

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	11.729	10.135	14.769	23.98	22.16	Pass
40	5200	11.587	10.625	14.627	23.98	22.15	Pass
48	5240	10.759	11.138	14.198	23.98	22.15	Pass
52	5260	10.979	10.565	14.019	23.98	30	Pass
60	5300	11.638	11.923	14.983	23.98	30	Pass
64	5320	12.124	12.956	16.016	23.98	30	Pass
100	5500	13.631	14.768	17.828	23.98	30	Pass
116	5580	13.927	15.099	18.159	23.98	30	Pass
140	5700	14.570	13.573	17.610	23.98	30	Pass
149	5745	14.069	11.163	17.169	30	36	Pass
157	5785	13.673	11.134	16.773	30	36	Pass
165	5825	13.643	9.867	16.743	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: ANT1: 3.10 dBi, ANT2: 3.08 dBi, 3.10dBi(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	11.084	9.662	13.441	16.501	23.98	22.45	Pass
40	5200	11.307	10.087	13.750	16.810	23.98	22.45	Pass
48	5240	10.867	11.060	13.975	17.035	23.98	22.46	Pass
52	5260	11.382	10.749	14.087	17.147	23.98	30	Pass
60	5300	11.643	11.712	14.688	17.748	23.98	30	Pass
64	5320	11.804	12.361	15.102	18.162	23.98	30	Pass
100	5500	13.346	13.521	16.445	19.505	23.98	30	Pass
116	5580	13.422	13.695	16.571	19.631	23.98	30	Pass
140	5700	14.093	12.953	16.571	19.631	23.98	30	Pass
149	5745	14.465	11.278	16.168	19.268	30	36	Pass
157	5785	13.907	11.156	15.756	18.856	30	36	Pass
165	5825	14.030	10.019	15.482	18.582	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: ANT1: 3.10 dBi, ANT2: 3.08 dBi, 3.10dBi(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	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	10.742	9.310	13.095	16.155	23.98	22.46	Pass
40	5200	10.902	9.785	13.390	16.450	23.98	22.46	Pass
48	5240	10.783	10.838	13.821	16.881	23.98	22.46	Pass
52	5260	11.058	10.368	13.737	16.797	23.98	30	Pass
60	5300	11.752	11.751	14.762	17.822	23.98	30	Pass
64	5320	11.952	12.445	15.216	18.276	23.98	30	Pass
100	5500	13.569	14.361	16.993	20.053	23.98	30	Pass
116	5580	13.820	13.927	16.884	19.944	23.98	30	Pass
140	5700	14.253	12.897	16.638	19.698	23.98	30	Pass
149	5745	14.249	11.128	15.973	19.073	30	36	Pass
157	5785	13.838	11.097	15.691	18.791	30	36	Pass
165	5825	13.878	9.905	15.341	18.441	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: ANT1: 3.10 dBi, ANT2: 3.08 dBi, 3.10dBi(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	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	10.592	9.147	12.940	16.000	23.98	25.56	Pass
46	5230	10.471	10.457	13.474	16.534	23.98	25.57	Pass
54	5270	10.702	10.250	13.492	16.552	23.98	30	Pass
62	5310	12.757	13.150	15.968	19.028	23.98	30	Pass
102	5510	13.238	14.047	16.672	19.732	23.98	30	Pass
110	5550	13.206	14.119	16.697	19.757	23.98	30	Pass
134	5670	13.628	13.223	16.441	19.501	23.98	30	Pass
151	5755	14.537	11.458	16.275	19.375	30	36	Pass
159	5795	13.425	10.240	15.128	18.228	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: ANT1: 3.10 dBi, ANT2: 3.08 dBi, 3.10dBi(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	11.213	10.286	13.784	16.844	23.98	25.57	Pass
46	5230	10.547	10.937	13.757	16.817	23.98	25.56	Pass
54	5270	11.208	11.051	14.141	17.201	23.98	30	Pass
62	5310	11.952	12.431	15.208	18.268	23.98	30	Pass
102	5510	13.741	14.144	16.957	20.017	23.98	30	Pass
110	5550	13.535	14.181	16.880	19.940	23.98	30	Pass
134	5670	13.047	14.099	16.615	19.675	23.98	30	Pass
151	5755	13.737	10.875	15.548	18.648	30	36	Pass
159	5795	13.390	10.206	15.094	18.194	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: ANT1: 3.10 dBi, ANT2: 3.08 dBi, 3.10dBi(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:

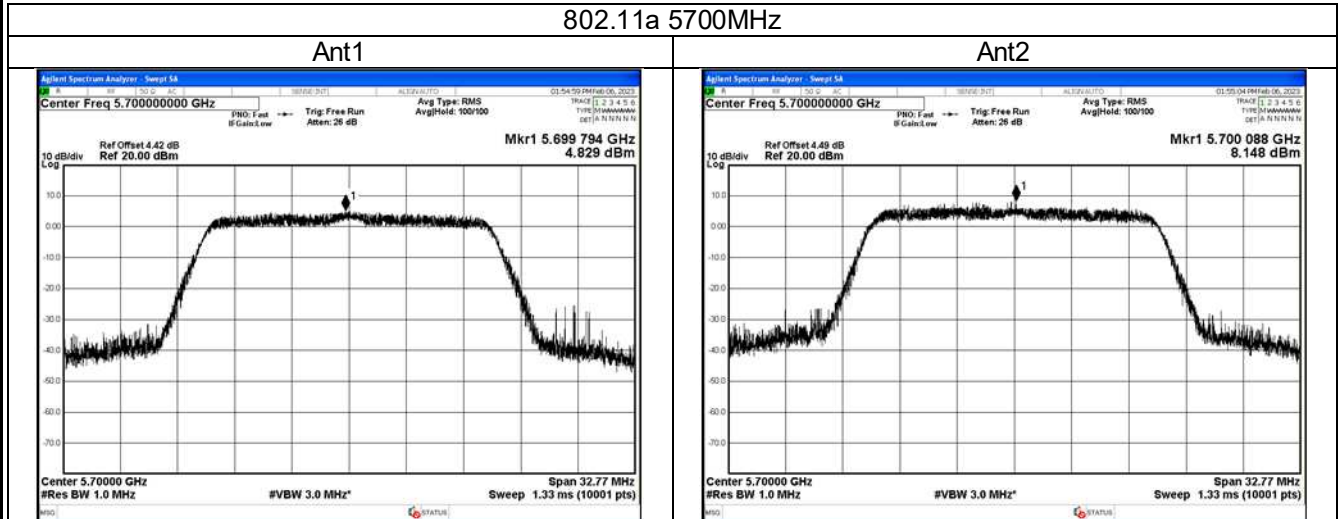
Channel	Frequency (MHz)	ANT1_Conducted Power (dBm)	ANT2_Conducted Power (dBm)	Total (dBm)		FCC Limit (dBm)	IC E.I.R.P. Limit (dBm)	Result
				Conducted	EIRP ³			
42	5210	8.609	8.503	11.567	14.627	23.98	23	Pass
58	5290	9.766	9.374	12.585	15.645	23.98	30	Pass
106	5530	11.733	13.101	15.481	18.541	23.98	30	Pass
122	5610	11.833	12.790	15.348	18.408	23.98	30	Pass
155	5775	12.747	9.802	14.530	17.630	30	36	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of 802.11 a/n/ac: ANT1: 3.10 dBi, ANT2: 3.08 dBi, 3.10dBi(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 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	4.593	7.693	3.315	6.395	--	--	11	10	Pass
44	5200	3.333	6.433	2.197	5.277	--	--	11	10	Pass
48	5240	3.721	6.821	2.637	5.717	--	--	11	10	Pass
52	5260	3.924	3.924	2.081	2.081	--	--	11	11	Pass
56	5300	4.387	4.387	3.219	3.219	--	--	11	11	Pass
64	5320	4.688	4.688	4.293	4.293	--	--	11	11	Pass
100	5500	4.121	4.121	5.940	5.940	--	--	11	11	Pass
116	5580	3.767	3.767	7.298	7.298	--	--	11	11	Pass
140	5700	4.829	4.829	8.148	8.148	--	--	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	-0.762	-1.489	1.900	30	Pass
157	5785	-2.019	-2.068	0.967	30	Pass
165	5825	-1.714	-3.078	0.668	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	3.046	6.146	0.187	3.267	4.858	7.958	11	10	Pass
44	5200	3.085	6.185	0.486	3.566	4.987	8.087	11	10	Pass
48	5240	3.230	6.33	0.907	3.987	5.232	8.332	11	10	Pass
52	5260	3.918	3.918	1.101	1.101	5.744	5.744	11	11	Pass
56	5300	4.256	4.256	2.057	2.057	6.305	6.305	11	11	Pass
64	5320	4.391	4.391	2.958	2.958	6.744	6.744	11	11	Pass
100	5500	4.612	4.612	5.110	5.110	7.878	7.878	11	11	Pass
116	5580	3.397	3.397	5.568	5.568	7.627	7.627	11	11	Pass
140	5700	3.361	3.361	4.112	4.112	6.763	6.763	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	-0.222	-0.221	2.789	30	Pass
157	5785	-2.459	-0.917	1.390	30	Pass
165	5825	-1.616	-2.732	0.872	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	2.631	5.731	-0.363	2.717	4.397	7.497	11	10	Pass
44	5200	2.929	6.029	0.313	3.393	4.825	7.925	11	10	Pass
48	5240	3.381	6.481	1.080	4.160	5.391	8.491	11	10	Pass
52	5260	3.815	3.815	1.156	1.156	5.696	5.696	11	11	Pass
56	5300	4.477	4.477	2.331	2.331	6.546	6.546	11	11	Pass
64	5320	4.345	4.345	2.711	2.711	6.615	6.615	11	11	Pass
100	5500	4.232	4.232	5.079	5.079	7.686	7.686	11	11	Pass
116	5580	3.390	3.390	5.462	5.462	7.559	7.559	11	11	Pass
140	5700	2.593	2.593	3.990	3.990	6.358	6.358	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	-1.534	-1.134	1.681	30	Pass
157	5785	-2.834	-1.644	0.812	30	Pass
165	5825	-2.275	-2.821	0.471	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	1.335	4.435	-1.221	1.859	3.253	6.353	11	10	Pass
46	5230	2.461	5.561	0.367	3.447	4.549	7.649	11	10	Pass
54	5270	2.477	2.477	0.817	0.817	4.736	4.736	11	10	Pass
62	5310	3.402	3.402	1.702	1.702	5.645	5.645	11	11	Pass
102	5510	3.139	3.139	4.063	4.063	6.636	6.636	11	11	Pass
110	5550	3.232	3.232	3.858	3.858	6.567	6.567	11	11	Pass
134	5670	0.977	0.977	4.013	4.013	5.765	5.765	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	-3.669	-3.280	-0.460	30	Pass
159	5795	-3.699	-3.661	-0.670	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	1.400	4.5	-1.499	1.581	3.198	6.298	11	10	Pass
46	5230	1.589	4.689	-1.077	2.003	3.468	6.568	11	10	Pass
54	5270	2.298	2.298	-0.348	-0.348	4.184	4.184	11	10	Pass
62	5310	2.560	2.560	0.866	0.866	4.805	4.805	11	11	Pass
102	5510	4.694	4.694	5.731	5.731	8.254	8.254	11	11	Pass
110	5550	2.834	2.834	4.280	4.280	6.627	6.627	11	11	Pass
134	5670	1.490	1.490	3.327	3.327	5.515	5.515	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	-3.093	-3.006	-0.039	30	Pass
159	5795	-3.687	-3.783	-0.724	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	-2.203	0.897	-5.501	-2.421	-0.536	2.564	11	10	Pass
58	5290	-0.582	-0.582	-3.450	-3.450	1.227	1.227	11	10	Pass
106	5530	-0.274	-0.274	1.080	1.080	3.466	3.466	11	10	Pass
122	5610	-1.352	-1.352	0.807	0.807	2.871	2.871	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	-6.385	-6.496	-3.430	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.

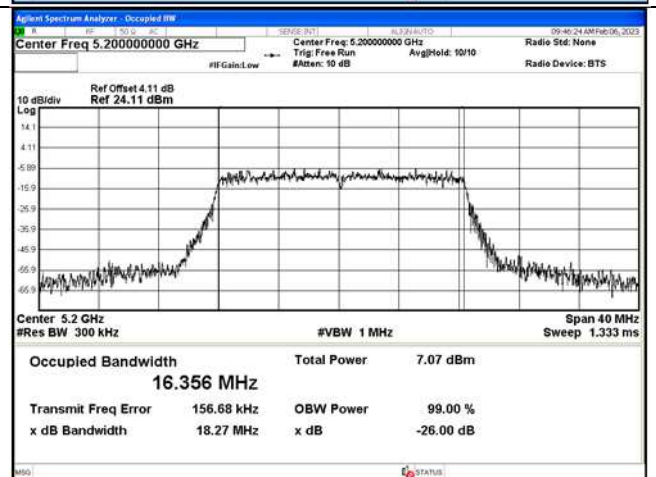
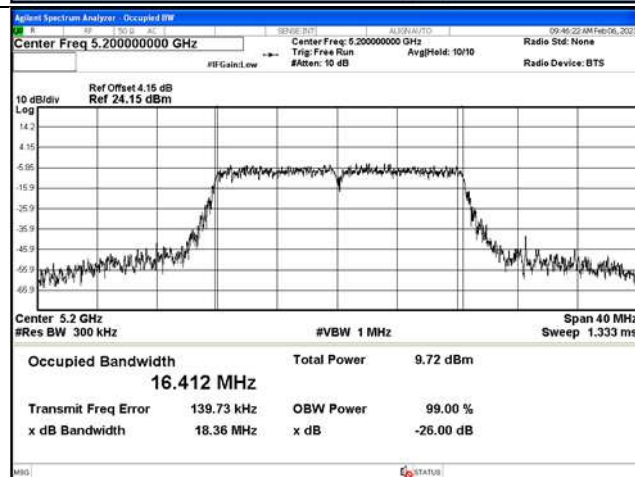
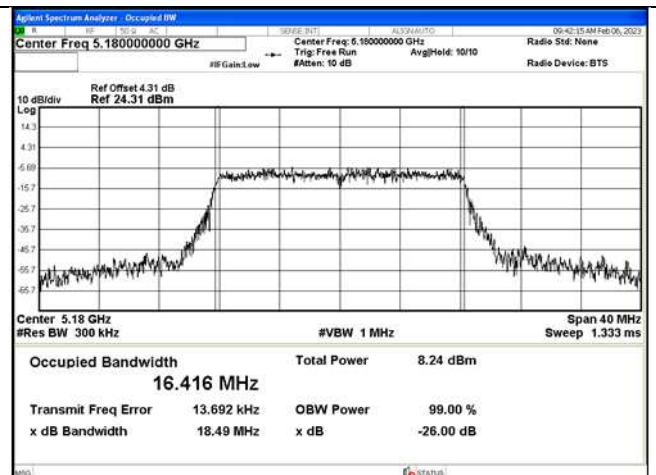
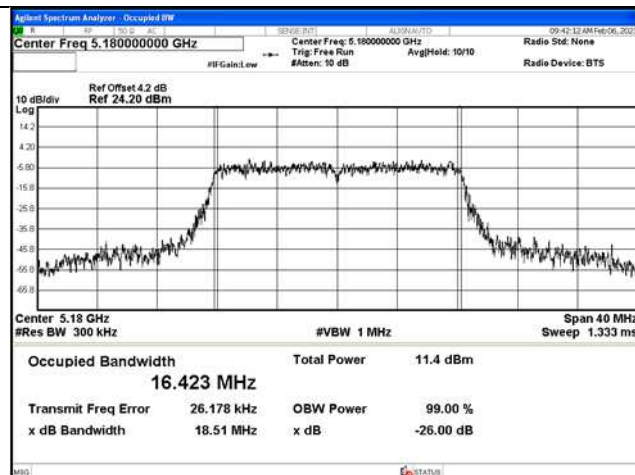
(2) For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

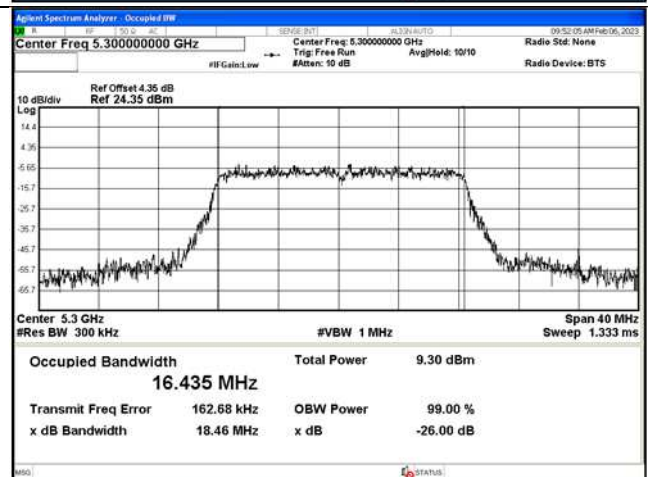
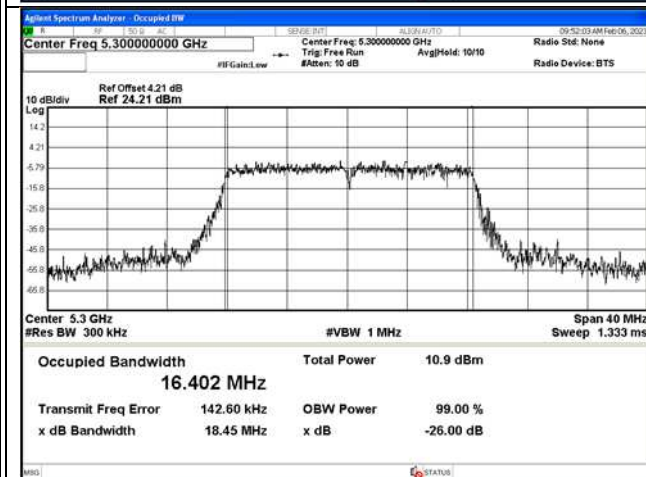
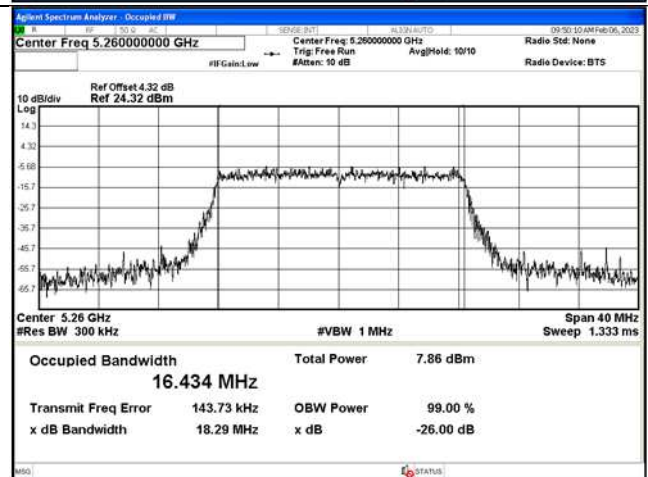
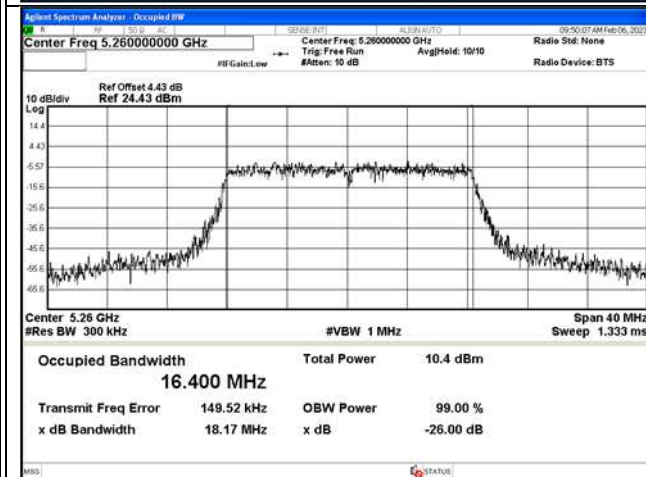
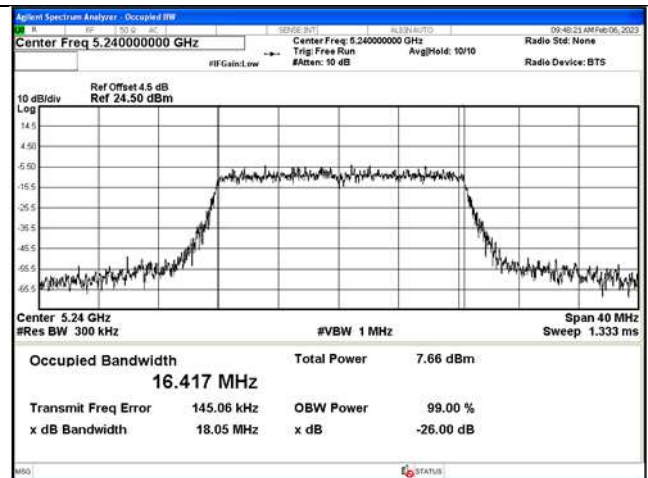
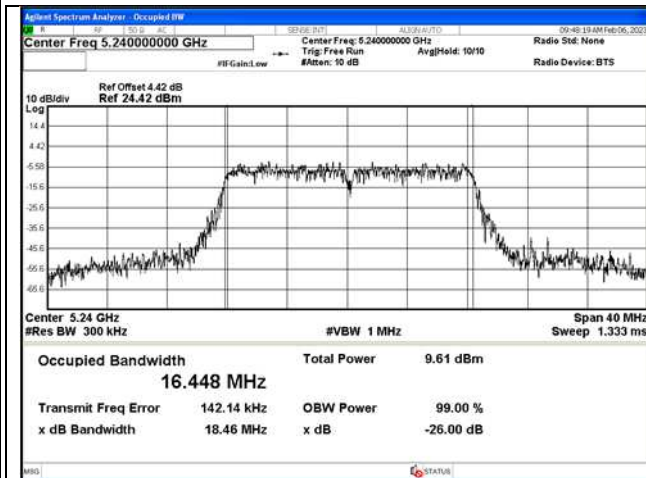
Appendix B.3: 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

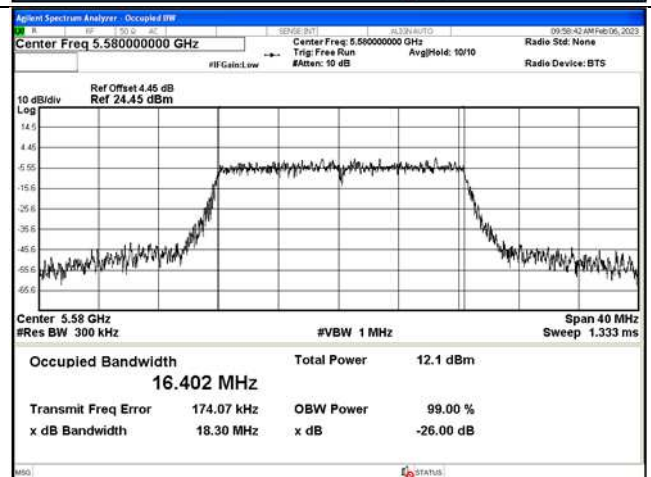
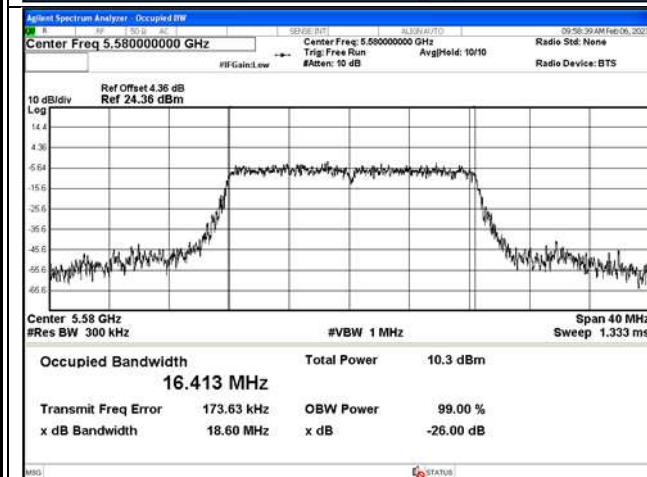
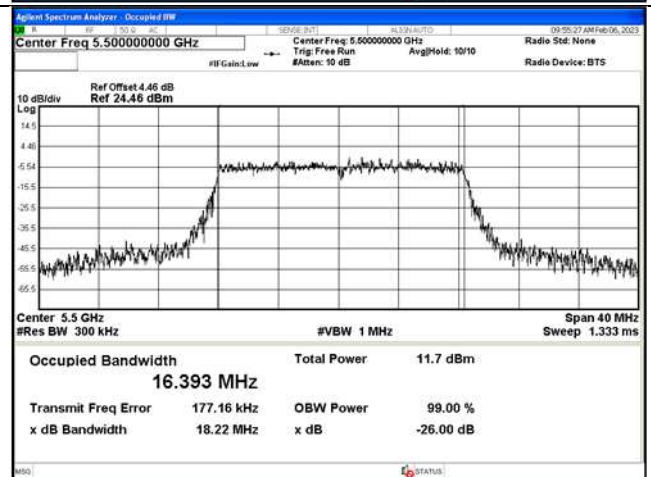
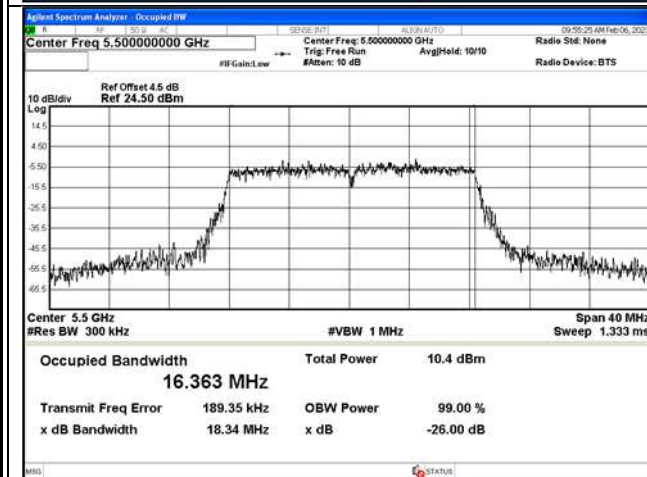
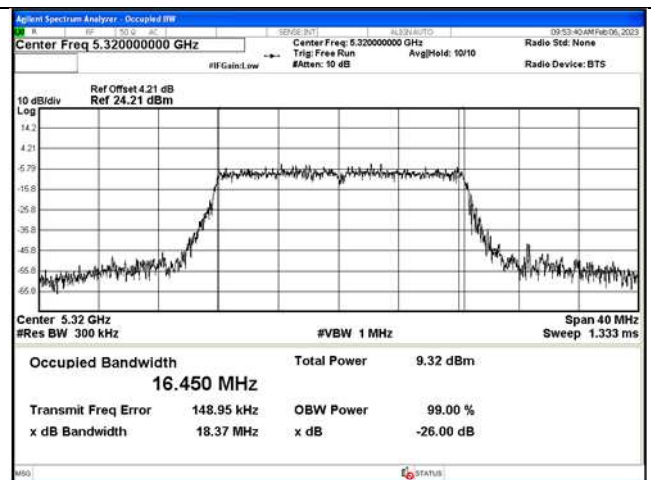
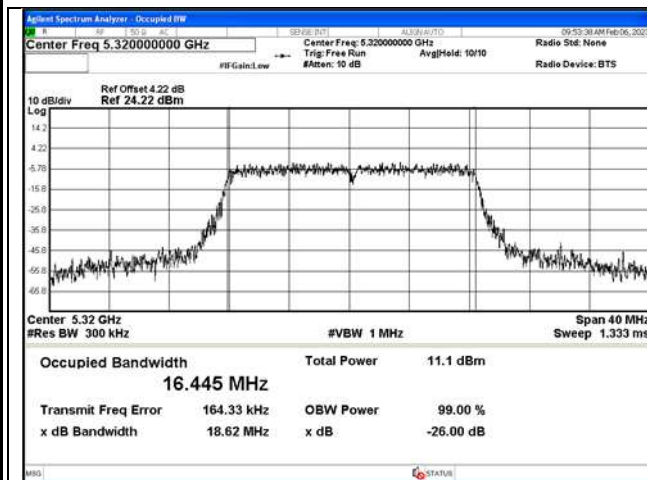
802.11a mode:

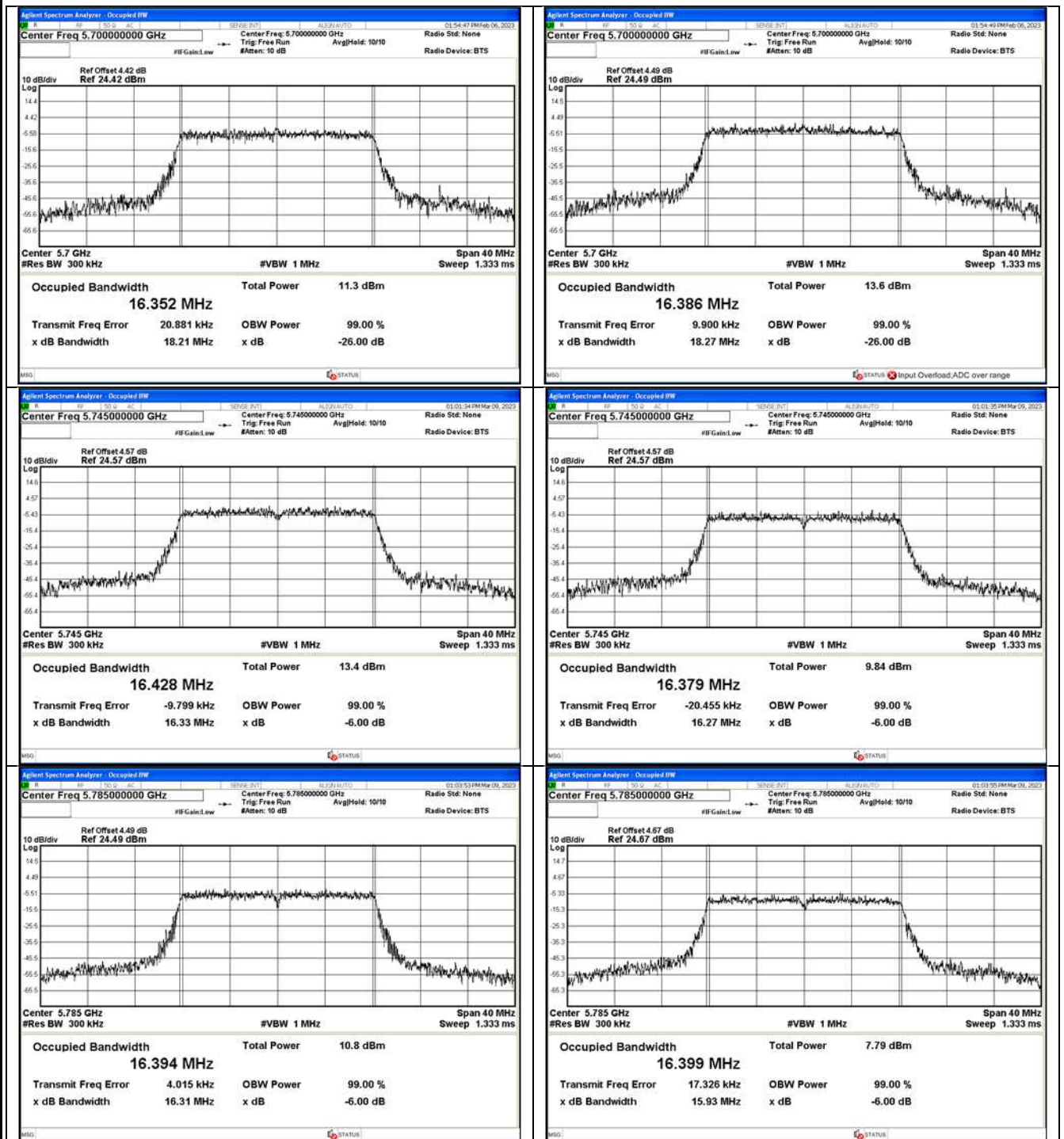
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	18.51	16.4228	18.49	16.4159
44	5200	18.36	16.4123	18.27	16.3564
48	5240	18.46	16.4484	18.05	16.4166
52	5260	18.17	16.3996	18.29	16.4338
56	5300	18.45	16.4024	18.46	16.4349
64	5320	18.62	16.4447	18.37	16.4498
100	5500	18.34	16.3634	18.22	16.3934
116	5580	18.60	16.4135	18.30	16.4022
140	5700	18.21	16.3516	18.27	16.3860

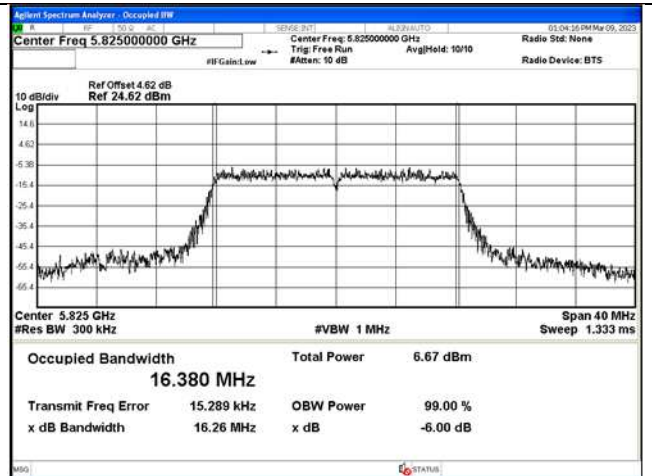
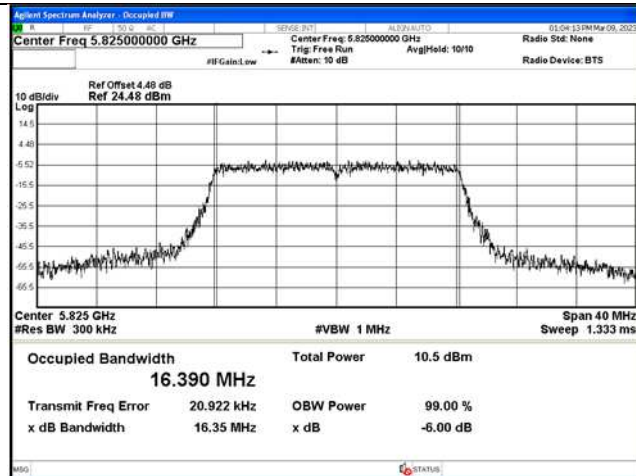
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	16.33	16.4283	16.27	16.3789
157	5785	16.31	16.3936	15.93	16.3993
165	5825	16.35	16.3903	16.26	16.3802







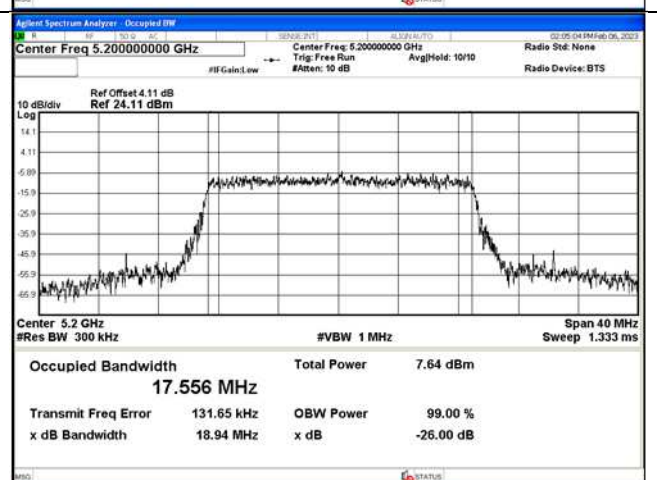
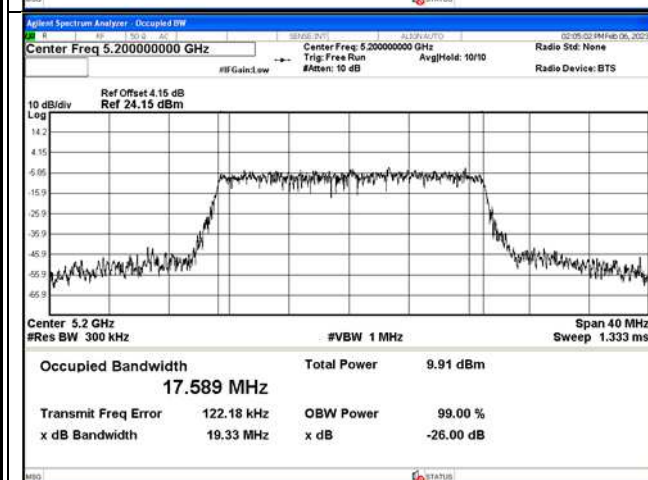
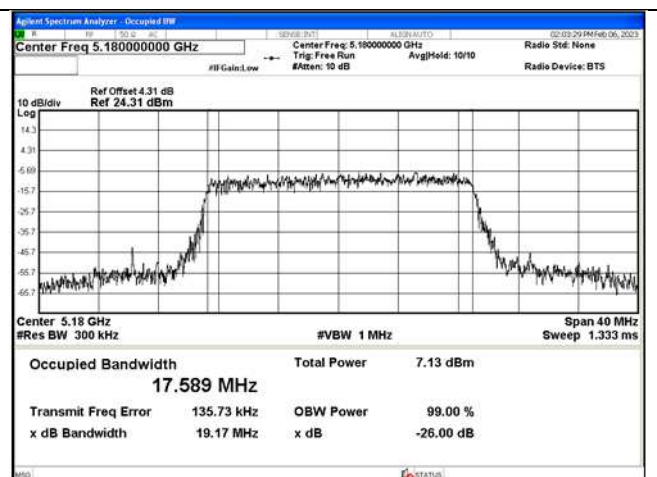
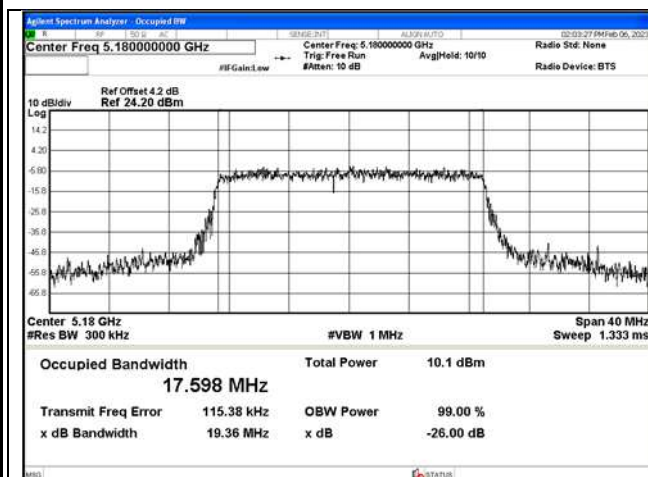


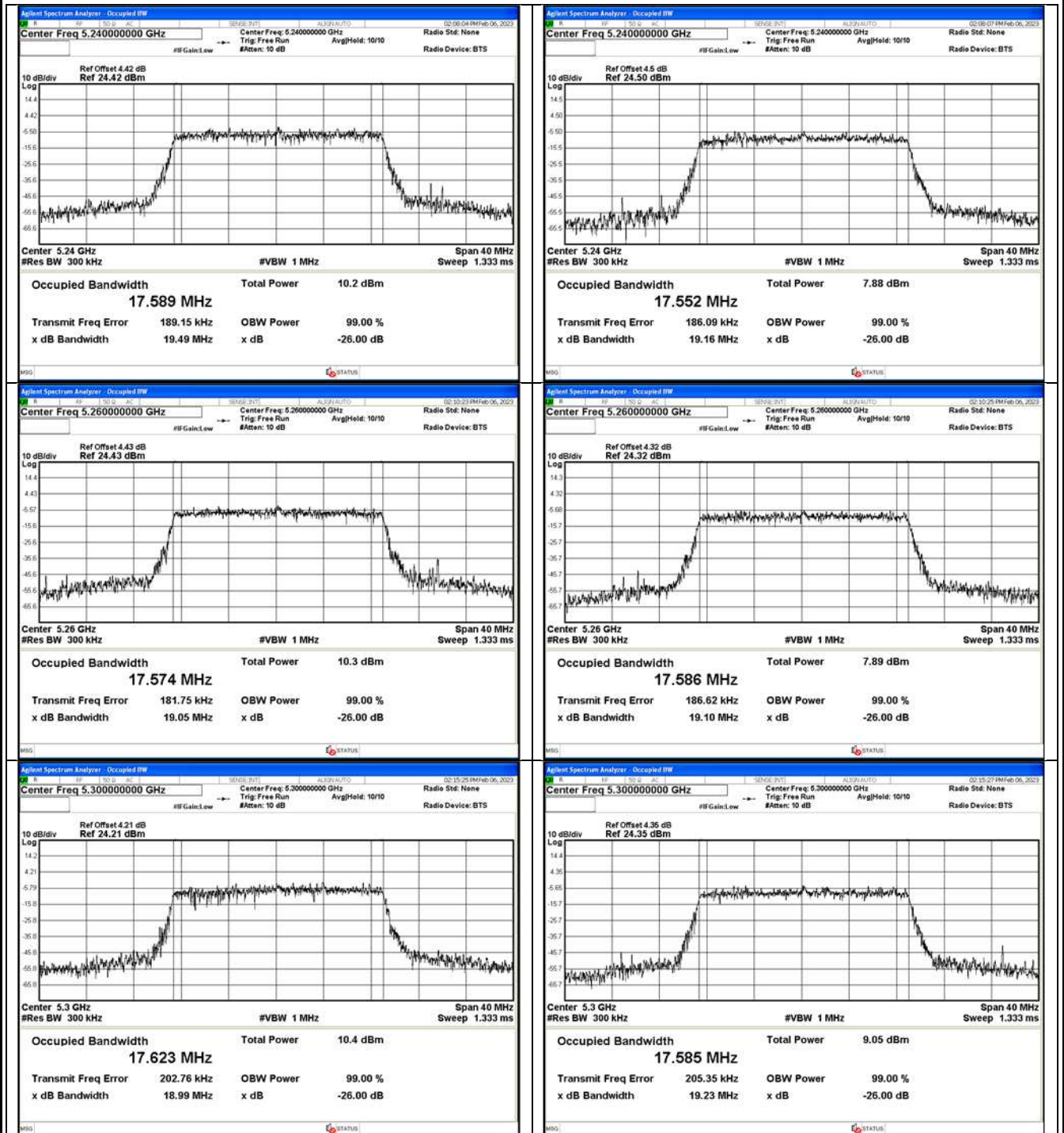


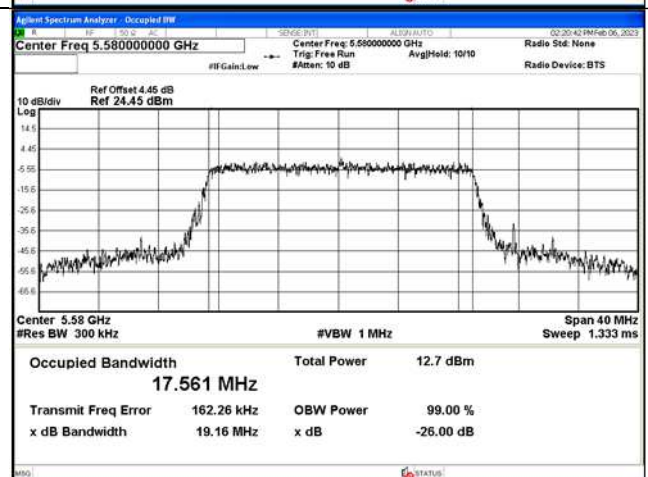
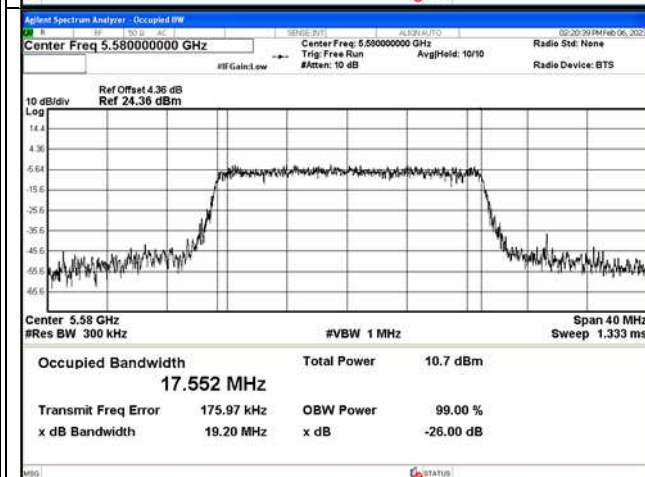
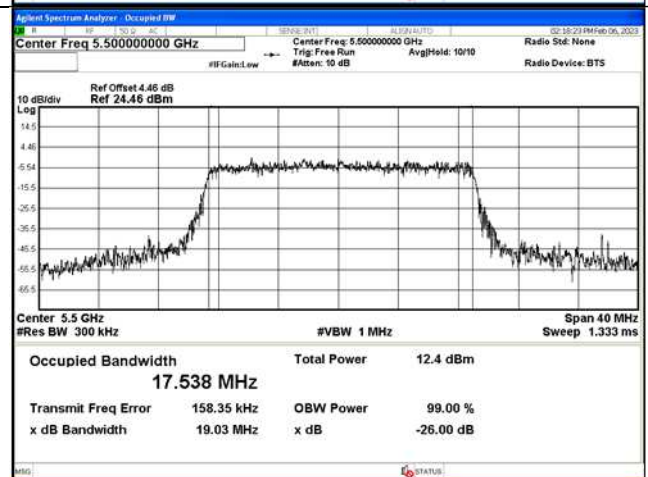
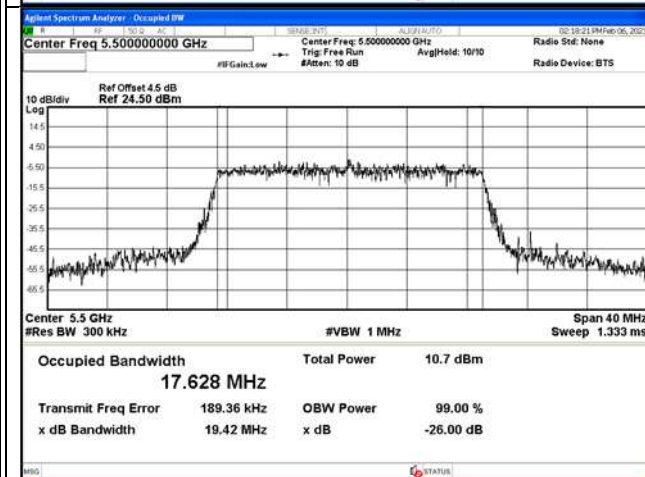
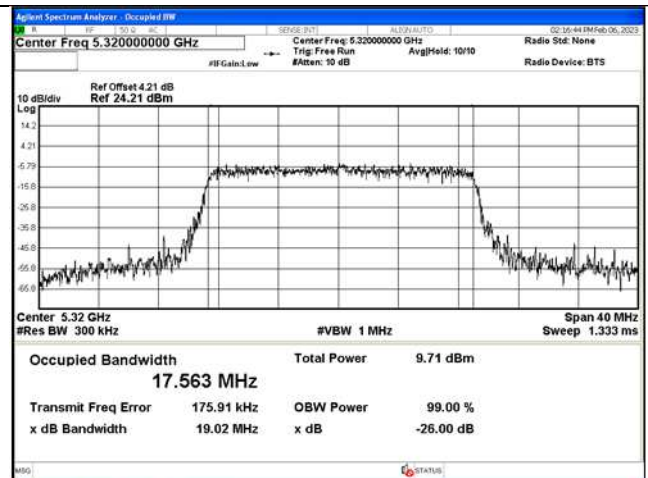
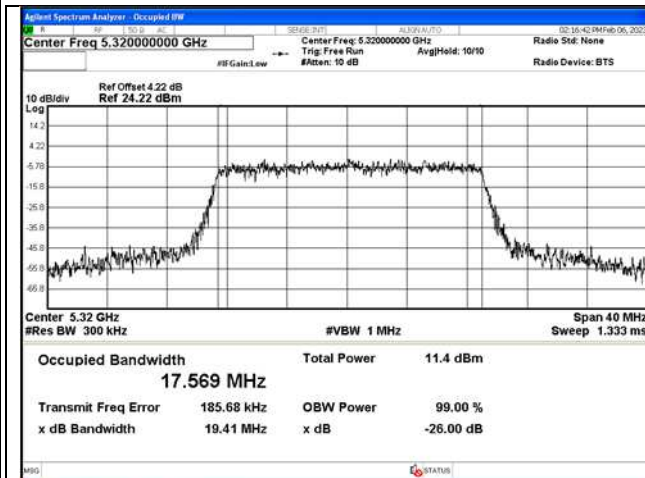
802.11n(HT20) mode:

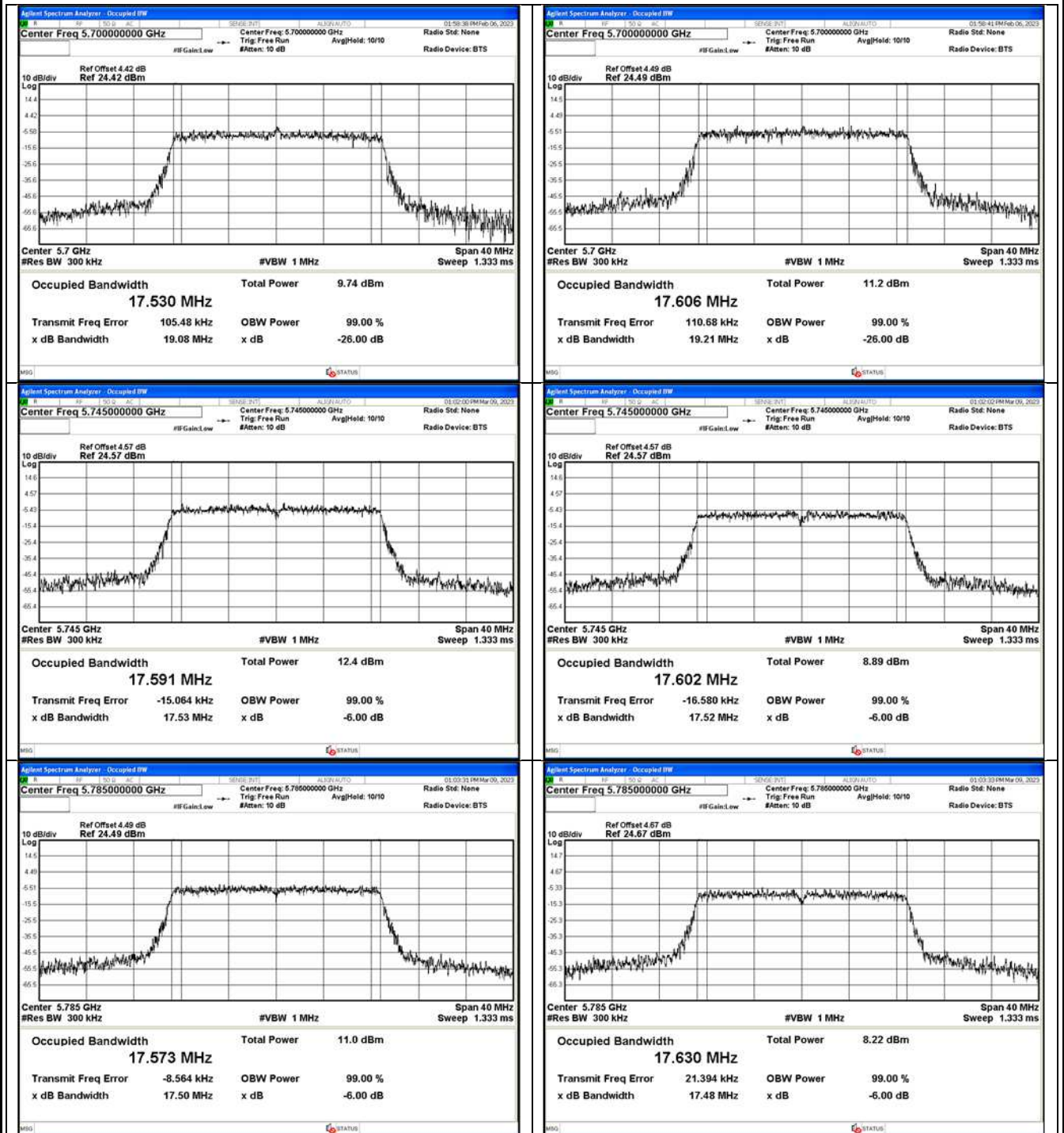
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	19.36	17.5982	19.17	17.5894
44	5200	19.33	17.5889	18.94	17.5560
48	5240	19.49	17.5887	19.16	17.5520
52	5260	19.05	17.5741	19.10	17.5861
56	5300	18.99	17.6226	19.23	17.5851
64	5320	19.41	17.5688	19.02	17.5626
100	5500	19.42	17.6280	19.03	17.5384
116	5580	19.20	17.5521	19.16	17.5613
140	5700	19.08	17.5304	19.21	17.6059

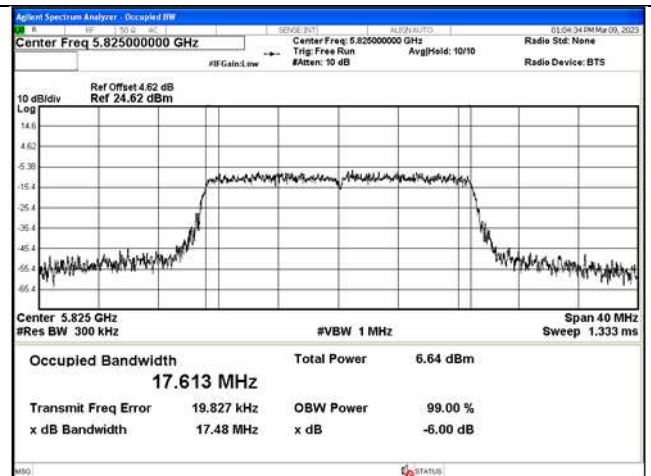
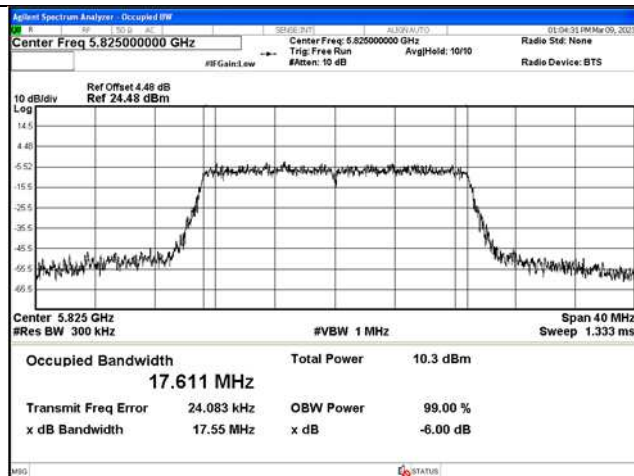
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	17.53	17.5910	17.52	17.6018
157	5785	17.50	17.5729	17.48	17.6297
165	5825	17.55	17.6107	17.48	17.6129







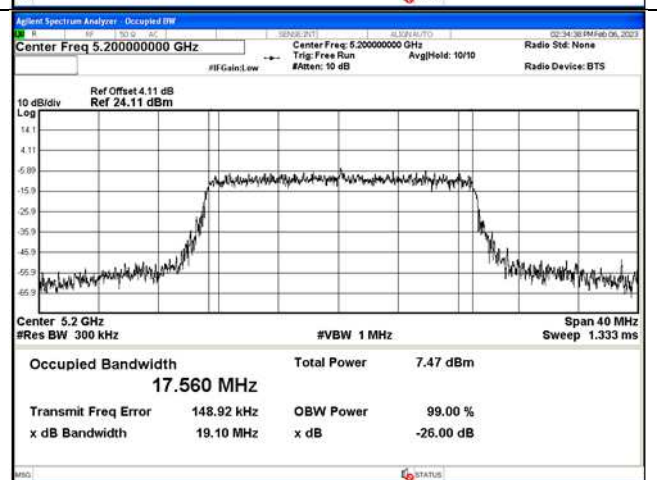
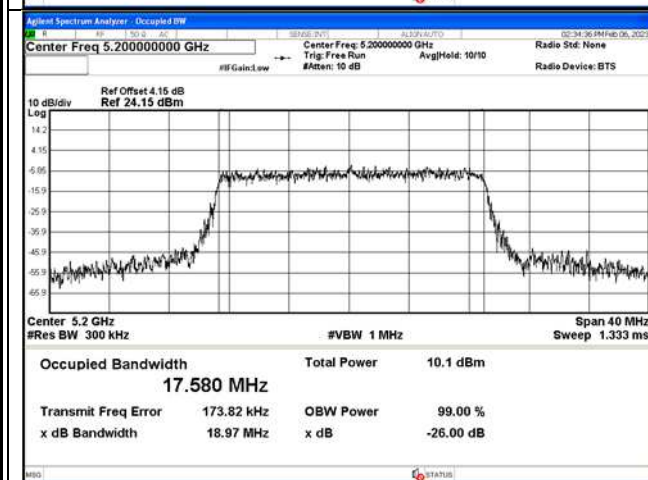
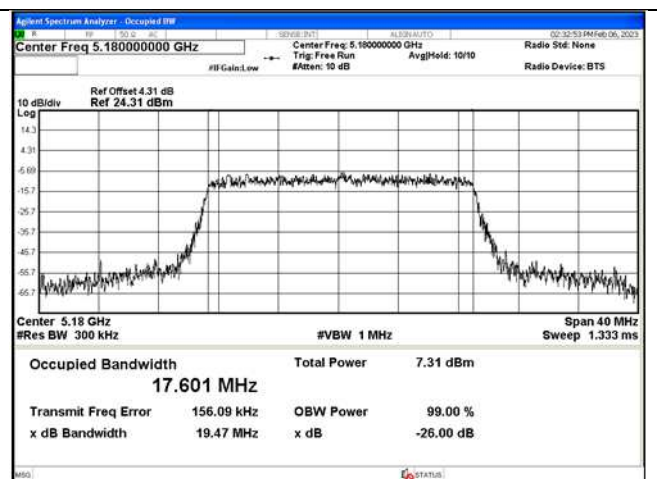
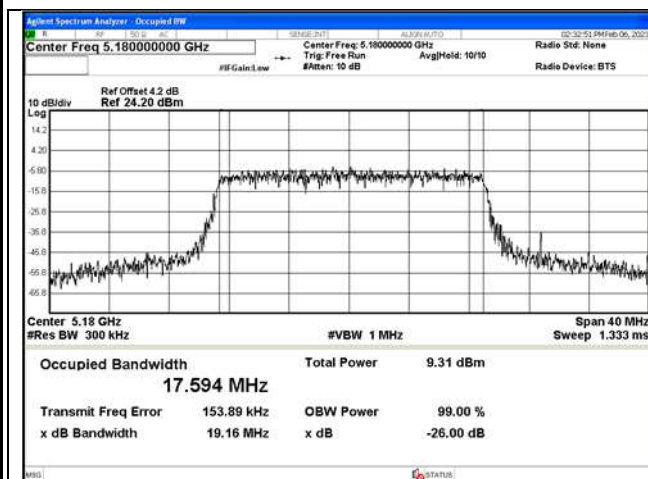


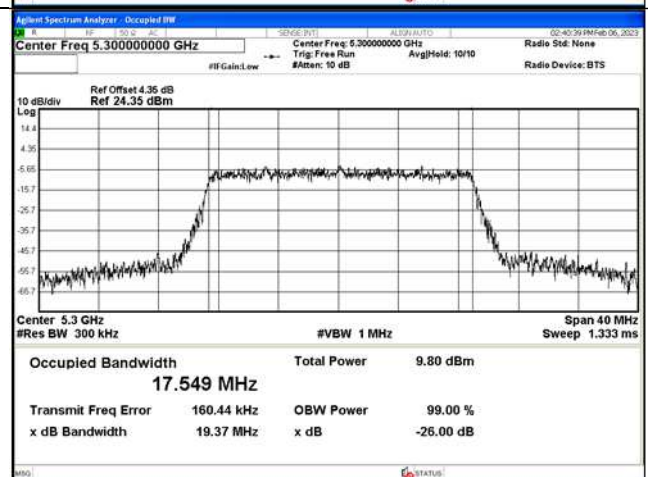
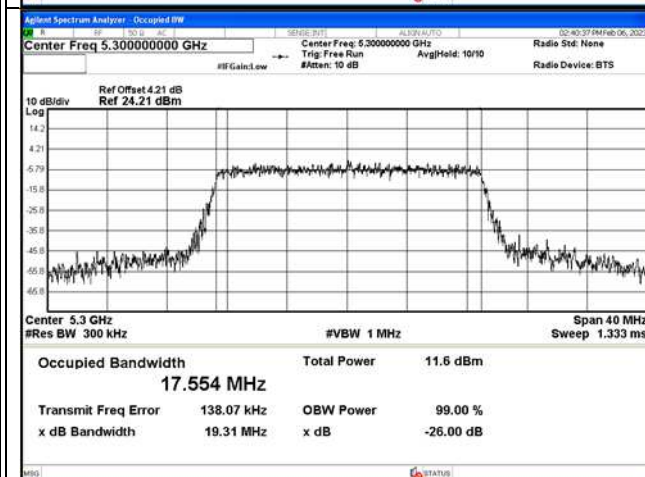
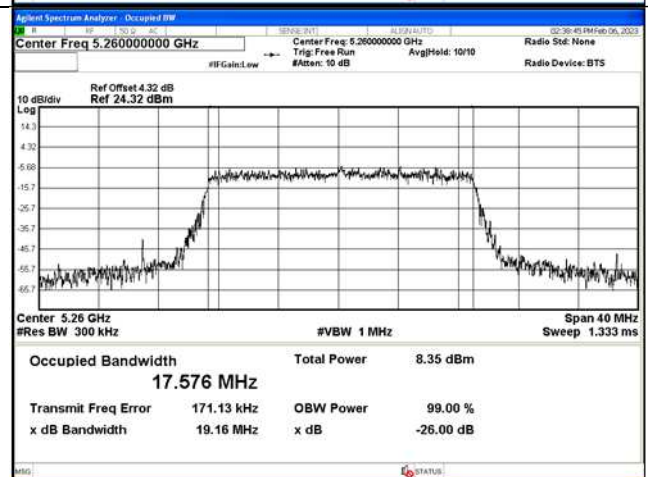
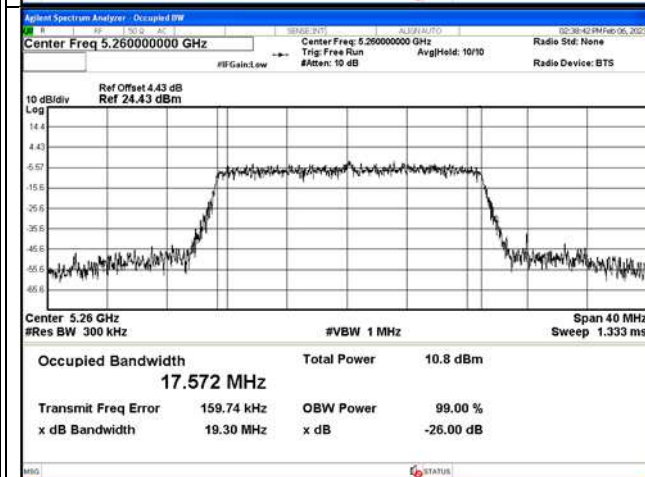
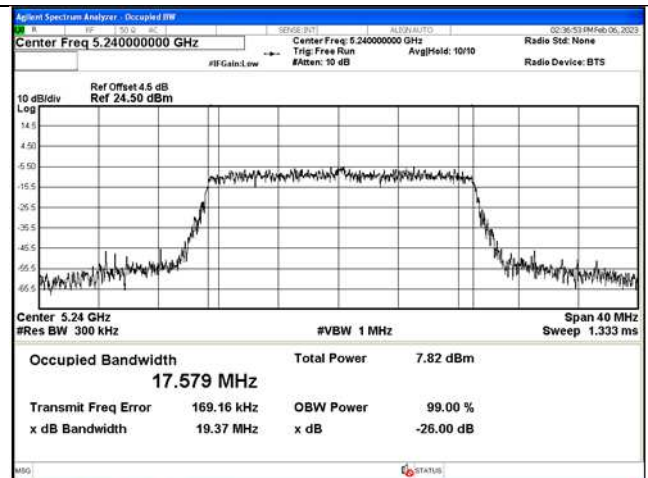
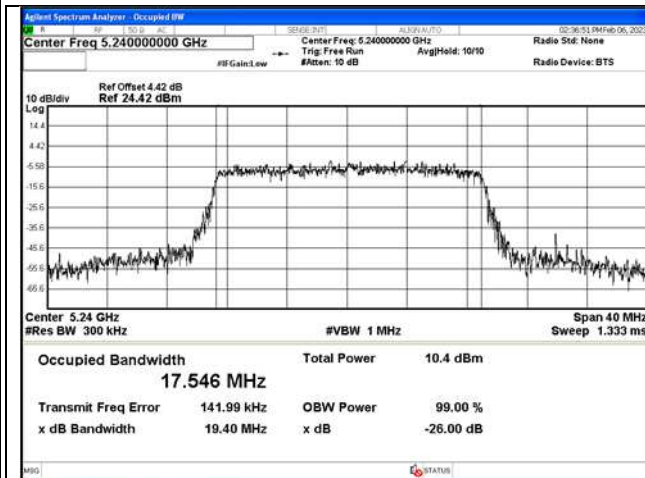


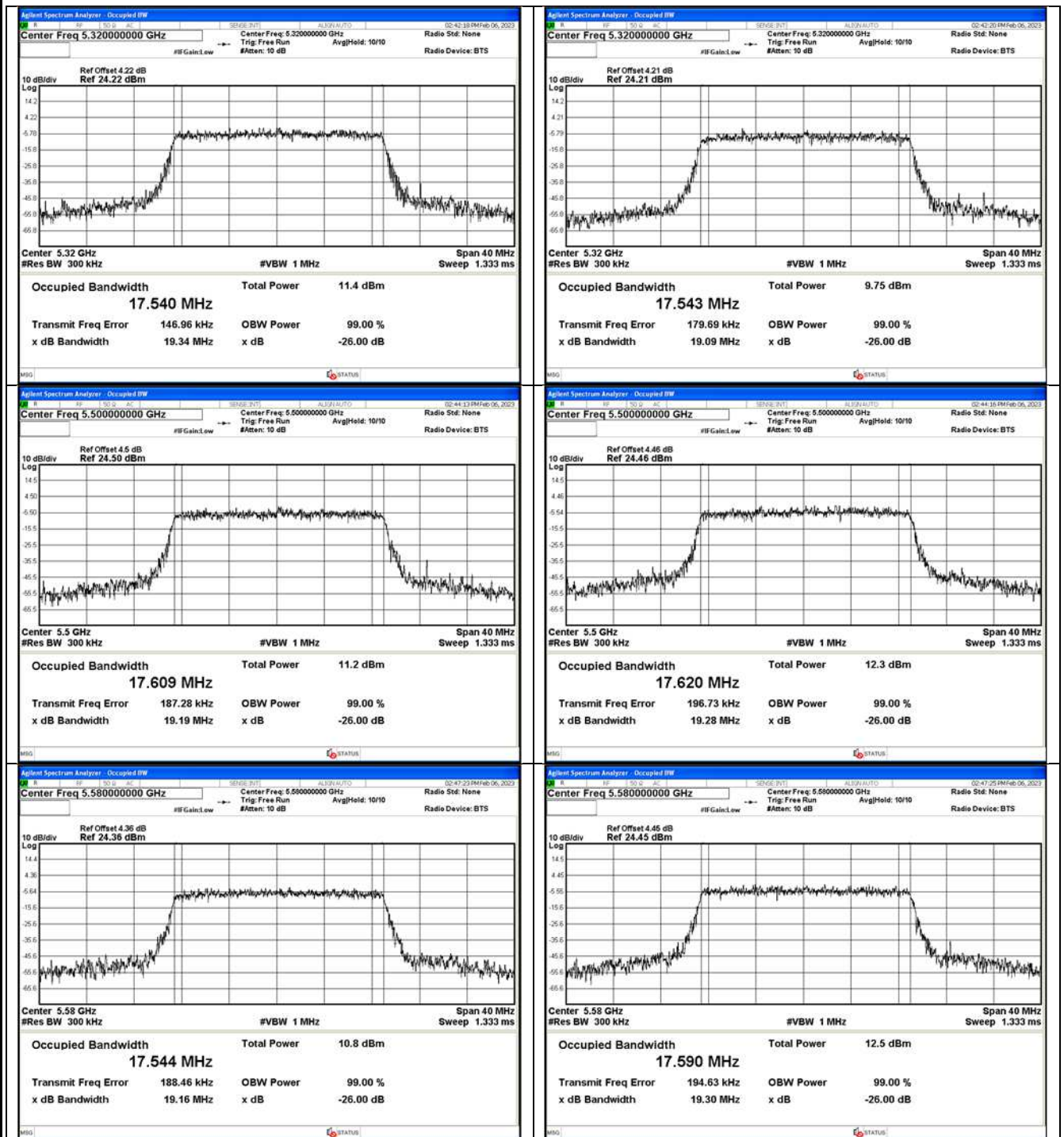
802.11ac(VHT20) mode:

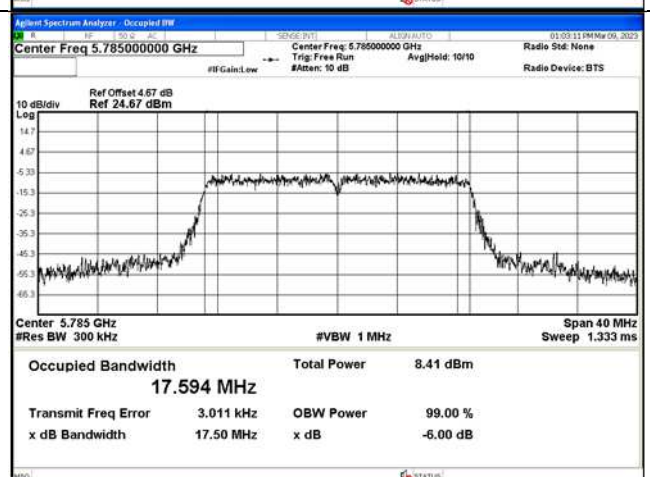
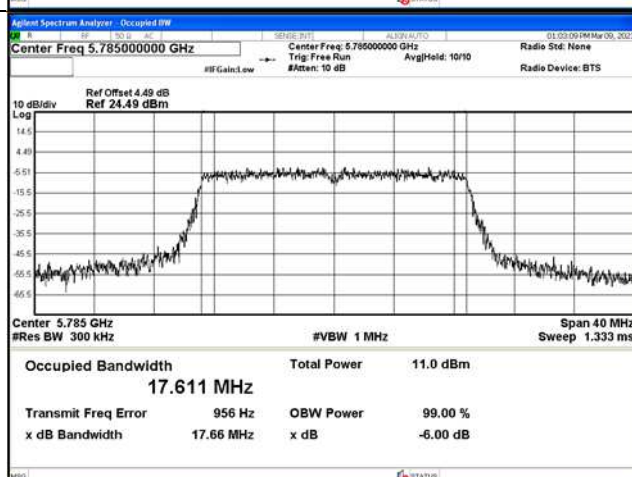
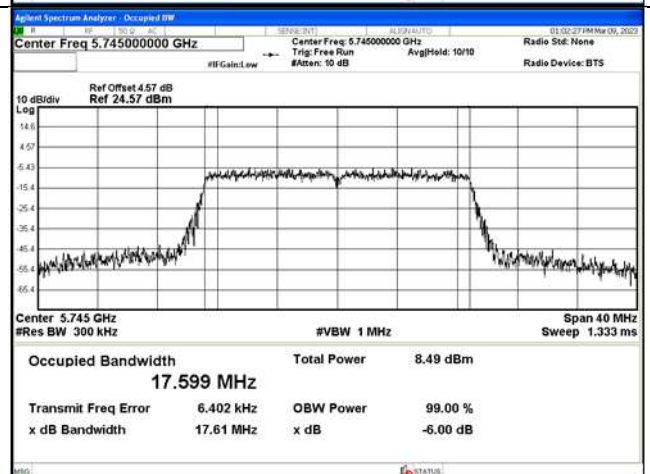
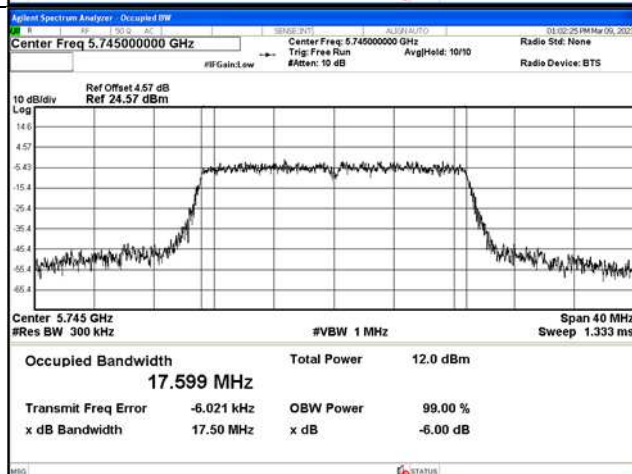
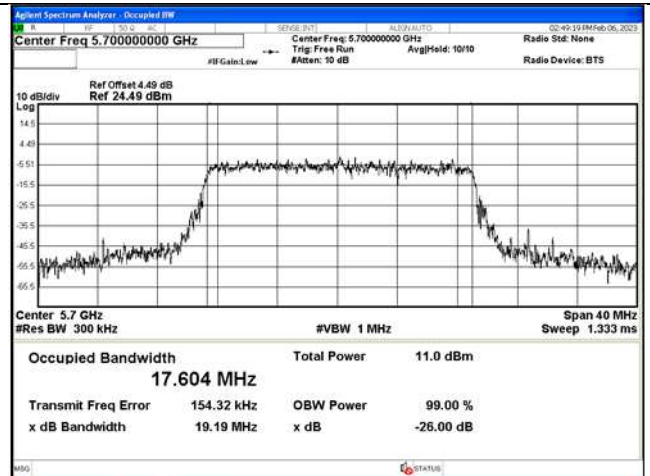
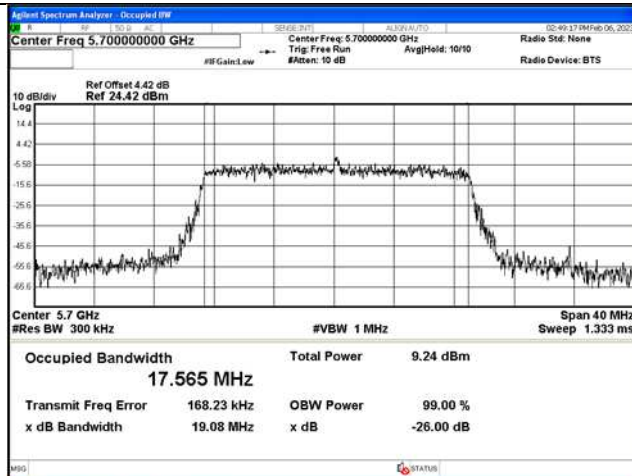
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	19.16	17.5944	19.47	17.6014
44	5200	18.97	17.5799	19.10	17.5600
48	5240	19.40	17.5459	19.37	17.5788
52	5260	19.30	17.5722	19.16	17.5763
56	5300	19.31	17.5540	19.37	17.5492
64	5320	19.34	17.5399	19.09	17.5425
100	5500	19.19	17.6091	19.28	17.6198
116	5580	19.16	17.5444	19.30	17.5900
140	5700	19.08	17.5648	19.19	17.6036

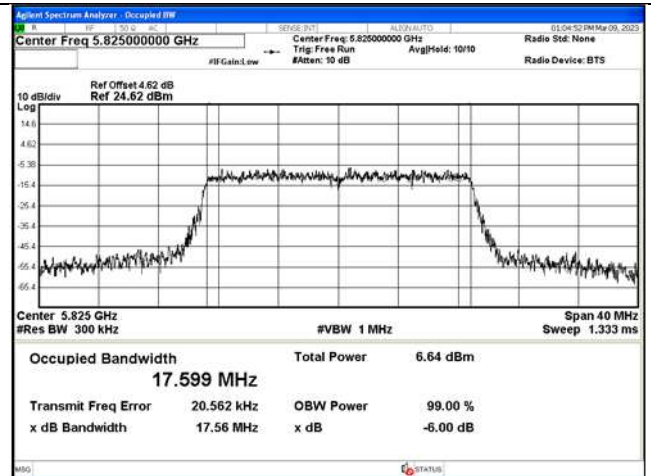
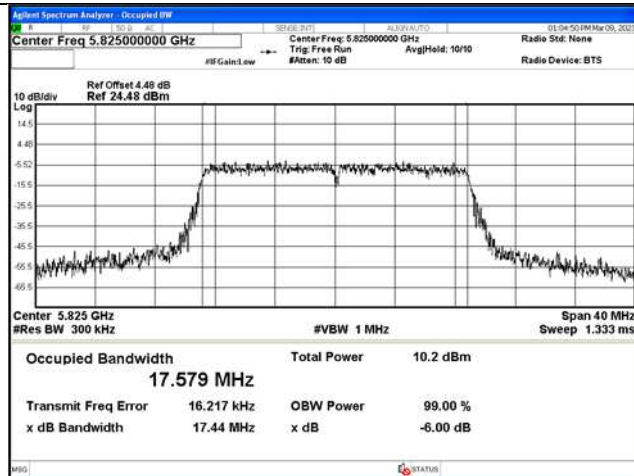
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	17.50	17.5989	17.61	17.5994
157	5785	17.66	17.6110	17.50	17.5935
165	5825	17.44	17.5794	17.56	17.5986







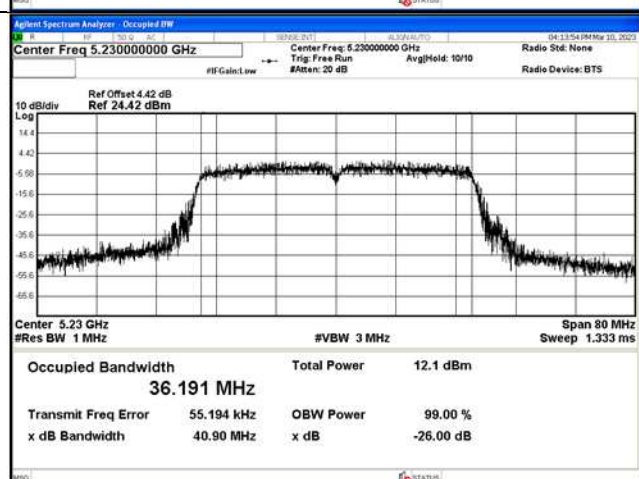
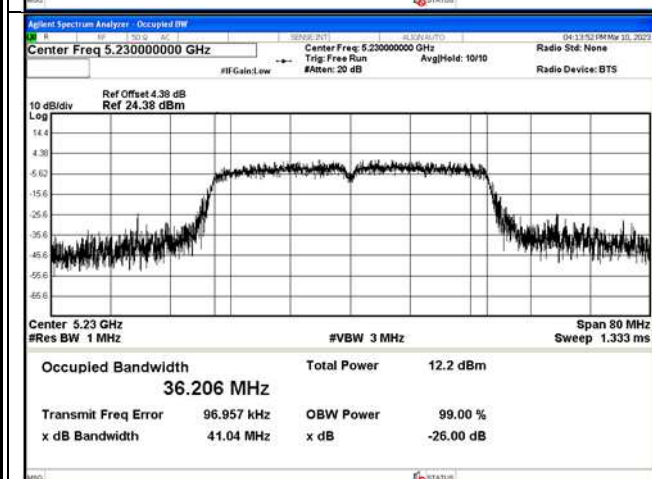
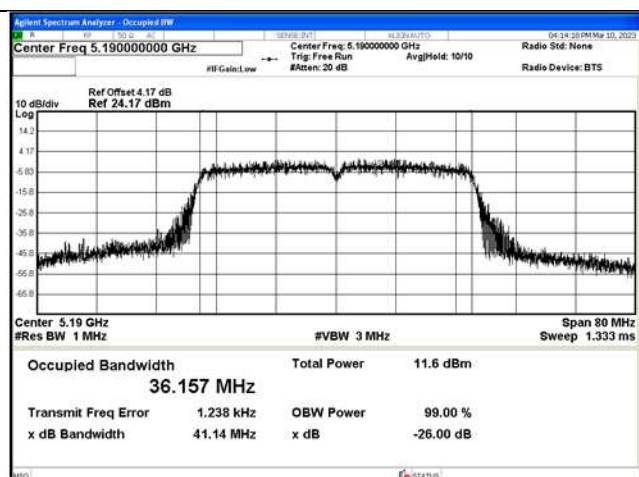
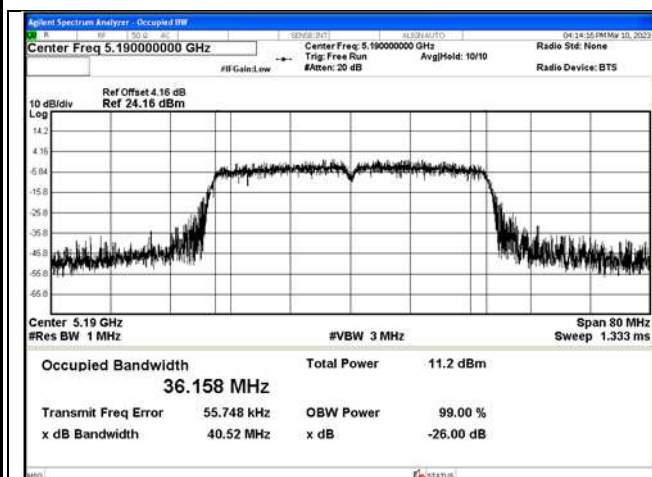


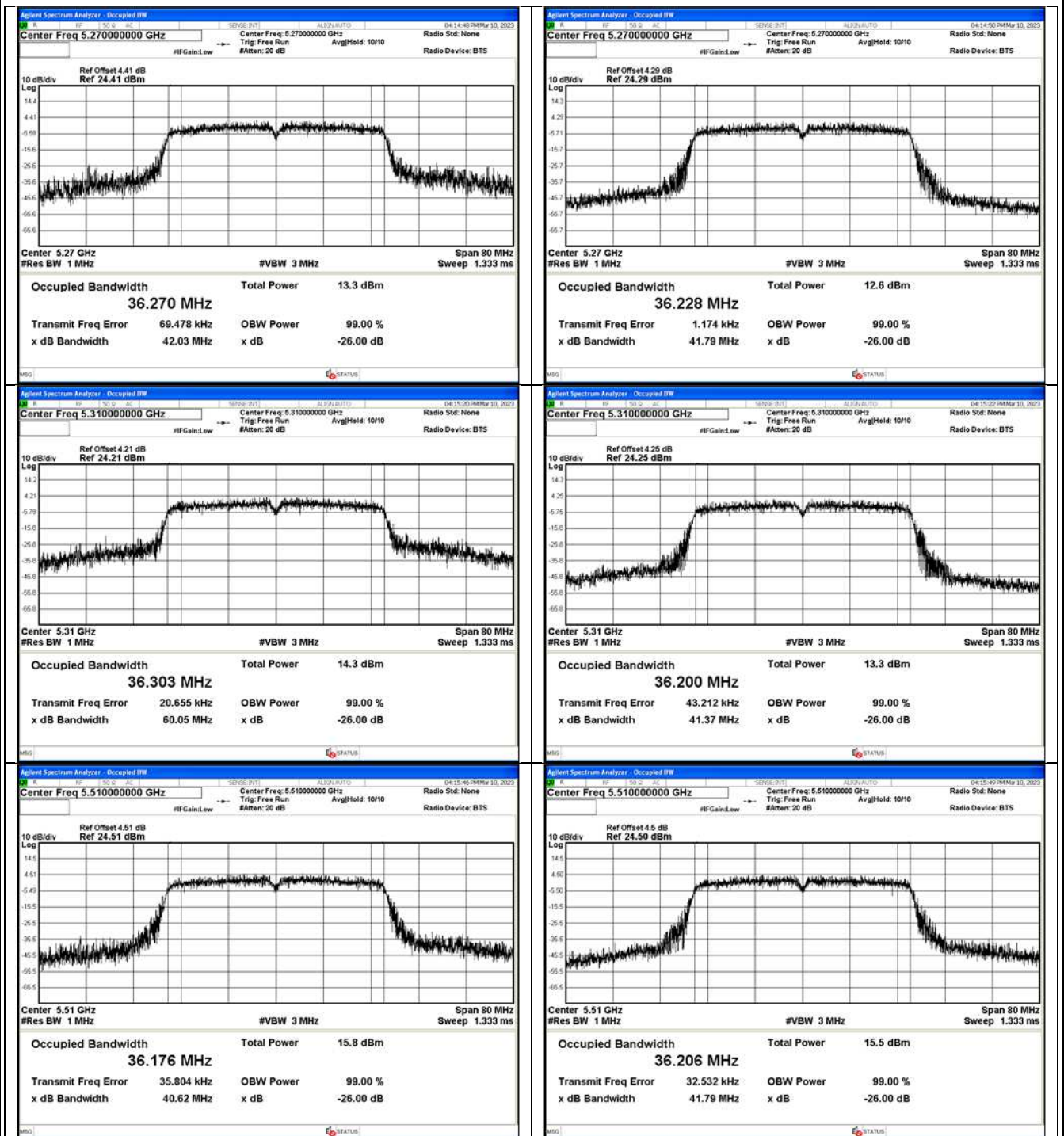


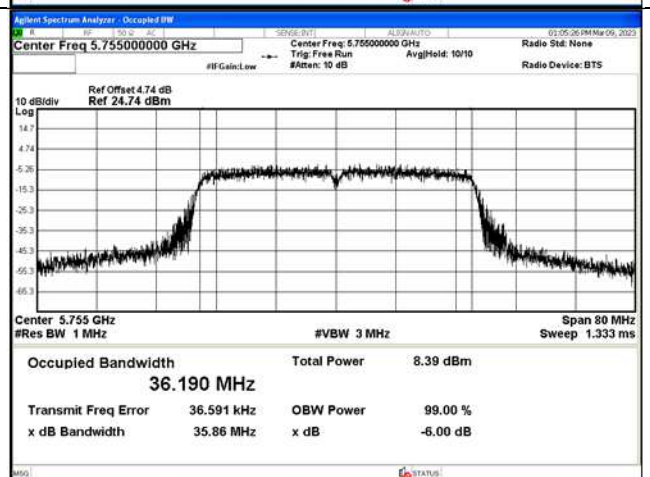
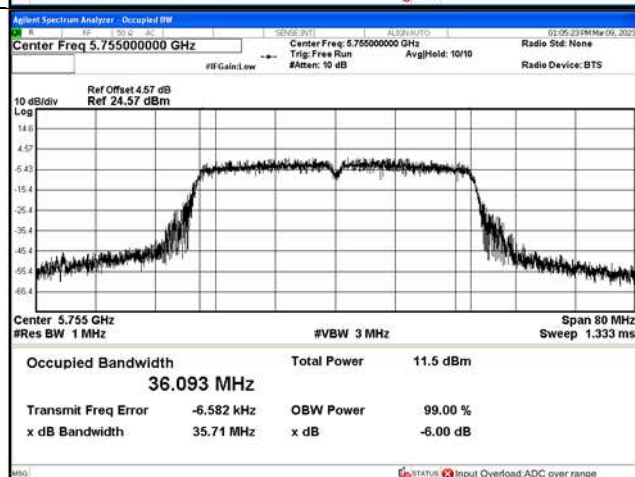
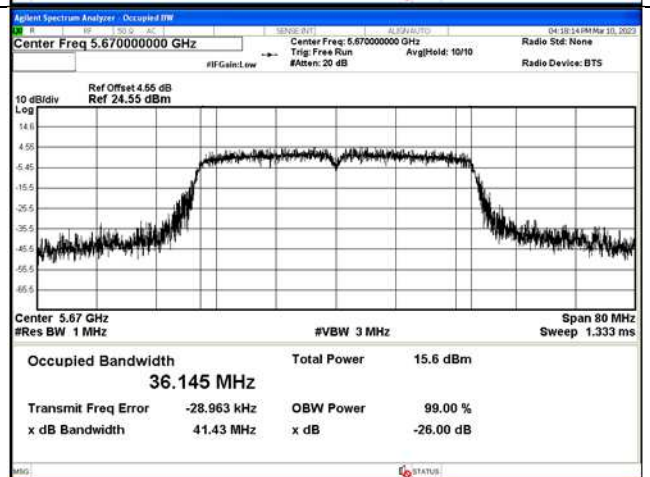
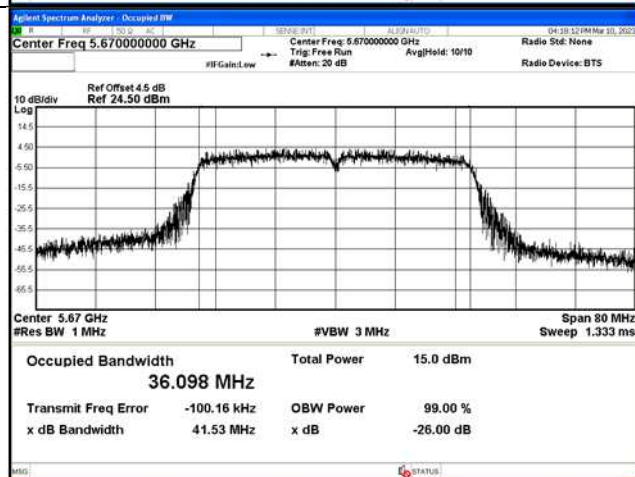
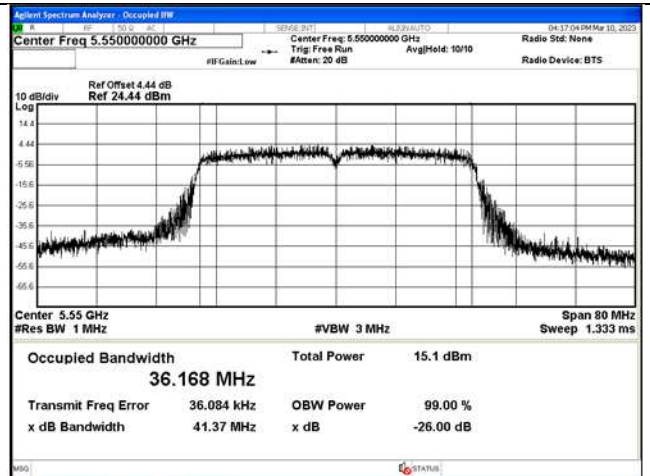
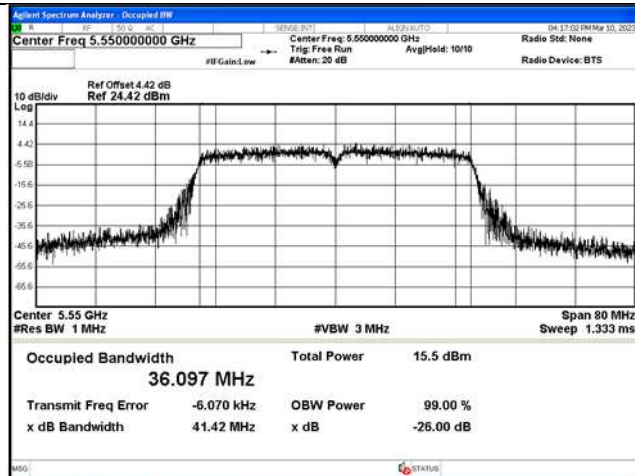
802.11n(HT40) mode:

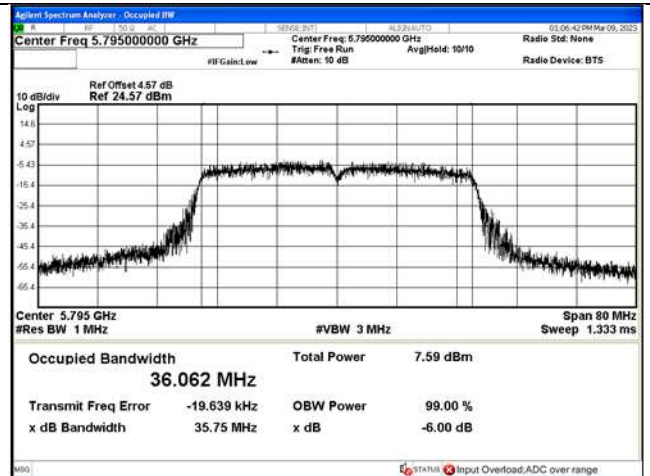
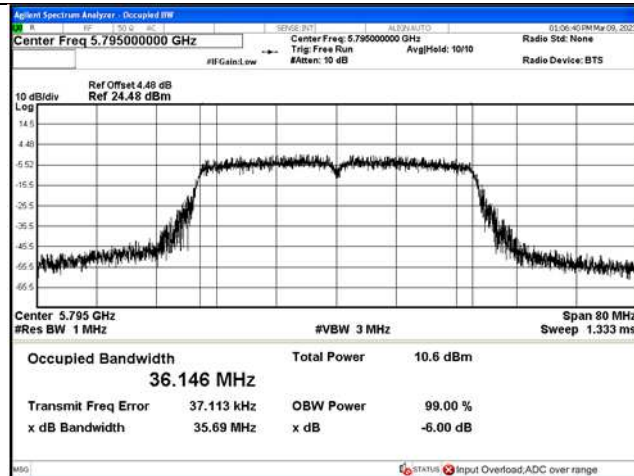
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	40.52	36.1583	41.14	36.1570
46	5230	41.04	36.2058	40.90	36.1913
54	5270	42.03	36.2704	41.79	36.2284
62	5310	60.05	36.3030	41.37	36.2000
102	5510	40.62	36.1763	41.79	36.2059
110	5550	41.42	36.0968	41.37	36.1676
134	5670	41.53	36.0978	41.43	36.1452

Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.71	36.0926	35.86	36.1899
159	5795	35.69	36.1459	35.75	36.0617





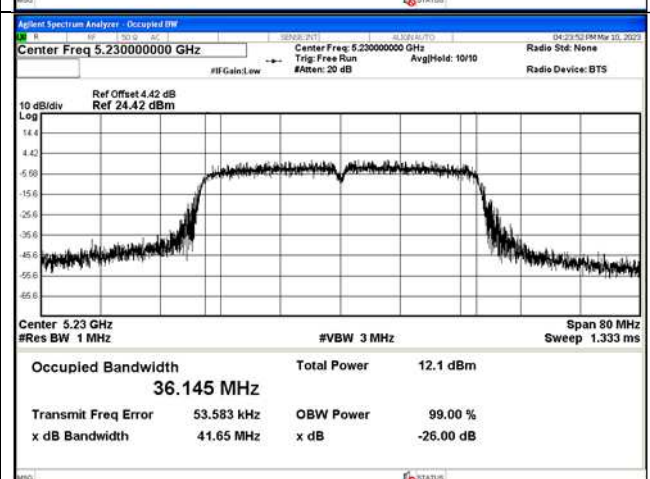
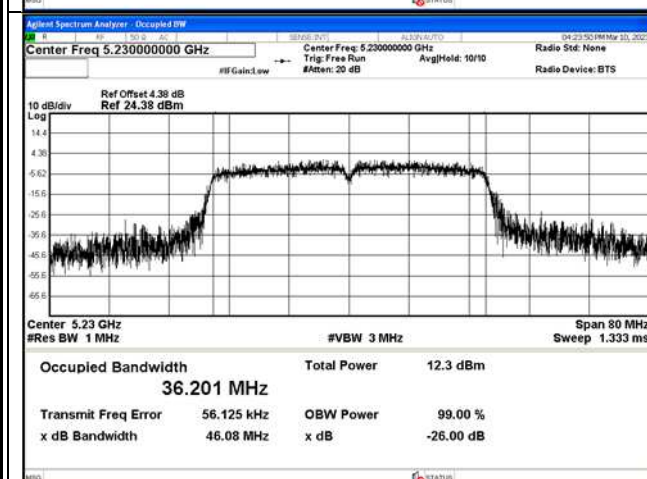
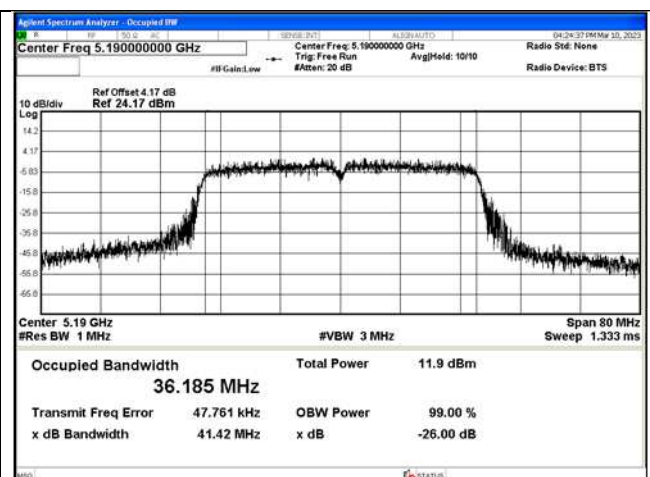
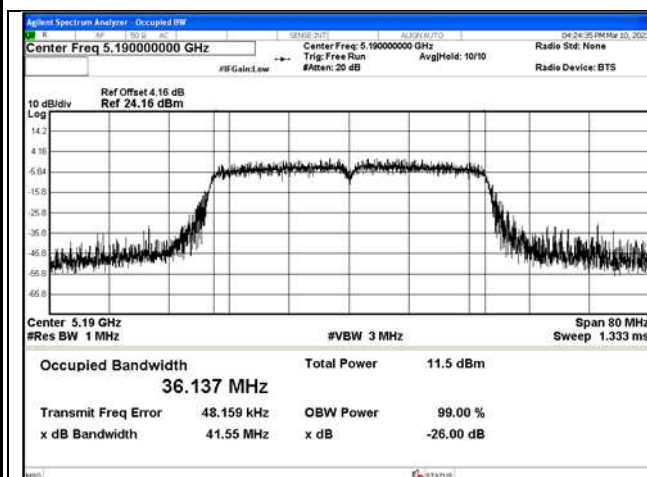


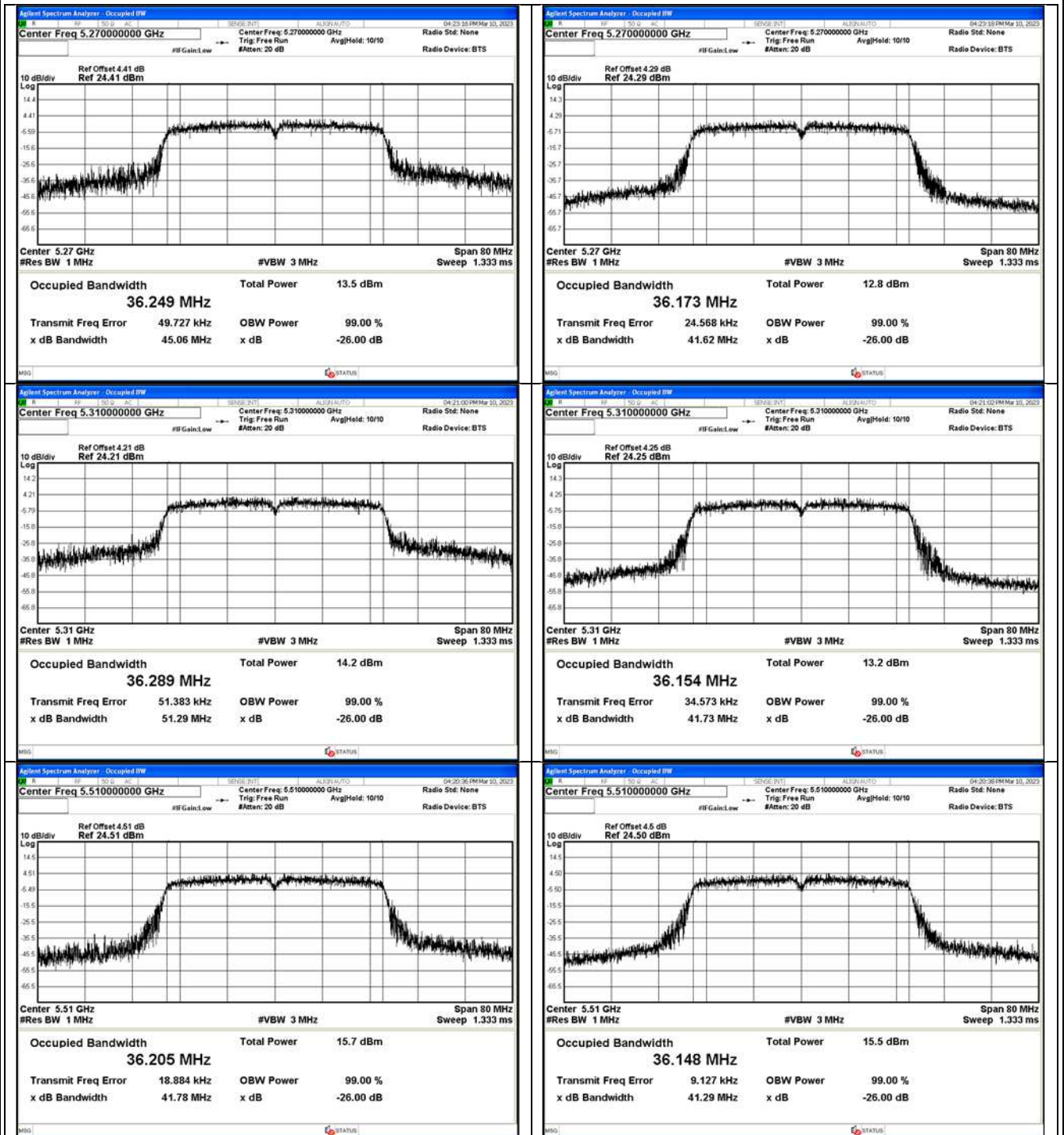


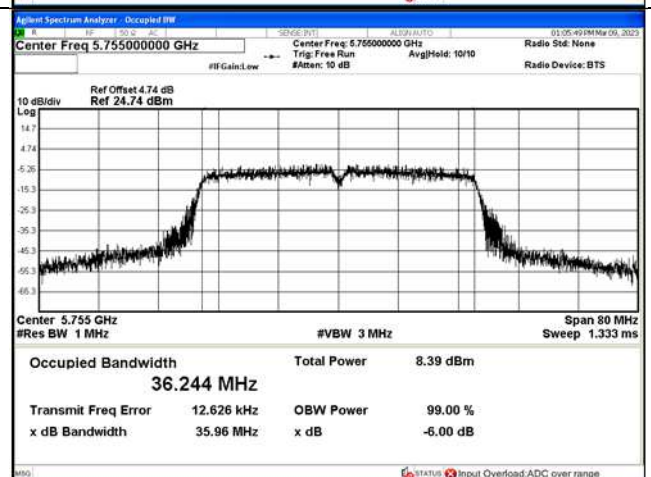
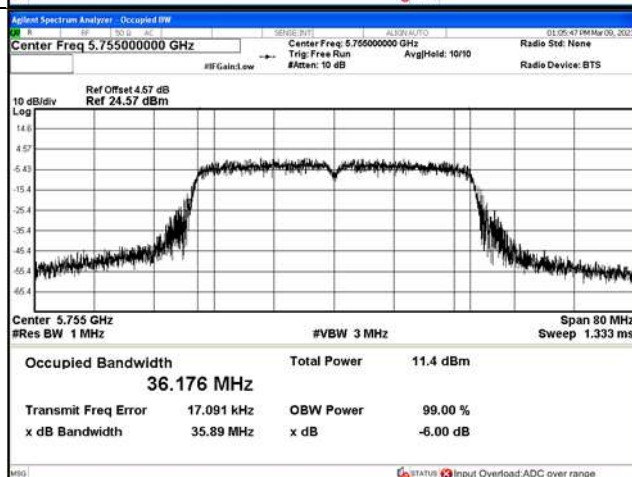
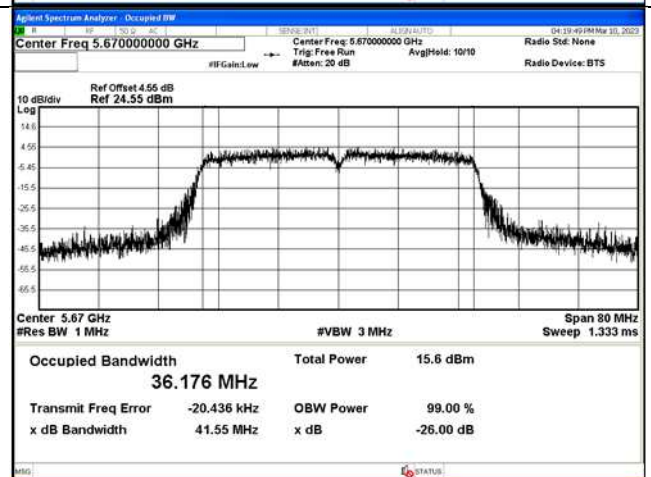
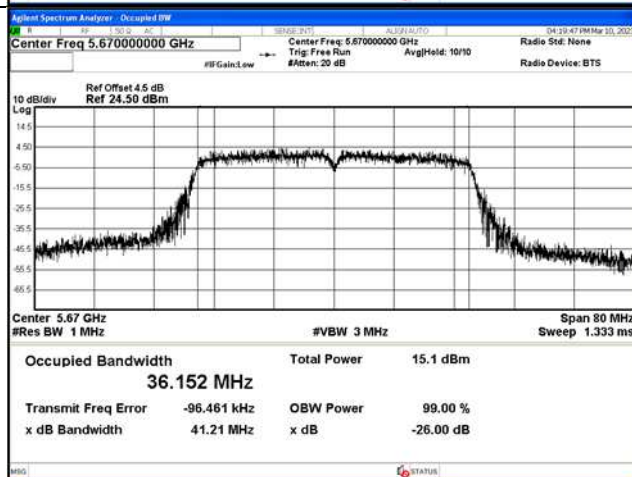
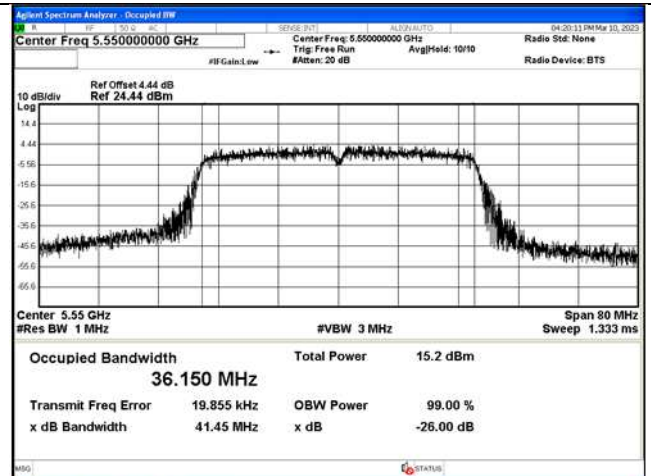
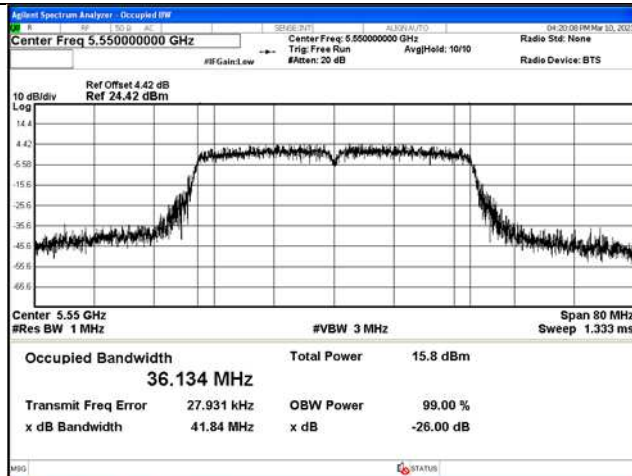
802.11ac(VHT40) mode:

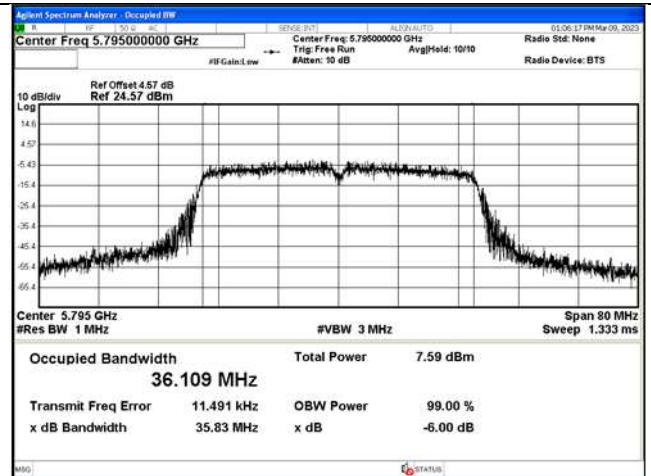
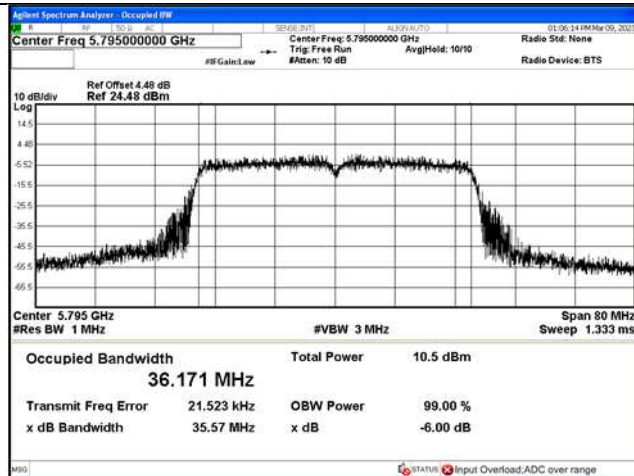
Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	41.55	36.1373	41.42	36.1850
46	5230	46.08	36.2011	41.65	36.1451
54	5270	45.06	36.2494	41.62	36.1731
62	5310	51.29	36.2891	41.73	36.1538
102	5510	41.78	36.2054	41.29	36.1476
110	5550	41.84	36.1337	41.45	36.1495
134	5670	41.21	36.1518	41.55	36.1764

Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.89	36.1756	35.96	36.2441
159	5795	35.37	36.1715	35.83	36.1093





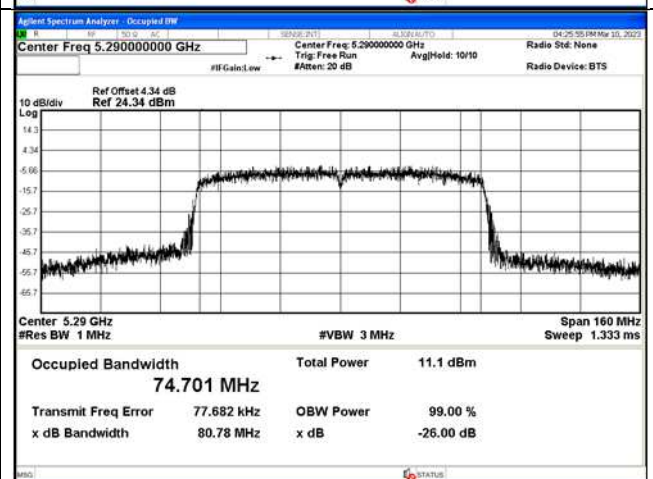
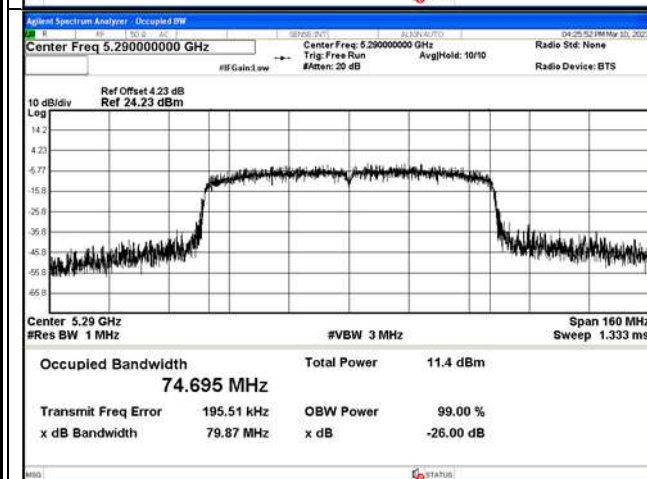
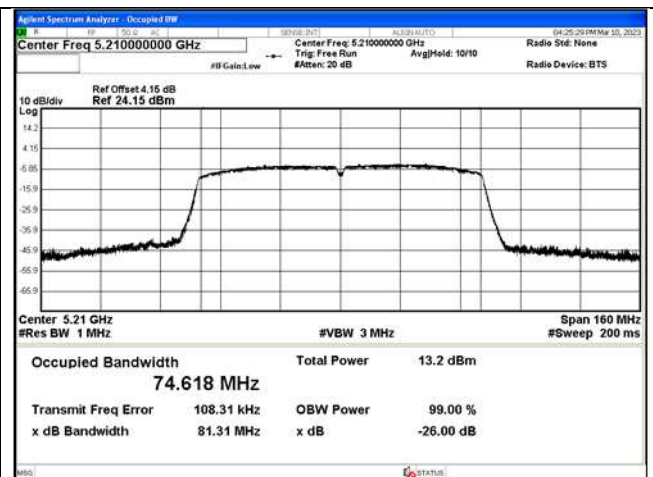
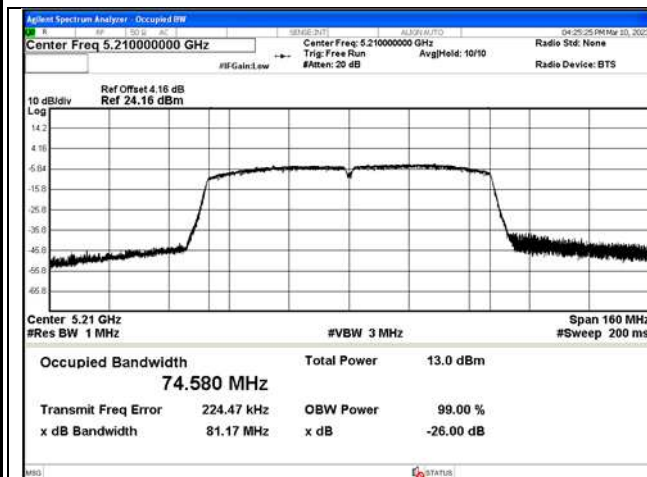


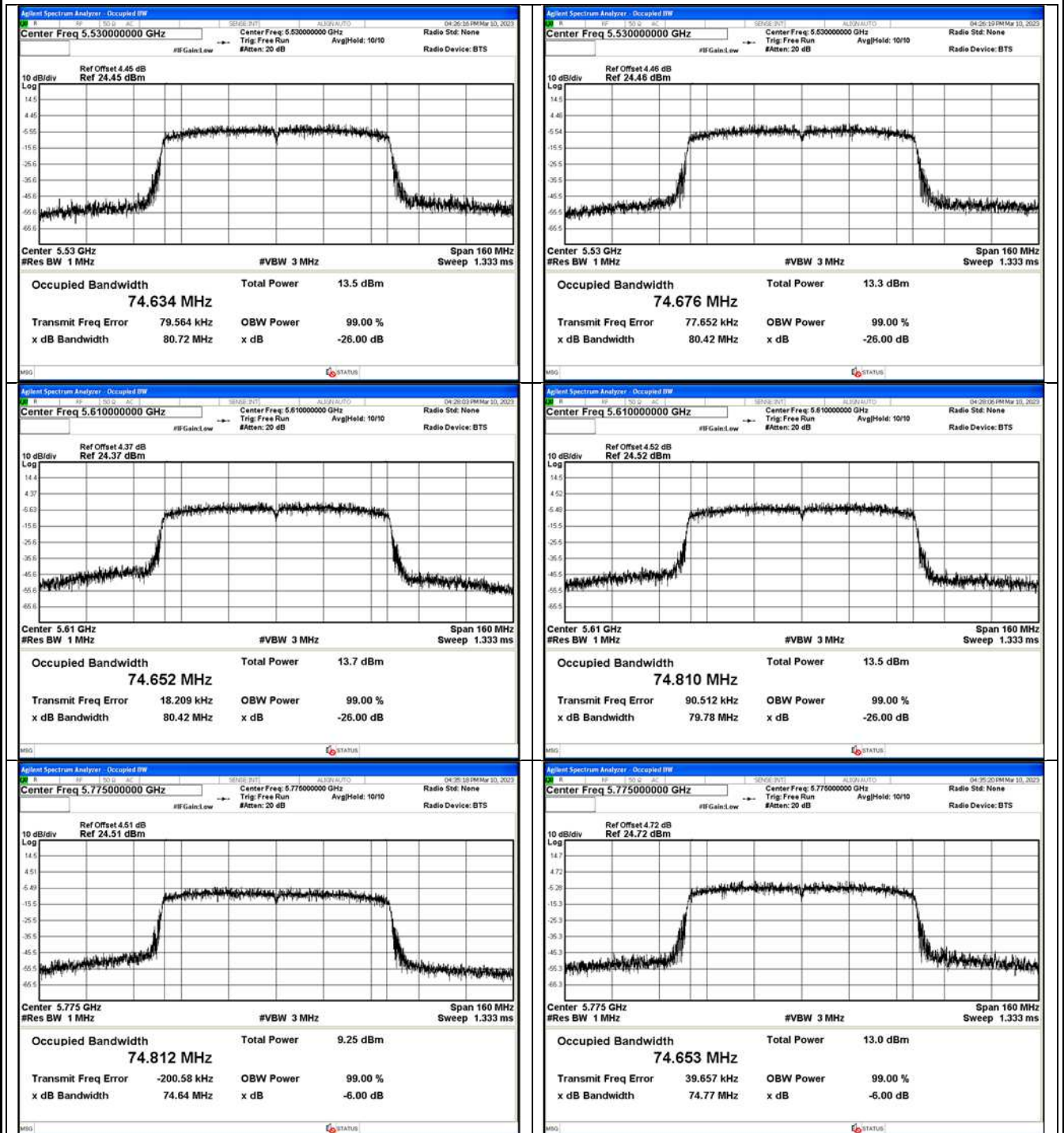


802.11ac(VHT80) mode:

Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
42	5210	81.17	74.5802	81.31	74.6176
58	5290	79.87	74.6950	80.78	74.7008
106	5530	80.72	74.6343	80.42	74.6761
138	5610	80.42	74.6520	79.78	74.8098

Channel	Channel Frequency (MHz)	ANT1_Emission Bandwidth		ANT2_Emission Bandwidth	
		6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
155	5775	74.64	74.8116	74.77	74.6526





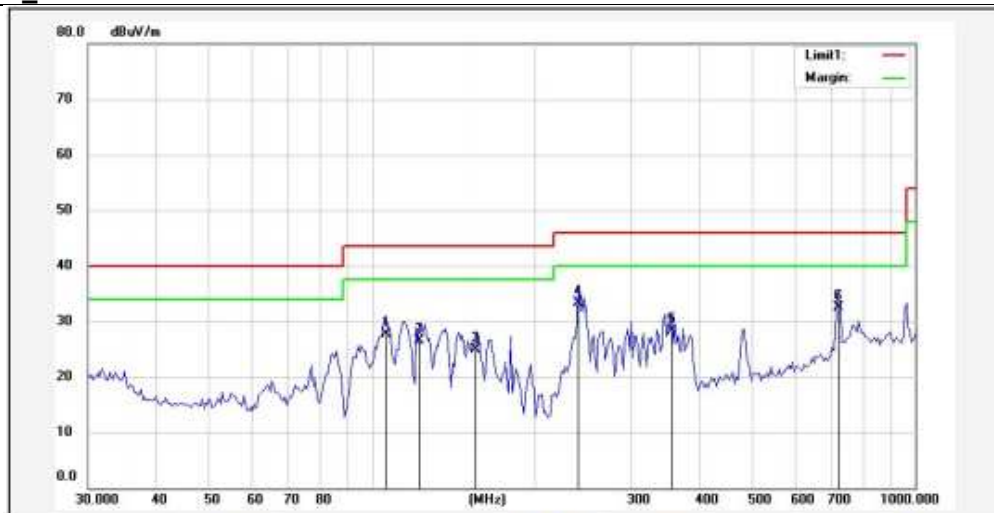
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

All the data rate and configurations have been tested and only the worst case mode (802.11a, n(HT20,HT40) and ac(VHT20,VHT40,VHT80)) reported.

Appendix B.4: Test Results of Radiated Spurious Emissions

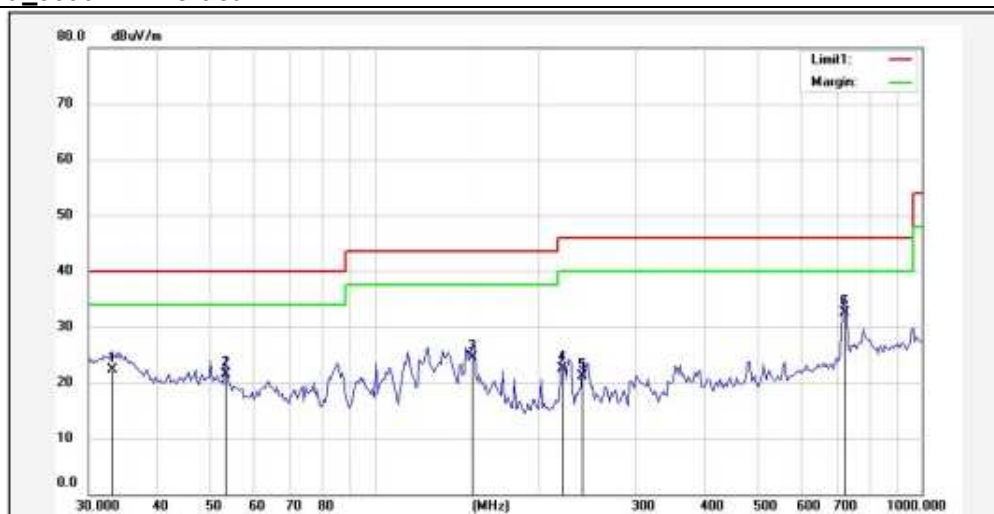
30MHz - 1GHz

Wi-Fi 5G 11a_5500MHz Horizontal



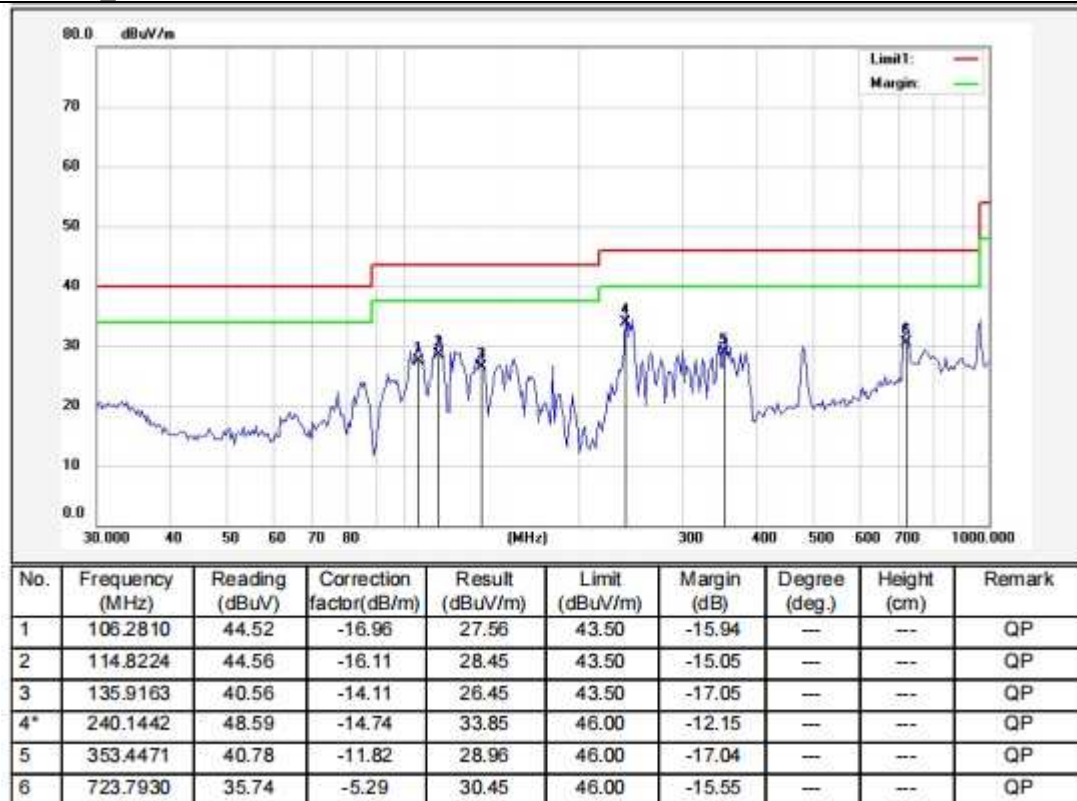
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	106.2810	44.68	-16.96	27.72	43.50	-15.78	---	---	QP
2	122.3187	42.06	-15.54	26.52	43.50	-16.98	---	---	QP
3	155.3305	38.22	-13.28	24.94	43.50	-18.56	---	---	QP
4*	240.1442	48.04	-14.74	33.30	46.00	-12.70	---	---	QP
5	355.9397	40.03	-11.77	28.26	46.00	-17.74	---	---	QP
6	723.7930	37.85	-5.29	32.56	46.00	-13.44	---	---	QP

Wi-Fi 5G 11a_5500MHz Vertical

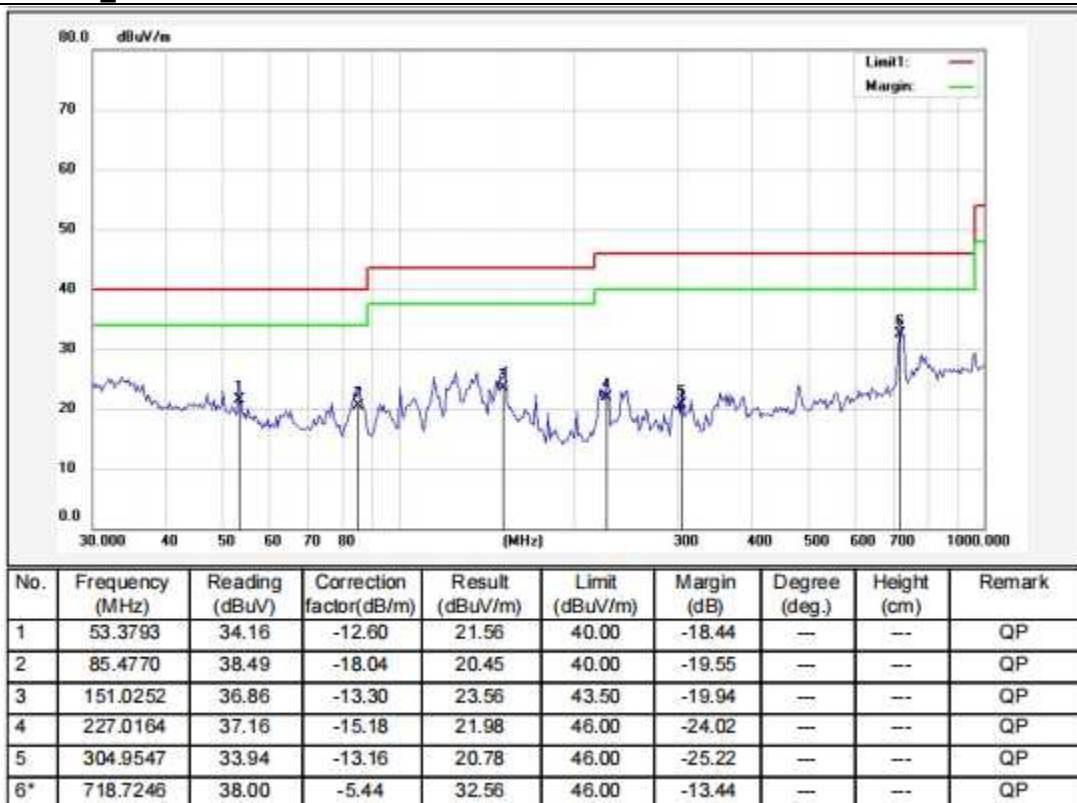


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	33.1015	35.66	-13.40	22.26	40.00	-17.74	---	---	QP
2	53.3793	34.16	-12.60	21.56	40.00	-18.44	---	---	QP
3	151.0252	37.86	-13.30	24.56	43.50	-18.94	---	---	QP
4	220.7240	37.85	-15.40	22.45	46.00	-23.55	---	---	QP
5	240.1442	35.83	-14.74	21.09	46.00	-24.91	---	---	QP
6*	723.7930	37.75	-5.29	32.46	46.00	-13.54	---	---	QP

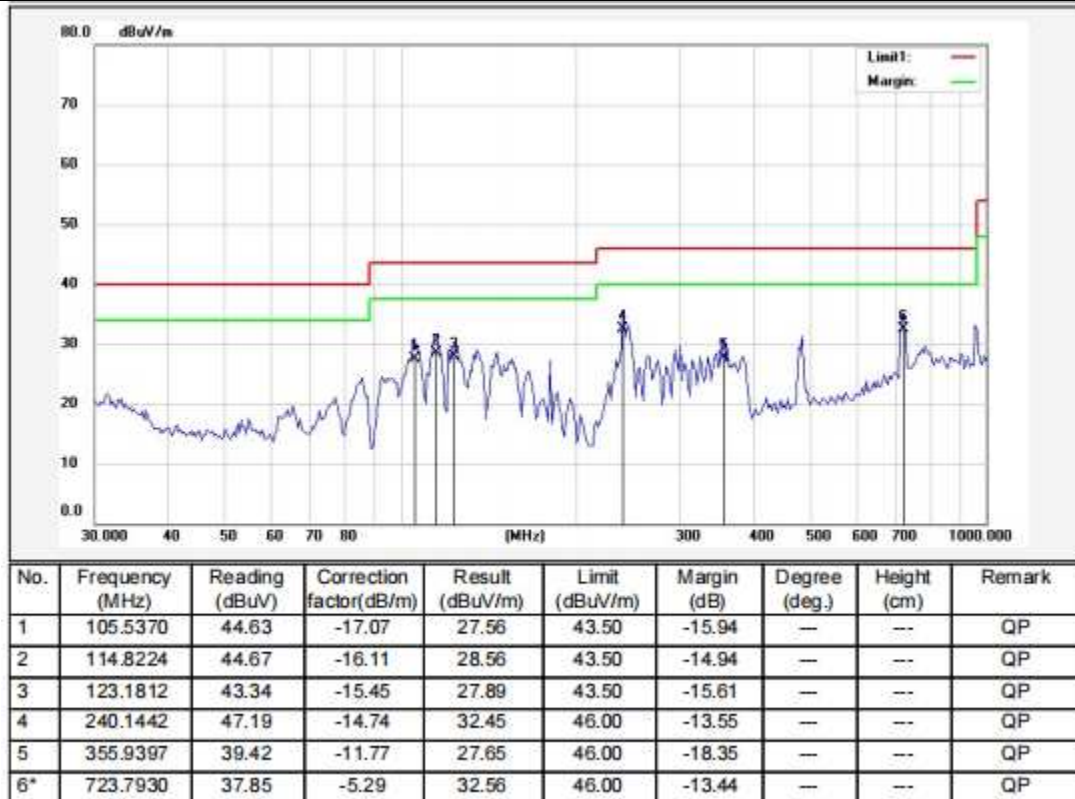
Wi-Fi 5G 11ac20_5700MHz Horizontal



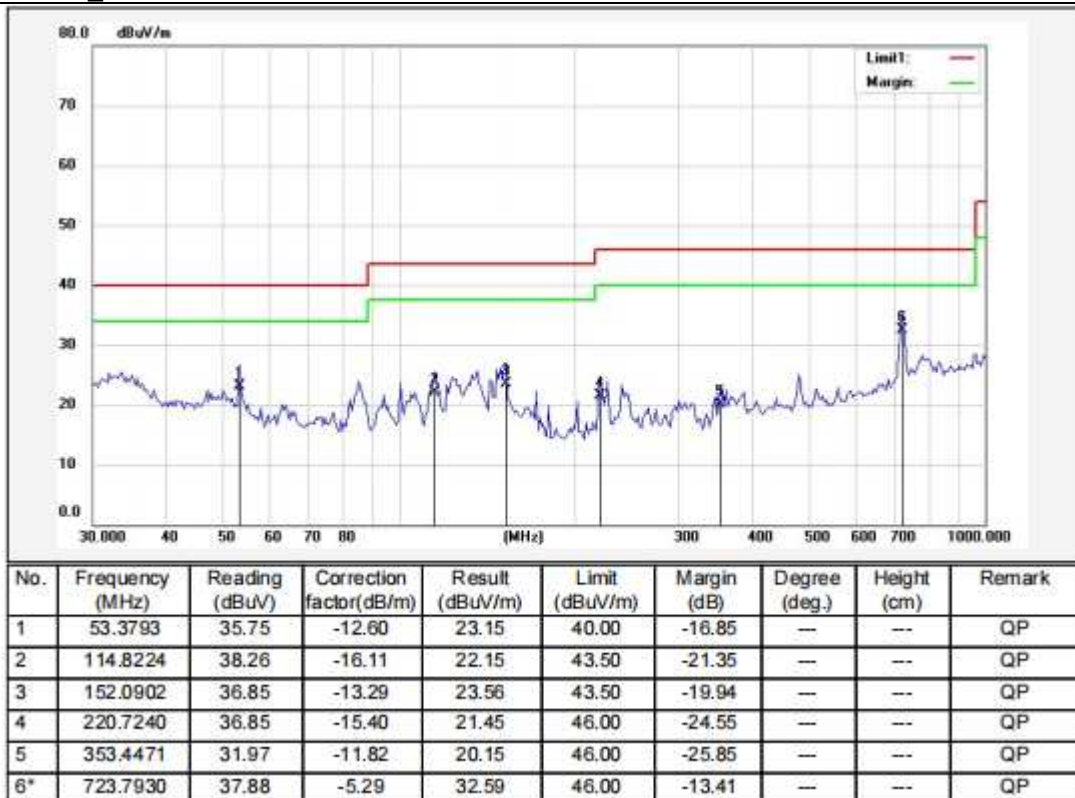
Wi-Fi 5G 11ac20_5700MHz Vertical



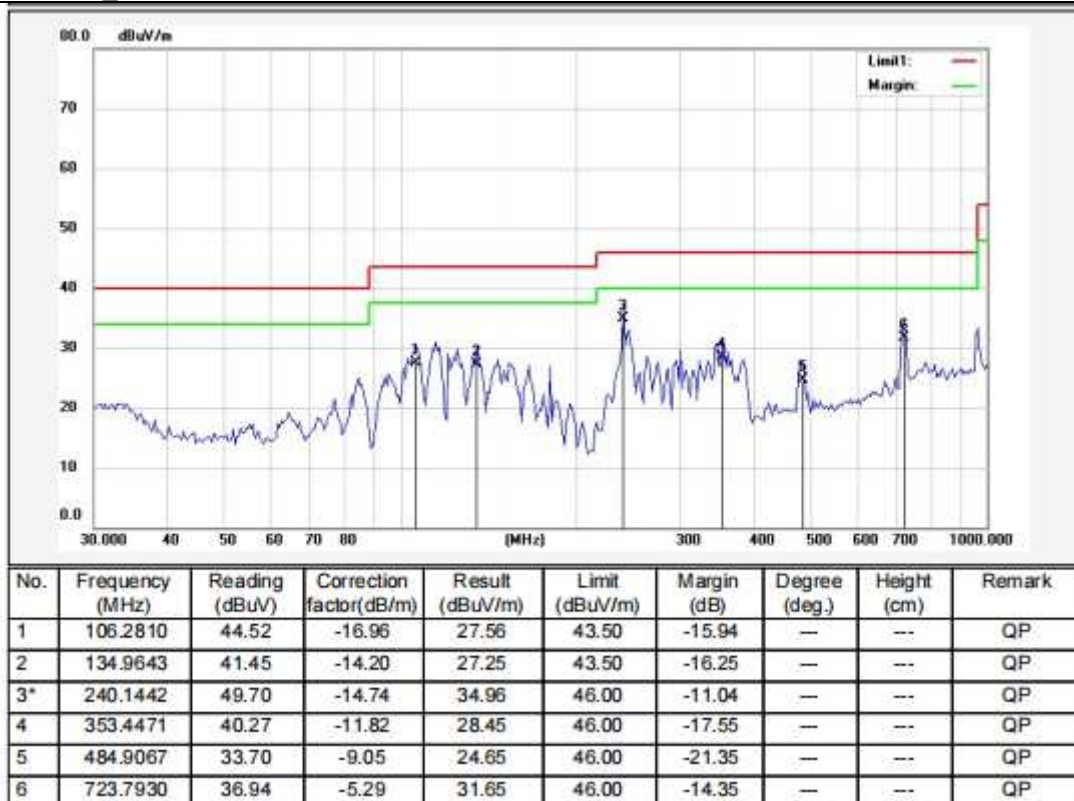
Wi-Fi 5G 11n20_5700MHz Horizontal



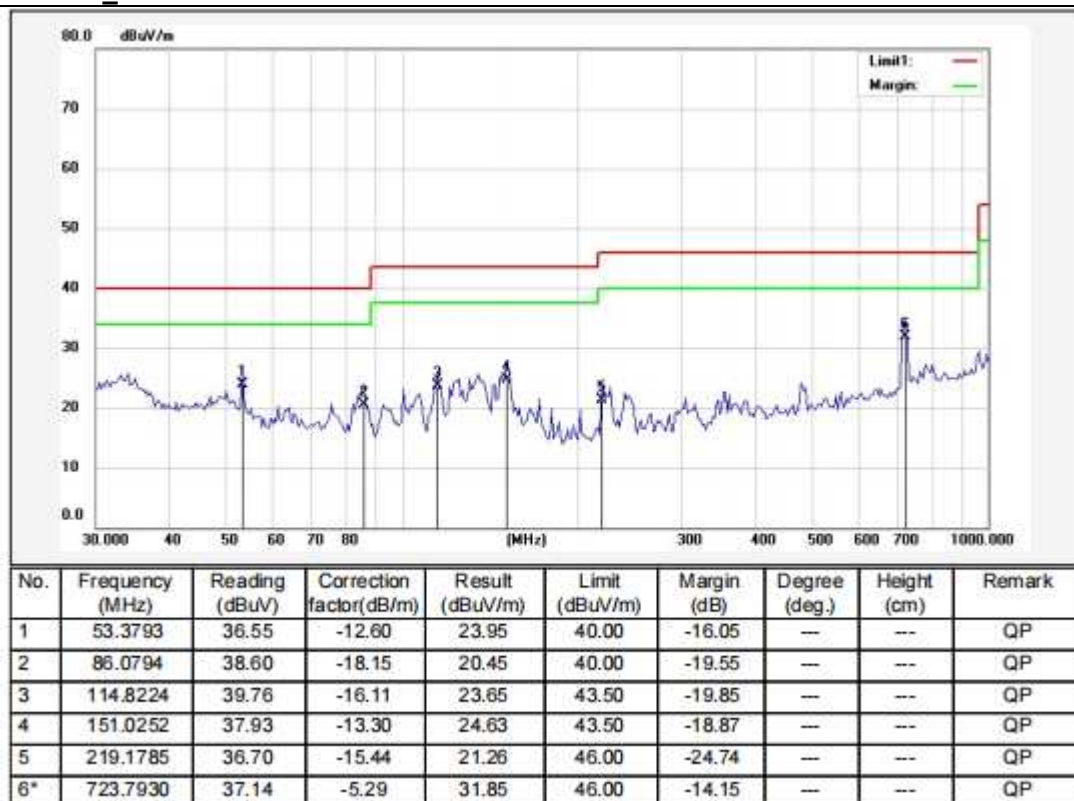
Wi-Fi 5G 11n20_5700MHz Vertical



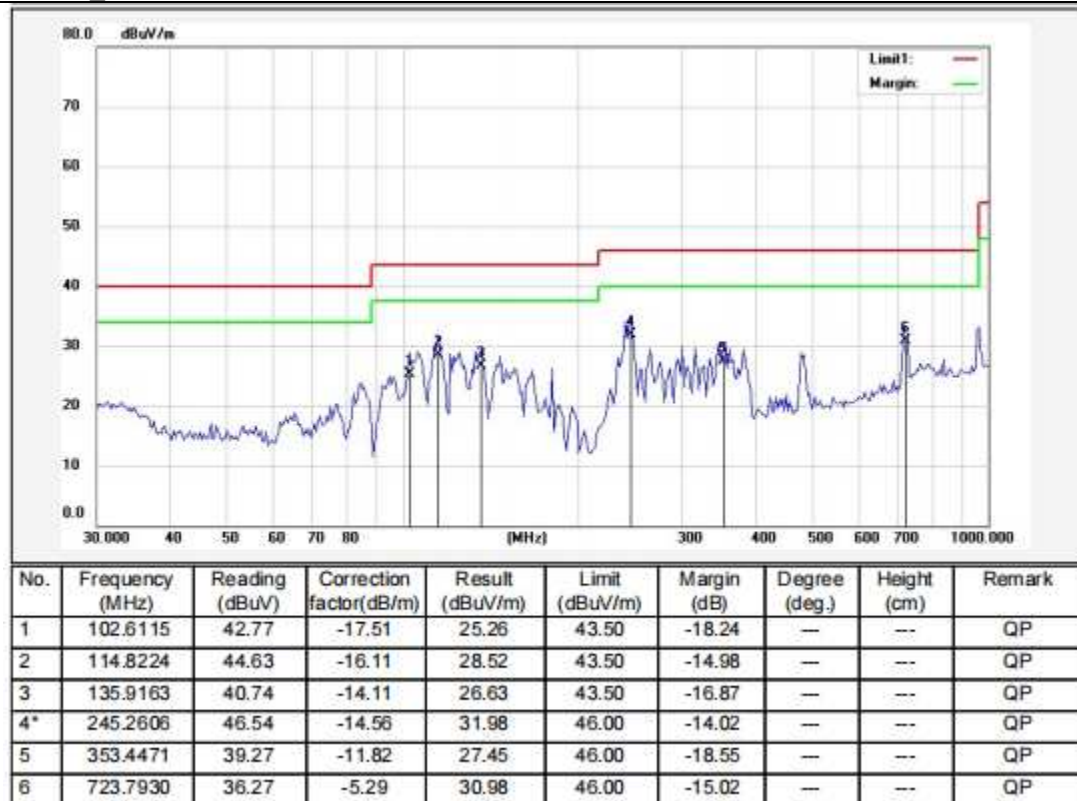
Wi-Fi 5G 11ac40_5755MHz Horizontal



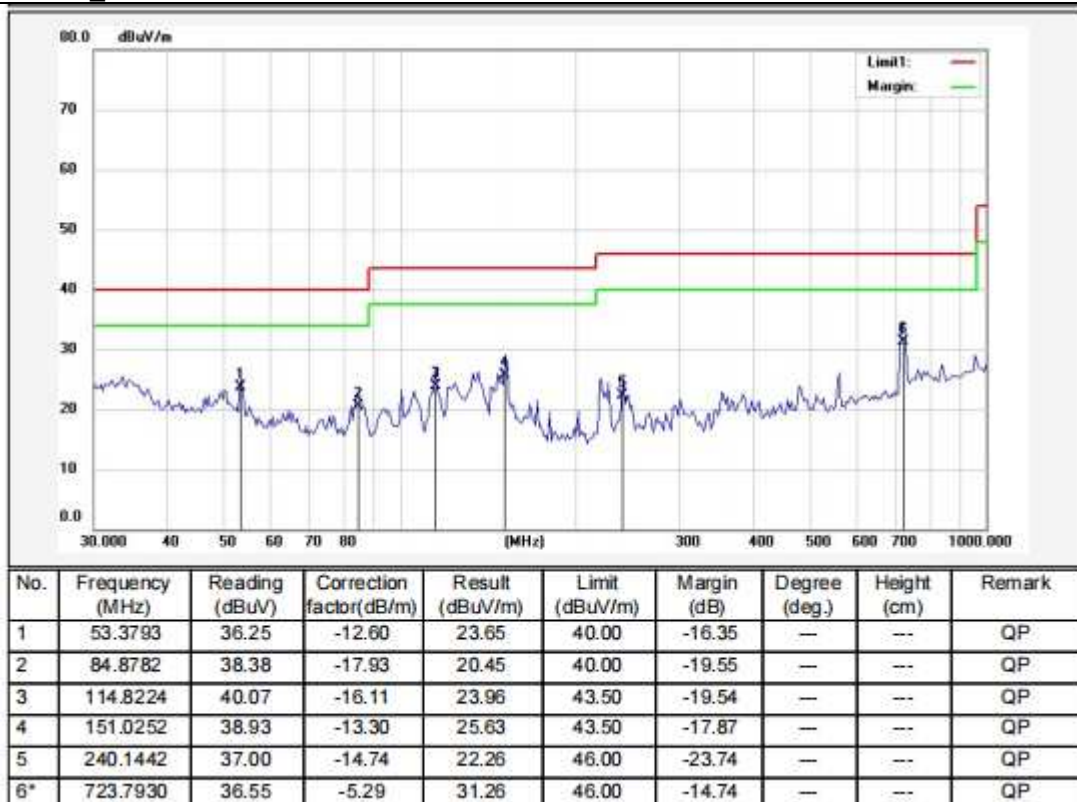
Wi-Fi 5G 11ac40_5755MHz Vertical



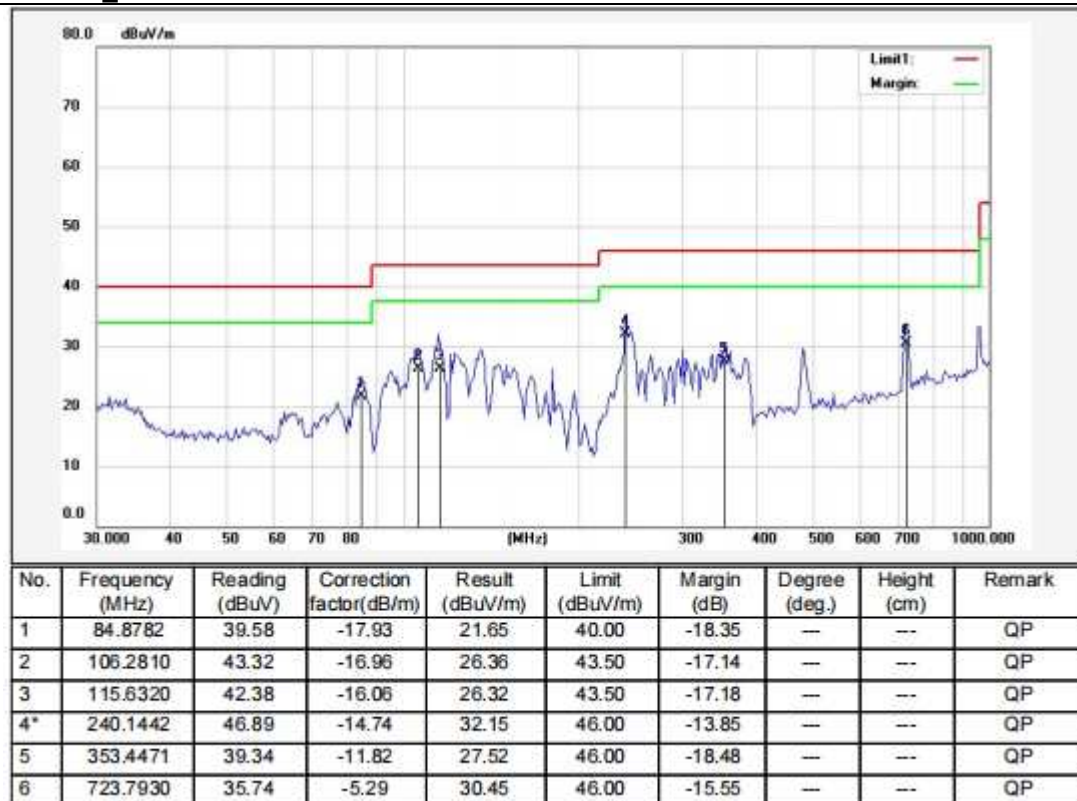
Wi-Fi 5G 11n40_5310MHz Horizontal



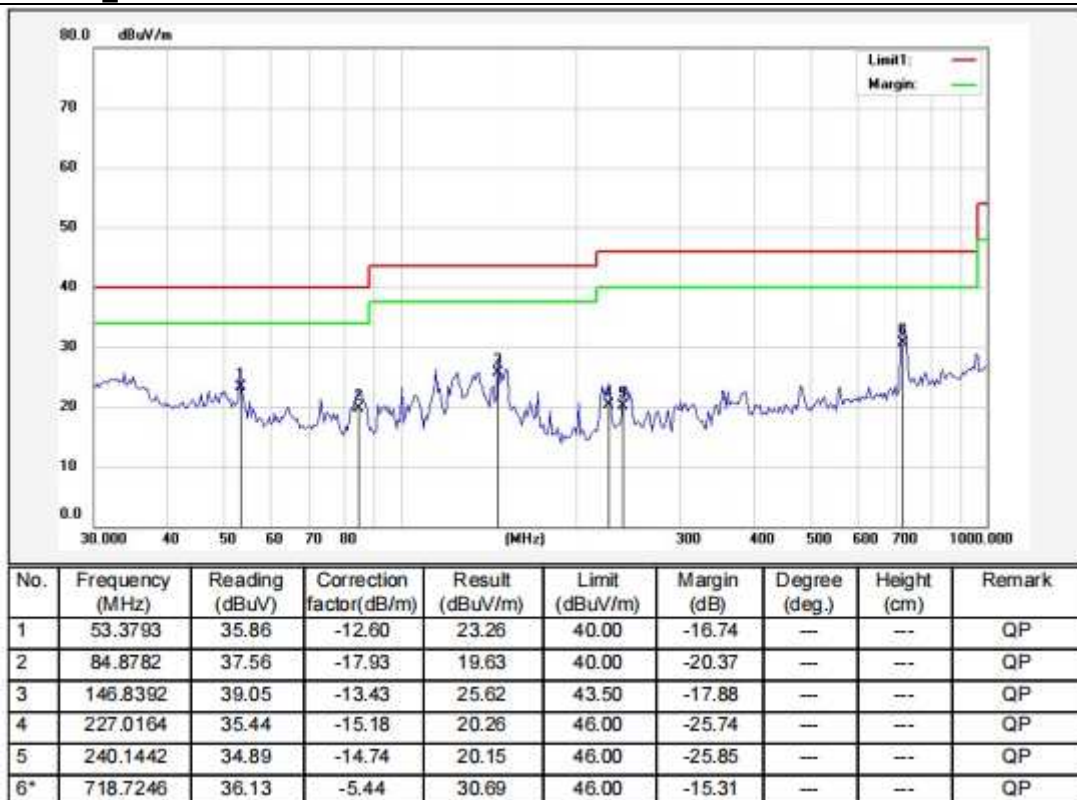
Wi-Fi 5G 11n40_5310MHz Vertical



Wi-Fi 5G 11ac80_5290MHz Horizontal



Wi-Fi 5G 11ac80_5290MHz Vertical

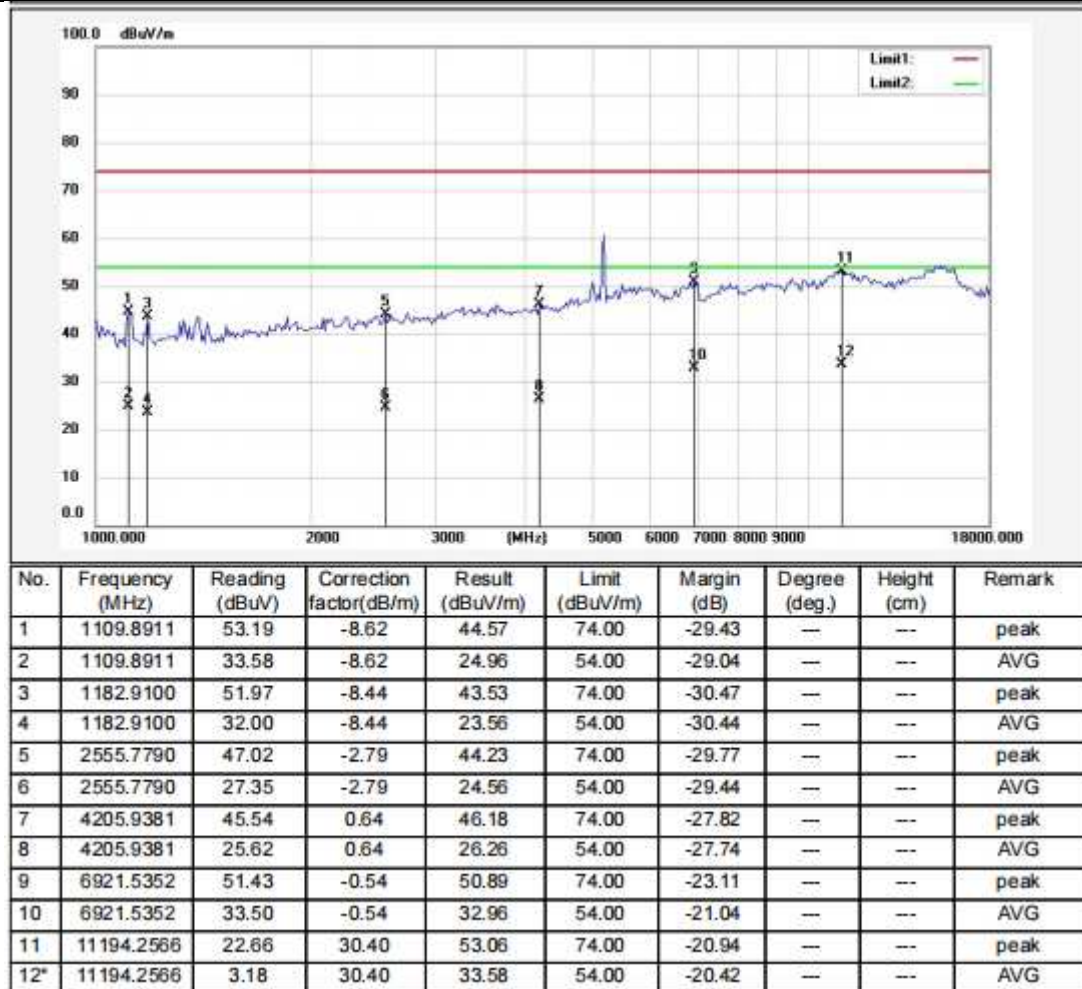


1GHz - 18GHz

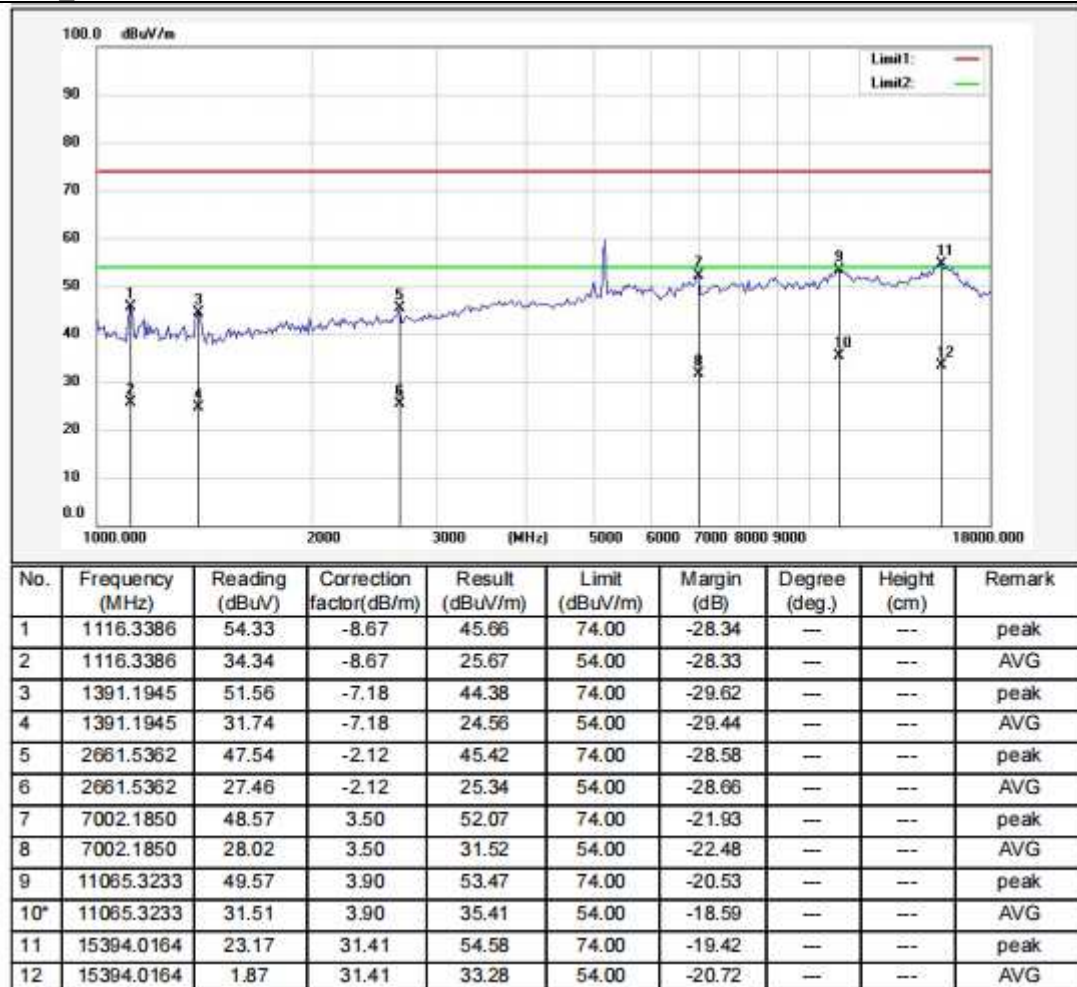
Note: The highest waveform in the figure is Wi-Fi Fundamental.

Wi-Fi 5G 802.11a:

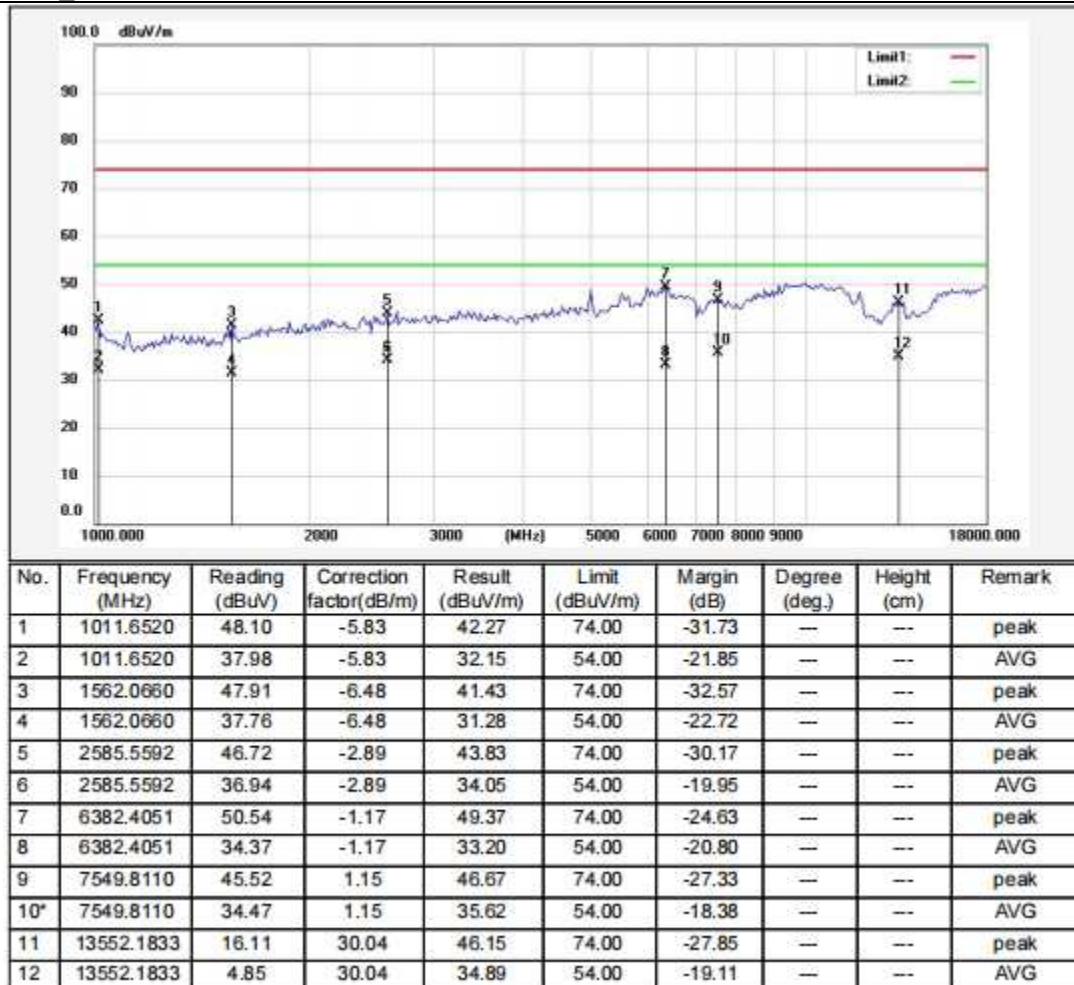
Wi-Fi 5G 11a_5180MHz Horizontal



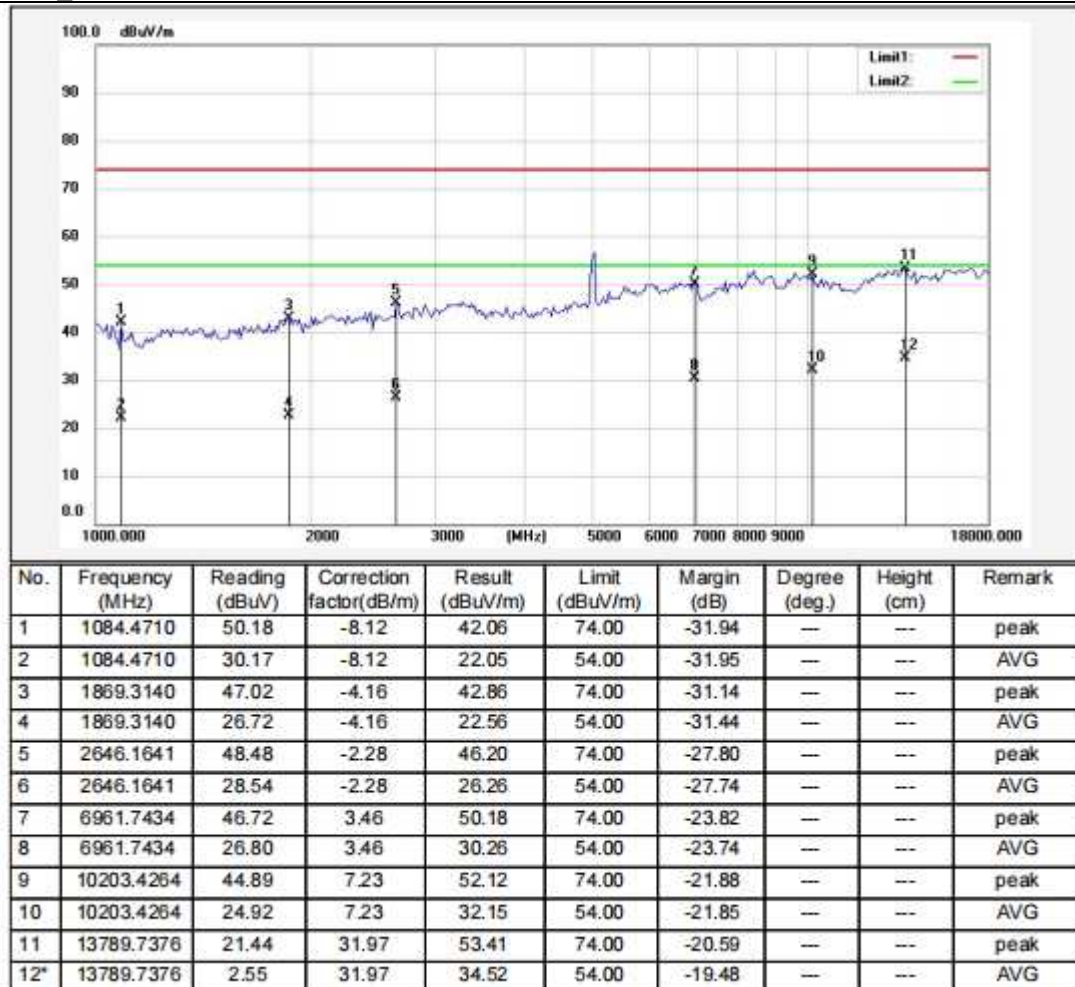
Wi-Fi 5G 11a_5180MHz Vertical



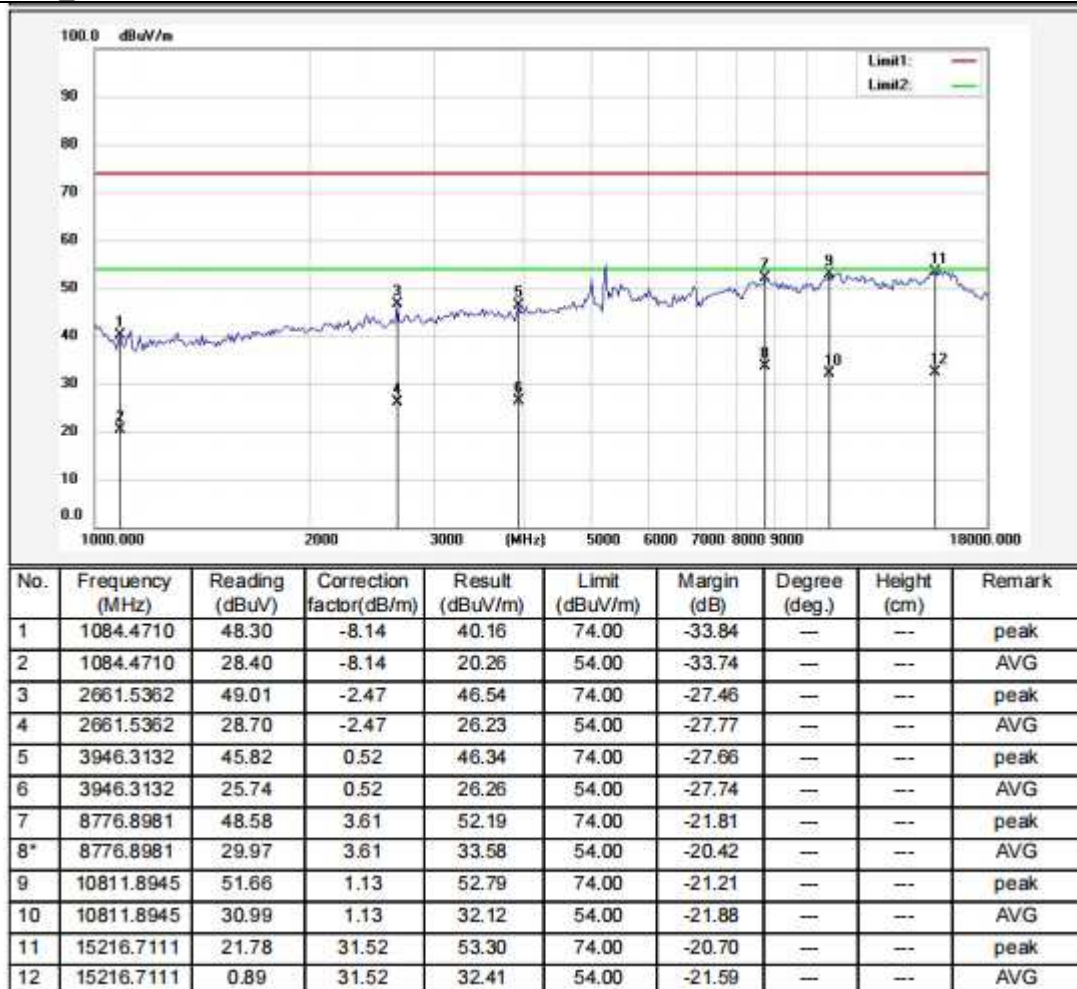
Wi-Fi 5G 11a_5200MHz Horizontal



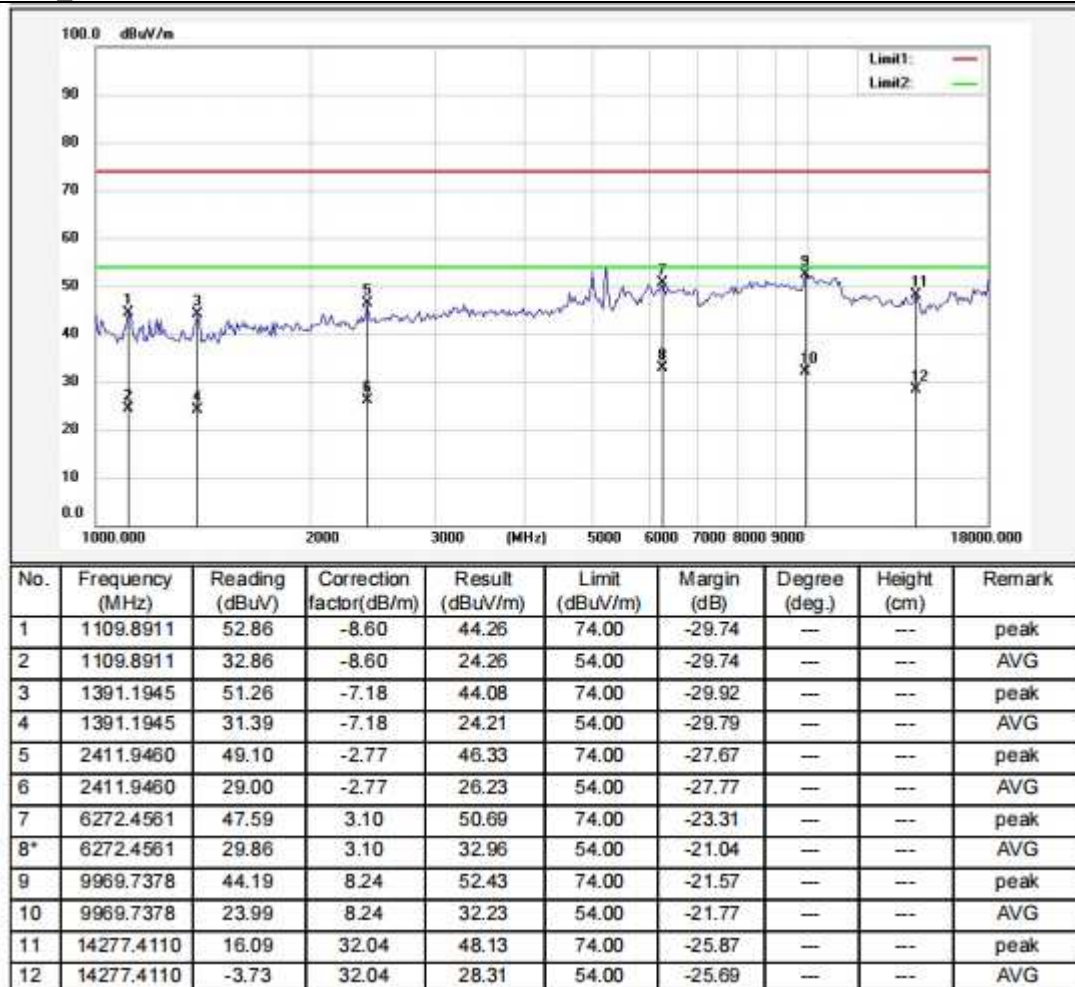
Wi-Fi 5G 11a_5200MHz Vertical



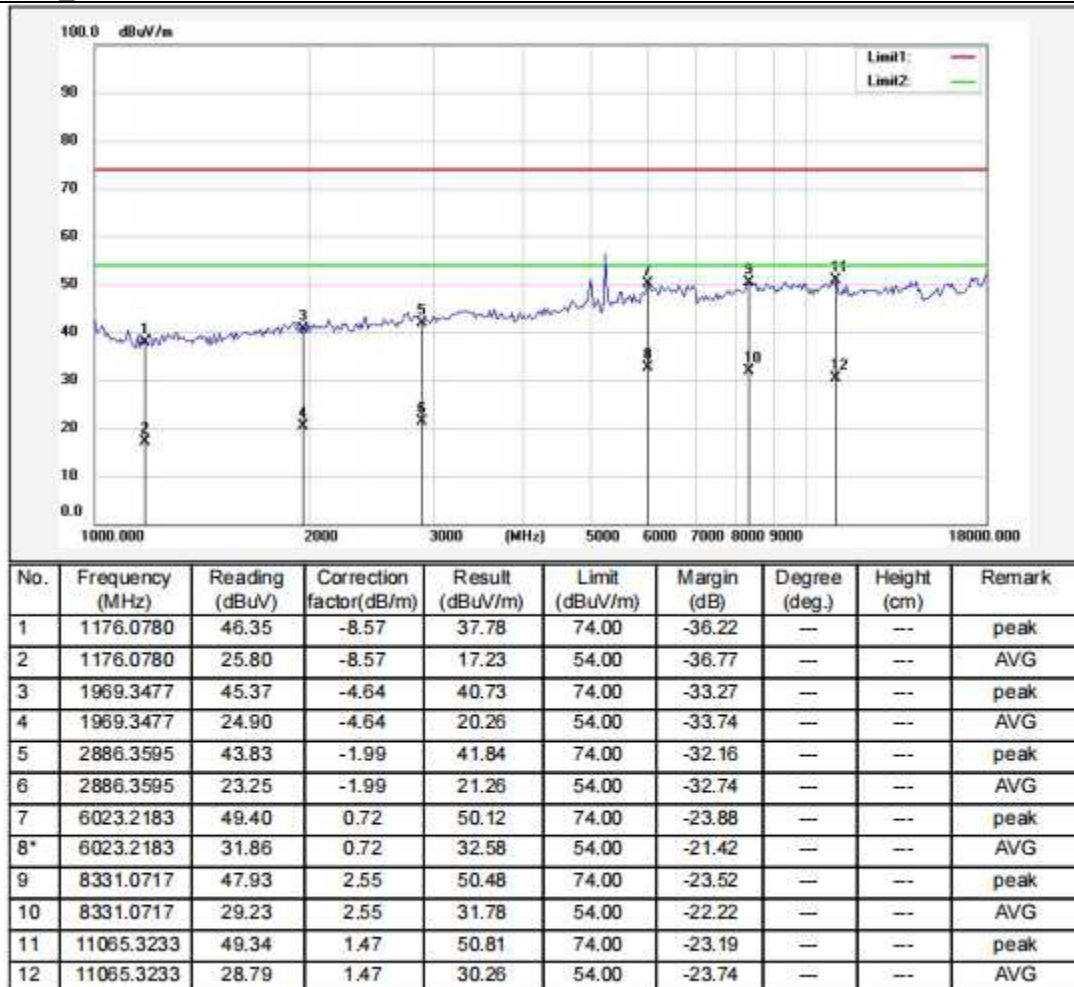
Wi-Fi 5G 11a_5240MHz Horizontal



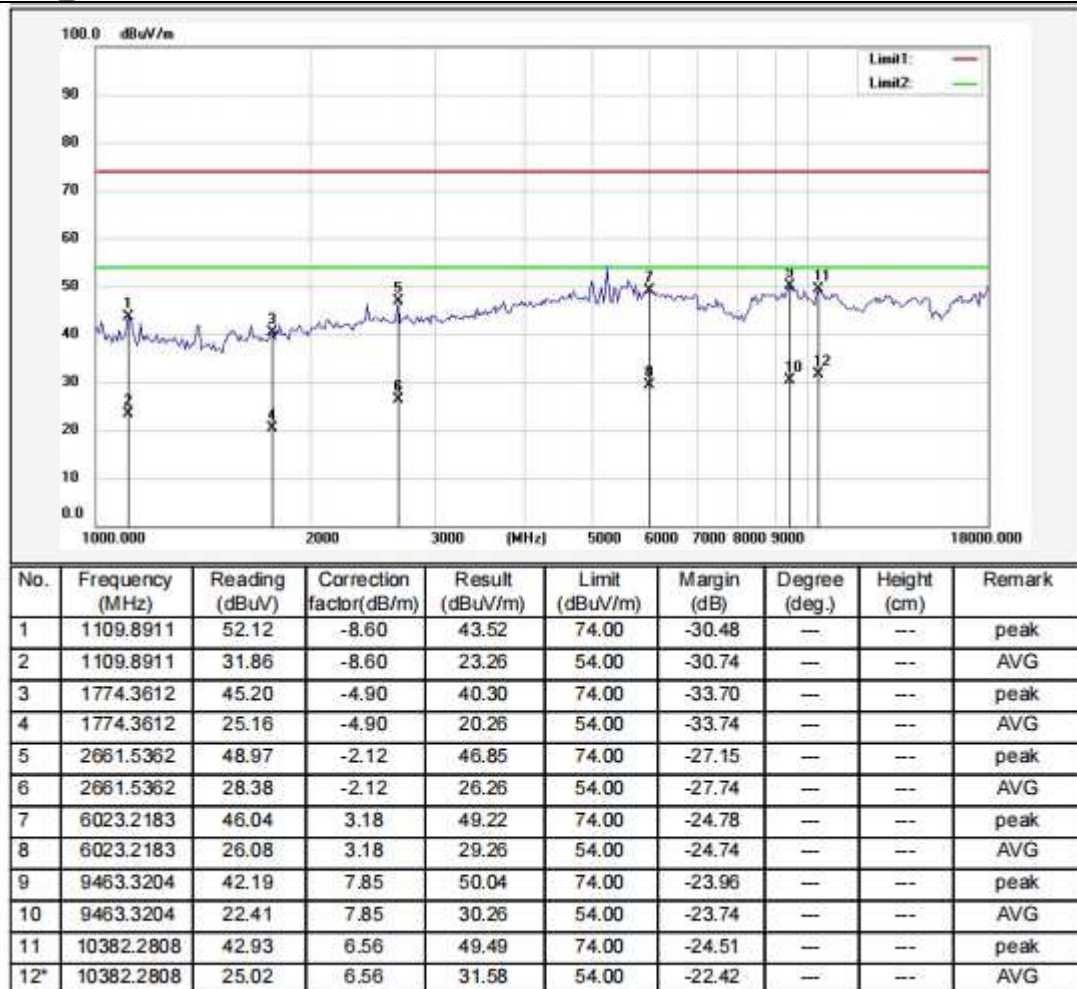
Wi-Fi 5G 11a_5240MHz Vertical



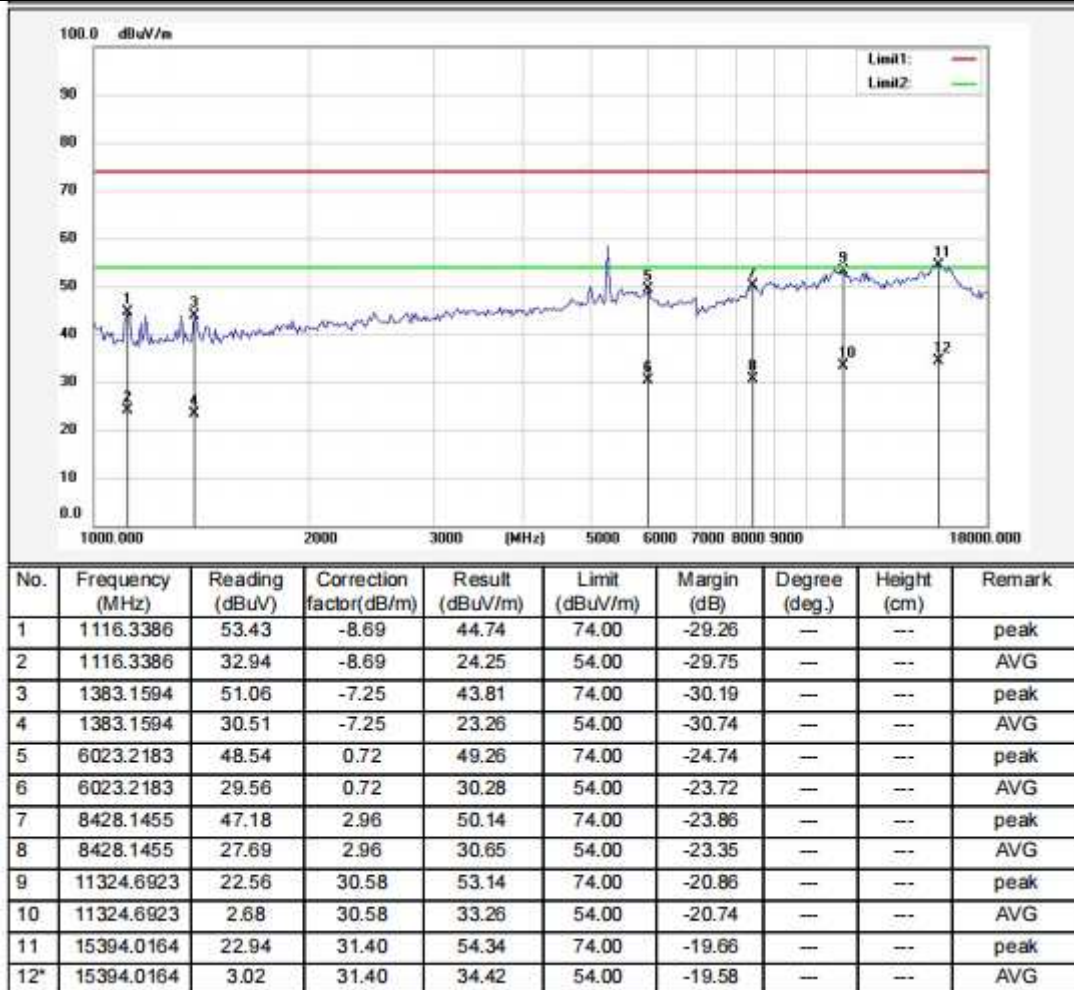
Wi-Fi 5G 11a_5260MHz Horizontal



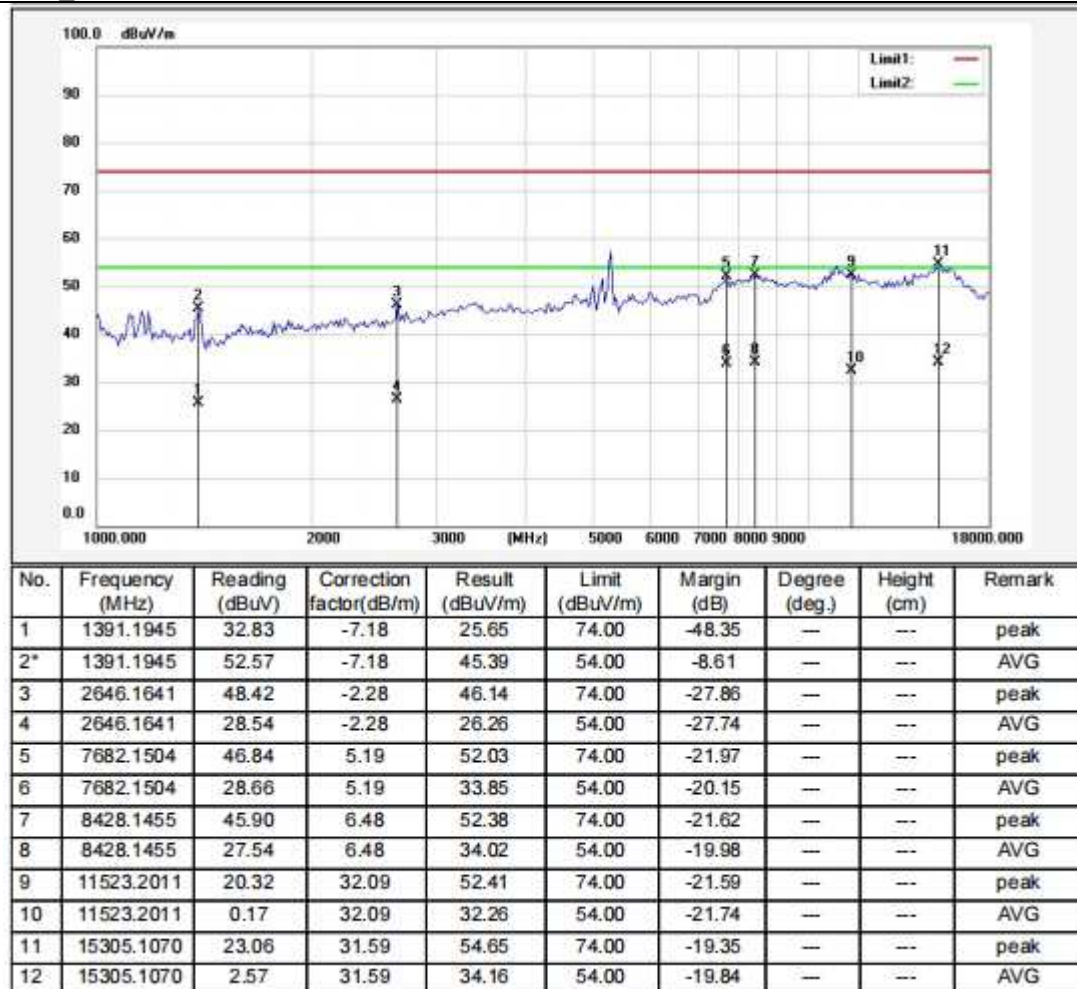
Wi-Fi 5G 11a_5260MHz Vertical



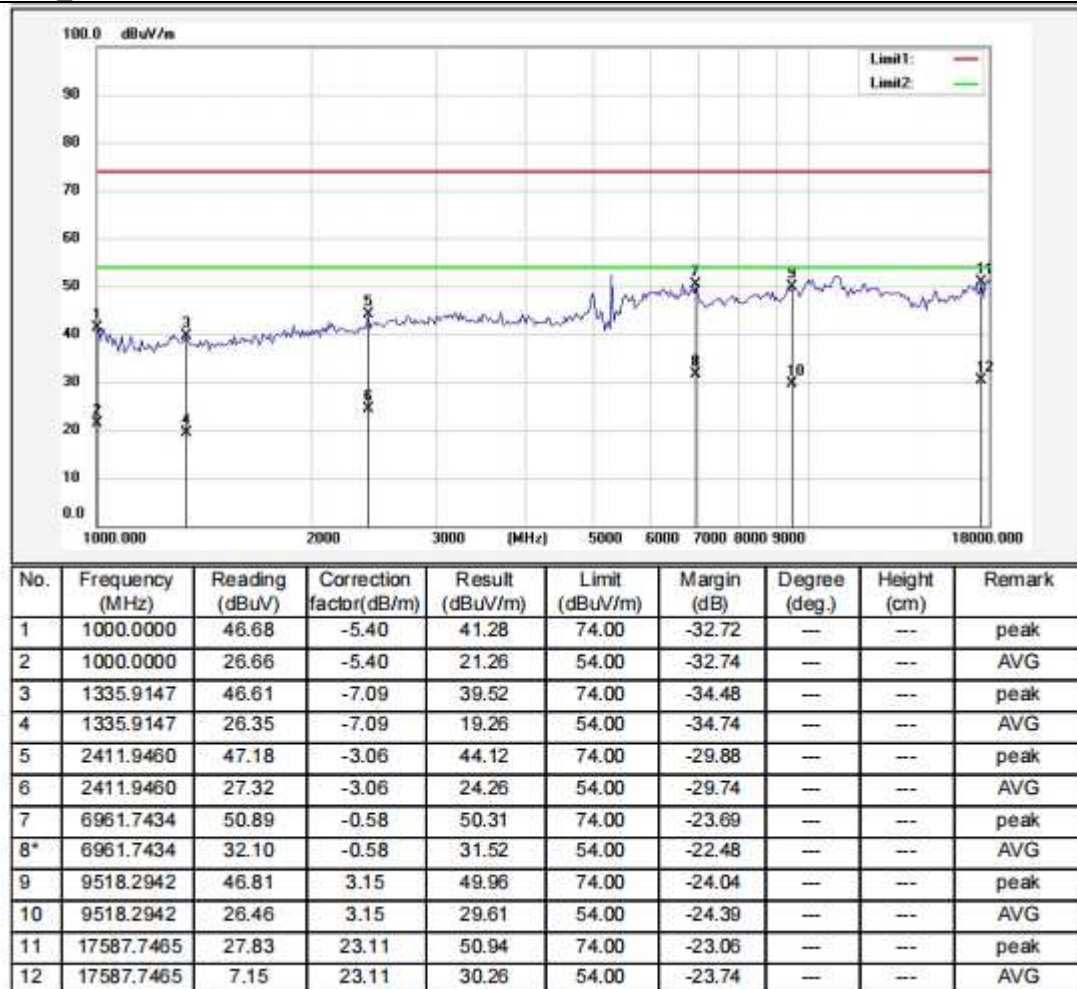
Wi-Fi 5G 11a_5300MHz Horizontal



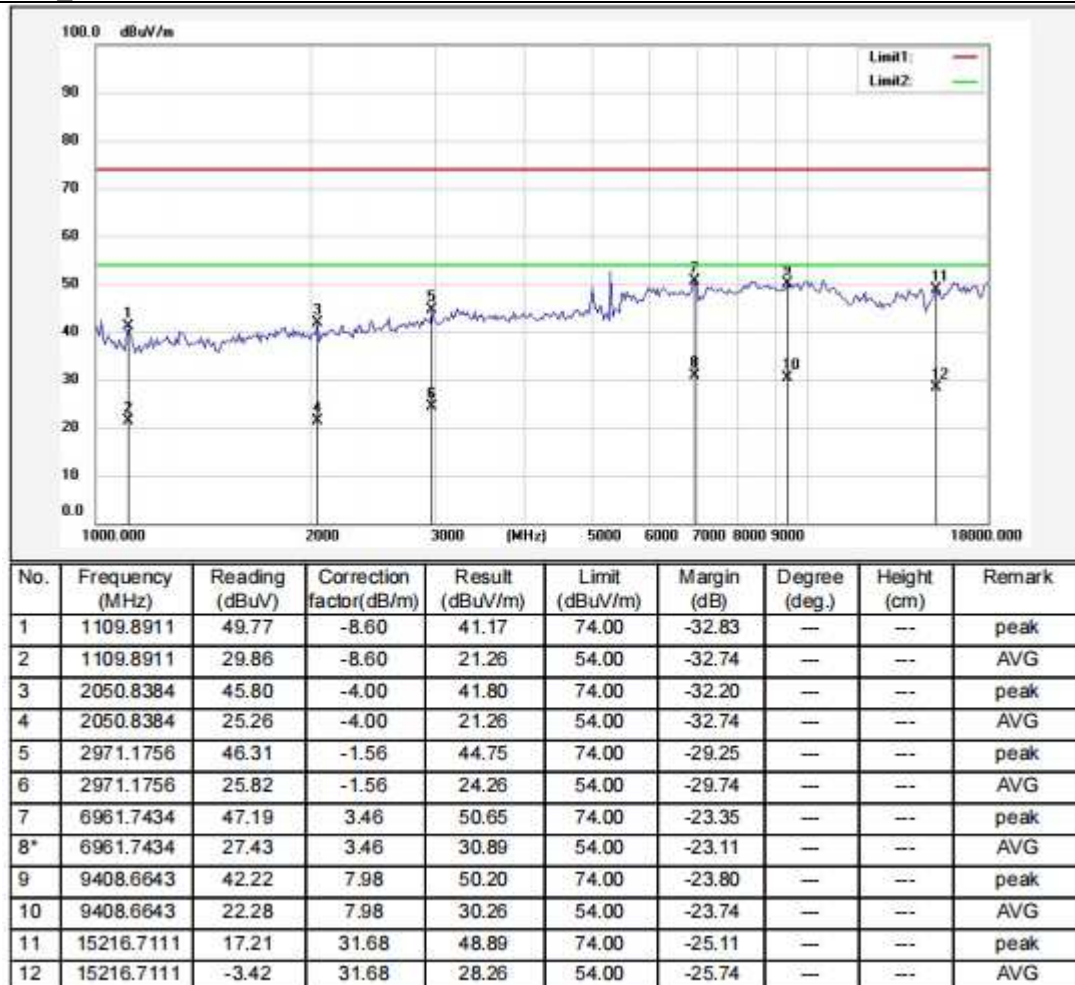
Wi-Fi 5G 11a_5300MHz Vertical



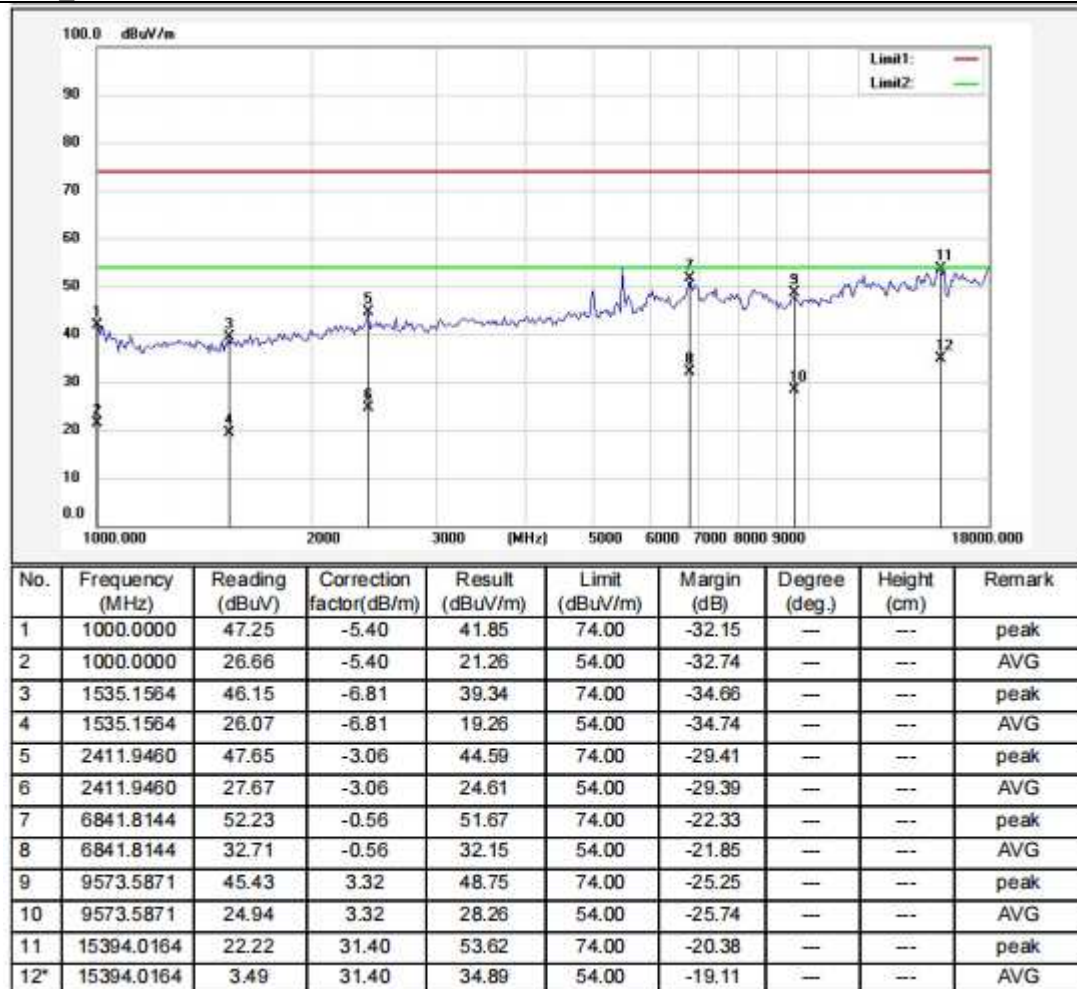
Wi-Fi 5G 11a_5320MHz Horizontal



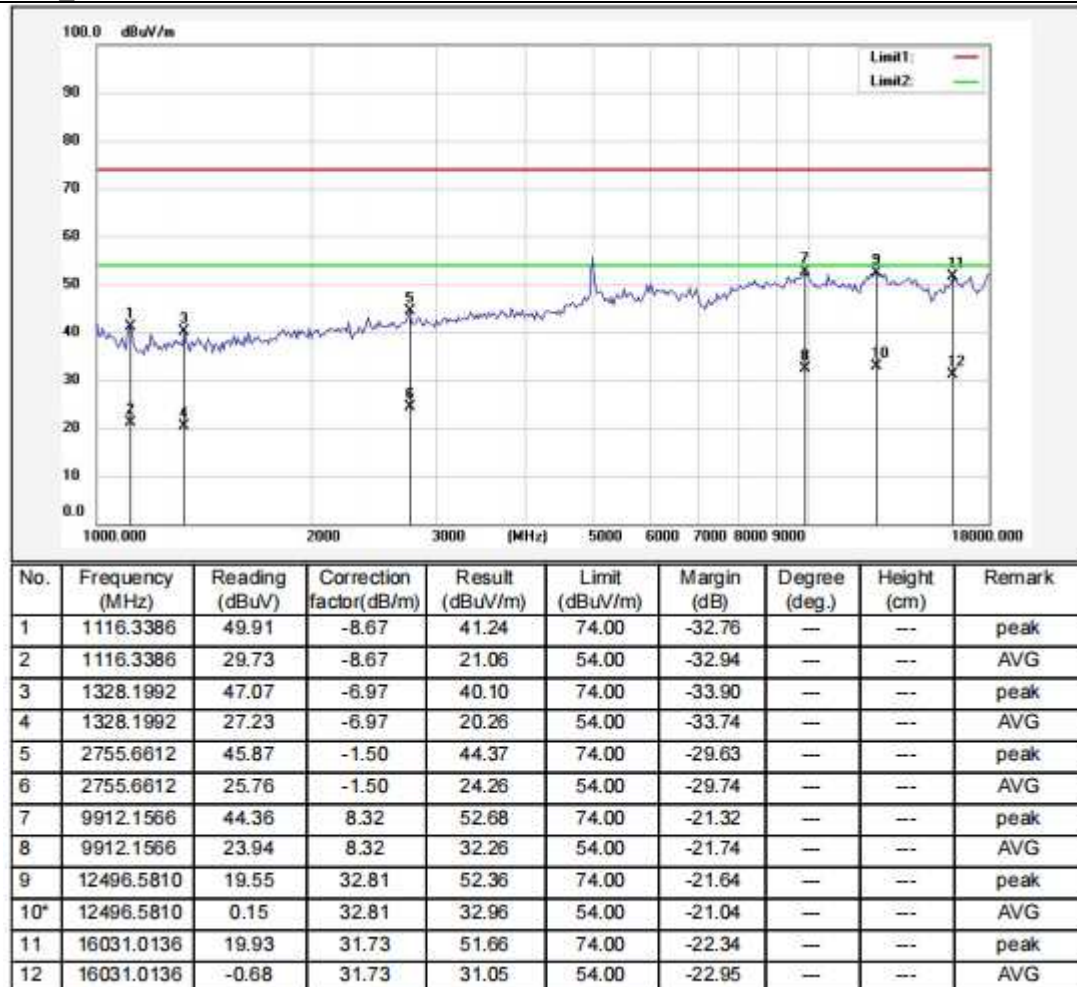
Wi-Fi 5G 11a_5320MHz Vertical



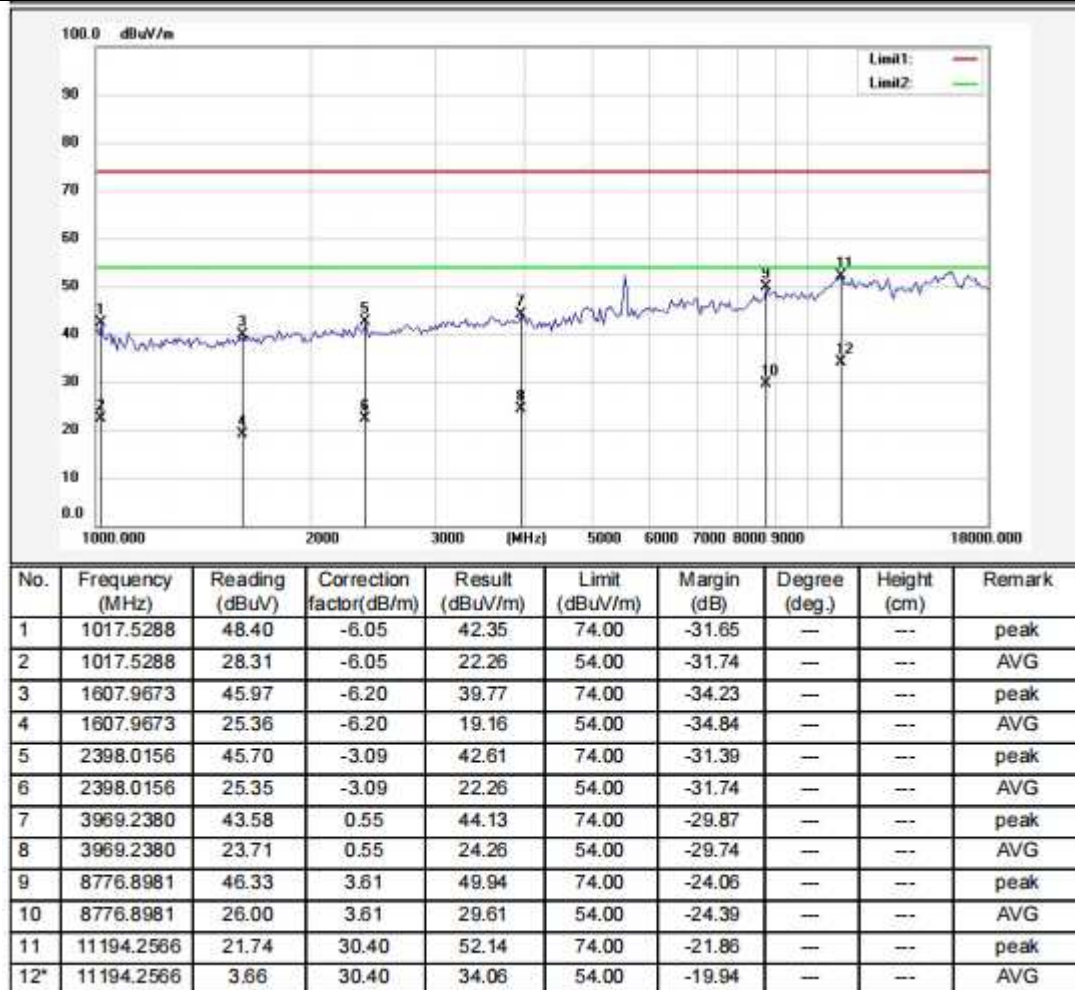
Wi-Fi 5G 11a_5500MHz Horizontal



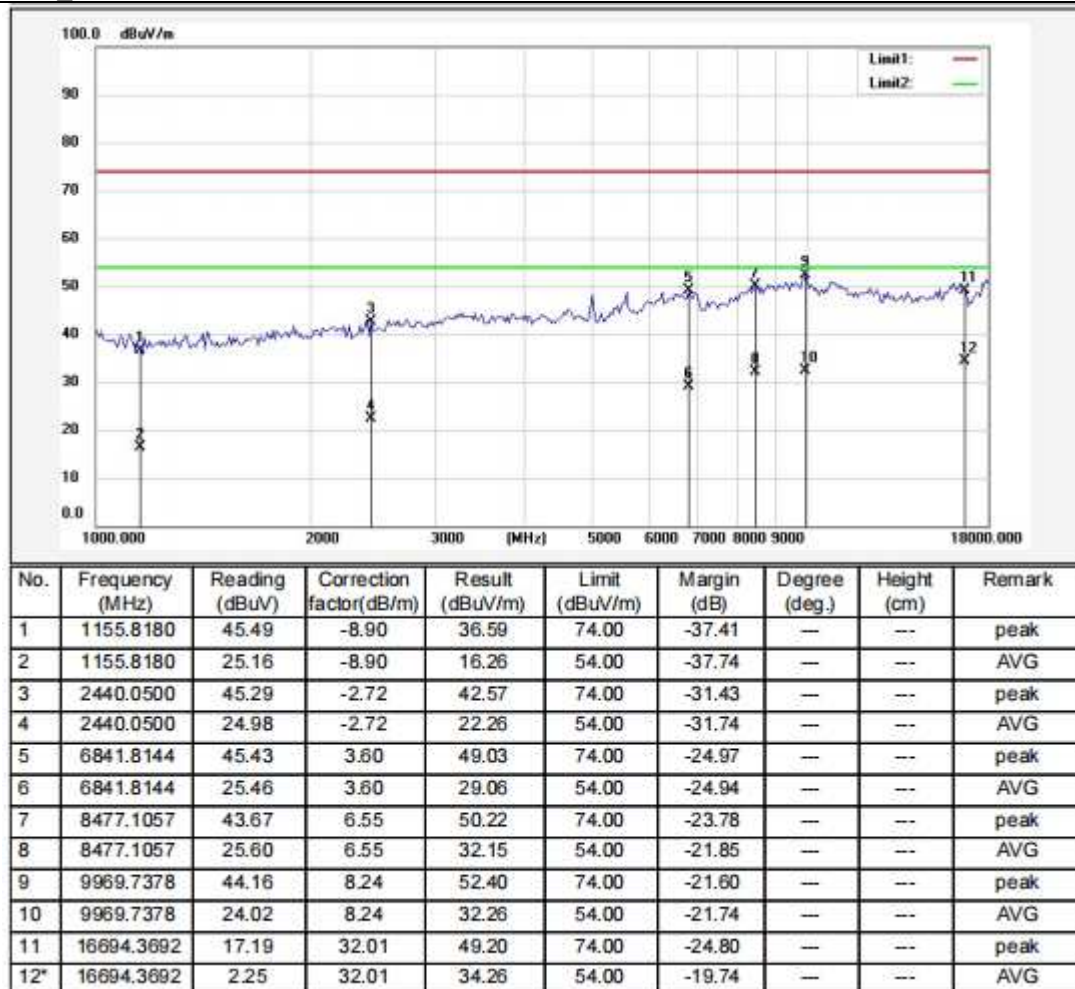
Wi-Fi 5G 11a_5500MHz Vertical



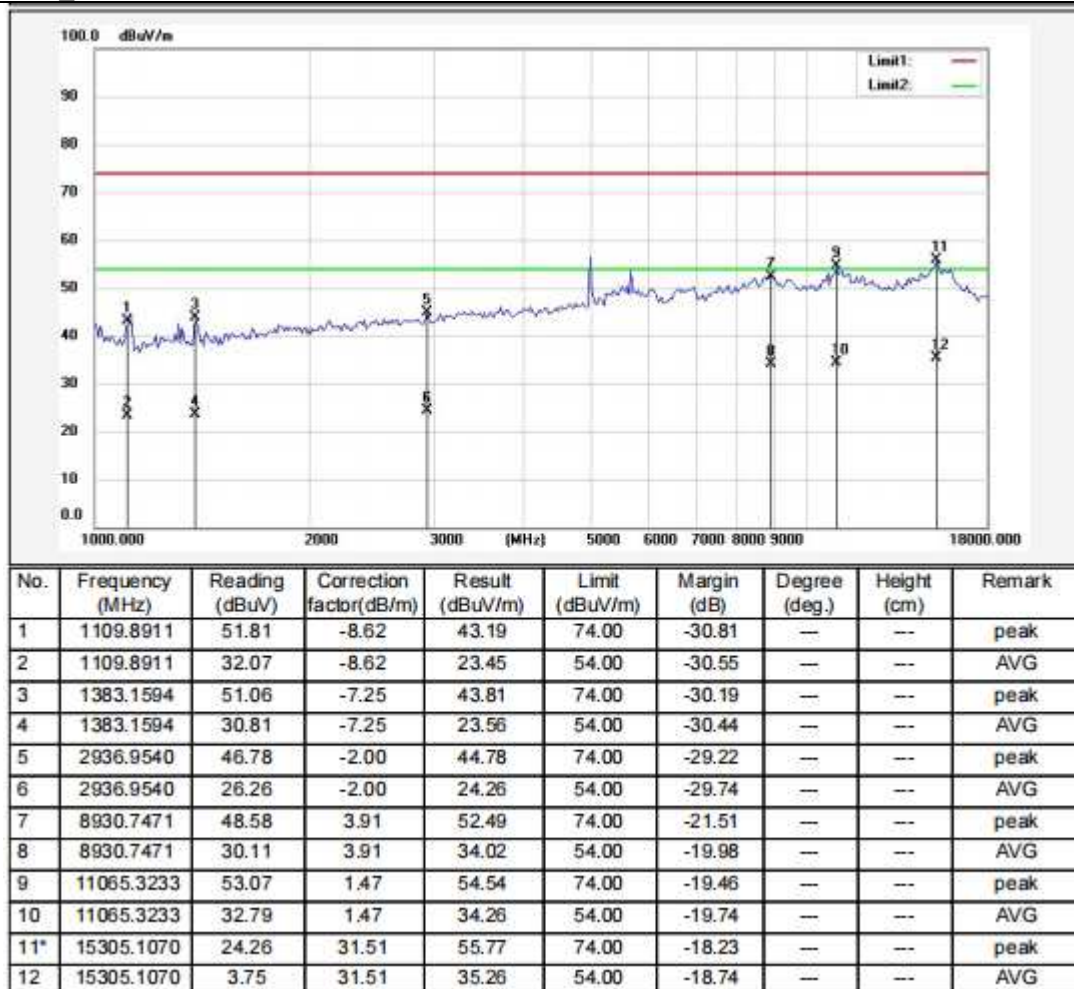
Wi-Fi 5G 11a_5580MHz Horizontal



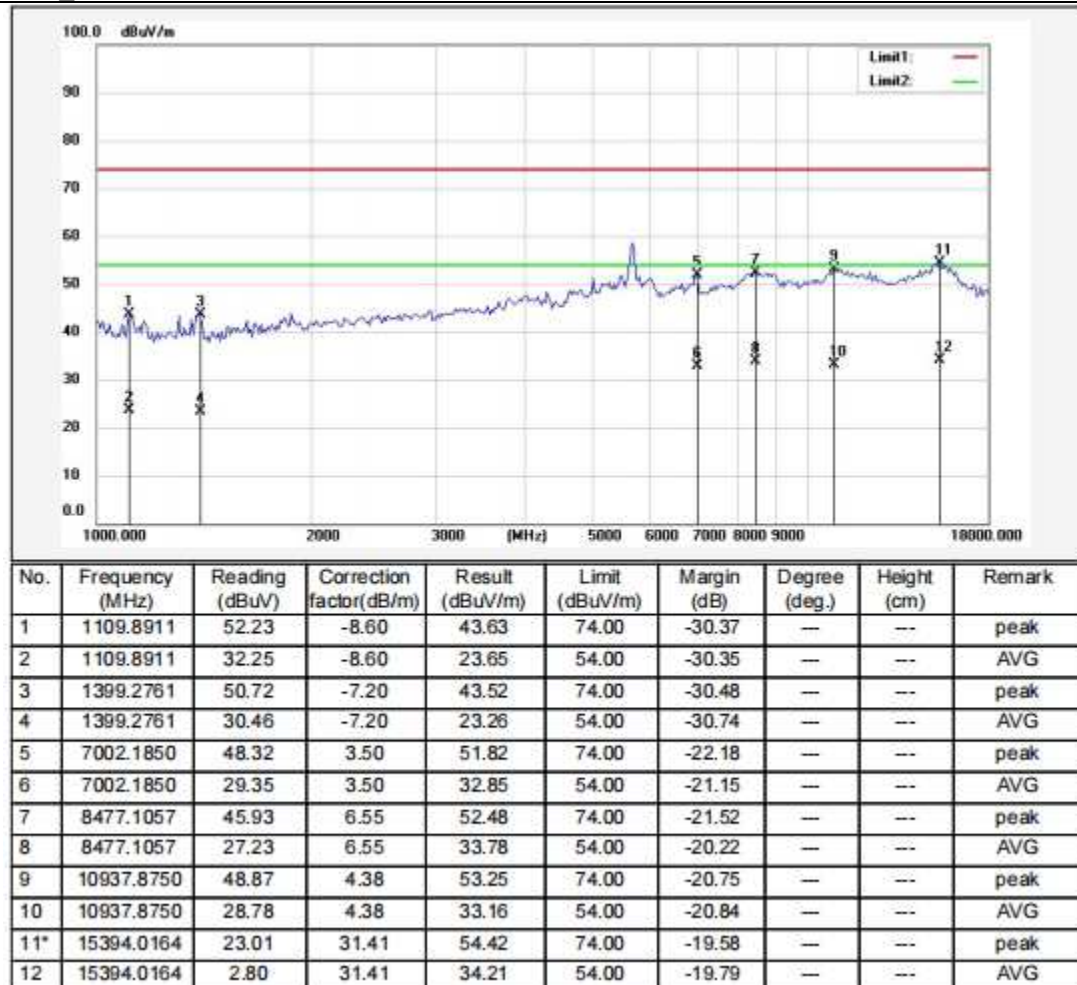
Wi-Fi 5G 11a_5580MHz Vertical



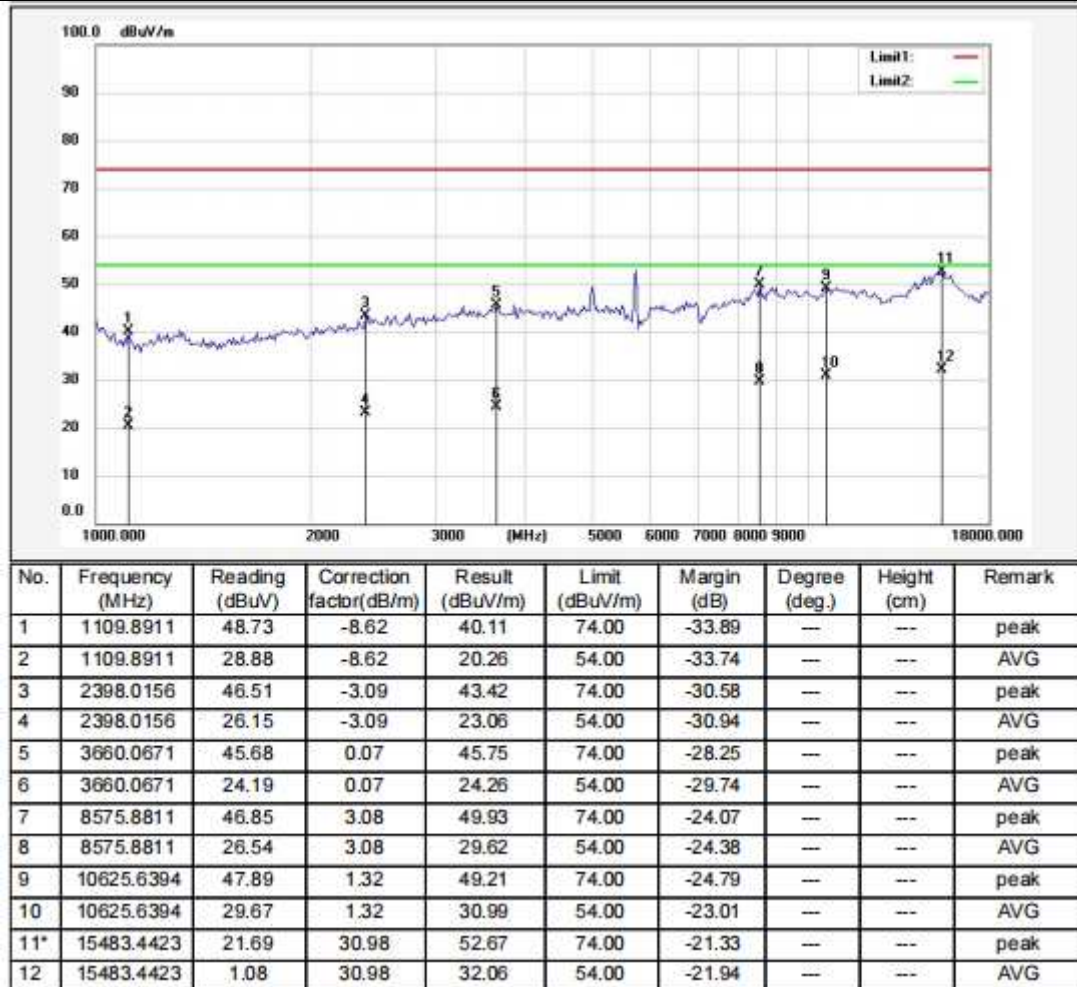
Wi-Fi 5G 11a_5700MHz Horizontal



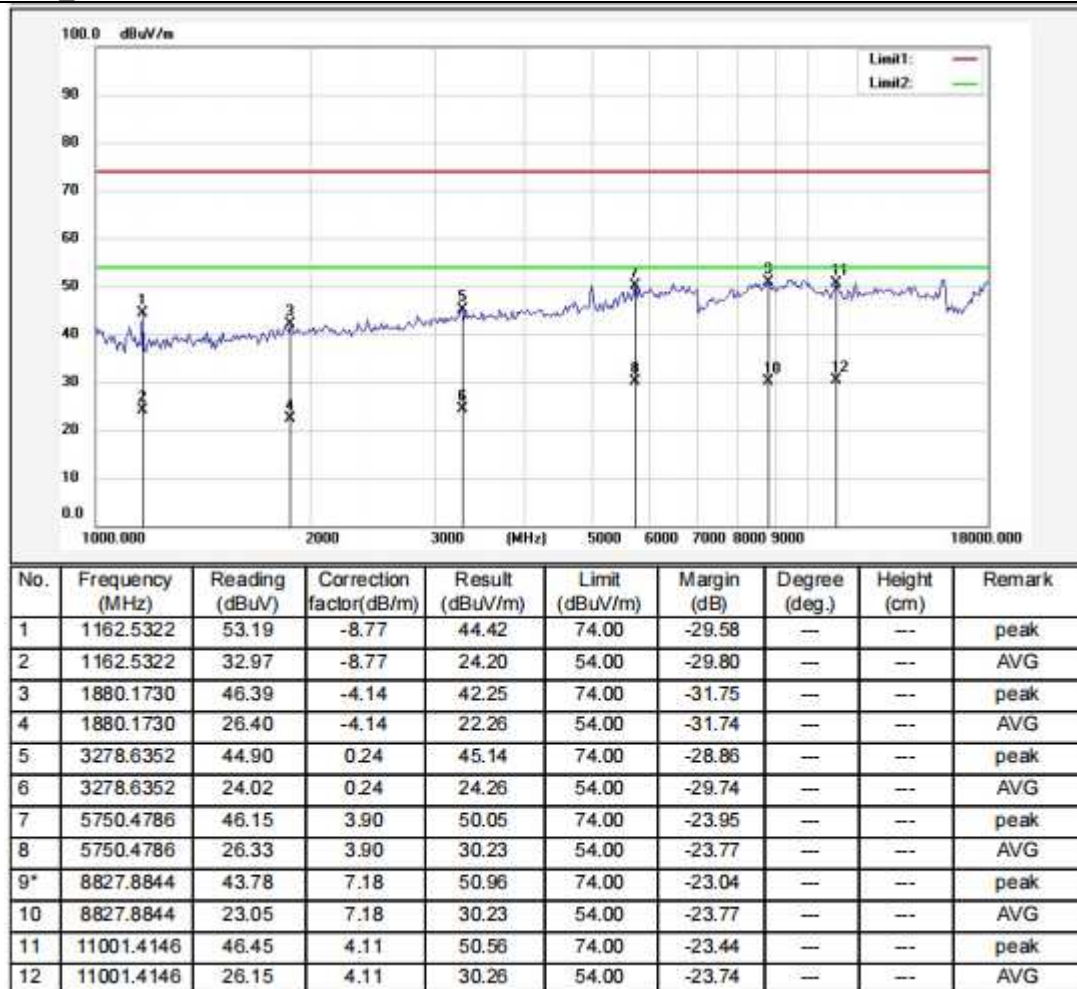
Wi-Fi 5G 11a_5700MHz Vertical



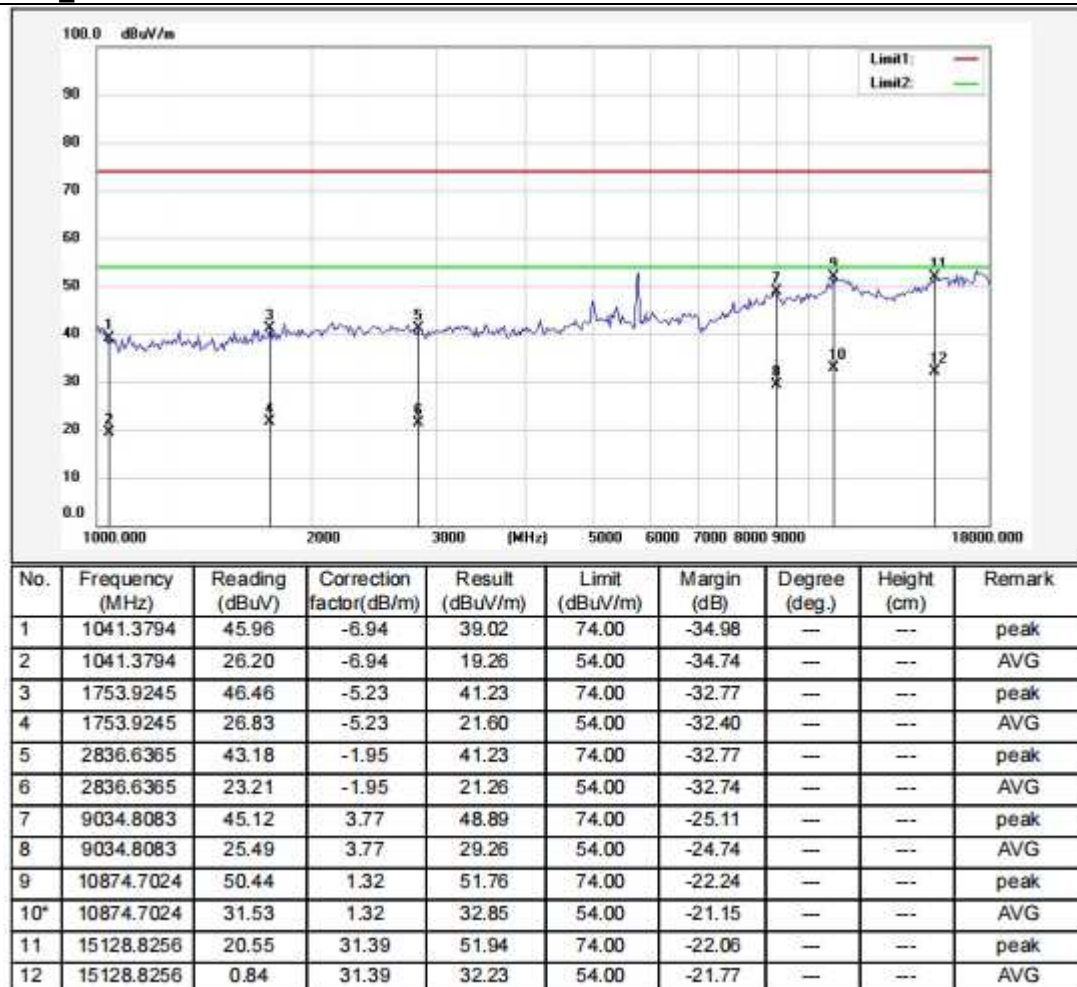
Wi-Fi 5G 11a_5745MHz Horizontal



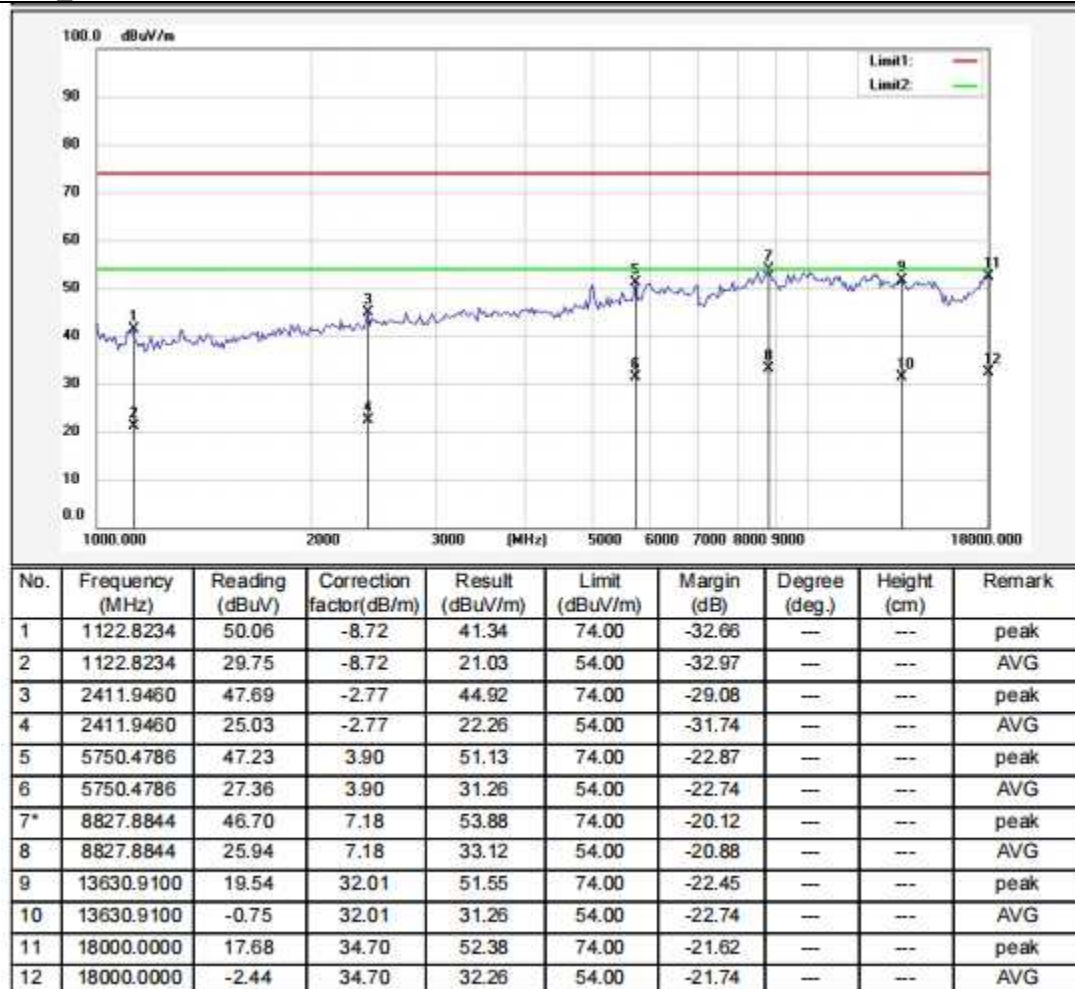
Wi-Fi 5G 11a_5745MHz Vertical



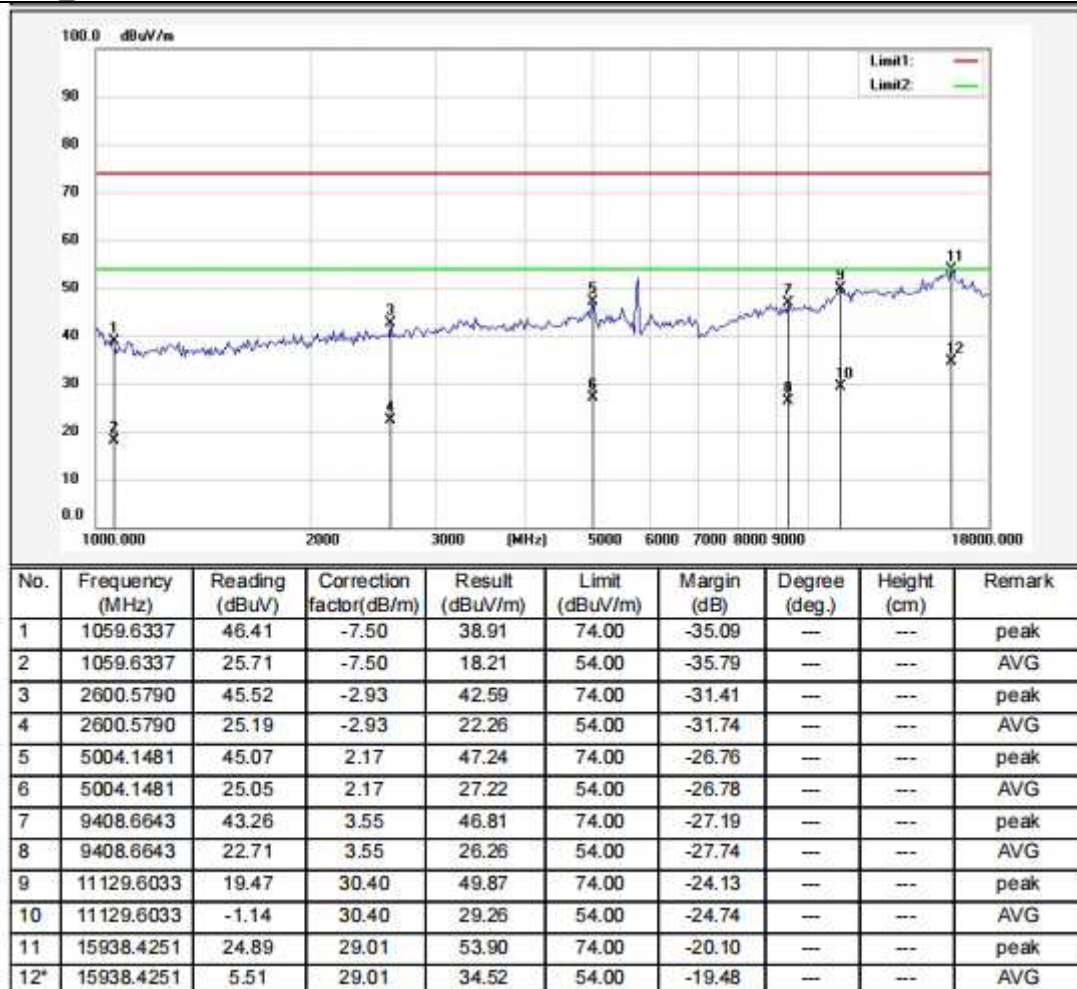
Wi-Fi 5G 11a_5785MHz Horizontal



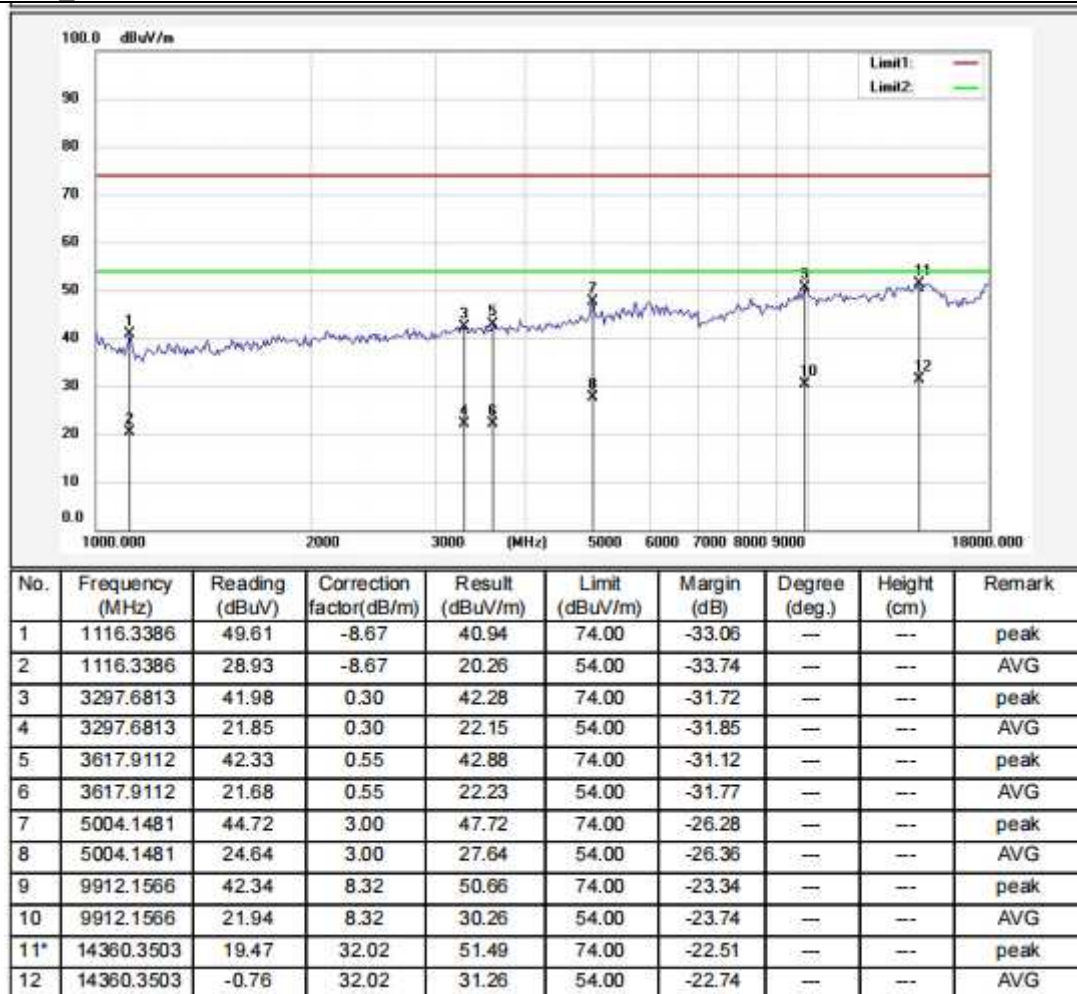
Wi-Fi 5G 11a_5785MHz Vertical



Wi-Fi 5G 11a_5825MHz Horizontal

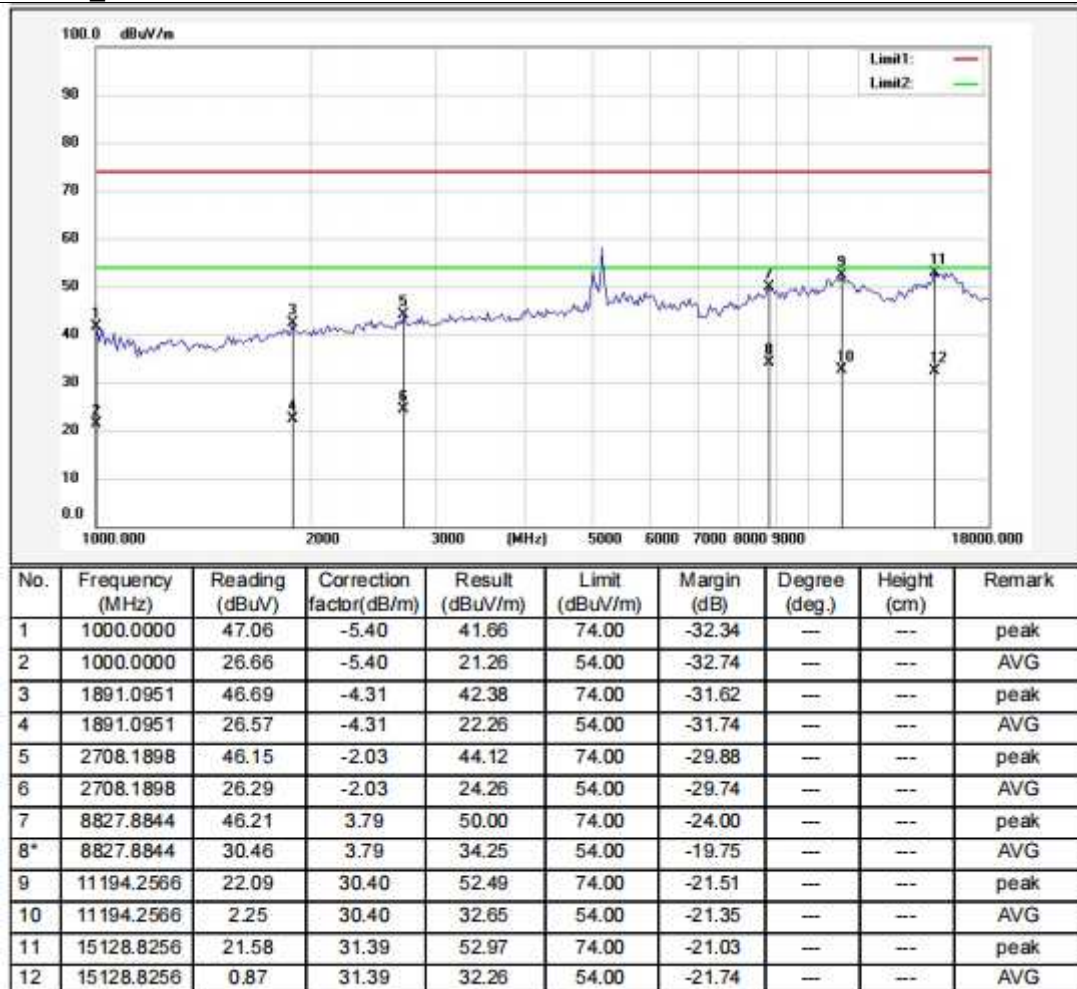


Wi-Fi 5G 11a_5825MHz Vertical

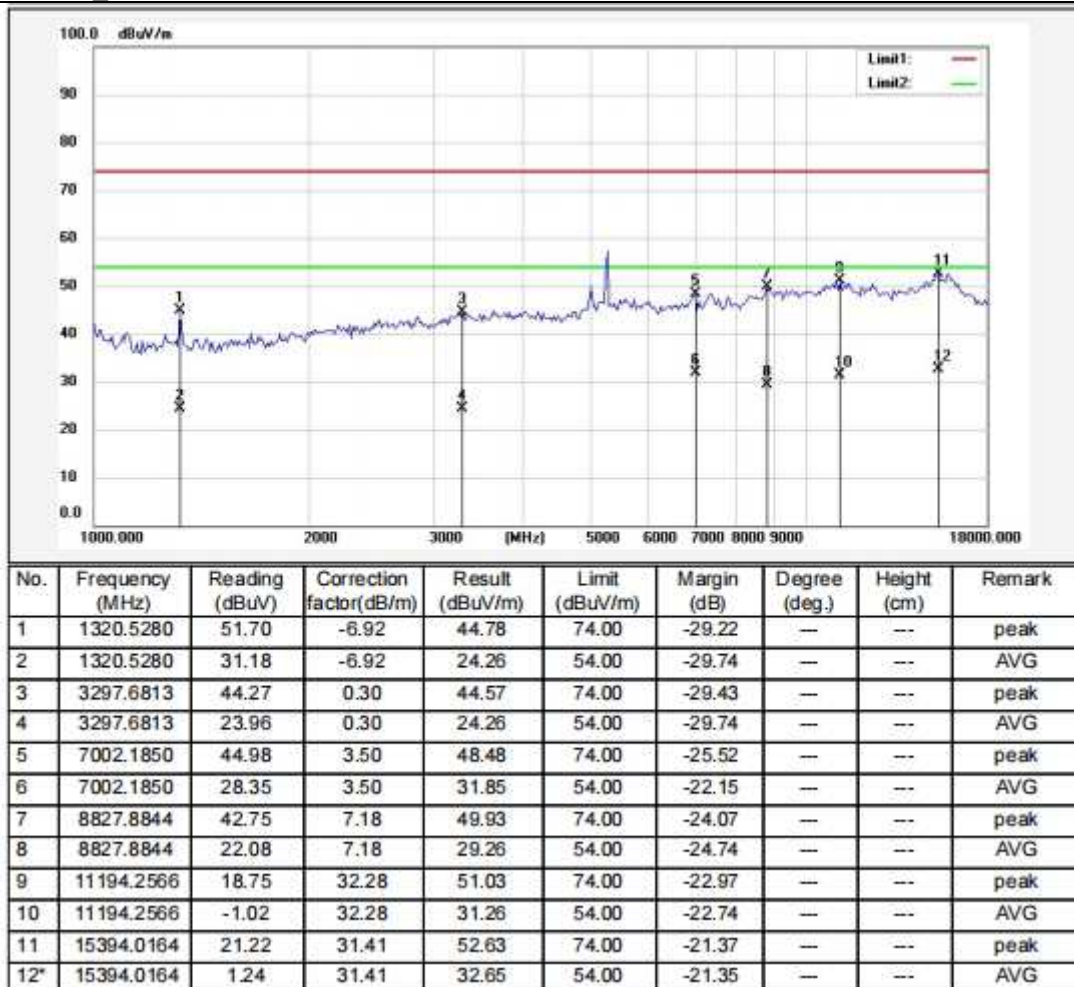


Wi-Fi 5G 802.11n20:

Wi-Fi 5G 11n20_5180MHz Horizontal



Wi-Fi 5G 11n20_5180MHz Vertical



Wi-Fi 5G 11n20_5320MHz Horizontal

