

5.1G SDR ANT21 test data

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
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

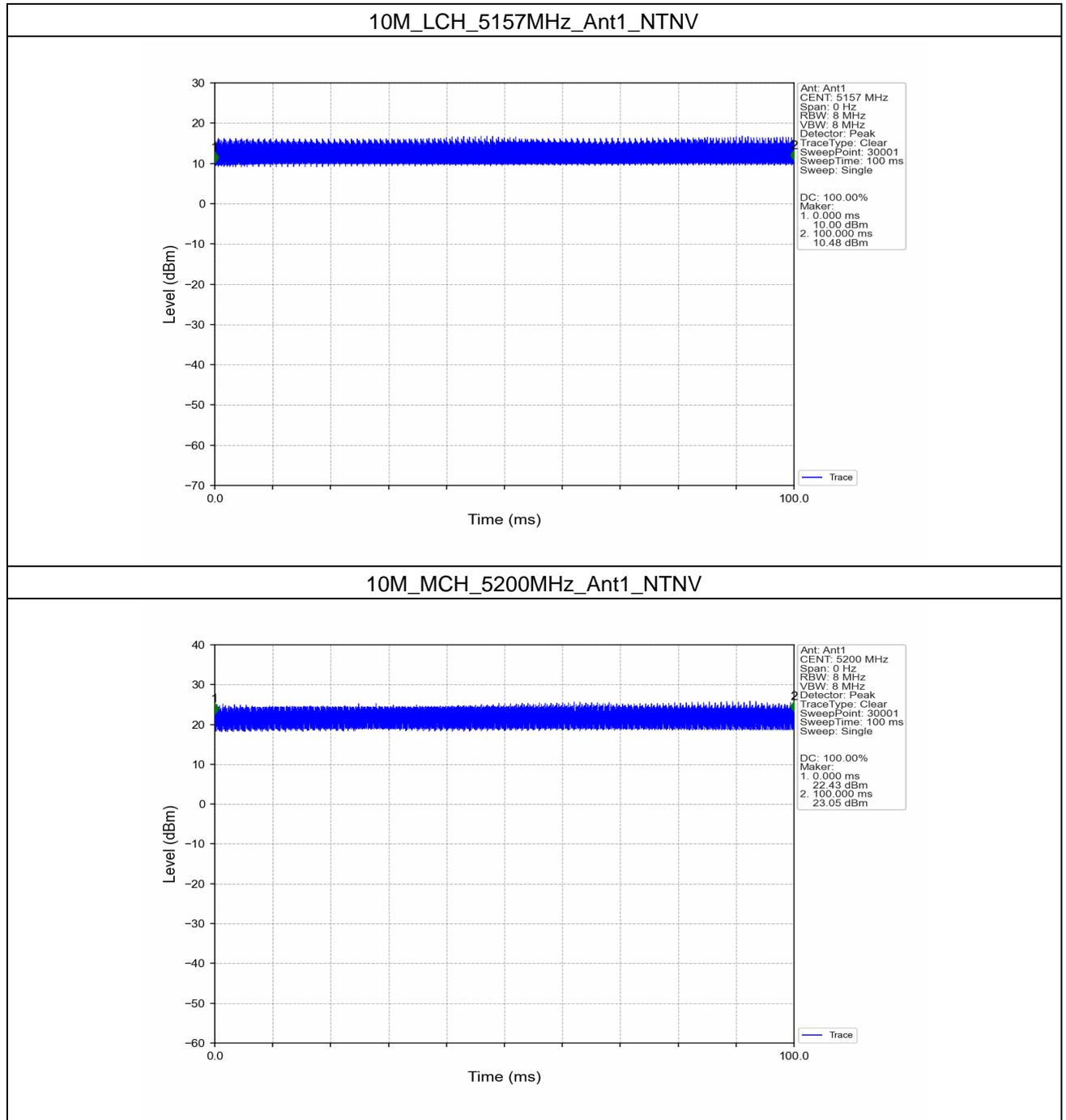


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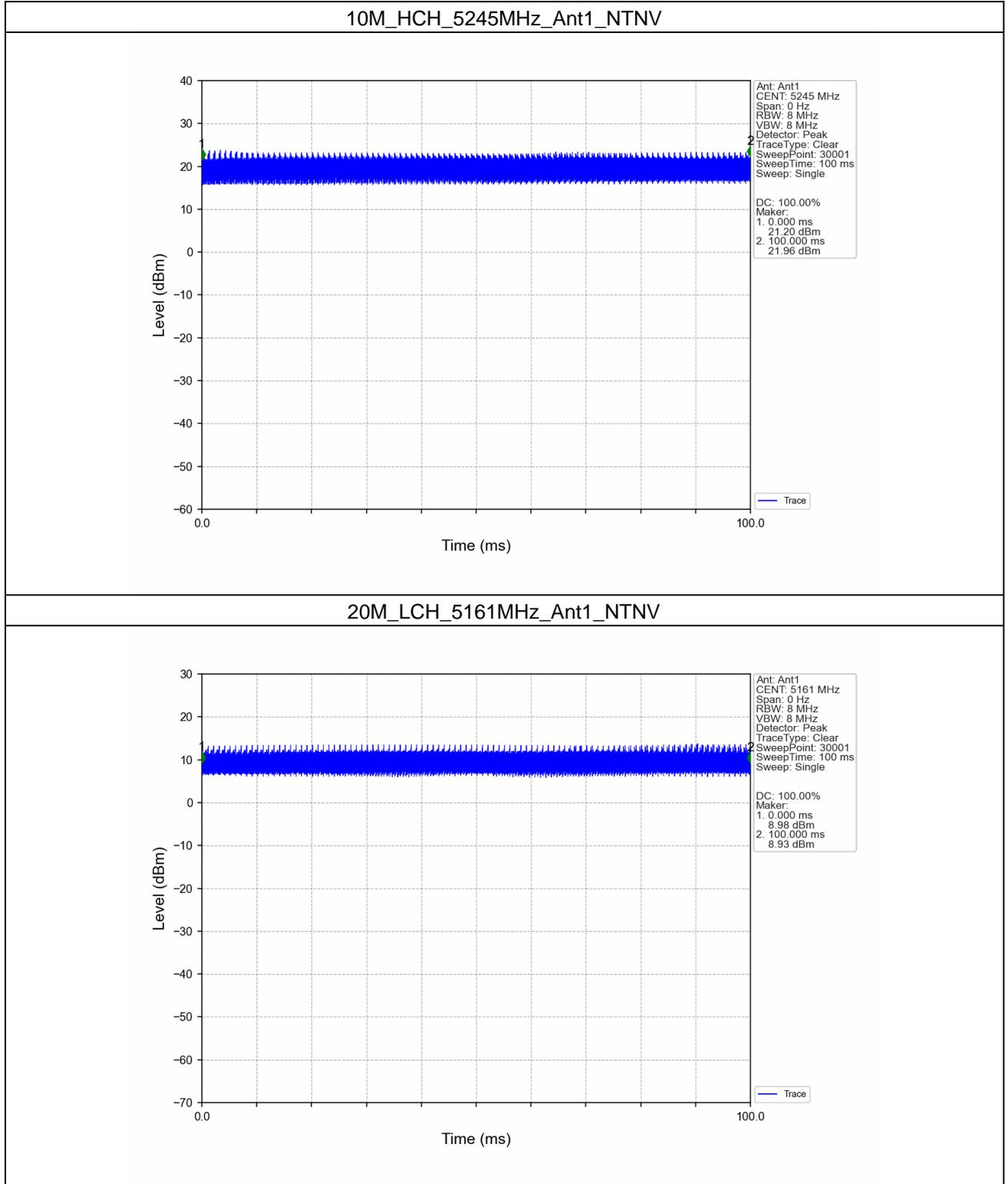
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1.2 Test Graph

1.2.1 Ant1

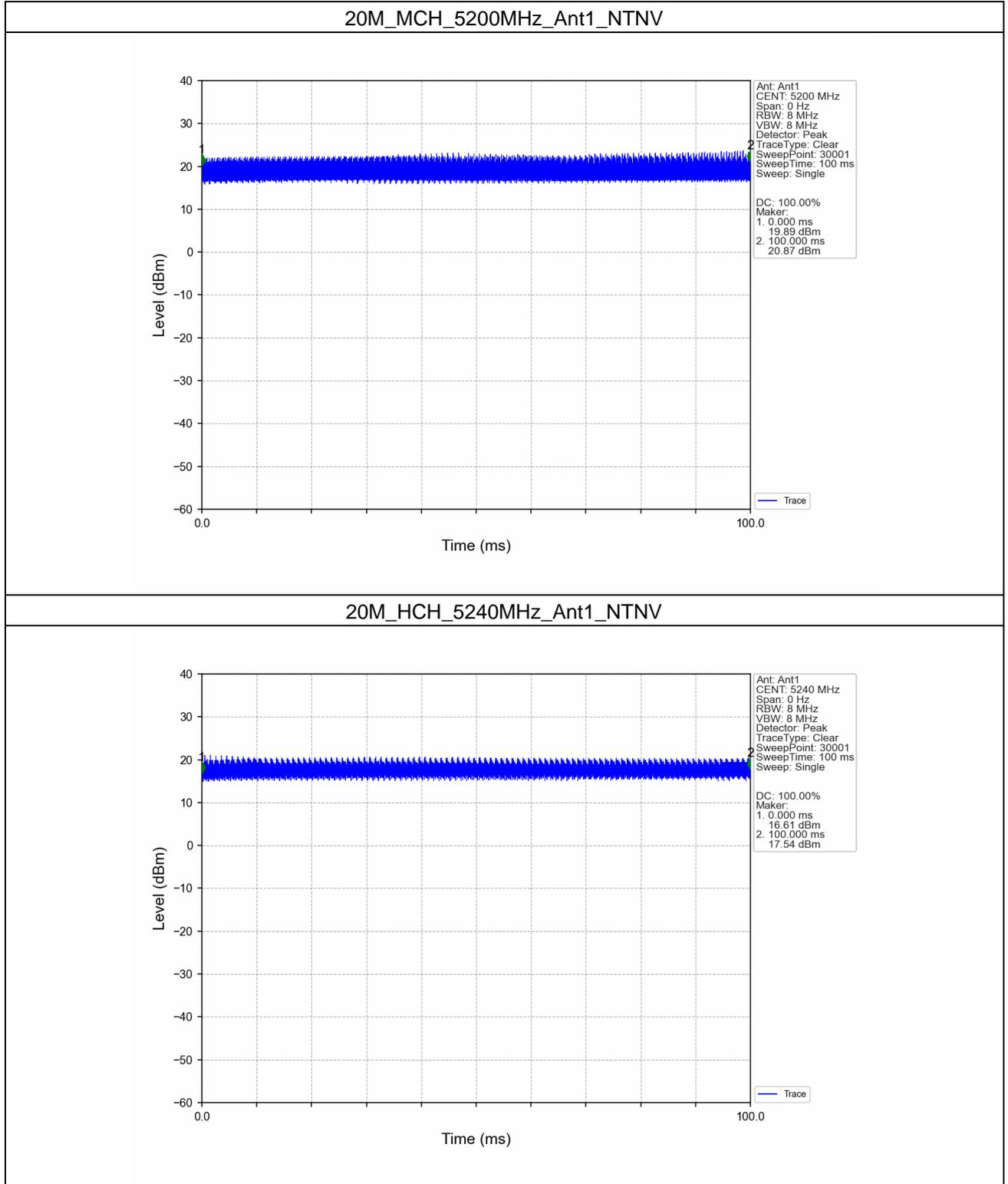


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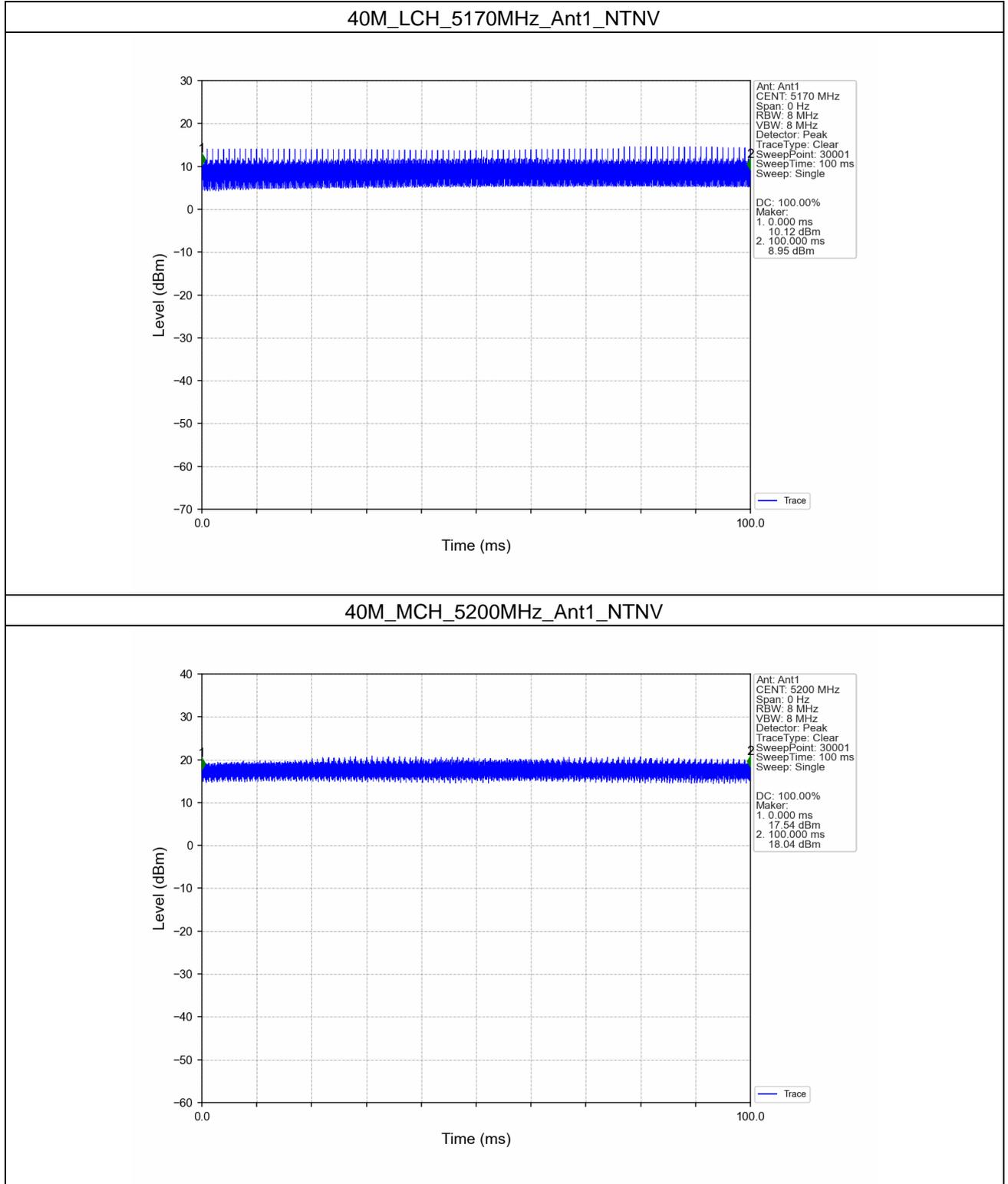


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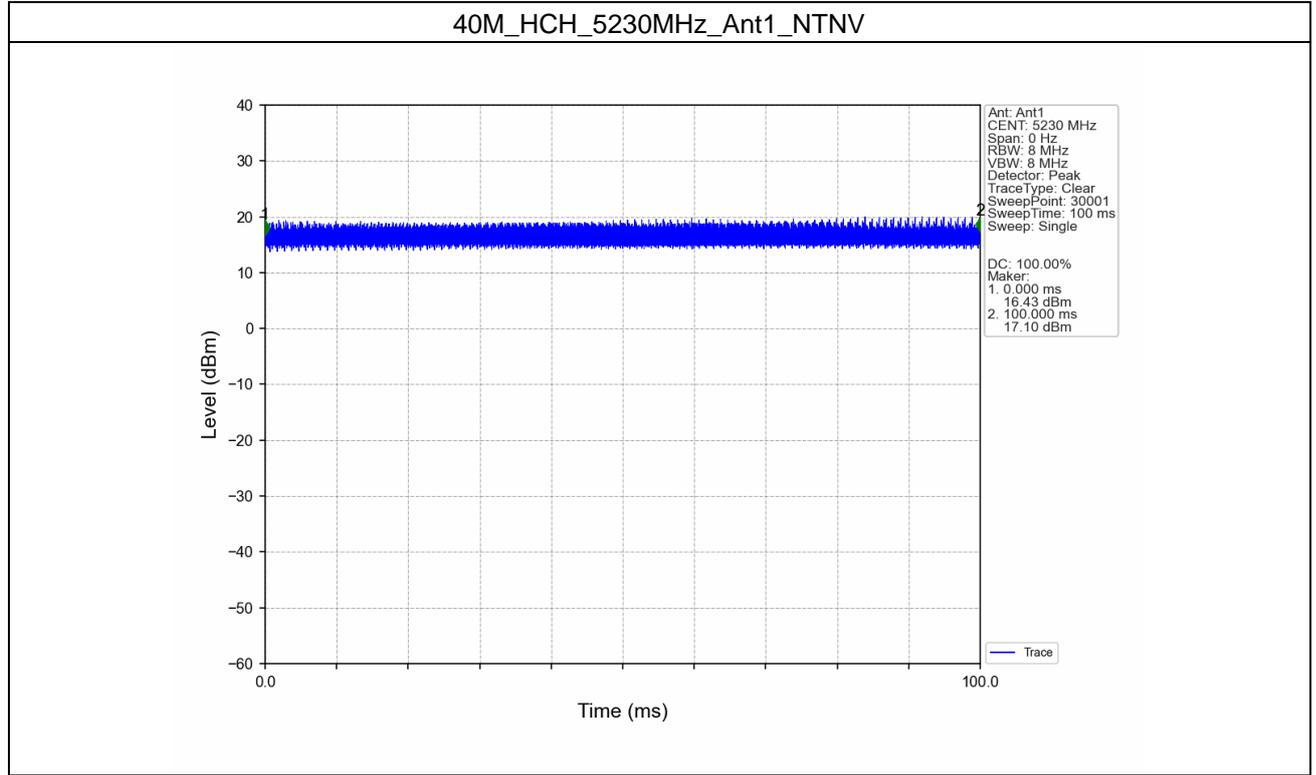
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5157	1	9.240	/	Pass
		5200	1	9.142	/	Pass
		5245	1	9.230	/	Pass
20M	MIMO	5161	1	18.063	/	Pass
		5200	1	18.080	/	Pass
		5240	1	17.879	/	Pass
40M	MIMO	5170	1	36.134	/	Pass
		5200	1	31.846	/	Pass
		5230	1	31.336	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5157	1	10.717	/	Pass
		5200	1	10.657	/	Pass
		5245	1	10.673	/	Pass
20M	MIMO	5161	1	19.433	/	Pass
		5200	1	19.378	/	Pass
		5240	1	18.928	/	Pass
40M	MIMO	5170	1	37.753	/	Pass
		5200	1	36.604	/	Pass
		5230	1	36.564	/	Pass

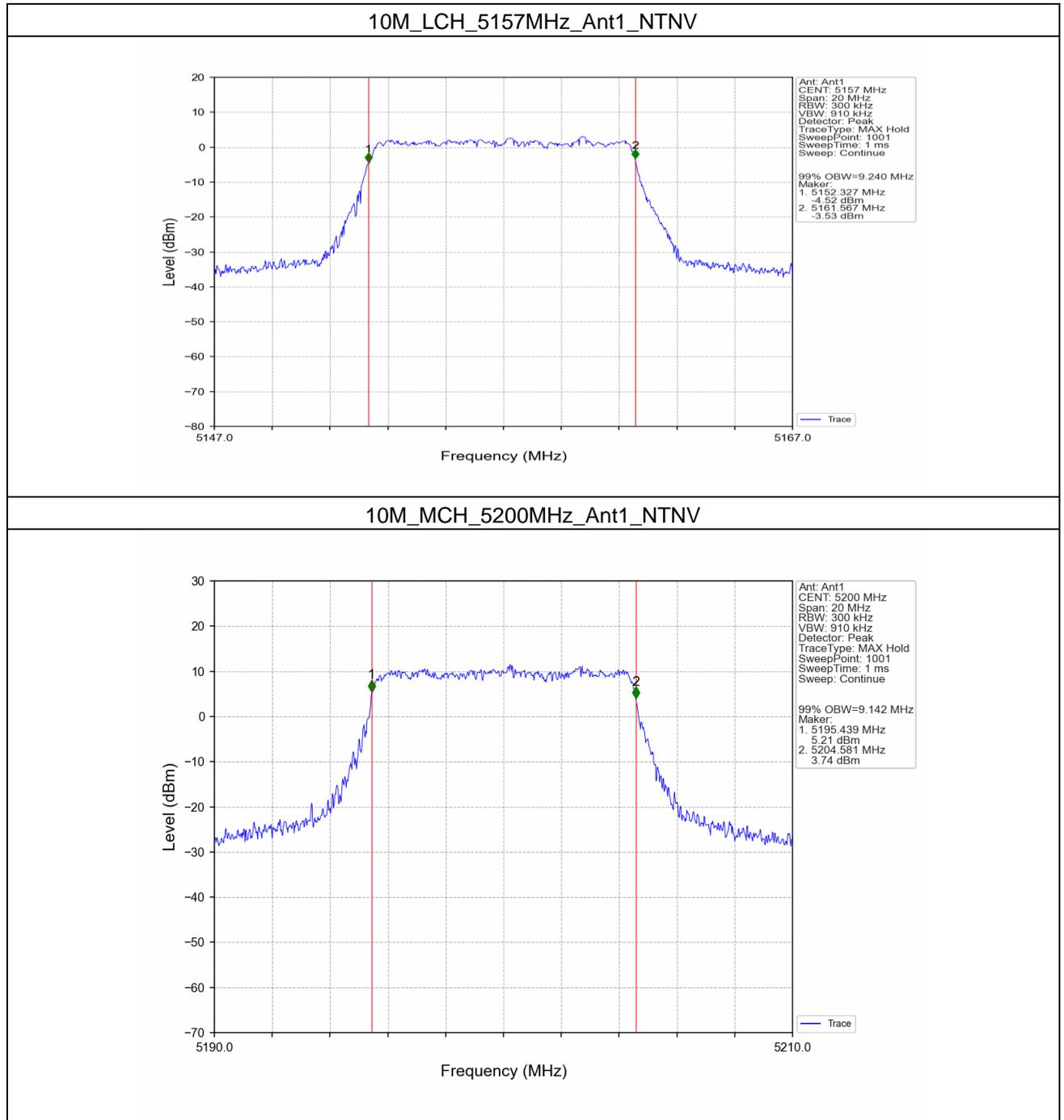


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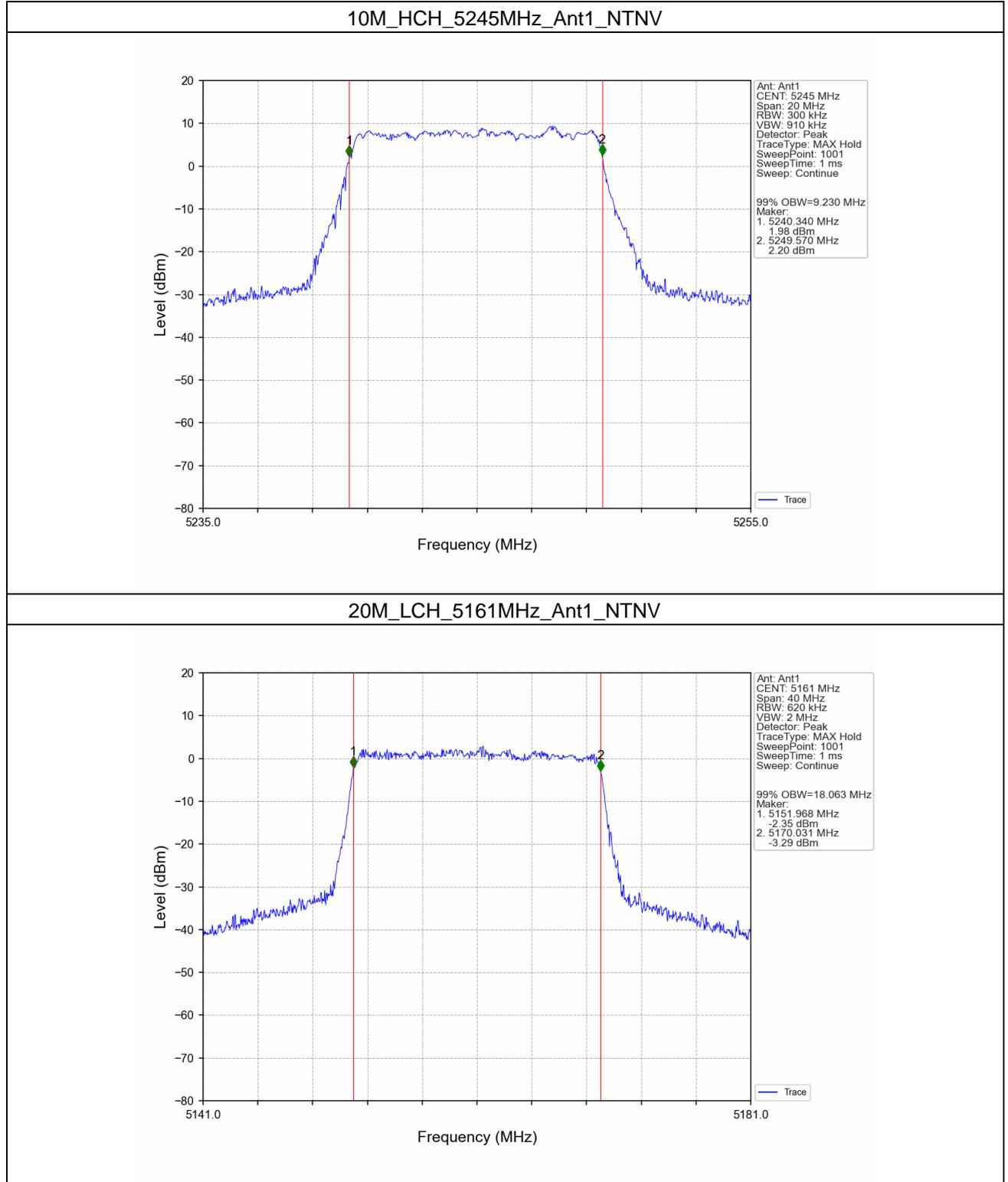
2.2 Test Graph

2.2.1 OBW

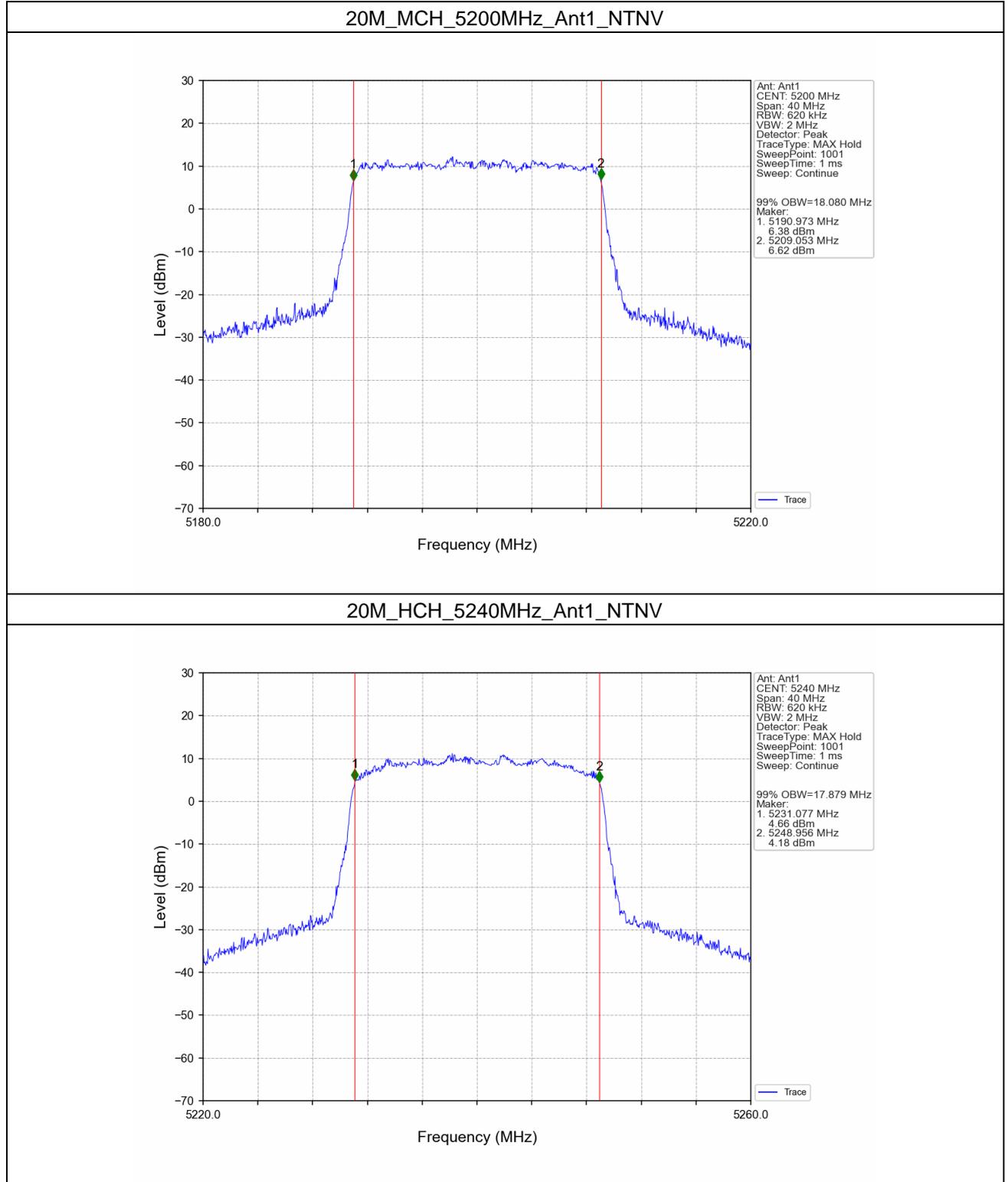


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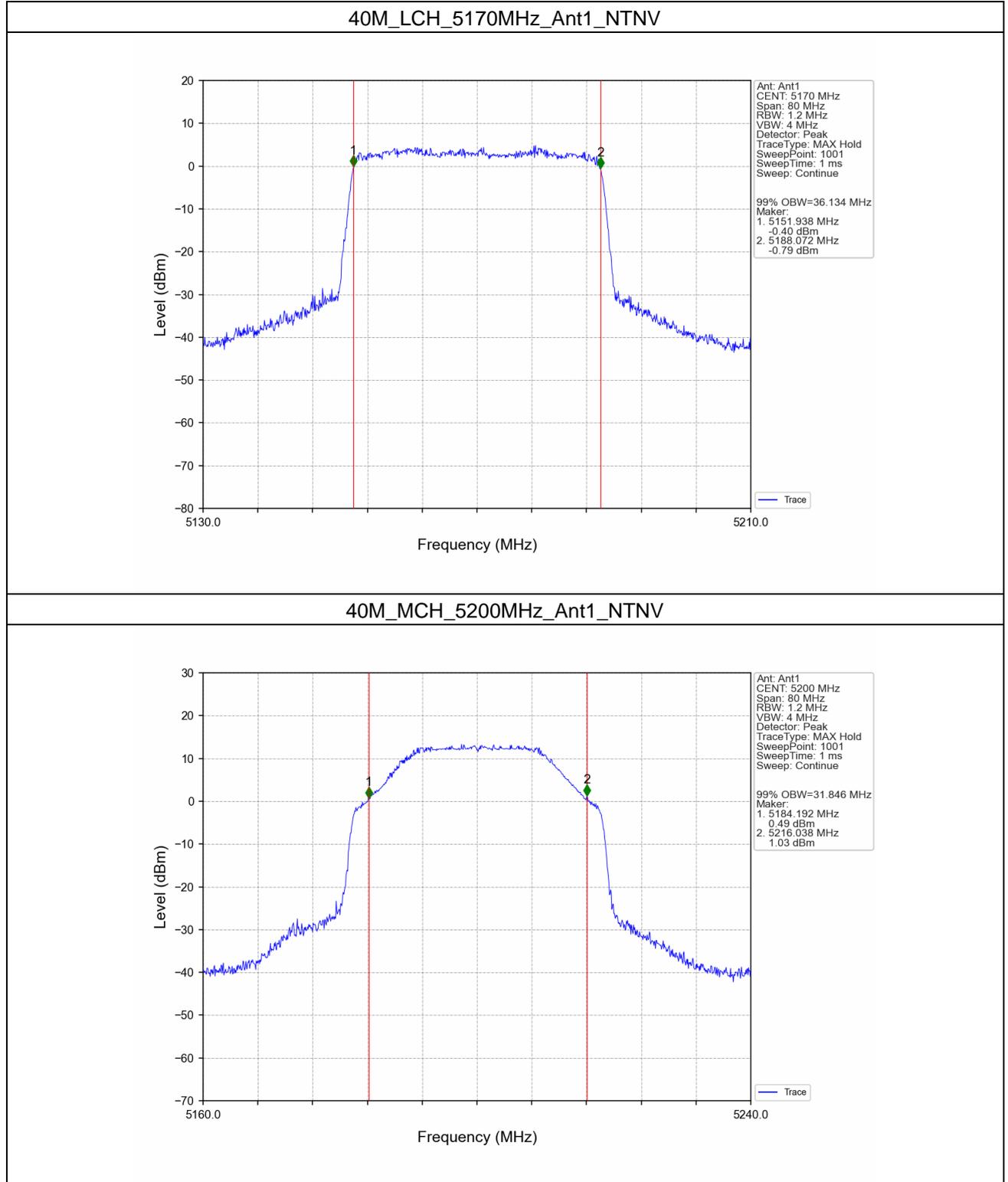
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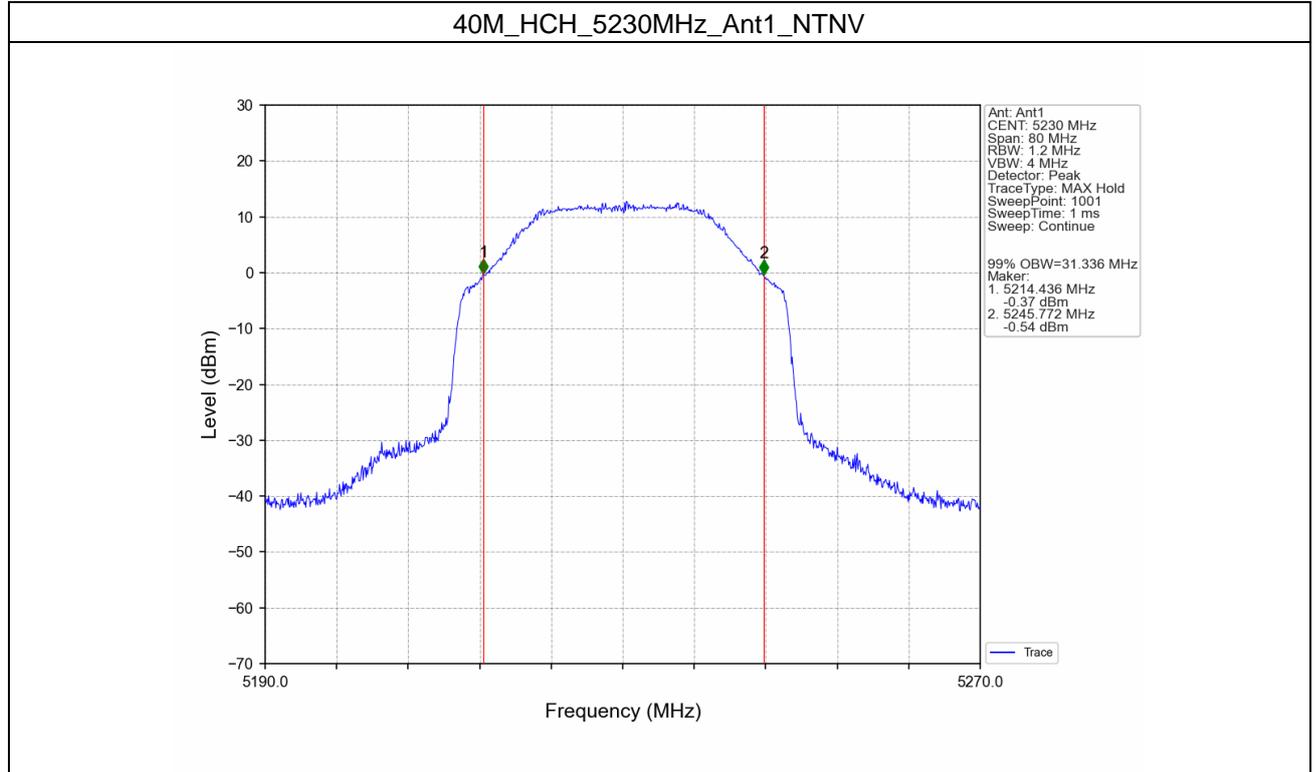
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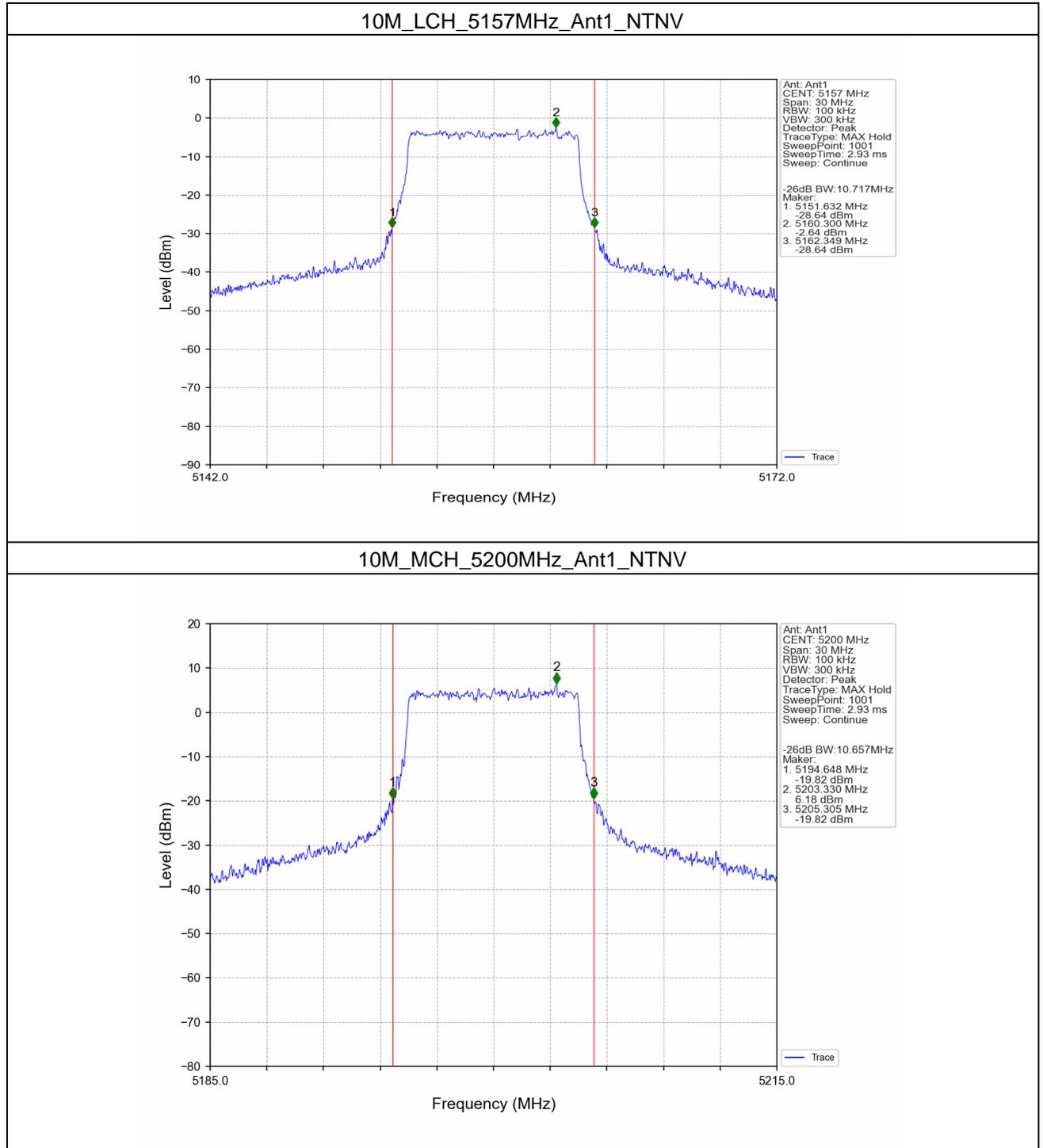
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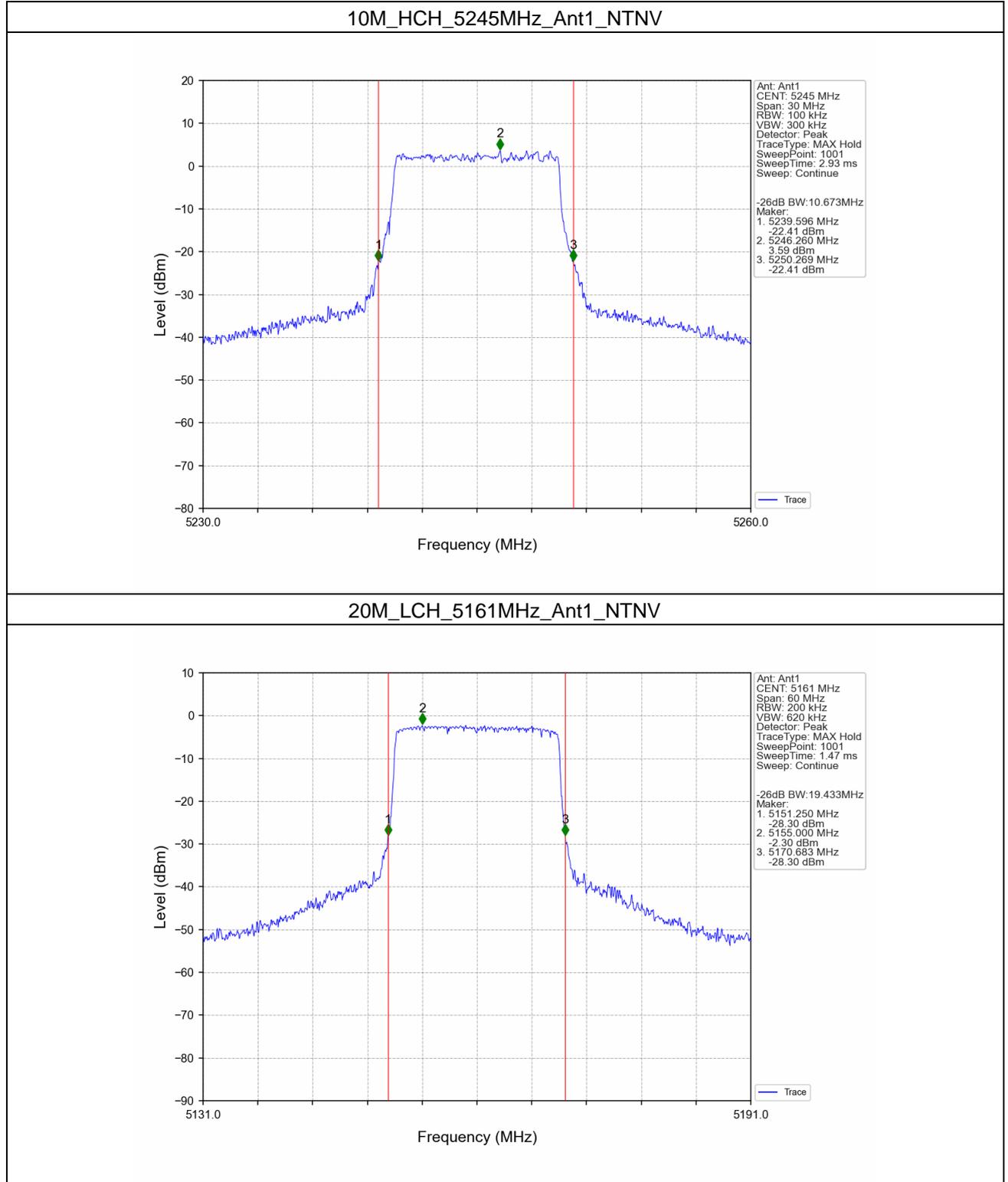
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2.2.2 26dB BW

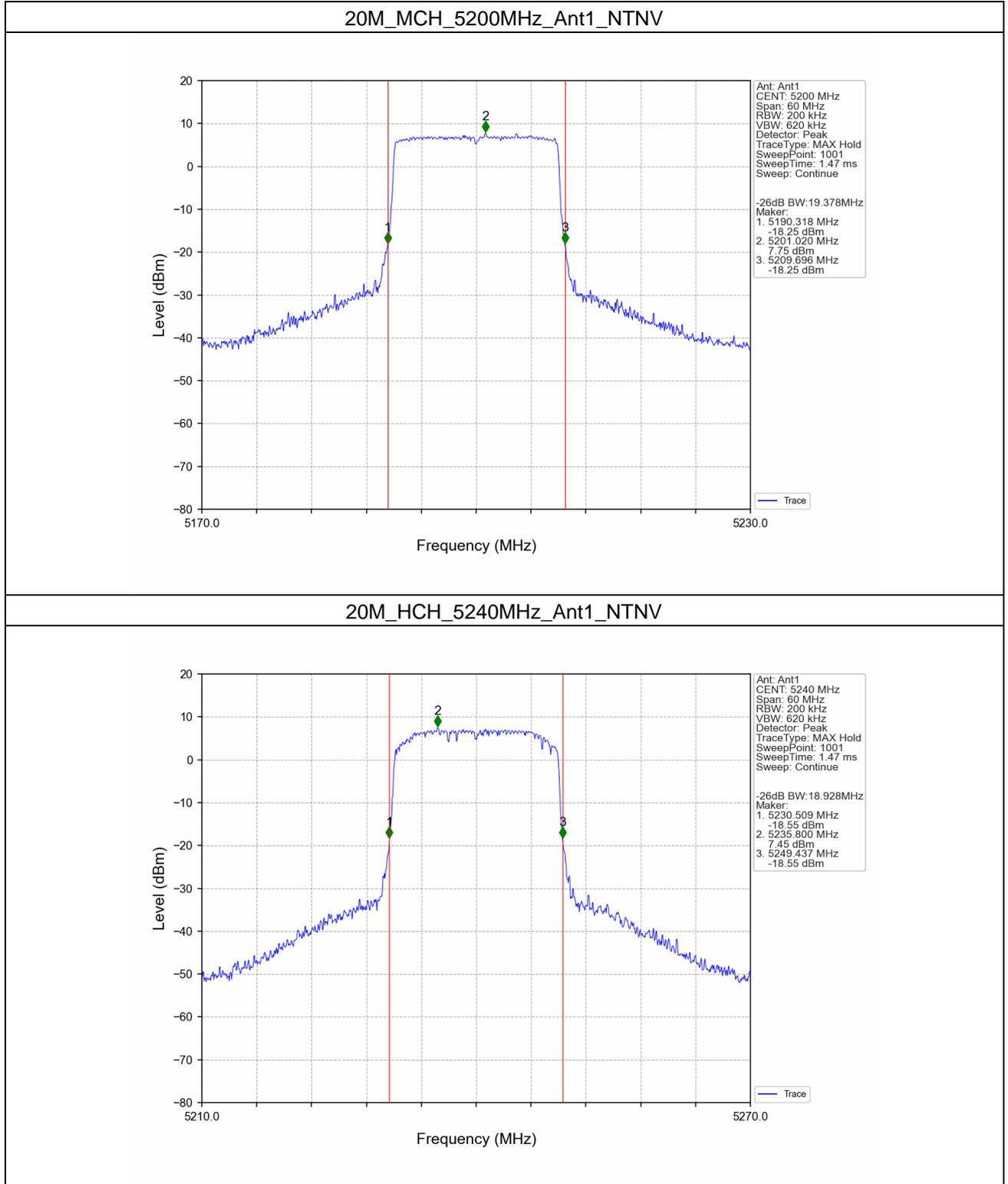


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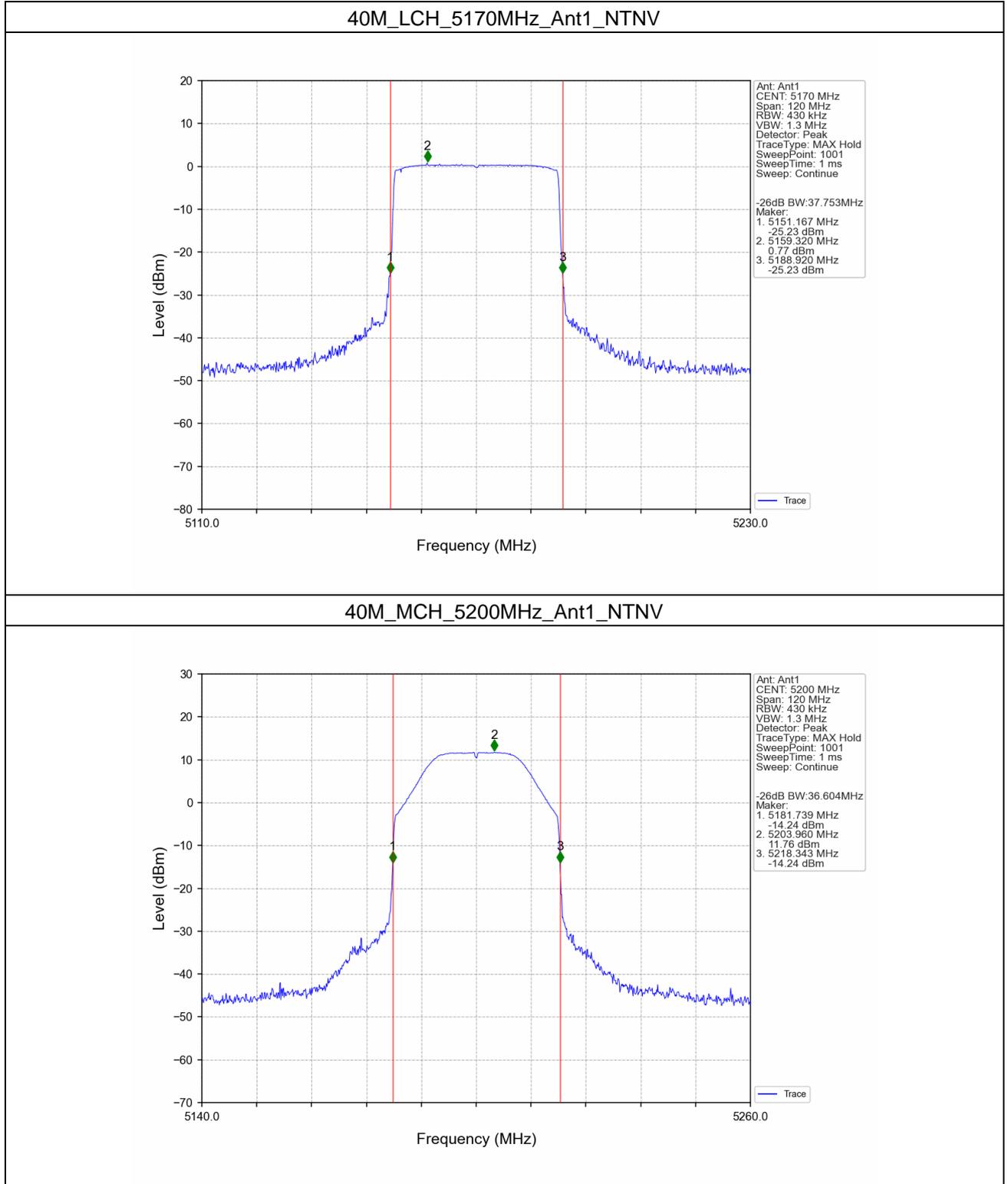
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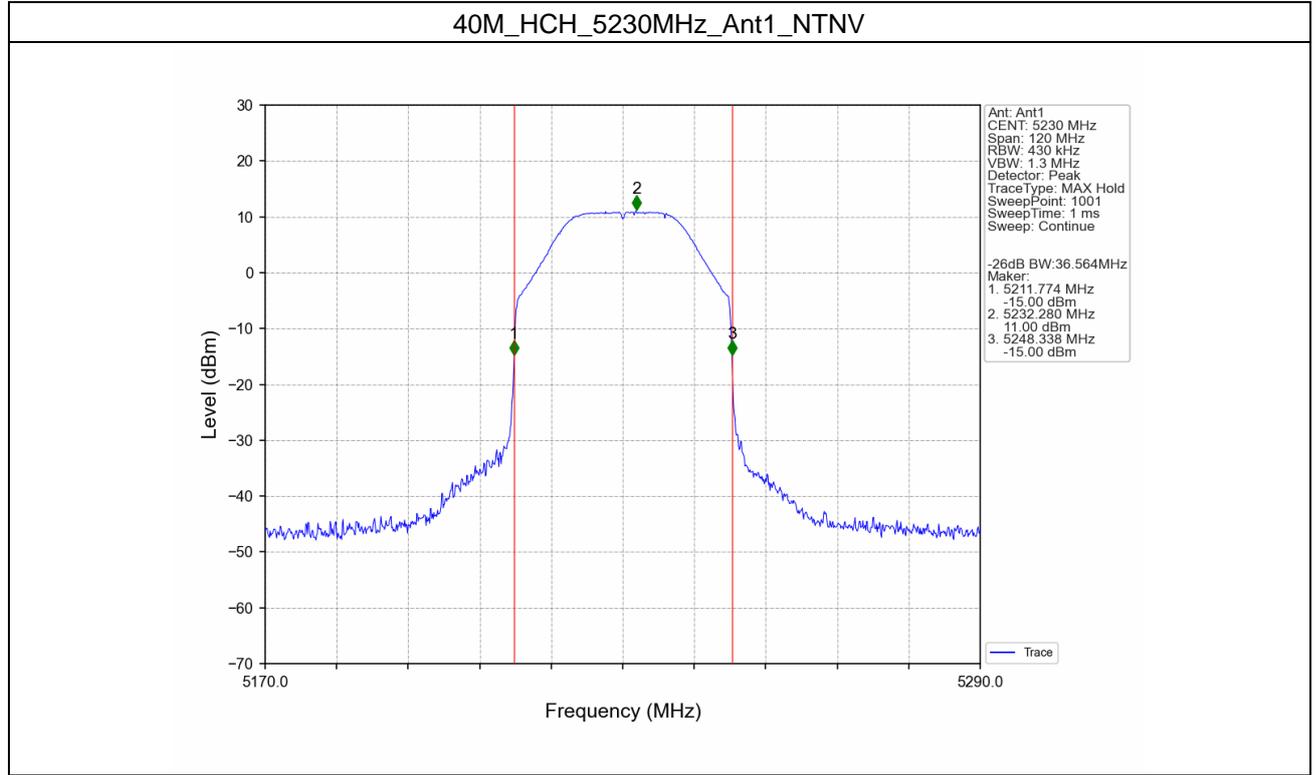
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
10M	MIMO	5157	6.41	5.75	9.10	<=23.98	Pass
		5200	15.64	15.95	18.81	<=23.98	Pass
		5245	14.45	16.26	18.46	<=23.98	Pass
20M	MIMO	5161	6.84	6.21	9.55	<=23.98	Pass
		5200	16.06	15.96	19.02	<=23.98	Pass
		5240	14.87	16.20	18.60	<=23.98	Pass
40M	MIMO	5170	8.65	8.30	11.49	<=23.98	Pass
		5200	16.40	16.15	19.29	<=23.98	Pass
		5230	15.59	16.56	19.11	<=23.98	Pass

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
10M	MIMO	5157	-2.19	-2.88	0.40	<=11	Pass
		5200	7.01	7.29	10.04	<=11	Pass
		5245	5.75	7.62	9.67	<=11	Pass
20M	MIMO	5161	-4.64	-5.22	-1.96	<=11	Pass
		5200	4.58	4.66	7.27	<=11	Pass
		5240	3.76	5.09	7.39	<=11	Pass
40M	MIMO	5170	-5.90	-5.76	-3.06	<=11	Pass
		5200	4.03	3.80	6.75	<=11	Pass
		5230	3.24	4.39	6.67	<=11	Pass

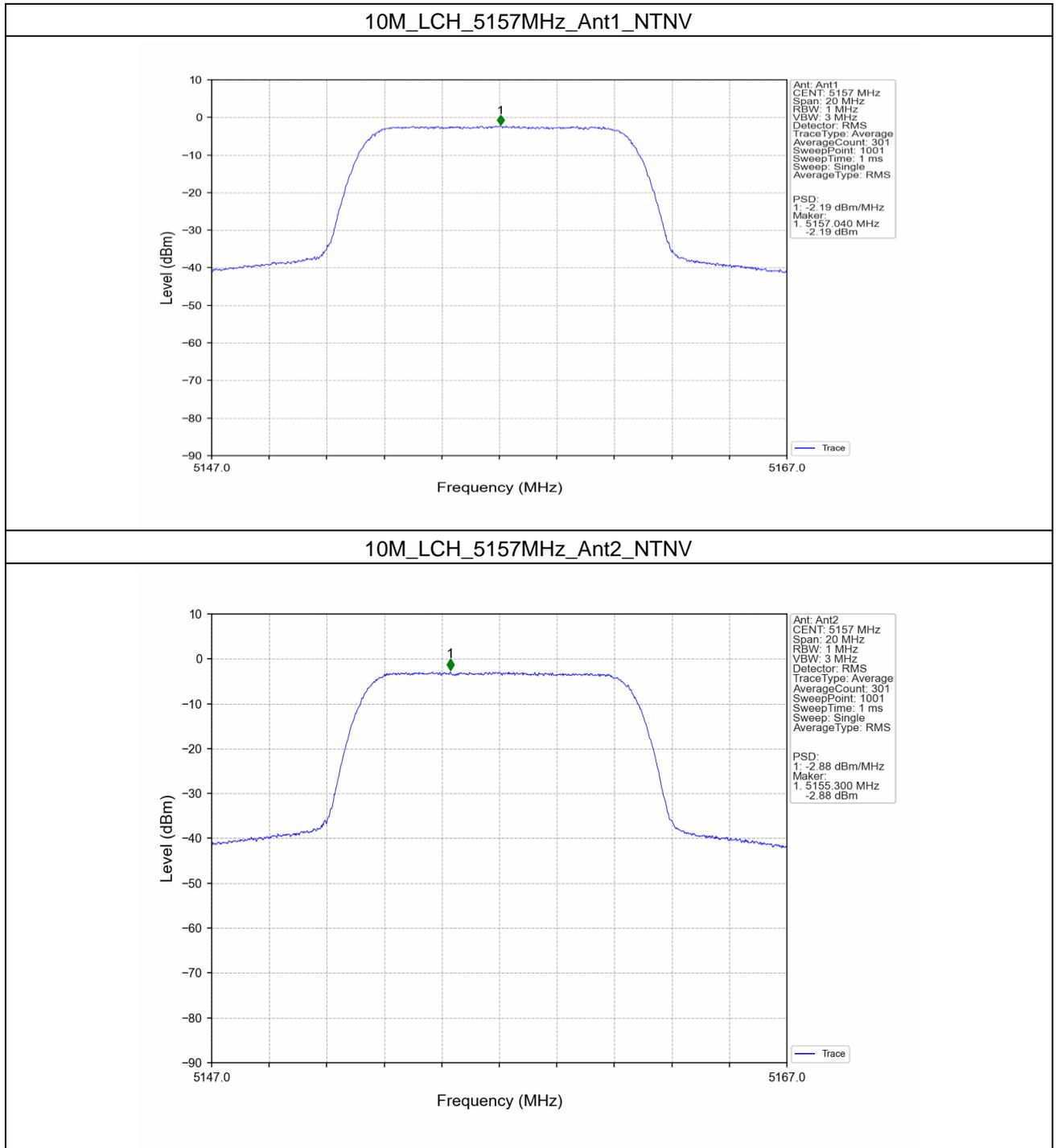


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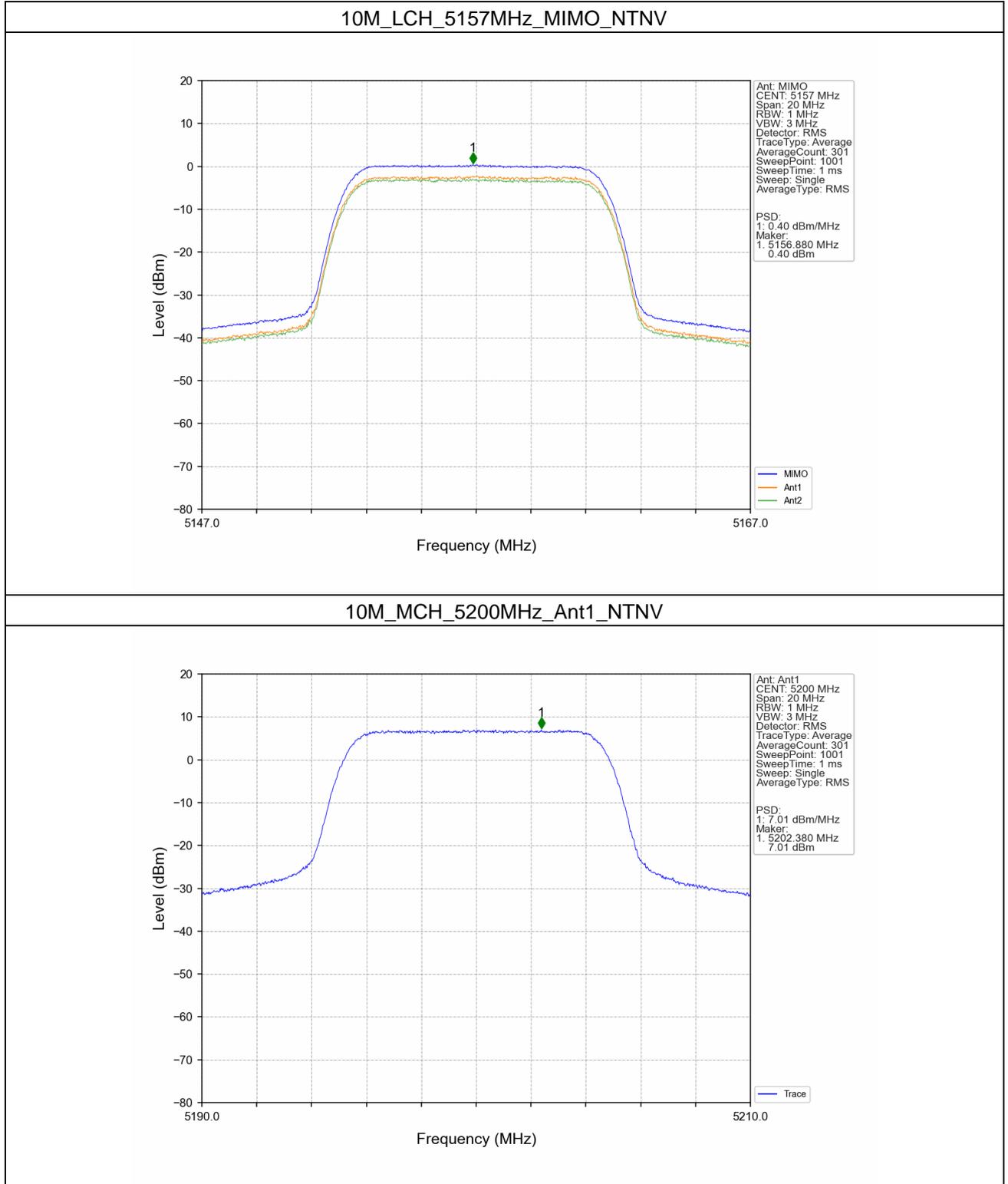
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4.2 Test Graph

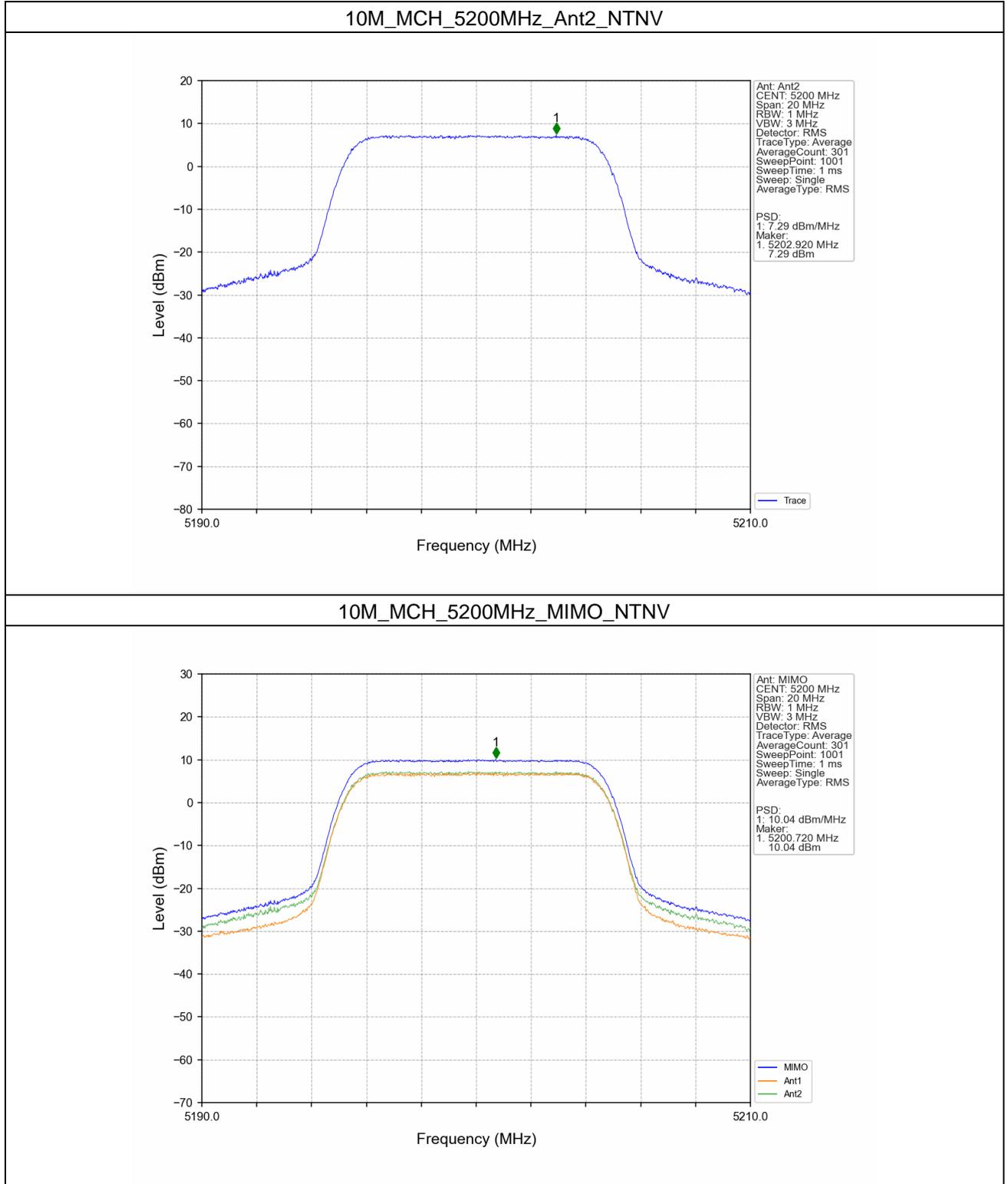
4.2.1 PSD



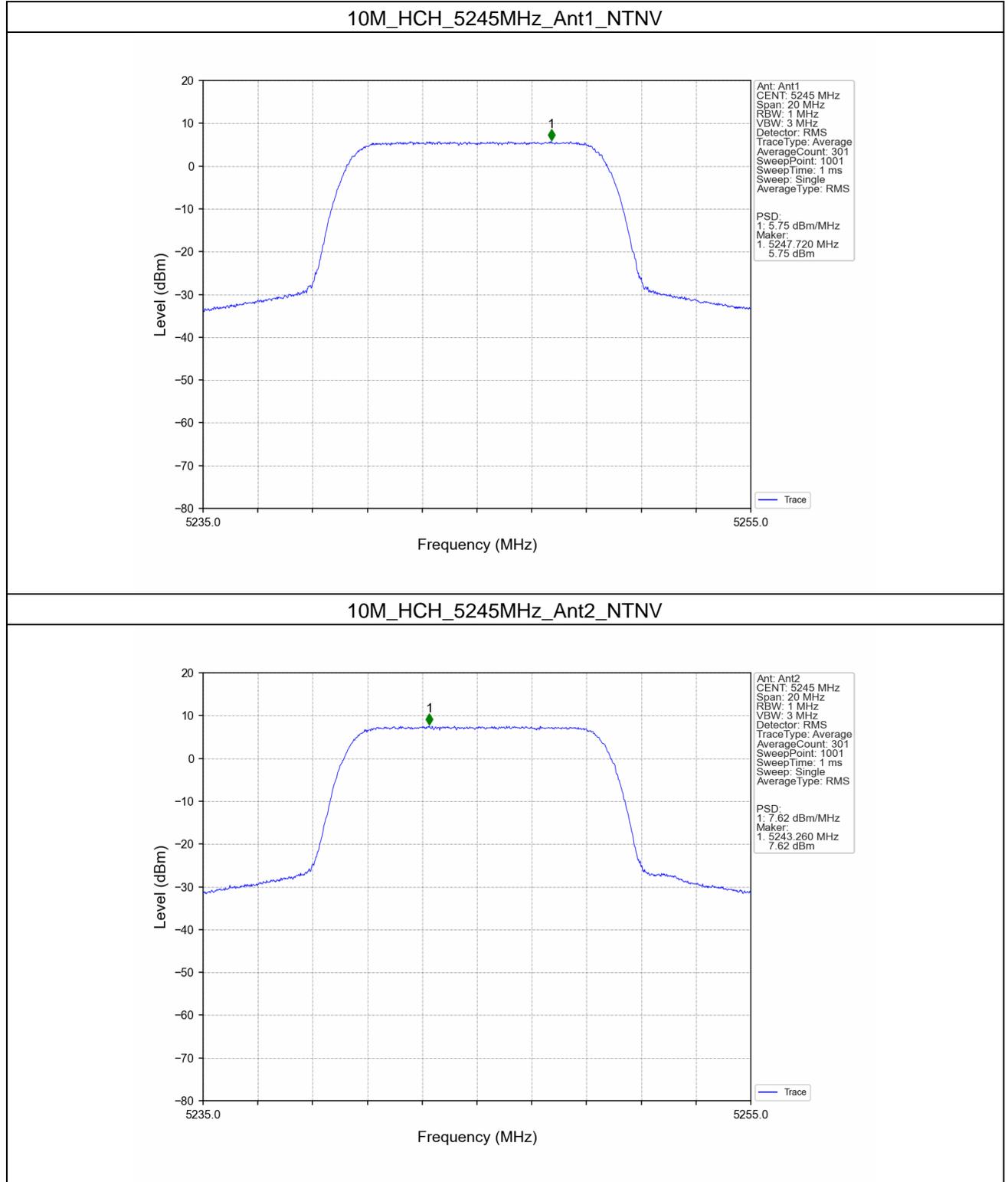
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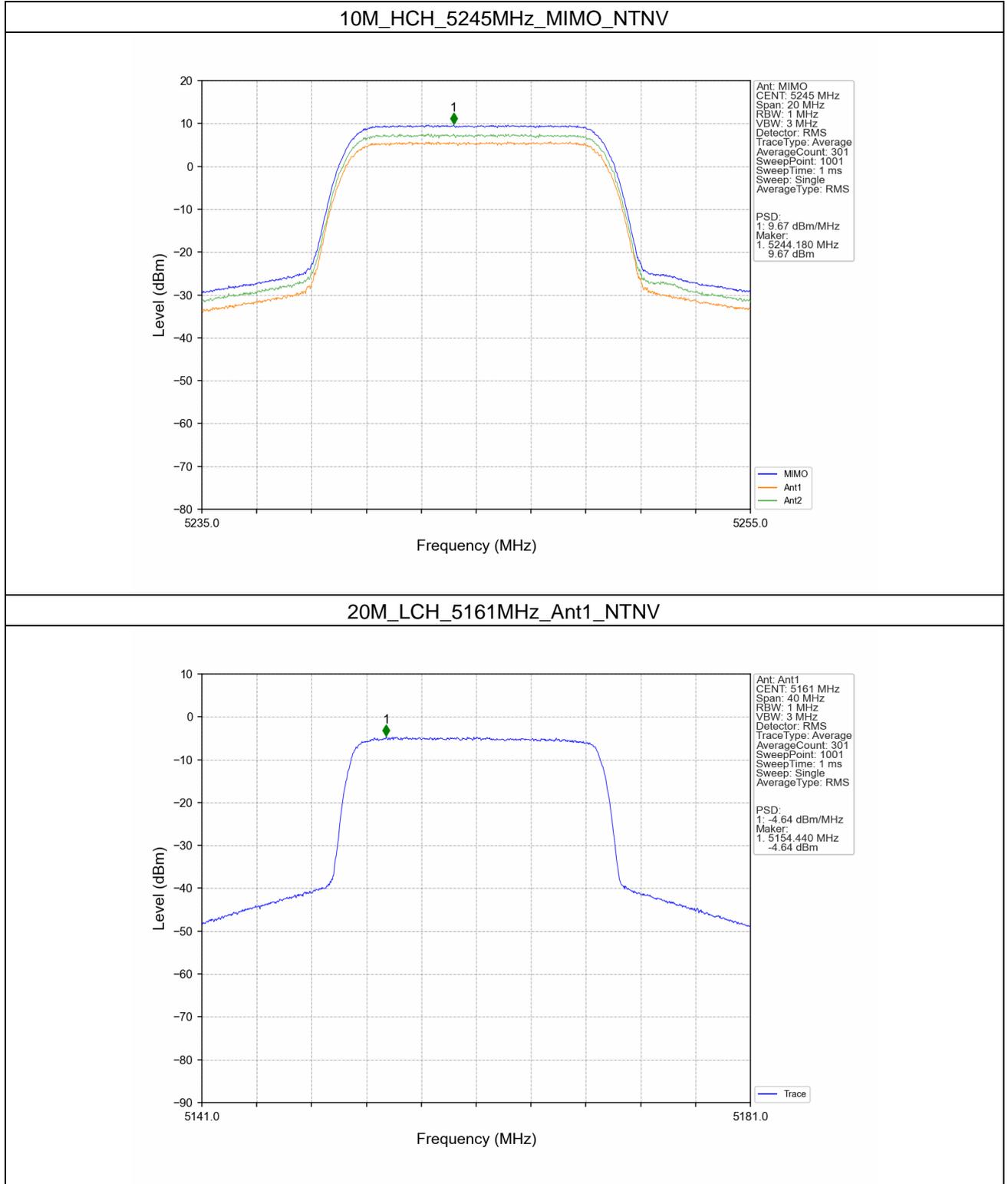
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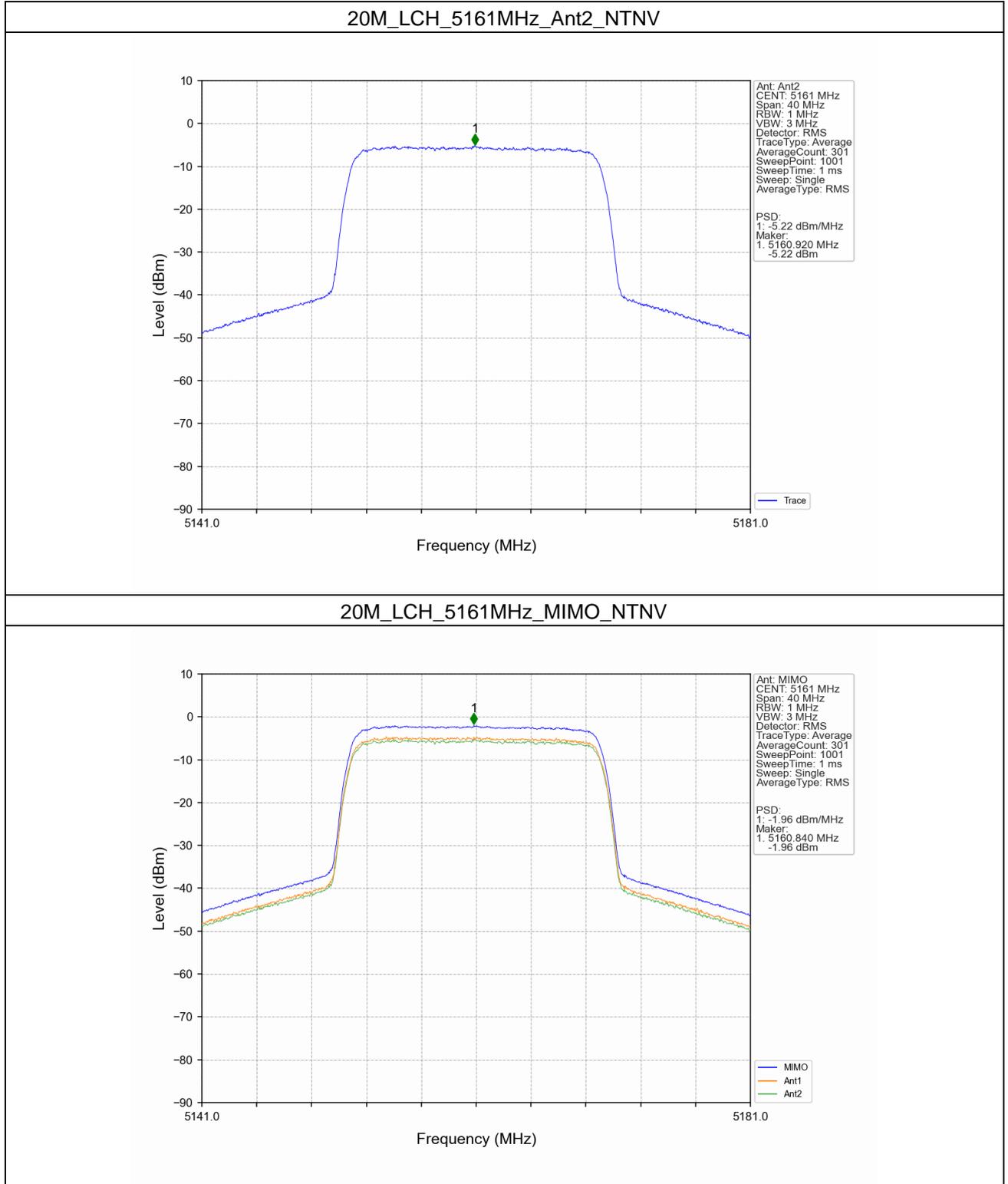


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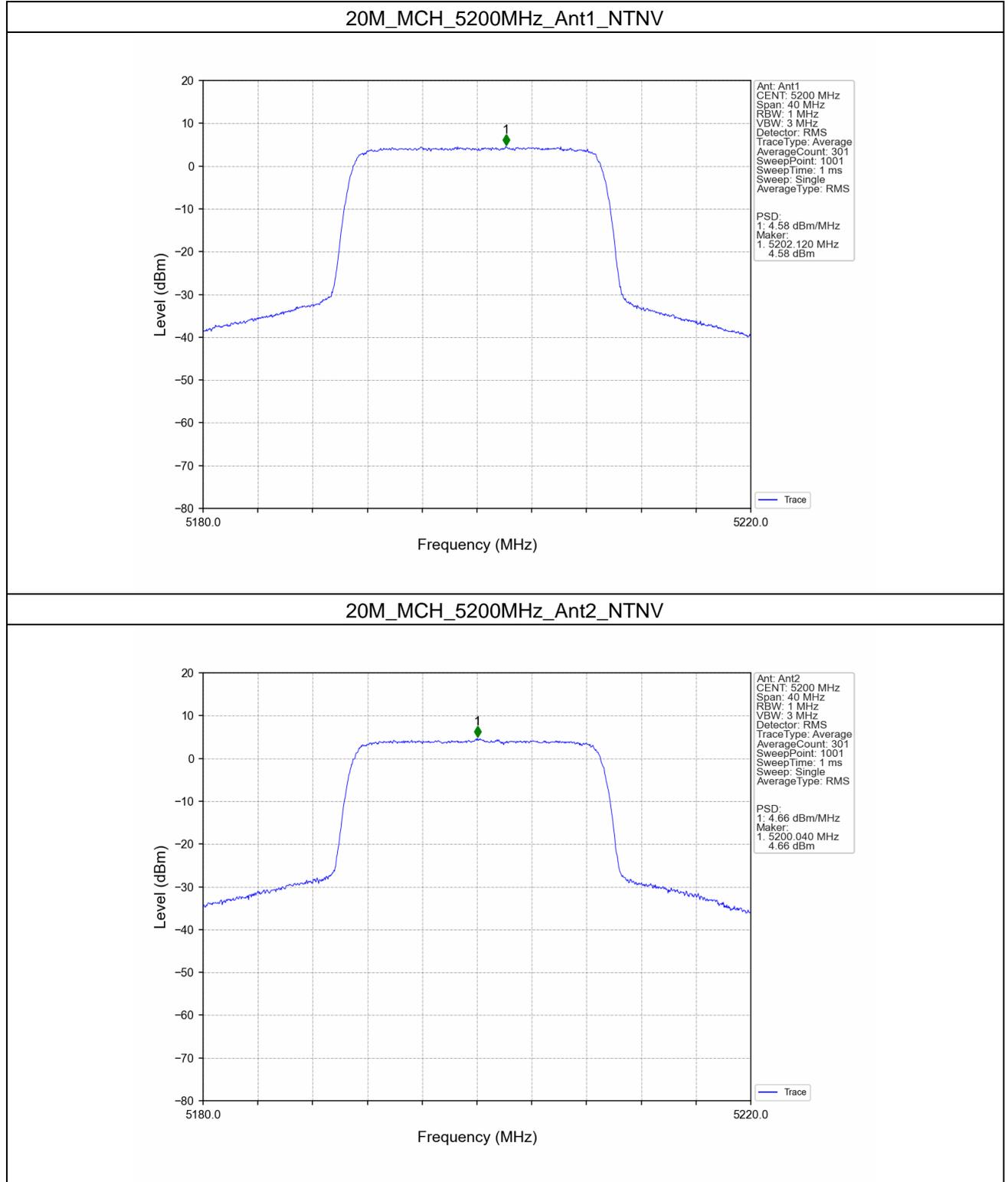
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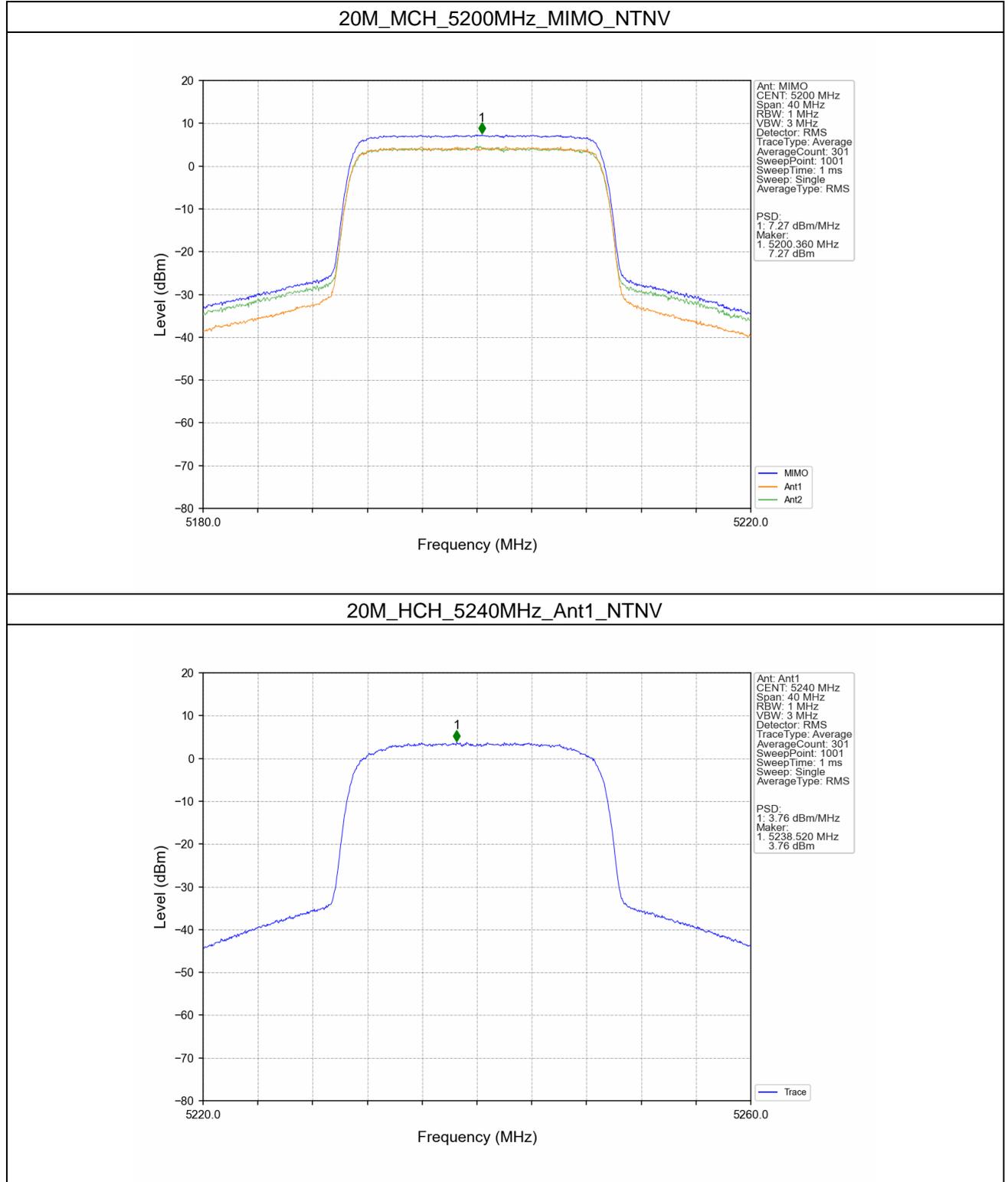


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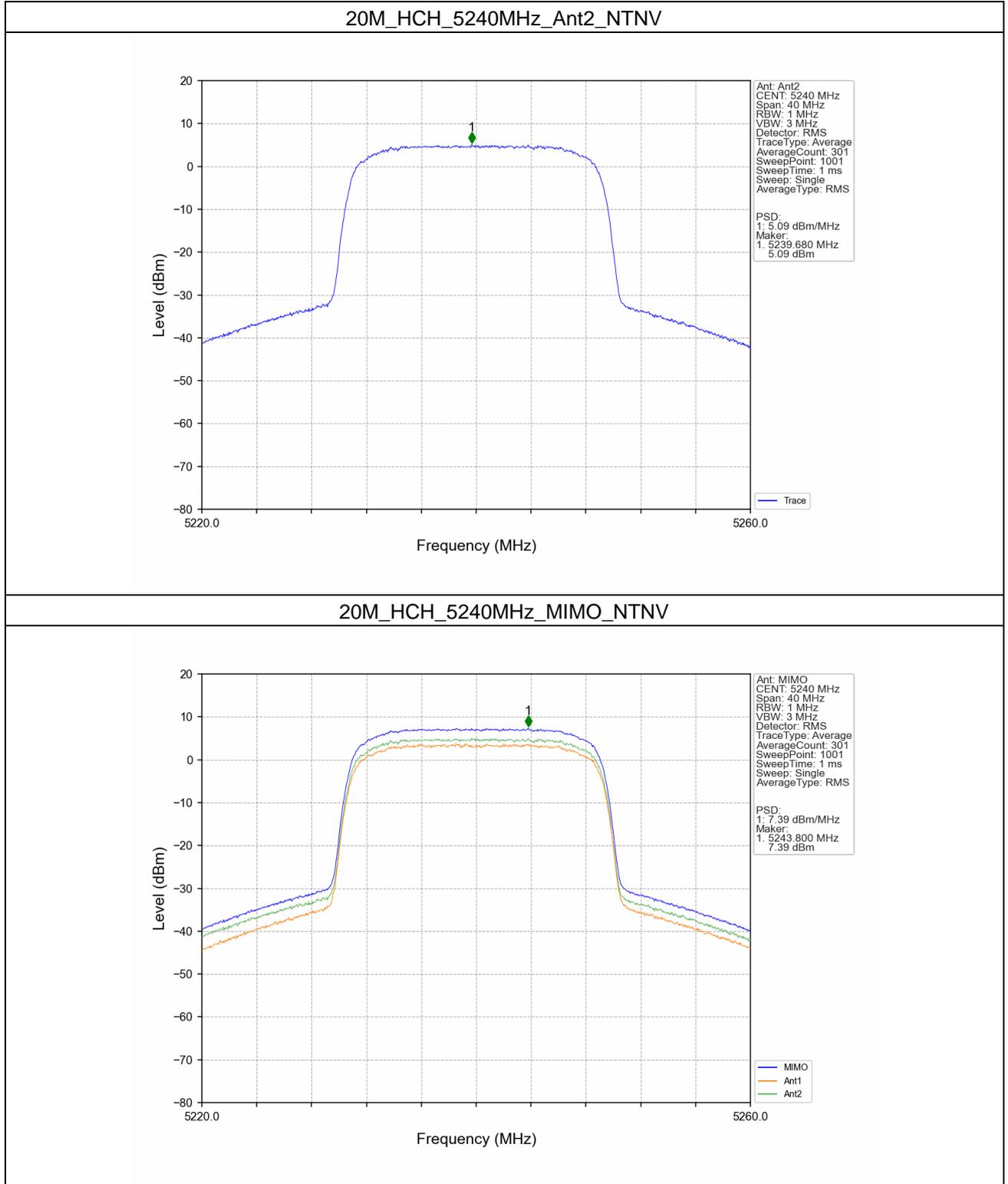
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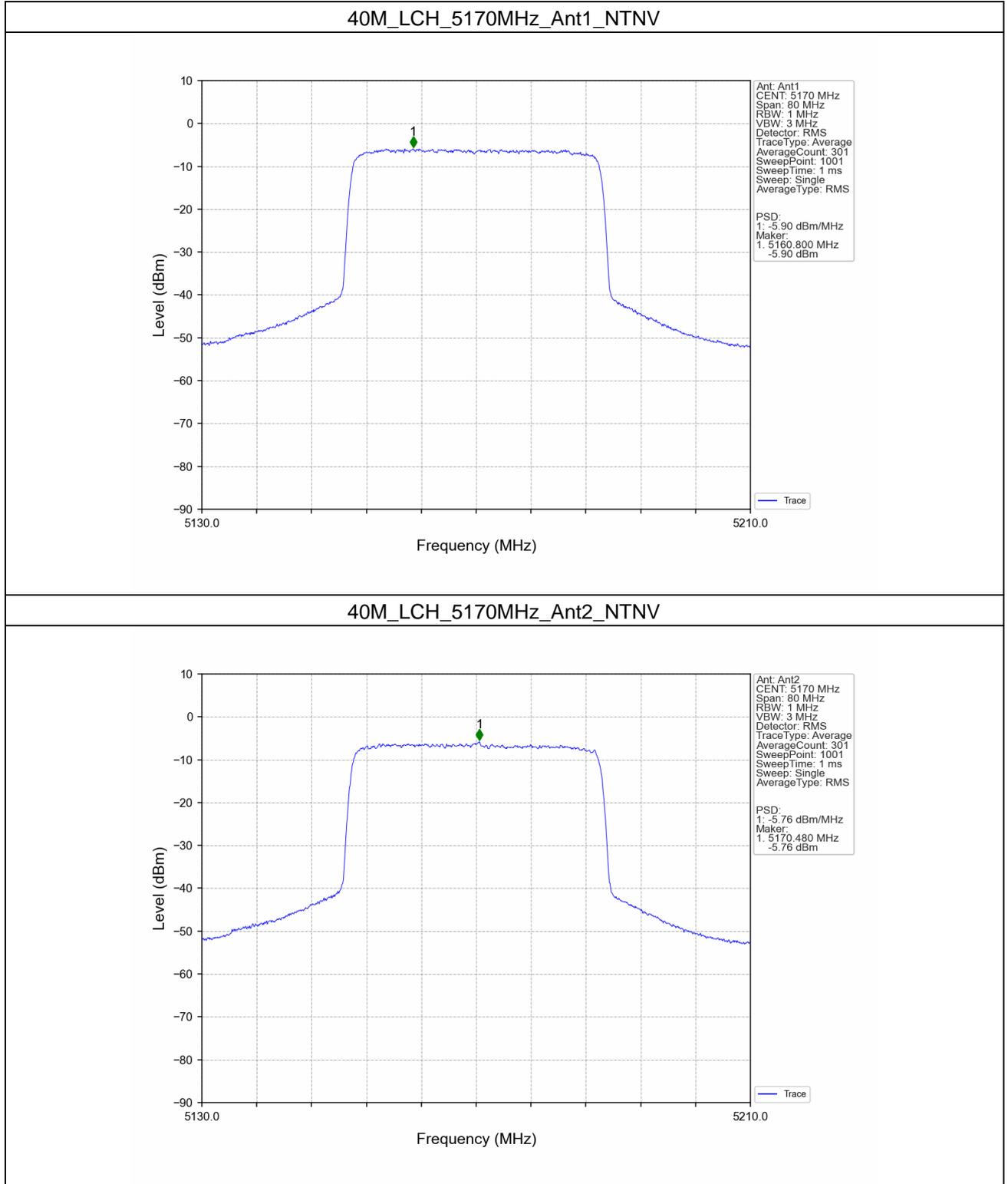
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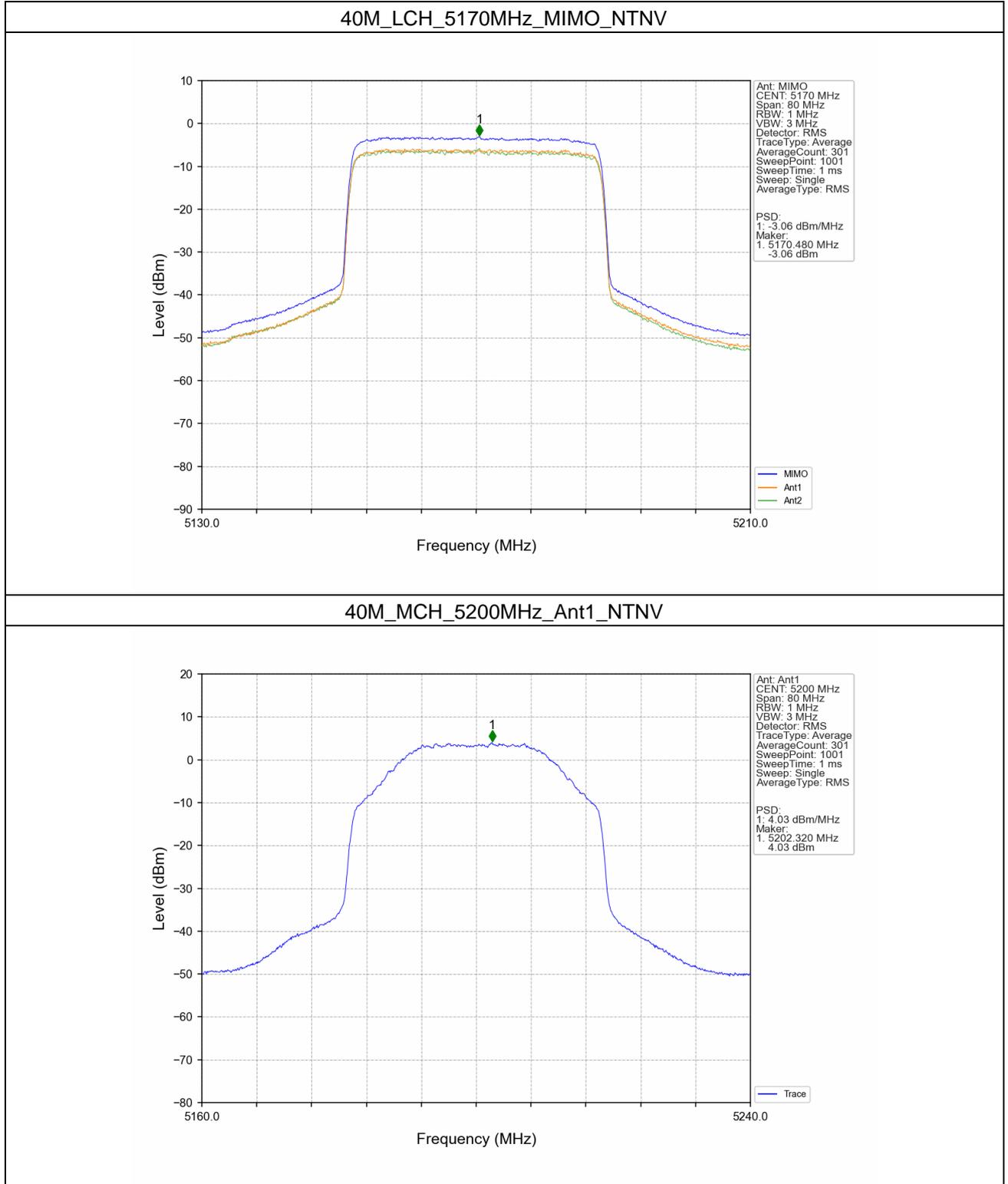
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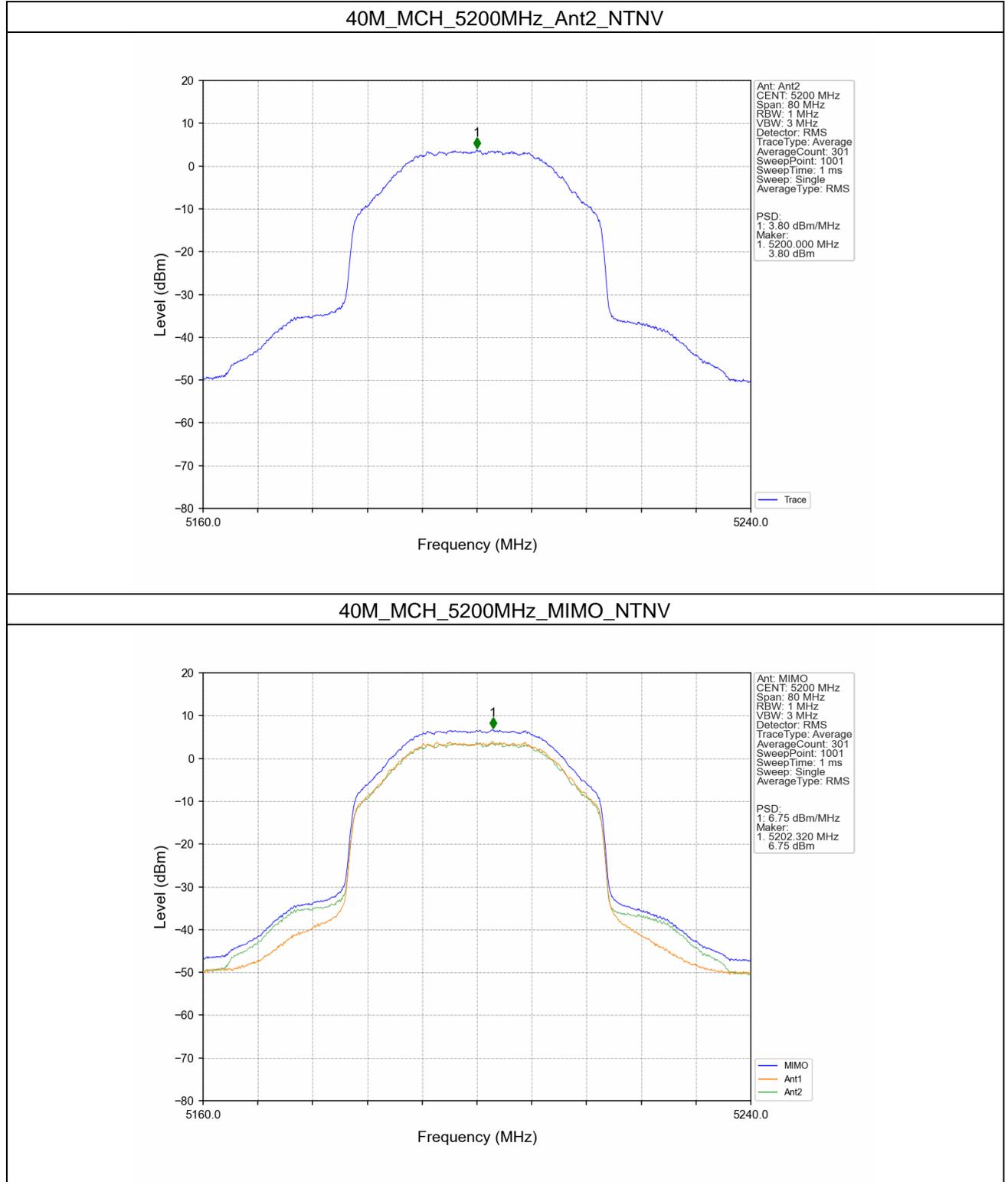


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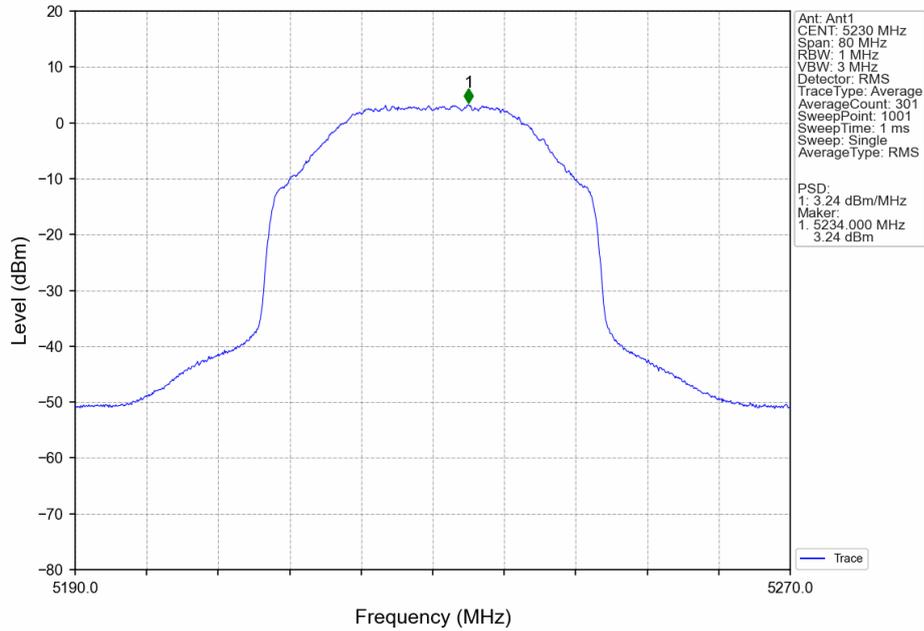
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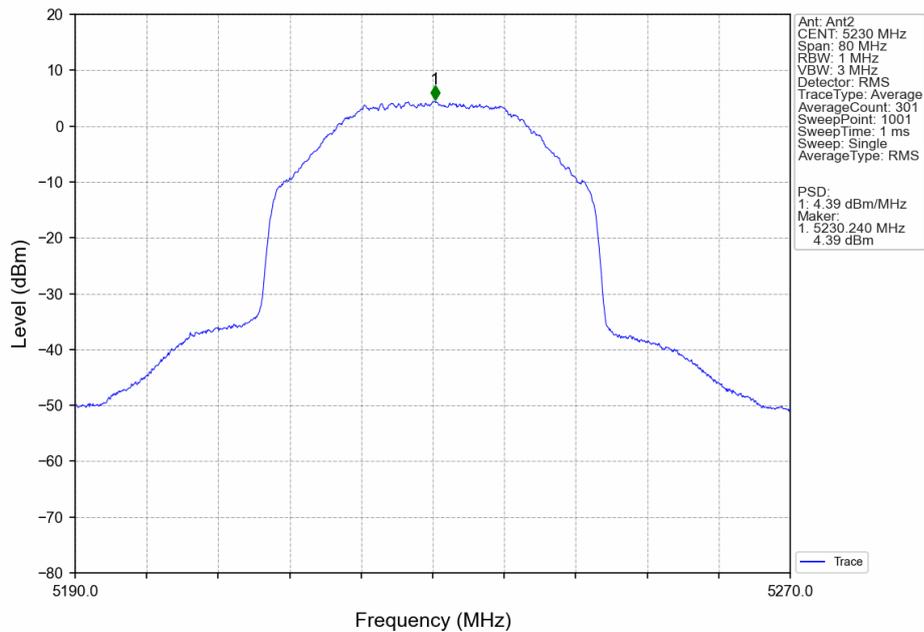


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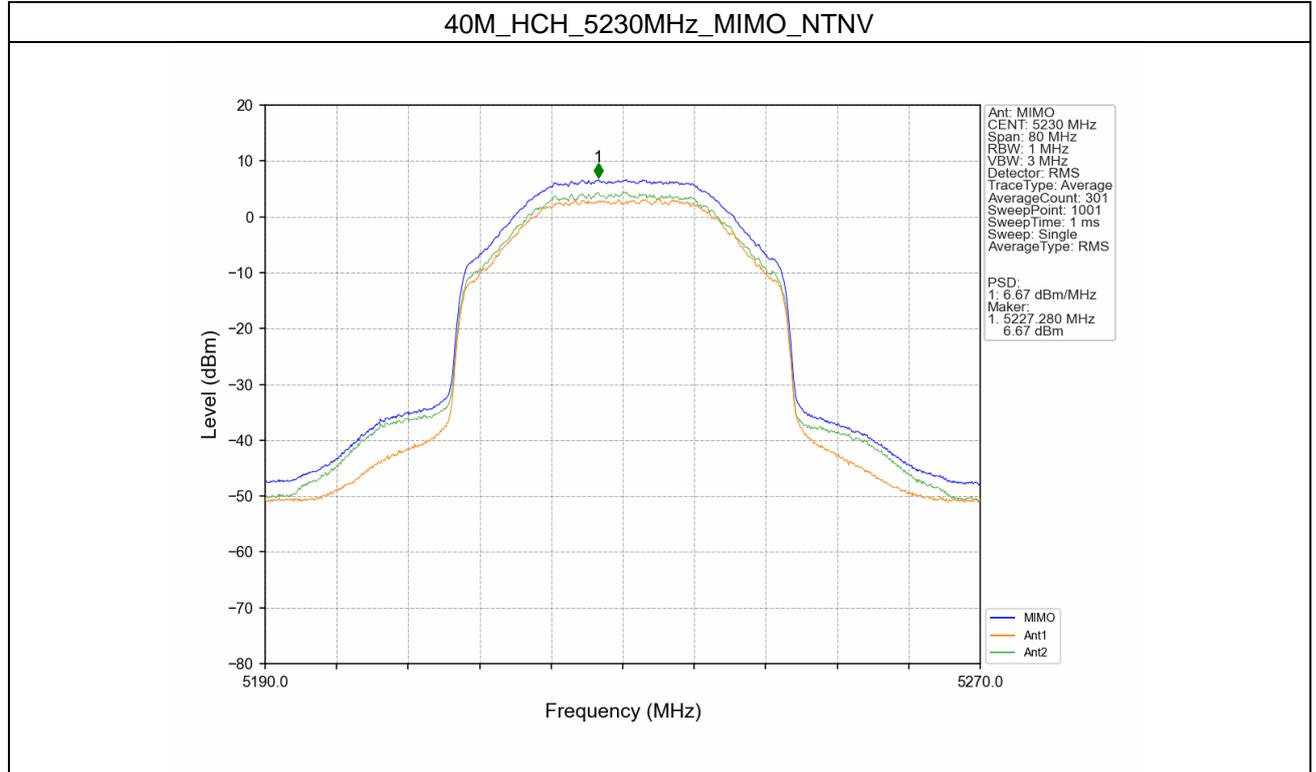
40M_HCH_5230MHz_Ant1_NTNV



40M_HCH_5230MHz_Ant2_NTNV



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5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10M	MIMO	5157	20	6.44	5157.020	5150 to 5250	Pass
				7.16	5156.960	5150 to 5250	Pass
				8.36	5156.970	5150 to 5250	Pass
			0	7.16	5156.950	5150 to 5250	Pass
			5	7.16	5157.020	5150 to 5250	Pass
			10	7.16	5156.960	5150 to 5250	Pass
			15	7.16	5157.000	5150 to 5250	Pass
			25	7.16	5156.970	5150 to 5250	Pass
			30	7.16	5156.970	5150 to 5250	Pass
			35	7.16	5157.010	5150 to 5250	Pass
		40	7.16	5156.970	5150 to 5250	Pass	
		5200	20	6.44	5199.980	5150 to 5250	Pass
				7.16	5199.990	5150 to 5250	Pass
				8.36	5199.970	5150 to 5250	Pass
			0	7.16	5199.980	5150 to 5250	Pass
			5	7.16	5199.990	5150 to 5250	Pass
			10	7.16	5200.000	5150 to 5250	Pass
			15	7.16	5199.980	5150 to 5250	Pass
			25	7.16	5200.020	5150 to 5250	Pass
			30	7.16	5199.970	5150 to 5250	Pass
			35	7.16	5200.020	5150 to 5250	Pass
		40	7.16	5199.990	5150 to 5250	Pass	
		5245	20	6.44	5244.930	5150 to 5250	Pass
				7.16	5244.970	5150 to 5250	Pass
				8.36	5244.940	5150 to 5250	Pass
			0	7.16	5244.960	5150 to 5250	Pass
			5	7.16	5244.970	5150 to 5250	Pass
			10	7.16	5244.980	5150 to 5250	Pass
			15	7.16	5244.950	5150 to 5250	Pass
			25	7.16	5245.010	5150 to 5250	Pass



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			30	7.16	5244.950	5150 to 5250	Pass		
			35	7.16	5244.930	5150 to 5250	Pass		
			40	7.16	5244.920	5150 to 5250	Pass		
20M	MIMO	5161	20	6.44	5161.000	5150 to 5250	Pass		
				7.16	5161.020	5150 to 5250	Pass		
				8.36	5161.020	5150 to 5250	Pass		
			0	7.16	5161.020	5150 to 5250	Pass		
			5	7.16	5161.020	5150 to 5250	Pass		
			10	7.16	5161.020	5150 to 5250	Pass		
			15	7.16	5161.020	5150 to 5250	Pass		
			25	7.16	5161.020	5150 to 5250	Pass		
			30	7.16	5161.020	5150 to 5250	Pass		
			35	7.16	5161.000	5150 to 5250	Pass		
			40	7.16	5161.020	5150 to 5250	Pass		
			5200	20	6.44	5200.020	5150 to 5250	Pass	
		7.16			5200.020	5150 to 5250	Pass		
		8.36			5200.020	5150 to 5250	Pass		
		0		7.16	5200.020	5150 to 5250	Pass		
		5		7.16	5200.020	5150 to 5250	Pass		
		10		7.16	5200.020	5150 to 5250	Pass		
		15		7.16	5200.000	5150 to 5250	Pass		
		25		7.16	5200.020	5150 to 5250	Pass		
		30		7.16	5200.000	5150 to 5250	Pass		
		35		7.16	5200.020	5150 to 5250	Pass		
		40		7.16	5200.040	5150 to 5250	Pass		
		5240		20	6.44	5240.000	5150 to 5250	Pass	
			7.16		5240.000	5150 to 5250	Pass		
			8.36		5240.040	5150 to 5250	Pass		
			0	7.16	5240.020	5150 to 5250	Pass		
			5	7.16	5240.040	5150 to 5250	Pass		
			10	7.16	5240.040	5150 to 5250	Pass		
			15	7.16	5240.020	5150 to 5250	Pass		
			25	7.16	5240.040	5150 to 5250	Pass		
			30	7.16	5240.020	5150 to 5250	Pass		
			35	7.16	5240.040	5150 to 5250	Pass		
			40	7.16	5240.040	5150 to 5250	Pass		
			40M	MIMO	5170	20	6.44	5170.000	5150 to 5250
		7.16					5170.000	5150 to 5250	Pass
		8.36					5170.000	5150 to 5250	Pass
0	7.16	5170.080					5150 to 5250	Pass	



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		5200	5	7.16	5170.040	5150 to 5250	Pass	
			10	7.16	5170.000	5150 to 5250	Pass	
			15	7.16	5170.040	5150 to 5250	Pass	
			25	7.16	5170.000	5150 to 5250	Pass	
			30	7.16	5170.040	5150 to 5250	Pass	
			35	7.16	5170.040	5150 to 5250	Pass	
			40	7.16	5170.080	5150 to 5250	Pass	
		5200	20	6.44	5200.120	5150 to 5250	Pass	
				7.16	5200.080	5150 to 5250	Pass	
				8.36	5200.200	5150 to 5250	Pass	
			0	7.16	5199.920	5150 to 5250	Pass	
			5	7.16	5200.080	5150 to 5250	Pass	
			10	7.16	5200.240	5150 to 5250	Pass	
			15	7.16	5200.120	5150 to 5250	Pass	
			25	7.16	5200.080	5150 to 5250	Pass	
			30	7.16	5200.080	5150 to 5250	Pass	
			35	7.16	5200.080	5150 to 5250	Pass	
			40	7.16	5200.200	5150 to 5250	Pass	
			5230	20	6.44	5230.200	5150 to 5250	Pass
					7.16	5230.160	5150 to 5250	Pass
		8.36			5230.080	5150 to 5250	Pass	
		0		7.16	5230.120	5150 to 5250	Pass	
		5		7.16	5230.160	5150 to 5250	Pass	
		10		7.16	5230.080	5150 to 5250	Pass	
		15		7.16	5230.080	5150 to 5250	Pass	
		25		7.16	5230.120	5150 to 5250	Pass	
		30		7.16	5230.080	5150 to 5250	Pass	
		35		7.16	5230.040	5150 to 5250	Pass	
		40		7.16	5230.080	5150 to 5250	Pass	

5.1.2 Ant2

Ant2							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10M	MIMO	5157	20	6.44	5157.010	5150 to 5250	Pass
				7.16	5157.030	5150 to 5250	Pass
				8.36	5157.010	5150 to 5250	Pass
			0	7.16	5157.010	5150 to 5250	Pass
			5	7.16	5157.010	5150 to 5250	Pass
			10	7.16	5157.040	5150 to 5250	Pass



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			15	7.16	5157.010	5150 to 5250	Pass		
			25	7.16	5157.010	5150 to 5250	Pass		
			30	7.16	5157.030	5150 to 5250	Pass		
			35	7.16	5157.030	5150 to 5250	Pass		
			40	7.16	5157.010	5150 to 5250	Pass		
		5200	20	6.44	5200.030	5150 to 5250	Pass		
				7.16	5200.040	5150 to 5250	Pass		
				8.36	5200.010	5150 to 5250	Pass		
			0	7.16	5200.000	5150 to 5250	Pass		
			5	7.16	5200.030	5150 to 5250	Pass		
			10	7.16	5200.030	5150 to 5250	Pass		
			15	7.16	5200.010	5150 to 5250	Pass		
			25	7.16	5200.030	5150 to 5250	Pass		
			30	7.16	5200.020	5150 to 5250	Pass		
			35	7.16	5200.030	5150 to 5250	Pass		
			40	7.16	5200.030	5150 to 5250	Pass		
			5245	20	6.44	5245.010	5150 to 5250	Pass	
		7.16			5245.020	5150 to 5250	Pass		
		8.36			5245.030	5150 to 5250	Pass		
		0		7.16	5245.010	5150 to 5250	Pass		
		5		7.16	5245.020	5150 to 5250	Pass		
		10		7.16	5245.010	5150 to 5250	Pass		
		15		7.16	5245.030	5150 to 5250	Pass		
		25		7.16	5245.030	5150 to 5250	Pass		
		30		7.16	5245.040	5150 to 5250	Pass		
		35		7.16	5245.010	5150 to 5250	Pass		
		40	7.16	5245.050	5150 to 5250	Pass			
		20M	MIMO	5161	20	6.44	5161.000	5150 to 5250	Pass
						7.16	5161.000	5150 to 5250	Pass
						8.36	5160.960	5150 to 5250	Pass
					0	7.16	5161.000	5150 to 5250	Pass
					5	7.16	5161.000	5150 to 5250	Pass
					10	7.16	5161.000	5150 to 5250	Pass
15	7.16				5161.000	5150 to 5250	Pass		
25	7.16				5161.000	5150 to 5250	Pass		
30	7.16				5161.000	5150 to 5250	Pass		
35	7.16				5161.000	5150 to 5250	Pass		
40	7.16			5160.980	5150 to 5250	Pass			
5200	20			6.44	5200.000	5150 to 5250	Pass		
				7.16	5200.000	5150 to 5250	Pass		



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				8.36	5200.000	5150 to 5250	Pass			
			0	7.16	5200.000	5150 to 5250	Pass			
			5	7.16	5200.000	5150 to 5250	Pass			
			10	7.16	5200.020	5150 to 5250	Pass			
			15	7.16	5200.020	5150 to 5250	Pass			
			25	7.16	5200.000	5150 to 5250	Pass			
			30	7.16	5200.000	5150 to 5250	Pass			
			35	7.16	5200.020	5150 to 5250	Pass			
			40	7.16	5200.000	5150 to 5250	Pass			
			5240	20	6.44	5240.040	5150 to 5250	Pass		
					7.16	5240.000	5150 to 5250	Pass		
					8.36	5240.000	5150 to 5250	Pass		
				0	7.16	5240.020	5150 to 5250	Pass		
				5	7.16	5240.020	5150 to 5250	Pass		
		10		7.16	5240.000	5150 to 5250	Pass			
		15		7.16	5240.000	5150 to 5250	Pass			
		25		7.16	5240.000	5150 to 5250	Pass			
		30		7.16	5240.040	5150 to 5250	Pass			
		35		7.16	5240.000	5150 to 5250	Pass			
		40		7.16	5240.040	5150 to 5250	Pass			
		40M		MIMO	5170	20	6.44	5170.040	5150 to 5250	Pass
							7.16	5170.040	5150 to 5250	Pass
							8.36	5170.000	5150 to 5250	Pass
			0			7.16	5170.040	5150 to 5250	Pass	
			5			7.16	5170.040	5150 to 5250	Pass	
			10			7.16	5170.040	5150 to 5250	Pass	
			15			7.16	5170.040	5150 to 5250	Pass	
			25			7.16	5170.000	5150 to 5250	Pass	
30	7.16		5170.040			5150 to 5250	Pass			
35	7.16		5170.000			5150 to 5250	Pass			
40	7.16		5170.040		5150 to 5250	Pass				
5200	20		6.44		5200.040	5150 to 5250	Pass			
			7.16		5199.880	5150 to 5250	Pass			
			8.36		5200.040	5150 to 5250	Pass			
	0	7.16	5200.000	5150 to 5250	Pass					
	5	7.16	5200.080	5150 to 5250	Pass					
	10	7.16	5200.000	5150 to 5250	Pass					
	15	7.16	5199.920	5150 to 5250	Pass					
	25	7.16	5200.040	5150 to 5250	Pass					
30	7.16	5200.040	5150 to 5250	Pass						



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			35	7.16	5200.040	5150 to 5250	Pass
			40	7.16	5200.040	5150 to 5250	Pass
		5230	20	6.44	5230.000	5150 to 5250	Pass
				7.16	5230.040	5150 to 5250	Pass
				8.36	5230.040	5150 to 5250	Pass
			0	7.16	5230.040	5150 to 5250	Pass
			5	7.16	5230.080	5150 to 5250	Pass
			10	7.16	5230.080	5150 to 5250	Pass
			15	7.16	5230.080	5150 to 5250	Pass
			25	7.16	5230.040	5150 to 5250	Pass
			30	7.16	5230.080	5150 to 5250	Pass
			35	7.16	5230.040	5150 to 5250	Pass
			40	7.16	5230.040	5150 to 5250	Pass



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5.8G SDR ANT03 test data

1. Duty Cycle

1.1 Test Result

1.1.1 Ant0

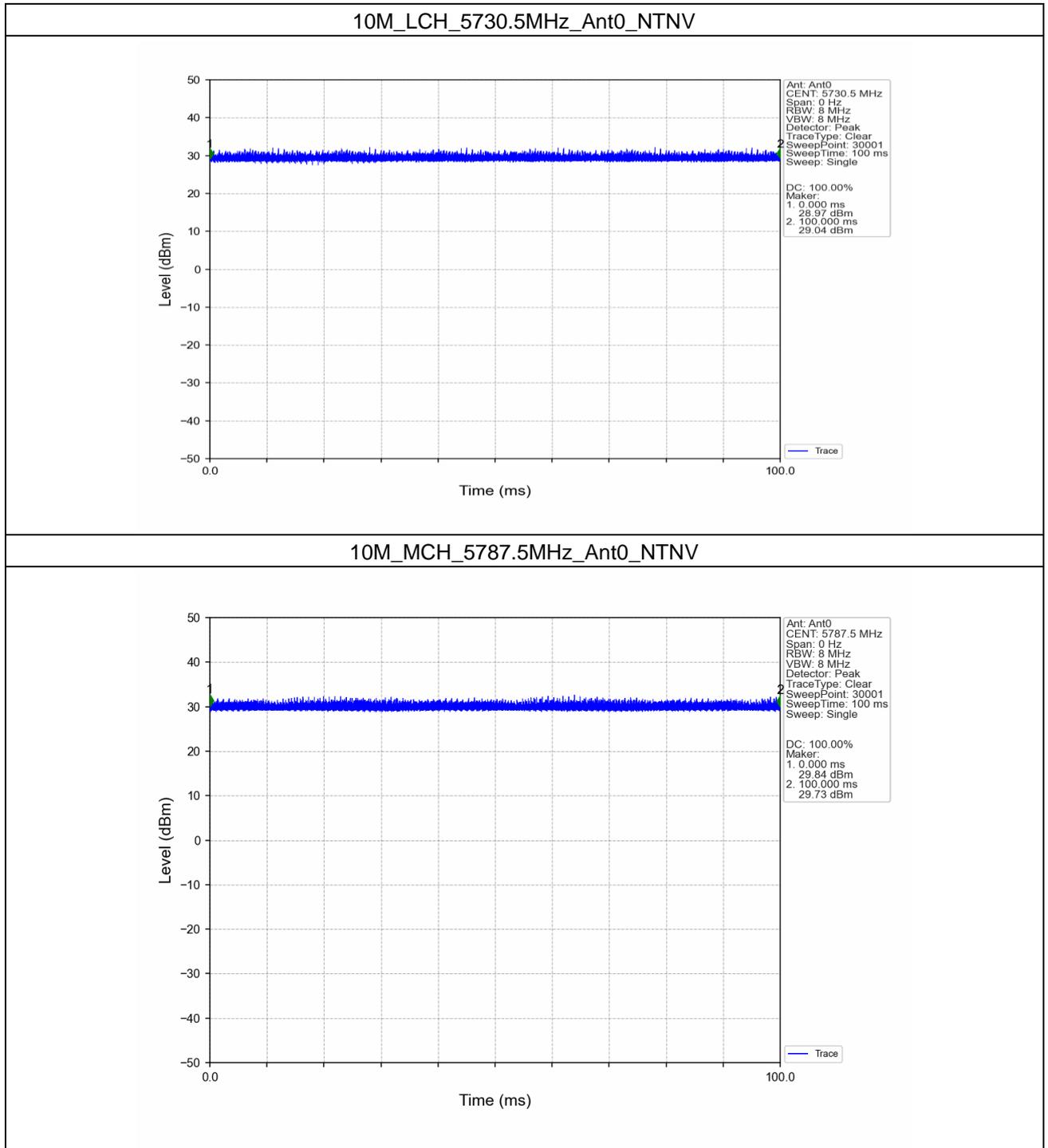
Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
10M	MIMO	5730.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5844.5	100.000	100.000	100.00	0.00	0.00
20M	MIMO	5735.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5839.5	100.000	100.000	100.00	0.00	0.00
40M	MIMO	5745.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5829.5	100.000	100.000	100.00	0.00	0.00
60M	MIMO	5755.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5819.5	100.000	100.000	100.00	0.00	0.00
80M	MIMO	5765.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5809.5	100.000	100.000	100.00	0.00	0.00



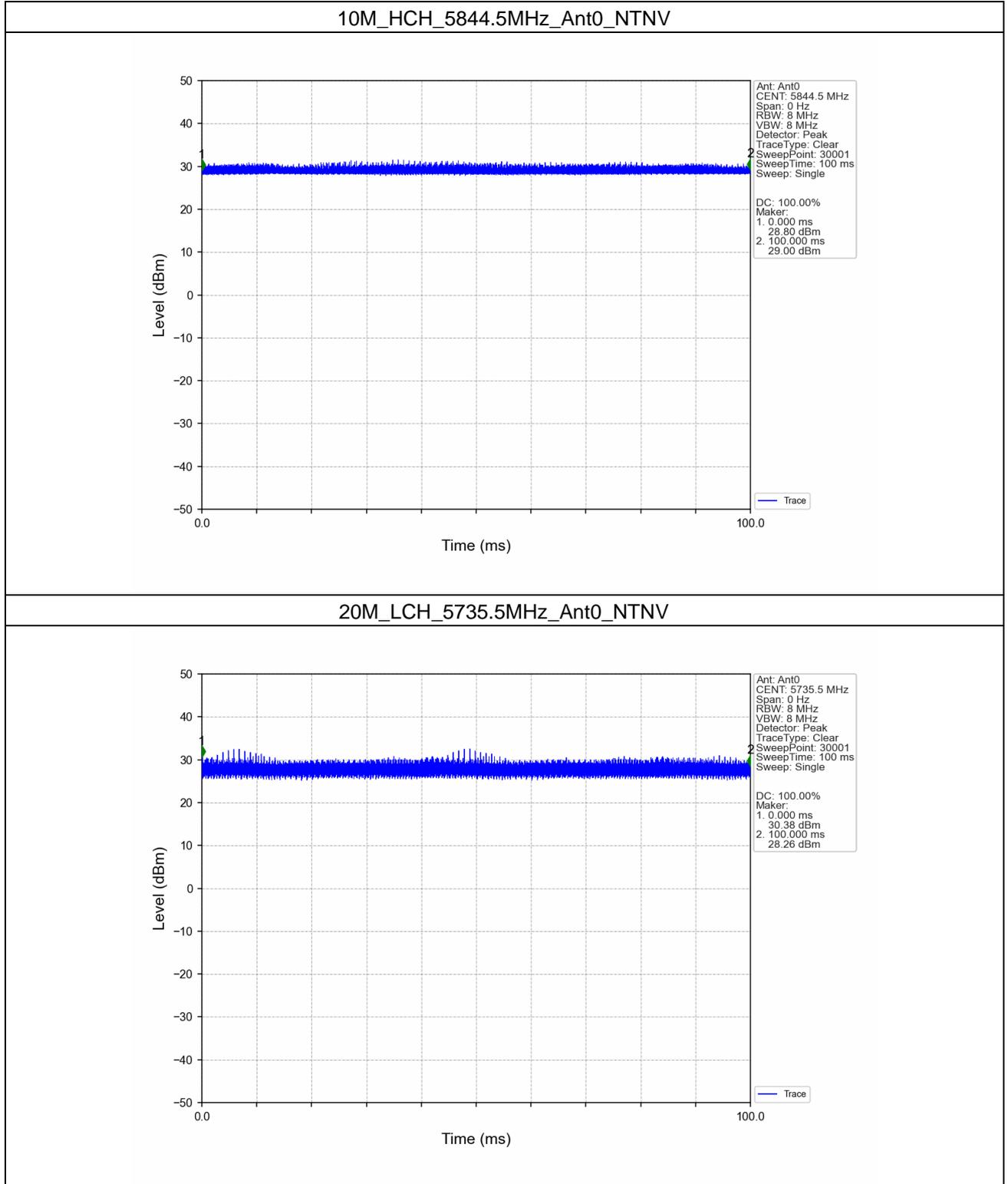
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1.2 Test Graph

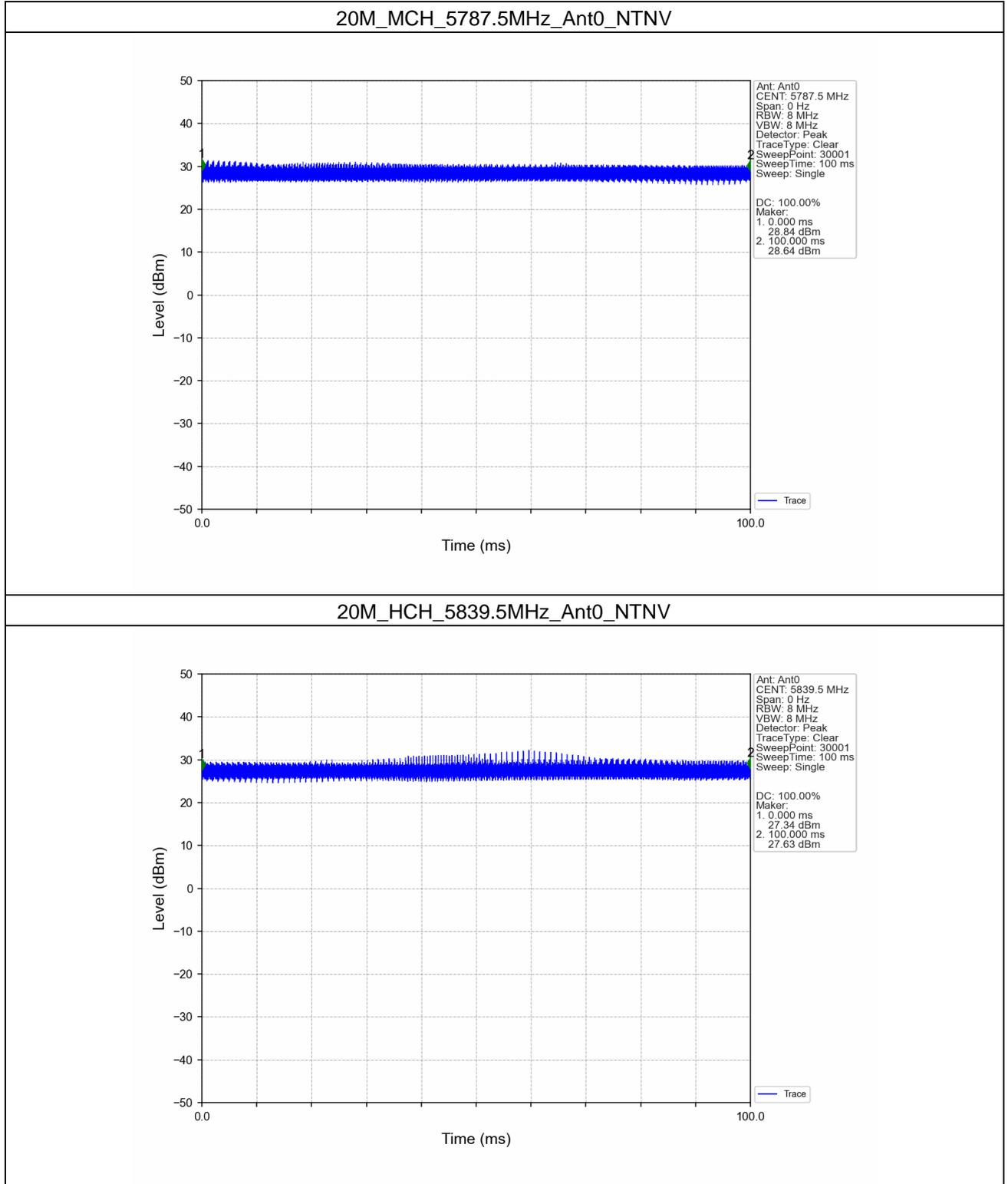
1.2.1 Ant0



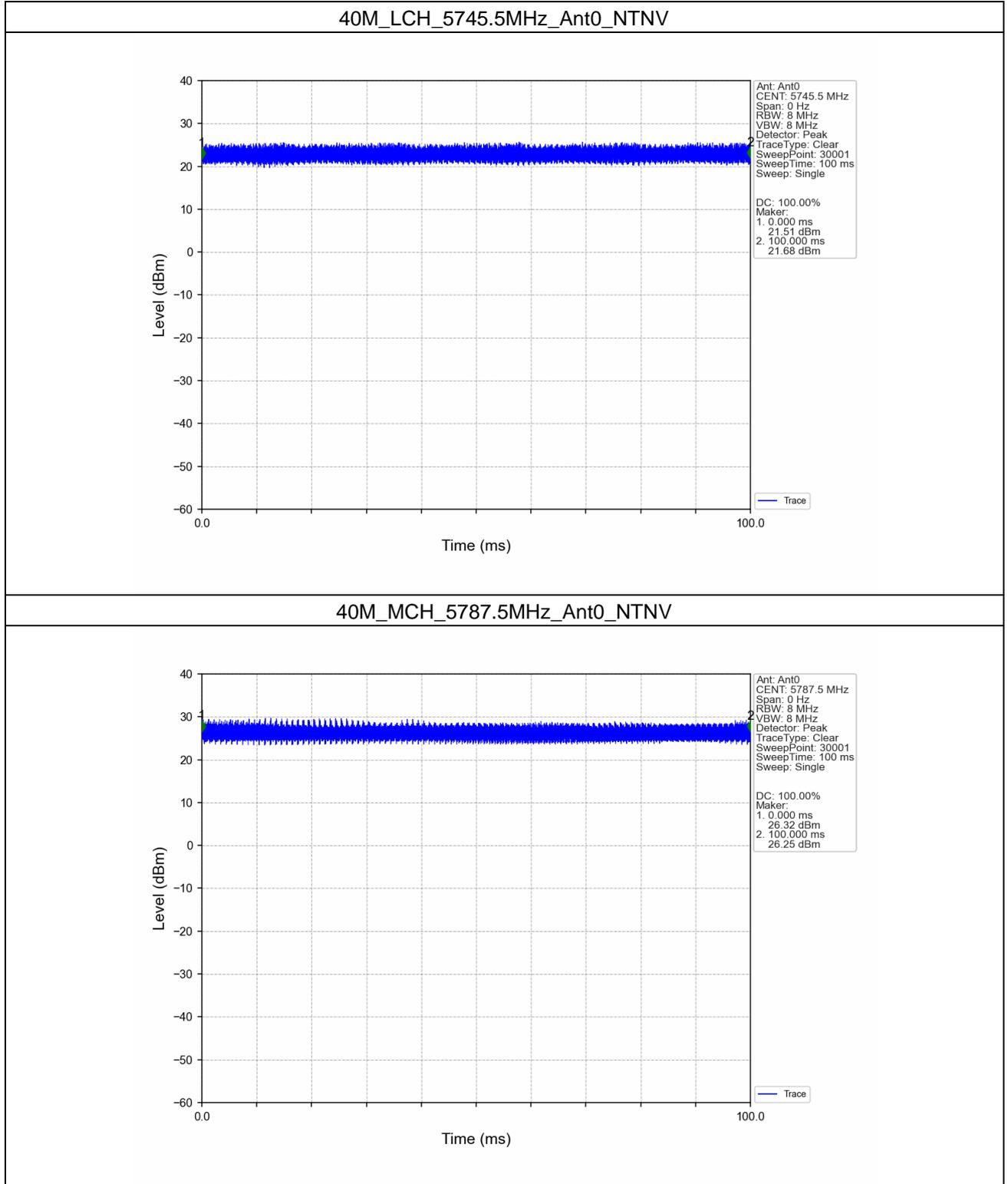
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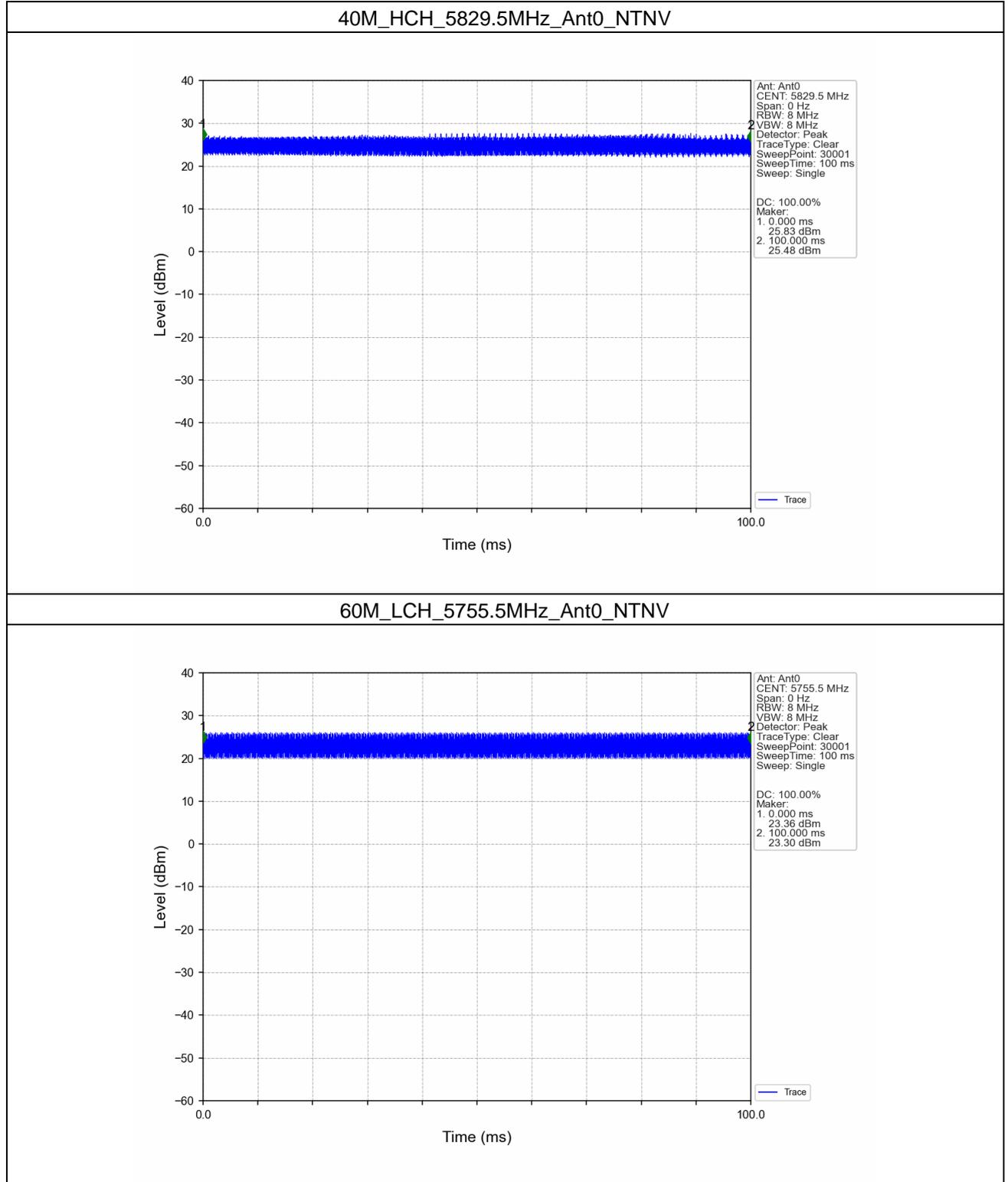
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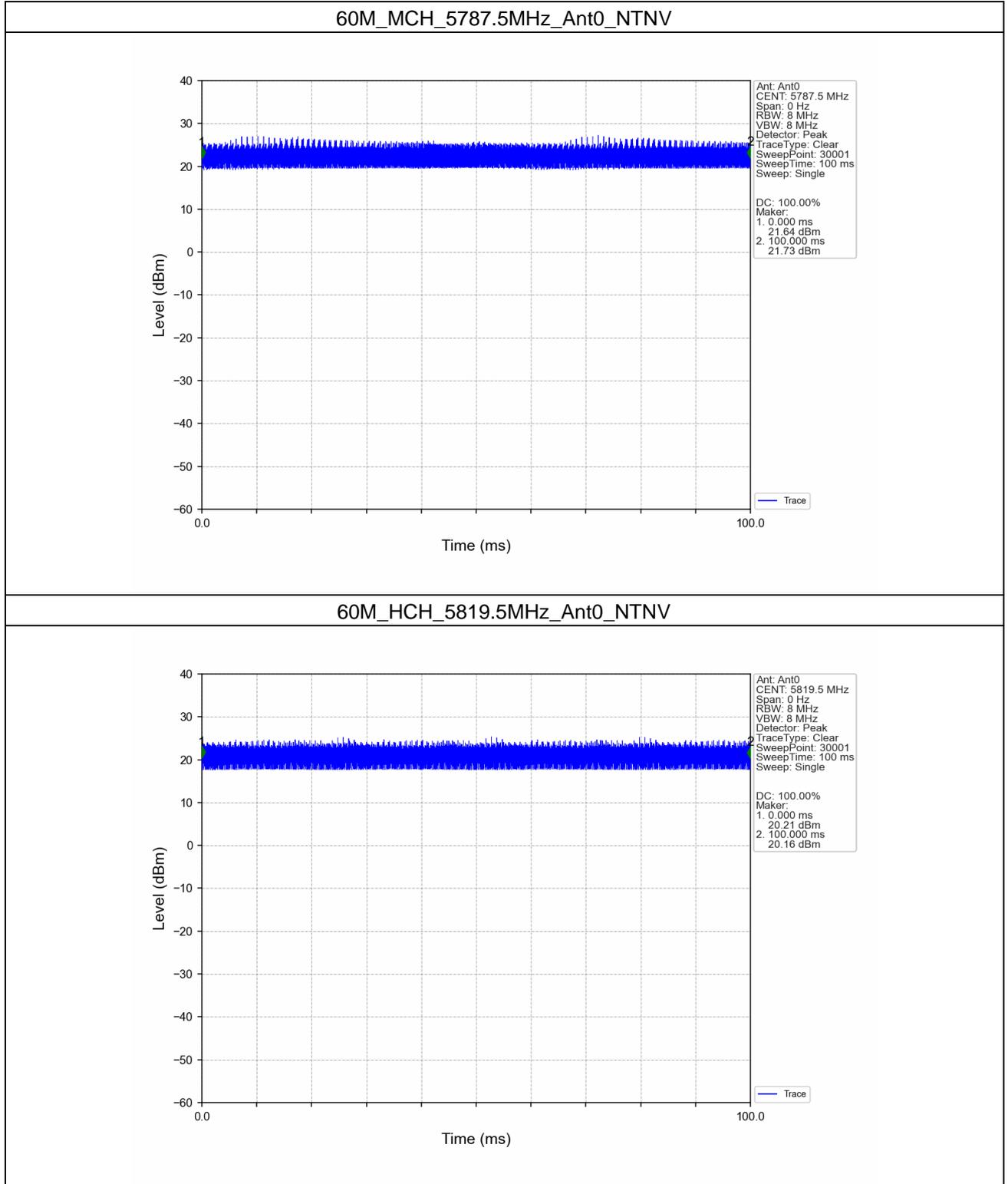
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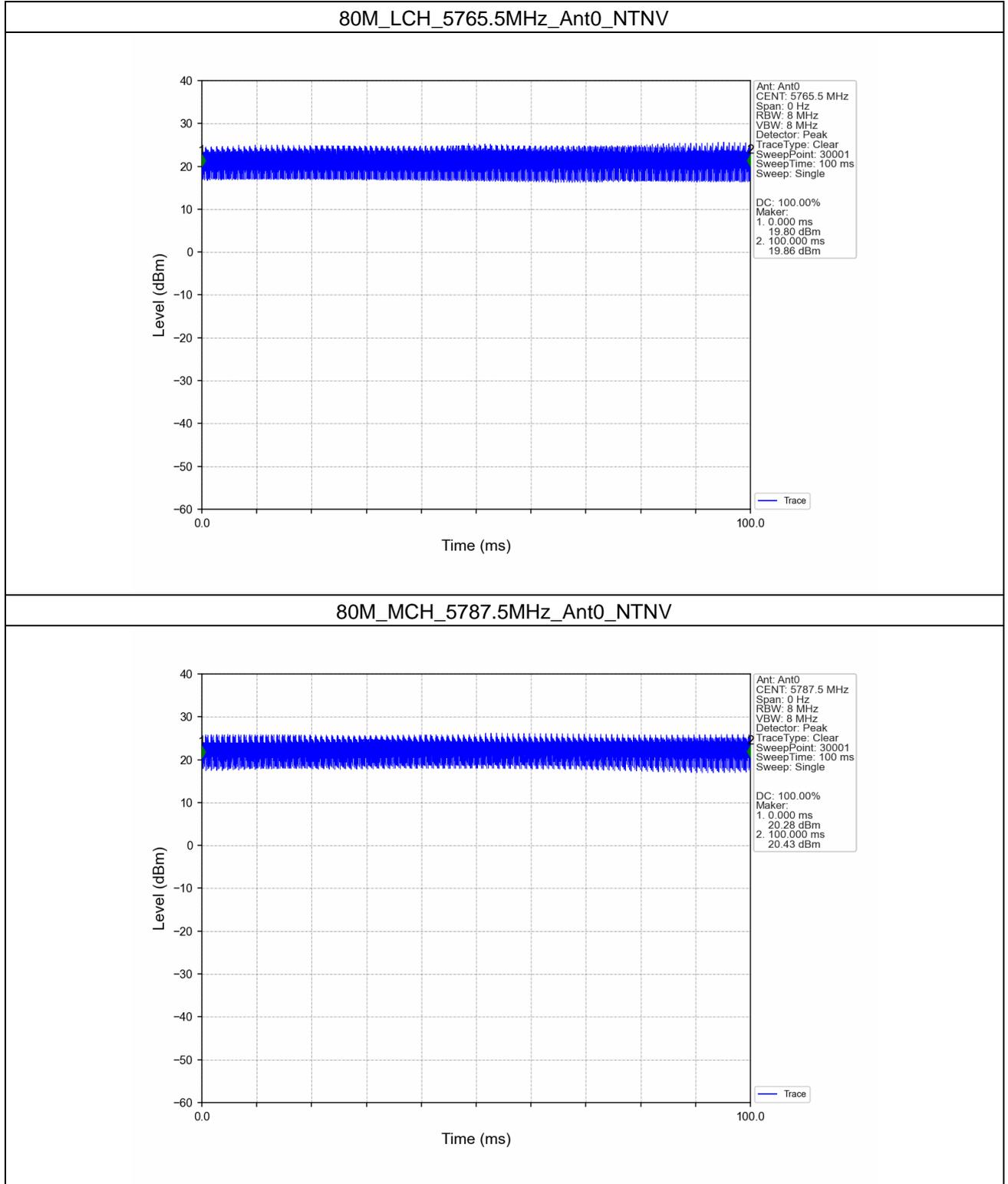
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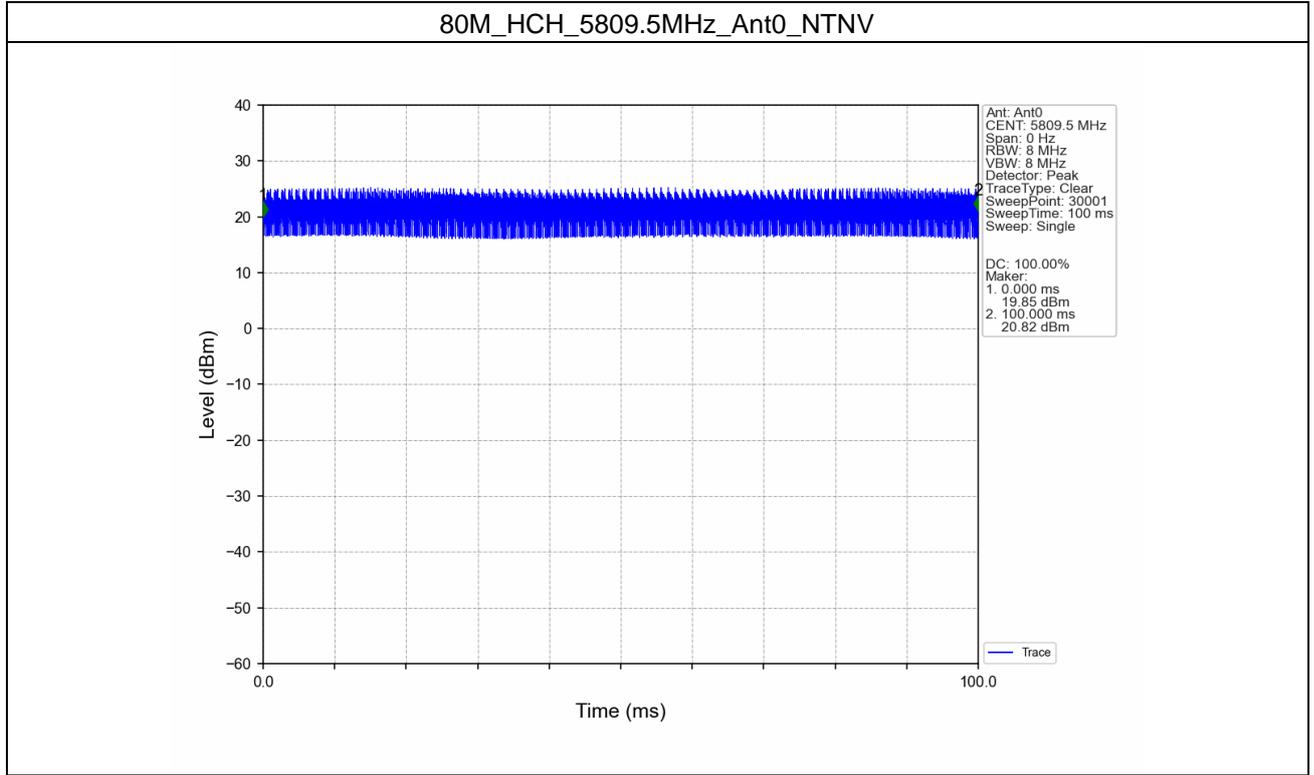
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5730.5	0	9.515	/	Pass
		5787.5	0	9.944	/	Pass
		5844.5	0	10.617	/	Pass
20M	MIMO	5735.5	0	18.095	/	Pass
		5787.5	0	18.191	/	Pass
		5839.5	0	18.013	/	Pass
40M	MIMO	5745.5	0	32.406	/	Pass
		5787.5	0	32.241	/	Pass
		5829.5	0	32.360	/	Pass
60M	MIMO	5755.5	0	53.734	/	Pass
		5787.5	0	52.511	/	Pass
		5819.5	0	52.473	/	Pass
80M	MIMO	5765.5	0	62.855	/	Pass
		5787.5	0	62.671	/	Pass
		5809.5	0	62.454	/	Pass



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2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
10M	MIMO	5730.5	0	9.063	>=0.5	Pass
		5787.5	0	9.067	>=0.5	Pass
		5844.5	0	9.073	>=0.5	Pass
20M	MIMO	5735.5	0	17.530	>=0.5	Pass
		5787.5	0	17.711	>=0.5	Pass
		5839.5	0	17.742	>=0.5	Pass
40M	MIMO	5745.5	0	19.724	>=0.5	Pass
		5787.5	0	20.285	>=0.5	Pass
		5829.5	0	20.727	>=0.5	Pass
60M	MIMO	5755.5	0	39.534	>=0.5	Pass
		5787.5	0	41.377	>=0.5	Pass
		5819.5	0	42.784	>=0.5	Pass
80M	MIMO	5765.5	0	37.486	>=0.5	Pass
		5787.5	0	37.354	>=0.5	Pass
		5809.5	0	37.703	>=0.5	Pass

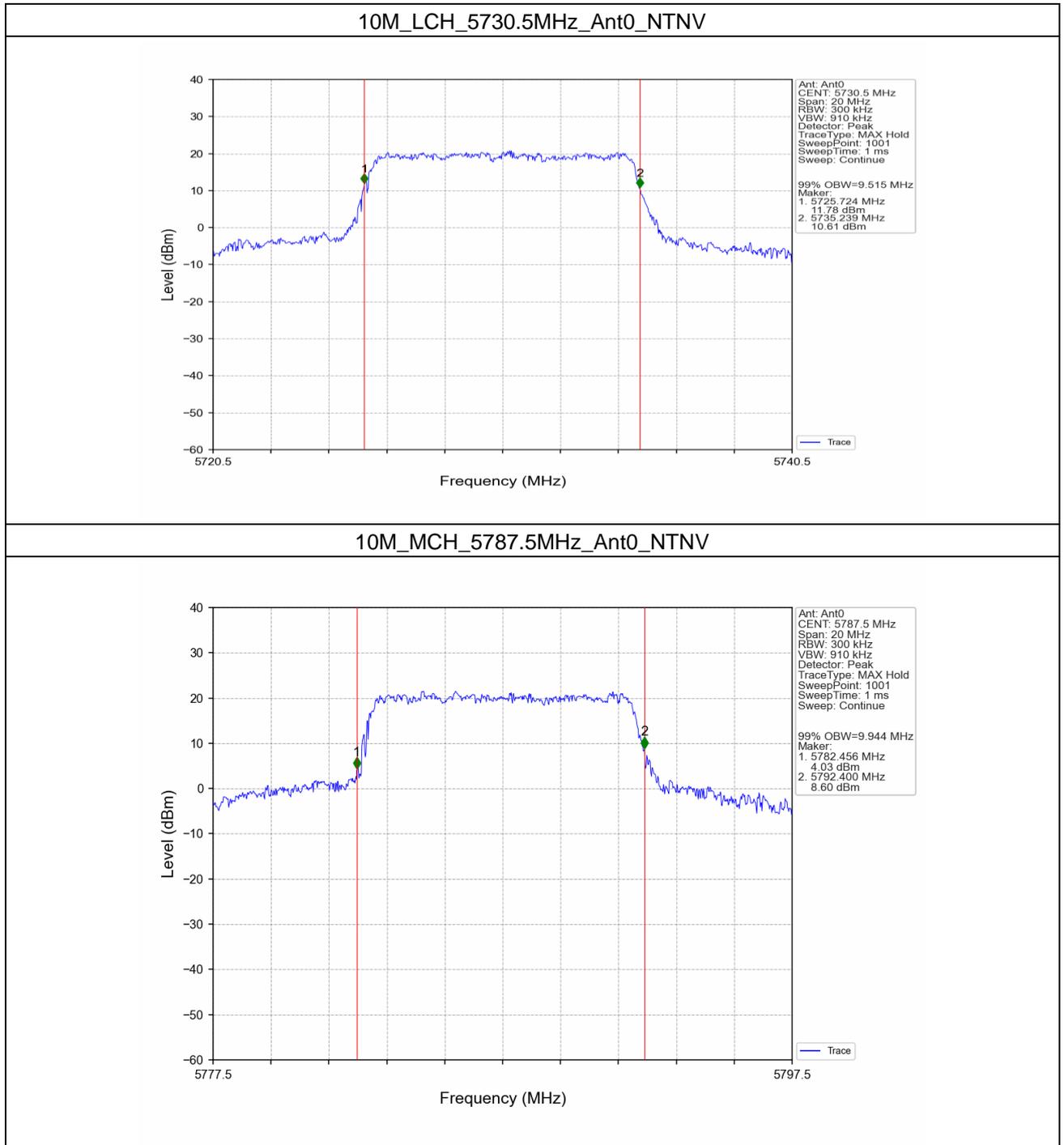


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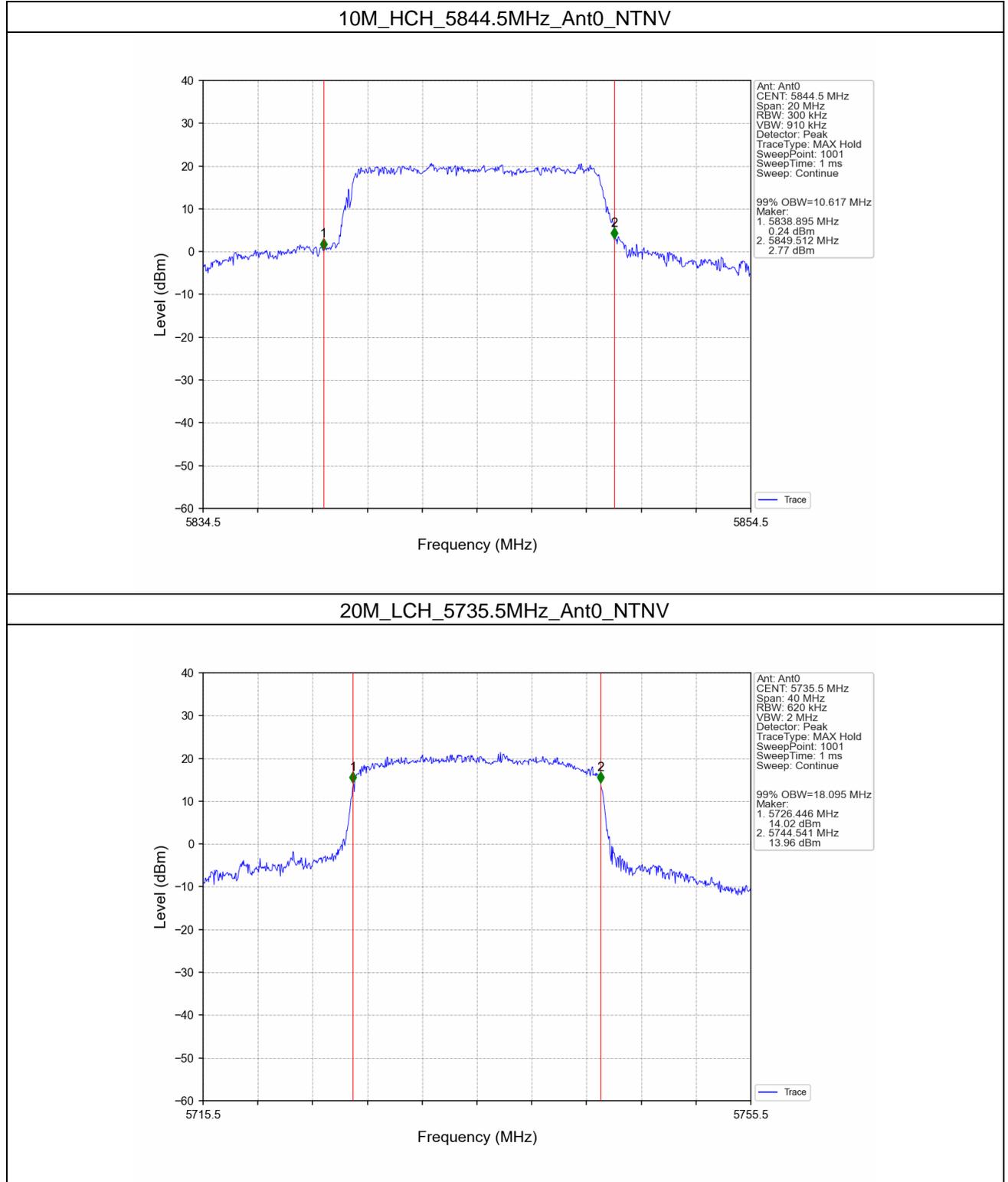
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2.2 Test Graph

2.2.1 OBW

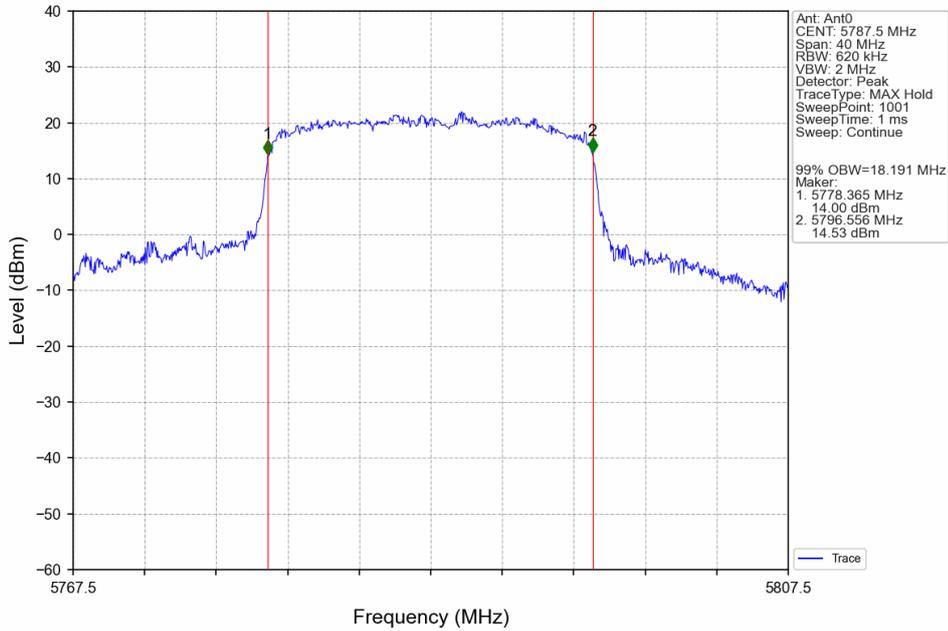


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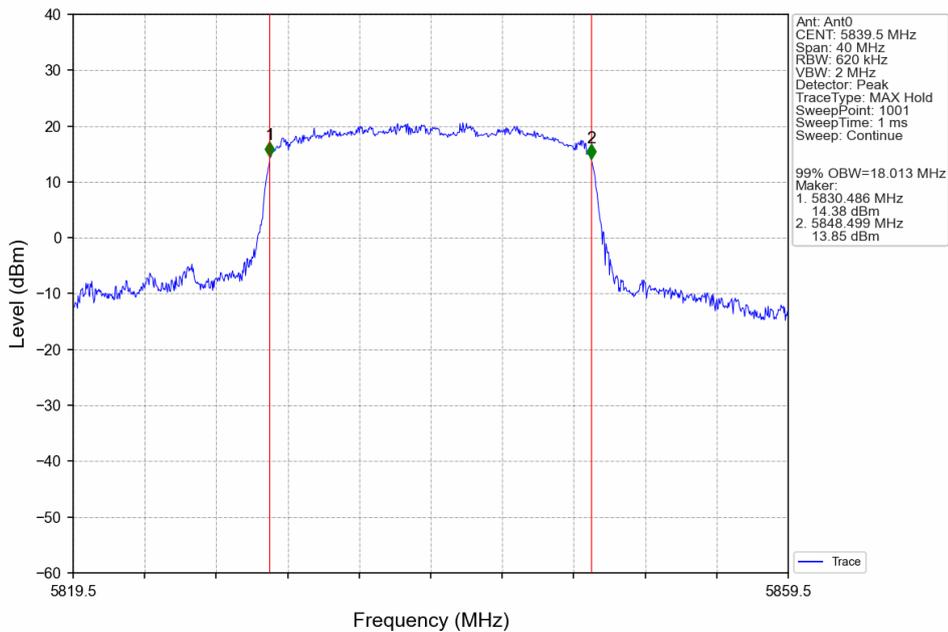


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20M_MCH_5787.5MHz_Ant0_NTNV

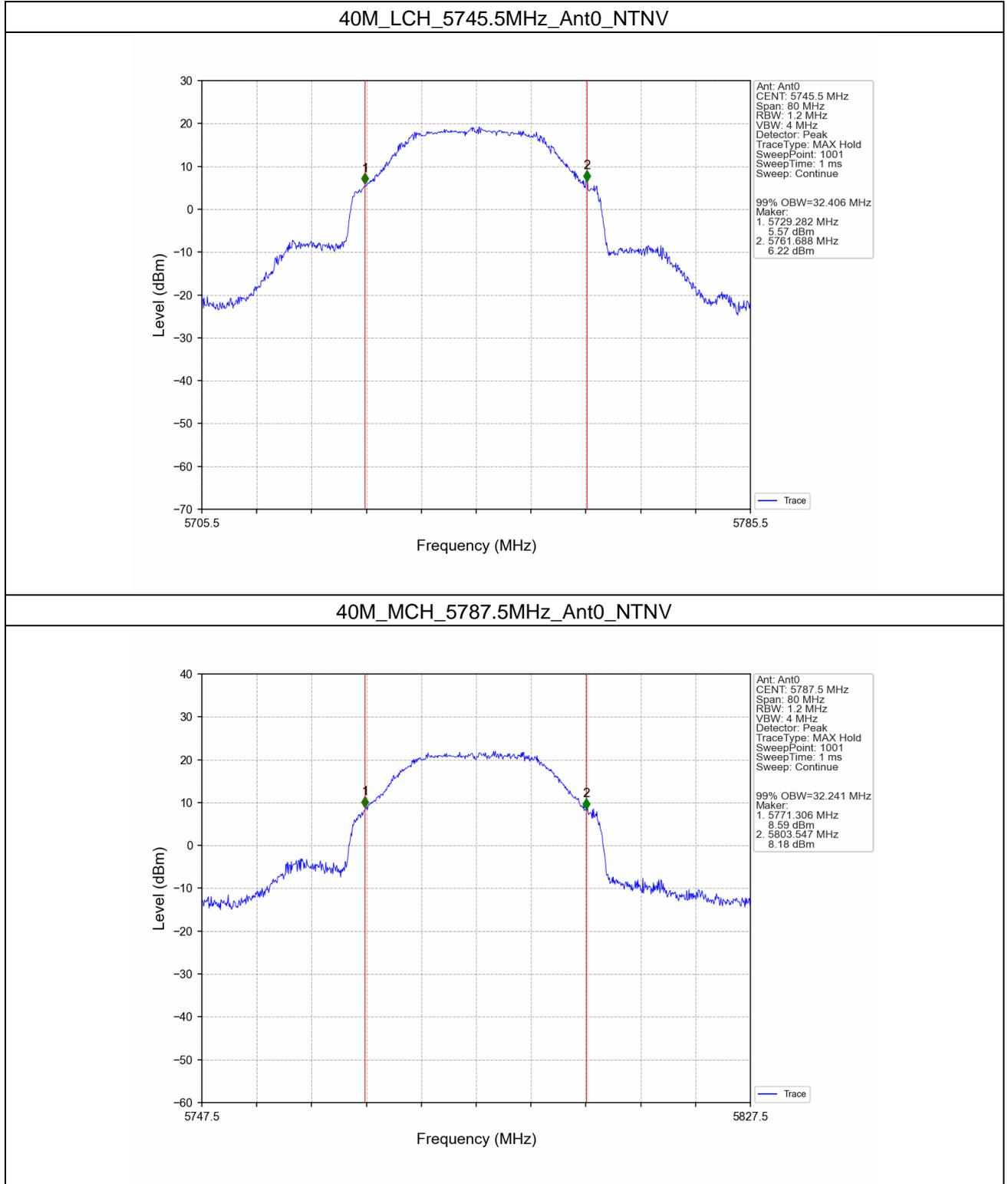


20M_HCH_5839.5MHz_Ant0_NTNV



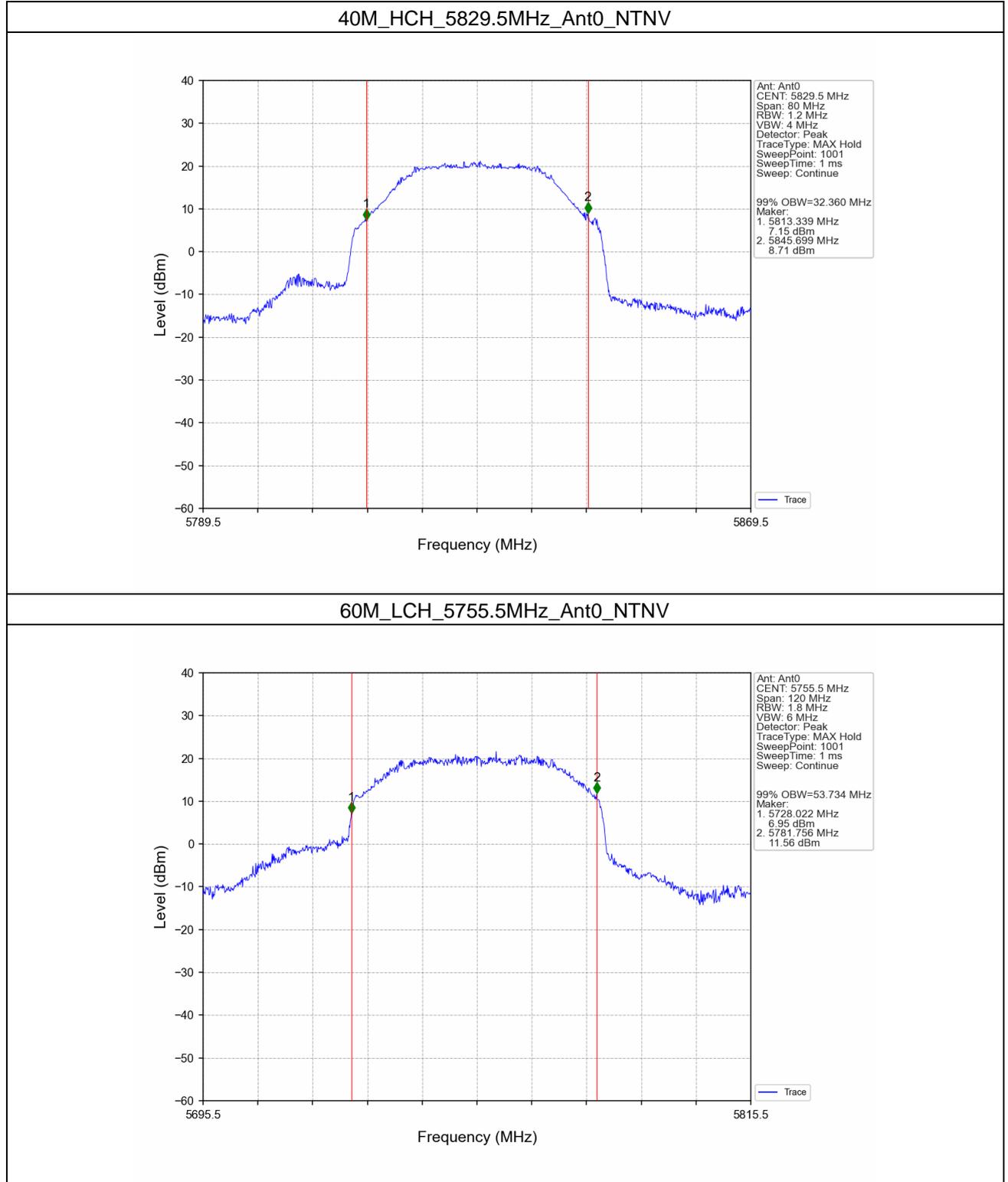
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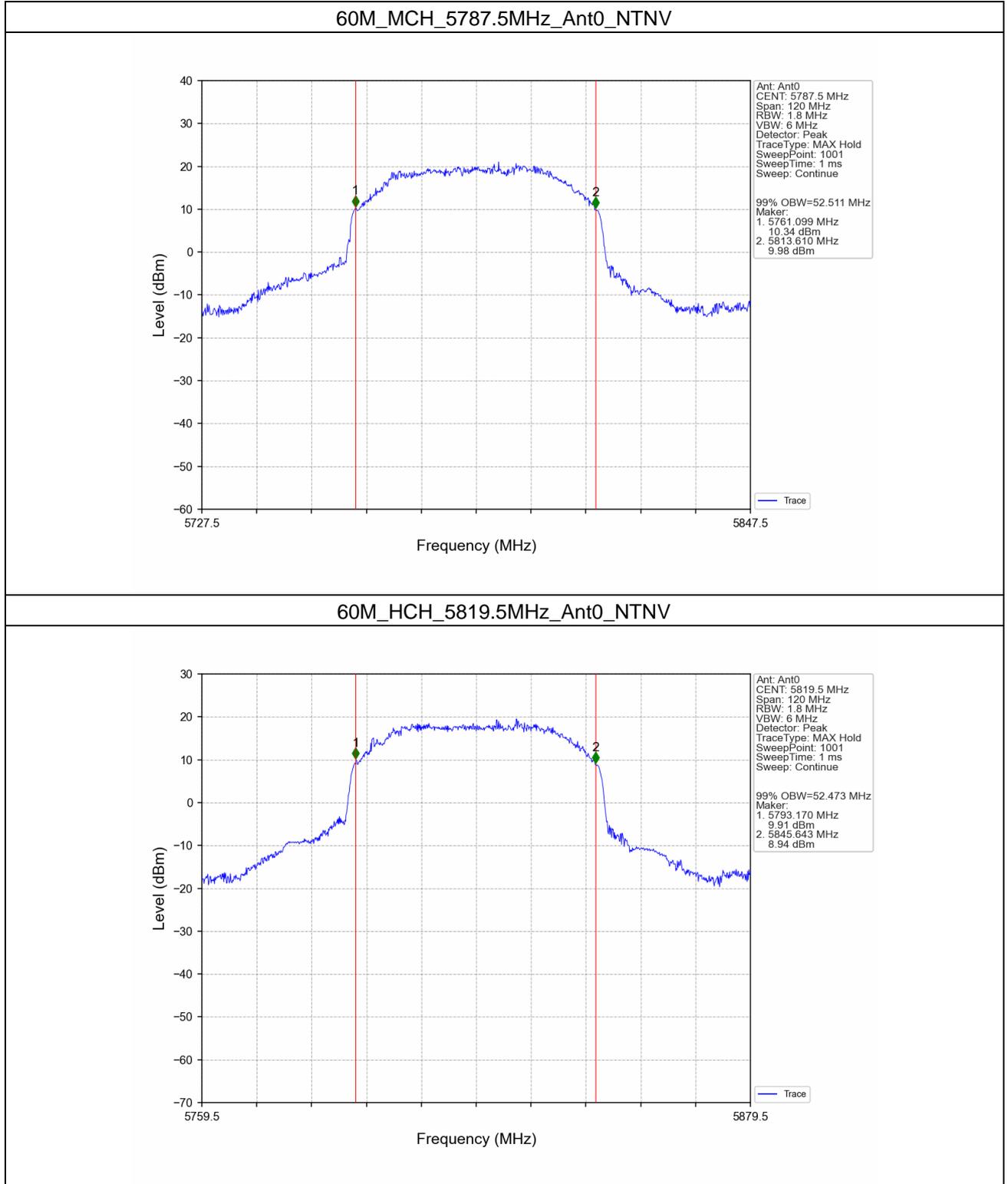


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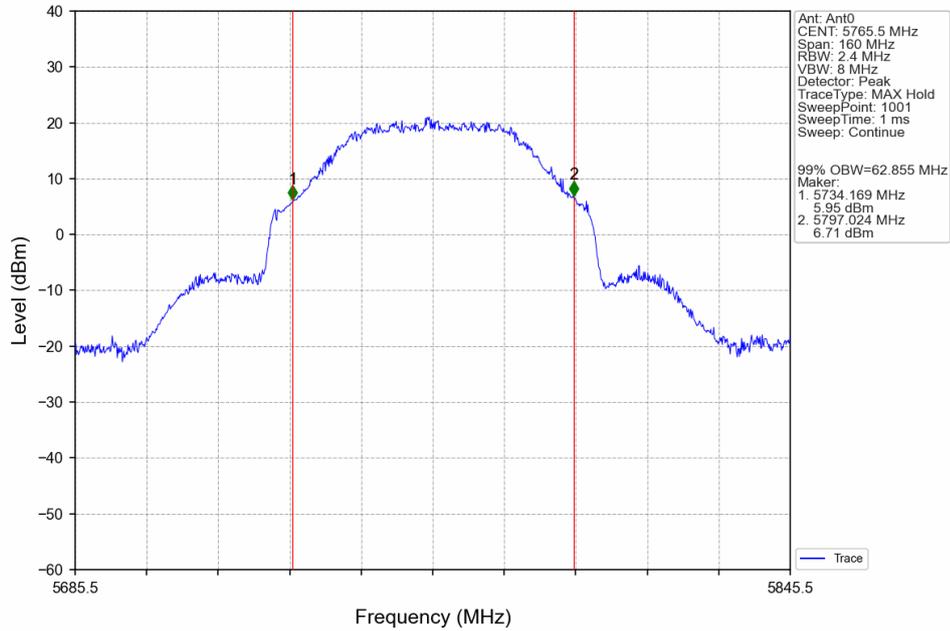


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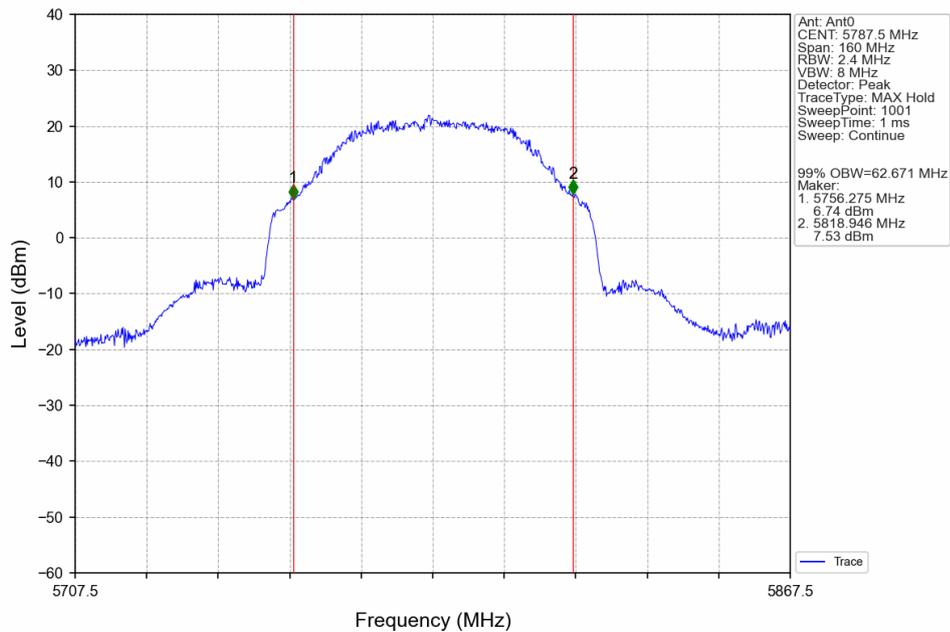


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80M_LCH_5765.5MHz_Ant0_NTNV

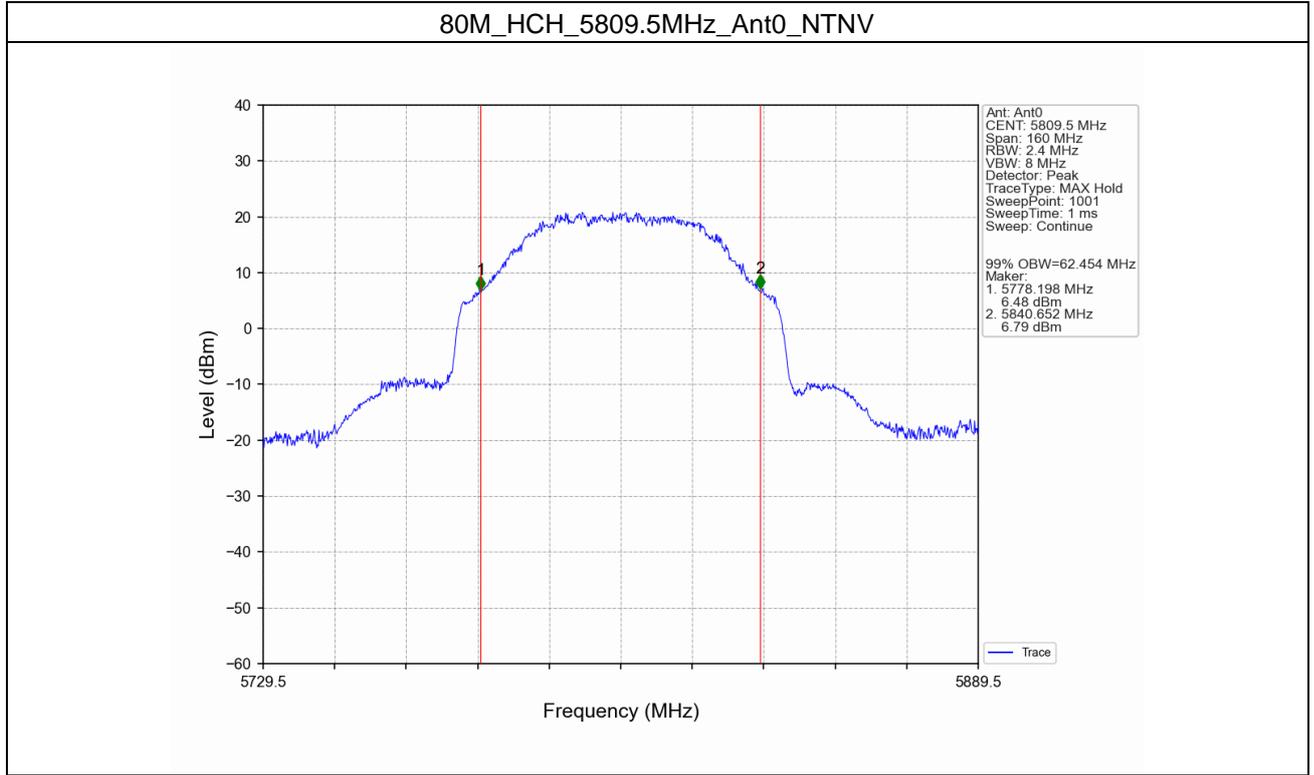


80M_MCH_5787.5MHz_Ant0_NTNV



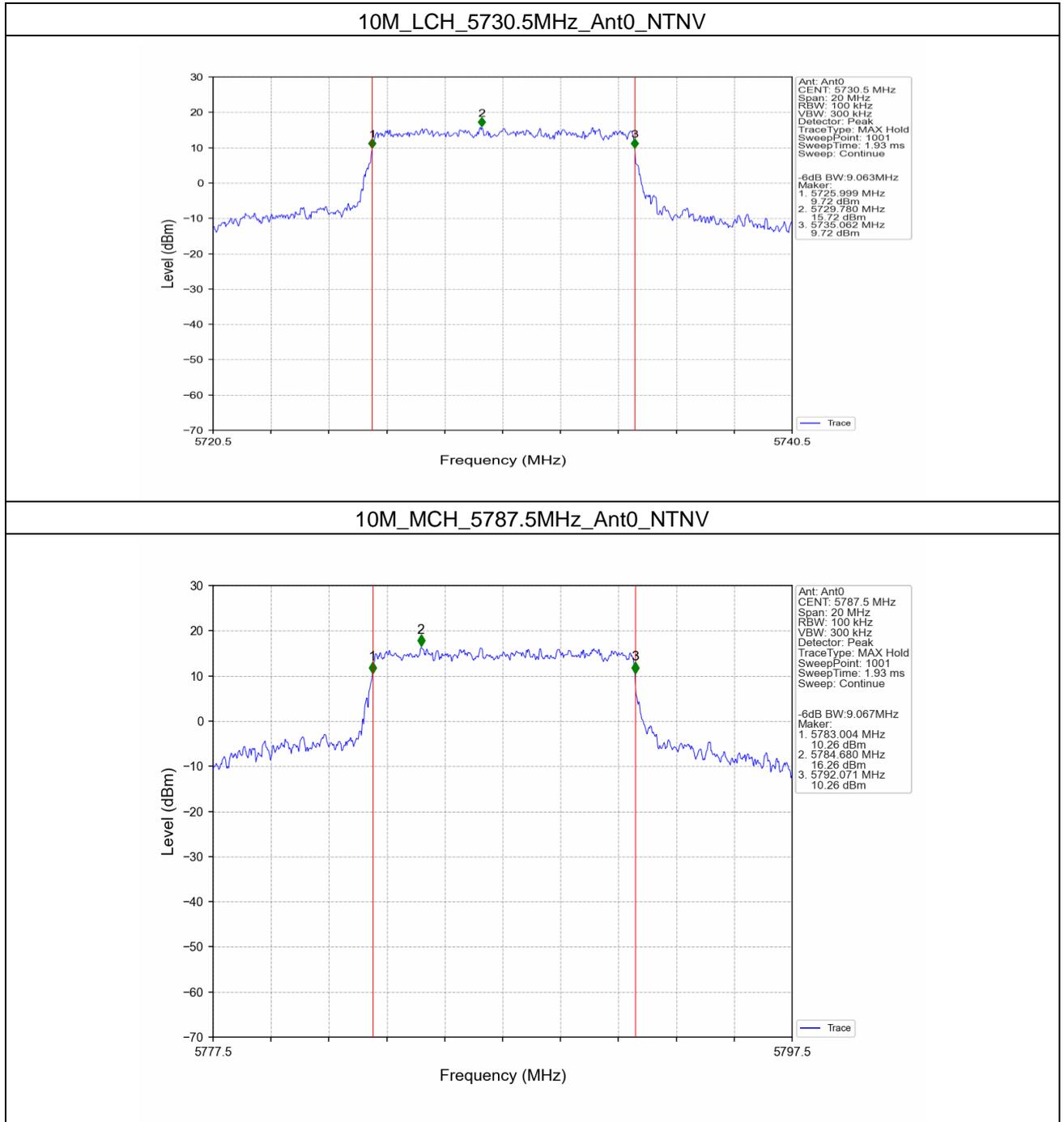
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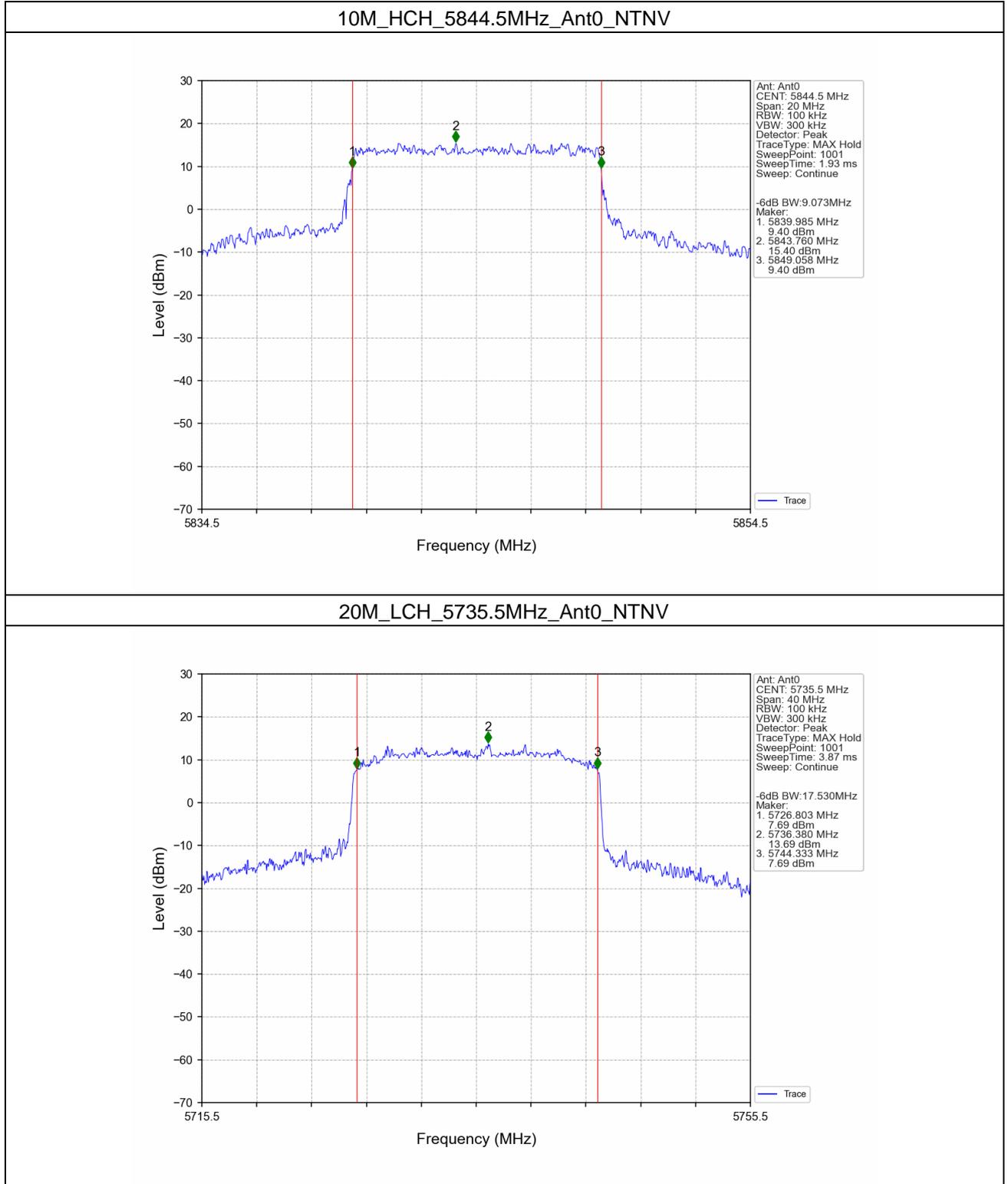
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2.2.2 6dB BW



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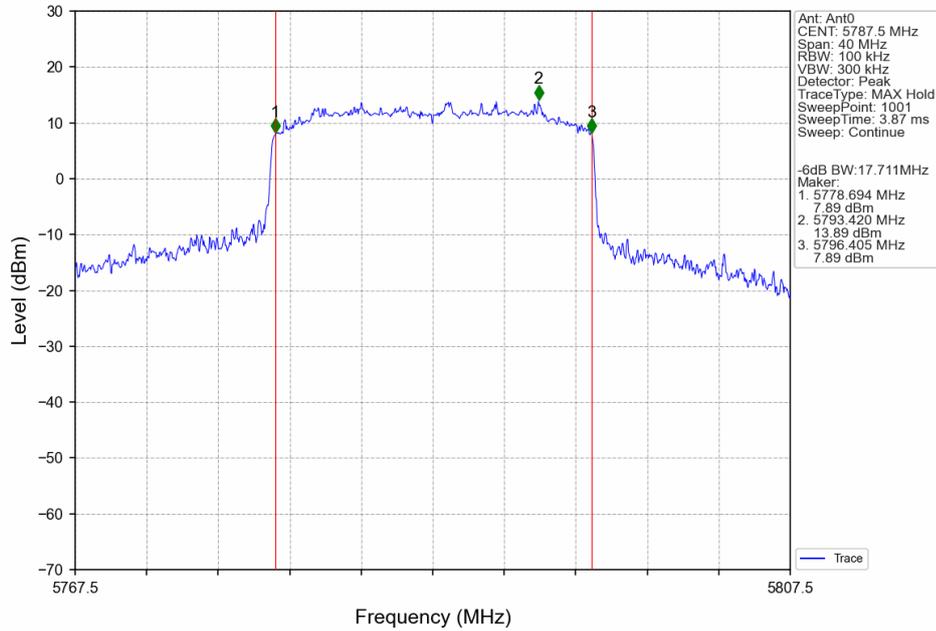
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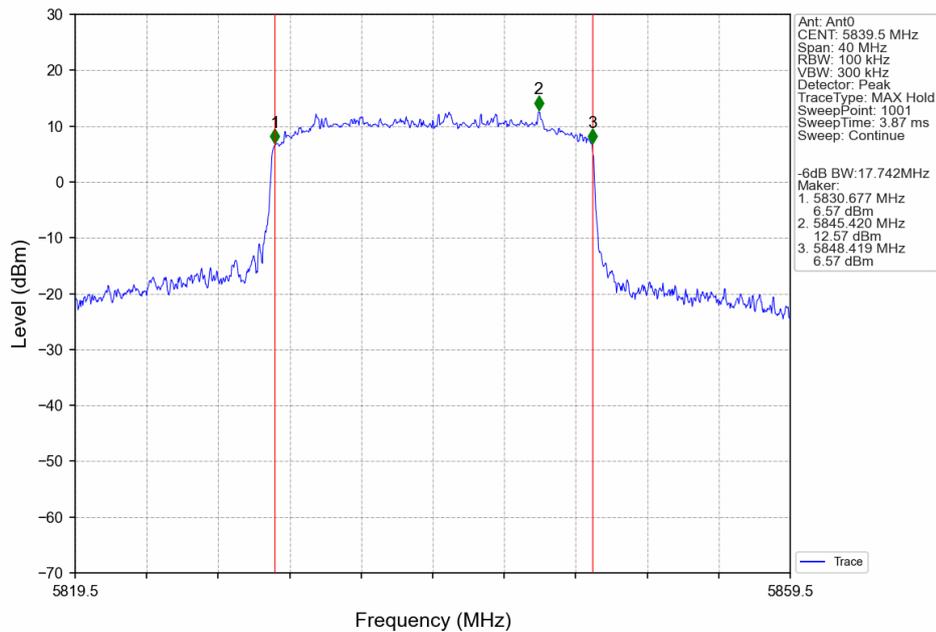
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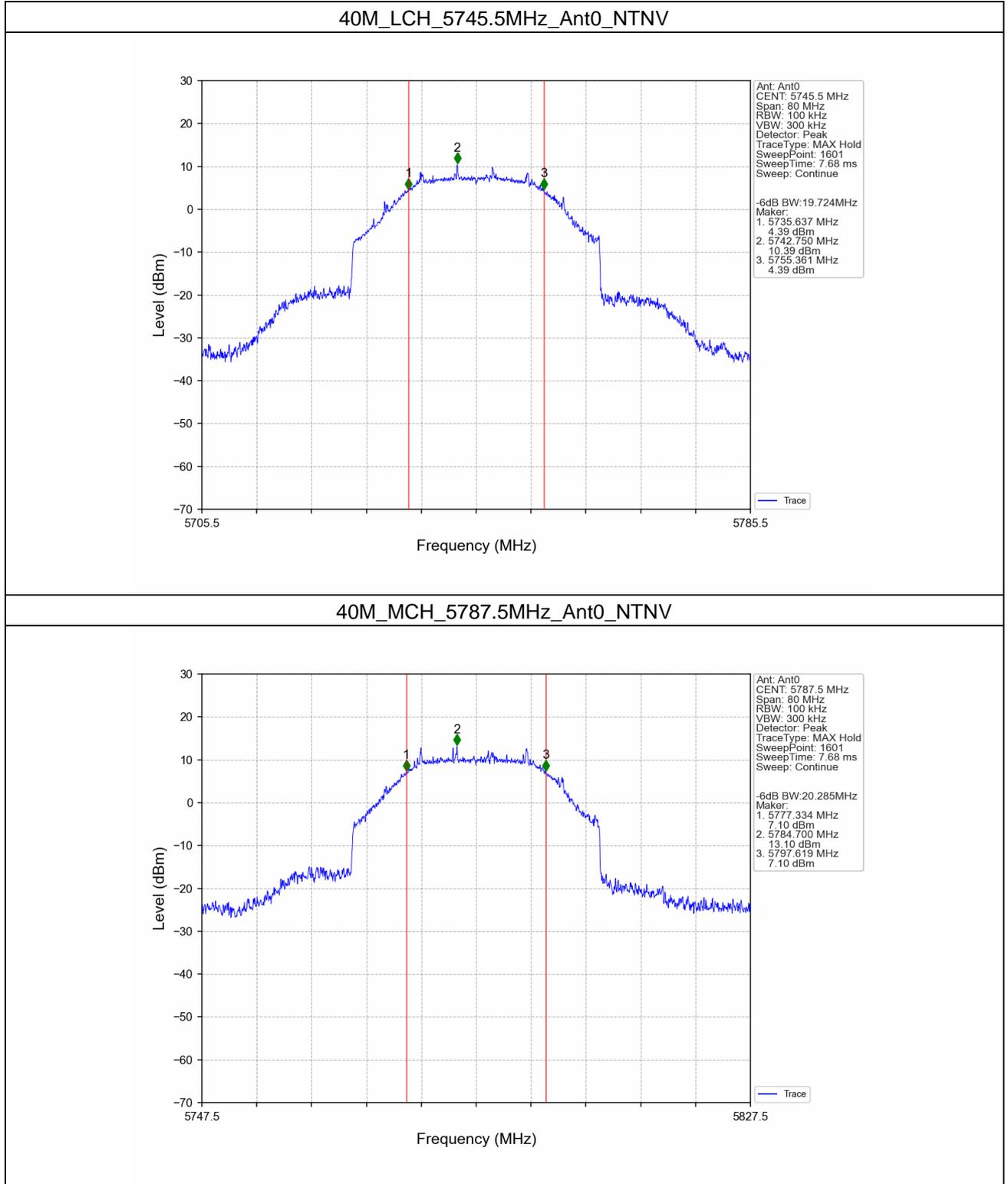


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