1. Duty Cycle

1.1 Test Result

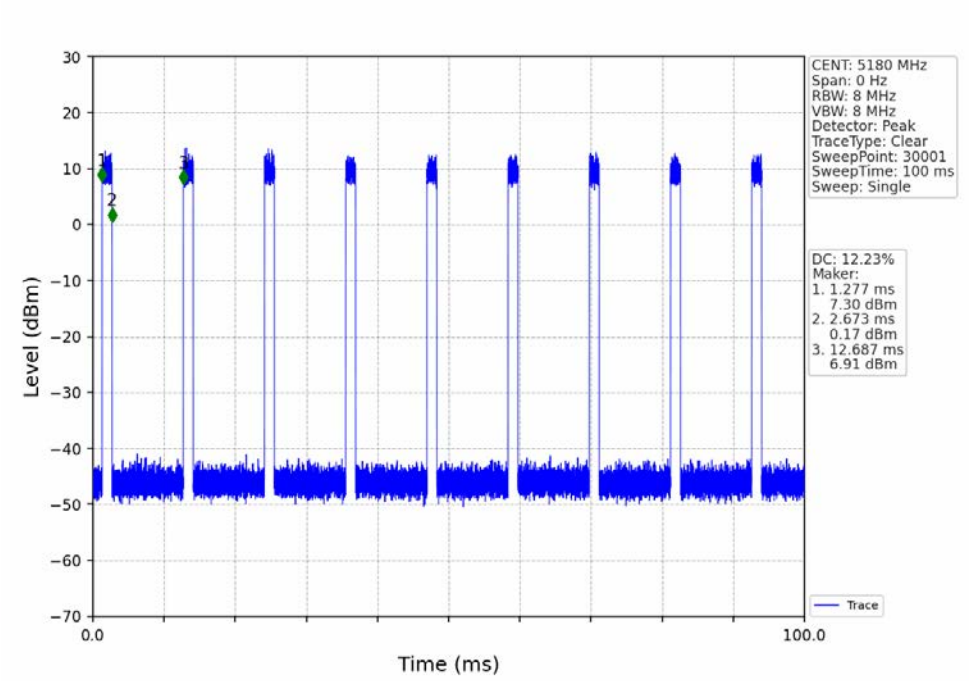
1.1.1 Ant1

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	/	/	1.396	11.410	12.23	9.12	0.03
		5200	/	/	1.400	11.966	11.70	9.32	0.56
		5240	/	/	1.396	11.416	12.23	9.13	0.03
802.11n (HT20)	SISO	5180	/	/	5.090	15.110	33.69	4.73	0.01
		5200	/	/	5.093	16.200	31.44	5.03	2.28
		5240	/	/	5.090	15.150	33.60	4.74	0.10
802.11n (HT40)	SISO	5190	/	/	4.896	14.920	32.82	4.84	0.02
		5230	/	/	4.896	14.916	32.82	4.84	0.02
802.11ac (VHT20)	SISO	5180	/	/	5.100	15.813	32.25	4.91	1.49
		5200	/	/	5.100	16.460	30.98	5.09	2.76
		5240	/	/	5.097	15.117	33.72	4.72	0.03
802.11ac (VHT40)	SISO	5190	/	/	4.903	14.923	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	3.877	13.897	27.90	5.54	0.03
		5240	RU242	Left	3.880	13.974	27.77	5.56	0.15
802.11ax (HEW40)	SISO	5190	RU484	Left	3.873	13.897	27.87	5.55	0.02
		5230	RU484	Left	3.873	14.033	27.60	5.59	0.31

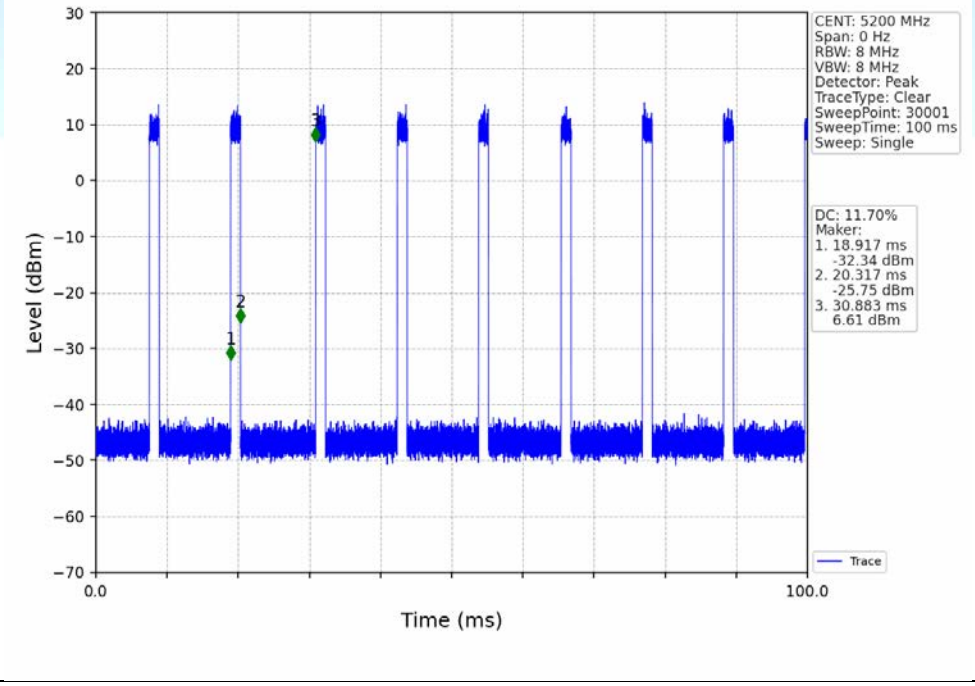
1.2 Test Graph

1.2.1 Ant1

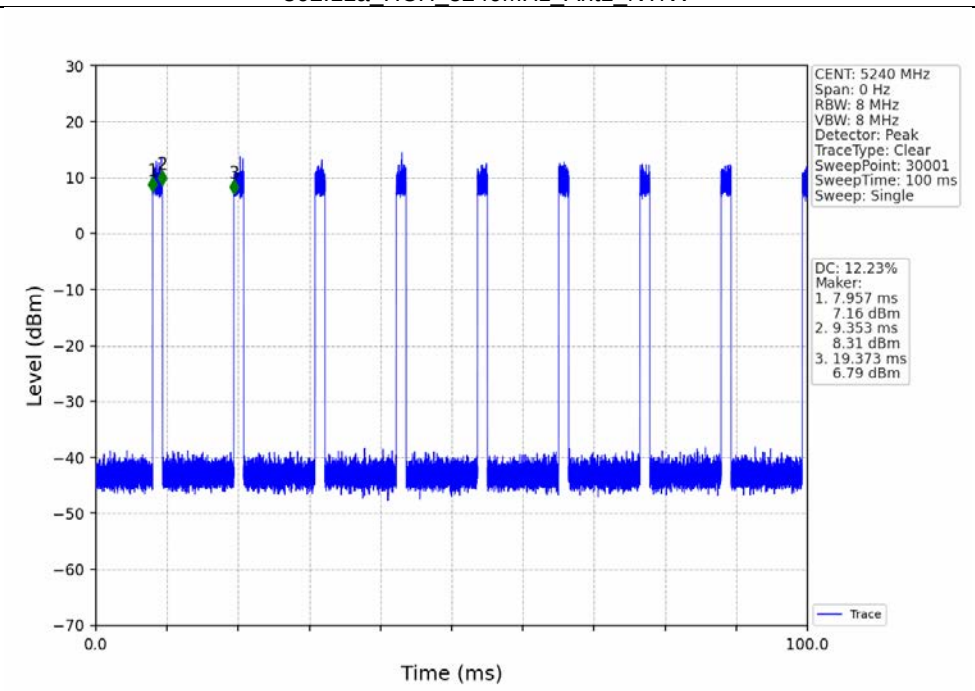
802.11a_LCH_5180MHz_Ant1_NTNV



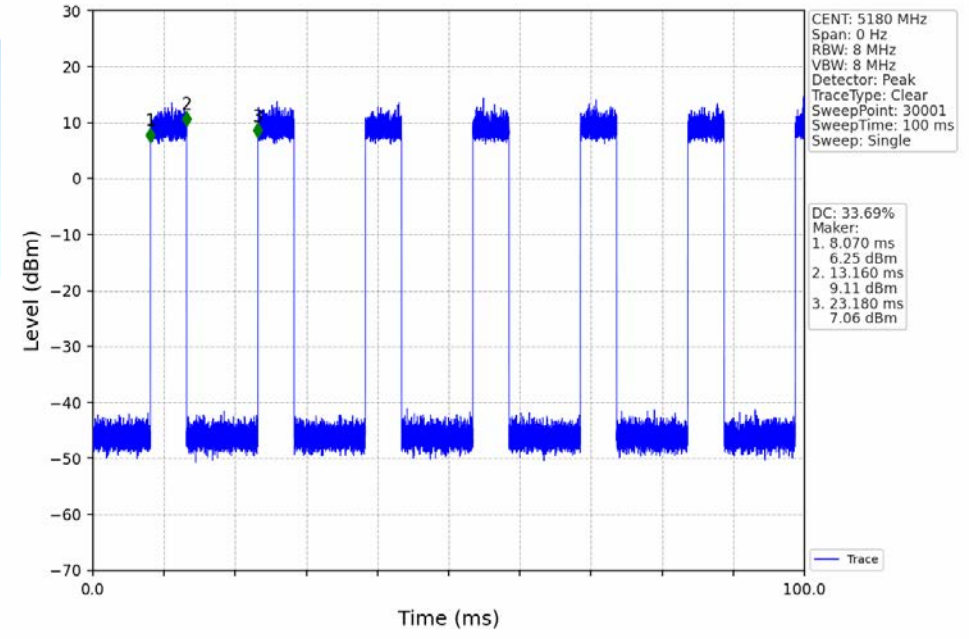
802.11a_MCH_5200MHz_Ant1_NTNV



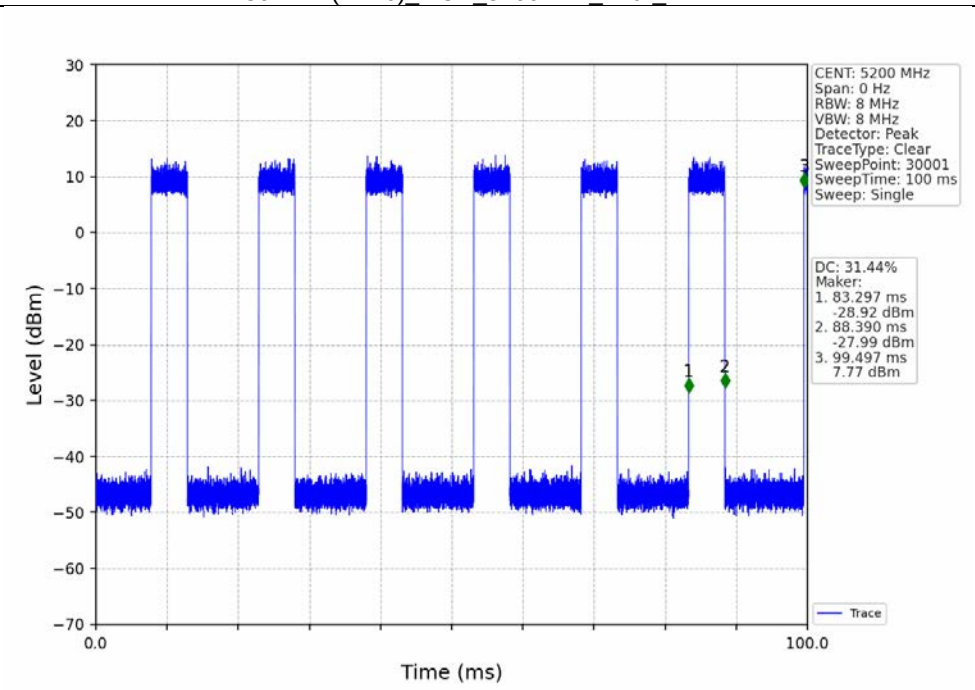
802.11a_HCH_5240MHz_Ant1_NTNV



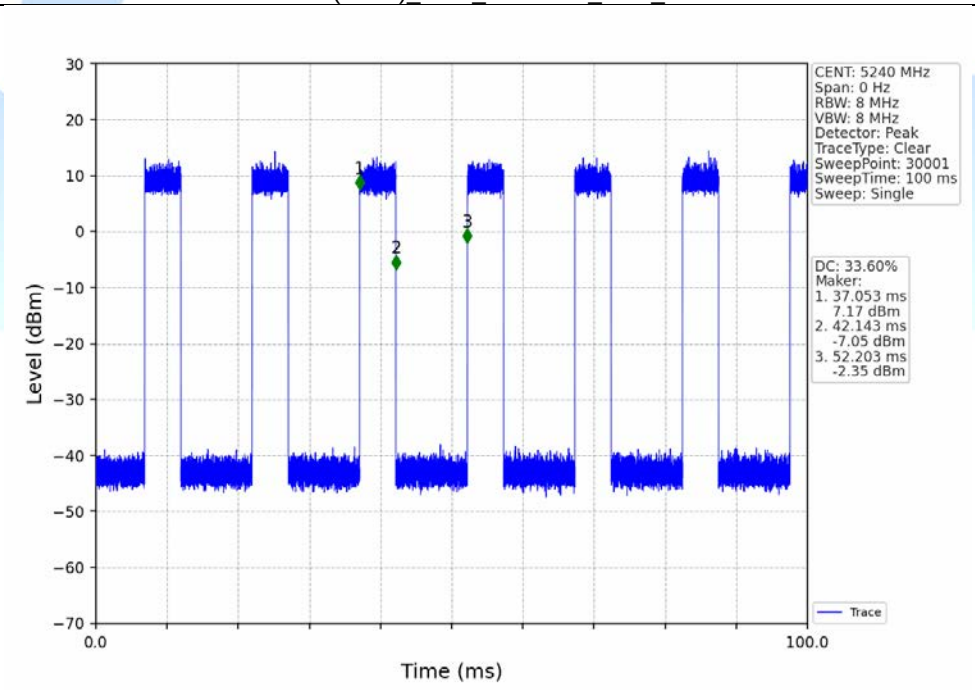
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



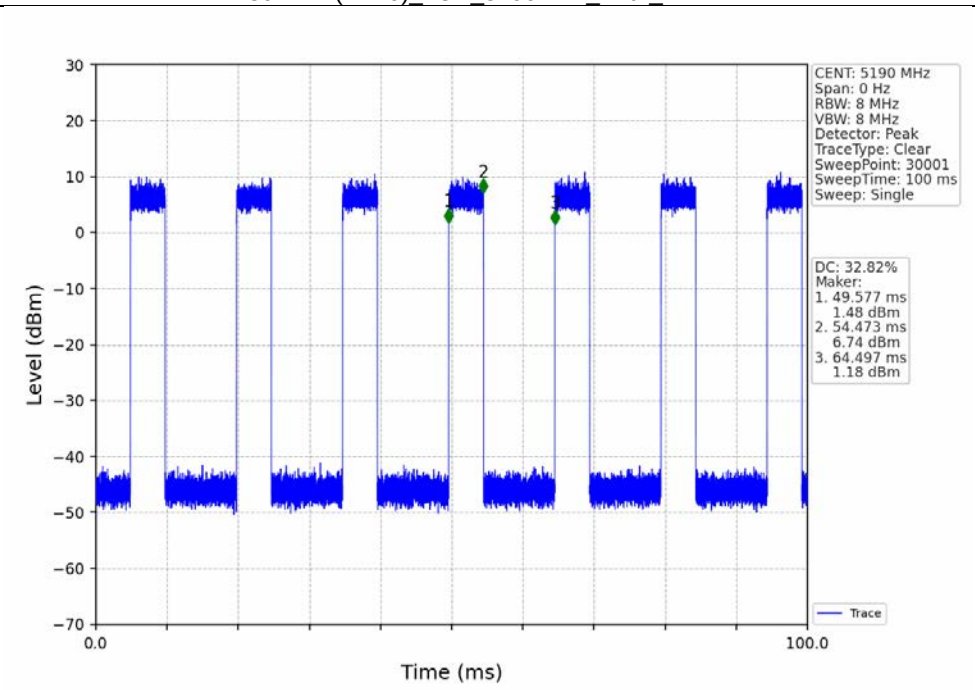
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



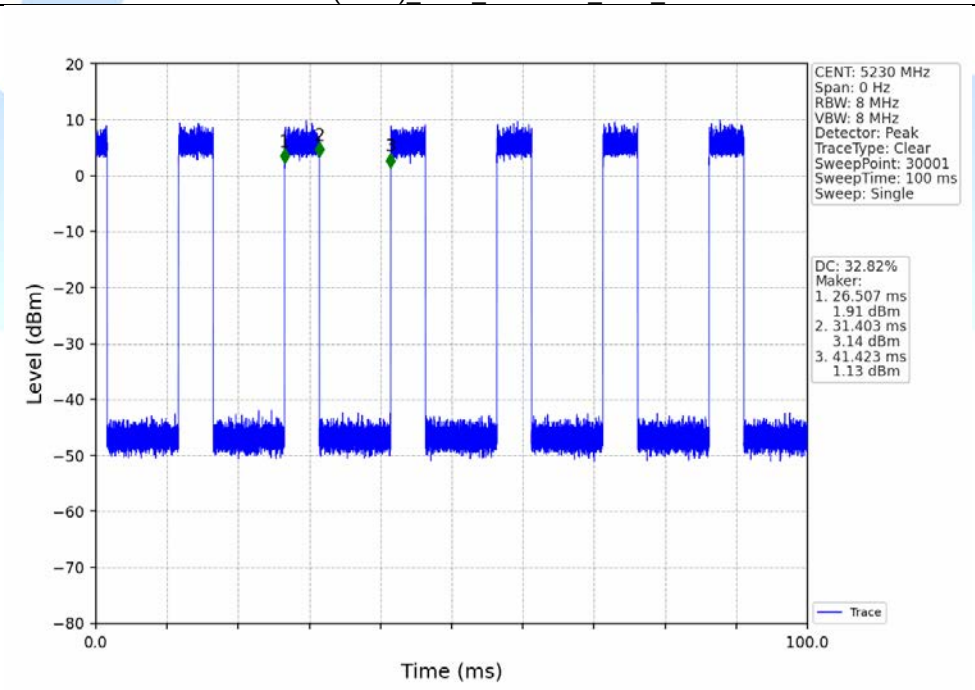
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



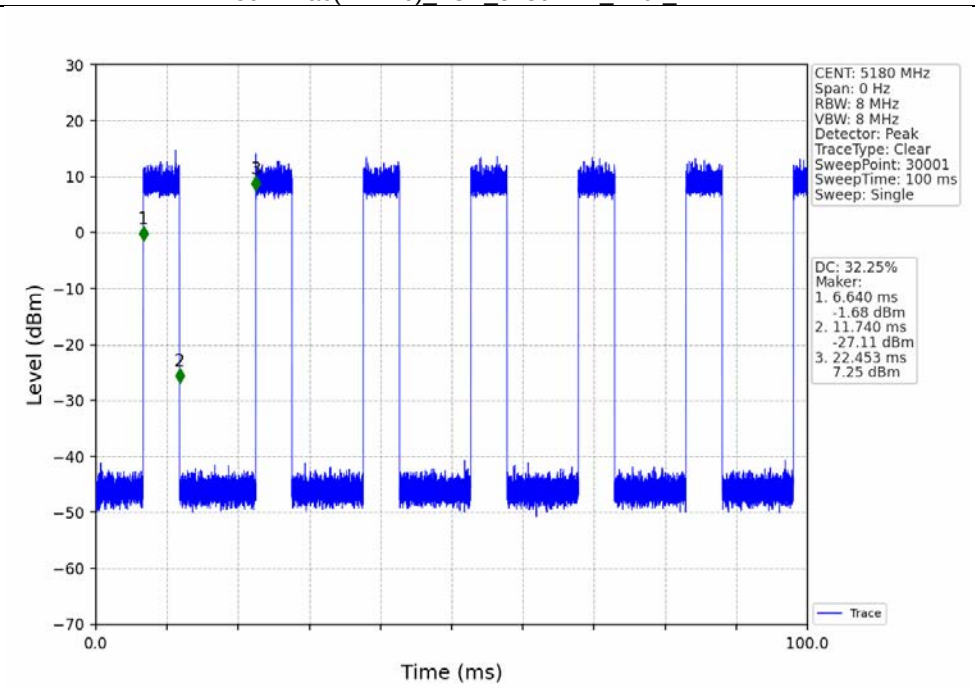
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



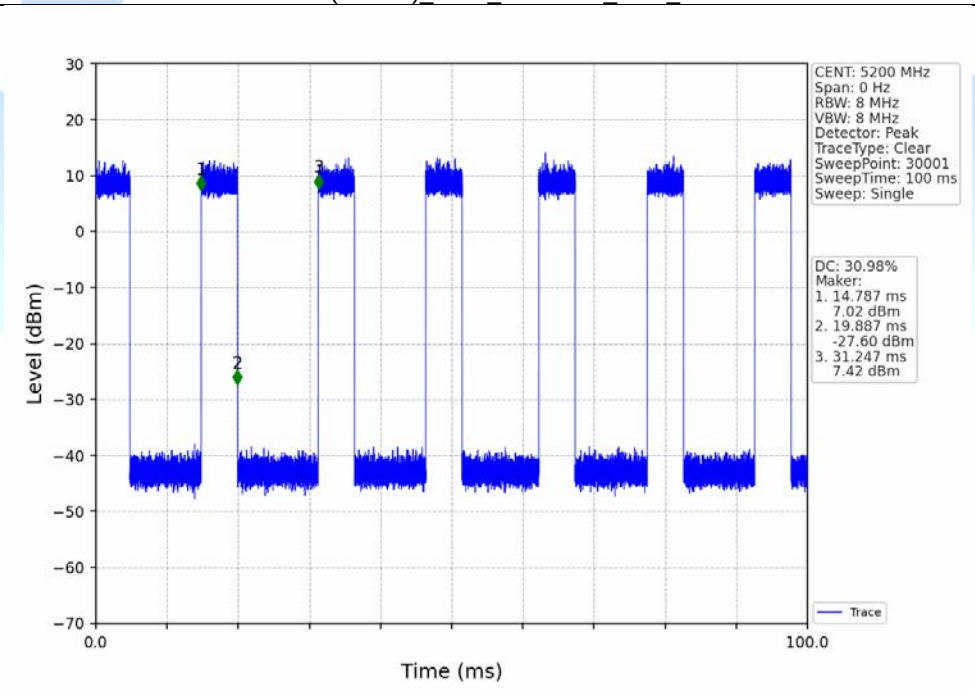
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



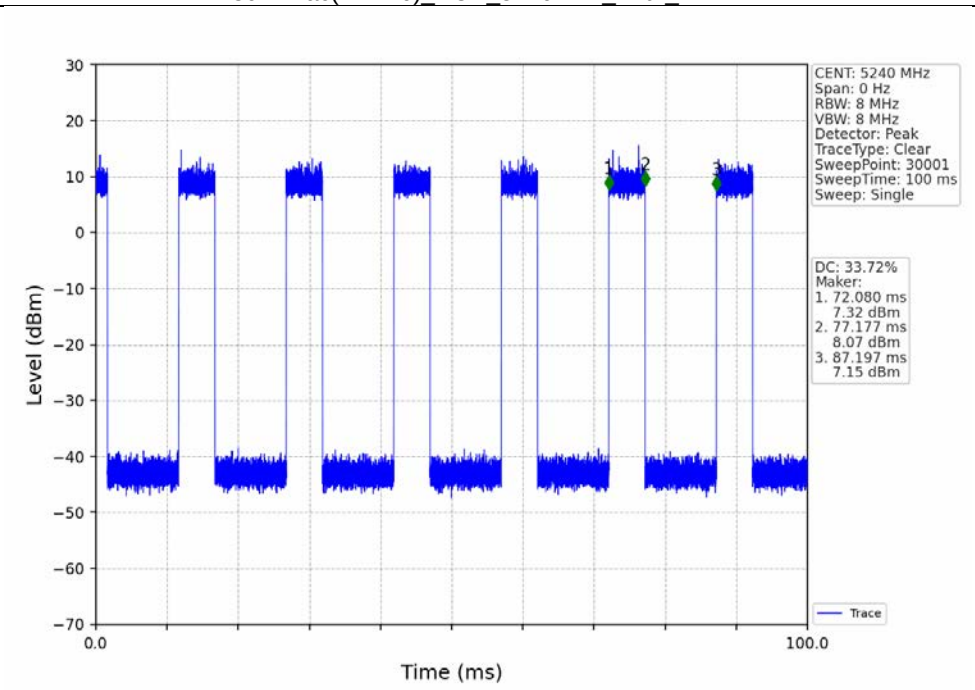
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



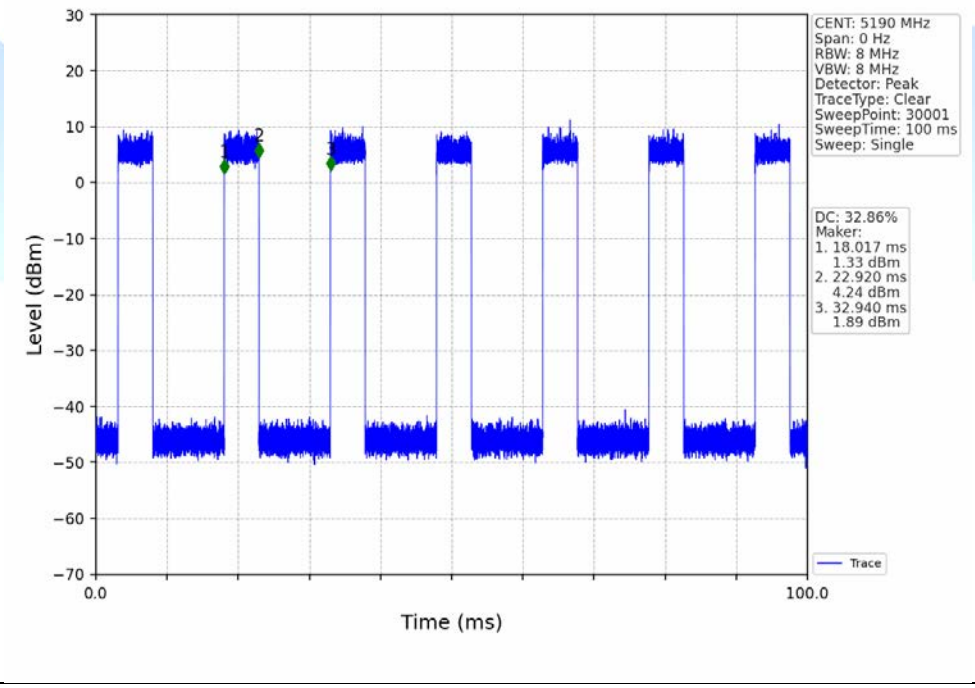
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



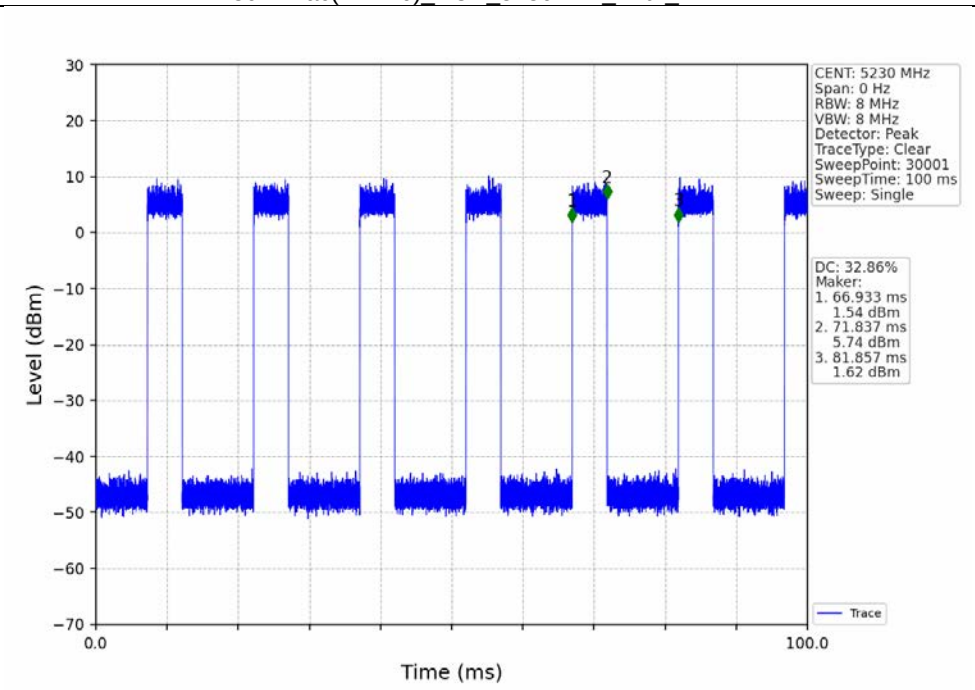
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



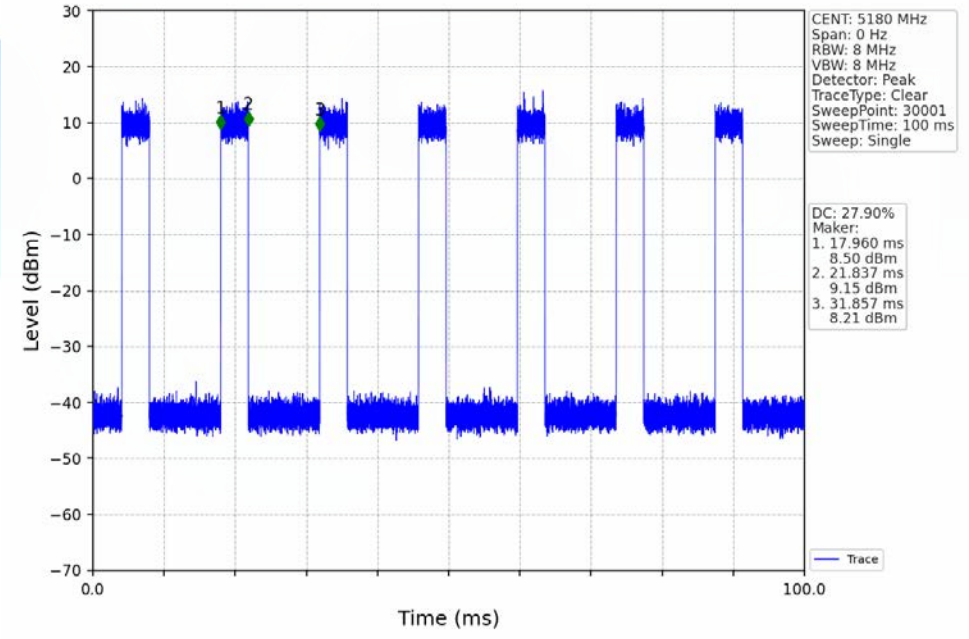
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



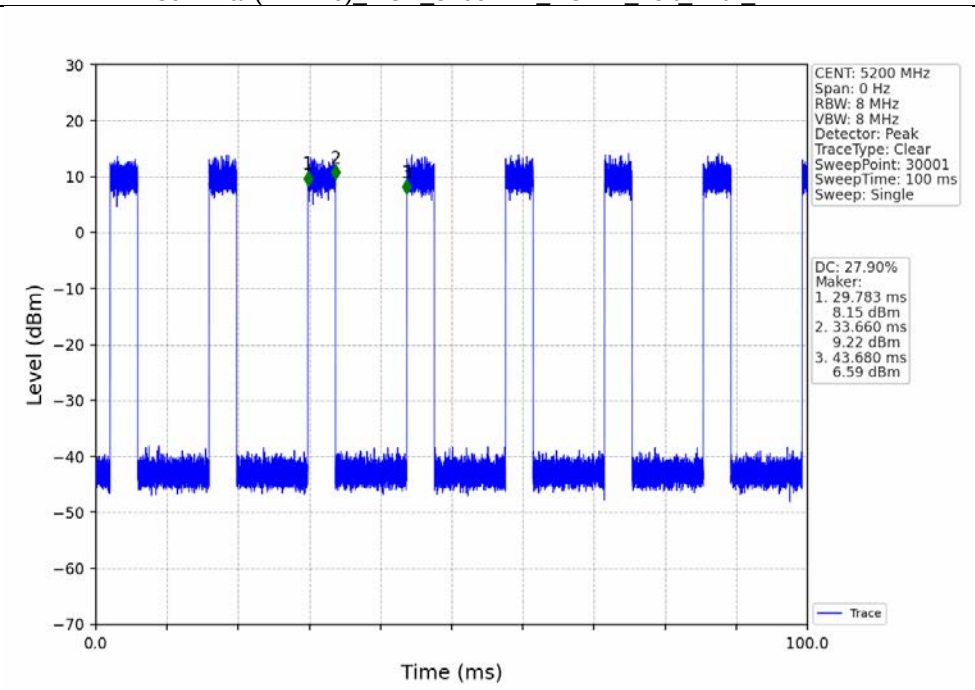
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



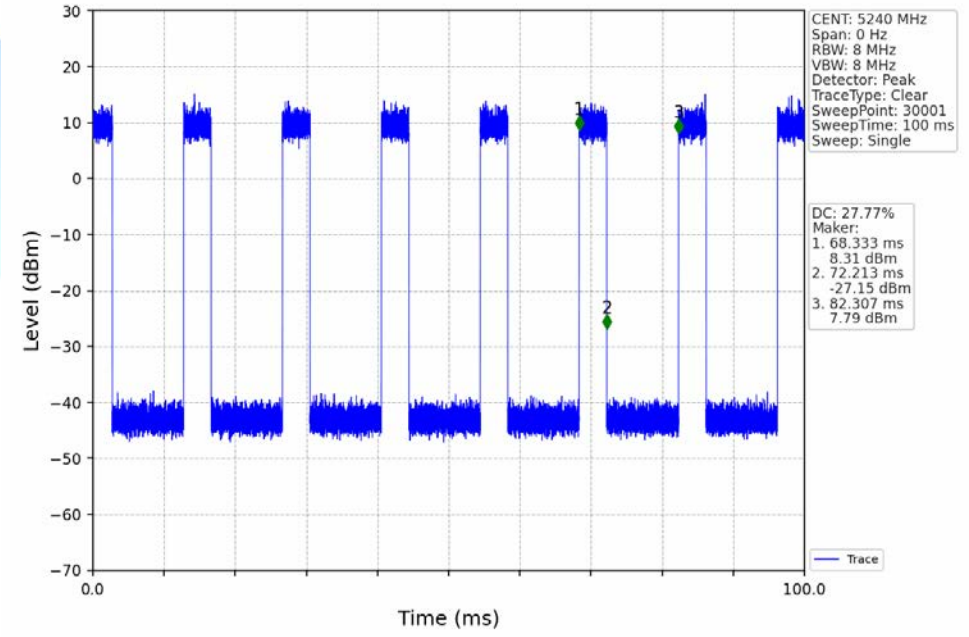
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



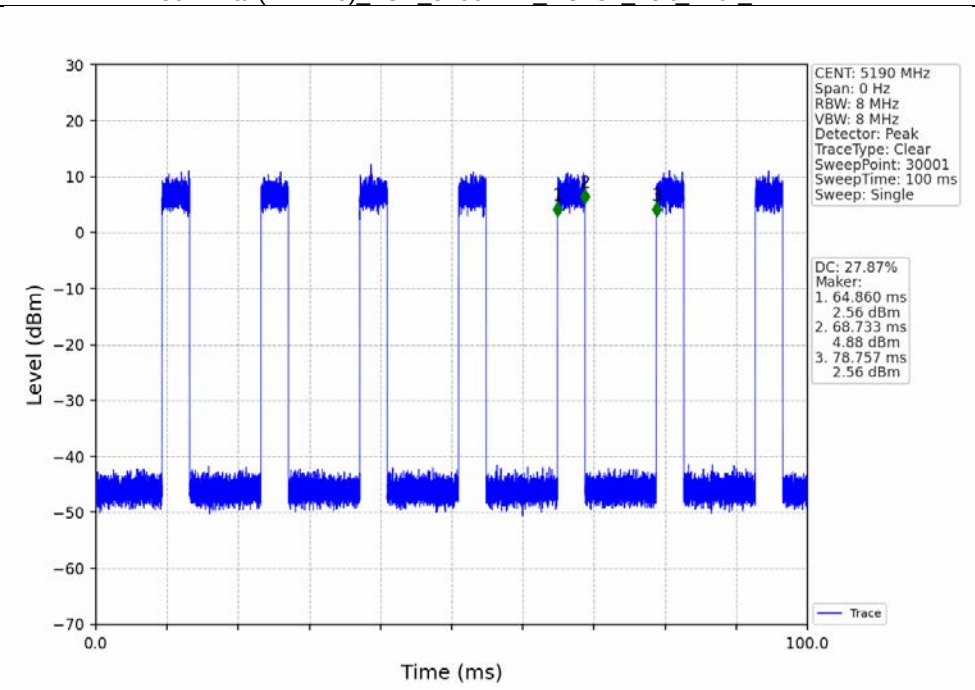
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



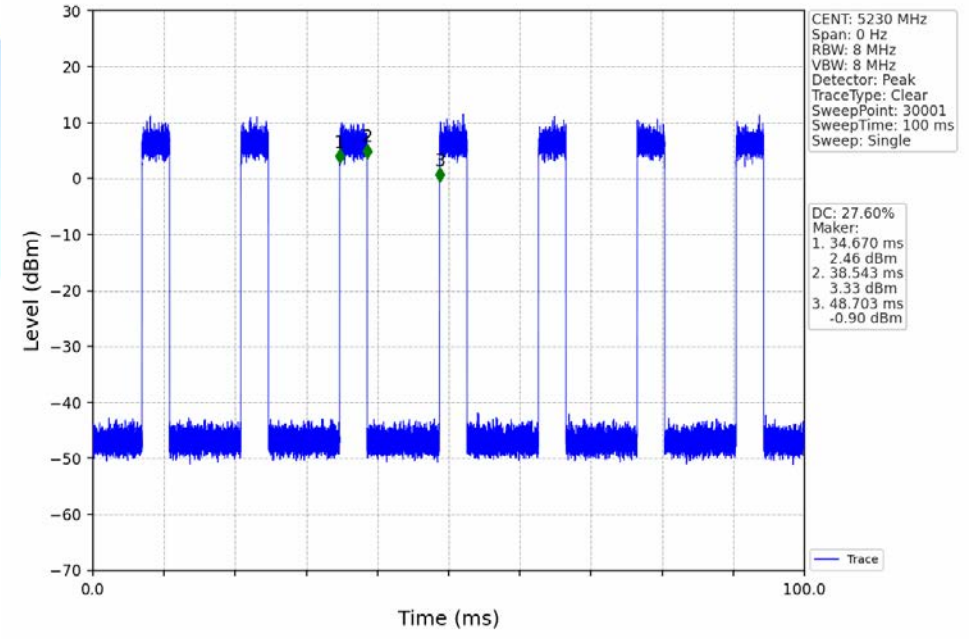
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



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	18.303	/	Pass
		5200	/	/	1	18.234	/	Pass
		5240	/	/	1	18.200	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	19.450	/	Pass
		5200	/	/	1	19.544	/	Pass
		5240	/	/	1	19.481	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	37.497	/	Pass
		5230	/	/	1	37.642	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	19.426	/	Pass
		5200	/	/	1	19.455	/	Pass
		5240	/	/	1	19.137	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	37.612	/	Pass
		5230	/	/	1	37.627	/	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	1	19.776	/	Pass
		5200	RU242	Left	1	19.804	/	Pass
		5240	RU242	Left	1	19.862	/	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	38.628	/	Pass
		5230	RU484	Left	1	38.663	/	Pass

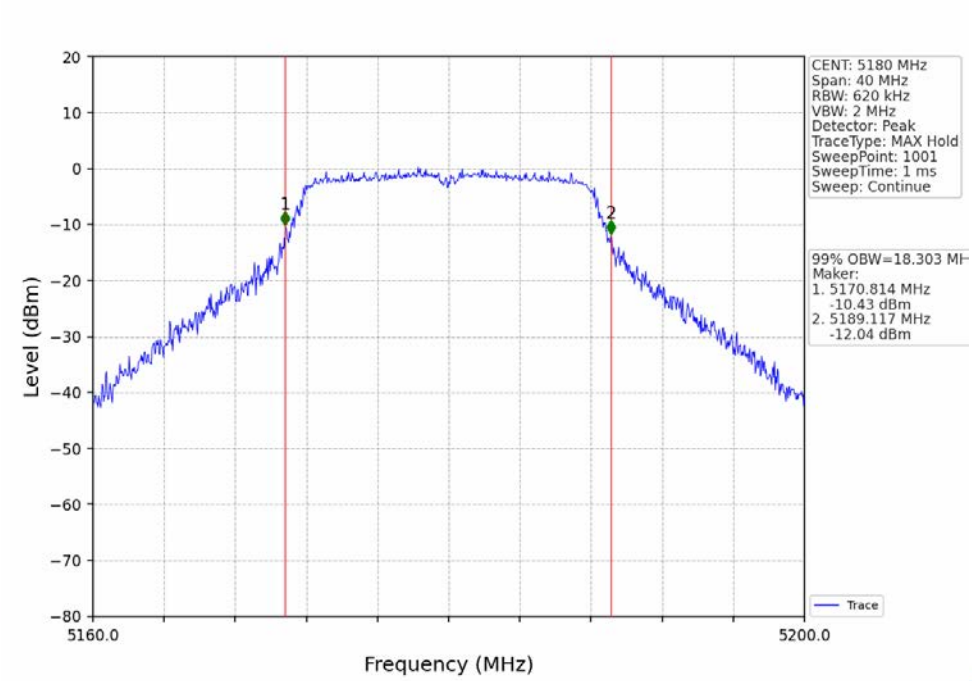
2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	22.270	/	Pass
		5200	/	/	1	22.908	/	Pass
		5240	/	/	1	23.242	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	24.035	/	Pass
		5200	/	/	1	23.849	/	Pass
		5240	/	/	1	25.371	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	45.322	/	Pass
		5230	/	/	1	44.856	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	24.929	/	Pass
		5200	/	/	1	24.609	/	Pass
		5240	/	/	1	24.246	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	45.063	/	Pass
		5230	/	/	1	46.103	/	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	1	24.524	/	Pass
		5200	RU242	Left	1	24.863	/	Pass
		5240	RU242	Left	1	23.940	/	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	1	44.000	/	Pass
		5230	RU484	Left	1	44.463	/	Pass

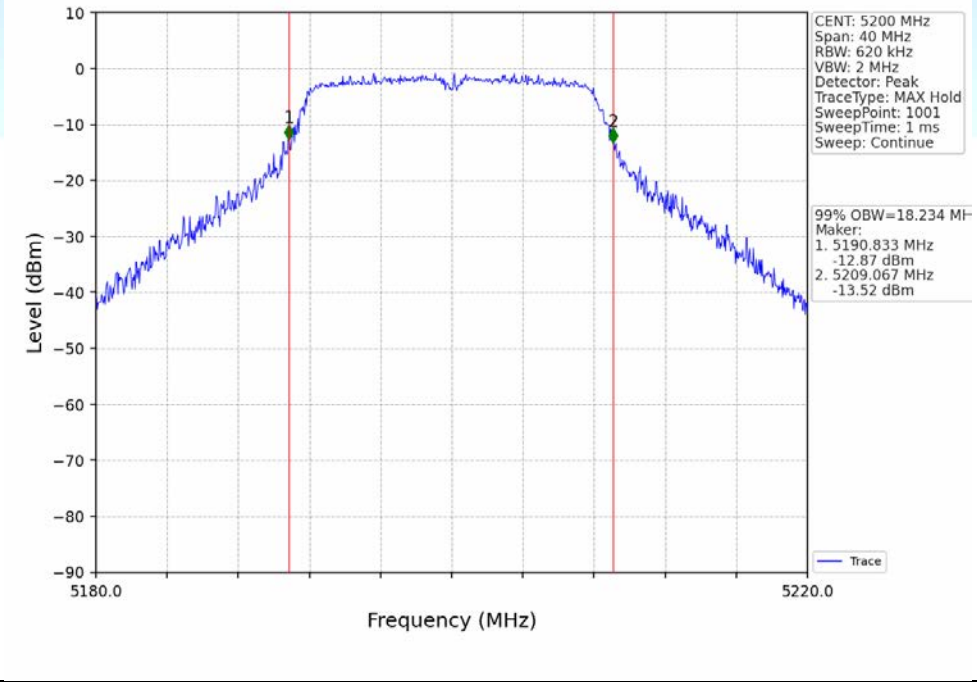
2.2 Test Graph

2.2.1 OBW

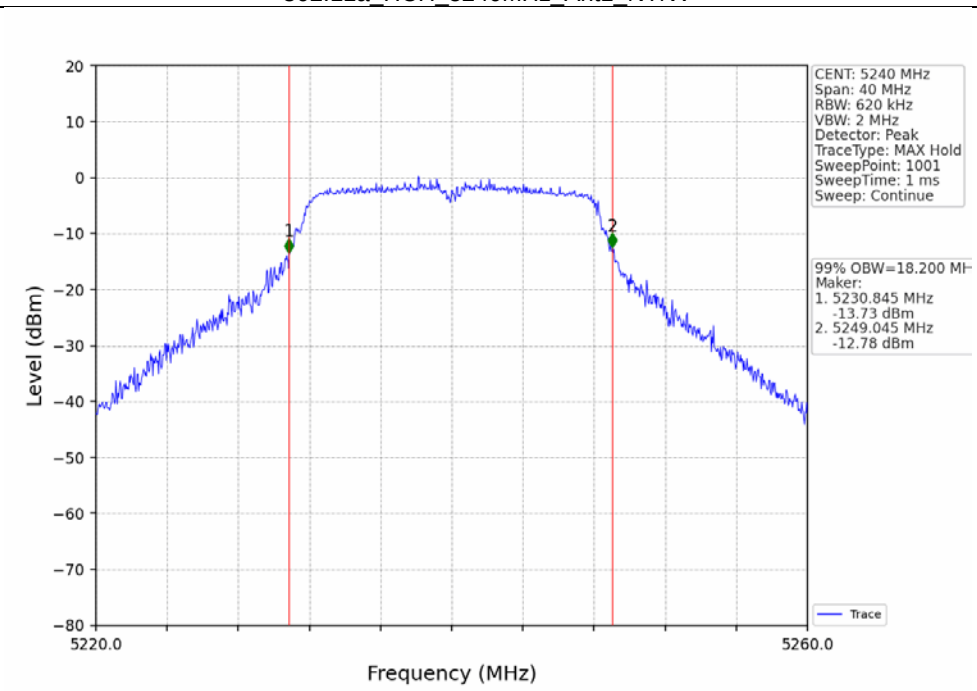
802.11a_LCH_5180MHz_Ant1_NTNV



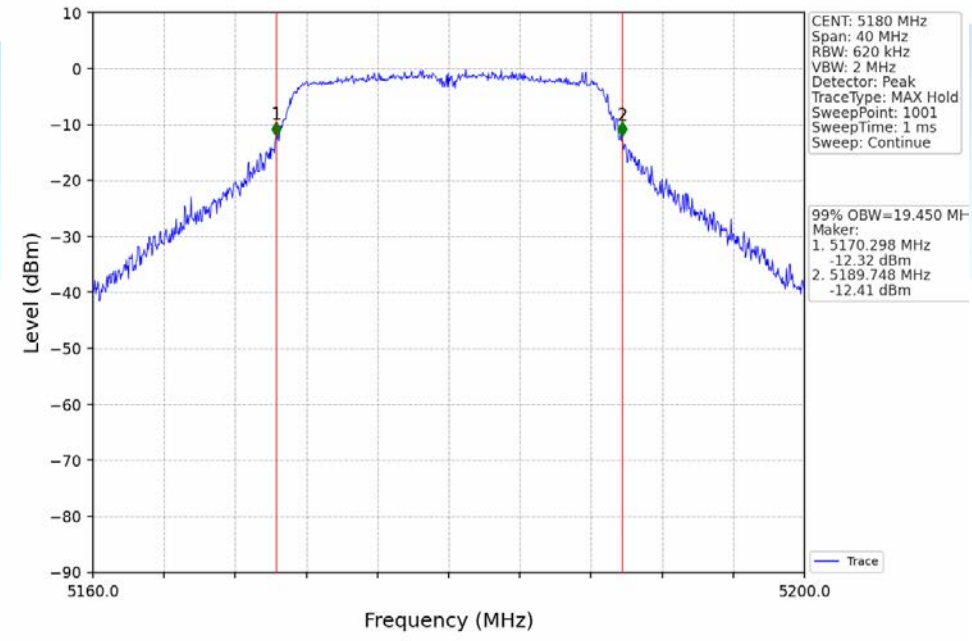
802.11a_MCH_5200MHz_Ant1_NTNV



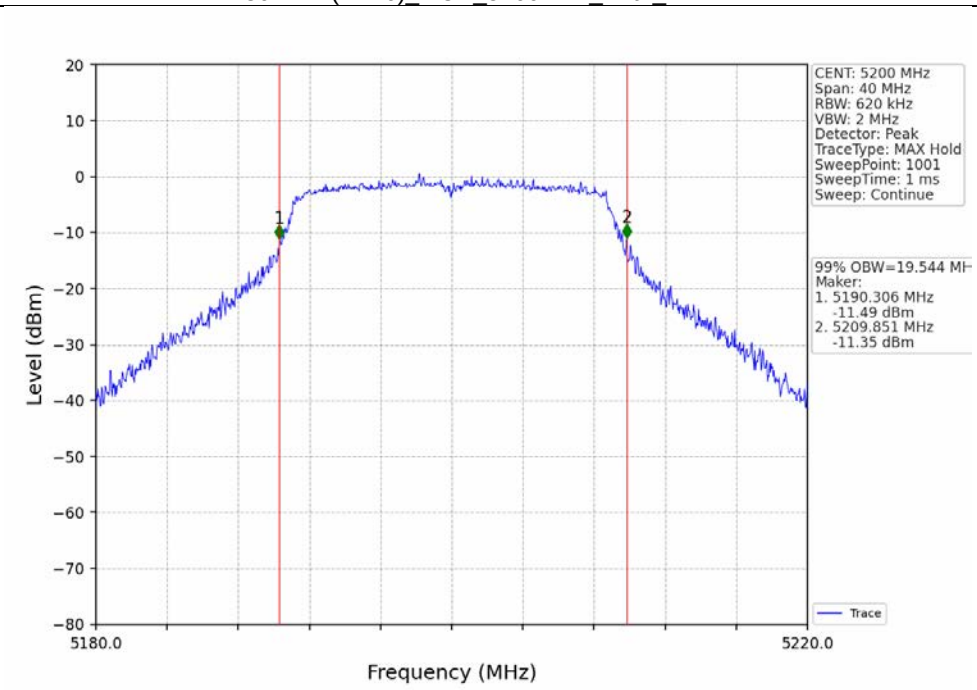
802.11a_HCH_5240MHz_Ant1_NTNV



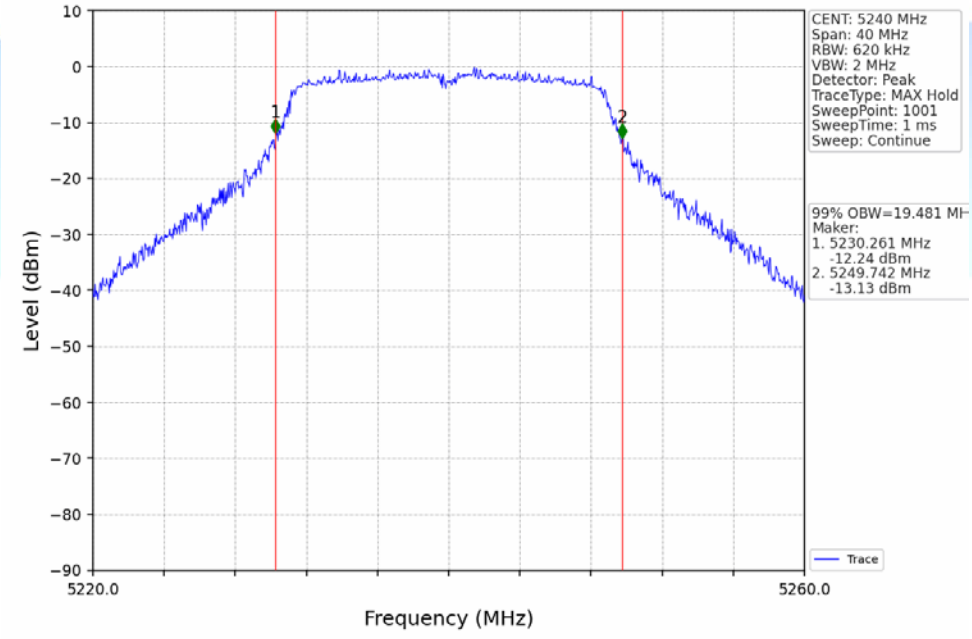
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



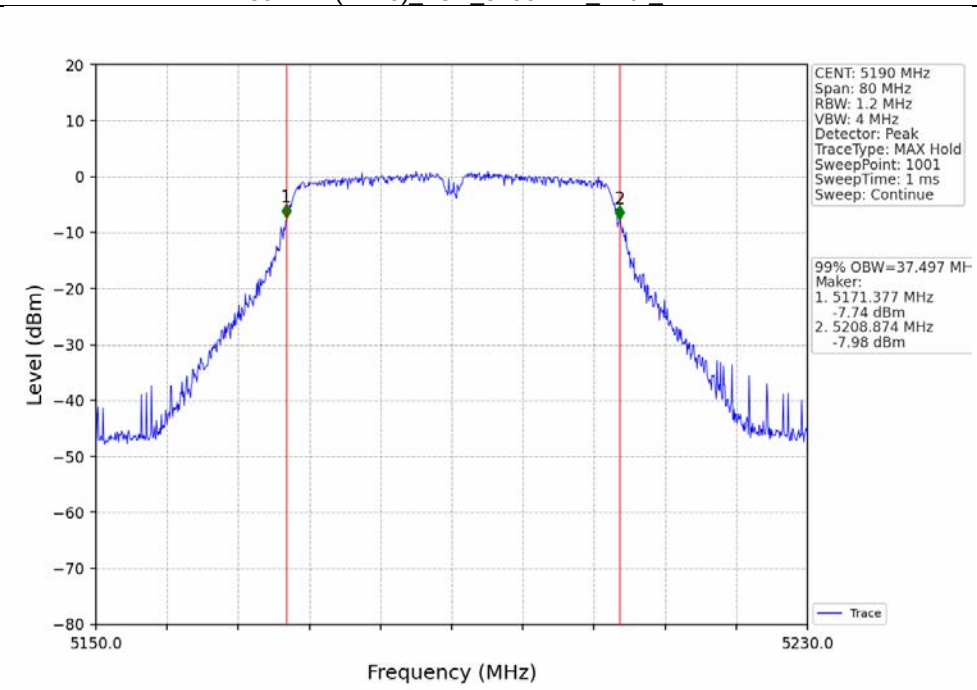
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



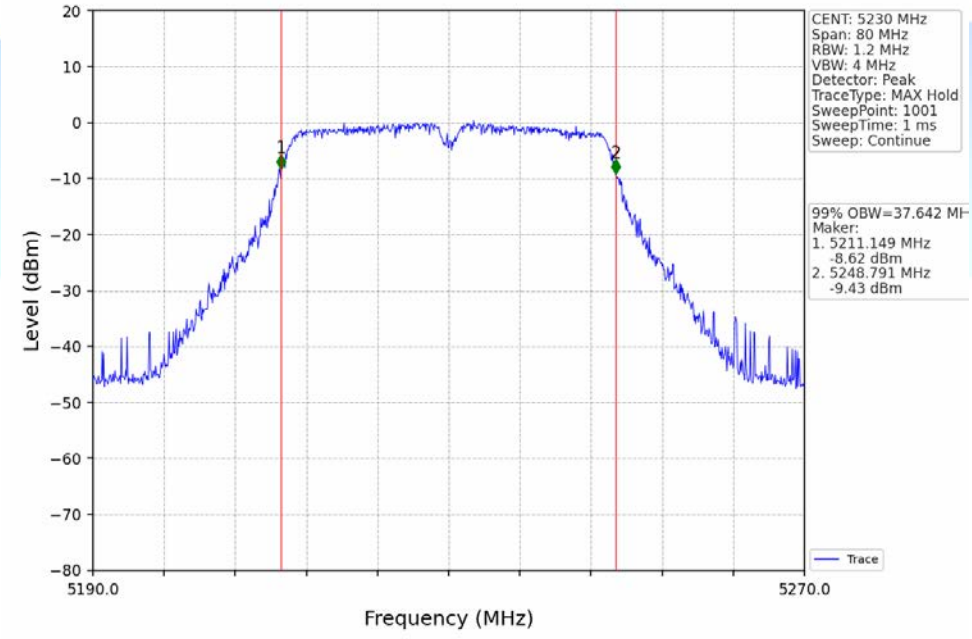
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



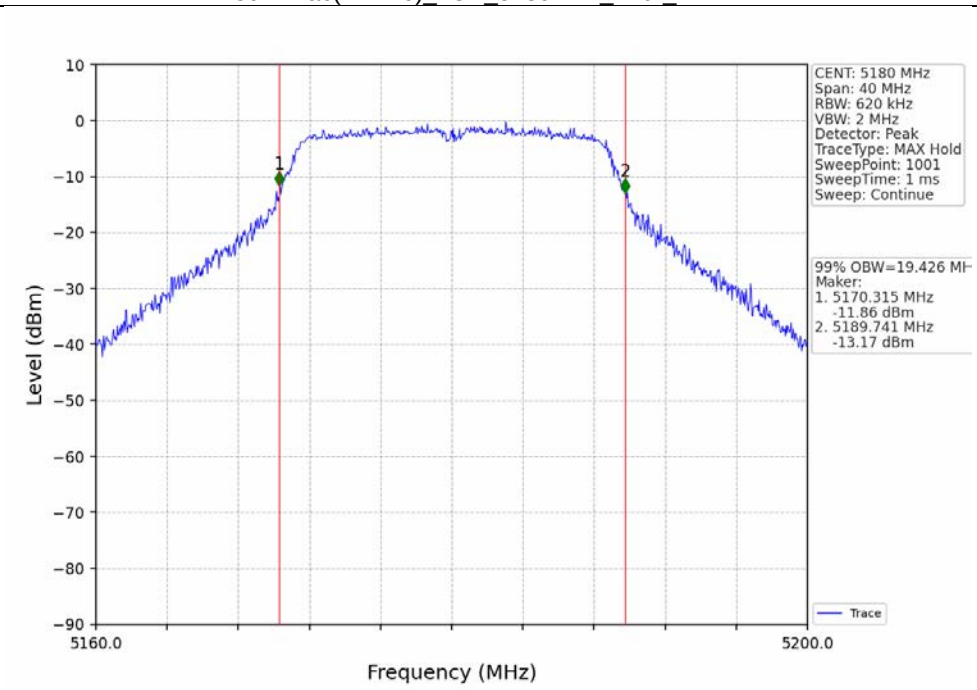
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



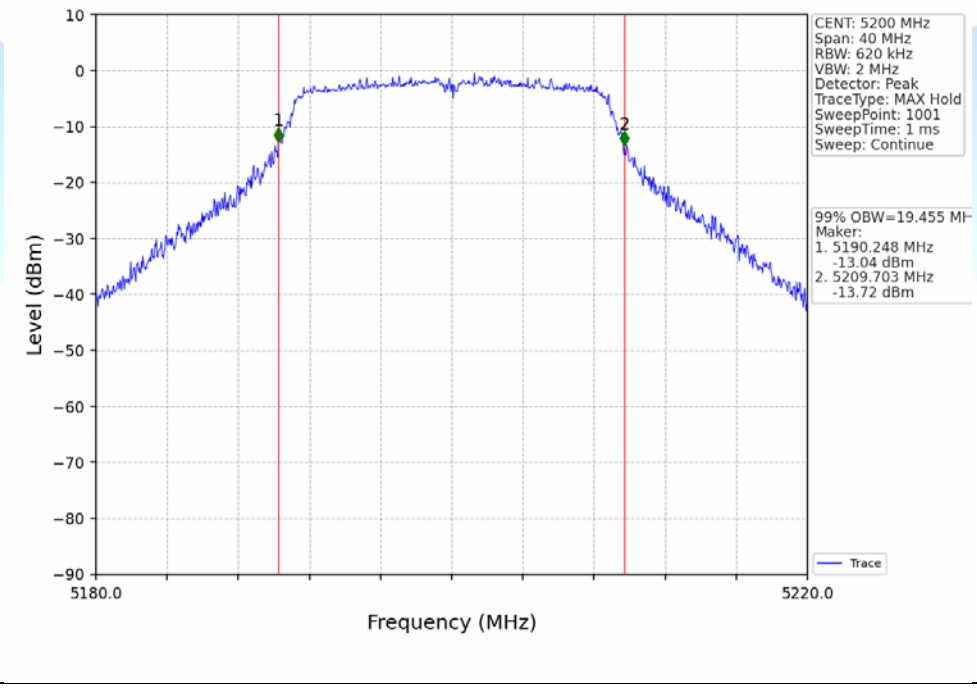
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



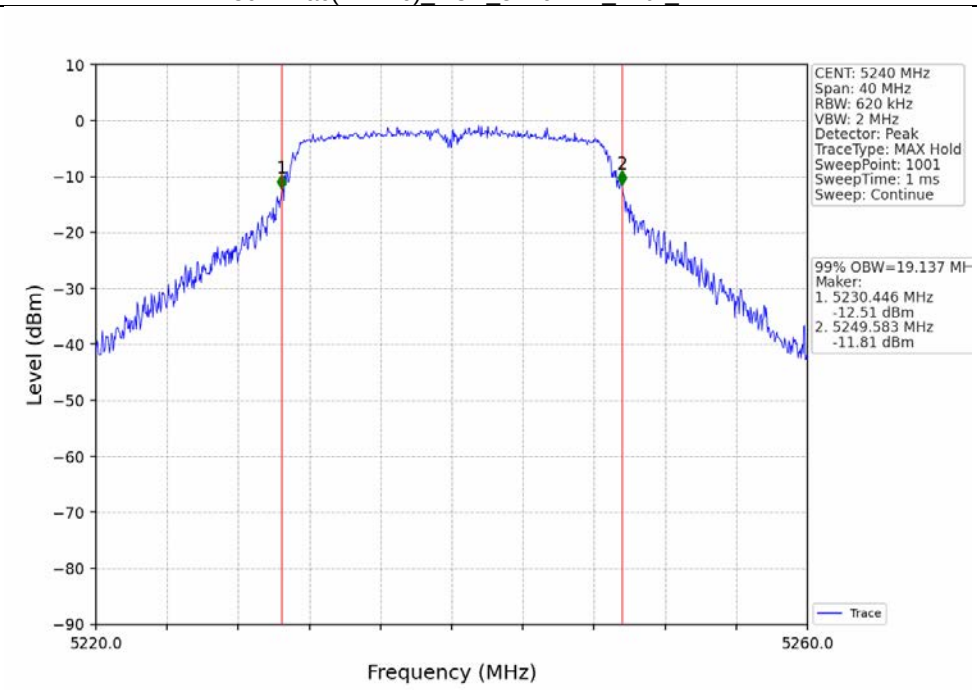
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



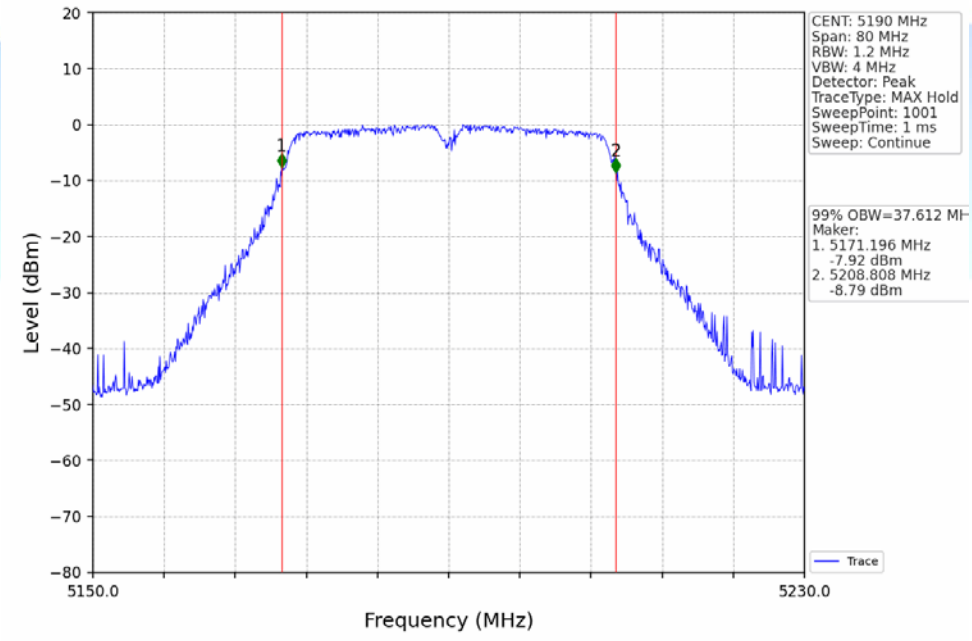
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



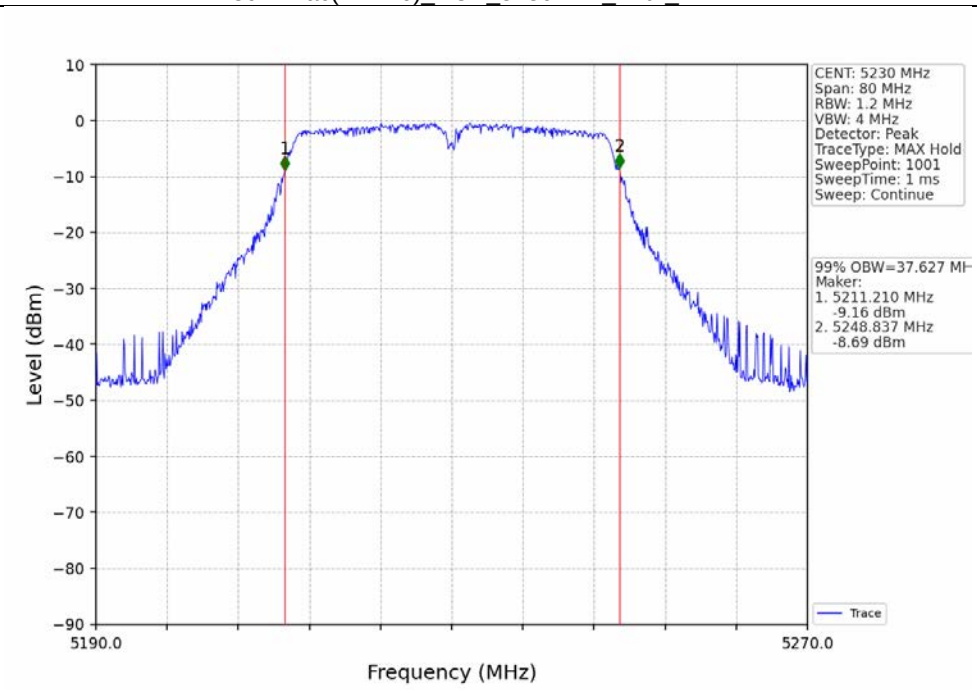
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



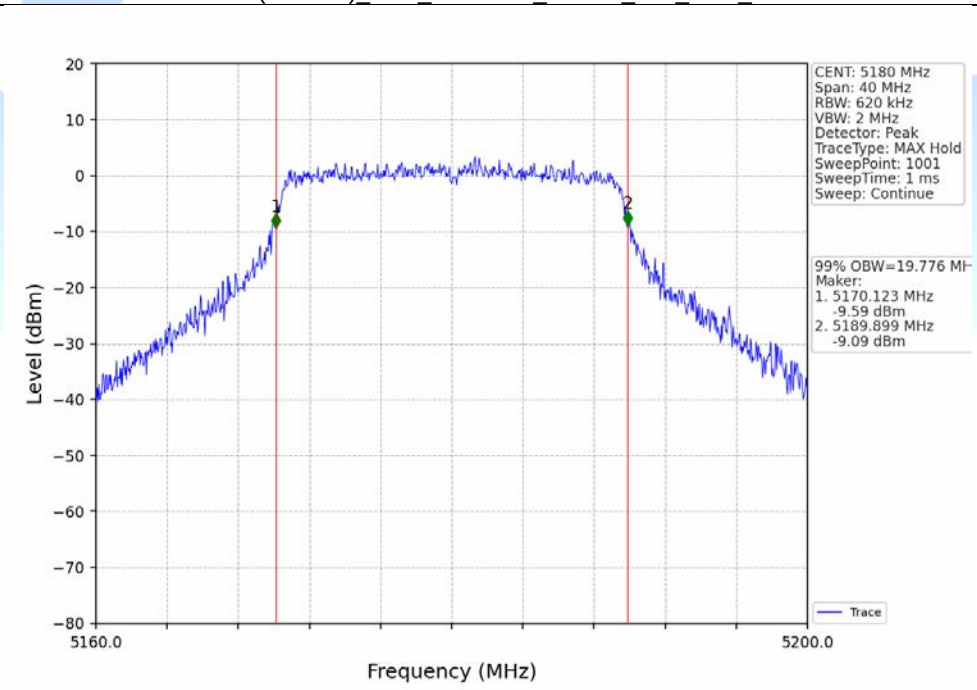
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



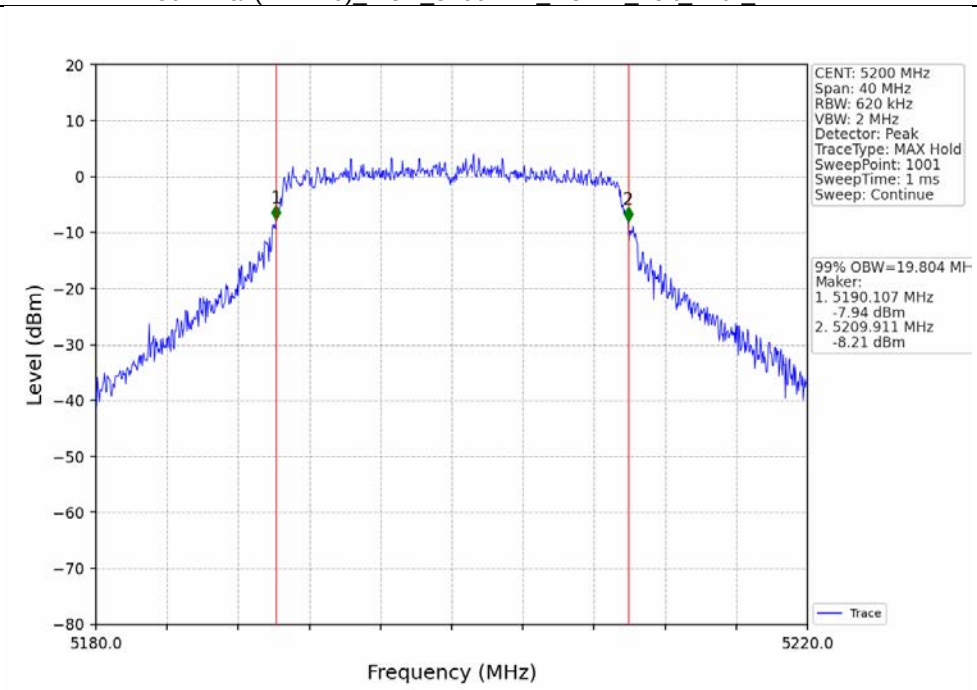
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



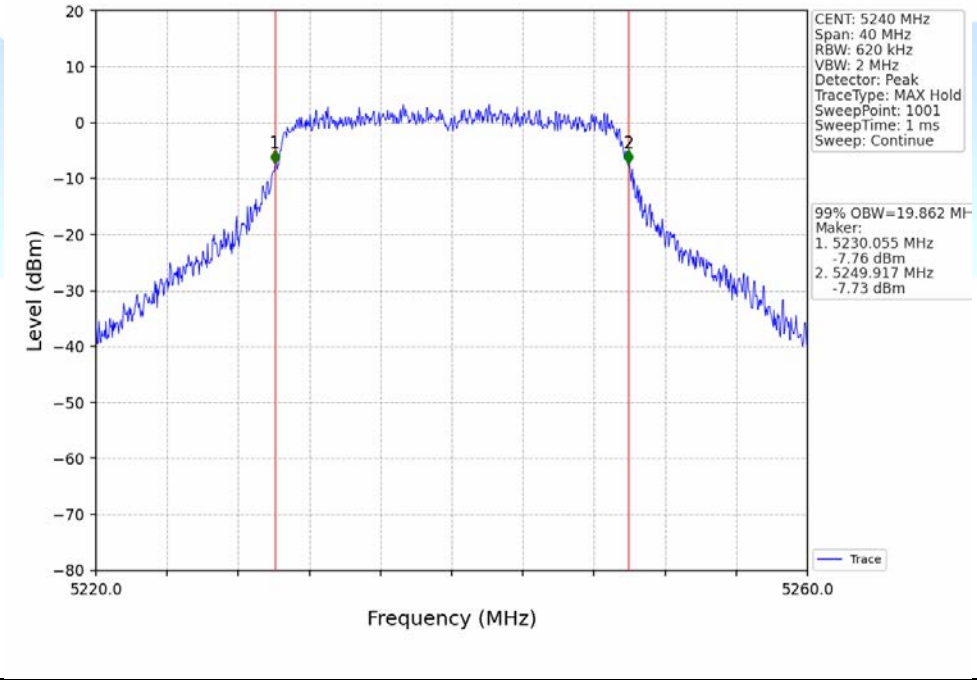
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



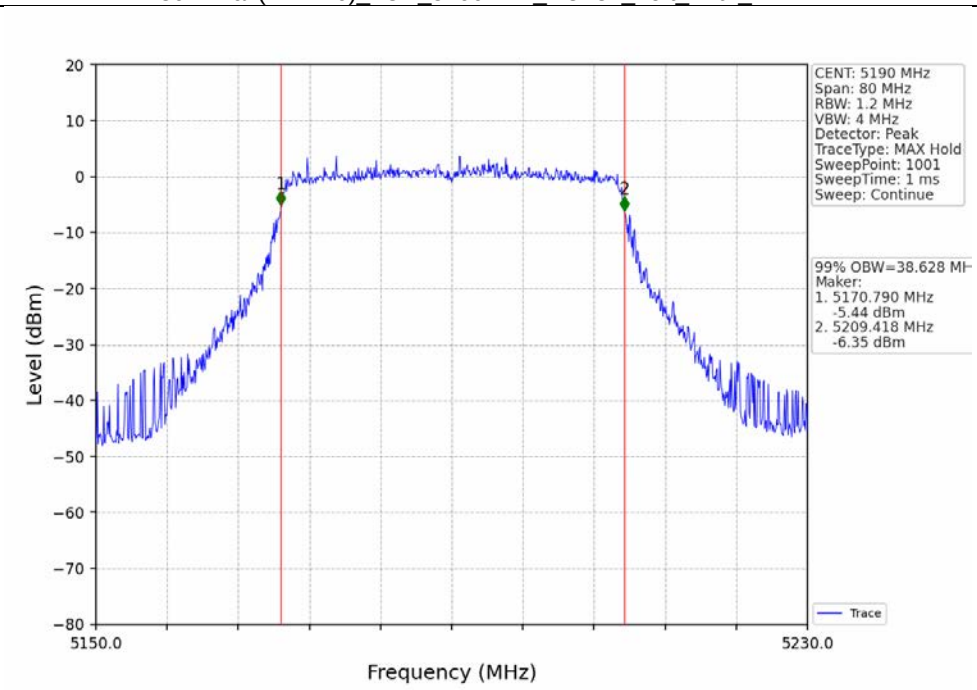
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



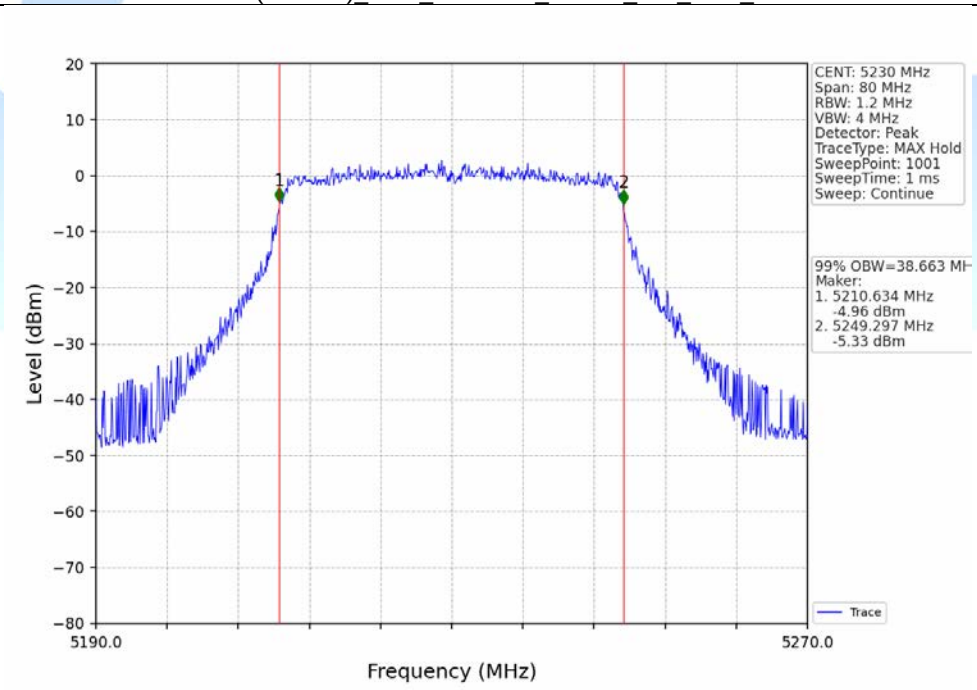
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV

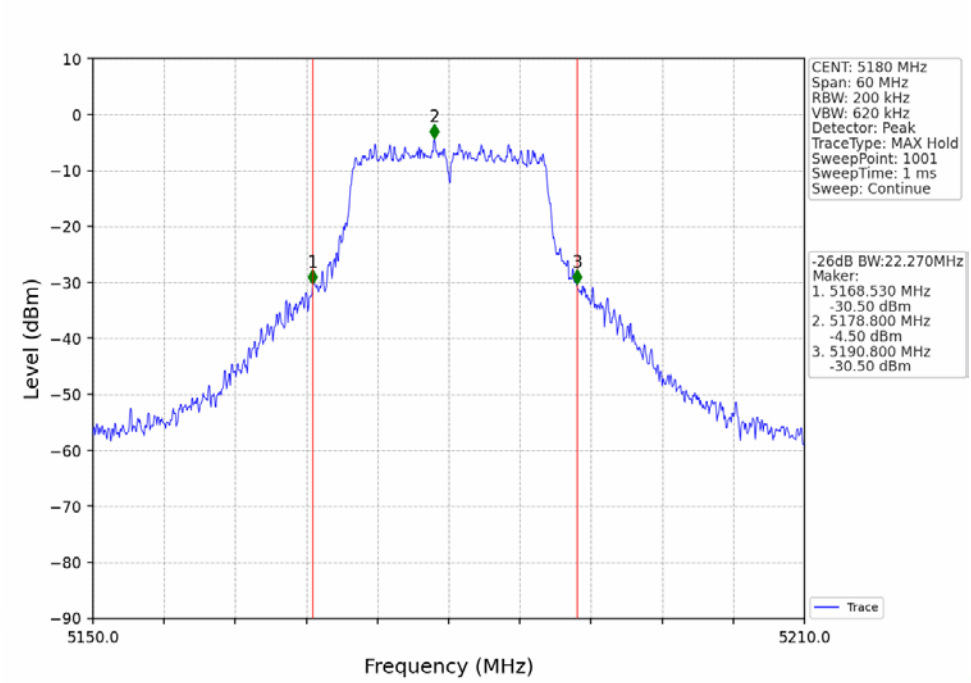


802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV

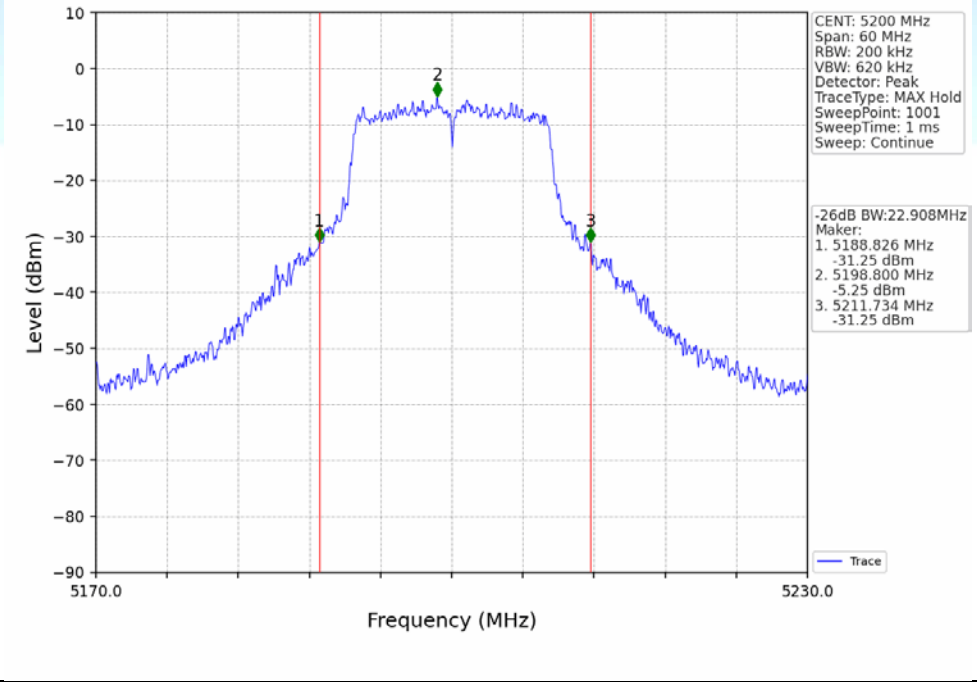


2.2.2 26dB BW

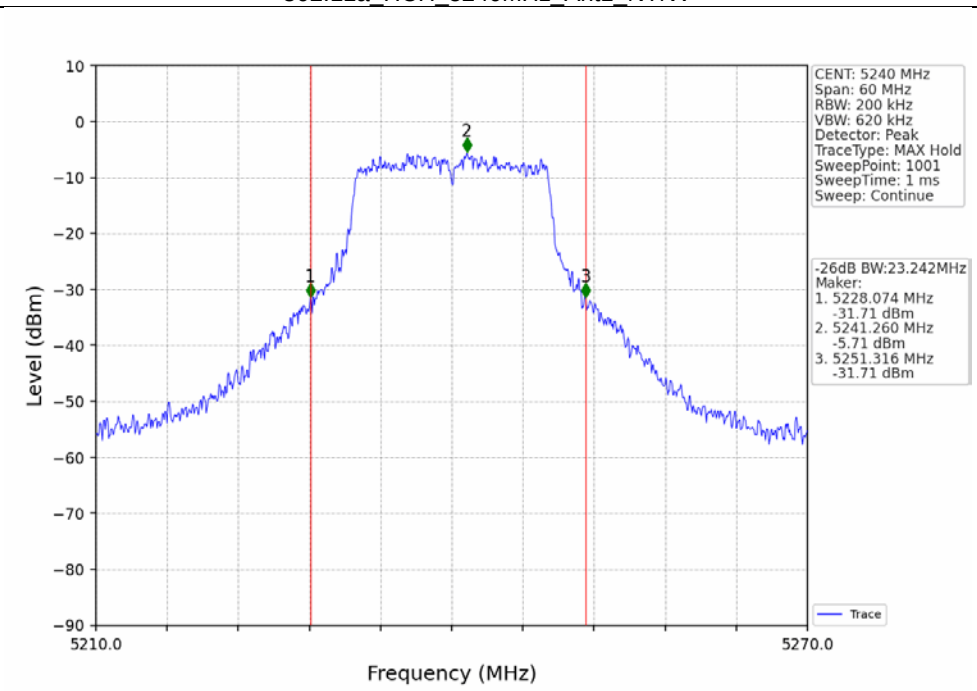
802.11a_LCH_5180MHz_Ant1_NTNV



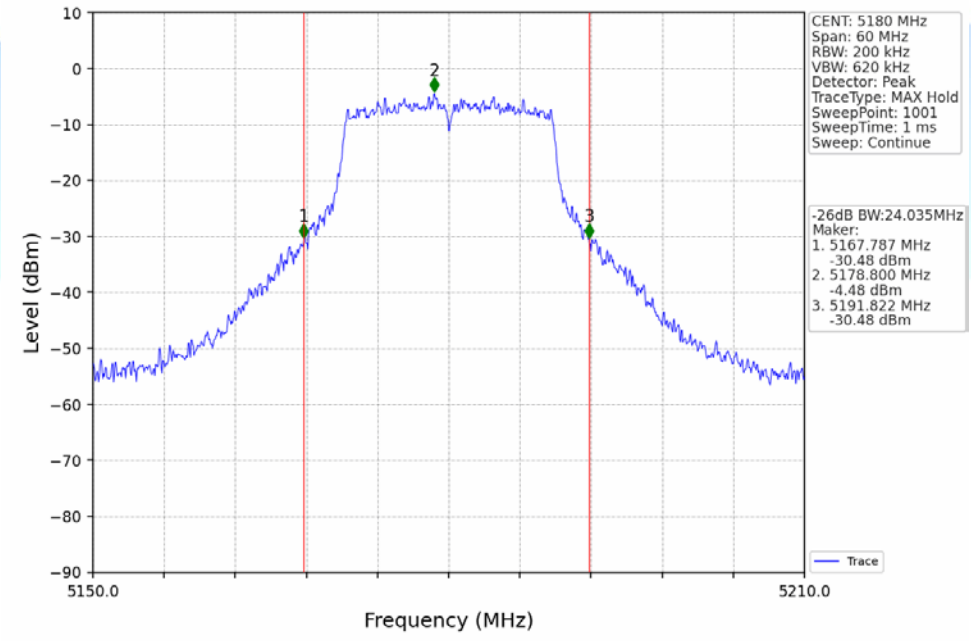
802.11a_MCH_5200MHz_Ant1_NTNV



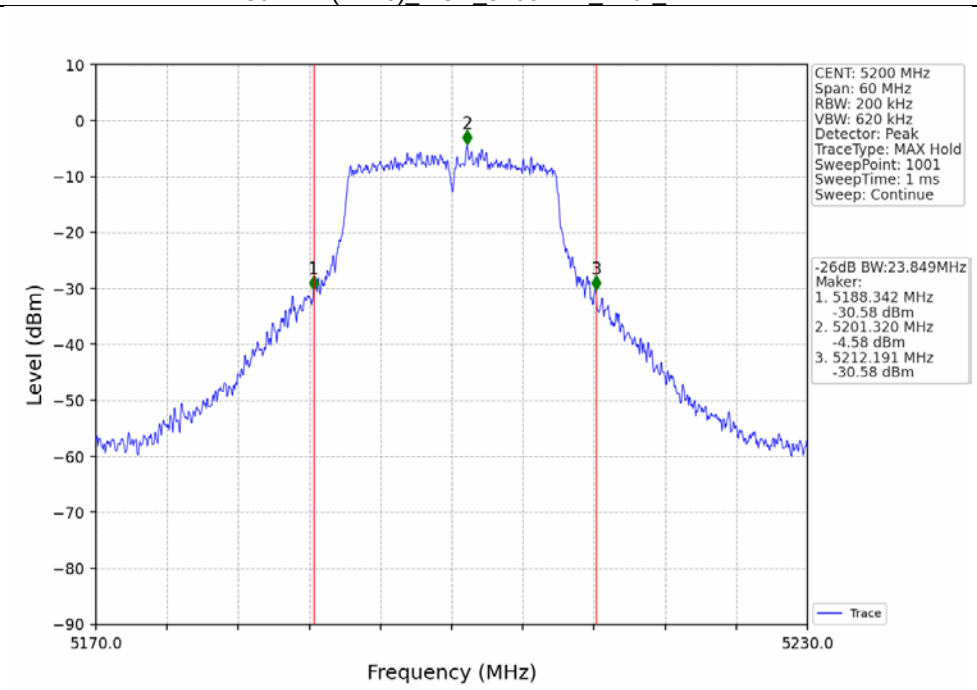
802.11a_HCH_5240MHz_Ant1_NTNV



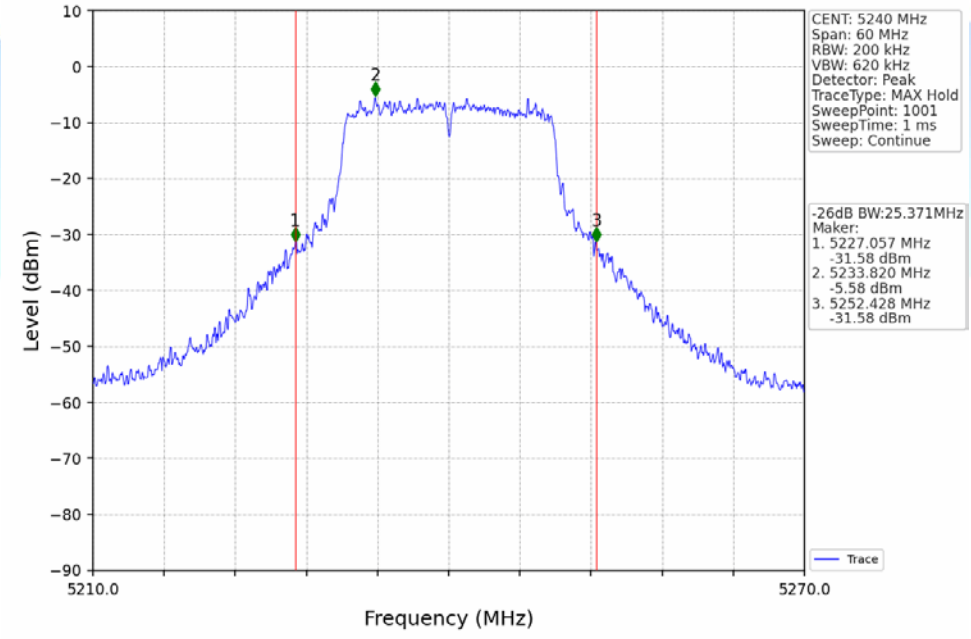
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



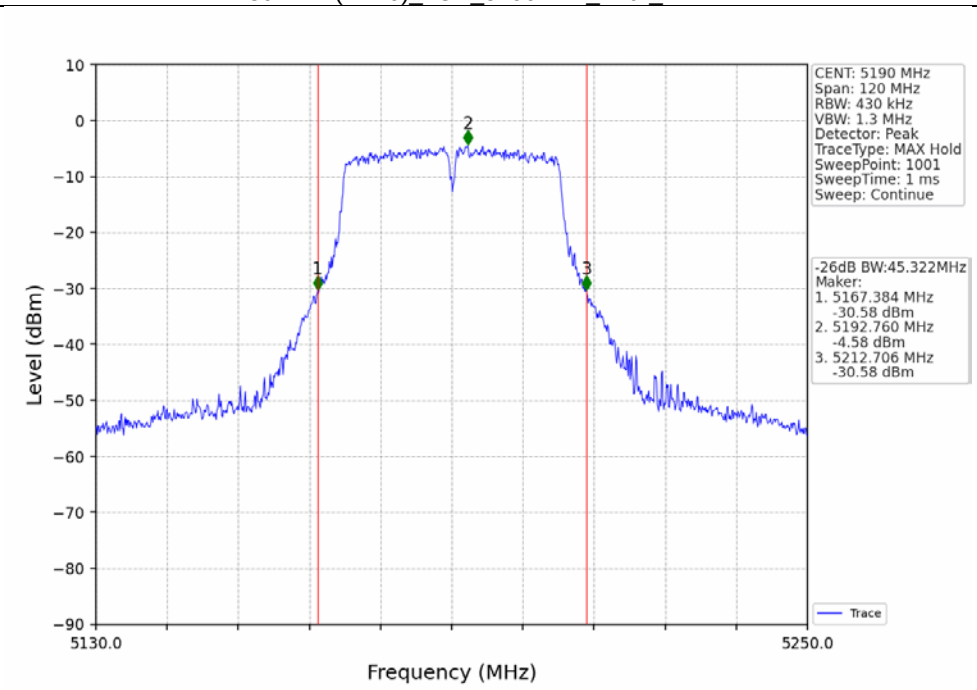
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



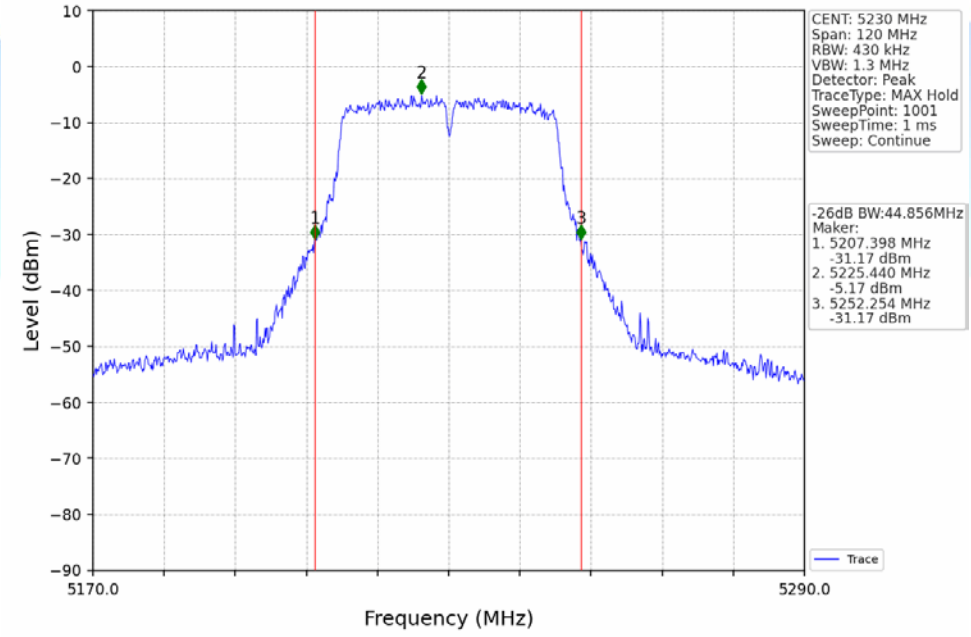
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



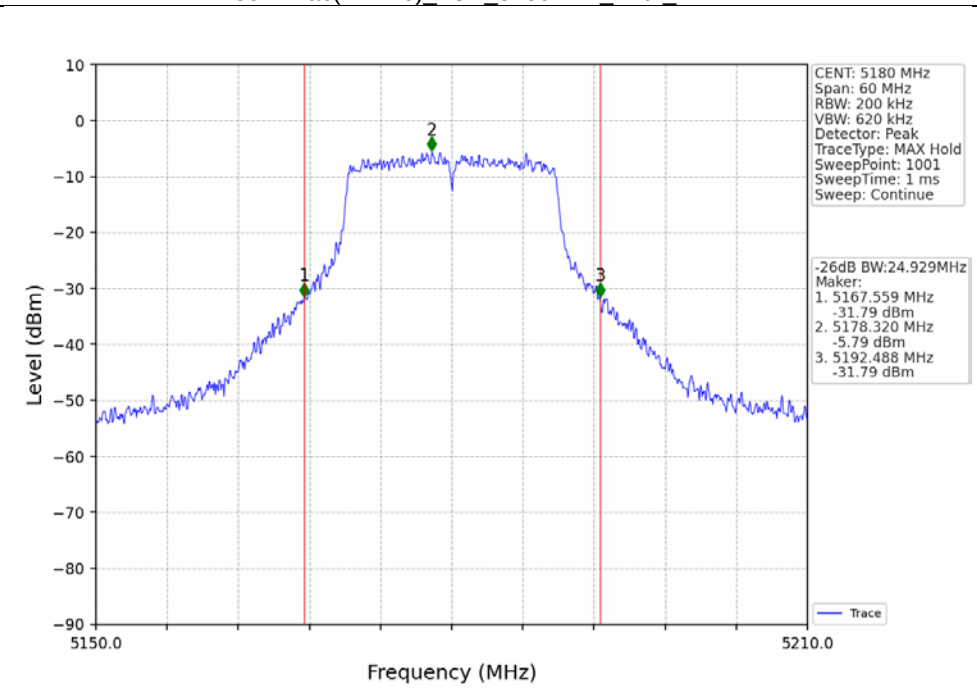
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



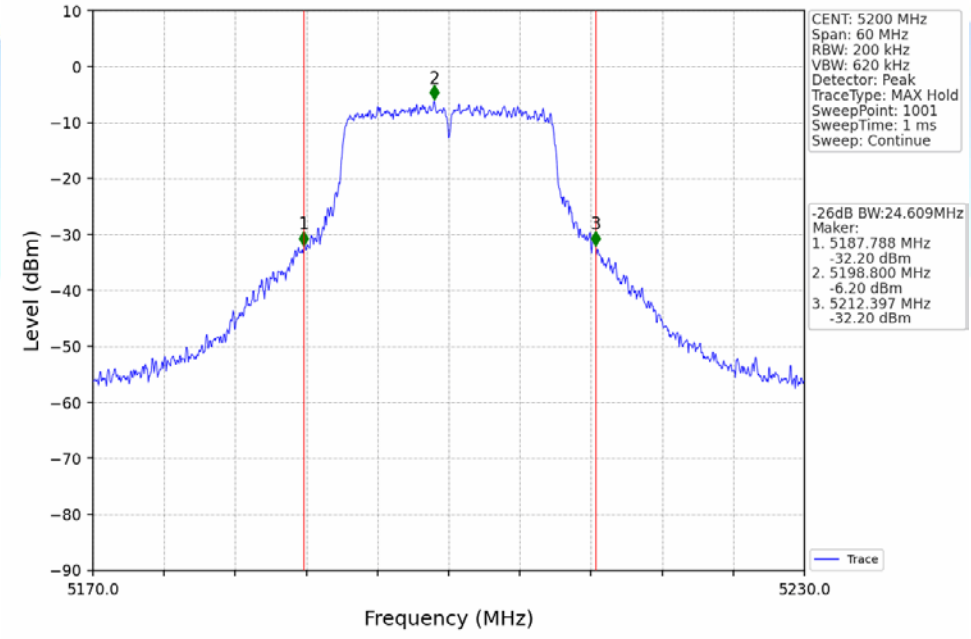
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



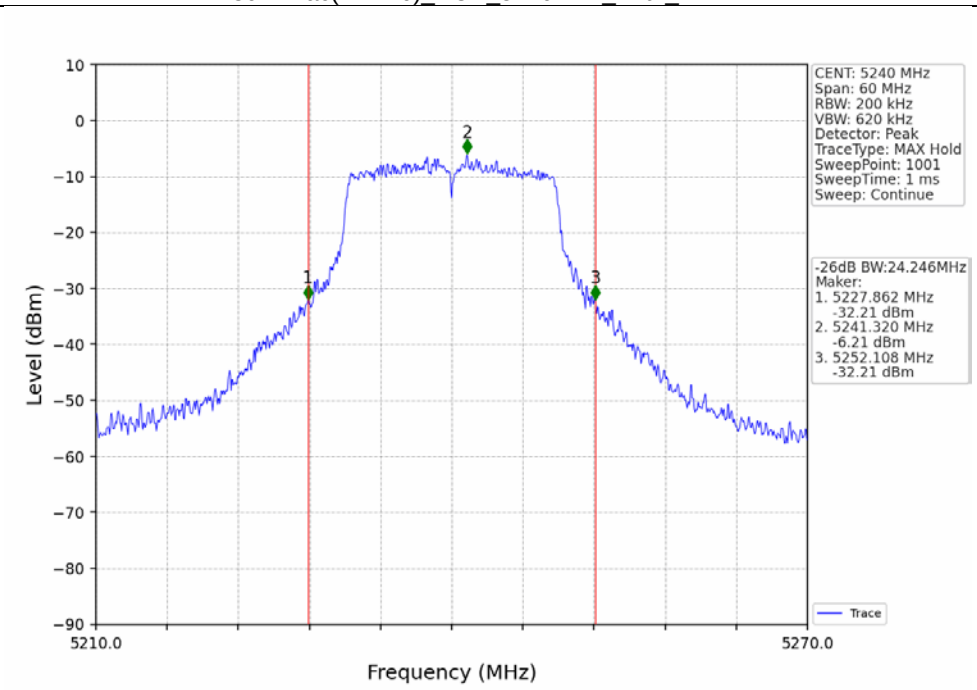
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



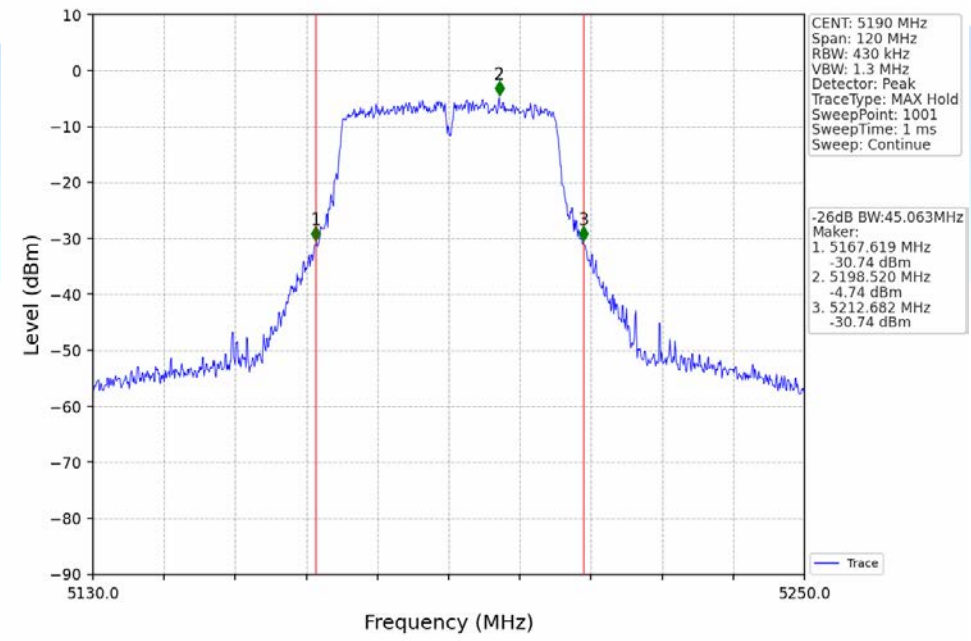
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



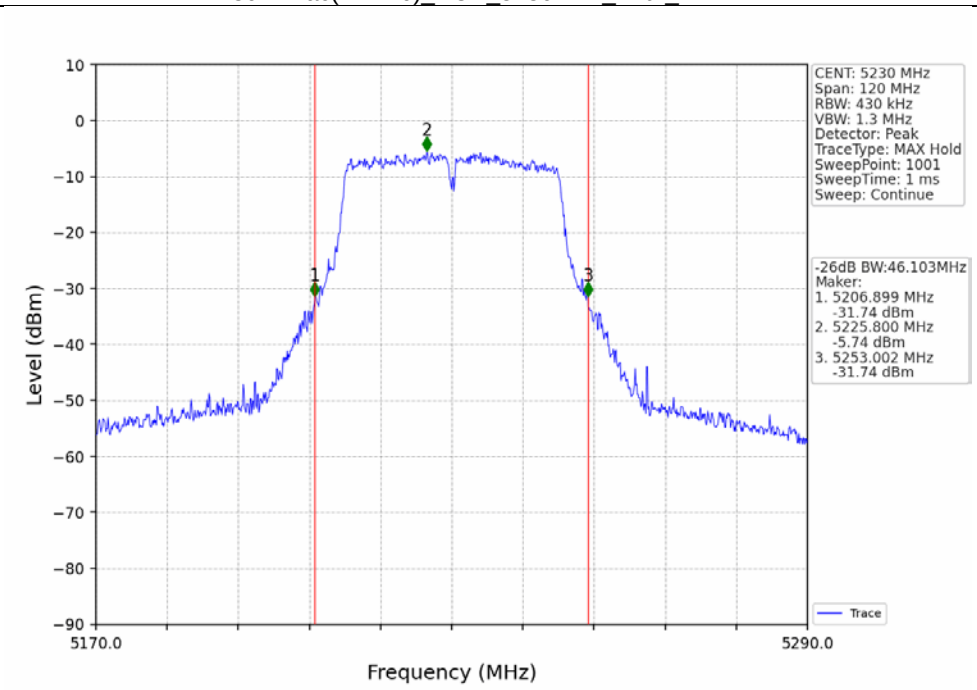
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



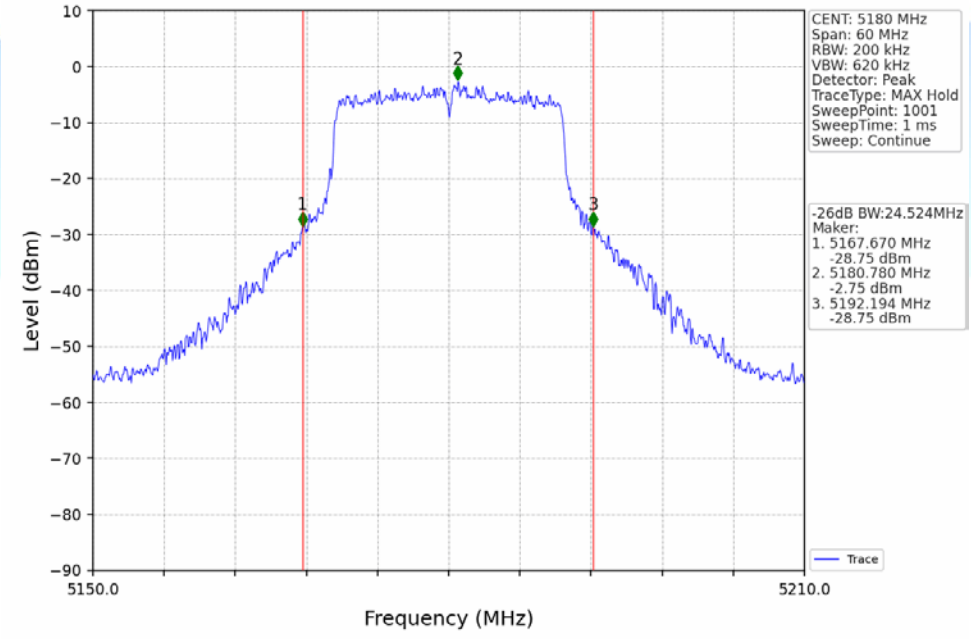
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



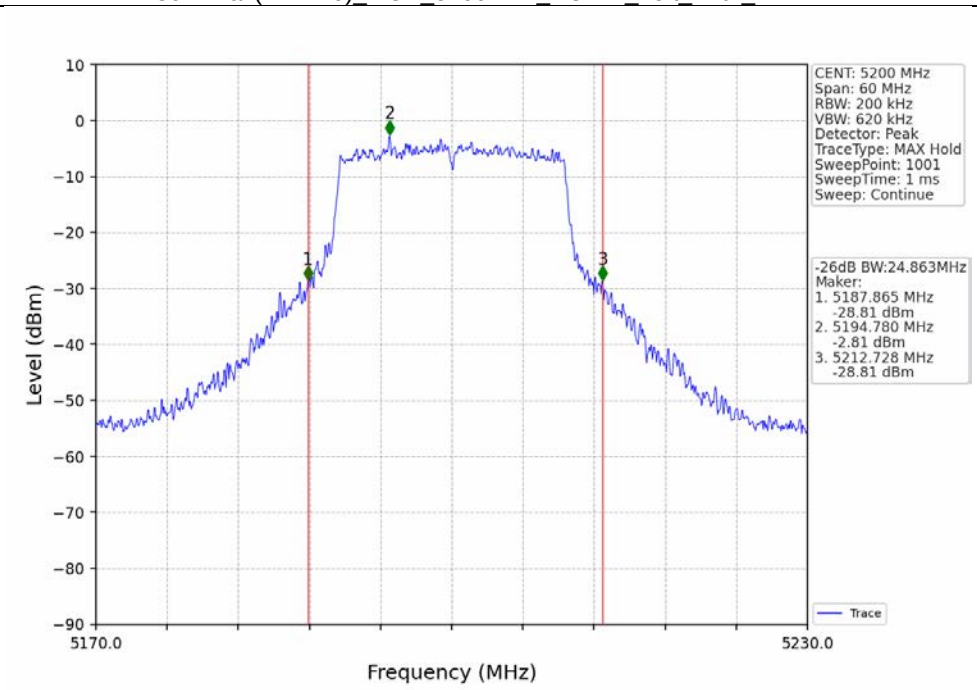
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



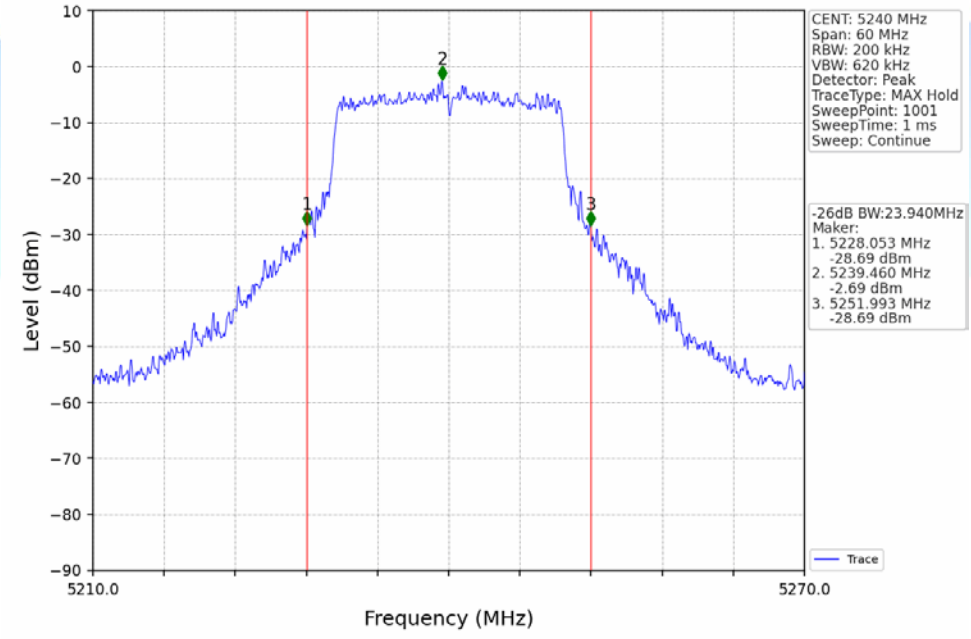
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



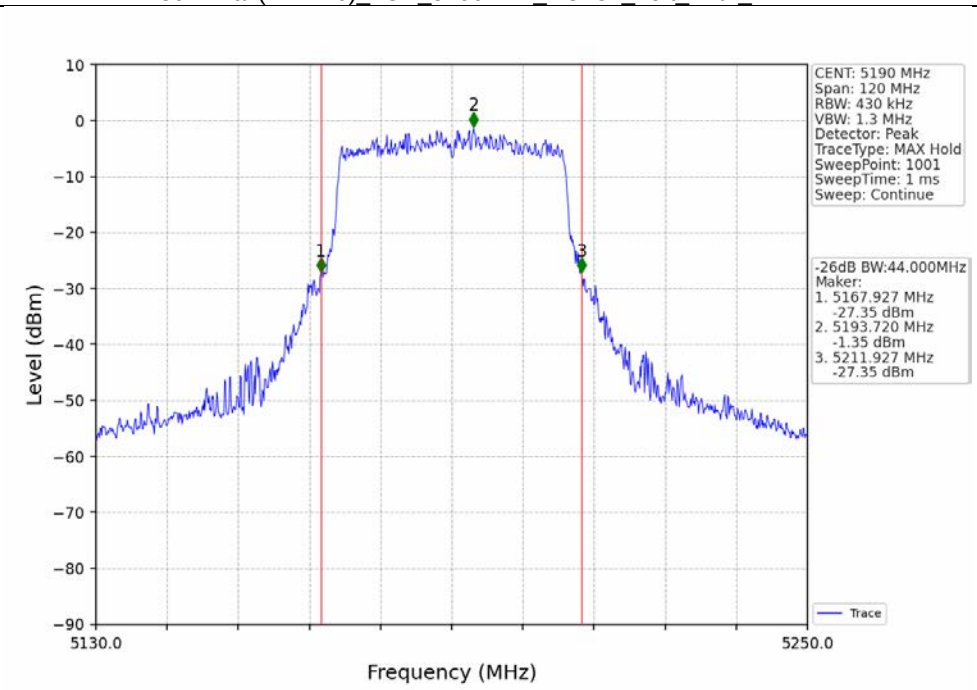
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



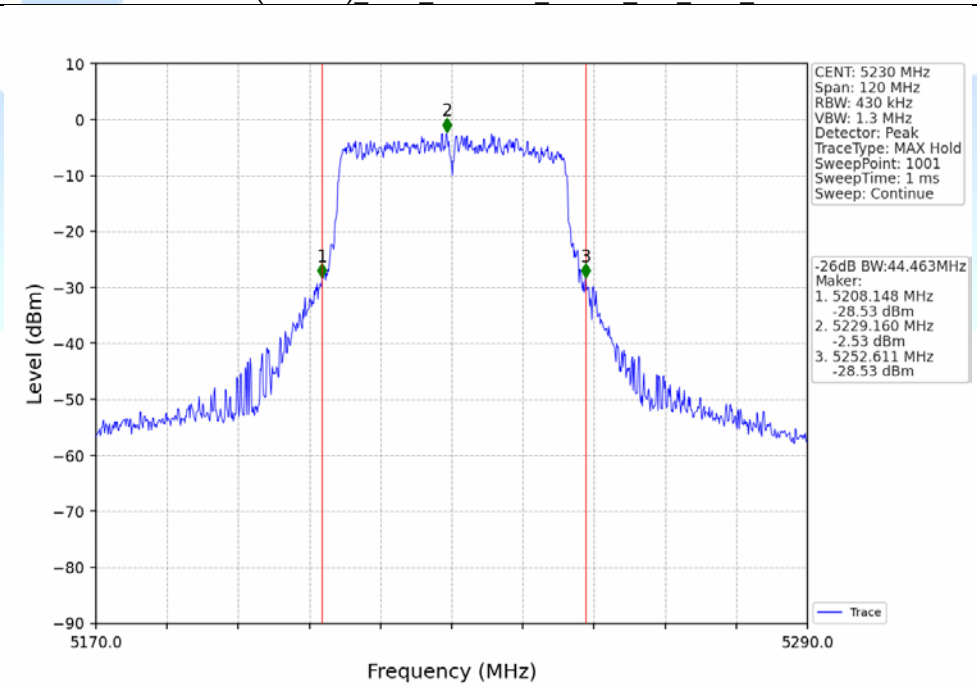
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



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	/	/	4.78	<=23.98	Pass
		5200	/	/	5.37	<=23.98	Pass
		5240	/	/	5.38	<=23.98	Pass
802.11n (HT20)	SISO	5180	/	/	5.50	<=23.98	Pass
		5200	/	/	4.93	<=23.98	Pass
		5240	/	/	5.37	<=23.98	Pass
802.11n (HT40)	SISO	5190	/	/	5.35	<=23.98	Pass
		5230	/	/	4.63	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	/	/	5.54	<=23.98	Pass
		5200	/	/	4.67	<=23.98	Pass
		5240	/	/	3.82	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	/	/	4.76	<=23.98	Pass
		5230	/	/	4.40	<=23.98	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	6.25	<=23.98	Pass
		5200	RU242	Left	6.60	<=23.98	Pass
		5240	RU242	Left	6.05	<=23.98	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	6.24	<=23.98	Pass
		5230	RU484	Left	5.49	<=23.98	Pass
Note1: Antenna Gain: Ant1: 3.72dBi;							

4. Maximum Power Spectral Density

4.1 Test Result

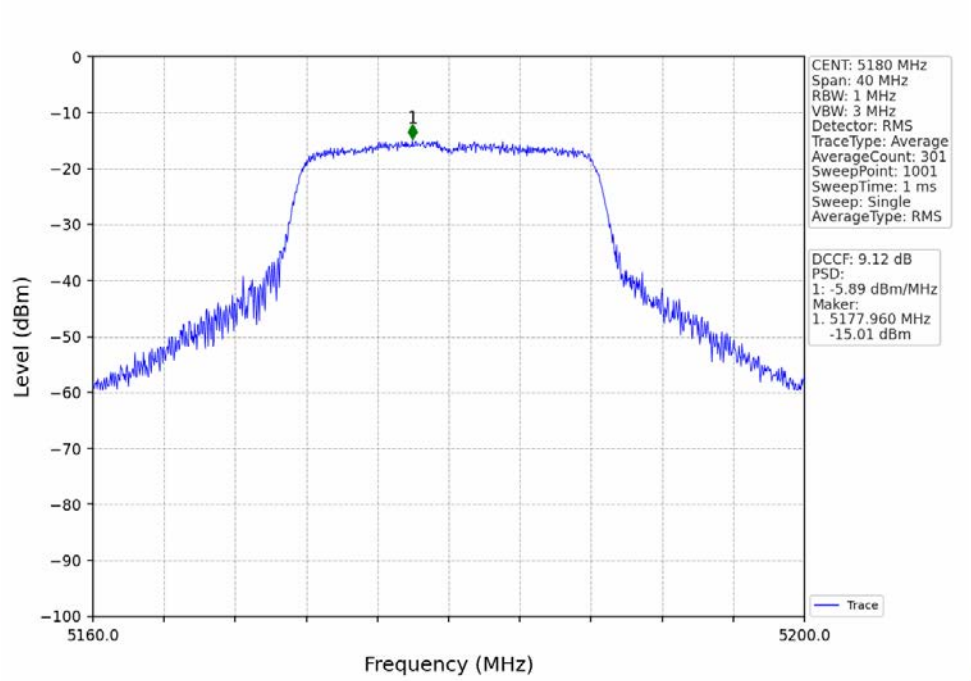
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)		Verdict
					ANT1	Limit	
802.11a	SISO	5180	/	/	-5.89	<=11	Pass
		5200	/	/	-4.73	<=11	Pass
		5240	/	/	-4.91	<=11	Pass
802.11n (HT20)	SISO	5180	/	/	-5.74	<=11	Pass
		5200	/	/	-6.21	<=11	Pass
		5240	/	/	-5.60	<=11	Pass
802.11n (HT40)	SISO	5190	/	/	-8.69	<=11	Pass
		5230	/	/	-9.20	<=11	Pass
802.11ac (VHT20)	SISO	5180	/	/	-5.79	<=11	Pass
		5200	/	/	-6.50	<=11	Pass
		5240	/	/	-7.61	<=11	Pass
802.11ac (VHT40)	SISO	5190	/	/	-9.42	<=11	Pass
		5230	/	/	-9.69	<=11	Pass
802.11ax (HEW20)	SISO	5180	RU242	Left	-4.99	<=11	Pass
		5200	RU242	Left	-4.69	<=11	Pass
		5240	RU242	Left	-4.53	<=11	Pass
802.11ax (HEW40)	SISO	5190	RU484	Left	-7.93	<=11	Pass
		5230	RU484	Left	-9.06	<=11	Pass
Note1: Antenna Gain: Ant1: 3.72dBi; Note2: Test result contains DCCF							

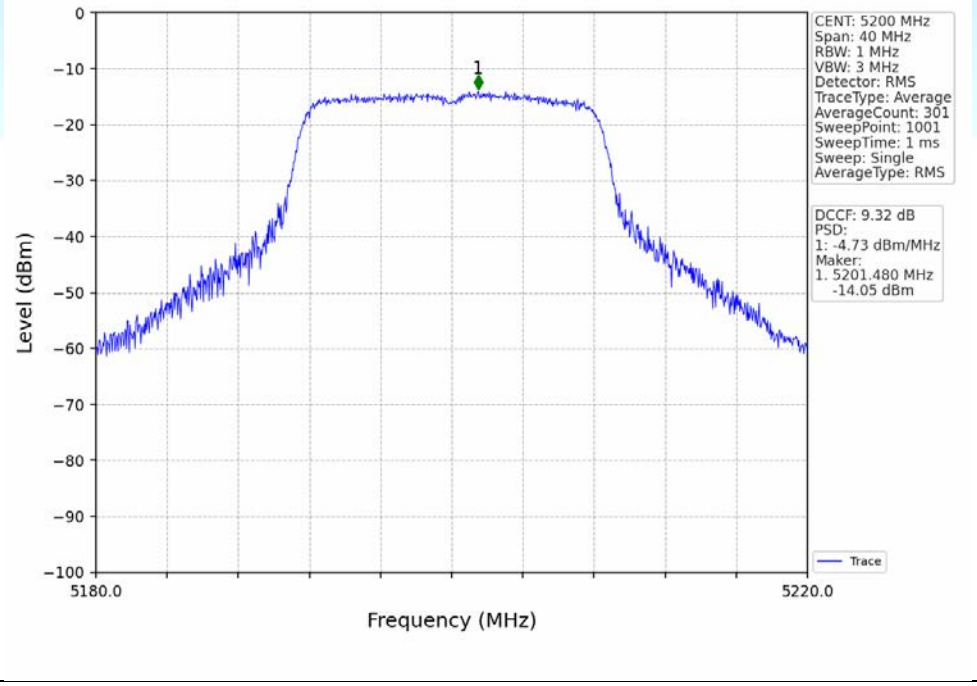
4.2 Test Graph

4.2.1 PSD

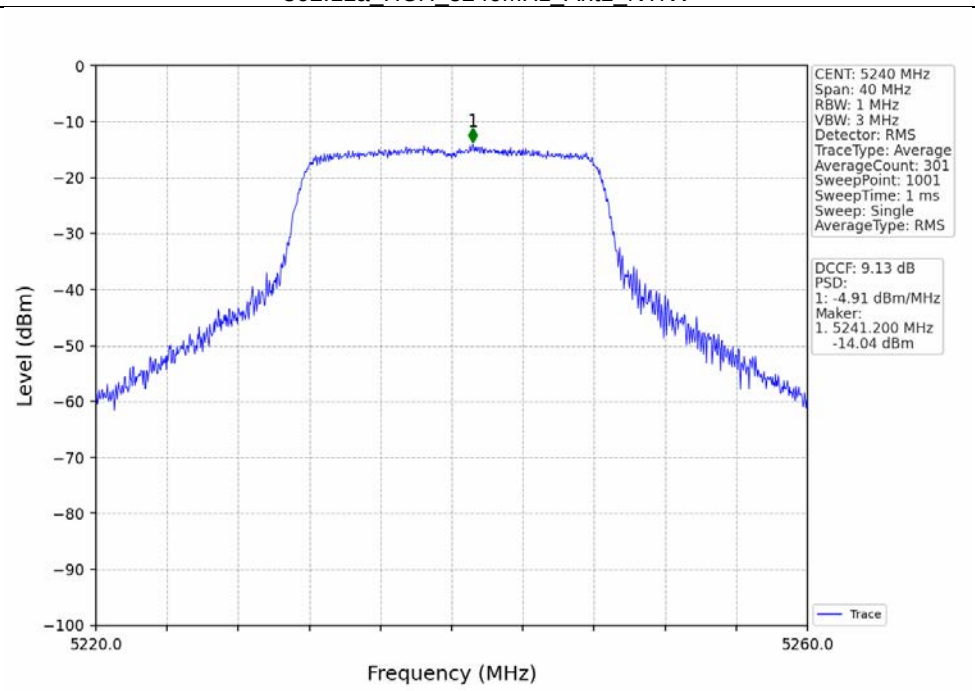
802.11a_LCH_5180MHz_Ant1_NTNV



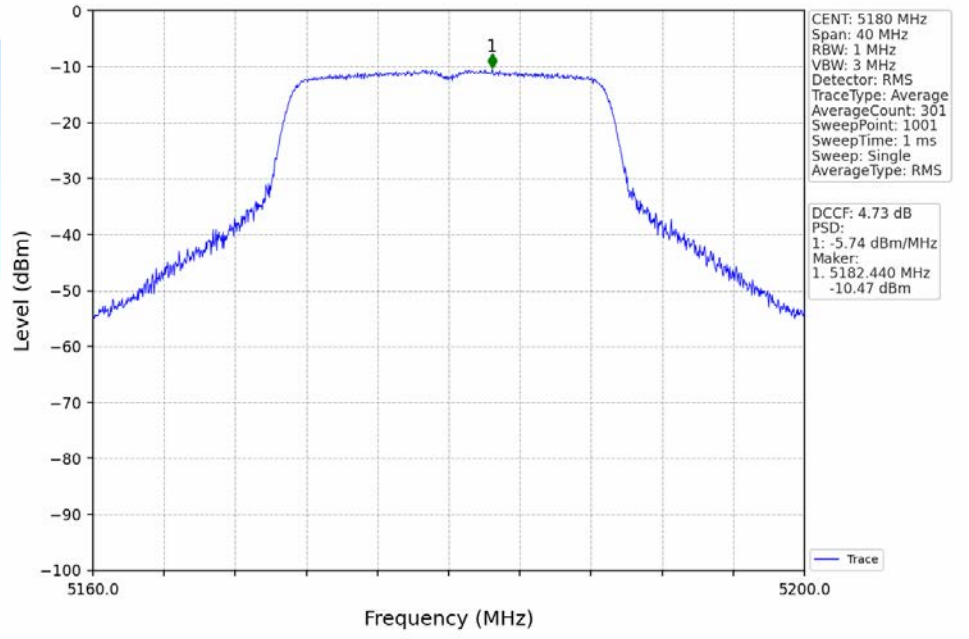
802.11a_MCH_5200MHz_Ant1_NTNV



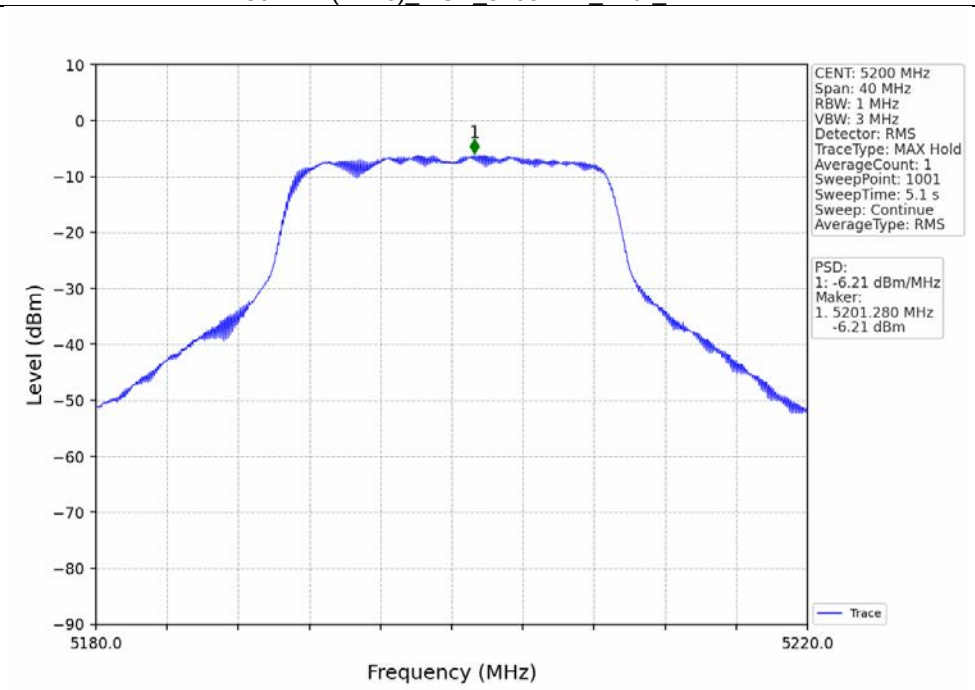
802.11a_HCH_5240MHz_Ant1_NTNV



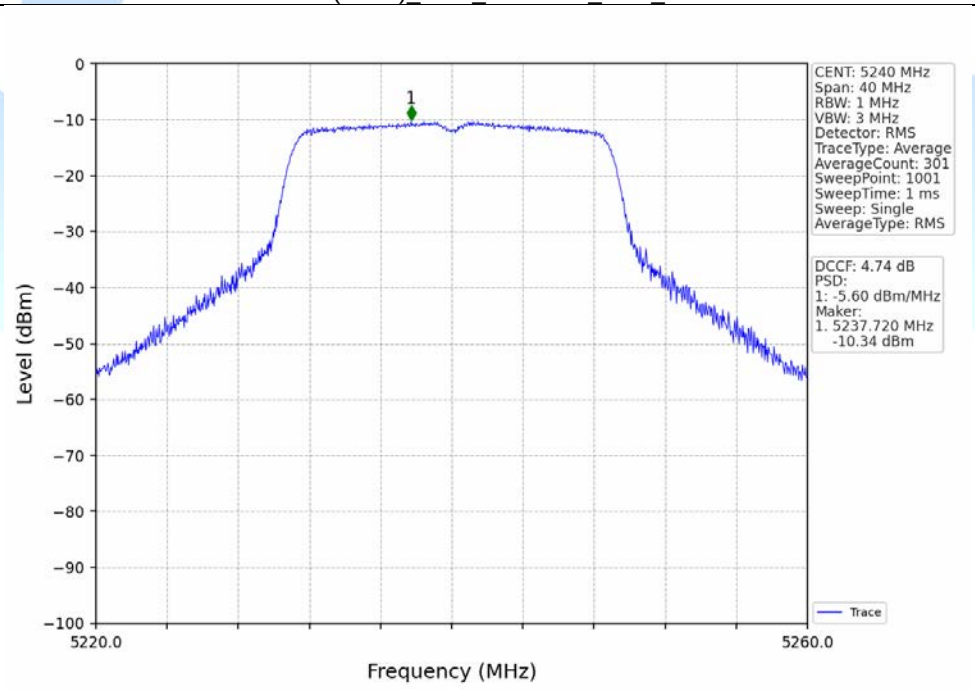
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



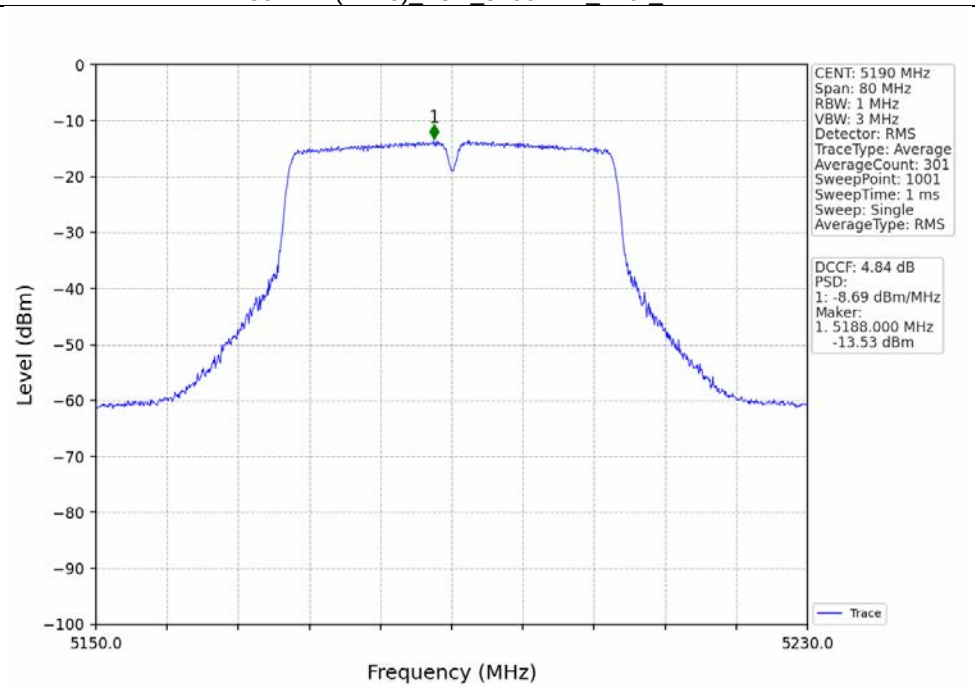
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



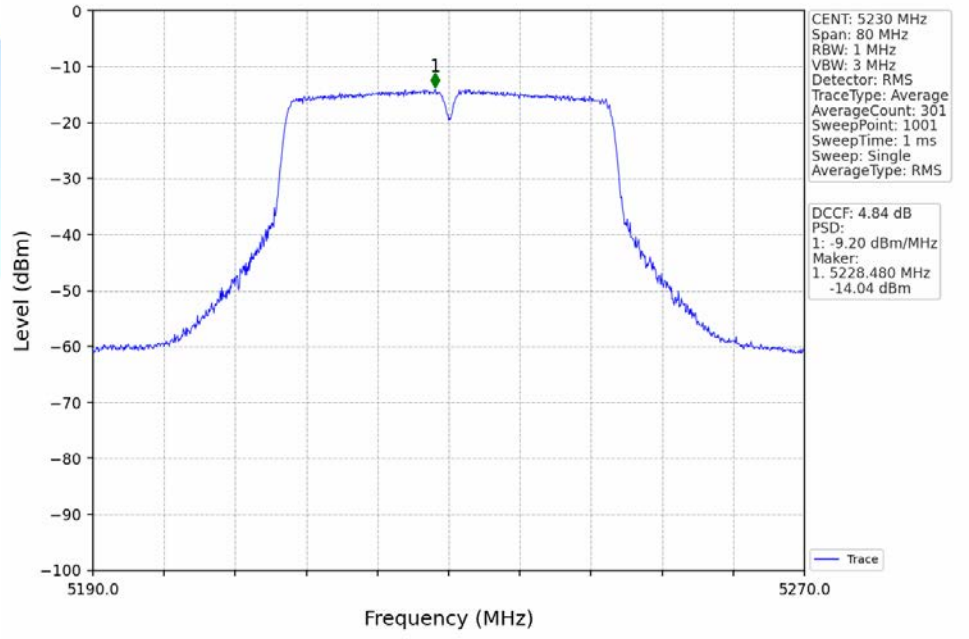
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



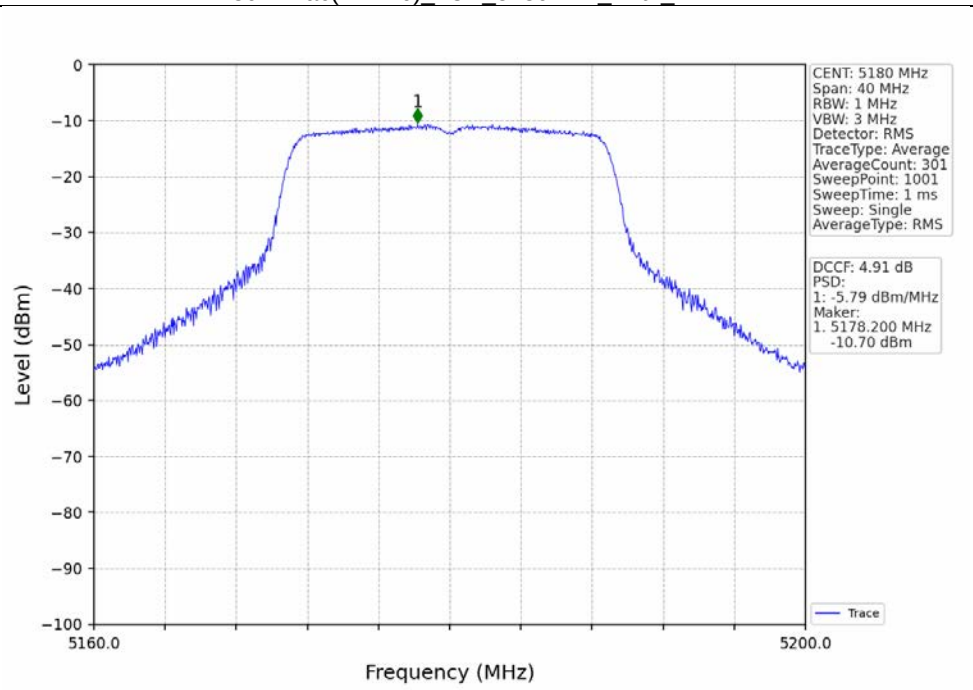
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



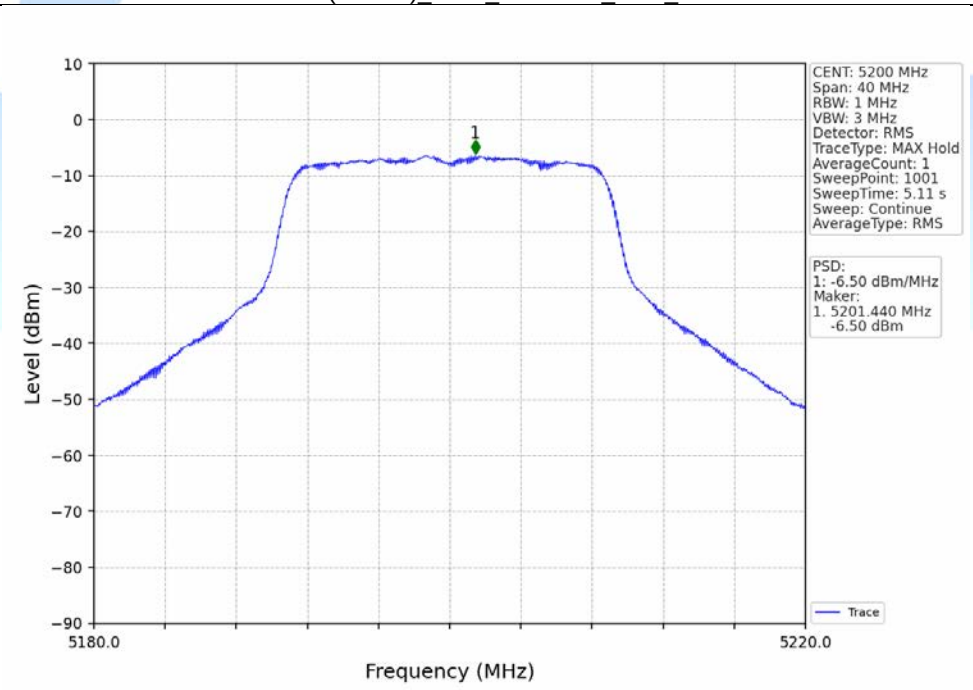
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



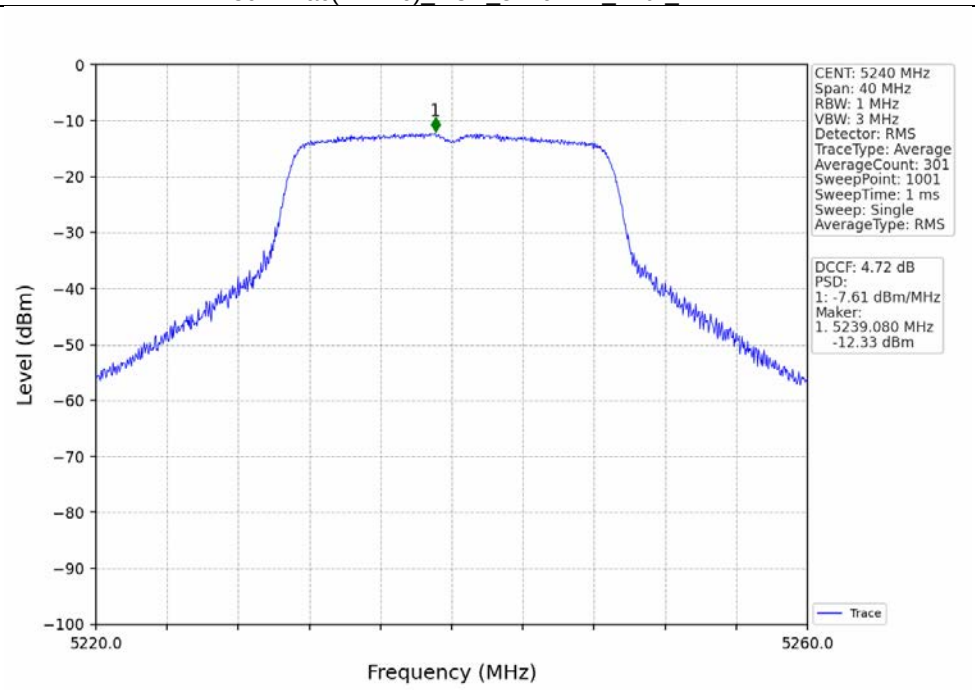
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



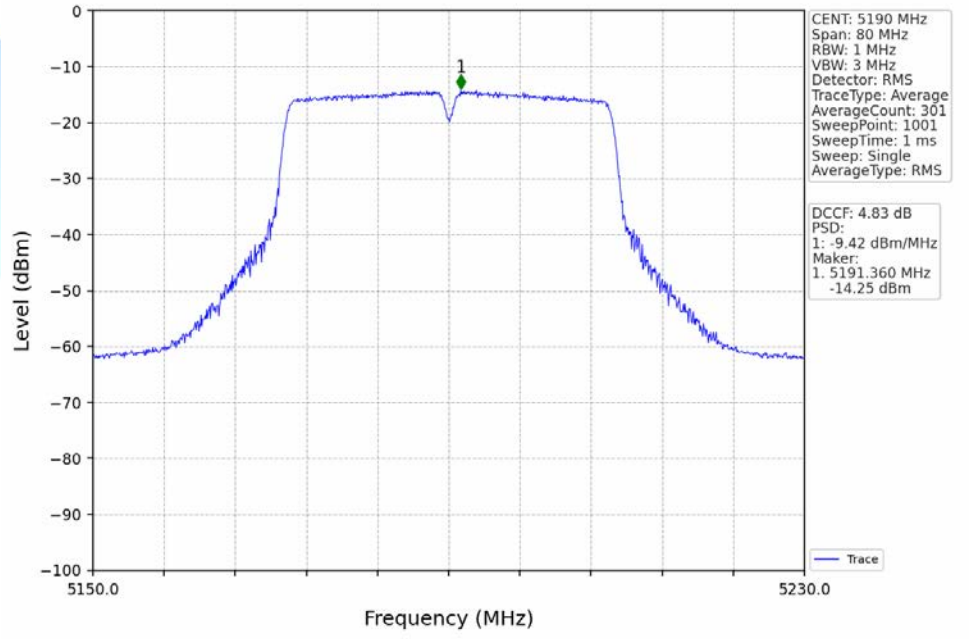
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



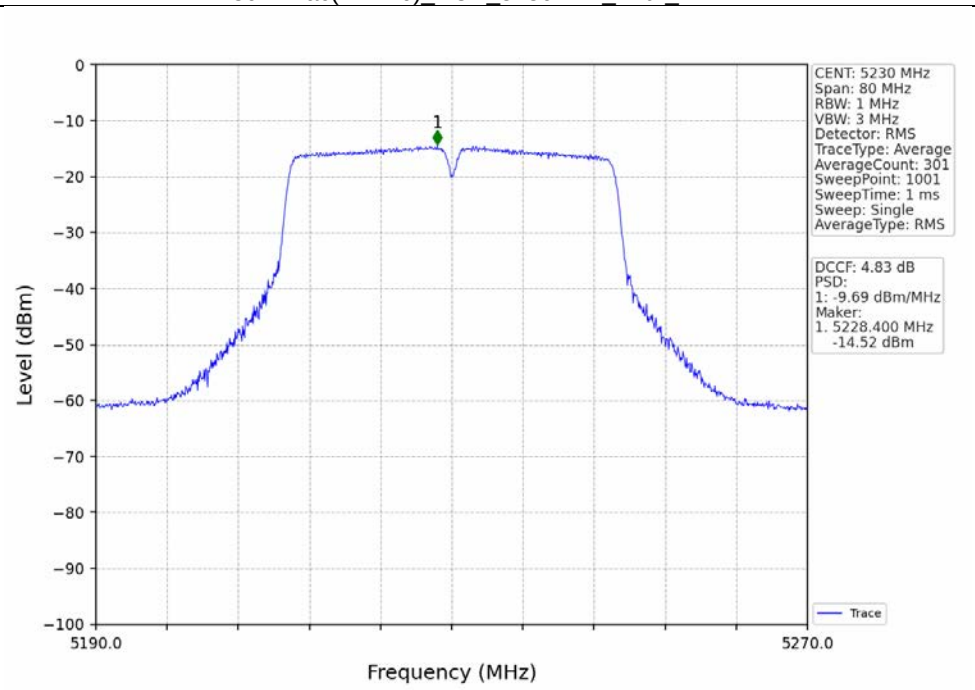
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



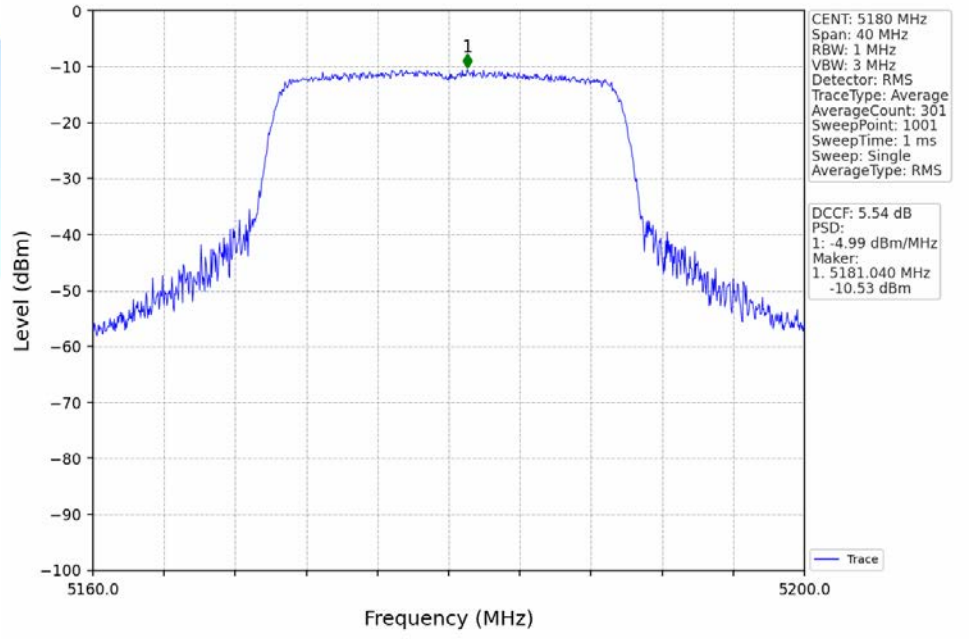
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



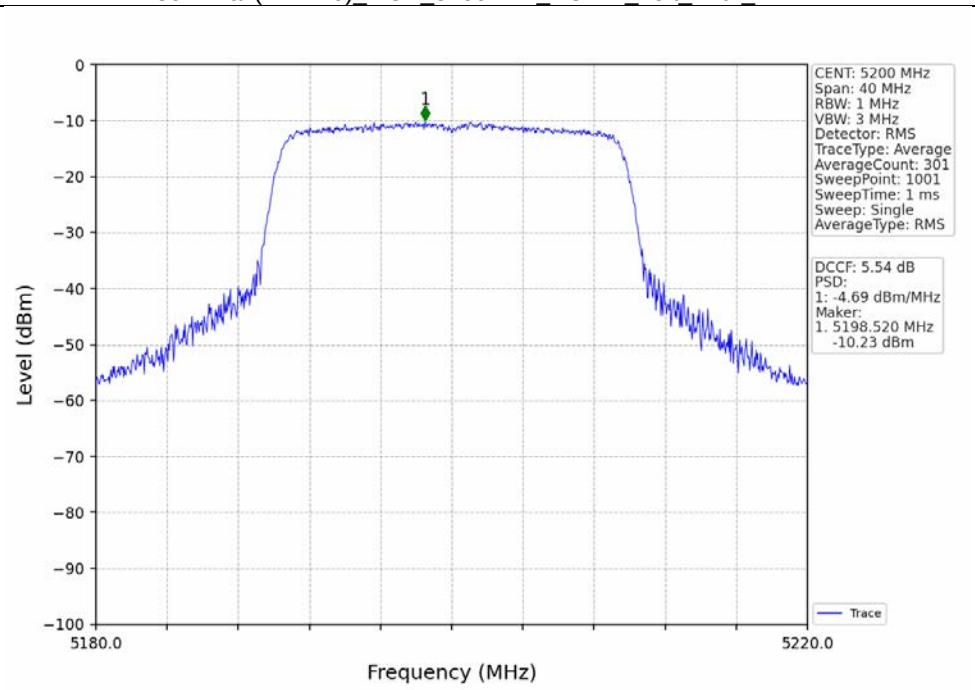
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



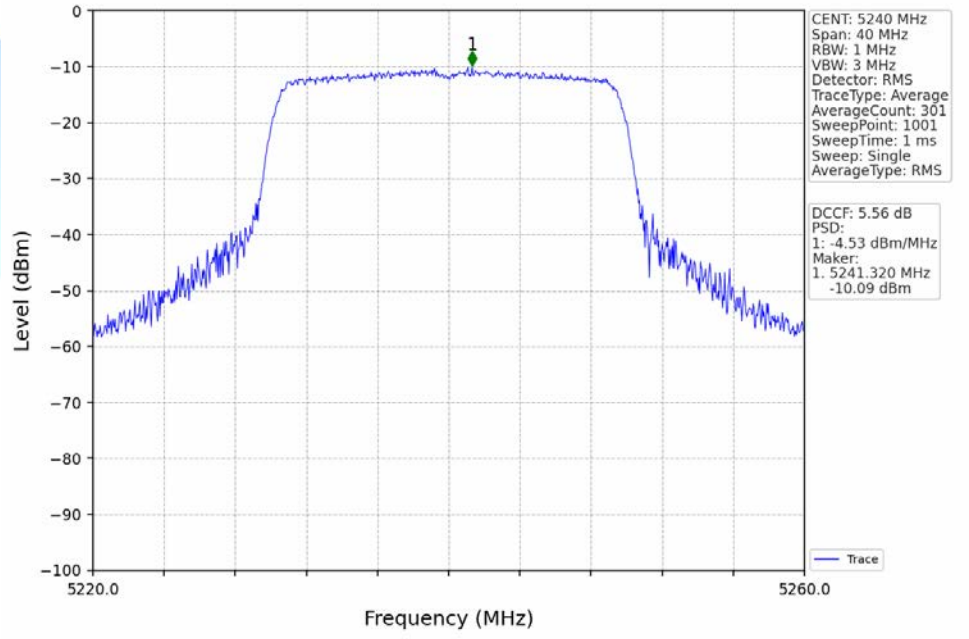
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



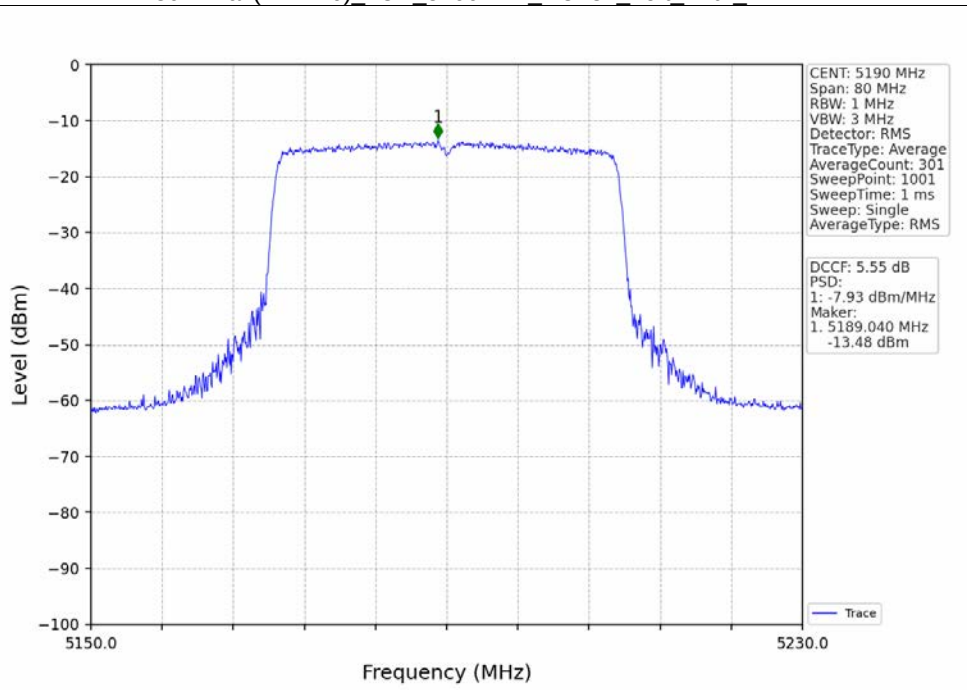
802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV



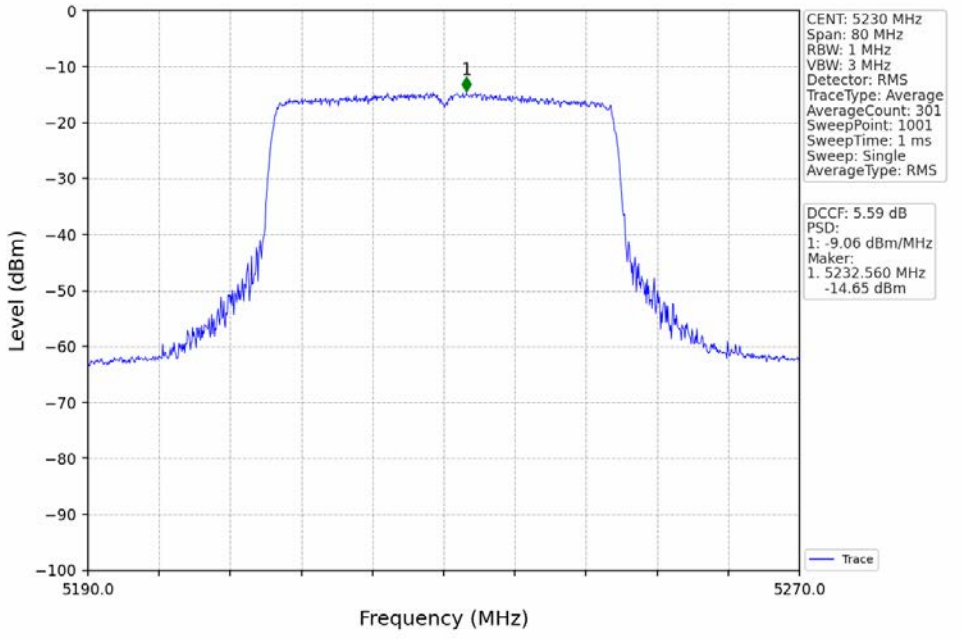
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



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

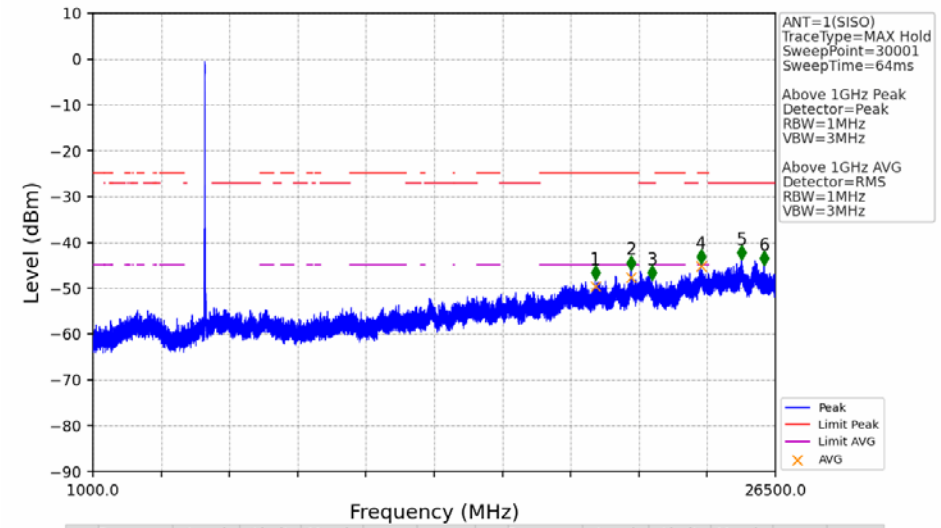
5.1.1 RSE

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

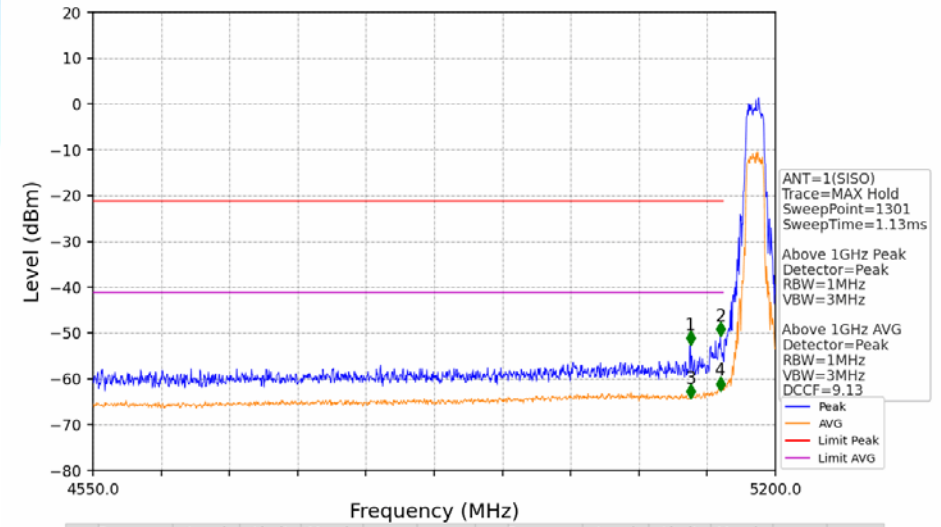
5.2.1 RSE

802.11a_LCH_5180MHz_Ant1_NTNV



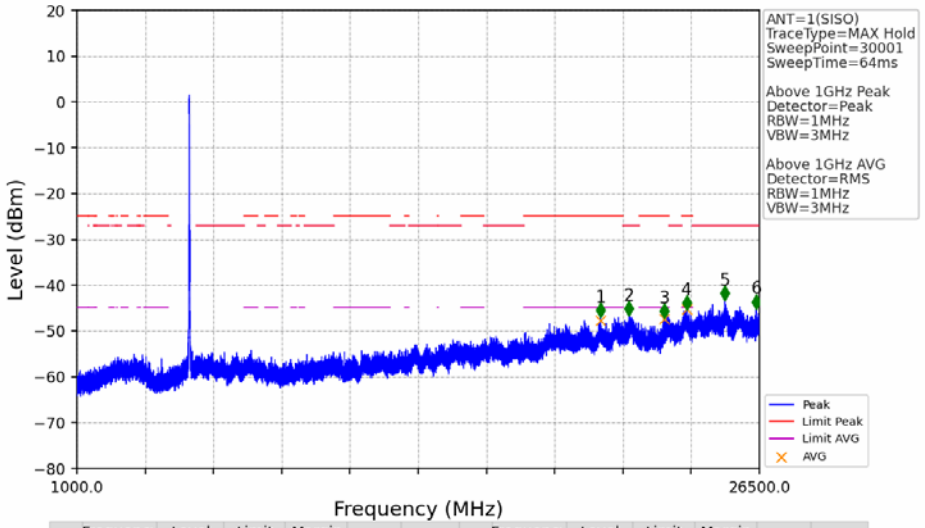
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	19763.75	-48.25	-21.20	23.33	Pass	Peak	7	19763.75	-49.62	-41.20	4.70	Pass	AVG
2	21103.35	-46.01	-21.20	21.09	Pass	Peak	8	21103.35	-47.73	-41.20	2.81	Pass	AVG
3	21898.95	-48.21	-27.00	17.49	Pass	Peak	9	21898.95	/	-27.00	/	/	AVG
4	23713.7	-44.72	-21.20	19.80	Pass	Peak	10	23713.7	-45.27	-41.20	0.35	Pass	AVG
5	25219.9	-43.75	-27.00	13.03	Pass	Peak	11	25219.9	/	-27.00	/	/	AVG
6	26075.85	-45.05	-27.00	14.33	Pass	Peak	12	26075.85	/	-27.00	/	/	AVG

802.11a_LCH_5180MHz_Ant1_NTNV



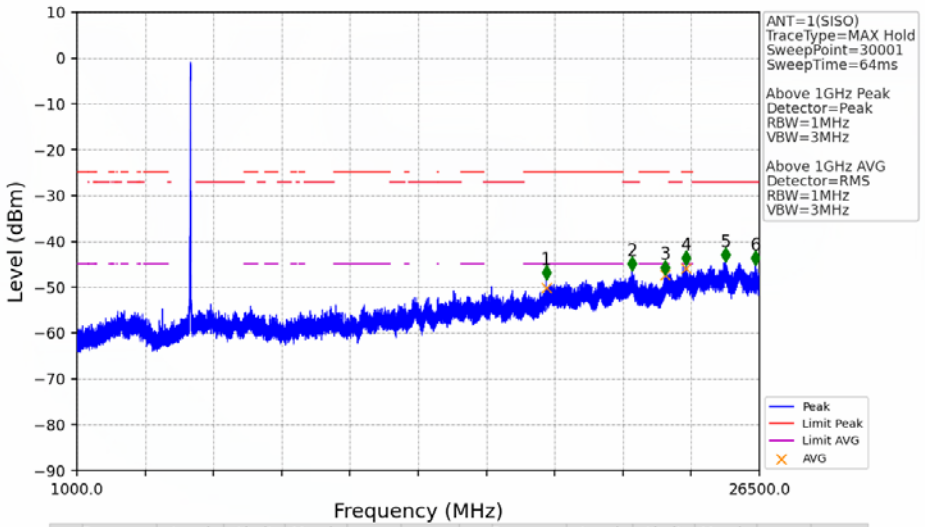
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5119.000	-52.65	-21.20	27.73	Pass	Peak	3	5119.000	/	-21.20	/	/	AVG
2	5147.500	-50.77	-21.20	25.84	Pass	Peak	4	5147.500	/	-21.20	/	/	AVG

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	20557.65	-47.03	-21.20	22.11	Pass	Peak	7	20557.65	-47.73	-41.20	2.81	Pass	AVG
2	21627.8	-46.73	-27.00	16.02	Pass	Peak	8	21627.8	/	-27.00	/	/	AVG
3	22952.95	-47.25	-21.20	22.33	Pass	Peak	9	22952.95	-47.35	-41.20	2.43	Pass	AVG
4	23785.1	-45.42	-21.20	20.50	Pass	Peak	10	23785.1	-45.26	-41.20	0.34	Pass	AVG
5	25210.55	-43.37	-27.00	12.65	Pass	Peak	11	25210.55	/	-27.00	/	/	AVG
6	26378.45	-45.19	-27.00	14.47	Pass	Peak	12	26378.45	/	-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	18529.55	-48.36	-21.20	23.44	Pass	Peak	7	18529.55	-50.16	-41.20	5.24	Pass	AVG
2	21734.05	-46.52	-27.00	15.80	Pass	Peak	8	21734.05	/	-27.00	/	/	AVG
3	22986.95	-47.25	-21.20	22.33	Pass	Peak	9	22986.95	-47.32	-41.20	2.40	Pass	AVG
4	23769.8	-45.21	-21.20	20.29	Pass	Peak	10	23769.8	-45.86	-41.20	0.94	Pass	AVG
5	25238.6	-44.45	-27.00	13.73	Pass	Peak	11	25238.6	/	-27.00	/	/	AVG
6	26348.7	-45.20	-27.00	14.48	Pass	Peak	12	26348.7	/	-27.00	/	/	AVG