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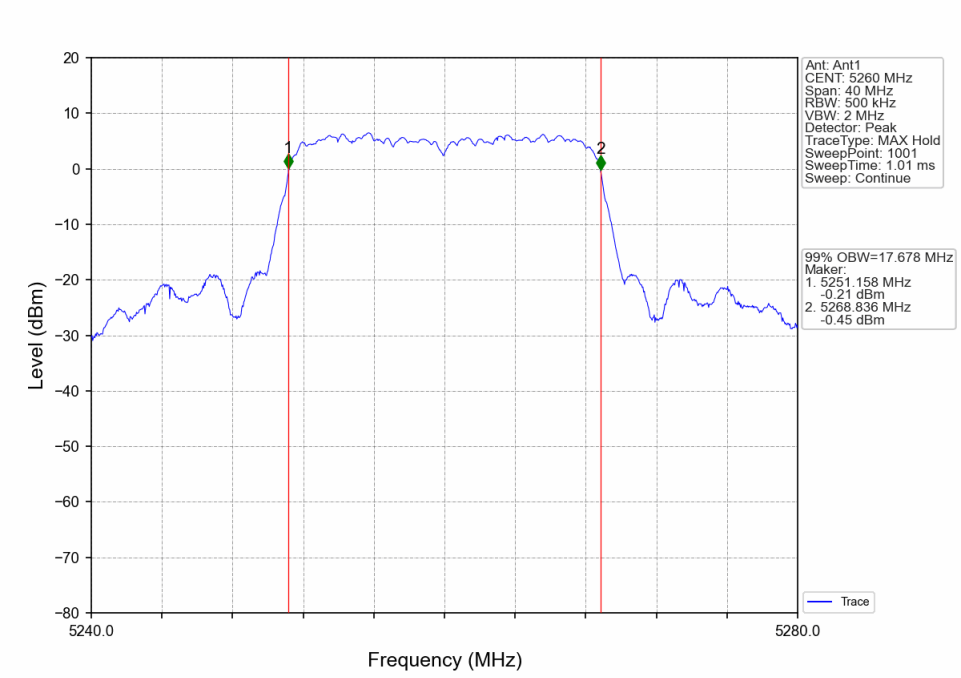

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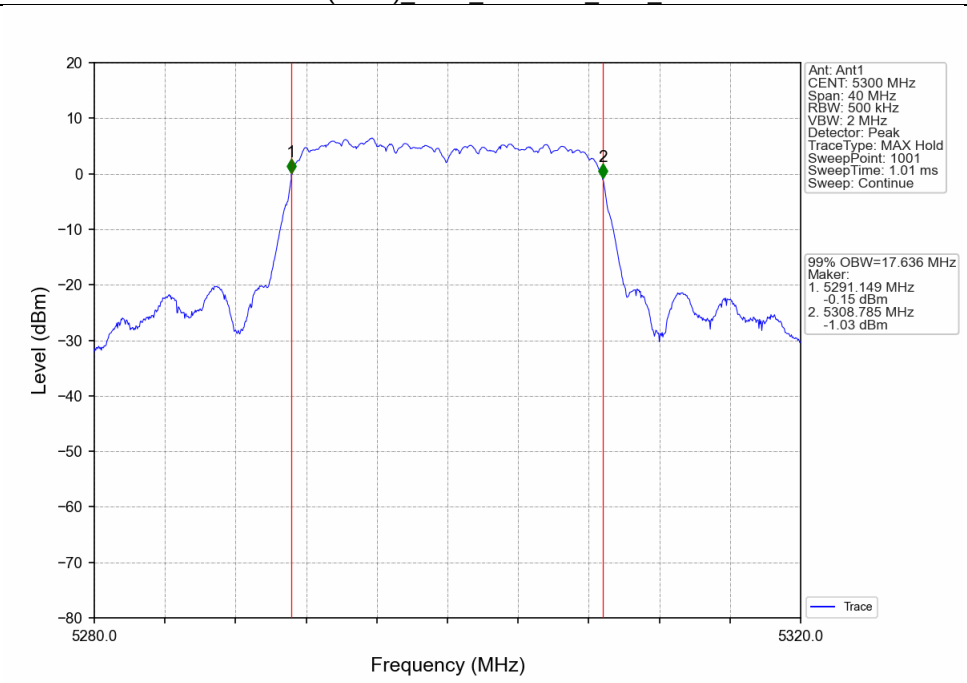

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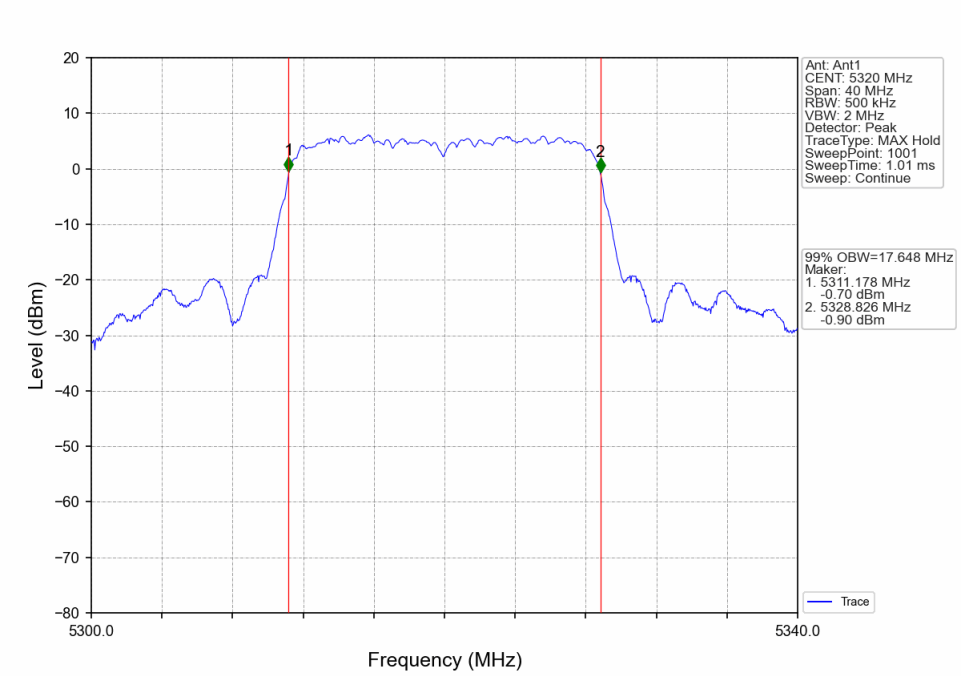
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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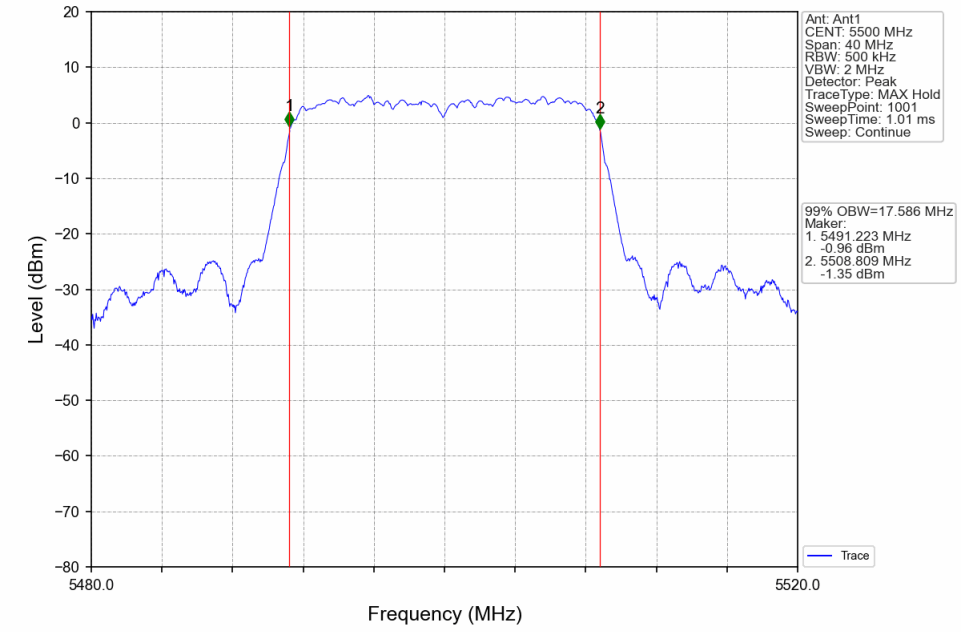

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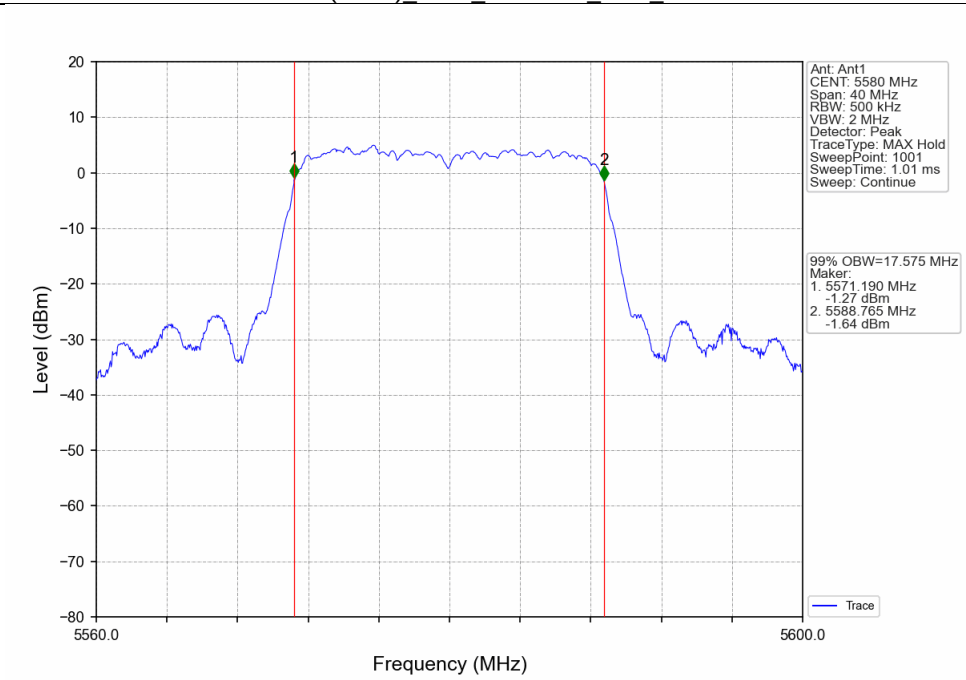
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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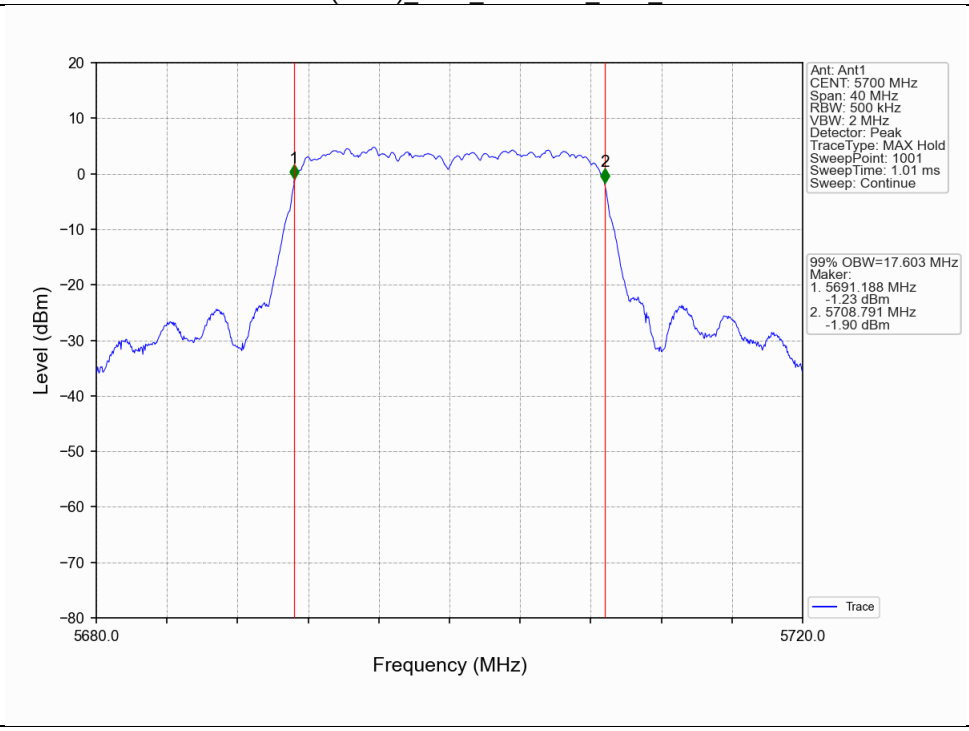

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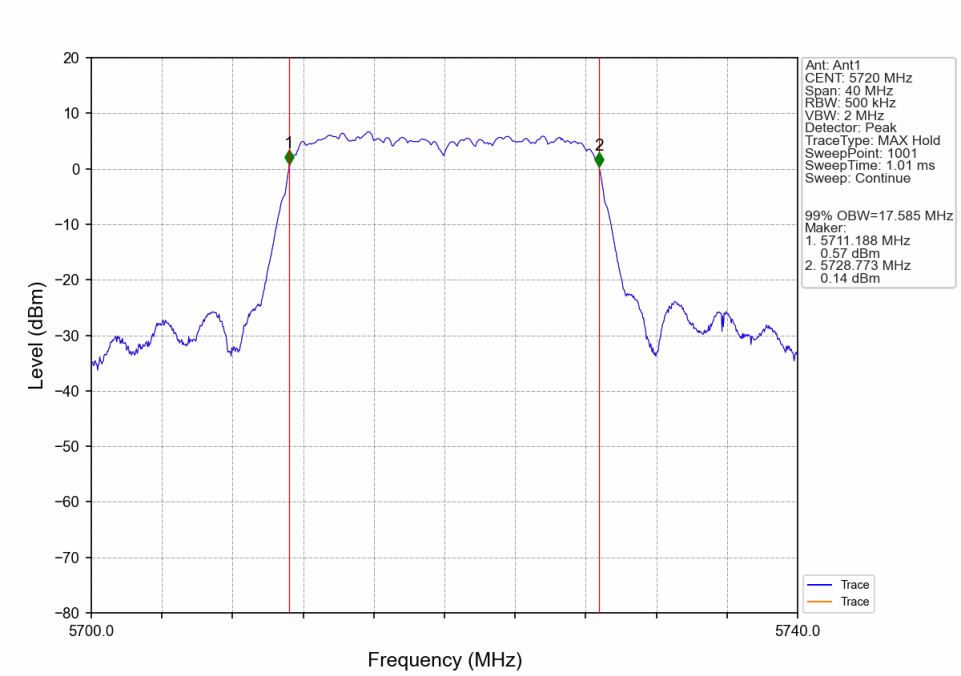
802.11n(HT20)_HCH_5720MHz_Ant1_NTNV



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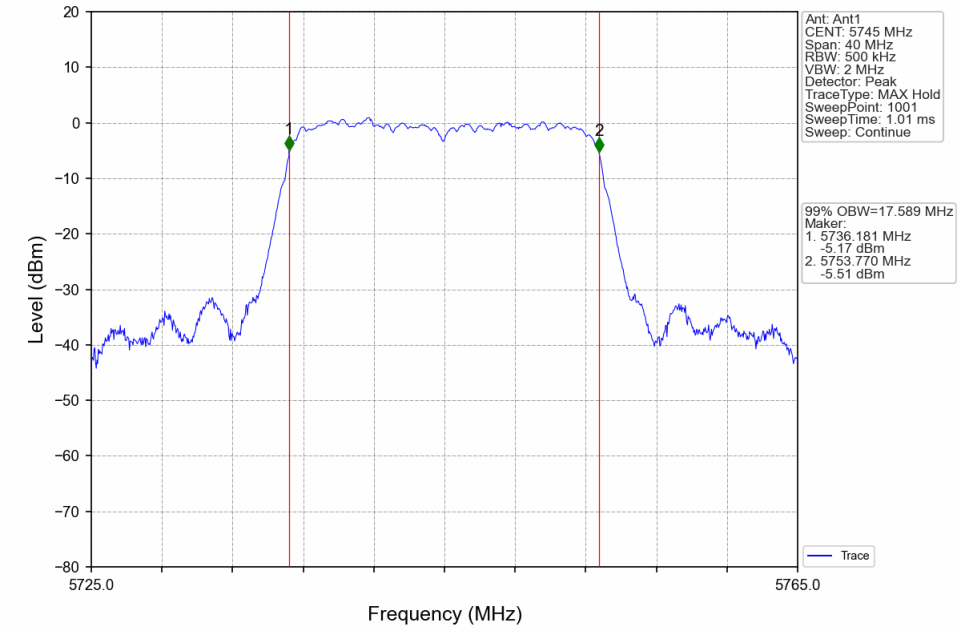

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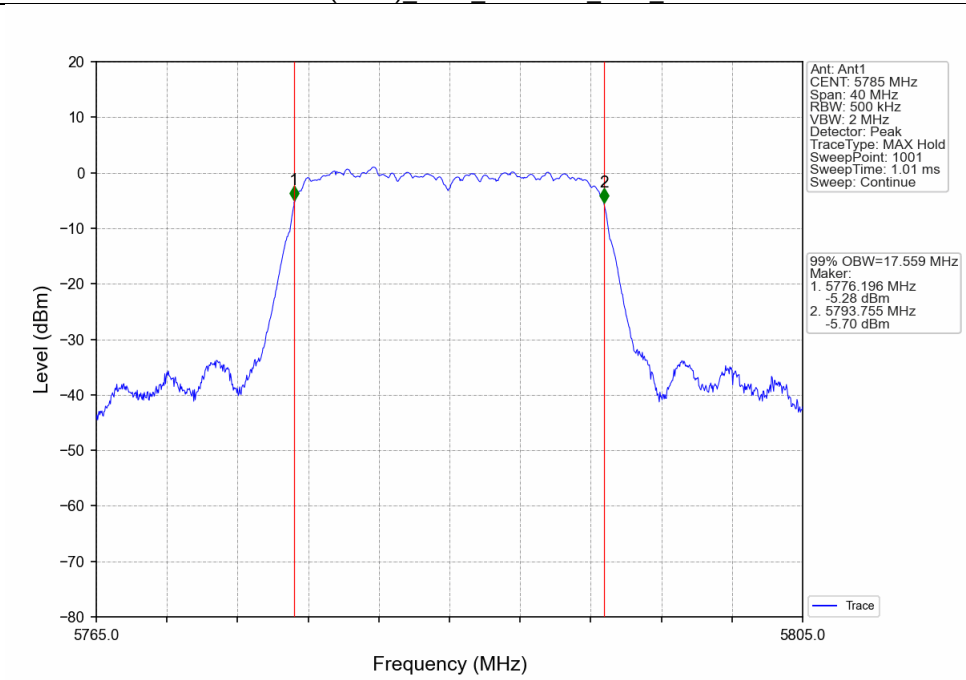
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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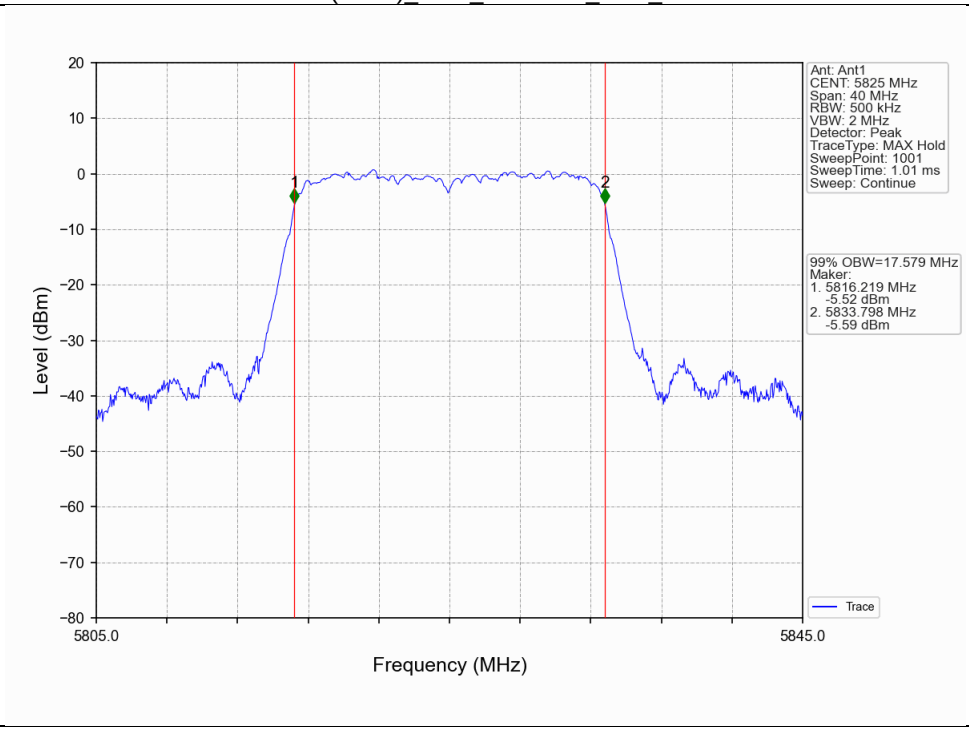

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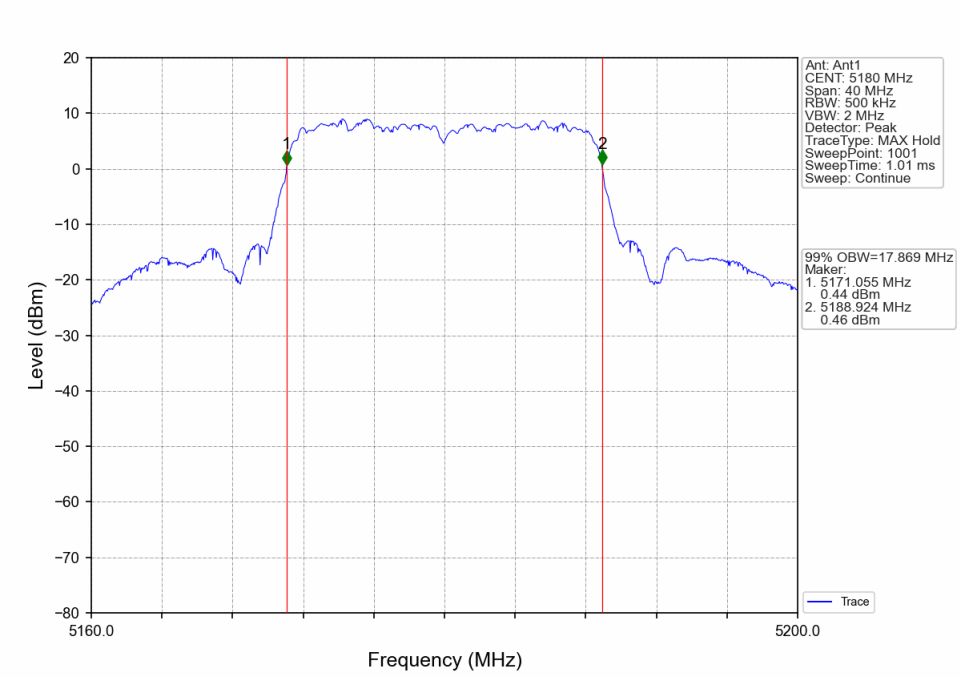
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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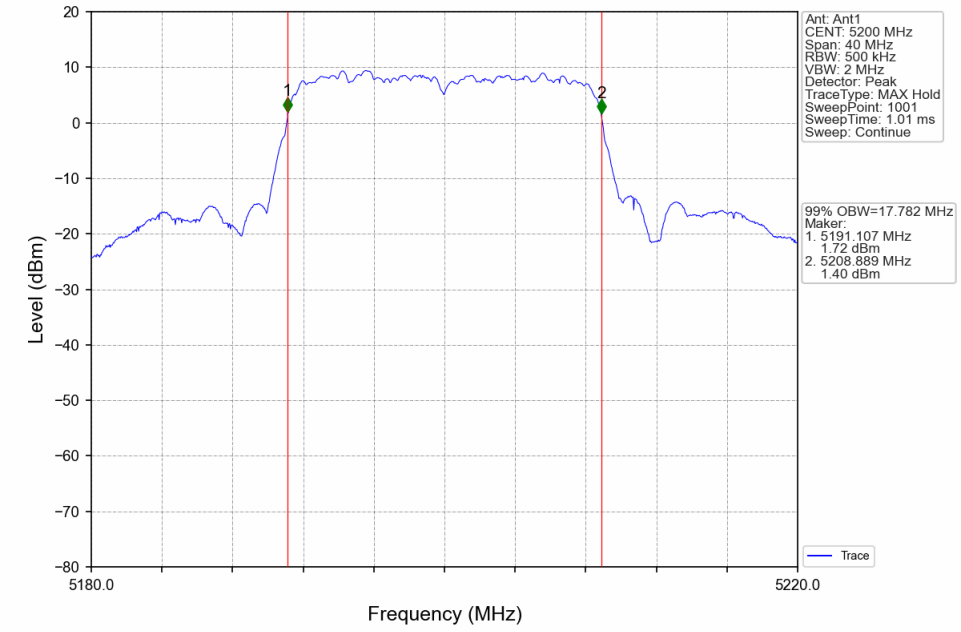

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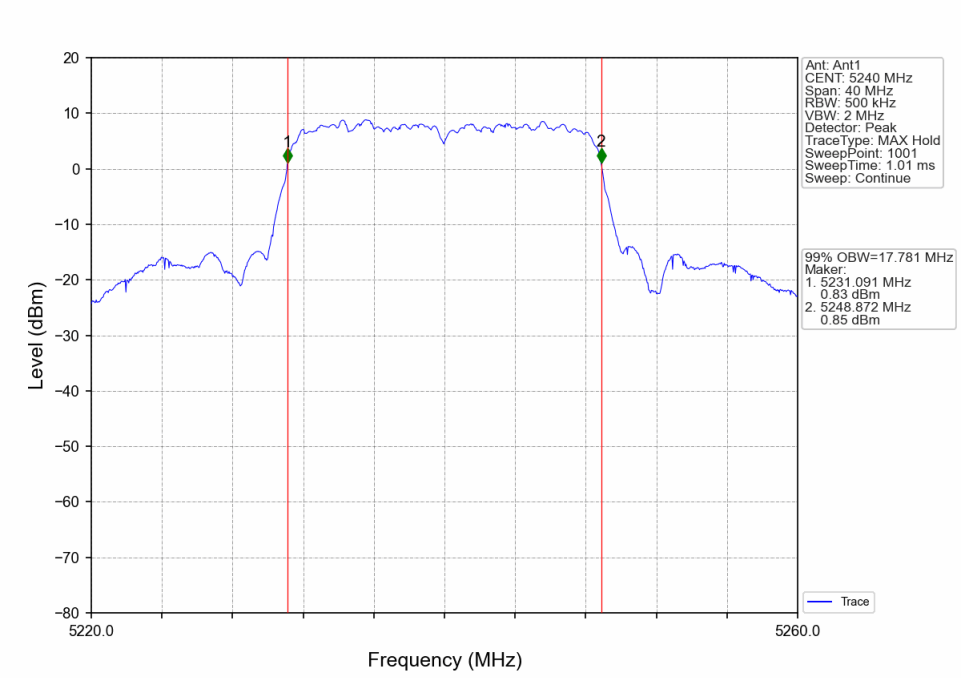
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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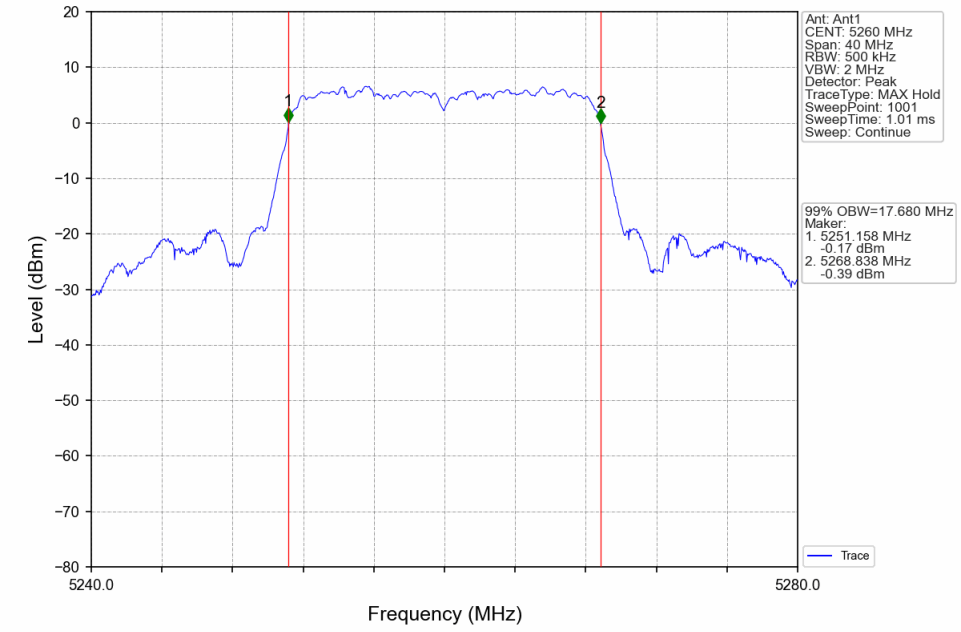

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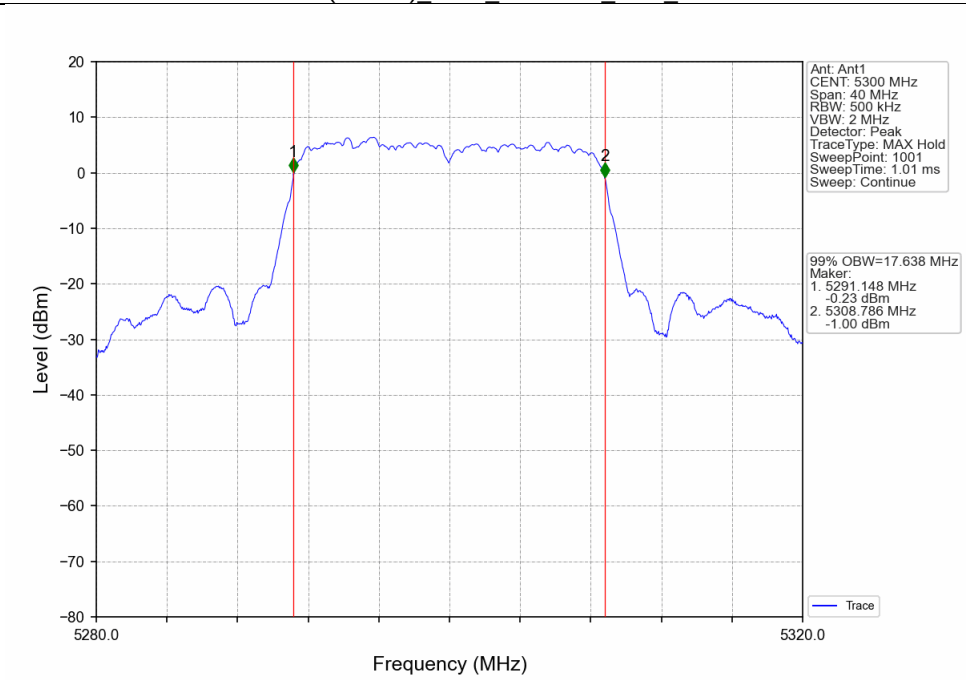
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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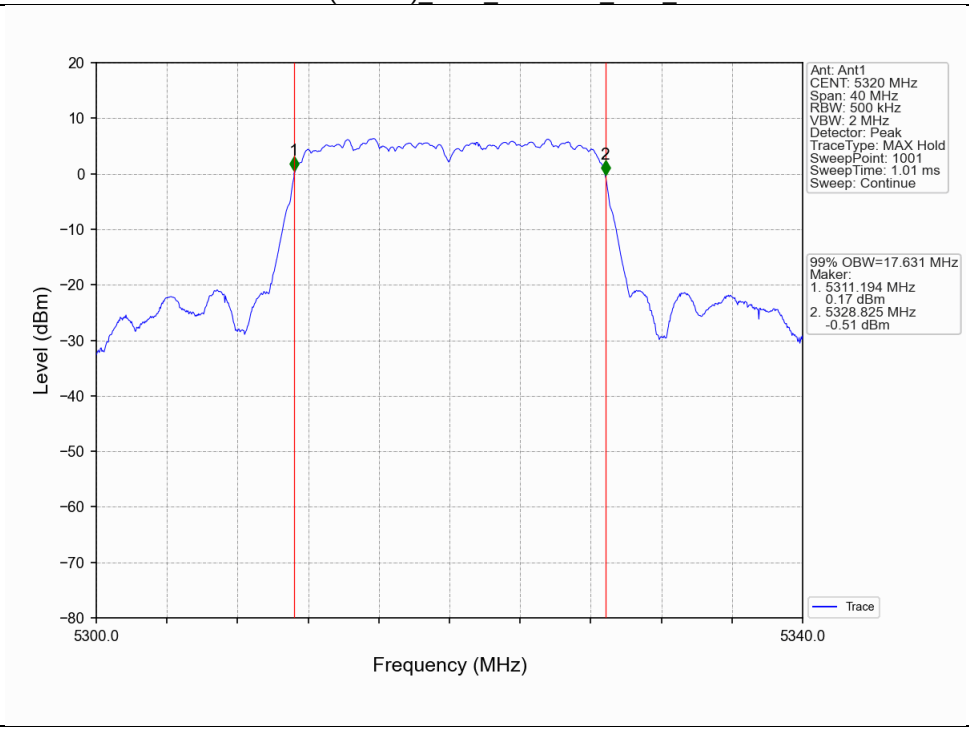

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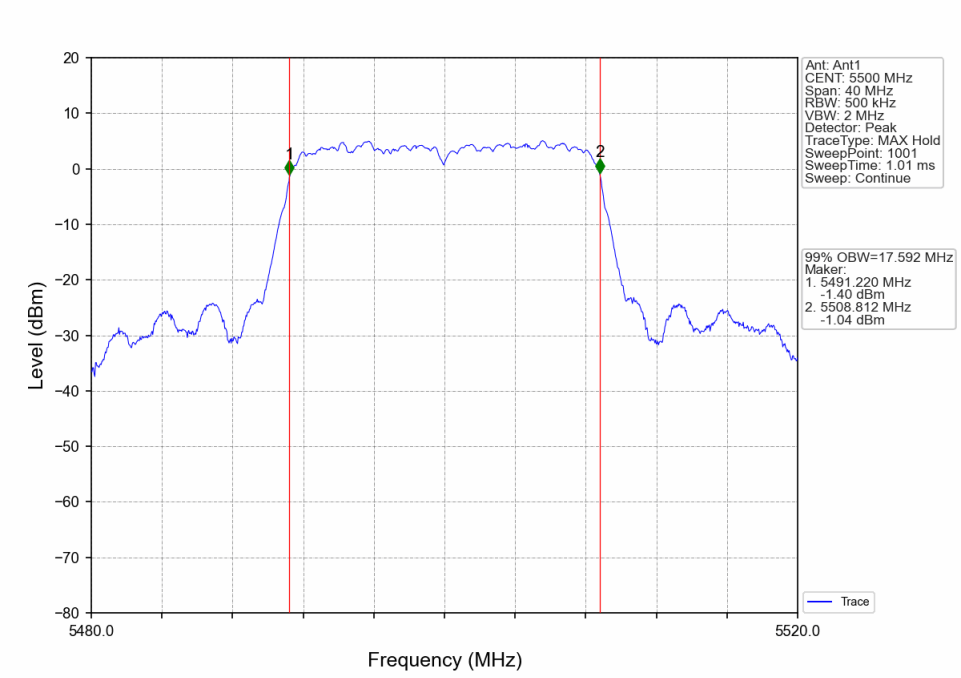
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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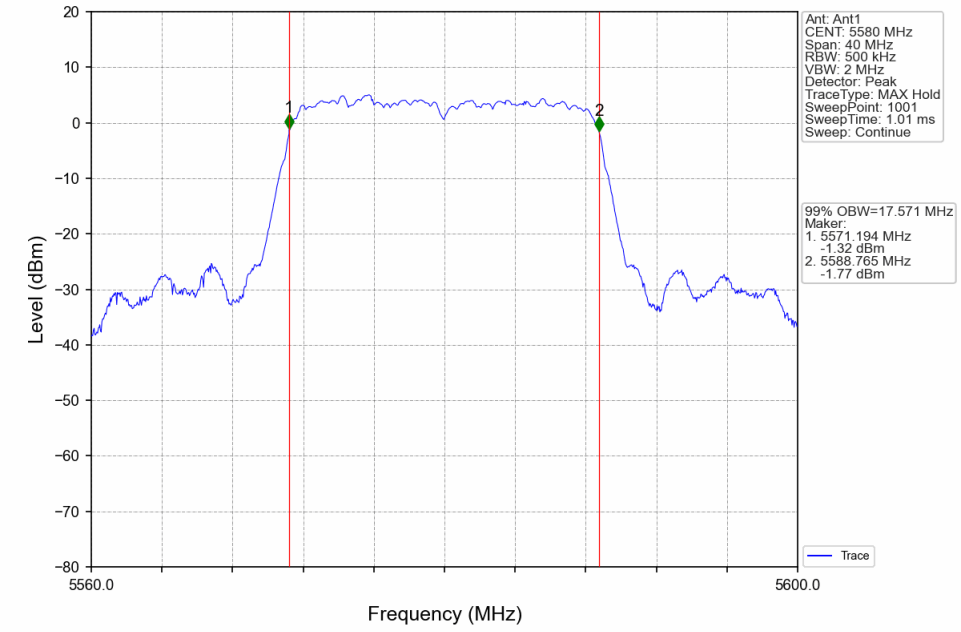

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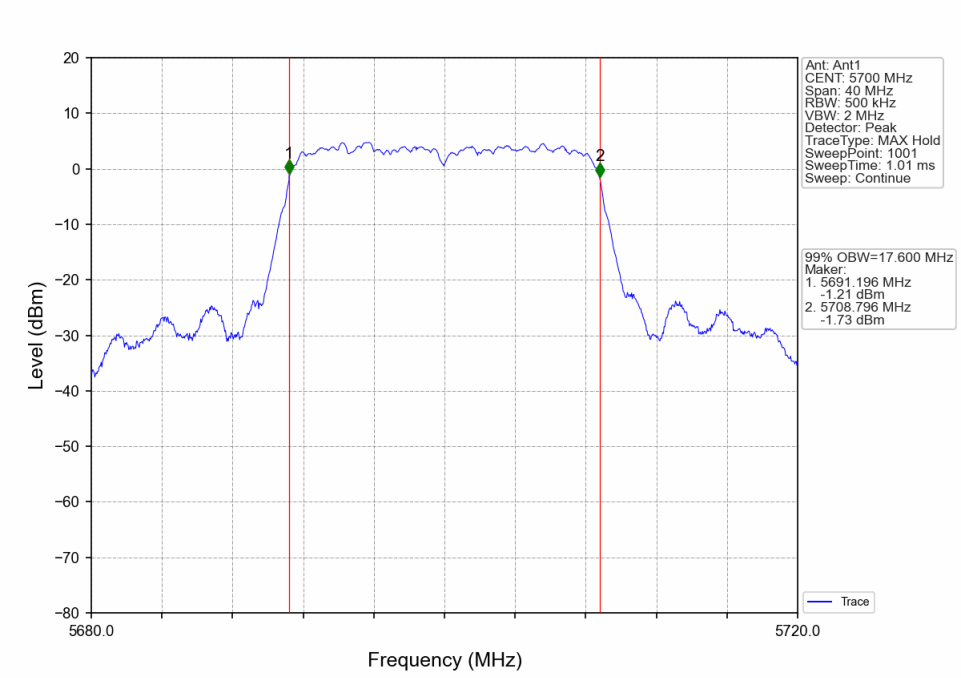
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



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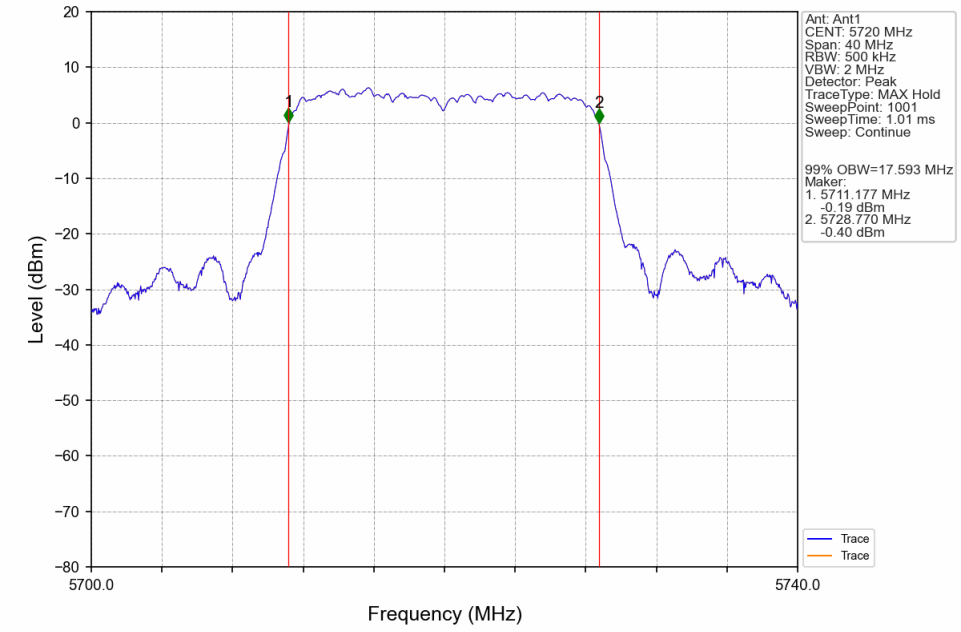

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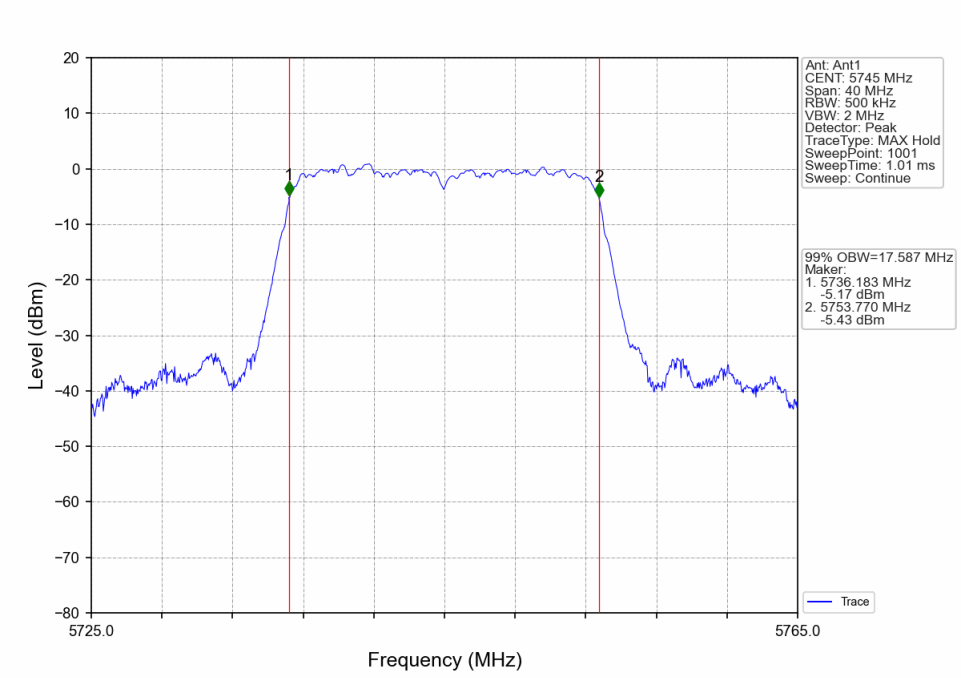
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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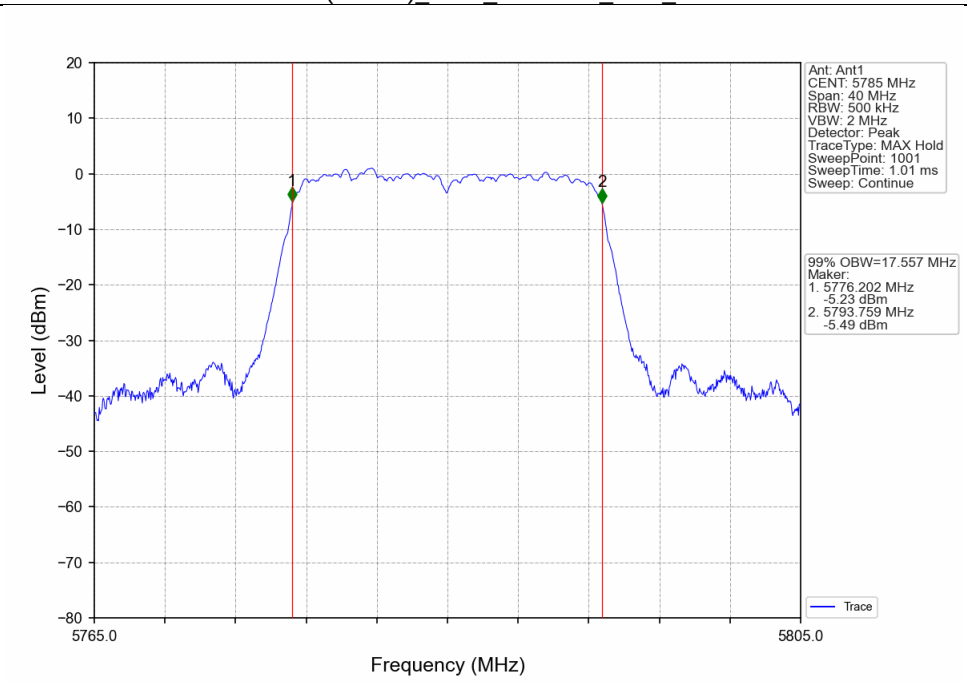

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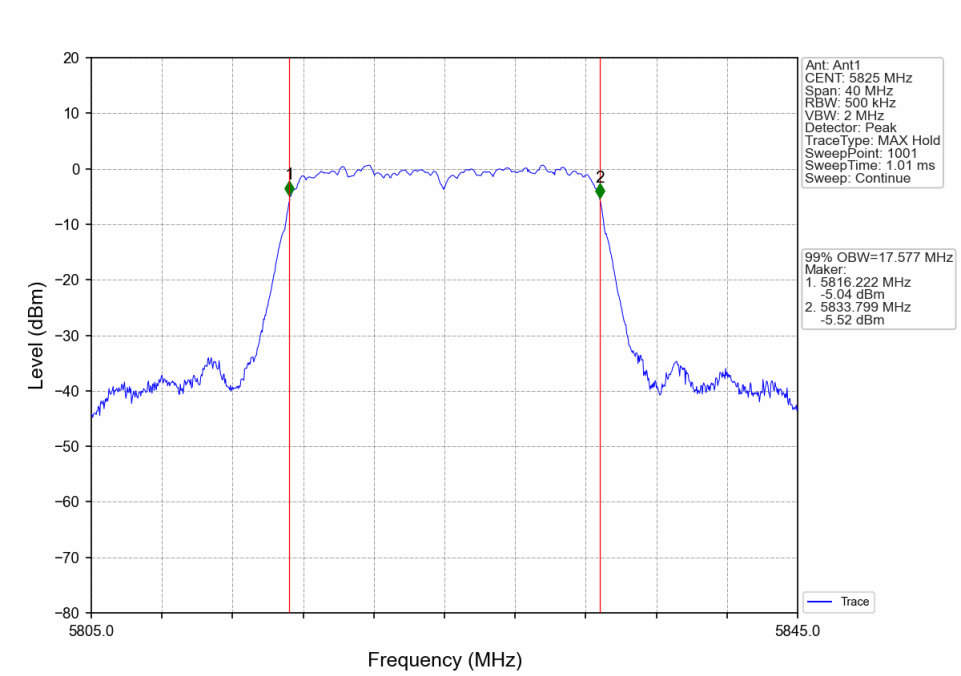
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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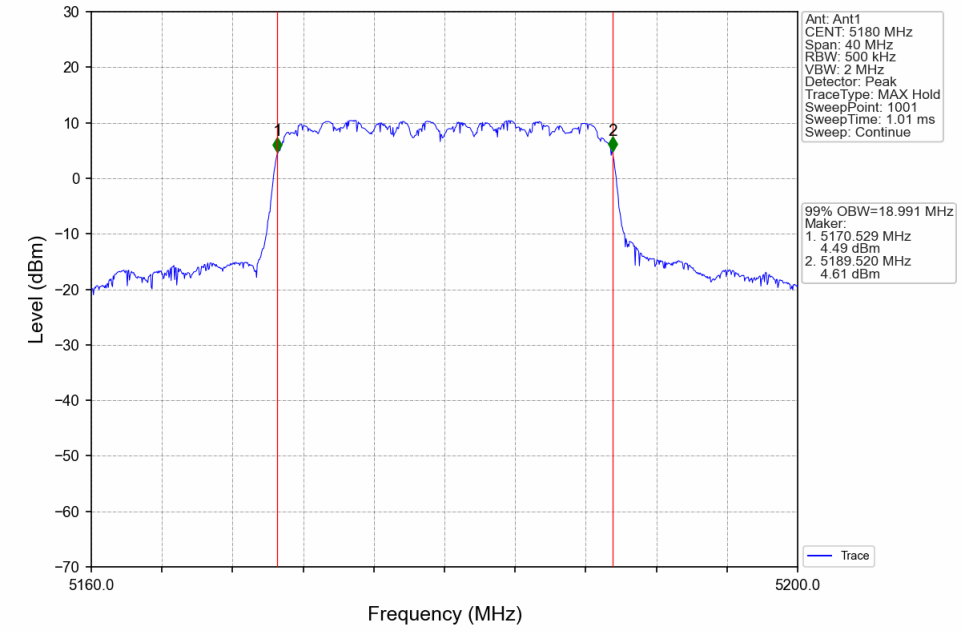

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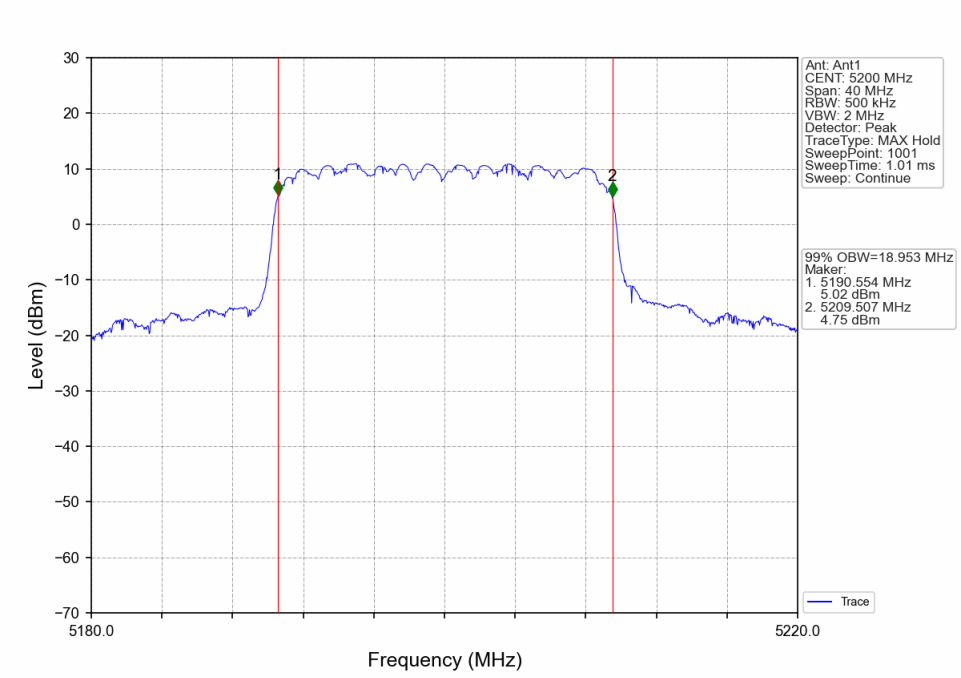
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



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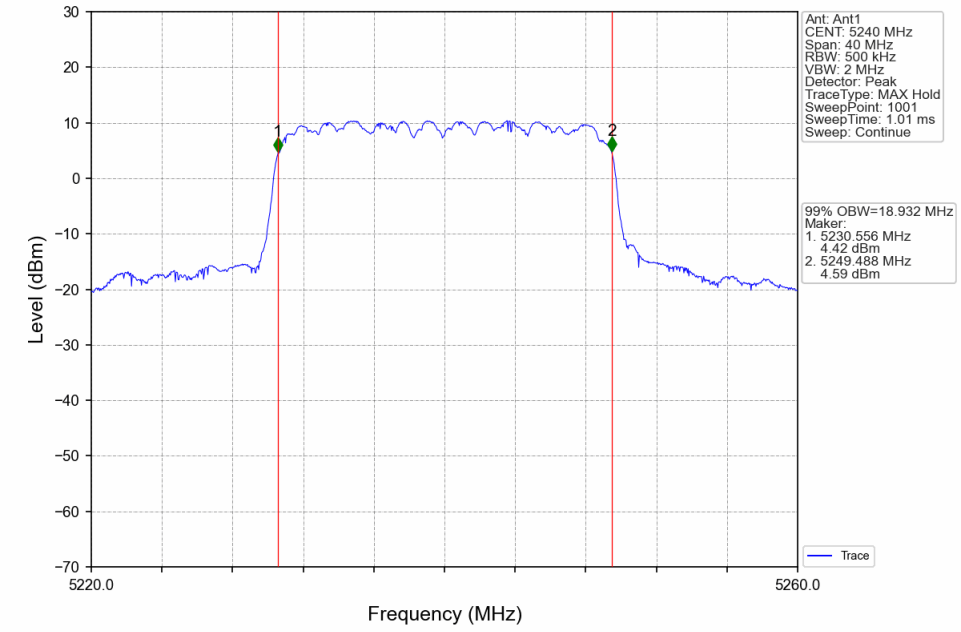

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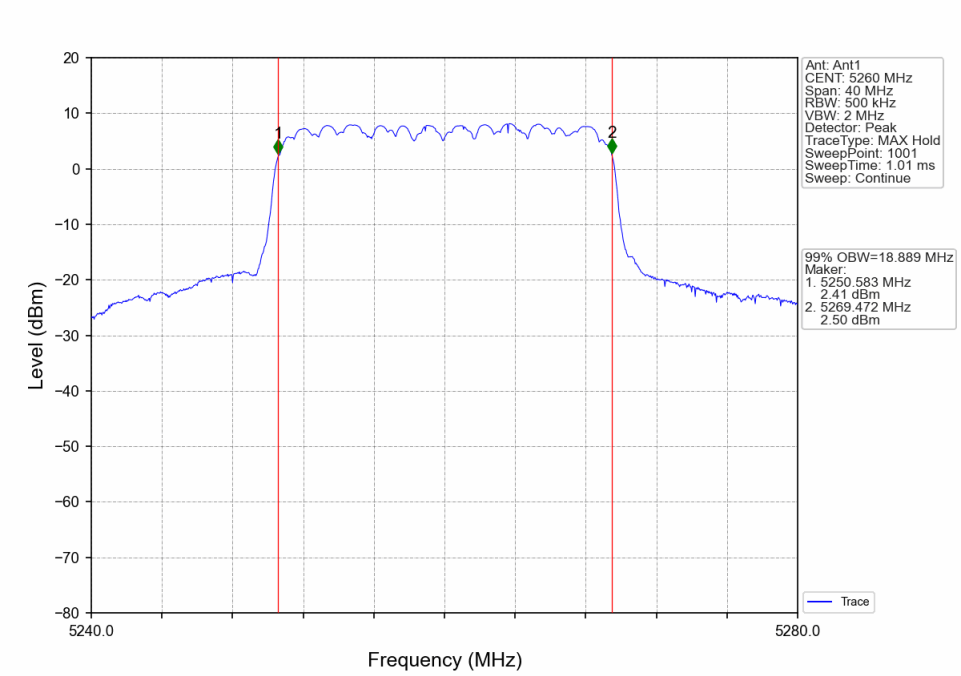
802.11ax(HEW20)_LCH_5260MHz_RU242_Left_Ant1_NTNV



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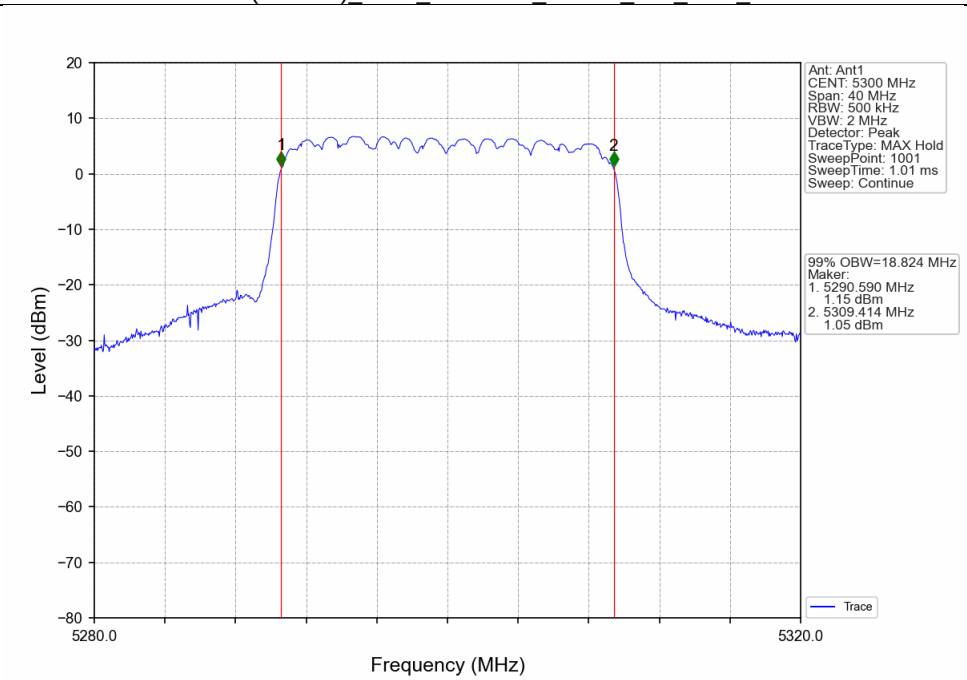

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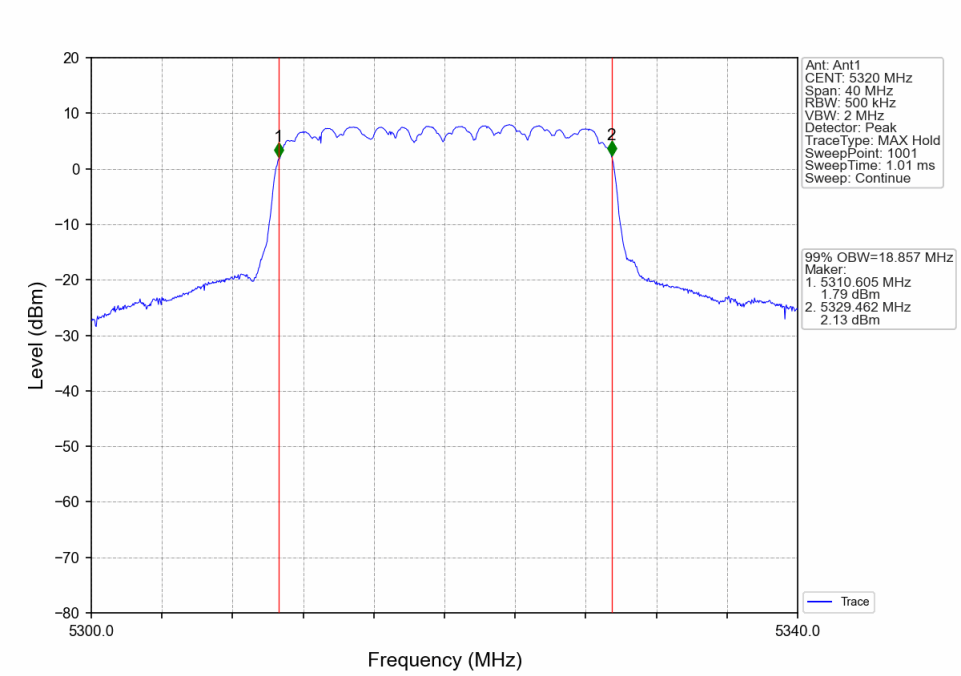
802.11ax(HEW20)_HCH_5320MHz_RU242_Left_Ant1_NTNV



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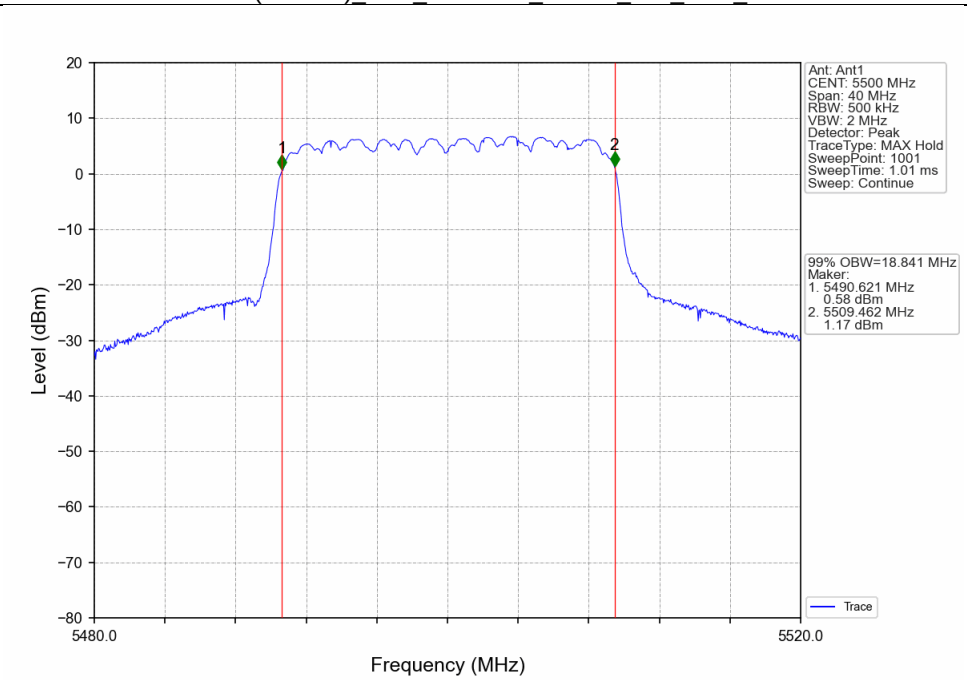

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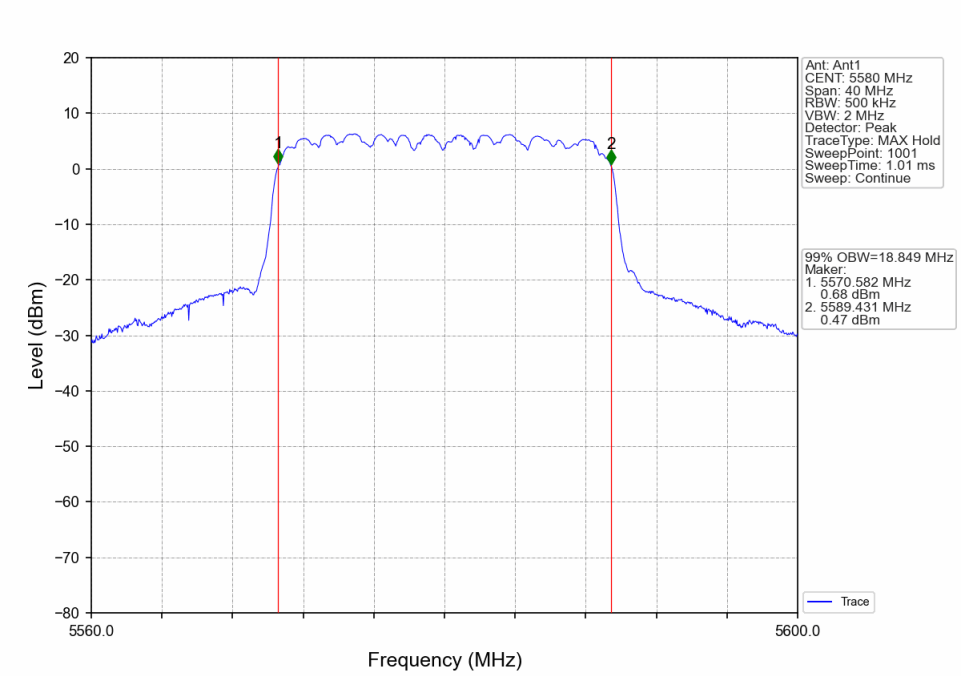
802.11ax(HEW20)_MCH_5580MHz_RU242_Left_Ant1_NTNV



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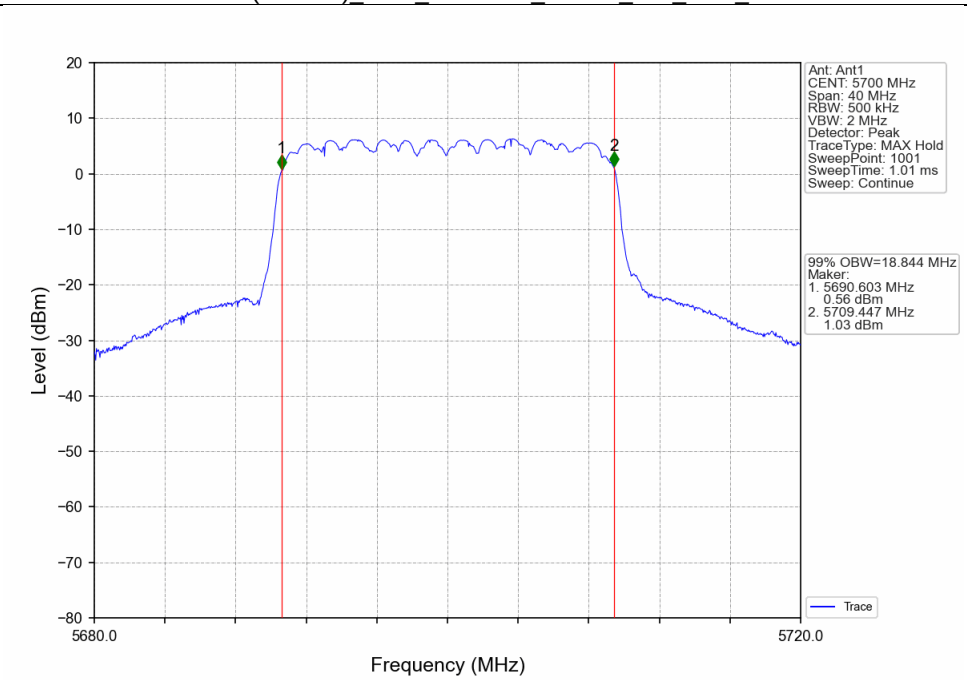

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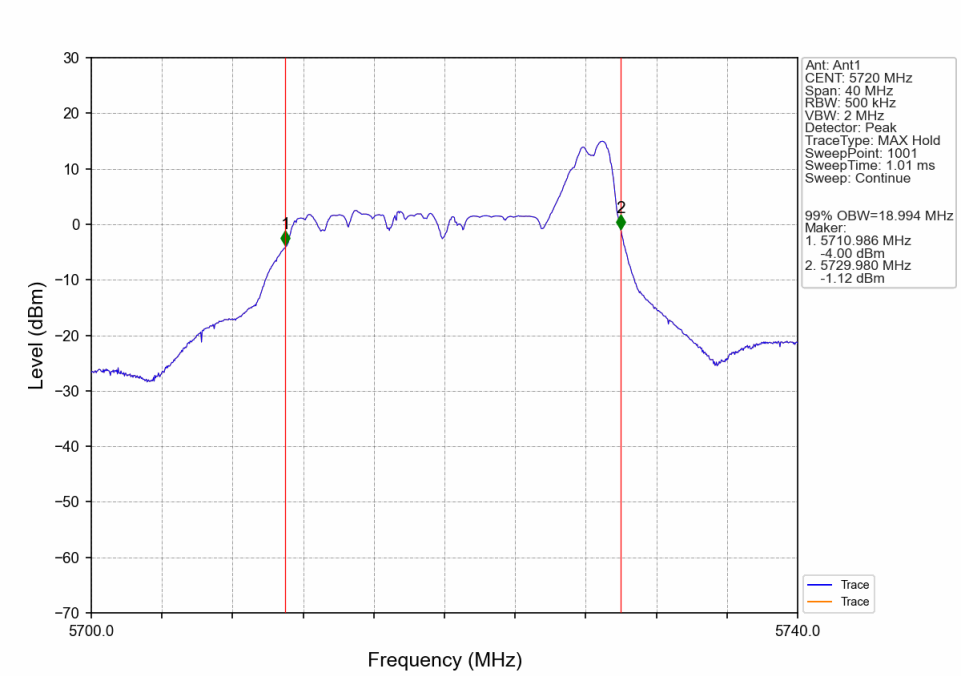
802.11ax(HEW20)_HCH_5720MHz_RU242_Left_Ant1_NTNV



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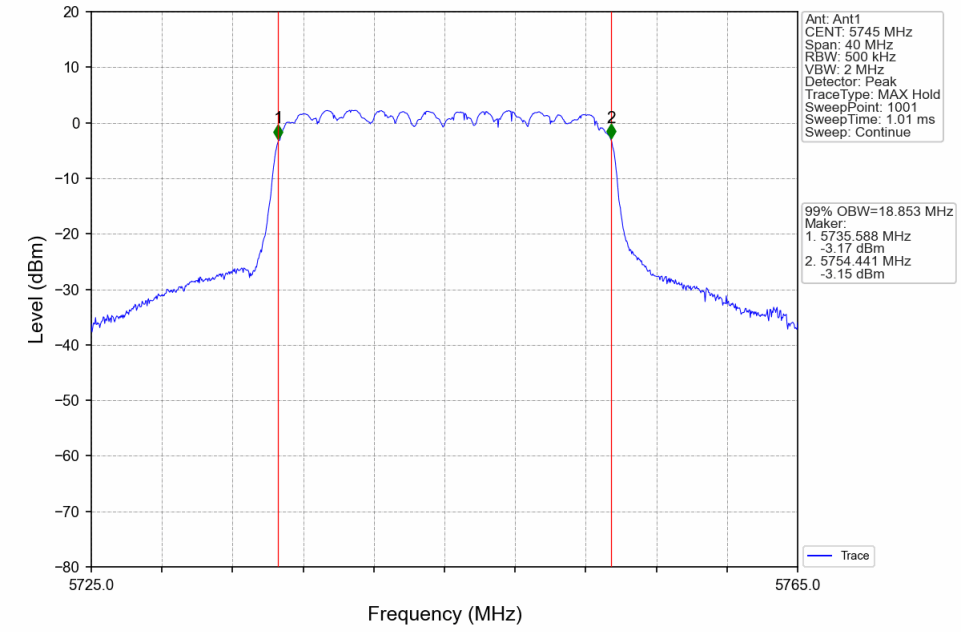

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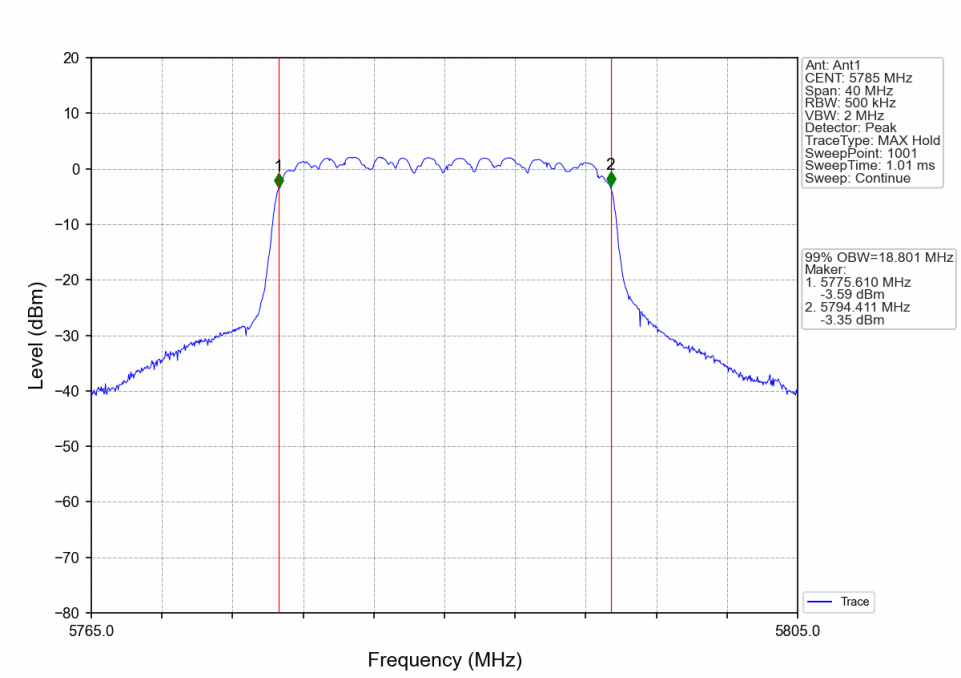
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant1_NTNV



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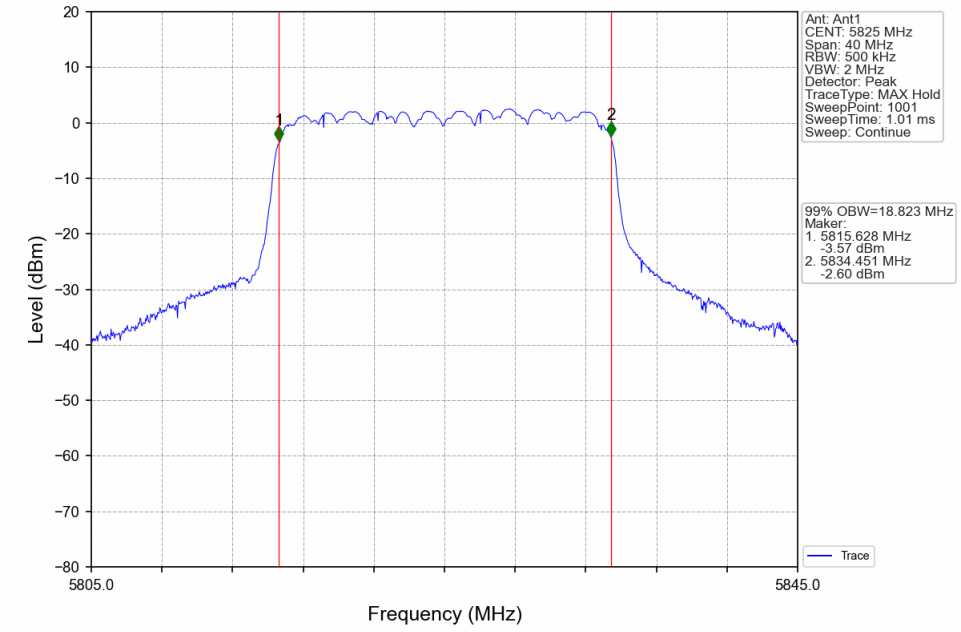

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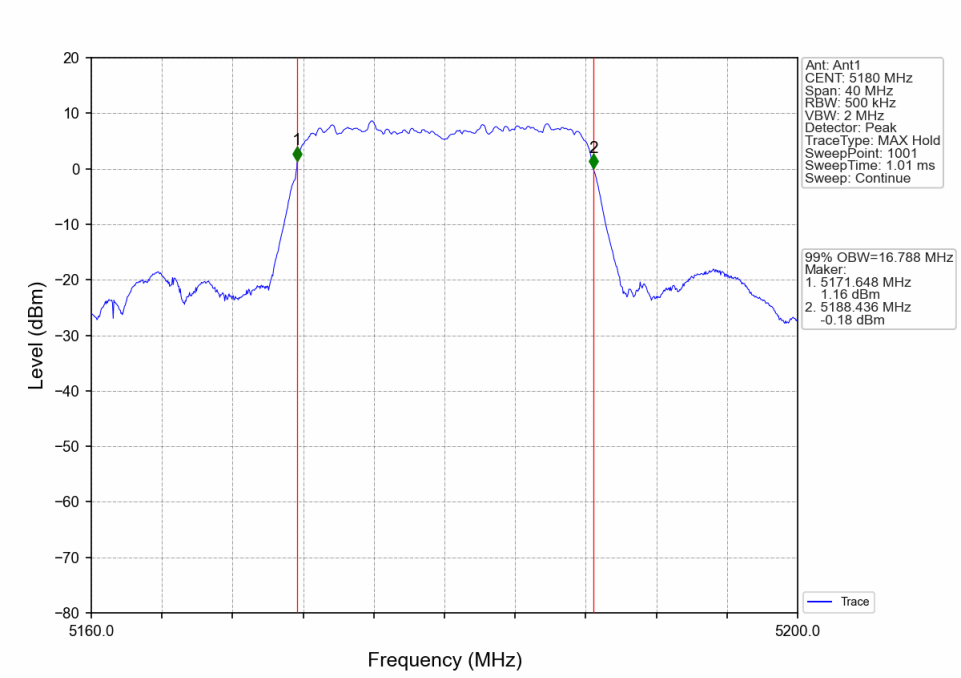
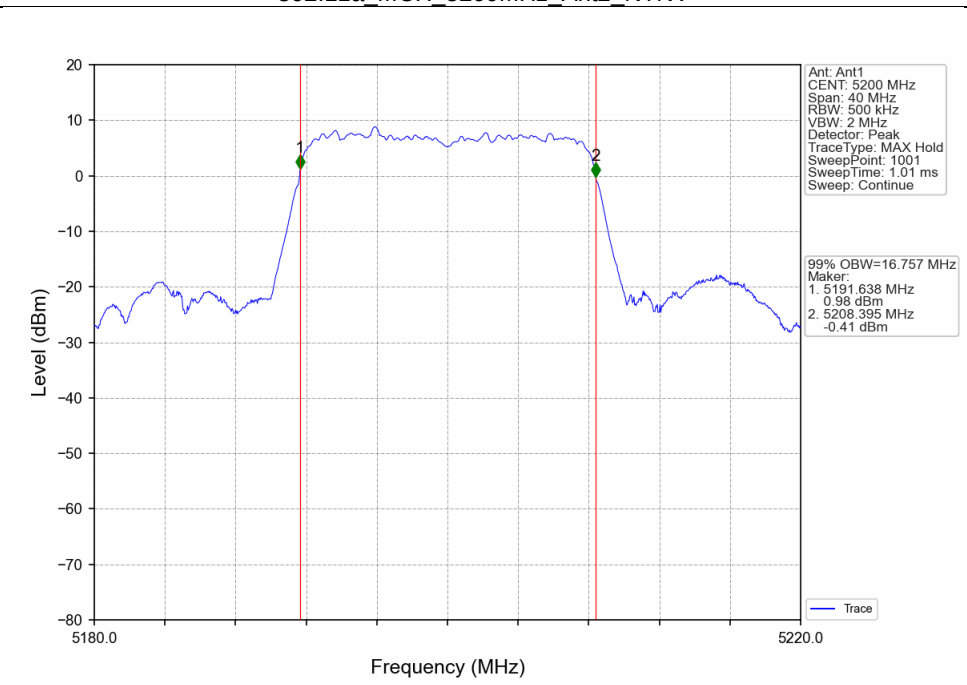
802.11a_LCH_5180MHz_Ant2_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



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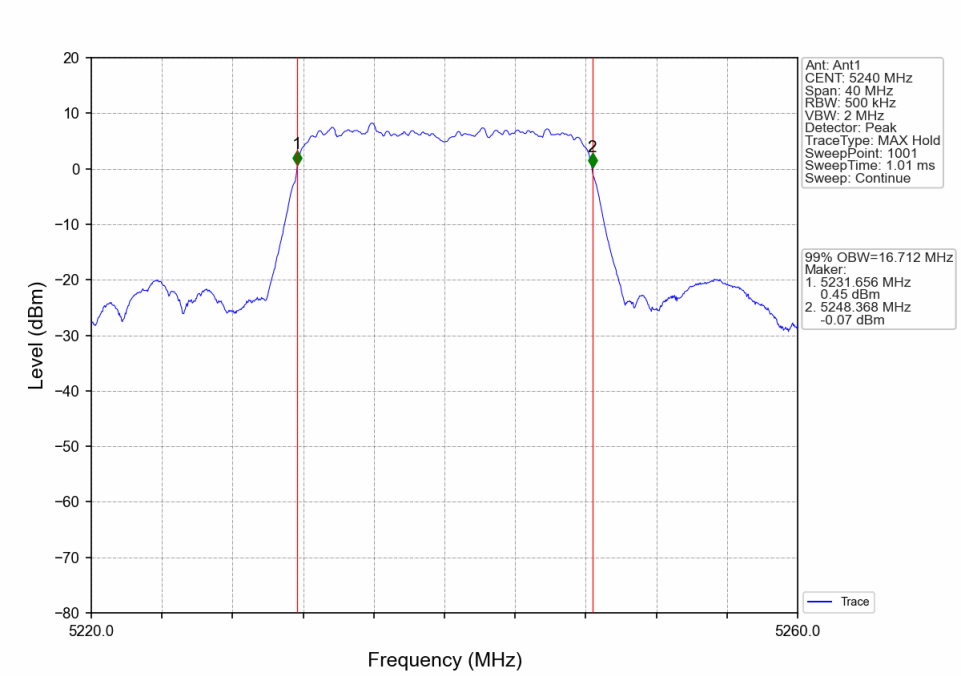
802.11a_HCH_5240MHz_Ant2_NTNV



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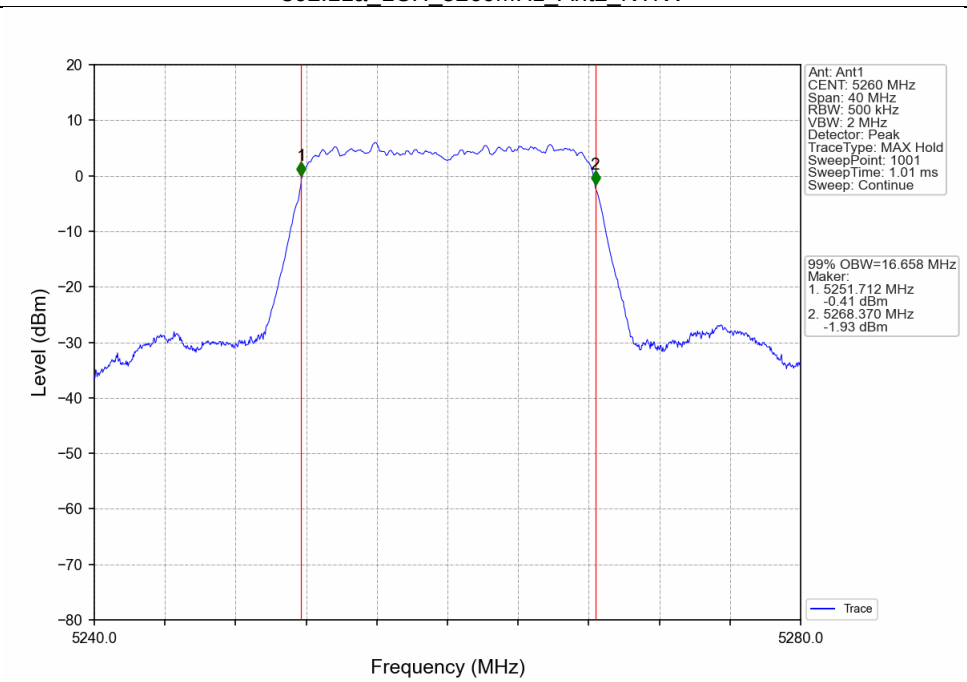

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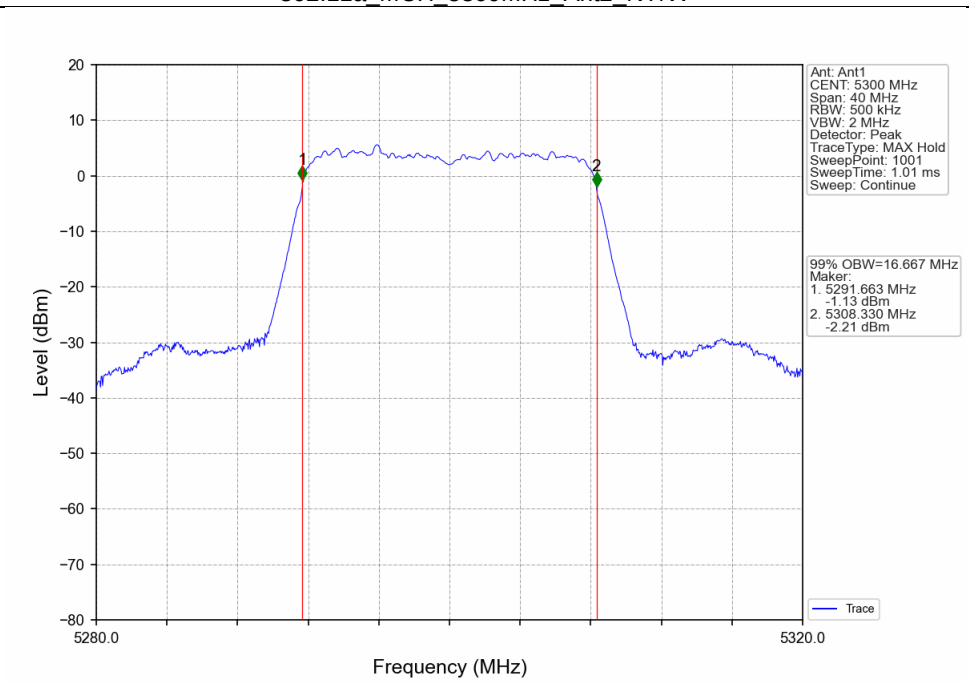
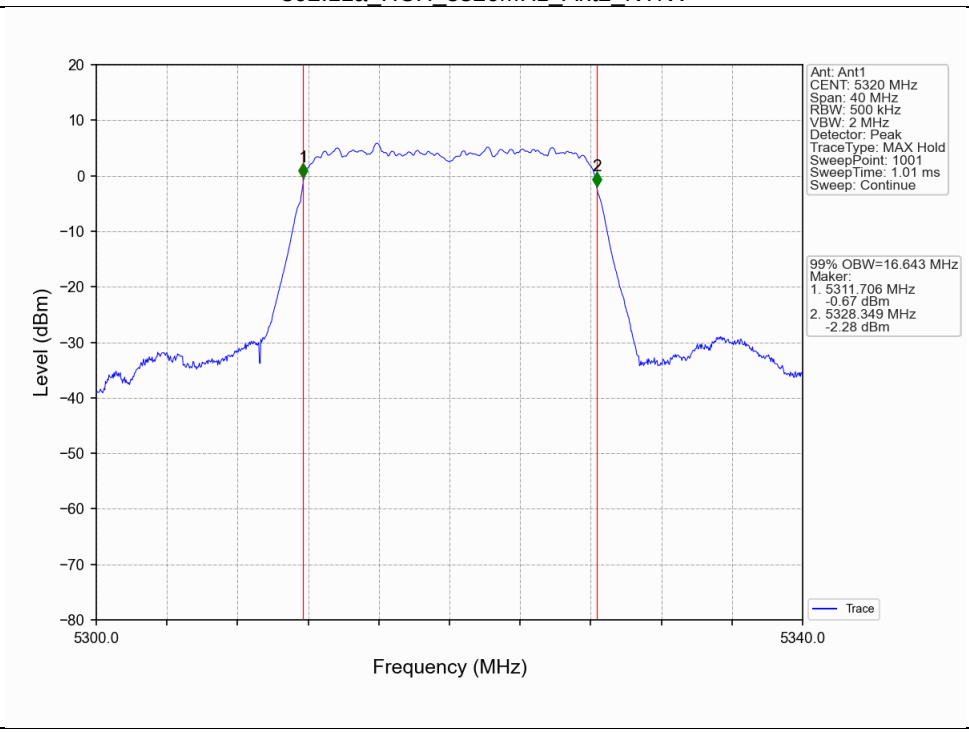
802.11a_MCH_5300MHz_Ant2_NTNV



802.11a_HCH_5320MHz_Ant2_NTNV



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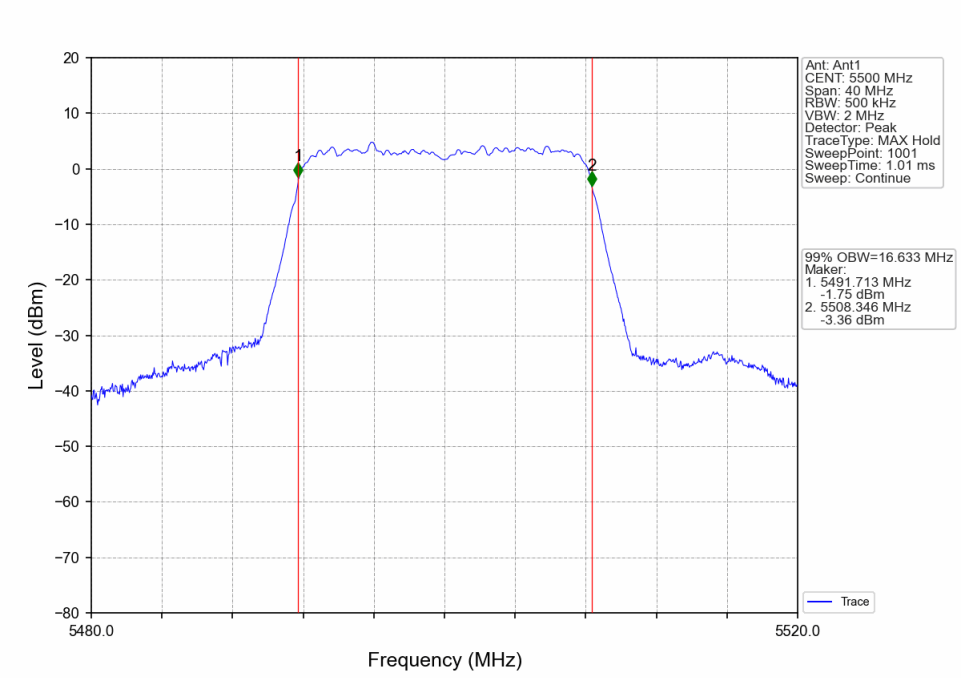
802.11a_LCH_5500MHz_Ant2_NTNV



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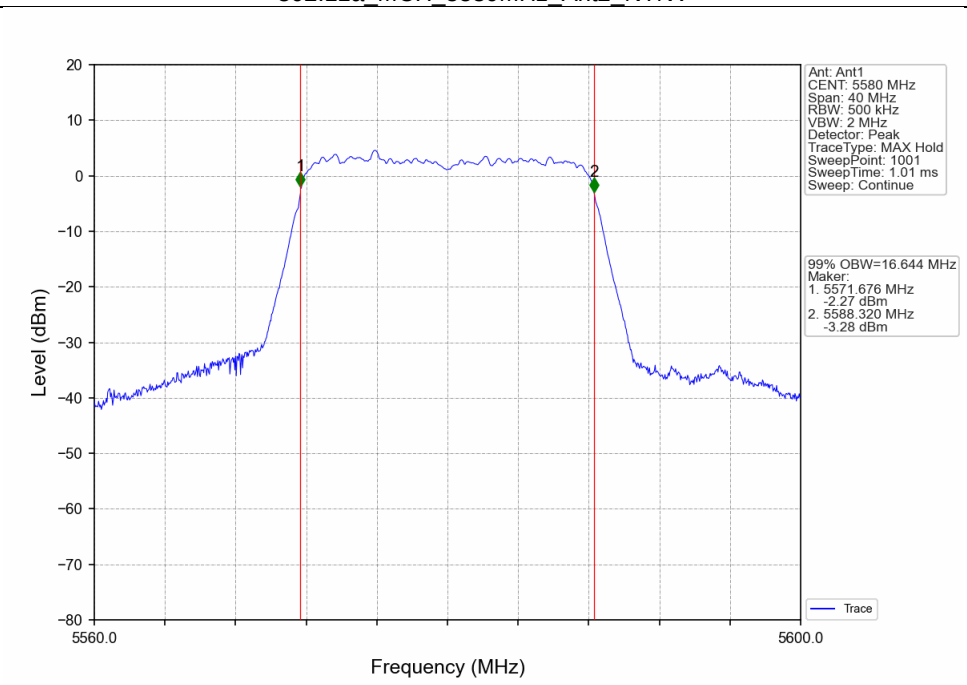

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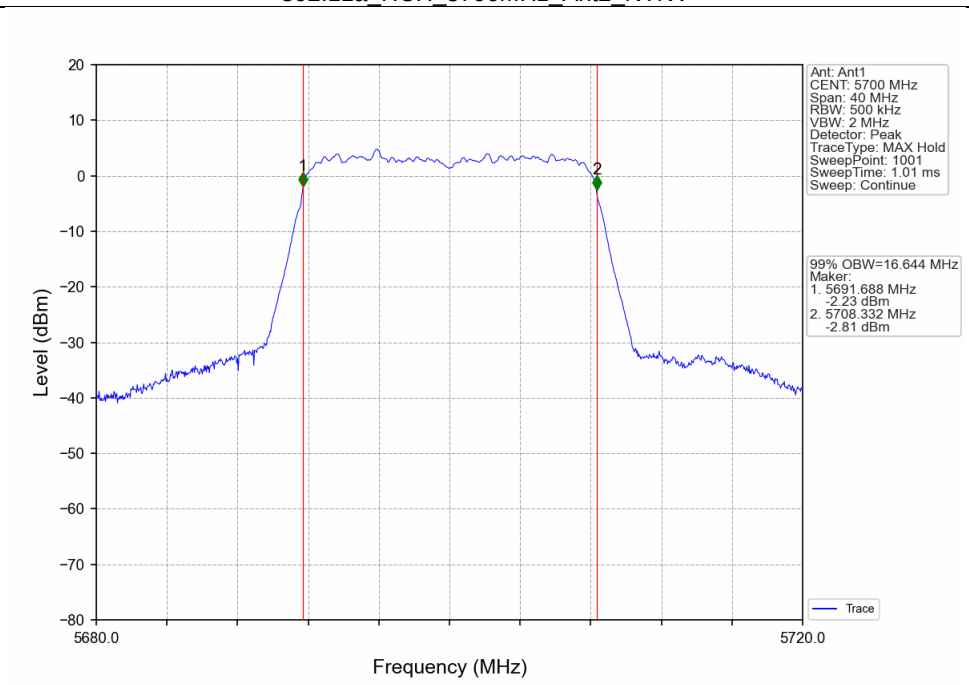
802.11a_HCH_5700MHz_Ant2_NTNV



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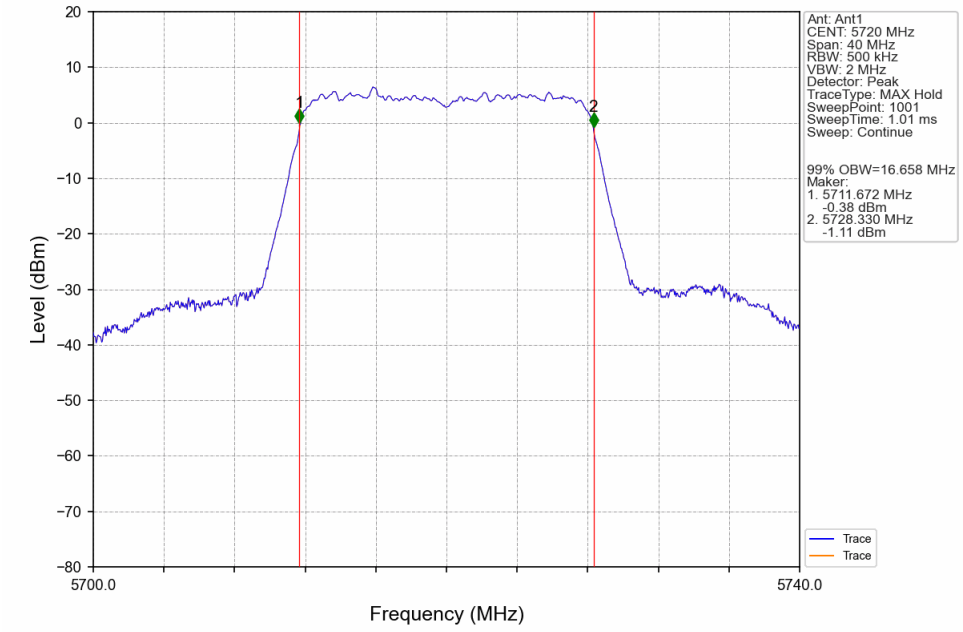

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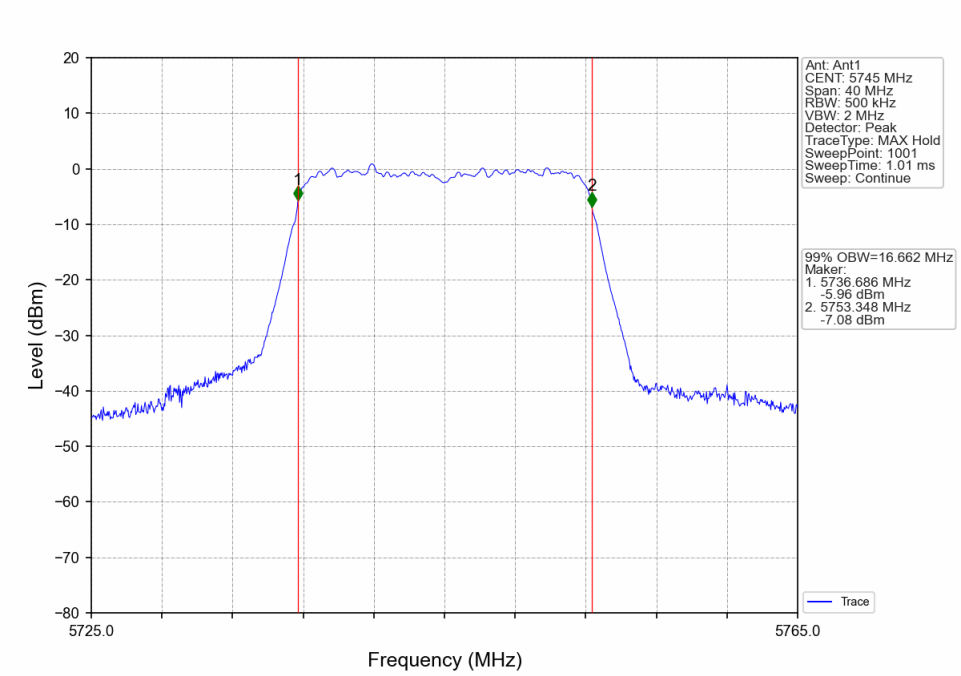
802.11a_LCH_5745MHz_Ant2_NTNV



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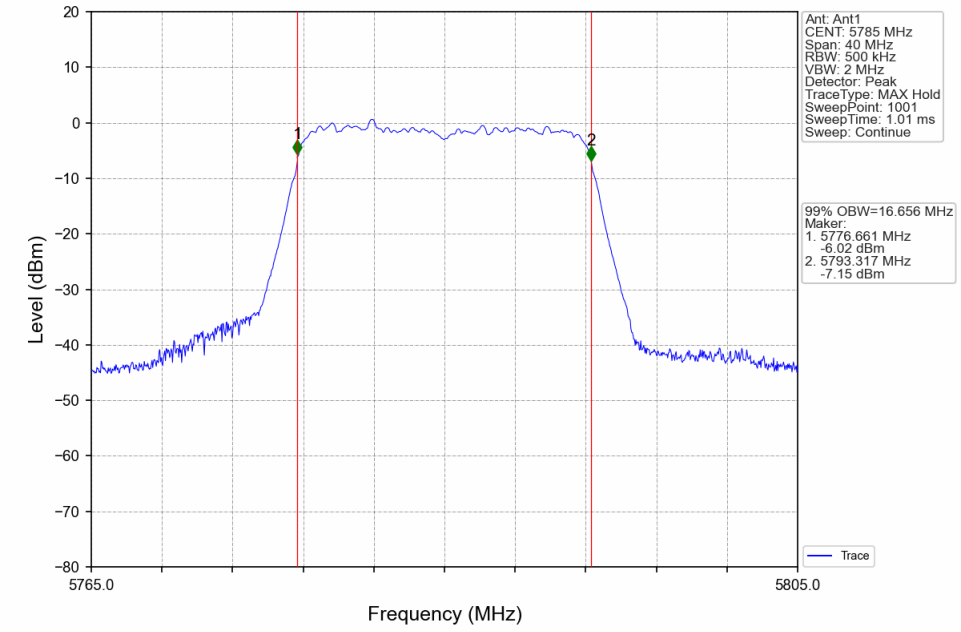

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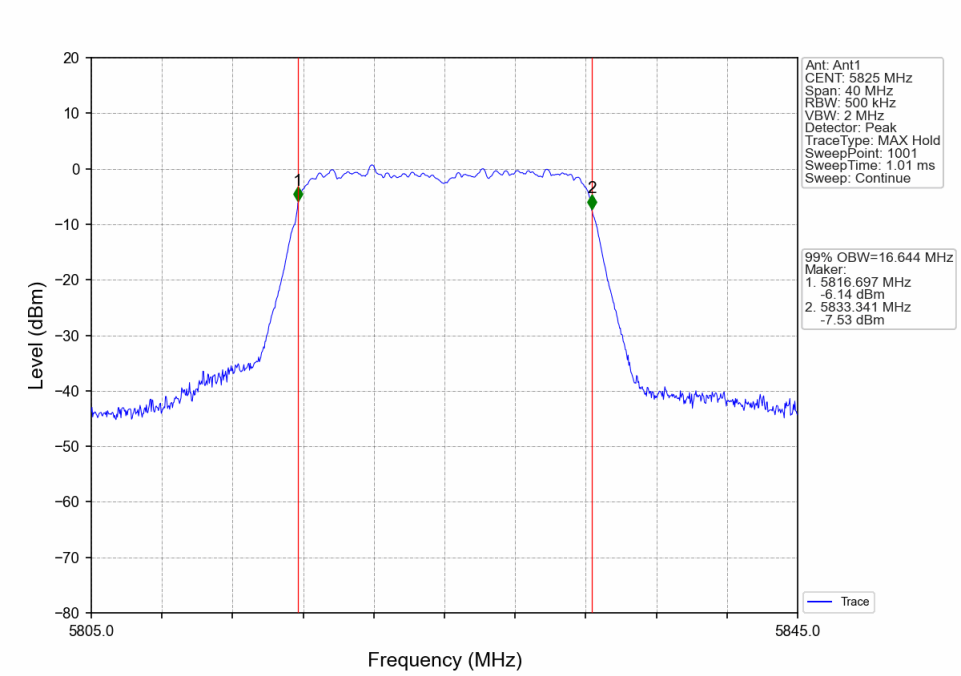
802.11a_HCH_5825MHz_Ant2_NTNV



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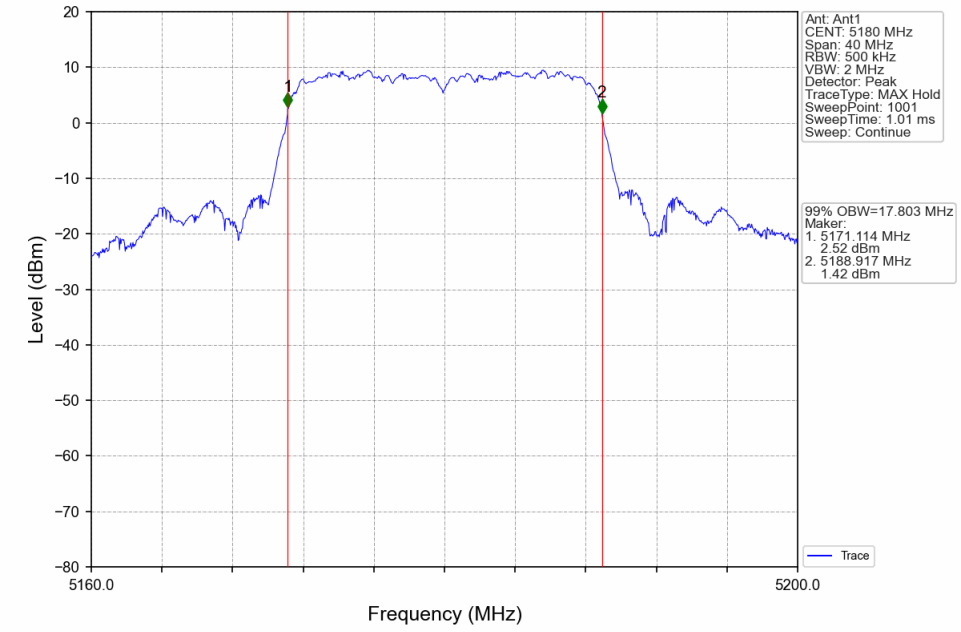

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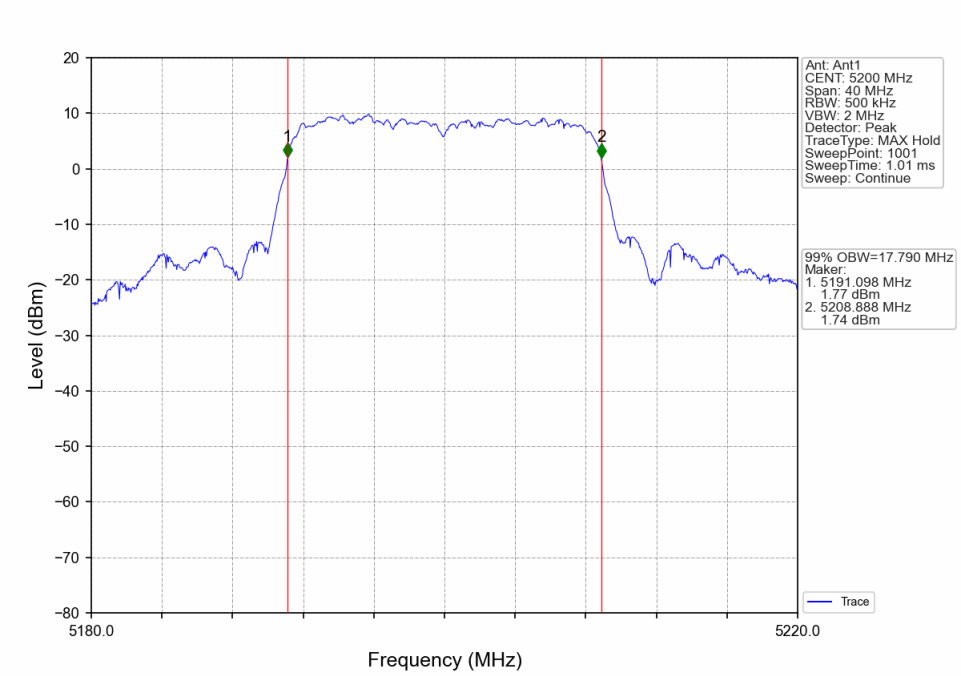
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



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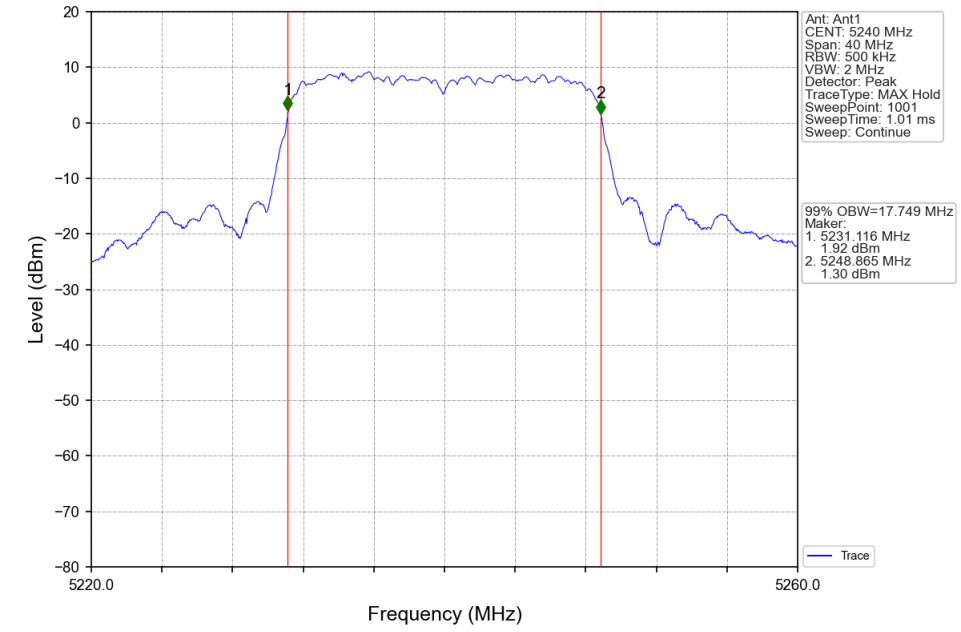

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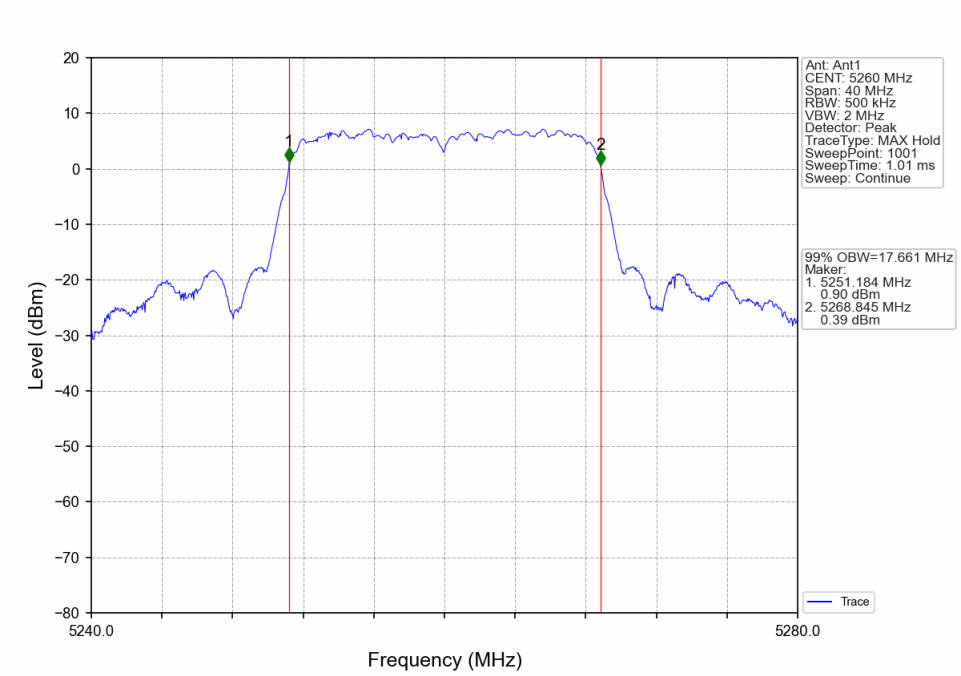
802.11n(HT20)_LCH_5260MHz_Ant2_NTNV



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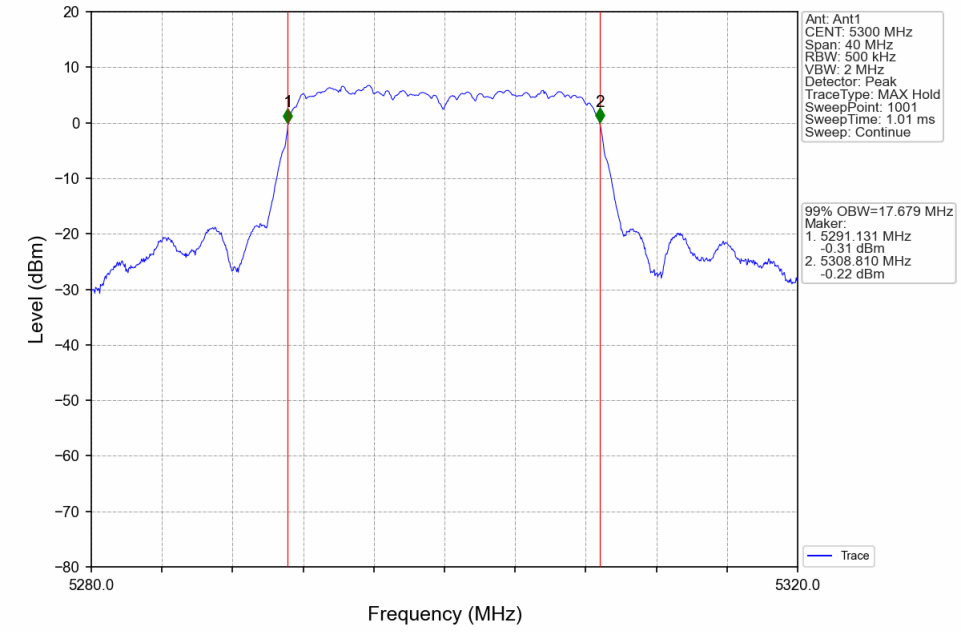

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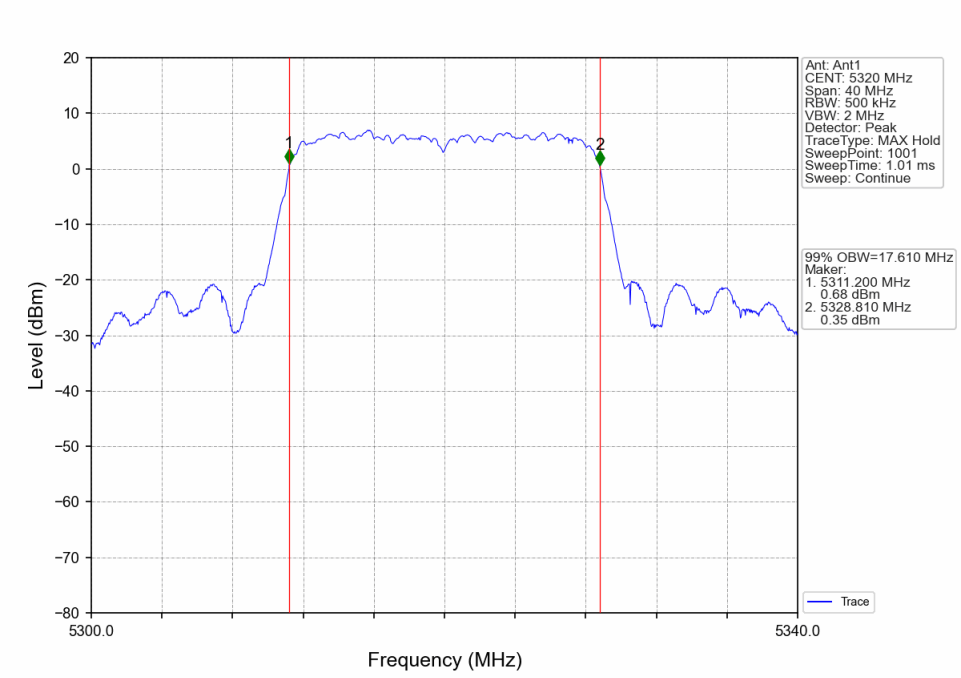
802.11n(HT20)_HCH_5320MHz_Ant2_NTNV



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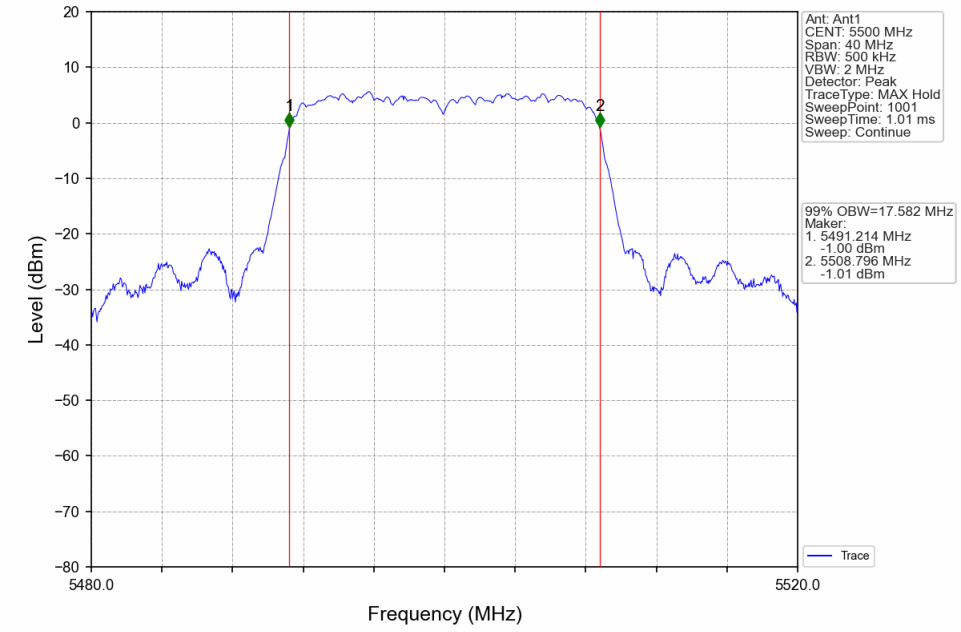

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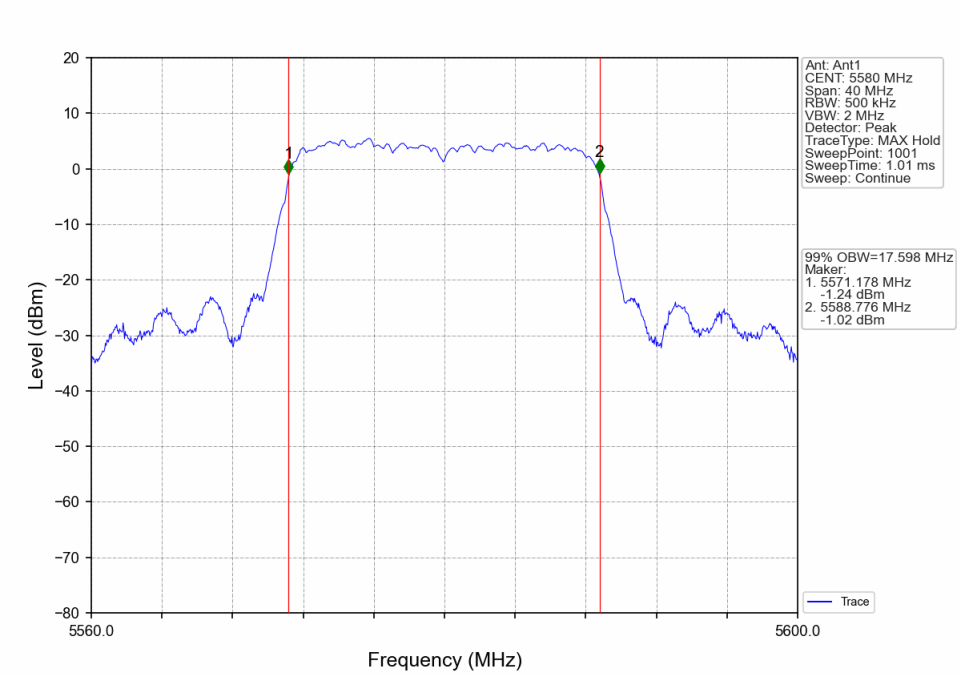
802.11n(HT20)_MCH_5580MHz_Ant2_NTNV



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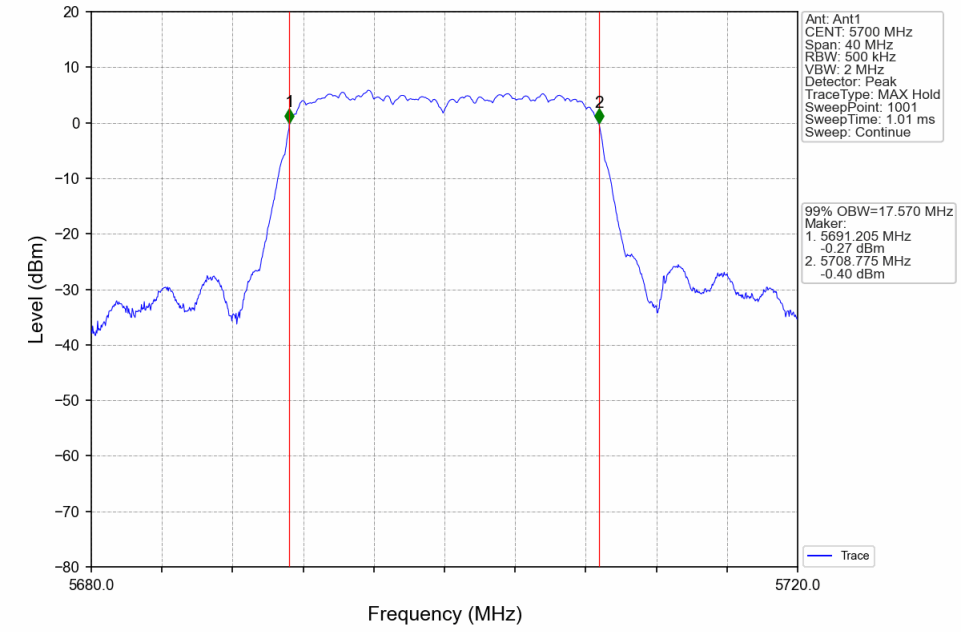

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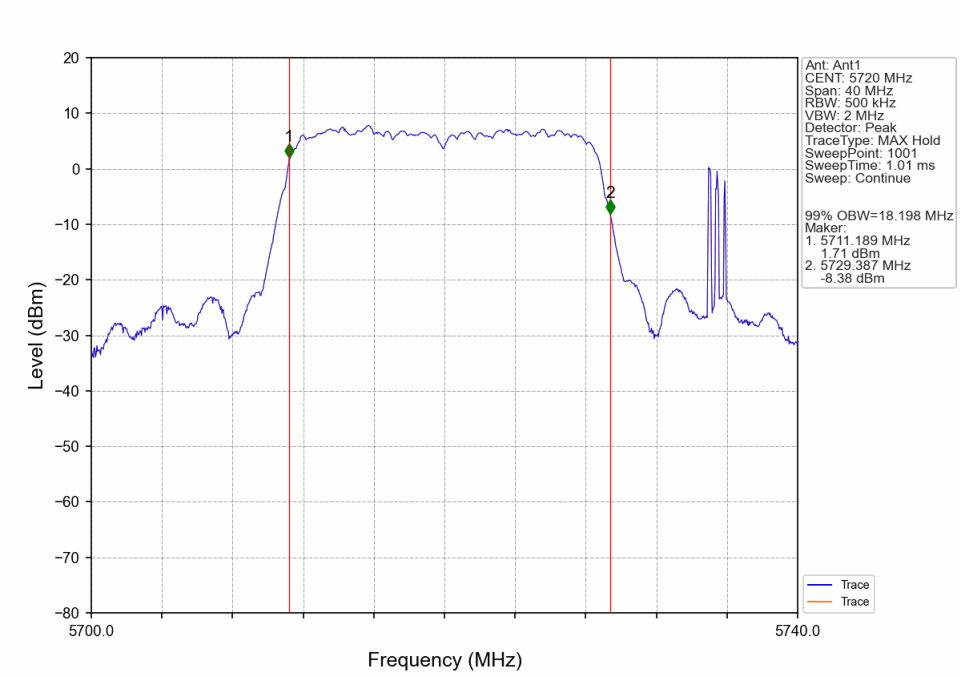
802.11n(HT20)_HCH_5720MHz_Ant1_NTNV



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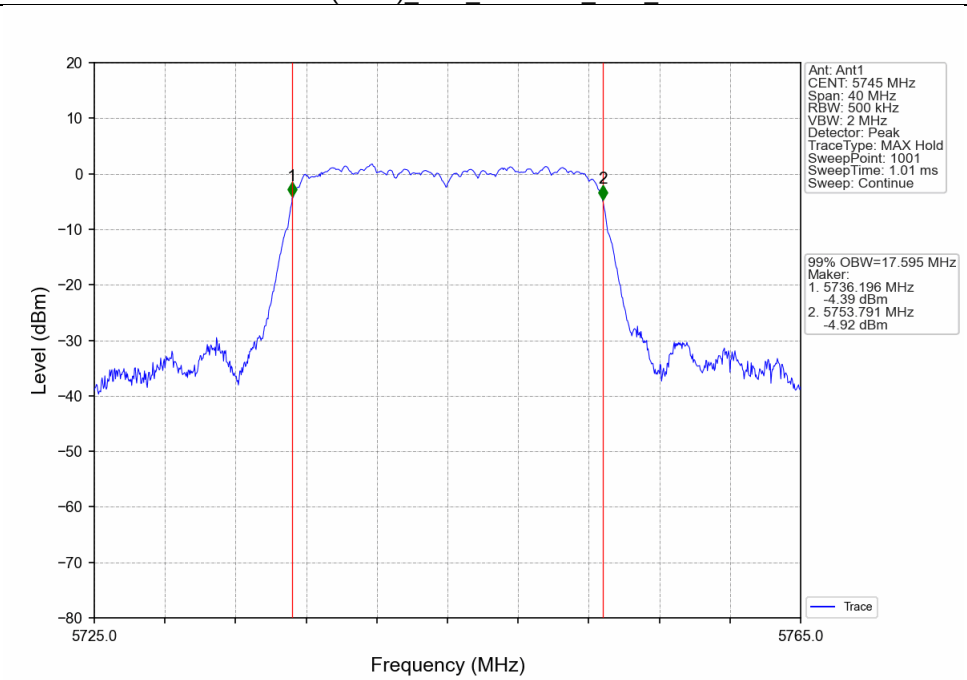

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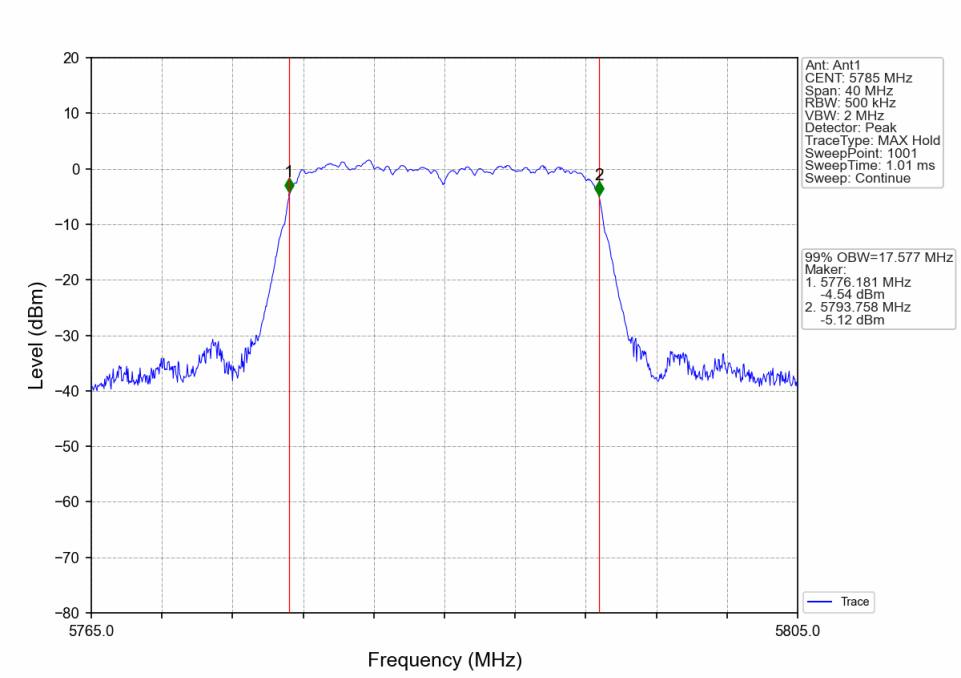
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



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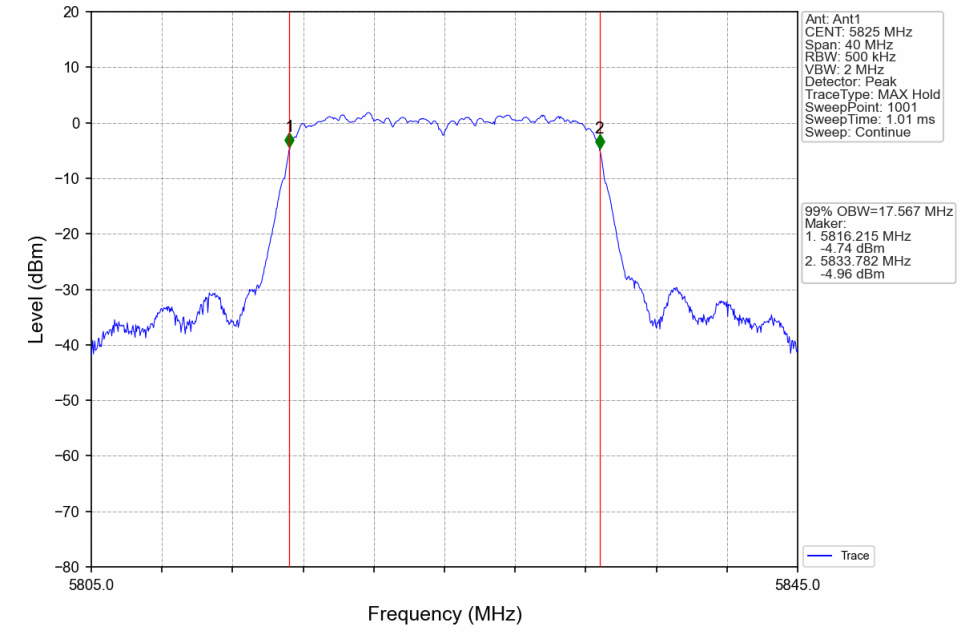

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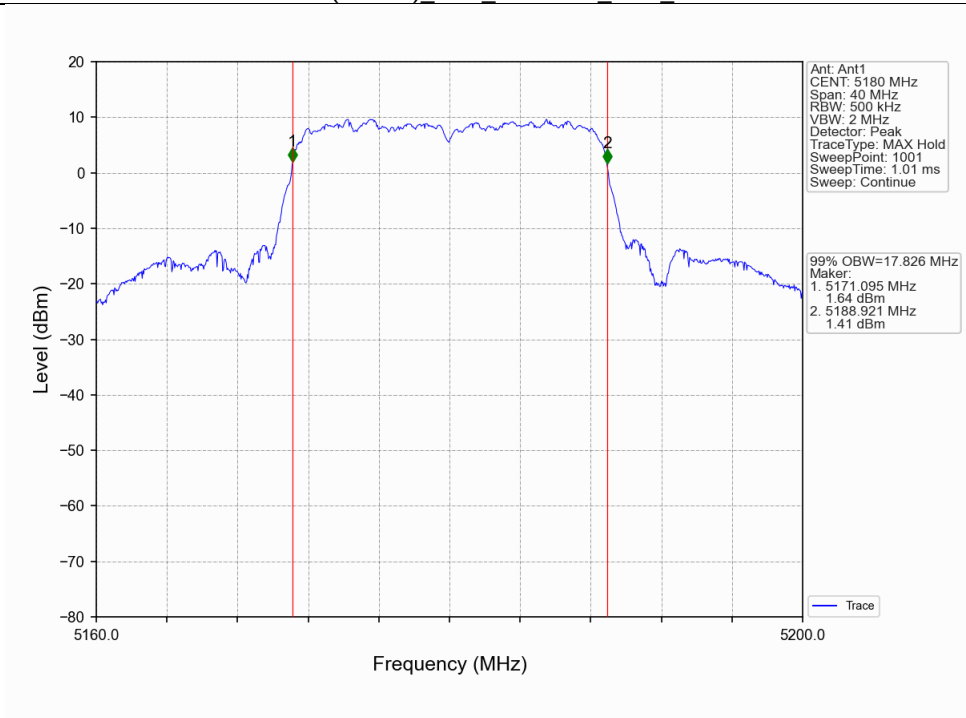
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



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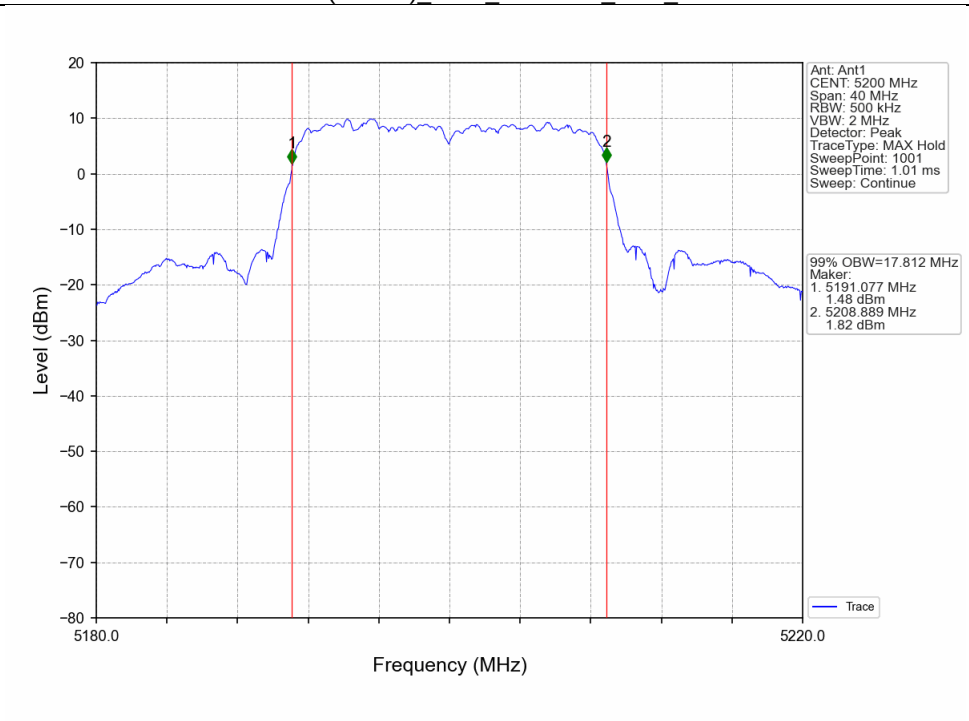

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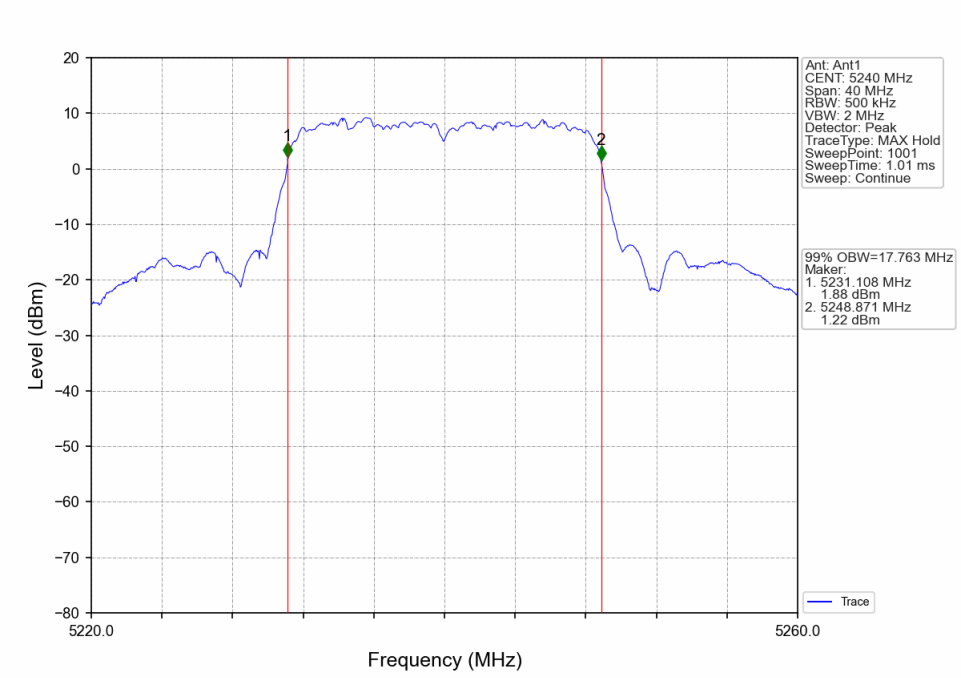
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



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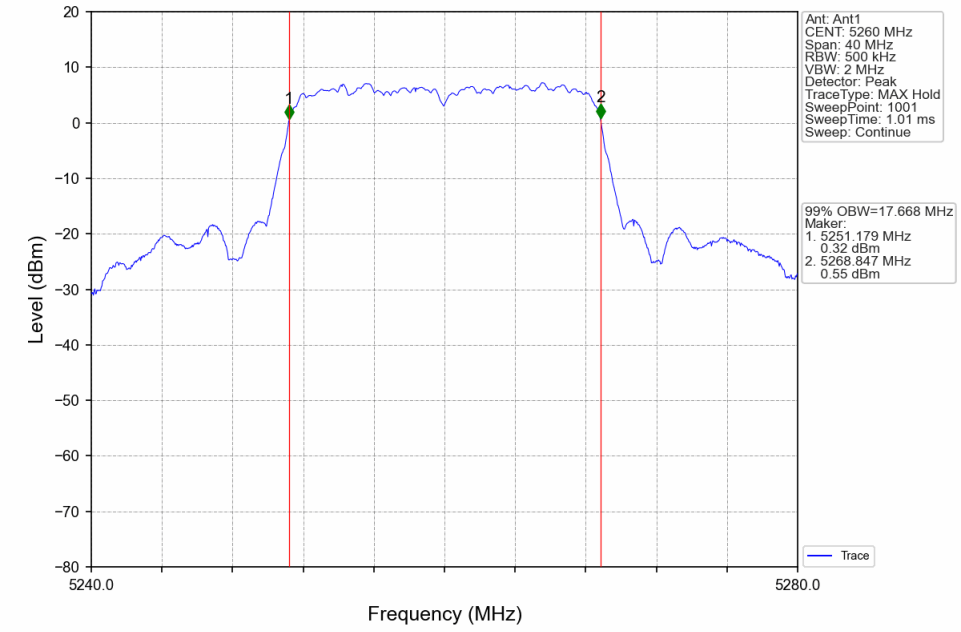

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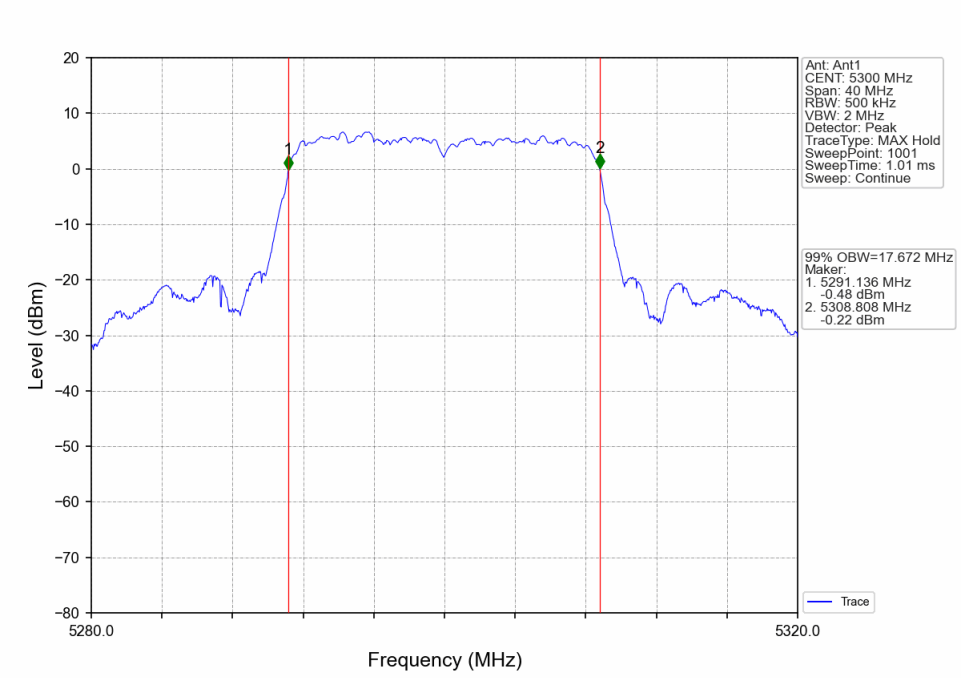
802.11ac(VHT20)_MCH_5300MHz_Ant2_NTNV



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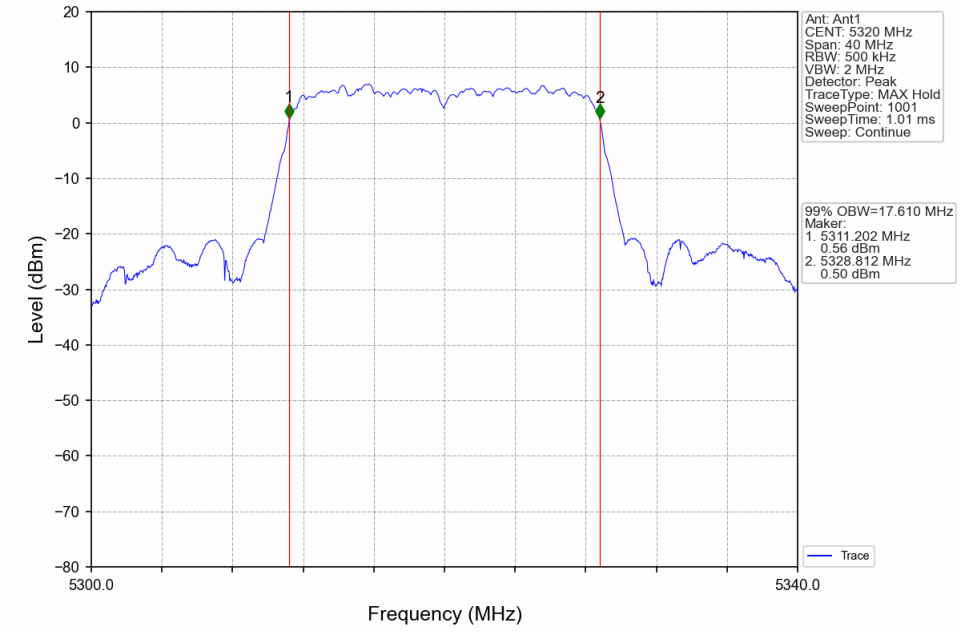

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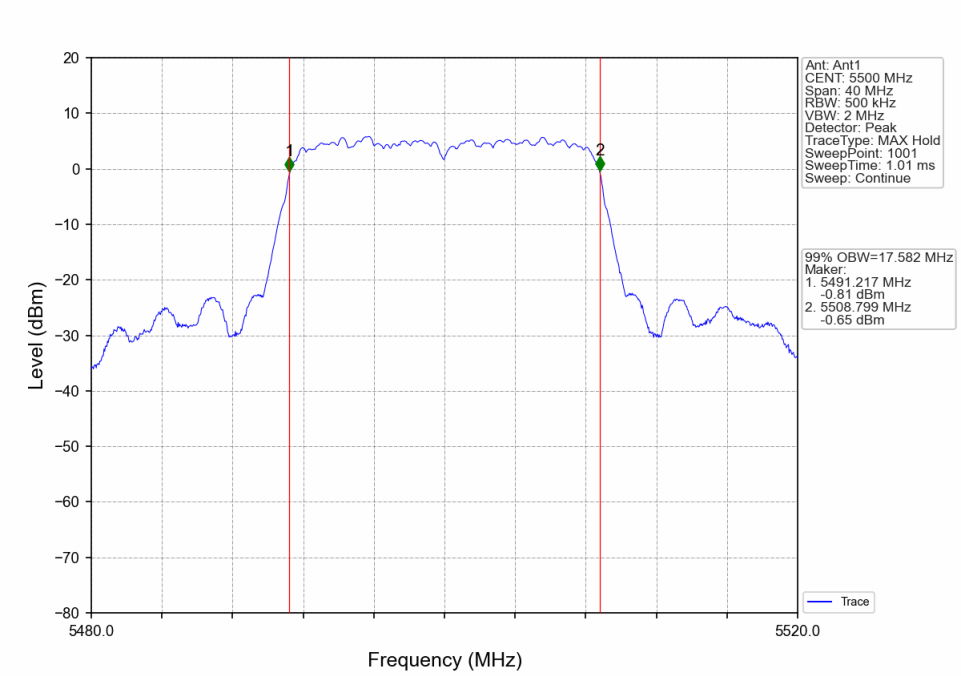
802.11ac(VHT20)_LCH_5500MHz_Ant2_NTNV



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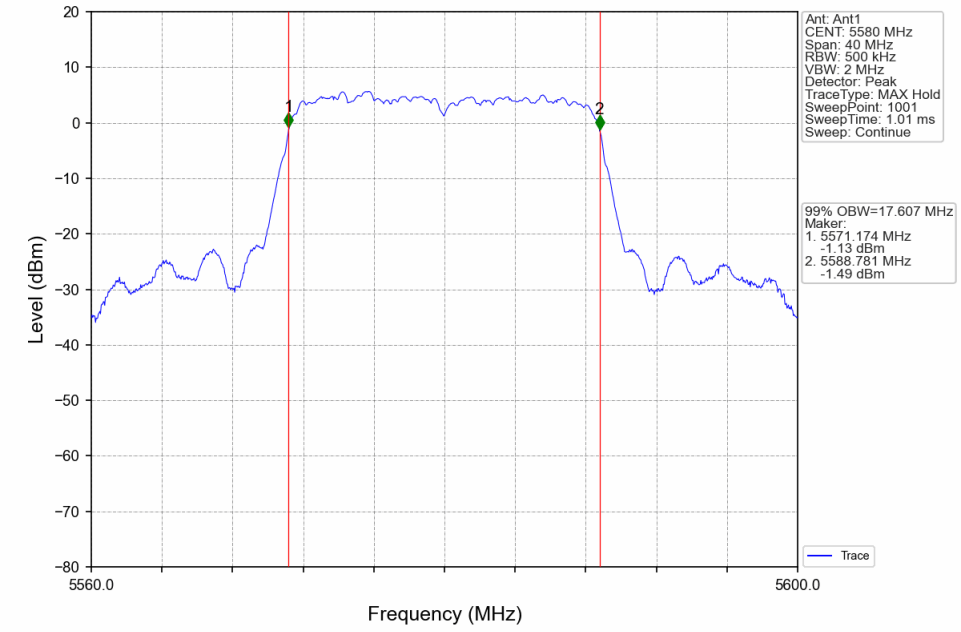

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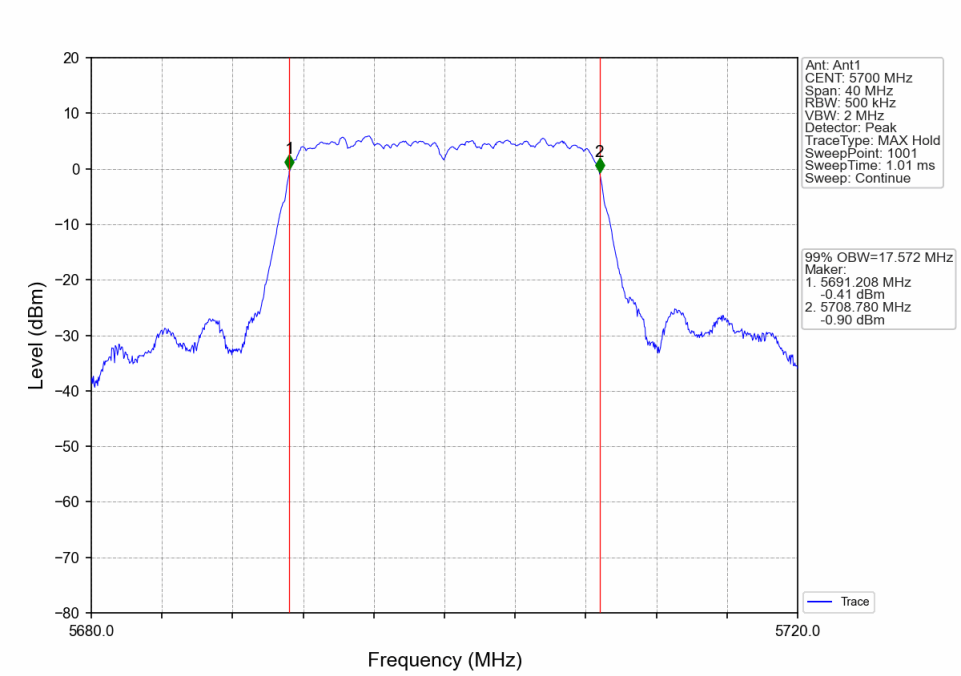
802.11ac(VHT20)_HCH_5700MHz_Ant2_NTNV



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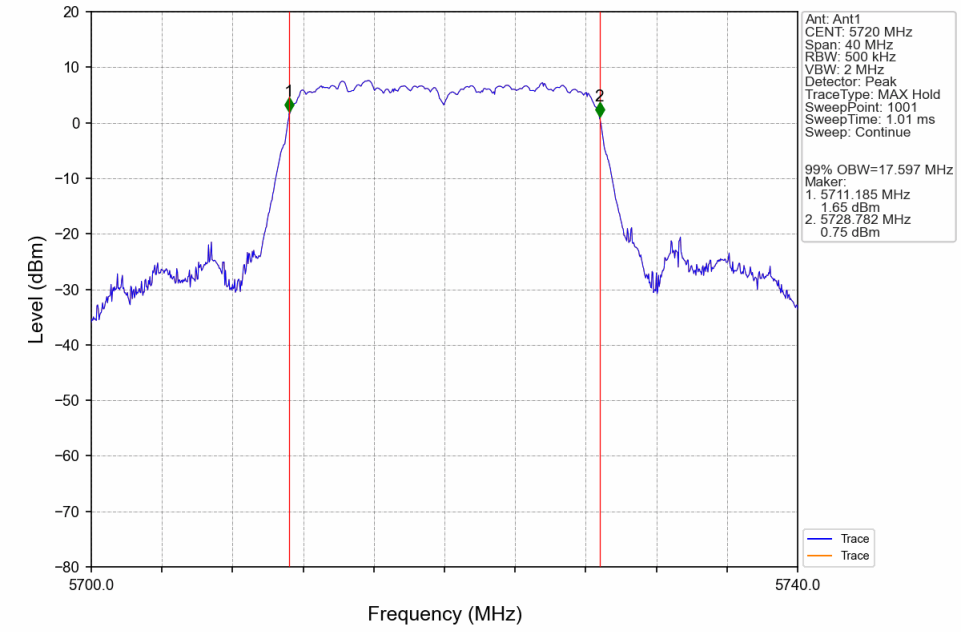

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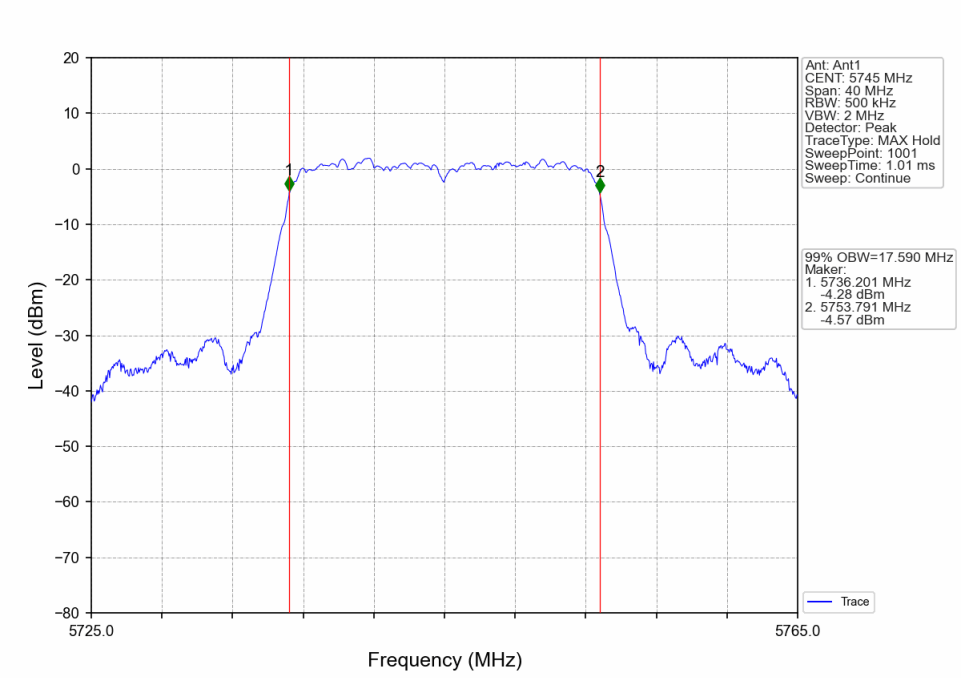
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



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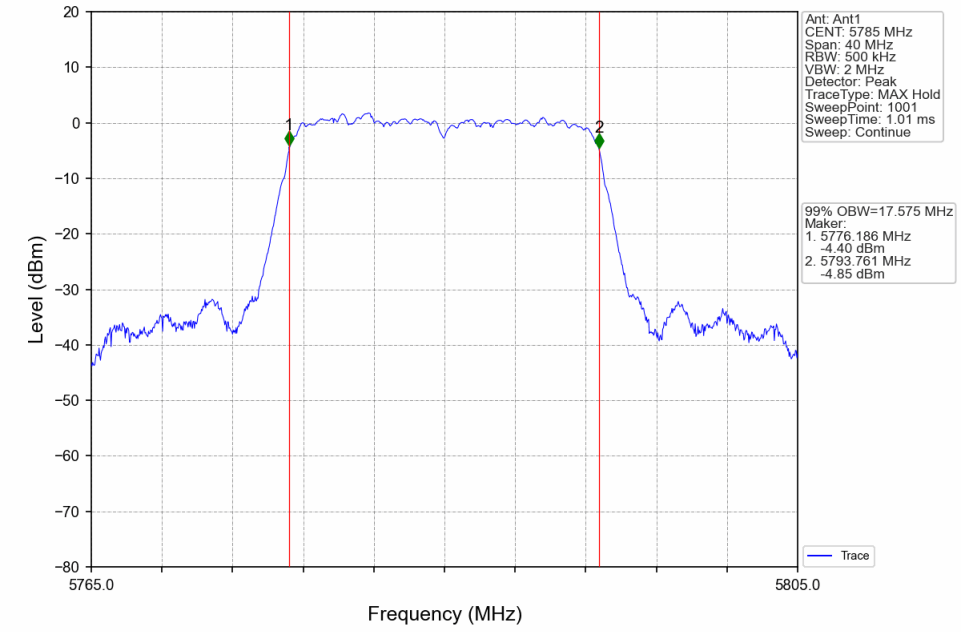

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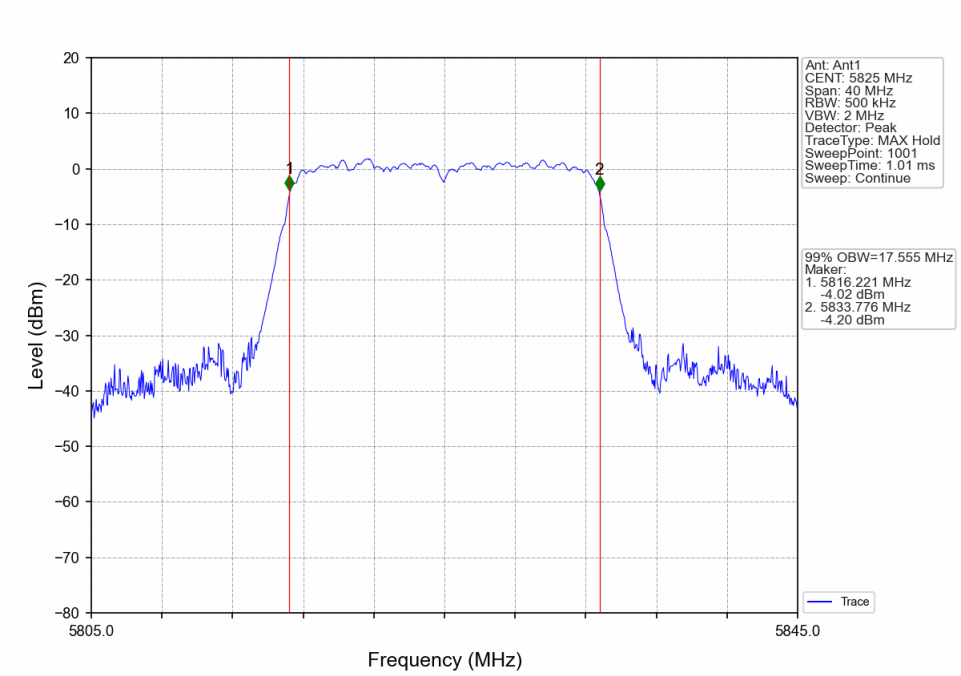
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



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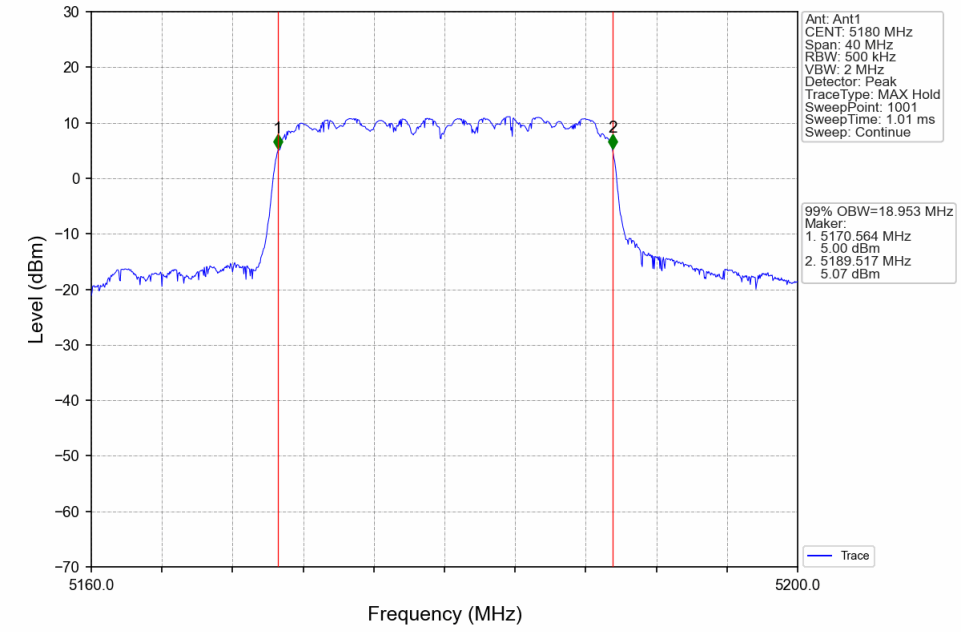

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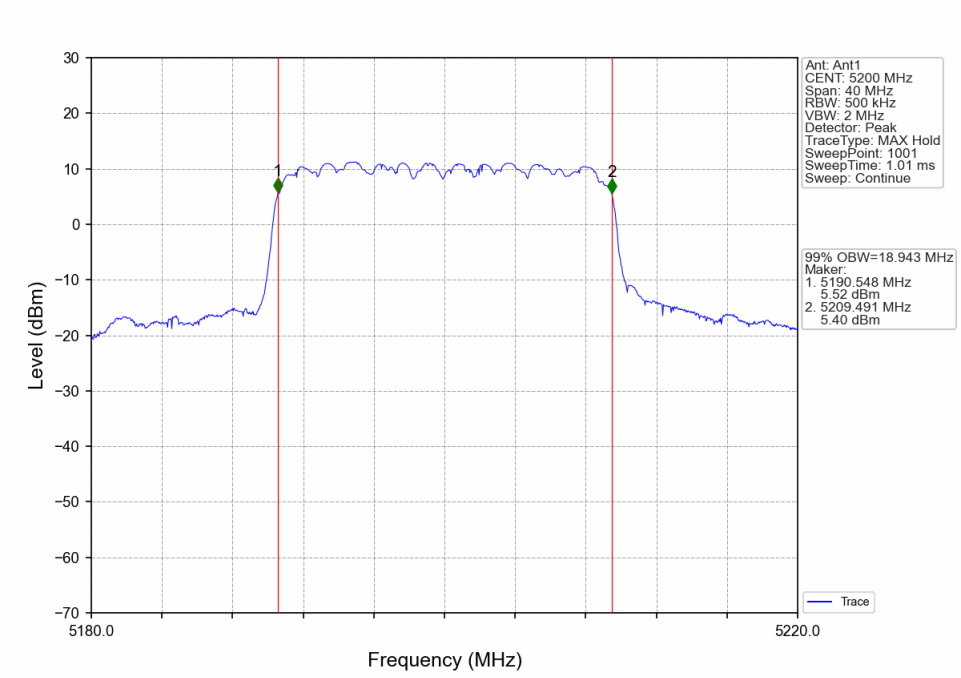
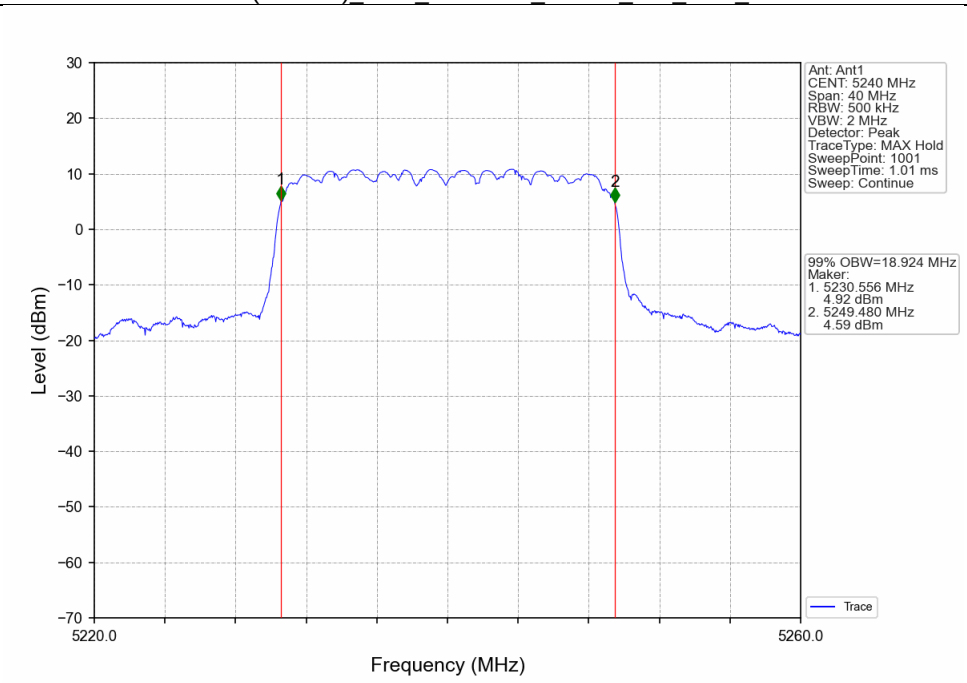
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant2_NTNV



802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant2_NTNV



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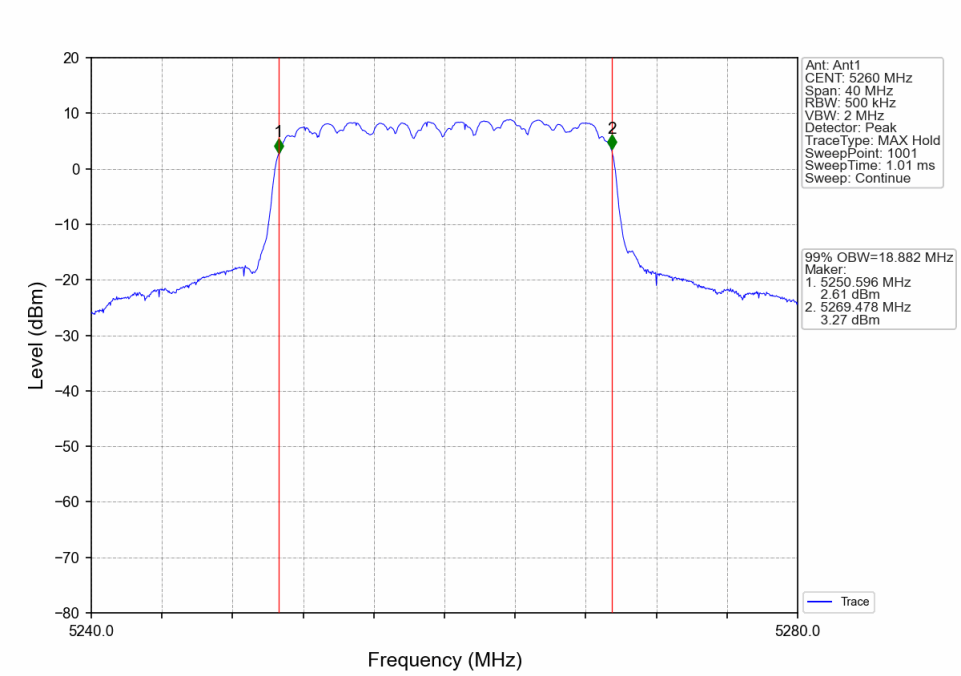
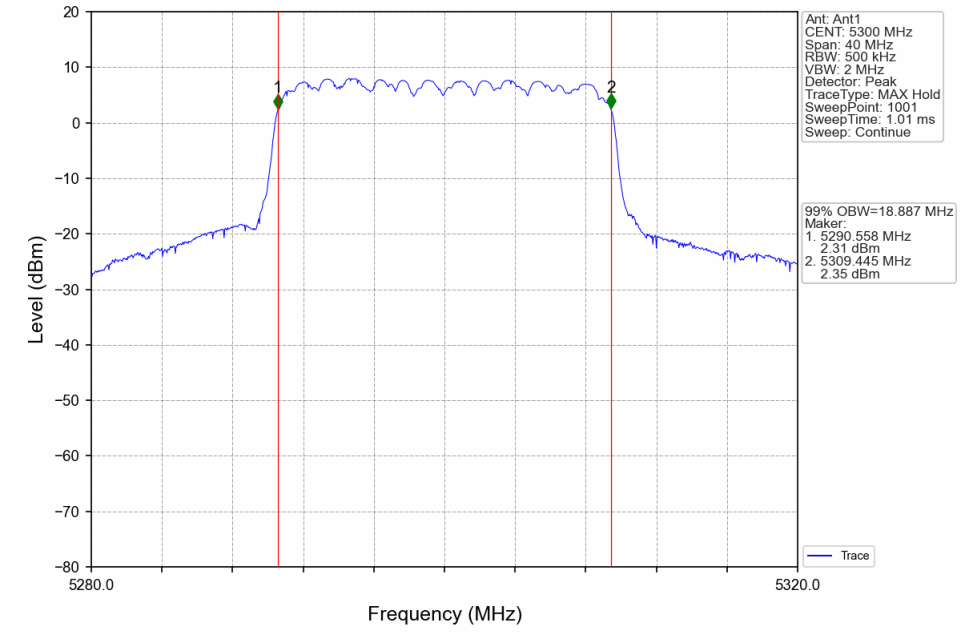
802.11ax(HEW20)_LCH_5260MHz_RU242_Left_Ant2_NTNV



802.11ax(HEW20)_MCH_5300MHz_RU242_Left_Ant2_NTNV



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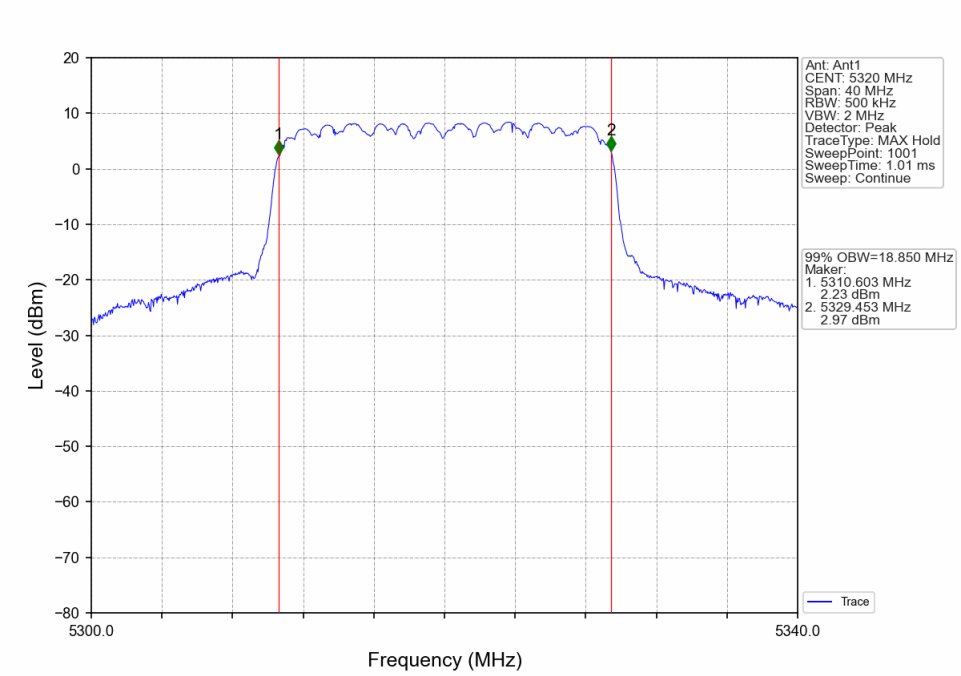
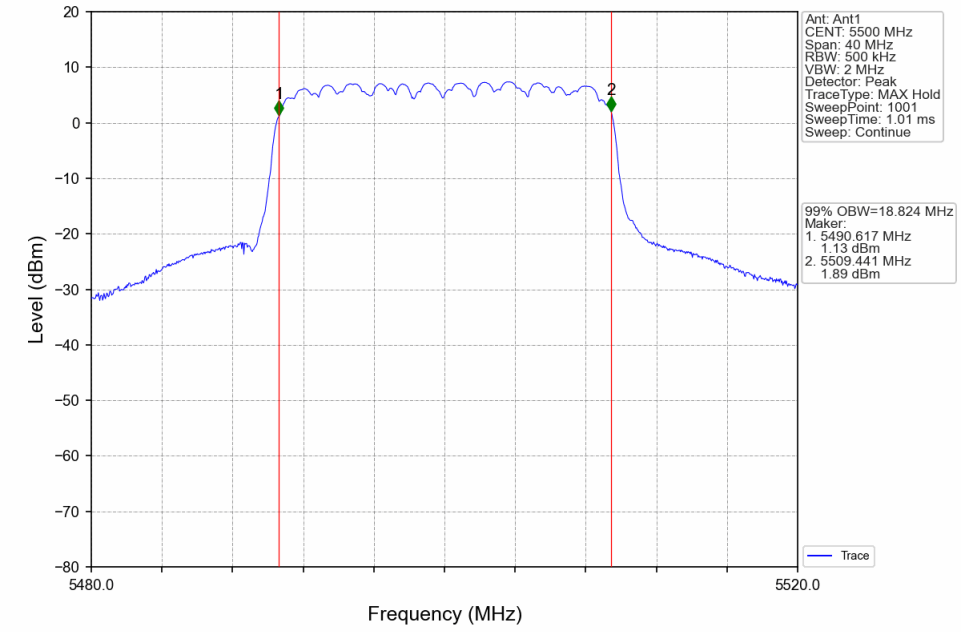
802.11ax(HEW20)_HCH_5320MHz_RU242_Left_Ant2_NTNV



802.11ax(HEW20)_LCH_5500MHz_RU242_Left_Ant2_NTNV



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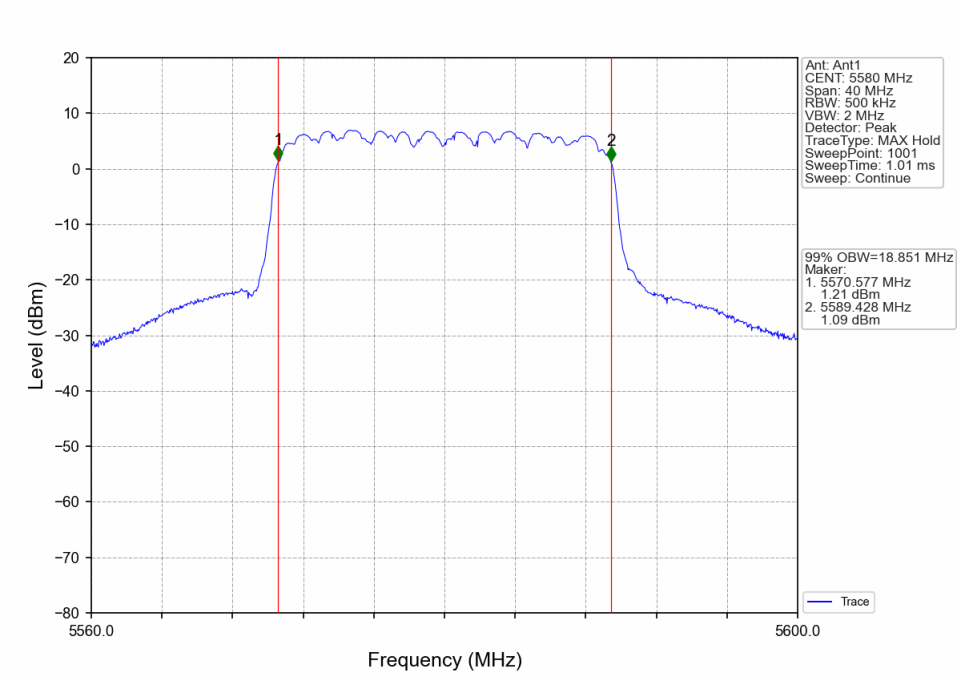
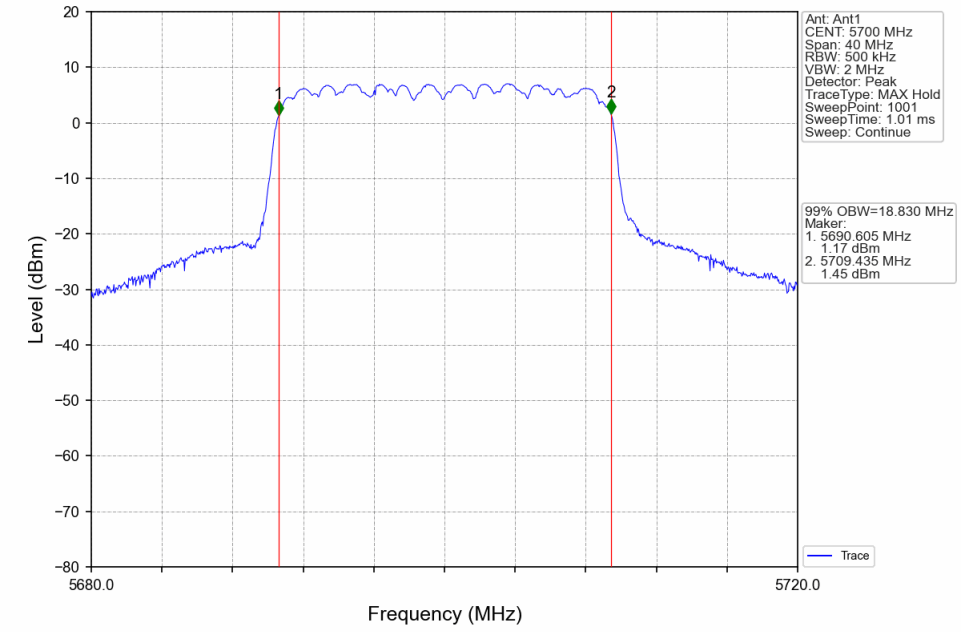
802.11ax(HEW20)_MCH_5580MHz_RU242_Left_Ant2_NTNV



802.11ax(HEW20)_HCH_5700MHz_RU242_Left_Ant2_NTNV



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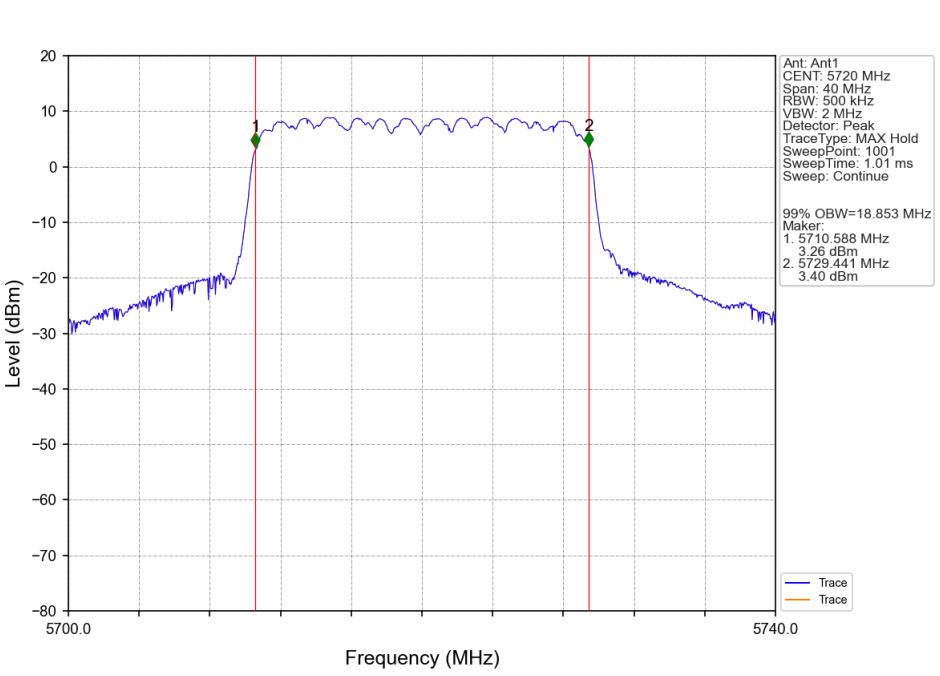
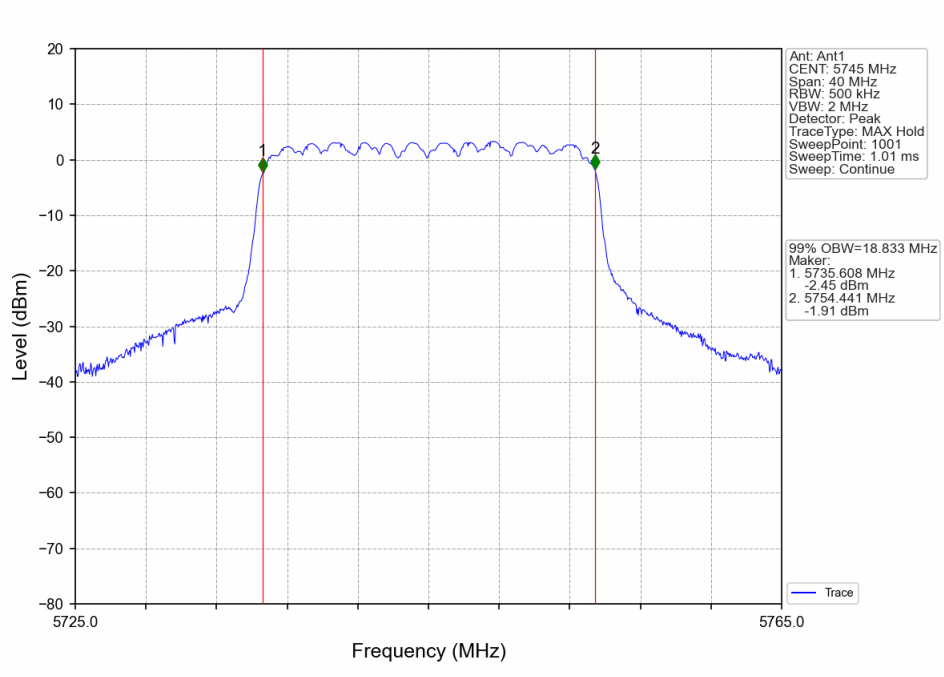
802.11ax(HEW20)_HCH_5720MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW20)_LCH_5745MHz_RU242_Left_Ant2_NTNV



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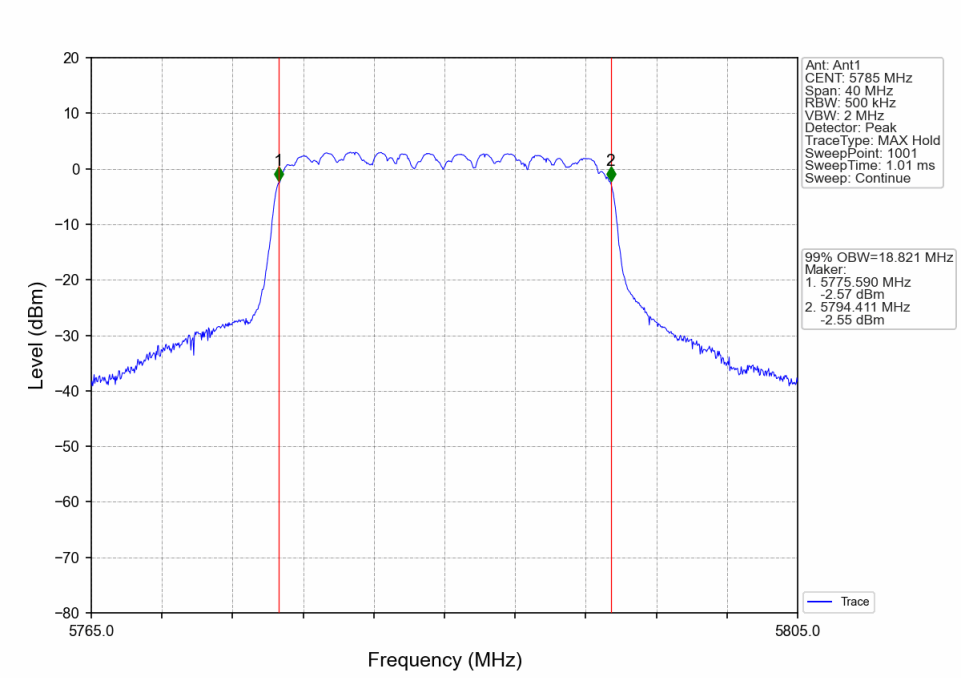
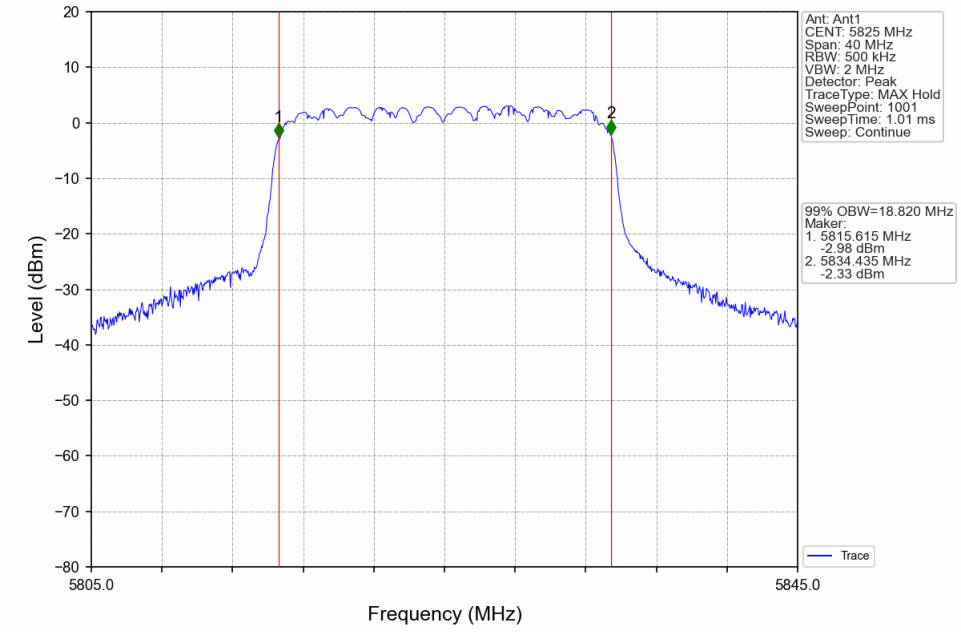
802.11ax(HEW20)_MCH_5785MHz_RU242_Left_Ant2_NTNV



802.11ax(HEW20)_HCH_5825MHz_RU242_Left_Ant2_NTNV



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8.3 Maximum conducted output power & EIRP

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 C63.10-2013.
(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%).

FCC 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.

ISED Limits:
Limits:
For client devices in the 5.15-5.25 GHz band,
a) the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 $\log_{10}$B dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands,
a) The maximum conducted output power shall not exceed 250 mW or 11 + 10 $\log_{10}$B dBm, whichever is less. B is the 99% emission bandwidth in megahertz.
b) The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 $\log_{10}$B dBm, whichever is less. B is the 99% emission bandwidth in megahertz.
For the band 5.725-5.85 GHz,
a) The maximum conducted output power shall not exceed 1W

Note:
1. Maximum Conducted Output Power=Conducted Output Power + Correction Factor
2. EIRP= Maximum Conducted Output Power + ANT Gain

Test result as below table

Mode	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Antenna Gain	EIRP (dBm)	ISED Limit (dBm)	Verdict
				ANT1	FCC Limit	**ANT 1**			
802.11a	5180	/	/	13.79	<=23.98	2.75	16.54	<=23	Pass
	5200	/	/	14.07	<=23.98	2.75	16.82	<=23	Pass
	5240	/	/	13.50	<=23.98	2.75	16.25	<=23	Pass
	5260	/	/	11.23	<=23.7	3.02	14.25	<=23.98	Pass
	5300	/	/	10.77	<=23.67	3.02	13.79	<=23.98	Pass
	5320	/	/	10.99	<=23.69	3.02	14.01	<=23.98	Pass
	5500	/	/	9.77	<=23.69	2.04	11.81	<=23.98	Pass
	5580	/	/	9.46	<=23.68	2.04	11.5	<=23.98	Pass
	5700	/	/	9.52	<=23.68	2.04	11.56	<=23.98	Pass
	5720	/	/	10.61	<=23.68	2.04	12.65	<=23.98	Pass
	5745	/	/	5.35	<=30	0.22	5.57	<=30	Pass
	5785	/	/	5.50	<=30	0.22	5.72	<=30	Pass
	5825	/	/	5.51	<=30	0.22	5.73	<=30	Pass
802.11n (HT20)	5180	/	/	13.75	<=23.98	2.75	16.5	<=23	Pass
	5200	/	/	14.03	<=23.98	2.75	16.78	<=23	Pass
	5240	/	/	13.59	<=23.98	2.75	16.34	<=23	Pass
	5260	/	/	11.39	<=23.93	3.02	14.41	<=23.98	Pass
	5300	/	/	10.91	<=23.91	3.02	13.93	<=23.98	Pass
	5320	/	/	11.10	<=23.92	3.02	14.12	<=23.98	Pass
	5500	/	/	9.87	<=23.92	2.04	11.91	<=23.98	Pass
	5580	/	/	9.58	<=23.91	2.04	11.62	<=23.98	Pass
	5700	/	/	9.59	<=23.93	2.04	11.63	<=23.98	Pass
	5720	/	/	11.28	<=23.91	2.04	13.32	<=23.98	Pass
	5745	/	/	5.66	<=30	0.22	5.88	<=30	Pass
	5785	/	/	5.55	<=30	0.22	5.77	<=30	Pass
	5825	/	/	5.67	<=30	0.22	5.89	<=30	Pass
802.11ac (VHT20)	5180	/	/	13.79	<=23.98	2.75	16.54	<=23	Pass
	5200	/	/	14.14	<=23.98	2.75	16.89	<=23	Pass
	5240	/	/	13.64	<=23.98	2.75	16.39	<=23	Pass
	5260	/	/	11.38	<=23.95	3.02	14.4	<=23.98	Pass
	5300	/	/	10.87	<=23.92	3.02	13.89	<=23.98	Pass
	5320	/	/	11.19	<=23.93	3.02	14.21	<=23.98	Pass
	5500	/	/	9.92	<=23.93	2.04	11.96	<=23.98	Pass
	5580	/	/	9.59	<=23.92	2.04	11.63	<=23.98	Pass
	5700	/	/	9.65	<=23.95	2.04	11.69	<=23.98	Pass
	5720	/	/	10.87	<=23.93	2.04	12.91	<=23.98	Pass
	5745	/	/	5.50	<=30	0.22	5.72	<=30	Pass
	5785	/	/	5.65	<=30	0.22	5.87	<=30	Pass
	5825	/	/	5.50	<=30	0.22	5.72	<=30	Pass
802.11ax (HEW20)	5180	RU26	Left	3.32	<=23.98	2.75	6.07	<=23.98	Pass
		RU52	Left	6.89	<=23.98	2.75	9.64	<=23.98	Pass
		RU106	Left	10.59	<=23.98	2.75	13.34	<=23.98	Pass
		RU242	Left	13.94	<=23.98	2.75	16.69	<=23.98	Pass
	5200	RU26	Mid	4.80	<=23.98	2.75	7.55	<=23.98	Pass
		RU52	Mid	7.93	<=23.98	2.75	10.68	<=23.98	Pass
		RU106	Left	11.10	<=23.98	2.75	13.85	<=23.98	Pass
		RU242	Left	14.33	<=23.98	2.75	**17.08**	<=23.98	Pass
	5240	RU26	Right	2.90	<=23.98	2.75	5.65	<=23.98	Pass
		RU52	Right	6.42	<=23.98	2.75	9.17	<=23.98	Pass
		RU106	Right	10.43	<=23.98	2.75	13.18	<=23.98	Pass
		RU242	Left	13.75	<=23.98	2.75	16.5	<=23.98	Pass
	5260	RU26	Left	-0.18	<=23.98	3.02	2.84	<=23.98	Pass
		RU52	Left	3.44	<=23.98	3.02	6.46	<=23.98	Pass
		RU106	Left	6.85	<=23.98	3.02	9.87	<=23.98	Pass
		RU242	Left	11.44	<=23.98	3.02	14.46	<=23.98	Pass
	5300	RU26	Mid	3.63	<=23.98	3.02	6.65	<=23.98	Pass
		RU52	Mid	3.90	<=23.98	3.02	6.92	<=23.98	Pass
		RU106	Left	6.63	<=23.98	3.02	9.65	<=23.98	Pass
		RU242	Left	9.91	<=23.98	3.02	12.93	<=23.98	Pass

	5320	RU26	Right	-0.21	<=23.98	3.02	2.81	<=23.98	Pass
		RU52	Right	3.31	<=23.98	3.02	6.33	<=23.98	Pass
		RU106	Right	6.63	<=23.98	3.02	9.65	<=23.98	Pass
		RU242	Left	11.17	<=23.98	3.02	14.19	<=23.98	Pass
	5500	RU26	Left	-1.99	<=23.98	2.04	0.05	<=23.98	Pass
		RU52	Left	1.62	<=23.98	2.04	3.66	<=23.98	Pass
		RU106	Left	6.24	<=23.98	2.04	8.28	<=23.98	Pass
		RU242	Left	9.89	<=23.98	2.04	11.93	<=23.98	Pass
	5580	RU26	Mid	-1.93	<=23.98	2.04	0.11	<=23.98	Pass
		RU52	Mid	1.73	<=23.98	2.04	3.77	<=23.98	Pass
		RU106	Left	5.24	<=23.98	2.04	7.28	<=23.98	Pass
		RU242	Left	9.63	<=23.98	2.04	11.67	<=23.98	Pass
	5700	RU26	Right	-1.90	<=23.98	2.04	0.14	<=23.98	Pass
		RU52	Right	1.68	<=23.98	2.04	3.72	<=23.98	Pass
		RU106	Right	5.14	<=23.98	2.04	7.18	<=23.98	Pass
		RU242	Left	9.70	<=23.98	2.04	11.74	<=23.98	Pass
	5720	RU26	Right	-3.73	<=23.98	2.04	-1.69	<=23.98	Pass
		RU52	Right	2.94	<=23.98	2.04	4.98	<=23.98	Pass
		RU106	Right	6.33	<=23.98	2.04	8.37	<=23.98	Pass
		RU242	Left	9.71	<=23.98	2.04	11.75	<=23.98	Pass
	5745	RU26	Left	4.83	<=30	0.22	5.05	<=30	Pass
		RU52	Left	5.39	<=30	0.22	5.61	<=30	Pass
		RU106	Left	5.67	<=30	0.22	5.89	<=30	Pass
		RU242	Left	5.68	<=30	0.22	5.9	<=30	Pass
	5785	RU26	Mid	5.82	<=30	0.22	6.04	<=30	Pass
		RU52	Mid	5.82	<=30	0.22	6.04	<=30	Pass
		RU106	Left	5.49	<=30	0.22	5.71	<=30	Pass
		RU242	Left	5.40	<=30	0.22	5.62	<=30	Pass
	5825	RU26	Right	5.11	<=30	0.22	5.33	<=30	Pass
		RU52	Right	5.57	<=30	0.22	5.79	<=30	Pass
		RU106	Right	5.86	<=30	0.22	6.08	<=30	Pass
		RU242	Left	5.71	<=30	0.22	5.93	<=30	Pass

Mode	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Antenna Gain	EIRP (dBm)	ISED Limit (dBm)	Verdict
				ANT2	Limit	**ANT 2**			
802.11a	5180	/	/	14.51	<=23.98	2.11	16.62	<=23	Pass
	5200	/	/	14.45	<=23.98	2.11	16.56	<=23	Pass
	5240	/	/	13.94	<=23.98	2.11	16.05	<=23	Pass
	5260	/	/	12.01	<=23.69	3.42	15.43	<=23.98	Pass
	5300	/	/	11.16	<=23.68	3.42	14.58	<=23.98	Pass
	5320	/	/	11.64	<=23.68	3.42	15.06	<=23.98	Pass
	5500	/	/	10.65	<=23.68	4.54	15.19	<=23.98	Pass
	5580	/	/	10.28	<=23.68	4.54	14.82	<=23.98	Pass
	5700	/	/	10.56	<=23.69	4.54	15.1	<=23.98	Pass
	5720	/	/	12.09	<=23.68	4.54	16.63	<=23.98	Pass
	5745	/	/	6.68	<=30	3.05	9.73	<=30	Pass
	5785	/	/	6.20	<=30	3.05	9.25	<=30	Pass
	5825	/	/	6.58	<=30	3.05	9.63	<=30	Pass
802.11n (HT20)	5180	/	/	14.55	<=23.98	2.11	16.66	<=23	Pass
	5200	/	/	14.54	<=23.98	2.11	16.65	<=23	Pass
	5240	/	/	14.07	<=23.98	2.11	16.18	<=23	Pass
	5260	/	/	12.08	<=23.93	3.42	15.5	<=23.98	Pass
	5300	/	/	11.27	<=23.93	3.42	14.69	<=23.98	Pass
	5320	/	/	11.73	<=23.91	3.42	15.15	<=23.98	Pass
	5500	/	/	10.41	<=23.92	4.54	14.95	<=23.98	Pass
	5580	/	/	10.19	<=23.92	4.54	14.73	<=23.98	Pass
	5700	/	/	10.54	<=23.91	4.54	15.08	<=23.98	Pass
	5720	/	/	12.56	<=23.92	4.54	**17.1**	<=23.98	Pass
	5745	/	/	6.50	<=30	3.05	9.55	<=30	Pass
	5785	/	/	6.06	<=30	3.05	9.11	<=30	Pass
	5825	/	/	6.62	<=30	3.05	9.67	<=30	Pass
802.11ac (VHT20)	5180	/	/	14.61	<=23.98	2.11	16.72	<=23	Pass
	5200	/	/	14.53	<=23.98	2.11	16.64	<=23	Pass

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	5240	/	/	14.00	<=23.98	2.11	16.11	<=23	Pass
	5260	/	/	11.97	<=23.94	3.42	15.39	<=23.98	Pass
	5300	/	/	11.29	<=23.94	3.42	14.71	<=23.98	Pass
	5320	/	/	11.59	<=23.92	3.42	15.01	<=23.98	Pass
	5500	/	/	10.67	<=23.93	4.54	15.21	<=23.98	Pass
	5580	/	/	10.26	<=23.93	4.54	14.8	<=23.98	Pass
	5700	/	/	10.60	<=23.93	4.54	15.14	<=23.98	Pass
	5720	/	/	12.31	<=23.45	4.54	16.85	<=23.98	Pass
	5745	/	/	6.80	<=30	3.05	9.85	<=30	Pass
	5785	/	/	6.26	<=30	3.05	9.31	<=30	Pass
	5825	/	/	6.56	<=30	3.05	9.61	<=30	Pass
802.11ax (HEW20)	5180	RU26	Left	3.51	<=23.98	2.11	5.62	<=23.98	Pass
		RU52	Left	7.10	<=23.98	2.11	9.21	<=23.98	Pass
		RU106	Left	10.99	<=23.98	2.11	13.1	<=23.98	Pass
		RU242	Left	14.39	<=23.98	2.11	16.5	<=23.98	Pass
	5200	RU26	Mid	4.90	<=23.98	2.11	7.01	<=23.98	Pass
		RU52	Mid	8.10	<=23.98	2.11	10.21	<=23.98	Pass
		RU106	Left	11.33	<=23.98	2.11	13.44	<=23.98	Pass
		RU242	Left	14.49	<=23.98	2.11	16.6	<=23.98	Pass
	5240	RU26	Right	3.28	<=23.98	2.11	5.39	<=23.98	Pass
		RU52	Right	7.82	<=23.98	2.11	9.93	<=23.98	Pass
		RU106	Right	11.90	<=23.98	2.11	14.01	<=23.98	Pass
		RU242	Left	14.03	<=23.98	2.11	16.14	<=23.98	Pass
	5260	RU26	Left	0.00	<=23.98	3.42	3.42	<=23.98	Pass
		RU52	Left	3.54	<=23.98	3.42	6.96	<=23.98	Pass
		RU106	Left	7.09	<=23.98	3.42	10.51	<=23.98	Pass
		RU242	Left	12.00	<=23.98	3.42	15.42	<=23.98	Pass
	5300	RU26	Mid	0.78	<=23.98	3.42	4.2	<=23.98	Pass
		RU52	Mid	3.98	<=23.98	3.42	7.4	<=23.98	Pass
		RU106	Left	6.76	<=23.98	3.42	10.18	<=23.98	Pass
		RU242	Left	11.21	<=23.98	3.42	14.63	<=23.98	Pass
	5320	RU26	Right	0.19	<=23.98	3.42	3.61	<=23.98	Pass
		RU52	Right	3.66	<=23.98	3.42	7.08	<=23.98	Pass
		RU106	Right	7.13	<=23.98	3.42	10.55	<=23.98	Pass
		RU242	Left	11.68	<=23.98	3.42	15.1	<=23.98	Pass
	5500	RU26	Left	-1.23	<=23.98	4.54	3.31	<=23.98	Pass
		RU52	Left	2.48	<=23.98	4.54	7.02	<=23.98	Pass
		RU106	Left	6.05	<=23.98	4.54	10.59	<=23.98	Pass
		RU242	Left	10.63	<=23.98	4.54	15.17	<=23.98	Pass
	5580	RU26	Mid	-0.08	<=23.98	4.54	4.46	<=23.98	Pass
		RU52	Mid	3.18	<=23.98	4.54	7.72	<=23.98	Pass
		RU106	Left	5.92	<=23.98	4.54	10.46	<=23.98	Pass
		RU242	Left	10.22	<=23.98	4.54	14.76	<=23.98	Pass
	5700	RU26	Right	-1.08	<=23.98	4.54	3.46	<=23.98	Pass
		RU52	Right	2.48	<=23.98	4.54	7.02	<=23.98	Pass
		RU106	Right	6.03	<=23.98	4.54	10.57	<=23.98	Pass
		RU242	Left	10.37	<=23.98	4.54	14.91	<=23.98	Pass
	5720	RU26	Right	0.58	<=23.75	4.54	5.12	<=23.98	Pass
		RU52	Right	4.29	<=23.75	4.54	8.83	<=23.98	Pass
		RU106	Right	7.62	<=23.75	4.54	12.16	<=23.98	Pass
		RU242	Left	12.25	<=23.75	4.54	16.79	<=23.98	Pass
	5745	RU26	Left	5.63	<=30	3.05	8.68	<=30	Pass
		RU52	Left	6.15	<=30	3.05	9.2	<=30	Pass
		RU106	Left	6.48	<=30	3.05	9.53	<=30	Pass
		RU242	Left	6.67	<=30	3.05	9.72	<=30	Pass
	5785	RU26	Mid	6.55	<=30	3.05	9.6	<=30	Pass
		RU52	Mid	6.66	<=30	3.05	9.71	<=30	Pass
		RU106	Left	6.33	<=30	3.05	9.38	<=30	Pass
		RU242	Left	6.25	<=30	3.05	9.3	<=30	Pass
	5825	RU26	Right	5.46	<=30	3.05	8.51	<=30	Pass
		RU52	Right	5.95	<=30	3.05	9	<=30	Pass
		RU106	Right	6.44	<=30	3.05	9.49	<=30	Pass
		RU242	Left	6.43	<=30	3.05	9.48	<=30	Pass

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8.4 Maximum power spectral density

Test Method (Method SA-2 in C63.10-2013)

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:
FCC Limits:
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.

ISED Limits:
The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band for 5.15-5.25GHz.
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band for 5.25-5.35GHz and 5.47-5.725 GHz;
The output power spectral density shall not exceed 30 dBm in any 500 kHz band for 5725-5850MHz.

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Test Result

Mode	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)		Verdict
				ANT1	Limit	
802.11a	5180	/	/	2.95	<=11	Pass
	5200	/	/	3.31	<=11	Pass
	5240	/	/	2.66	<=11	Pass
	5260	/	/	0.58	<=11	Pass
	5300	/	/	0.25	<=11	Pass
	5320	/	/	0.24	<=11	Pass
	5500	/	/	-0.93	<=11	Pass
	5580	/	/	-1.25	<=11	Pass
	5700	/	/	-1.22	<=11	Pass
	5720	/	/	0.08	<=11	Pass
802.11n (HT20)	5180	/	/	2.82	<=11	Pass
	5200	/	/	3.20	<=11	Pass
	5240	/	/	2.60	<=11	Pass
	5260	/	/	0.53	<=11	Pass
	5300	/	/	0.24	<=11	Pass
	5320	/	/	0.15	<=11	Pass
	5500	/	/	-1.03	<=11	Pass
	5580	/	/	-1.25	<=11	Pass
	5700	/	/	-1.40	<=11	Pass
	5720	/	/	0.35	<=11	Pass
802.11ac (VHT20)	5180	/	/	2.92	<=11	Pass
	5200	/	/	3.30	<=11	Pass
	5240	/	/	2.69	<=11	Pass
	5260	/	/	0.37	<=11	Pass
	5300	/	/	0.08	<=11	Pass
	5320	/	/	0.18	<=11	Pass
	5500	/	/	-0.87	<=11	Pass
	5580	/	/	-1.20	<=11	Pass
	5700	/	/	-1.32	<=11	Pass
	5720	/	/	-0.03	<=11	Pass
802.11ax (HEW20)	5180	RU26	Left	1.78	<=11	Pass
		RU52	Left	2.18	<=11	Pass
		RU106	Left	2.90	<=11	Pass
		RU242	Left	2.91	<=11	Pass
	5200	RU26	Mid	1.47	<=11	Pass
		RU52	Mid	2.95	<=11	Pass
		RU106	Left	3.41	<=11	Pass
		RU242	Left	3.14	<=11	Pass
	5240	RU26	Right	0.99	<=11	Pass
		RU52	Right	1.66	<=11	Pass
		RU106	Right	2.71	<=11	Pass
		RU242	Left	2.56	<=11	Pass
	5260	RU26	Left	-1.67	<=11	Pass
		RU52	Left	-1.23	<=11	Pass
		RU106	Left	-0.94	<=11	Pass
		RU242	Left	0.18	<=11	Pass
	5300	RU26	Mid	0.41	<=11	Pass
		RU52	Mid	-1.06	<=11	Pass
		RU106	Left	-0.94	<=11	Pass
		RU242	Left	-1.03	<=11	Pass
	5320	RU26	Right	-2.16	<=11	Pass
		RU52	Right	-1.45	<=11	Pass
		RU106	Right	-1.12	<=11	Pass
		RU242	Left	0.00	<=11	Pass
	5500	RU26	Left	-3.66	<=11	Pass
		RU52	Left	-2.99	<=11	Pass
		RU106	Left	-1.44	<=11	Pass
		RU242	Left	-1.15	<=11	Pass

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	5580	RU26	Mid	-3.86	<=11	Pass
		RU52	Mid	-3.01	<=11	Pass
		RU106	Left	-2.35	<=11	Pass
		RU242	Left	-1.53	<=11	Pass
	5700	RU26	Right	-3.57	<=11	Pass
		RU52	Right	-2.93	<=11	Pass
		RU106	Right	-2.52	<=11	Pass
		RU242	Left	-1.32	<=11	Pass
	5720	RU26	Right	-27.45	<=11	Pass
		RU52	Right	-10.10	<=11	Pass
		RU106	Right	-1.39	<=11	Pass
		RU242	Left	-13.22	<=11	Pass

Mode	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)		Verdict
				ANT1	Limit	
802.11a	5745	/	/	-8.38	<=30	Pass
	5785	/	/	-8.26	<=30	Pass
	5825	/	/	-8.03	<=30	Pass
802.11n (HT20)	5745	/	/	-8.19	<=30	Pass
	5785	/	/	-8.18	<=30	Pass
	5825	/	/	-8.11	<=30	Pass
802.11ac (VHT20)	5745	/	/	-8.25	<=30	Pass
	5785	/	/	-8.22	<=30	Pass
	5825	/	/	-8.40	<=30	Pass
802.11ax (HEW20)	5745	RU26	Left	0.63	<=30	Pass
		RU52	Left	-2.18	<=30	Pass
		RU106	Left	-4.96	<=30	Pass
		RU242	Left	-8.46	<=30	Pass
	5785	RU26	Mid	0.60	<=30	Pass
		RU52	Mid	-2.21	<=30	Pass
		RU106	Left	-5.00	<=30	Pass
		RU242	Left	-8.40	<=30	Pass
	5825	RU26	Right	0.42	<=30	Pass
		RU52	Right	-2.14	<=30	Pass
		RU106	Right	-4.91	<=30	Pass
		RU242	Left	-8.35	<=30	Pass

Mode	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)		Verdict
				ANT2	Limit	
802.11a	5180	/	/	3.77	<=11	Pass
	5200	/	/	3.78	<=11	Pass
	5240	/	/	3.22	<=11	Pass
	5260	/	/	1.32	<=11	Pass
	5300	/	/	0.69	<=11	Pass
	5320	/	/	0.98	<=11	Pass
	5500	/	/	0.02	<=11	Pass
	5580	/	/	-0.39	<=11	Pass
	5700	/	/	-0.24	<=11	Pass
	5720	/	/	1.28	<=11	Pass
802.11n (HT20)	5180	/	/	3.76	<=11	Pass
	5200	/	/	3.66	<=11	Pass
	5240	/	/	3.13	<=11	Pass
	5260	/	/	1.33	<=11	Pass
	5300	/	/	0.63	<=11	Pass
	5320	/	/	0.84	<=11	Pass
	5500	/	/	-0.53	<=11	Pass
	5580	/	/	-0.55	<=11	Pass
	5700	/	/	-0.23	<=11	Pass
	5720	/	/	1.59	<=11	Pass
802.11ac (VHT20)	5180	/	/	3.62	<=11	Pass
	5200	/	/	3.79	<=11	Pass
	5240	/	/	3.04	<=11	Pass
	5260	/	/	1.10	<=11	Pass
	5300	/	/	0.28	<=11	Pass

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	5320	/	/	0.63	<=11	Pass
	5500	/	/	-0.20	<=11	Pass
	5580	/	/	-0.60	<=11	Pass
	5700	/	/	-0.23	<=11	Pass
	5720	/	/	1.42	<=11	Pass
802.11ax (HEW20)	5180	RU26	Left	1.71	<=11	Pass
		RU52	Left	2.55	<=11	Pass
		RU106	Left	3.21	<=11	Pass
		RU242	Left	3.31	<=11	Pass
	5200	RU26	Mid	1.61	<=11	Pass
		RU52	Mid	3.15	<=11	Pass
		RU106	Left	3.71	<=11	Pass
		RU242	Left	3.32	<=11	Pass
	5240	RU26	Right	1.38	<=11	Pass
		RU52	Right	2.65	<=11	Pass
		RU106	Right	4.22	<=11	Pass
		RU242	Left	2.73	<=11	Pass
	5260	RU26	Left	-1.66	<=11	Pass
		RU52	Left	-1.05	<=11	Pass
		RU106	Left	-0.63	<=11	Pass
		RU242	Left	0.98	<=11	Pass
	5300	RU26	Mid	-2.62	<=11	Pass
		RU52	Mid	-0.98	<=11	Pass
		RU106	Left	-0.88	<=11	Pass
		RU242	Left	0.27	<=11	Pass
	5320	RU26	Right	-1.80	<=11	Pass
		RU52	Right	-0.95	<=11	Pass
		RU106	Right	-0.67	<=11	Pass
		RU242	Left	0.63	<=11	Pass
	5500	RU26	Left	-2.87	<=11	Pass
		RU52	Left	-2.10	<=11	Pass
		RU106	Left	-1.60	<=11	Pass
		RU242	Left	-0.49	<=11	Pass
	5580	RU26	Mid	-3.38	<=11	Pass
		RU52	Mid	-1.89	<=11	Pass
		RU106	Left	-1.78	<=11	Pass
		RU242	Left	-0.86	<=11	Pass
	5700	RU26	Right	-2.92	<=11	Pass
		RU52	Right	-2.10	<=11	Pass
		RU106	Right	-1.54	<=11	Pass
		RU242	Left	-0.70	<=11	Pass
	5720	RU26	Right	-22.63	<=11	Pass
		RU52	Right	-8.43	<=11	Pass
		RU106	Right	0.09	<=11	Pass
		RU242	Left	1.09	<=11	Pass

Mode	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)		Verdict
				ANT2	Limit	
802.11a	5745	/	/	-7.00	<=30	Pass
	5785	/	/	-7.24	<=30	Pass
	5825	/	/	-7.06	<=30	Pass
802.11n (HT20)	5745	/	/	-7.49	<=30	Pass
	5785	/	/	-7.61	<=30	Pass
	5825	/	/	-7.20	<=30	Pass
802.11ac (VHT20)	5745	/	/	-7.16	<=30	Pass
	5785	/	/	-7.45	<=30	Pass
	5825	/	/	-7.12	<=30	Pass
802.11ax (HEW20)	5745	RU26	Left	1.04	<=30	Pass
		RU52	Left	-1.38	<=30	Pass
		RU106	Left	-4.20	<=30	Pass
		RU242	Left	-7.43	<=30	Pass
	5785	RU26	Mid	1.21	<=30	Pass
		RU52	Mid	-1.38	<=30	Pass
		RU106	Left	-4.42	<=30	Pass

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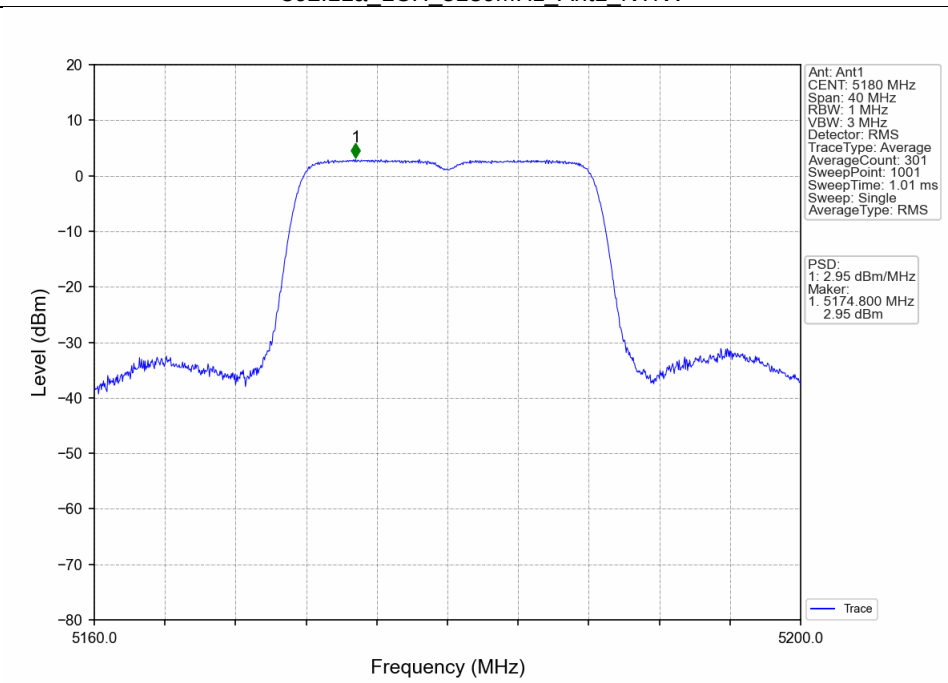
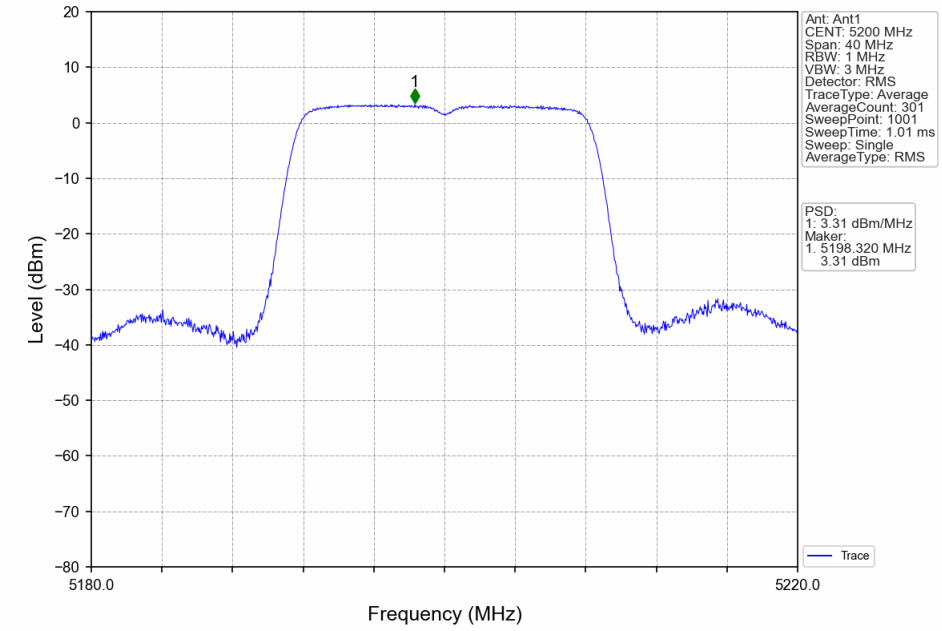
		RU242	Left	-7.78	<=30	Pass
	5825	RU26	Right	0.89	<=30	Pass
		RU52	Right	-1.41	<=30	Pass
		RU106	Right	-4.32	<=30	Pass
		RU242	Left	-7.62	<=30	Pass

Test Graphs

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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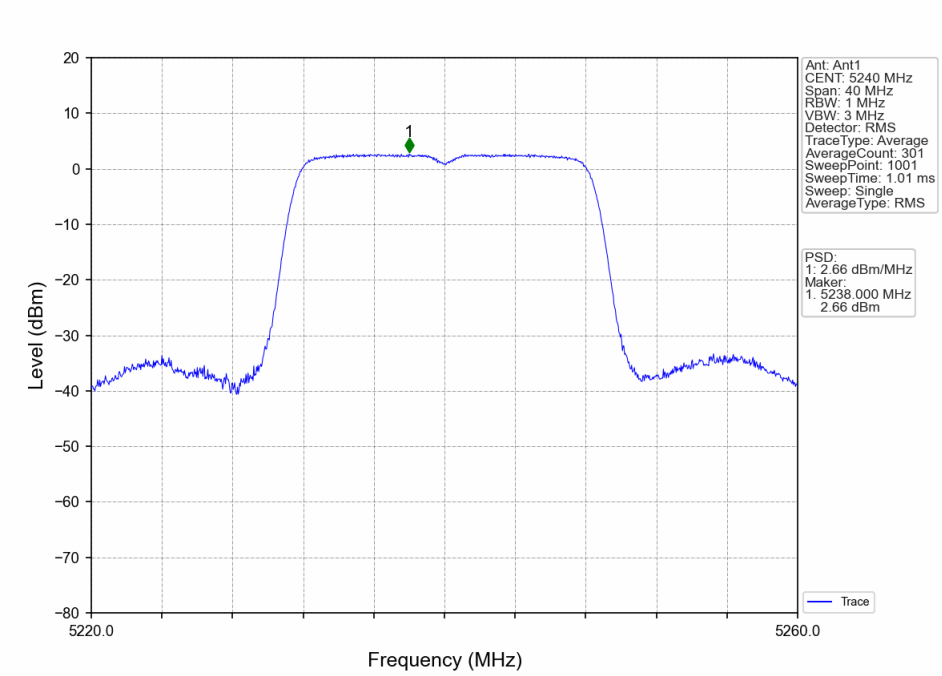
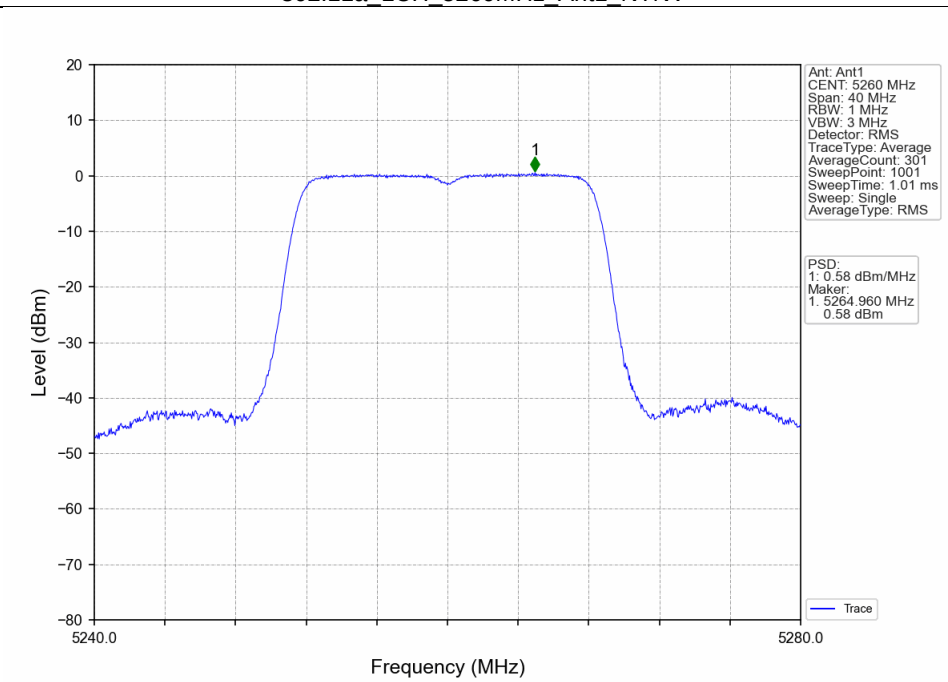
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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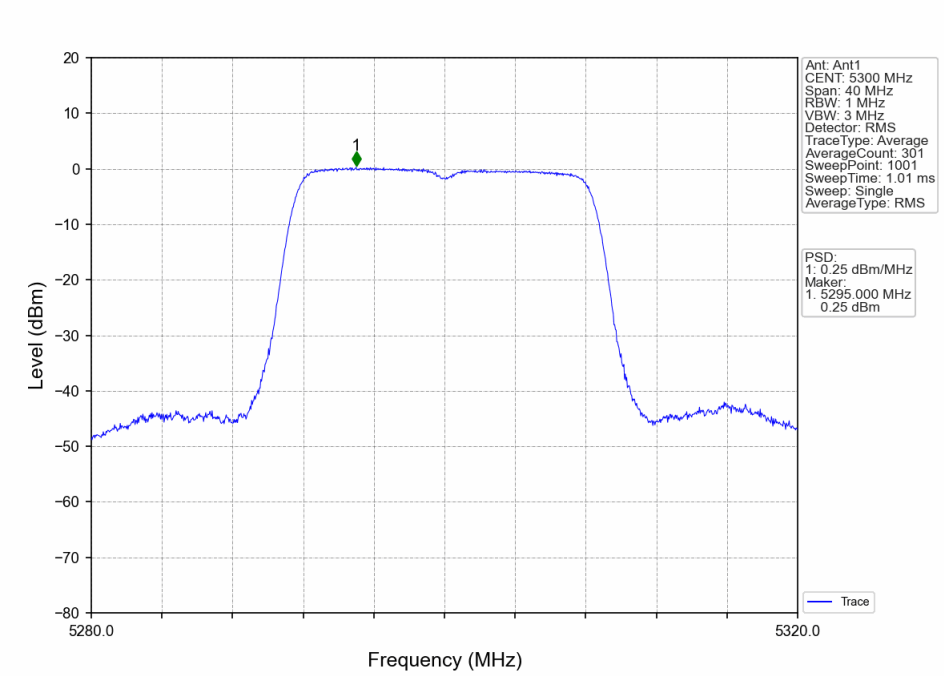
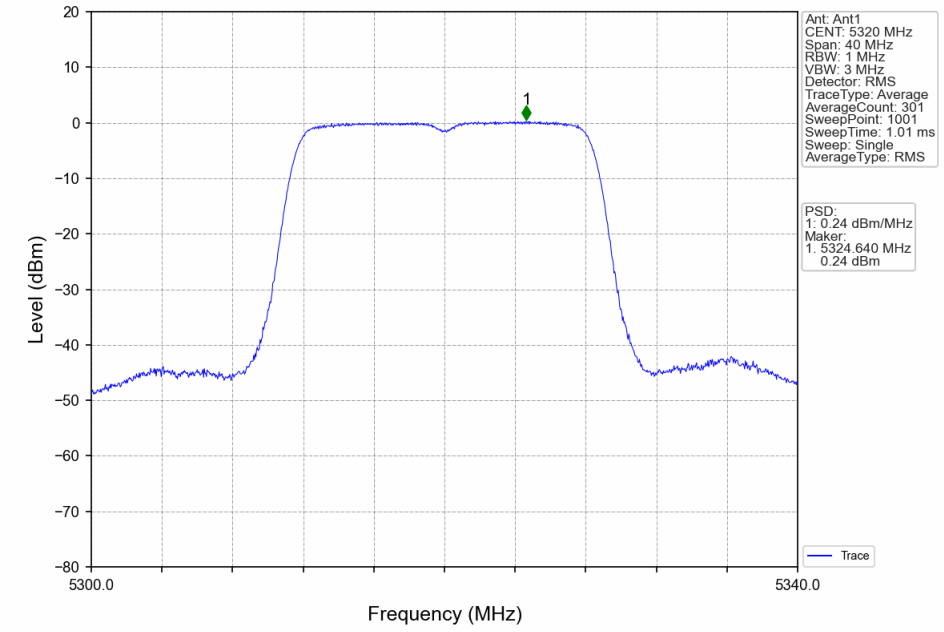
802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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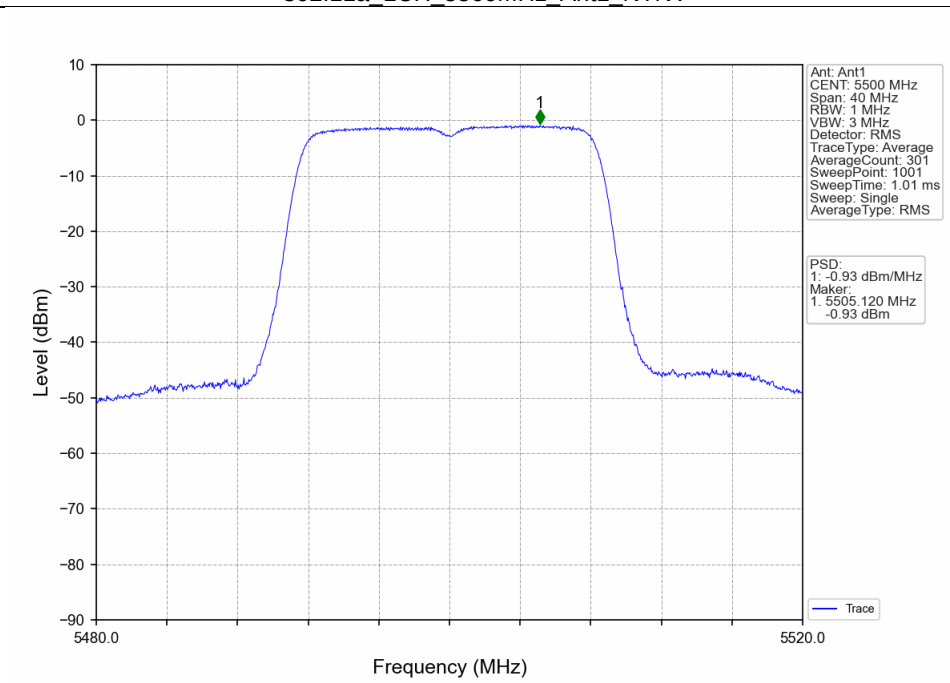
802.11a_LCH_5500MHz_Ant1_NTNV



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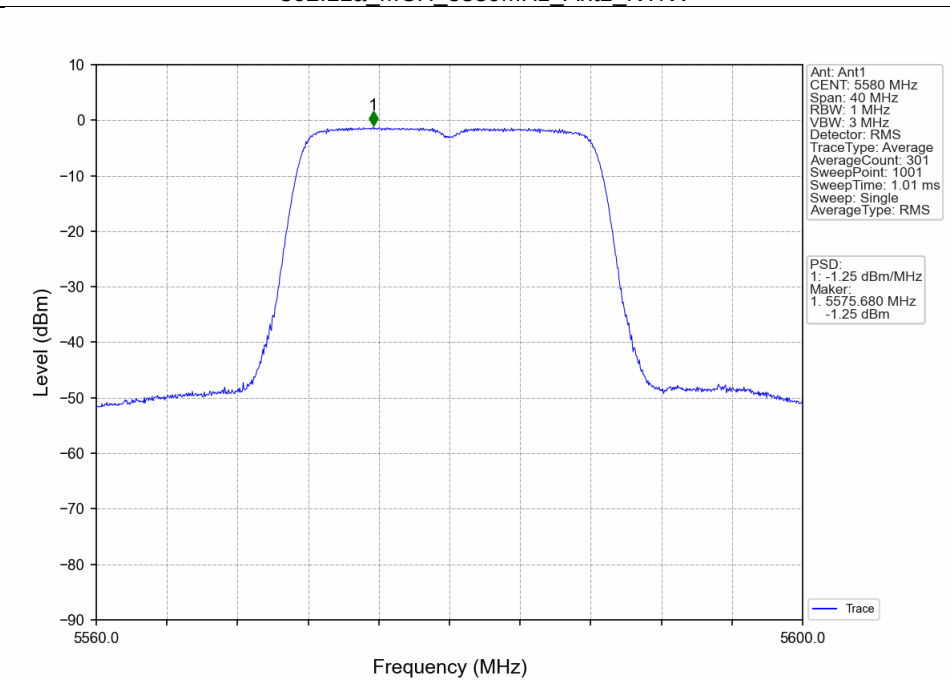

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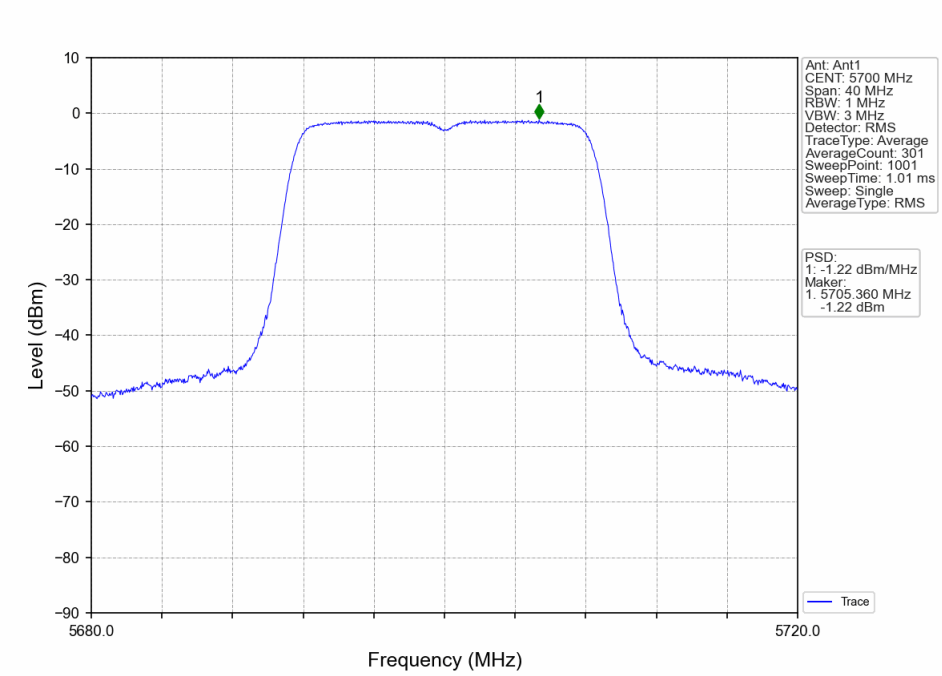
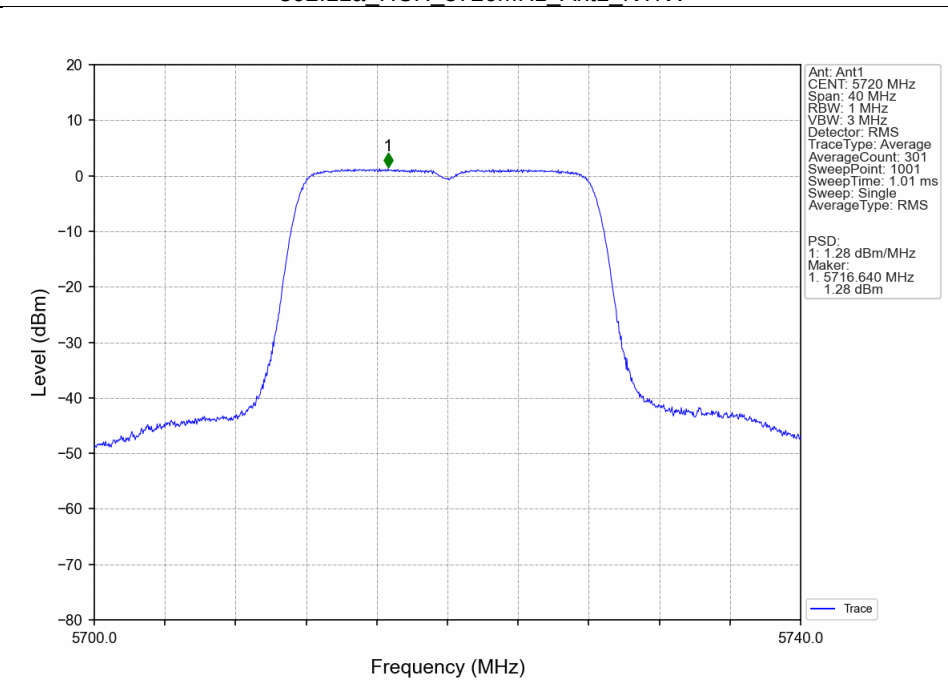
802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_HCH_5720MHz_Ant1_NTNV



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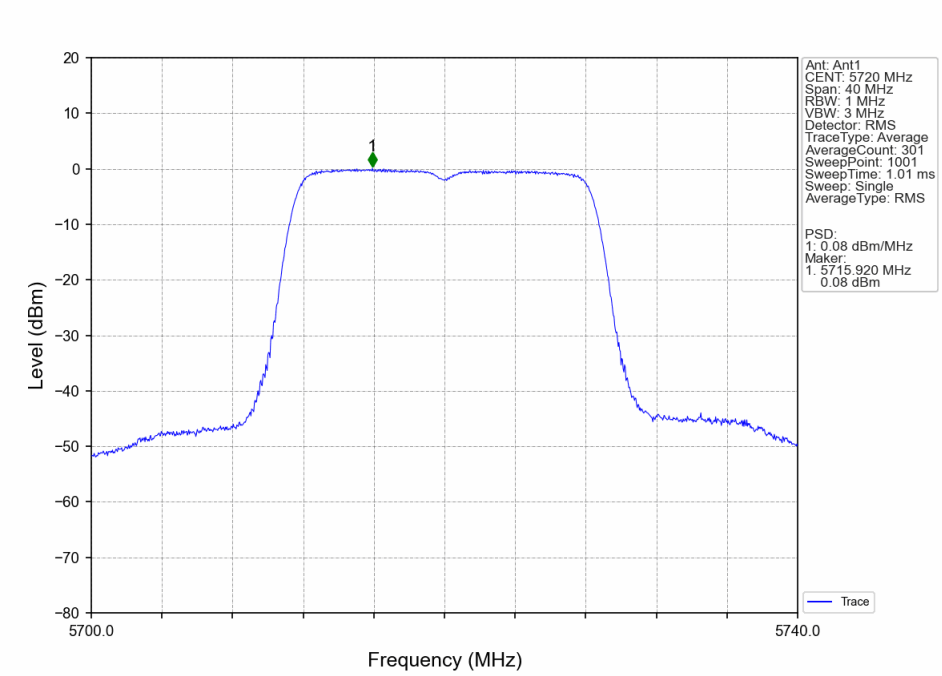
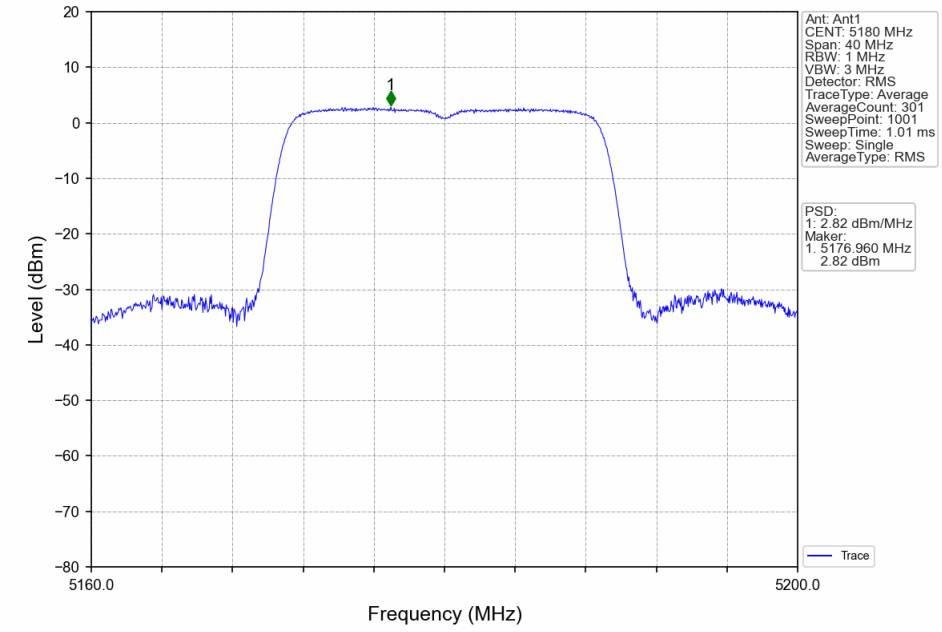
802.11a_HCH_5720MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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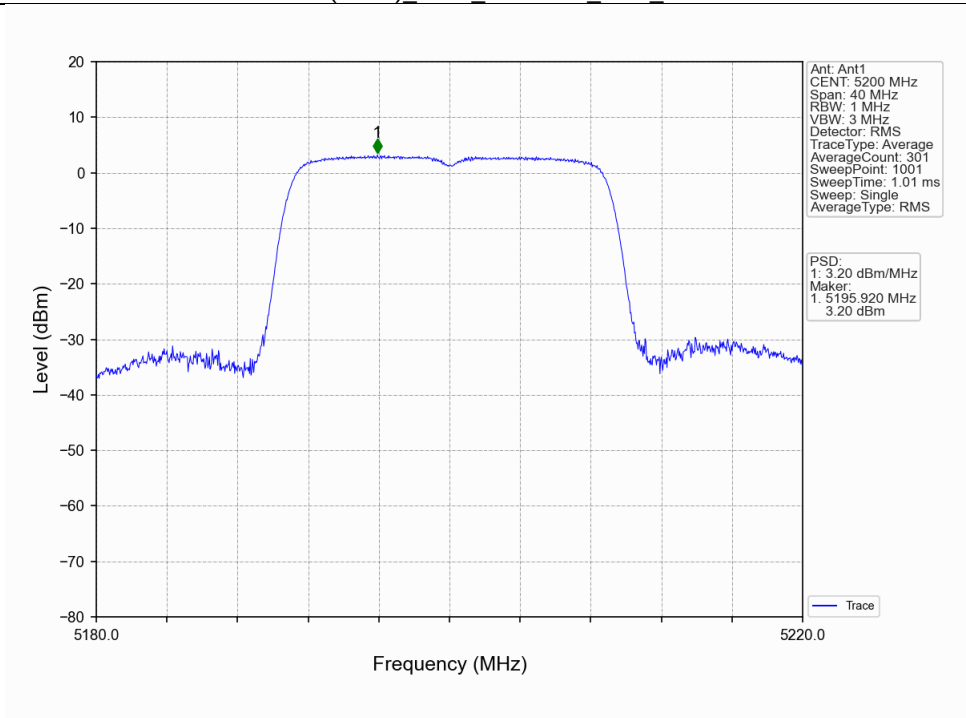
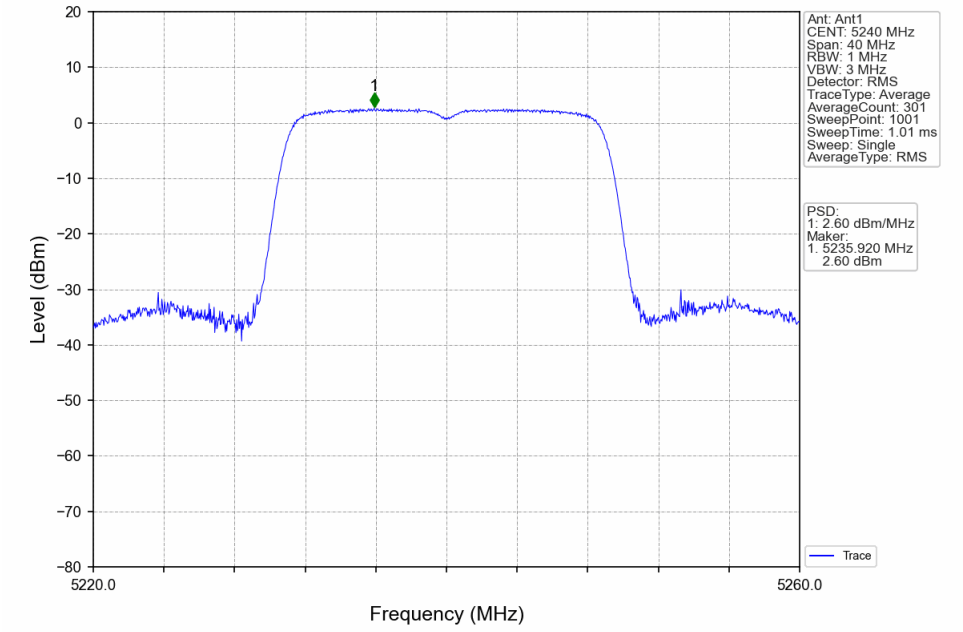
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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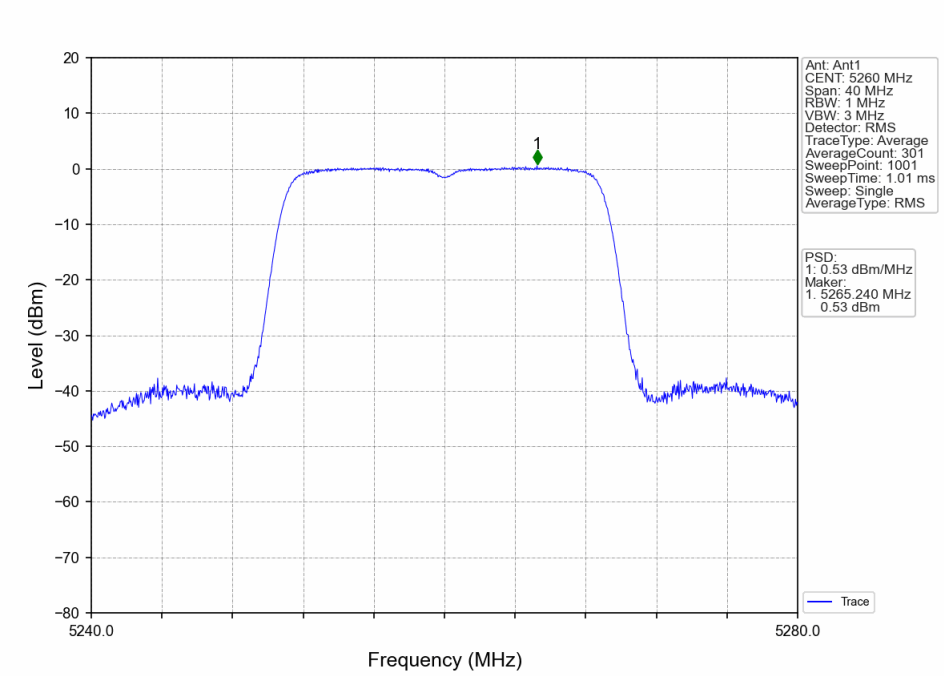
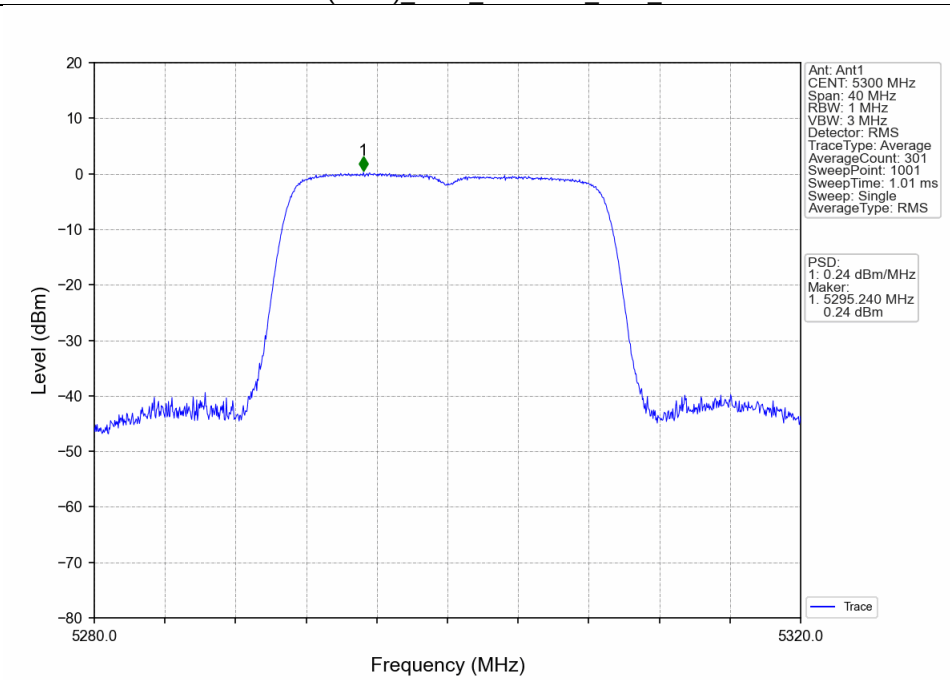
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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