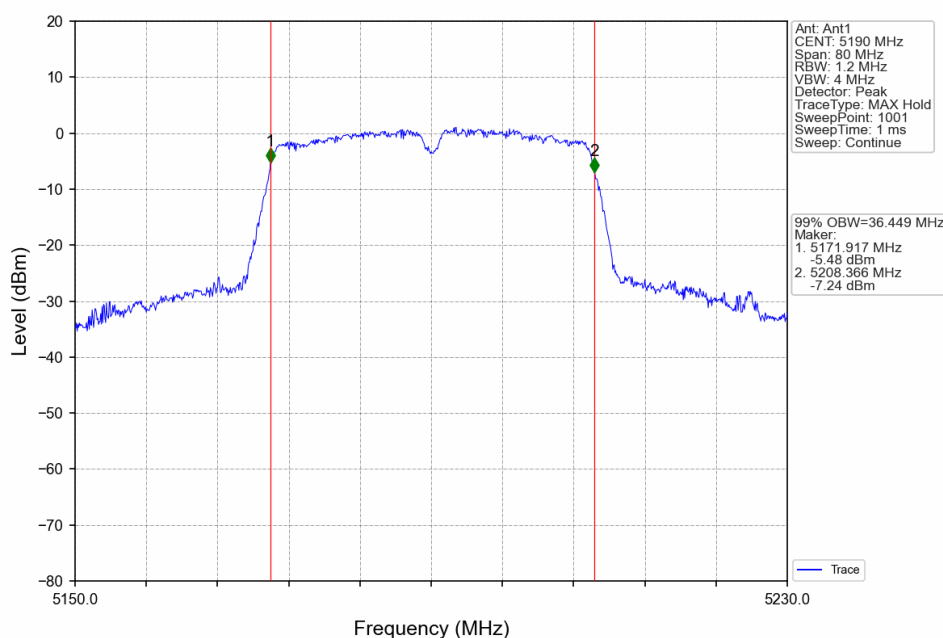
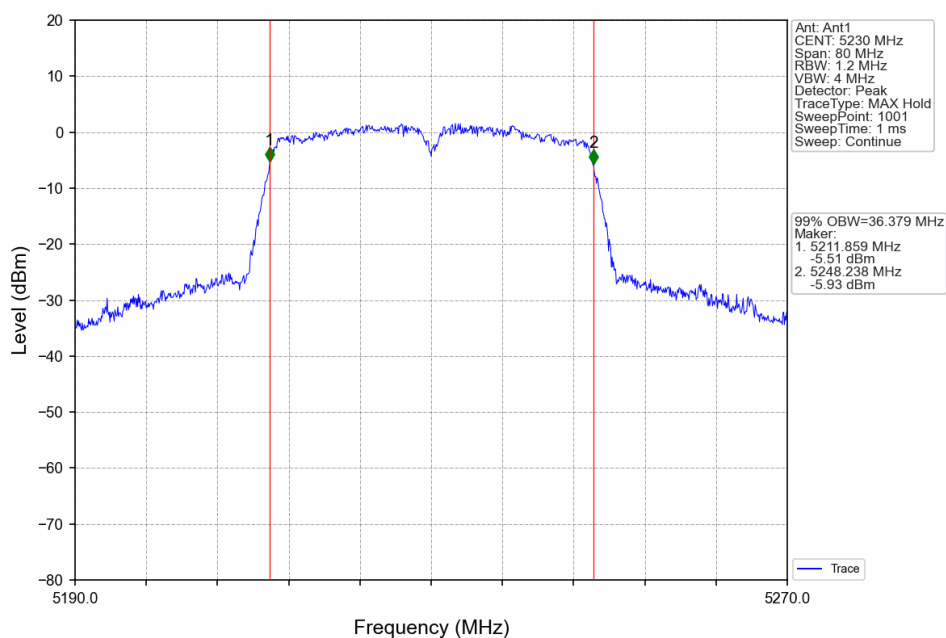


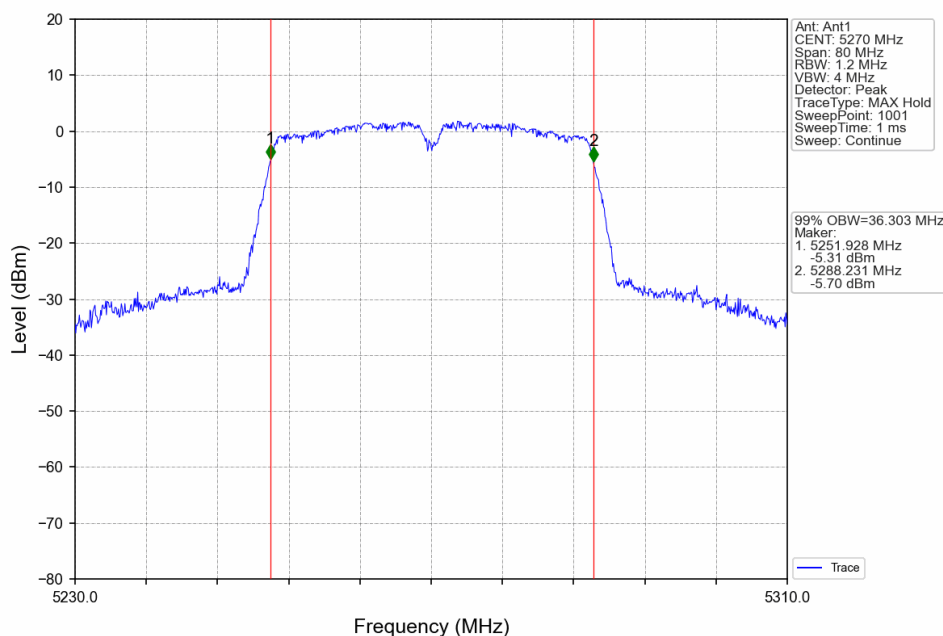
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



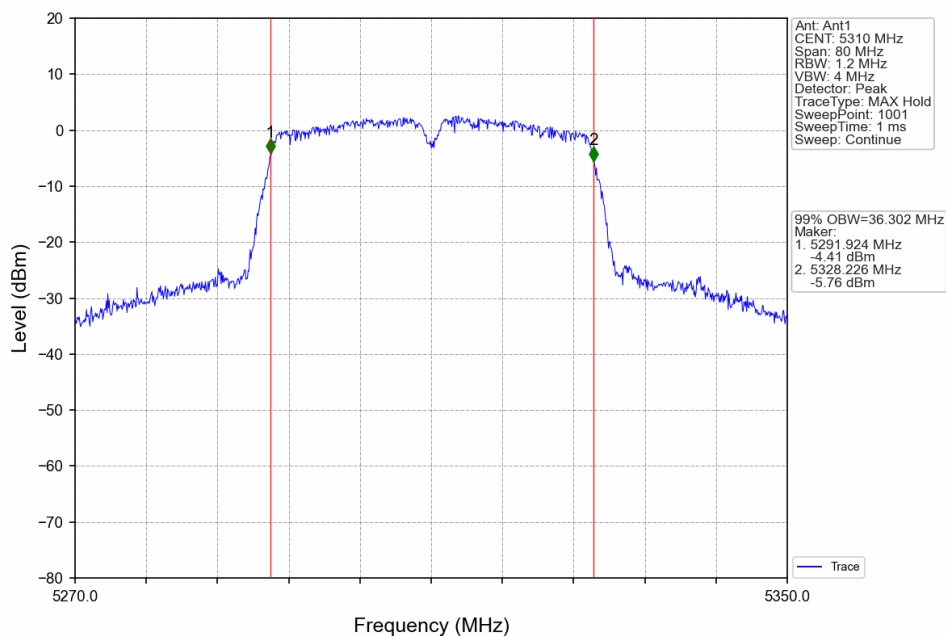
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



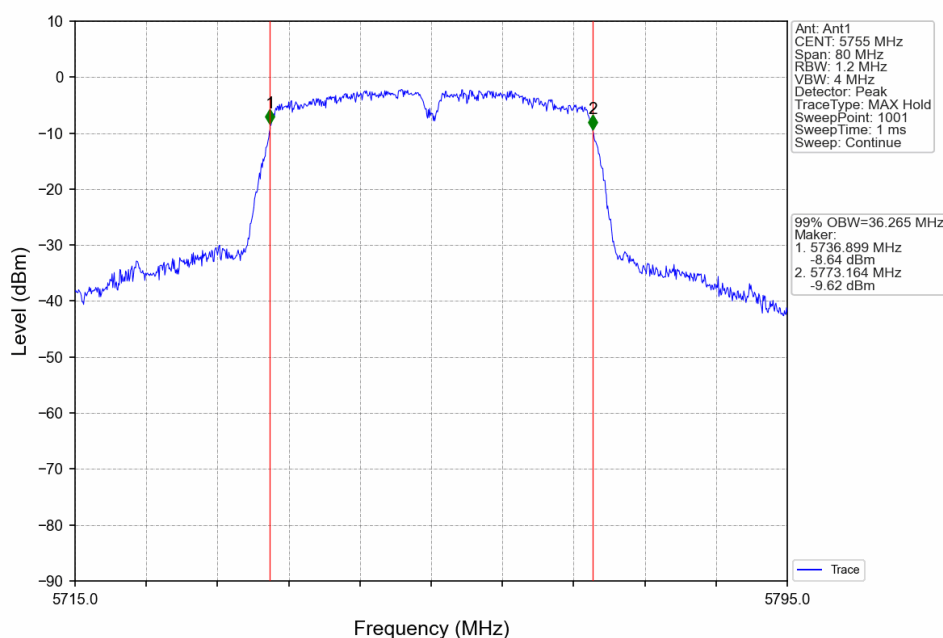
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



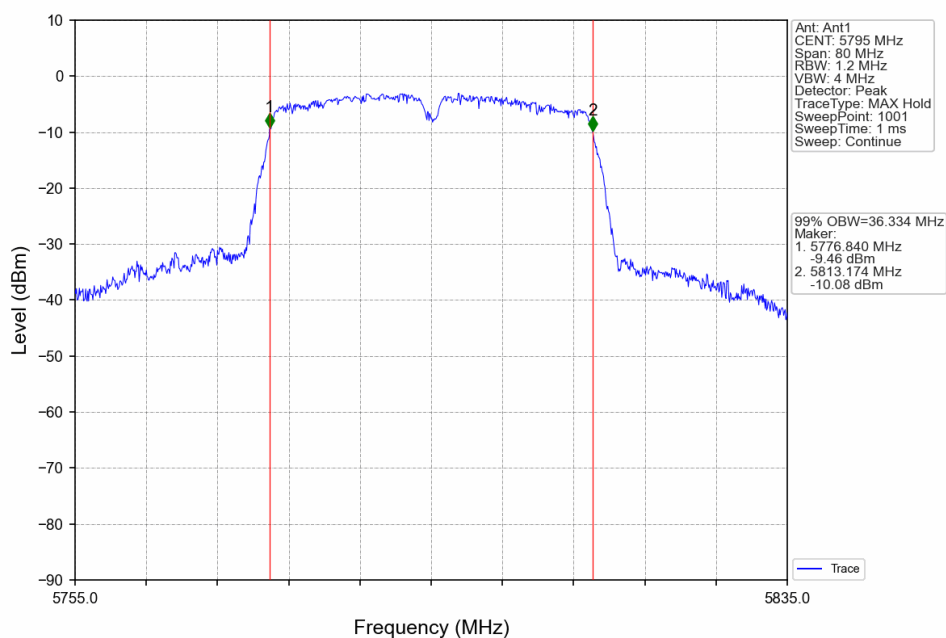
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

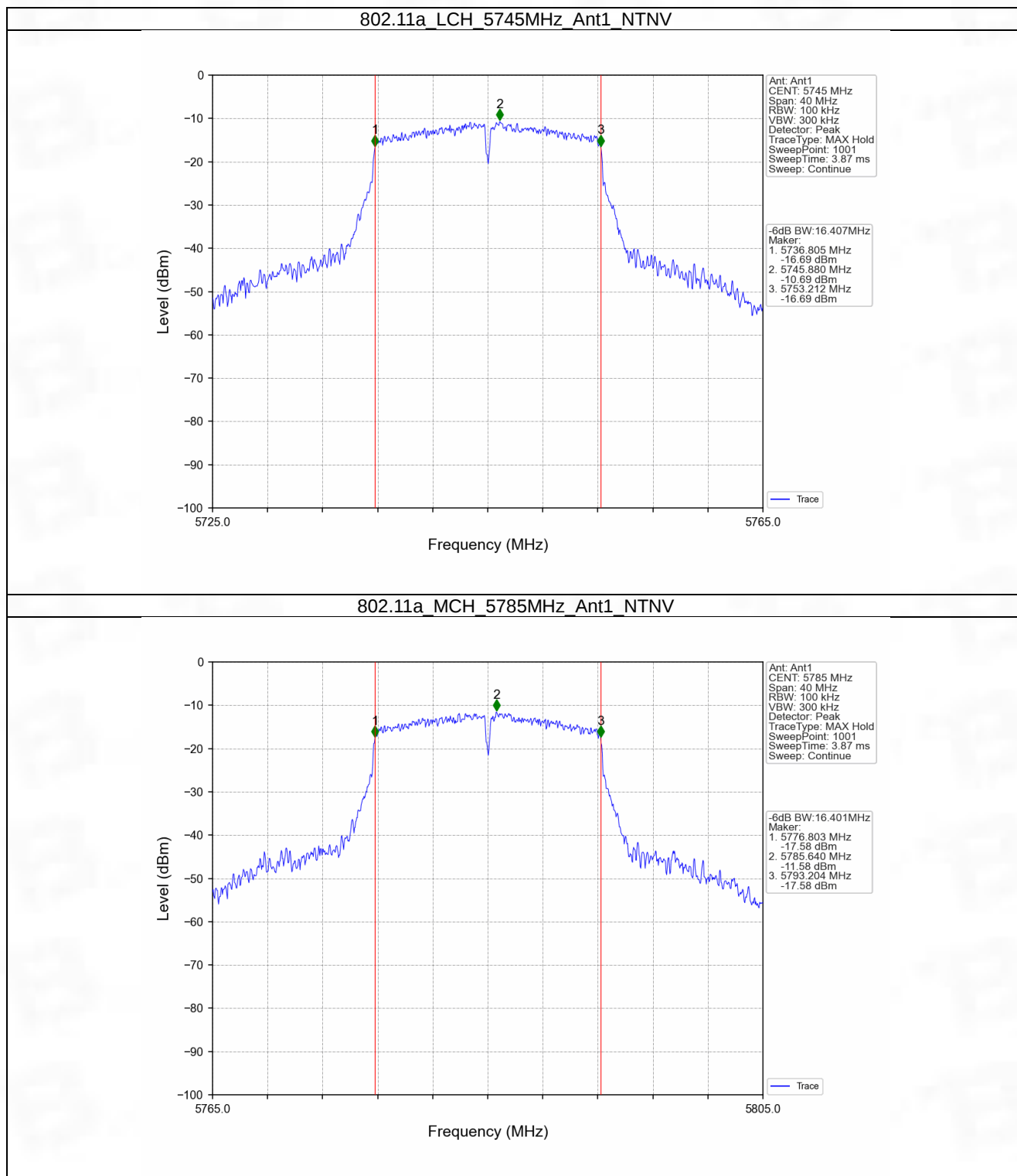


2.2 6dB BW

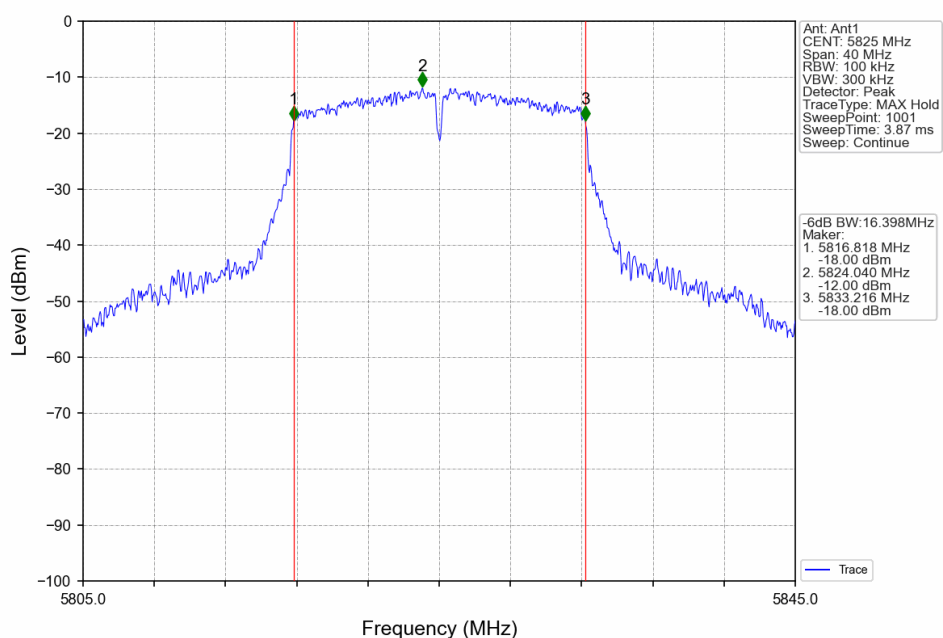
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.407	≥ 0.5	Pass
		5785	1	16.401	≥ 0.5	Pass
		5825	1	16.398	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.625	≥ 0.5	Pass
		5785	1	17.623	≥ 0.5	Pass
		5825	1	17.620	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.361	≥ 0.5	Pass
		5795	1	36.368	≥ 0.5	Pass

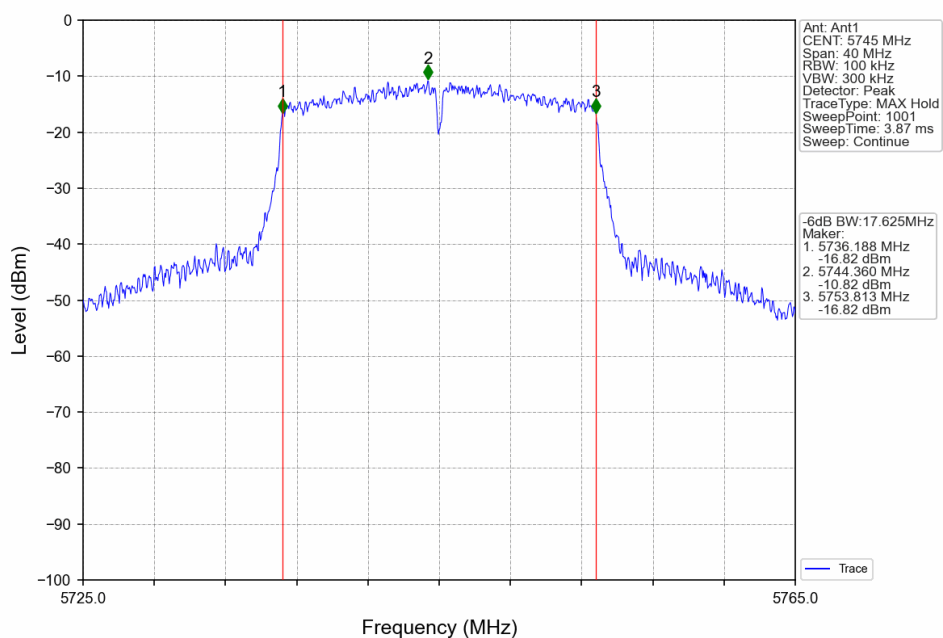
2.2.2 Test Graph



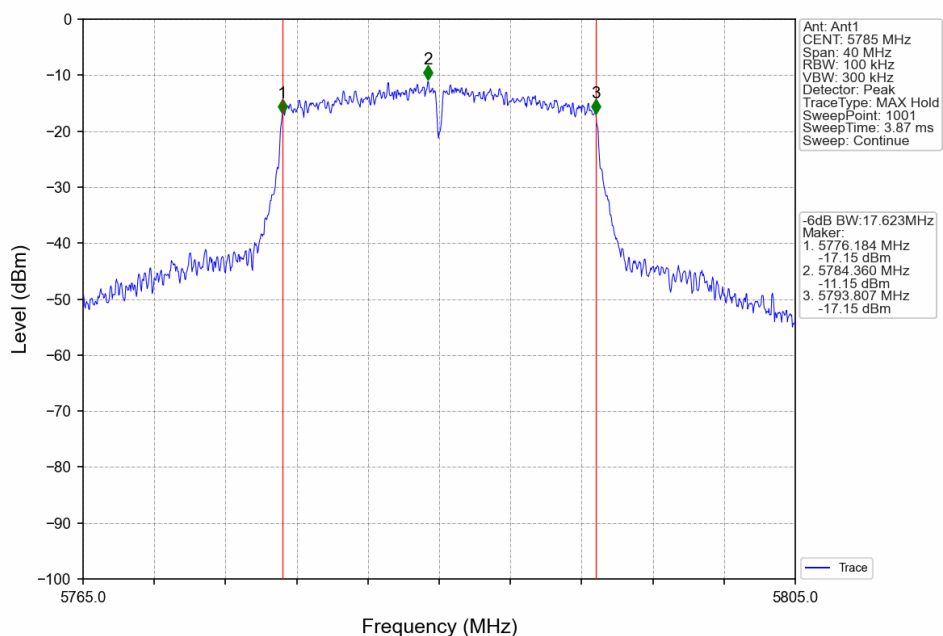
802.11a_HCH_5825MHz_Ant1_NTNV



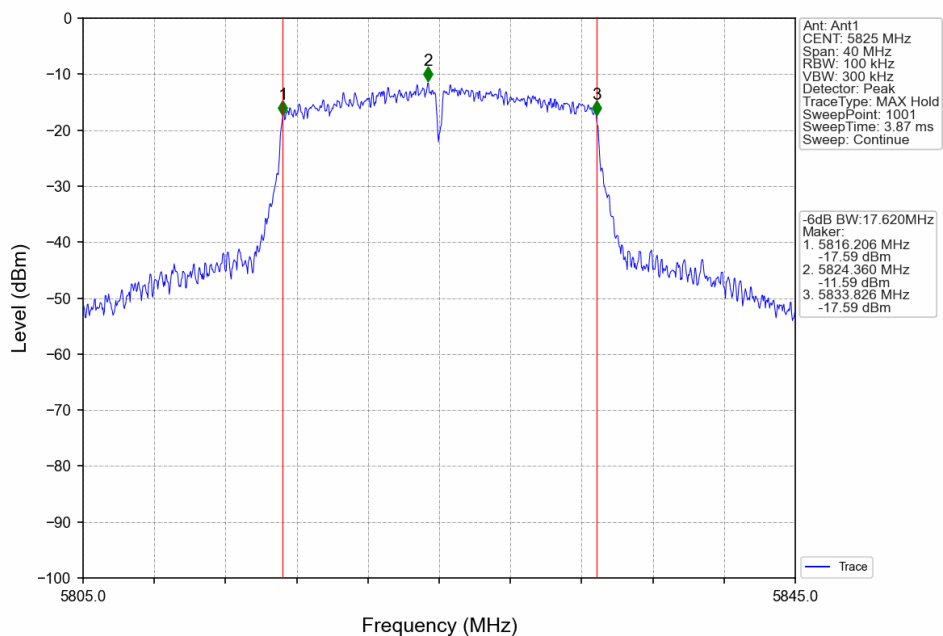
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



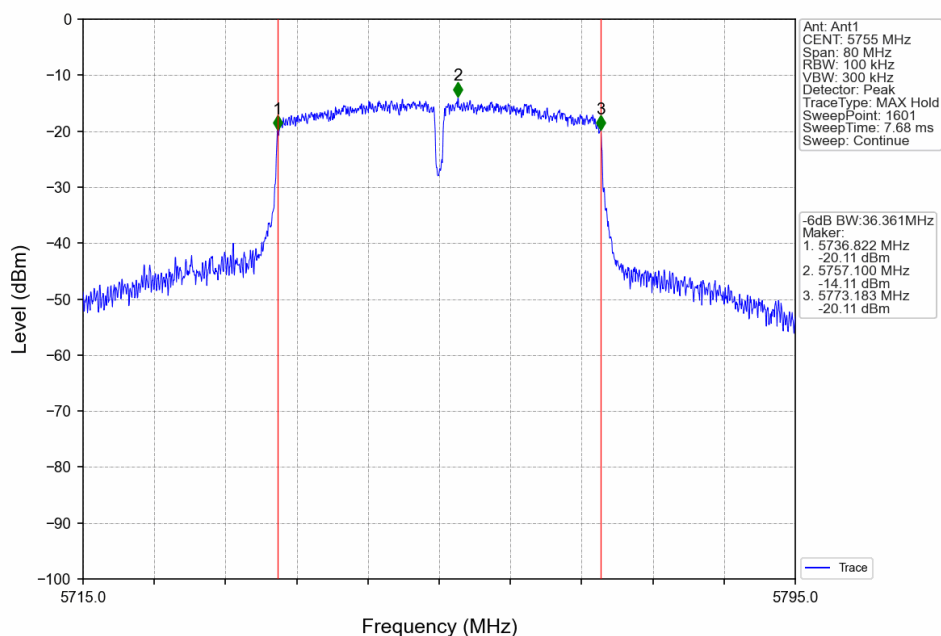
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



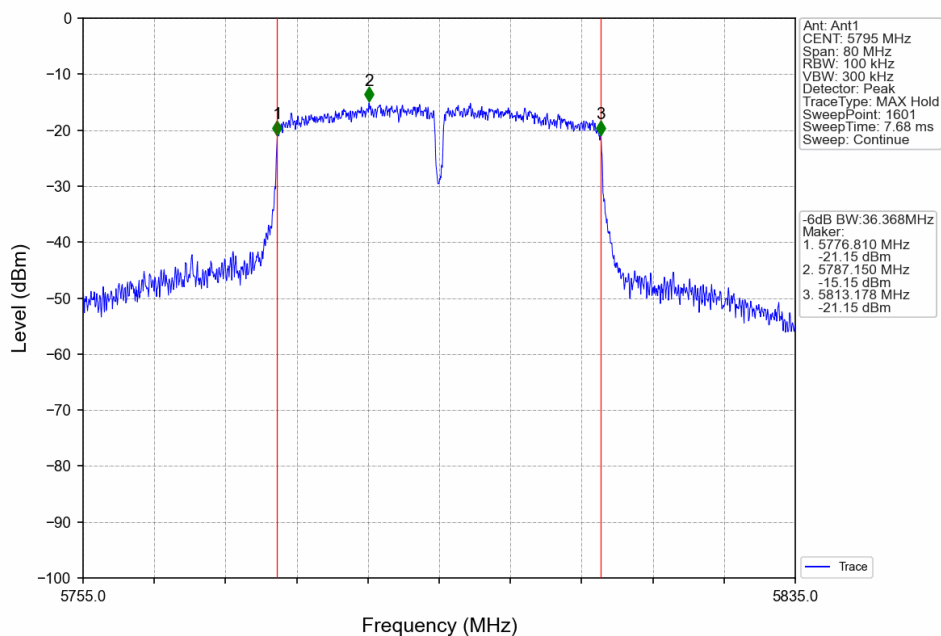
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

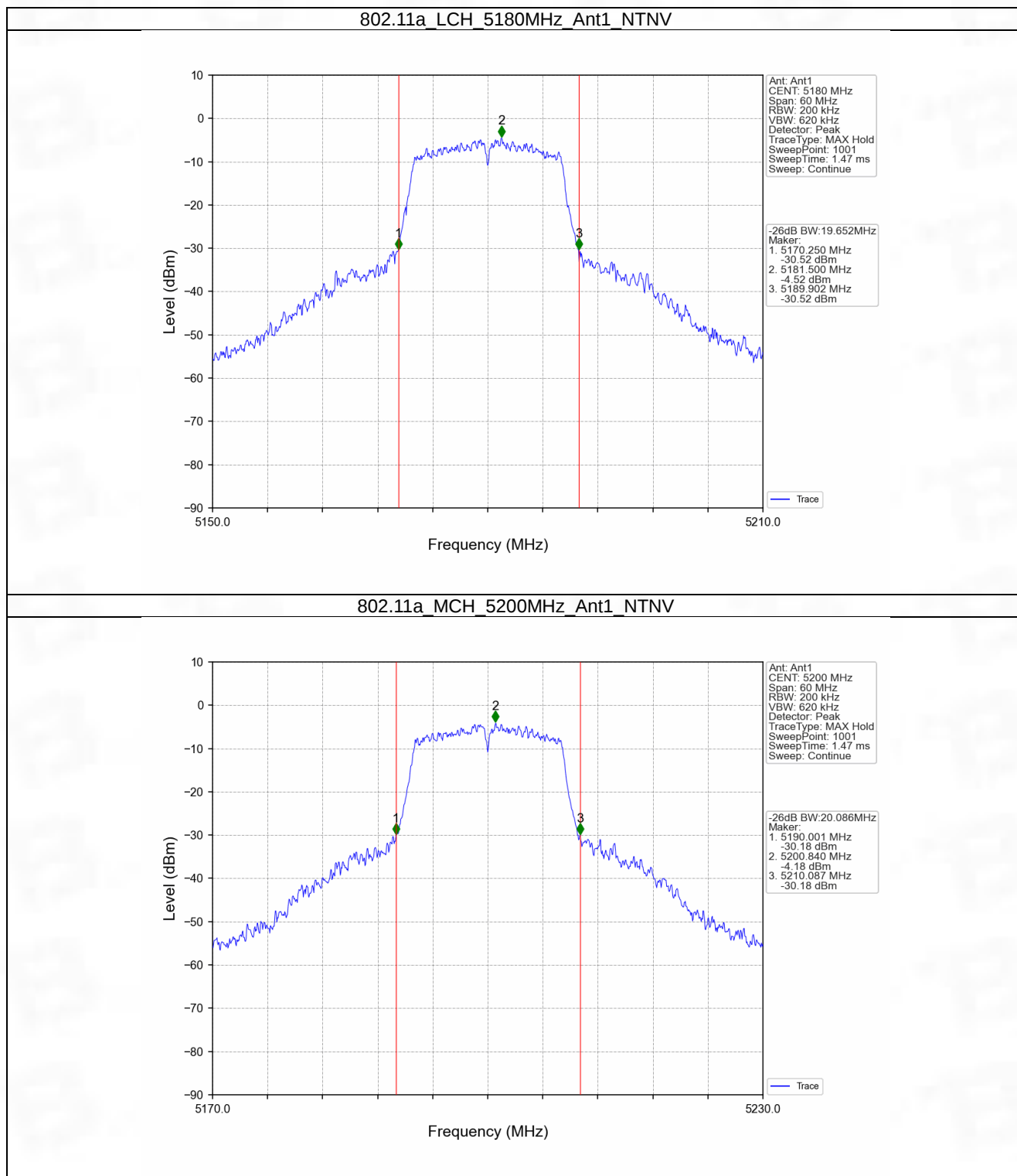


2.3 26dB BW

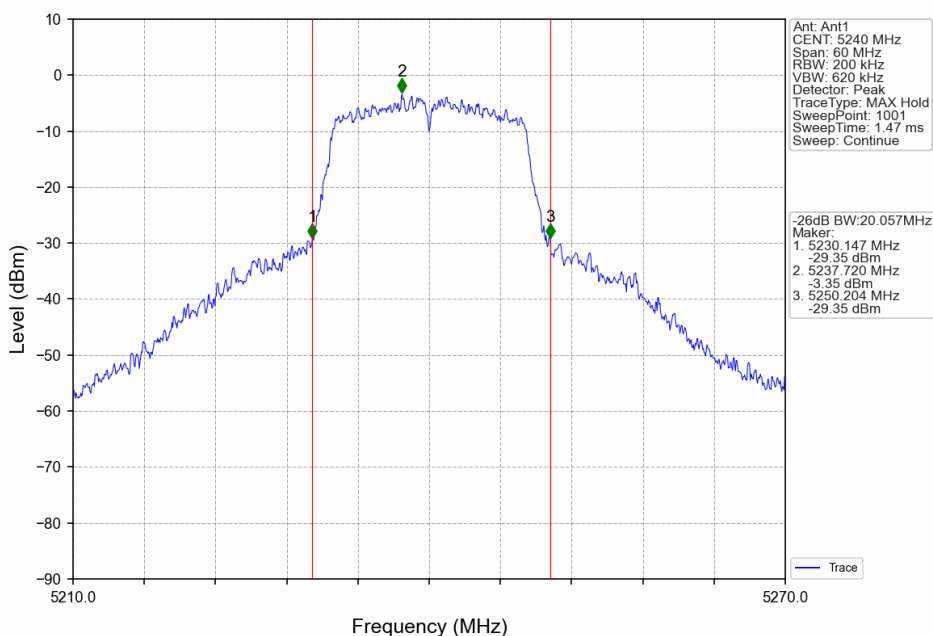
2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	19.652	Pass
		5200	1	20.086	Pass
		5240	1	20.057	Pass
		5260	1	19.708	Pass
		5300	1	19.540	Pass
		5320	1	19.353	Pass
802.11n (HT20)	SISO	5180	1	21.407	Pass
		5200	1	23.838	Pass
		5240	1	20.375	Pass
		5260	1	19.914	Pass
		5300	1	19.952	Pass
802.11n (HT40)	SISO	5320	1	20.244	Pass
		5190	1	40.691	Pass
		5230	1	41.085	Pass
		5270	1	40.493	Pass
		5310	1	40.453	Pass

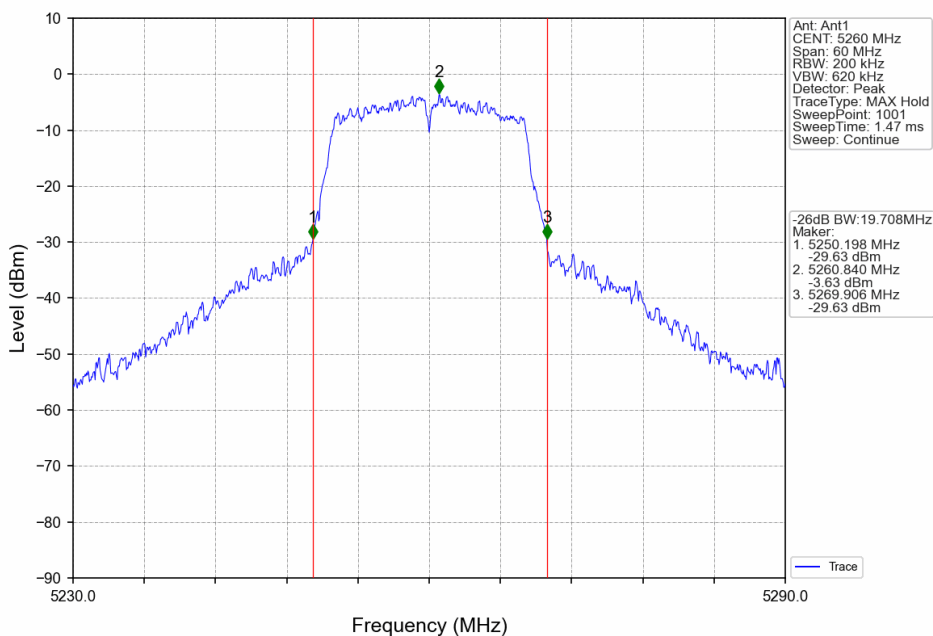
2.3.2 Test Graph



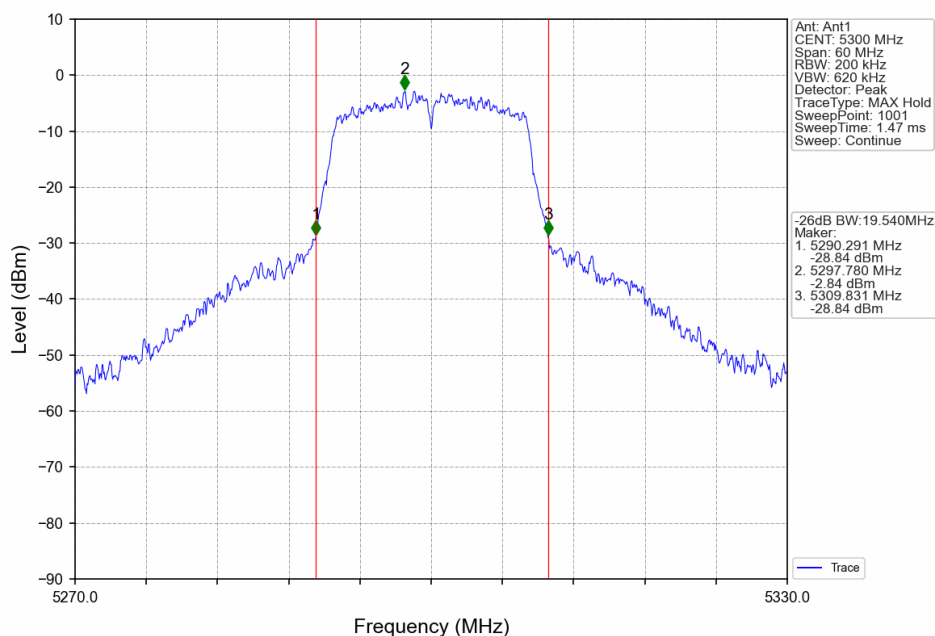
802.11a_HCH_5240MHz_Ant1_NTNV



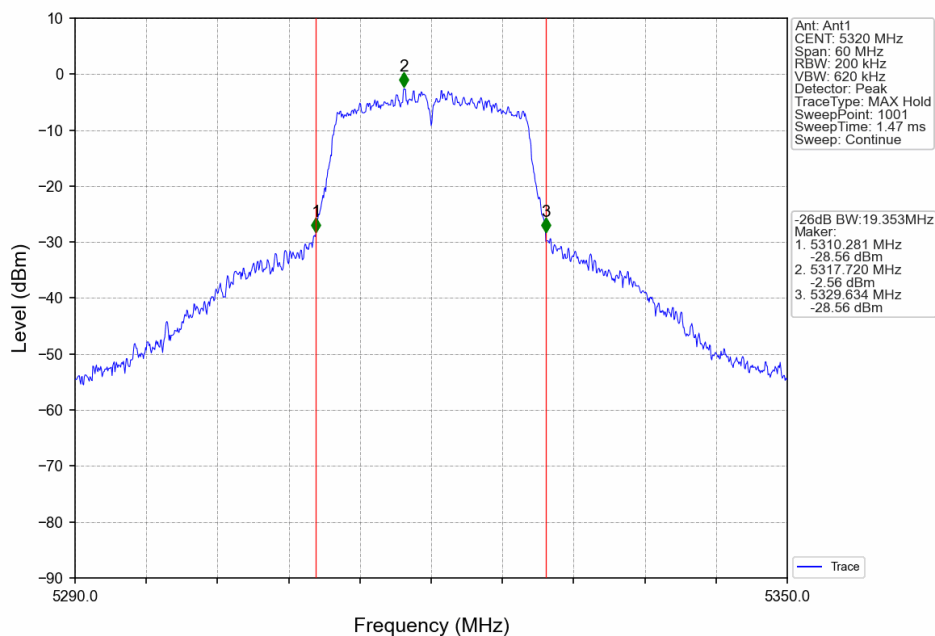
802.11a_LCH_5260MHz_Ant1_NTNV



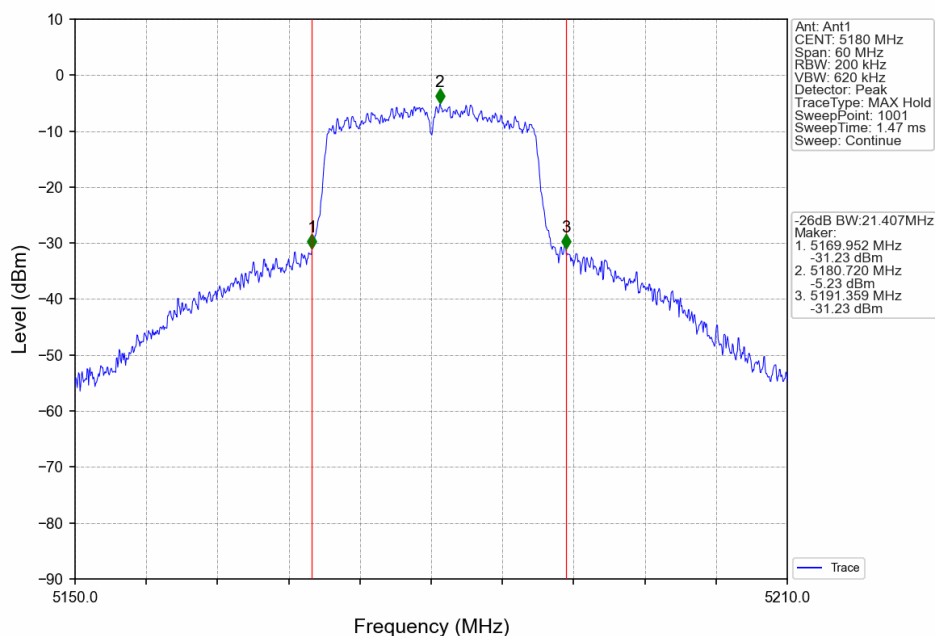
802.11a_MCH_5300MHz_Ant1_NTNV



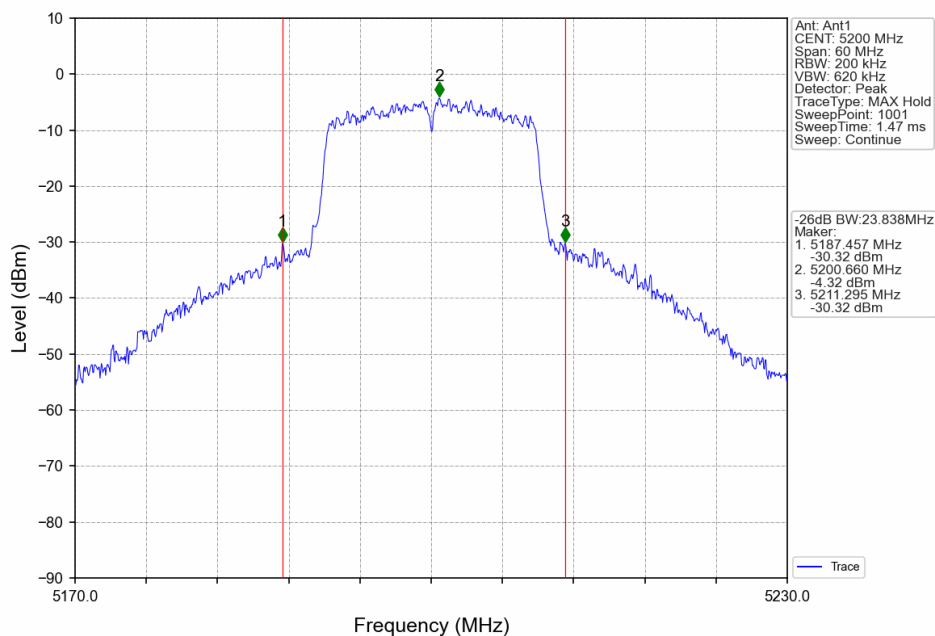
802.11a_HCH_5320MHz_Ant1_NTNV



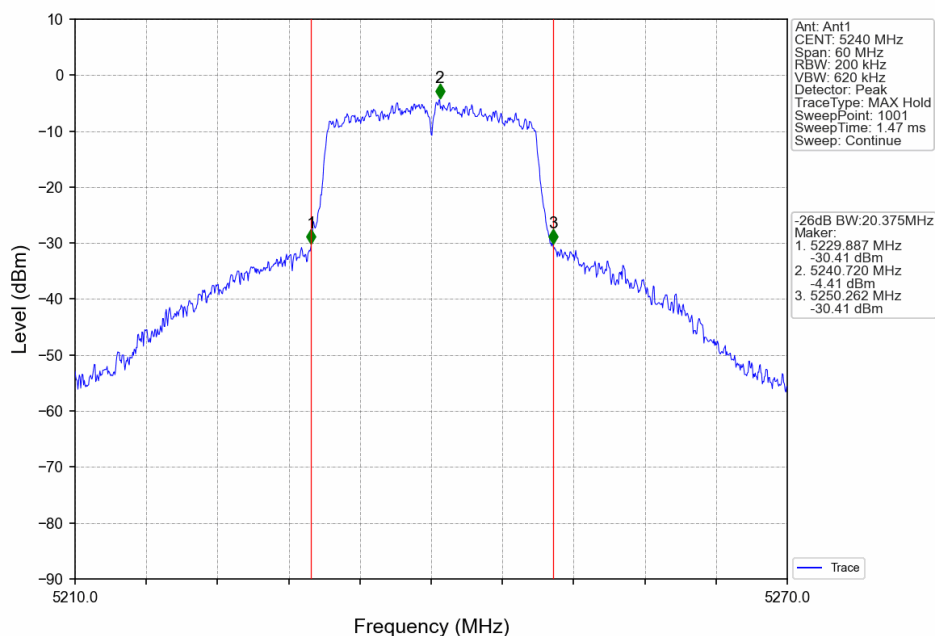
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



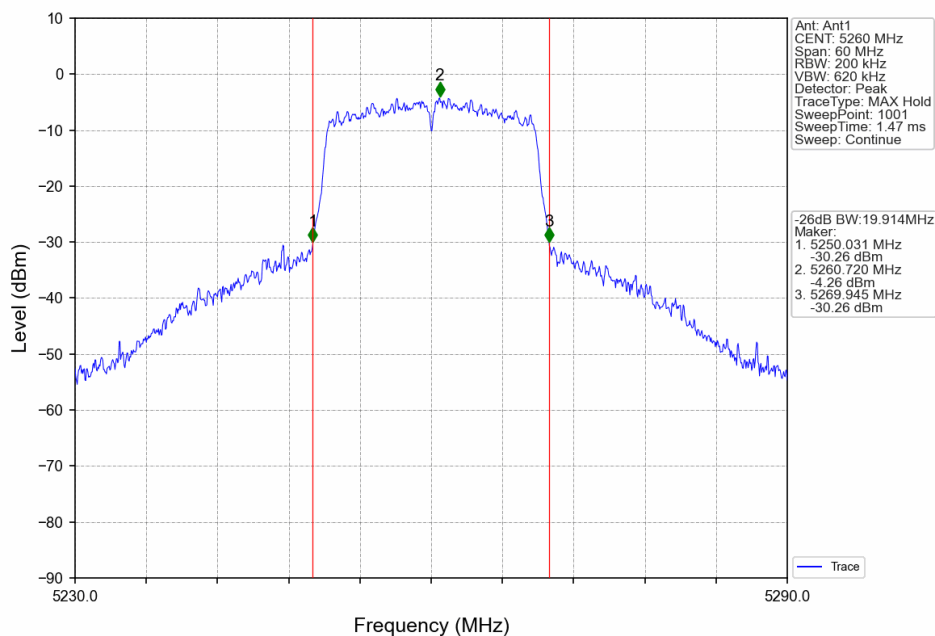
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



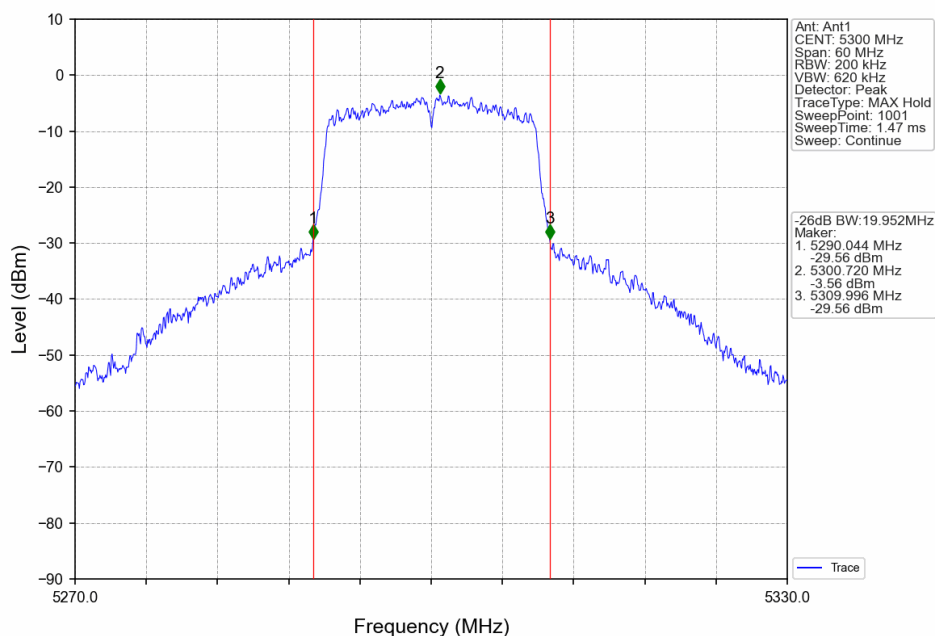
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



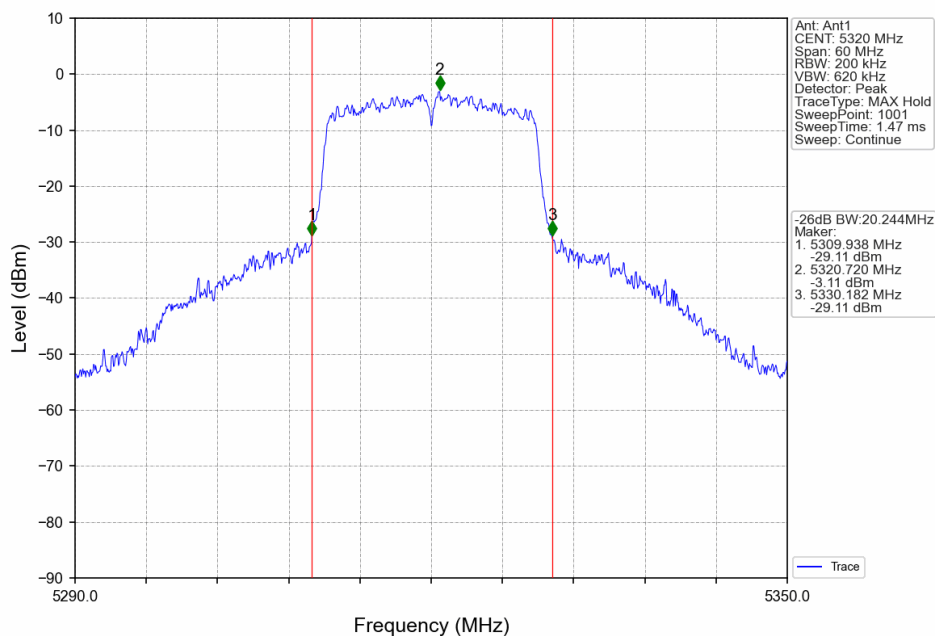
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



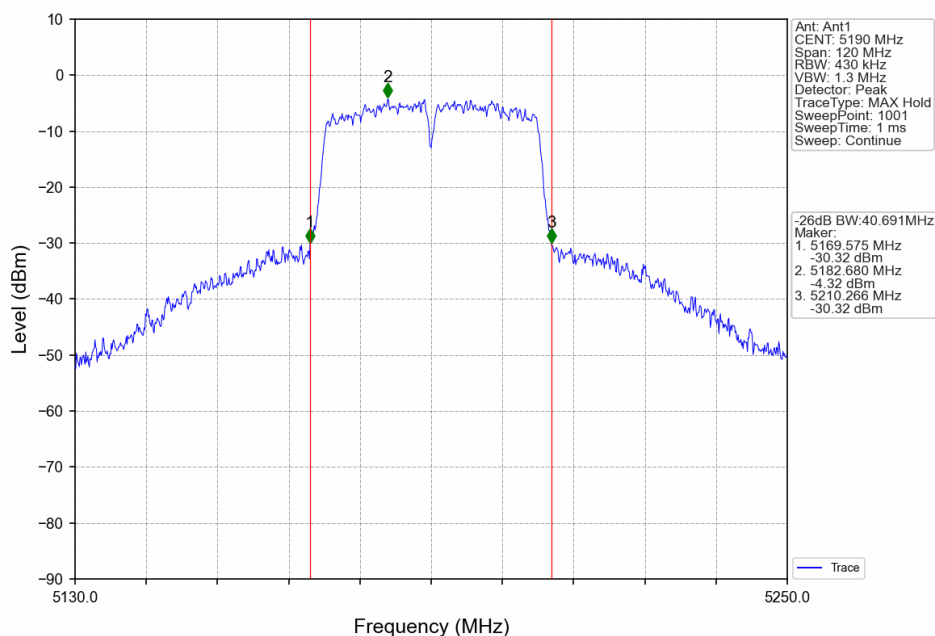
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



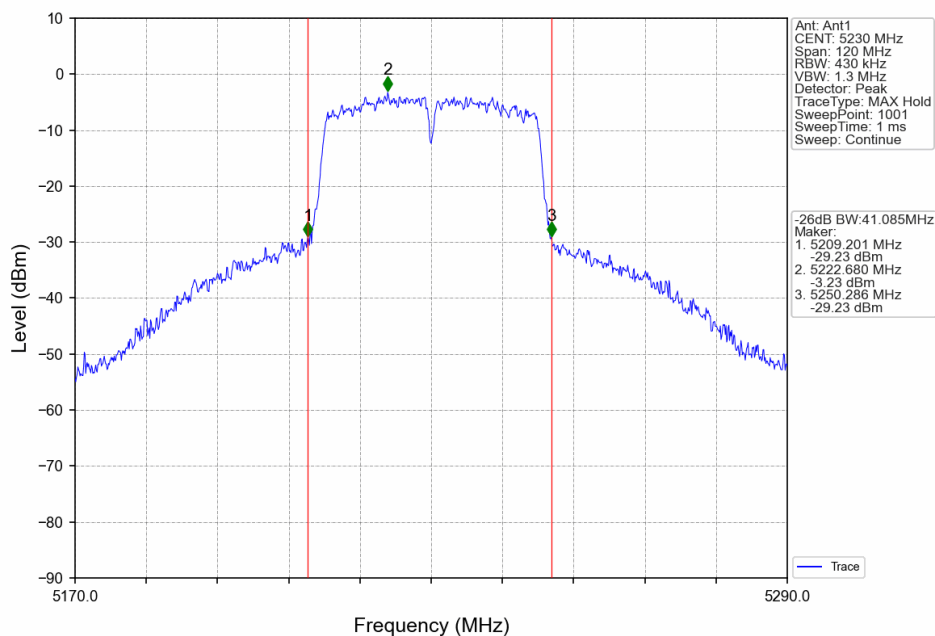
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



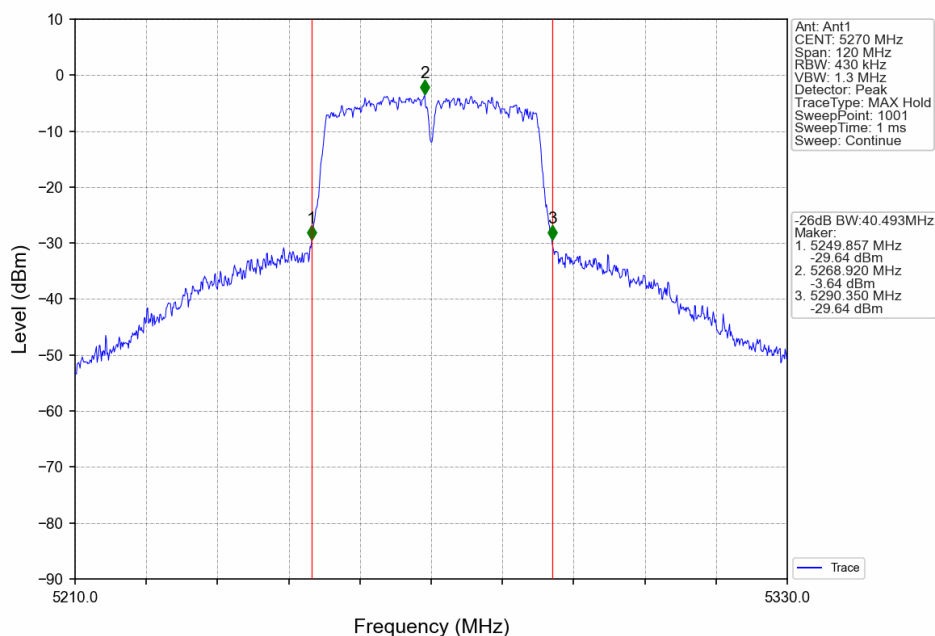
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



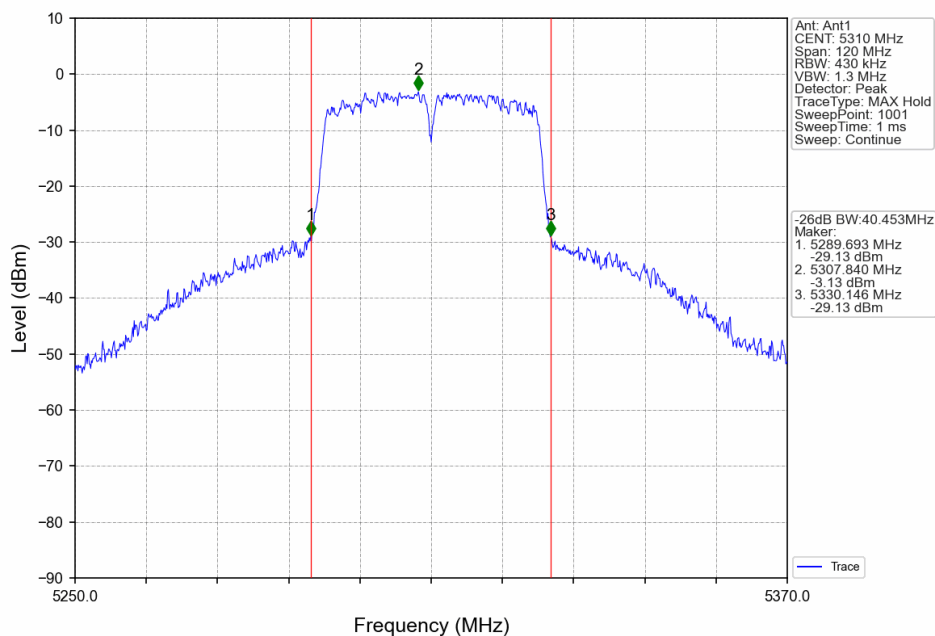
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



3. Maximum Conducted Output Power

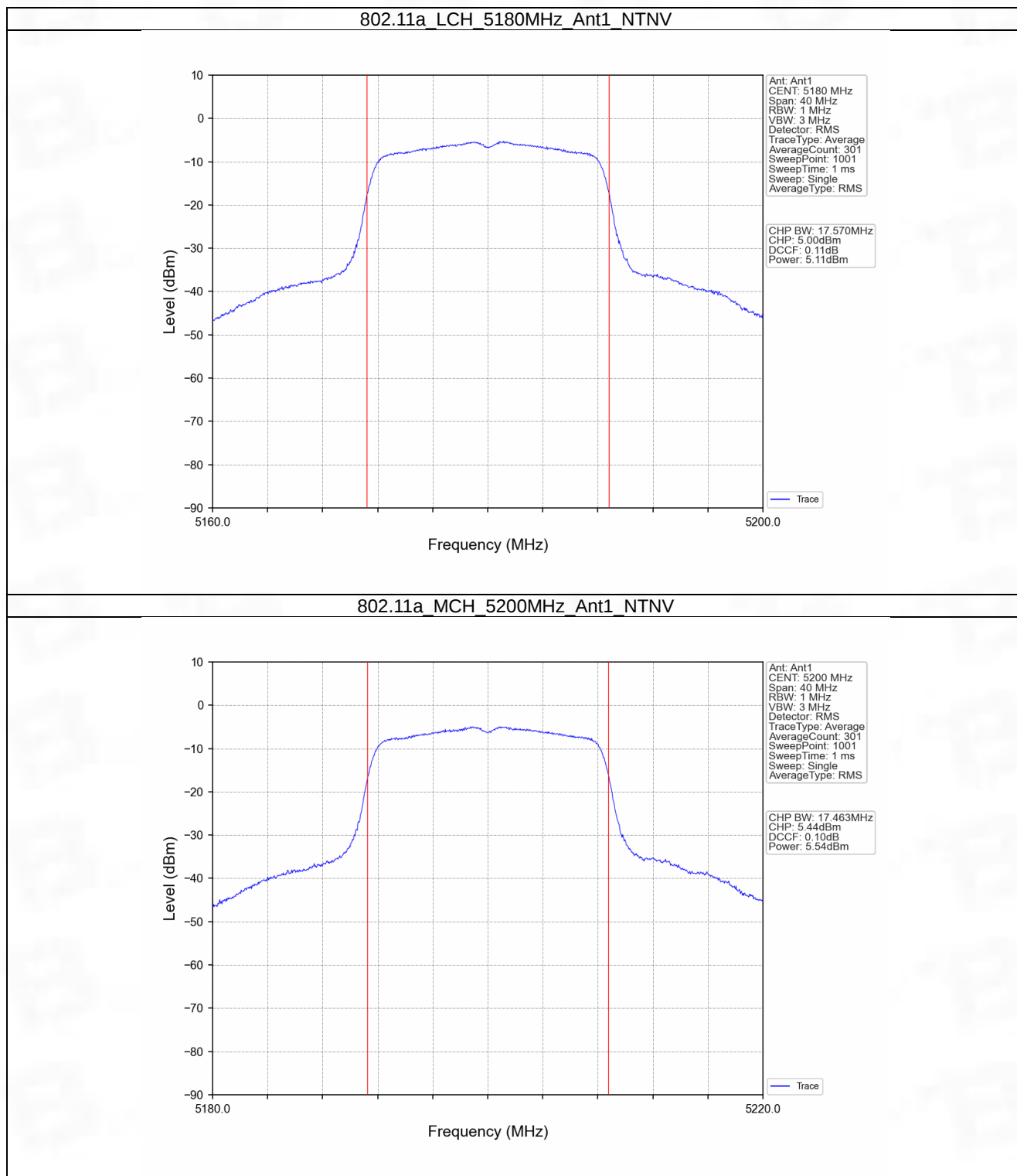
3.1 Power

3.1.1 Test Result

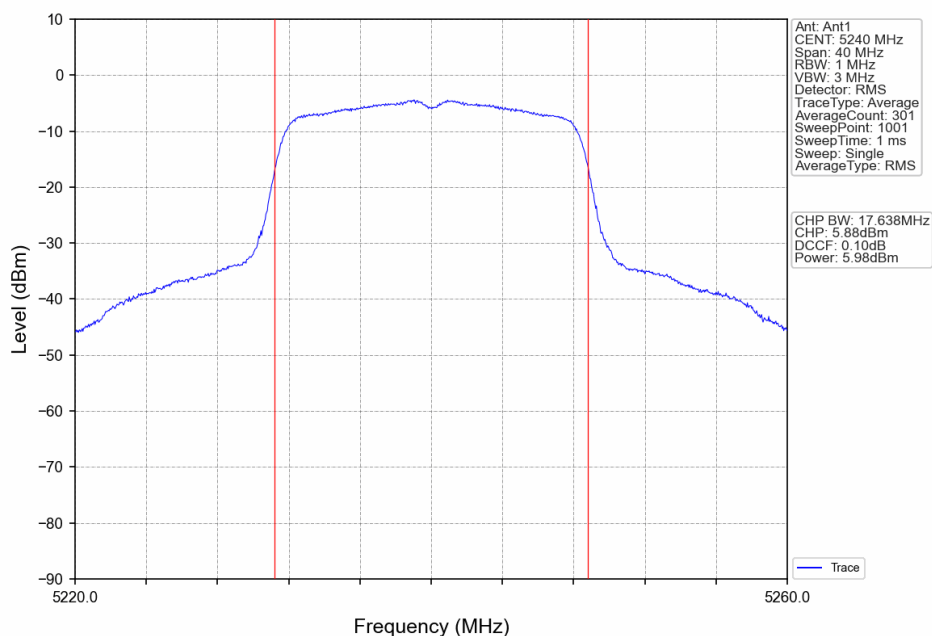
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	5.11	<=23.98	Pass
		5200	5.54	<=23.98	Pass
		5240	5.98	<=23.98	Pass
		5260	5.96	<=23.95	Pass
		5300	6.56	<=23.91	Pass
		5320	6.82	<=23.87	Pass
		5745	2.73	<=30	Pass
		5785	1.86	<=30	Pass
		5825	1.43	<=30	Pass
		5180	5.13	<=23.98	Pass
		5200	5.69	<=23.98	Pass
		5240	5.68	<=23.98	Pass
		5260	5.94	<=23.98	Pass
		5300	6.62	<=23.98	Pass
		5320	6.97	<=23.98	Pass
		5745	2.47	<=30	Pass
802.11n (HT40)	SISO	5785	1.86	<=30	Pass
		5825	1.53	<=30	Pass
		5190	5.85	<=23.98	Pass
		5230	6.49	<=23.98	Pass
		5270	6.72	<=23.98	Pass
		5310	7.34	<=23.98	Pass
		5755	2.99	<=30	Pass
		5795	1.94	<=30	Pass
Note1: Antenna Gain: Ant1: 1.09dBi;					

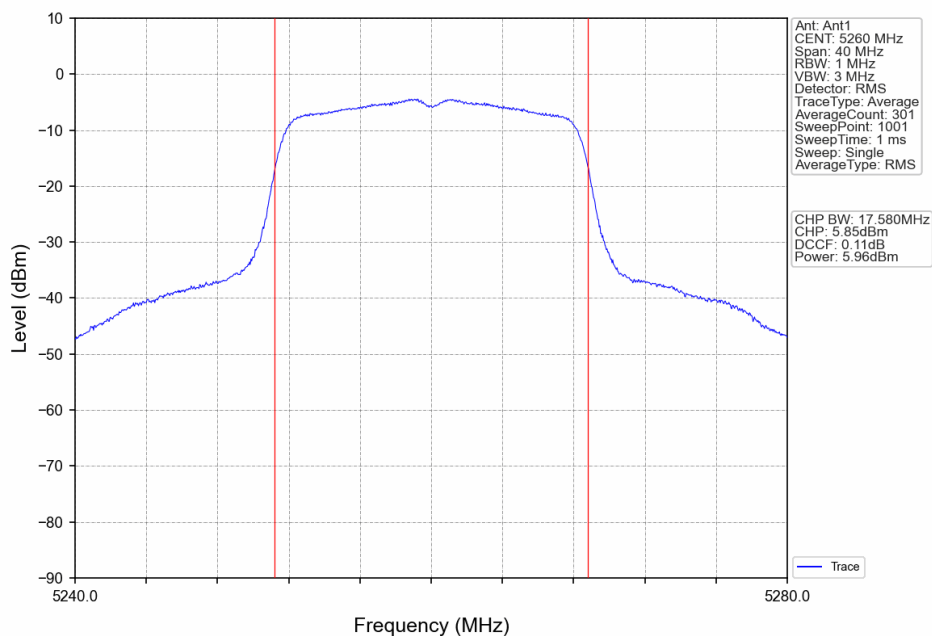
3.1.2 Test Graph



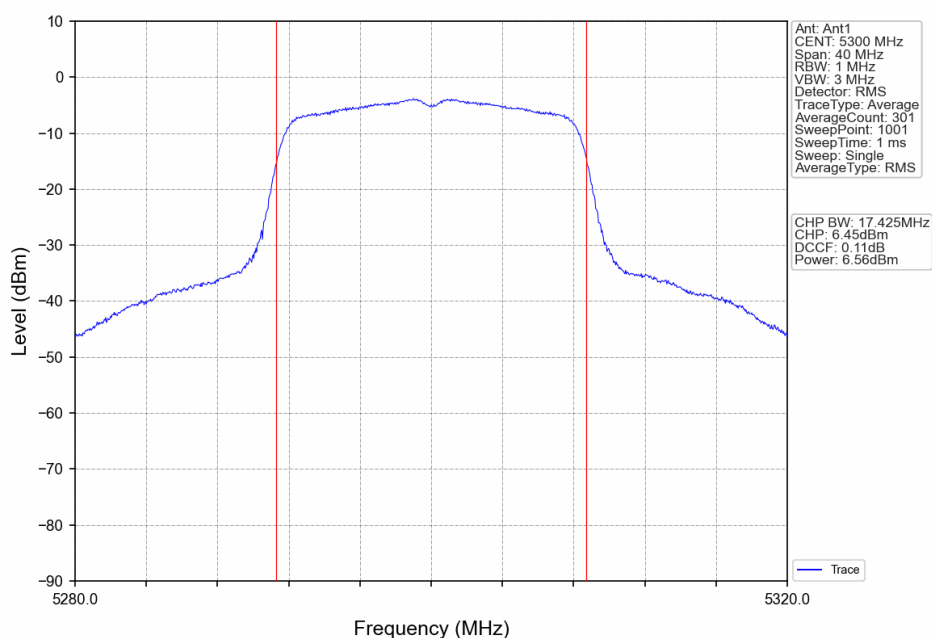
802.11a_HCH_5240MHz_Ant1_NTNV



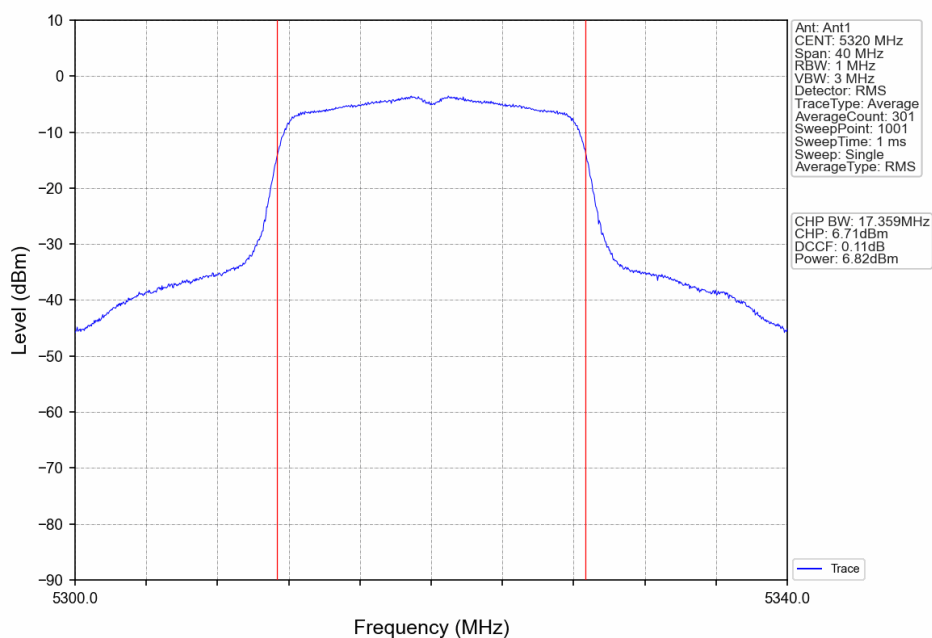
802.11a_LCH_5260MHz_Ant1_NTNV



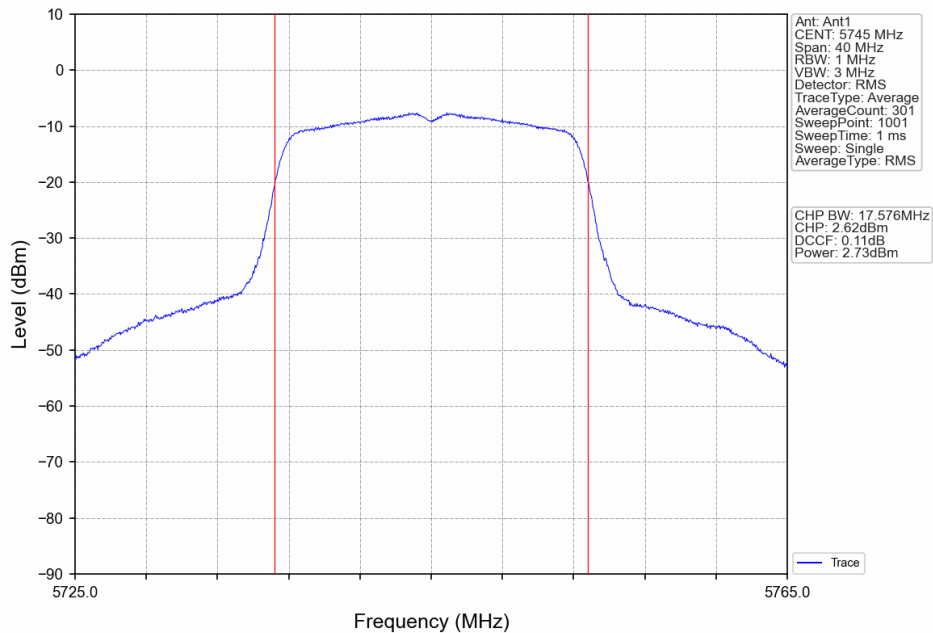
802.11a_MCH_5300MHz_Ant1_NTNV



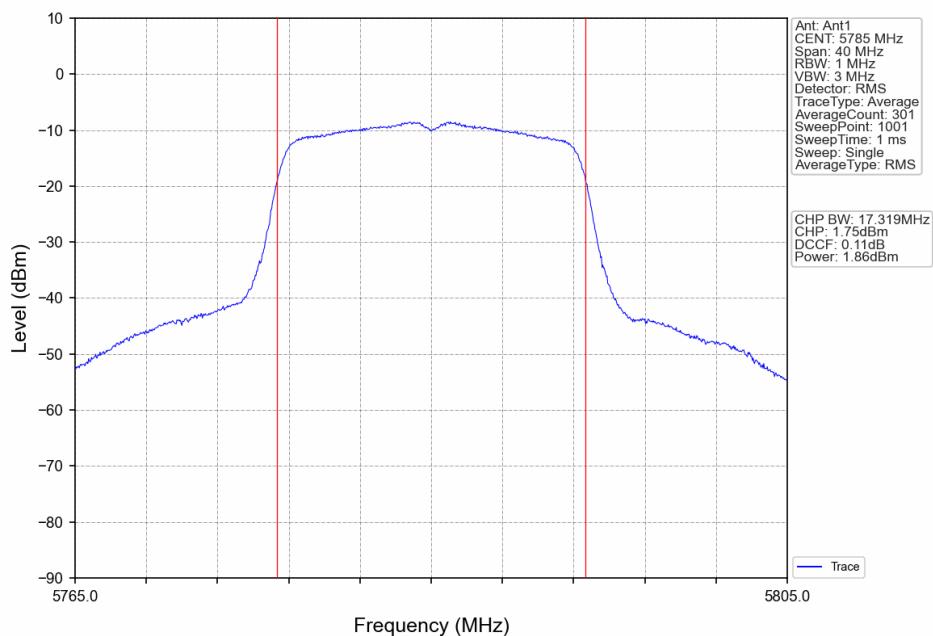
802.11a_HCH_5320MHz_Ant1_NTNV



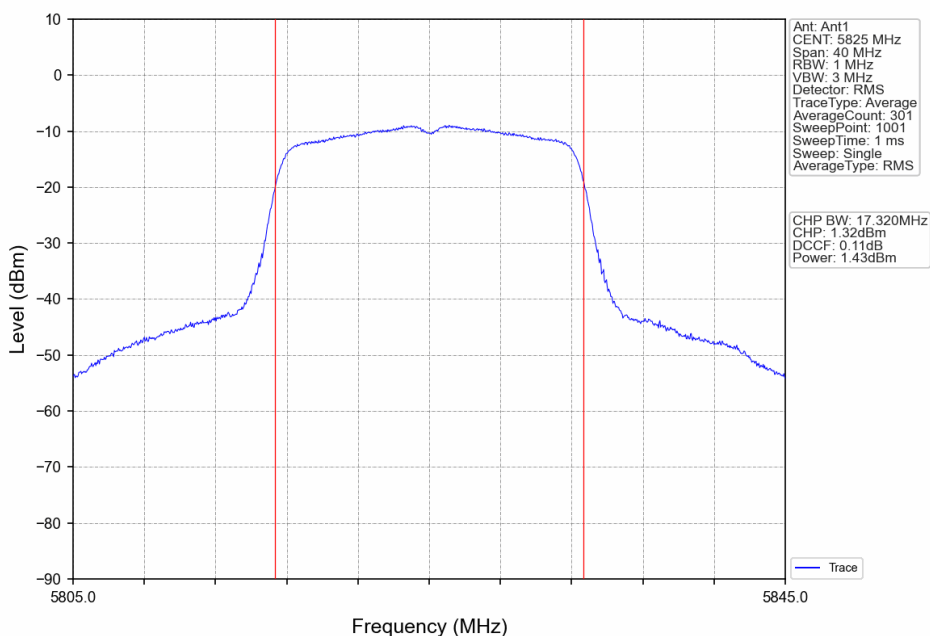
802.11a_LCH_5745MHz_Ant1_NTNV



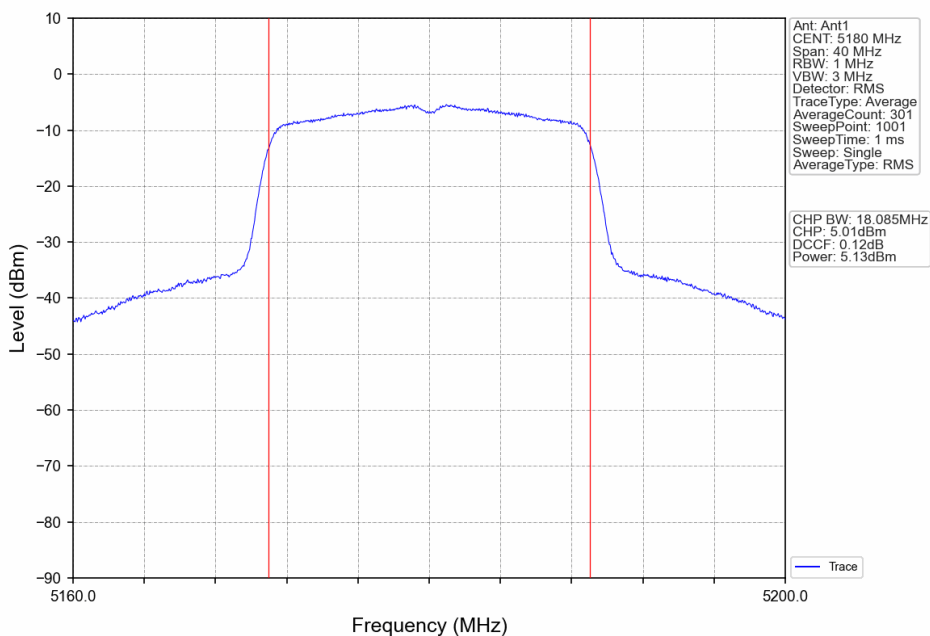
802.11a_MCH_5785MHz_Ant1_NTNV



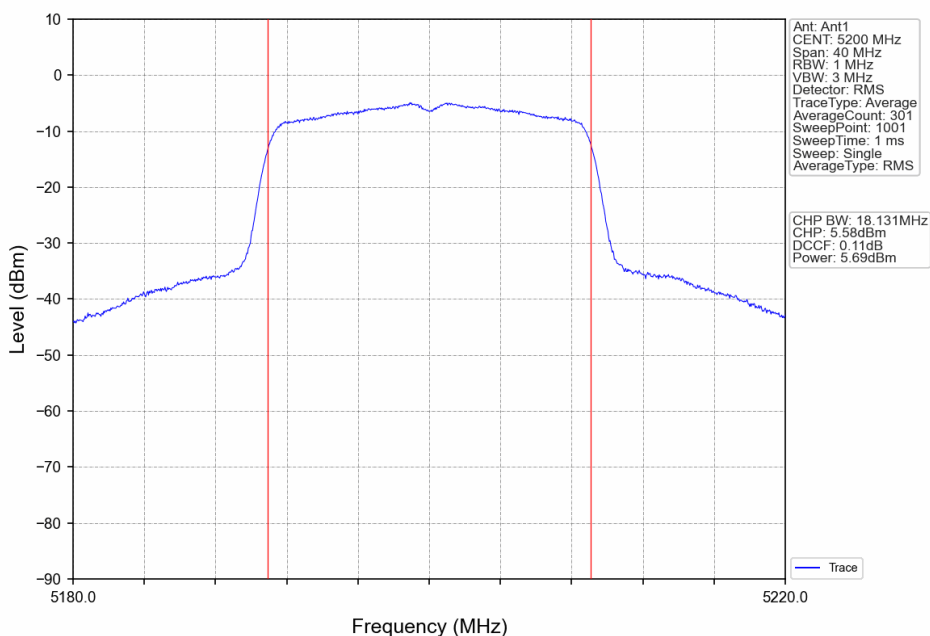
802.11a_HCH_5825MHz_Ant1_NTNV



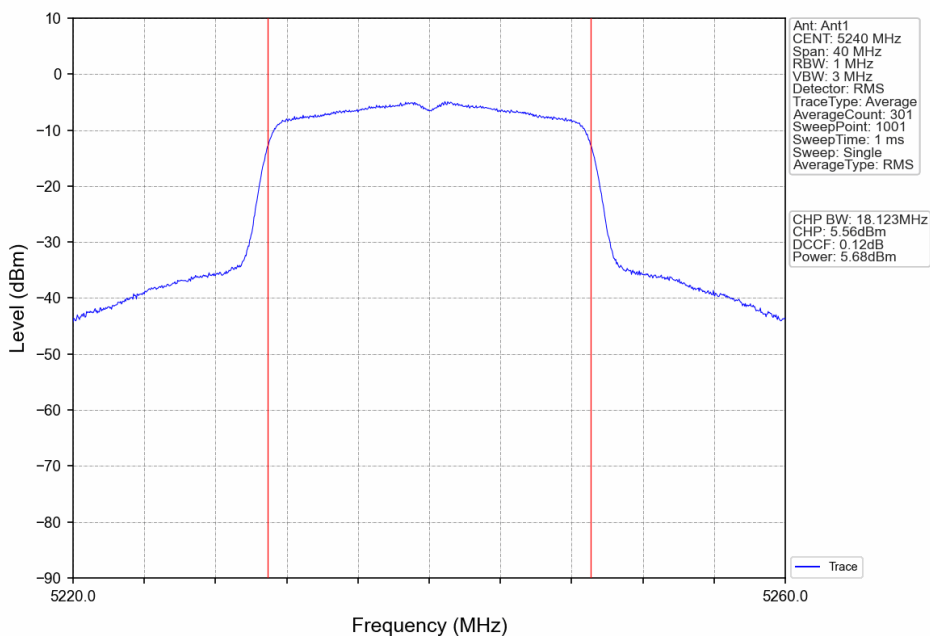
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



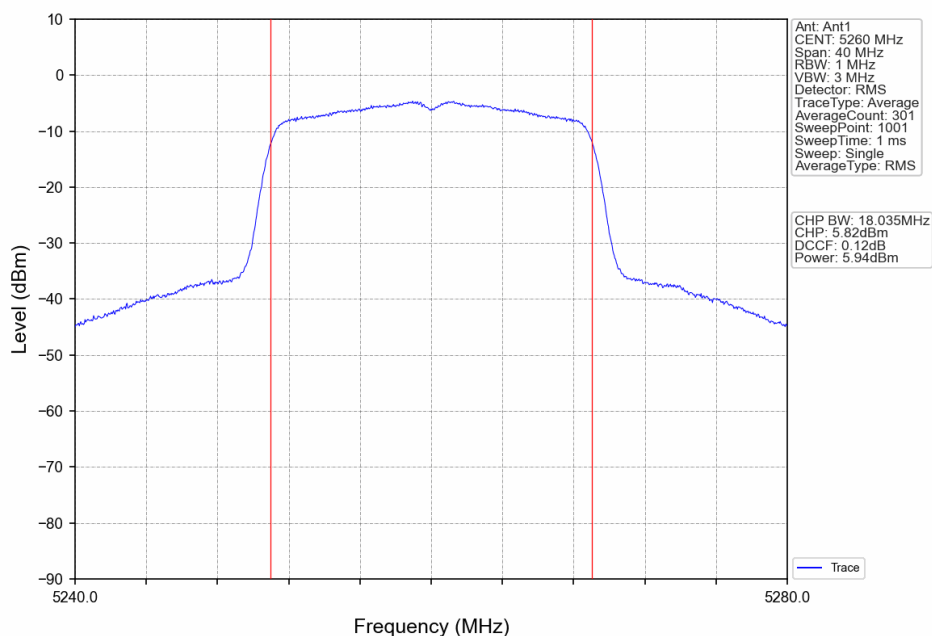
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



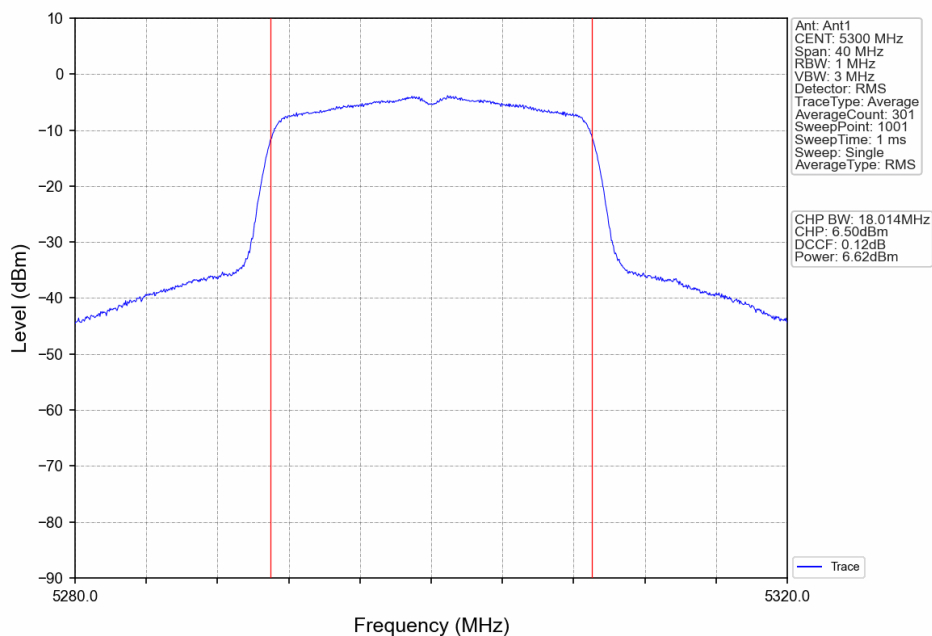
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



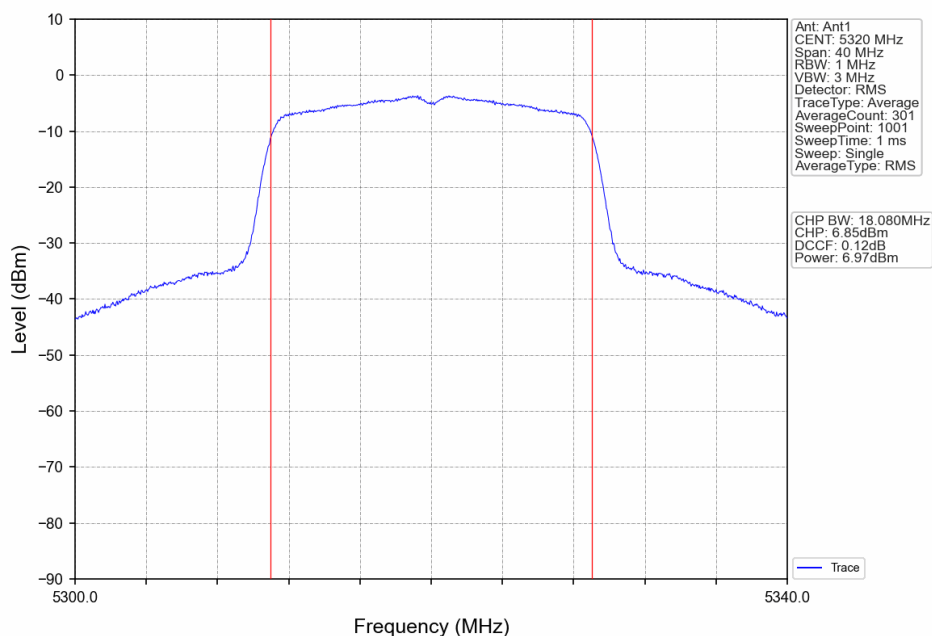
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



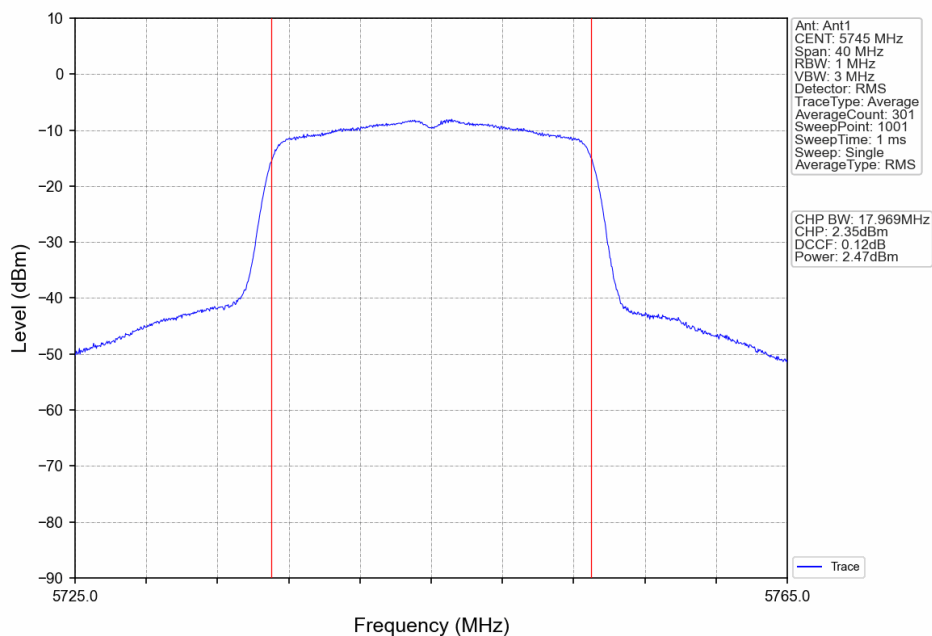
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



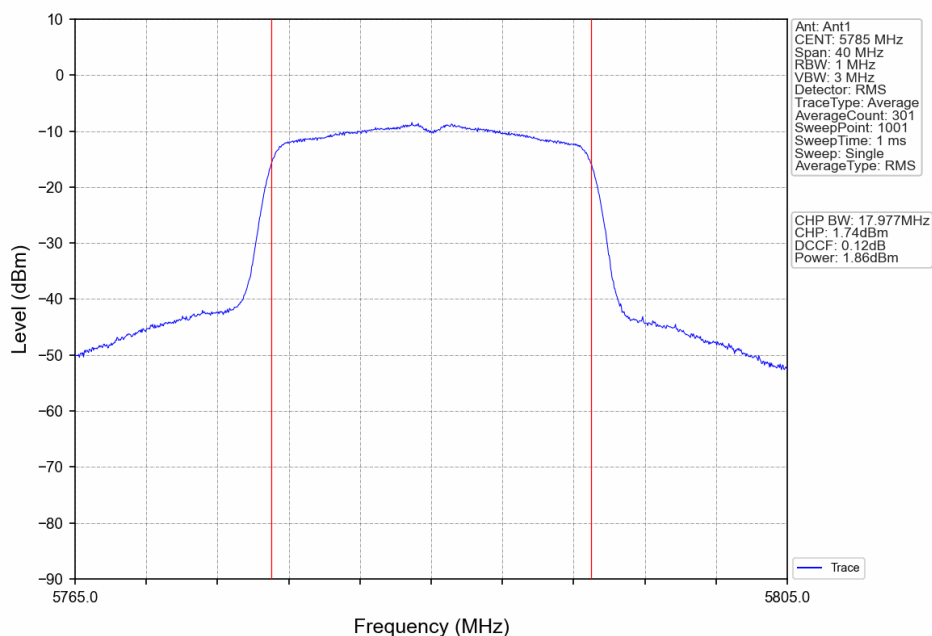
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



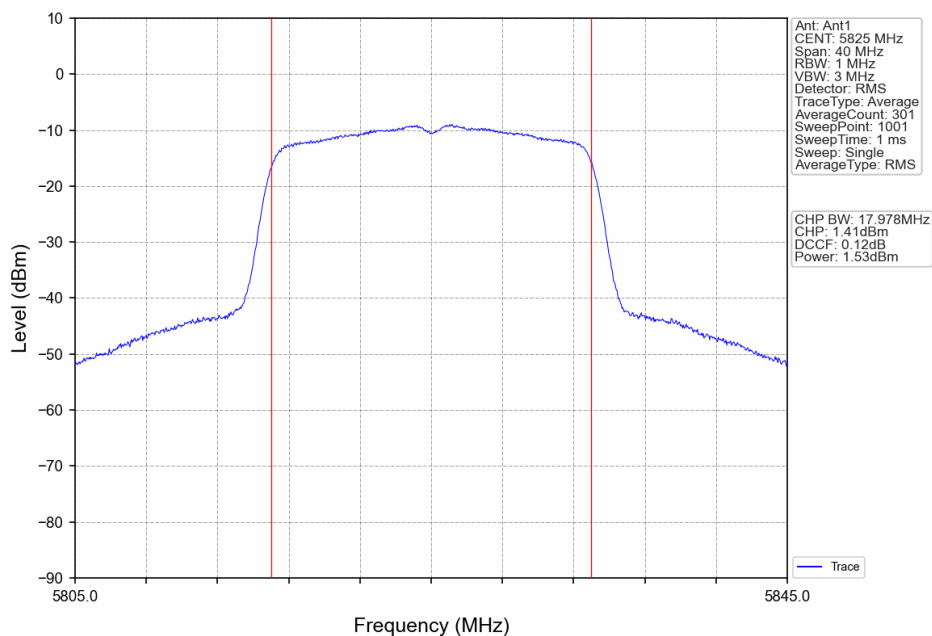
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



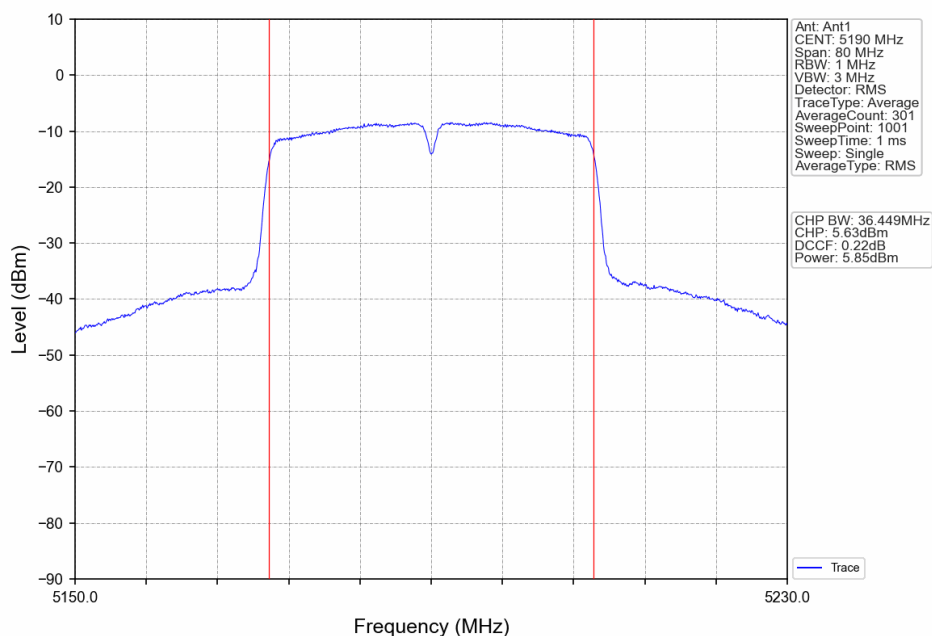
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



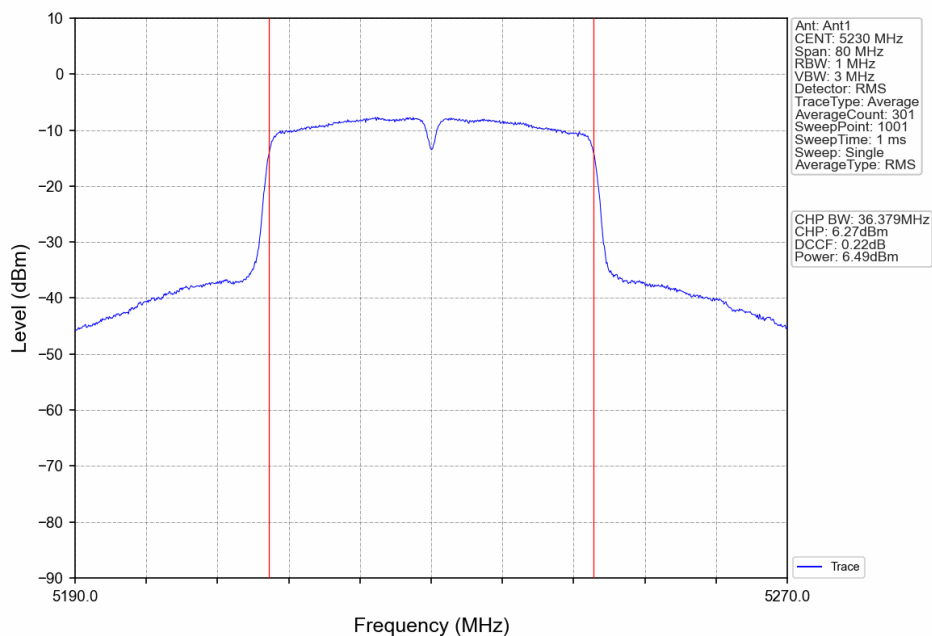
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



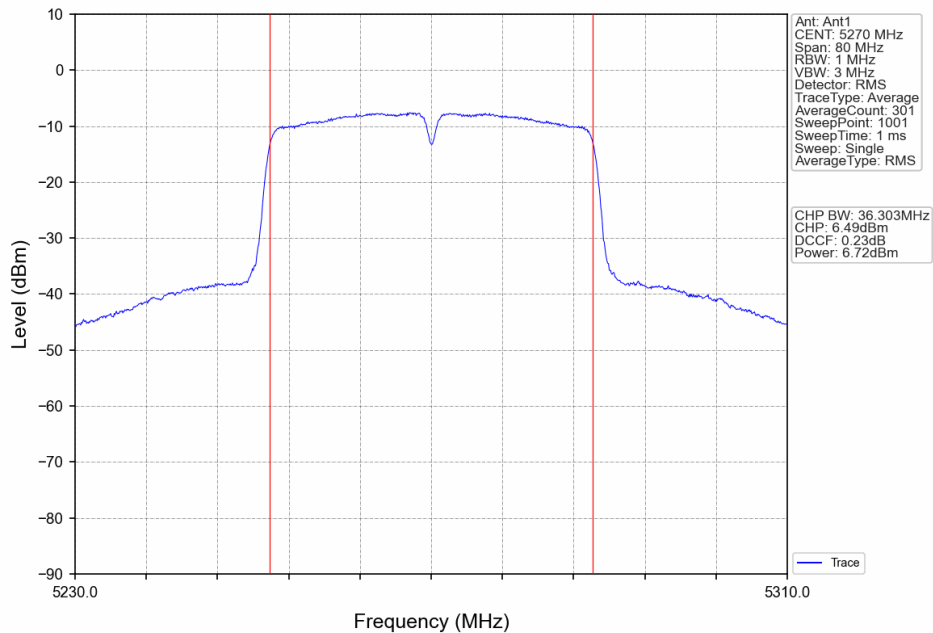
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



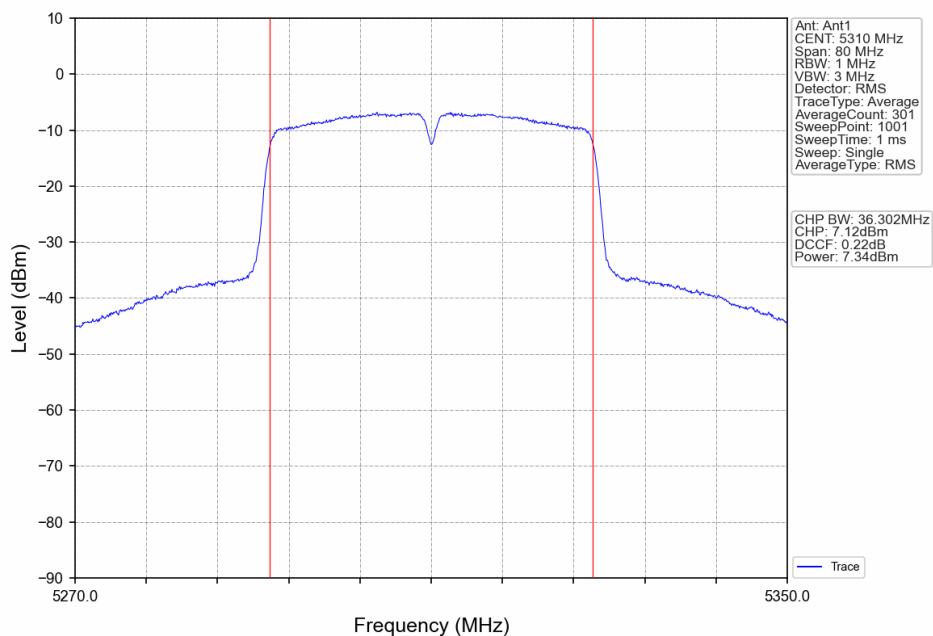
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



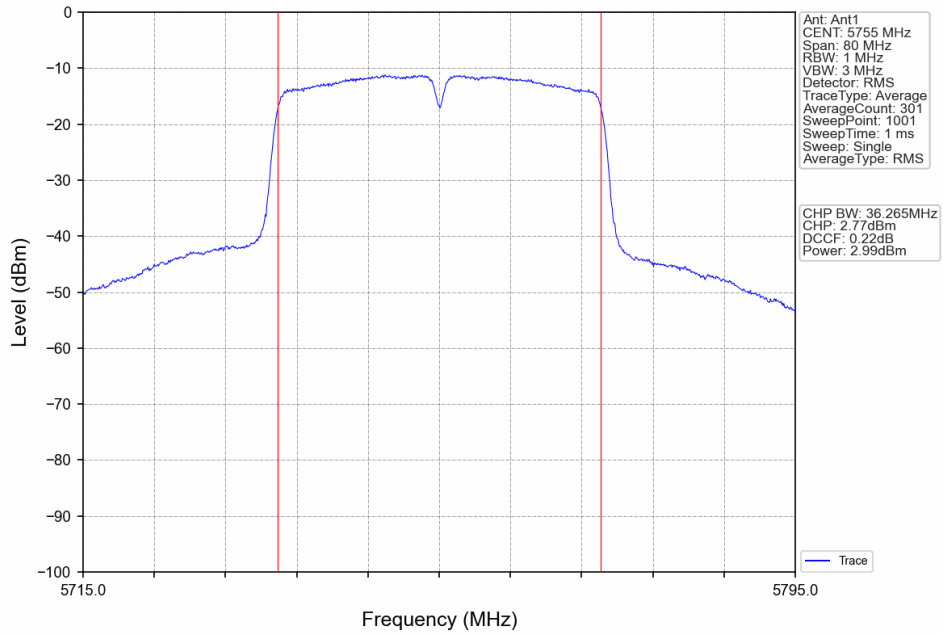
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



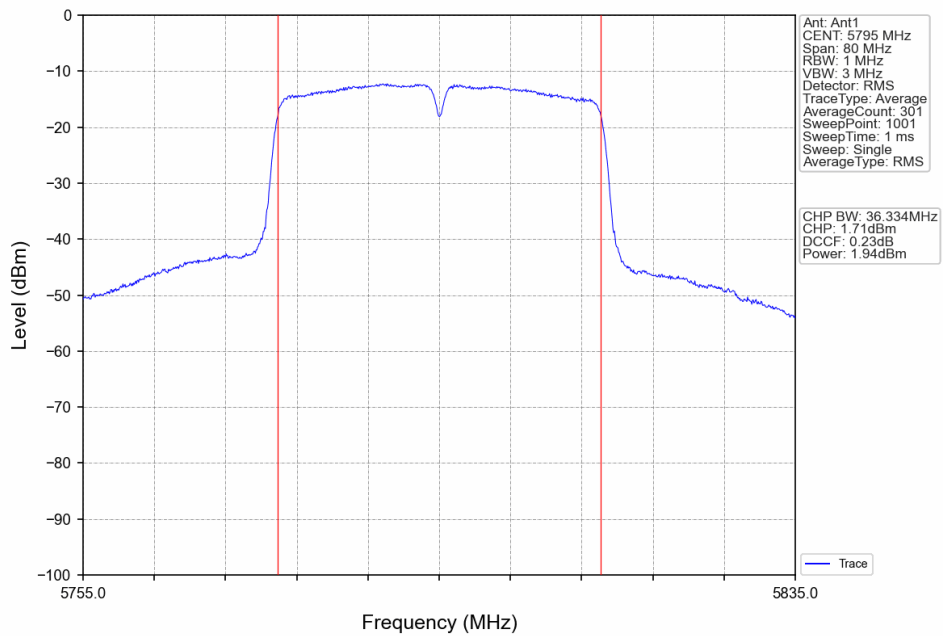
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



4. Maximum Power Spectral Density

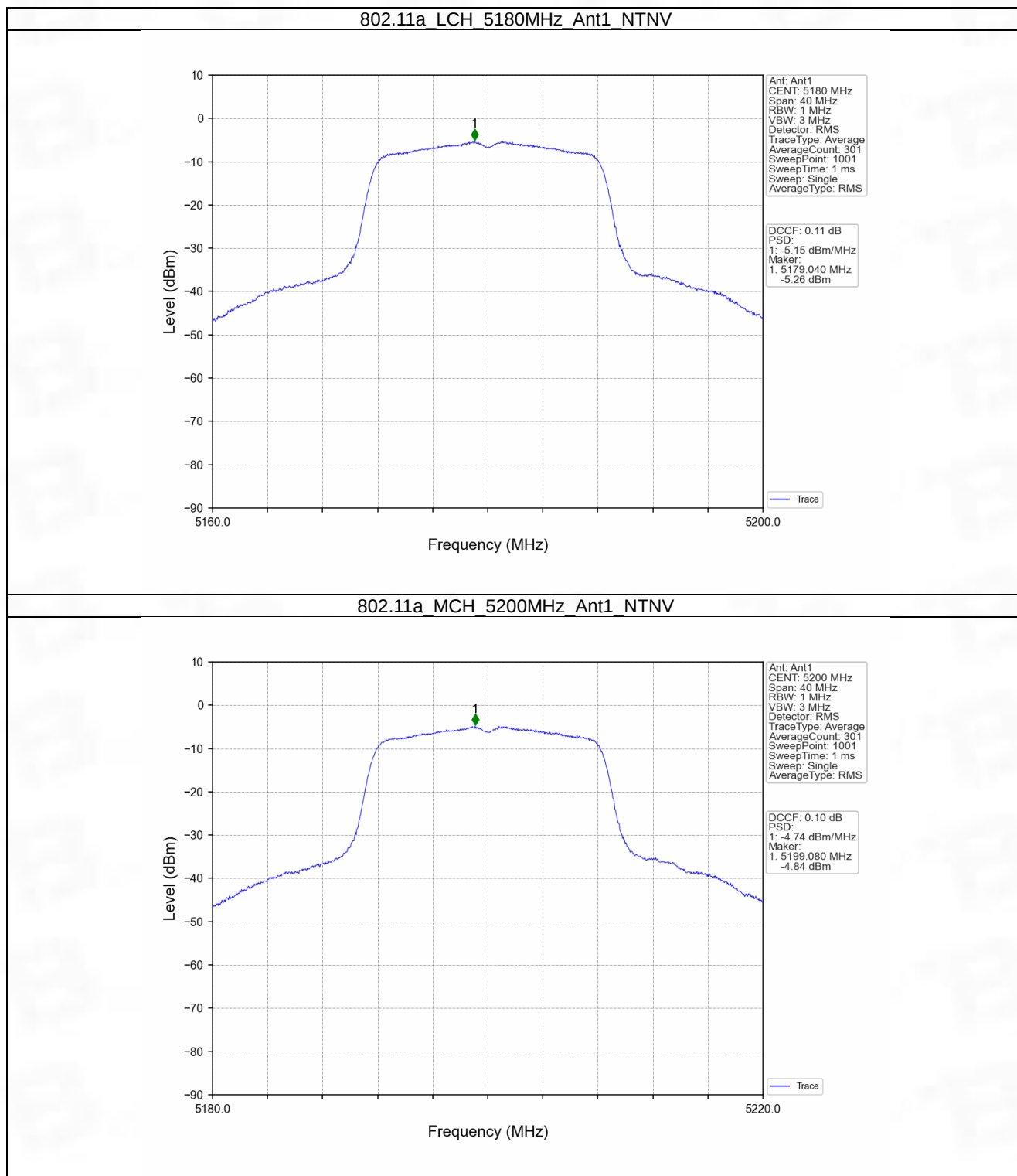
4.1 PSD

4.1.1 Test Result

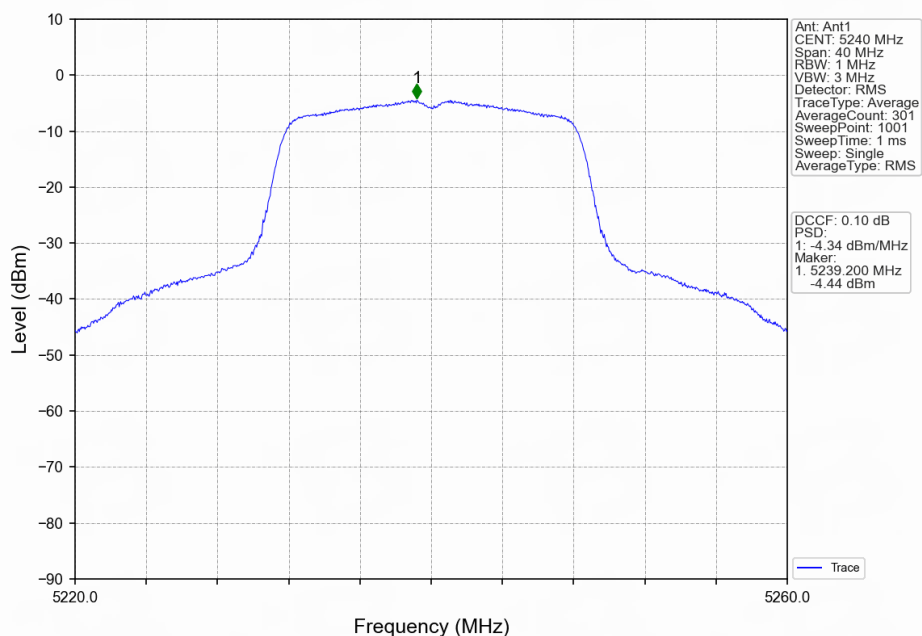
7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-5.15	<=11	Pass
		5200	-4.74	<=11	Pass
		5240	-4.34	<=11	Pass
		5260	-4.25	<=11	Pass
		5300	-3.72	<=11	Pass
		5320	-3.44	<=11	Pass
802.11n (HT20)	SISO	5180	-5.34	<=11	Pass
		5200	-4.73	<=11	Pass
		5240	-4.76	<=11	Pass
		5260	-4.51	<=11	Pass
		5300	-3.84	<=11	Pass
		5320	-3.53	<=11	Pass
802.11n (HT40)	SISO	5190	-8.10	<=11	Pass
		5230	-7.44	<=11	Pass
		5270	-7.31	<=11	Pass
		5310	-6.68	<=11	Pass
Note1: Antenna Gain: Ant1: 1.09dBi;					

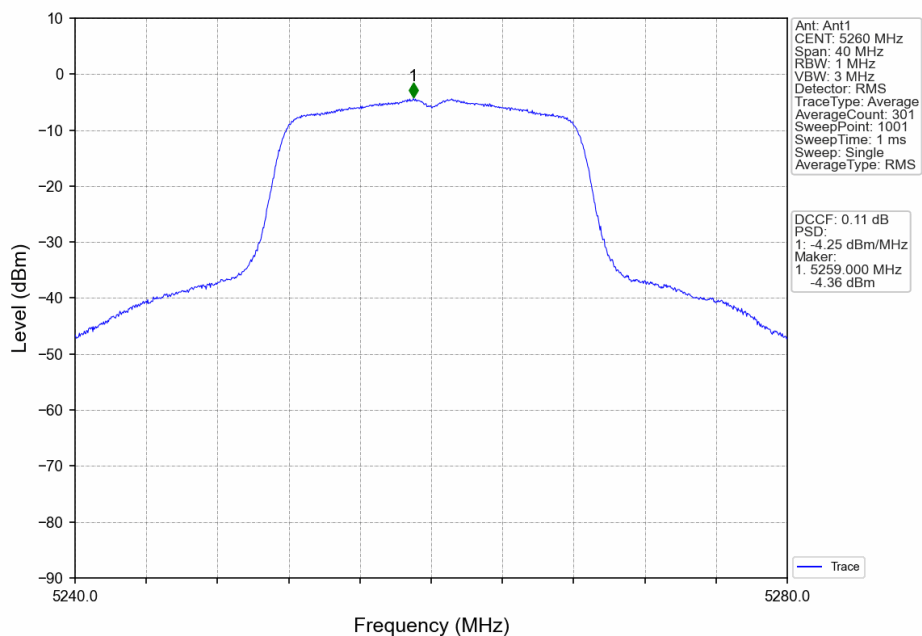
4.1.2 Test Graph



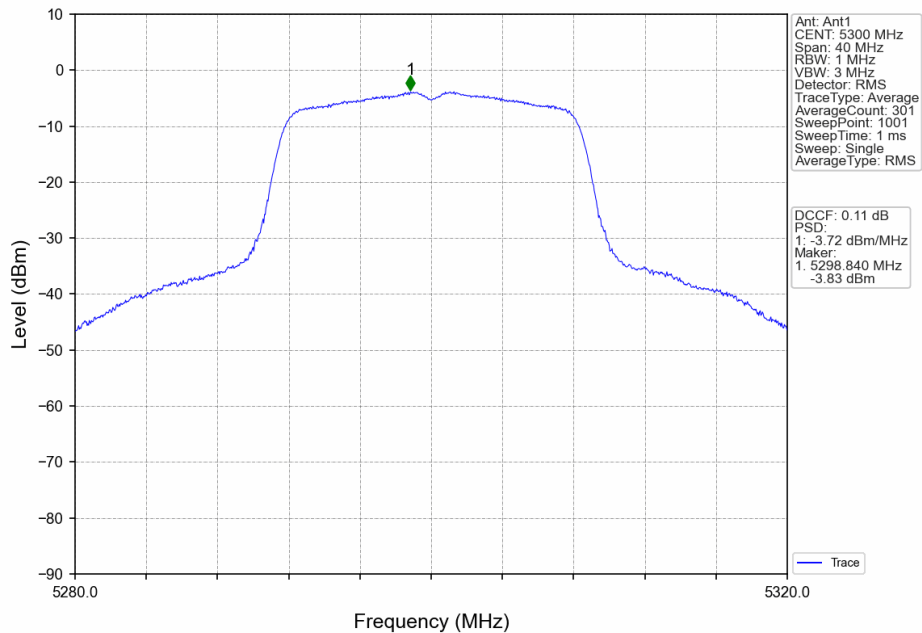
802.11a_HCH_5240MHz_Ant1_NTNV



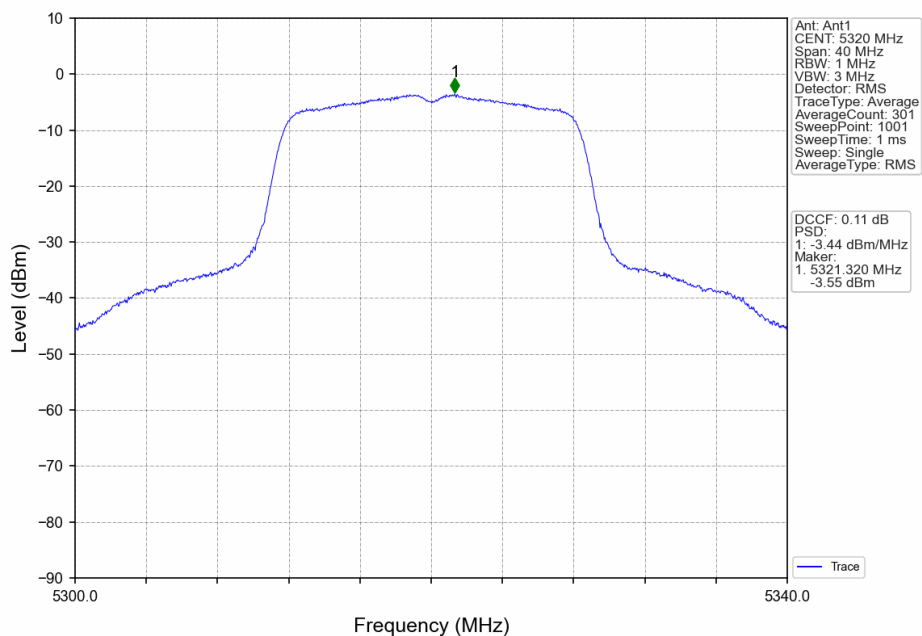
802.11a_LCH_5260MHz_Ant1_NTNV



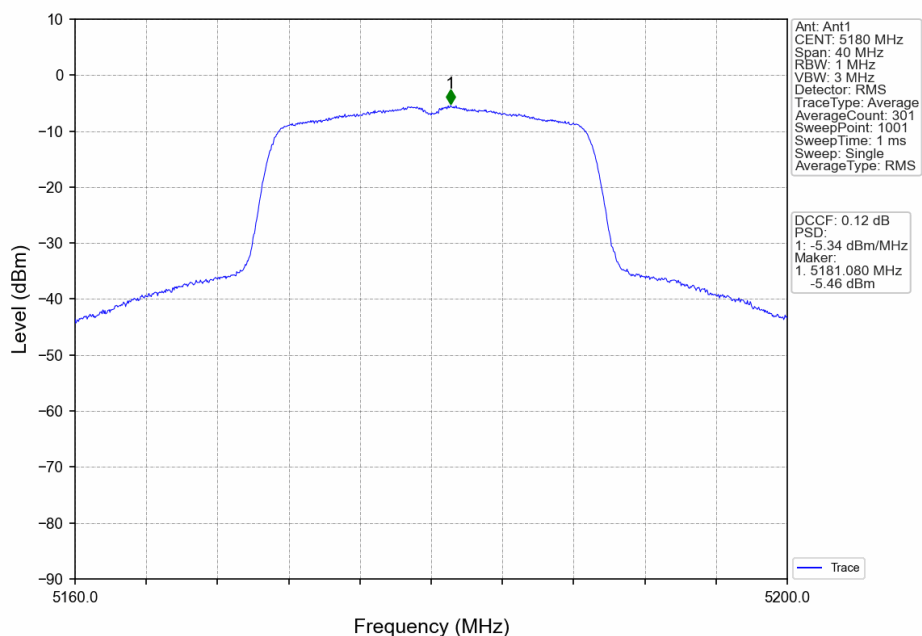
802.11a_MCH_5300MHz_Ant1_NTNV



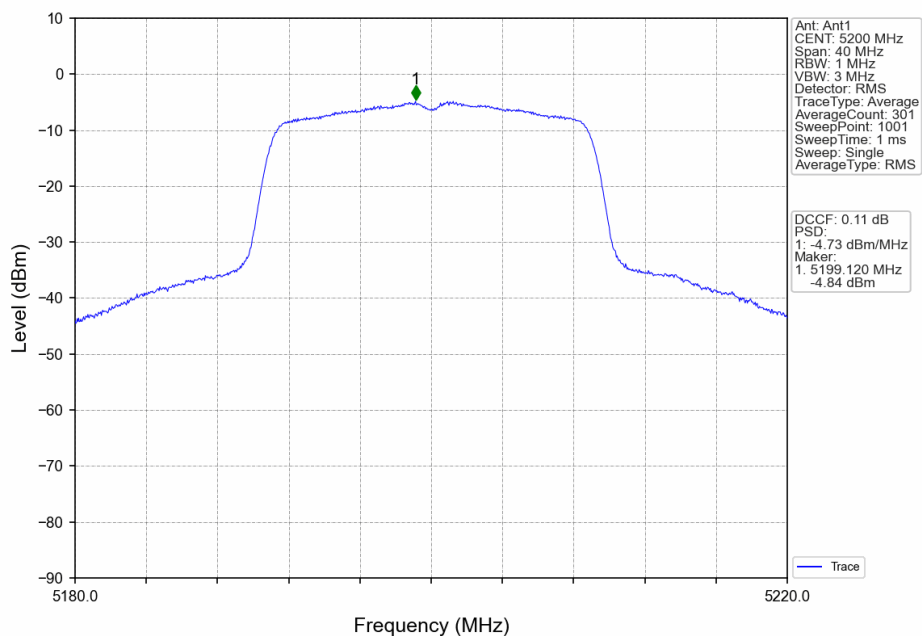
802.11a_HCH_5320MHz_Ant1_NTNV



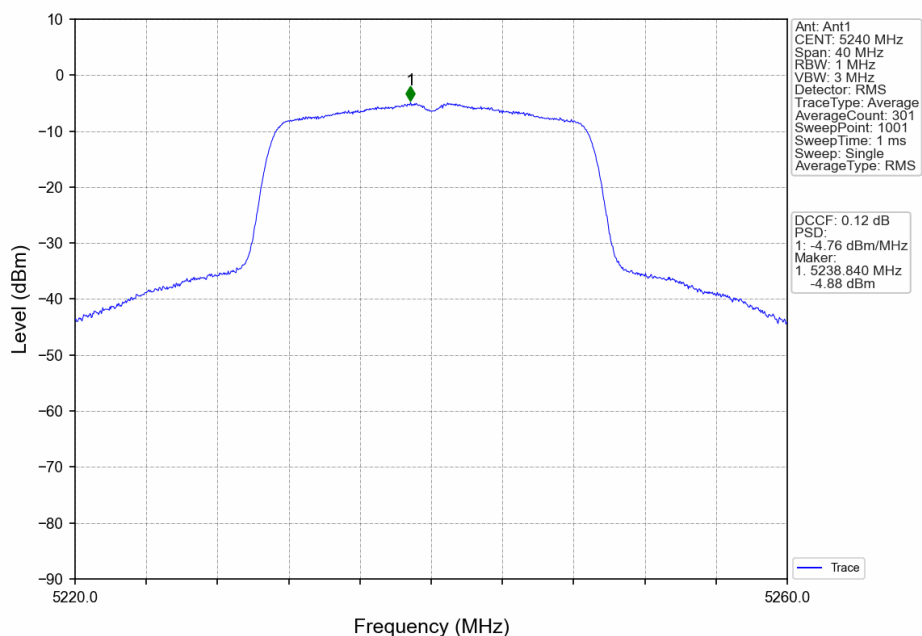
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



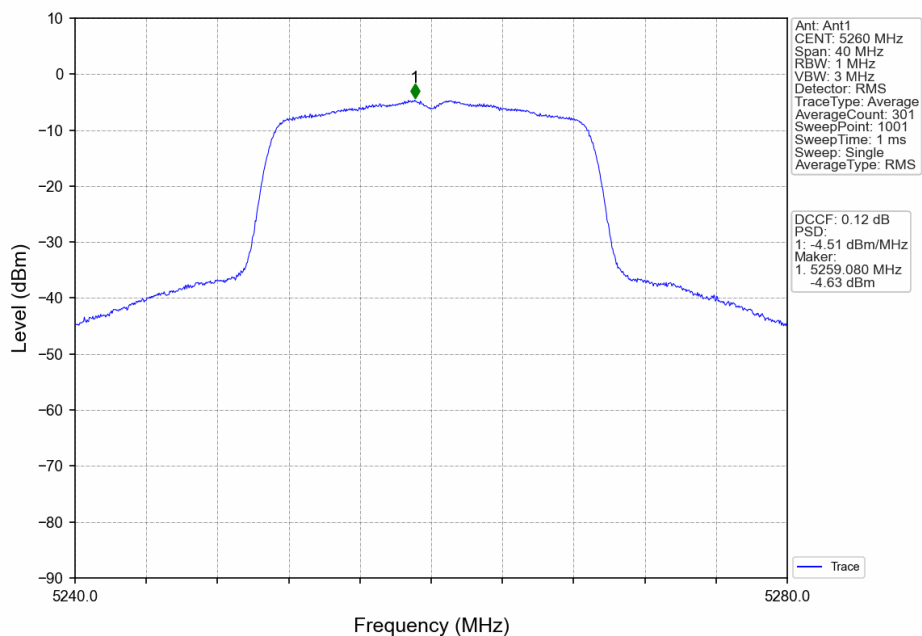
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



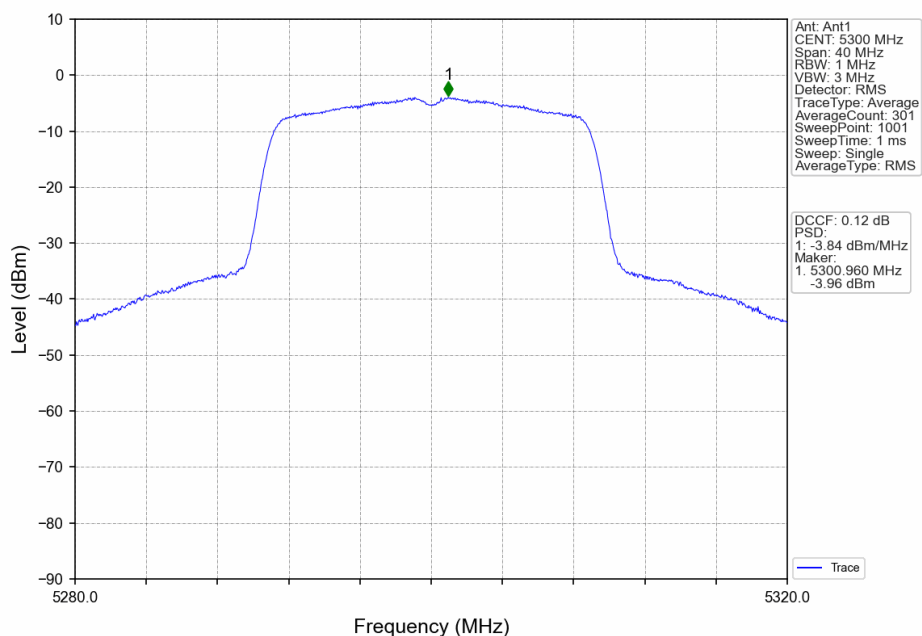
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



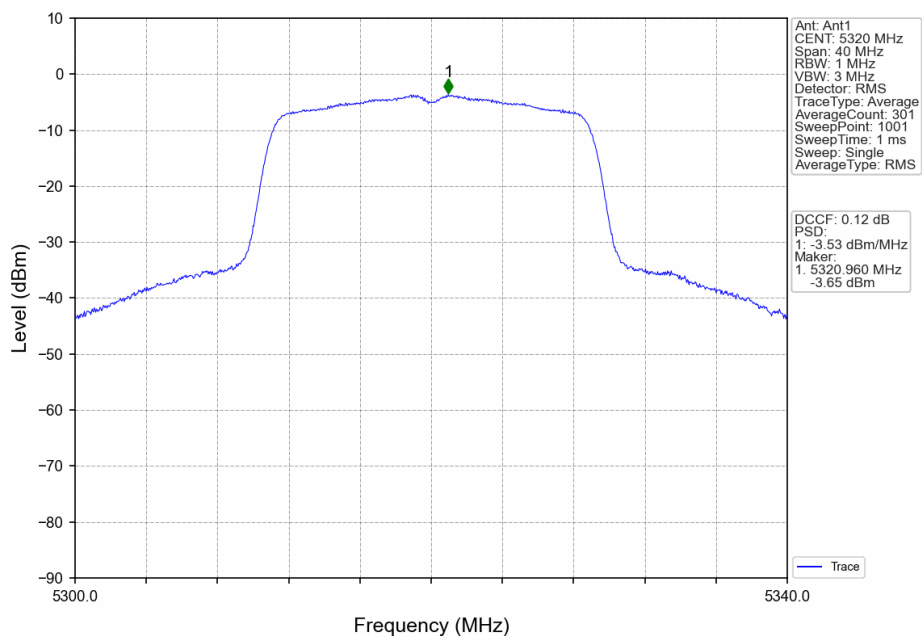
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



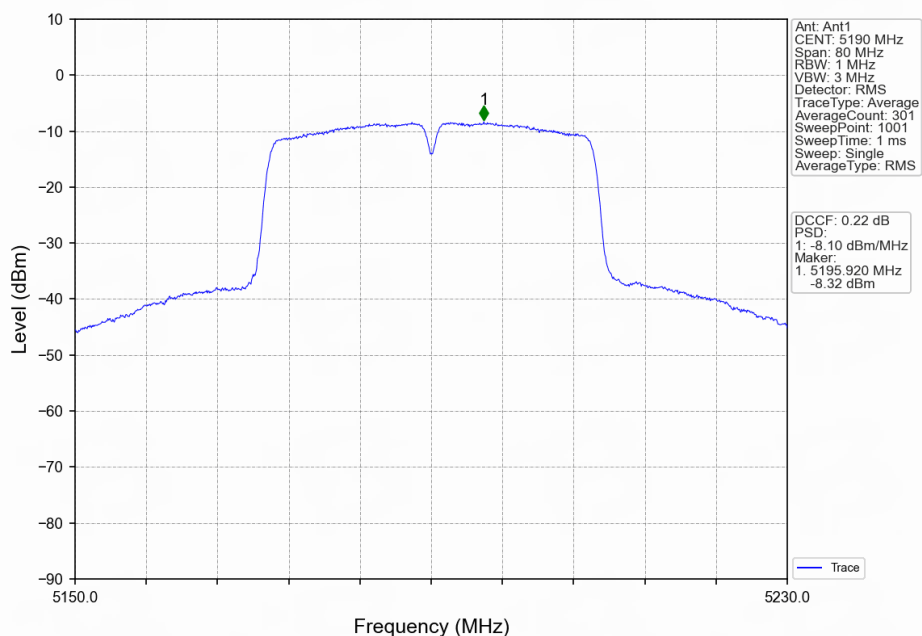
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



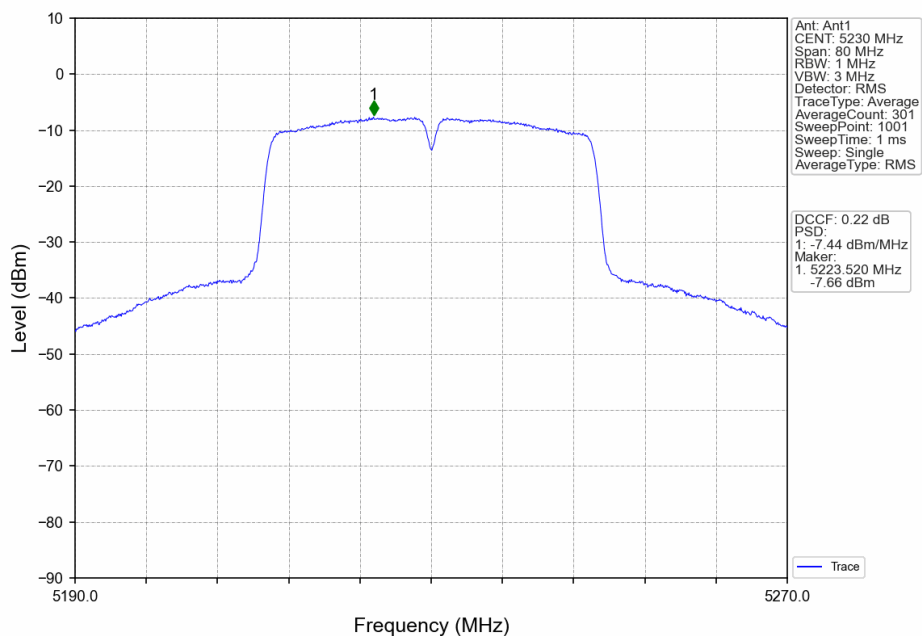
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



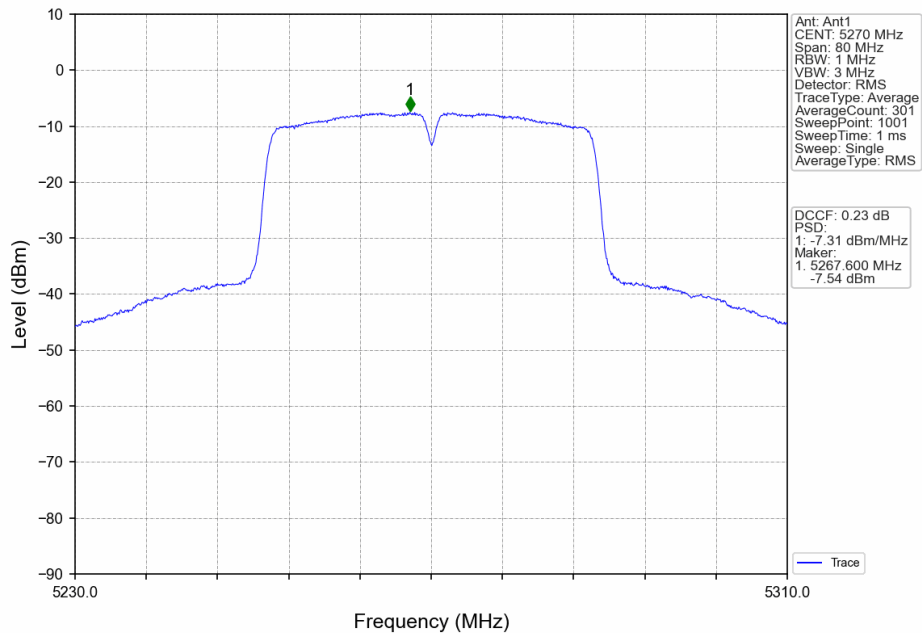
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



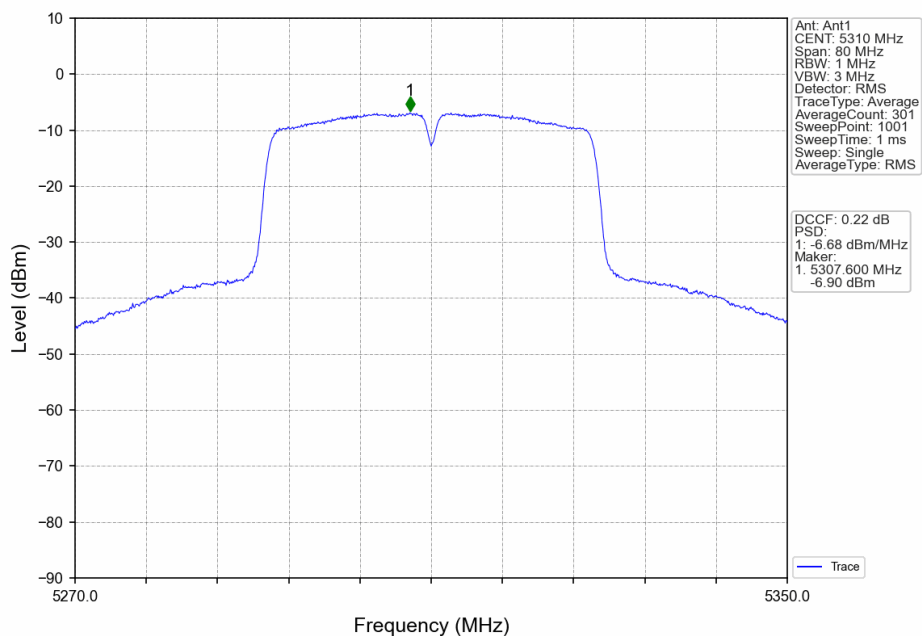
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



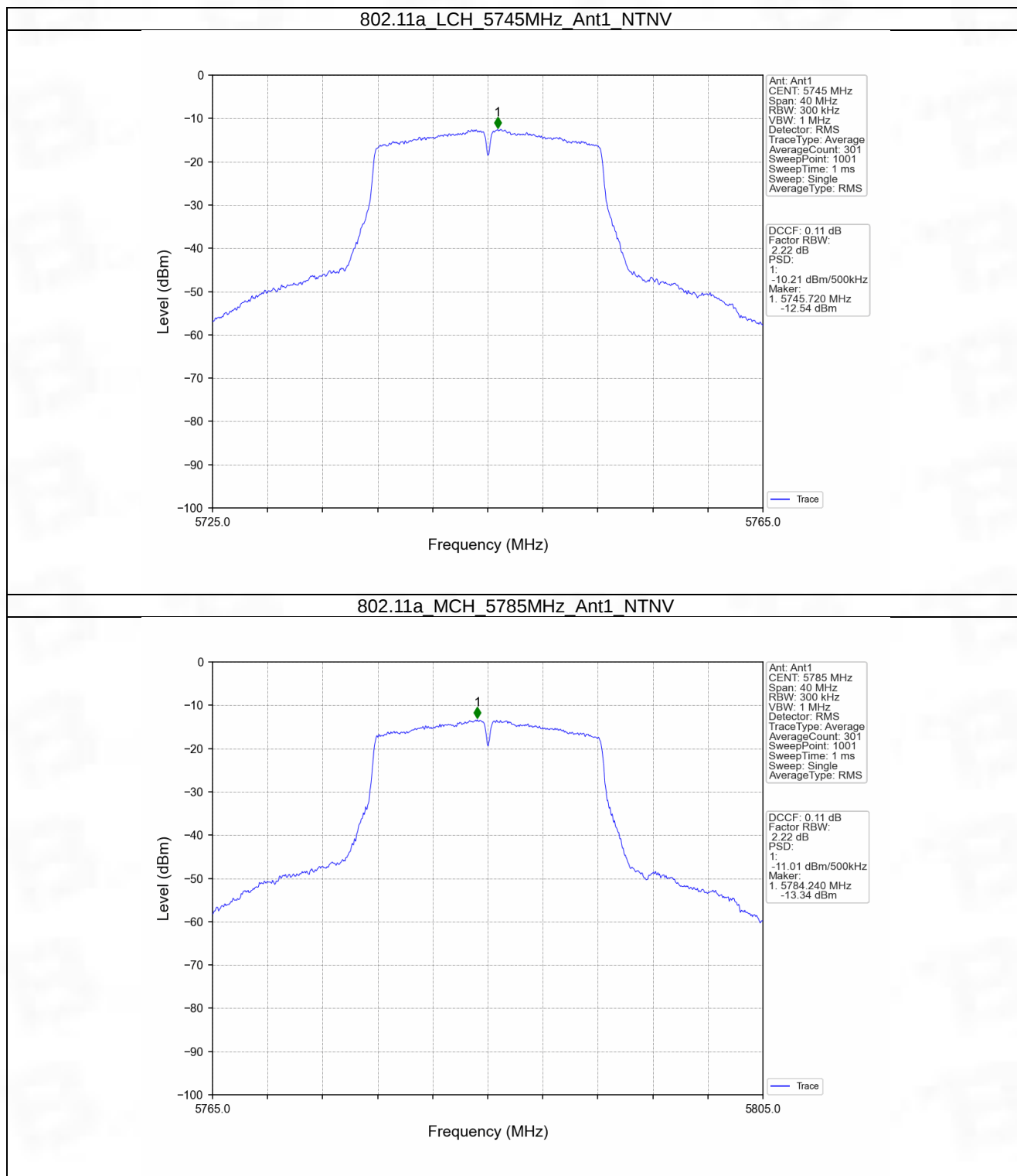
4.2 PSD-Band3

4.2.1 Test Result

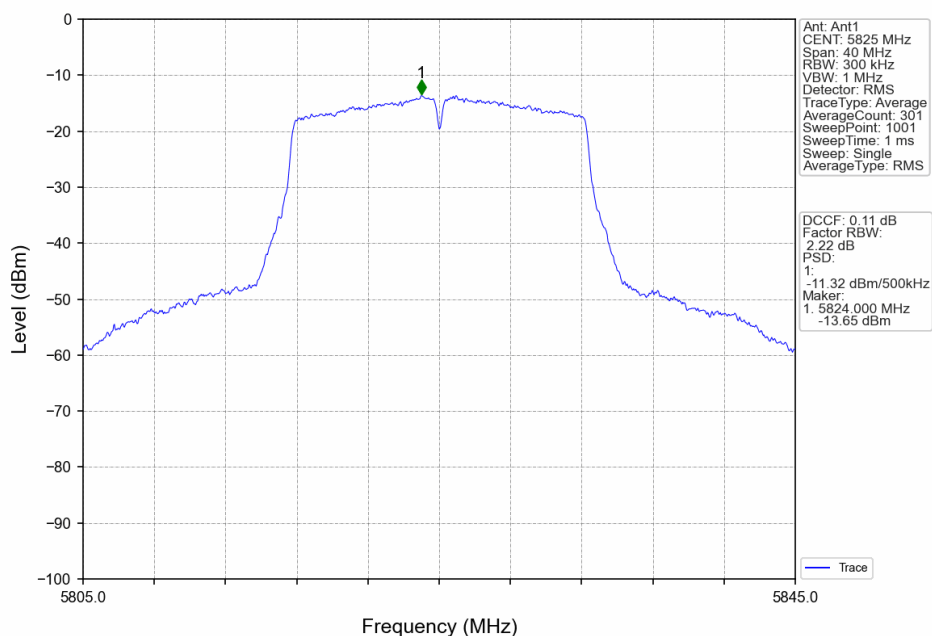
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-10.21	<=30	Pass
		5785	-11.01	<=30	Pass
		5825	-11.32	<=30	Pass
802.11n (HT20)	SISO	5745	-10.48	<=30	Pass
		5785	-11.16	<=30	Pass
		5825	-11.46	<=30	Pass
802.11n (HT40)	SISO	5755	-13.96	<=30	Pass
		5795	-14.84	<=30	Pass

Note1: Antenna Gain: Ant1: 1.09dBi;

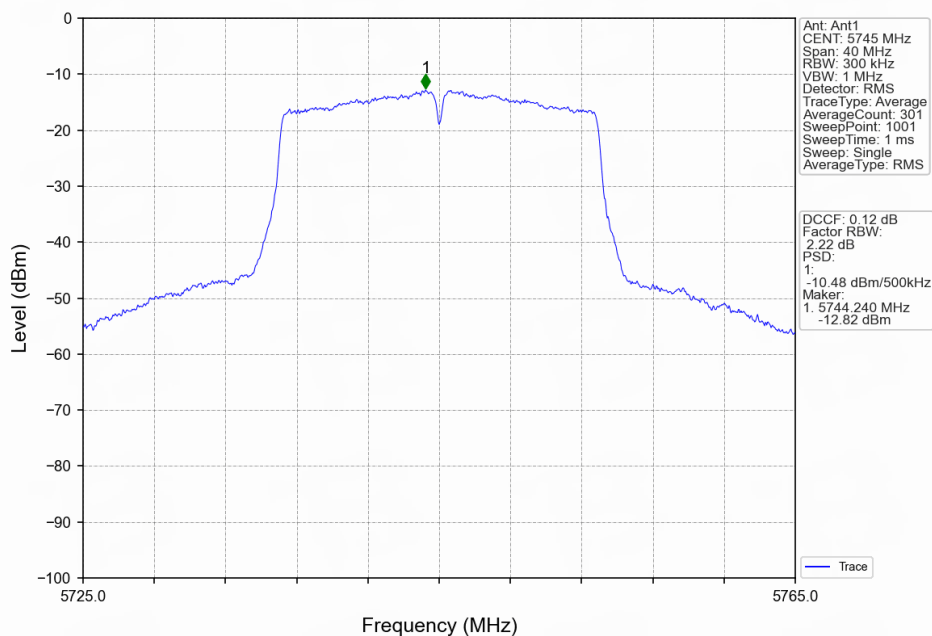
4.2.2 Test Graph



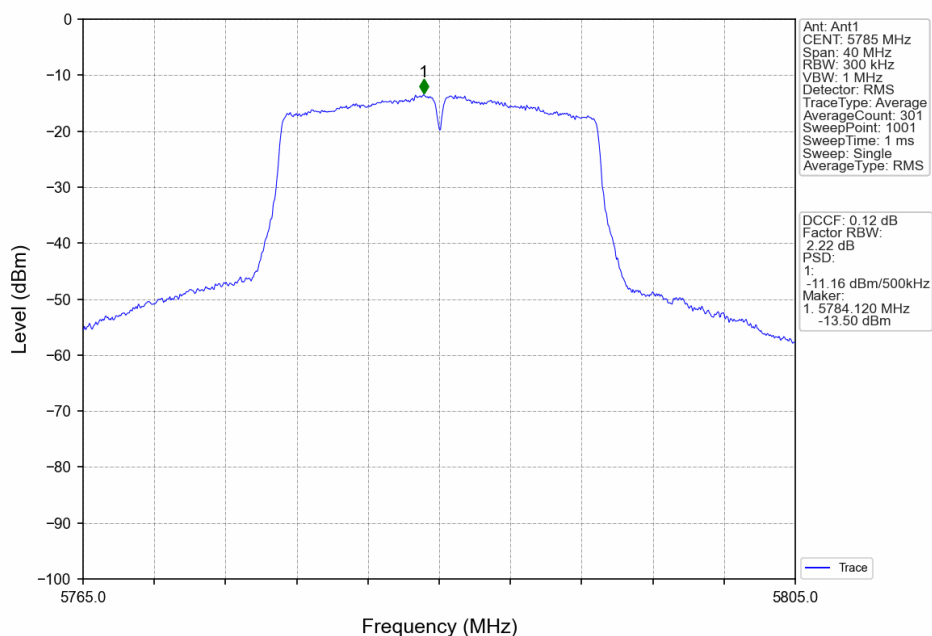
802.11a_HCH_5825MHz_Ant1_NTNV



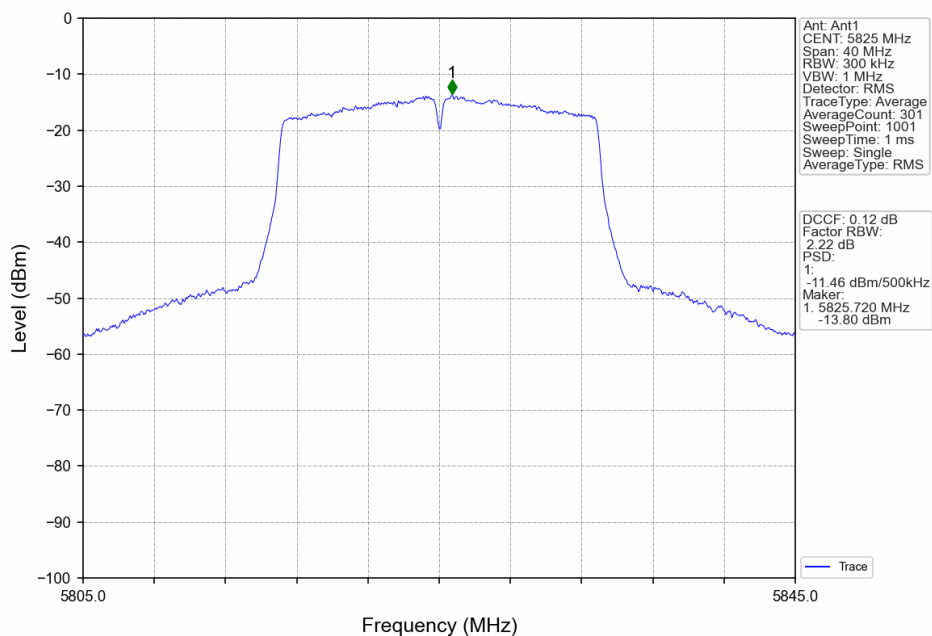
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



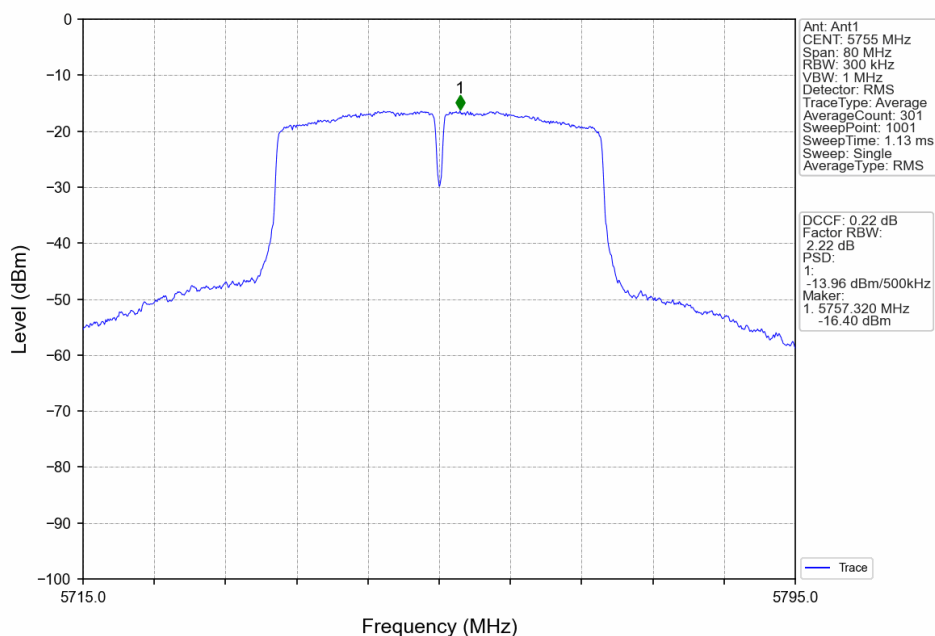
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



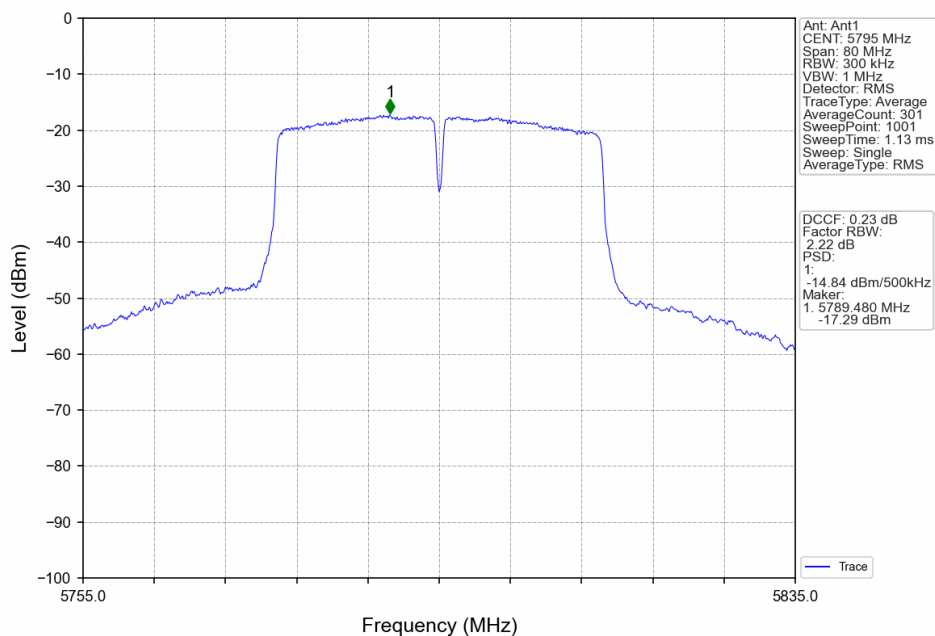
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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

Mode	TX Type	Frequency (MHz)	Temperature (°C)	Ant1		Limit (MHz)	Verdict
				Voltage (VAC)	Measured Frequency (MHz)		
Carrier Wave	SISO	5180	20	102	5179.999	5150 to 5250	Pass
				120	5179.999	5150 to 5250	Pass
				138	5179.999	5150 to 5250	Pass
			-30	120	5179.999	5150 to 5250	Pass
			-20	120	5179.999	5150 to 5250	Pass
			-10	120	5179.999	5150 to 5250	Pass
			0	120	5179.999	5150 to 5250	Pass
			10	120	5179.999	5150 to 5250	Pass
			30	120	5179.999	5150 to 5250	Pass
			40	120	5179.999	5150 to 5250	Pass
			50	120	5179.999	5150 to 5250	Pass
		5200	20	102	5199.999	5150 to 5250	Pass
				120	5199.999	5150 to 5250	Pass
				138	5199.999	5150 to 5250	Pass
			-30	120	5199.999	5150 to 5250	Pass
			-20	120	5199.999	5150 to 5250	Pass
			-10	120	5199.999	5150 to 5250	Pass
			0	120	5199.999	5150 to 5250	Pass
			10	120	5199.999	5150 to 5250	Pass
			30	120	5199.999	5150 to 5250	Pass
			40	120	5199.999	5150 to 5250	Pass
			50	120	5199.999	5150 to 5250	Pass
		5240	20	102	5239.999	5150 to 5250	Pass
				120	5239.999	5150 to 5250	Pass
				138	5239.999	5150 to 5250	Pass
			-30	120	5239.999	5150 to 5250	Pass
			-20	120	5239.999	5150 to 5250	Pass
			-10	120	5239.999	5150 to 5250	Pass
			0	120	5239.999	5150 to 5250	Pass
			10	120	5239.999	5150 to 5250	Pass
			30	120	5239.999	5150 to 5250	Pass
			40	120	5239.999	5150 to 5250	Pass
			50	120	5239.999	5150 to 5250	Pass
		5260	20	102	5259.999	5250 to 5350	Pass
				120	5259.999	5250 to 5350	Pass
				138	5259.999	5250 to 5350	Pass
			-30	120	5259.999	5250 to 5350	Pass
			-20	120	5259.999	5250 to 5350	Pass
			-10	120	5259.999	5250 to 5350	Pass
			0	120	5259.999	5250 to 5350	Pass
			10	120	5259.999	5250 to 5350	Pass
			30	120	5259.999	5250 to 5350	Pass
			40	120	5259.999	5250 to 5350	Pass
			50	120	5259.999	5250 to 5350	Pass
		5300	20	102	5299.999	5250 to 5350	Pass
				120	5299.999	5250 to 5350	Pass
				138	5299.999	5250 to 5350	Pass
			-30	120	5299.999	5250 to 5350	Pass
			-20	120	5299.999	5250 to 5350	Pass
			-10	120	5299.999	5250 to 5350	Pass
			0	120	5299.999	5250 to 5350	Pass

			10	120	5299.999	5250 to 5350	Pass
			30	120	5299.999	5250 to 5350	Pass
			40	120	5299.999	5250 to 5350	Pass
			50	120	5299.999	5250 to 5350	Pass
		5320	20	102	5319.999	5250 to 5350	Pass
				120	5319.999	5250 to 5350	Pass
				138	5319.999	5250 to 5350	Pass
			-30	120	5319.999	5250 to 5350	Pass
			-20	120	5319.999	5250 to 5350	Pass
			-10	120	5319.999	5250 to 5350	Pass
			0	120	5319.999	5250 to 5350	Pass
			10	120	5319.999	5250 to 5350	Pass
			30	120	5319.999	5250 to 5350	Pass
			40	120	5319.999	5250 to 5350	Pass
			50	120	5319.999	5250 to 5350	Pass
		5745	20	102	5744.998	5725 to 5850	Pass
				120	5744.999	5725 to 5850	Pass
				138	5744.999	5725 to 5850	Pass
			-30	120	5744.999	5725 to 5850	Pass
			-20	120	5744.999	5725 to 5850	Pass
			-10	120	5744.999	5725 to 5850	Pass
			0	120	5744.999	5725 to 5850	Pass
			10	120	5744.999	5725 to 5850	Pass
			30	120	5744.999	5725 to 5850	Pass
			40	120	5744.999	5725 to 5850	Pass
			50	120	5744.999	5725 to 5850	Pass
		5785	20	102	5784.998	5725 to 5850	Pass
				120	5784.999	5725 to 5850	Pass
				138	5784.999	5725 to 5850	Pass
			-30	120	5784.999	5725 to 5850	Pass
			-20	120	5784.999	5725 to 5850	Pass
			-10	120	5784.999	5725 to 5850	Pass
			0	120	5784.999	5725 to 5850	Pass
			10	120	5784.999	5725 to 5850	Pass
			30	120	5784.999	5725 to 5850	Pass
			40	120	5784.999	5725 to 5850	Pass
			50	120	5784.999	5725 to 5850	Pass
		5825	20	102	5824.999	5725 to 5850	Pass
				120	5824.999	5725 to 5850	Pass
				138	5824.999	5725 to 5850	Pass
			-30	120	5824.999	5725 to 5850	Pass
			-20	120	5824.999	5725 to 5850	Pass
			-10	120	5824.999	5725 to 5850	Pass
			0	120	5824.999	5725 to 5850	Pass
			10	120	5824.999	5725 to 5850	Pass
			30	120	5824.999	5725 to 5850	Pass
			40	120	5824.999	5725 to 5850	Pass
			50	120	5824.999	5725 to 5850	Pass
		5190	20	102	5189.999	5150 to 5250	Pass
				120	5189.999	5150 to 5250	Pass
				138	5189.999	5150 to 5250	Pass
			-30	120	5189.999	5150 to 5250	Pass
			-20	120	5189.999	5150 to 5250	Pass
			-10	120	5189.999	5150 to 5250	Pass
			0	120	5189.999	5150 to 5250	Pass
			10	120	5189.999	5150 to 5250	Pass
			30	120	5189.999	5150 to 5250	Pass
			40	120	5189.999	5150 to 5250	Pass

		5230	50	120	5189.999	5150 to 5250	Pass
			20	102	5229.999	5150 to 5250	Pass
				120	5229.999	5150 to 5250	Pass
				138	5229.999	5150 to 5250	Pass
			-30	120	5229.999	5150 to 5250	Pass
			-20	120	5229.999	5150 to 5250	Pass
			-10	120	5229.999	5150 to 5250	Pass
			0	120	5229.999	5150 to 5250	Pass
			10	120	5229.999	5150 to 5250	Pass
			30	120	5229.999	5150 to 5250	Pass
			40	120	5229.999	5150 to 5250	Pass
			50	120	5229.999	5150 to 5250	Pass
		5270	20	102	5269.999	5250 to 5350	Pass
				120	5269.999	5250 to 5350	Pass
				138	5269.999	5250 to 5350	Pass
			-30	120	5269.999	5250 to 5350	Pass
			-20	120	5269.999	5250 to 5350	Pass
			-10	120	5269.999	5250 to 5350	Pass
			0	120	5269.999	5250 to 5350	Pass
			10	120	5269.999	5250 to 5350	Pass
			30	120	5269.999	5250 to 5350	Pass
			40	120	5269.999	5250 to 5350	Pass
			50	120	5269.999	5250 to 5350	Pass
		5310	20	102	5309.999	5250 to 5350	Pass
				120	5309.999	5250 to 5350	Pass
				138	5309.999	5250 to 5350	Pass
			-30	120	5309.999	5250 to 5350	Pass
			-20	120	5309.999	5250 to 5350	Pass
			-10	120	5309.999	5250 to 5350	Pass
			0	120	5309.999	5250 to 5350	Pass
			10	120	5309.999	5250 to 5350	Pass
			30	120	5309.999	5250 to 5350	Pass
			40	120	5309.999	5250 to 5350	Pass
			50	120	5309.999	5250 to 5350	Pass
		5755	20	102	5754.999	5725 to 5850	Pass
				120	5754.999	5725 to 5850	Pass
				138	5754.999	5725 to 5850	Pass
			-30	120	5754.999	5725 to 5850	Pass
			-20	120	5754.999	5725 to 5850	Pass
			-10	120	5754.999	5725 to 5850	Pass
			0	120	5754.999	5725 to 5850	Pass
			10	120	5754.999	5725 to 5850	Pass
			30	120	5754.999	5725 to 5850	Pass
			40	120	5754.999	5725 to 5850	Pass
			50	120	5754.999	5725 to 5850	Pass
		5795	20	102	5794.999	5725 to 5850	Pass
				120	5794.999	5725 to 5850	Pass
				138	5794.999	5725 to 5850	Pass
			-30	120	5794.999	5725 to 5850	Pass
			-20	120	5794.999	5725 to 5850	Pass
			-10	120	5794.999	5725 to 5850	Pass
			0	120	5794.999	5725 to 5850	Pass
			10	120	5794.999	5725 to 5850	Pass
			30	120	5794.999	5725 to 5850	Pass
			40	120	5794.999	5725 to 5850	Pass
			50	120	5794.999	5725 to 5850	Pass

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5180	5240	0.0040	5.98
5260	5320	0.0050	6.97
5745	5825	0.0019	2.73
5190	5230	0.0045	6.49
5270	5310	0.0054	7.34
5755	5795	0.0020	2.99



Test Report Number: BTF230810R00504



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-- END OF REPORT --