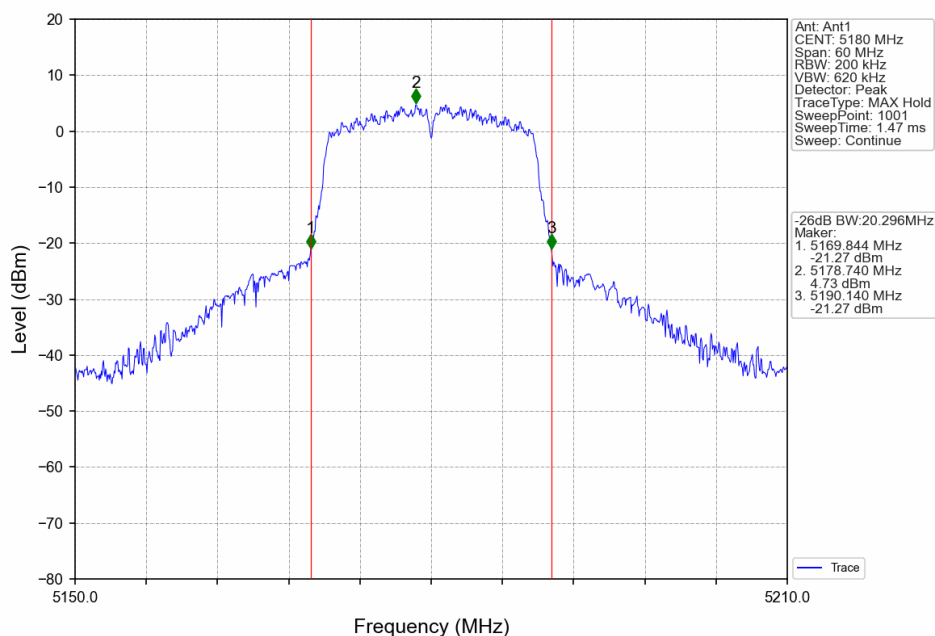
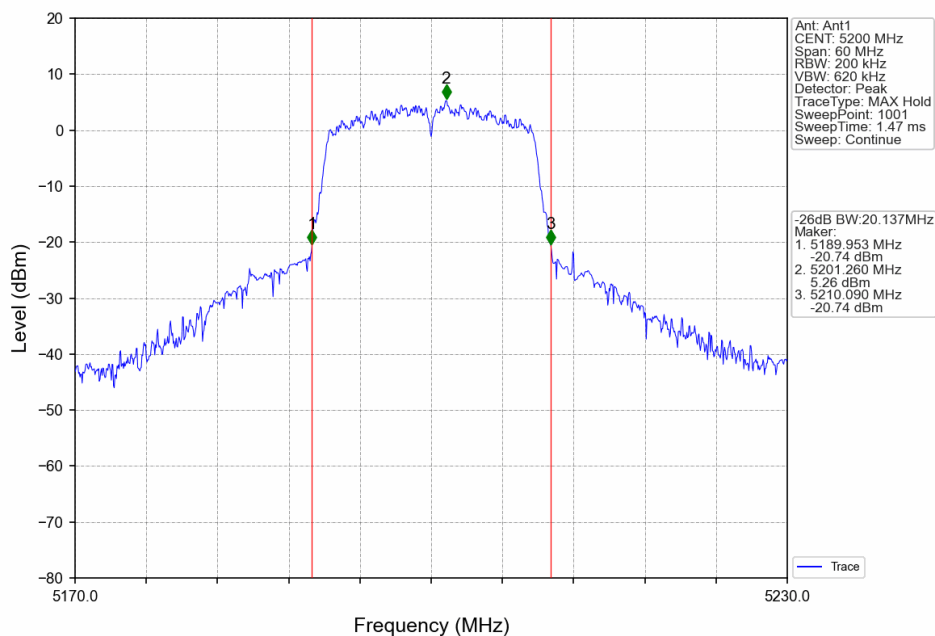


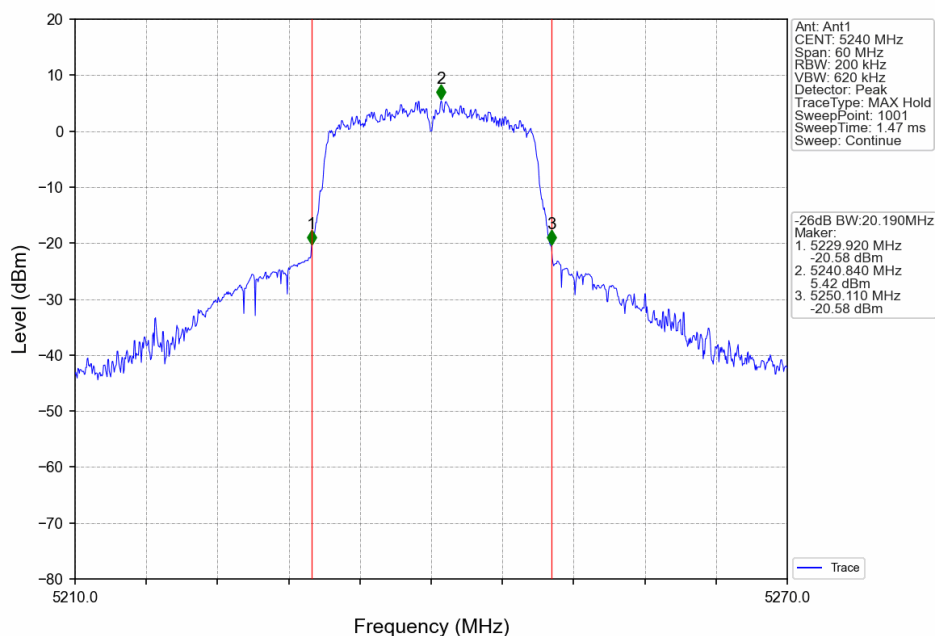
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



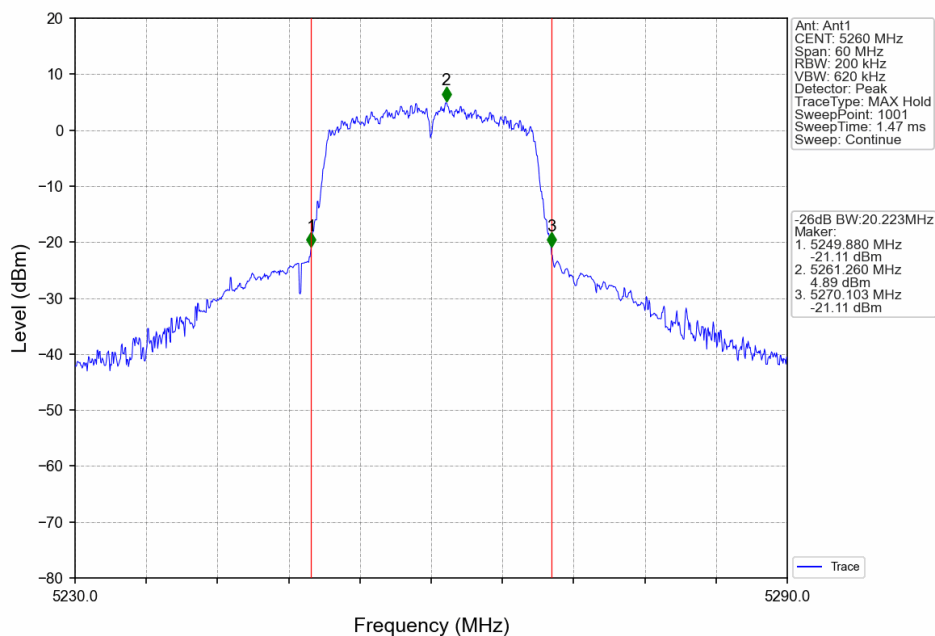
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



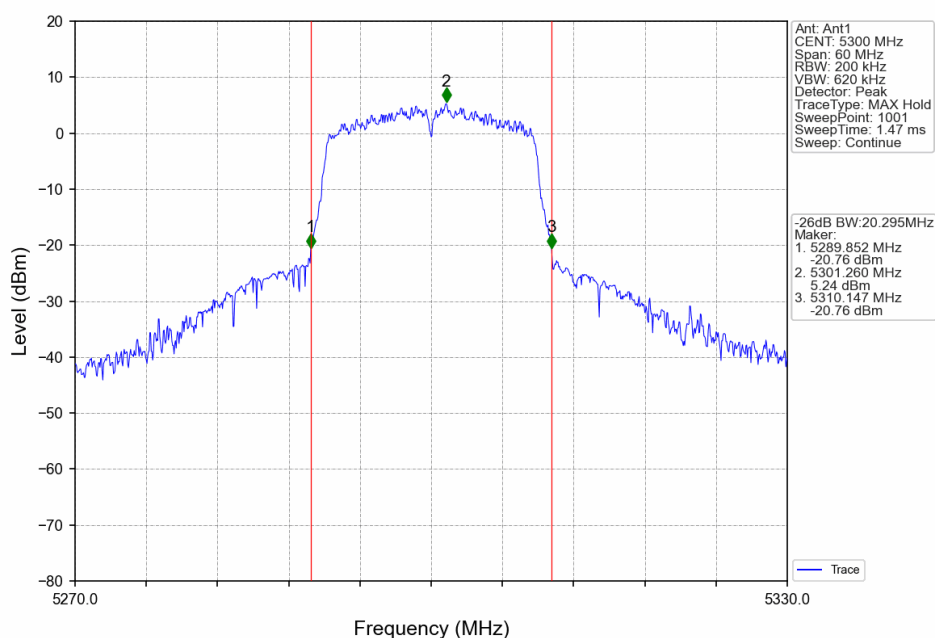
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



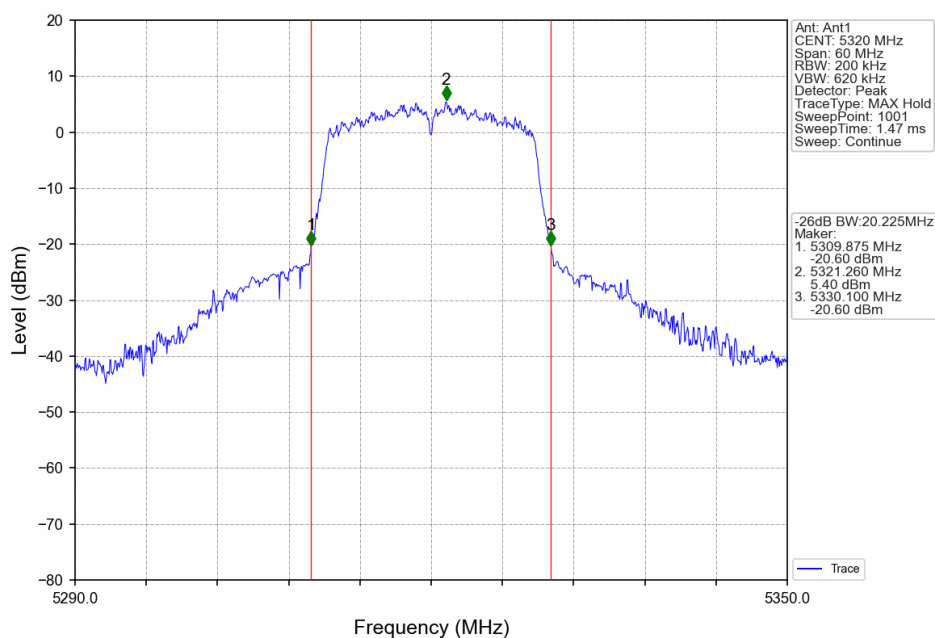
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



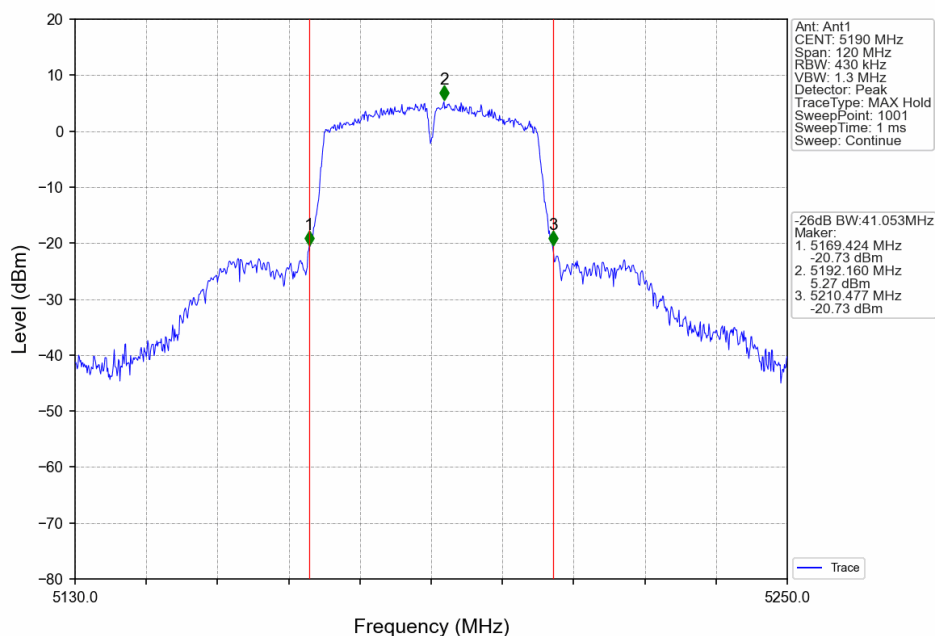
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



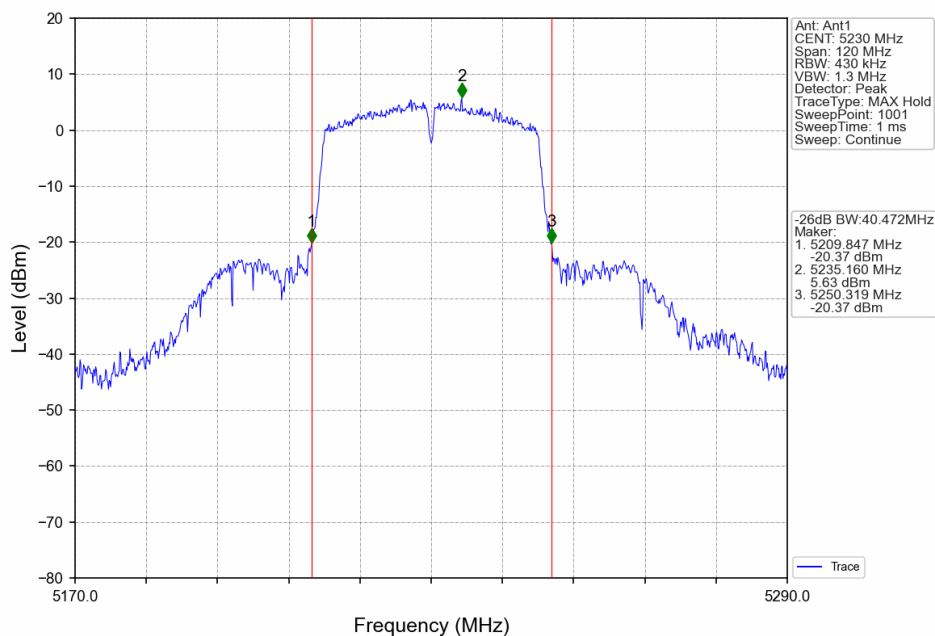
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



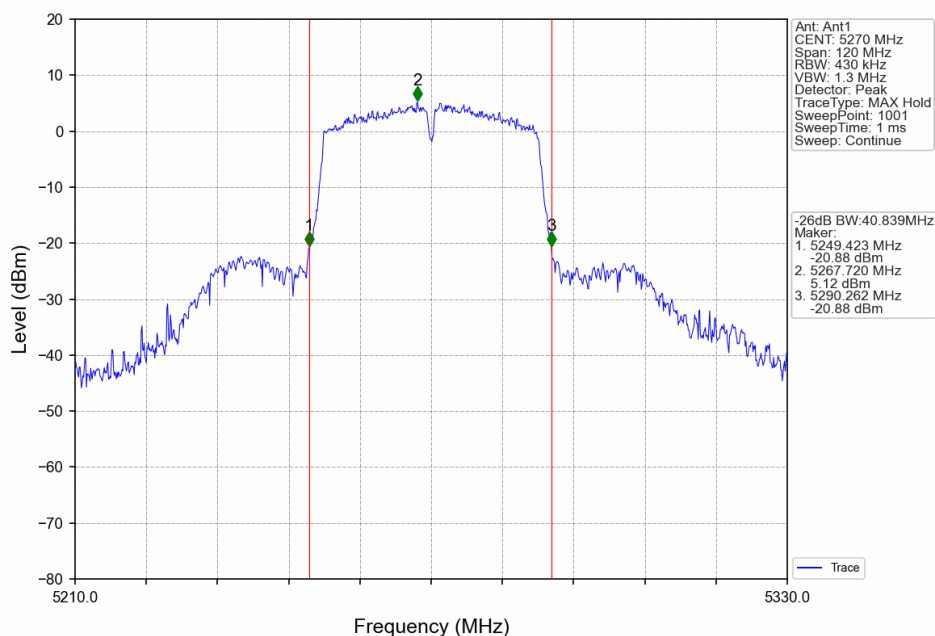
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



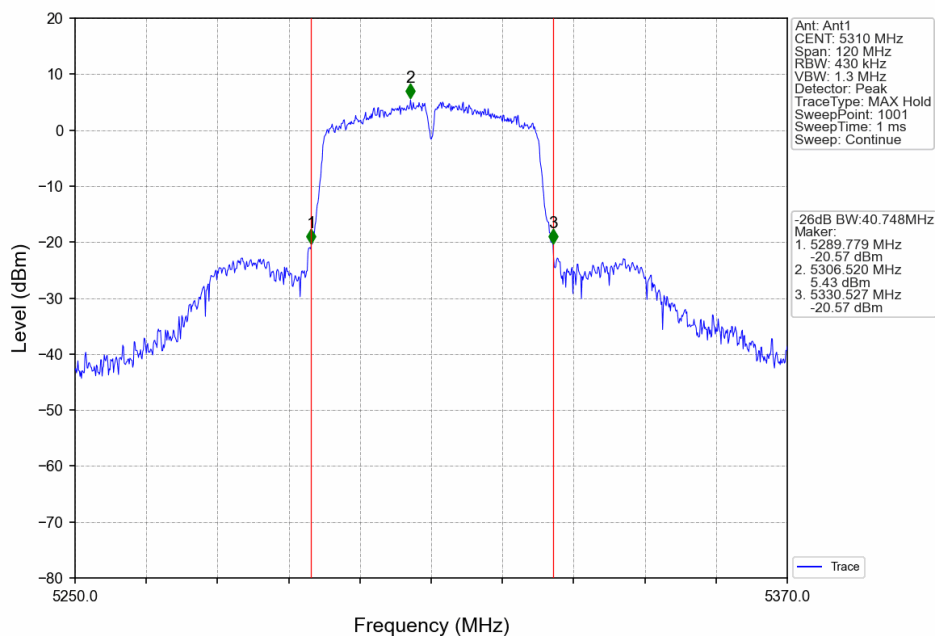
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



3. Maximum Conducted Output Power

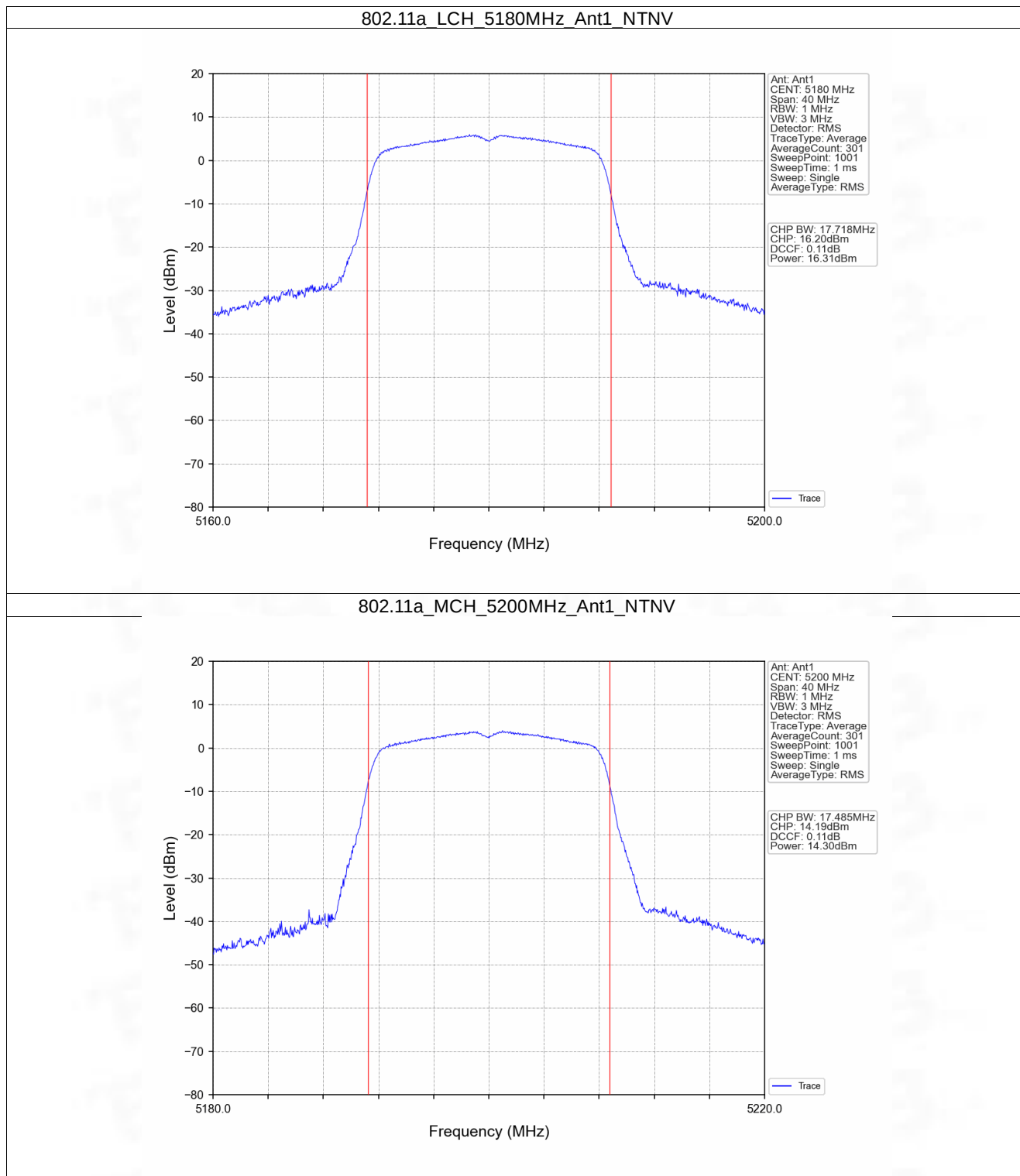
3.1 Power

3.1.1 Test Result

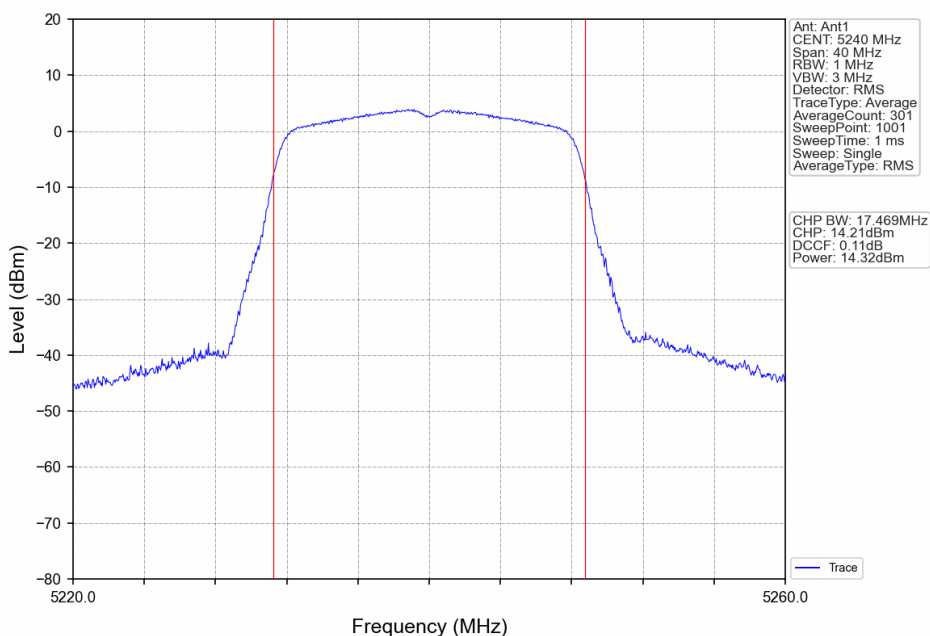
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	16.31	≤ 23.98	Pass
		5200	14.30	≤ 23.98	Pass
		5240	14.32	≤ 23.98	Pass
		5260	14.15	≤ 23.98	Pass
		5300	14.34	≤ 23.98	Pass
		5320	14.46	≤ 23.97	Pass
		5745	14.90	≤ 30	Pass
		5785	14.84	≤ 30	Pass
		5825	14.79	≤ 30	Pass
802.11n (HT20)	SISO	5180	13.97	≤ 23.98	Pass
		5200	14.17	≤ 23.98	Pass
		5240	14.23	≤ 23.98	Pass
		5260	14.00	≤ 23.98	Pass
		5300	14.21	≤ 23.98	Pass
		5320	14.35	≤ 23.98	Pass
		5745	14.69	≤ 30	Pass
		5785	14.57	≤ 30	Pass
		5825	14.66	≤ 30	Pass
802.11n (HT40)	SISO	5190	14.30	≤ 23.98	Pass
		5230	14.40	≤ 23.98	Pass
		5270	14.21	≤ 23.98	Pass
		5310	14.38	≤ 23.98	Pass
		5755	14.83	≤ 30	Pass
		5795	14.76	≤ 30	Pass

Note1: Antenna Gain: Ant1: 1.11dBi;

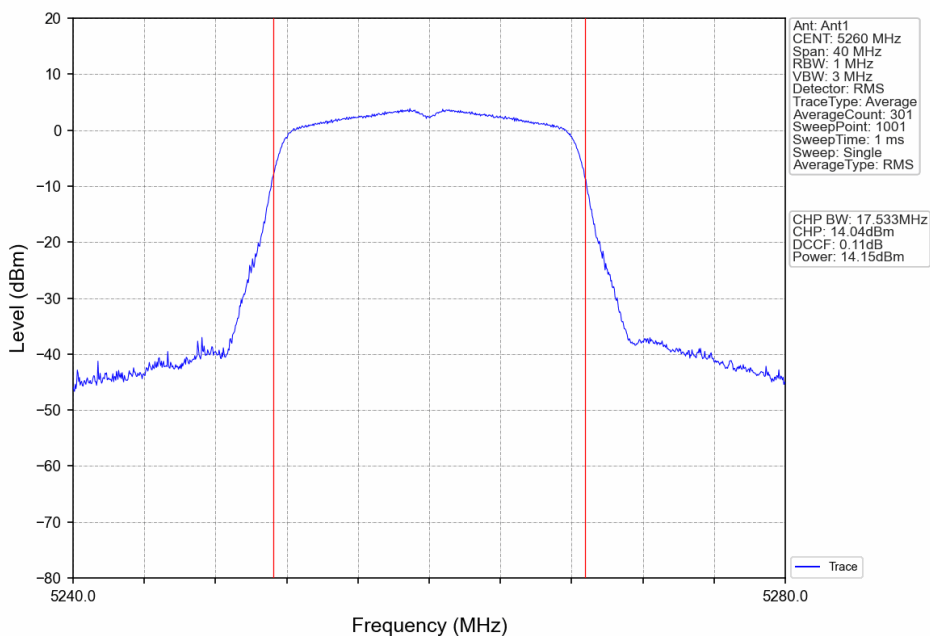
3.1.2 Test Graph



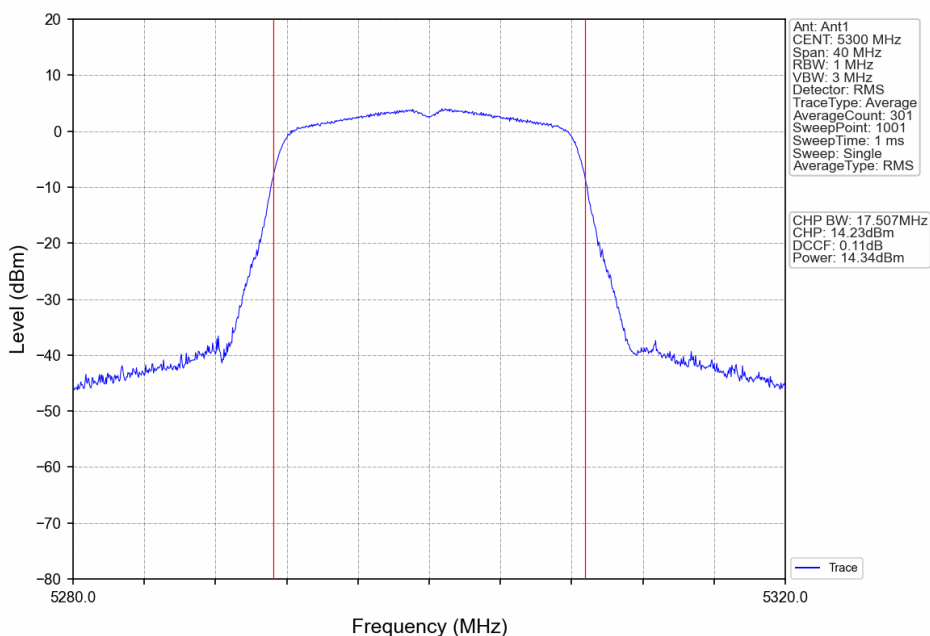
802.11a_HCH_5240MHz_Ant1_NTNV



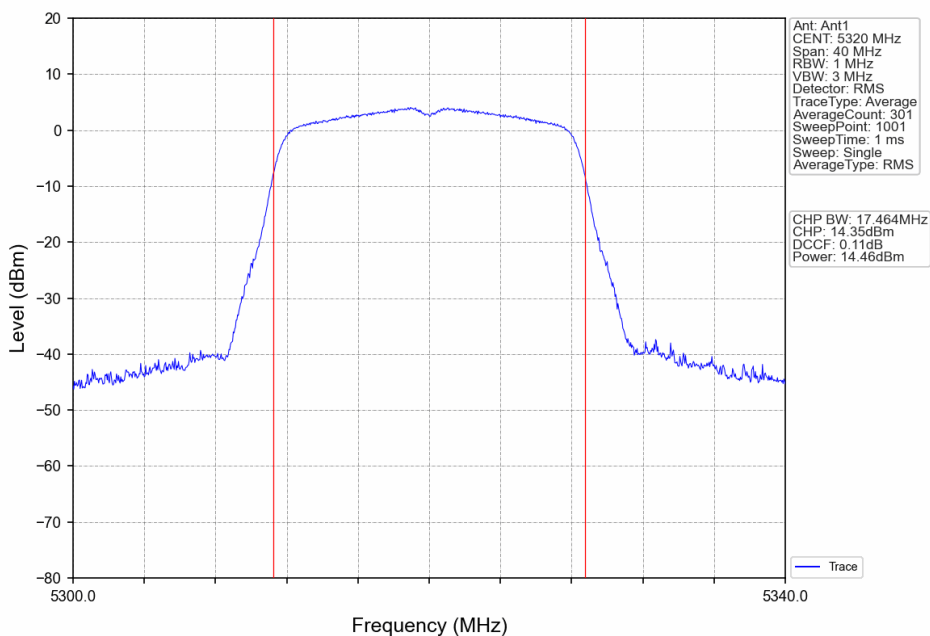
802.11a_LCH_5260MHz_Ant1_NTNV



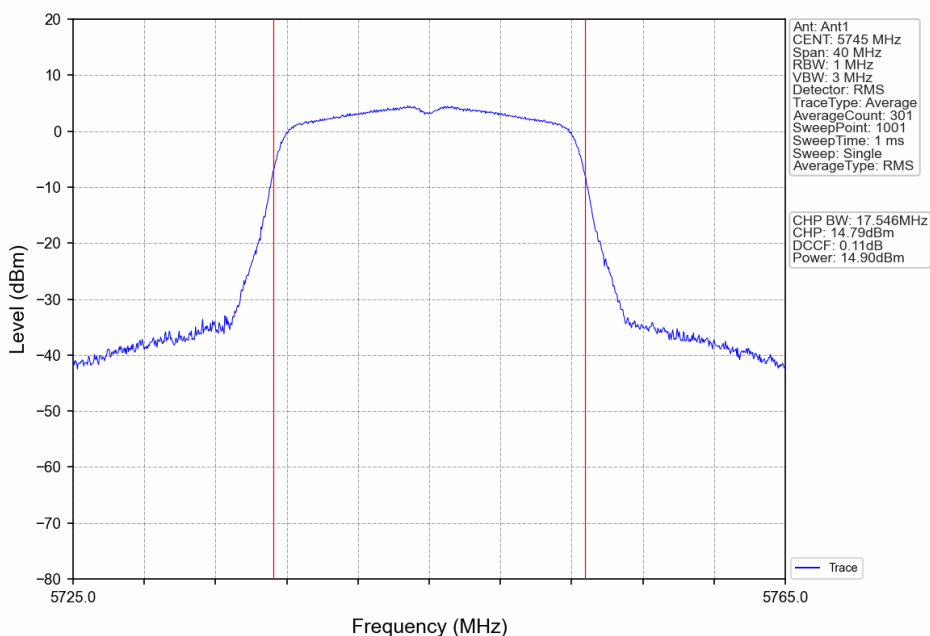
802.11a_MCH_5300MHz_Ant1_NTNV



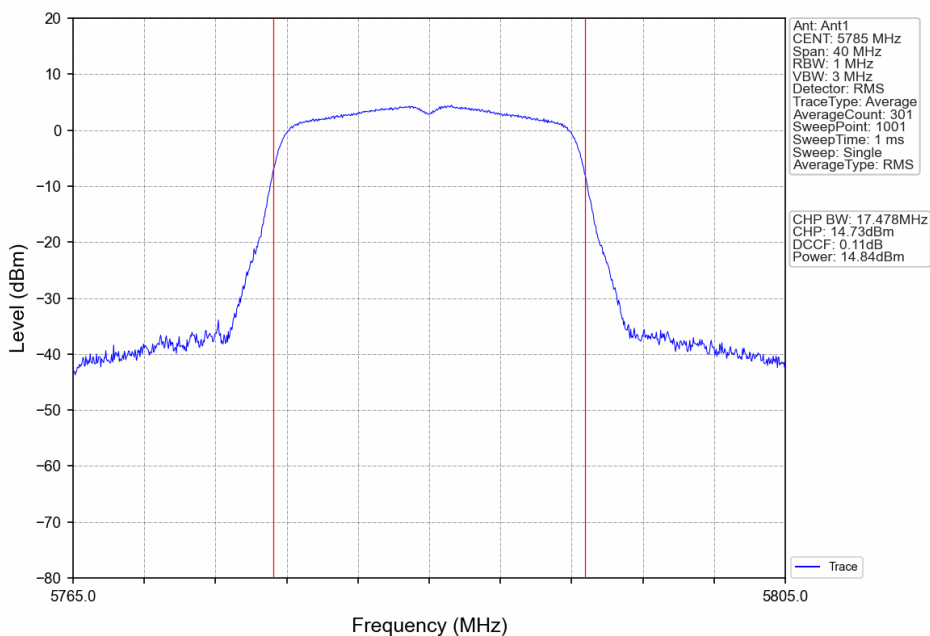
802.11a_HCH_5320MHz_Ant1_NTNV



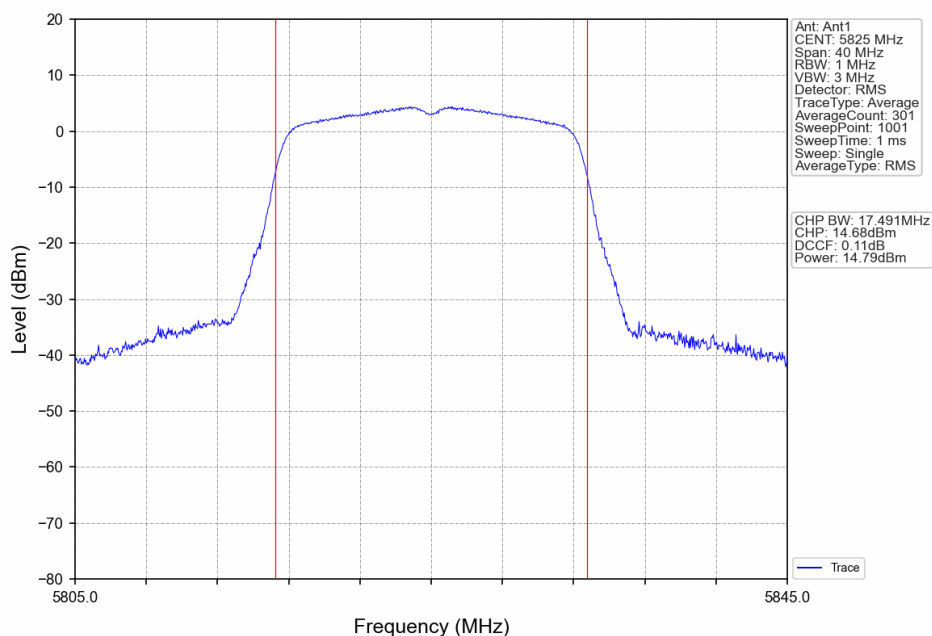
802.11a_LCH_5745MHz_Ant1_NTNV



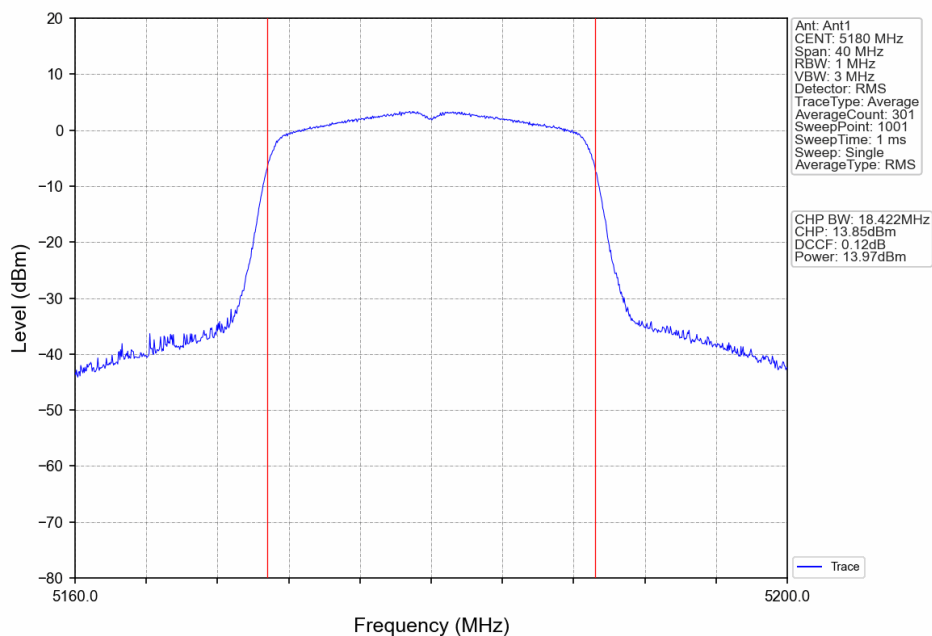
802.11a_MCH_5785MHz_Ant1_NTNV



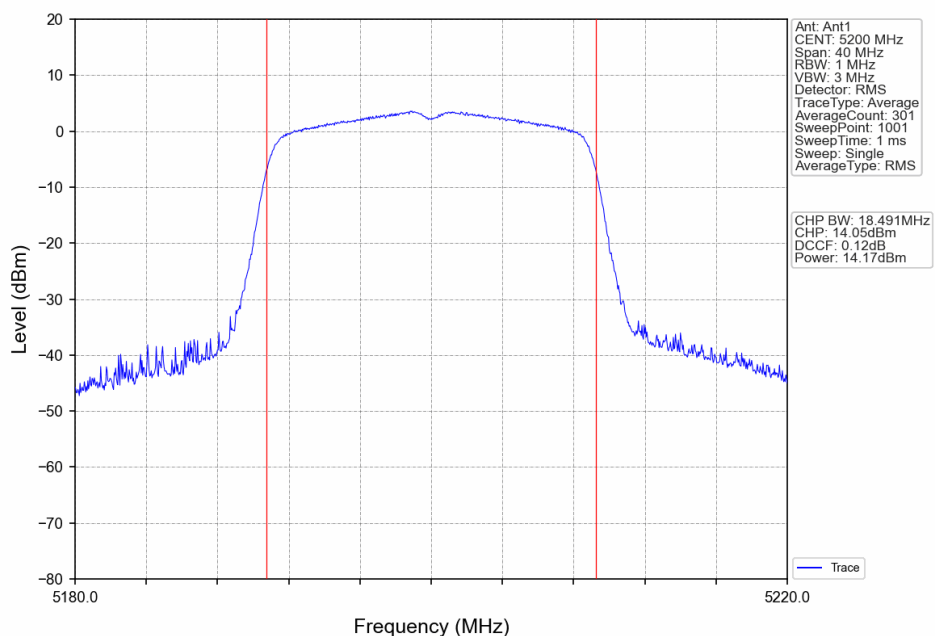
802.11a_HCH_5825MHz_Ant1_NTNV



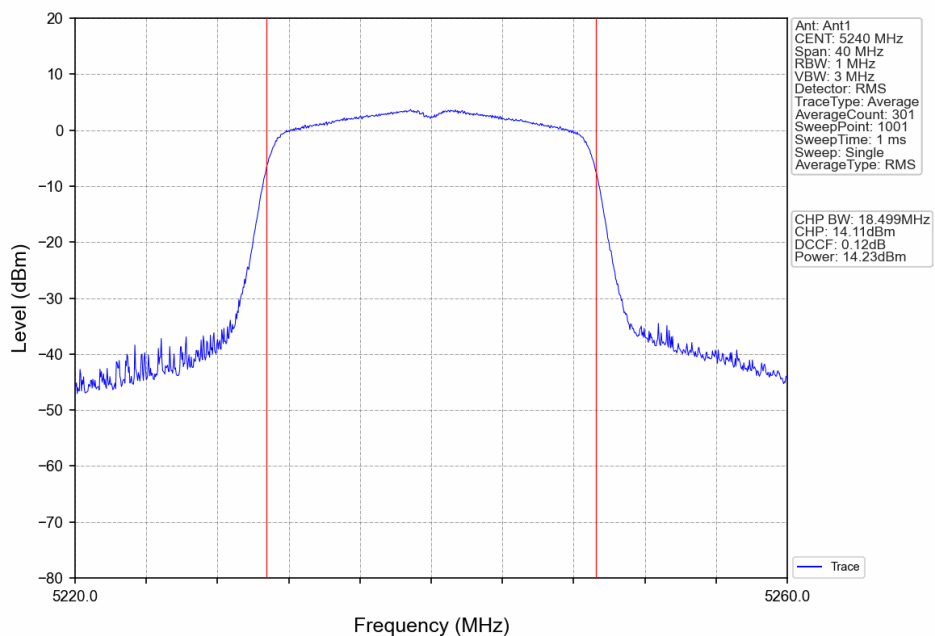
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



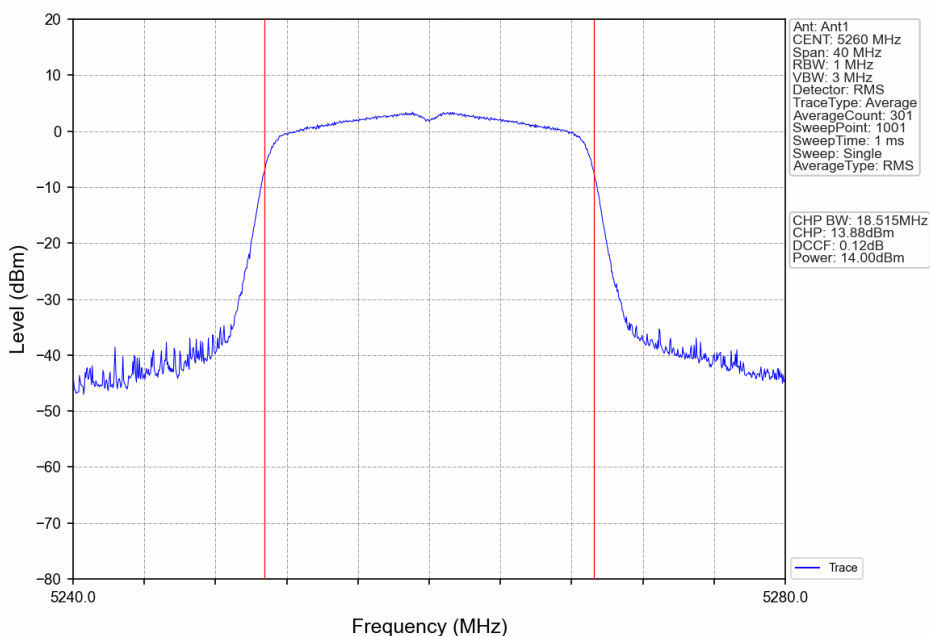
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



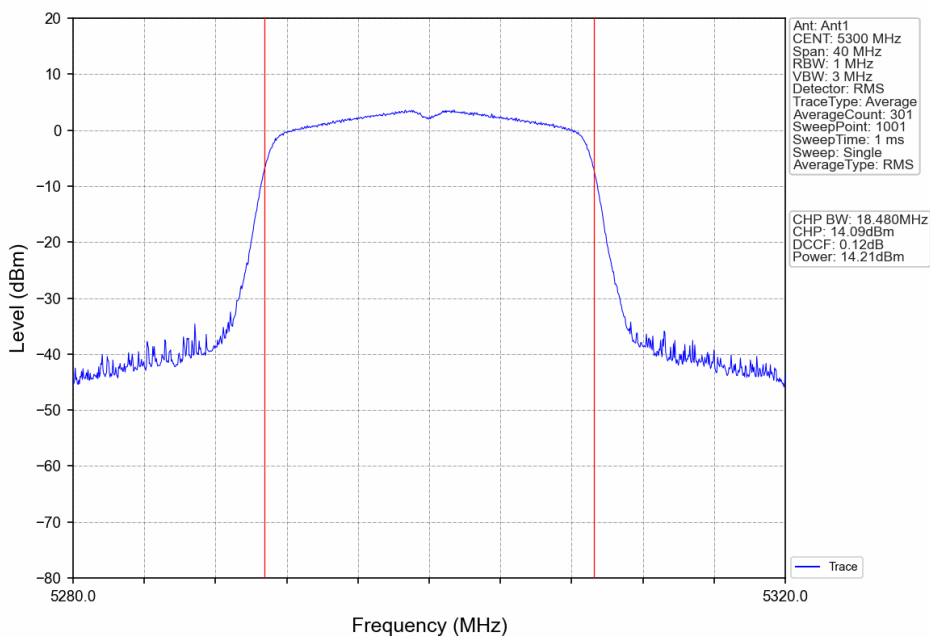
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



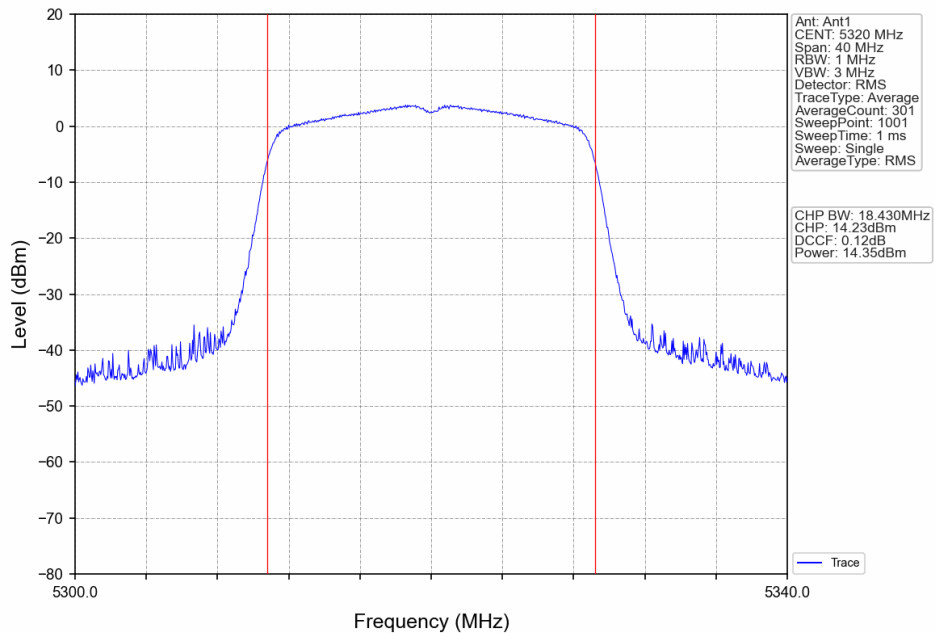
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



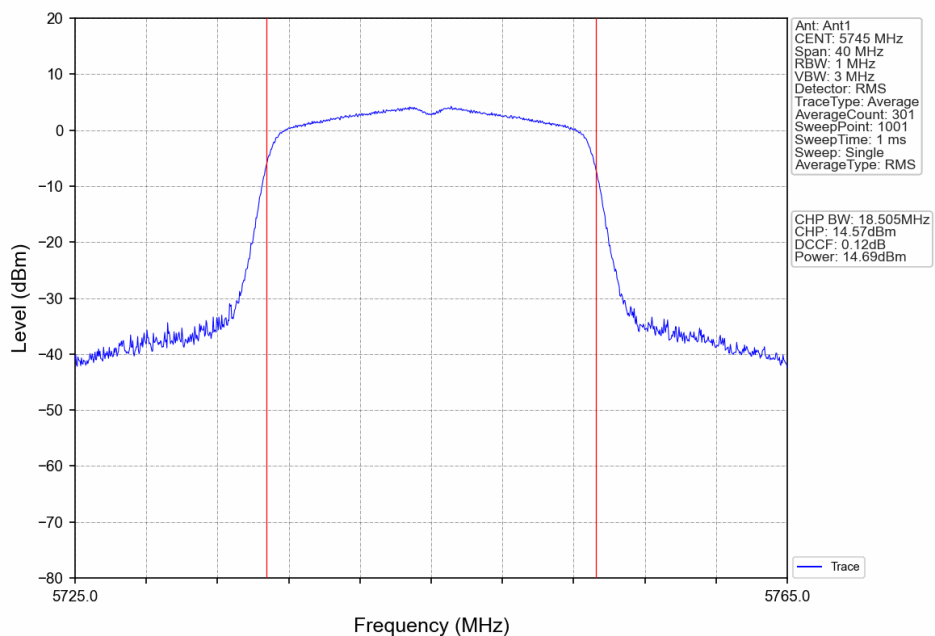
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



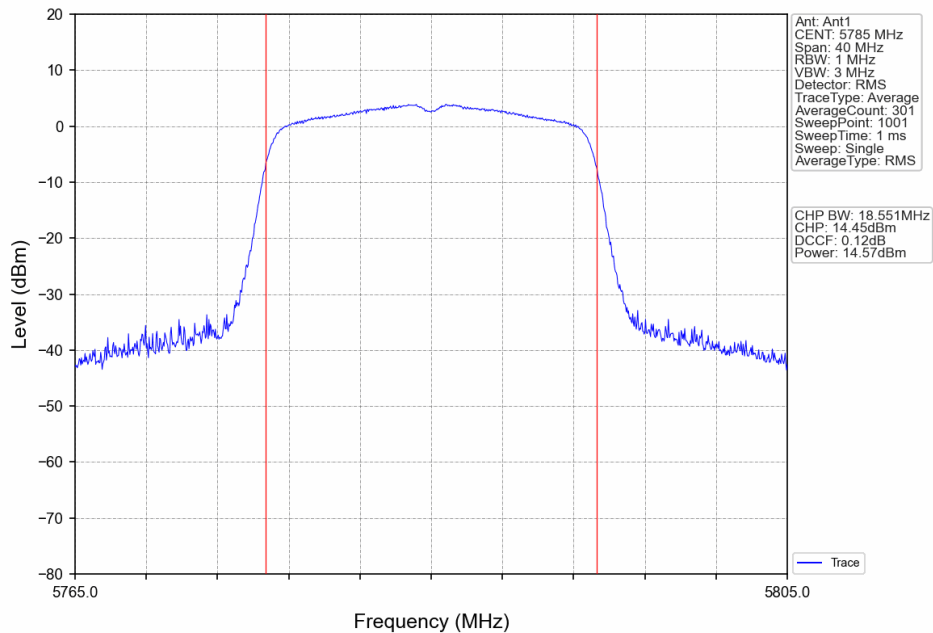
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



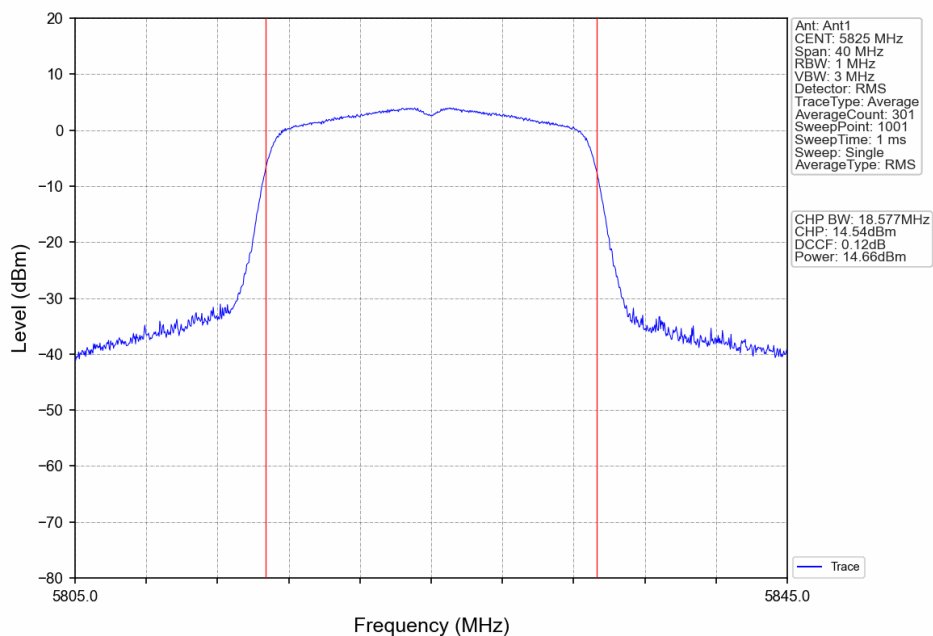
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



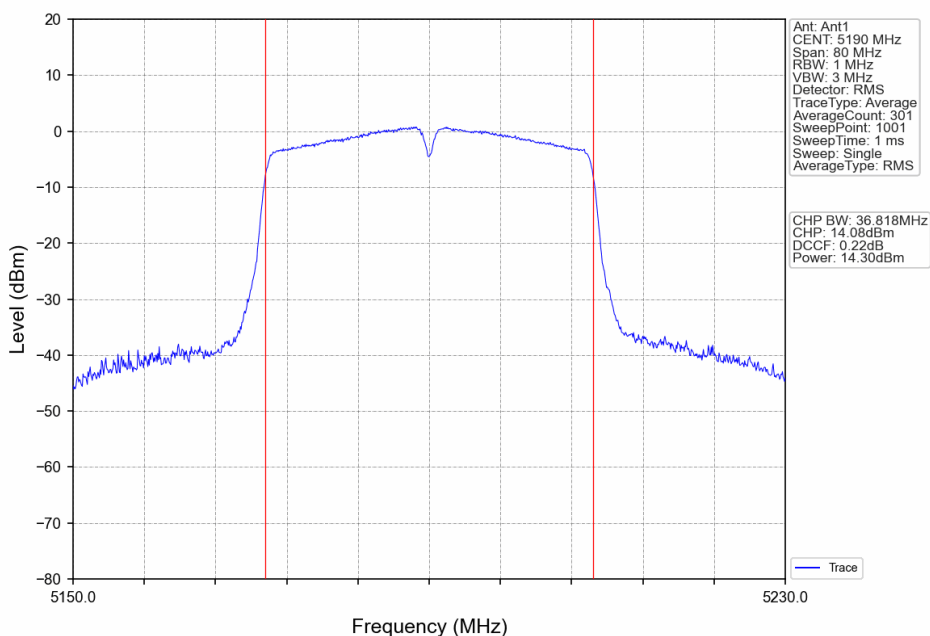
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



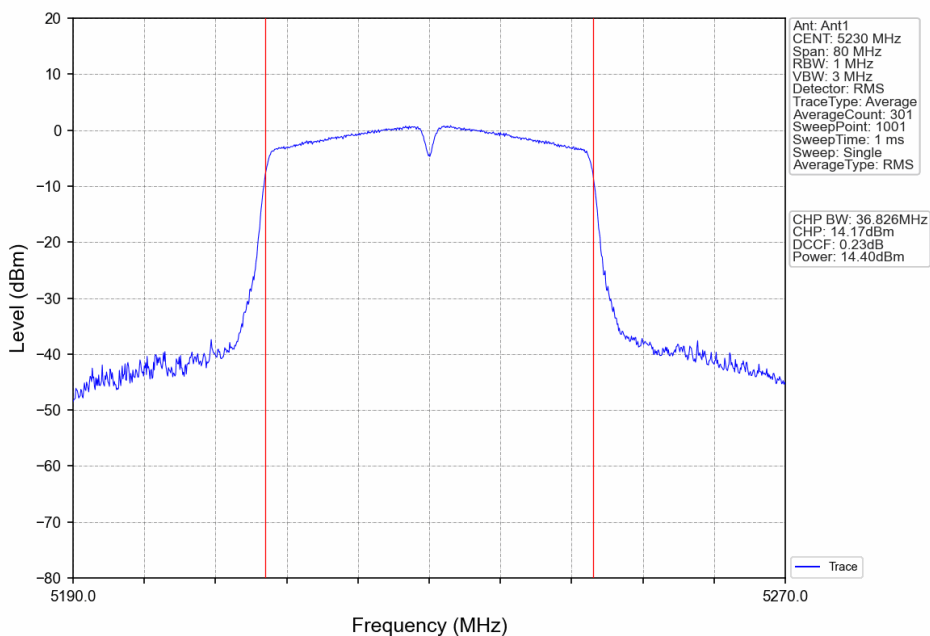
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



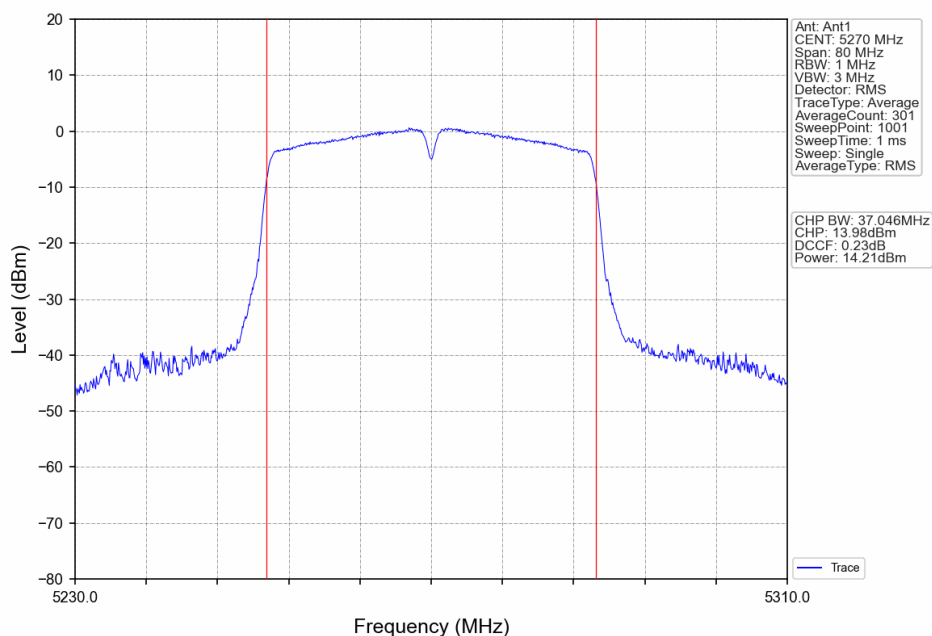
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



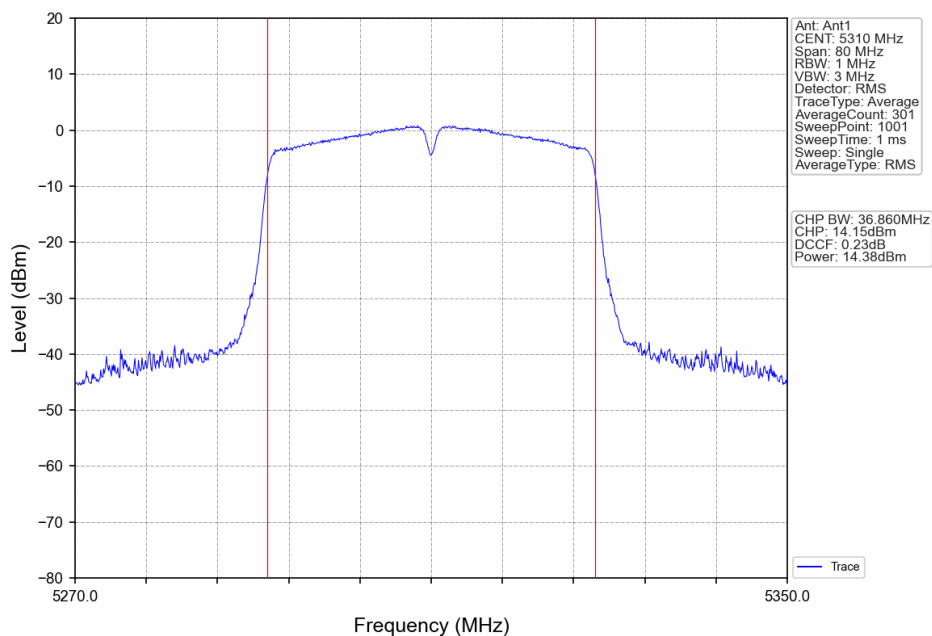
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



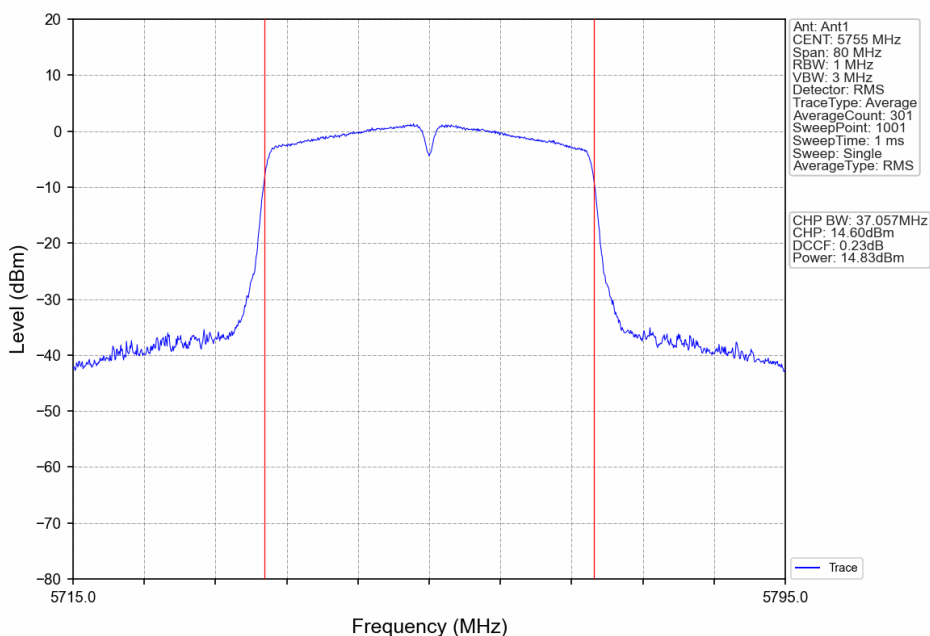
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



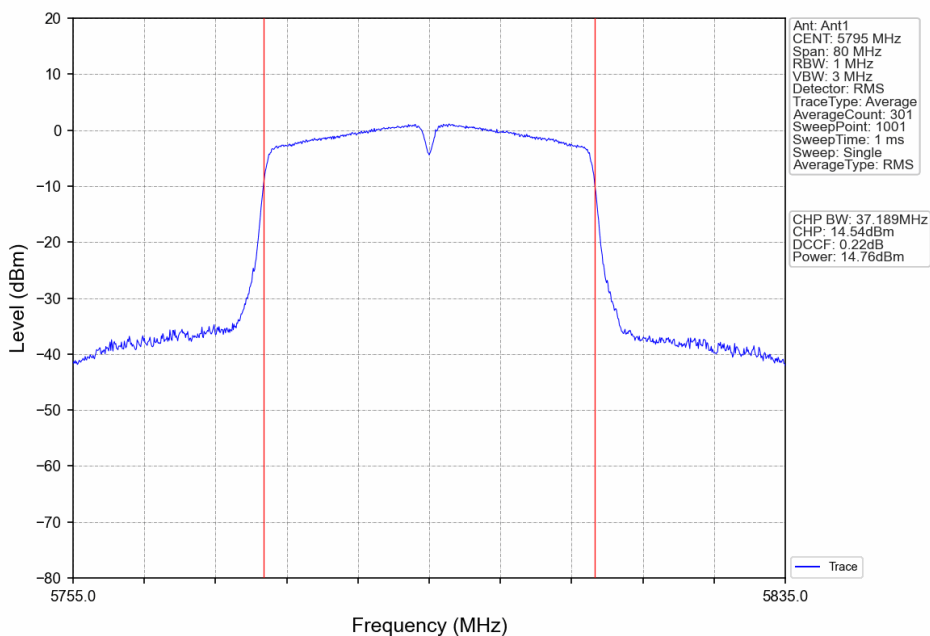
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



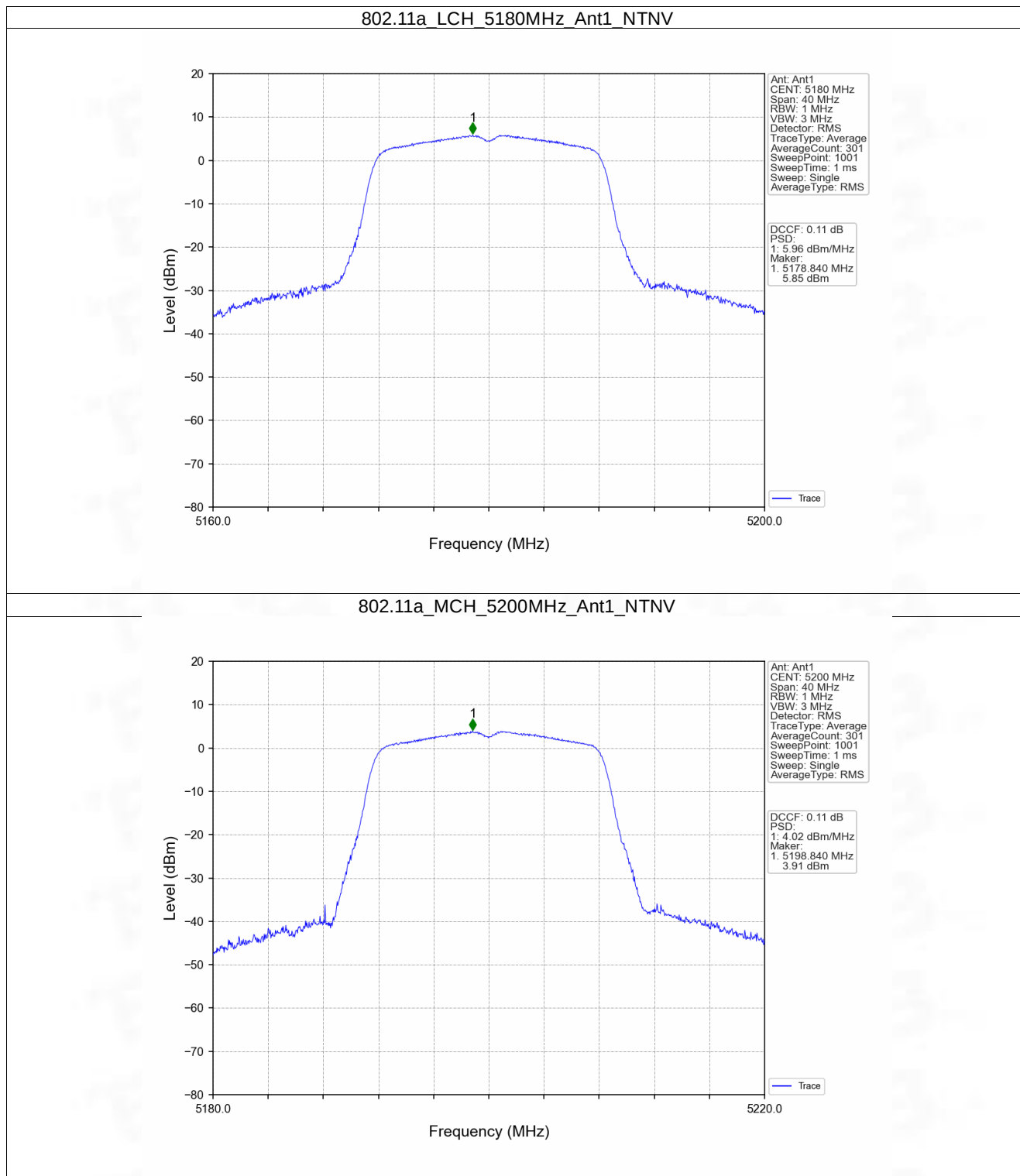
4. Maximum Power Spectral Density

4.1 PSD

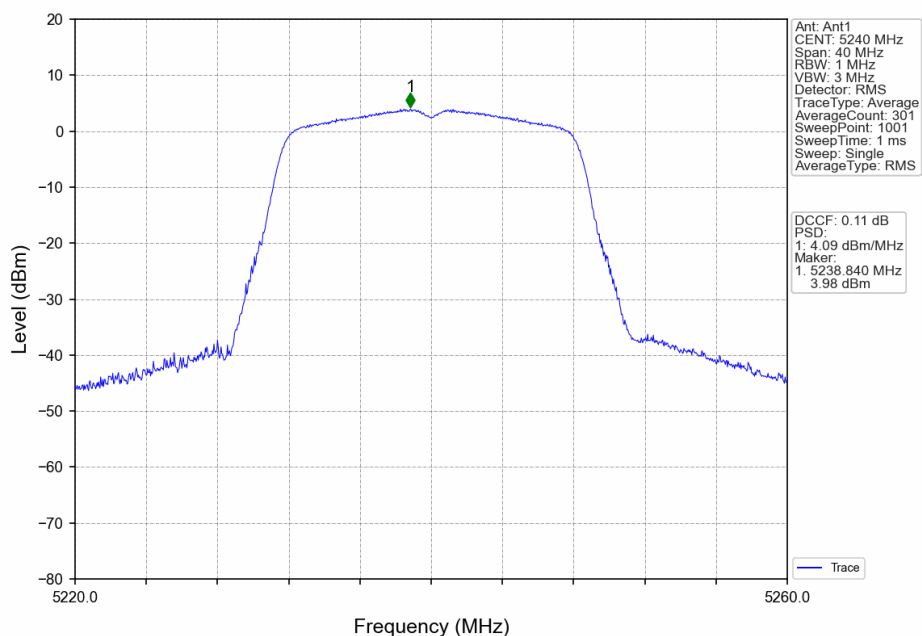
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	5.96	<=11	Pass
		5200	4.02	<=11	Pass
		5240	4.09	<=11	Pass
		5260	3.92	<=11	Pass
		5300	4.07	<=11	Pass
		5320	4.22	<=11	Pass
802.11n (HT20)	SISO	5180	3.54	<=11	Pass
		5200	3.67	<=11	Pass
		5240	3.73	<=11	Pass
		5260	3.58	<=11	Pass
		5300	3.93	<=11	Pass
		5320	3.85	<=11	Pass
802.11n (HT40)	SISO	5190	0.94	<=11	Pass
		5230	1.01	<=11	Pass
		5270	0.70	<=11	Pass
		5310	1.16	<=11	Pass
Note1: Antenna Gain: Ant1: 1.11dBi:					

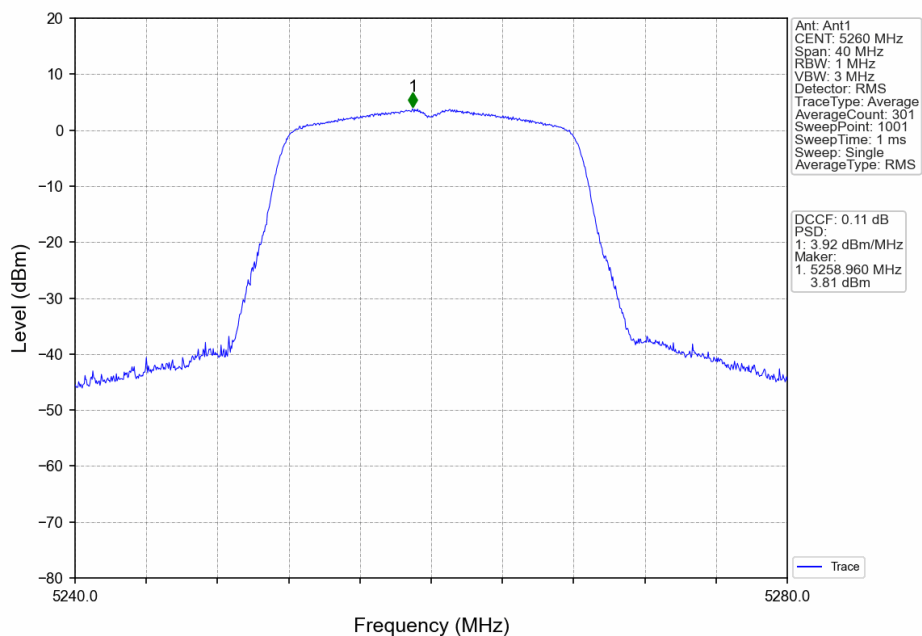
4.1.2 Test Graph



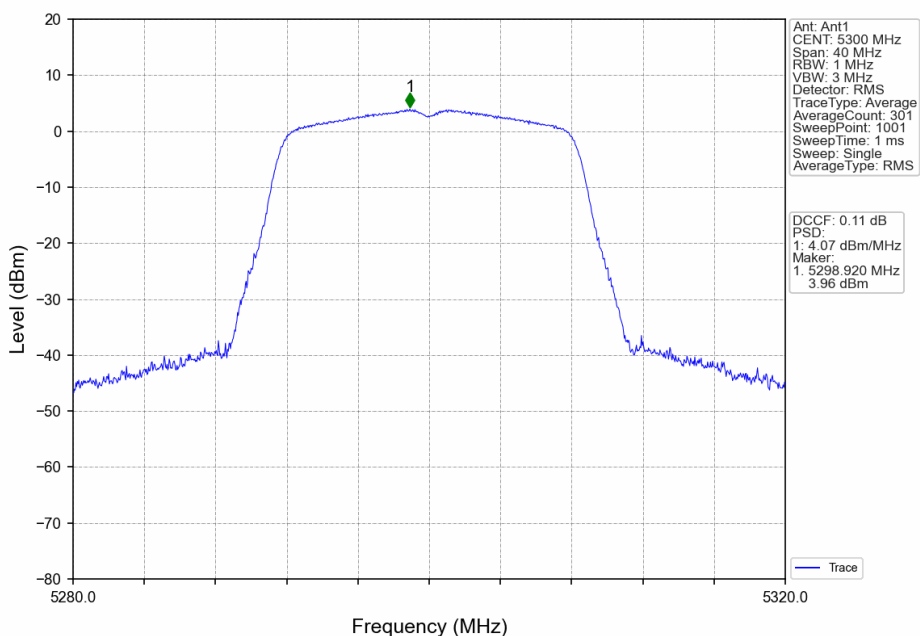
802.11a_HCH_5240MHz_Ant1_NTNV



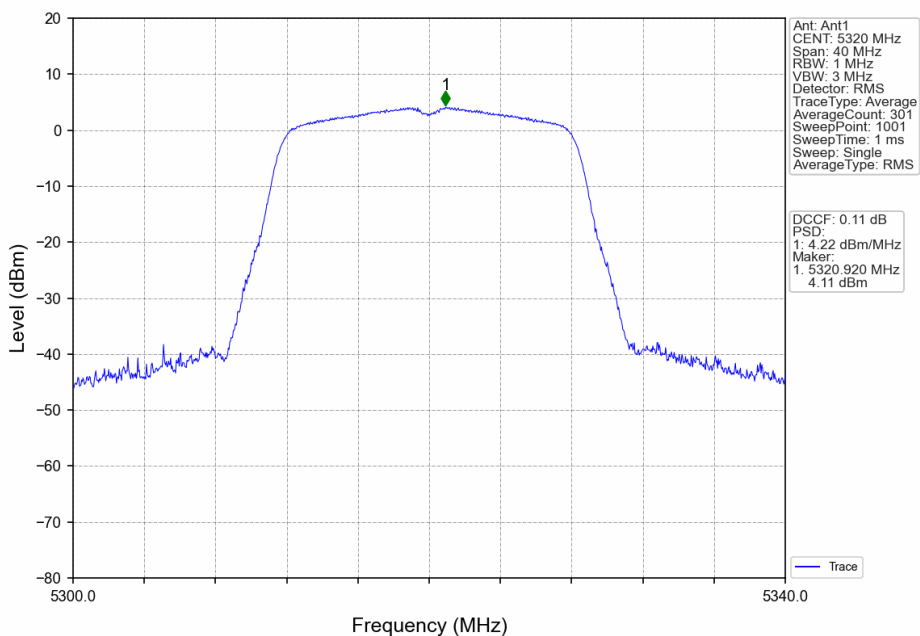
802.11a_LCH_5260MHz_Ant1_NTNV



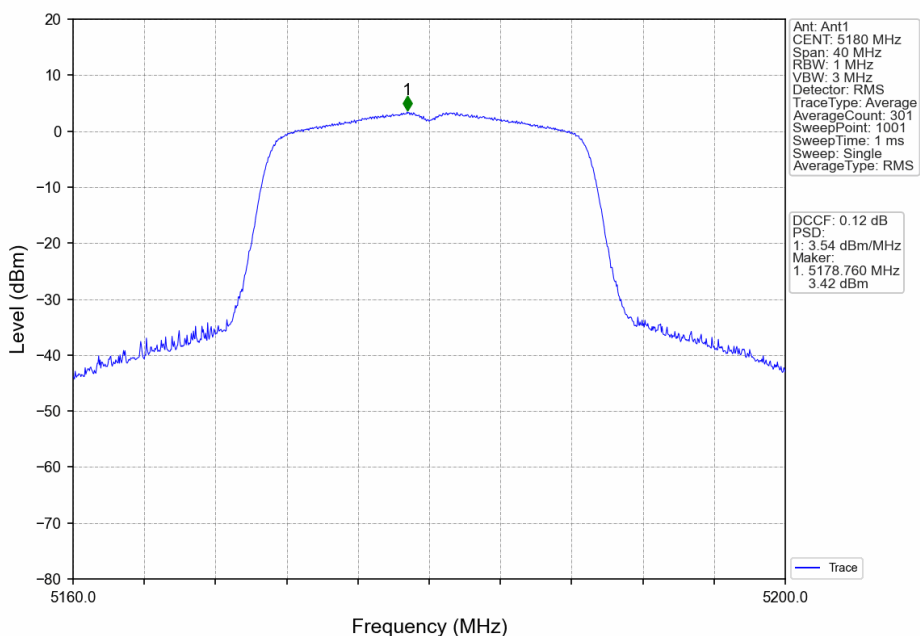
802.11a_MCH_5300MHz_Ant1_NTNV



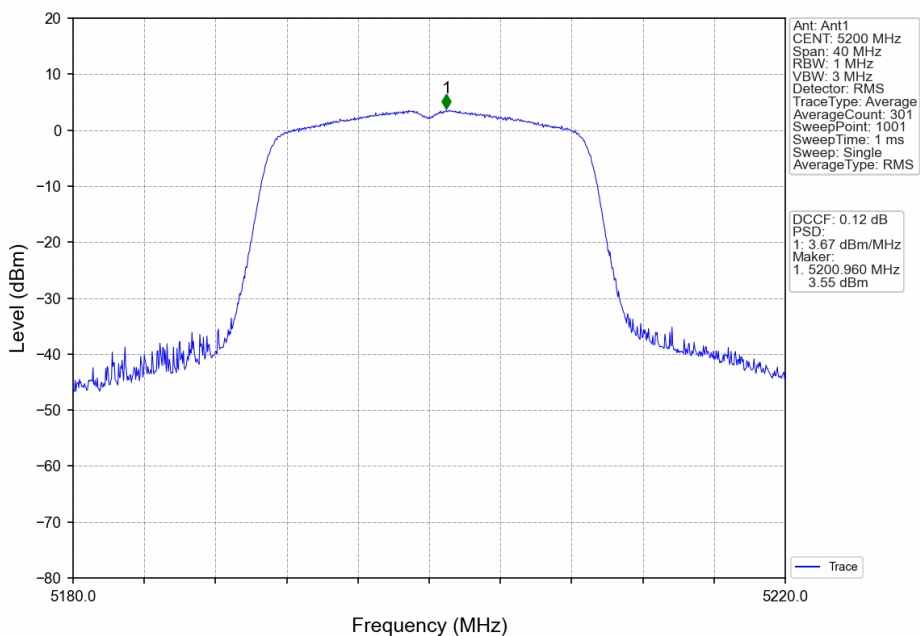
802.11a_HCH_5320MHz_Ant1_NTNV



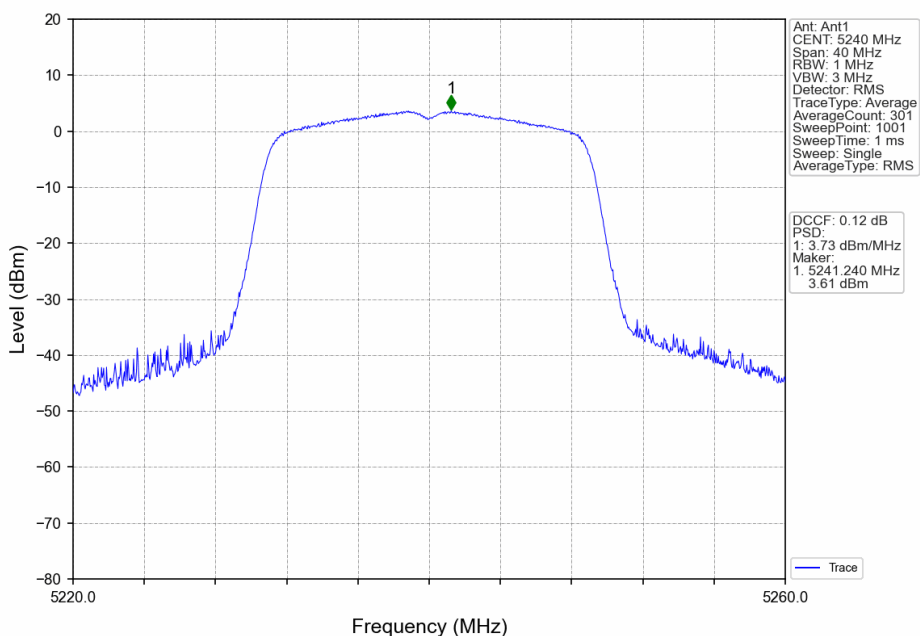
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



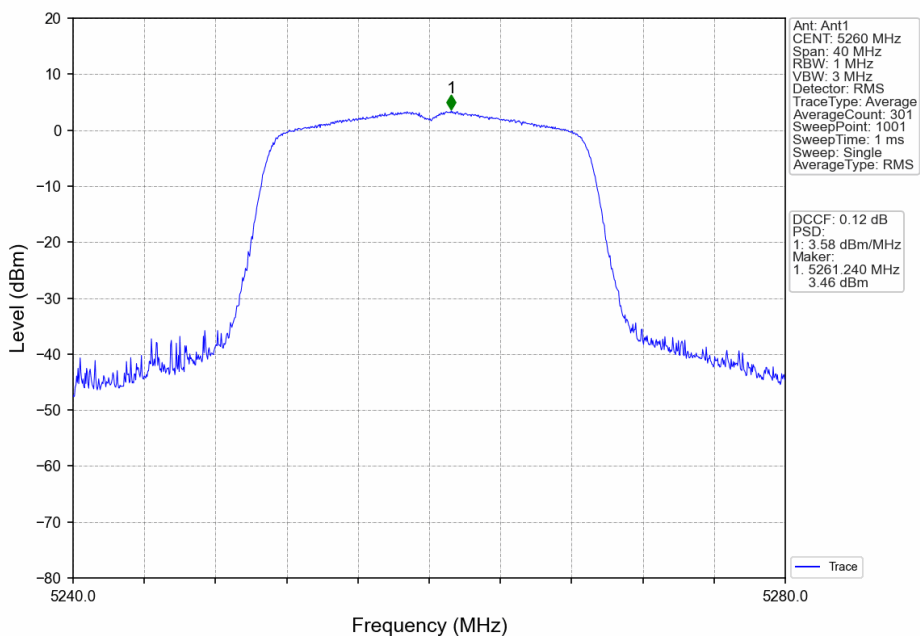
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



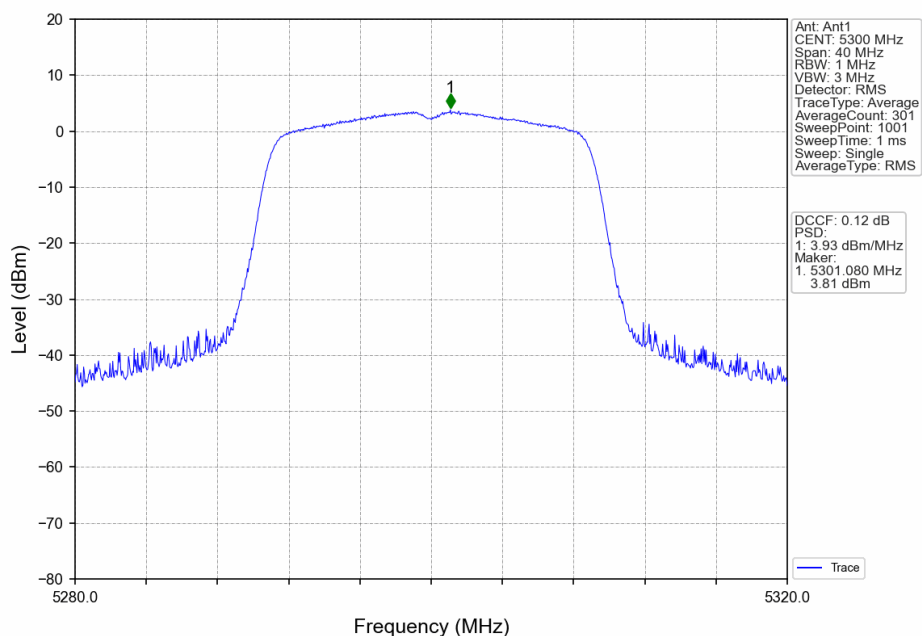
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



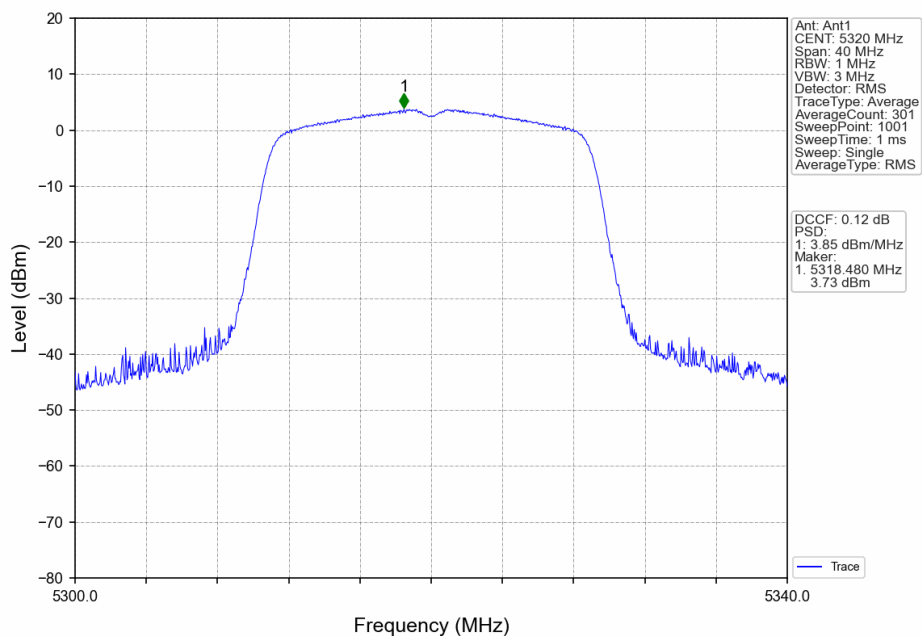
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



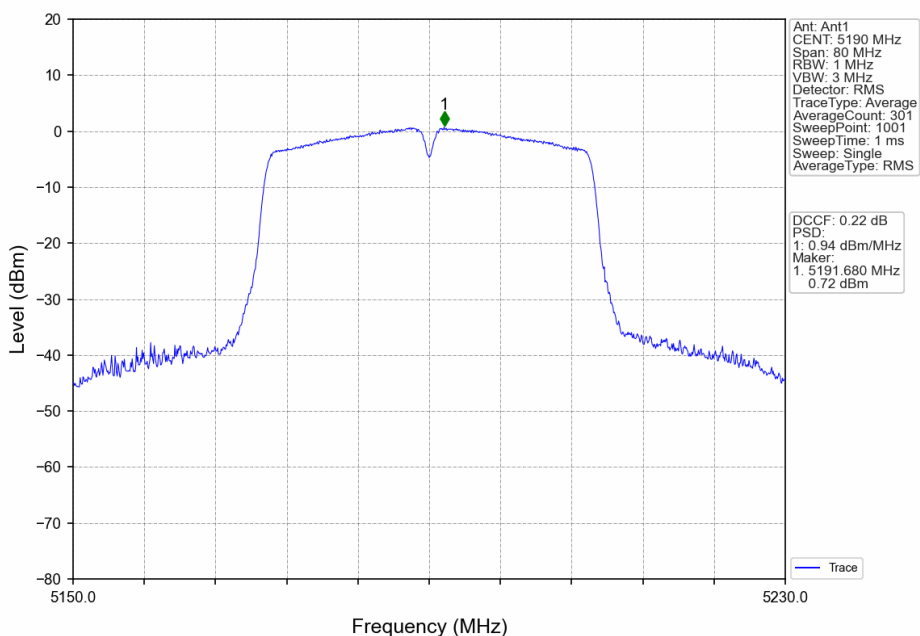
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



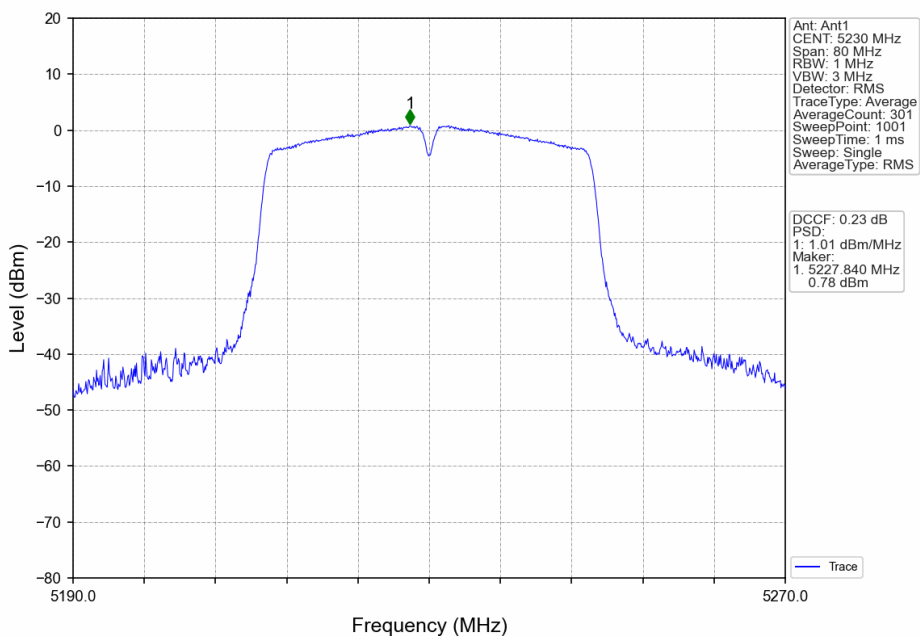
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



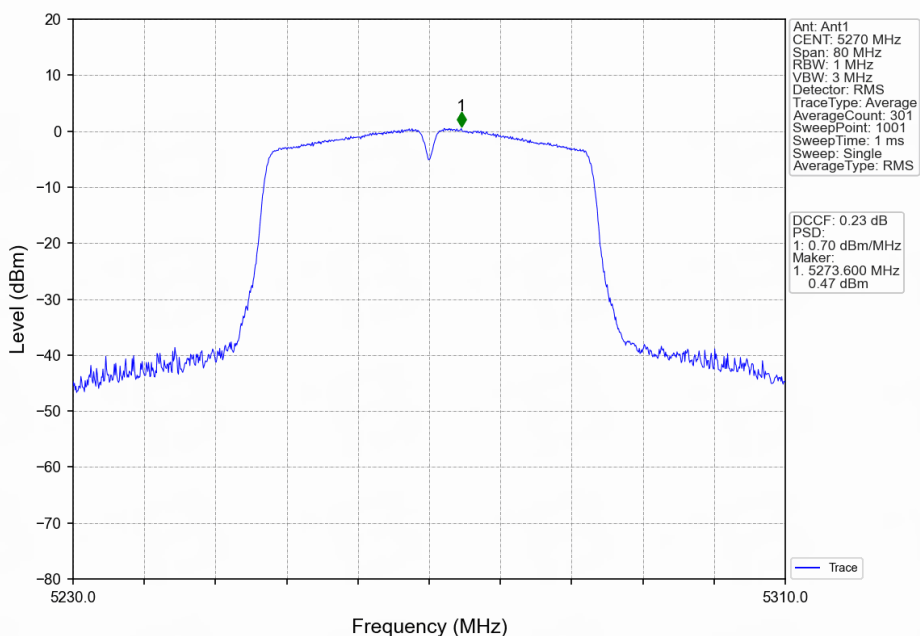
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



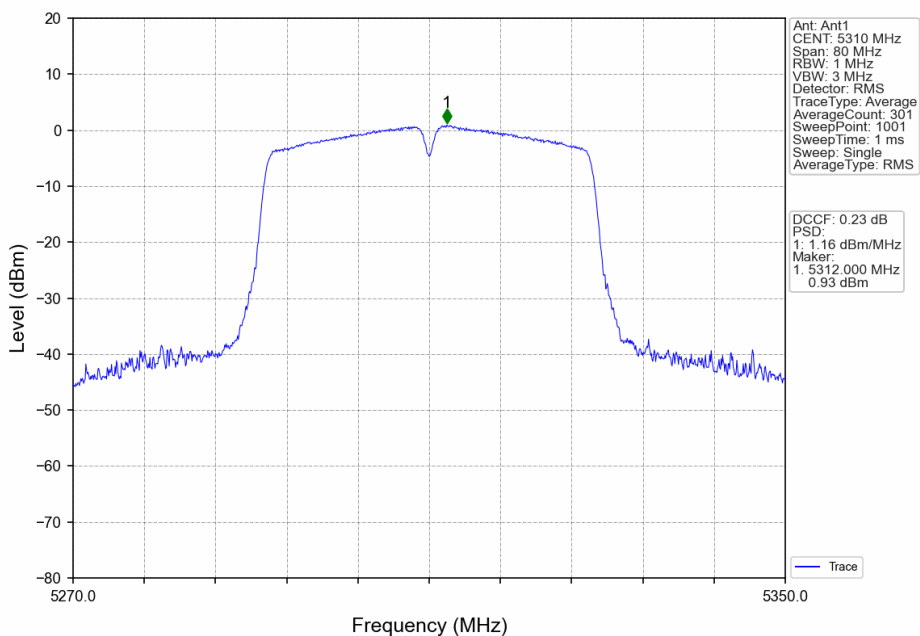
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV

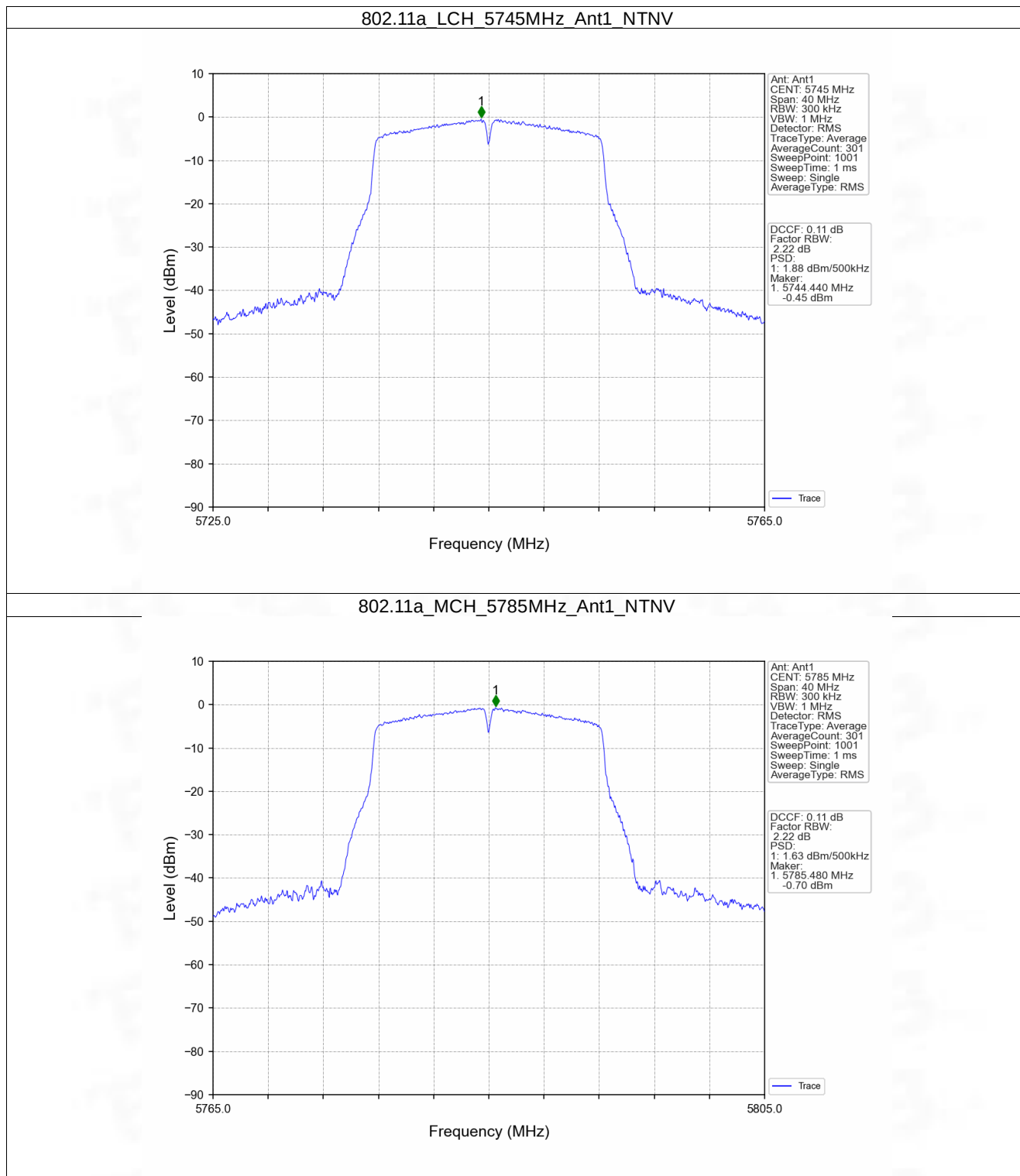


4.2 PSD-Band3

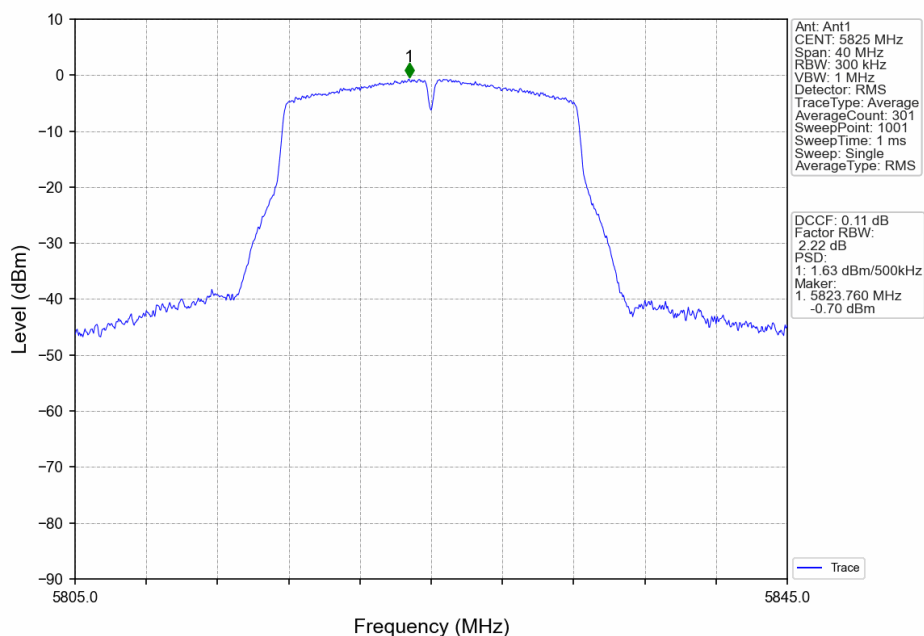
4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	1.88	<=30	Pass
		5785	1.63	<=30	Pass
		5825	1.63	<=30	Pass
802.11n (HT20)	SISO	5745	1.45	<=30	Pass
		5785	1.28	<=30	Pass
		5825	1.53	<=30	Pass
802.11n (HT40)	SISO	5755	-1.57	<=30	Pass
		5795	-1.55	<=30	Pass
Note1: Antenna Gain: Ant1: 1.11dBi:					

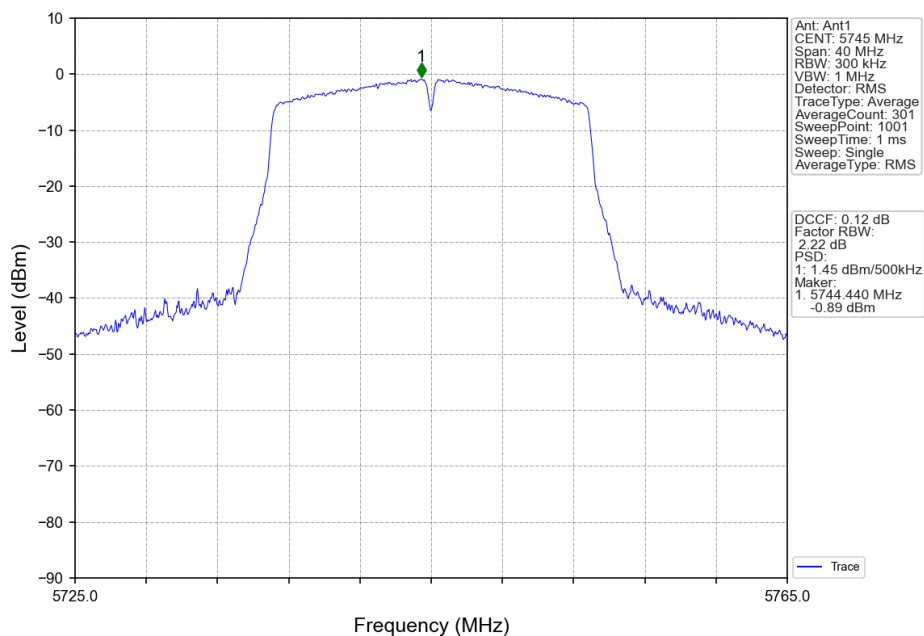
4.2.2 Test Graph



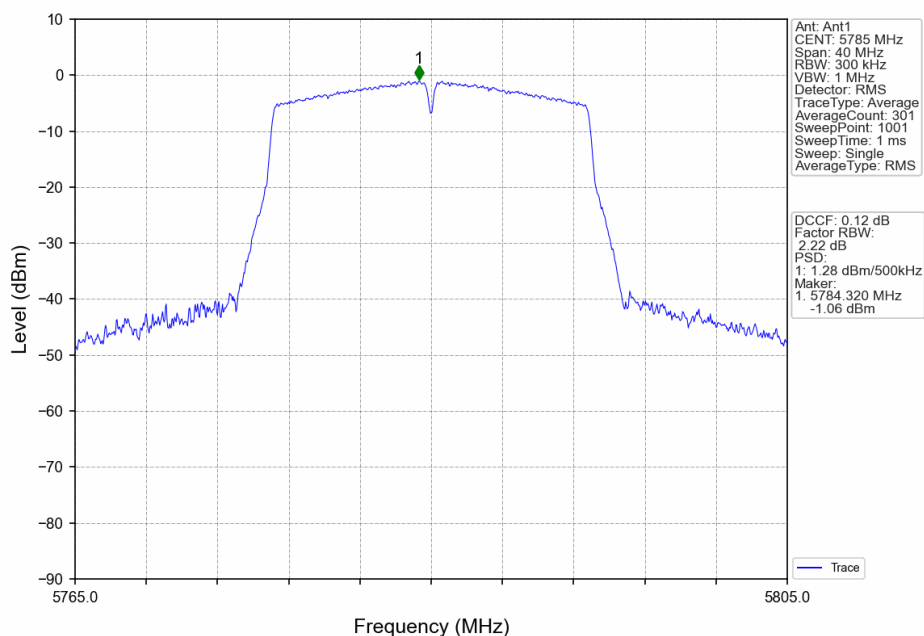
802.11a_HCH_5825MHz_Ant1_NTNV



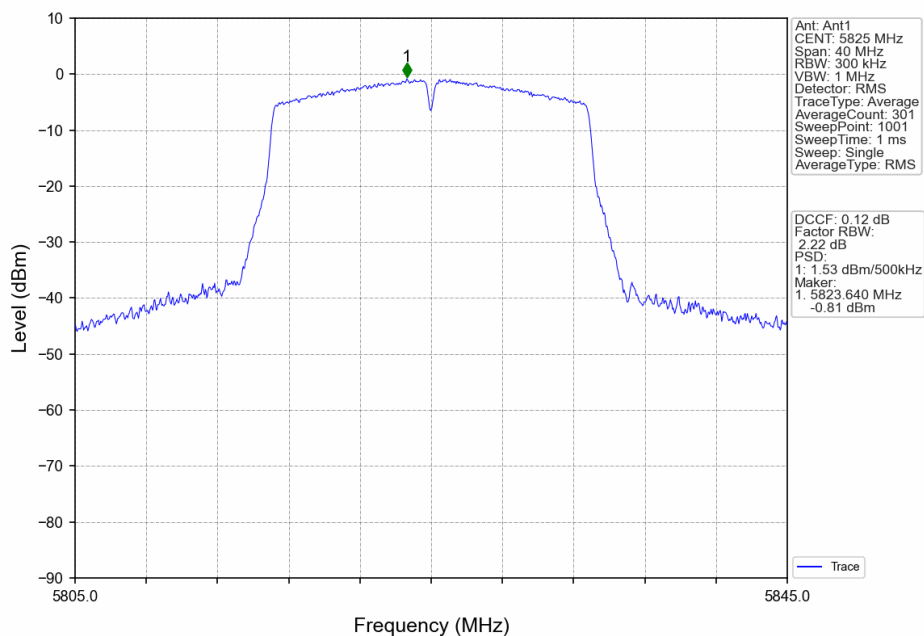
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



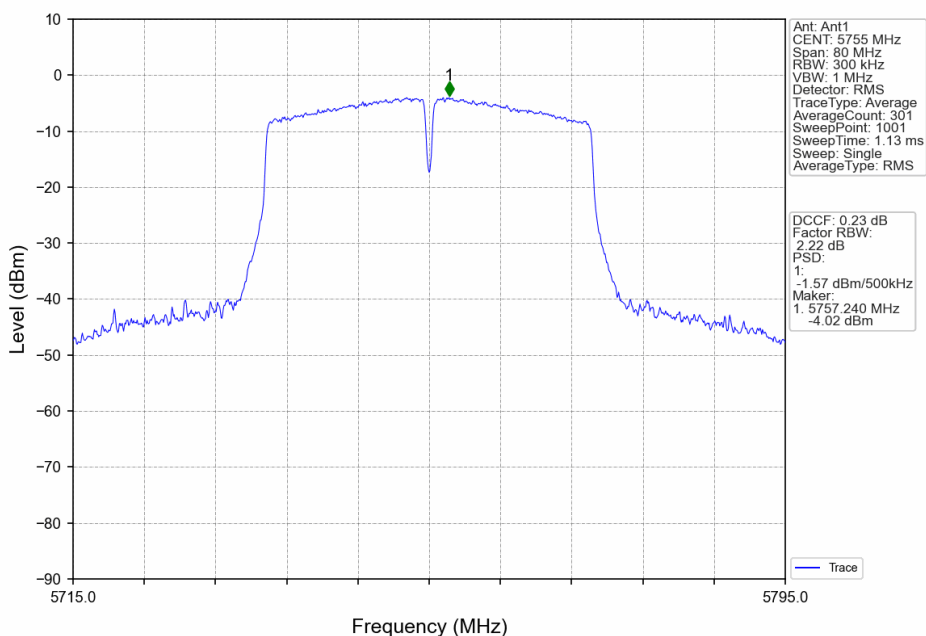
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



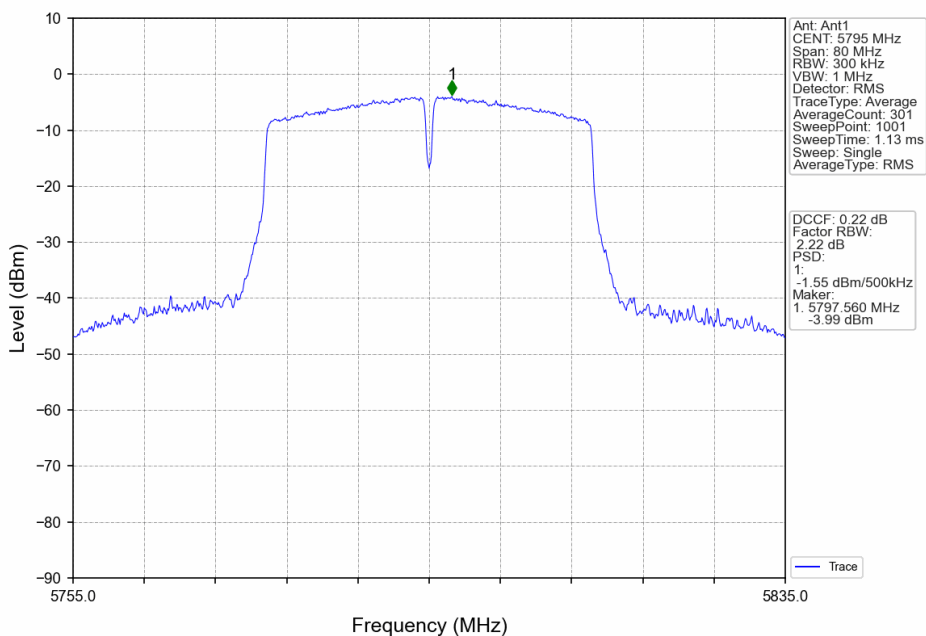
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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	5179.969	5150 to 5250	Pass
			-30	120	5179.968	5150 to 5250	Pass
			-20	120	5179.969	5150 to 5250	Pass
			-10	120	5179.969	5150 to 5250	Pass
			0	120	5179.969	5150 to 5250	Pass
			10	120	5179.969	5150 to 5250	Pass
			30	120	5179.968	5150 to 5250	Pass
			40	120	5179.969	5150 to 5250	Pass
			50	120	5179.968	5150 to 5250	Pass
		5200	20	102	5199.968	5150 to 5250	Pass
				120	5199.968	5150 to 5250	Pass
				138	5199.968	5150 to 5250	Pass
			-30	120	5199.968	5150 to 5250	Pass
			-20	120	5199.968	5150 to 5250	Pass
			-10	120	5199.968	5150 to 5250	Pass
			0	120	5199.968	5150 to 5250	Pass
			10	120	5199.968	5150 to 5250	Pass
			30	120	5199.967	5150 to 5250	Pass
			40	120	5199.968	5150 to 5250	Pass
			50	120	5199.968	5150 to 5250	Pass
		5240	20	102	5239.968	5150 to 5250	Pass
				120	5239.967	5150 to 5250	Pass
				138	5239.967	5150 to 5250	Pass
			-30	120	5239.967	5150 to 5250	Pass
			-20	120	5239.967	5150 to 5250	Pass
			-10	120	5239.967	5150 to 5250	Pass
			0	120	5239.967	5150 to 5250	Pass
			10	120	5239.967	5150 to 5250	Pass
			30	120	5239.967	5150 to 5250	Pass
			40	120	5239.967	5150 to 5250	Pass
			50	120	5239.968	5150 to 5250	Pass
		5260	20	102	5259.985	5250 to 5350	Pass
				120	5259.984	5250 to 5350	Pass
				138	5259.984	5250 to 5350	Pass
			-30	120	5259.983	5250 to 5350	Pass
			-20	120	5259.982	5250 to 5350	Pass
			-10	120	5259.981	5250 to 5350	Pass
			0	120	5259.981	5250 to 5350	Pass
			10	120	5259.980	5250 to 5350	Pass
			30	120	5259.978	5250 to 5350	Pass
			40	120	5259.977	5250 to 5350	Pass
			50	120	5259.978	5250 to 5350	Pass
		5300	20	102	5299.975	5250 to 5350	Pass
				120	5299.975	5250 to 5350	Pass
				138	5299.973	5250 to 5350	Pass

			-30	120	5299.973	5250 to 5350	Pass
			-20	120	5299.972	5250 to 5350	Pass
			-10	120	5299.971	5250 to 5350	Pass
			0	120	5299.970	5250 to 5350	Pass
			10	120	5299.969	5250 to 5350	Pass
			30	120	5299.969	5250 to 5350	Pass
			40	120	5299.969	5250 to 5350	Pass
			50	120	5299.969	5250 to 5350	Pass
		5320	20	102	5319.969	5250 to 5350	Pass
				120	5319.969	5250 to 5350	Pass
				138	5319.968	5250 to 5350	Pass
			-30	120	5319.967	5250 to 5350	Pass
			-20	120	5319.968	5250 to 5350	Pass
			-10	120	5319.969	5250 to 5350	Pass
			0	120	5319.972	5250 to 5350	Pass
			10	120	5319.972	5250 to 5350	Pass
			30	120	5319.972	5250 to 5350	Pass
			40	120	5319.972	5250 to 5350	Pass
			50	120	5319.971	5250 to 5350	Pass
		5745	20	102	5744.967	5725 to 5850	Pass
				120	5744.967	5725 to 5850	Pass
				138	5744.967	5725 to 5850	Pass
			-30	120	5744.967	5725 to 5850	Pass
			-20	120	5744.967	5725 to 5850	Pass
			-10	120	5744.967	5725 to 5850	Pass
			0	120	5744.967	5725 to 5850	Pass
			10	120	5744.966	5725 to 5850	Pass
			30	120	5744.967	5725 to 5850	Pass
			40	120	5744.966	5725 to 5850	Pass
			50	120	5744.966	5725 to 5850	Pass
		5785	20	102	5784.966	5725 to 5850	Pass
				120	5784.966	5725 to 5850	Pass
				138	5784.967	5725 to 5850	Pass
			-30	120	5784.966	5725 to 5850	Pass
			-20	120	5784.966	5725 to 5850	Pass
			-10	120	5784.965	5725 to 5850	Pass
			0	120	5784.966	5725 to 5850	Pass
			10	120	5784.966	5725 to 5850	Pass
			30	120	5784.966	5725 to 5850	Pass
			40	120	5784.966	5725 to 5850	Pass
			50	120	5784.966	5725 to 5850	Pass
		5825	20	102	5824.966	5725 to 5850	Pass
				120	5824.965	5725 to 5850	Pass
				138	5824.966	5725 to 5850	Pass
			-30	120	5824.965	5725 to 5850	Pass
			-20	120	5824.965	5725 to 5850	Pass
			-10	120	5824.966	5725 to 5850	Pass
			0	120	5824.966	5725 to 5850	Pass
			10	120	5824.965	5725 to 5850	Pass
			30	120	5824.965	5725 to 5850	Pass
			40	120	5824.965	5725 to 5850	Pass
			50	120	5824.964	5725 to 5850	Pass
		5190	20	102	5189.967	5150 to 5250	Pass
				120	5189.968	5150 to 5250	Pass
				138	5189.967	5150 to 5250	Pass
			-30	120	5189.967	5150 to 5250	Pass
			-20	120	5189.967	5150 to 5250	Pass
			-10	120	5189.967	5150 to 5250	Pass

			0	120	5189.967	5150 to 5250	Pass
			10	120	5189.967	5150 to 5250	Pass
			30	120	5189.967	5150 to 5250	Pass
			40	120	5189.967	5150 to 5250	Pass
			50	120	5189.967	5150 to 5250	Pass
		5230	20	102	5229.968	5150 to 5250	Pass
				120	5229.967	5150 to 5250	Pass
				138	5229.967	5150 to 5250	Pass
			-30	120	5229.967	5150 to 5250	Pass
			-20	120	5229.967	5150 to 5250	Pass
			-10	120	5229.967	5150 to 5250	Pass
			0	120	5229.967	5150 to 5250	Pass
			10	120	5229.967	5150 to 5250	Pass
			30	120	5229.967	5150 to 5250	Pass
			40	120	5229.967	5150 to 5250	Pass
			50	120	5229.967	5150 to 5250	Pass
		5270	20	102	5269.972	5250 to 5350	Pass
				120	5269.972	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	5269.971	5250 to 5350	Pass
			10	120	5269.970	5250 to 5350	Pass
			30	120	5269.971	5250 to 5350	Pass
			40	120	5269.970	5250 to 5350	Pass
			50	120	5269.971	5250 to 5350	Pass
		5310	20	102	5309.970	5250 to 5350	Pass
				120	5309.970	5250 to 5350	Pass
				138	5309.970	5250 to 5350	Pass
			-30	120	5309.970	5250 to 5350	Pass
			-20	120	5309.970	5250 to 5350	Pass
			-10	120	5309.970	5250 to 5350	Pass
			0	120	5309.970	5250 to 5350	Pass
			10	120	5309.970	5250 to 5350	Pass
			30	120	5309.969	5250 to 5350	Pass
			40	120	5309.969	5250 to 5350	Pass
			50	120	5309.969	5250 to 5350	Pass
		5755	20	102	5754.966	5725 to 5850	Pass
				120	5754.967	5725 to 5850	Pass
				138	5754.966	5725 to 5850	Pass
			-30	120	5754.966	5725 to 5850	Pass
			-20	120	5754.966	5725 to 5850	Pass
			-10	120	5754.966	5725 to 5850	Pass
			0	120	5754.966	5725 to 5850	Pass
			10	120	5754.966	5725 to 5850	Pass
			30	120	5754.965	5725 to 5850	Pass
			40	120	5754.966	5725 to 5850	Pass
			50	120	5754.966	5725 to 5850	Pass
		5795	20	102	5794.966	5725 to 5850	Pass
				120	5794.966	5725 to 5850	Pass
				138	5794.965	5725 to 5850	Pass
			-30	120	5794.965	5725 to 5850	Pass
			-20	120	5794.965	5725 to 5850	Pass
			-10	120	5794.965	5725 to 5850	Pass
			0	120	5794.965	5725 to 5850	Pass
			10	120	5794.965	5725 to 5850	Pass
			30	120	5794.965	5725 to 5850	Pass

			40	120	5794.965	5725 to 5850	Pass
			50	120	5794.965	5725 to 5850	Pass

6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5180	5240	0.0428	16.31
5260	5320	0.0279	14.46
5745	5825	0.0309	14.90
5190	5230	0.0275	14.40
5270	5310	0.0274	14.38
5755	5795	0.0304	14.83



Test Report Number: BTF230413R01504



BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,
Bao'an District, Shenzhen, China

www.btf-lab.com

-- END OF REPORT --