

Appendix B: Test data of 5GHz bands Wi-Fi

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Appendix B.1: Maximum output power

802.11a mode:

Channel	Channel Frequency (MHz)	ANT1_Conducted Power (dBm)	ANT2_Conducted Power (dBm)	E.I.R.P ³ Power dBm)	FCC Limit (dBm)	IC E.I.R.P. Limit (dBm)	Result
36	5180	9.177	10.678	13.508	23.98	22.16	Pass
40	5200	9.455	11.122	13.952	23.98	22.15	Pass
48	5240	10.785	11.735	14.565	23.98	22.15	Pass
52	5260	10.904	11.238	14.068	23.98	30	Pass
60	5300	10.460	10.784	13.614	23.98	30	Pass
64	5320	10.154	10.092	13.044	23.98	30	Pass
100	5500	8.618	10.228	13.058	23.98	30	Pass
116	5580	9.527	10.706	13.536	23.98	30	Pass
140	5700	8.821	11.609	14.439	23.98	30	Pass
149	5745	13.897	13.635	16.787	30	36	Pass
157	5785	13.586	13.323	16.476	30	36	Pass
165	5825	13.202	12.541	16.092	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: 2.89 dBi(ANT1) and 2.83 dBi(ANT2), 2.89dBi(MIMO).
e.i.r.p.=P_(Peak power)+ G, which is far below the IC Limit
- 3) Antennas 1 and 2 are uncorrelated, and MIMO antenna gain is the maximum of the two antennas.

802.11n(HT20) mode:

Channel	Channel Frequency (MHz)	ANT1_Conducted Power (dBm)	ANT2_Conducted Power (dBm)	Total (dBm)		FCC Limit (dBm)	IC E.I.R.P. Limit (dBm)	Result
				Conducted	EIRP ³			
36	5180	6.804	8.622	10.818	13.708	23.98	22.45	Pass
40	5200	7.158	9.109	11.252	14.142	23.98	22.45	Pass
48	5240	8.455	9.857	12.223	15.113	23.98	22.46	Pass
52	5260	8.400	9.100	11.774	14.664	23.98	30	Pass
60	5300	7.897	8.518	11.229	14.119	23.98	30	Pass
64	5320	7.757	8.037	10.910	13.800	23.98	30	Pass
100	5500	8.523	10.140	12.417	15.307	23.98	30	Pass
116	5580	9.186	10.318	12.799	15.689	23.98	30	Pass
140	5700	9.090	11.734	13.620	16.510	23.98	30	Pass
149	5745	13.495	13.599	16.558	19.448	30	36	Pass
157	5785	13.637	13.785	16.722	19.612	30	36	Pass
165	5825	13.087	12.788	15.950	18.840	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: 2.89 dBi(ANT1) and 2.83 dBi(ANT2), 2.89dBi(MIMO).
e.i.r.p.=P_(Peak power)+ G, which is far below the IC Limit
- 3) Antennas 1 and 2 are uncorrelated, and MIMO antenna gain is the maximum of the two antennas.

802.11ac(VHT20) mode:

Channel	Channel Frequency (MHz)	ANT1_Conducted Power (dBm)	ANT2_Conducted Power (dBm)	Total (dBm)		FCC Limit (dBm)	IC E.I.R.P. Limit (dBm)	Result
				Conducted	EIRP ³			
36	5180	6.668	8.360	10.606	13.496	23.98	22.46	Pass
40	5200	6.945	8.798	10.980	13.870	23.98	22.46	Pass
48	5240	8.417	9.759	12.150	15.040	23.98	22.46	Pass
52	5260	8.430	9.240	11.864	14.754	23.98	30	Pass
60	5300	8.099	8.759	11.452	14.342	23.98	30	Pass
64	5320	7.805	8.119	10.975	13.865	23.98	30	Pass
100	5500	8.403	10.180	12.392	15.282	23.98	30	Pass
116	5580	9.301	10.496	12.950	15.840	23.98	30	Pass
140	5700	8.939	11.617	13.492	16.382	23.98	30	Pass
149	5745	13.456	13.532	16.504	19.394	30	36	Pass
157	5785	14.106	14.150	17.138	20.028	30	36	Pass
165	5825	11.869	11.634	14.763	17.653	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: 2.89 dBi(ANT1) and 2.83 dBi(ANT2), 2.89dBi(MIMO).
e.i.r.p.=P_(Peak power)+ G, which is far below the IC Limit
- 3) Antennas 1 and 2 are uncorrelated, and MIMO antenna gain is the maximum of the two antennas.

802.11n(HT40) mode:

Channel	Channel Frequency (MHz)	ANT1_Conducted Power (dBm)	ANT2_Conducted Power (dBm)	Total (dBm)		FCC Limit (dBm)	IC E.I.R.P. Limit (dBm)	Result
				Conducted	EIRP ³			
38	5190	9.883	9.909	12.906	15.796	23.98	22.56	Pass
46	5230	10.659	10.532	13.606	16.496	23.98	22.57	Pass
54	5270	10.661	10.337	13.512	16.402	23.98	30	Pass
62	5310	9.769	9.884	12.837	15.727	23.98	30	Pass
102	5510	12.868	11.983	15.458	18.348	23.98	30	Pass
110	5550	12.530	11.830	15.204	18.094	23.98	30	Pass
134	5670	13.087	13.287	16.198	19.088	23.98	30	Pass
151	5755	14.168	14.289	17.239	20.129	30	36	Pass
159	5795	13.015	13.043	16.039	18.929	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: 2.89 dBi(ANT1) and 2.83 dBi(ANT2), 2.89dBi(MIMO).
e.i.r.p.=P_(Peak power)+ G, which is far below the IC Limit
- 3) Antennas 1 and 2 are uncorrelated, and MIMO antenna gain is the maximum of the two antennas.

802.11ac(VHT40) mode:

Channel	Frequency (MHz)	ANT1_Conducted Power (dBm)	ANT2_Conducted Power (dBm)	Total (dBm)		FCC Limit (dBm)	IC E.I.R.P. Limit (dBm)	Result
				Conducted	EIRP ³			
38	5190	10.020	10.026	13.033	15.923	23.98	22.57	Pass
46	5230	10.828	10.835	13.842	16.732	23.98	22.56	Pass
54	5270	10.672	10.518	13.606	16.496	23.98	30	Pass
62	5310	9.745	9.869	12.818	15.708	23.98	30	Pass
102	5510	12.608	11.922	15.289	18.179	23.98	30	Pass
110	5550	12.920	12.175	15.574	18.464	23.98	30	Pass
134	5670	12.563	12.763	15.674	18.564	23.98	30	Pass
151	5755	13.479	13.549	16.524	19.414	30	36	Pass
159	5795	12.942	12.936	15.949	18.839	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: 2.89 dBi(ANT1) and 2.83 dBi(ANT2), 2.89dBi(MIMO).
e.i.r.p.=P_(Peak power)+ G, which is far below the IC Limit
- 3) Antennas 1 and 2 are uncorrelated, and MIMO antenna gain is the maximum of the two antennas.

802.11ac(VHT80) mode:

Channel	Frequency (MHz)	ANT1_Conducted Power (dBm)	ANT2_Conducted Power (dBm)	Total (dBm)		FCC Limit (dBm)	IC E.I.R.P. Limit (dBm)	Result
				Conducted	EIRP ³			
42	5210	10.197	10.109	13.164	16.054	23.98	23	Pass
58	5290	10.198	10.325	13.272	16.162	23.98	30	Pass
106	5530	12.872	12.027	15.480	18.370	23.98	30	Pass
122	5610	12.873	12.802	15.848	18.738	23.98	30	Pass
155	5775	13.613	13.761	16.698	19.588	30	36	Pass

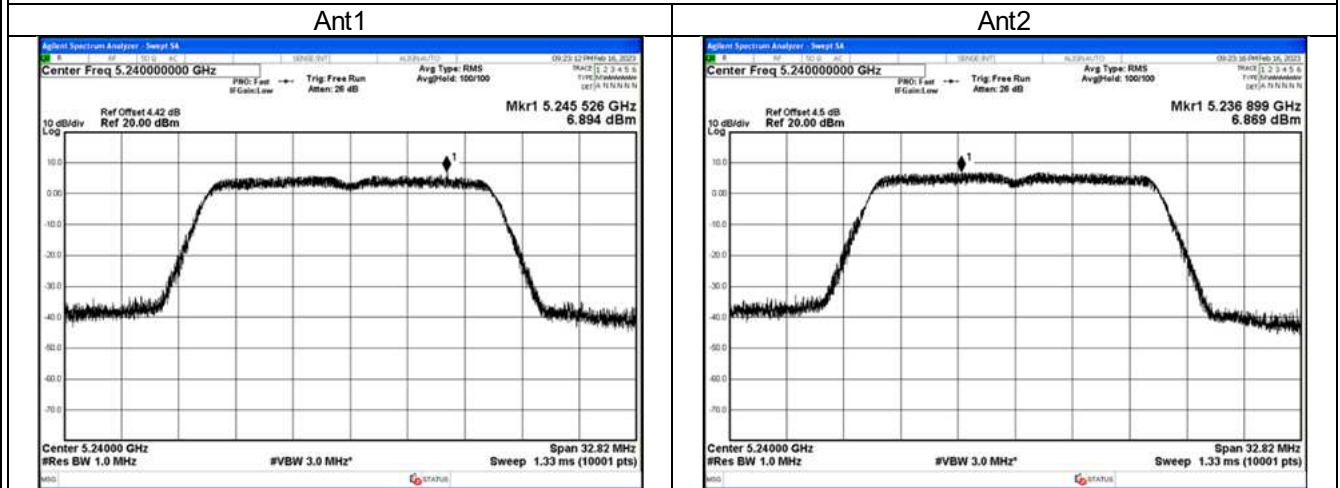
Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: 2.89 dBi(ANT1) and 2.83 dBi(ANT2), 2.89dBi(MIMO).
e.i.r.p.=P_(Peak power)+ G, which is far below the IC Limit
- 3) Antennas 1 and 2 are uncorrelated, and MIMO antenna gain is the maximum of the two antennas.

Appendix B.2: Power Spectral Density

Worst case

802.11a 5240MHz



802.11a mode:

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/MHz)		ANT2_Power Spectral Density (dBm/MHz)		Total_Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC E.I.R.P. Limit (dBm/MHz ⁽²⁾)	Result
		FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾			
36	5180	5.118	5.118	5.745	5.118	--	--	11	10	Pass
44	5200	5.535	5.535	6.287	5.535	--	--	11	10	Pass
48	5240	6.894	6.894	6.869	6.894	--	--	11	10	Pass
52	5260	6.883	6.883	6.374	6.374	--	--	11	11	Pass
56	5300	6.009	6.009	5.890	5.890	--	--	11	11	Pass
64	5320	5.838	5.838	5.173	5.173	--	--	11	11	Pass
100	5500	3.268	3.268	4.830	4.830	--	--	11	11	Pass
116	5580	4.120	4.120	5.124	5.124	--	--	11	11	Pass
140	5700	3.395	3.395	6.168	6.168	--	--	11	11	Pass

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/500KHz)	ANT2_Power Spectral Density (dBm/500K Hz)	Total_Power Spectral Density (dBm/500K Hz)	Limit (dBm/500KHz)	Result
149	5745	6.955	5.322	9.225	30	Pass
157	5785	6.341	4.350	8.469	30	Pass
165	5825	5.660	3.935	7.893	30	Pass

Note:

(1) The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

(2) For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

802.11n(HT20) mode:

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/MHz)		ANT2_Power Spectral Density (dBm/MHz)		Total_Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC E.I.R.P. Limit (dBm/MHz ⁽²⁾)	Result
		FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾			
36	5180	1.345	1.345	3.162	3.162	5.358	5.358	11	10	Pass
44	5200	1.817	1.817	3.699	3.699	5.869	5.869	11	10	Pass
48	5240	3.146	3.146	4.307	4.307	6.775	6.775	11	10	Pass
52	5260	3.067	3.067	3.697	3.697	6.404	6.404	11	11	Pass
56	5300	2.513	2.513	3.12	3.12	5.837	5.837	11	11	Pass
64	5320	2.433	2.433	2.623	2.623	5.539	5.539	11	11	Pass
100	5500	3.173	3.173	4.579	4.579	6.943	6.943	11	11	Pass
116	5580	3.787	3.787	4.835	4.835	7.353	7.353	11	11	Pass
140	5700	3.627	3.627	6.308	6.308	8.181	8.181	11	11	Pass

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/500KHz)	ANT2_Power Spectral Density (dBm/500K Hz)	Total_Power Spectral Density (dBm/500K Hz)	Limit (dBm/500KHz)	Result
149	5745	4.907	5.238	8.086	30	Pass
157	5785	5.13	4.713	7.937	30	Pass
165	5825	3.978	4.386	7.197	30	Pass

Note:

(1) The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

(2) For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

802.11ac(VHT20) mode:

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/MHz)		ANT2_Power Spectral Density (dBm/MHz)		Total_Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC E.I.R.P. Limit (dBm/MHz ⁽²⁾)	Result
		FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾			
36	5180	1.172	1.172	3.037	3.037	5.214	5.214	11	10	Pass
44	5200	1.545	1.545	3.411	3.411	5.588	5.588	11	10	Pass
48	5240	3.097	3.097	4.218	4.218	6.704	6.704	11	10	Pass
52	5260	3.151	3.151	3.783	3.783	6.489	6.489	11	11	Pass
56	5300	2.772	2.772	3.328	3.328	6.069	6.069	11	11	Pass
64	5320	2.465	2.465	2.710	2.710	5.600	5.600	11	11	Pass
100	5500	3.137	3.137	4.713	4.713	7.006	7.006	11	11	Pass
116	5580	3.939	3.939	4.985	4.985	7.504	7.504	11	11	Pass
140	5700	3.518	3.518	6.137	6.137	8.032	8.032	11	11	Pass

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/500KHz)	ANT2_Power Spectral Density (dBm/500K Hz)	Total_Power Spectral Density (dBm/500K Hz)	Limit (dBm/500KHz)	Result
149	5745	4.543	5.246	7.919	30	Pass
157	5785	5.601	5.558	8.590	30	Pass
165	5825	3.832	3.413	6.638	30	Pass

Note:

(1) The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

(2) For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

802.11n(HT40) mode:

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/MHz)		ANT2_Power Spectral Density (dBm/MHz)		Total_Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC E.I.R.P. Limit (dBm/MHz ⁽²⁾)	Result
		FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾			
38	5190	4.883	4.883	1.828	1.828	4.883	4.883	11	10	Pass
46	5230	5.664	5.664	2.576	2.576	5.664	5.664	11	10	Pass
54	5270	5.455	5.455	2.266	2.266	5.455	5.455	11	10	Pass
62	5310	4.806	4.806	1.860	1.860	4.806	4.806	11	11	Pass
102	5510	7.389	7.389	3.883	3.883	7.389	7.389	11	11	Pass
110	5550	7.303	7.303	3.822	3.822	7.303	7.303	11	11	Pass
134	5670	8.084	8.084	5.173	5.173	4.883	4.883	11	11	Pass

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/500KHz)	ANT2_Power Spectral Density (dBm/500K Hz)	Total_Power Spectral Density (dBm/500K Hz)	Limit (dBm/500KHz)	Result
151	5755	2.538	2.076	5.323	30	Pass
159	5795	1.471	1.368	4.430	30	Pass

Note:

(1) The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

(2) For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

802.11ac(VHT40) mode:

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/MHz)		ANT2_Power Spectral Density (dBm/MHz)		Total_Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC E.I.R.P. Limit (dBm/MHz ⁽²⁾)	Result
		FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾			
38	5190	1.908	1.908	1.922	1.922	4.925	4.925	11	10	Pass
46	5230	2.834	2.834	2.737	2.737	5.796	5.796	11	10	Pass
54	5270	2.661	2.661	2.480	2.480	5.582	5.582	11	10	Pass
62	5310	1.760	1.760	1.906	1.906	4.844	4.844	11	11	Pass
102	5510	4.698	4.698	3.998	3.998	7.372	7.372	11	11	Pass
110	5550	4.962	4.962	4.073	4.073	7.551	7.551	11	11	Pass
134	5670	4.571	4.571	4.758	4.758	7.676	7.676	11	11	Pass

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/500KHz)	ANT2_Power Spectral Density (dBm/500K Hz)	Total_Power Spectral Density (dBm/500K Hz)	Limit (dBm/500KHz)	Result
151	5755	2.084	1.546	4.834	30	Pass
159	5795	1.458	1.217	4.349	30	Pass

Note:

(1) The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

(2) For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

802.11ac(VHT80) mode:

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/MHz)		ANT2_Power Spectral Density (dBm/MHz)		Total_Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC E.I.R.P. Limit (dBm/MHz ⁽²⁾)	Result
		FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾	FCC	IC ⁽¹⁾			
42	5210	-0.556	-0.556	-0.927	-0.927	2.273	2.273	11	10	Pass
58	5290	-0.234	-0.234	-0.681	-0.681	2.559	2.559	11	10	Pass
106	5530	2.104	2.104	1.221	1.221	4.695	4.695	11	10	Pass
122	5610	2.160	2.160	1.446	1.446	4.828	4.828	11	10	Pass

Channel	Channel Frequency (MHz)	ANT1_Power Spectral Density (dBm/500KHz)	ANT2_Power Spectral Density (dBm/500K Hz)	Total_Power Spectral Density (dBm/500K Hz)	Limit (dBm/500KHz)	Result
155	5775	-0.619	-1.121	2.148	30	Pass

Note:

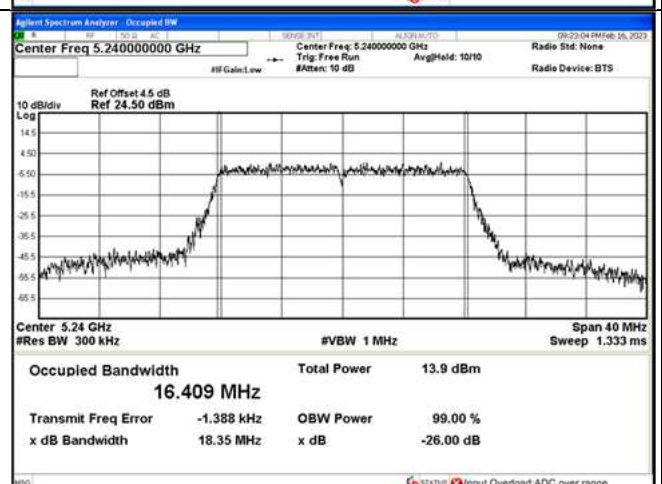
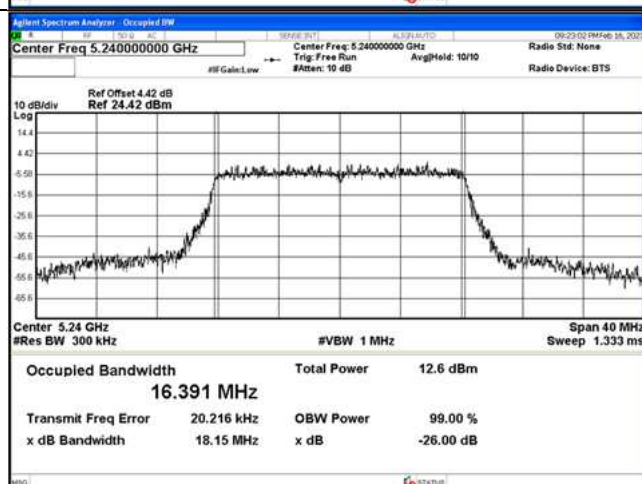
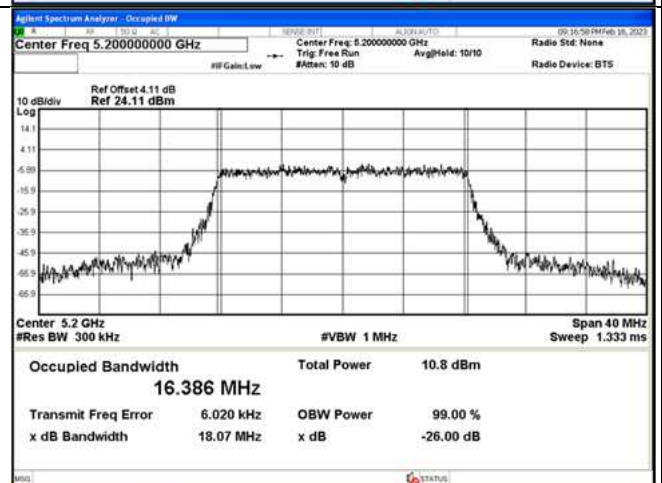
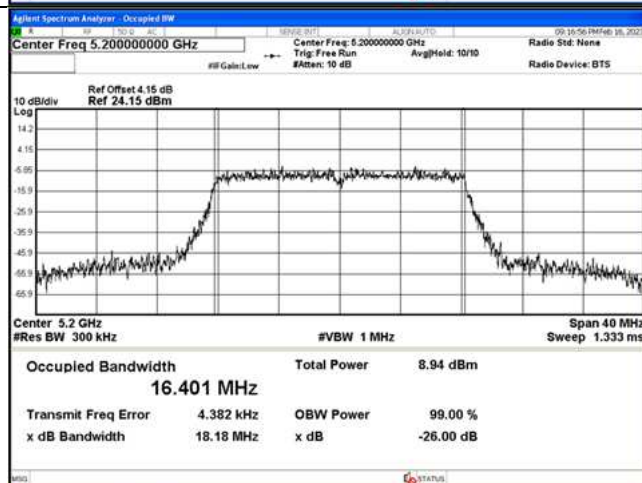
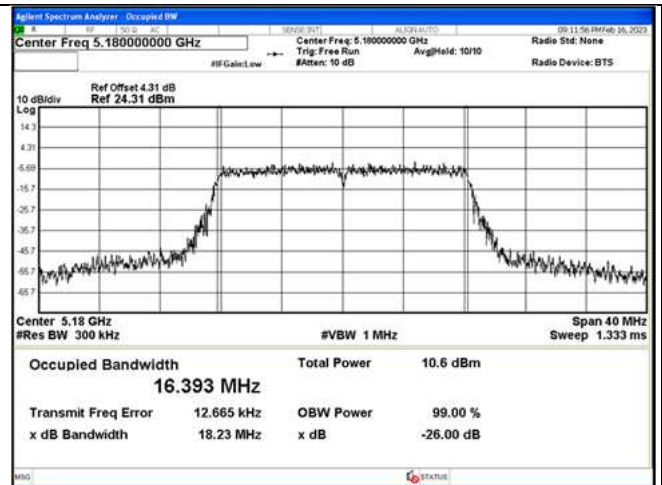
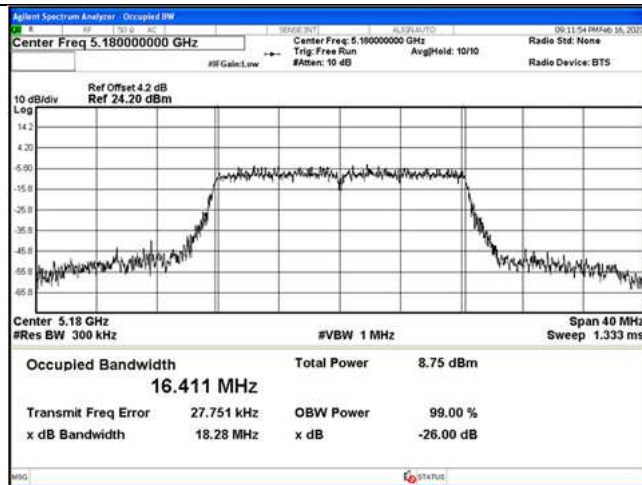
(1) The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

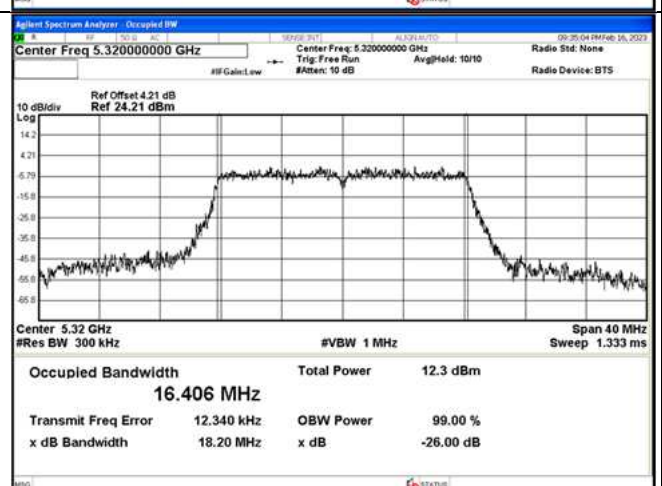
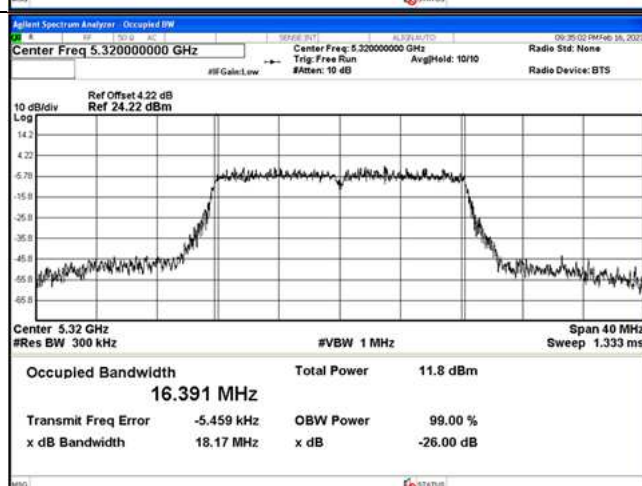
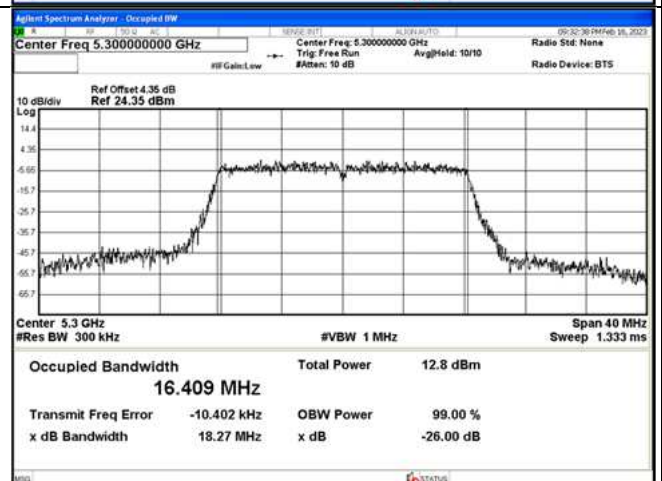
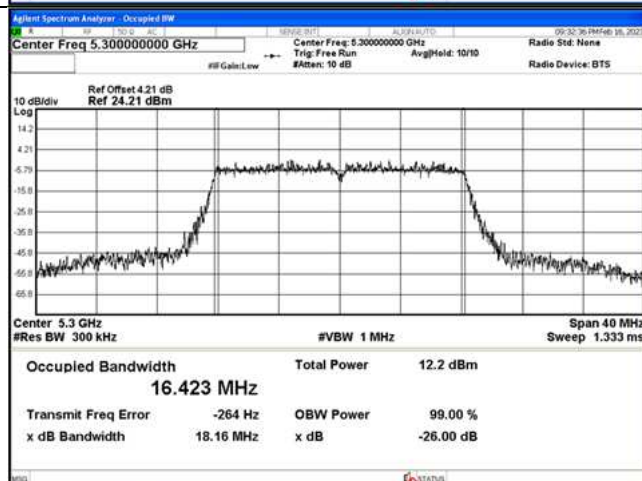
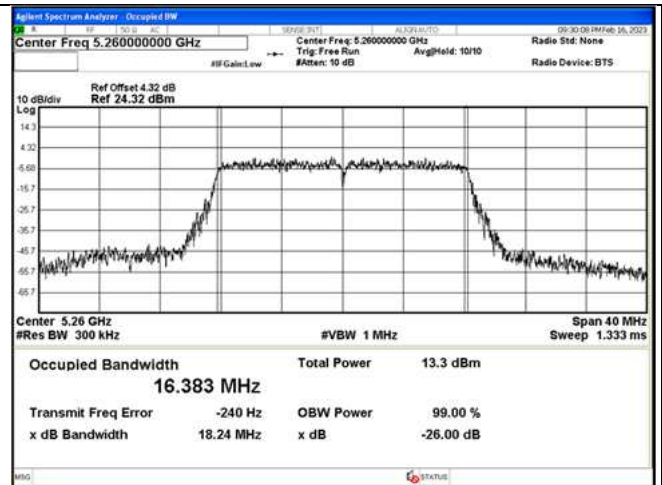
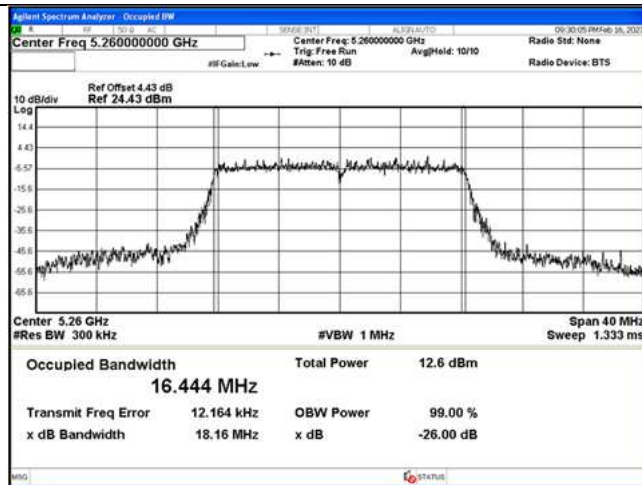
(2) For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

Appendix B.3: 26dB Bandwidth and 99% Bandwidth

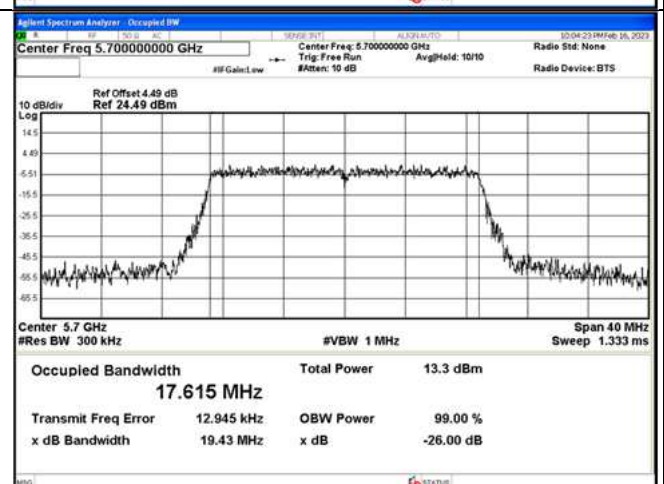
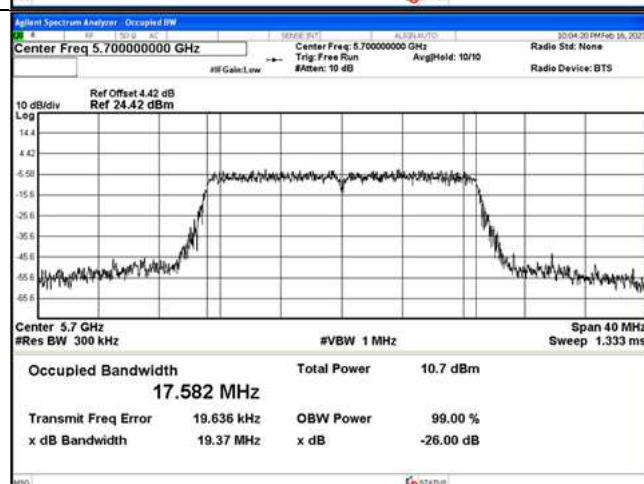
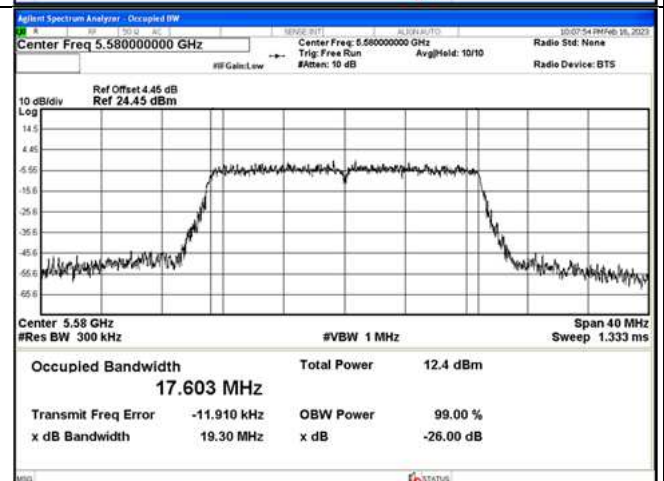
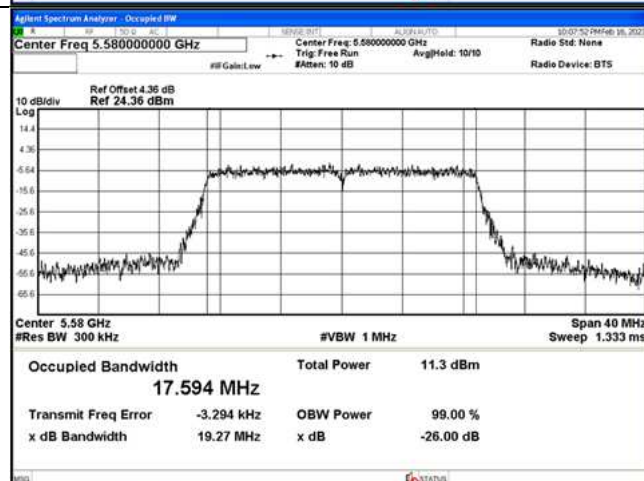
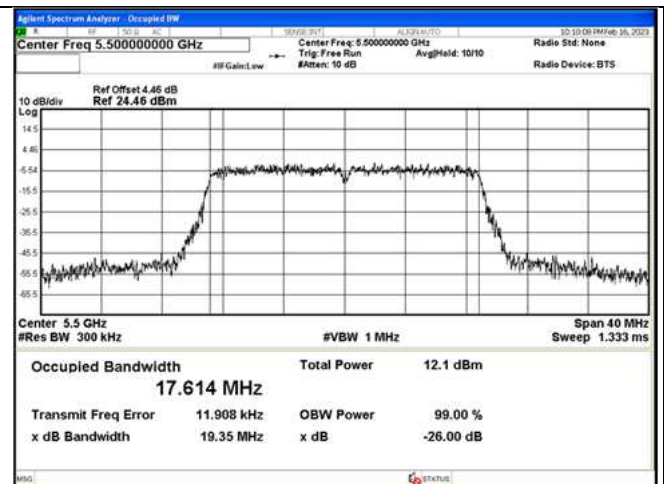
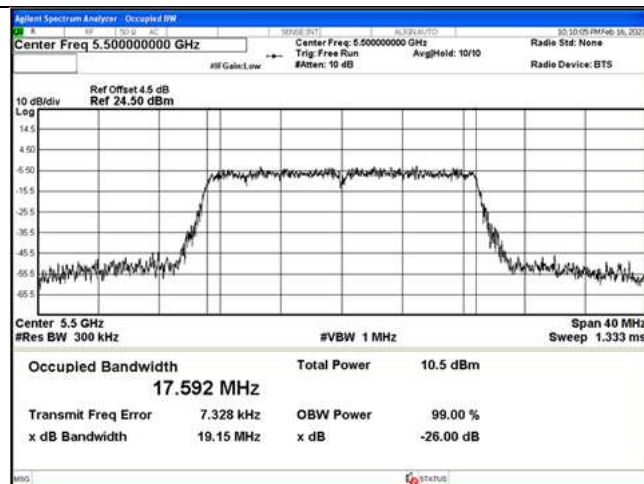
802.11a mode:

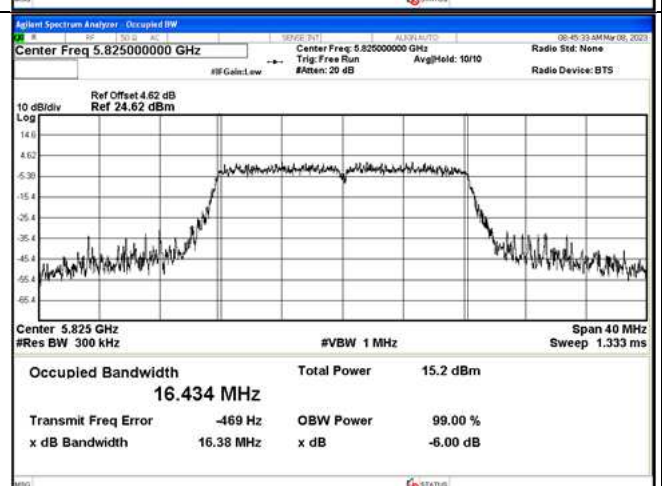
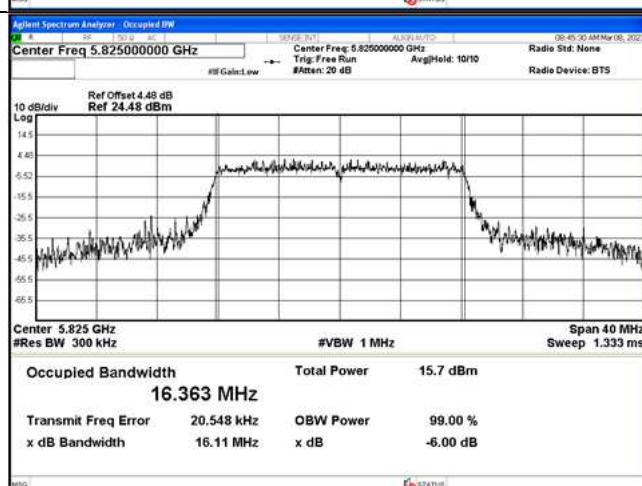
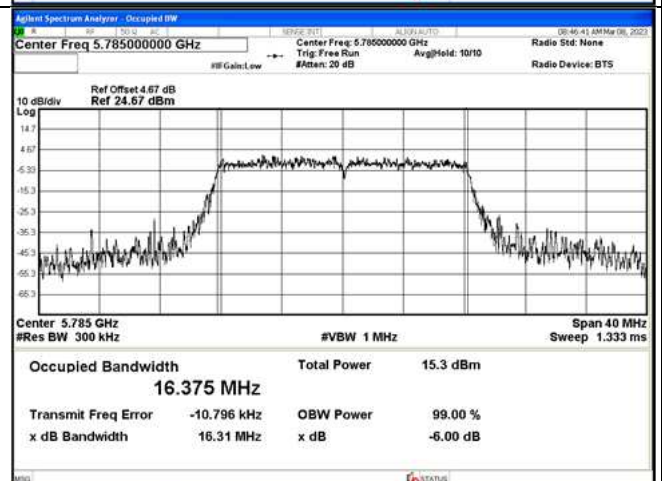
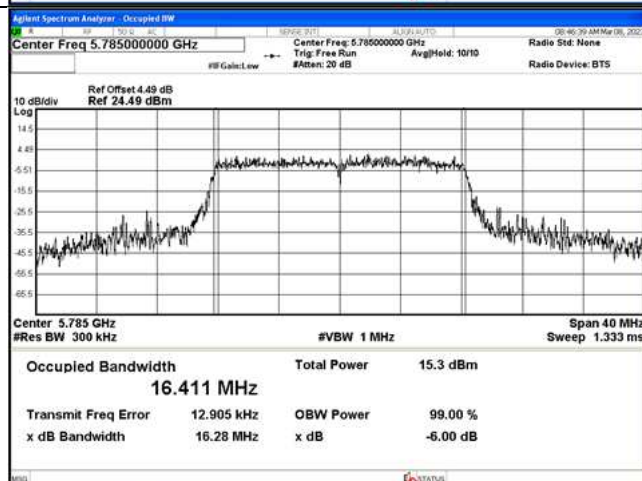
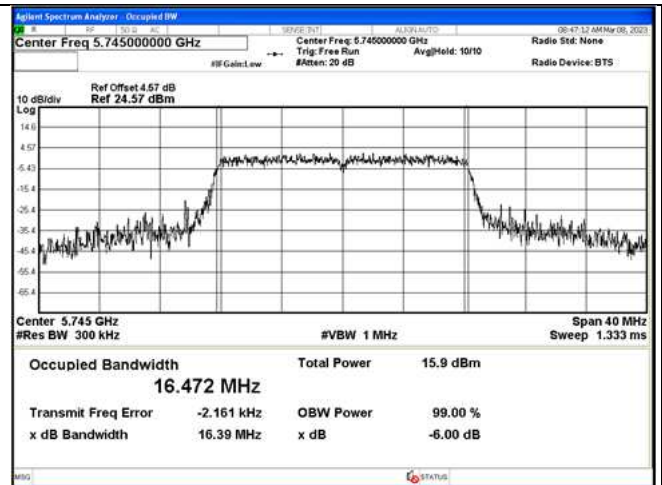
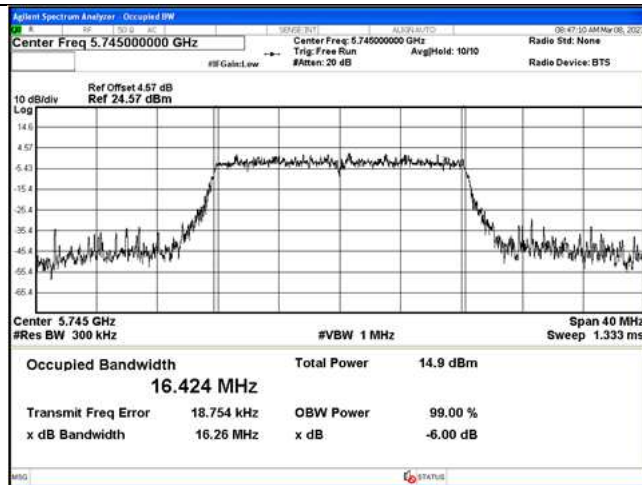
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	18.28	16.4033	18.23	16.4399
44	5200	18.18	16.4026	18.07	16.3874
48	5240	18.15	16.3912	18.35	16.4087
52	5260	18.16	16.4437	18.24	16.3829
56	5300	18.16	16.423	18.27	16.409
64	5320	18.17	16.3915	18.20	16.4063
100	5500	18.12	17.5918	18.52	17.614
116	5580	19.27	17.5938	19.30	17.6026
140	5700	19.37	17.5817	19.43	17.6148
149	5745	16.26	16.424	16.39	16.4724
157	5785	16.28	16.4106	16.31	16.3753
165	5825	16.11	16.3631	16.38	16.4342





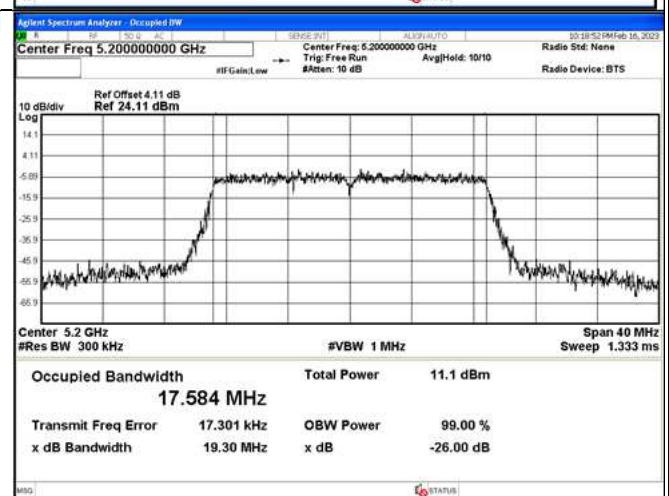
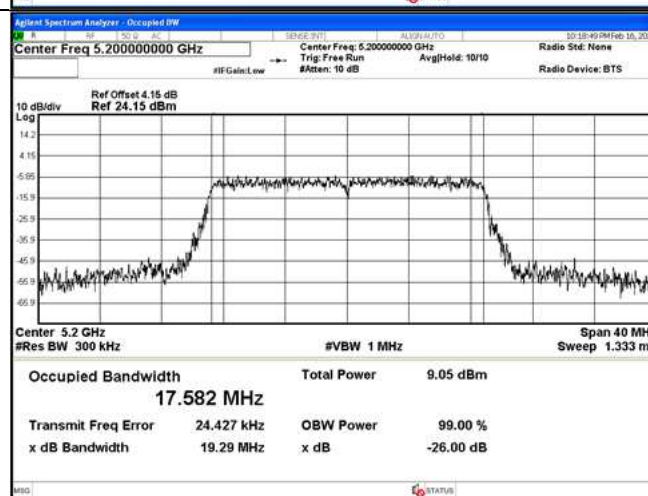
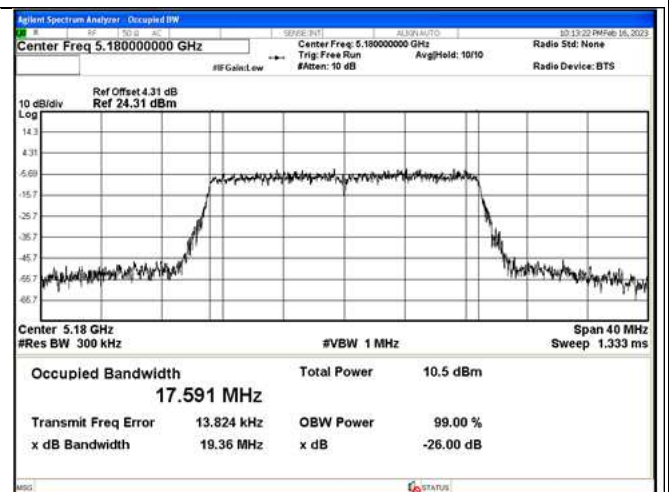
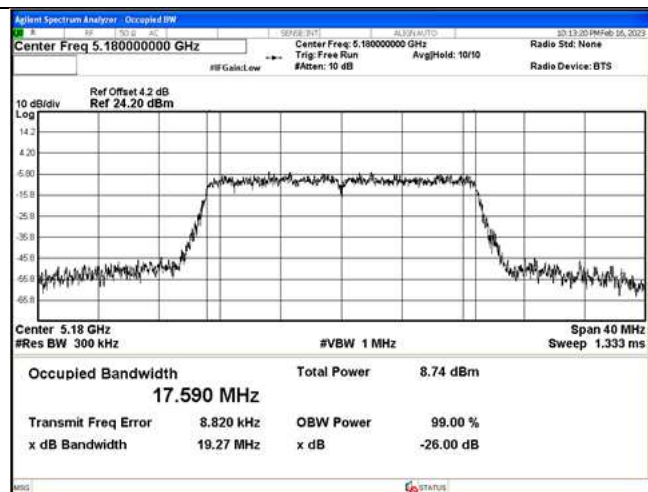
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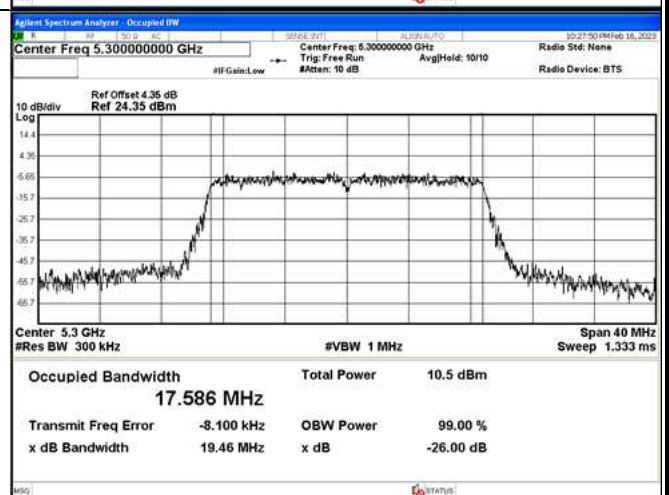
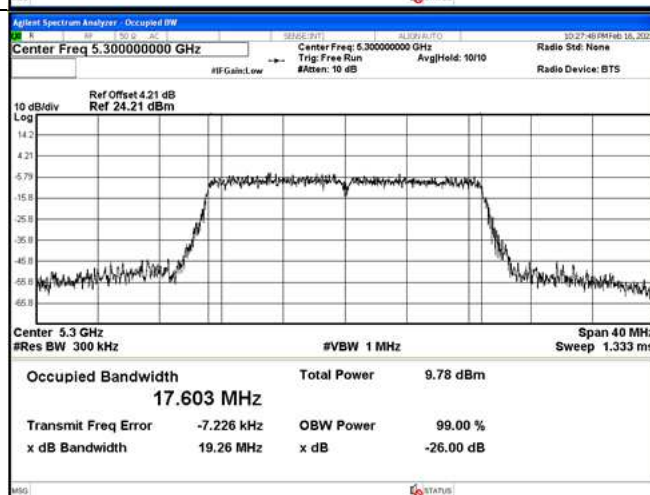
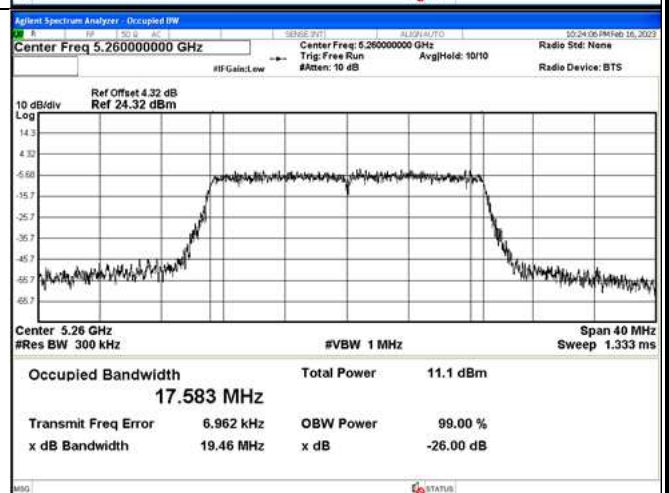
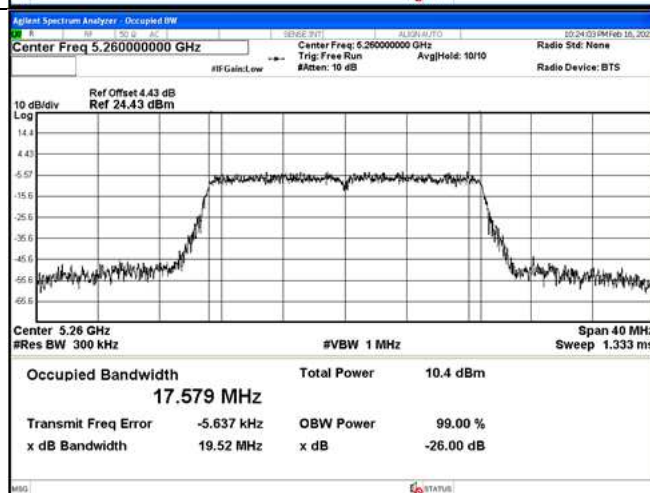
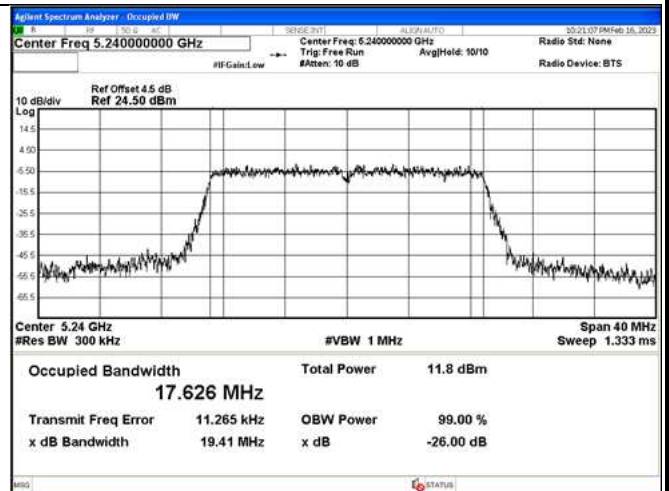
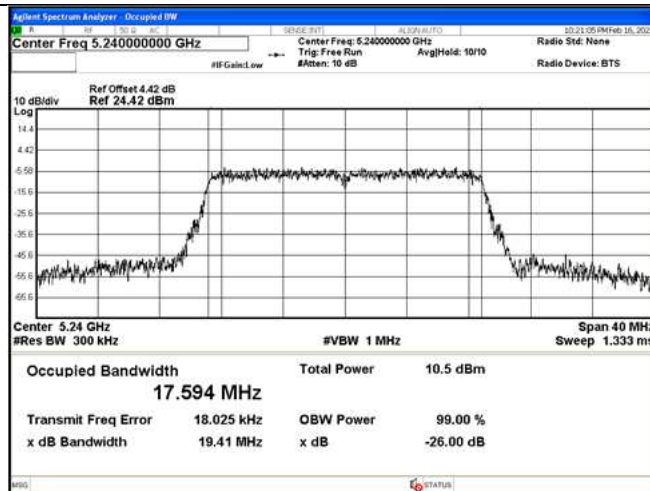


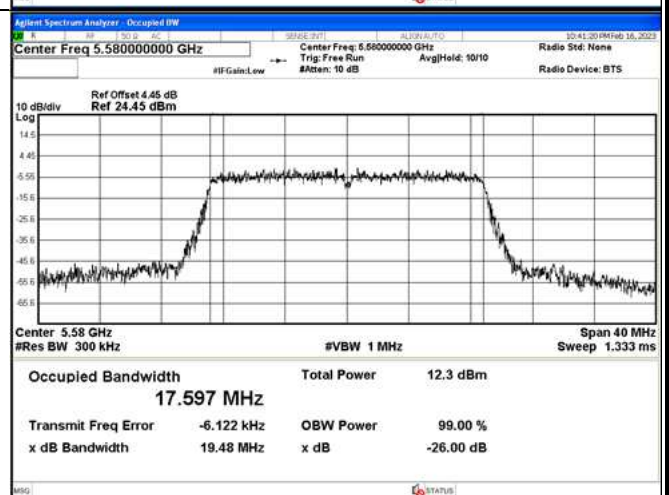
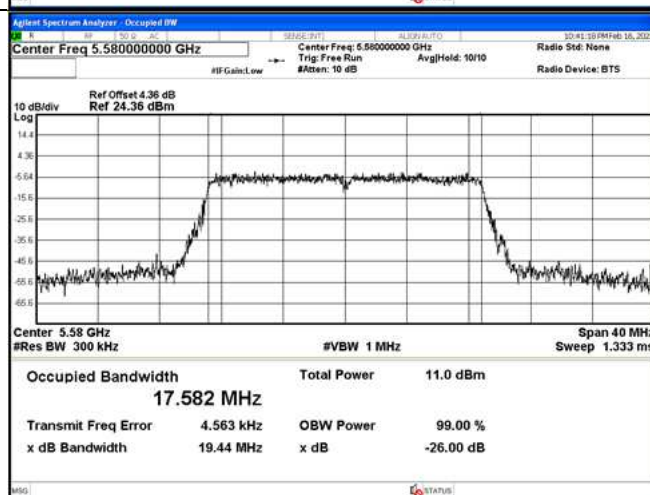
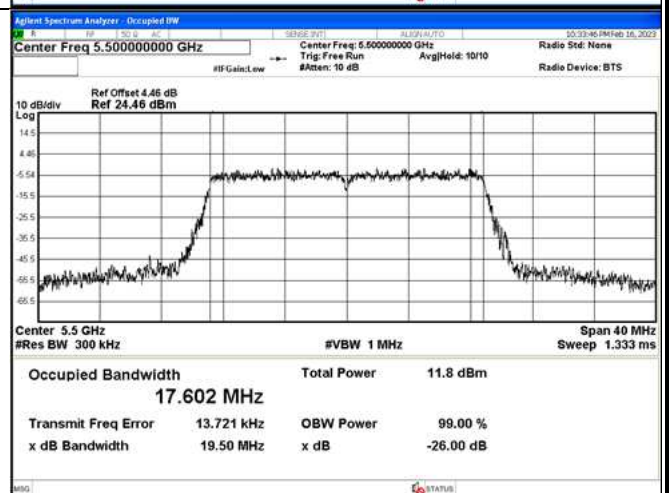
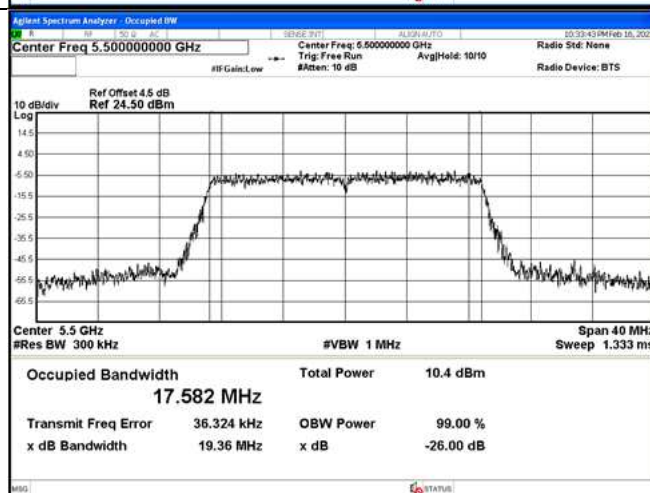
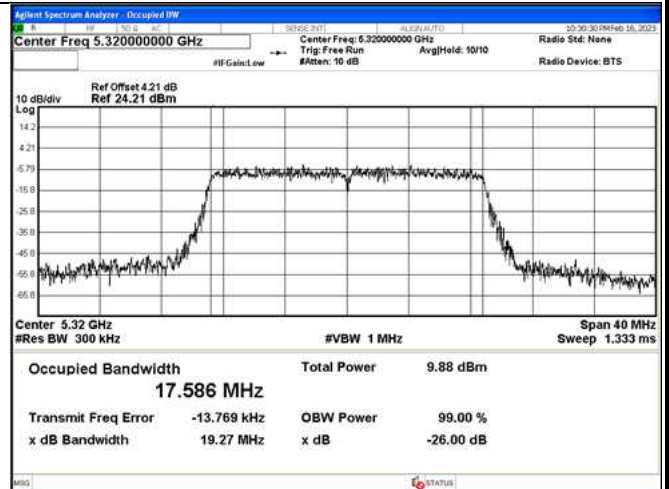
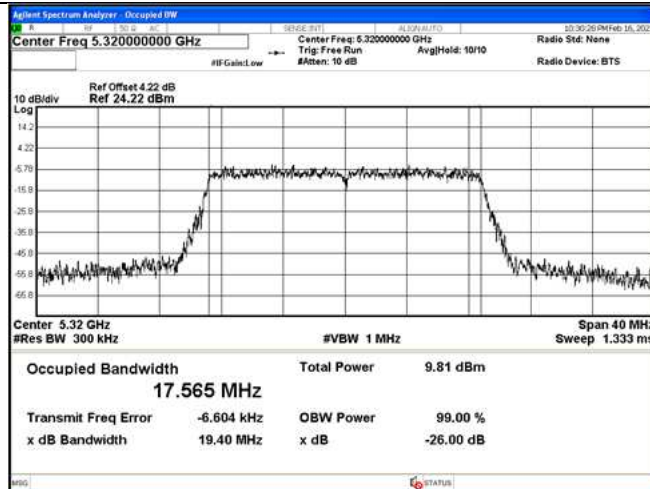


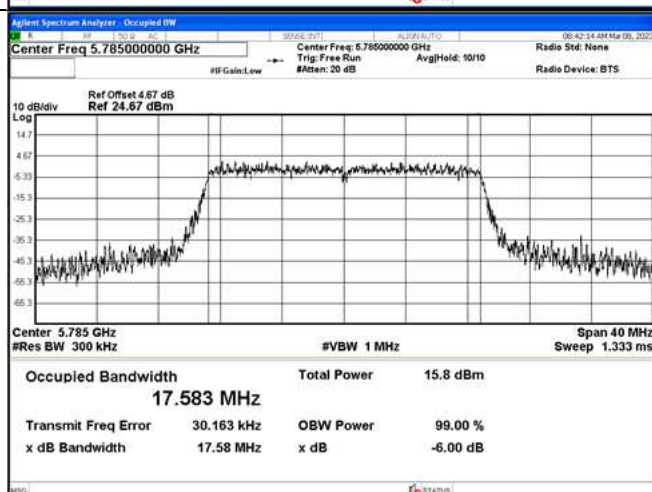
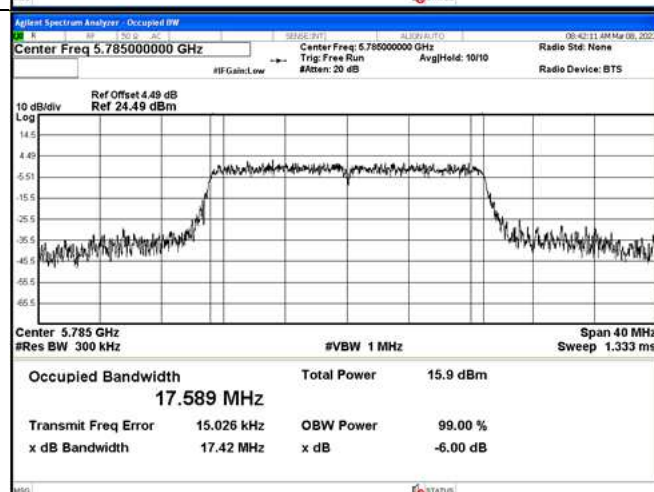
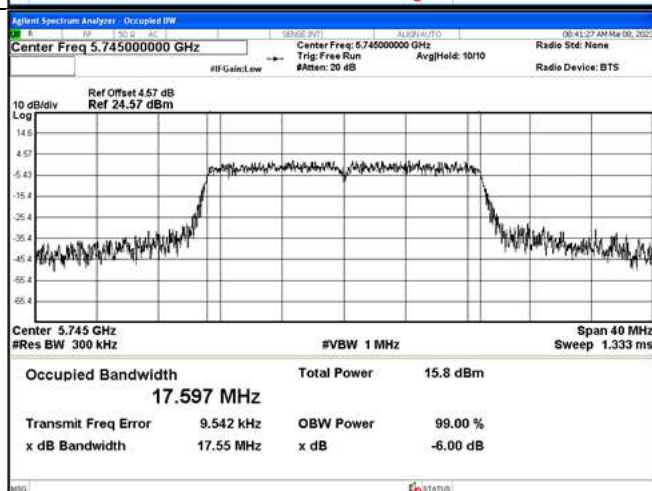
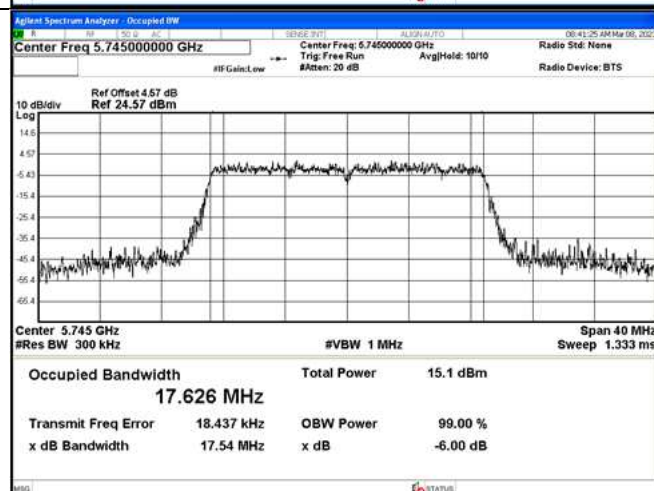
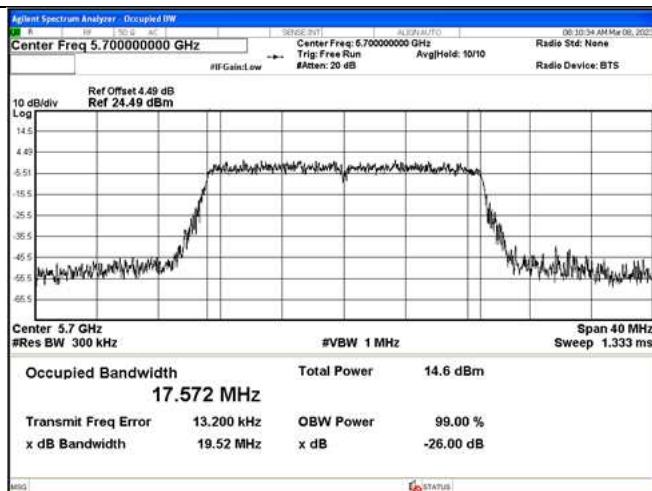
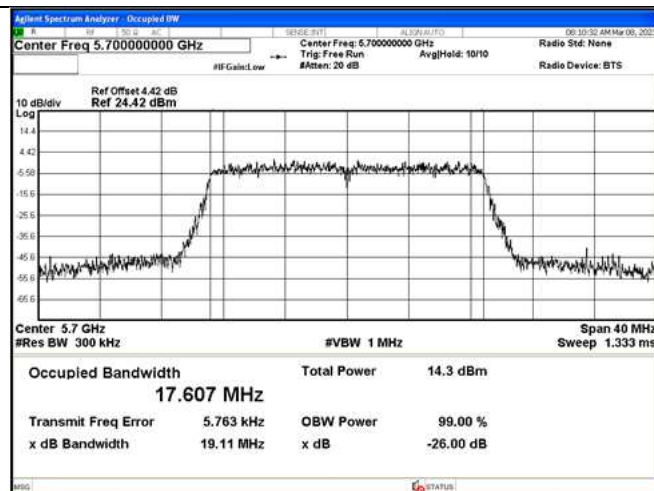
802.11n(HT20) mode:

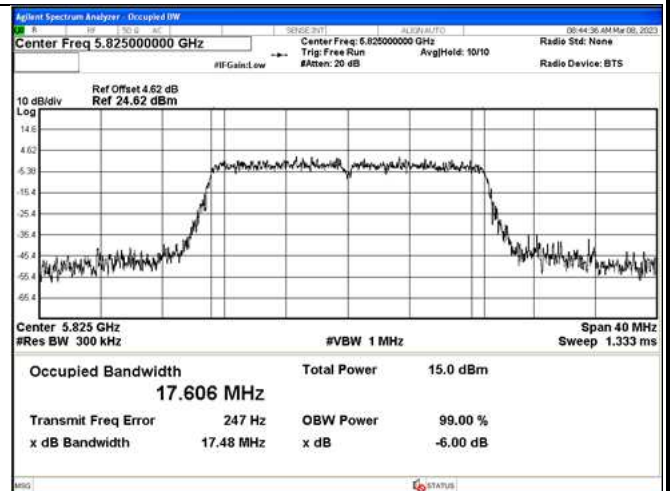
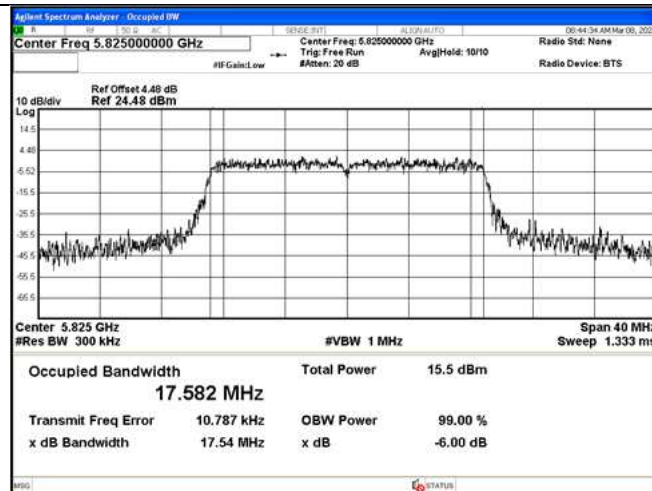
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	19.27	17.5897	19.36	17.5911
44	5200	19.29	17.5817	19.30	17.5844
48	5240	19.41	17.5942	19.41	17.6263
52	5260	19.52	17.5787	19.46	17.5827
56	5300	19.26	17.6029	19.46	17.5861
64	5320	19.40	17.565	19.27	17.5859
100	5500	19.36	17.5815	19.50	17.6022
116	5580	19.44	17.5815	19.48	17.597
140	5700	19.49	17.5985	19.20	17.5892
149	5745	17.62	17.5487	17.67	17.5516
157	5785	17.67	17.5623	17.68	17.5646
165	5825	17.65	17.5558	17.62	17.5702





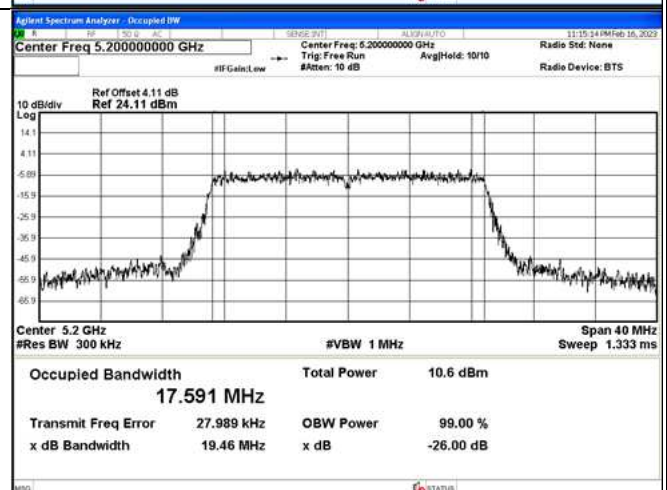
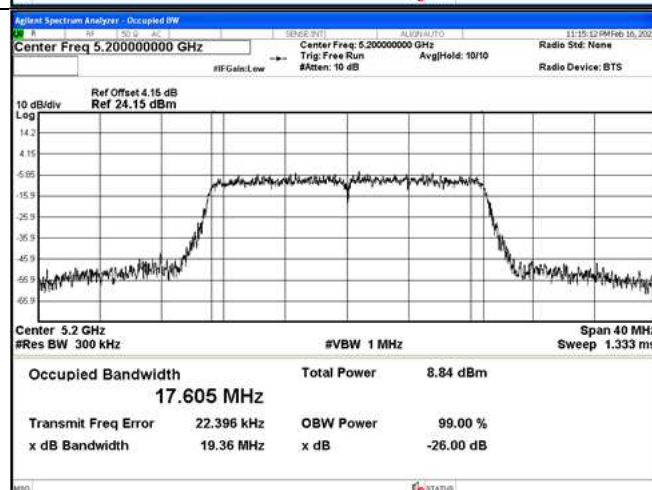
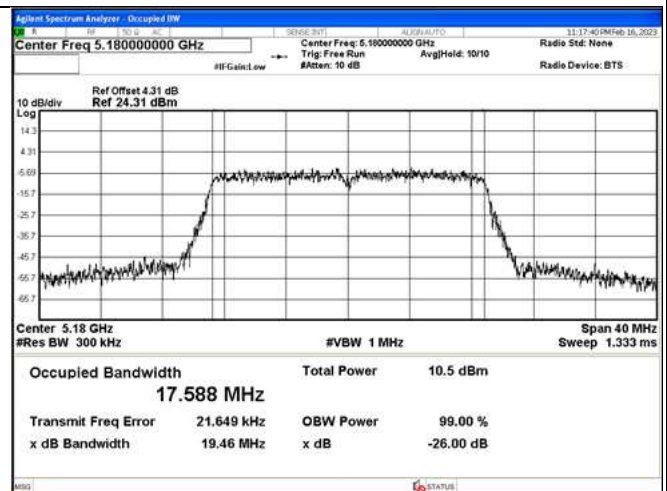
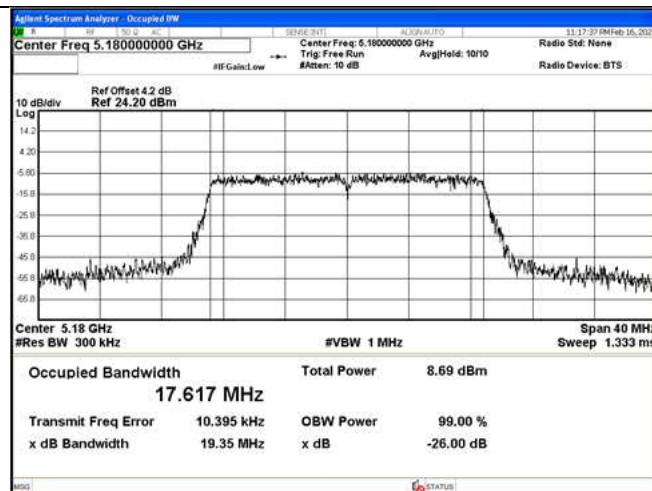


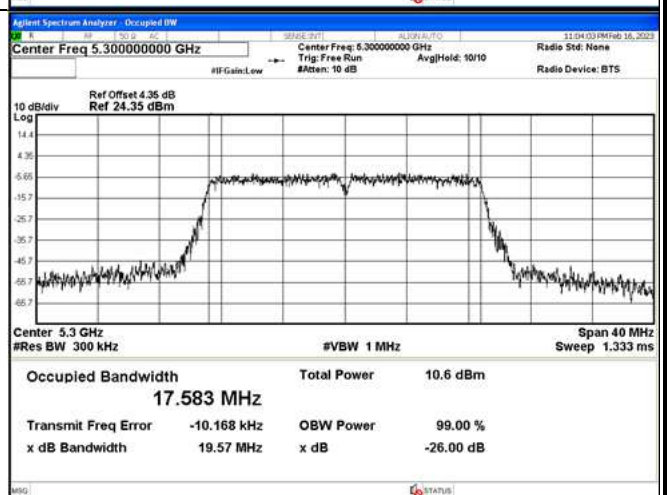
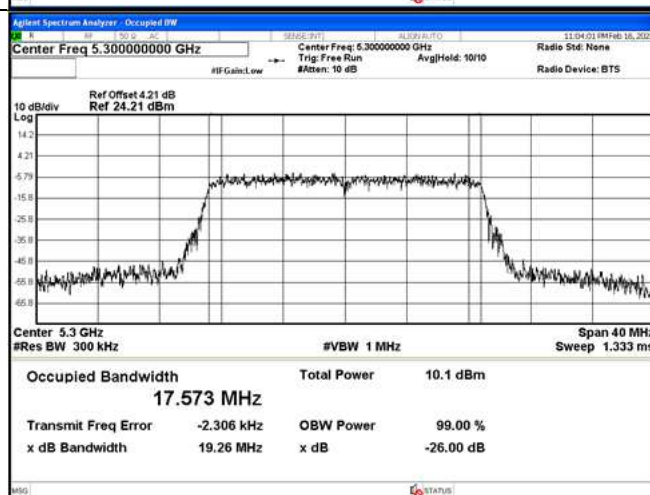
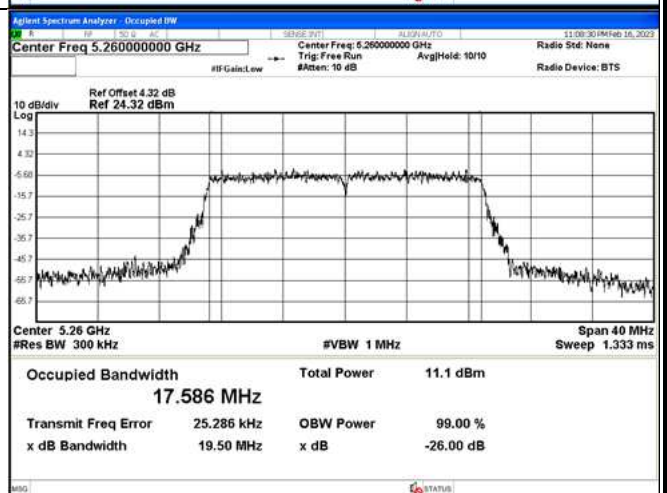
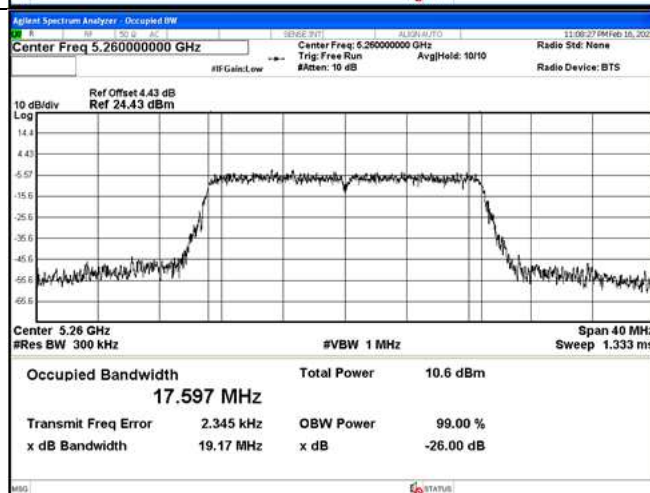
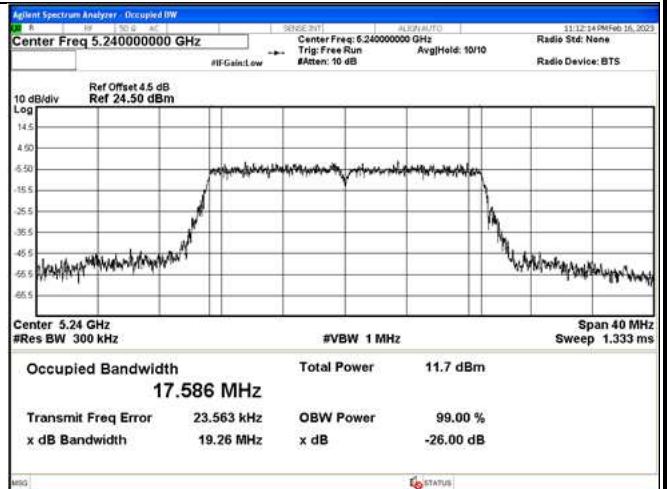
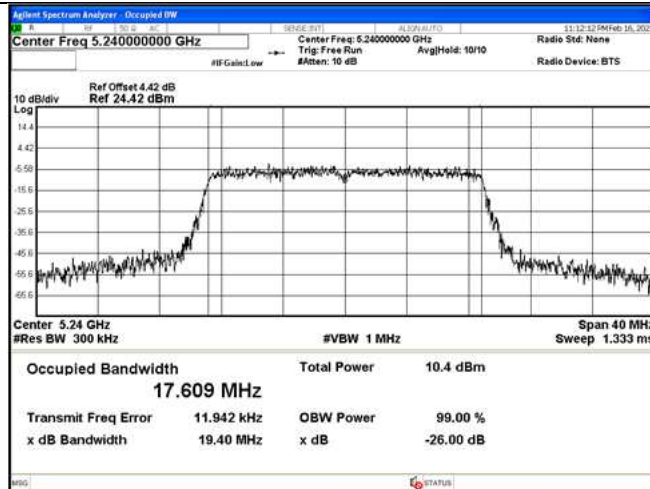


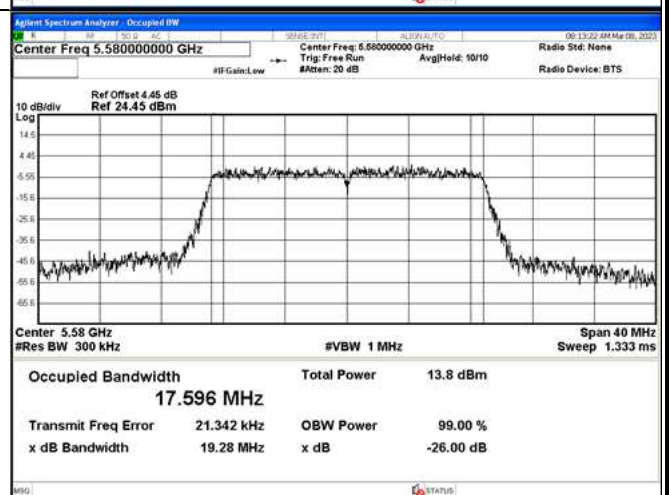
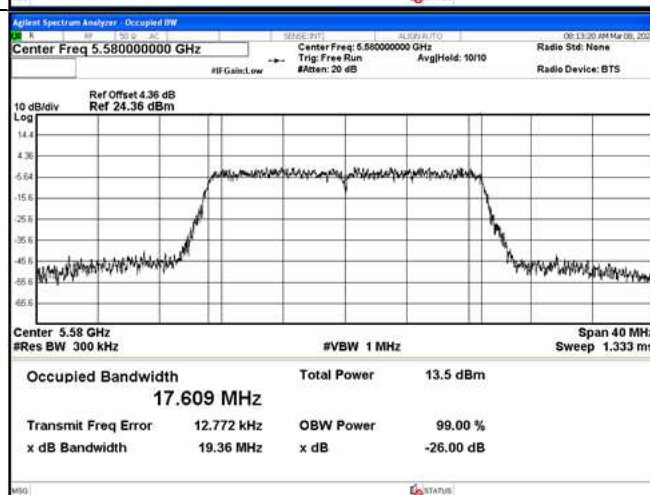
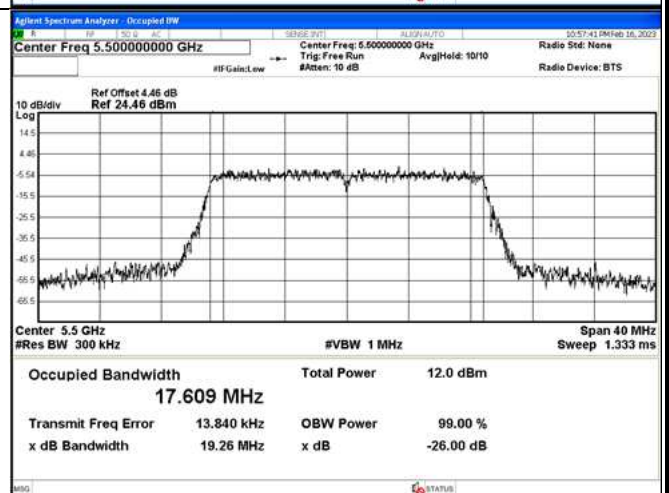
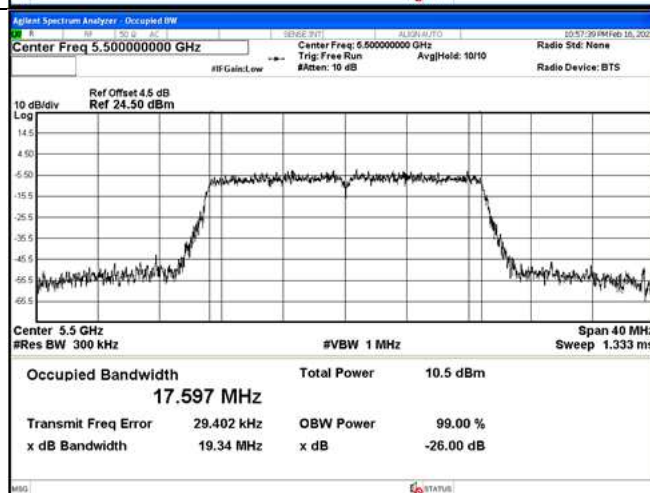
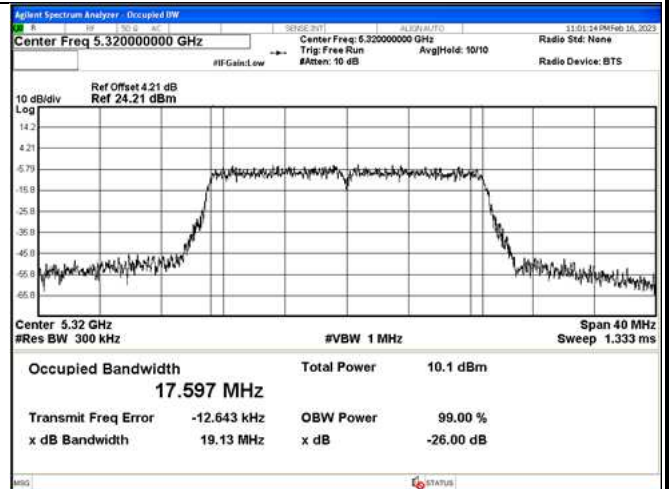
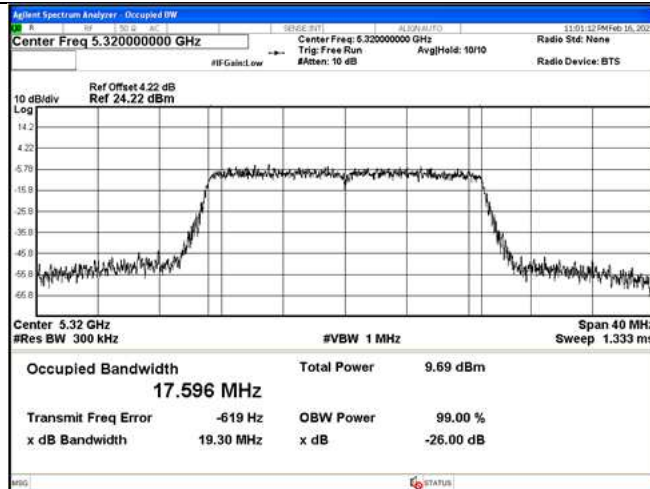


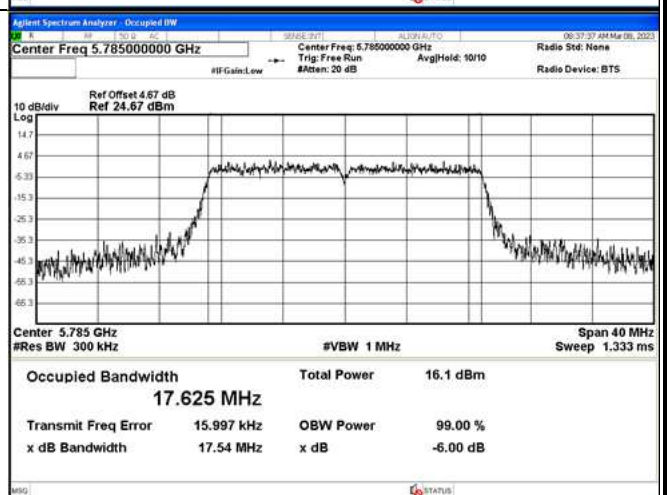
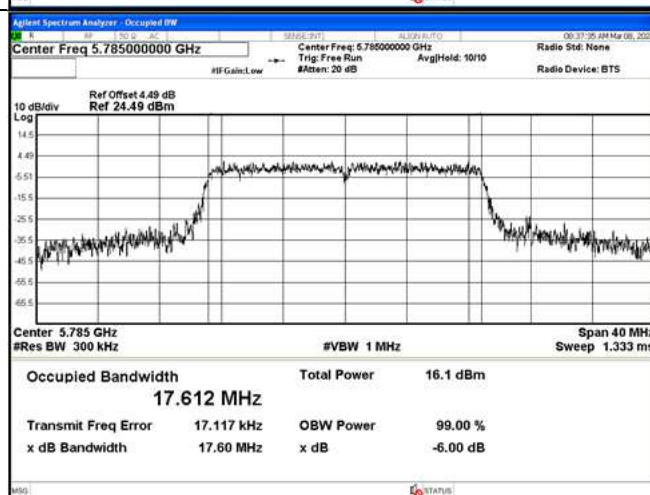
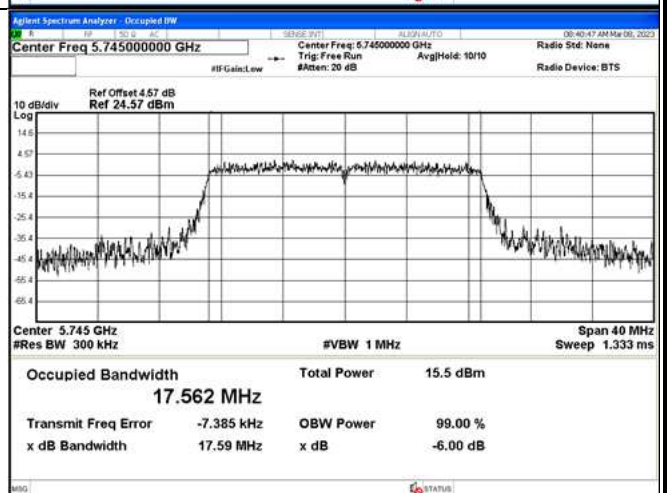
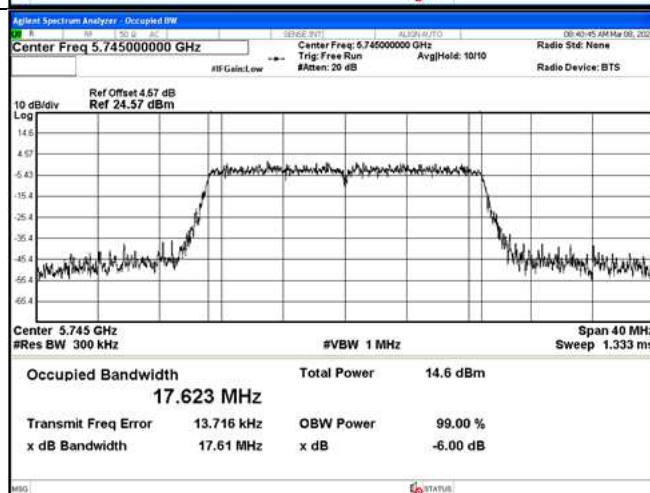
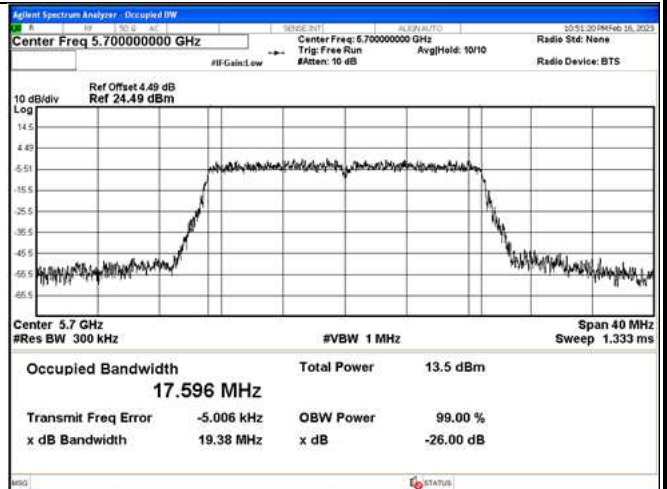
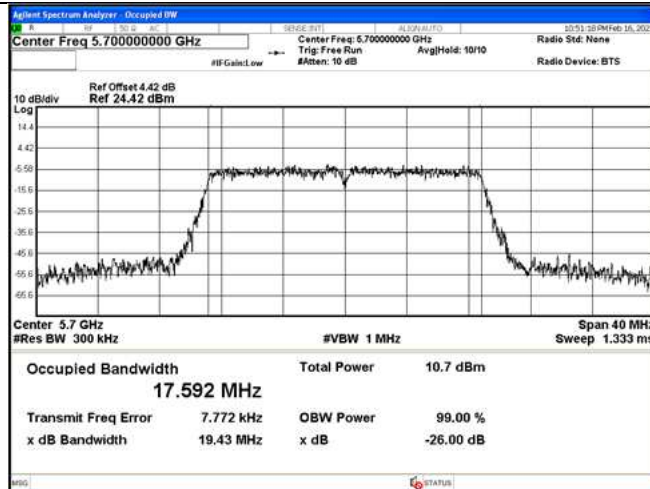
802.11ac(VHT20) mode:

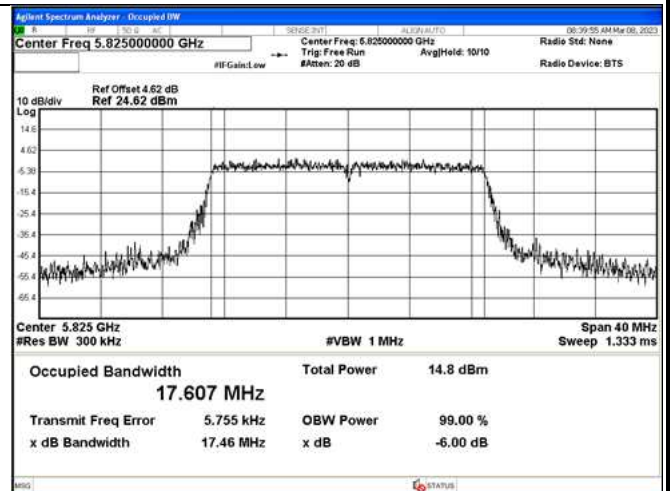
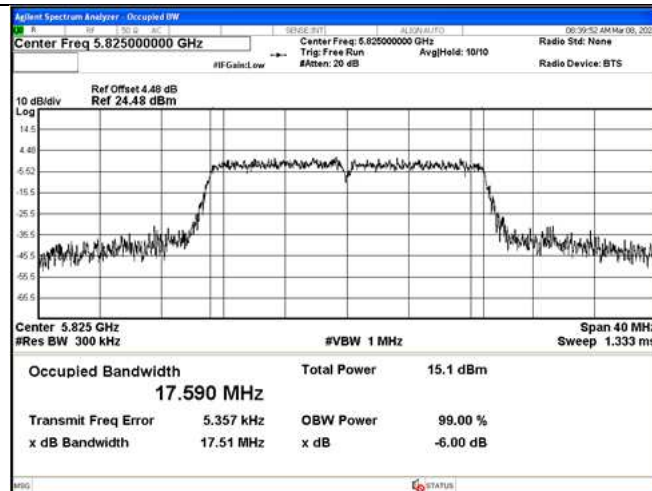
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	19.35	17.6172	19.46	17.5882
44	5200	19.36	17.6051	19.46	17.591
48	5240	19.40	17.6091	19.26	17.5863
52	5260	19.17	17.5969	19.50	17.5864
56	5300	19.26	17.5735	19.57	17.5835
64	5320	19.30	17.5962	19.13	17.5972
100	5500	19.34	17.5969	19.26	17.6087
116	5580	19.32	17.5591	19.32	17.5686
140	5700	19.43	17.5924	19.38	17.596
149	5745	17.63	17.5553	17.65	17.544
157	5785	17.67	17.561	17.67	17.5758
165	5825	17.65	17.5296	17.66	17.5616







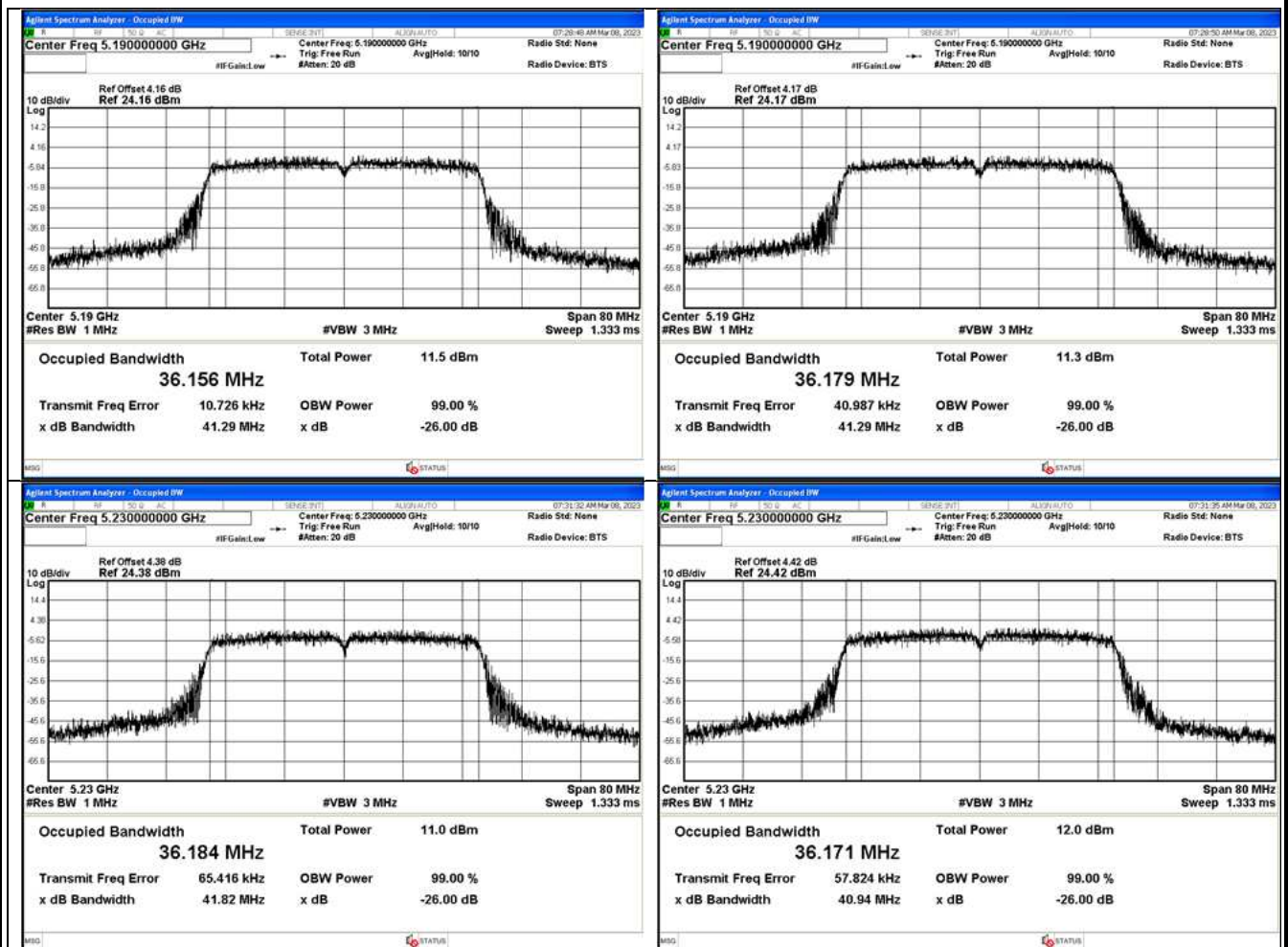


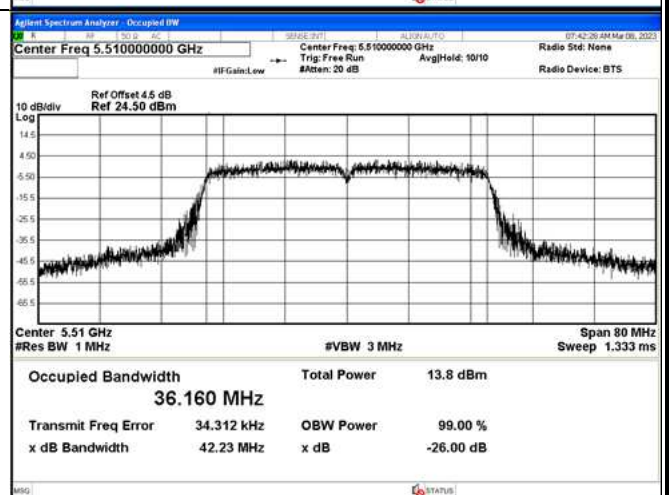
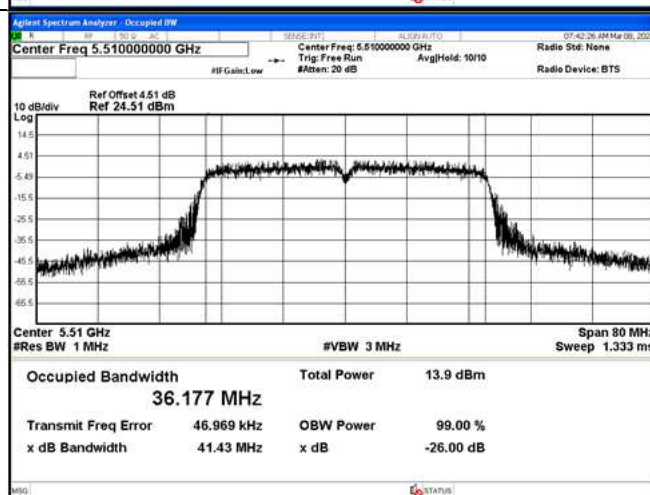
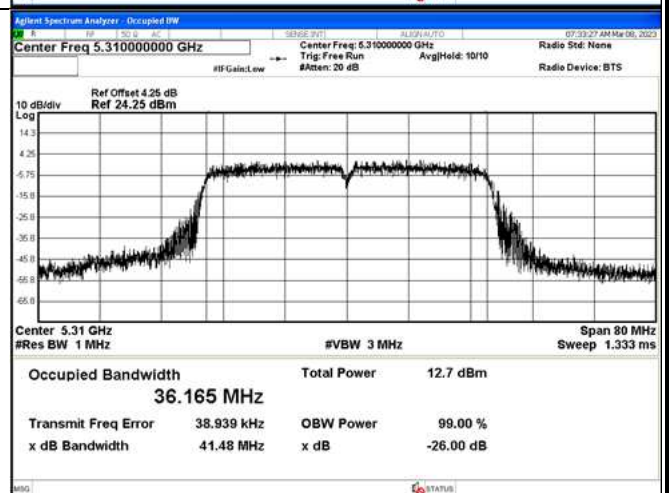
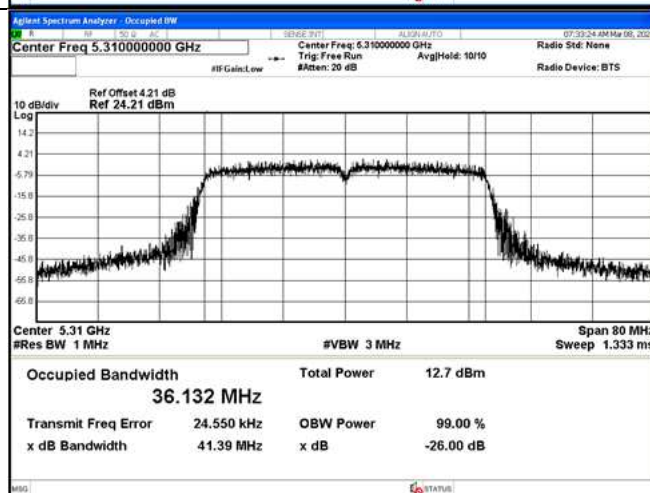
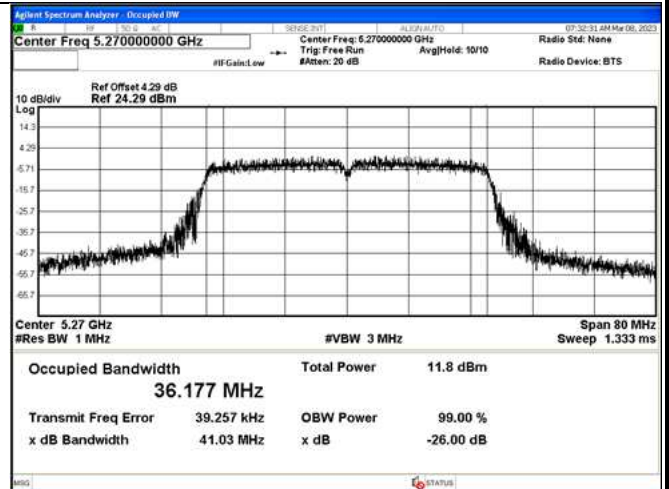
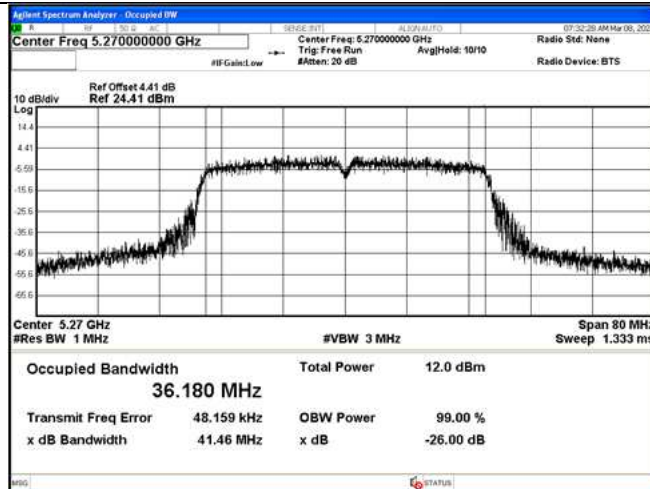


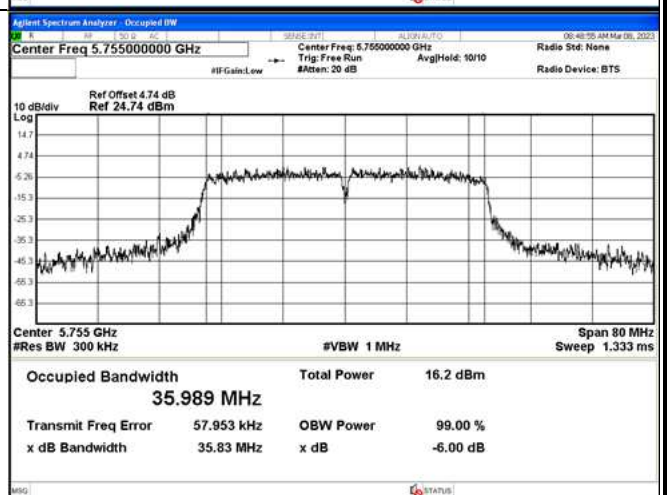
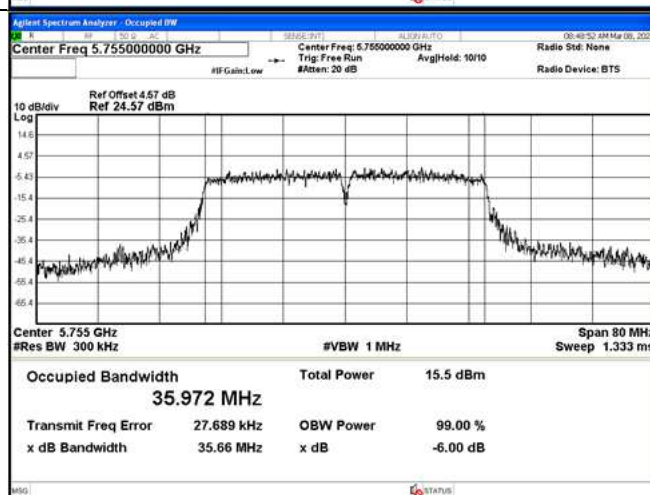
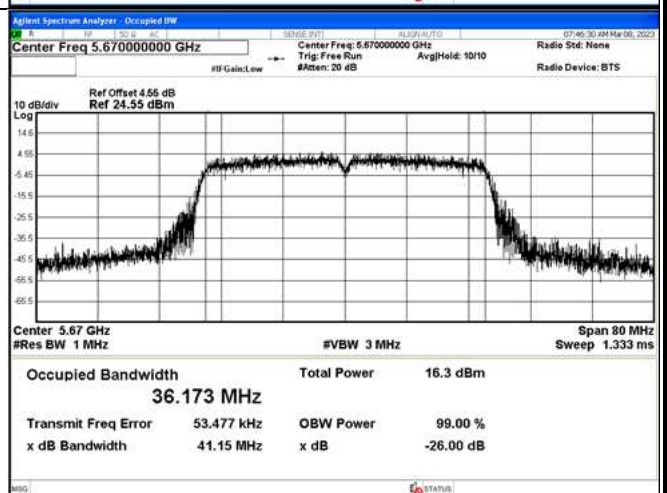
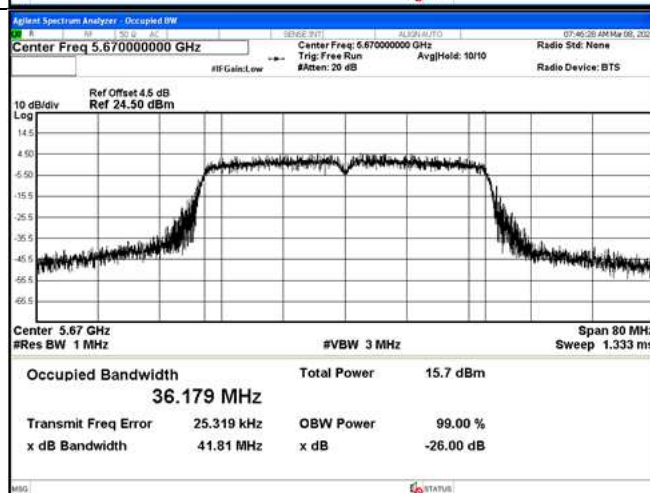
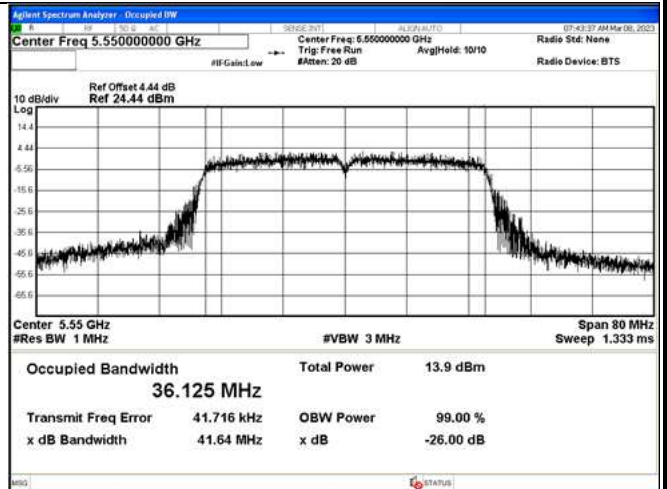
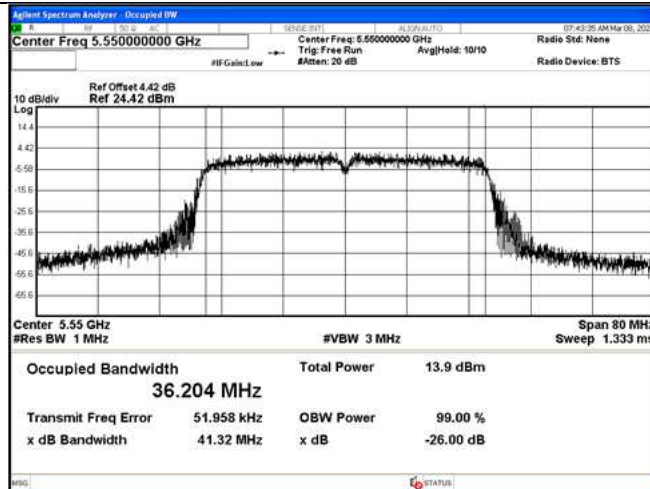
Produkte
Products

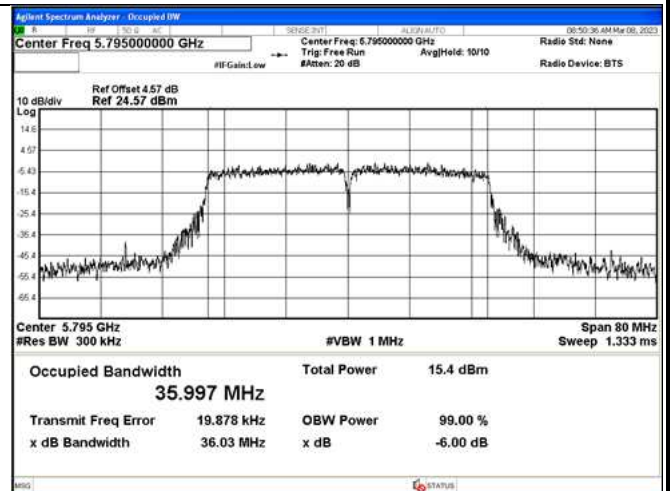
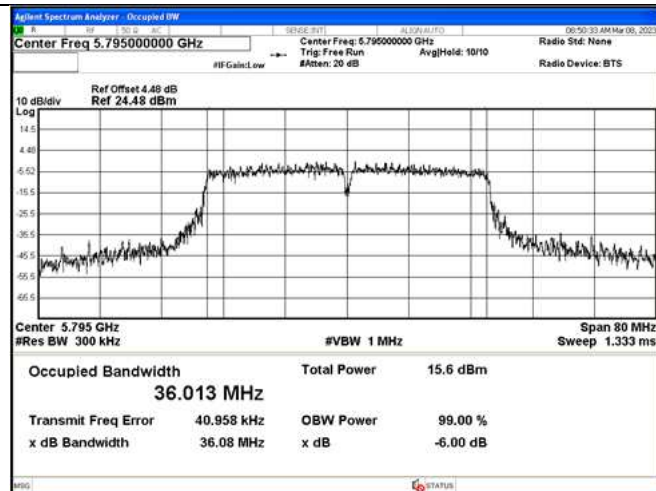
802.11n(HT40) mode:

Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	39.73	35.9635	40.44	36.0107
46	5230	39.94	36.036	39.85	35.989
54	5270	39.39	35.972	40.02	35.975
62	5310	39.14	35.9705	39.81	36.0001
102	5510	39.85	35.924	39.81	35.9901
110	5550	39.87	35.9447	39.81	35.9669
134	5670	39.84	35.9595	39.68	35.9507
151	5755	36.41	36.072	36.37	36.0439
159	5795	36.34	35.9895	36.31	35.9518





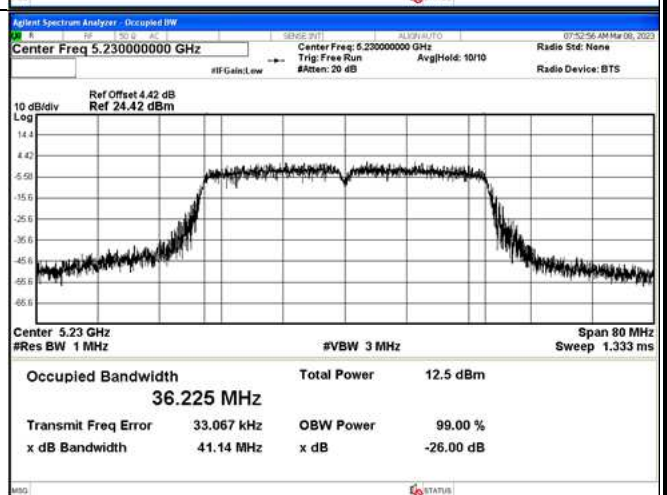
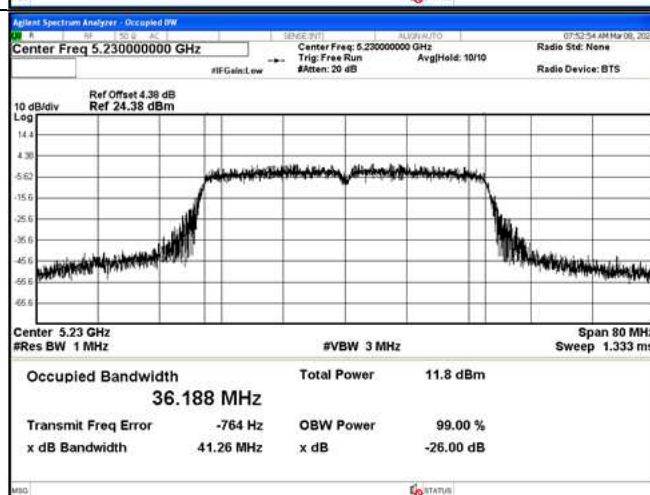
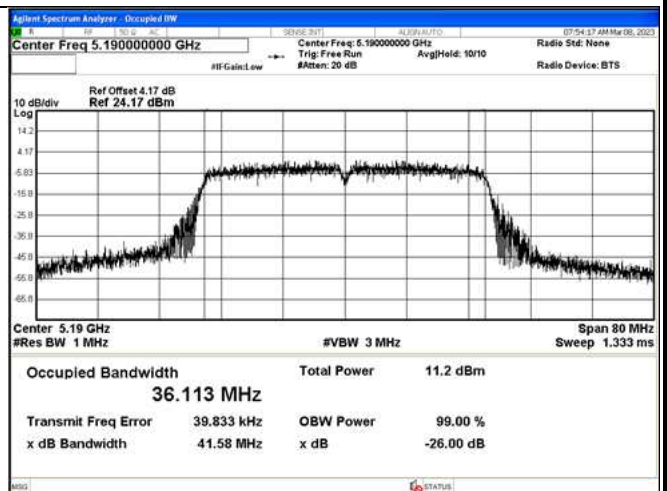
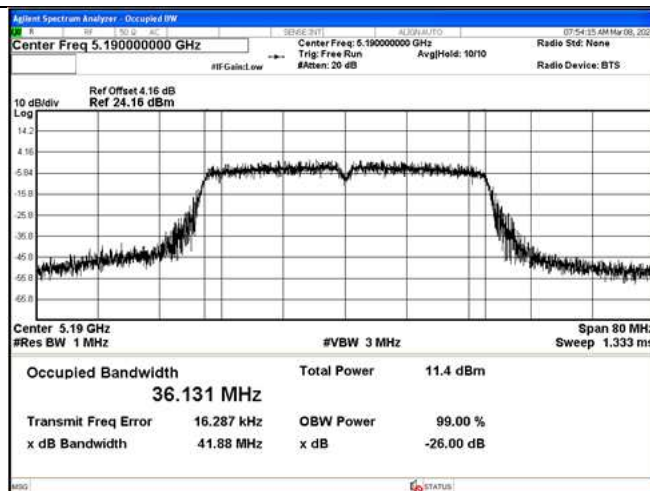


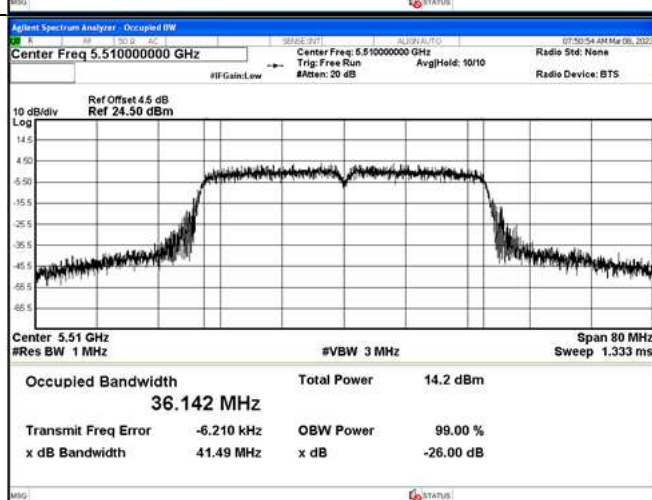
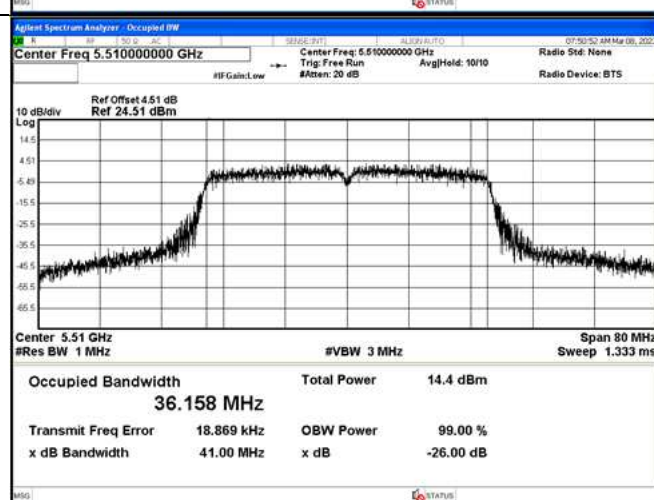
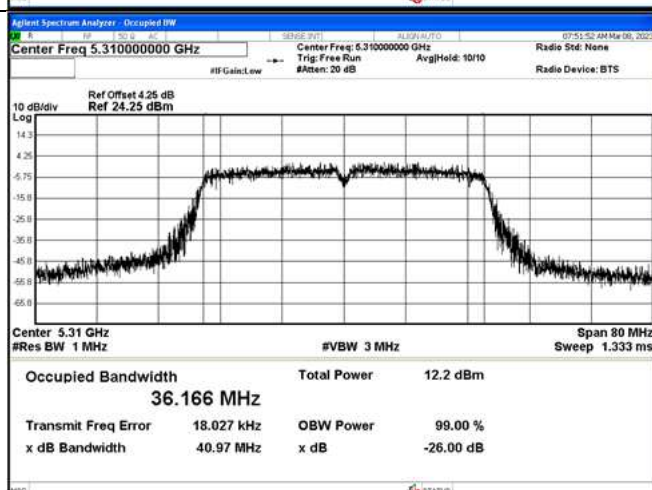
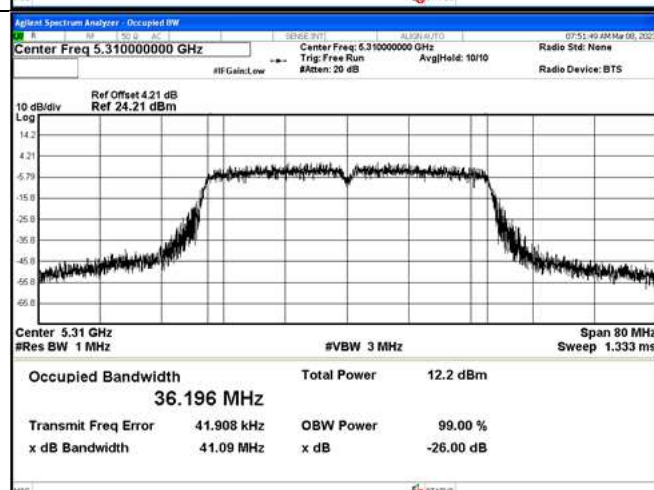
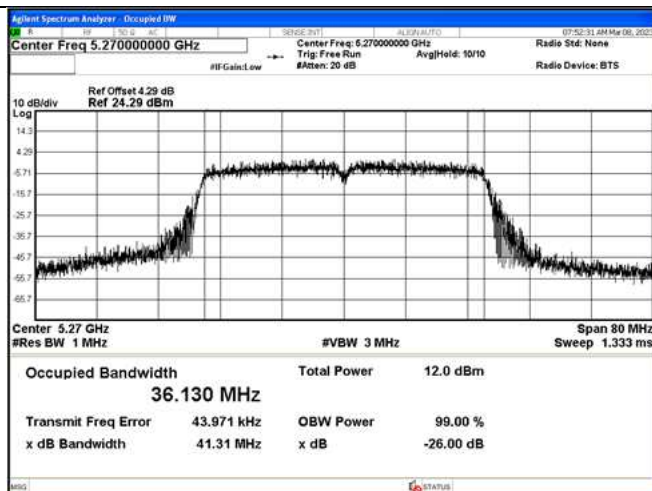
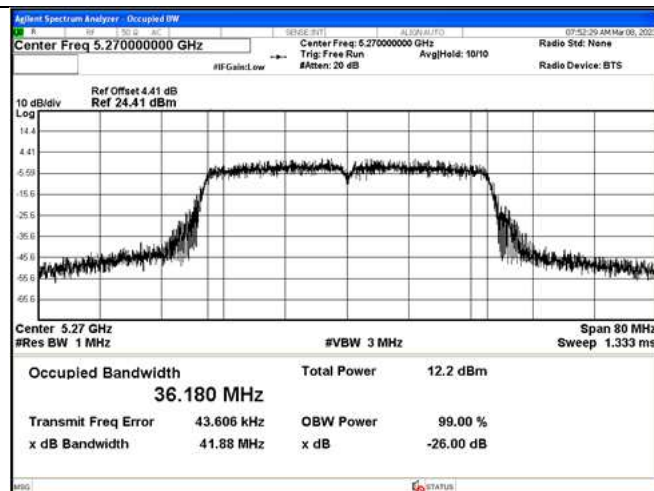


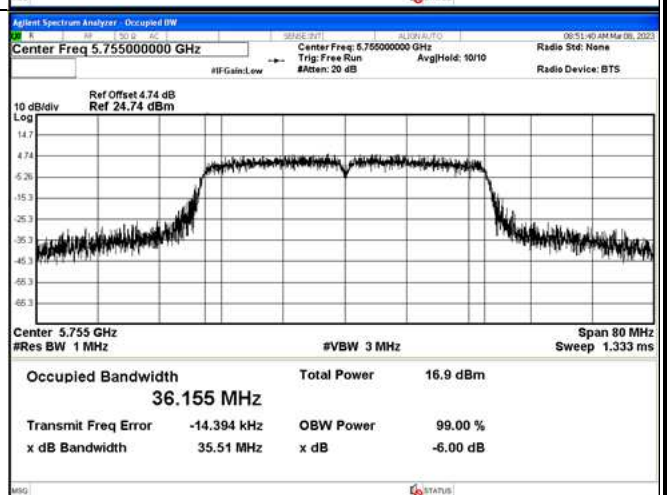
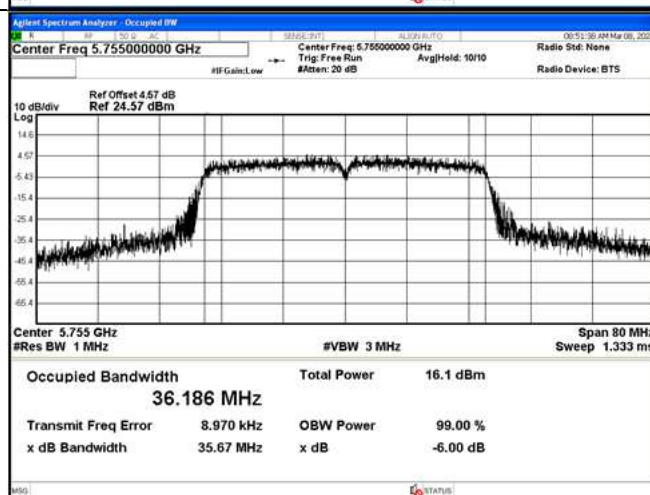
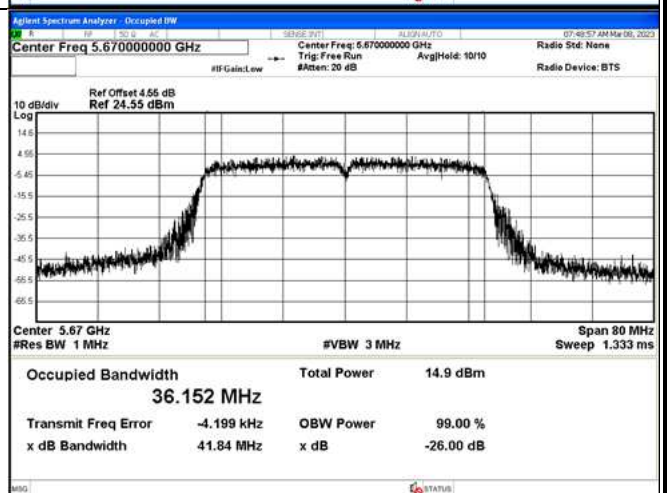
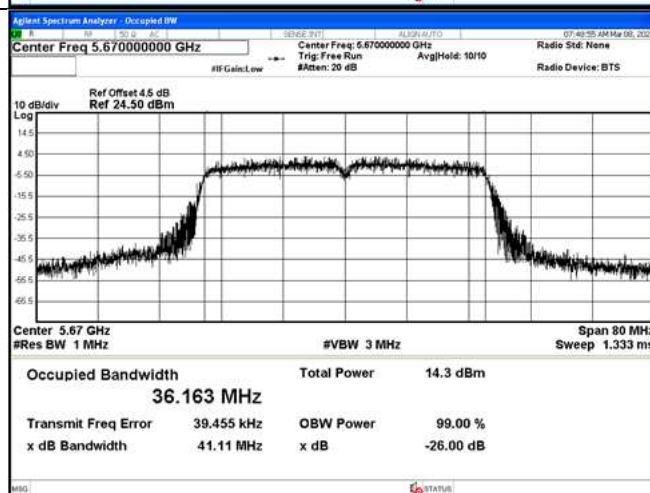
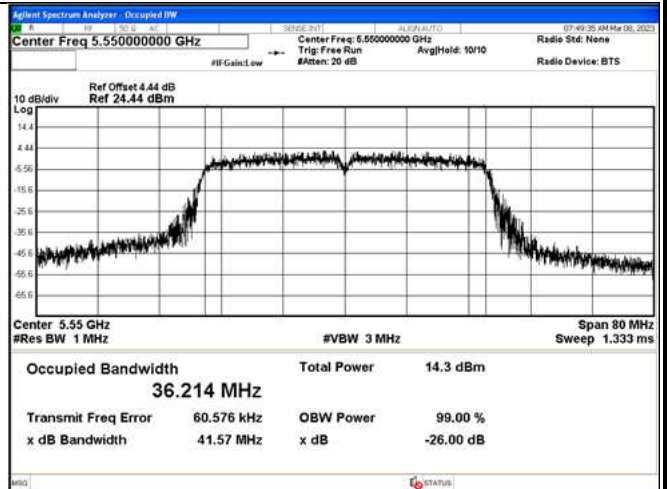
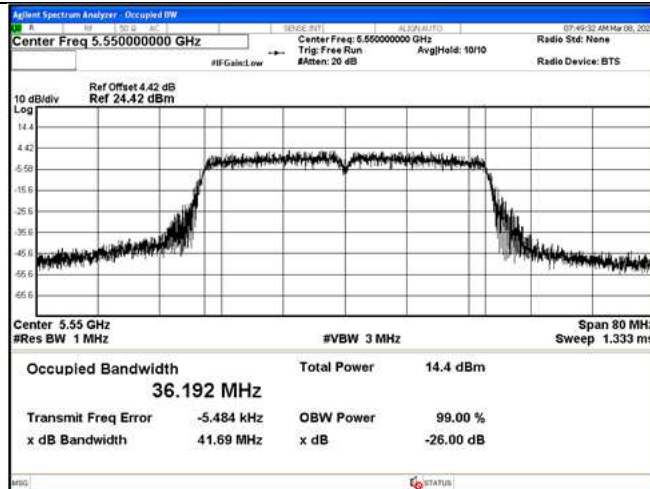
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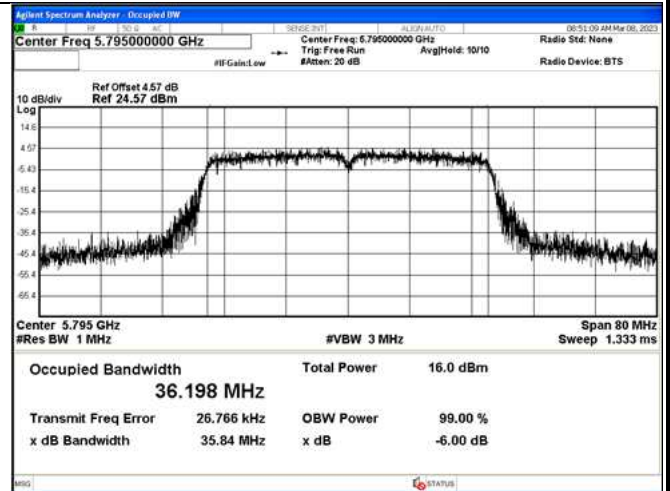
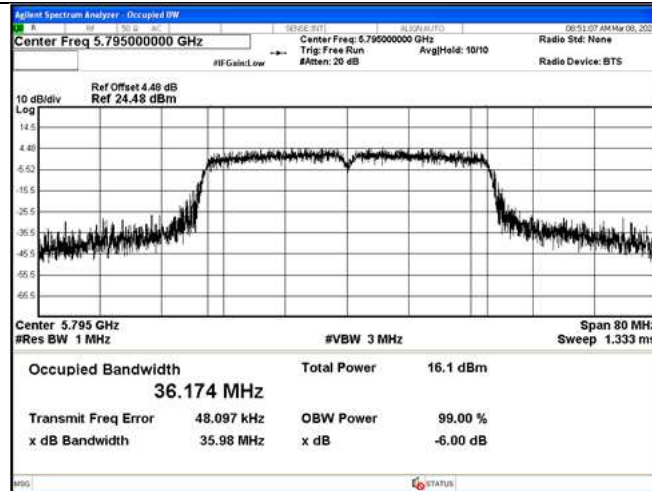
802.11ac(VHT40) mode:

Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	40.00	35.9896	39.37	36.0245
46	5230	39.27	35.943	39.90	36.0068
54	5270	39.03	35.9568	40.00	35.9535
62	5310	39.92	36.0029	40.12	35.9019
102	5510	39.87	35.9846	39.98	36.0542
110	5550	39.46	36.0198	39.82	35.9971
134	5670	39.24	35.9633	39.48	35.9112
151	5755	36.34	36.0322	36.37	36.0266
159	5795	36.34	35.9449	36.37	35.9995



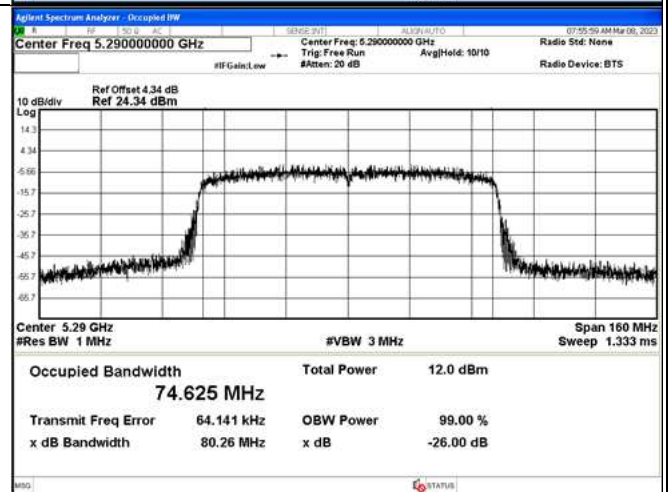
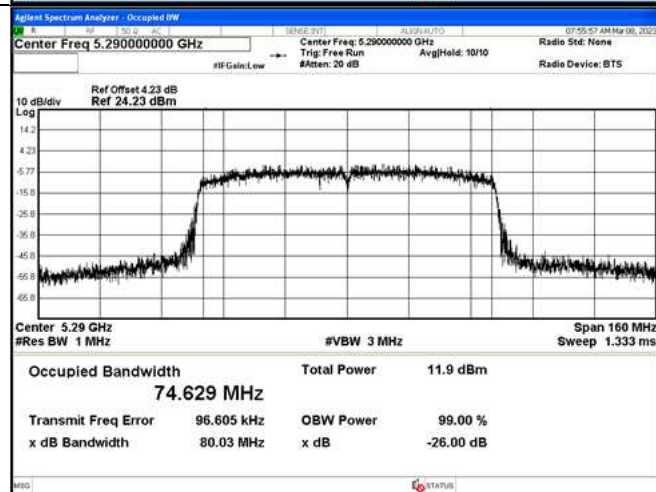
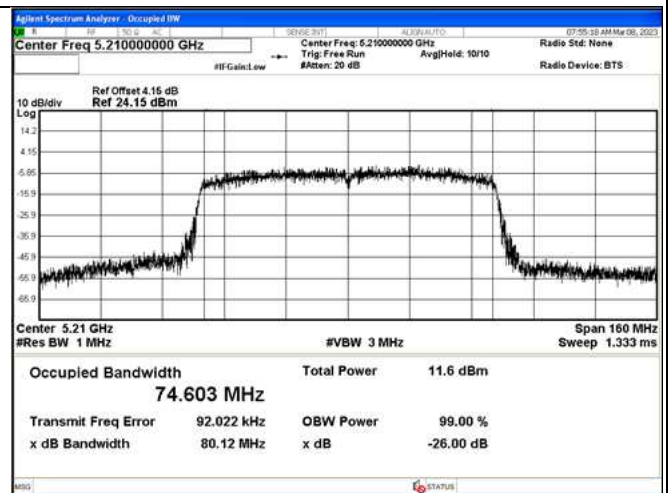
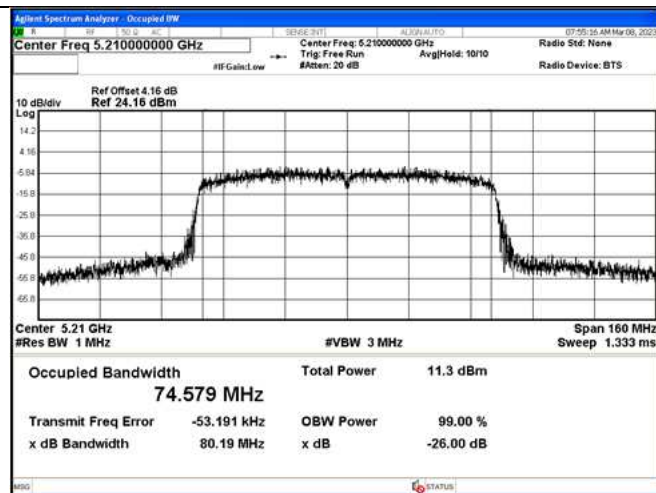


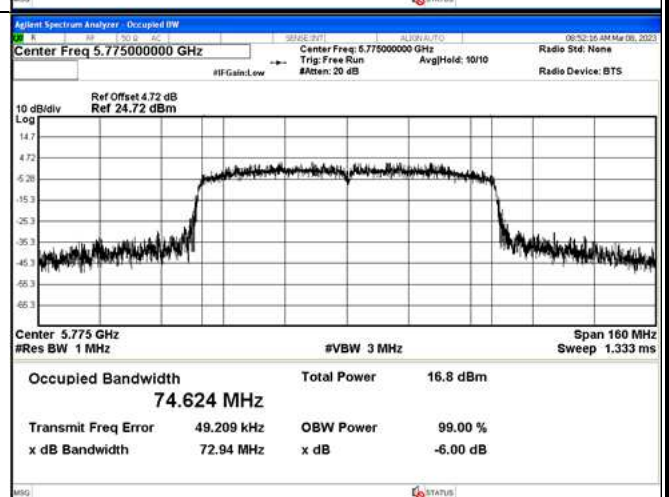
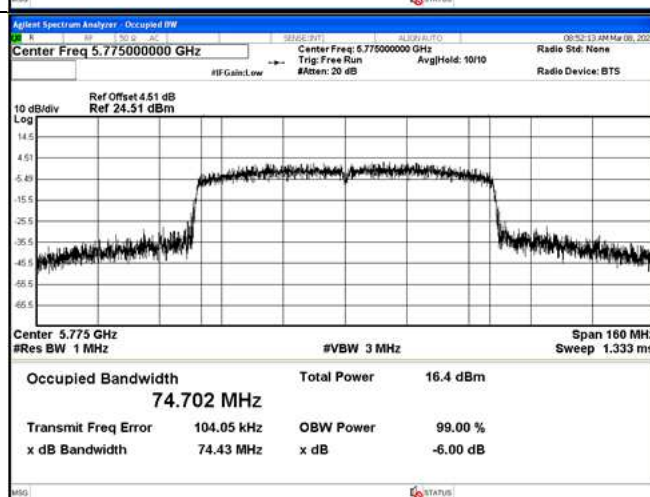
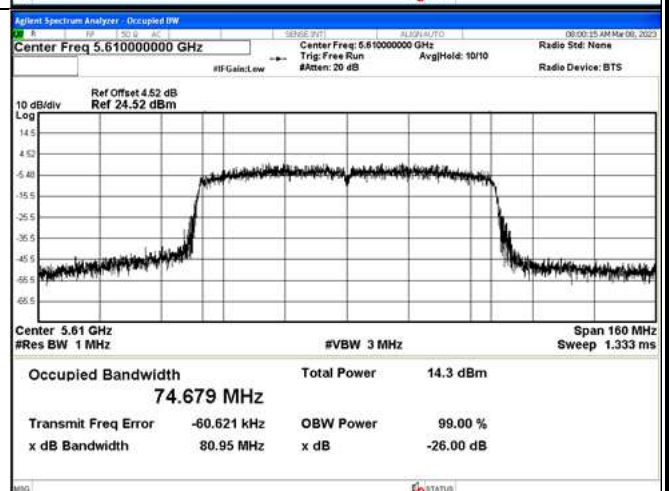
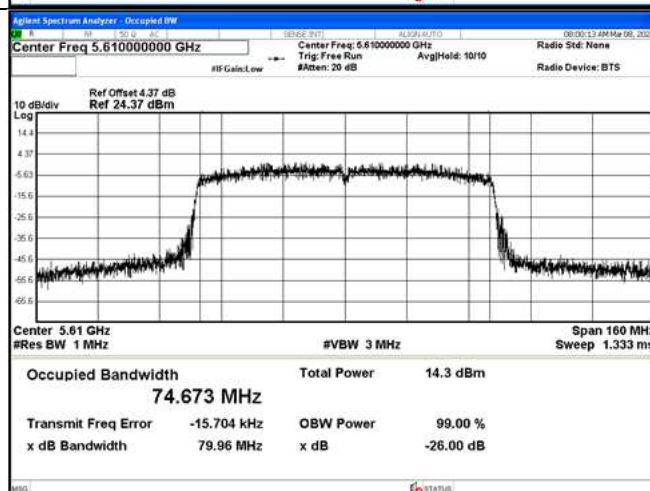
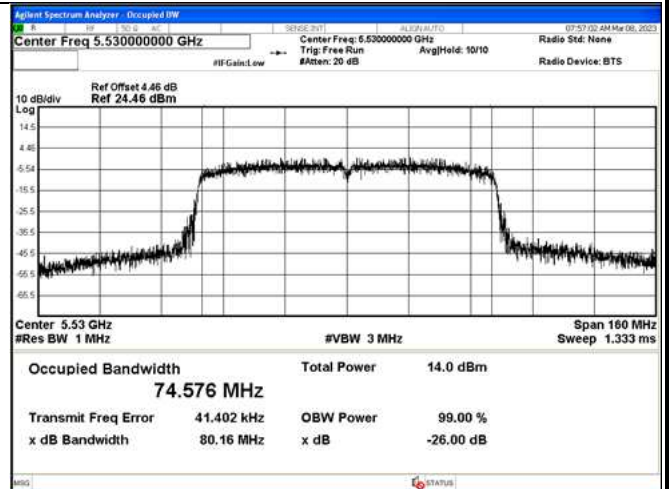
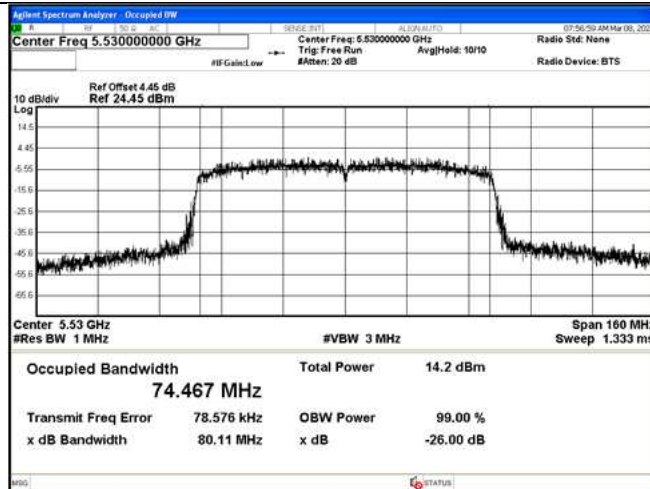




802.11ac(VHT80) mode:

Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
42	5210	79.08	74.6657	78.70	74.4169
58	5290	78.24	74.5030	78.94	74.4925
106	5530	78.42	74.6211	79.22	74.5240
138	5610	77.73	74.6692	79.12	74.7643
155	5775	74.61	74.4692	74.83	74.6400





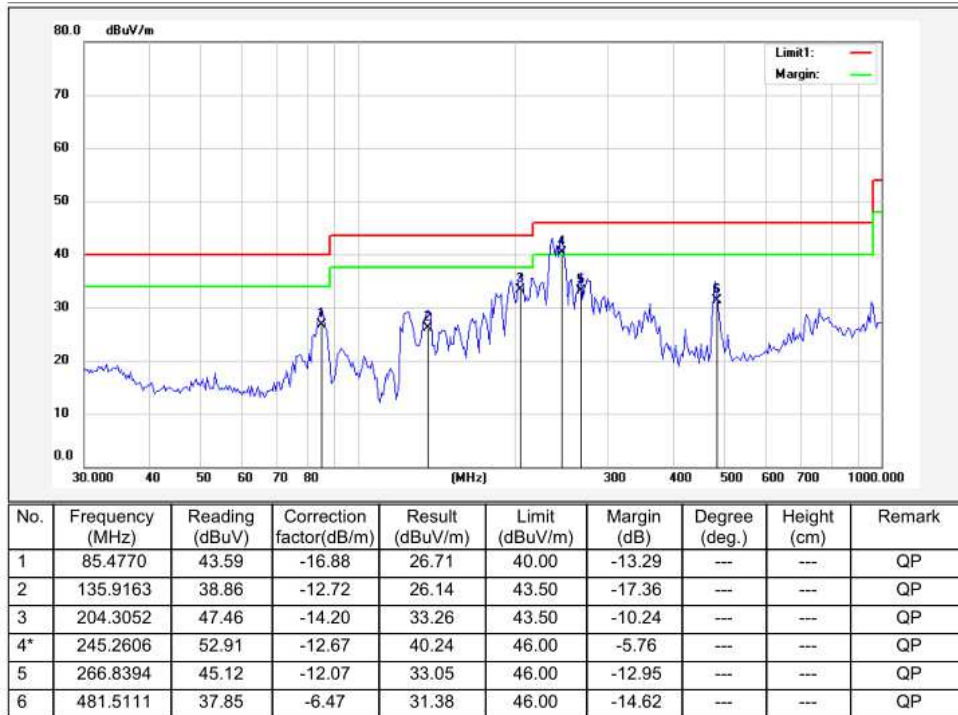
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

All the data rate and configurations have been tested and only the worst case mode (802.11a and n(HT40)) reported.

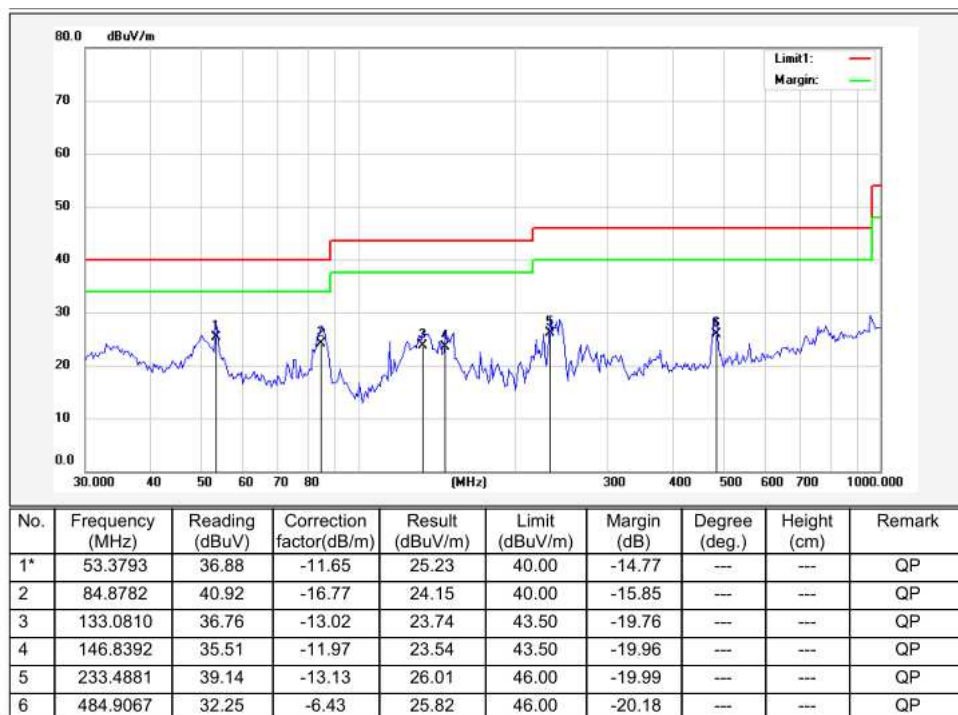
Appendix B.4: Test Results of Radiated Spurious Emissions

30MHz - 1GHz

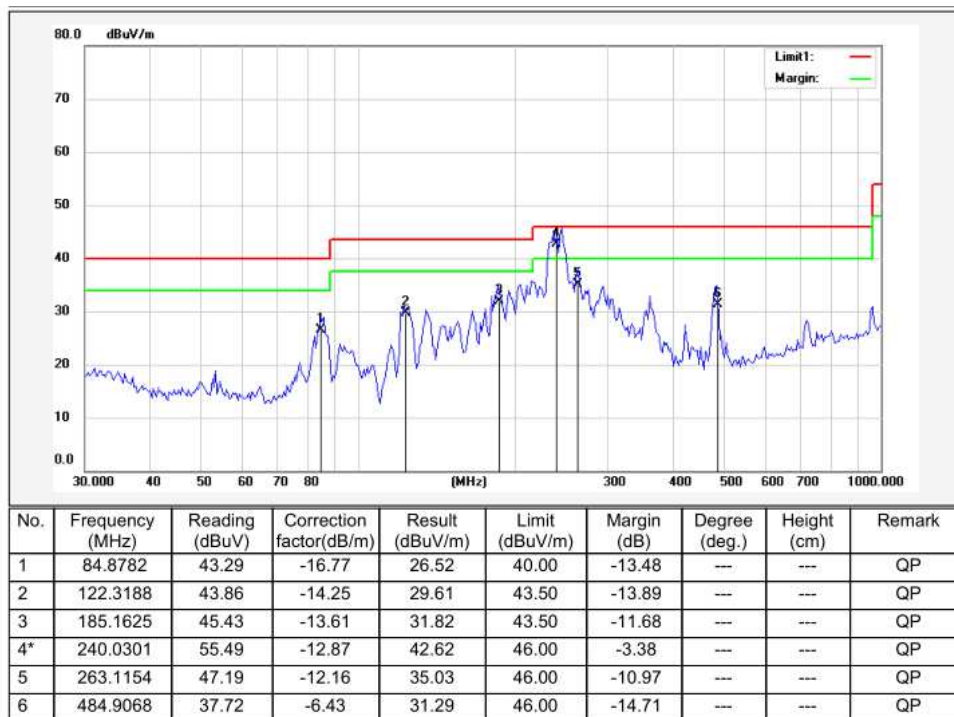
Wi-Fi 5G 11a_5180MHz Horizontal



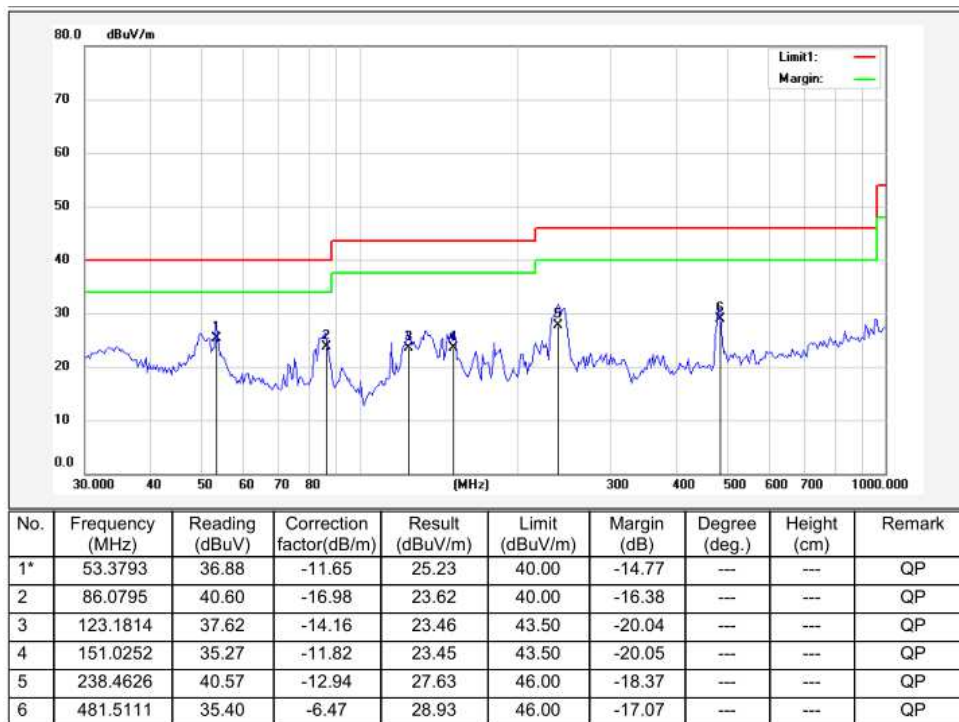
Wi-Fi 5G 11a_5180MHz Vertical



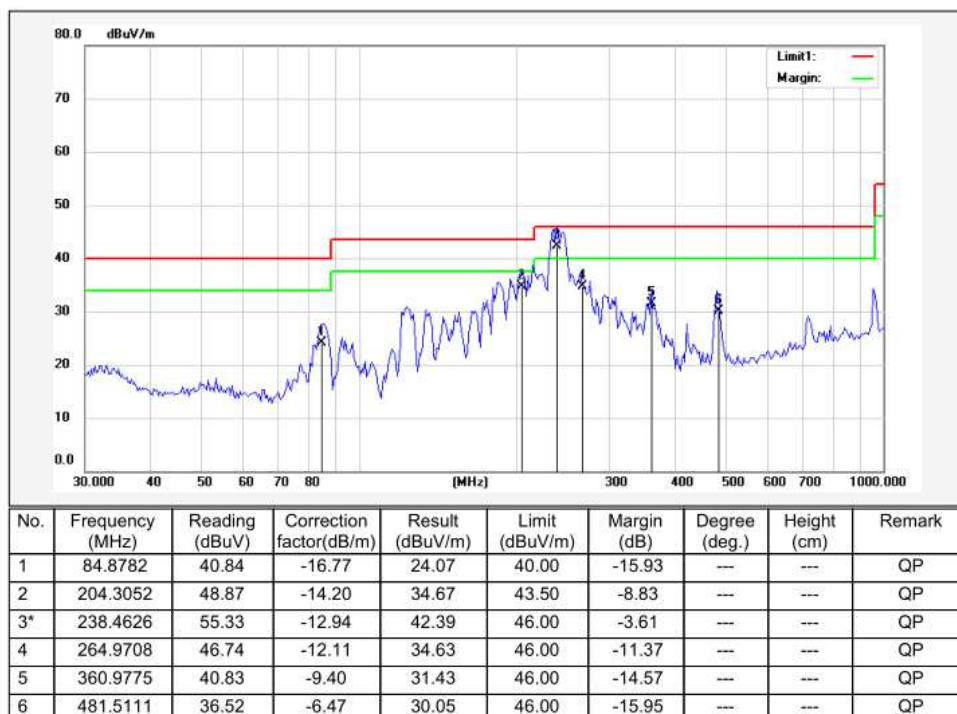
Wi-Fi 5G 11ac20_5200MHz Horizontal



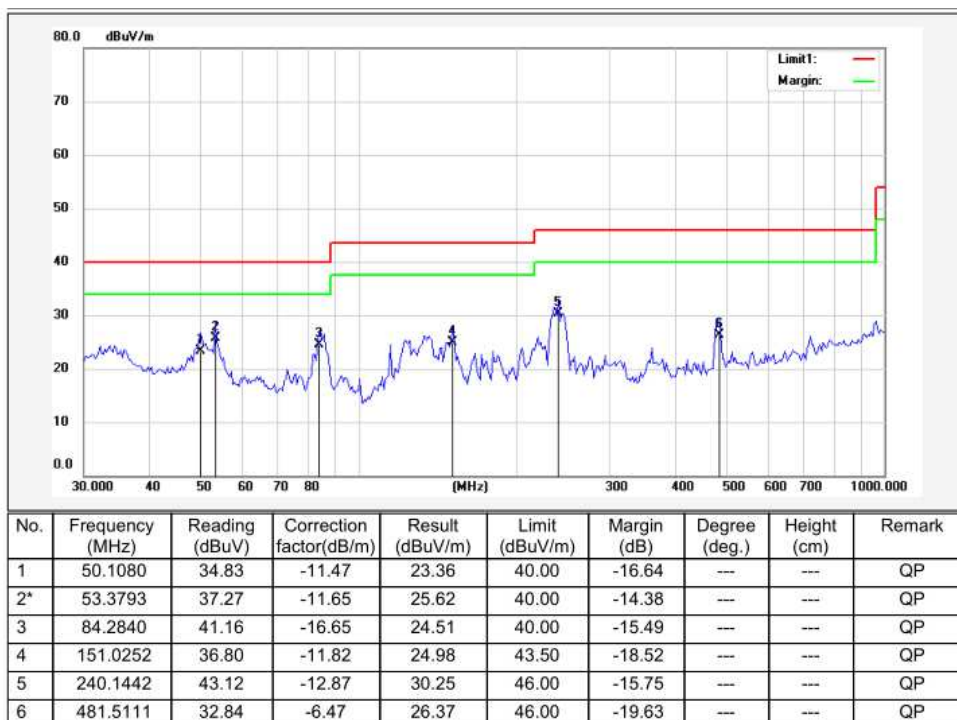
Wi-Fi 5G 11ac20_5200MHz Vertical



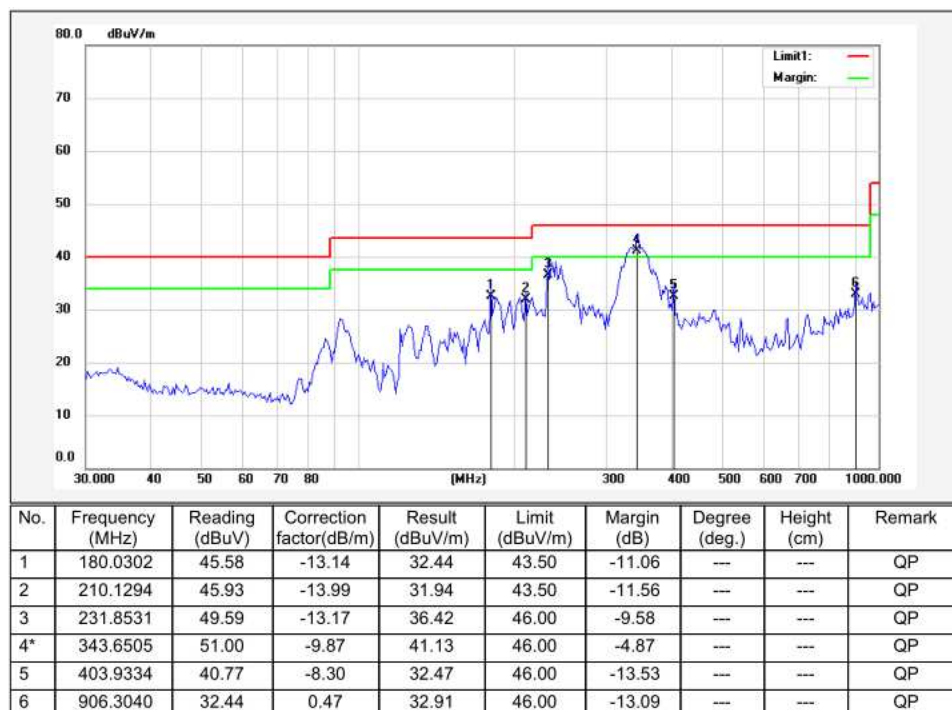
Wi-Fi 5G 11n20_5320MHz Horizontal



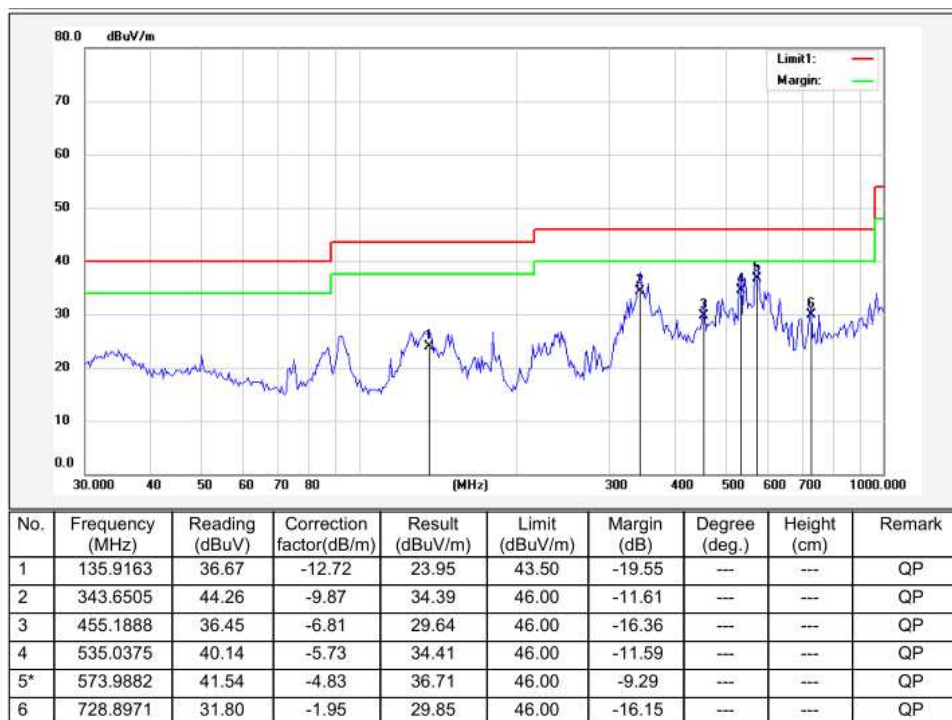
Wi-Fi 5G 11n20_5320MHz Vertical



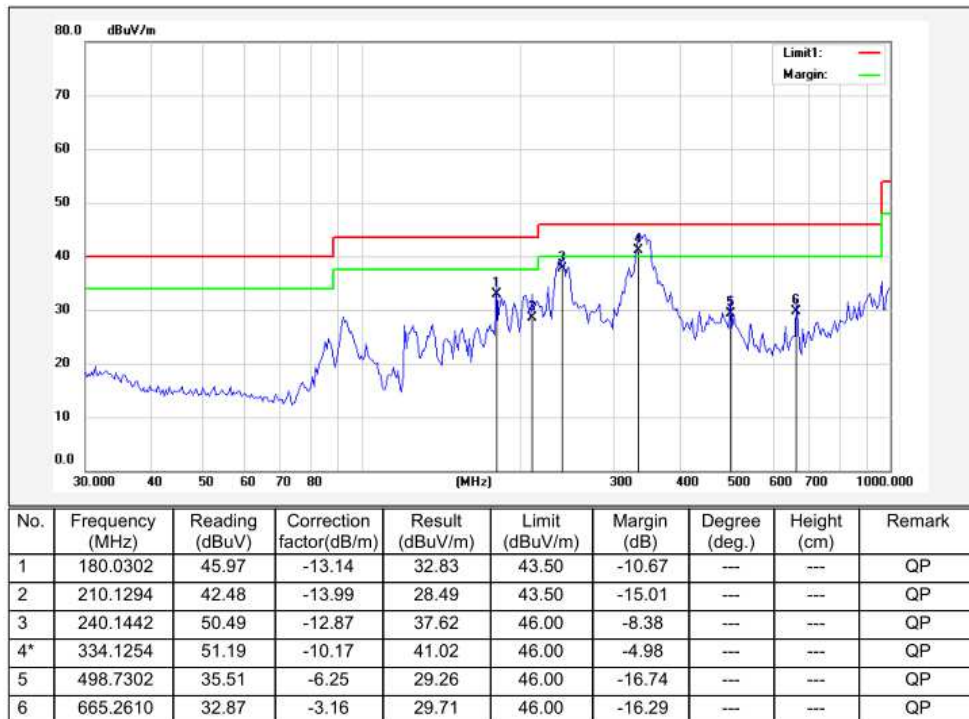
Wi-Fi 5G 11ac40_5190MHz Horizontal



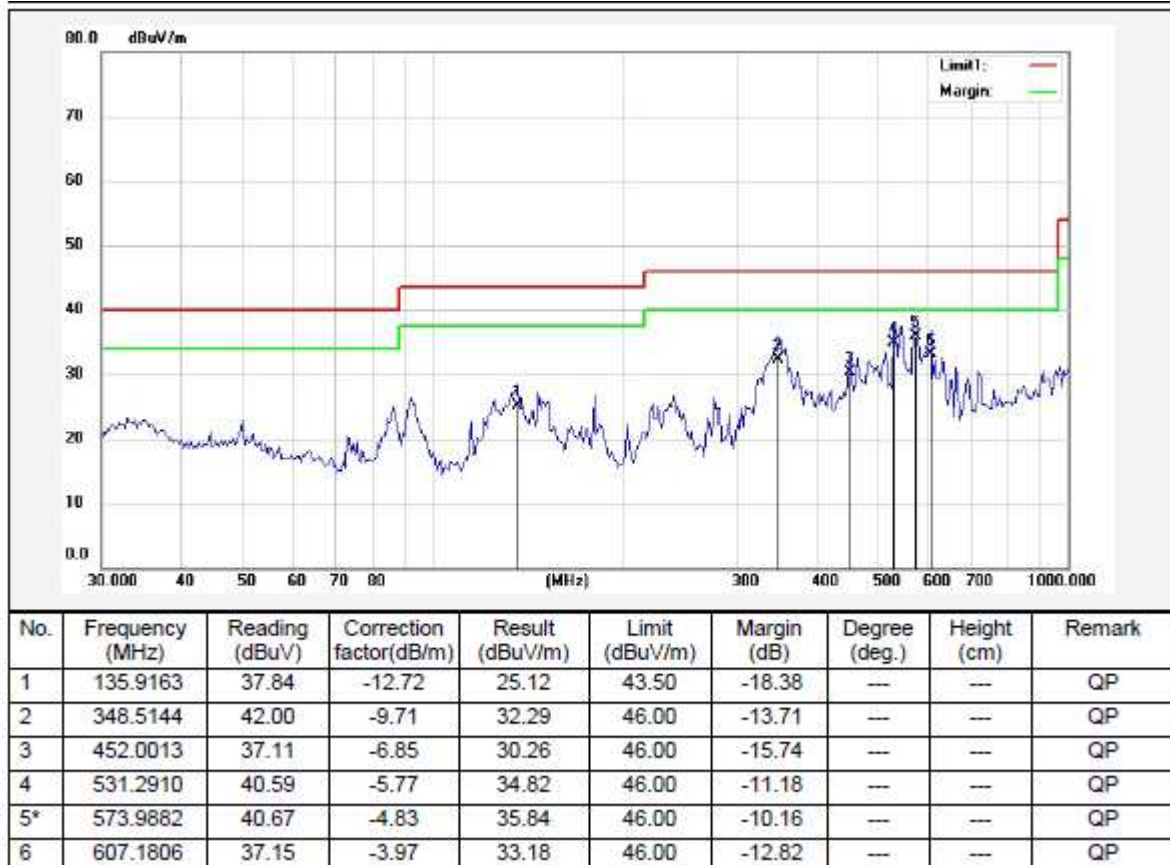
Wi-Fi 5G 11ac40_5190MHz Vertical



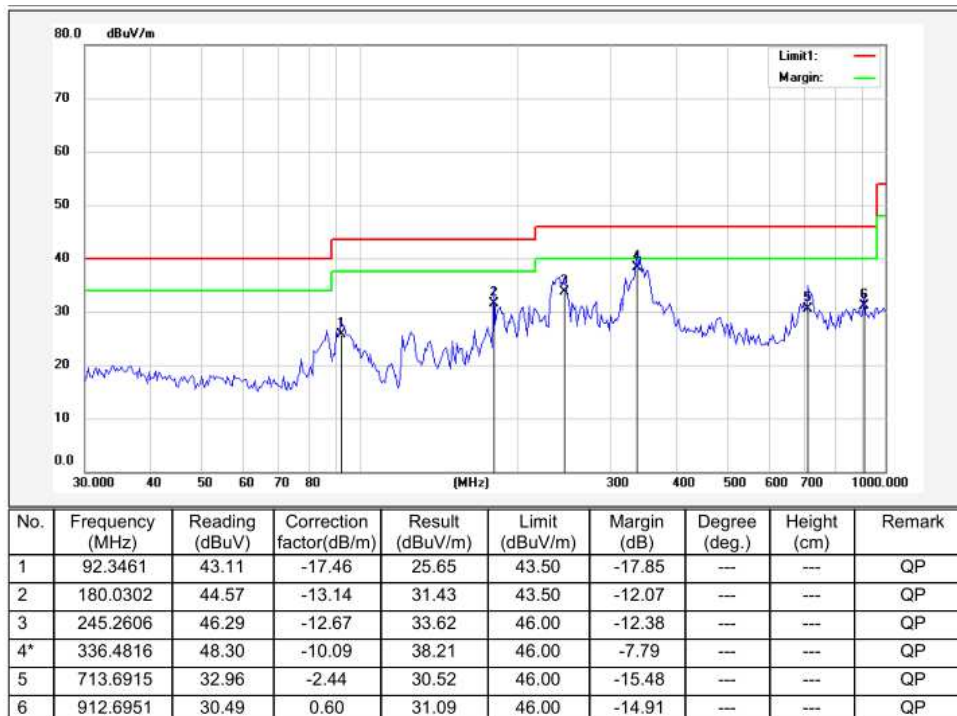
Wi-Fi 5G 11n40_5190MHz Horizontal



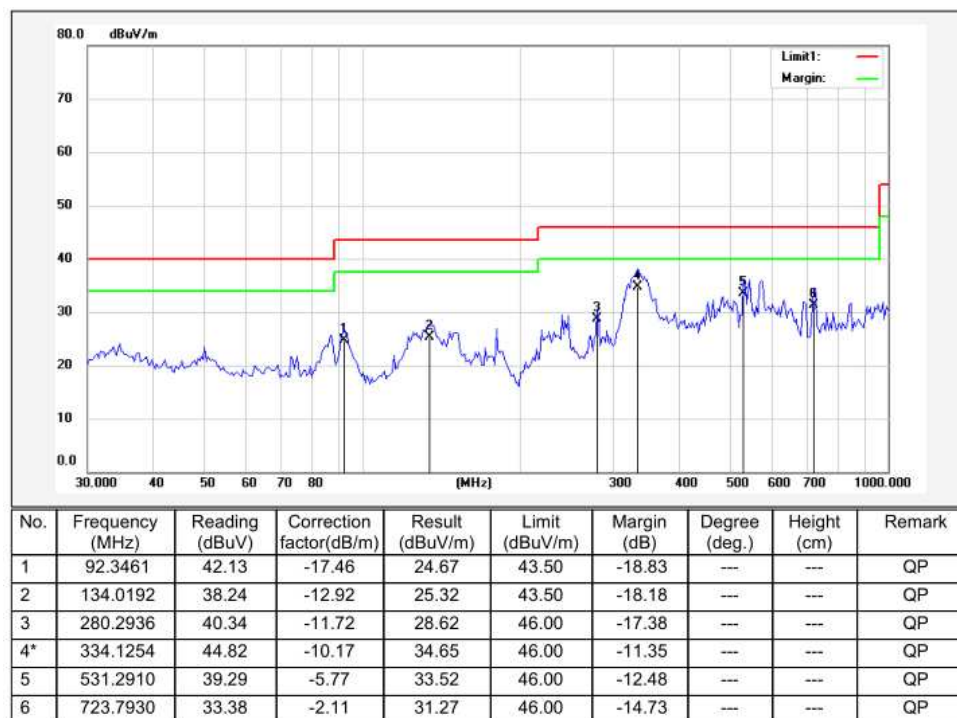
Wi-Fi 5G 11n40_5190MHz Vertical



Wi-Fi 5G 11ac80_5290MHz Horizontal



Wi-Fi 5G 11ac80_5290MHz Vertical



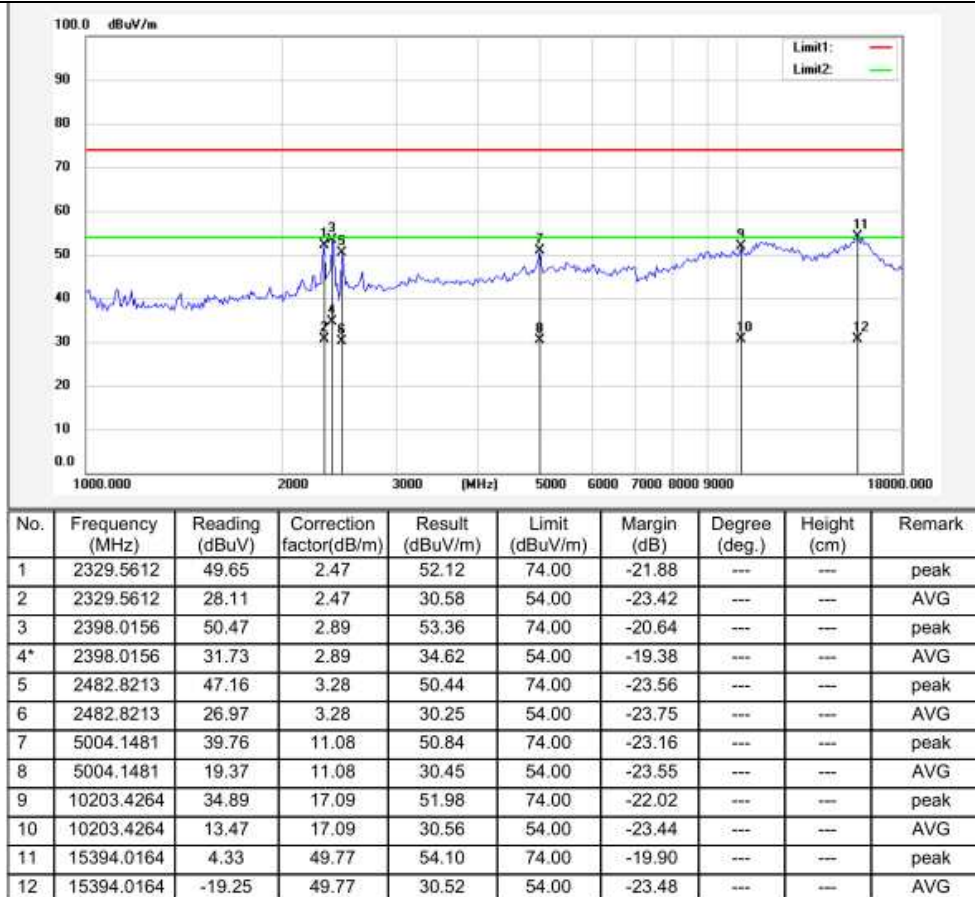
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1GHz - 18GHz

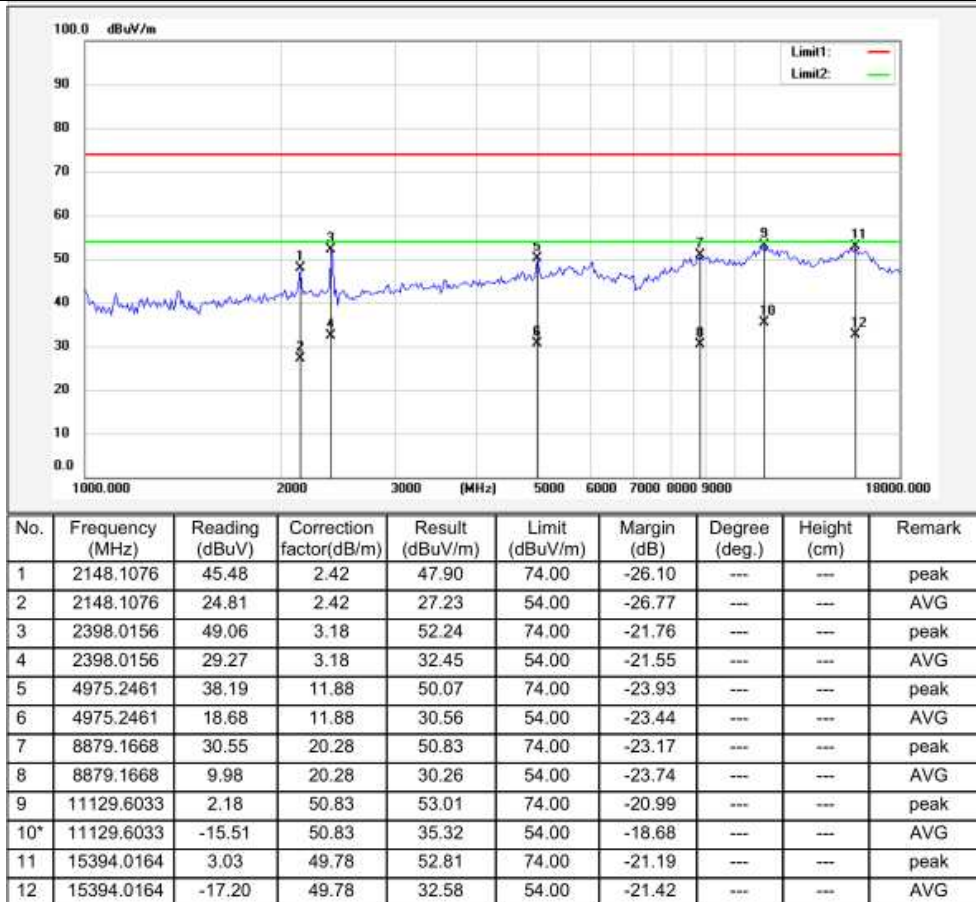
Note: The highest waveform in the figure is Wi-Fi Fundamental.

Wi-Fi 5G 802.11a:

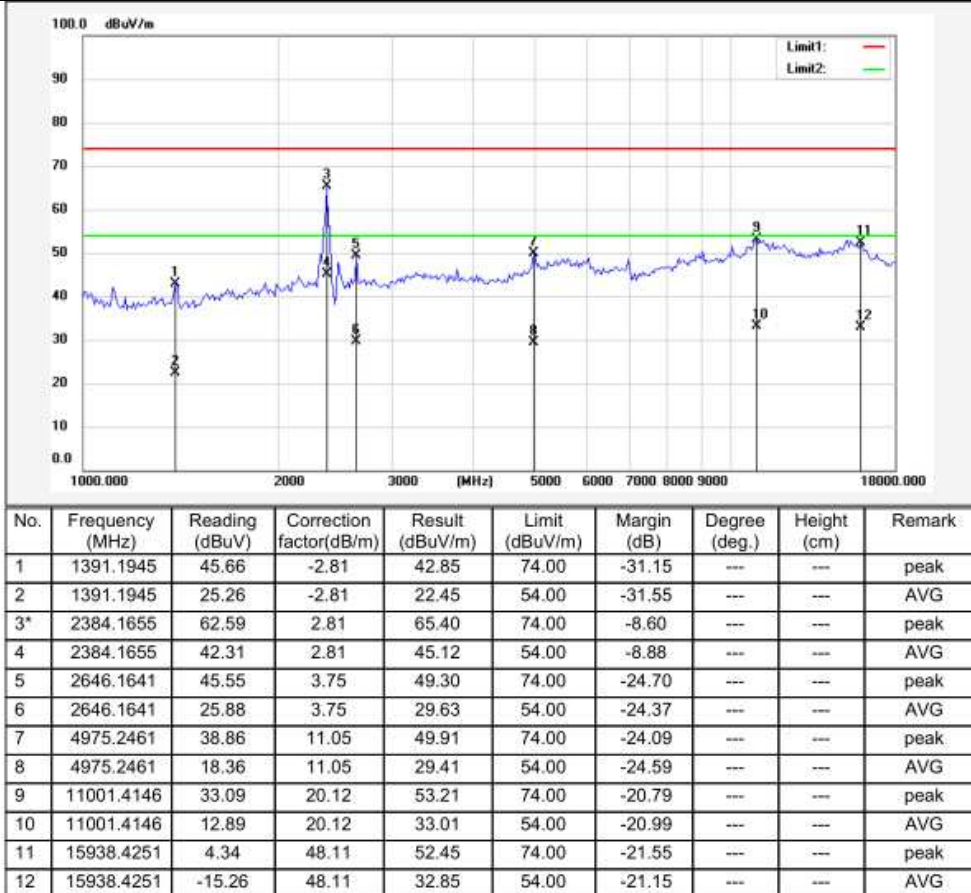
Wi-Fi 5G 11a_5180MHz Horizontal



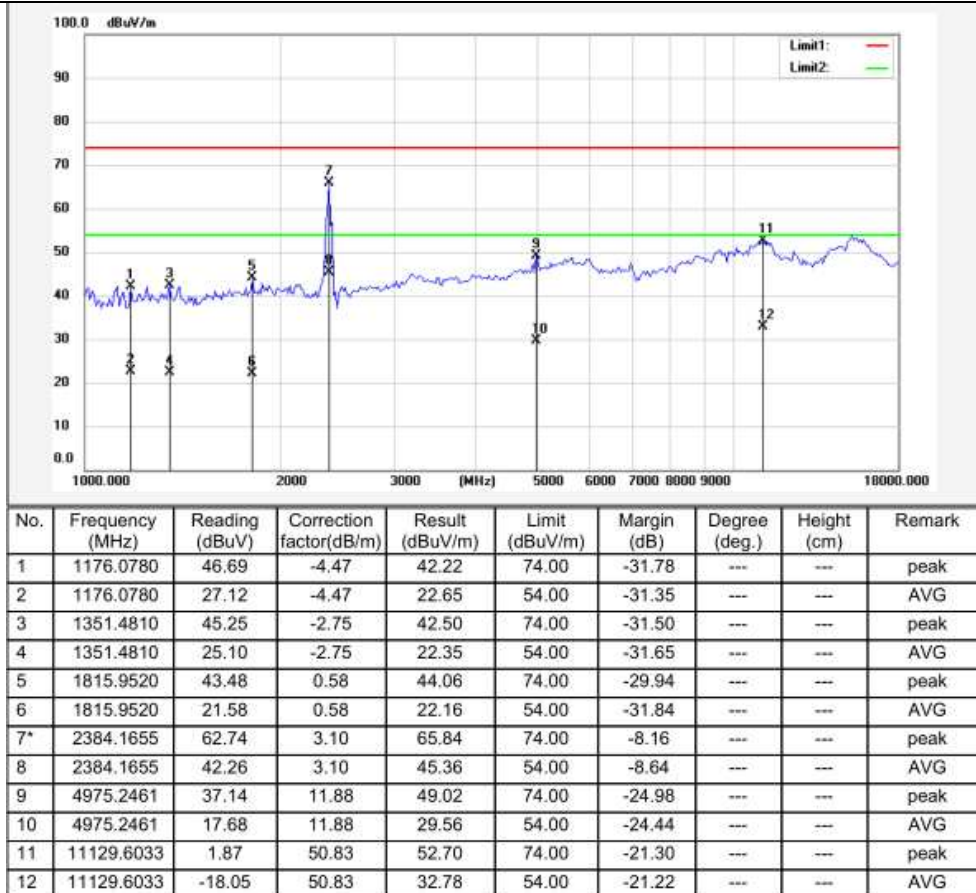
Wi-Fi 5G 11a_5180MHz Vertical



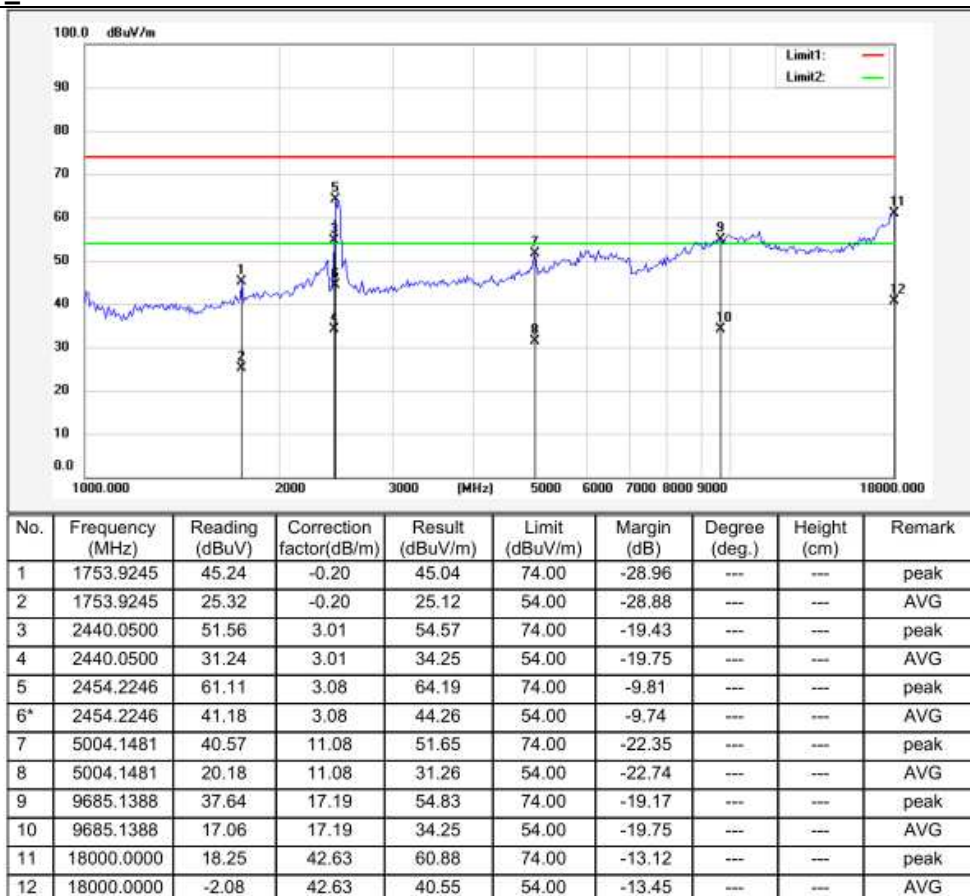
Wi-Fi 5G 11a_5200MHz Horizontal



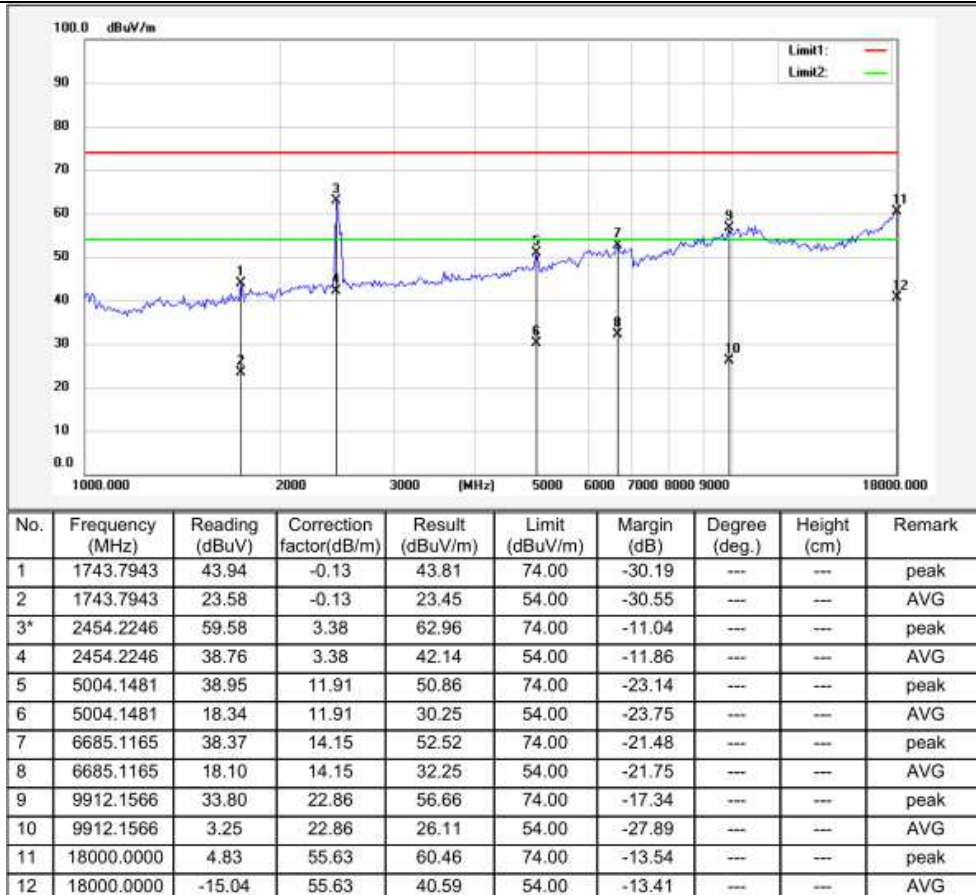
Wi-Fi 5G 11a_5200MHz Vertical



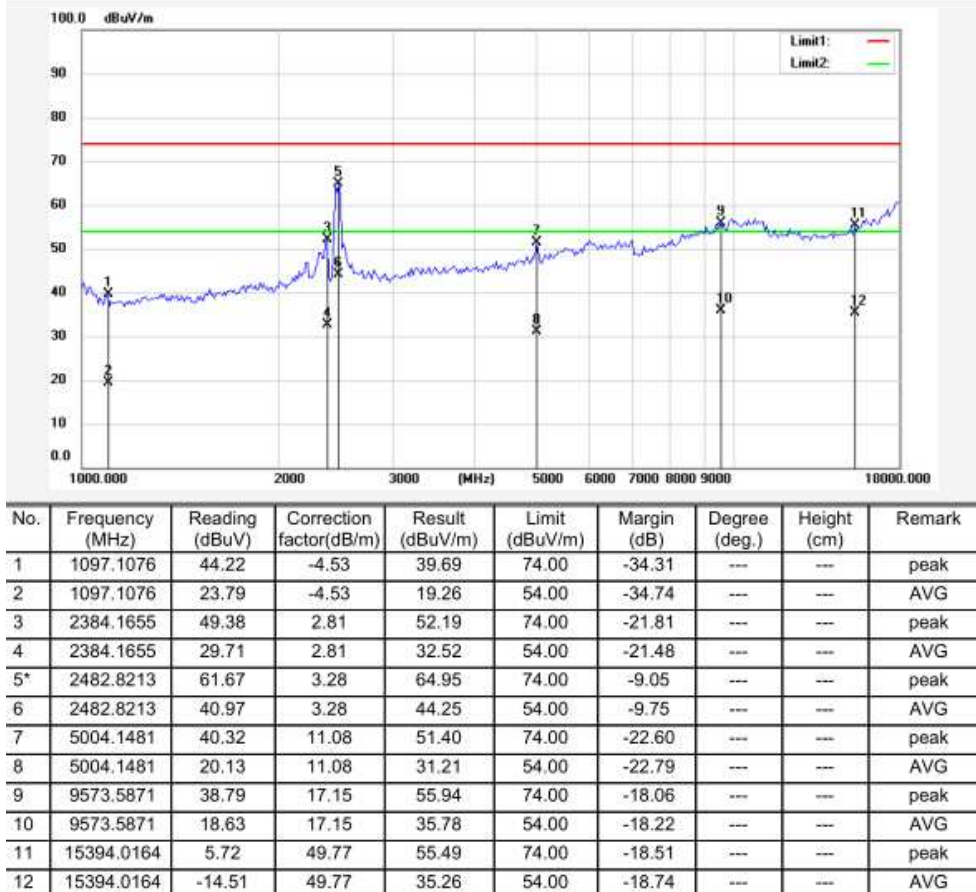
Wi-Fi 5G 11a_5240MHz Horizontal



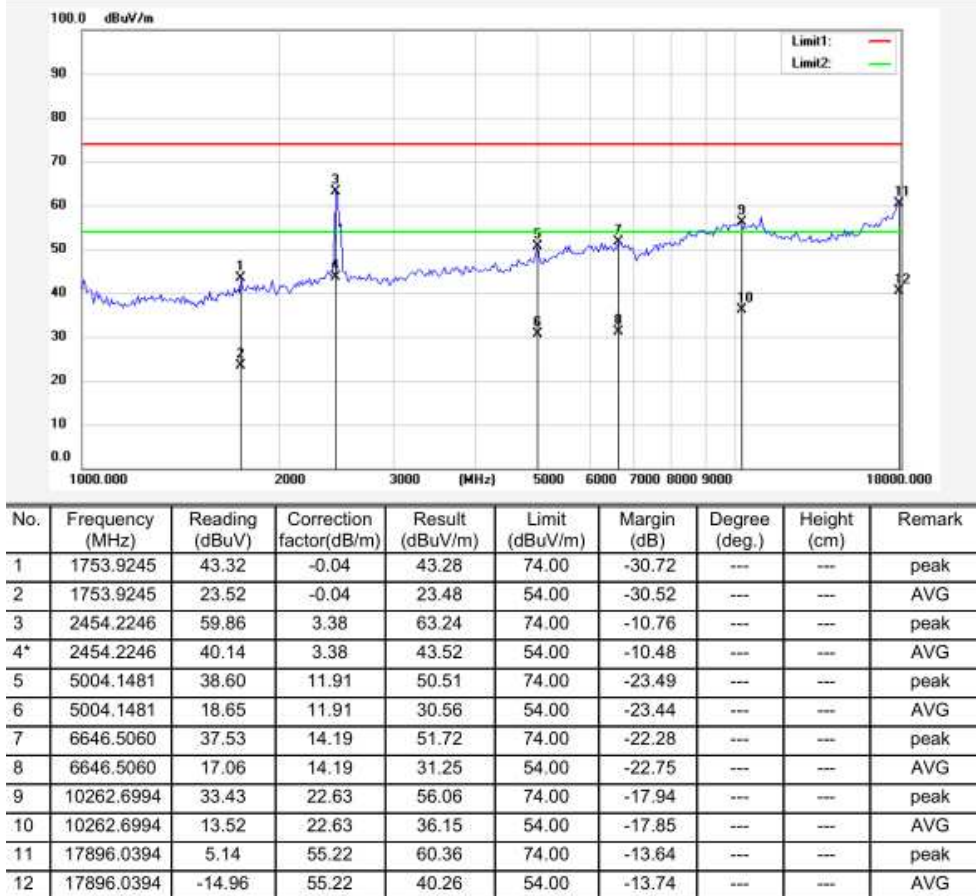
Wi-Fi 5G 11a_5240MHz Vertical



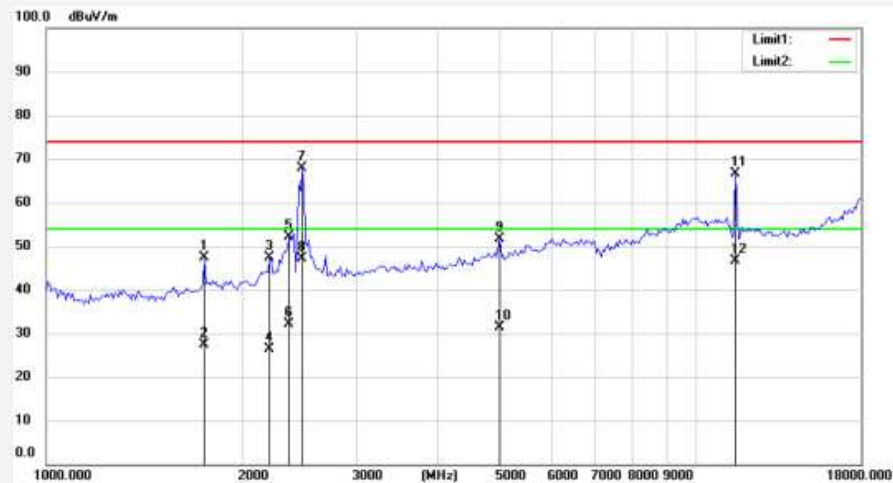
Wi-Fi 5G 11a_5260MHz Horizontal



Wi-Fi 5G 11a_5260MHz Vertical

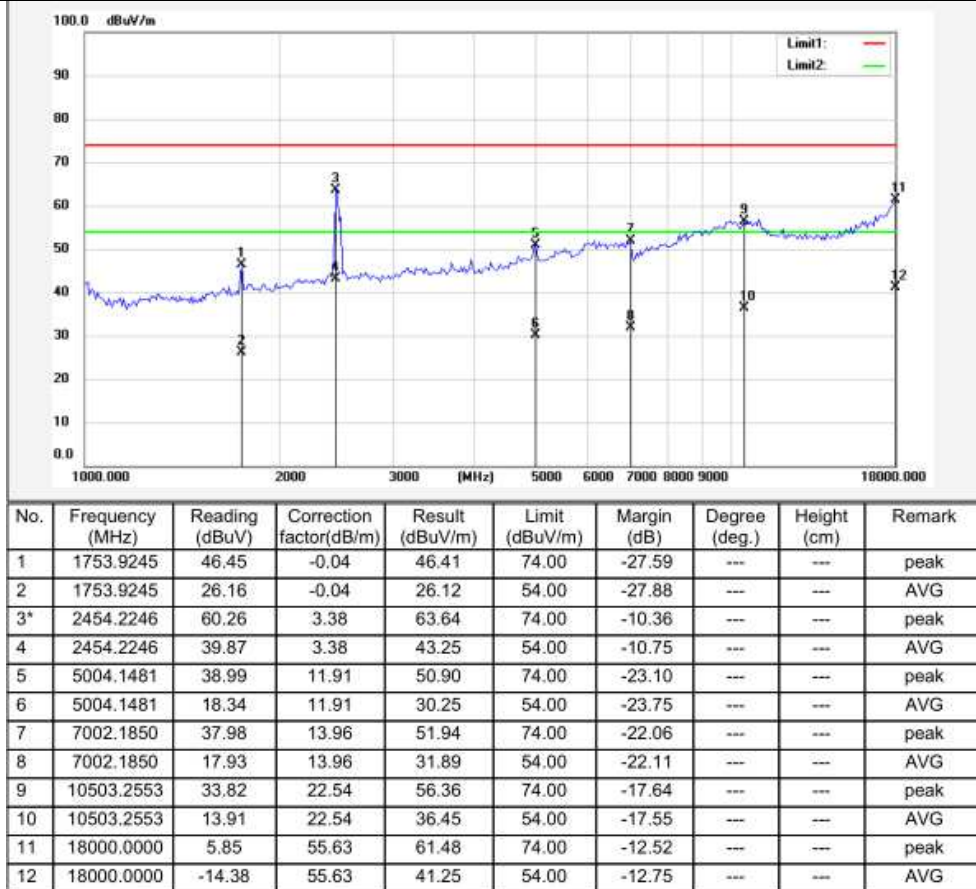


Wi-Fi 5G 11a_5300MHz Horizontal

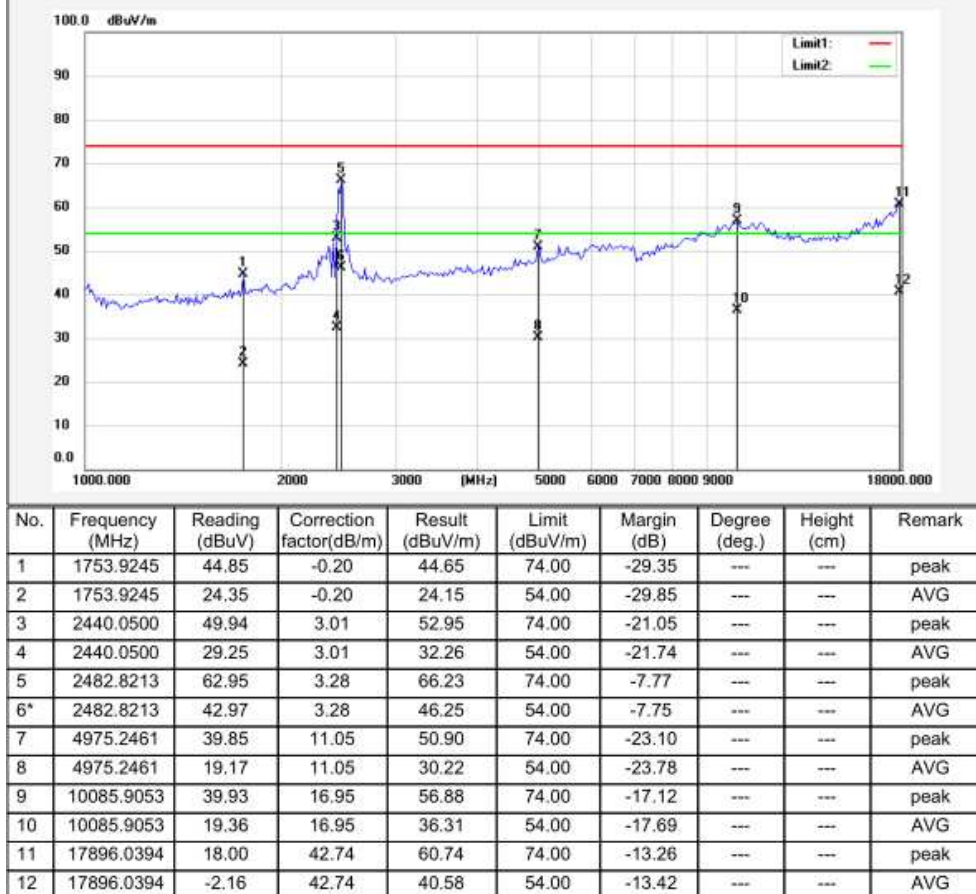


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1753.9245	47.50	-0.20	47.30	74.00	-26.70	---	---	peak
2	1753.9245	27.46	-0.20	27.26	54.00	-26.74	---	---	AVG
3	2211.2301	44.93	2.42	47.35	74.00	-26.65	---	---	peak
4	2211.2301	23.84	2.42	26.26	54.00	-27.74	---	---	AVG
5	2370.3957	49.28	2.73	52.01	74.00	-21.99	---	---	peak
6	2370.3957	29.48	2.73	32.21	54.00	-21.79	---	---	AVG
7*	2482.8213	64.53	3.28	67.81	74.00	-6.19	---	---	peak
8	2482.8213	43.97	3.28	47.25	54.00	-6.75	---	---	AVG
9	5004.1481	40.62	11.08	51.70	74.00	-22.30	---	---	peak
10	5004.1481	20.18	11.08	31.26	54.00	-22.74	---	---	AVG
11	11523.2011	18.81	47.75	66.56	74.00	-7.44	---	---	peak
12	11523.2011	-1.21	47.75	46.54	54.00	-7.46	---	---	AVG

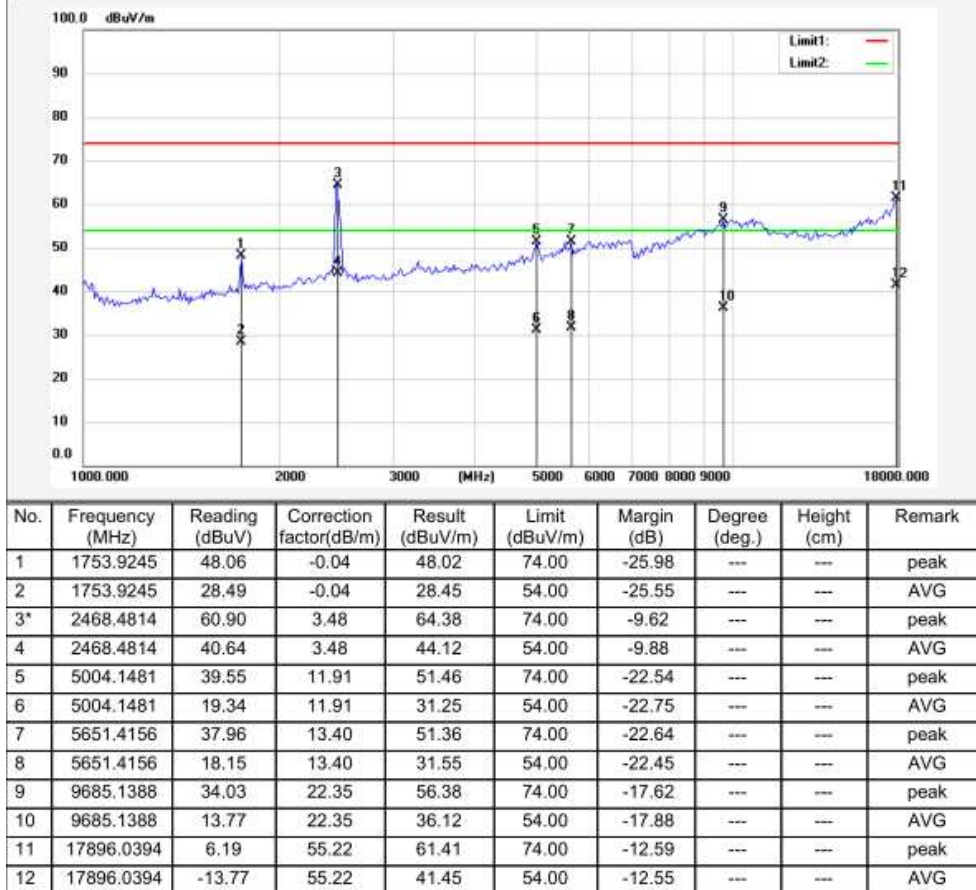
Wi-Fi 5G 11a_5300MHz Vertical



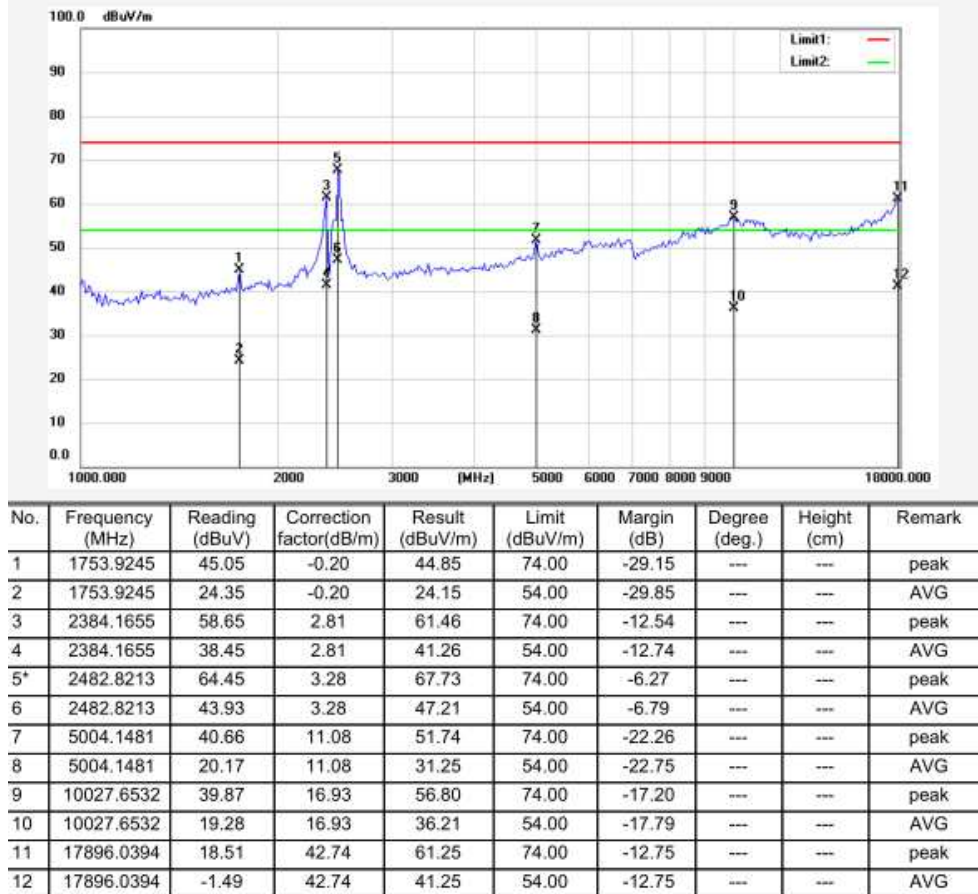
Wi-Fi 5G 11a_5320MHz Horizontal



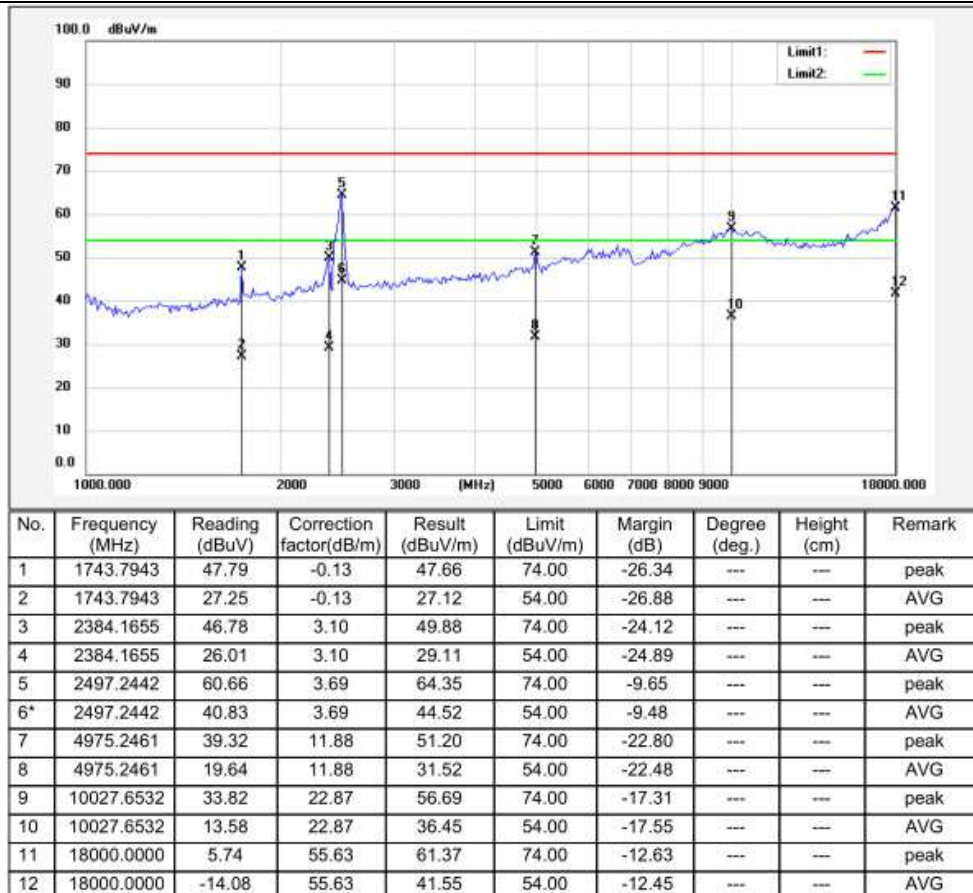
Wi-Fi 5G 11a_5320MHz Vertical



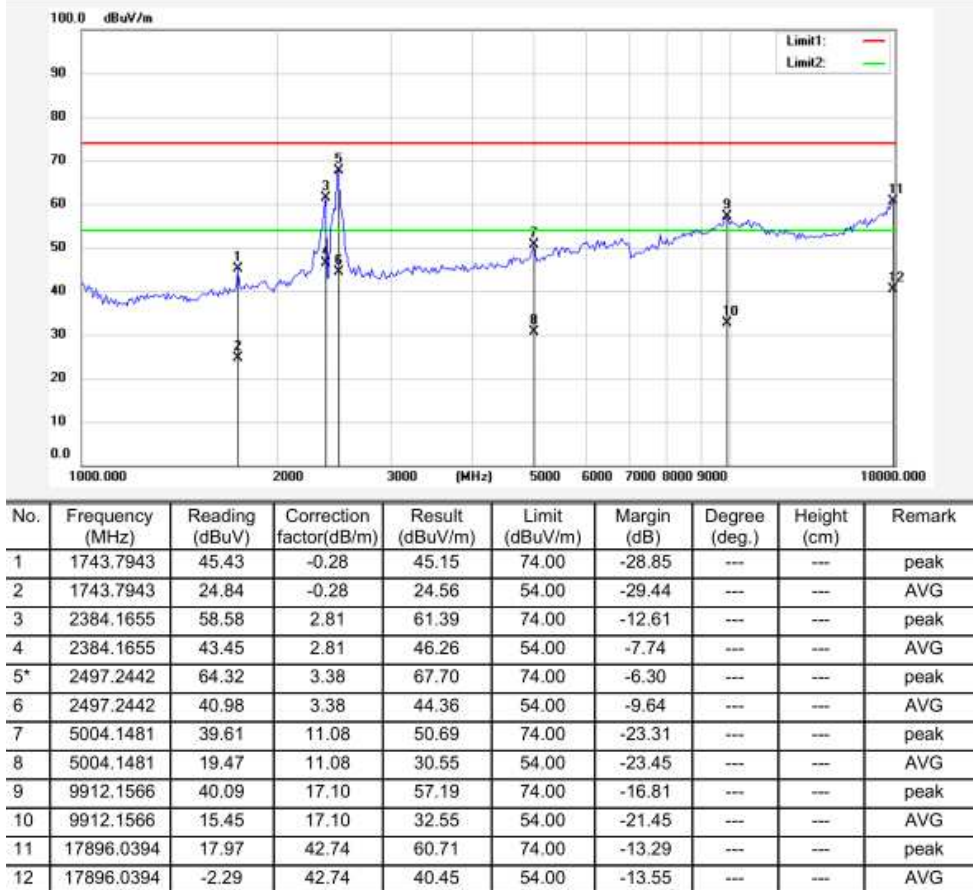
Wi-Fi 5G 11a_5500MHz Horizontal



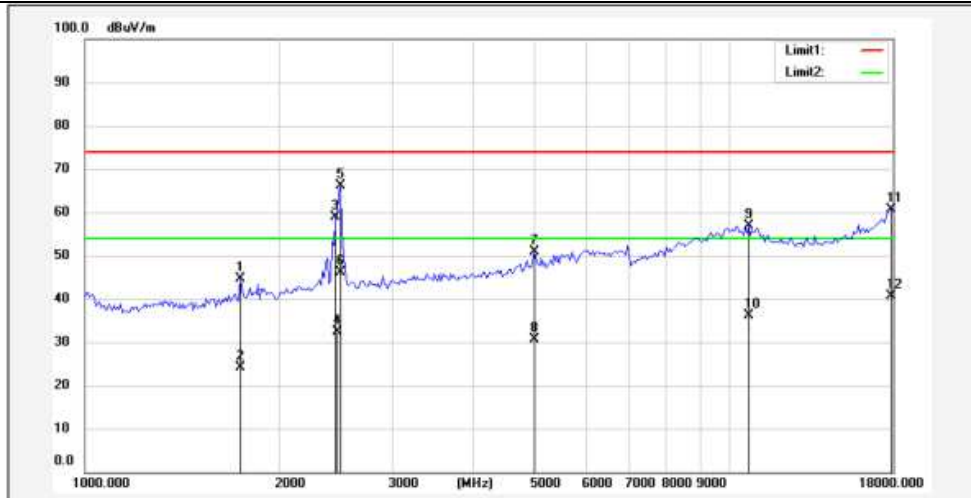
Wi-Fi 5G 11a_5500MHz Vertical



Wi-Fi 5G 11a_5580MHz Horizontal

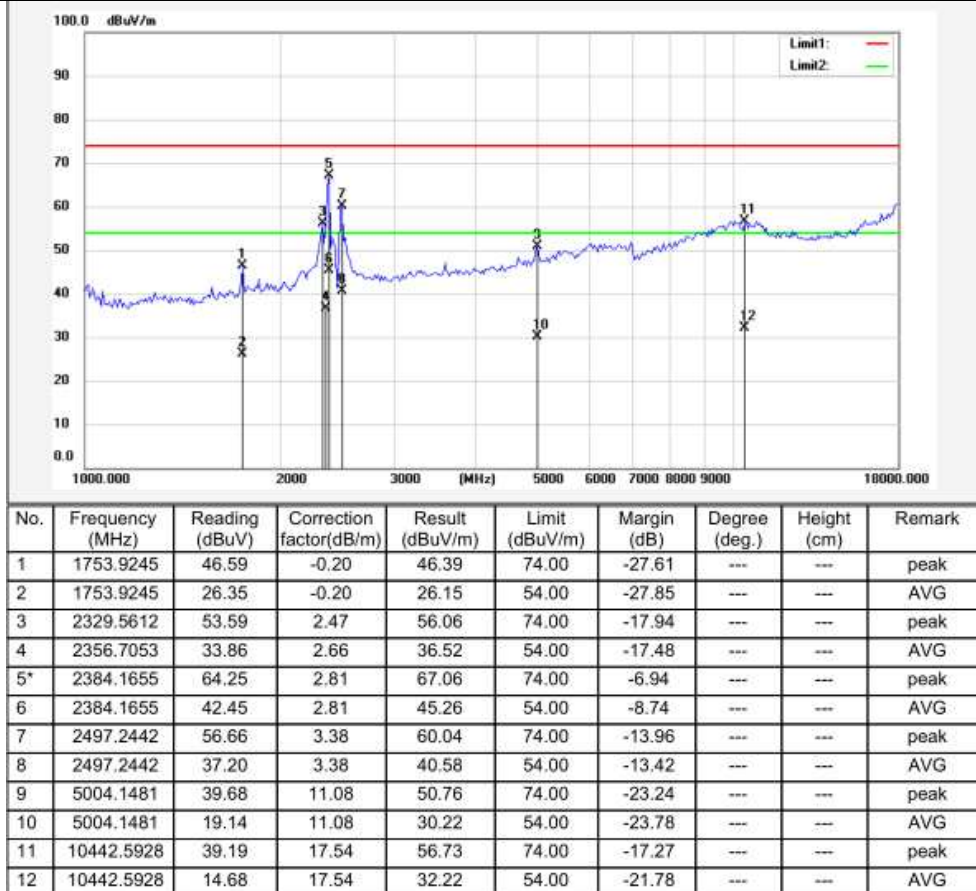


Wi-Fi 5G 11a_5580MHz Vertical

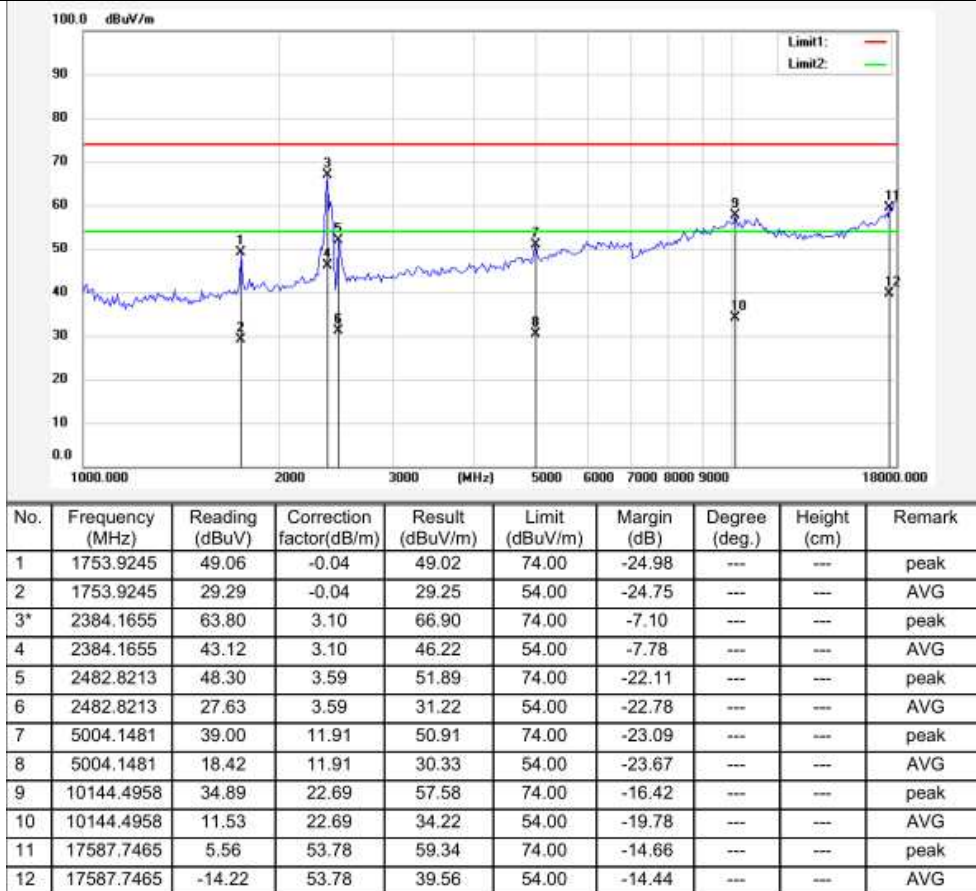


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1743.7943	44.80	-0.13	44.67	74.00	-29.33	---	---	peak
2	1743.7943	24.28	-0.13	24.15	54.00	-29.85	---	---	AVG
3	2454.2246	55.50	3.38	58.88	74.00	-15.12	---	---	peak
4	2468.4814	28.78	3.48	32.26	54.00	-21.74	---	---	AVG
5	2497.2442	62.54	3.69	66.23	74.00	-7.77	---	---	peak
6*	2497.2442	42.56	3.69	46.25	54.00	-7.75	---	---	AVG
7	5004.1481	38.98	11.91	50.89	74.00	-23.11	---	---	peak
8	5004.1481	18.75	11.91	30.66	54.00	-23.34	---	---	AVG
9	10749.4494	34.33	22.59	56.92	74.00	-17.08	---	---	peak
10	10749.4494	13.56	22.59	36.15	54.00	-17.85	---	---	AVG
11	17896.0394	5.44	55.22	60.66	74.00	-13.34	---	---	peak
12	17896.0394	-14.67	55.22	40.55	54.00	-13.45	---	---	AVG

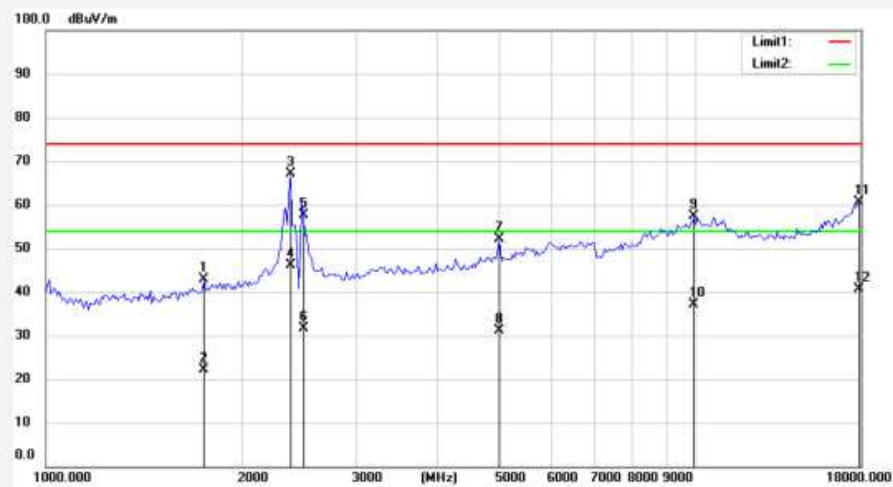
Wi-Fi 5G 11a_5700MHz Horizontal



Wi-Fi 5G 11a_5700MHz Vertical

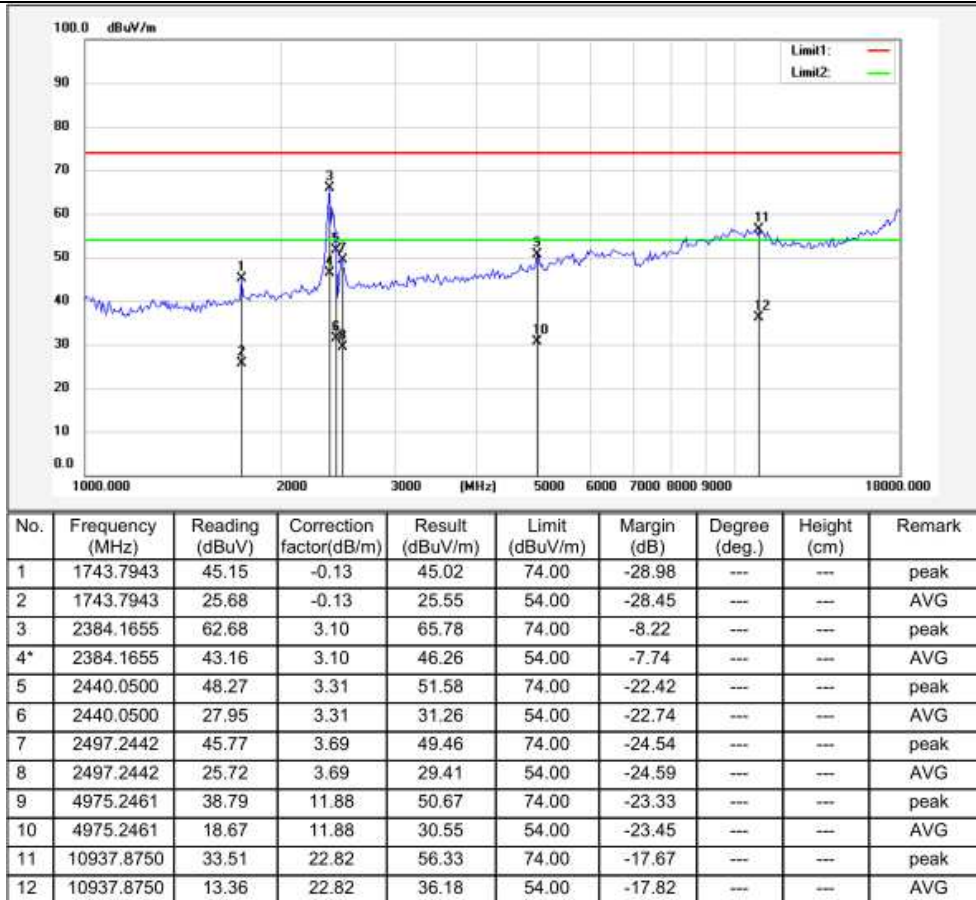


Wi-Fi 5G 11a_5745MHz Horizontal

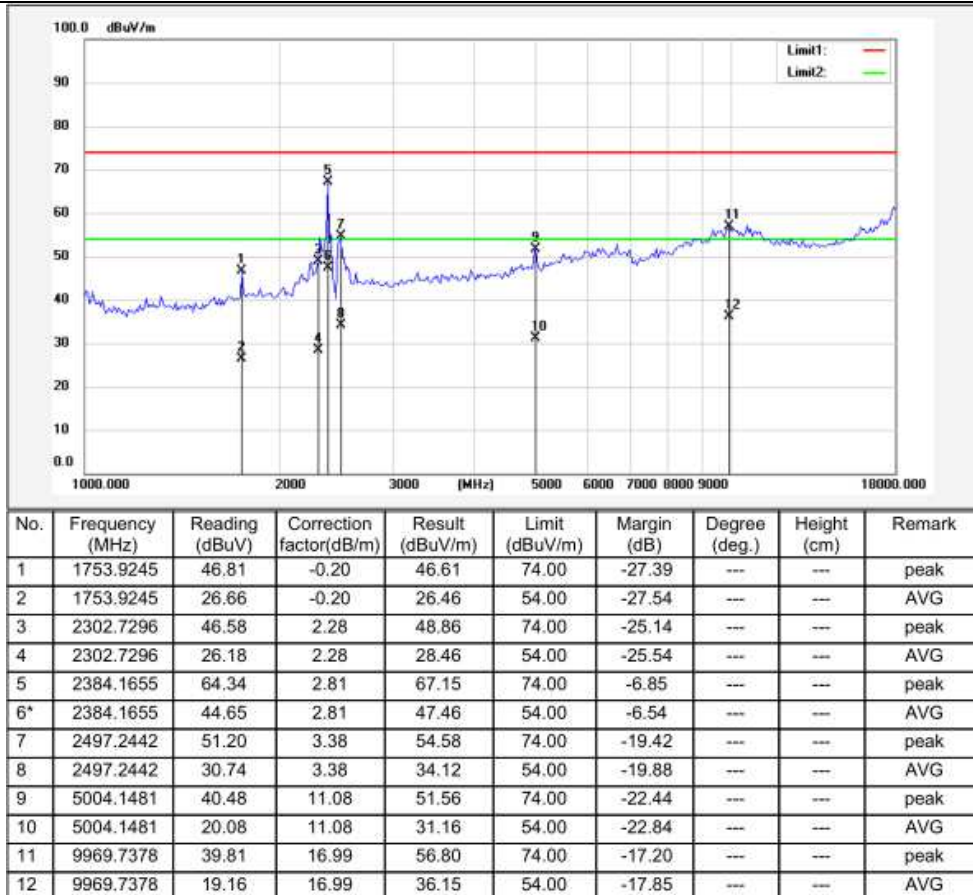


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1753.9245	43.14	-0.20	42.94	74.00	-31.06	---	---	peak
2	1753.9245	22.36	-0.20	22.16	54.00	-31.84	---	---	AVG
3*	2384.1655	64.28	2.81	67.09	74.00	-6.91	---	---	peak
4	2384.1655	43.33	2.81	46.14	54.00	-7.86	---	---	AVG
5	2497.2442	54.20	3.38	57.58	74.00	-16.42	---	---	peak
6	2497.2442	28.18	3.38	31.56	54.00	-22.44	---	---	AVG
7	5004.1481	41.16	11.08	52.24	74.00	-21.76	---	---	peak
8	5004.1481	20.14	11.08	31.22	54.00	-22.78	---	---	AVG
9	9969.7378	40.34	16.99	57.33	74.00	-16.67	---	---	peak
10	9969.7378	20.23	16.99	37.22	54.00	-16.78	---	---	AVG
11	17896.0394	17.85	42.74	60.59	74.00	-13.41	---	---	peak
12	17896.0394	-2.15	42.74	40.59	54.00	-13.41	---	---	AVG

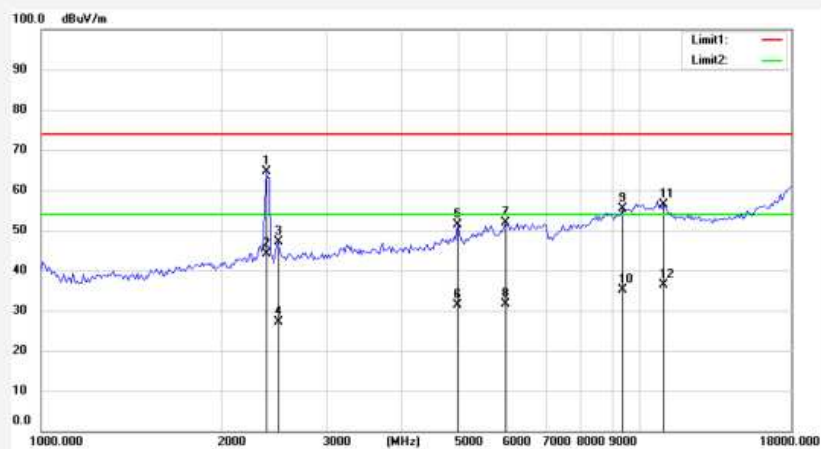
Wi-Fi 5G 11a_5745MHz Vertical



Wi-Fi 5G 11a_5785MHz Horizontal

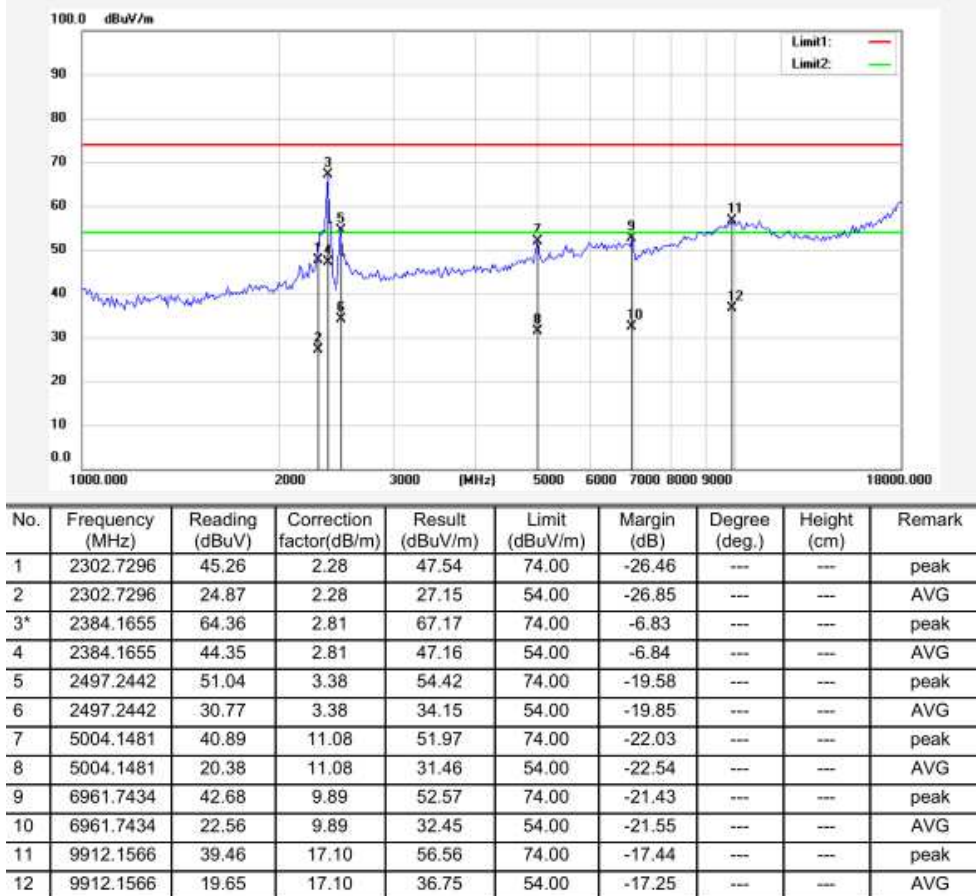


Wi-Fi 5G 11a_5785MHz Vertical

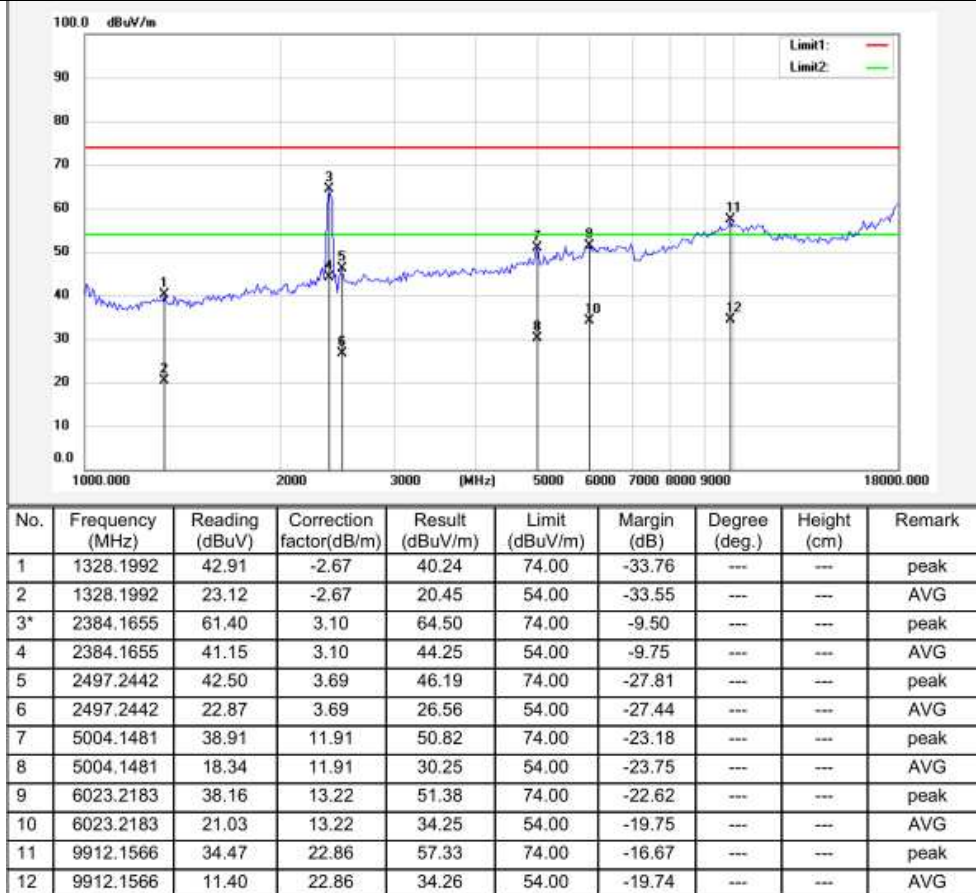


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	2384.1655	61.59	3.10	64.69	74.00	-9.31	---	---	peak
2	2384.1655	41.05	3.10	44.15	54.00	-9.85	---	---	AVG
3	2497.2442	43.53	3.69	47.22	74.00	-26.78	---	---	peak
4	2497.2442	23.46	3.69	27.15	54.00	-26.85	---	---	AVG
5	4975.2461	39.61	11.88	51.49	74.00	-22.51	---	---	peak
6	4975.2461	19.57	11.88	31.45	54.00	-22.55	---	---	AVG
7	5988.4308	37.90	14.05	51.95	74.00	-22.05	---	---	peak
8	5988.4308	17.60	14.05	31.65	54.00	-22.35	---	---	AVG
9	9408.6643	33.89	21.54	55.43	74.00	-18.57	---	---	peak
10	9408.6643	13.61	21.54	35.15	54.00	-18.85	---	---	AVG
11	11001.4146	33.49	22.83	56.32	74.00	-17.68	---	---	peak
12	11001.4146	13.62	22.83	36.45	54.00	-17.55	---	---	AVG

Wi-Fi 5G 11a_5825MHz Horizontal

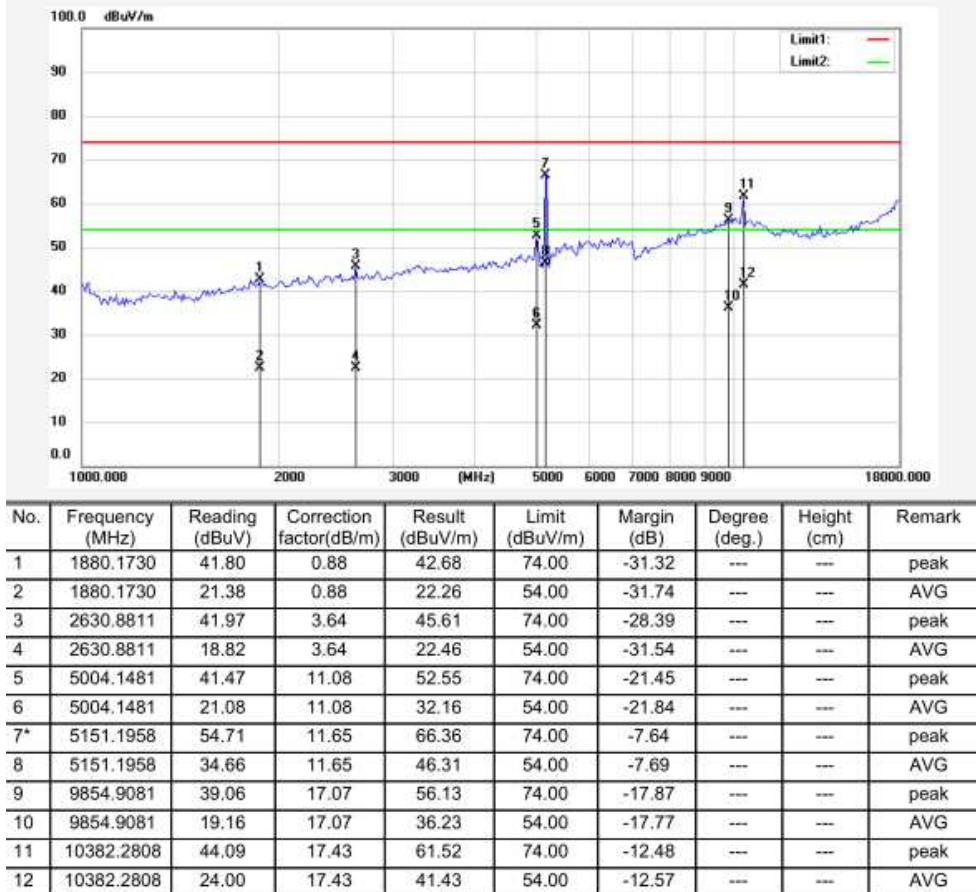


Wi-Fi 5G 11a_5825MHz Vertical

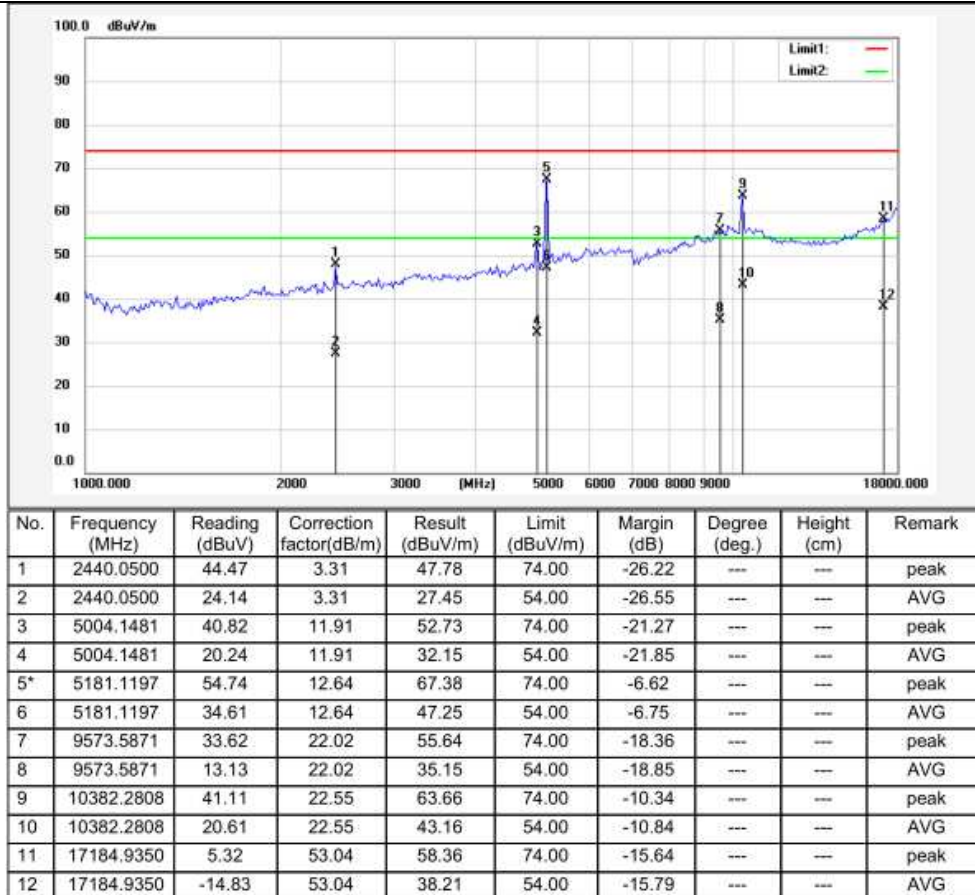


Wi-Fi 5G 802.11n20:

Wi-Fi 5G 11n20_5180MHz Horizontal



Wi-Fi 5G 11n20_5180MHz Vertical



Wi-Fi 5G 11n20_5320MHz Horizontal

