

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481505

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			-20	120	5170.000	5150 to 5250	Pass
			-10	120	5170.000	5150 to 5250	Pass
			0	120	5170.040	5150 to 5250	Pass
			10	120	5170.000	5150 to 5250	Pass
			30	120	5170.000	5150 to 5250	Pass
			40	120	5170.040	5150 to 5250	Pass
			50	120	5170.000	5150 to 5250	Pass
		5200	20	102	5200.120	5150 to 5250	Pass
				120	5200.120	5150 to 5250	Pass
				138	5200.160	5150 to 5250	Pass
			-30	120	5200.200	5150 to 5250	Pass
			-20	120	5200.120	5150 to 5250	Pass
			-10	120	5200.120	5150 to 5250	Pass
			0	120	5200.120	5150 to 5250	Pass
			10	120	5200.120	5150 to 5250	Pass
			30	120	5200.120	5150 to 5250	Pass
			40	120	5200.080	5150 to 5250	Pass
			50	120	5200.160	5150 to 5250	Pass
		5230	20	102	5230.240	5150 to 5250	Pass
				120	5230.240	5150 to 5250	Pass
				138	5230.280	5150 to 5250	Pass
			-30	120	5230.240	5150 to 5250	Pass
			-20	120	5230.360	5150 to 5250	Pass
			-10	120	5230.240	5150 to 5250	Pass
			0	120	5230.240	5150 to 5250	Pass
			10	120	5230.160	5150 to 5250	Pass
			30	120	5230.280	5150 to 5250	Pass
			40	120	5230.120	5150 to 5250	Pass
			50	120	5230.240	5150 to 5250	Pass
60M	MIMO	5180	20	102	5180.060	5150 to 5250	Pass
				120	5180.060	5150 to 5250	Pass
				138	5180.060	5150 to 5250	Pass
			-30	120	5180.060	5150 to 5250	Pass
			-20	120	5180.060	5150 to 5250	Pass
			-10	120	5180.060	5150 to 5250	Pass
			0	120	5180.060	5150 to 5250	Pass
			10	120	5180.060	5150 to 5250	Pass
			30	120	5180.060	5150 to 5250	Pass
			40	120	5180.060	5150 to 5250	Pass
			50	120	5180.060	5150 to 5250	Pass



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		5200	20	102	5200.060	5150 to 5250	Pass
				120	5200.060	5150 to 5250	Pass
				138	5200.060	5150 to 5250	Pass
			-30	120	5200.060	5150 to 5250	Pass
			-20	120	5200.060	5150 to 5250	Pass
			-10	120	5200.060	5150 to 5250	Pass
			0	120	5200.060	5150 to 5250	Pass
			10	120	5200.060	5150 to 5250	Pass
			30	120	5200.120	5150 to 5250	Pass
			40	120	5200.060	5150 to 5250	Pass
			50	120	5200.060	5150 to 5250	Pass
		5220	20	102	5220.120	5150 to 5250	Pass
				120	5220.120	5150 to 5250	Pass
				138	5220.180	5150 to 5250	Pass
			-30	120	5220.180	5150 to 5250	Pass
			-20	120	5220.120	5150 to 5250	Pass
			-10	120	5220.120	5150 to 5250	Pass
			0	120	5220.060	5150 to 5250	Pass
			10	120	5220.120	5150 to 5250	Pass
			30	120	5220.120	5150 to 5250	Pass
			40	120	5220.060	5150 to 5250	Pass
			50	120	5220.120	5150 to 5250	Pass
80M	MIMO	5190	20	102	5190.000	5150 to 5250	Pass
				120	5190.075	5150 to 5250	Pass
				138	5190.000	5150 to 5250	Pass
			-30	120	5190.075	5150 to 5250	Pass
			-20	120	5190.000	5150 to 5250	Pass
			-10	120	5190.000	5150 to 5250	Pass
			0	120	5190.000	5150 to 5250	Pass
			10	120	5190.000	5150 to 5250	Pass
			30	120	5190.000	5150 to 5250	Pass
			40	120	5190.000	5150 to 5250	Pass
			50	120	5190.075	5150 to 5250	Pass
		5200	20	102	5200.075	5150 to 5250	Pass
				120	5200.225	5150 to 5250	Pass
				138	5200.150	5150 to 5250	Pass
			-30	120	5200.075	5150 to 5250	Pass
			-20	120	5200.150	5150 to 5250	Pass
			-10	120	5200.225	5150 to 5250	Pass
			0	120	5200.150	5150 to 5250	Pass



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			10	120	5200.225	5150 to 5250	Pass
			30	120	5200.150	5150 to 5250	Pass
			40	120	5200.150	5150 to 5250	Pass
			50	120	5200.075	5150 to 5250	Pass
		5210	20	102	5210.375	5150 to 5250	Pass
				120	5210.375	5150 to 5250	Pass
				138	5210.450	5150 to 5250	Pass
			-30	120	5210.225	5150 to 5250	Pass
			-20	120	5210.375	5150 to 5250	Pass
			-10	120	5210.375	5150 to 5250	Pass
			0	120	5210.375	5150 to 5250	Pass
			10	120	5210.225	5150 to 5250	Pass
			30	120	5210.150	5150 to 5250	Pass
			40	120	5210.375	5150 to 5250	Pass
50	120	5210.300	5150 to 5250	Pass			
5M	MIMO	5155	20	102	5155.020	5150 to 5250	Pass
				120	5155.025	5150 to 5250	Pass
				138	5155.035	5150 to 5250	Pass
			-30	120	5155.015	5150 to 5250	Pass
			-20	120	5155.025	5150 to 5250	Pass
			-10	120	5155.035	5150 to 5250	Pass
			0	120	5155.025	5150 to 5250	Pass
			10	120	5155.035	5150 to 5250	Pass
			30	120	5155.015	5150 to 5250	Pass
			40	120	5155.035	5150 to 5250	Pass
			50	120	5155.000	5150 to 5250	Pass
		5200	20	102	5200.030	5150 to 5250	Pass
				120	5200.030	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.030	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5200.035	5150 to 5250	Pass
			0	120	5200.030	5150 to 5250	Pass
			10	120	5200.000	5150 to 5250	Pass
			30	120	5200.025	5150 to 5250	Pass
			40	120	5200.035	5150 to 5250	Pass
		50	120	5200.025	5150 to 5250	Pass	
		5245	20	102	5245.035	5150 to 5250	Pass
				120	5245.040	5150 to 5250	Pass
				138	5245.030	5150 to 5250	Pass



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			-30	120	5245.035	5150 to 5250	Pass
			-20	120	5245.040	5150 to 5250	Pass
			-10	120	5245.045	5150 to 5250	Pass
			0	120	5245.030	5150 to 5250	Pass
			10	120	5245.040	5150 to 5250	Pass
			30	120	5245.025	5150 to 5250	Pass
			40	120	5245.035	5150 to 5250	Pass
			50	120	5245.045	5150 to 5250	Pass
3M	MIMO	5154	20	102	5154.003	5150 to 5250	Pass
				120	5154.009	5150 to 5250	Pass
				138	5154.015	5150 to 5250	Pass
			-30	120	5154.003	5150 to 5250	Pass
			-20	120	5153.997	5150 to 5250	Pass
			-10	120	5154.000	5150 to 5250	Pass
			0	120	5154.000	5150 to 5250	Pass
			10	120	5154.006	5150 to 5250	Pass
			30	120	5154.006	5150 to 5250	Pass
			40	120	5154.006	5150 to 5250	Pass
			50	120	5154.012	5150 to 5250	Pass
		5199	20	102	5199.000	5150 to 5250	Pass
				120	5199.009	5150 to 5250	Pass
				138	5199.003	5150 to 5250	Pass
			-30	120	5199.003	5150 to 5250	Pass
			-20	120	5199.003	5150 to 5250	Pass
			-10	120	5199.000	5150 to 5250	Pass
			0	120	5199.000	5150 to 5250	Pass
			10	120	5199.003	5150 to 5250	Pass
			30	120	5198.994	5150 to 5250	Pass
			40	120	5199.006	5150 to 5250	Pass
			50	120	5198.997	5150 to 5250	Pass
		5247	20	102	5247.003	5150 to 5250	Pass
				120	5247.000	5150 to 5250	Pass
				138	5247.006	5150 to 5250	Pass
			-30	120	5247.006	5150 to 5250	Pass
			-20	120	5247.009	5150 to 5250	Pass
			-10	120	5247.006	5150 to 5250	Pass
			0	120	5247.000	5150 to 5250	Pass
			10	120	5247.012	5150 to 5250	Pass
			30	120	5247.018	5150 to 5250	Pass
			40	120	5247.003	5150 to 5250	Pass



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			50	120	5247.021	5150 to 5250	Pass
1.4M	MIMO	5154	20	102	5153.973	5150 to 5250	Pass
				120	5153.976	5150 to 5250	Pass
				138	5153.971	5150 to 5250	Pass
			-30	120	5153.975	5150 to 5250	Pass
			-20	120	5153.975	5150 to 5250	Pass
			-10	120	5153.976	5150 to 5250	Pass
			0	120	5153.973	5150 to 5250	Pass
			10	120	5153.973	5150 to 5250	Pass
			30	120	5153.978	5150 to 5250	Pass
			40	120	5153.972	5150 to 5250	Pass
			50	120	5153.973	5150 to 5250	Pass
		5200	20	102	5199.976	5150 to 5250	Pass
				120	5199.973	5150 to 5250	Pass
				138	5199.975	5150 to 5250	Pass
			-30	120	5199.978	5150 to 5250	Pass
			-20	120	5199.973	5150 to 5250	Pass
			-10	120	5199.975	5150 to 5250	Pass
			0	120	5199.976	5150 to 5250	Pass
			10	120	5199.975	5150 to 5250	Pass
			30	120	5199.973	5150 to 5250	Pass
			40	120	5199.975	5150 to 5250	Pass
			50	120	5199.975	5150 to 5250	Pass
		5248	20	102	5247.975	5150 to 5250	Pass
				120	5247.976	5150 to 5250	Pass
				138	5247.972	5150 to 5250	Pass
			-30	120	5247.975	5150 to 5250	Pass
			-20	120	5247.975	5150 to 5250	Pass
			-10	120	5247.978	5150 to 5250	Pass
			0	120	5247.976	5150 to 5250	Pass
			10	120	5247.976	5150 to 5250	Pass
			30	120	5247.973	5150 to 5250	Pass
			40	120	5247.973	5150 to 5250	Pass
			50	120	5247.976	5150 to 5250	Pass



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For 5.1G ANT 2 & ANT 3:

1. Maximum Conducted Output Power

1.1 Test Result

1.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum EIRP (dBm)				Verdict
			ANT2	ANT3	MIMO	Limit	
10M	MIMO	5157	2.53	2.28	5.42	<=21	Pass
		5200	16.33	15.41	18.90	<=21	Pass
		5245	15.84	16.04	18.95	<=21	Pass
20M	MIMO	5161	6.94	6.15	9.57	<=21	Pass
		5200	16.67	15.56	19.16	<=21	Pass
		5240	16.84	16.71	19.79	<=21	Pass
40M	MIMO	5170	8.99	8.34	11.69	<=21	Pass
		5200	16.89	16.54	19.73	<=21	Pass
		5230	16.6	15.71	19.19	<=21	Pass
60M	MIMO	5180	6.4	5.82	9.13	<=21	Pass
		5200	14.58	14.46	17.53	<=21	Pass
		5220	17.49	16.49	20.03	<=21	Pass
80M	MIMO	5190	7.66	7.2	10.45	<=21	Pass
		5200	17.48	17.04	20.28	<=21	Pass
		5210	17.38	16.63	20.03	<=21	Pass
5M	MIMO	5155	2.72	1.23	5.05	<=21	Pass
		5200	13.93	13.37	16.67	<=21	Pass
		5245	13.61	14	16.82	<=21	Pass
3M	MIMO	5154	-0.55	-1.11	2.19	<=21	Pass
		5199	10.86	9.69	13.32	<=21	Pass
		5247	9.41	10.39	12.94	<=21	Pass
1.4M	MIMO	5154	0.88	-0.52	3.25	<=21	Pass
		5200	7.7	7.36	10.54	<=21	Pass
		5248	7.69	8.26	10.99	<=21	Pass

2. Maximum Power Spectral Density

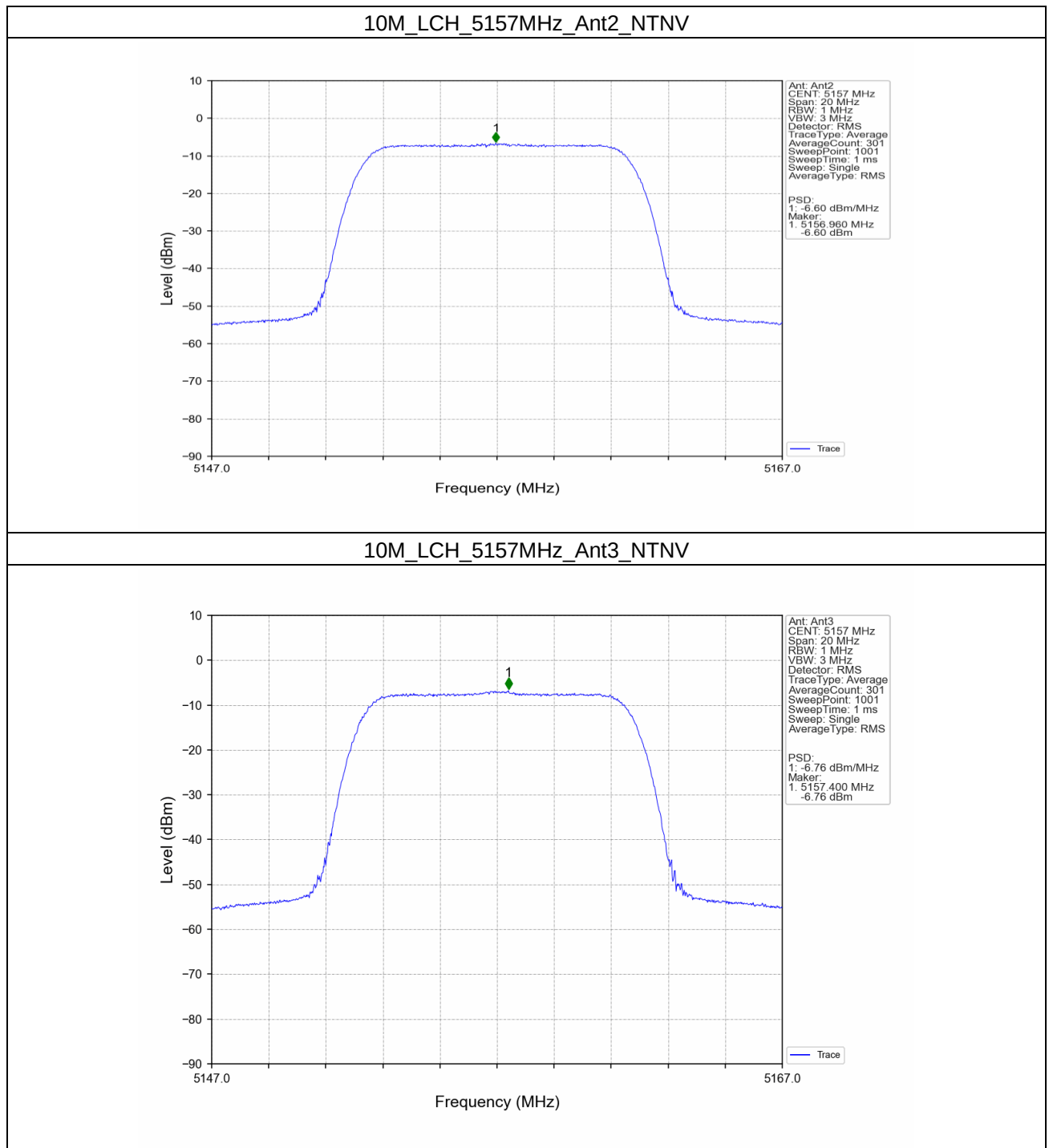
2.1 Test Result

2.1.1 PSD

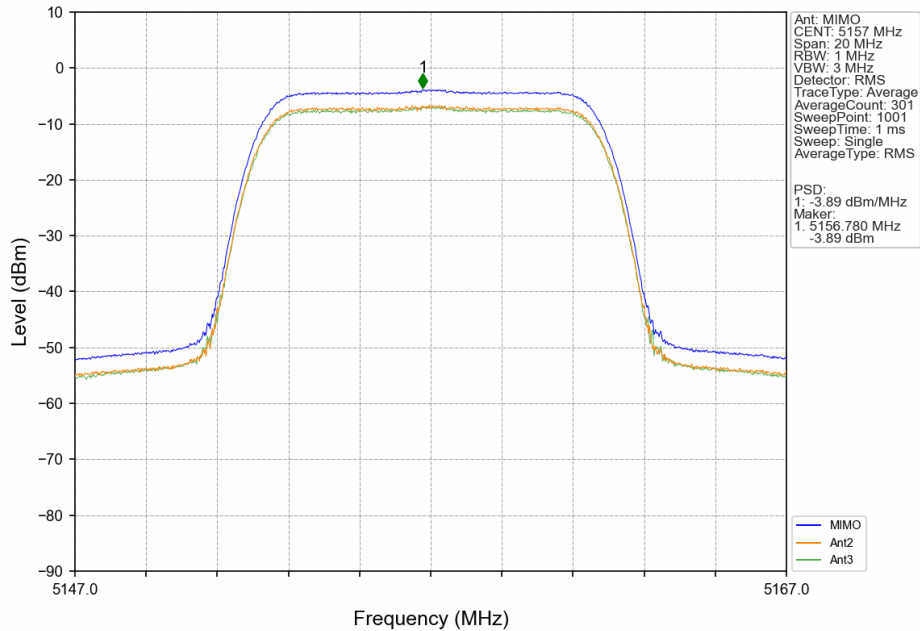
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT2	ANT3	MIMO	Limit	
10M	MIMO	5157	-6.60	-6.76	-3.89	<=17	Pass
		5200	7.26	6.50	9.74	<=17	Pass
		5245	5.14	6.22	8.59	<=17	Pass
20M	MIMO	5161	-5.12	-5.93	-2.65	<=17	Pass
		5200	4.73	3.95	7.27	<=17	Pass
		5240	4.05	3.69	6.70	<=17	Pass
40M	MIMO	5170	-6.38	-6.67	-3.67	<=17	Pass
		5200	3.02	3.04	5.90	<=17	Pass
		5230	2.98	2.78	5.76	<=17	Pass
60M	MIMO	5180	-10.35	-10.91	-7.68	<=17	Pass
		5200	-2.69	-2.70	0.16	<=17	Pass
		5220	0.91	0.57	3.63	<=17	Pass
80M	MIMO	5190	-12.15	-12.00	-9.17	<=17	Pass
		5200	0.66	0.30	3.28	<=17	Pass
		5210	1.07	0.32	3.29	<=17	Pass
5M	MIMO	5155	-2.44	-3.46	-0.10	<=17	Pass
		5200	8.63	8.20	11.28	<=17	Pass
		5245	7.01	7.65	10.16	<=17	Pass
3M	MIMO	5154	-3.79	-3.93	-0.97	<=17	Pass
		5199	8.43	7.51	10.93	<=17	Pass
		5247	5.41	6.26	8.77	<=17	Pass
1.4M	MIMO	5154	0.24	-0.37	2.86	<=17	Pass
		5200	8.40	8.13	11.16	<=17	Pass
		5248	6.73	7.95	10.28	<=17	Pass

2.2 Test Graph

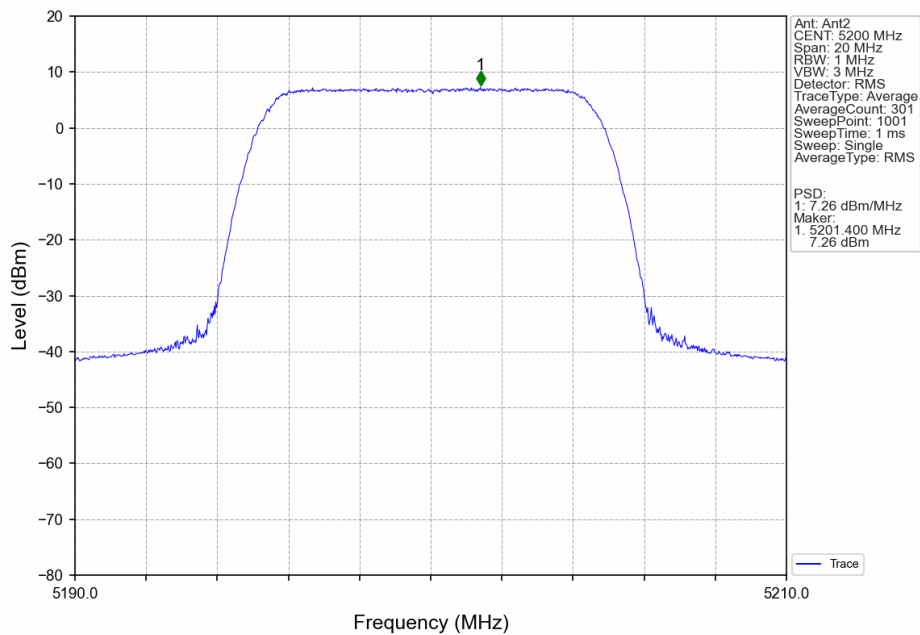
2.2.1 PSD



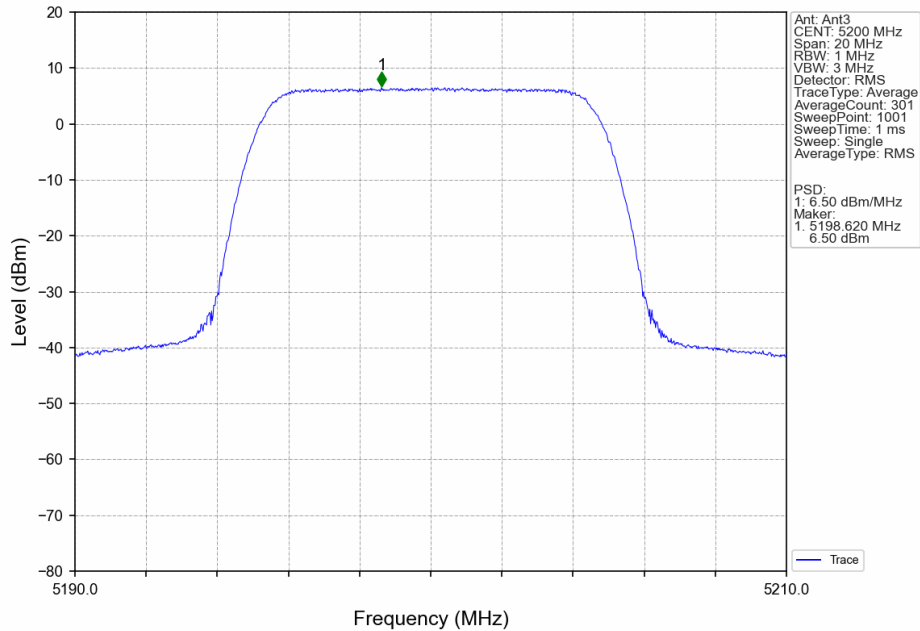
10M_LCH_5157MHz_MIMO_NTNV



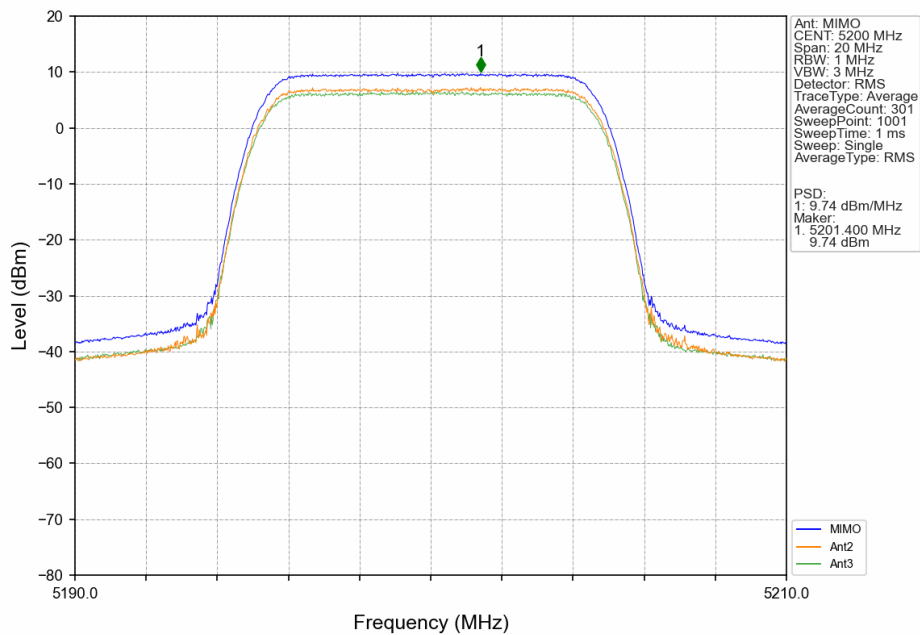
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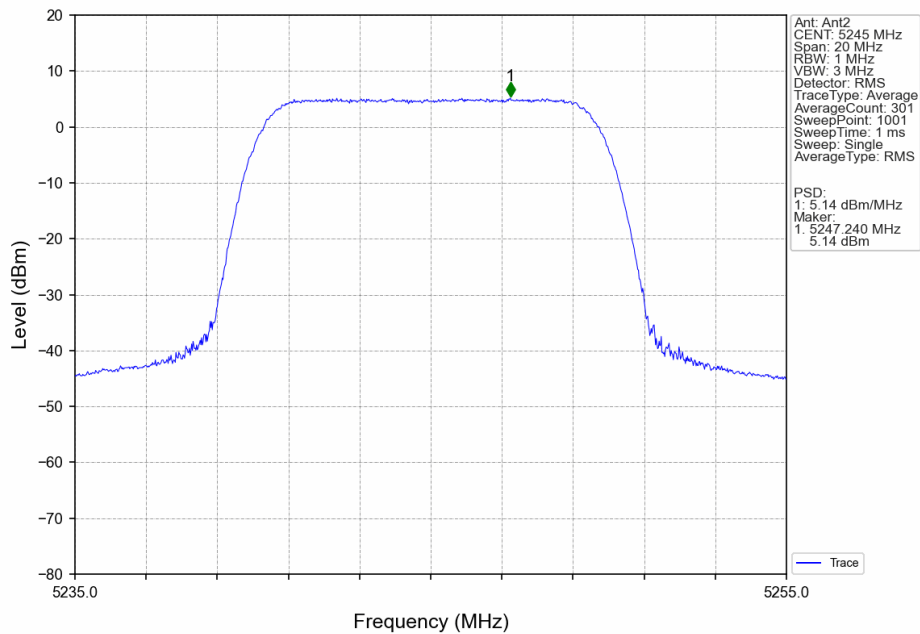
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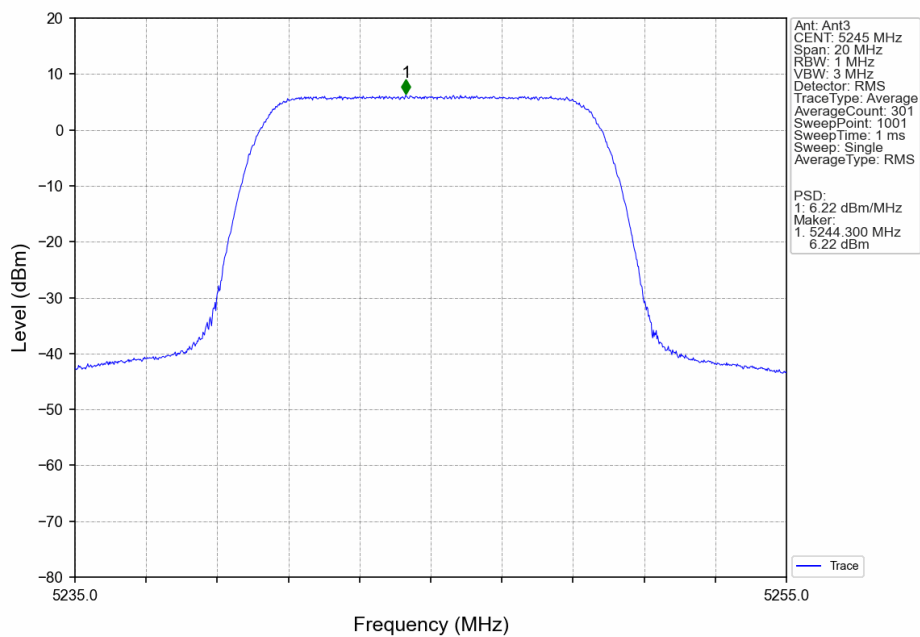
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10M_HCH_5245MHz_Ant2_NTNV



10M_HCH_5245MHz_Ant3_NTNV



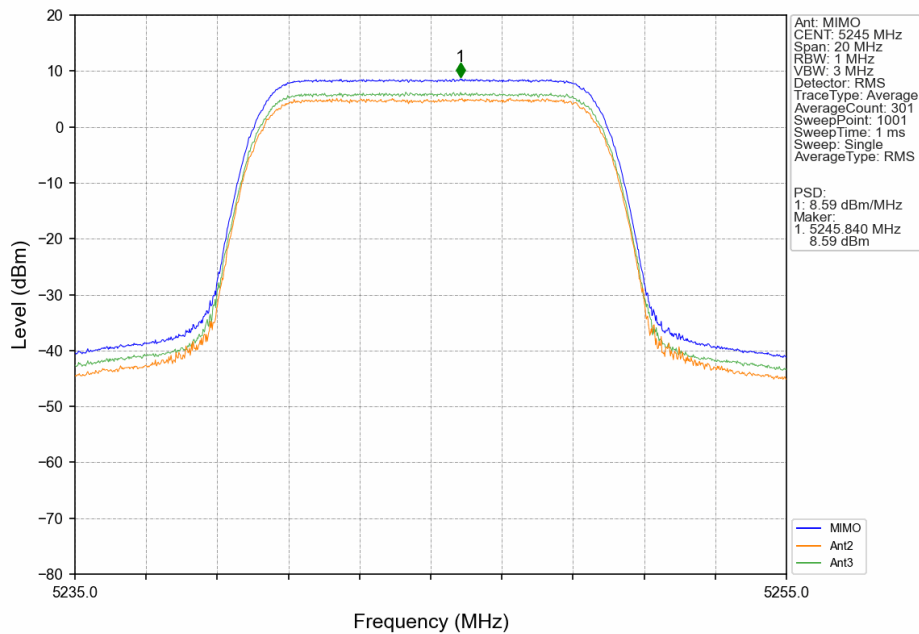
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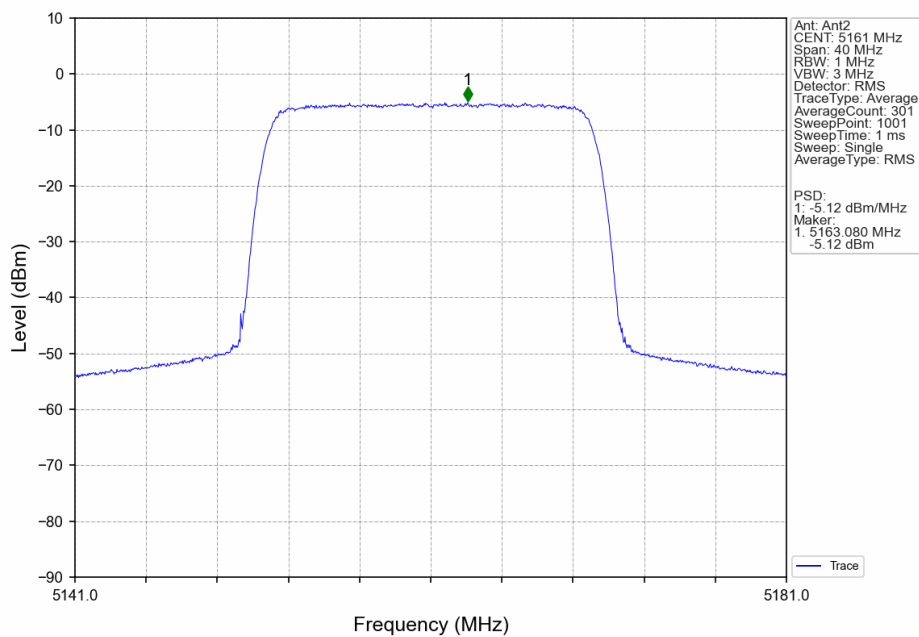
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10M_HCH_5245MHz_MIMO_NTNV



20M_LCH_5161MHz_Ant2_NTNV



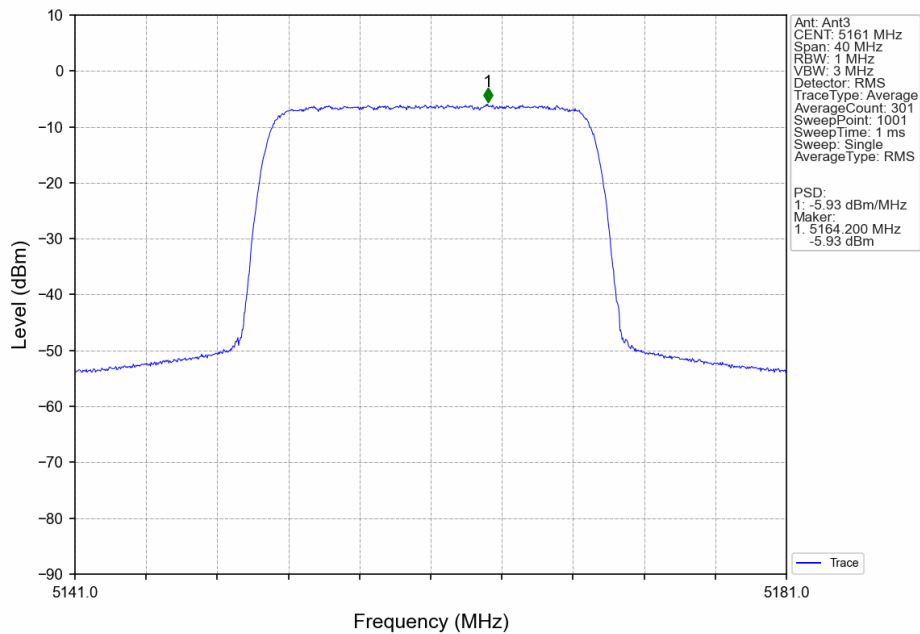
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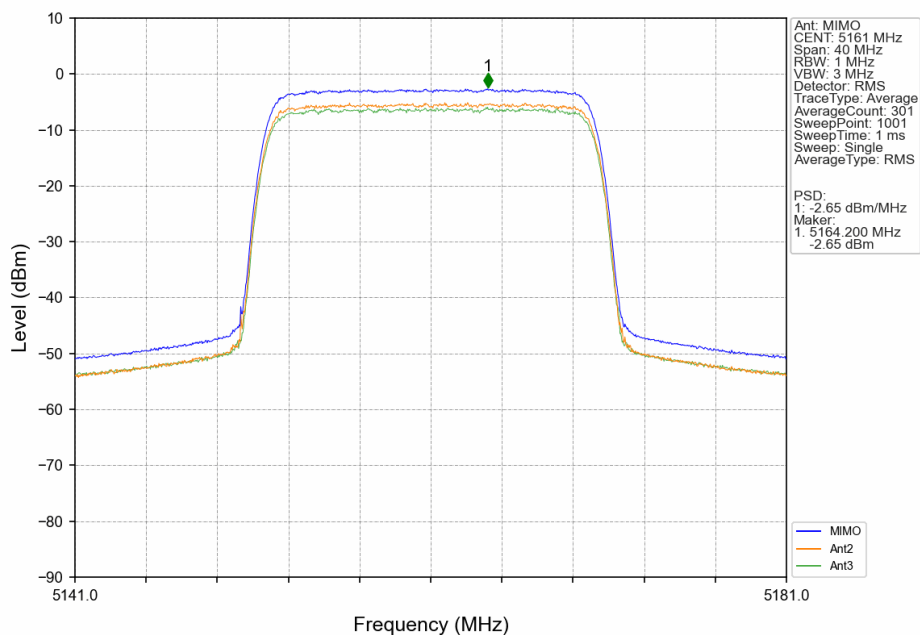
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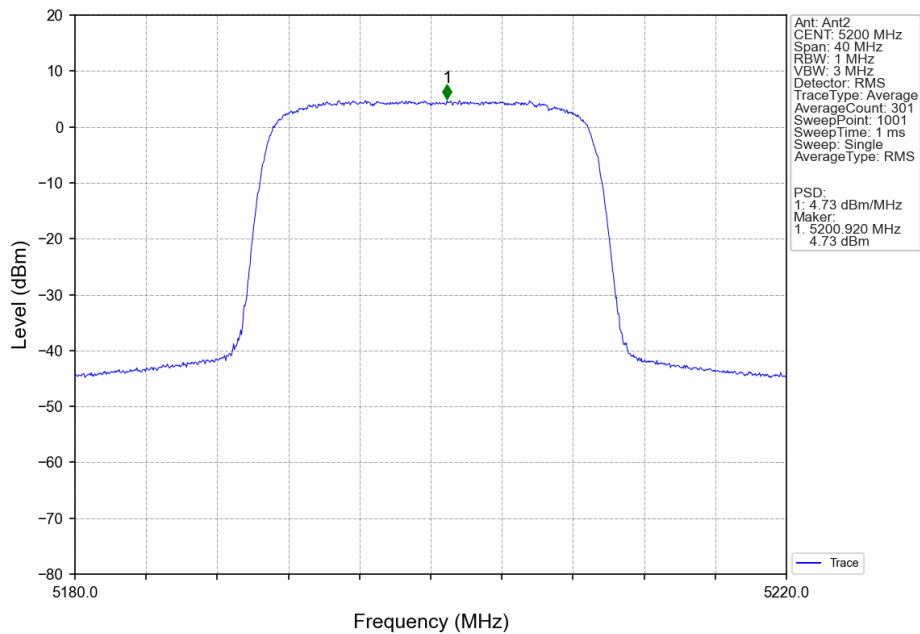
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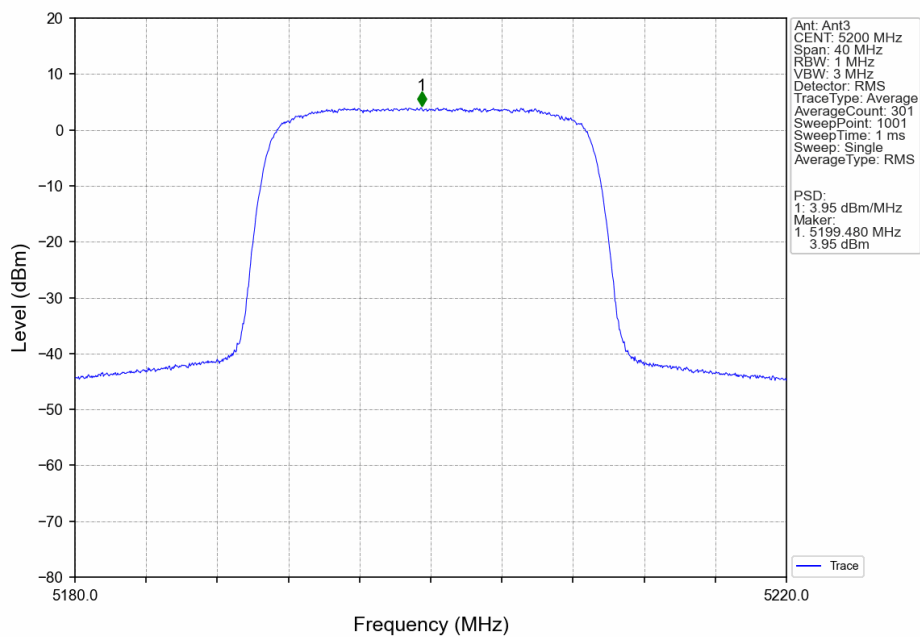
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20M_MCH_5200MHz_Ant2_NTNV



20M_MCH_5200MHz_Ant3_NTNV



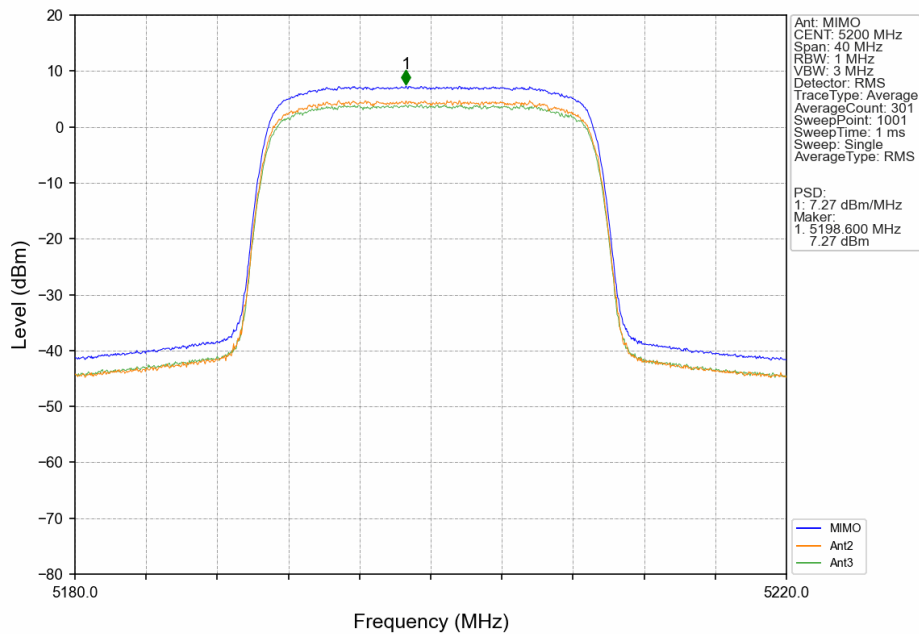
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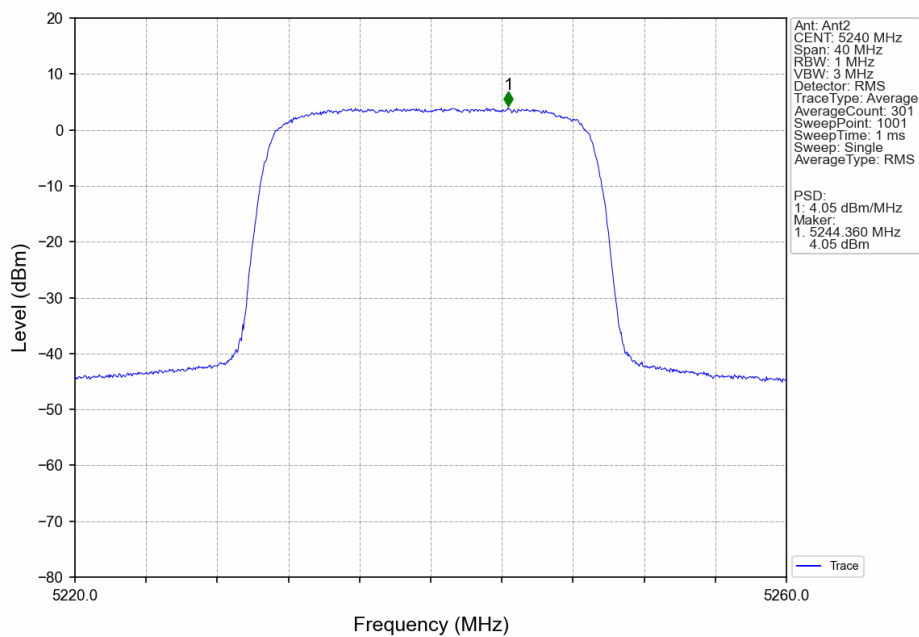
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20M_MCH_5200MHz_MIMO_NTNV



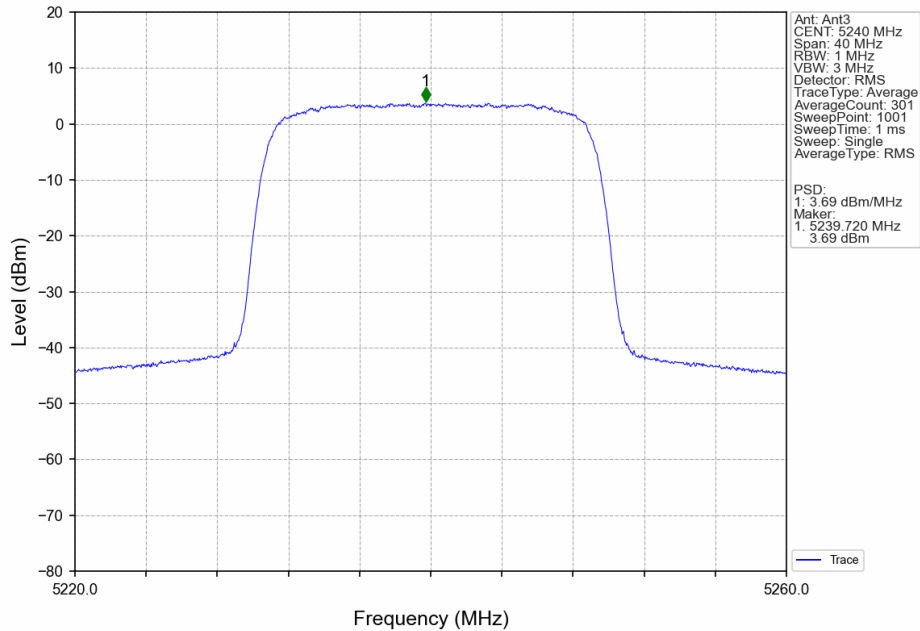
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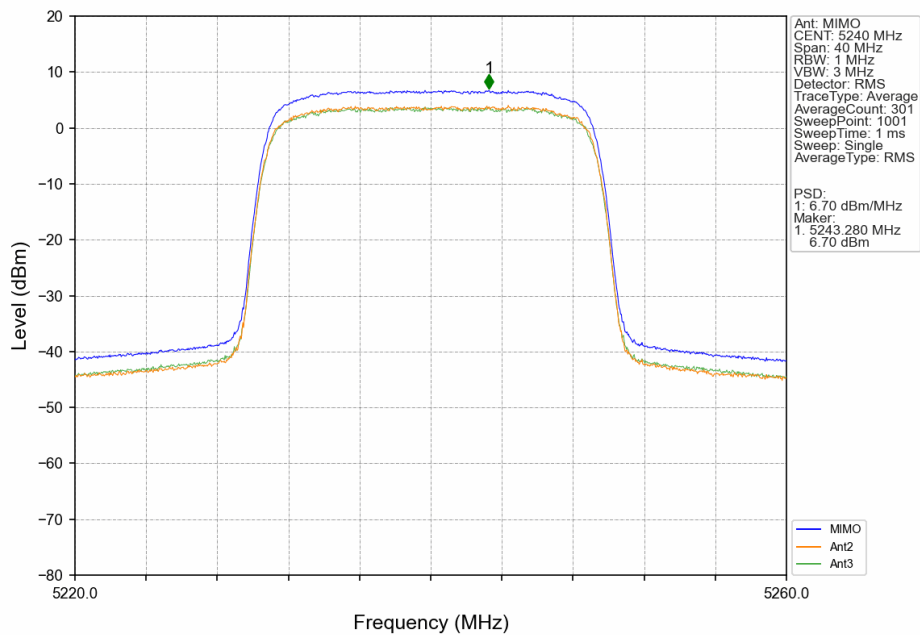
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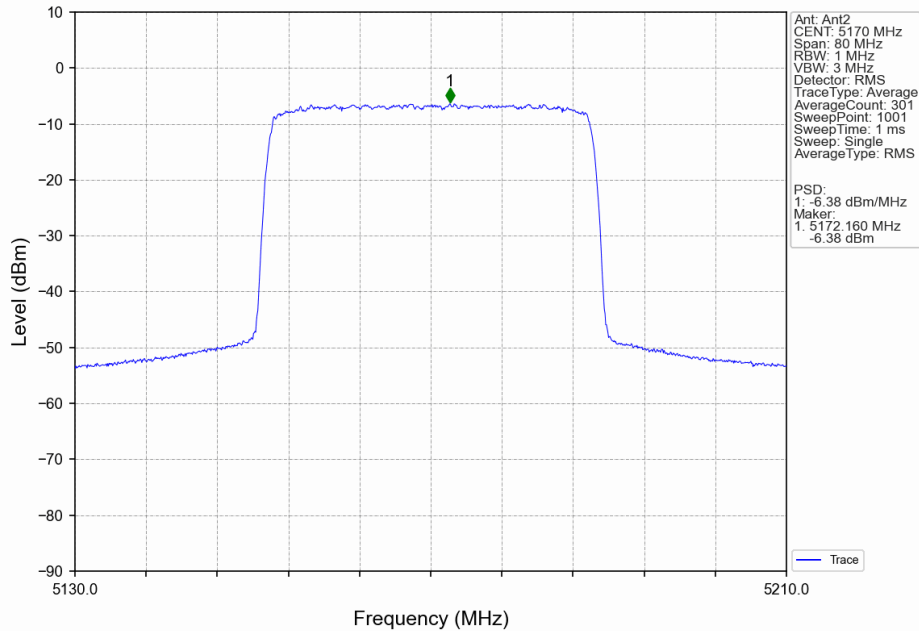
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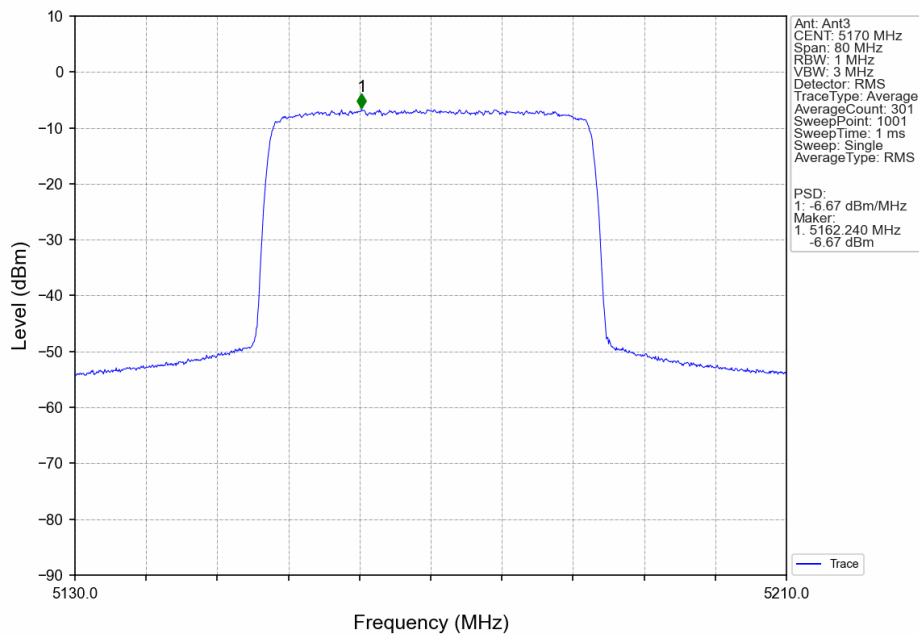
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40M_LCH_5170MHz_Ant2_NTNV



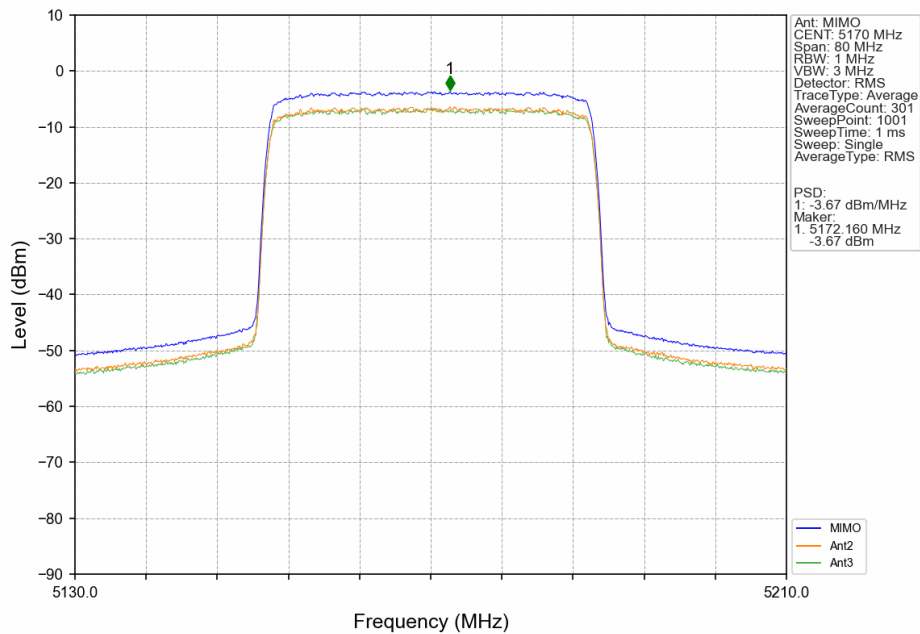
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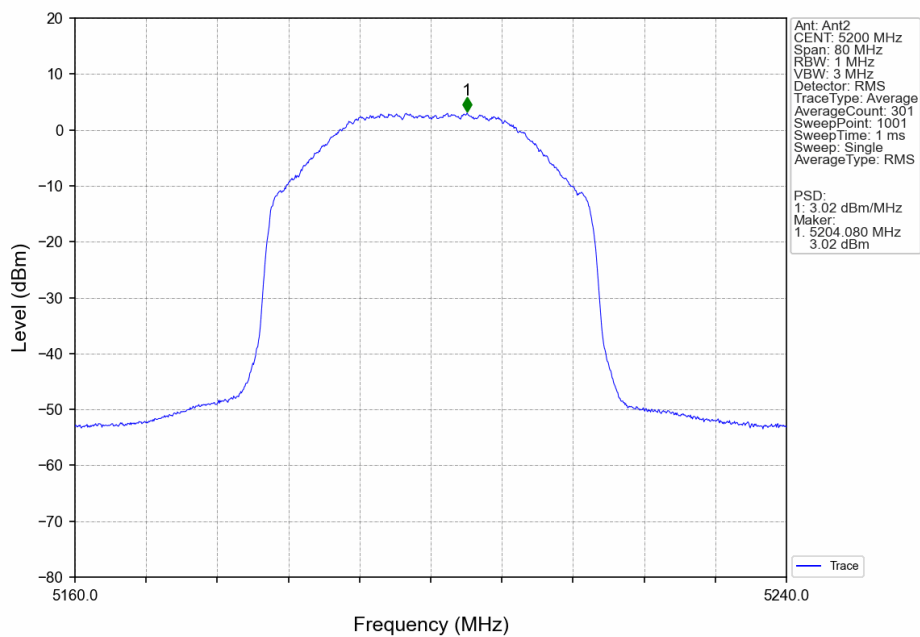
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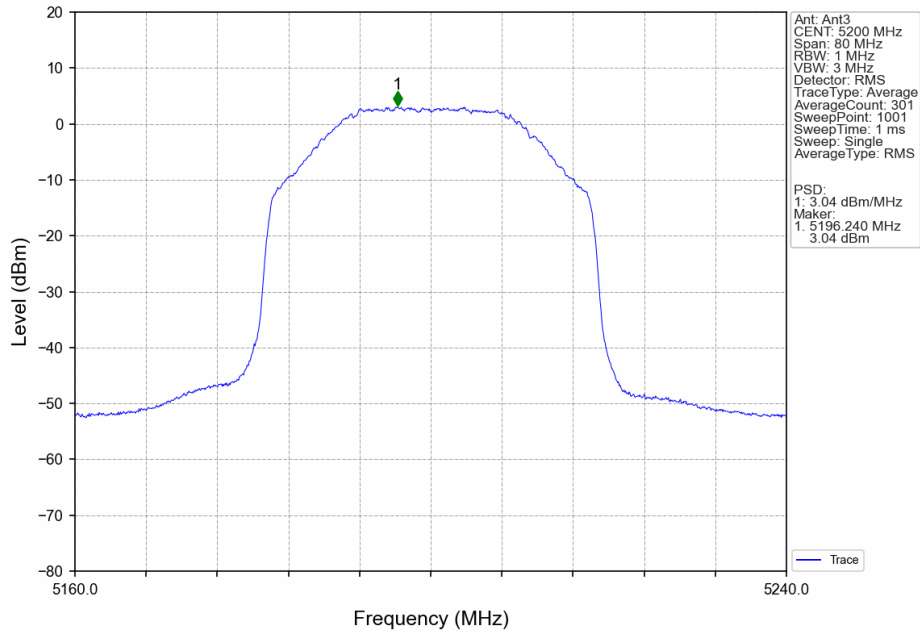
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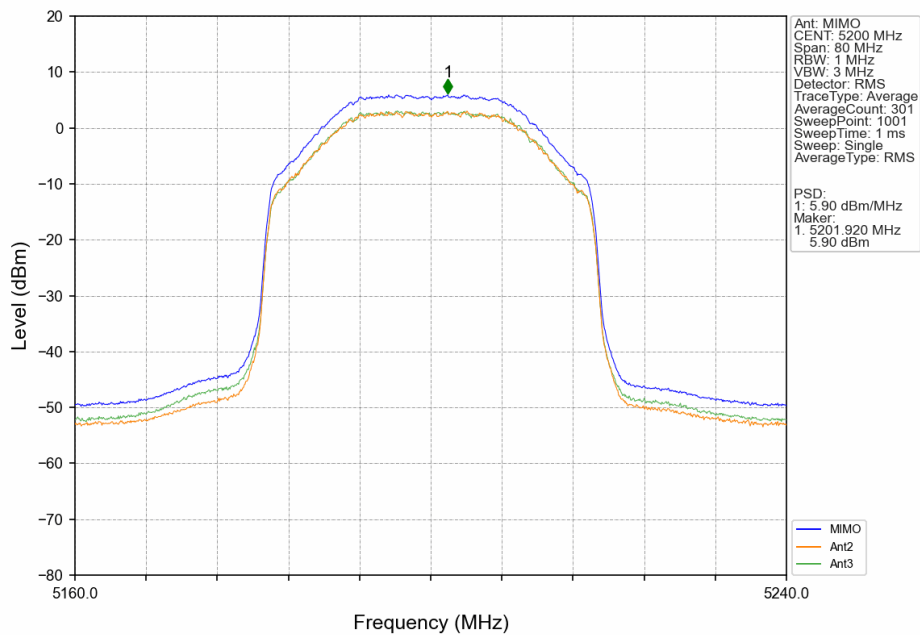
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40M_MCH_5200MHz_Ant3_NTNV



40M_MCH_5200MHz_MIMO_NTNV



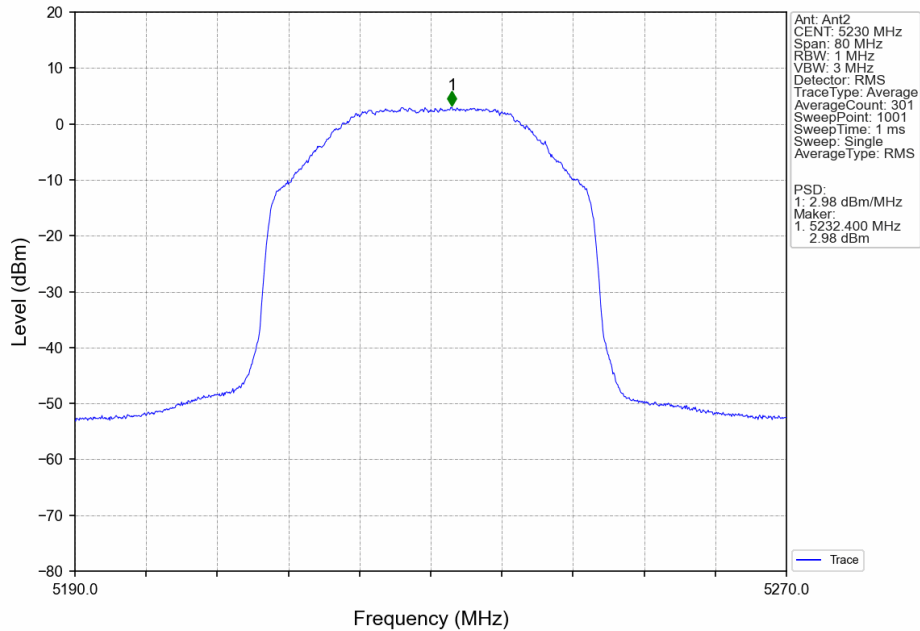
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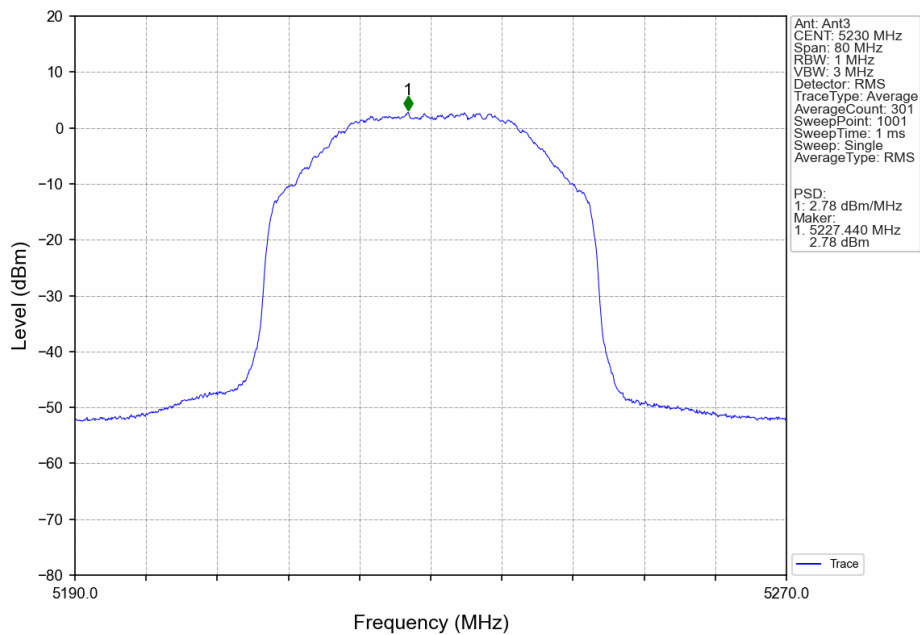
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40M_HCH_5230MHz_Ant2_NTNV



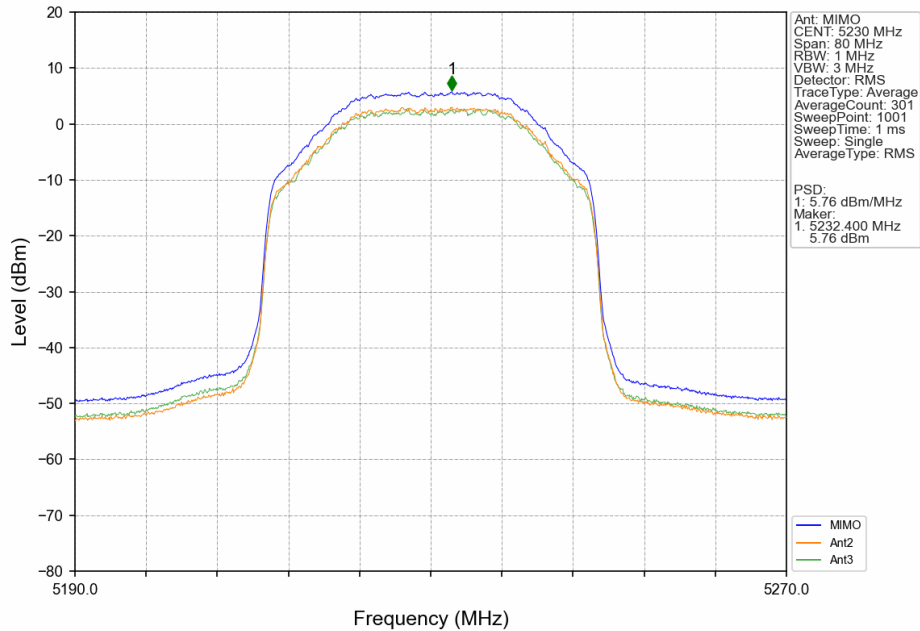
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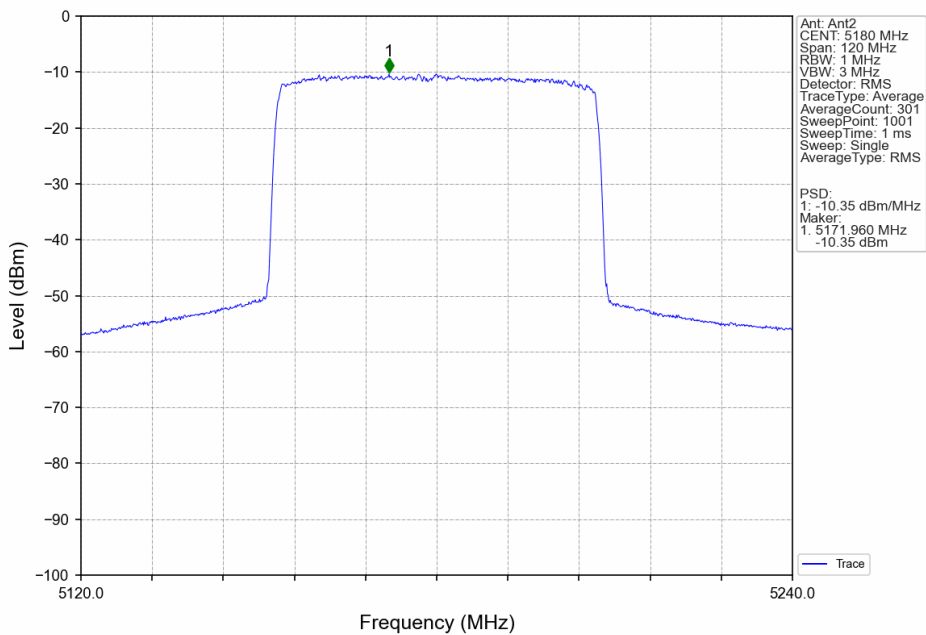
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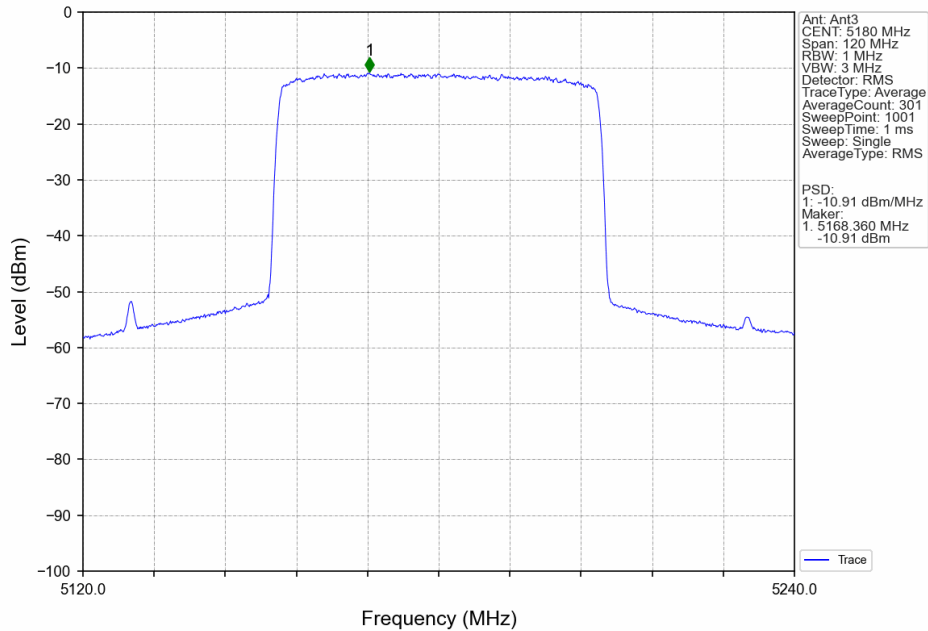
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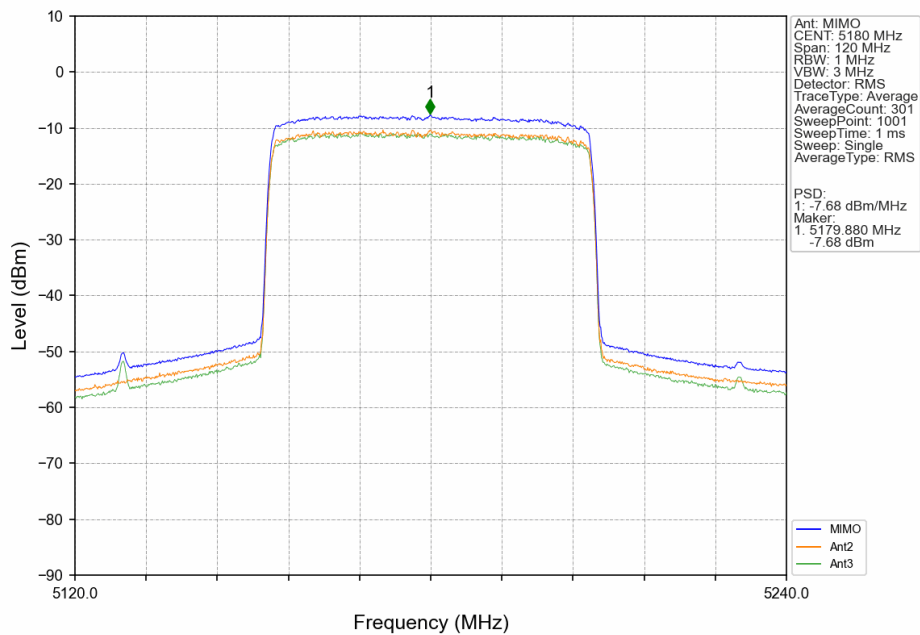
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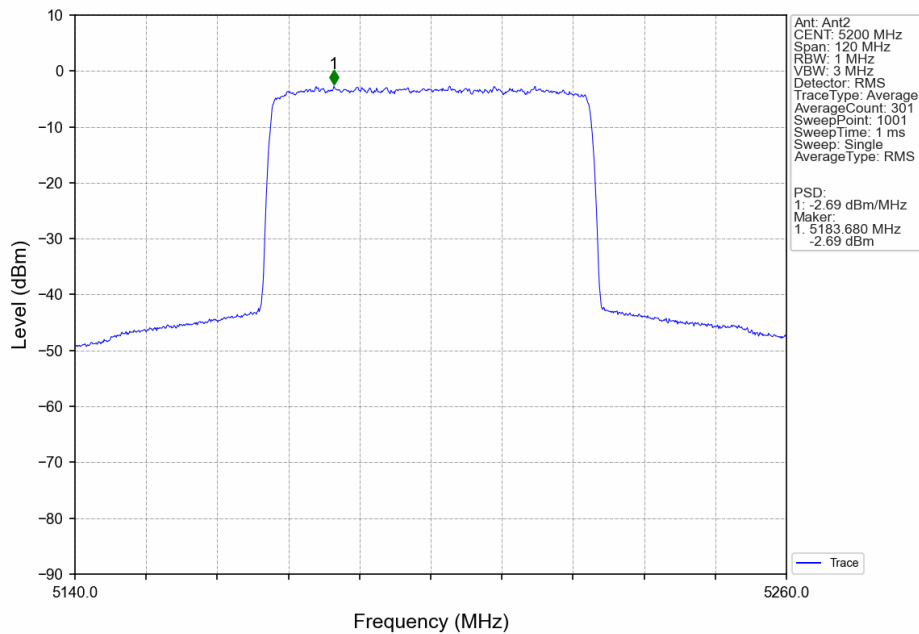
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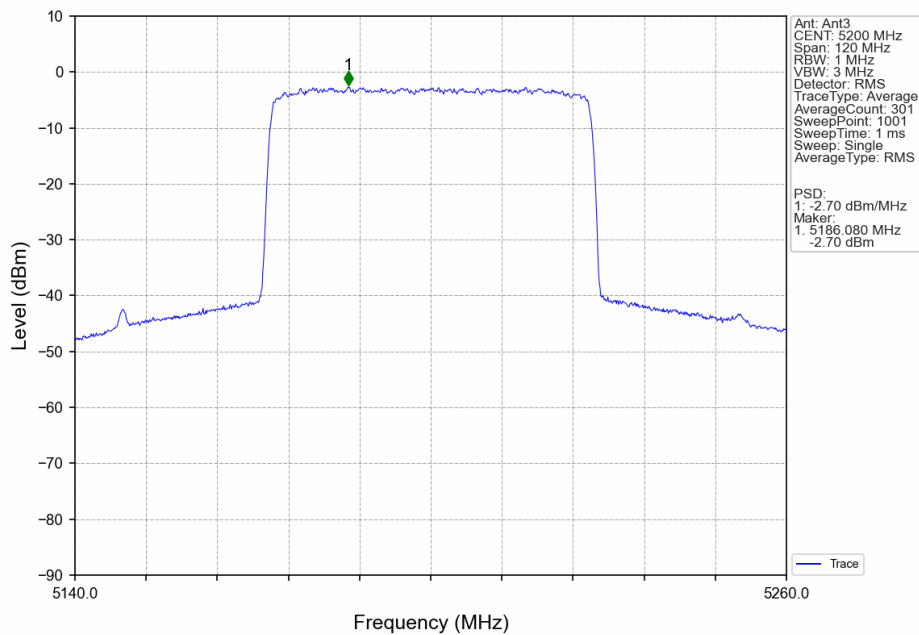
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60M_MCH_5200MHz_Ant2_NTNV



60M_MCH_5200MHz_Ant3_NTNV



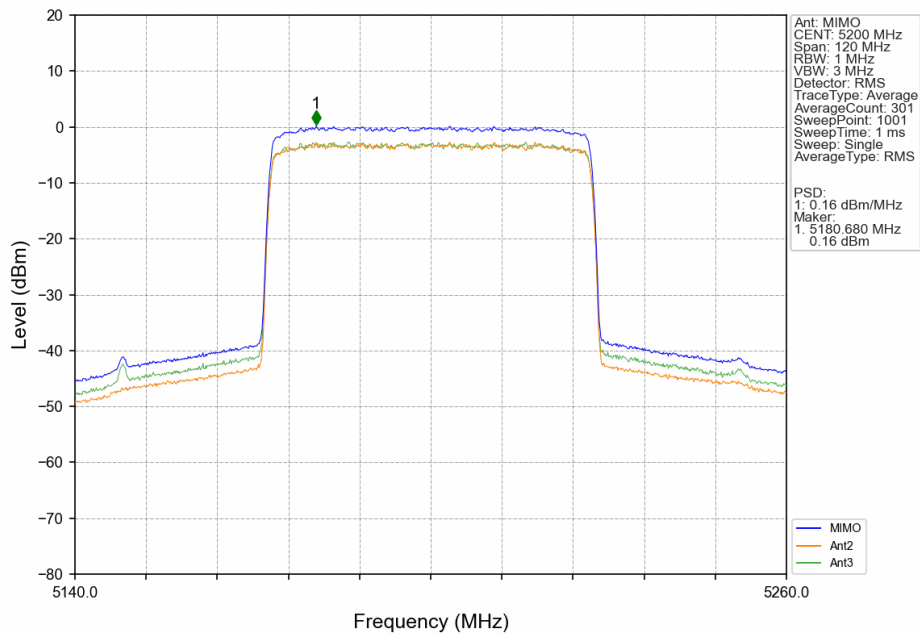
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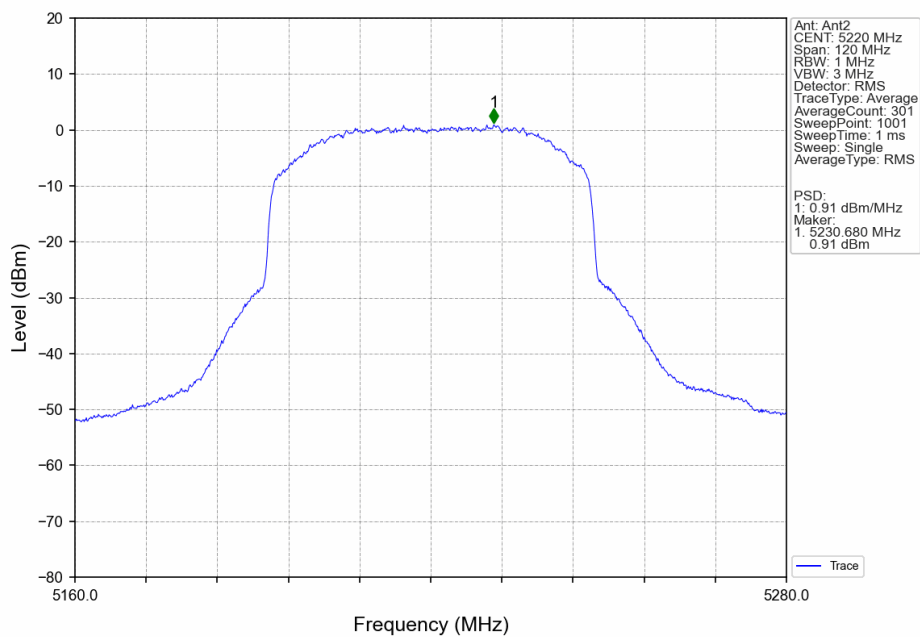
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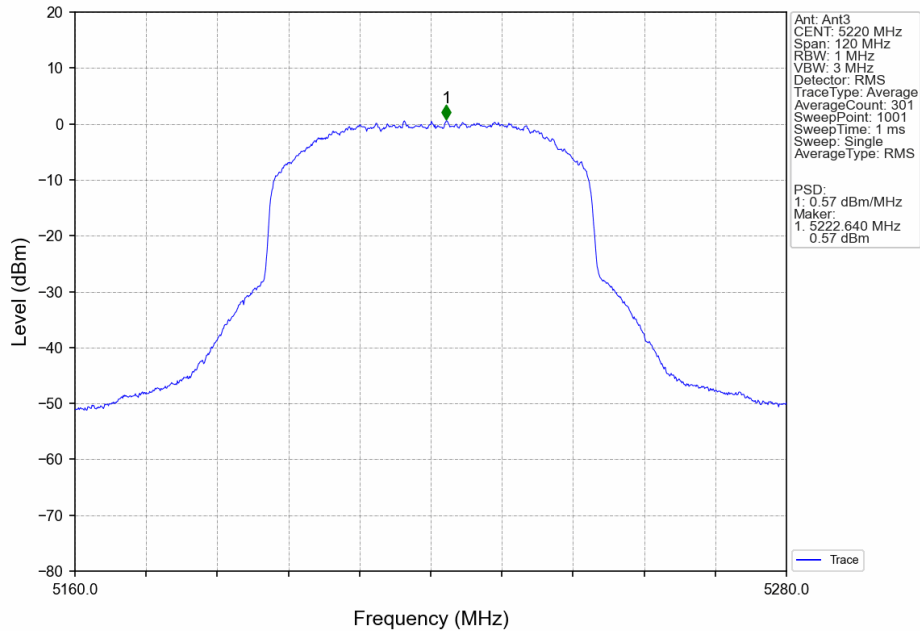
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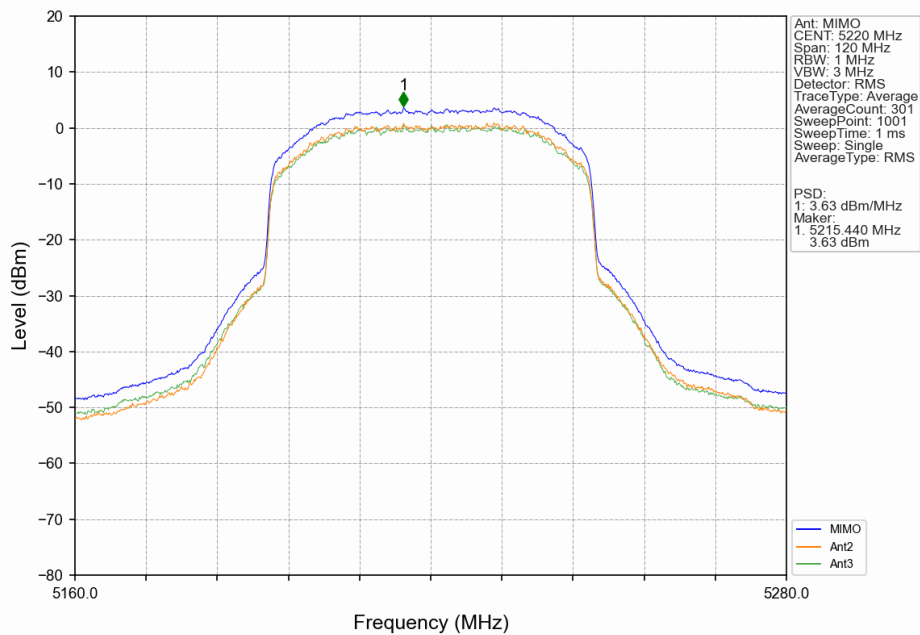
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60M_HCH_5220MHz_Ant3_NTNV



60M_HCH_5220MHz_MIMO_NTNV



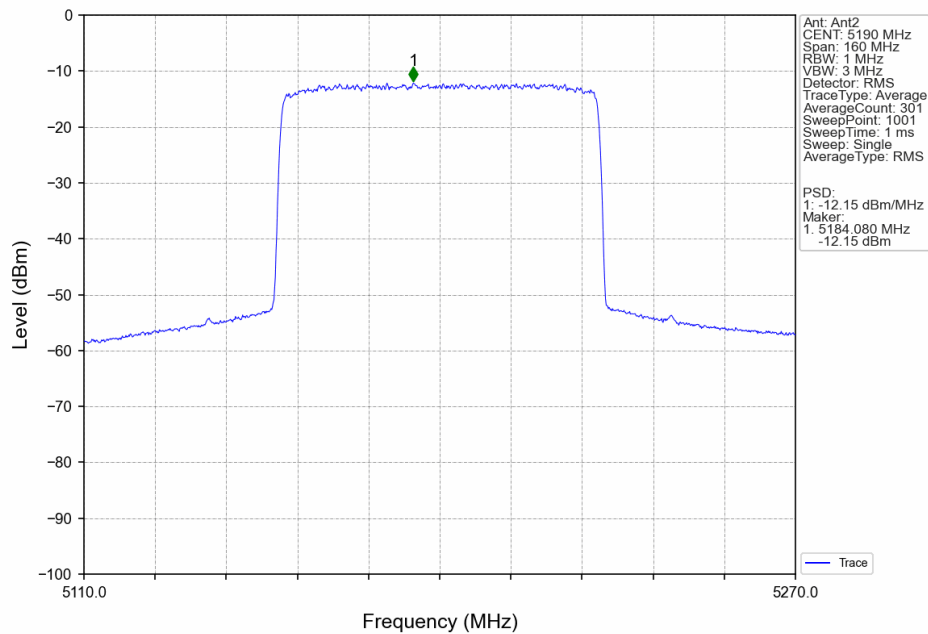
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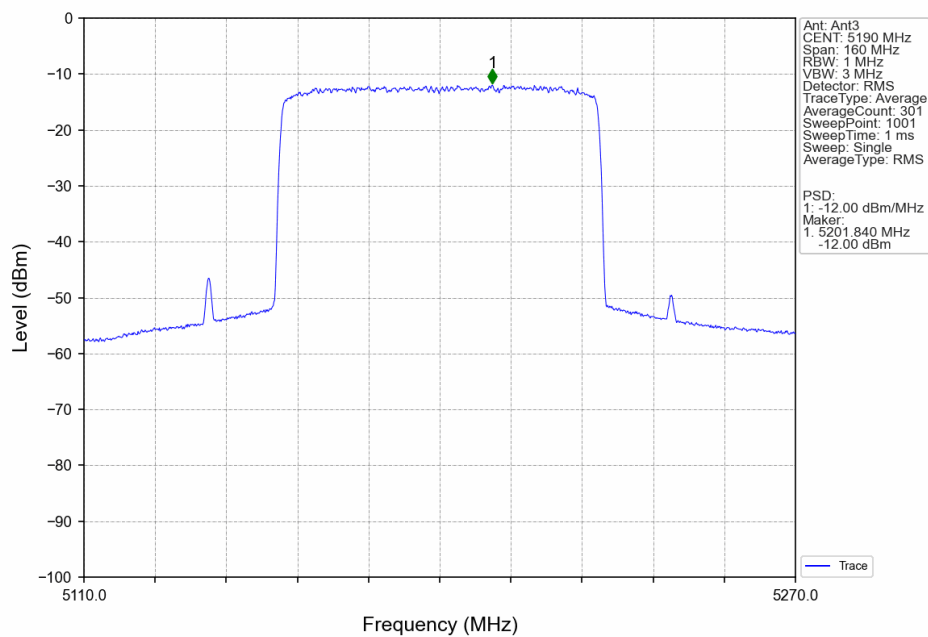
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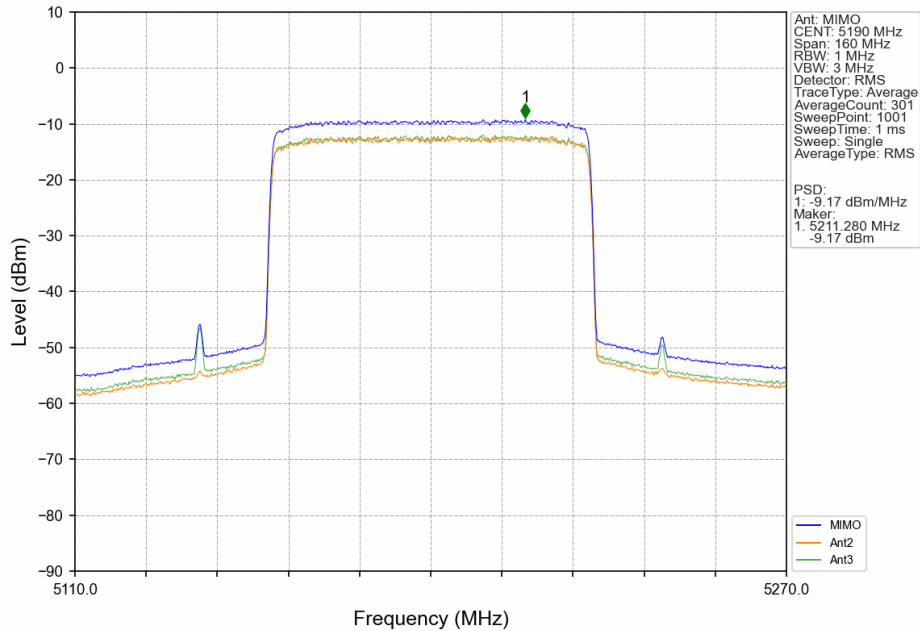
80M_LCH_5190MHz_Ant2_NTNV



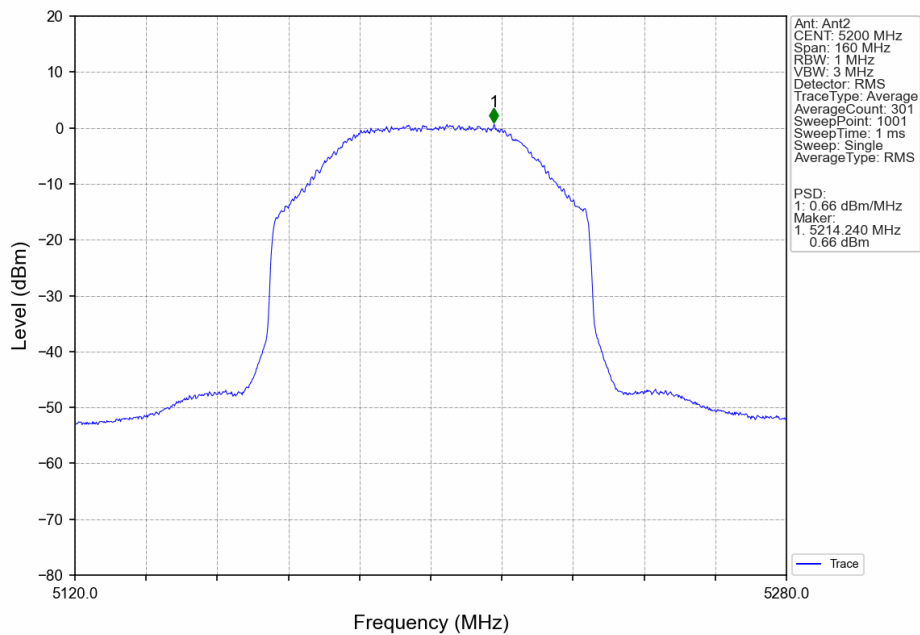
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80M_LCH_5190MHz_MIMO_NTNV



80M_MCH_5200MHz_Ant2_NTNV



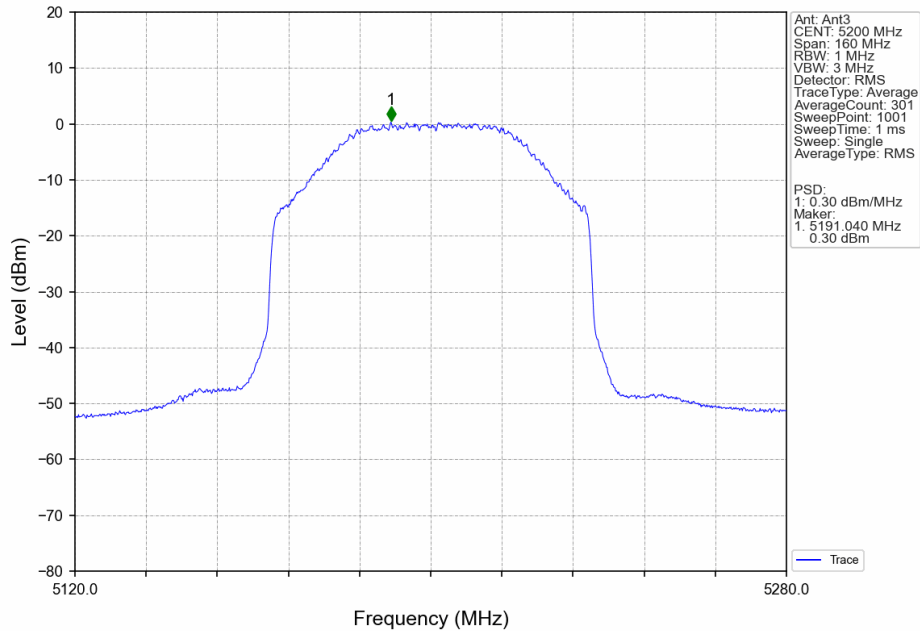
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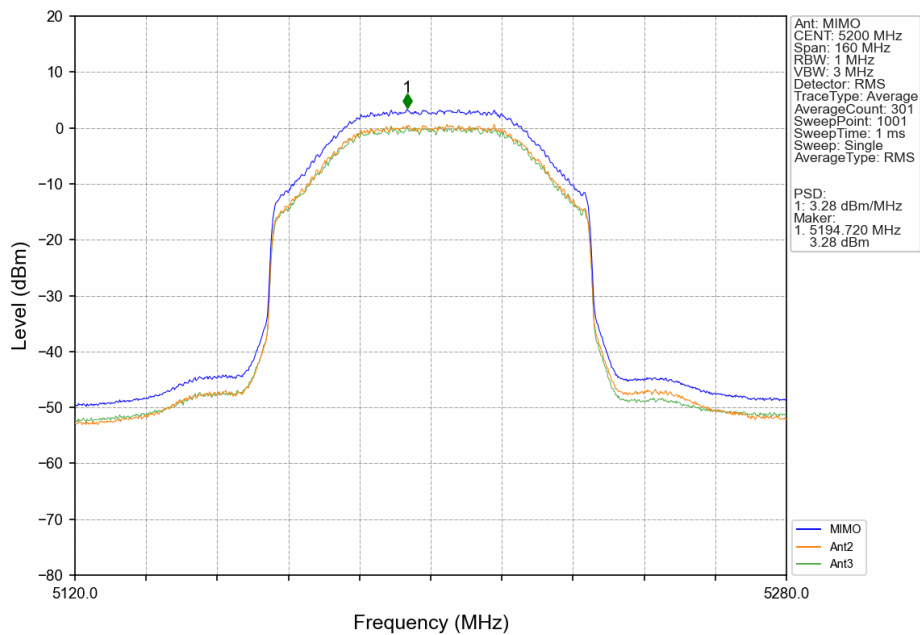
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80M_MCH_5200MHz_Ant3_NTNV



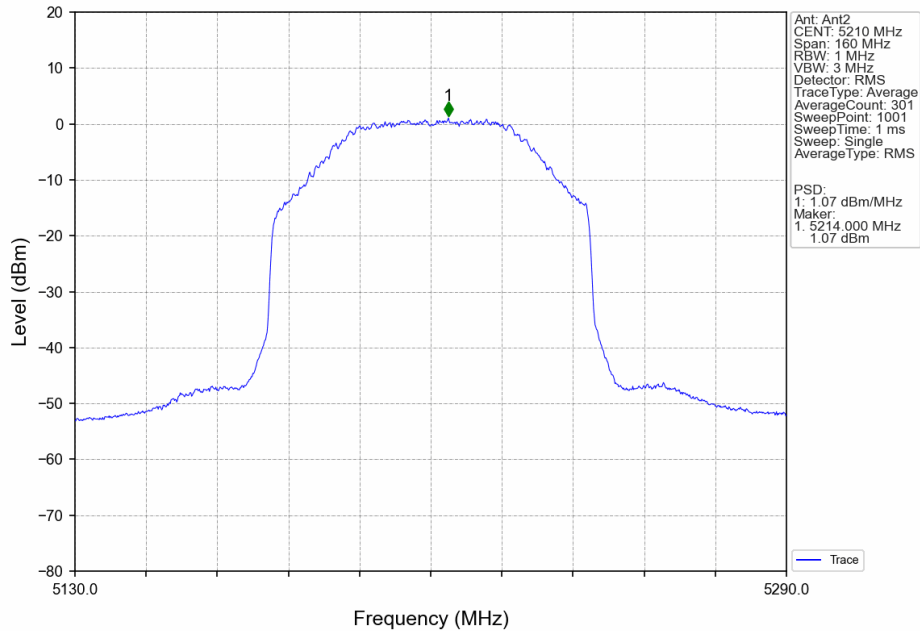
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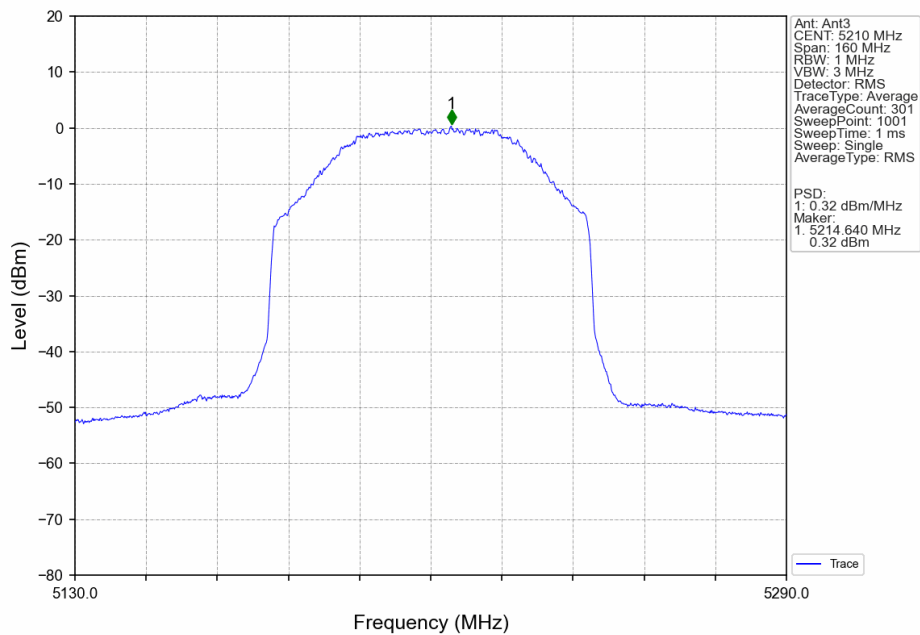
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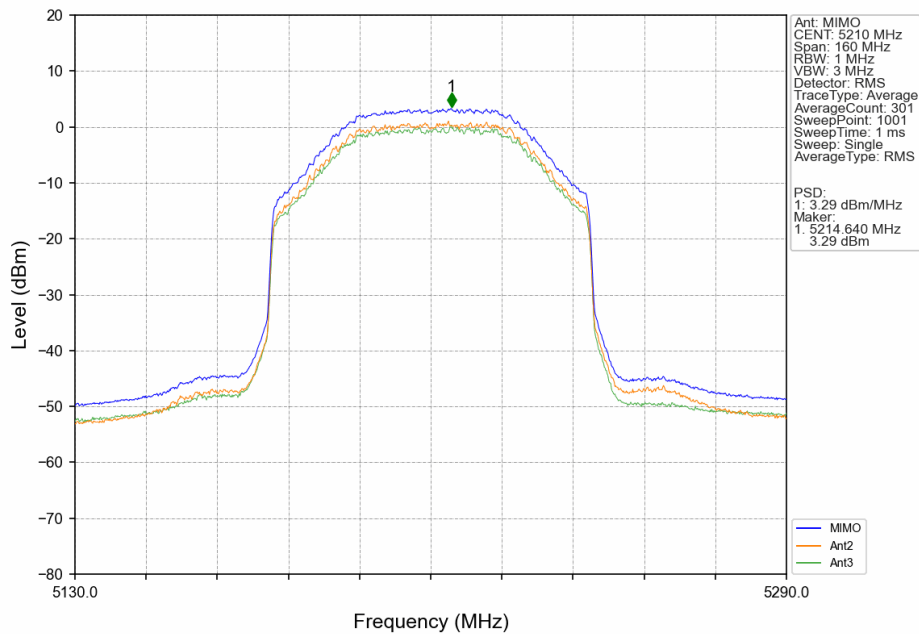
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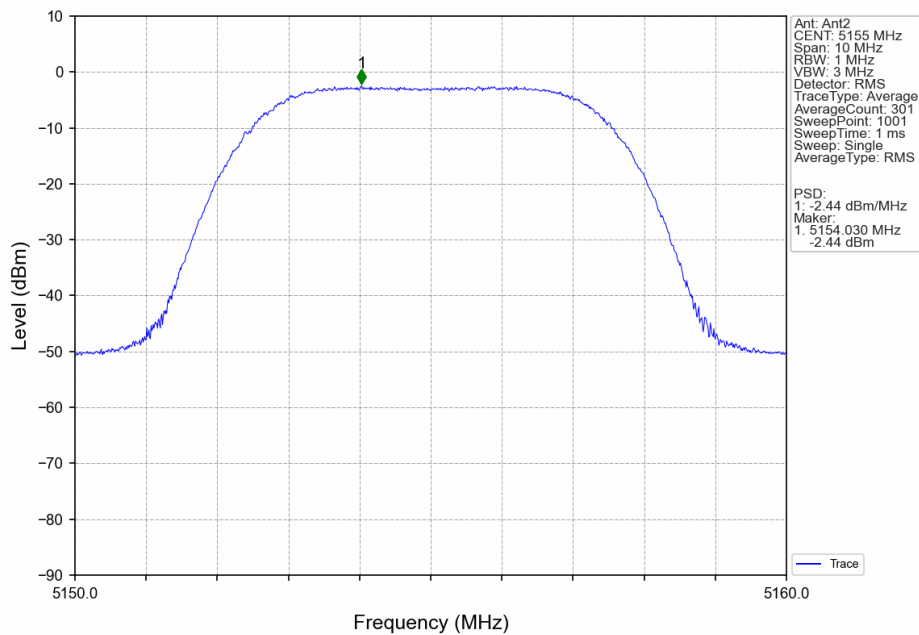
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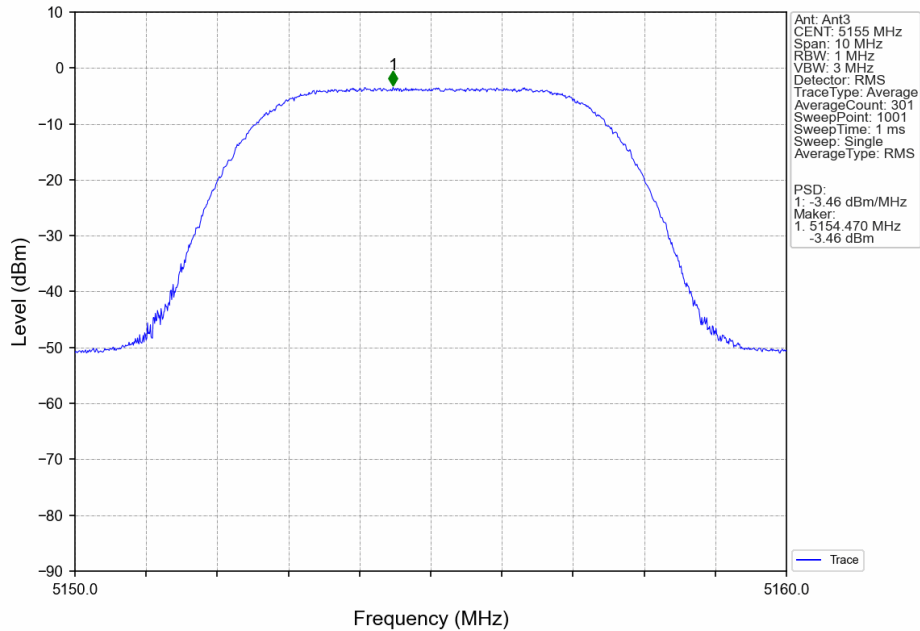
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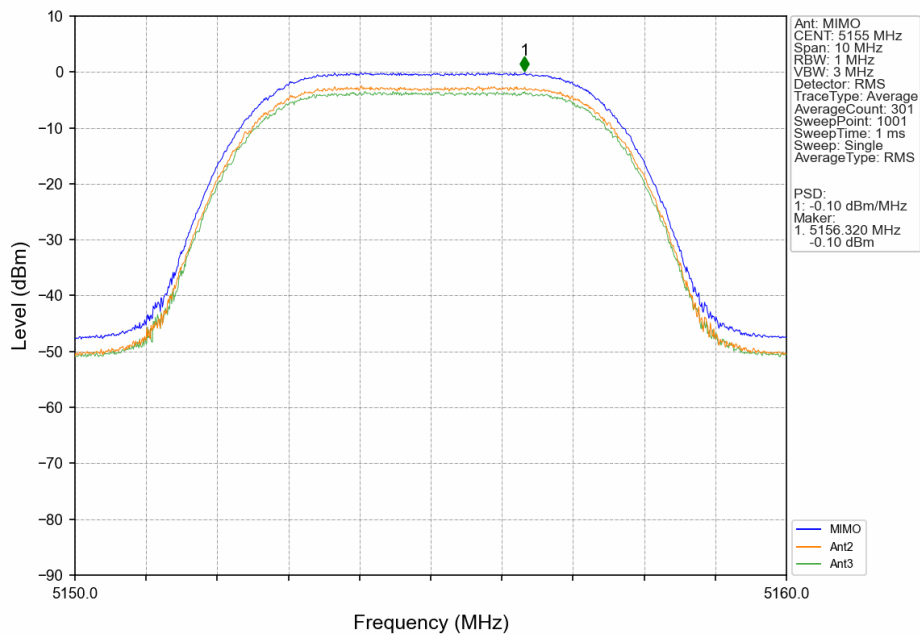
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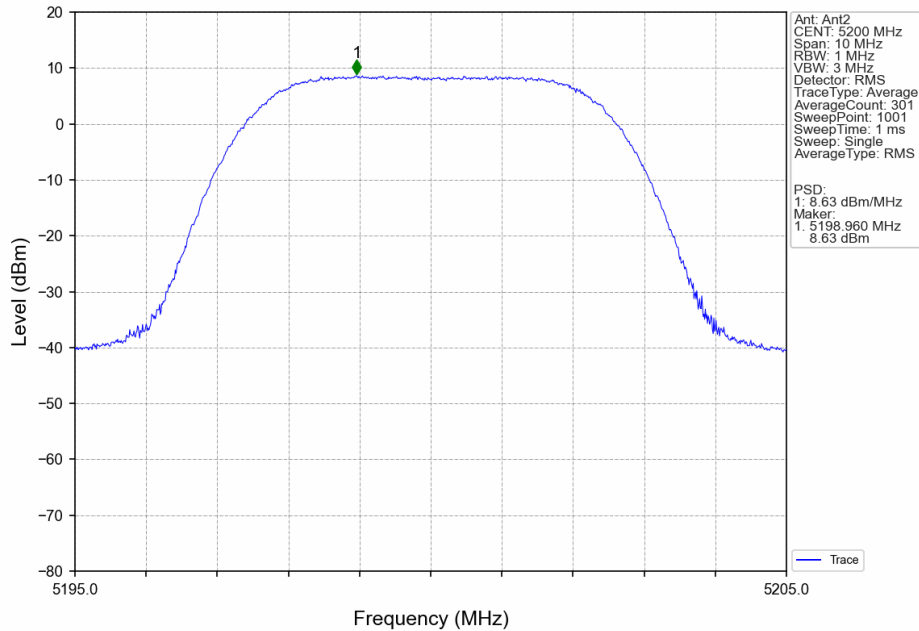
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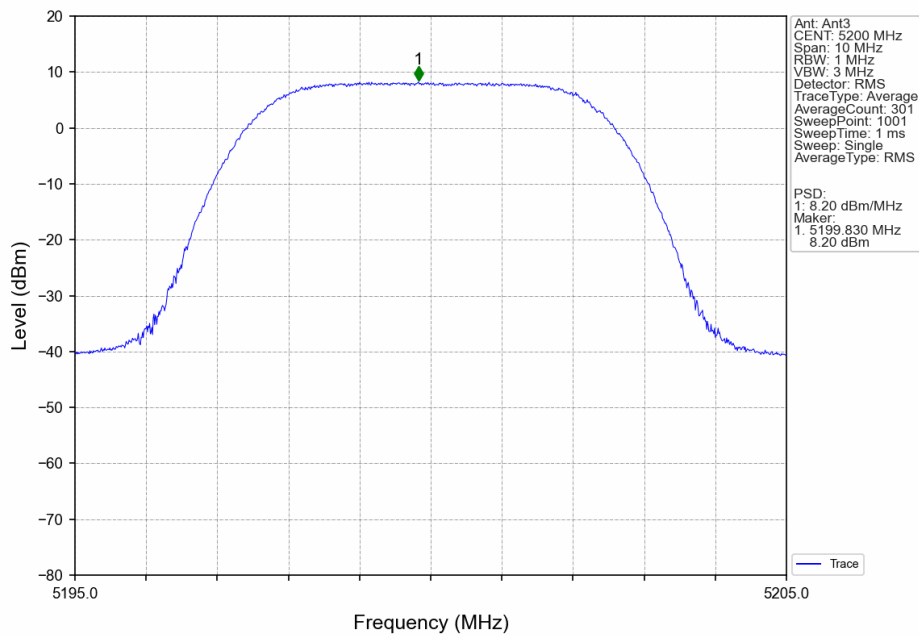
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5M_MCH_5200MHz_Ant2_NTNV



5M_MCH_5200MHz_Ant3_NTNV



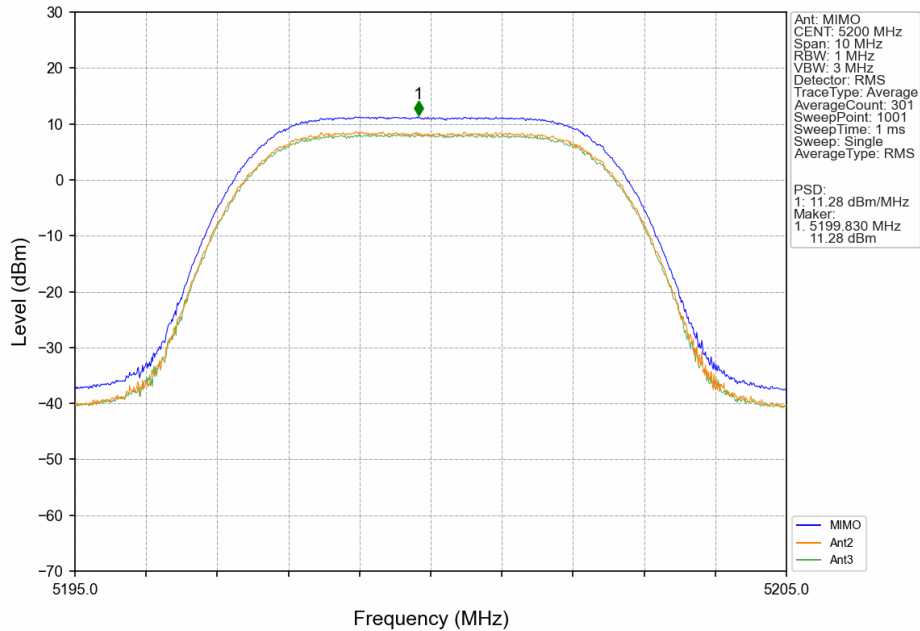
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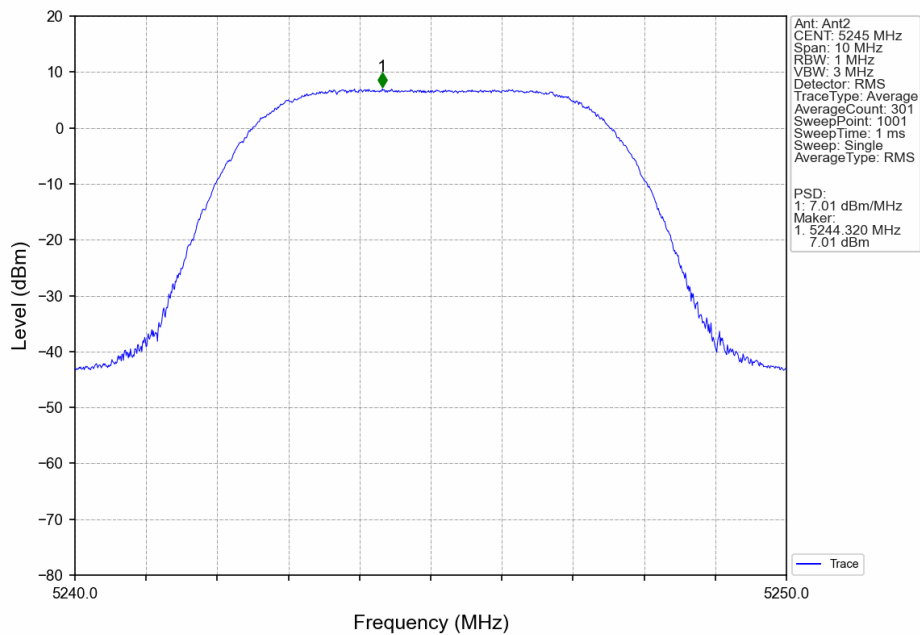
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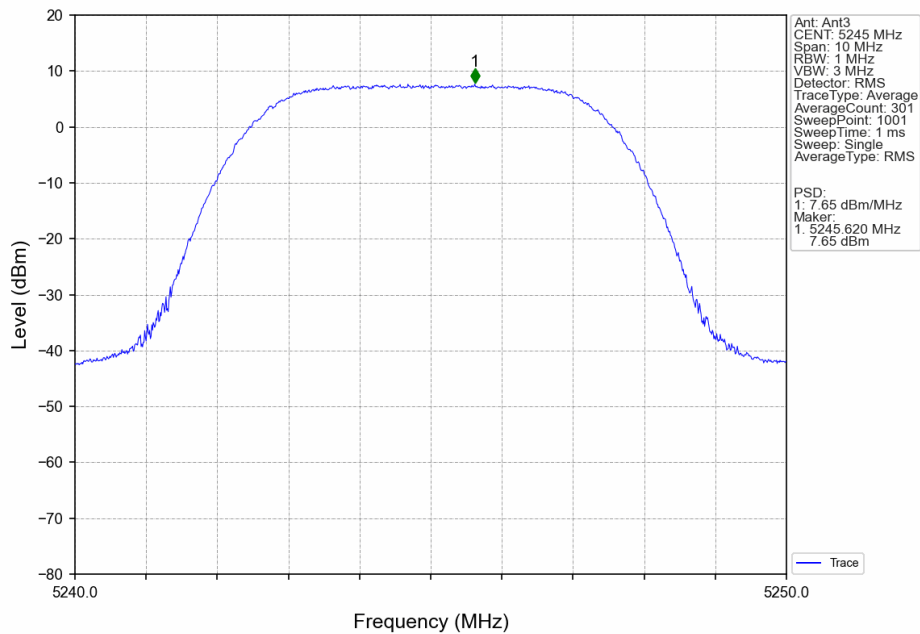
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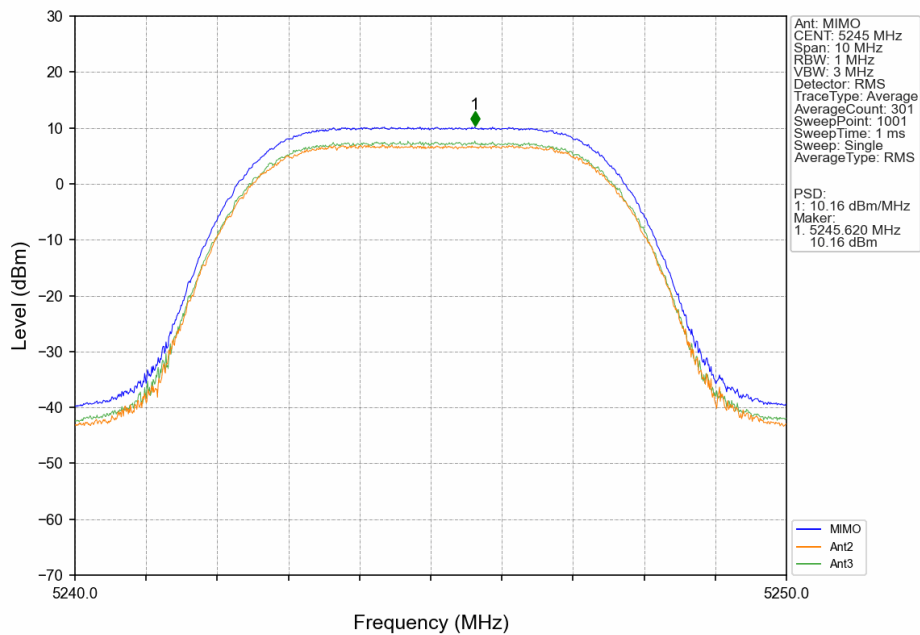
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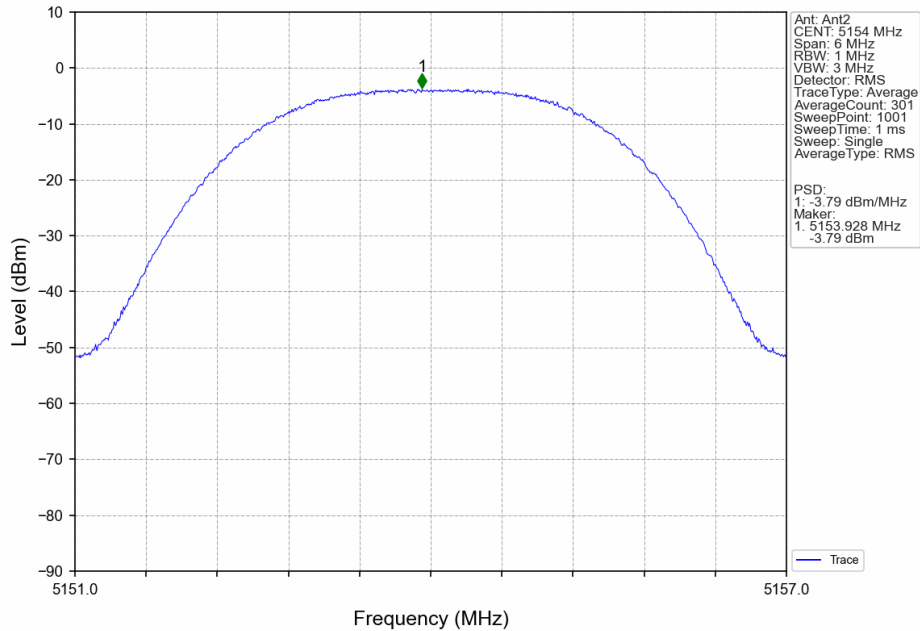
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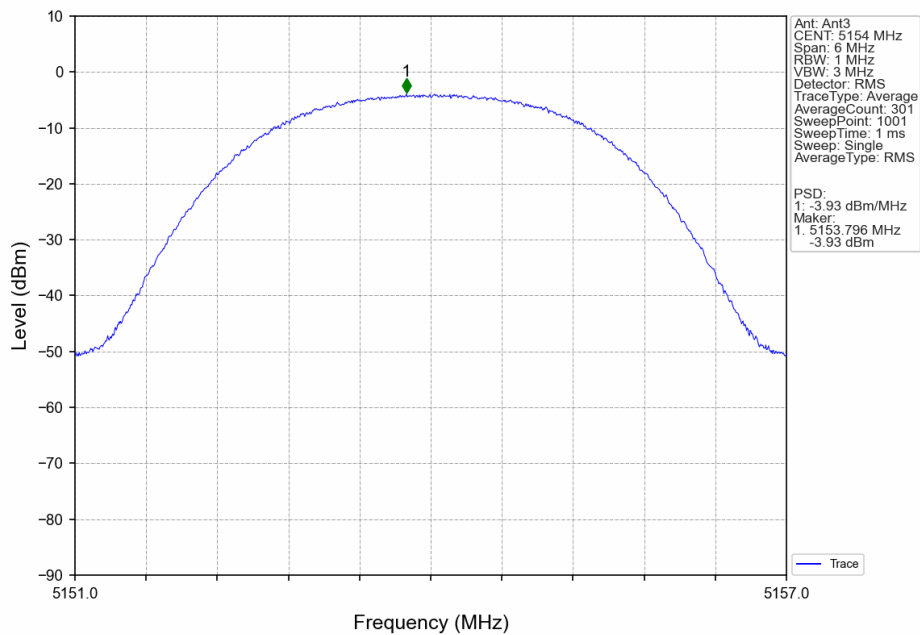
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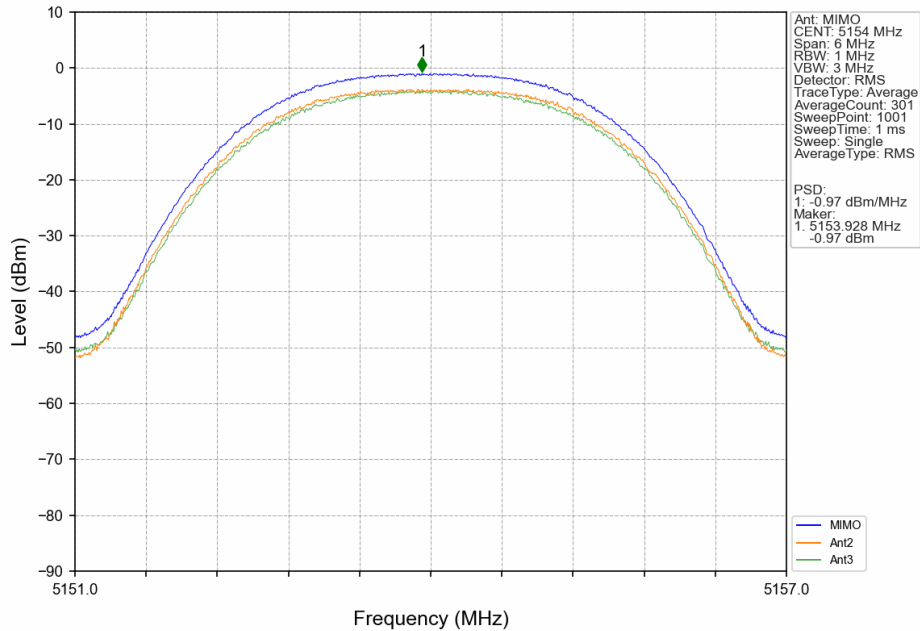
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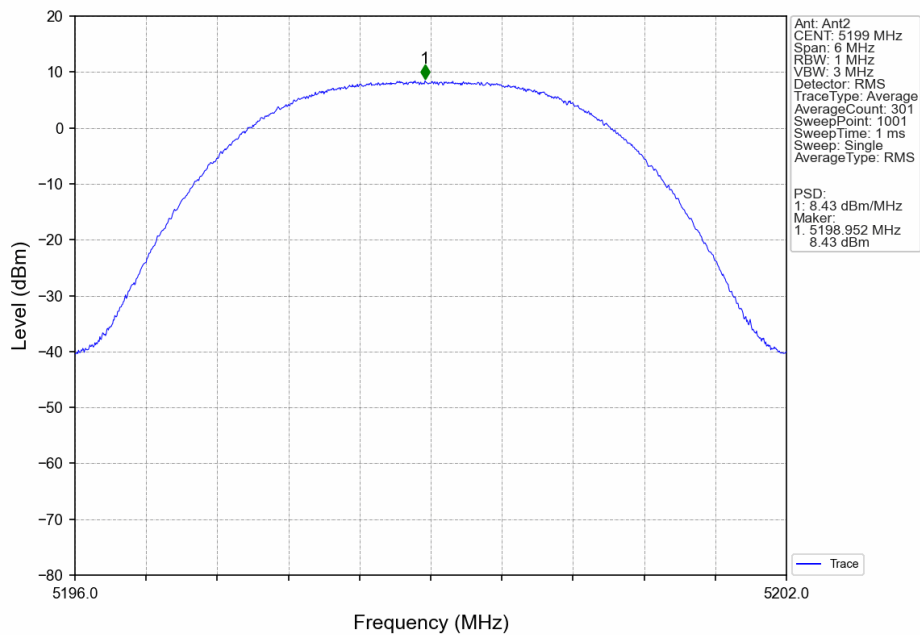
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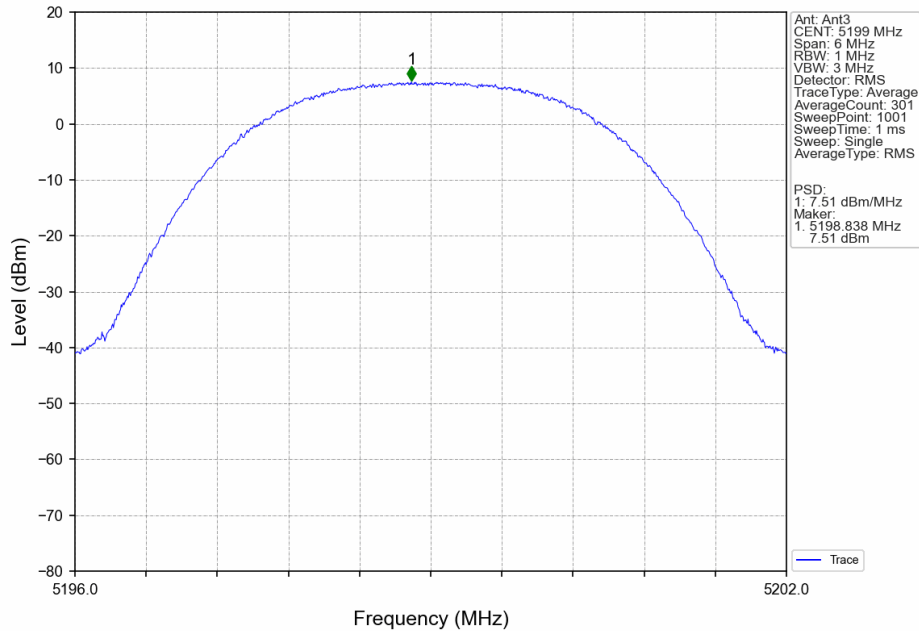
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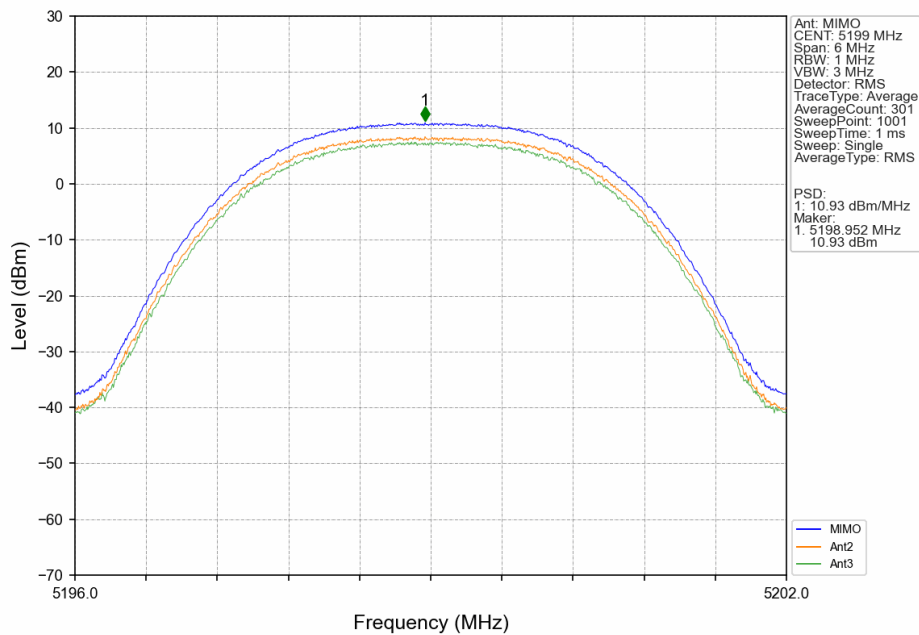
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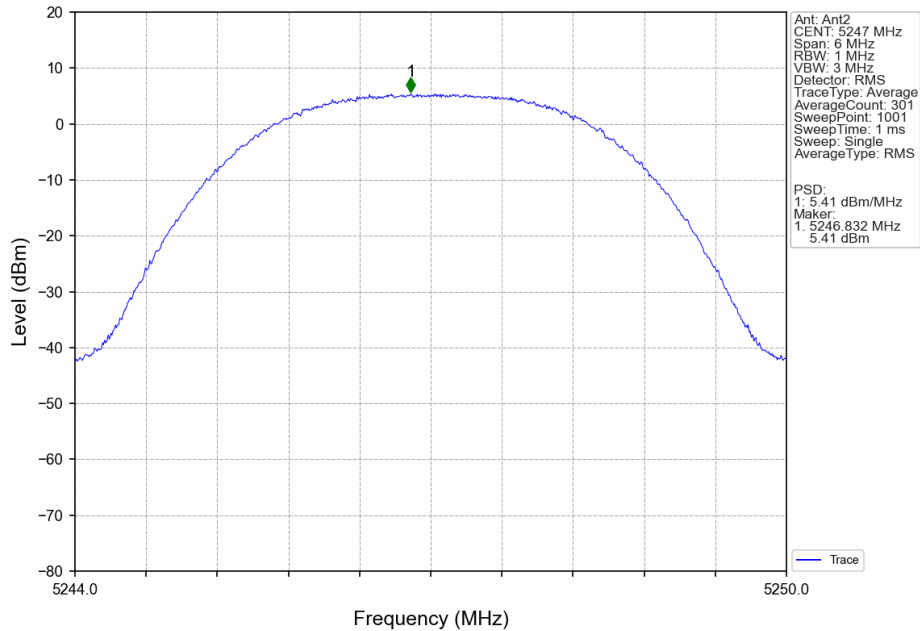
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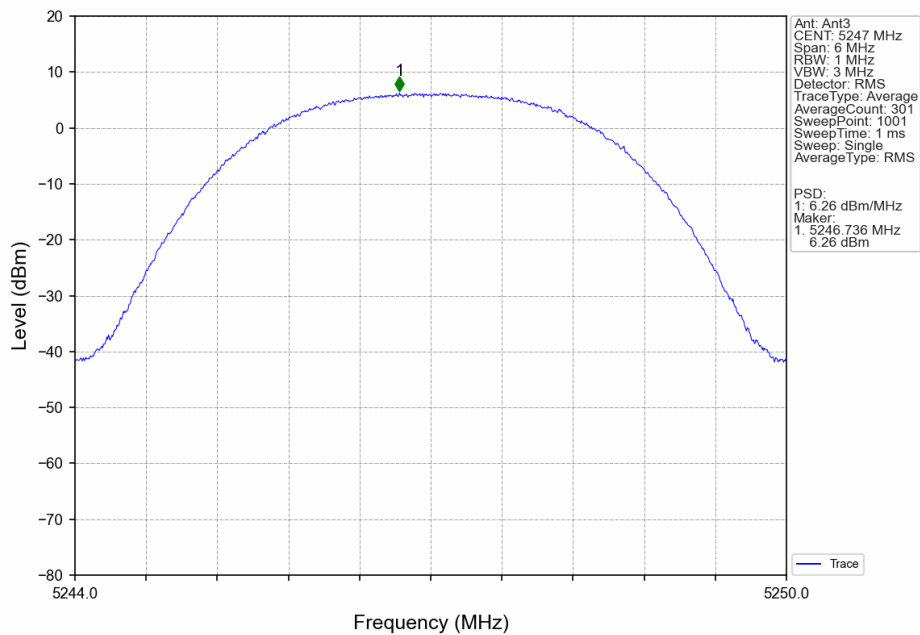
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3M_HCH_5247MHz_Ant2_NTNV



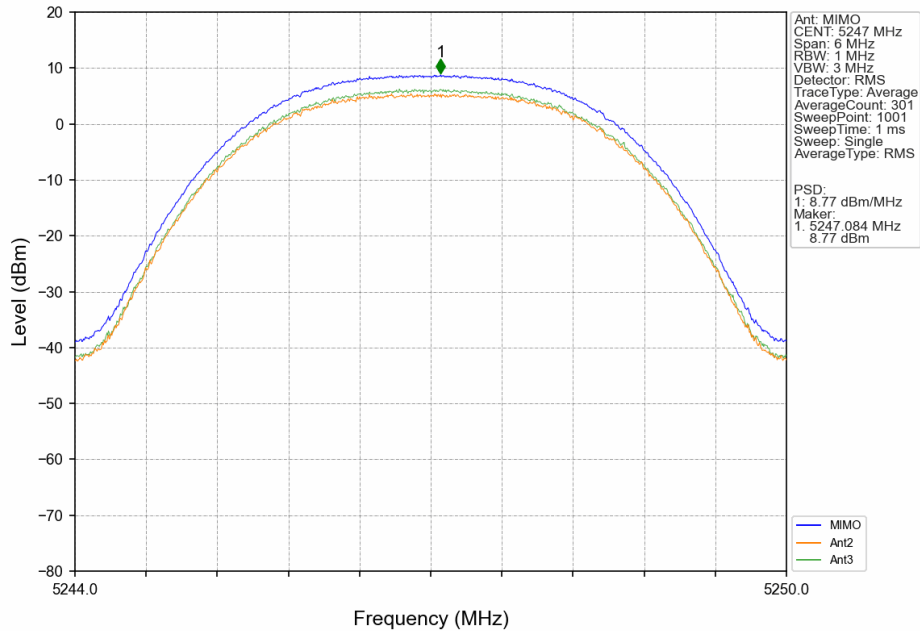
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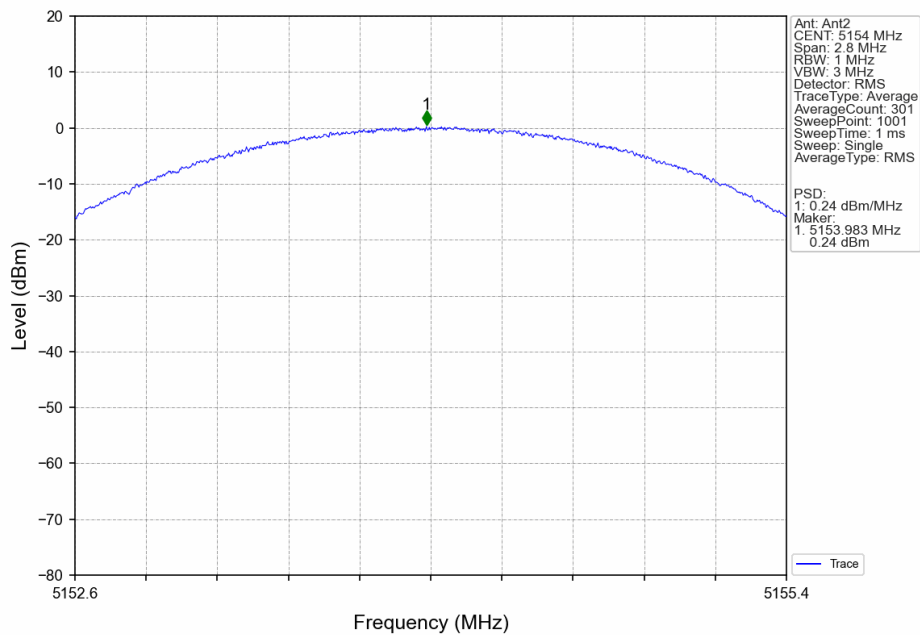
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3M_HCH_5247MHz_MIMO_NTNV



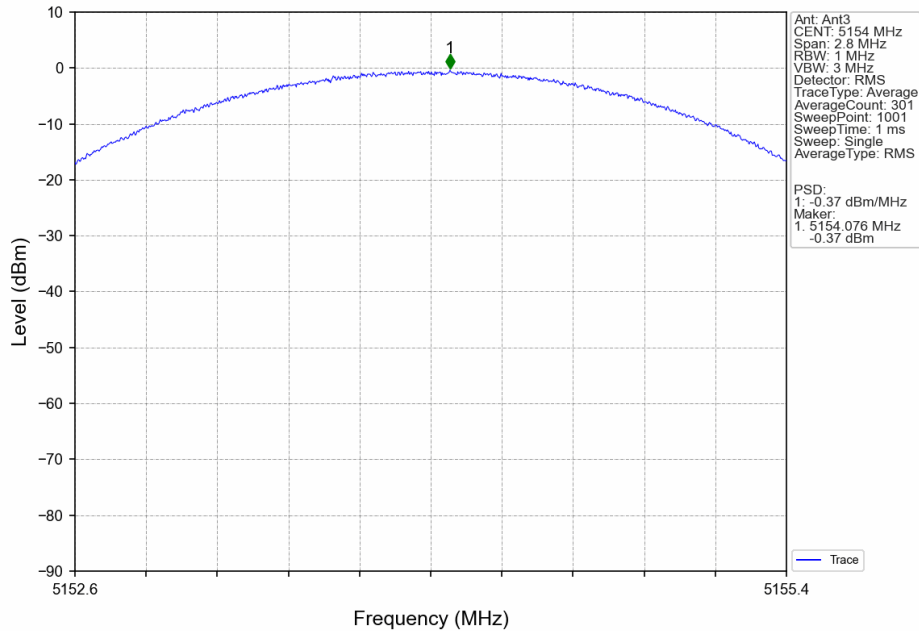
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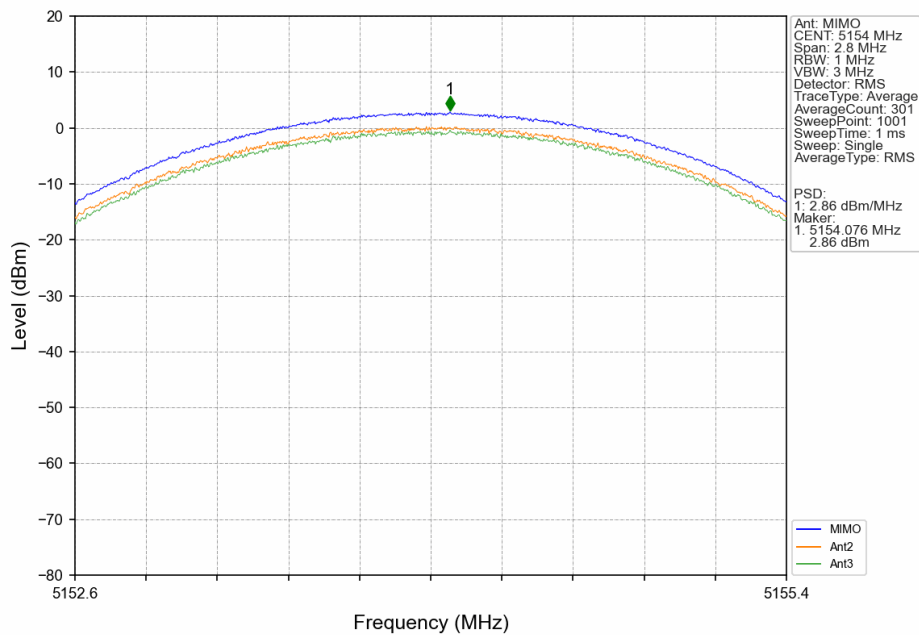
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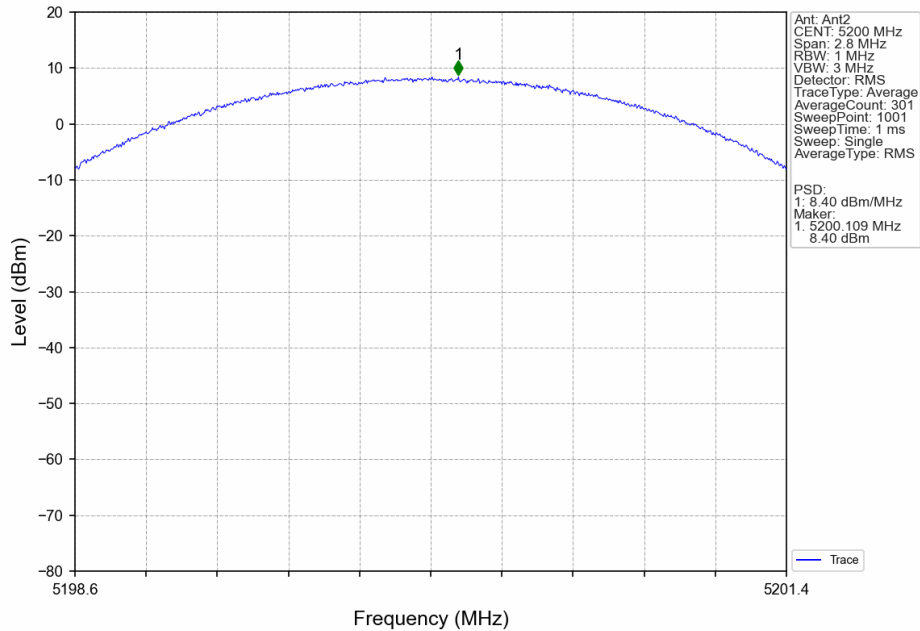
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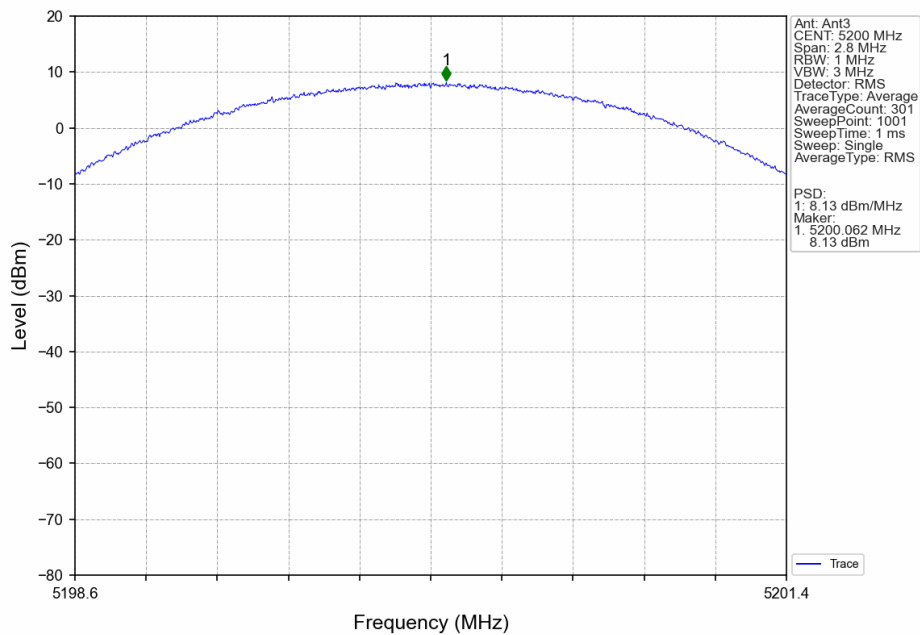
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1.4M_MCH_5200MHz_Ant2_NTNV



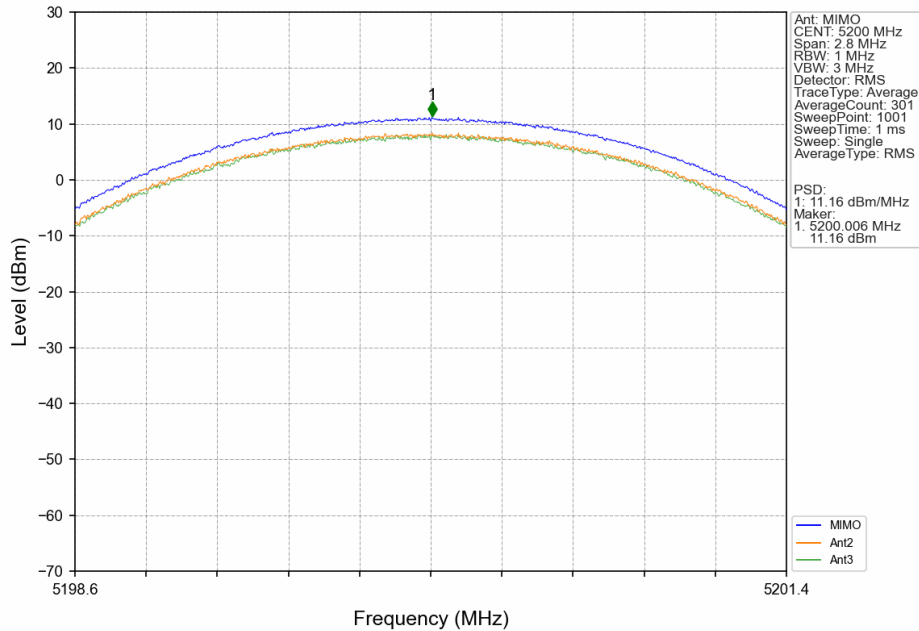
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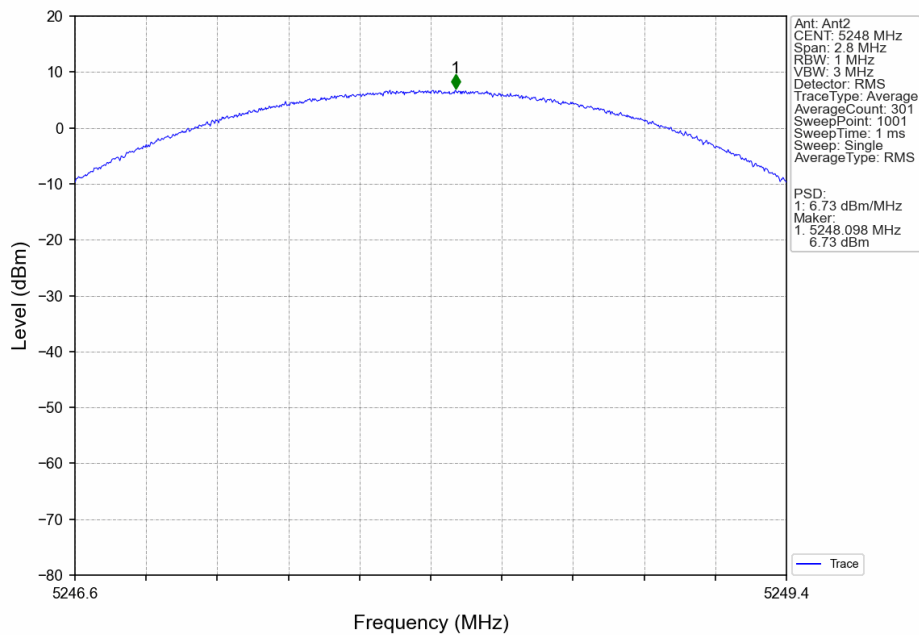
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1.4M_MCH_5200MHz_MIMO_NTNV



1.4M_HCH_5248MHz_Ant2_NTNV



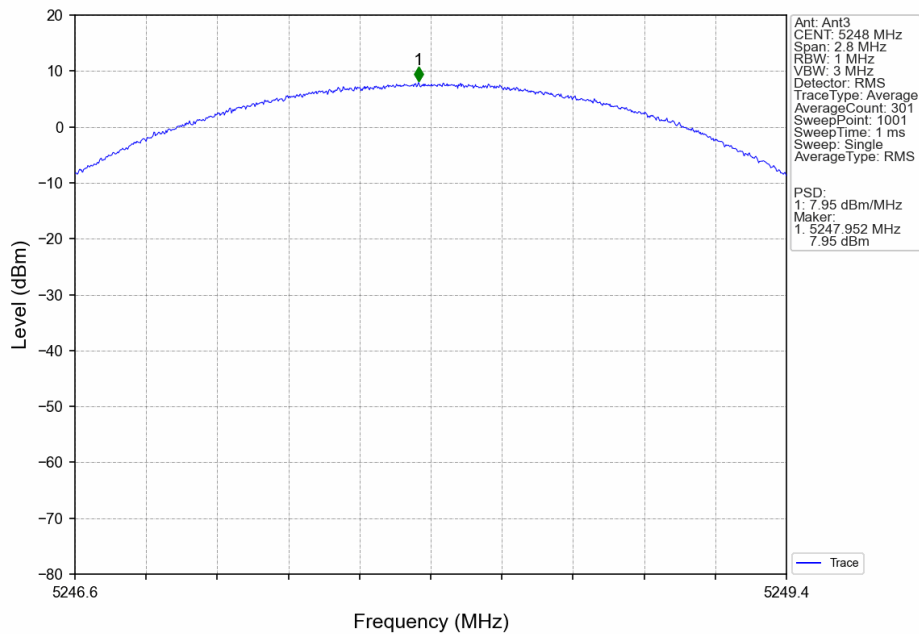
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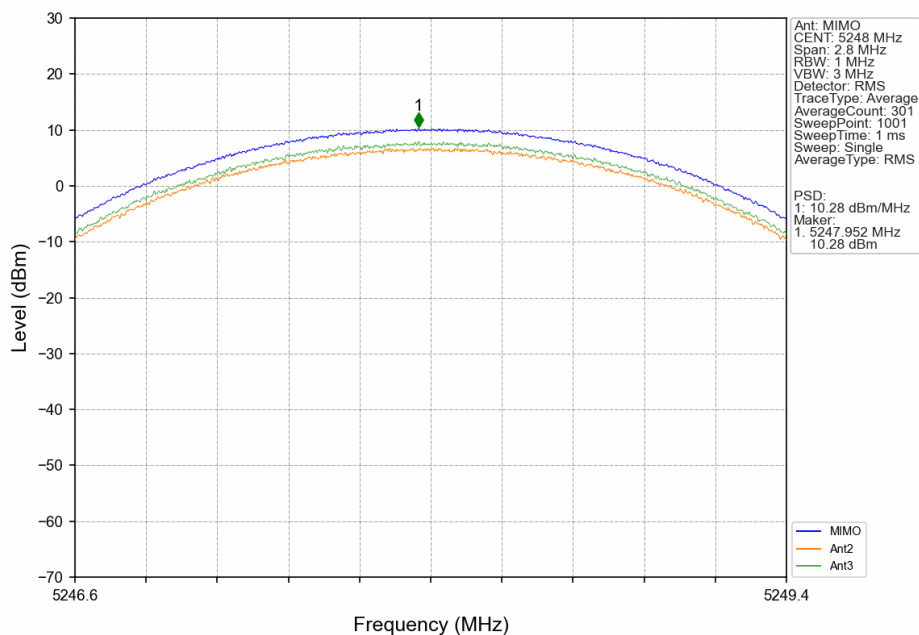
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1.4M_HCH_5248MHz_Ant3_NTNV



1.4M_HCH_5248MHz_MIMO_NTNV



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481505

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For 5.1G ANT 4 & ANT 5:

1. Maximum Conducted Output Power

1.1 Test Result

1.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum EIRP (dBm)				Verdict
			ANT4	ANT5	MIMO	Limit	
10M	MIMO	5157	2.63	2.97	5.81	<=21	Pass
		5200	15.67	16.09	18.90	<=21	Pass
		5245	15.92	16.95	19.48	<=21	Pass
20M	MIMO	5161	6.31	6.98	9.67	<=21	Pass
		5200	15.76	16.66	19.24	<=21	Pass
		5240	16.08	16.21	19.16	<=21	Pass
40M	MIMO	5170	9.28	9.28	12.29	<=21	Pass
		5200	16.58	16.96	19.78	<=21	Pass
		5230	17	17.47	20.25	<=21	Pass
60M	MIMO	5180	6.29	7.04	9.69	<=21	Pass
		5200	15.29	15.24	18.28	<=21	Pass
		5220	16.9	17.37	20.15	<=21	Pass
80M	MIMO	5190	7.18	6.81	10.01	<=21	Pass
		5200	17.07	17.48	20.29	<=21	Pass
		5210	16.82	17.37	20.11	<=21	Pass
5M	MIMO	5155	2.77	2.77	5.78	<=21	Pass
		5200	14.26	14.41	17.35	<=21	Pass
		5245	13.69	14.34	17.04	<=21	Pass
3M	MIMO	5154	-0.58	-0.11	2.67	<=21	Pass
		5199	10.54	10.47	13.52	<=21	Pass
		5247	9.45	10.36	12.94	<=21	Pass
1.4M	MIMO	5154	0.43	0.47	3.46	<=21	Pass
		5200	9.21	8.75	12.00	<=21	Pass
		5248	8.44	9.04	11.76	<=21	Pass

2. Maximum Power Spectral Density

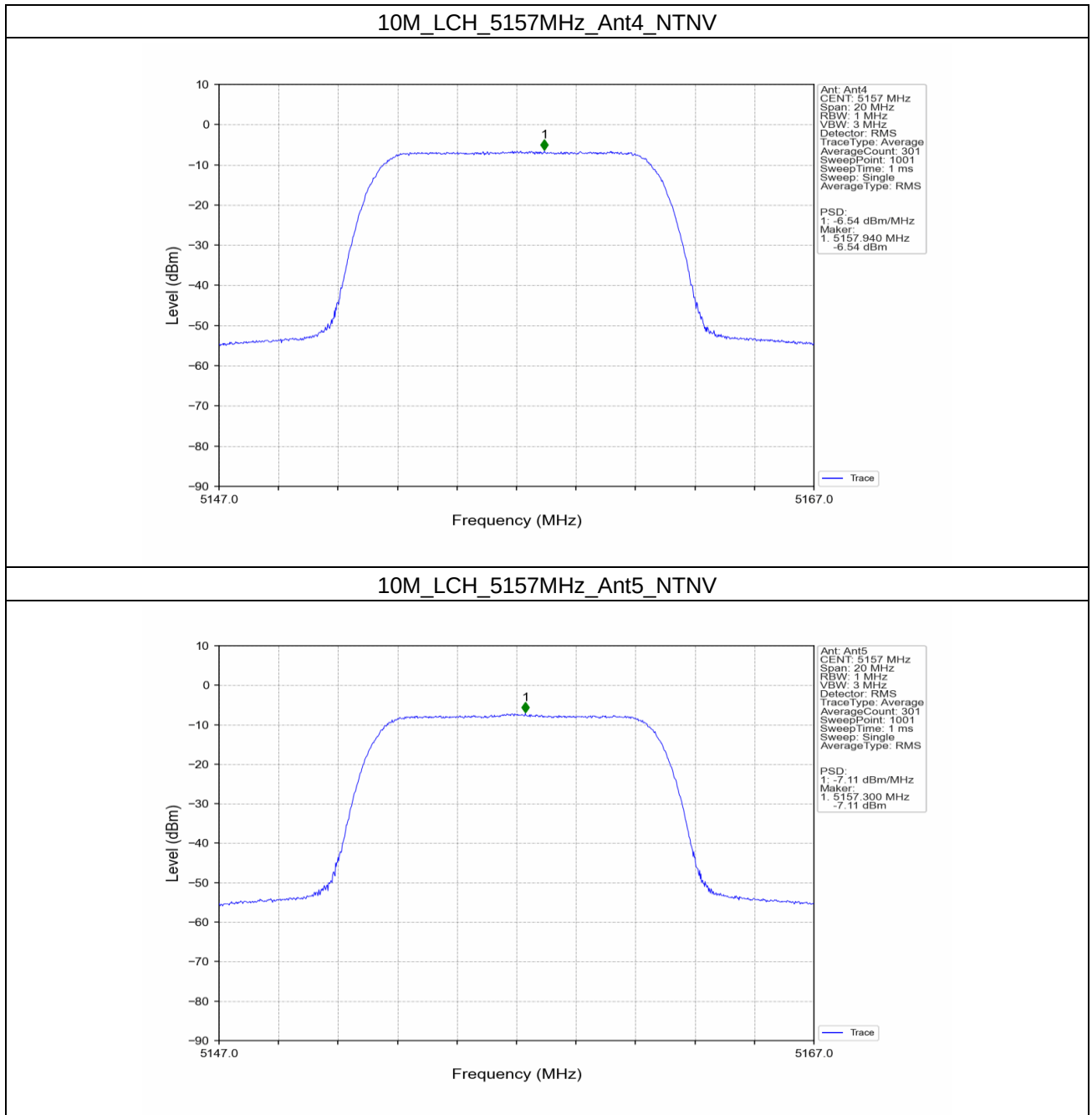
2.1 Test Result

2.1.1 PSD

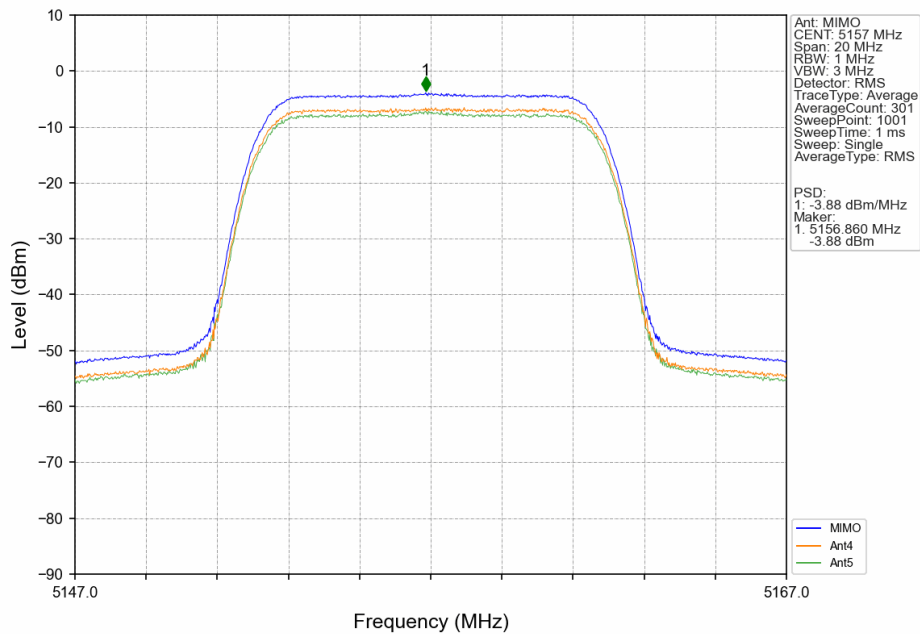
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT4	ANT5	MIMO	Limit	
10M	MIMO	5157	-6.54	-7.11	-3.88	<=17	Pass
		5200	7.31	6.14	9.65	<=17	Pass
		5245	5.23	6.36	8.71	<=17	Pass
20M	MIMO	5161	-5.98	-6.38	-3.42	<=17	Pass
		5200	4.82	4.08	7.40	<=17	Pass
		5240	2.73	3.34	5.90	<=17	Pass
40M	MIMO	5170	-6.26	-6.69	-3.70	<=17	Pass
		5200	3.41	3.31	6.23	<=17	Pass
		5230	3.06	2.46	5.58	<=17	Pass
60M	MIMO	5180	-10.20	-10.74	-7.58	<=17	Pass
		5200	-2.58	-3.04	0.09	<=17	Pass
		5220	-0.07	-0.11	2.76	<=17	Pass
80M	MIMO	5190	-12.27	-12.06	-9.32	<=17	Pass
		5200	-0.16	-0.23	2.51	<=17	Pass
		5210	-0.04	-0.70	2.58	<=17	Pass
5M	MIMO	5155	-4.36	-4.80	-1.61	<=17	Pass
		5200	7.81	8.05	10.80	<=17	Pass
		5245	6.13	7.31	9.58	<=17	Pass
3M	MIMO	5154	-4.09	-4.30	-1.29	<=17	Pass
		5199	8.12	7.94	10.89	<=17	Pass
		5247	5.15	6.49	8.76	<=17	Pass
1.4M	MIMO	5154	0.15	-0.18	2.94	<=17	Pass
		5200	7.70	7.83	10.56	<=17	Pass
		5248	6.89	8.30	10.60	<=17	Pass

2.2 Test Graph

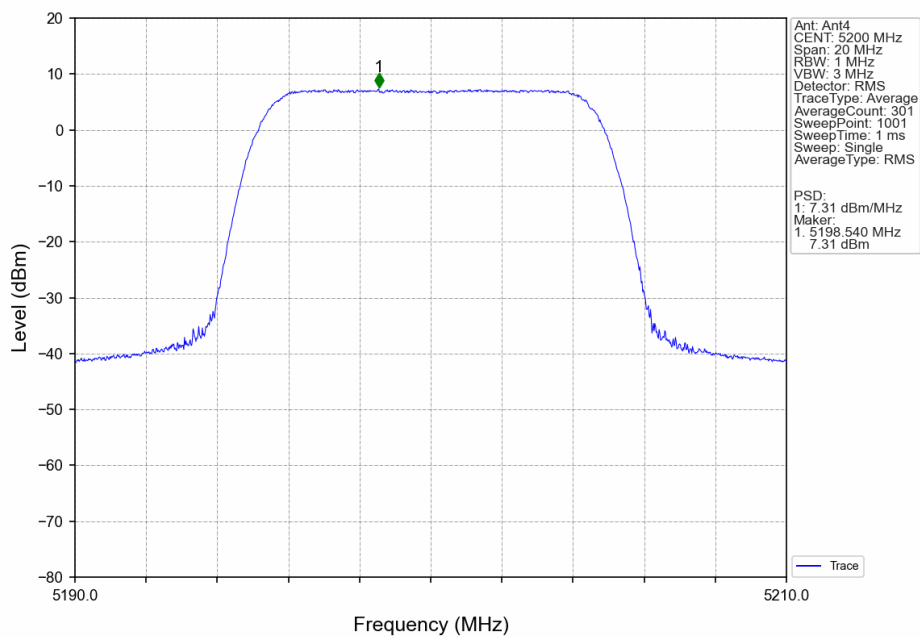
2.2.1 PSD



10M_LCH_5157MHz_MIMO_NTNV



10M_MCH_5200MHz_Ant4_NTNV



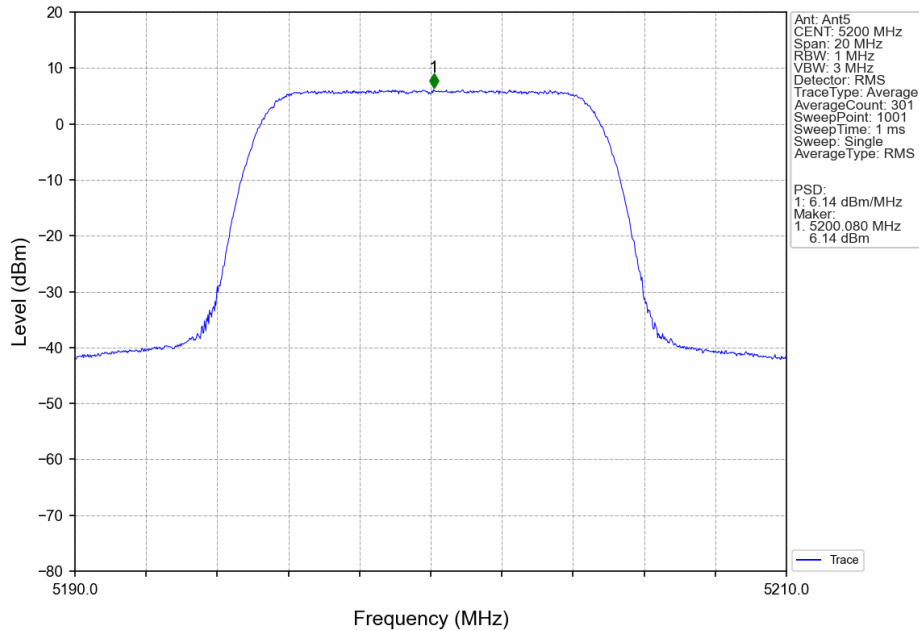
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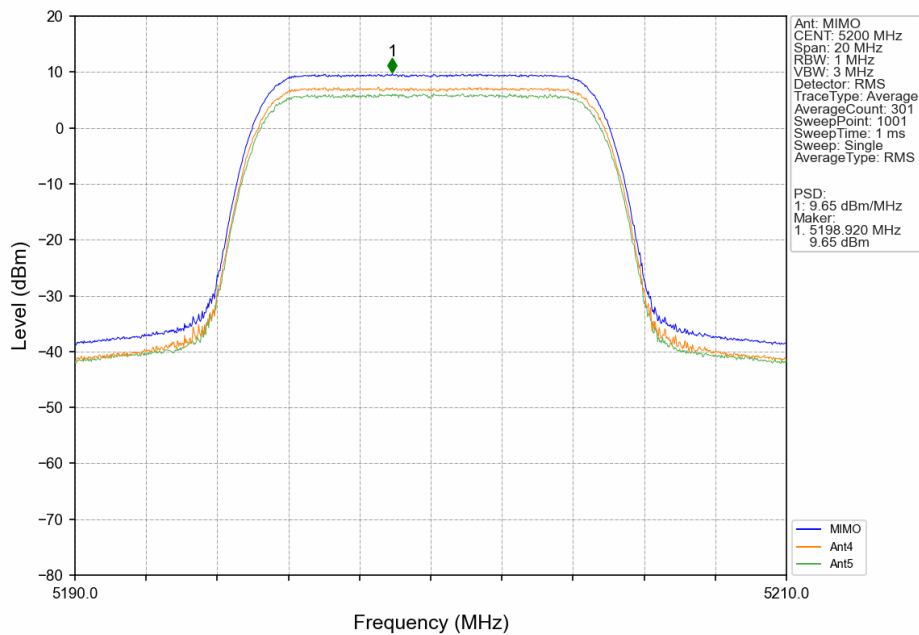
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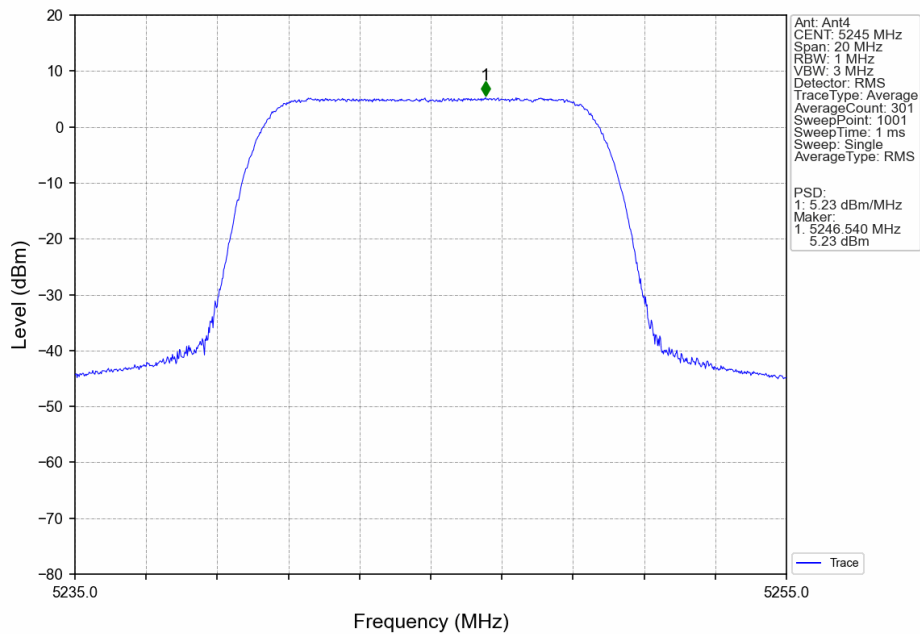
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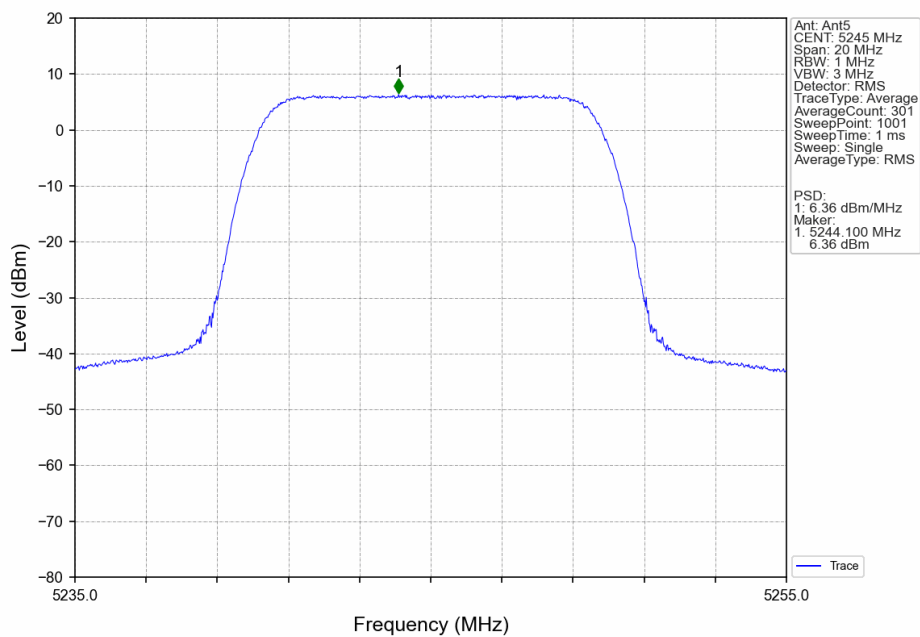
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10M_HCH_5245MHz_Ant4_NTNV



10M_HCH_5245MHz_Ant5_NTNV



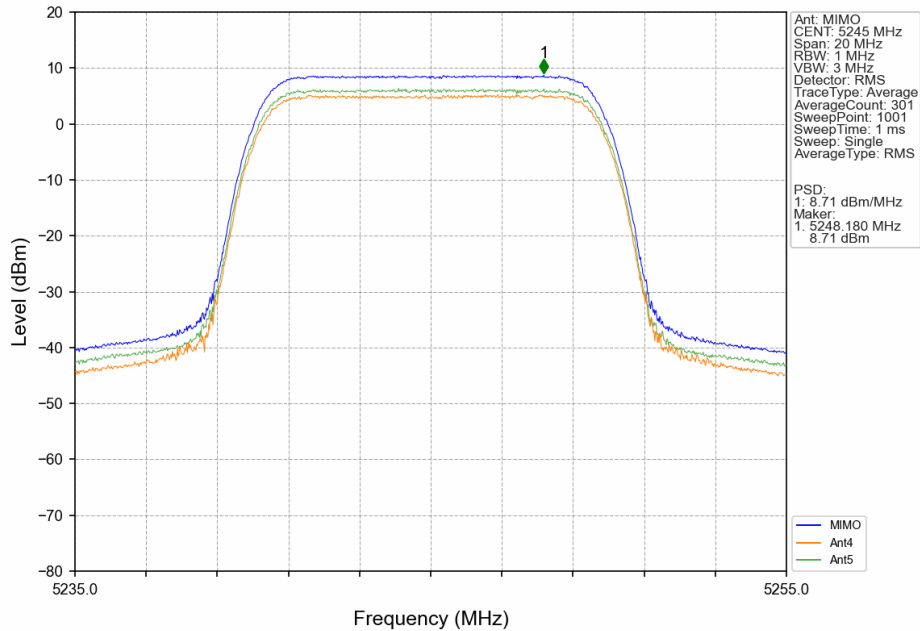
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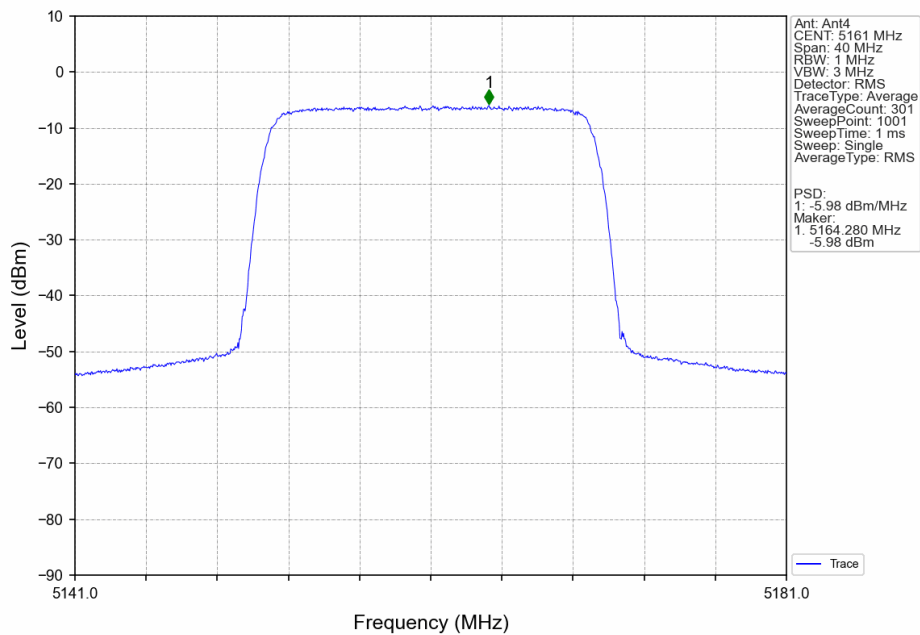
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10M_HCH_5245MHz_MIMO_NTNV



20M_LCH_5161MHz_Ant4_NTNV



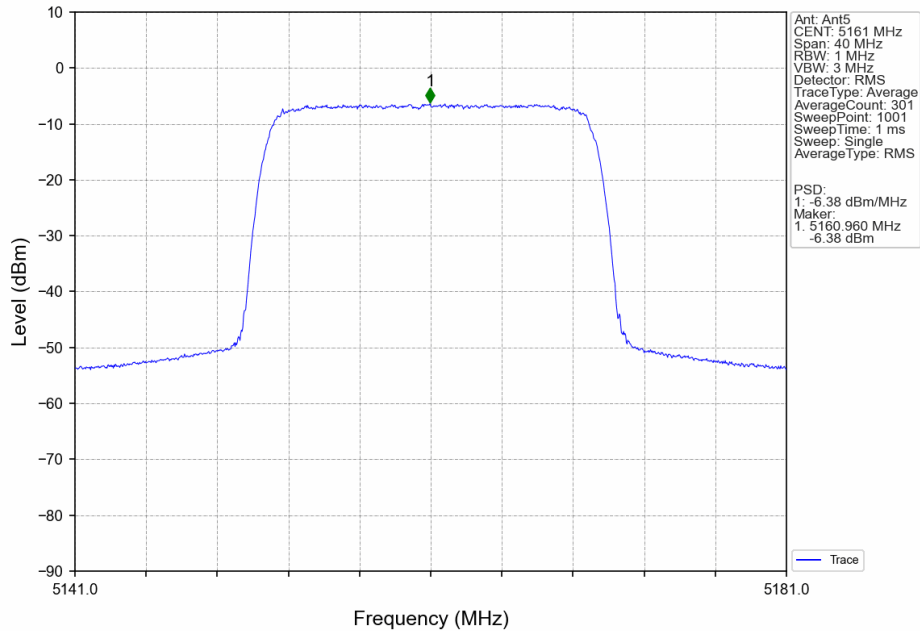
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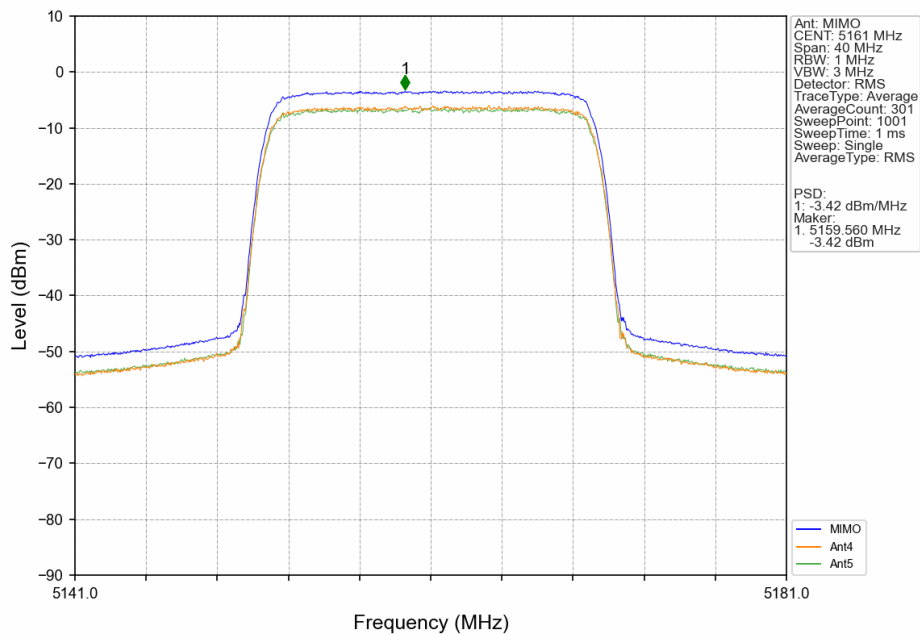
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20M_LCH_5161MHz_Ant5_NTNV



20M_LCH_5161MHz_MIMO_NTNV



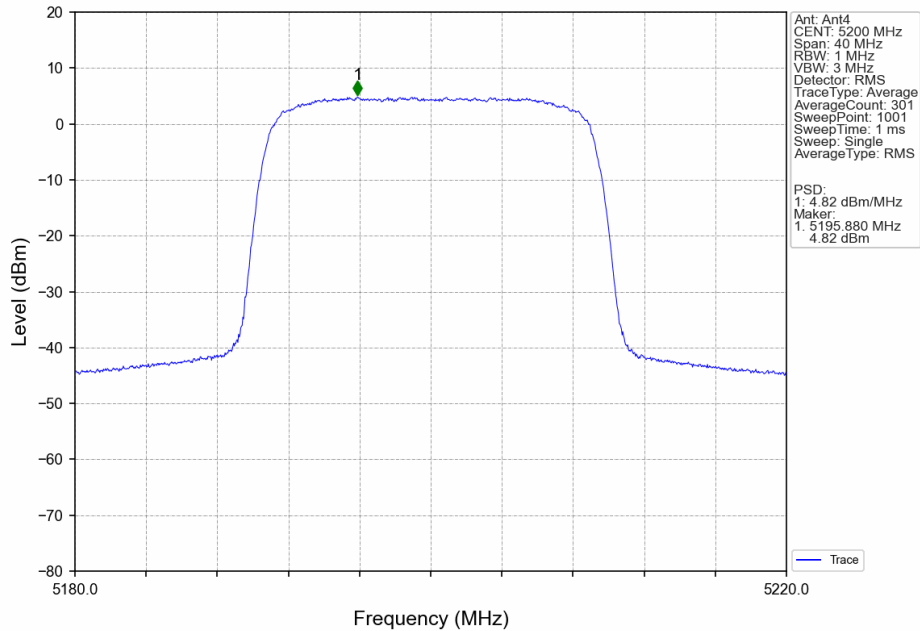
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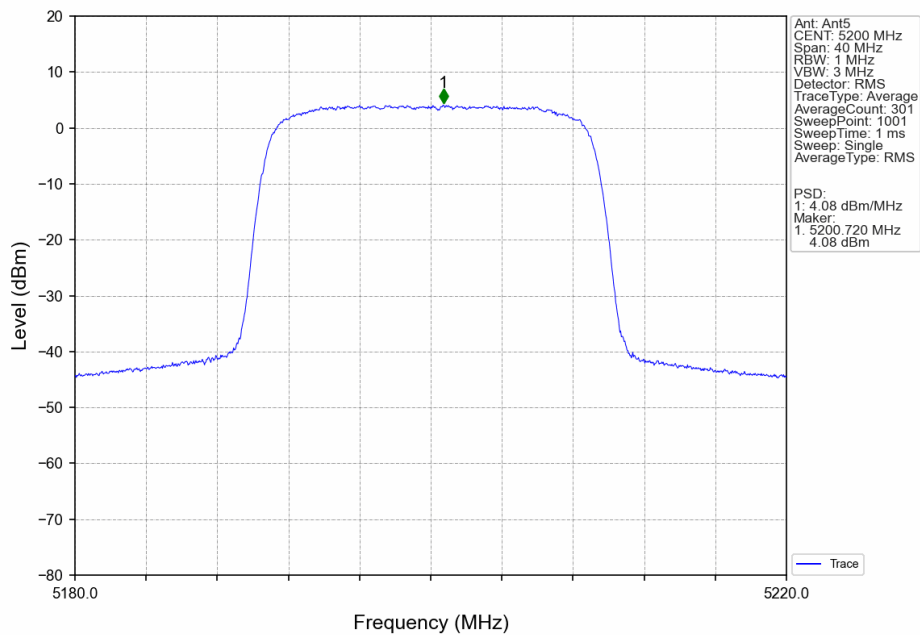
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20M_MCH_5200MHz_Ant4_NTNV



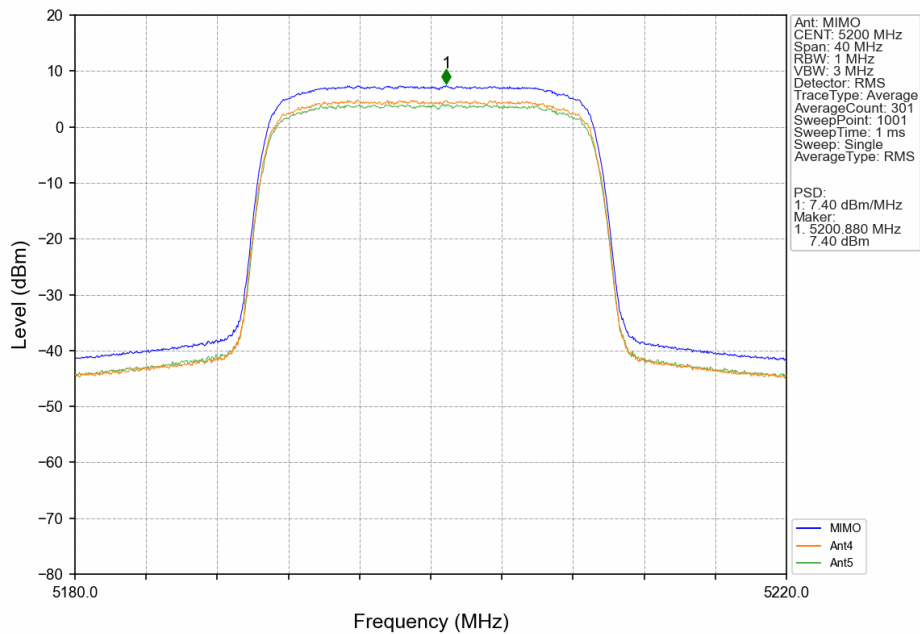
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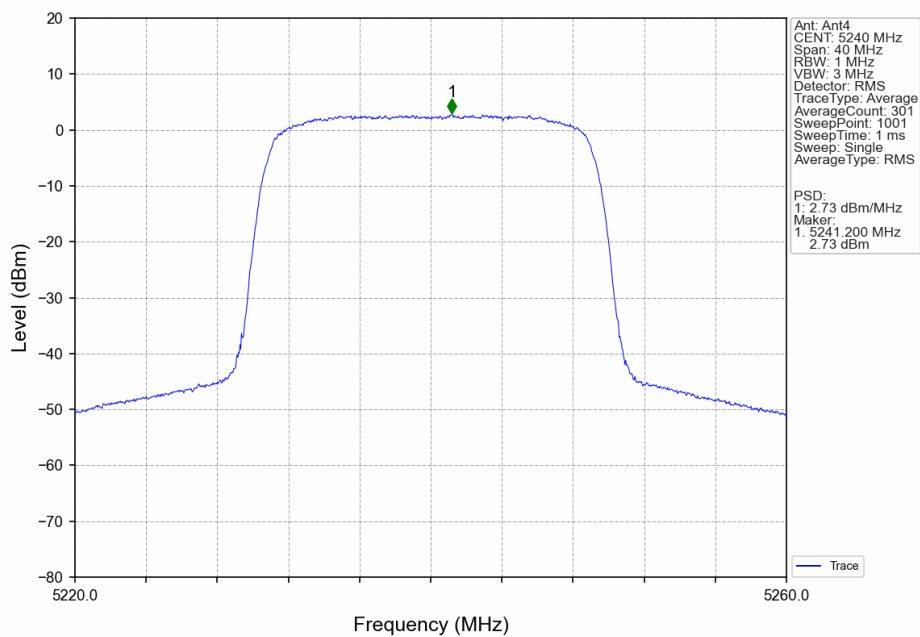
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20M_MCH_5200MHz_MIMO_NTNV



20M_HCH_5240MHz_Ant4_NTNV



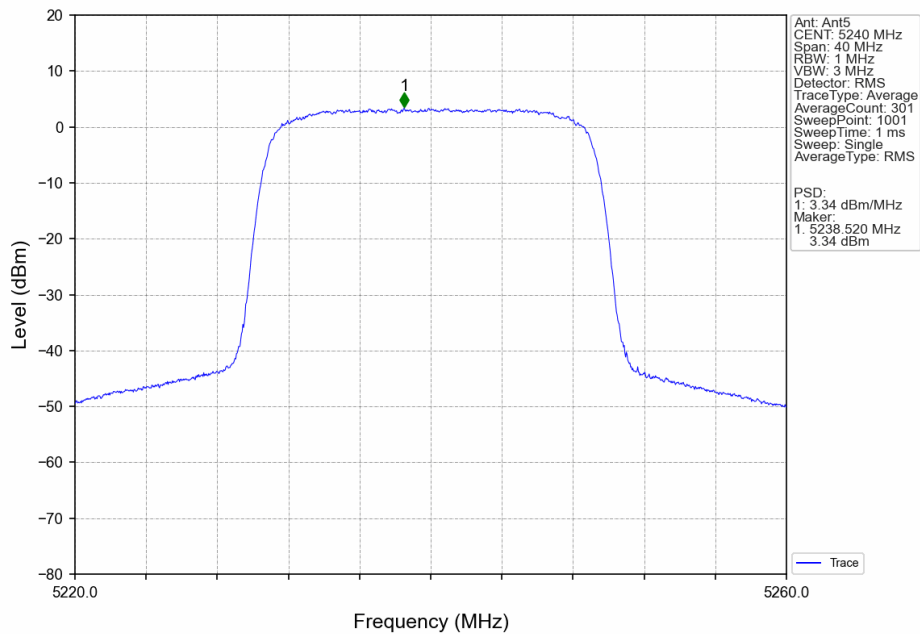
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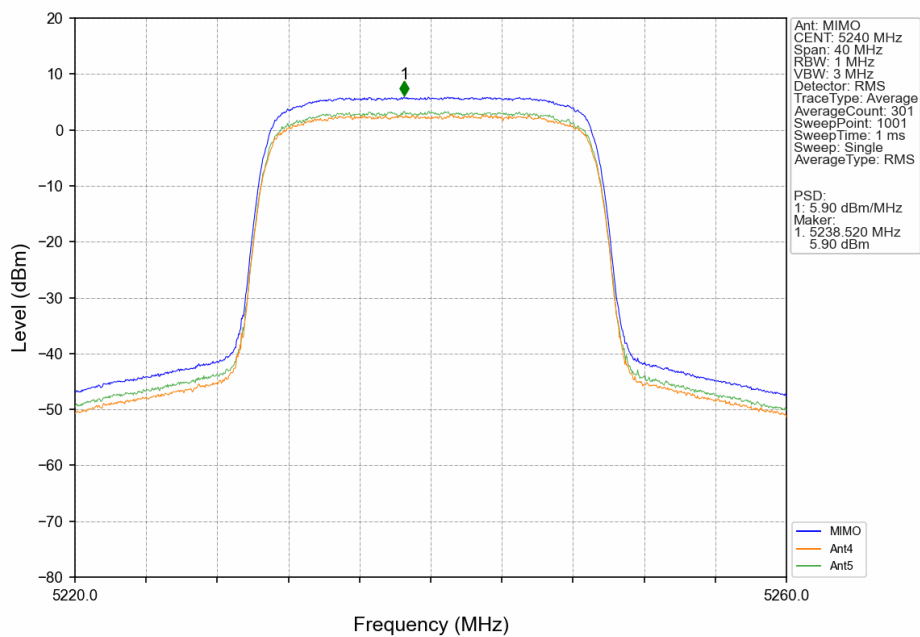
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20M_HCH_5240MHz_Ant5_NTNV



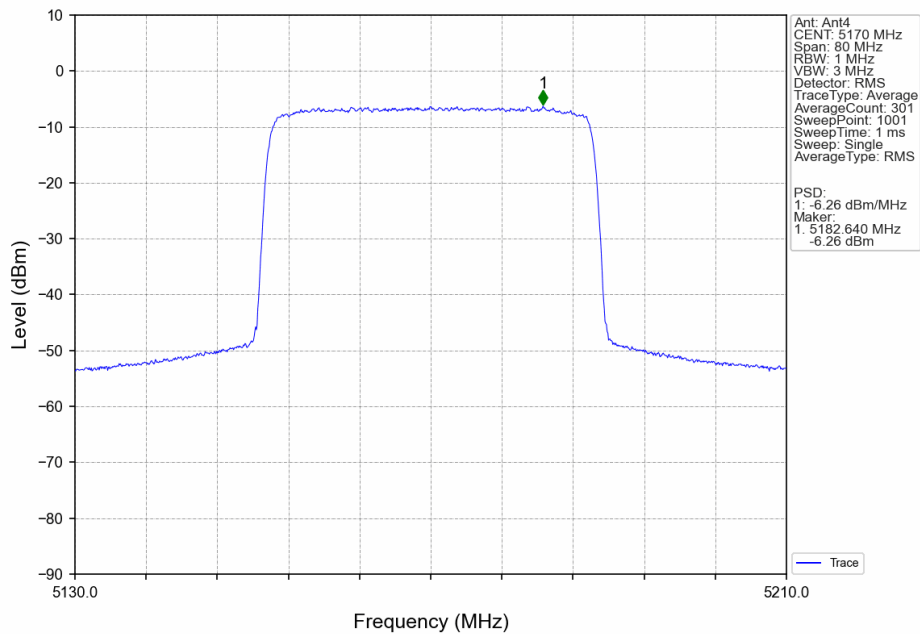
20M_HCH_5240MHz_MIMO_NTNV



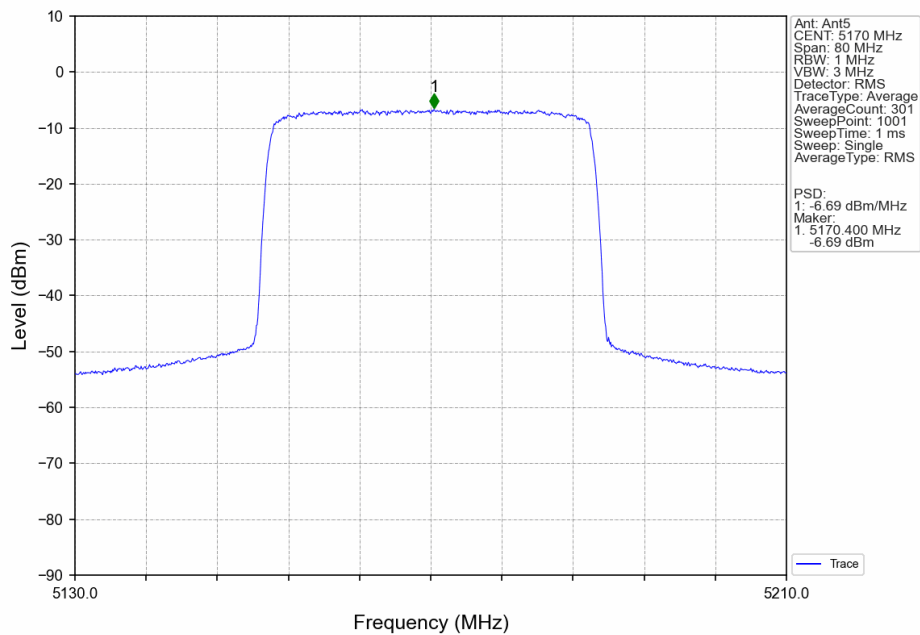
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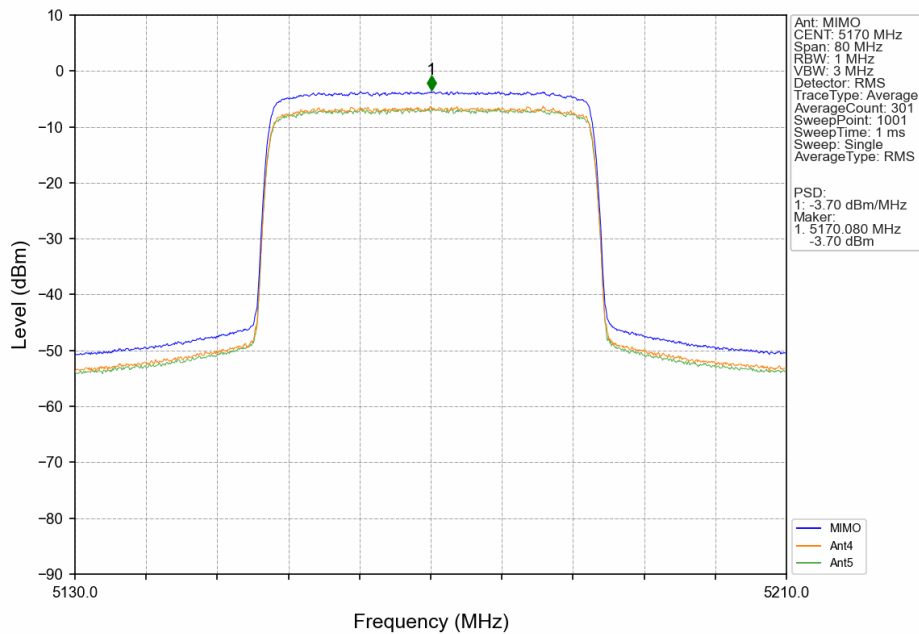
40M_LCH_5170MHz_Ant4_NTNV



40M_LCH_5170MHz_Ant5_NTNV



40M_LCH_5170MHz_MIMO_NTNV



40M_MCH_5200MHz_Ant4_NTNV

