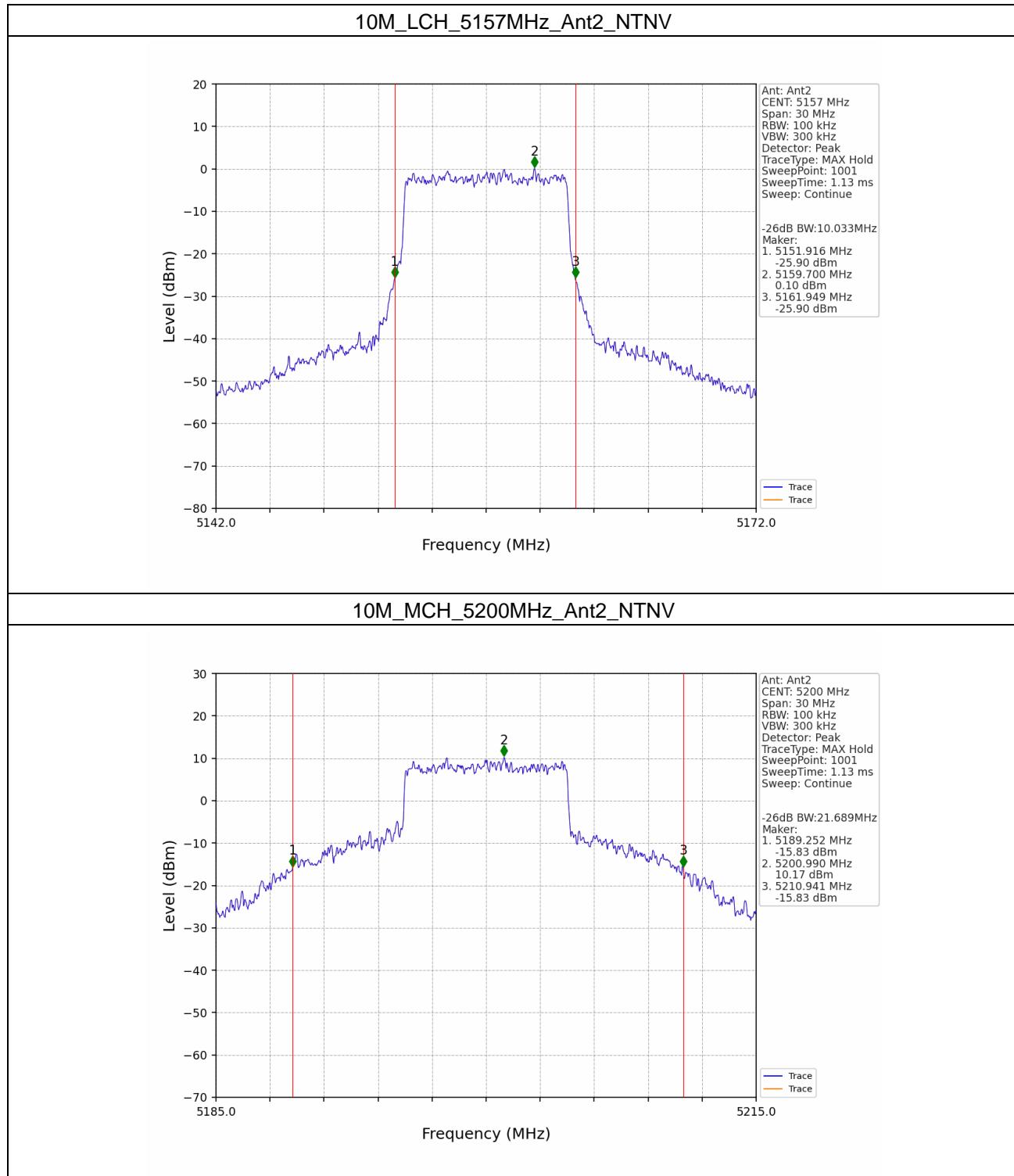


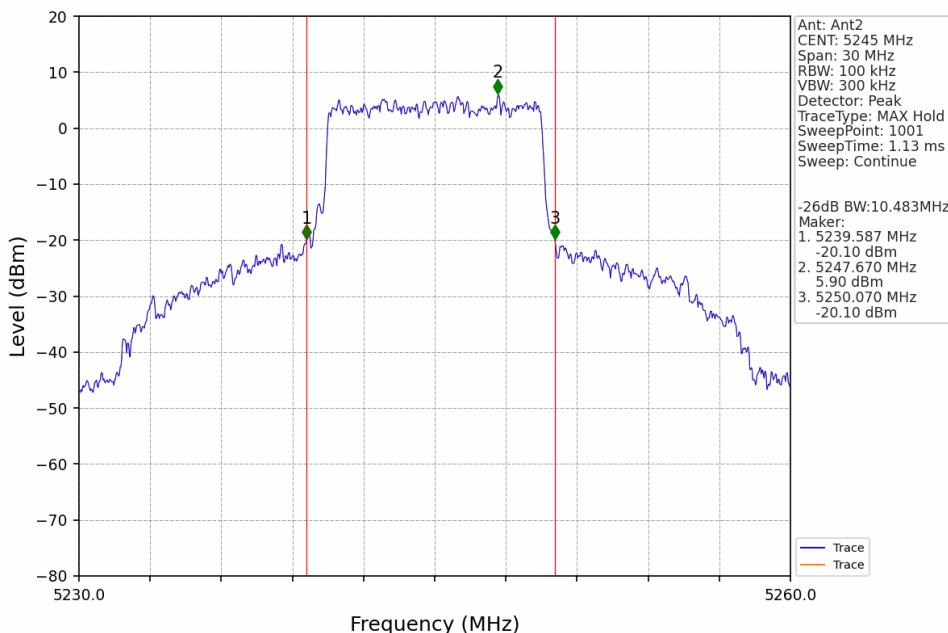
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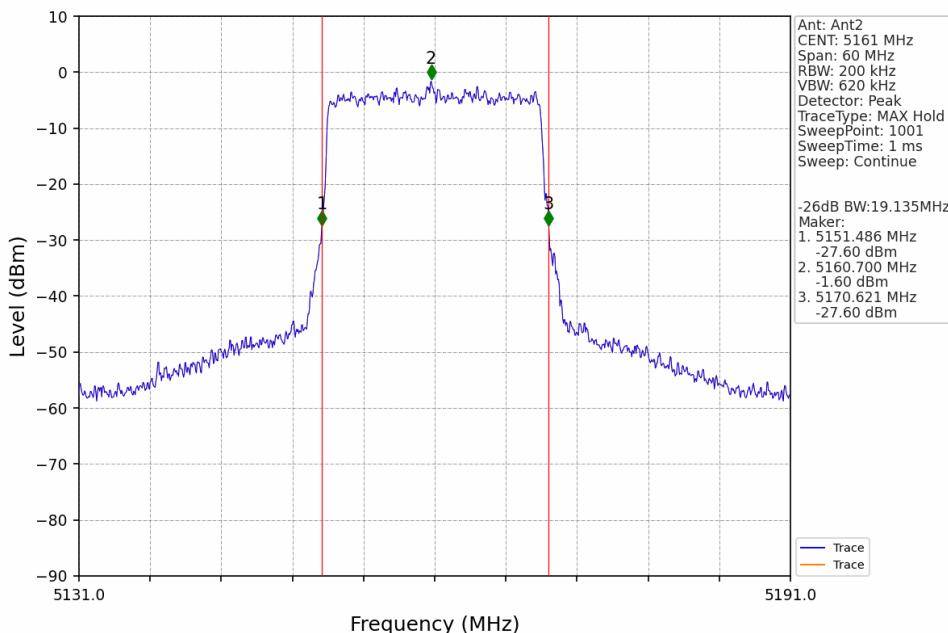
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10M_HCH_5245MHz_Ant2_NTNV



20M_LCH_5161MHz_Ant2_NTNV



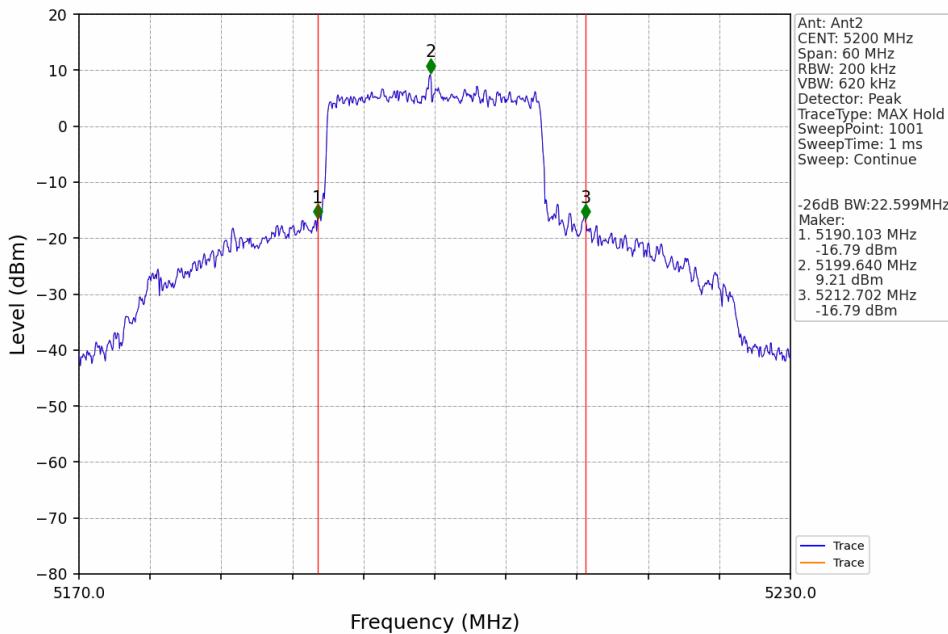
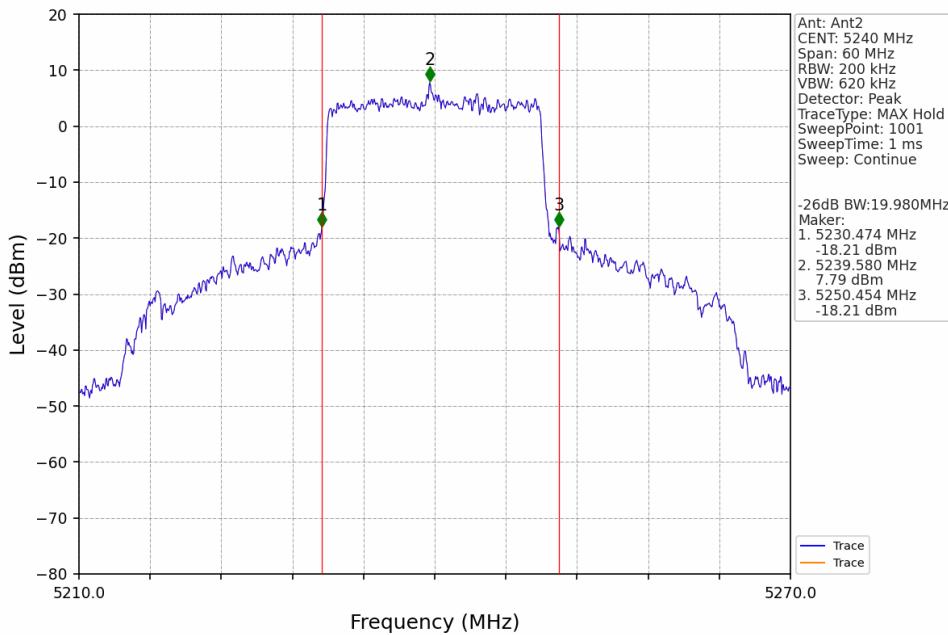
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20M_MCH_5200MHz_Ant2_NTNV**20M_HCH_5240MHz_Ant2_NTNV**

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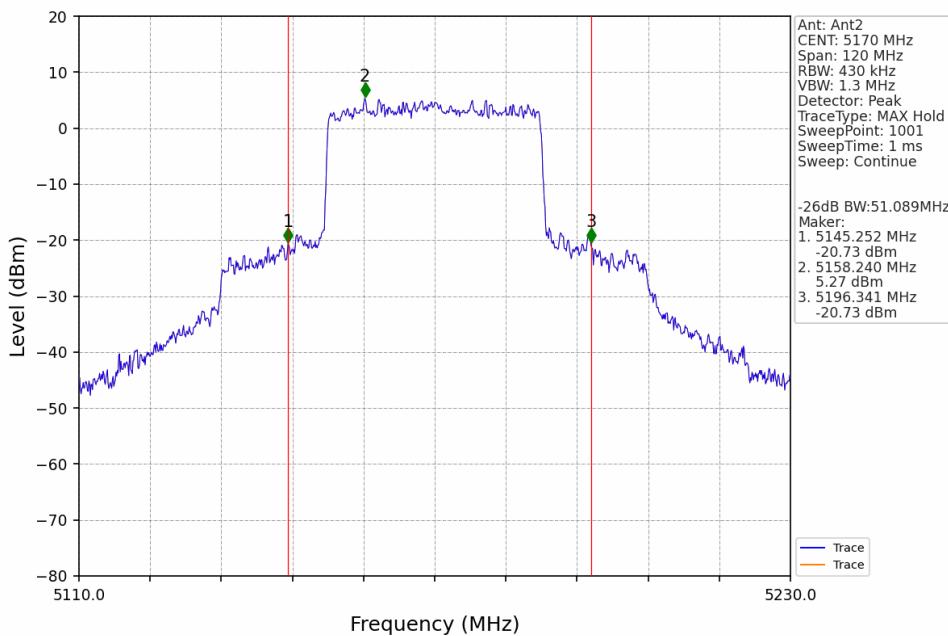
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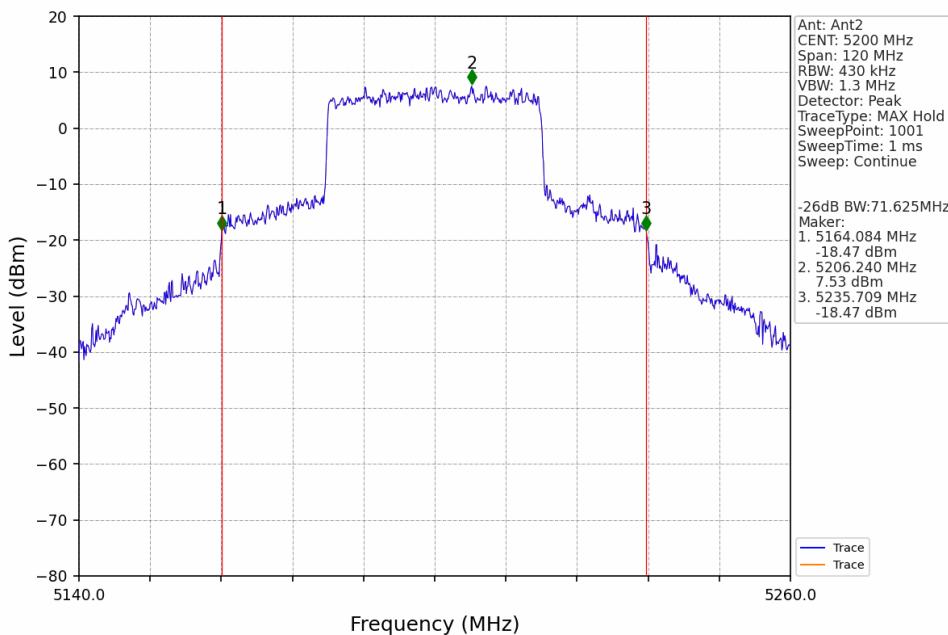
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40M_LCH_5170MHz_Ant2_NTNV



40M_MCH_5200MHz_Ant2_NTNV



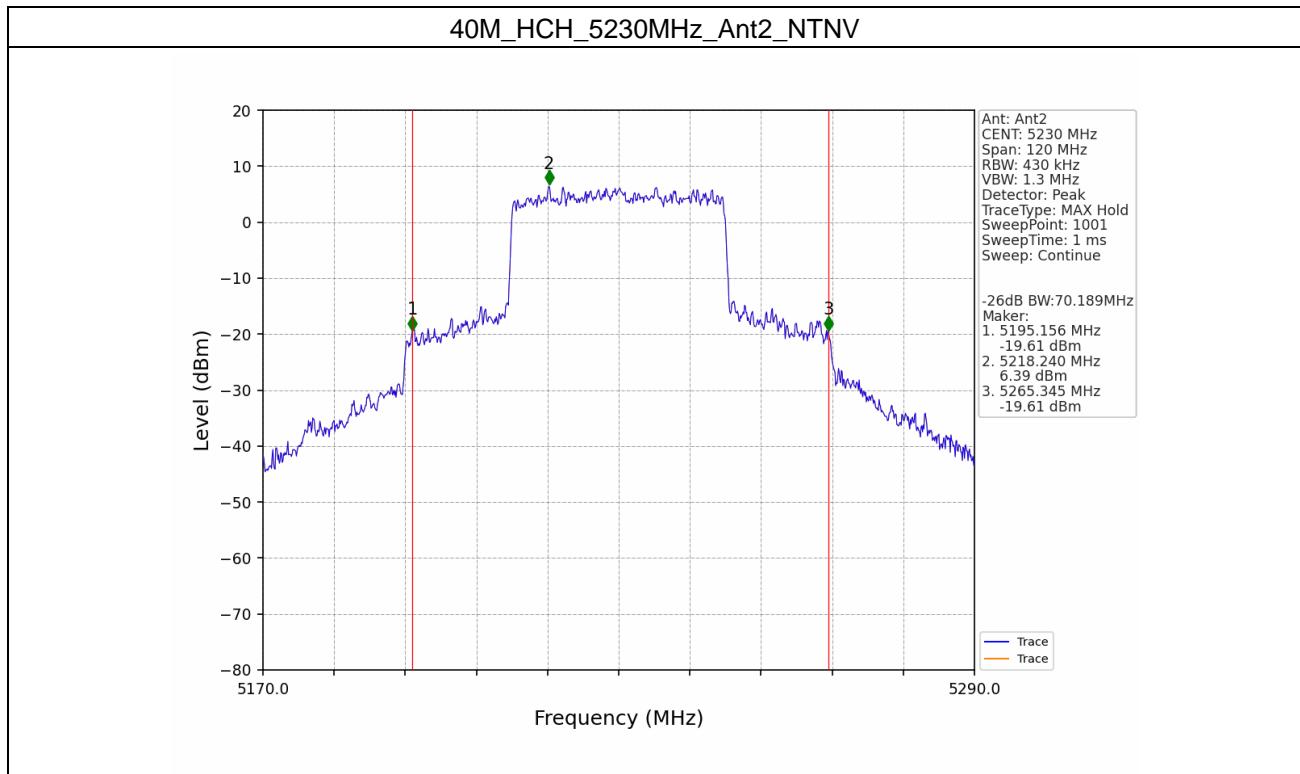
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT2	ANT3	MIMO	Limit	
10M	MIMO	5157	8.37	8.30	11.35	<=30	Pass
		5200	16.34	16.19	19.28	<=30	Pass
		5245	15.10	14.89	18.01	<=30	Pass
20M	MIMO	5161	12.07	12.29	15.19	<=30	Pass
		5200	16.45	16.26	19.37	<=30	Pass
		5240	15.21	14.98	18.11	<=30	Pass
40M	MIMO	5170	13.35	13.82	16.60	<=30	Pass
		5200	16.19	15.94	19.08	<=30	Pass
		5230	14.85	14.61	17.74	<=30	Pass

Note: Ant0=Ant1=1dBi

5200MHz: MAX EIRP=EIRP Ant0+EIRP Ant1=20.37=108.80mW<125mW

Meets the requirements of FCC Part 15.407a

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

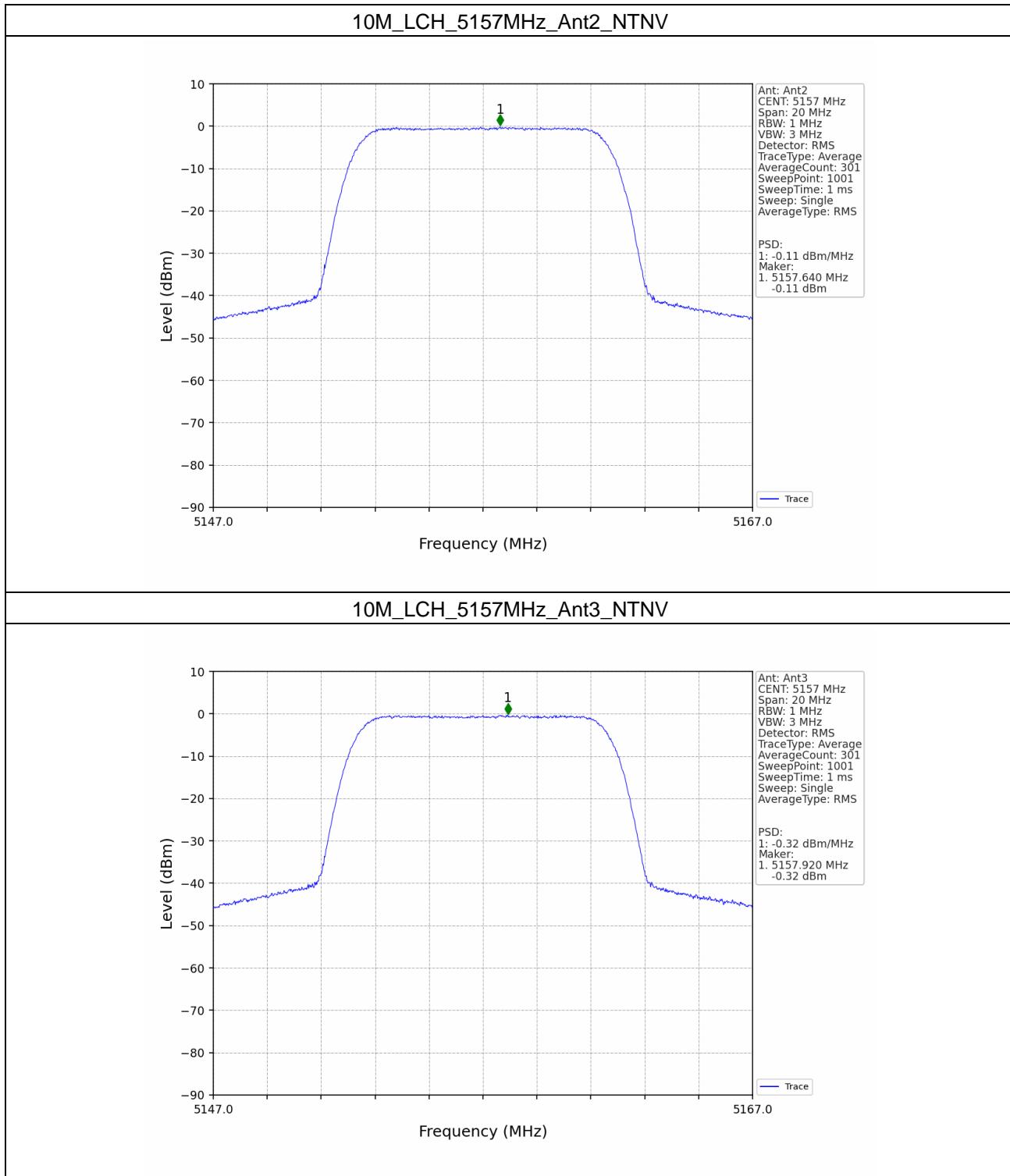
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT2	ANT3	MIMO	Limit	
10M	MIMO	5157	-0.11	-0.32	2.77	<=17	Pass
		5200	7.58	7.49	10.39	<=17	Pass
		5245	6.55	6.32	9.33	<=17	Pass
20M	MIMO	5161	0.61	0.73	3.49	<=17	Pass
		5200	5.04	4.68	7.77	<=17	Pass
		5240	3.83	3.41	6.53	<=17	Pass
40M	MIMO	5170	-1.03	-0.18	2.25	<=17	Pass
		5200	1.73	1.48	4.57	<=17	Pass
		5230	0.69	0.40	3.50	<=17	Pass

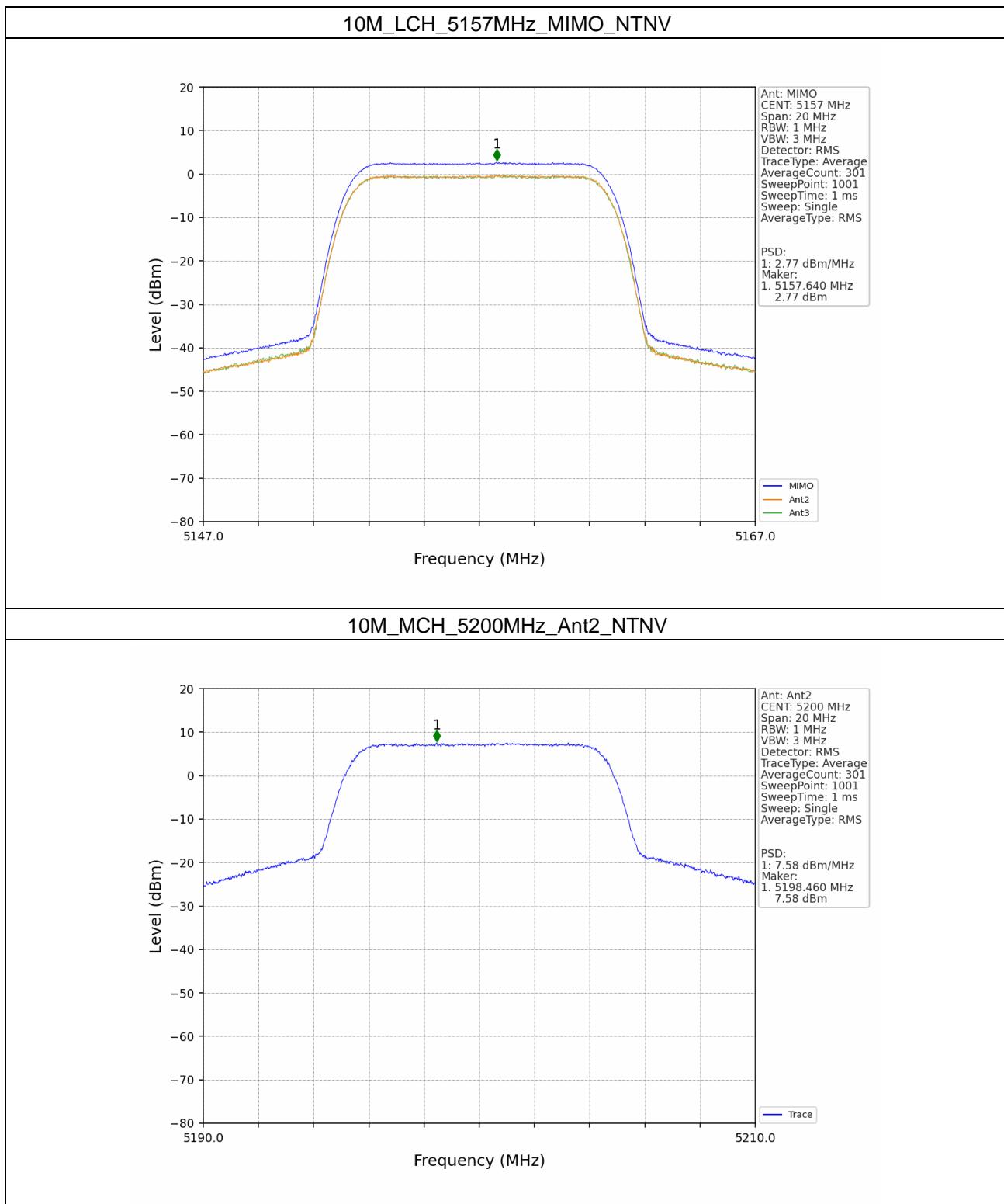
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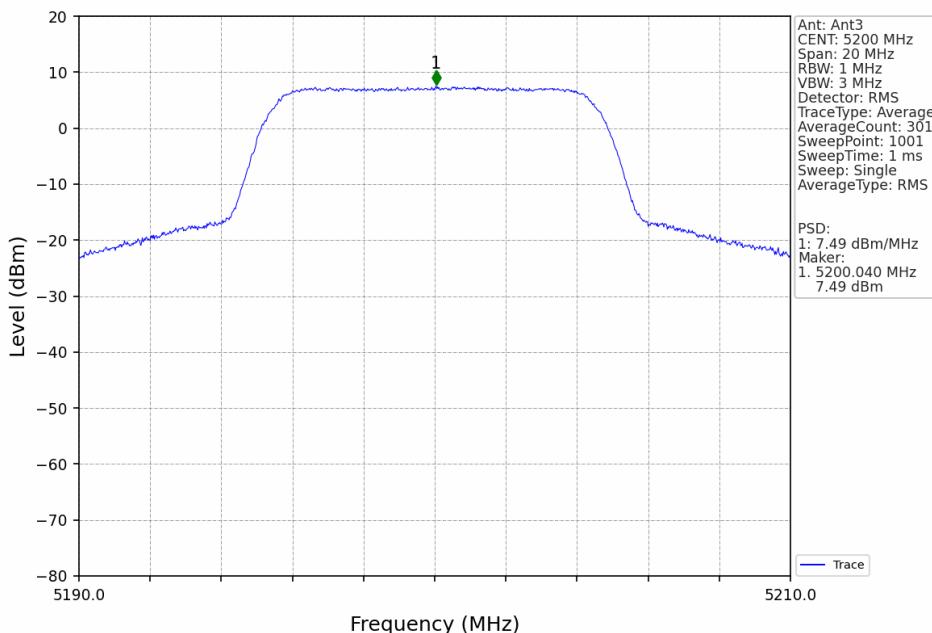
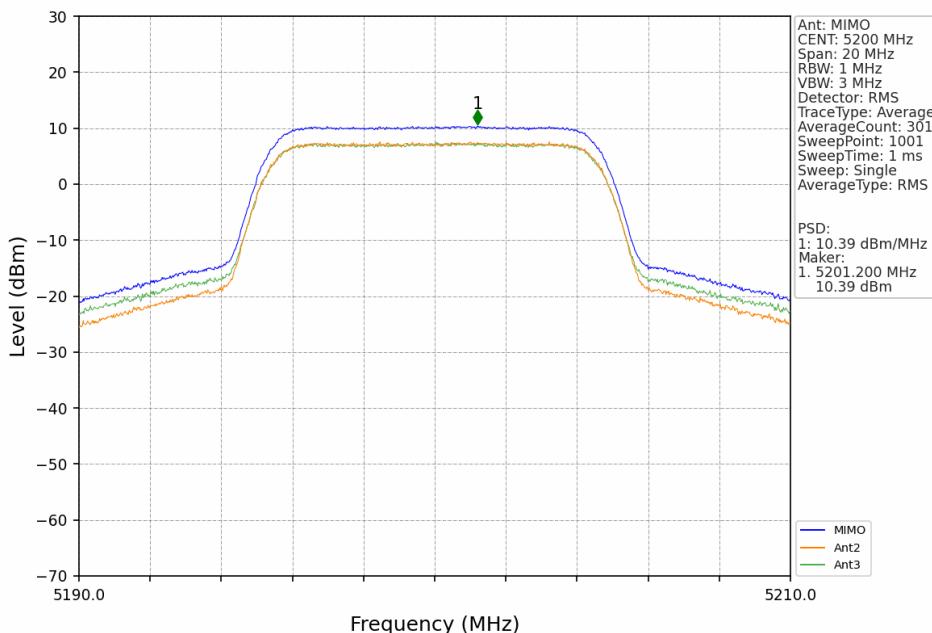
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4.2 Test Graph**4.2.1 PSD**



10M_MCH_5200MHz_Ant3_NTNV**10M_MCH_5200MHz_MIMO_NTNV**

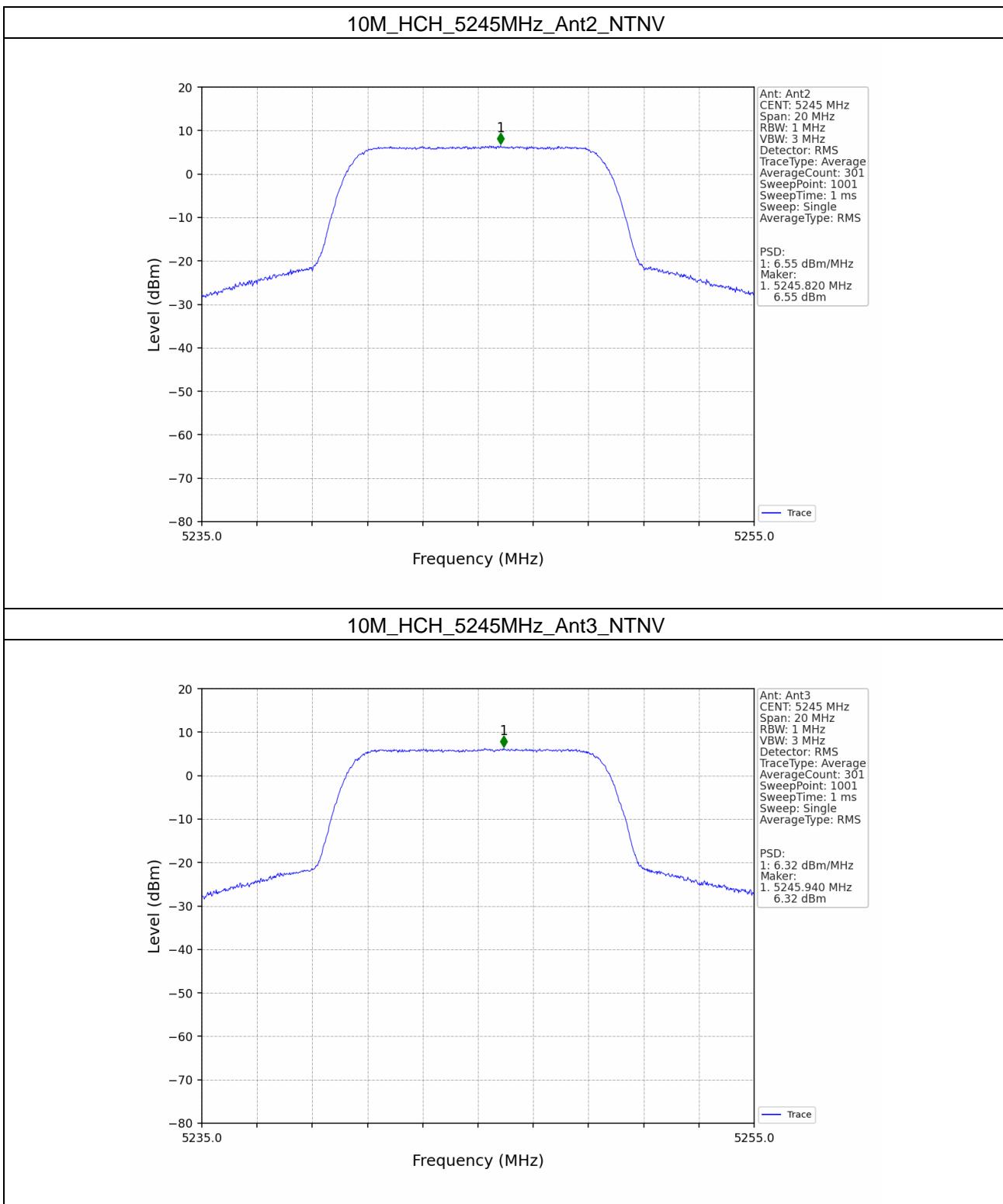
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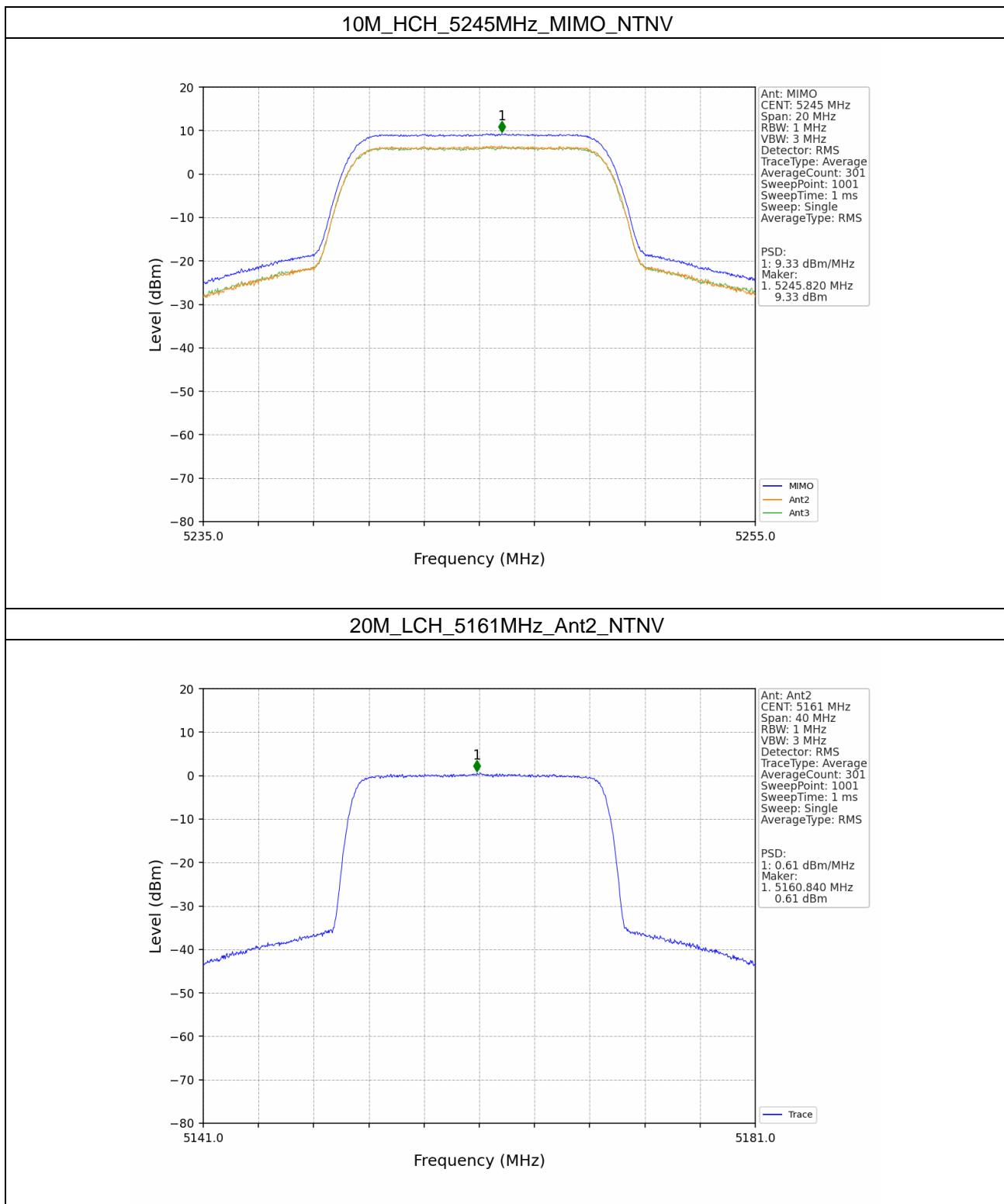
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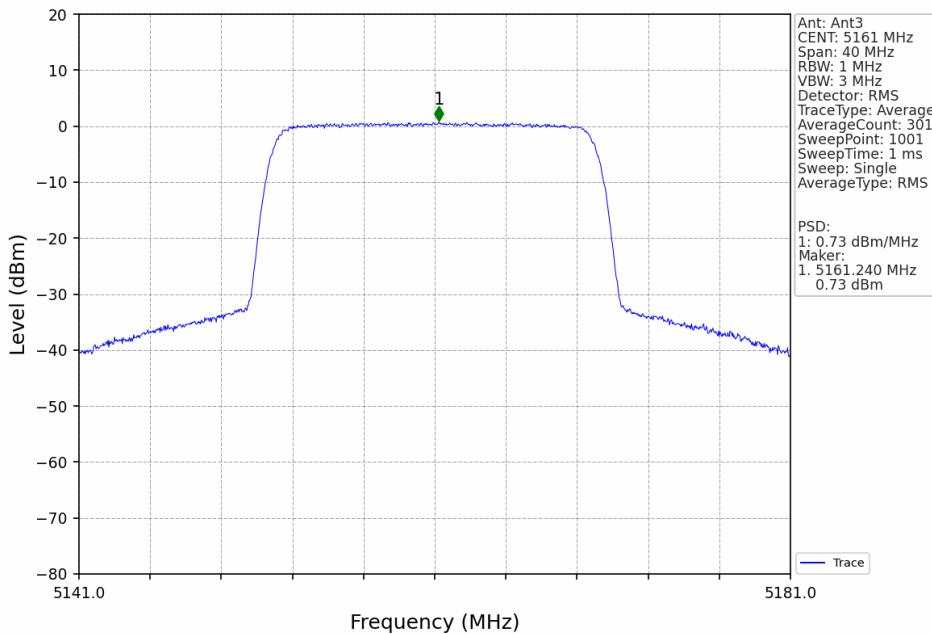
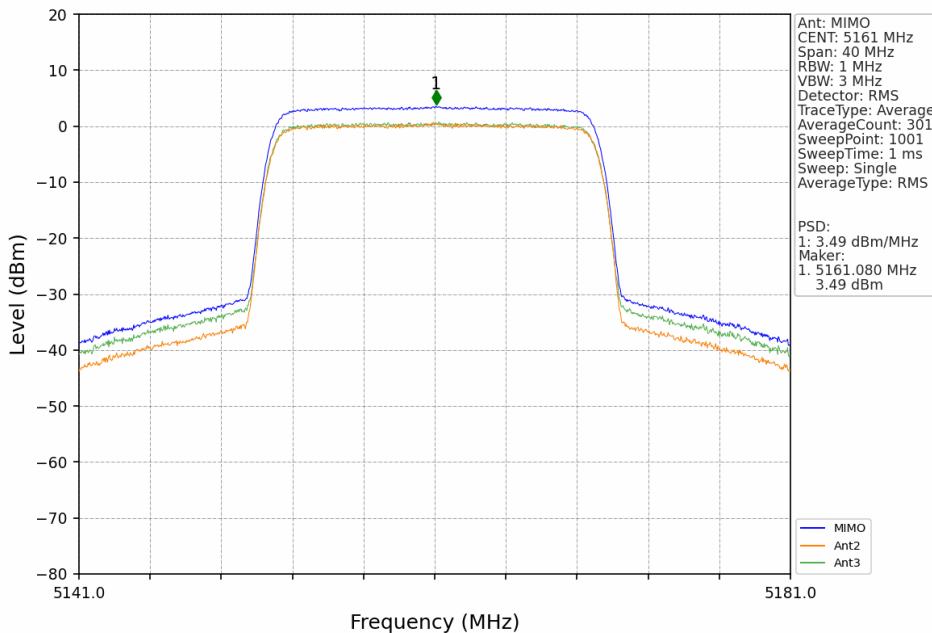
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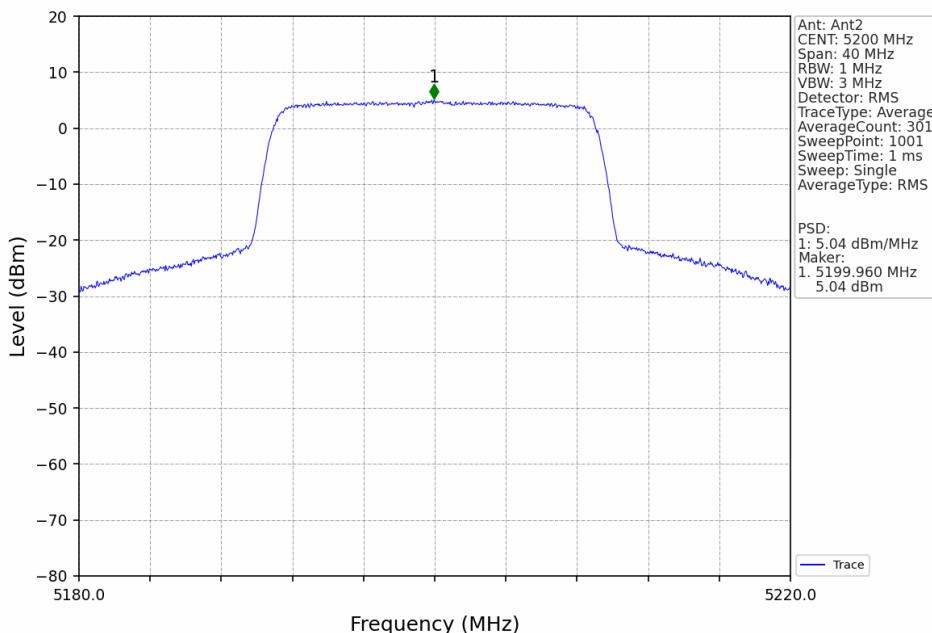
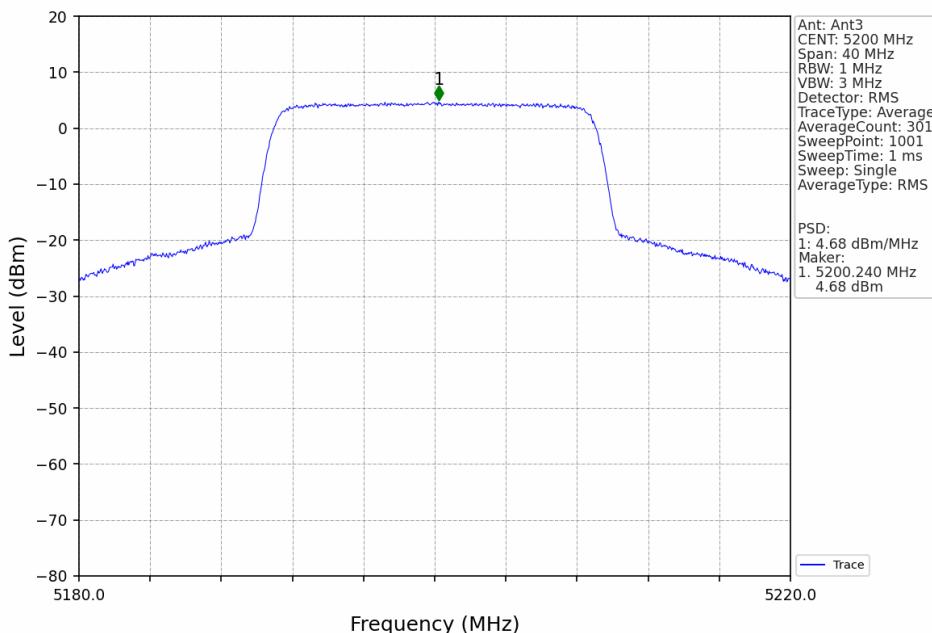




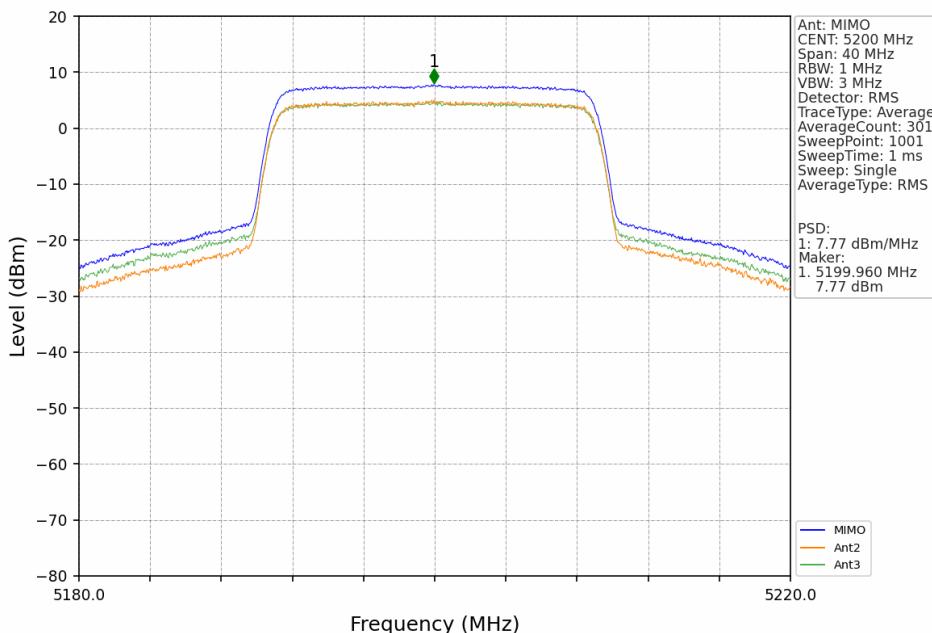
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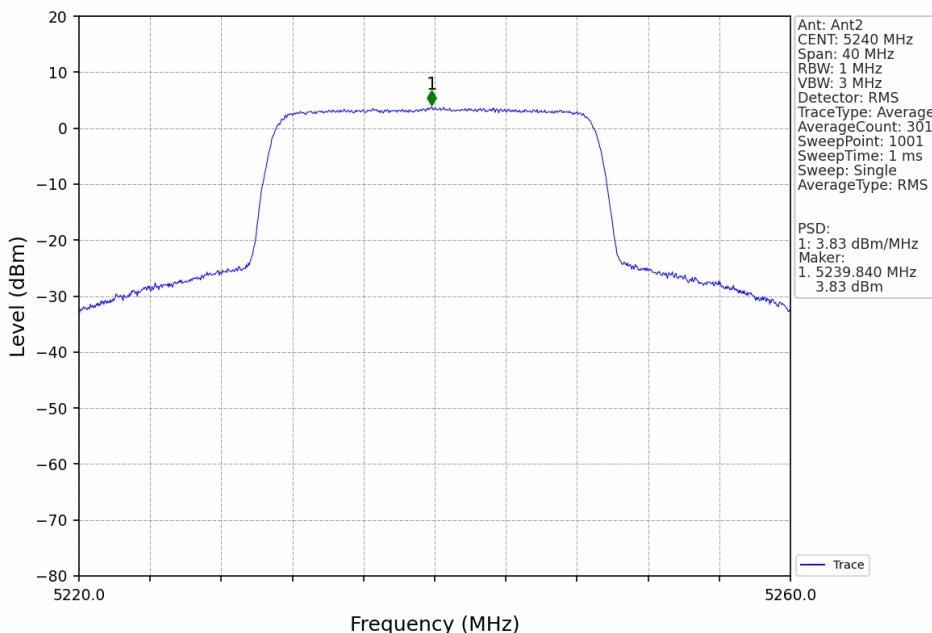
20M_LCH_5161MHz_Ant3_NTNV**20M_LCH_5161MHz_MIMO_NTNV**

20M_MCH_5200MHz_Ant2_NTNV**20M_MCH_5200MHz_Ant3_NTNV**

20M_MCH_5200MHz_MIMO_NTNV

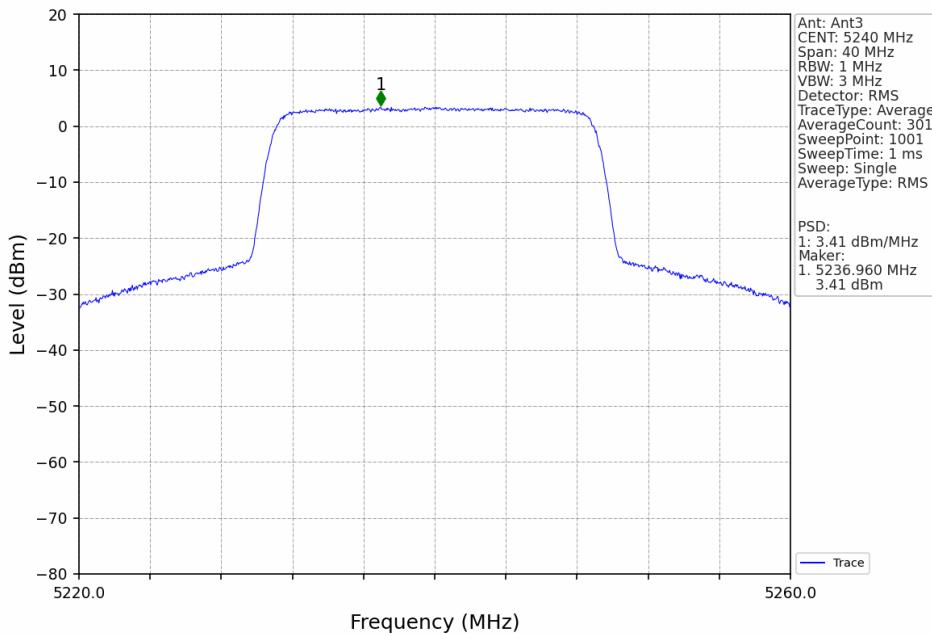
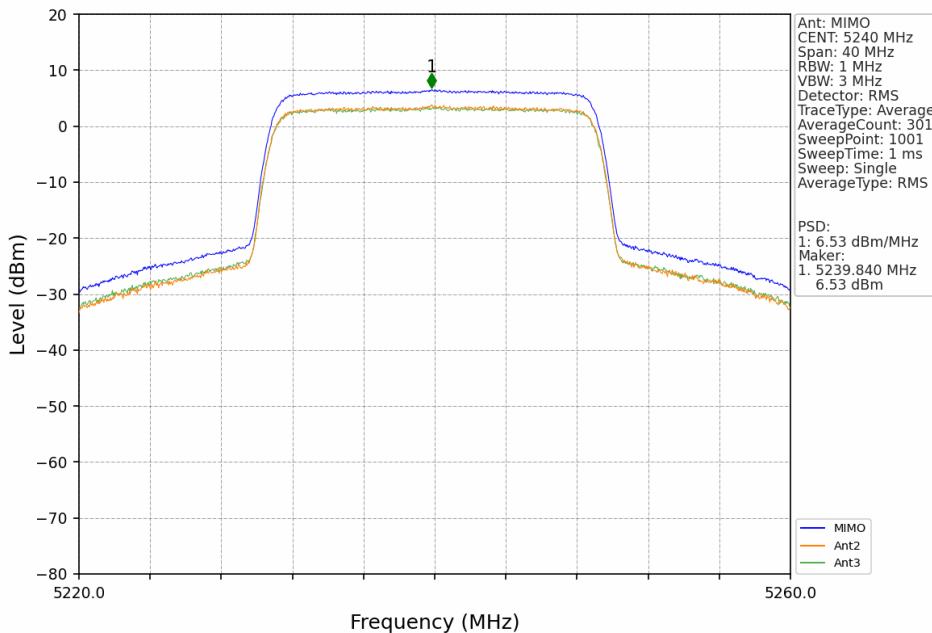


20M_HCH_5240MHz_Ant2_NTNV



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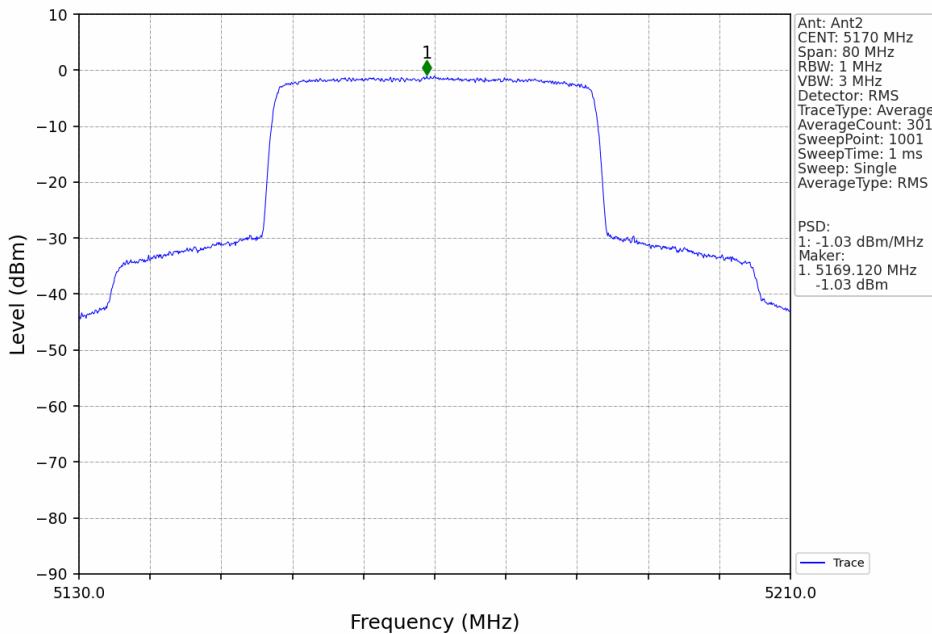
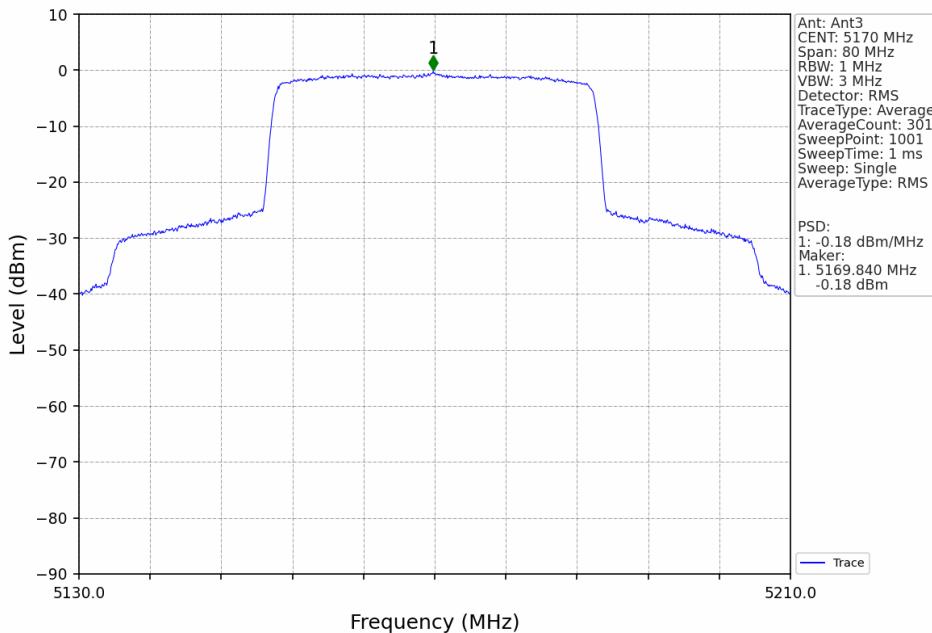
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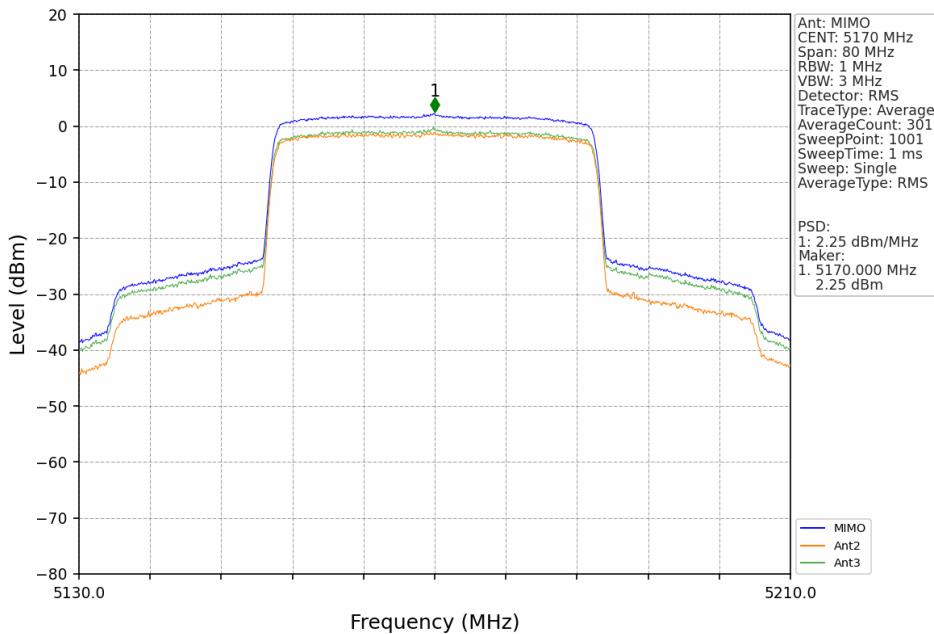
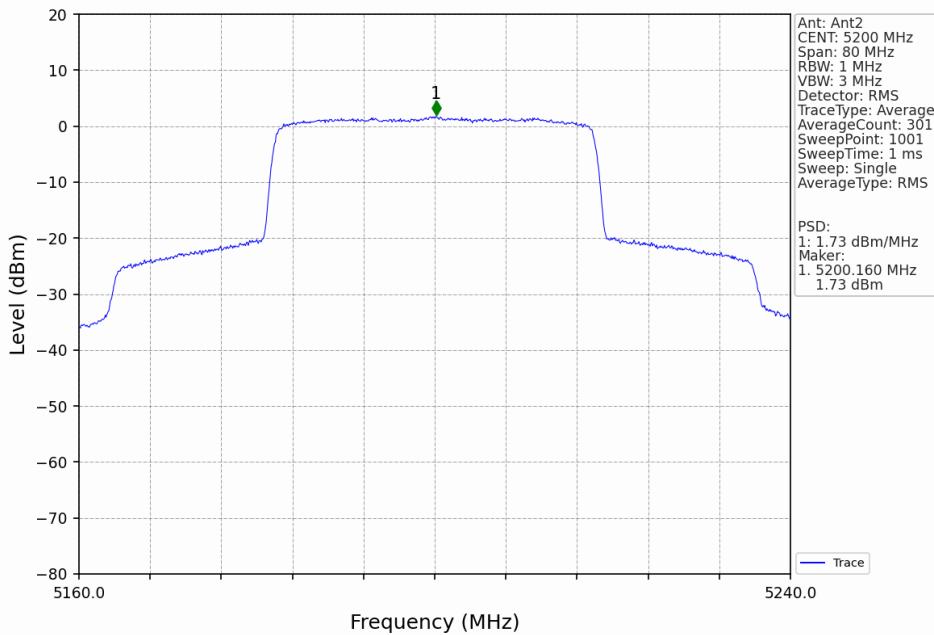
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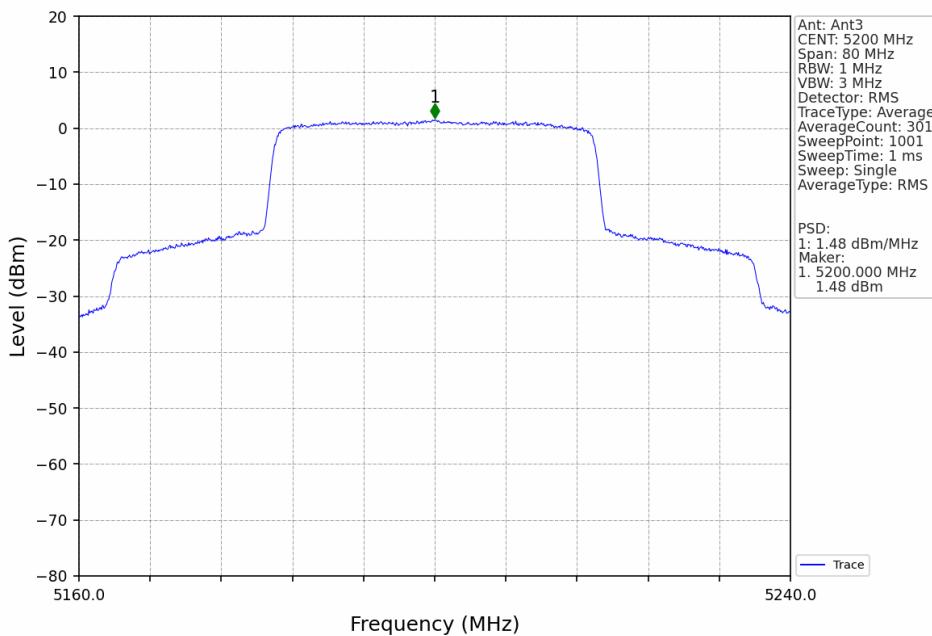
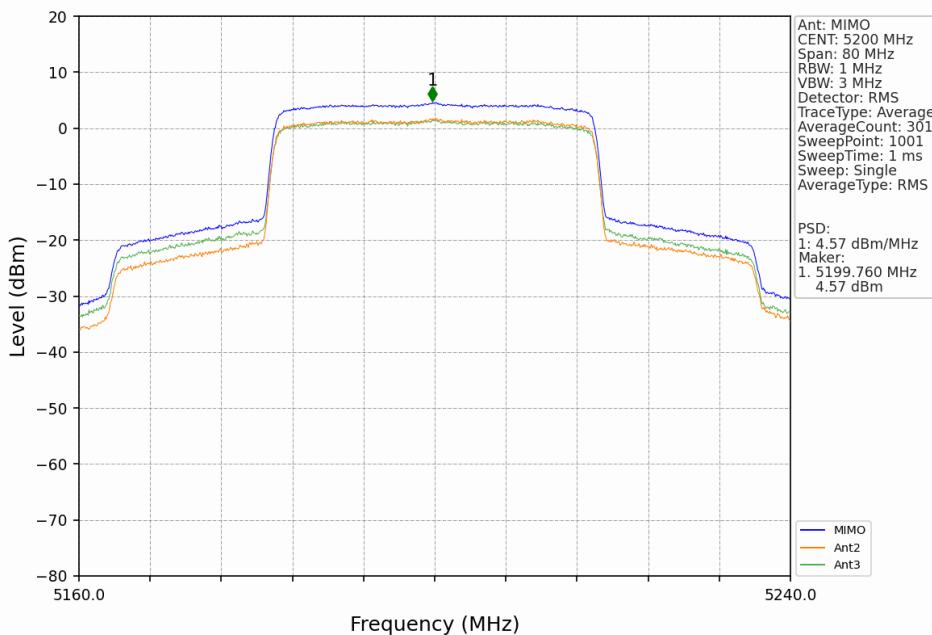
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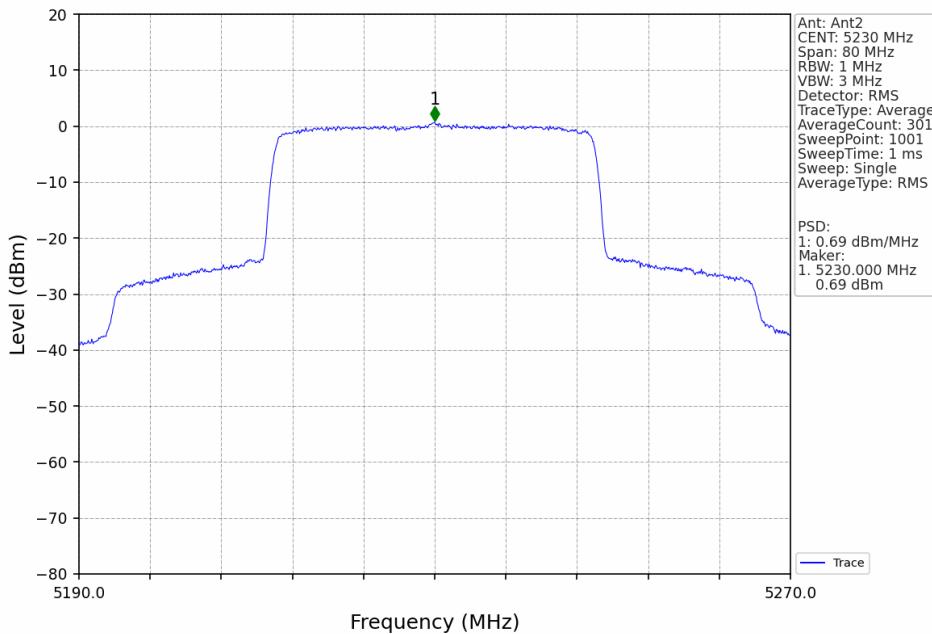
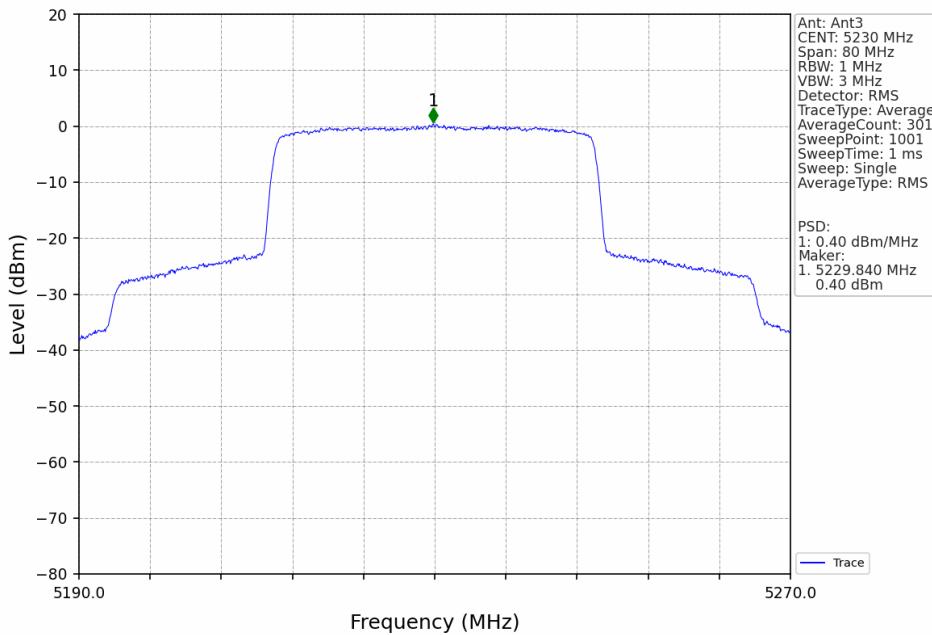
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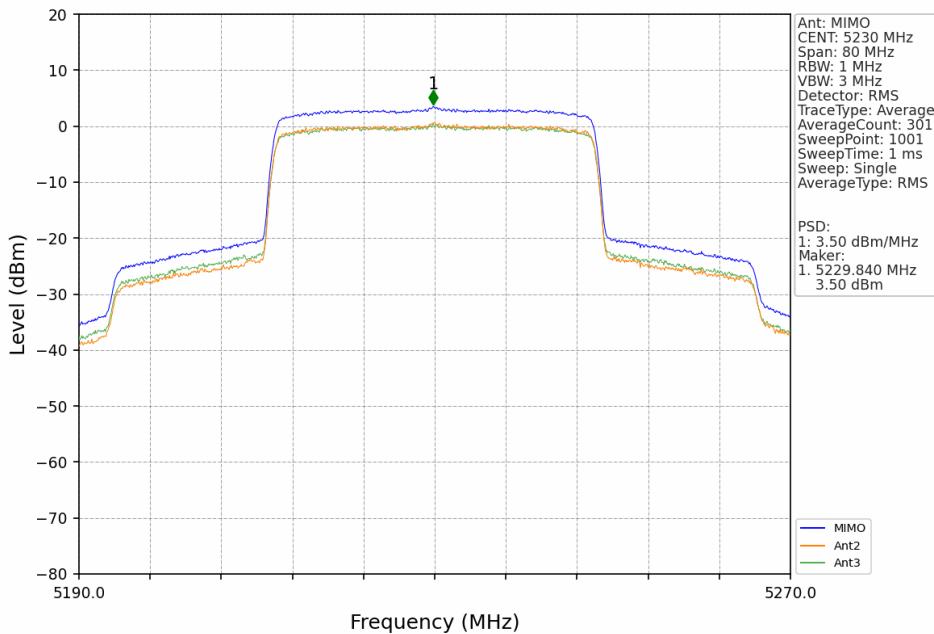
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40M_HCH_5230MHz_Ant2_NTNV**40M_HCH_5230MHz_Ant3_NTNV**

40M_HCH_5230MHz_MIMO_NTNV



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5. Frequency Stability

5.1 Test Result

5.1.1 Ant2

Ant2							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10M	MIMO	5157	20	4.25	5156.980	5150 to 5250	Pass
				5	5156.990	5150 to 5250	Pass
				5.75	5157.010	5150 to 5250	Pass
			-30	5	5156.990	5150 to 5250	Pass
			-20	5	5156.980	5150 to 5250	Pass
			-10	5	5156.970	5150 to 5250	Pass
			0	5	5156.970	5150 to 5250	Pass
			10	5	5156.960	5150 to 5250	Pass
			30	5	5156.990	5150 to 5250	Pass
			40	5	5156.990	5150 to 5250	Pass
			50	5	5156.970	5150 to 5250	Pass
		5200	20	4.25	5200.040	5150 to 5250	Pass
				5	5200.000	5150 to 5250	Pass
				5.75	5199.990	5150 to 5250	Pass
			-30	5	5200.010	5150 to 5250	Pass
			-20	5	5199.990	5150 to 5250	Pass
			-10	5	5199.980	5150 to 5250	Pass
			0	5	5200.020	5150 to 5250	Pass
			10	5	5200.020	5150 to 5250	Pass
			30	5	5200.030	5150 to 5250	Pass
			40	5	5200.010	5150 to 5250	Pass
			50	5	5199.990	5150 to 5250	Pass
		5245	20	4.25	5244.980	5150 to 5250	Pass
				5	5245.000	5150 to 5250	Pass
				5.75	5244.960	5150 to 5250	Pass
			-30	5	5245.000	5150 to 5250	Pass
			-20	5	5245.010	5150 to 5250	Pass
			-10	5	5244.970	5150 to 5250	Pass
			0	5	5245.000	5150 to 5250	Pass
			10	5	5244.990	5150 to 5250	Pass
			30	5	5245.010	5150 to 5250	Pass

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049106

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			40	5	5244.980	5150 to 5250	Pass		
			50	5	5244.980	5150 to 5250	Pass		
20M	MIMO	5161	20	4.25	5160.980	5150 to 5250	Pass		
				5	5160.980	5150 to 5250	Pass		
				5.75	5161.000	5150 to 5250	Pass		
				-30	5	5160.980	5150 to 5250	Pass	
				-20	5	5160.980	5150 to 5250	Pass	
				-10	5	5160.960	5150 to 5250	Pass	
				0	5	5160.980	5150 to 5250	Pass	
				10	5	5161.000	5150 to 5250	Pass	
				30	5	5160.980	5150 to 5250	Pass	
				40	5	5160.980	5150 to 5250	Pass	
				50	5	5160.980	5150 to 5250	Pass	
			5200	20	4.25	5199.980	5150 to 5250	Pass	
					5	5200.000	5150 to 5250	Pass	
					5.75	5199.980	5150 to 5250	Pass	
				-30	5	5199.960	5150 to 5250	Pass	
				-20	5	5199.980	5150 to 5250	Pass	
				-10	5	5199.980	5150 to 5250	Pass	
				0	5	5199.980	5150 to 5250	Pass	
				10	5	5199.960	5150 to 5250	Pass	
				30	5	5199.980	5150 to 5250	Pass	
				40	5	5199.980	5150 to 5250	Pass	
				50	5	5200.000	5150 to 5250	Pass	
			5240	20	4.25	5239.980	5150 to 5250	Pass	
					5	5239.980	5150 to 5250	Pass	
					5.75	5239.960	5150 to 5250	Pass	
				-30	5	5239.980	5150 to 5250	Pass	
				-20	5	5239.980	5150 to 5250	Pass	
				-10	5	5240.000	5150 to 5250	Pass	
				0	5	5239.960	5150 to 5250	Pass	
				10	5	5239.960	5150 to 5250	Pass	
				30	5	5240.000	5150 to 5250	Pass	
				40	5	5239.980	5150 to 5250	Pass	
				50	5	5239.980	5150 to 5250	Pass	
				20	4.25	5170.000	5150 to 5250	Pass	
					5	5169.960	5150 to 5250	Pass	
					5.75	5169.960	5150 to 5250	Pass	
					-30	5	5170.000	5150 to 5250	Pass
					-20	5	5169.960	5150 to 5250	Pass
40M	MIMO	5170							

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			-10	5	5169.960	5150 to 5250	Pass
			0	5	5169.960	5150 to 5250	Pass
			10	5	5169.960	5150 to 5250	Pass
			30	5	5169.960	5150 to 5250	Pass
			40	5	5170.000	5150 to 5250	Pass
			50	5	5169.960	5150 to 5250	Pass
	5200	20		4.25	5200.000	5150 to 5250	Pass
				5	5199.960	5150 to 5250	Pass
				5.75	5200.000	5150 to 5250	Pass
		-30	5	5199.960	5150 to 5250	Pass	
		-20	5	5200.000	5150 to 5250	Pass	
		-10	5	5200.000	5150 to 5250	Pass	
		0	5	5199.960	5150 to 5250	Pass	
		10	5	5200.000	5150 to 5250	Pass	
		30	5	5200.000	5150 to 5250	Pass	
		40	5	5199.960	5150 to 5250	Pass	
		50	5	5200.000	5150 to 5250	Pass	
	5230	20		4.25	5229.960	5150 to 5250	Pass
				5	5229.960	5150 to 5250	Pass
				5.75	5229.960	5150 to 5250	Pass
		-30	5	5230.000	5150 to 5250	Pass	
		-20	5	5229.960	5150 to 5250	Pass	
		-10	5	5229.960	5150 to 5250	Pass	
		0	5	5229.960	5150 to 5250	Pass	
		10	5	5229.960	5150 to 5250	Pass	
		30	5	5230.000	5150 to 5250	Pass	
		40	5	5230.000	5150 to 5250	Pass	
		50	5	5230.000	5150 to 5250	Pass	

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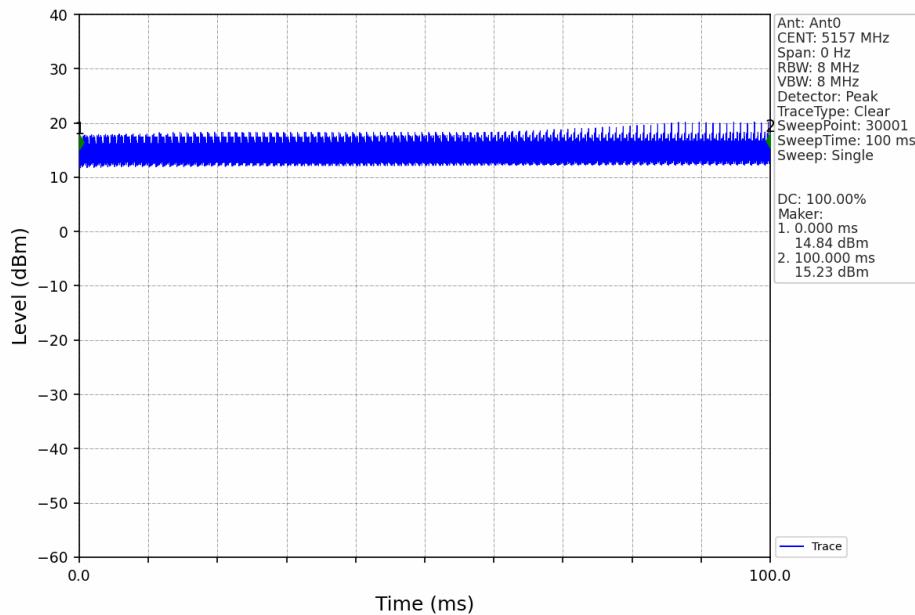
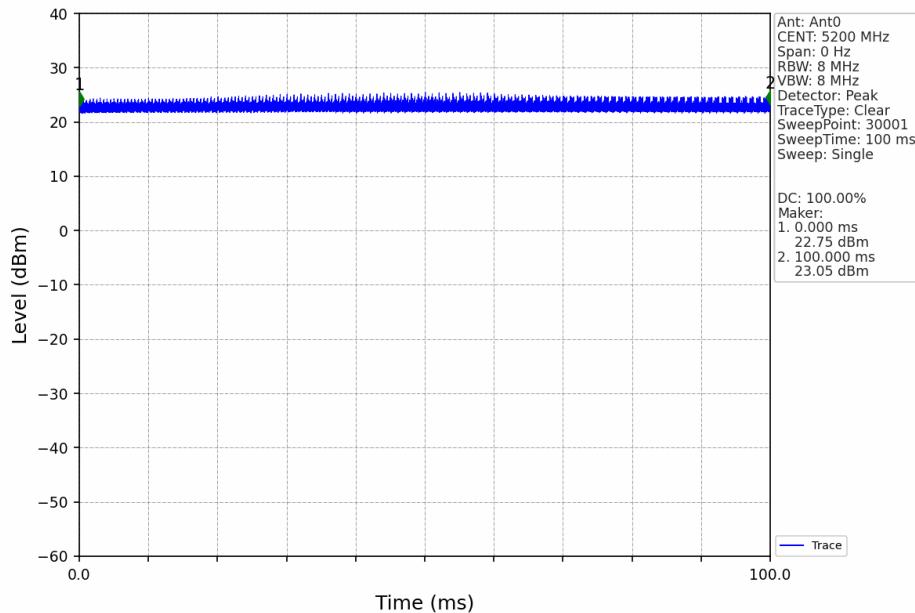


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5.1 SDRANT0&1 Test data**1. Duty Cycle****1.1 Test Result****1.1.1 Ant0**

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
10M	MIMO	5157	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
20M	MIMO	5161	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
40M	MIMO	5170	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00



1.2 Test Graph**1.2.1 Ant0****10M_LCH_5157MHz_Ant0_NTNV****10M_MCH_5200MHz_Ant0_NTNV**

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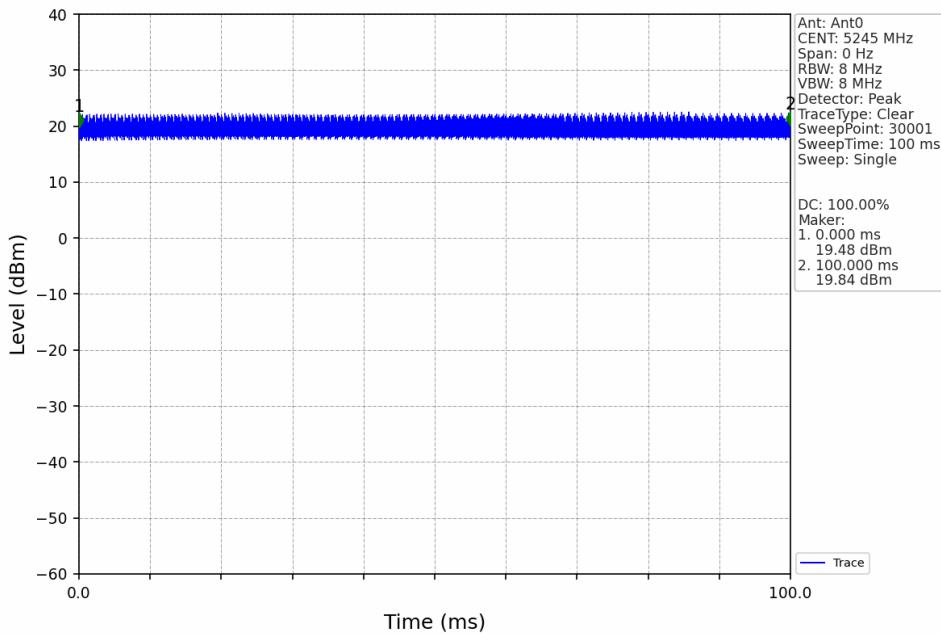
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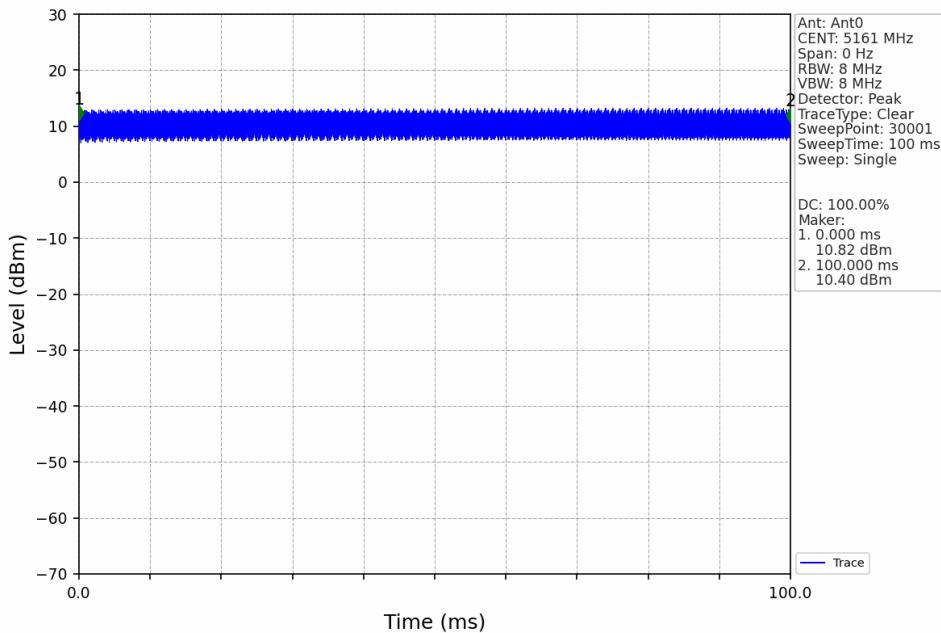
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10M_HCH_5245MHz_Ant0_NTNV



20M_LCH_5161MHz_Ant0_NTNV

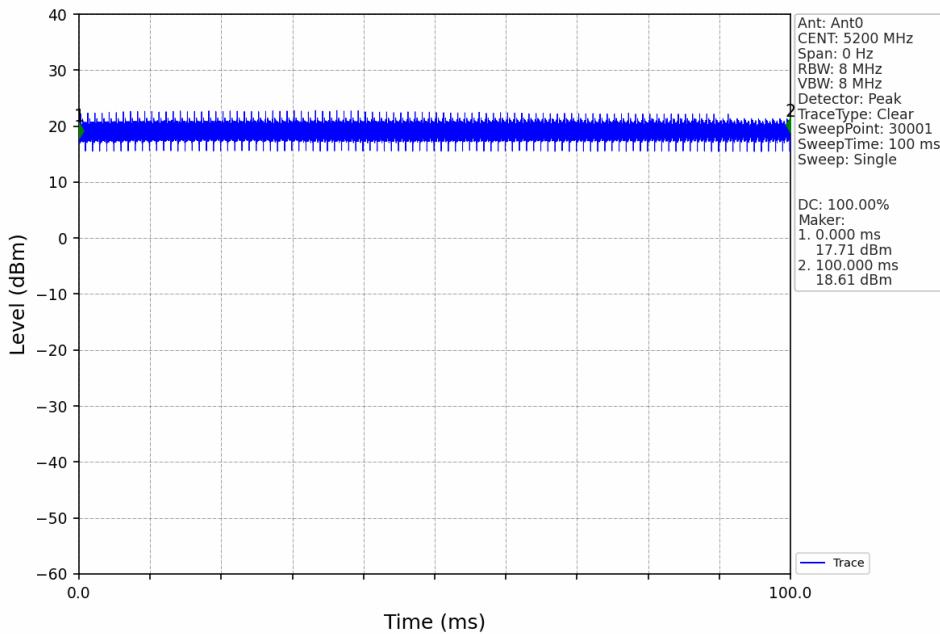
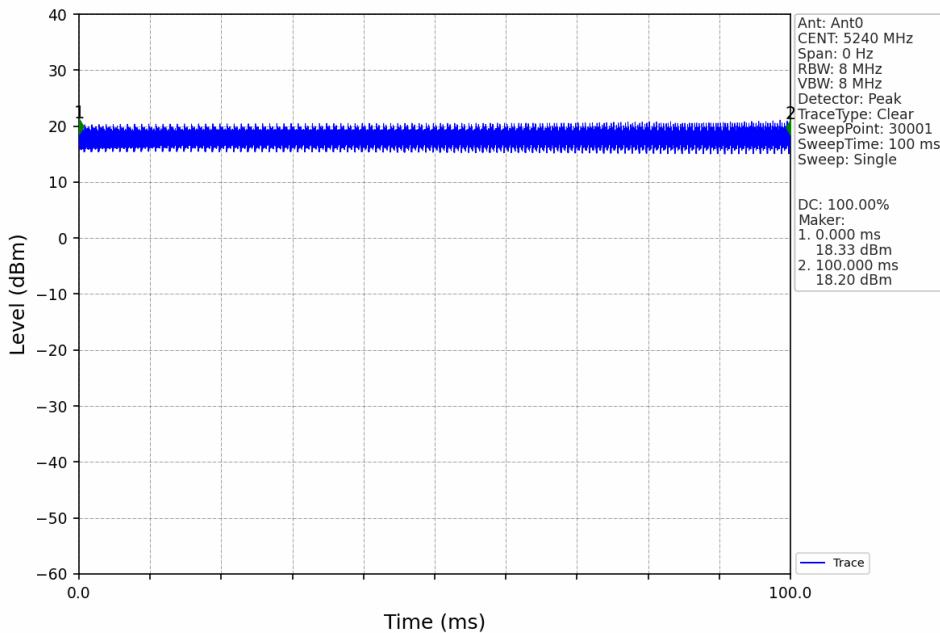


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20M_MCH_5200MHz_Ant0_NTNV**20M_HCH_5240MHz_Ant0_NTNV**

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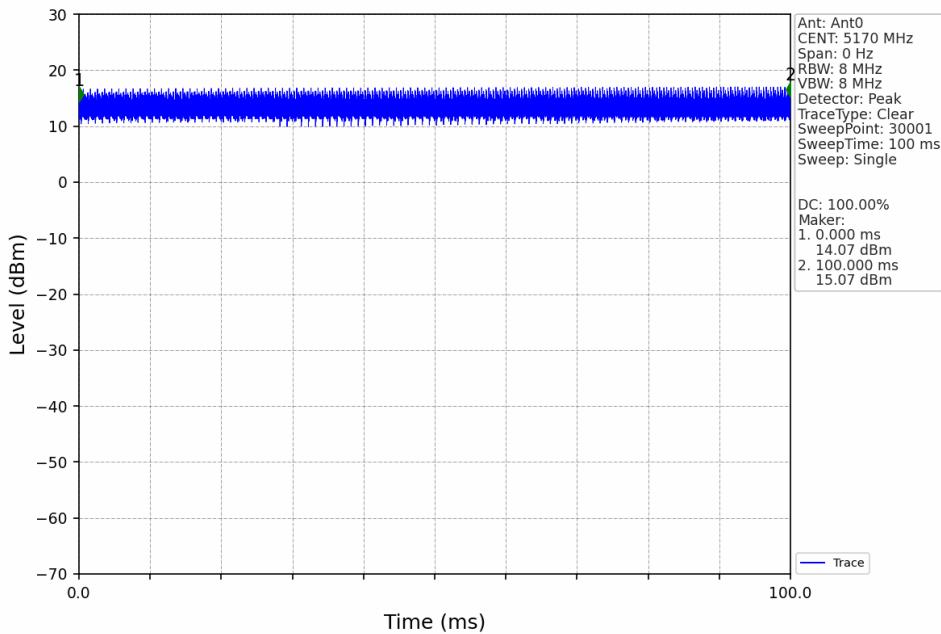
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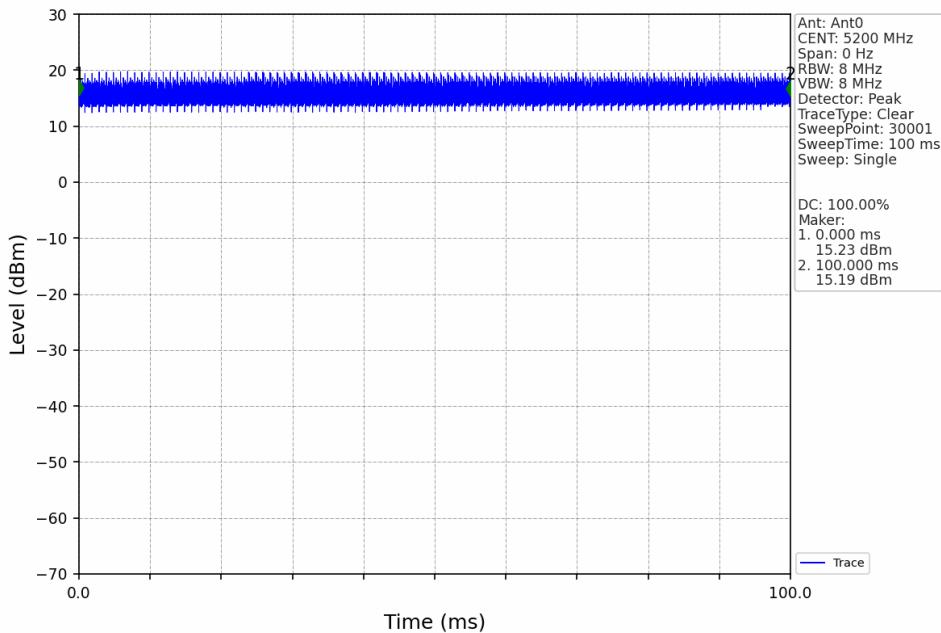
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40M_LCH_5170MHz_Ant0_NTNV



40M_MCH_5200MHz_Ant0_NTNV



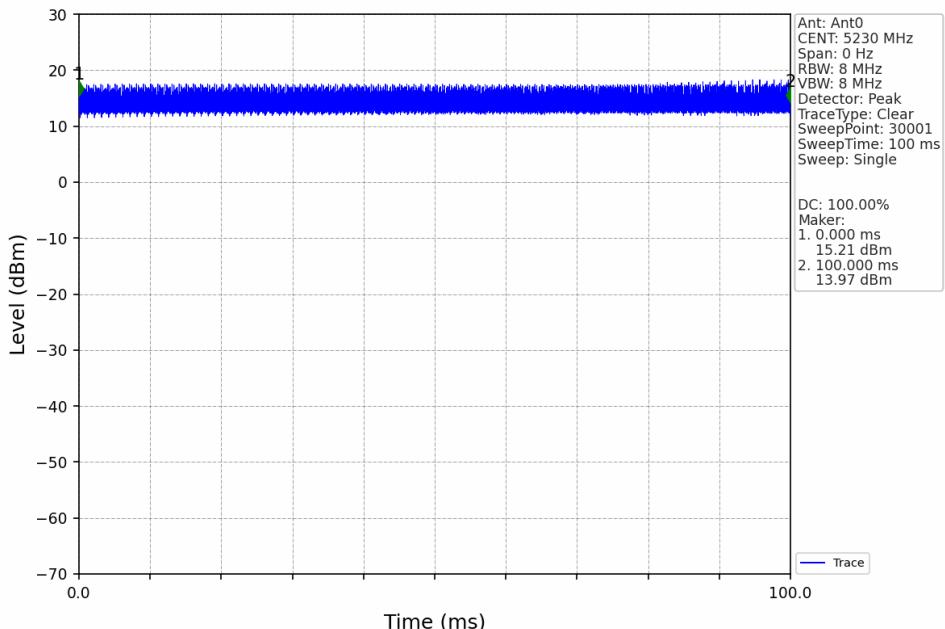
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40M_HCH_5230MHz_Ant0_NTNV



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2. Bandwidth

2.1 Test Result

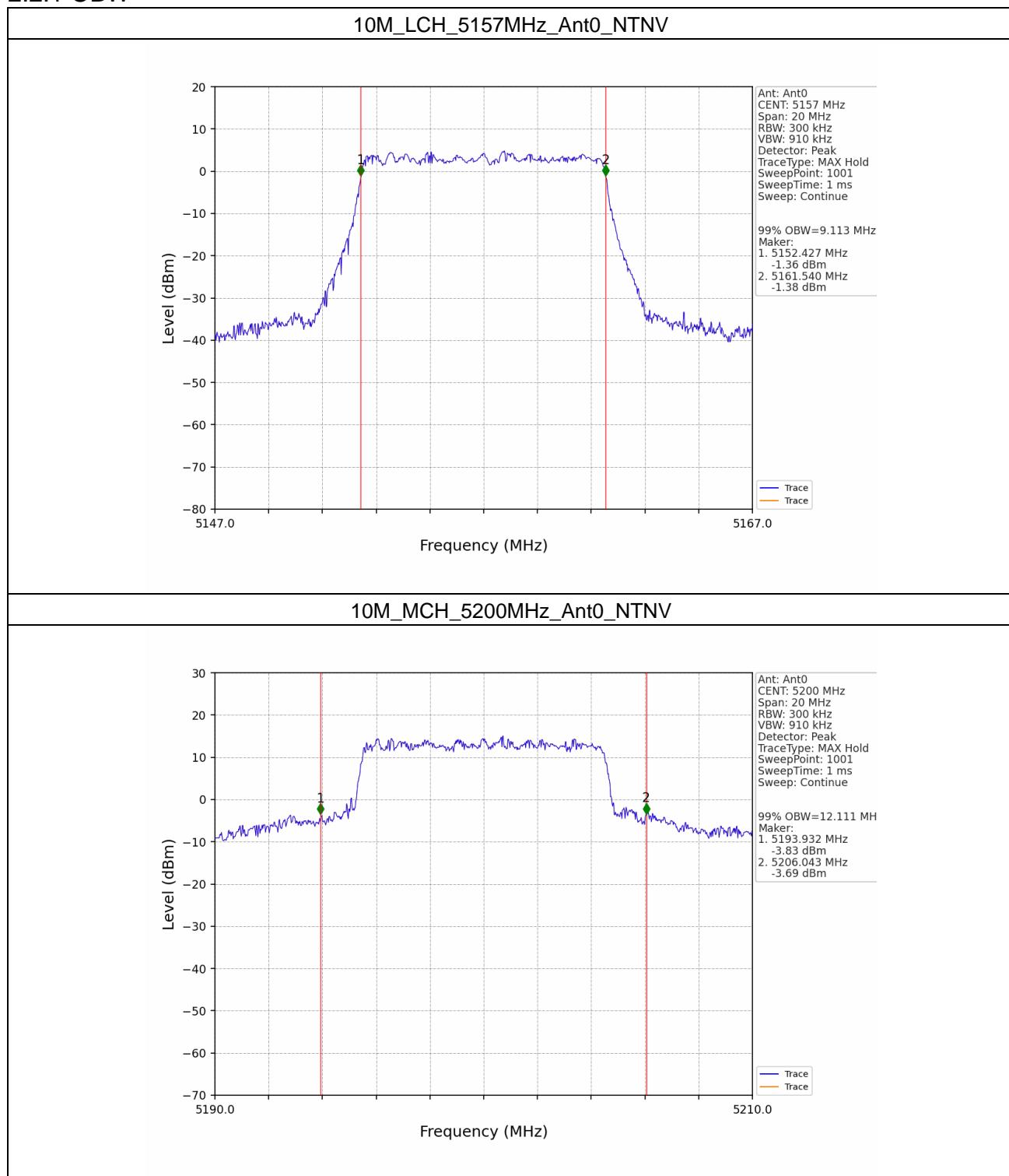
2.1.1 OBW

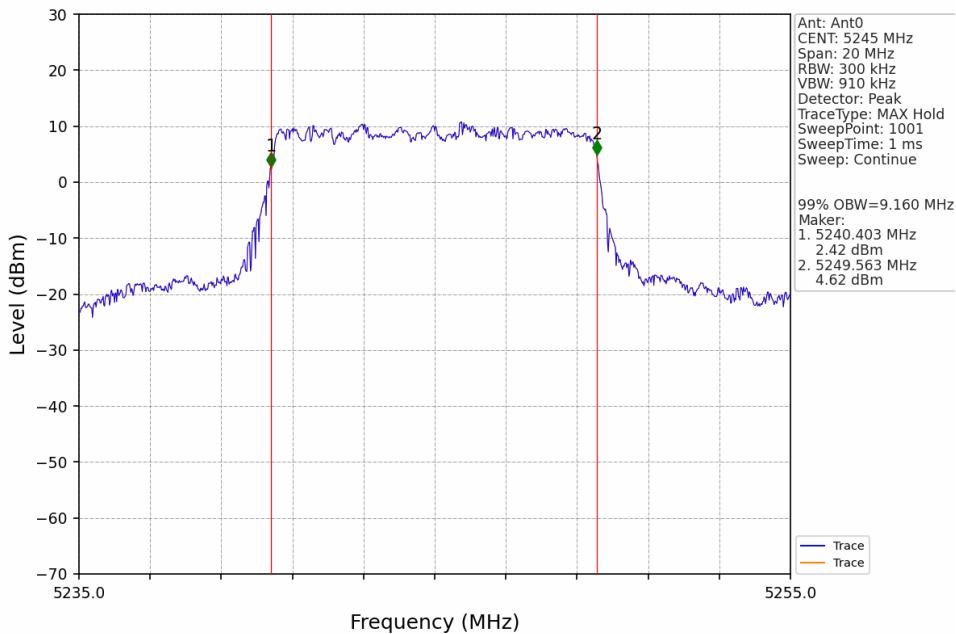
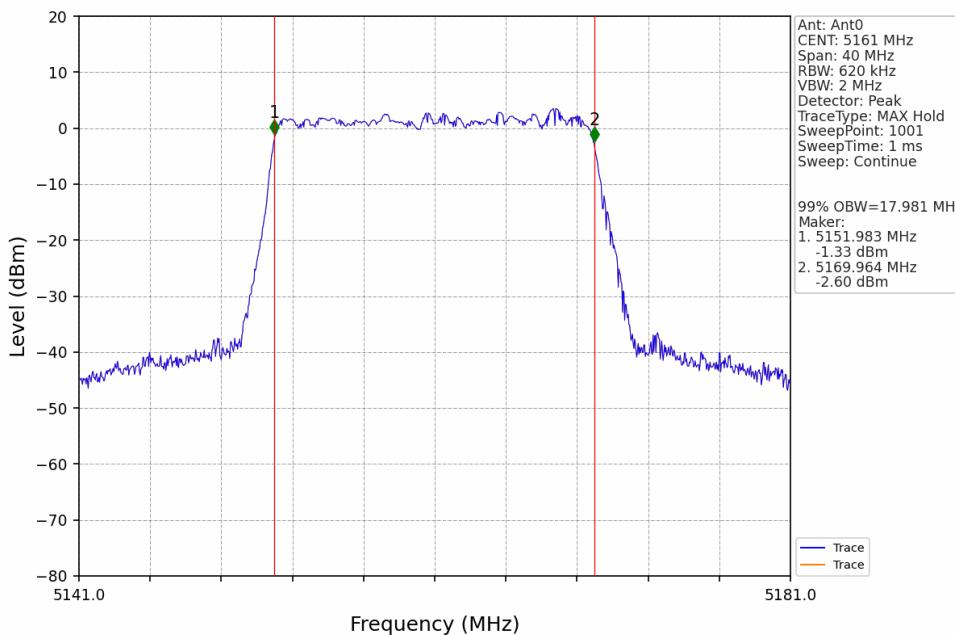
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5157	0	9.113	/	Pass
		5200	0	12.111	/	Pass
		5245	0	9.160	/	Pass
20M	MIMO	5161	0	17.981	/	Pass
		5200	0	18.223	/	Pass
		5240	0	18.115	/	Pass
40M	MIMO	5170	0	36.244	/	Pass
		5200	0	40.055	/	Pass
		5230	0	36.705	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5157	0	10.033	/	Pass
		5200	0	21.689	/	Pass
		5245	0	10.483	/	Pass
20M	MIMO	5161	0	19.135	/	Pass
		5200	0	22.599	/	Pass
		5240	0	19.980	/	Pass
40M	MIMO	5170	0	51.089	/	Pass
		5200	0	71.625	/	Pass
		5230	0	70.189	/	Pass



2.2 Test Graph**2.2.1 OBW**

10M_HCH_5245MHz_Ant0_NTNV**20M_LCH_5161MHz_Ant0_NTNV**

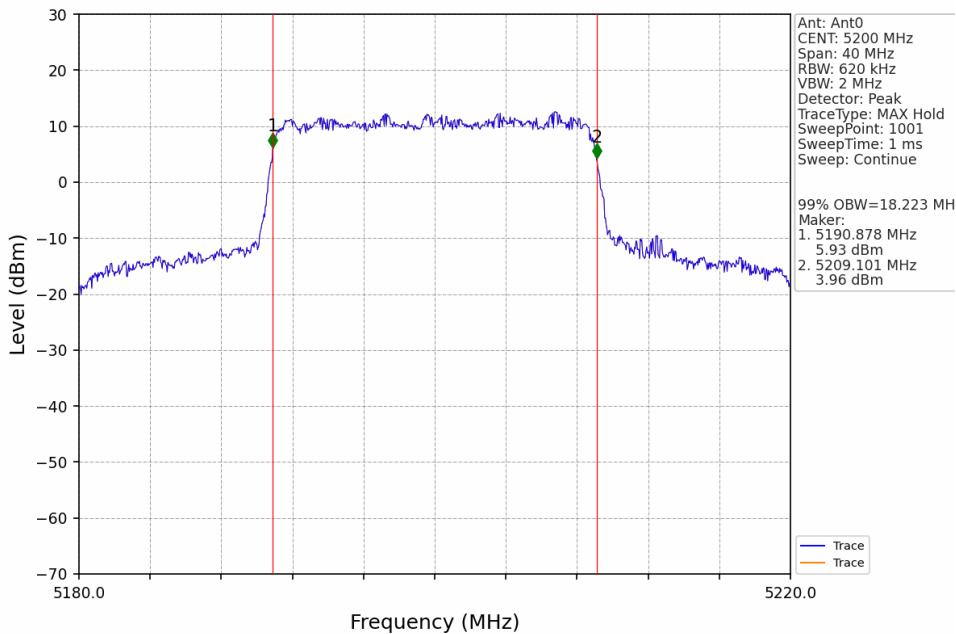
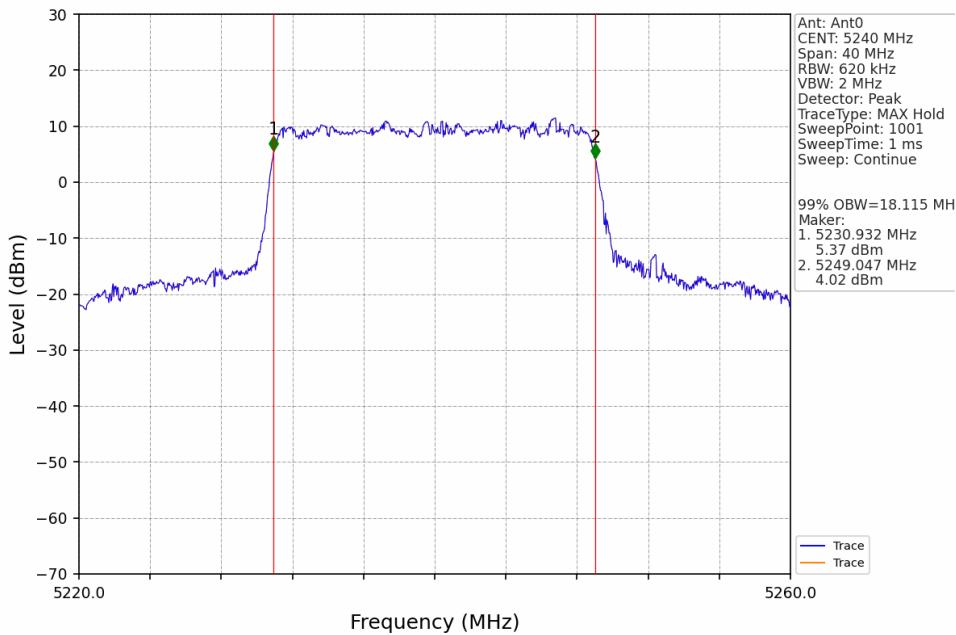
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20M_MCH_5200MHz_Ant0_NTNV**20M_HCH_5240MHz_Ant0_NTNV**

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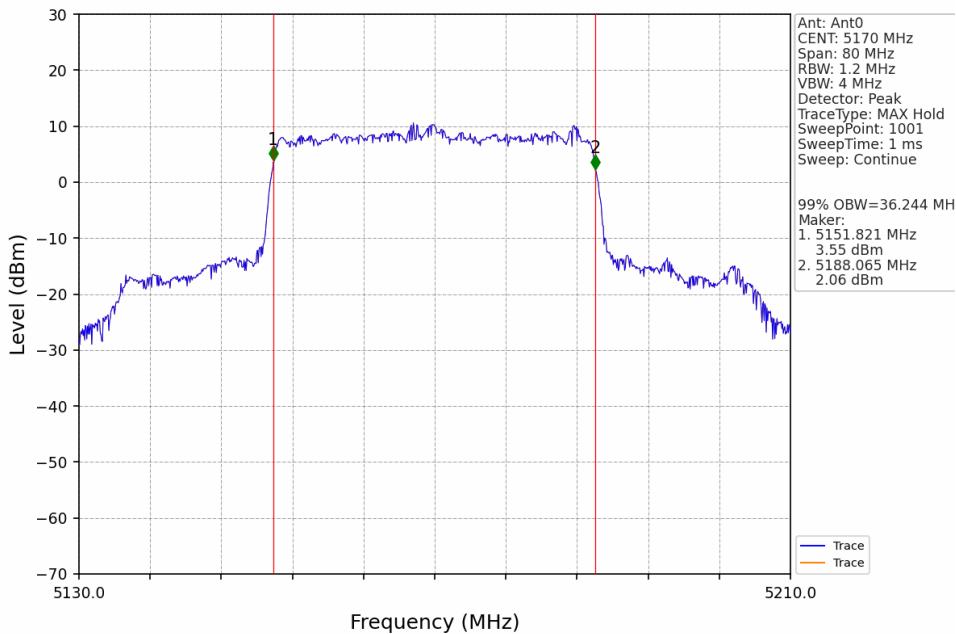
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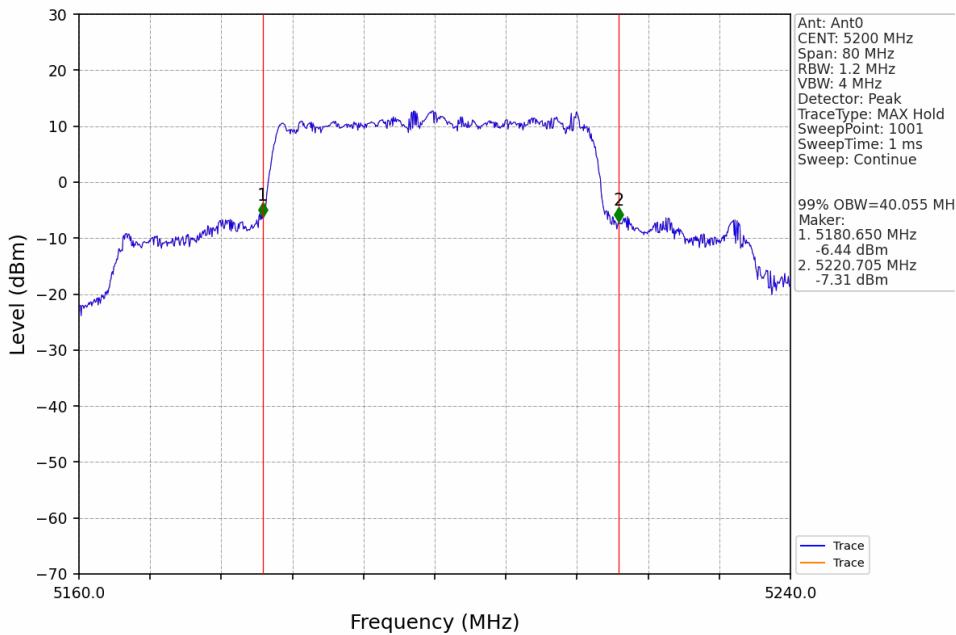
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40M_LCH_5170MHz_Ant0_NTNV



40M_MCH_5200MHz_Ant0_NTNV



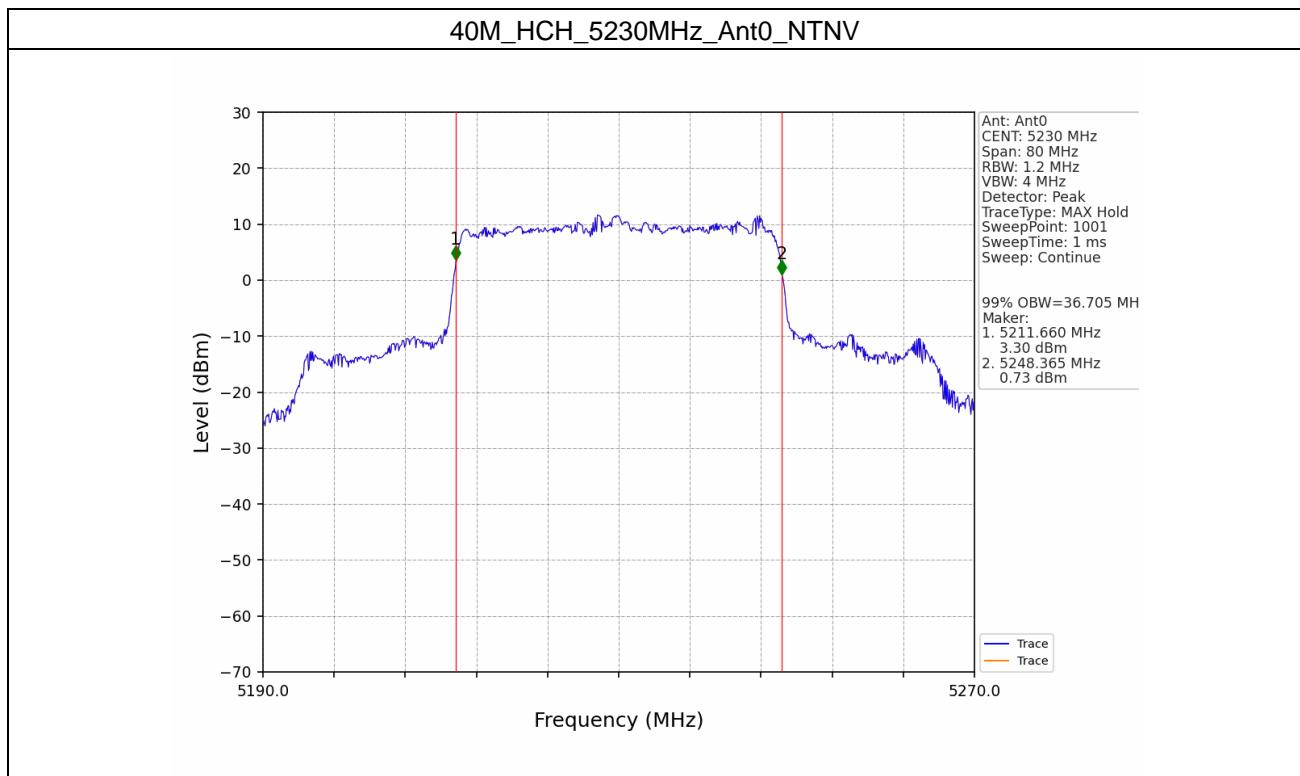
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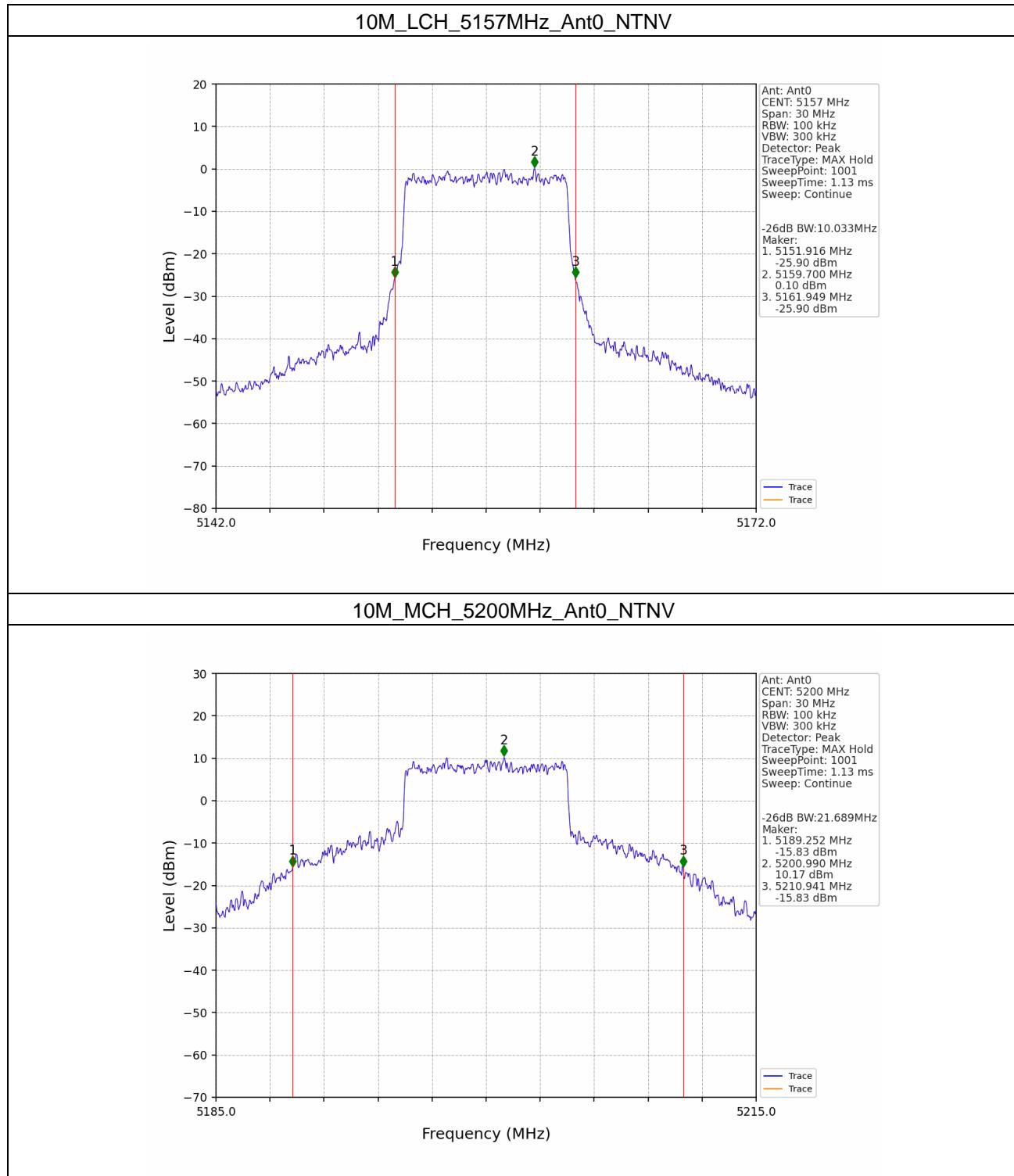
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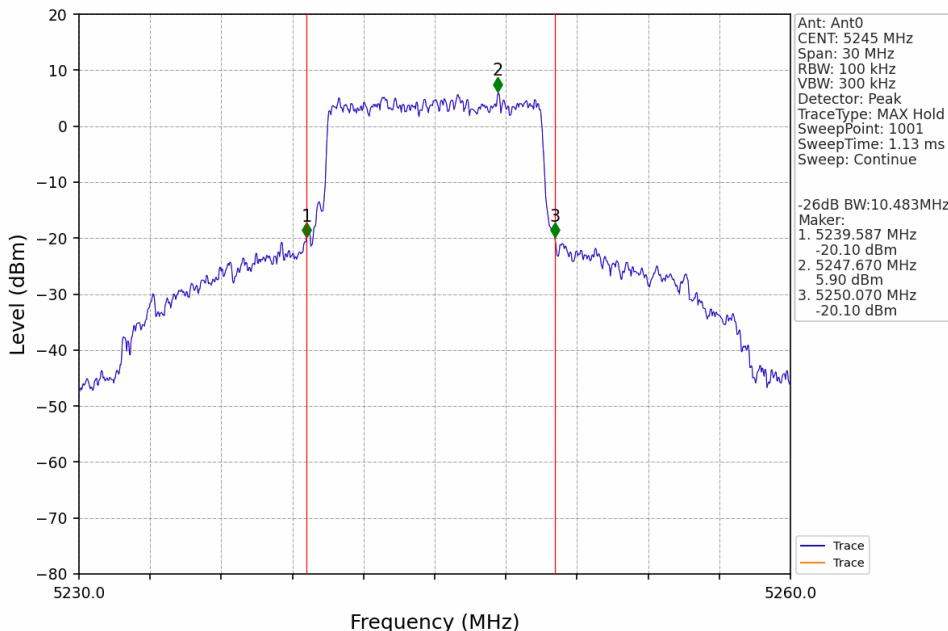
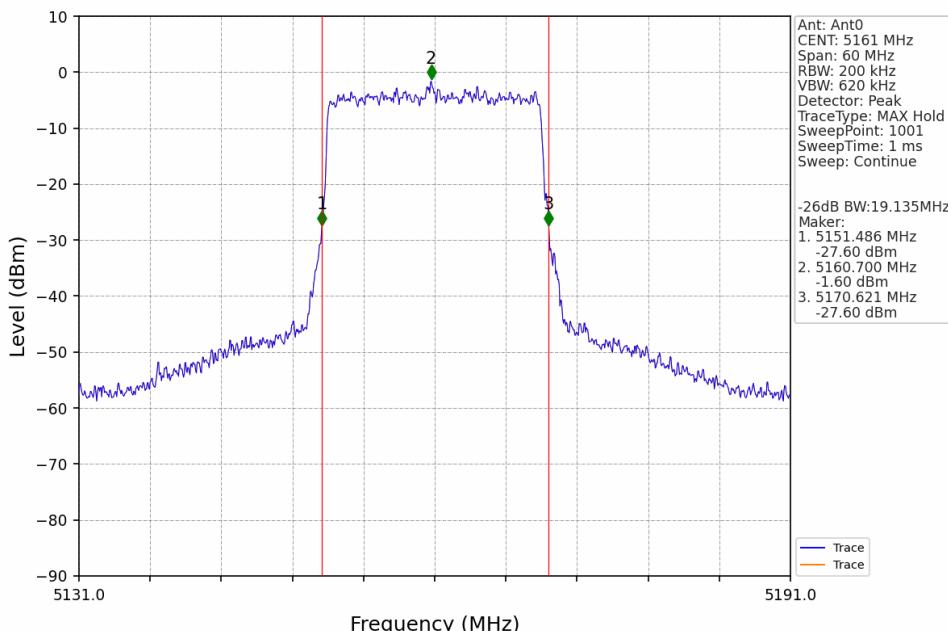
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2.2.2 26dB BW

10M_HCH_5245MHz_Ant0_NTNV**20M_LCH_5161MHz_Ant0_NTNV**

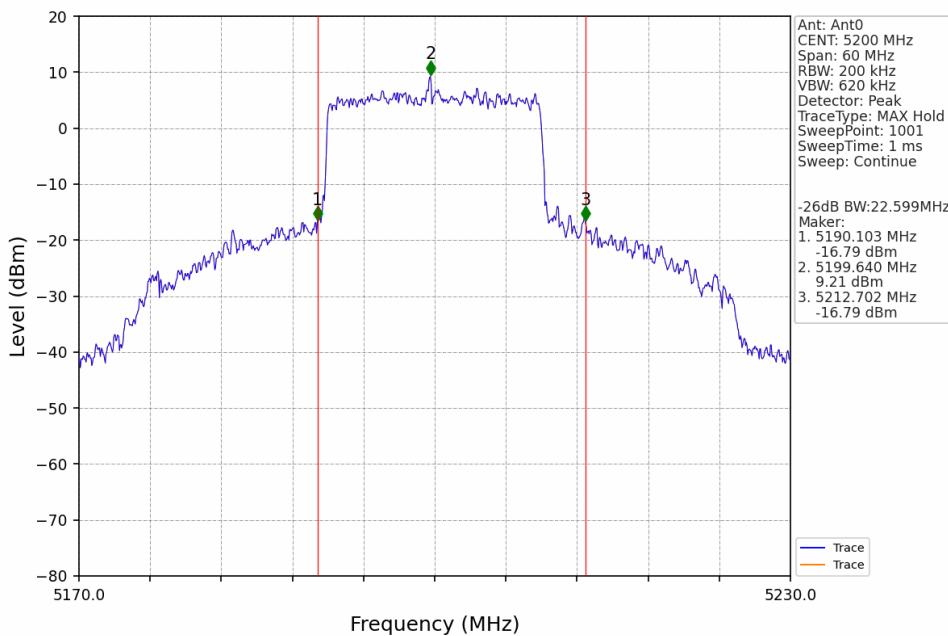
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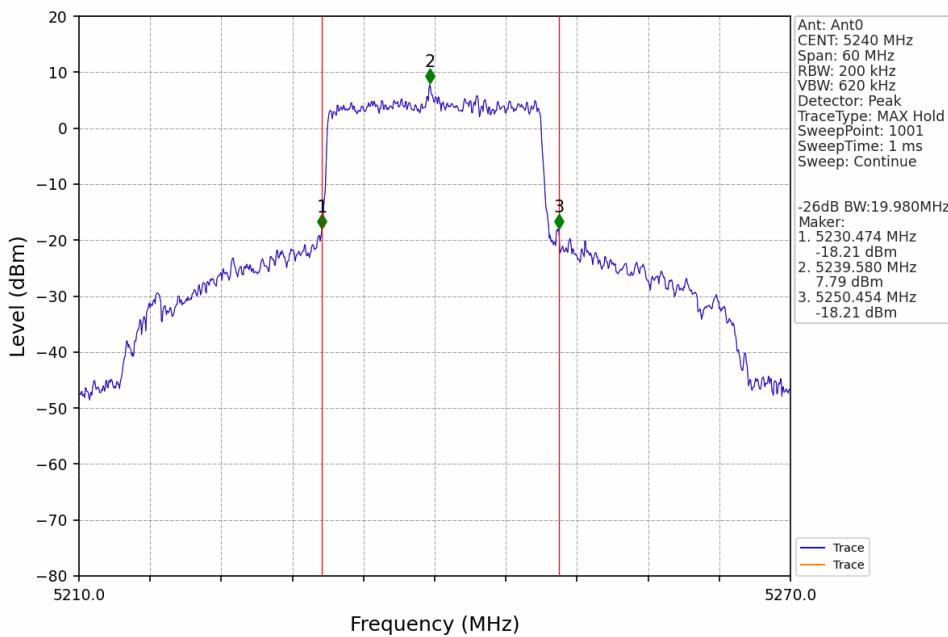
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20M_MCH_5200MHz_Ant0_NTNV



20M_HCH_5240MHz_Ant0_NTNV



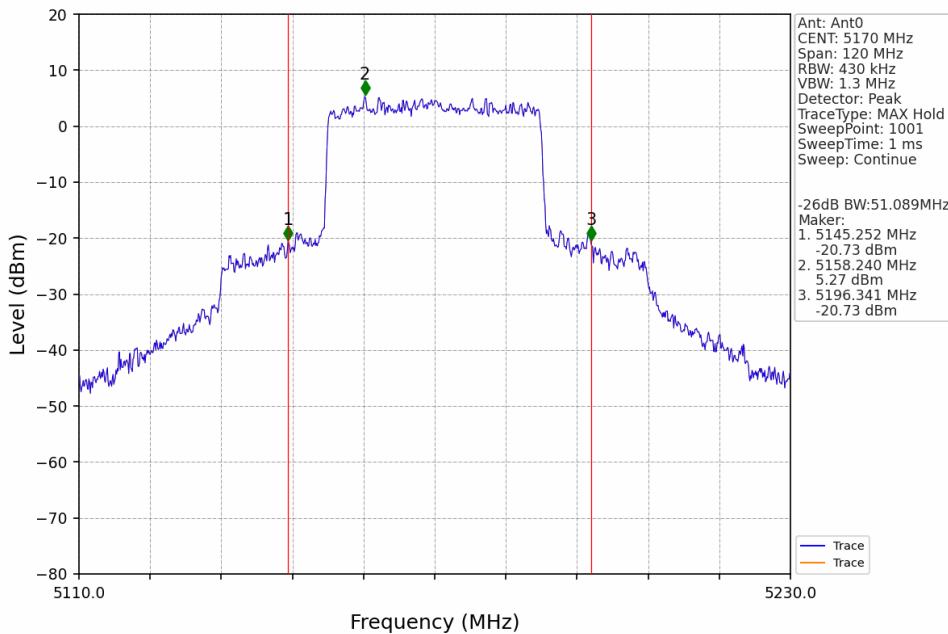
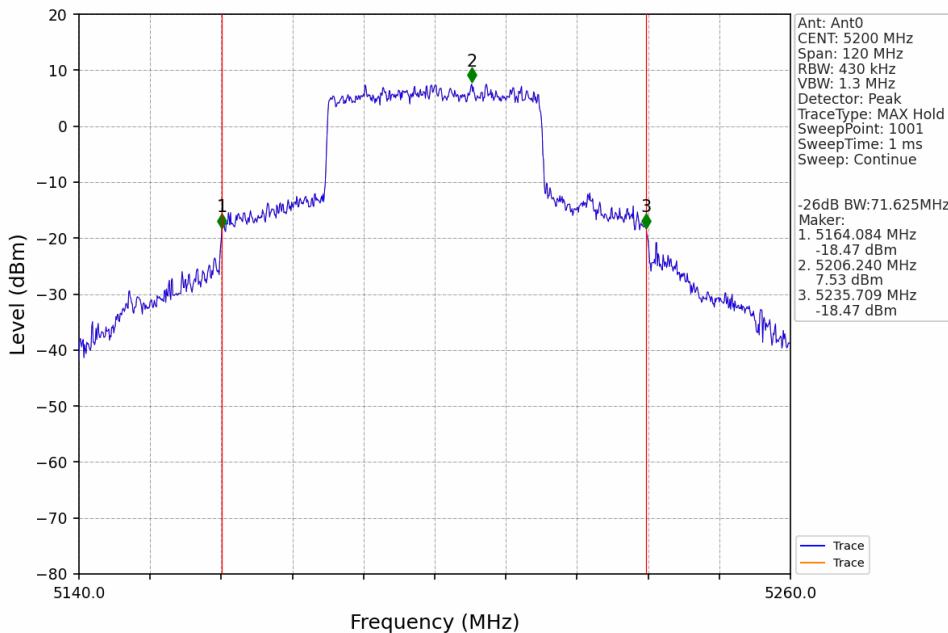
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40M_LCH_5170MHz_Ant0_NTNV**40M_MCH_5200MHz_Ant0_NTNV**

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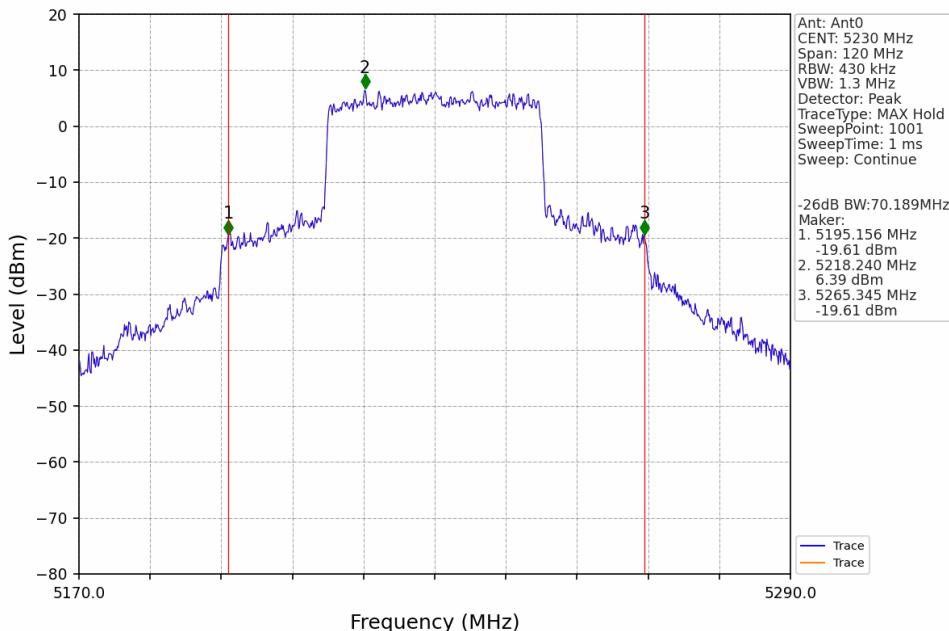
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40M_HCH_5230MHz_Ant0_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT0	ANT1	MIMO	Limit	
10M	MIMO	5157	8.94	8.23	11.61	<=30	Pass
		5200	16.27	16.04	19.17	<=30	Pass
		5245	14.86	14.72	17.80	<=30	Pass
20M	MIMO	5161	12.15	11.56	14.88	<=30	Pass
		5200	16.28	16.00	19.15	<=30	Pass
		5240	14.93	14.73	17.84	<=30	Pass
40M	MIMO	5170	13.32	12.87	16.11	<=30	Pass
		5200	15.98	15.86	18.93	<=30	Pass
		5230	14.61	14.93	17.78	<=30	Pass

Note: Ant0=Ant1=1dBi

5200MHz: MAX EIRP=EIRP Ant0+EIRP Ant1=20.17=103.92mW<125mW

Meets the requirements of FCC Part 15.407a

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

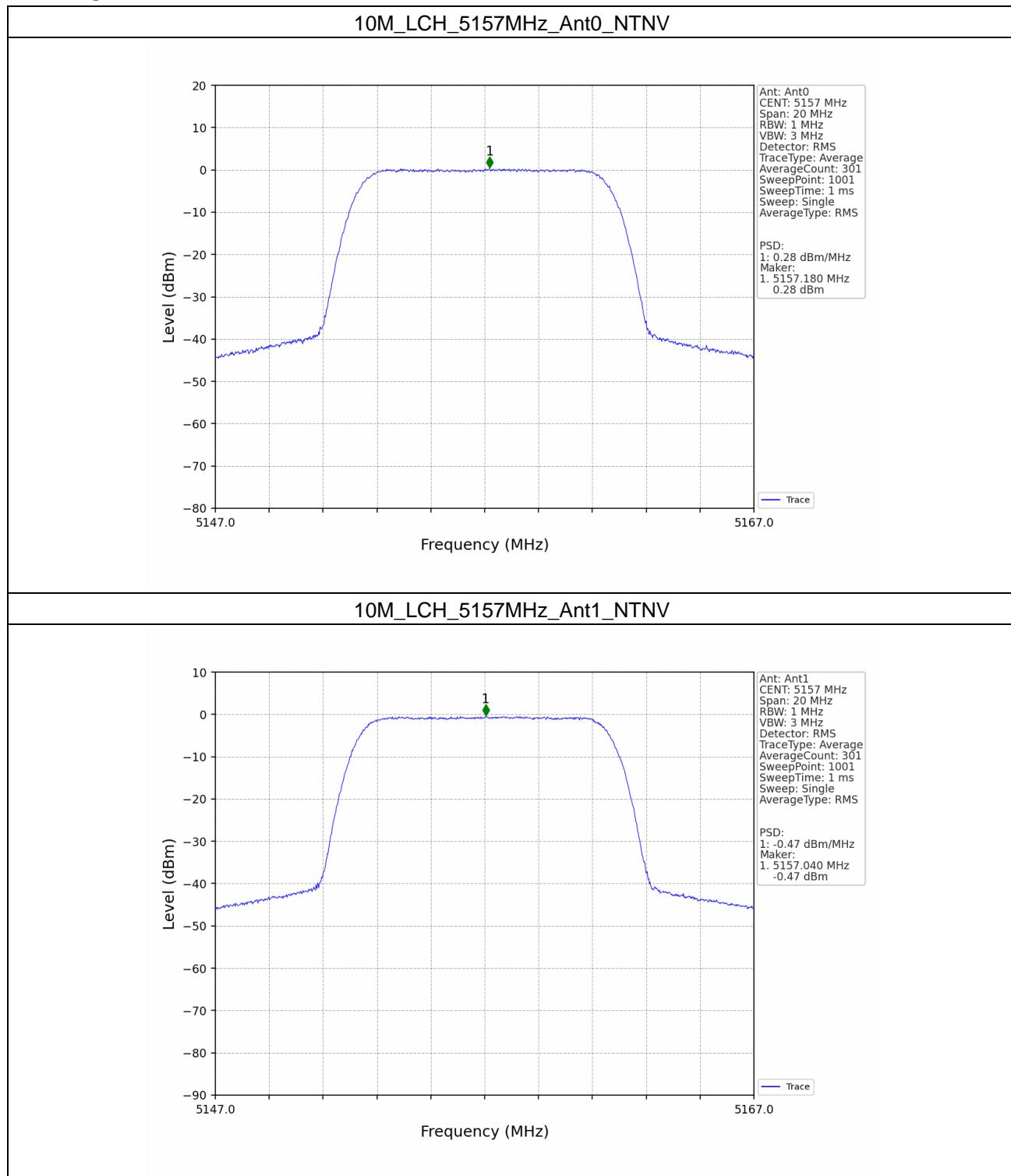
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
10M	MIMO	5157	0.28	-0.47	2.84	<=17	Pass
		5200	7.56	7.26	10.39	<=17	Pass
		5245	6.23	6.12	9.01	<=17	Pass
20M	MIMO	5161	0.65	-0.06	3.26	<=17	Pass
		5200	4.77	4.53	7.50	<=17	Pass
		5240	3.47	3.17	6.23	<=17	Pass
40M	MIMO	5170	-1.03	-1.35	1.66	<=17	Pass
		5200	1.65	1.71	4.60	<=17	Pass
		5230	0.08	0.52	3.26	<=17	Pass

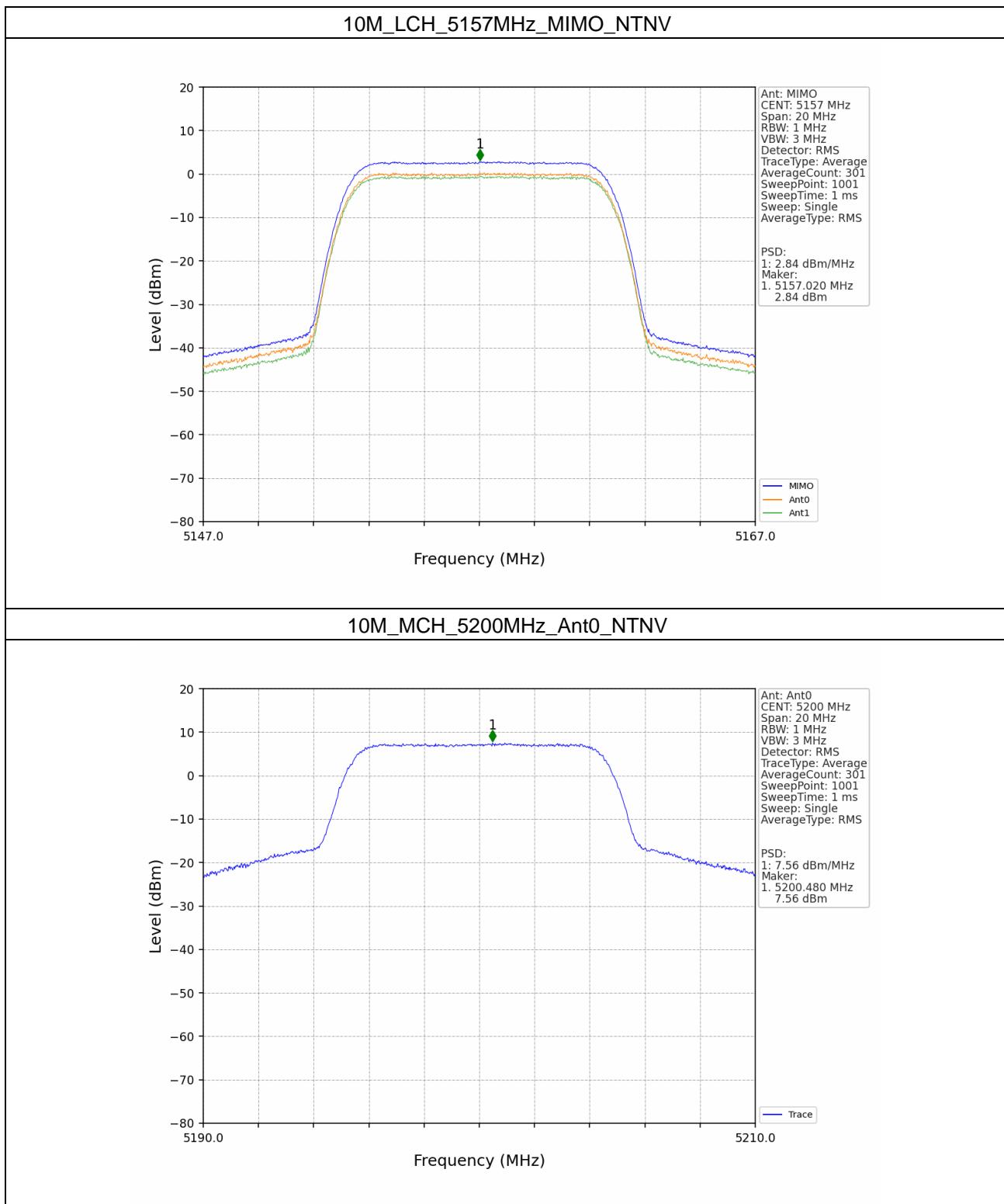
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4.2 Test Graph**4.2.1 PSD**



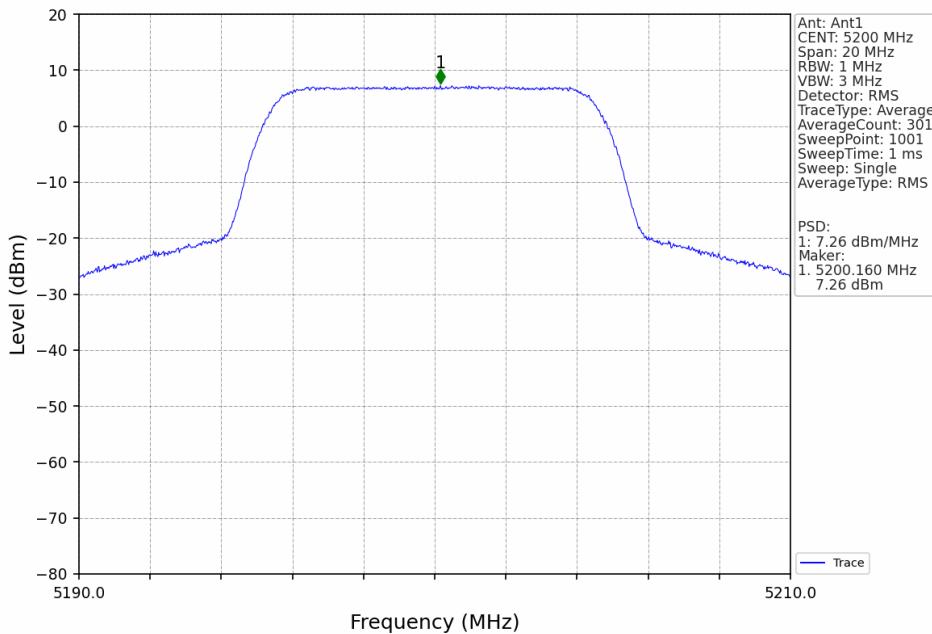
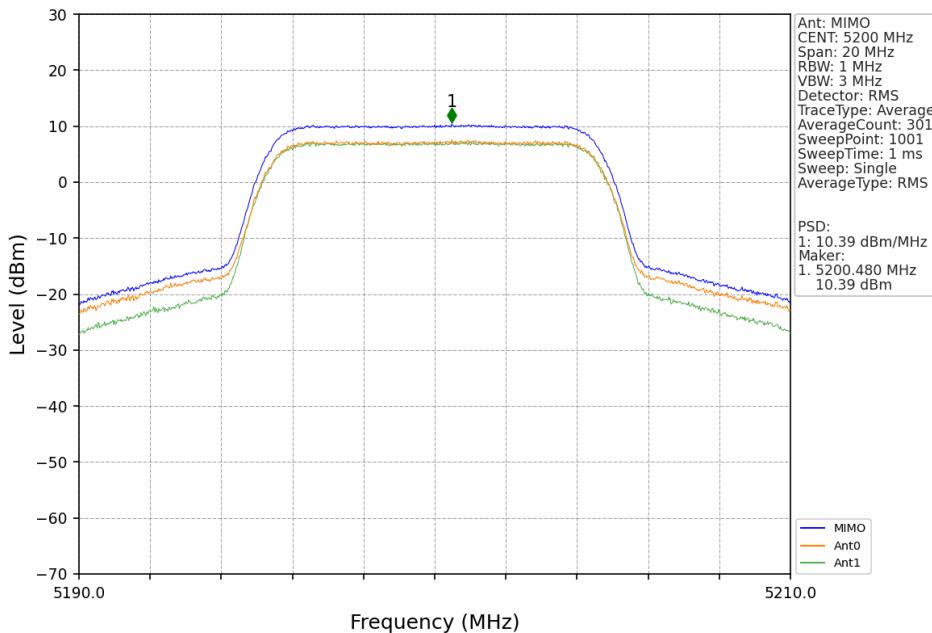
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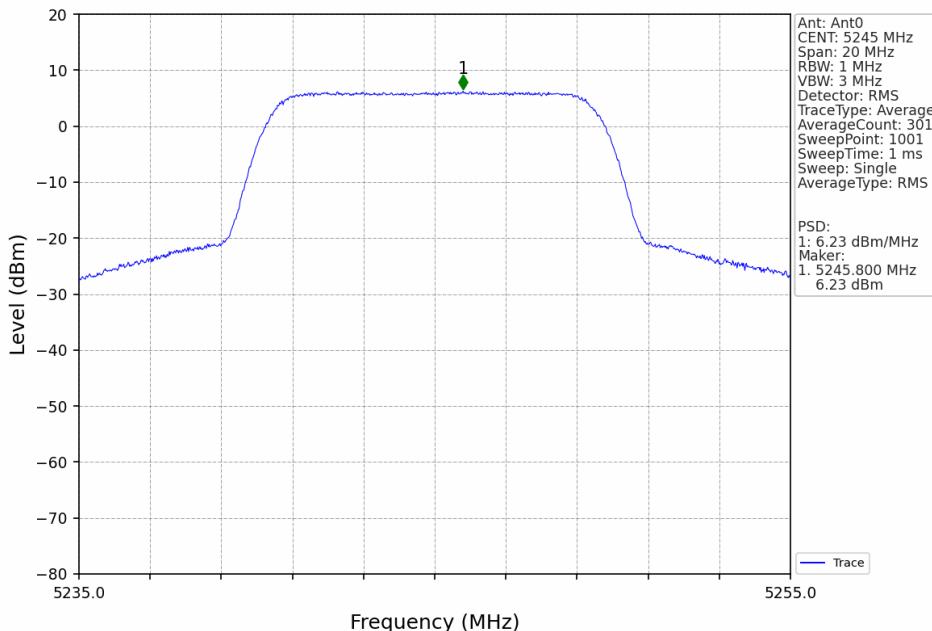
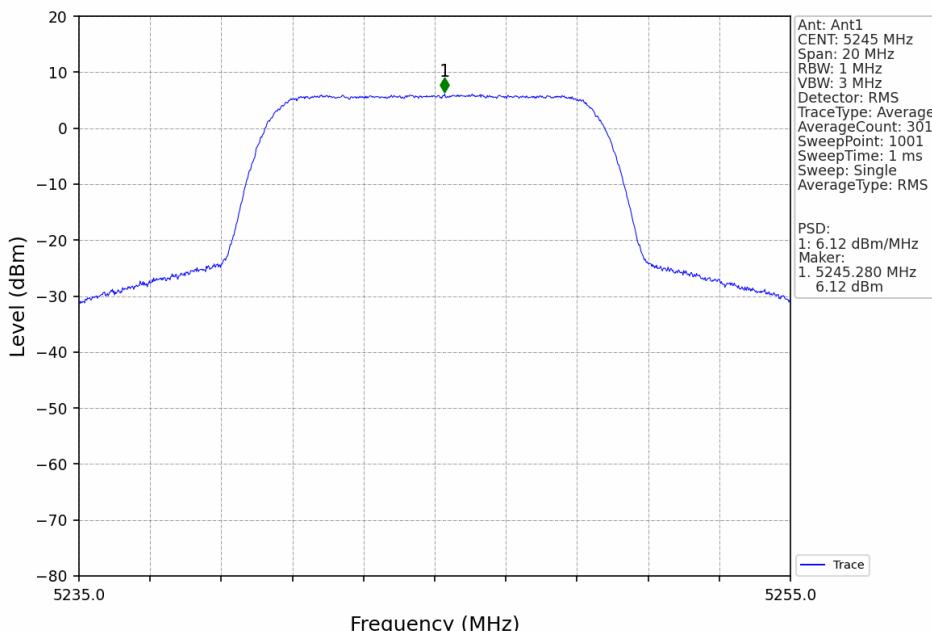
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10M_MCH_5200MHz_Ant1_NTNV**10M_MCH_5200MHz_MIMO_NTNV**

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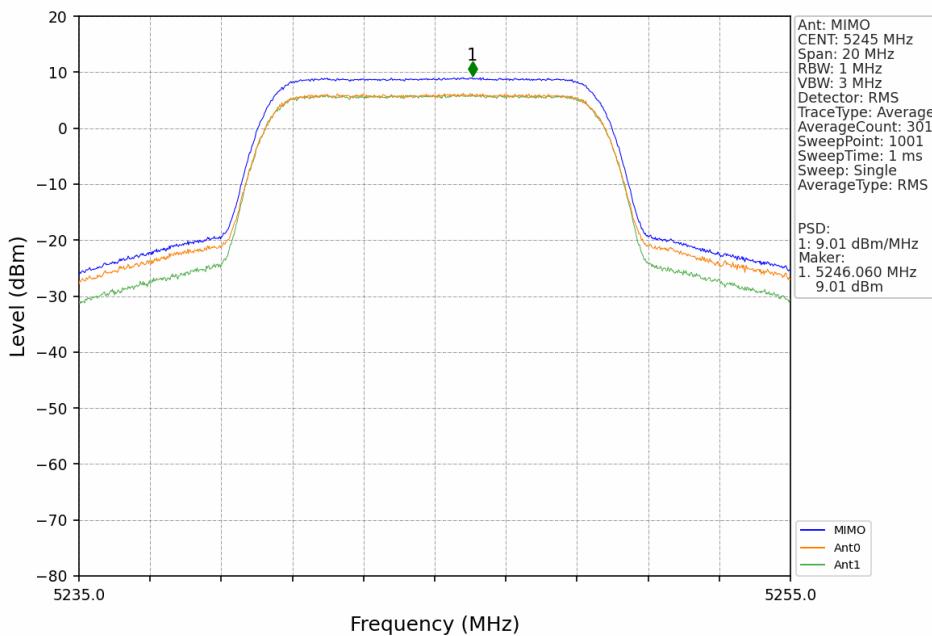
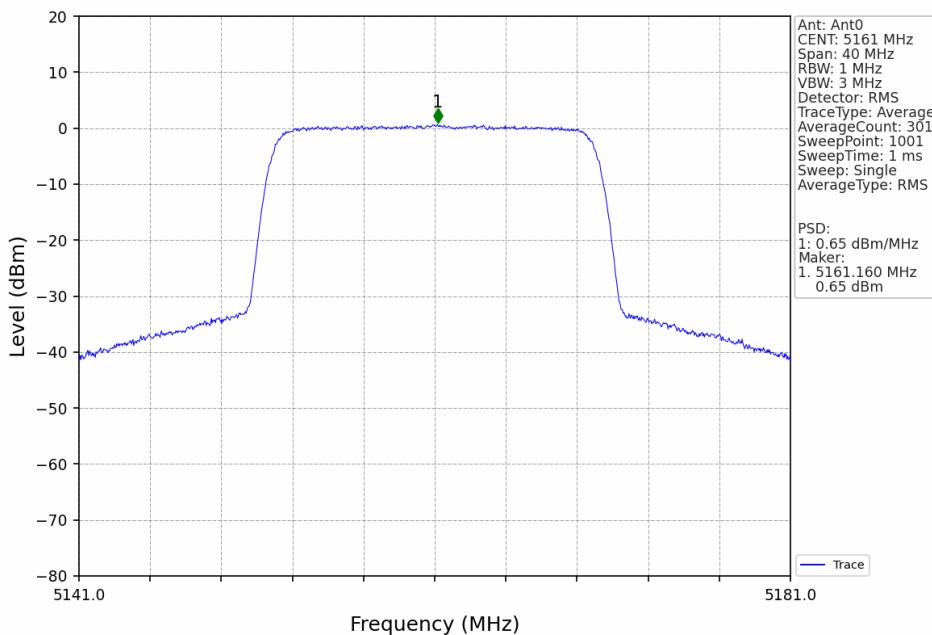
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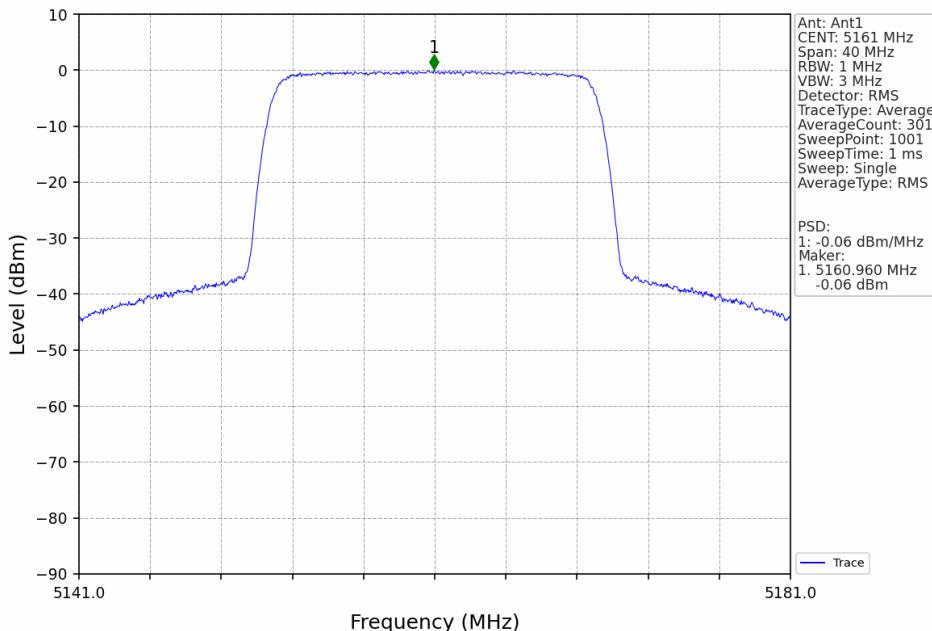
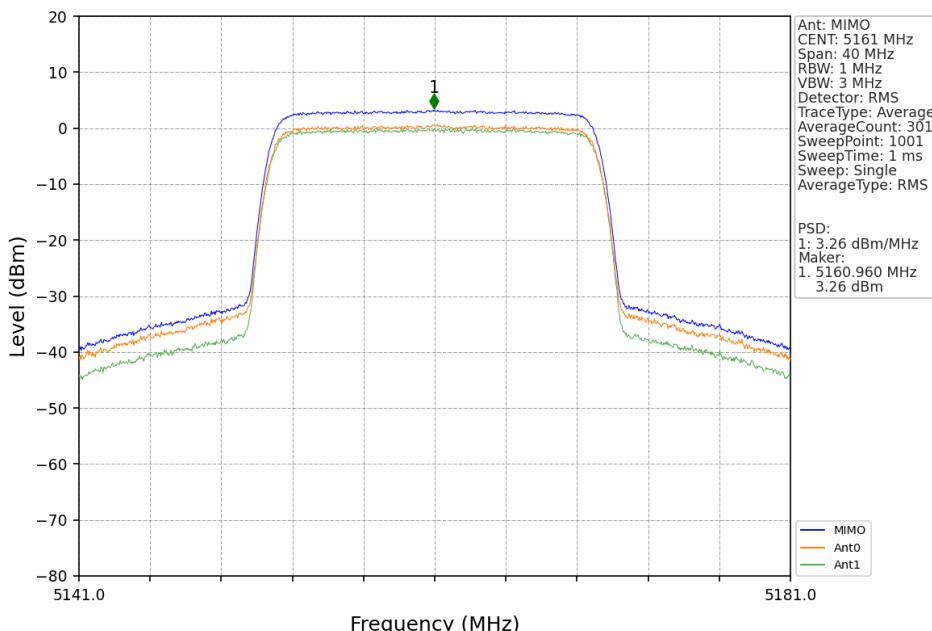
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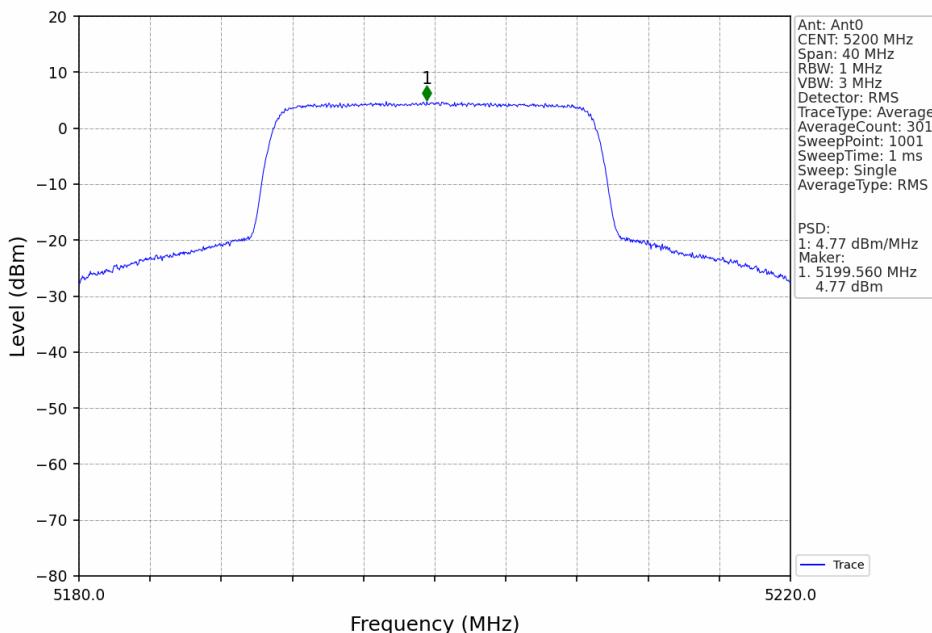
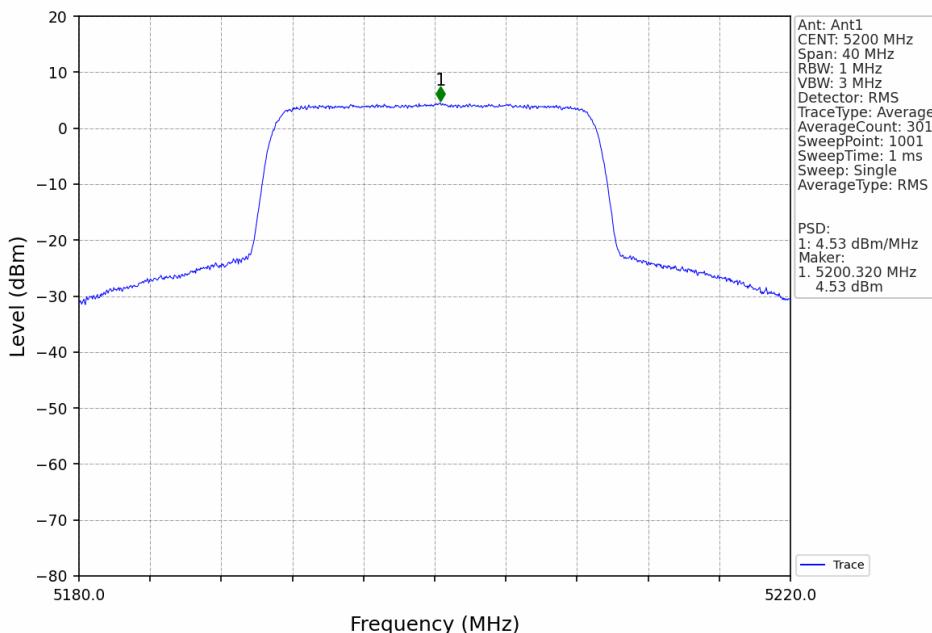
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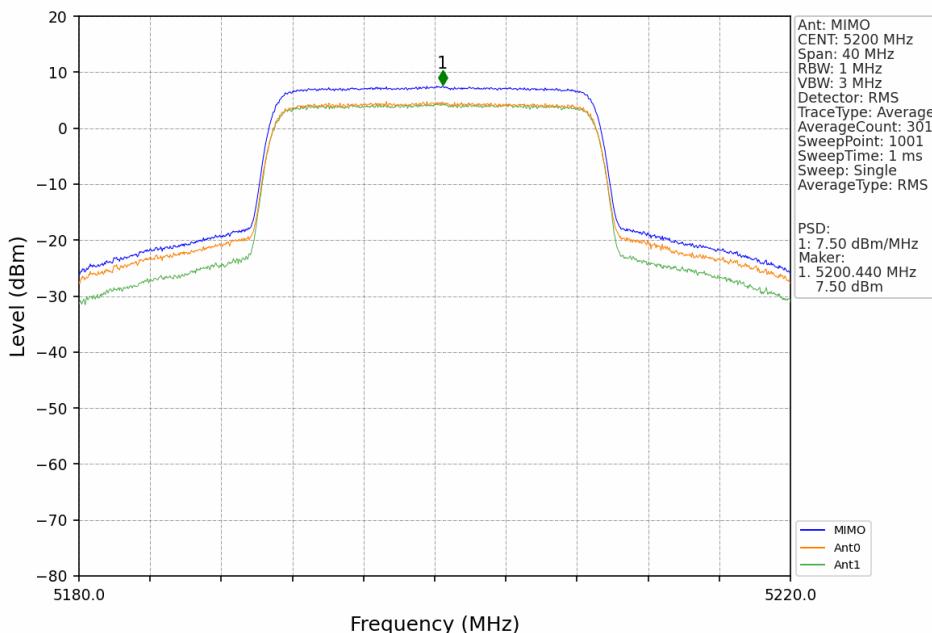
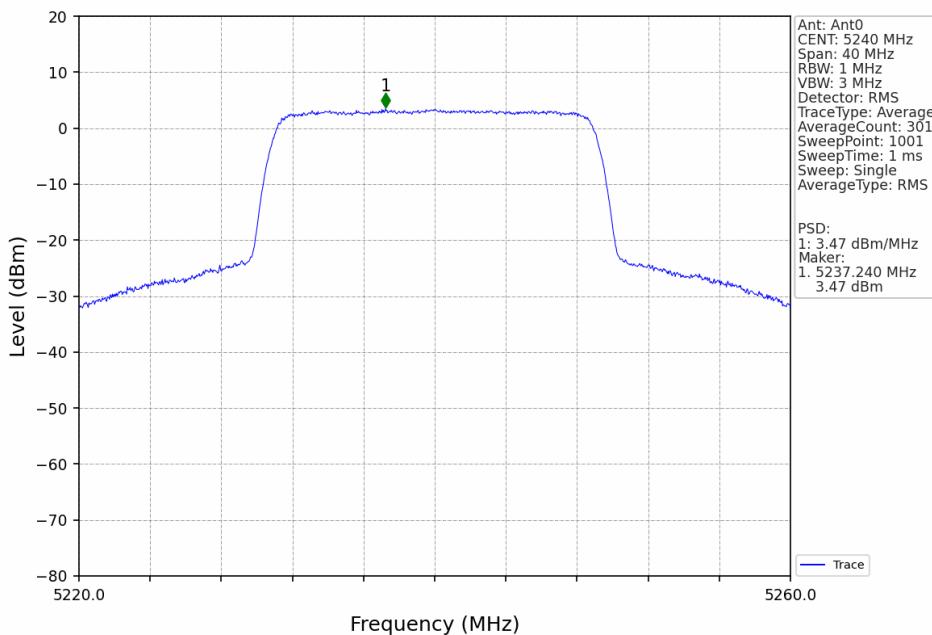
10M_HCH_5245MHz_MIMO_NTNV**20M_LCH_5161MHz_Ant0_NTNV**

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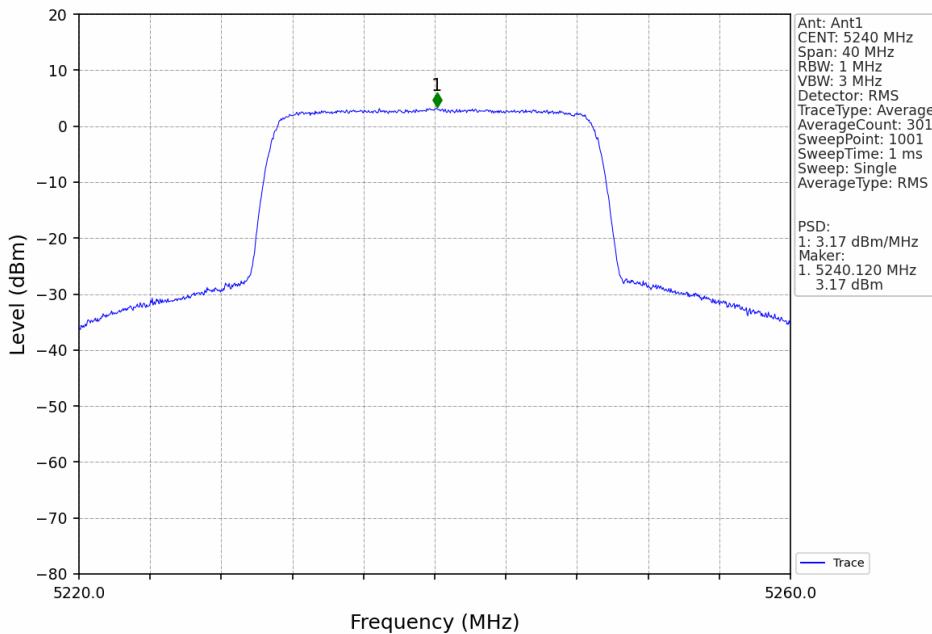
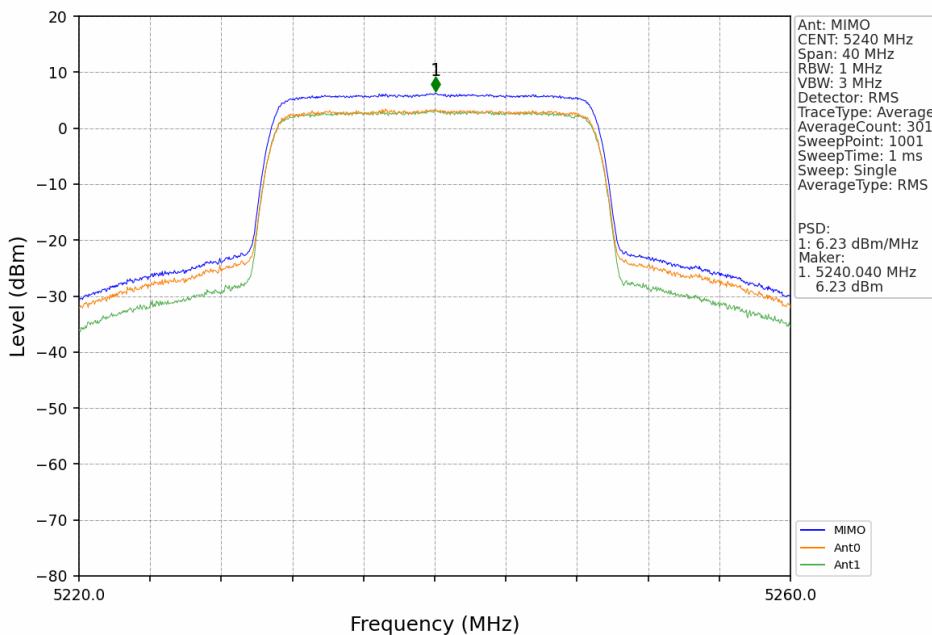
20M_LCH_5161MHz_Ant1_NTNV**20M_LCH_5161MHz_MIMO_NTNV**

20M_MCH_5200MHz_Ant0_NTNV**20M_MCH_5200MHz_Ant1_NTNV**

20M_MCH_5200MHz_MIMO_NTNV**20M_HCH_5240MHz_Ant0_NTNV**

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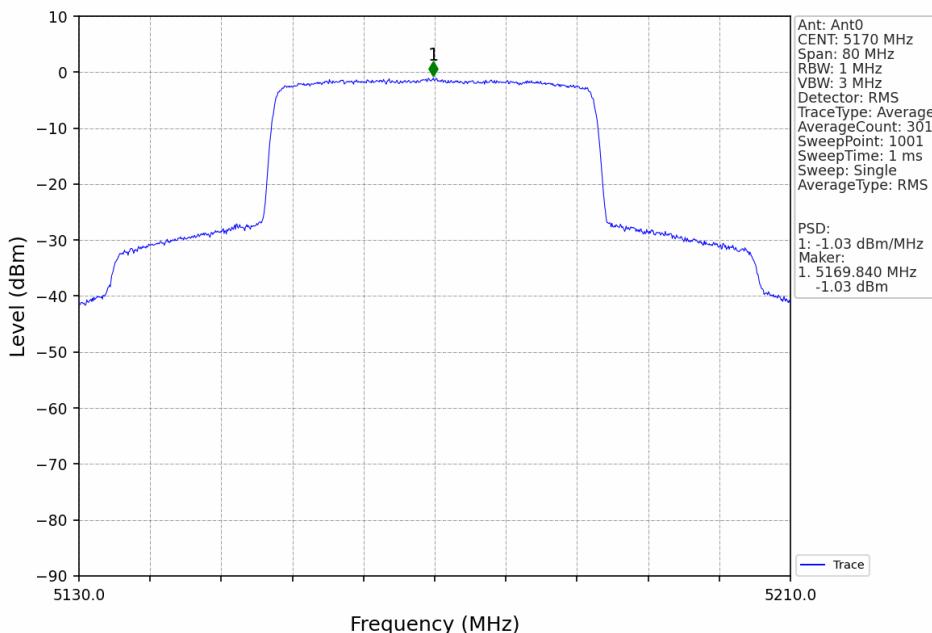
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20M_HCH_5240MHz_Ant1_NTNV**20M_HCH_5240MHz_MIMO_NTNV**

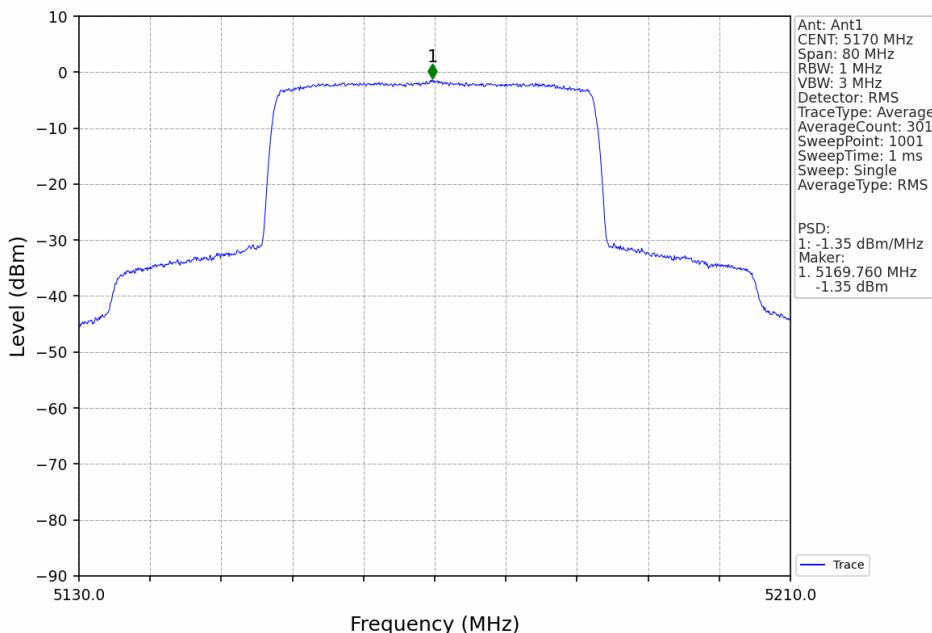
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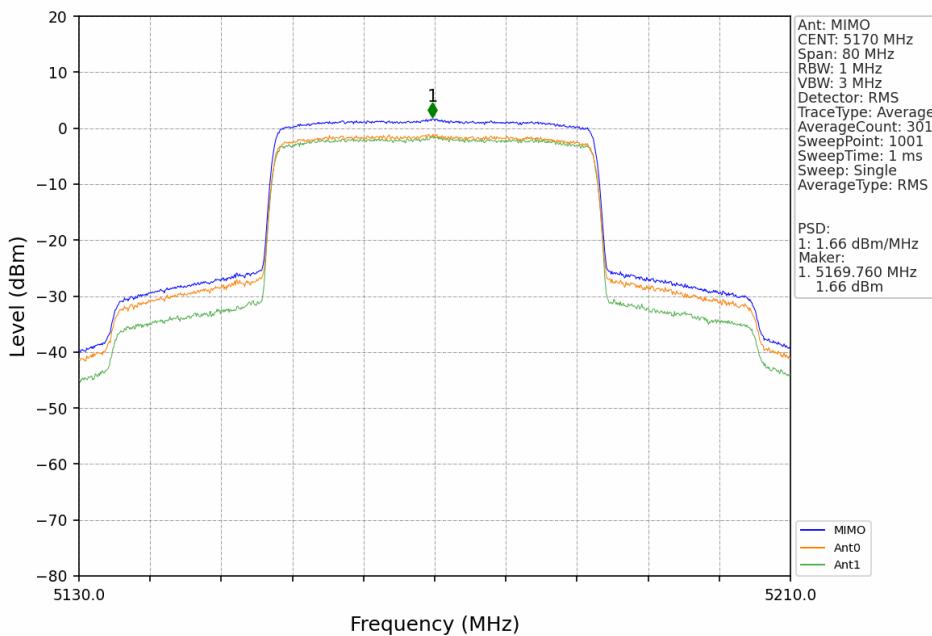
40M_LCH_5170MHz_Ant0_NTNV



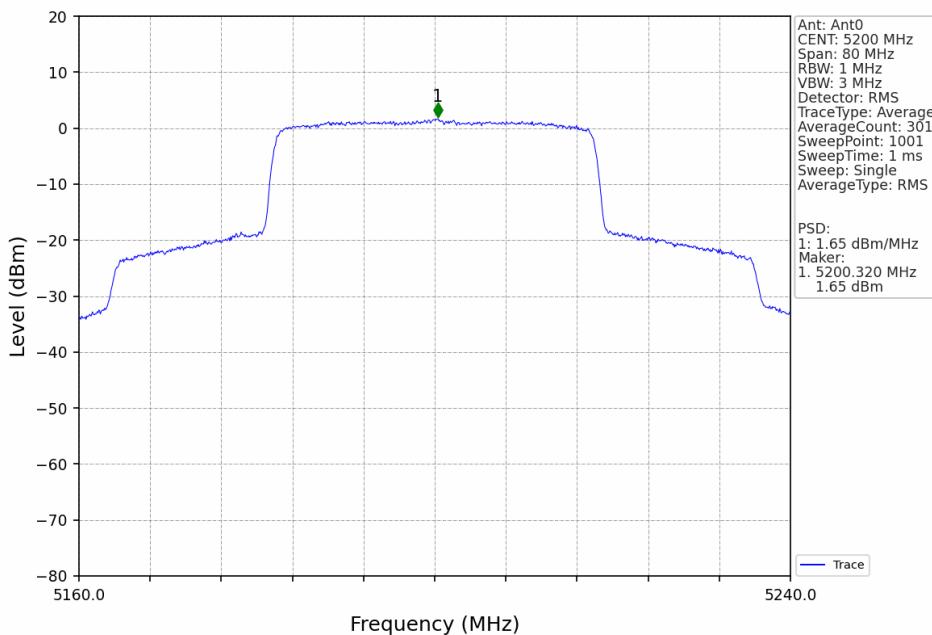
40M_LCH_5170MHz_Ant1_NTNV



40M_LCH_5170MHz_MIMO_NTNV



40M_MCH_5200MHz_Ant0_NTNV



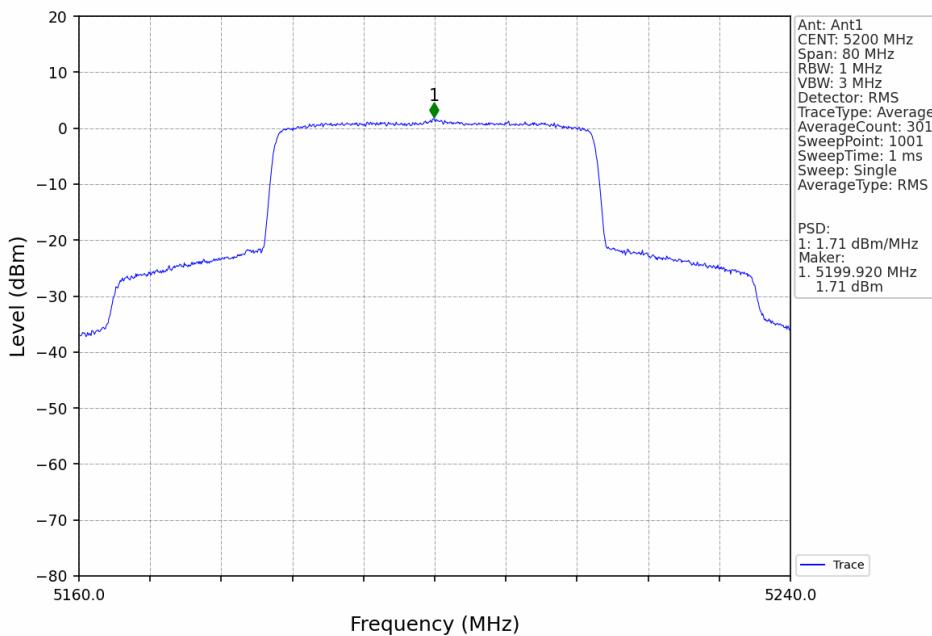
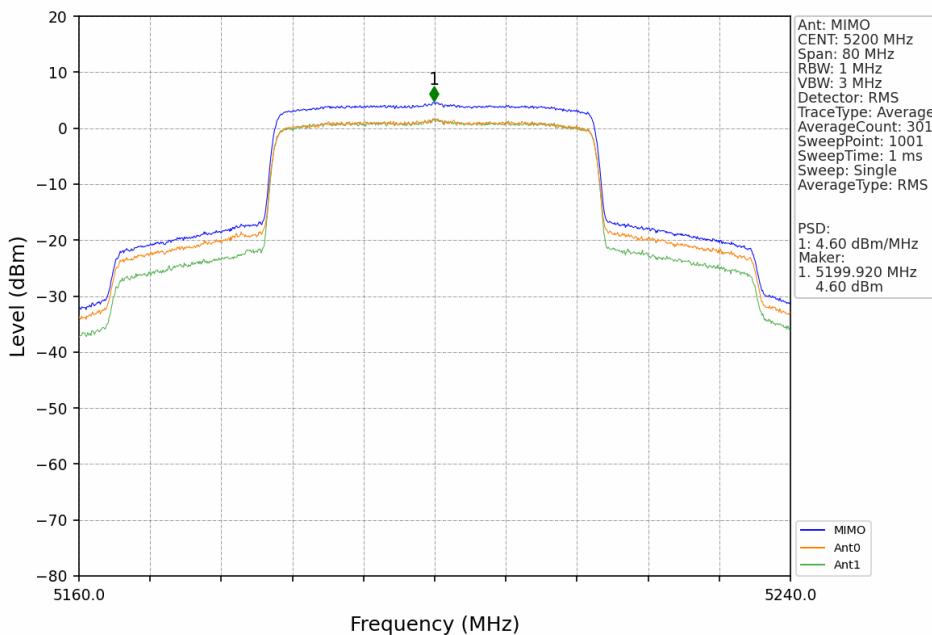
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40M_MCH_5200MHz_Ant1_NTNV**40M_MCH_5200MHz_MIMO_NTNV**

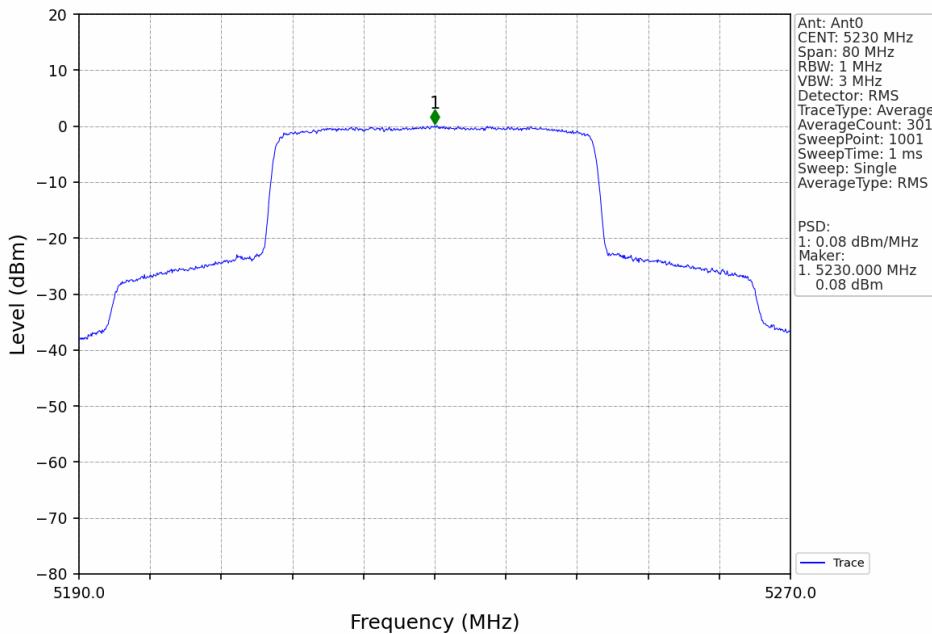
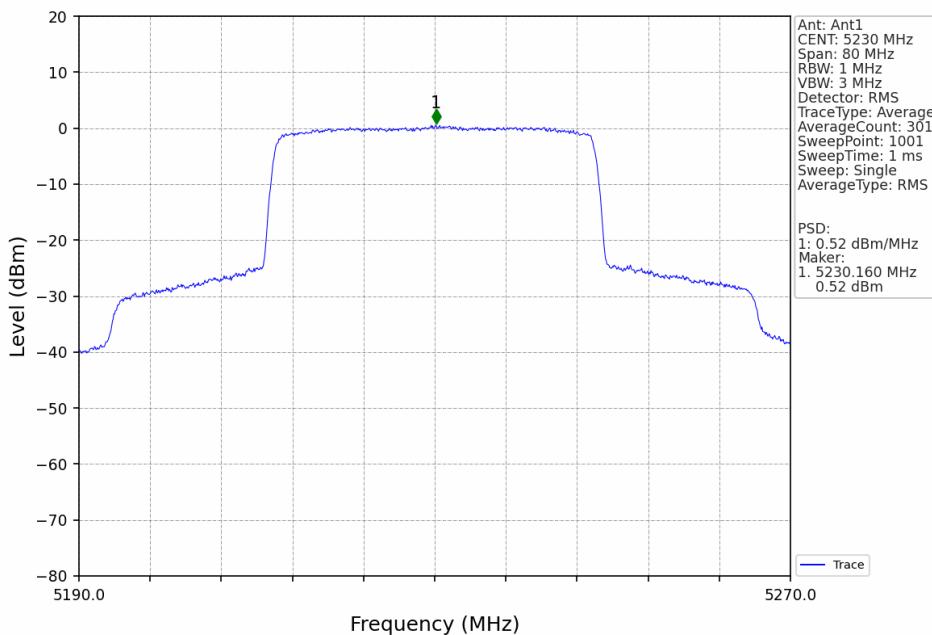
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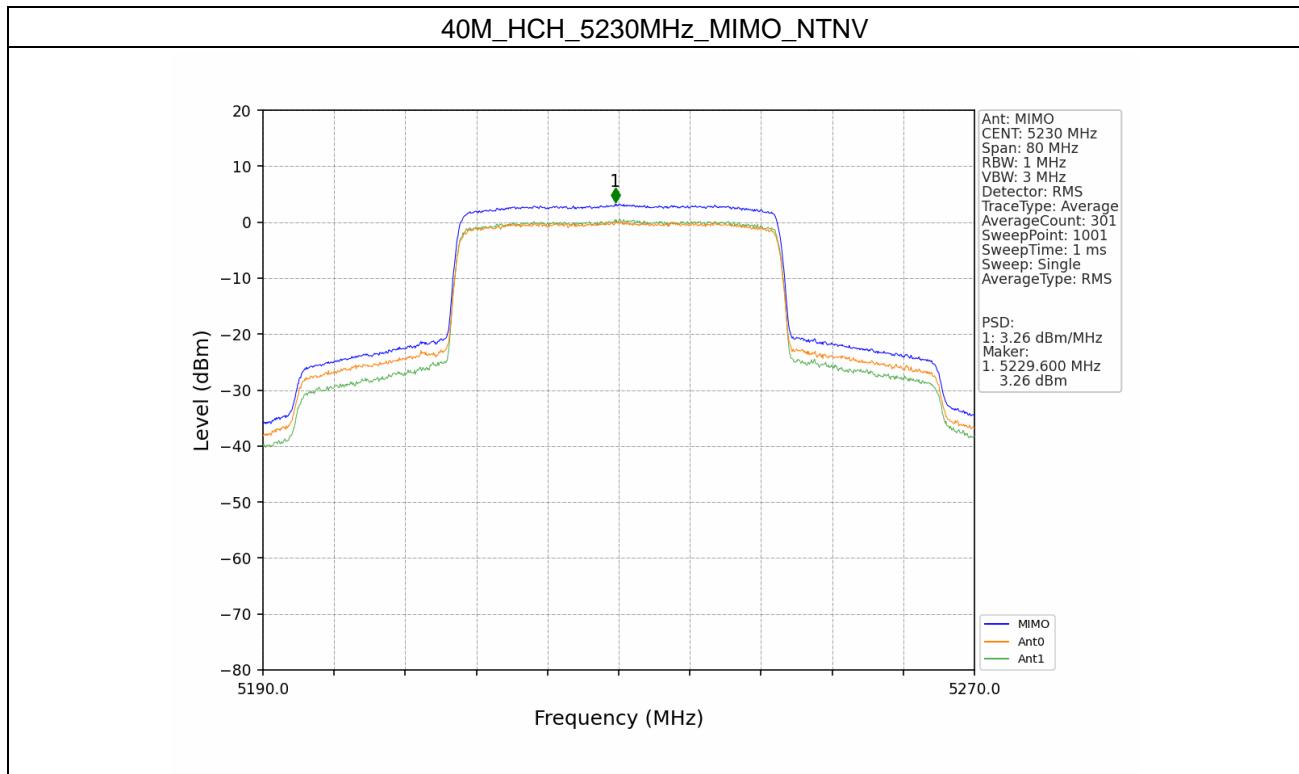
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40M_HCH_5230MHz_Ant0_NTNV**40M_HCH_5230MHz_Ant1_NTNV**



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5. Frequency Stability

5.1 Test Result

5.1.1 Ant0

Ant0							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10M	MIMO	5157	20	4.25	5156.980	5150 to 5250	Pass
				5	5156.990	5150 to 5250	Pass
				5.75	5157.010	5150 to 5250	Pass
			-30	5	5156.990	5150 to 5250	Pass
			-20	5	5156.980	5150 to 5250	Pass
			-10	5	5156.970	5150 to 5250	Pass
			0	5	5156.970	5150 to 5250	Pass
			10	5	5156.960	5150 to 5250	Pass
			30	5	5156.990	5150 to 5250	Pass
			40	5	5156.990	5150 to 5250	Pass
			50	5	5156.970	5150 to 5250	Pass
		5200	20	4.25	5200.040	5150 to 5250	Pass
				5	5200.000	5150 to 5250	Pass
				5.75	5199.990	5150 to 5250	Pass
			-30	5	5200.010	5150 to 5250	Pass
			-20	5	5199.990	5150 to 5250	Pass
			-10	5	5199.980	5150 to 5250	Pass
			0	5	5200.020	5150 to 5250	Pass
			10	5	5200.020	5150 to 5250	Pass
			30	5	5200.030	5150 to 5250	Pass
			40	5	5200.010	5150 to 5250	Pass
			50	5	5199.990	5150 to 5250	Pass
		5245	20	4.25	5244.980	5150 to 5250	Pass
				5	5245.000	5150 to 5250	Pass
				5.75	5244.960	5150 to 5250	Pass
			-30	5	5245.000	5150 to 5250	Pass
			-20	5	5245.010	5150 to 5250	Pass
			-10	5	5244.970	5150 to 5250	Pass
			0	5	5245.000	5150 to 5250	Pass
			10	5	5244.990	5150 to 5250	Pass
			30	5	5245.010	5150 to 5250	Pass

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			40	5	5244.980	5150 to 5250	Pass		
			50	5	5244.980	5150 to 5250	Pass		
20M	MIMO	5161	20	4.25	5160.980	5150 to 5250	Pass		
				5	5160.980	5150 to 5250	Pass		
				5.75	5161.000	5150 to 5250	Pass		
				-30	5	5160.980	5150 to 5250	Pass	
				-20	5	5160.980	5150 to 5250	Pass	
				-10	5	5160.960	5150 to 5250	Pass	
				0	5	5160.980	5150 to 5250	Pass	
				10	5	5161.000	5150 to 5250	Pass	
				30	5	5160.980	5150 to 5250	Pass	
				40	5	5160.980	5150 to 5250	Pass	
				50	5	5160.980	5150 to 5250	Pass	
			5200	20	4.25	5199.980	5150 to 5250	Pass	
					5	5200.000	5150 to 5250	Pass	
					5.75	5199.980	5150 to 5250	Pass	
				-30	5	5199.960	5150 to 5250	Pass	
				-20	5	5199.980	5150 to 5250	Pass	
				-10	5	5199.980	5150 to 5250	Pass	
				0	5	5199.980	5150 to 5250	Pass	
				10	5	5199.960	5150 to 5250	Pass	
				30	5	5199.980	5150 to 5250	Pass	
				40	5	5199.980	5150 to 5250	Pass	
				50	5	5200.000	5150 to 5250	Pass	
			5240	20	4.25	5239.980	5150 to 5250	Pass	
					5	5239.980	5150 to 5250	Pass	
					5.75	5239.960	5150 to 5250	Pass	
				-30	5	5239.980	5150 to 5250	Pass	
				-20	5	5239.980	5150 to 5250	Pass	
				-10	5	5240.000	5150 to 5250	Pass	
				0	5	5239.960	5150 to 5250	Pass	
				10	5	5239.960	5150 to 5250	Pass	
				30	5	5240.000	5150 to 5250	Pass	
				40	5	5239.980	5150 to 5250	Pass	
				50	5	5239.980	5150 to 5250	Pass	
				20	4.25	5170.000	5150 to 5250	Pass	
					5	5169.960	5150 to 5250	Pass	
					5.75	5169.960	5150 to 5250	Pass	
					-30	5	5170.000	5150 to 5250	Pass
					-20	5	5169.960	5150 to 5250	Pass
40M	MIMO	5170							

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			-10	5	5169.960	5150 to 5250	Pass
			0	5	5169.960	5150 to 5250	Pass
			10	5	5169.960	5150 to 5250	Pass
			30	5	5169.960	5150 to 5250	Pass
			40	5	5170.000	5150 to 5250	Pass
			50	5	5169.960	5150 to 5250	Pass
	5200	20		4.25	5200.000	5150 to 5250	Pass
				5	5199.960	5150 to 5250	Pass
				5.75	5200.000	5150 to 5250	Pass
		-30	5	5199.960	5150 to 5250	Pass	
		-20	5	5200.000	5150 to 5250	Pass	
		-10	5	5200.000	5150 to 5250	Pass	
		0	5	5199.960	5150 to 5250	Pass	
		10	5	5200.000	5150 to 5250	Pass	
		30	5	5200.000	5150 to 5250	Pass	
		40	5	5199.960	5150 to 5250	Pass	
		50	5	5200.000	5150 to 5250	Pass	
	5230	20		4.25	5229.960	5150 to 5250	Pass
				5	5229.960	5150 to 5250	Pass
				5.75	5229.960	5150 to 5250	Pass
		-30	5	5230.000	5150 to 5250	Pass	
		-20	5	5229.960	5150 to 5250	Pass	
		-10	5	5229.960	5150 to 5250	Pass	
		0	5	5229.960	5150 to 5250	Pass	
		10	5	5229.960	5150 to 5250	Pass	
		30	5	5230.000	5150 to 5250	Pass	
		40	5	5230.000	5150 to 5250	Pass	
		50	5	5230.000	5150 to 5250	Pass	

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