Appendix - 5G WiFi

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	1.360	1.862	73.04	1.36	0.06
		5200	1.361	1.863	73.05	1.36	0.02
		5240	1.360	1.862	73.04	1.36	0.03
		5745	1.361	1.862	73.09	1.36	0.03
		5785	1.361	1.863	73.05	1.36	0.03
		5825	1.361	1.863	73.05	1.36	0.03
802.11n (HT20)	SISO	5180	1.273	1.774	71.76	1.44	0.03
		5200	1.273	1.775	71.72	1.44	0.02
		5240	1.272	1.774	71.70	1.44	0.03
		5745	1.273	1.774	71.76	1.44	0.03
		5785	1.273	1.774	71.76	1.44	0.03
		5825	1.273	1.774	71.76	1.44	0.03

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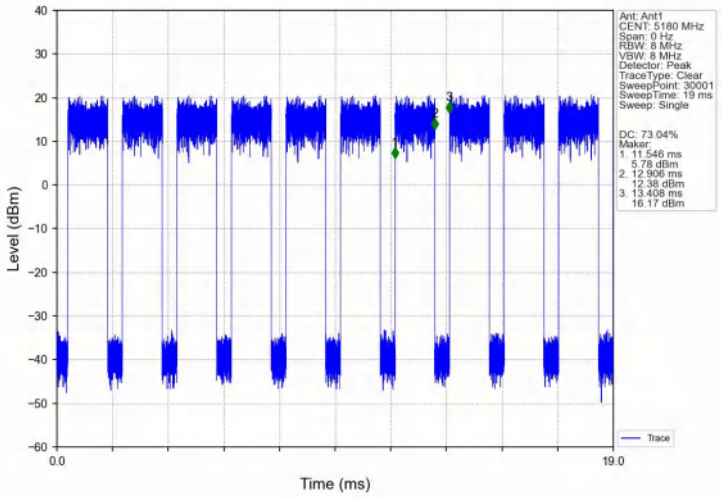
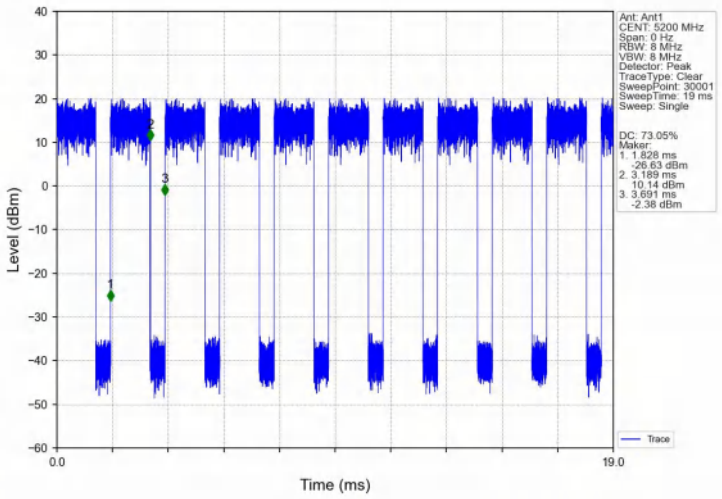
1.2 Test Graph

1.2.1 Ant1

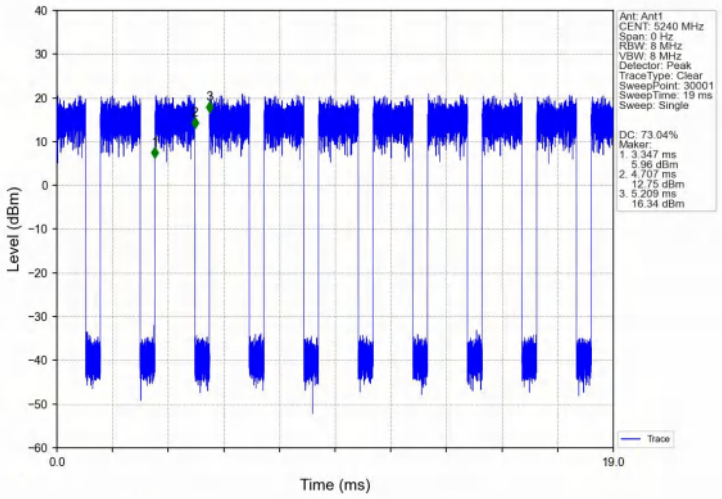
802.11a_LCH_5180MHz_Ant1_NTNV



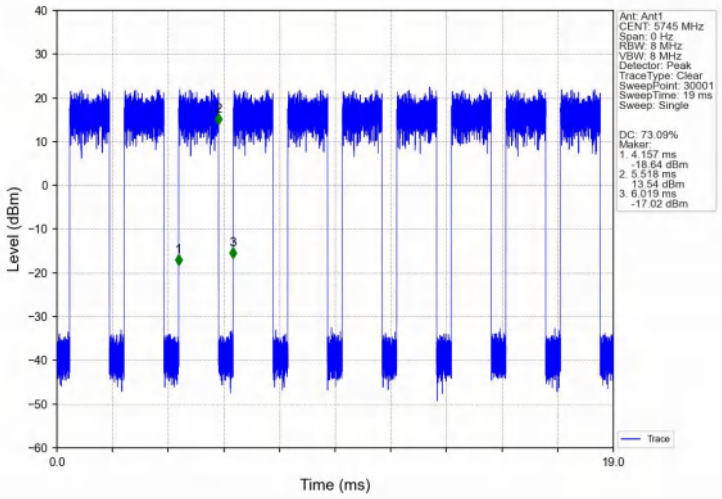
802.11a_MCH_5200MHz_Ant1_NTNV



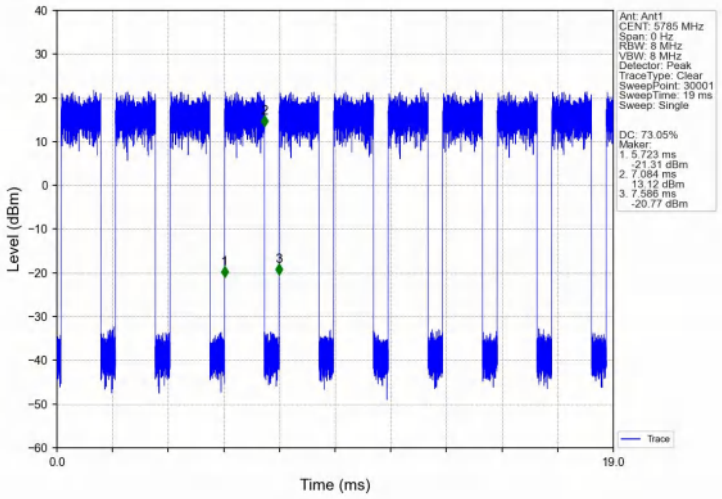
802.11a_HCH_5240MHz_Ant1_NTNV



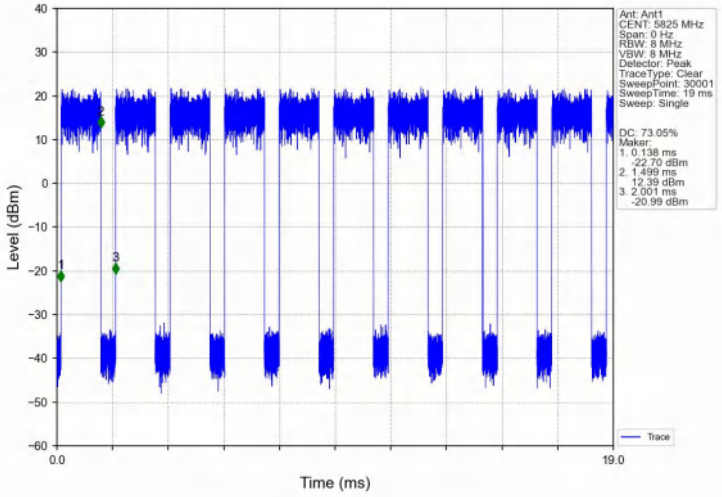
802.11a_LCH_5745MHz_Ant1_NTNV



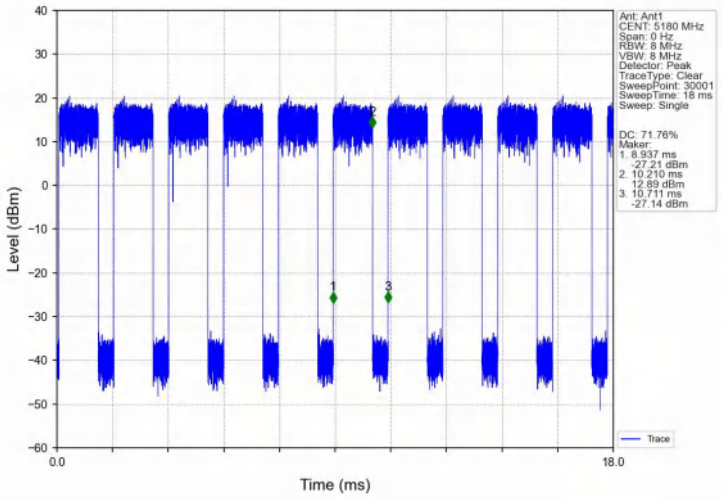
802.11a_MCH_5785MHz_Ant1_NTNV



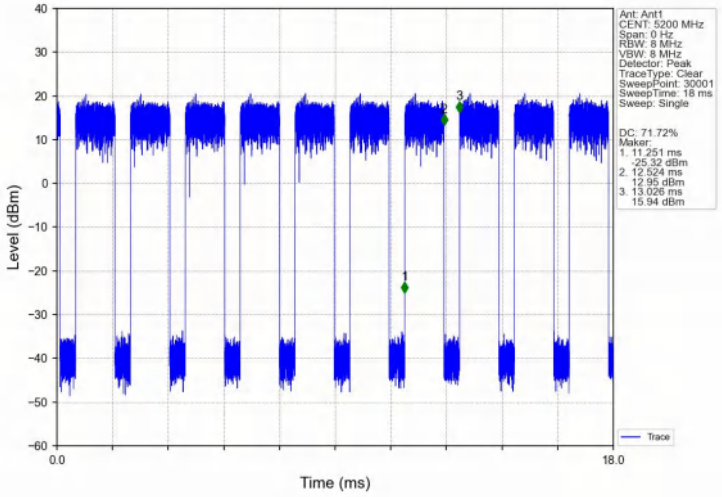
802.11a_HCH_5825MHz_Ant1_NTNV



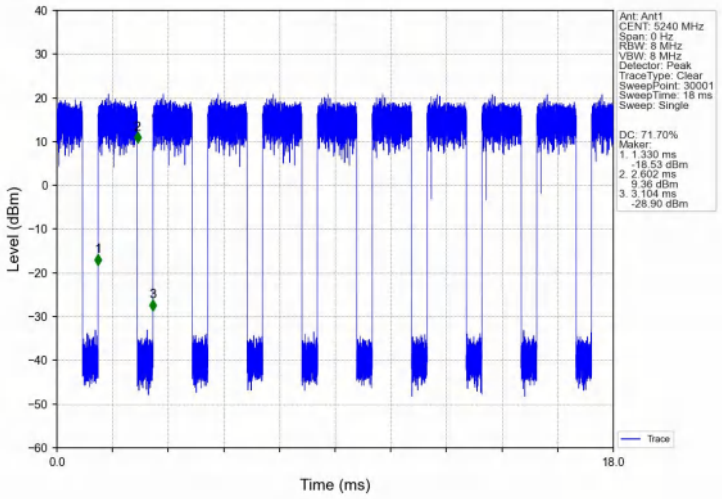
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



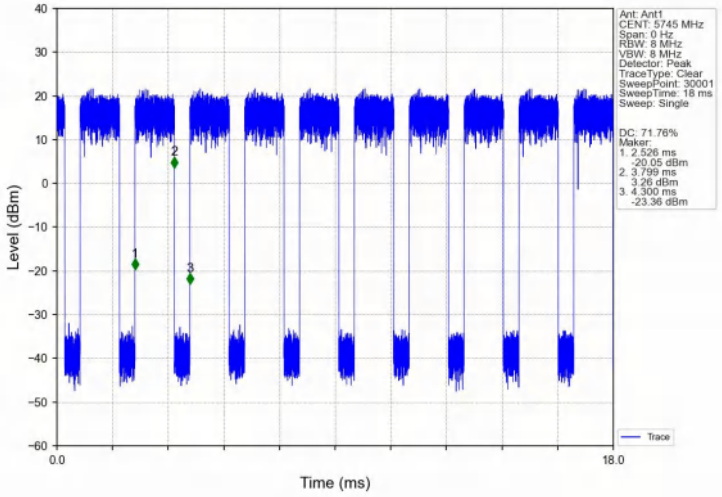
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



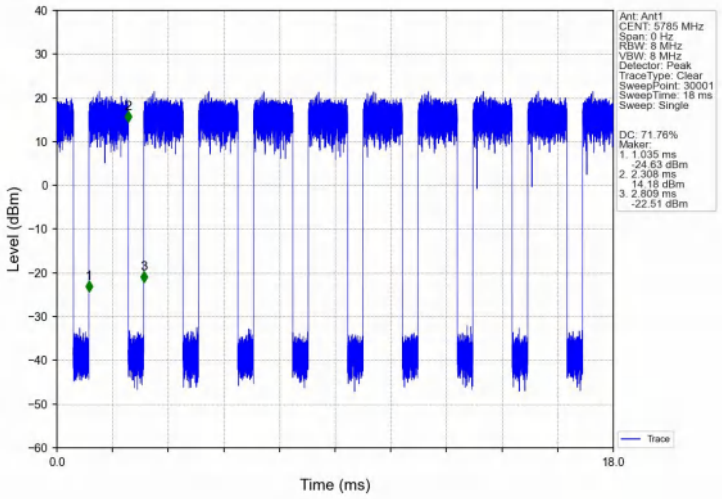
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



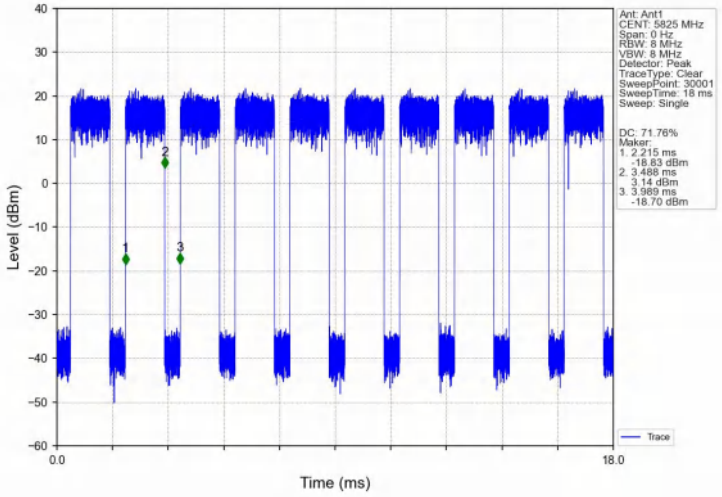
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_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	16.701	/	Pass
		5200	1	16.775	/	Pass
		5240	1	16.688	/	Pass
		5745	1	16.819	/	Pass
		5785	1	16.767	/	Pass
		5825	1	16.781	/	Pass
802.11n (HT20)	SISO	5180	1	17.732	/	Pass
		5200	1	17.772	/	Pass
		5240	1	17.742	/	Pass
		5745	1	17.823	/	Pass
		5785	1	17.806	/	Pass
		5825	1	17.836	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	19.053	/	Pass
		5200	1	18.891	/	Pass
		5240	1	19.056	/	Pass
802.11n (HT20)	SISO	5180	1	19.707	/	Pass
		5200	1	19.968	/	Pass
		5240	1	20.445	/	Pass

2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.108	>=0.5	Pass
		5785	1	11.805	>=0.5	Pass
		5825	1	14.212	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	15.031	>=0.5	Pass
		5785	1	13.783	>=0.5	Pass
		5825	1	15.113	>=0.5	Pass

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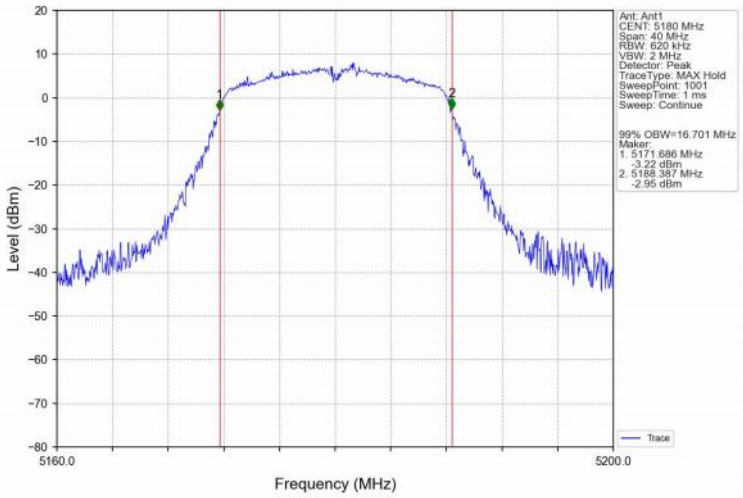
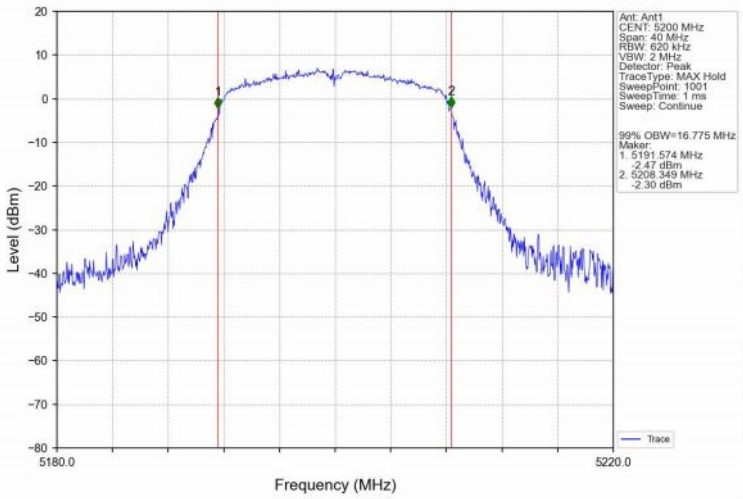
2.2 Test Graph

2.2.1 OBW

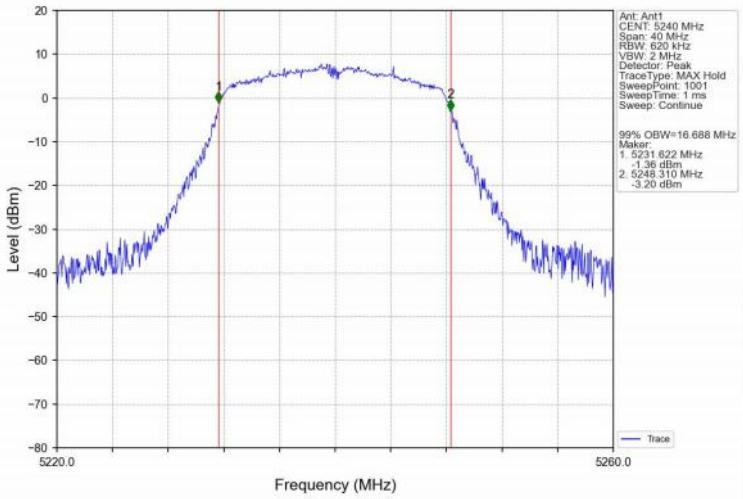
802.11a_LCH_5180MHz_Ant1_NTNV



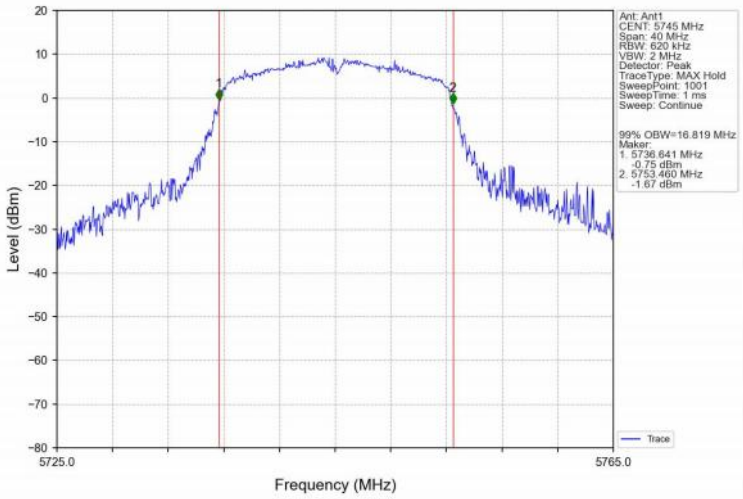
802.11a_MCH_5200MHz_Ant1_NTNV



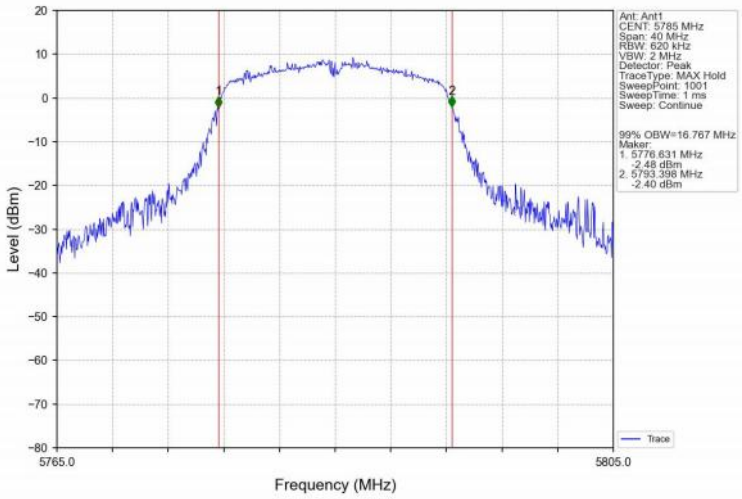
802.11a_HCH_5240MHz_Ant1_NTNV



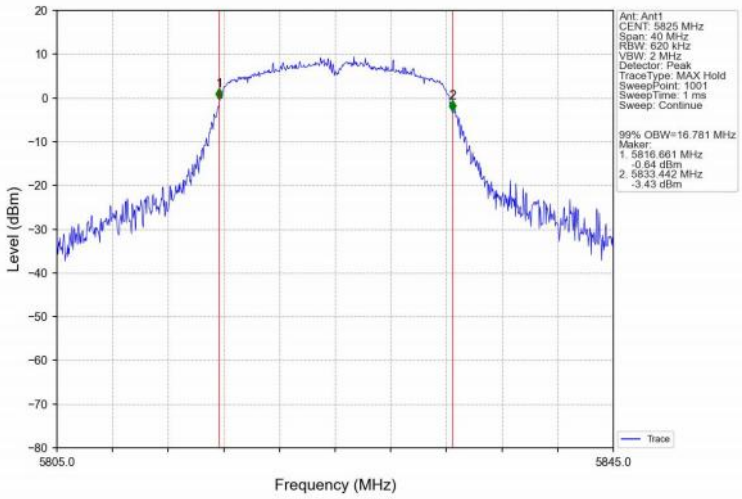
802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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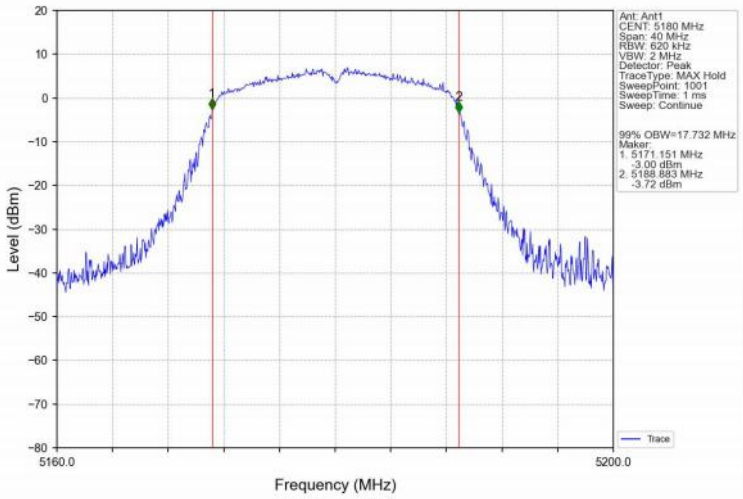
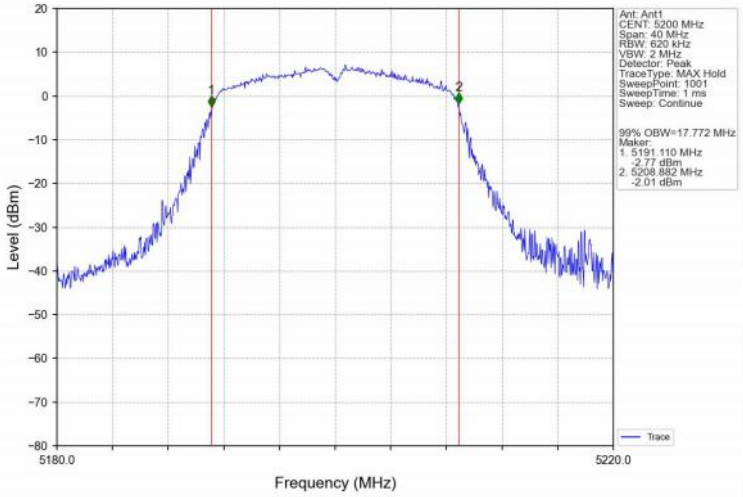
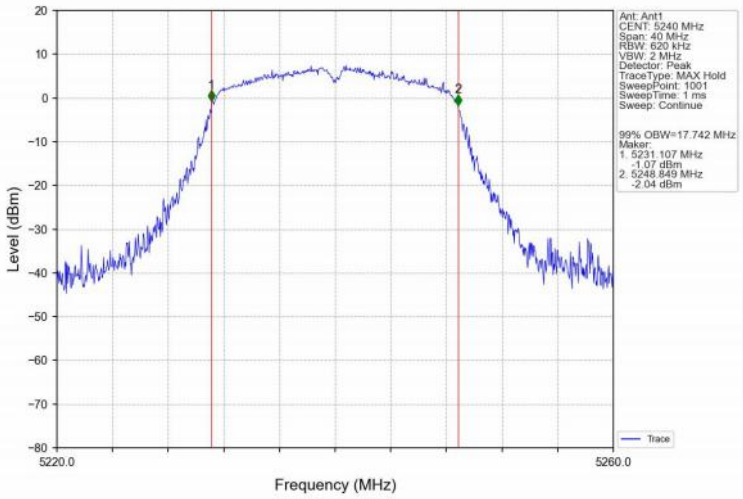
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



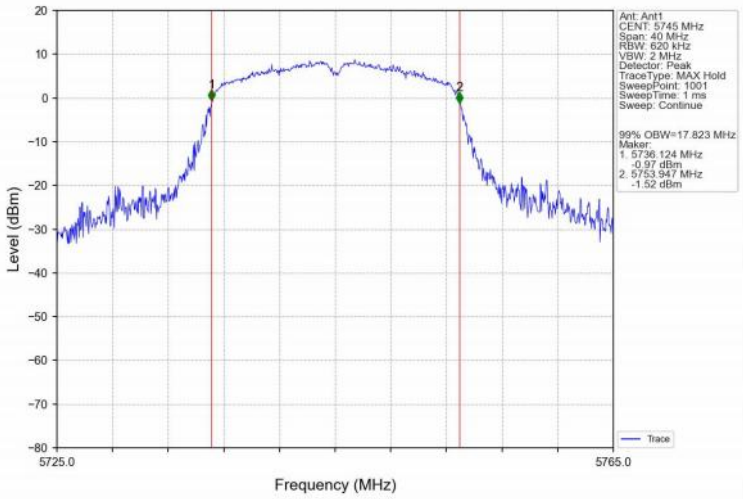
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



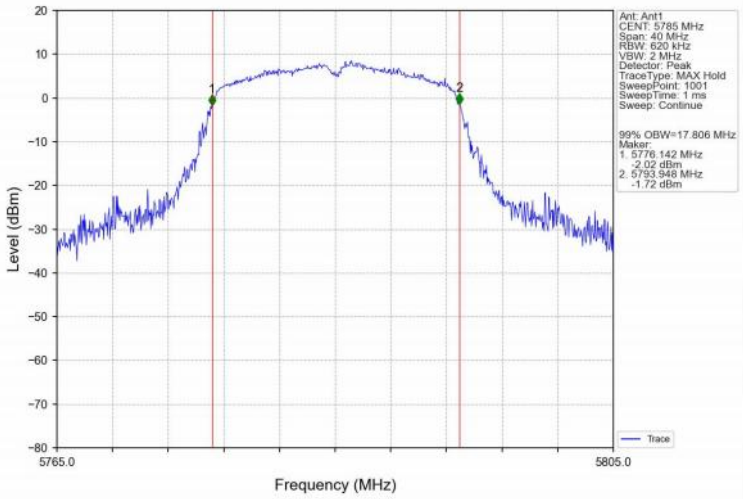
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



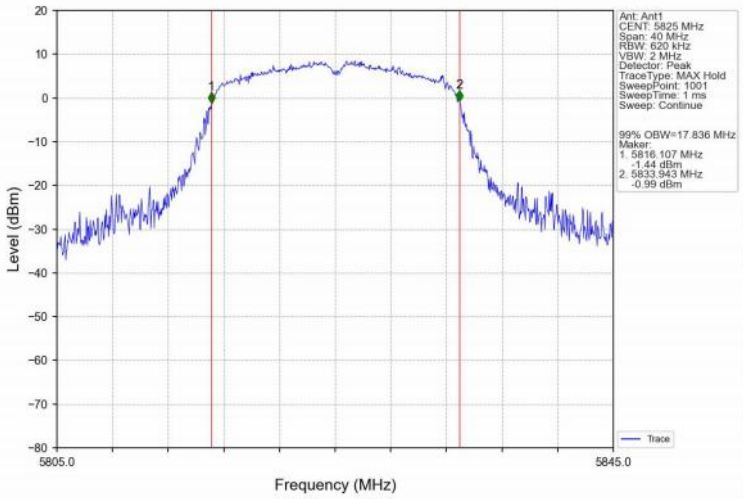
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

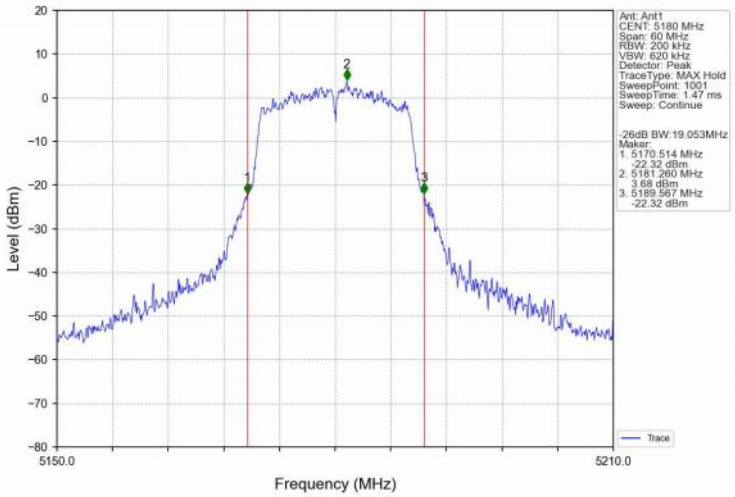


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

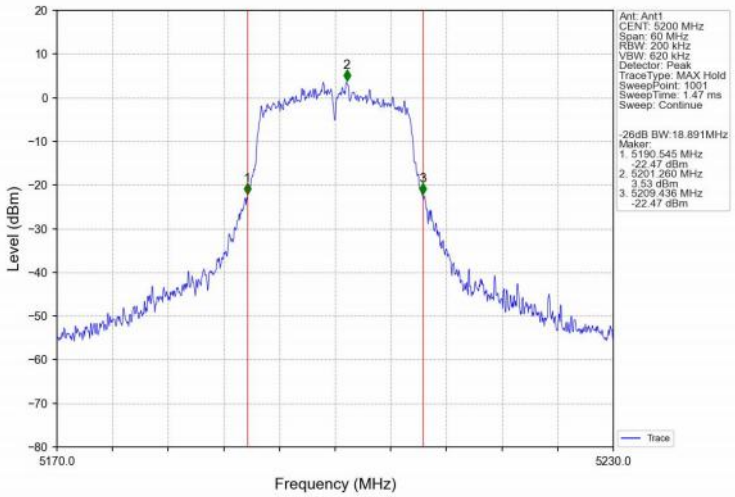


2.2.2 26dB BW

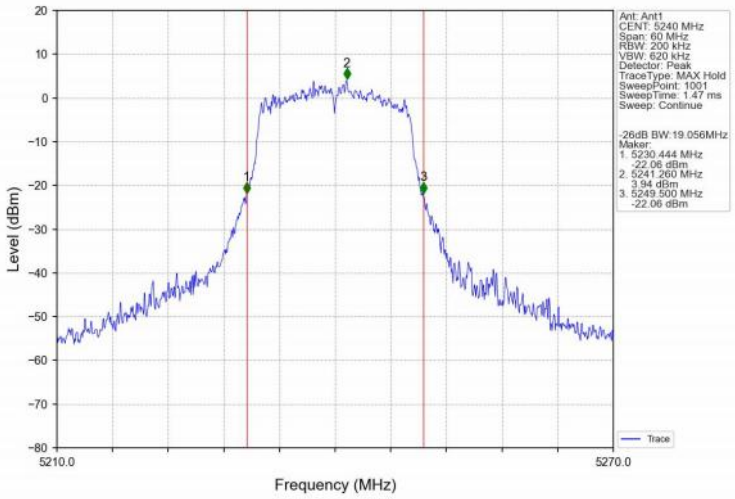
802.11a_LCH_5180MHz_Ant1_NTNV



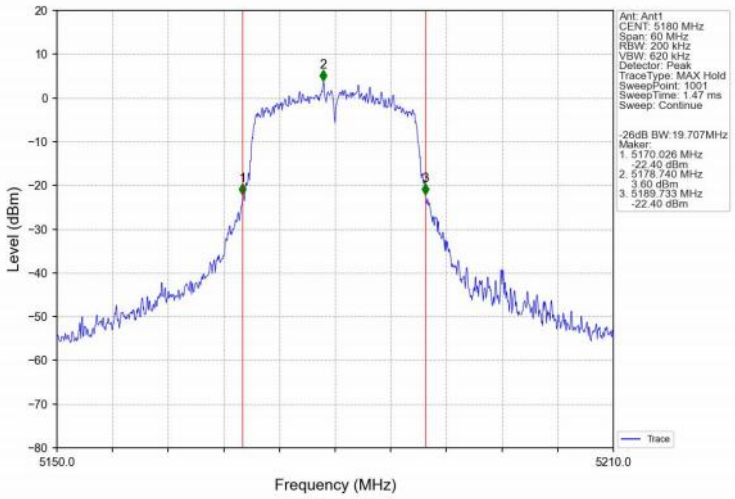
802.11a_MCH_5200MHz_Ant1_NTNV



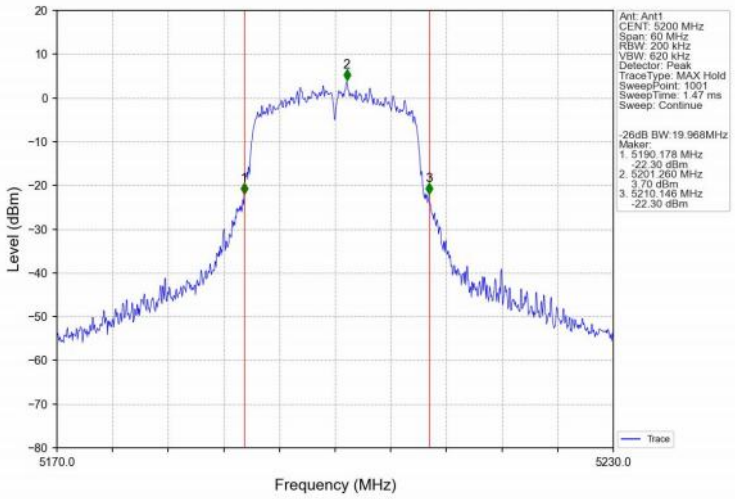
802.11a_HCH_5240MHz_Ant1_NTNV



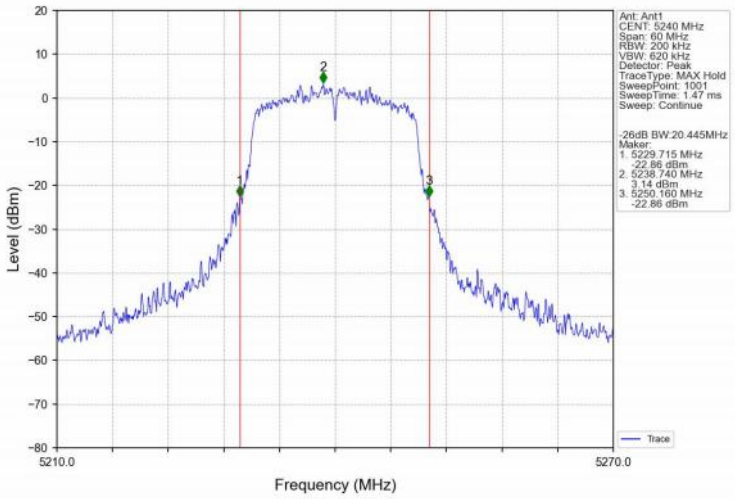
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

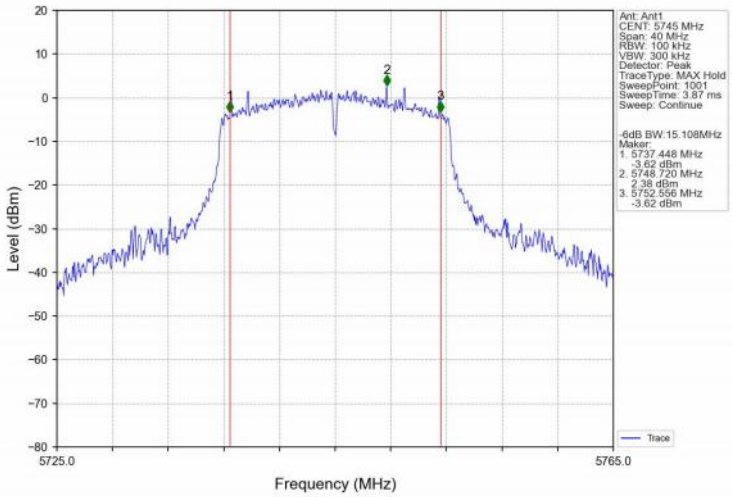


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

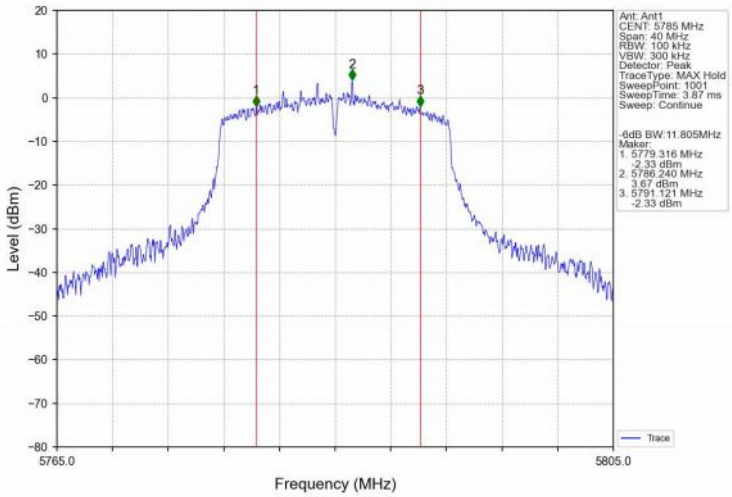


2.2.3 6dB BW

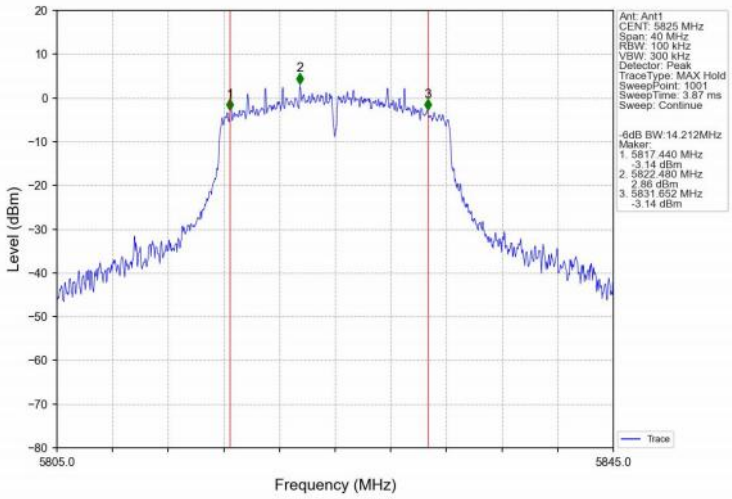
802.11a_LCH_5745MHz_Ant1_NTNV



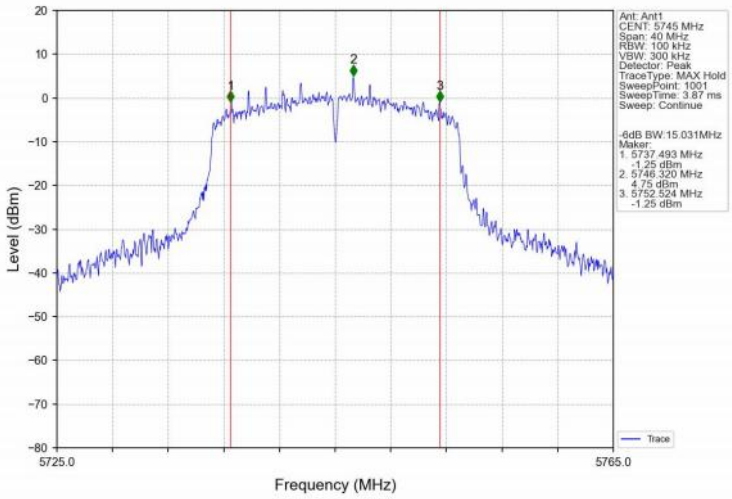
802.11a_MCH_5785MHz_Ant1_NTNV



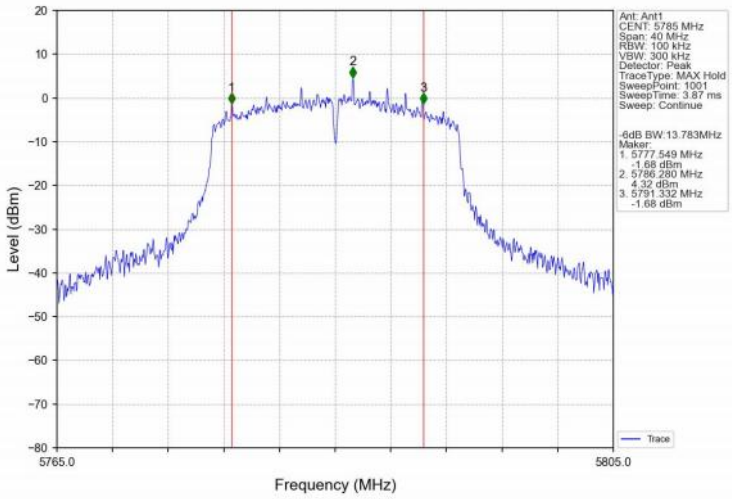
802.11a_HCH_5825MHz_Ant1_NTNV



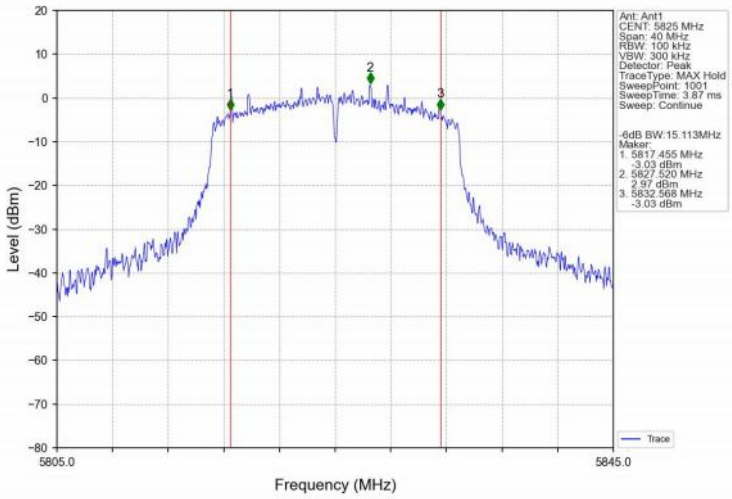
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

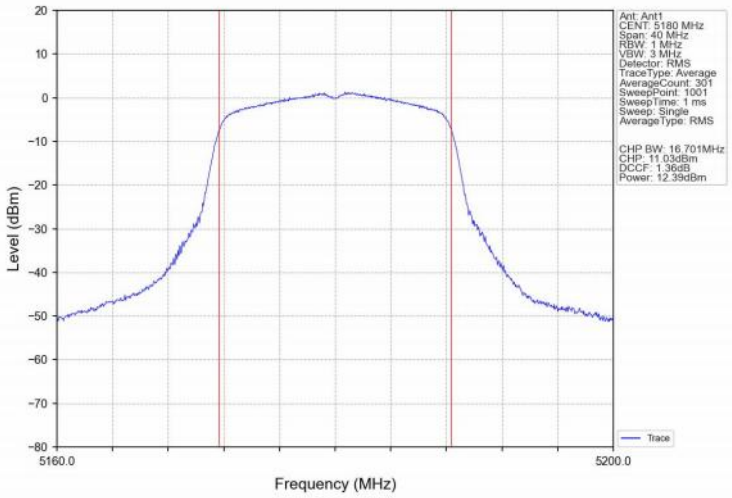
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	12.39	<=23.98	Pass
		5200	12.30	<=23.98	Pass
		5240	12.77	<=23.98	Pass
		5745	14.12	<=30	Pass
		5785	13.79	<=30	Pass
		5825	14.16	<=30	Pass
802.11n (HT20)	SISO	5180	12.24	<=23.98	Pass
		5200	12.26	<=23.98	Pass
		5240	12.77	<=23.98	Pass
		5745	14.30	<=30	Pass
		5785	13.66	<=30	Pass
		5825	13.89	<=30	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 2.00dBi; - Band: 3 Ant1: 2.00dBi;					

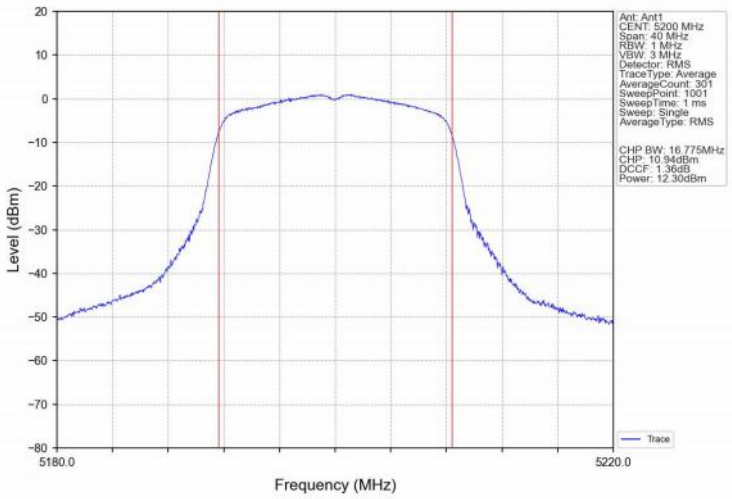
3.2 Test Graph

3.2.1 Power

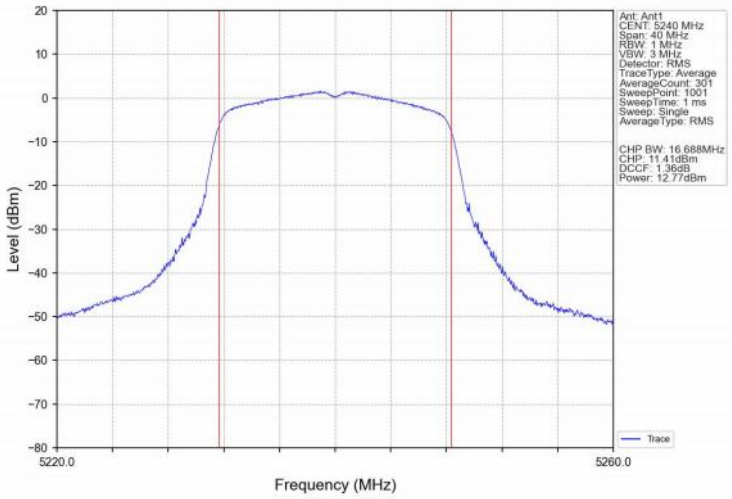
802.11a_LCH_5180MHz_Ant1_NTNV



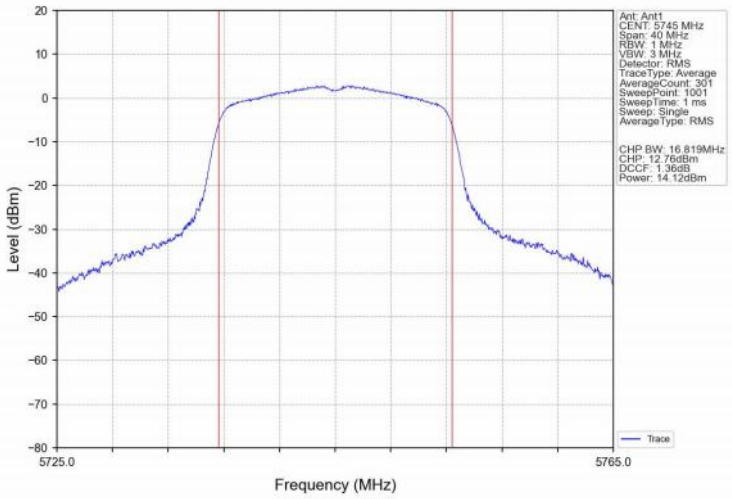
802.11a_MCH_5200MHz_Ant1_NTNV



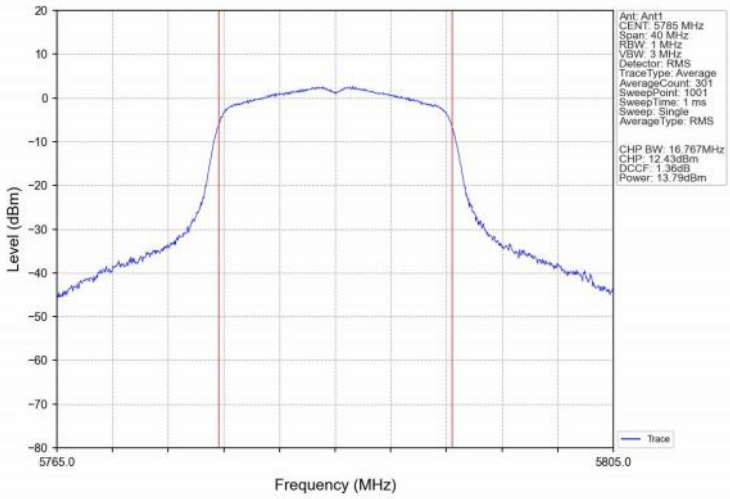
802.11a_HCH_5240MHz_Ant1_NTNV



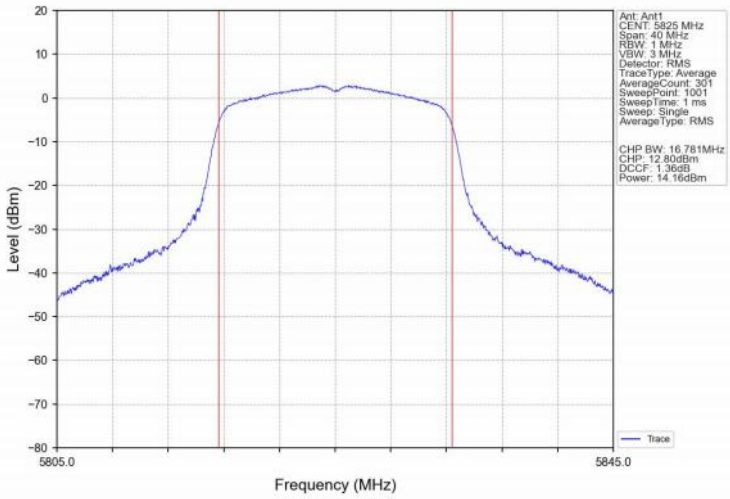
802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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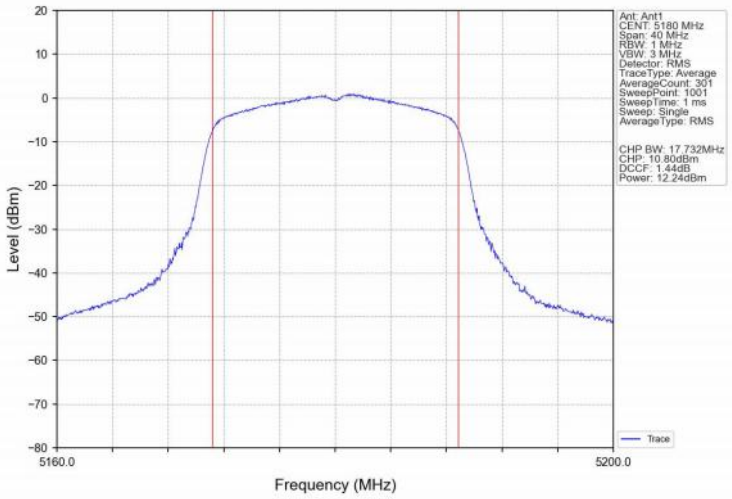
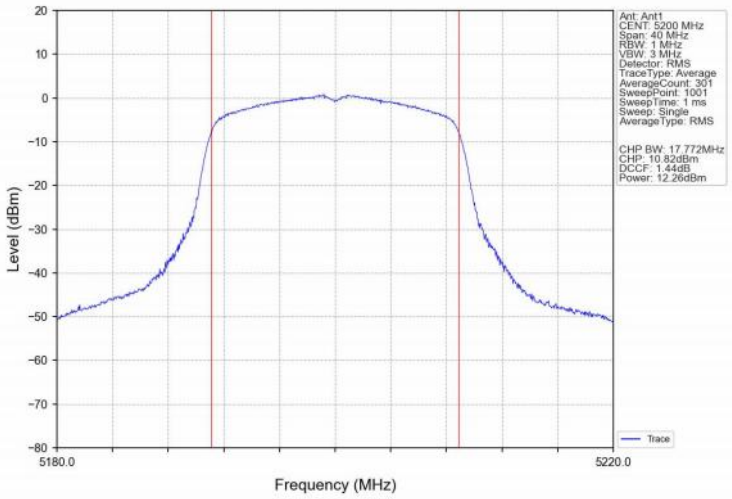
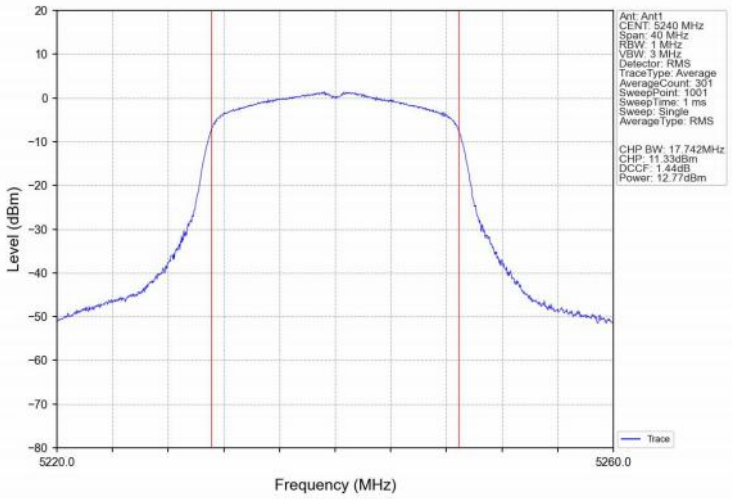
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



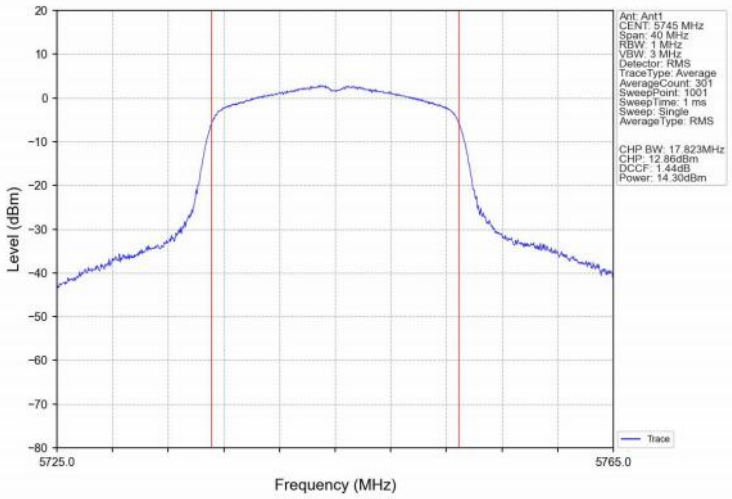
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



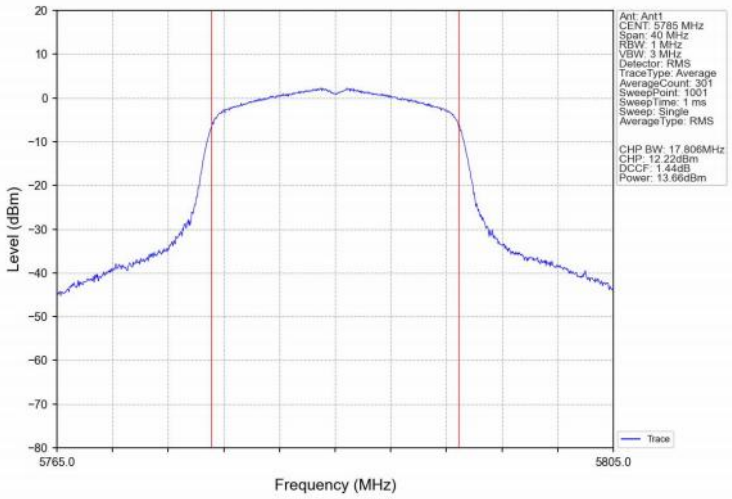
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



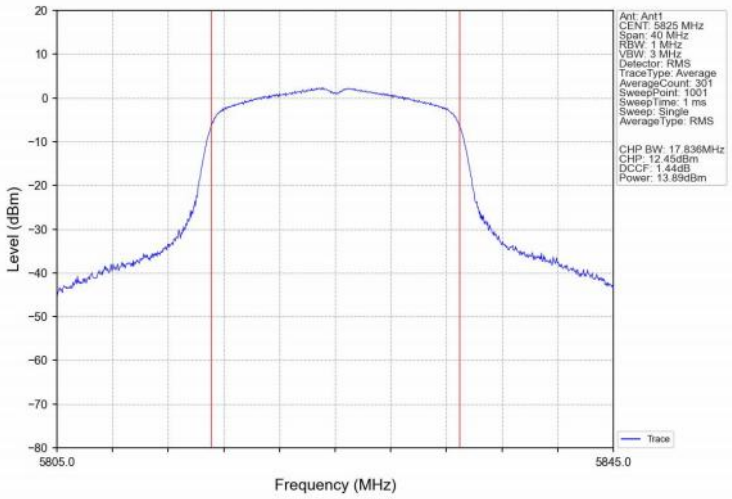
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_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	2.38	<=11	Pass
		5200	2.40	<=11	Pass
		5240	2.82	<=11	Pass
802.11n (HT20)	SISO	5180	2.48	<=11	Pass
		5200	2.18	<=11	Pass
		5240	2.90	<=11	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 2.00dBi; - Band: 3 Ant1: 2.00dBi;					

4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	1.53	<=30	Pass
		5785	1.26	<=30	Pass
		5825	1.47	<=30	Pass
802.11n (HT20)	SISO	5745	1.75	<=30	Pass
		5785	0.96	<=30	Pass
		5825	1.56	<=30	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 2.00dBi; - Band: 3 Ant1: 2.00dBi;					

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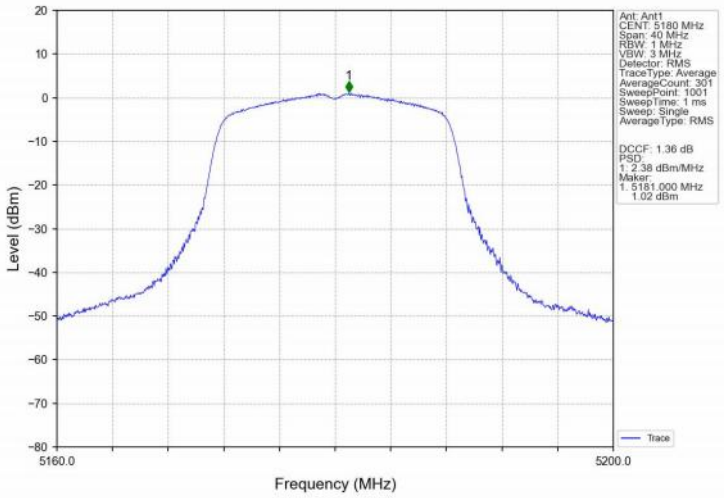
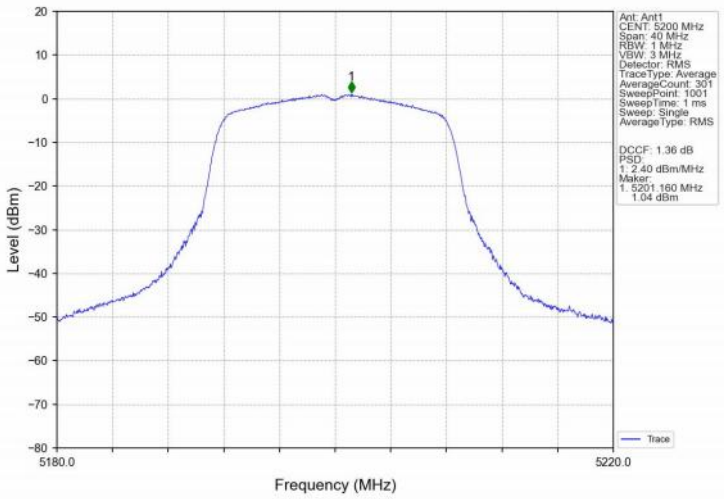
4.2 Test Graph

4.2.1 PSD

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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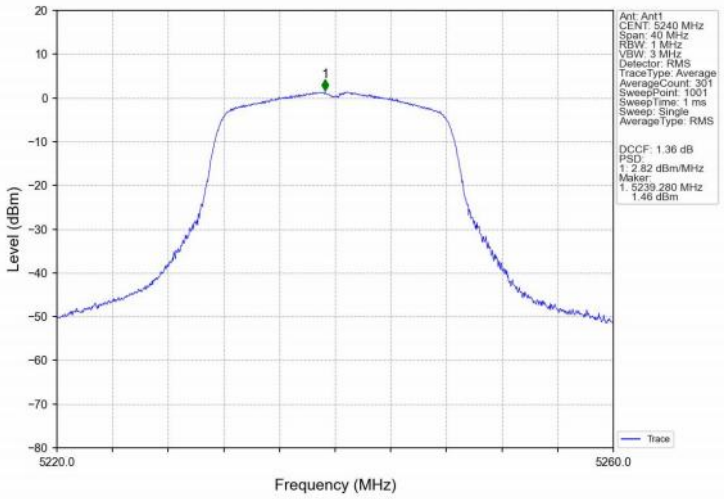
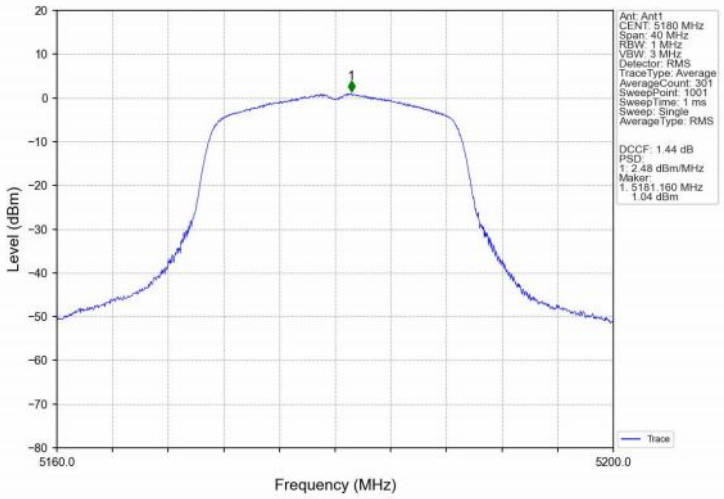
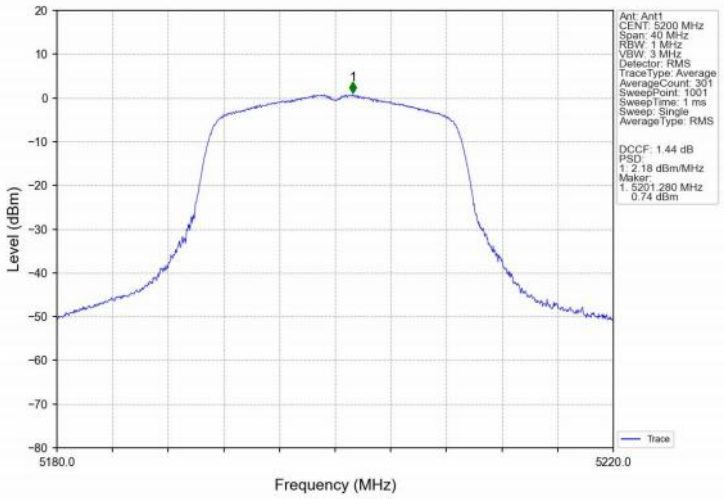
802.11a_HCH_5240MHz_Ant1_NTNV



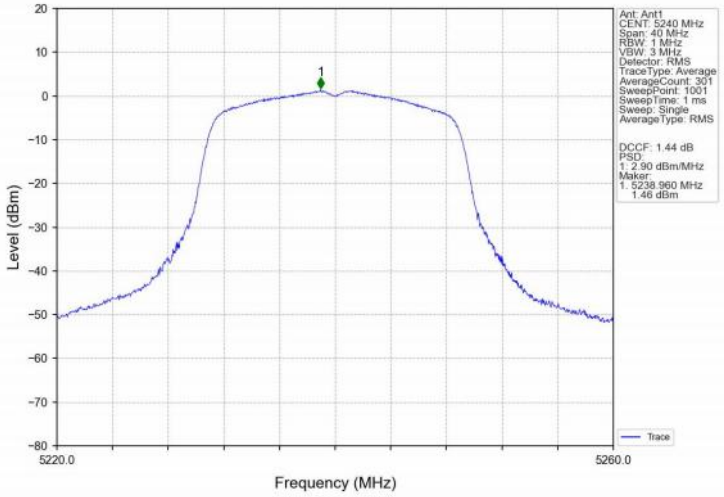
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

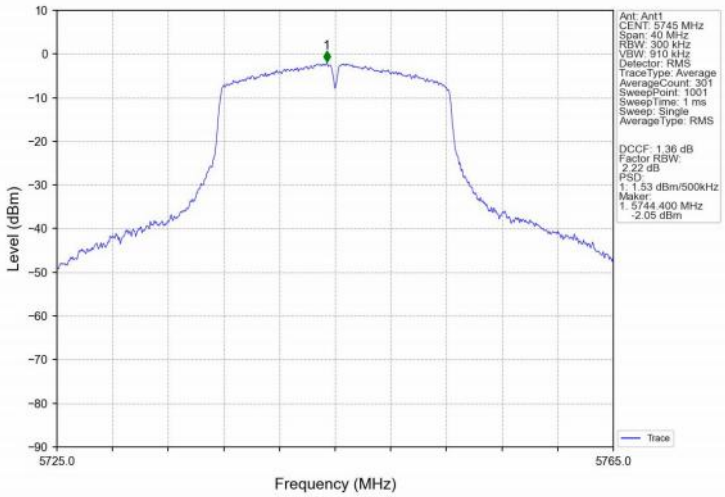


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

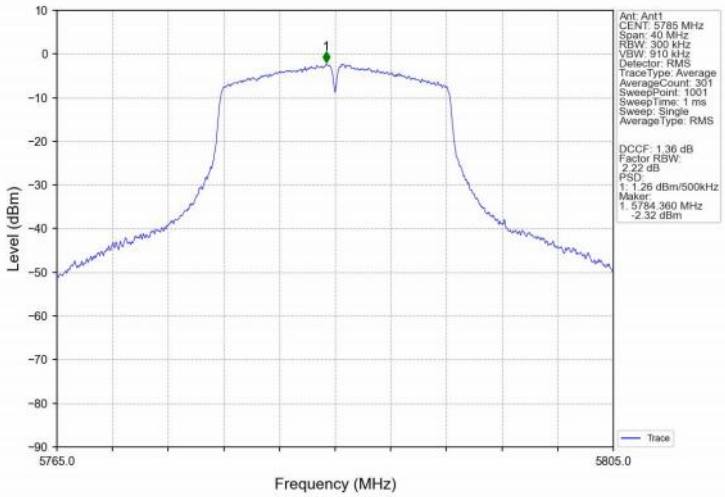


4.2.2 PSD-Band3

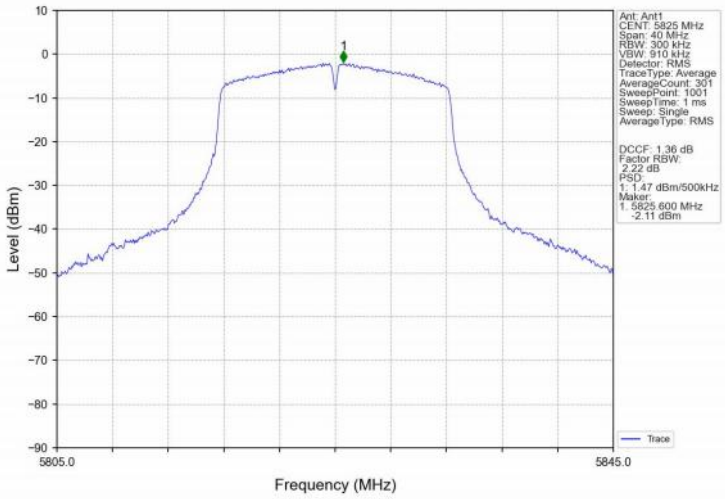
802.11a_LCH_5745MHz_Ant1_NTNV



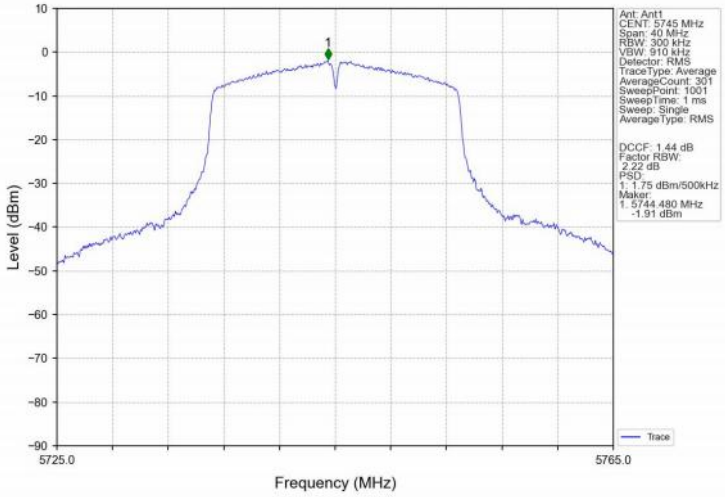
802.11a_MCH_5785MHz_Ant1_NTNV



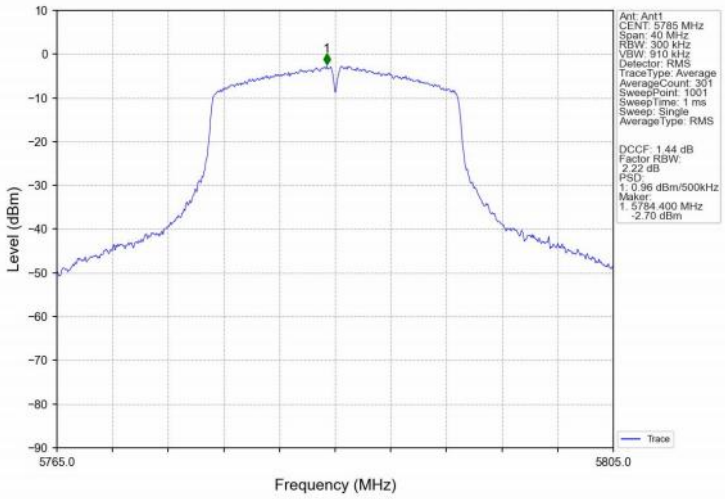
802.11a_HCH_5825MHz_Ant1_NTNV



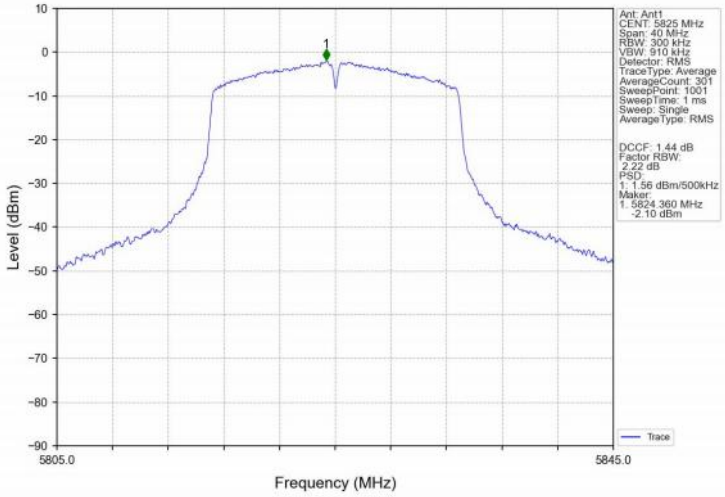
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



5. Unwanted Emissions In Restricted Frequency Bands

5.1 Test Result

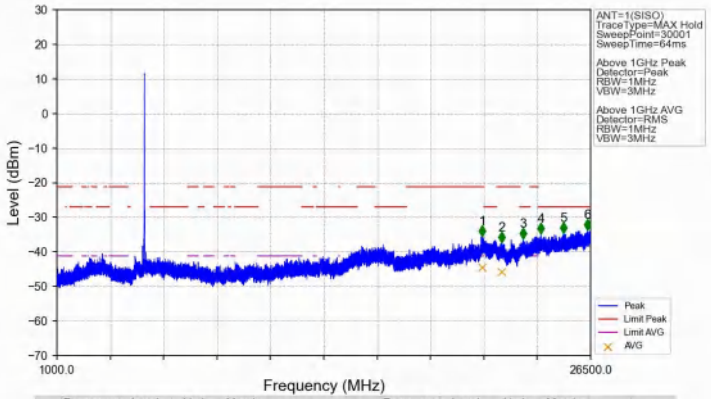
5.1.1 RSE

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
		5745	1	Refer To Test Graph		Pass
		5785	1	Refer To Test Graph		Pass
		5825	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
		5745	1	Refer To Test Graph		Pass
		5785	1	Refer To Test Graph		Pass
		5825	1	Refer To Test Graph		Pass

5.2 Test Graph

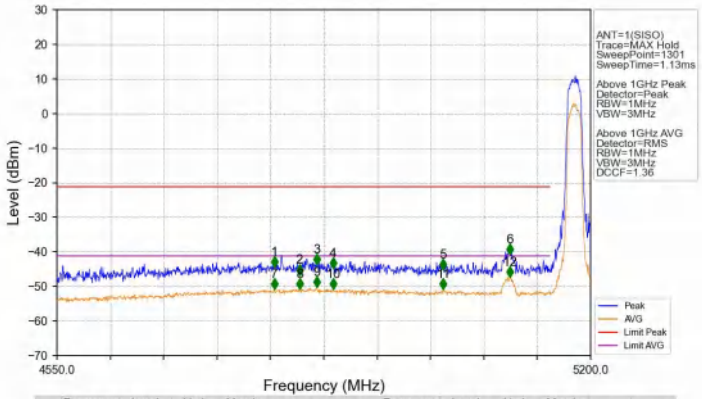
5.2.1 RSE

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	21322.65	-35.53	-21.20	14.33	Pass	Peak	7	21322.65	-44.54	-41.20	3.34	Pass	AVG
2	22248.3	-37.41	-21.20	16.21	Pass	Peak	8	22248.3	-45.82	-41.20	4.62	Pass	AVG
3	23287	-36.29	-27.00	9.29	Pass	Peak	9	23287	/	-27.00	/	/	AVG
4	24127.65	-34.77	-27.00	7.77	Pass	Peak	10	24127.65	/	-27.00	/	/	AVG
5	25208	-34.63	-27.00	7.63	Pass	Peak	11	25208	/	-27.00	/	/	AVG
6	26358.05	-33.75	-27.00	6.75	Pass	Peak	12	26358.05	/	-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	4815.000	-44.52	-21.20	23.32	Pass	Peak	7	4815.000	-50.81	-41.20	9.61	Pass	AVG
2	4845.500	-46.72	-21.20	25.52	Pass	Peak	8	4845.500	-50.76	-41.20	9.56	Pass	AVG
3	4866.500	-43.76	-21.20	22.56	Pass	Peak	9	4866.500	-50.23	-41.20	9.03	Pass	AVG
4	4886.500	-44.86	-21.20	23.66	Pass	Peak	10	4886.500	-50.83	-41.20	9.63	Pass	AVG
5	5020.500	-45.14	-21.20	23.94	Pass	Peak	11	5020.500	-50.80	-41.20	9.60	Pass	AVG
6	5102.000	-40.87	-21.20	19.67	Pass	Peak	12	5102.000	-47.35	-41.20	6.15	Pass	AVG

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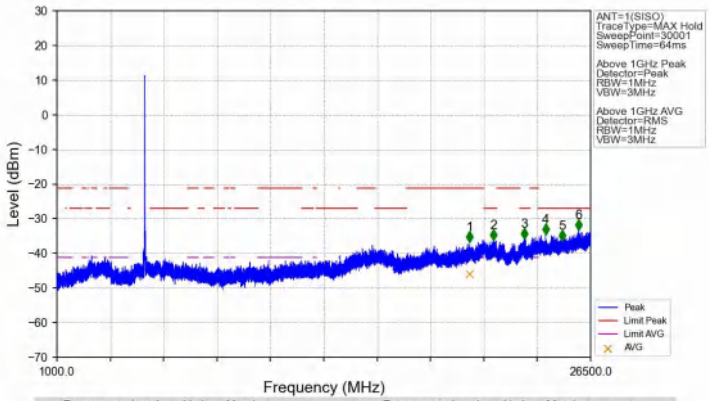
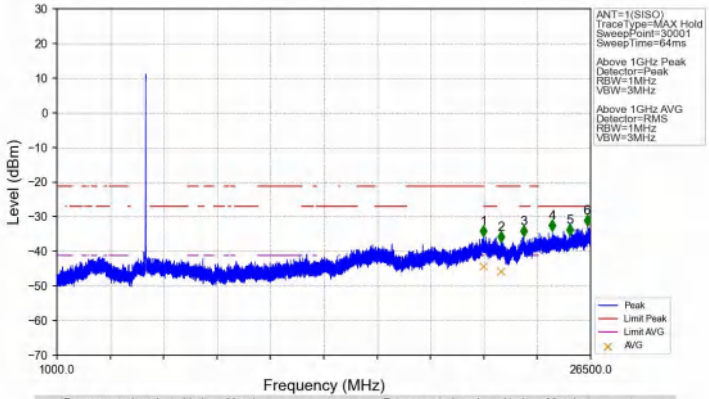
802.11a_MCH_5200MHz_Ant1_NTNV



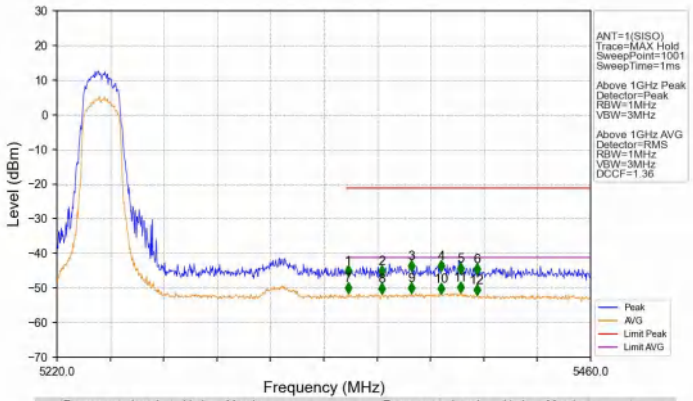
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20727.65	-36.81	-21.20	15.61	Pass	Peak	7	20727.65	-45.99	-41.20	4.79	Pass	AVG
2	21853.9	-36.16	-27.00	9.16	Pass	Peak	8	21853.9	/	-27.00	/	/	AVG
3	23332.9	-35.91	-27.00	8.91	Pass	Peak	9	23332.9	/	-27.00	/	/	AVG
4	24346.1	-34.68	-27.00	7.68	Pass	Peak	10	24346.1	/	-27.00	/	/	AVG
5	25129.8	-36.45	-27.00	9.45	Pass	Peak	11	25129.8	/	-27.00	/	/	AVG
6	25924.55	-33.32	-27.00	6.32	Pass	Peak	12	25924.55	/	-27.00	/	/	AVG

802.11a_HCH_5240MHz_Ant1_NTNV



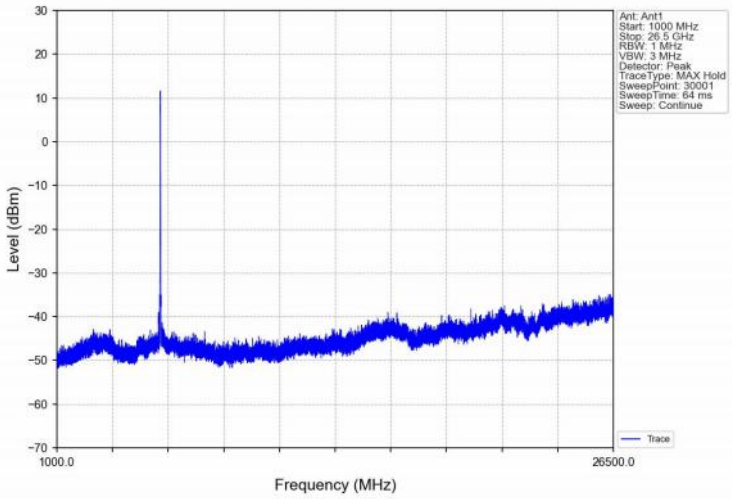
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21388.1	-35.69	-21.20	14.49	Pass	Peak	7	21388.1	-44.33	-41.20	3.13	Pass	AVG
2	22228.75	-37.28	-21.20	16.08	Pass	Peak	8	22228.75	-45.78	-41.20	4.58	Pass	AVG
3	23305.7	-35.67	-27.00	8.67	Pass	Peak	9	23305.7	/	-27.00	/	/	AVG
4	24673.35	-34.14	-27.00	7.14	Pass	Peak	10	24673.35	/	-27.00	/	/	AVG
5	25496.15	-35.29	-27.00	8.29	Pass	Peak	11	25496.15	/	-27.00	/	/	AVG
6	26334.25	-32.55	-27.00	5.55	Pass	Peak	12	26334.25	/	-27.00	/	/	AVG

802.11a_HCH_5240MHz_Ant1_NTNV

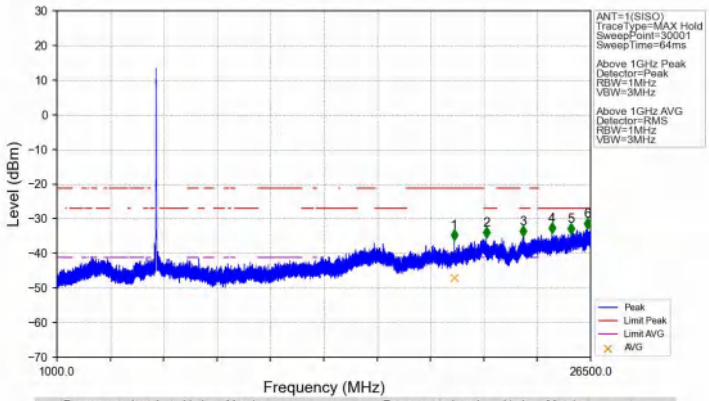


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5351.040	-46.70	-21.20	25.50	Pass	Peak	7	5351.040	-51.59	-41.20	10.39	Pass	AVG
2	5366.160	-46.70	-21.20	25.50	Pass	Peak	8	5366.160	-51.81	-41.20	10.61	Pass	AVG
3	5379.360	-45.12	-21.20	23.92	Pass	Peak	9	5379.360	-51.50	-41.20	10.30	Pass	AVG
4	5392.800	-45.19	-21.20	23.99	Pass	Peak	10	5392.800	-51.70	-41.20	10.50	Pass	AVG
5	5401.440	-45.93	-21.20	24.73	Pass	Peak	11	5401.440	-51.45	-41.20	10.25	Pass	AVG
6	5408.880	-46.01	-21.20	24.81	Pass	Peak	12	5408.880	-52.03	-41.20	10.83	Pass	AVG

802.11a_LCH_5745MHz_Ant1_NTNV

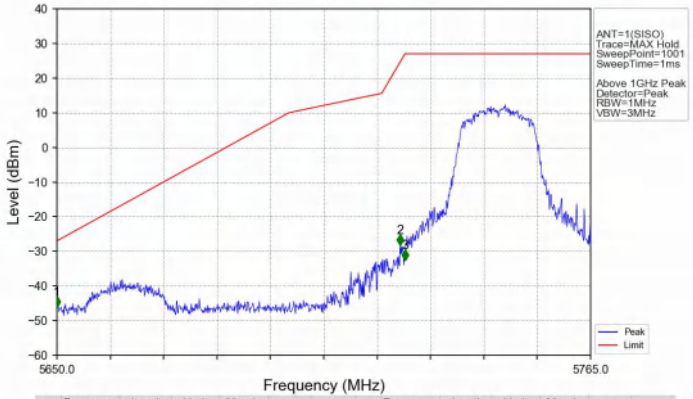


802.11a_LCH_5745MHz_Ant1_NTNV



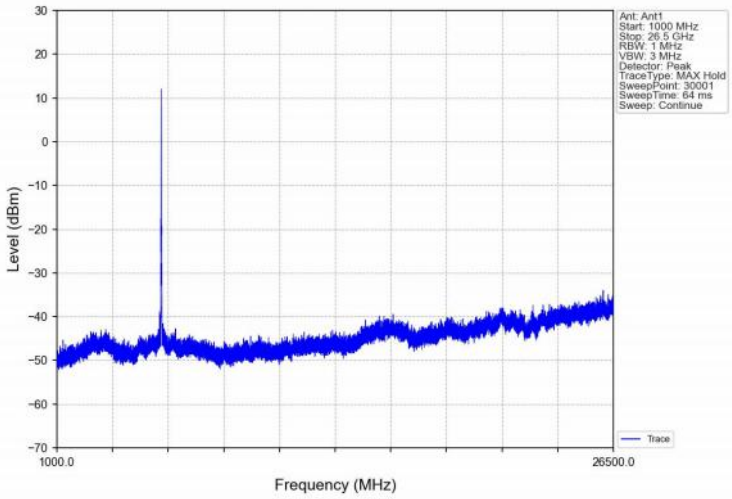
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	19979.65	-36.29	-21.20	15.09	Pass	Peak	7	19979.65	-47.07	-41.20	5.87	Pass	AVG
2	21517.3	-35.60	-27.00	8.60	Pass	Peak	8	21517.3	/	-27.00	/	/	AVG
3	23270.85	-35.14	-27.00	8.14	Pass	Peak	9	23270.85	/	-27.00	/	/	AVG
4	24647.85	-34.20	-27.00	7.20	Pass	Peak	10	24647.85	/	-27.00	/	/	AVG
5	25571.8	-34.39	-27.00	7.39	Pass	Peak	11	25571.8	/	-27.00	/	/	AVG
6	26356.35	-33.02	-27.00	6.02	Pass	Peak	12	26356.35	/	-27.00	/	/	AVG

802.11a_LCH_5745MHz_Ant1_NTNV

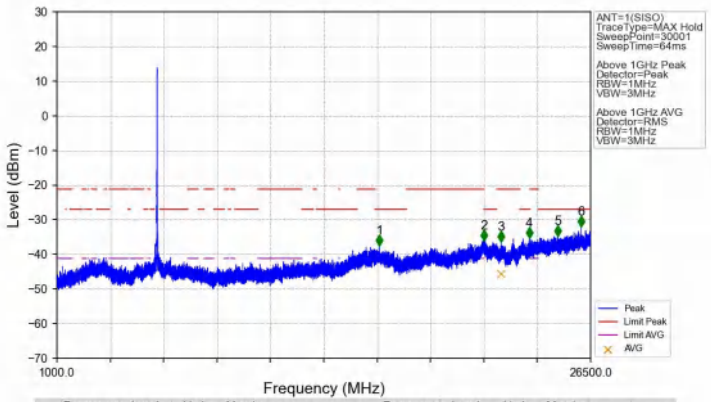


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5650.000	-44.15	-27.00	17.15	Pass	Peak	3	5725.000	-30.76	27.00	57.76	Pass	Peak
2	5723.945	-26.36	24.59	50.95	Pass	Peak							

802.11a_MCH_5785MHz_Ant1_NTNV

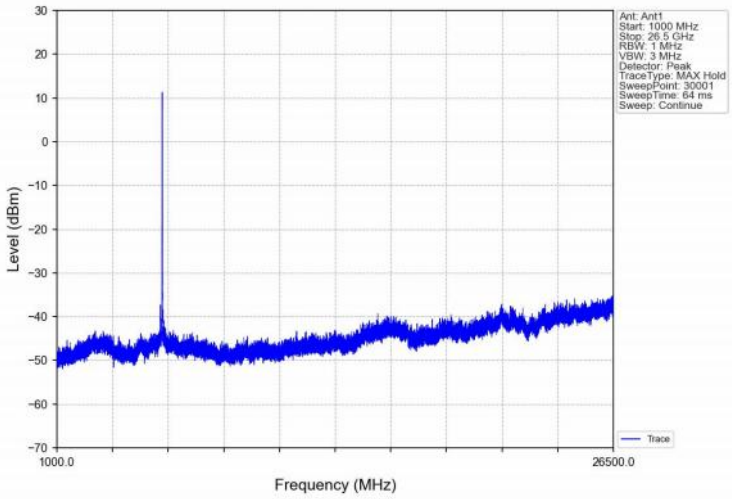


802.11a_MCH_5785MHz_Ant1_NTNV

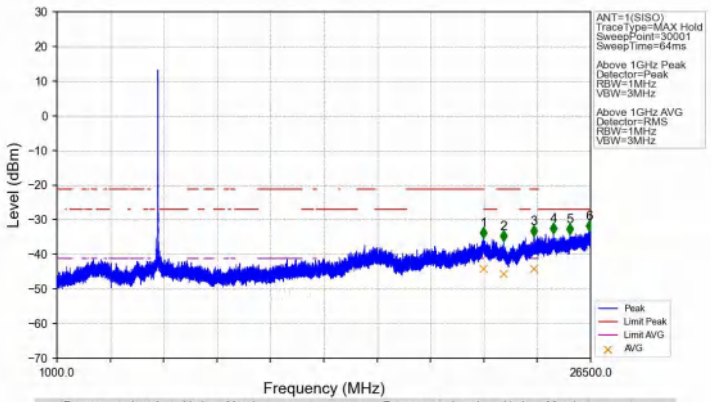


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	16407.1	-37.56	-27.00	10.56	Pass	Peak	7	16407.1	/	-27.00	/	/	AVG
2	21411.05	-36.03	-27.00	9.03	Pass	Peak	8	21411.05	/	-27.00	/	/	AVG
3	22230.45	-36.51	-21.20	15.31	Pass	Peak	9	22230.45	-45.60	-41.20	4.40	Pass	AVG
4	23576	-35.29	-27.00	8.29	Pass	Peak	10	23576	/	-27.00	/	/	AVG
5	24927.5	-34.72	-27.00	7.72	Pass	Peak	11	24927.5	/	-27.00	/	/	AVG
6	26035.9	-32.09	-27.00	5.09	Pass	Peak	12	26035.9	/	-27.00	/	/	AVG

802.11a_HCH_5825MHz_Ant1_NTNV

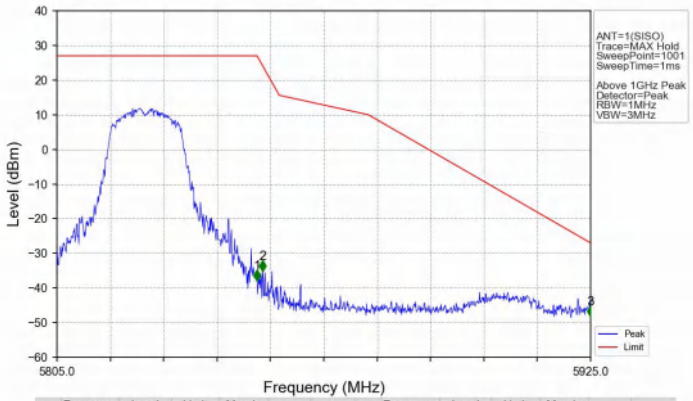


802.11a_HCH_5825MHz_Ant1_NTNV



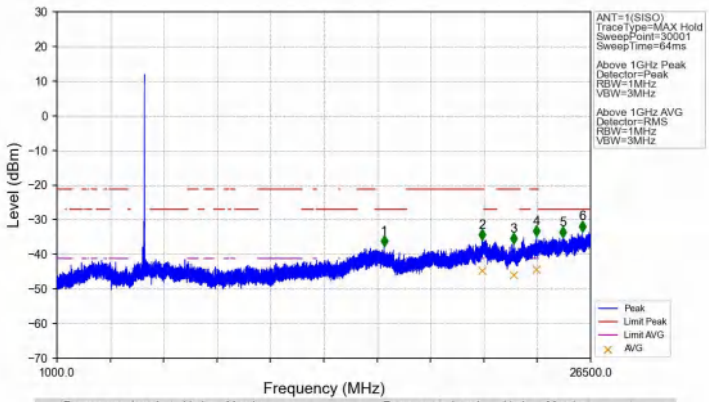
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21384.7	-35.27	-21.20	14.07	Pass	Peak	7	21384.7	-44.05	-41.20	2.85	Pass	AVG
2	22350.3	-36.17	-21.20	14.97	Pass	Peak	8	22350.3	-45.59	-41.20	4.39	Pass	AVG
3	23793.6	-34.82	-21.20	13.62	Pass	Peak	9	23793.6	-44.21	-41.20	3.01	Pass	AVG
4	24726.9	-34.01	-27.00	7.01	Pass	Peak	10	24726.9	/	-27.00	/	/	AVG
5	25512.3	-34.26	-27.00	7.26	Pass	Peak	11	25512.3	/	-27.00	/	/	AVG
6	26448.15	-33.37	-27.00	6.37	Pass	Peak	12	26448.15	/	-27.00	/	/	AVG

802.11a_HCH_5825MHz_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	5850.000	-36.04	27.00	63.04	Pass	Peak	3	5925.000	-46.33	-27.00	19.33	Pass	Peak
2	5851.200	-33.35	24.26	57.61	Pass	Peak							

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	16634.9	-37.63	-27.00	10.63	Pass	Peak	7	16634.9	/	-27.00	/	/	AVG
2	21312.45	-35.90	-21.20	14.70	Pass	Peak	8	21312.45	-44.66	-41.20	3.46	Pass	AVG
3	22820.35	-36.99	-21.20	15.79	Pass	Peak	9	22820.35	-45.95	-41.20	4.75	Pass	AVG
4	23916.85	-34.79	-21.20	13.59	Pass	Peak	10	23916.85	-44.30	-41.20	3.10	Pass	AVG
5	25159.55	-35.12	-27.00	8.12	Pass	Peak	11	25159.55	/	-27.00	/	/	AVG
6	26115.8	-33.42	-27.00	6.42	Pass	Peak	12	26115.8	/	-27.00	/	/	AVG

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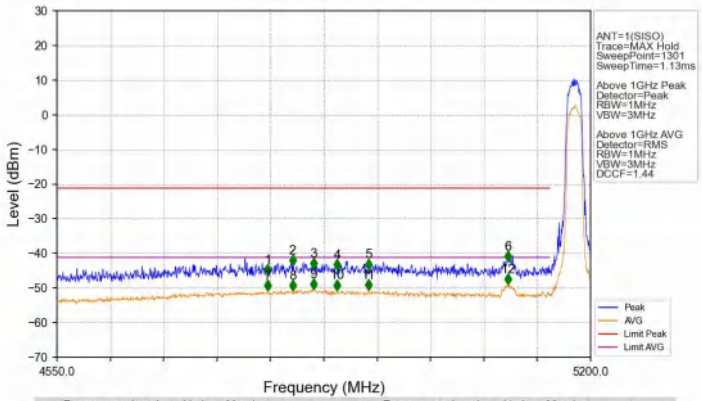
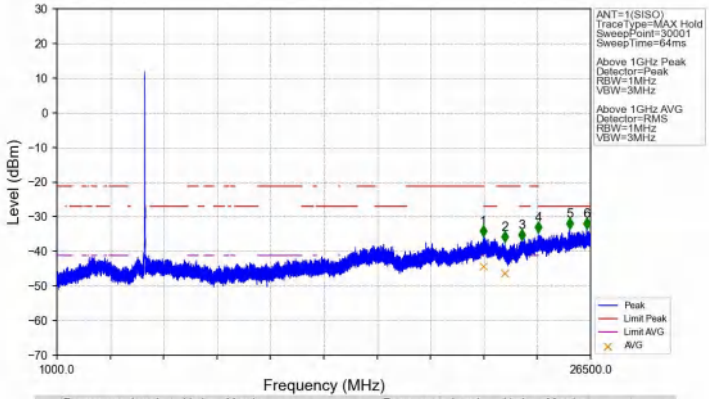
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4807.000	-46.20	-21.20	25.00	Pass	Peak	7	4807.000	-50.81	-41.20	9.61	Pass	AVG
2	4837.000	-43.61	-21.20	22.41	Pass	Peak	8	4837.000	-50.86	-41.20	9.66	Pass	AVG
3	4862.500	-44.47	-21.20	23.27	Pass	Peak	9	4862.500	-50.50	-41.20	9.30	Pass	AVG
4	4891.500	-44.86	-21.20	23.66	Pass	Peak	10	4891.500	-50.73	-41.20	9.53	Pass	AVG
5	4929.500	-44.72	-21.20	23.52	Pass	Peak	11	4929.500	-50.70	-41.20	9.50	Pass	AVG
6	5099.500	-42.48	-21.20	21.28	Pass	Peak	12	5099.500	-49.05	-41.20	7.85	Pass	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	21361.75	-35.78	-21.20	14.58	Pass	Peak	7	21361.75	-44.33	-41.20	3.13	Pass	AVG
2	22412.35	-37.36	-21.20	16.16	Pass	Peak	8	22412.35	-46.23	-41.20	5.03	Pass	AVG
3	23223.25	-36.84	-27.00	9.84	Pass	Peak	9	23223.25	/	-27.00	/	/	AVG
4	24011.2	-34.56	-27.00	7.56	Pass	Peak	10	24011.2	/	-27.00	/	/	AVG
5	25504.65	-33.52	-27.00	6.52	Pass	Peak	11	25504.65	/	-27.00	/	/	AVG
6	26318.1	-33.51	-27.00	6.51	Pass	Peak	12	26318.1	/	-27.00	/	/	AVG

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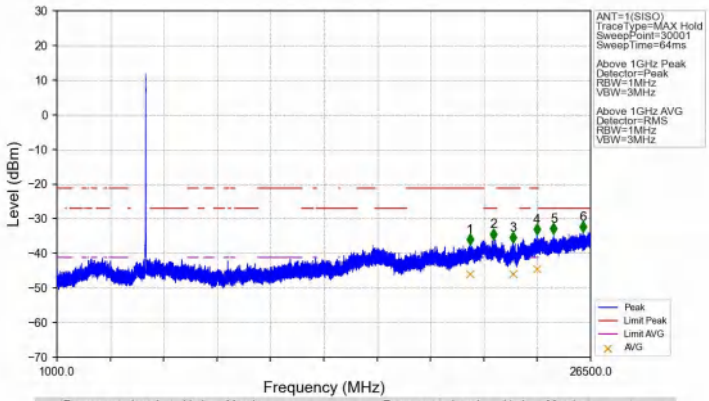
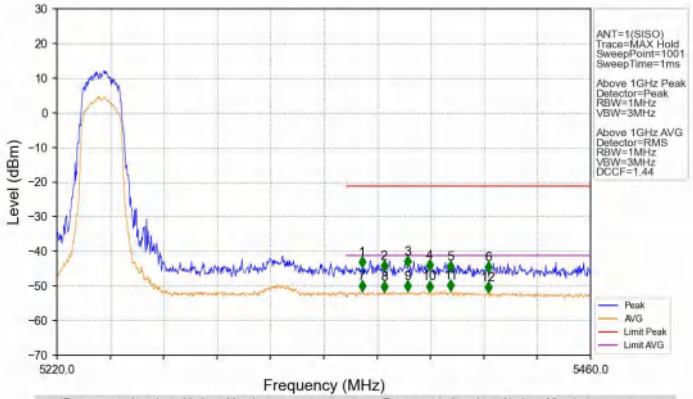
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20728.5	-37.60	-21.20	16.40	Pass	Peak	7	20728.5	-45.92	-41.20	4.72	Pass	AVG
2	21871.75	-35.97	-27.00	8.97	Pass	Peak	8	21871.75	/	-27.00	/	/	AVG
3	22788.05	-36.91	-21.20	15.71	Pass	Peak	9	22788.05	-45.91	-41.20	4.71	Pass	AVG
4	23938.1	-34.68	-21.20	13.48	Pass	Peak	10	23938.1	-44.42	-41.20	3.22	Pass	AVG
5	24735.4	-34.40	-27.00	7.40	Pass	Peak	11	24735.4	/	-27.00	/	/	AVG
6	26130.25	-33.95	-27.00	6.95	Pass	Peak	12	26130.25	/	-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	5357.280	-44.65	-21.20	23.45	Pass	Peak	7	5357.280	-51.57	-41.20	10.37	Pass	AVG
2	5367.120	-45.81	-21.20	24.61	Pass	Peak	8	5367.120	-51.68	-41.20	10.48	Pass	AVG
3	5377.680	-44.53	-21.20	23.33	Pass	Peak	9	5377.680	-51.61	-41.20	10.41	Pass	AVG
4	5387.520	-45.48	-21.20	24.28	Pass	Peak	10	5387.520	-51.64	-41.20	10.44	Pass	AVG
5	5397.120	-45.97	-21.20	24.77	Pass	Peak	11	5397.120	-51.44	-41.20	10.24	Pass	AVG
6	5413.920	-46.06	-21.20	24.86	Pass	Peak	12	5413.920	-51.87	-41.20	10.67	Pass	AVG

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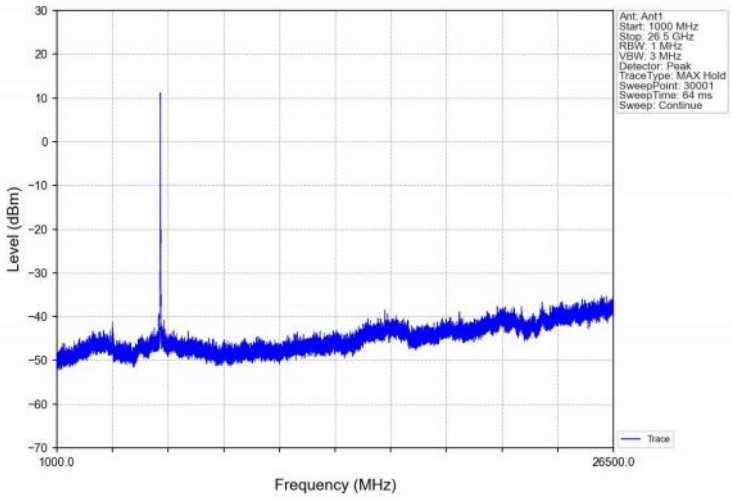
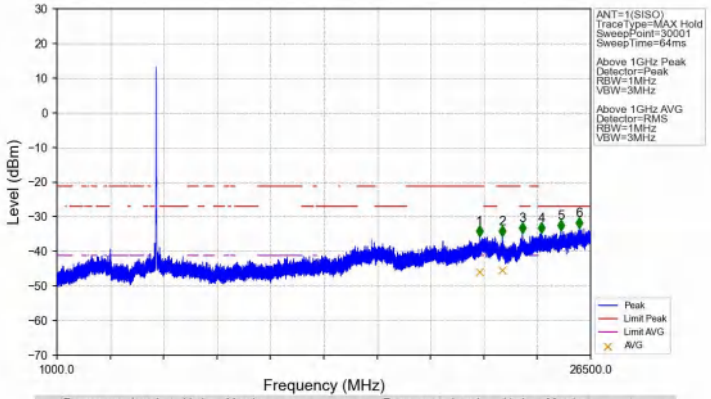
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

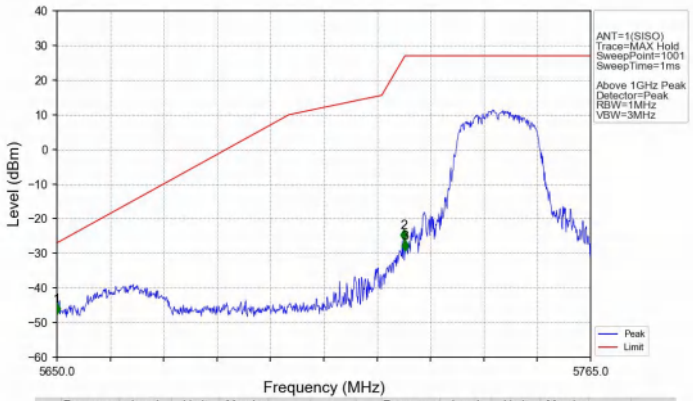


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



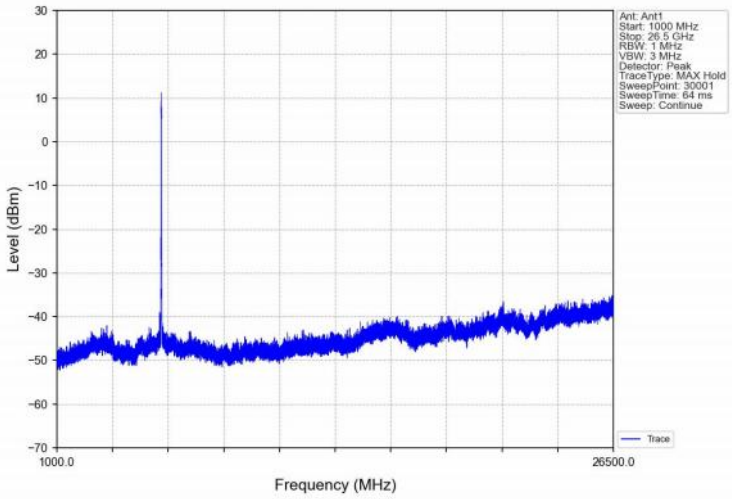
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21182.4	-35.74	-21.20	14.54	Pass	Peak	7	21182.4	-45.92	-41.20	4.72	Pass	AVG
2	22288.25	-35.75	-21.20	14.55	Pass	Peak	8	22288.25	-45.43	-41.20	4.23	Pass	AVG
3	23238.55	-34.85	-27.00	7.85	Pass	Peak	9	23238.55	/	-27.00	/	/	AVG
4	24159.1	-34.73	-27.00	7.73	Pass	Peak	10	24159.1	/	-27.00	/	/	AVG
5	25083.05	-34.06	-27.00	7.06	Pass	Peak	11	25083.05	/	-27.00	/	/	AVG
6	25962.8	-33.26	-27.00	6.26	Pass	Peak	12	25962.8	/	-27.00	/	/	AVG

802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

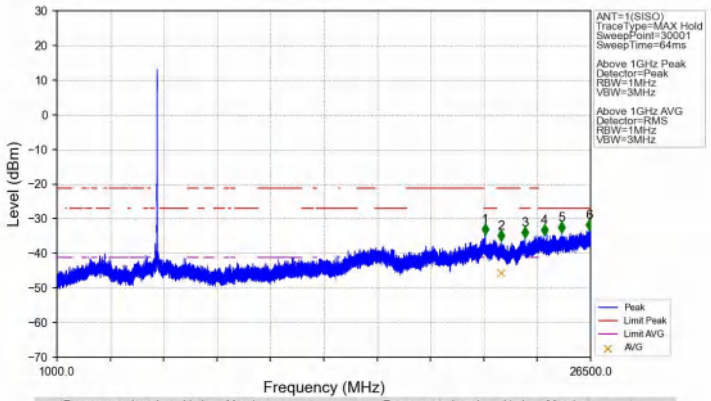


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5650.000	-45.66	-27.00	18.66	Pass	Peak	3	5725.000	-27.39	27.00	54.39	Pass	Peak
2	5724.750	-24.42	26.43	50.85	Pass	Peak							

802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

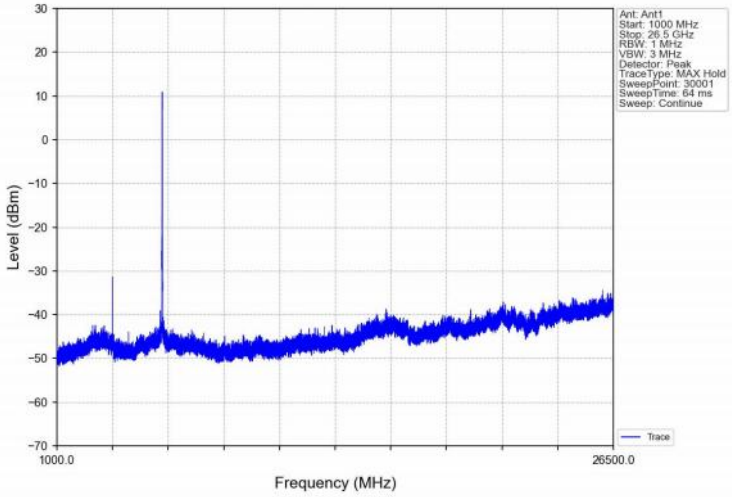


802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

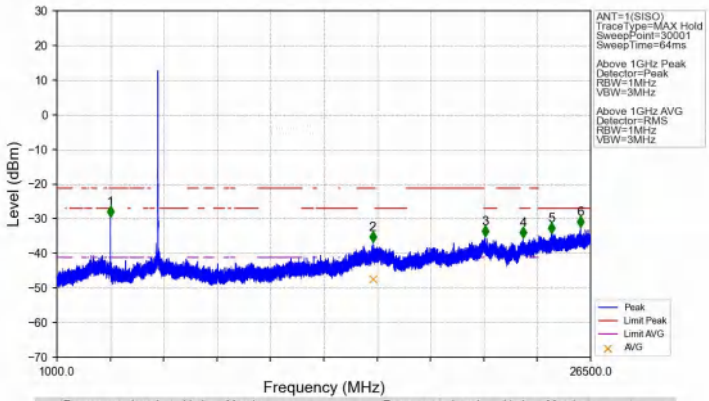


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21463.75	-34.68	-27.00	7.68	Pass	Peak	7	21463.75	/	-27.00	/	/	AVG
2	22229.6	-36.39	-21.20	15.19	Pass	Peak	8	22229.6	-45.57	-41.20	4.37	Pass	AVG
3	23371.15	-35.57	-27.00	8.57	Pass	Peak	9	23371.15	/	-27.00	/	/	AVG
4	24287.45	-34.83	-27.00	7.83	Pass	Peak	10	24287.45	/	-27.00	/	/	AVG
5	25100.9	-34.06	-27.00	7.06	Pass	Peak	11	25100.9	/	-27.00	/	/	AVG
6	26436.25	-33.27	-27.00	6.27	Pass	Peak	12	26436.25	/	-27.00	/	/	AVG

802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

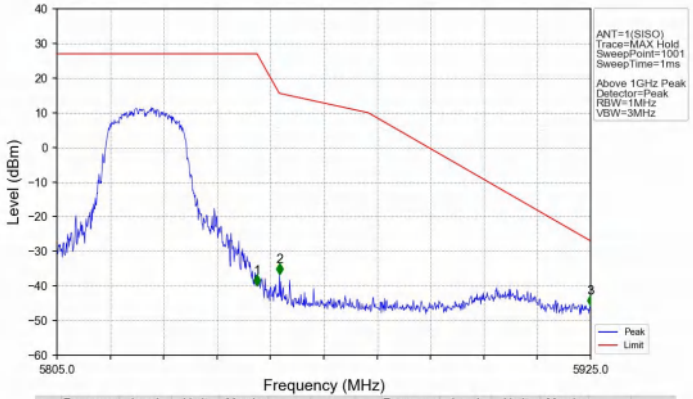


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	3552.55	-29.45	-27.00	2.45	Pass	Peak	7	3552.55	/	-27.00	/	/	AVG
2	16086.65	-36.82	-21.20	15.62	Pass	Peak	8	16086.65	-47.37	-41.20	6.17	Pass	AVG
3	21462.05	-35.18	-27.00	8.18	Pass	Peak	9	21462.05	/	-27.00	/	/	AVG
4	23288.7	-35.44	-27.00	8.44	Pass	Peak	10	23288.7	/	-27.00	/	/	AVG
5	24630.85	-34.19	-27.00	7.19	Pass	Peak	11	24630.85	/	-27.00	/	/	AVG
6	26021.45	-32.49	-27.00	5.49	Pass	Peak	12	26021.45	/	-27.00	/	/	AVG

802.11n(HT20)_HCH_5825MHz_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	5850.000	-37.97	27.00	64.97	Pass	Peak	3	5925.000	-43.78	-27.00	16.78	Pass	Peak
2	5855.040	-34.67	15.59	50.26	Pass	Peak							

6. Frequency Stability

6.1 Test Result

6.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5179.960	5150 to 5250	Pass
				120	5179.960	5150 to 5250	Pass
				138	5179.980	5150 to 5250	Pass
			-30	120	5180.000	5150 to 5250	Pass
			-20	120	5179.980	5150 to 5250	Pass
			-10	120	5180.000	5150 to 5250	Pass
			0	120	5179.960	5150 to 5250	Pass
			10	120	5179.960	5150 to 5250	Pass
			30	120	5179.980	5150 to 5250	Pass
			40	120	5180.000	5150 to 5250	Pass
			50	120	5180.000	5150 to 5250	Pass
		5200	20	102	5199.980	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				138	5199.980	5150 to 5250	Pass
			-30	120	5199.980	5150 to 5250	Pass
			-20	120	5199.960	5150 to 5250	Pass
			-10	120	5199.980	5150 to 5250	Pass
			0	120	5199.960	5150 to 5250	Pass
			10	120	5200.000	5150 to 5250	Pass
			30	120	5199.980	5150 to 5250	Pass
			40	120	5199.980	5150 to 5250	Pass
			50	120	5199.960	5150 to 5250	Pass
		5240	20	102	5239.980	5150 to 5250	Pass
				120	5239.960	5150 to 5250	Pass
				138	5239.920	5150 to 5250	Pass
			-30	120	5239.960	5150 to 5250	Pass
			-20	120	5239.960	5150 to 5250	Pass
			-10	120	5239.960	5150 to 5250	Pass
			0	120	5239.980	5150 to 5250	Pass
			10	120	5239.960	5150 to 5250	Pass
			30	120	5239.960	5150 to 5250	Pass
			40	120	5239.960	5150 to 5250	Pass
			50	120	5239.980	5150 to 5250	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5745.000	5725 to 5850	Pass
				138	5744.980	5725 to 5850	Pass
			-30	120	5745.000	5725 to 5850	Pass
			-20	120	5745.000	5725 to 5850	Pass
			-10	120	5745.000	5725 to 5850	Pass
			0	120	5744.980	5725 to 5850	Pass
			10	120	5744.960	5725 to 5850	Pass
			30	120	5744.980	5725 to 5850	Pass
			40	120	5745.000	5725 to 5850	Pass
			50	120	5745.000	5725 to 5850	Pass
		5785	20	102	5785.000	5725 to 5850	Pass
				120	5785.000	5725 to 5850	Pass
				138	5785.020	5725 to 5850	Pass

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			-30	120	5784.980	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass
			-10	120	5785.000	5725 to 5850	Pass
			0	120	5785.000	5725 to 5850	Pass
			10	120	5784.980	5725 to 5850	Pass
			30	120	5785.000	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5785.020	5725 to 5850	Pass
		5825	20	102	5824.980	5725 to 5850	Pass
				120	5825.020	5725 to 5850	Pass
				138	5825.000	5725 to 5850	Pass
			-30	120	5824.980	5725 to 5850	Pass
			-20	120	5825.000	5725 to 5850	Pass
			-10	120	5825.000	5725 to 5850	Pass
			0	120	5825.020	5725 to 5850	Pass
			10	120	5825.000	5725 to 5850	Pass
			30	120	5825.000	5725 to 5850	Pass
			40	120	5825.000	5725 to 5850	Pass
			50	120	5825.000	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	102	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5180.020	5150 to 5250	Pass
			-10	120	5180.000	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
			10	120	5180.020	5150 to 5250	Pass
			30	120	5180.020	5150 to 5250	Pass
			40	120	5180.020	5150 to 5250	Pass
			50	120	5180.020	5150 to 5250	Pass
		5200	20	102	5200.000	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.000	5150 to 5250	Pass
			-20	120	5200.000	5150 to 5250	Pass
			-10	120	5200.020	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5199.980	5150 to 5250	Pass
			30	120	5200.000	5150 to 5250	Pass
			40	120	5200.000	5150 to 5250	Pass
			50	120	5200.020	5150 to 5250	Pass
		5240	20	102	5239.980	5150 to 5250	Pass
				120	5240.000	5150 to 5250	Pass
				138	5239.980	5150 to 5250	Pass
			-30	120	5240.000	5150 to 5250	Pass
			-20	120	5240.000	5150 to 5250	Pass
			-10	120	5239.980	5150 to 5250	Pass
			0	120	5240.000	5150 to 5250	Pass
			10	120	5239.980	5150 to 5250	Pass
			30	120	5239.980	5150 to 5250	Pass
			40	120	5239.980	5150 to 5250	Pass
			50	120	5240.000	5150 to 5250	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5745.000	5725 to 5850	Pass
				138	5744.980	5725 to 5850	Pass
			-30	120	5745.000	5725 to 5850	Pass
			-20	120	5745.000	5725 to 5850	Pass
			-10	120	5745.000	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5744.980	5725 to 5850	Pass

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			30	120	5745.000	5725 to 5850	Pass
			40	120	5744.980	5725 to 5850	Pass
			50	120	5745.020	5725 to 5850	Pass
		5785	20	102	5785.020	5725 to 5850	Pass
				120	5785.020	5725 to 5850	Pass
				138	5784.980	5725 to 5850	Pass
			-30	120	5785.020	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass
			-10	120	5785.000	5725 to 5850	Pass
			0	120	5785.000	5725 to 5850	Pass
			10	120	5785.020	5725 to 5850	Pass
			30	120	5785.020	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5785.020	5725 to 5850	Pass
		5825	20	102	5825.000	5725 to 5850	Pass
				120	5825.020	5725 to 5850	Pass
				138	5825.000	5725 to 5850	Pass
			-30	120	5825.000	5725 to 5850	Pass
			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5825.000	5725 to 5850	Pass
			0	120	5825.040	5725 to 5850	Pass
			10	120	5825.000	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
			40	120	5825.060	5725 to 5850	Pass
			50	120	5825.060	5725 to 5850	Pass

7. Form731

7.1 Test Result

7.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5180	5240	0.0189	12.77
5745	5825	0.0269	14.30