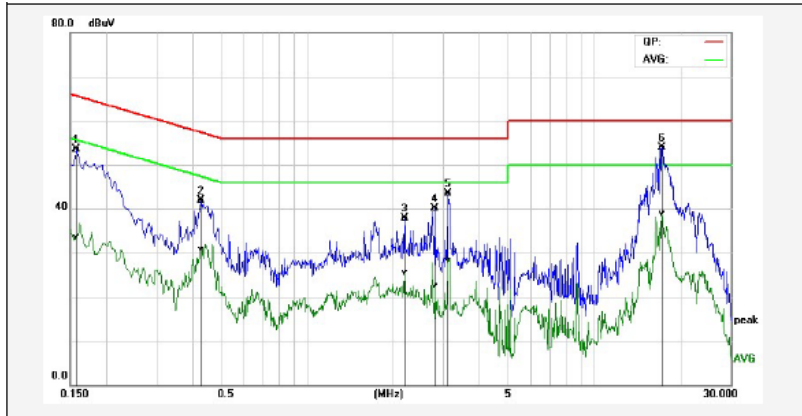
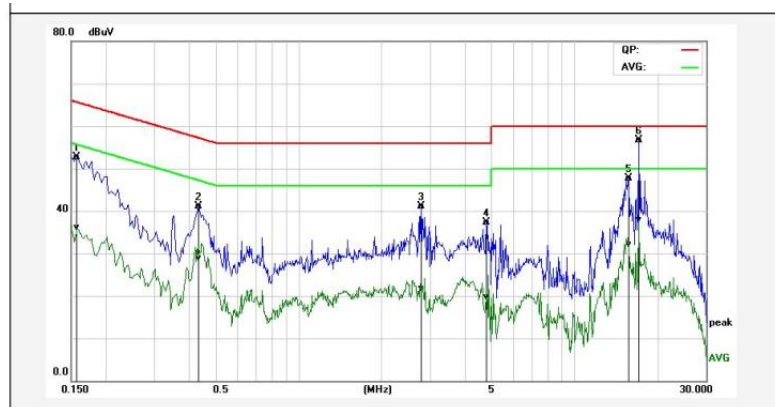


Appendix A: Test Results of DTS device

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Appendix A.1 Test Results of Conducted Emission on AC Mains

Note: All modes have been tested, and the report only reflects the worst mode.

Test Mode :	Mode 13	Test Voltage :	DC 3.3V																																																																																																												
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 <table><tr><th>No.</th><th>Frequency</th><th>QuasiPeak</th><th>Average</th><th>Correction</th><th>QuasiPeak</th><th>Average</th><th>QuasiPeak</th><th>Average</th><th>QuasiPeak</th><th>Average</th><th>Remark</th></tr><tr><td></td><td>(MHz)</td><td>reading</td><td>reading</td><td>factor</td><td>result</td><td>result</td><td>limit</td><td>limit</td><td>margin</td><td>margin</td><td></td></tr><tr><td></td><td></td><td>(dBuV)</td><td>(dBuV)</td><td>(dB)</td><td>(dBuV)</td><td>(dBuV)</td><td>(dBuV)</td><td>(dBuV)</td><td>(dB)</td><td>(dB)</td><td></td></tr><tr><td>1P</td><td>0.1580</td><td>43.99</td><td>24.01</td><td>9.50</td><td>53.49</td><td>33.51</td><td>65.56</td><td>55.57</td><td>-12.07</td><td>-22.06</td><td>Pass</td></tr><tr><td>2P</td><td>0.4300</td><td>32.48</td><td>21.28</td><td>9.50</td><td>41.98</td><td>30.78</td><td>57.25</td><td>47.25</td><td>-15.27</td><td>-16.47</td><td>Pass</td></tr><tr><td>3P</td><td>2.2100</td><td>28.62</td><td>16.21</td><td>9.28</td><td>37.90</td><td>25.49</td><td>56.00</td><td>46.00</td><td>-18.10</td><td>-20.51</td><td>Pass</td></tr><tr><td>4P</td><td>2.8179</td><td>30.82</td><td>13.30</td><td>9.22</td><td>40.04</td><td>22.52</td><td>56.00</td><td>46.00</td><td>-15.96</td><td>-23.48</td><td>Pass</td></tr><tr><td>5P</td><td>3.1220</td><td>34.41</td><td>19.21</td><td>9.19</td><td>43.60</td><td>28.40</td><td>56.00</td><td>46.00</td><td>-12.40</td><td>-17.60</td><td>Pass</td></tr><tr><td>6*</td><td>17.2099</td><td>44.51</td><td>29.53</td><td>9.44</td><td>53.95</td><td>38.97</td><td>60.00</td><td>50.00</td><td>-6.05</td><td>-11.03</td><td>Pass</td></tr></table>				No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark		(MHz)	reading	reading	factor	result	result	limit	limit	margin	margin				(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)		1P	0.1580	43.99	24.01	9.50	53.49	33.51	65.56	55.57	-12.07	-22.06	Pass	2P	0.4300	32.48	21.28	9.50	41.98	30.78	57.25	47.25	-15.27	-16.47	Pass	3P	2.2100	28.62	16.21	9.28	37.90	25.49	56.00	46.00	-18.10	-20.51	Pass	4P	2.8179	30.82	13.30	9.22	40.04	22.52	56.00	46.00	-15.96	-23.48	Pass	5P	3.1220	34.41	19.21	9.19	43.60	28.40	56.00	46.00	-12.40	-17.60	Pass	6*	17.2099	44.51	29.53	9.44	53.95	38.97	60.00	50.00	-6.05	-11.03	Pass
No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark																																																																																																				
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3P	2.2100	28.62	16.21	9.28	37.90	25.49	56.00	46.00	-18.10	-20.51	Pass																																																																																																				
4P	2.8179	30.82	13.30	9.22	40.04	22.52	56.00	46.00	-15.96	-23.48	Pass																																																																																																				
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No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark																																																																																																				
	(MHz)	reading	reading	factor	result	result	limit	limit	margin	margin																																																																																																					
		(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)																																																																																																					
1P	0.1580	43.30	26.69	9.40	52.70	36.09	65.56	55.57	-12.86	-19.48	Pass																																																																																																				
2P	0.4340	31.72	19.45	9.40	41.12	28.85	57.18	47.18	-16.06	-18.33	Pass																																																																																																				
3P	2.7940	32.00	12.54	9.12	41.12	21.66	56.00	46.00	-14.88	-24.34	Pass																																																																																																				
4P	4.7980	28.28	10.66	9.00	37.28	19.66	56.00	46.00	-18.72	-26.34	Pass																																																																																																				
5P	15.7700	38.63	22.94	9.12	47.75	32.06	60.00	50.00	-12.25	-17.94	Pass																																																																																																				
6*	17.1700	47.49	28.81	9.14	56.63	37.95	60.00	50.00	-3.37	-12.05	Pass																																																																																																				

Correction Factor = insertion loss of LISN + cable loss;

Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit

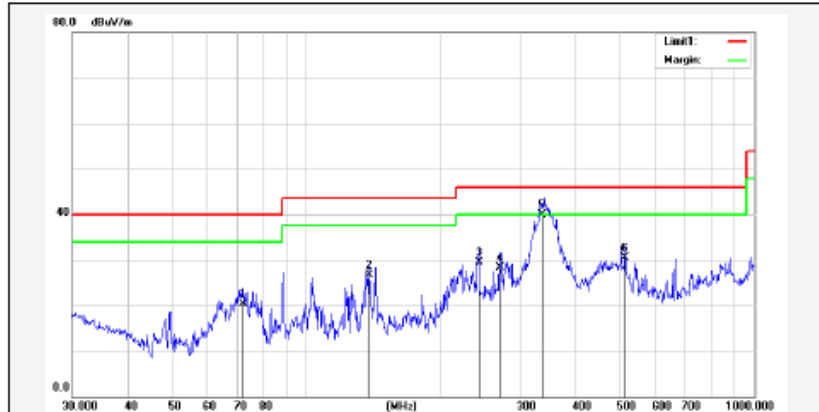
Appendix A.2 Test Results of Radiated Spurious Emission

Below 1GHz:

All modes have been tested, and the report only reflects the worst mode.

Test Mode: Mode 5

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	72.0841	38.96	-18.68	20.28	40.00	-19.72			QP
2	137.9028	39.15	-12.44	26.71	43.50	-16.79			QP
3	242.5252	42.98	-13.53	29.45	46.00	-16.55			QP
4	270.3747	40.35	-11.98	28.37	46.00	-17.63			QP
5*	335.9284	50.26	-10.37	39.89	46.00	-6.11			QP
6	513.6331	36.11	-5.69	30.42	46.00	-15.58			QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	39.8541	35.72	-12.54	23.18	40.00	-16.82			QP
2	85.8983	47.44	-19.09	28.35	40.00	-11.65			QP
3	135.9822	39.21	-12.37	26.84	43.50	-16.66			QP
4	165.4866	40.13	-13.38	26.75	43.50	-16.75			QP
5*	337.2155	46.67	-10.35	36.32	46.00	-9.68			QP
6	570.6100	38.94	-4.99	33.95	46.00	-12.05			QP

Correction Factor = antenna factor + cable loss – amplifier gain;

Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit.

Above 1GHz:

Note: All models were tested, and only the worst model(802.11b, ANT 1) were reported in the report.

802.11 b-Low (worst mode) Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5998	57.49	-10.12	47.37	74	-26.63	peak
2	5998	48.23	-10.12	38.11	54	-15.89	AVG
3	7562	55.47	-7.22	48.25	74	-25.75	peak
4	7562	47.3	-7.22	40.08	54	-13.92	AVG
5	11132	55.07	-2.48	52.59	74	-21.41	peak
6	11132	45.67	-2.48	43.19	54	-10.81	AVG
7	13682	54.19	1.40	55.59	74	-18.41	peak
8	13682	44.47	1.40	45.87	54	-8.13	AVG
9	15212	53.17	6.63	59.8	74	-14.2	peak
10	15212	40.89	6.63	47.52	54	-6.48	AVG
11	18000	40.68	10.17	50.85	54	-3.15	AVG
12	18000	53.56	10.19	63.75	74	-10.25	peak

802.11 b-Low (worst mode) Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6916	58.42	-8.80	49.62	74	-24.38	peak
2	6916	48.14	-8.80	39.34	54	-14.66	AVG
3	7562	56.52	-7.22	49.3	74	-24.7	peak
4	7562	49.98	-7.22	42.76	54	-11.24	AVG
5	11404	55.14	-1.87	53.27	74	-20.73	peak
6	11404	46.5	-1.87	44.63	54	-9.37	AVG
7	13070	55.43	-0.16	55.27	74	-18.73	peak
8	13070	47.08	-0.16	46.92	54	-7.08	AVG
9	15756	54.25	6.55	60.8	74	-13.2	peak
10	15756	41.52	6.55	48.07	54	-5.93	AVG
11	17898	41.06	9.52	50.58	54	-3.42	AVG
12	17898	53.38	9.59	62.97	74	-11.03	peak

802.11 b-Middle (worst mode) Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4876	59.51	-13.00	46.51	74	-27.49	peak
2	4876	52.81	-13.00	39.81	54	-14.19	AVG
3	7596	56.39	-7.26	49.13	74	-24.87	peak
4	7596	50.23	-7.26	42.97	54	-11.03	AVG
5	11404	55.13	-1.87	53.26	74	-20.74	peak
6	11404	46.71	-1.87	44.84	54	-9.16	AVG
7	15484	54.22	6.39	60.61	74	-13.39	peak
8	15484	39.63	6.39	46.02	54	-7.98	AVG
9	16810	55.7	7.62	63.32	74	-10.68	peak
10	16810	40.03	7.62	47.65	54	-6.35	AVG
11	17864	41.64	9.30	50.94	54	-3.06	AVG
12	17864	55.2	9.35	64.55	74	-9.45	peak

802.11 b-Middle (worst mode) Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5998	57.2	-10.12	47.08	74	-26.92	peak
2	5998	49.89	-10.12	39.77	54	-14.23	AVG
3	7562	55.81	-7.22	48.59	74	-25.41	peak
4	7562	49.17	-7.22	41.95	54	-12.05	AVG
5	11336	54.45	-2.04	52.41	74	-21.59	peak
6	11336	46.13	-2.04	44.09	54	-9.91	AVG
7	14464	54.63	3.35	57.98	74	-16.02	peak
8	14464	43.14	3.35	46.49	54	-7.51	AVG
9	15824	53.55	6.65	60.2	74	-13.8	peak
10	15824	42.33	6.65	48.98	54	-5.02	AVG
11	17932	52.8	9.79	62.59	74	-11.41	peak
12	17937.549	40.24	9.82	50.06	54	-3.94	AVG

802.11 b-High (worst mode) Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6100	56.19	-10.06	46.13	74	-27.87	peak
2	6100	49.99	-10.06	39.93	54	-14.07	AVG
3	8208	56.45	-7.62	48.83	74	-25.17	peak
4	8208	50.29	-7.62	42.67	54	-11.33	AVG
5	11404	55.03	-1.87	53.16	74	-20.84	peak
6	11404	47.19	-1.87	45.32	54	-8.68	AVG
7	13036	54.95	-0.29	54.66	74	-19.34	peak
8	13036	46.54	-0.29	46.25	54	-7.75	AVG
9	15280	53.45	6.75	60.2	74	-13.8	peak
10	15280	41.64	6.75	48.39	54	-5.61	AVG
11	18000	40.79	10.18	50.97	54	-3.03	AVG
12	18000	52.42	10.19	62.61	74	-11.39	peak

802.11 b-High (worst mode) Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4910	59.93	-12.91	47.02	74	-26.98	peak
2	4910	51.22	-12.91	38.31	54	-15.69	AVG
3	6814	57.45	-8.86	48.59	74	-25.41	peak
4	6814	51.09	-8.86	42.23	54	-11.77	AVG
5	10112	55.35	-4.19	51.16	74	-22.84	peak
6	10112	49.08	-4.19	44.89	54	-9.11	AVG
7	11098	55.75	-2.54	53.21	74	-20.79	peak
8	11098	47.73	-2.54	45.19	54	-8.81	AVG
9	15484	54.85	6.39	61.24	74	-12.76	peak
10	15484	43.15	6.39	49.54	54	-4.46	AVG
11	17796	55.33	8.92	64.25	74	-9.75	peak
12	17796	41.46	8.91	50.37	54	-3.63	AVG

Node:

- 1、 Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported..
- 2、 Radiated emissions measured in frequency above 1GHz were made with an instrument using peak/average detector mode.
- 3、 Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4、 Margin (dB), result in dBuV/m – limit in dBuV/m.

Restricted band Requirements

Note: All models were tested, and only the worst model(802.11n (HT20), MIMO) were reported in the report.

802.11 n(HT20)-Low (worst mode)

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.8	79.33	-21.05	58.28	74	-15.72	peak
2	2382.8	71.87	-21.05	50.82	54	-3.18	AVG
3	2390	78.54	-21.03	57.51	74	-16.49	peak
4	2390	71.92	-21.03	50.89	54	-3.11	AVG

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2370.48	78.95	-21.12	57.83	74	-16.17	peak
2	2370.48	71.89	-21.12	50.77	54	-3.23	AVG
3	2390	77.6	-21.03	56.57	74	-17.43	peak
4	2390	71.72	-21.03	50.69	54	-3.31	AVG

802.11 n(HT20)-High (worst mode)

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.5	78.85	-20.91	57.94	74	-16.06	peak
2	2483.5	71.23	-20.91	50.32	54	-3.68	AVG
3	2489.56	79.17	-20.91	58.26	74	-15.74	peak
4	2489.56	71.86	-20.91	50.95	54	-3.05	AVG

Vertical

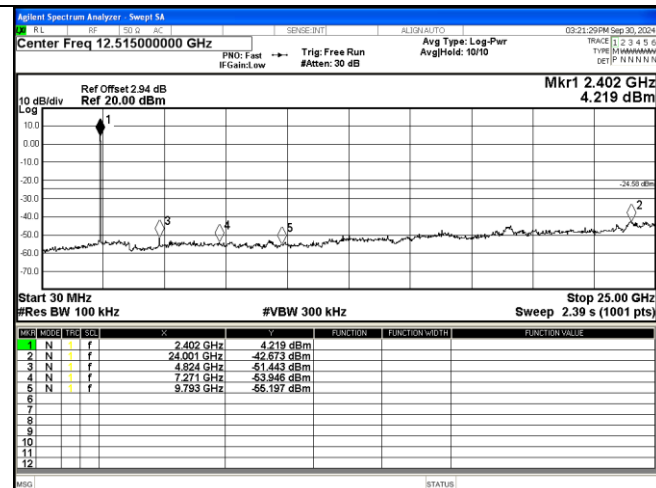
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.5	78.17	-20.91	57.26	74	-16.74	peak
2	2483.5	71.37	-20.91	50.46	54	-3.54	AVG
3	2487.52	78.75	-20.91	57.84	74	-16.16	peak
4	2487.52	71.66	-20.91	50.75	54	-3.25	AVG

Appendix A.3 Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

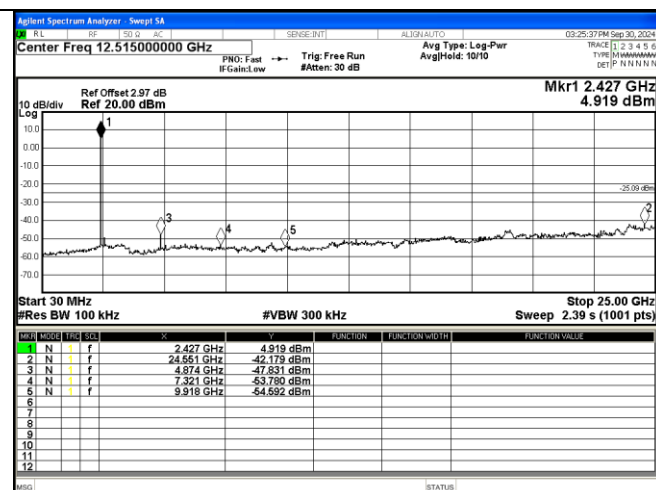
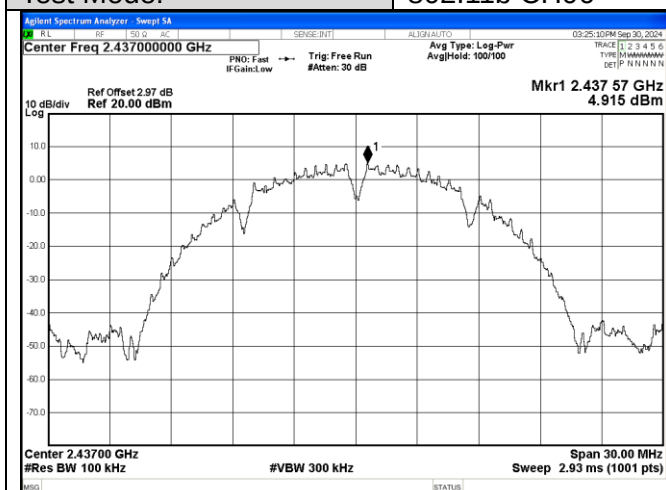
Note: All models were tested, and only the worst model(ANT 1) were reported in the report.

Conducted spurious emission

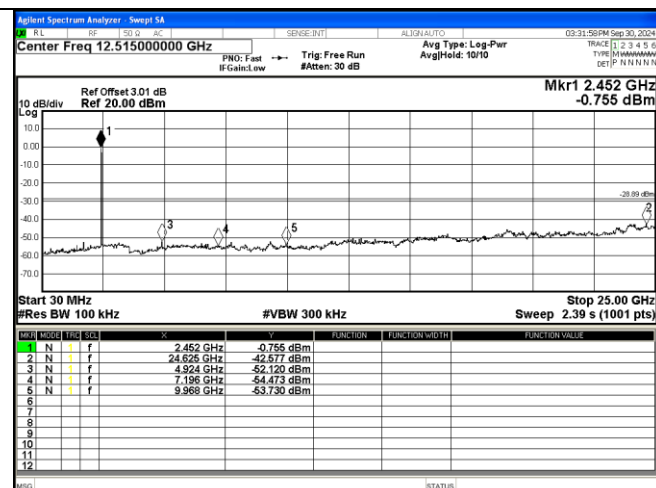
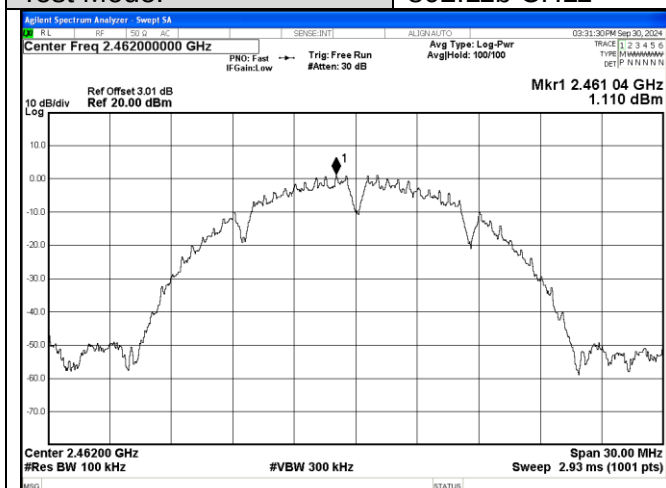
Test Mode: 802.11b CH01



Test Mode: 802.11b CH06

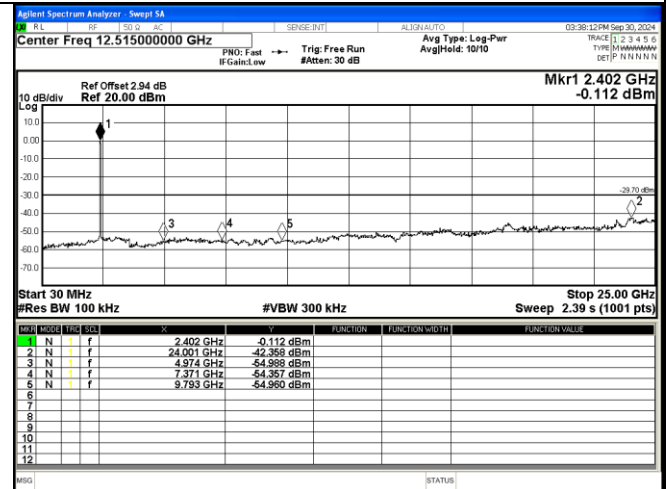
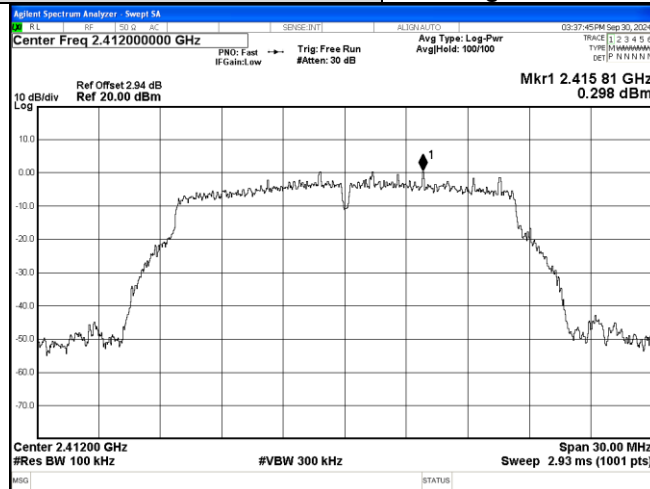


Test Mode: 802.11b CH11

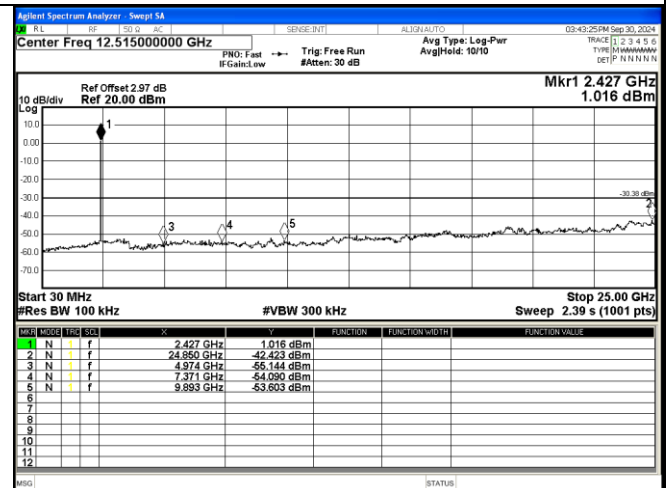
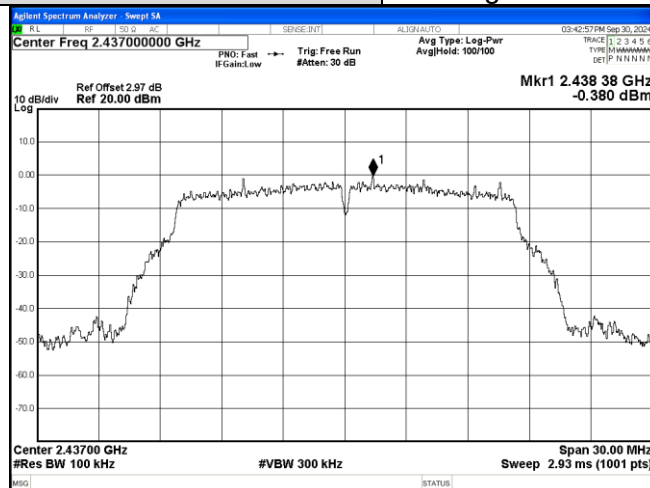




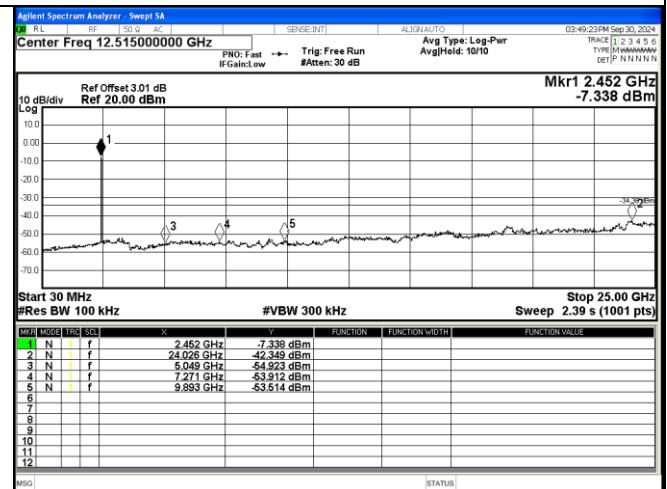
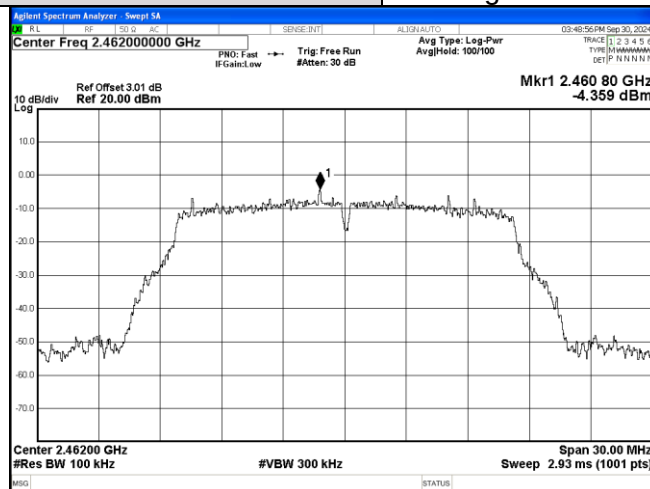
Test Mode: 802.11g CH01

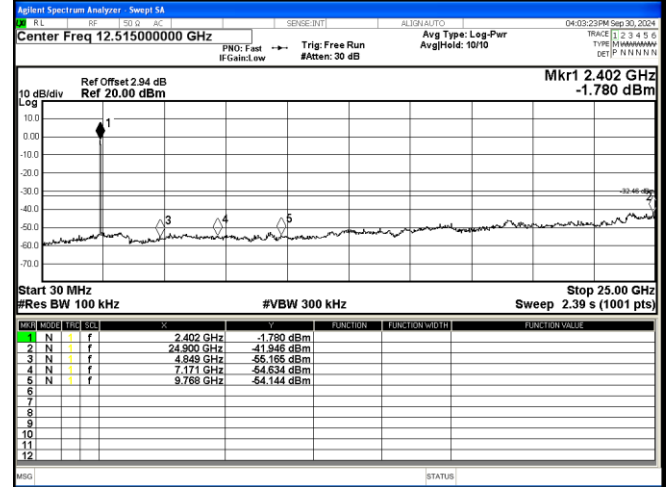
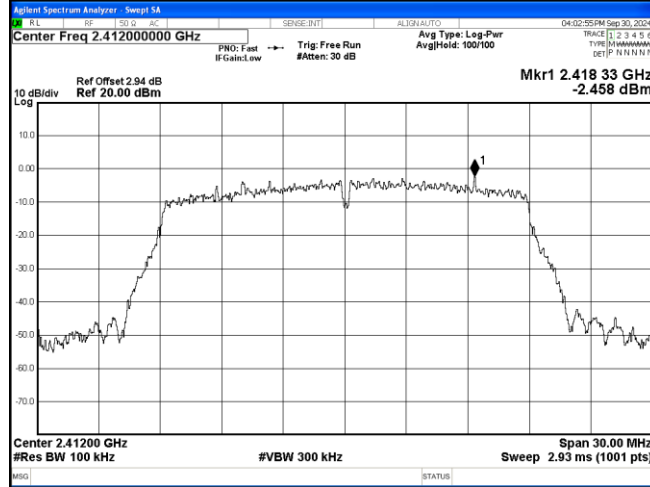
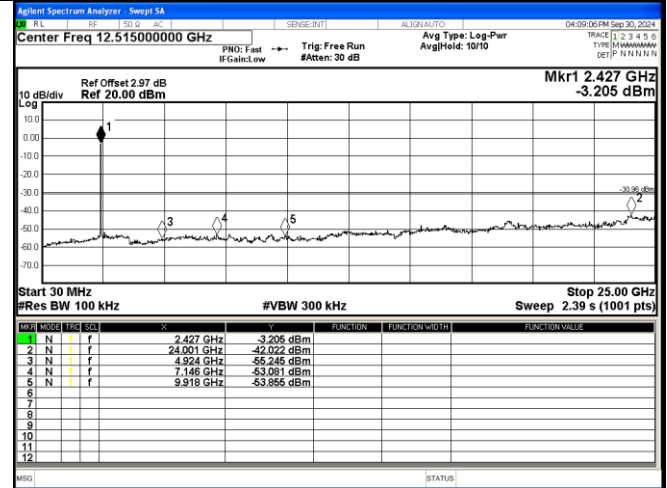
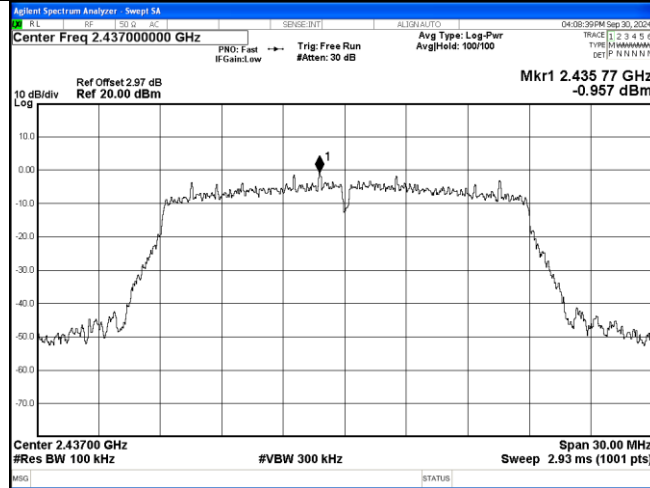
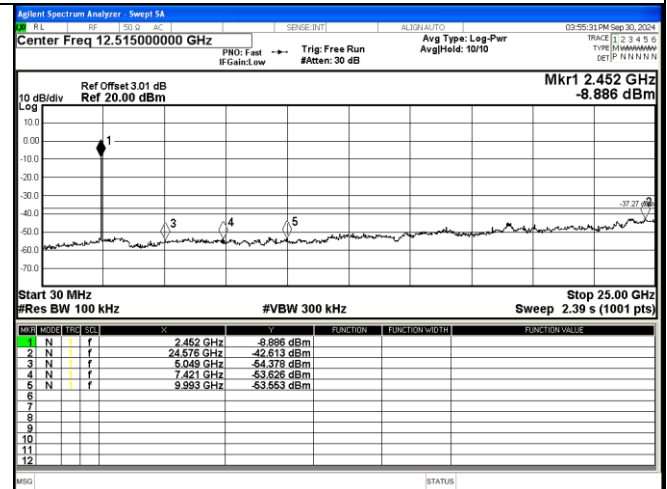
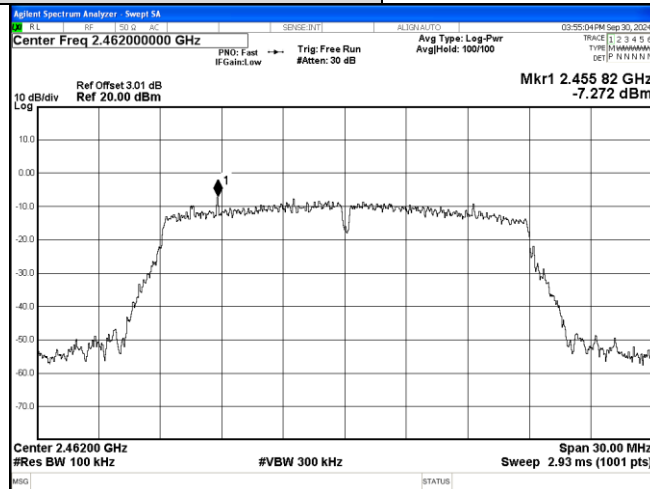


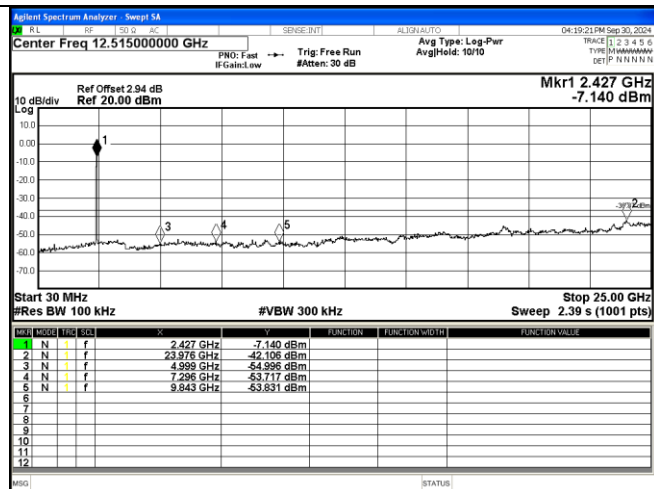
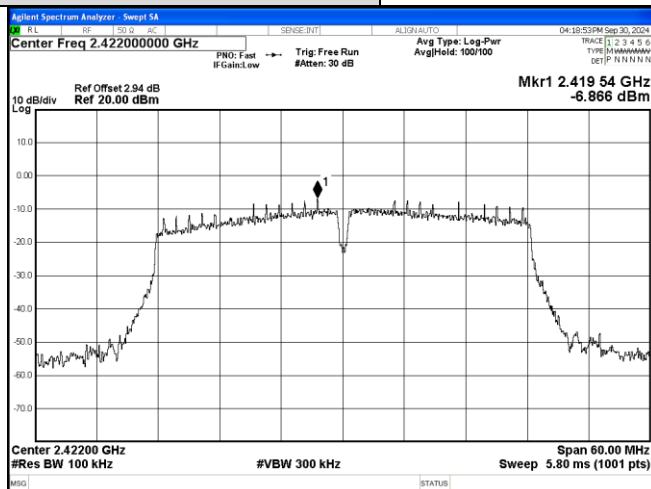
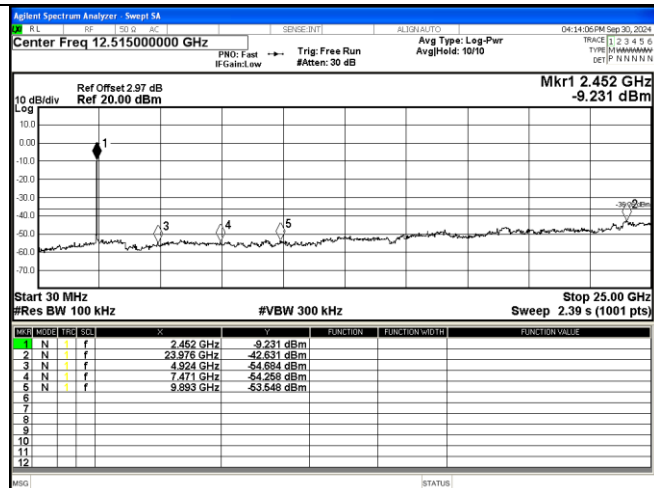
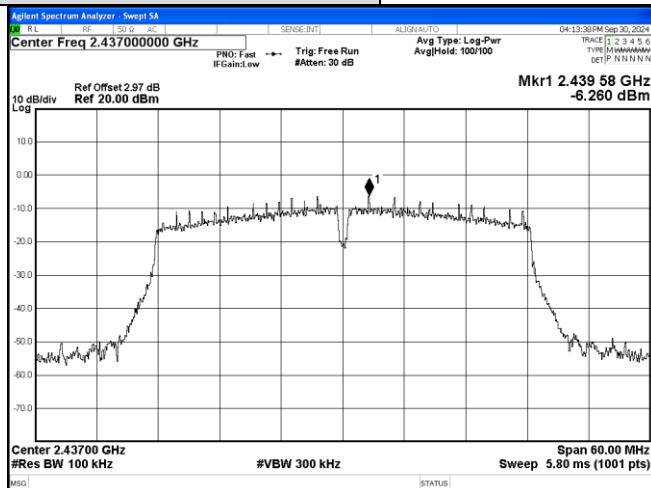
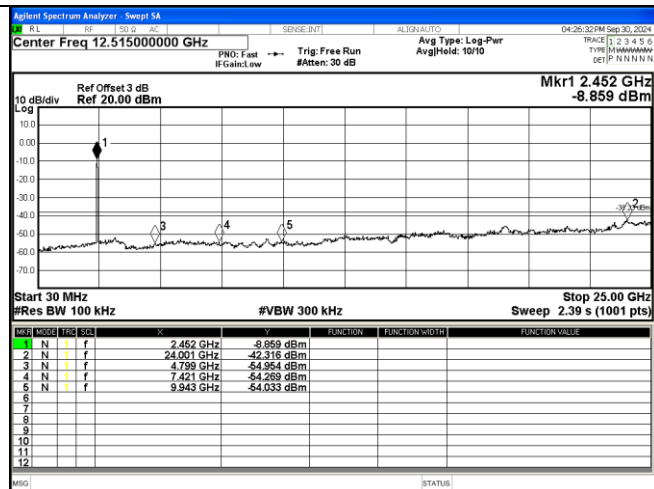
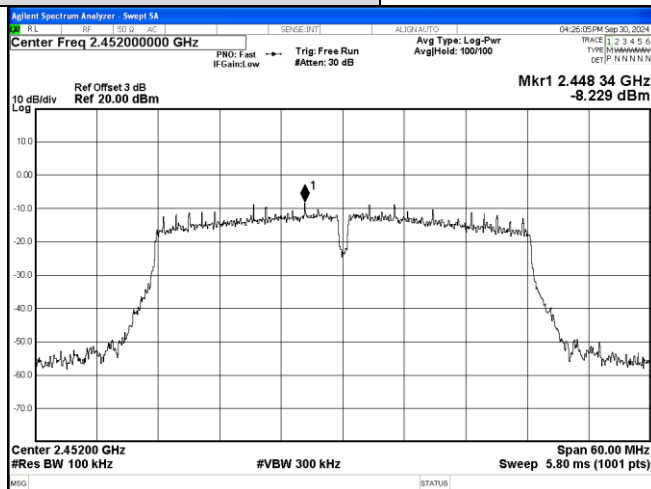
Test Mode: 802.11g CH06



Test Mode: 802.11g CH11



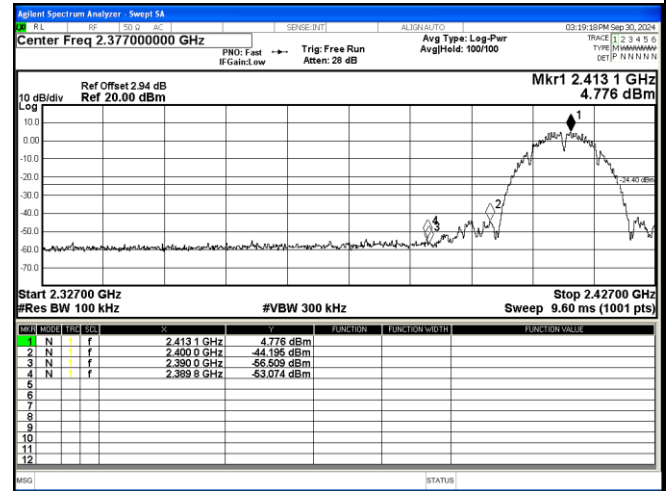
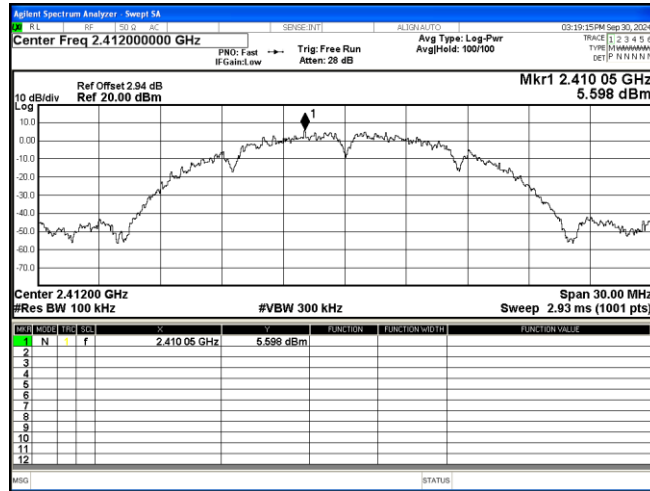
Test Mode: 802.11n20 CH01

Test Mode: 802.11n20 CH06

Test Mode: 802.11n20 CH11


Test Mode: 802.11n40 CH03

Test Mode: 802.11n40 CH06

Test Mode: 802.11n40 CH09


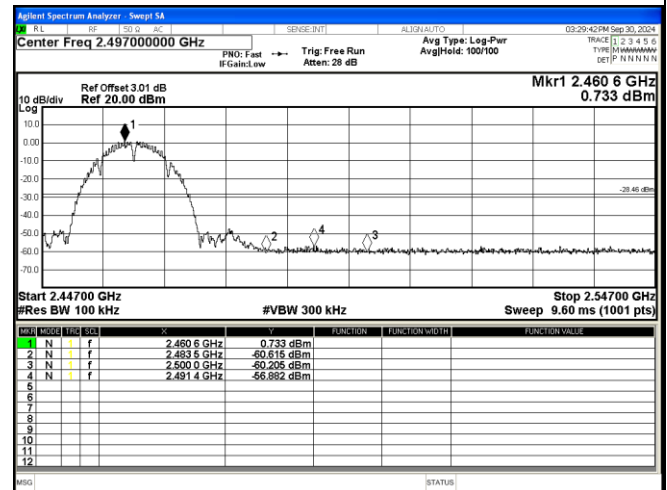
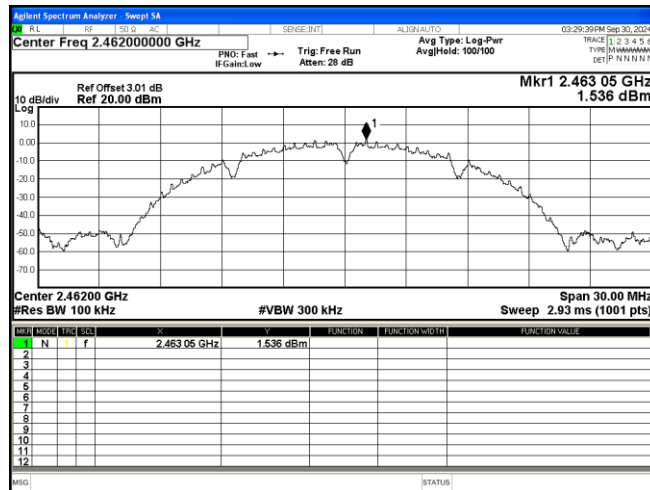
Note: All models were tested, and only the worst model(ANT 1) were reported in the report.

For Band edge(it's also the reference level for conducted spurious emission)

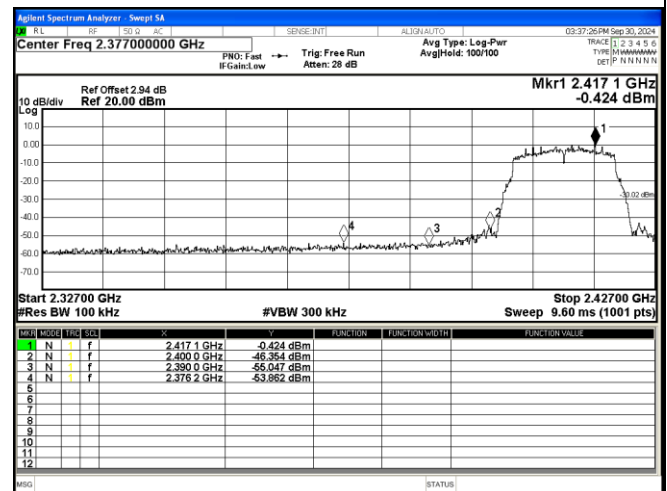
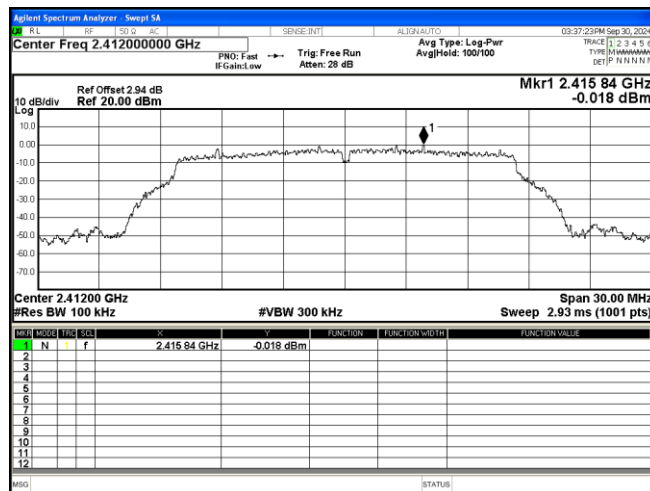
Test Mode: 802.11b CH01



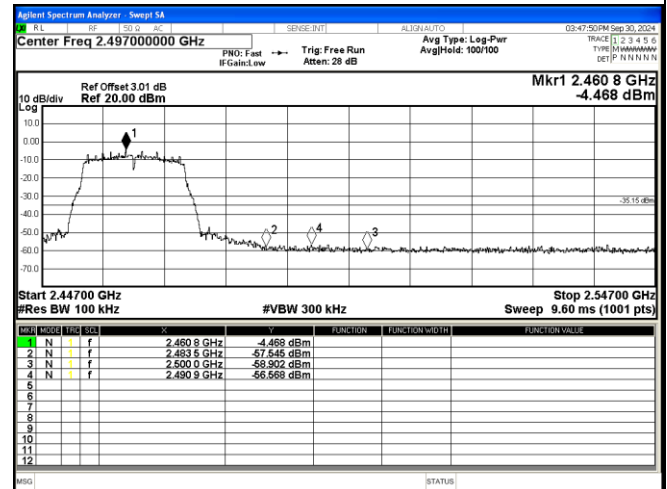
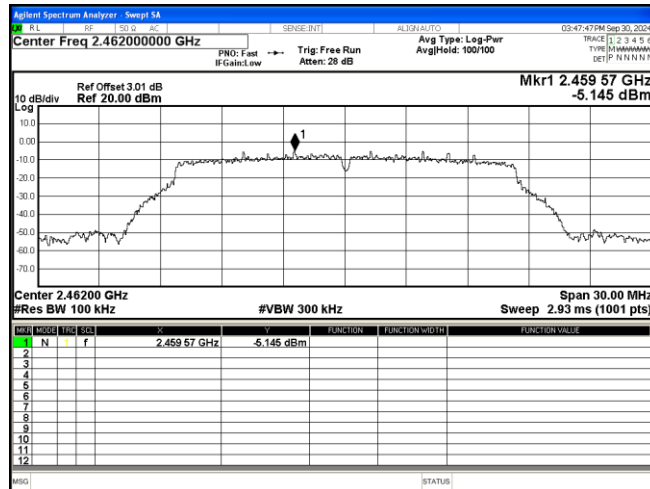
Test Mode: 802.11b CH011



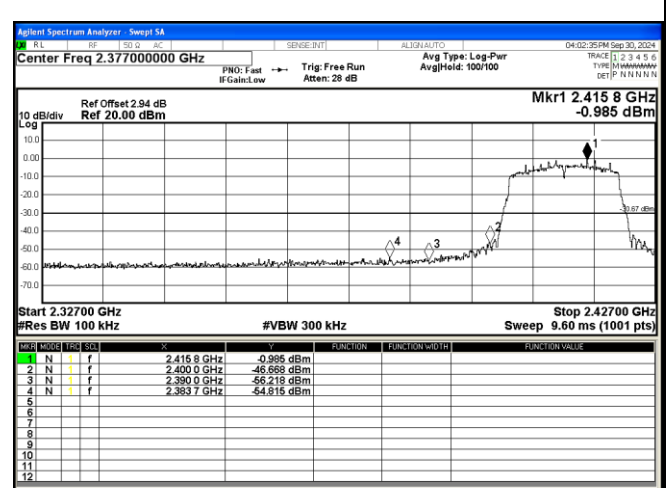
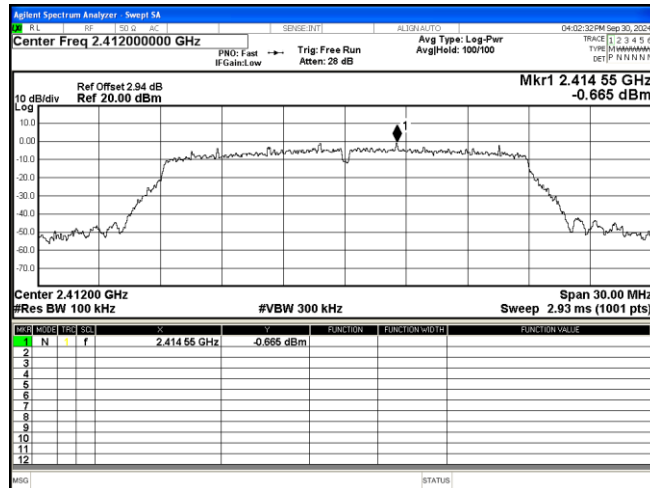
Test Mode: 802.11g CH01



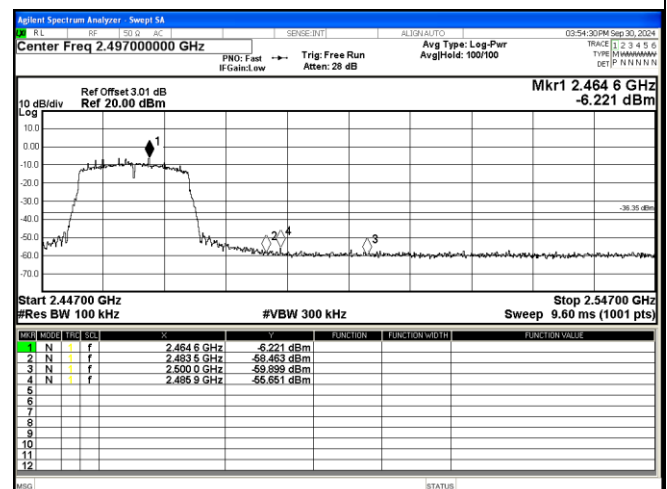
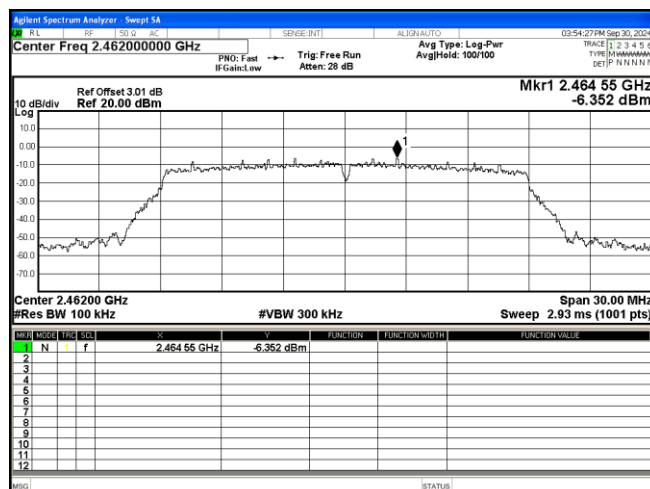
Test Mode: 802.11g CH11



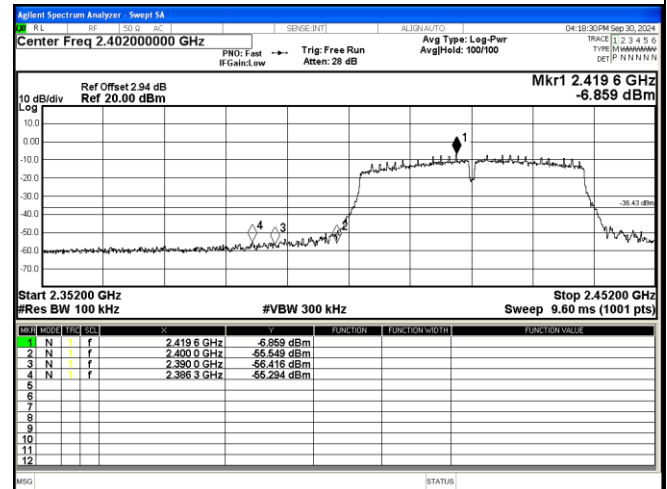
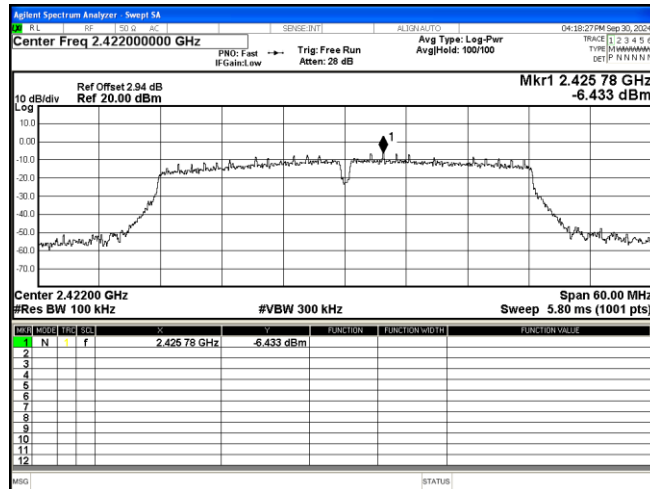
Test Mode: 802.11n20 CH01



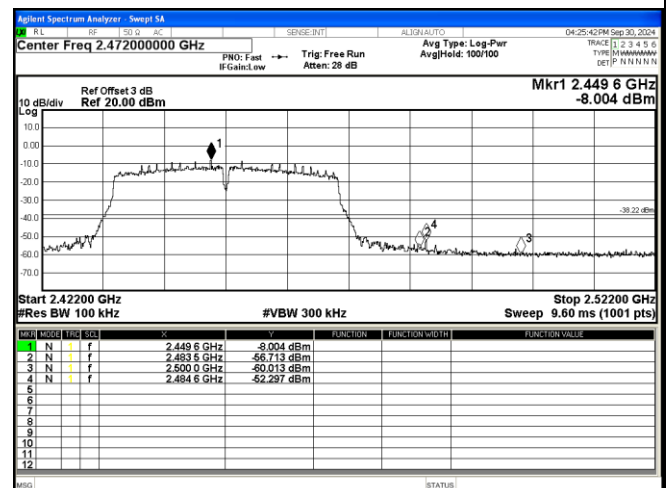
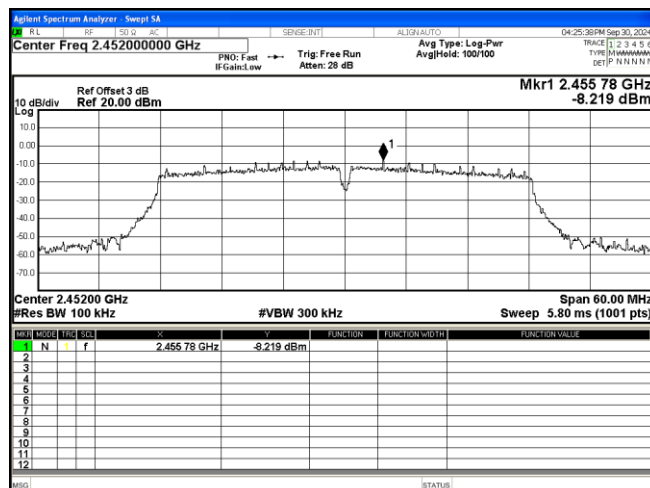
Test Mode: 802.11n20 CH11



Test Mode: 802.11n40 CH03



Test Mode: 802.11n40 CH09



Appendix A.4 Test Results of Conducted Power Spectral Density

802.11b					
Frequency	Power Density			Limit (dBm/3KHz)	Result
	(dBm/3kHz)				
	Ant1	Ant2	Total		
CH01	-7.62	-8.248	---	8	Pass
CH06	-8.677	-6.941	---	8	Pass
CH11	-11.646	-12.928	---	8	Pass

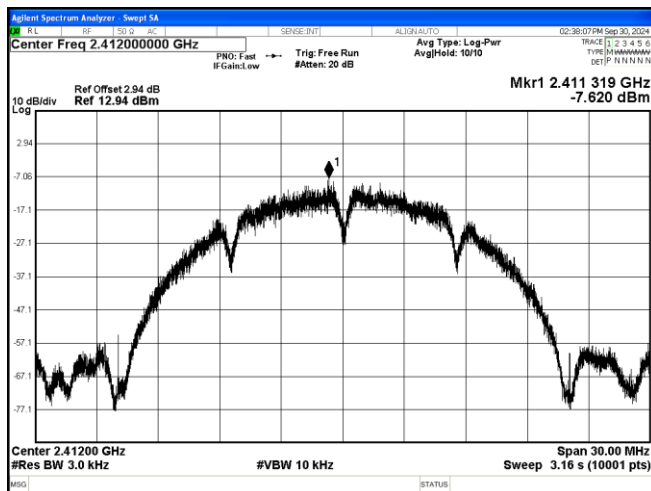
802.11g					
Frequency	Power Density			Limit (dBm/3KHz)	Result
	(dBm/3kHz)				
	Ant1	Ant2	Total		
CH01	-13.119	-10.658	---	8	Pass
CH06	-12.856	-11.847	---	8	Pass
CH11	-17.473	-17.697	---	8	Pass

802.11n20					
Frequency	Power Density			Limit (dBm/3KHz)	Result
	(dBm/3kHz)				
	Ant1	Ant2	Total		
CH01	-14.473	-13.525	-10.963	8	Pass
CH06	-12.785	-13.824	-10.263	8	Pass
CH11	-19.52	-18.704	-16.083	8	Pass

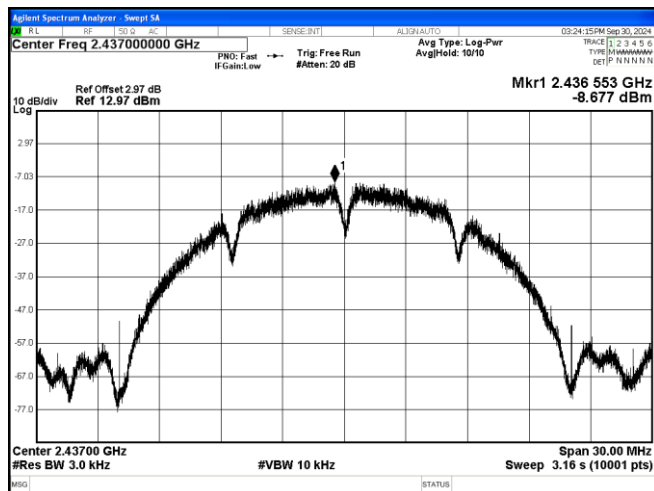
802.11n40					
Frequency	Power Density			Limit (dBm/3KHz)	Result
	(dBm/3kHz)				
	Ant1	Ant2	Total		
CH03	-19.874	-21.016	-17.397	8	Pass
CH06	-20.014	-19.595	-16.789	8	Pass
CH09	-22.383	-21.999	-19.176	8	Pass

ANT1

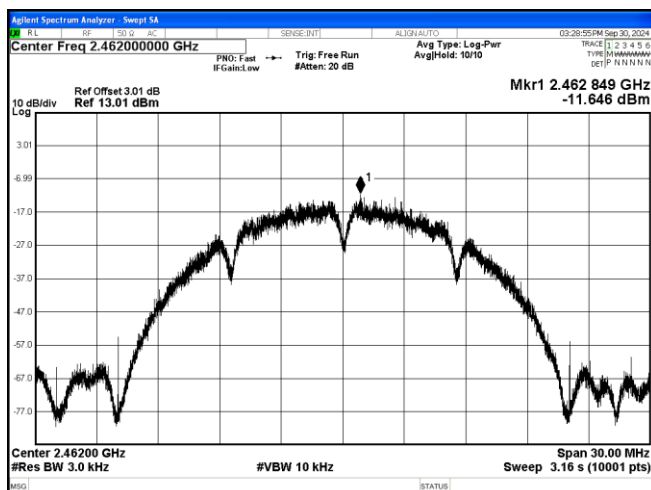
Test Mode: 802.11b CH01



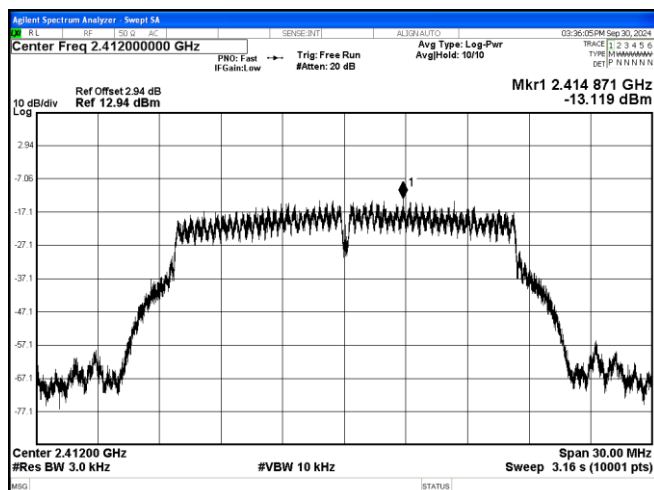
Test Mode: 802.11b CH06



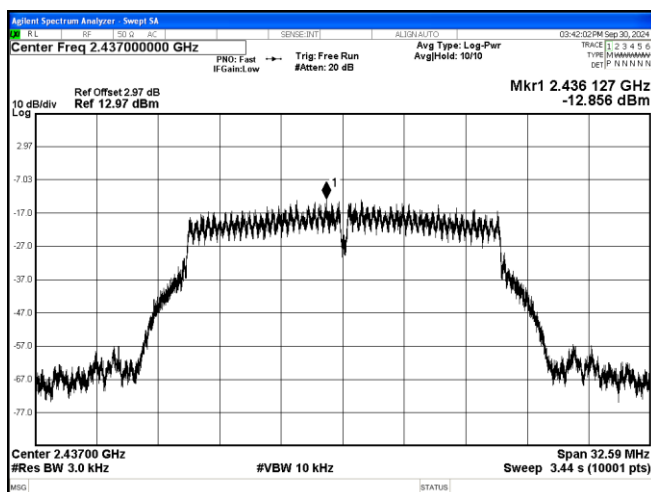
Test Mode: 802.11b CH11



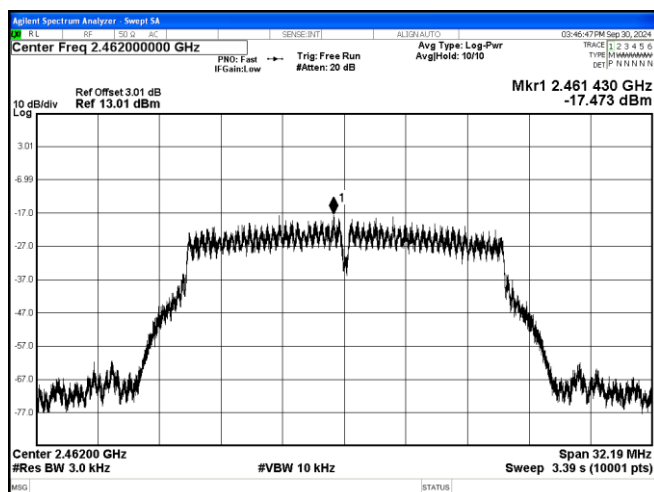
Test Mode: 802.11g CH01

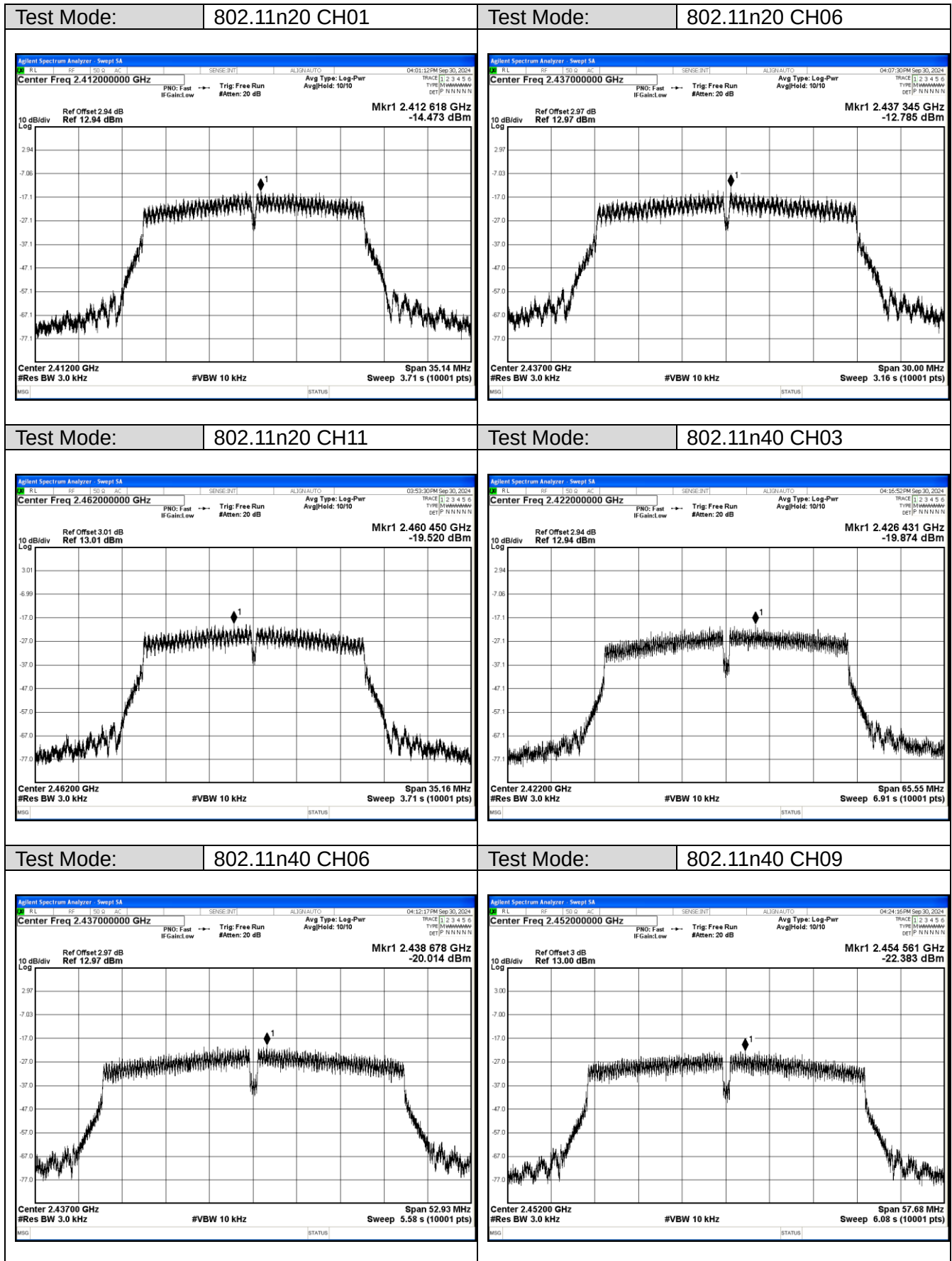


Test Mode: 802.11g CH06

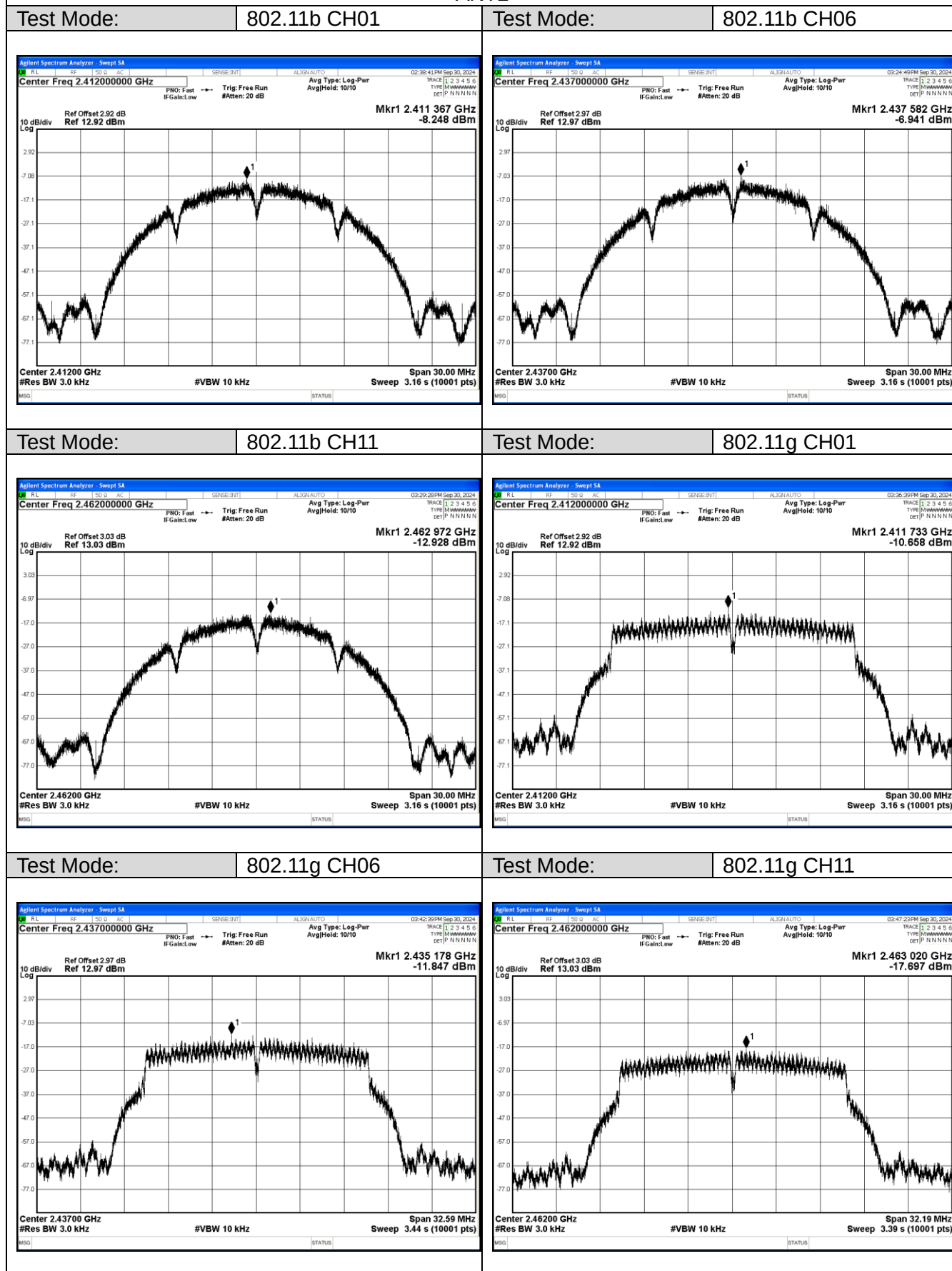


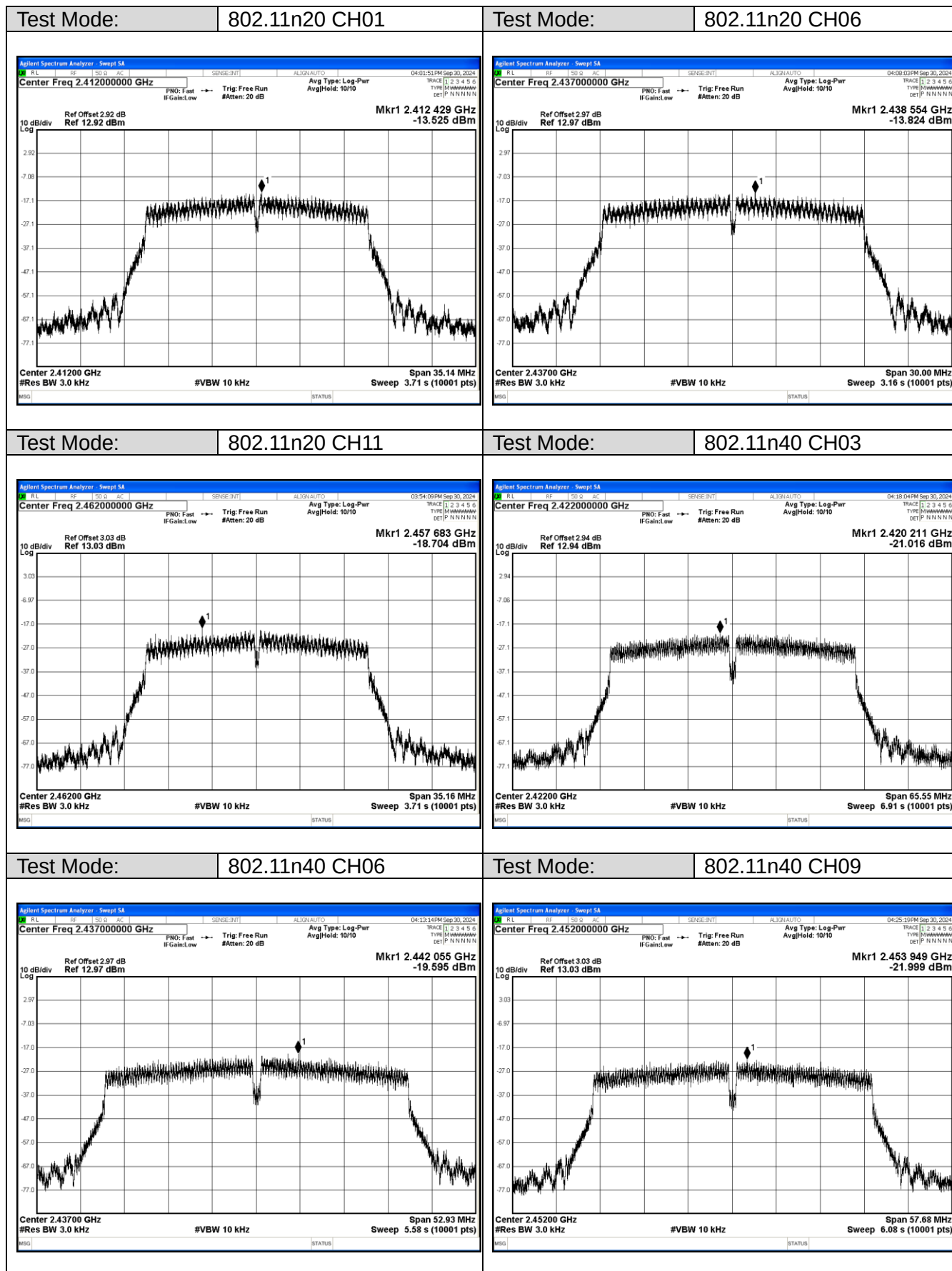
Test Mode: 802.11g CH11





ANT2





Appendix A.5 Test Results of 6dB and 99% BANDWIDTH

802.11b						
Frequency	99% Bandwidth (MHz)		6dB Bandwidth (MHz)		6dB limit (KHz)	Result
	Ant 1	Ant 2	Ant 1	Ant 2		
CH01	13.333	13.321	7.5313	8.0874	0.5	Pass
CH06	13.353	13.281	8.5178	8.0258	0.5	Pass
CH11	13.304	13.268	7.5247	8.1417	0.5	Pass

802.11g						
Frequency	99% Bandwidth (MHz)		6dB Bandwidth (MHz)		6dB limit (KHz)	Result
	Ant 1	Ant 2	Ant 1	Ant 2		
CH01	16.413	16.493	15.7728	14.0624	0.5	Pass
CH06	16.541	16.504	13.8209	16.2931	0.5	Pass
CH11	16.555	16.541	16.0618	16.0937	0.5	Pass

802.11n20						
Frequency	99% Bandwidth (MHz)		6dB Bandwidth (MHz)		6dB limit (KHz)	Result
	Ant 1	Ant 2	Ant 1	Ant 2		
CH01	17.590	17.617	15.3176	17.5687	0.5	Pass
CH06	17.624	17.531	16.9941	11.9144	0.5	Pass
CH11	17.599	17.580	14.4387	17.5788	0.5	Pass

802.11n40						
Frequency	99% Bandwidth (MHz)		6dB Bandwidth (MHz)		6dB limit (KHz)	Result
	Ant 1	Ant 2	Ant 1	Ant 2		
CH03	36.106	35.968	32.9979	32.7725	0.5	Pass
CH06	35.909	35.981	24.7848	26.4642	0.5	Pass
CH09	36.087	35.989	22.118	28.8375	0.5	Pass

99% Bandwidth

Ant 1

