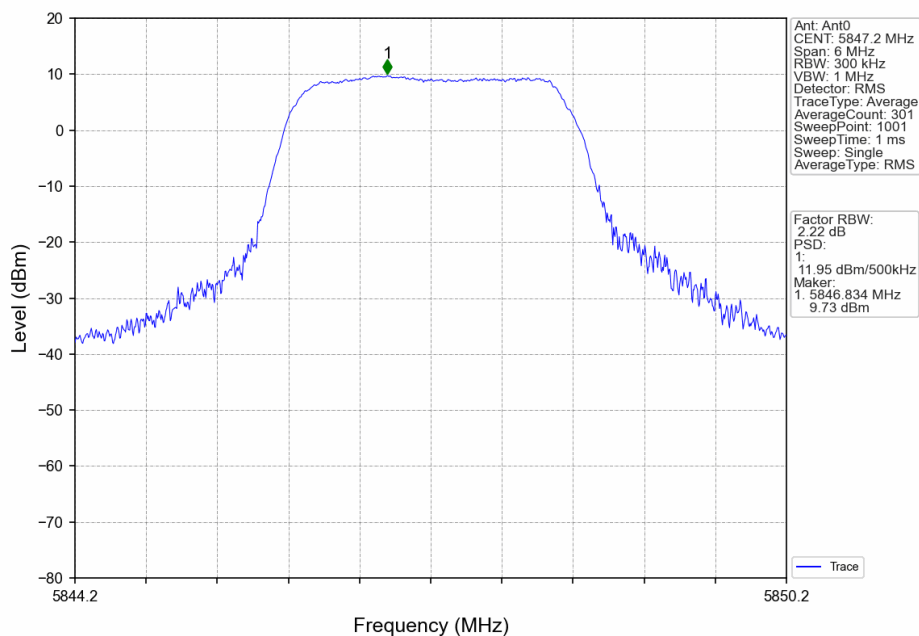
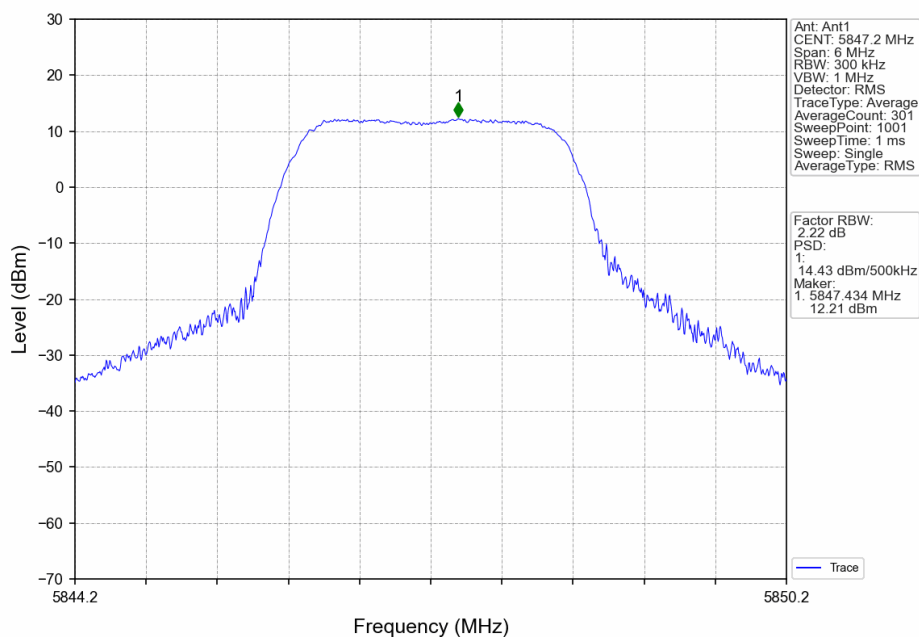


3M_HCH_5847.2MHz_Ant0_NTNV



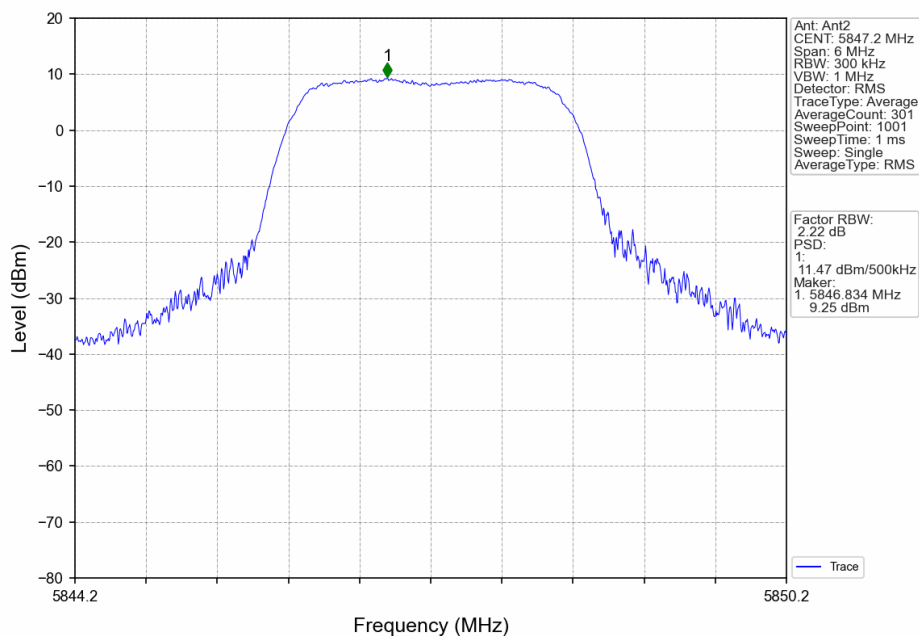
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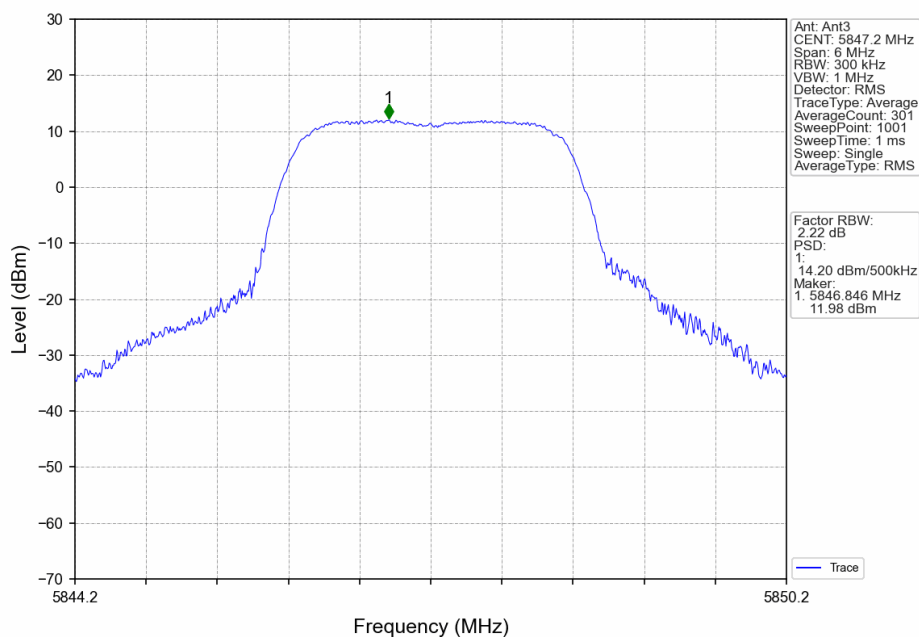
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3M_HCH_5847.2MHz_Ant2_NTNV



3M_HCH_5847.2MHz_Ant3_NTNV



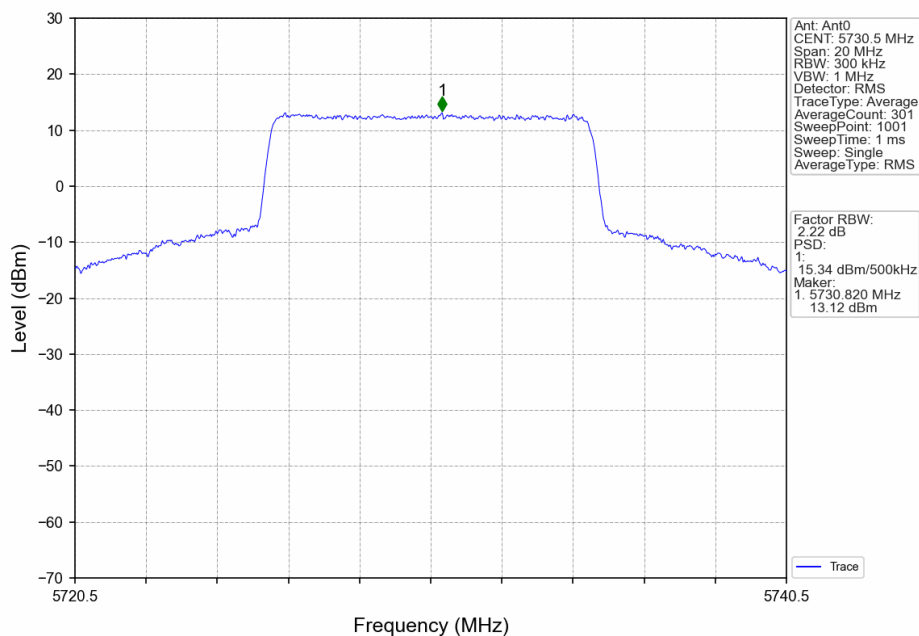
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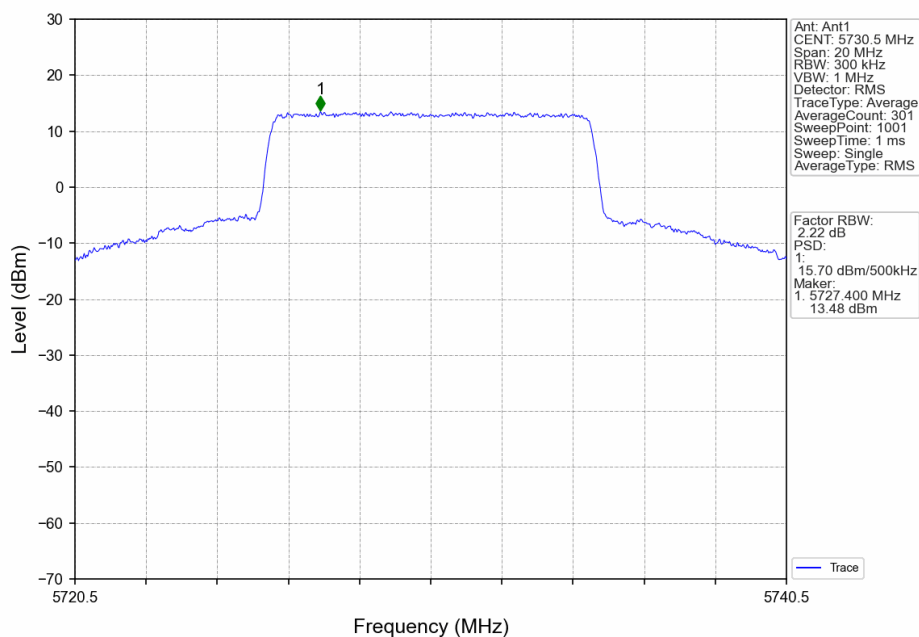
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10M_LCH_5730.5MHz_Ant0_NTNV



10M_LCH_5730.5MHz_Ant1_NTNV



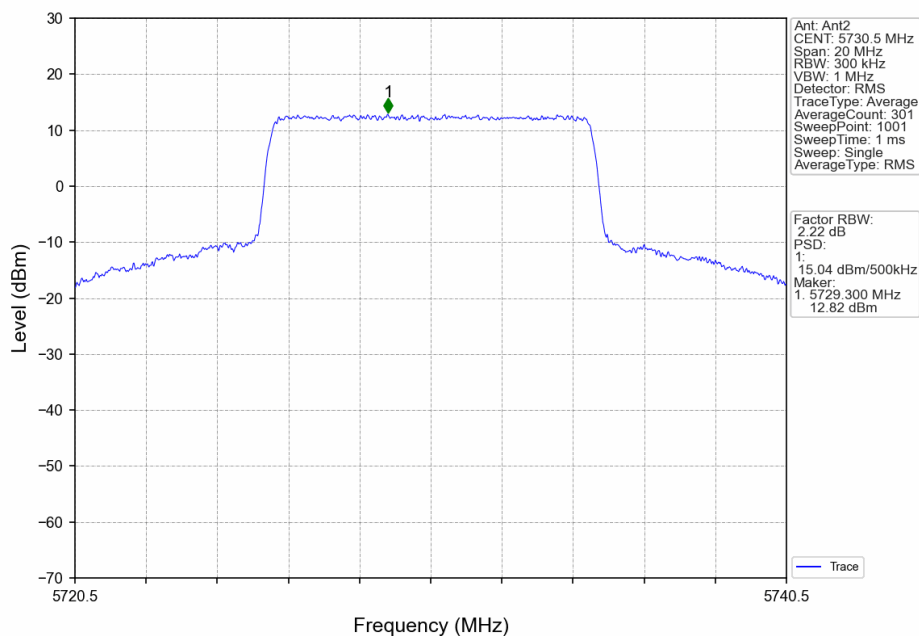
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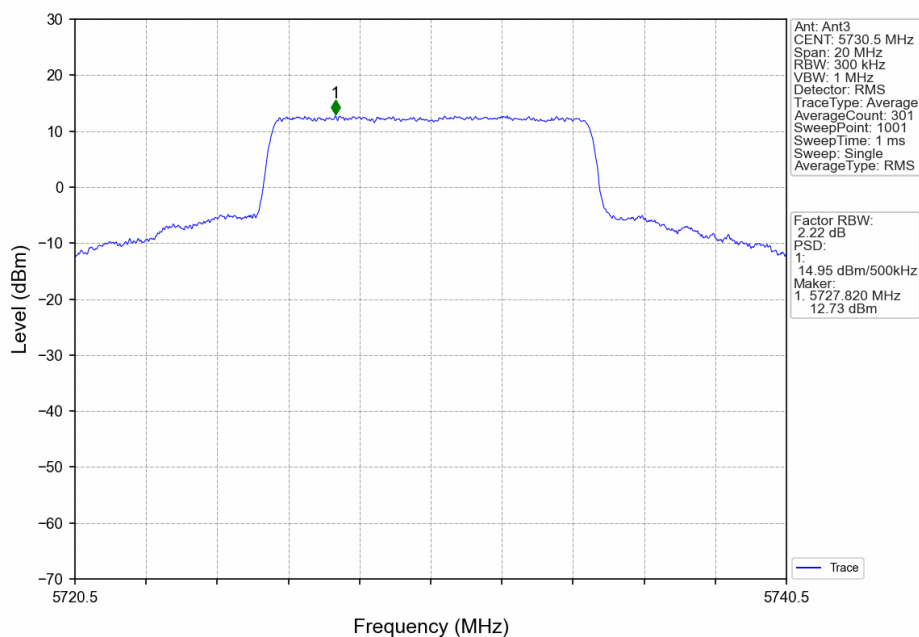
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10M_LCH_5730.5MHz_Ant2_NTNV



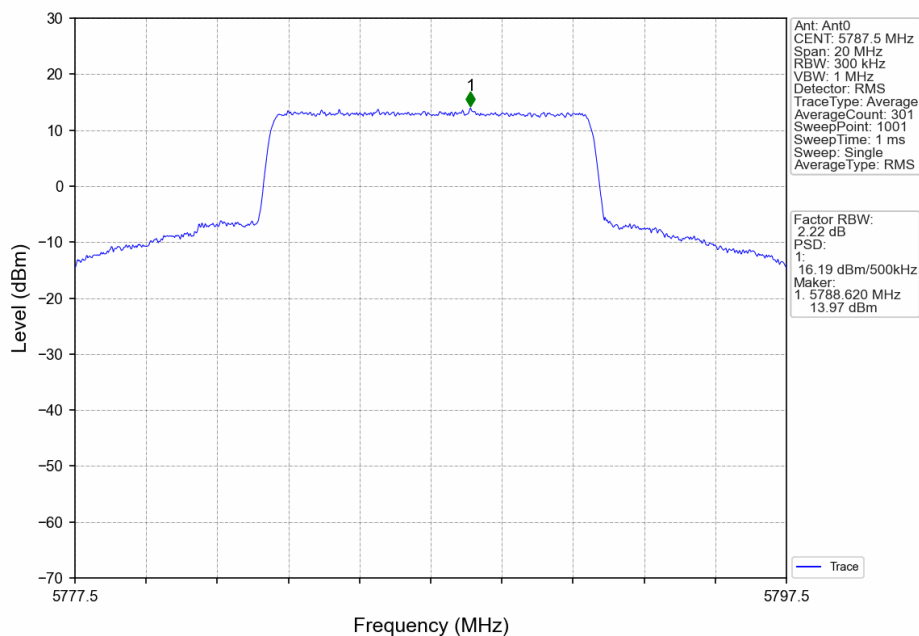
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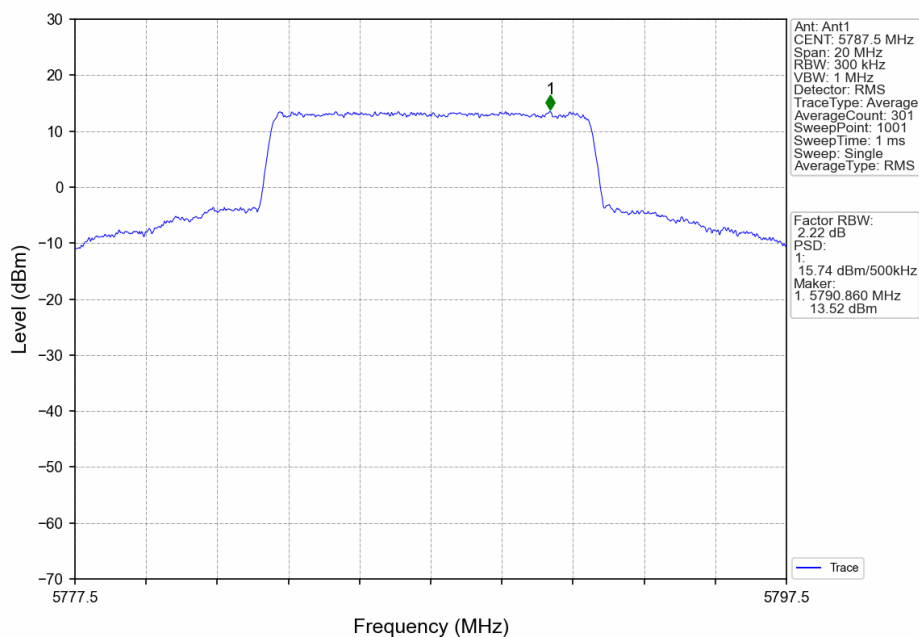
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10M_MCH_5787.5MHz_Ant0_NTNV



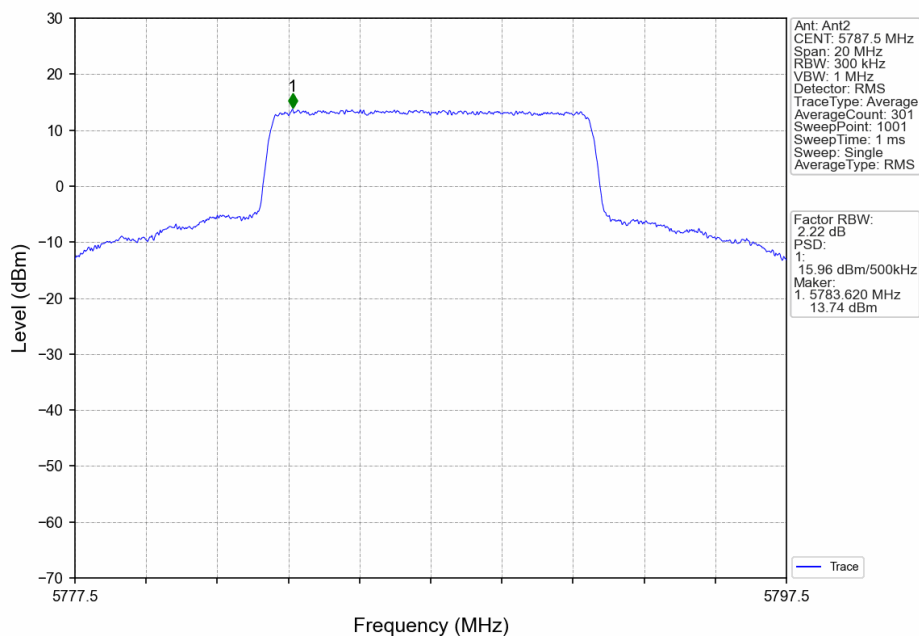
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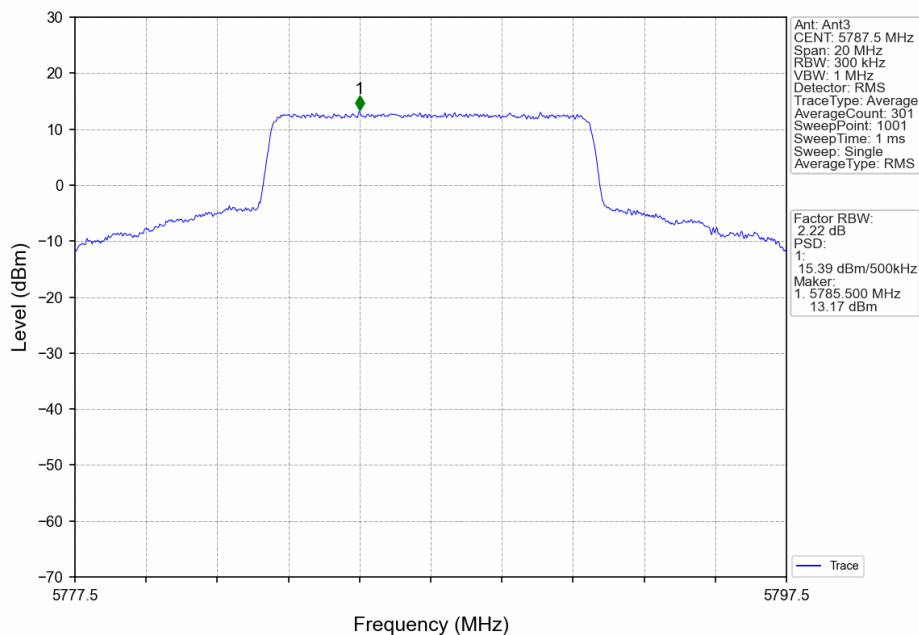
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10M_MCH_5787.5MHz_Ant2_NTNV



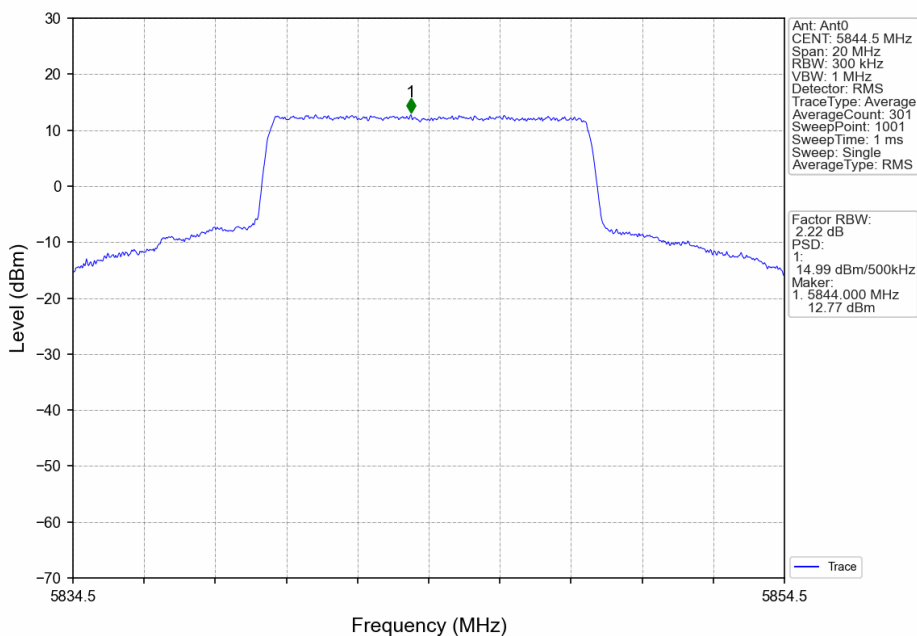
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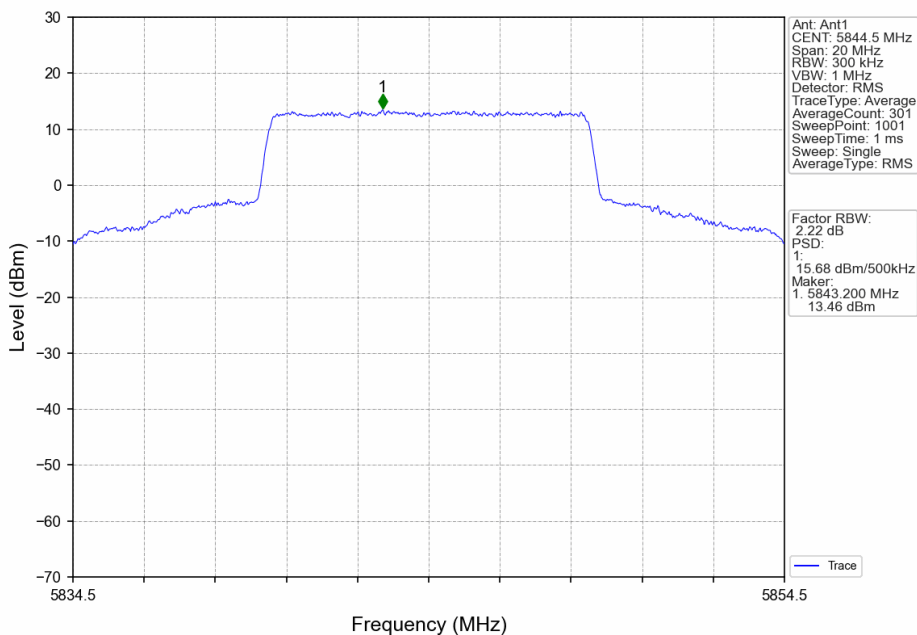
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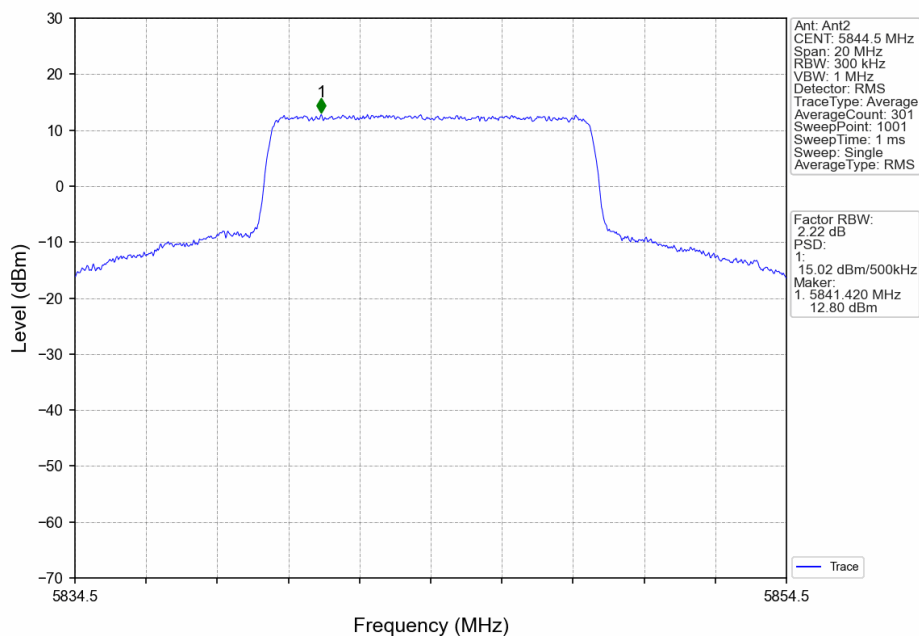
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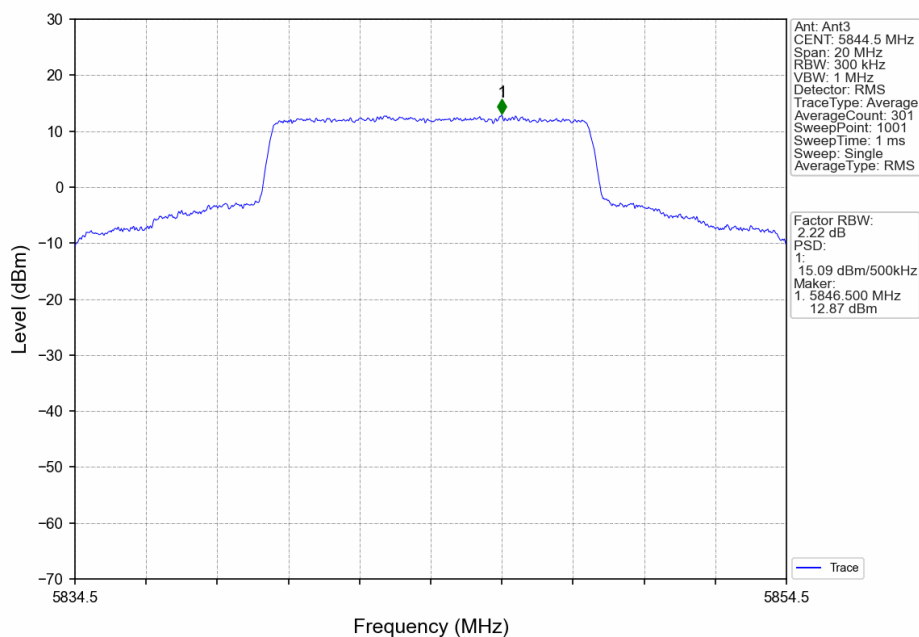
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10M_HCH_5844.5MHz_Ant2_NTNV



10M_HCH_5844.5MHz_Ant3_NTNV



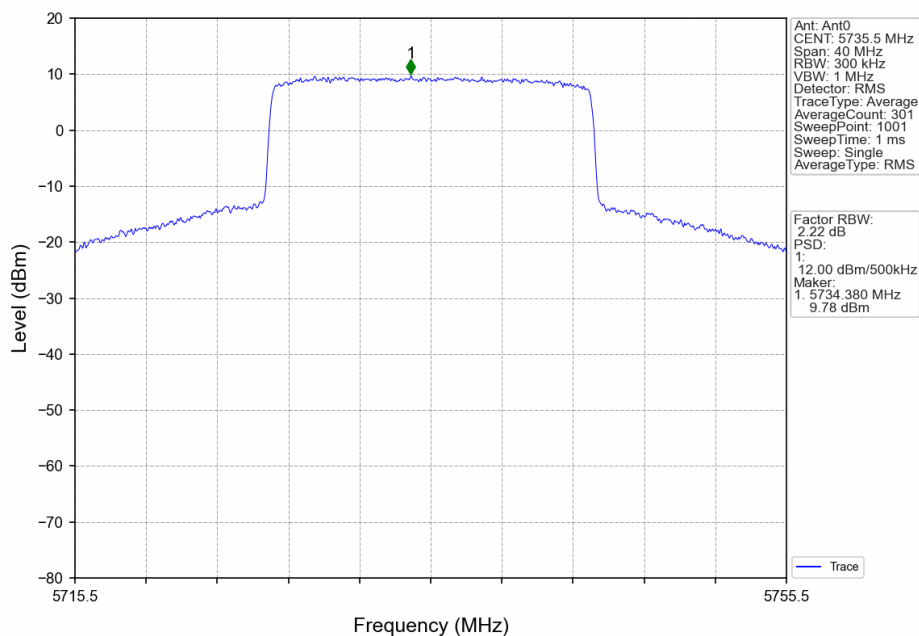
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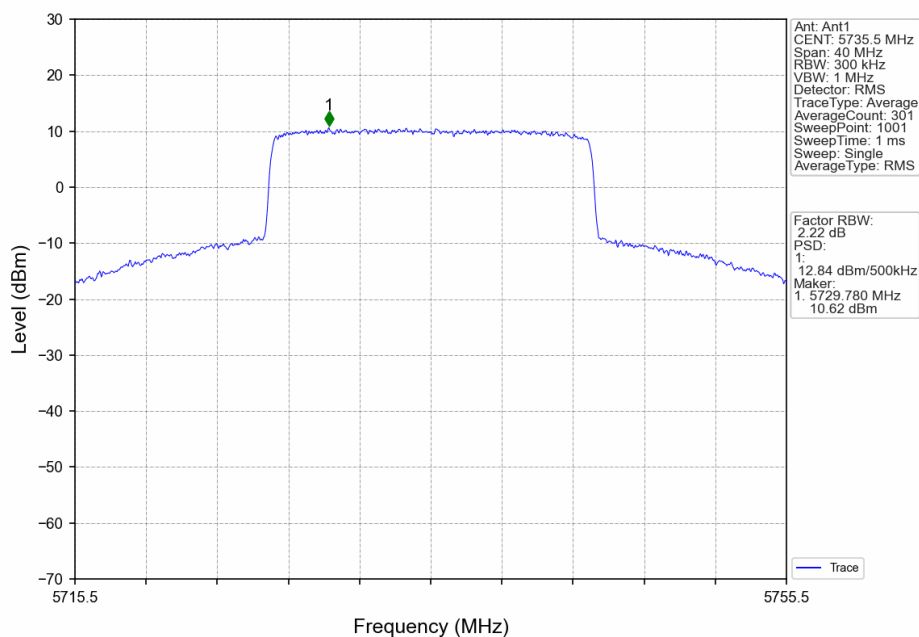
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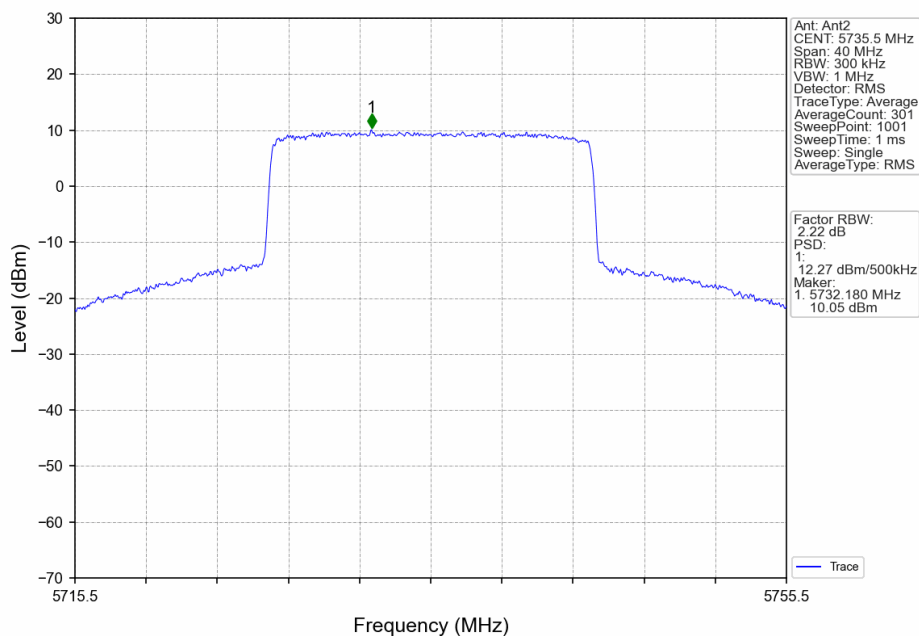
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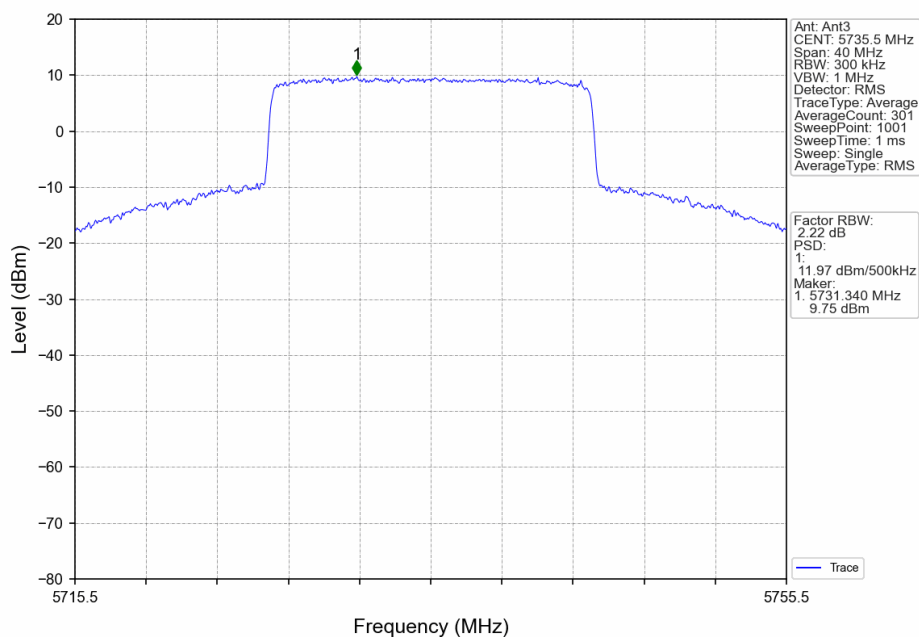
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20M_LCH_5735.5MHz_Ant2_NTNV



20M_LCH_5735.5MHz_Ant3_NTNV



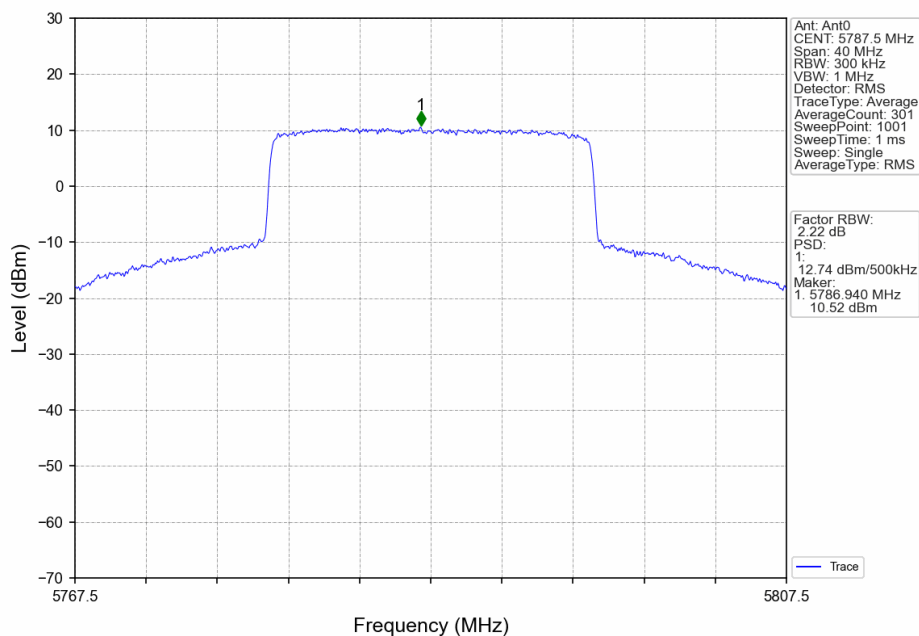
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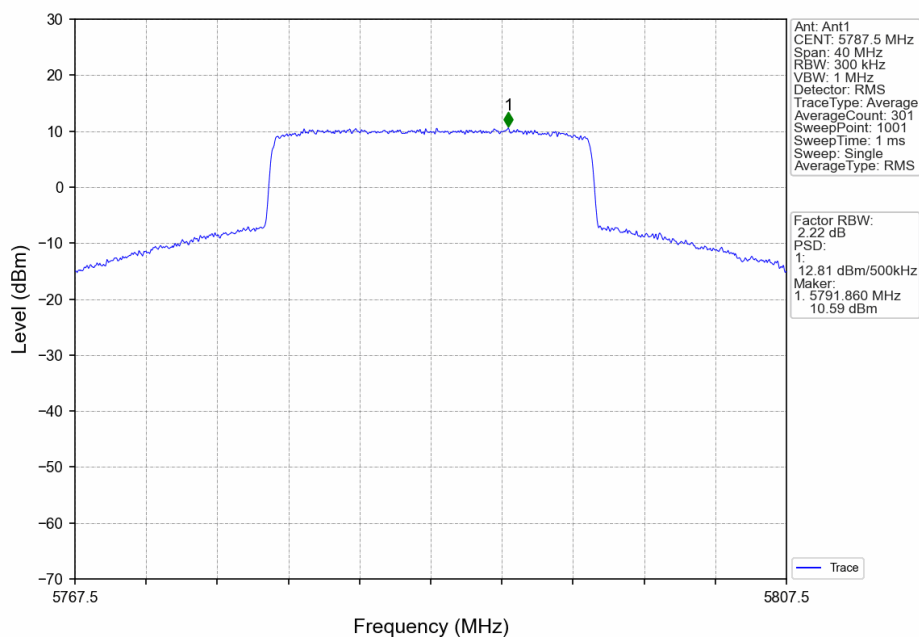
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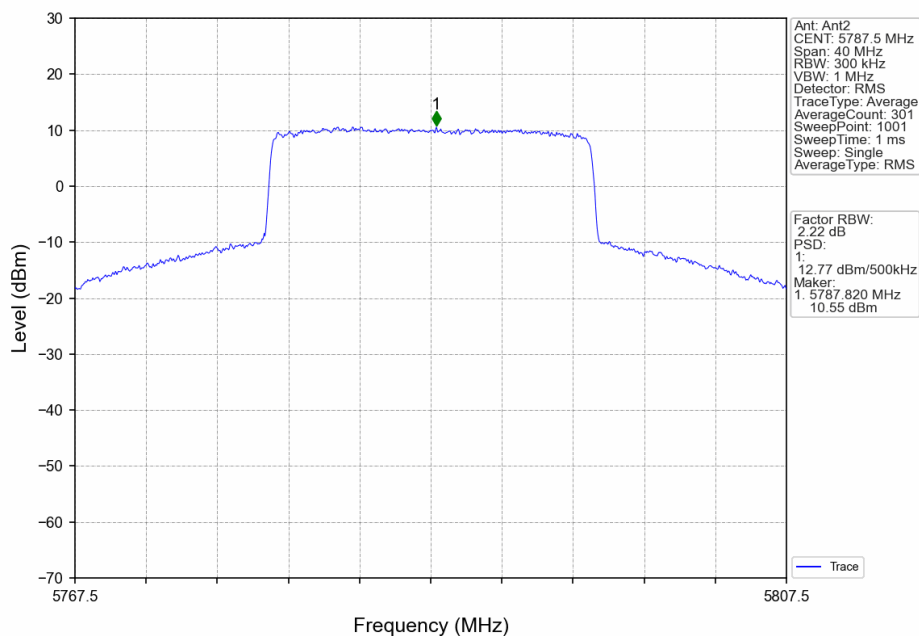
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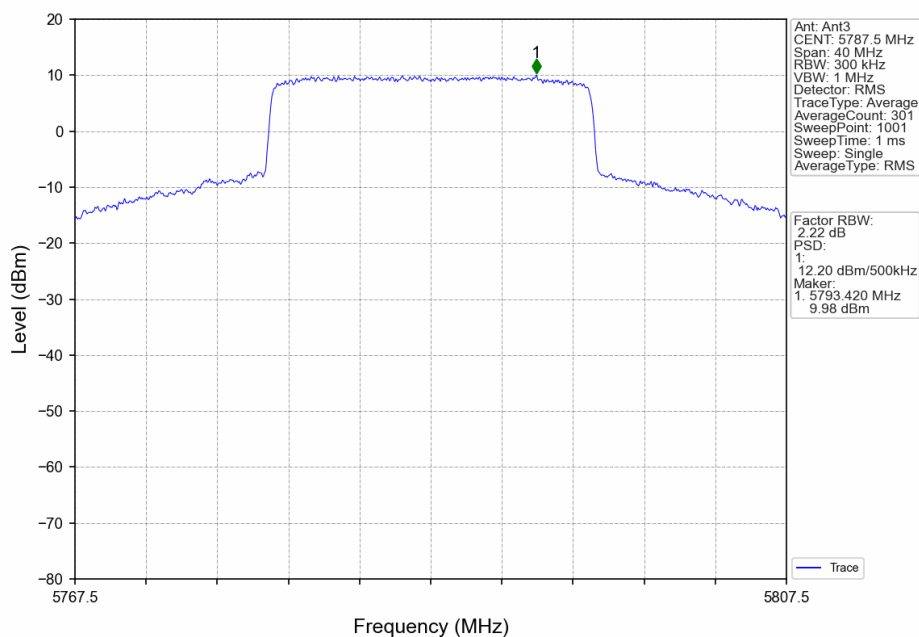
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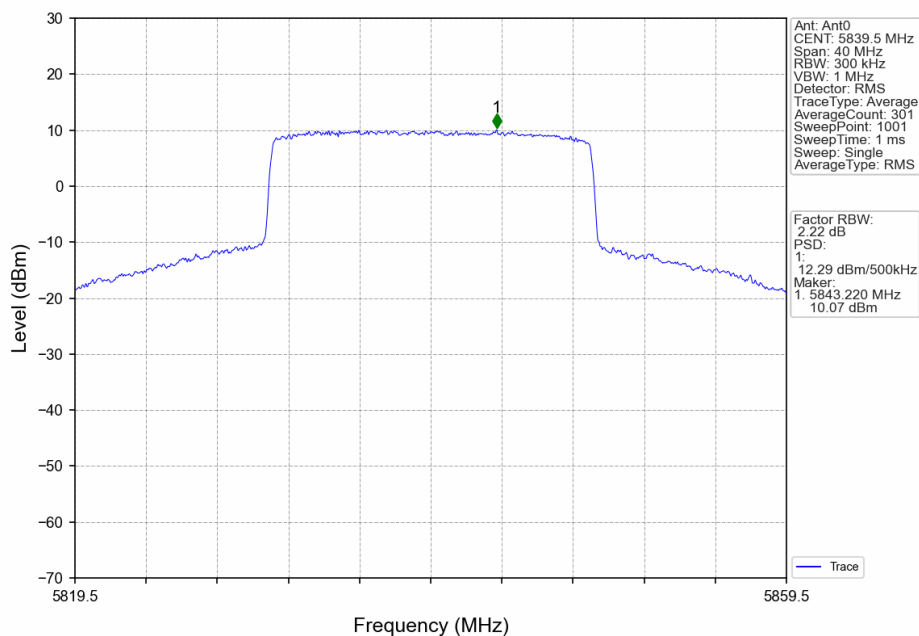
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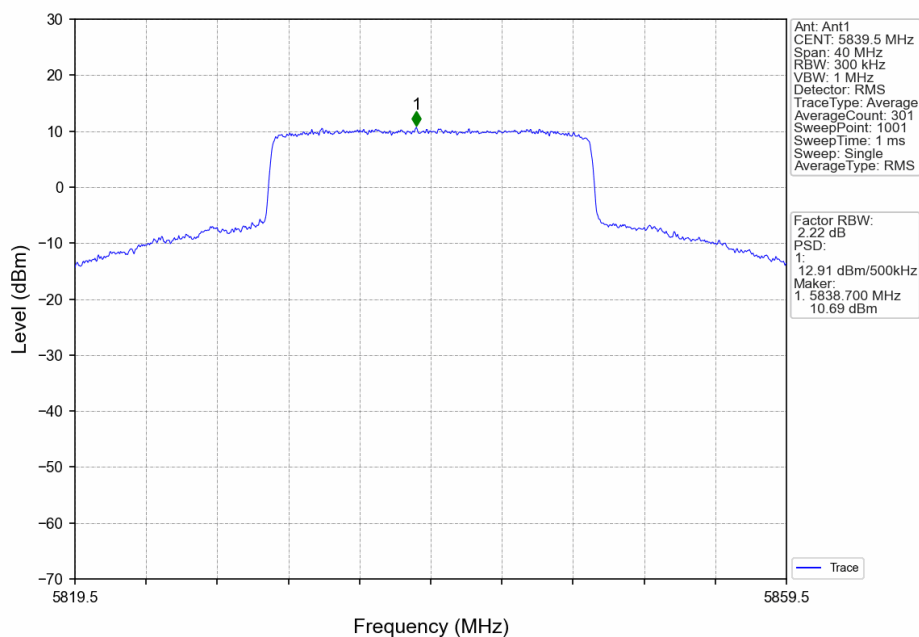
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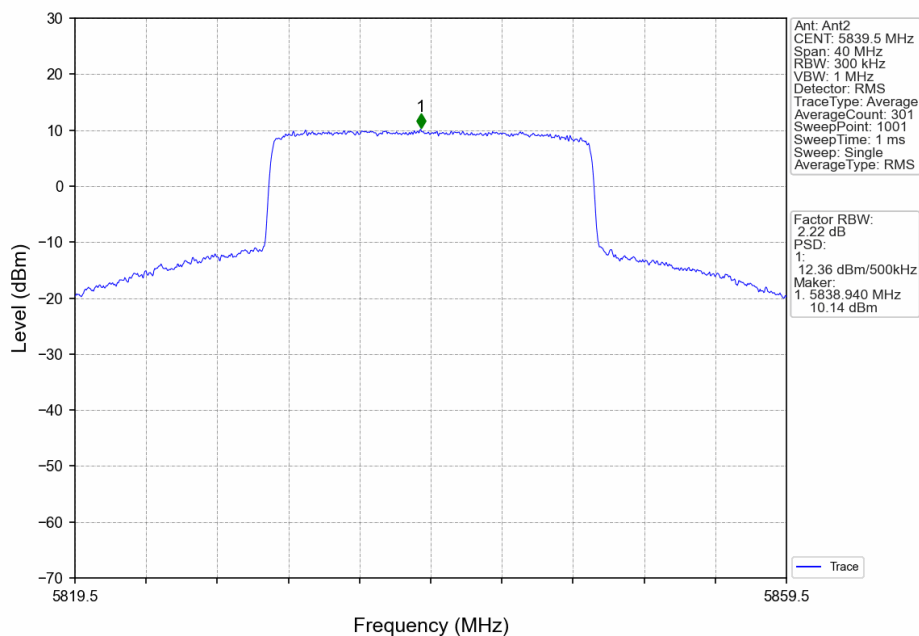
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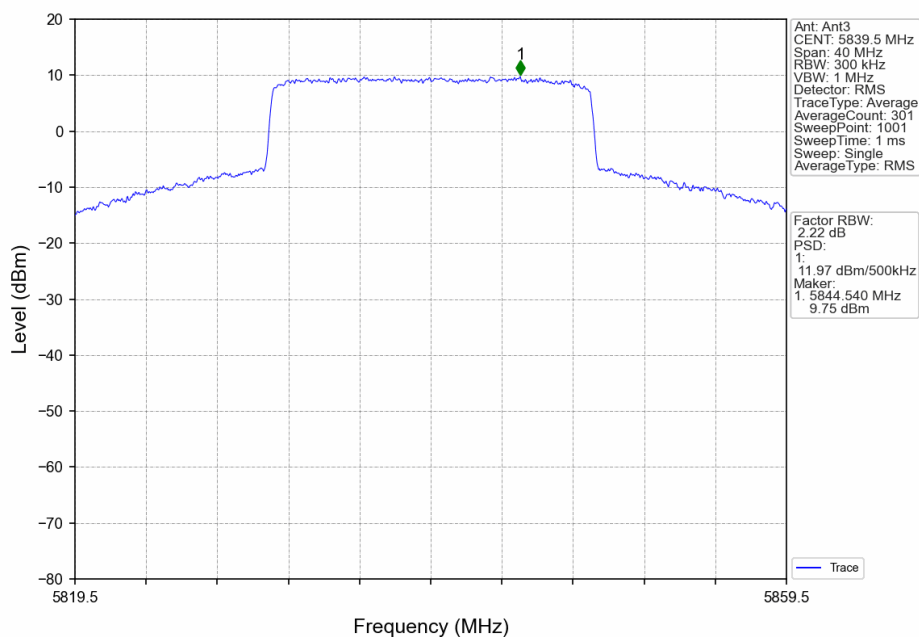
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20M_HCH_5839.5MHz_Ant2_NTNV



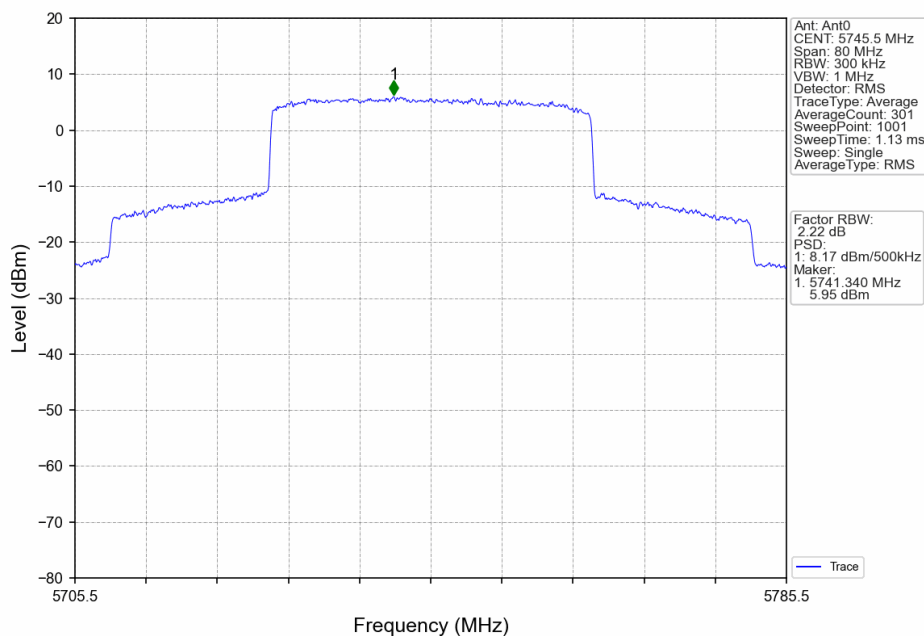
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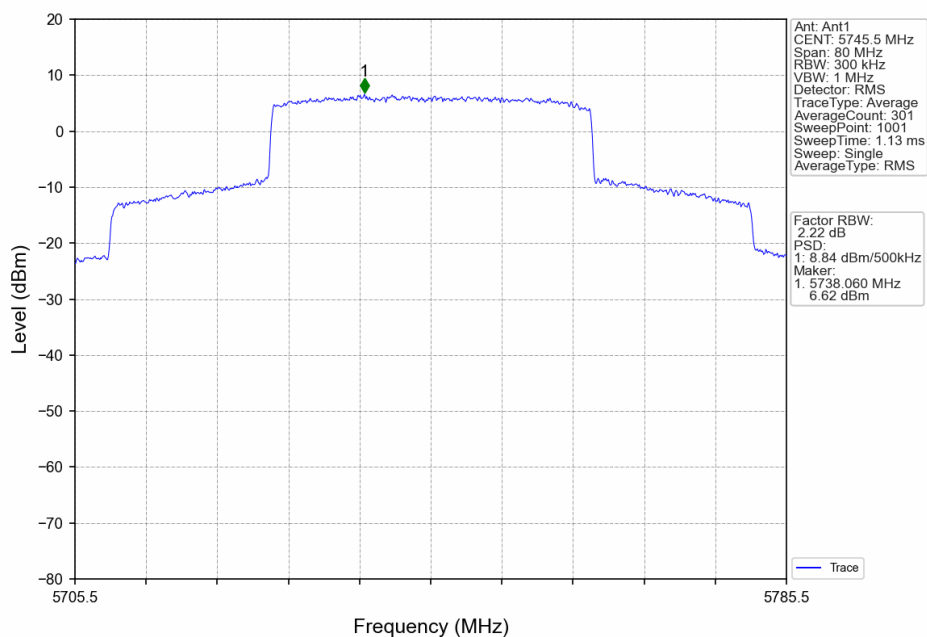
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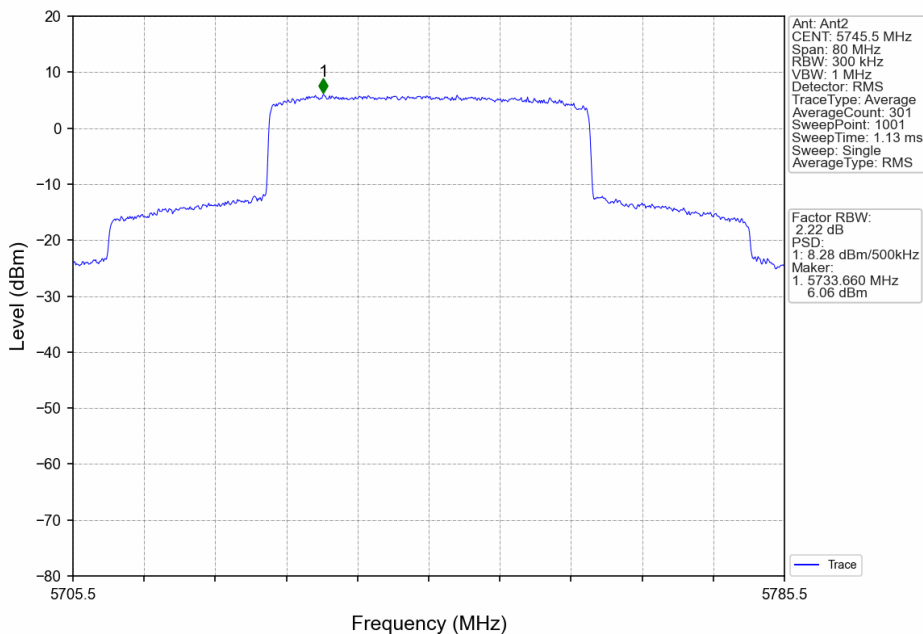
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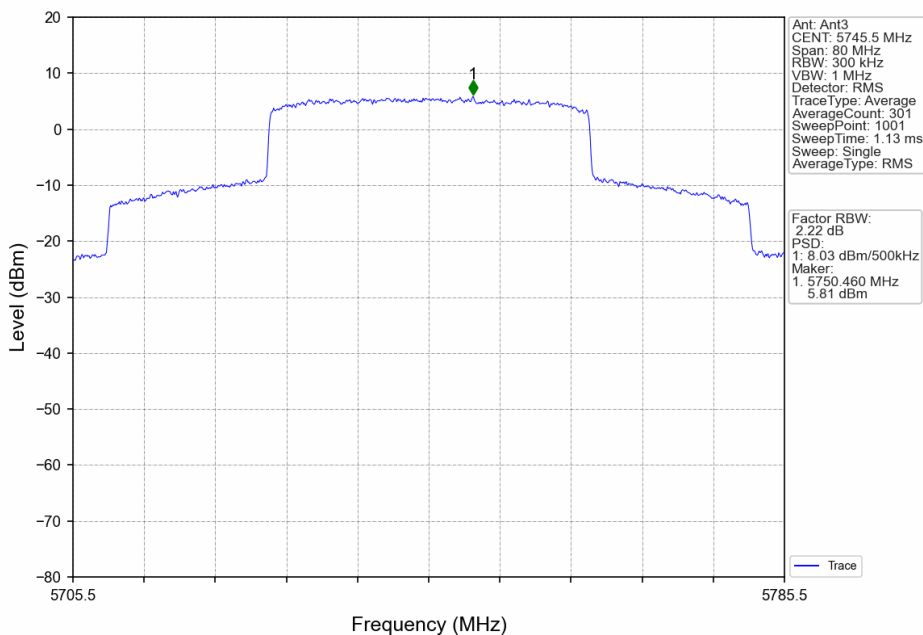
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40M_LCH_5745.5MHz_Ant2_NTNV



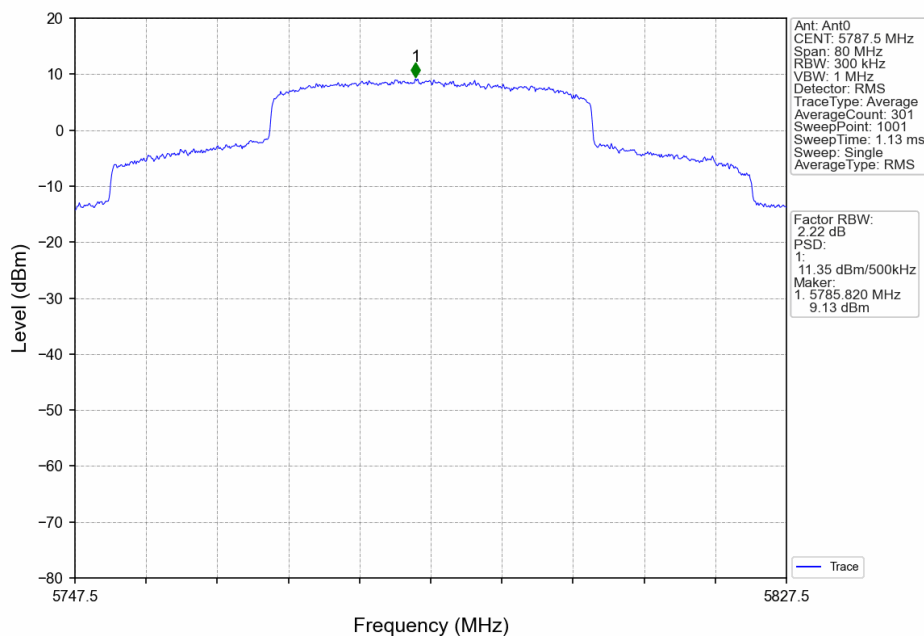
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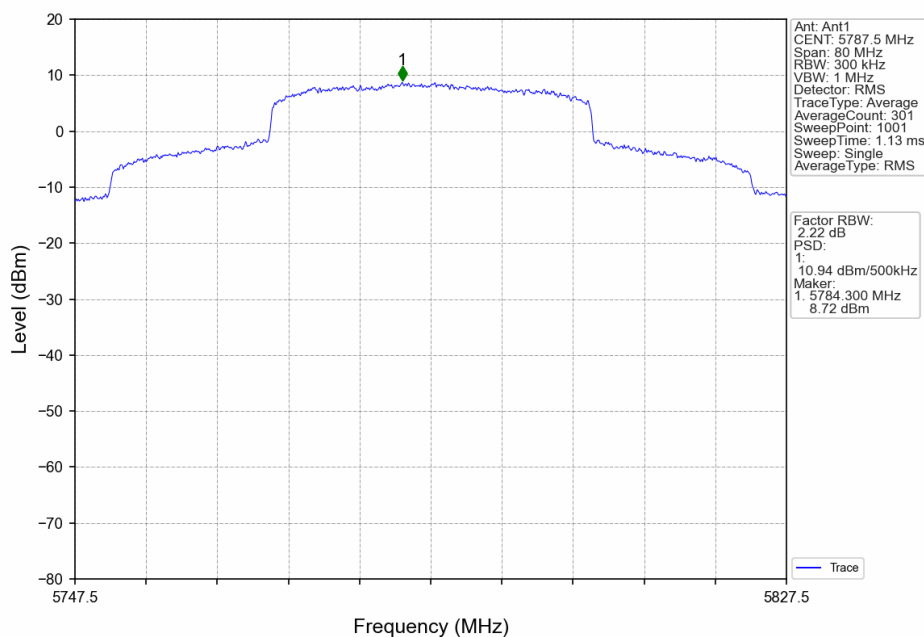
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40M_MCH_5787.5MHz_Ant1_NTNV



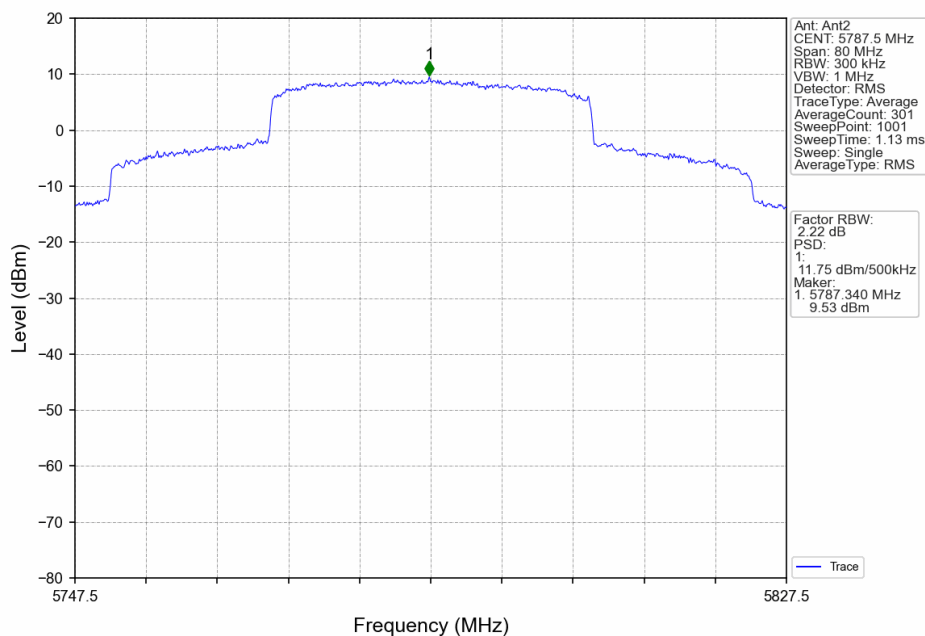
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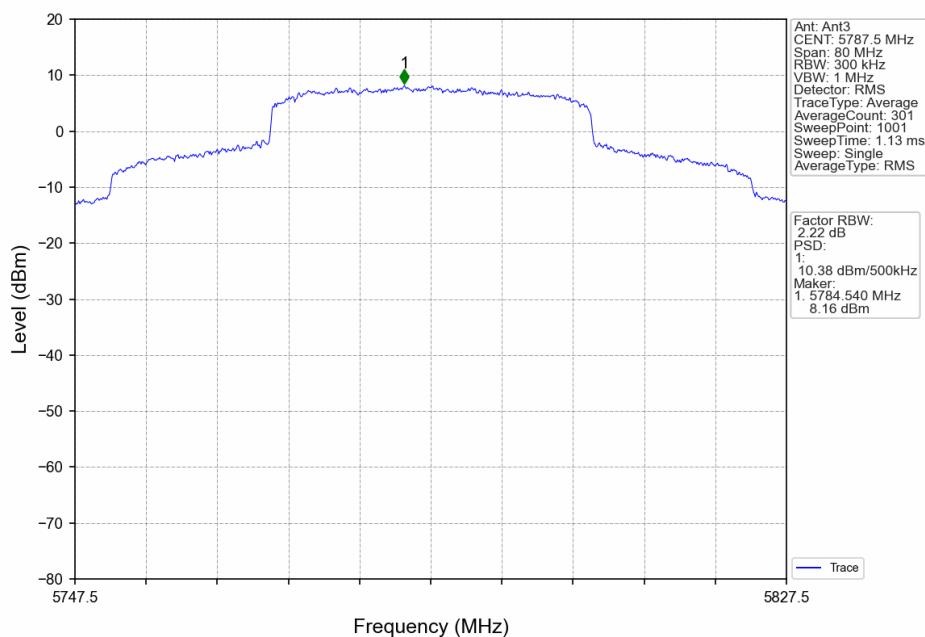
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40M_MCH_5787.5MHz_Ant2_NTNV



40M_MCH_5787.5MHz_Ant3_NTNV



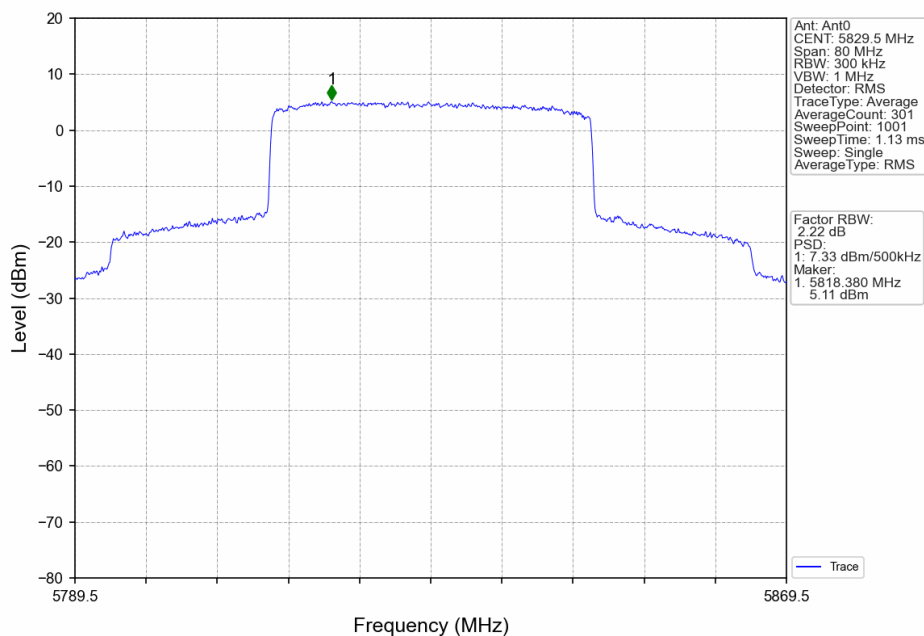
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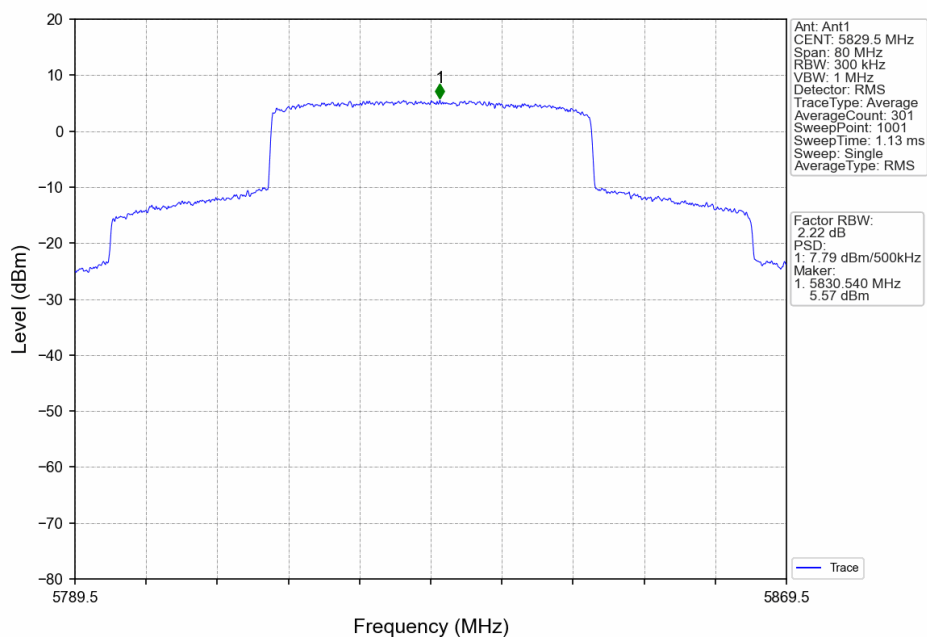
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40M_HCH_5829.5MHz_Ant0_NTNV



40M_HCH_5829.5MHz_Ant1_NTNV



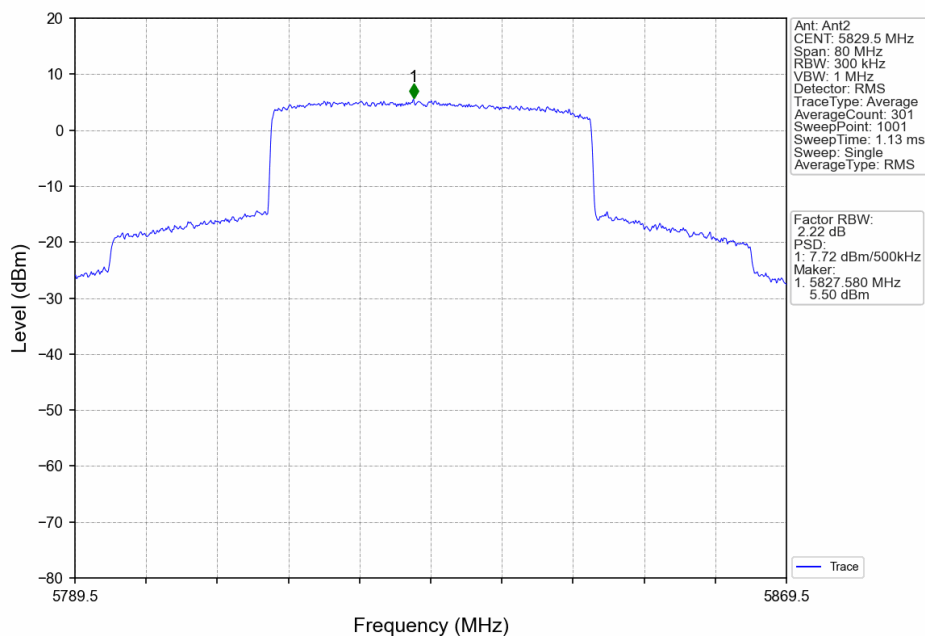
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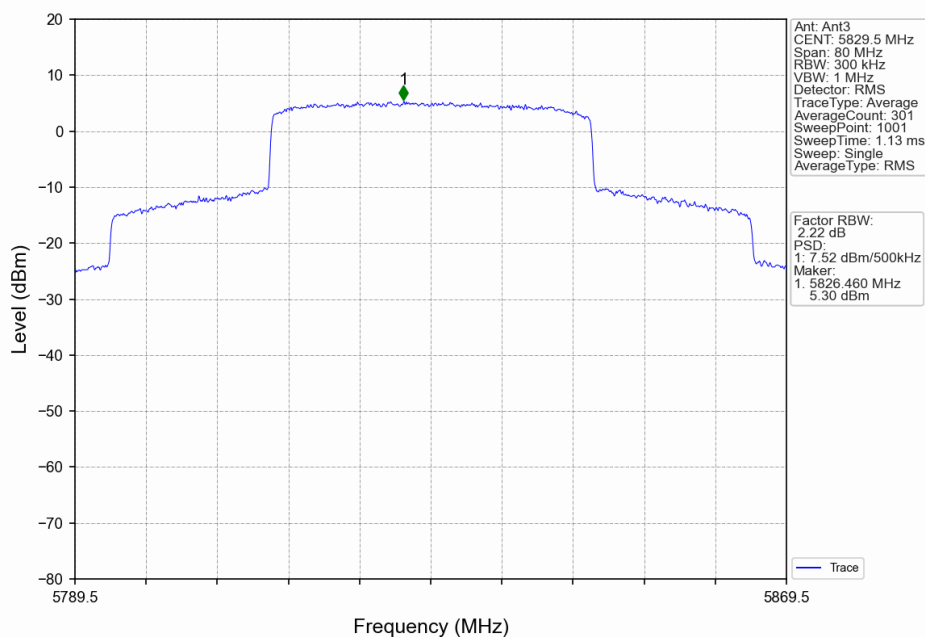
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40M_HCH_5829.5MHz_Ant2_NTNV



40M_HCH_5829.5MHz_Ant3_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	44.387	5728.549	5725 to 5850	Pass
				52.220	5728.545	5725 to 5850	Pass
				60.053	5728.548	5725 to 5850	Pass
			0	52.220	5728.546	5725 to 5850	Pass
				52.220	5728.549	5725 to 5850	Pass
			5	52.220	5728.550	5725 to 5850	Pass
			10	52.220	5728.546	5725 to 5850	Pass
			15	52.220	5728.546	5725 to 5850	Pass
			20	52.220	5728.546	5725 to 5850	Pass
		5788.5	-20	44.387	5788.548	5725 to 5850	Pass
				52.220	5788.548	5725 to 5850	Pass
				60.053	5788.549	5725 to 5850	Pass
			0	52.220	5788.547	5725 to 5850	Pass
				52.220	5788.548	5725 to 5850	Pass
			5	52.220	5788.549	5725 to 5850	Pass
			10	52.220	5788.542	5725 to 5850	Pass
			15	52.220	5788.549	5725 to 5850	Pass
			20	52.220	5788.545	5725 to 5850	Pass
		5848.12	-20	44.387	5848.172	5725 to 5850	Pass
				52.220	5848.168	5725 to 5850	Pass
				60.053	5848.168	5725 to 5850	Pass
			0	52.220	5848.165	5725 to 5850	Pass
				52.220	5848.168	5725 to 5850	Pass
			5	52.220	5848.167	5725 to 5850	Pass
			10	52.220	5848.165	5725 to 5850	Pass
			15	52.220	5848.171	5725 to 5850	Pass
			20	52.220	5848.171	5725 to 5850	Pass



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			30	52.220	5848.171	5725 to 5850	Pass		
			40	52.220	5848.167	5725 to 5850	Pass		
			45	52.220	5848.171	5725 to 5850	Pass		
3M	SISO	5727.5	-20	44.387	5727.518	5725 to 5850	Pass		
				52.220	5727.506	5725 to 5850	Pass		
				60.053	5727.500	5725 to 5850	Pass		
			0	52.220	5727.512	5725 to 5850	Pass		
			5	52.220	5727.497	5725 to 5850	Pass		
			10	52.220	5727.497	5725 to 5850	Pass		
			15	52.220	5727.518	5725 to 5850	Pass		
			20	52.220	5727.512	5725 to 5850	Pass		
			30	52.220	5727.518	5725 to 5850	Pass		
			40	52.220	5727.506	5725 to 5850	Pass		
			45	52.220	5727.500	5725 to 5850	Pass		
			5787.5	-20	44.387	5787.506	5725 to 5850	Pass	
					52.220	5787.500	5725 to 5850	Pass	
		60.053			5787.500	5725 to 5850	Pass		
		0		52.220	5787.497	5725 to 5850	Pass		
		5		52.220	5787.518	5725 to 5850	Pass		
		10		52.220	5787.497	5725 to 5850	Pass		
		15		52.220	5787.518	5725 to 5850	Pass		
		20		52.220	5787.518	5725 to 5850	Pass		
		30		52.220	5787.518	5725 to 5850	Pass		
		40		52.220	5787.503	5725 to 5850	Pass		
		45		52.220	5787.506	5725 to 5850	Pass		
		5847.2	-20	44.387	5847.221	5725 to 5850	Pass		
				52.220	5847.209	5725 to 5850	Pass		
				60.053	5847.212	5725 to 5850	Pass		
			0	52.220	5847.203	5725 to 5850	Pass		
			5	52.220	5847.200	5725 to 5850	Pass		
			10	52.220	5847.200	5725 to 5850	Pass		
			15	52.220	5847.203	5725 to 5850	Pass		
			20	52.220	5847.218	5725 to 5850	Pass		
			30	52.220	5847.218	5725 to 5850	Pass		
			40	52.220	5847.209	5725 to 5850	Pass		
			45	52.220	5847.218	5725 to 5850	Pass		
		10M	SISO	5730.5	-20	44.387	5730.520	5725 to 5850	Pass
						52.220	5730.520	5725 to 5850	Pass
60.053	5730.530					5725 to 5850	Pass		
0	52.220				5730.520	5725 to 5850	Pass		



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			5	52.220	5730.490	5725 to 5850	Pass
			10	52.220	5730.530	5725 to 5850	Pass
			15	52.220	5730.520	5725 to 5850	Pass
			20	52.220	5730.490	5725 to 5850	Pass
			30	52.220	5730.500	5725 to 5850	Pass
			40	52.220	5730.540	5725 to 5850	Pass
			45	52.220	5730.540	5725 to 5850	Pass
		5787.5	-20	44.387	5787.530	5725 to 5850	Pass
				52.220	5787.520	5725 to 5850	Pass
				60.053	5787.520	5725 to 5850	Pass
			0	52.220	5787.520	5725 to 5850	Pass
			5	52.220	5787.510	5725 to 5850	Pass
			10	52.220	5787.430	5725 to 5850	Pass
			15	52.220	5787.520	5725 to 5850	Pass
			20	52.220	5787.530	5725 to 5850	Pass
			30	52.220	5787.470	5725 to 5850	Pass
			40	52.220	5787.530	5725 to 5850	Pass
			45	52.220	5787.520	5725 to 5850	Pass
		5844.5	-20	44.387	5844.520	5725 to 5850	Pass
				52.220	5844.530	5725 to 5850	Pass
				60.053	5844.520	5725 to 5850	Pass
			0	52.220	5844.550	5725 to 5850	Pass
			5	52.220	5844.540	5725 to 5850	Pass
			10	52.220	5844.520	5725 to 5850	Pass
			15	52.220	5844.600	5725 to 5850	Pass
			20	52.220	5844.560	5725 to 5850	Pass
			30	52.220	5844.470	5725 to 5850	Pass
			40	52.220	5844.490	5725 to 5850	Pass
			45	52.220	5844.560	5725 to 5850	Pass
		5735.5	-20	44.387	5735.540	5725 to 5850	Pass
				52.220	5735.400	5725 to 5850	Pass
				60.053	5735.420	5725 to 5850	Pass
			0	52.220	5735.480	5725 to 5850	Pass
			5	52.220	5735.480	5725 to 5850	Pass
			10	52.220	5735.500	5725 to 5850	Pass
			15	52.220	5735.360	5725 to 5850	Pass
			20	52.220	5735.520	5725 to 5850	Pass
			30	52.220	5735.480	5725 to 5850	Pass
			40	52.220	5735.520	5725 to 5850	Pass
			45	52.220	5735.560	5725 to 5850	Pass



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		5787.5	-20	44.387	5787.280	5725 to 5850	Pass
				52.220	5787.560	5725 to 5850	Pass
				60.053	5787.540	5725 to 5850	Pass
			0	52.220	5787.560	5725 to 5850	Pass
			5	52.220	5787.580	5725 to 5850	Pass
			10	52.220	5787.520	5725 to 5850	Pass
			15	52.220	5787.460	5725 to 5850	Pass
			20	52.220	5787.620	5725 to 5850	Pass
			30	52.220	5787.500	5725 to 5850	Pass
			40	52.220	5787.520	5725 to 5850	Pass
			45	52.220	5787.340	5725 to 5850	Pass
		5839.5	-20	44.387	5839.640	5725 to 5850	Pass
				52.220	5839.400	5725 to 5850	Pass
				60.053	5839.340	5725 to 5850	Pass
			0	52.220	5839.320	5725 to 5850	Pass
			5	52.220	5839.460	5725 to 5850	Pass
			10	52.220	5839.520	5725 to 5850	Pass
			15	52.220	5839.440	5725 to 5850	Pass
			20	52.220	5839.440	5725 to 5850	Pass
			30	52.220	5839.560	5725 to 5850	Pass
			40	52.220	5839.540	5725 to 5850	Pass
			45	52.220	5839.540	5725 to 5850	Pass
40M	SISO	5745.5	-20	44.387	5745.460	5725 to 5850	Pass
				52.220	5745.540	5725 to 5850	Pass
				60.053	5745.580	5725 to 5850	Pass
			0	52.220	5745.500	5725 to 5850	Pass
			5	52.220	5745.300	5725 to 5850	Pass
			10	52.220	5745.580	5725 to 5850	Pass
			15	52.220	5745.540	5725 to 5850	Pass
			20	52.220	5745.700	5725 to 5850	Pass
			30	52.220	5745.020	5725 to 5850	Pass
			40	52.220	5745.540	5725 to 5850	Pass
			45	52.220	5745.580	5725 to 5850	Pass
		5787.5	-20	44.387	5786.940	5725 to 5850	Pass
				52.220	5787.420	5725 to 5850	Pass
				60.053	5786.420	5725 to 5850	Pass
			0	52.220	5787.820	5725 to 5850	Pass
			5	52.220	5787.980	5725 to 5850	Pass
			10	52.220	5787.540	5725 to 5850	Pass
			15	52.220	5787.780	5725 to 5850	Pass



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			20	52.220	5787.980	5725 to 5850	Pass
			30	52.220	5786.980	5725 to 5850	Pass
			40	52.220	5786.820	5725 to 5850	Pass
			45	52.220	5787.700	5725 to 5850	Pass
		5829.5	-20	44.387	5829.580	5725 to 5850	Pass
				52.220	5829.500	5725 to 5850	Pass
				60.053	5829.940	5725 to 5850	Pass
			0	52.220	5830.060	5725 to 5850	Pass
			5	52.220	5827.980	5725 to 5850	Pass
			10	52.220	5829.620	5725 to 5850	Pass
			15	52.220	5830.020	5725 to 5850	Pass
			20	52.220	5829.220	5725 to 5850	Pass
			30	52.220	5829.860	5725 to 5850	Pass
			40	52.220	5829.540	5725 to 5850	Pass
			45	52.220	5827.940	5725 to 5850	Pass



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MIMO Mode (EUT supports ANT0 combined ANT1, ANT0 combined ANT2, ANT2 combined ANT1, ANT2 combined ANT3, all combinations were pre-tested, ANT0 combined ANT1 was the worse-case, only the worse-case test data were recorded in this report)

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
		5788.5	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
		5787.5	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	19.914	20.000	99.57	0.02	0.00
		5787.5	19.913	20.000	99.57	0.02	0.02
		5839.5	19.914	19.997	99.58	0.02	0.00
40M	MIMO	5745.5	19.933	20.000	99.66	0.01	0.00
		5787.5	19.933	20.000	99.67	0.01	0.00
		5829.5	19.933	20.000	99.67	0.01	0.00



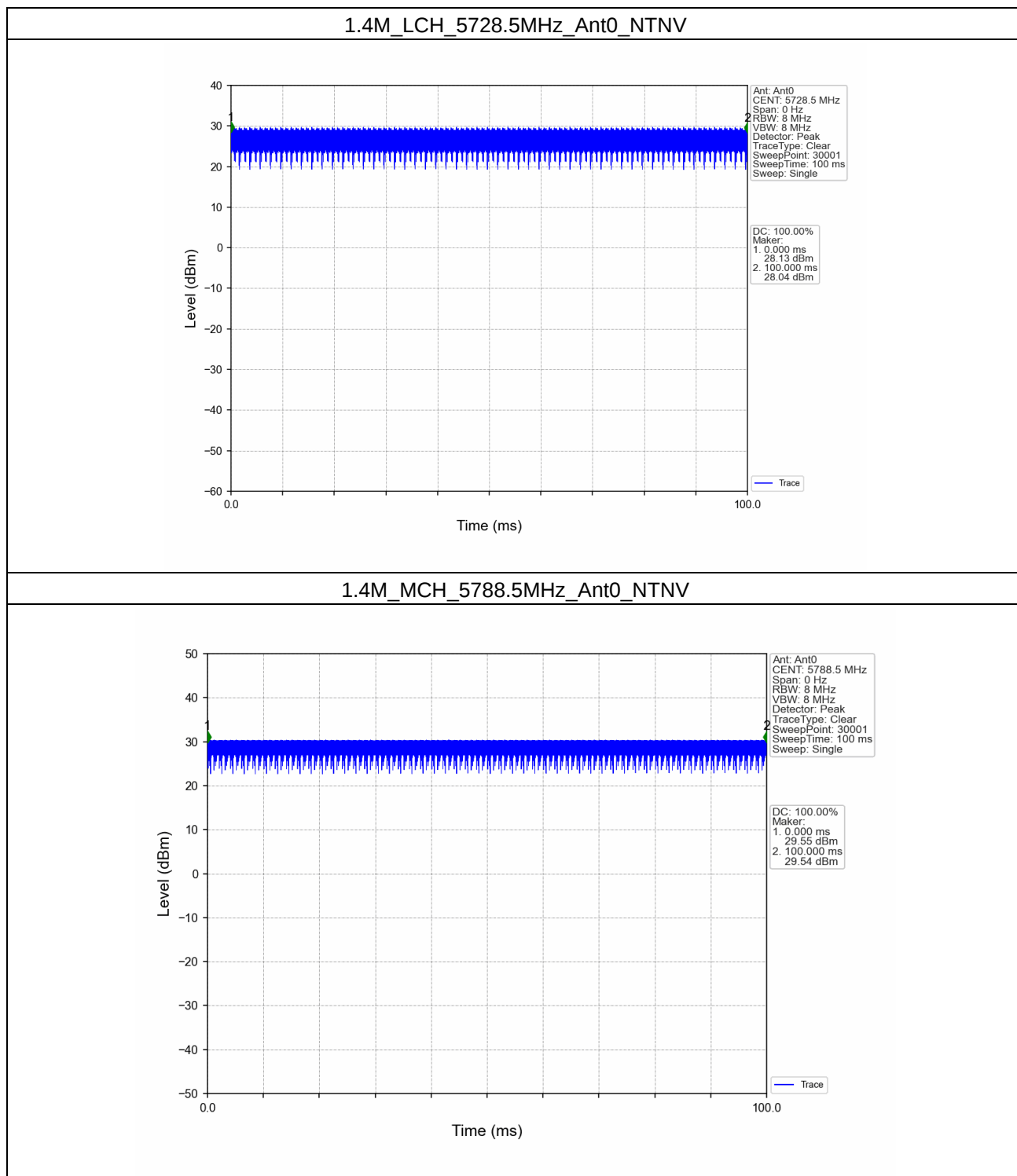
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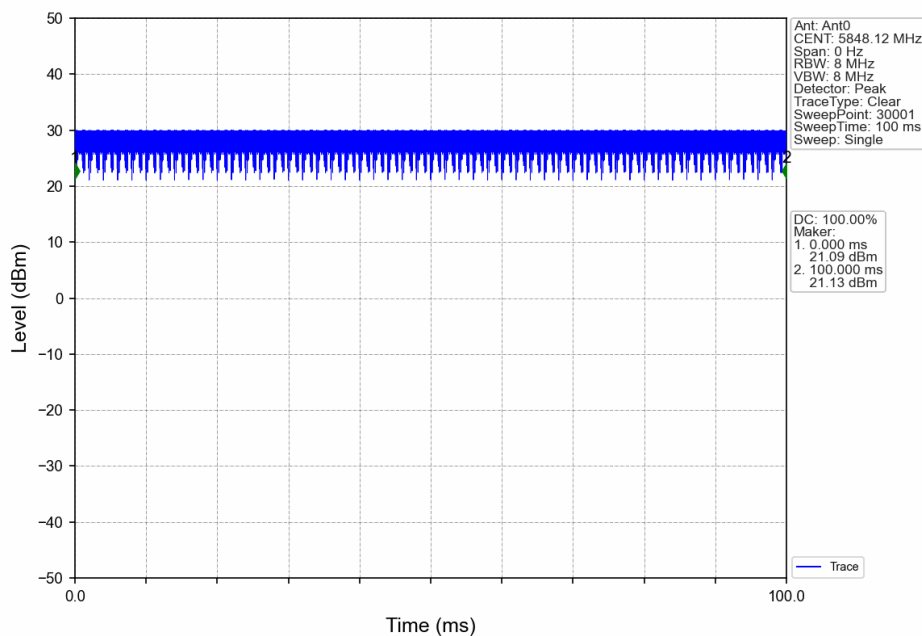
1.1.2 Test Graph



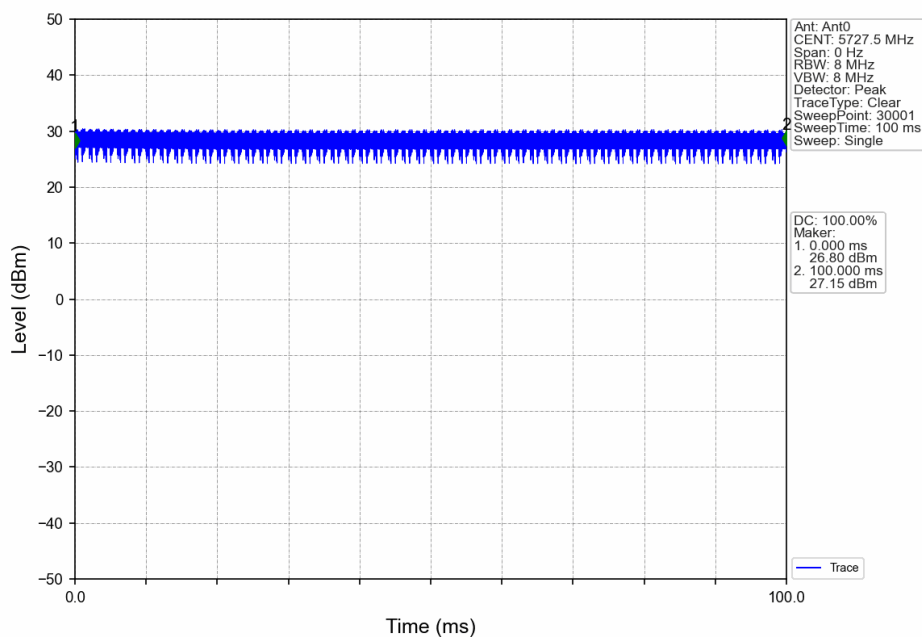
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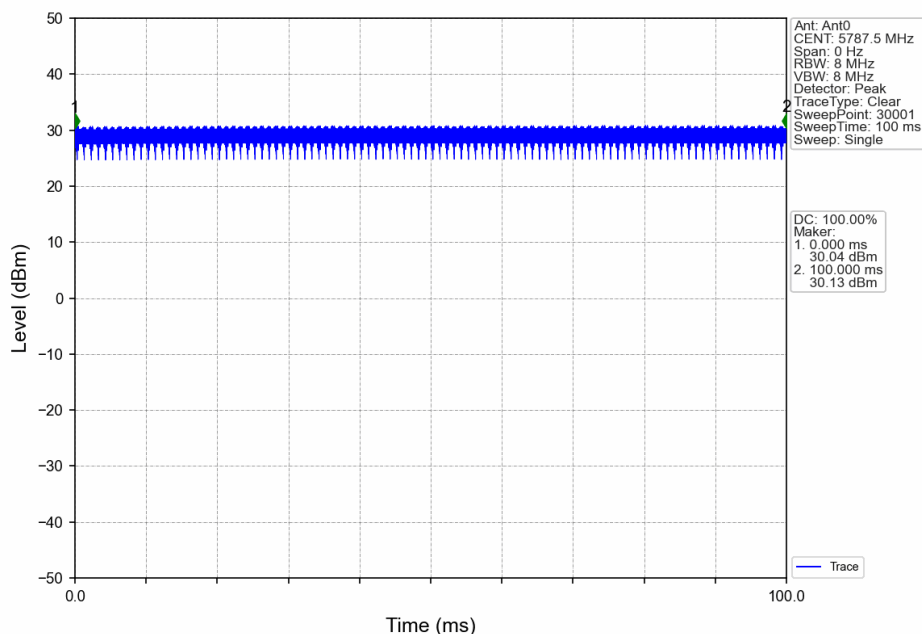
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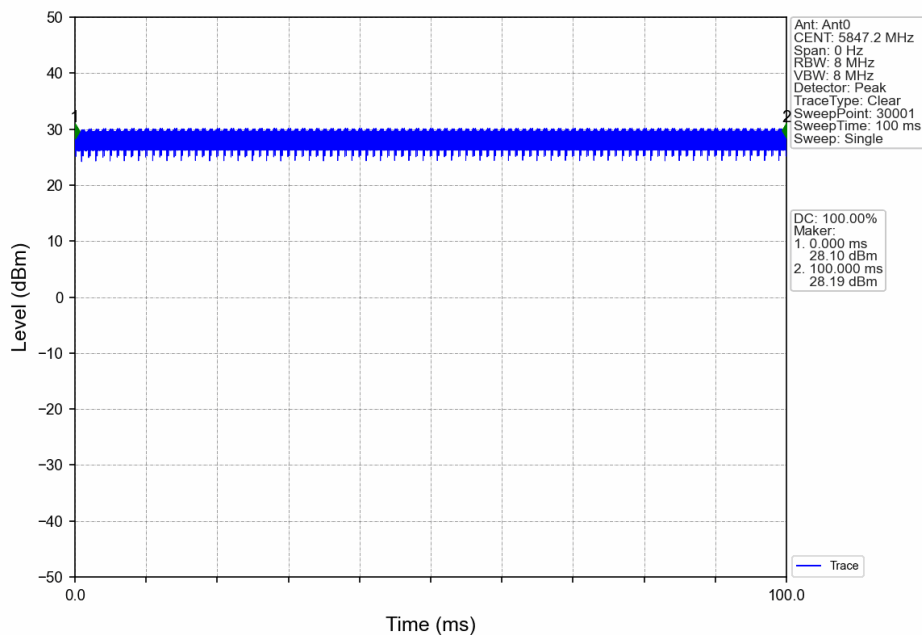
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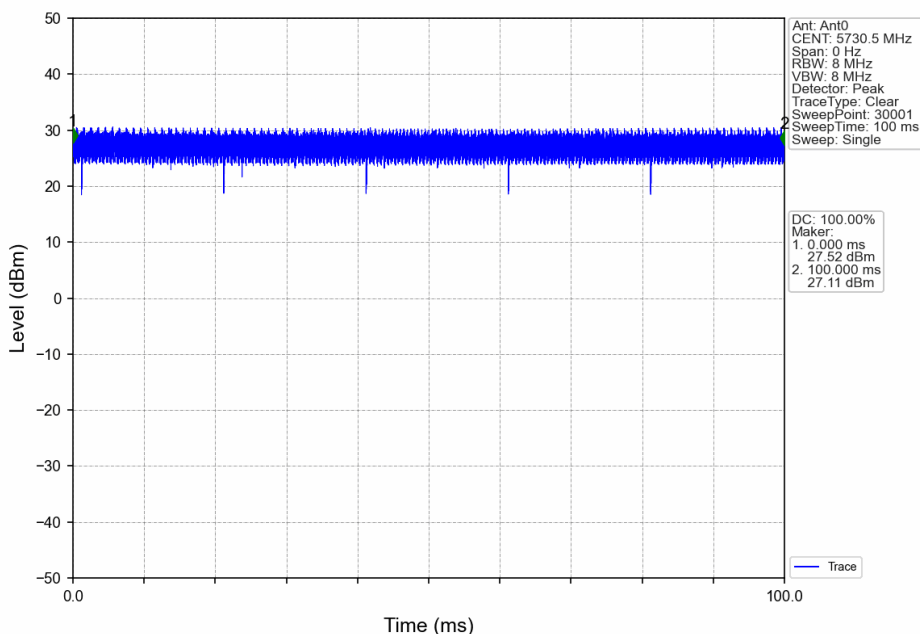
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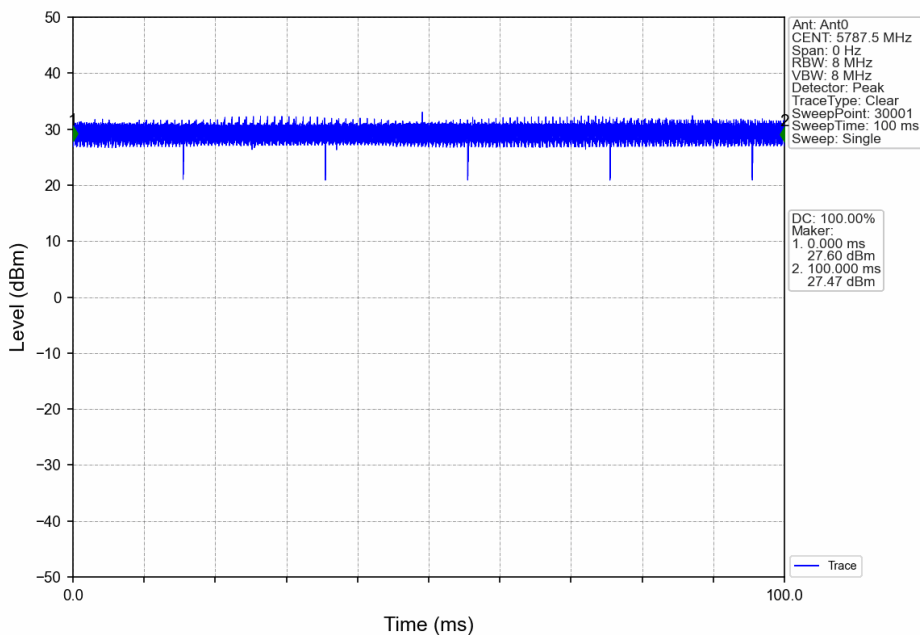
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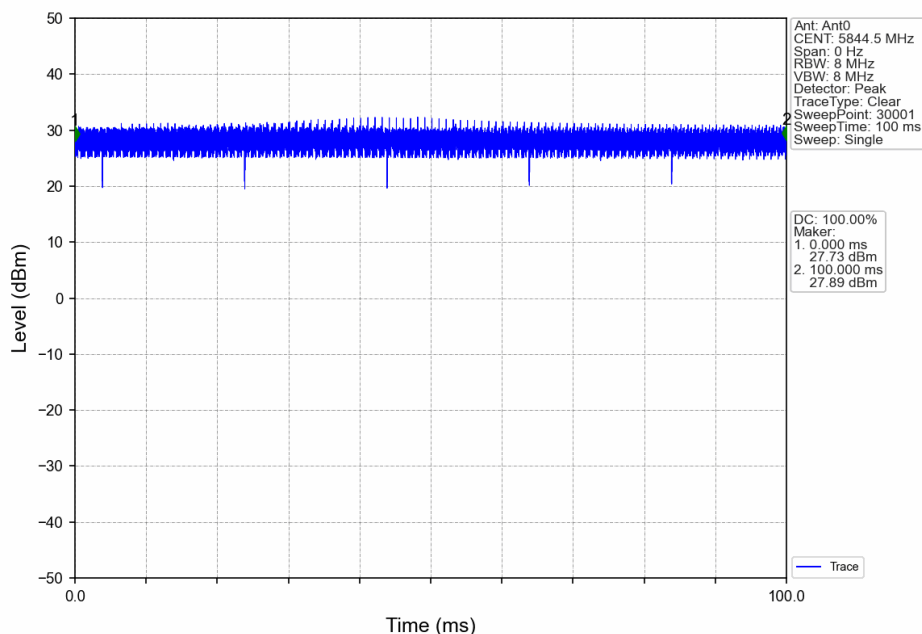
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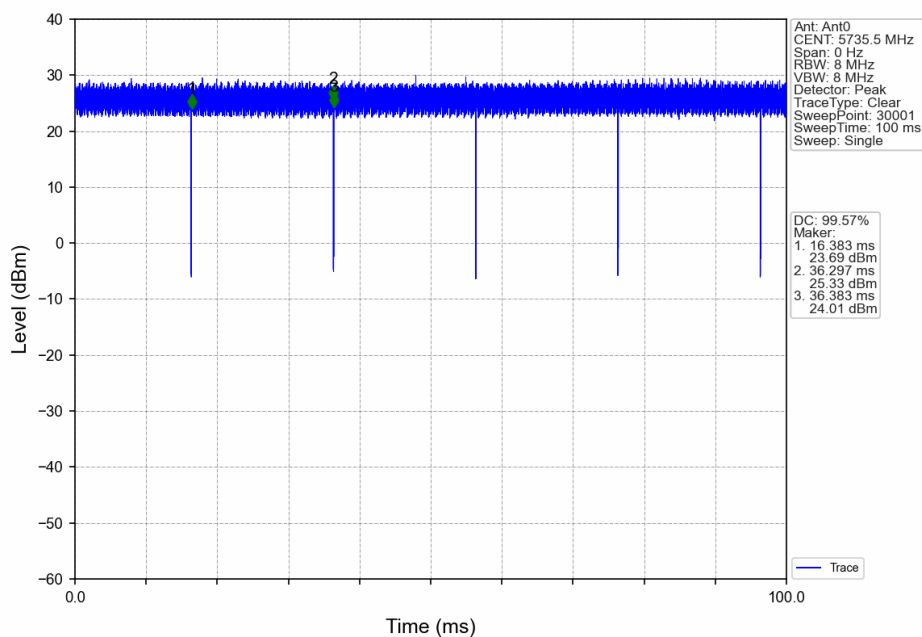
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10M_HCH_5844.5MHz_Ant0_NTNV



20M_LCH_5735.5MHz_Ant0_NTNV



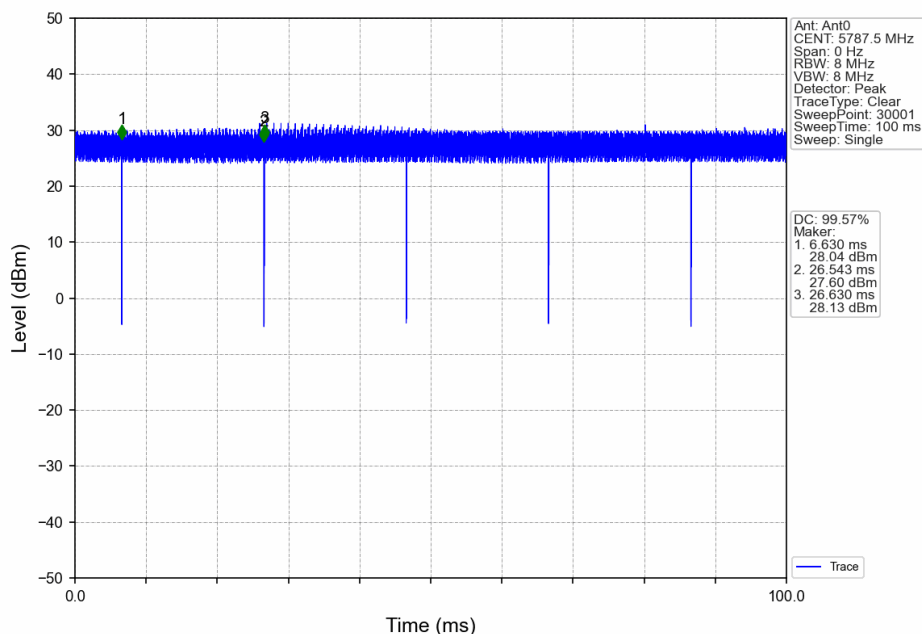
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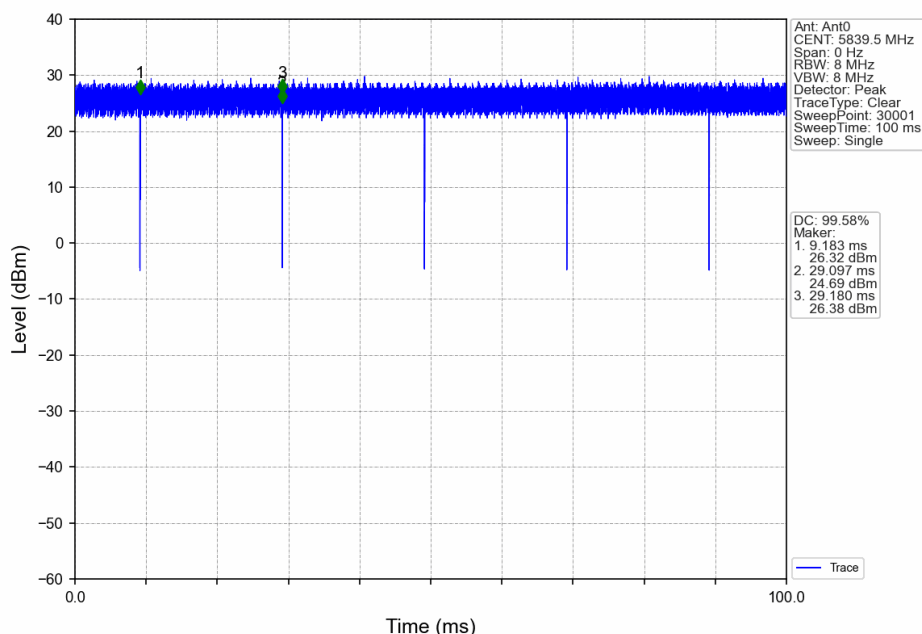
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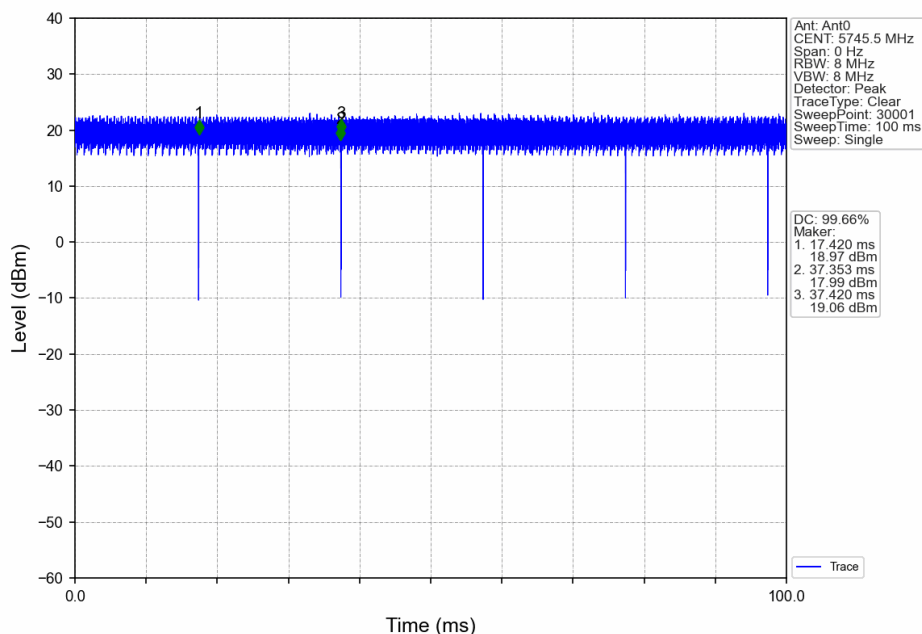
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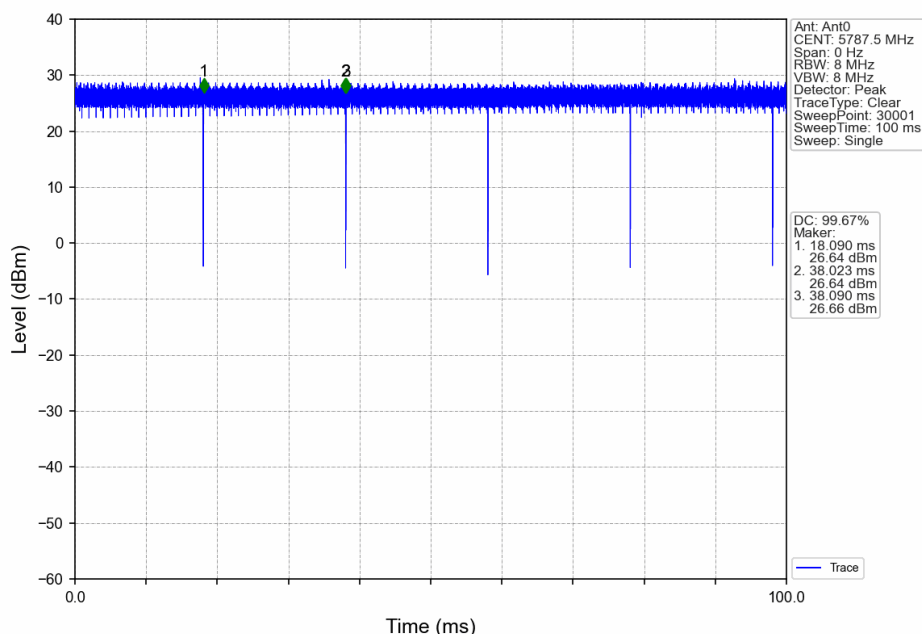
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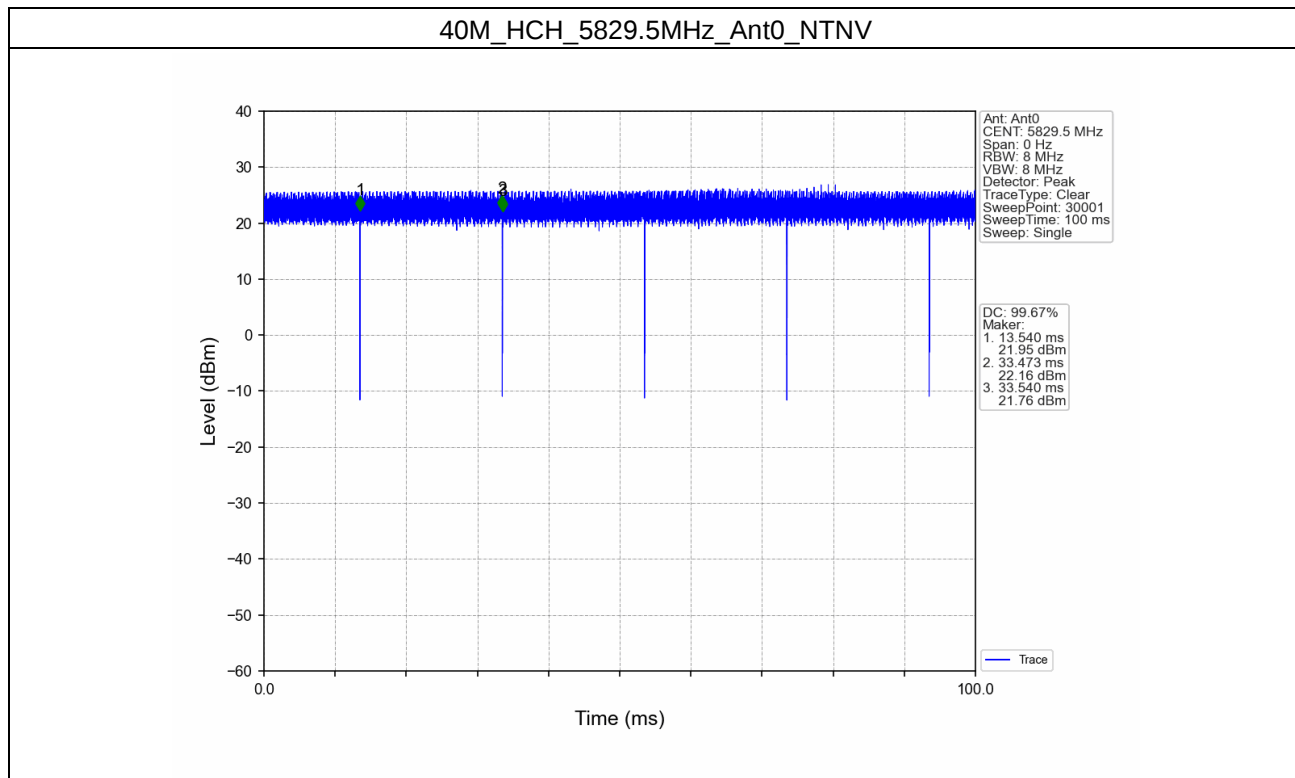


40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV





2. Bandwidth

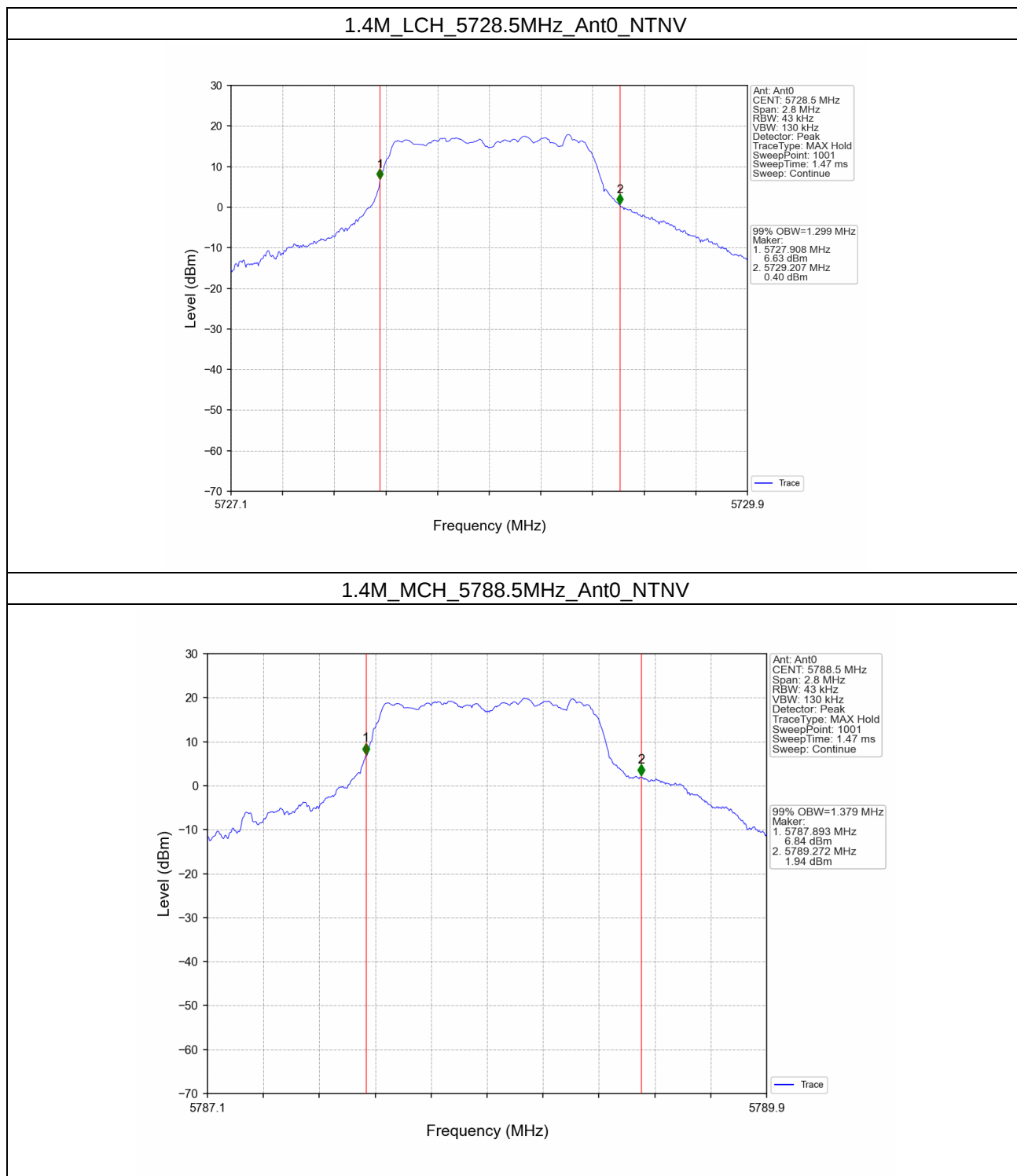
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1.4M	MIMO	5728.5	0	1.299	Pass
		5788.5	0	1.379	Pass
		5848.12	0	1.431	Pass
3M	MIMO	5727.5	0	2.323	Pass
		5787.5	0	2.343	Pass
		5847.2	0	2.396	Pass
10M	MIMO	5730.5	0	9.007	Pass
		5787.5	0	9.100	Pass
		5844.5	0	9.077	Pass
20M	MIMO	5735.5	0	18.041	Pass
		5787.5	0	18.117	Pass
		5839.5	0	18.008	Pass
40M	MIMO	5745.5	0	36.182	Pass
		5787.5	0	36.889	Pass
		5829.5	0	36.227	Pass



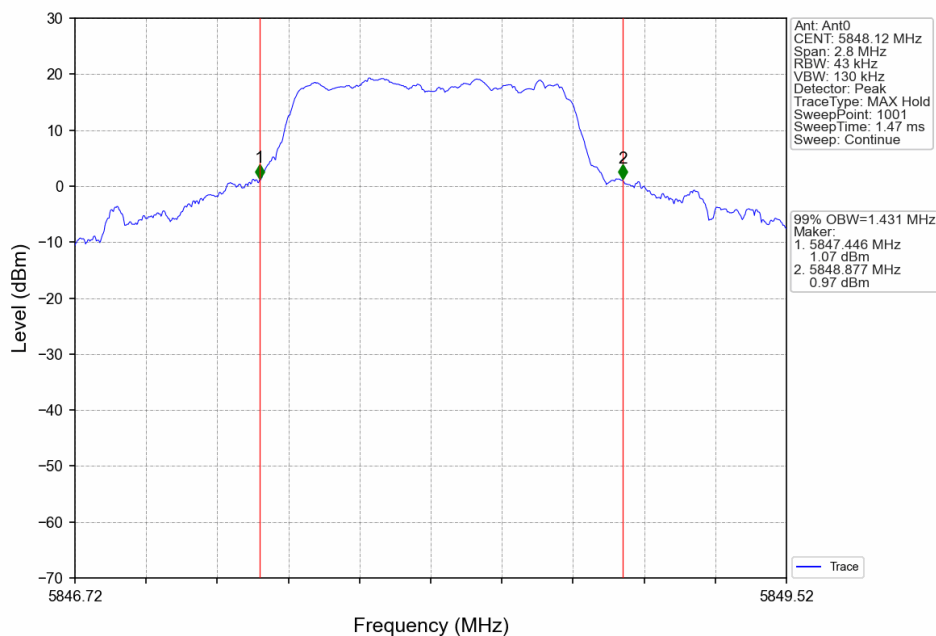
2.1.2 Test Graph



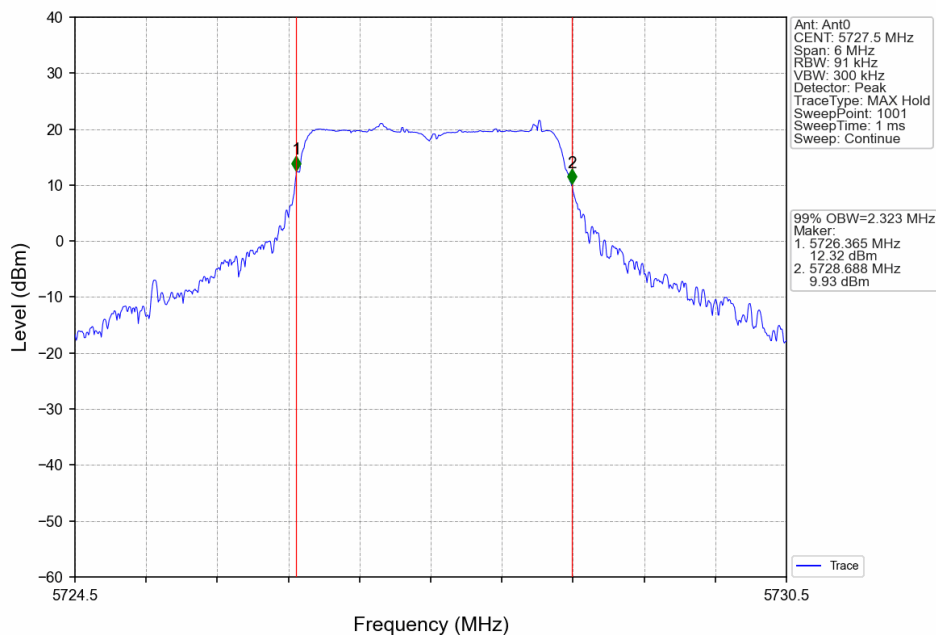
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1.4M_HCH_5848.12MHz_Ant0_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



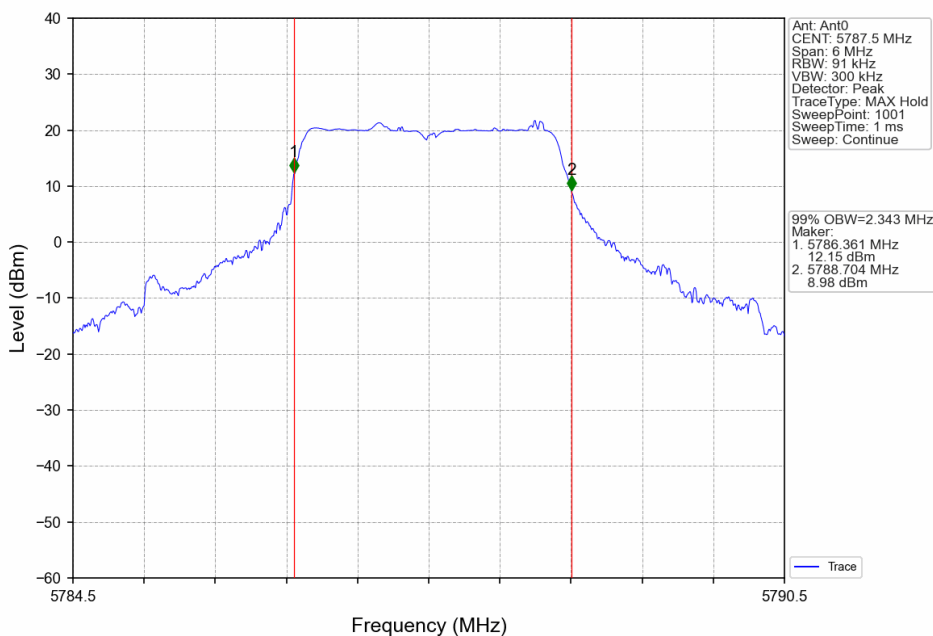
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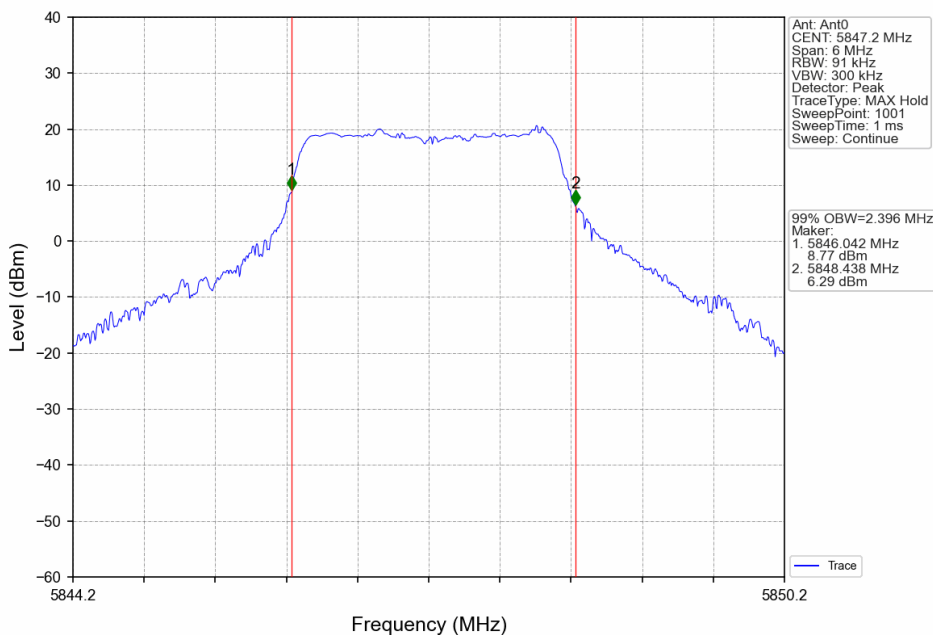
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3M_MCH_5787.5MHz_Ant0_NTNV



3M_HCH_5847.2MHz_Ant0_NTNV



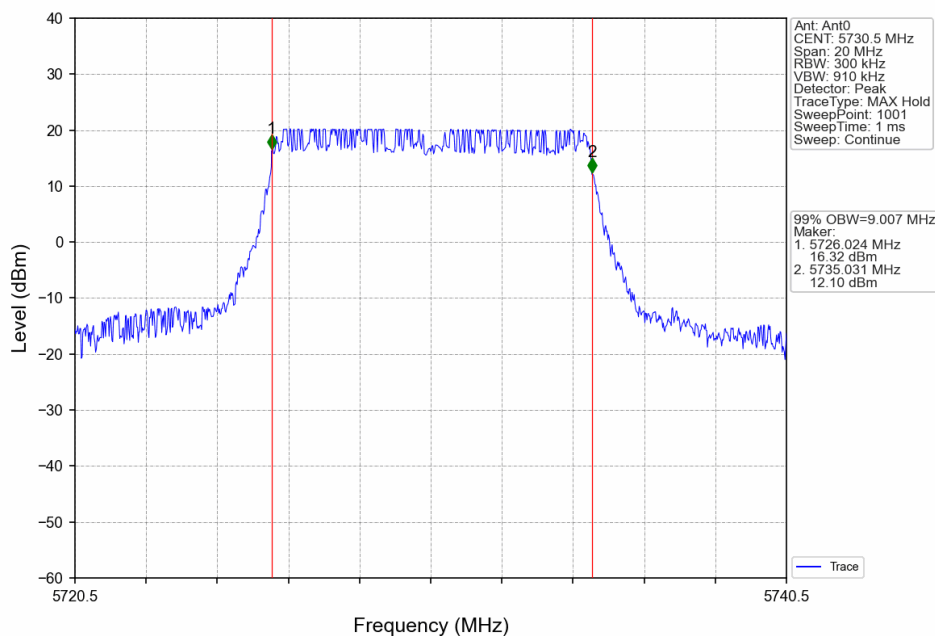
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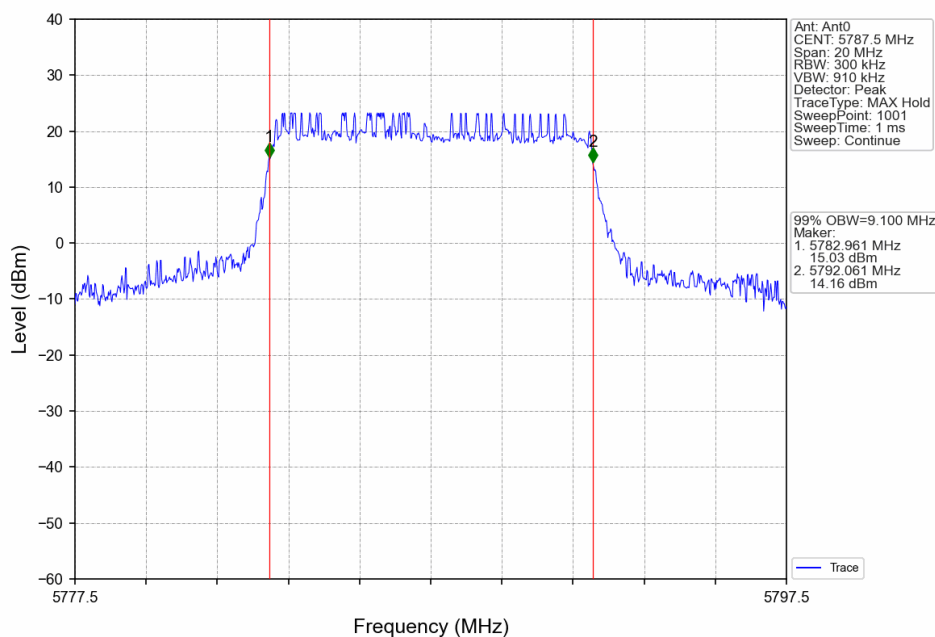
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10M_LCH_5730.5MHz_Ant0_NTNV



10M_MCH_5787.5MHz_Ant0_NTNV



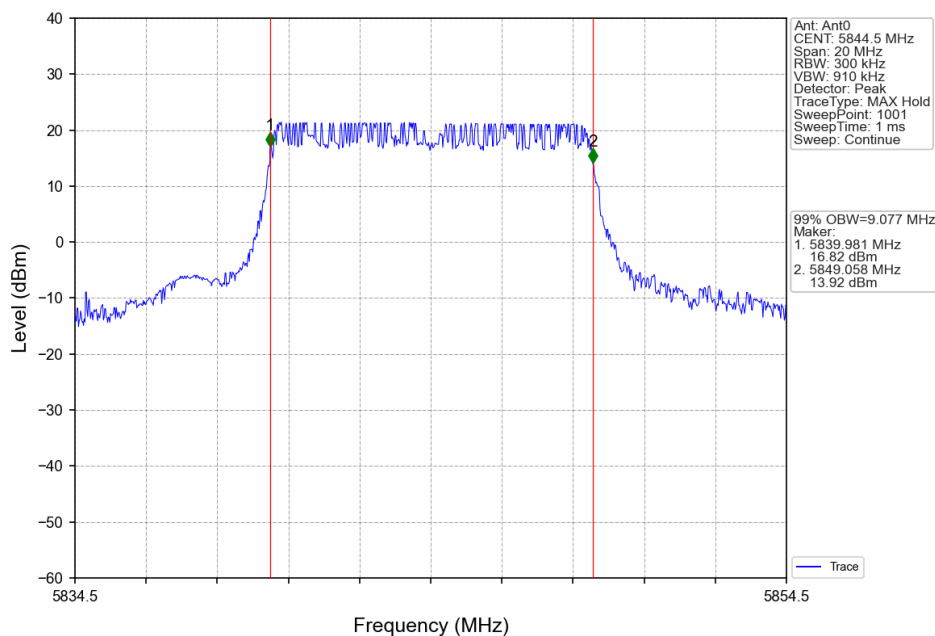
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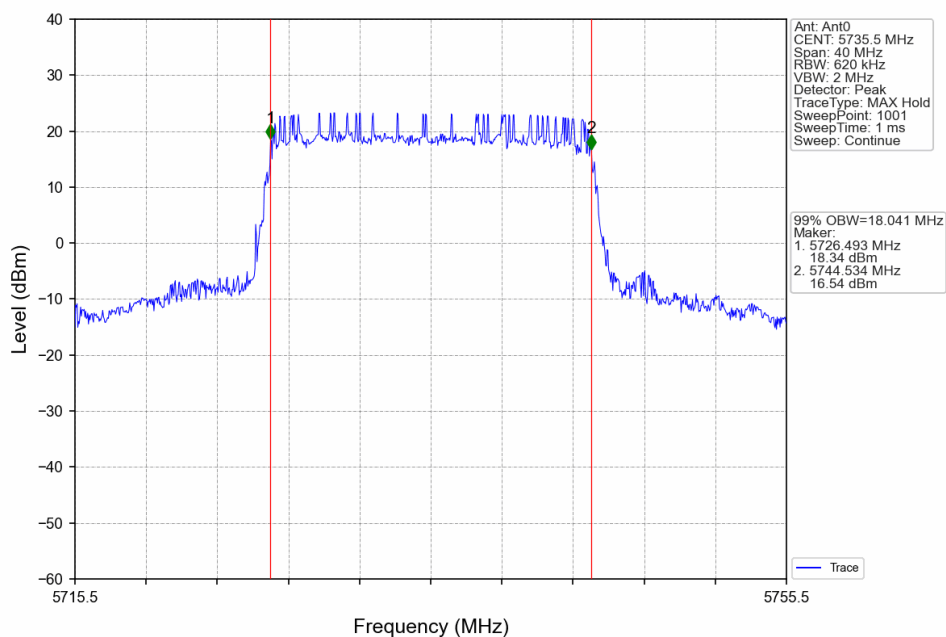
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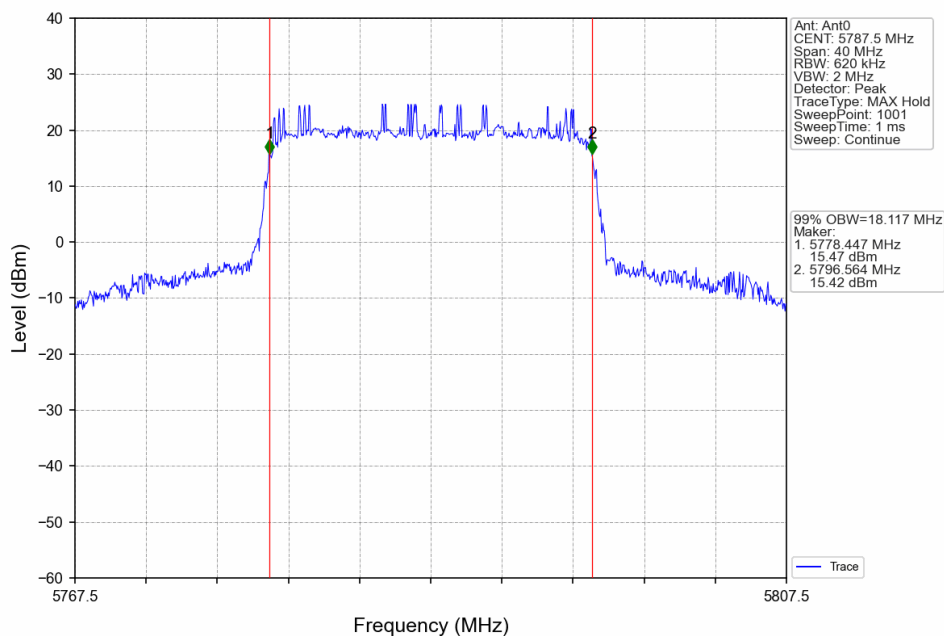
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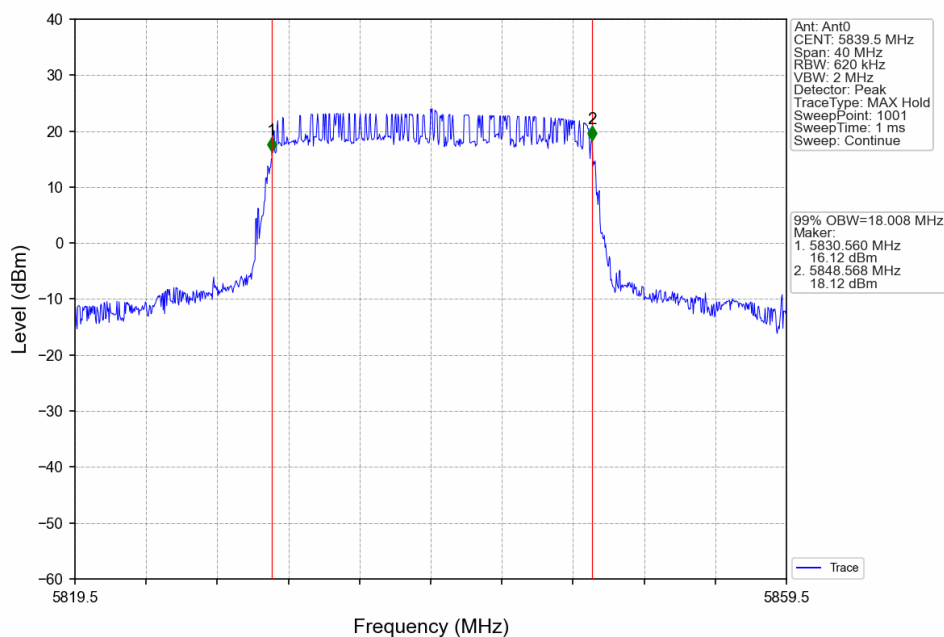
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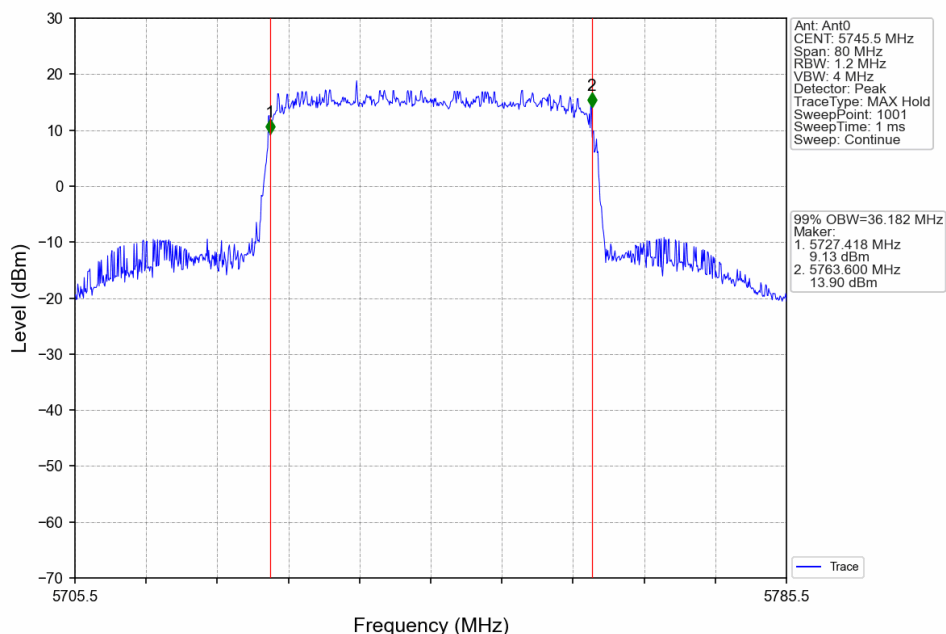
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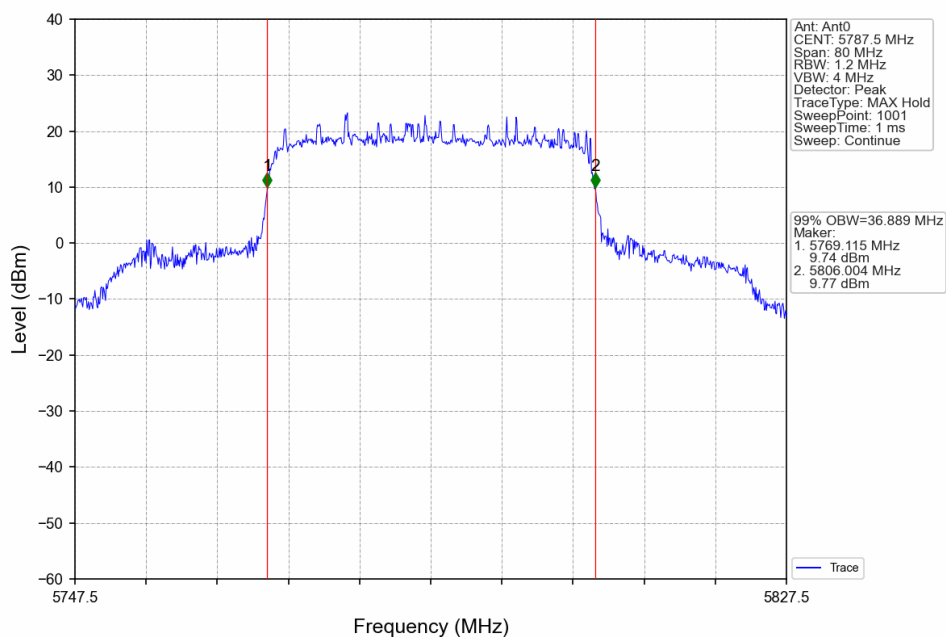
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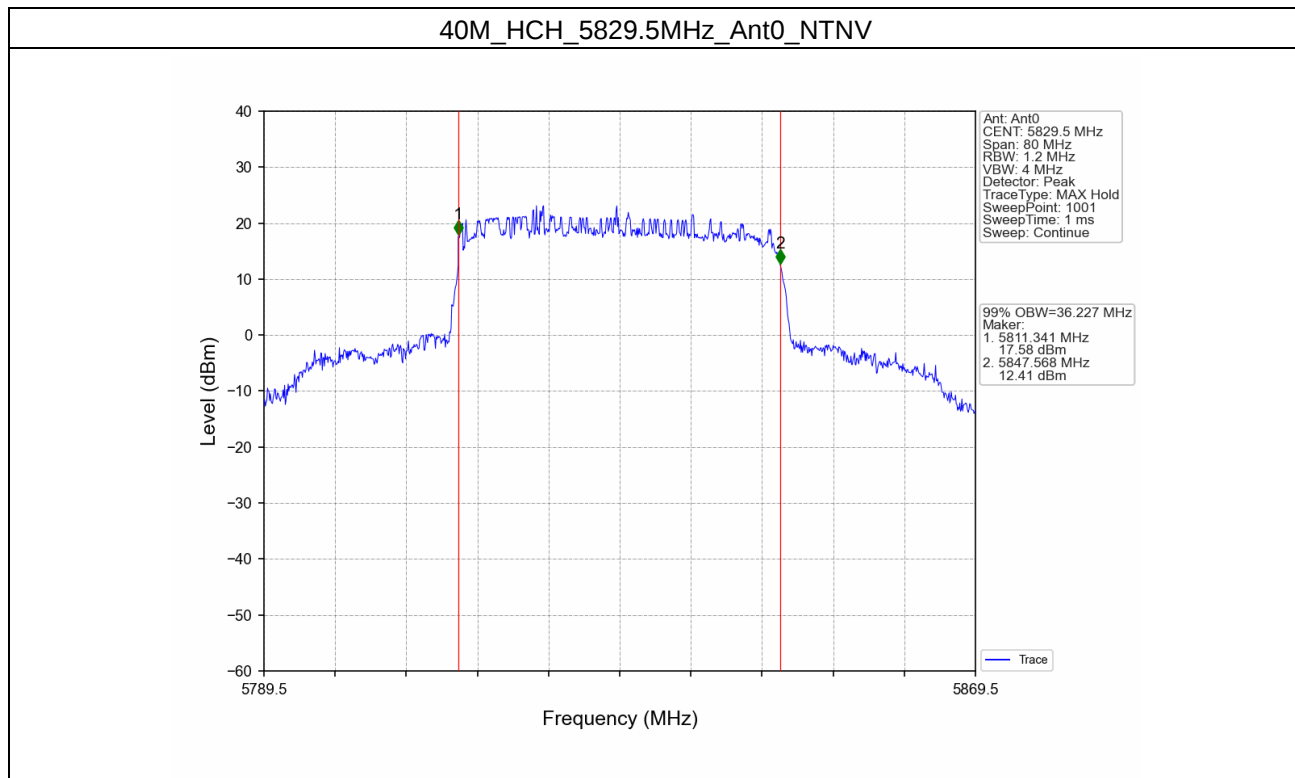


40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV





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

Report No.: SZCR230800255903

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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	1.097	≥ 0.5	Pass
		5788.5	0	1.103	≥ 0.5	Pass
		5848.12	0	1.115	≥ 0.5	Pass
3M	MIMO	5727.5	0	2.202	≥ 0.5	Pass
		5787.5	0	2.211	≥ 0.5	Pass
		5847.2	0	2.220	≥ 0.5	Pass
10M	MIMO	5730.5	0	9.054	≥ 0.5	Pass
		5787.5	0	9.054	≥ 0.5	Pass
		5844.5	0	9.039	≥ 0.5	Pass
20M	MIMO	5735.5	0	18.011	≥ 0.5	Pass
		5787.5	0	18.014	≥ 0.5	Pass
		5839.5	0	17.976	≥ 0.5	Pass
40M	MIMO	5745.5	0	36.038	≥ 0.5	Pass
		5787.5	0	35.942	≥ 0.5	Pass
		5829.5	0	35.985	≥ 0.5	Pass



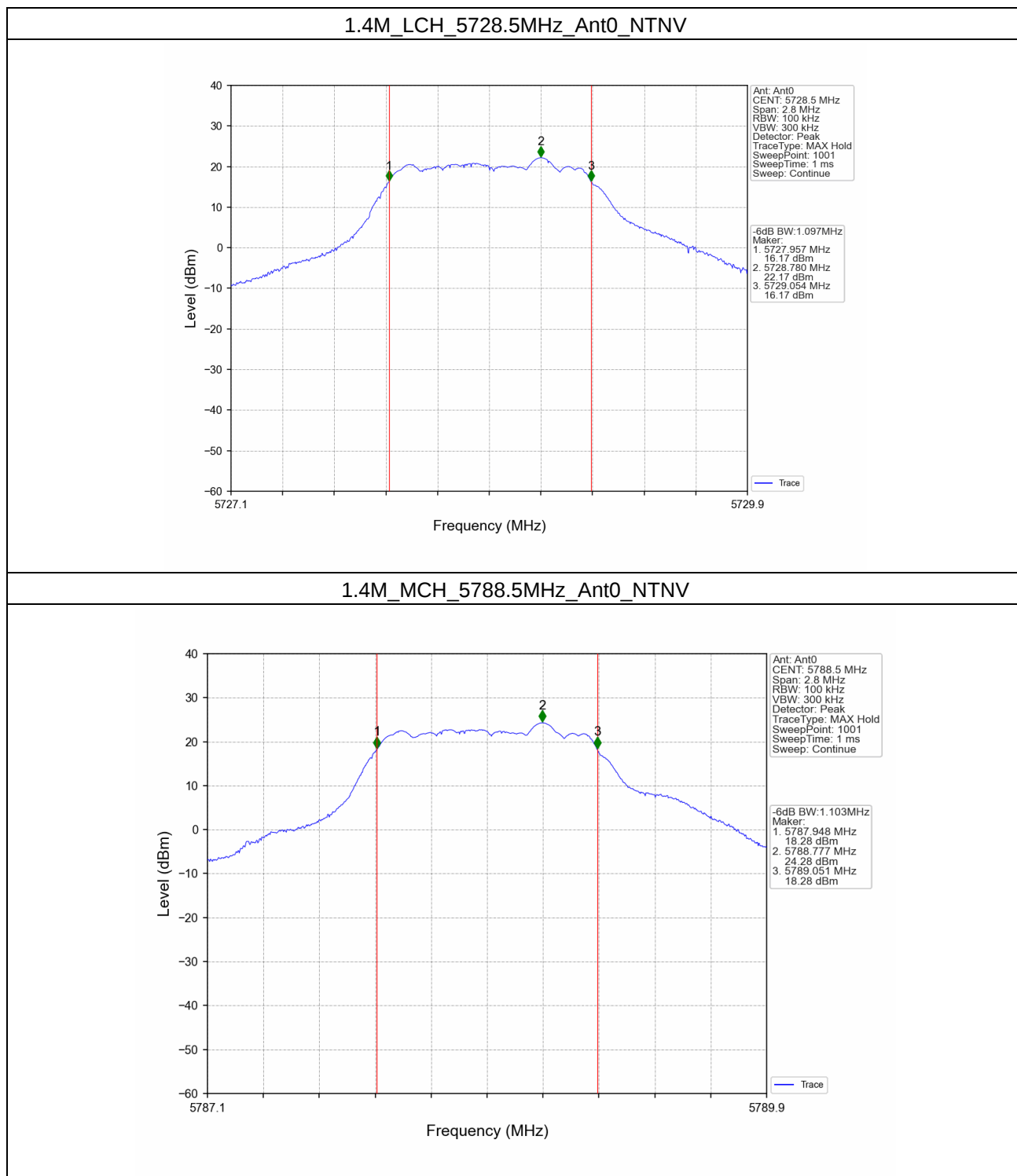
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2.2.2 Test Graph



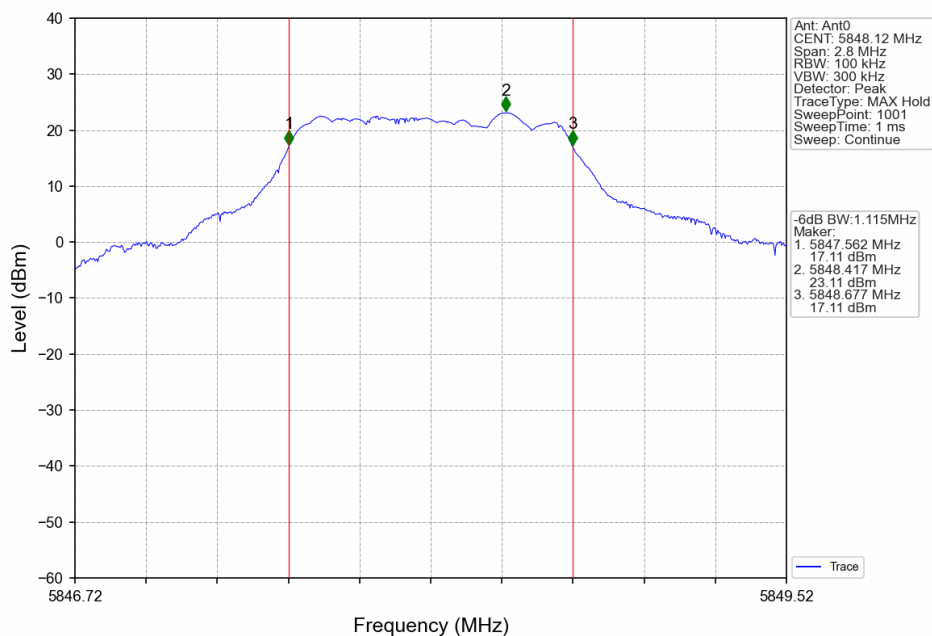
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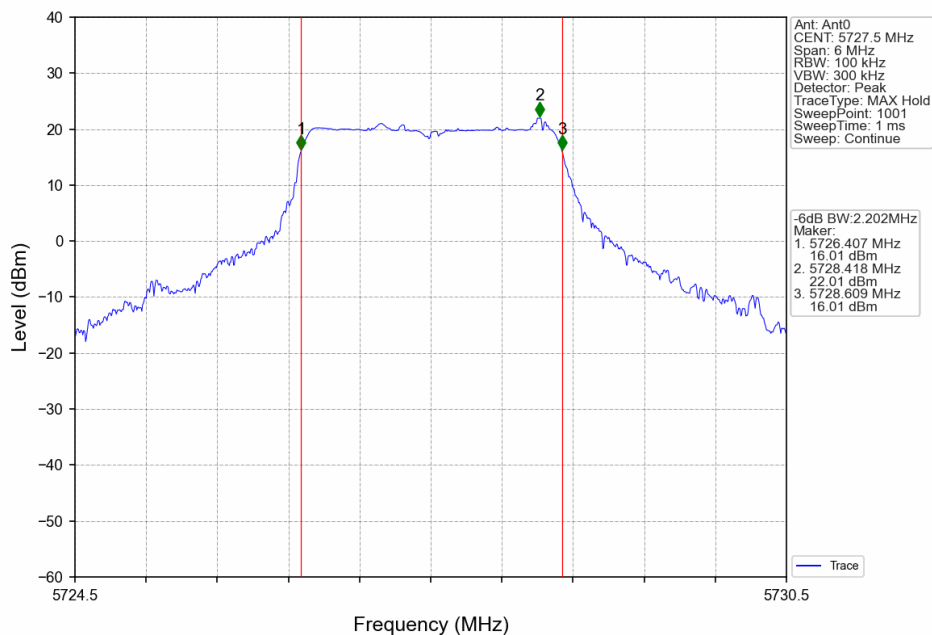
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3M_LCH_5727.5MHz_Ant0_NTNV



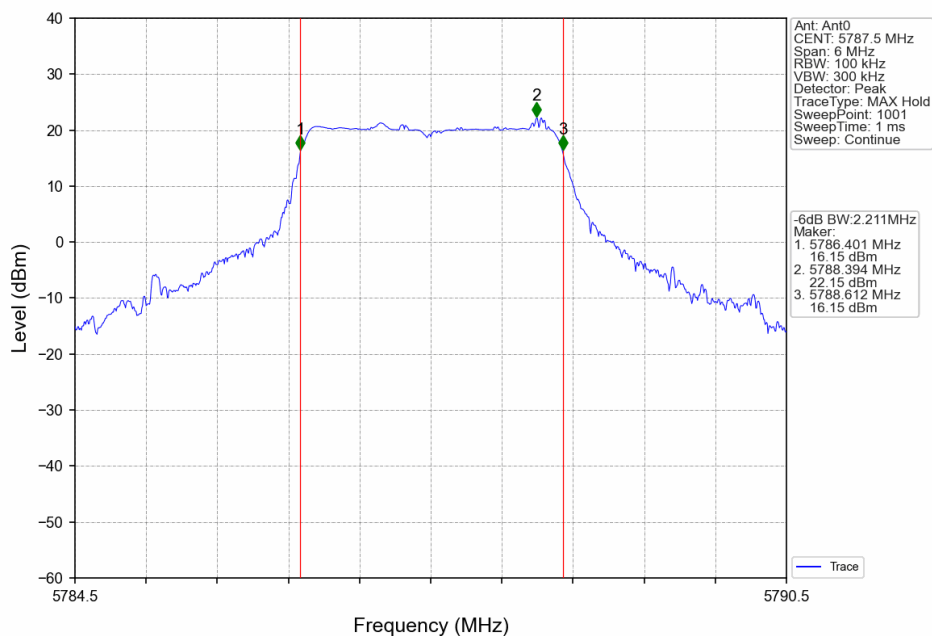
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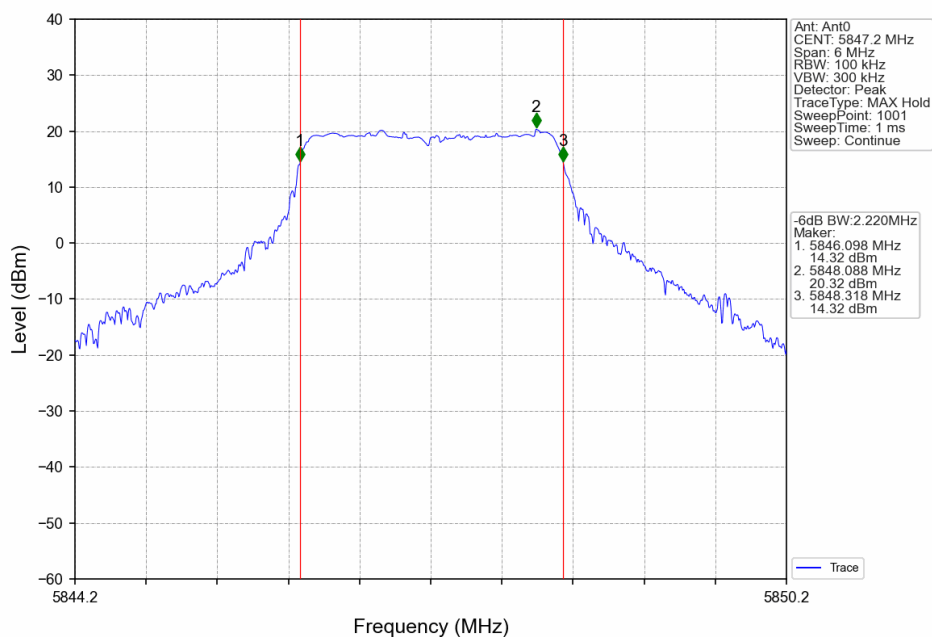
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3M_HCH_5847.2MHz_Ant0_NTNV



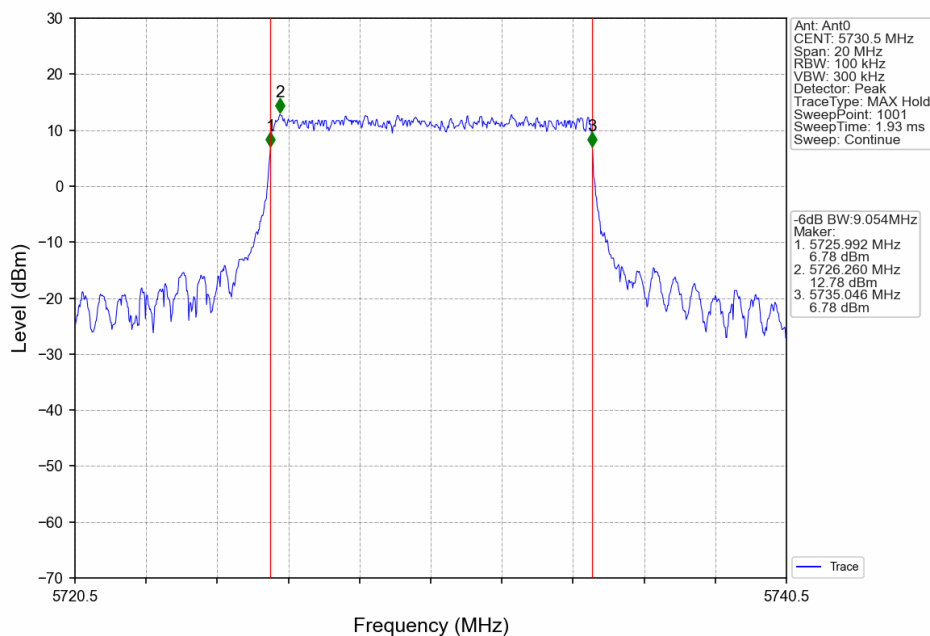
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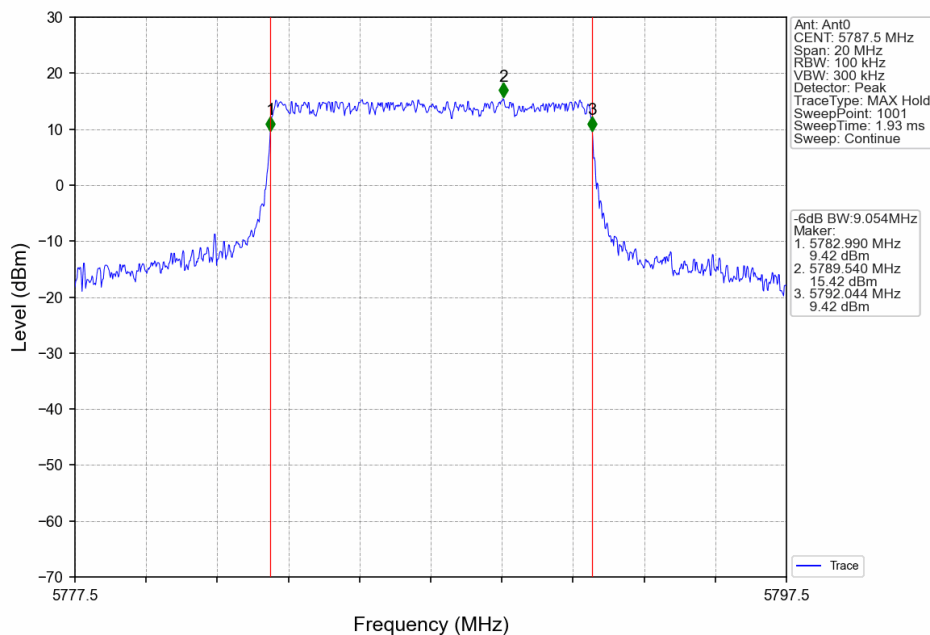
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

10M_LCH_5730.5MHz_Ant0_NTNV



10M_MCH_5787.5MHz_Ant0_NTNV



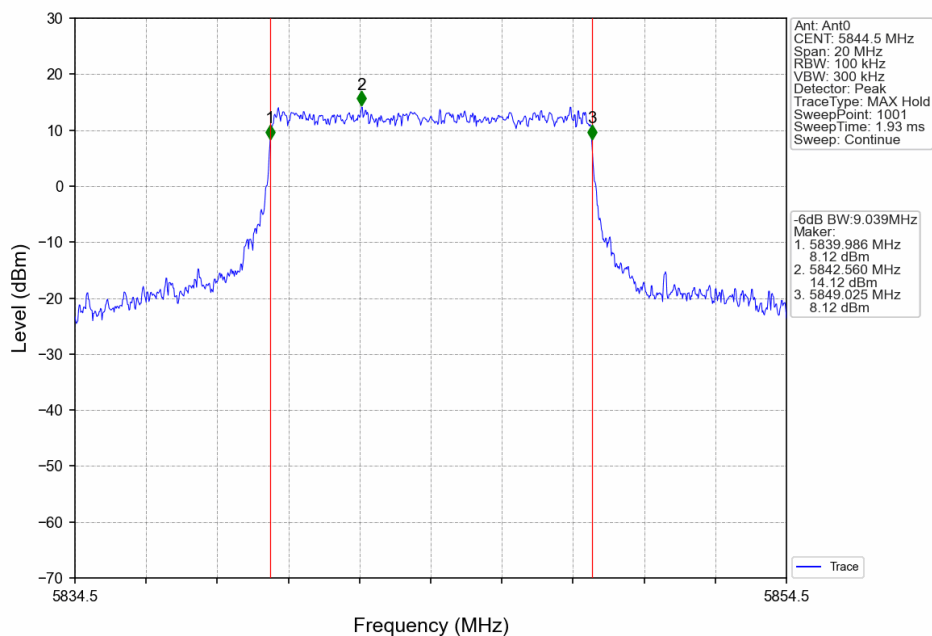
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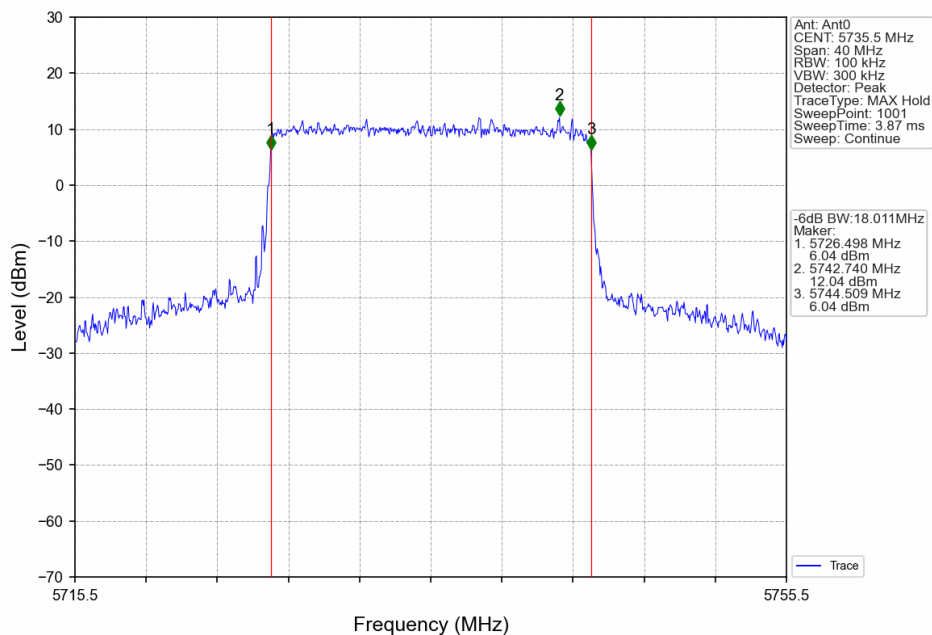
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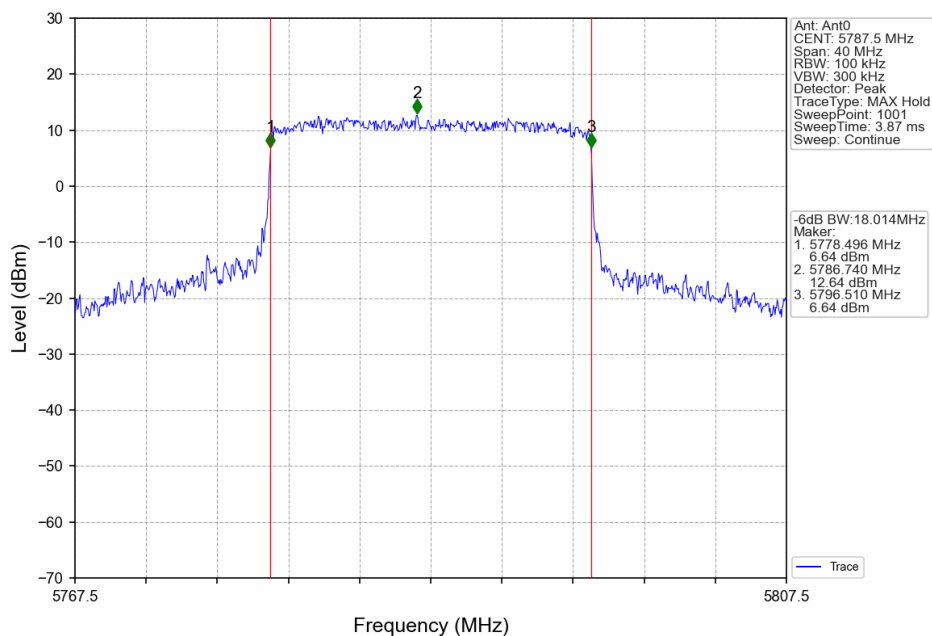
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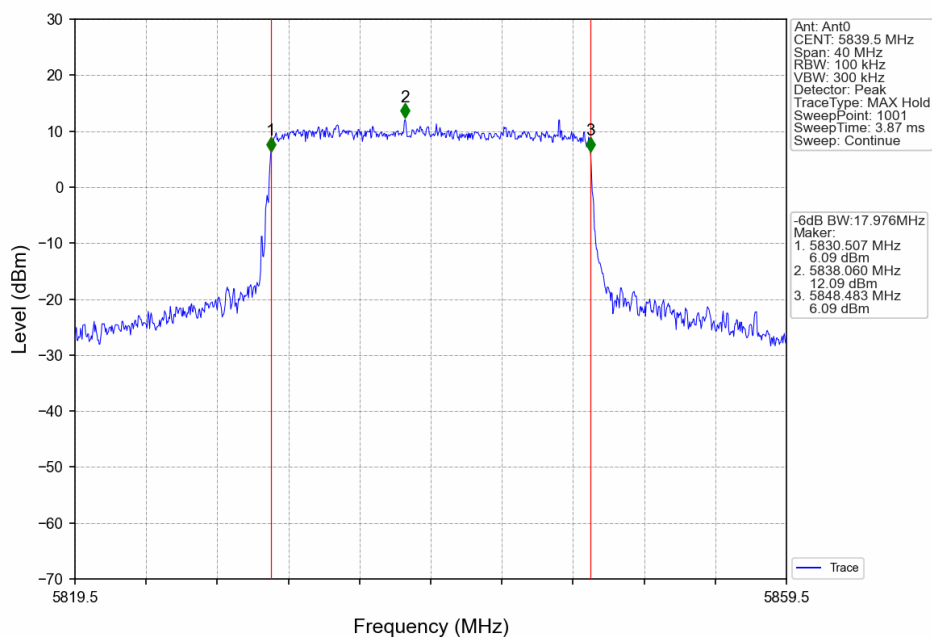
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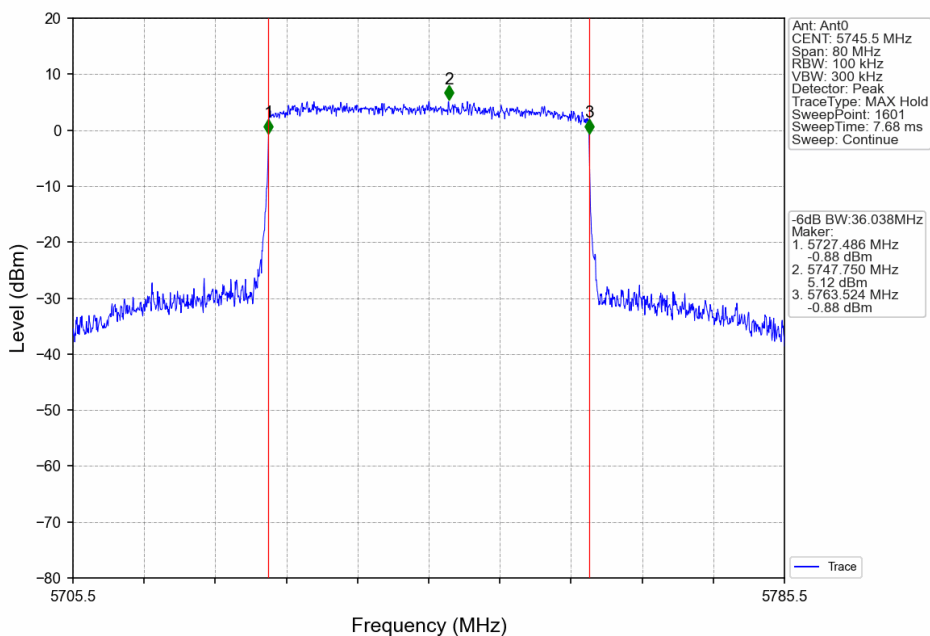
20M_MCH_5787.5MHz_Ant0_NTNV



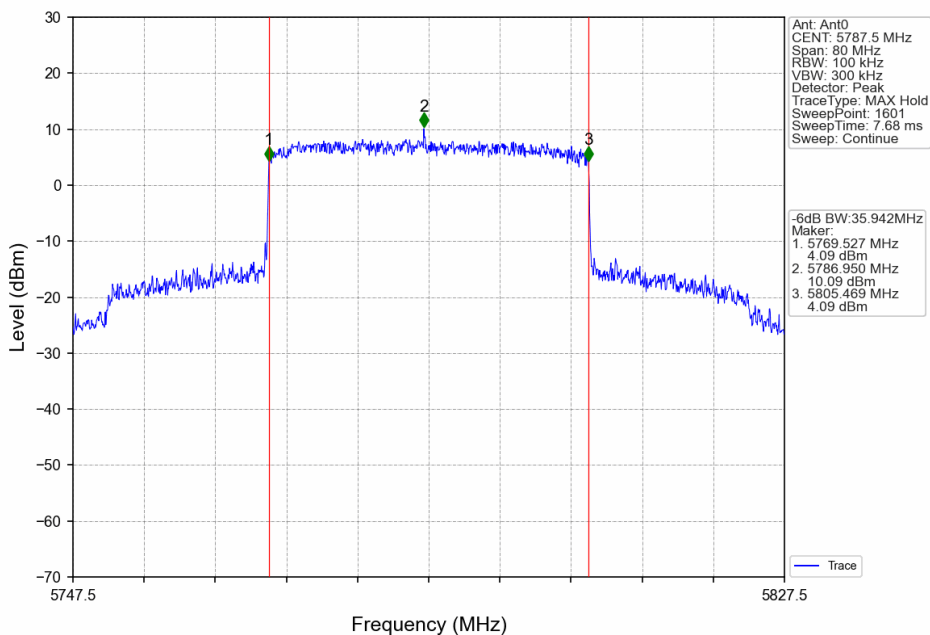
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40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV

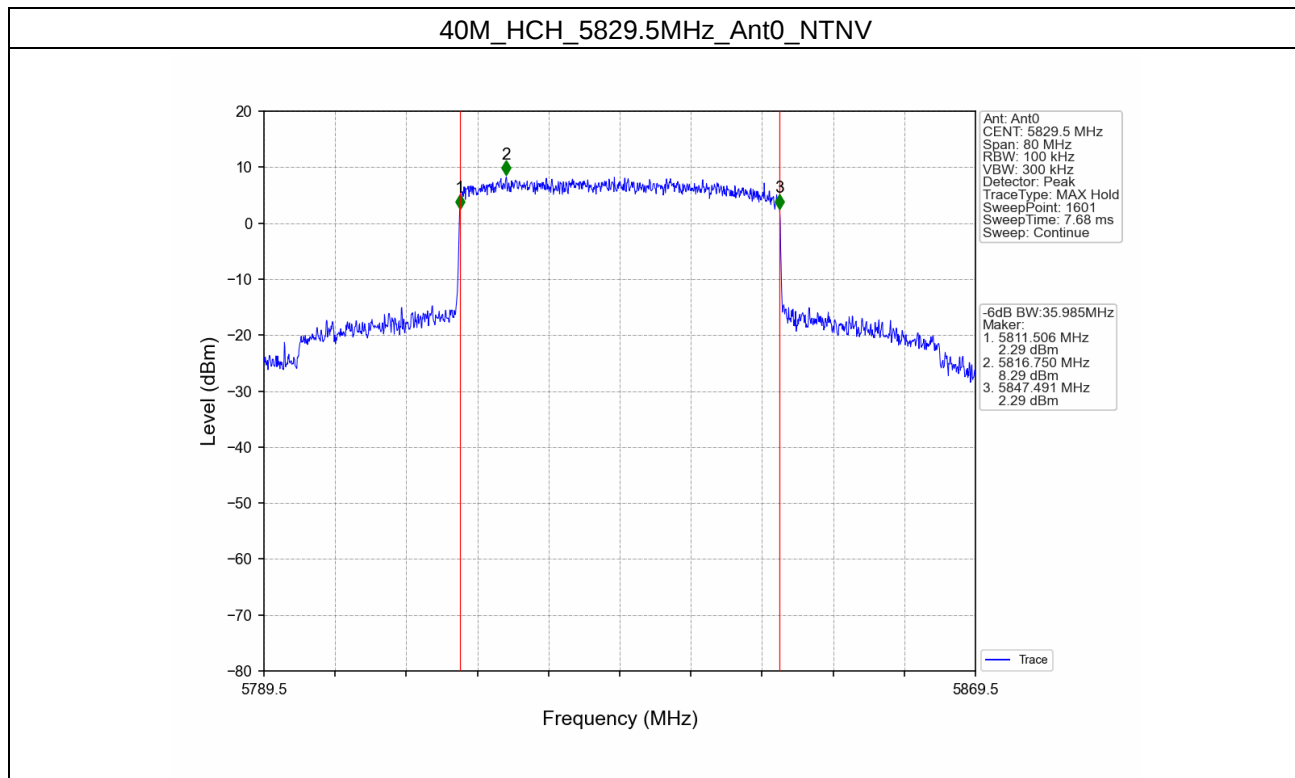


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3. Maximum Conducted Output Power

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	13.39	14.58	17.04	<=28.99	Pass
		5788.5	14.13	14.94	17.56	<=28.99	Pass
		5848.12	12.43	14.16	16.39	<=28.99	Pass
3M	MIMO	5727.5	14.22	15.33	17.82	<=28.99	Pass
		5787.5	14.51	15.22	17.89	<=28.99	Pass
		5847.2	13.68	15.72	17.83	<=28.99	Pass
10M	MIMO	5730.5	23.32	24.11	26.74	<=28.99	Pass
		5787.5	24.90	25.00	27.96	<=28.99	Pass
		5844.5	23.14	24.43	26.84	<=28.99	Pass
20M	MIMO	5735.5	23.40	24.29	26.88	<=28.99	Pass
		5787.5	24.75	24.84	27.81	<=28.99	Pass
		5839.5	23.28	24.45	26.91	<=28.99	Pass
40M	MIMO	5745.5	23.94	24.36	27.17	<=28.99	Pass
		5787.5	24.38	24.43	27.42	<=28.99	Pass
		5829.5	23.34	24.03	26.71	<=28.99	Pass

Note1: Antenna Gain: Ant0: 4.00dBi; Ant1: 4.00dBi;
Note2: Directional gain (dBi) = $G_{ANT} + 10 \log(N_{ANT}) = 4dBi + 3dB = 7.01dBi$

4. Maximum Power Spectral Density

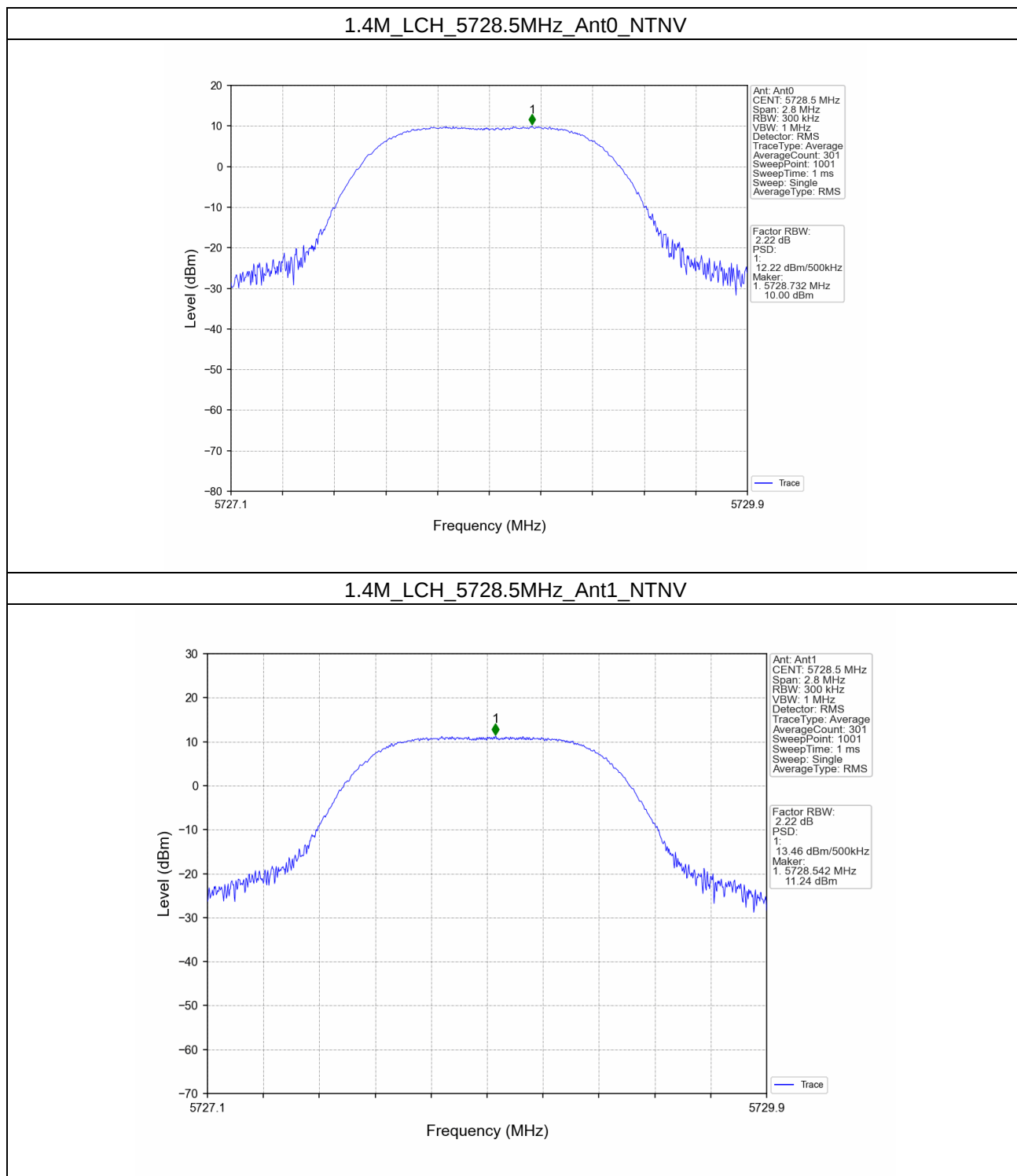
4.1 PSD-Band3

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
1.4M	MIMO	5728.5	12.22	13.46	15.74	<=28.99	Pass
		5788.5	12.54	13.55	16.03	<=28.99	Pass
		5848.12	11.43	13.50	15.45	<=28.99	Pass
3M	MIMO	5727.5	9.52	10.45	12.84	<=28.99	Pass
		5787.5	9.67	10.37	12.90	<=28.99	Pass
		5847.2	9.13	10.87	12.86	<=28.99	Pass
10M	MIMO	5730.5	11.88	12.69	15.15	<=28.99	Pass
		5787.5	13.49	13.49	16.20	<=28.99	Pass
		5844.5	11.63	12.93	15.17	<=28.99	Pass
20M	MIMO	5735.5	8.83	9.72	12.21	<=28.99	Pass
		5787.5	10.30	10.47	13.26	<=28.99	Pass
		5839.5	8.92	9.99	12.34	<=28.99	Pass
40M	MIMO	5745.5	6.54	6.85	9.52	<=28.99	Pass
		5787.5	6.95	7.57	10.07	<=28.99	Pass
		5829.5	6.04	6.46	9.23	<=28.99	Pass

Note1: Antenna Gain: Ant0: 4.00dBi; Ant1: 4.00dBi;
Note2: Directional gain (dBi) = $G_{ANT}+10 \log(N_{ANT})=4dBi+3dB=7.01dBi$

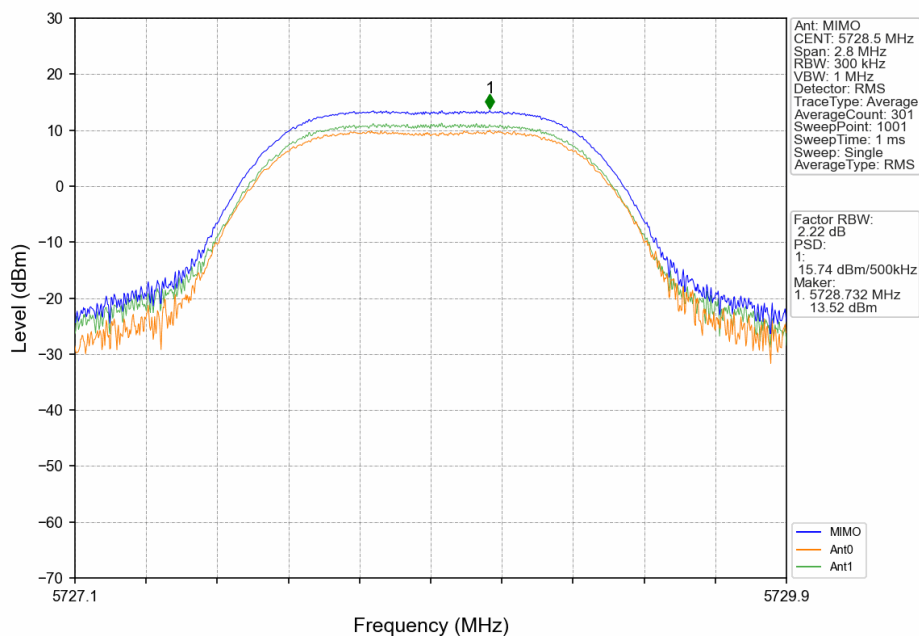
4.1.2 Test Graph



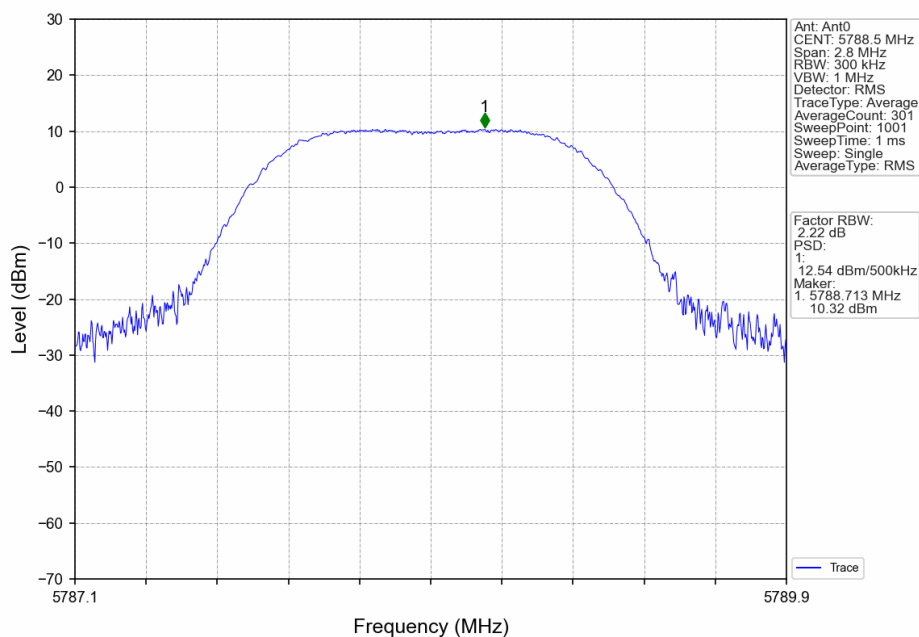
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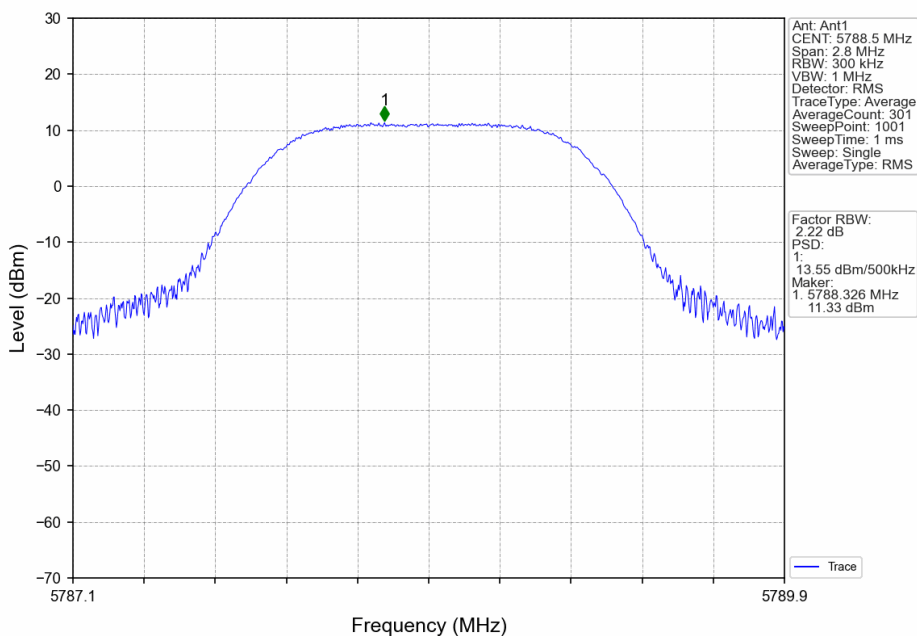
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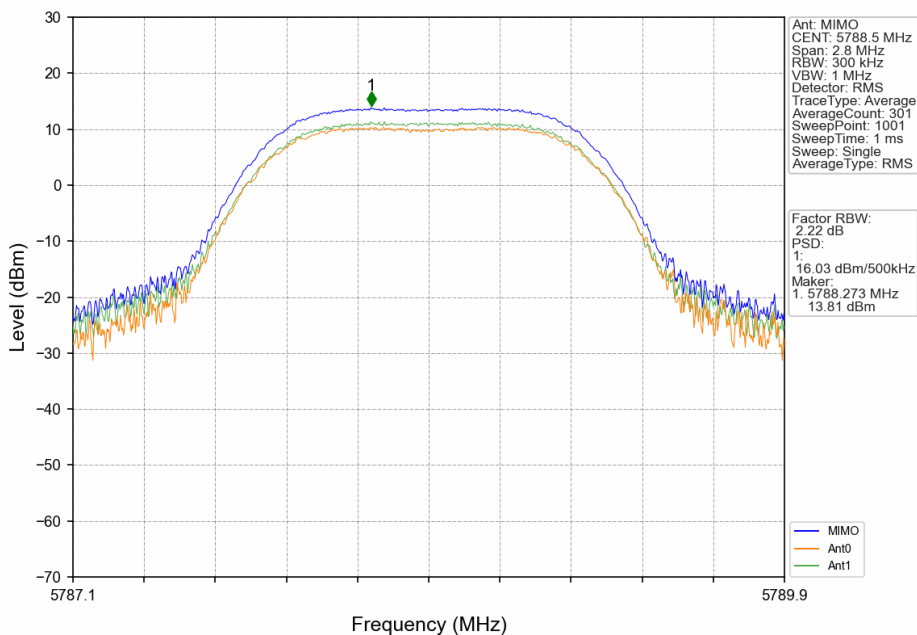
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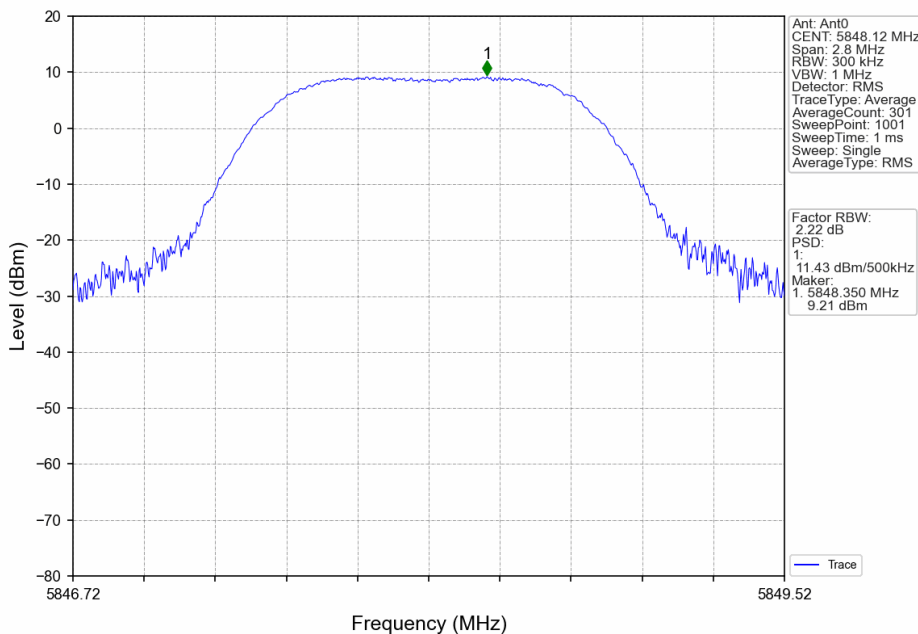
1.4M_MCH_5788.5MHz_Ant1_NTNV



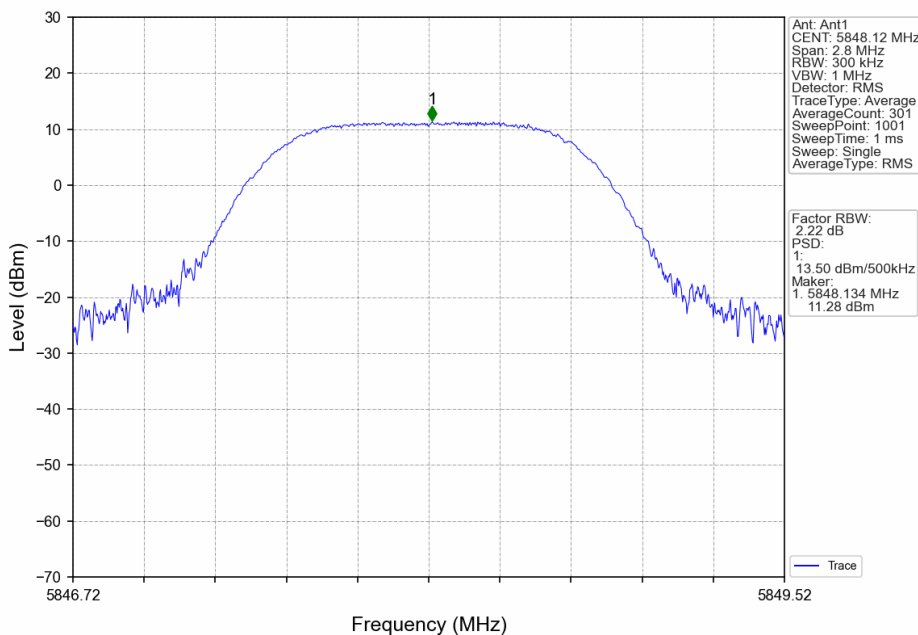
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1.4M_HCH_5848.12MHz_Ant0_NTNV



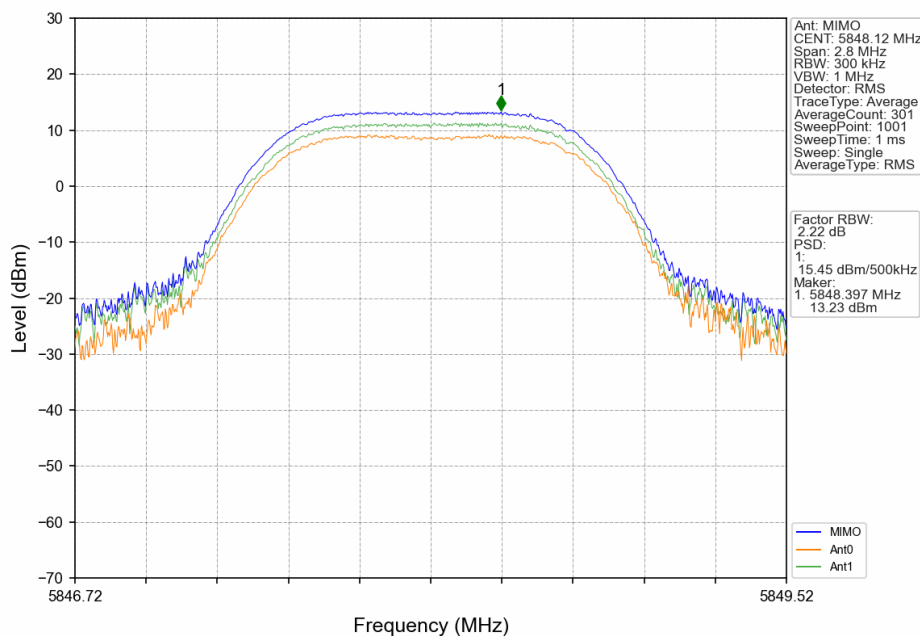
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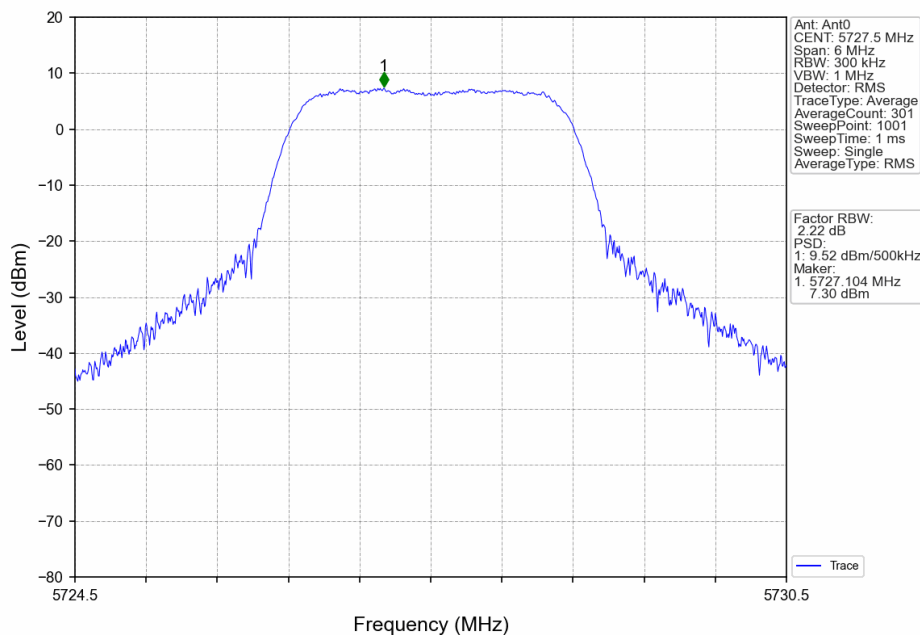
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1.4M_HCH_5848.12MHz_MIMO_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



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