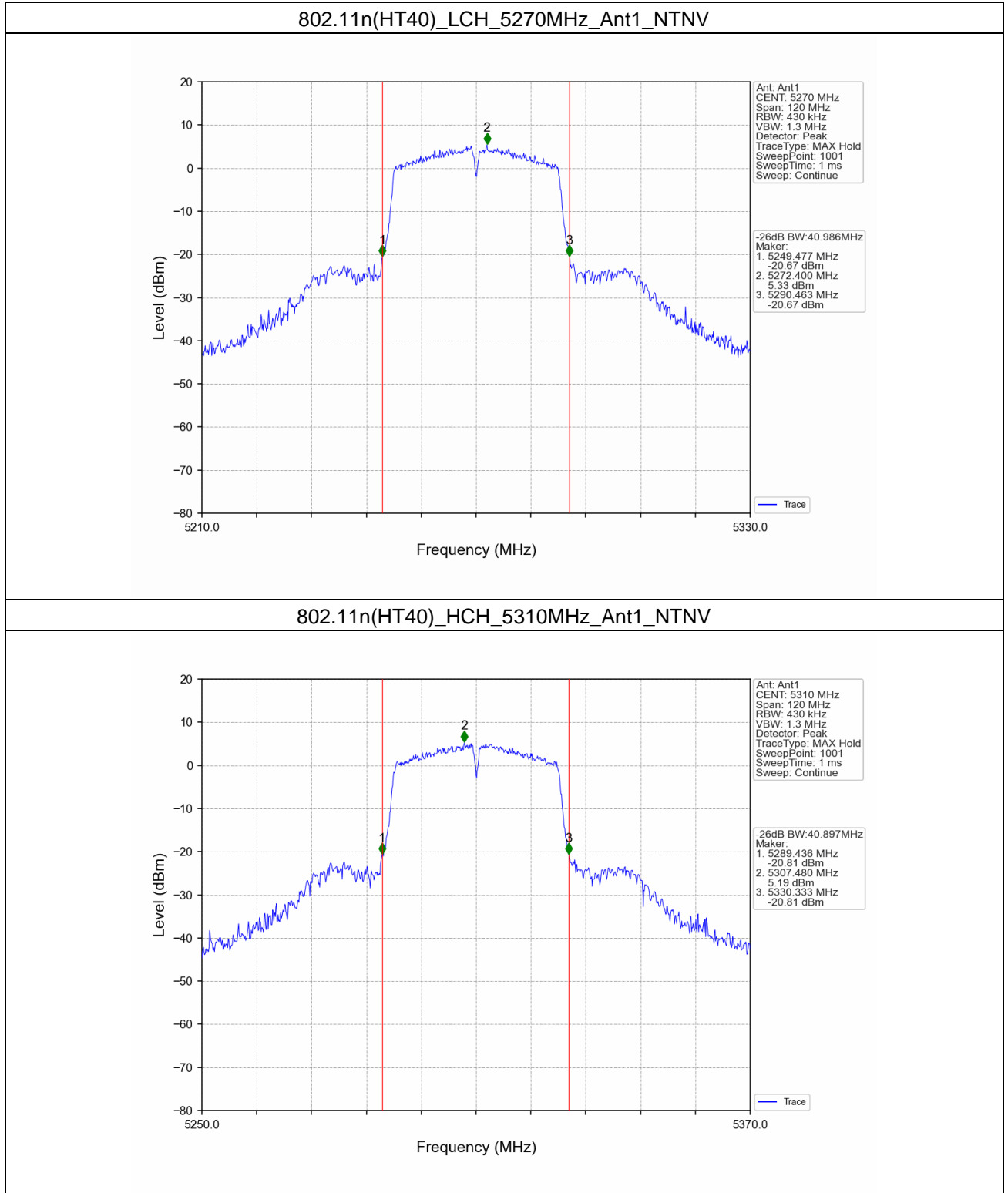
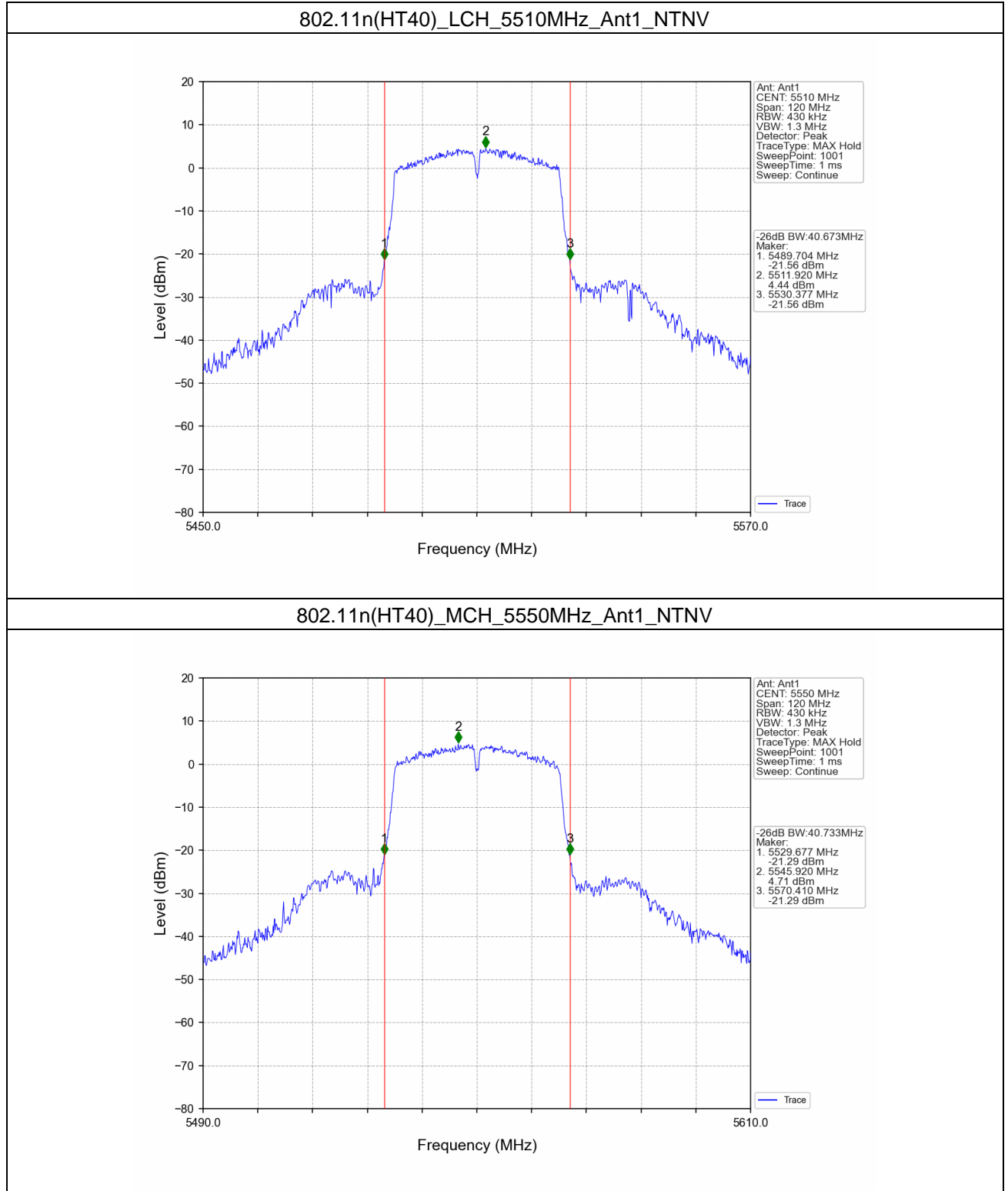


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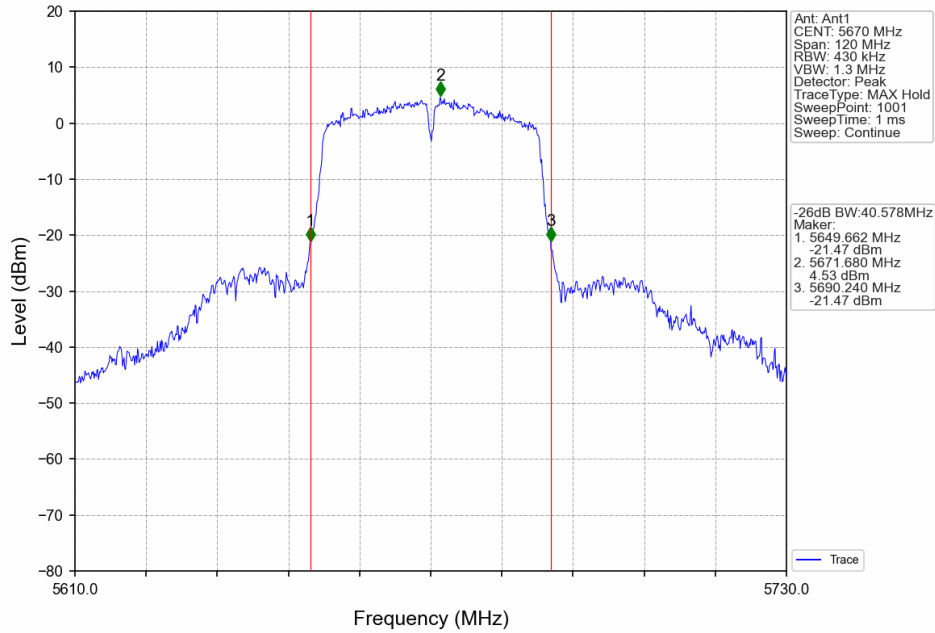


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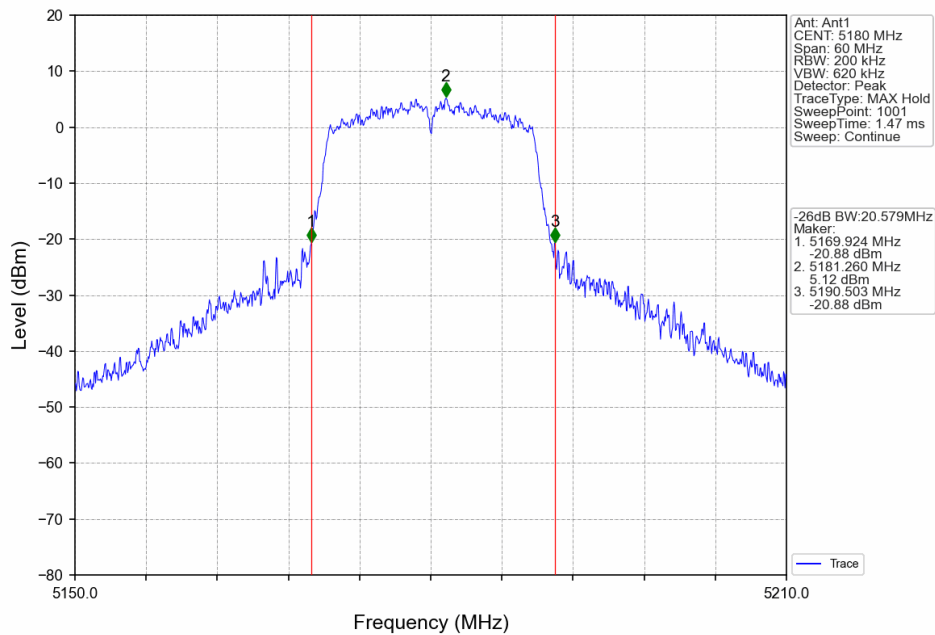


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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV

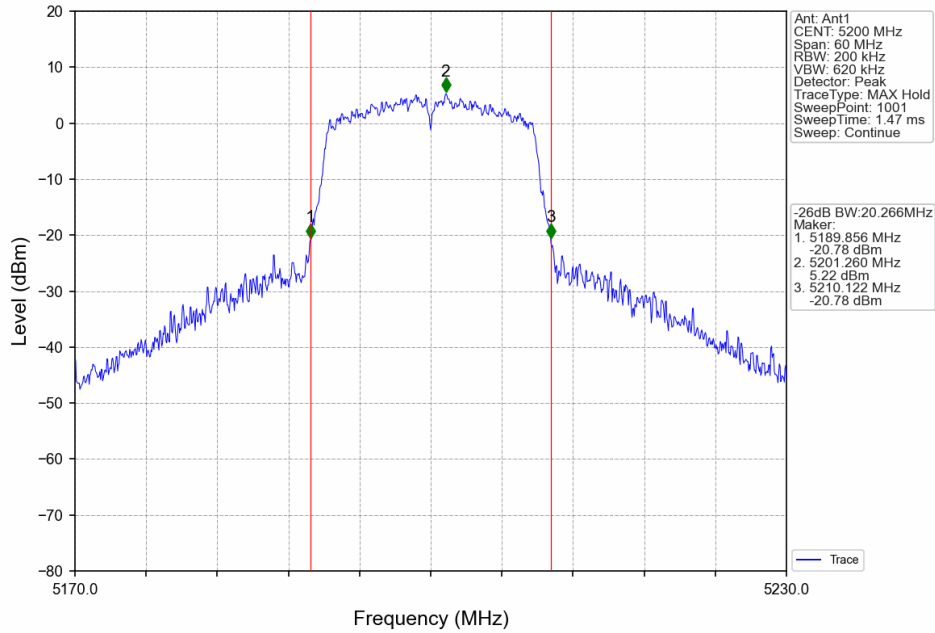


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

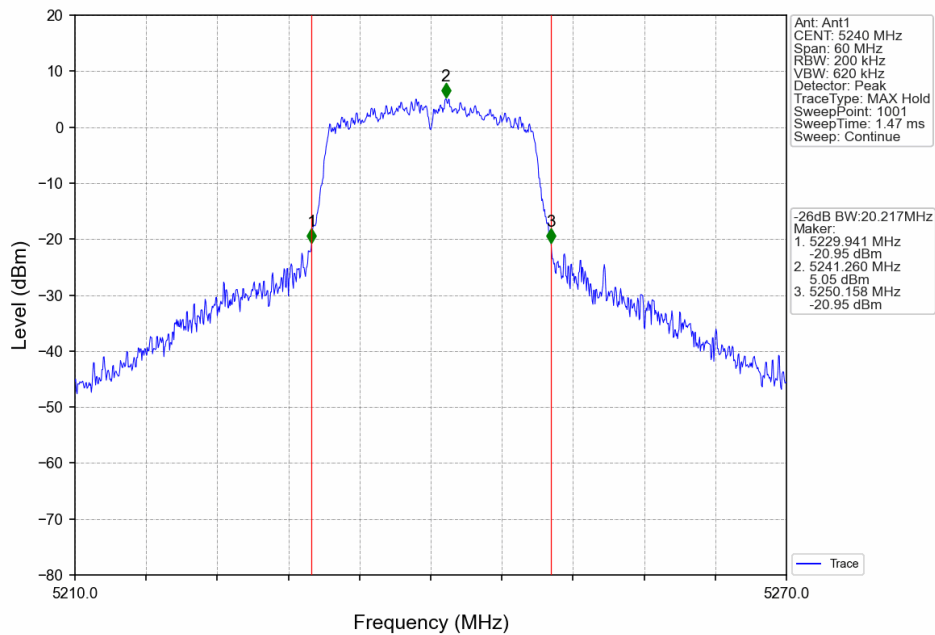


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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

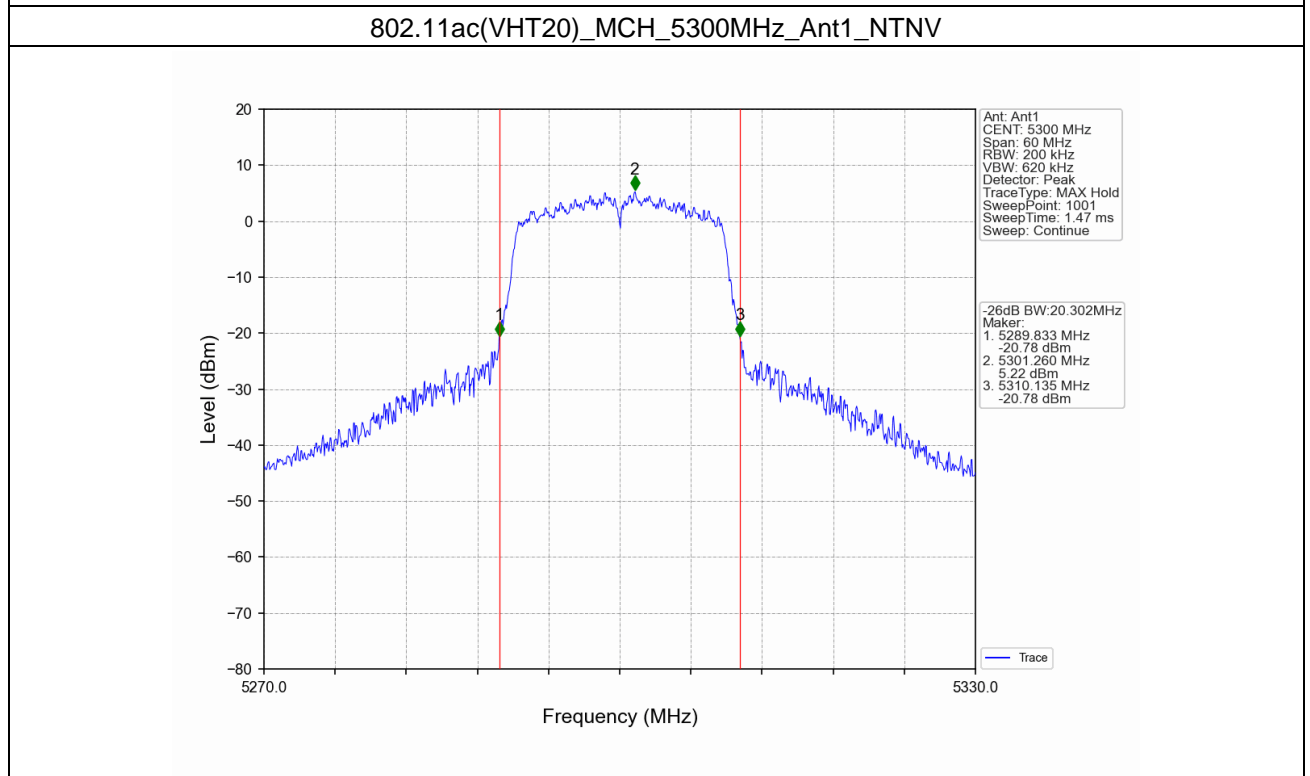
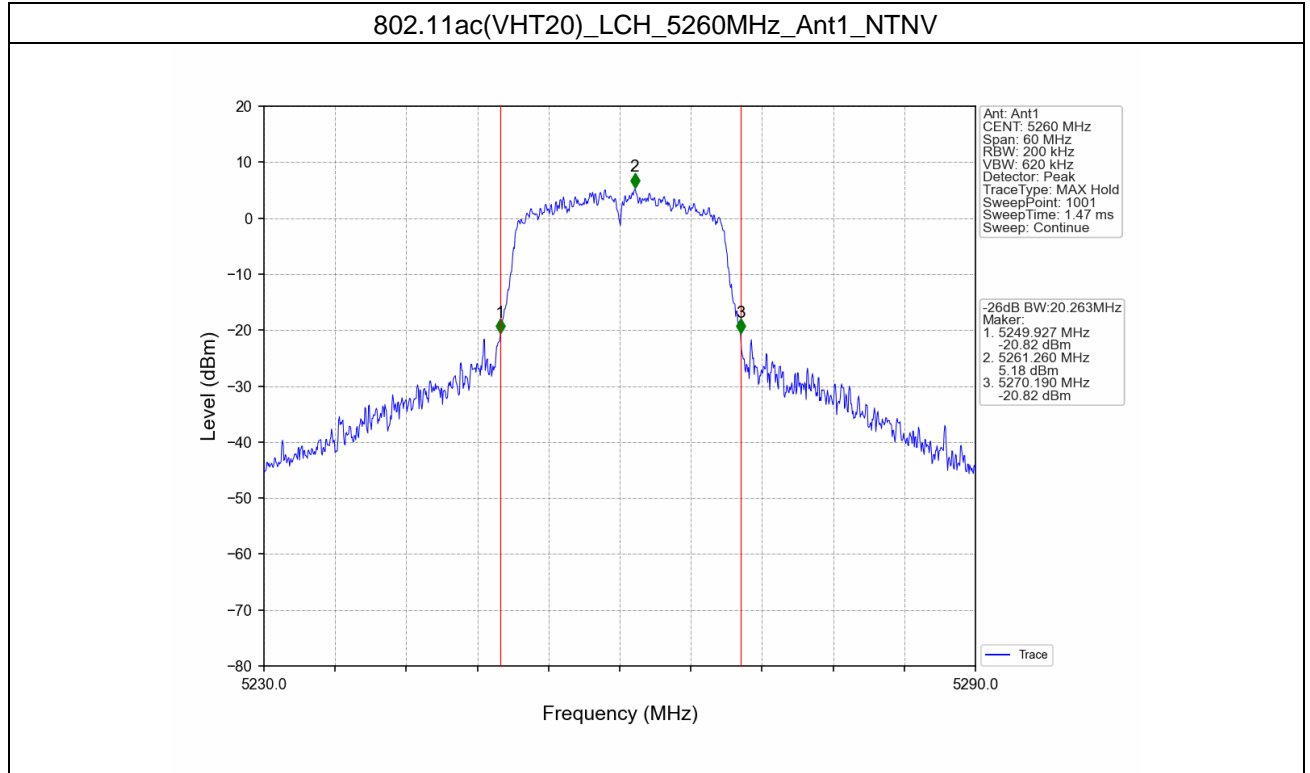


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



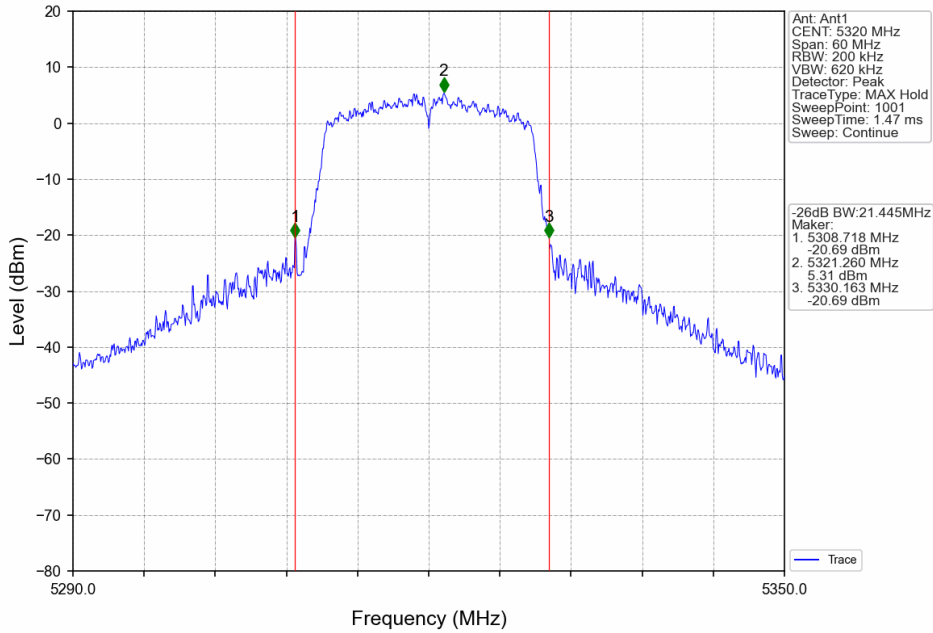
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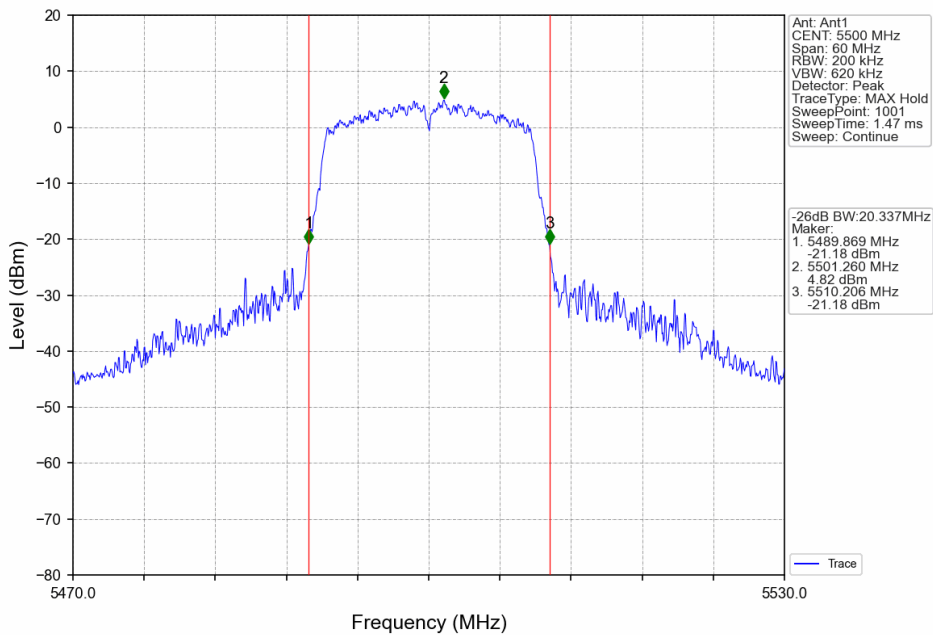


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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



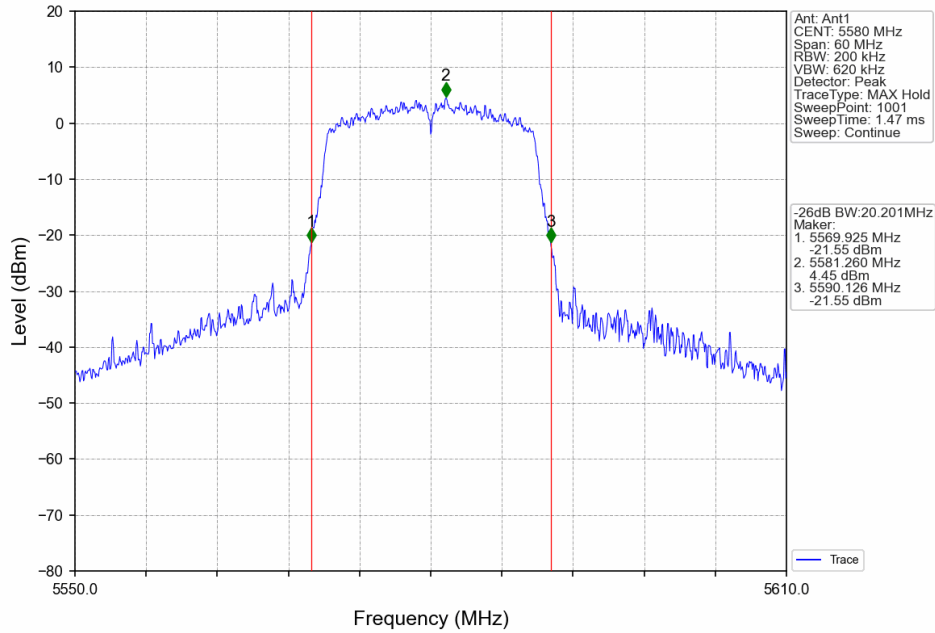
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



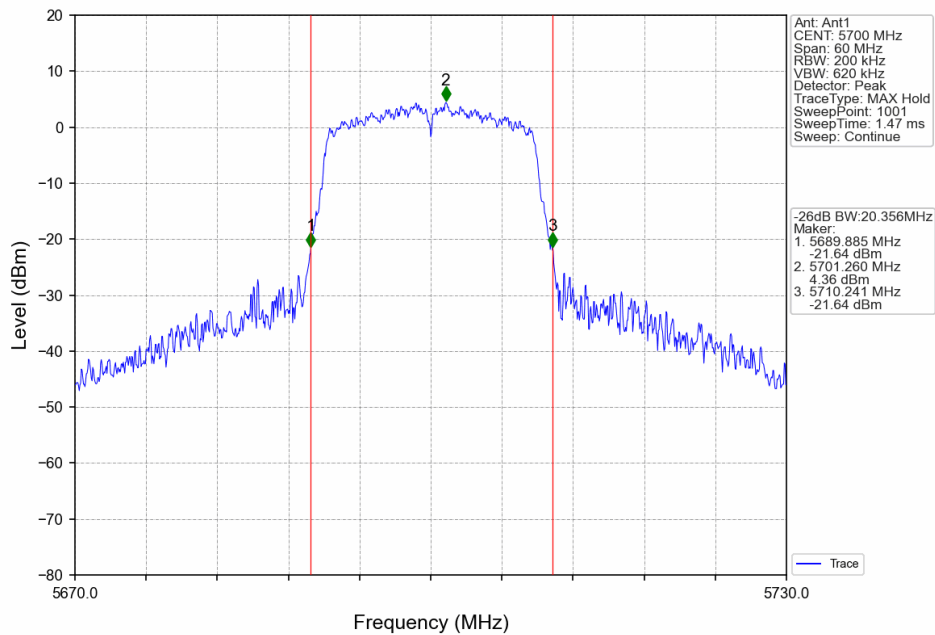
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

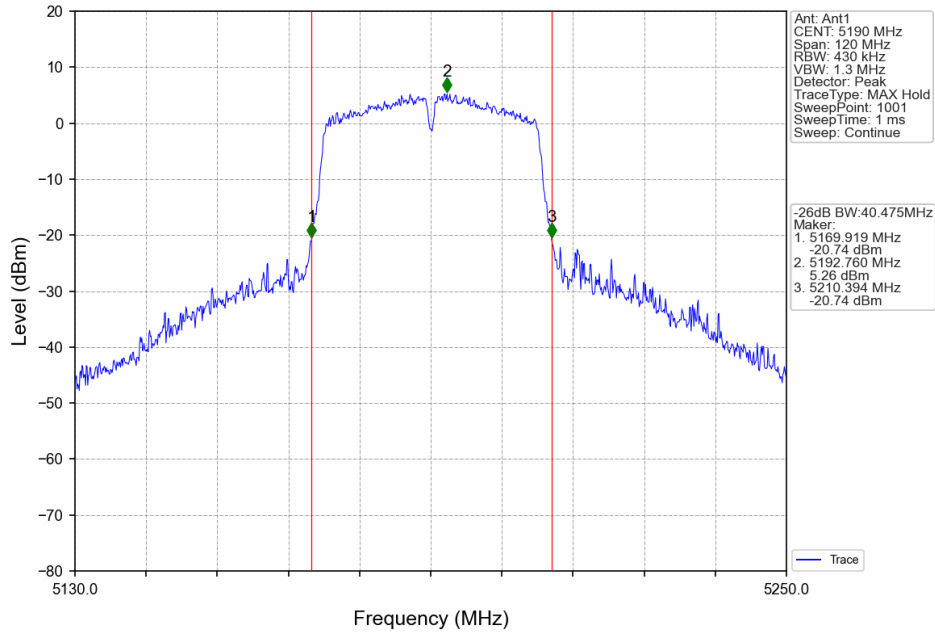


802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

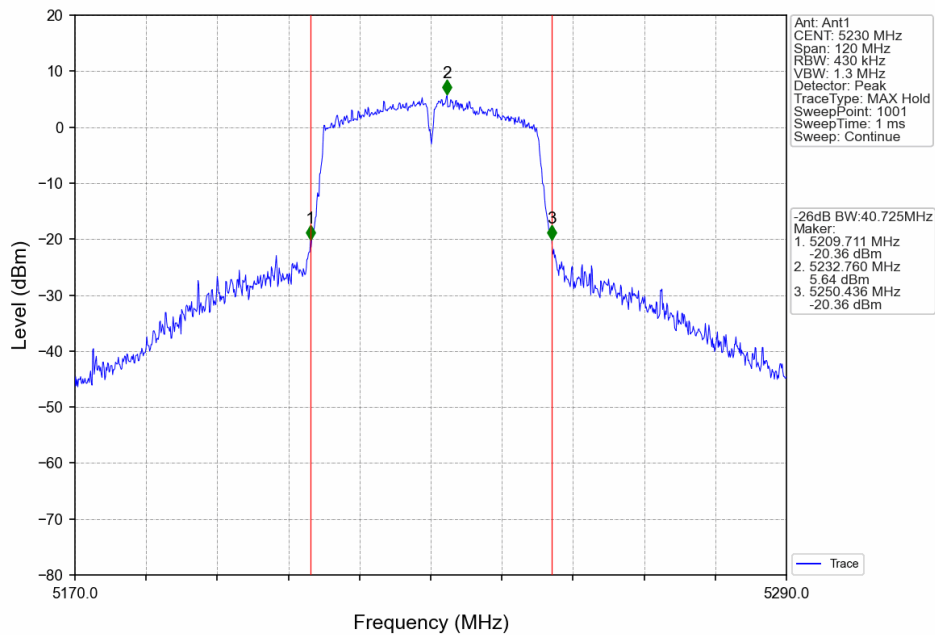


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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



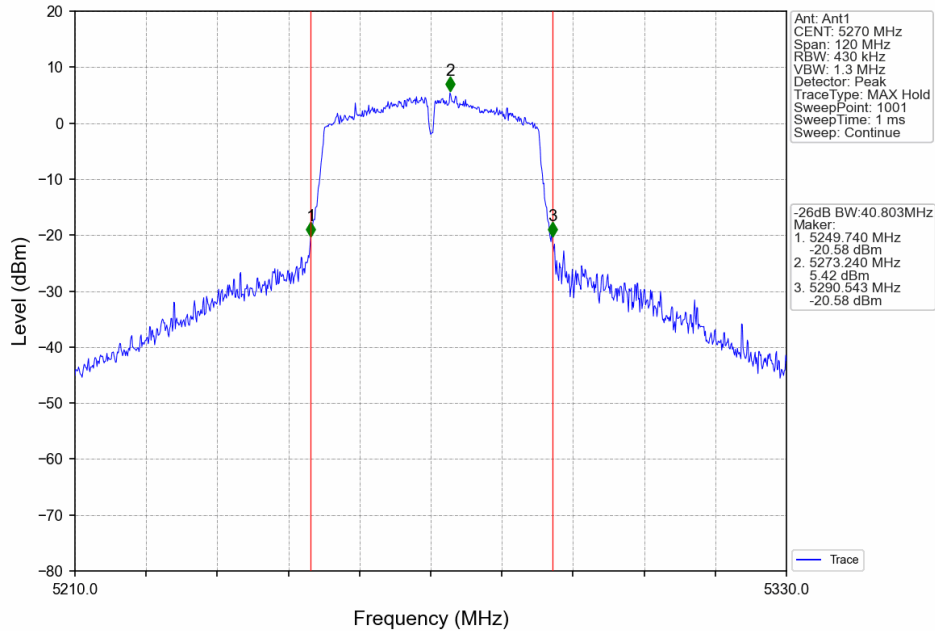
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



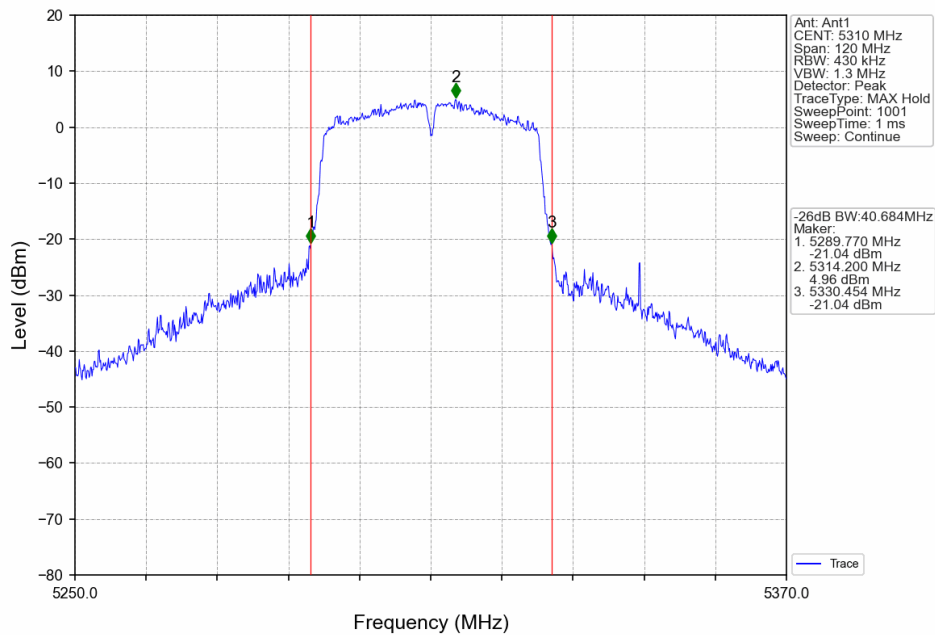
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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



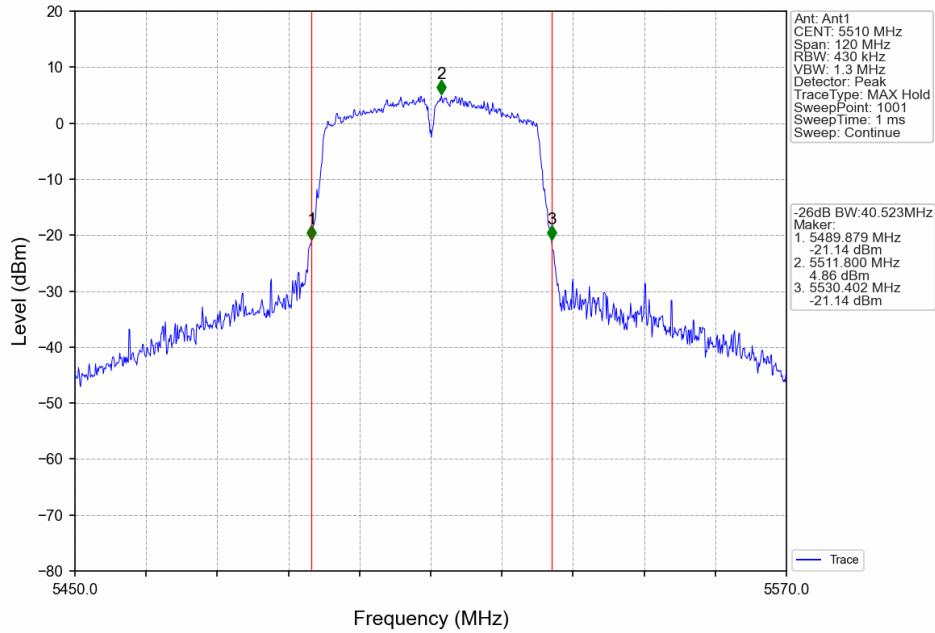
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



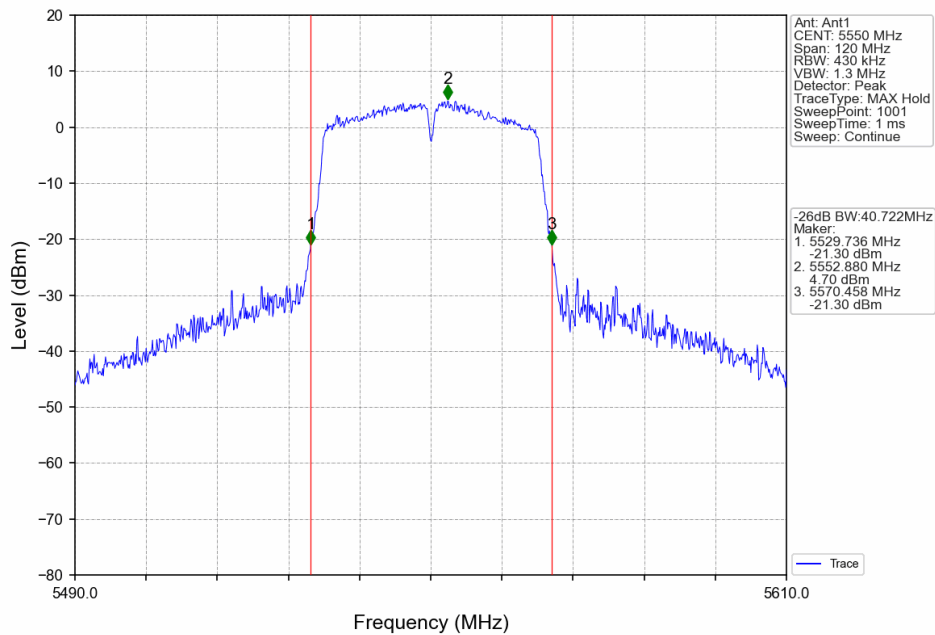
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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV

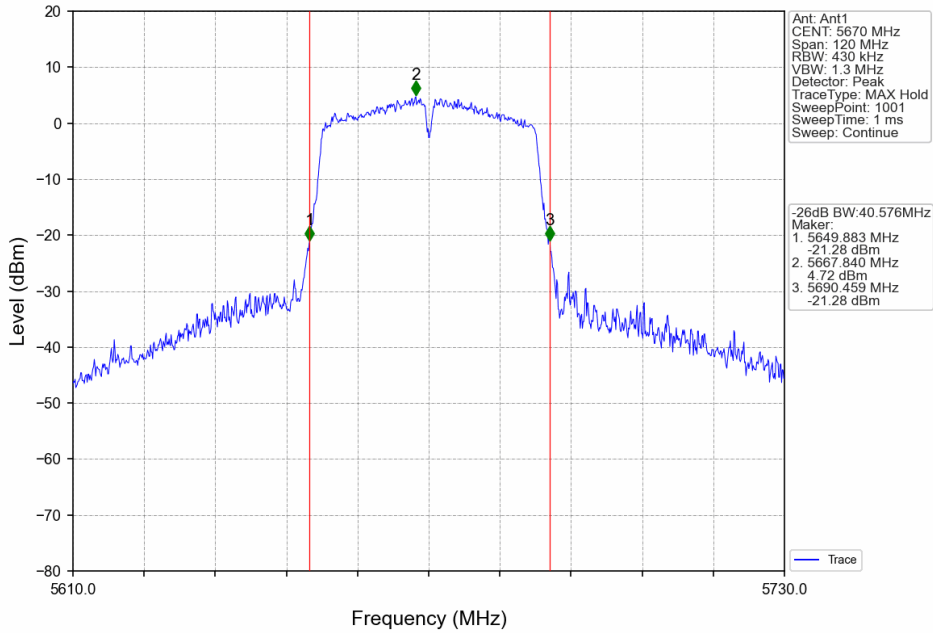


802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

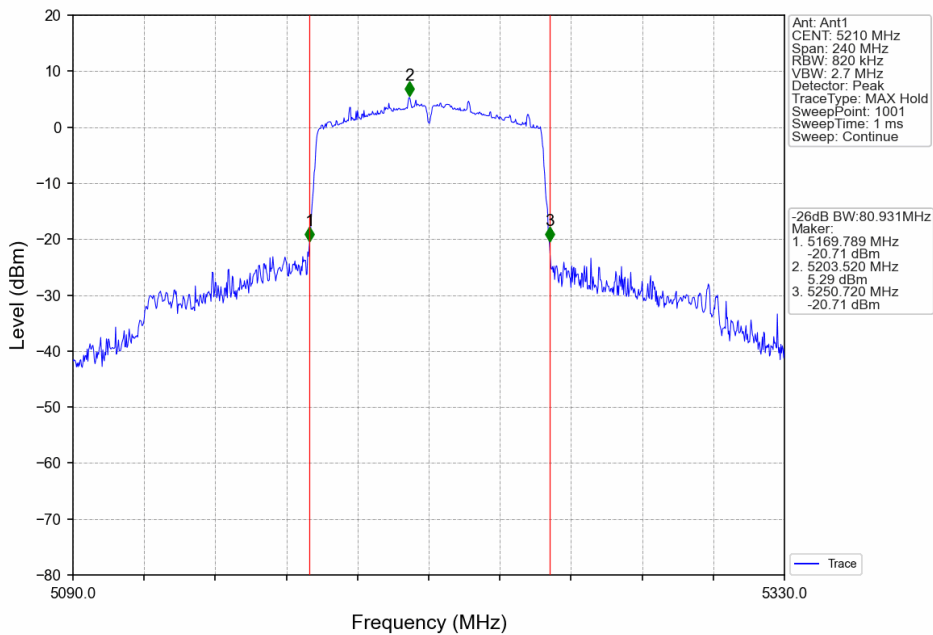


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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



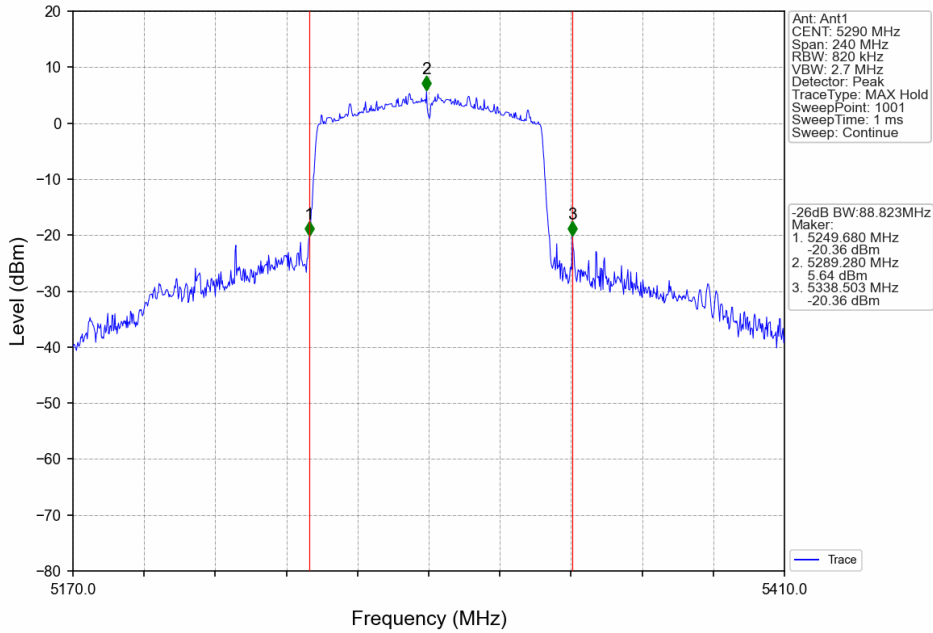
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



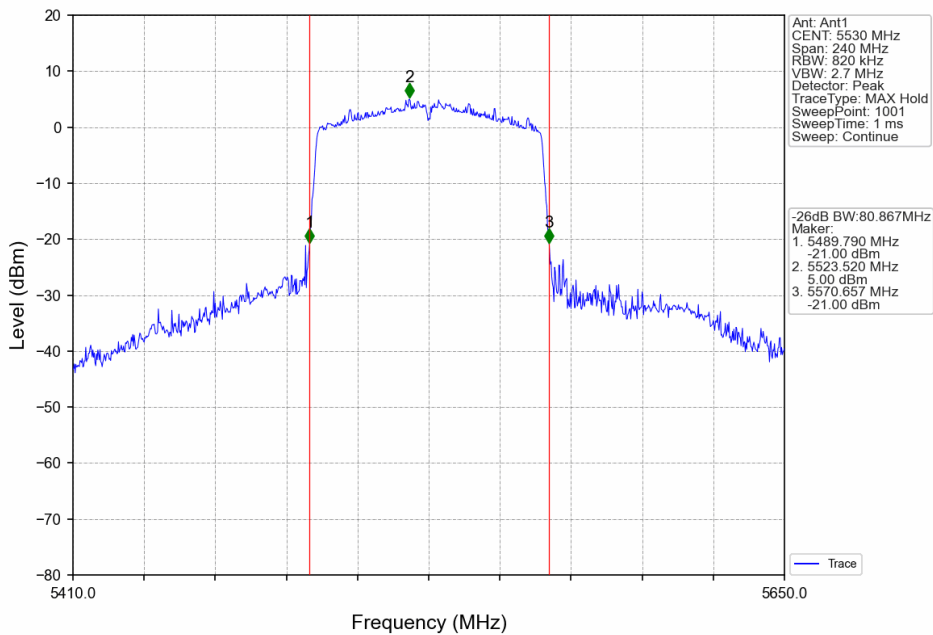
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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

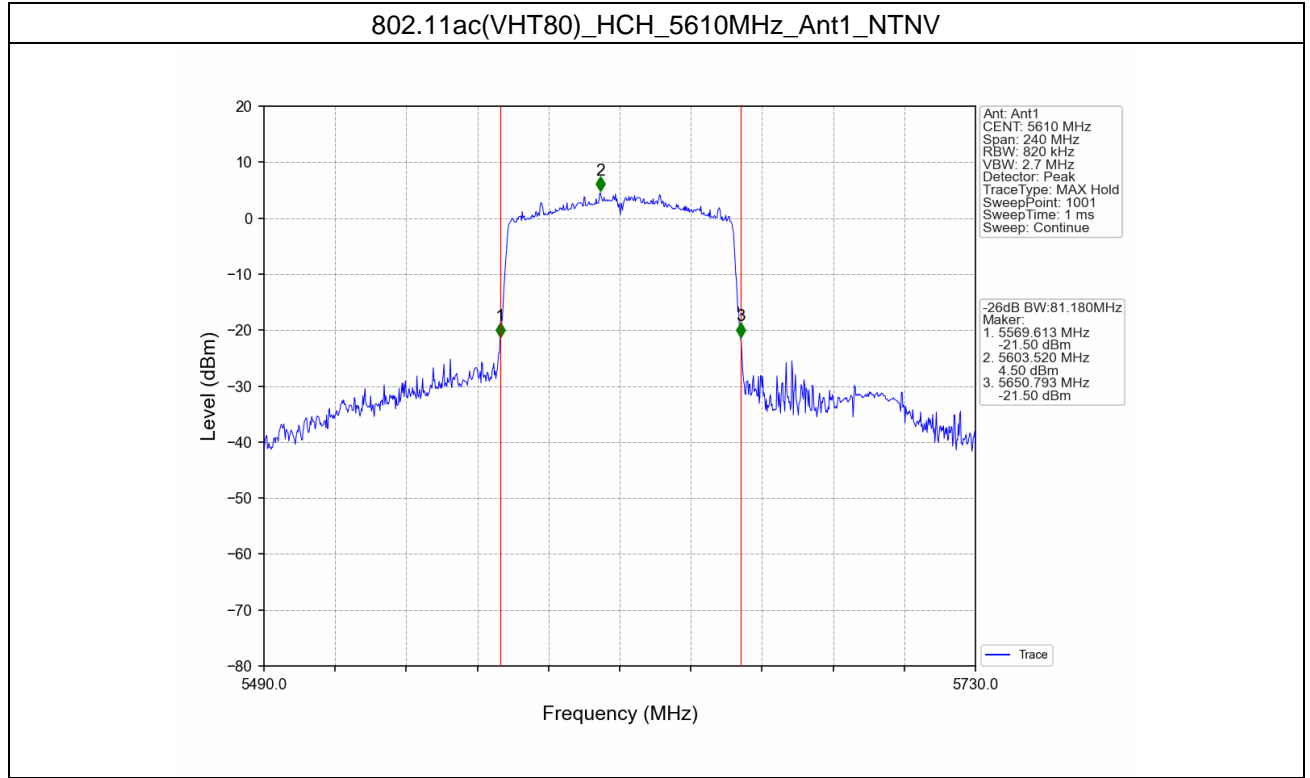


802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	13.06	<=23.98	Pass
		5200	13.2	<=23.98	Pass
		5240	13.17	<=23.98	Pass
		5260	13.16	<=23.98	Pass
		5300	13.39	<=23.98	Pass
		5320	13.39	<=23.98	Pass
		5500	12.82	<=23.98	Pass
		5580	12.54	<=23.98	Pass
		5700	12.53	<=23.98	Pass
		5745	13.1	<=30	Pass
		5785	13.37	<=30	Pass
		5825	13.24	<=30	Pass
802.11n (HT20)	SISO	5180	13.12	<=23.98	Pass
		5200	13.19	<=23.98	Pass
		5240	13.2	<=23.98	Pass
		5260	13.06	<=23.98	Pass
		5300	13.21	<=23.98	Pass
		5320	13.17	<=23.98	Pass
		5500	12.67	<=23.98	Pass
		5580	12.35	<=23.98	Pass
		5700	12.42	<=23.98	Pass
		5745	13.06	<=30	Pass
		5785	13.1	<=30	Pass
		5825	13.1	<=30	Pass
802.11n (HT40)	SISO	5190	12.4	<=23.98	Pass
		5230	12.27	<=23.98	Pass
		5270	12.34	<=23.98	Pass
		5310	12.38	<=23.98	Pass
		5510	11.91	<=23.98	Pass
		5550	11.97	<=23.98	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400138105

Page: 299 of 353

		5670	11.61	<=23.98	Pass
		5755	12.09	<=30	Pass
		5795	12.16	<=30	Pass
802.11ac (VHT20)	SISO	5180	12.02	<=23.98	Pass
		5200	12.13	<=23.98	Pass
		5240	12.11	<=23.98	Pass
		5260	12.13	<=23.98	Pass
		5300	12.13	<=23.98	Pass
		5320	12.27	<=23.98	Pass
		5500	11.79	<=23.98	Pass
		5580	11.37	<=23.98	Pass
		5700	11.38	<=23.98	Pass
		5745	12.06	<=30	Pass
		5785	11.97	<=30	Pass
		5825	11.91	<=30	Pass
		802.11ac (VHT40)	SISO	5190	12.14
5230	12.25			<=23.98	Pass
5270	12.2			<=23.98	Pass
5310	12.22			<=23.98	Pass
5510	11.85			<=23.98	Pass
5550	11.84			<=23.98	Pass
5670	11.67			<=23.98	Pass
5755	12.11			<=30	Pass
5795	12.13	<=30	Pass		
802.11ac (VHT80)	SISO	5210	12.21	<=23.98	Pass
		5290	12.09	<=23.98	Pass
		5530	11.92	<=23.98	Pass
		5610	11.68	<=23.98	Pass
		5775	12.16	<=30	Pass

Note1: Antenna Gain: Ant1: 0.80dBi;



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	4.73	<=11	Pass
		5200	4.96	<=11	Pass
		5240	4.79	<=11	Pass
		5260	4.92	<=11	Pass
		5300	5.22	<=11	Pass
		5320	5.07	<=11	Pass
		5500	4.46	<=11	Pass
		5580	4.28	<=11	Pass
802.11n (HT20)	SISO	5180	4.71	<=11	Pass
		5200	4.75	<=11	Pass
		5240	4.71	<=11	Pass
		5260	4.56	<=11	Pass
		5300	4.69	<=11	Pass
		5320	4.67	<=11	Pass
		5500	4.36	<=11	Pass
		5580	4.03	<=11	Pass
802.11n (HT40)	SISO	5190	1.03	<=11	Pass
		5230	0.96	<=11	Pass
		5270	0.98	<=11	Pass
		5310	0.97	<=11	Pass
		5510	0.67	<=11	Pass
		5550	0.59	<=11	Pass
		5670	0.41	<=11	Pass
802.11ac (VHT20)	SISO	5180	3.62	<=11	Pass
		5200	3.66	<=11	Pass
		5240	3.79	<=11	Pass
		5260	3.66	<=11	Pass
		5300	3.65	<=11	Pass
		5320	3.77	<=11	Pass



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400138105

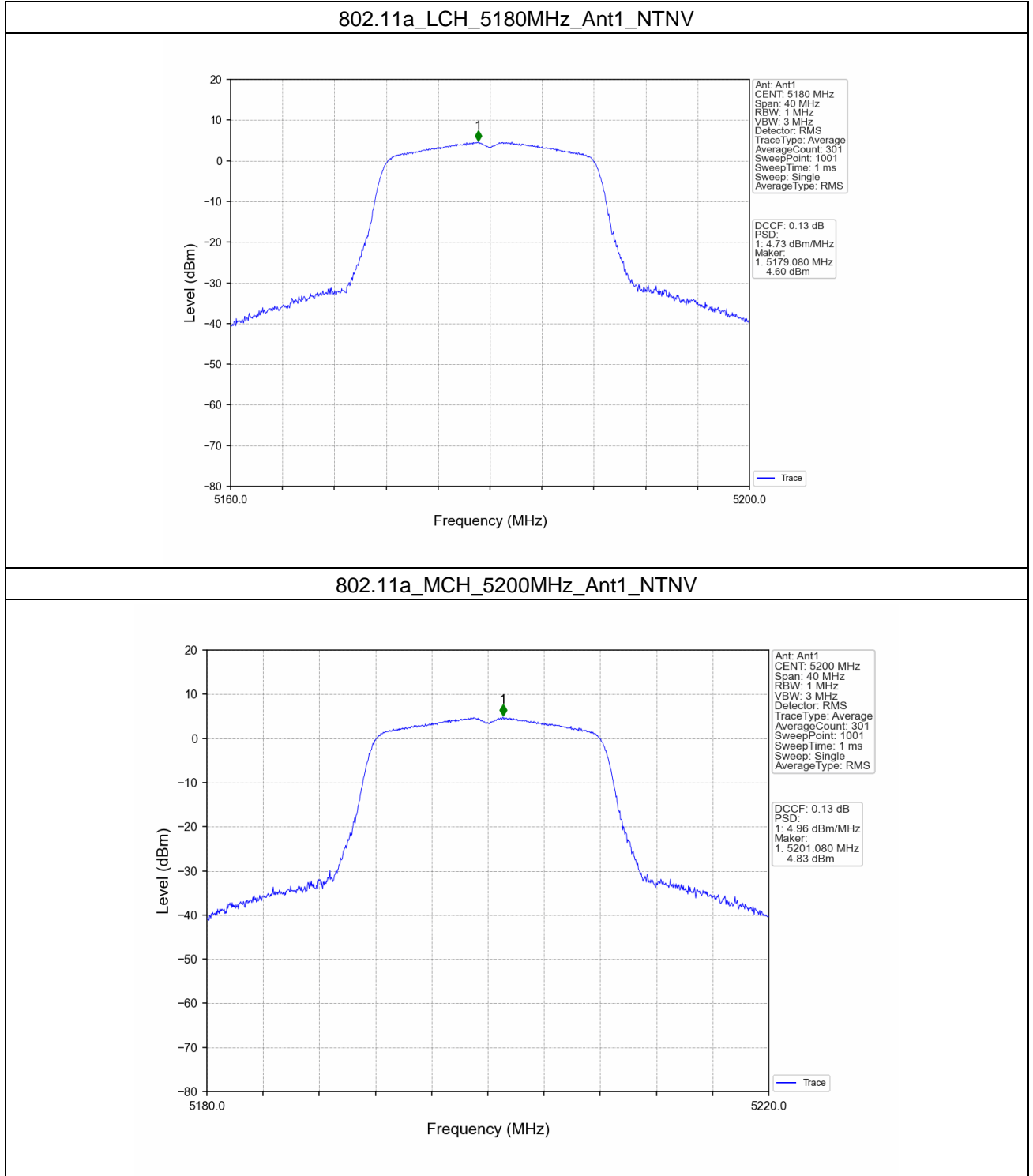
Page: 301 of 353

		5500	3.40	<=11	Pass
		5580	3.03	<=11	Pass
		5700	3.03	<=11	Pass
802.11ac (VHT40)	SISO	5190	0.78	<=11	Pass
		5230	0.85	<=11	Pass
		5270	0.92	<=11	Pass
		5310	0.92	<=11	Pass
		5510	0.49	<=11	Pass
		5550	0.35	<=11	Pass
		5670	0.31	<=11	Pass
802.11ac (VHT80)	SISO	5210	-2.26	<=11	Pass
		5290	-2.41	<=11	Pass
		5530	-2.62	<=11	Pass
		5610	-2.79	<=11	Pass

Note1: Antenna Gain: Ant1: 0.80dBi;

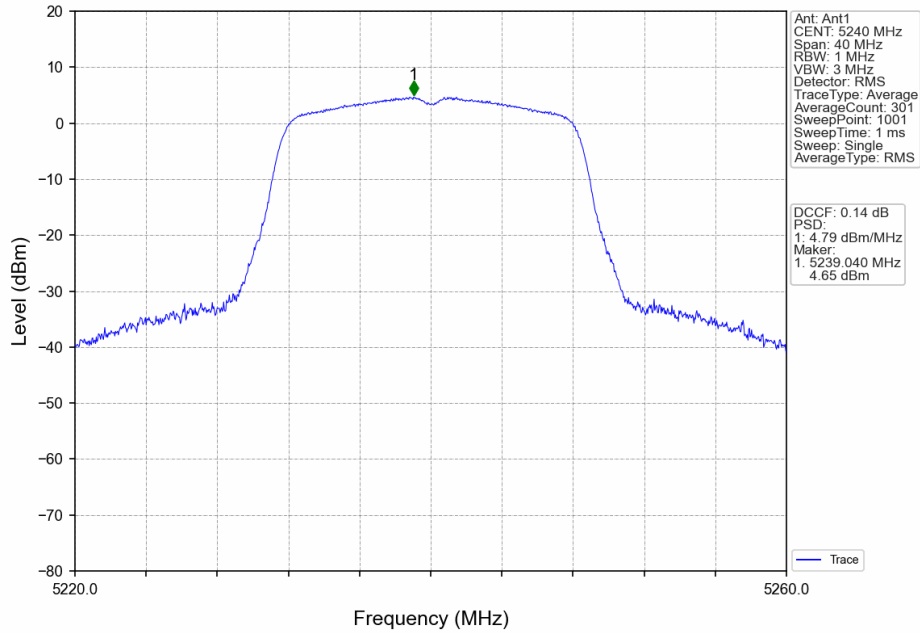


4.1.2 Test Graph

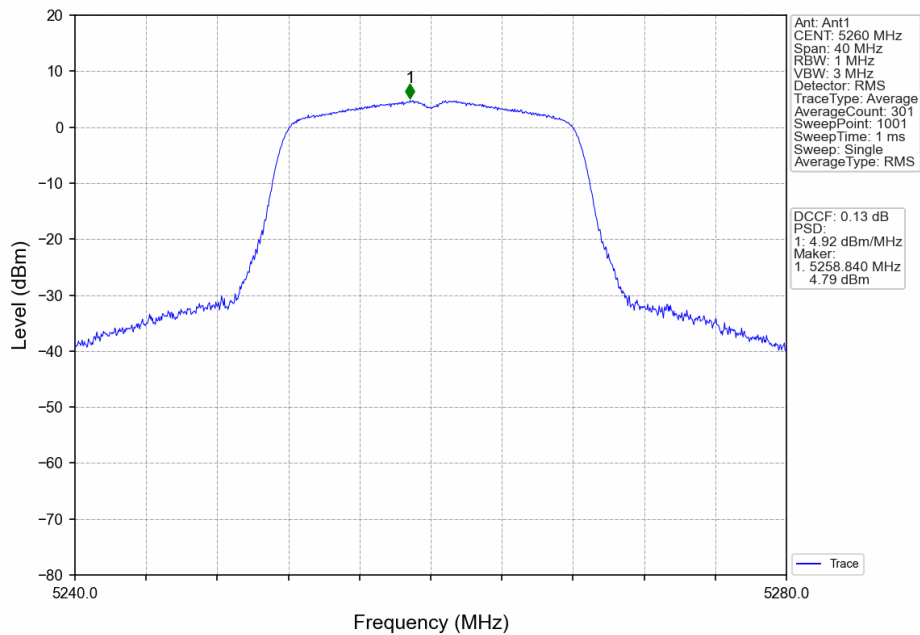


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802.11a_HCH_5240MHz_Ant1_NTNV



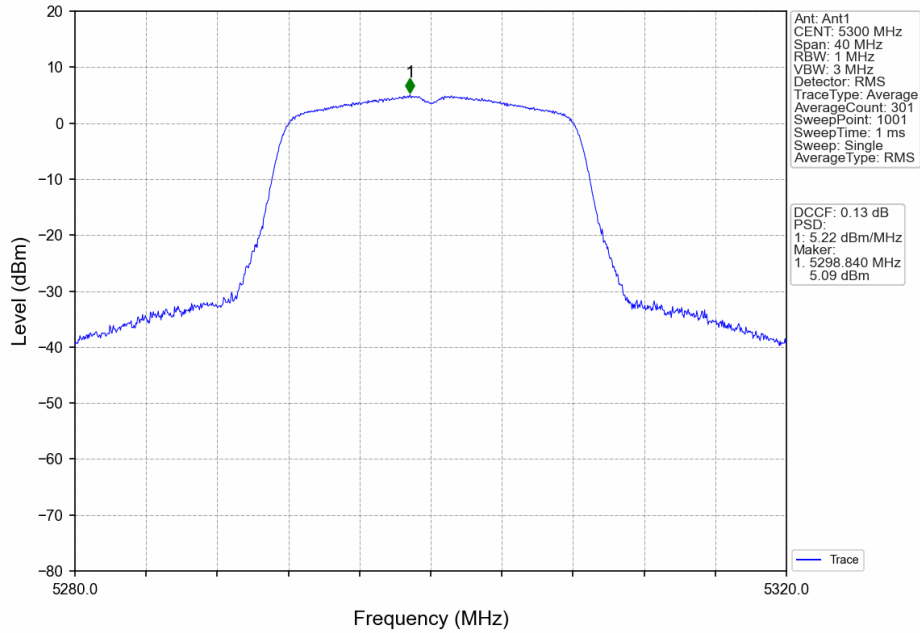
802.11a_LCH_5260MHz_Ant1_NTNV



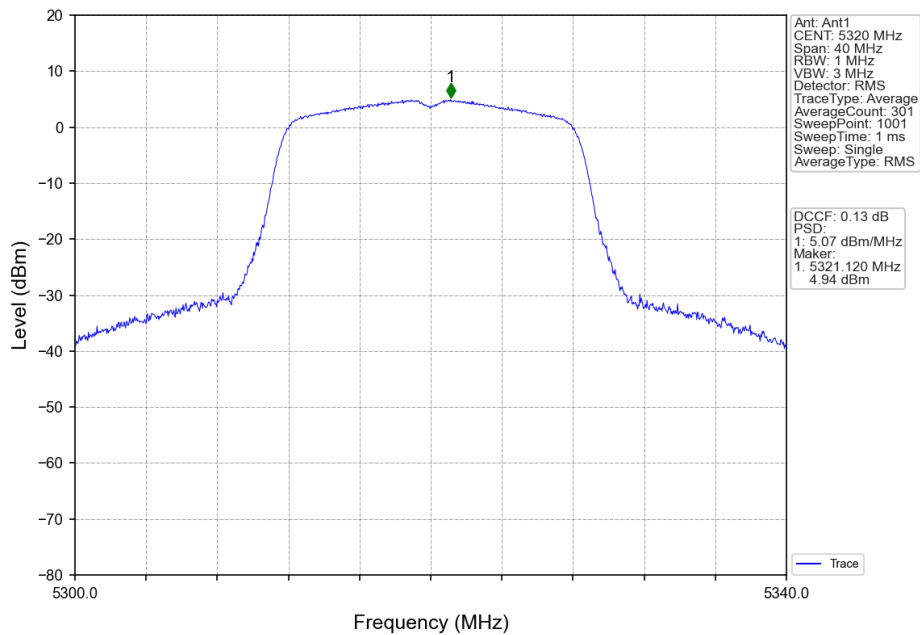
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802.11a_MCH_5300MHz_Ant1_NTNV

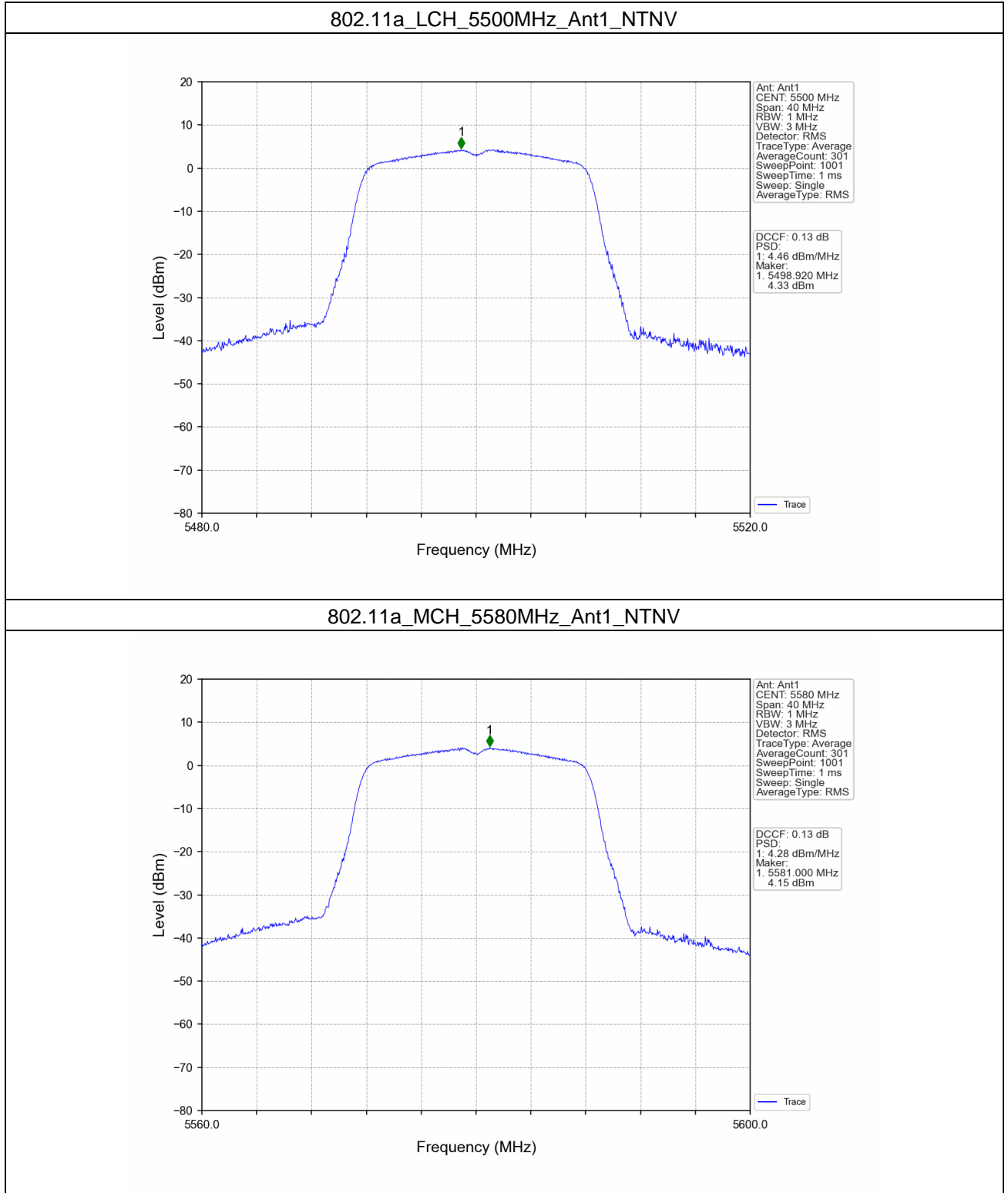


802.11a_HCH_5320MHz_Ant1_NTNV



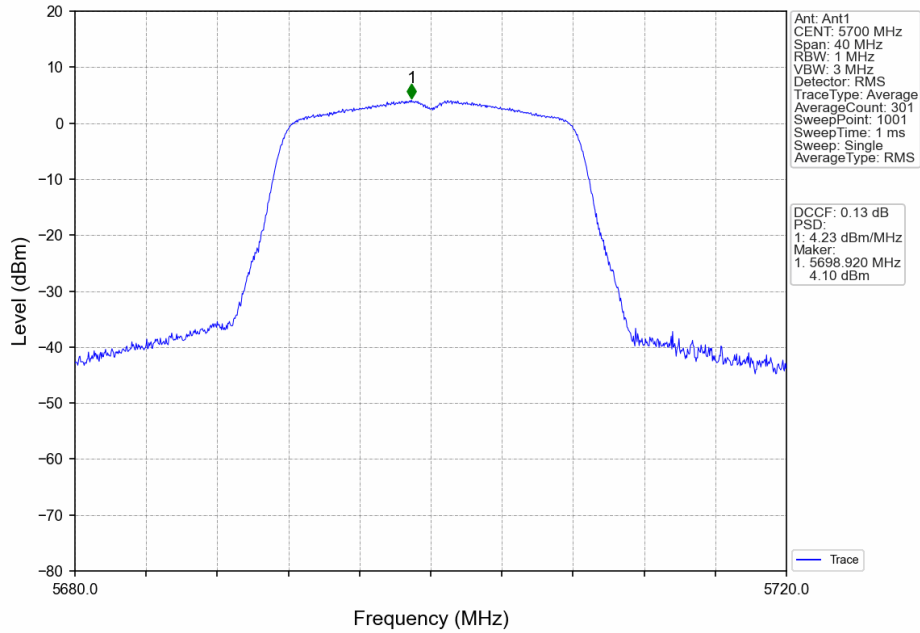
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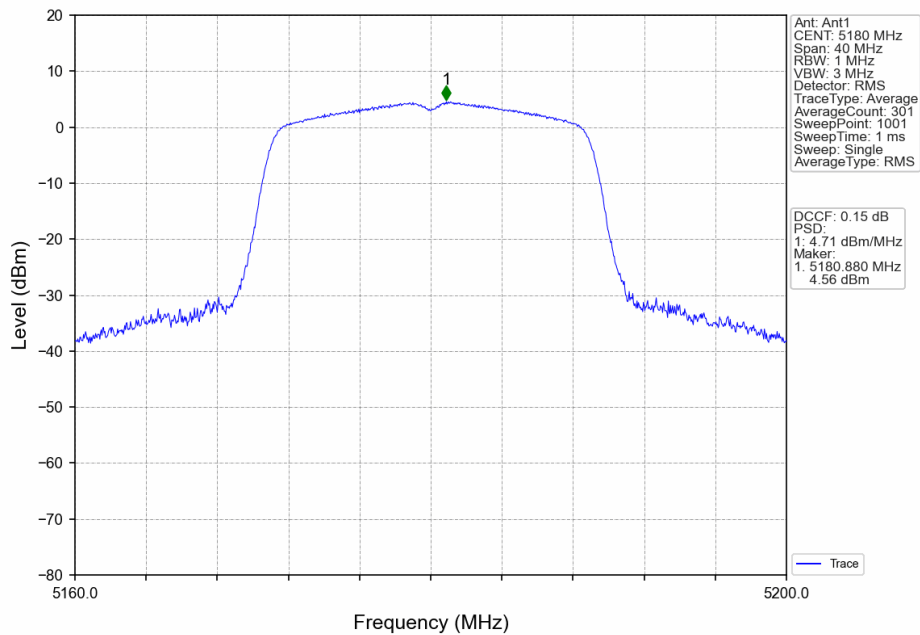


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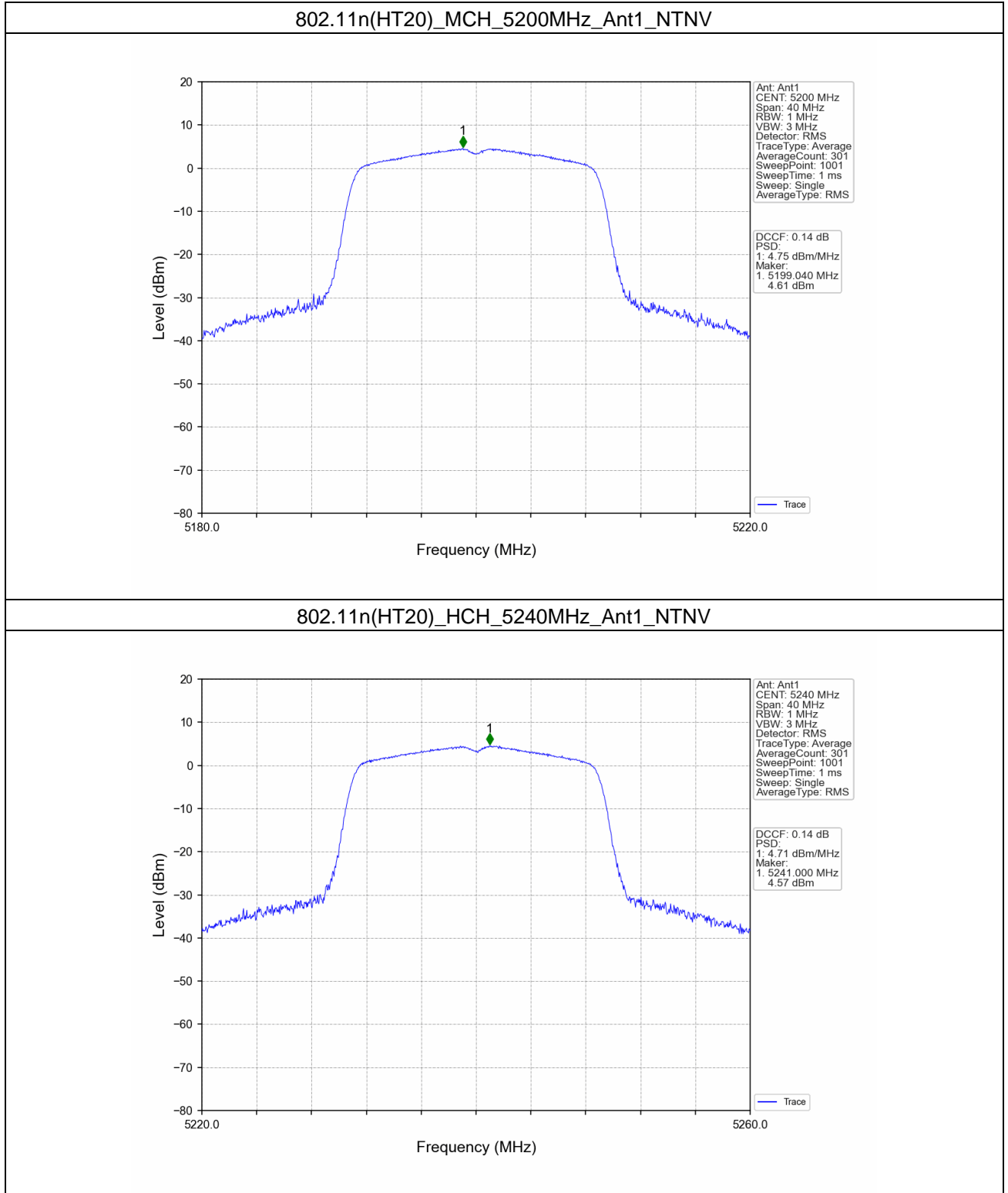
802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

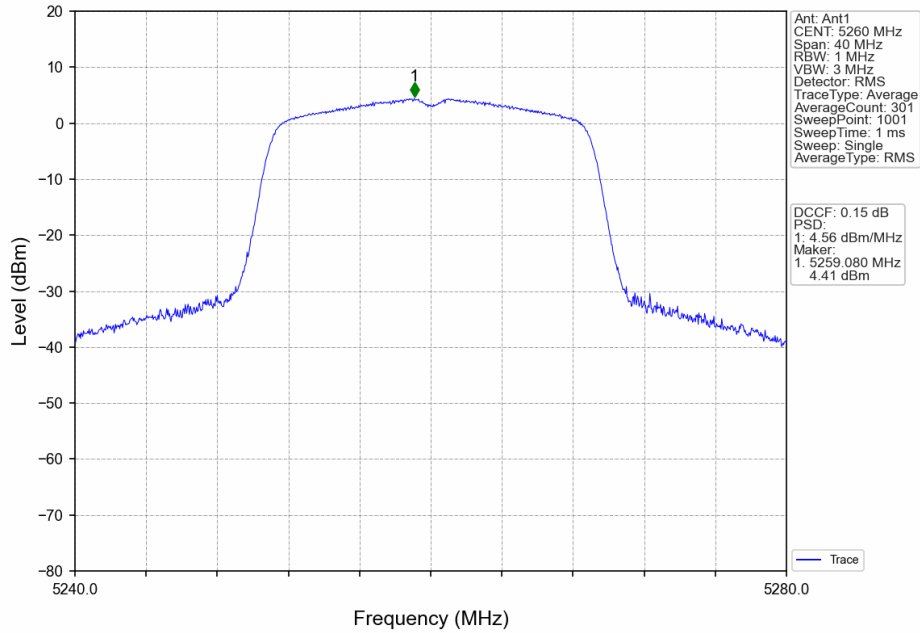


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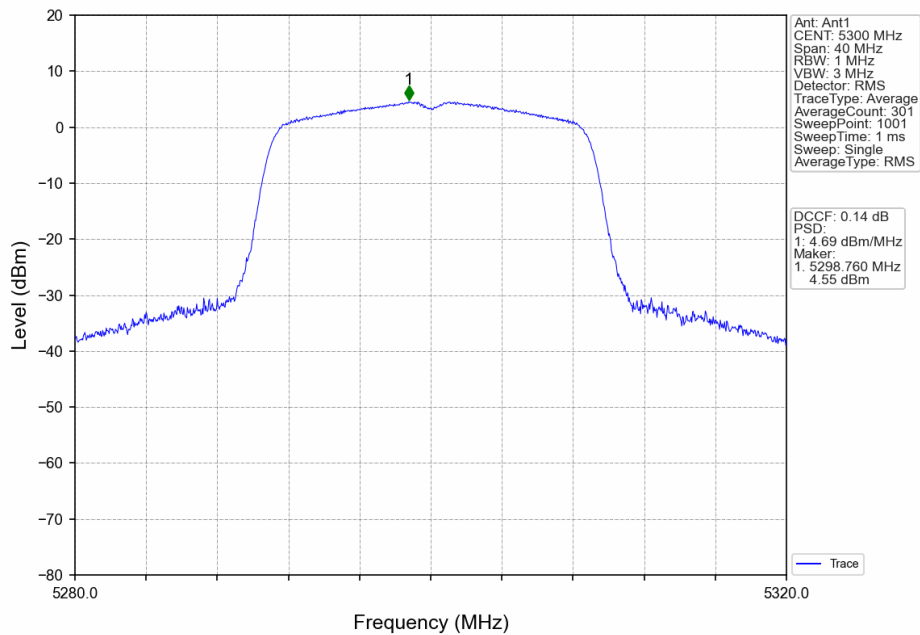


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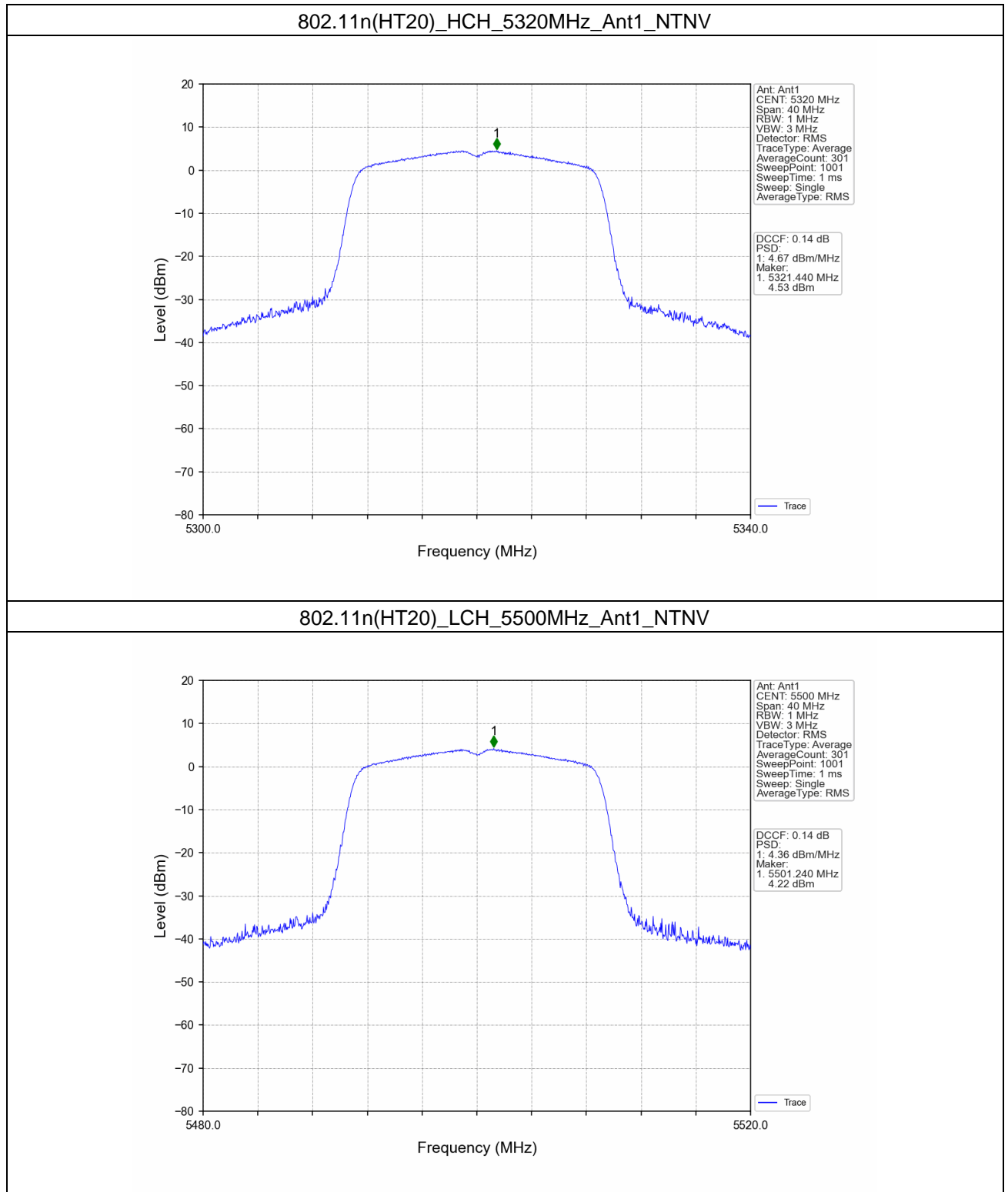
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV

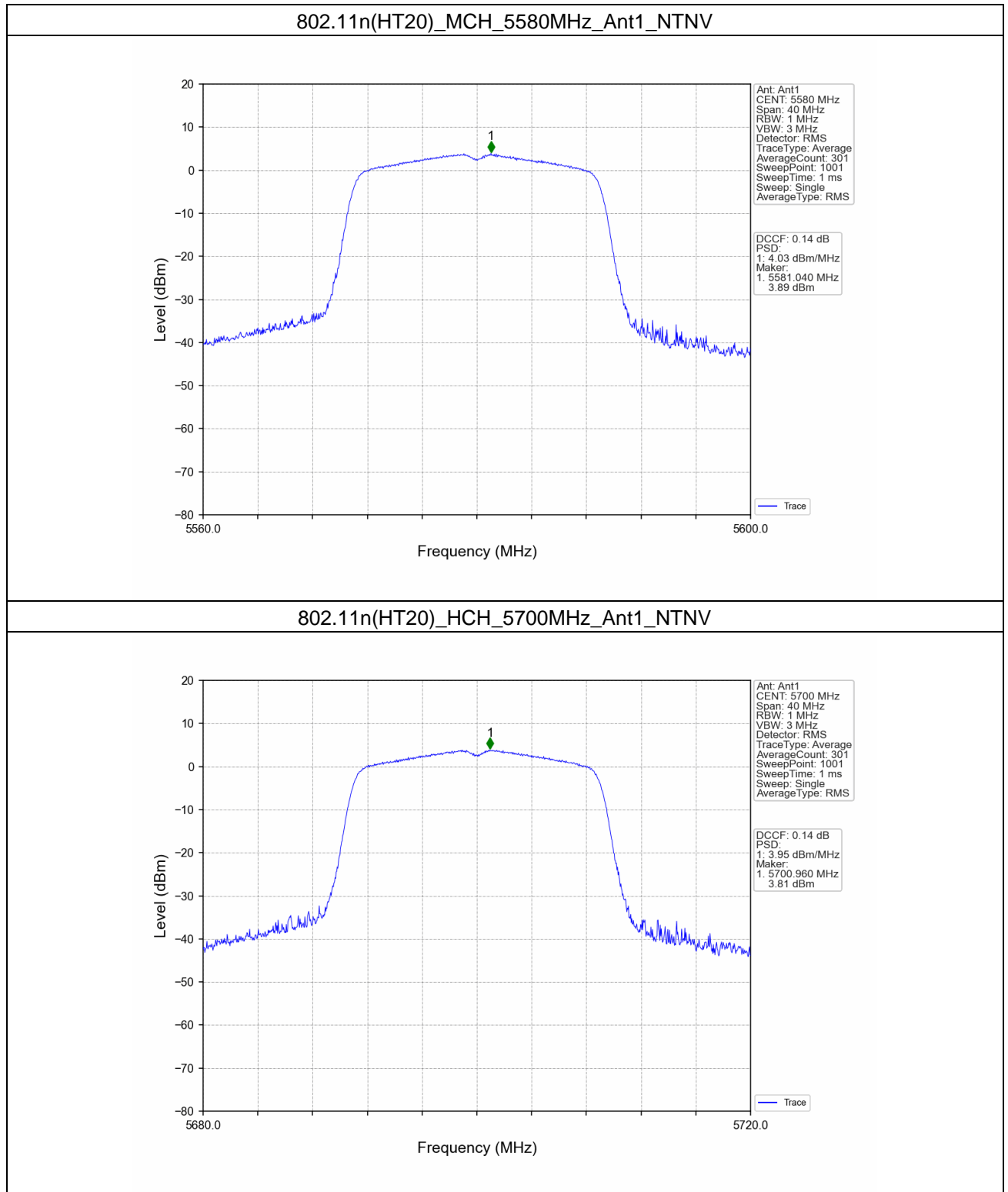


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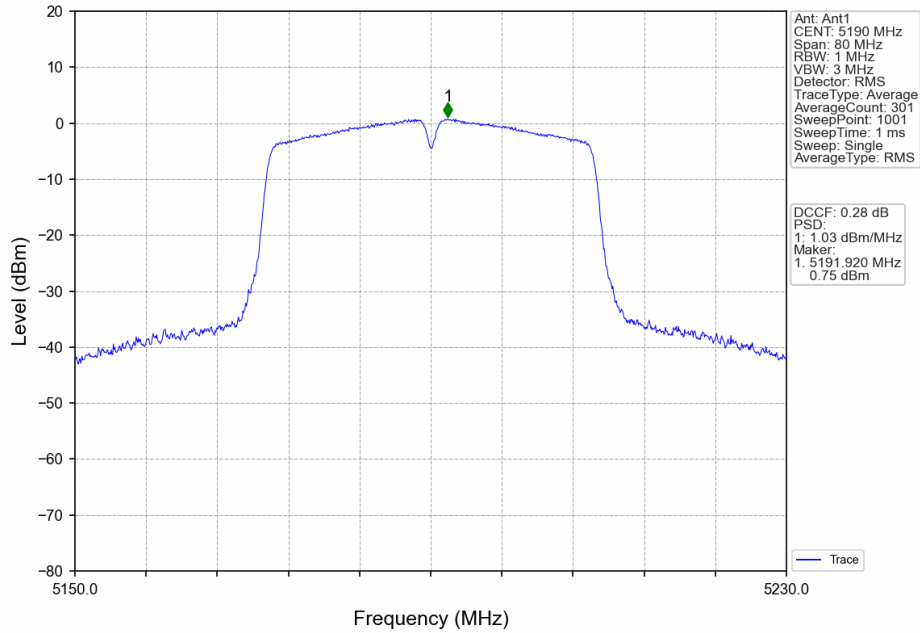
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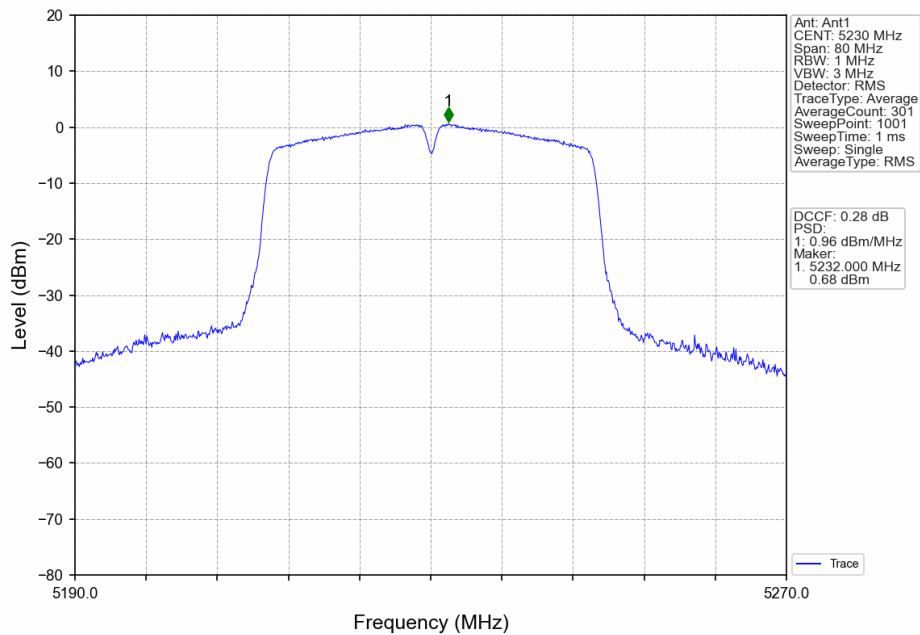


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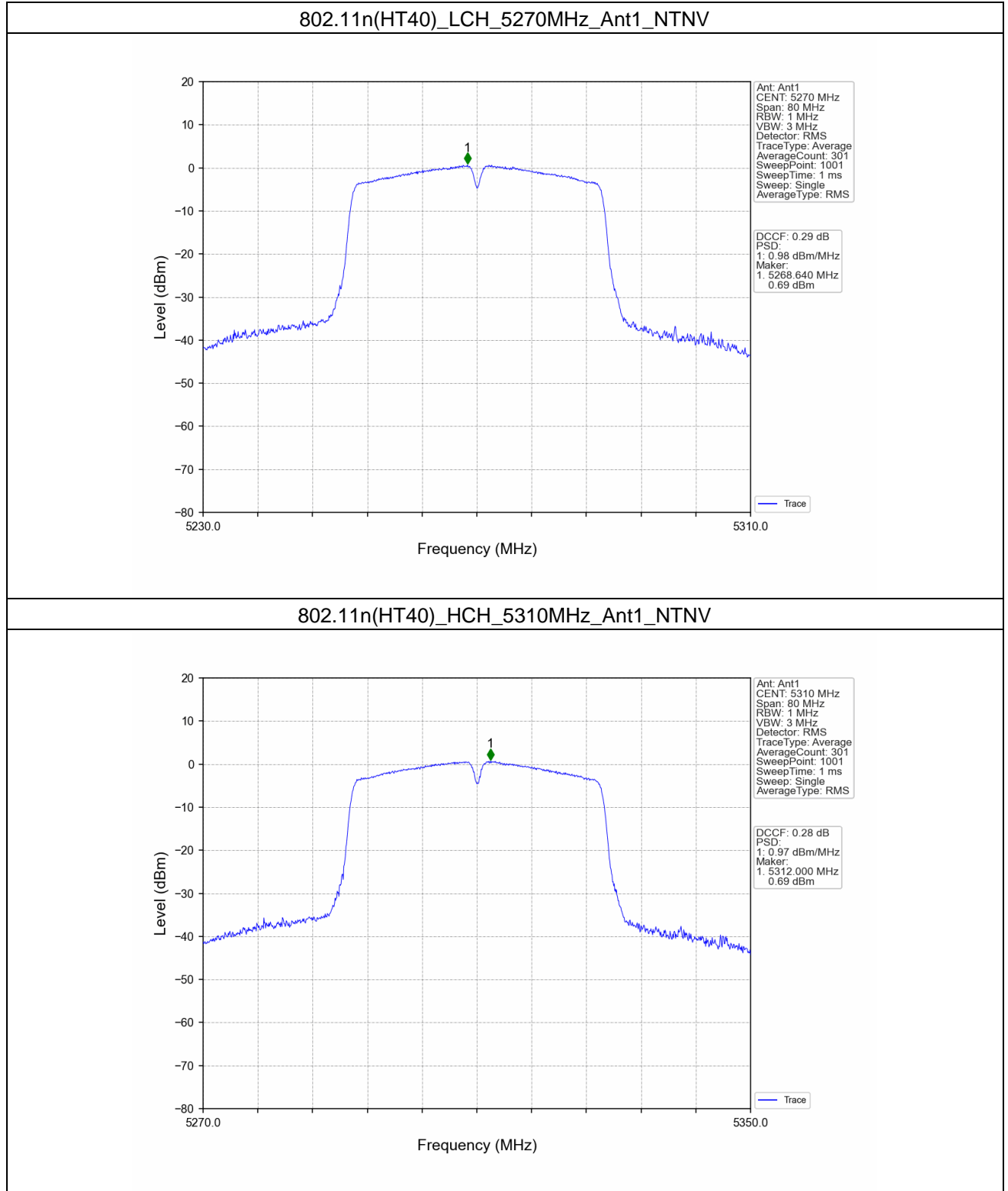
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

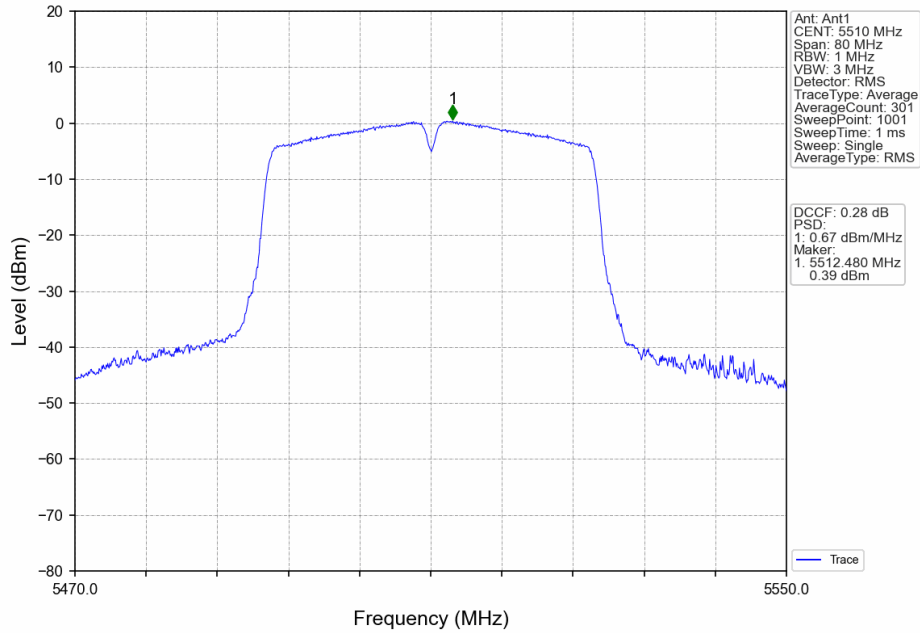


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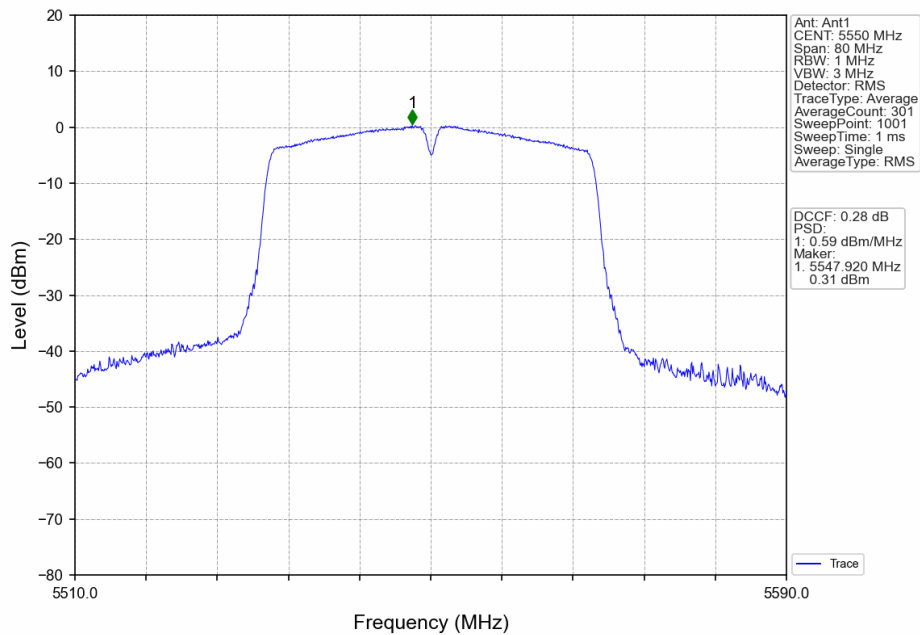


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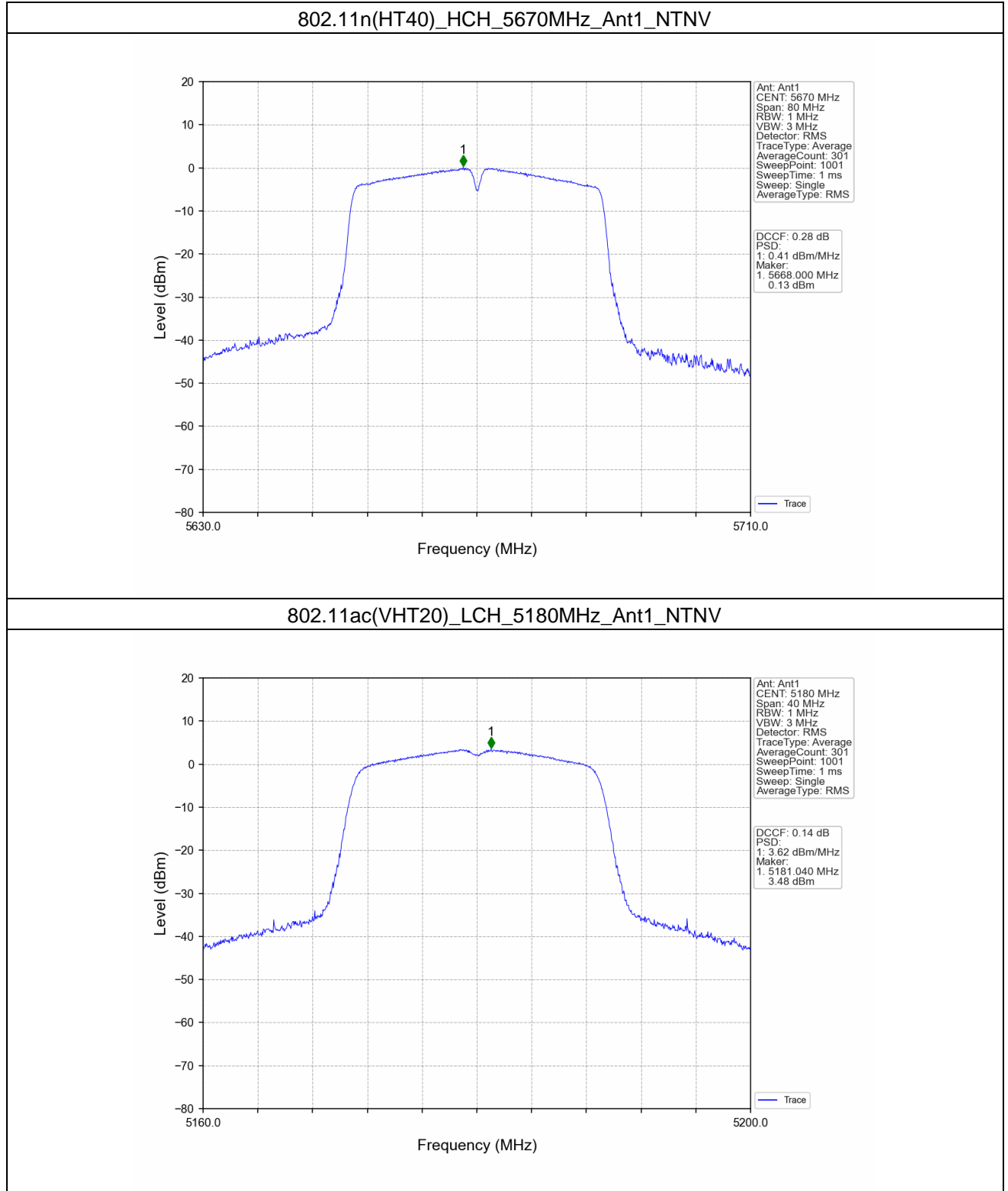
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV

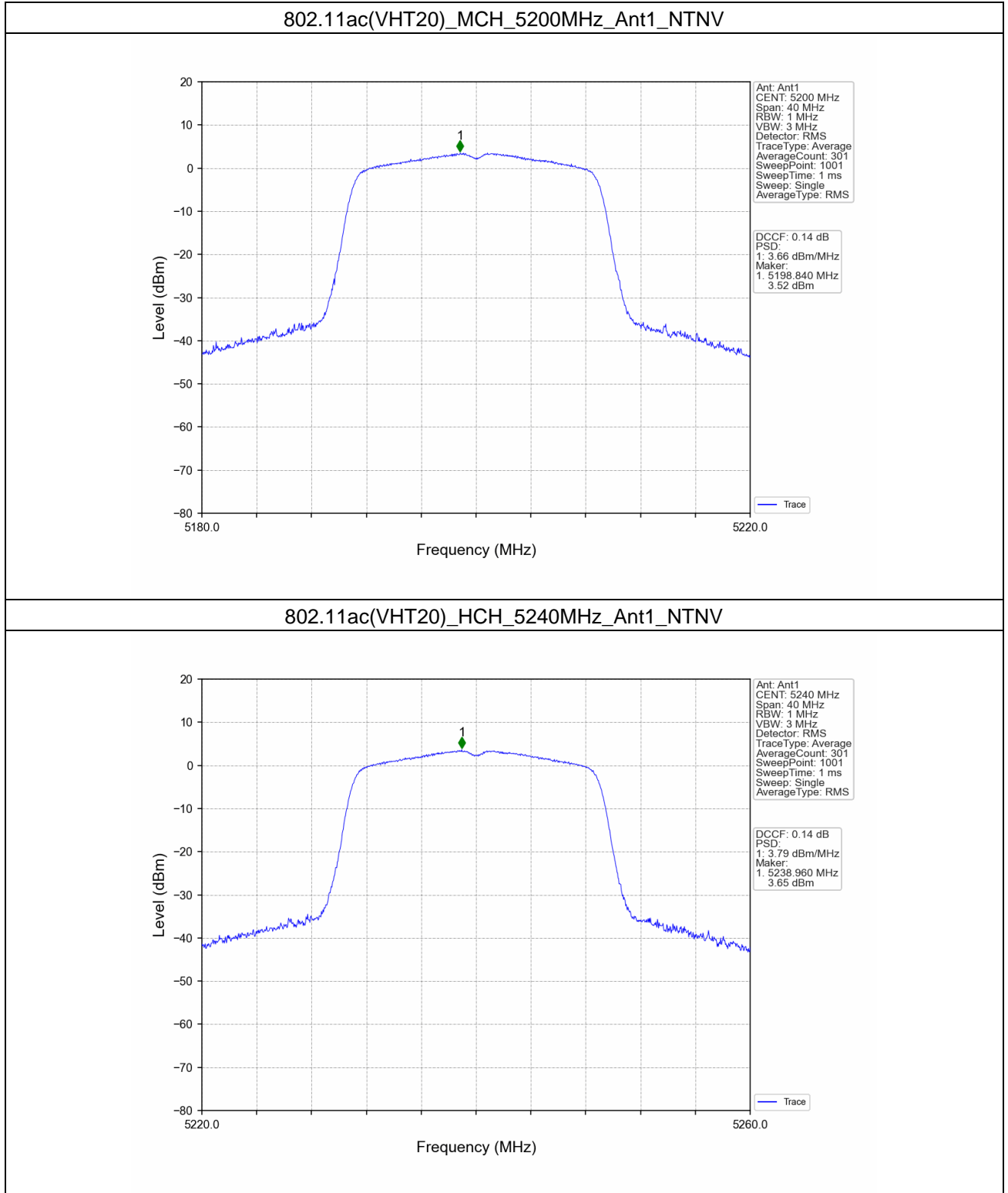


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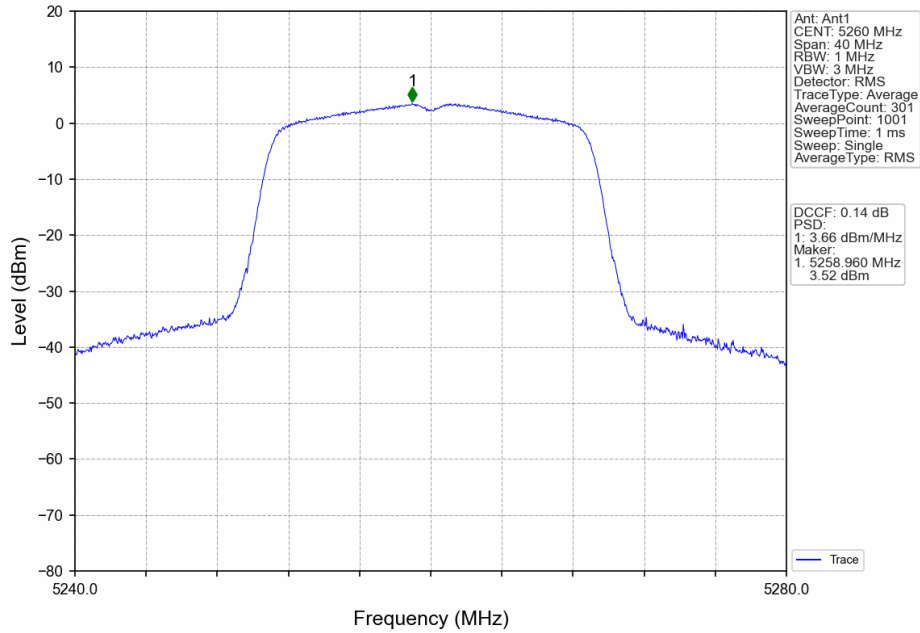
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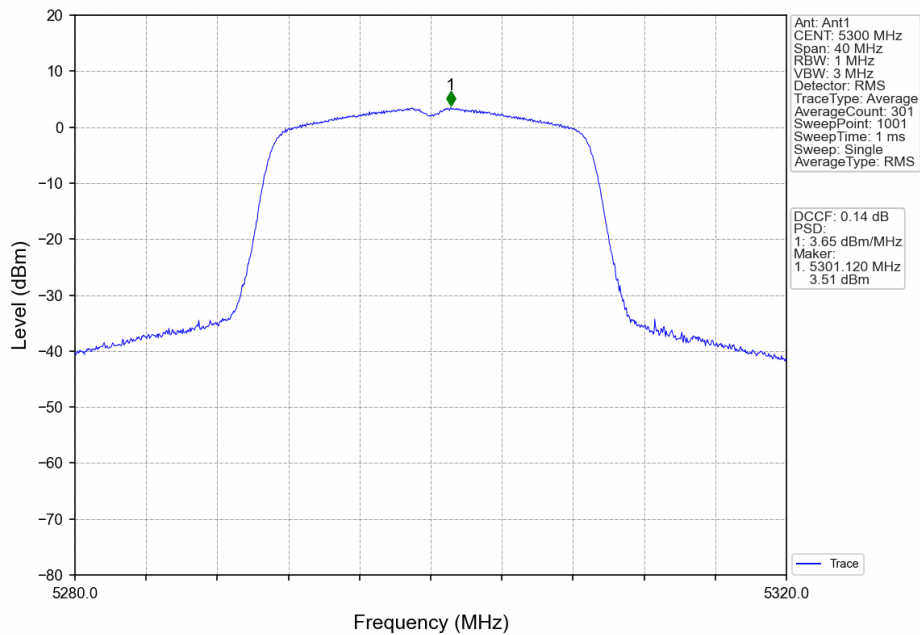


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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV

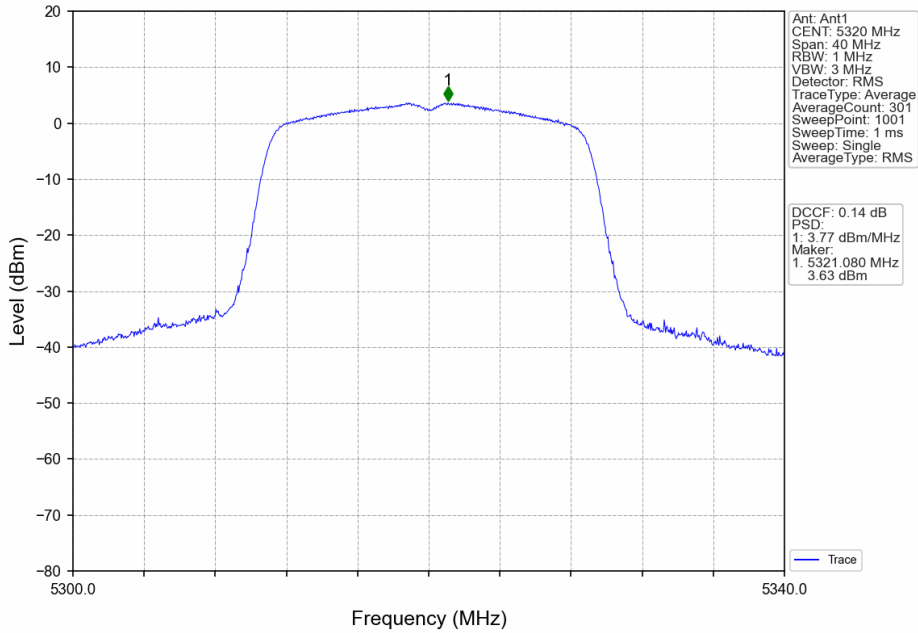


802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV

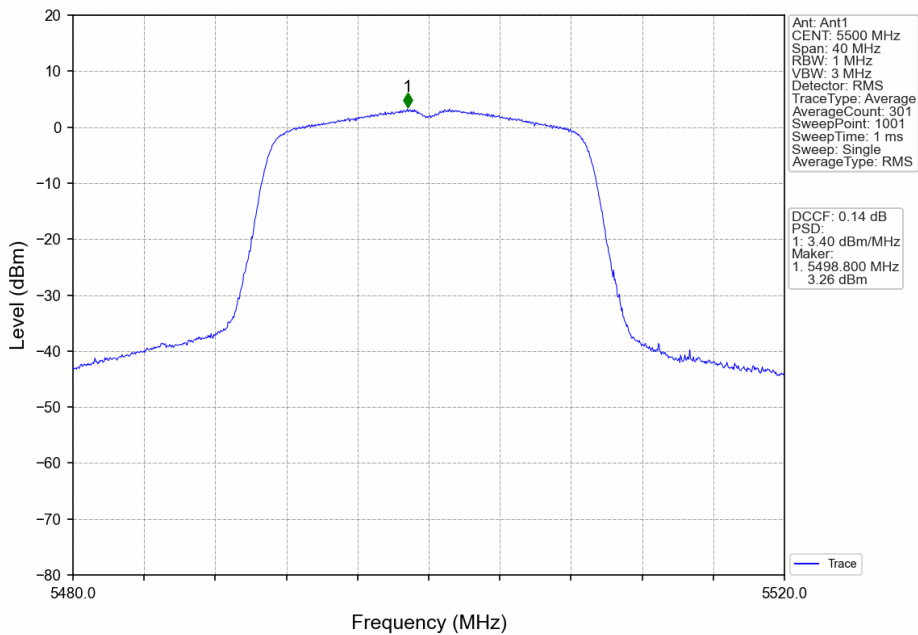


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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV

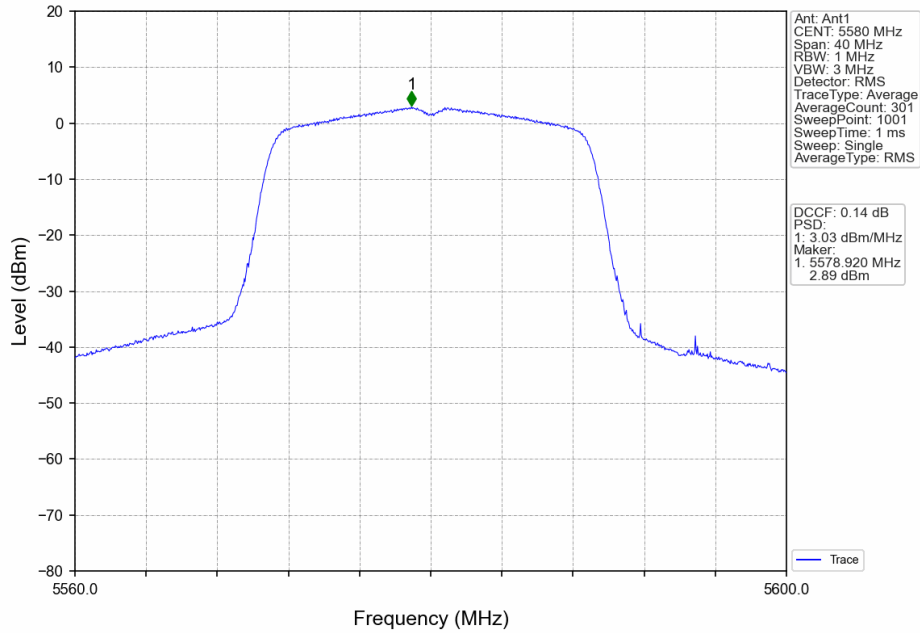


802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV

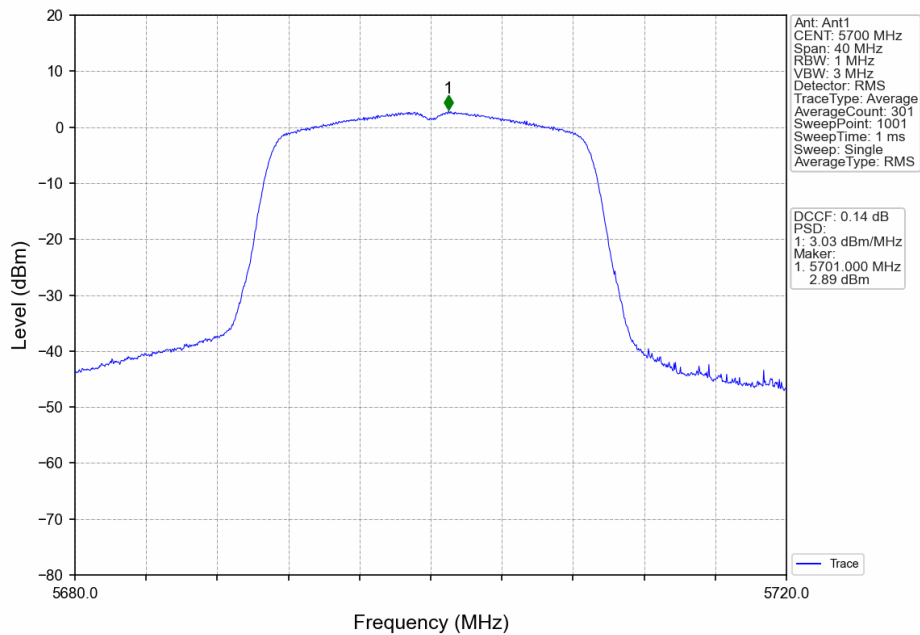


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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

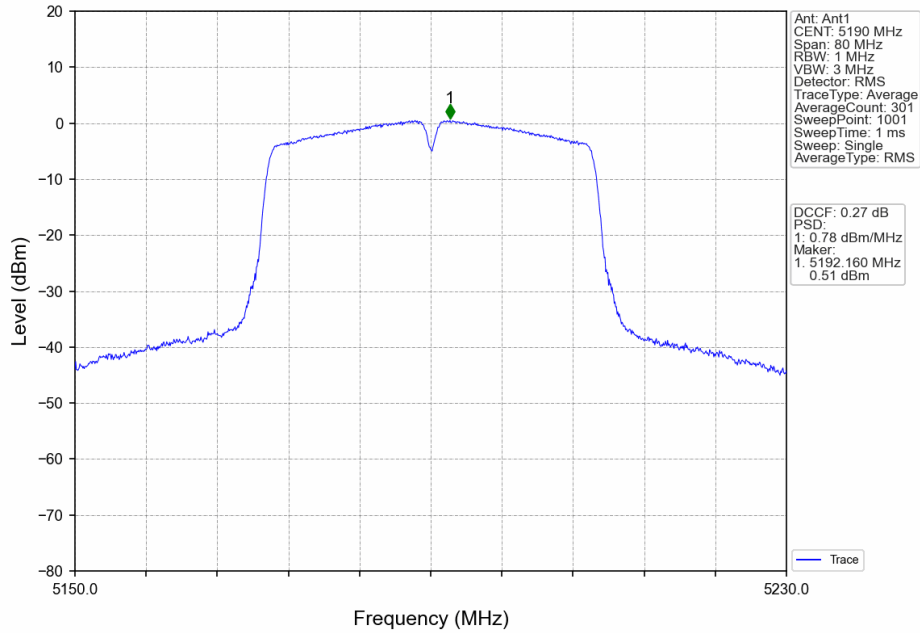


802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

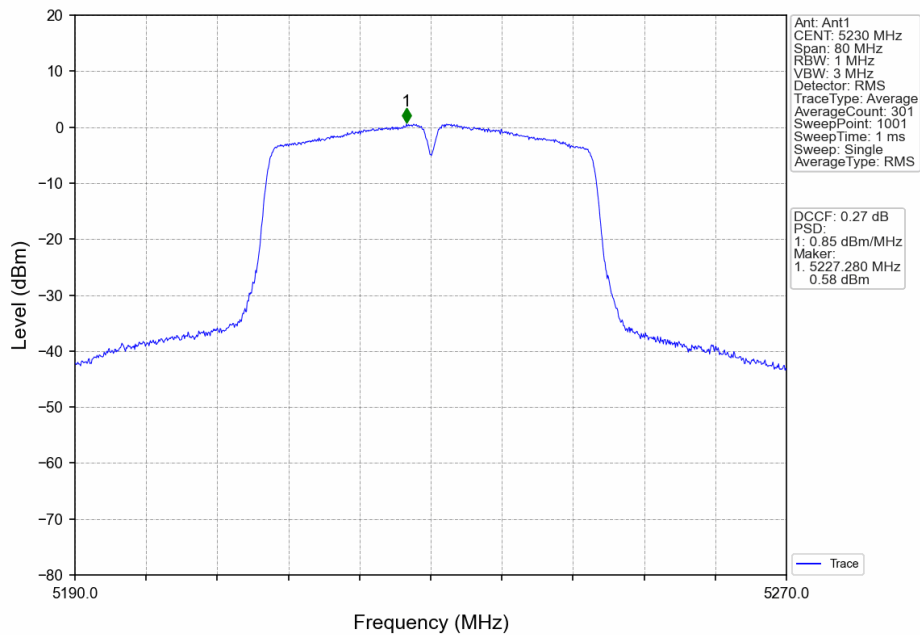


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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

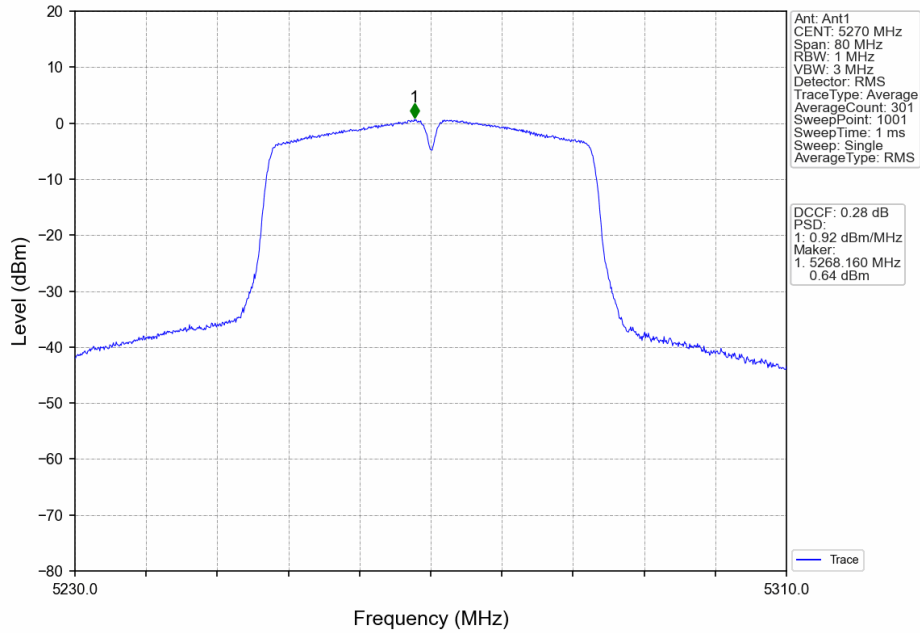


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

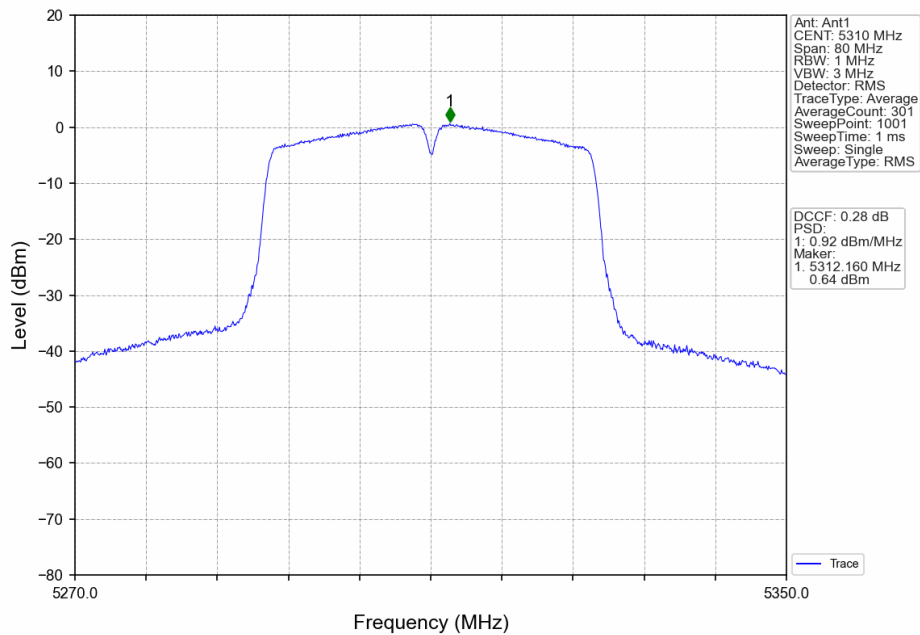


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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV

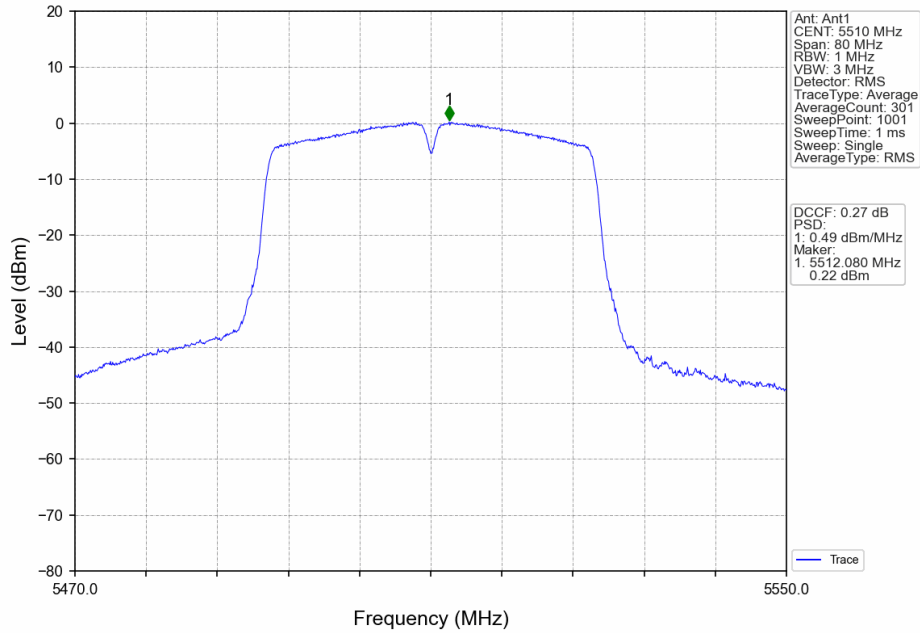


802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV

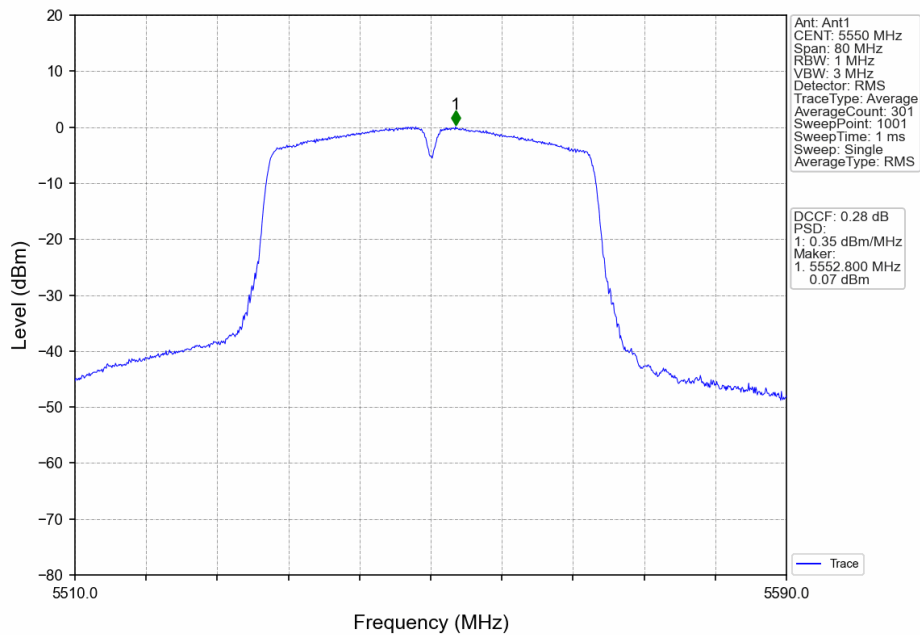


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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV

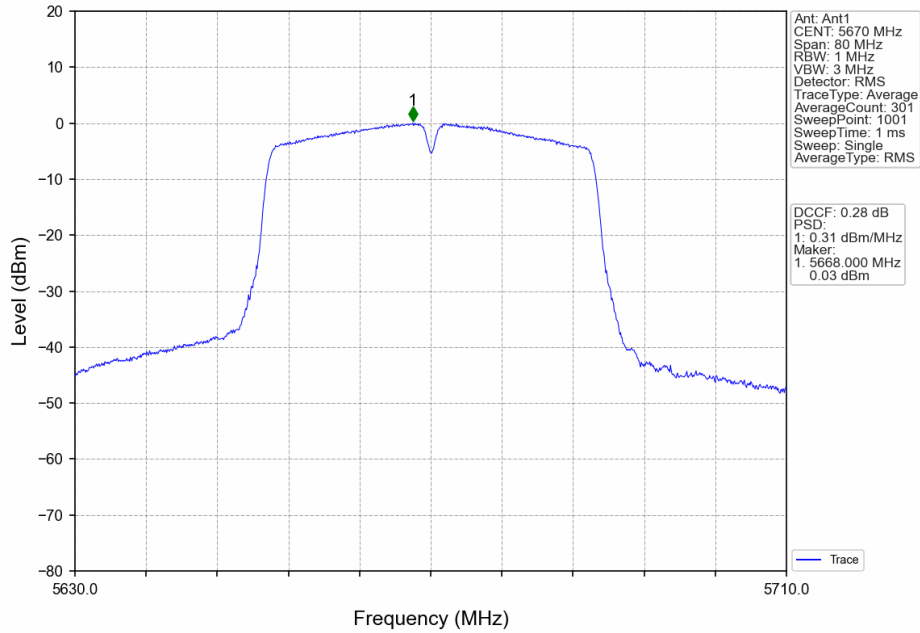


802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

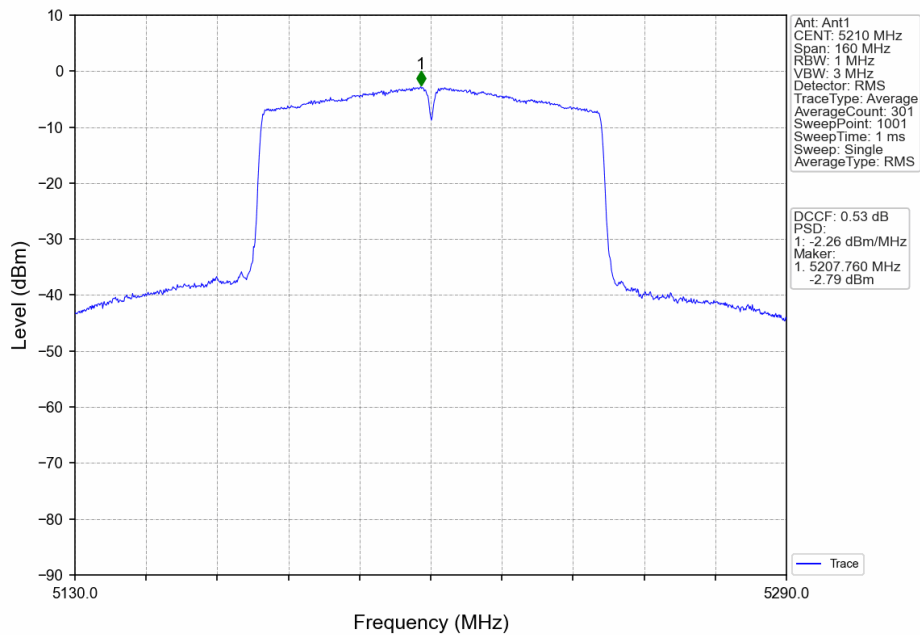


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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV

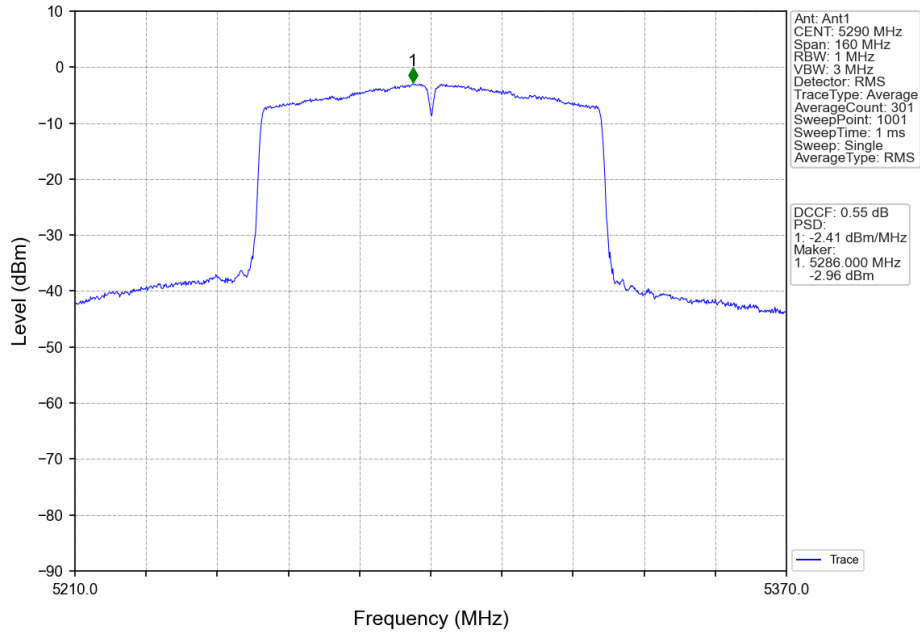


802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

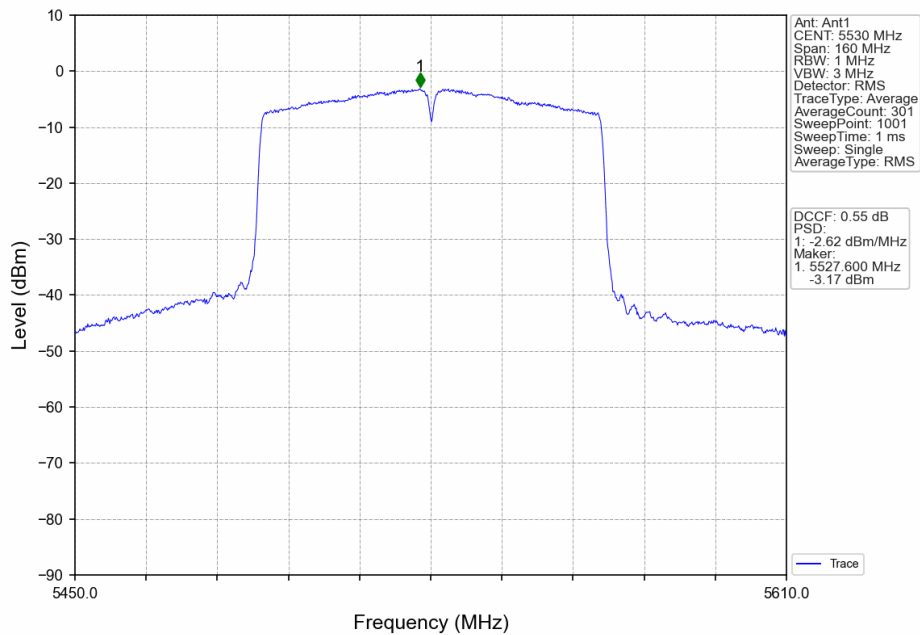


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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

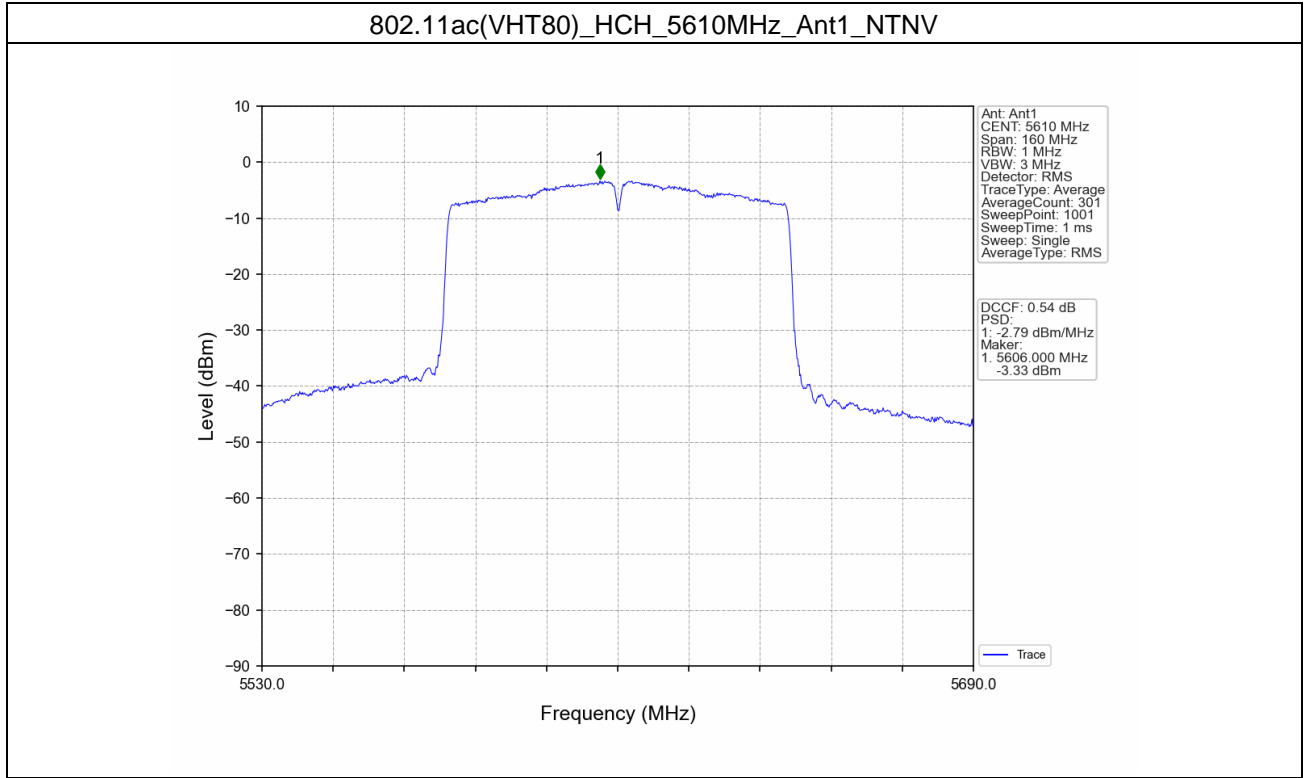


802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	1.98	<=30	Pass
		5785	2.22	<=30	Pass
		5825	2.10	<=30	Pass
802.11n (HT20)	SISO	5745	1.89	<=30	Pass
		5785	1.89	<=30	Pass
		5825	1.74	<=30	Pass
802.11n (HT40)	SISO	5755	-2.19	<=30	Pass
		5795	-2.15	<=30	Pass
802.11ac (VHT20)	SISO	5745	0.69	<=30	Pass
		5785	0.62	<=30	Pass
		5825	0.89	<=30	Pass
802.11ac (VHT40)	SISO	5755	-2.18	<=30	Pass
		5795	-2.01	<=30	Pass
802.11ac (VHT80)	SISO	5775	-4.82	<=30	Pass

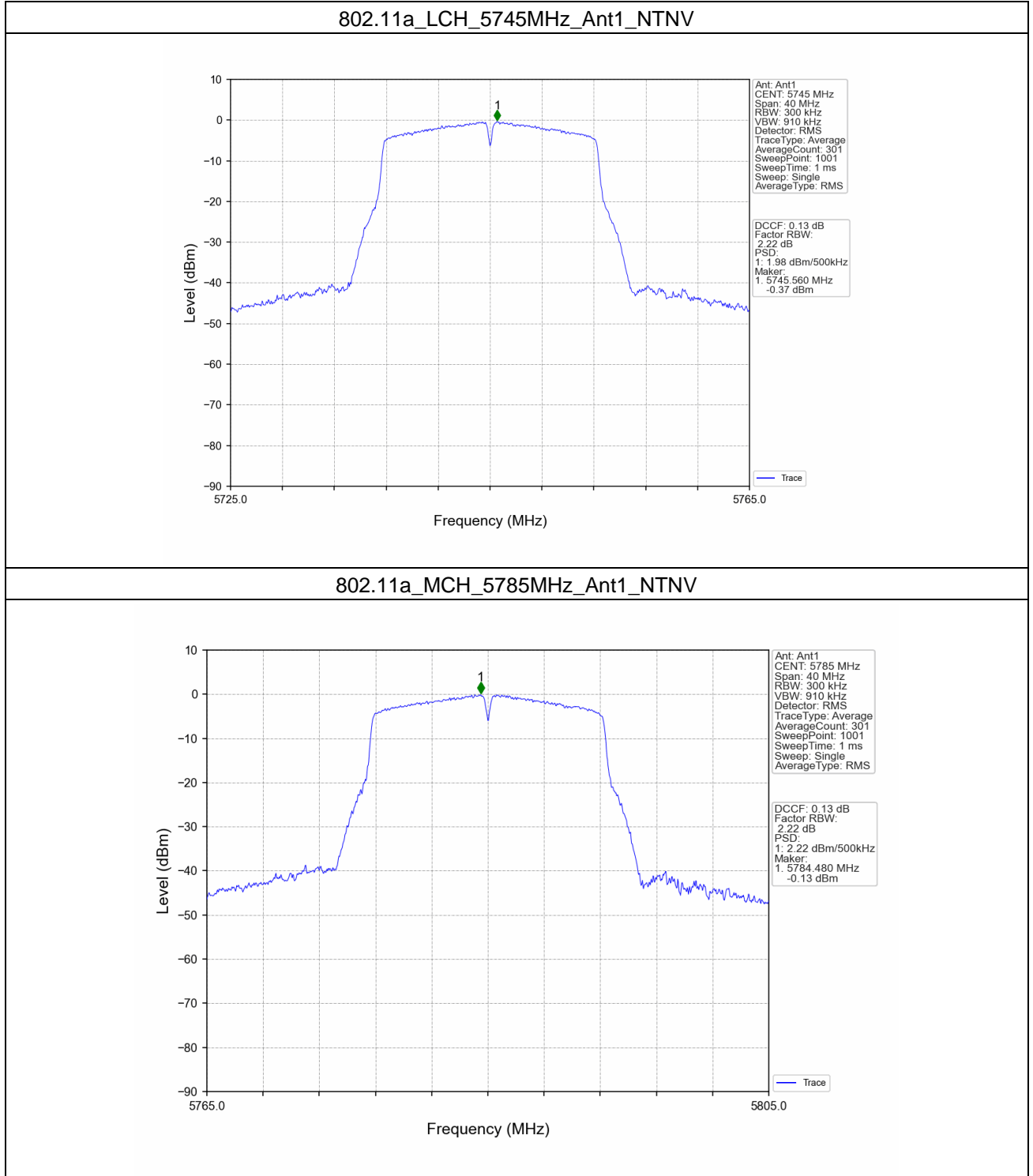
Note1: Antenna Gain: Ant1: 0.80dBi;



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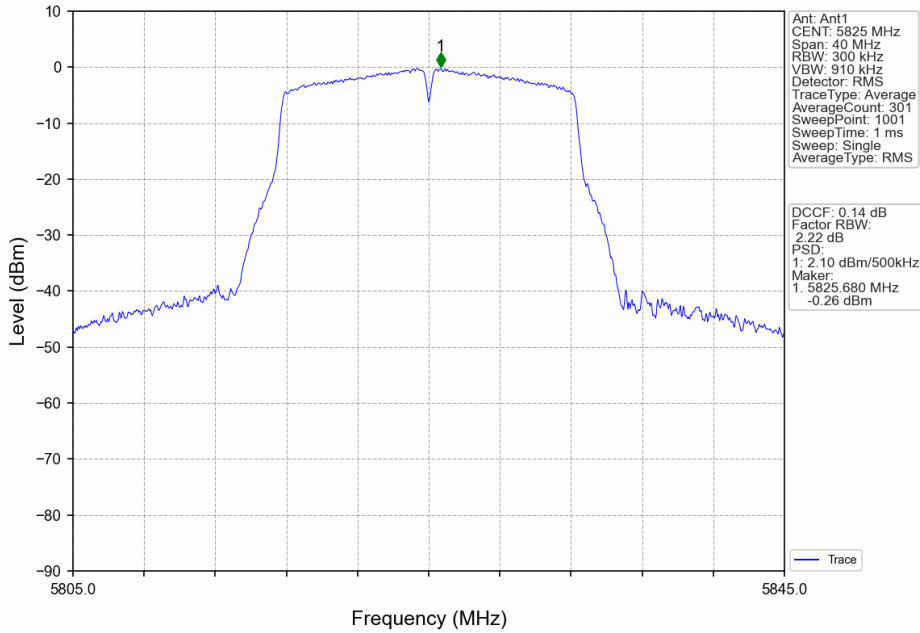
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4.2.2 Test Graph

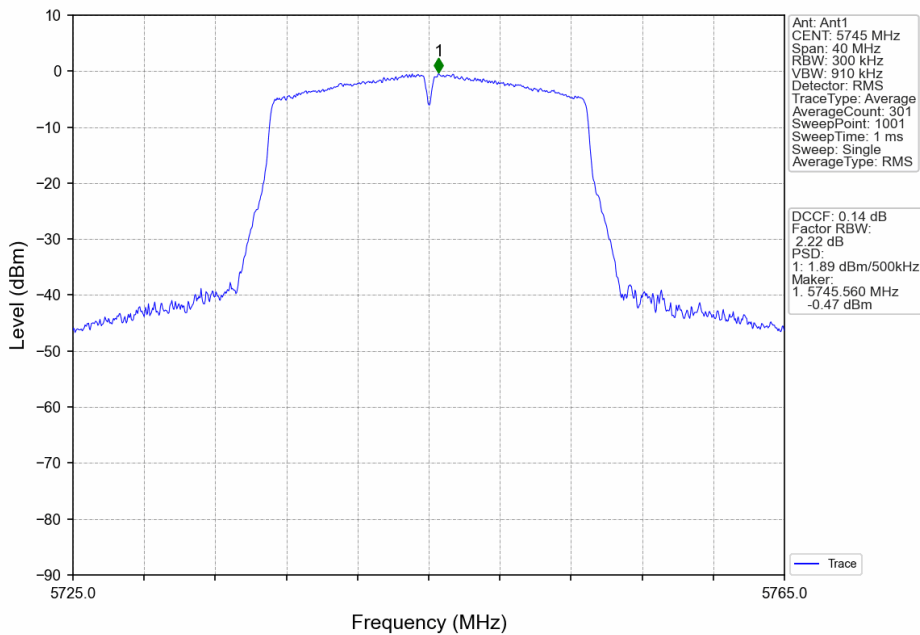


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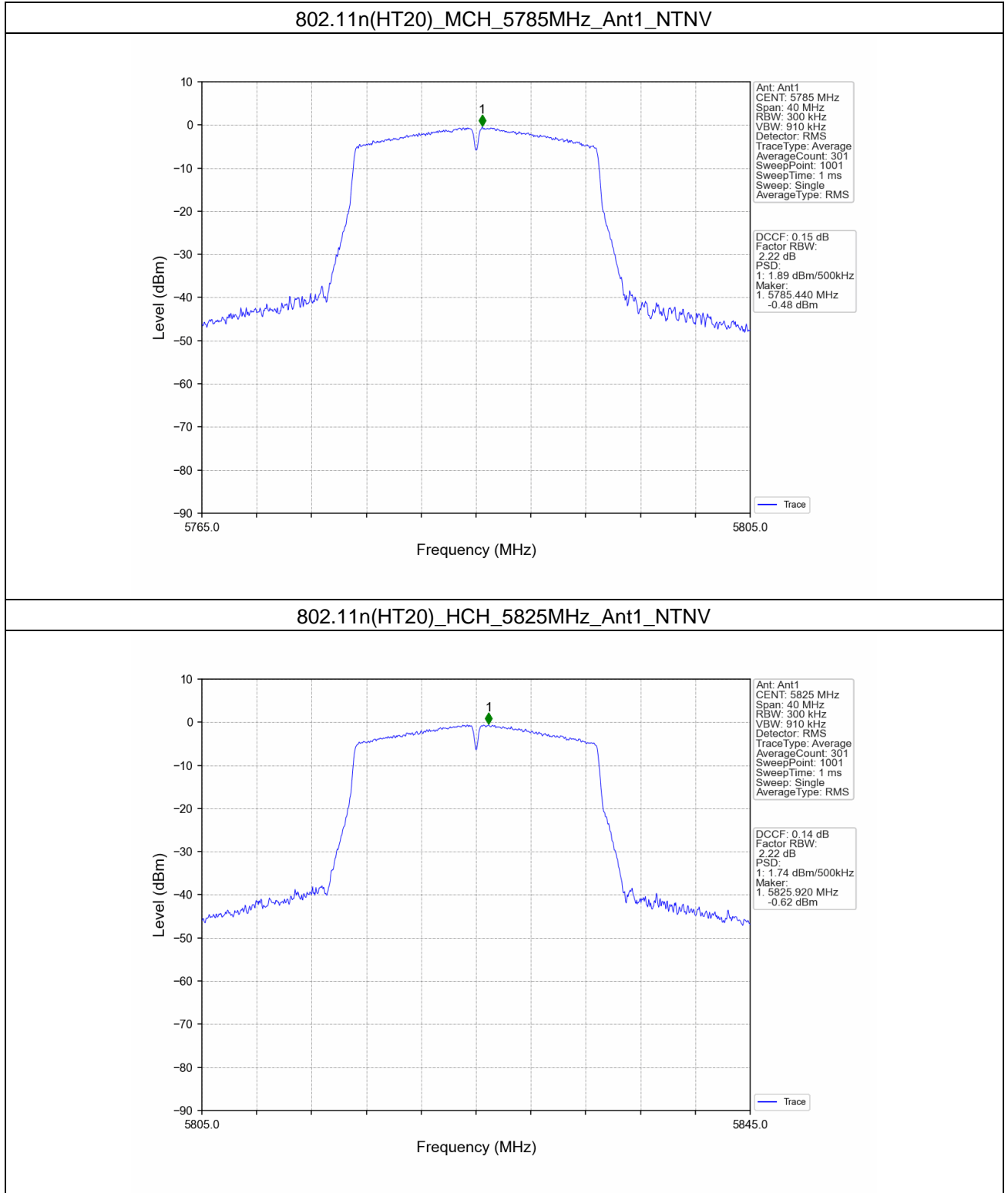
802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

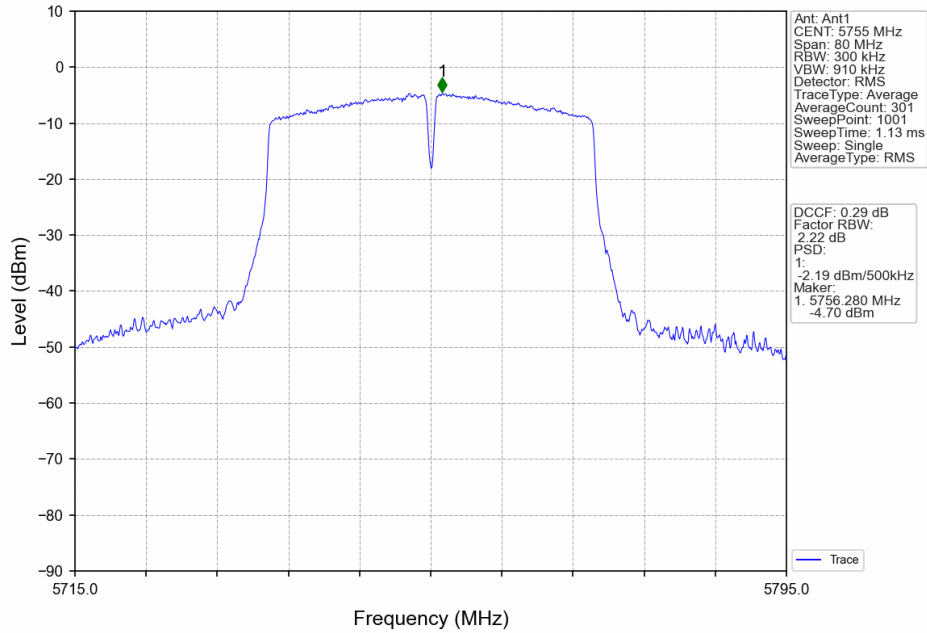


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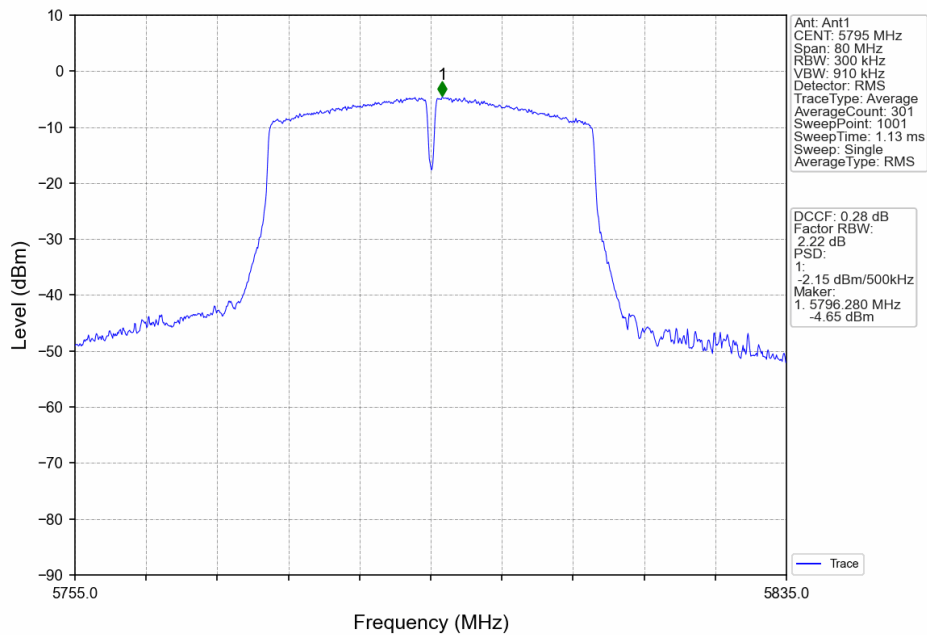


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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

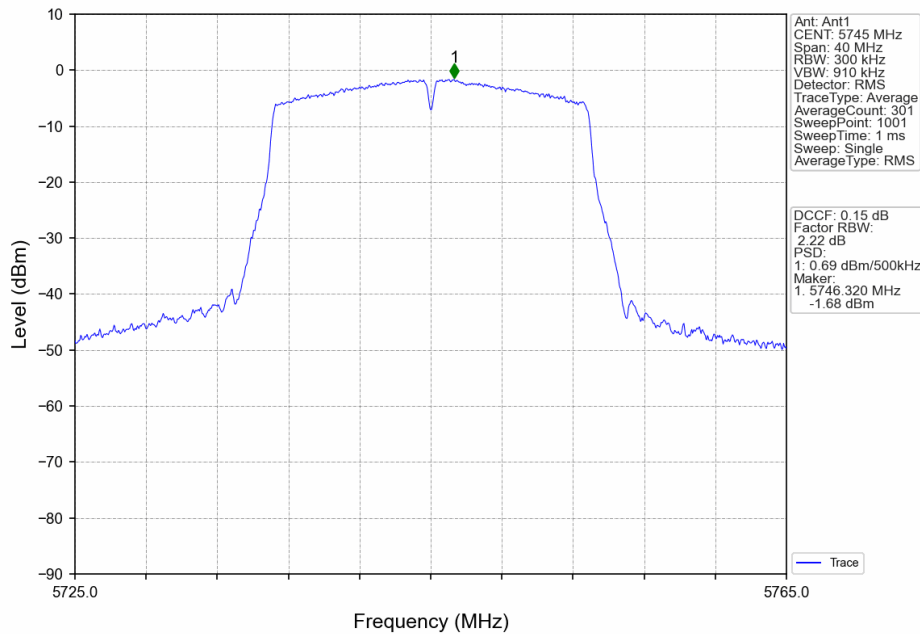


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

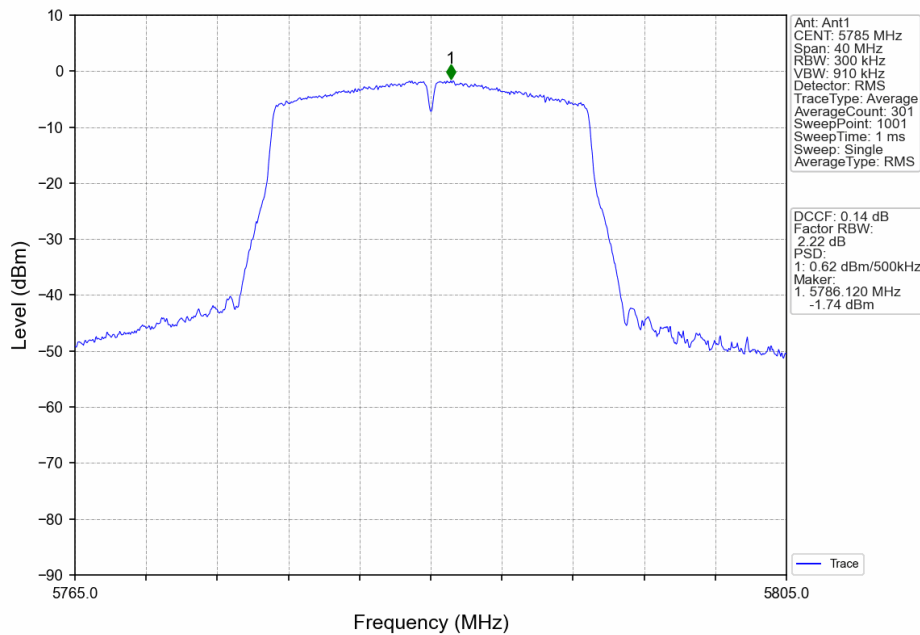


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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

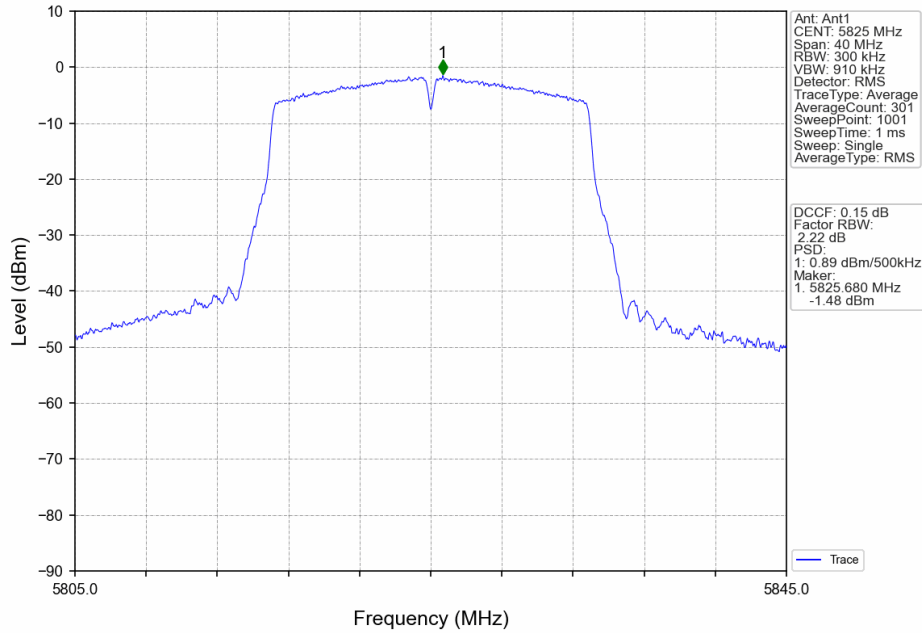


802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

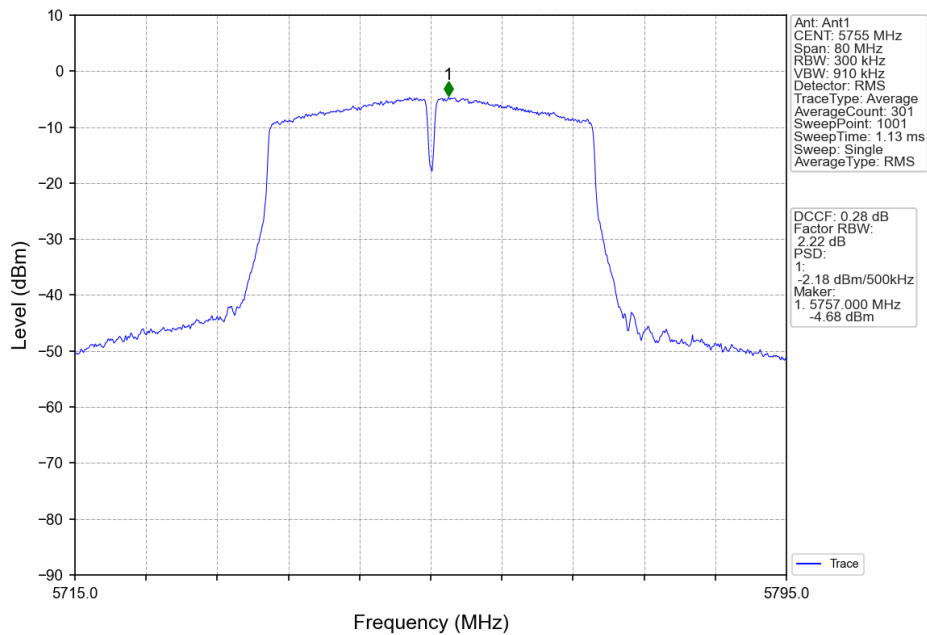


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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

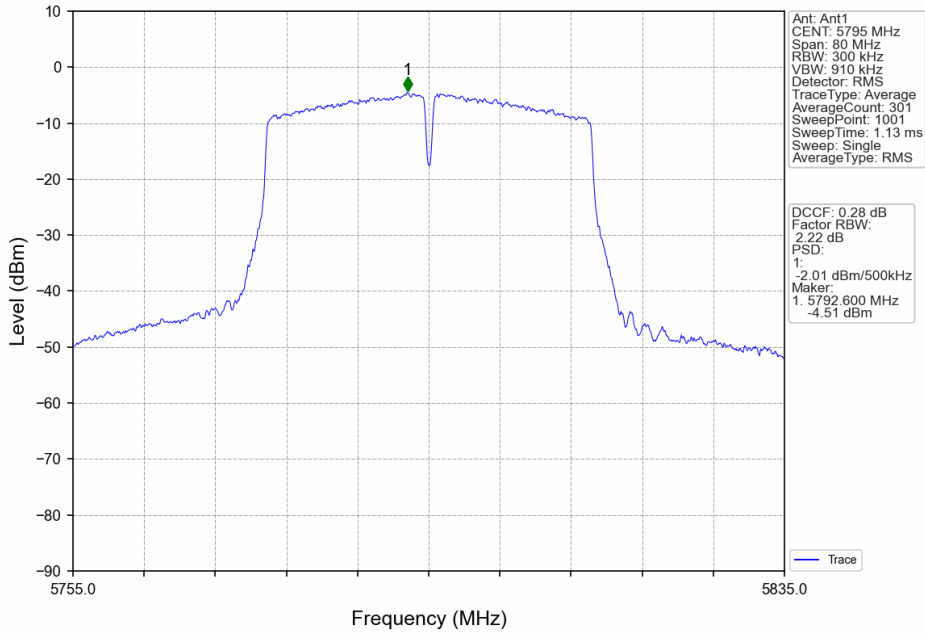


802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

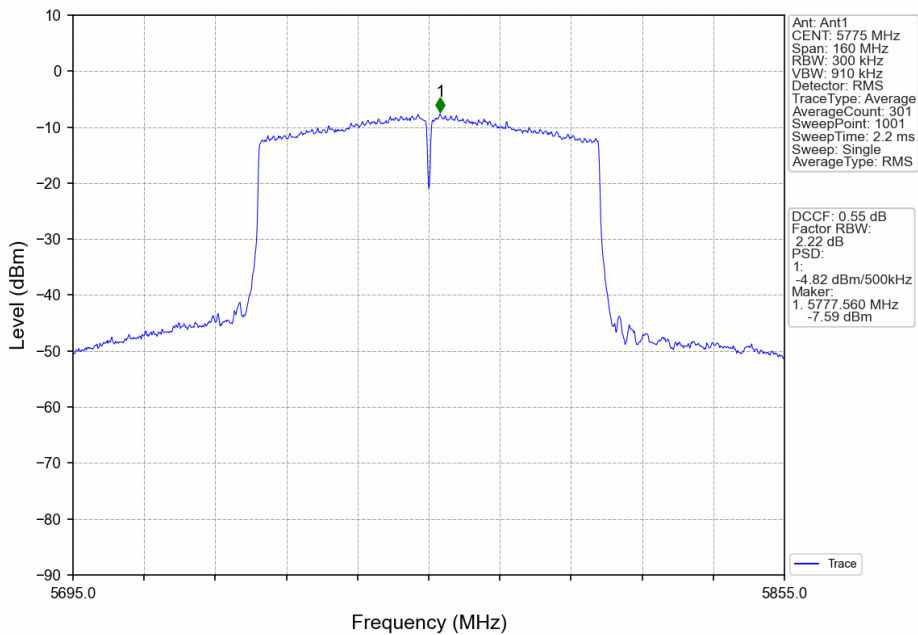


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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (Vdc)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	3.6	5180.060	5150 to 5250	Pass
				3.85	5180.040	5150 to 5250	Pass
				4.4	5180.040	5150 to 5250	Pass
			-30	3.85	5180.000	5150 to 5250	Pass
				-20	3.85	5180.020	5150 to 5250
			-10	3.85	5180.060	5150 to 5250	Pass
			0	3.85	5180.020	5150 to 5250	Pass
			10	3.85	5179.980	5150 to 5250	Pass
			30	3.85	5179.980	5150 to 5250	Pass
			40	3.85	5180.020	5150 to 5250	Pass
		50	3.85	5180.020	5150 to 5250	Pass	
		5200	20	3.6	5200.020	5150 to 5250	Pass
				3.85	5200.020	5150 to 5250	Pass
				4.4	5200.060	5150 to 5250	Pass
			-30	3.85	5200.000	5150 to 5250	Pass
				-20	3.85	5200.000	5150 to 5250
			-10	3.85	5199.960	5150 to 5250	Pass
			0	3.85	5199.960	5150 to 5250	Pass
			10	3.85	5200.060	5150 to 5250	Pass
			30	3.85	5199.960	5150 to 5250	Pass
			40	3.85	5200.020	5150 to 5250	Pass
		50	3.85	5199.960	5150 to 5250	Pass	
		5240	20	3.6	5239.980	5150 to 5250	Pass
				3.85	5239.980	5150 to 5250	Pass
				4.4	5240.040	5150 to 5250	Pass
			-30	3.85	5240.020	5150 to 5250	Pass
				-20	3.85	5240.020	5150 to 5250
			-10	3.85	5239.960	5150 to 5250	Pass
			0	3.85	5240.080	5150 to 5250	Pass
			10	3.85	5240.020	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400138105

Page: 334 of 353

			30	3.85	5239.920	5150 to 5250	Pass
			40	3.85	5240.000	5150 to 5250	Pass
			50	3.85	5240.060	5150 to 5250	Pass
		5260	20	3.6	5260.040	5250 to 5350	Pass
				3.85	5259.980	5250 to 5350	Pass
				4.4	5260.060	5250 to 5350	Pass
			-30	3.85	5260.040	5250 to 5350	Pass
			-20	3.85	5260.000	5250 to 5350	Pass
			-10	3.85	5259.980	5250 to 5350	Pass
			0	3.85	5260.020	5250 to 5350	Pass
			10	3.85	5259.960	5250 to 5350	Pass
			30	3.85	5260.060	5250 to 5350	Pass
			40	3.85	5259.980	5250 to 5350	Pass
			50	3.85	5259.960	5250 to 5350	Pass
			5300	20	3.6	5299.980	5250 to 5350
		3.85			5299.960	5250 to 5350	Pass
		4.4			5300.040	5250 to 5350	Pass
		-30		3.85	5300.000	5250 to 5350	Pass
		-20		3.85	5299.960	5250 to 5350	Pass
		-10		3.85	5300.120	5250 to 5350	Pass
		0		3.85	5300.060	5250 to 5350	Pass
		10		3.85	5300.000	5250 to 5350	Pass
		30		3.85	5300.000	5250 to 5350	Pass
		40		3.85	5299.960	5250 to 5350	Pass
		50		3.85	5300.040	5250 to 5350	Pass
		5320		20	3.6	5319.980	5250 to 5350
			3.85		5320.020	5250 to 5350	Pass
			4.4		5320.020	5250 to 5350	Pass
			-30	3.85	5320.020	5250 to 5350	Pass
			-20	3.85	5319.920	5250 to 5350	Pass
			-10	3.85	5319.740	5250 to 5350	Pass
			0	3.85	5320.040	5250 to 5350	Pass
			10	3.85	5319.980	5250 to 5350	Pass
			30	3.85	5319.980	5250 to 5350	Pass
			40	3.85	5320.000	5250 to 5350	Pass
			50	3.85	5319.900	5250 to 5350	Pass
5500	20		3.6	5500.040	5470 to 5725	Pass	
		3.85	5500.020	5470 to 5725	Pass		
		4.4	5500.000	5470 to 5725	Pass		
		-30	3.85	5500.040	5470 to 5725	Pass	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400138105

Page: 335 of 353

			-20	3.85	5500.040	5470 to 5725	Pass	
			-10	3.85	5500.060	5470 to 5725	Pass	
			0	3.85	5500.100	5470 to 5725	Pass	
			10	3.85	5500.020	5470 to 5725	Pass	
			30	3.85	5499.980	5470 to 5725	Pass	
			40	3.85	5500.100	5470 to 5725	Pass	
			50	3.85	5500.080	5470 to 5725	Pass	
		5580	20	3.6	5579.960	5470 to 5725	Pass	
				3.85	5580.020	5470 to 5725	Pass	
				4.4	5580.040	5470 to 5725	Pass	
				-30	3.85	5580.060	5470 to 5725	Pass
				-20	3.85	5580.060	5470 to 5725	Pass
				-10	3.85	5579.980	5470 to 5725	Pass
				0	3.85	5580.020	5470 to 5725	Pass
				10	3.85	5580.100	5470 to 5725	Pass
				30	3.85	5580.020	5470 to 5725	Pass
				40	3.85	5580.040	5470 to 5725	Pass
				50	3.85	5580.020	5470 to 5725	Pass
			5700	20	3.6	5699.980	5470 to 5725	Pass
		3.85			5700.000	5470 to 5725	Pass	
		4.4			5700.020	5470 to 5725	Pass	
				-30	3.85	5700.040	5470 to 5725	Pass
				-20	3.85	5700.060	5470 to 5725	Pass
				-10	3.85	5699.960	5470 to 5725	Pass
				0	3.85	5700.000	5470 to 5725	Pass
				10	3.85	5700.040	5470 to 5725	Pass
				30	3.85	5700.100	5470 to 5725	Pass
				40	3.85	5700.060	5470 to 5725	Pass
			50	3.85	5699.960	5470 to 5725	Pass	
		5745	20	3.6	5744.940	5725 to 5850	Pass	
				3.85	5744.980	5725 to 5850	Pass	
				4.4	5745.020	5725 to 5850	Pass	
				-30	3.85	5745.040	5725 to 5850	Pass
				-20	3.85	5745.020	5725 to 5850	Pass
				-10	3.85	5745.020	5725 to 5850	Pass
				0	3.85	5745.060	5725 to 5850	Pass
				10	3.85	5745.060	5725 to 5850	Pass
				30	3.85	5745.040	5725 to 5850	Pass
				40	3.85	5745.080	5725 to 5850	Pass
			50	3.85	5745.040	5725 to 5850	Pass	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400138105

Page: 336 of 353

		5785	20	3.6	5784.960	5725 to 5850	Pass	
				3.85	5784.980	5725 to 5850	Pass	
				4.4	5785.020	5725 to 5850	Pass	
			-30	3.85	5785.020	5725 to 5850	Pass	
				-20	3.85	5784.960	5725 to 5850	Pass
					3.85	5785.080	5725 to 5850	Pass
			0	3.85	5784.960	5725 to 5850	Pass	
				3.85	5785.080	5725 to 5850	Pass	
			30	3.85	5784.900	5725 to 5850	Pass	
		40	3.85	5784.980	5725 to 5850	Pass		
		50	3.85	5785.000	5725 to 5850	Pass		
		5825	20	3.6	5824.960	5725 to 5850	Pass	
				3.85	5825.000	5725 to 5850	Pass	
				4.4	5824.960	5725 to 5850	Pass	
			-30	3.85	5824.980	5725 to 5850	Pass	
				3.85	5824.960	5725 to 5850	Pass	
			-10	3.85	5825.040	5725 to 5850	Pass	
				3.85	5825.000	5725 to 5850	Pass	
			10	3.85	5825.000	5725 to 5850	Pass	
30	3.85		5825.000	5725 to 5850	Pass			
40	3.85		5824.980	5725 to 5850	Pass			
50	3.85	5824.980	5725 to 5850	Pass				

802.11n (HT20)	SISO	5180	20	3.6	5180.000	5150 to 5250	Pass
				3.85	5180.020	5150 to 5250	Pass
				4.4	5180.020	5150 to 5250	Pass
			-30	3.85	5180.040	5150 to 5250	Pass
				3.85	5180.040	5150 to 5250	Pass
			-10	3.85	5180.020	5150 to 5250	Pass
				3.85	5180.000	5150 to 5250	Pass
			10	3.85	5180.020	5150 to 5250	Pass
			30	3.85	5180.080	5150 to 5250	Pass
		40	3.85	5180.000	5150 to 5250	Pass	
		50	3.85	5180.060	5150 to 5250	Pass	
		5200	20	3.6	5200.000	5150 to 5250	Pass
				3.85	5199.980	5150 to 5250	Pass
				4.4	5200.020	5150 to 5250	Pass
			-30	3.85	5200.020	5150 to 5250	Pass
				3.85	5200.040	5150 to 5250	Pass
			-10	3.85	5200.020	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400138105

Page: 337 of 353

			0	3.85	5200.080	5150 to 5250	Pass
			10	3.85	5200.000	5150 to 5250	Pass
			30	3.85	5200.020	5150 to 5250	Pass
			40	3.85	5200.060	5150 to 5250	Pass
			50	3.85	5200.040	5150 to 5250	Pass
		5240	20	3.6	5239.940	5150 to 5250	Pass
				3.85	5239.940	5150 to 5250	Pass
				4.4	5240.060	5150 to 5250	Pass
			-30	3.85	5240.060	5150 to 5250	Pass
			-20	3.85	5240.000	5150 to 5250	Pass
			-10	3.85	5240.000	5150 to 5250	Pass
			0	3.85	5239.980	5150 to 5250	Pass
			10	3.85	5239.960	5150 to 5250	Pass
			30	3.85	5239.980	5150 to 5250	Pass
			40	3.85	5240.020	5150 to 5250	Pass
			50	3.85	5240.020	5150 to 5250	Pass
		5260	20	3.6	5260.040	5250 to 5350	Pass
				3.85	5260.060	5250 to 5350	Pass
				4.4	5260.040	5250 to 5350	Pass
			-30	3.85	5260.020	5250 to 5350	Pass
			-20	3.85	5260.040	5250 to 5350	Pass
			-10	3.85	5260.020	5250 to 5350	Pass
			0	3.85	5260.040	5250 to 5350	Pass
			10	3.85	5260.020	5250 to 5350	Pass
			30	3.85	5260.100	5250 to 5350	Pass
			40	3.85	5260.000	5250 to 5350	Pass
			50	3.85	5260.020	5250 to 5350	Pass
		5300	20	3.6	5300.060	5250 to 5350	Pass
				3.85	5300.000	5250 to 5350	Pass
				4.4	5299.980	5250 to 5350	Pass
			-30	3.85	5300.000	5250 to 5350	Pass
			-20	3.85	5300.040	5250 to 5350	Pass
			-10	3.85	5299.980	5250 to 5350	Pass
			0	3.85	5300.020	5250 to 5350	Pass
			10	3.85	5300.020	5250 to 5350	Pass
			30	3.85	5299.920	5250 to 5350	Pass
			40	3.85	5300.020	5250 to 5350	Pass
			50	3.85	5299.980	5250 to 5350	Pass
		5320	20	3.6	5319.940	5250 to 5350	Pass
				3.85	5319.960	5250 to 5350	Pass



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