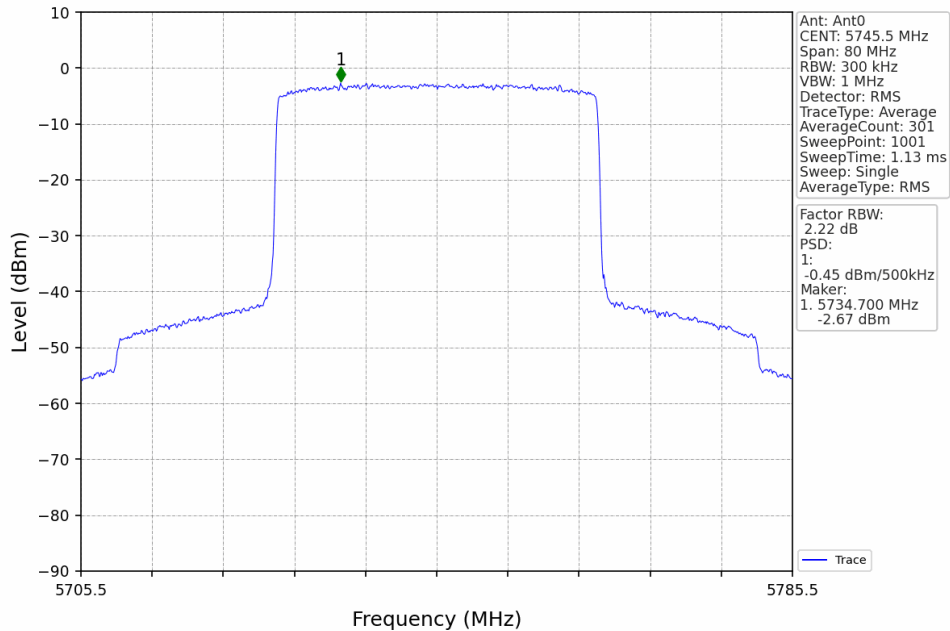
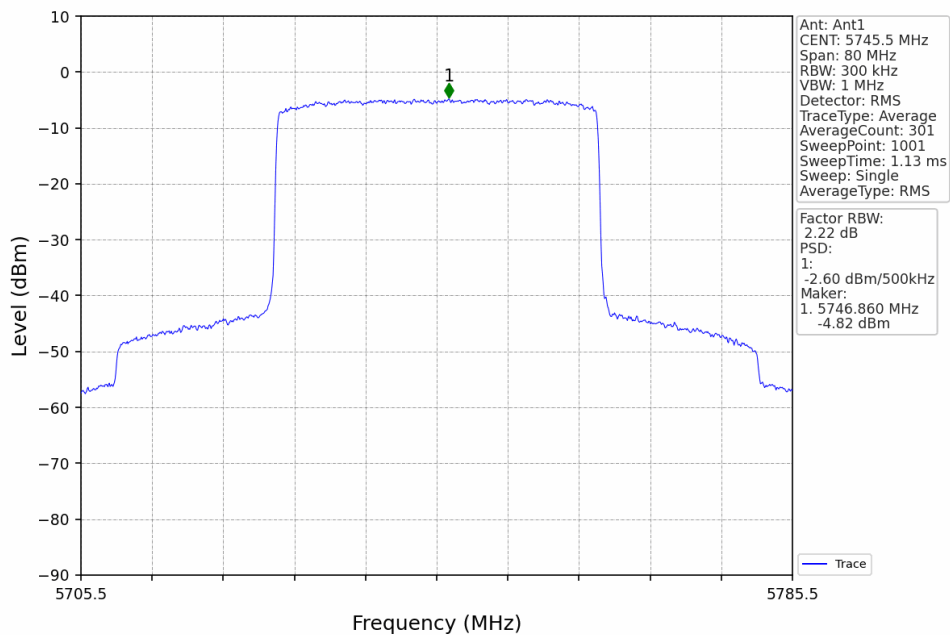


40M_LCH_5745.5MHz_Ant0_NTNV



40M_LCH_5745.5MHz_Ant1_NTNV



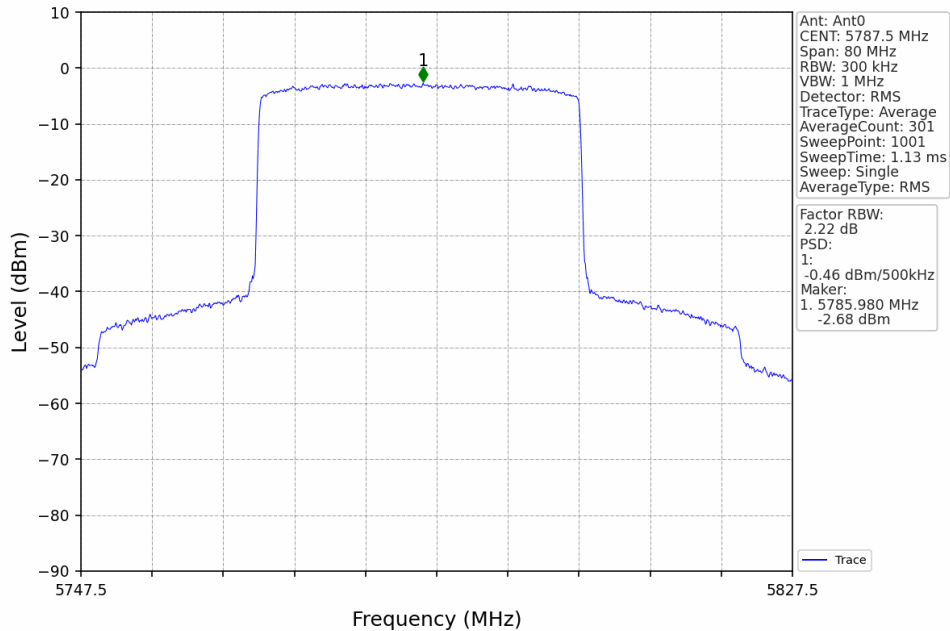
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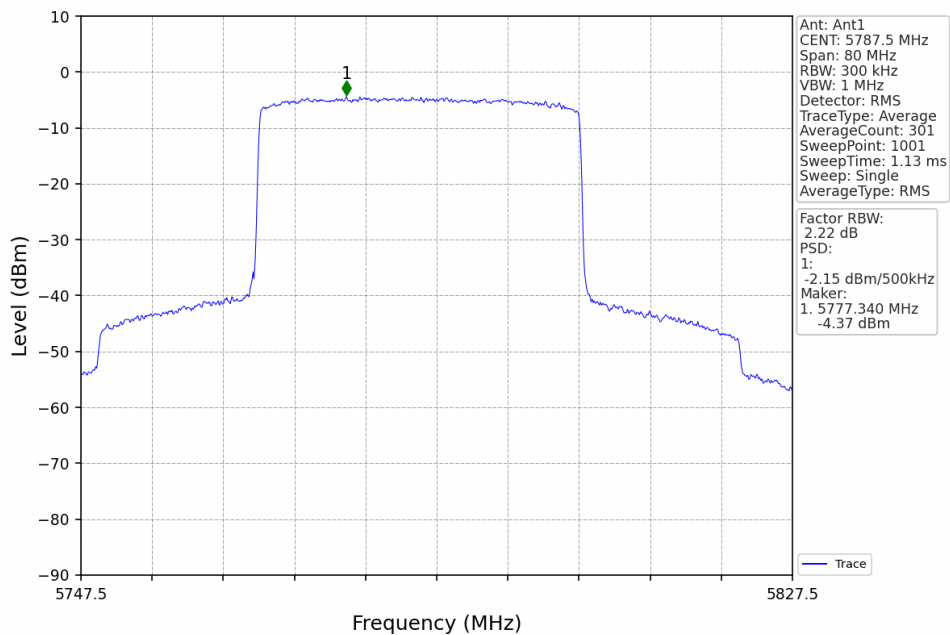
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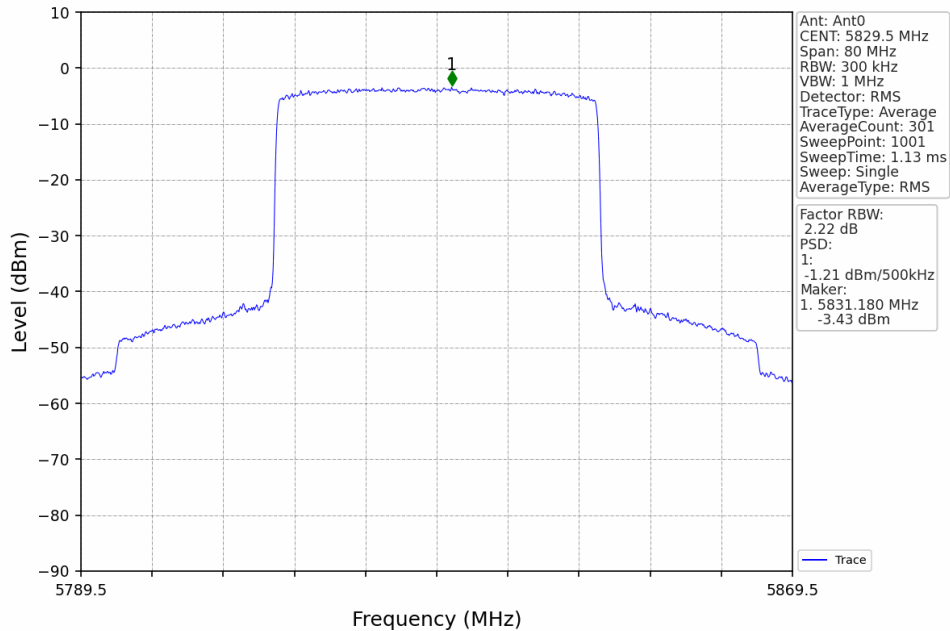
40M_MCH_5787.5MHz_Ant0_NTNV



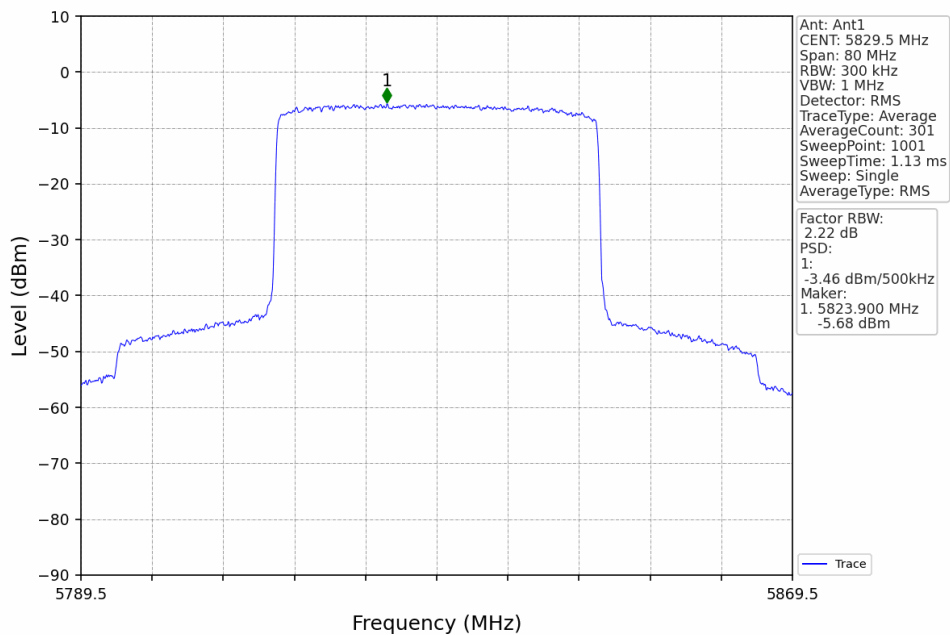
40M_MCH_5787.5MHz_Ant1_NTNV



40M_HCH_5829.5MHz_Ant0_NTNV



40M_HCH_5829.5MHz_Ant1_NTNV



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5. Frequency Stability

5.1 Ant0

5.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
1.4M	SISO	5728.5	20	8.28	5728.494	5725 to 5850	Pass
				7.20	5728.496	5725 to 5850	Pass
				6.12	5728.496	5725 to 5850	Pass
			-10	7.20	5728.493	5725 to 5850	Pass
			-5	7.20	5728.496	5725 to 5850	Pass
			0	7.20	5728.497	5725 to 5850	Pass
			5	7.20	5728.494	5725 to 5850	Pass
			10	7.20	5728.494	5725 to 5850	Pass
			20	7.20	5728.493	5725 to 5850	Pass
			30	7.20	5728.494	5725 to 5850	Pass
			40	7.20	5728.496	5725 to 5850	Pass
		5786.5	20	8.28	5786.562	5725 to 5850	Pass
				7.20	5786.566	5725 to 5850	Pass
				6.12	5786.559	5725 to 5850	Pass
			-10	7.20	5786.556	5725 to 5850	Pass
			-5	7.20	5786.562	5725 to 5850	Pass
			0	7.20	5786.560	5725 to 5850	Pass
			5	7.20	5786.557	5725 to 5850	Pass
			10	7.20	5786.560	5725 to 5850	Pass
			20	7.20	5786.555	5725 to 5850	Pass
			30	7.20	5786.559	5725 to 5850	Pass
			40	7.20	5786.557	5725 to 5850	Pass
		5848.12	20	8.28	5848.173	5725 to 5850	Pass
				7.20	5848.172	5725 to 5850	Pass
				6.12	5848.170	5725 to 5850	Pass
			-10	7.20	5848.177	5725 to 5850	Pass
			-5	7.20	5848.173	5725 to 5850	Pass
			0	7.20	5848.177	5725 to 5850	Pass
			5	7.20	5848.179	5725 to 5850	Pass
			10	7.20	5848.176	5725 to 5850	Pass



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			20	7.20	5848.176	5725 to 5850	Pass
			30	7.20	5848.177	5725 to 5850	Pass
			40	7.20	5848.175	5725 to 5850	Pass
3M	SISO	5727.5	20	8.28	5727.539	5725 to 5850	Pass
				7.20	5727.500	5725 to 5850	Pass
				6.12	5727.521	5725 to 5850	Pass
			-10	7.20	5727.515	5725 to 5850	Pass
				7.20	5727.515	5725 to 5850	Pass
				7.20	5727.512	5725 to 5850	Pass
			5	7.20	5727.536	5725 to 5850	Pass
				7.20	5727.539	5725 to 5850	Pass
				7.20	5727.515	5725 to 5850	Pass
			30	7.20	5727.527	5725 to 5850	Pass
				7.20	5727.521	5725 to 5850	Pass
				7.20	5727.521	5725 to 5850	Pass
		5784.5	20	8.28	5784.500	5725 to 5850	Pass
				7.20	5784.491	5725 to 5850	Pass
				6.12	5784.518	5725 to 5850	Pass
			-10	7.20	5784.503	5725 to 5850	Pass
				7.20	5784.500	5725 to 5850	Pass
				7.20	5784.491	5725 to 5850	Pass
			5	7.20	5784.497	5725 to 5850	Pass
				7.20	5784.491	5725 to 5850	Pass
				7.20	5784.491	5725 to 5850	Pass
			20	7.20	5784.494	5725 to 5850	Pass
				7.20	5784.506	5725 to 5850	Pass
				7.20	5784.509	5725 to 5850	Pass
		5847.2	20	8.28	5847.215	5725 to 5850	Pass
				7.20	5847.212	5725 to 5850	Pass
				6.12	5847.206	5725 to 5850	Pass
			-10	7.20	5847.200	5725 to 5850	Pass
				7.20	5847.212	5725 to 5850	Pass
				7.20	5847.215	5725 to 5850	Pass
			5	7.20	5847.215	5725 to 5850	Pass
				7.20	5847.215	5725 to 5850	Pass
				7.20	5847.203	5725 to 5850	Pass
			20	7.20	5847.215	5725 to 5850	Pass
				7.20	5847.218	5725 to 5850	Pass
				7.20	5847.212	5725 to 5850	Pass
10M	SISO	5730.5	20	8.28	5730.570	5725 to 5850	Pass
				7.20	5730.520	5725 to 5850	Pass
				6.12	5730.510	5725 to 5850	Pass
			-10	7.20	5730.530	5725 to 5850	Pass



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			-5	7.20	5730.520	5725 to 5850	Pass
			0	7.20	5730.510	5725 to 5850	Pass
			5	7.20	5730.490	5725 to 5850	Pass
			10	7.20	5730.540	5725 to 5850	Pass
			20	7.20	5730.520	5725 to 5850	Pass
			30	7.20	5730.500	5725 to 5850	Pass
			40	7.20	5730.500	5725 to 5850	Pass
		5787.5	20	8.28	5787.540	5725 to 5850	Pass
				7.20	5787.510	5725 to 5850	Pass
				6.12	5787.520	5725 to 5850	Pass
			-10	7.20	5787.540	5725 to 5850	Pass
			-5	7.20	5787.520	5725 to 5850	Pass
			0	7.20	5787.540	5725 to 5850	Pass
			5	7.20	5787.520	5725 to 5850	Pass
			10	7.20	5787.510	5725 to 5850	Pass
			20	7.20	5787.560	5725 to 5850	Pass
			30	7.20	5787.540	5725 to 5850	Pass
			40	7.20	5787.530	5725 to 5850	Pass
		5844.5	20	8.28	5844.510	5725 to 5850	Pass
				7.20	5844.540	5725 to 5850	Pass
				6.12	5844.520	5725 to 5850	Pass
			-10	7.20	5844.550	5725 to 5850	Pass
			-5	7.20	5844.500	5725 to 5850	Pass
			0	7.20	5844.500	5725 to 5850	Pass
			5	7.20	5844.510	5725 to 5850	Pass
			10	7.20	5844.470	5725 to 5850	Pass
			20	7.20	5844.540	5725 to 5850	Pass
			30	7.20	5844.470	5725 to 5850	Pass
			40	7.20	5844.510	5725 to 5850	Pass
20M	SISO	5735.5	20	8.28	5735.680	5725 to 5850	Pass
				7.20	5735.480	5725 to 5850	Pass
				6.12	5735.540	5725 to 5850	Pass
			-10	7.20	5735.520	5725 to 5850	Pass
			-5	7.20	5735.480	5725 to 5850	Pass
			0	7.20	5735.520	5725 to 5850	Pass
			5	7.20	5735.500	5725 to 5850	Pass
			10	7.20	5735.540	5725 to 5850	Pass
			20	7.20	5735.520	5725 to 5850	Pass
			30	7.20	5735.520	5725 to 5850	Pass
			40	7.20	5735.560	5725 to 5850	Pass



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		5787.5	20	8.28	5787.520	5725 to 5850	Pass
				7.20	5787.580	5725 to 5850	Pass
				6.12	5787.520	5725 to 5850	Pass
			-10	7.20	5787.640	5725 to 5850	Pass
			-5	7.20	5787.400	5725 to 5850	Pass
			0	7.20	5787.540	5725 to 5850	Pass
			5	7.20	5787.520	5725 to 5850	Pass
			10	7.20	5787.560	5725 to 5850	Pass
			20	7.20	5787.500	5725 to 5850	Pass
			30	7.20	5787.680	5725 to 5850	Pass
			40	7.20	5787.540	5725 to 5850	Pass
		5839.5	20	8.28	5839.580	5725 to 5850	Pass
				7.20	5839.600	5725 to 5850	Pass
				6.12	5839.580	5725 to 5850	Pass
			-10	7.20	5839.540	5725 to 5850	Pass
			-5	7.20	5839.480	5725 to 5850	Pass
			0	7.20	5839.600	5725 to 5850	Pass
			5	7.20	5839.500	5725 to 5850	Pass
			10	7.20	5839.540	5725 to 5850	Pass
			20	7.20	5839.560	5725 to 5850	Pass
			30	7.20	5839.500	5725 to 5850	Pass
			40	7.20	5839.580	5725 to 5850	Pass
40M	SISO	5745.5	20	8.28	5745.500	5725 to 5850	Pass
				7.20	5745.740	5725 to 5850	Pass
				6.12	5745.660	5725 to 5850	Pass
			-10	7.20	5745.540	5725 to 5850	Pass
			-5	7.20	5745.460	5725 to 5850	Pass
			0	7.20	5745.700	5725 to 5850	Pass
			5	7.20	5745.700	5725 to 5850	Pass
			10	7.20	5745.660	5725 to 5850	Pass
			20	7.20	5745.780	5725 to 5850	Pass
			30	7.20	5745.580	5725 to 5850	Pass
			40	7.20	5745.620	5725 to 5850	Pass
		5787.5	20	8.28	5785.420	5725 to 5850	Pass
				7.20	5785.340	5725 to 5850	Pass
				6.12	5785.660	5725 to 5850	Pass
			-10	7.20	5785.780	5725 to 5850	Pass
			-5	7.20	5785.660	5725 to 5850	Pass
			0	7.20	5785.740	5725 to 5850	Pass
			5	7.20	5785.420	5725 to 5850	Pass



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			10	7.20	5785.460	5725 to 5850	Pass
			20	7.20	5785.660	5725 to 5850	Pass
			30	7.20	5785.540	5725 to 5850	Pass
			40	7.20	5785.540	5725 to 5850	Pass
		5829.5	20	8.28	5829.700	5725 to 5850	Pass
				7.20	5829.460	5725 to 5850	Pass
				6.12	5829.260	5725 to 5850	Pass
			-10	7.20	5829.620	5725 to 5850	Pass
			-5	7.20	5829.580	5725 to 5850	Pass
			0	7.20	5829.420	5725 to 5850	Pass
			5	7.20	5829.420	5725 to 5850	Pass
			10	7.20	5829.380	5725 to 5850	Pass
			20	7.20	5829.580	5725 to 5850	Pass
			30	7.20	5829.580	5725 to 5850	Pass
			40	7.20	5829.500	5725 to 5850	Pass



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5.8G SDR MIMO Mode

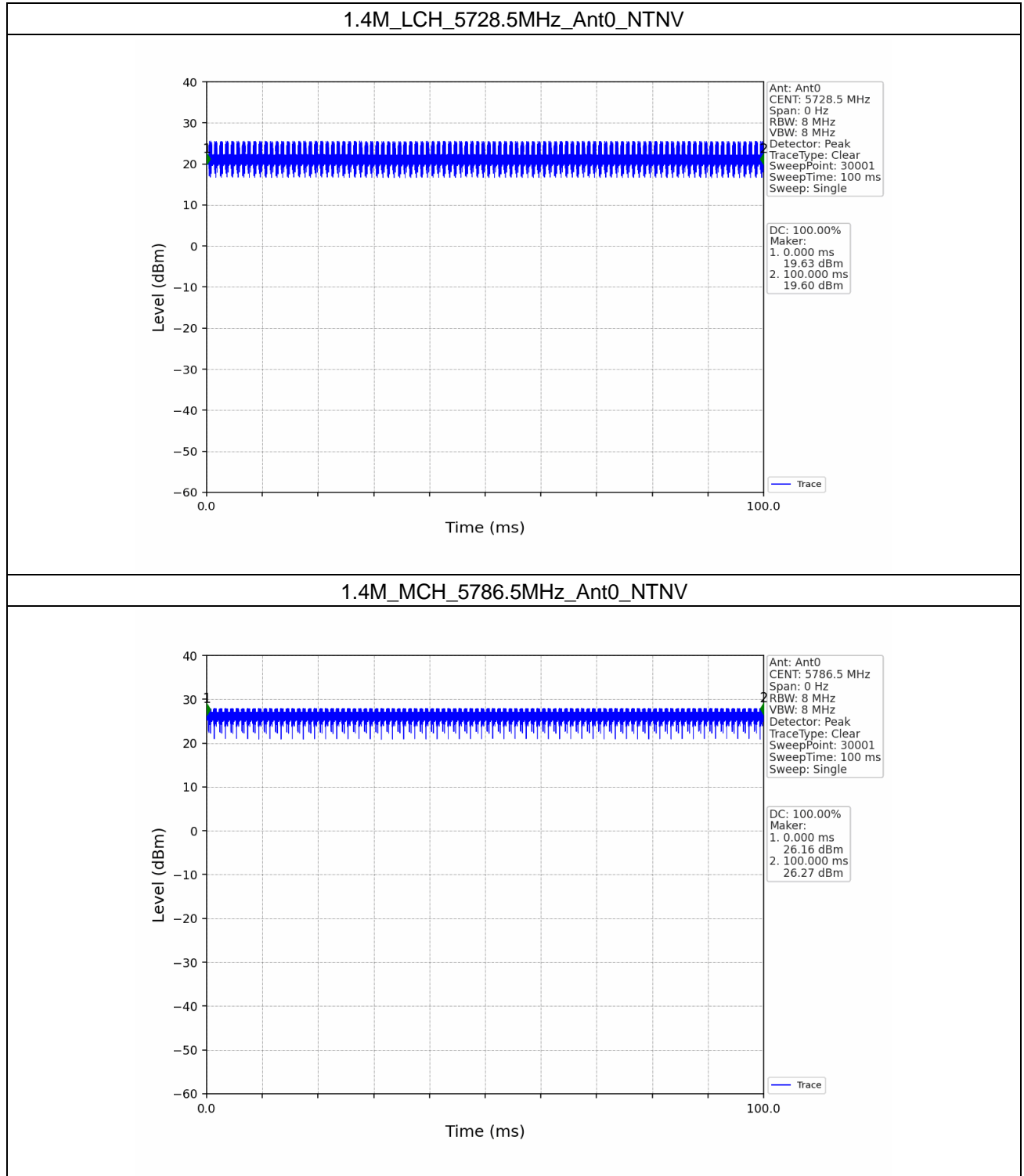
1. Duty Cycle

1.1 Ant0

1.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4M	MIMO	5728.5	100.000	100.000	100.00	0.00	0.00
		5786.5	100.000	100.000	100.00	0.00	0.00
		5848.12	100.000	100.000	100.00	0.00	0.00
3M	MIMO	5727.5	100.000	100.000	100.00	0.00	0.00
		5784.5	100.000	100.000	100.00	0.00	0.00
		5847.2	100.000	100.000	100.00	0.00	0.00
10M	MIMO	5730.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5844.5	100.000	100.000	100.00	0.00	0.00
20M	MIMO	5735.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5839.5	100.000	100.000	100.00	0.00	0.00
40M	MIMO	5745.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5829.5	100.000	100.000	100.00	0.00	0.00

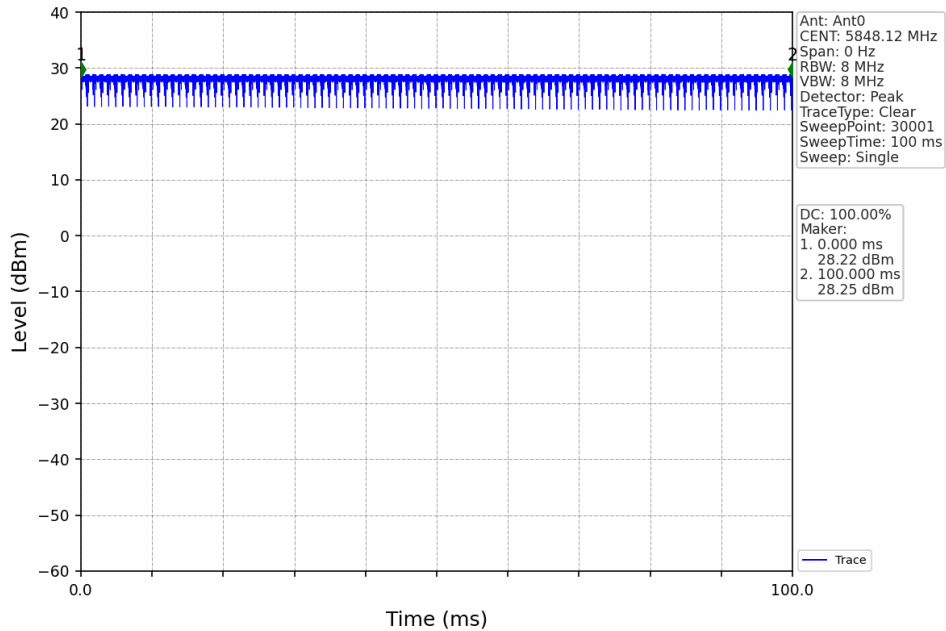
1.1.2 Test Graph



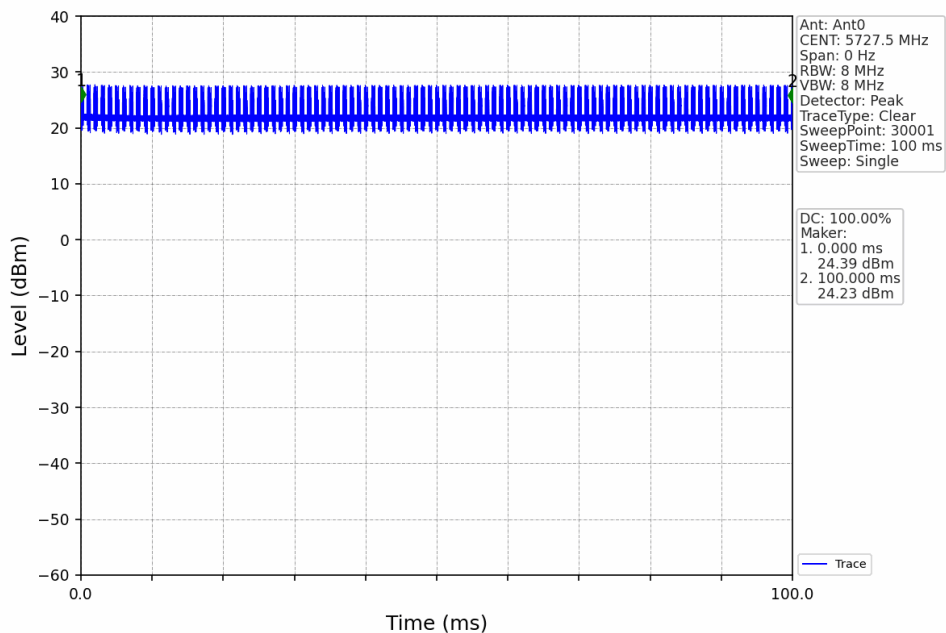
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1.4M_HCH_5848.12MHz_Ant0_NTNV



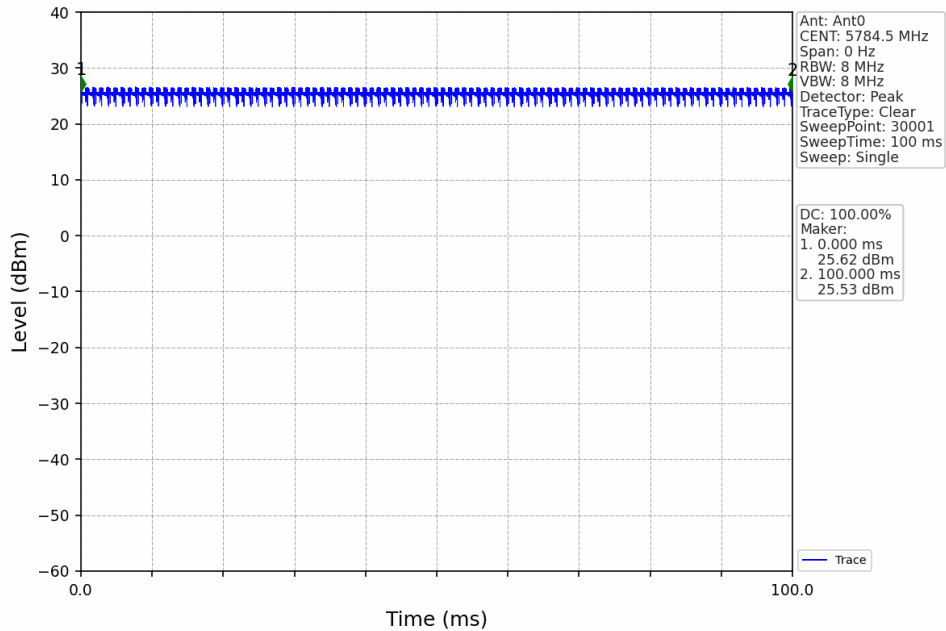
3M_LCH_5727.5MHz_Ant0_NTNV



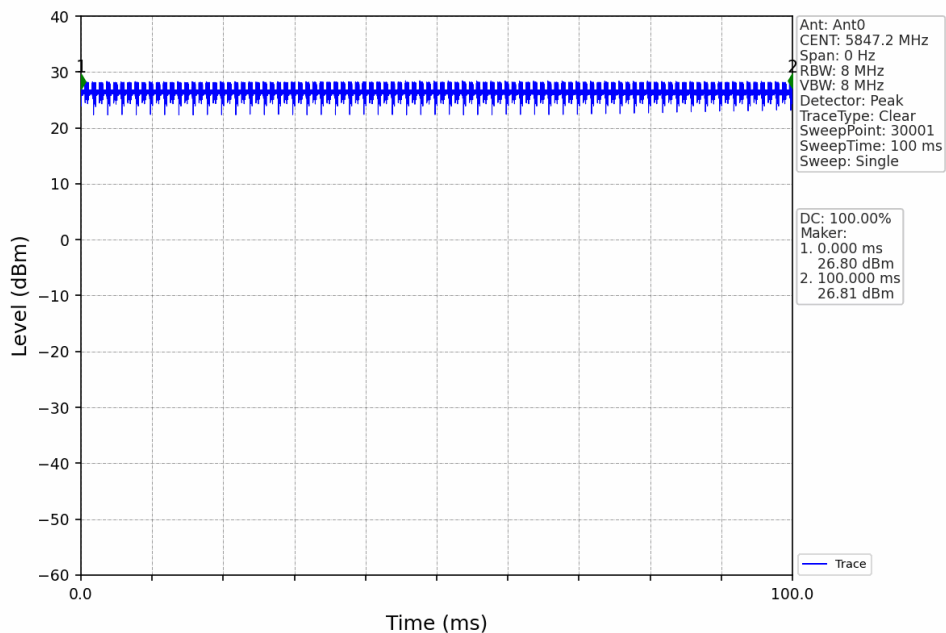
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3M_MCH_5784.5MHz_Ant0_NTNV



3M_HCH_5847.2MHz_Ant0_NTNV



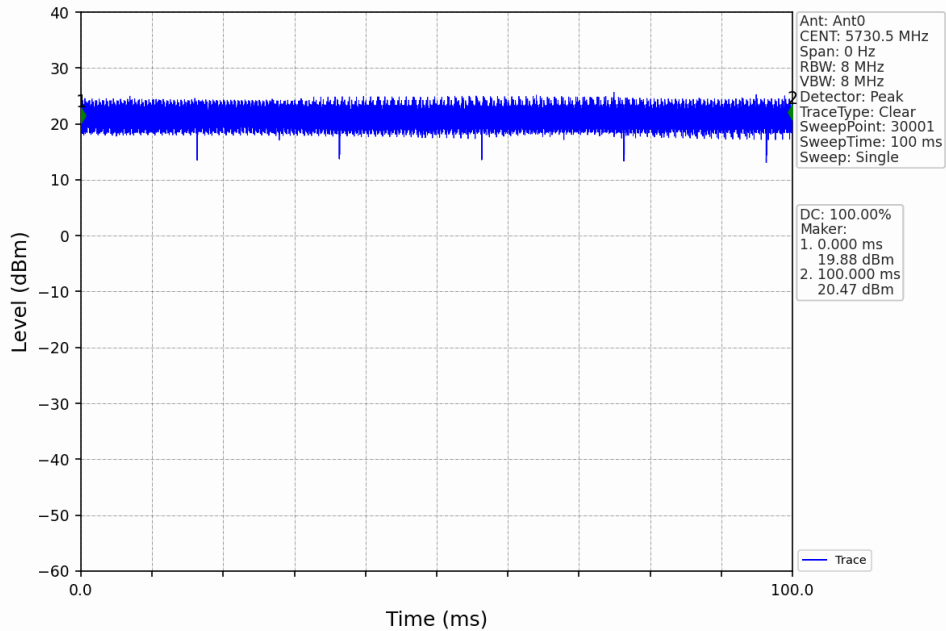
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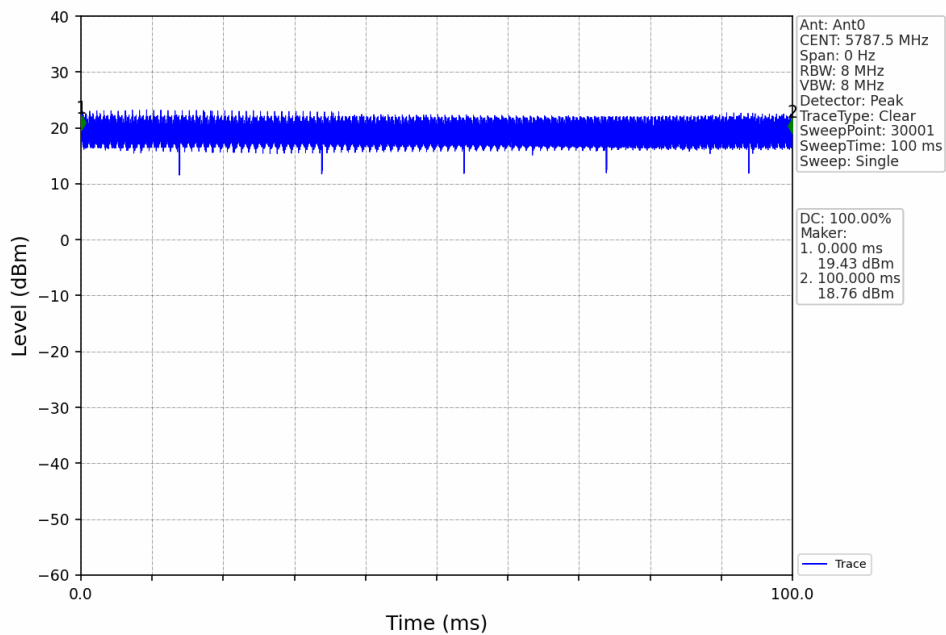
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10M_LCH_5730.5MHz_Ant0_NTNV



10M_MCH_5787.5MHz_Ant0_NTNV



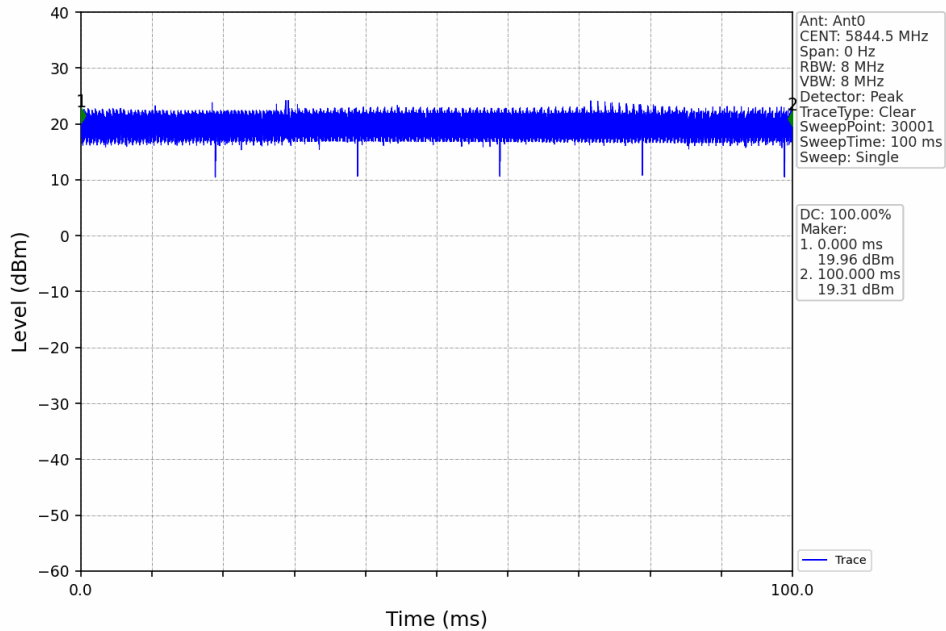
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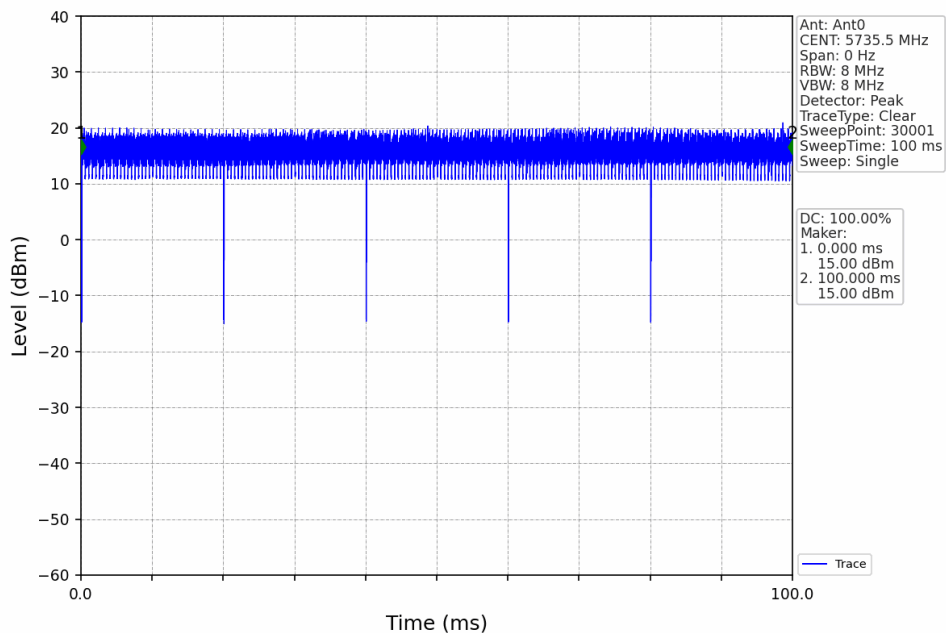
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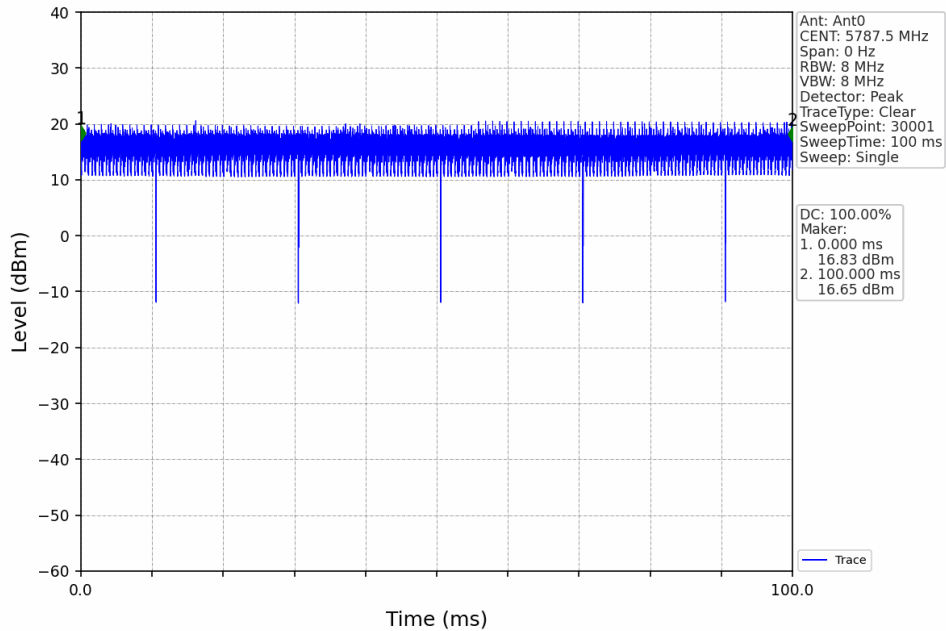
10M_HCH_5844.5MHz_Ant0_NTNV



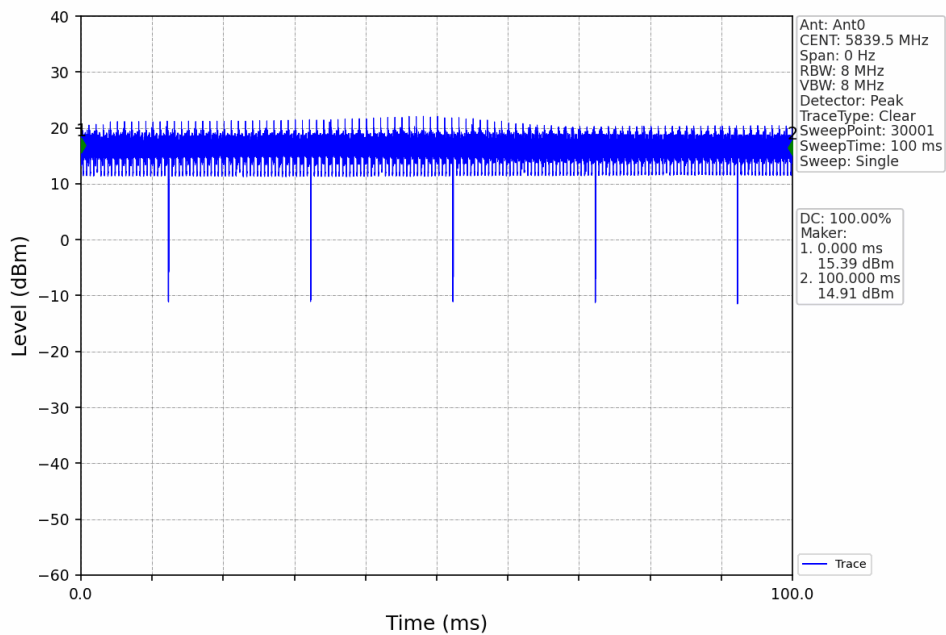
20M_LCH_5735.5MHz_Ant0_NTNV



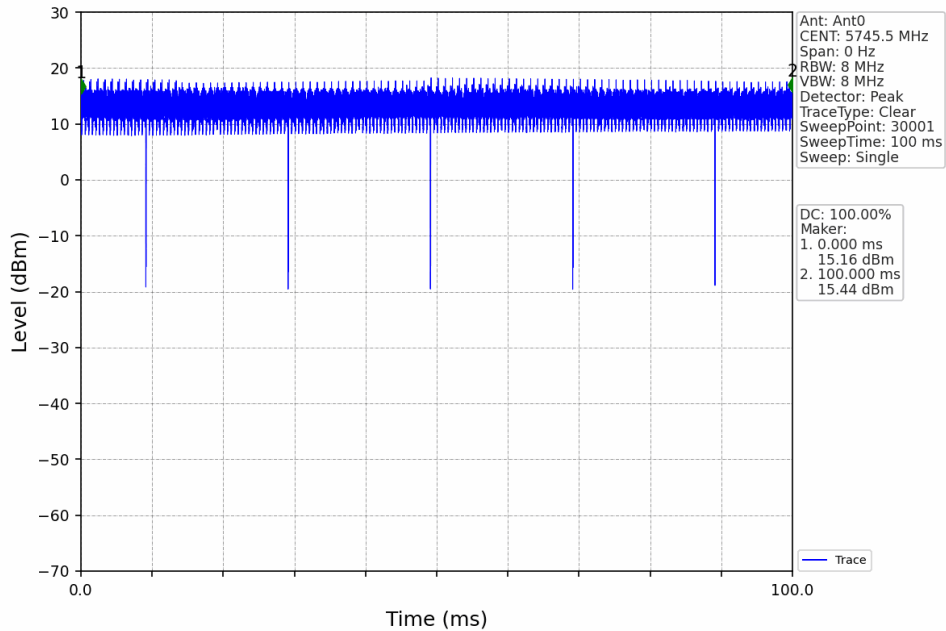
20M_MCH_5787.5MHz_Ant0_NTNV



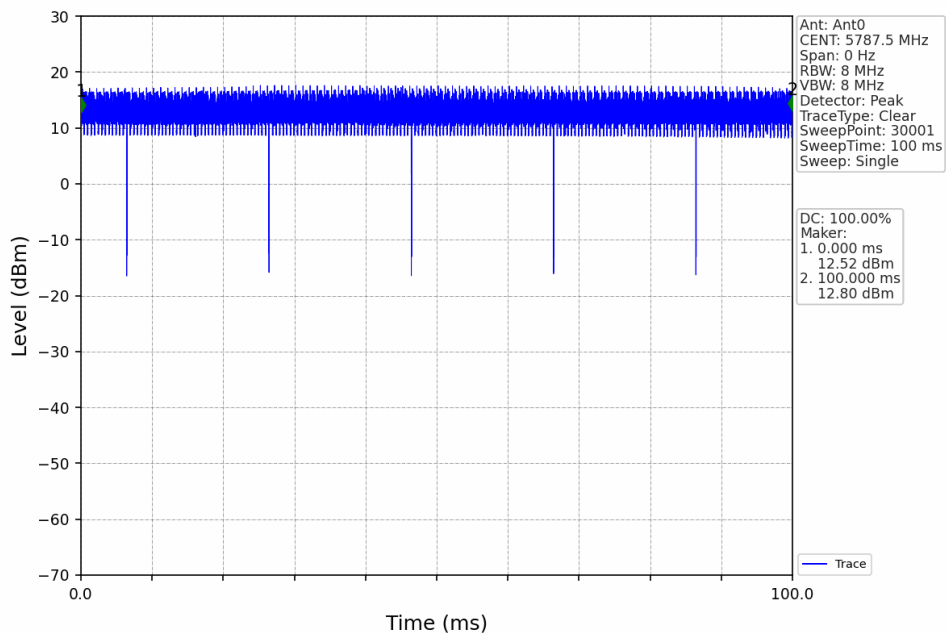
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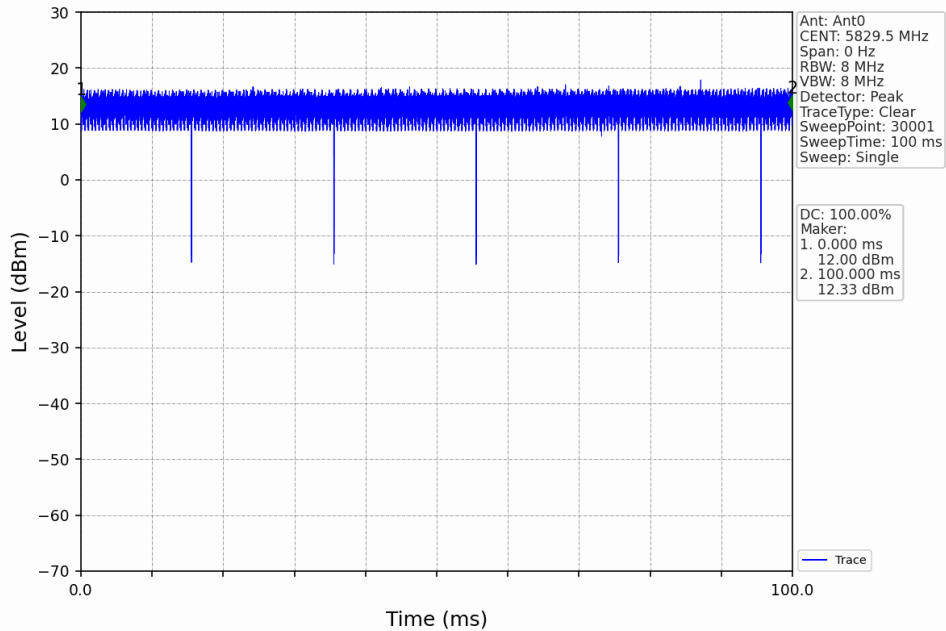
40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV



40M_HCH_5829.5MHz_Ant0_NTNV



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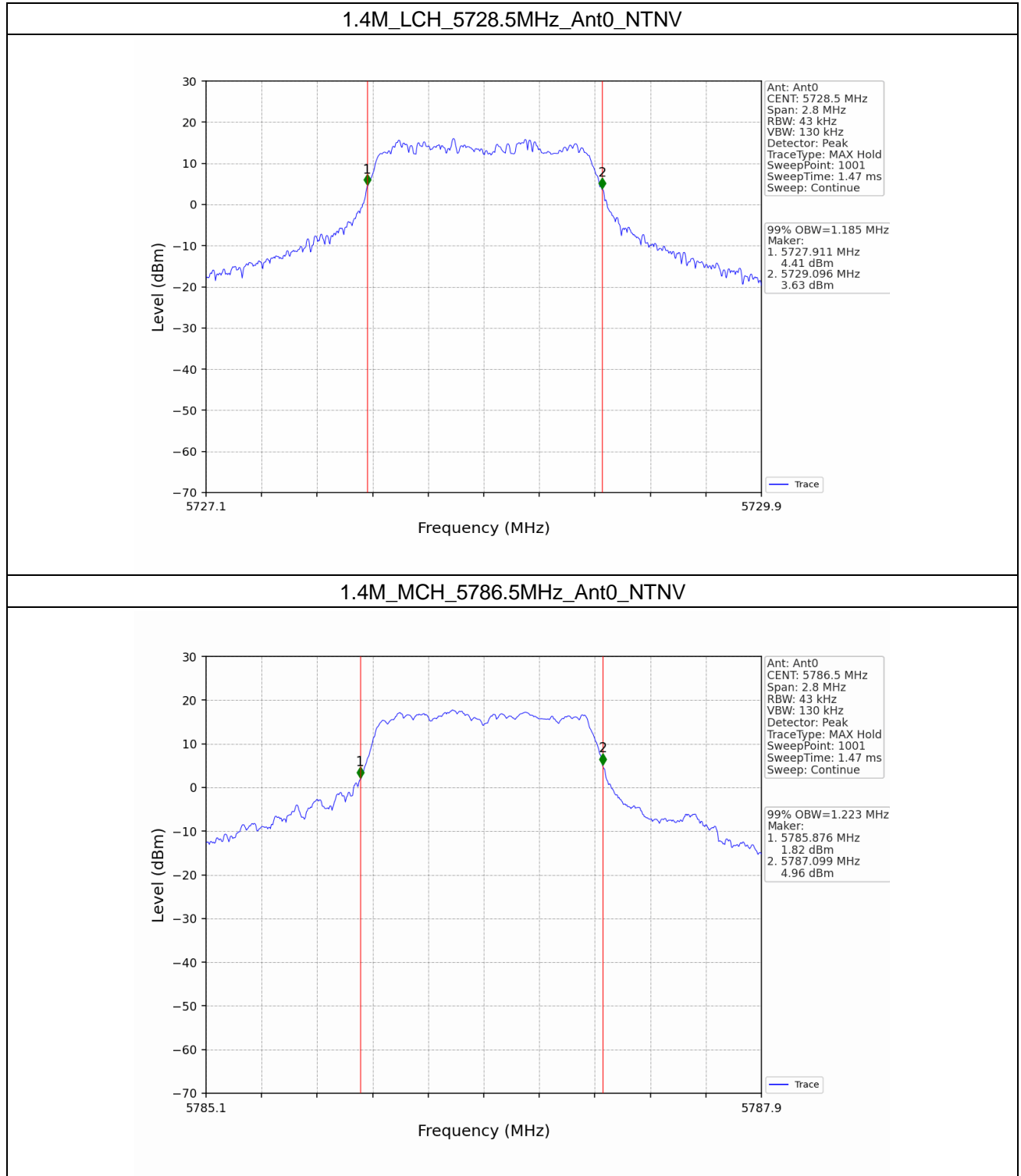
2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1.4M	MIMO	5728.5	0	1.185	Pass
		5786.5	0	1.223	Pass
		5848.12	0	1.443	Pass
3M	MIMO	5727.5	0	2.341	Pass
		5784.5	0	2.791	Pass
		5847.2	0	2.430	Pass
10M	MIMO	5730.5	0	9.095	Pass
		5787.5	0	8.984	Pass
		5844.5	0	9.061	Pass
20M	MIMO	5735.5	0	17.918	Pass
		5787.5	0	17.939	Pass
		5839.5	0	17.968	Pass
40M	MIMO	5745.5	0	36.028	Pass
		5787.5	0	36.002	Pass
		5829.5	0	35.899	Pass

2.1.2 Test Graph



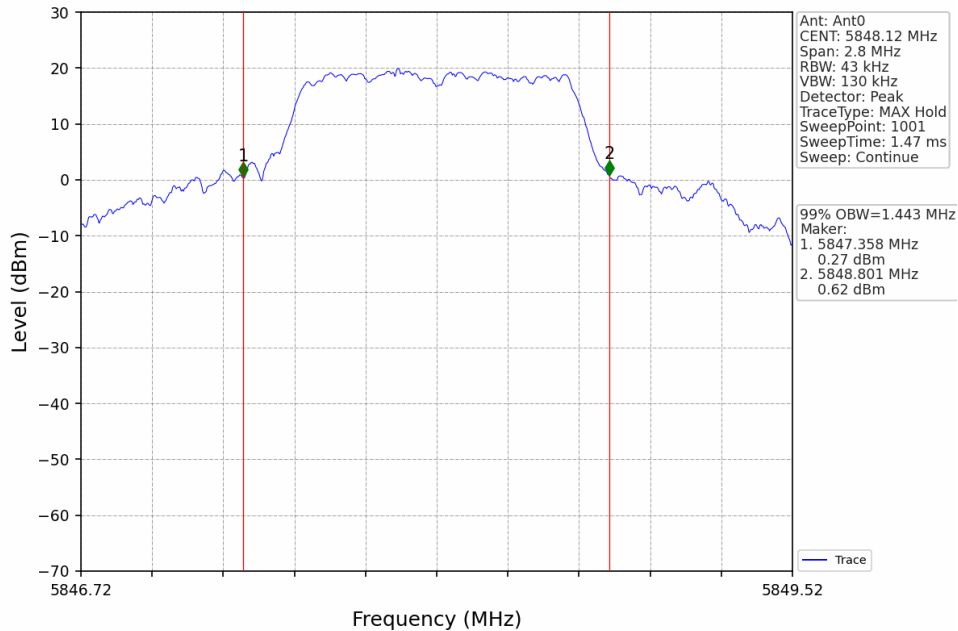
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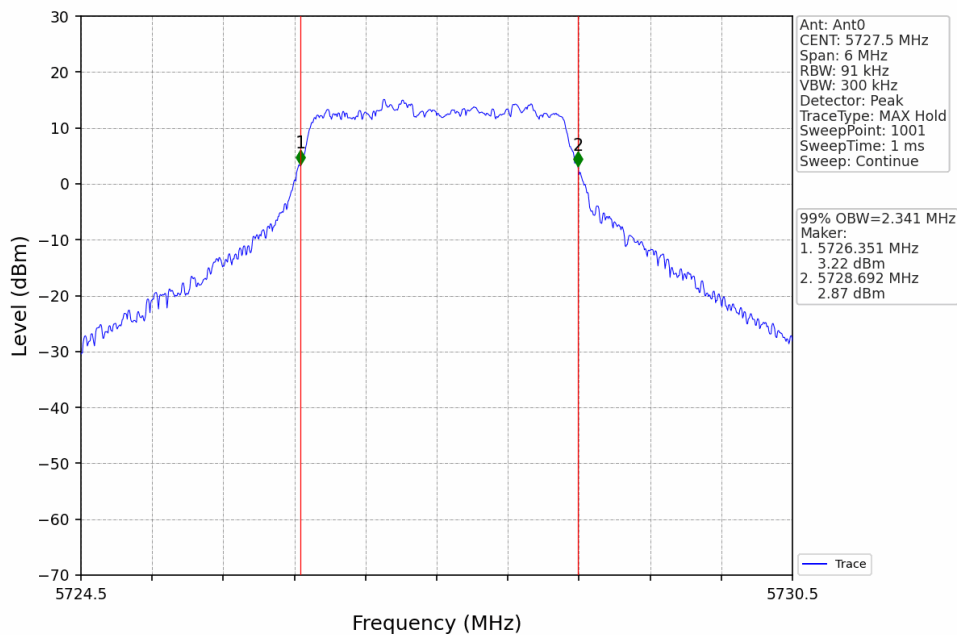
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1.4M_HCH_5848.12MHz_Ant0_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



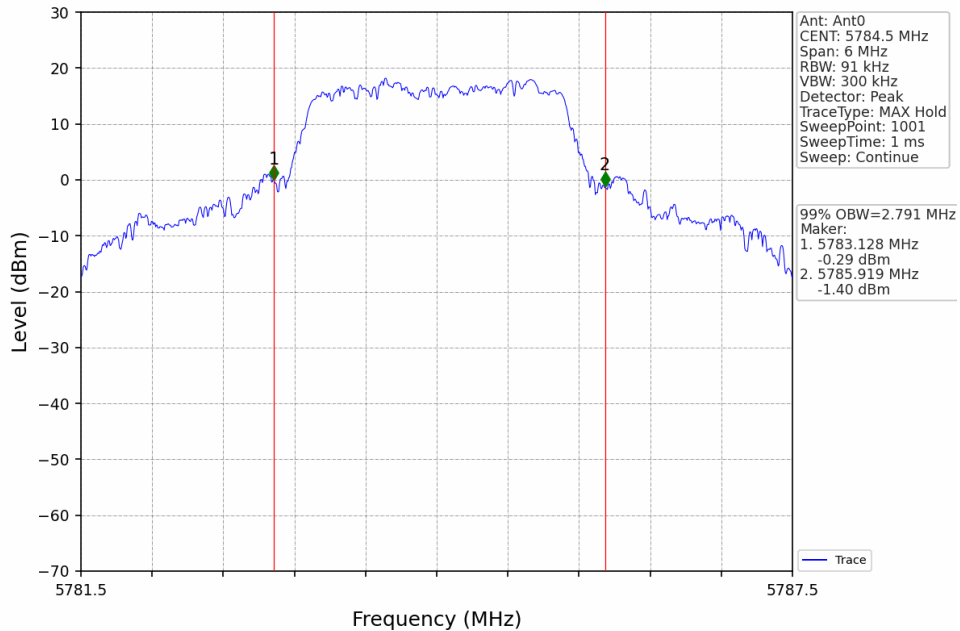
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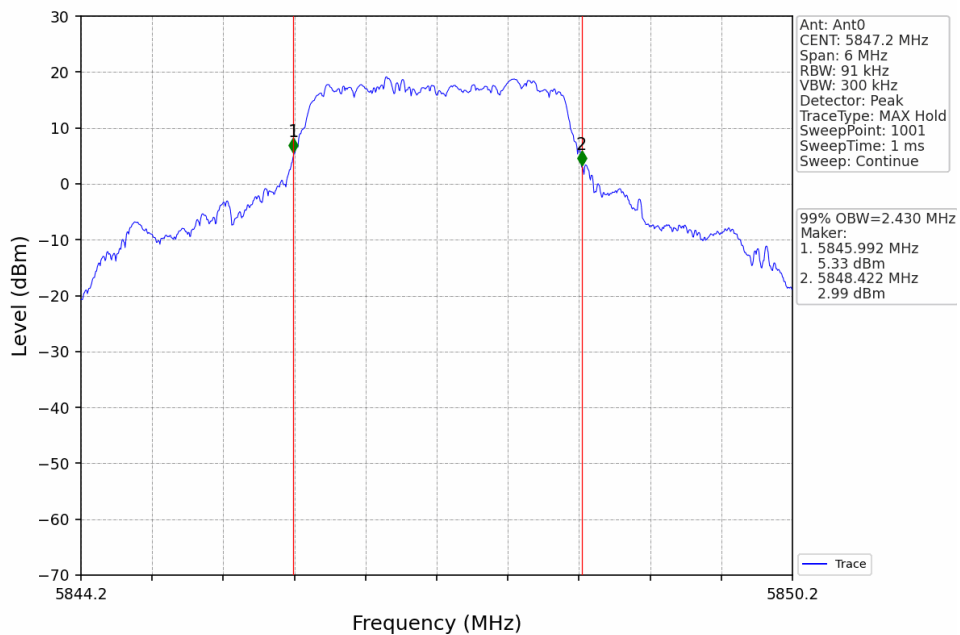
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3M_MCH_5784.5MHz_Ant0_NTNV



3M_HCH_5847.2MHz_Ant0_NTNV



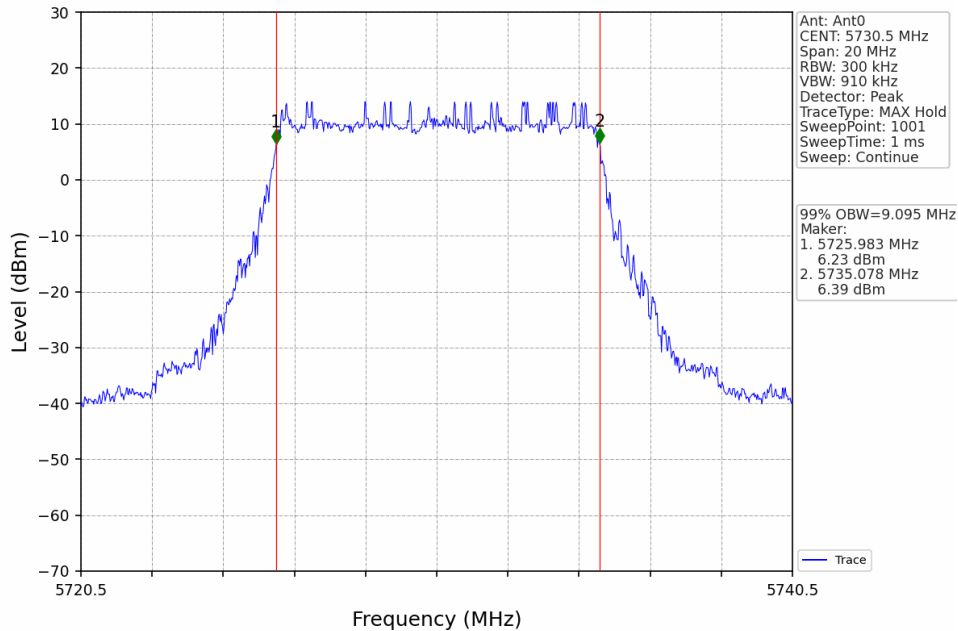
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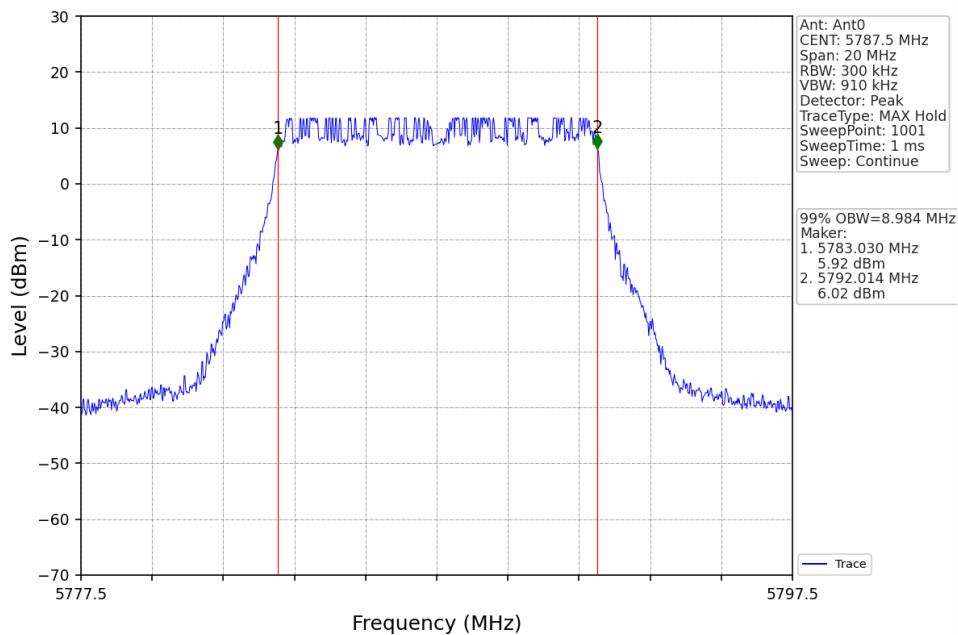
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10M_LCH_5730.5MHz_Ant0_NTNV



10M_MCH_5787.5MHz_Ant0_NTNV



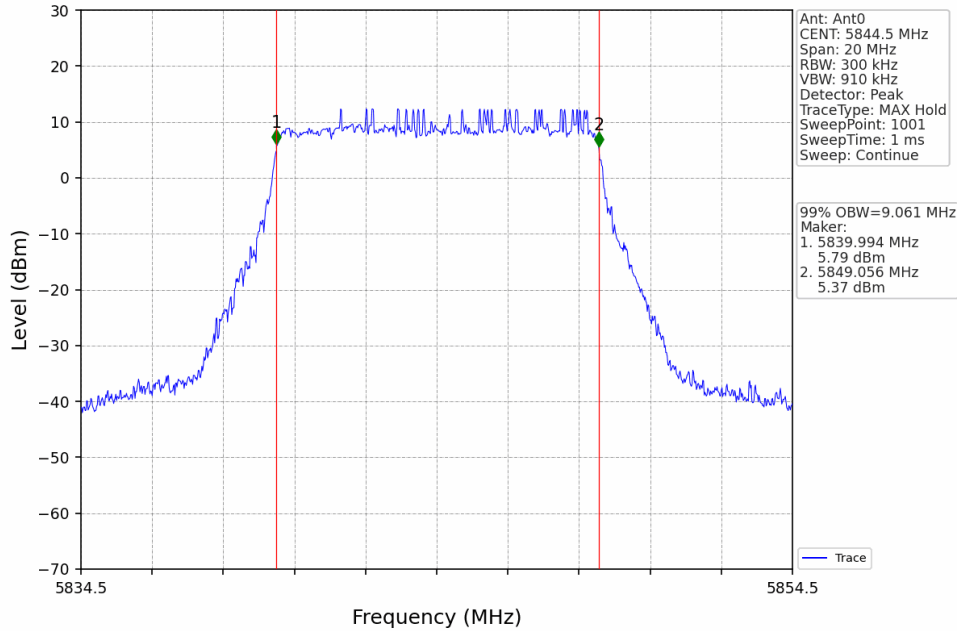
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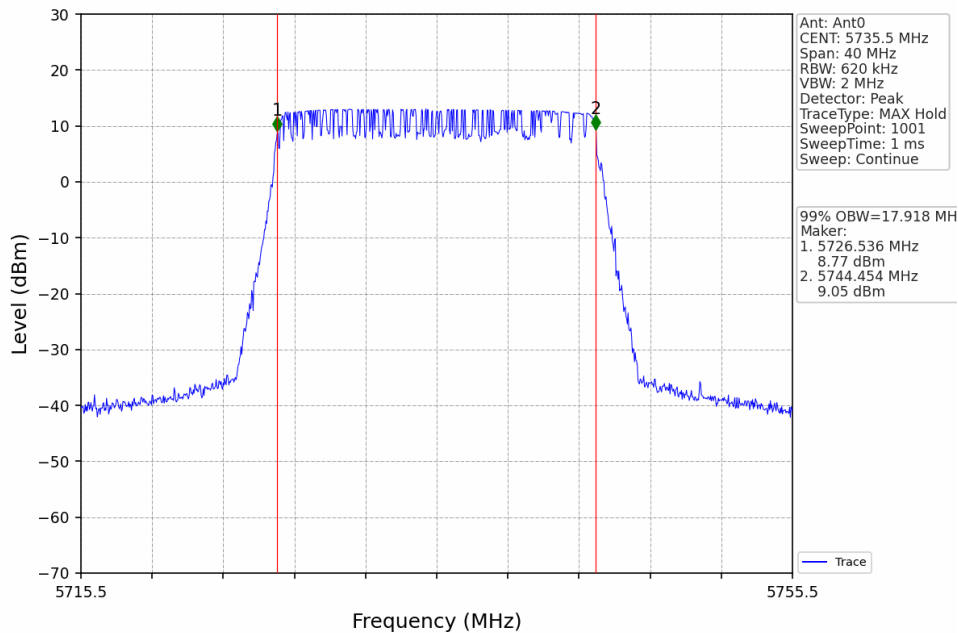
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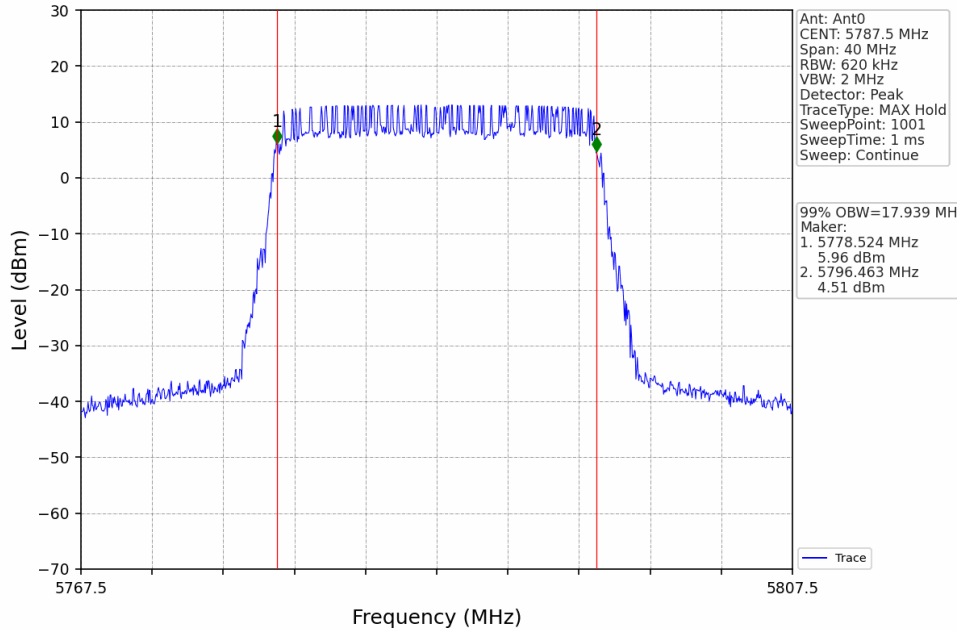
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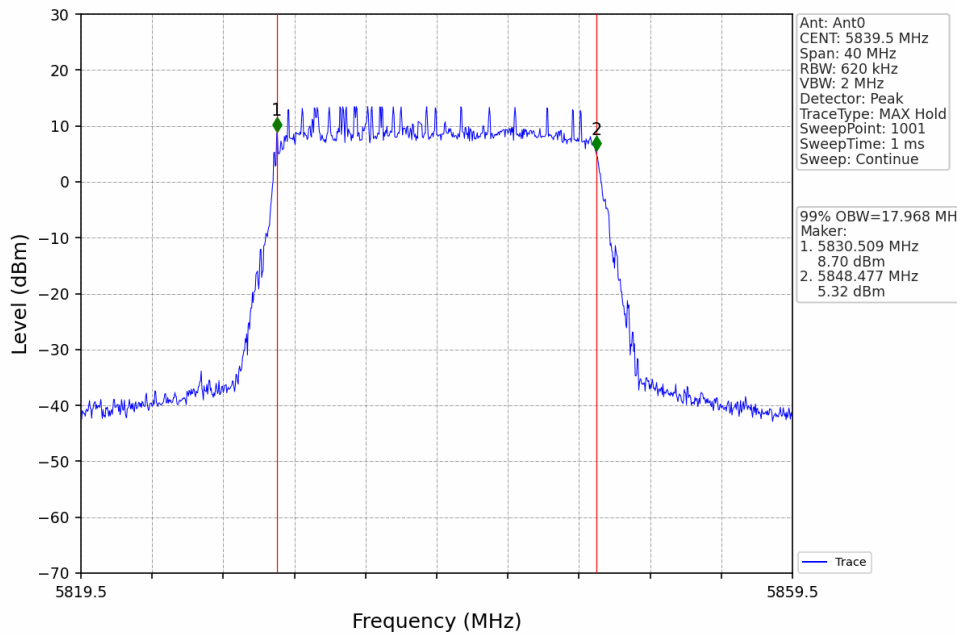
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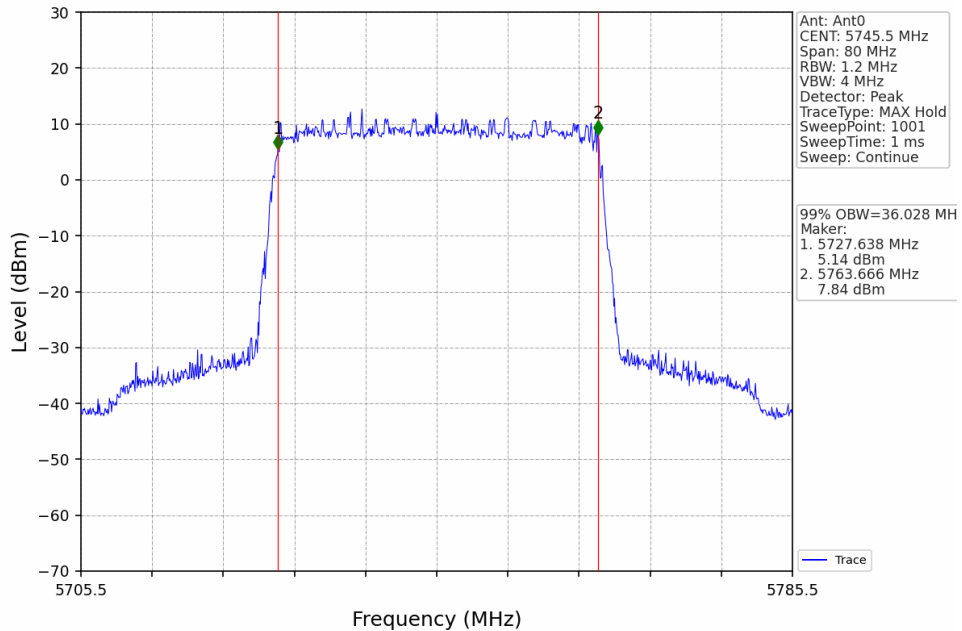
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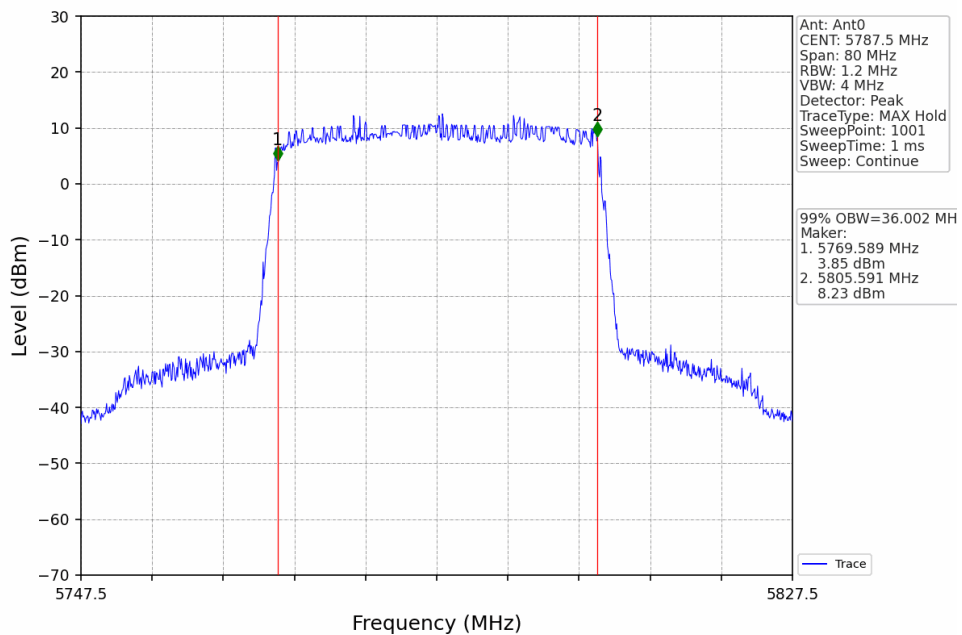
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40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV

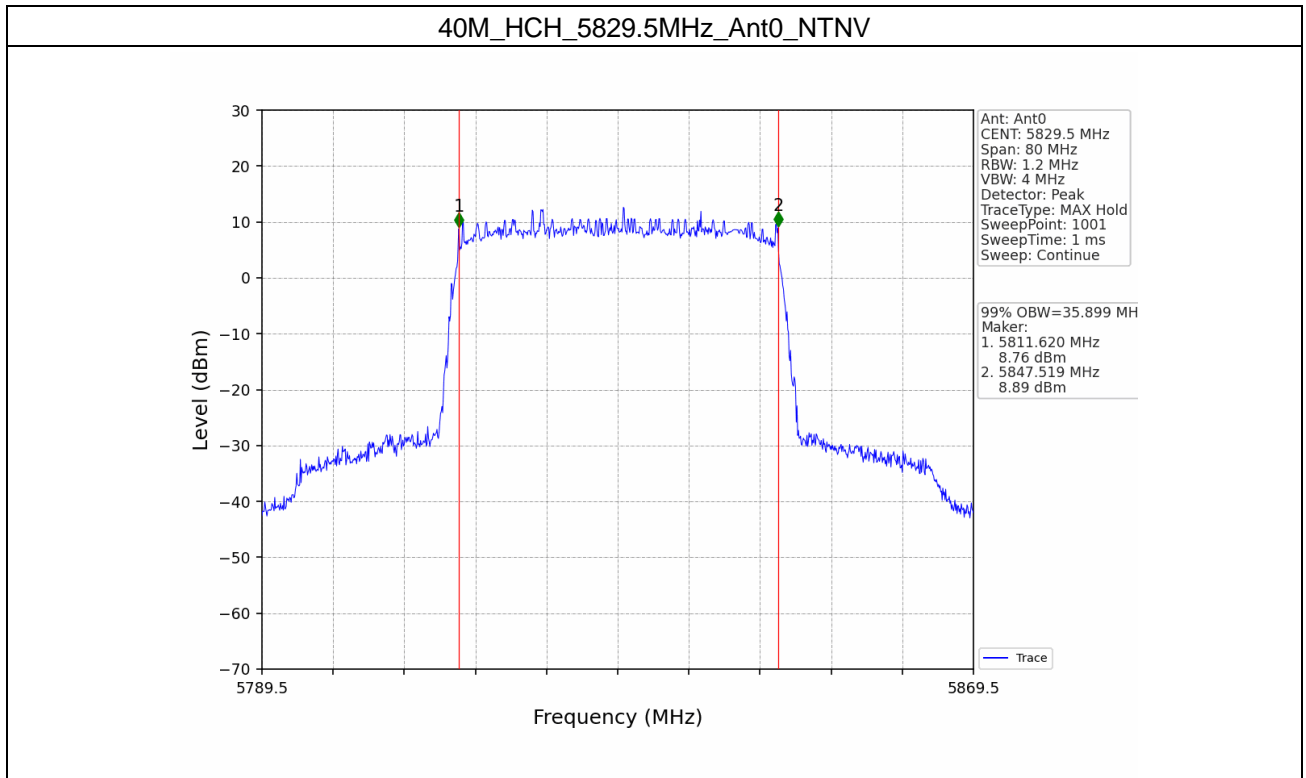


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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320607

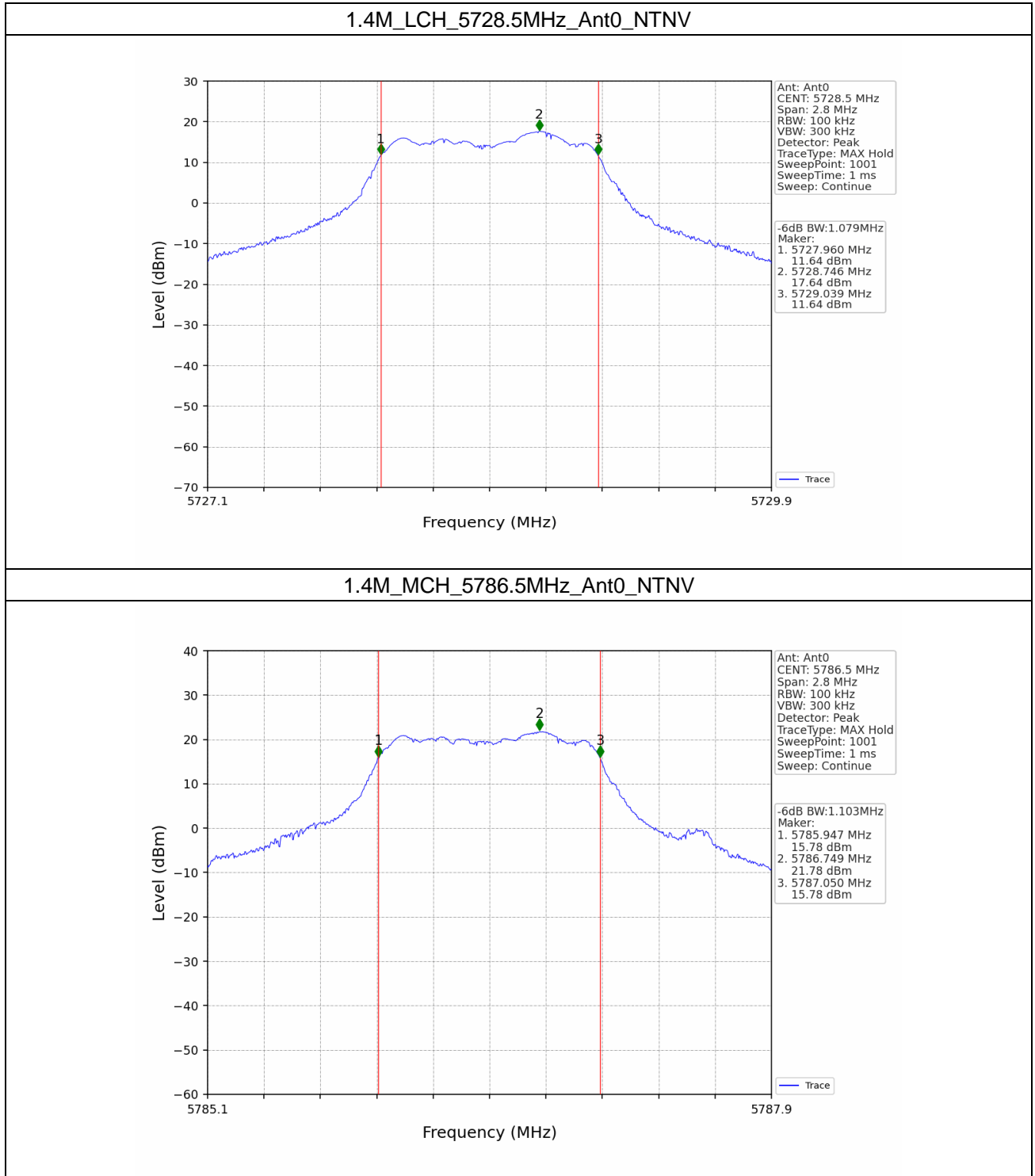
Page: 134 of 172

2.2 6dB BW

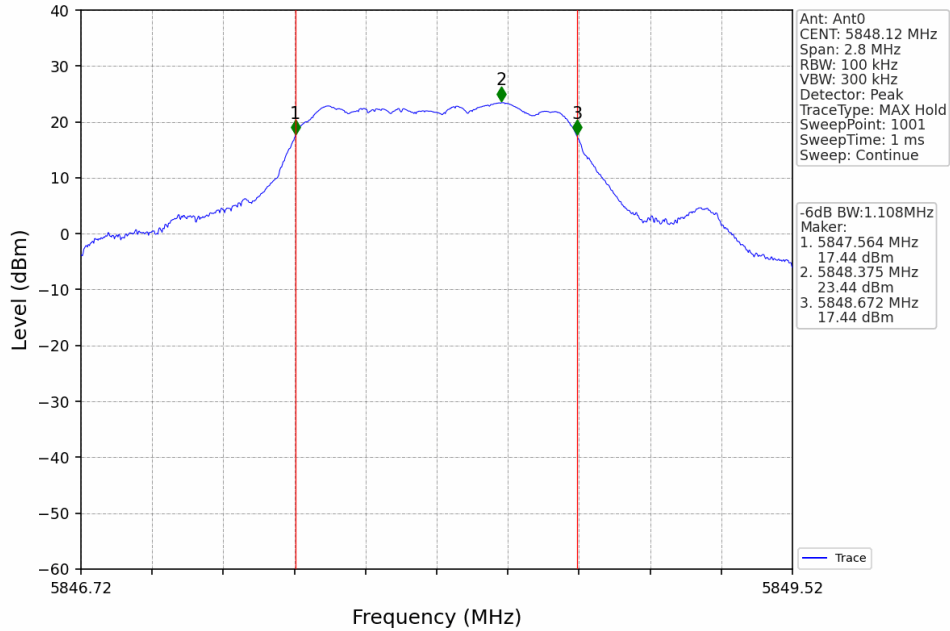
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	0	1.079	≥ 0.5	Pass
		5786.5	0	1.103	≥ 0.5	Pass
		5848.12	0	1.108	≥ 0.5	Pass
3M	MIMO	5727.5	0	2.185	≥ 0.5	Pass
		5784.5	0	2.191	≥ 0.5	Pass
		5847.2	0	2.188	≥ 0.5	Pass
10M	MIMO	5730.5	0	9.028	≥ 0.5	Pass
		5787.5	0	9.024	≥ 0.5	Pass
		5844.5	0	9.035	≥ 0.5	Pass
20M	MIMO	5735.5	0	18.045	≥ 0.5	Pass
		5787.5	0	18.032	≥ 0.5	Pass
		5839.5	0	18.021	≥ 0.5	Pass
40M	MIMO	5745.5	0	35.957	≥ 0.5	Pass
		5787.5	0	35.996	≥ 0.5	Pass
		5829.5	0	35.989	≥ 0.5	Pass

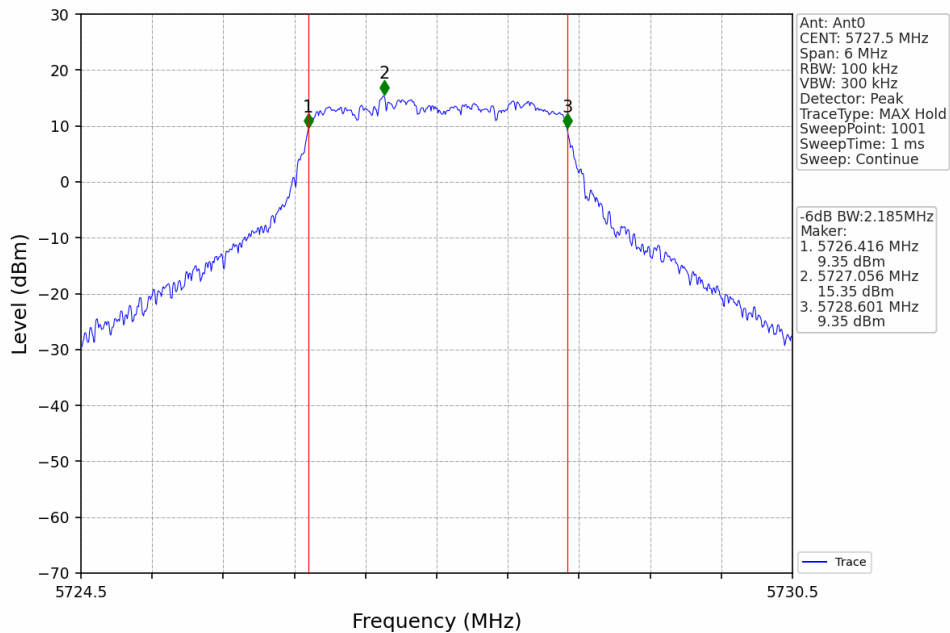
2.2.2 Test Graph



1.4M_HCH_5848.12MHz_Ant0_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



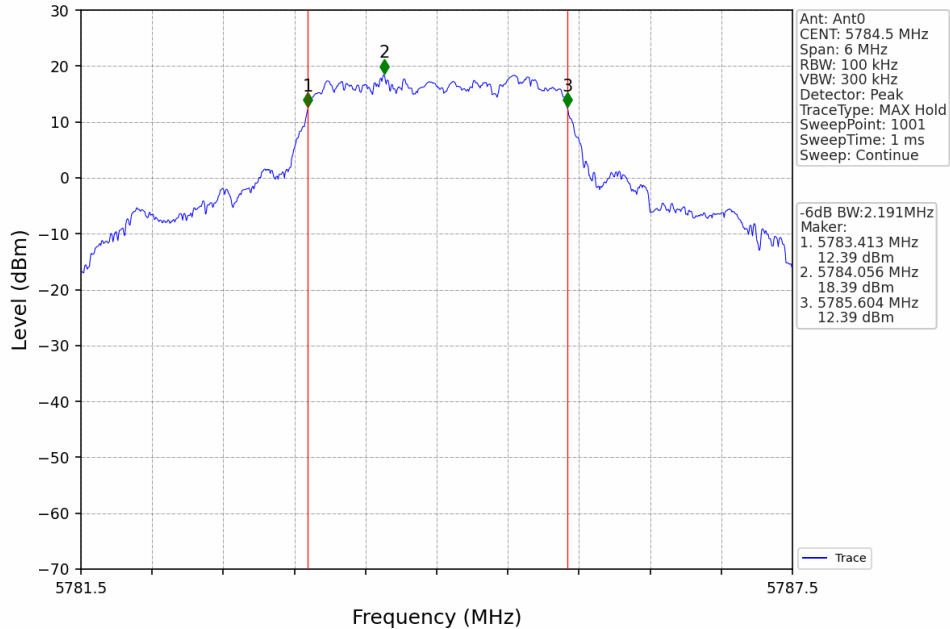
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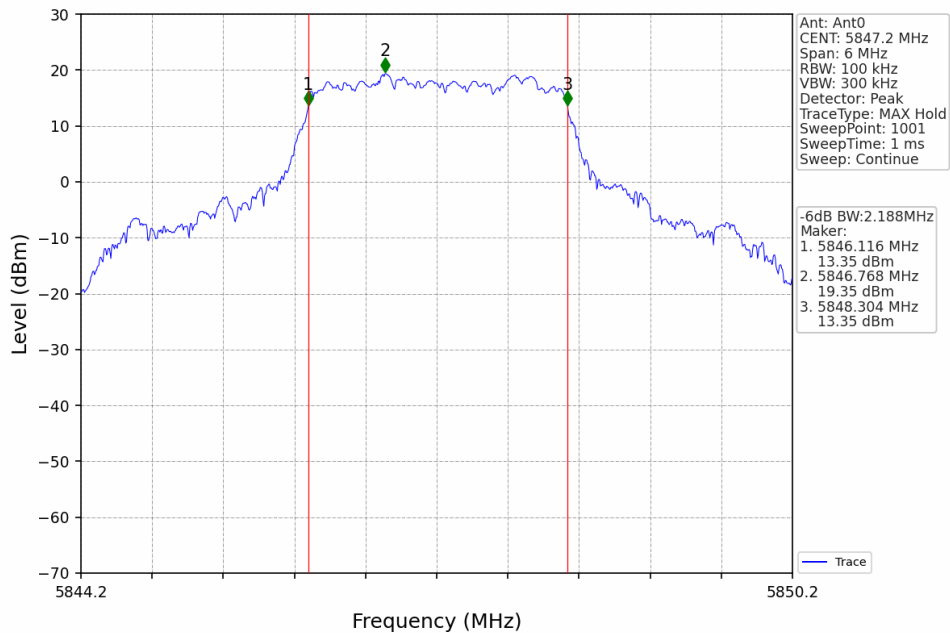
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3M_MCH_5784.5MHz_Ant0_NTNV



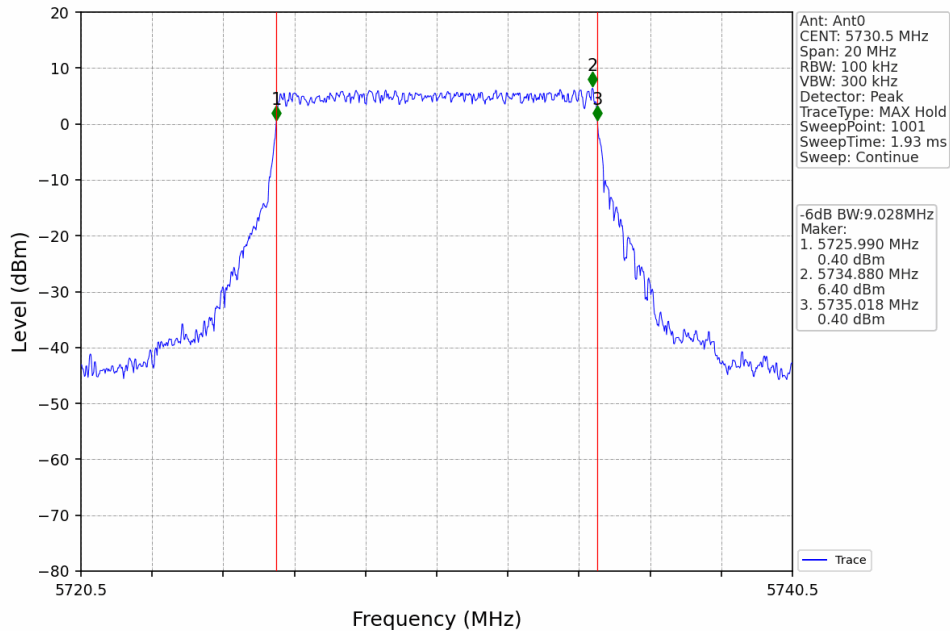
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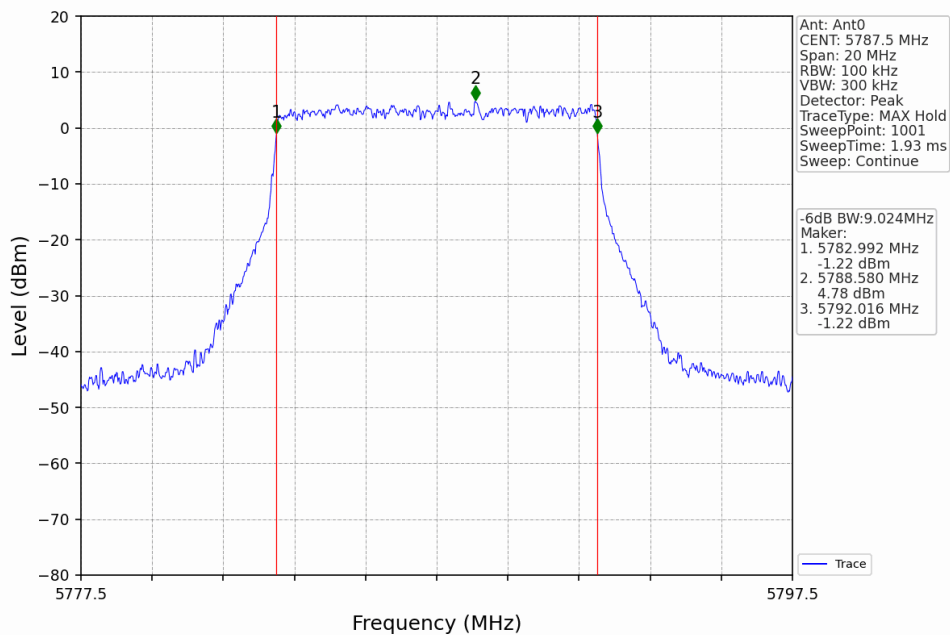
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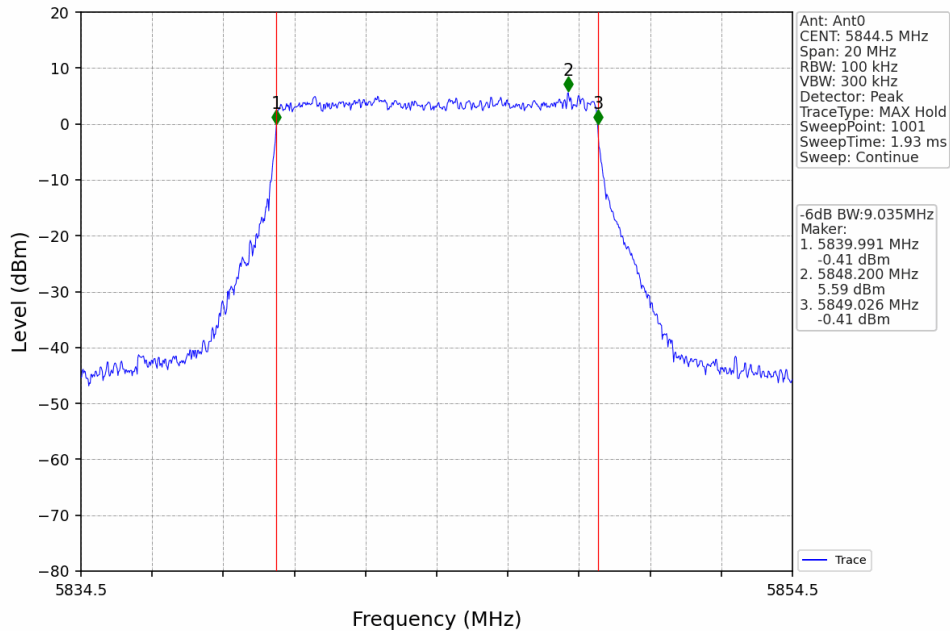
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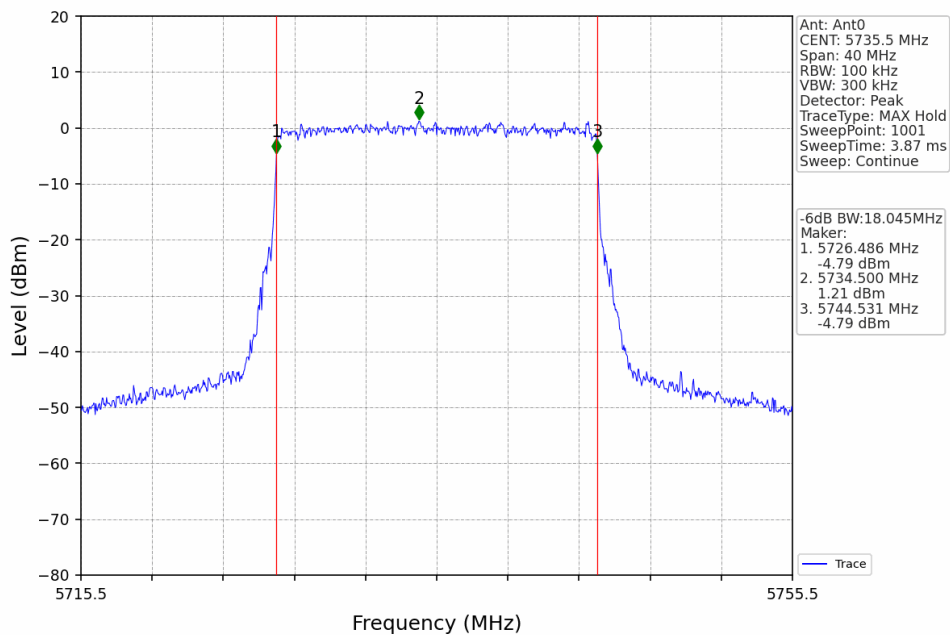
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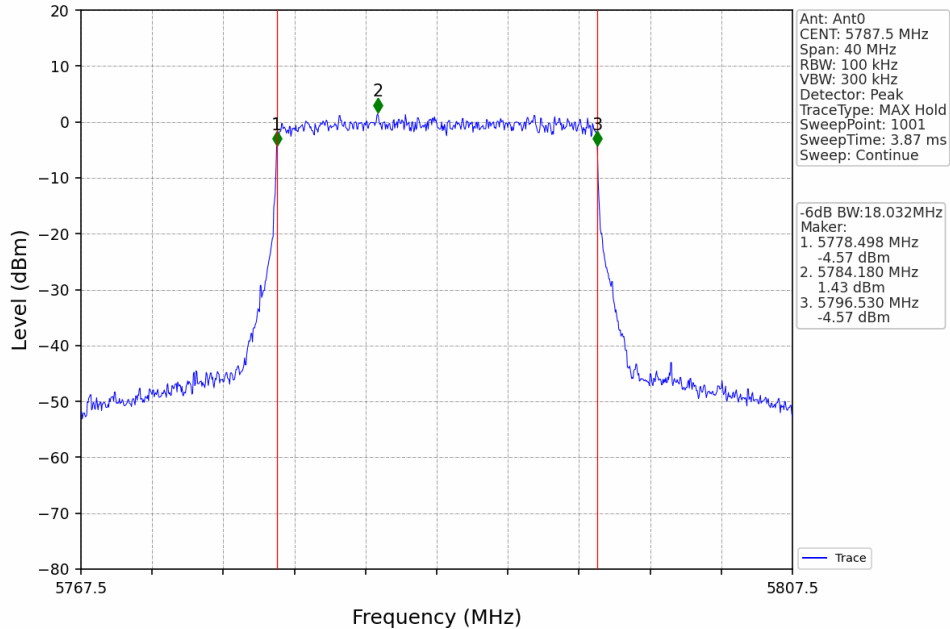
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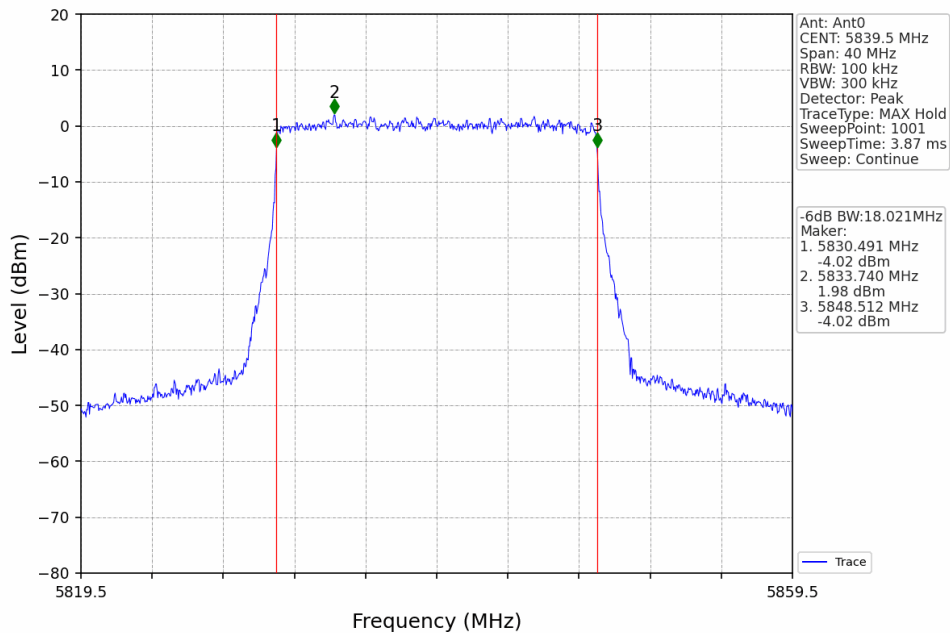
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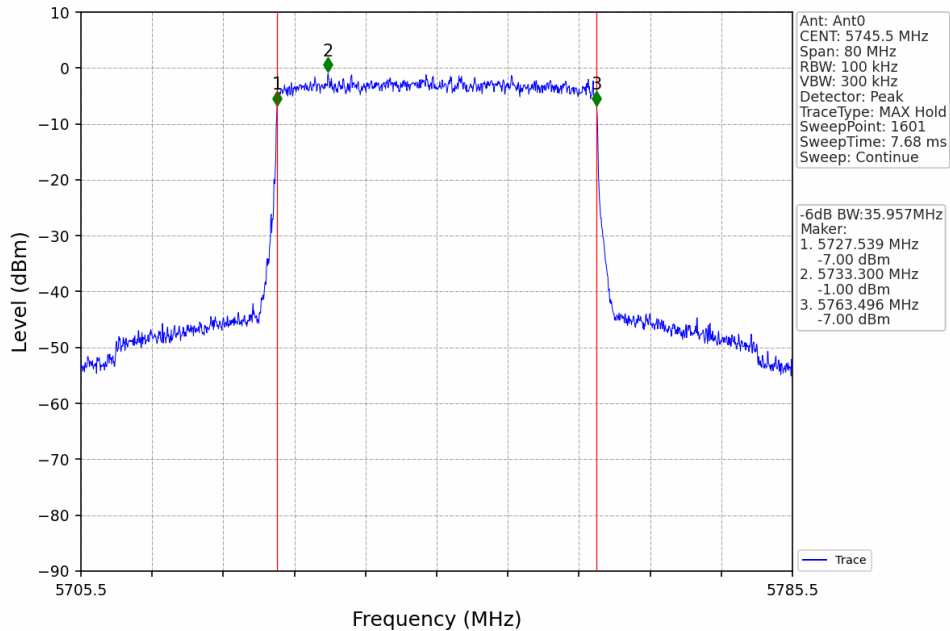
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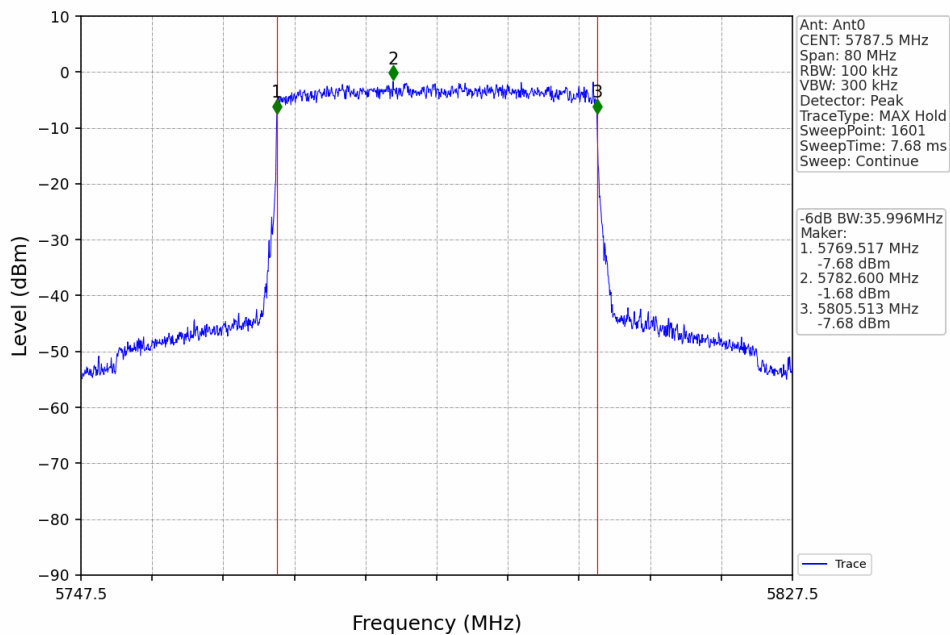
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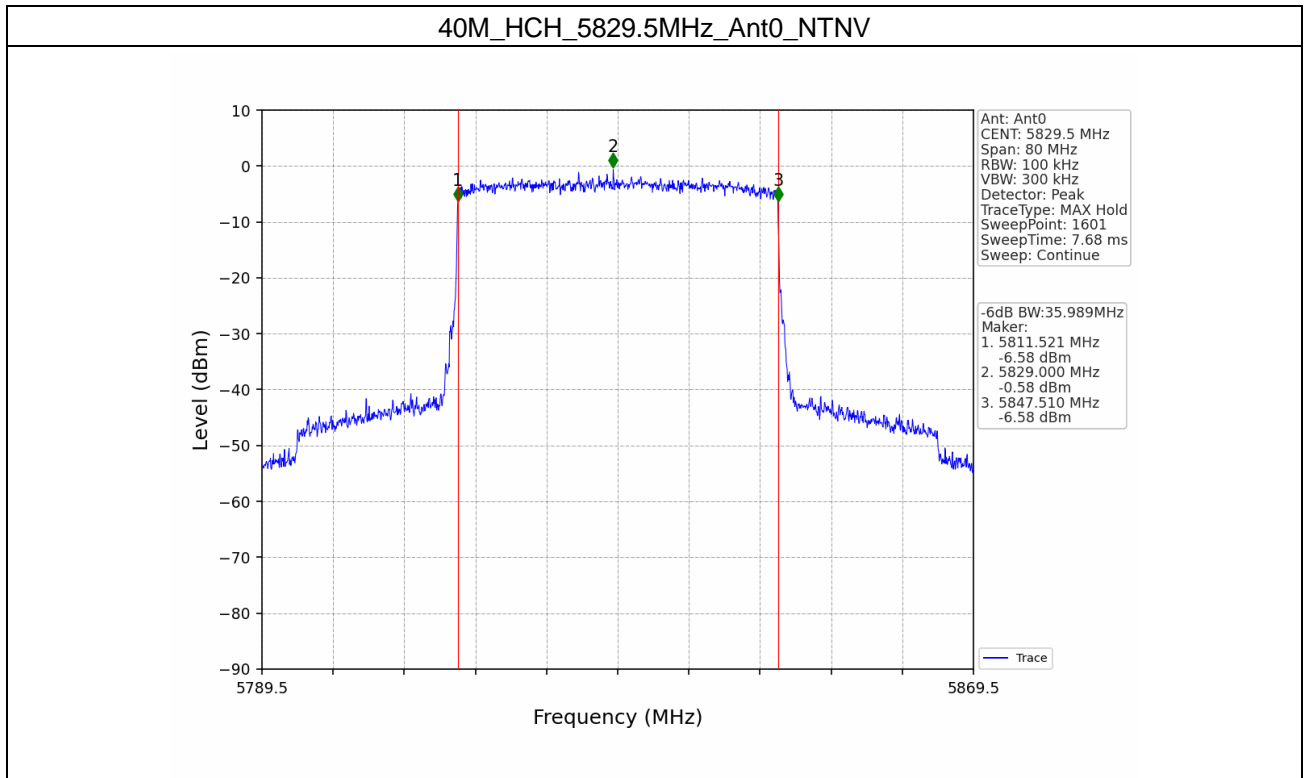


40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV





3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT0	ANT1	MIMO	Limit	
1.4M	MIMO	5728.5	23.80	24.01	26.92	<=28.99	Pass
		5786.5	23.20	23.83	26.54	<=28.99	Pass
		5848.12	23.34	23.05	26.21	<=28.99	Pass
3M	MIMO	5727.5	22.06	22.40	25.24	<=28.99	Pass
		5784.5	22.72	22.41	25.58	<=28.99	Pass
		5847.2	22.98	22.14	25.59	<=28.99	Pass
10M	MIMO	5730.5	13.62	13.98	16.81	<=28.99	Pass
		5787.5	13.60	14.14	16.89	<=28.99	Pass
		5844.5	14.11	14.11	17.12	<=28.99	Pass
20M	MIMO	5735.5	13.20	13.59	16.41	<=28.99	Pass
		5787.5	13.23	13.80	16.53	<=28.99	Pass
		5839.5	13.72	13.76	16.75	<=28.99	Pass
40M	MIMO	5745.5	13.52	13.79	16.67	<=28.99	Pass
		5787.5	13.12	13.71	16.44	<=28.99	Pass
		5829.5	13.72	13.81	16.78	<=28.99	Pass

Note1: Antenna Gain: Ant0: 3.5dBi; Ant3: 4dBi;
Note2: Directional gain (dBi) = gain of individual transmit antennas (dBi) + array gain (dB)=7.01dBi
Array gain = 10 log(NANT), where NANT is the number of transmit antennas

4. Maximum Power Spectral Density

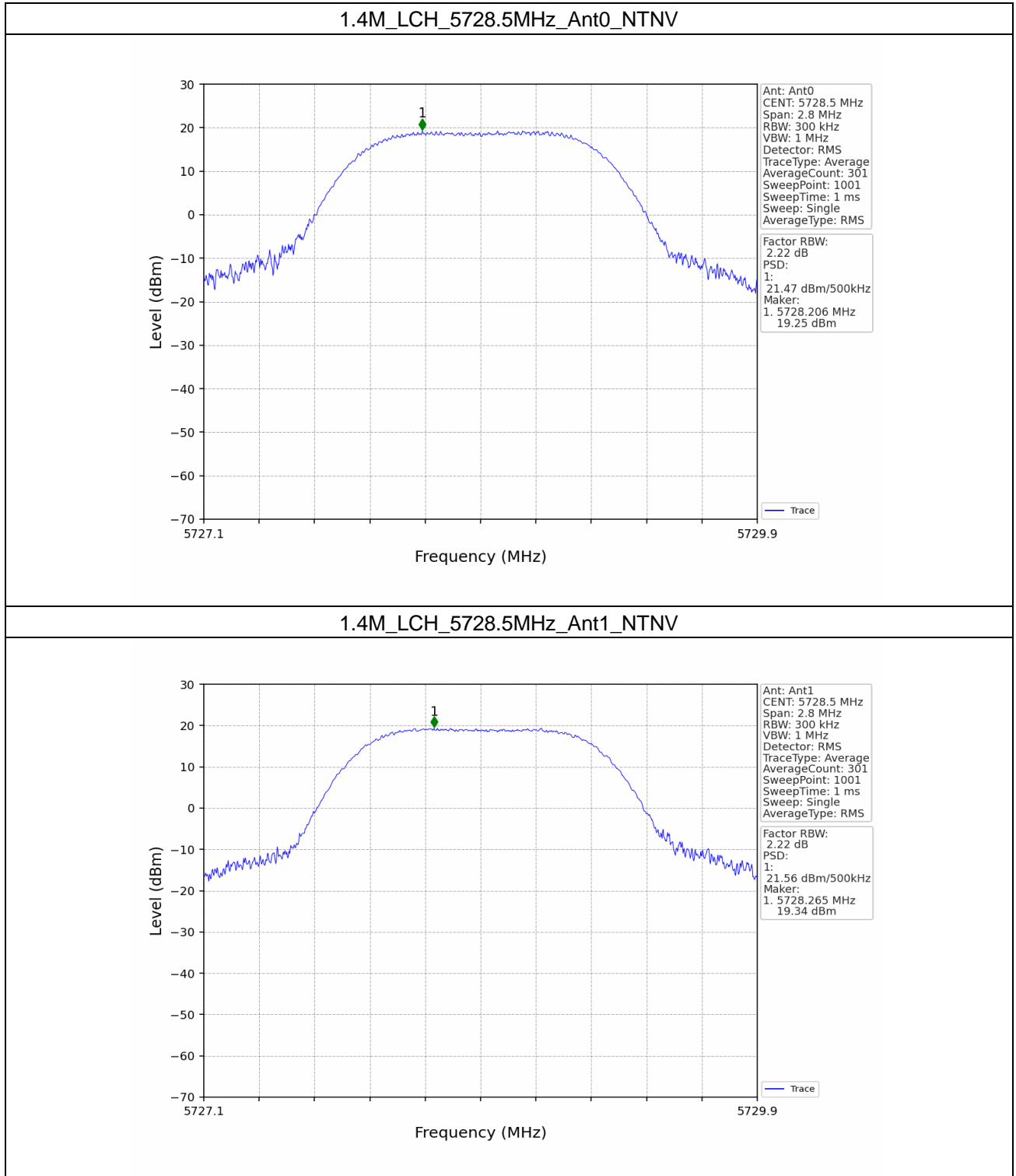
4.1 PSD-Band3

4.1.1 Test Result

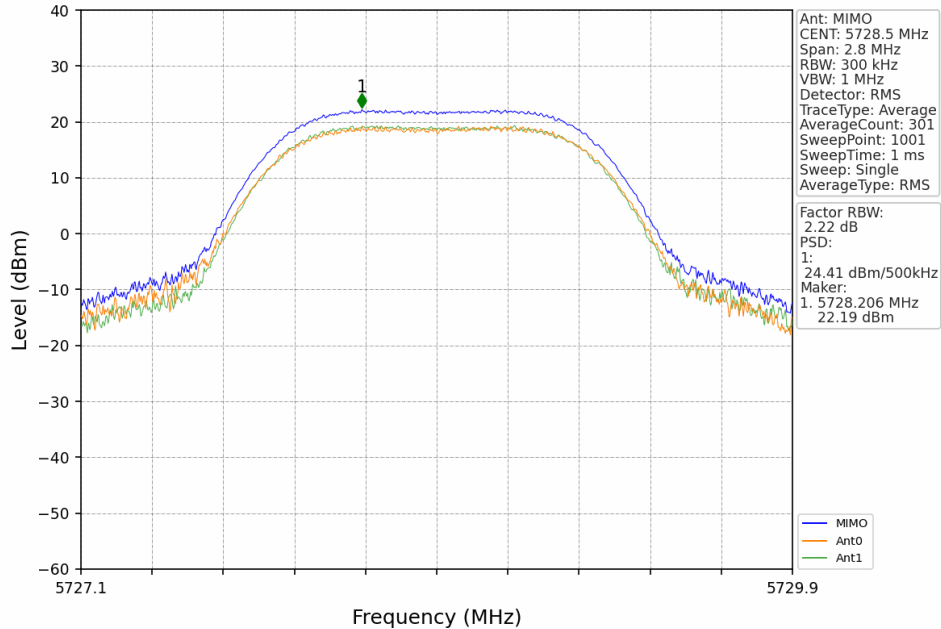
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
1.4M	MIMO	5728.5	21.47	21.56	24.41	<=28.99	Pass
		5786.5	21.93	22.68	25.26	<=28.99	Pass
		5848.12	21.99	21.41	24.58	<=28.99	Pass
3M	MIMO	5727.5	16.92	17.45	20.15	<=28.99	Pass
		5784.5	17.32	17.05	20.04	<=28.99	Pass
		5847.2	17.92	17.05	20.34	<=28.99	Pass
10M	MIMO	5730.5	2.22	2.62	5.18	<=28.99	Pass
		5787.5	1.95	2.66	5.31	<=28.99	Pass
		5844.5	2.62	2.60	5.49	<=28.99	Pass
20M	MIMO	5735.5	-1.22	-0.88	1.79	<=28.99	Pass
		5787.5	-1.34	-0.55	1.96	<=28.99	Pass
		5839.5	-0.87	-0.62	2.05	<=28.99	Pass
40M	MIMO	5745.5	-3.95	-3.65	-0.90	<=28.99	Pass
		5787.5	-4.28	-3.77	-1.17	<=28.99	Pass
		5829.5	-3.84	-3.56	-0.84	<=28.99	Pass

Note1: Antenna Gain: Ant0: 3.5dBi; Ant3: 4dBi;
Note2: Directional gain (dBi) = gain of individual transmit antennas (dBi) + array gain (dB)=7.01dBi
Array gain = 10 log(N_{ANT}), where N_{ANT} is the number of transmit antennas

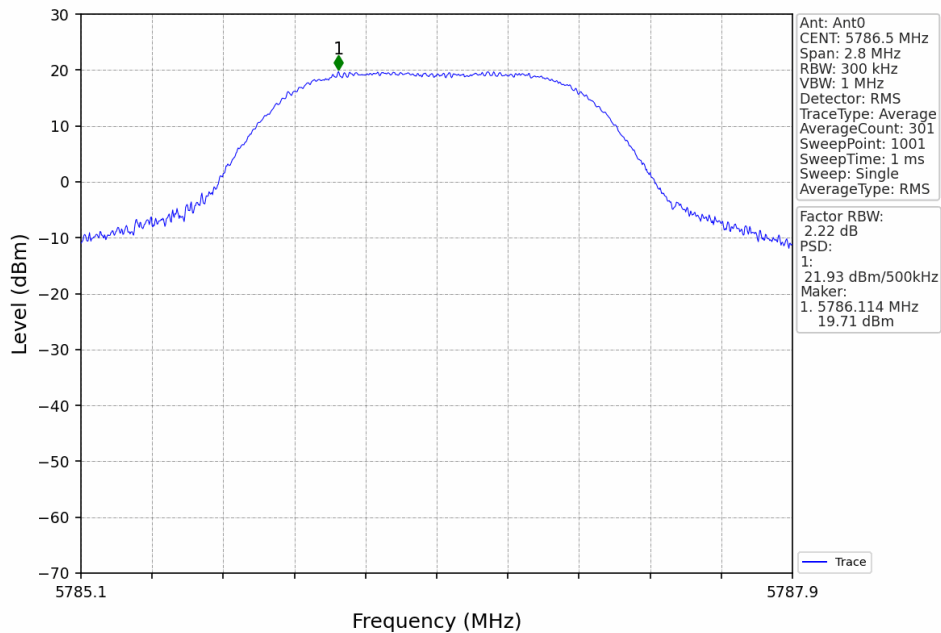
4.1.2 Test Graph



1.4M_LCH_5728.5MHz_MIMO_NTNV



1.4M_MCH_5786.5MHz_Ant0_NTNV



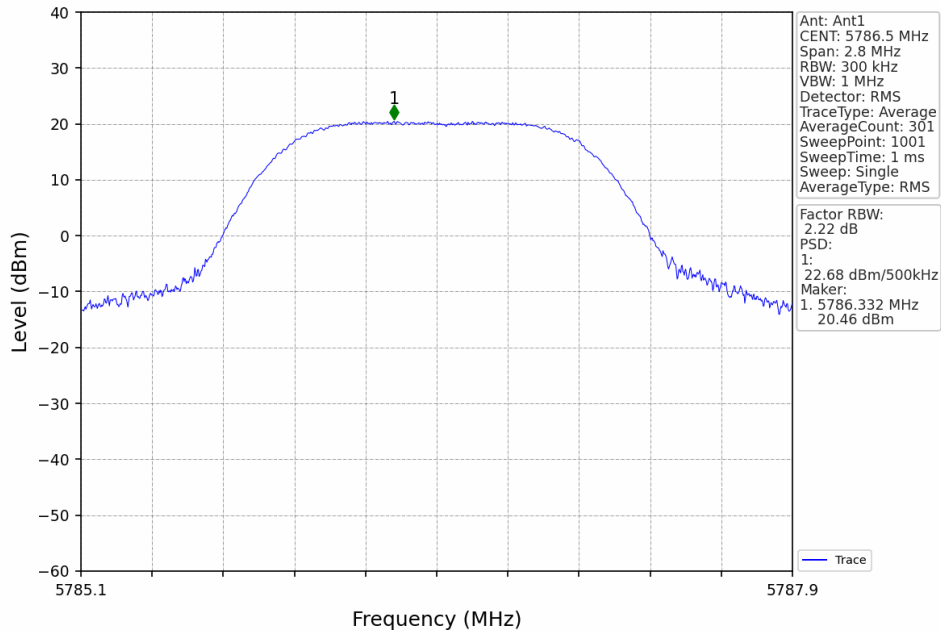
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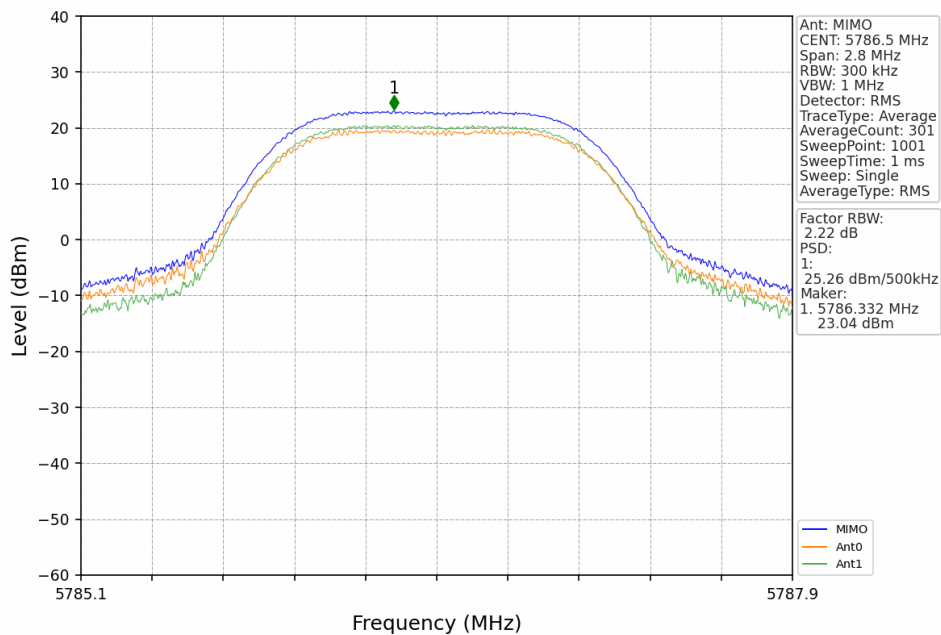
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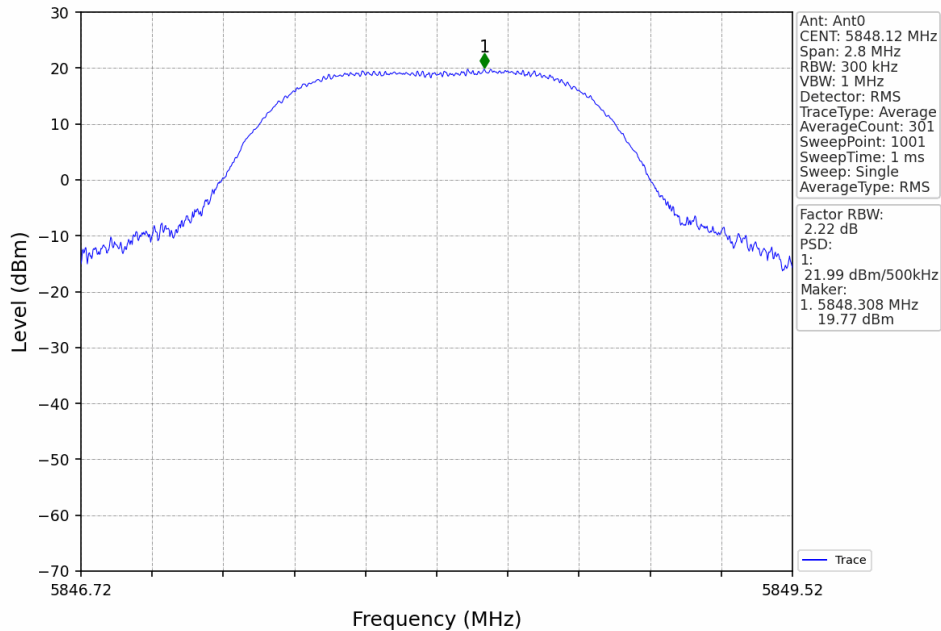
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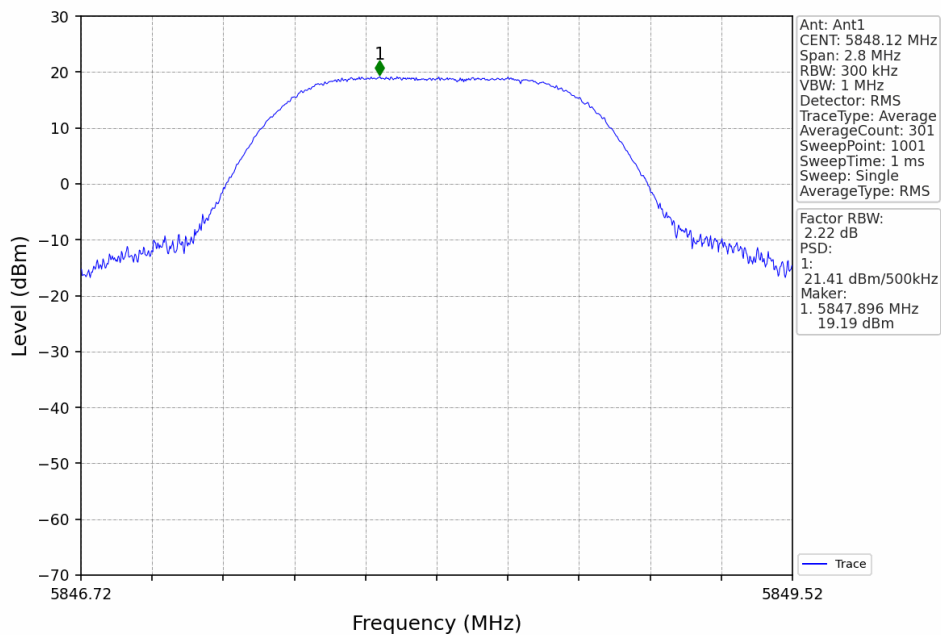
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1.4M_HCH_5848.12MHz_Ant0_NTNV



1.4M_HCH_5848.12MHz_Ant1_NTNV



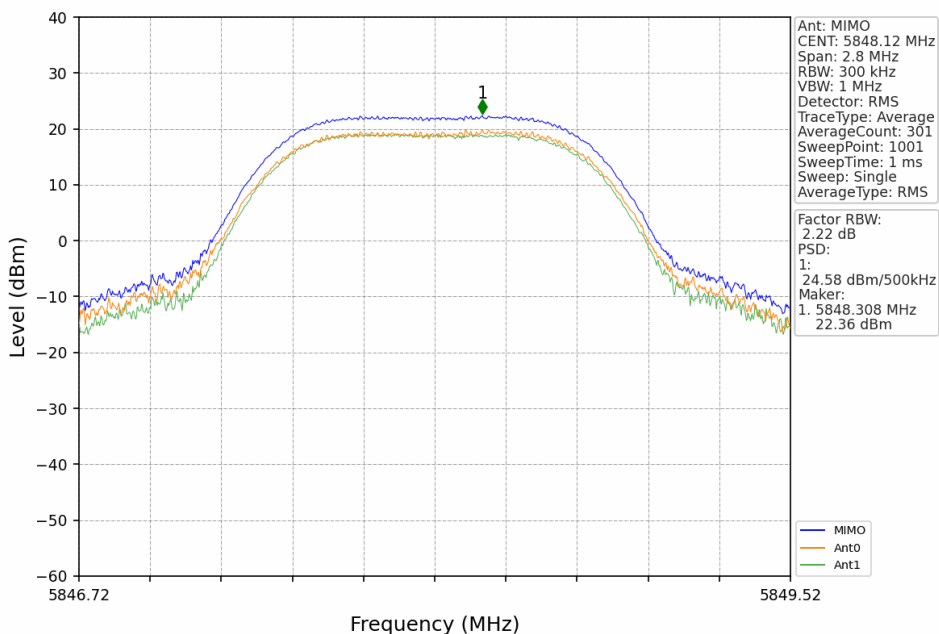
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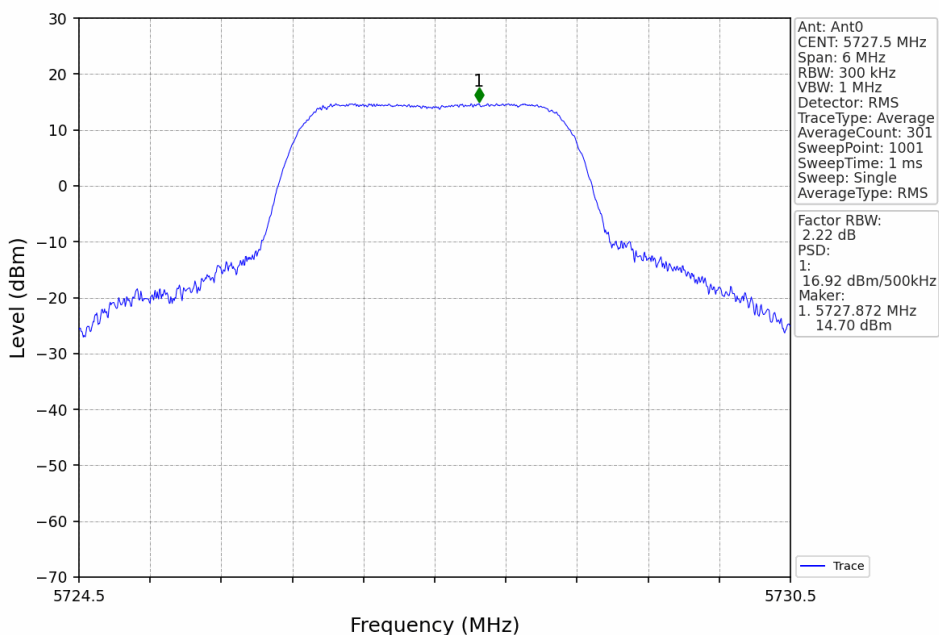
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1.4M_HCH_5848.12MHz_MIMO_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



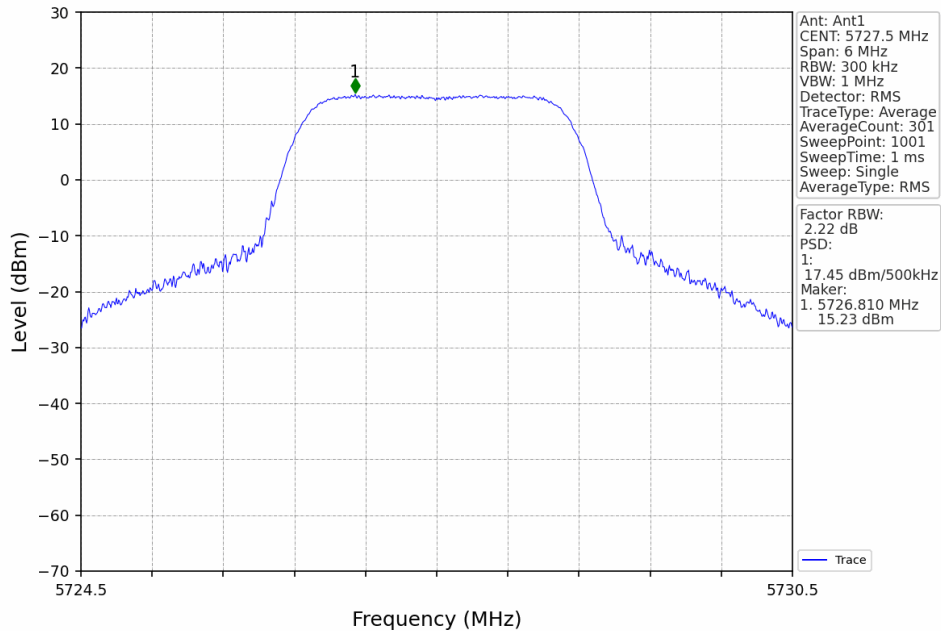
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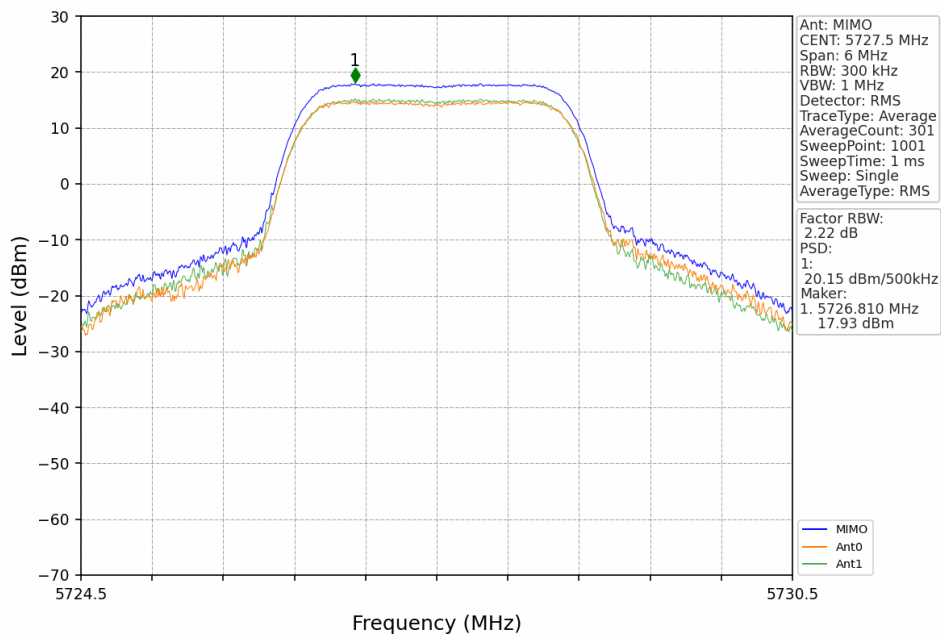
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3M_LCH_5727.5MHz_MIMO_NTNV



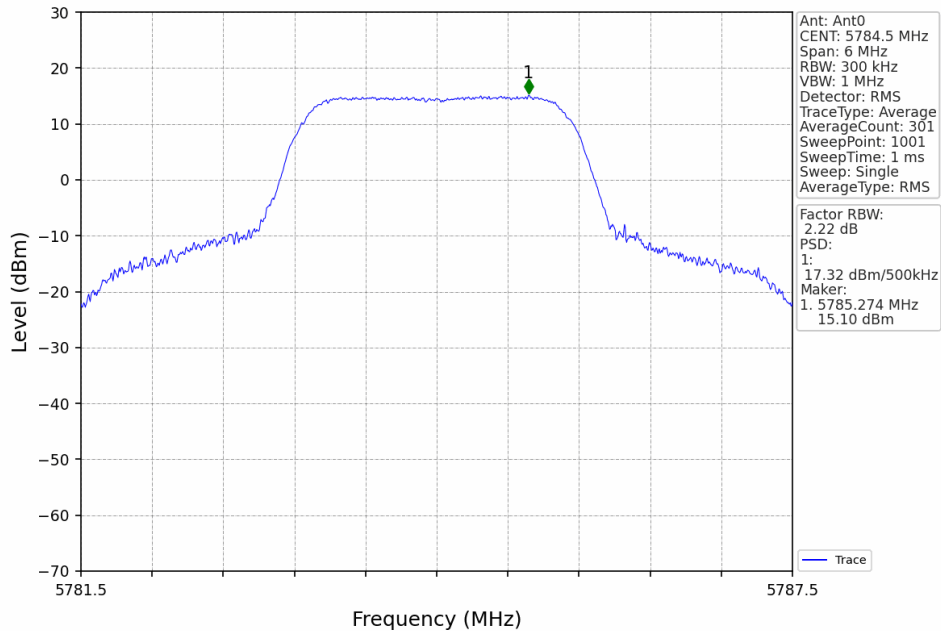
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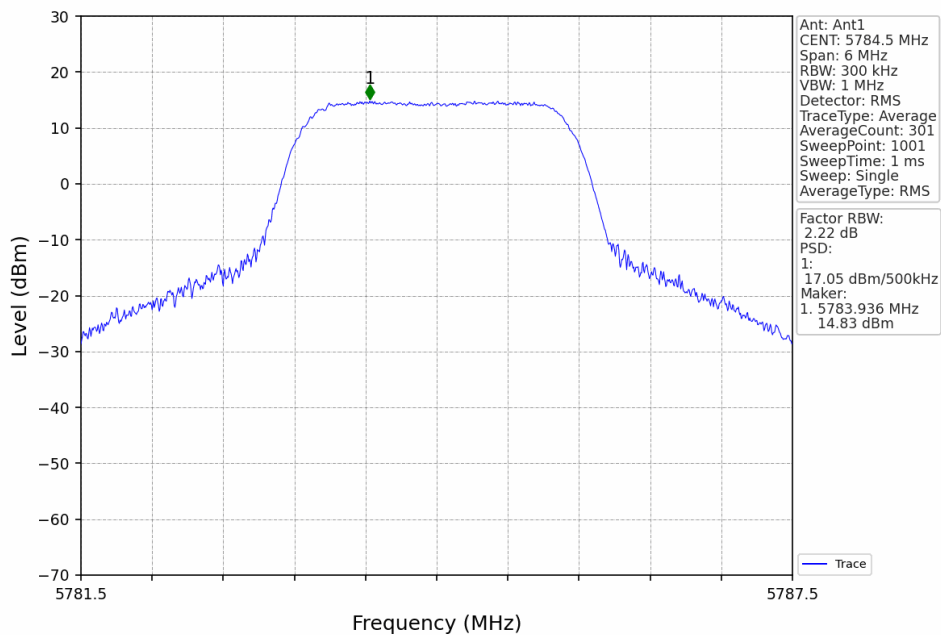
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3M_MCH_5784.5MHz_Ant0_NTNV



3M_MCH_5784.5MHz_Ant1_NTNV



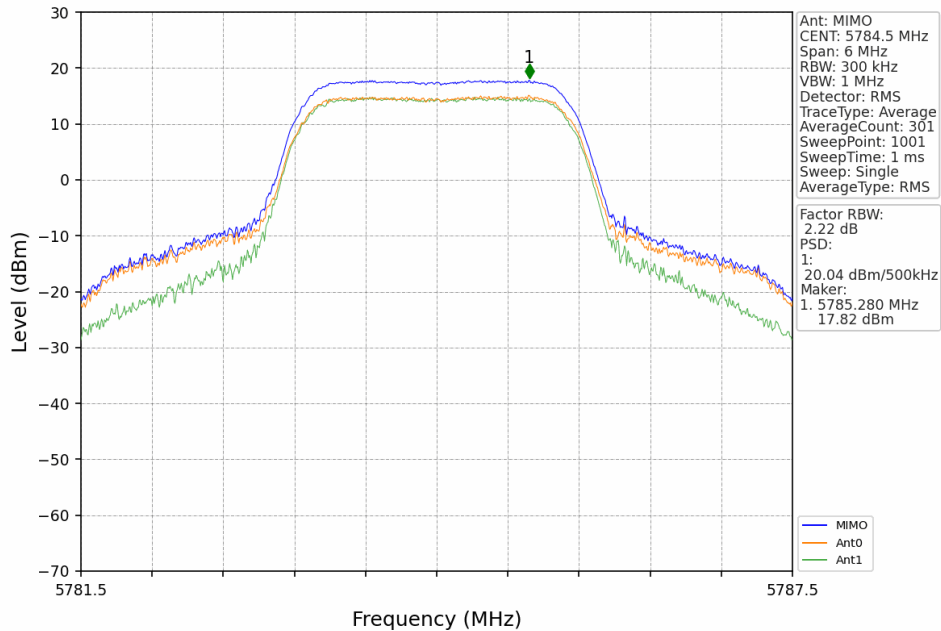
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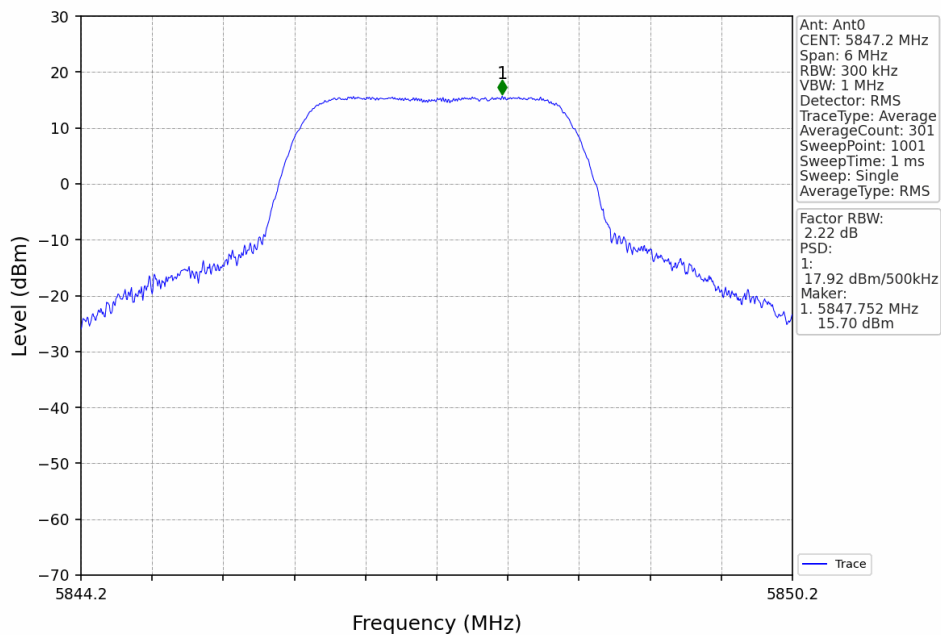
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3M_HCH_5847.2MHz_Ant0_NTNV



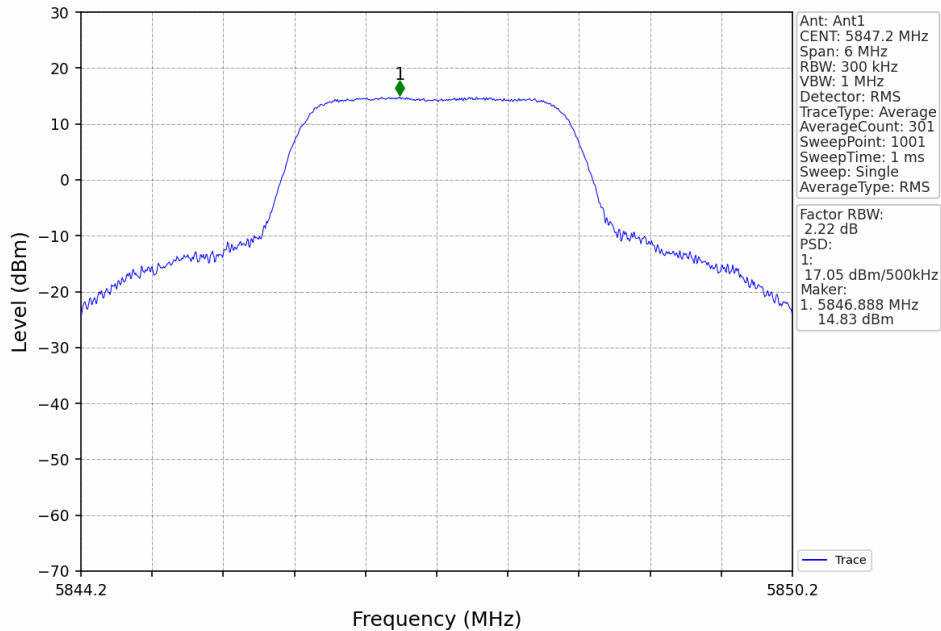
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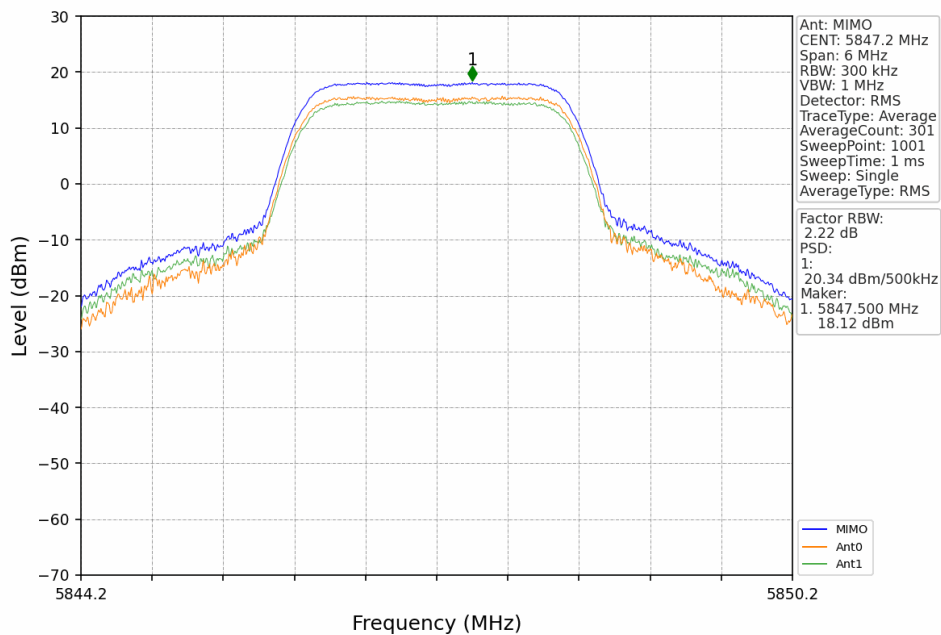
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3M_HCH_5847.2MHz_MIMO_NTNV



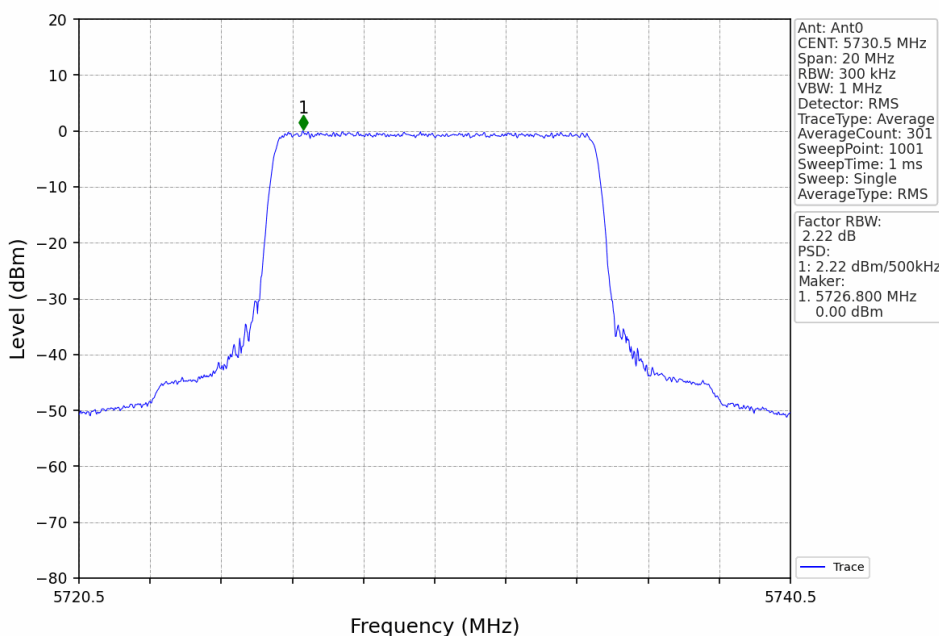
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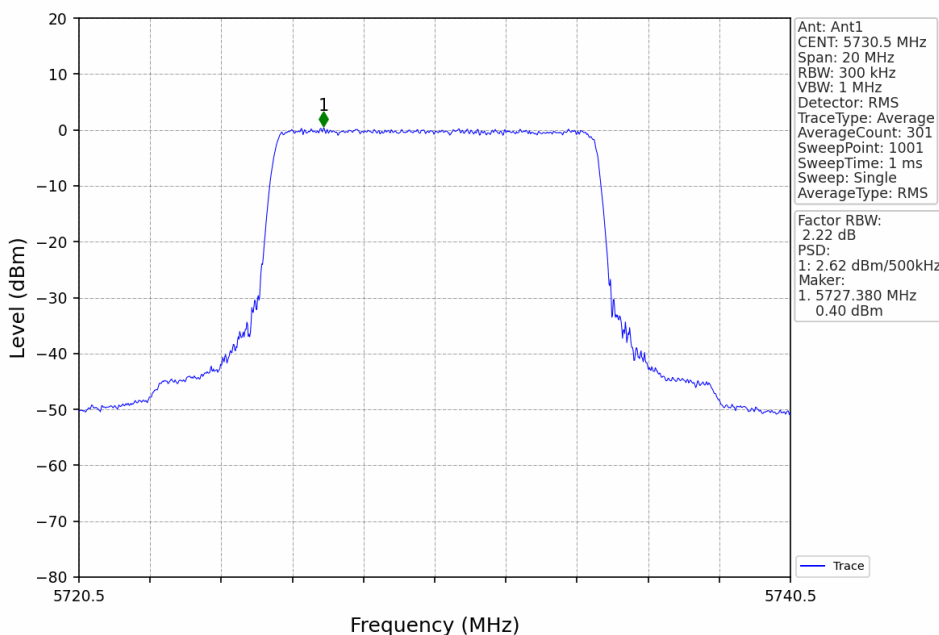
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10M_LCH_5730.5MHz_Ant0_NTNV



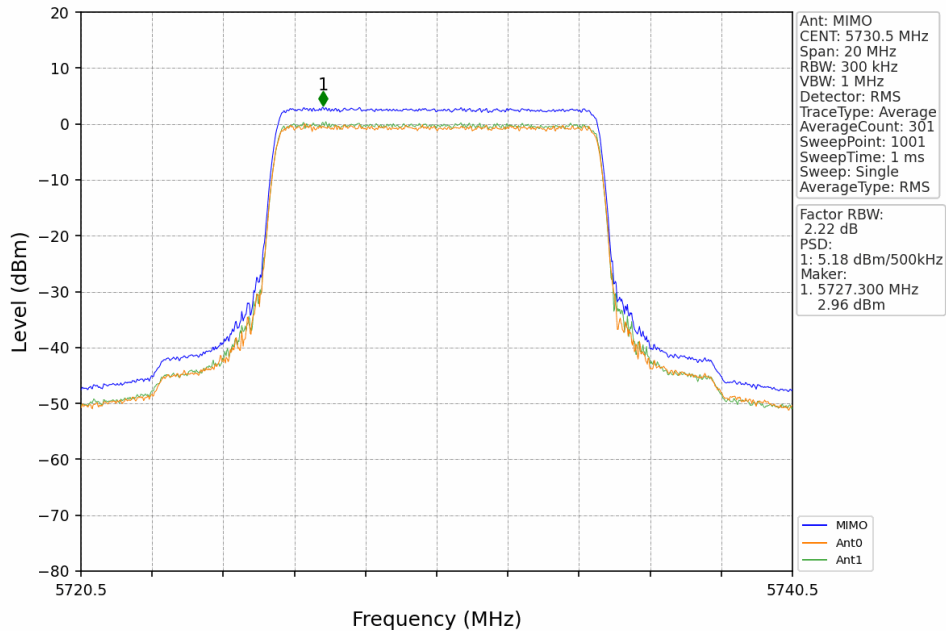
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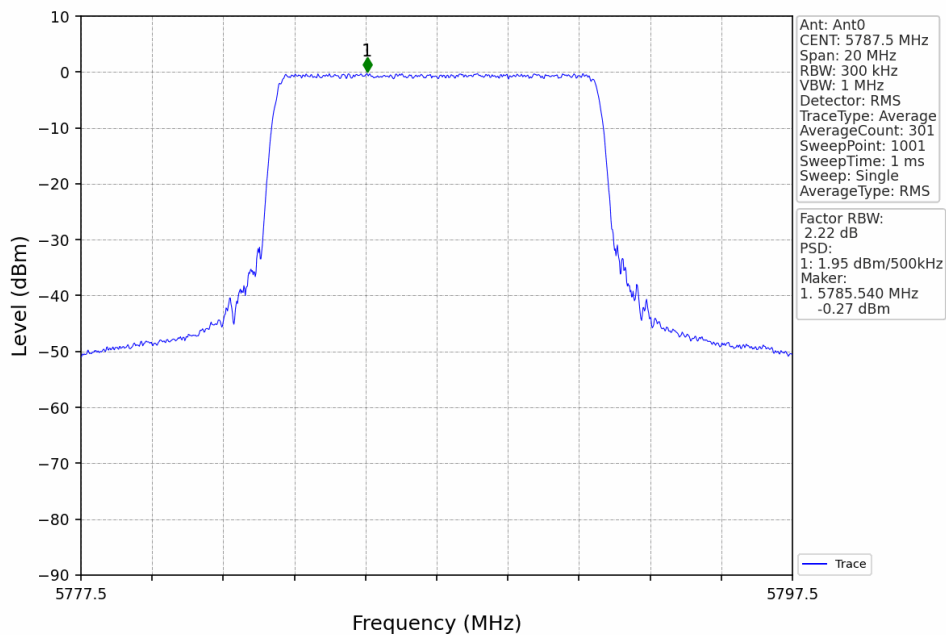
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10M_MCH_5787.5MHz_Ant0_NTNV



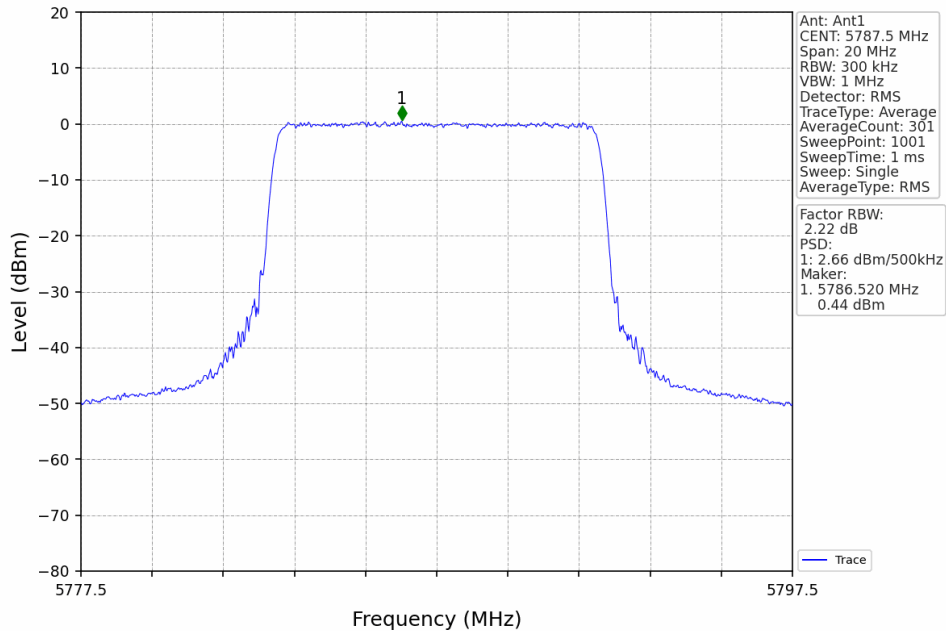
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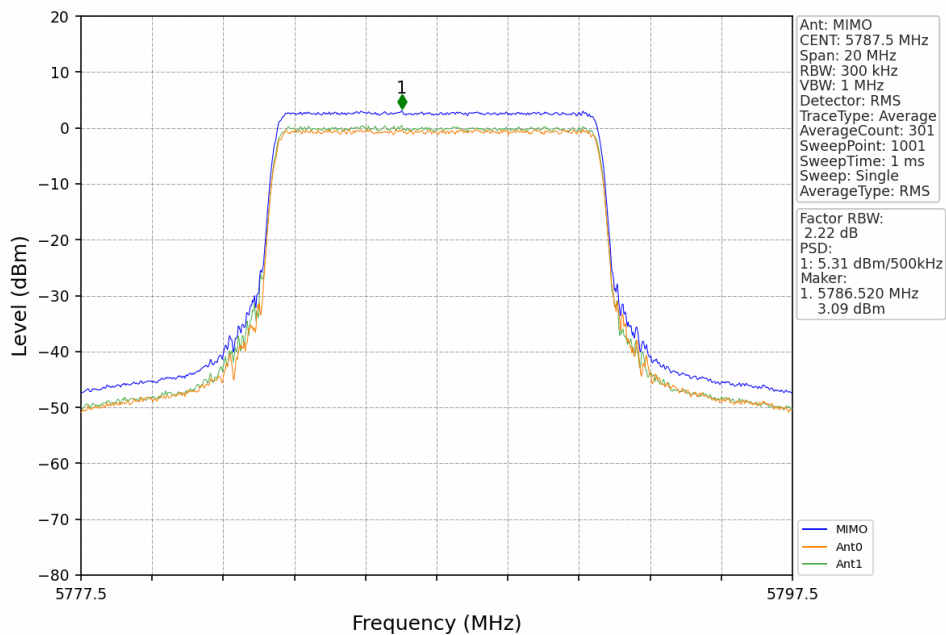
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10M_MCH_5787.5MHz_Ant1_NTNV



10M_MCH_5787.5MHz_MIMO_NTNV



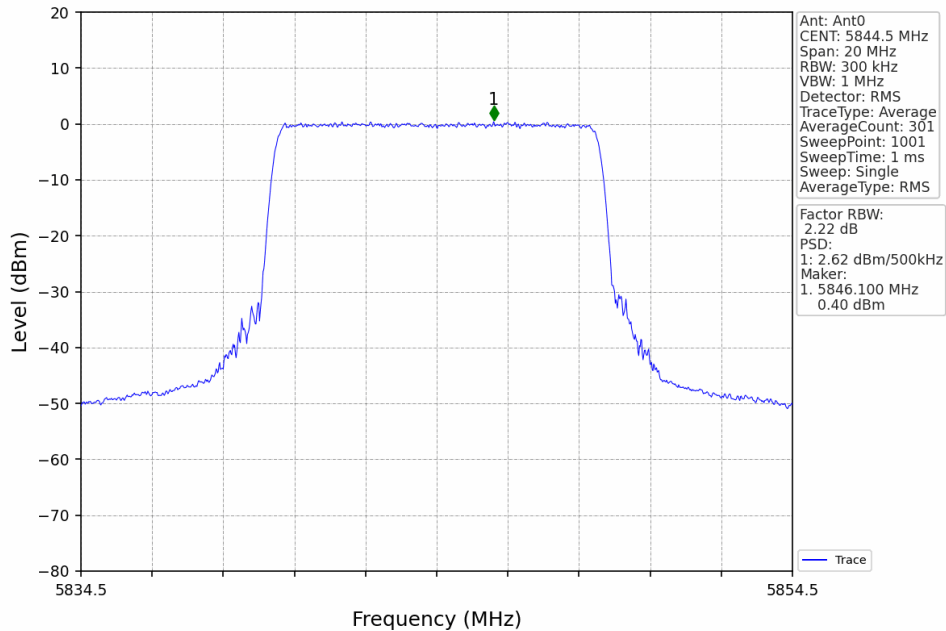
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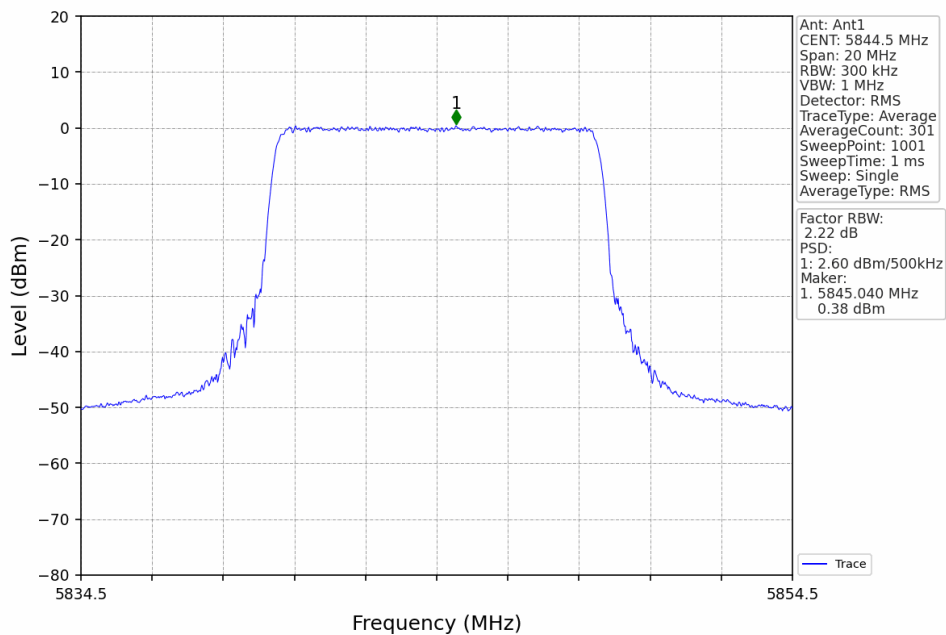
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10M_HCH_5844.5MHz_Ant0_NTNV



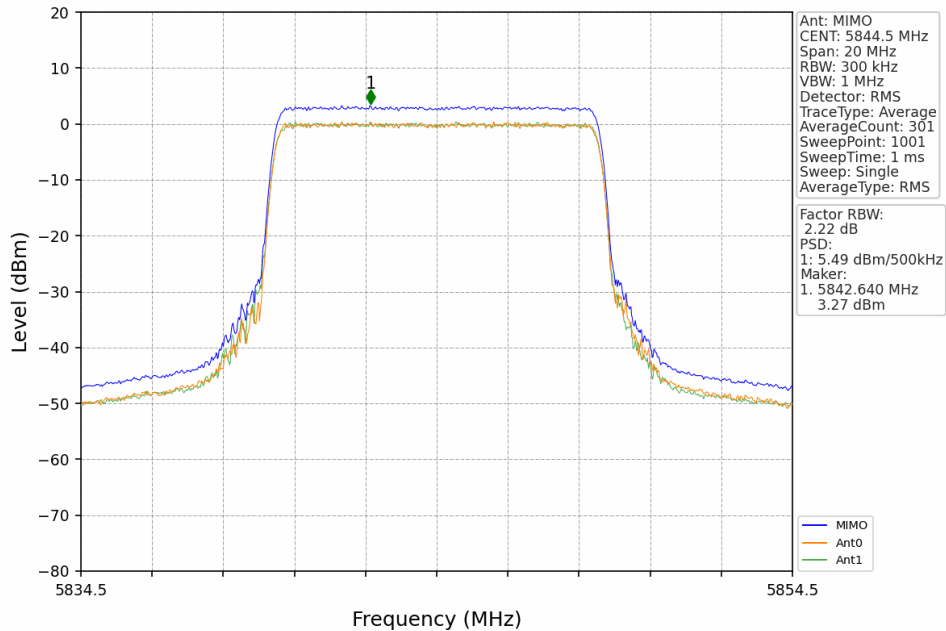
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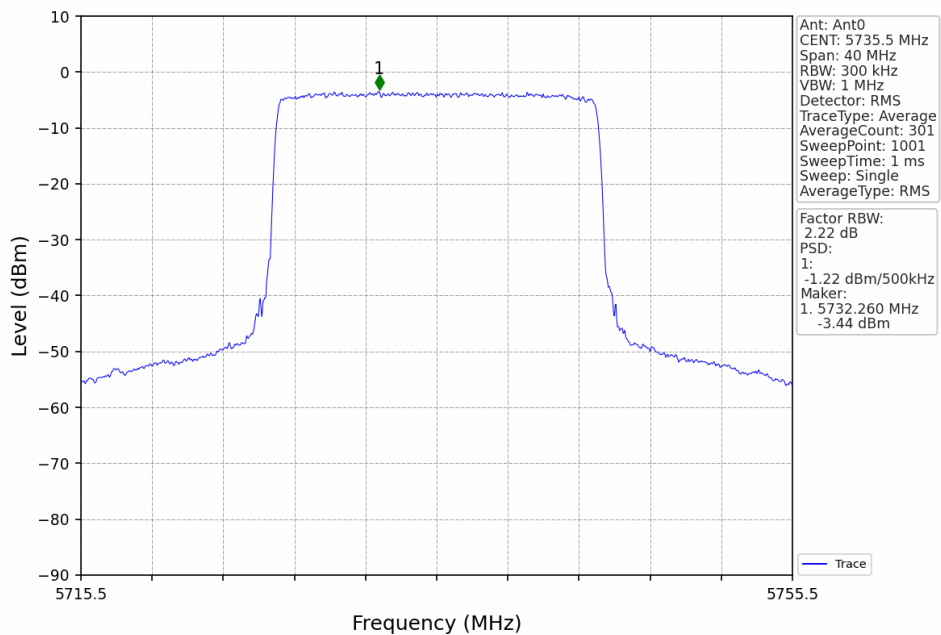
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10M_HCH_5844.5MHz_MIMO_NTNV



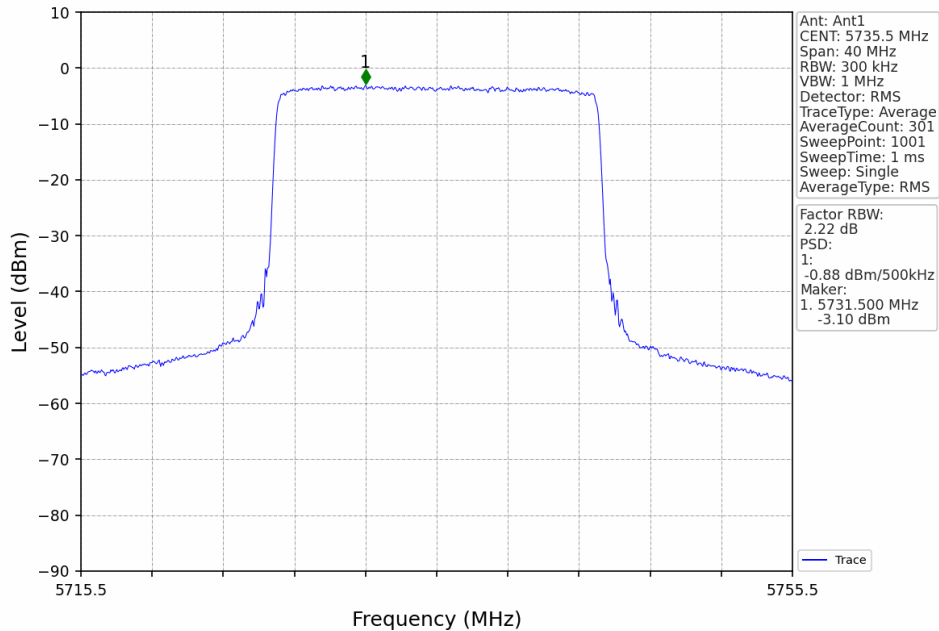
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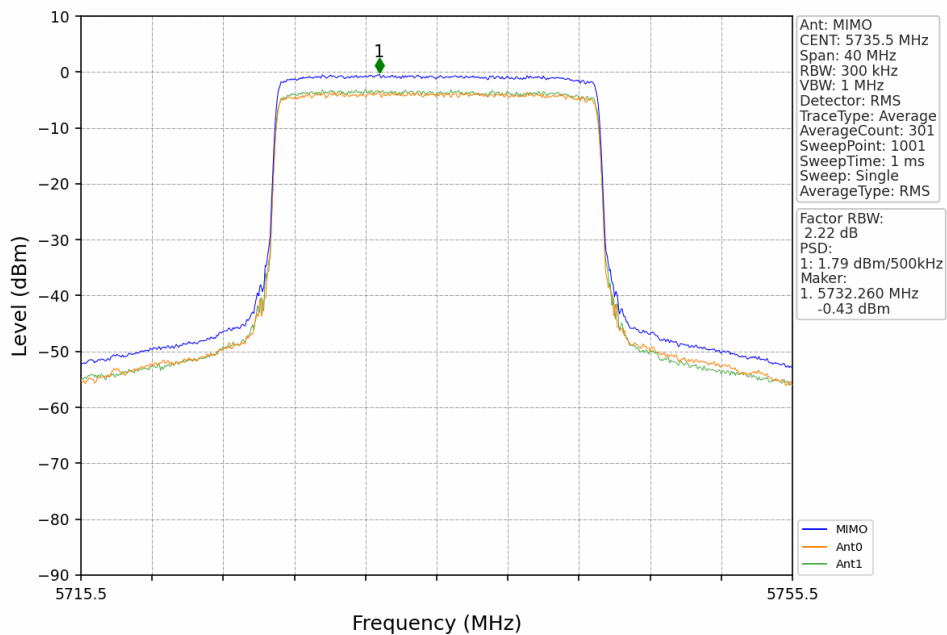
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20M_LCH_5735.5MHz_MIMO_NTNV



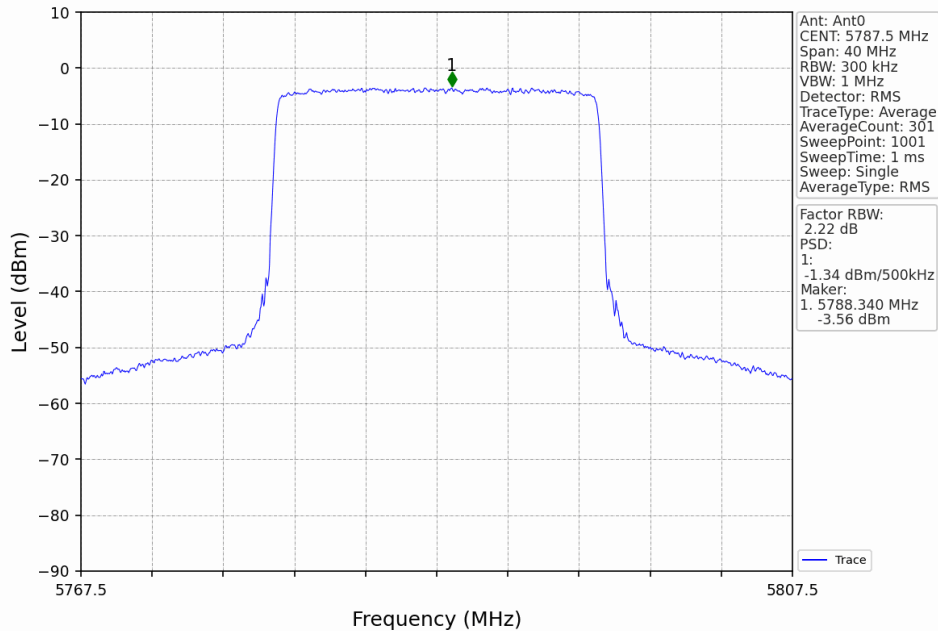
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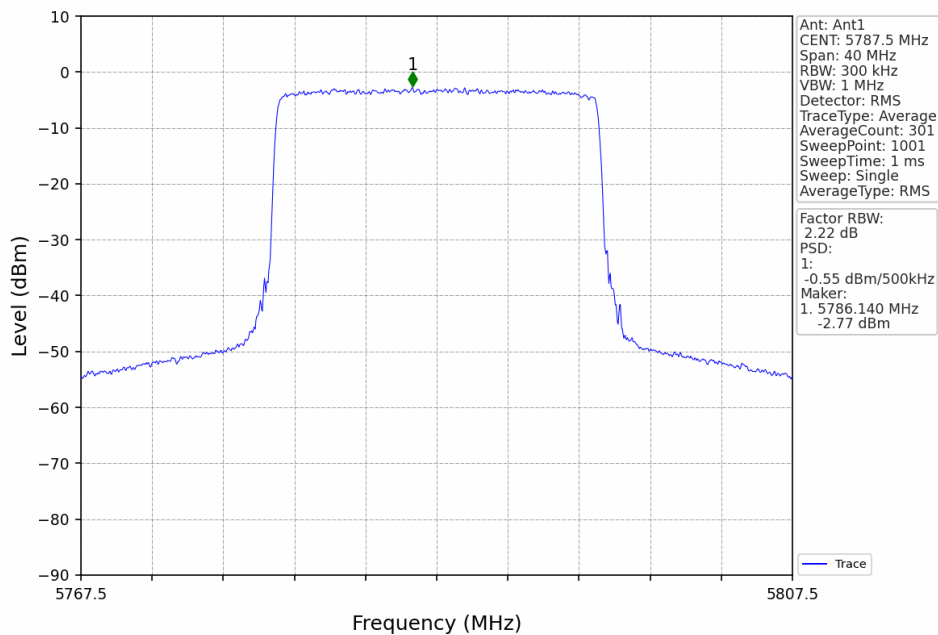
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20M_MCH_5787.5MHz_Ant0_NTNV



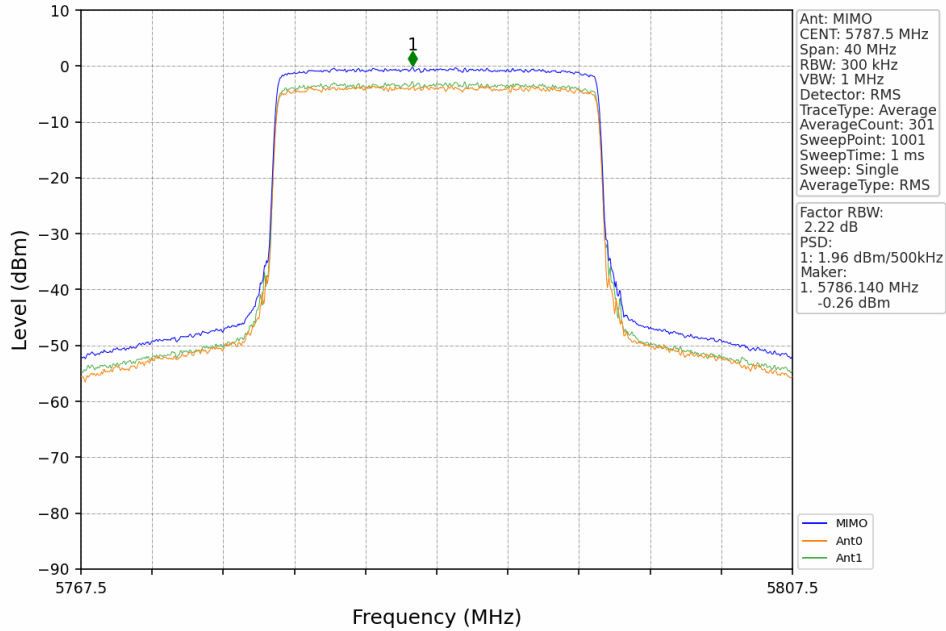
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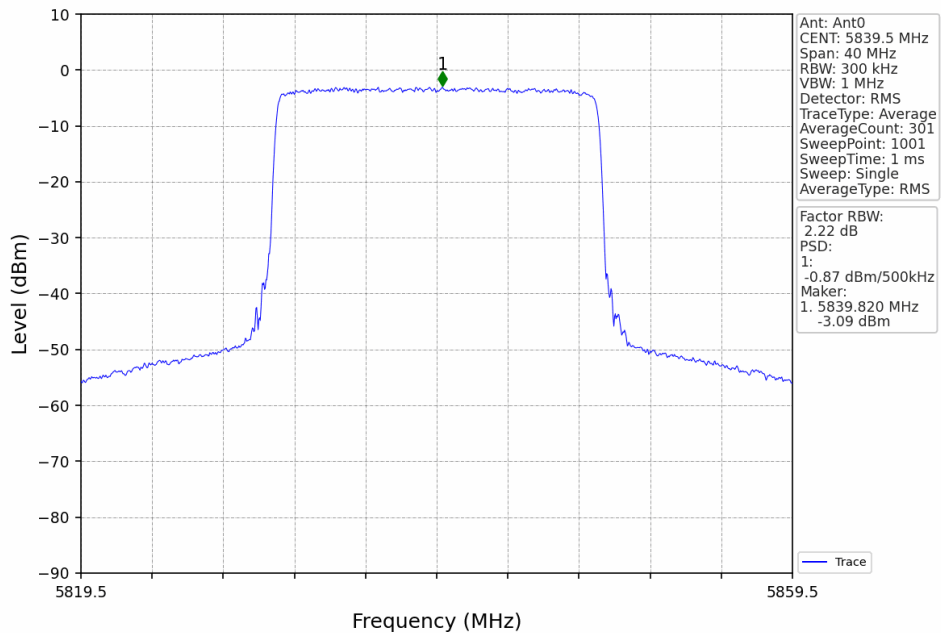
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20M_HCH_5839.5MHz_Ant0_NTNV



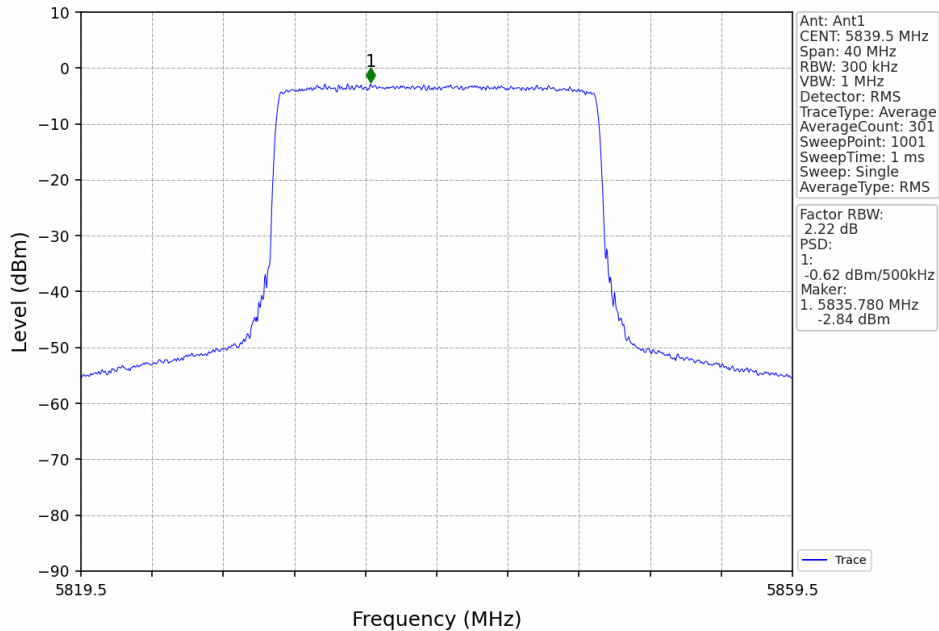
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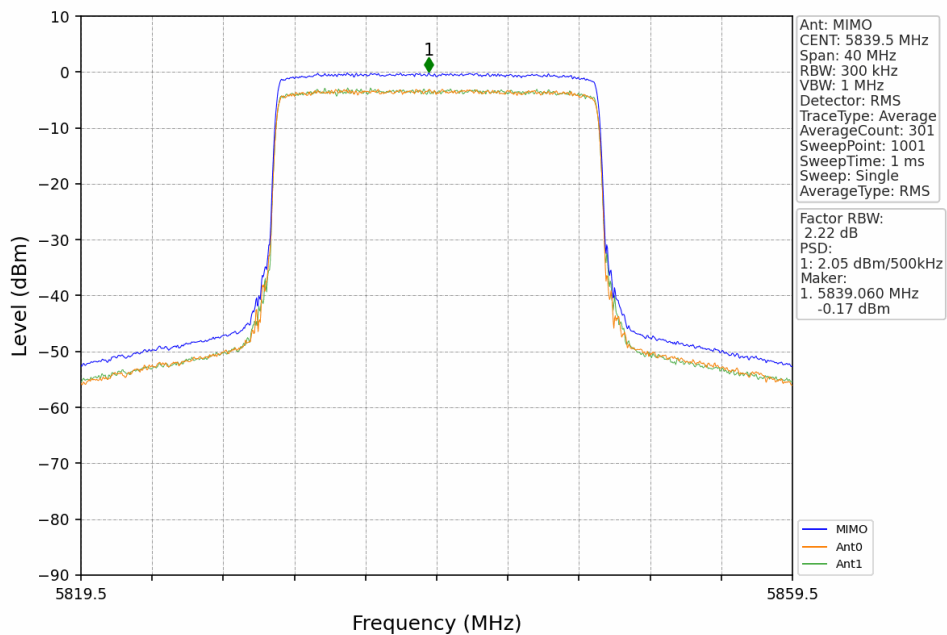
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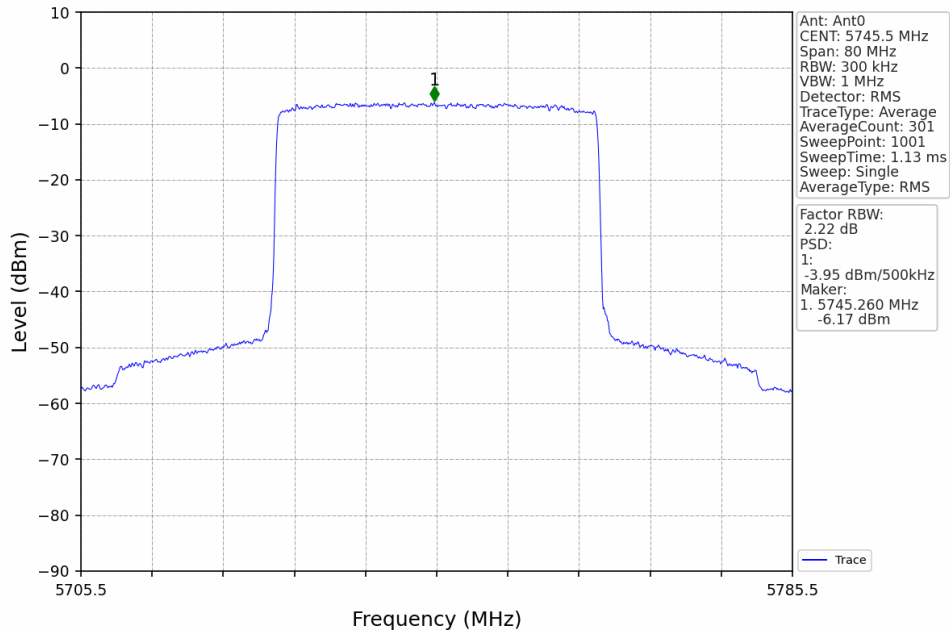
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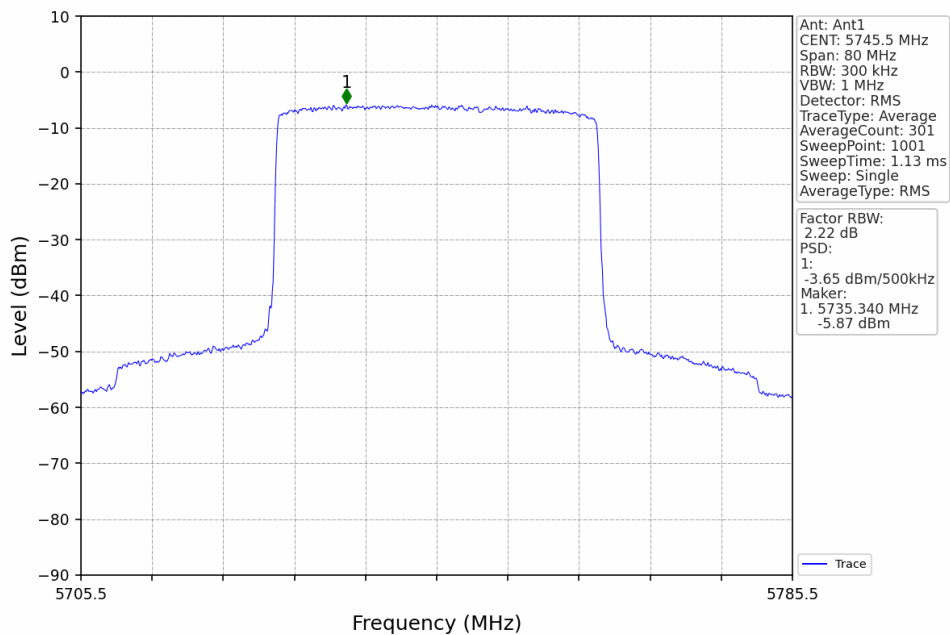
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40M_LCH_5745.5MHz_Ant0_NTNV



40M_LCH_5745.5MHz_Ant1_NTNV



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