

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result for FCC

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5180	0.39	-1.92	/	<=11	Pass
		5200	0.47	-1.87	/	<=11	Pass
		5240	0.56	-2.37	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-1.01	-2.99	0.99	<=11	Pass
		5200	-0.85	-2.98	1.09	<=11	Pass
		5240	-1.00	-3.55	0.86	<=11	Pass
802.11n (HT40)	MIMO	5190	-3.39	-6.45	-1.81	<=11	Pass
		5230	-3.37	-6.50	-1.84	<=11	Pass
802.11ac (VHT20)	MIMO	5180	-0.97	-2.97	1.11	<=11	Pass
		5200	-0.96	-3.08	1.05	<=11	Pass
		5240	-0.97	-3.50	0.91	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-3.48	-6.61	-1.80	<=11	Pass
		5230	-3.47	-6.61	-1.79	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-6.70	-9.58	-5.18	<=11	Pass

Note1: Antenna Gain: Ant1: 2.30dBi; Ant2: 0.78dBi;

4.1.1 Test Result for IC

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			EIRP PSD (dBm/MHz)			Limit	Verdict
			Ant1	Ant2	MIMO	Ant1	Ant2	MIMO		
802.11a	SISO	5180	0.39	-1.92	/	2.69	-1.14	/	<=10	Pass
		5200	0.47	-1.87	/	2.77	-1.09	/	<=10	Pass
		5240	0.56	-2.37	/	2.86	-1.59	/	<=10	Pass
802.11n (HT20)	MIMO	5180	-1.01	-2.99	0.99	1.29	-2.21	2.89	<=10	Pass
		5200	-0.85	-2.98	1.09	1.45	-2.20	3.01	<=10	Pass
		5240	-1.00	-3.55	0.86	1.30	-2.77	2.74	<=10	Pass
802.11n (HT40)	MIMO	5190	-3.39	-6.45	-1.81	-1.09	-5.67	0.21	<=10	Pass
		5230	-3.37	-6.50	-1.84	-1.07	-5.72	0.21	<=10	Pass
802.11ac (VHT20)	MIMO	5180	-0.97	-2.97	1.11	1.33	-2.19	2.93	<=10	Pass
		5200	-0.96	-3.08	1.05	1.34	-2.30	2.90	<=10	Pass
		5240	-0.97	-3.50	0.91	1.33	-2.72	2.77	<=10	Pass
802.11ac (VHT40)	MIMO	5190	-3.48	-6.61	-1.80	-1.18	-5.83	0.10	<=10	Pass
		5230	-3.47	-6.61	-1.79	-1.17	-5.83	0.11	<=10	Pass
802.11ac (VHT80)	MIMO	5210	-6.70	-9.58	-5.18	-4.40	-8.80	-3.05	<=10	Pass

Note1: Antenna Gain: Ant1: 2.30dBi; Ant2: 0.78dBi;

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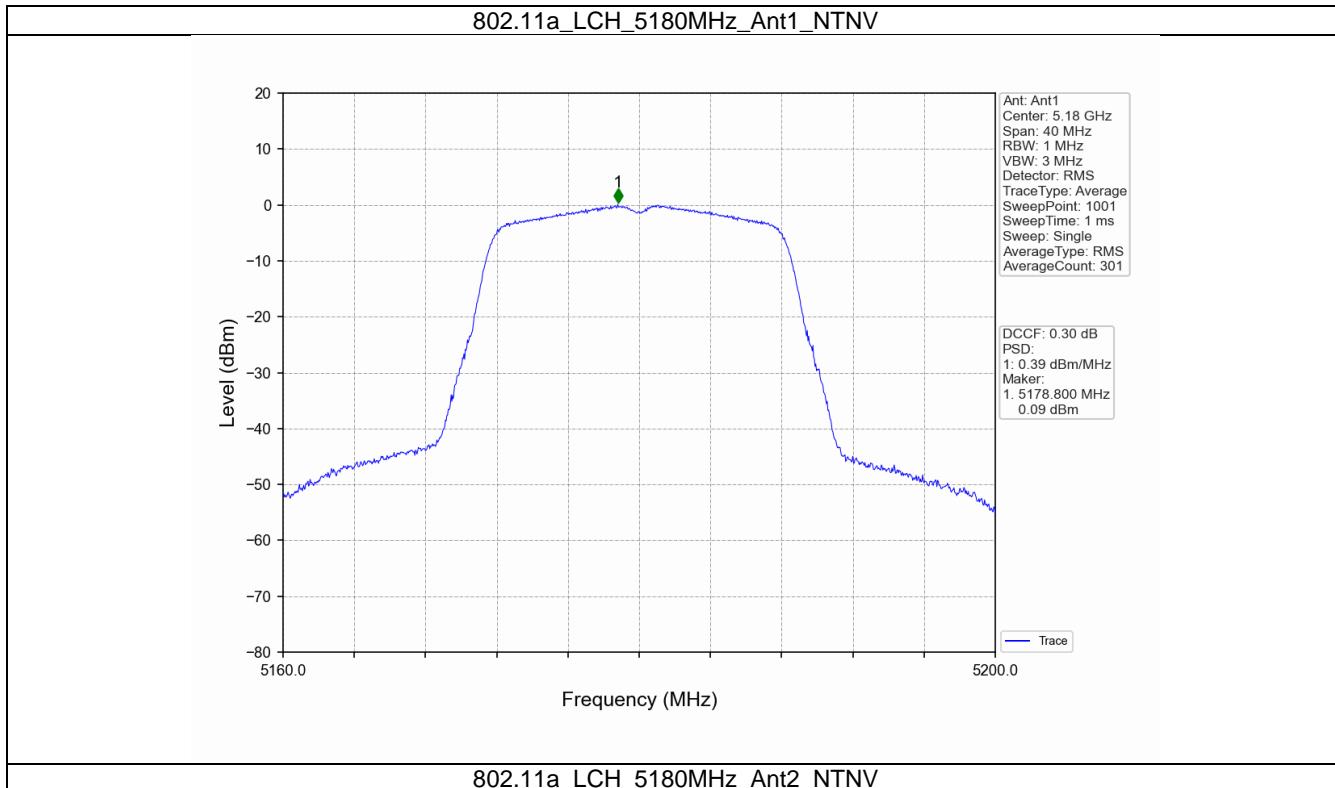
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4.1.2 Test Graph



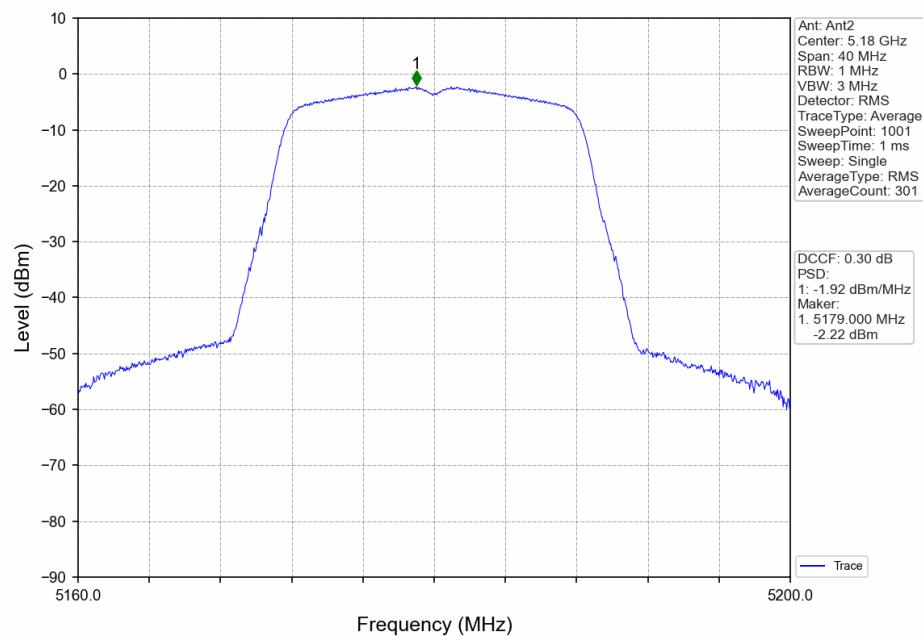
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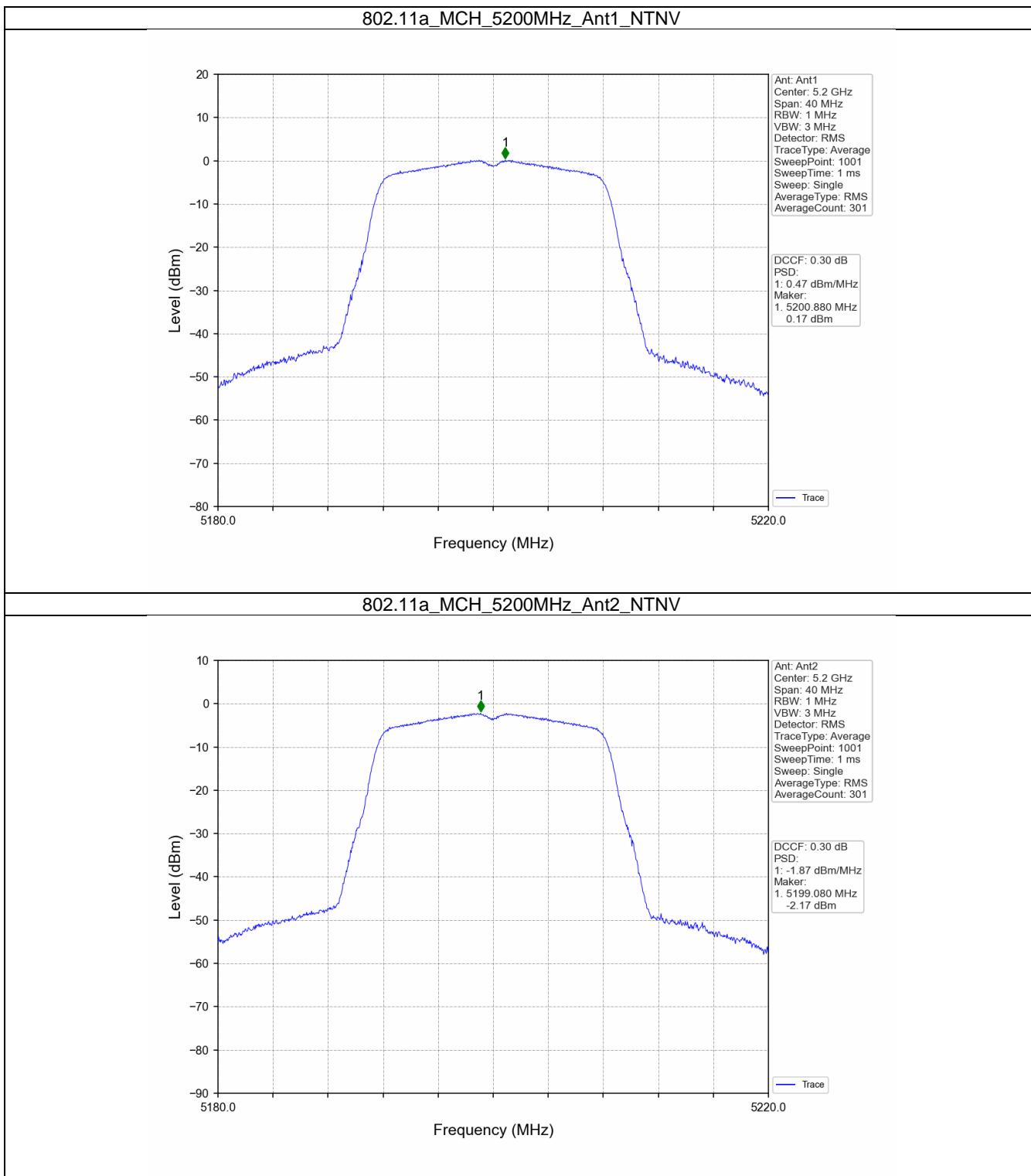
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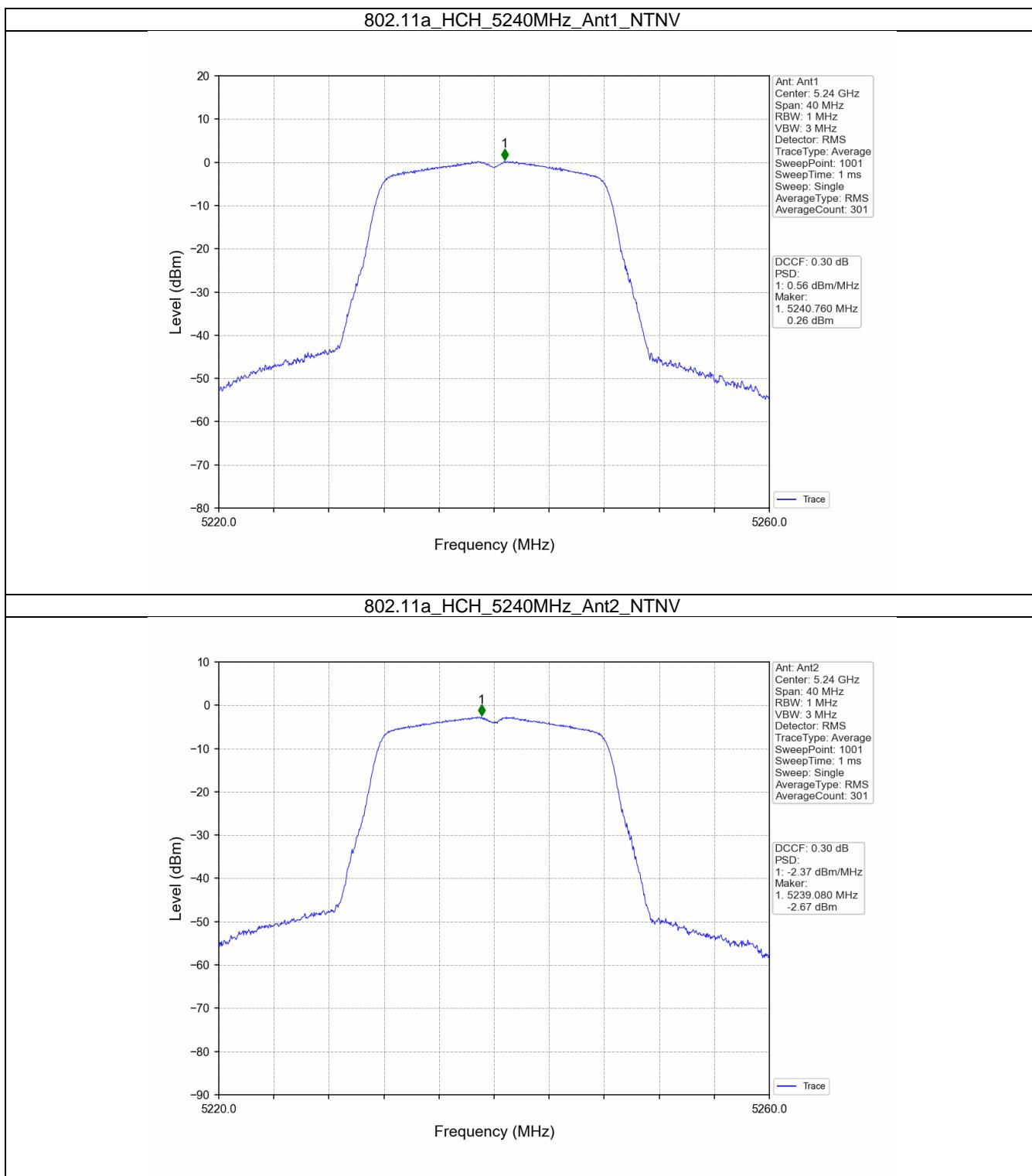
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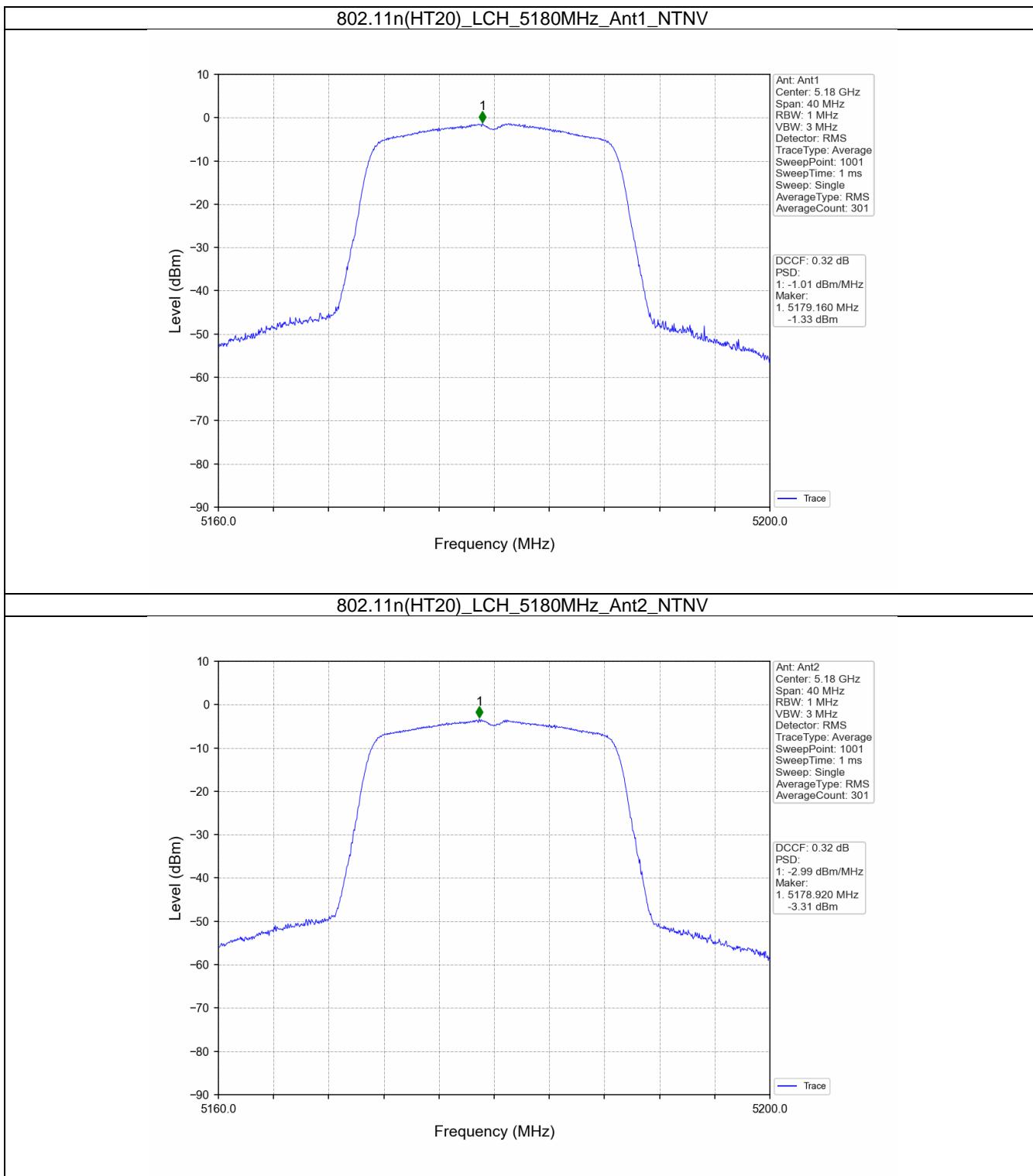




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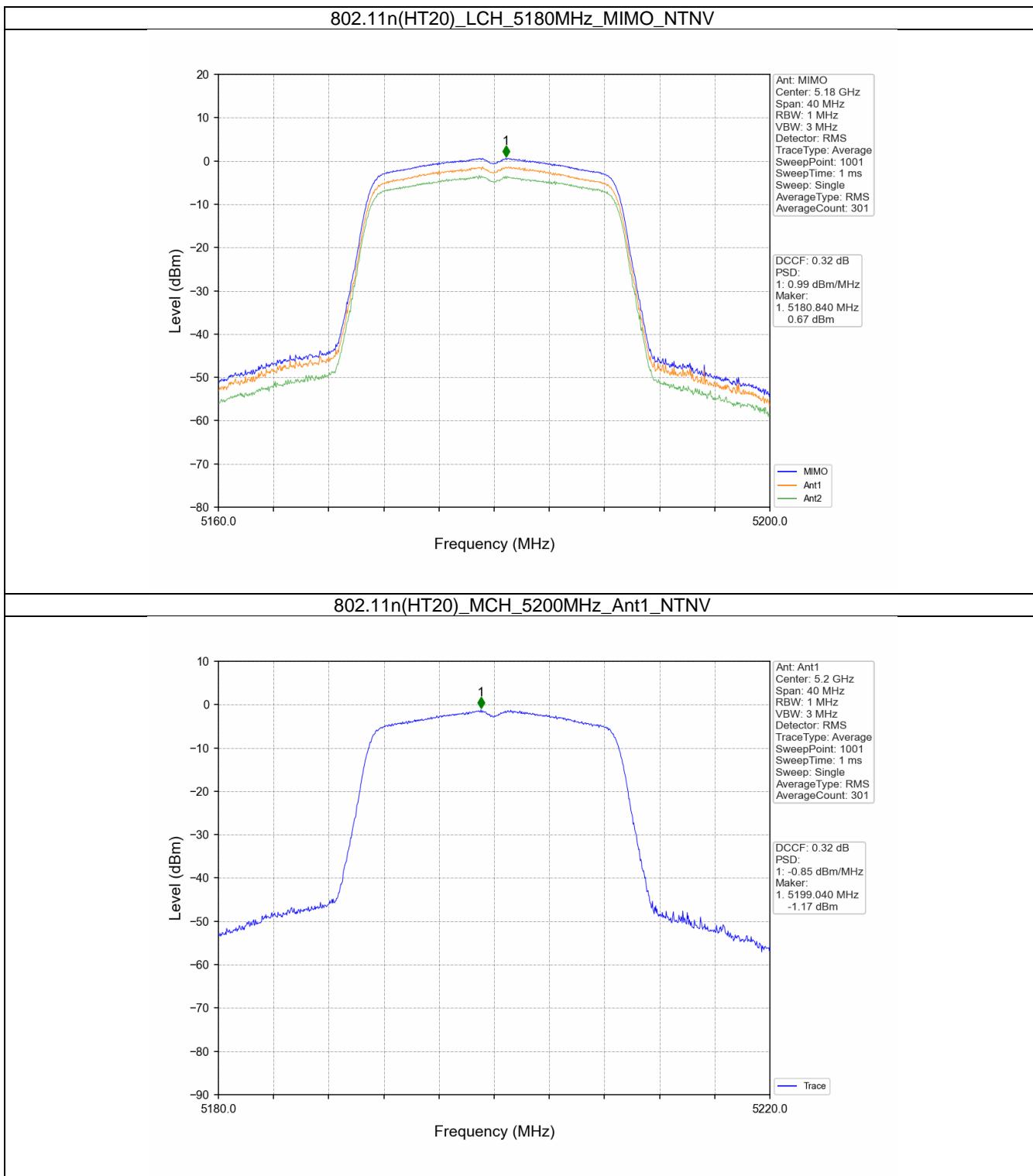
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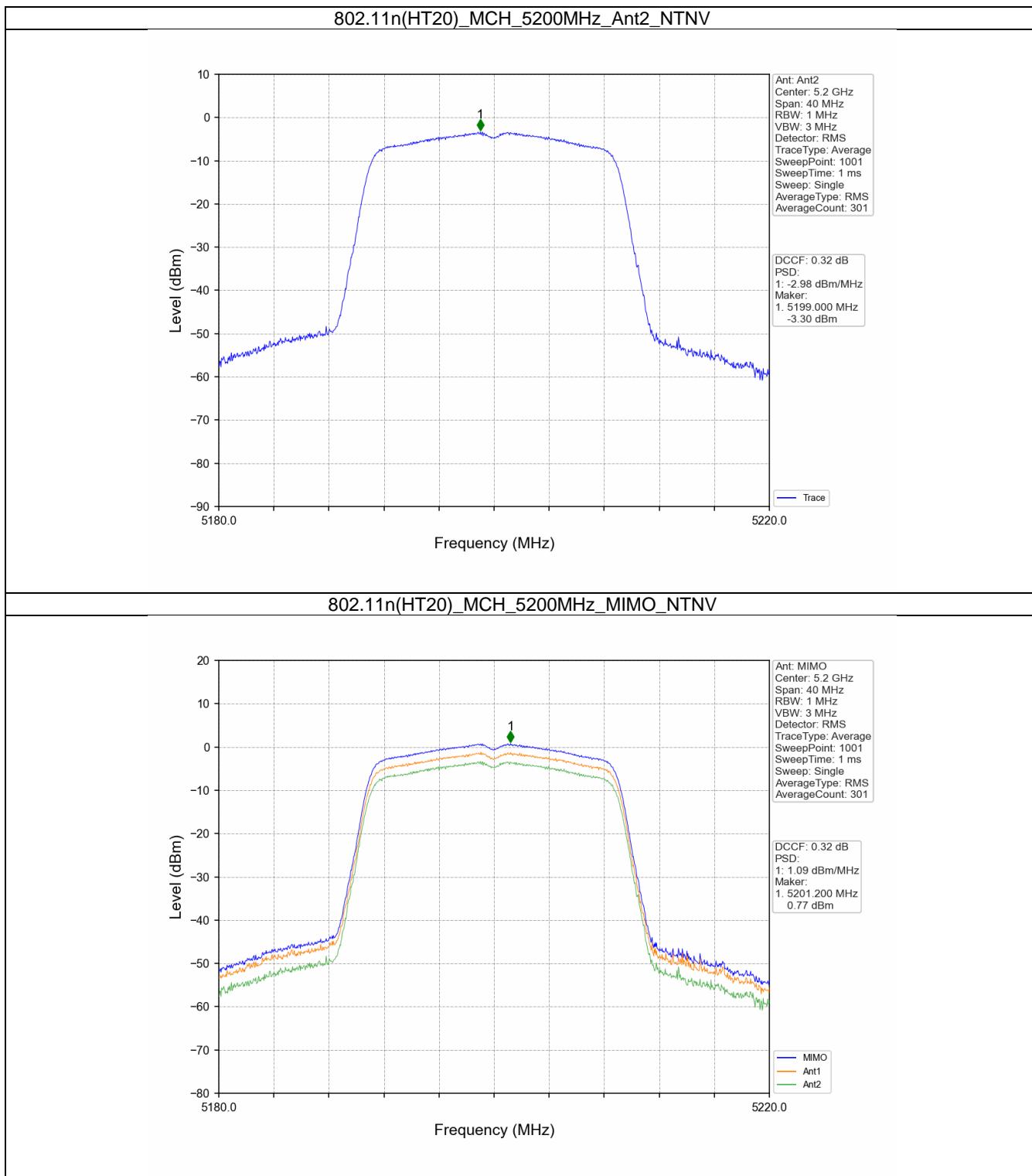
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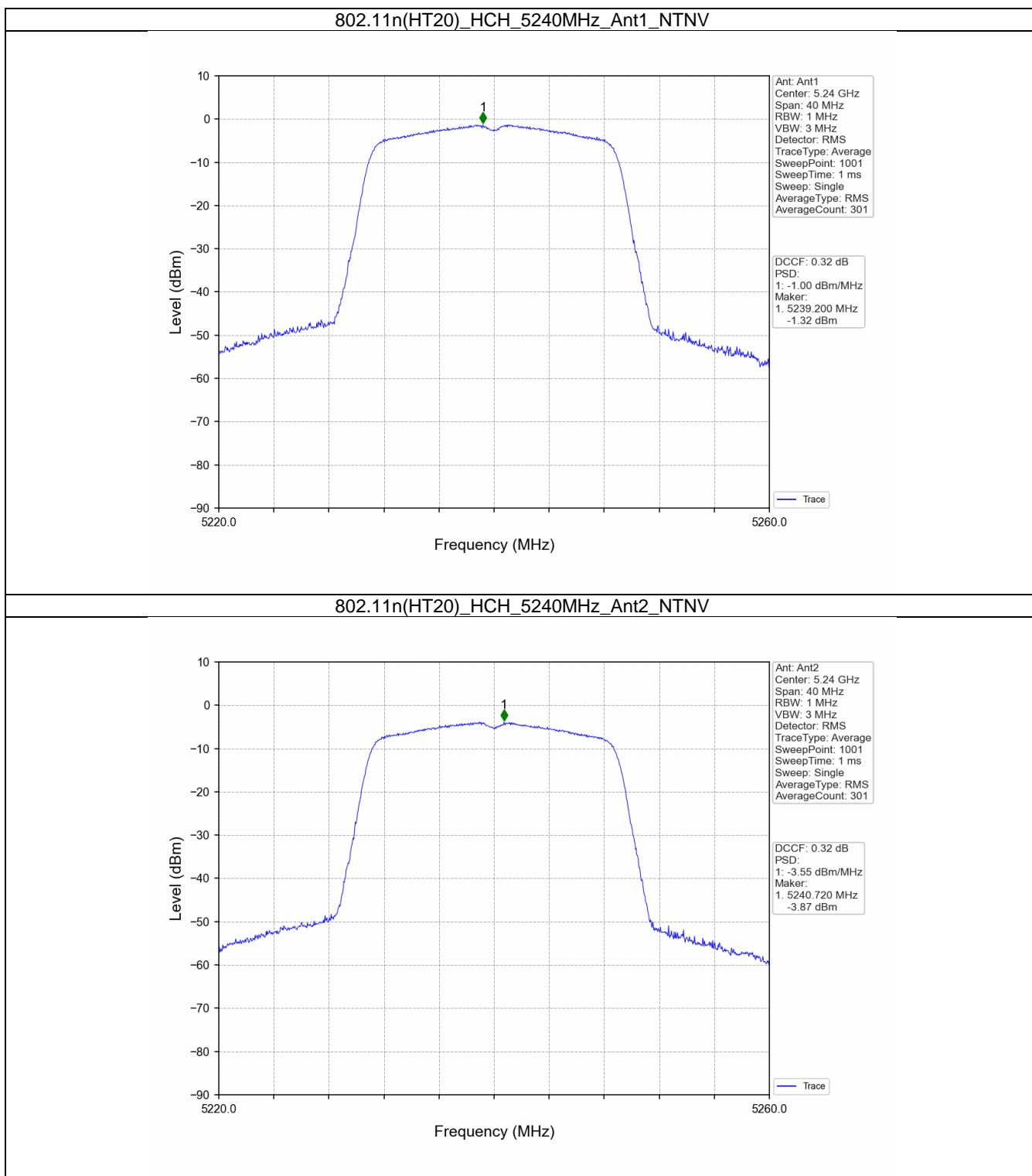
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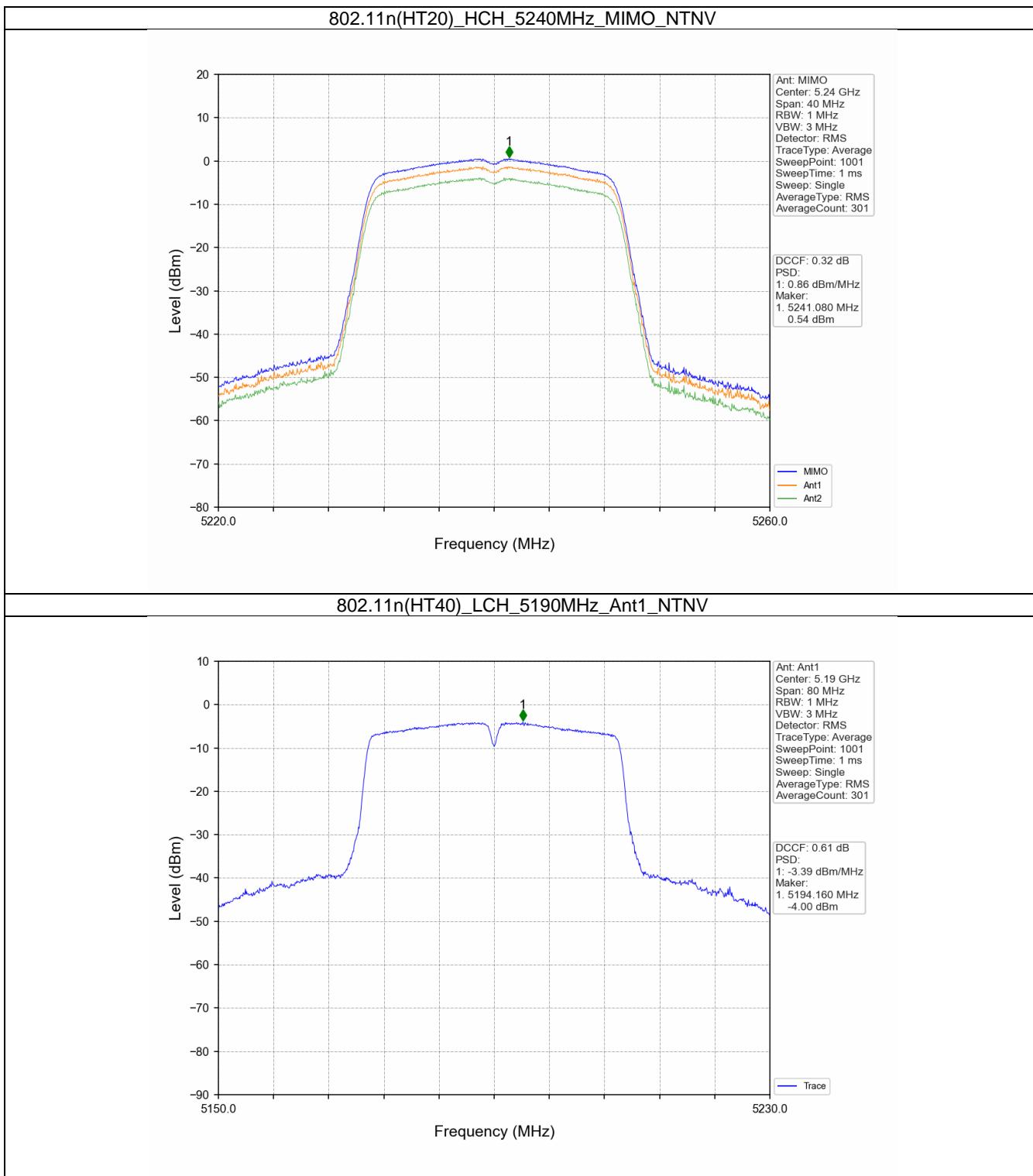
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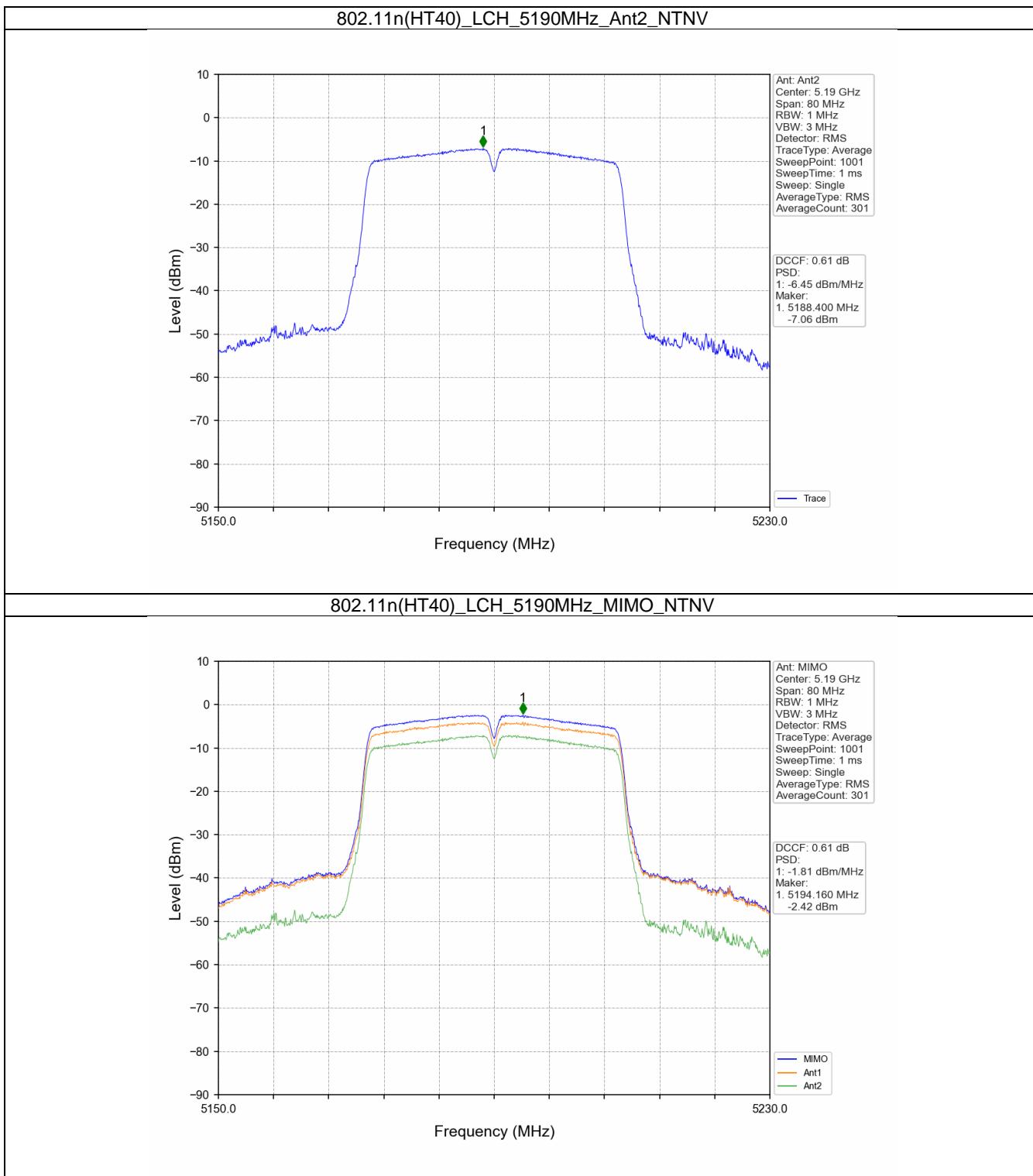
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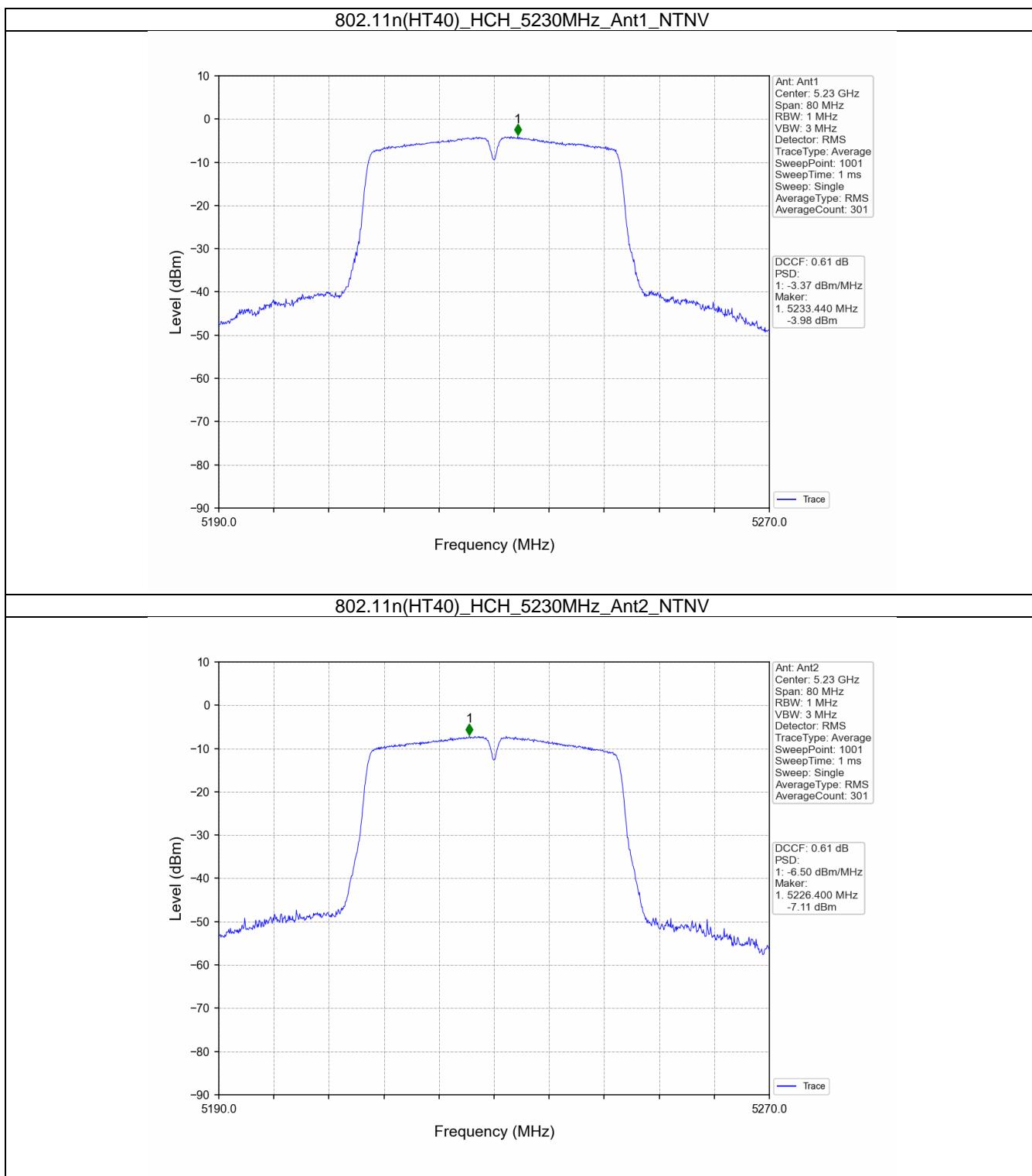
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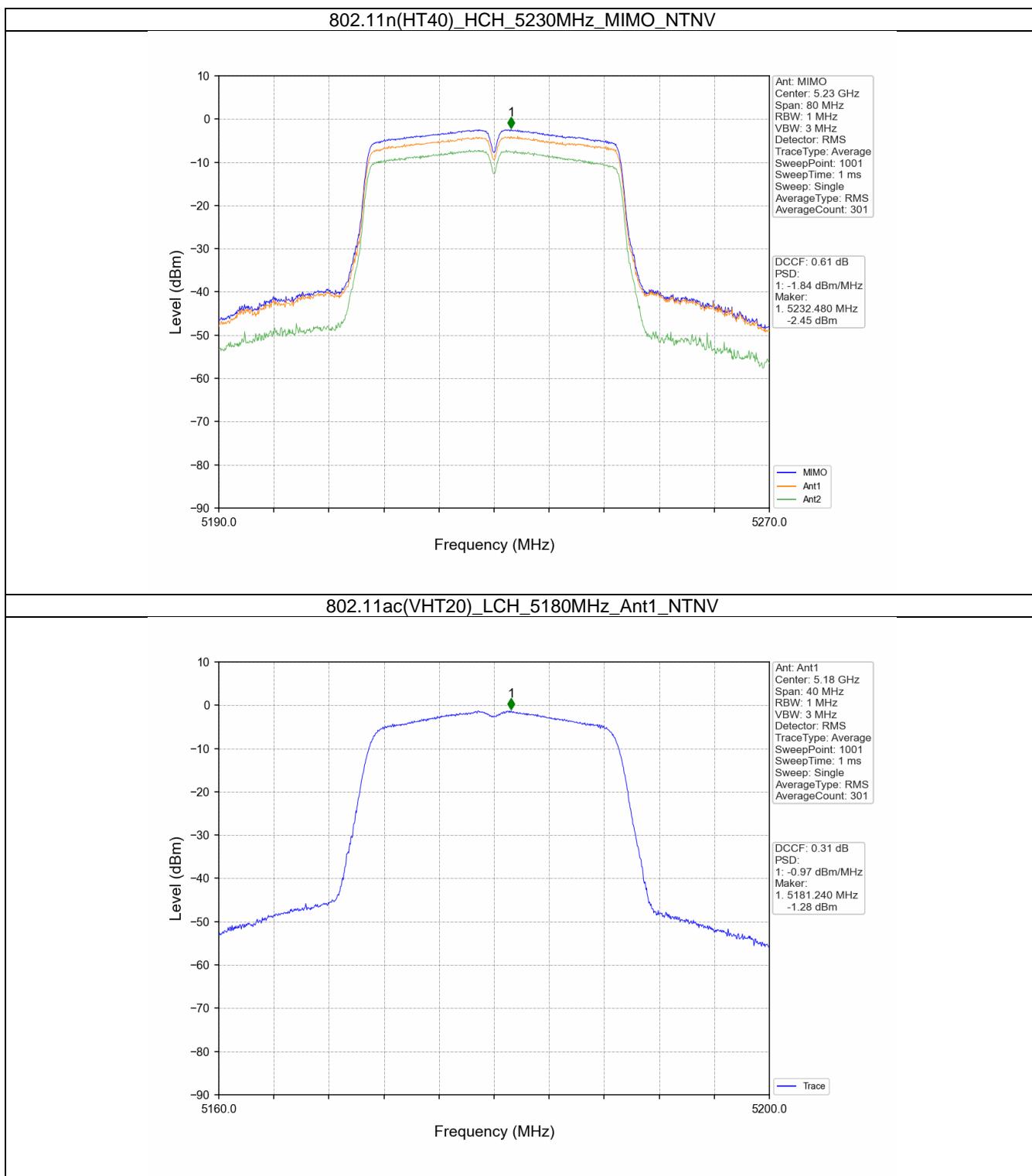
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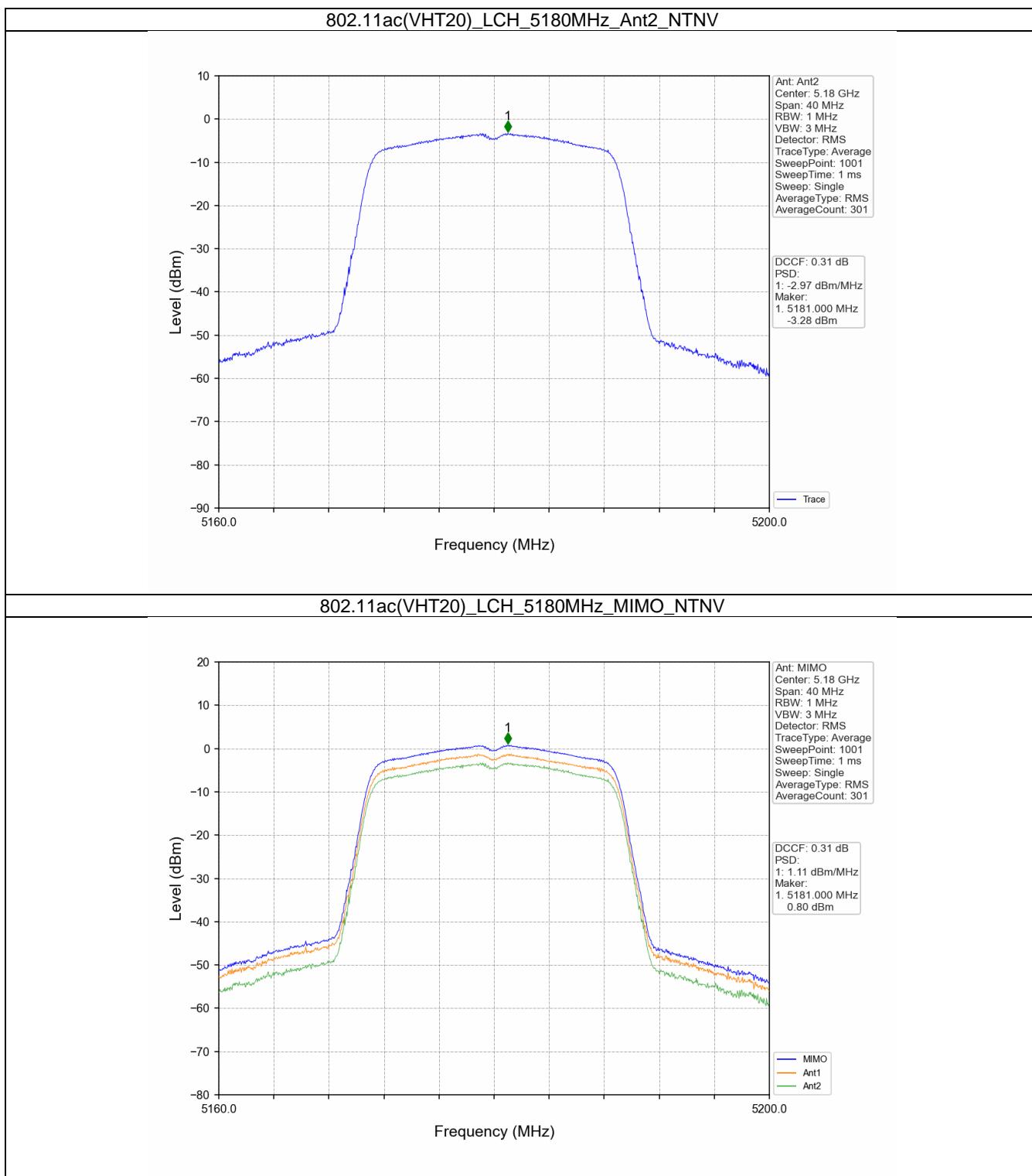




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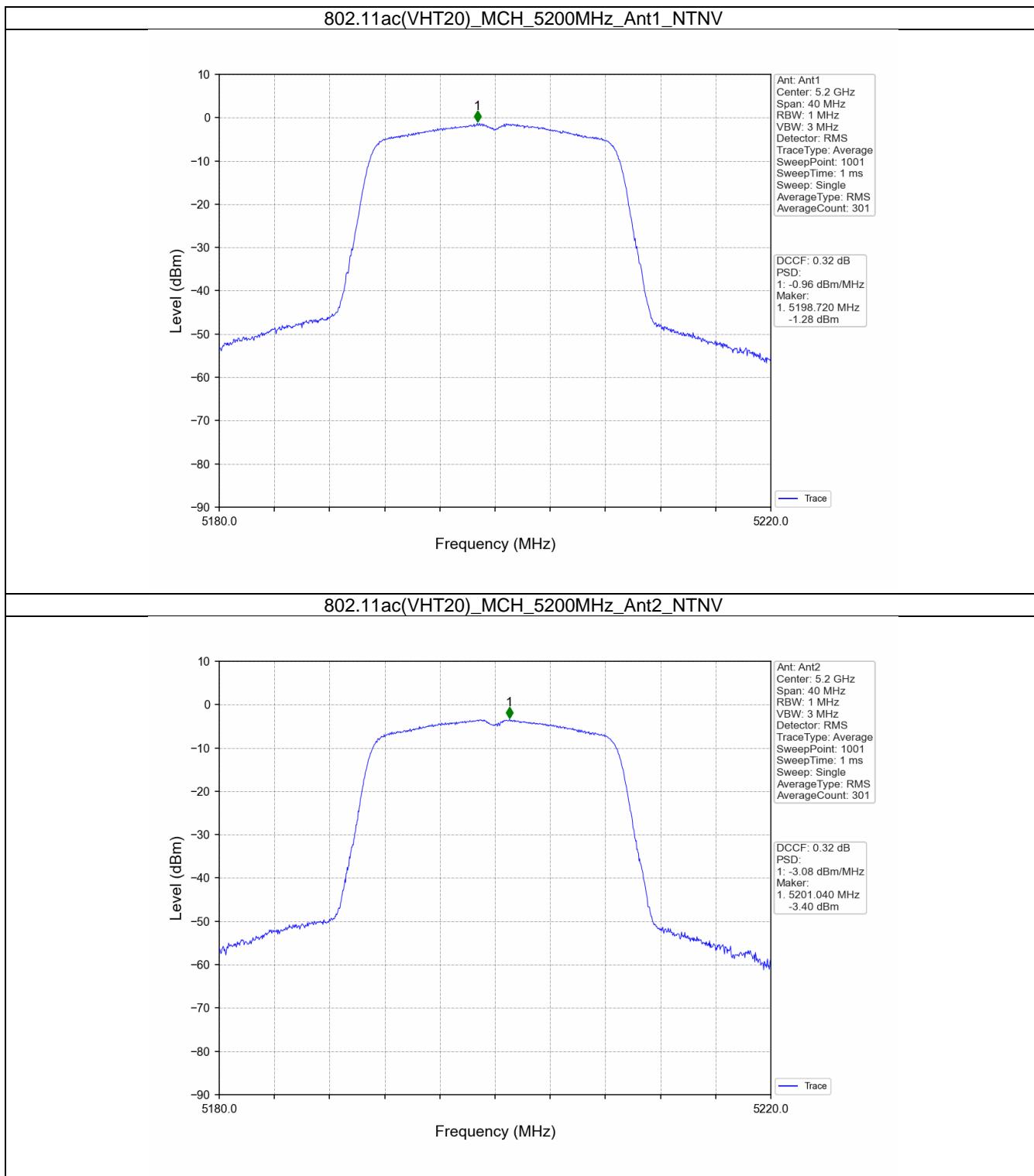
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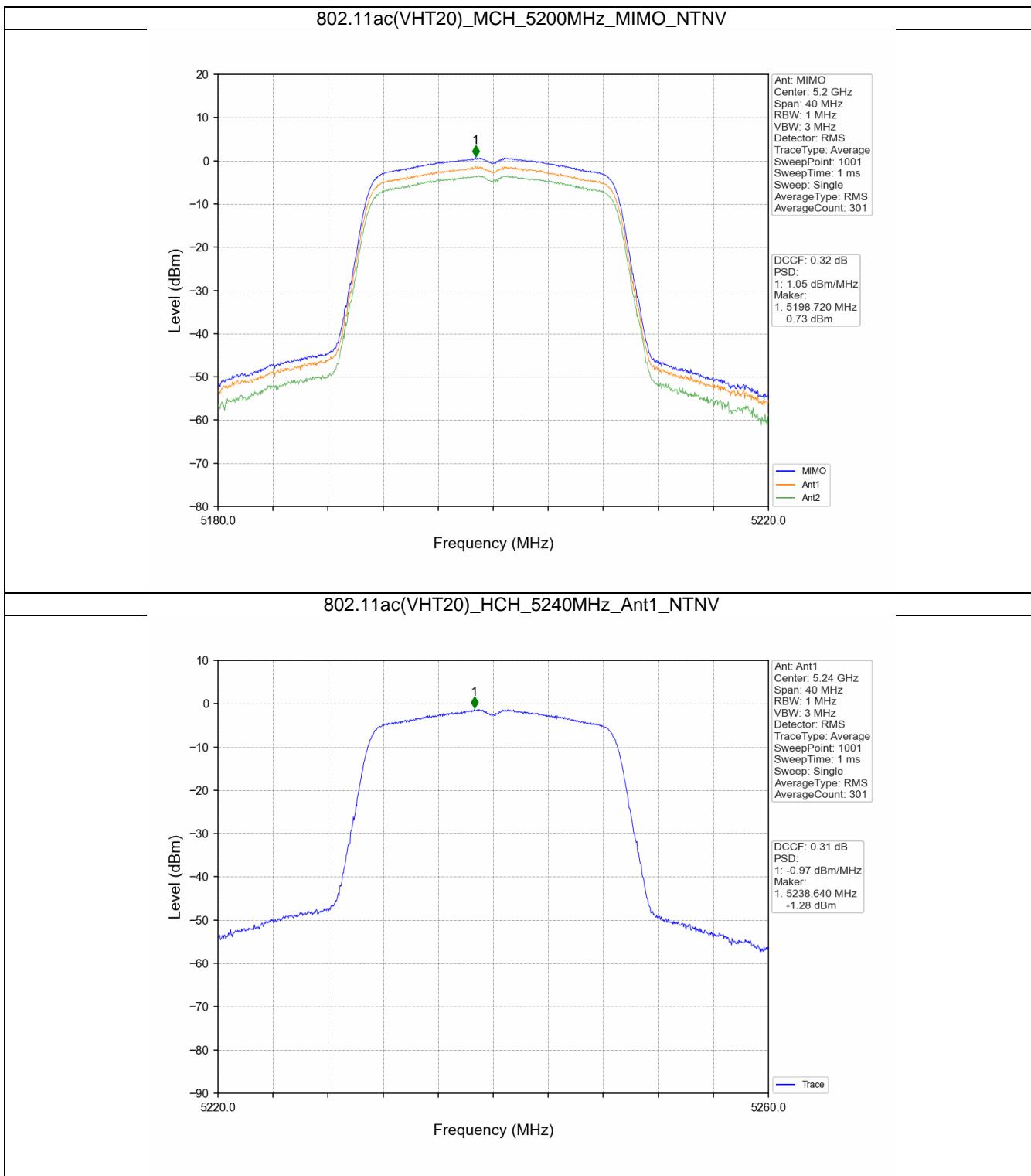
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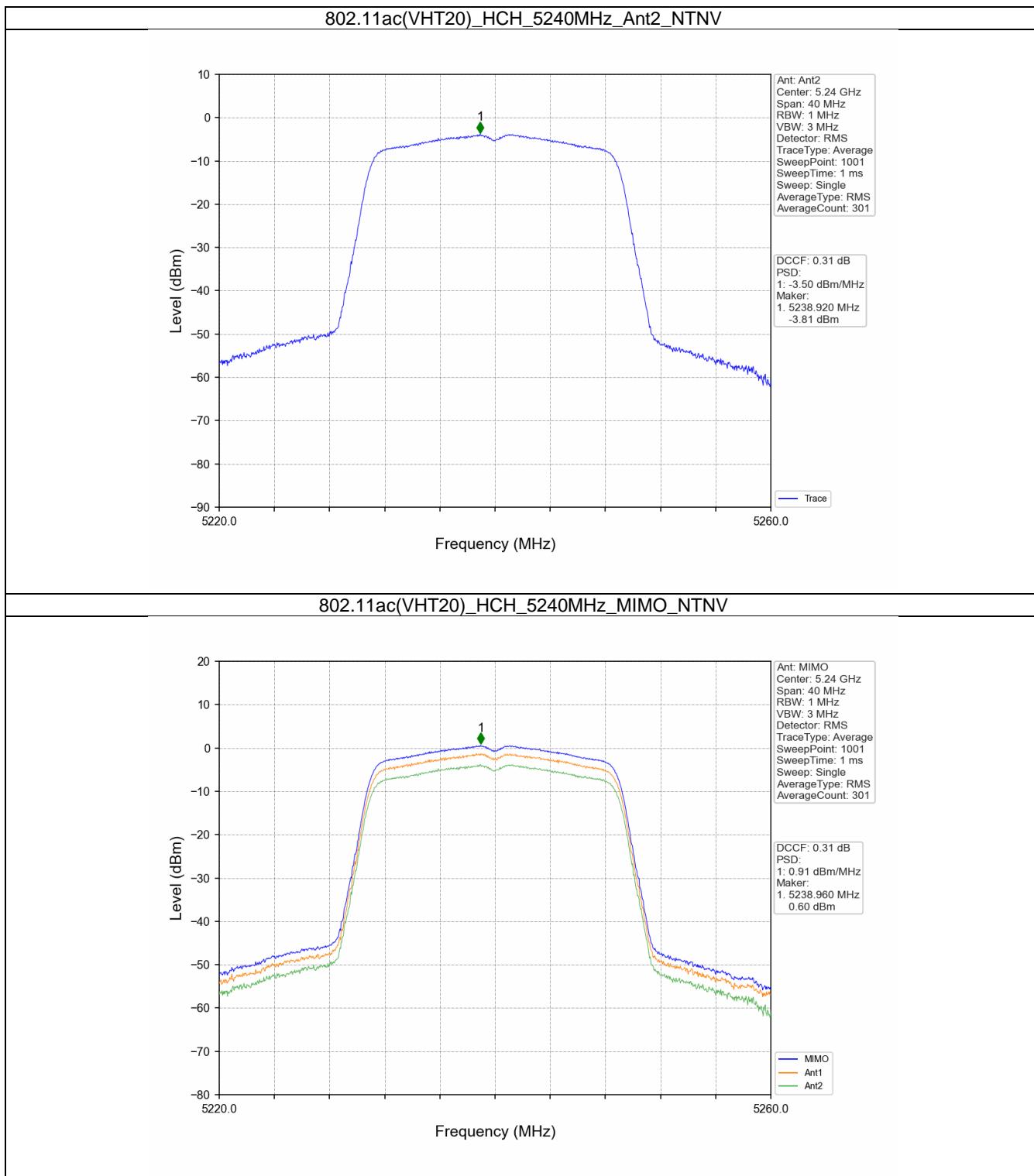




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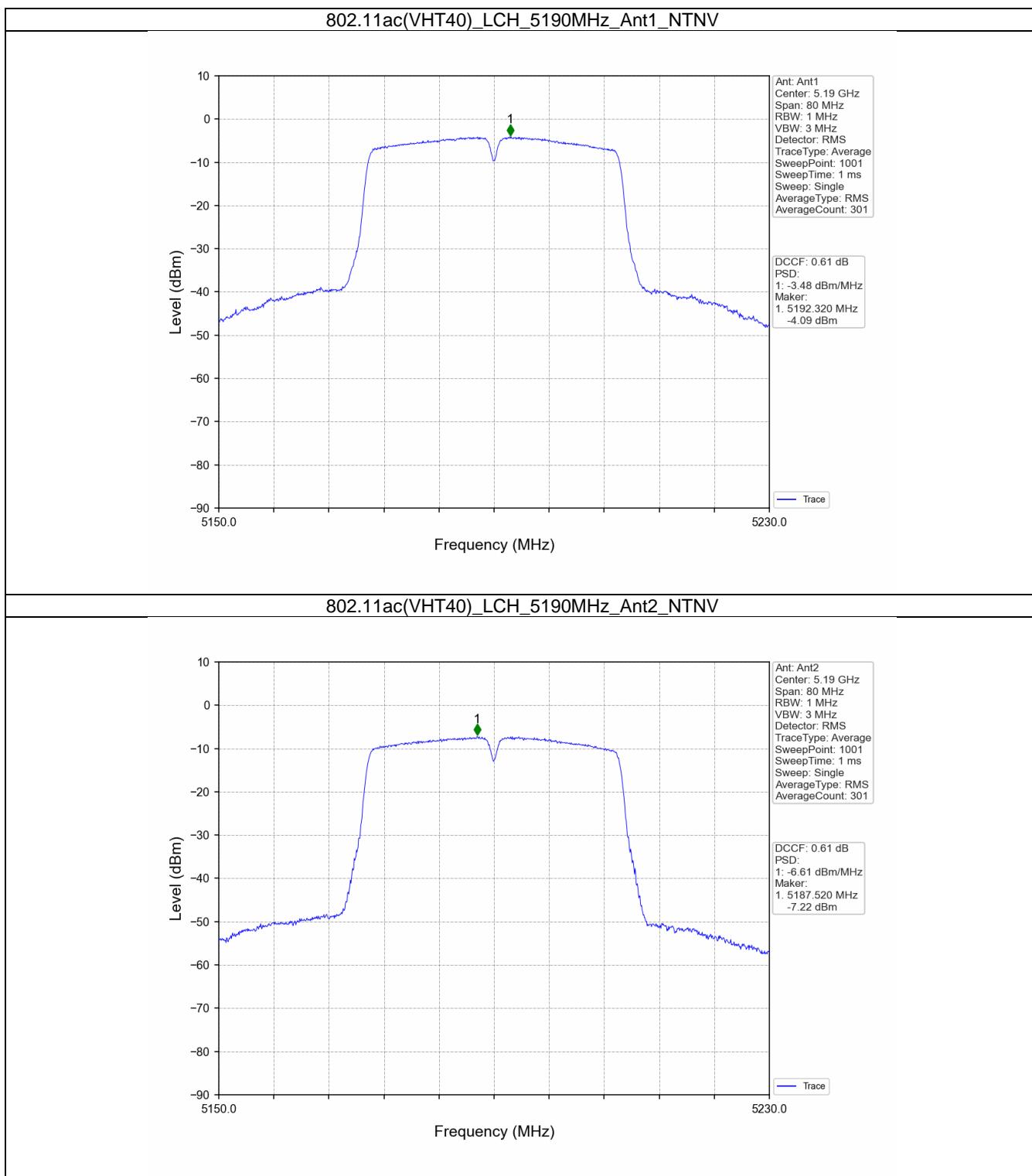
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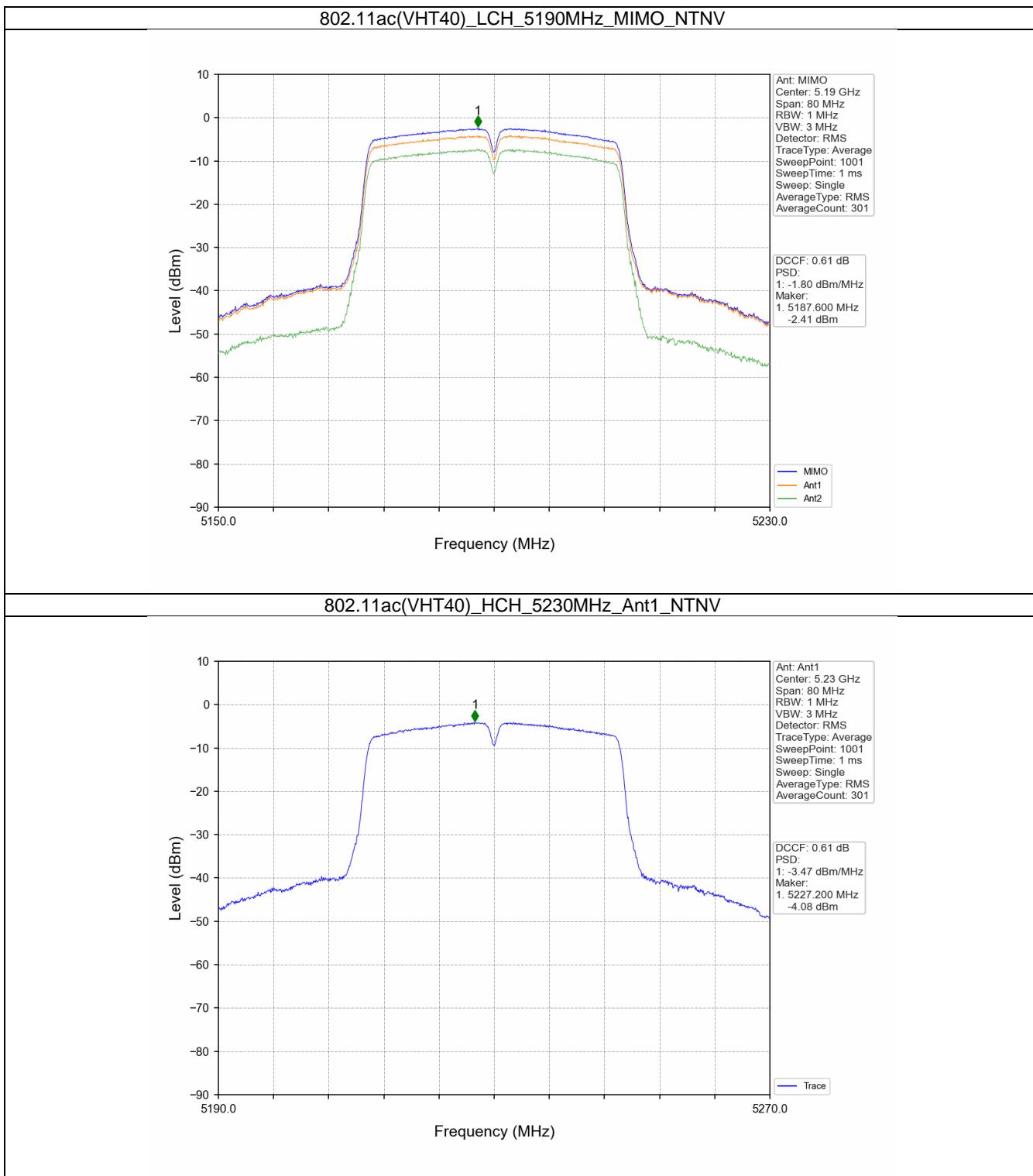
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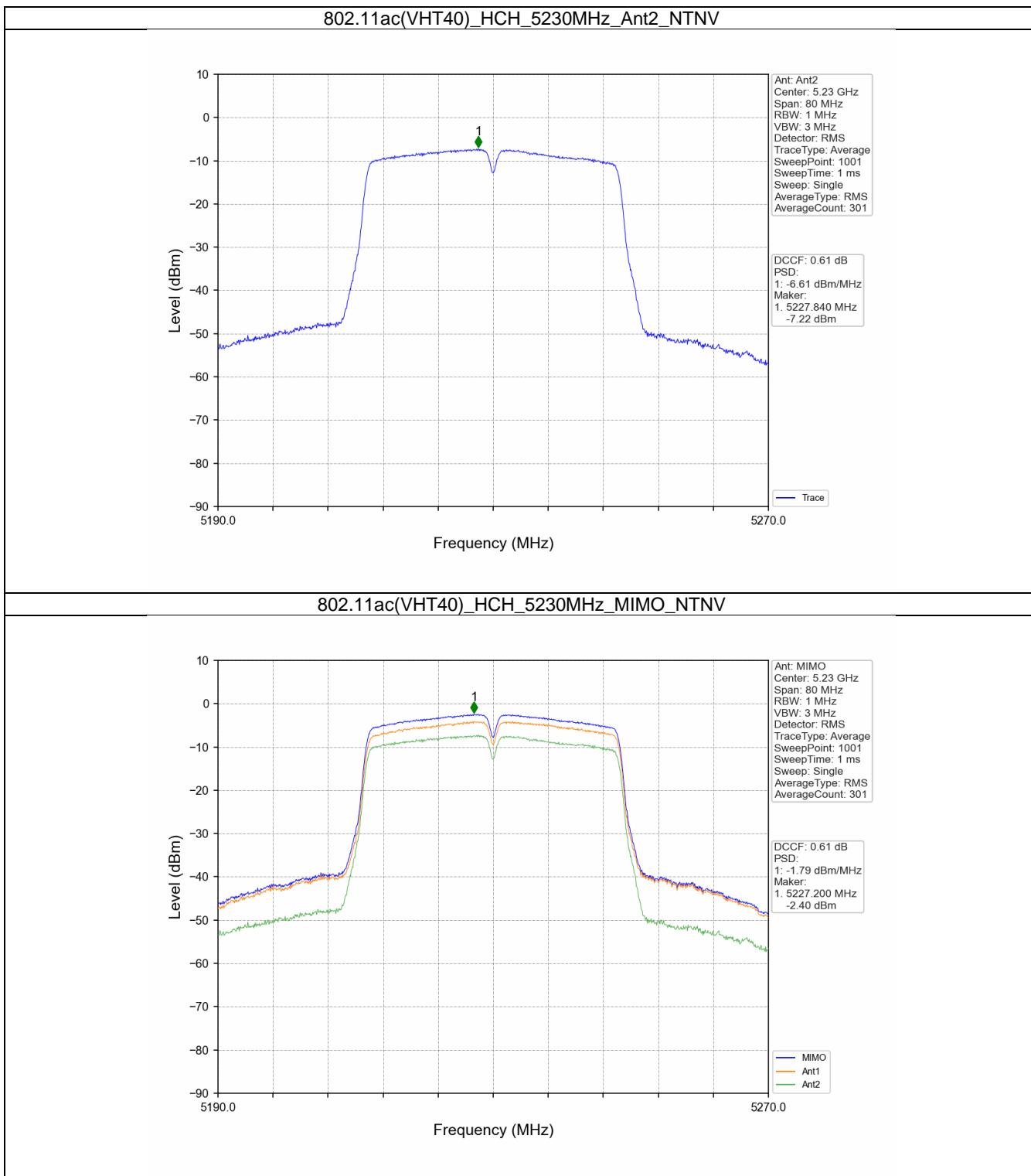
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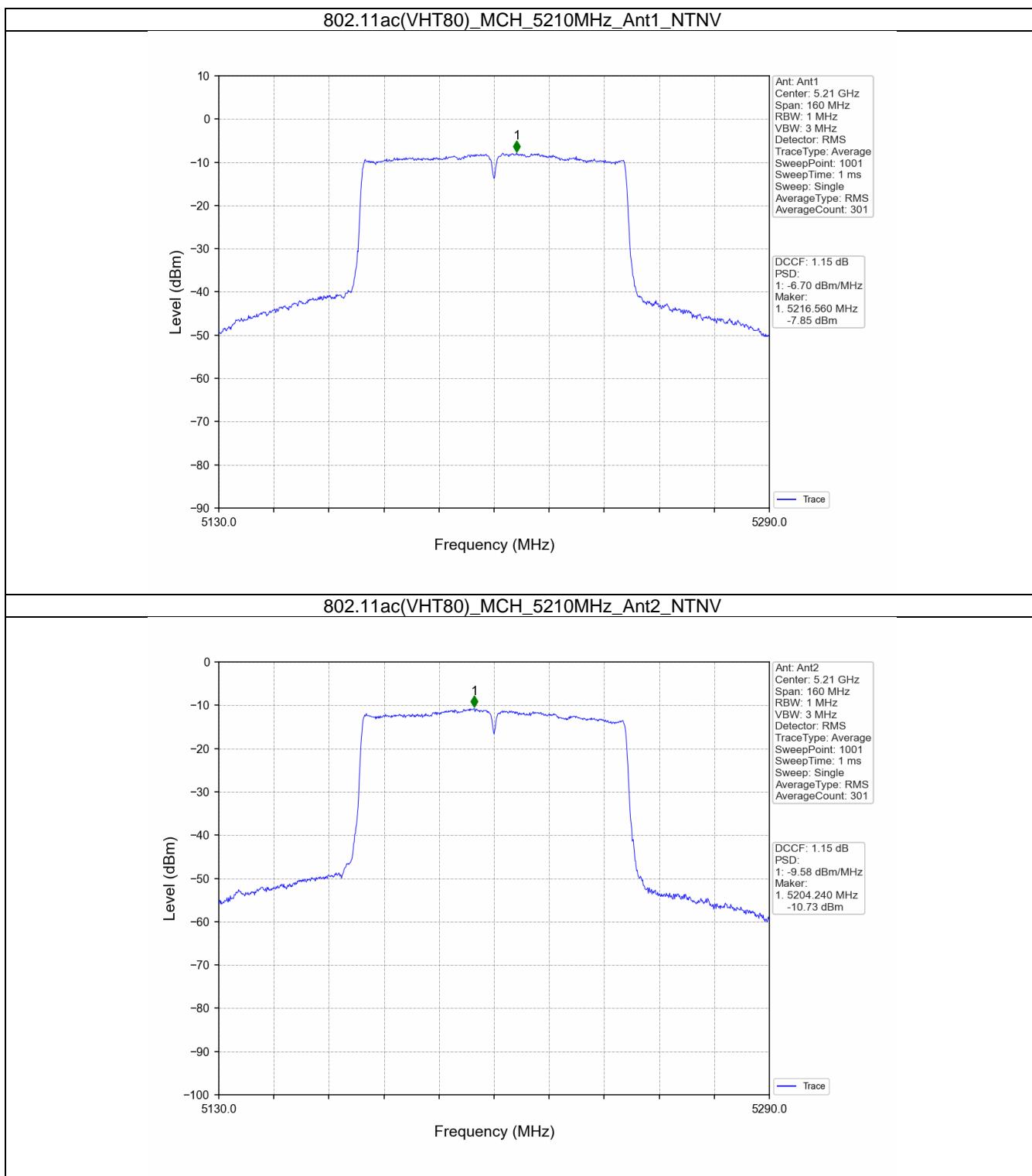
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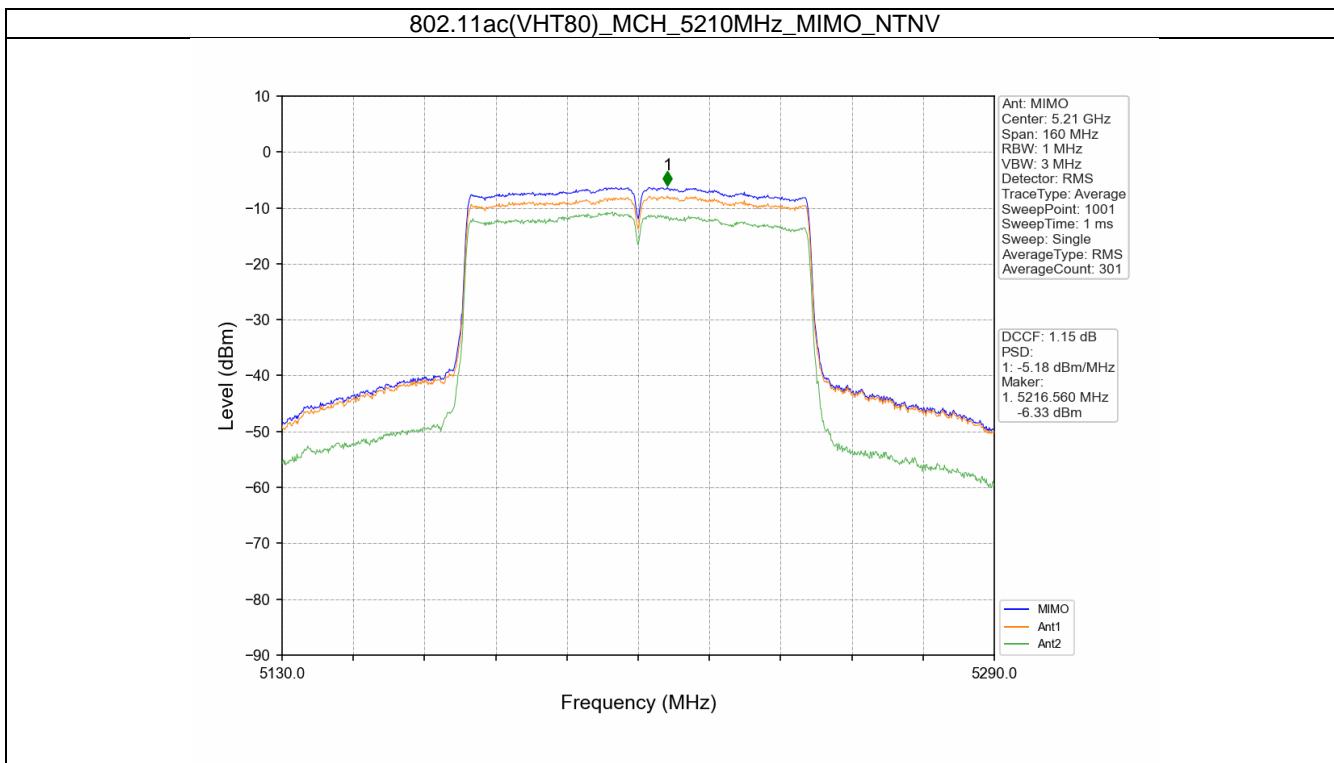
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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5745	-3.25	-4.42	/	<=30	Pass
		5785	-3.76	-5.02	/	<=30	Pass
		5825	-4.06	-5.03	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-4.48	-5.28	-2.00	<=30	Pass
		5785	-5.10	-5.71	-2.56	<=30	Pass
		5825	-5.37	-6.29	-2.97	<=30	Pass
802.11n (HT40)	MIMO	5755	-7.52	-8.17	-5.00	<=30	Pass
		5795	-8.52	-9.06	-5.84	<=30	Pass
802.11ac (VHT20)	MIMO	5745	-4.61	-5.33	-2.04	<=30	Pass
		5785	-4.96	-5.94	-2.52	<=30	Pass
		5825	-5.46	-6.30	-2.91	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-7.82	-8.56	-5.18	<=30	Pass
		5795	-8.03	-9.05	-5.64	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-10.88	-11.91	-8.54	<=30	Pass

Note1: Antenna Gain: Ant1: 2.30dBi; Ant2: 0.78dBi;

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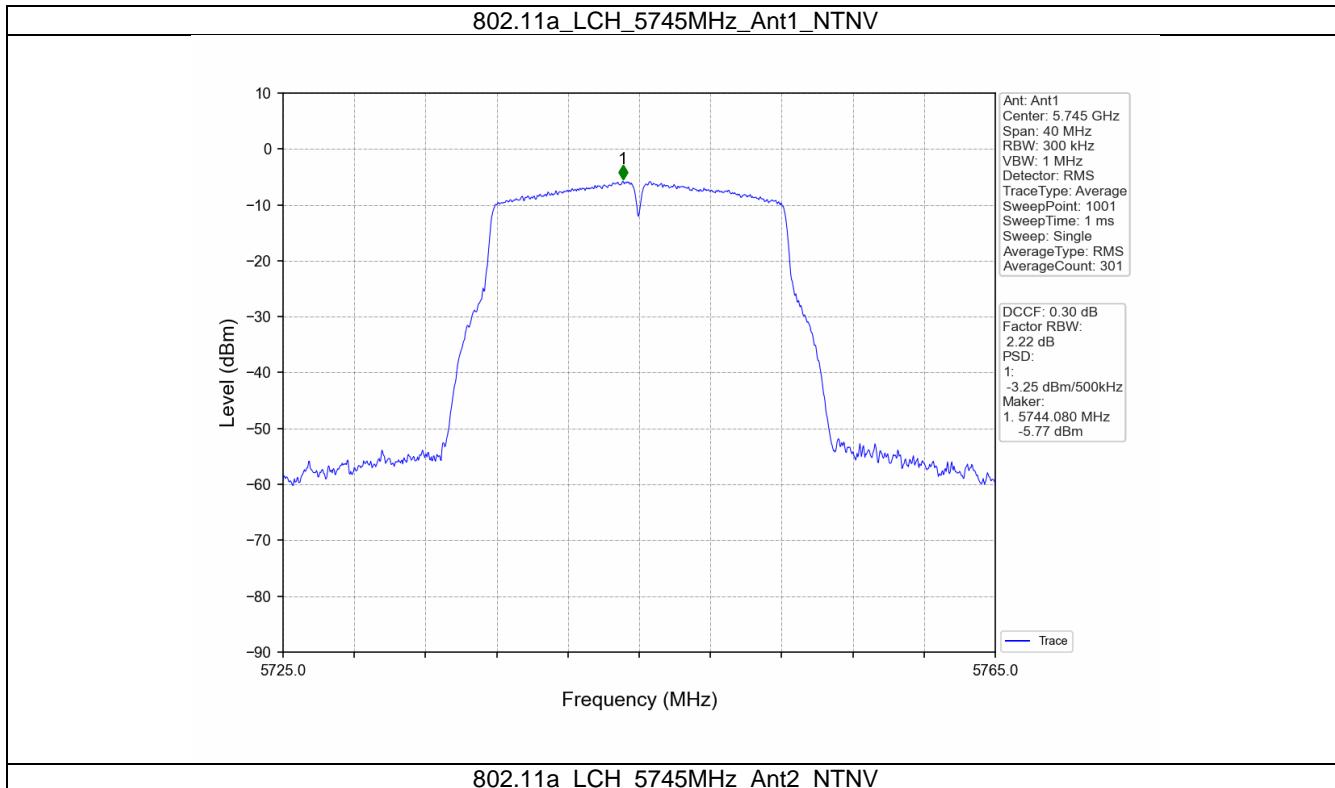
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4.2.2 Test Graph



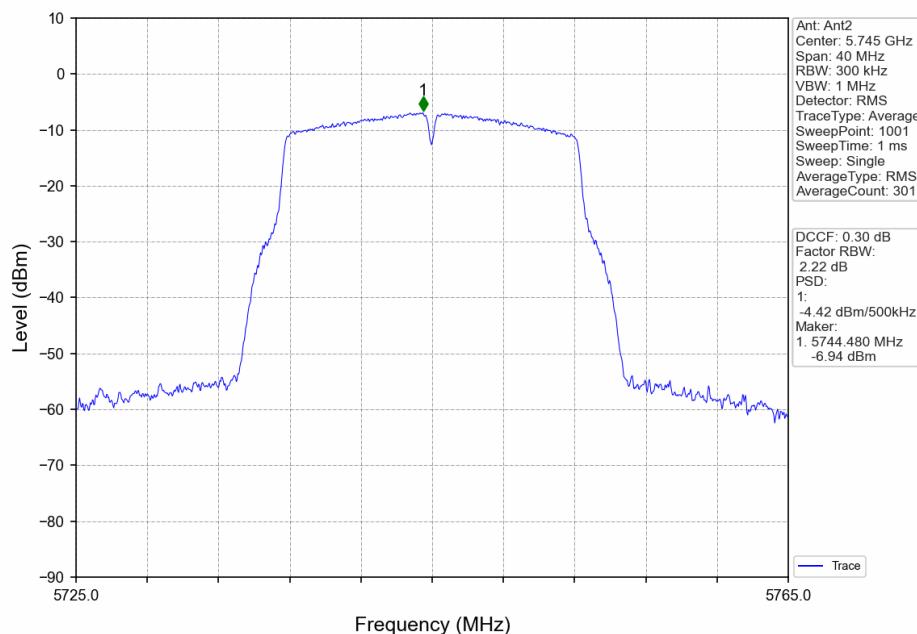
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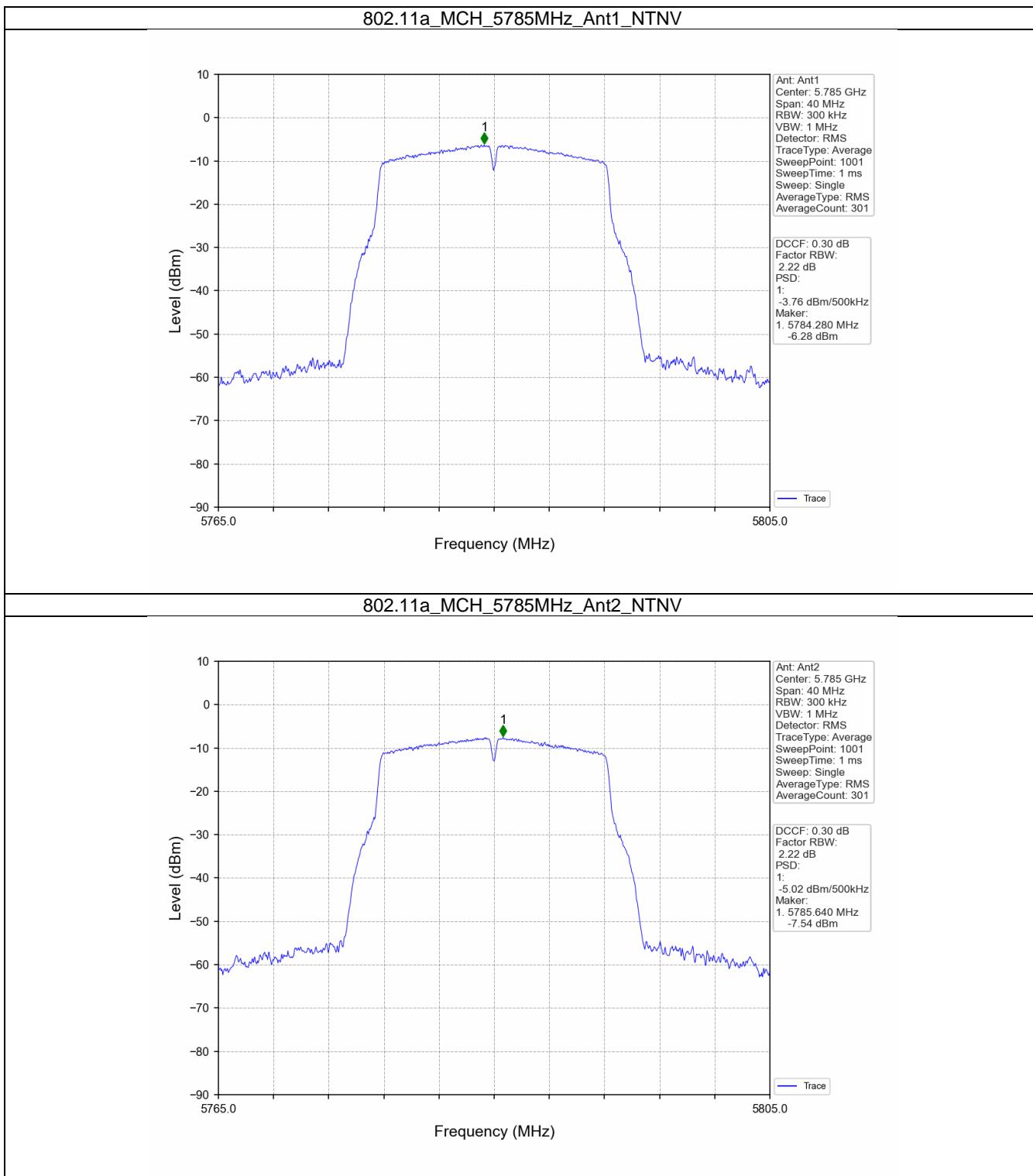
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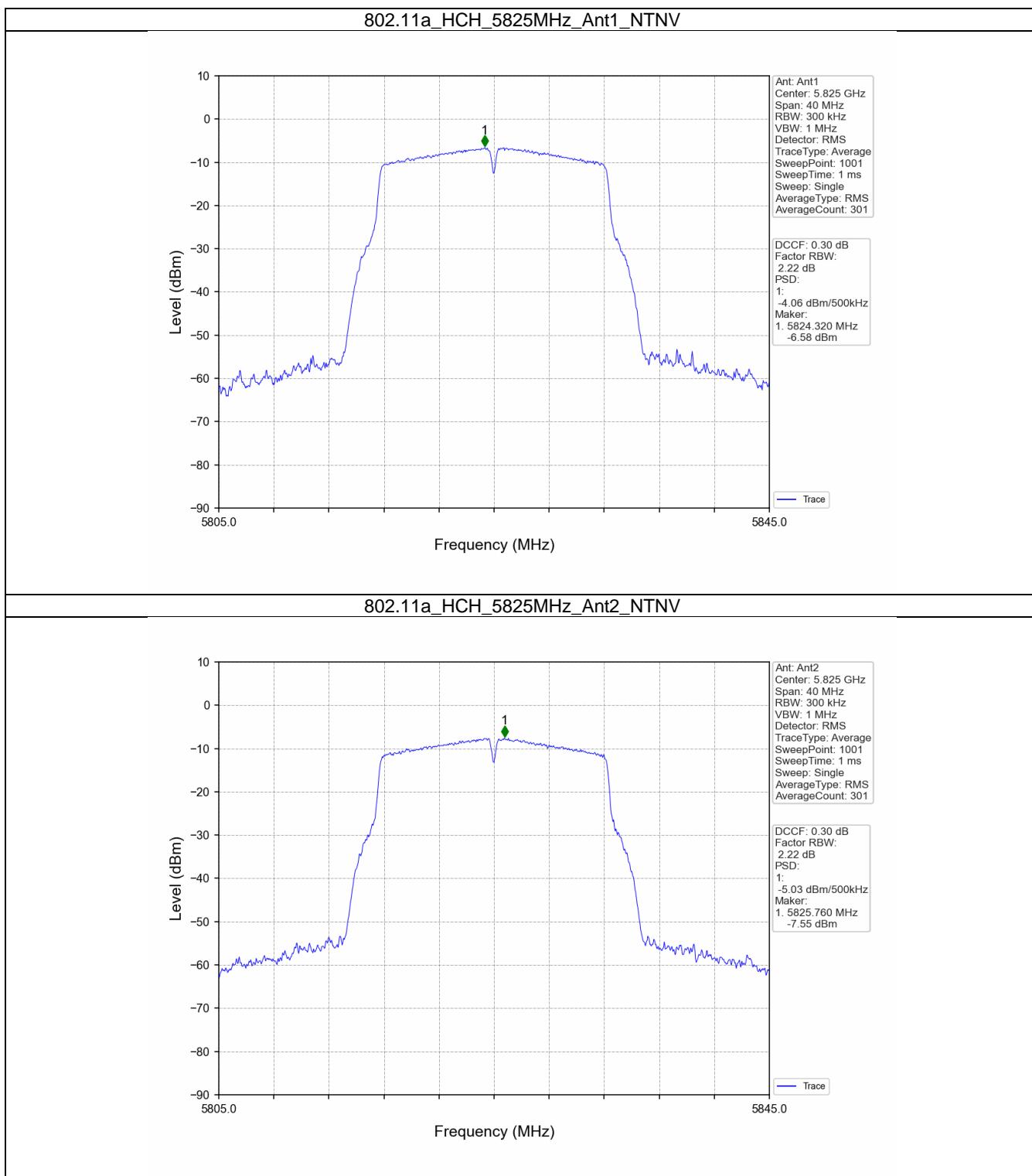
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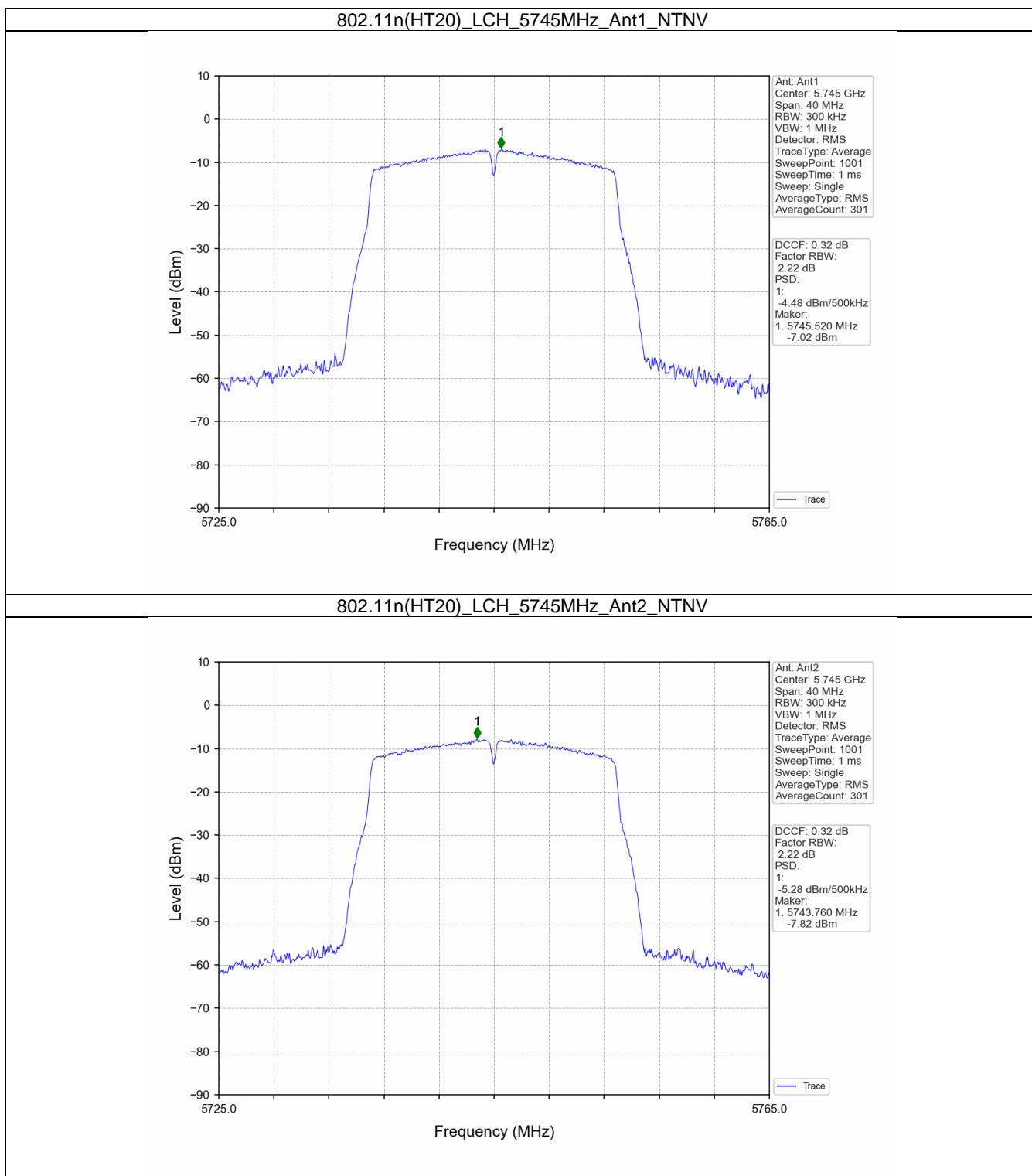
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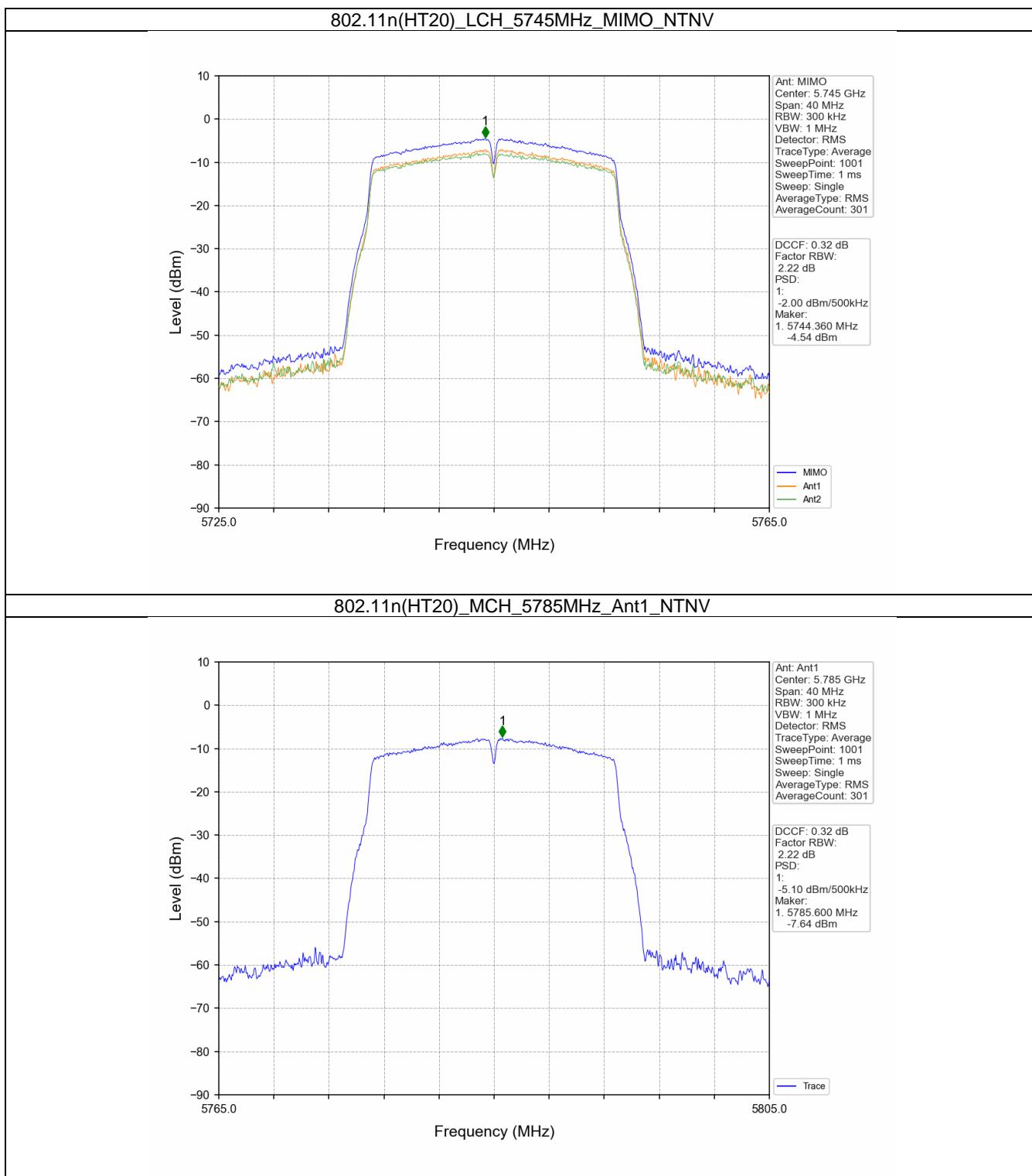
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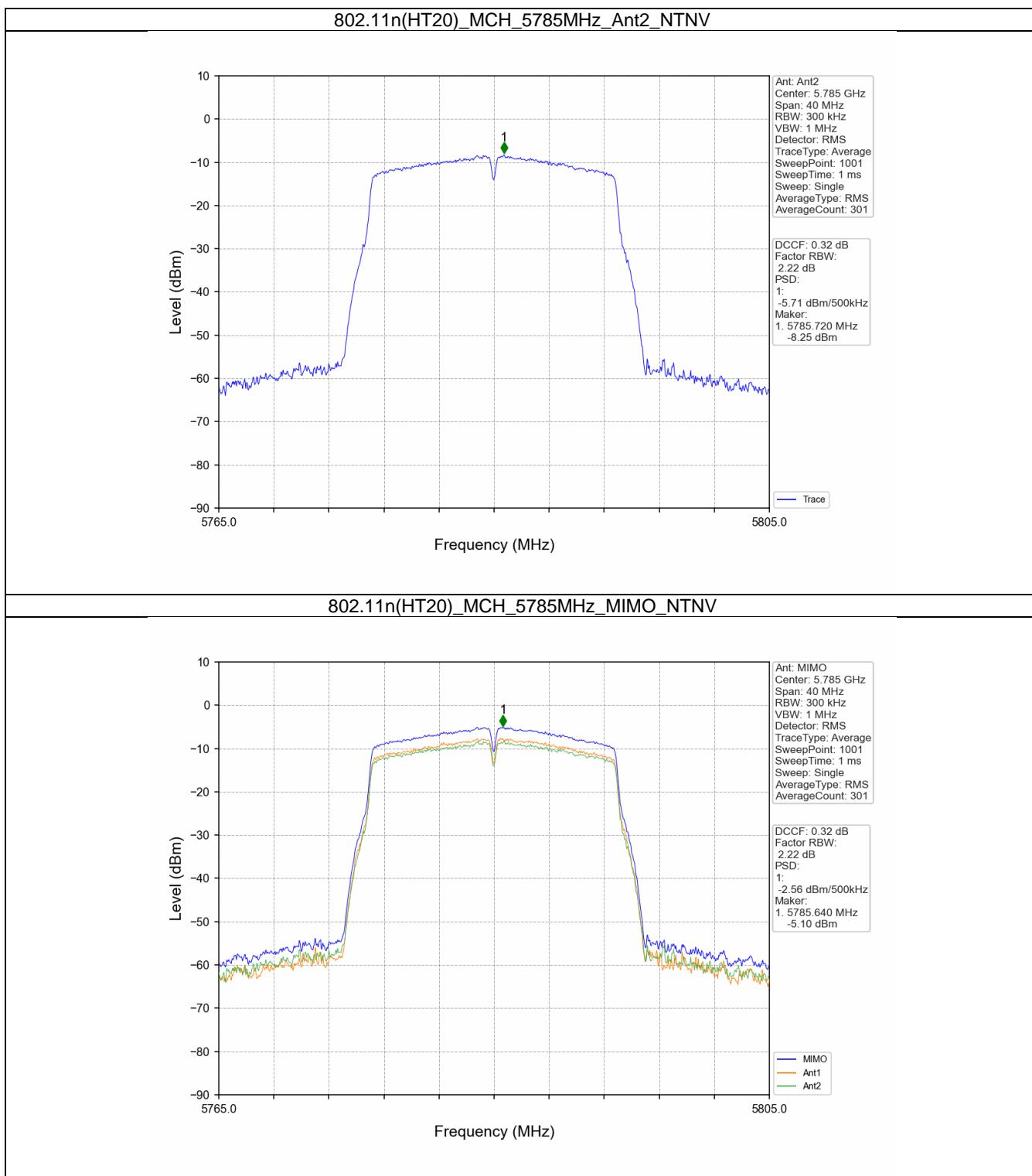
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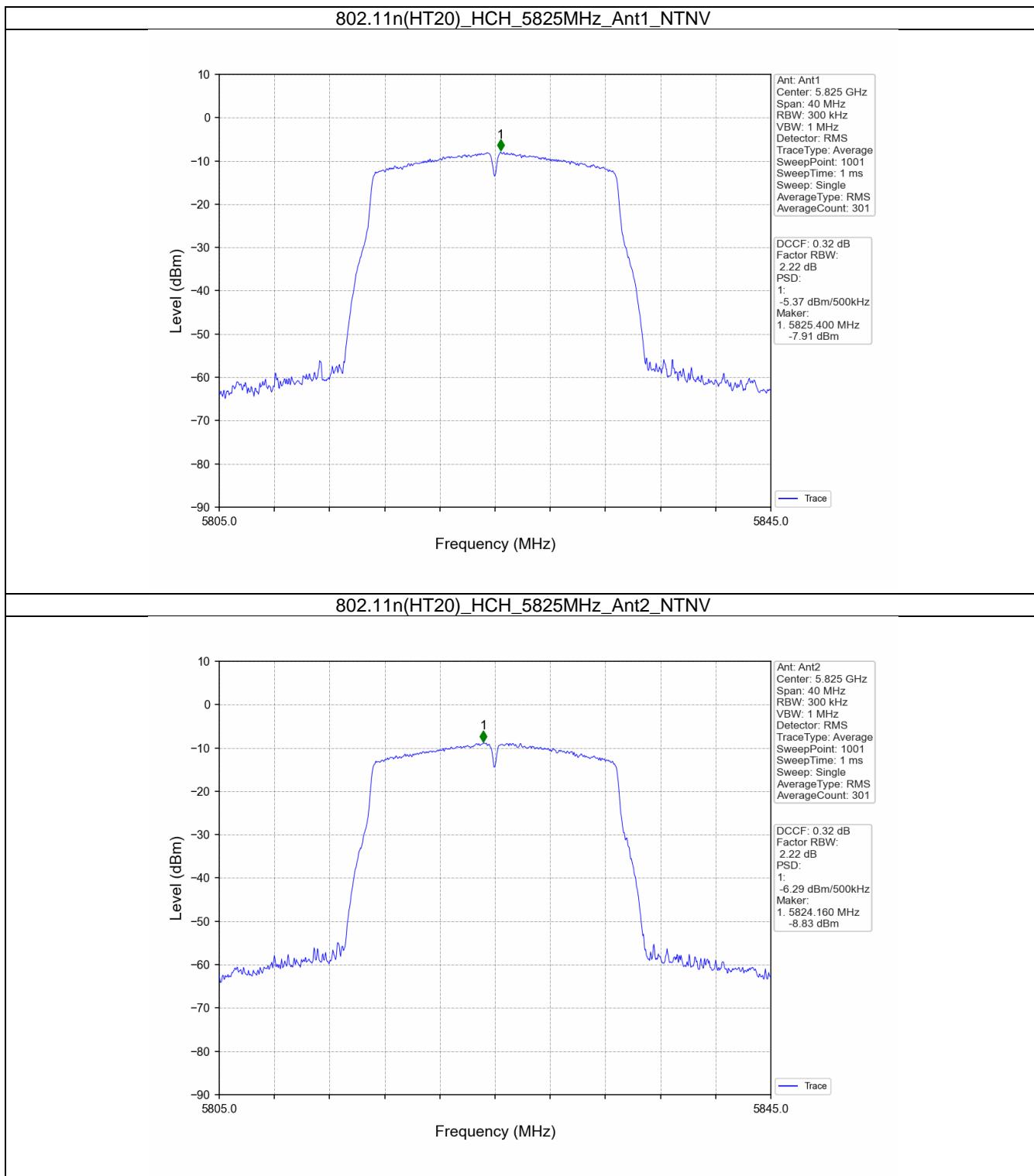
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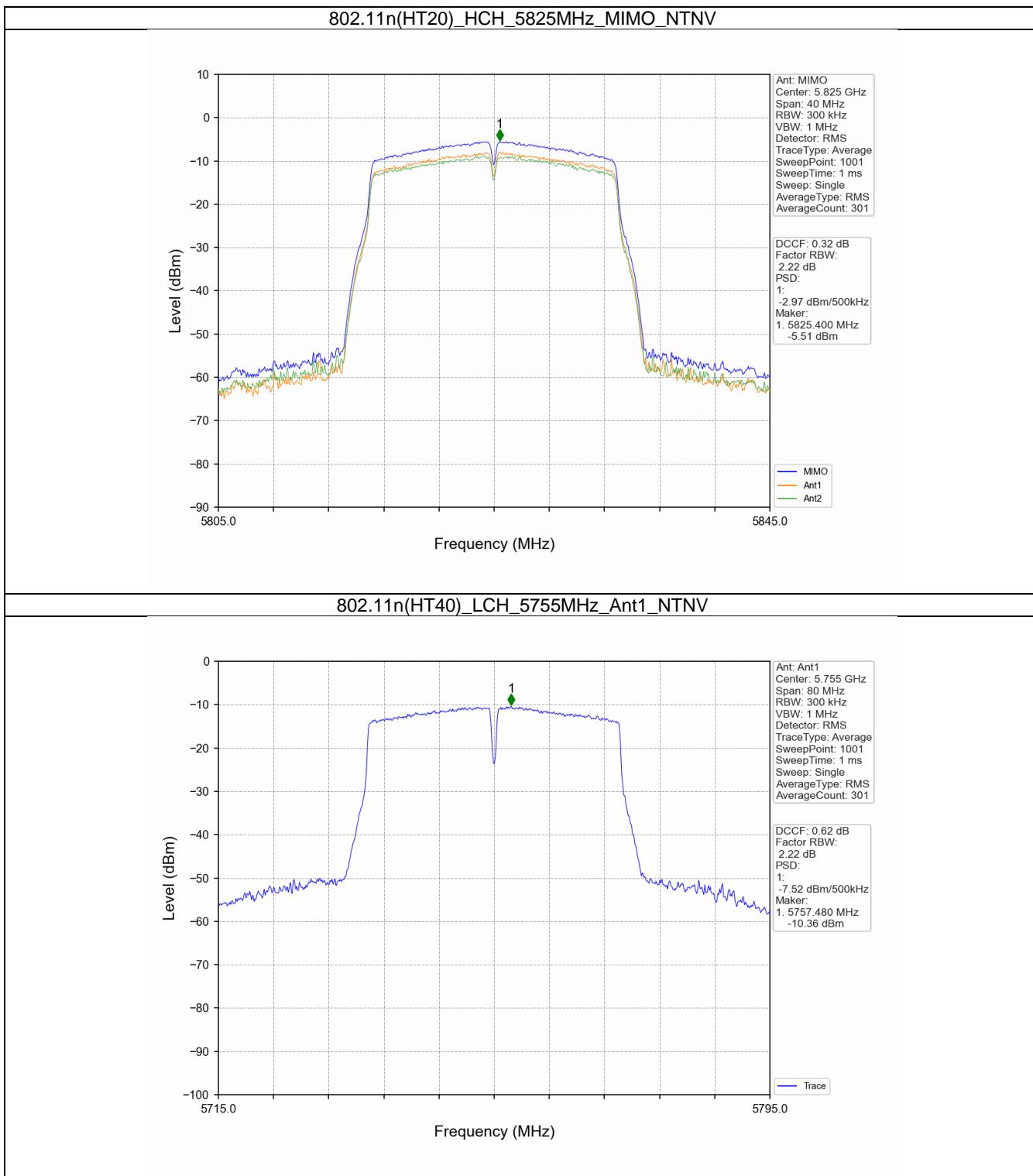
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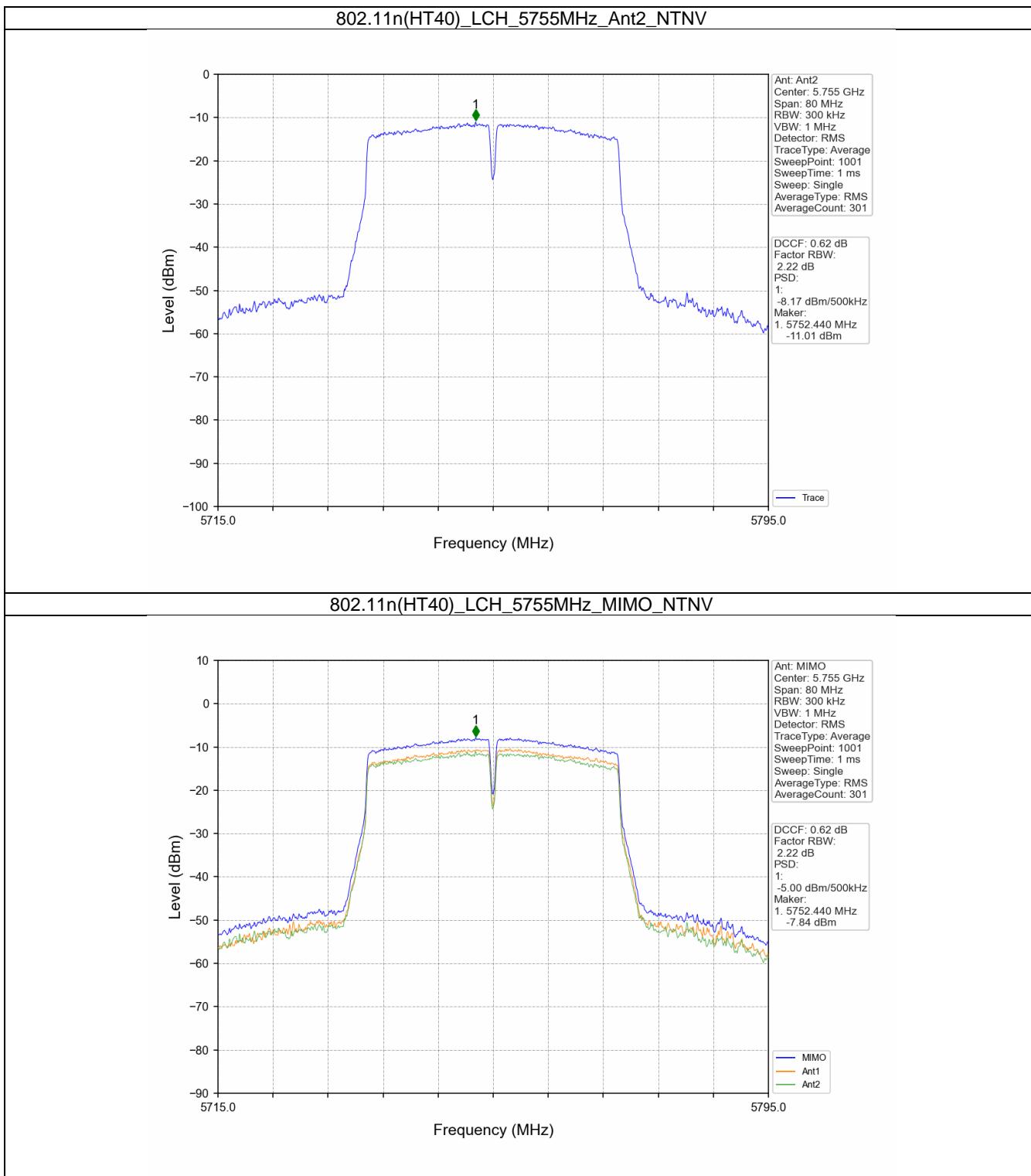
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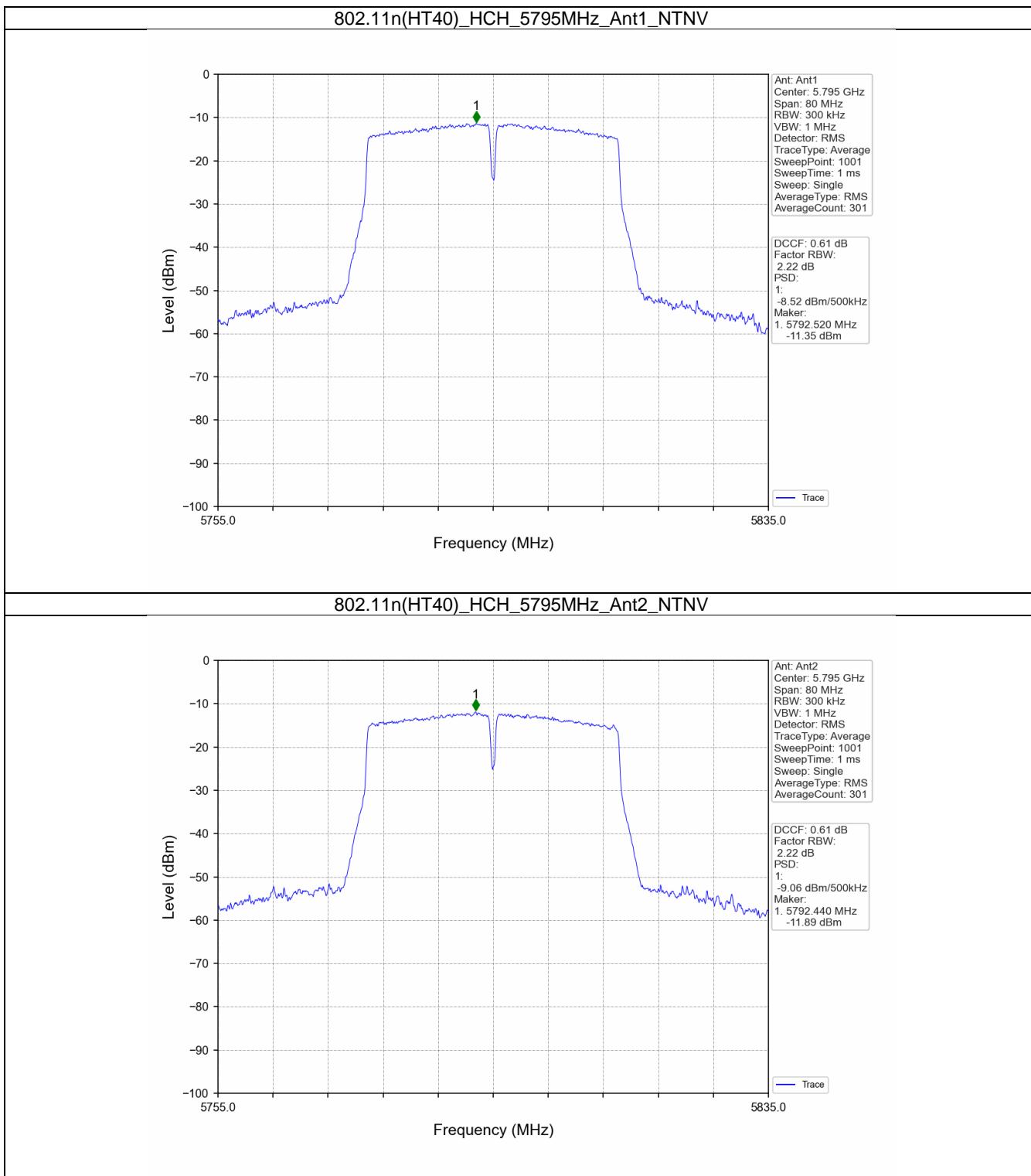




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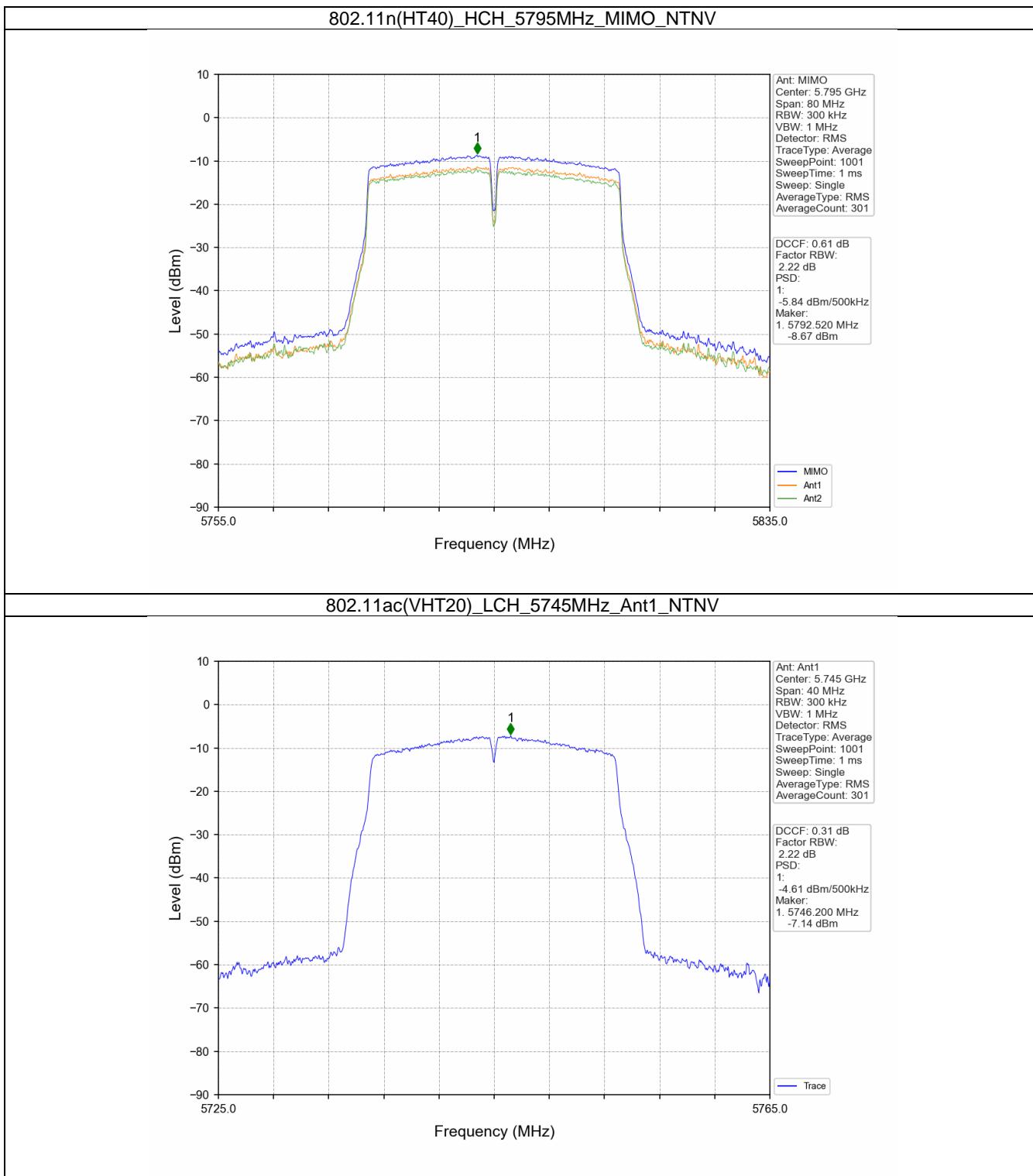




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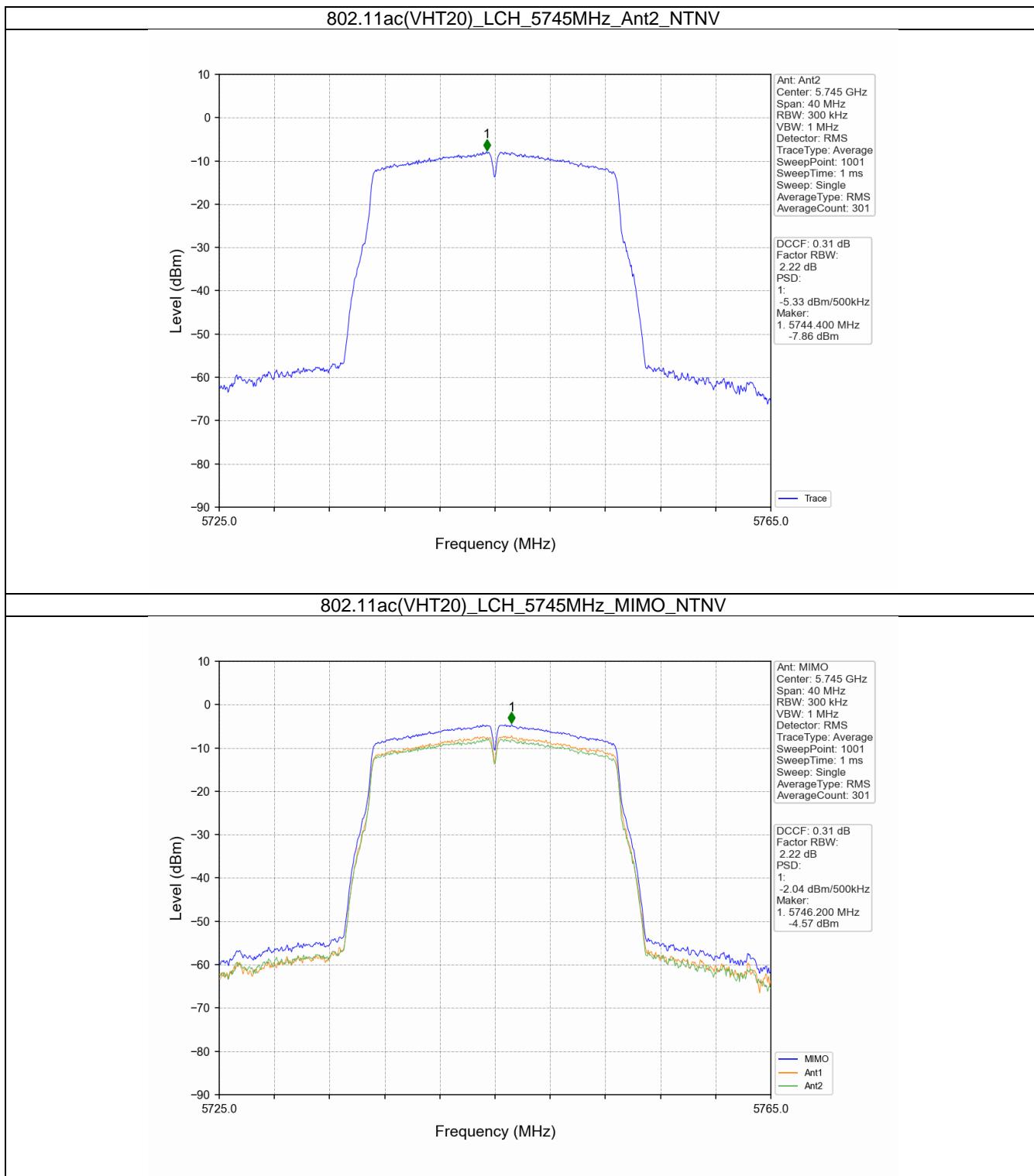
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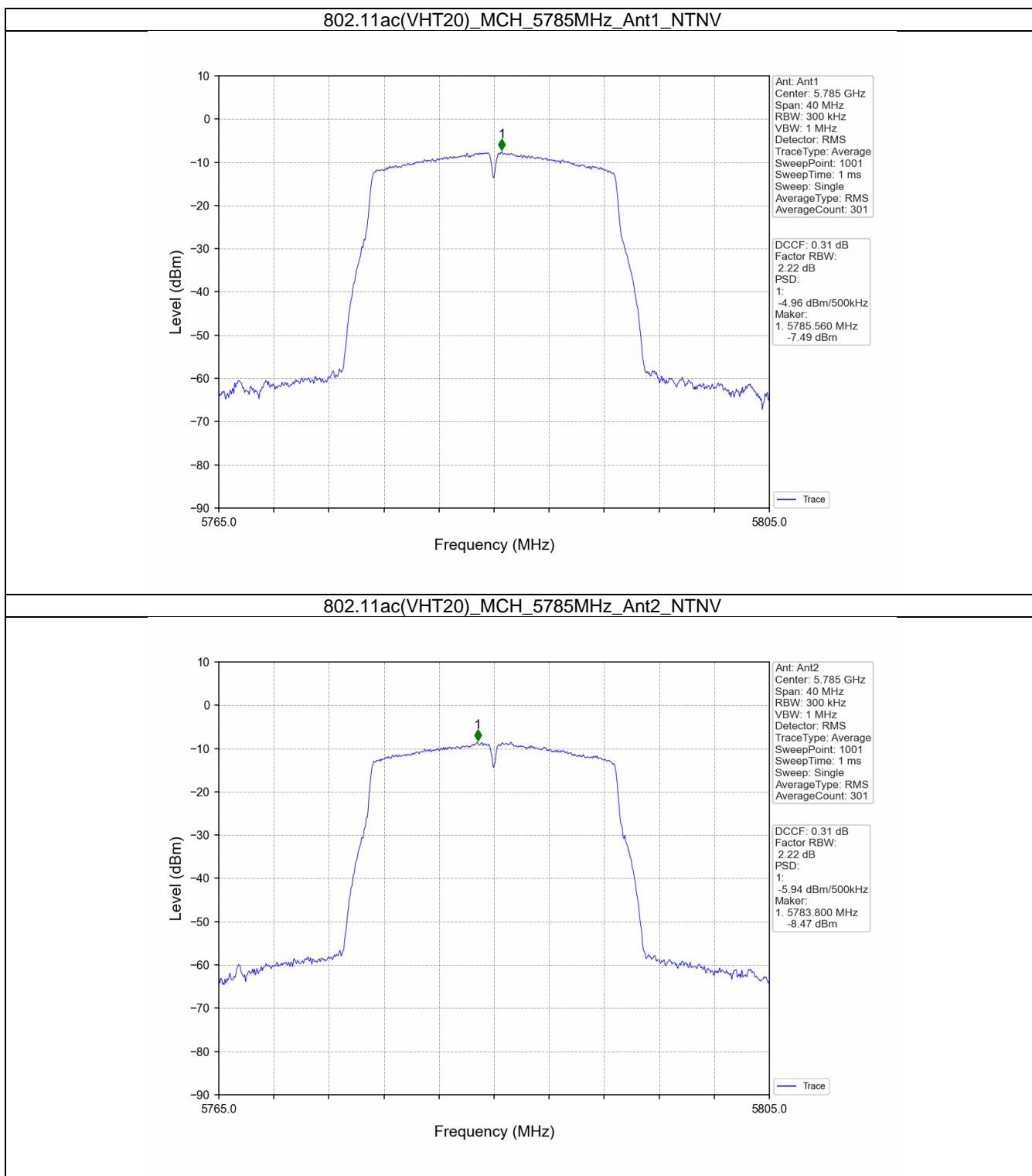
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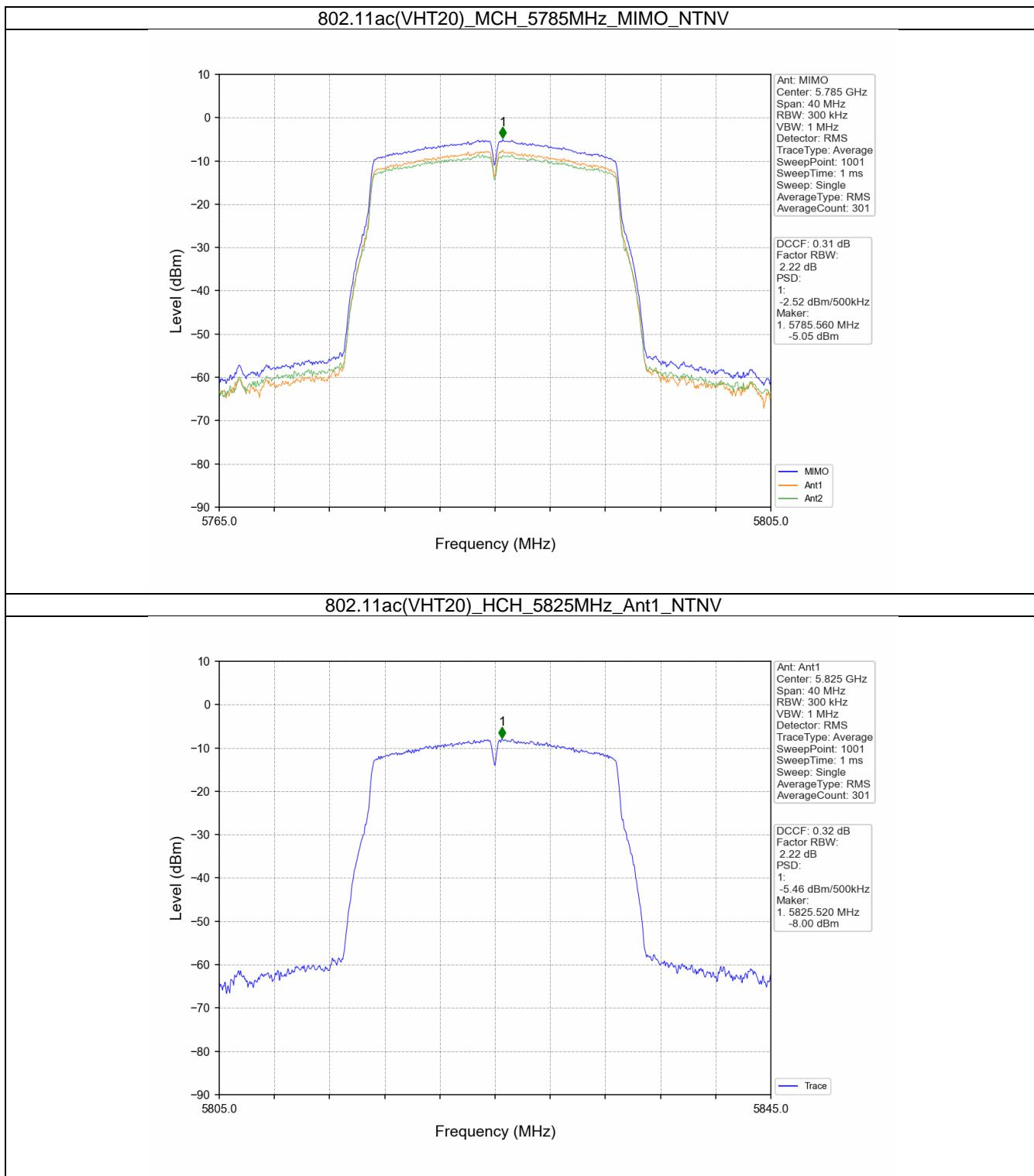
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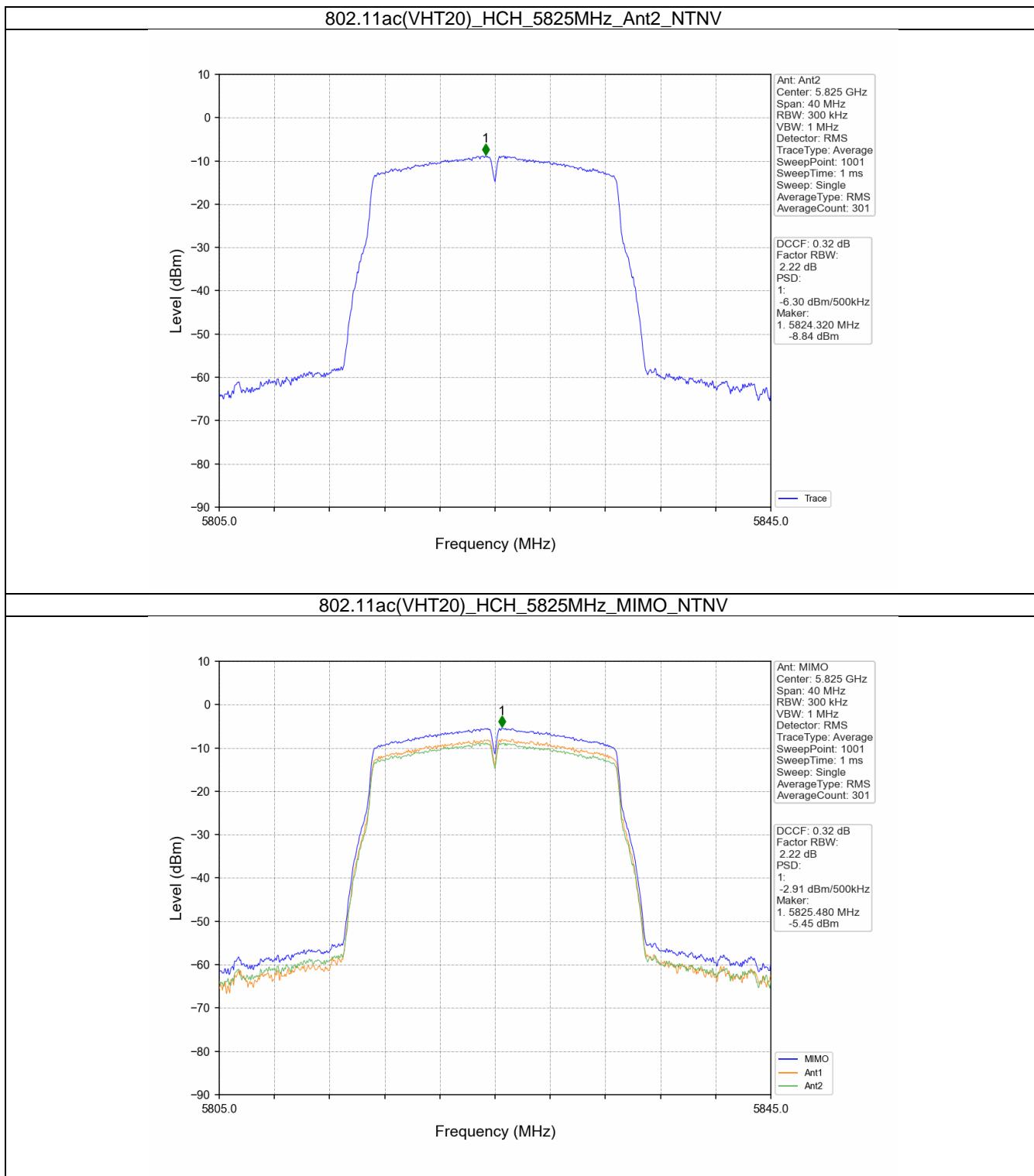
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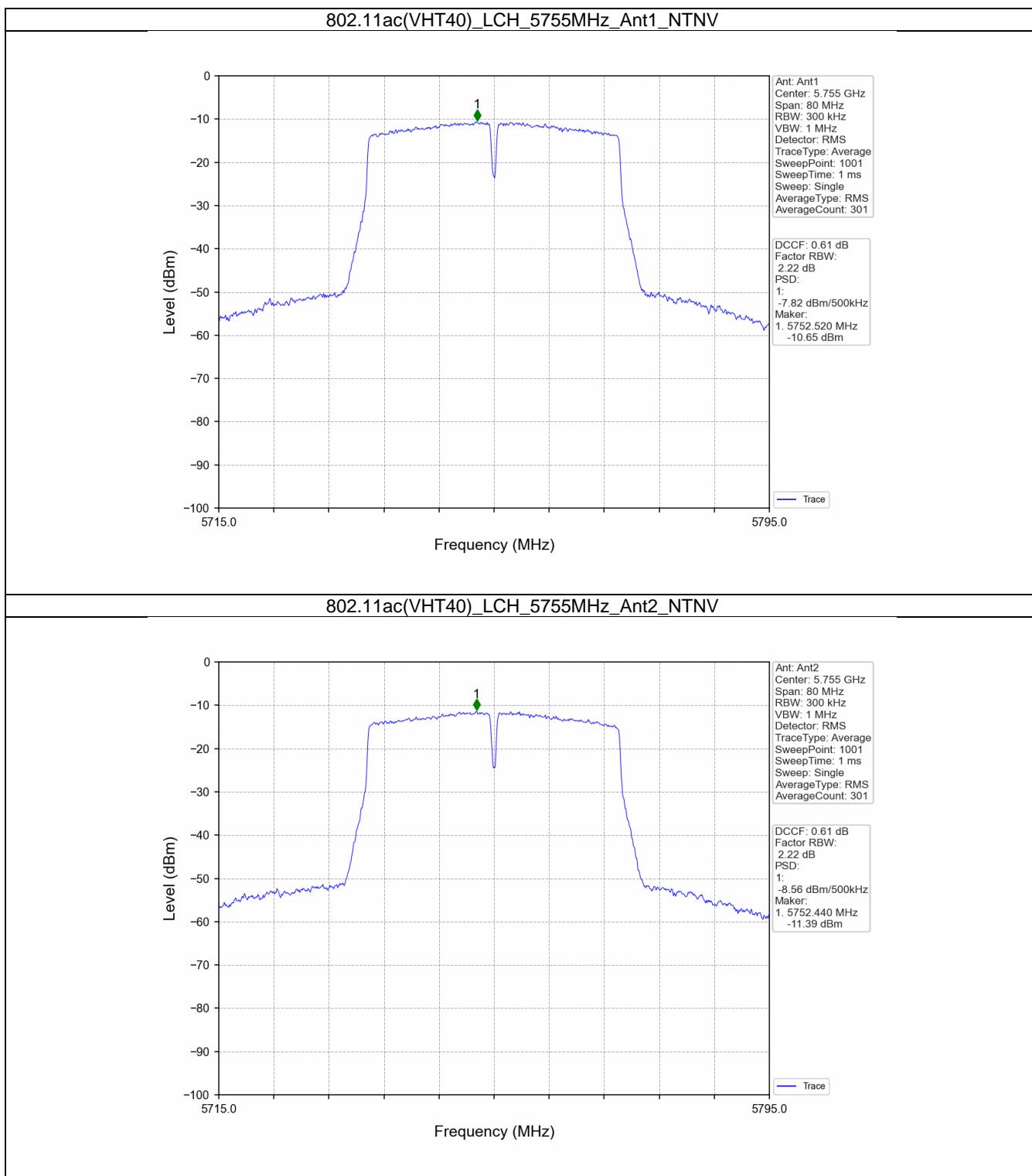
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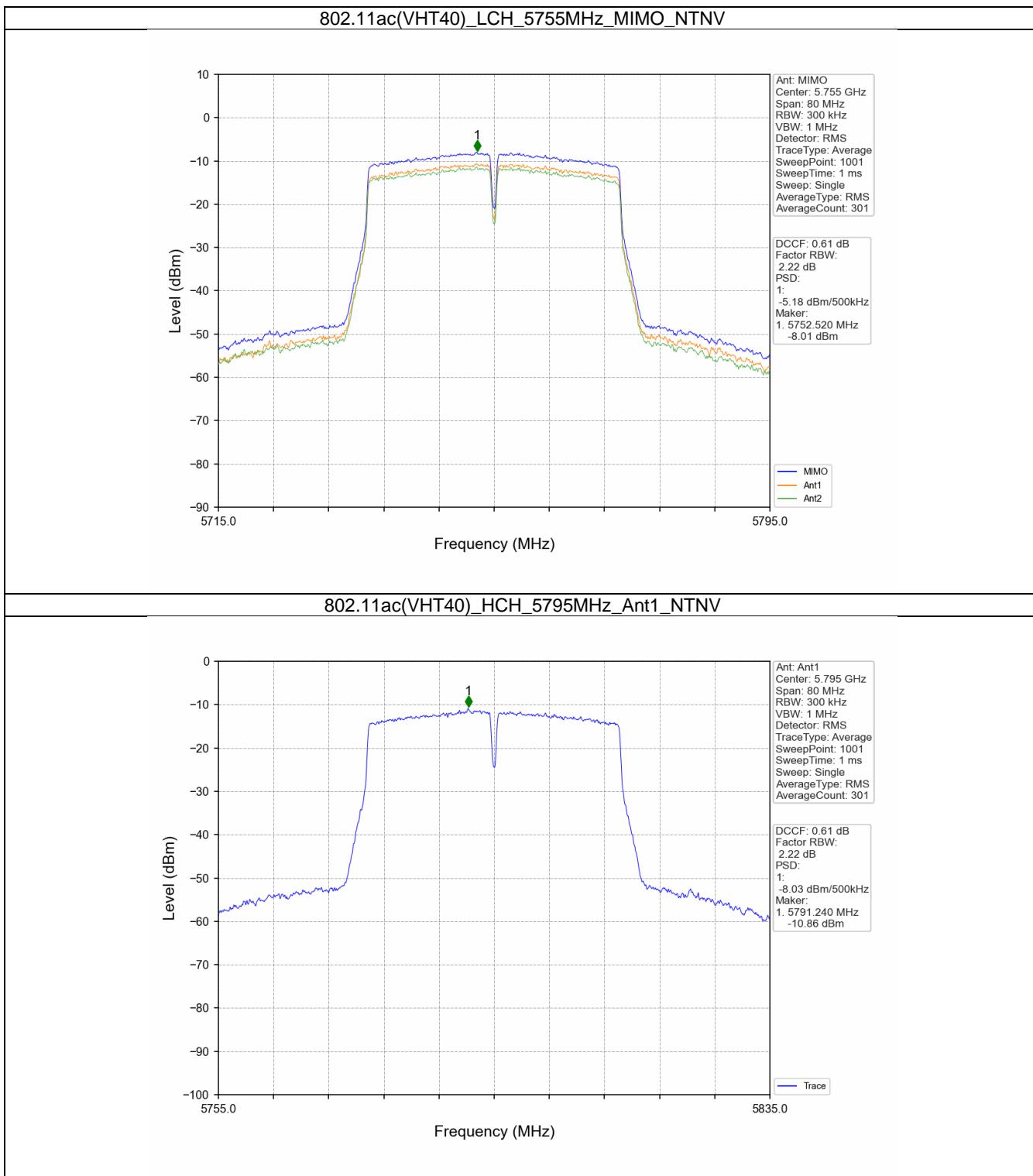
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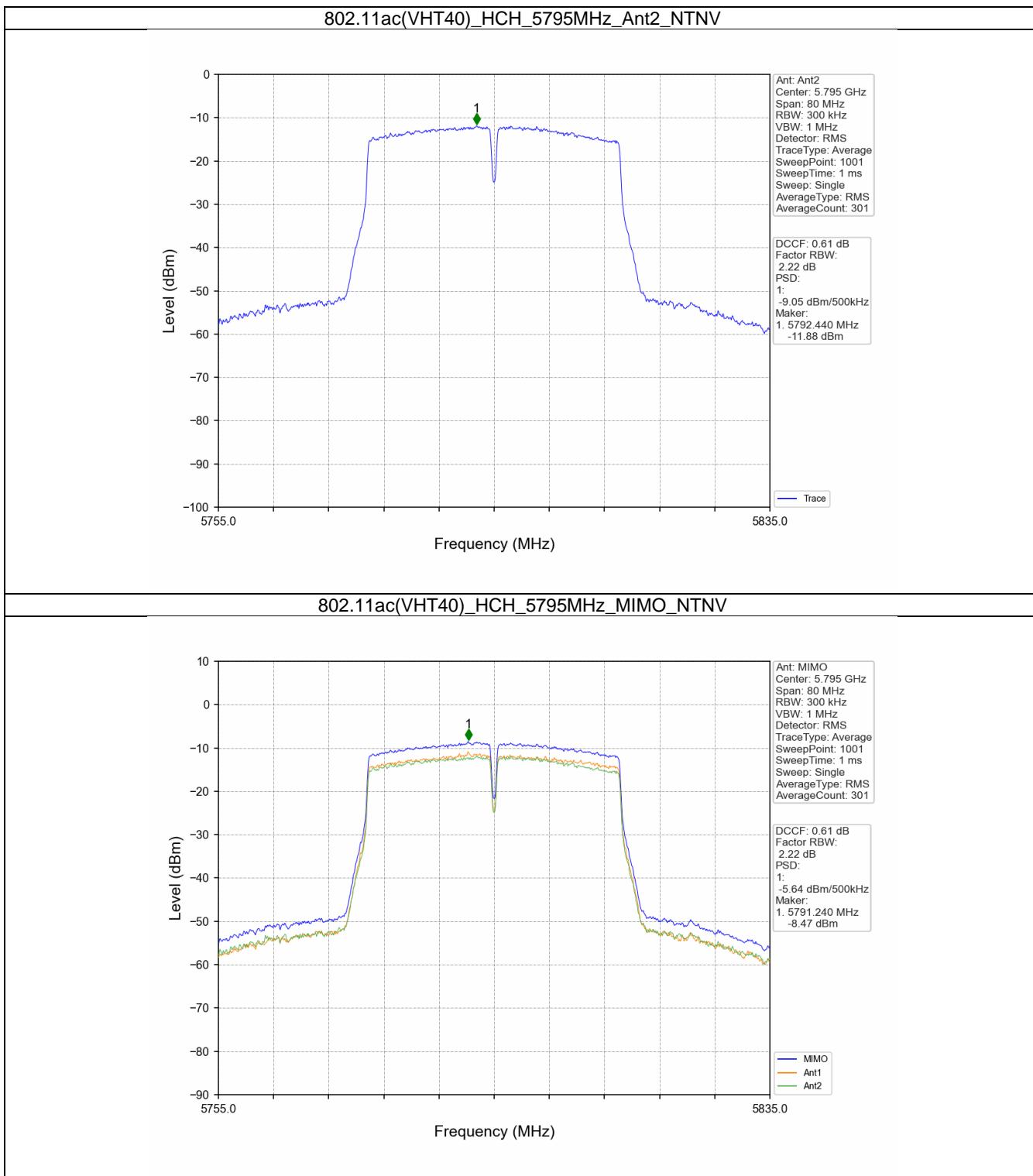
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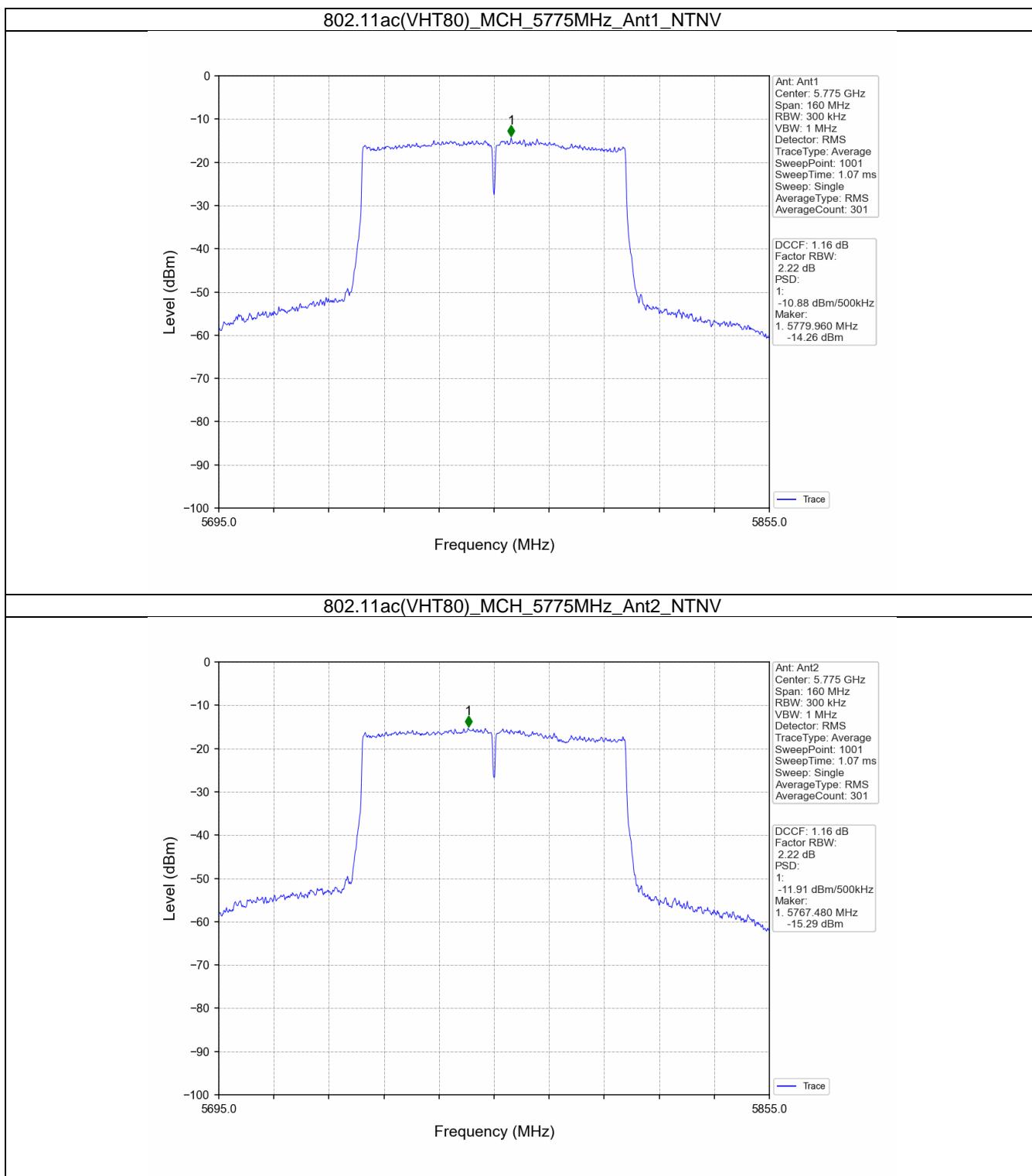
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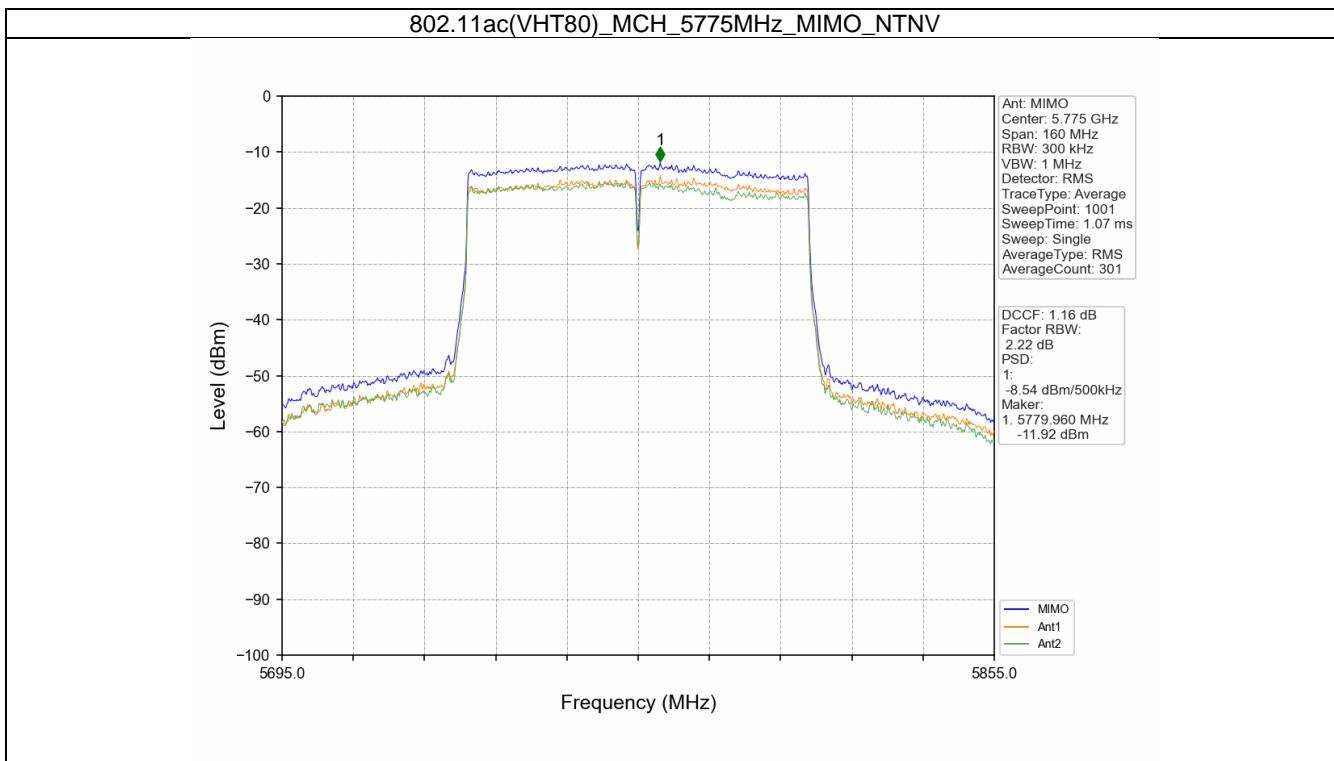
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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5179.920	5150 to 5250	Pass
				120	5179.940	5150 to 5250	Pass
				138	5179.900	5150 to 5250	Pass
			-30	120	5179.940	5150 to 5250	Pass
			-20	120	5179.920	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
			0	120	5179.940	5150 to 5250	Pass
			10	120	5180.020	5150 to 5250	Pass
			30	120	5179.860	5150 to 5250	Pass
			40	120	5179.940	5150 to 5250	Pass
			50	120	5180.000	5150 to 5250	Pass
		5200	20	102	5199.920	5150 to 5250	Pass
				120	5199.880	5150 to 5250	Pass
				138	5199.880	5150 to 5250	Pass
			-30	120	5199.920	5150 to 5250	Pass
			-20	120	5199.980	5150 to 5250	Pass
			-10	120	5199.920	5150 to 5250	Pass
			0	120	5199.960	5150 to 5250	Pass
			10	120	5199.920	5150 to 5250	Pass
			30	120	5199.920	5150 to 5250	Pass
			40	120	5199.980	5150 to 5250	Pass
			50	120	5199.880	5150 to 5250	Pass
		5240	20	102	5239.940	5150 to 5250	Pass
				120	5239.960	5150 to 5250	Pass
				138	5239.900	5150 to 5250	Pass
			-30	120	5239.960	5150 to 5250	Pass
			-20	120	5239.960	5150 to 5250	Pass
			-10	120	5239.980	5150 to 5250	Pass
			0	120	5240.000	5150 to 5250	Pass
			10	120	5239.940	5150 to 5250	Pass
			30	120	5239.900	5150 to 5250	Pass
			40	120	5239.900	5150 to 5250	Pass
			50	120	5239.980	5150 to 5250	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5744.900	5725 to 5850	Pass
				138	5744.940	5725 to 5850	Pass
			-30	120	5744.980	5725 to 5850	Pass
			-20	120	5744.960	5725 to 5850	Pass
			-10	120	5744.920	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5744.940	5725 to 5850	Pass
			30	120	5744.940	5725 to 5850	Pass

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		5785	40	120	5745.020	5725 to 5850	Pass
			50	120	5744.940	5725 to 5850	Pass
			20	102	5784.900	5725 to 5850	Pass
			20	120	5784.920	5725 to 5850	Pass
			20	138	5784.940	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass
			-10	120	5784.900	5725 to 5850	Pass
			0	120	5785.000	5725 to 5850	Pass
			10	120	5784.940	5725 to 5850	Pass
			30	120	5784.920	5725 to 5850	Pass
			40	120	5784.940	5725 to 5850	Pass
			50	120	5784.920	5725 to 5850	Pass
		5825	20	102	5824.940	5725 to 5850	Pass
			20	120	5825.060	5725 to 5850	Pass
			20	138	5824.920	5725 to 5850	Pass
			-30	120	5824.960	5725 to 5850	Pass
			-20	120	5824.900	5725 to 5850	Pass
			-10	120	5824.900	5725 to 5850	Pass
			0	120	5824.900	5725 to 5850	Pass
			10	120	5824.900	5725 to 5850	Pass
			30	120	5825.040	5725 to 5850	Pass
			40	120	5824.960	5725 to 5850	Pass
			50	120	5824.900	5725 to 5850	Pass
802.11n (HT20)	MIMO	5180	20	102	5179.940	5150 to 5250	Pass
			20	120	5179.960	5150 to 5250	Pass
			20	138	5179.940	5150 to 5250	Pass
			-30	120	5179.960	5150 to 5250	Pass
			-20	120	5180.000	5150 to 5250	Pass
			-10	120	5179.920	5150 to 5250	Pass
			0	120	5179.980	5150 to 5250	Pass
			10	120	5180.020	5150 to 5250	Pass
			30	120	5179.960	5150 to 5250	Pass
			40	120	5179.940	5150 to 5250	Pass
			50	120	5179.960	5150 to 5250	Pass
		5200	20	102	5199.980	5150 to 5250	Pass
			20	120	5200.000	5150 to 5250	Pass
			20	138	5200.000	5150 to 5250	Pass
			-30	120	5199.940	5150 to 5250	Pass
			-20	120	5199.900	5150 to 5250	Pass
			-10	120	5199.920	5150 to 5250	Pass
			0	120	5200.000	5150 to 5250	Pass
			10	120	5199.980	5150 to 5250	Pass
			30	120	5199.920	5150 to 5250	Pass
			40	120	5200.000	5150 to 5250	Pass
			50	120	5199.980	5150 to 5250	Pass
		5240	20	102	5239.960	5150 to 5250	Pass
			20	120	5239.920	5150 to 5250	Pass
			20	138	5240.000	5150 to 5250	Pass
			-30	120	5239.900	5150 to 5250	Pass
			-20	120	5239.940	5150 to 5250	Pass
			-10	120	5239.920	5150 to 5250	Pass

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			0	120	5240.000	5150 to 5250	Pass
			10	120	5239.960	5150 to 5250	Pass
			30	120	5239.920	5150 to 5250	Pass
			40	120	5240.040	5150 to 5250	Pass
			50	120	5239.960	5150 to 5250	Pass
		5745	20	102	5744.980	5725 to 5850	Pass
				120	5744.960	5725 to 5850	Pass
				138	5745.000	5725 to 5850	Pass
			-30	120	5744.980	5725 to 5850	Pass
			-20	120	5744.960	5725 to 5850	Pass
			-10	120	5744.940	5725 to 5850	Pass
			0	120	5745.040	5725 to 5850	Pass
			10	120	5744.940	5725 to 5850	Pass
			30	120	5744.940	5725 to 5850	Pass
			40	120	5744.940	5725 to 5850	Pass
		5785	50	120	5744.980	5725 to 5850	Pass
			20	102	5784.920	5725 to 5850	Pass
				120	5784.980	5725 to 5850	Pass
				138	5784.920	5725 to 5850	Pass
			-30	120	5784.900	5725 to 5850	Pass
			-20	120	5784.940	5725 to 5850	Pass
			-10	120	5784.940	5725 to 5850	Pass
			0	120	5784.940	5725 to 5850	Pass
			10	120	5784.940	5725 to 5850	Pass
			30	120	5784.900	5725 to 5850	Pass
		5825	40	120	5784.980	5725 to 5850	Pass
			50	120	5784.980	5725 to 5850	Pass
			20	102	5825.020	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5824.920	5725 to 5850	Pass
			-30	120	5825.000	5725 to 5850	Pass
			-20	120	5824.940	5725 to 5850	Pass
			-10	120	5825.000	5725 to 5850	Pass
			0	120	5824.980	5725 to 5850	Pass
			10	120	5825.020	5725 to 5850	Pass
		5190	30	120	5825.000	5725 to 5850	Pass
			40	120	5824.960	5725 to 5850	Pass
			50	120	5824.980	5725 to 5850	Pass
			20	102	5189.960	5150 to 5250	Pass
				120	5189.960	5150 to 5250	Pass
				138	5189.960	5150 to 5250	Pass
			-30	120	5189.920	5150 to 5250	Pass
			-20	120	5189.920	5150 to 5250	Pass
			-10	120	5189.960	5150 to 5250	Pass
			0	120	5189.920	5150 to 5250	Pass
		5230	10	120	5189.960	5150 to 5250	Pass
			30	120	5189.960	5150 to 5250	Pass
			40	120	5189.880	5150 to 5250	Pass
			50	120	5189.960	5150 to 5250	Pass
			20	102	5229.880	5150 to 5250	Pass
				120	5229.960	5150 to 5250	Pass
				138	5229.960	5150 to 5250	Pass

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			-30	120	5229.960	5150 to 5250	Pass
			-20	120	5229.920	5150 to 5250	Pass
			-10	120	5229.960	5150 to 5250	Pass
			0	120	5229.960	5150 to 5250	Pass
			10	120	5229.960	5150 to 5250	Pass
			30	120	5229.920	5150 to 5250	Pass
			40	120	5229.920	5150 to 5250	Pass
			50	120	5230.040	5150 to 5250	Pass
		5755		102	5754.960	5725 to 5850	Pass
			20	120	5754.960	5725 to 5850	Pass
				138	5754.920	5725 to 5850	Pass
			-30	120	5754.920	5725 to 5850	Pass
			-20	120	5754.920	5725 to 5850	Pass
			-10	120	5754.960	5725 to 5850	Pass
			0	120	5755.000	5725 to 5850	Pass
			10	120	5754.920	5725 to 5850	Pass
			30	120	5754.920	5725 to 5850	Pass
			40	120	5754.960	5725 to 5850	Pass
		5795		50	5754.880	5725 to 5850	Pass
			20	102	5794.960	5725 to 5850	Pass
				120	5794.960	5725 to 5850	Pass
				138	5794.880	5725 to 5850	Pass
			-30	120	5794.880	5725 to 5850	Pass
			-20	120	5794.920	5725 to 5850	Pass
			-10	120	5794.920	5725 to 5850	Pass
			0	120	5794.920	5725 to 5850	Pass
			10	120	5794.920	5725 to 5850	Pass
			30	120	5794.920	5725 to 5850	Pass
		5180		40	5794.880	5725 to 5850	Pass
				50	5794.880	5725 to 5850	Pass
			20	102	5179.960	5150 to 5250	Pass
				120	5179.980	5150 to 5250	Pass
				138	5180.000	5150 to 5250	Pass
			-30	120	5180.000	5150 to 5250	Pass
			-20	120	5179.900	5150 to 5250	Pass
			-10	120	5179.980	5150 to 5250	Pass
			0	120	5179.980	5150 to 5250	Pass
			10	120	5179.980	5150 to 5250	Pass
		5200		30	5179.960	5150 to 5250	Pass
				40	5179.960	5150 to 5250	Pass
				50	5179.980	5150 to 5250	Pass
			20	102	5199.980	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				138	5199.920	5150 to 5250	Pass
			-30	120	5200.020	5150 to 5250	Pass
			-20	120	5199.980	5150 to 5250	Pass
			-10	120	5200.000	5150 to 5250	Pass
			0	120	5199.920	5150 to 5250	Pass
			10	120	5200.000	5150 to 5250	Pass
			30	120	5200.020	5150 to 5250	Pass
			40	120	5200.040	5150 to 5250	Pass
			50	120	5199.980	5150 to 5250	Pass

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			5240	20	102	5239.900	5150 to 5250	Pass	
					120	5239.920	5150 to 5250	Pass	
					138	5239.940	5150 to 5250	Pass	
					-30	5239.980	5150 to 5250	Pass	
					-20	5239.940	5150 to 5250	Pass	
				20	-10	5239.960	5150 to 5250	Pass	
					0	5239.980	5150 to 5250	Pass	
					10	5240.020	5150 to 5250	Pass	
					30	5239.900	5150 to 5250	Pass	
					40	5239.940	5150 to 5250	Pass	
			5745		50	5239.940	5150 to 5250	Pass	
			20	102	5744.980	5725 to 5850	Pass		
				120	5744.980	5725 to 5850	Pass		
				138	5744.920	5725 to 5850	Pass		
			20	-30	5744.940	5725 to 5850	Pass		
				-20	5744.900	5725 to 5850	Pass		
				-10	5744.960	5725 to 5850	Pass		
				0	5744.960	5725 to 5850	Pass		
				10	5745.000	5725 to 5850	Pass		
			5785	20	30	5745.020	5725 to 5850	Pass	
					40	5744.940	5725 to 5850	Pass	
					50	5744.940	5725 to 5850	Pass	
				20	102	5785.000	5725 to 5850	Pass	
					120	5784.920	5725 to 5850	Pass	
			5825		138	5784.960	5725 to 5850	Pass	
					-30	5784.980	5725 to 5850	Pass	
					-20	5784.960	5725 to 5850	Pass	
					-10	5784.960	5725 to 5850	Pass	
					0	5784.960	5725 to 5850	Pass	
					10	5784.960	5725 to 5850	Pass	
					30	5785.020	5725 to 5850	Pass	
					40	5785.020	5725 to 5850	Pass	
					50	5784.960	5725 to 5850	Pass	
			5190	20	102	5824.920	5725 to 5850	Pass	
					120	5824.920	5725 to 5850	Pass	
					138	5825.020	5725 to 5850	Pass	
					-30	5824.960	5725 to 5850	Pass	
					-20	5824.960	5725 to 5850	Pass	
				20	-10	5824.960	5725 to 5850	Pass	
					0	5825.020	5725 to 5850	Pass	
					10	5824.960	5725 to 5850	Pass	
					30	5824.940	5725 to 5850	Pass	
					40	5824.960	5725 to 5850	Pass	
					50	5824.940	5725 to 5850	Pass	
802.11ac (VHT40)	MIMO			20	102	5189.960	5150 to 5250	Pass	
					120	5189.960	5150 to 5250	Pass	
					138	5190.040	5150 to 5250	Pass	
					-30	5189.920	5150 to 5250	Pass	
					-20	5189.960	5150 to 5250	Pass	
				20	-10	5189.960	5150 to 5250	Pass	
					0	5189.960	5150 to 5250	Pass	
					10	5189.960	5150 to 5250	Pass	

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			30	120	5189.960	5150 to 5250	Pass
			40	120	5189.920	5150 to 5250	Pass
			50	120	5189.960	5150 to 5250	Pass
			5230	102	5229.880	5150 to 5250	Pass
				20	5230.000	5150 to 5250	Pass
				138	5229.960	5150 to 5250	Pass
				-30	5229.960	5150 to 5250	Pass
				-20	5229.960	5150 to 5250	Pass
				-10	5229.880	5150 to 5250	Pass
				0	5230.000	5150 to 5250	Pass
				10	5229.880	5150 to 5250	Pass
				30	5229.880	5150 to 5250	Pass
				40	5229.920	5150 to 5250	Pass
				50	5229.960	5150 to 5250	Pass
			5755	102	5754.960	5725 to 5850	Pass
				20	5755.000	5725 to 5850	Pass
				138	5754.880	5725 to 5850	Pass
				-30	5754.960	5725 to 5850	Pass
				-20	5754.920	5725 to 5850	Pass
				-10	5755.000	5725 to 5850	Pass
				0	5754.960	5725 to 5850	Pass
				10	5754.960	5725 to 5850	Pass
				30	5754.880	5725 to 5850	Pass
				40	5754.960	5725 to 5850	Pass
				50	5754.920	5725 to 5850	Pass
			5795	102	5794.880	5725 to 5850	Pass
				20	5794.920	5725 to 5850	Pass
				138	5794.880	5725 to 5850	Pass
				-30	5795.000	5725 to 5850	Pass
				-20	5794.960	5725 to 5850	Pass
				-10	5794.920	5725 to 5850	Pass
				0	5794.960	5725 to 5850	Pass
				10	5794.920	5725 to 5850	Pass
				30	5794.880	5725 to 5850	Pass
				40	5794.960	5725 to 5850	Pass
				50	5794.960	5725 to 5850	Pass
802.11ac (VHT80)	MIMO	5210	20	102	5209.925	5150 to 5250	Pass
				120	5209.925	5150 to 5250	Pass
				138	5210.000	5150 to 5250	Pass
				-30	5210.000	5150 to 5250	Pass
				-20	5209.925	5150 to 5250	Pass
				-10	5210.000	5150 to 5250	Pass
				0	5210.000	5150 to 5250	Pass
				10	5210.000	5150 to 5250	Pass
				30	5210.000	5150 to 5250	Pass
				40	5209.925	5150 to 5250	Pass
				50	5210.000	5150 to 5250	Pass
		5775	20	102	5774.925	5725 to 5850	Pass
				120	5775.000	5725 to 5850	Pass
				138	5775.000	5725 to 5850	Pass
				-30	5774.925	5725 to 5850	Pass
				-20	5774.850	5725 to 5850	Pass

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			-10	120	5774.850	5725 to 5850	Pass
			0	120	5774.925	5725 to 5850	Pass
			10	120	5774.925	5725 to 5850	Pass
			30	120	5774.925	5725 to 5850	Pass
			40	120	5775.000	5725 to 5850	Pass
			50	120	5774.925	5725 to 5850	Pass

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