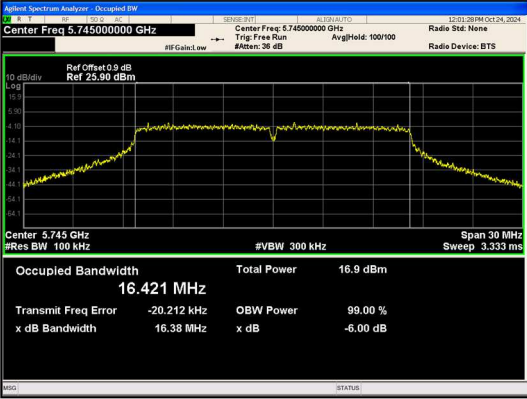
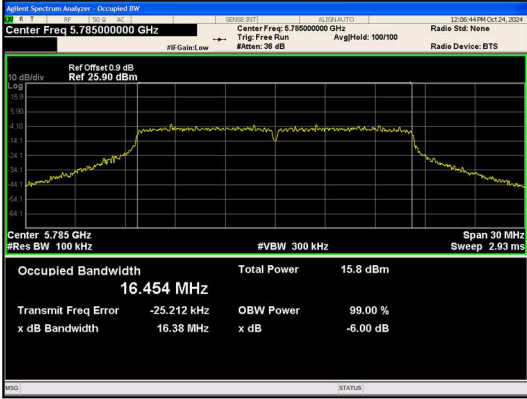
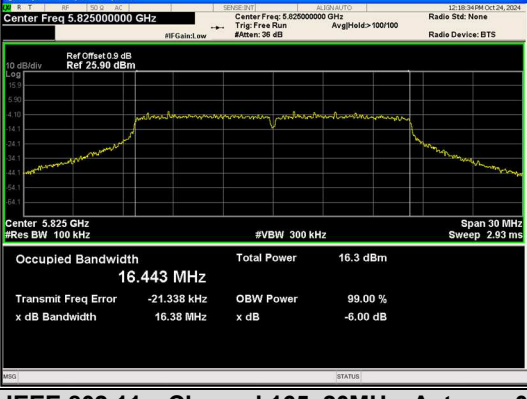
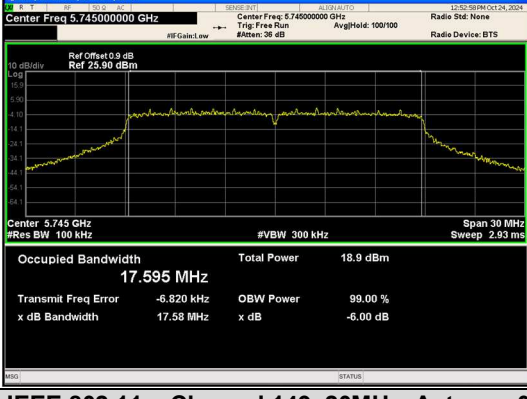
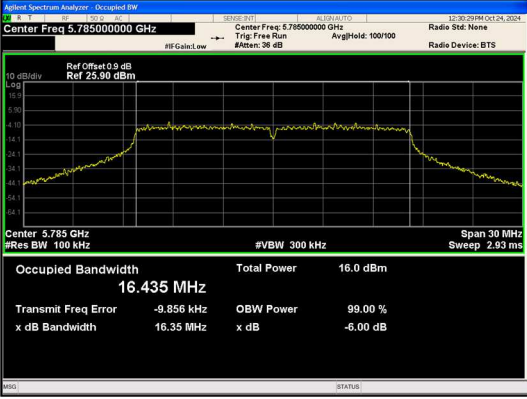
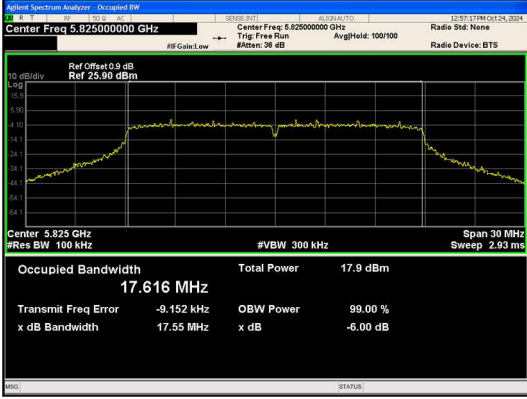


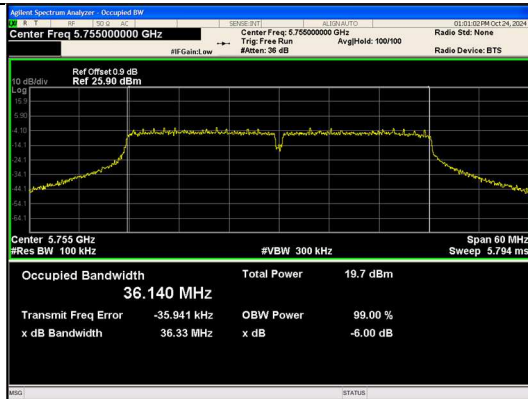
Appendix B.3: Test Results 6dB Bandwidth

Test Result

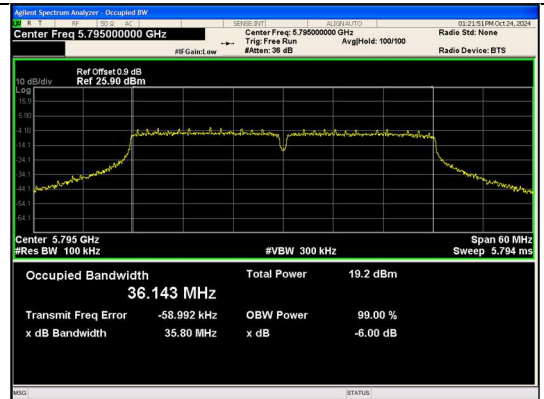
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	16.38	≥0.5	PASS
	157		5785	16.38		PASS
	165		5825	16.38		PASS
IEEE 802.11n_20	149		5745	17.58		PASS
	157		5785	16.35		PASS
	165		5825	17.55		PASS
IEEE 802.11n_40	151		5755	36.33		PASS
	159		5795	35.80		PASS

Test Graphs

 IEEE 802.11a Channel 149 20MHz Antenna 0	 IEEE 802.11a Channel 157 20MHz Antenna 0
 IEEE 802.11a Channel 165 20MHz Antenna 0	 IEEE 802.11n Channel 149 20MHz Antenna 0
 IEEE 802.11n Channel 157 20MHz Antenna 0	 IEEE 802.11n Channel 165 20MHz Antenna 0



IEEE 802.11n Channel 151 40MHz Antenna 0



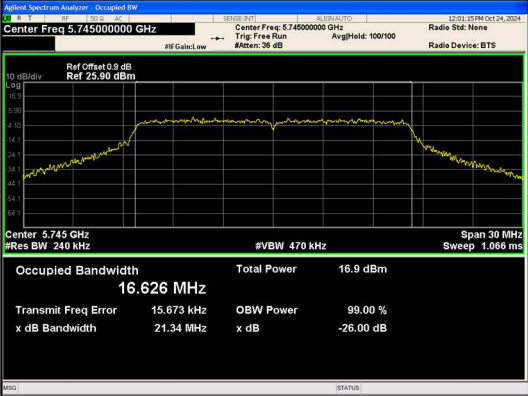
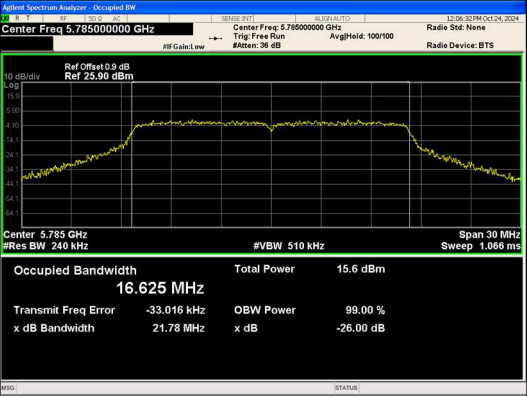
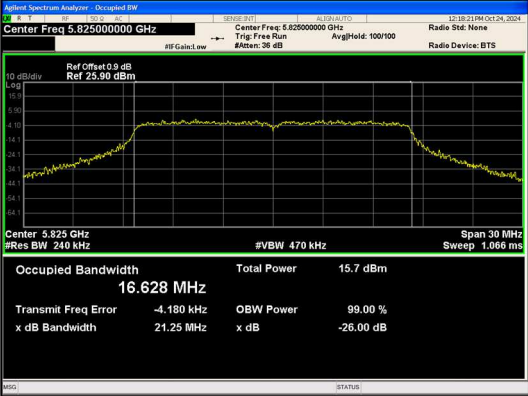
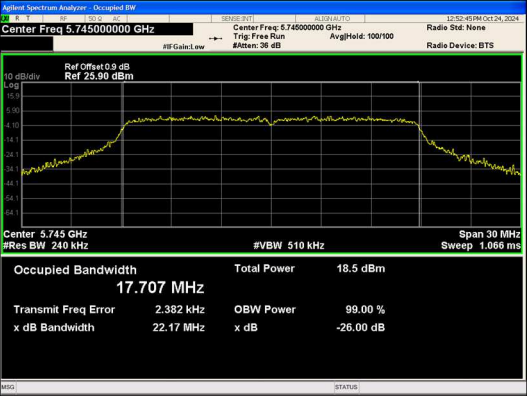
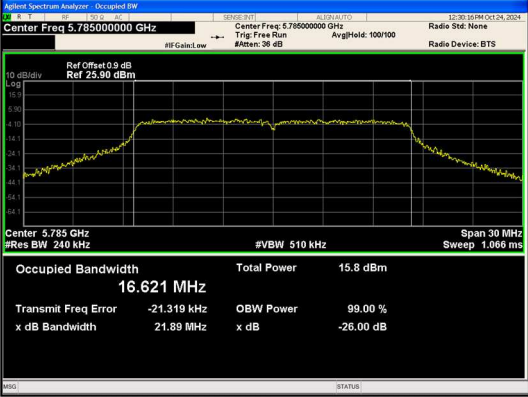
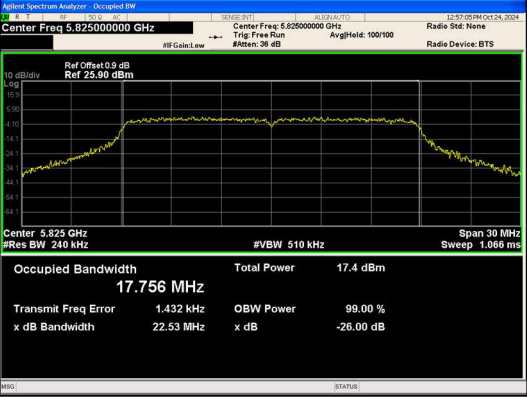
IEEE 802.11n Channel 159 40MHz Antenna 0

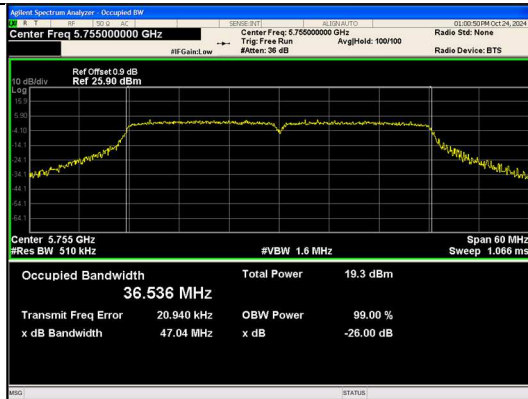
Appendix B.4: Test Results of 26dB Bandwidth

Test Result

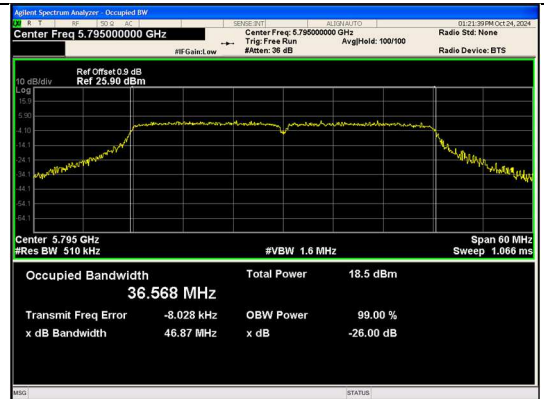
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	21.34	1.13
	157		5785	21.78	1.15
	165		5825	21.25	1.13
IEEE 802.11n_20	149		5745	22.17	1.11
	157		5785	21.89	1.12
	165		5825	22.53	1.11
IEEE 802.11n_40	151		5755	47.04	1.08
	159		5795	46.87	1.09

Test Graphs

 IEEE 802.11a Channel 149 20MHz Antenna 0	 IEEE 802.11a Channel 157 20MHz Antenna 0
 IEEE 802.11a Channel 165 20MHz Antenna 0	 IEEE 802.11n Channel 149 20MHz Antenna 0
 IEEE 802.11n Channel 157 20MHz Antenna 0	 IEEE 802.11n Channel 165 20MHz Antenna 0



IEEE 802.11n Channel 151 40MHz Antenna 0



IEEE 802.11n Channel 159 40MHz Antenna 0

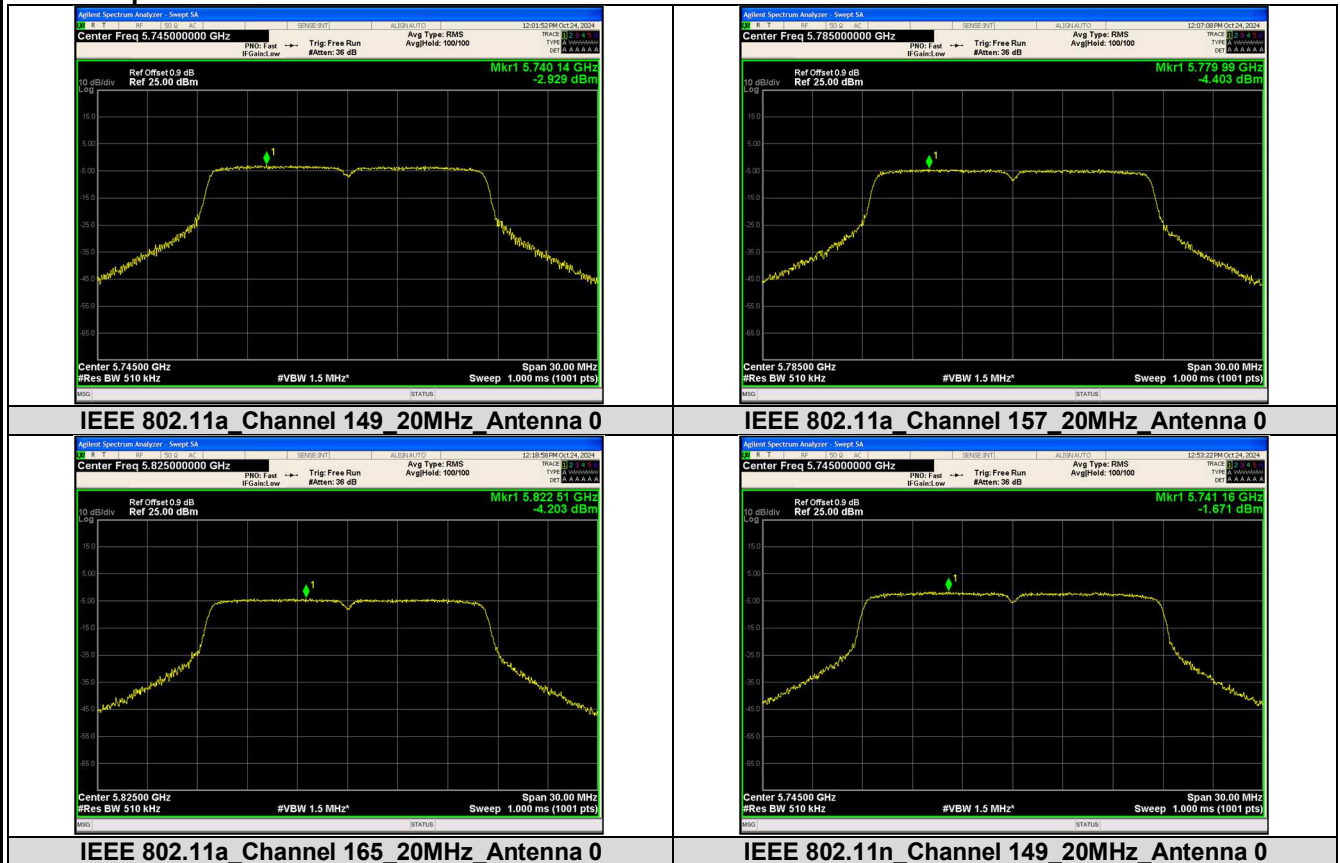
Appendix B.5: Test Results of Power Spectral Density

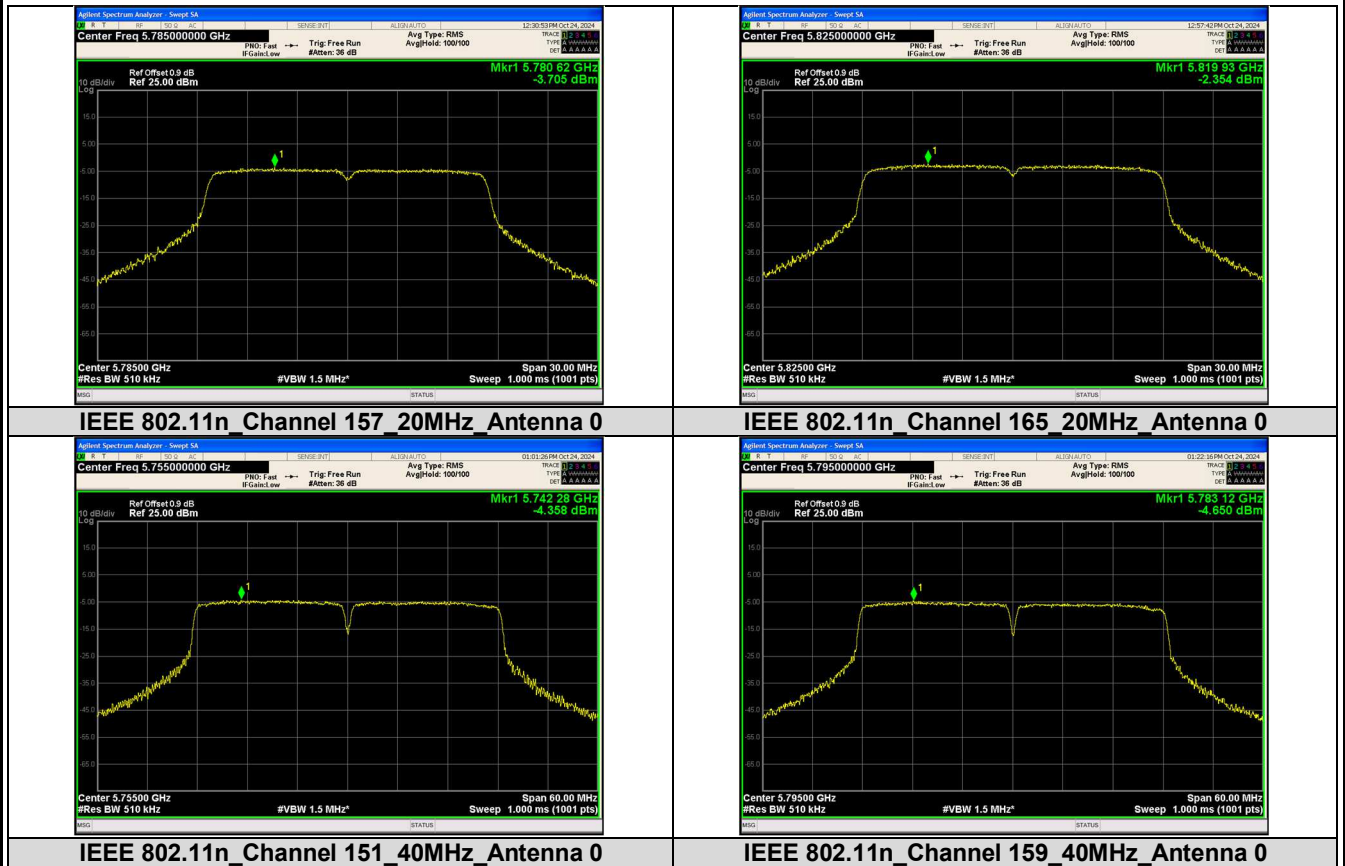
Test Result

Mode	Channel	Ant. 0 Corr'd PSD (dBm/0.5MHz)	Ant. 1 Corr'd PSD (dBm/0.5MHz)	Ant. MIMO Corr'd PSD (dBm/0.5MHz)	Limit (dBm/0.5MHz)	Result
IEEE 802.11a	149	-2.898	-4.935	-0.788	30	PASS
	157	-4.372	-5.391	-1.841		PASS
	165	-4.172	-5.938	-1.956		PASS
IEEE 802.11n_20	149	-1.638	-5.234	-0.064		PASS
	157	-3.672	-5.513	-1.485		PASS
	165	-2.321	-6.391	-0.885		PASS
IEEE 802.11n_40	151	-4.24	-8.084	-2.740		PASS
	159	-4.532	-8.44	-3.050		PASS

Mode	Channel	Ant. 0 Meas PSD (dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/0.5MHz)	Limit (dBm/0.5MHz)	Result
IEEE 802.11a	149	-2.929	-2.898	30	PASS
	157	-4.403	-4.372		PASS
	165	-4.203	-4.172		PASS
IEEE 802.11n_20	149	-1.671	-1.638		PASS
	157	-3.705	-3.672		PASS
	165	-2.354	-2.321		PASS
IEEE 802.11n_40	151	-4.358	-4.24		PASS
	159	-4.650	-4.532		PASS

Test Graphs

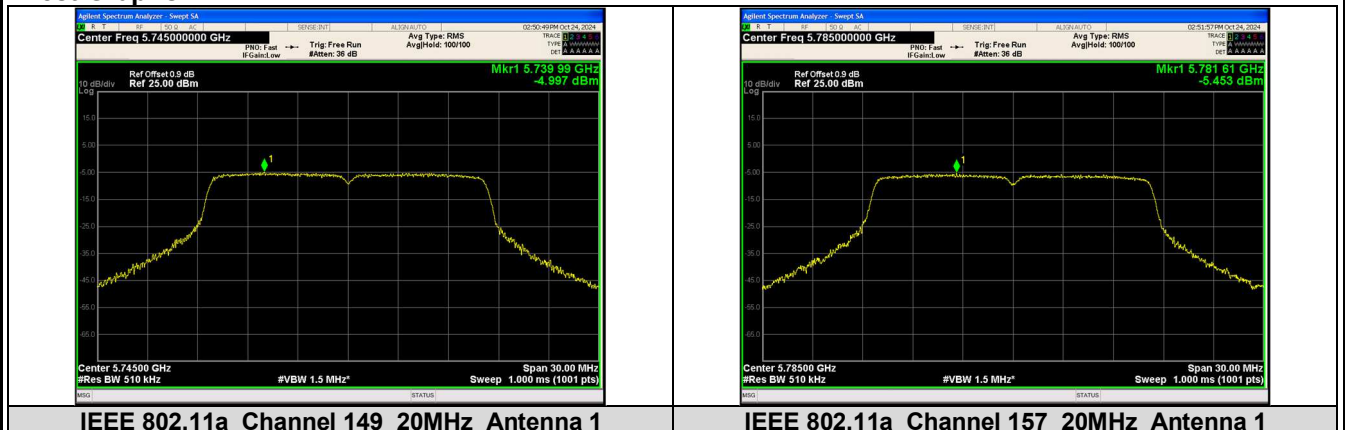


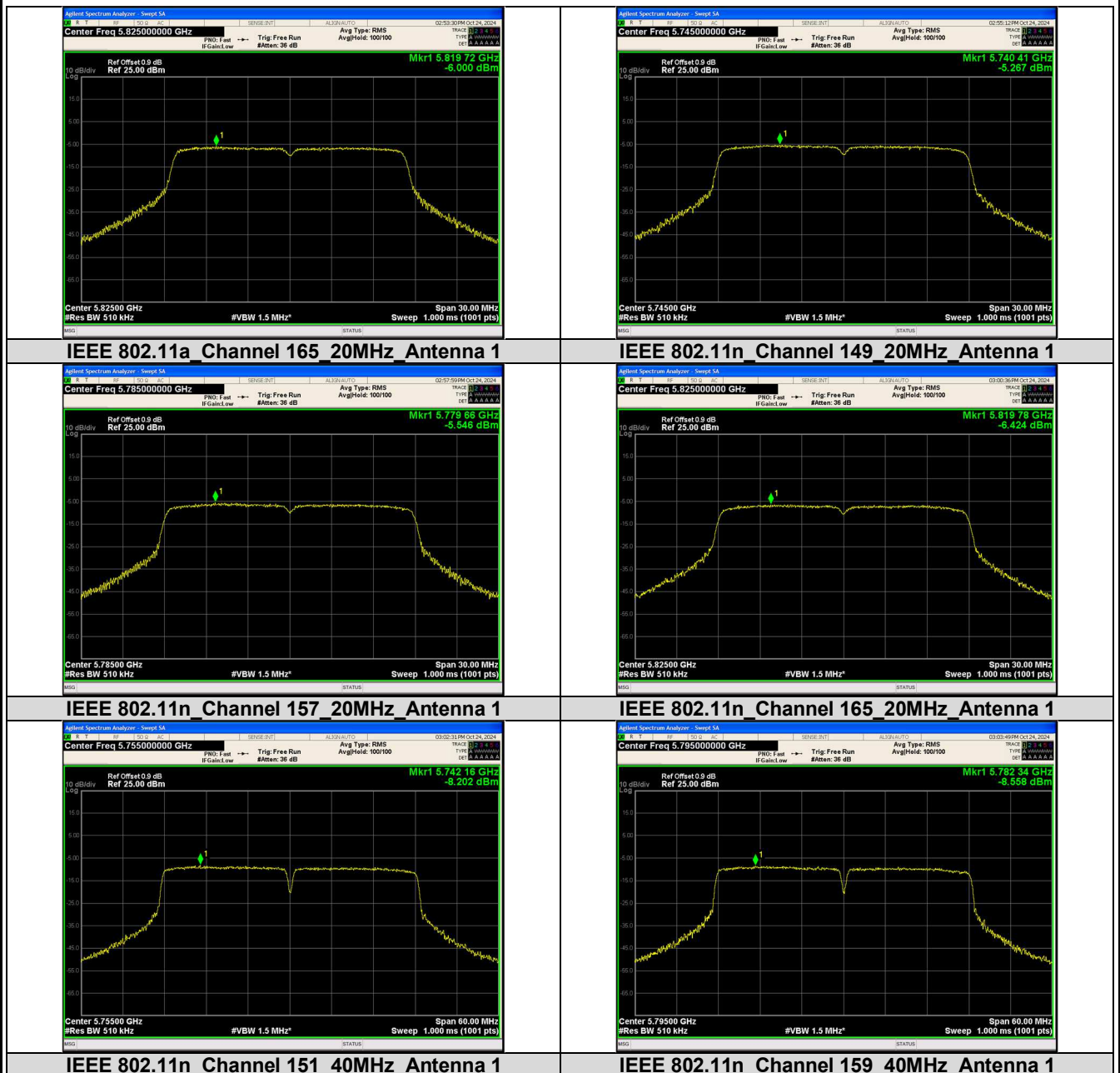


Test Result

Mode	Channel	Ant. 1 Meas PSD (dBm/0.5MHz)	Ant. 1 Corr'd PSD (dBm/0.5MHz)	Limit (dBm/0.5MHz)	Result
IEEE 802.11a	149	-4.997	-4.935	30	PASS
	157	-5.453	-5.391		PASS
	165	-6.000	-5.938		PASS
IEEE 802.11n_20	149	-5.267	-5.234		PASS
	157	-5.546	-5.513		PASS
	165	-6.424	-6.391		PASS
IEEE 802.11n_40	151	-8.202	-8.084		PASS
	159	-8.558	-8.44		PASS

Test Graphs





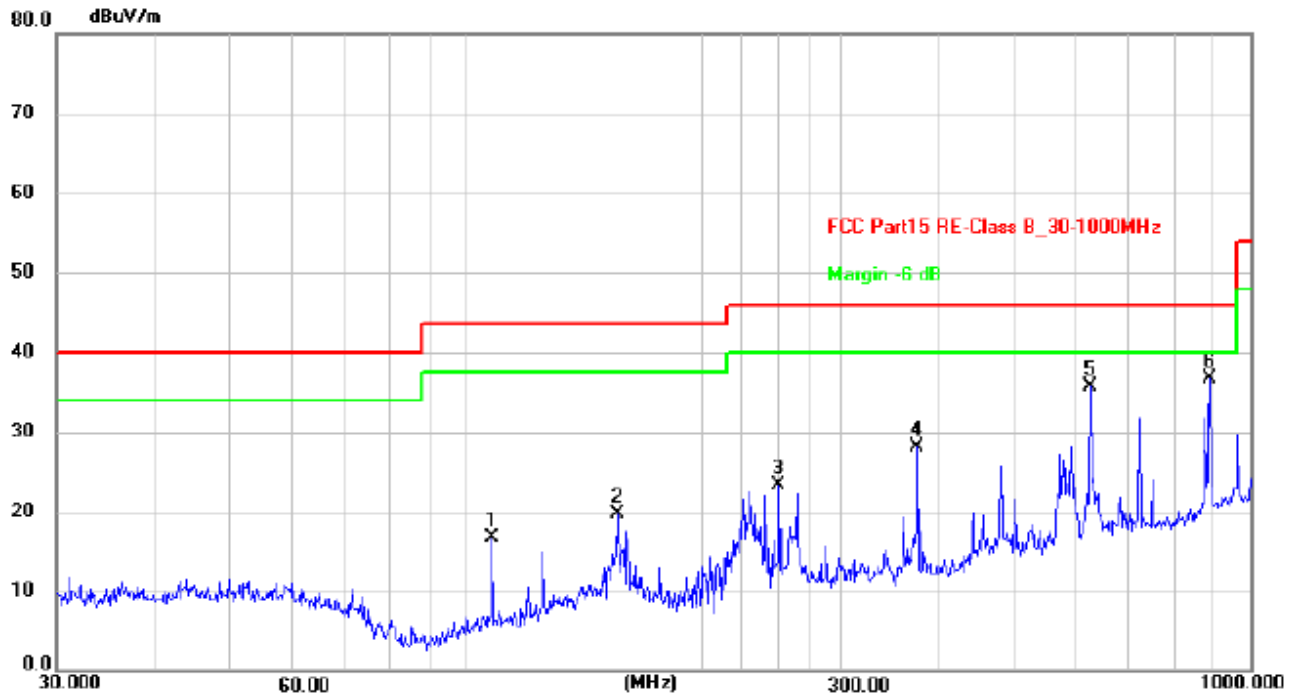
Appendix B.6: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations and channels, but only the worst case was presented in this report.
- 2) 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.

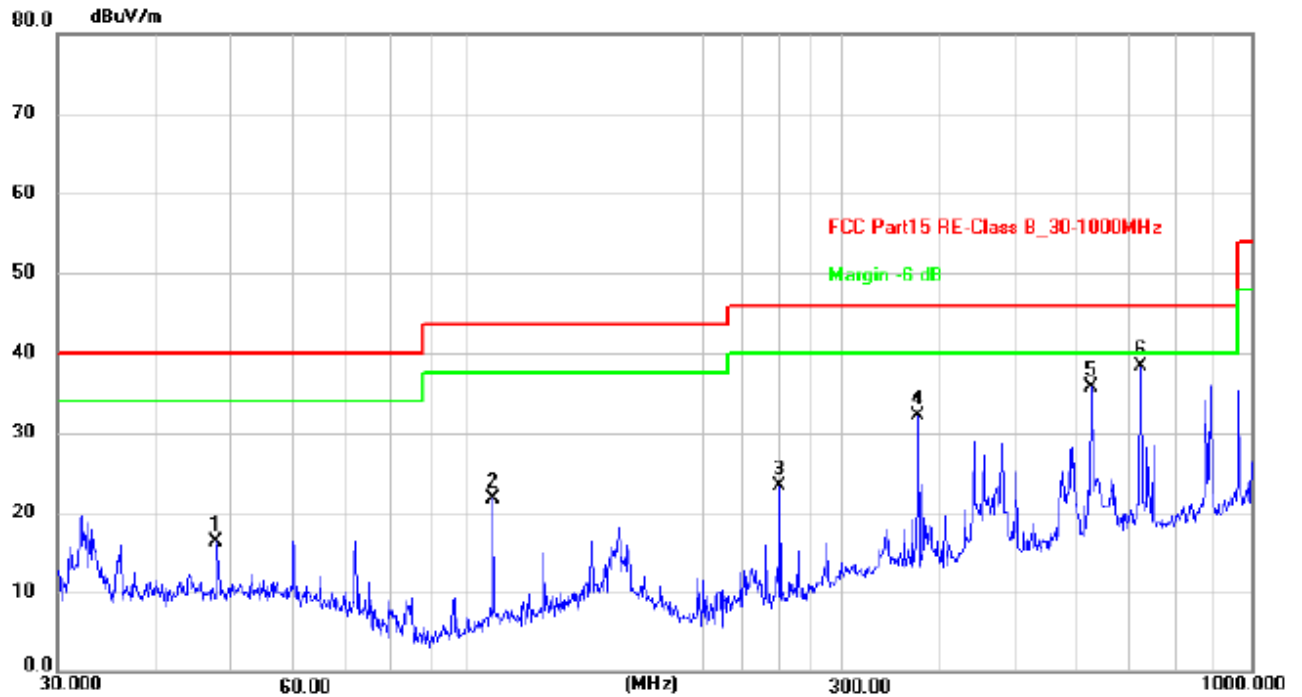
30 MHz - 1GHz

802.11 a, ANT Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	107.8877	49.23	-32.48	16.75	43.50	-26.75	peak	150	360	P	
2	155.9101	48.66	-28.98	19.68	43.50	-23.82	peak	150	360	P	
3	250.3012	54.01	-30.68	23.33	46.00	-22.67	peak	150	360	P	
4	375.9385	54.85	-26.72	28.13	46.00	-17.87	peak	150	360	P	
5	625.0780	56.56	-20.84	35.72	46.00	-10.28	peak	150	360	P	
6 *	887.6099	53.67	-16.99	36.68	46.00	-9.32	peak	150	360	P	

802.11 a, ANT Polarization: Vertical

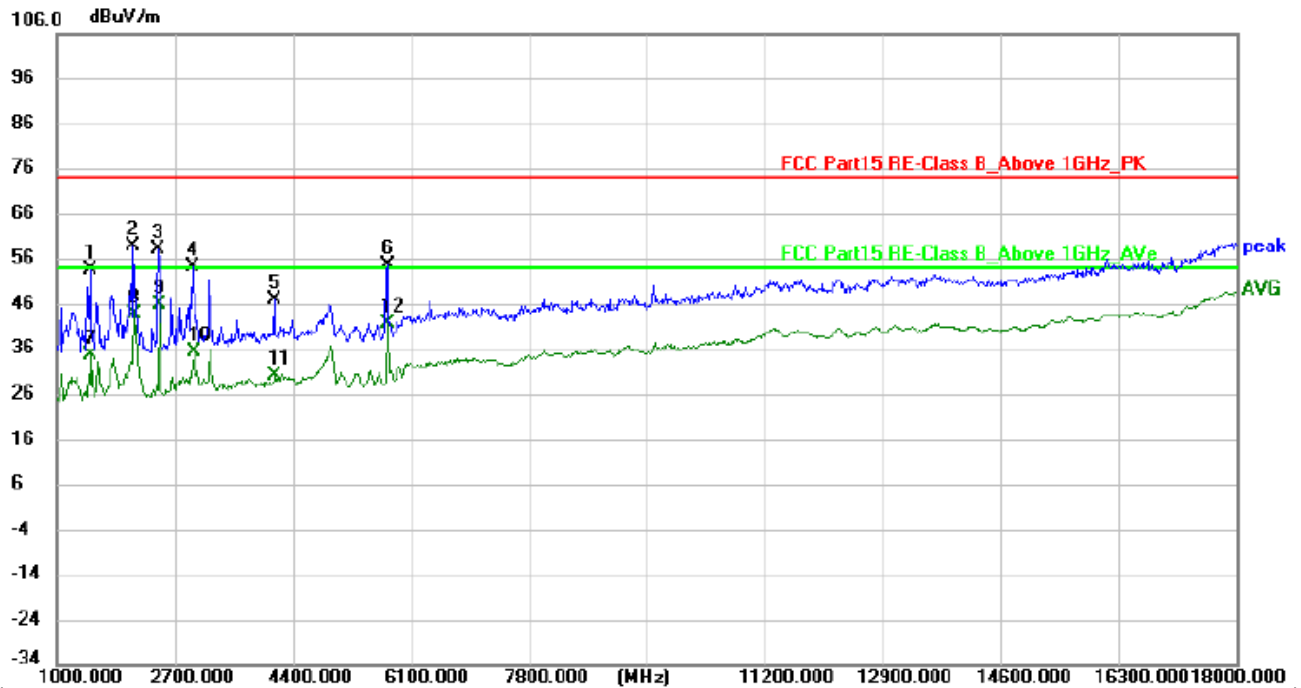


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	47.8260	45.22	-28.99	16.23	40.00	-23.77	peak	150	360	P	
2	107.8877	54.09	-32.48	21.61	43.50	-21.89	peak	150	360	P	
3	250.3012	53.97	-30.68	23.29	46.00	-22.71	peak	150	360	P	
4	375.9385	58.81	-26.72	32.09	46.00	-13.91	peak	150	360	P	
5	625.0780	56.55	-20.84	35.71	46.00	-10.29	peak	150	360	P	
6 *	721.7259	57.52	-19.16	38.36	46.00	-7.64	peak	150	360	P	

1GHz - 18GHz

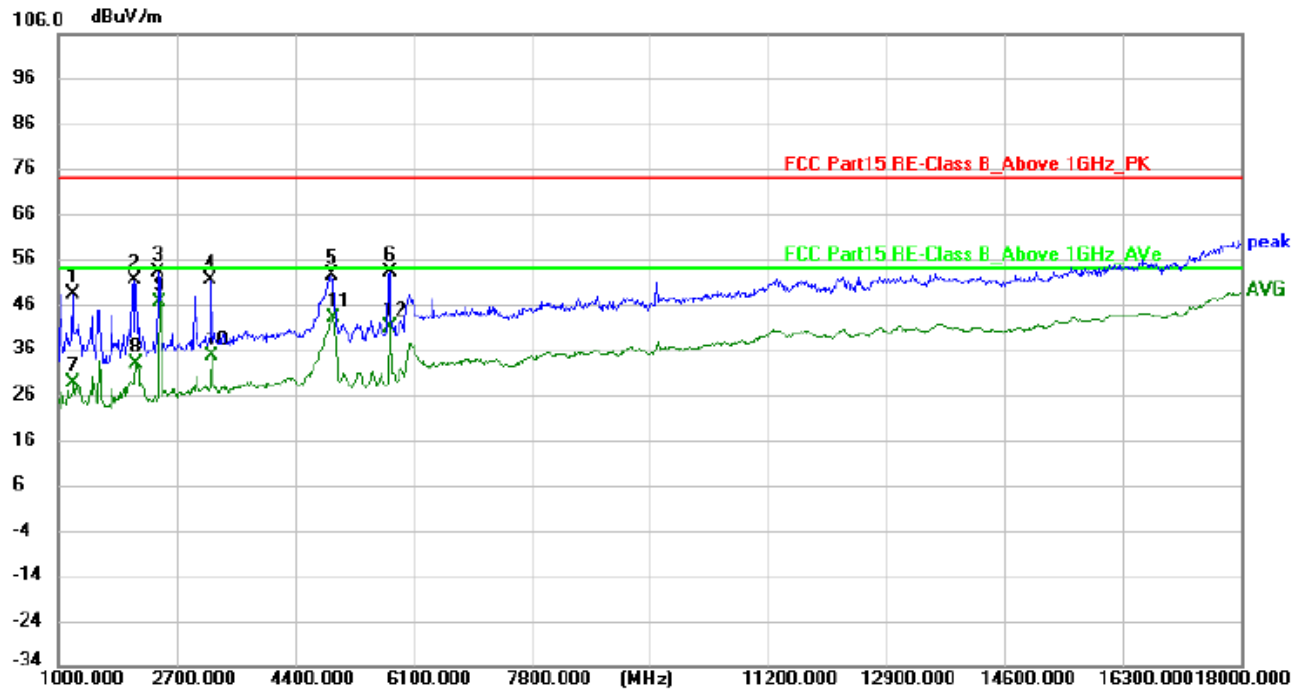
Note: The highest waveform in the figure is Fundamental.

802.11 a, ANT Polarization: Horizontal



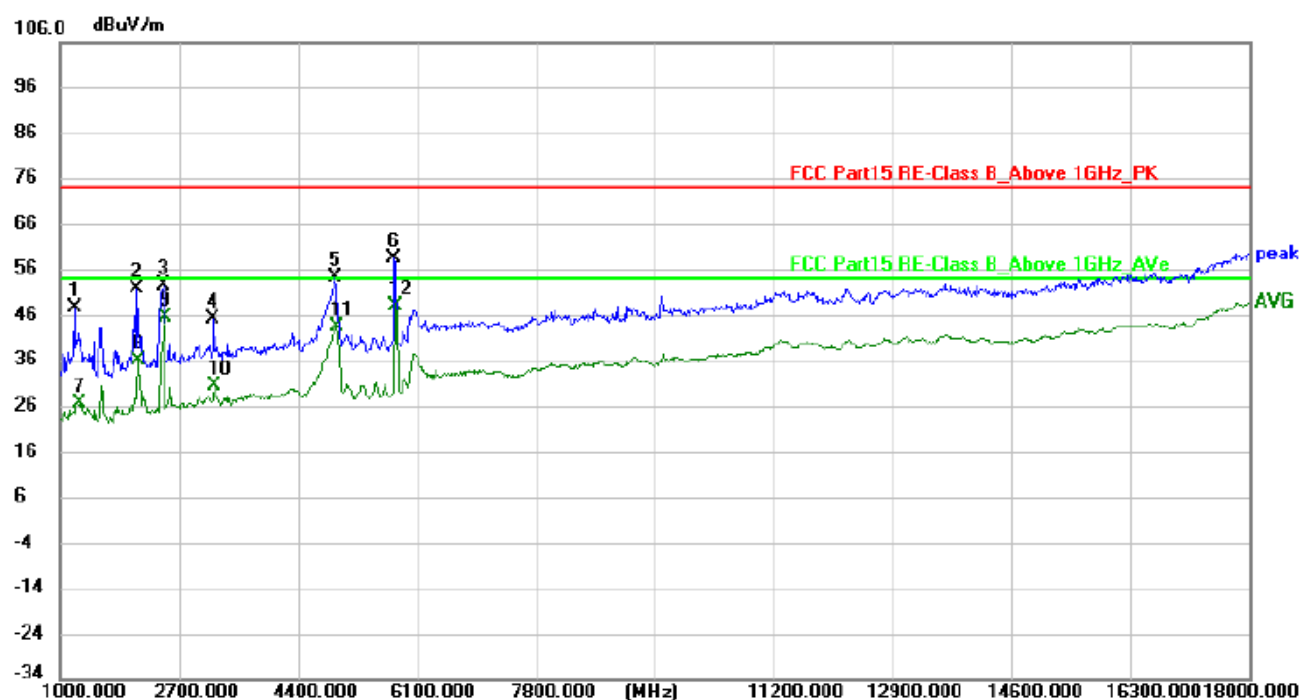
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1476.000	73.42	-19.81	53.61	74.00	-20.39	peak			P	
2	2105.000	75.76	-16.79	58.97	74.00	-15.03	peak			P	
3	2462.000	73.63	-15.44	58.19	74.00	-15.81	peak			P	
4	2955.000	67.29	-12.80	54.49	74.00	-19.51	peak			P	
5	4128.000	55.73	-8.77	46.96	74.00	-27.04	peak			P	
6	5760.000	58.50	-3.70	54.80	74.00	-19.20	peak			P	
7	1493.000	54.69	-19.81	34.88	54.00	-19.12	AVG			P	
8	2122.000	60.62	-16.71	43.91	54.00	-10.09	AVG			P	
9 *	2479.000	61.46	-15.32	46.14	54.00	-7.86	AVG			P	
10	2972.000	48.04	-12.66	35.38	54.00	-18.62	AVG			P	
11	4145.000	39.01	-8.76	30.25	54.00	-23.75	AVG			P	
12	5760.000	45.54	-3.70	41.84	54.00	-12.16	AVG			P	

802.11 a, ANT Polarization: Vertical



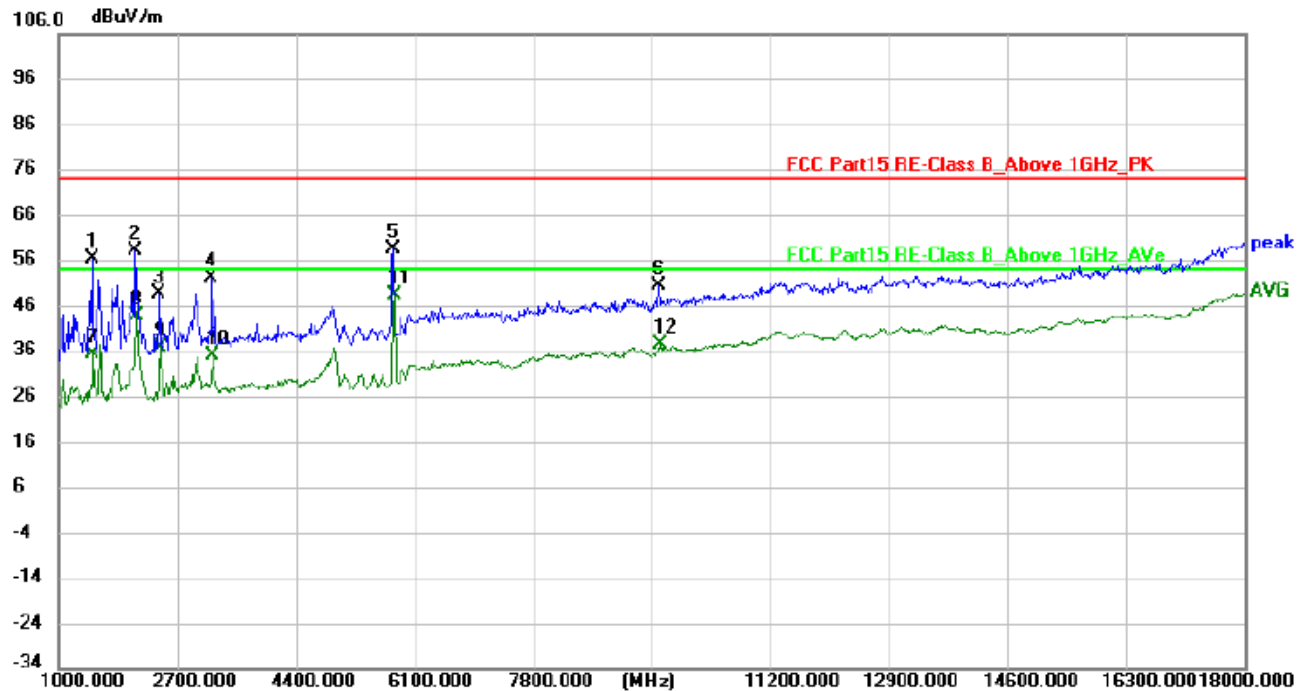
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1204.000	68.64	-20.31	48.33	74.00	-25.67	peak	150	360	P	
2	2105.000	68.35	-16.79	51.56	74.00	-22.44	peak	150	360	P	
3	2445.000	68.72	-15.55	53.17	74.00	-20.83	peak	150	360	P	
4	3193.000	63.19	-11.78	51.41	74.00	-22.59	peak	150	360	P	
5	4927.000	58.19	-5.46	52.73	74.00	-21.27	peak	150	360	P	
6	5760.000	57.16	-3.70	53.46	74.00	-20.54	peak	150	360	P	
7	1221.000	49.04	-20.26	28.78	54.00	-25.22	AVG	150	360	P	
8	2122.000	49.85	-16.71	33.14	54.00	-20.86	AVG	150	360	P	
9 *	2462.000	62.17	-15.44	46.73	54.00	-7.27	AVG	150	360	P	
10	3210.000	46.38	-11.76	34.62	54.00	-19.38	AVG	150	360	P	
11	4944.000	48.69	-5.39	43.30	54.00	-10.70	AVG	150	360	P	
12	5760.000	44.61	-3.70	40.91	54.00	-13.09	AVG	150	360	P	

802.11 n-HT20, ANT Polarization: Vertical



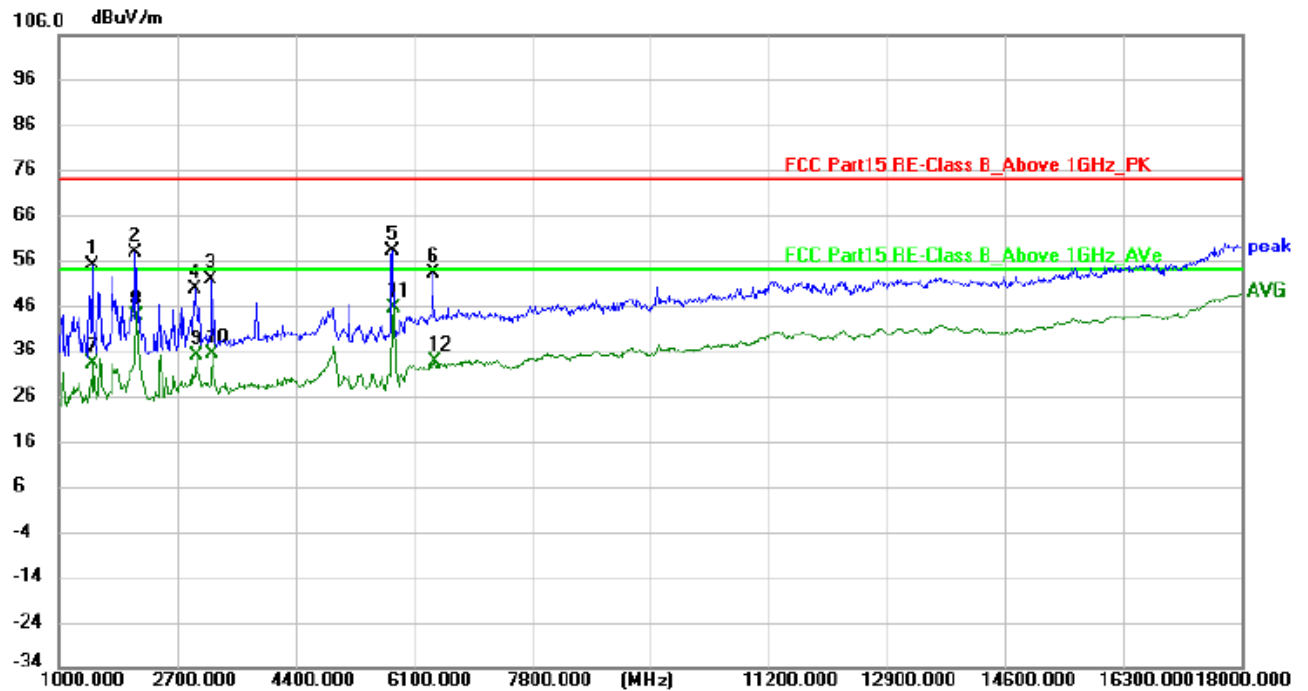
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1204.000	68.03	-20.31	47.72	74.00	-26.28	peak			P	
2	2105.000	68.61	-16.79	51.82	74.00	-22.18	peak			P	
3	2479.000	68.03	-15.32	52.71	74.00	-21.29	peak			P	
4	3193.000	57.02	-11.78	45.24	74.00	-28.76	peak			P	
5	4927.000	59.97	-5.46	54.51	74.00	-19.49	peak			P	
6	5777.000	62.12	-3.62	58.50	74.00	-15.50	peak			P	
7	1272.000	46.78	-20.13	26.65	54.00	-27.35	AVG			P	
8	2122.000	52.97	-16.71	36.26	54.00	-17.74	AVG			P	
9	2496.000	60.79	-15.21	45.58	54.00	-8.42	AVG			P	
10	3210.000	42.49	-11.76	30.73	54.00	-23.27	AVG			P	
11	4944.000	48.76	-5.39	43.37	54.00	-10.63	AVG			P	
12 *	5794.000	51.76	-3.53	48.23	54.00	-5.77	AVG			P	

802.11 n-HT20, ANT Polarization: Vertical



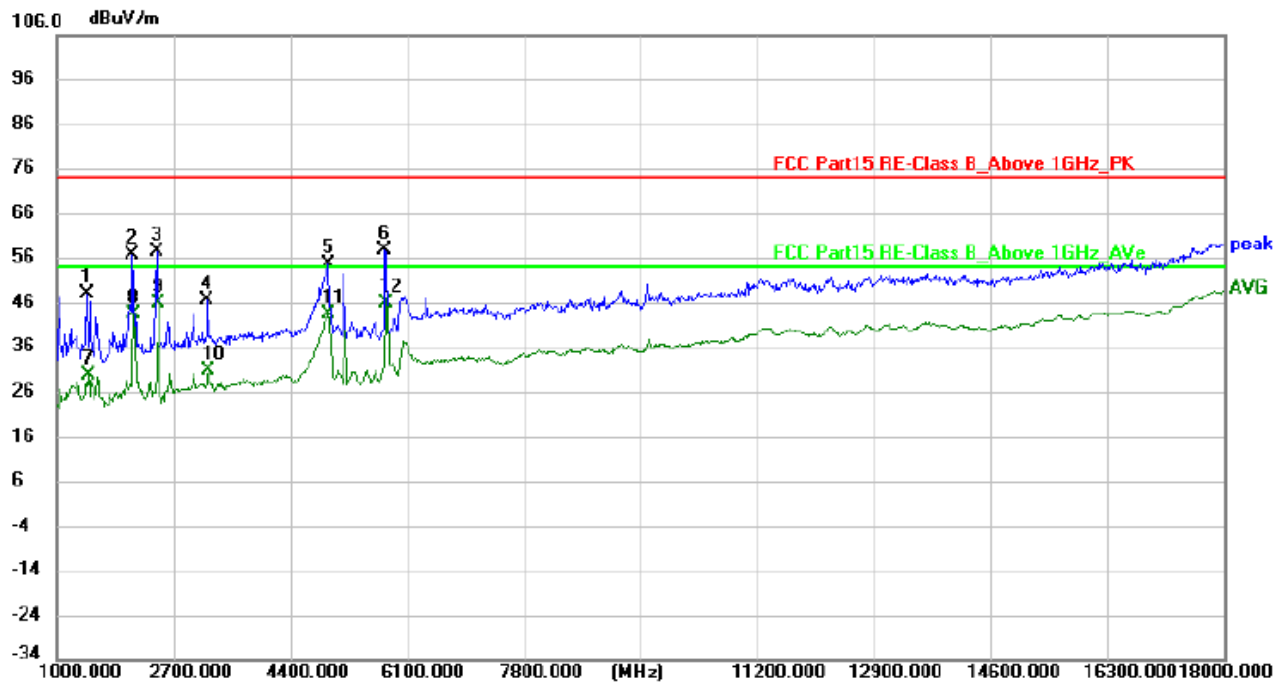
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1476.000	76.24	-19.81	56.43	74.00	-17.57	peak	150	360	P	
2	2105.000	75.07	-16.79	58.28	74.00	-15.72	peak	150	360	P	
3	2445.000	64.28	-15.55	48.73	74.00	-25.27	peak	150	360	P	
4	3193.000	63.91	-11.78	52.13	74.00	-21.87	peak	150	360	P	
5	5794.000	62.08	-3.53	58.55	74.00	-15.45	peak	150	360	P	
6	9602.000	46.25	4.38	50.63	74.00	-23.37	peak	150	360	P	
7	1493.000	55.36	-19.81	35.55	54.00	-18.45	AVG	150	360	P	
8	2122.000	60.72	-16.71	44.01	54.00	-9.99	AVG	150	360	P	
9	2462.000	52.43	-15.44	36.99	54.00	-17.01	AVG	150	360	P	
10	3210.000	47.02	-11.76	35.26	54.00	-18.74	AVG	150	360	P	
11 *	5811.000	51.80	-3.45	48.35	54.00	-5.65	AVG	150	360	P	
12	9619.000	33.29	4.41	37.70	54.00	-16.30	AVG	150	360	P	

802.11 n-HT40, ANT Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1476.000	74.77	-19.81	54.96	74.00	-19.04	peak			P	
2	2105.000	74.56	-16.79	57.77	74.00	-16.23	peak			P	
3	3193.000	63.72	-11.78	51.94	74.00	-22.06	peak			P	
4	2955.000	62.66	-12.80	49.86	74.00	-24.14	peak			P	
5	5794.000	61.72	-3.53	58.19	74.00	-15.81	peak			P	
6	6372.000	54.69	-1.46	53.23	74.00	-20.77	peak			P	
7	1493.000	53.36	-19.81	33.55	54.00	-20.45	AVG			P	
8	2122.000	60.75	-16.71	44.04	54.00	-9.96	AVG			P	
9	2972.000	47.62	-12.66	34.96	54.00	-19.04	AVG			P	
10	3210.000	47.12	-11.76	35.36	54.00	-18.64	AVG			P	
11 *	5811.000	49.13	-3.45	45.68	54.00	-8.32	AVG			P	
12	6406.000	35.12	-1.37	33.75	54.00	-20.25	AVG			P	

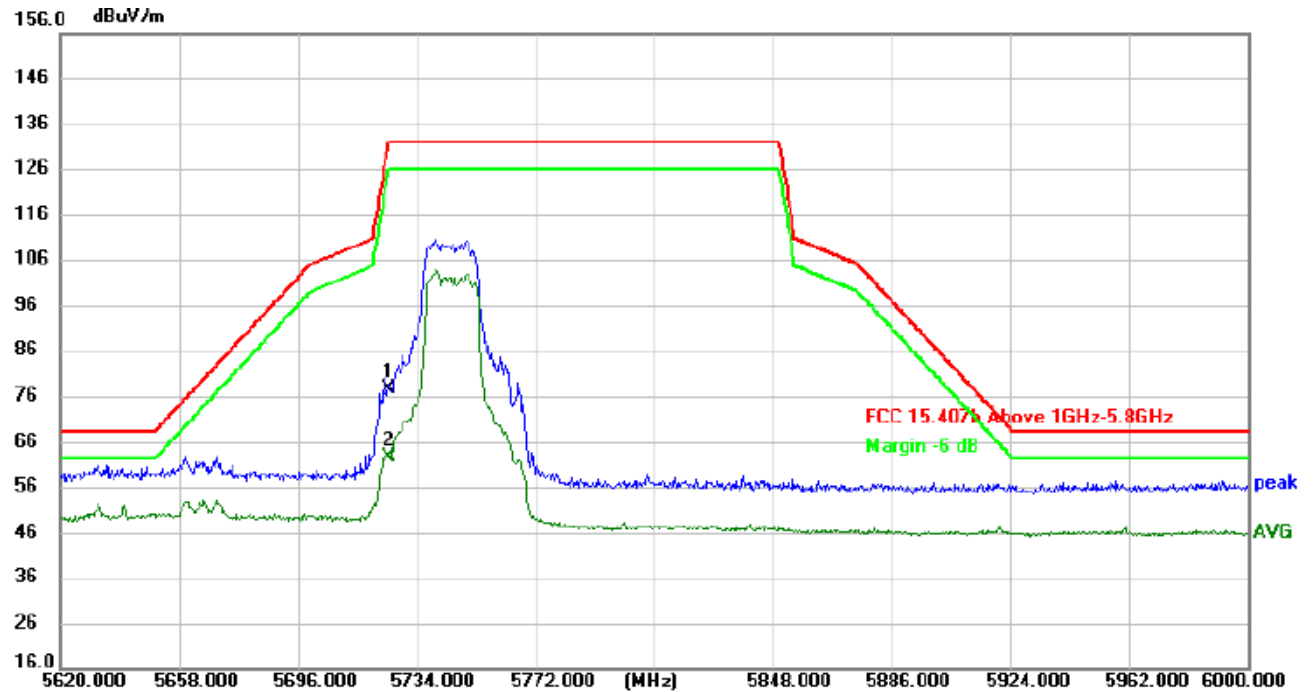
802.11 n-HT40, ANT Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1442.000	67.77	-19.79	47.98	74.00	-26.02	peak	150	360	P	
2	2105.000	73.49	-16.79	56.70	74.00	-17.30	peak	150	360	P	
3	2462.000	72.95	-15.44	57.51	74.00	-16.49	peak	150	360	P	
4	3193.000	58.55	-11.78	46.77	74.00	-27.23	peak	150	360	P	
5	4944.000	60.16	-5.39	54.77	74.00	-19.23	peak	150	360	P	
6	5777.000	61.34	-3.62	57.72	74.00	-16.28	peak	150	360	P	
7	1459.000	49.60	-19.80	29.80	54.00	-24.20	AVG	150	360	P	
8	2122.000	60.16	-16.71	43.45	54.00	-10.55	AVG	150	360	P	
9	2479.000	61.20	-15.32	45.88	54.00	-8.12	AVG	150	360	P	
10	3210.000	42.57	-11.76	30.81	54.00	-23.19	AVG	150	360	P	
11	4961.000	48.78	-5.34	43.44	54.00	-10.56	AVG	150	360	P	
12 *	5794.000	49.61	-3.53	46.08	54.00	-7.92	AVG	150	360	P	

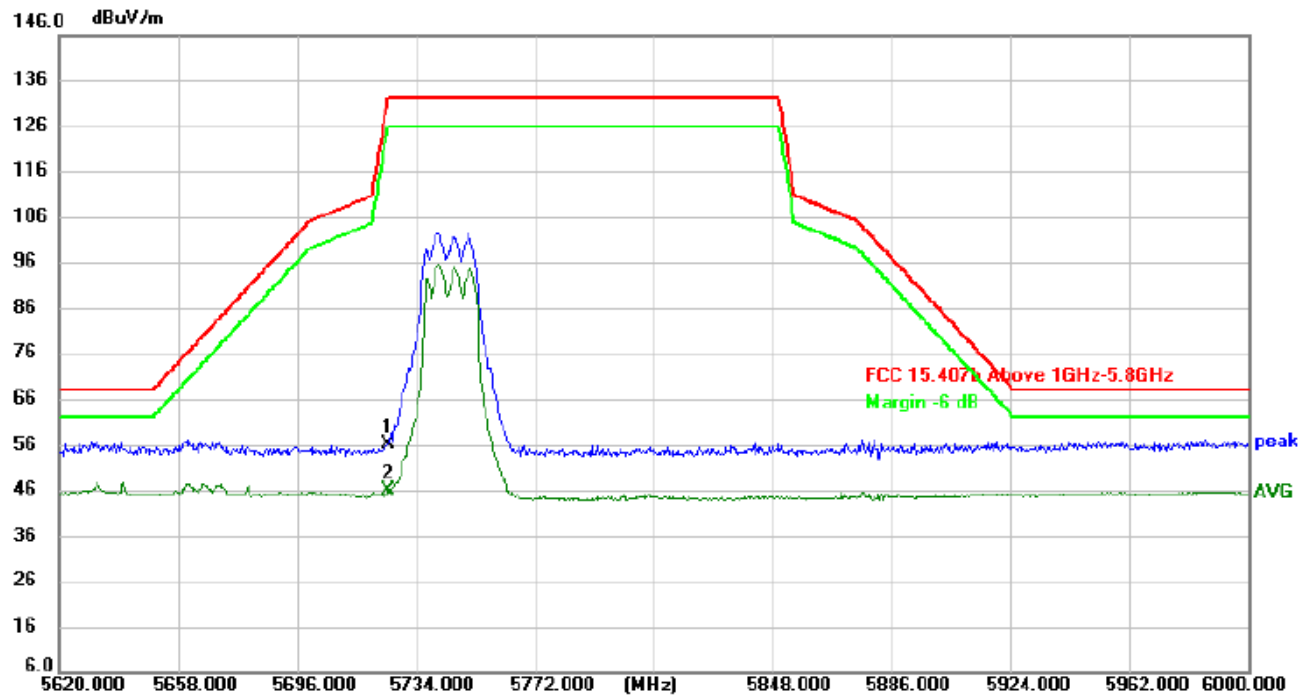
Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

802.11 a 5745MHz, ANT Polarization: Horizontal



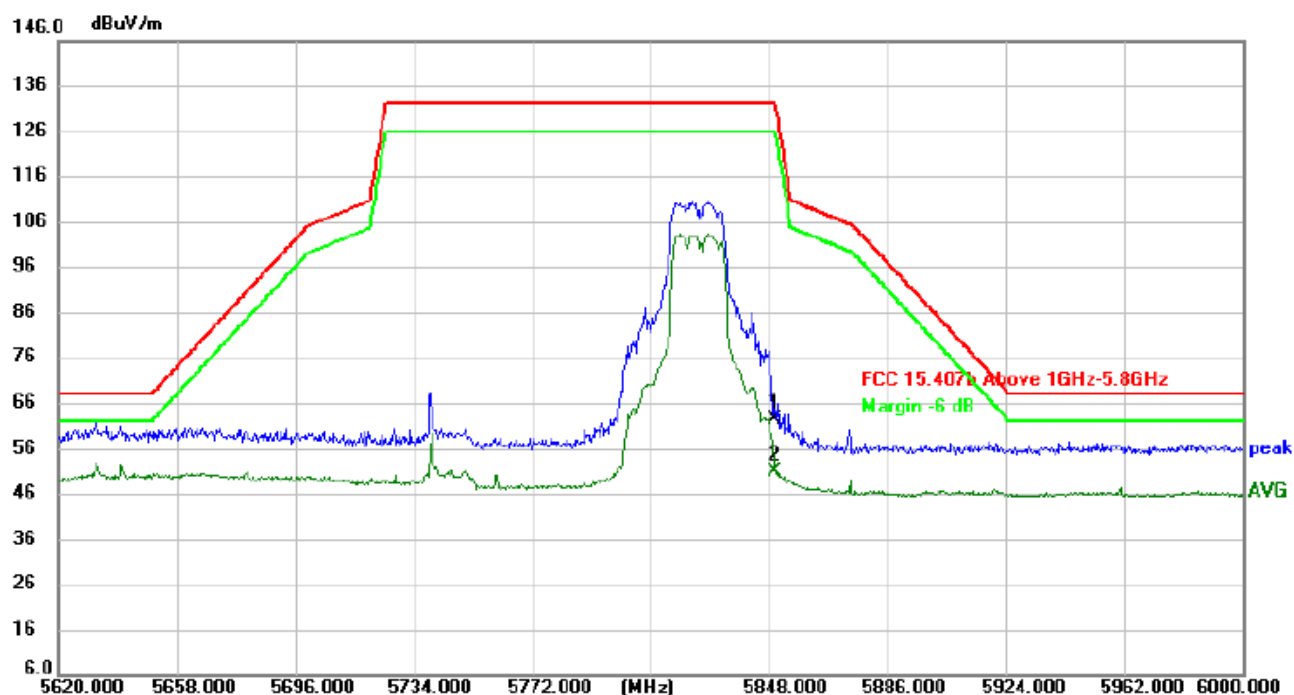
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5725.000	81.57	-3.88	77.69	132.00	-54.31	peak		0	P	
2	5725.000	66.77	-3.88	62.89	132.00	-69.11	AVG		0	P	

802.11 a 5745MHz, ANT Polarization: Vertical



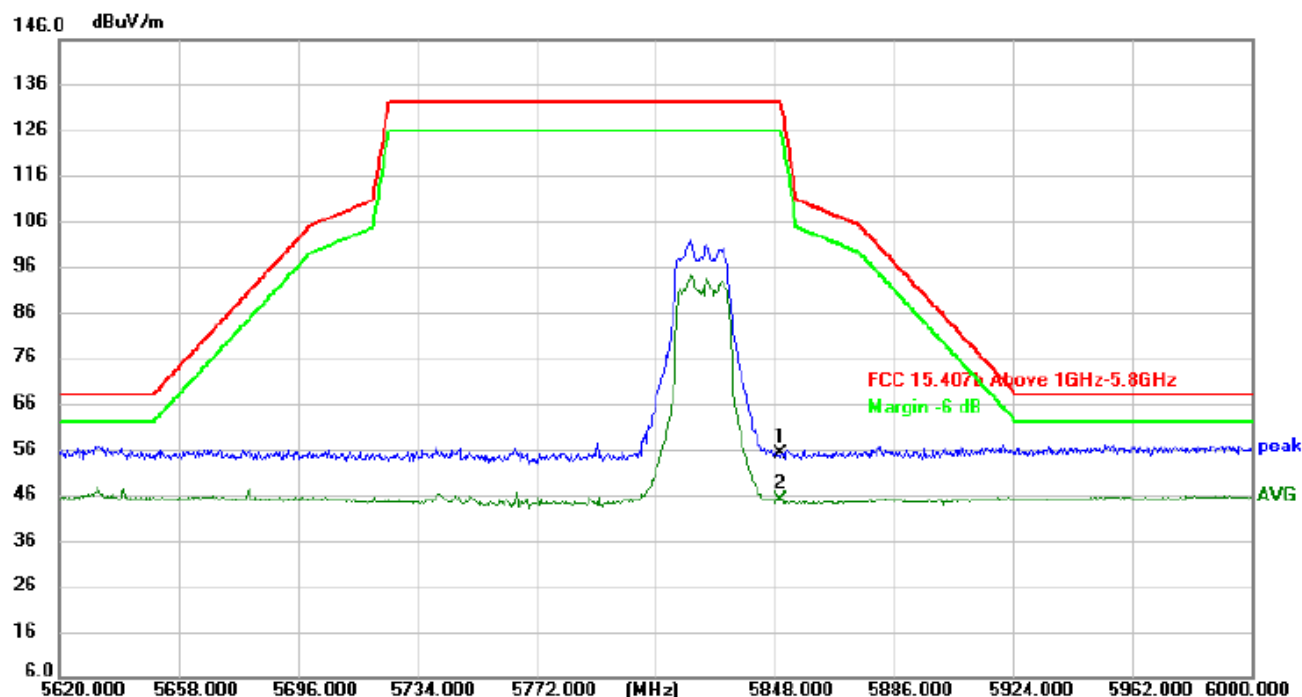
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5725.000	60.16	-3.88	56.28	132.00	-75.72	peak			P	
2	5725.000	49.98	-3.88	46.10	132.00	-85.90	AVG			P	

802.11 a 5825MHz, ANT Polarization: Horizontal



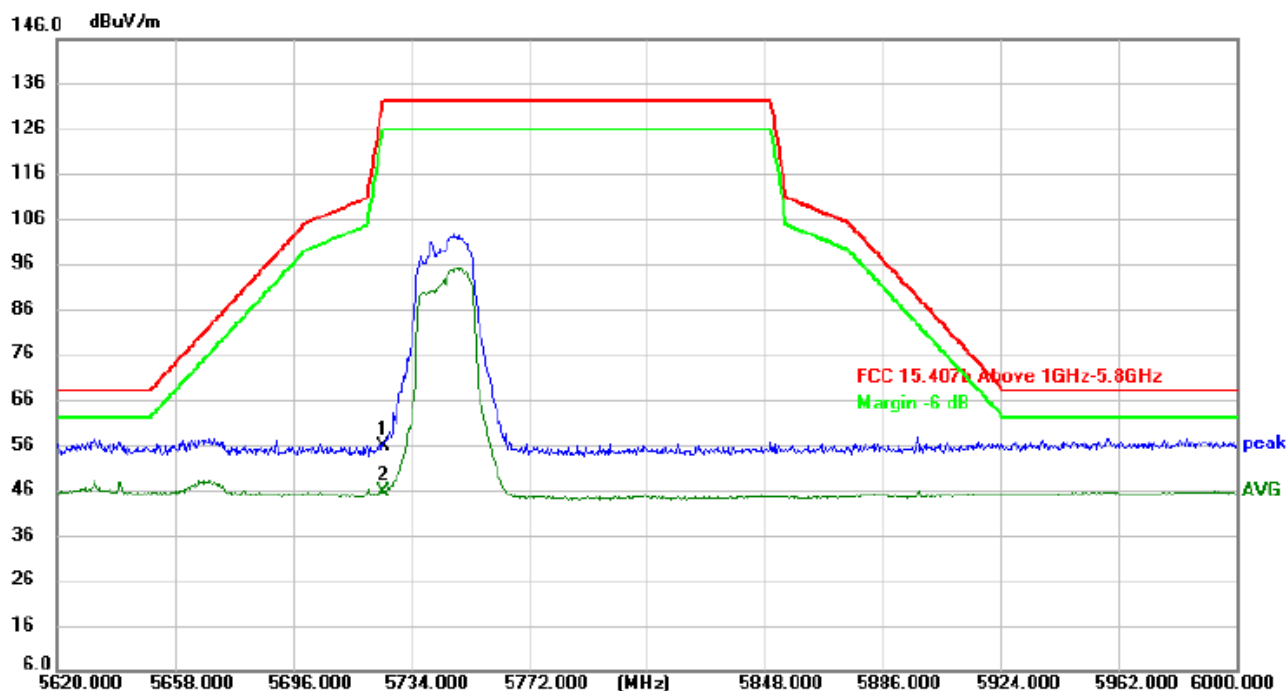
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5850.000	65.92	-3.25	62.67	132.00	-69.33	peak			P	
2	5850.000	54.20	-3.25	50.95	132.00	-81.05	AVG			P	

802.11 a 5825MHz, ANT Polarization: Vertical



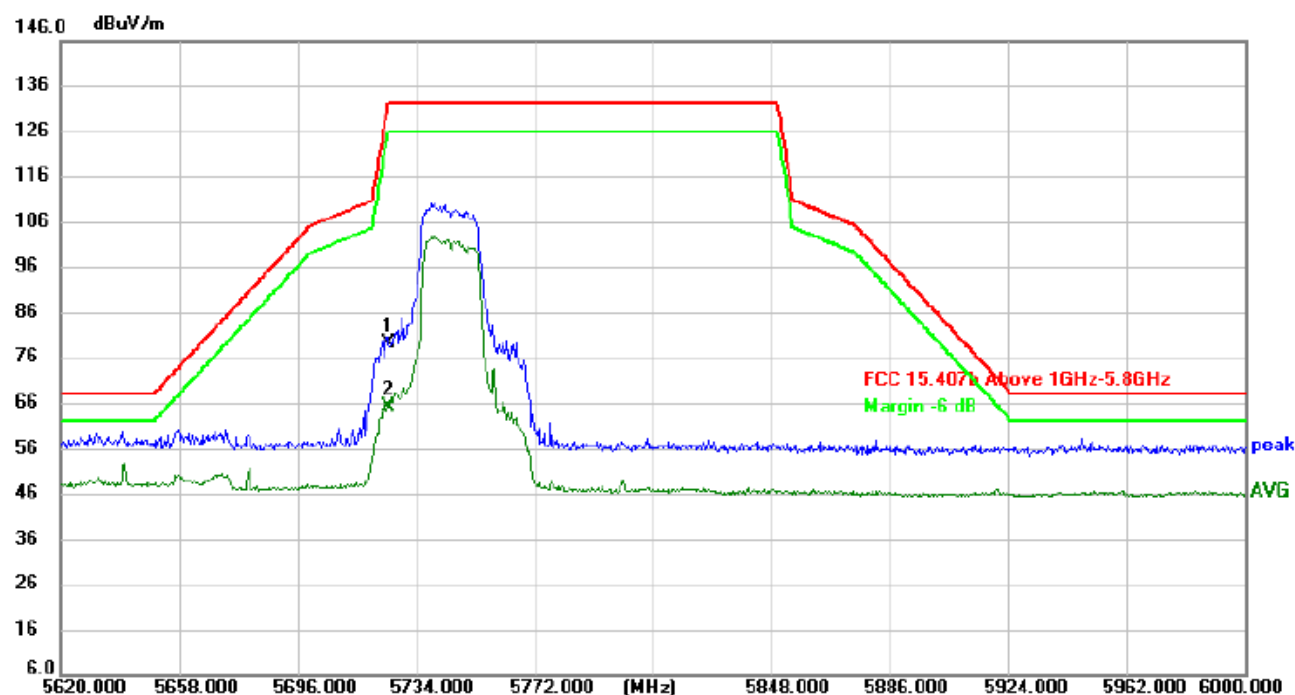
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5850.000	58.30	-3.25	55.05	132.00	-76.95	peak		360	P	
2	5850.000	48.21	-3.25	44.96	132.00	-87.04	AVG		360	P	

802.11 n-HT20 5745MHz, ANT Polarization: Horizontal



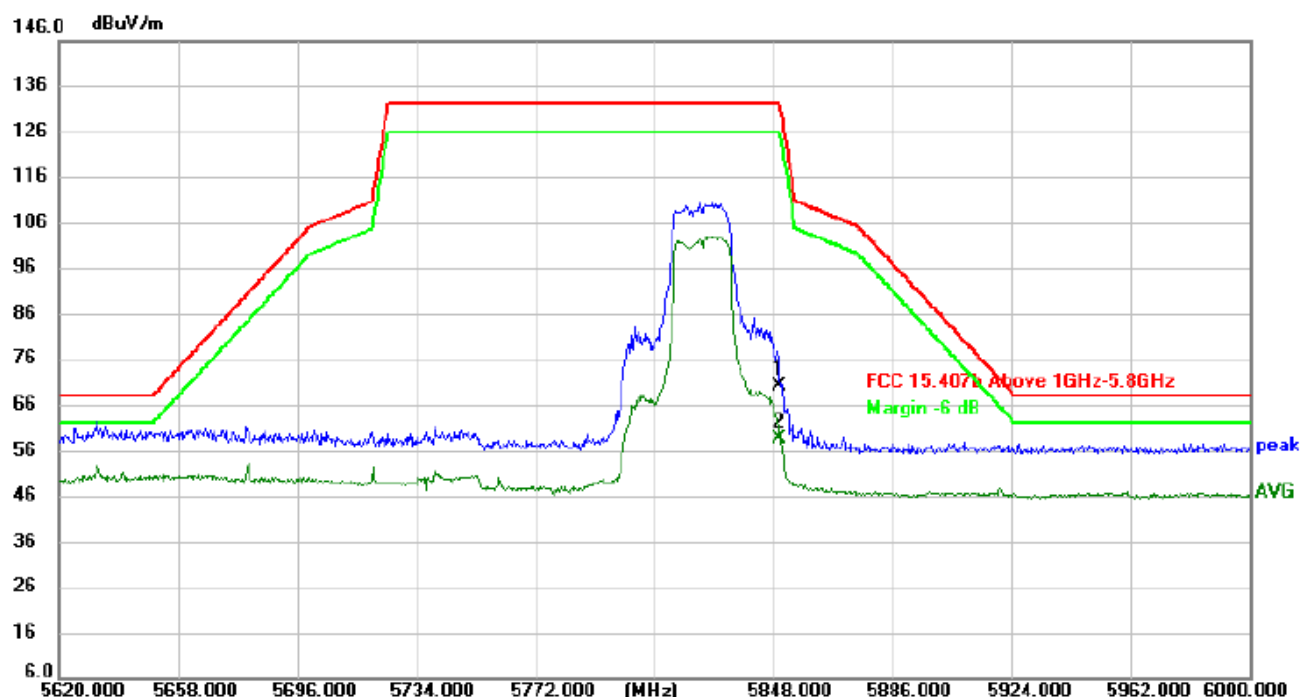
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5725.000	59.64	-3.88	55.76	132.00	-76.24	peak		360	P	
2	5725.000	49.63	-3.88	45.75	132.00	-86.25	AVG		360	P	

802.11 n-HT20 5745MHz, ANT Polarization: Vertical



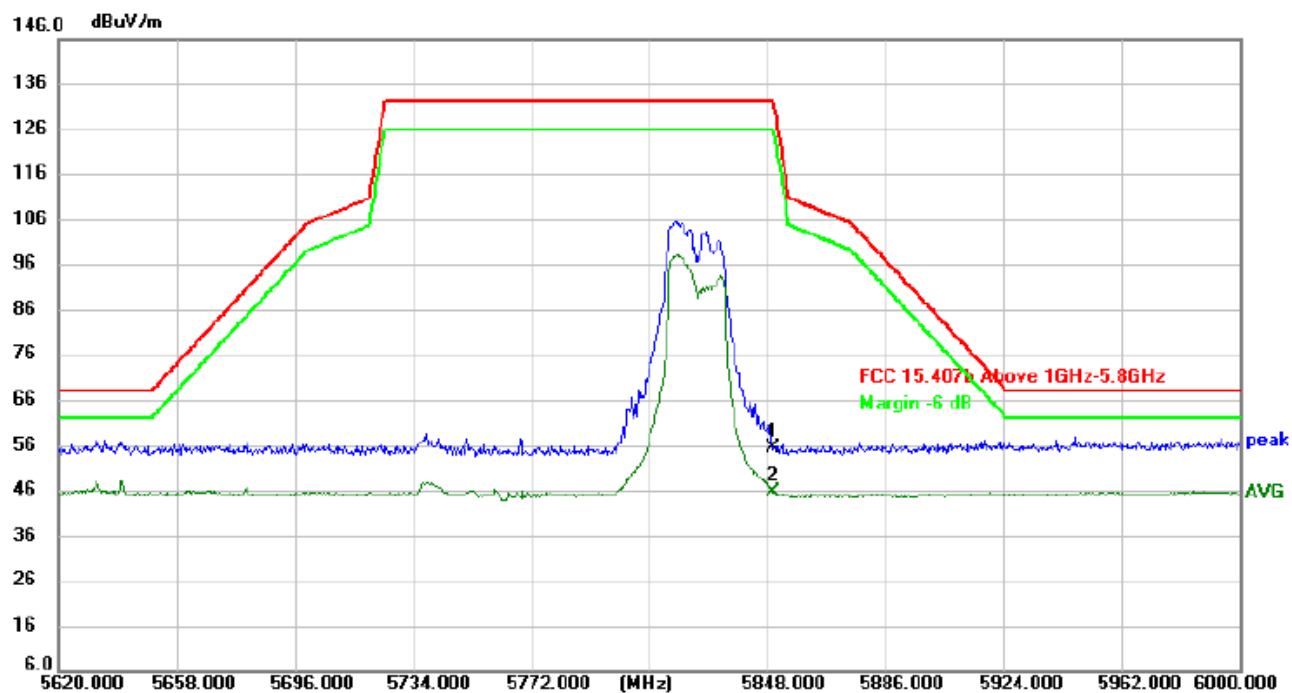
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5725.000	83.31	-3.88	79.43	132.00	-52.57	peak		0	P	
2	5725.000	69.32	-3.88	65.44	132.00	-66.56	AVG		0	P	

802.11 n-HT20 582MHz, ANT Polarization: Horizontal



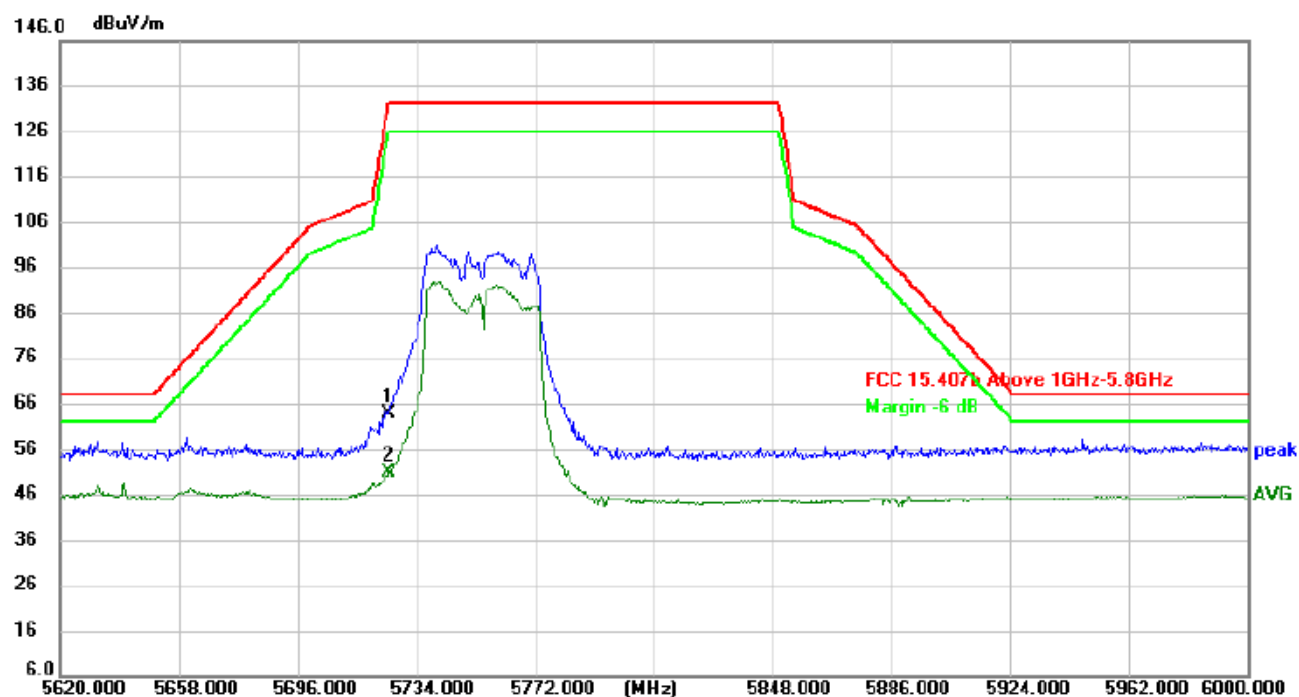
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5850.000	73.41	-3.25	70.16	132.00	-61.84	peak			P	
2	5850.000	62.06	-3.25	58.81	132.00	-73.19	AVG			P	

802.11 n-HT20 5825MHz, ANT Polarization: Vertical



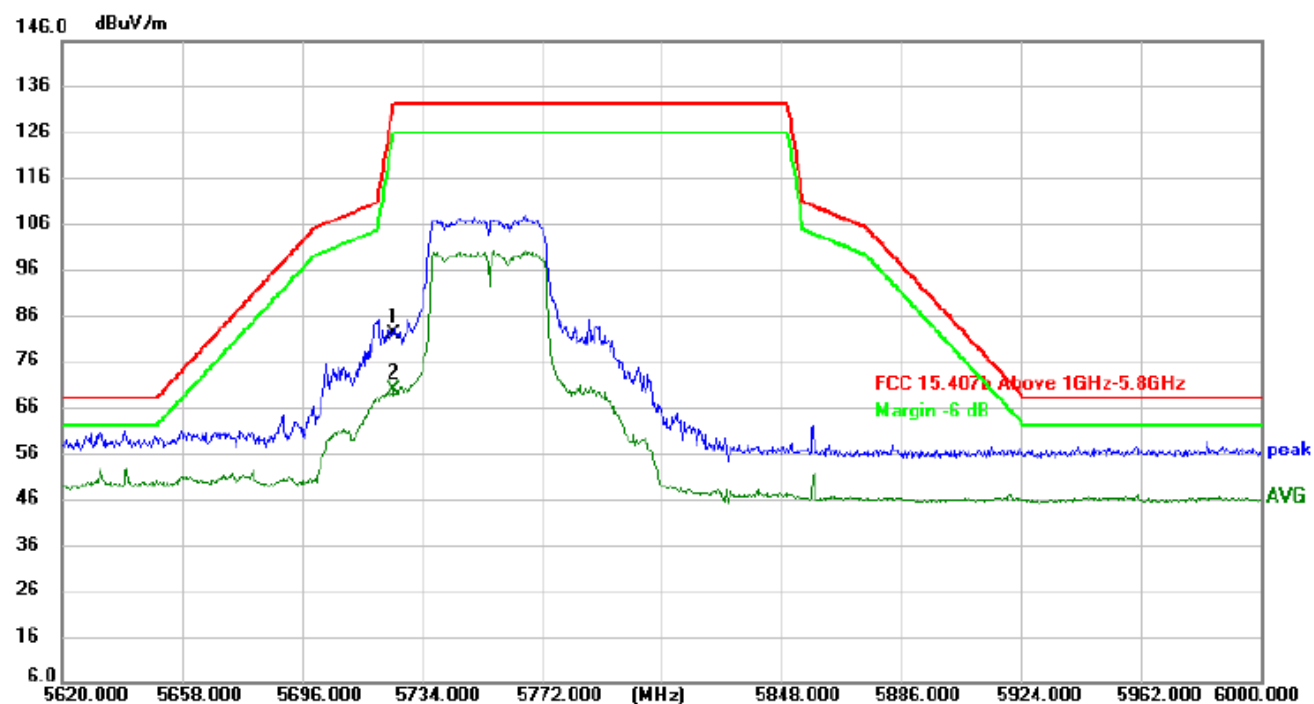
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5850.000	58.83	-3.25	55.58	132.00	-76.42	peak		0	P	
2	5850.000	48.88	-3.25	45.63	132.00	-86.37	AVG		0	P	

802.11 n-HT40 5755MHz, ANT Polarization: Horizontal



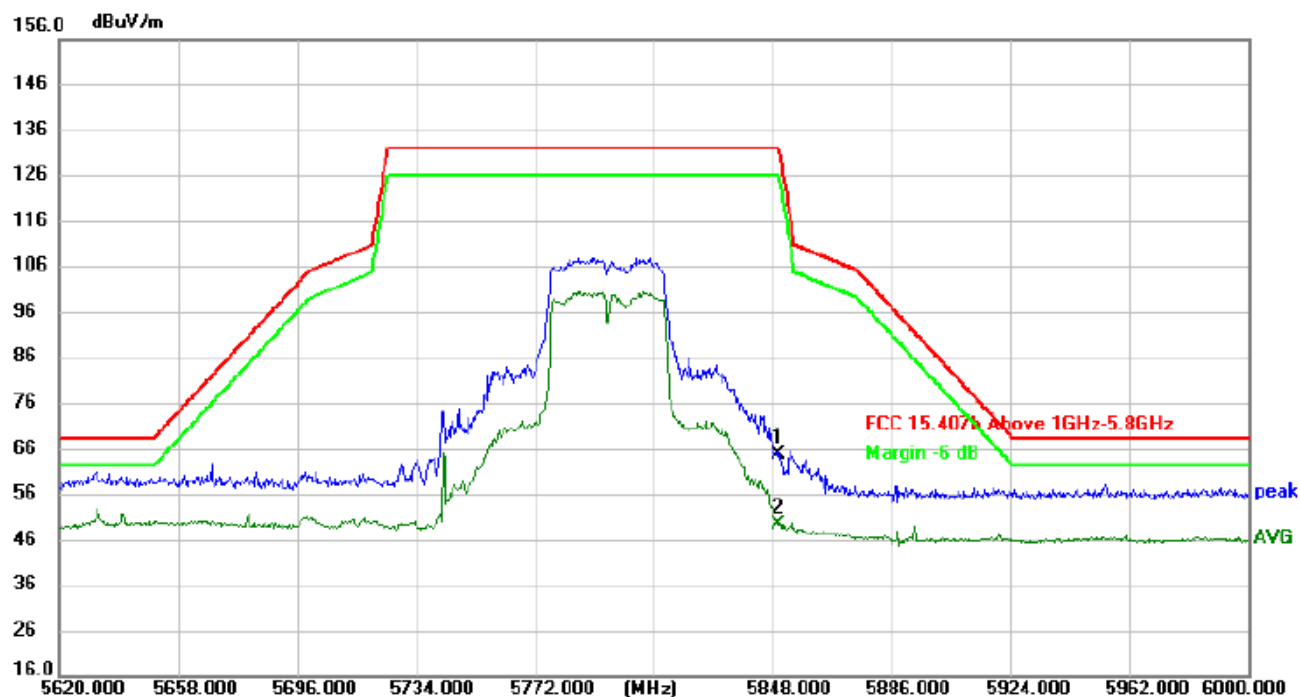
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5725.000	67.93	-3.88	64.05	132.00	-67.95	peak		360	P	
2	5725.000	54.83	-3.88	50.95	132.00	-81.05	AVG		360	P	

802.11 n-HT40 5755MHz, ANT Polarization: Vertical



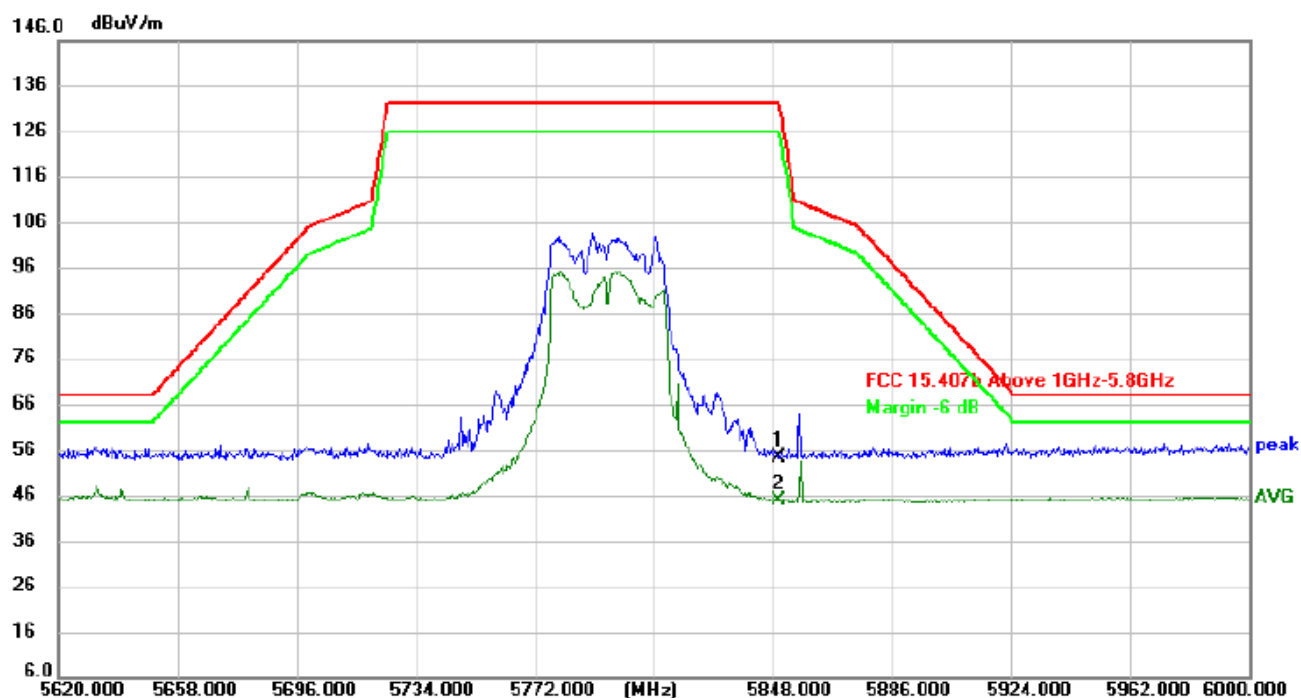
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5725.000	86.18	-3.88	82.30	132.00	-49.70	peak		0	P	
2	5725.000	73.70	-3.88	69.82	132.00	-62.18	AVG		0	P	

802.11 n-HT40 5795MHz, ANT Polarization: Horizontal



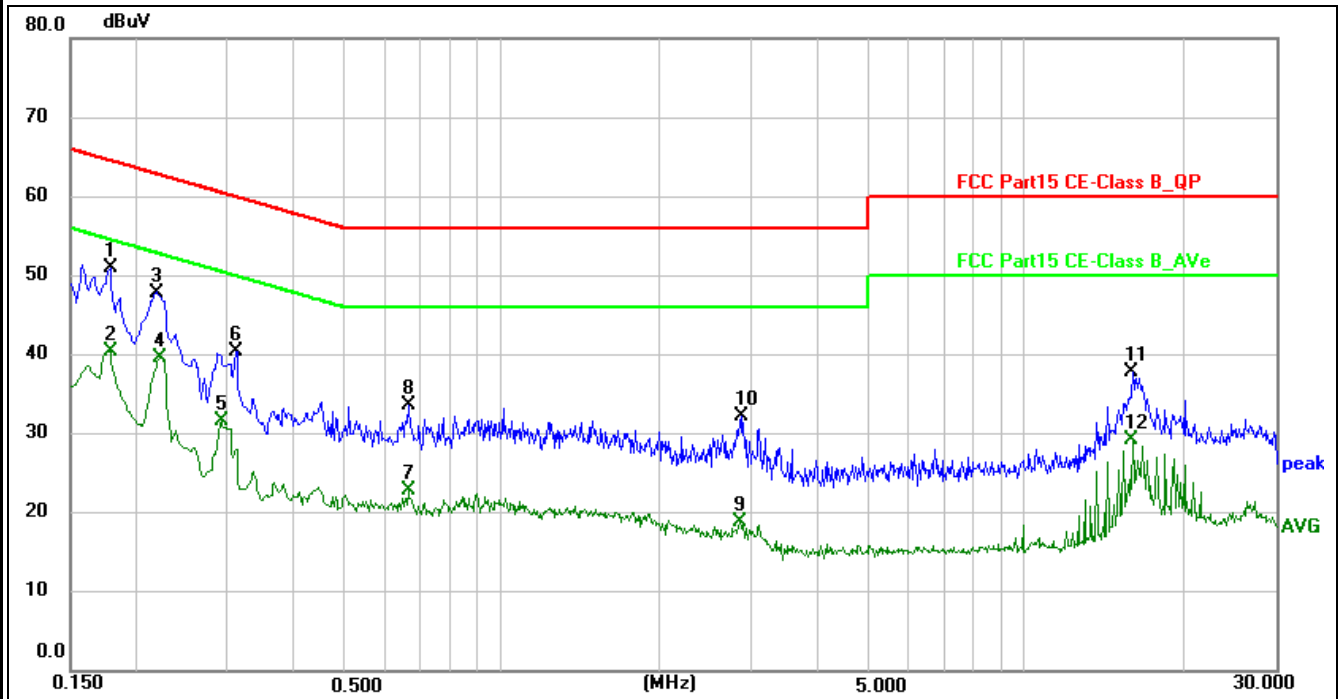
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5850.000	68.01	-3.25	64.76	132.00	-67.24	peak		0	P	
2	5850.000	52.60	-3.25	49.35	132.00	-82.65	AVG		0	P	

802.11 n-HT40 5795MHz, ANT Polarization: Vertical



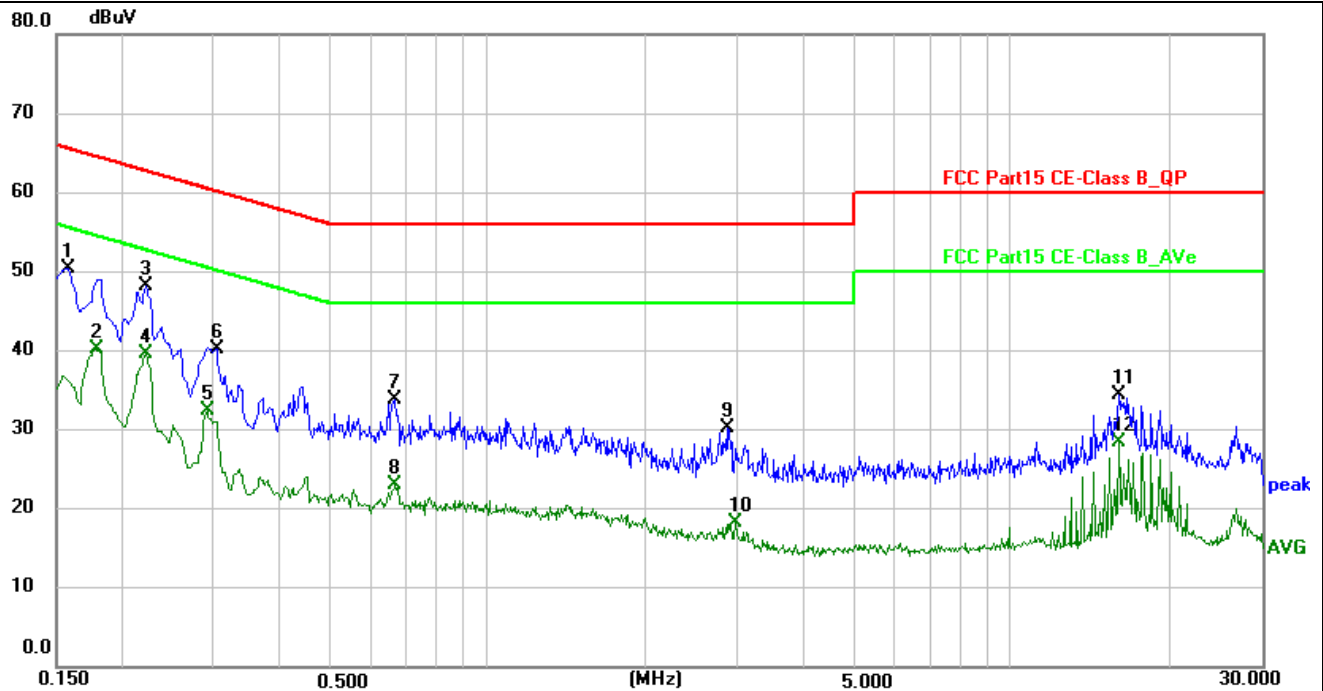
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5850.000	57.89	-3.25	54.64	132.00	-77.36	peak		0	P	
2	5850.000	48.43	-3.25	45.18	132.00	-86.82	AVG		0	P	

Appendix B.8: Test Plots of Conducted Emission on AC Mains



Site:		Phase:N	Temperature(C):22(C)
Limit:	FCC Part15 CE-Class B_QP		Humidity(%):51%
EUT:	Portable Recording and Broadcasting Host	Test Time:	2024/8/2 10:06:07
M/N.:	WX-AX60	Power Rating:	AC120V/60Hz
Mode:	On, Wireless link	Test Engineer:	Neou

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1780	31.65	19.33	50.98	64.58	-13.60	peak
2	0.1780	21.13	19.33	40.46	54.58	-14.12	AVG
3	0.2180	28.55	19.33	47.88	62.89	-15.01	peak
4 *	0.2220	20.32	19.33	39.65	52.74	-13.09	AVG
5	0.2900	12.27	19.37	31.64	50.52	-18.88	AVG
6	0.3100	20.96	19.37	40.33	59.97	-19.64	peak
7	0.6620	3.36	19.39	22.75	46.00	-23.25	AVG
8	0.6660	14.30	19.39	33.69	56.00	-22.31	peak
9	2.8460	-0.68	19.45	18.77	46.00	-27.23	AVG
10	2.8580	12.80	19.45	32.25	56.00	-23.75	peak
11	16.0459	18.16	19.57	37.73	60.00	-22.27	peak
12	16.0459	9.67	19.57	29.24	50.00	-20.76	AVG



Site:		Phase:N	Temperature(C):22(C)
Limit:	FCC Part15 CE-Class B_QP		Humidity(%):51%
EUT:	Portable Recording and Broadcasting Host	Test Time:	2024/8/2 10:06:07
M/N.:	WX-AX60	Power Rating:	AC120V/60Hz
Mode:	On, Wireless link	Test Engineer:	Neou

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	31.09	19.32	50.41	65.57	-15.16	peak
2	0.1780	20.86	19.32	40.18	54.58	-14.40	AVG
3	0.2220	28.84	19.32	48.16	62.74	-14.58	peak
4 *	0.2220	20.24	19.32	39.56	52.74	-13.18	AVG
5	0.2900	13.07	19.33	32.40	50.52	-18.12	AVG
6	0.3020	20.83	19.33	40.16	60.19	-20.03	peak
7	0.6660	14.50	19.39	33.89	56.00	-22.11	peak
8	0.6660	3.71	19.39	23.10	46.00	-22.90	AVG
9	2.8620	10.72	19.43	30.15	56.00	-25.85	peak
10	2.9700	-1.16	19.43	18.27	46.00	-27.73	AVG
11	16.0500	14.87	19.59	34.46	60.00	-25.54	peak
12	16.0500	8.81	19.59	28.40	50.00	-21.60	AVG

Appendix C: Test Results of 5.2GHz & 5.3GHz & 5.6GHz WIFI

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Appendix C.1: Test Results of Output Power

Conducted output power

Mode	Channel	Corr'd Value Ant. 0 (dBm)	Corr'd Value Ant. 1 (dBm)	Ant. MIMO (dBm)	Ant. MIMO (W)	Limit (dBm)	Result
IEEE 802.11a	36	5.31	3.6	7.549	0.0057	≤24	PASS
	40	5.55	3.13	7.517	0.0056	≤24	PASS
	48	5.19	2.59	7.092	0.0051	≤24	PASS
	52	9.24	5.5	10.771	0.0119	≤24	PASS
	60	7.47	6.92	10.214	0.0105	≤24	PASS
	64	6.57	6.24	9.418	0.0087	≤24	PASS
	100	3.94	3.62	6.793	0.0048	≤24	PASS
	120	3.5	5.14	7.407	0.0055	≤24	PASS
IEEE 802.11n_20	140	6.46	6.66	9.571	0.0091	≤24	PASS
	36	5.6	3.6	7.724	0.0059	≤24	PASS
	40	4.94	3.13	7.139	0.0052	≤24	PASS
	48	5.71	2.59	7.435	0.0055	≤24	PASS
	52	8.69	5.7	10.458	0.0119	≤24	PASS
	60	7.54	6.98	10.279	0.0119	≤24	PASS
	64	6.67	6.37	9.533	0.0097	≤24	PASS
	100	3.9	3.65	6.787	0.0099	≤24	PASS
IEEE 802.11n_40	120	5.56	5.24	8.413	0.0101	≤24	PASS
	140	6.46	6.8	9.644	0.0101	≤24	PASS
	38	5.19	2.28	6.985	0.0050	≤24	PASS
	46	4.92	1.51	6.552	0.0045	≤24	PASS
	54	8.83	5.67	10.542	0.0113	≤24	PASS
	62	7.0	6.31	9.679	0.0093	≤24	PASS
	102	5.29	3.75	7.598	0.0058	≤24	PASS
	118	7.63	3.87	9.155	0.0082	≤24	PASS
IEEE 802.11ac_20	134	6.98	5.77	9.427	0.0088	≤24	PASS
	36	10.57	8.66	12.729	0.0187	≤24	PASS
	40	10.48	8.16	12.483	0.0177	≤24	PASS
	48	12.01	8.61	13.645	0.0231	≤24	PASS
	52	8.15	4.8	9.801	0.0096	≤24	PASS
	60	8.59	7.7	11.178	0.0131	≤24	PASS
	64	5.33	4.5	7.945	0.0062	≤24	PASS
	100	6.25	4.84	8.612	0.0073	≤24	PASS
IEEE 802.11ac_40	120	4.2	6.63	8.593	0.0072	≤24	PASS
	140	8.34	8.04	11.203	0.0132	≤24	PASS
	38	9.76	7.3	11.712	0.0148	≤24	PASS
	46	10.63	7.63	12.394	0.0174	≤24	PASS
	54	2.63	0.07	4.546	0.0028	≤24	PASS
	62	2.74	0.76	4.872	0.0031	≤24	PASS
	102	5.71	4.8	8.289	0.0067	≤24	PASS
	118	7.9	3.92	9.361	0.0086	≤24	PASS
IEEE 802.11ac_80	134	7.22	3.76	8.836	0.0076	≤24	PASS
	42	9.16	6.49	11.037	0.0127	≤24	PASS
	58	10.2	5.63	11.501	0.0141	≤24	PASS
	106	11.93	9.69	13.963	0.0249	≤24	PASS
	122	6.19	6.49	9.353	0.0086	≤24	PASS

ISED EIRP

Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Ant. MIMO (dBm)	Ant. MIMO (W)	Limit (dBm)	Result
IEEE 802.11a	36	7.89	6.18	10.129	0.0103	≤22.20	PASS
	40	8.12	5.71	10.090	0.0102	≤22.20	PASS
	48	7.77	5.17	9.672	0.0093	≤22.20	PASS
	52	11.82	8.08	13.351	0.0216	≤27	PASS
	60	10.05	9.5	12.794	0.0190	≤27	PASS
	64	9.15	8.82	11.998	0.0158	≤27	PASS

	100	7.21	6.89	10.063	0.0101	≤27	PASS
	120	6.77	8.41	10.677	0.0117	≤27	PASS
	140	9.73	9.93	12.841	0.0192	≤27	PASS
IEEE 802.11n_20	36	8.18	5.96	10.221	0.0105	≤22.20	PASS
	40	7.52	5.39	9.595	0.0091	≤22.20	PASS
	48	8.29	4.87	9.919	0.0098	≤22.20	PASS
	52	11.27	8.28	13.038	0.0201	≤27	PASS
	60	10.12	9.56	12.859	0.0193	≤27	PASS
	64	9.25	8.95	12.113	0.0163	≤27	PASS
	100	7.17	6.92	10.057	0.0101	≤27	PASS
	120	8.83	8.51	11.683	0.0147	≤27	PASS
IEEE 802.11n_40	140	9.73	10.07	12.914	0.0196	≤27	PASS
	38	7.77	4.86	9.565	0.0090	≤22.20	PASS
	46	7.5	4.09	9.132	0.0082	≤22.20	PASS
	54	11.41	8.25	13.122	0.0205	≤27	PASS
	62	9.58	8.89	12.259	0.0168	≤27	PASS
	102	8.56	7.02	10.868	0.0122	≤27	PASS
	118	10.9	7.14	12.425	0.0175	≤27	PASS
	134	9.73	9.04	12.409	0.0174	≤27	PASS
IEEE 802.11ac_20	36	13.15	11.24	15.309	0.0340	≤22.20	PASS
	40	13.06	10.74	15.063	0.0321	≤22.20	PASS
	48	14.59	11.19	16.225	0.0419	≤22.20	PASS
	52	10.73	7.38	12.381	0.0173	≤27	PASS
	60	11.17	10.28	13.758	0.0238	≤27	PASS
	64	7.91	7.08	10.525	0.0113	≤27	PASS
	100	9.52	8.11	11.882	0.0154	≤27	PASS
	120	7.47	9.9	11.863	0.0154	≤27	PASS
IEEE 802.11ac_40	140	11.61	11.30	14.468	0.0280	≤27	PASS
	38	12.34	9.87	14.289	0.0268	≤22.20	PASS
	46	13.21	10.21	14.974	0.0314	≤22.20	PASS
	54	5.21	2.65	7.126	0.0052	≤27	PASS
	62	5.32	3.34	7.452	0.0056	≤27	PASS
	102	8.98	7.18	11.183	0.0131	≤27	PASS
	118	11.17	7.18	12.628	0.0183	≤27	PASS
	134	10.49	7.03	12.106	0.0162	≤27	PASS
IEEE 802.11ac_80	42	11.74	9.07	13.617	0.0230	≤22.20	PASS
	58	12.78	8.21	14.081	0.0256	≤27	PASS
	106	15.2	12.95	17.229	0.0528	≤27	PASS
	122	9.46	14.9	15.992	0.0397	≤27	PASS

Appendix C.2: Test Results of 99% Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	36	0	5180	16.606
	40		5200	19.350
	48		5240	16.508
	52		5260	16.544
	60		5300	16.597
	64		5320	16.644
	100		5500	16.514
	120		5600	16.386
	140		5700	16.600
IEEE 802.11n_20	36		5180	17.762
	40		5200	17.770
	48		5240	17.712
	52		5260	17.707
	60		5300	17.728
	64		5320	17.813
	100		5500	17.744
	120		5600	17.767
	140		5700	17.570
IEEE 802.11n_40	38		5190	36.550
	46		5230	36.463
	54		5270	36.443
	62		5310	36.447
	102		5510	36.528
	118		5590	36.537
	134		5670	36.128
IEEE 802.11ac_20	36		5180	17.934
	40		5200	17.938
	48		5240	17.811
	52		5260	17.826
	60		5300	17.800
	64		5320	17.902
	100		5500	17.884
	120		5600	17.732
IEEE 802.11ac_40	140		5700	17.594
	38		5190	36.421
	46		5230	36.473
	54		5270	36.427
	62		5310	36.384
	102		5510	36.450
	118		5590	36.430
IEEE 802.11ac_80	134		5670	35.949
	42		5210	75.815
	58		5290	75.161
	106		5530	75.926
	122		5610	75.504

Test Graphs



IEEE 802.11a Channel 36 20MHz Antenna 0



IEEE 802.11a Channel 40 20MHz Antenna 0



IEEE 802.11a Channel 48 20MHz Antenna 0



IEEE 802.11a Channel 52 20MHz Antenna 0



IEEE 802.11a Channel 60 20MHz Antenna 0

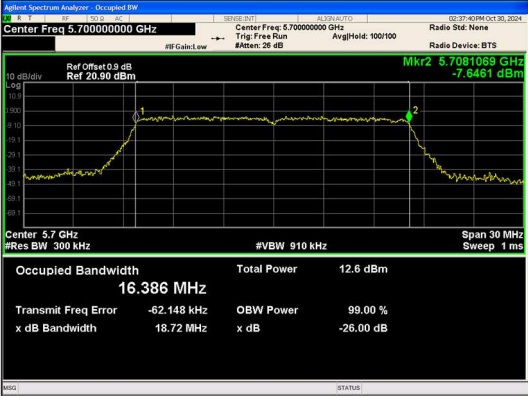
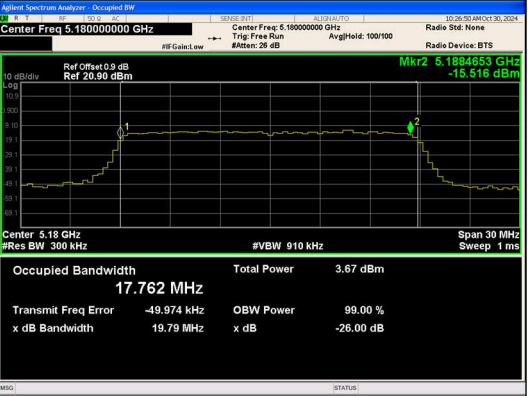
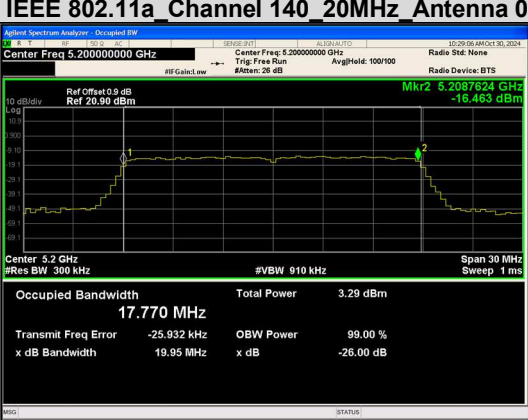
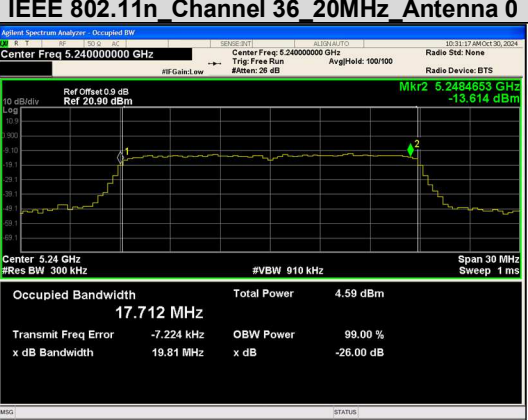
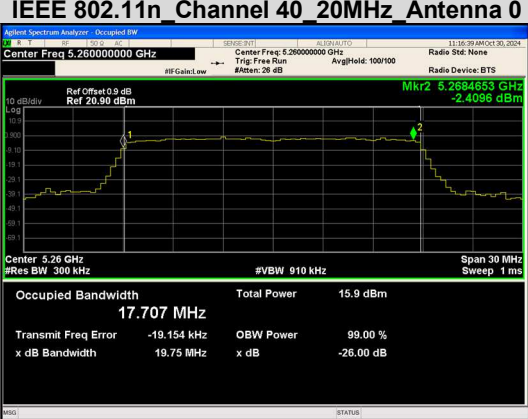
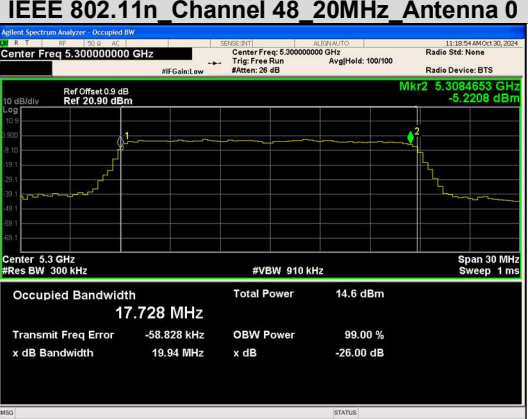
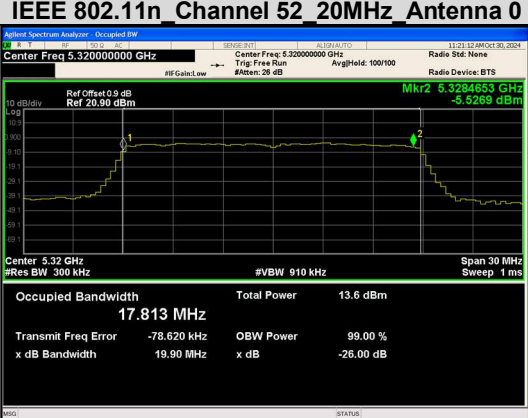
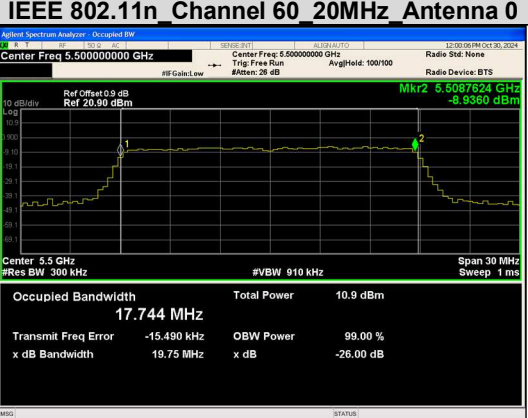


IEEE 802.11a Channel 64 20MHz Antenna 0



IEEE 802.11a Channel 100 20MHz Antenna 0

IEEE 802.11a Channel 120 20MHz Antenna 0

 IEEE 802.11a Channel 140 20MHz Antenna 0 Center Freq: 5.700000000 GHz Mkr2: 5.7091069 GHz -7.6461 dBm Occupied Bandwidth: 16.386 MHz Total Power: 12.6 dBm Transmit Freq Error: -62.148 kHz OBW Power: 99.00 % x dB Bandwidth: 18.72 MHz x dB: -26.00 dB	 IEEE 802.11n Channel 36 20MHz Antenna 0 Center Freq: 5.180000000 GHz Mkr2: 5.1834653 GHz -15.516 dBm Occupied Bandwidth: 17.762 MHz Total Power: 3.67 dBm Transmit Freq Error: -49.974 kHz OBW Power: 99.00 % x dB Bandwidth: 19.79 MHz x dB: -26.00 dB
 IEEE 802.11a Channel 140 20MHz Antenna 0 Center Freq: 5.200000000 GHz Mkr2: 5.2097624 GHz -16.463 dBm Occupied Bandwidth: 17.770 MHz Total Power: 3.29 dBm Transmit Freq Error: -25.932 kHz OBW Power: 99.00 % x dB Bandwidth: 19.95 MHz x dB: -26.00 dB	 IEEE 802.11n Channel 36 20MHz Antenna 0 Center Freq: 5.240000000 GHz Mkr2: 5.2484653 GHz -13.614 dBm Occupied Bandwidth: 17.712 MHz Total Power: 4.59 dBm Transmit Freq Error: -7.224 kHz OBW Power: 99.00 % x dB Bandwidth: 19.81 MHz x dB: -26.00 dB
 IEEE 802.11n Channel 40 20MHz Antenna 0 Center Freq: 5.260000000 GHz Mkr2: 5.2684653 GHz -2.4096 dBm Occupied Bandwidth: 17.707 MHz Total Power: 15.9 dBm Transmit Freq Error: -19.154 kHz OBW Power: 99.00 % x dB Bandwidth: 19.75 MHz x dB: -26.00 dB	 IEEE 802.11n Channel 48 20MHz Antenna 0 Center Freq: 5.300000000 GHz Mkr2: 5.3084653 GHz -5.2208 dBm Occupied Bandwidth: 17.728 MHz Total Power: 14.6 dBm Transmit Freq Error: -58.828 kHz OBW Power: 99.00 % x dB Bandwidth: 19.94 MHz x dB: -26.00 dB
 IEEE 802.11n Channel 52 20MHz Antenna 0 Center Freq: 5.320000000 GHz Mkr2: 5.3284653 GHz -5.5269 dBm Occupied Bandwidth: 17.813 MHz Total Power: 13.6 dBm Transmit Freq Error: -78.620 kHz OBW Power: 99.00 % x dB Bandwidth: 19.90 MHz x dB: -26.00 dB	 IEEE 802.11n Channel 60 20MHz Antenna 0 Center Freq: 5.500000000 GHz Mkr2: 5.5087624 GHz -8.9360 dBm Occupied Bandwidth: 17.744 MHz Total Power: 10.9 dBm Transmit Freq Error: -15.490 kHz OBW Power: 99.00 % x dB Bandwidth: 19.75 MHz x dB: -26.00 dB
IEEE 802.11n Channel 64 20MHz Antenna 0	IEEE 802.11n Channel 100 20MHz Antenna 0