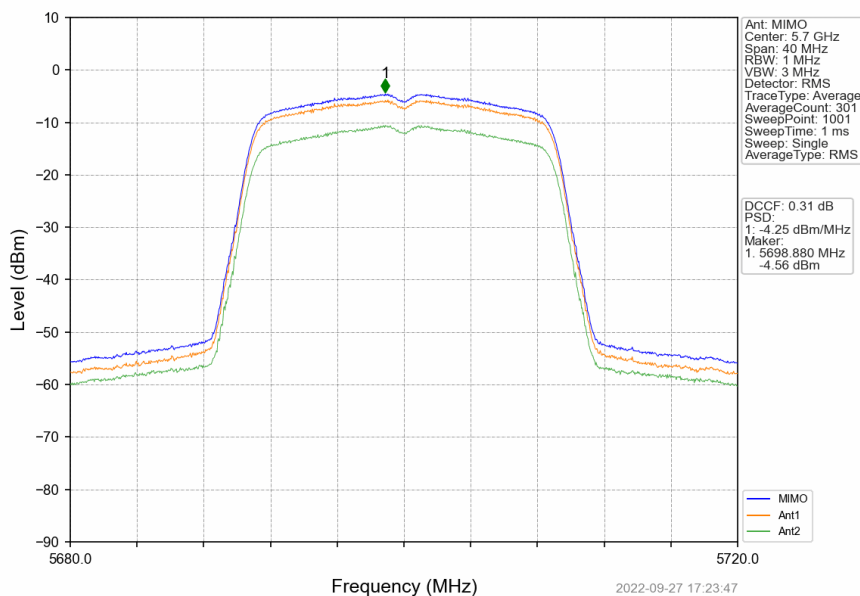
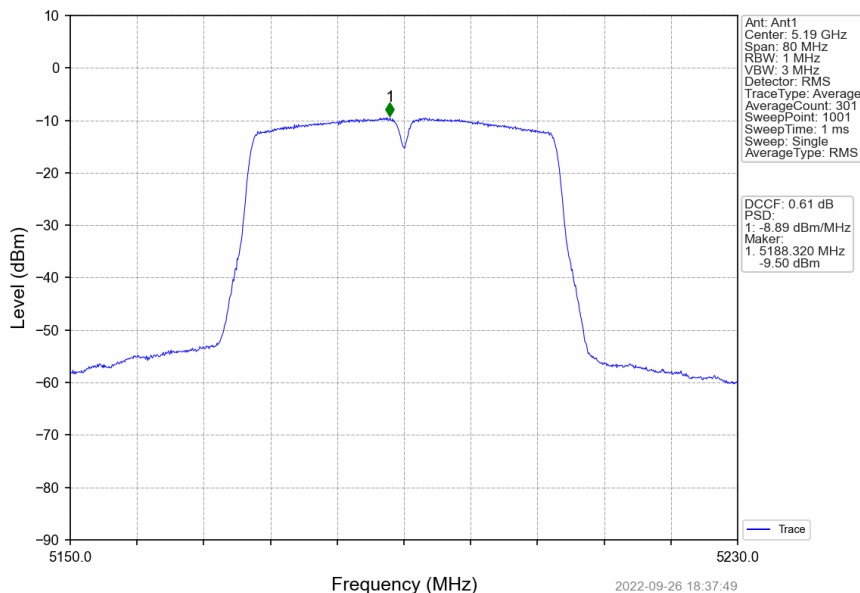


802.11ac(VHT20)_HCH_5700MHz_MIMO_NTNV



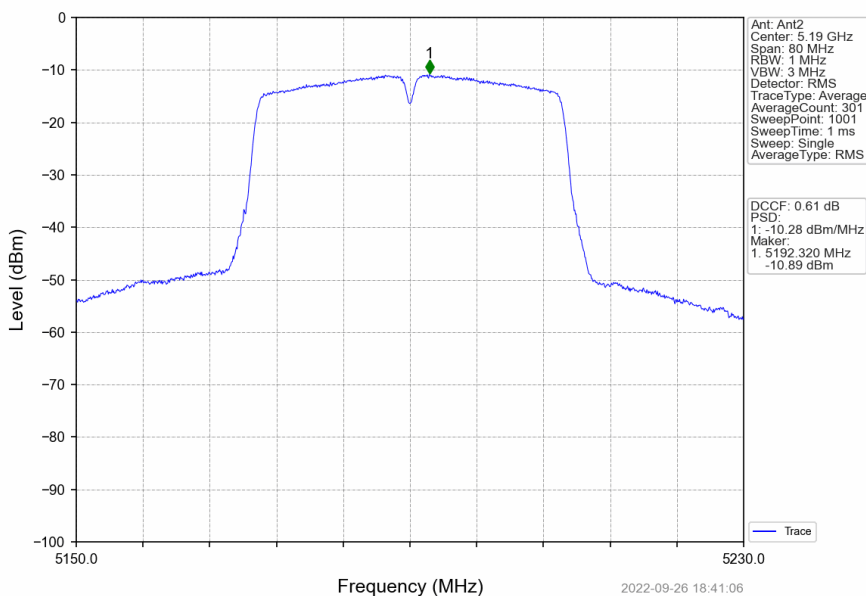
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



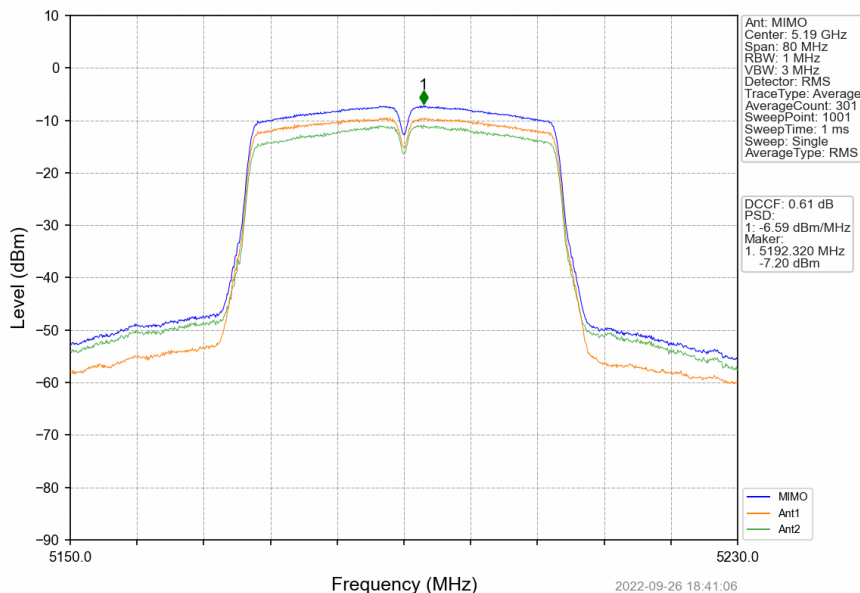
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802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



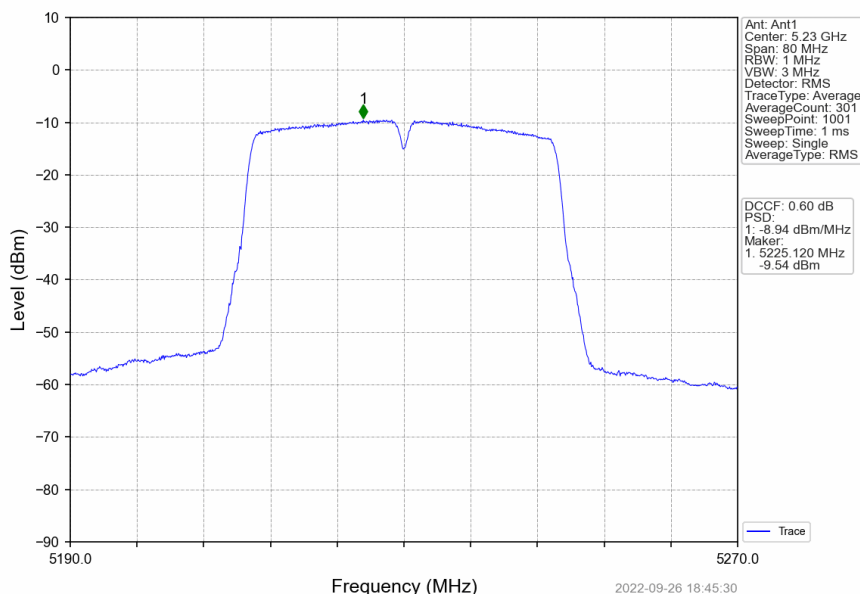
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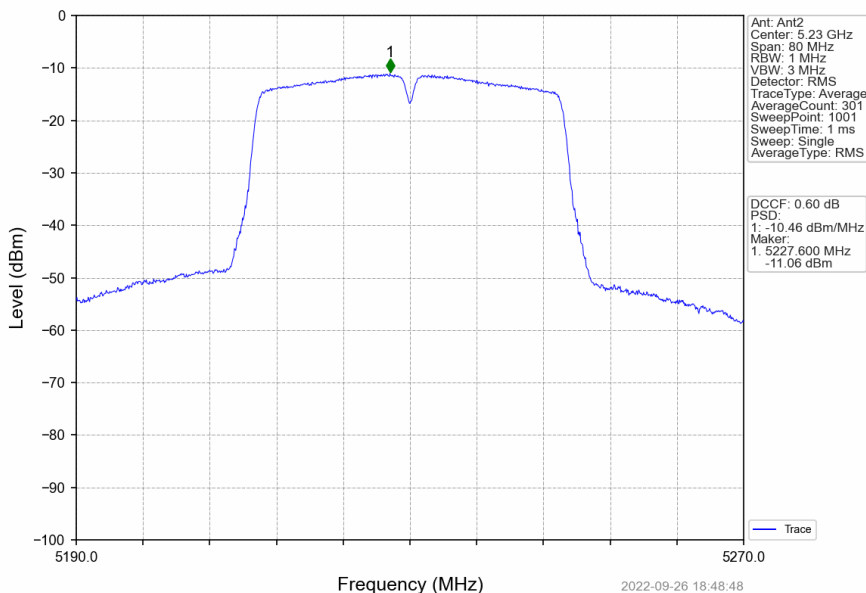
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV

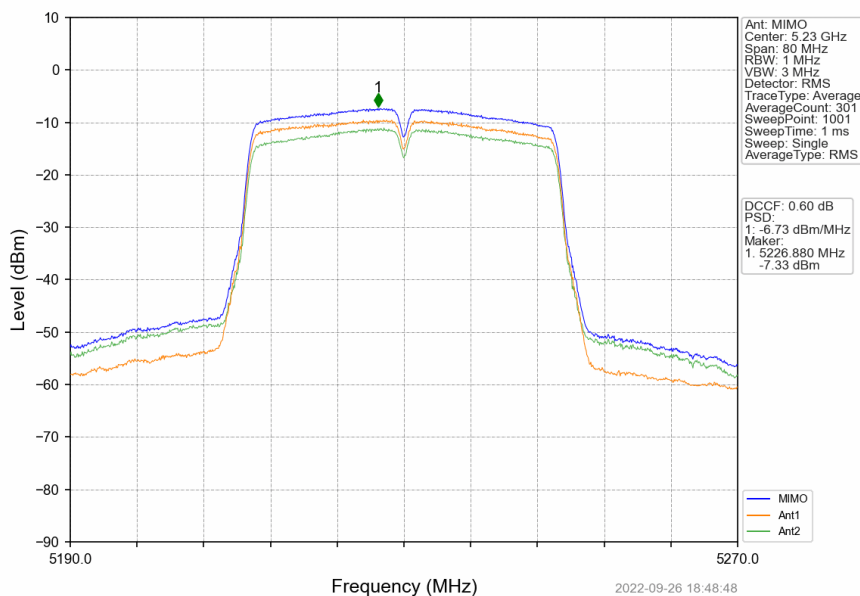


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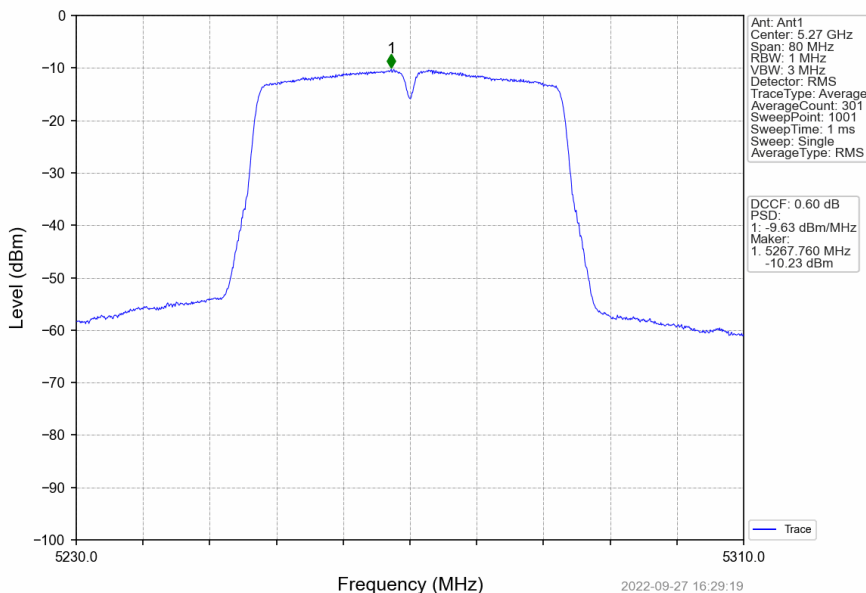
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802.11ac(VHT40)_HCH_5230MHz_MIMO_NTNV



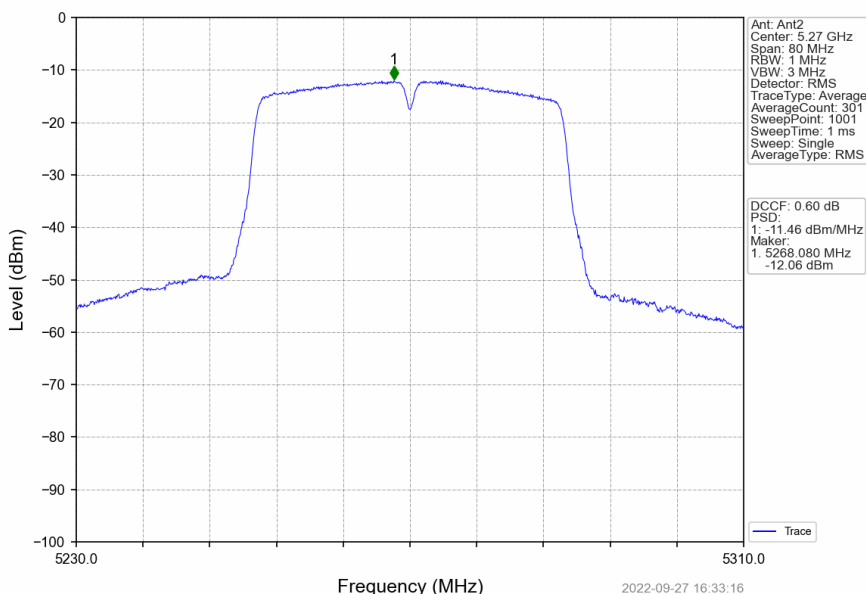
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



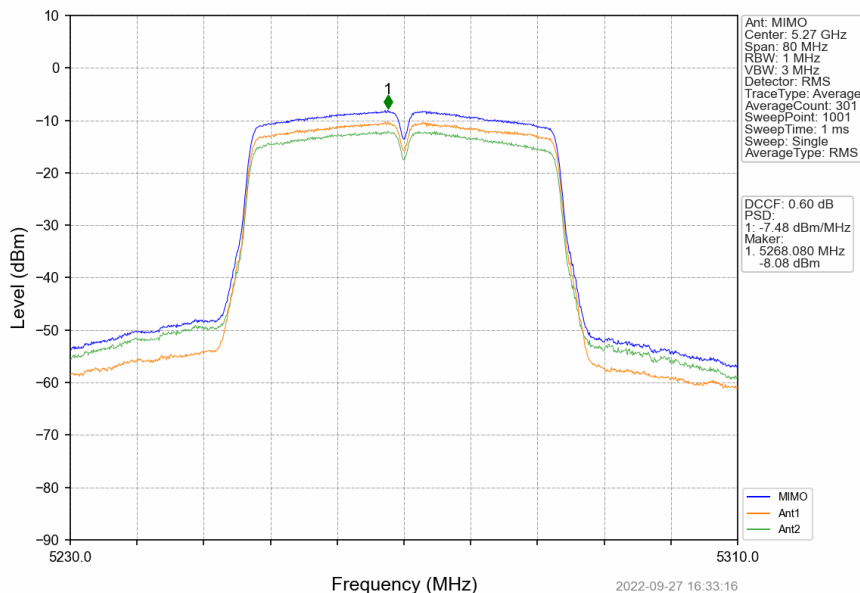
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802.11ac(VHT40)_LCH_5270MHz_Ant2_NTNV



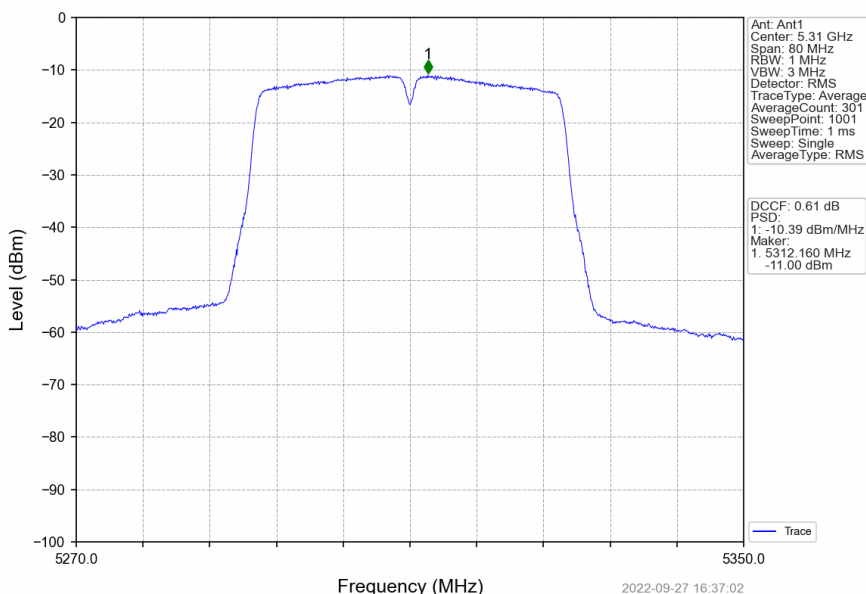
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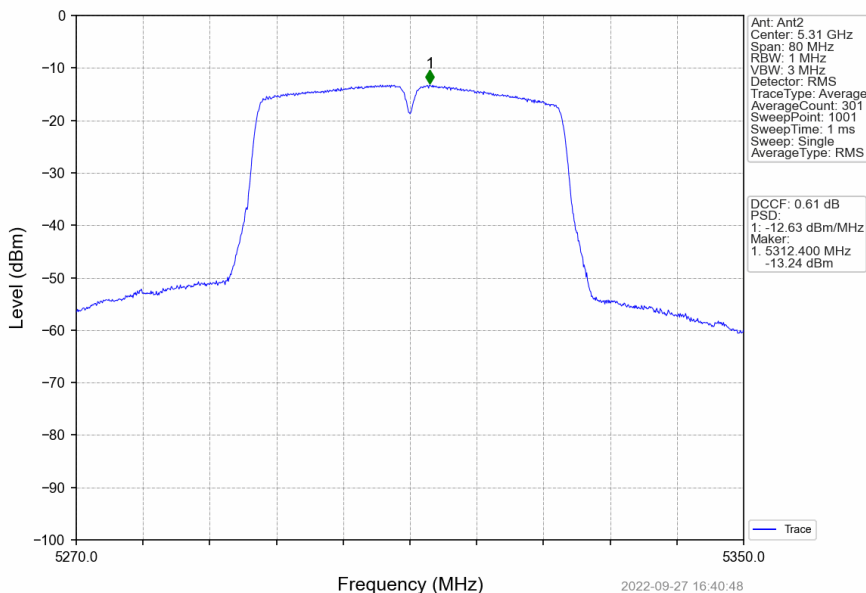
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant2_NTNV

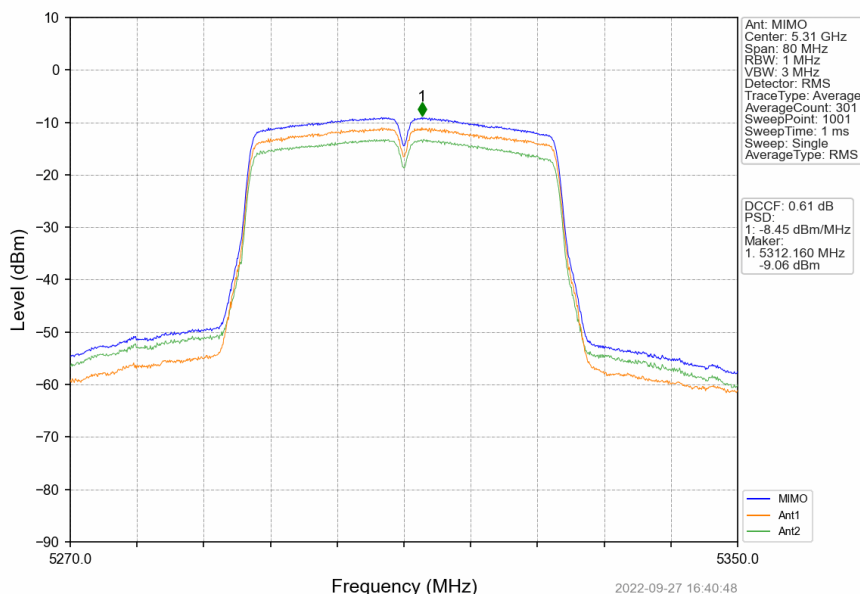


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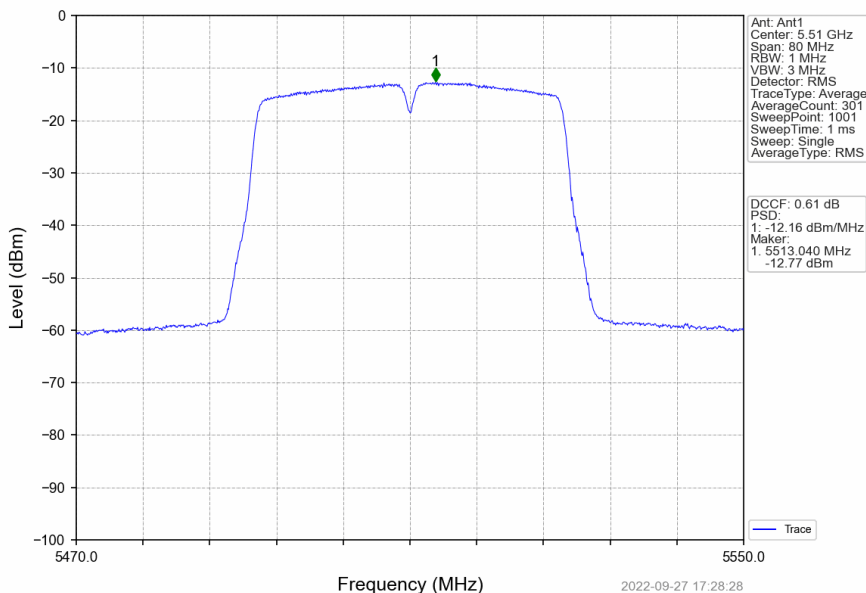
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802.11ac(VHT40)_HCH_5310MHz_MIMO_NTNV



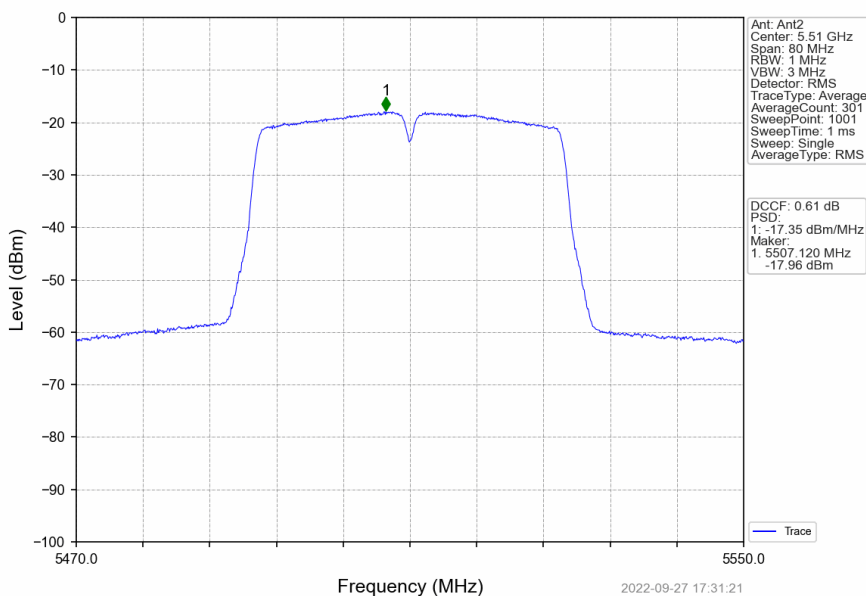
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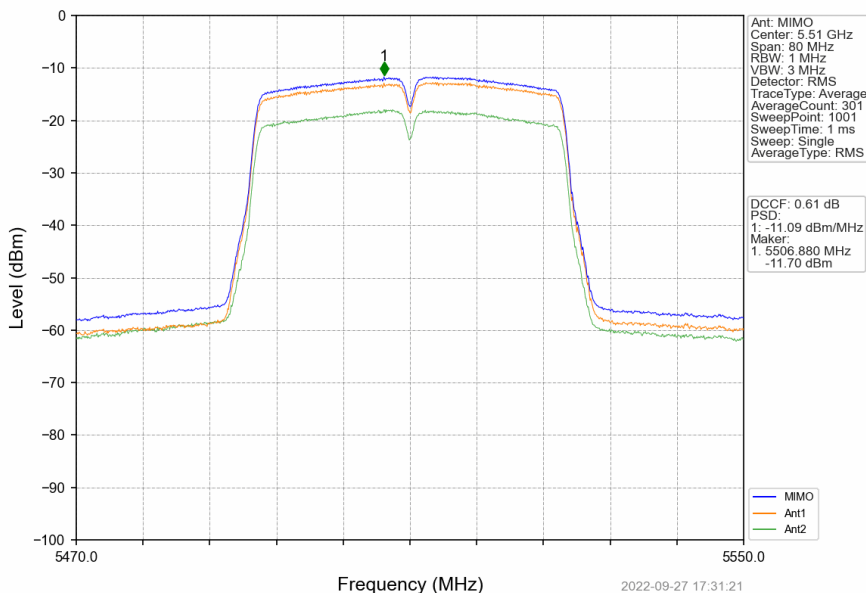
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802.11ac(VHT40)_LCH_5510MHz_Ant2_NTNV



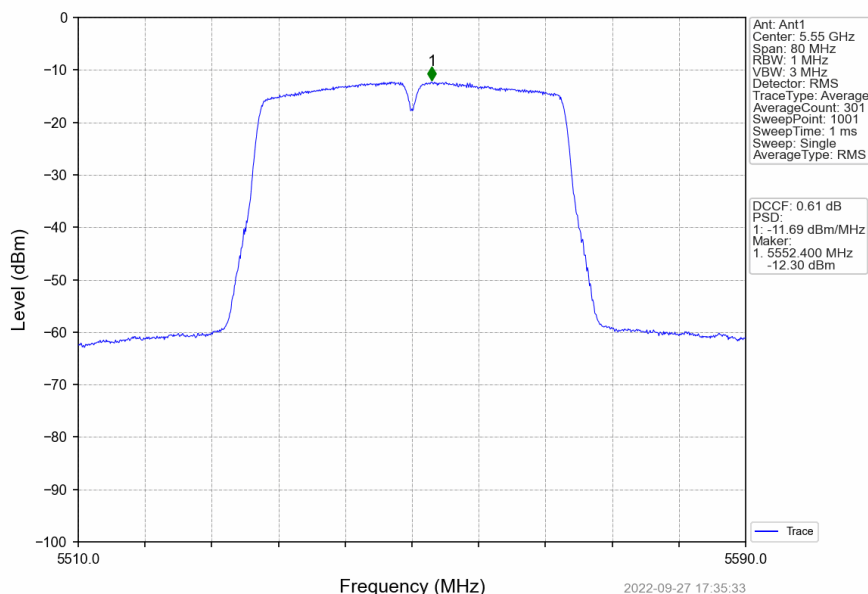
802.11ac(VHT40)_LCH_5510MHz_MIMO_NTNV



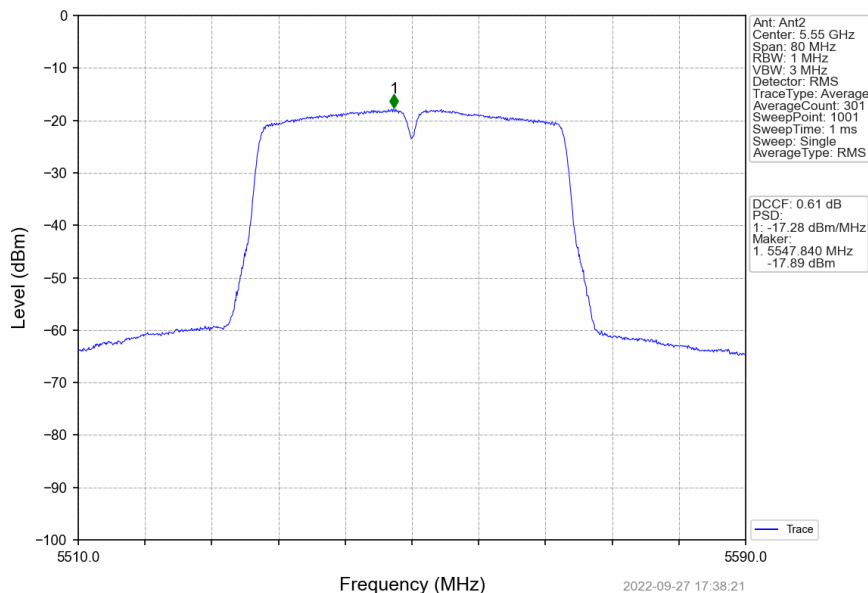
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5550MHz_Ant2_NTNV

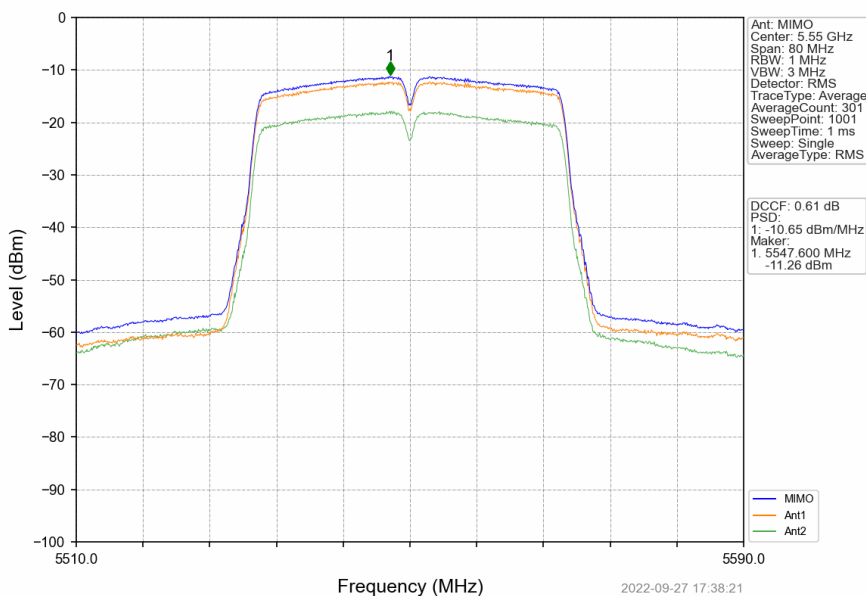


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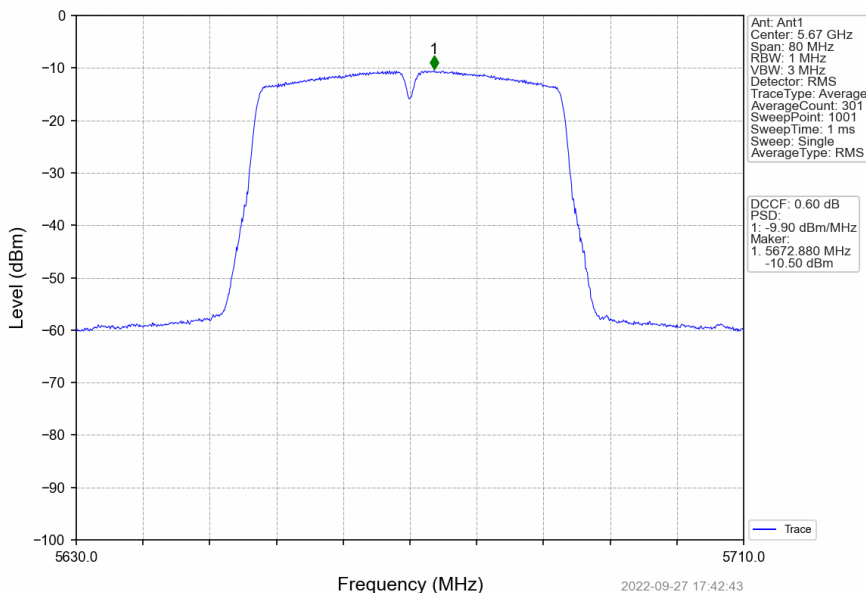
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802.11ac(VHT40)_MCH_5550MHz_MIMO_NTNV



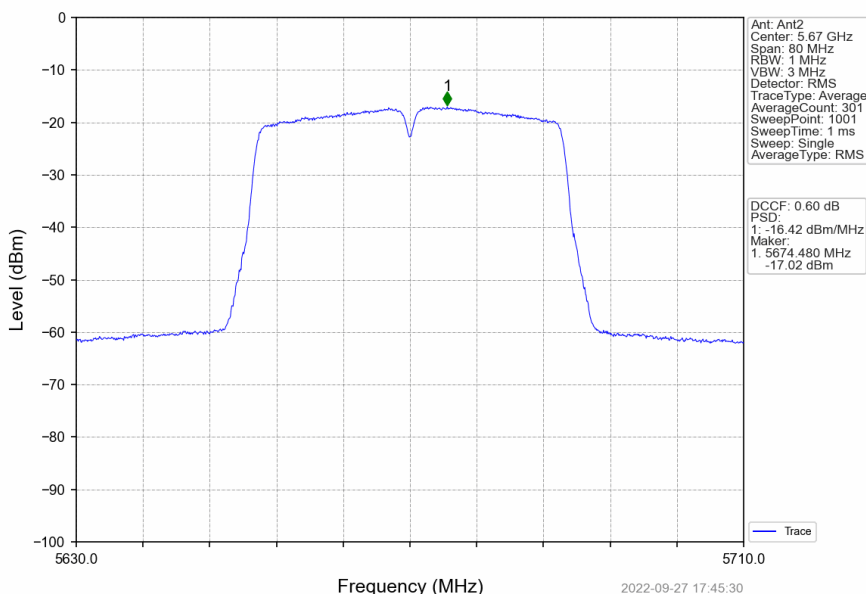
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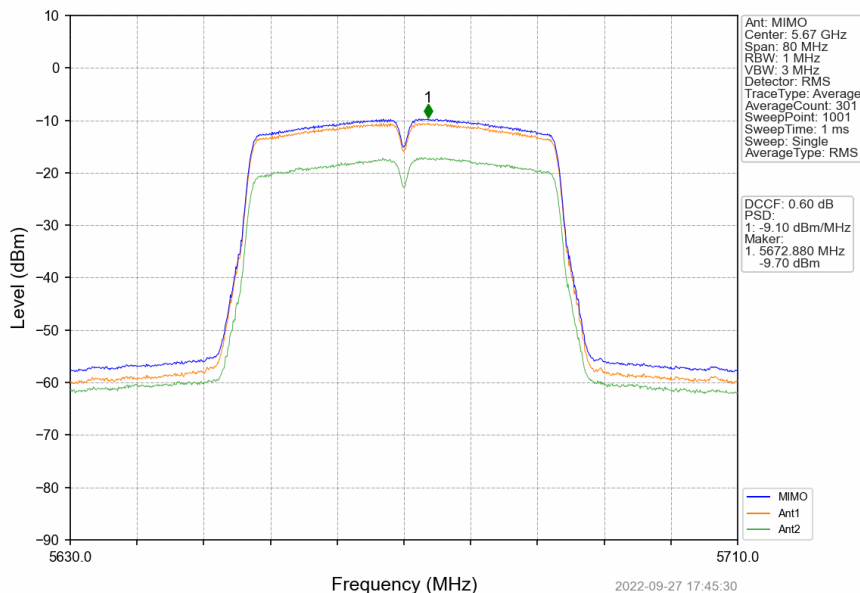
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802.11ac(VHT40)_HCH_5670MHz_Ant2_NTNV



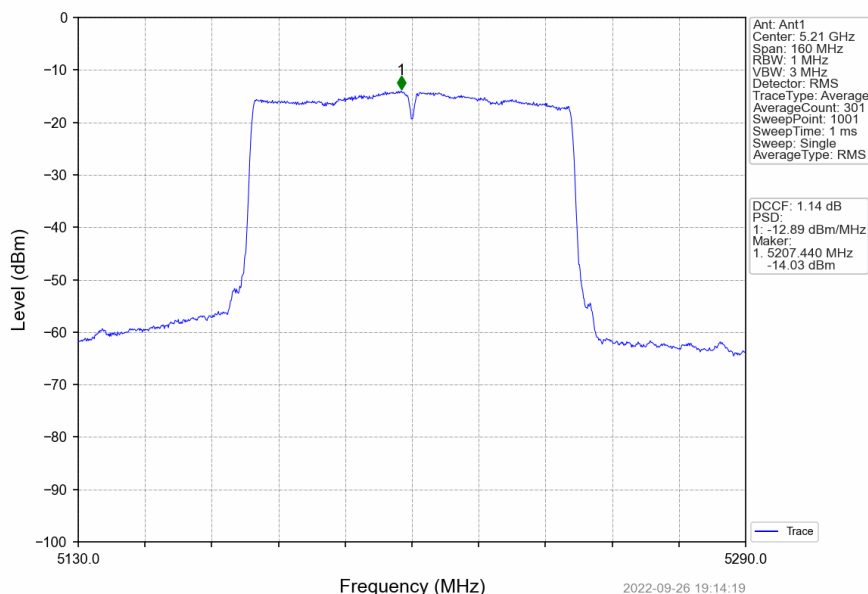
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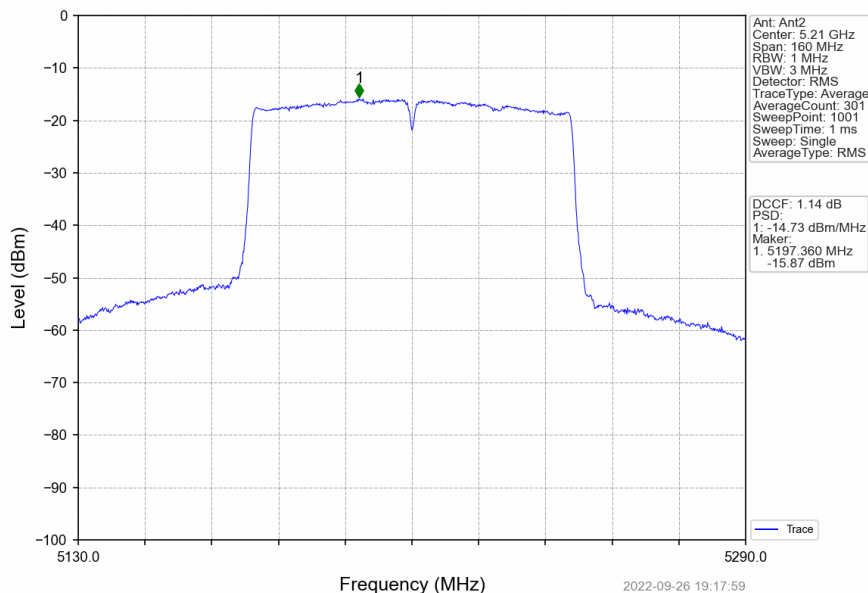
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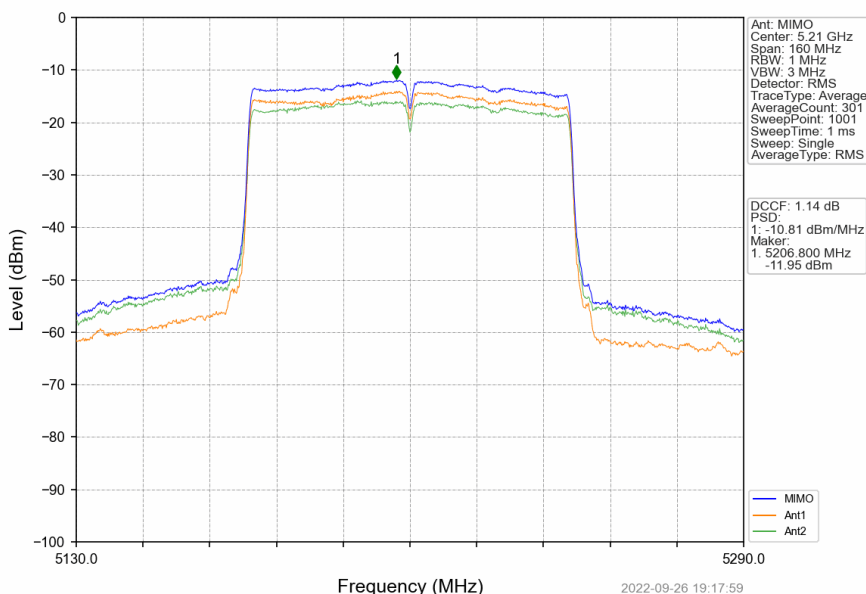
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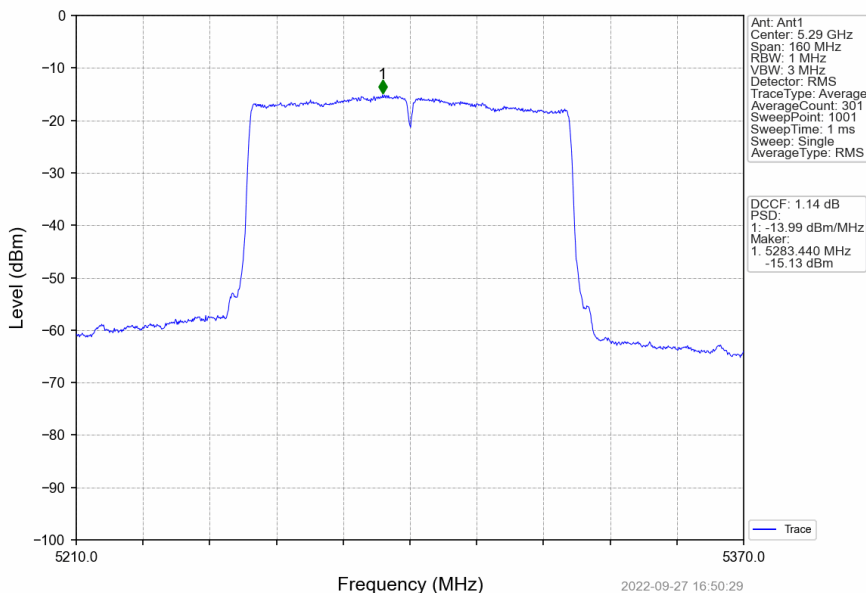
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802.11ac(VHT80)_MCH_5210MHz_MIMO_NTNV



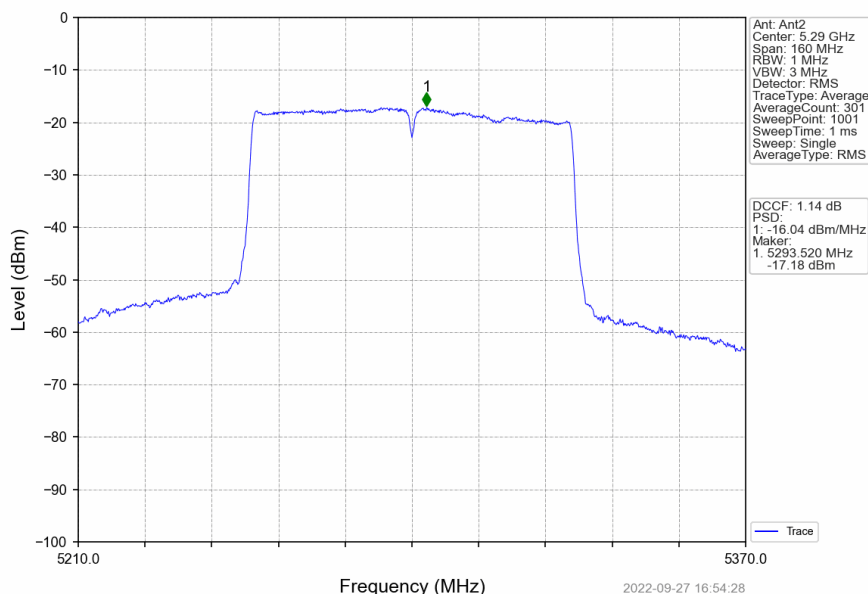
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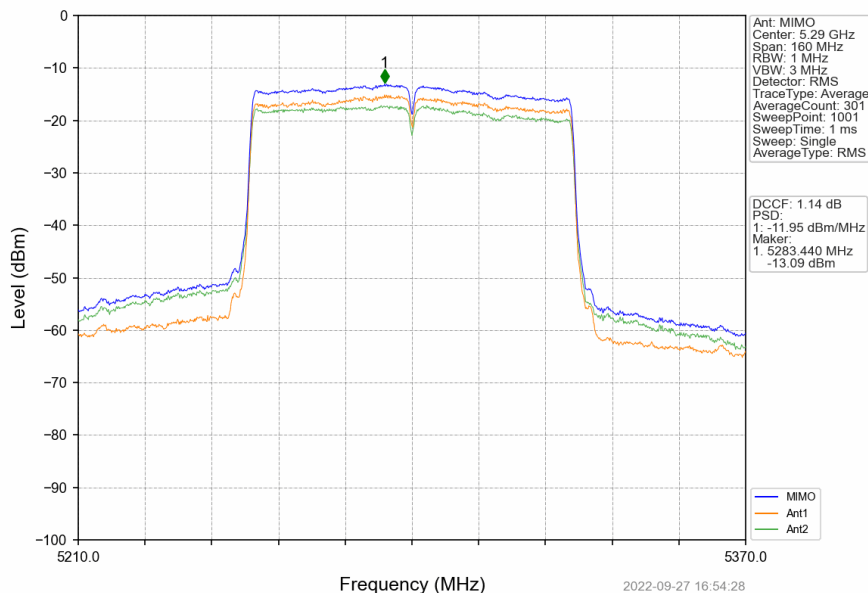
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802.11ac(VHT80)_MCH_5290MHz_Ant2_NTNV



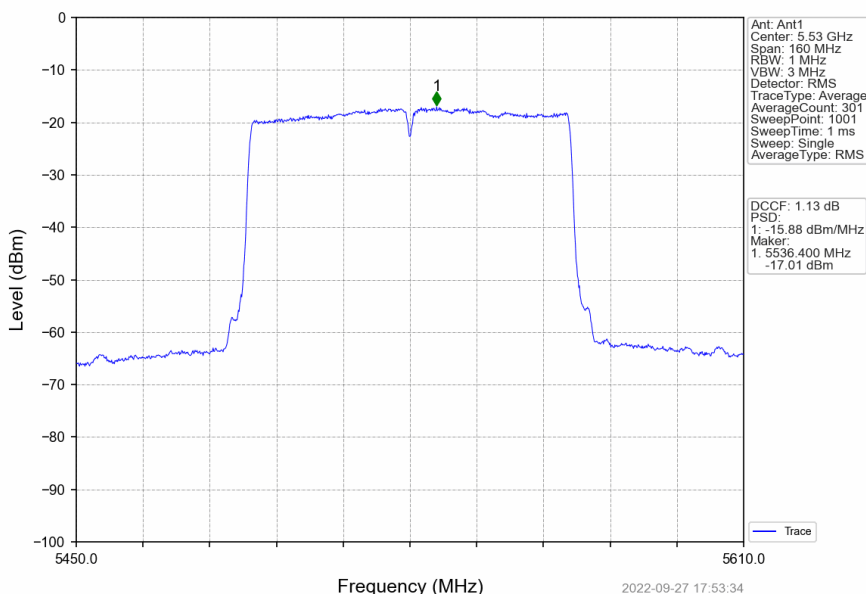
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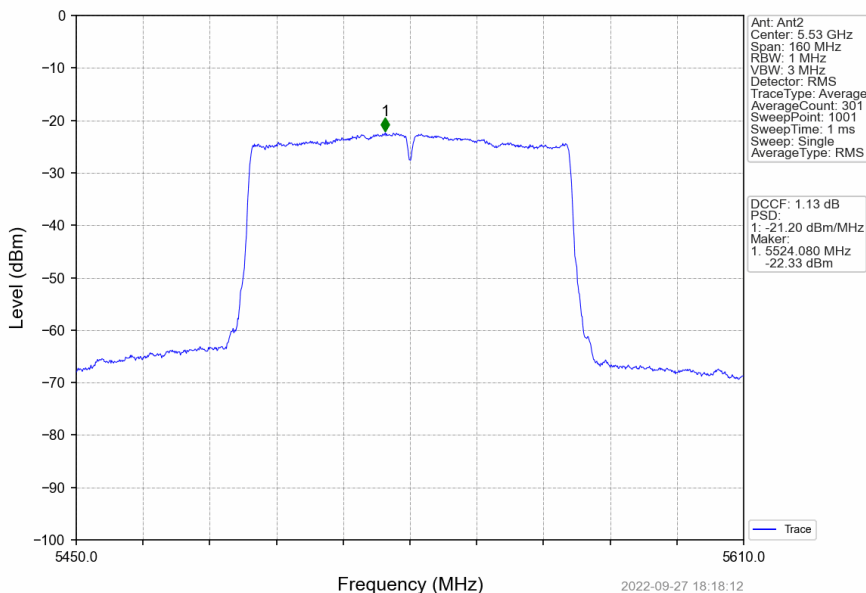
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant2_NTNV

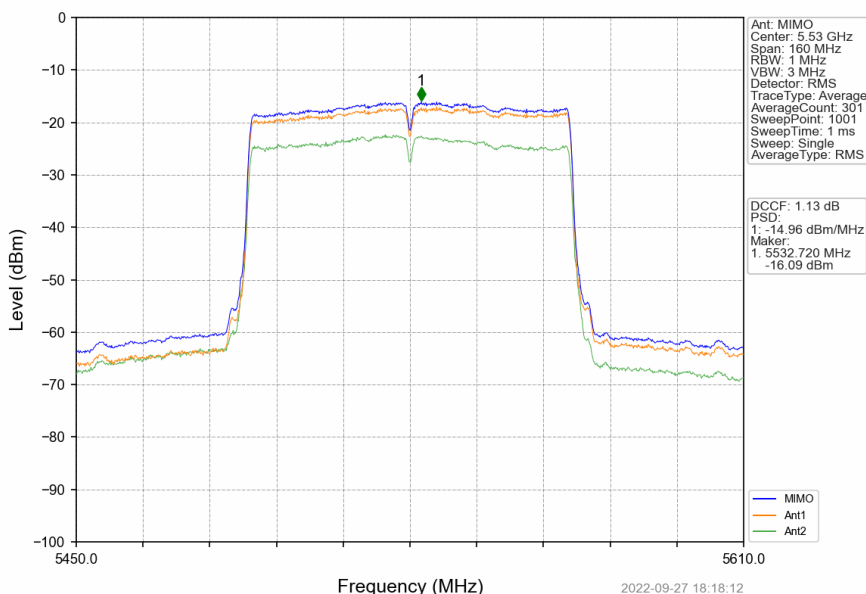


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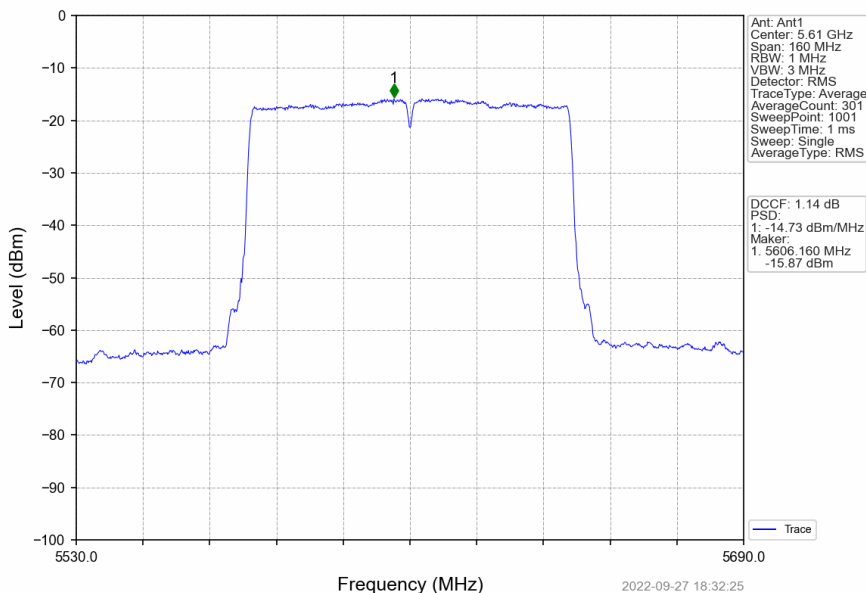
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802.11ac(VHT80)_LCH_5530MHz_MIMO_NTNV



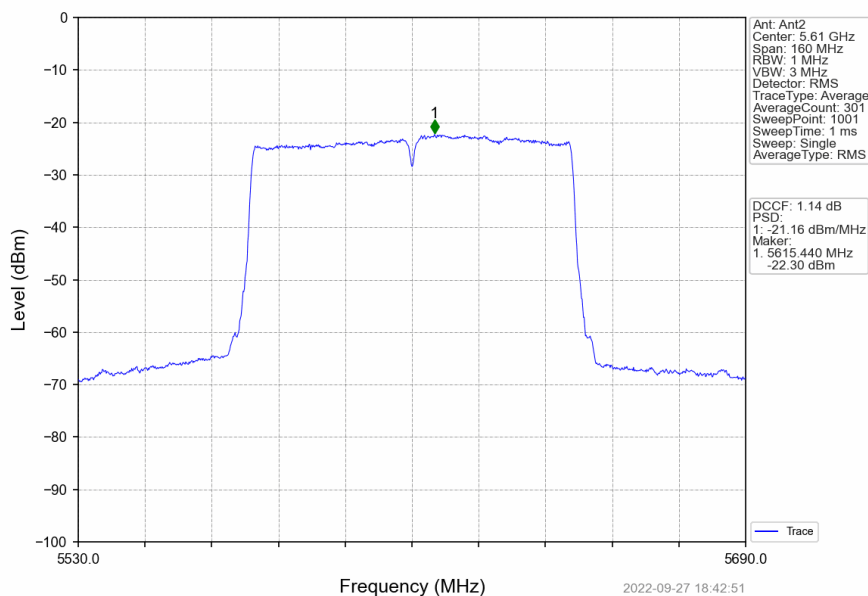
802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



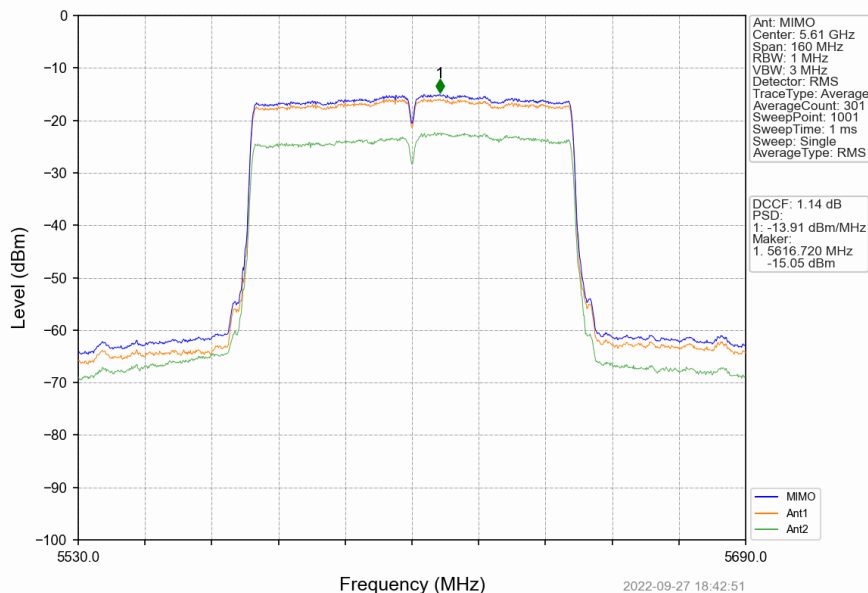
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802.11ac(VHT80)_HCH_5610MHz_Ant2_NTNV



802.11ac(VHT80)_HCH_5610MHz_MIMO_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	ANT2	MIMO	Limit	
802.11a	SISO	5745	-6.88	-12.06	/	<=30	Pass
		5785	-7.30	-12.98	/	<=30	Pass
		5825	-8.66	-14.08	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-7.94	-13.21	-6.83	<=30	Pass
		5785	-7.91	-13.51	-6.93	<=30	Pass
		5825	-9.61	-15.00	-8.57	<=30	Pass
802.11n (HT40)	MIMO	5755	-12.32	-17.16	-11.14	<=30	Pass
		5795	-12.58	-17.50	-11.44	<=30	Pass
802.11ac (VHT20)	MIMO	5745	-7.68	-12.82	-6.62	<=30	Pass
		5785	-7.88	-13.41	-6.85	<=30	Pass
		5825	-9.44	-14.99	-8.48	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-12.66	-18.03	-11.60	<=30	Pass
		5795	-12.77	-18.20	-11.73	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-16.05	-21.91	-15.09	<=30	Pass

Note1: Antenna Gain: Ant1: 0.36 dBi; Ant2: 0.36 dBi;

Note2: Directional Gain: 3.37 dBi

Ant1 PSD: Ant 1 PSD + duty cycle factor.

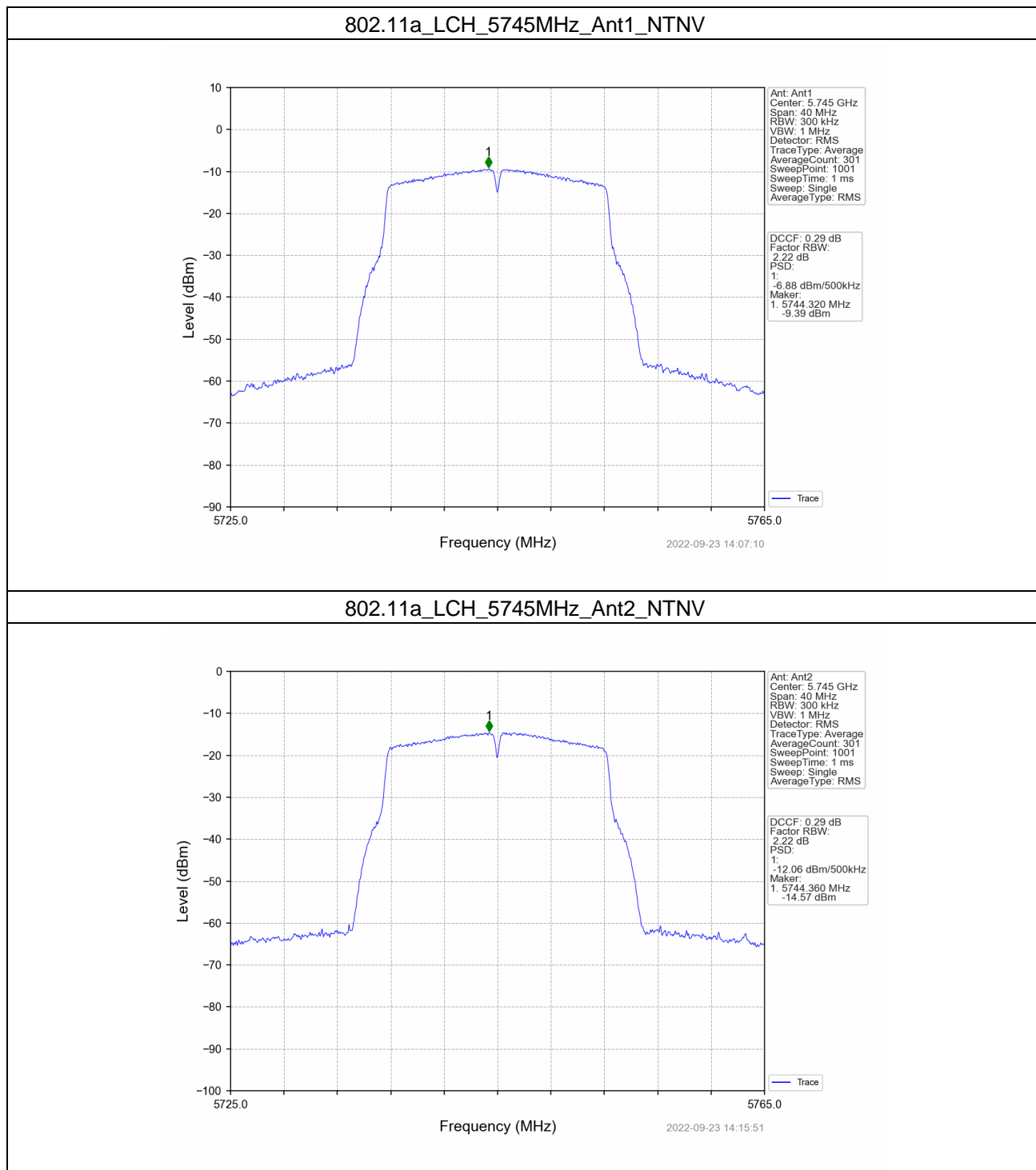
Ant2 PSD: Ant 2 PSD + duty cycle factor.

MIMO PSD: Ant 1 PSD + duty cycle factor + Ant 2 PSD + duty cycle factor.

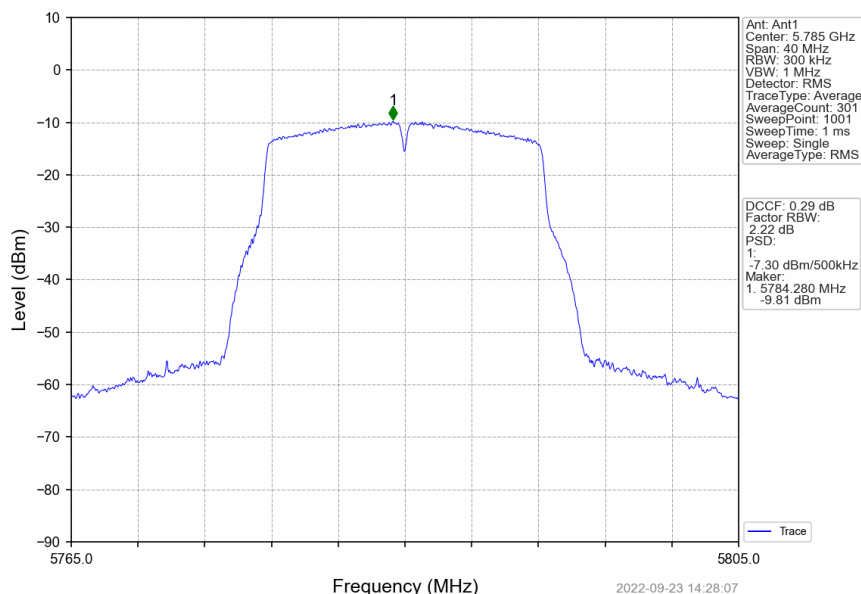
The Duty Cycle Factor is compensated in the test result.



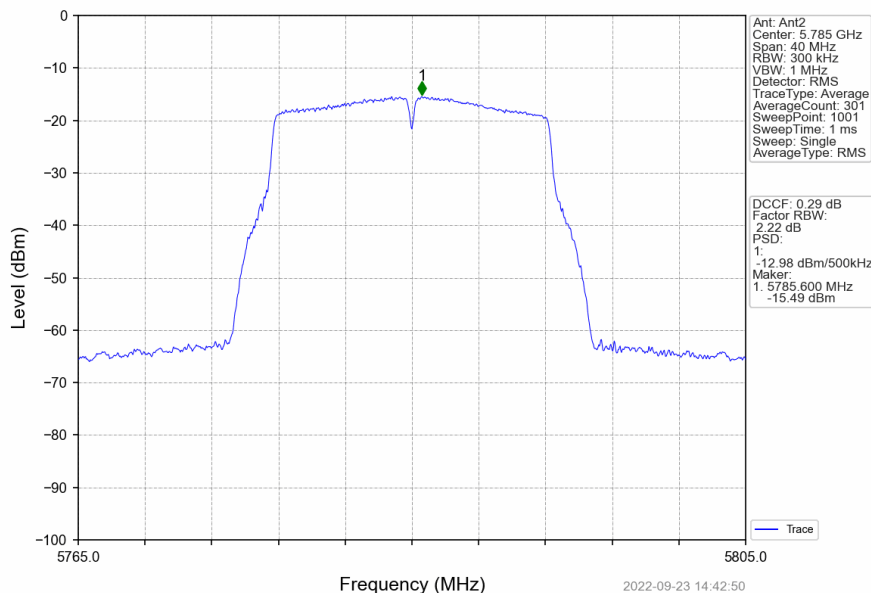
4.2.2 Test Graph



802.11a_MCH_5785MHz_Ant1_NTNV



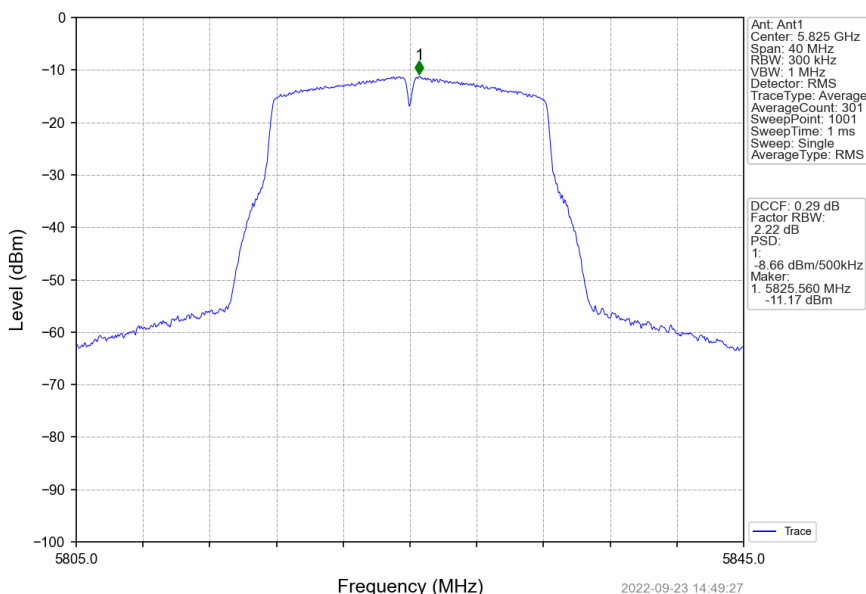
802.11a_MCH_5785MHz_Ant2_NTNV



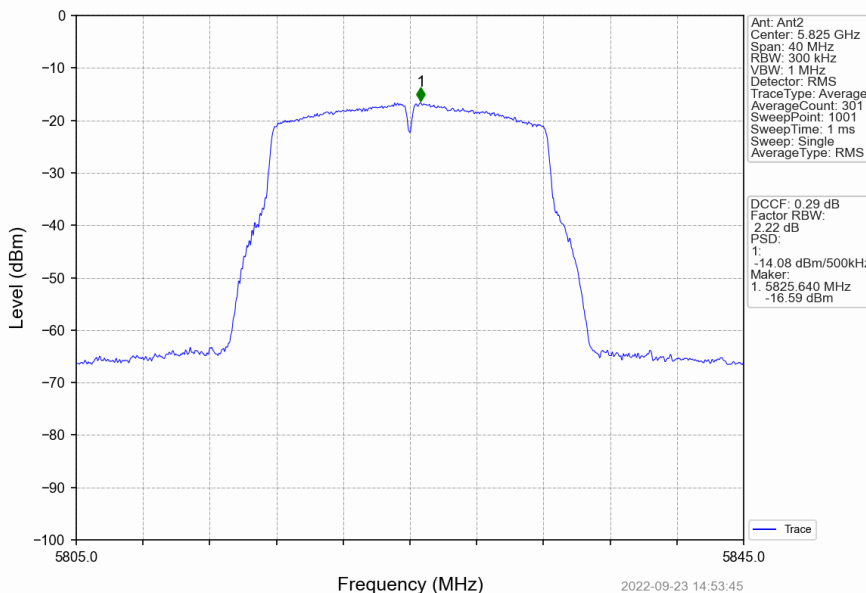
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802.11a_HCH_5825MHz_Ant1_NTNV



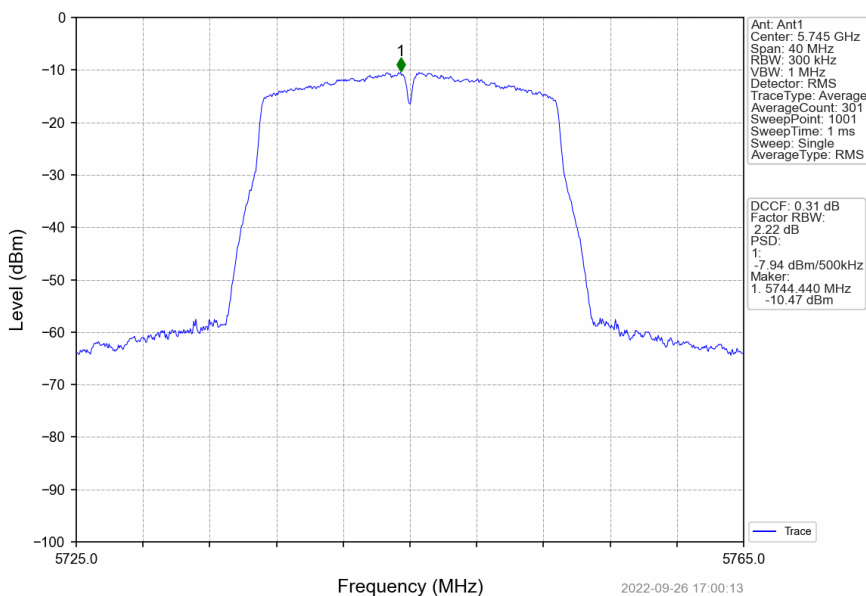
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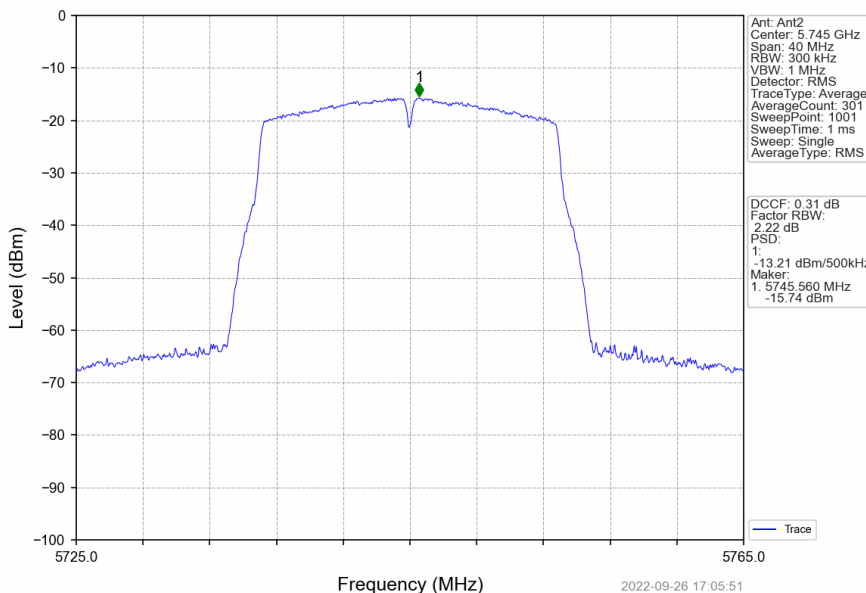
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV

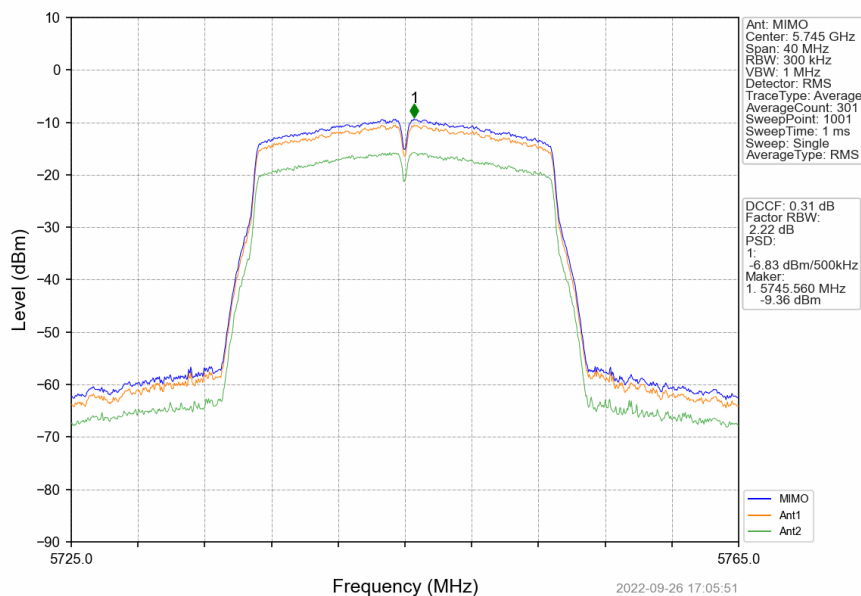


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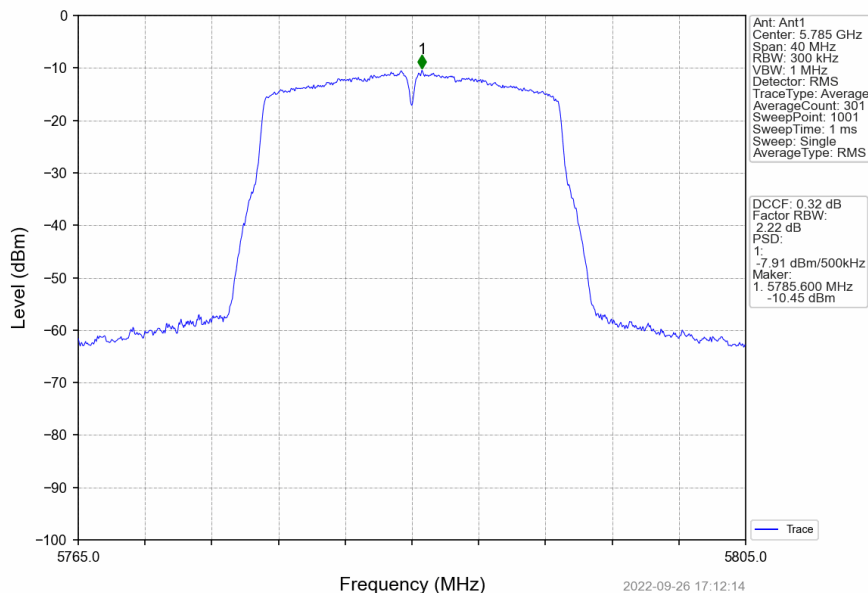
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802.11n(HT20)_LCH_5745MHz_MIMO_NTNV



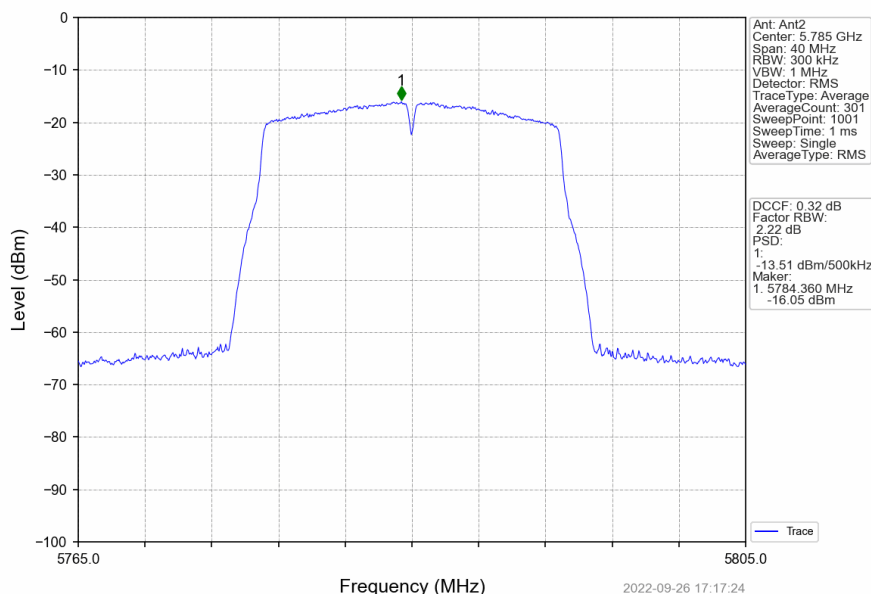
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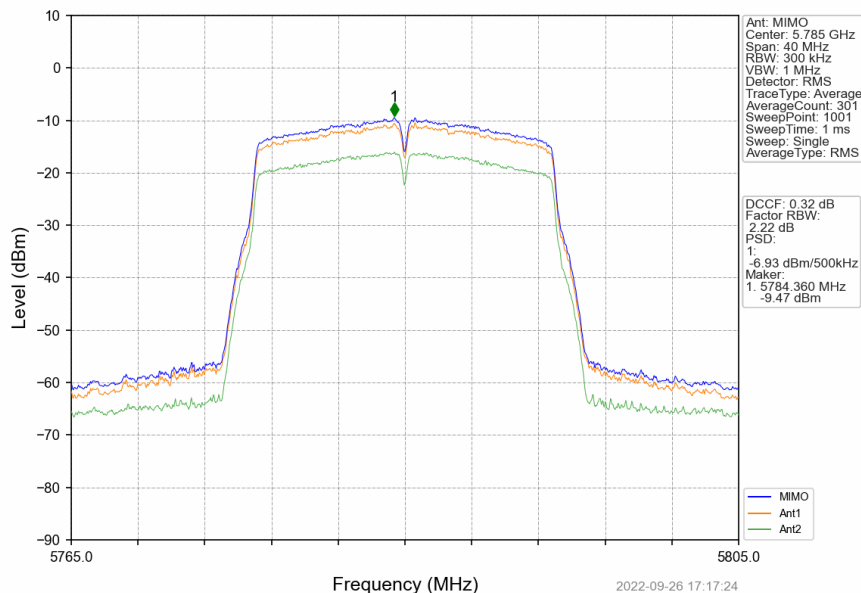
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802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



802.11n(HT20)_MCH_5785MHz_MIMO_NTNV

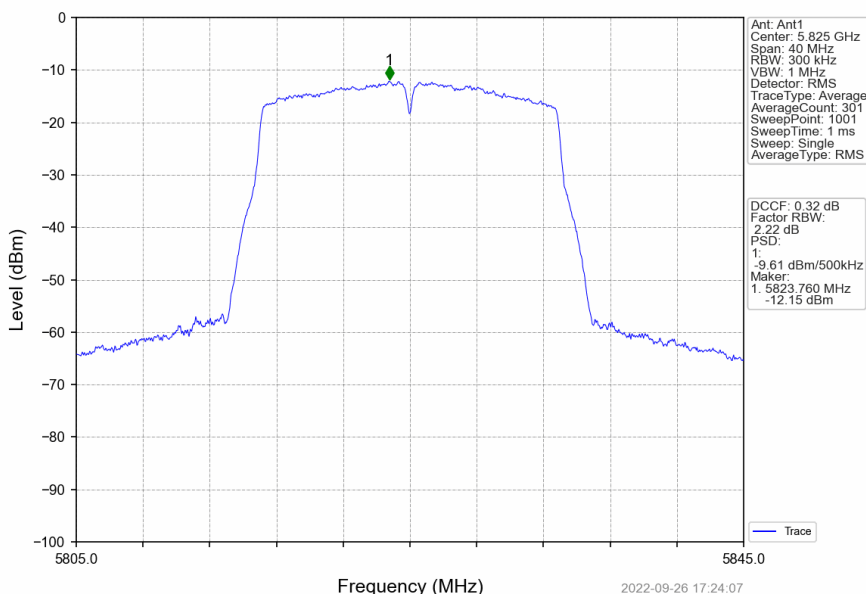


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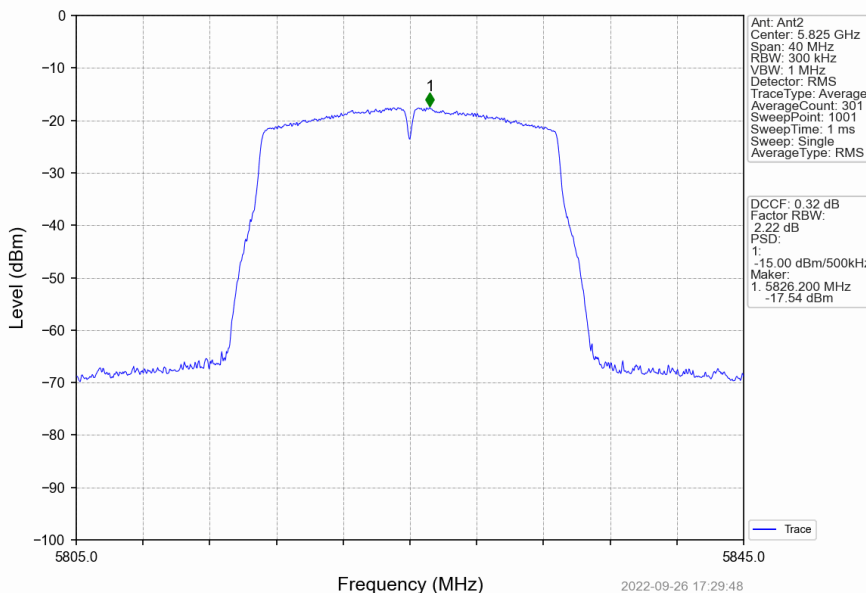
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



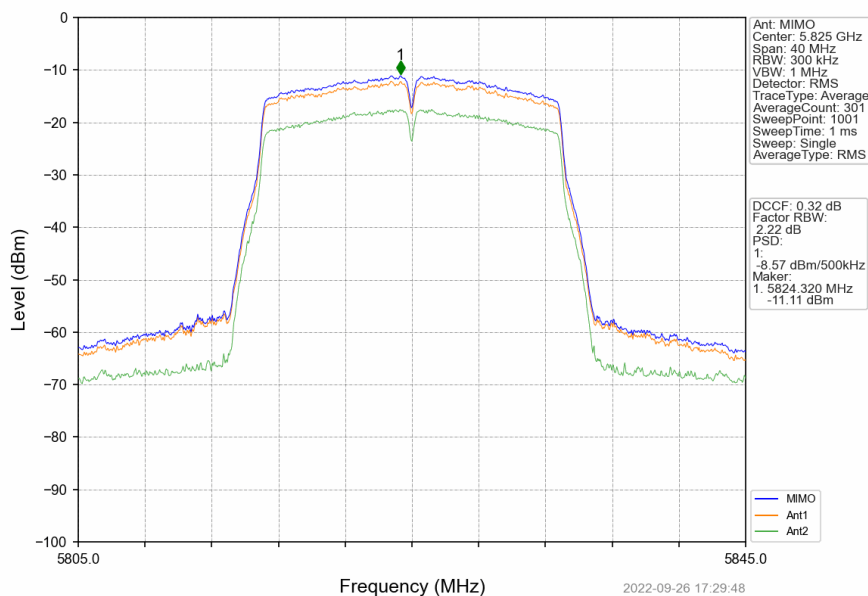
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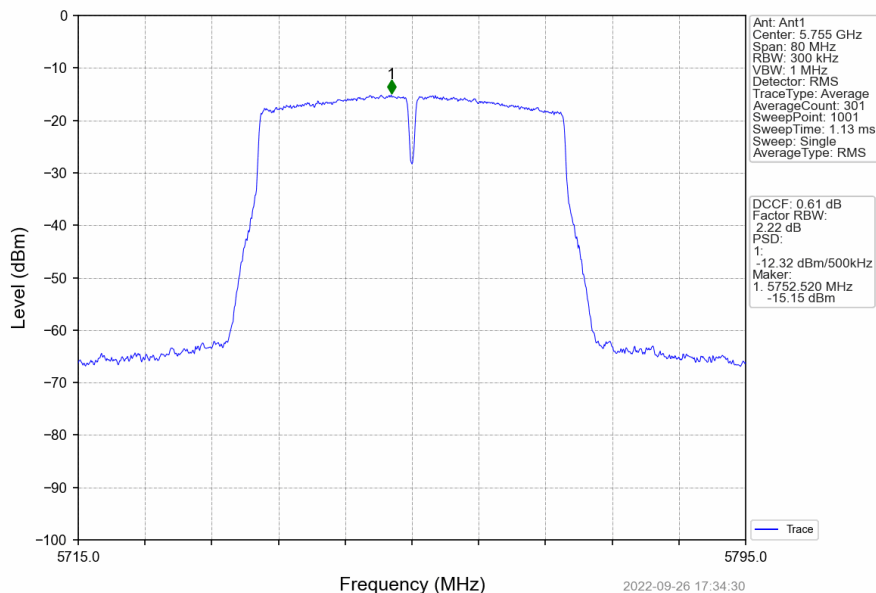
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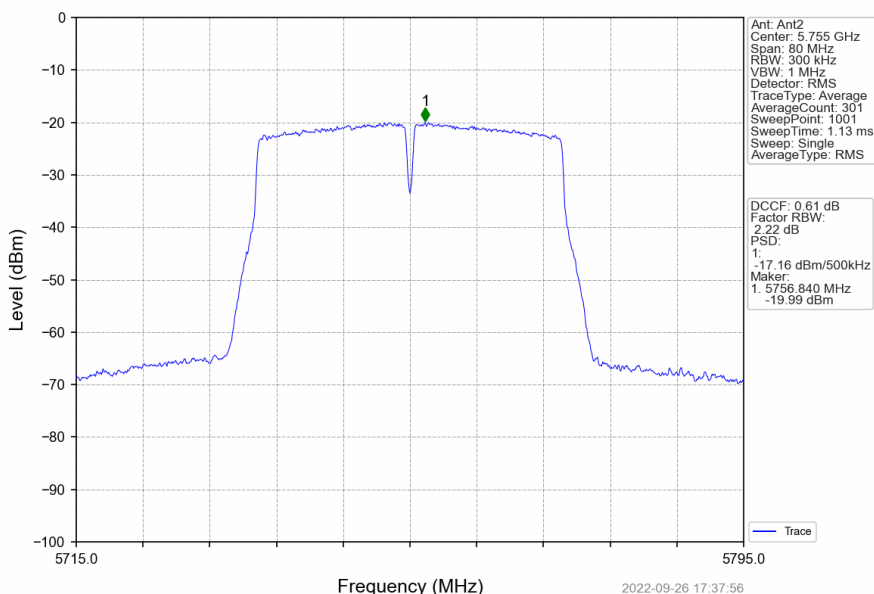
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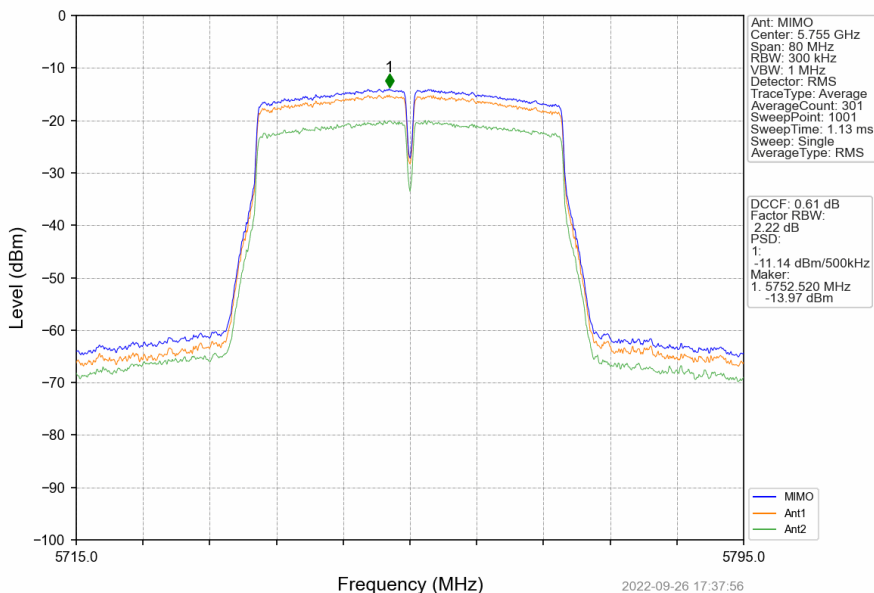
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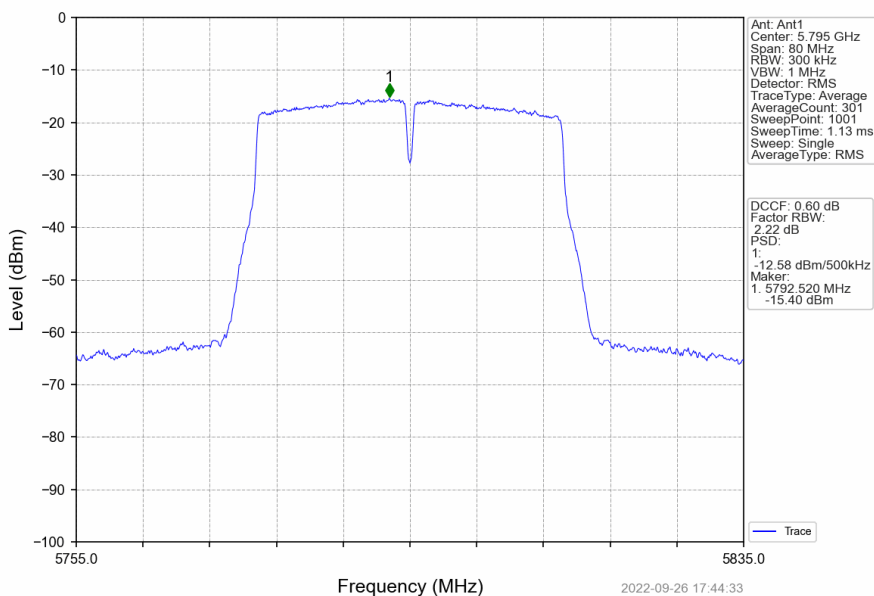


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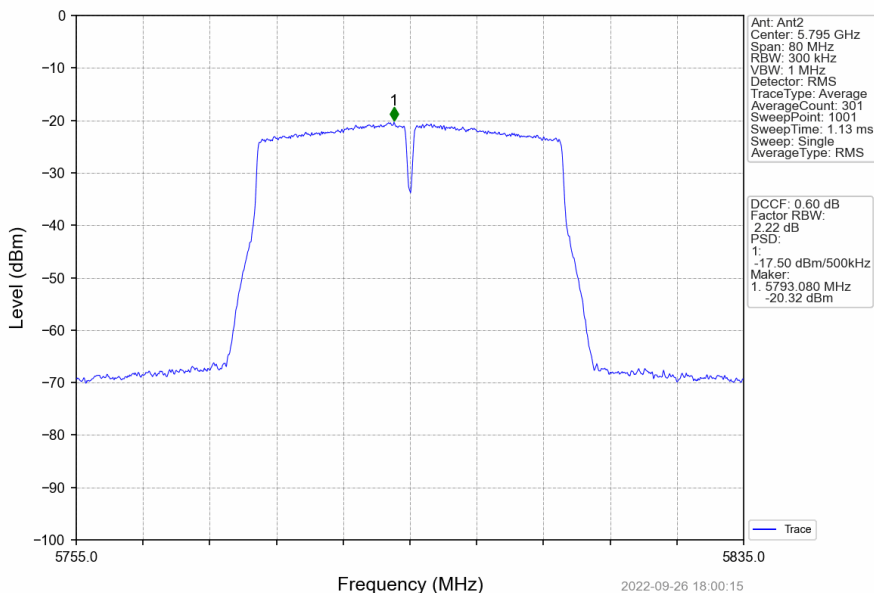
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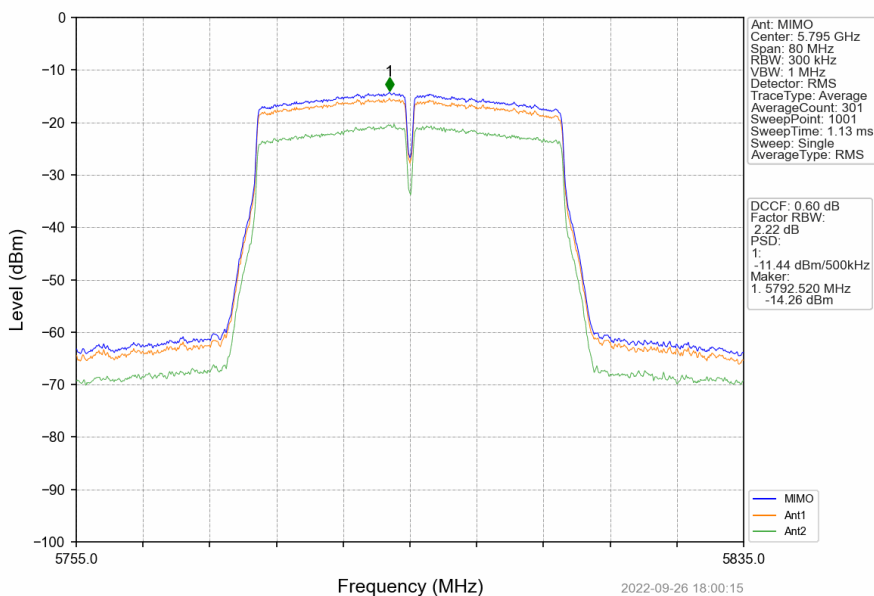
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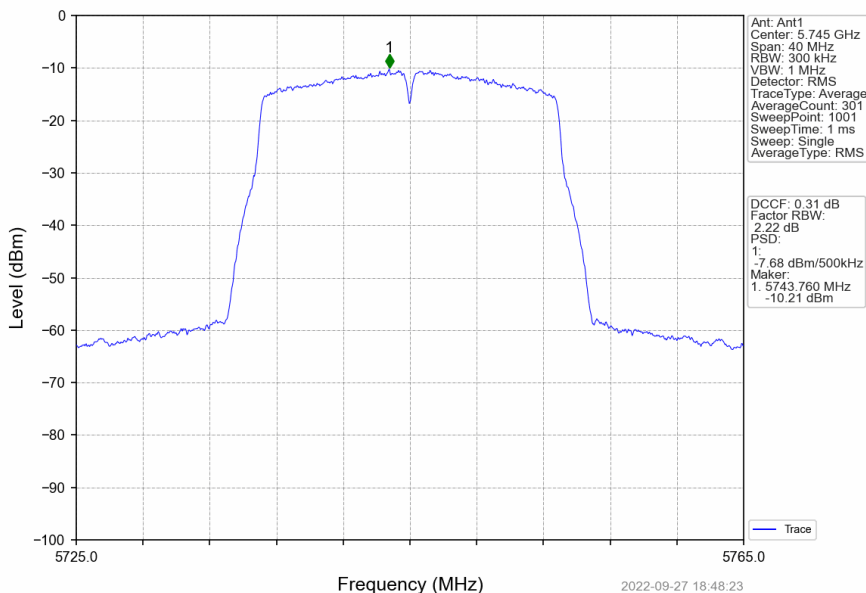
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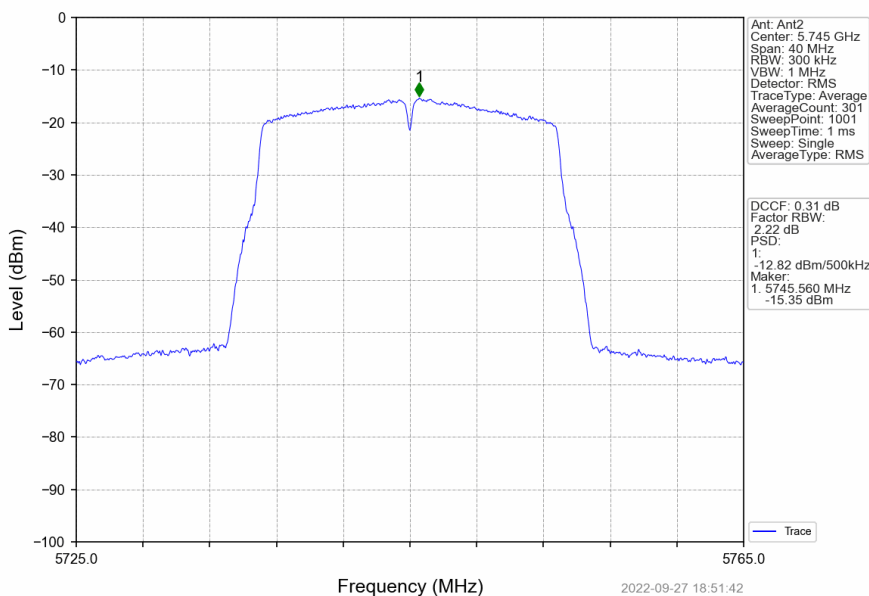
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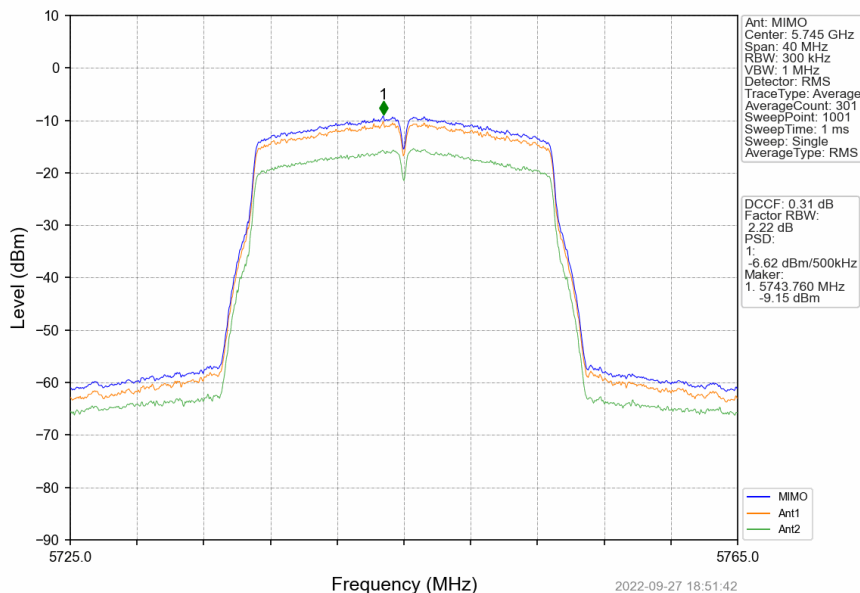
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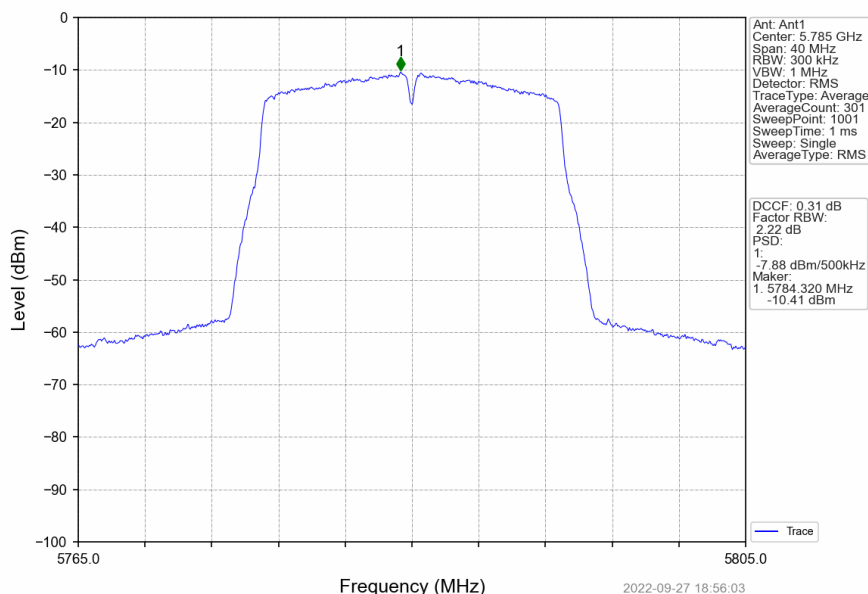
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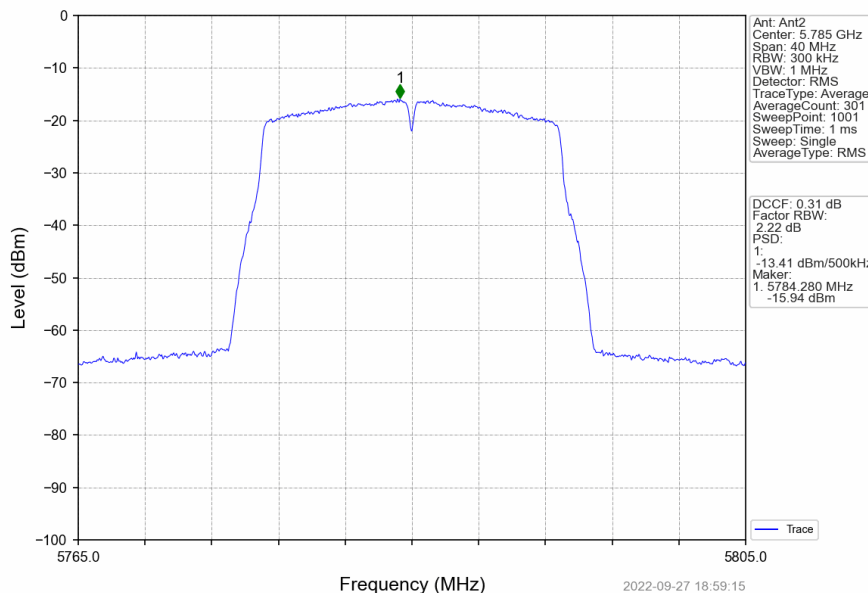
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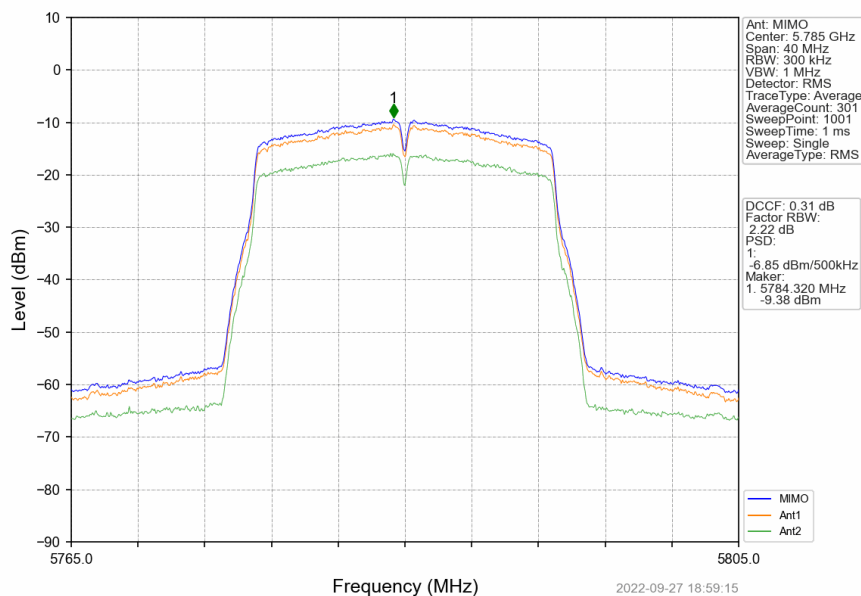
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



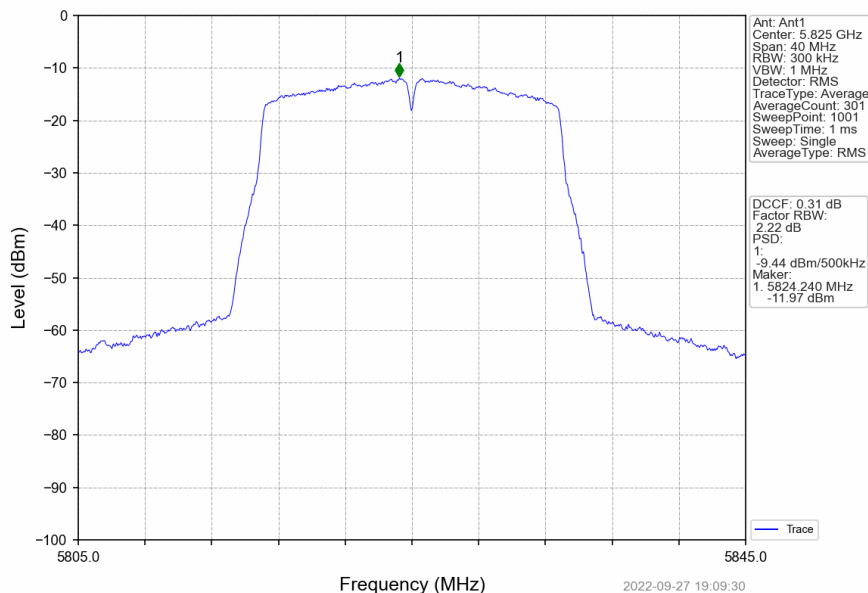
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802.11ac(VHT20)_MCH_5785MHz_MIMO_NTNV



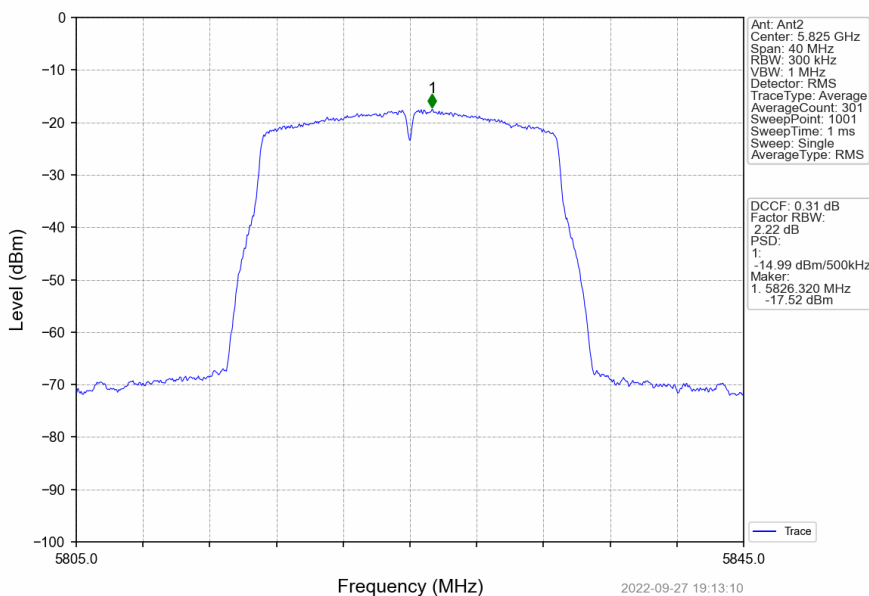
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



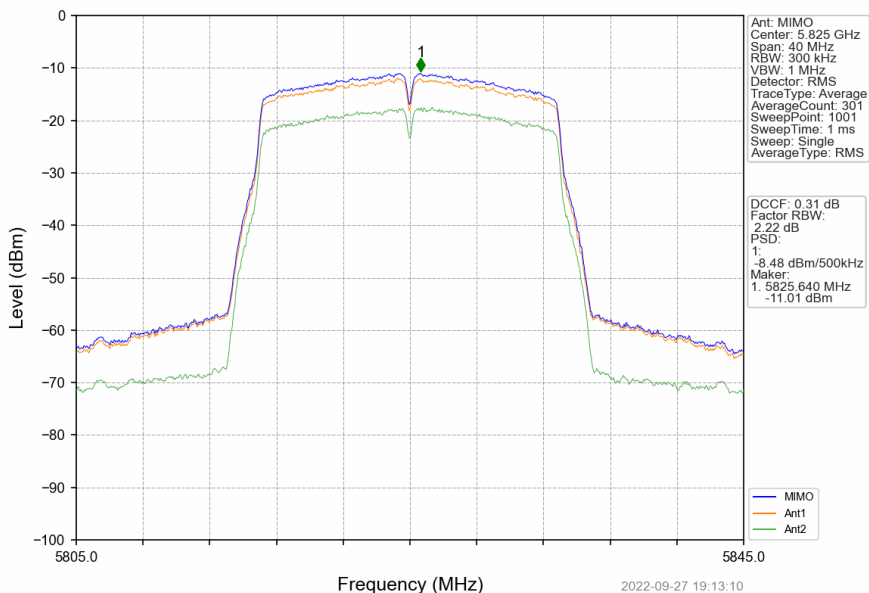
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802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



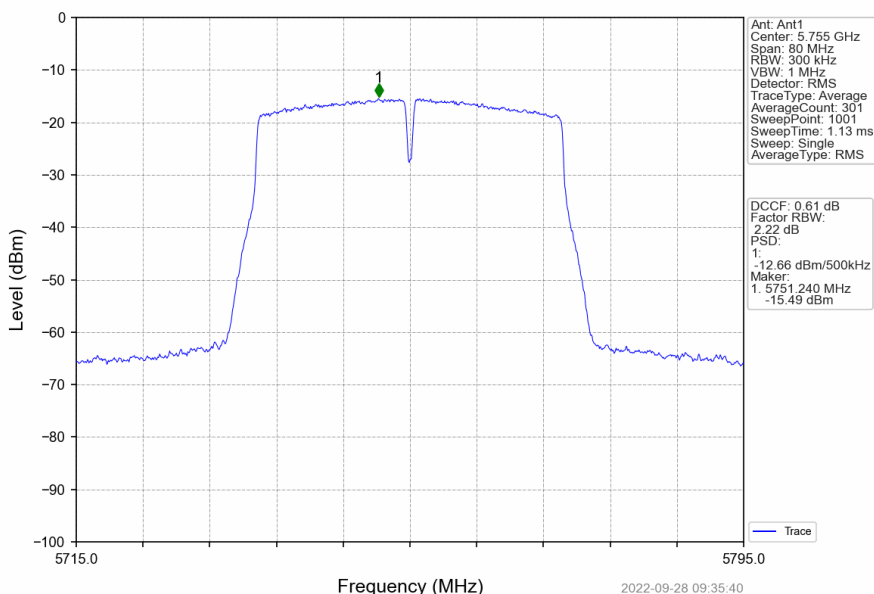
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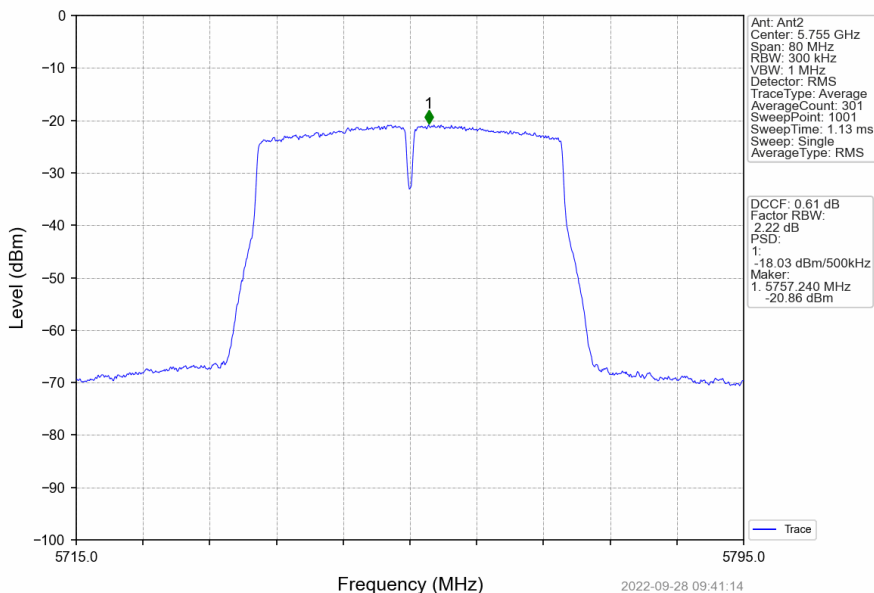
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



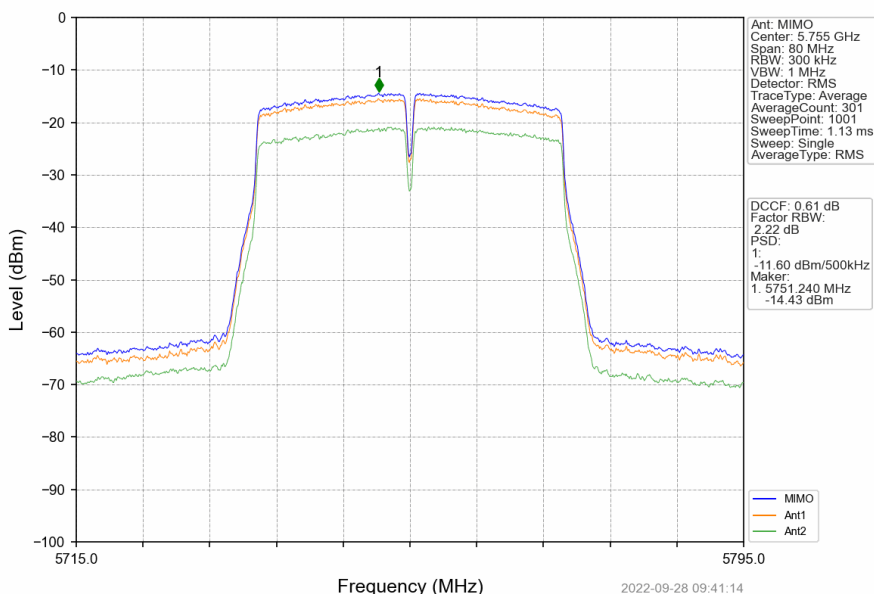
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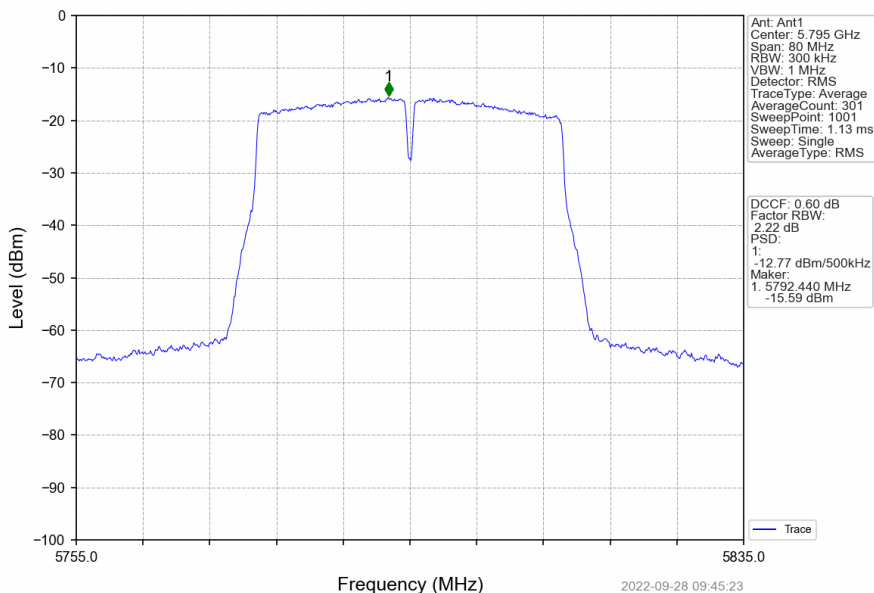
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802.11ac(VHT40)_LCH_5755MHz_MIMO_NTNV



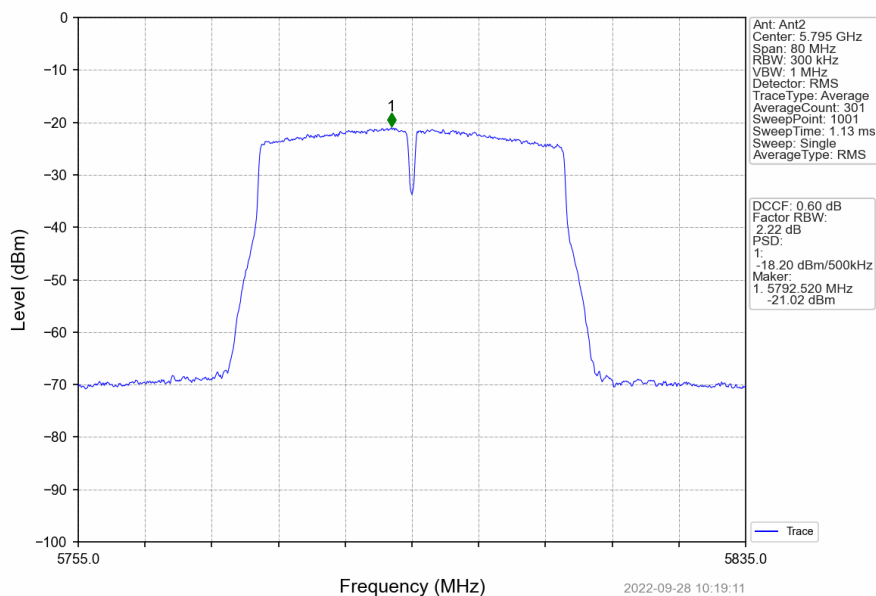
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



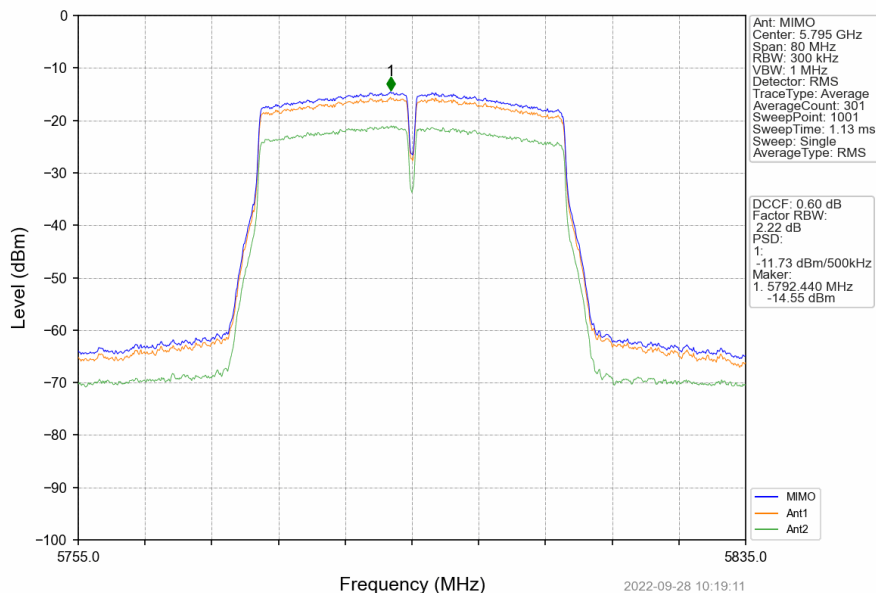
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802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



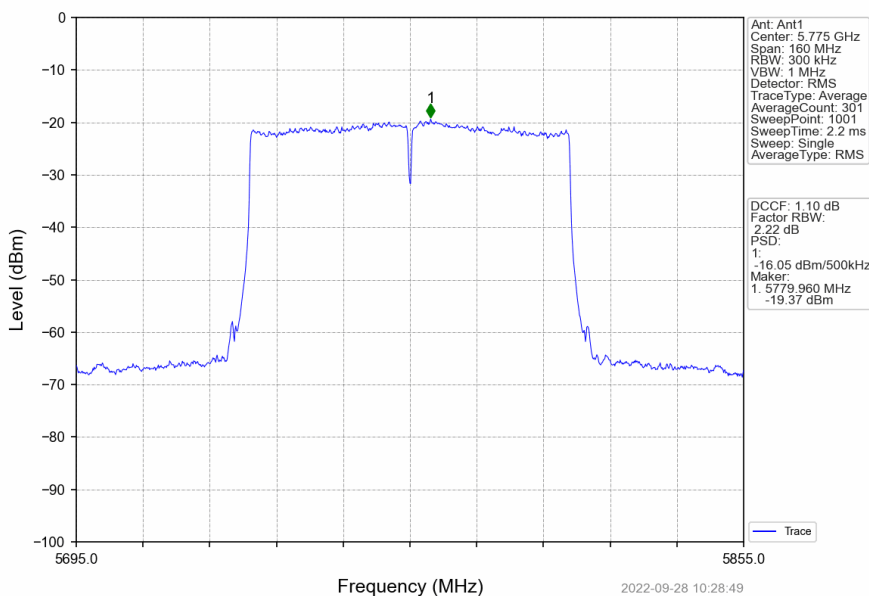
802.11ac(VHT40)_HCH_5795MHz_MIMO_NTNV



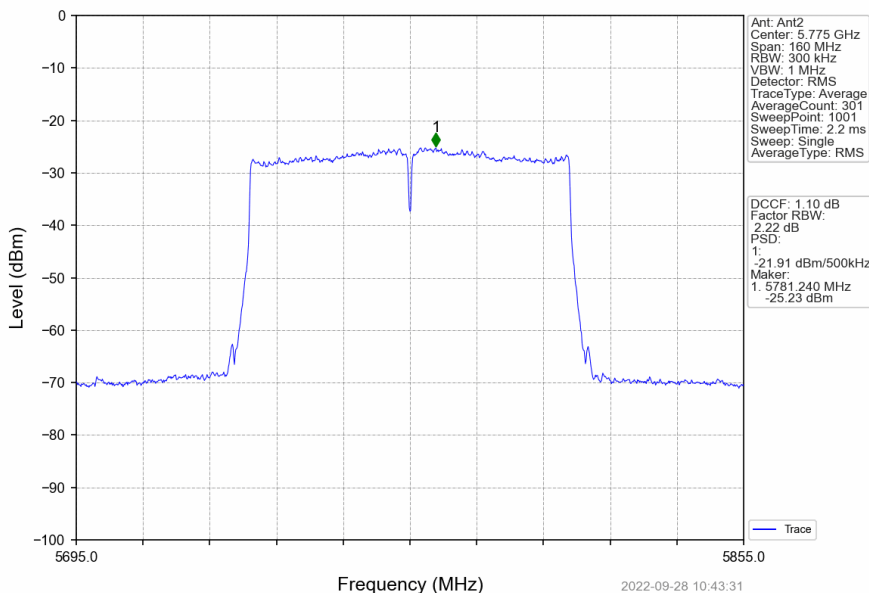
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV

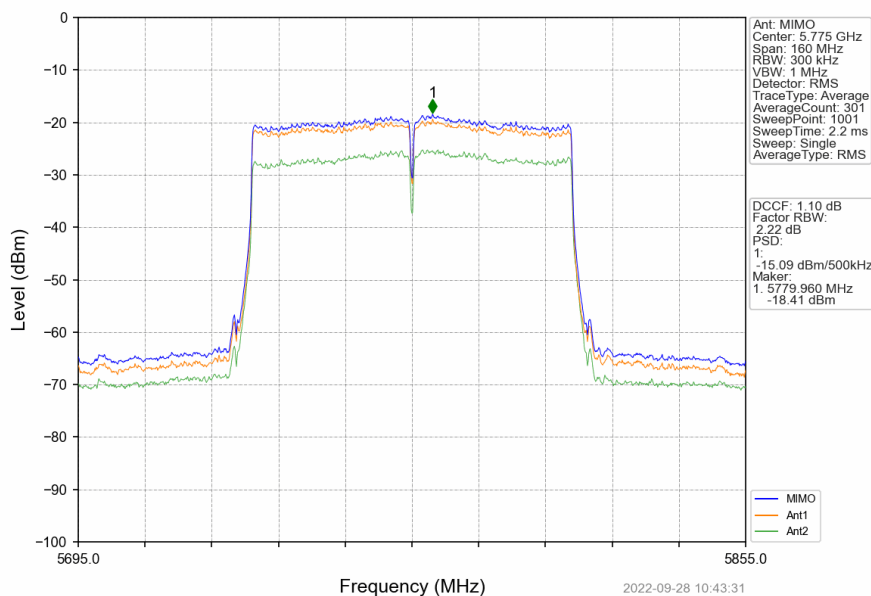


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Guangzhou branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

802.11ac(VHT80)_MCH_5775MHz_MIMO_NTNV



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Guangzhou Branch Testing Center EEC Laboratory

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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
Carrier Wave	SISO	5180	20	102	5179.970	5150 to 5250	Pass
				120	5179.970	5150 to 5250	Pass
				138	5179.970	5150 to 5250	Pass
			-30	120	5179.971	5150 to 5250	Pass
			-20	120	5179.971	5150 to 5250	Pass
			-10	120	5179.971	5150 to 5250	Pass
			0	120	5179.971	5150 to 5250	Pass
			10	120	5179.971	5150 to 5250	Pass
			30	120	5179.971	5150 to 5250	Pass
			40	120	5179.971	5150 to 5250	Pass
			50	120	5179.971	5150 to 5250	Pass
		5200	20	102	5199.970	5150 to 5250	Pass
				120	5199.971	5150 to 5250	Pass
				138	5199.971	5150 to 5250	Pass
			-30	120	5199.971	5150 to 5250	Pass
			-20	120	5199.971	5150 to 5250	Pass
			-10	120	5199.971	5150 to 5250	Pass
			0	120	5199.971	5150 to 5250	Pass
			10	120	5199.971	5150 to 5250	Pass
			30	120	5199.971	5150 to 5250	Pass
			40	120	5199.971	5150 to 5250	Pass
			50	120	5199.971	5150 to 5250	Pass
		5240	20	102	5239.970	5150 to 5250	Pass
				120	5239.970	5150 to 5250	Pass
				138	5239.970	5150 to 5250	Pass
			-30	120	5239.970	5150 to 5250	Pass
			-20	120	5239.970	5150 to 5250	Pass
			-10	120	5239.970	5150 to 5250	Pass
			0	120	5239.970	5150 to 5250	Pass
			10	120	5239.970	5150 to 5250	Pass
			30	120	5239.970	5150 to 5250	Pass



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			40	120	5239.970	5150 to 5250	Pass
			50	120	5239.970	5150 to 5250	Pass
		5260	20	102	5259.968	5250 to 5350	Pass
				120	5259.970	5250 to 5350	Pass
				138	5259.970	5250 to 5350	Pass
			-30	120	5259.970	5250 to 5350	Pass
			-20	120	5259.971	5250 to 5350	Pass
			-10	120	5259.971	5250 to 5350	Pass
			0	120	5259.971	5250 to 5350	Pass
			10	120	5259.971	5250 to 5350	Pass
			30	120	5259.971	5250 to 5350	Pass
			40	120	5259.971	5250 to 5350	Pass
			50	120	5259.971	5250 to 5350	Pass
		5300	20	102	5299.970	5250 to 5350	Pass
				120	5299.971	5250 to 5350	Pass
				138	5299.971	5250 to 5350	Pass
			-30	120	5299.971	5250 to 5350	Pass
			-20	120	5299.971	5250 to 5350	Pass
			-10	120	5299.971	5250 to 5350	Pass
			0	120	5299.971	5250 to 5350	Pass
			10	120	5299.971	5250 to 5350	Pass
			30	120	5299.971	5250 to 5350	Pass
			40	120	5299.971	5250 to 5350	Pass
			50	120	5299.971	5250 to 5350	Pass
		5320	20	102	5319.970	5250 to 5350	Pass
				120	5319.971	5250 to 5350	Pass
				138	5319.971	5250 to 5350	Pass
			-30	120	5319.971	5250 to 5350	Pass
			-20	120	5319.971	5250 to 5350	Pass
			-10	120	5319.971	5250 to 5350	Pass
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			10	120	5319.971	5250 to 5350	Pass
			30	120	5319.971	5250 to 5350	Pass
			40	120	5319.971	5250 to 5350	Pass
			50	120	5319.971	5250 to 5350	Pass
		5500	20	102	5499.969	5470 to 5725	Pass
				120	5499.970	5470 to 5725	Pass
				138	5499.970	5470 to 5725	Pass
			-30	120	5499.971	5470 to 5725	Pass
			-20	120	5499.971	5470 to 5725	Pass
			-10	120	5499.971	5470 to 5725	Pass



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			0	120	5499.971	5470 to 5725	Pass
			10	120	5499.971	5470 to 5725	Pass
			30	120	5499.971	5470 to 5725	Pass
			40	120	5499.971	5470 to 5725	Pass
			50	120	5499.971	5470 to 5725	Pass
		5580	20	102	5579.969	5470 to 5725	Pass
				120	5579.970	5470 to 5725	Pass
				138	5579.970	5470 to 5725	Pass
			-30	120	5579.970	5470 to 5725	Pass
			-20	120	5579.970	5470 to 5725	Pass
			-10	120	5579.970	5470 to 5725	Pass
			0	120	5579.971	5470 to 5725	Pass
			10	120	5579.970	5470 to 5725	Pass
			30	120	5579.971	5470 to 5725	Pass
			40	120	5579.971	5470 to 5725	Pass
			50	120	5579.971	5470 to 5725	Pass
		5700	20	102	5699.967	5470 to 5725	Pass
				120	5699.969	5470 to 5725	Pass
				138	5699.969	5470 to 5725	Pass
			-30	120	5699.969	5470 to 5725	Pass
			-20	120	5699.970	5470 to 5725	Pass
			-10	120	5699.970	5470 to 5725	Pass
			0	120	5699.970	5470 to 5725	Pass
			10	120	5699.970	5470 to 5725	Pass
			30	120	5699.970	5470 to 5725	Pass
			40	120	5699.970	5470 to 5725	Pass
			50	120	5699.970	5470 to 5725	Pass
		5745	20	102	5744.967	5725 to 5850	Pass
				120	5744.969	5725 to 5850	Pass
				138	5744.969	5725 to 5850	Pass
			-30	120	5744.969	5725 to 5850	Pass
			-20	120	5744.969	5725 to 5850	Pass
			-10	120	5744.969	5725 to 5850	Pass
			0	120	5744.969	5725 to 5850	Pass
			10	120	5744.969	5725 to 5850	Pass
			30	120	5744.969	5725 to 5850	Pass
			40	120	5744.969	5725 to 5850	Pass
			50	120	5744.969	5725 to 5850	Pass
		5785	20	102	5784.966	5725 to 5850	Pass
				120	5784.968	5725 to 5850	Pass
				138	5784.969	5725 to 5850	Pass



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		5825	20	102	5824.968	5725 to 5850	Pass
				120	5824.969	5725 to 5850	Pass
				138	5824.969	5725 to 5850	Pass
			-30	120	5824.969	5725 to 5850	Pass
			-20	120	5824.969	5725 to 5850	Pass
			-10	120	5824.969	5725 to 5850	Pass
			0	120	5824.969	5725 to 5850	Pass
			10	120	5824.969	5725 to 5850	Pass
			30	120	5824.969	5725 to 5850	Pass
			40	120	5824.969	5725 to 5850	Pass
			50	120	5824.969	5725 to 5850	Pass
		MIMO	20	102	5189.972	5150 to 5250	Pass
				120	5189.972	5150 to 5250	Pass
				138	5189.972	5150 to 5250	Pass
			-30	120	5189.972	5150 to 5250	Pass
			-20	120	5189.972	5150 to 5250	Pass
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			50	120	5189.972	5150 to 5250	Pass
			20	102	5229.970	5150 to 5250	Pass
				120	5229.971	5150 to 5250	Pass
				138	5229.971	5150 to 5250	Pass
			-30	120	5229.971	5150 to 5250	Pass
			-20	120	5229.971	5150 to 5250	Pass
			-10	120	5229.971	5150 to 5250	Pass
			0	120	5229.971	5150 to 5250	Pass
			10	120	5229.971	5150 to 5250	Pass
			30	120	5229.971	5150 to 5250	Pass
			40	120	5229.971	5150 to 5250	Pass
			50	120	5229.971	5150 to 5250	Pass



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		5270	20	102	5269.970	5250 to 5350	Pass
				120	5269.971	5250 to 5350	Pass
				138	5269.971	5250 to 5350	Pass
			-30	120	5269.971	5250 to 5350	Pass
			-20	120	5269.971	5250 to 5350	Pass
			-10	120	5269.971	5250 to 5350	Pass
			0	120	5269.972	5250 to 5350	Pass
			10	120	5269.972	5250 to 5350	Pass
			30	120	5269.972	5250 to 5350	Pass
			40	120	5269.972	5250 to 5350	Pass
			50	120	5269.972	5250 to 5350	Pass
		5310	20	102	5309.967	5250 to 5350	Pass
				120	5309.965	5250 to 5350	Pass
				138	5309.964	5250 to 5350	Pass
			-30	120	5309.963	5250 to 5350	Pass
			-20	120	5309.963	5250 to 5350	Pass
			-10	120	5309.962	5250 to 5350	Pass
			0	120	5309.962	5250 to 5350	Pass
			10	120	5309.962	5250 to 5350	Pass
			30	120	5309.962	5250 to 5350	Pass
			40	120	5309.961	5250 to 5350	Pass
			50	120	5309.961	5250 to 5350	Pass
		5510	20	102	5509.962	5470 to 5725	Pass
				120	5509.962	5470 to 5725	Pass
				138	5509.962	5470 to 5725	Pass
			-30	120	5509.962	5470 to 5725	Pass
			-20	120	5509.962	5470 to 5725	Pass
			-10	120	5509.962	5470 to 5725	Pass
			0	120	5509.963	5470 to 5725	Pass
			10	120	5509.963	5470 to 5725	Pass
			30	120	5509.963	5470 to 5725	Pass
			40	120	5509.963	5470 to 5725	Pass
			50	120	5509.963	5470 to 5725	Pass
		5550	20	102	5549.965	5470 to 5725	Pass
				120	5549.965	5470 to 5725	Pass
				138	5549.965	5470 to 5725	Pass
			-30	120	5549.965	5470 to 5725	Pass
			-20	120	5549.966	5470 to 5725	Pass
			-10	120	5549.966	5470 to 5725	Pass
			0	120	5549.966	5470 to 5725	Pass
			10	120	5549.966	5470 to 5725	Pass



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