



RF Test Report

For BTEK260713005A01E02

Project No.:	BTEK260713005A01E0204
Product Description:	24.1℃,62%,101.0kPa
Test Engineer:	Milo
Test Date:	2026-08-08~2026-08-12



Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Frequency Stability	Pass
Band Edge	Pass
Spurious Emission	Pass
Additional Spurious Emission	Pass



1. Duty Cycle

1.1 Test Result

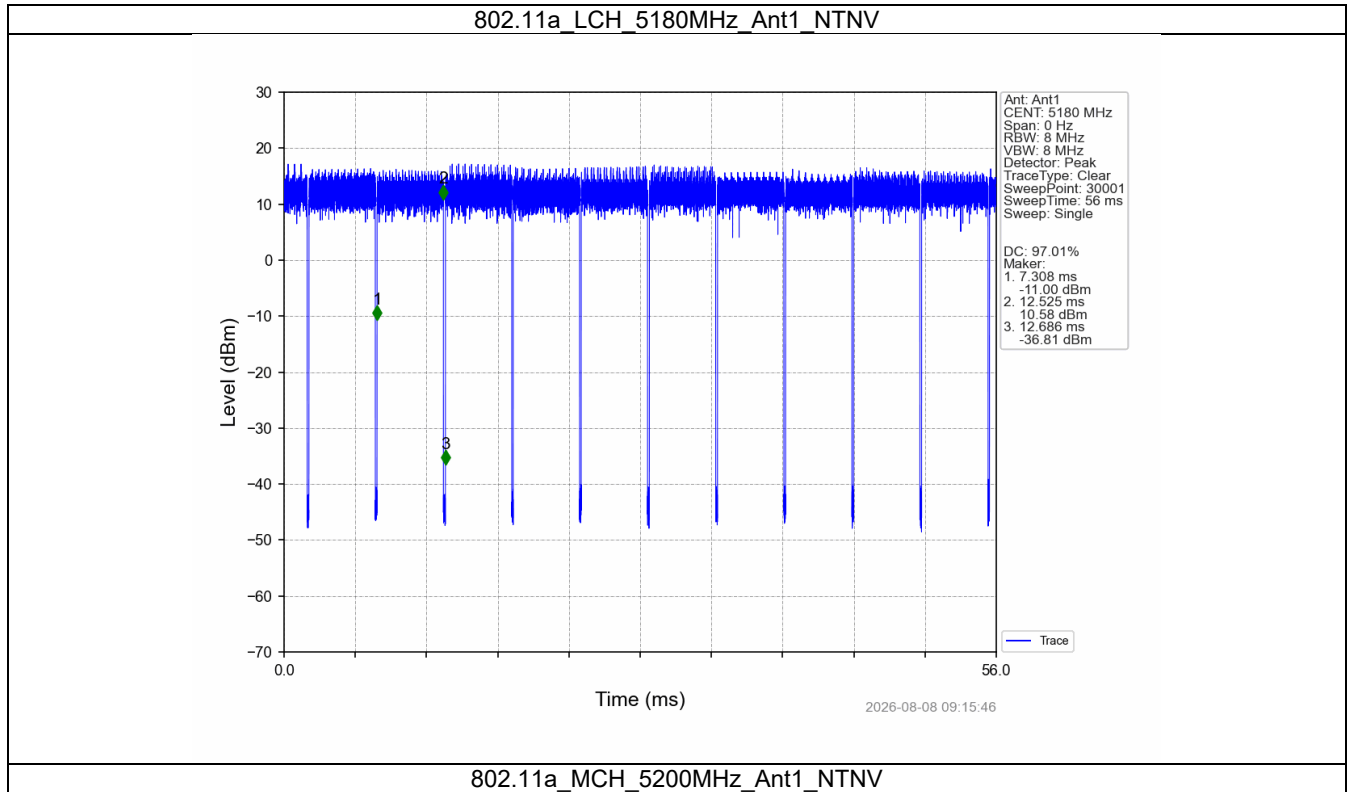
1.1.1 Ant1

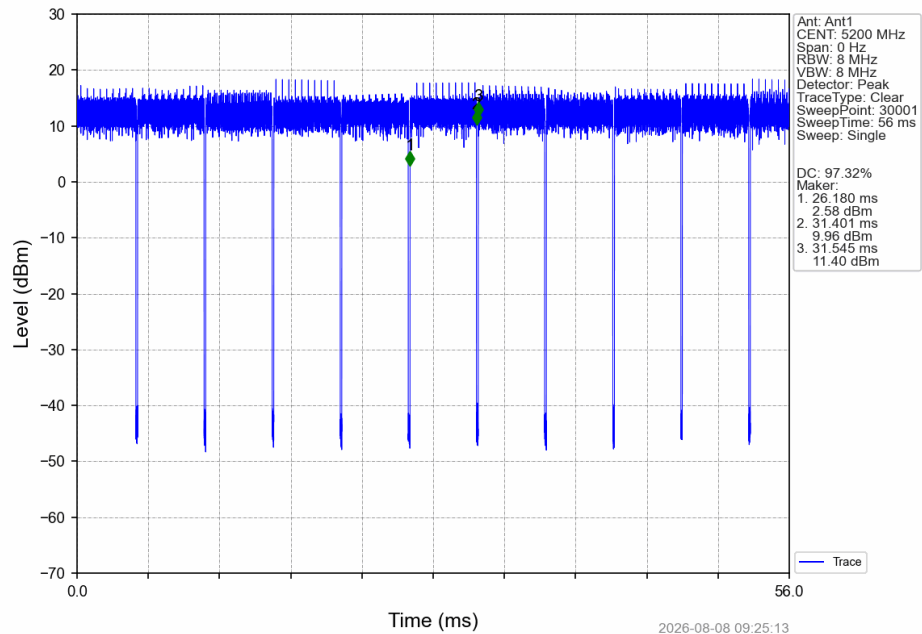
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	5.217	5.378	97.01	0.13	0.82
		5200	5.221	5.365	97.32	0.12	0.51
		5240	5.221	5.363	97.35	0.12	0.48
802.11n (HT20)	SISO	5180	5.216	5.360	97.31	0.12	0.51
		5200	5.219	5.372	97.15	0.13	0.68
		5240	5.219	5.354	97.48	0.11	0.34
802.11n (HT40)	SISO	5190	5.221	5.347	97.64	0.10	0.51
		5230	5.202	5.338	97.45	0.11	0.76
802.11ac (VHT20)	SISO	5180	5.174	5.725	90.38	0.44	8.02
		5200	5.098	5.223	97.61	0.11	0.39
		5240	5.098	5.223	97.61	0.11	0.53
802.11ac (VHT40)	SISO	5190	2.477	2.602	95.20	0.21	1.04
		5230	2.477	2.602	95.20	0.21	1.03



1.2 Test Graph

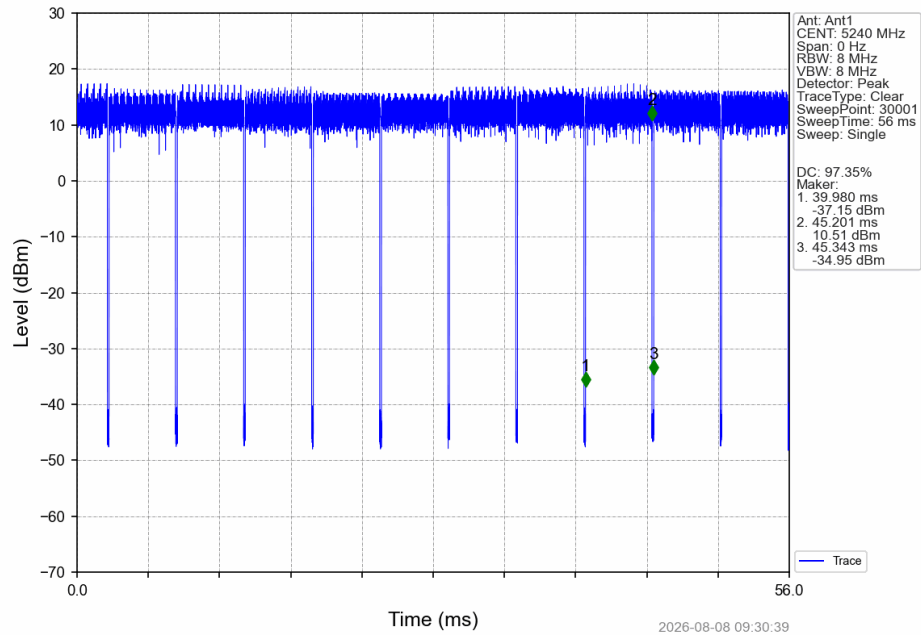
1.2.1 Ant1



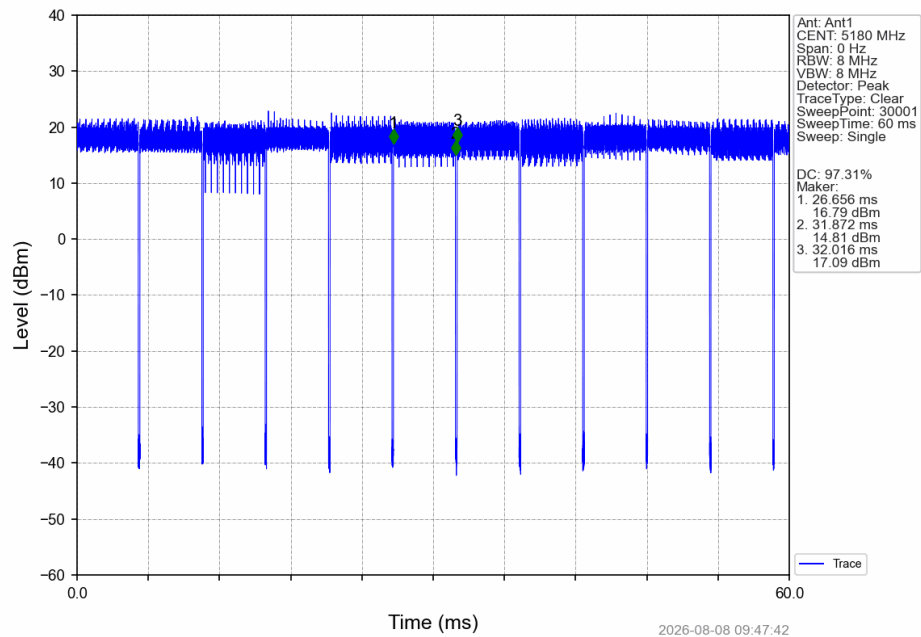




802.11a_HCH_5240MHz_Ant1_NTNV

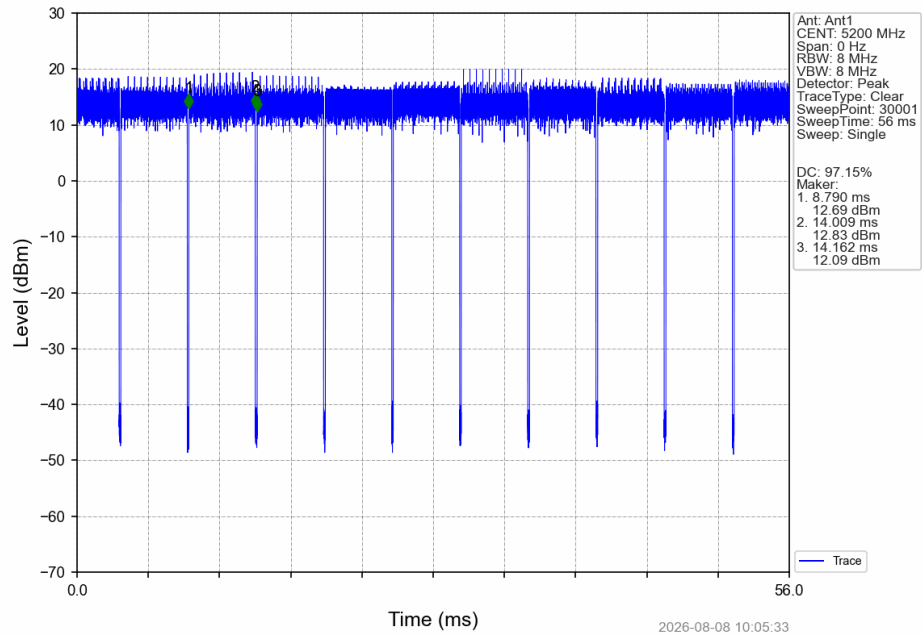


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

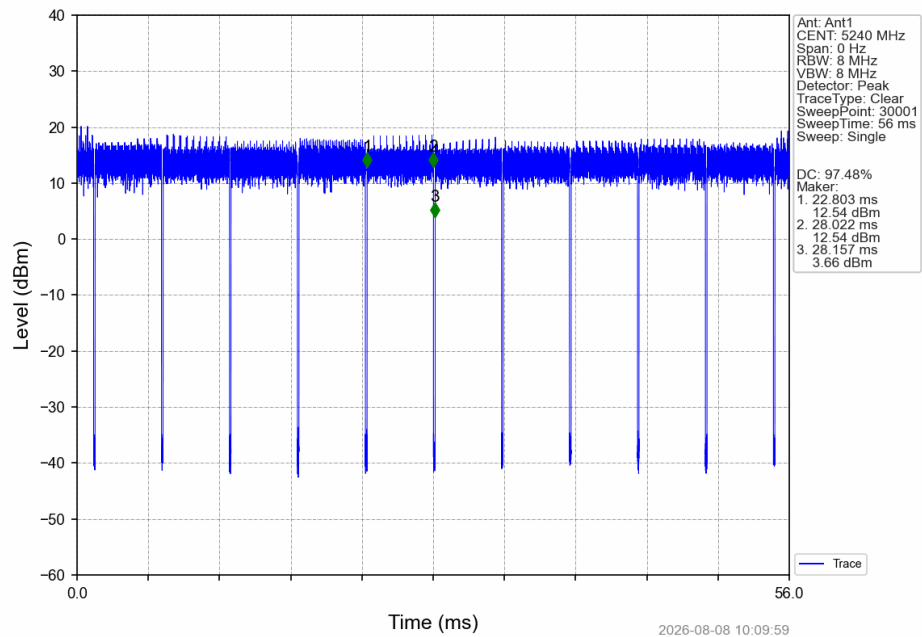




802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

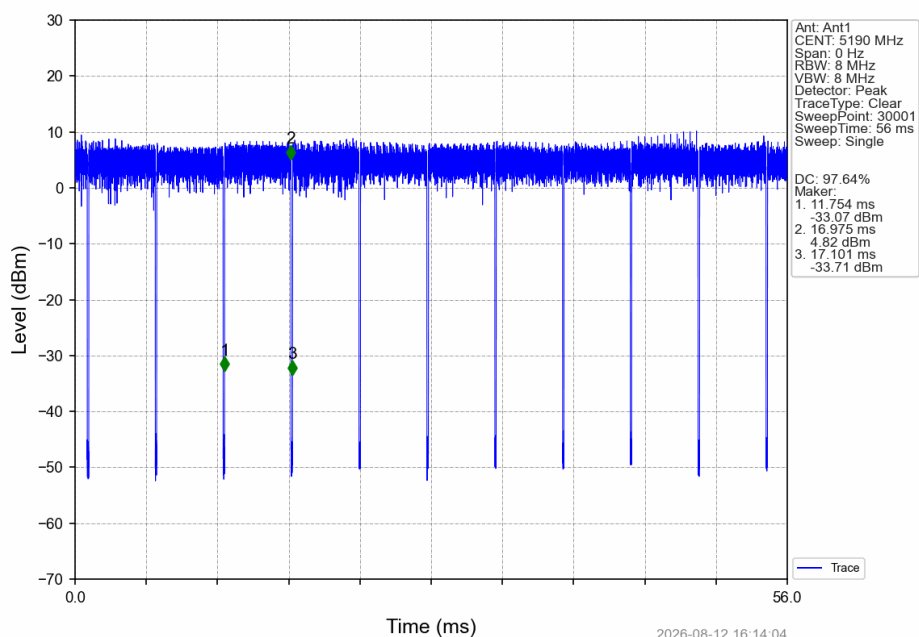


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

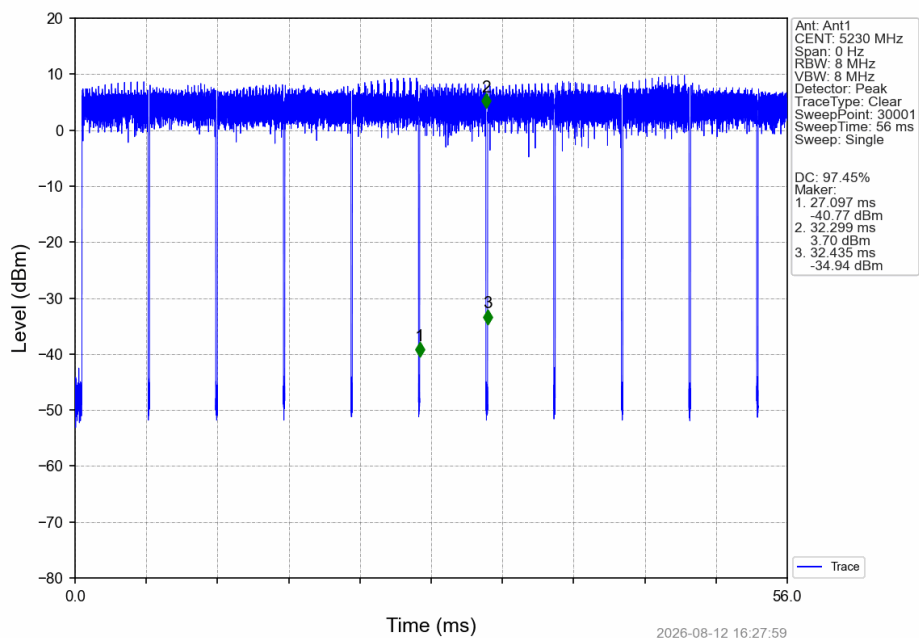




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

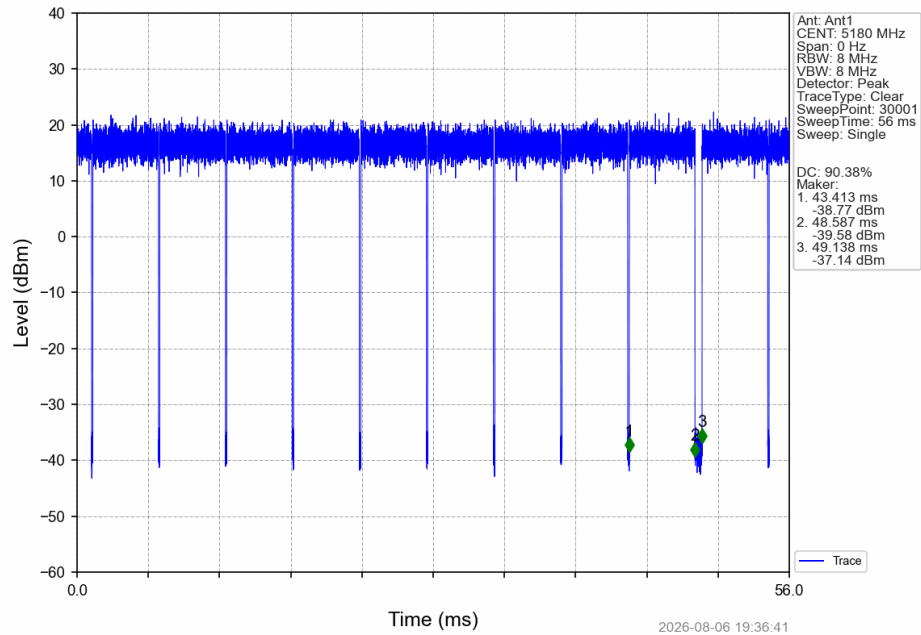


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

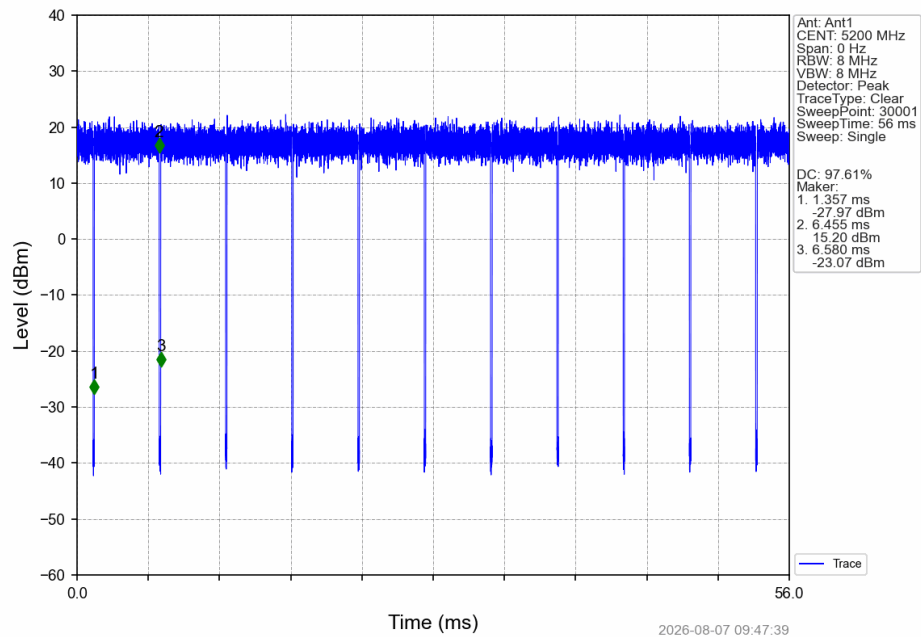




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

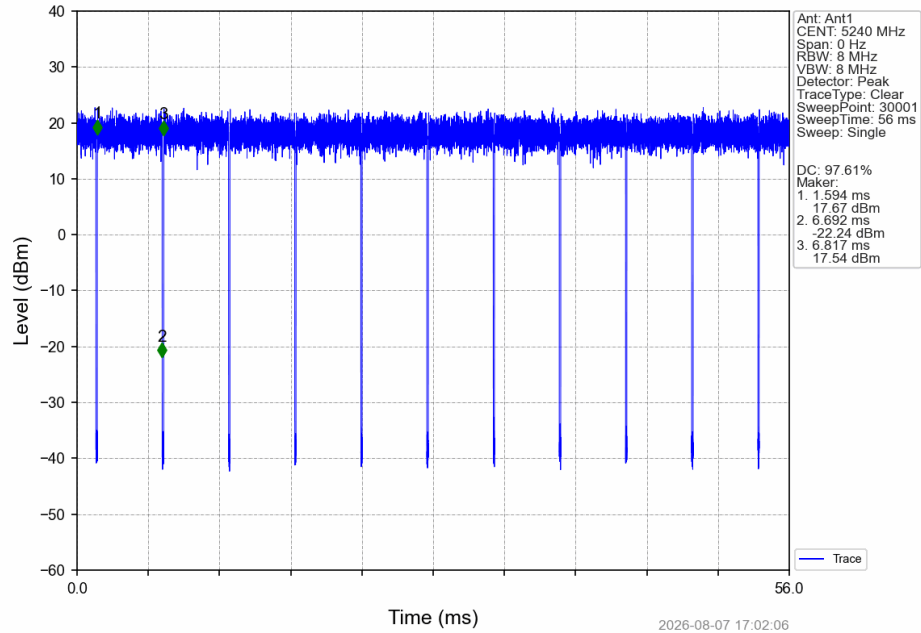


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

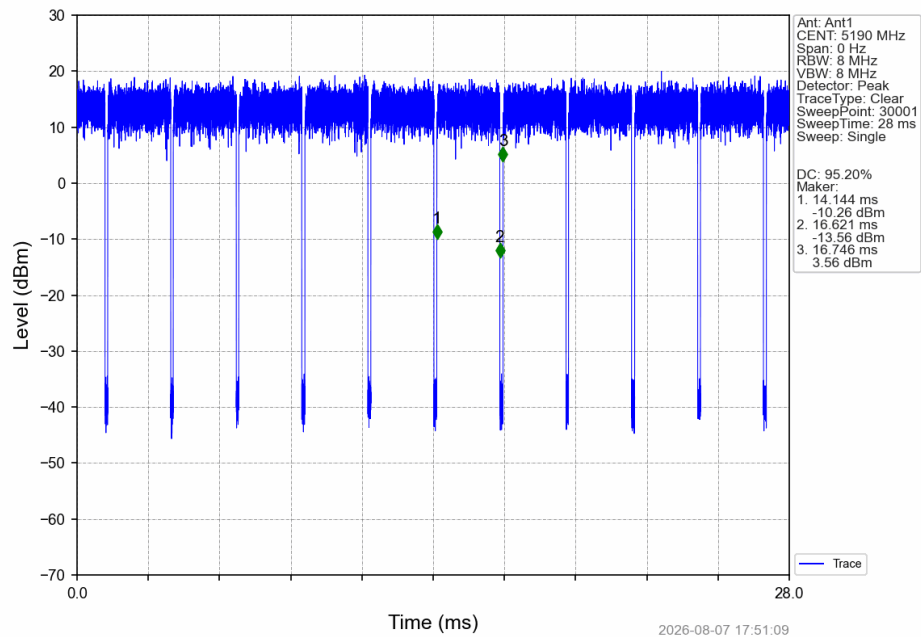


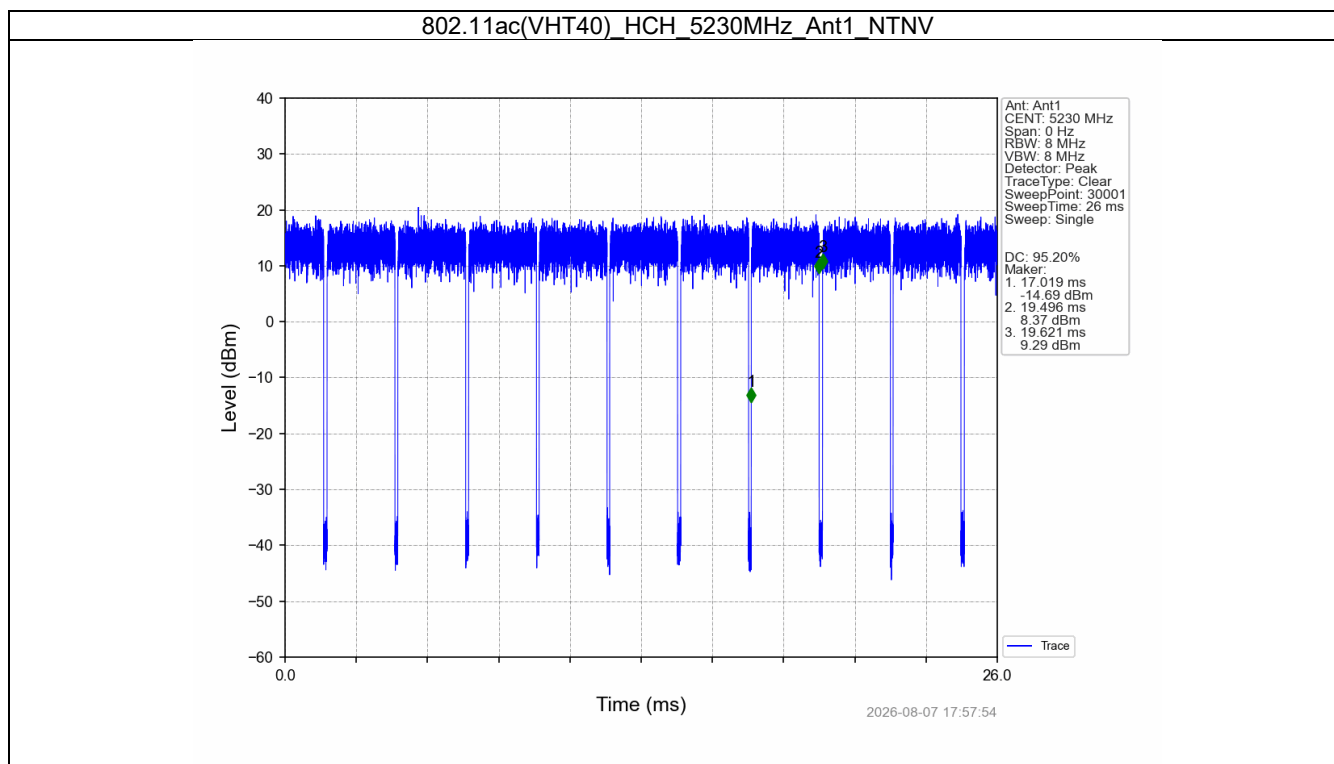


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV







2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.082	/	Pass
		5200	1	16.059	/	Pass
		5240	1	16.065	/	Pass
802.11n (HT20)	SISO	5180	1	15.966	/	Pass
		5200	1	16.038	/	Pass
		5240	1	16.055	/	Pass
802.11n (HT40)	SISO	5190	1	35.264	/	Pass
		5230	1	35.209	/	Pass
802.11ac (VHT20)	SISO	5180	1	16.954	/	Pass
		5200	1	18.466	/	Pass
		5240	1	16.962	/	Pass
802.11ac (VHT40)	SISO	5190	1	34.831	/	Pass
		5230	1	34.867	/	Pass

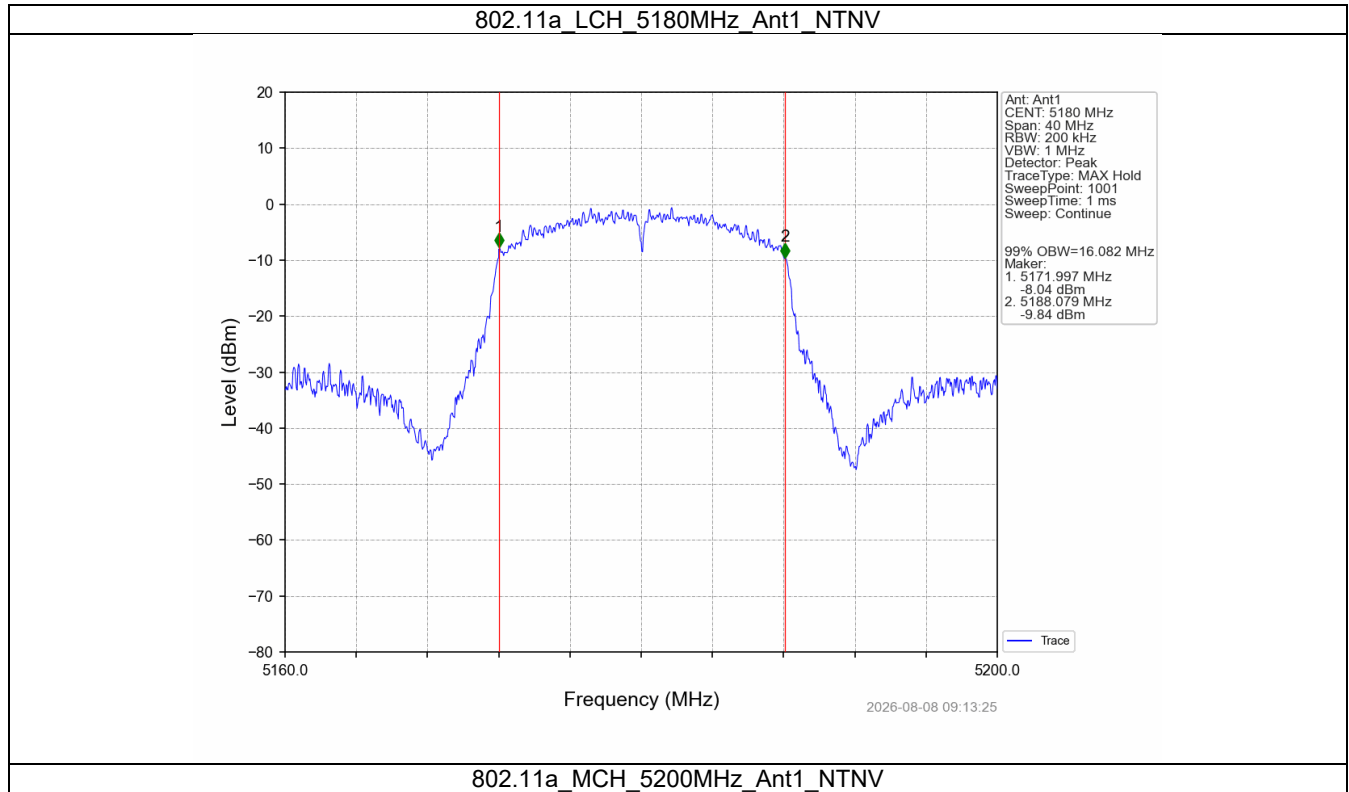
2.1.2 26dB BW

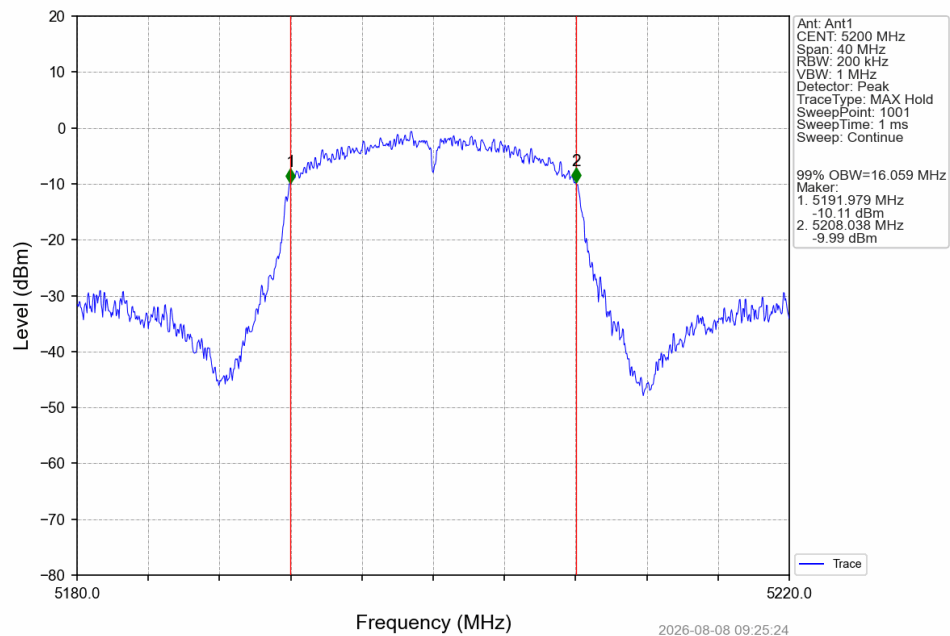
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	18.220	/	Pass
		5200	1	18.526	/	Pass
		5240	1	18.508	/	Pass
802.11n (HT20)	SISO	5180	1	18.148	/	Pass
		5200	1	18.293	/	Pass
		5240	1	18.322	/	Pass
802.11n (HT40)	SISO	5190	1	46.572	/	Pass
		5230	1	53.745	/	Pass
802.11ac (VHT20)	SISO	5180	1	19.133	/	Pass
		5200	1	40.100	/	Pass
		5240	1	19.200	/	Pass
802.11ac (VHT40)	SISO	5190	1	39.702	/	Pass
		5230	1	42.645	/	Pass



2.2 Test Graph

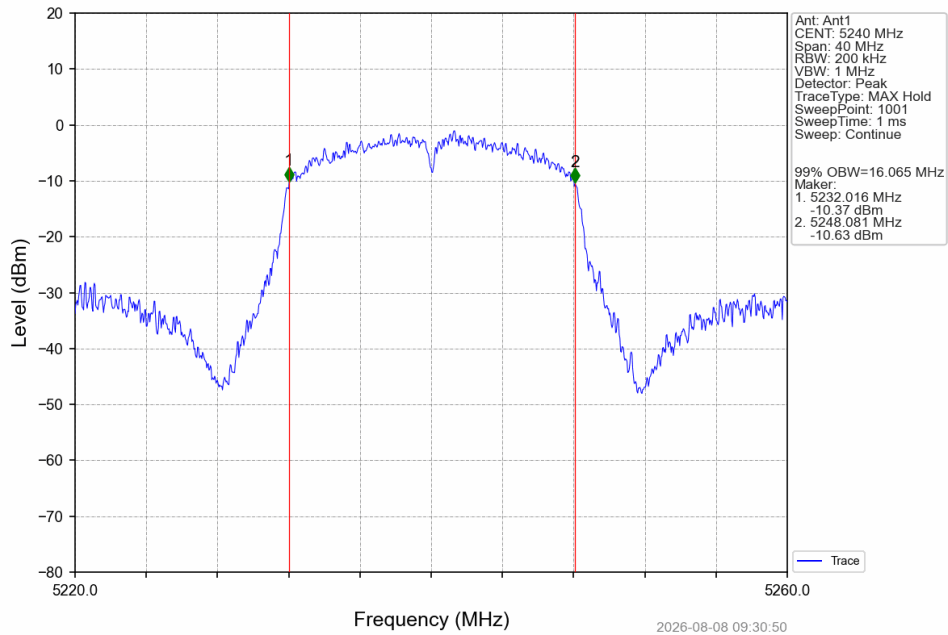
2.2.1 OBW



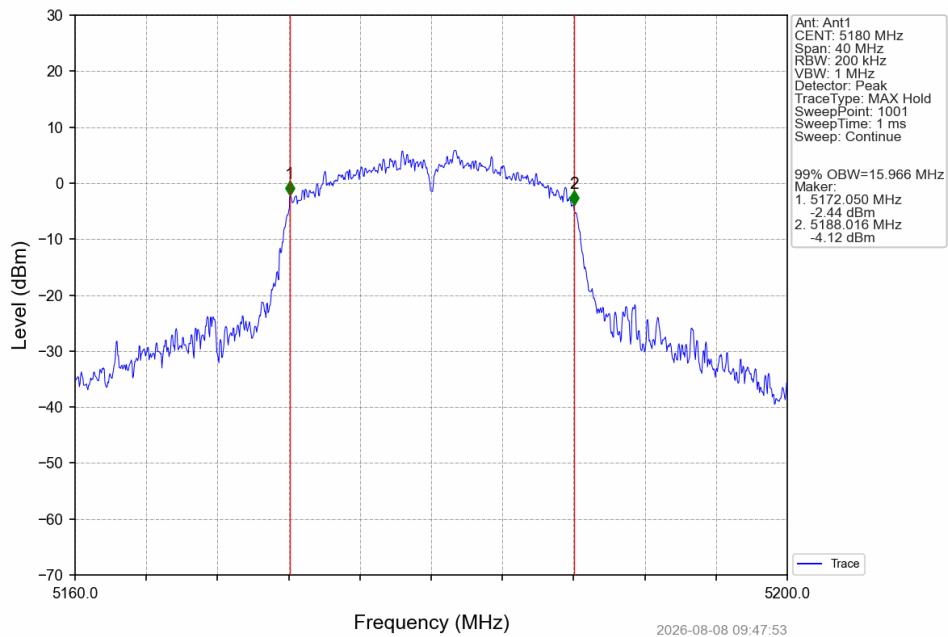




802.11a_HCH_5240MHz_Ant1_NTNV

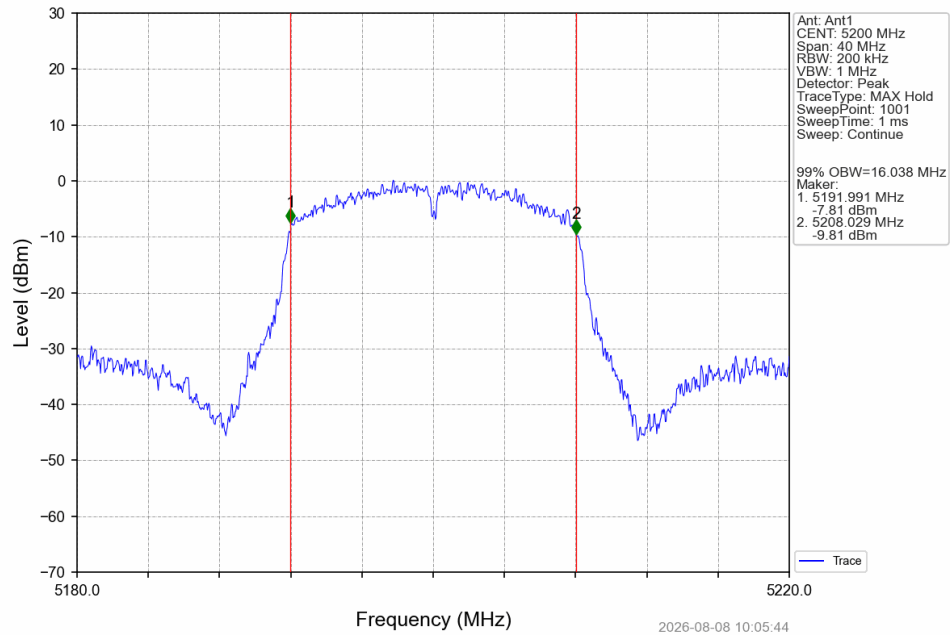


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

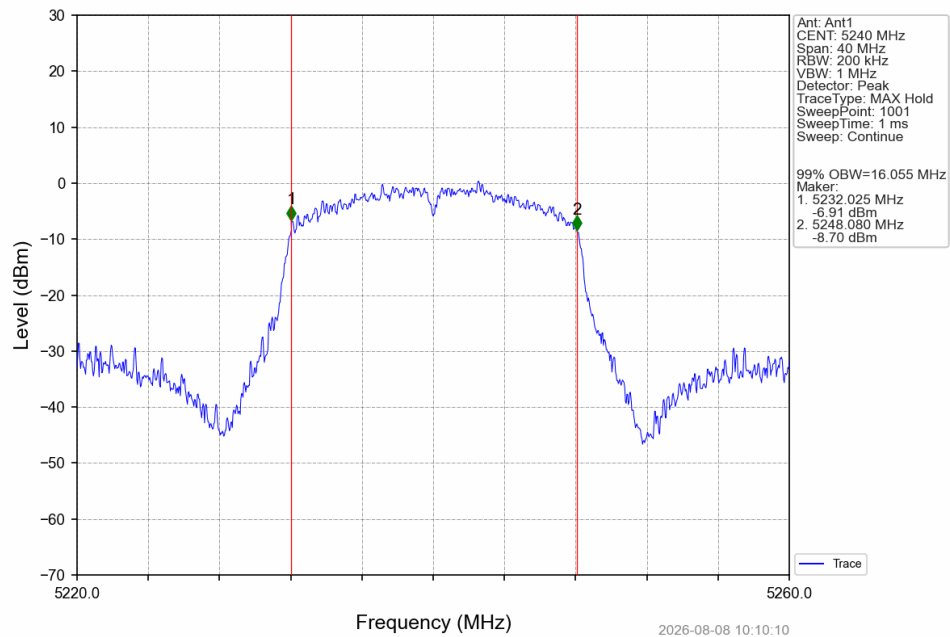




802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

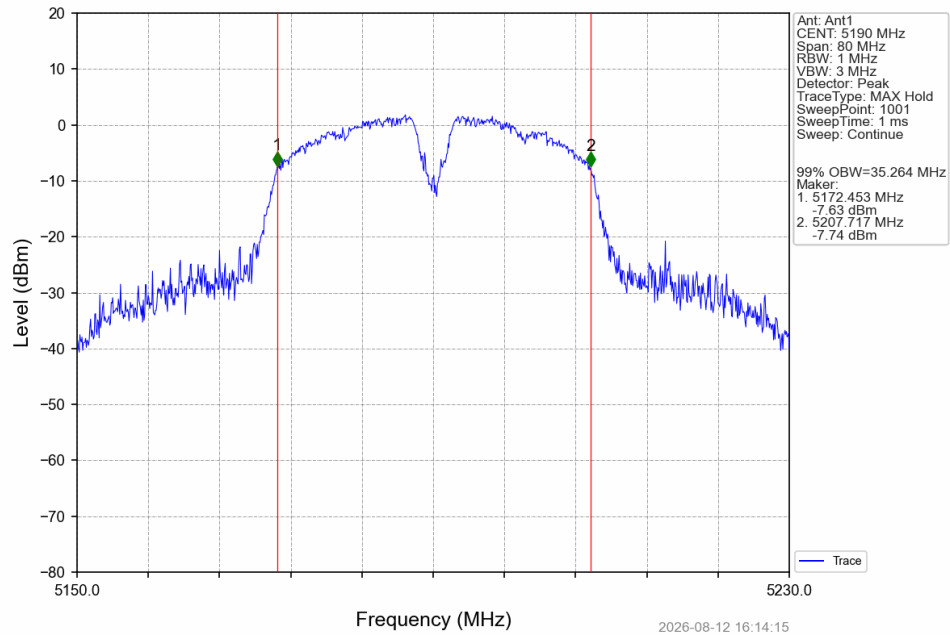


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

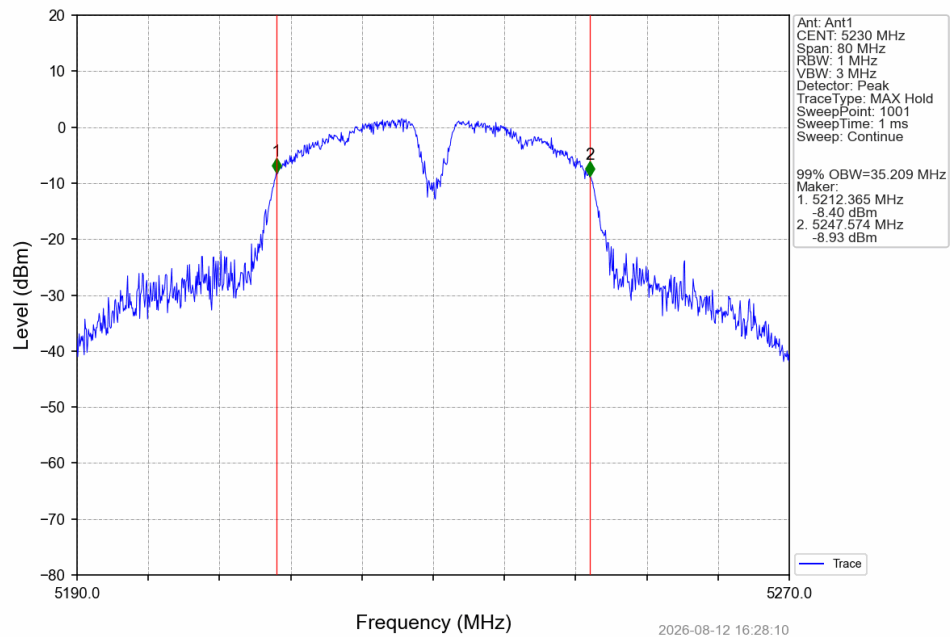




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

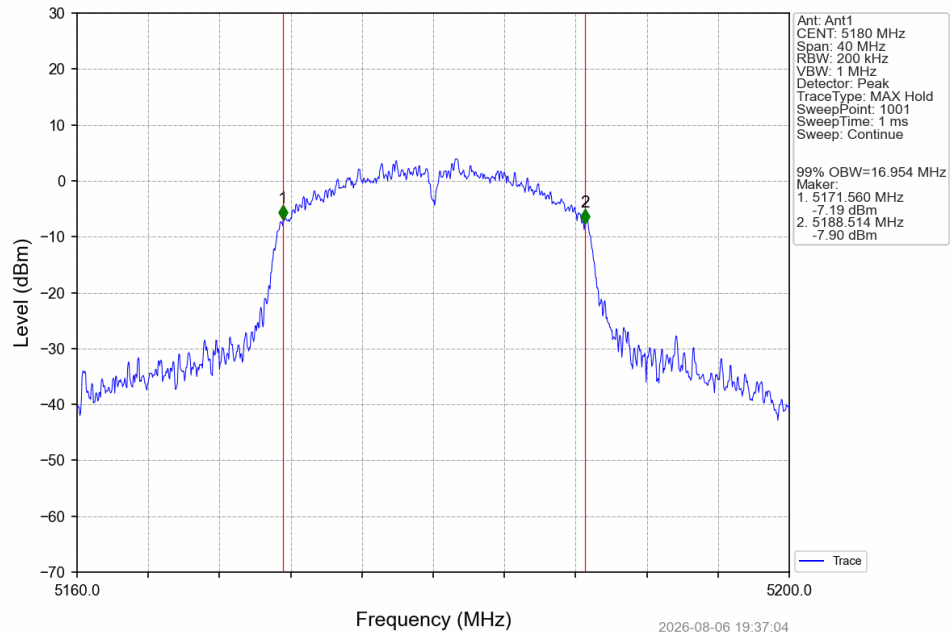


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

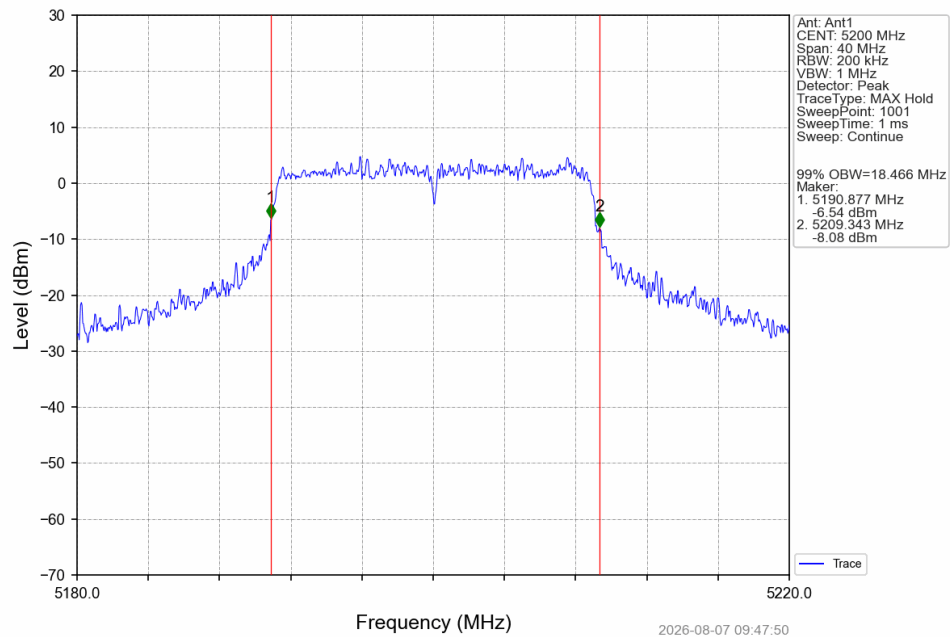




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

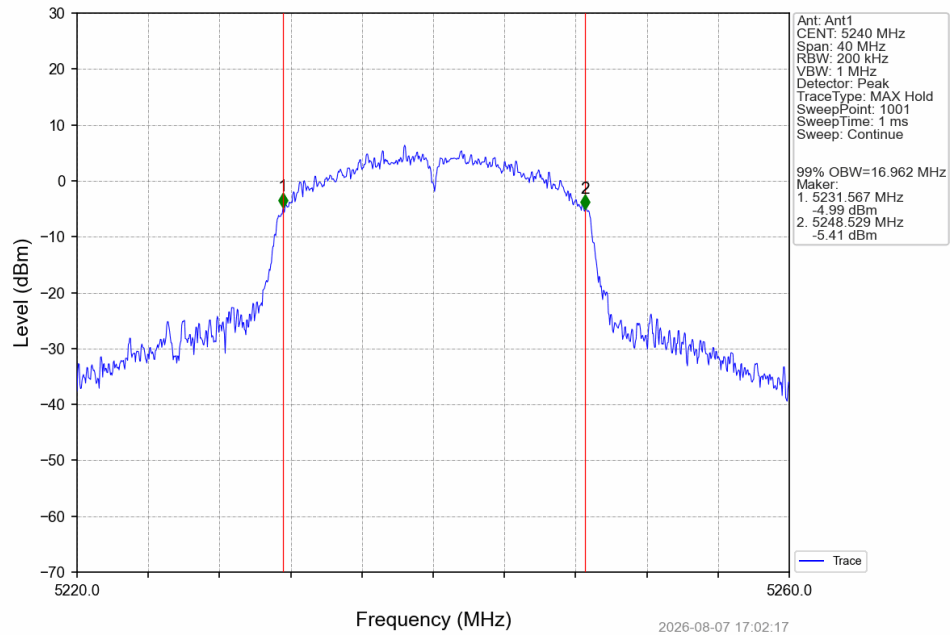


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

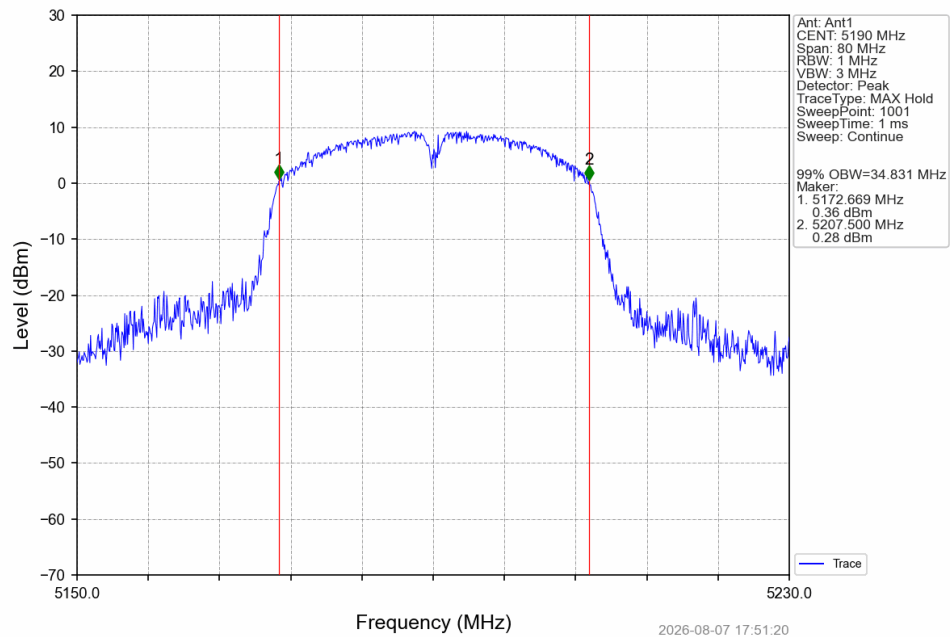


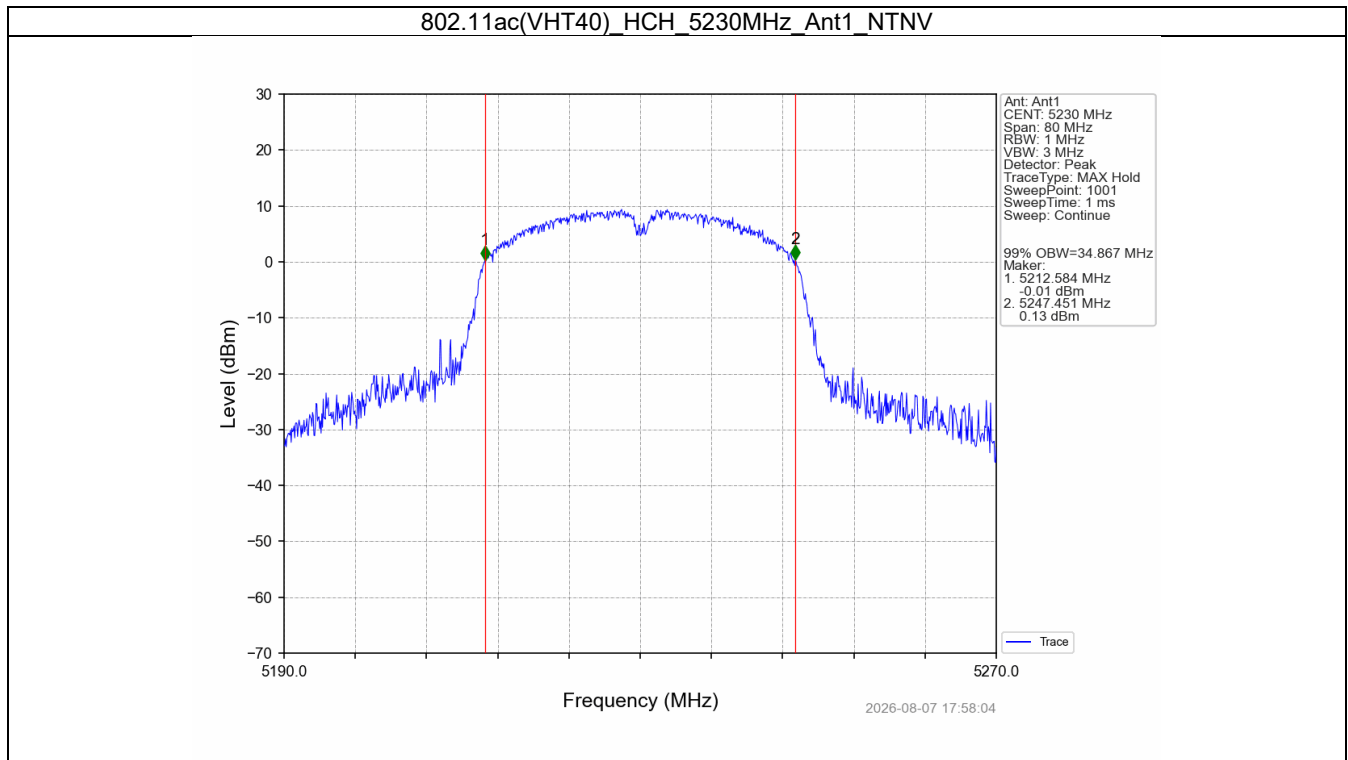


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



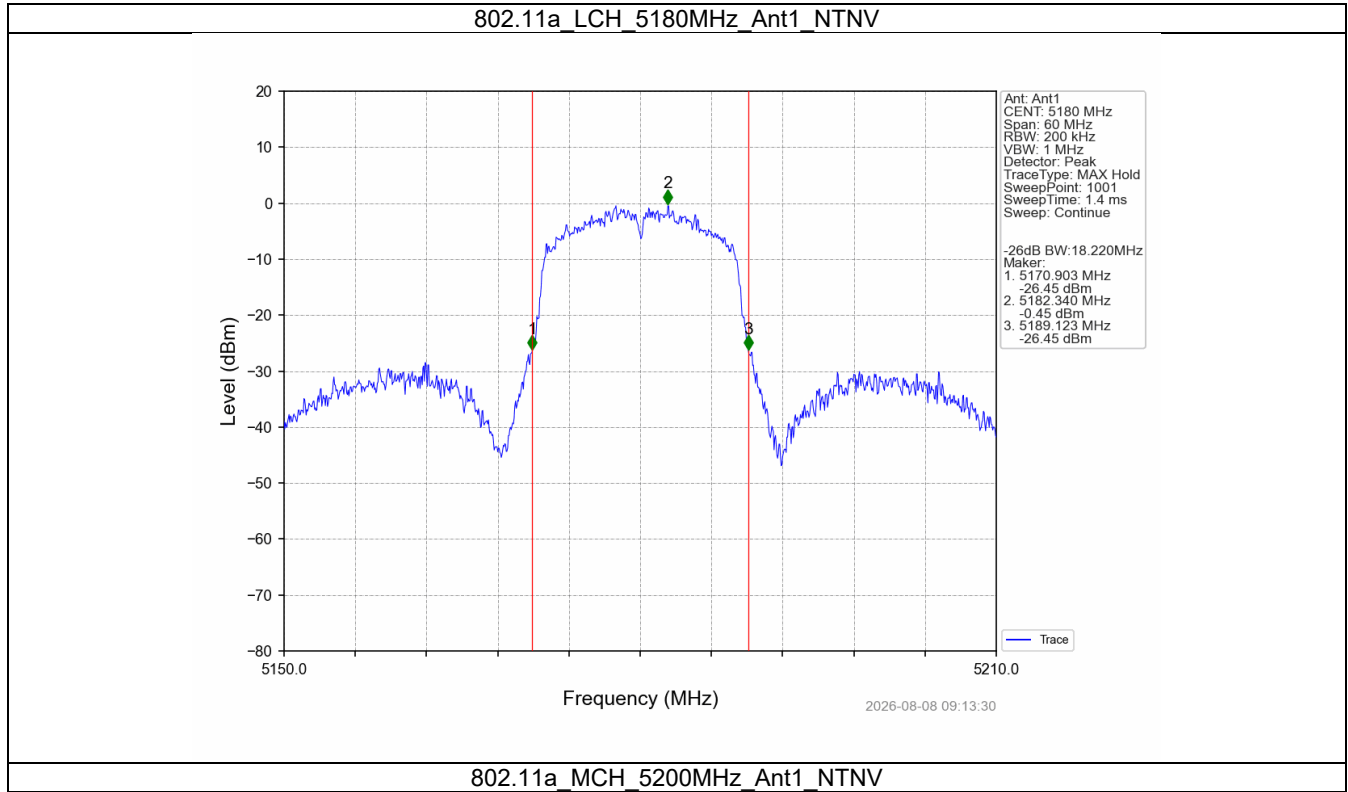
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

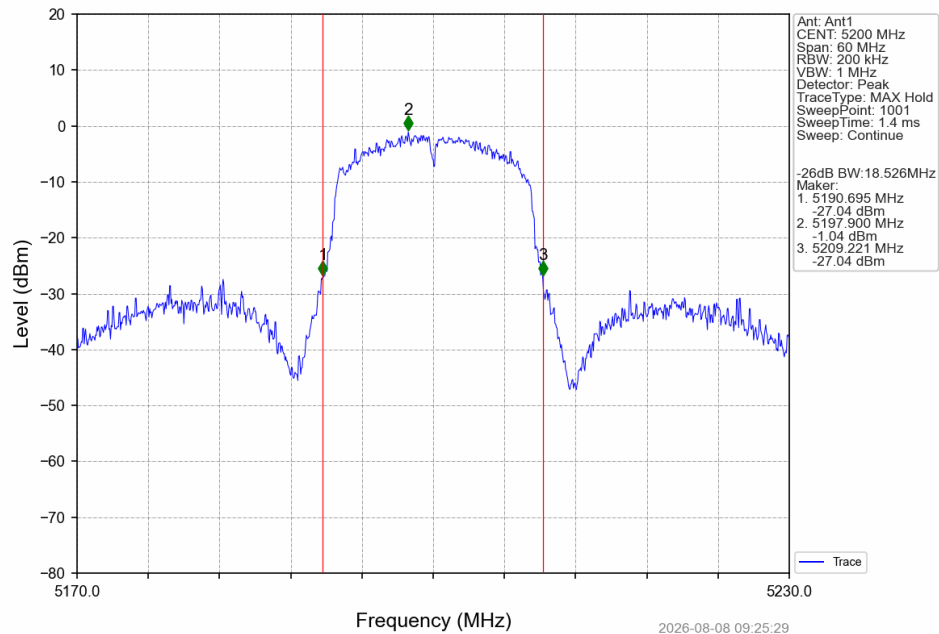






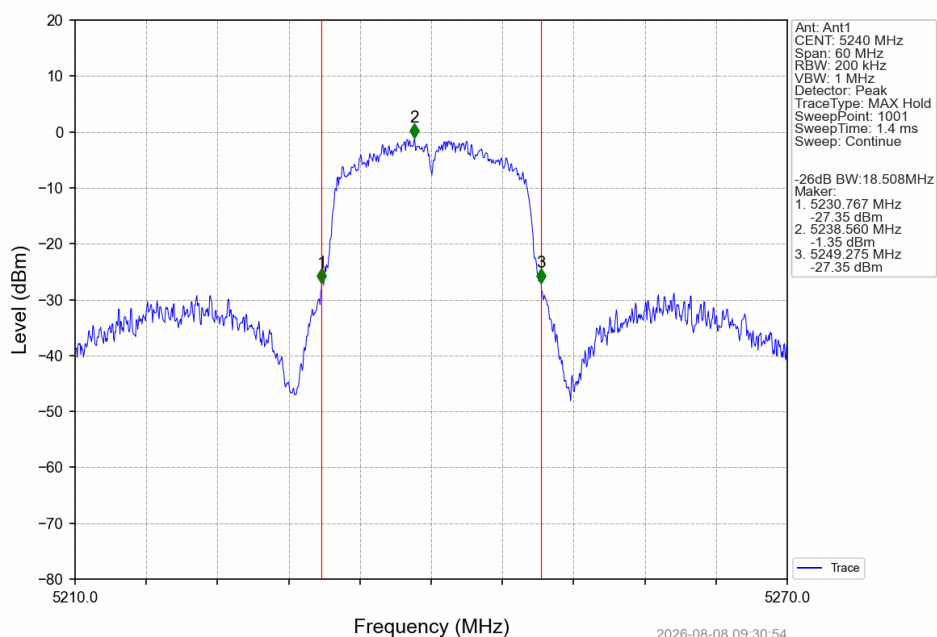
2.2.2 26dB BW



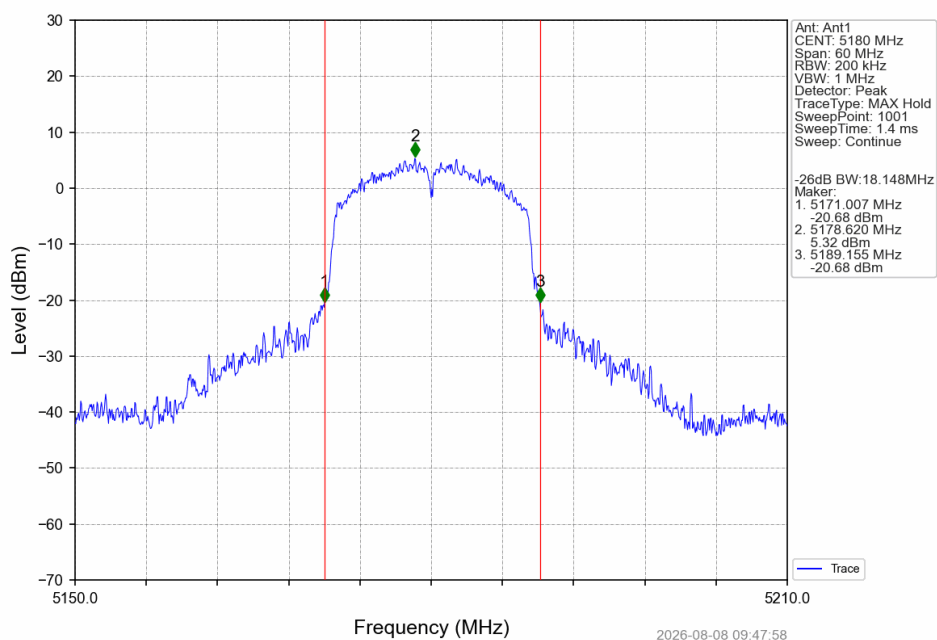




802.11a_HCH_5240MHz_Ant1_NTNV

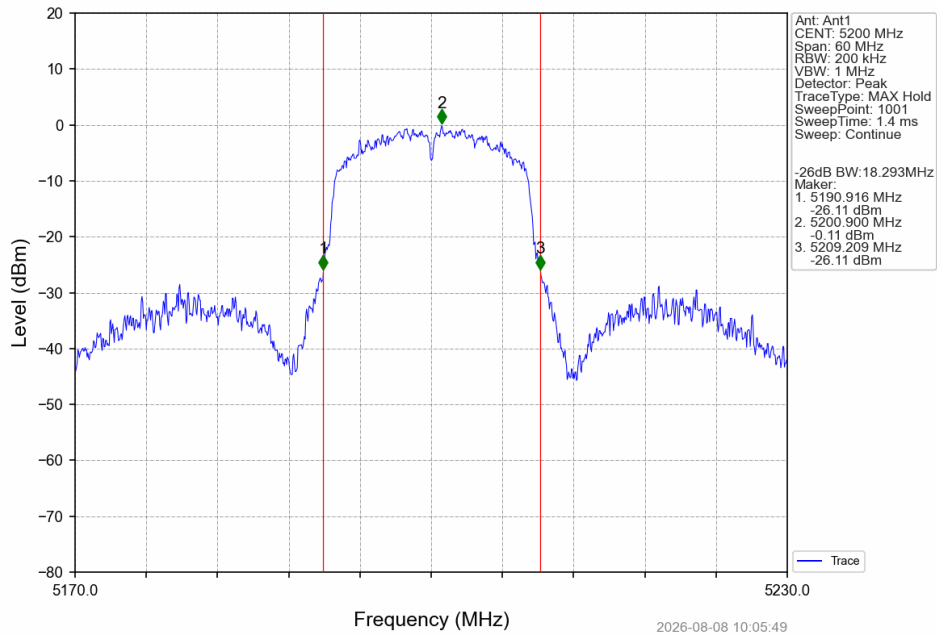


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

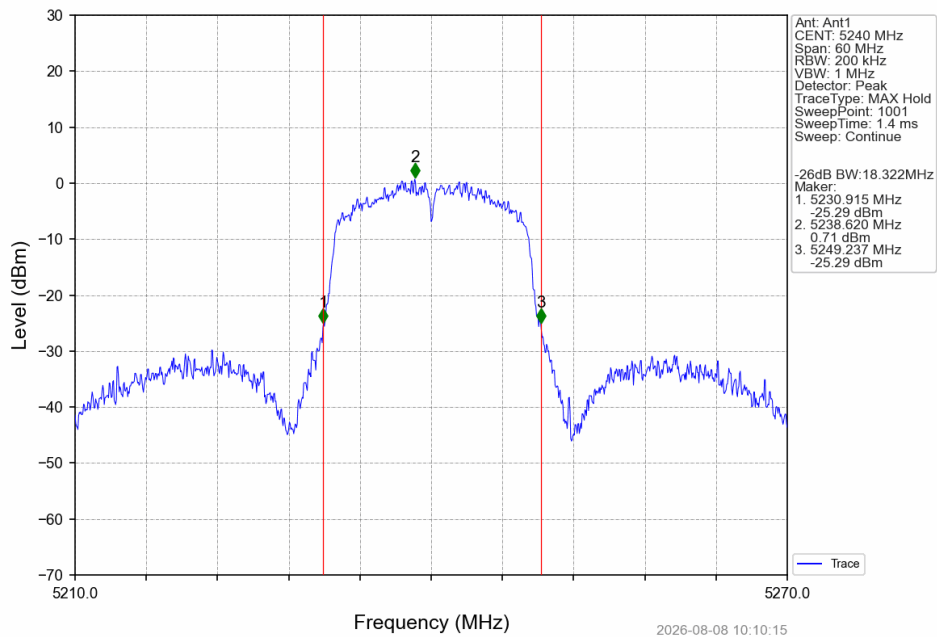




802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

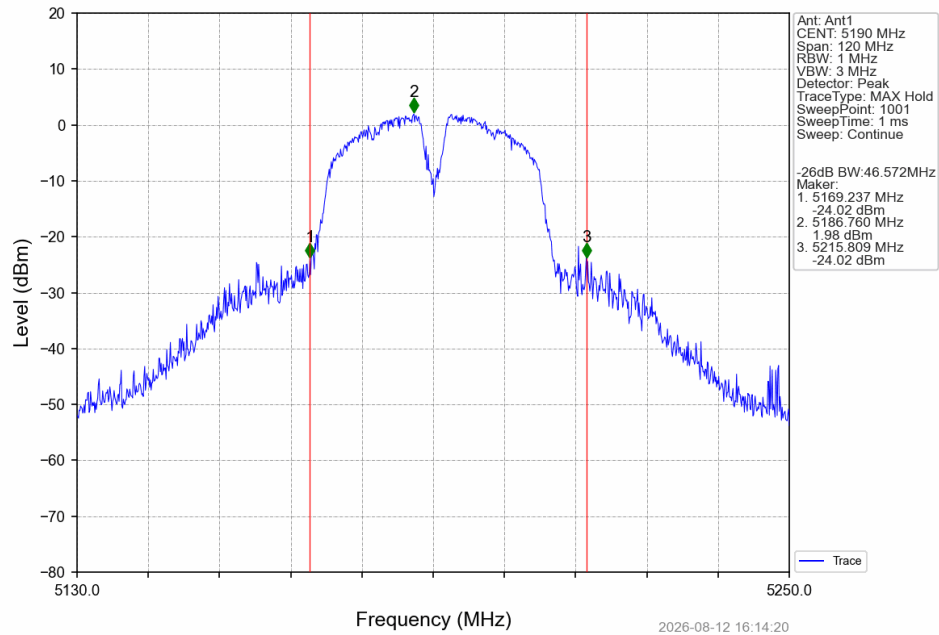


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

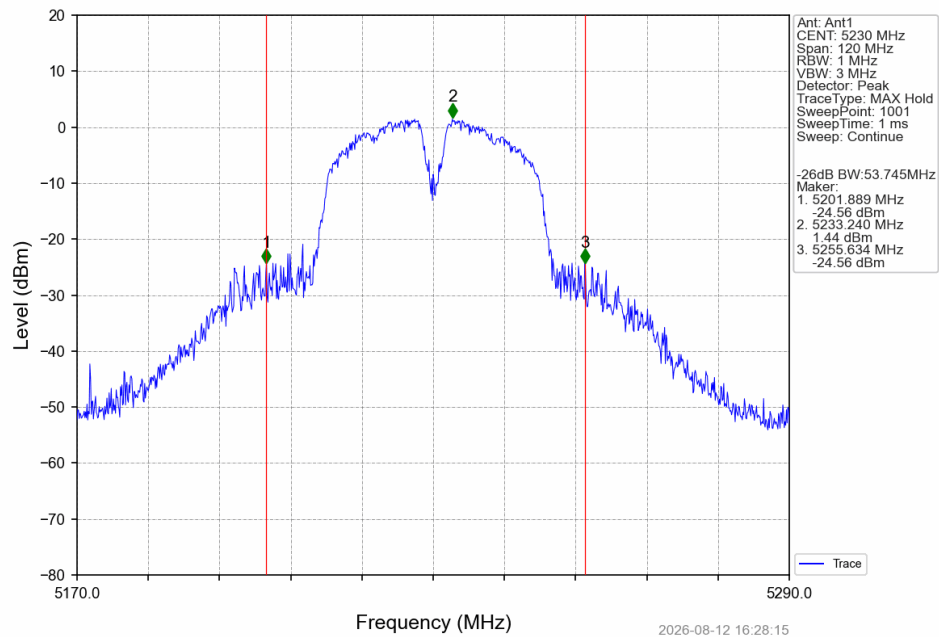




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

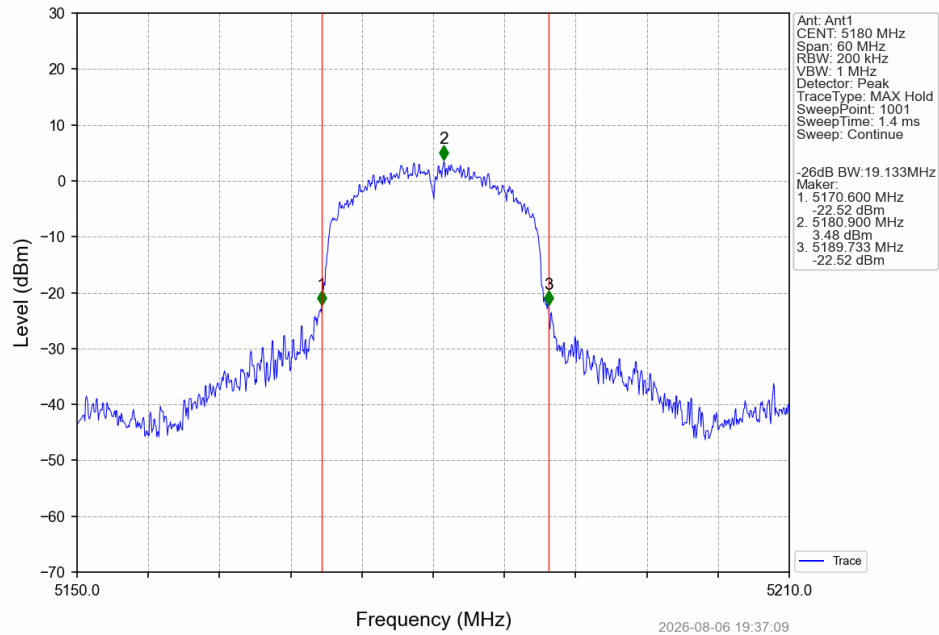


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

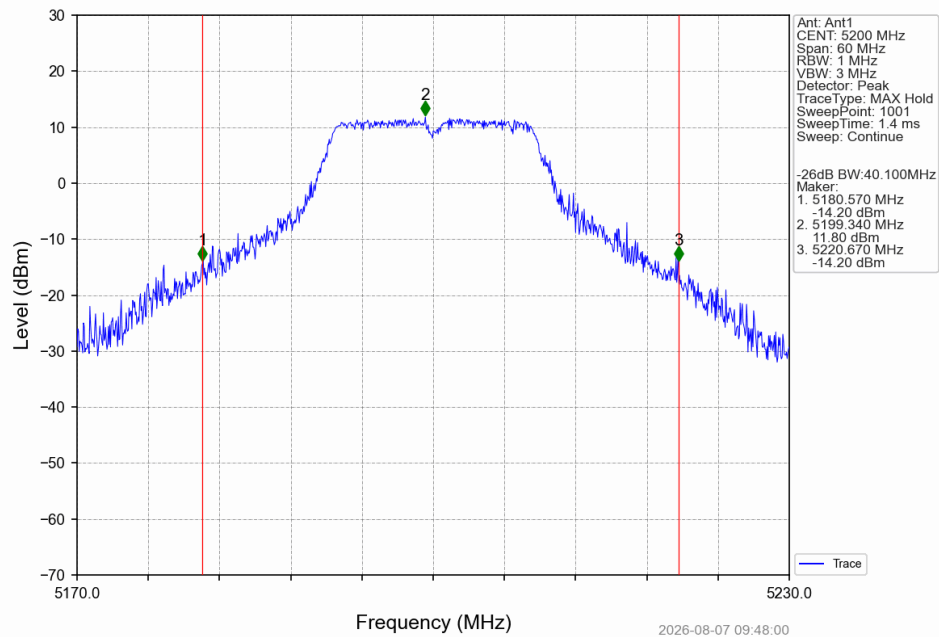




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

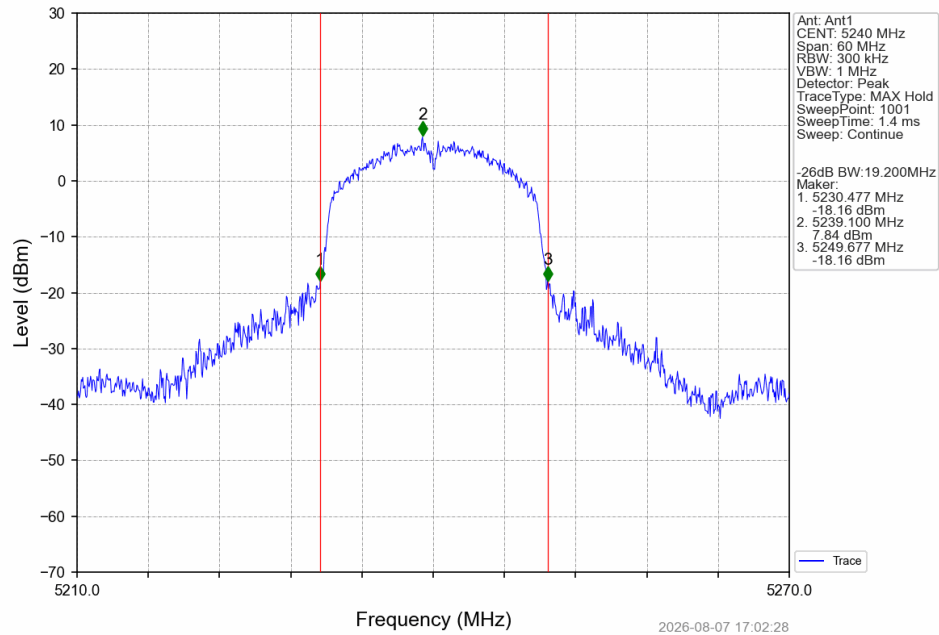


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

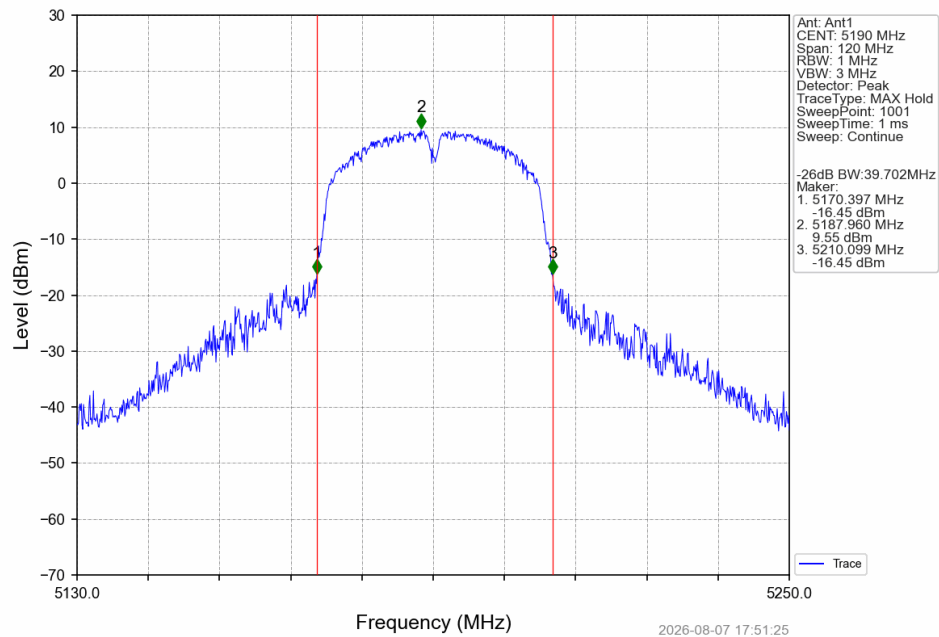


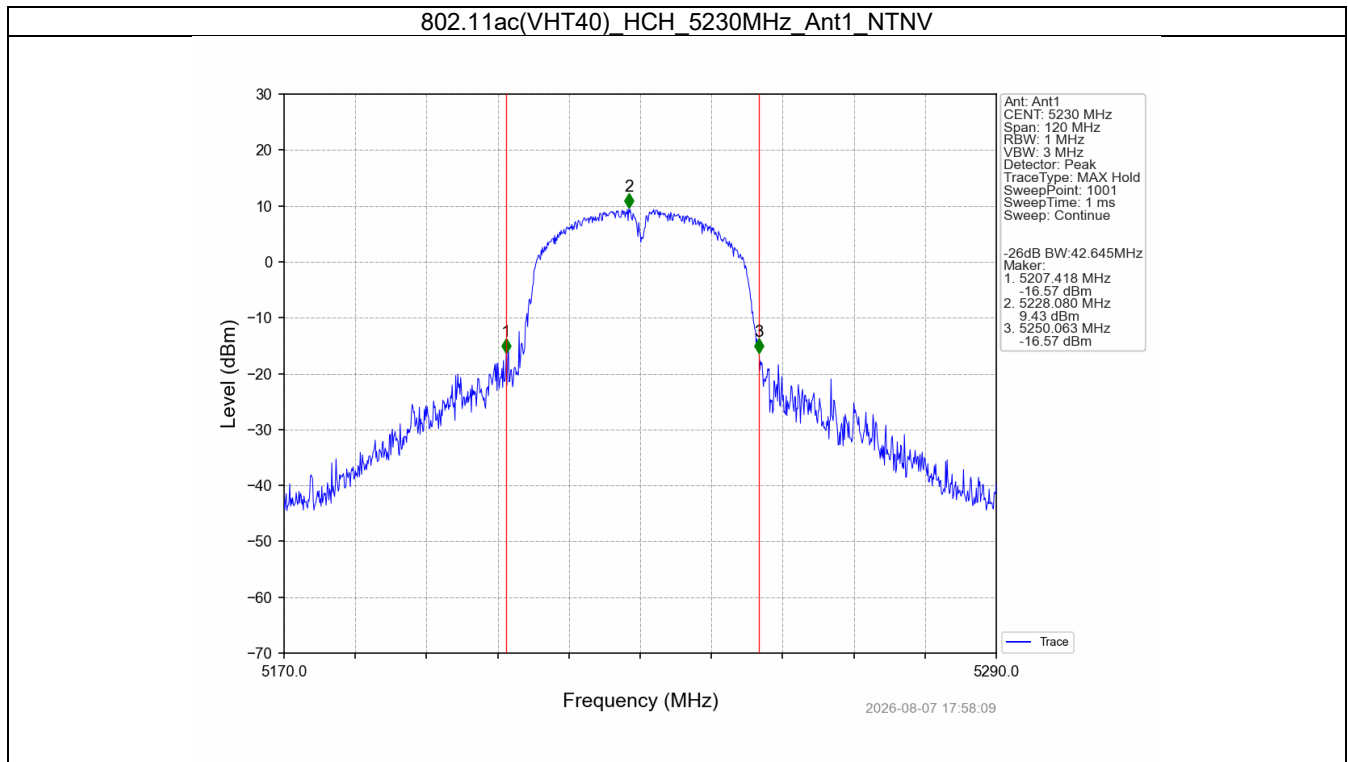


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV







3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

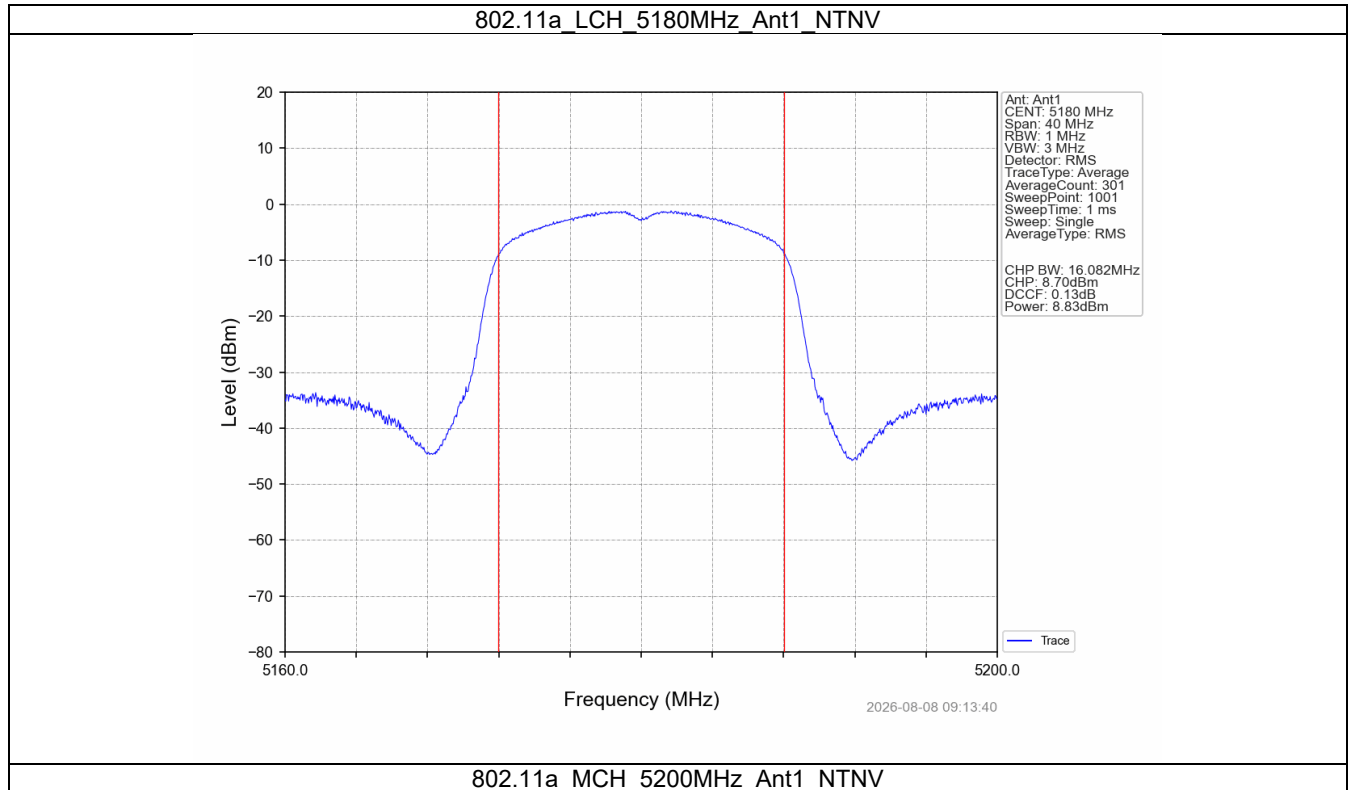
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	8.83	≤ 23.98	Pass
		5200	8.66	≤ 23.98	Pass
		5240	8.18	≤ 23.98	Pass
802.11n (HT20)	SISO	5180	14.40	≤ 23.98	Pass
		5200	9.62	≤ 23.98	Pass
		5240	9.63	≤ 23.98	Pass
802.11n (HT40)	SISO	5190	10.60	≤ 23.98	Pass
		5230	5.63	≤ 23.98	Pass
802.11ac (VHT20)	SISO	5180	14.81	≤ 23.98	Pass
		5200	14.95	≤ 23.98	Pass
		5240	14.85	≤ 23.98	Pass
802.11ac (VHT40)	SISO	5190	14.28	≤ 23.98	Pass
		5230	14.43	≤ 23.98	Pass

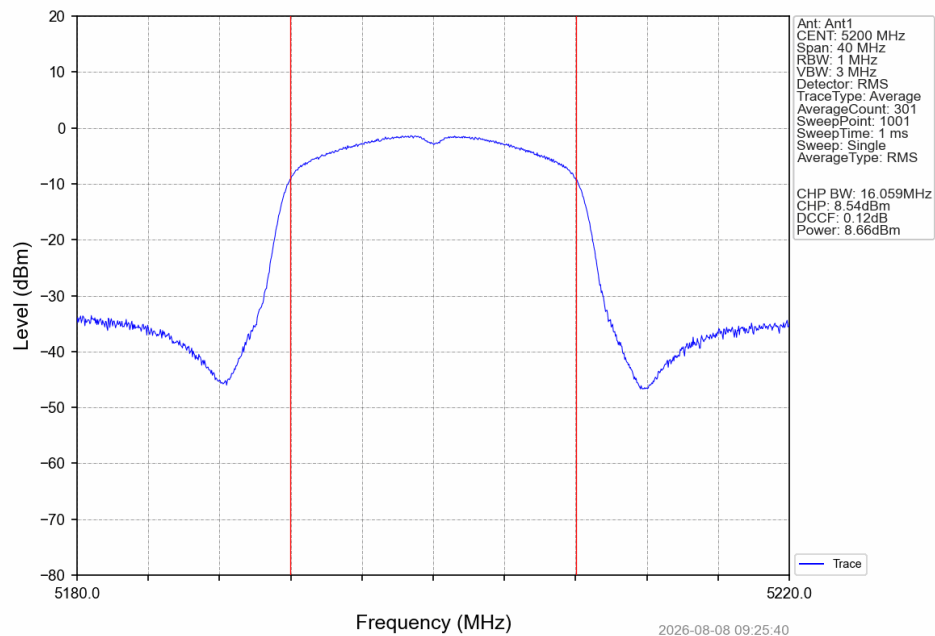
Note1: Antenna Gain: Ant1: 1.66dBi;



3.2 Test Graph

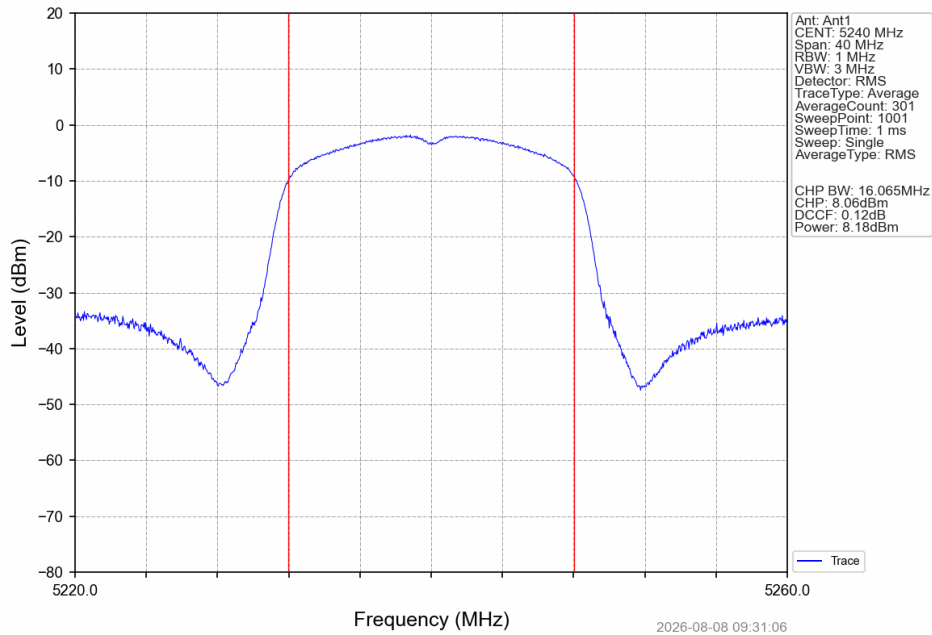
3.2.1 Power



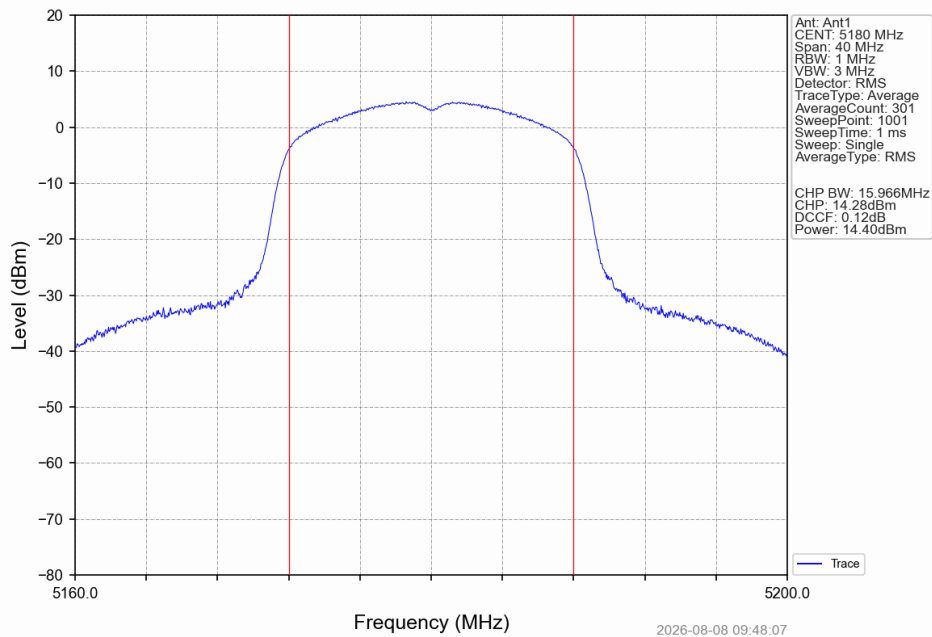




802.11a_HCH_5240MHz_Ant1_NTNV

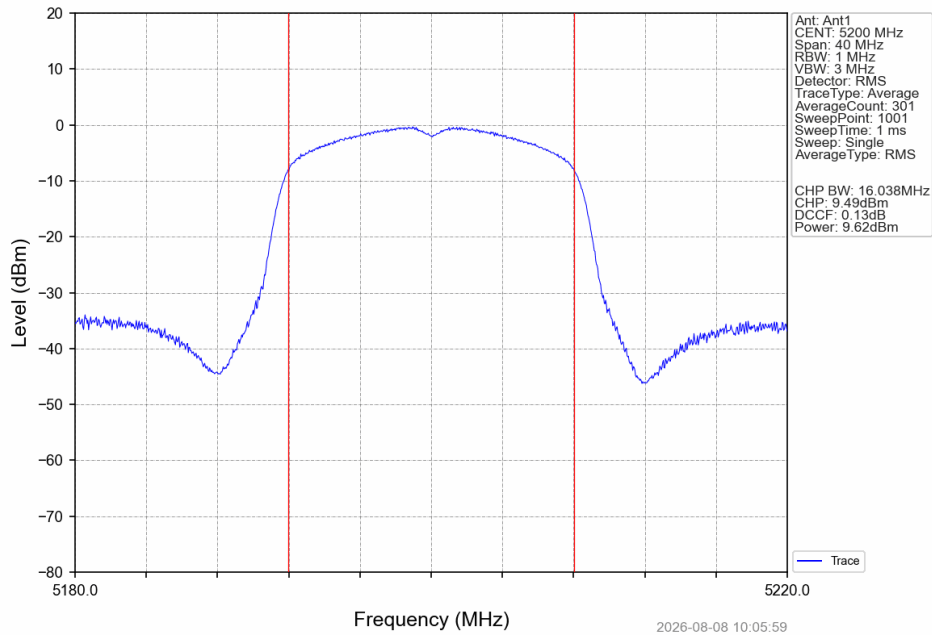


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

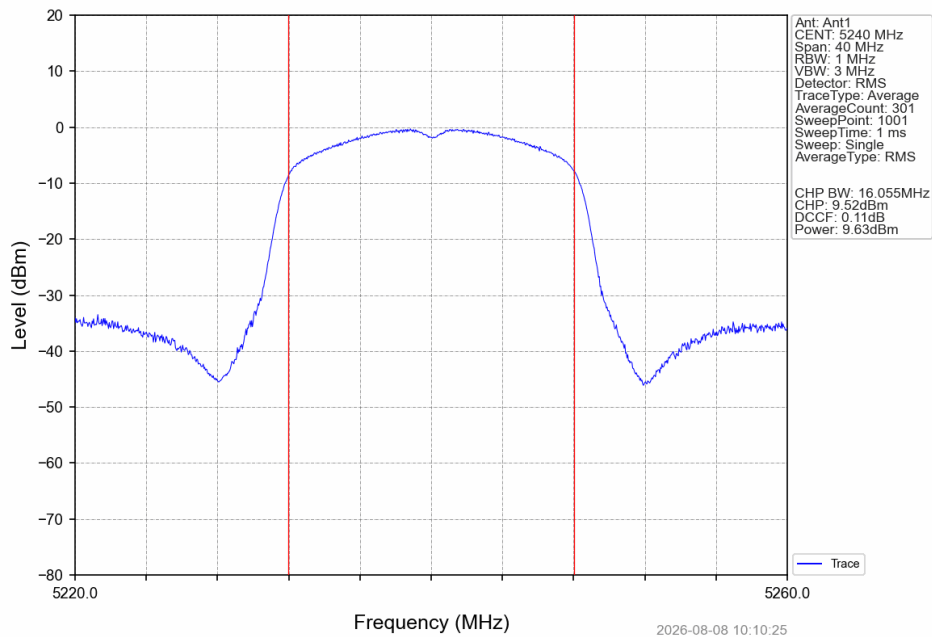




802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

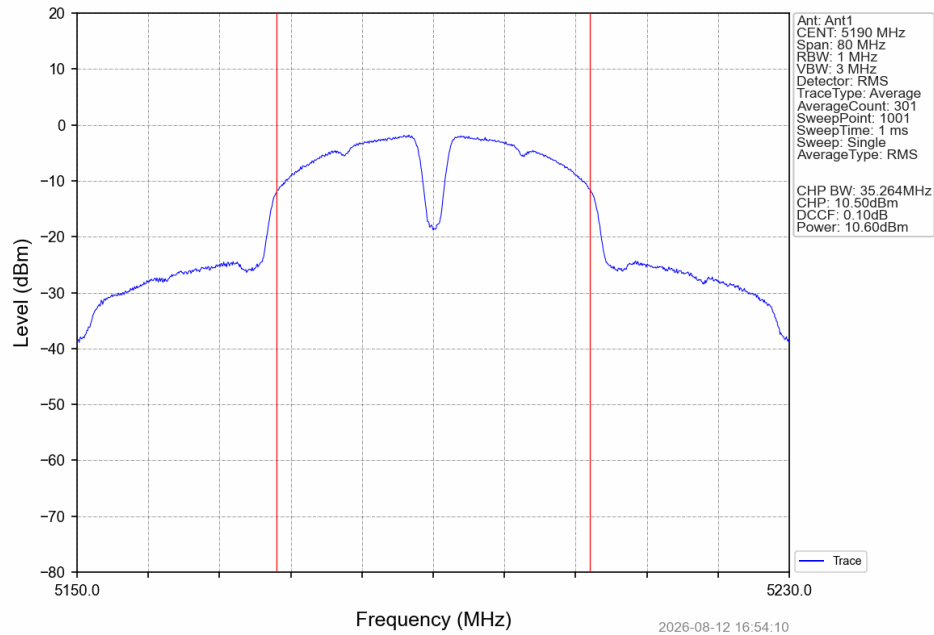


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

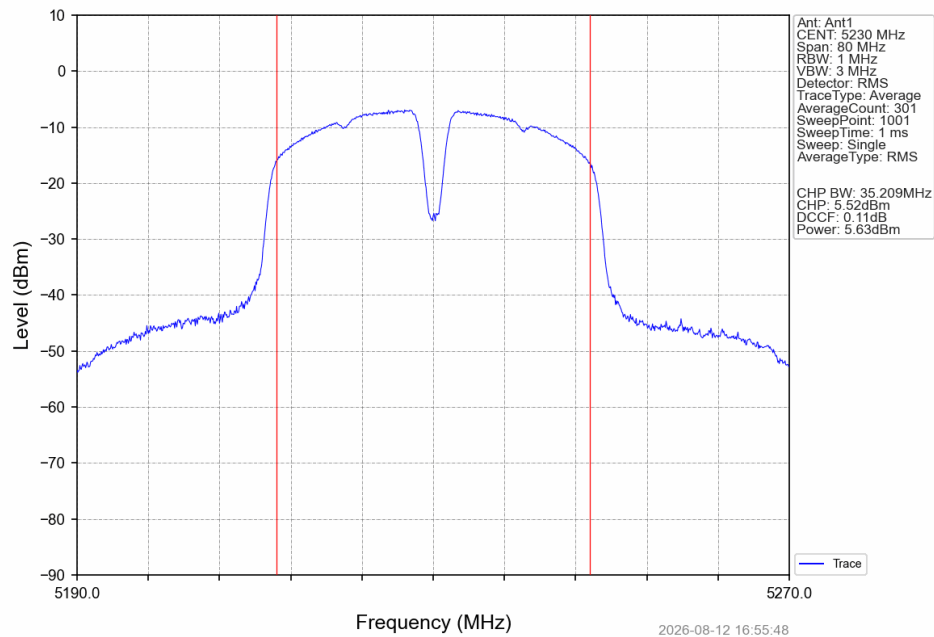




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

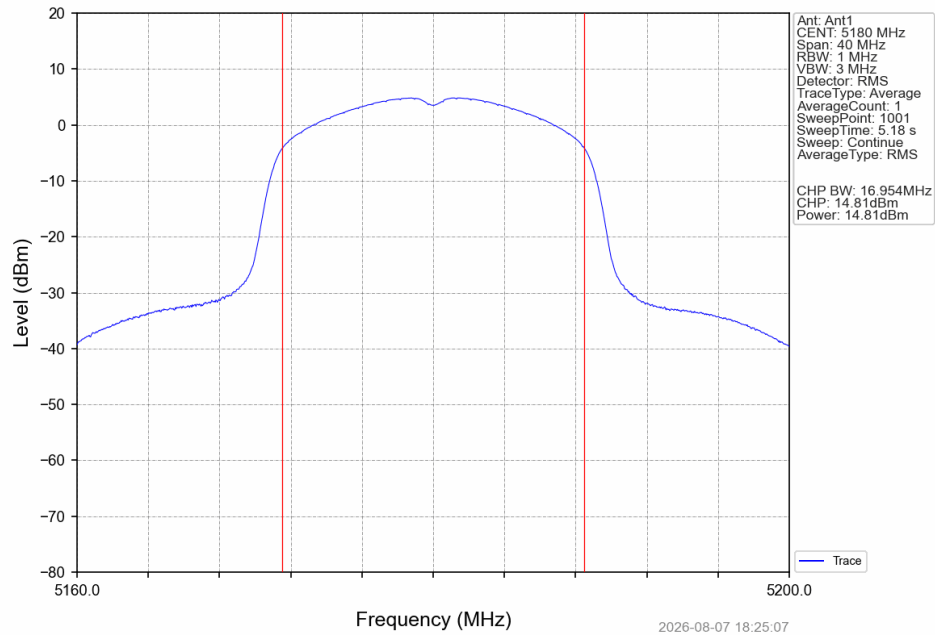


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

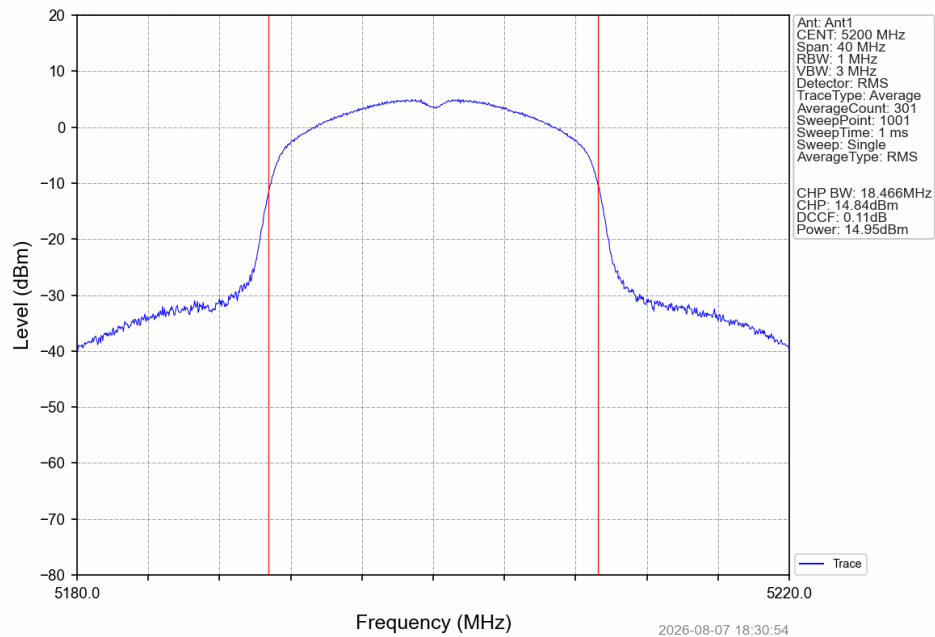




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

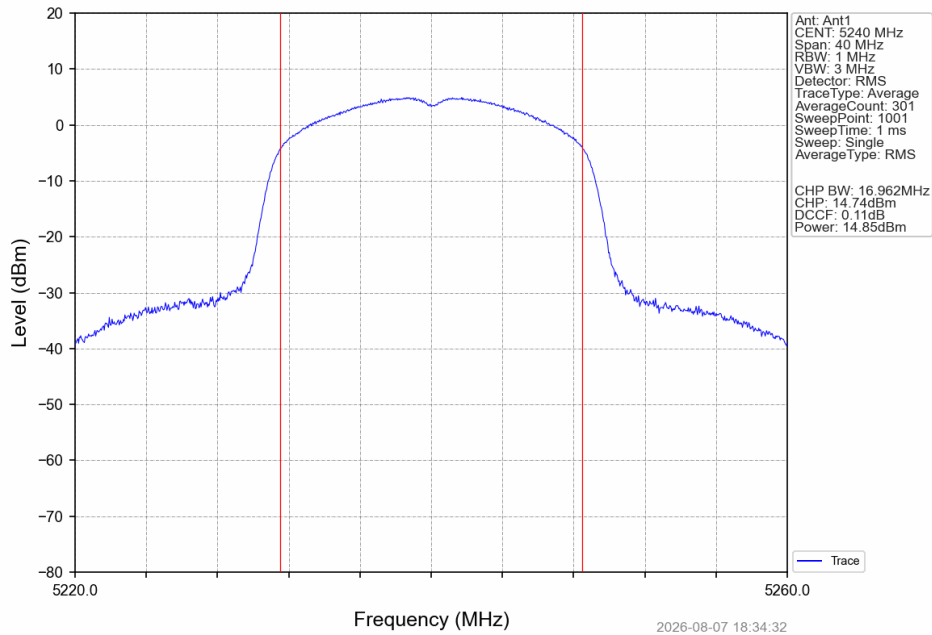


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

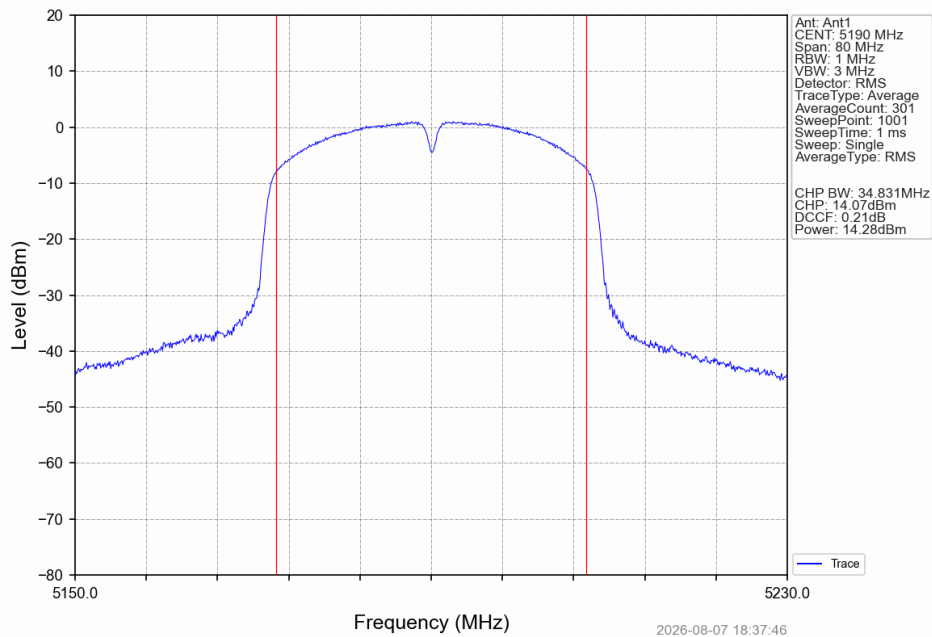


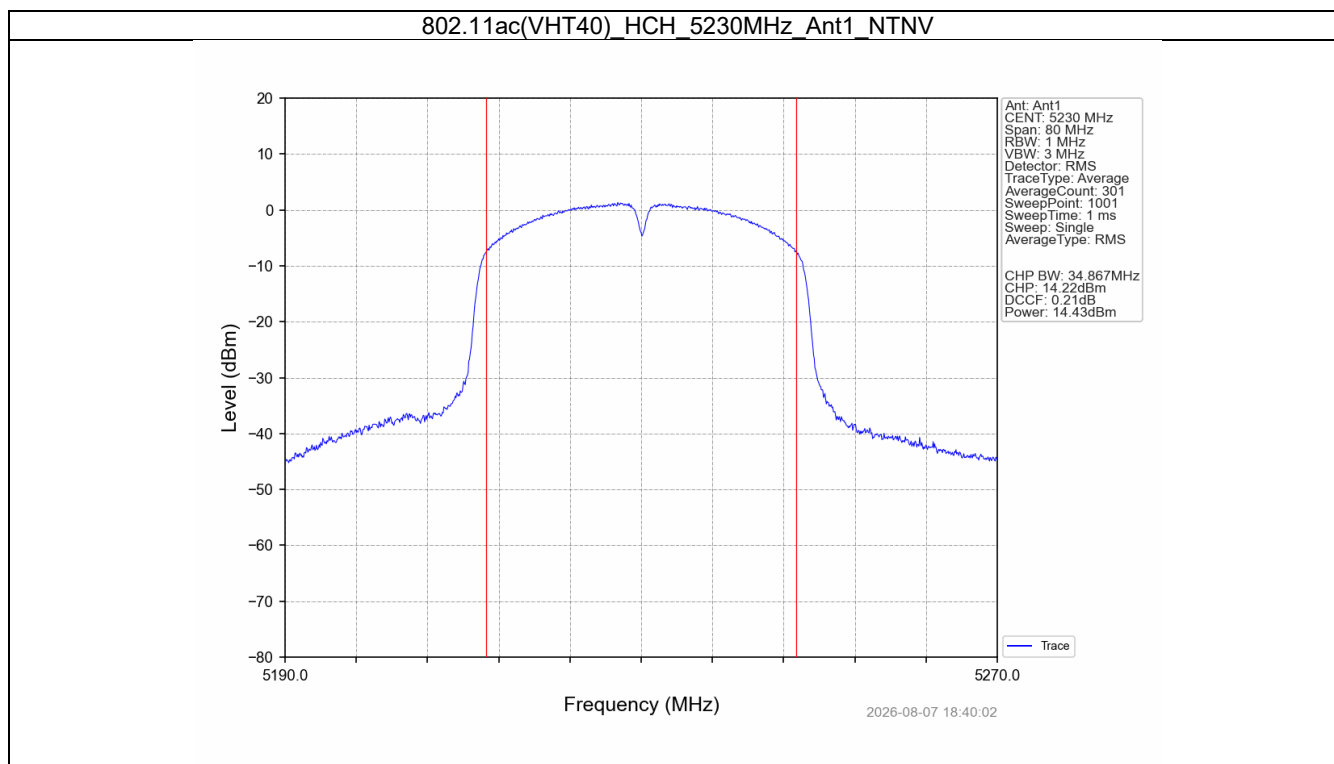


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV







4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

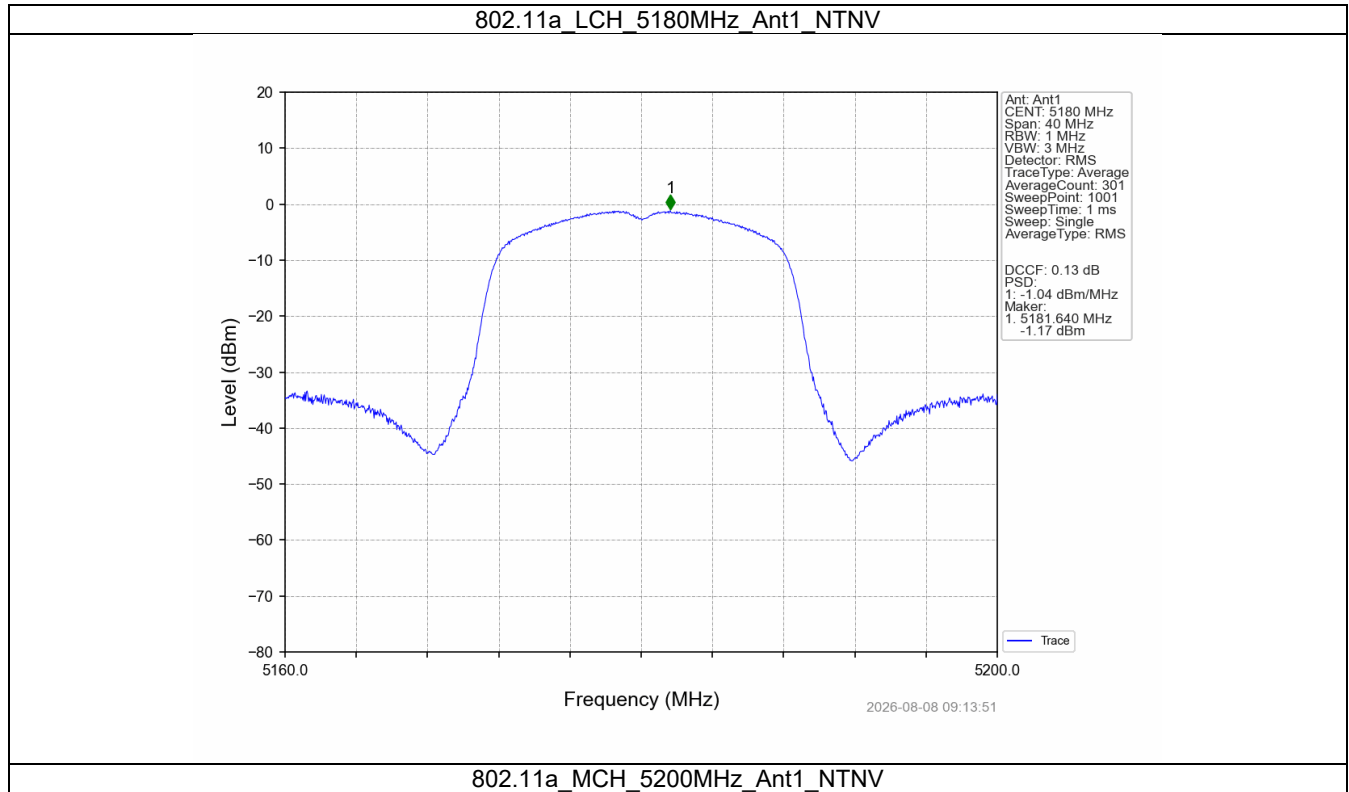
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-1.04	<=11	Pass
		5200	-1.15	<=11	Pass
		5240	-1.74	<=11	Pass
802.11n (HT20)	SISO	5180	4.77	<=11	Pass
		5200	-0.26	<=11	Pass
		5240	-0.29	<=11	Pass
802.11n (HT40)	SISO	5190	-1.84	<=11	Pass
		5230	-6.72	<=11	Pass
802.11ac (VHT20)	SISO	5180	4.87	<=11	Pass
		5200	5.31	<=11	Pass
		5240	5.19	<=11	Pass
802.11ac (VHT40)	SISO	5190	1.37	<=11	Pass
		5230	1.34	<=11	Pass

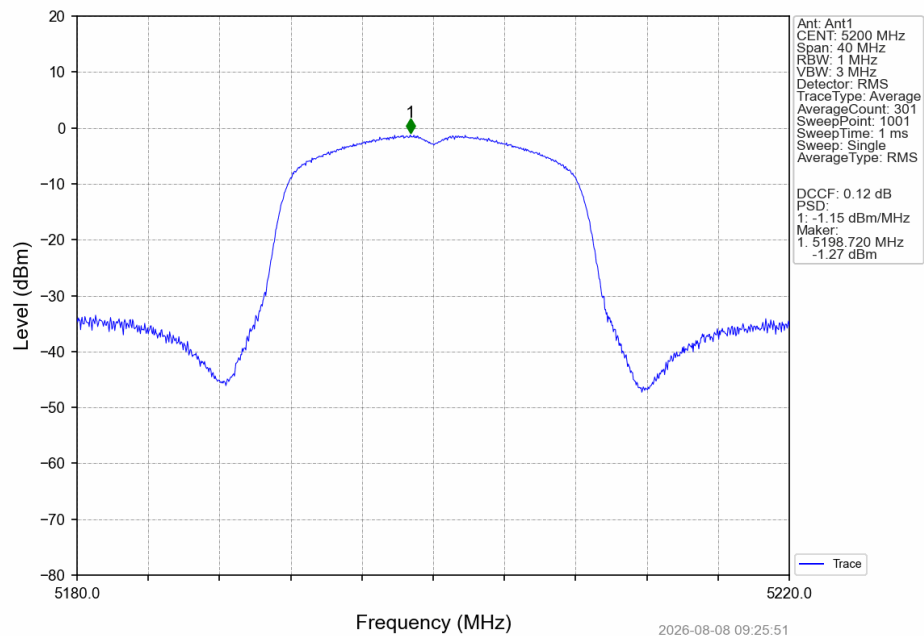
Note1: Antenna Gain: Ant1: 1.66dBi;



4.2 Test Graph

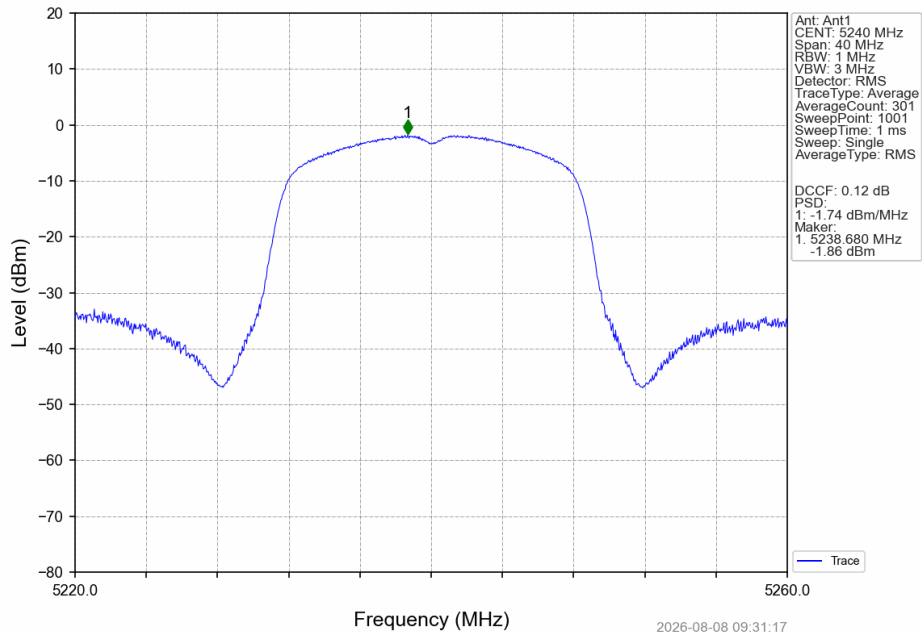
4.2.1 PSD



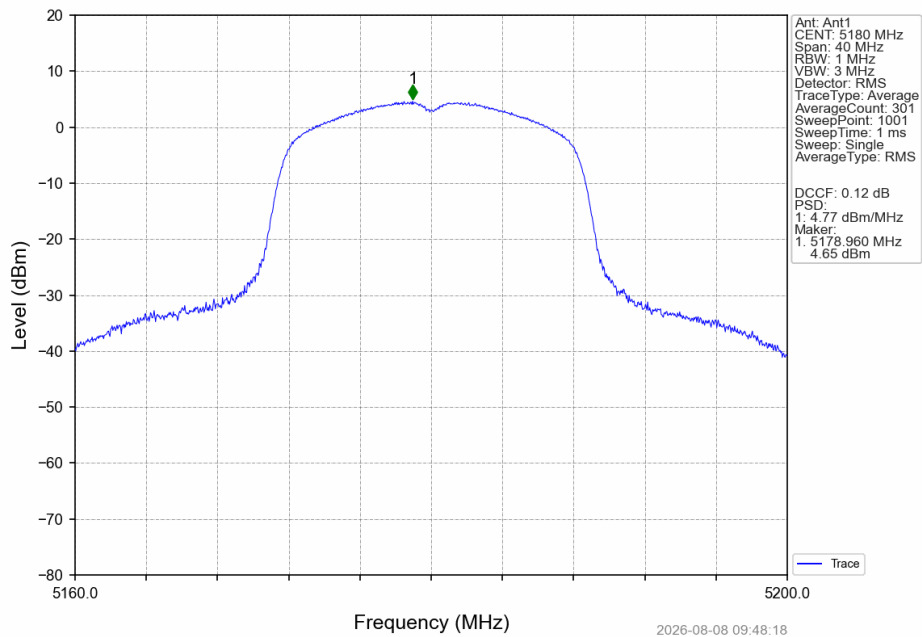




802.11a_HCH_5240MHz_Ant1_NTNV

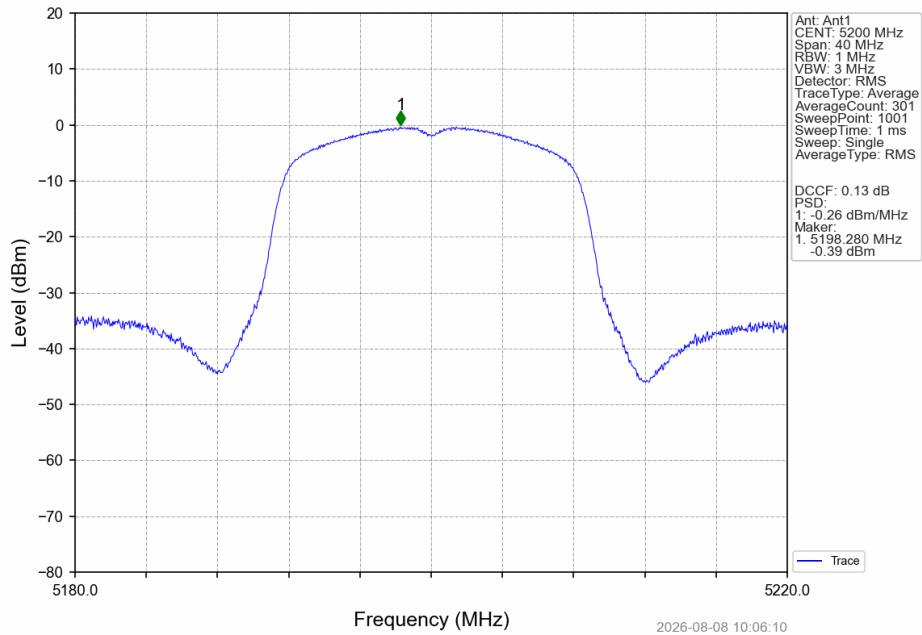


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

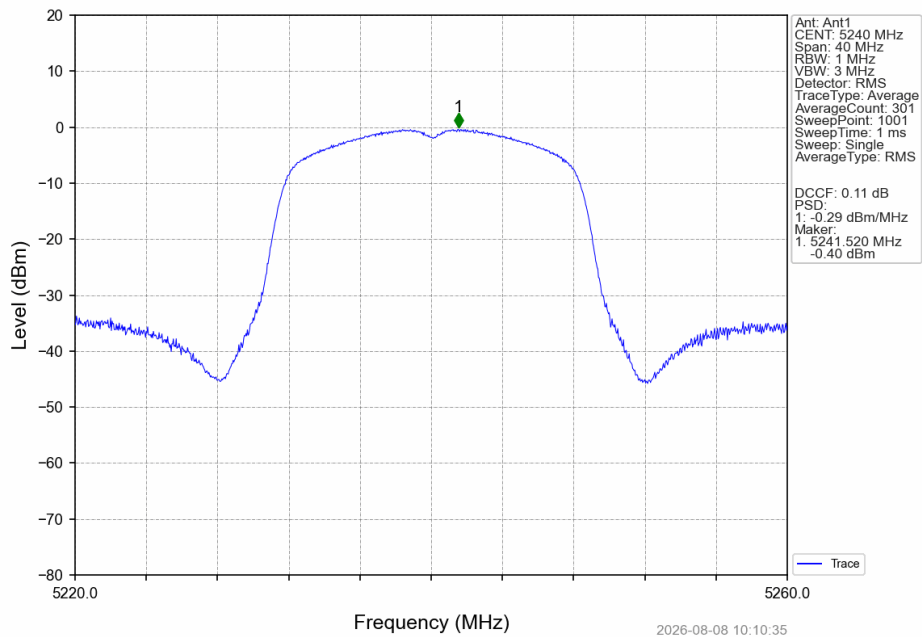




802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

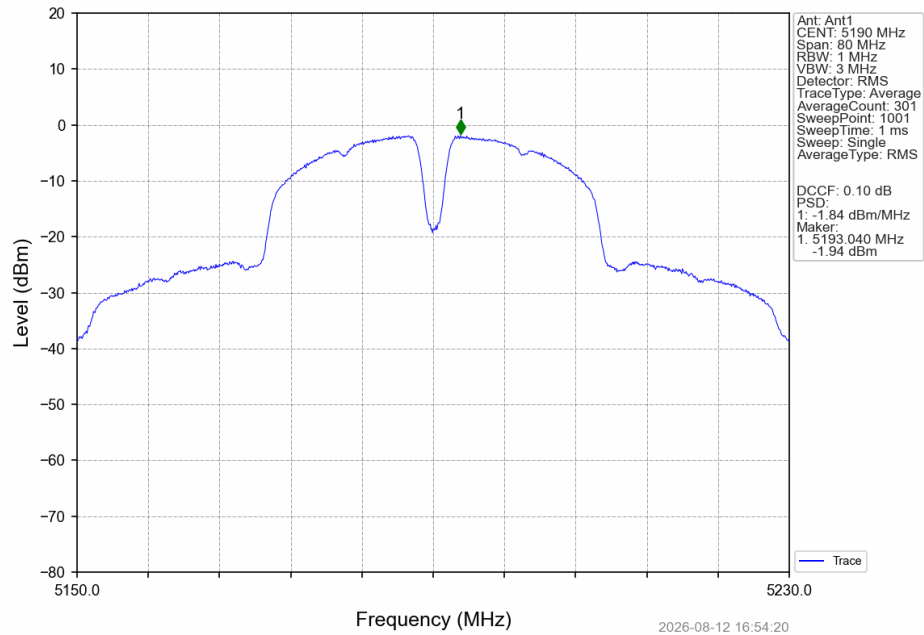


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

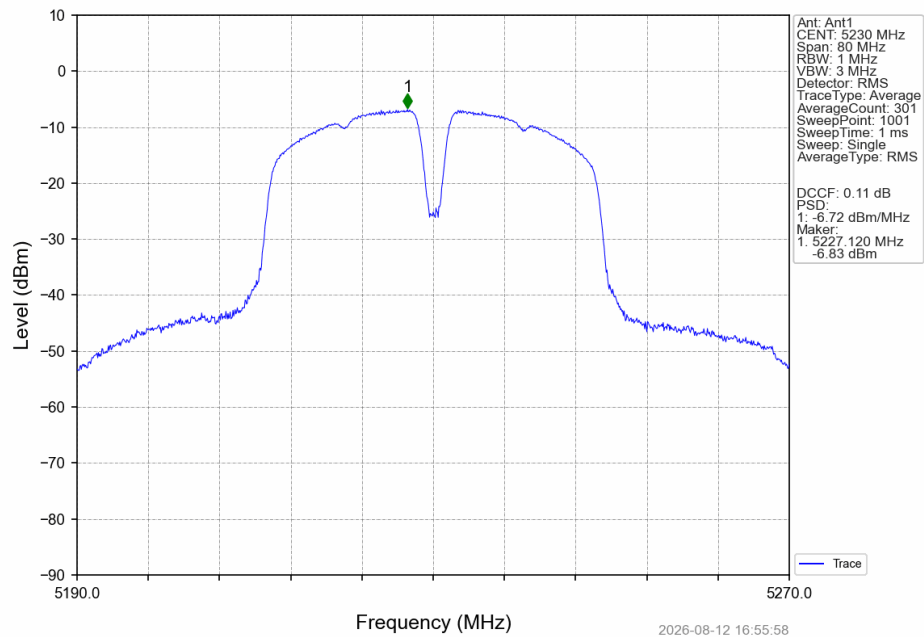




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

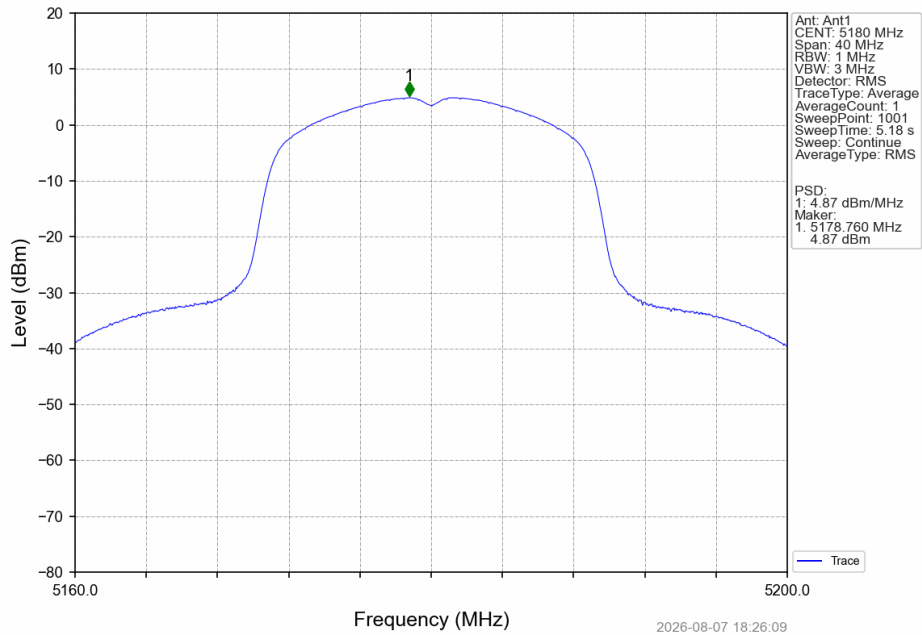


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

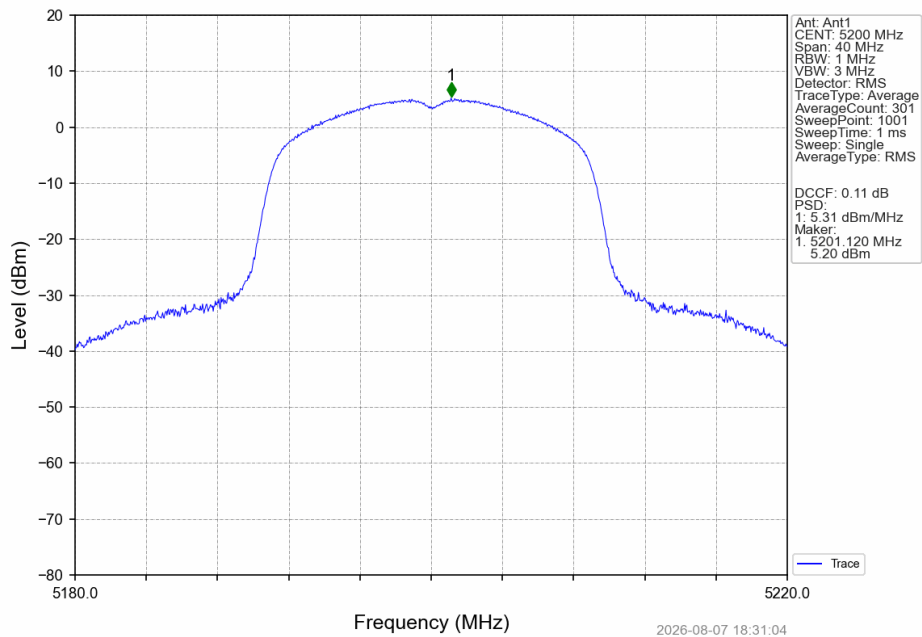




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

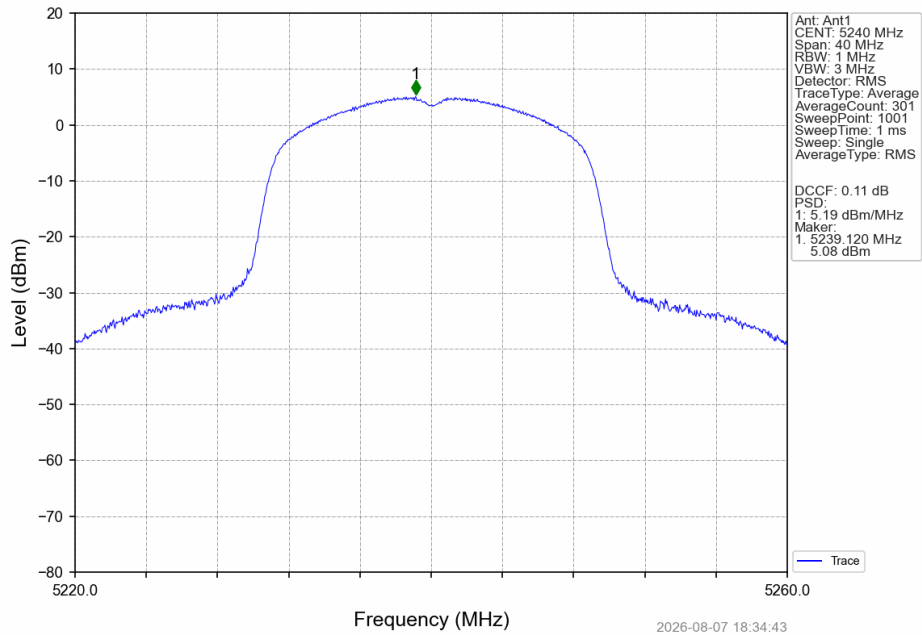


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

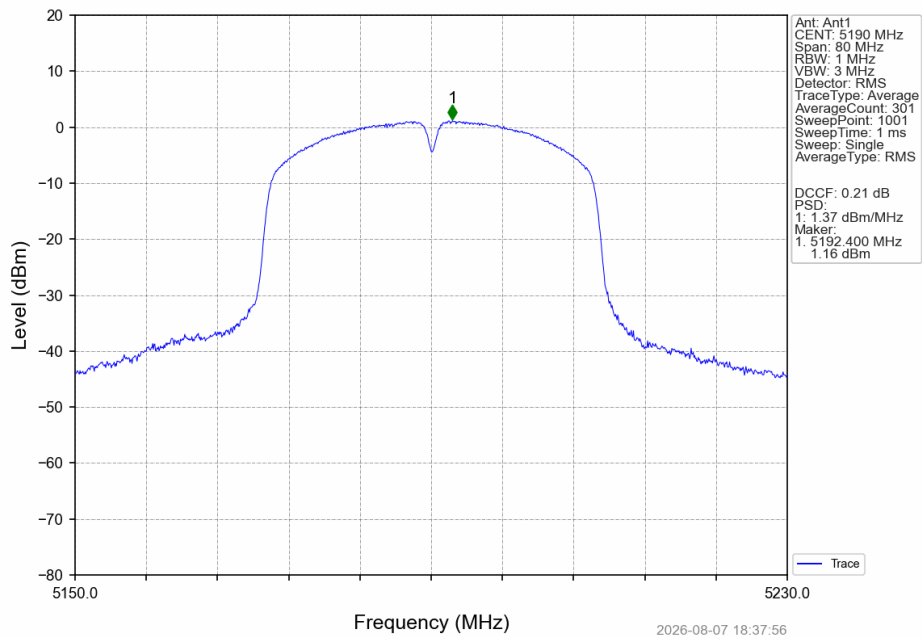


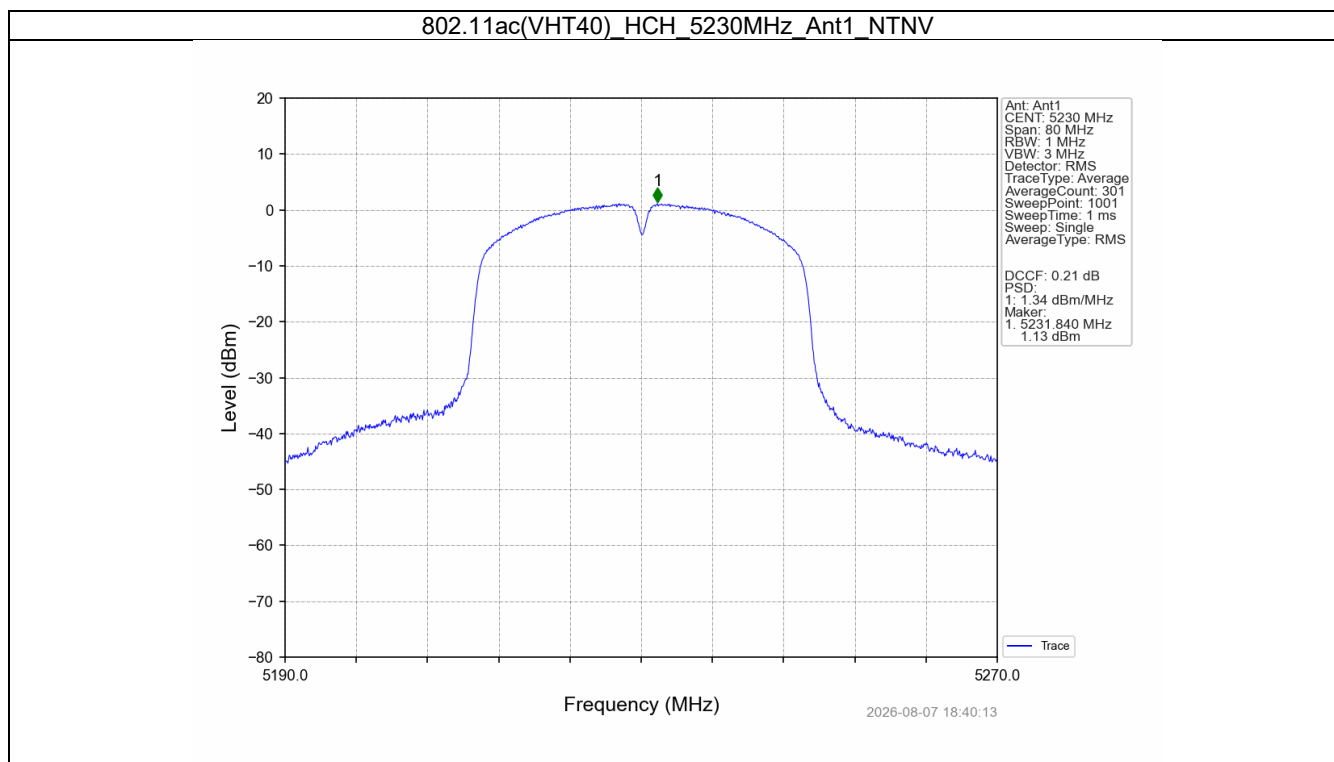


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV







5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	LV	5180.060	5150 to 5250	Pass
				NV	5180.120	5150 to 5250	Pass
				HV	5180.040	5150 to 5250	Pass
			-30	NV	5180.020	5150 to 5250	Pass
			-20	NV	5180.000	5150 to 5250	Pass
			-10	NV	5180.020	5150 to 5250	Pass
			0	NV	5180.060	5150 to 5250	Pass
			10	NV	5180.040	5150 to 5250	Pass
			30	NV	5180.040	5150 to 5250	Pass
			40	NV	5180.060	5150 to 5250	Pass
			50	NV	5180.020	5150 to 5250	Pass
		5200	20	LV	5200.060	5150 to 5250	Pass
				NV	5200.020	5150 to 5250	Pass
				HV	5200.060	5150 to 5250	Pass
			-30	NV	5200.040	5150 to 5250	Pass
			-20	NV	5200.060	5150 to 5250	Pass
			-10	NV	5200.020	5150 to 5250	Pass
			0	NV	5200.020	5150 to 5250	Pass
			10	NV	5200.000	5150 to 5250	Pass
			30	NV	5200.040	5150 to 5250	Pass
			40	NV	5200.020	5150 to 5250	Pass
			50	NV	5200.040	5150 to 5250	Pass
		5240	20	LV	5240.060	5150 to 5250	Pass
				NV	5240.040	5150 to 5250	Pass
				HV	5240.040	5150 to 5250	Pass
			-30	NV	5240.040	5150 to 5250	Pass
			-20	NV	5240.040	5150 to 5250	Pass
			-10	NV	5240.060	5150 to 5250	Pass
			0	NV	5240.060	5150 to 5250	Pass
			10	NV	5240.040	5150 to 5250	Pass
			30	NV	5240.020	5150 to 5250	Pass
			40	NV	5240.040	5150 to 5250	Pass
			50	NV	5240.020	5150 to 5250	Pass
802.11n (HT20)	SISO	5180	20	LV	5180.060	5150 to 5250	Pass
				NV	5180.020	5150 to 5250	Pass
				HV	5180.040	5150 to 5250	Pass
			-30	NV	5180.020	5150 to 5250	Pass
			-20	NV	5180.000	5150 to 5250	Pass
			-10	NV	5180.100	5150 to 5250	Pass
			0	NV	5180.020	5150 to 5250	Pass
			10	NV	5180.040	5150 to 5250	Pass



			30	NV	5179.960	5150 to 5250	Pass
			40	NV	5180.080	5150 to 5250	Pass
			50	NV	5180.020	5150 to 5250	Pass
		5200	20	LV	5199.980	5150 to 5250	Pass
				NV	5200.000	5150 to 5250	Pass
				HV	5200.020	5150 to 5250	Pass
			-30	NV	5200.000	5150 to 5250	Pass
			-20	NV	5199.980	5150 to 5250	Pass
			-10	NV	5200.000	5150 to 5250	Pass
			0	NV	5200.000	5150 to 5250	Pass
			10	NV	5200.020	5150 to 5250	Pass
			30	NV	5200.040	5150 to 5250	Pass
			40	NV	5200.040	5150 to 5250	Pass
			50	NV	5200.040	5150 to 5250	Pass
		5240	20	LV	5240.040	5150 to 5250	Pass
				NV	5240.080	5150 to 5250	Pass
				HV	5240.040	5150 to 5250	Pass
			-30	NV	5240.040	5150 to 5250	Pass
			-20	NV	5240.040	5150 to 5250	Pass
			-10	NV	5240.060	5150 to 5250	Pass
			0	NV	5240.060	5150 to 5250	Pass
			10	NV	5240.060	5150 to 5250	Pass
			30	NV	5240.080	5150 to 5250	Pass
			40	NV	5240.060	5150 to 5250	Pass
			50	NV	5240.020	5150 to 5250	Pass
802.11n (HT40)	SISO	5190	20	LV	5190.080	5150 to 5250	Pass
				NV	5190.480	5150 to 5250	Pass
				HV	5190.200	5150 to 5250	Pass
			-30	NV	5190.000	5150 to 5250	Pass
			-20	NV	5190.160	5150 to 5250	Pass
			-10	NV	5190.200	5150 to 5250	Pass
			0	NV	5190.040	5150 to 5250	Pass
			10	NV	5190.240	5150 to 5250	Pass
			30	NV	5189.880	5150 to 5250	Pass
			40	NV	5190.240	5150 to 5250	Pass
			50	NV	5190.280	5150 to 5250	Pass
		5230	20	LV	5229.760	5150 to 5250	Pass
				NV	5229.760	5150 to 5250	Pass
				HV	5229.920	5150 to 5250	Pass
			-30	NV	5230.040	5150 to 5250	Pass
			-20	NV	5229.960	5150 to 5250	Pass
			-10	NV	5229.880	5150 to 5250	Pass
			0	NV	5230.120	5150 to 5250	Pass
			10	NV	5229.560	5150 to 5250	Pass
			30	NV	5229.720	5150 to 5250	Pass
			40	NV	5229.840	5150 to 5250	Pass
			50	NV	5229.960	5150 to 5250	Pass
802.11ac (VHT20)	SISO	5180	20	LV	5180.260	5150 to 5250	Pass
				NV	5180.020	5150 to 5250	Pass
				HV	5180.160	5150 to 5250	Pass
			-30	NV	5180.120	5150 to 5250	Pass
			-20	NV	5179.960	5150 to 5250	Pass
			-10	NV	5180.140	5150 to 5250	Pass
			0	NV	5180.140	5150 to 5250	Pass



			10	NV	5180.140	5150 to 5250	Pass
			30	NV	5180.080	5150 to 5250	Pass
			40	NV	5180.120	5150 to 5250	Pass
			50	NV	5179.920	5150 to 5250	Pass
		5200	20	LV	5200.060	5150 to 5250	Pass
				NV	5200.060	5150 to 5250	Pass
				HV	5200.100	5150 to 5250	Pass
			-30	NV	5199.980	5150 to 5250	Pass
			-20	NV	5200.040	5150 to 5250	Pass
			-10	NV	5200.040	5150 to 5250	Pass
			0	NV	5200.080	5150 to 5250	Pass
			10	NV	5200.020	5150 to 5250	Pass
			30	NV	5200.020	5150 to 5250	Pass
			40	NV	5199.980	5150 to 5250	Pass
			50	NV	5200.060	5150 to 5250	Pass
		5240	20	LV	5240.020	5150 to 5250	Pass
				NV	5240.120	5150 to 5250	Pass
				HV	5239.840	5150 to 5250	Pass
			-30	NV	5239.900	5150 to 5250	Pass
			-20	NV	5240.000	5150 to 5250	Pass
			-10	NV	5239.940	5150 to 5250	Pass
			0	NV	5240.140	5150 to 5250	Pass
			10	NV	5240.040	5150 to 5250	Pass
			30	NV	5240.100	5150 to 5250	Pass
			40	NV	5240.160	5150 to 5250	Pass
			50	NV	5240.180	5150 to 5250	Pass
802.11ac (VHT40)	SISO	5190	20	LV	5190.040	5150 to 5250	Pass
				NV	5190.080	5150 to 5250	Pass
				HV	5190.200	5150 to 5250	Pass
			-30	NV	5190.520	5150 to 5250	Pass
			-20	NV	5190.360	5150 to 5250	Pass
			-10	NV	5190.200	5150 to 5250	Pass
			0	NV	5190.080	5150 to 5250	Pass
			10	NV	5190.280	5150 to 5250	Pass
			30	NV	5190.120	5150 to 5250	Pass
			40	NV	5190.040	5150 to 5250	Pass
			50	NV	5190.080	5150 to 5250	Pass
		5230	20	LV	5229.920	5150 to 5250	Pass
				NV	5230.240	5150 to 5250	Pass
				HV	5229.840	5150 to 5250	Pass
			-30	NV	5229.960	5150 to 5250	Pass
			-20	NV	5229.880	5150 to 5250	Pass
			-10	NV	5229.920	5150 to 5250	Pass
			0	NV	5230.160	5150 to 5250	Pass
			10	NV	5230.000	5150 to 5250	Pass
			30	NV	5229.800	5150 to 5250	Pass
			40	NV	5229.960	5150 to 5250	Pass
			50	NV	5229.880	5150 to 5250	Pass



6. Band Edge

6.1 Test Result

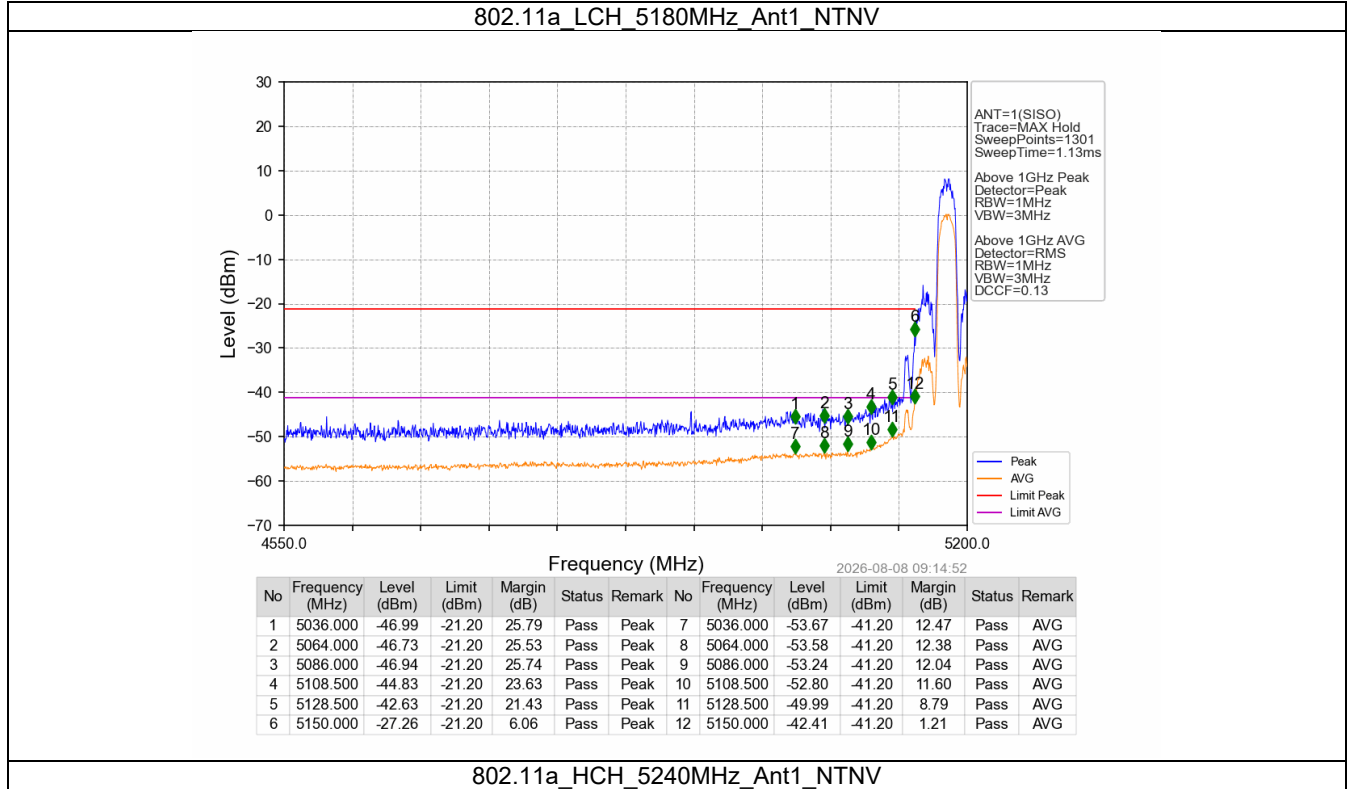
6.1.1 BandEdge

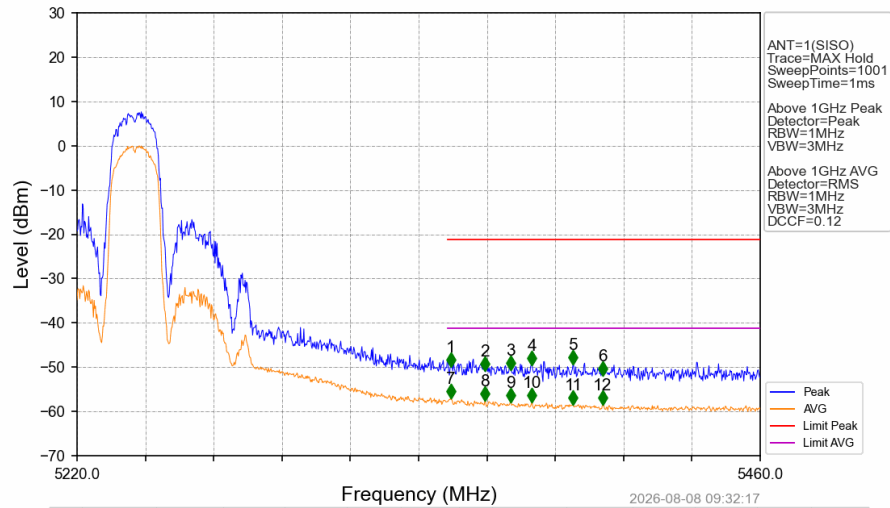
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5180	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
802.11ac (VHT20)	SISO	5180	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11ac (VHT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass



6.2 Test Graph

6.2.1 BandEdge

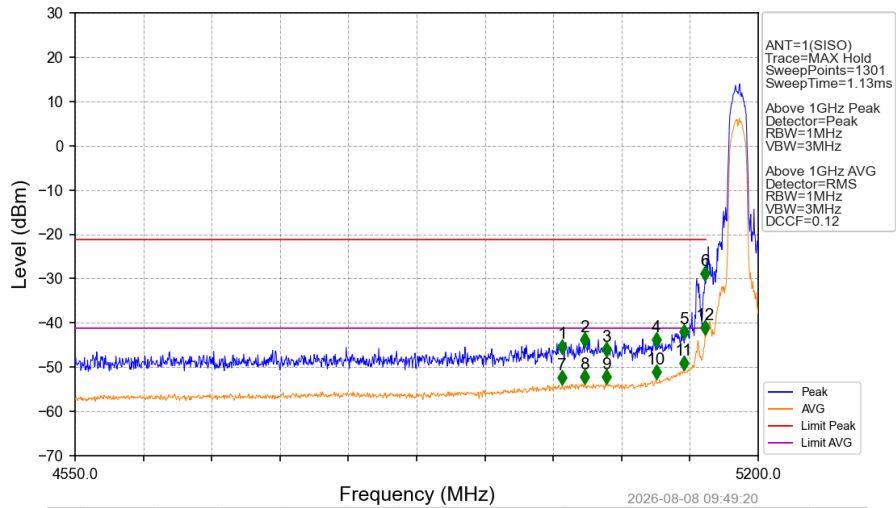




No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5351.280	-49.89	-21.20	28.69	Pass	Peak	7	5351.280	-57.00	-41.20	15.80	Pass	AVG
2	5363.280	-50.89	-21.20	29.69	Pass	Peak	8	5363.280	-57.56	-41.20	16.36	Pass	AVG
3	5372.400	-50.61	-21.20	29.41	Pass	Peak	9	5372.400	-57.93	-41.20	16.73	Pass	AVG
4	5379.840	-49.46	-21.20	28.26	Pass	Peak	10	5379.840	-57.91	-41.20	16.71	Pass	AVG
5	5394.240	-49.40	-21.20	28.20	Pass	Peak	11	5394.240	-58.45	-41.20	17.25	Pass	AVG
6	5404.560	-51.85	-21.20	30.65	Pass	Peak	12	5404.560	-58.46	-41.20	17.26	Pass	AVG

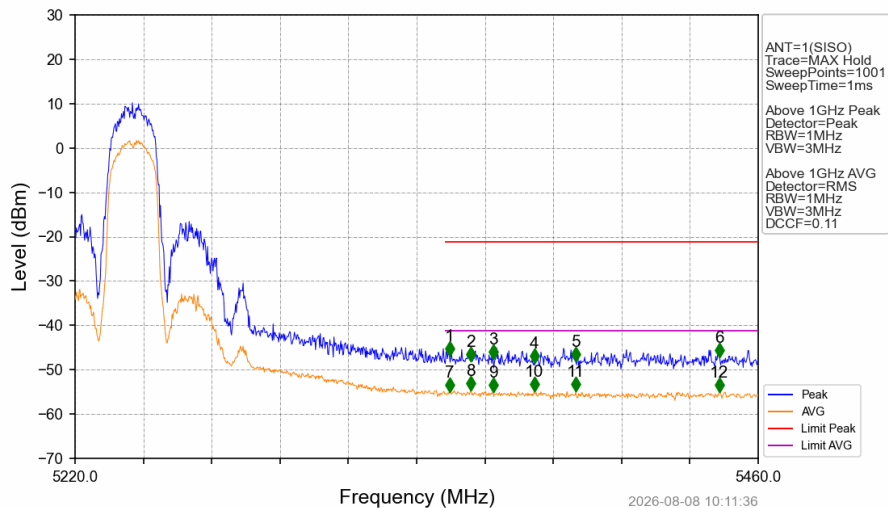


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5013.500	-46.91	-21.20	25.71	Pass	Peak	7	5013.500	-53.90	-41.20	12.70	Pass	AVG
2	5035.000	-45.38	-21.20	24.18	Pass	Peak	8	5035.000	-53.81	-41.20	12.61	Pass	AVG
3	5055.500	-47.58	-21.20	26.38	Pass	Peak	9	5055.500	-53.75	-41.20	12.55	Pass	AVG
4	5103.000	-45.38	-21.20	24.18	Pass	Peak	10	5103.000	-52.60	-41.20	11.40	Pass	AVG
5	5129.000	-43.47	-21.20	22.27	Pass	Peak	11	5129.000	-50.62	-41.20	9.42	Pass	AVG
6	5149.500	-30.43	-21.20	9.23	Pass	Peak	12	5149.500	-42.70	-41.20	1.50	Pass	AVG

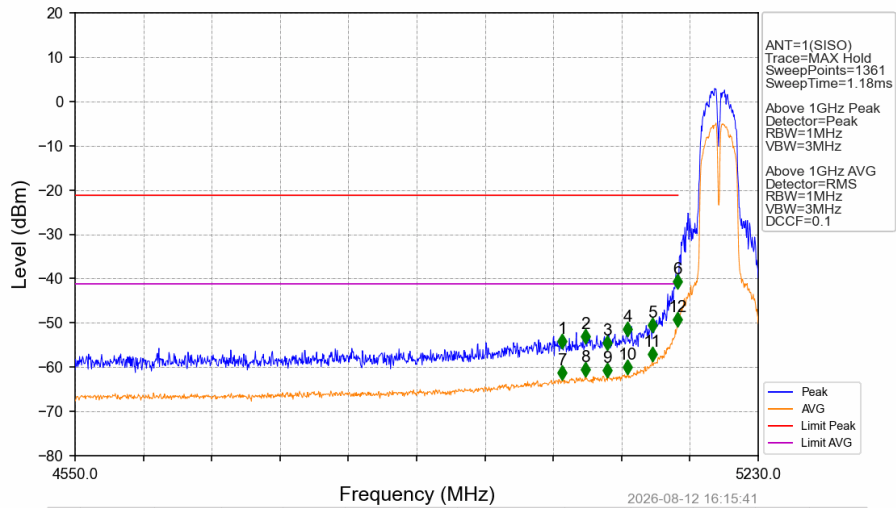
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5351.520	-46.82	-21.20	25.62	Pass	Peak	7	5351.520	-55.08	-41.20	13.88	Pass	AVG
2	5358.960	-48.02	-21.20	26.82	Pass	Peak	8	5358.960	-54.70	-41.20	13.50	Pass	AVG
3	5366.880	-47.52	-21.20	26.32	Pass	Peak	9	5366.880	-55.03	-41.20	13.83	Pass	AVG
4	5381.280	-48.41	-21.20	27.21	Pass	Peak	10	5381.280	-54.80	-41.20	13.60	Pass	AVG
5	5395.920	-48.17	-21.20	26.97	Pass	Peak	11	5395.920	-54.82	-41.20	13.62	Pass	AVG
6	5446.320	-47.21	-21.20	26.01	Pass	Peak	12	5446.320	-55.06	-41.20	13.86	Pass	AVG

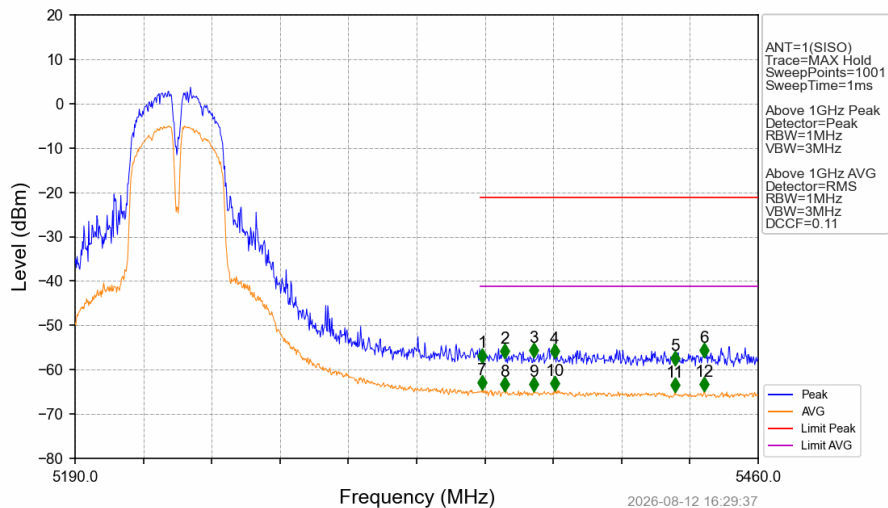


802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5035.000	-55.75	-21.20	34.55	Pass	Peak	7	5035.000	-62.76	-41.20	21.56	Pass	AVG
2	5058.000	-54.61	-21.20	33.41	Pass	Peak	8	5058.000	-62.02	-41.20	20.82	Pass	AVG
3	5079.500	-56.13	-21.20	34.93	Pass	Peak	9	5079.500	-62.27	-41.20	21.07	Pass	AVG
4	5100.000	-52.96	-21.20	31.76	Pass	Peak	10	5100.000	-61.48	-41.20	20.28	Pass	AVG
5	5124.500	-52.15	-21.20	30.95	Pass	Peak	11	5124.500	-58.62	-41.20	17.42	Pass	AVG
6	5150.000	-42.18	-21.20	20.98	Pass	Peak	12	5150.000	-50.77	-41.20	9.57	Pass	AVG

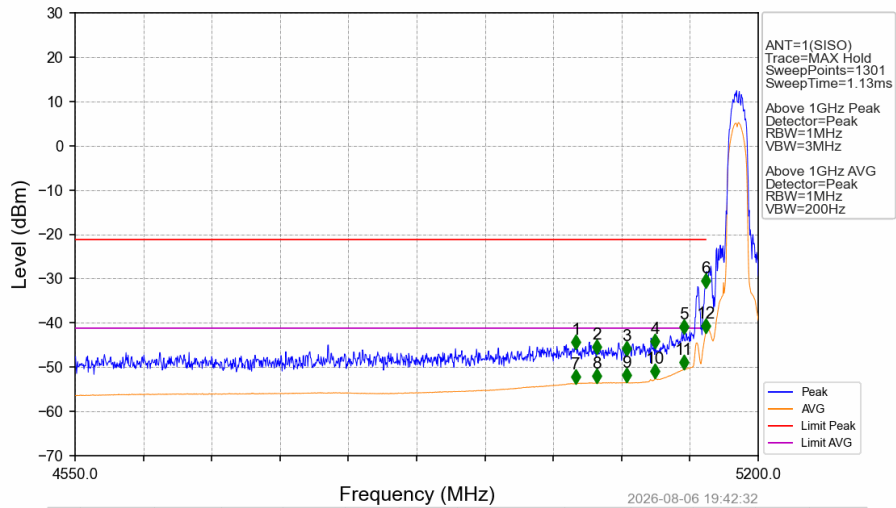
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5350.920	-58.36	-21.20	37.16	Pass	Peak	7	5350.920	-64.45	-41.20	23.25	Pass	AVG
2	5359.830	-57.40	-21.20	36.20	Pass	Peak	8	5359.830	-64.78	-41.20	23.58	Pass	AVG
3	5371.170	-57.16	-21.20	35.96	Pass	Peak	9	5371.170	-64.85	-41.20	23.65	Pass	AVG
4	5379.540	-57.31	-21.20	36.11	Pass	Peak	10	5379.540	-64.59	-41.20	23.39	Pass	AVG
5	5427.060	-59.05	-21.20	37.85	Pass	Peak	11	5427.060	-65.00	-41.20	23.80	Pass	AVG
6	5438.670	-57.15	-21.20	35.95	Pass	Peak	12	5438.670	-64.81	-41.20	23.61	Pass	AVG

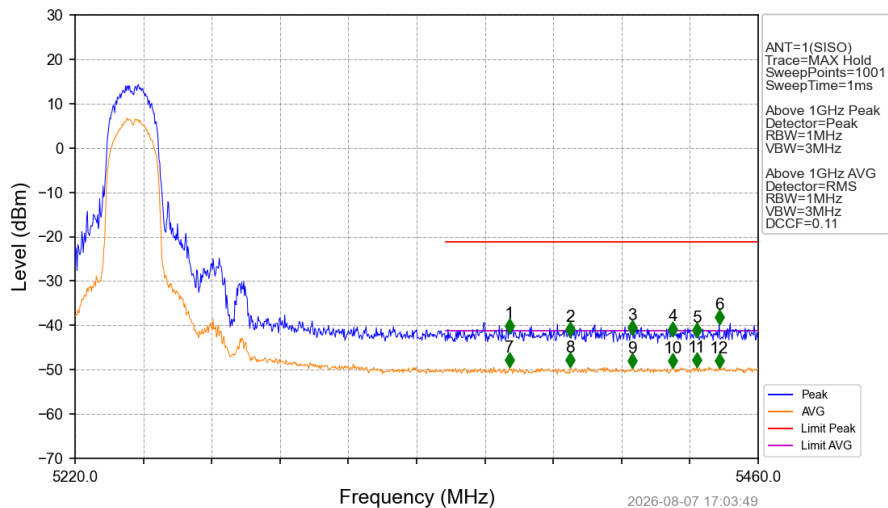


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5026.500	-45.87	-21.20	24.67	Pass	Peak	7	5026.500	-53.66	-41.20	12.46	Pass	AVG
2	5046.500	-47.06	-21.20	25.86	Pass	Peak	8	5046.500	-53.50	-41.20	12.30	Pass	AVG
3	5075.000	-47.31	-21.20	26.11	Pass	Peak	9	5075.000	-53.45	-41.20	12.25	Pass	AVG
4	5102.000	-45.65	-21.20	24.45	Pass	Peak	10	5102.000	-52.52	-41.20	11.32	Pass	AVG
5	5129.000	-42.47	-21.20	21.27	Pass	Peak	11	5129.000	-50.52	-41.20	9.32	Pass	AVG
6	5150.000	-32.08	-21.20	10.88	Pass	Peak	12	5150.000	-42.34	-41.20	1.14	Pass	AVG

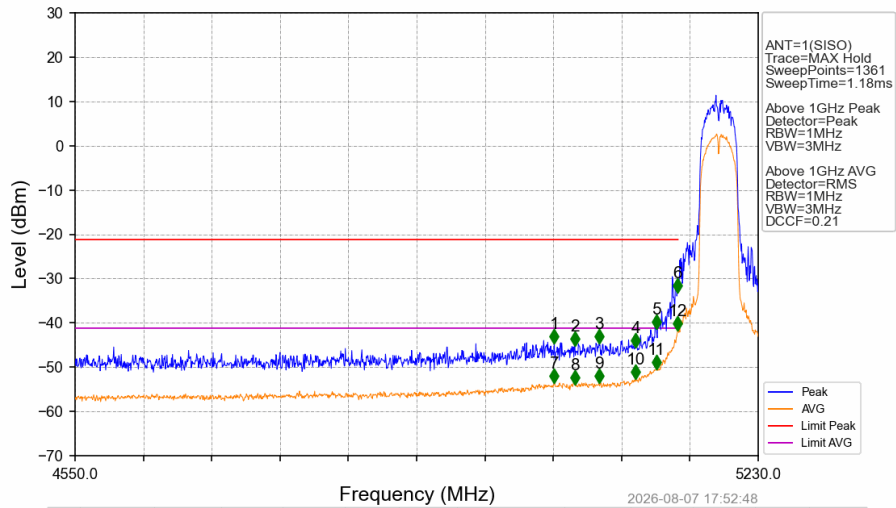
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5372.640	-41.68	-21.20	20.48	Pass	Peak	7	5372.640	-49.39	-41.20	8.19	Pass	AVG
2	5394.000	-42.49	-21.20	21.29	Pass	Peak	8	5394.000	-49.38	-41.20	8.18	Pass	AVG
3	5415.840	-42.04	-21.20	20.84	Pass	Peak	9	5415.840	-49.52	-41.20	8.32	Pass	AVG
4	5430.000	-42.35	-21.20	21.15	Pass	Peak	10	5430.000	-49.54	-41.20	8.34	Pass	AVG
5	5438.400	-42.56	-21.20	21.36	Pass	Peak	11	5438.400	-49.33	-41.20	8.13	Pass	AVG
6	5446.320	-39.68	-21.20	18.48	Pass	Peak	12	5446.320	-49.49	-41.20	8.29	Pass	AVG

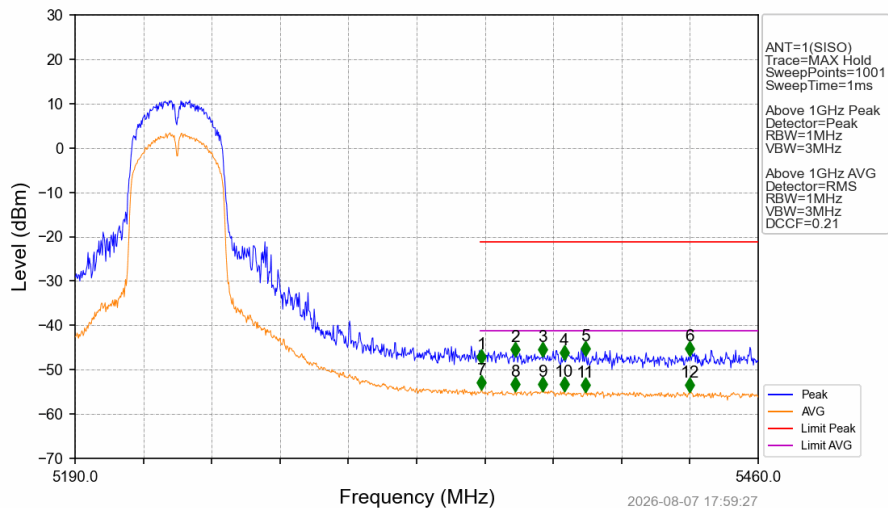


802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5027.000	-44.56	-21.20	23.36	Pass	Peak	7	5027.000	-53.49	-41.20	12.29	Pass	AVG
2	5047.500	-45.14	-21.20	23.94	Pass	Peak	8	5047.500	-53.95	-41.20	12.75	Pass	AVG
3	5071.500	-44.69	-21.20	23.49	Pass	Peak	9	5071.500	-53.53	-41.20	12.33	Pass	AVG
4	5108.000	-45.55	-21.20	24.35	Pass	Peak	10	5108.000	-52.60	-41.20	11.40	Pass	AVG
5	5128.500	-41.31	-21.20	20.11	Pass	Peak	11	5128.500	-50.47	-41.20	9.27	Pass	AVG
6	5150.000	-33.08	-21.20	11.88	Pass	Peak	12	5150.000	-41.70	-41.20	0.50	Pass	AVG

802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5350.650	-48.57	-21.20	27.37	Pass	Peak	7	5350.650	-54.45	-41.20	13.25	Pass	AVG
2	5363.880	-47.08	-21.20	25.88	Pass	Peak	8	5363.880	-54.77	-41.20	13.57	Pass	AVG
3	5374.680	-47.03	-21.20	25.83	Pass	Peak	9	5374.680	-54.76	-41.20	13.56	Pass	AVG
4	5383.320	-47.77	-21.20	26.57	Pass	Peak	10	5383.320	-54.88	-41.20	13.68	Pass	AVG
5	5391.690	-46.86	-21.20	25.66	Pass	Peak	11	5391.690	-54.93	-41.20	13.73	Pass	AVG
6	5433.000	-46.82	-21.20	25.62	Pass	Peak	12	5433.000	-54.97	-41.20	13.77	Pass	AVG



7. Spurious Emission

7.1 Test Result

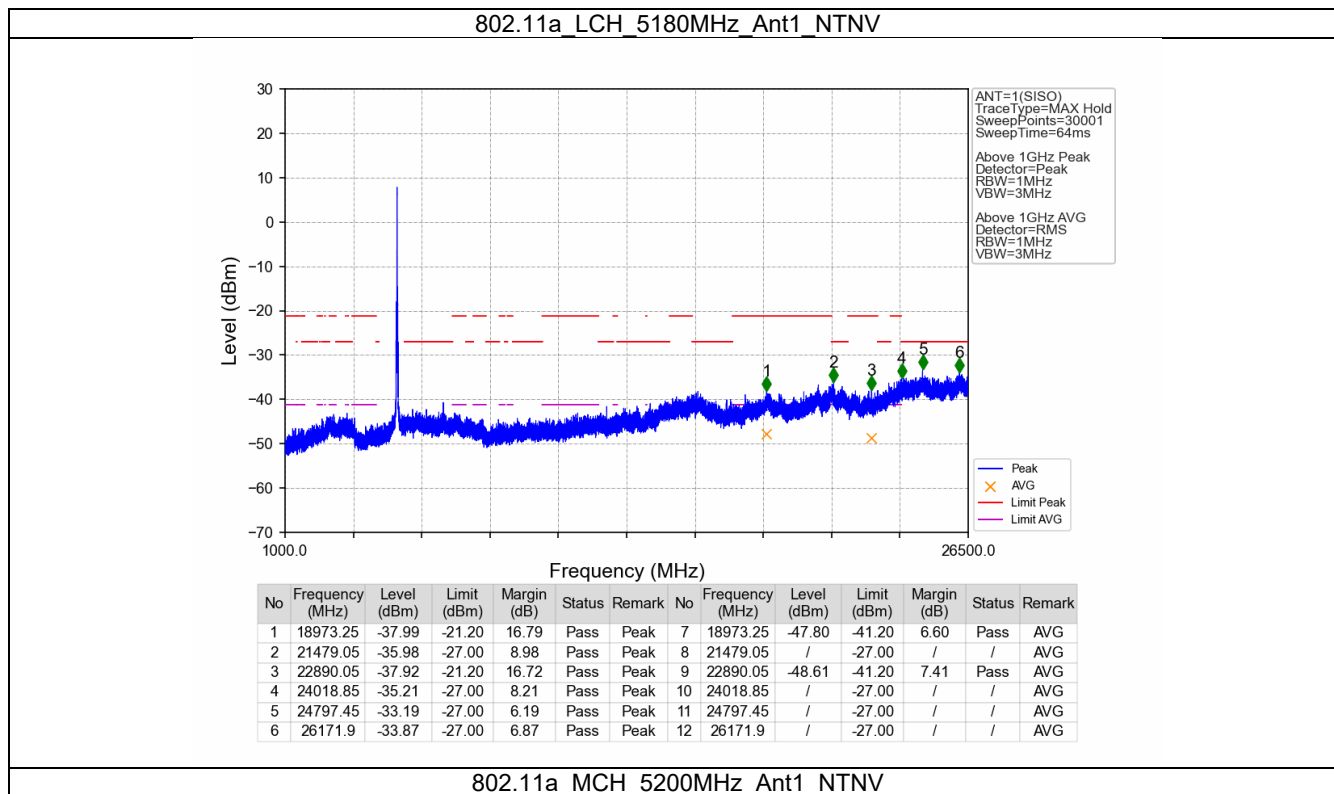
7.1.1 SE

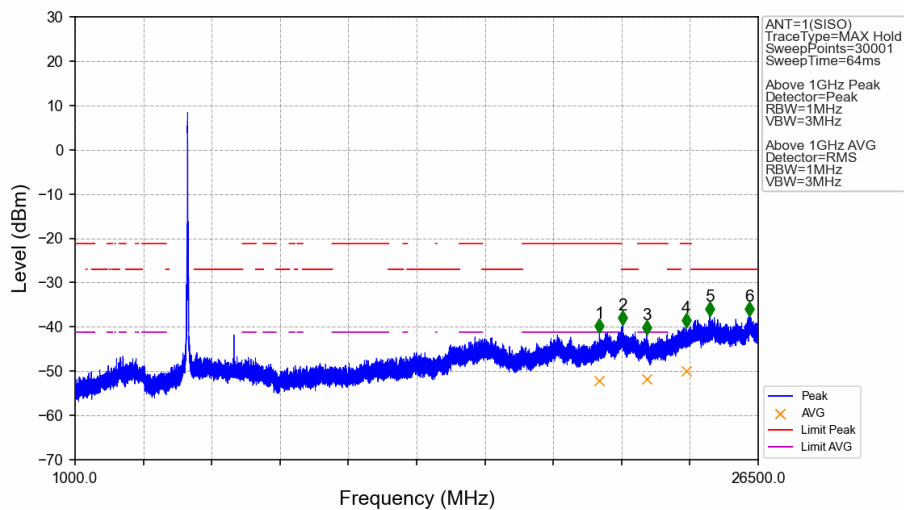
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
802.11ac (VHT20)	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11ac (VHT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass



7.2 Test Graph

7.2.1 SE

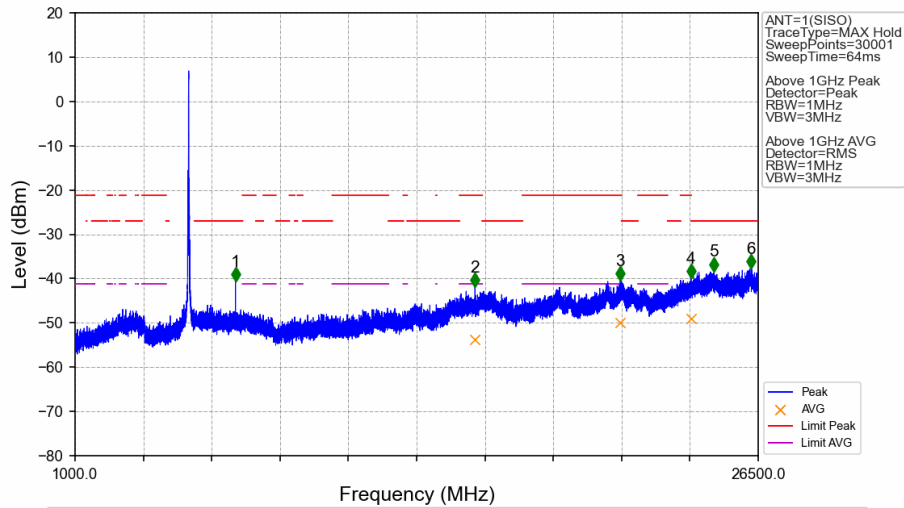




No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20573.8	-41.27	-21.20	20.07	Pass	Peak	7	20573.8	-52.10	-41.20	10.90	Pass	AVG
2	21439.95	-39.56	-27.00	12.56	Pass	Peak	8	21439.95	/	-27.00	/	/	AVG
3	22335	-41.76	-21.20	20.56	Pass	Peak	9	22335	-51.79	-41.20	10.59	Pass	AVG
4	23804.65	-40.09	-21.20	18.89	Pass	Peak	10	23804.65	-49.98	-41.20	8.78	Pass	AVG
5	24689.5	-37.46	-27.00	10.46	Pass	Peak	11	24689.5	/	-27.00	/	/	AVG
6	26166.8	-37.58	-27.00	10.58	Pass	Peak	12	26166.8	/	-27.00	/	/	AVG

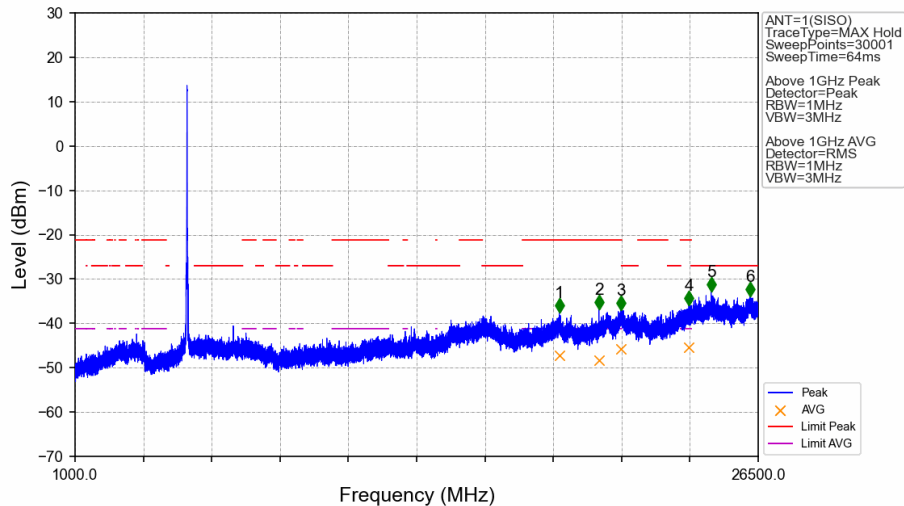


802.11a_HCH_5240MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	6987.4	-40.65	-27.00	13.65	Pass	Peak	7	6987.4	/	-27.00	/	/	AVG
2	15927.7	-41.86	-21.20	20.66	Pass	Peak	8	15927.7	-53.78	-41.20	12.58	Pass	AVG
3	21350.7	-40.34	-21.20	19.14	Pass	Peak	9	21350.7	-50.00	-41.20	8.80	Pass	AVG
4	23994.2	-39.90	-21.20	18.70	Pass	Peak	10	23994.2	-49.08	-41.20	7.88	Pass	AVG
5	24851	-38.33	-27.00	11.33	Pass	Peak	11	24851	/	-27.00	/	/	AVG
6	26240.75	-37.62	-27.00	10.62	Pass	Peak	12	26240.75	/	-27.00	/	/	AVG

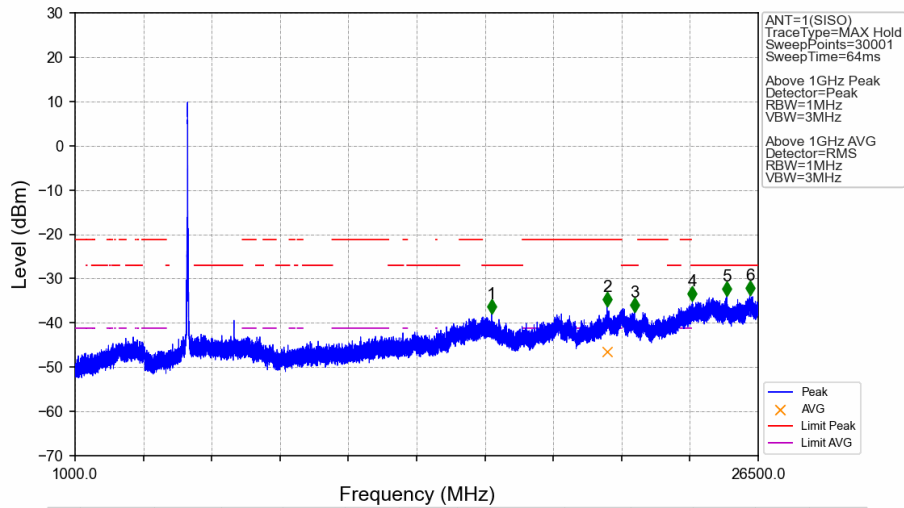
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	19074.4	-37.60	-21.20	16.40	Pass	Peak	7	19074.4	-47.24	-41.20	6.04	Pass	AVG
2	20554.25	-36.76	-21.20	15.56	Pass	Peak	8	20554.25	-48.26	-41.20	7.06	Pass	AVG
3	21366	-37.00	-21.20	15.80	Pass	Peak	9	21366	-45.72	-41.20	4.52	Pass	AVG
4	23911.75	-35.87	-21.20	14.67	Pass	Peak	10	23911.75	-45.38	-41.20	4.18	Pass	AVG
5	24742.2	-32.71	-27.00	5.71	Pass	Peak	11	24742.2	/	-27.00	/	/	AVG
6	26190.6	-33.96	-27.00	6.96	Pass	Peak	12	26190.6	/	-27.00	/	/	AVG

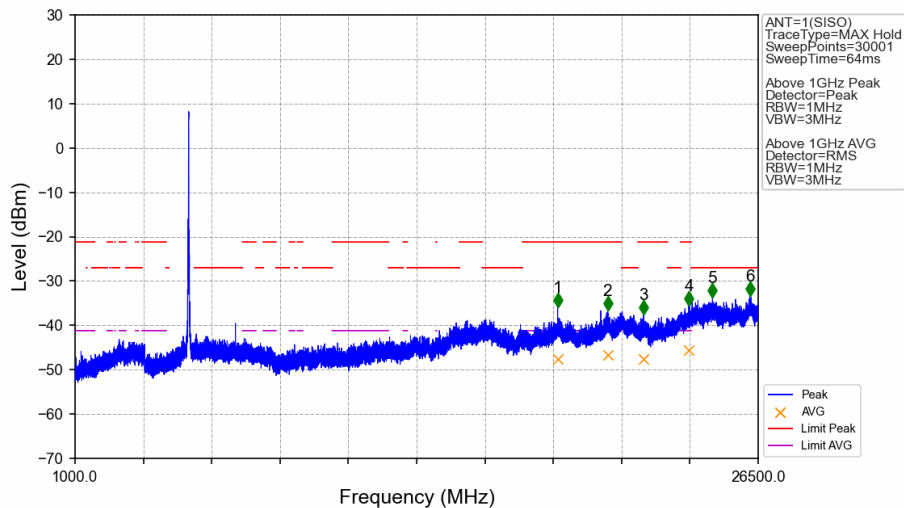


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	16549.05	-37.89	-27.00	10.89	Pass	Peak	7	16549.05	/	-27.00	/	/	AVG
2	20856.85	-36.24	-21.20	15.04	Pass	Peak	8	20856.85	-46.59	-41.20	5.39	Pass	AVG
3	21884.5	-37.59	-27.00	10.59	Pass	Peak	9	21884.5	/	-27.00	/	/	AVG
4	24041.8	-35.00	-27.00	8.00	Pass	Peak	10	24041.8	/	-27.00	/	/	AVG
5	25327.85	-33.82	-27.00	6.82	Pass	Peak	11	25327.85	/	-27.00	/	/	AVG
6	26187.2	-33.71	-27.00	6.71	Pass	Peak	12	26187.2	/	-27.00	/	/	AVG

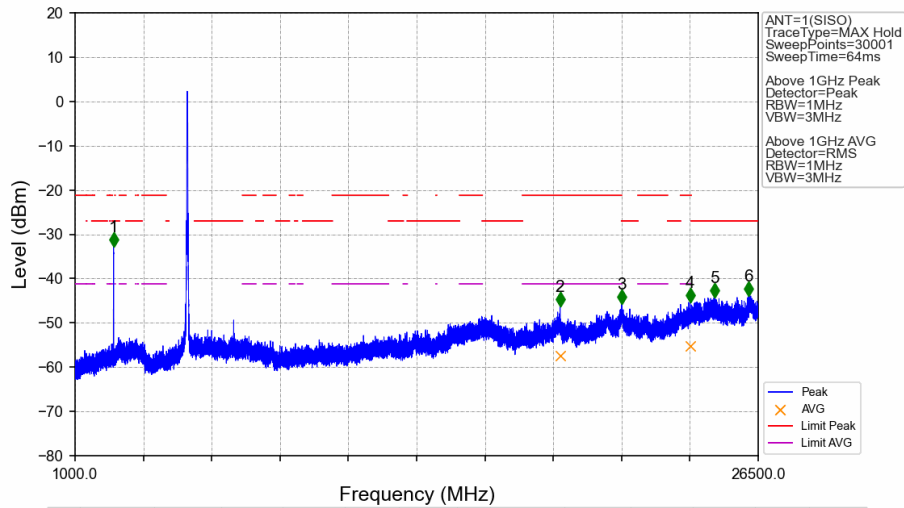
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	19013.2	-35.82	-21.20	14.62	Pass	Peak	7	19013.2	-47.52	-41.20	6.32	Pass	AVG
2	20879.8	-36.59	-21.20	15.39	Pass	Peak	8	20879.8	-46.63	-41.20	5.43	Pass	AVG
3	22222.8	-37.59	-21.20	16.39	Pass	Peak	9	22222.8	-47.57	-41.20	6.37	Pass	AVG
4	23910.05	-35.47	-21.20	14.27	Pass	Peak	10	23910.05	-45.56	-41.20	4.36	Pass	AVG
5	24793.2	-33.76	-27.00	6.76	Pass	Peak	11	24793.2	/	-27.00	/	/	AVG
6	26185.5	-33.33	-27.00	6.33	Pass	Peak	12	26185.5	/	-27.00	/	/	AVG

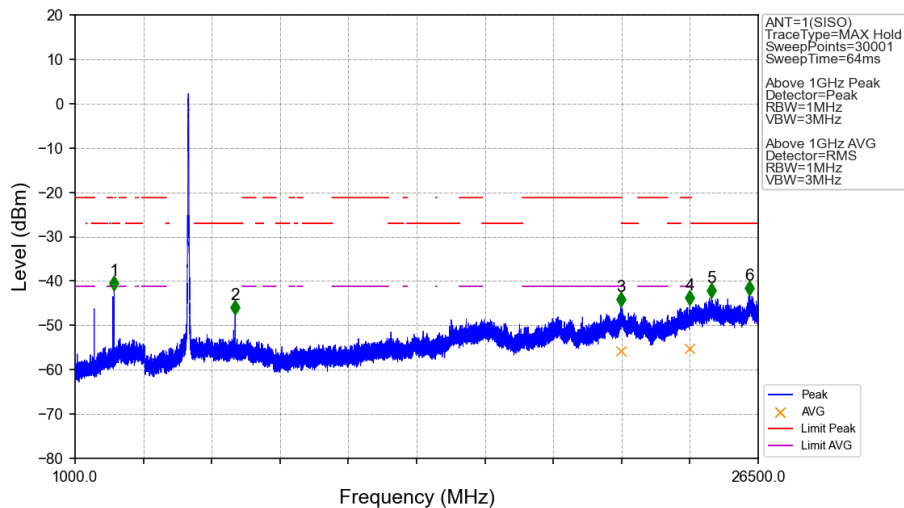


802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2435.65	-32.85	-27.00	5.85	Pass	Peak	7	2435.65	/	-27.00	/	/	AVG
2	19105	-46.22	-21.20	25.02	Pass	Peak	8	19105	-57.44	-41.20	16.24	Pass	AVG
3	21405.95	-45.65	-27.00	18.65	Pass	Peak	9	21405.95	/	-27.00	/	/	AVG
4	23956.8	-45.32	-21.20	24.12	Pass	Peak	10	23956.8	-55.22	-41.20	14.02	Pass	AVG
5	24876.5	-44.23	-27.00	17.23	Pass	Peak	11	24876.5	/	-27.00	/	/	AVG
6	26143	-43.85	-27.00	16.85	Pass	Peak	12	26143	/	-27.00	/	/	AVG

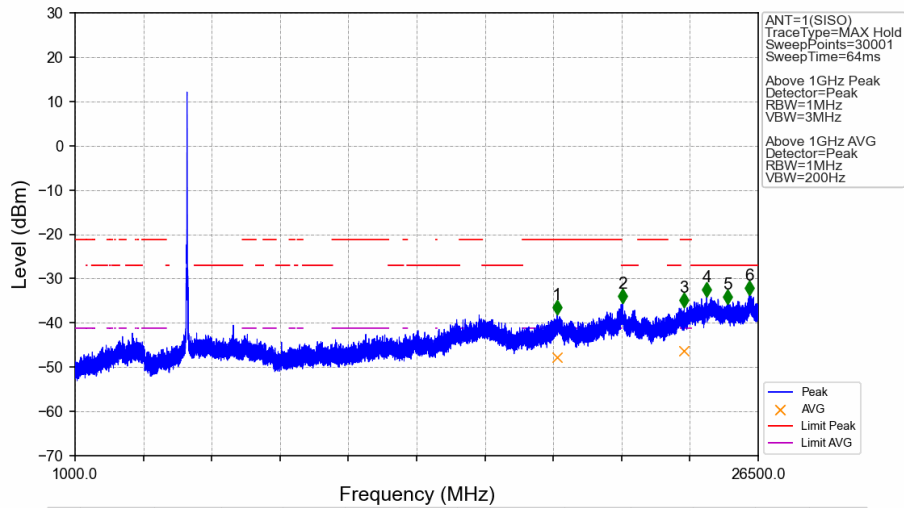
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2459.45	-41.99	-27.00	14.99	Pass	Peak	7	2459.45	/	-27.00	/	/	AVG
2	6973.8	-47.44	-27.00	20.44	Pass	Peak	8	6973.8	/	-27.00	/	/	AVG
3	21368.55	-45.73	-21.20	24.53	Pass	Peak	9	21368.55	-55.71	-41.20	14.51	Pass	AVG
4	23948.3	-45.40	-21.20	24.20	Pass	Peak	10	23948.3	-55.14	-41.20	13.94	Pass	AVG
5	24760.05	-43.73	-27.00	16.73	Pass	Peak	11	24760.05	/	-27.00	/	/	AVG
6	26159.15	-43.16	-27.00	16.16	Pass	Peak	12	26159.15	/	-27.00	/	/	AVG

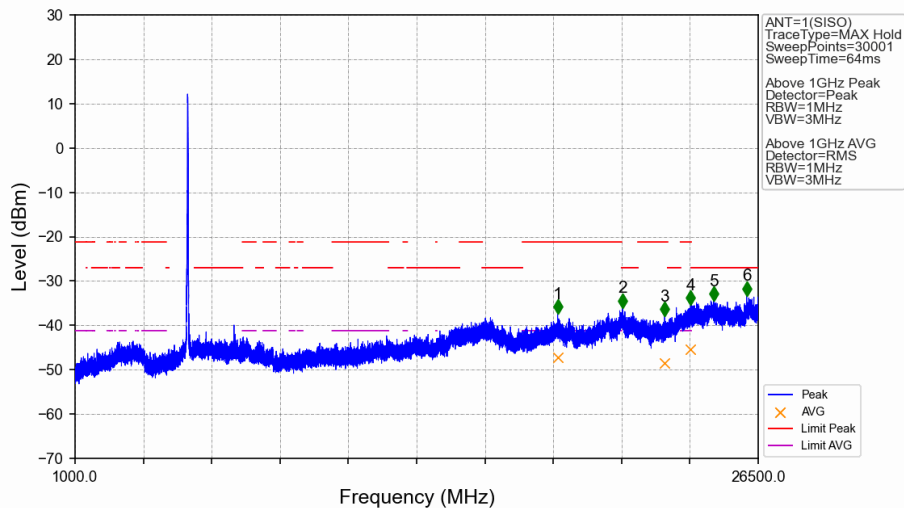


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	18982.6	-38.12	-21.20	16.92	Pass	Peak	7	18982.6	-47.69	-41.20	6.49	Pass	AVG
2	21439.1	-35.45	-27.00	8.45	Pass	Peak	8	21439.1	/	-27.00	/	/	AVG
3	23740.9	-36.48	-21.20	15.28	Pass	Peak	9	23740.9	-46.32	-41.20	5.12	Pass	AVG
4	24574.75	-34.15	-27.00	7.15	Pass	Peak	10	24574.75	/	-27.00	/	/	AVG
5	25341.45	-35.68	-27.00	8.68	Pass	Peak	11	25341.45	/	-27.00	/	/	AVG
6	26168.5	-33.78	-27.00	6.78	Pass	Peak	12	26168.5	/	-27.00	/	/	AVG

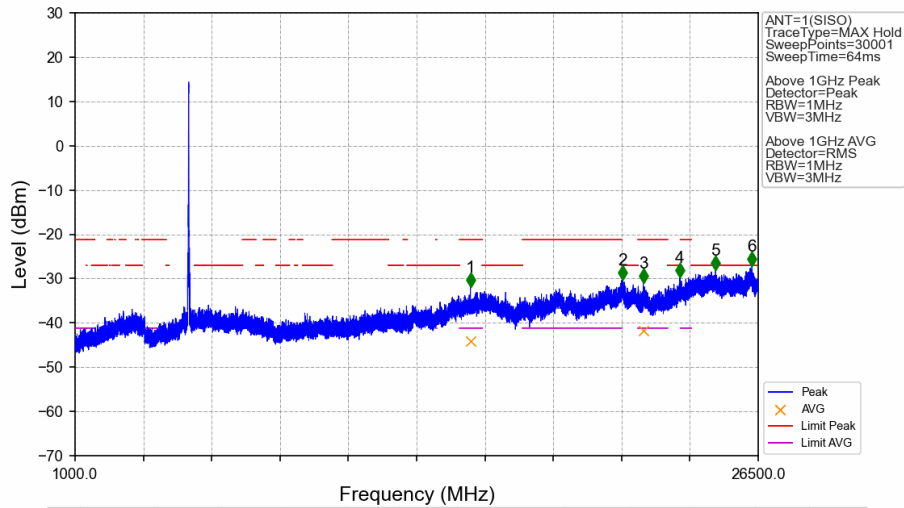
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	19013.2	-37.41	-21.20	16.21	Pass	Peak	7	19013.2	-47.32	-41.20	6.12	Pass	AVG
2	21435.7	-35.97	-27.00	8.97	Pass	Peak	8	21435.7	/	-27.00	/	/	AVG
3	23008.2	-37.94	-21.20	16.74	Pass	Peak	9	23008.2	-48.54	-41.20	7.34	Pass	AVG
4	23975.5	-35.41	-21.20	14.21	Pass	Peak	10	23975.5	-45.45	-41.20	4.25	Pass	AVG
5	24841.65	-34.35	-27.00	7.35	Pass	Peak	11	24841.65	/	-27.00	/	/	AVG
6	26069.05	-33.25	-27.00	6.25	Pass	Peak	12	26069.05	/	-27.00	/	/	AVG

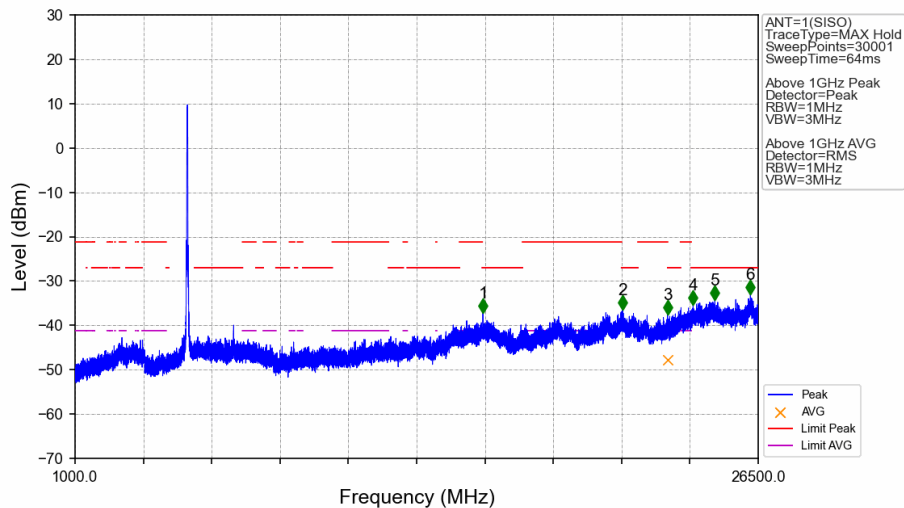


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	15757.7	-31.92	-21.20	10.72	Pass	Peak	7	15757.7	-44.14	-41.20	2.94	Pass	AVG
2	21439.1	-30.30	-27.00	3.30	Pass	Peak	8	21439.1	/	-27.00	/	/	AVG
3	22208.35	-30.94	-21.20	9.74	Pass	Peak	9	22208.35	-41.70	-41.20	0.50	Pass	AVG
4	23577.7	-29.70	-27.00	2.70	Pass	Peak	10	23577.7	/	-27.00	/	/	AVG
5	24907.1	-28.08	-27.00	1.08	Pass	Peak	11	24907.1	/	-27.00	/	/	AVG
6	26264.55	-27.18	-27.00	0.18	Pass	Peak	12	26264.55	/	-27.00	/	/	AVG

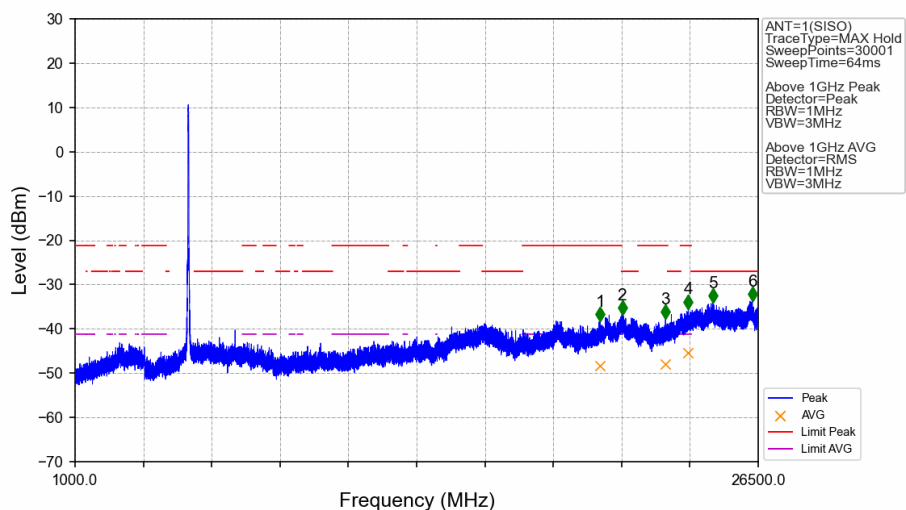
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	16224.35	-37.21	-27.00	10.21	Pass	Peak	7	16224.35	/	-27.00	/	/	AVG
2	21439.1	-36.47	-27.00	9.47	Pass	Peak	8	21439.1	/	-27.00	/	/	AVG
3	23115.3	-37.47	-21.20	16.27	Pass	Peak	9	23115.3	-47.76	-41.20	6.56	Pass	AVG
4	24069.85	-35.34	-27.00	8.34	Pass	Peak	10	24069.85	/	-27.00	/	/	AVG
5	24881.6	-34.25	-27.00	7.25	Pass	Peak	11	24881.6	/	-27.00	/	/	AVG
6	26209.3	-32.96	-27.00	5.96	Pass	Peak	12	26209.3	/	-27.00	/	/	AVG



802.11ac(VHT40) HCH_5230MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20597.6	-38.18	-21.20	16.98	Pass	Peak	7	20597.6	-48.34	-41.20	7.14	Pass	AVG
2	21424.65	-36.75	-27.00	9.75	Pass	Peak	8	21424.65	/	-27.00	/	/	AVG
3	23039.65	-37.66	-21.20	16.46	Pass	Peak	9	23039.65	-48.01	-41.20	6.81	Pass	AVG
4	23892.2	-35.43	-21.20	14.23	Pass	Peak	10	23892.2	-45.42	-41.20	4.22	Pass	AVG
5	24806.8	-34.02	-27.00	7.02	Pass	Peak	11	24806.8	/	-27.00	/	/	AVG
6	26279.85	-33.69	-27.00	6.69	Pass	Peak	12	26279.85	/	-27.00	/	/	AVG