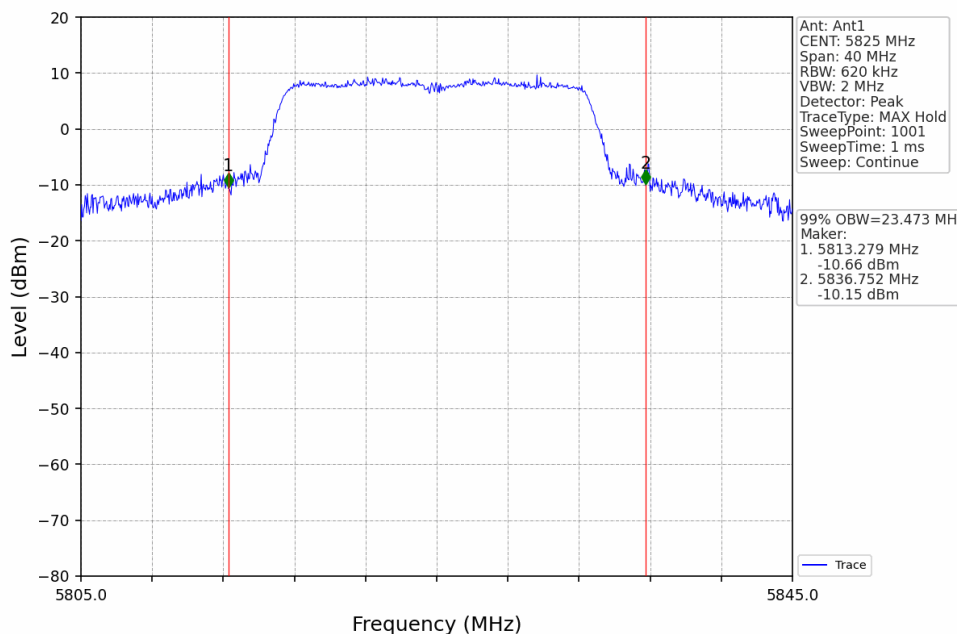
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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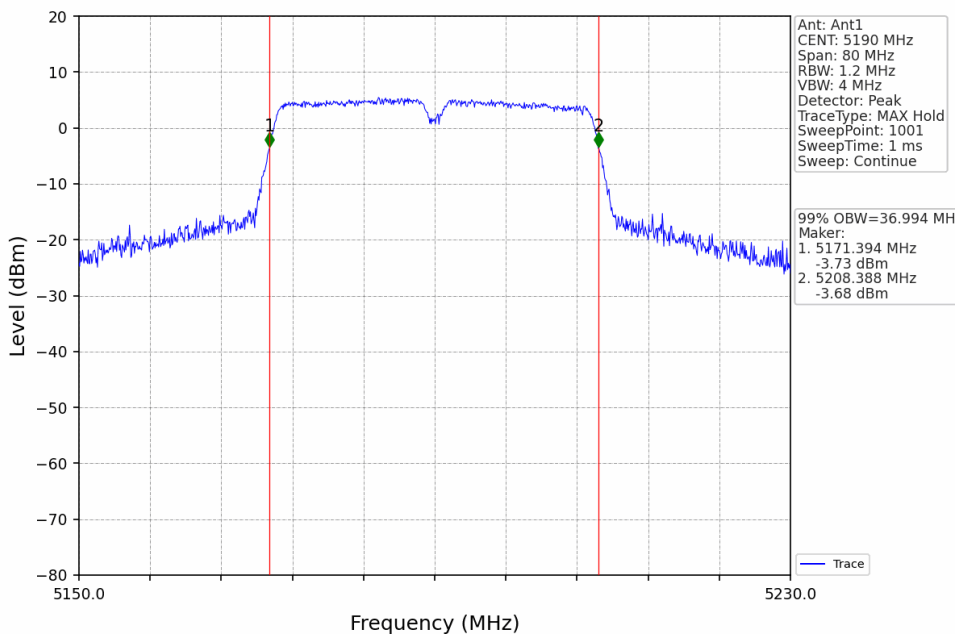
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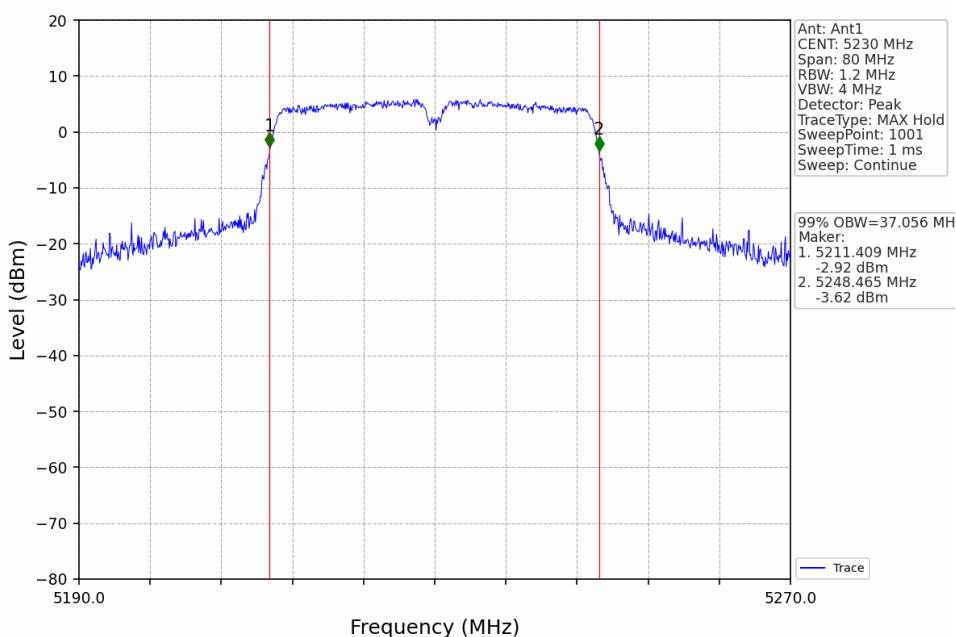
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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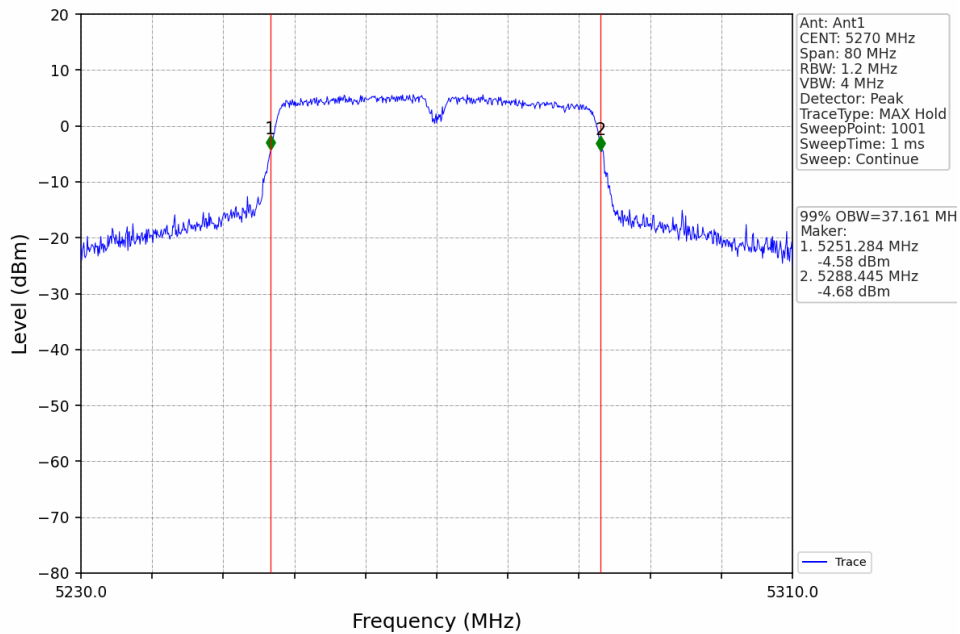
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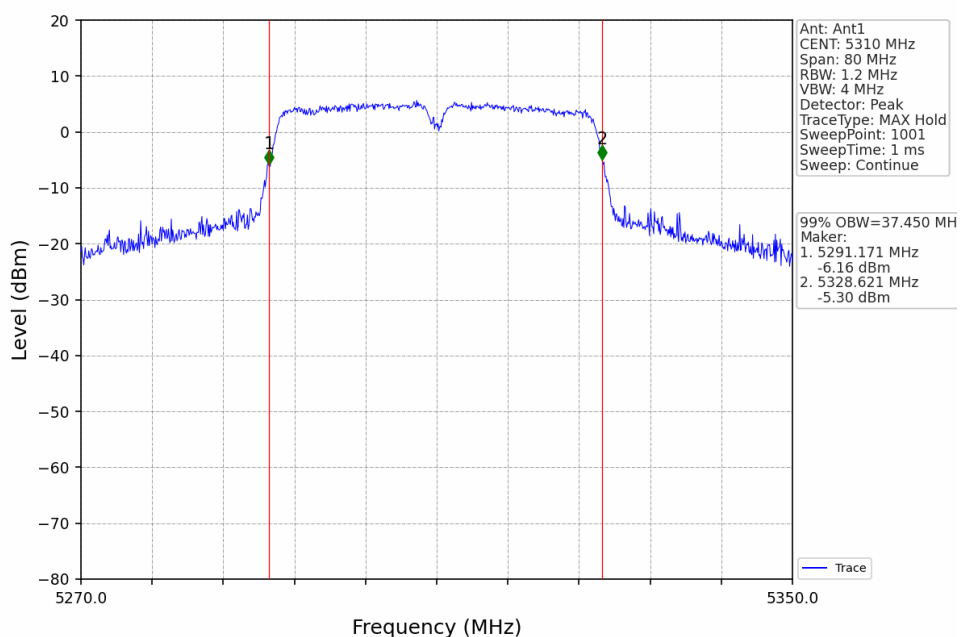
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



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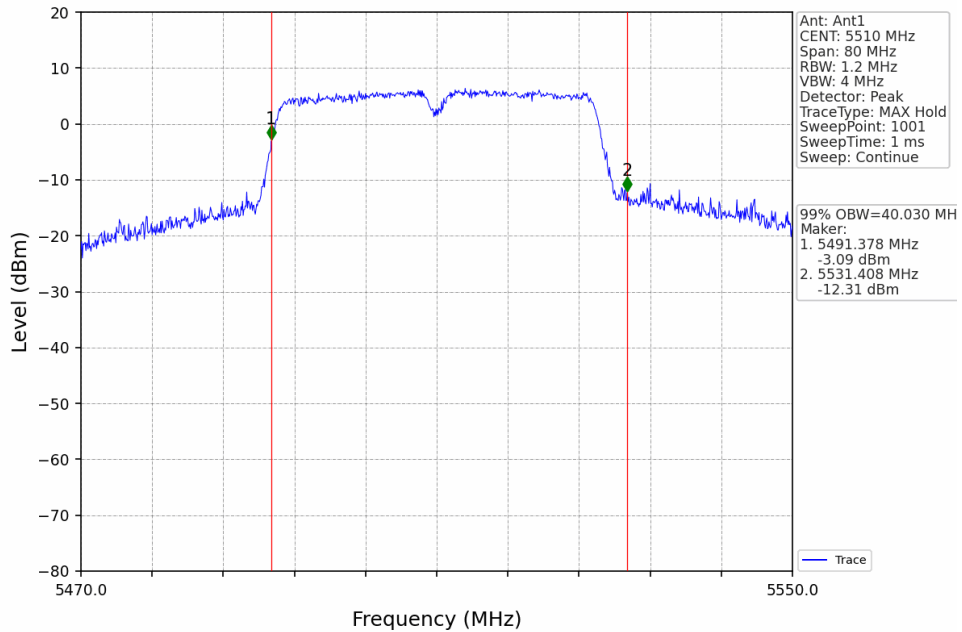
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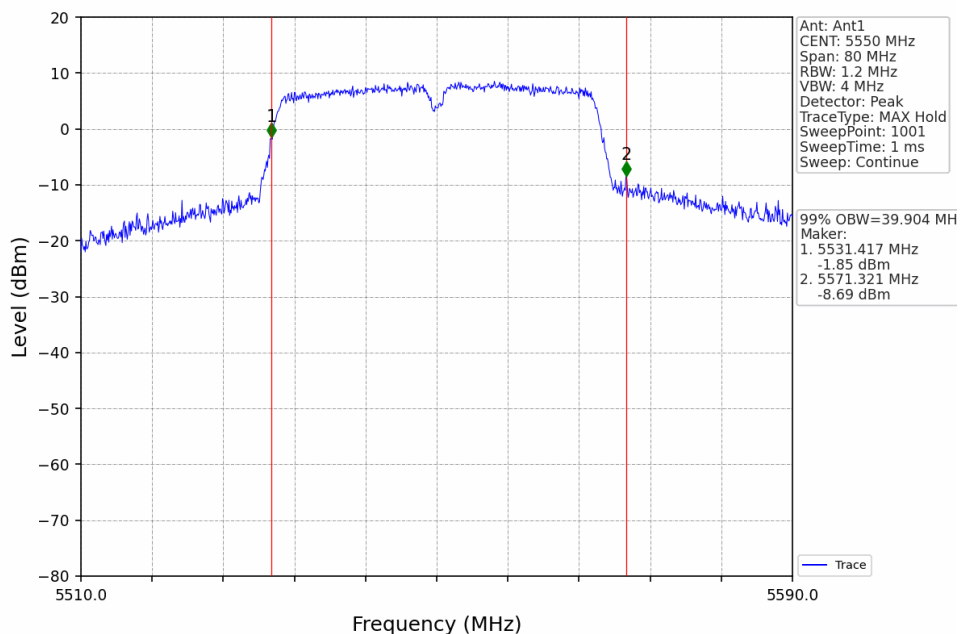
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



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