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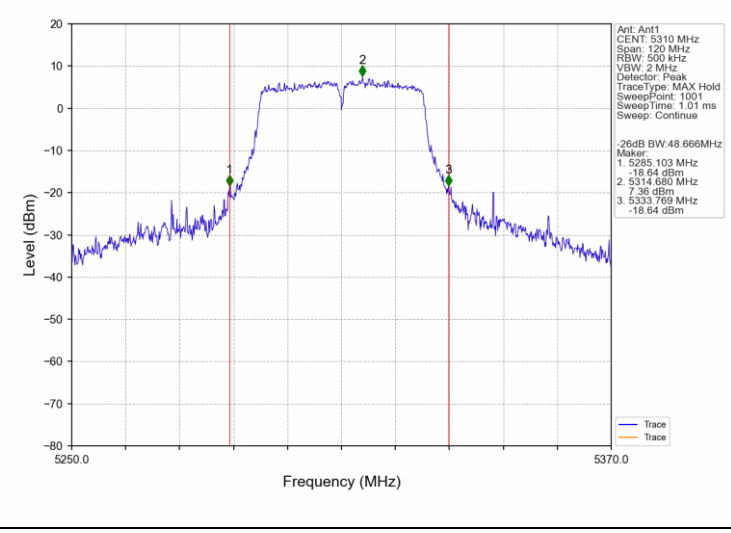

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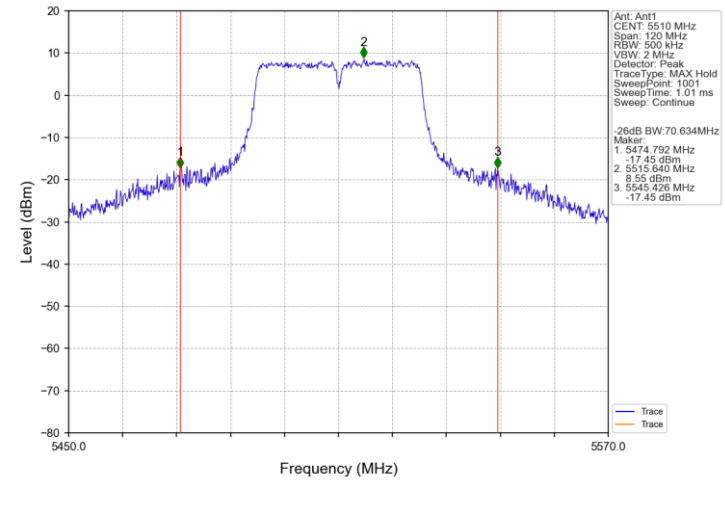

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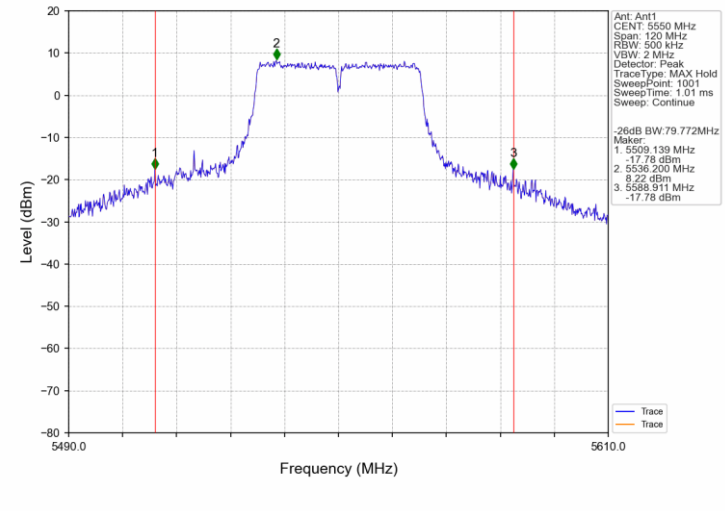

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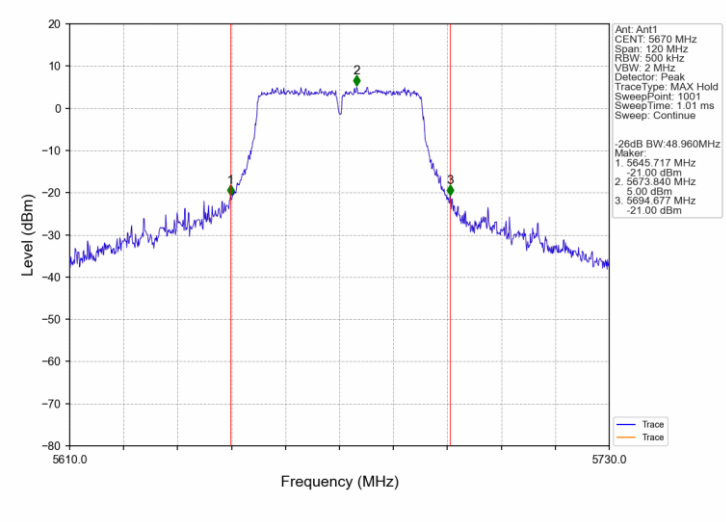
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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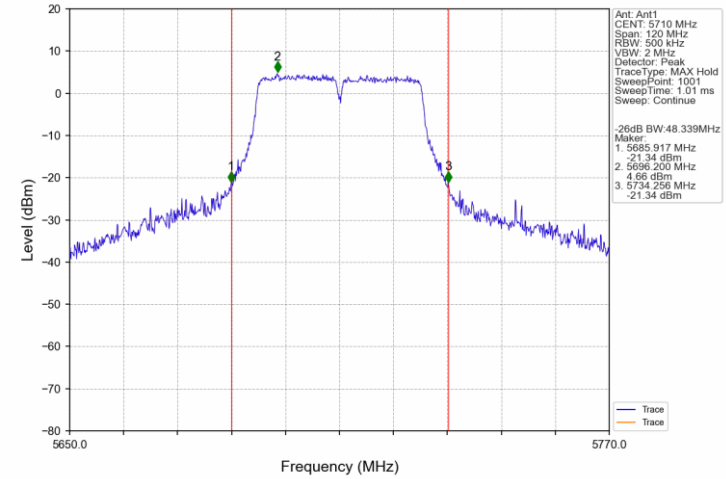
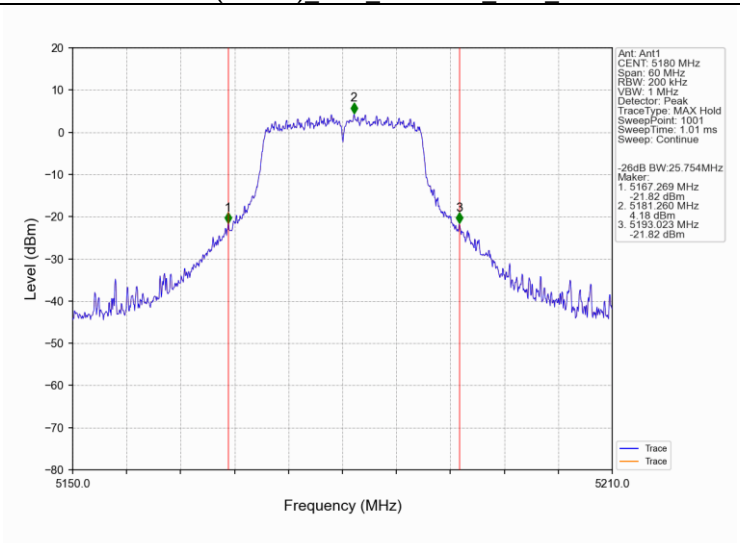


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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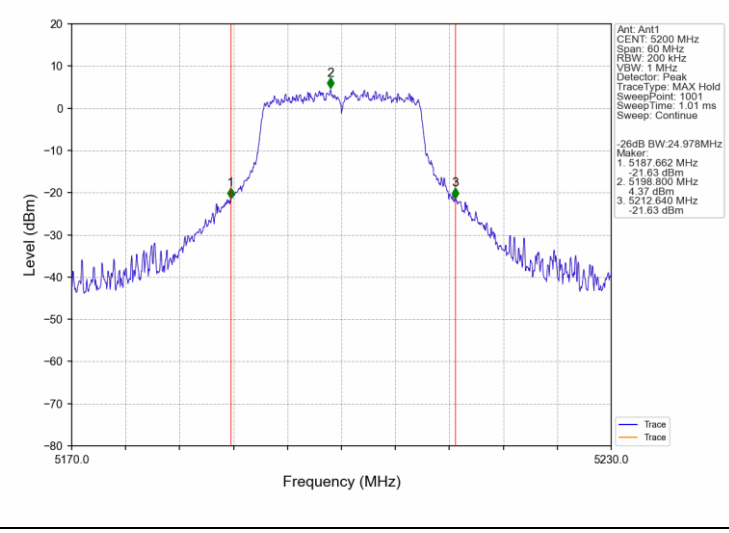

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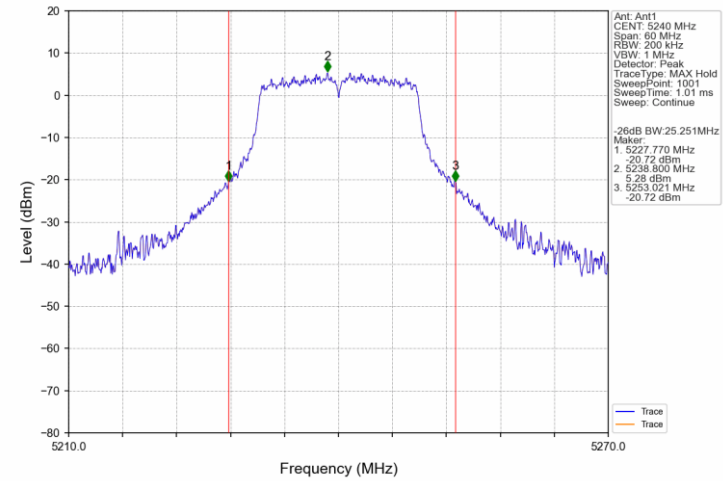

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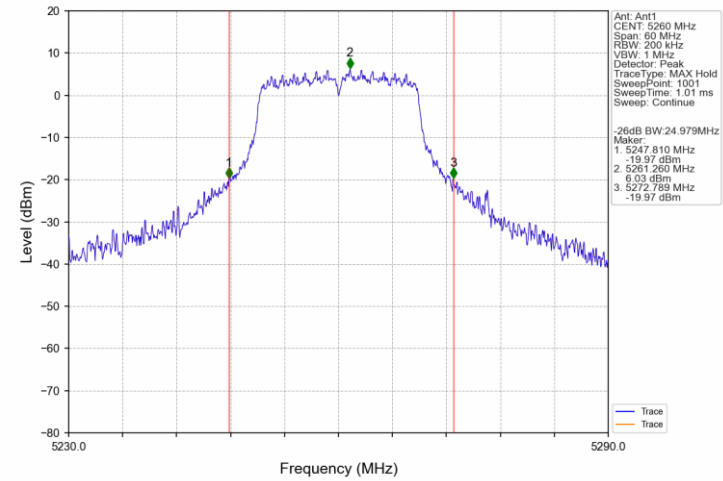

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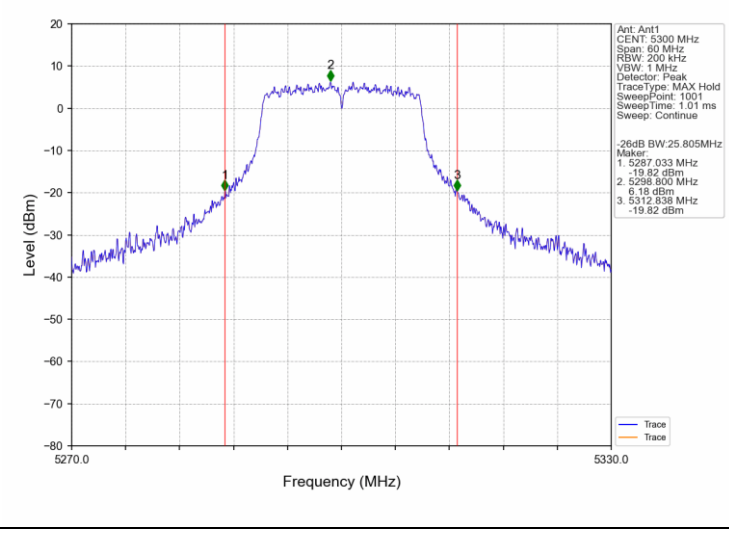
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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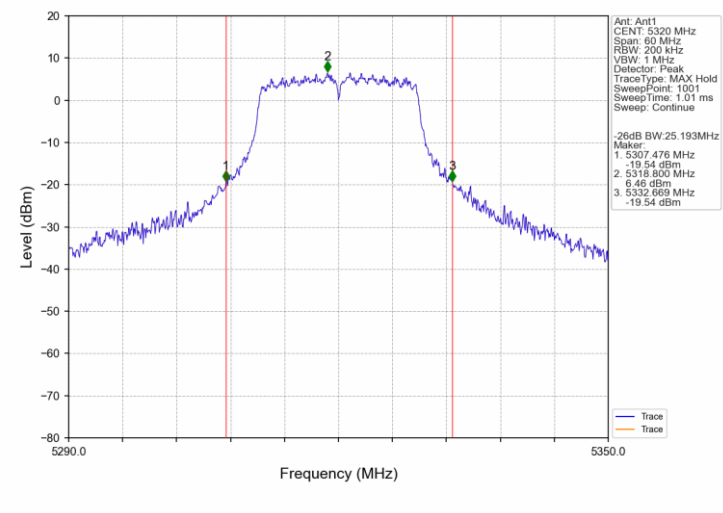
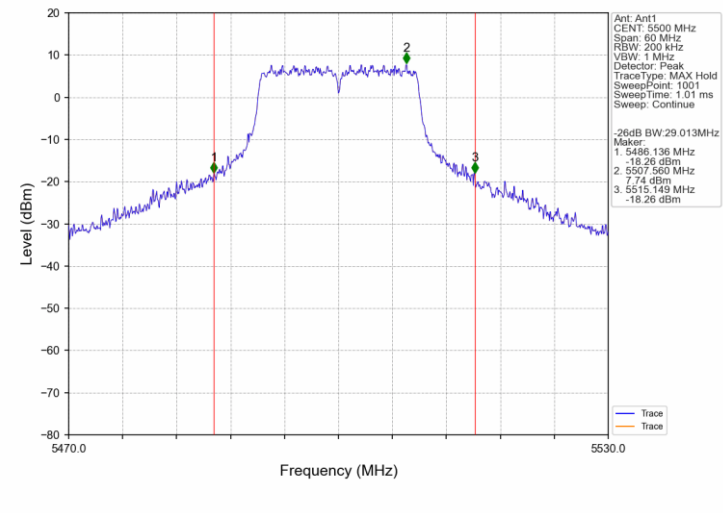


802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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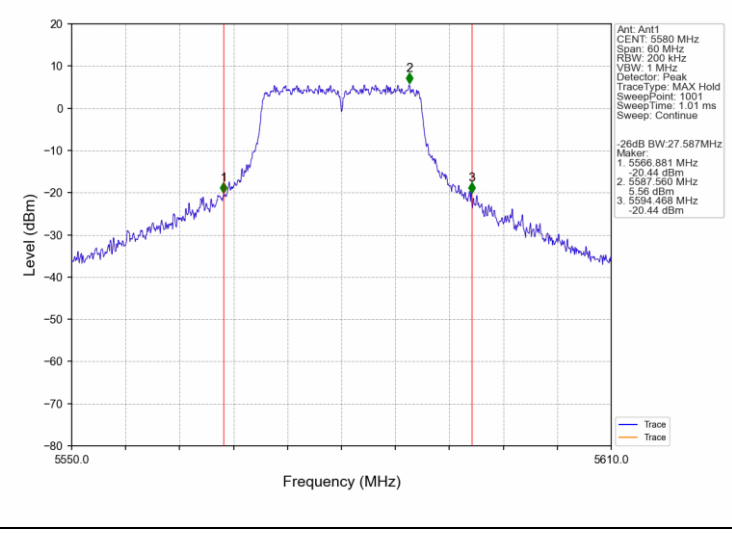
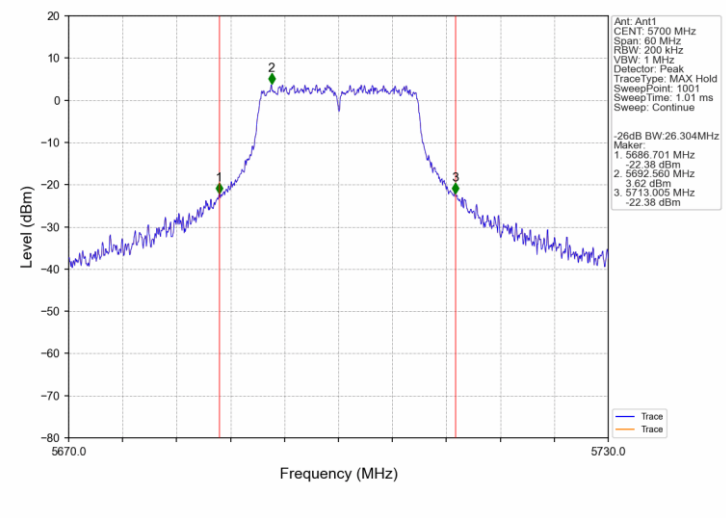
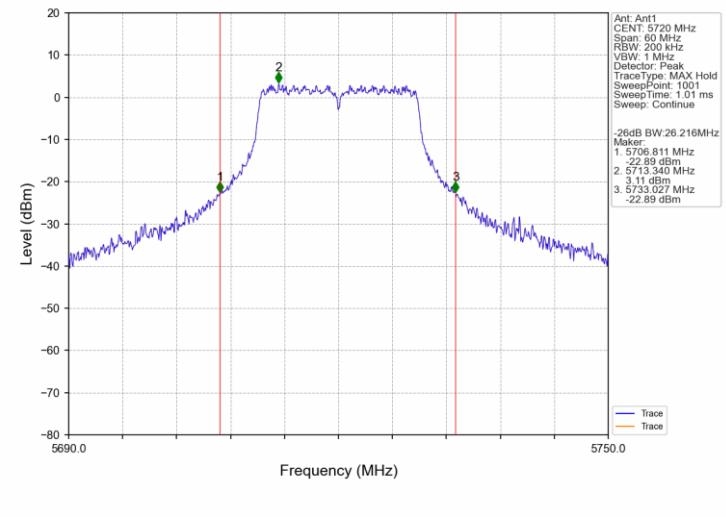
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5720MHz_Ant1_NTNV



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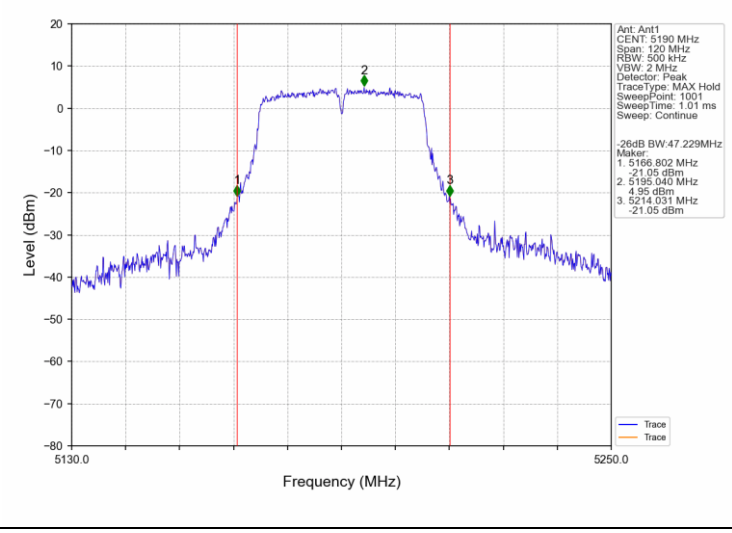

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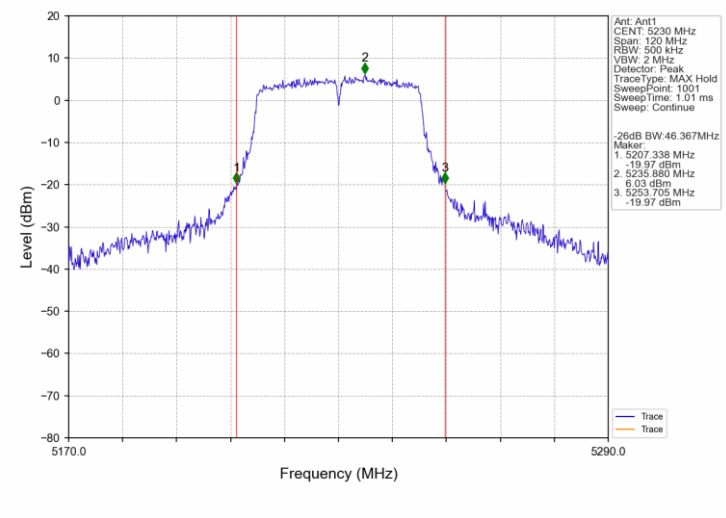
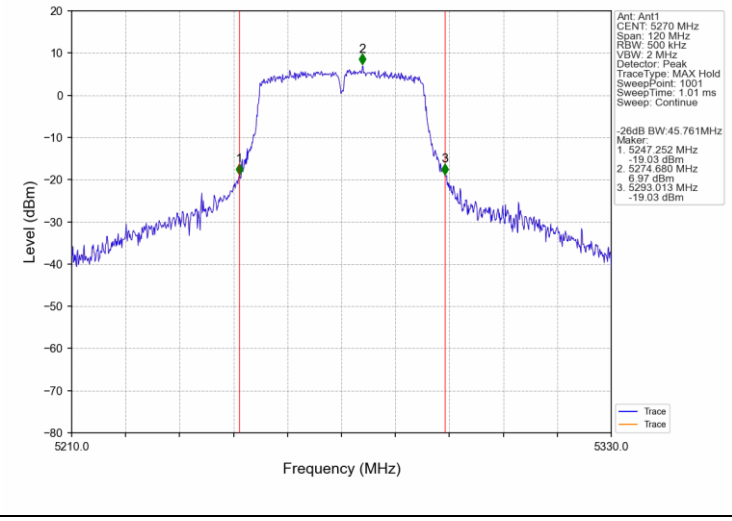


802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



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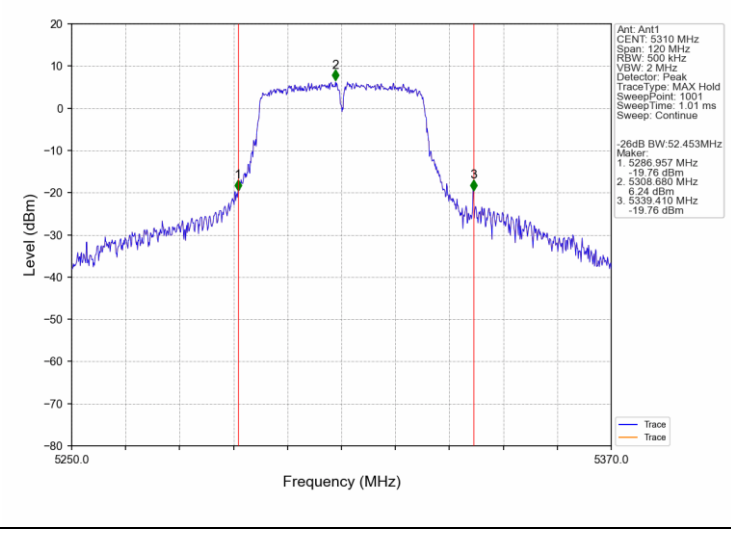
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



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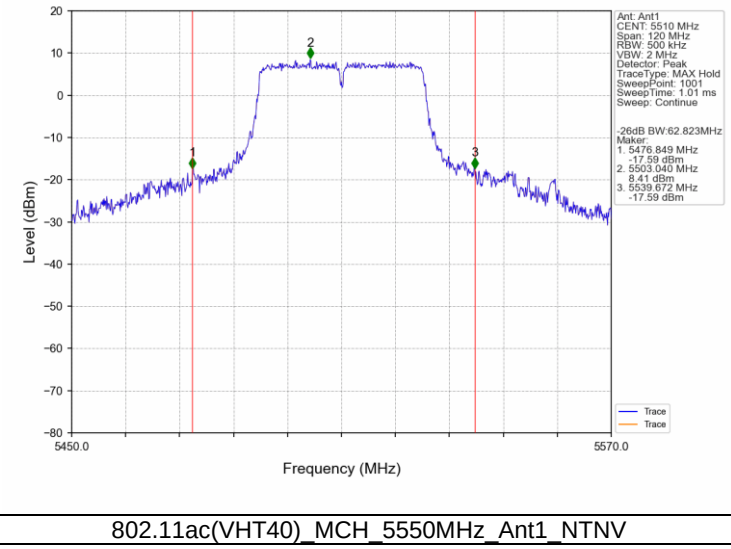
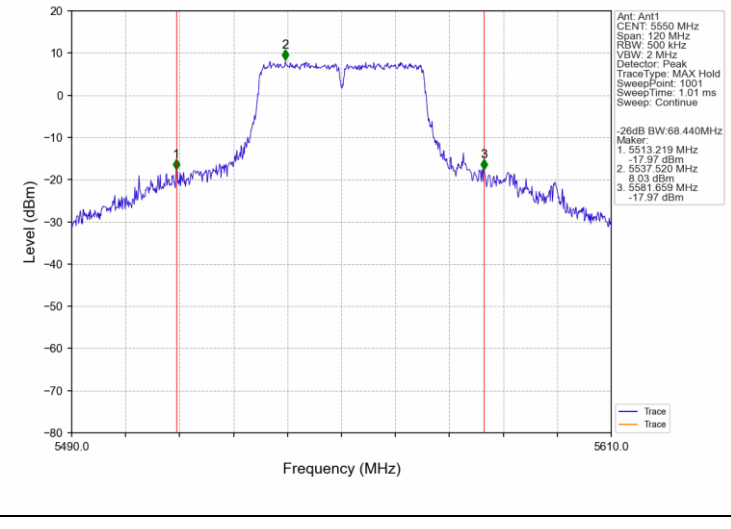


802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



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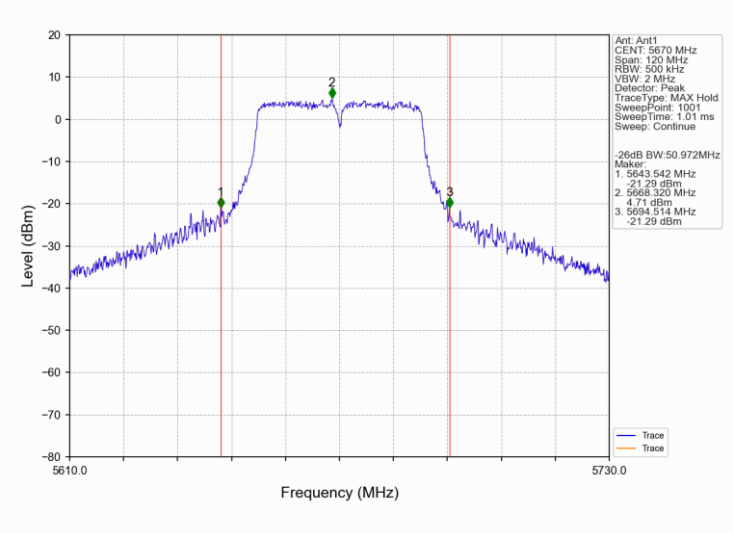
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



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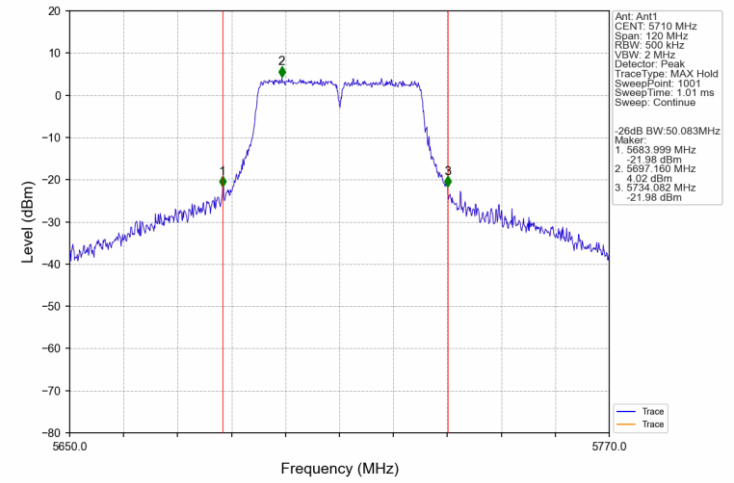

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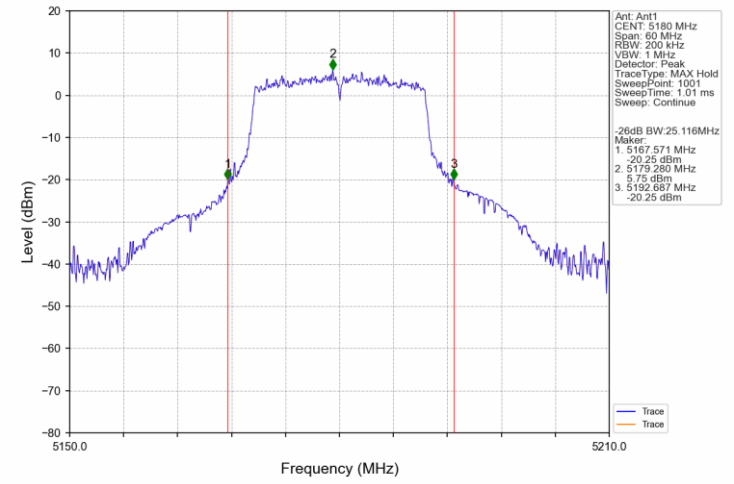

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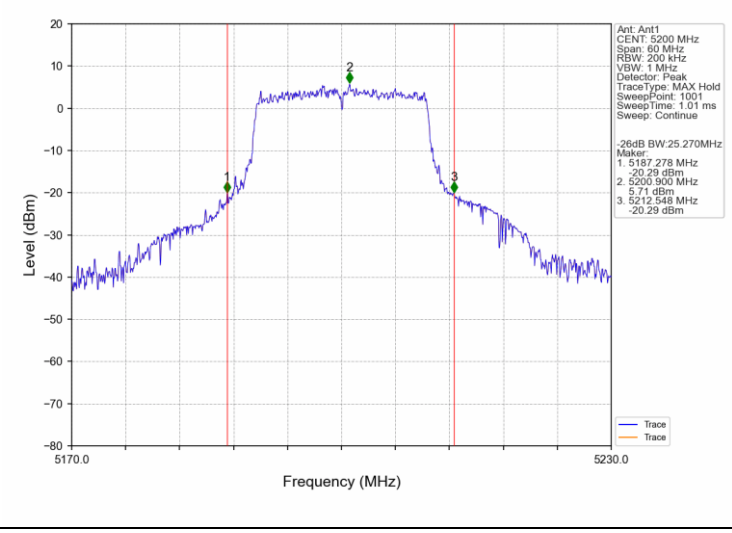
802.11ax(HEW20)_MCH_5200MHz_Ant1_NTNV



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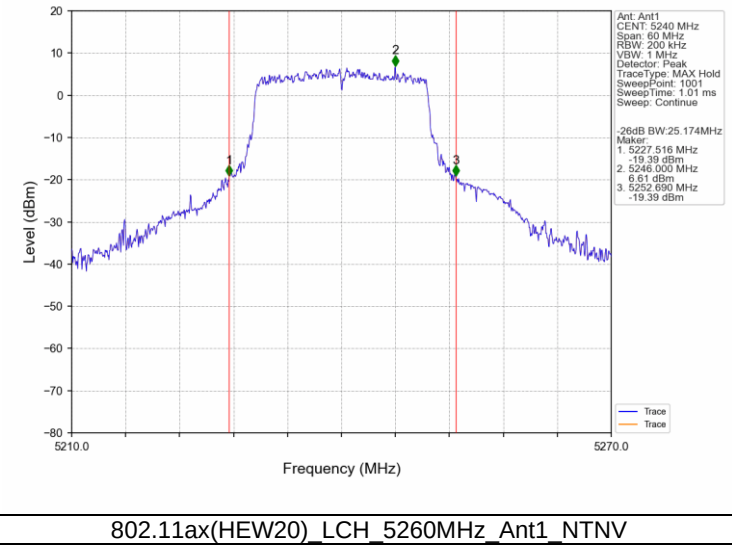

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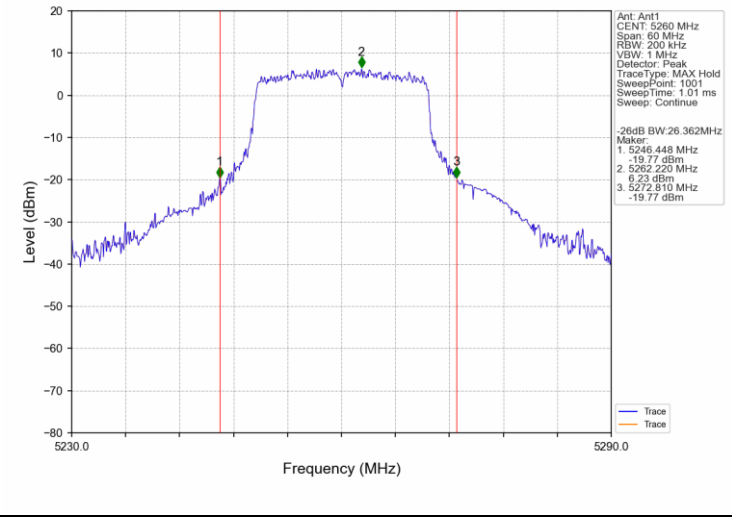

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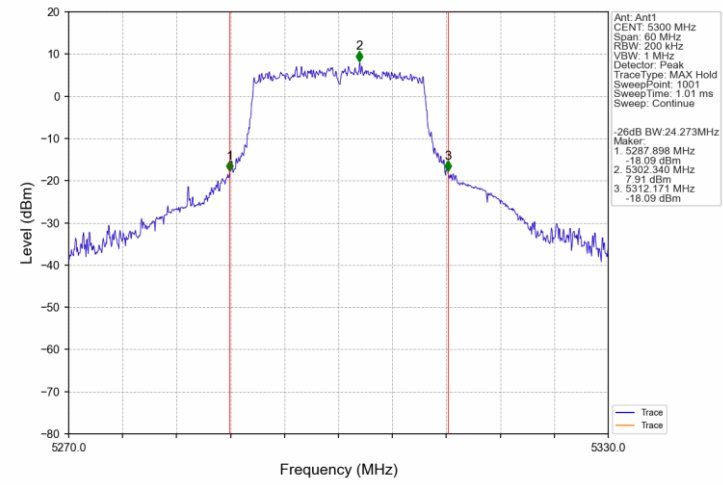

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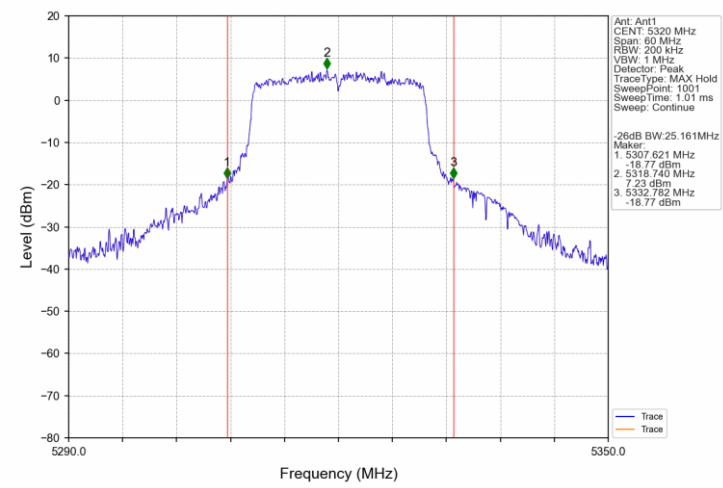
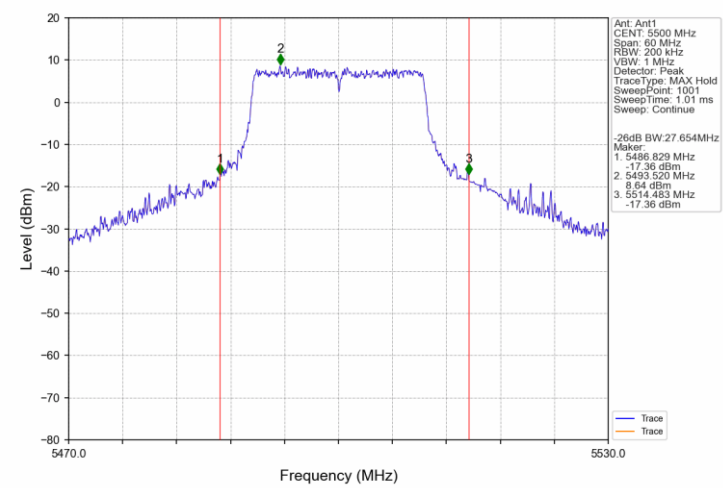


802.11ax(HEW20)_LCH_5500MHz_Ant1_NTNV



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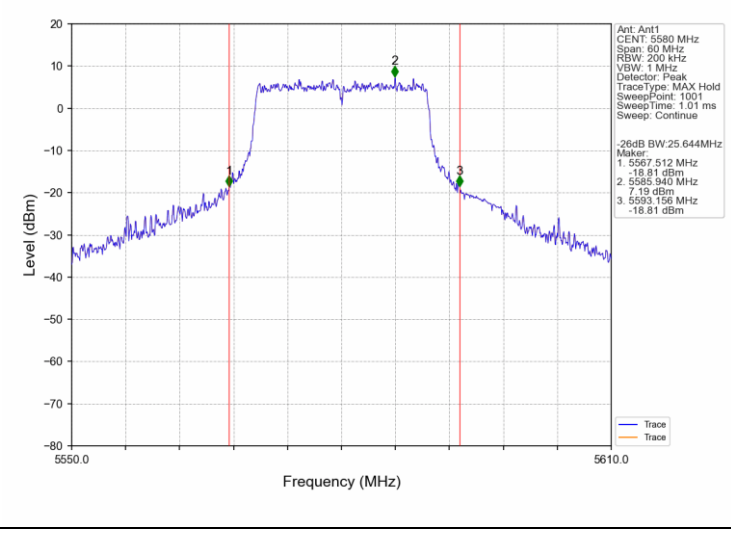
802.11ax(HEW20)_MCH_5580MHz_Ant1_NTNV



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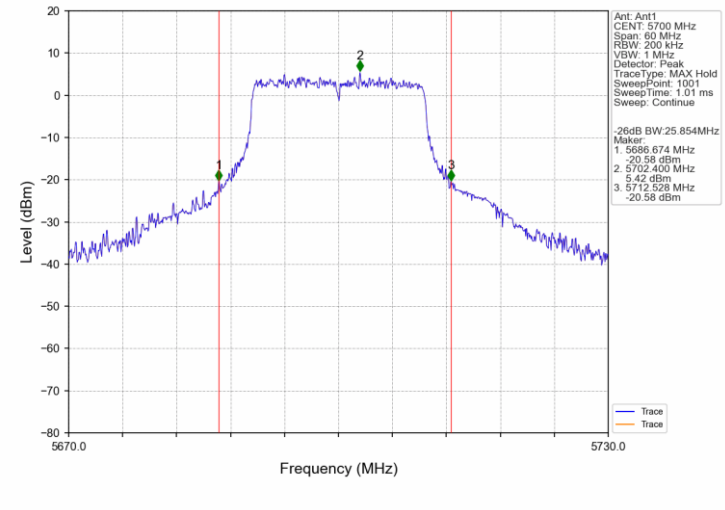

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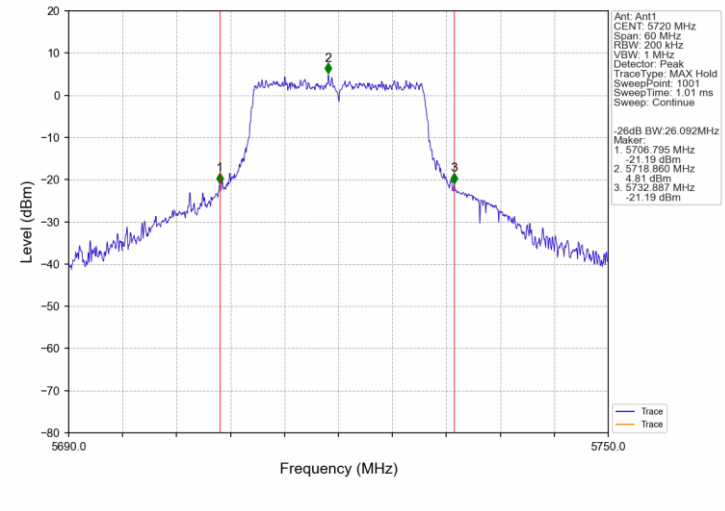

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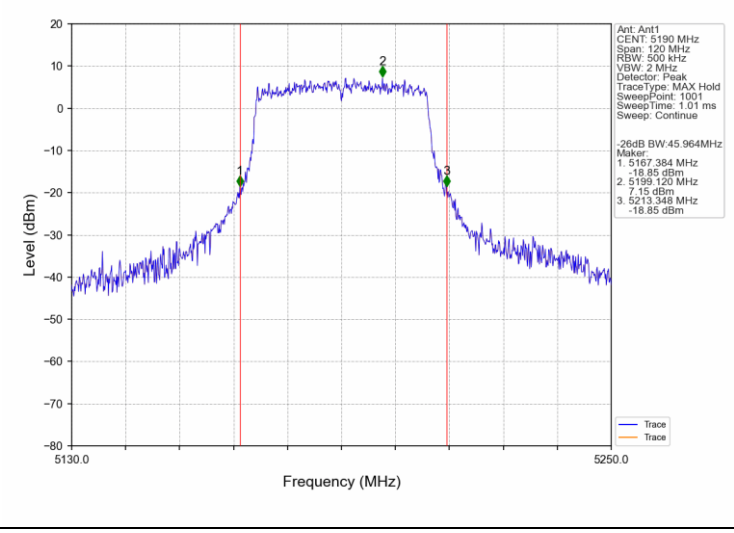
802.11ax(HEW40)_LCH_5190MHz_Ant1_NTNV



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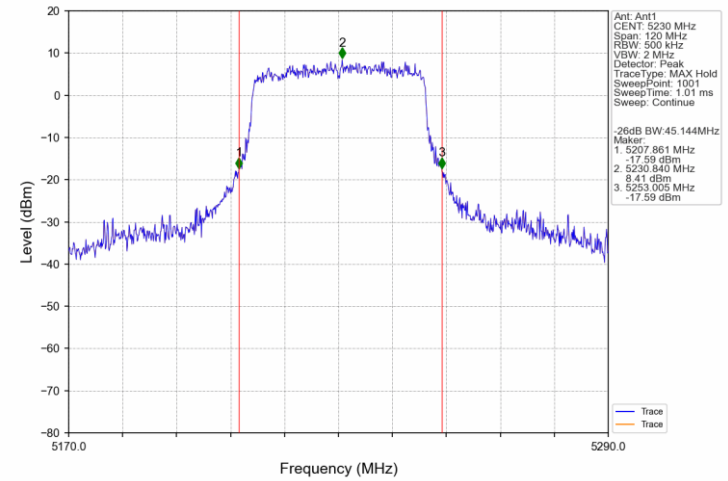

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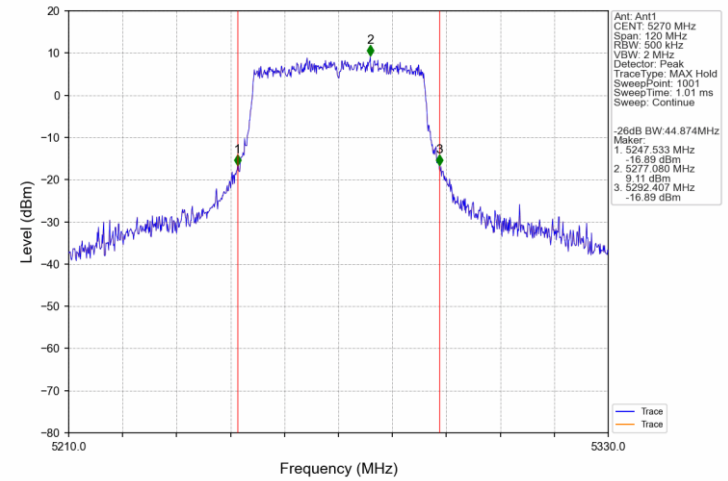

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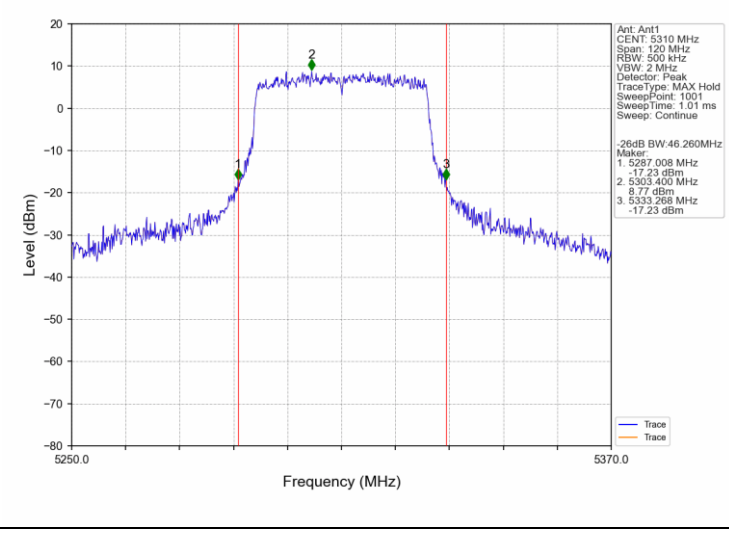
802.11ax(HEW40)_HCH_5310MHz_Ant1_NTNV



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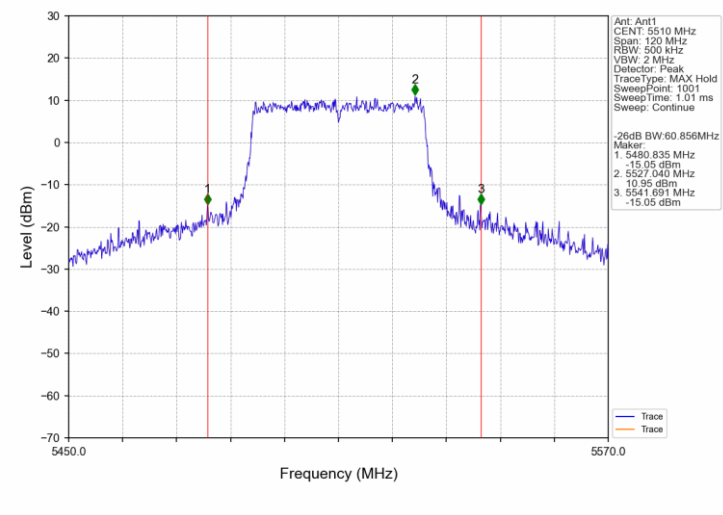

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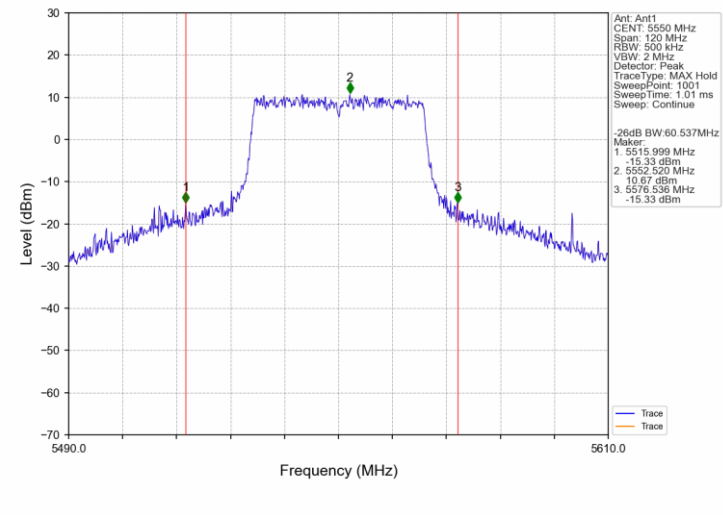

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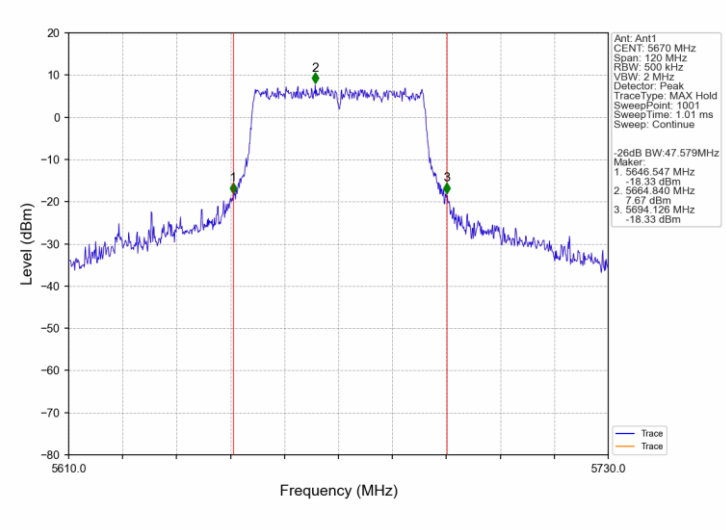
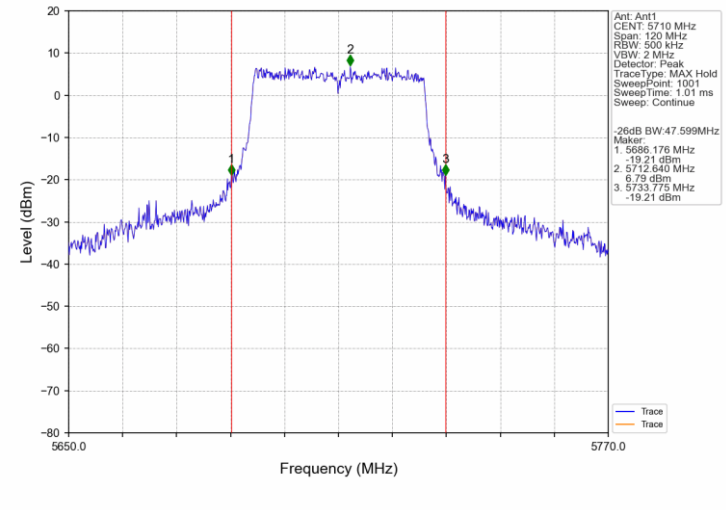


802.11ax(HEW40)_HCH_5710MHz_Ant1_NTNV



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9.3 Maximum Conducted Output Power

Test Method
According to KDB789033 D02

Test Method
According to C63.10, the EUT was placed on 0.8m height table, the RF output of EUT was connected to the test power meter by RF cable. The path loss was compensated to the results for each measurement.

1. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
   The EUT is configured to transmit continuously or to transmit with a consistent duty cycle.
   At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
2. If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in 12.2 in C63.10-2020.
3. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
4. Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25%).

Limits:
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26dB emission bandwidth in megahertz.
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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Mode	TX Type	Frequency (MHz)	RU	Maximum Average Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
802.11a	SISO	5180	/	14.93	<=23.98	Pass
		5200	/	15.49	<=23.98	Pass
		5240	/	**16.07**	<=23.98	Pass
		5260	/	16.49	<=23.98	Pass
		5300	/	16.89	<=23.98	Pass
		5320	/	**17.15**	<=23.98	Pass
		5500	/	18.39	<=23.98	Pass
		5580	/	13.02	<=23.98	Pass
		5700	/	14.70	<=23.98	Pass
		5745	/	13.37	<=30	Pass
		5785	/	12.87	<=30	Pass
		5825	/	12.46	<=30	Pass
		5720	/	13.38	<=23.98	Pass
802.11n (HT20)	SISO	5180	/	14.73	<=23.98	Pass
		5200	/	15.35	<=23.98	Pass
		5240	/	16.00	<=23.98	Pass
		5260	/	16.50	<=23.98	Pass
		5300	/	16.69	<=23.98	Pass
		5320	/	17.06	<=23.98	Pass
		5500	/	18.53	<=23.98	Pass
		5580	/	16.64	<=23.98	Pass
		5700	/	14.68	<=23.98	Pass
		5745	/	13.31	<=30	Pass
		5785	/	12.92	<=30	Pass
		5825	/	12.39	<=30	Pass
		5720	/	14.07	<=23.98	Pass
802.11n (HT40)	SISO	5190	/	15.30	<=23.98	Pass
		5230	/	15.96	<=23.98	Pass
		5270	/	16.61	<=23.98	Pass
		5310	/	16.99	<=23.98	Pass
		5510	/	18.56	<=23.98	Pass
		5550	/	18.48	<=23.98	Pass
		5670	/	15.44	<=23.98	Pass
		5755	/	13.30	<=30	Pass
		5795	/	12.60	<=30	Pass
		5710	/	13.71	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	/	14.90	<=23.98	Pass
		5200	/	15.40	<=23.98	Pass
		5240	/	15.99	<=23.98	Pass
		5260	/	12.83	<=23.98	Pass
		5300	/	16.67	<=23.98	Pass
		5320	/	17.10	<=23.98	Pass
		5500	/	18.48	<=23.98	Pass
		5580	/	16.71	<=23.98	Pass
		5700	/	14.64	<=23.98	Pass
		5745	/	13.34	<=30	Pass
		5785	/	12.76	<=30	Pass
		5825	/	12.46	<=30	Pass
		5720	/	13.10	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	/	15.34	<=23.98	Pass
		5230	/	15.98	<=23.98	Pass
		5270	/	16.62	<=23.98	Pass
		5310	/	17.03	<=23.98	Pass
		5510	/	18.60	<=23.98	Pass
		5550	/	18.54	<=23.98	Pass
		5670	/	15.42	<=23.98	Pass
		5755	/	13.43	<=30	Pass
		5795	/	12.55	<=30	Pass
		5710	/	13.25	<=23.98	Pass
802.11ax (HEW20)	SISO	5180	/	14.81	<=23.98	Pass
		5200	/	15.35	<=23.98	Pass

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		5240	/	15.97	<=23.98	Pass
		5260	/	16.44	<=23.98	Pass
		5300	/	16.76	<=23.98	Pass
		5320	/	17.04	<=23.98	Pass
		5500	/	18.55	<=23.98	Pass
		5580	/	16.75	<=23.98	Pass
		5700	/	14.72	<=23.98	Pass
		5745	/	13.37	<=30	Pass
		5785	/	12.92	<=30	Pass
		5825	/	12.51	<=30	Pass
		5720	/	12.95	<=23.98	Pass
802.11ax (HEW40)	SISO	5190	/	15.28	<=23.98	Pass
		5230	/	15.89	<=23.98	Pass
		5270	/	16.60	<=23.98	Pass
		5310	/	17.03	<=23.98	Pass
		5510	/	**18.64**	<=23.98	Pass
		5550	/	18.59	<=23.98	Pass
		5670	/	15.42	<=23.98	Pass
		5755	/	13.41	<=30	Pass
		5795	/	12.60	<=30	Pass
		5710	/	12.80	<=23.98	Pass

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9.4 Maximum Power Spectral Density

Test Method (Method SA-2 in C63.10-2020)
The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement. (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. Measure the duty cycle.
2. Set span to encompass the entire emission bandwidth (EBW) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2 Span / RBW.
6. Sweep time = auto.
7. Detector = RMS
8. Trace average at least 100 traces in power averaging mode.
9. Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

Limit:
The maximum power spectral density shall not exceed 11dBm for the 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725 GHz Band in any 1 megahertz band.
For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

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Mode	TX Type	Frequency (MHz)	RU	Maximum PSD (dBm/MHz)		Verdict
				ANT1	Limit	
802.11a	SISO	5180	/	4.34	<=11	Pass
		5200	/	3.81	<=11	Pass
		5240	/	6.00	<=11	Pass
		5260	/	5.99	<=11	Pass
		5300	/	5.85	<=11	Pass
		5320	/	7.08	<=11	Pass
		5500	/	7.62	<=11	Pass
		5580	/	10.85	<=11	Pass
		5700	/	3.82	<=11	Pass
		5720	/	3.06	<=11	Pass
802.11n (HT20)	SISO	5180	/	3.93	<=11	Pass
		5200	/	3.91	<=11	Pass
		5240	/	5.06	<=11	Pass
		5260	/	5.31	<=11	Pass
		5300	/	5.41	<=11	Pass
		5320	/	6.11	<=11	Pass
		5500	/	7.78	<=11	Pass
		5580	/	5.25	<=11	Pass
		5700	/	4.00	<=11	Pass
		5720	/	3.09	<=11	Pass
802.11n (HT40)	SISO	5190	/	1.40	<=11	Pass
		5230	/	2.10	<=11	Pass
		5270	/	2.82	<=11	Pass
		5310	/	3.08	<=11	Pass
		5510	/	5.13	<=11	Pass
		5550	/	4.56	<=11	Pass
		5670	/	1.83	<=11	Pass
		5710	/	0.80	<=11	Pass
802.11ac (VHT20)	SISO	5180	/	4.15	<=11	Pass
		5200	/	4.38	<=11	Pass
		5240	/	5.26	<=11	Pass
		5260	/	9.92	<=11	Pass
		5300	/	5.79	<=11	Pass
		5320	/	5.70	<=11	Pass
		5500	/	7.27	<=11	Pass
		5580	/	5.86	<=11	Pass
		5700	/	3.93	<=11	Pass
		5720	/	2.79	<=11	Pass
802.11ac (VHT40)	SISO	5190	/	1.27	<=11	Pass
		5230	/	0.94	<=11	Pass
		5270	/	2.83	<=11	Pass
		5310	/	2.97	<=11	Pass
		5510	/	4.15	<=11	Pass
		5550	/	3.91	<=11	Pass
		5670	/	0.68	<=11	Pass
		5710	/	-0.32	<=11	Pass
802.11ax (HEW20)	SISO	5180	/	3.80	<=11	Pass
		5200	/	3.71	<=11	Pass
		5240	/	4.76	<=11	Pass
		5260	/	4.59	<=11	Pass
		5300	/	5.54	<=11	Pass
		5320	/	5.19	<=11	Pass
		5500	/	7.13	<=11	Pass
		5580	/	5.23	<=11	Pass
		5700	/	2.72	<=11	Pass
		5720	/	2.11	<=11	Pass
802.11ax (HEW40)	SISO	5190	/	1.05	<=11	Pass
		5230	/	2.45	<=11	Pass
		5270	/	2.75	<=11	Pass
		5310	/	2.68	<=11	Pass
		5510	/	4.75	<=11	Pass

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		5550	/	5.06	<=11	Pass
		5670	/	1.52	<=11	Pass
		5710	/	0.75	<=11	Pass

PSD-Band3:

Mode	TX Type	Frequency (MHz)	RU	Maximum PSD (dBm/500kHz)		Verdict
				ANT1	Limit	
802.11a	SISO	5745	/	-0.78	<=30	Pass
		5785	/	-0.52	<=30	Pass
		5825	/	-2.42	<=30	Pass
		5720	/	0.36	<=30	Pass
802.11n (HT20)	SISO	5745	/	-1.10	<=30	Pass
		5785	/	-1.17	<=30	Pass
		5825	/	-1.97	<=30	Pass
		5720	/	0.14	<=30	Pass
802.11n (HT40)	SISO	5755	/	-3.62	<=30	Pass
		5795	/	-2.99	<=30	Pass
		5710	/	-2.85	<=30	Pass
802.11ac (VHT20)	SISO	5745	/	-0.86	<=30	Pass
		5785	/	-1.08	<=30	Pass
		5825	/	-1.64	<=30	Pass
		5720	/	-0.71	<=30	Pass
802.11ac (VHT40)	SISO	5755	/	-4.28	<=30	Pass
		5795	/	-4.34	<=30	Pass
		5710	/	-3.05	<=30	Pass
802.11ax (HEW20)	SISO	5745	/	-1.56	<=30	Pass
		5785	/	-1.59	<=30	Pass
		5825	/	-3.05	<=30	Pass
		5720	/	-0.45	<=30	Pass
802.11ax (HEW40)	SISO	5755	/	-3.34	<=30	Pass
		5795	/	-3.60	<=30	Pass
		5710	/	-4.07	<=30	Pass

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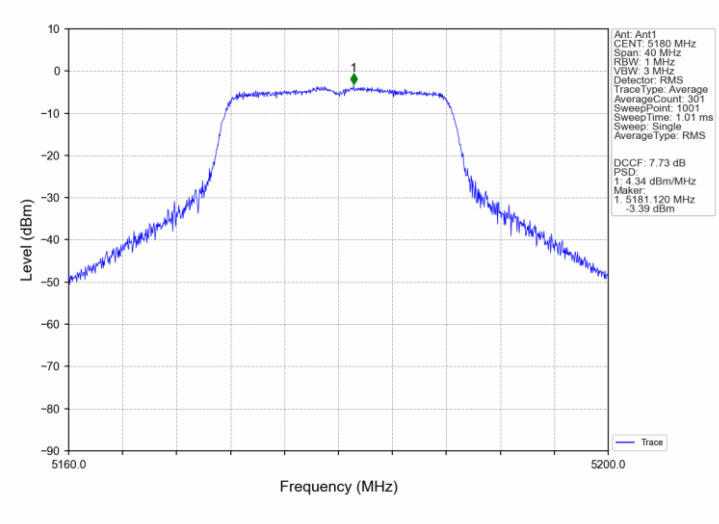
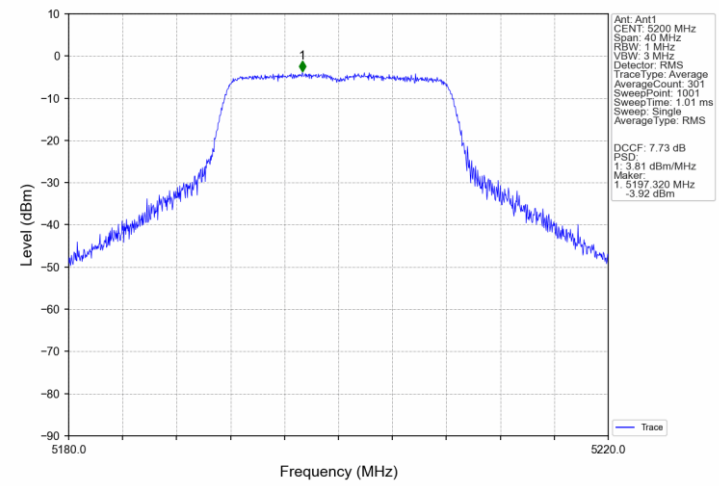
802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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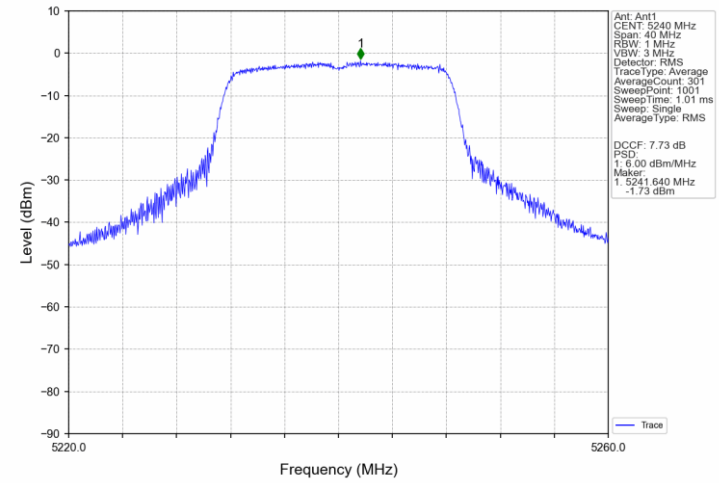
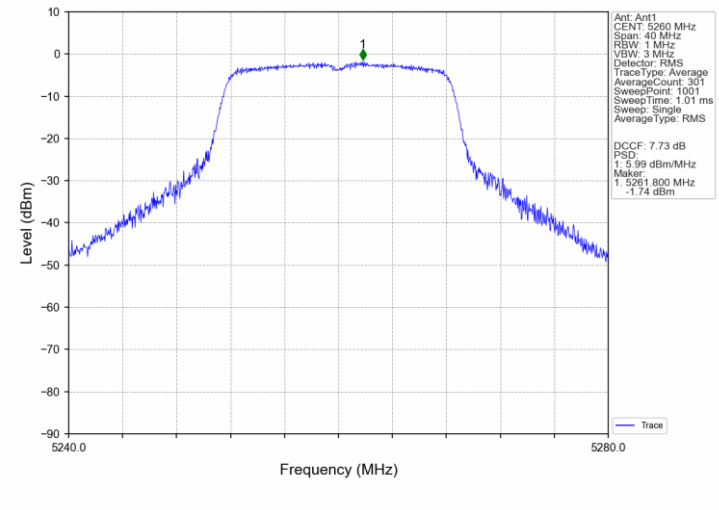


802.11a_LCH_5260MHz_Ant1_NTNV



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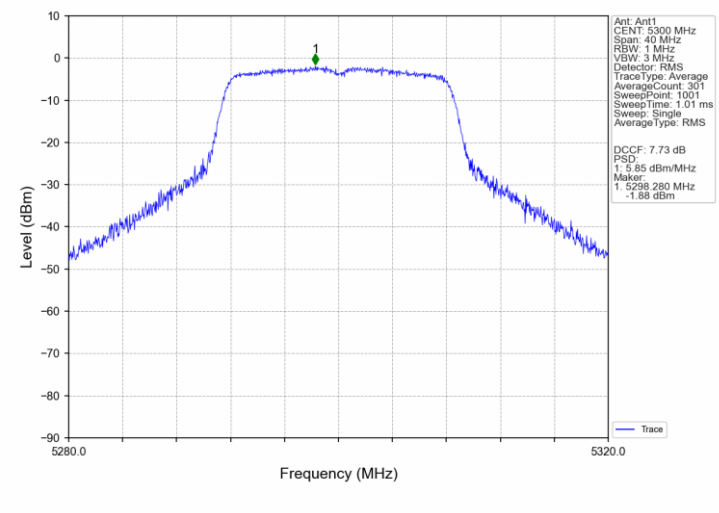
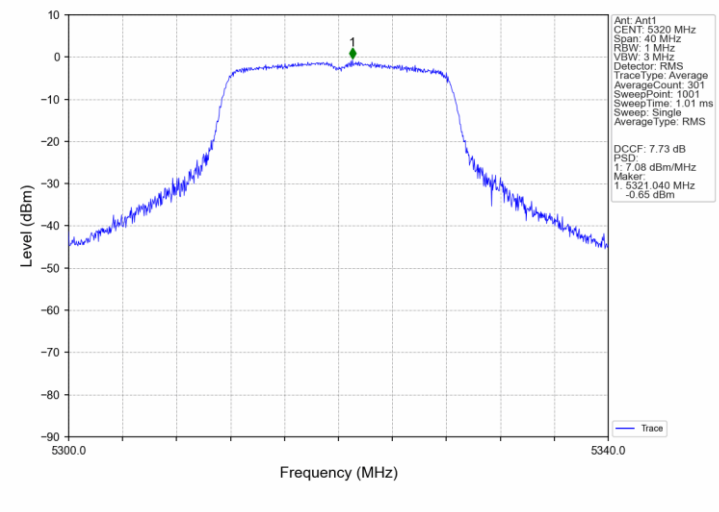


802.11a_HCH_5320MHz_Ant1_NTNV



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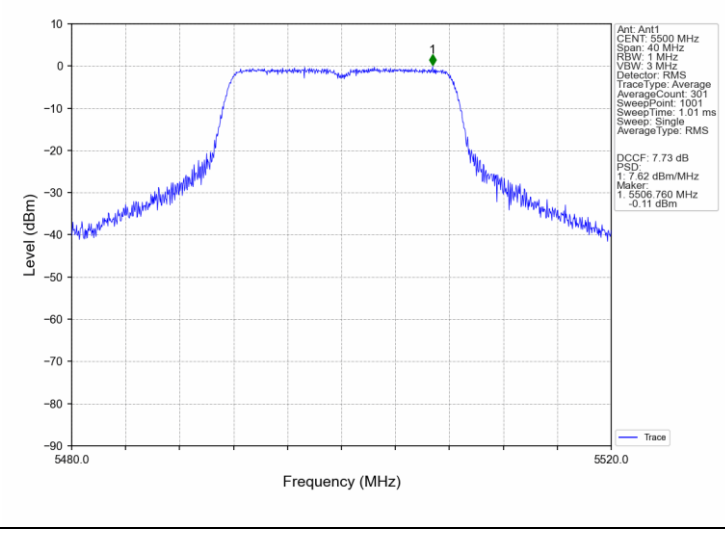

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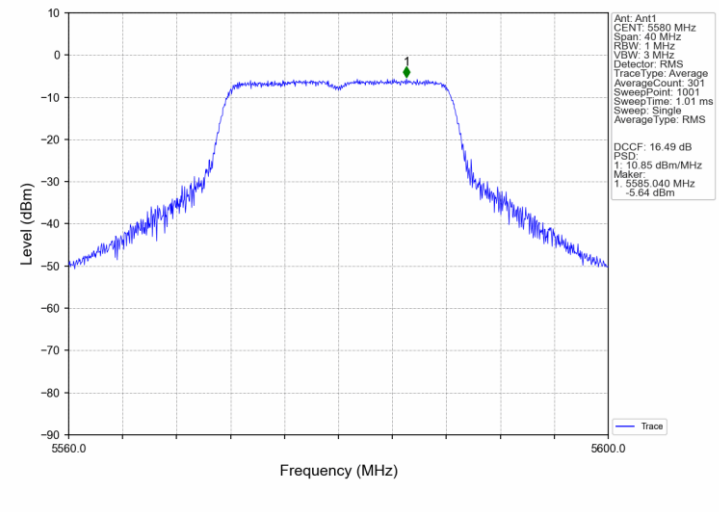
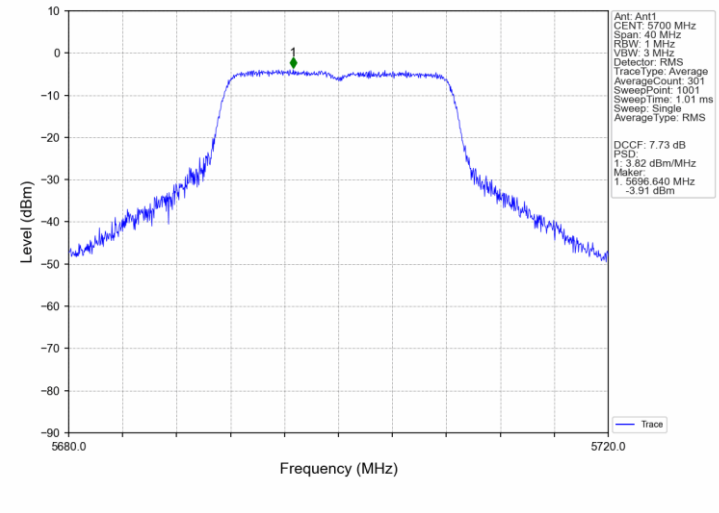


802.11a_HCH_5700MHz_Ant1_NTNV



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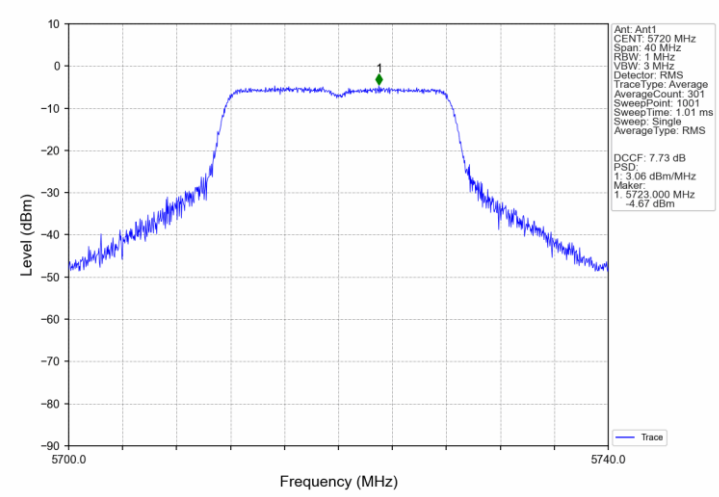
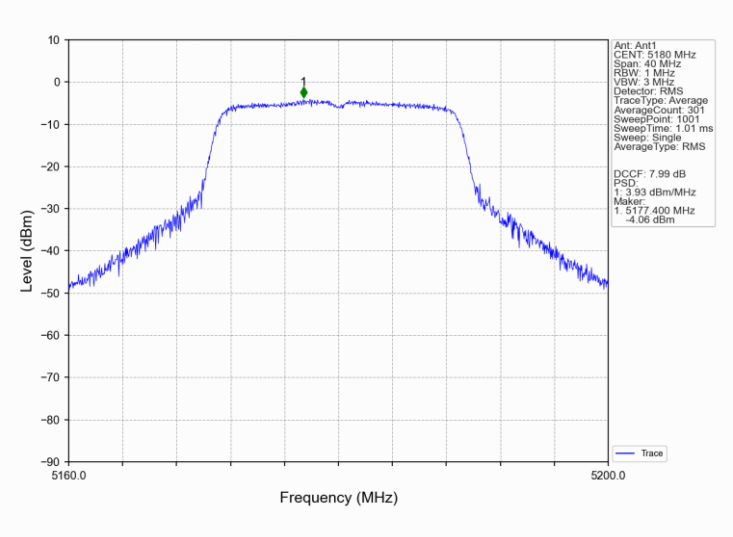
802.11a_HCH_5720MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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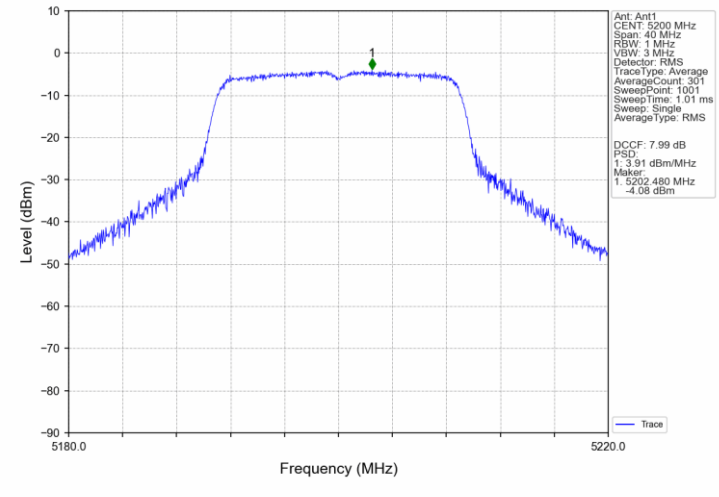

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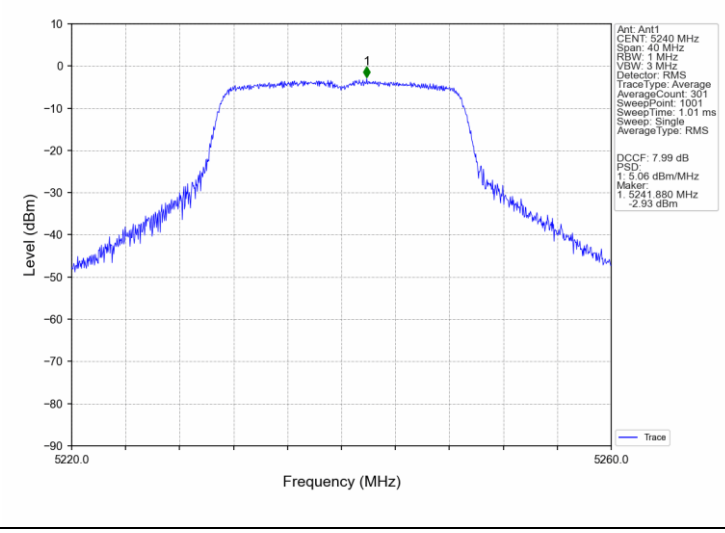
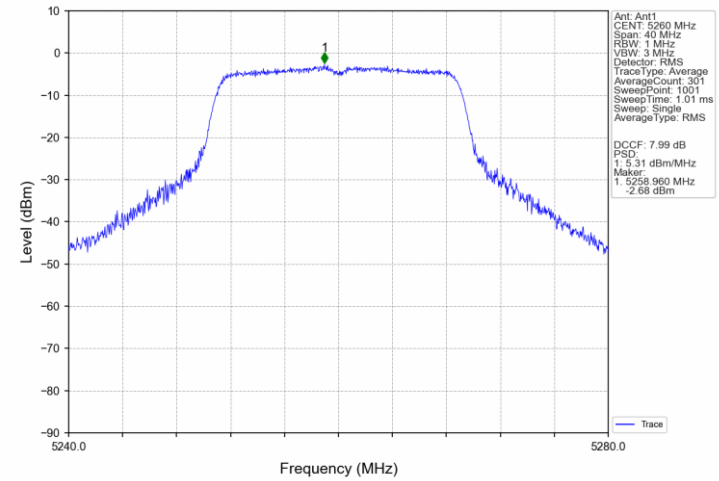
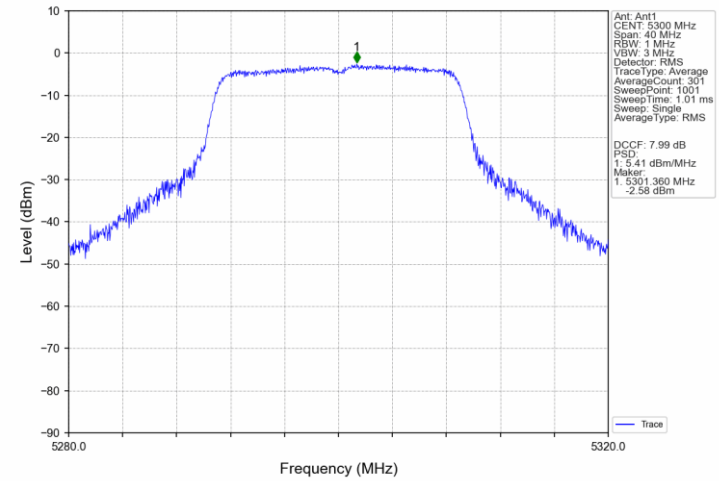
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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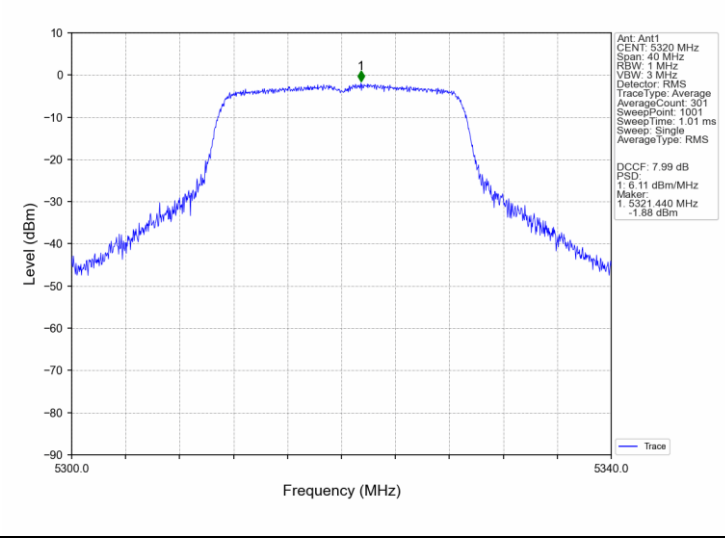
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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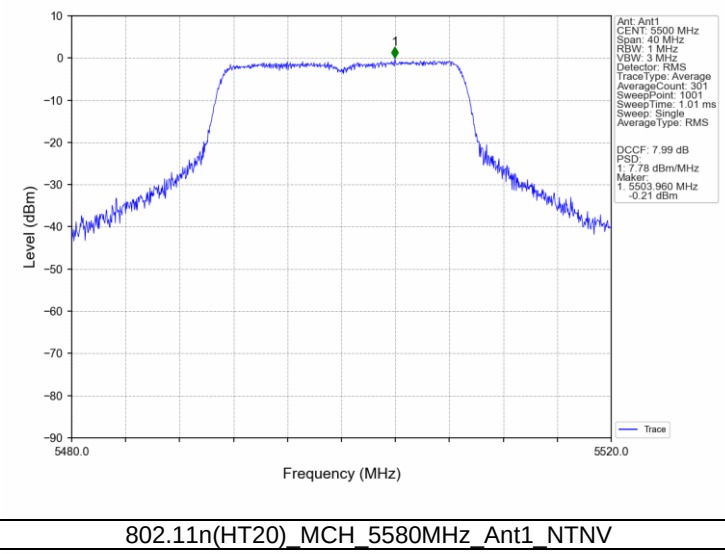

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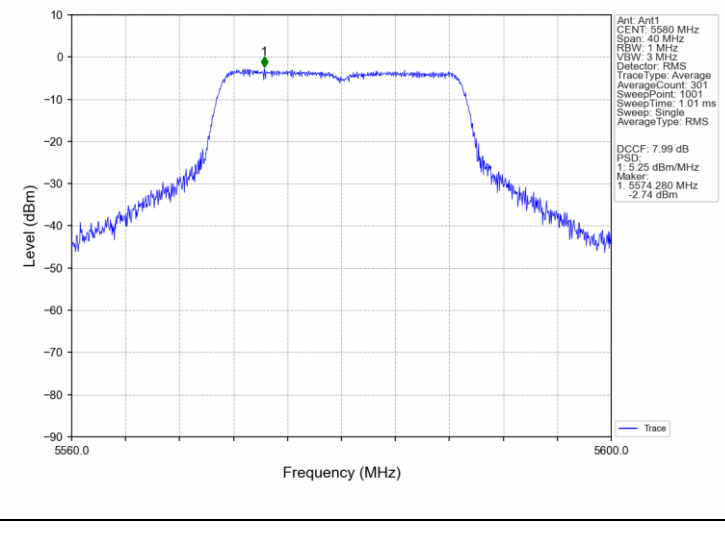

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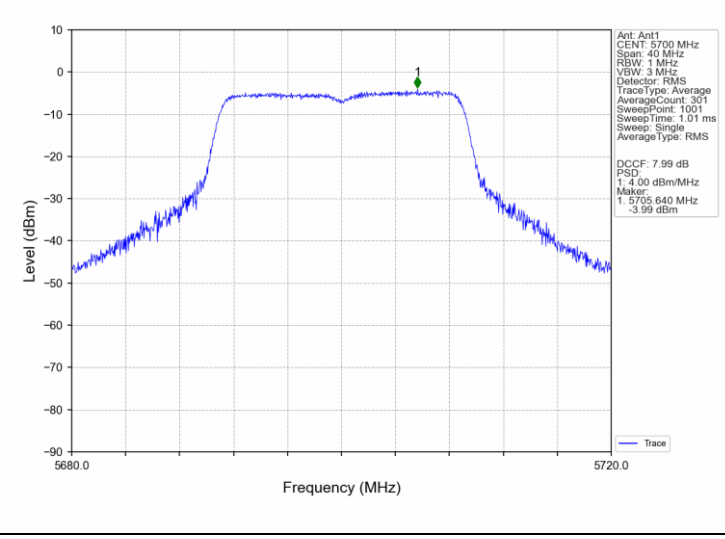
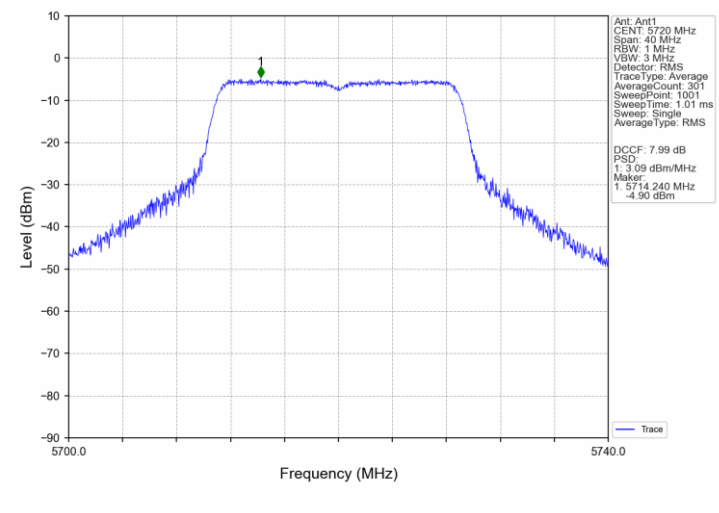
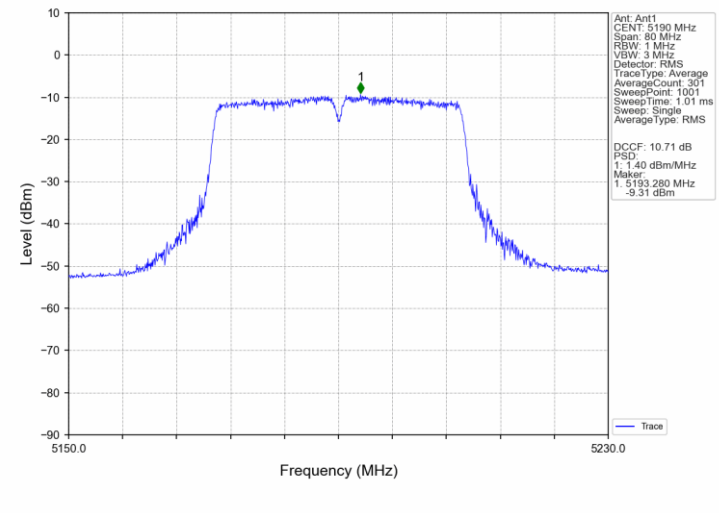
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_HCH_5720MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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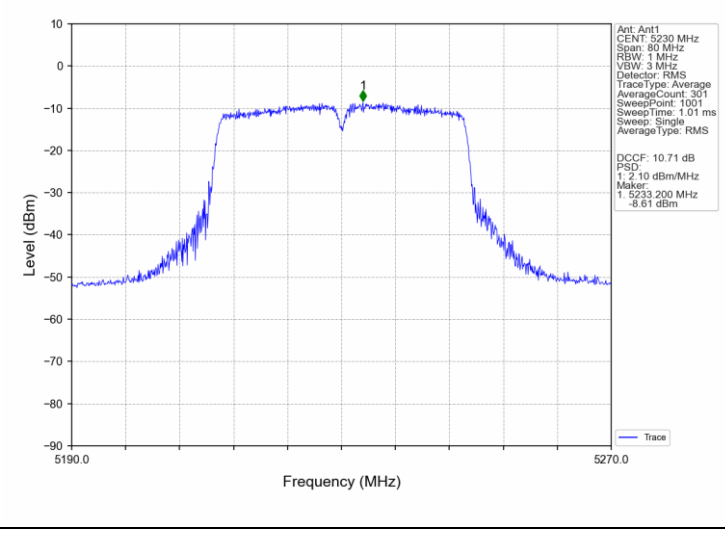
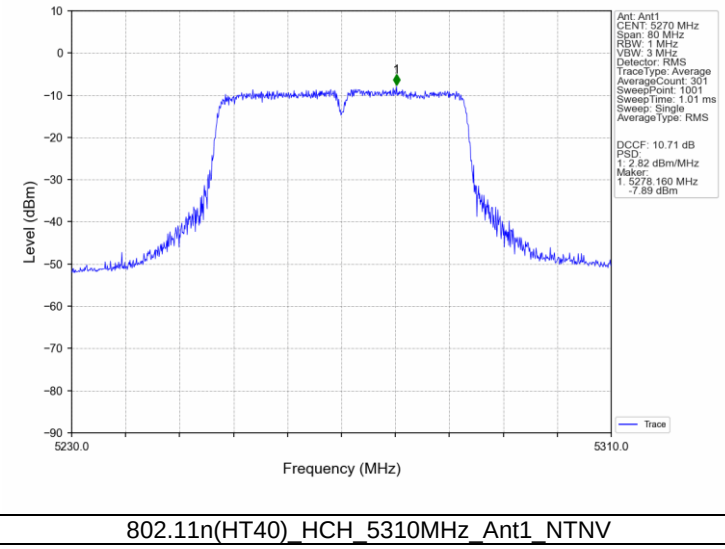
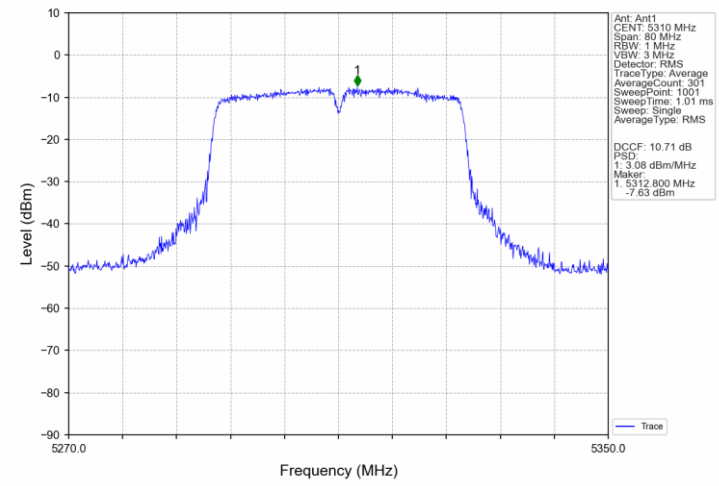
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



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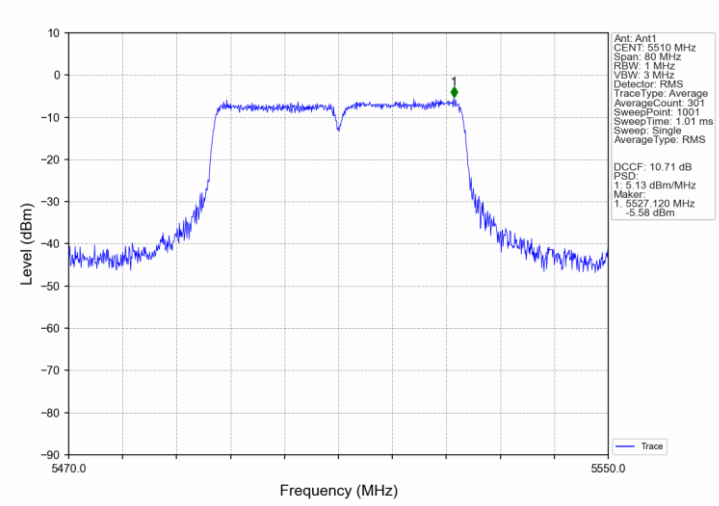

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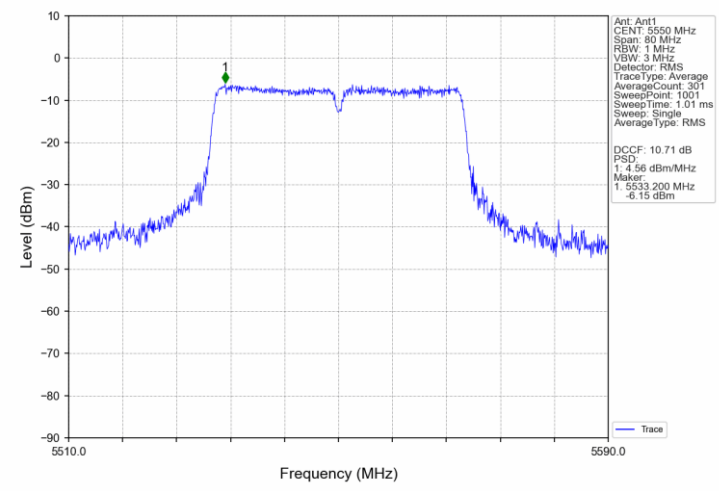

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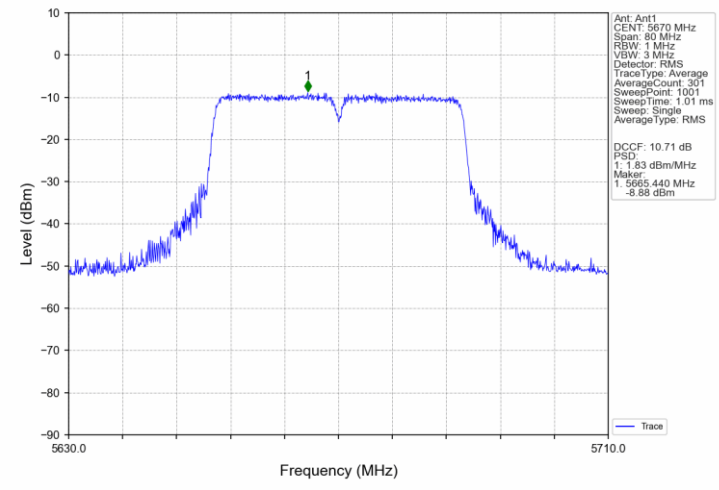

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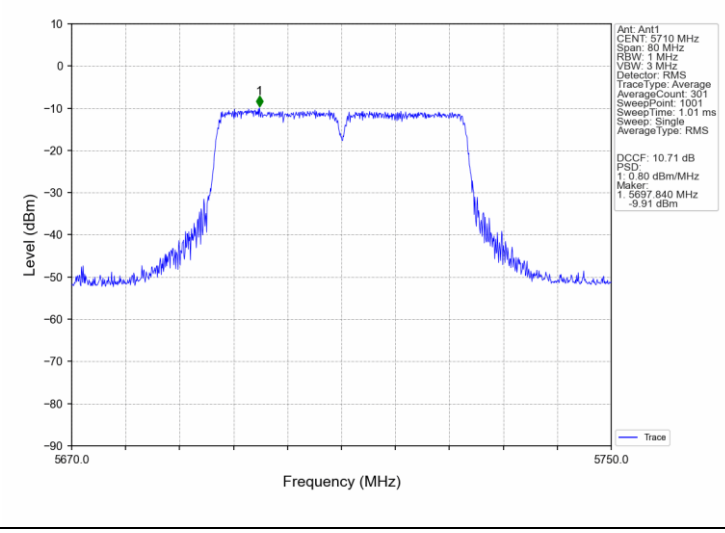
802.11n(HT40)_HCH_5710MHz_Ant1_NTNV



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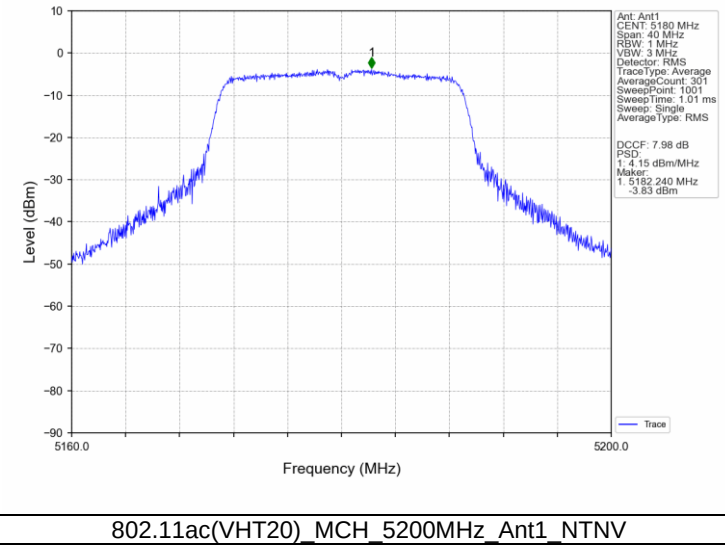

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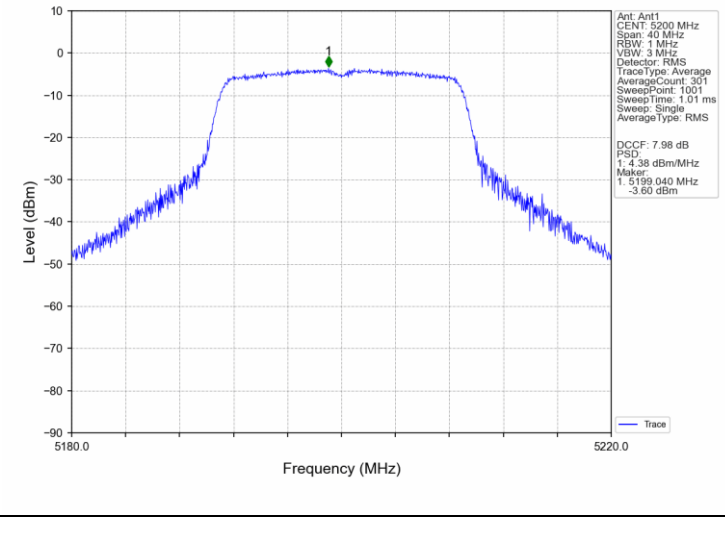

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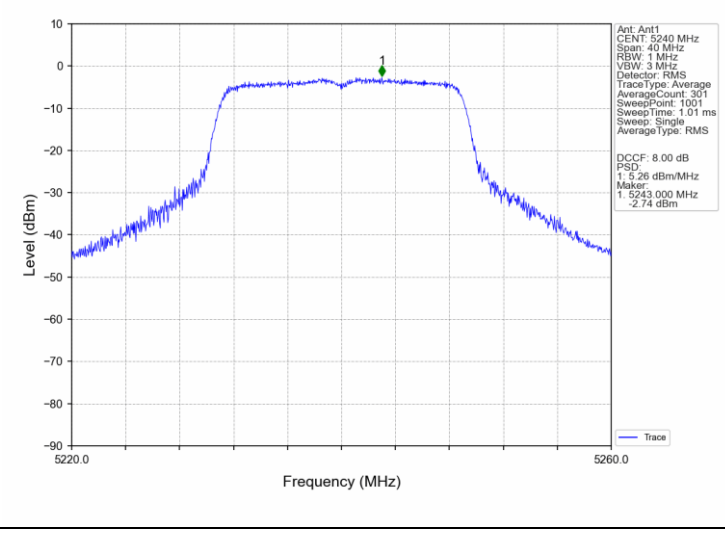

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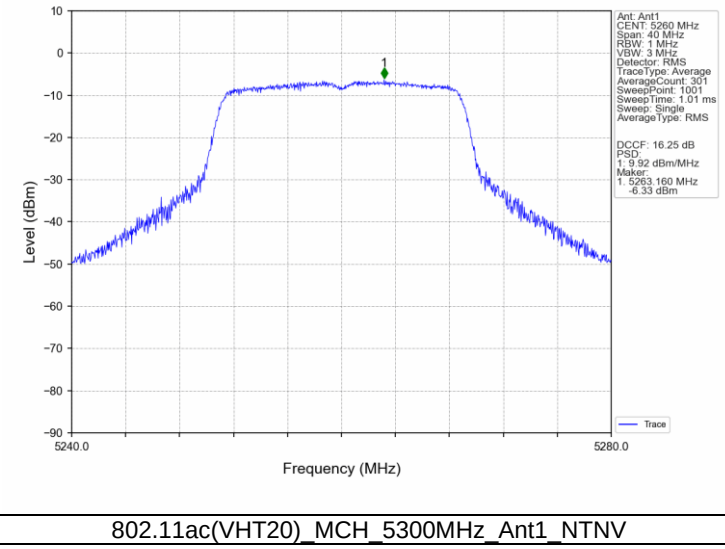
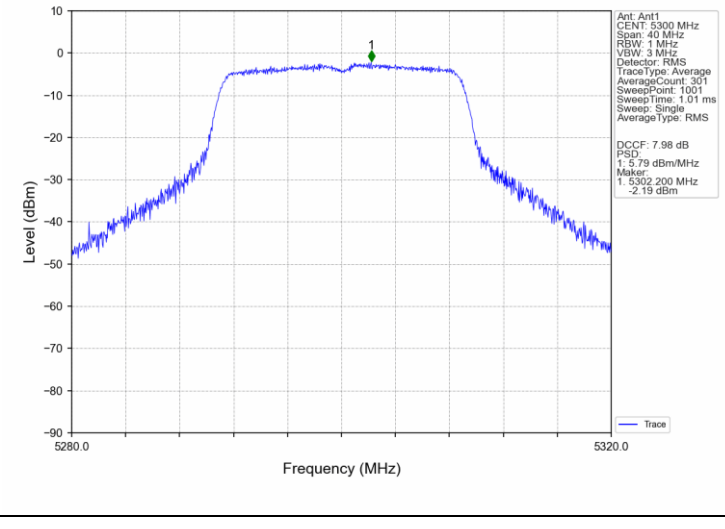
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV