

1. Duty Cycle

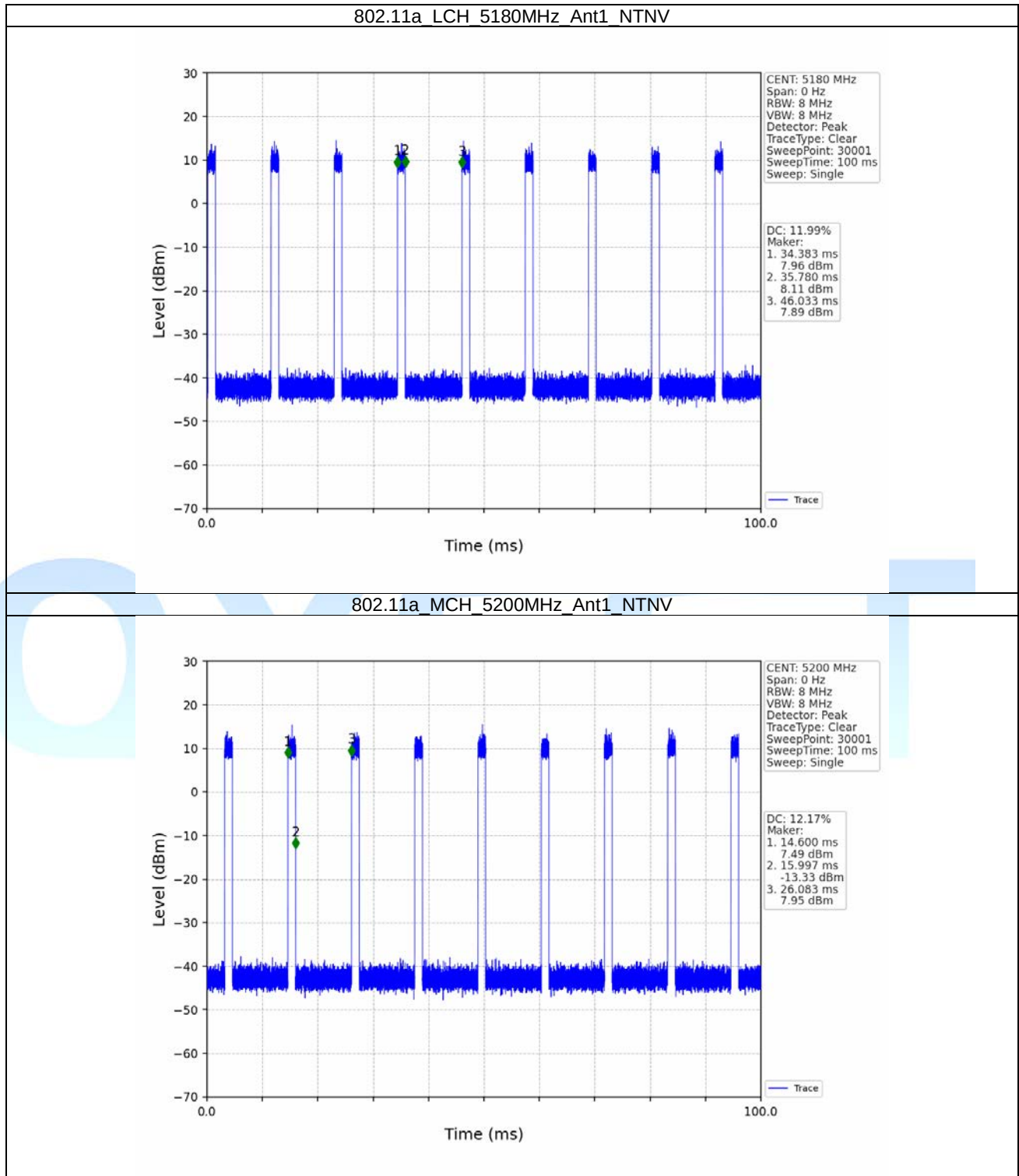
1.1 Test Result

1.1.1 Ant1

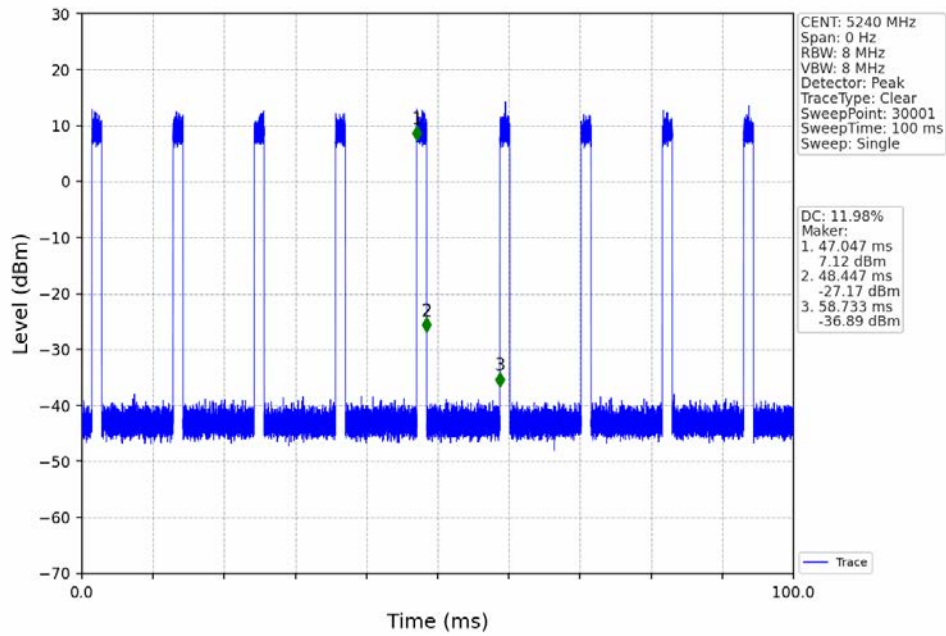
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.397	11.650	11.99	9.21	0.27
		5200	/	/	1.397	11.483	12.17	9.15	0.10
		5240	/	/	1.400	11.686	11.98	9.22	0.29
802.11n (HT20)	SISO	5180	/	/	5.090	15.113	33.68	4.73	0.04
		5200	/	/	5.090	15.110	33.69	4.73	0.01
		5240	/	/	5.090	15.193	33.50	4.75	0.21
802.11n (HT40)	SISO	5190	/	/	4.896	15.090	32.45	4.89	0.41
		5230	/	/	4.897	14.917	32.83	4.84	0.00
802.11ac (VHT20)	SISO	5180	/	/	5.097	15.117	33.72	4.72	0.03
		5200	/	/	5.097	15.220	33.49	4.75	0.25
		5240	/	/	5.097	15.987	31.88	4.96	1.86
802.11ac (VHT40)	SISO	5190	/	/	4.903	14.920	32.86	4.83	0.02
		5230	/	/	4.904	14.924	32.86	4.83	0.03
802.11ax (HEW20)	SISO	5180	RU242	Left	3.877	13.897	27.90	5.54	0.02
		5200	RU242	Left	3.880	14.357	27.03	5.68	0.90
		5240	RU242	Left	3.877	13.894	27.90	5.54	0.02
802.11ax (HEW40)	SISO	5190	RU484	Left	3.873	13.896	27.87	5.55	0.02
		5230	RU484	Left	3.876	13.940	27.80	5.56	0.09

1.2 Test Graph

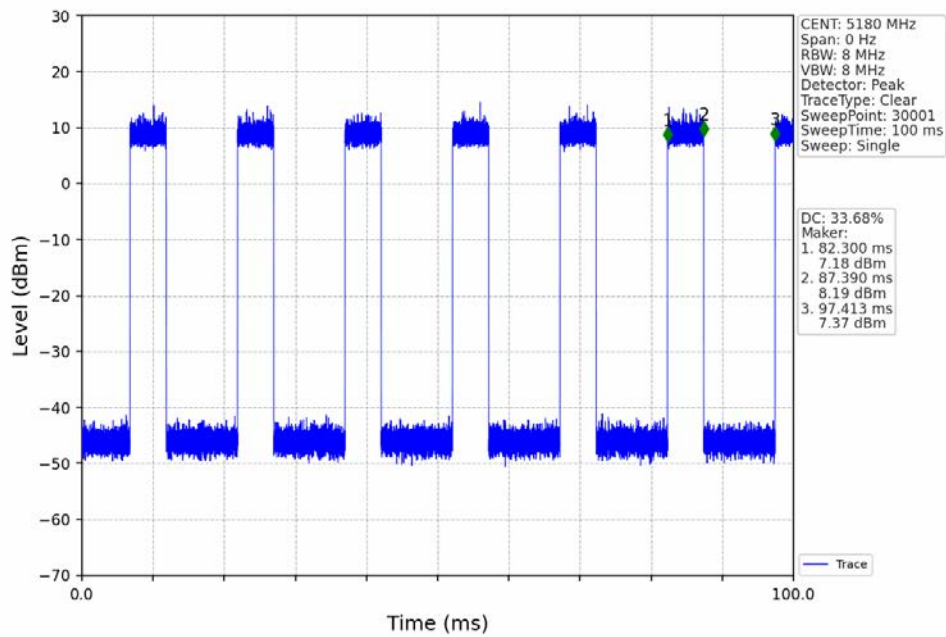
1.2.1 Ant1



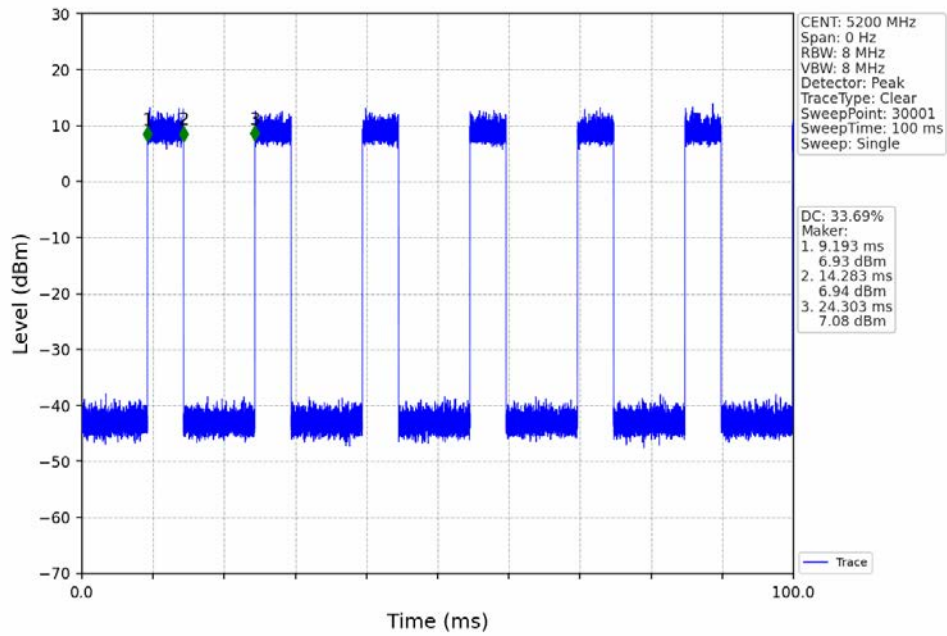
802.11a_HCH_5240MHz_Ant1_NTNV



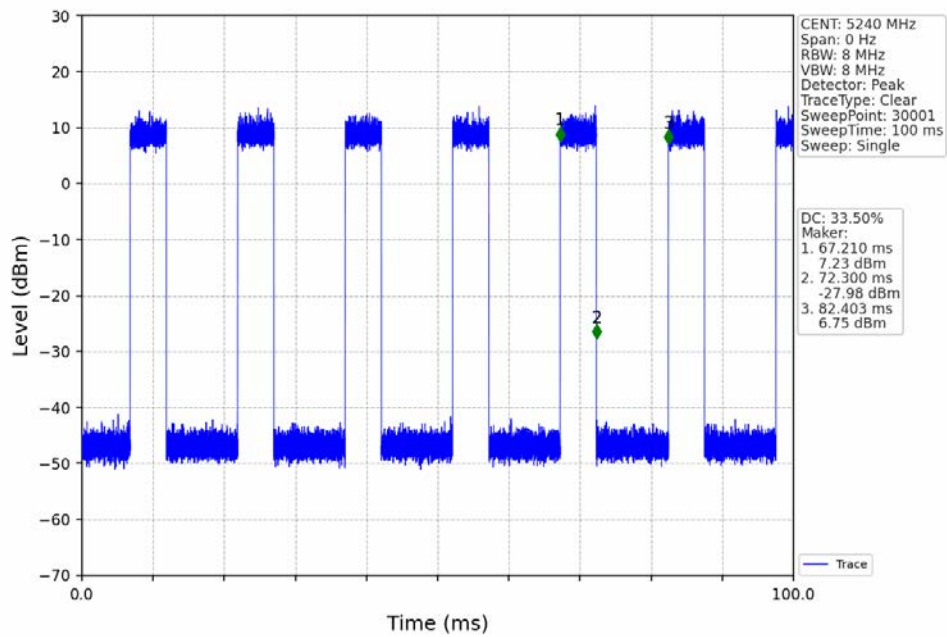
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



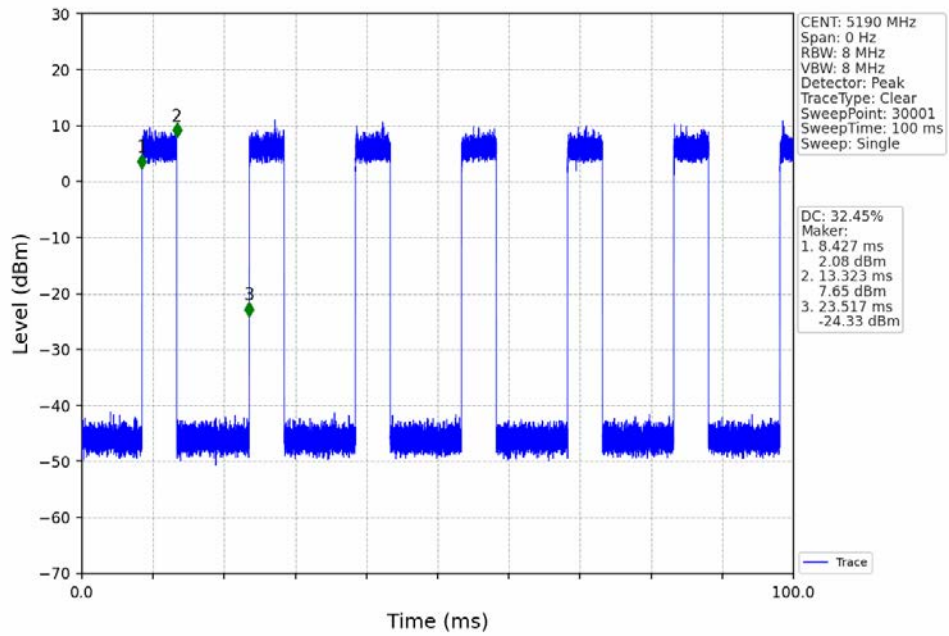
802.11n(HT20) MCH 5200MHz_Ant1_NTNV



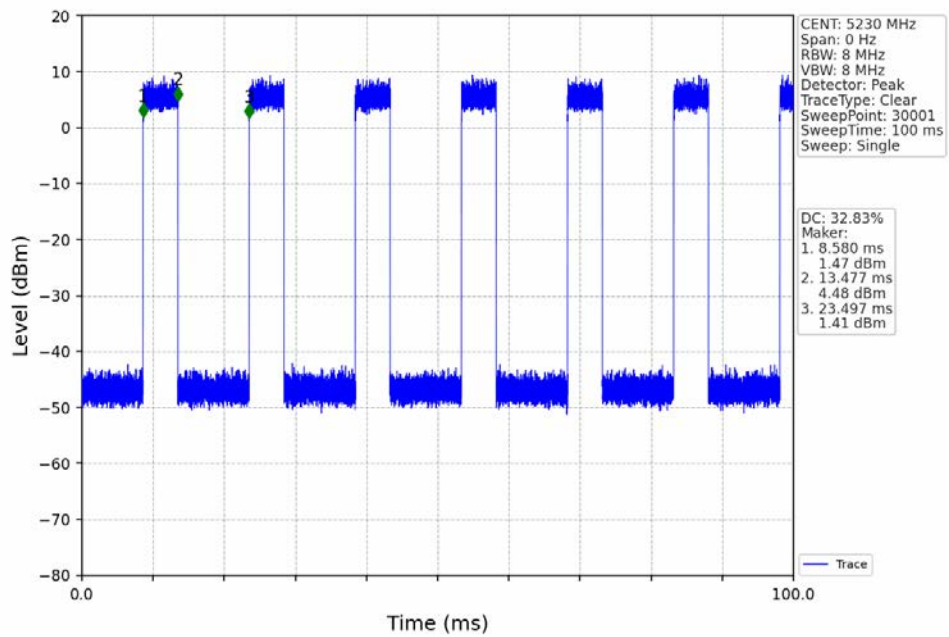
802.11n(HT20) HCH 5240MHz_Ant1_NTNV



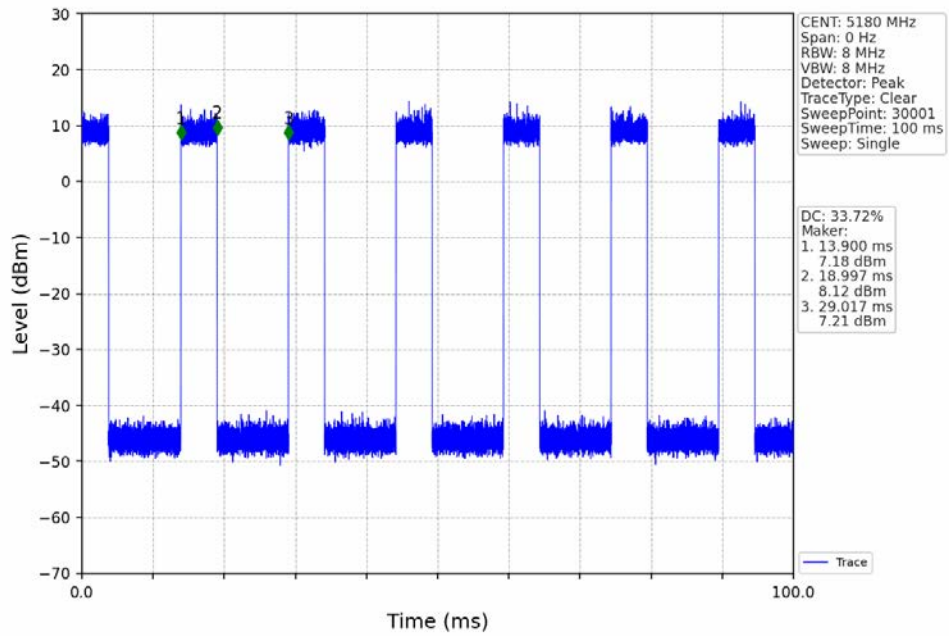
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



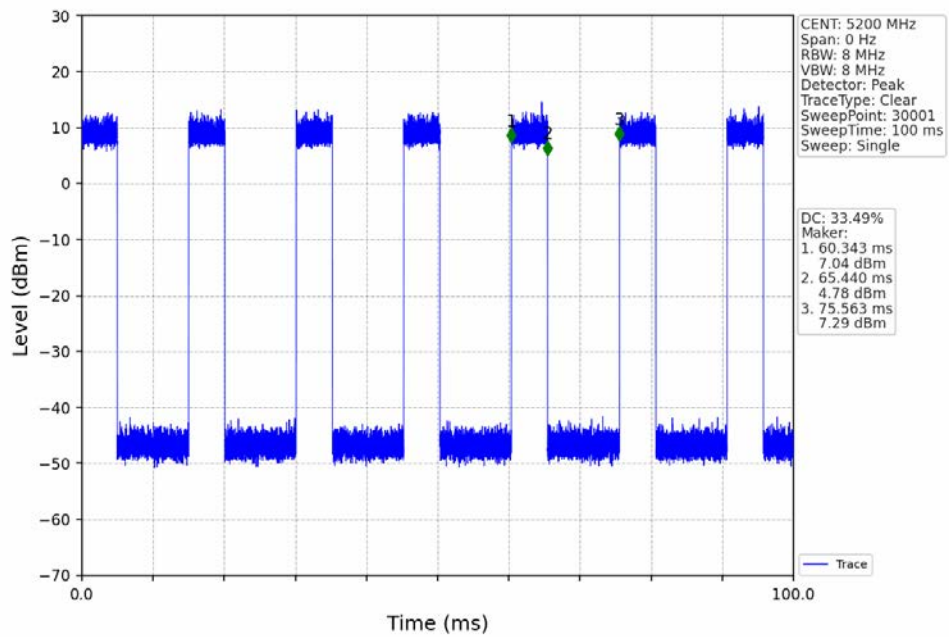
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



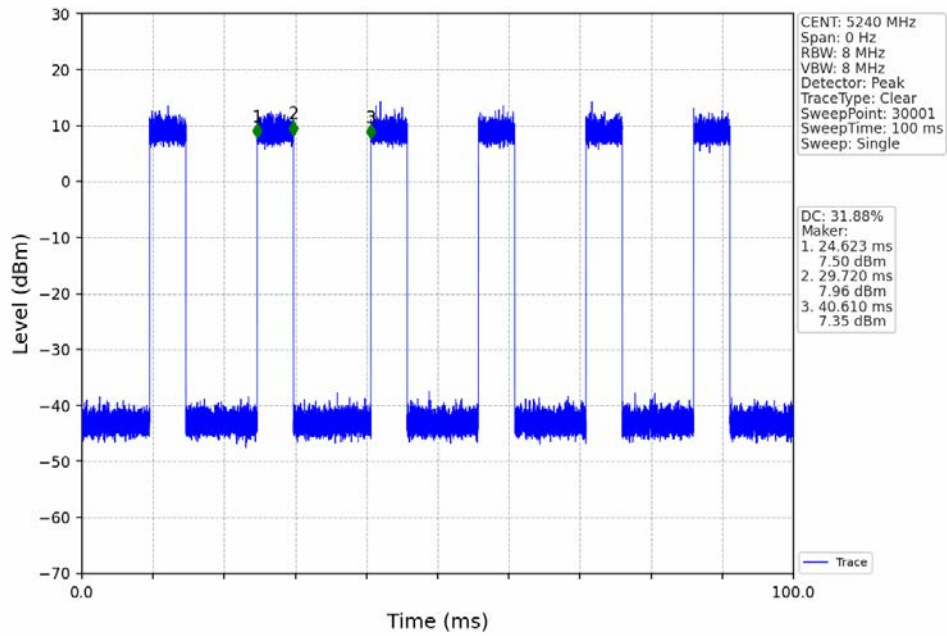
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



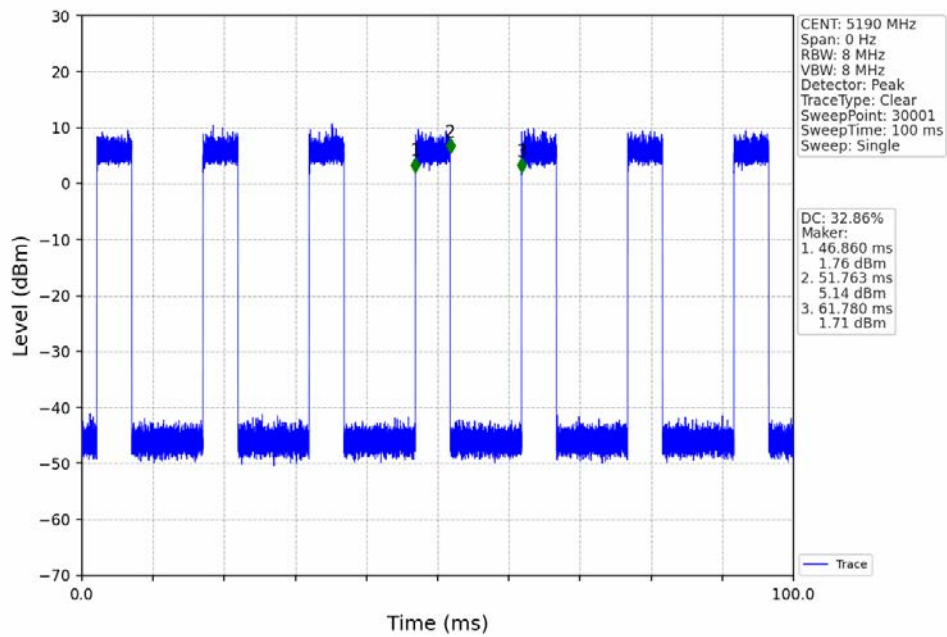
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



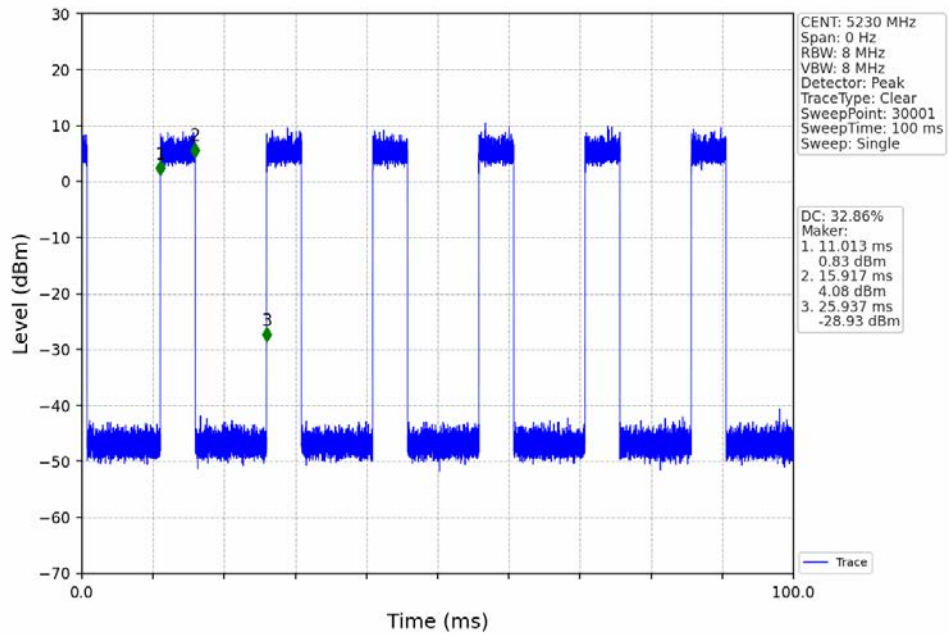
802.11ac(VHT20) HCH_5240MHz_Ant1_NTNV



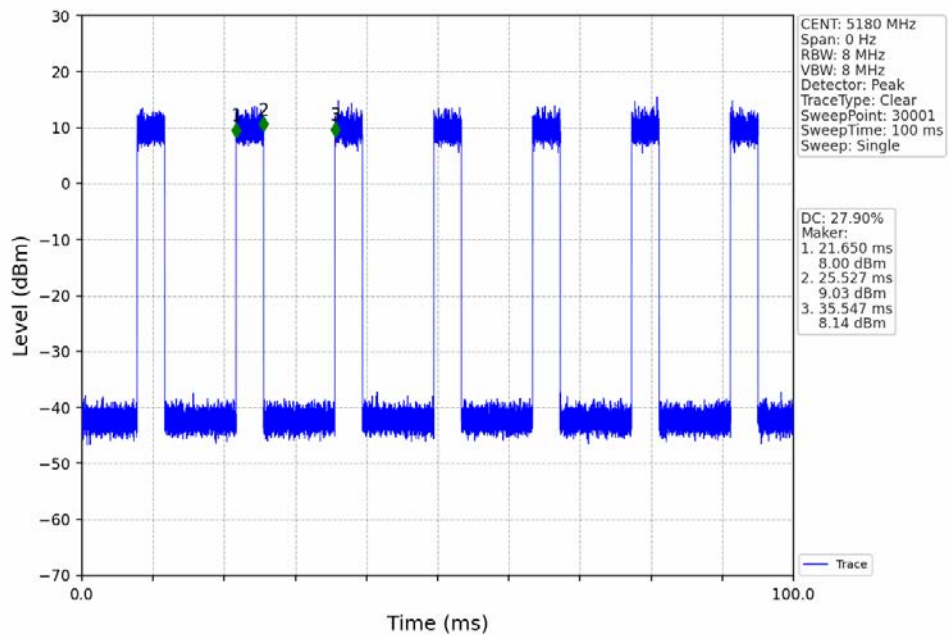
802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV



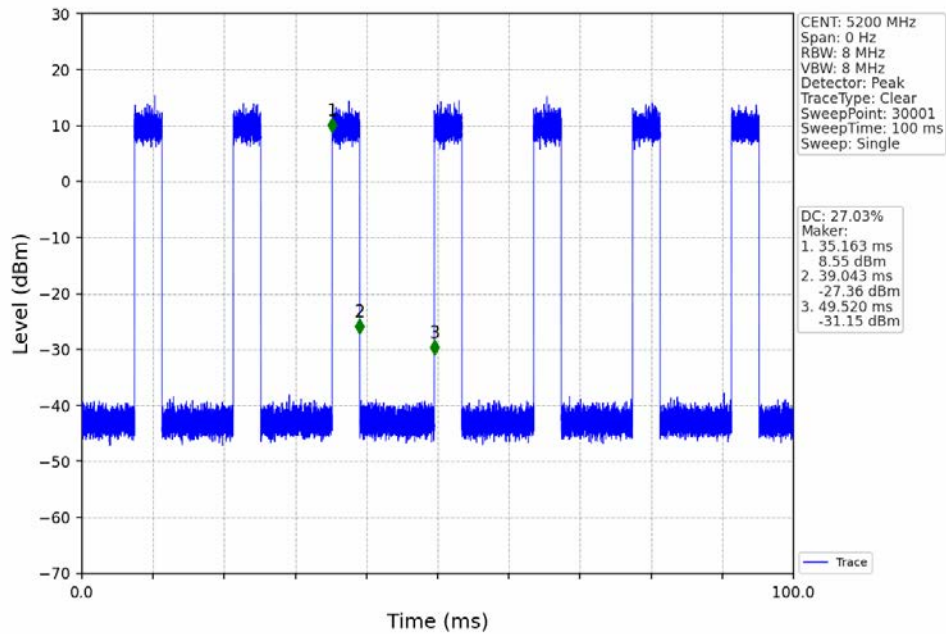
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



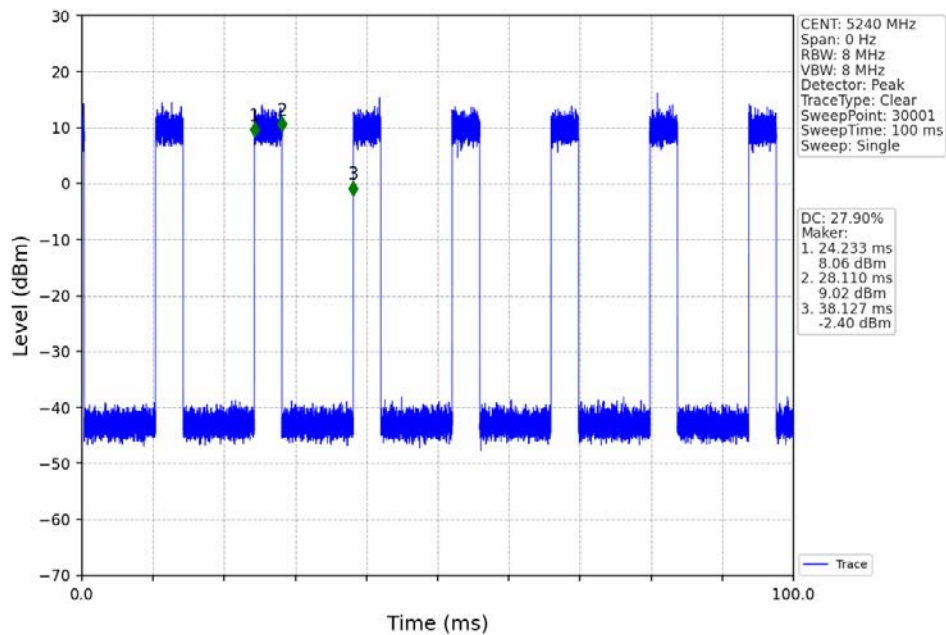
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



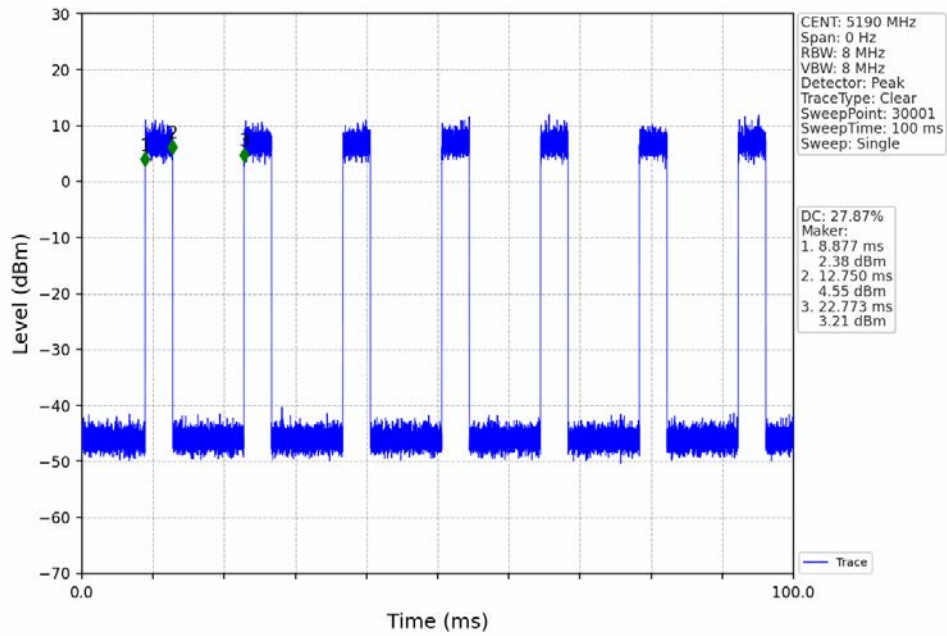
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



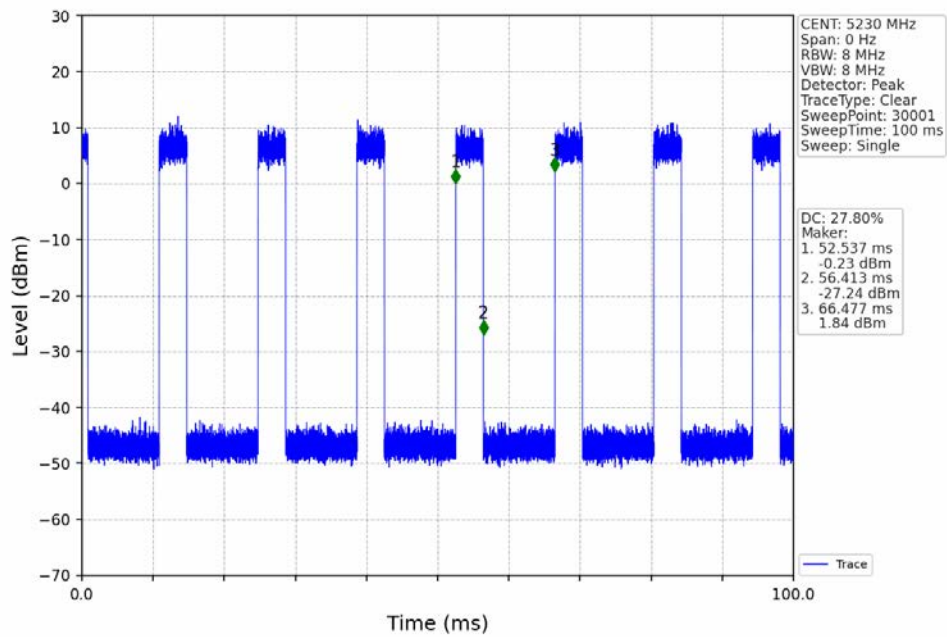
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

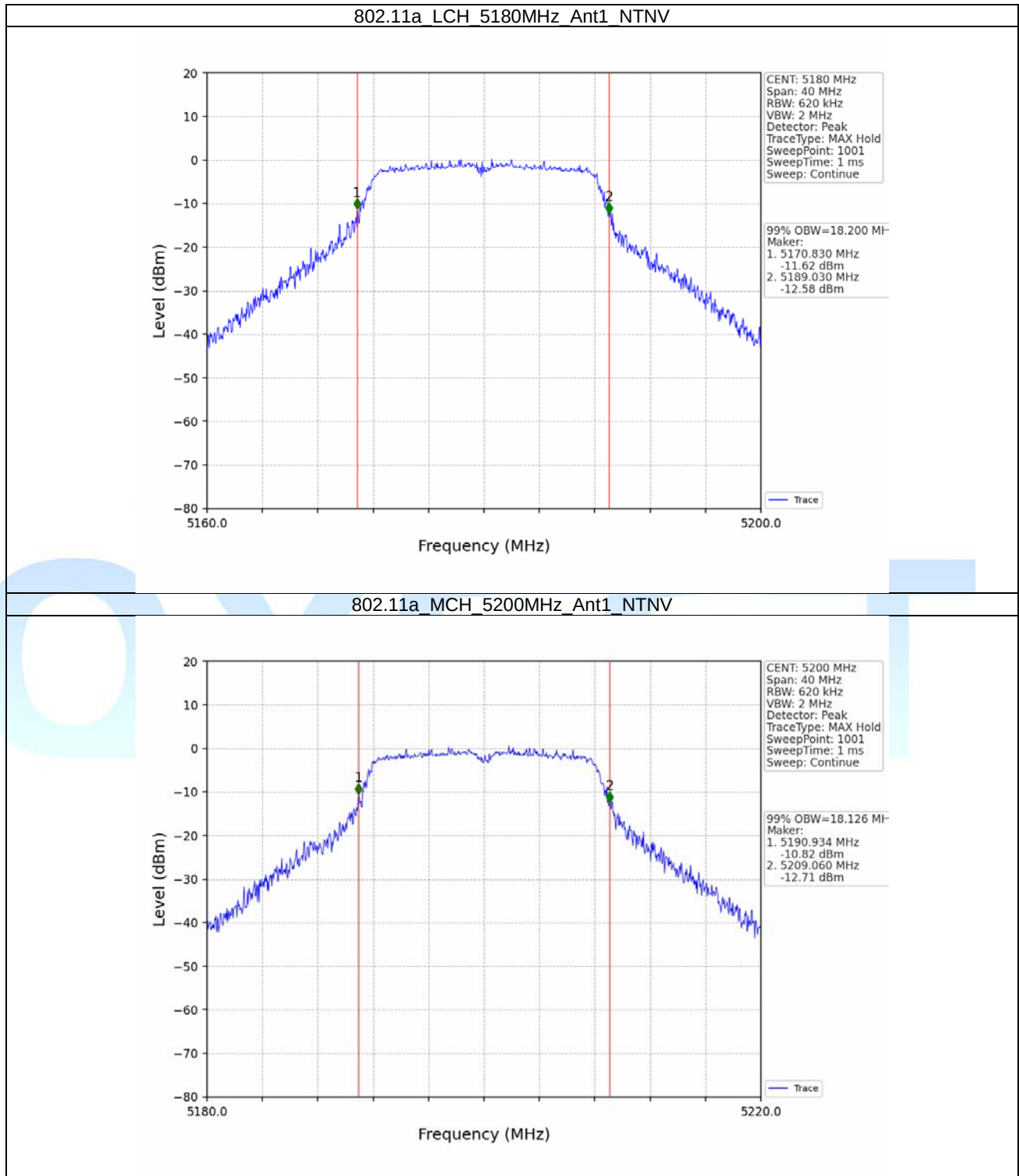
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	18.200	/	Pass
		5200	/	/	1	18.126	/	Pass
		5240	/	/	1	18.058	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	19.579	/	Pass
		5200	/	/	1	19.343	/	Pass
		5240	/	/	1	19.422	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	37.548	/	Pass
		5230	/	/	1	37.563	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	19.494	/	Pass
		5200	/	/	1	19.415	/	Pass
		5240	/	/	1	19.290	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	37.523	/	Pass
		5230	/	/	1	37.566	/	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	1	19.784	/	Pass
		5200	RU242	Left	1	19.838	/	Pass
		5240	RU242	Left	1	19.839	/	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	38.843	/	Pass
		5230	RU484	Left	1	38.800	/	Pass

2.1.2 26dB BW

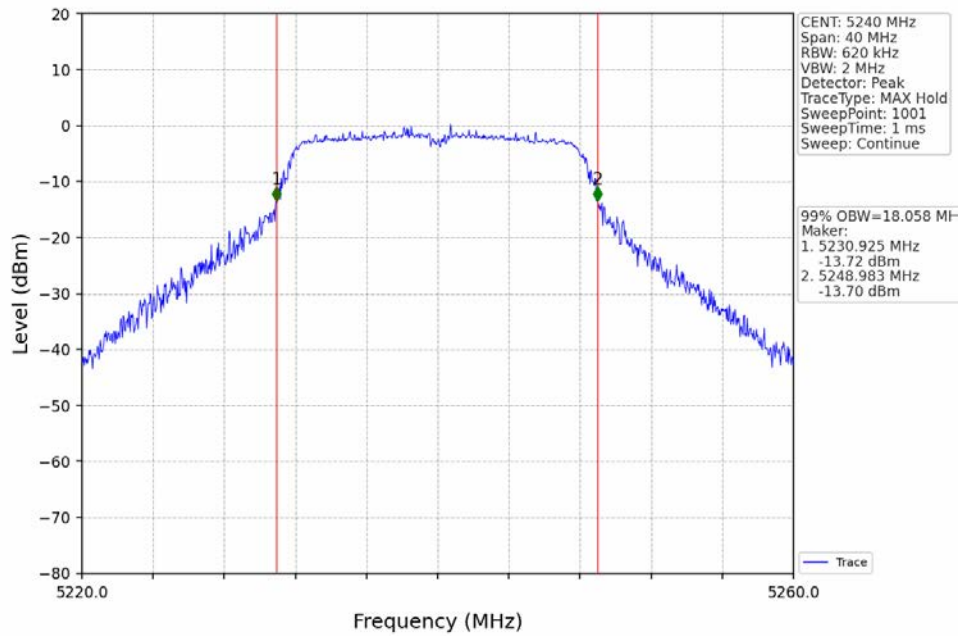
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	23.012	/	Pass
		5200	/	/	1	23.011	/	Pass
		5240	/	/	1	23.175	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	24.835	/	Pass
		5200	/	/	1	24.111	/	Pass
		5240	/	/	1	24.240	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	46.154	/	Pass
		5230	/	/	1	45.932	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	24.945	/	Pass
		5200	/	/	1	24.861	/	Pass
		5240	/	/	1	24.645	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	45.528	/	Pass
		5230	/	/	1	45.596	/	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	1	24.444	/	Pass
		5200	RU242	Left	1	24.495	/	Pass
		5240	RU242	Left	1	24.835	/	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	44.724	/	Pass
		5230	RU484	Left	1	44.762	/	Pass

2.2 Test Graph

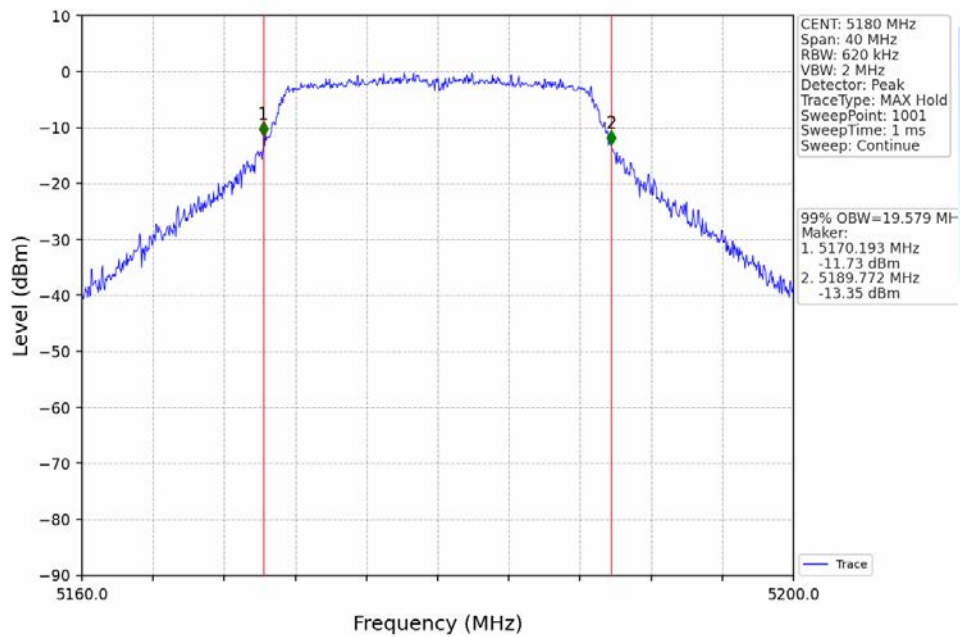
2.2.1 OBW



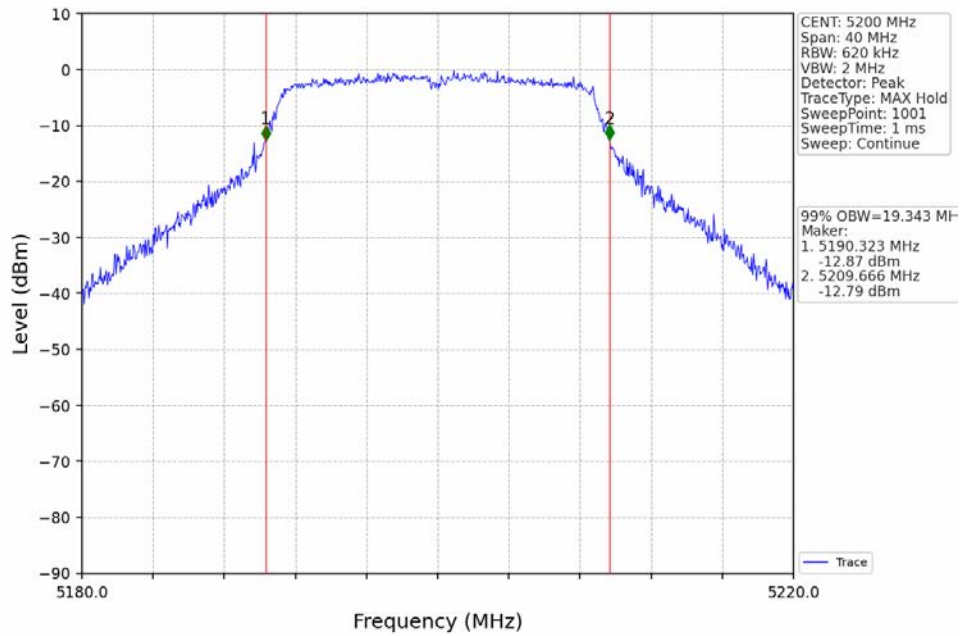
802.11a_HCH_5240MHz_Ant1_NTNV



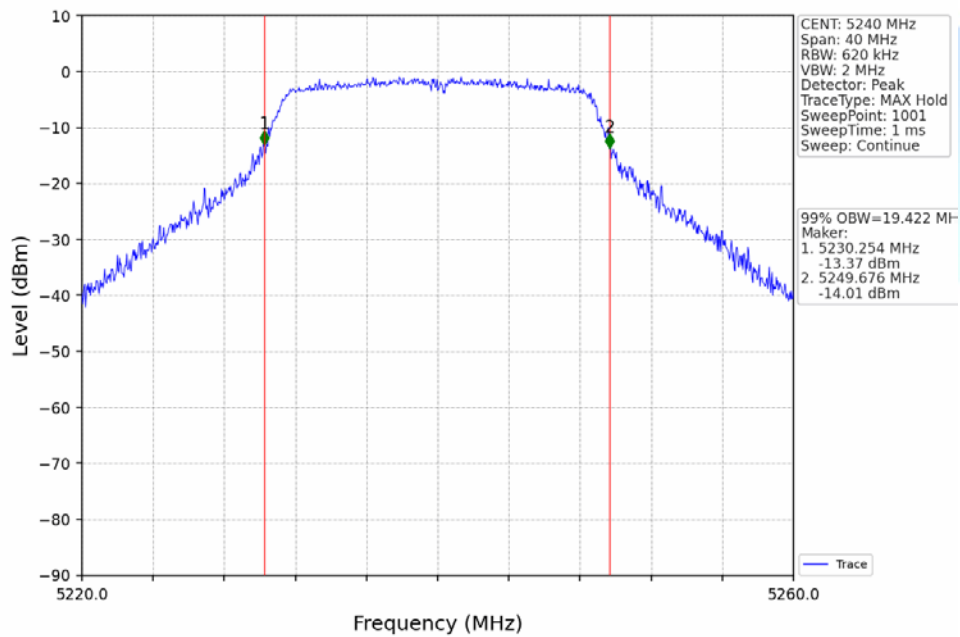
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



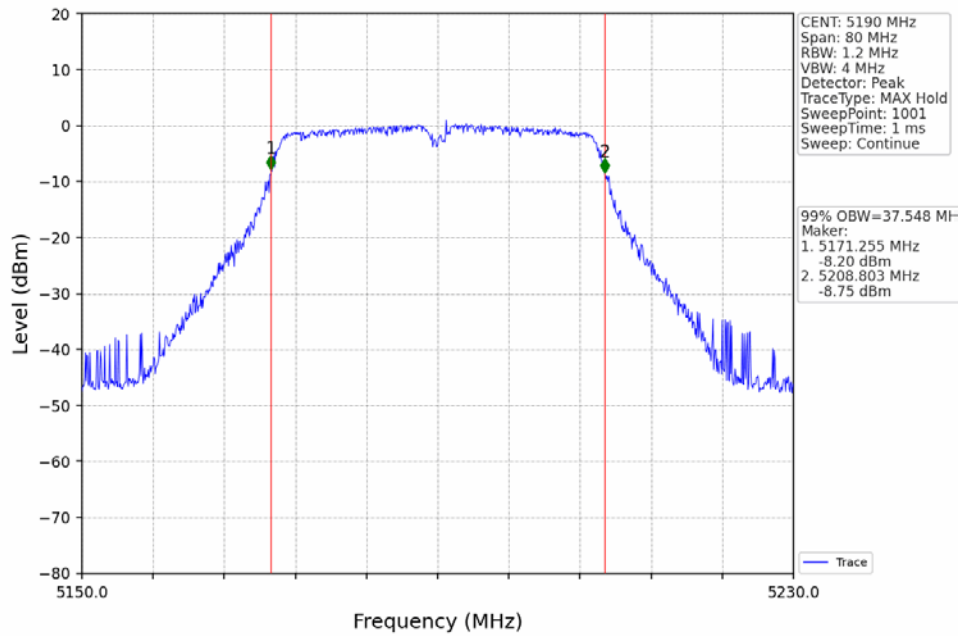
802.11n(HT20) MCH 5200MHz_Ant1_NTNV



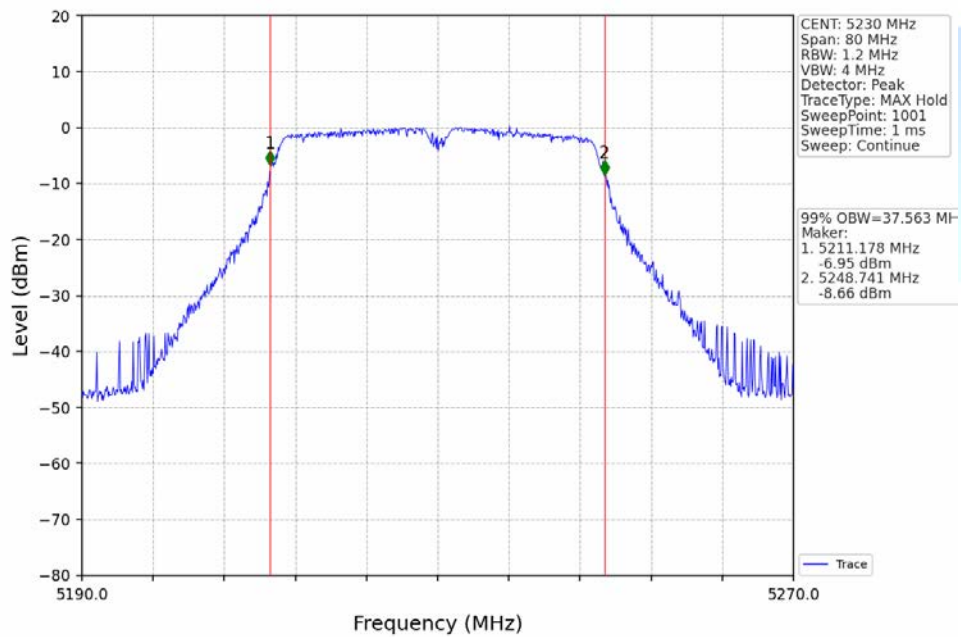
802.11n(HT20) HCH 5240MHz_Ant1_NTNV



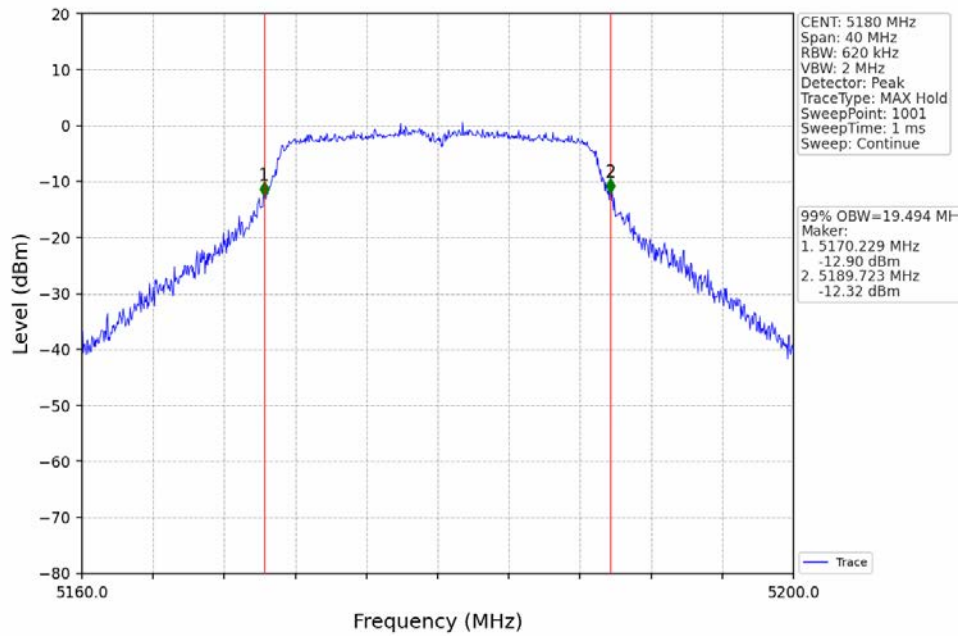
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



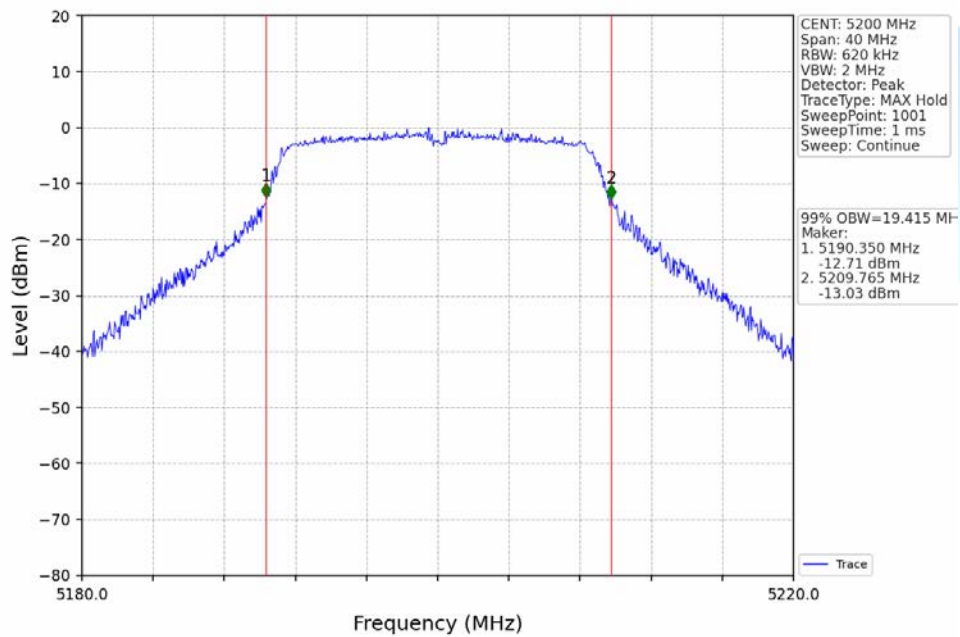
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



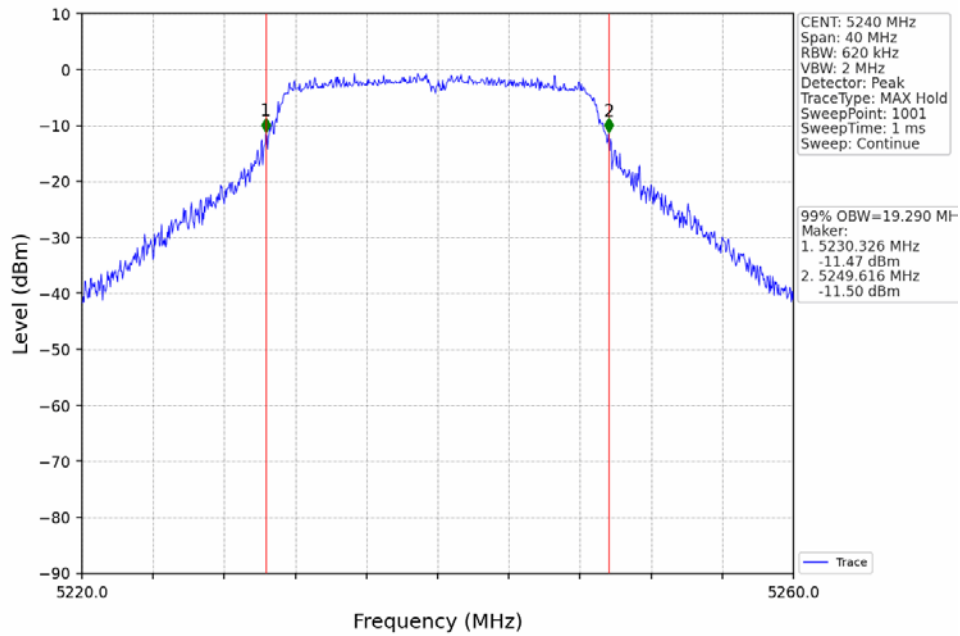
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



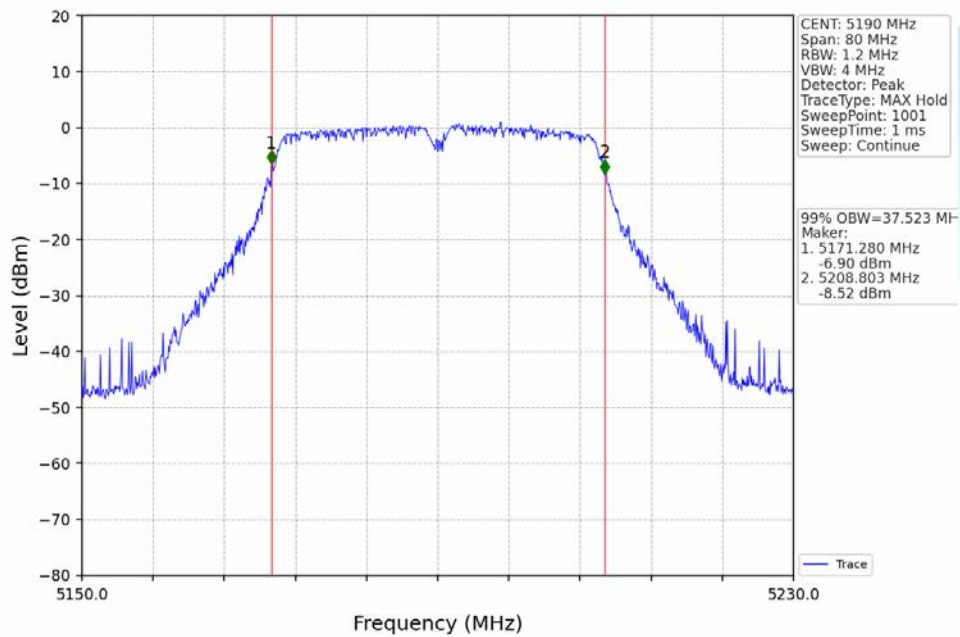
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



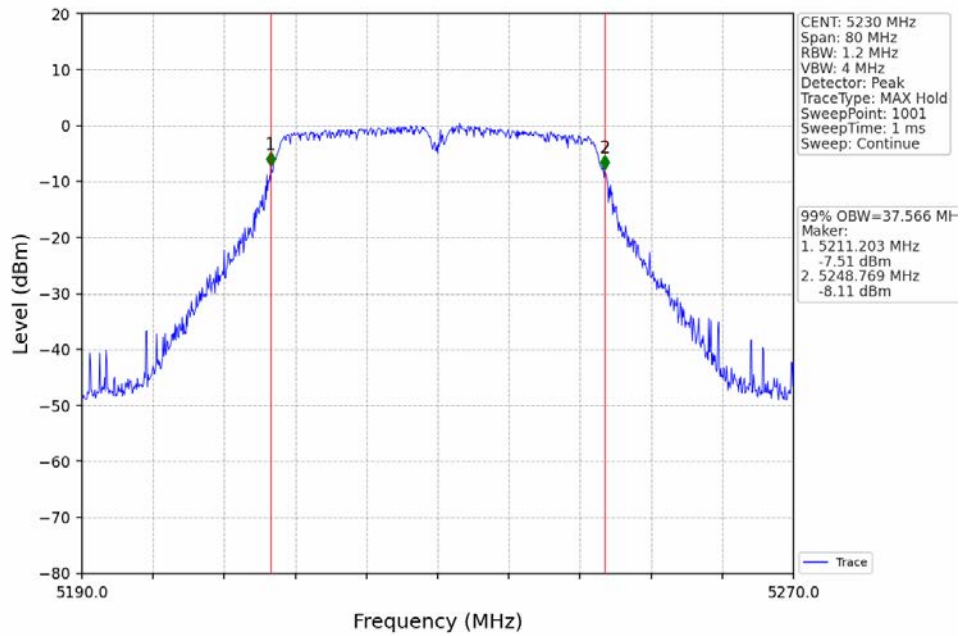
802.11ac(VHT20) HCH_5240MHz_Ant1_NTNV



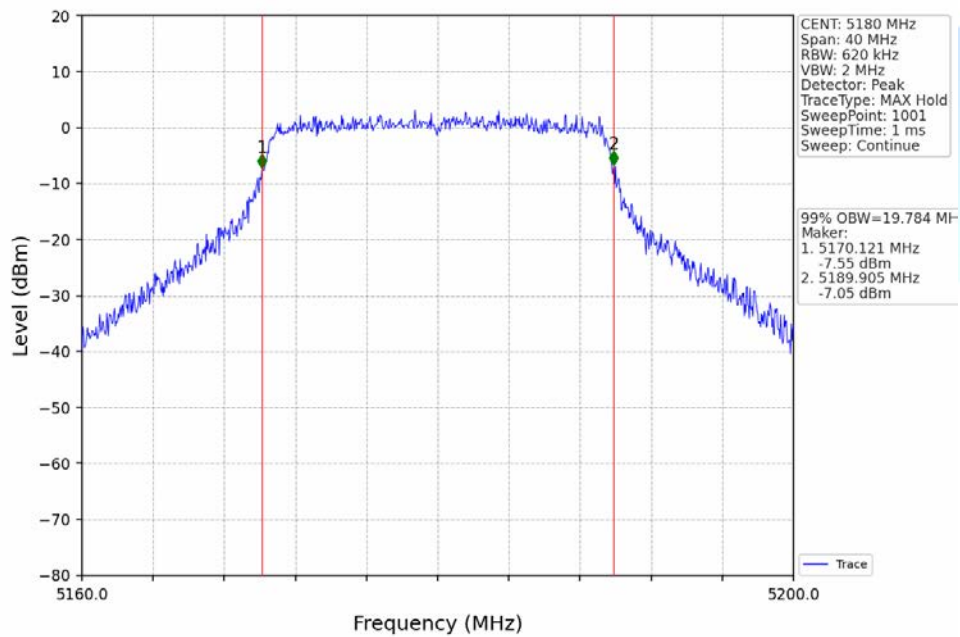
802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV



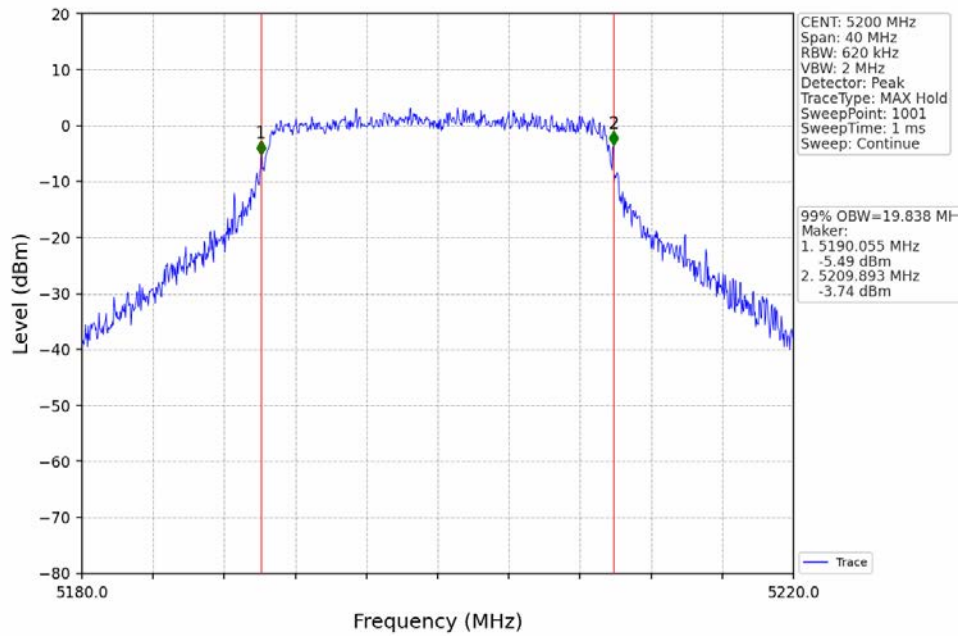
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



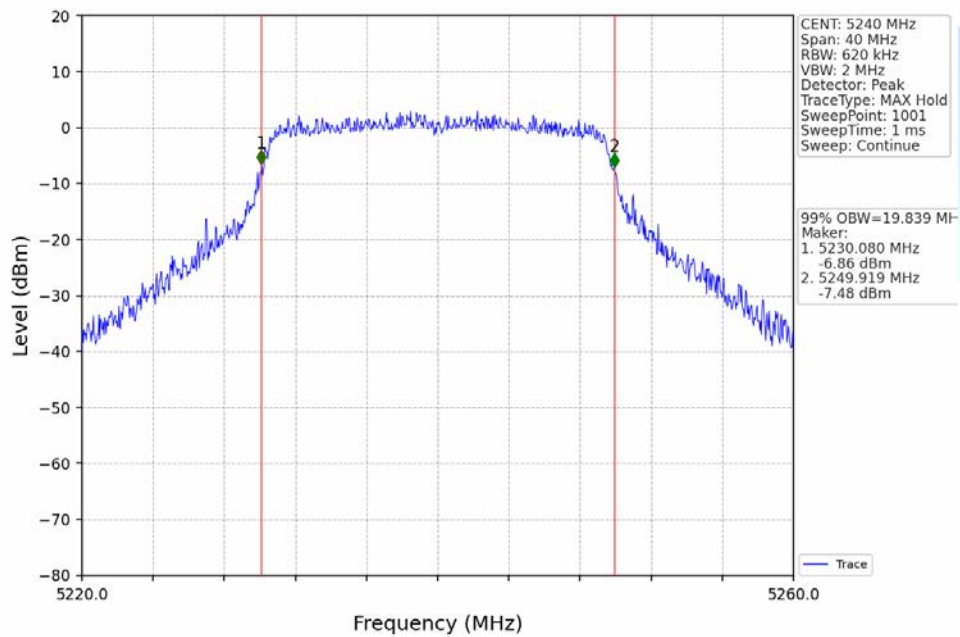
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



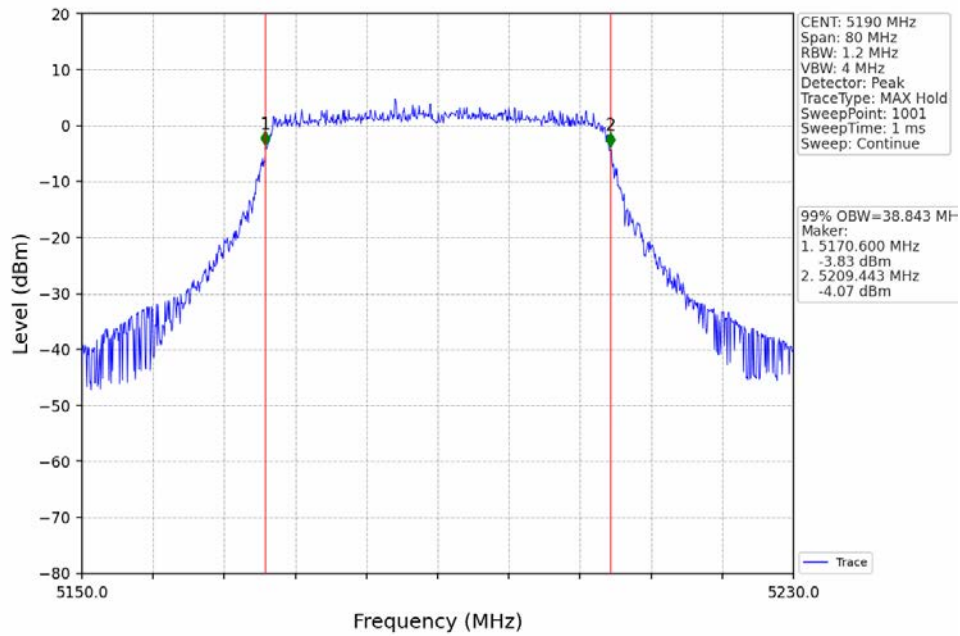
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



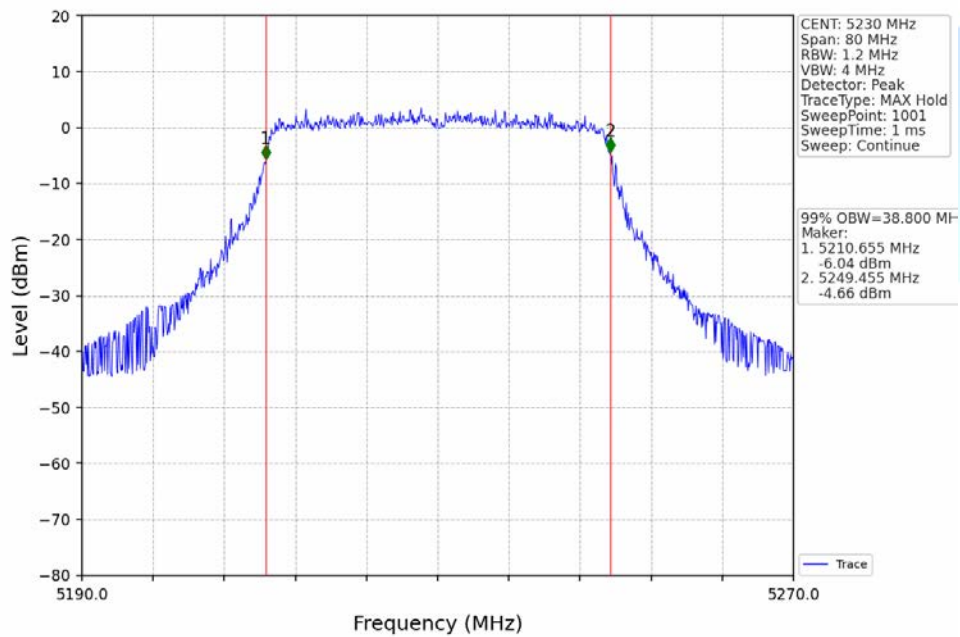
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



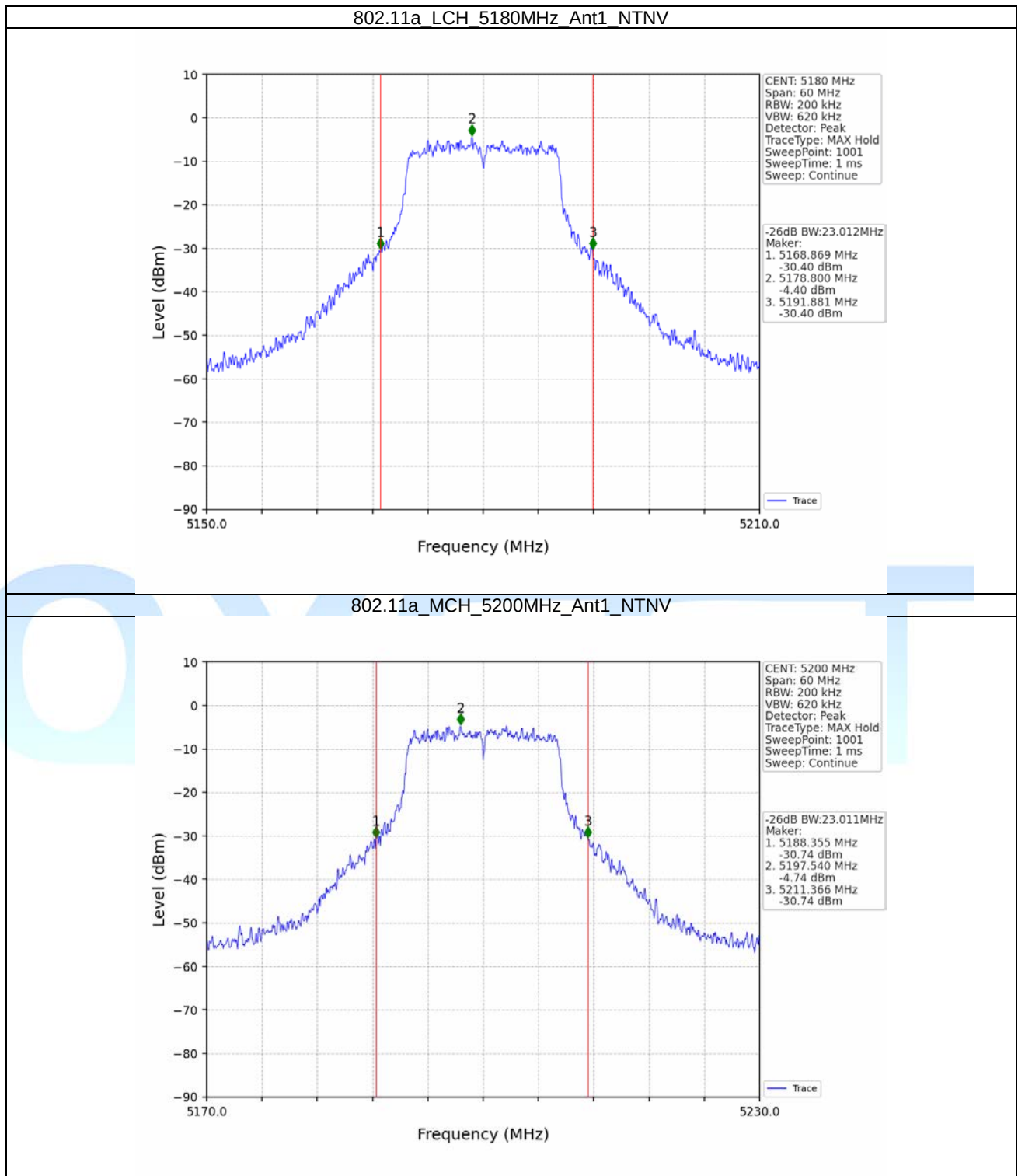
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



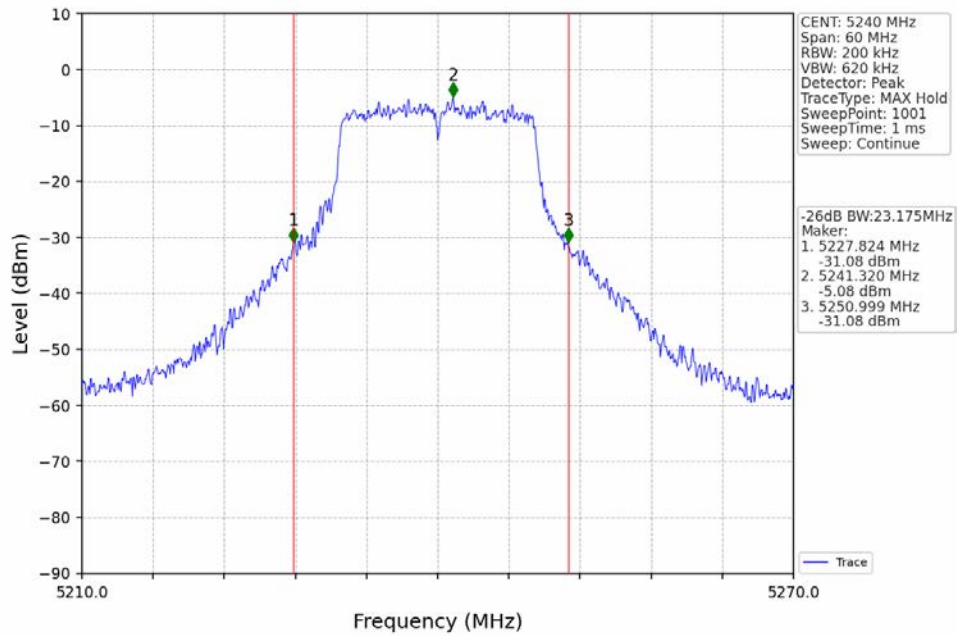
802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



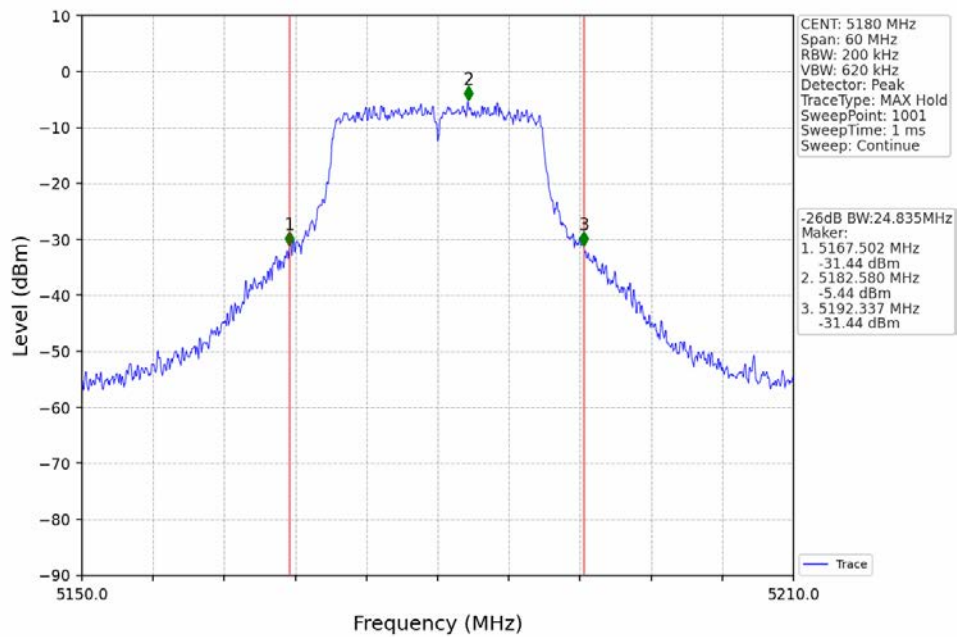
2.2.2 26dB BW



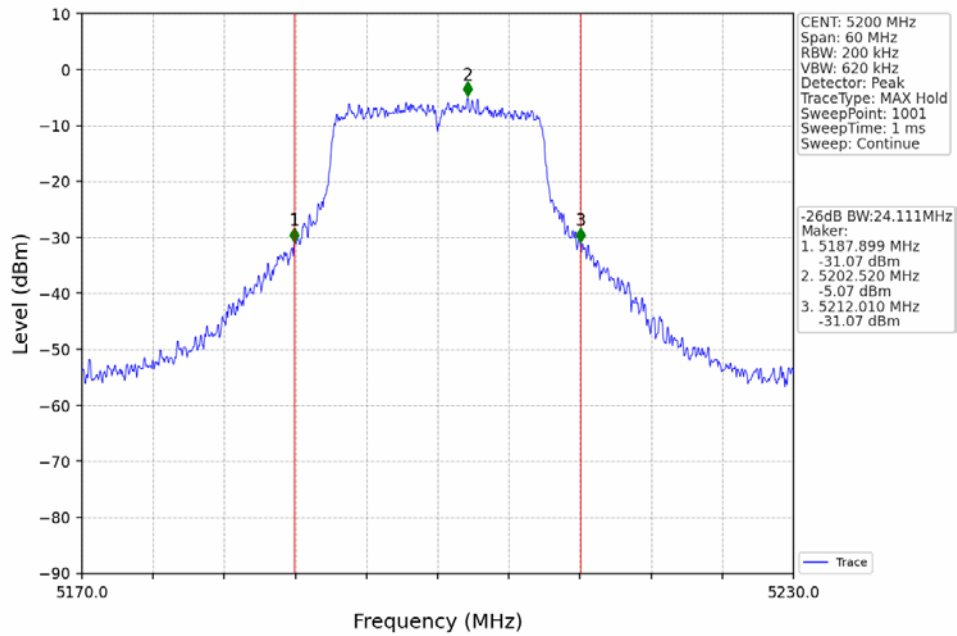
802.11a_HCH_5240MHz_Ant1_NTNV



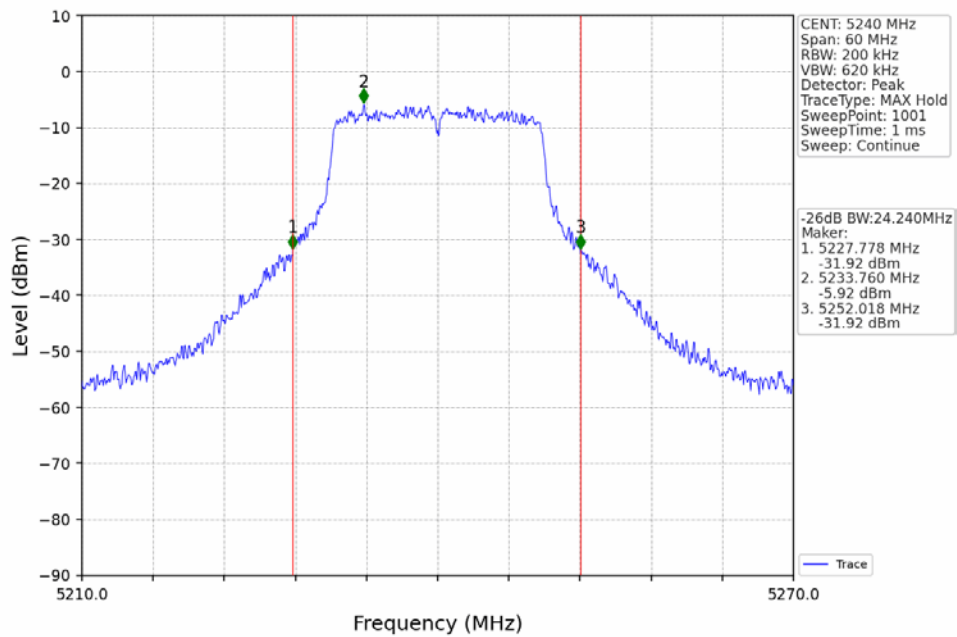
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



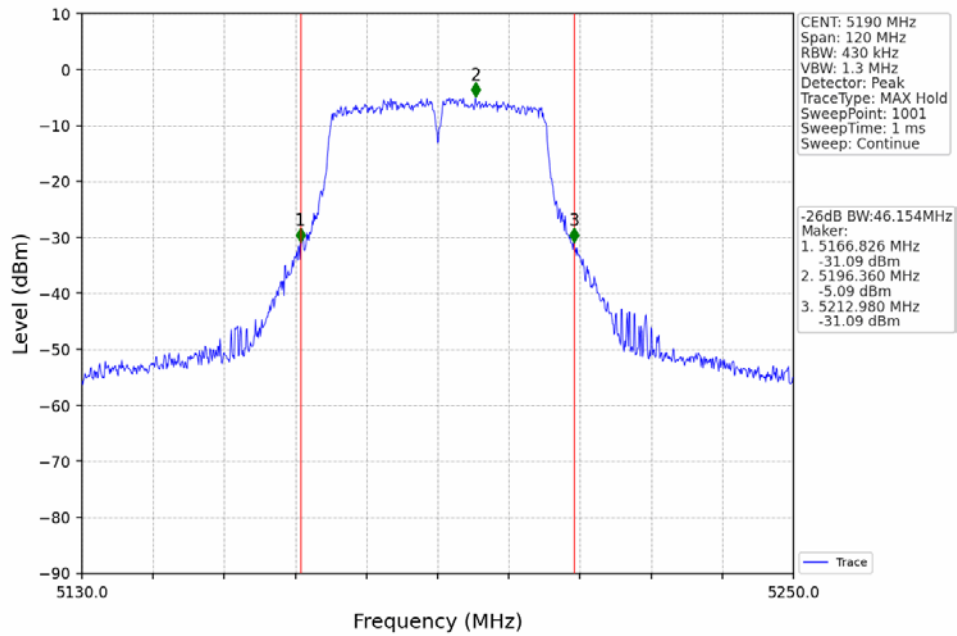
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



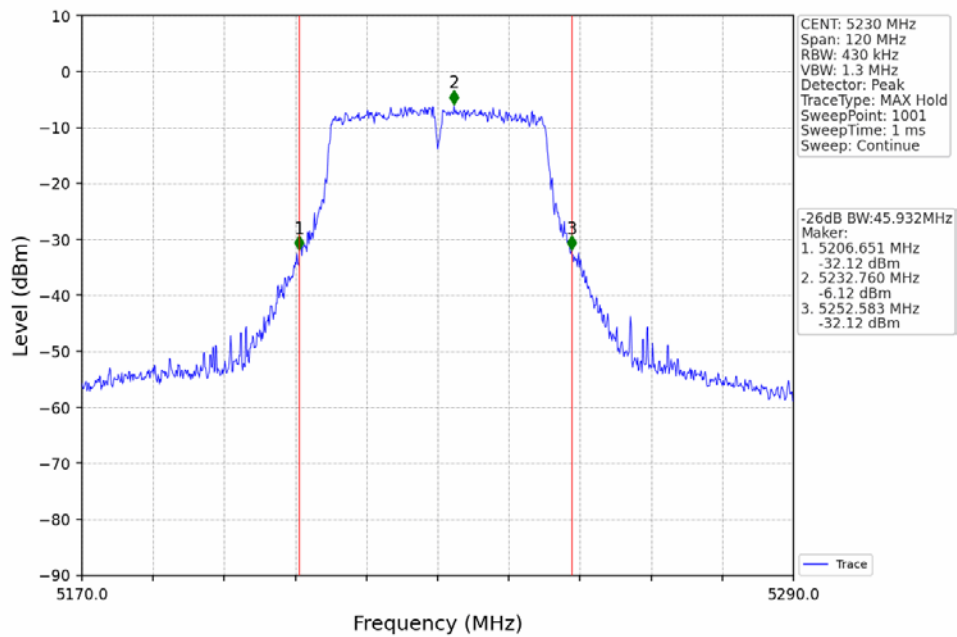
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



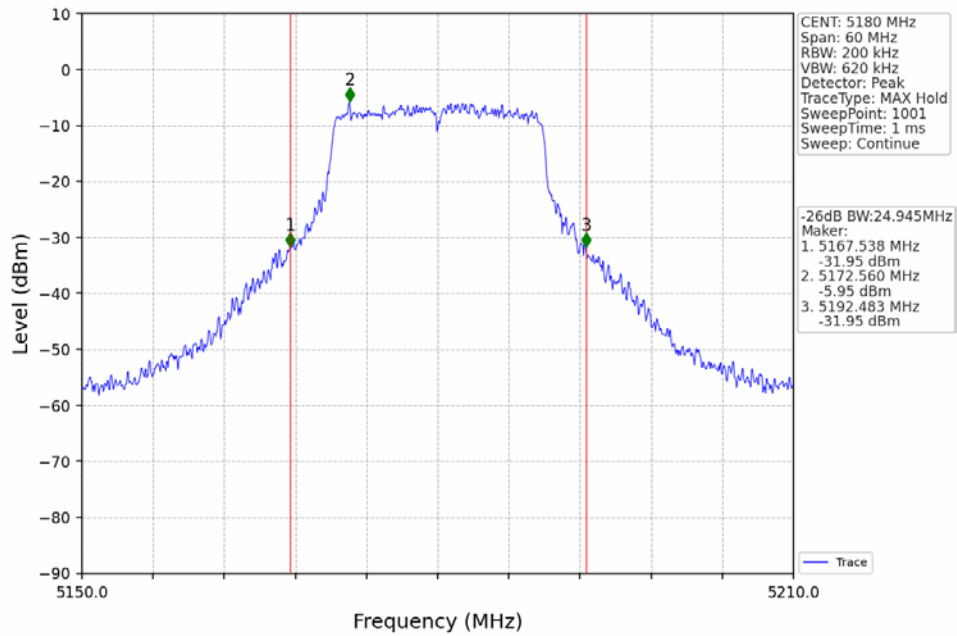
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



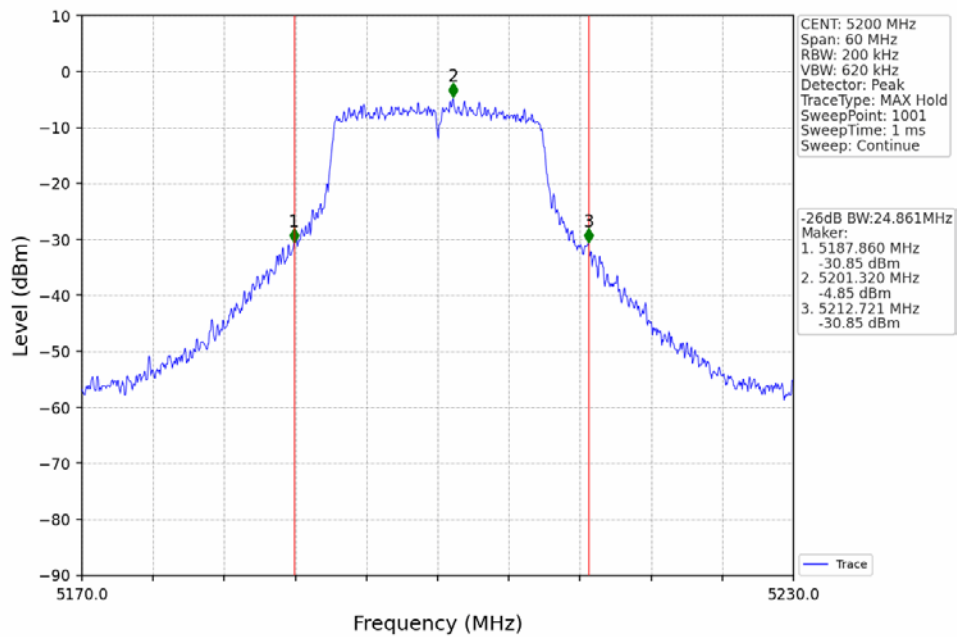
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



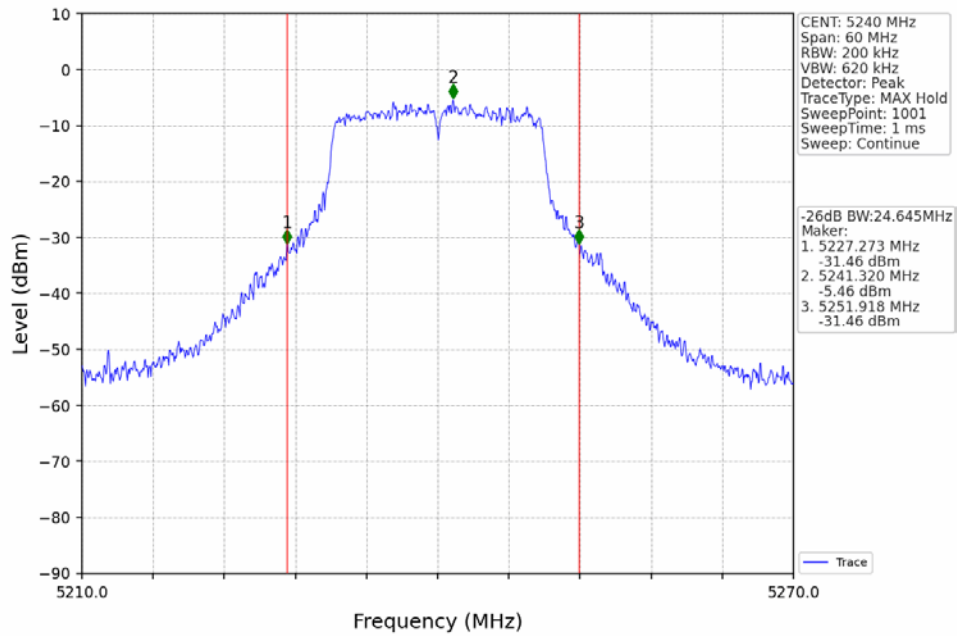
802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV



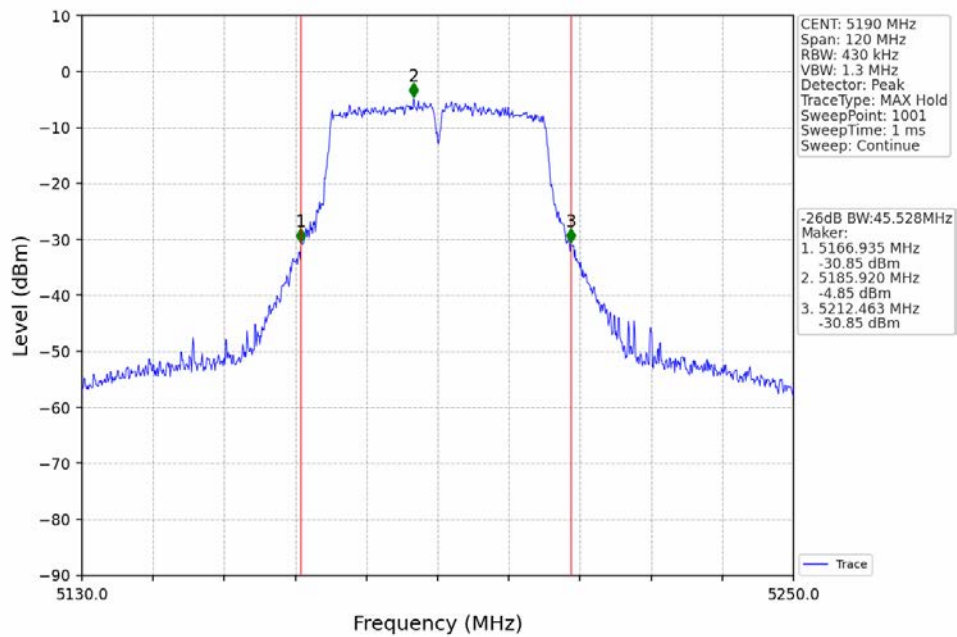
802.11ac(VHT20) MCH_5200MHz_Ant1_NTNV



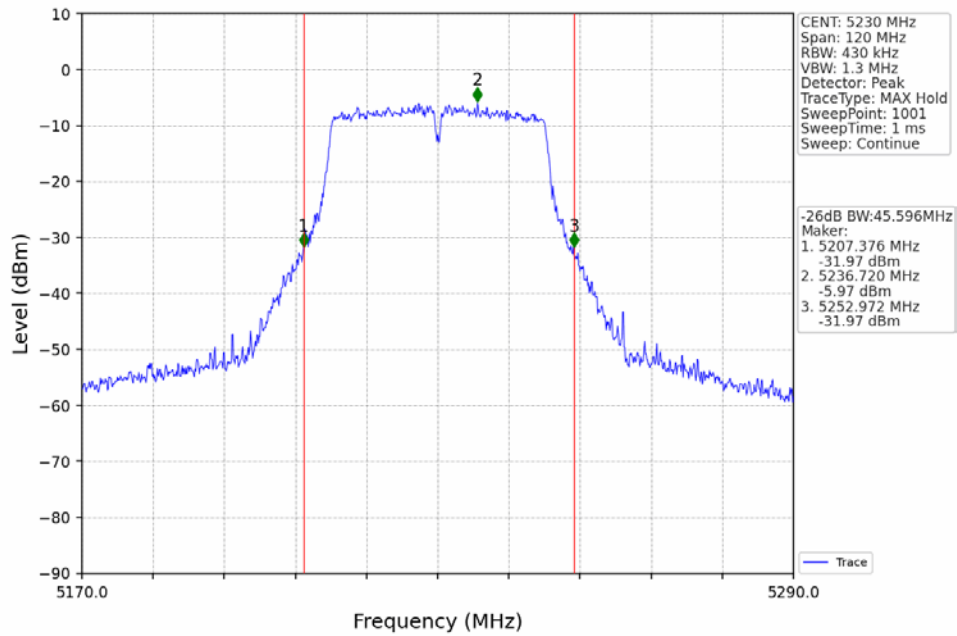
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



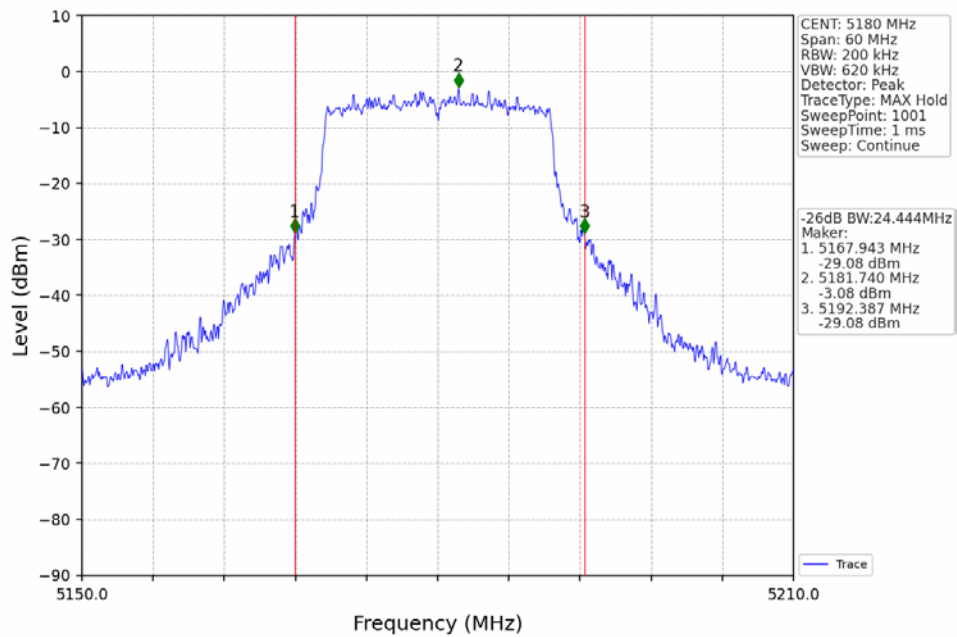
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



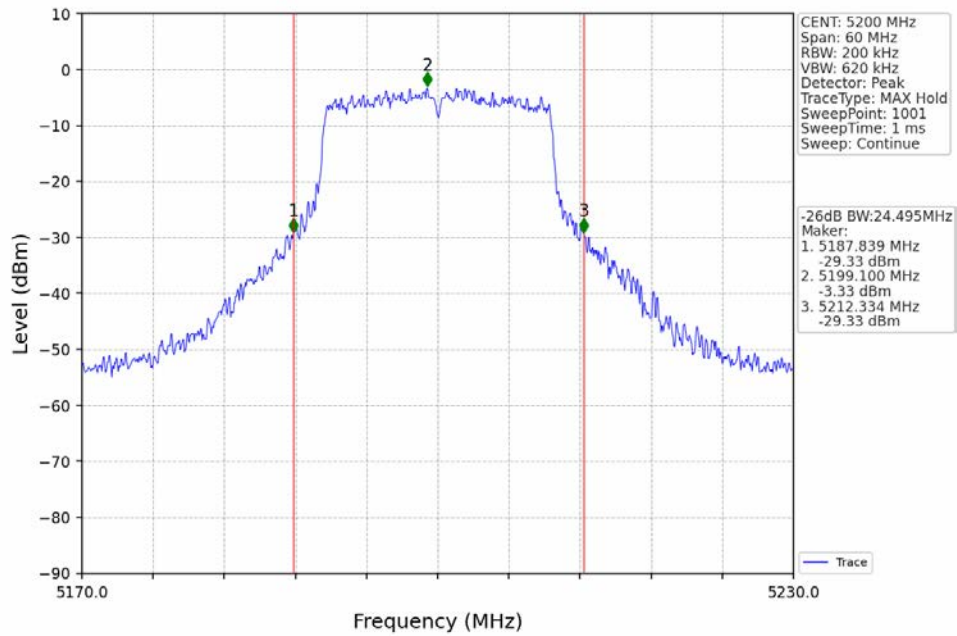
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



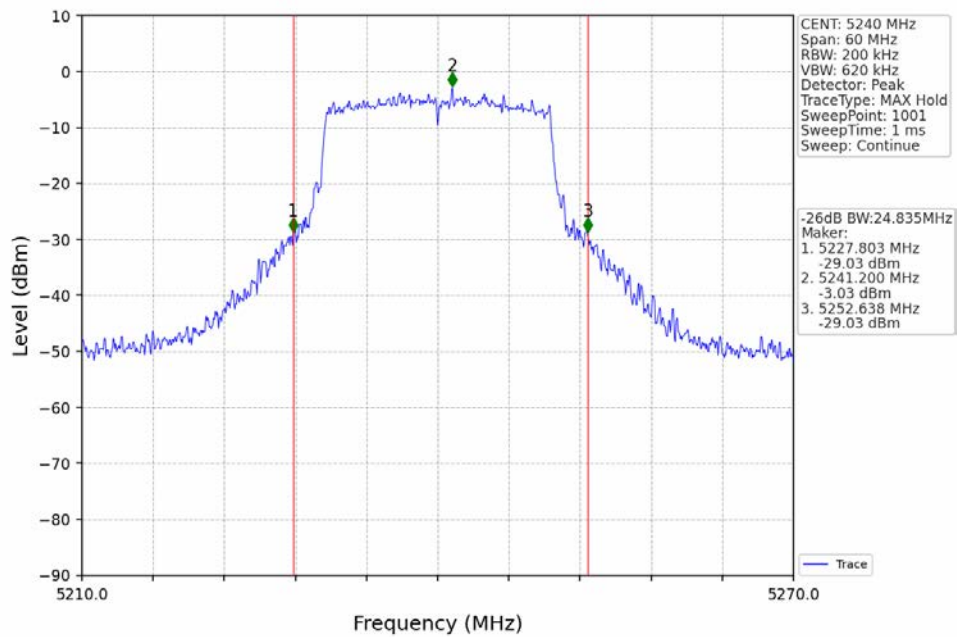
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



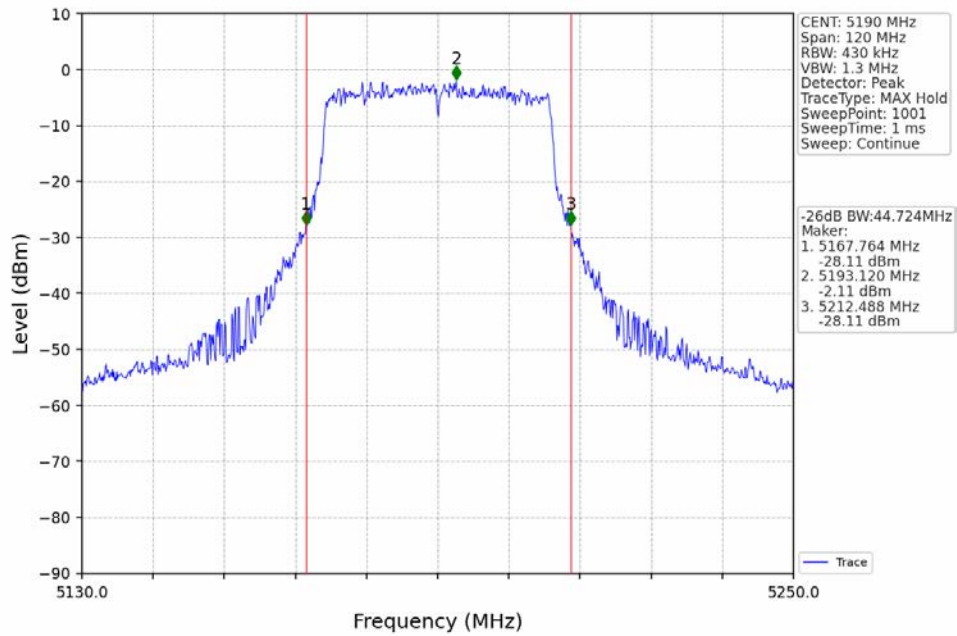
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



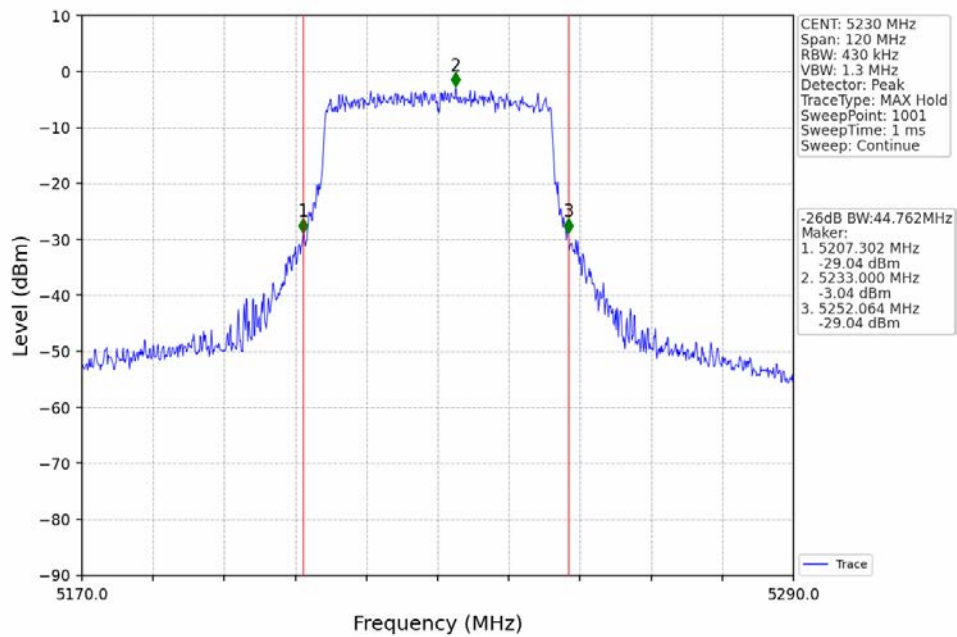
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11a	SISO	5180	/	/	5.21	<=23.98	Pass
		5200	/	/	6.28	<=23.98	Pass
		5240	/	/	5.31	<=23.98	Pass
802.11n (HT20)	SISO	5180	/	/	5.81	<=23.98	Pass
		5200	/	/	5.39	<=23.98	Pass
		5240	/	/	5.01	<=23.98	Pass
802.11n (HT40)	SISO	5190	/	/	5.44	<=23.98	Pass
		5230	/	/	4.86	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	/	/	5.61	<=23.98	Pass
		5200	/	/	5.87	<=23.98	Pass
		5240	/	/	4.88	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	/	/	5.57	<=23.98	Pass
		5230	/	/	5.07	<=23.98	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	6.23	<=23.98	Pass
		5200	RU242	Left	6.90	<=23.98	Pass
		5240	RU242	Left	6.18	<=23.98	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	5.96	<=23.98	Pass
		5230	RU484	Left	5.92	<=23.98	Pass

Note1: Antenna Gain: Ant1: 2.53dBi;

4. Maximum Power Spectral Density

4.1 Test Result

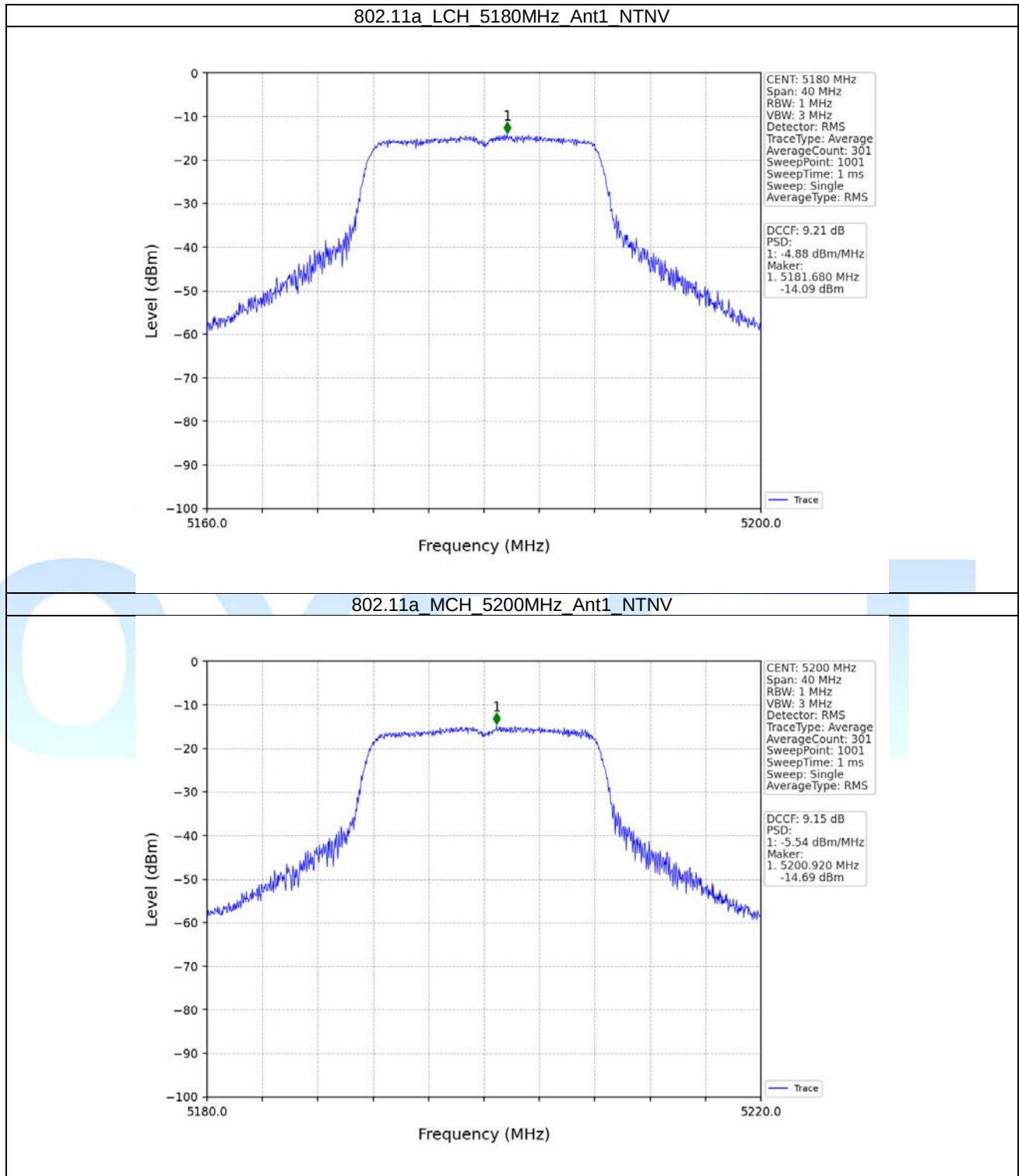
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)		Verdict
					ANT1	Limit	
802.11a	SISO	5180	/	/	-4.88	<=11	Pass
		5200	/	/	-5.54	<=11	Pass
		5240	/	/	-5.76	<=11	Pass
802.11n (HT20)	SISO	5180	/	/	-5.50	<=11	Pass
		5200	/	/	-5.38	<=11	Pass
		5240	/	/	-5.97	<=11	Pass
802.11n (HT40)	SISO	5190	/	/	-8.70	<=11	Pass
		5230	/	/	-9.02	<=11	Pass
802.11ac (VHT20)	SISO	5180	/	/	-5.60	<=11	Pass
		5200	/	/	-5.61	<=11	Pass
		5240	/	/	-5.92	<=11	Pass
802.11ac (VHT40)	SISO	5190	/	/	-8.63	<=11	Pass
		5230	/	/	-8.91	<=11	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	-4.53	<=11	Pass
		5200	RU242	Left	-4.66	<=11	Pass
		5240	RU242	Left	-4.74	<=11	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	-7.50	<=11	Pass
		5230	RU484	Left	-8.17	<=11	Pass

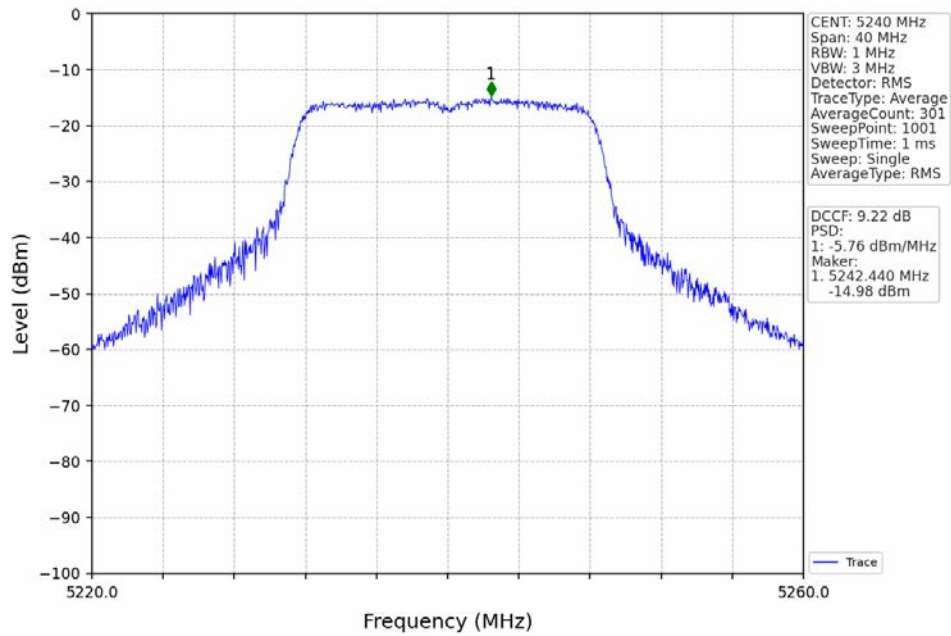
Note1: Antenna Gain: Ant1: 2.53dBi;

4.2 Test Graph

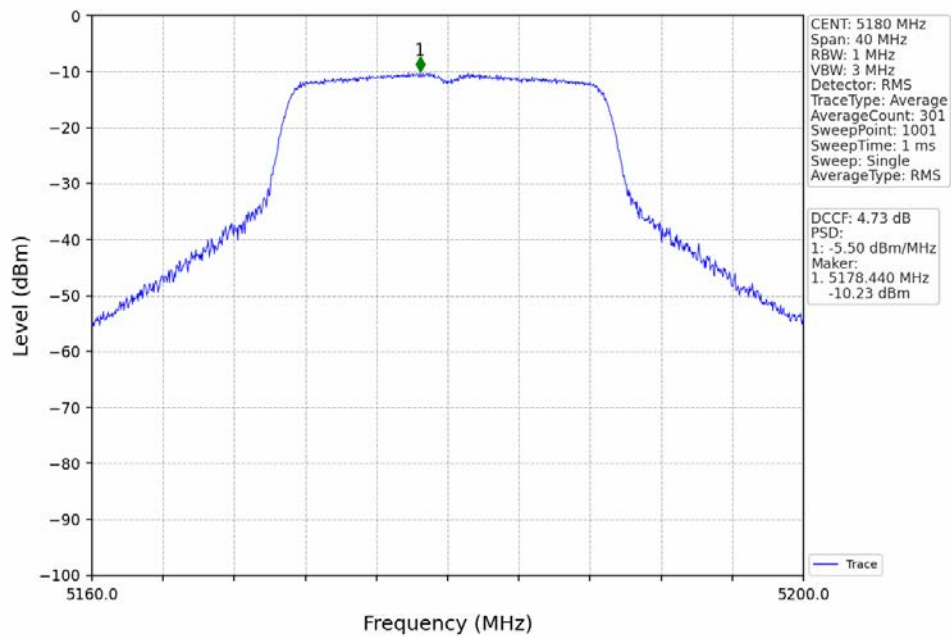
4.2.1 PSD



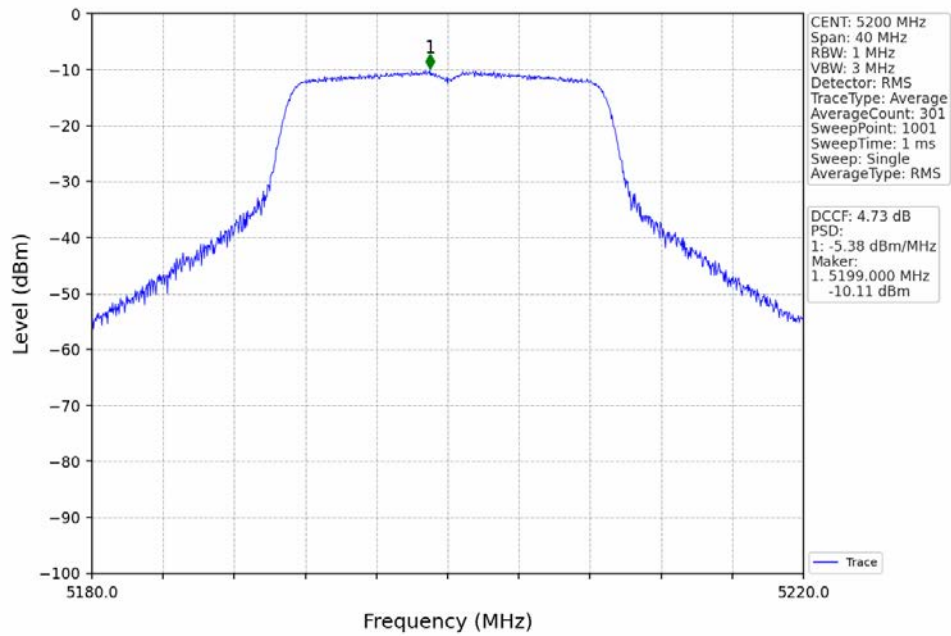
802.11a_HCH_5240MHz_Ant1_NTNV



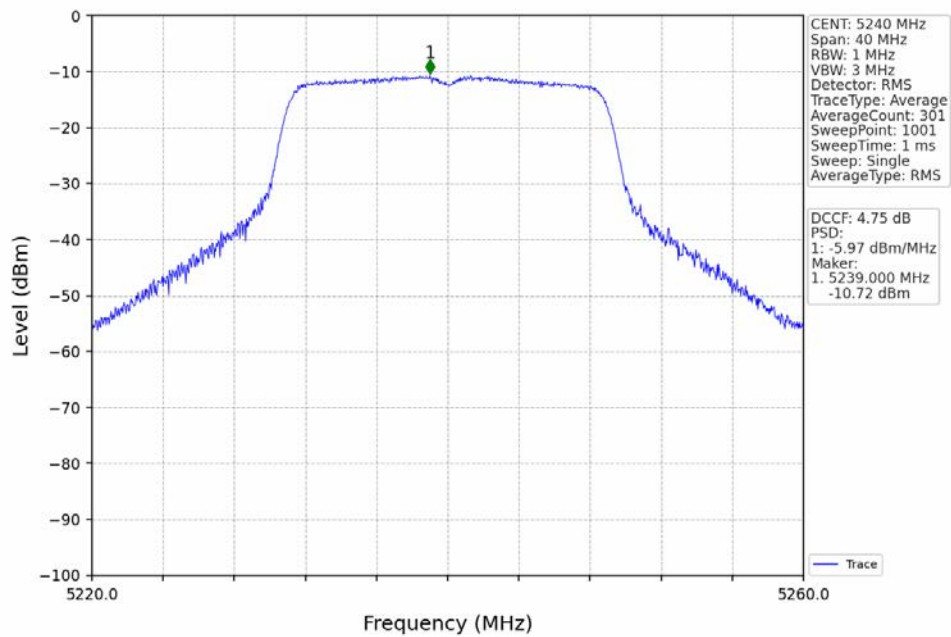
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



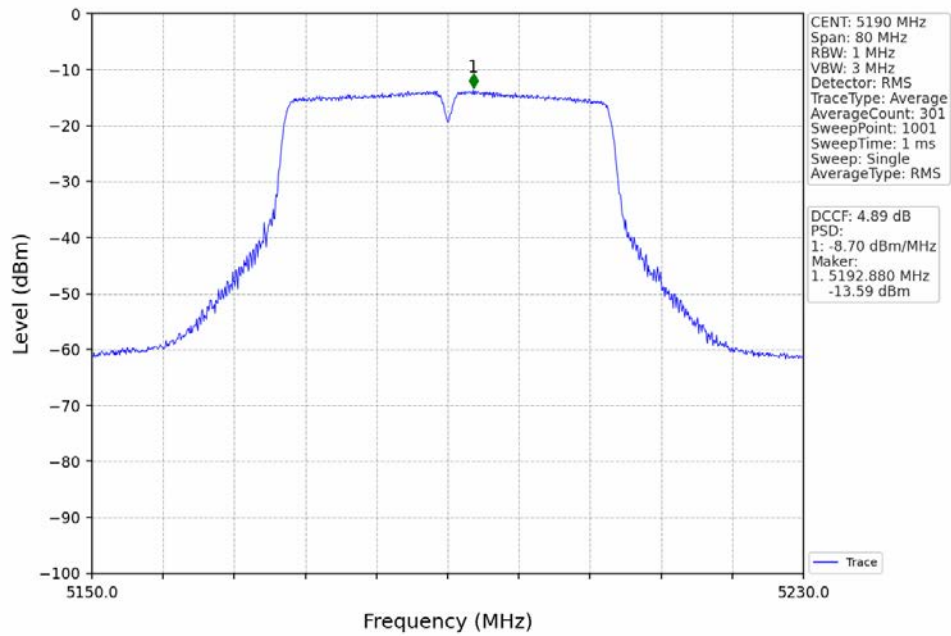
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



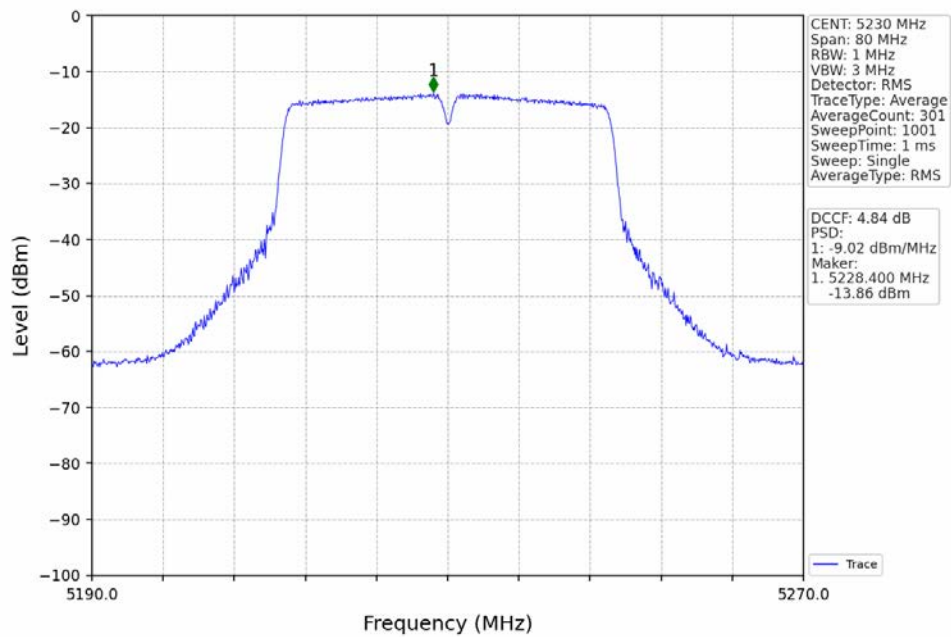
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



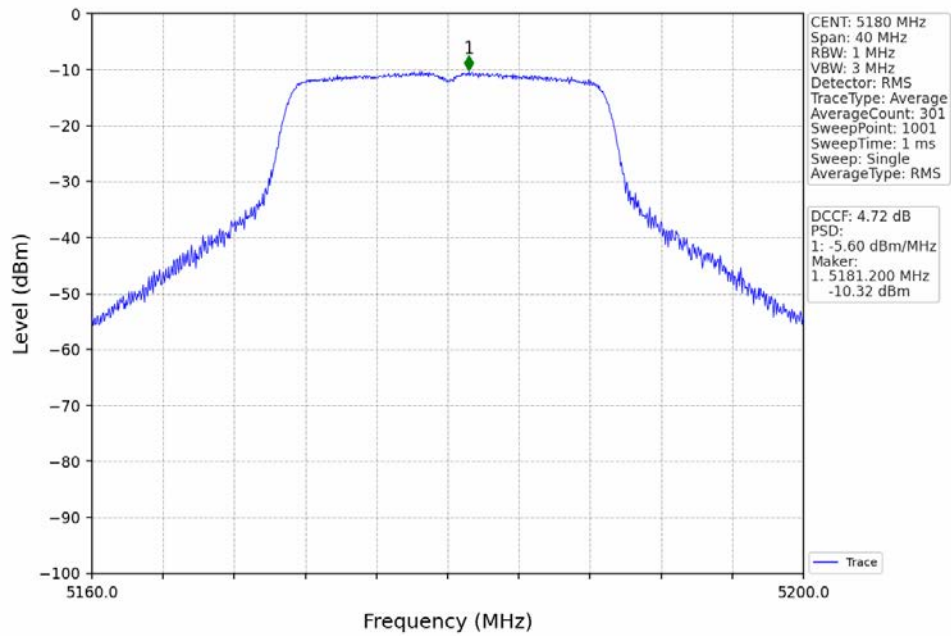
802.11n(HT40) LCH 5190MHz_Ant1_NTNV



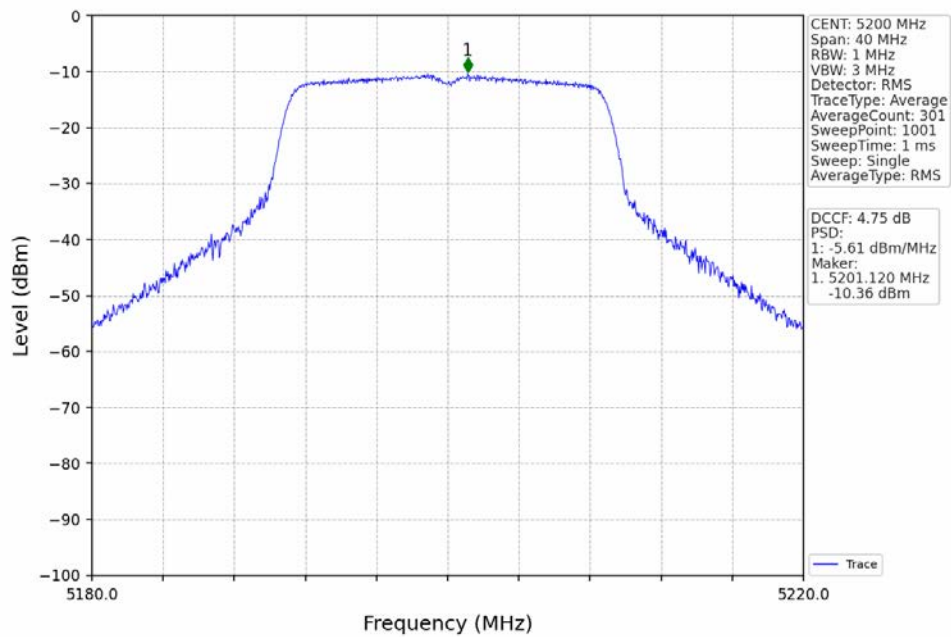
802.11n(HT40) HCH 5230MHz_Ant1_NTNV



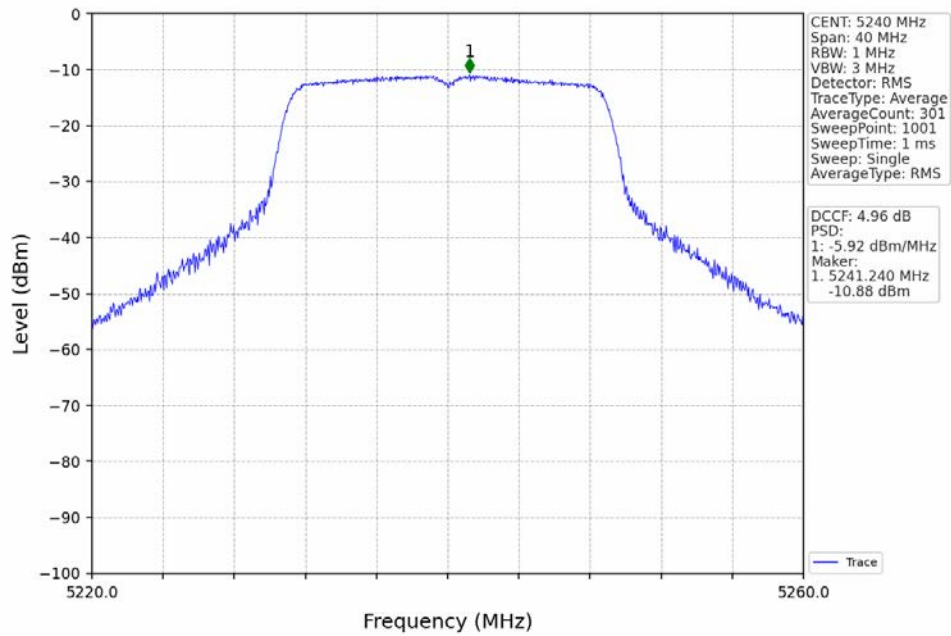
802.11ac(VHT20) LCH 5180MHz_Ant1_NTNV



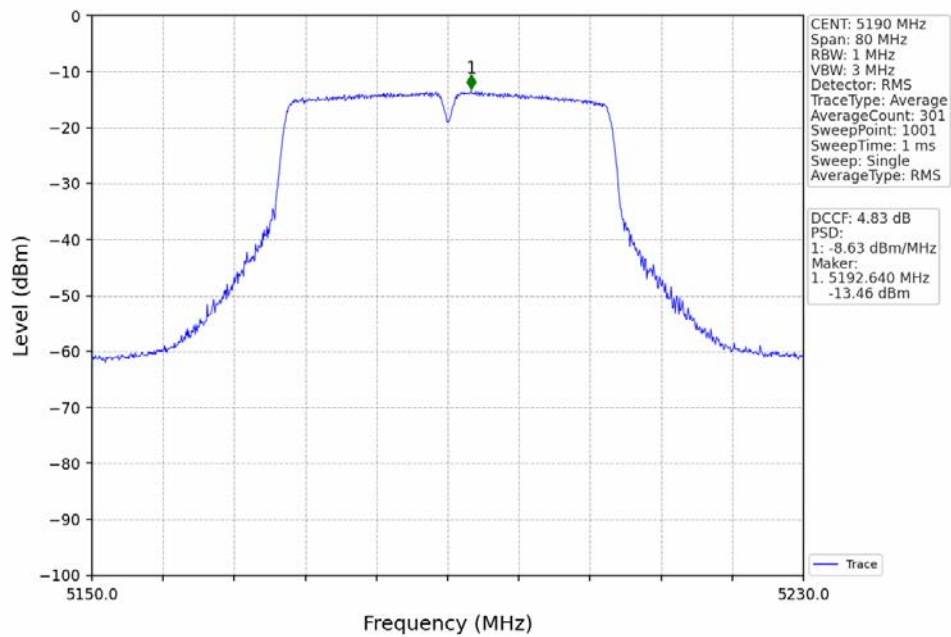
802.11ac(VHT20) MCH 5200MHz_Ant1_NTNV



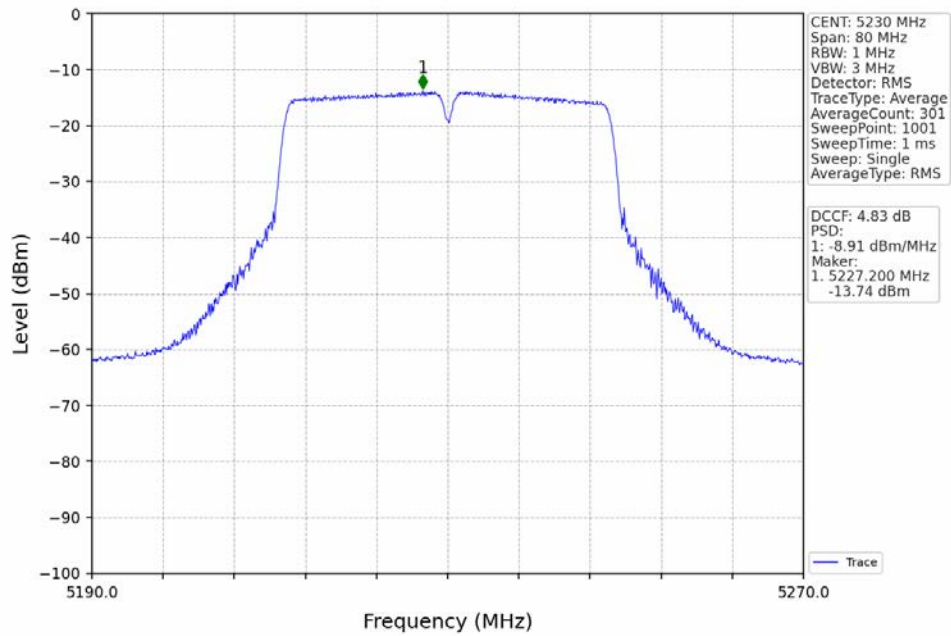
802.11ac(VHT20) HCH 5240MHz_Ant1_NTNV



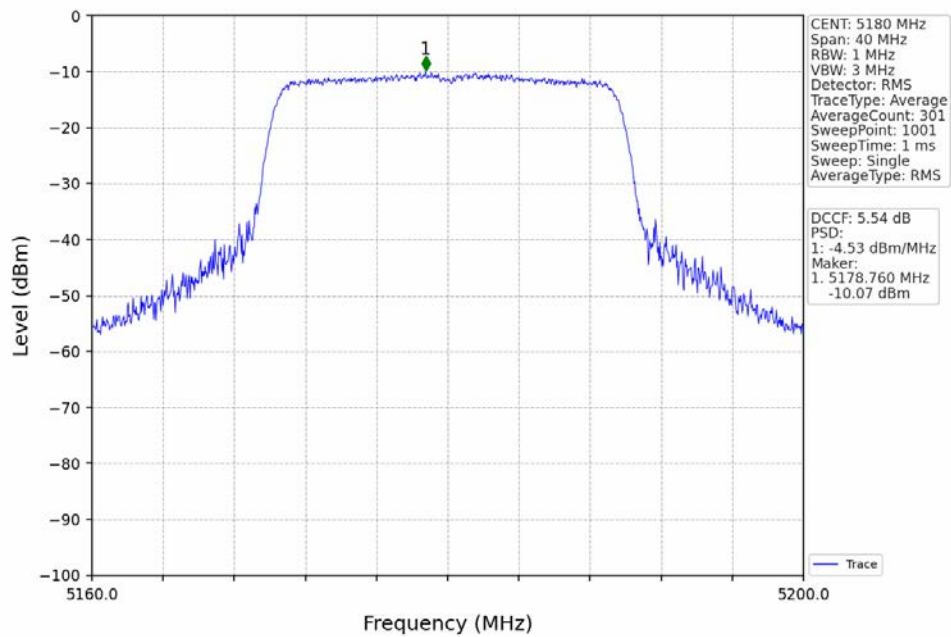
802.11ac(VHT40) LCH 5190MHz_Ant1_NTNV



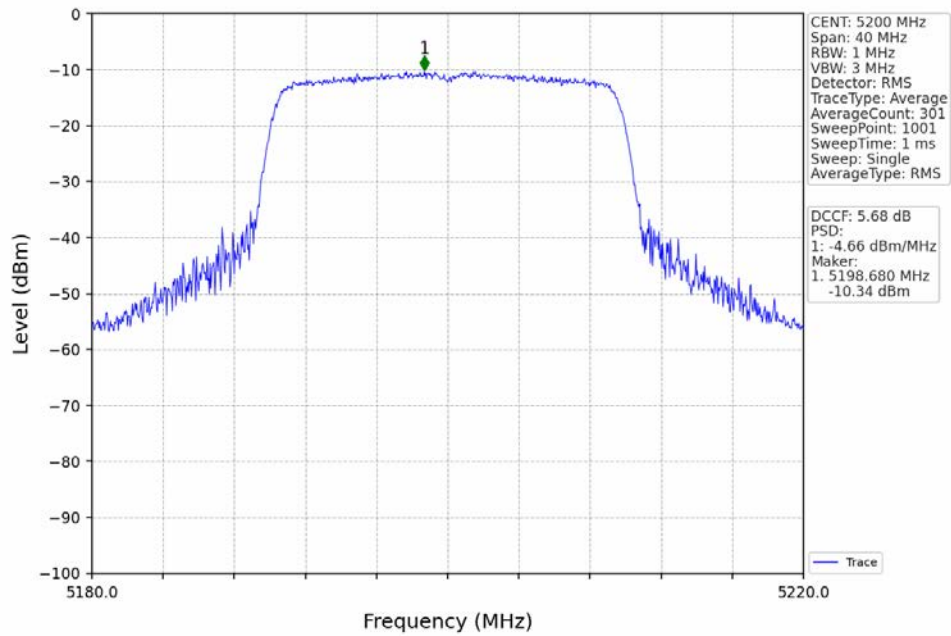
802.11ac(VHT40) HCH 5230MHz_Ant1_NTNV



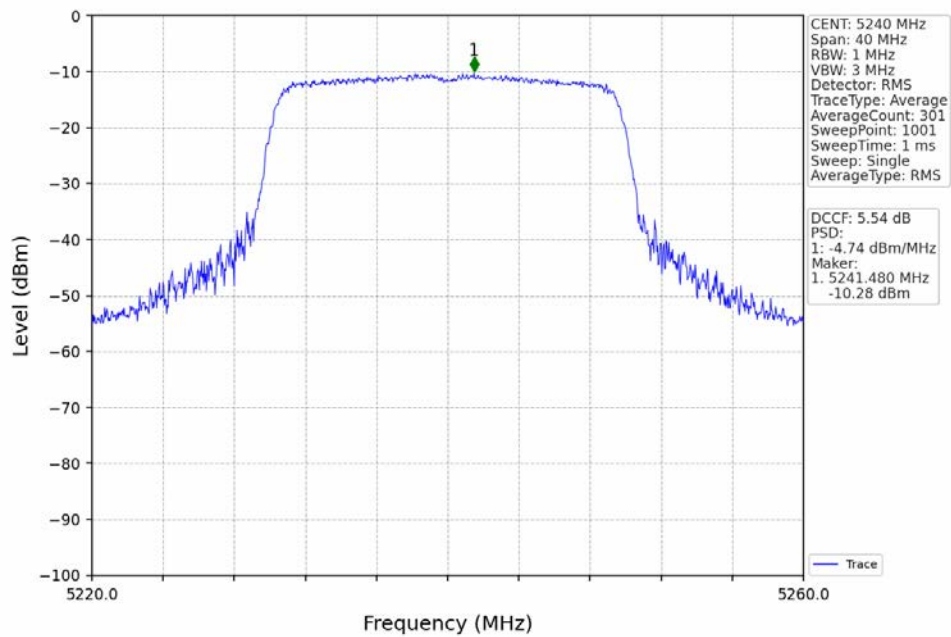
802.11ax(HEW20) LCH 5180MHz_RU242_Left_Ant1_NTNV



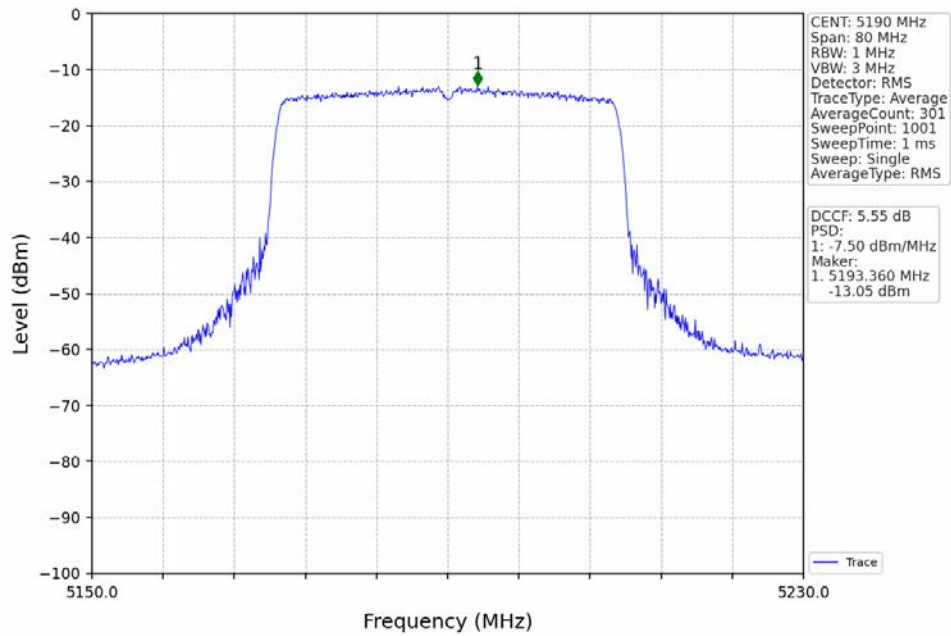
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



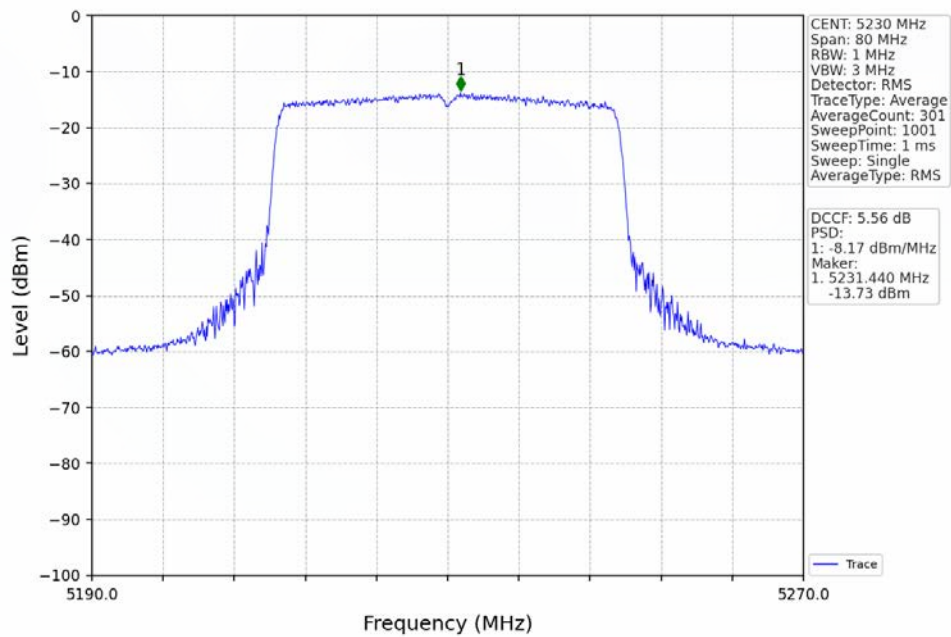
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



5. Unwanted Emissions In Restricted Frequency Bands

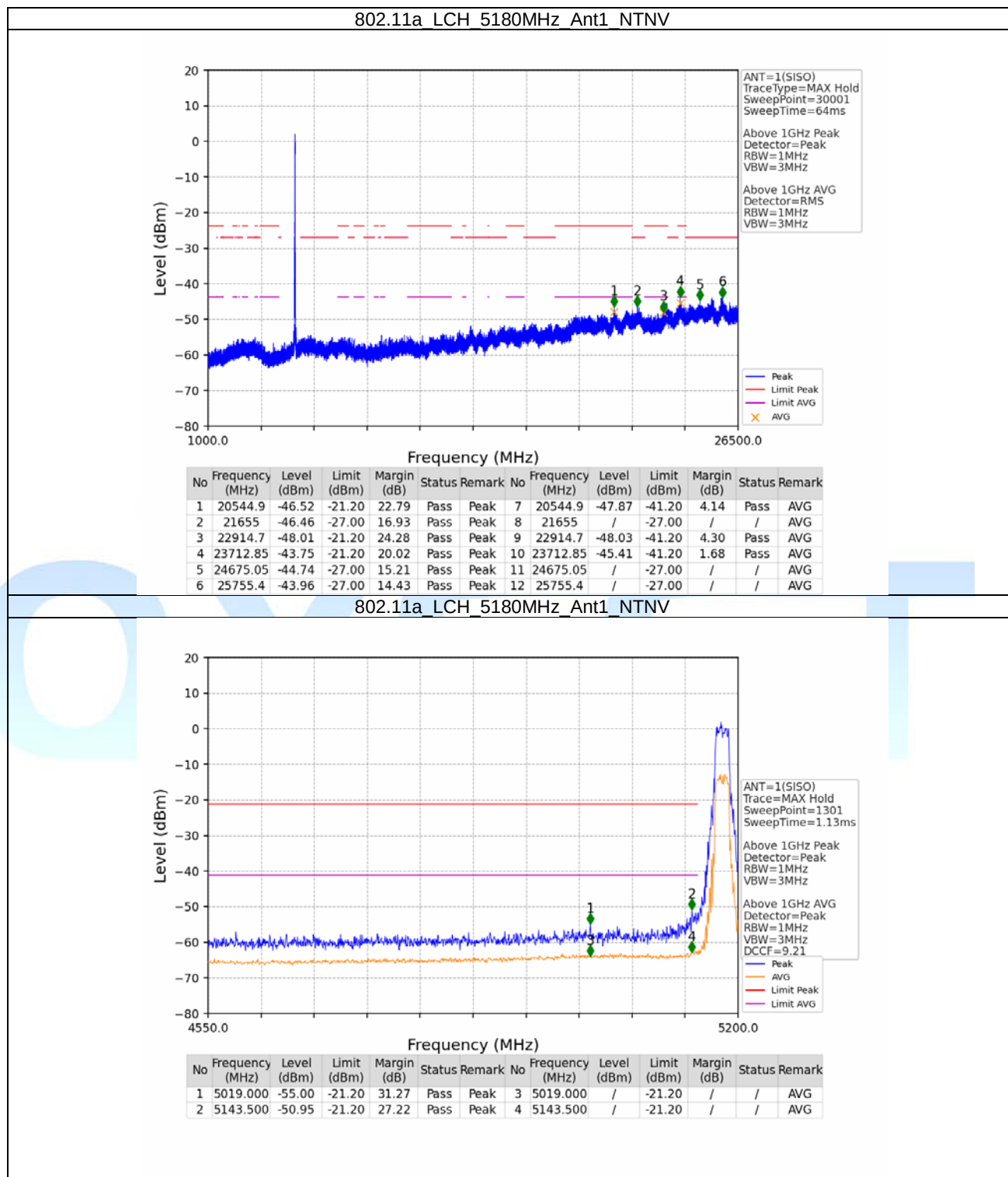
5.1 Test Result

5.1.1 RSE

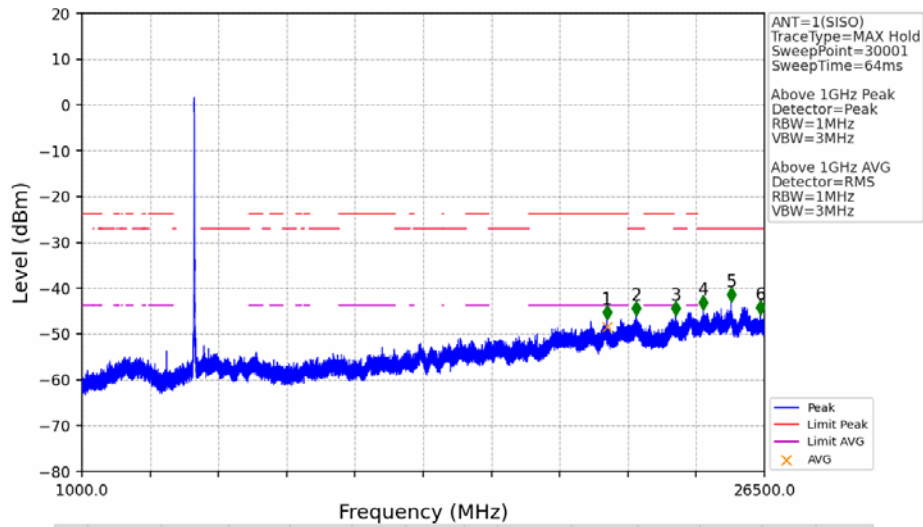
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Unwanted Emissions (dBm)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	Refer To Test Graph		Pass
		5200	/	/	1	Refer To Test Graph		Pass
		5240	/	/	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5180	/	/	1	Refer To Test Graph		Pass
		5200	/	/	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
802.11ax (HEW20)	SISO	5180	RU242	Left	1	Refer To Test Graph		Pass
		5200	RU242	Left	1	Refer To Test Graph		Pass
		5240	RU242	Left	1	Refer To Test Graph		Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	Refer To Test Graph		Pass
		5230	RU484	Left	1	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 RSE

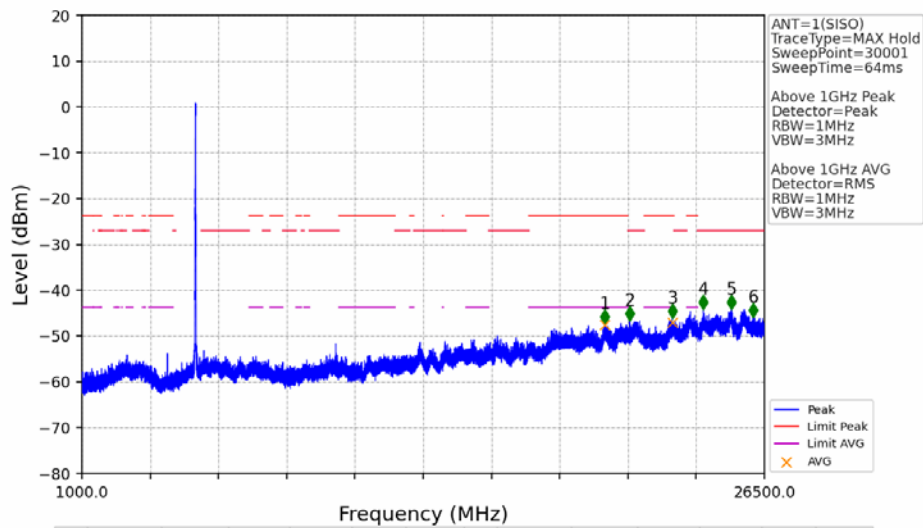


802.11a_MCH_5200MHz_Ant1_NTNV



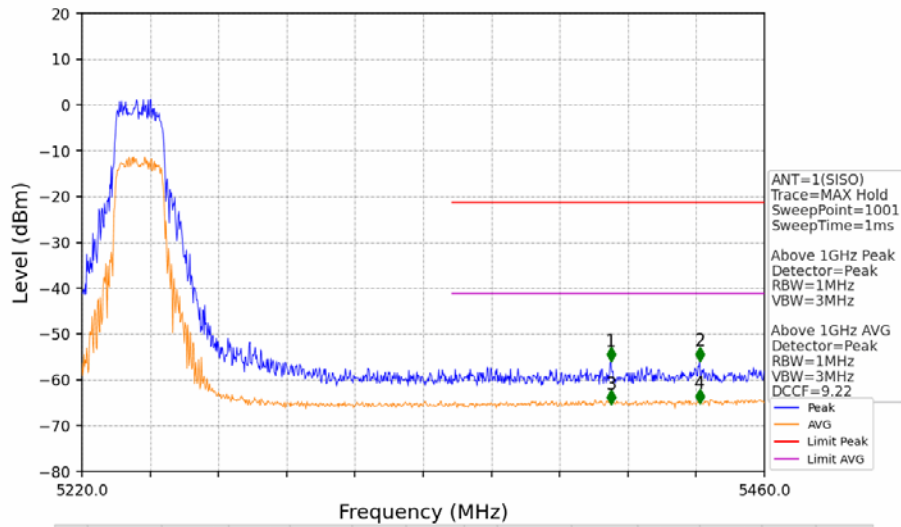
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20615.45	-46.88	-21.20	23.15	Pass	Peak	7	20615.45	-48.45	-41.20	4.71	Pass	AVG
2	21709.4	-45.99	-27.00	16.46	Pass	Peak	8	21709.4	/	-27.00	/	/	AVG
3	23181.6	-45.93	-27.00	16.40	Pass	Peak	9	23181.6	/	-27.00	/	/	AVG
4	24220.3	-44.75	-27.00	15.22	Pass	Peak	10	24220.3	/	-27.00	/	/	AVG
5	25251.35	-42.95	-27.00	13.42	Pass	Peak	11	25251.35	/	-27.00	/	/	AVG
6	26346.15	-45.76	-27.00	16.23	Pass	Peak	12	26346.15	/	-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	20531.3	-47.38	-21.20	23.65	Pass	Peak	7	20531.3	-47.60	-41.20	3.87	Pass	AVG
2	21468	-46.74	-27.00	17.21	Pass	Peak	8	21468	/	-27.00	/	/	AVG
3	23049.85	-46.16	-21.20	22.43	Pass	Peak	9	23049.85	-47.05	-41.20	3.32	Pass	AVG
4	24220.3	-44.27	-27.00	14.74	Pass	Peak	10	24220.3	/	-27.00	/	/	AVG
5	25261.55	-44.16	-27.00	14.63	Pass	Peak	11	25261.55	/	-27.00	/	/	AVG
6	26075.85	-45.97	-27.00	16.44	Pass	Peak	12	26075.85	/	-27.00	/	/	AVG

802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

