

A.6 UNDESIRABLE EMISSION LIMITS: BAND EDGE / SPURIOUS EMISSION (CONDUCTED)

Test Date	2021/12/29 ~ 2022/01/10	Temp./Hum.	16~20°C/62~64%
Cable Loss	1.90dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		
Simultaneous Factor $10 \log(N_{ANT})$ (Note: where N_{ANT} is the number of outputs)			802.11a: 0dB 802.11n/ac/ax: 3dB

A.6.1 Band Edge Result

● OFDM Modulation

Mode	U-NII Band	Centre Frequency (MHz)	Band Edge (dBm)		10log (1/X)	Antenna Gain (dBi)	Band Edge (e.i.r.p.) (dBm)	
			Peak	Average			Peak	Average
802.11a	5	5955	-56.170	-66.317	N/A	1.3	-54.870	-65.017
	8	7115	-23.560	-34.292		3.4	-20.160	-30.892
802.11n-HT20	5	5955	-54.330	-64.434	N/A	1.3	-53.030	-63.134
	8	7115	-22.680	-33.064		3.4	-19.280	-29.664
802.11n-HT40	5	5965	-50.860	61.173	N/A	1.3	-49.560	62.473
	8	7085	-54.230	-63.743		3.4	-50.830	-60.343
802.11ac-VHT80	5	5985	-48.490	-58.333	N/A	1.3	-47.190	-57.033
	8	7025	-55.800	-65.723		3.4	-52.400	-62.323
802.11ac-VHT160	5	6025	-42.750	-53.398	N/A	1.3	-41.450	-52.098
	8	6985	-41.750	-52.080		3.4	-38.350	-48.680
802.11ax-HE20	5	5955	-54.230	-64.265	N/A	1.3	-52.930	-62.965
	8	7115	-21.970	-33.081		3.4	-18.570	-29.681
802.11ax-HE40	5	5965	-50.690	-61.336	N/A	1.3	-49.390	-60.036
	8	7085	-54.320	-63.989		3.4	-50.920	-60.589
802.11ax-HE80	5	5985	-47.640	-59.015	N/A	1.3	-46.340	-57.715
	8	7025	-55.510	-65.449		3.4	-52.110	-62.049
802.11ax-HE160	5	6025	-41.580	-53.433	N/A	1.3	-40.280	-52.133
	8	6985	-40.820	-52.597		3.4	-37.420	-49.197

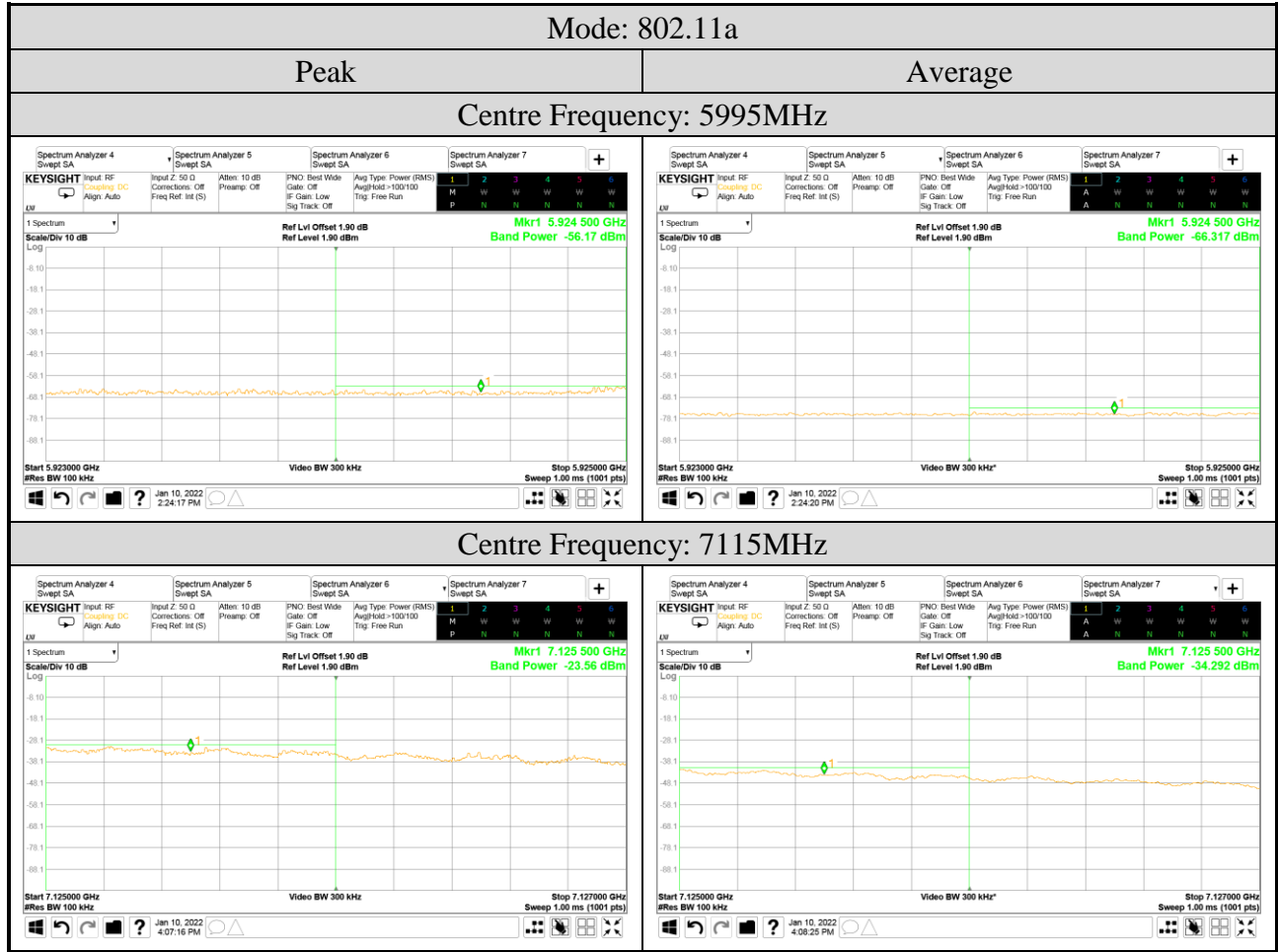
Note: All results have been included cable loss and Simultaneous Factor.

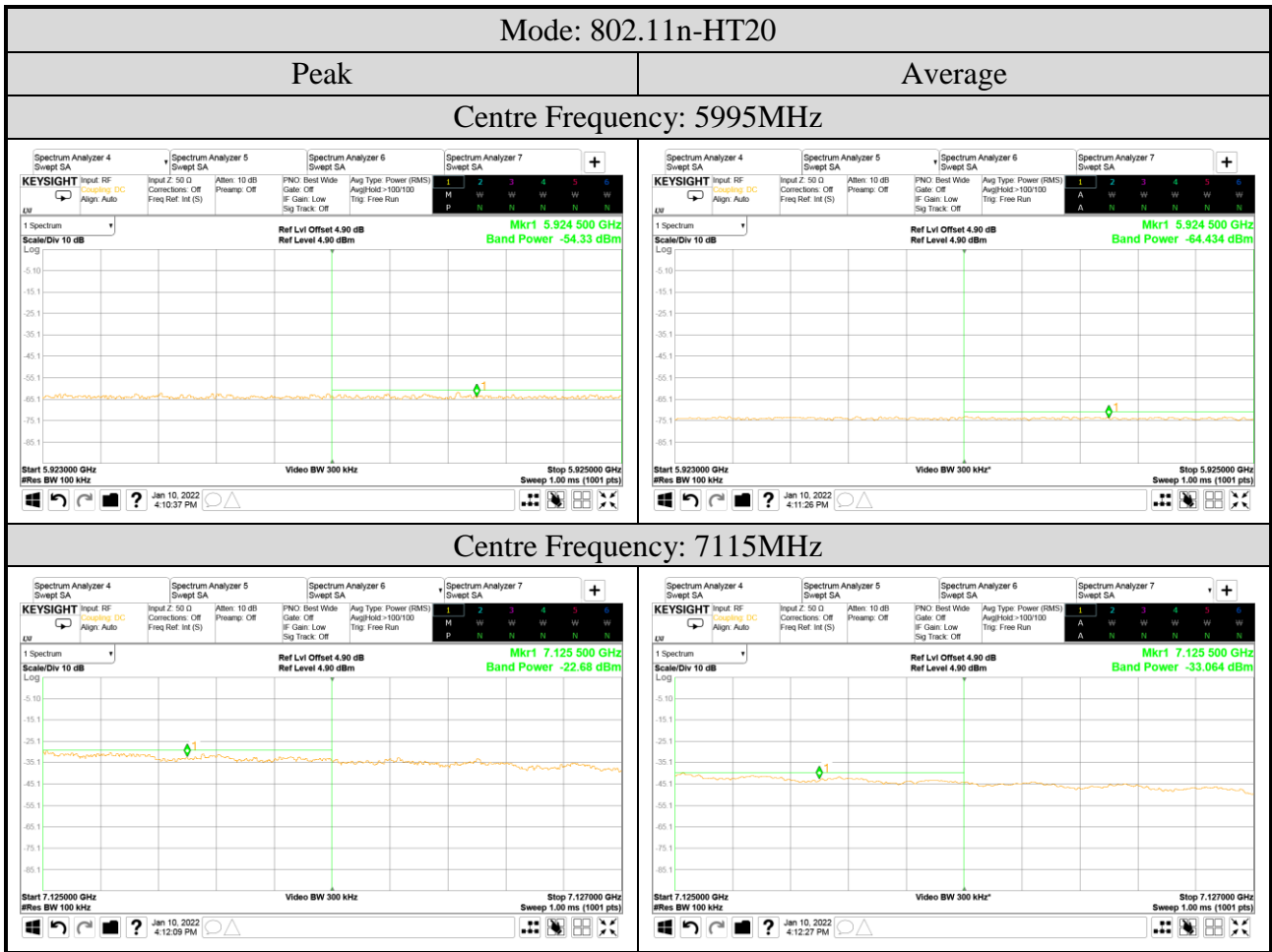
● OFDMA Modulation

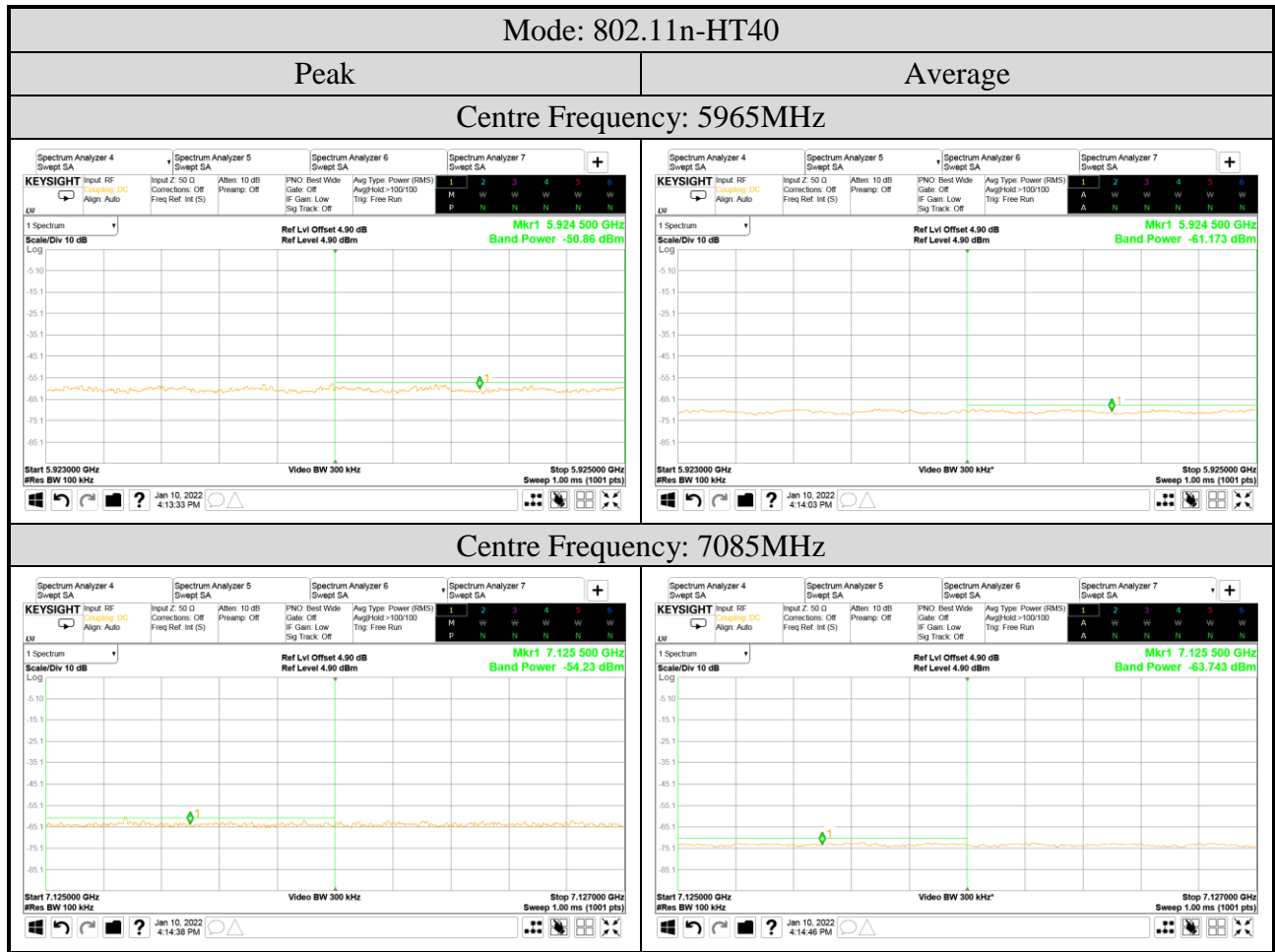
Tones	RU Index	Mode	U-NII Band	Centre Frequency (MHz)	Band Edge (dBm)		10log (1/X)	Antenna Gain (dBi)	Band Edge (e.i.r.p.) (dBm)	
					Peak	Average			Peak	Average
26	0	802.11ax-HE40	5	5965	-59.780	-69.615	N/A	1.3	-58.480	-68.315
	17	802.11ax-HE160	8	6985	-62.050	-71.618		3.4	-58.650	-68.218
52	37	802.11ax-HE20	5	5955	-59.420	-68.881	N/A	1.3	-58.120	-67.581
	44	802.11ax-HE40	8	7085	-60.080	-69.848		3.4	-56.680	-66.448
106	53	802.11ax-HE20	5	5955	-57.940	-68.152	N/A	1.3	-56.640	-66.852
	56	802.11ax-HE40	8	7085	-58.650	-68.557		3.4	-55.250	-65.157
242	61	802.11ax-HE80	5	5985	-54.850	-63.957	N/A	1.3	-53.550	-62.657
	62	802.11ax-HE40	8	7085	-54.140	-64.780		3.4	-50.740	-61.380
484	65	802.11ax-HE40	5	5965	-49.770	-66.045	N/A	1.3	-48.470	-64.745
	S66	802.11ax-HE160	8	6985	-56.430	-59.682		3.4	-53.030	-56.282
996	67	802.11ax-HE160	5	6025	-45.020	-65.579	N/A	1.3	-43.720	-64.279
	S67	802.11ax-HE160	8	6985	-55.200	-57.695		3.4	-62.180	-71.073

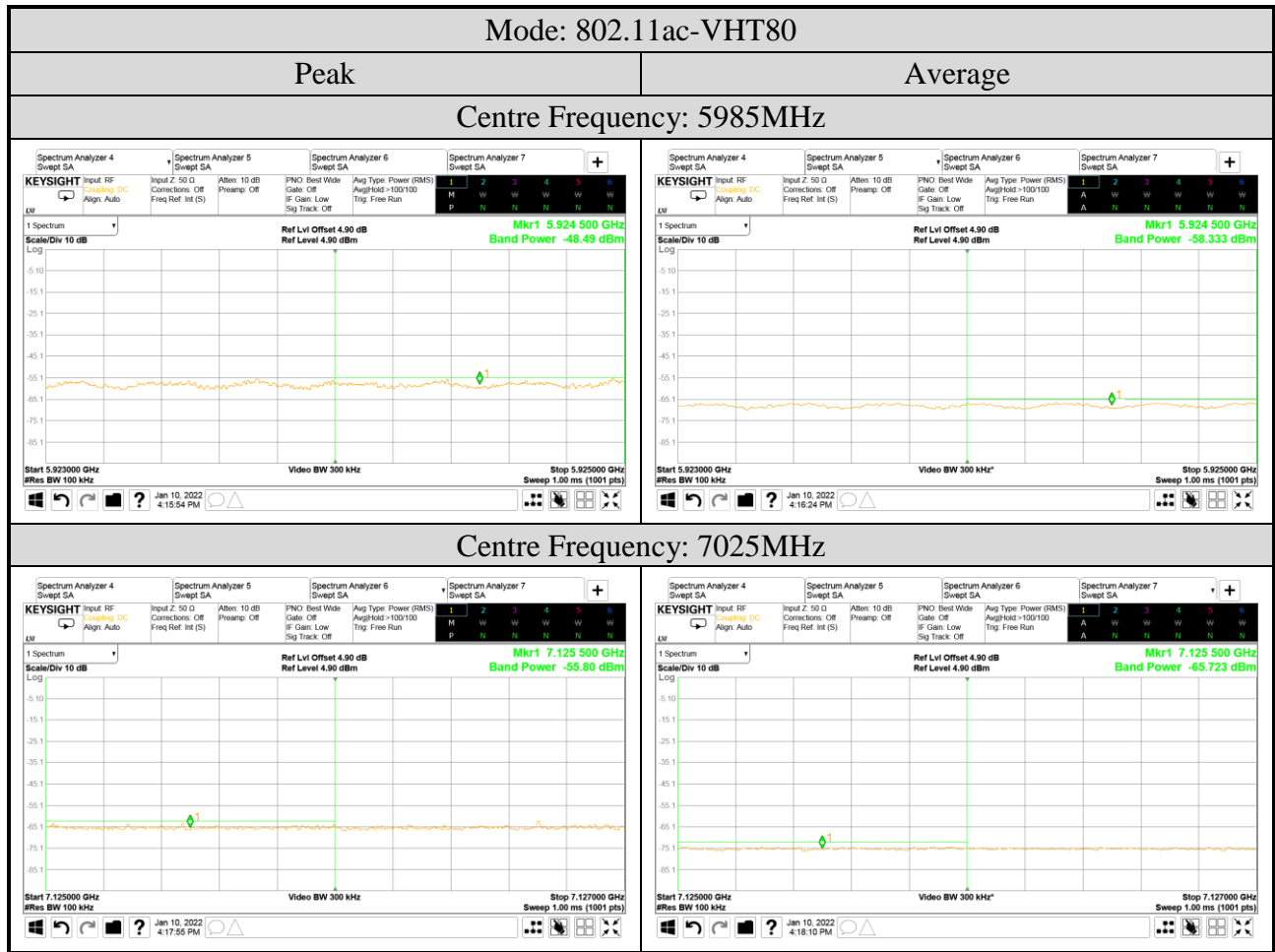
A.6.2 Measurement Plots

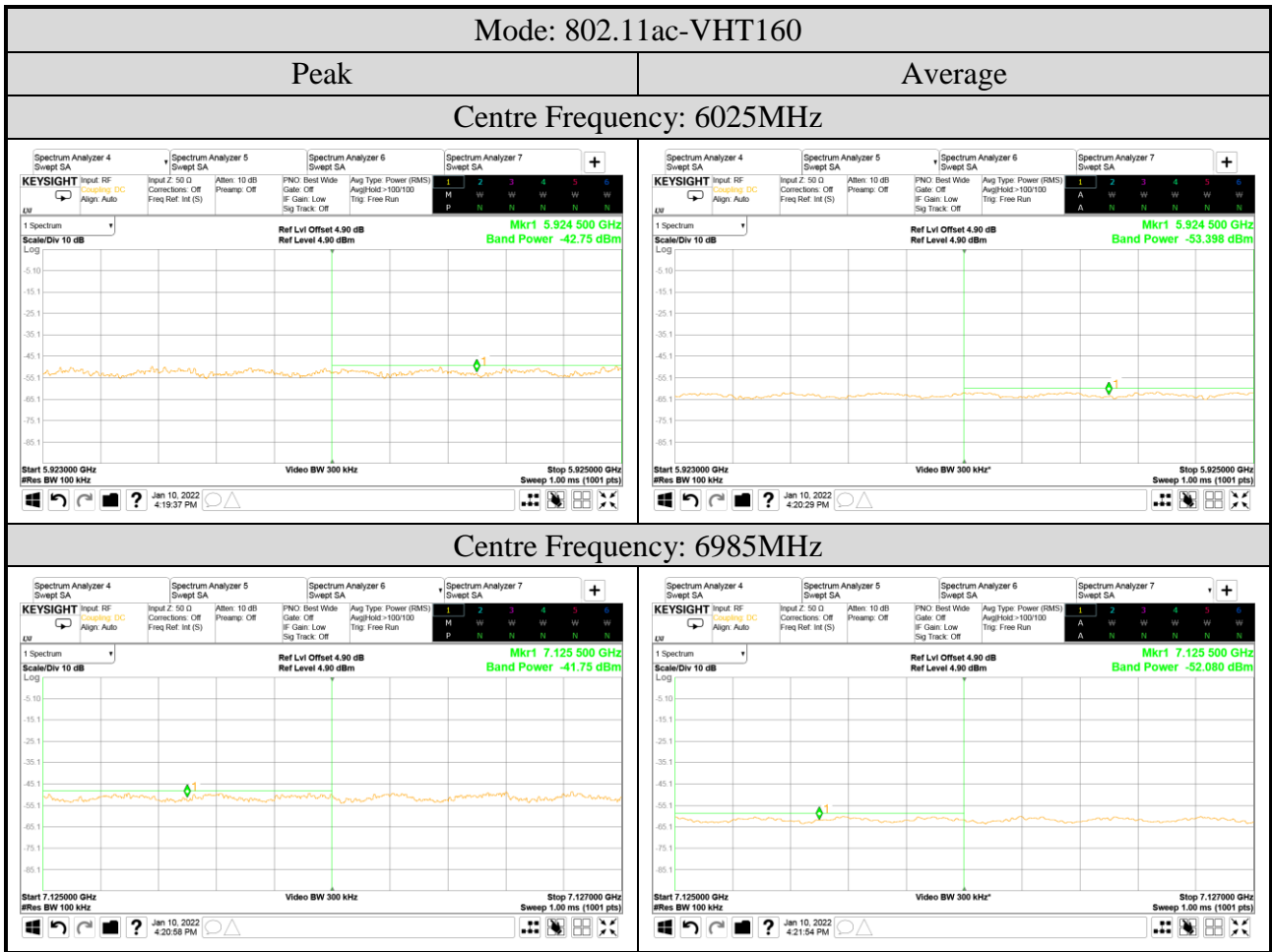
- OFDM Modulation

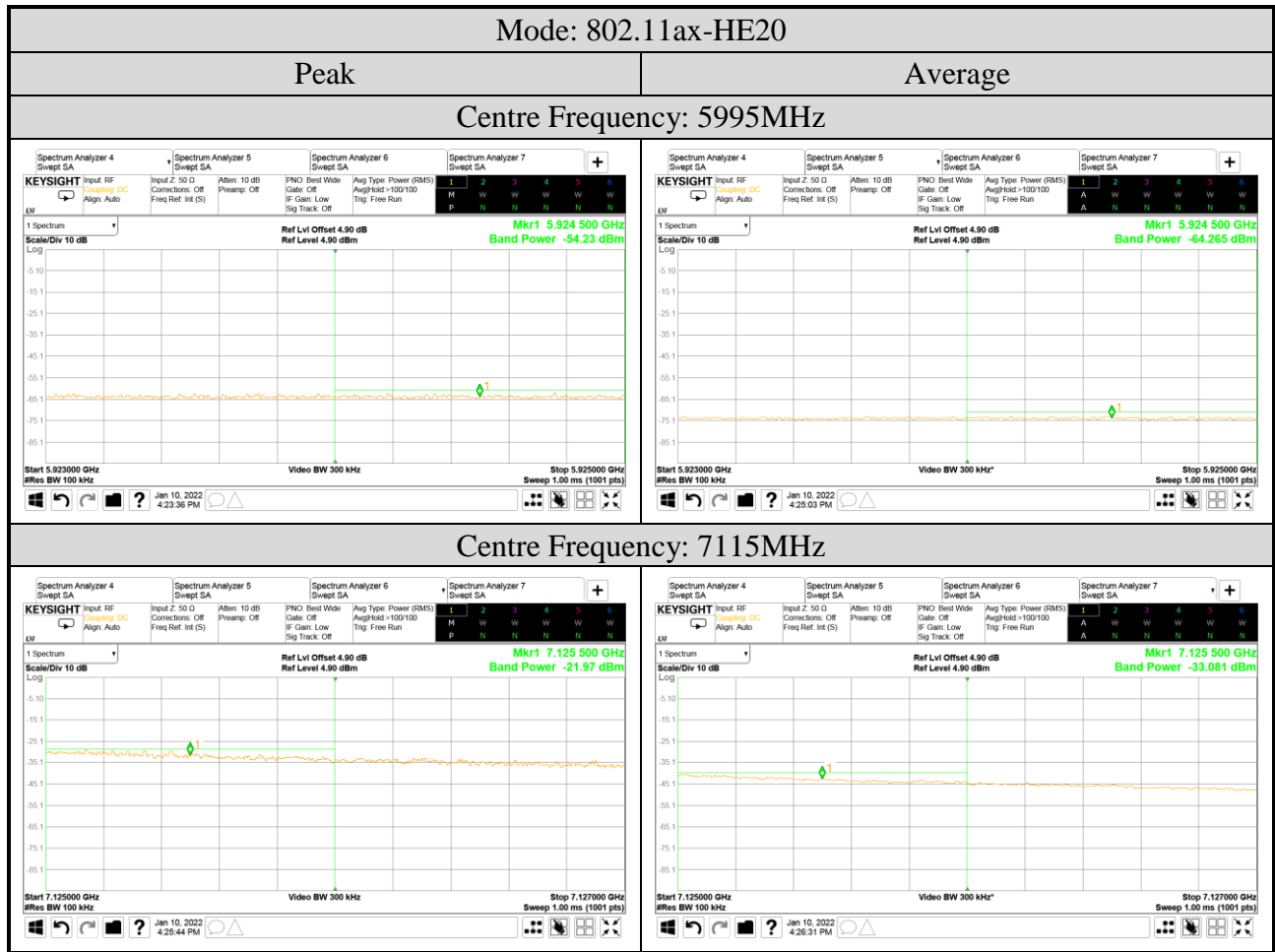


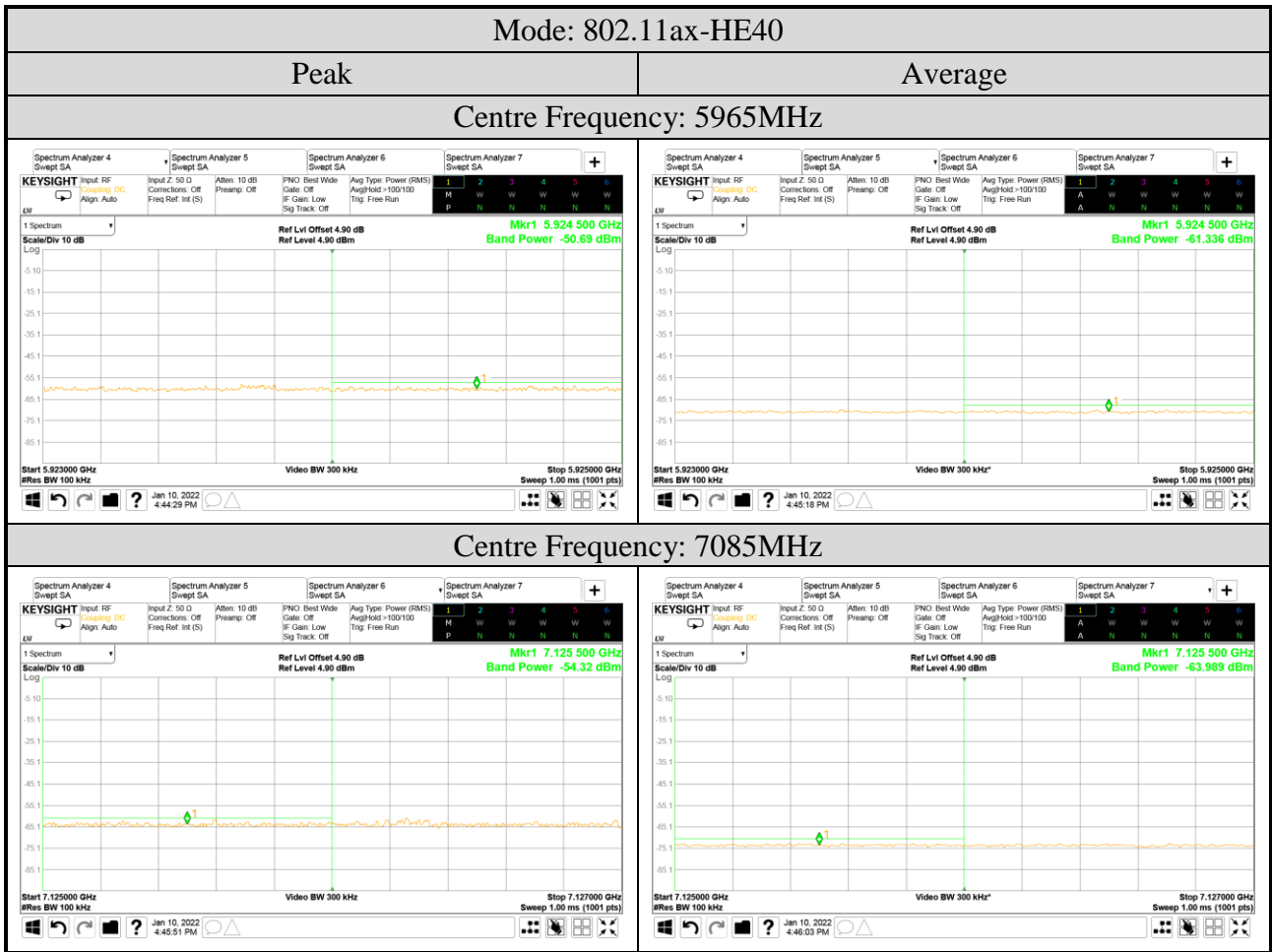


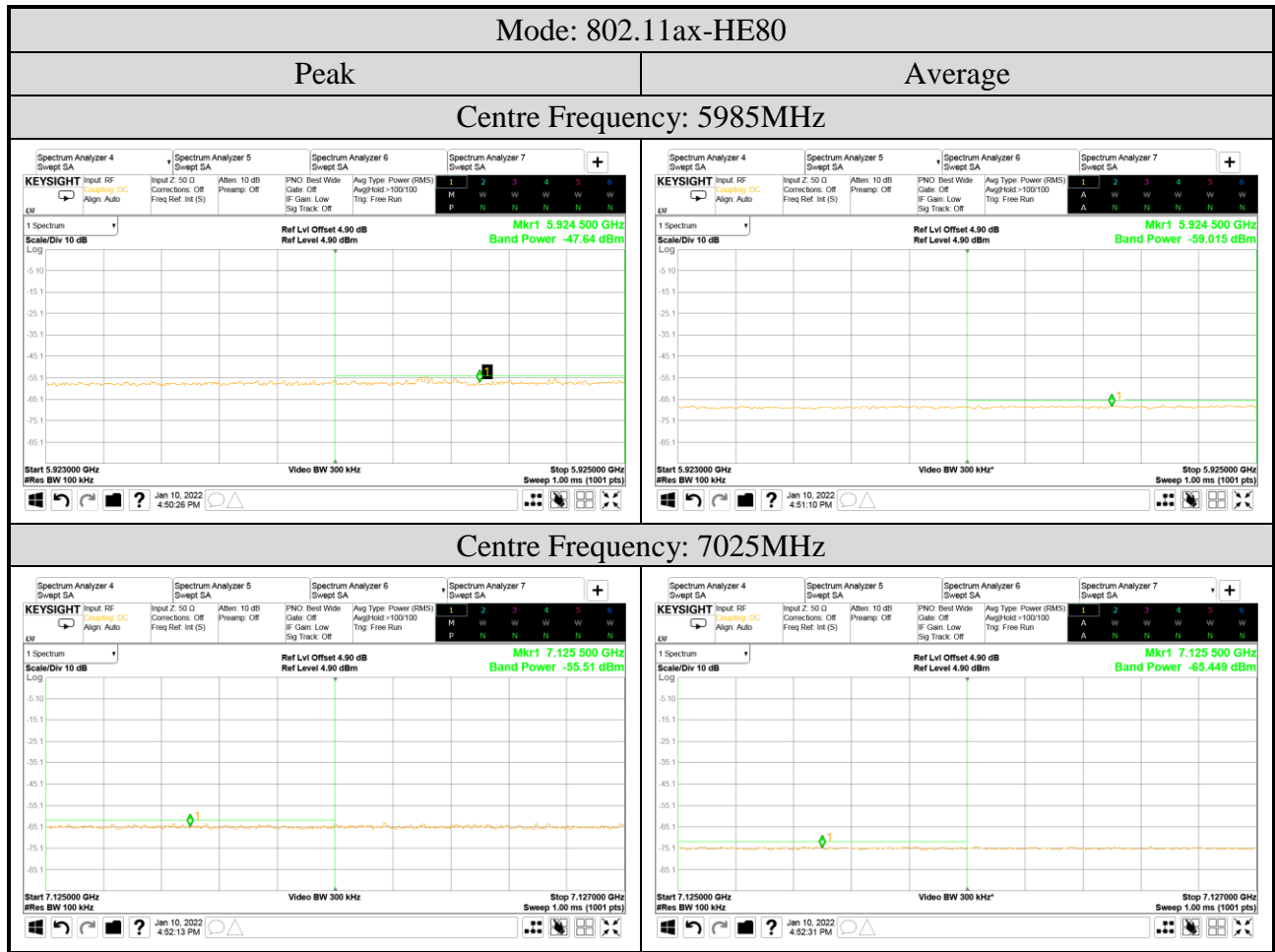


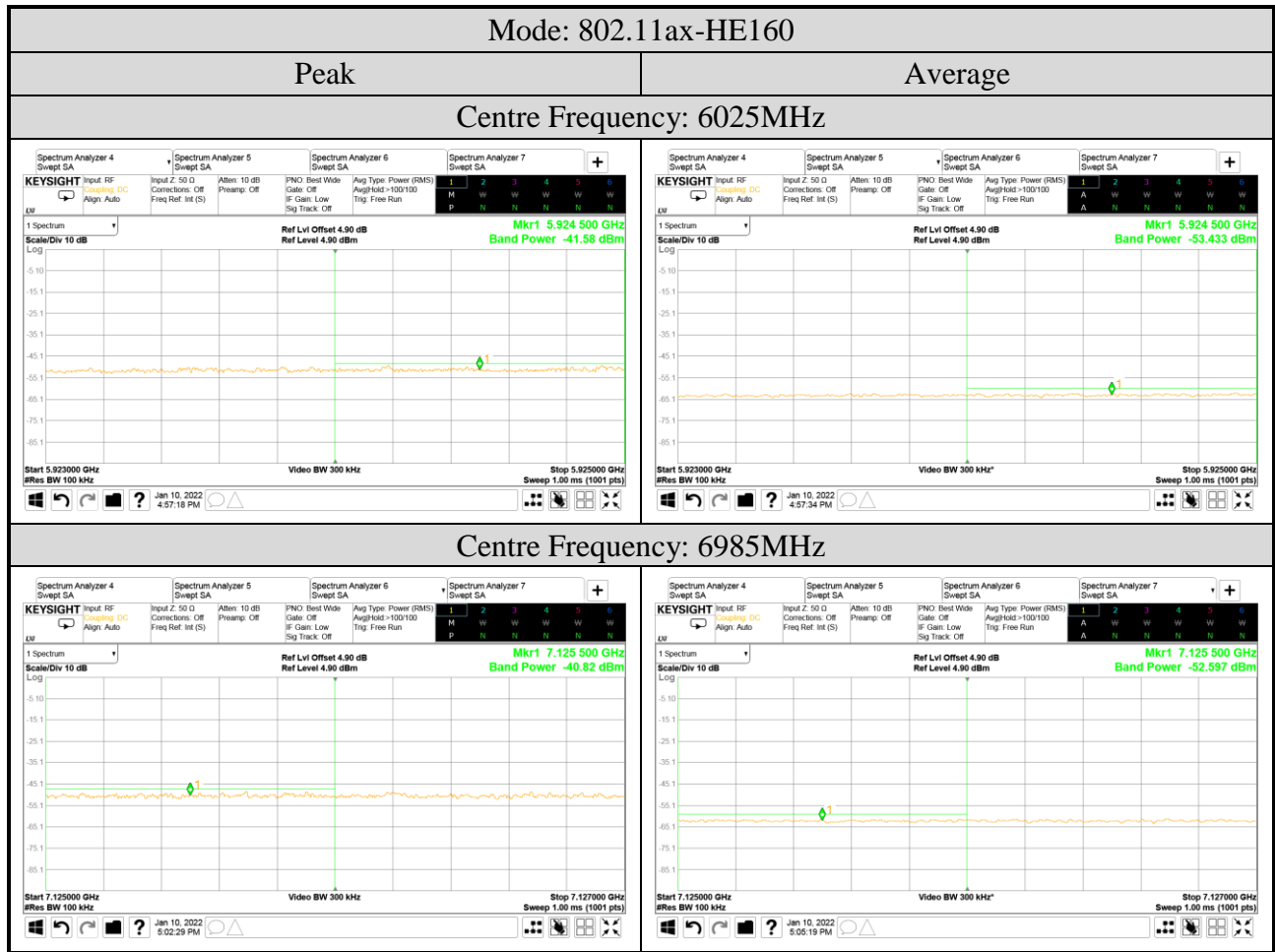










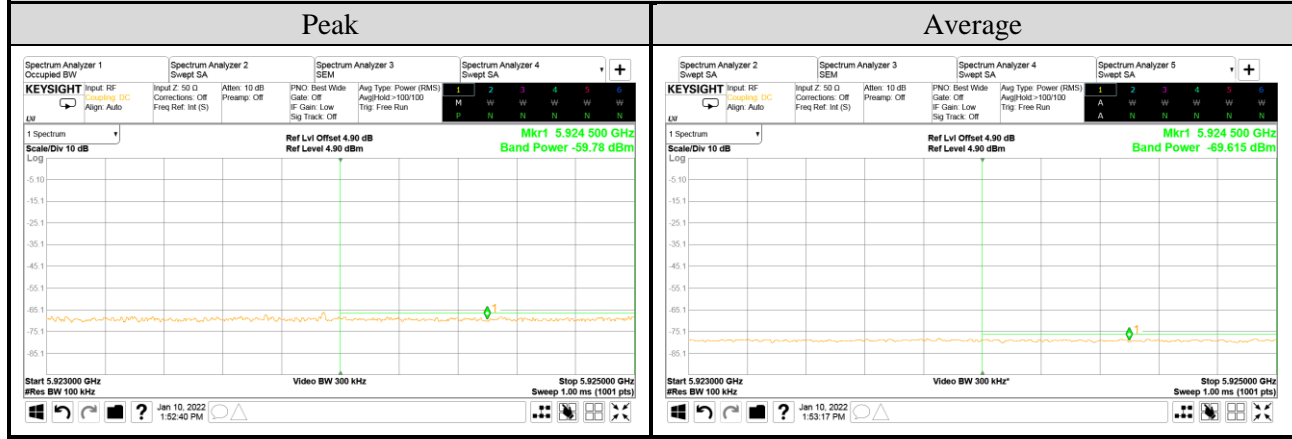


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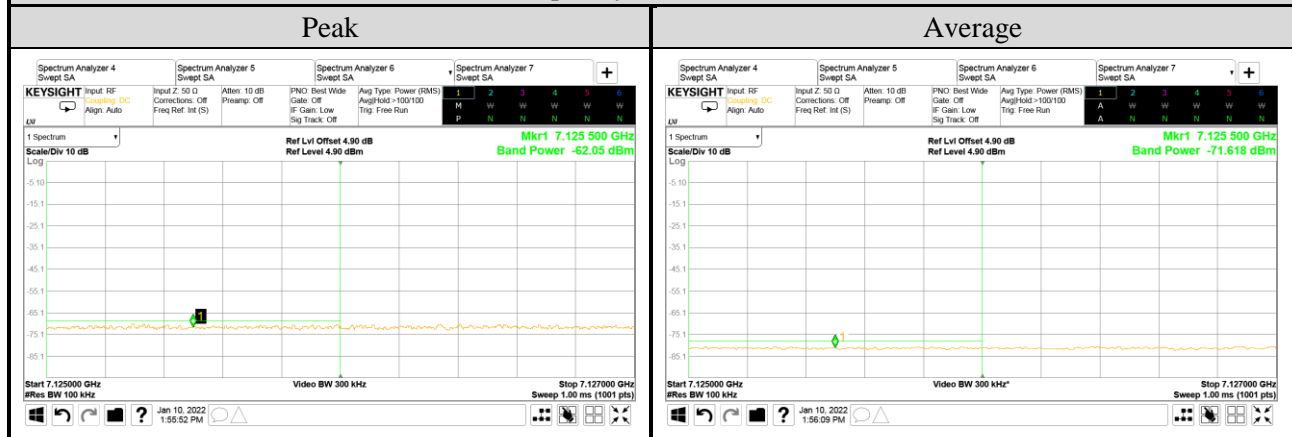
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● OFDMA Modulation

Tones: 26T
RU Index: 0
Mode: 802.11ax-HE40
Centre Frequency: 5965MHz



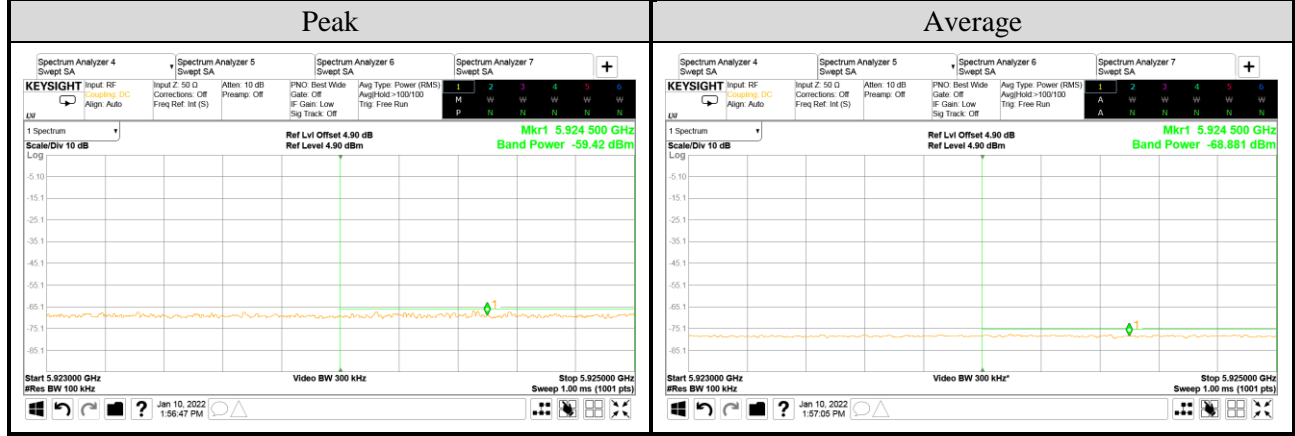
Tones: 26T
RU Index: 17
Mode: 802.11ax-HE160
Centre Frequency: 6985MHz



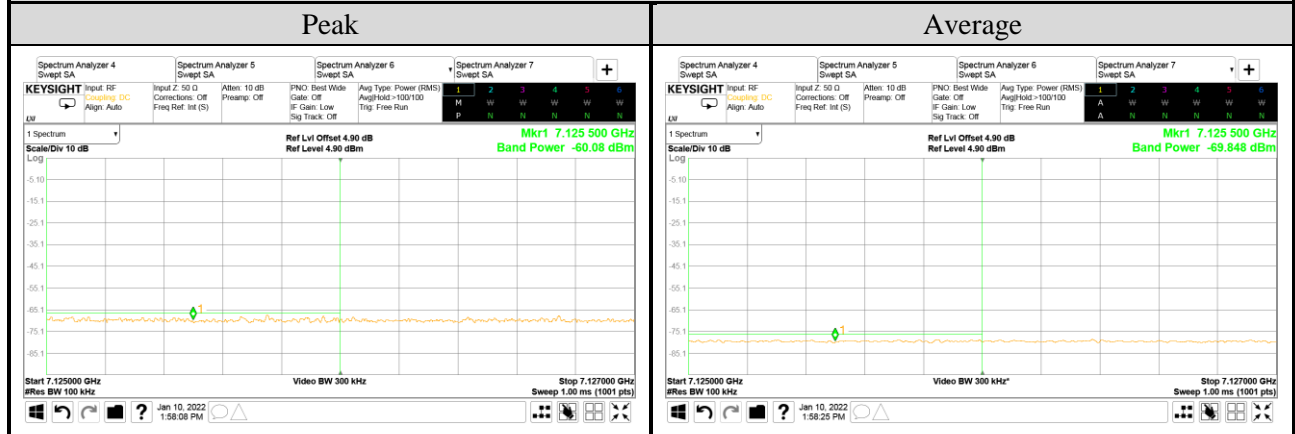
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Tones: 52T
RU Index: 37
Mode: 802.11ax-HE20
Centre Frequency: 5955MHz



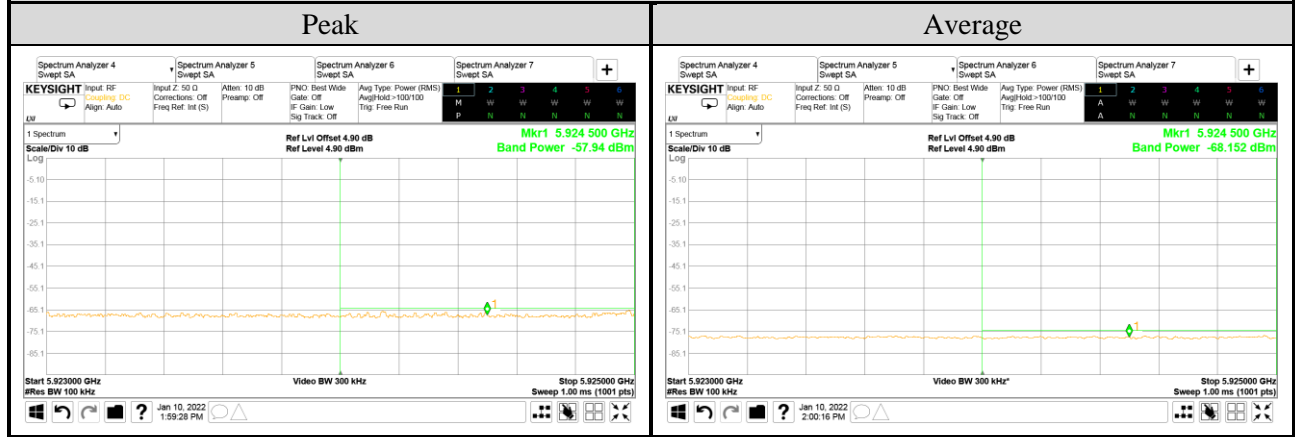
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RU Index: 44
Mode: 802.11ax-HE160
Centre Frequency: 7085MHz



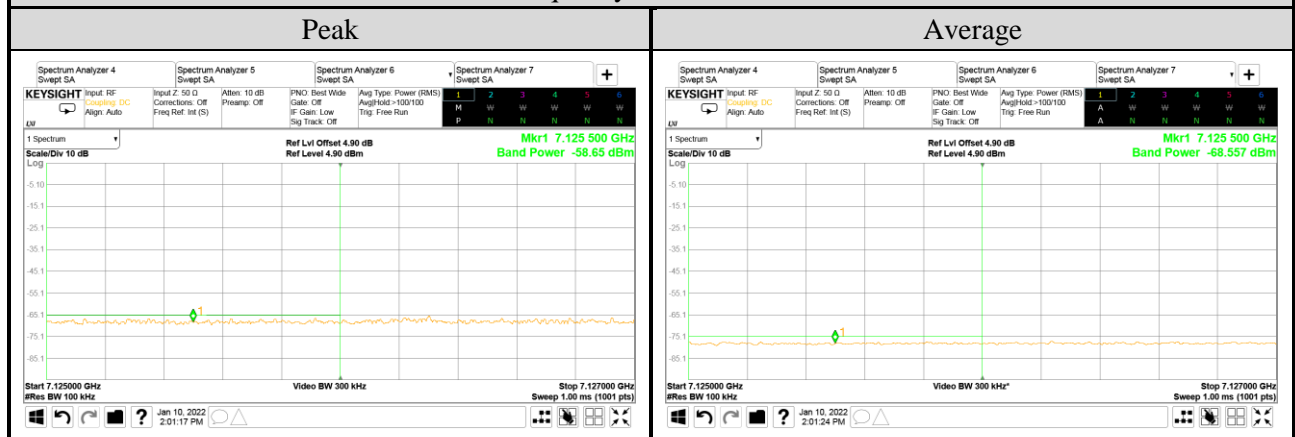
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Tones: 106T
RU Index: 53
Mode: 802.11ax-HE20
Centre Frequency: 5955MHz



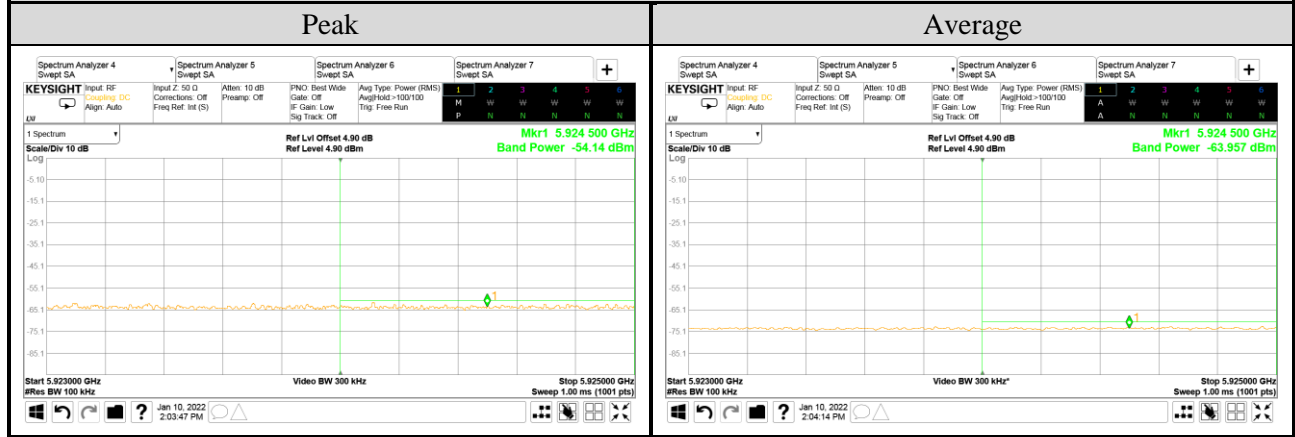
Tones: 106T
RU Index: 56
Mode: 802.11ax-HE40
Centre Frequency: 7085MHz



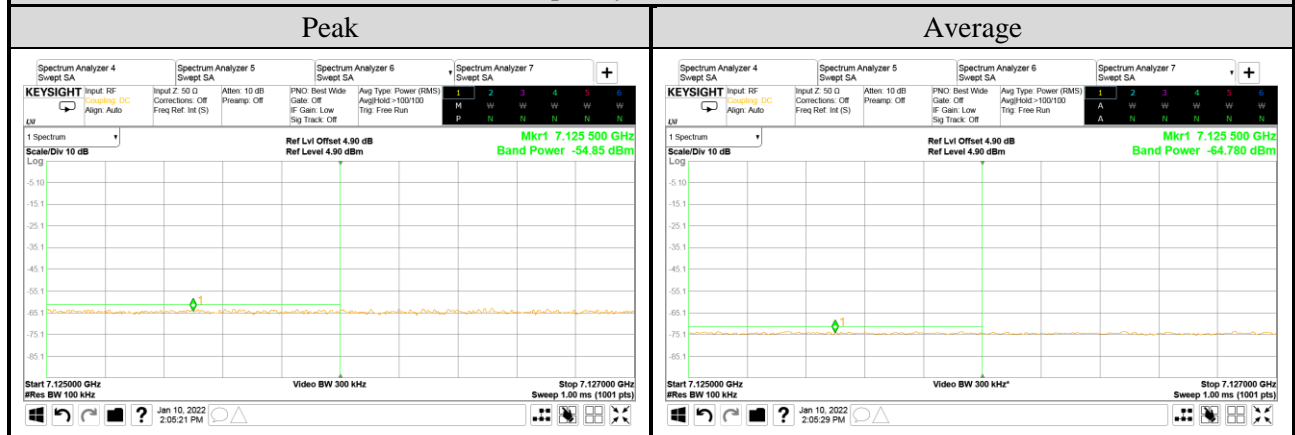
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Tones: 242T
RU Index: 61
Mode: 802.11ax-HE80
Centre Frequency: 5985MHz



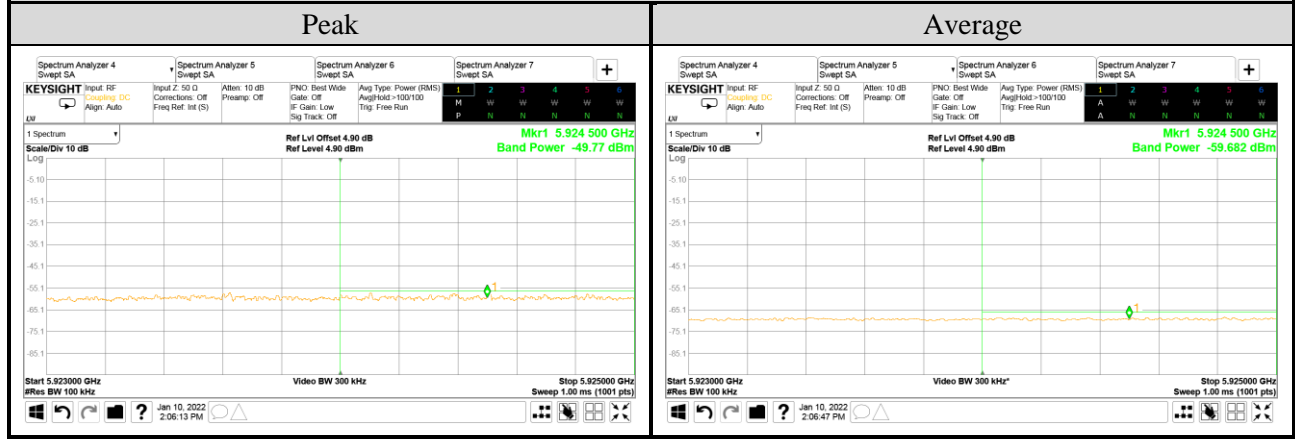
Tones: 242T
RU Index: 62
Mode: 802.11ax-HE40
Centre Frequency: 7085MHz



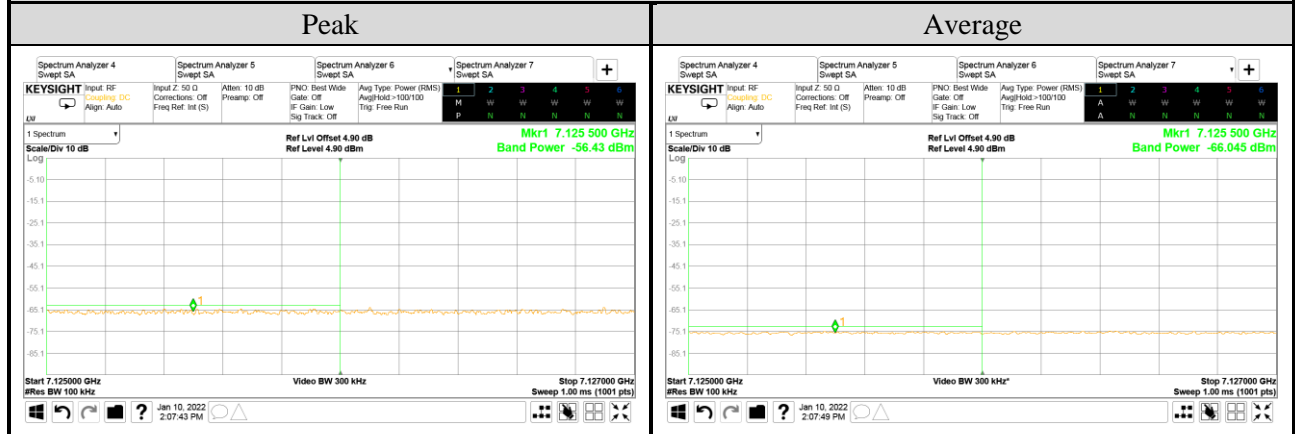
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Tones: 484T
RU Index: 65
Mode: 802.11ax-HE40
Centre Frequency: 5965MHz



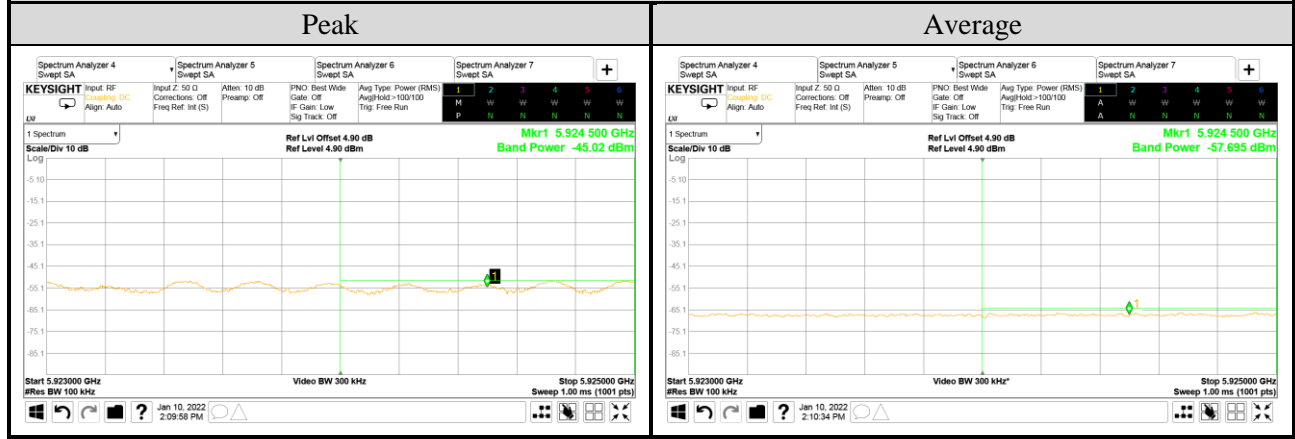
Tones: 484T
RU Index: S66
Mode: 802.11ax-HE160
Centre Frequency: 6985MHz



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Tones: 996T
RU Index: 67
Mode: 802.11ax-HE160
Centre Frequency: 6025MHz

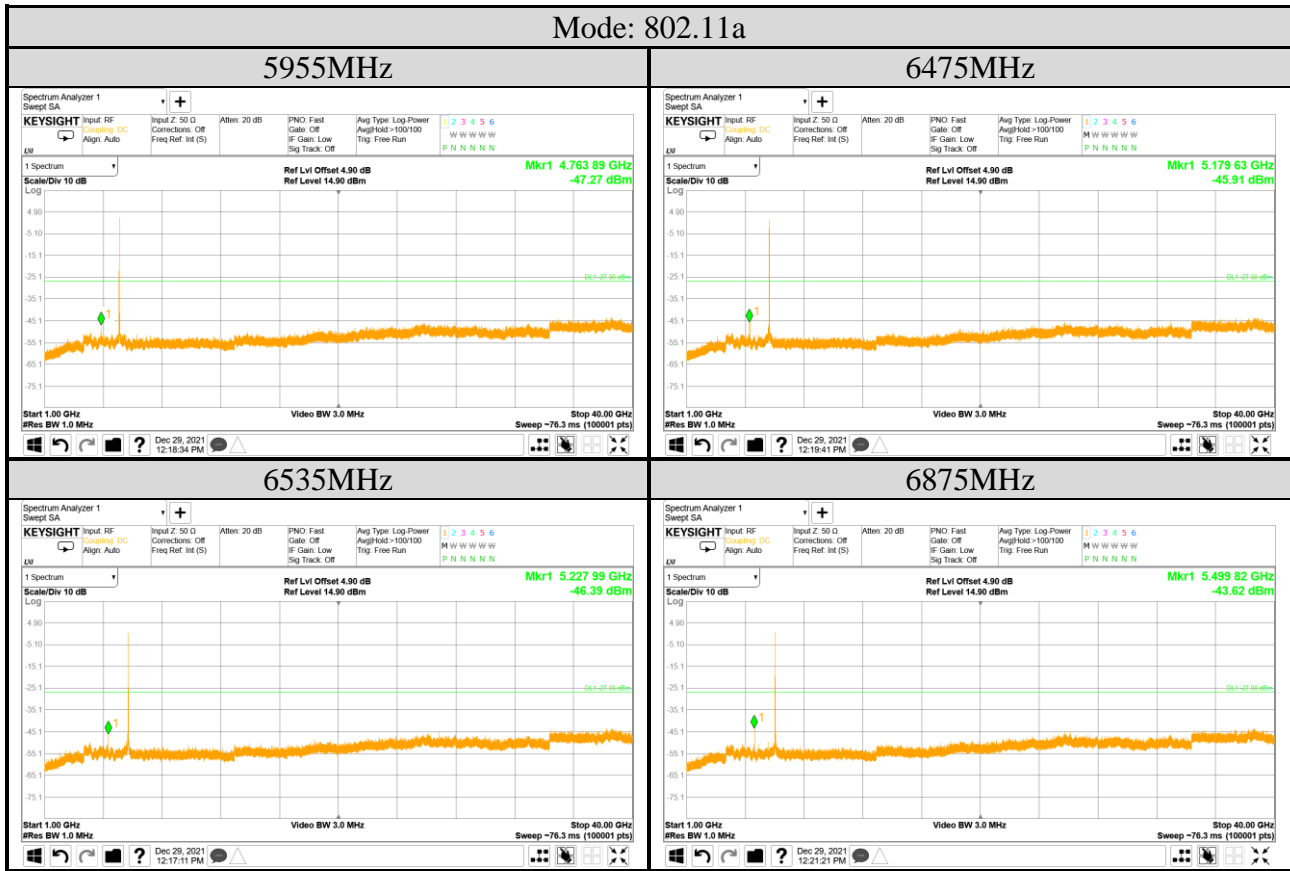


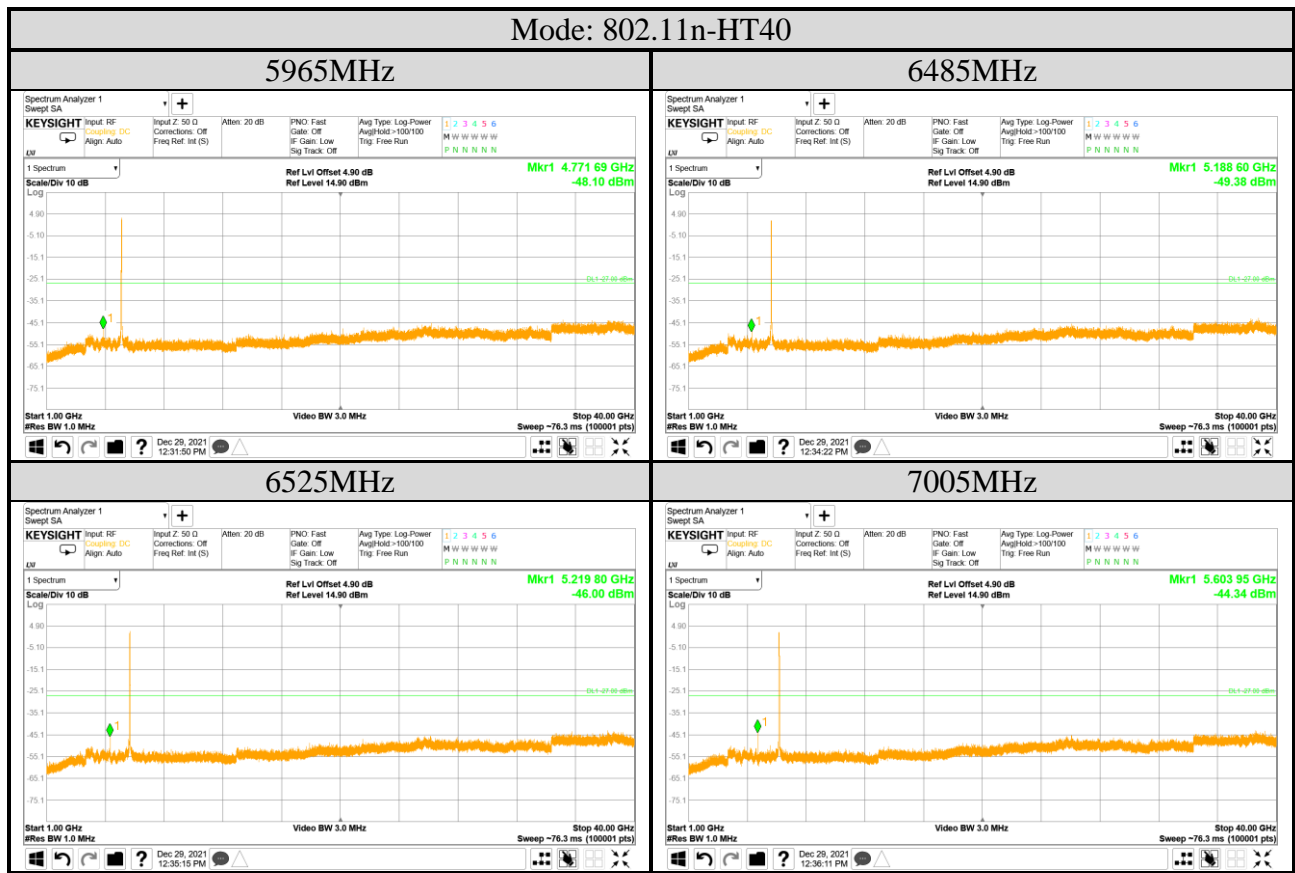
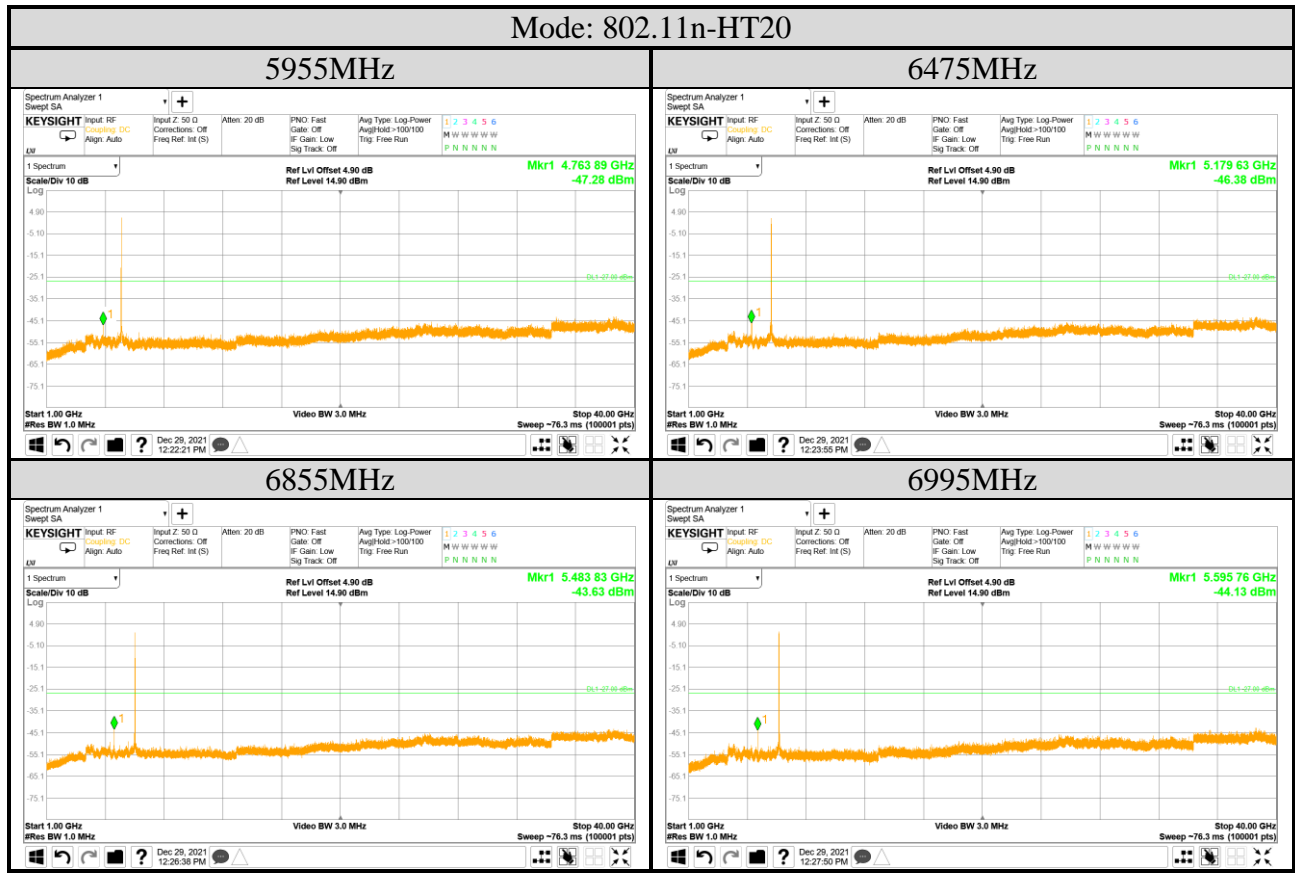
Tones: 996T
RU Index: S67
Mode: 802.11ax-HE160
Centre Frequency: 6985MHz

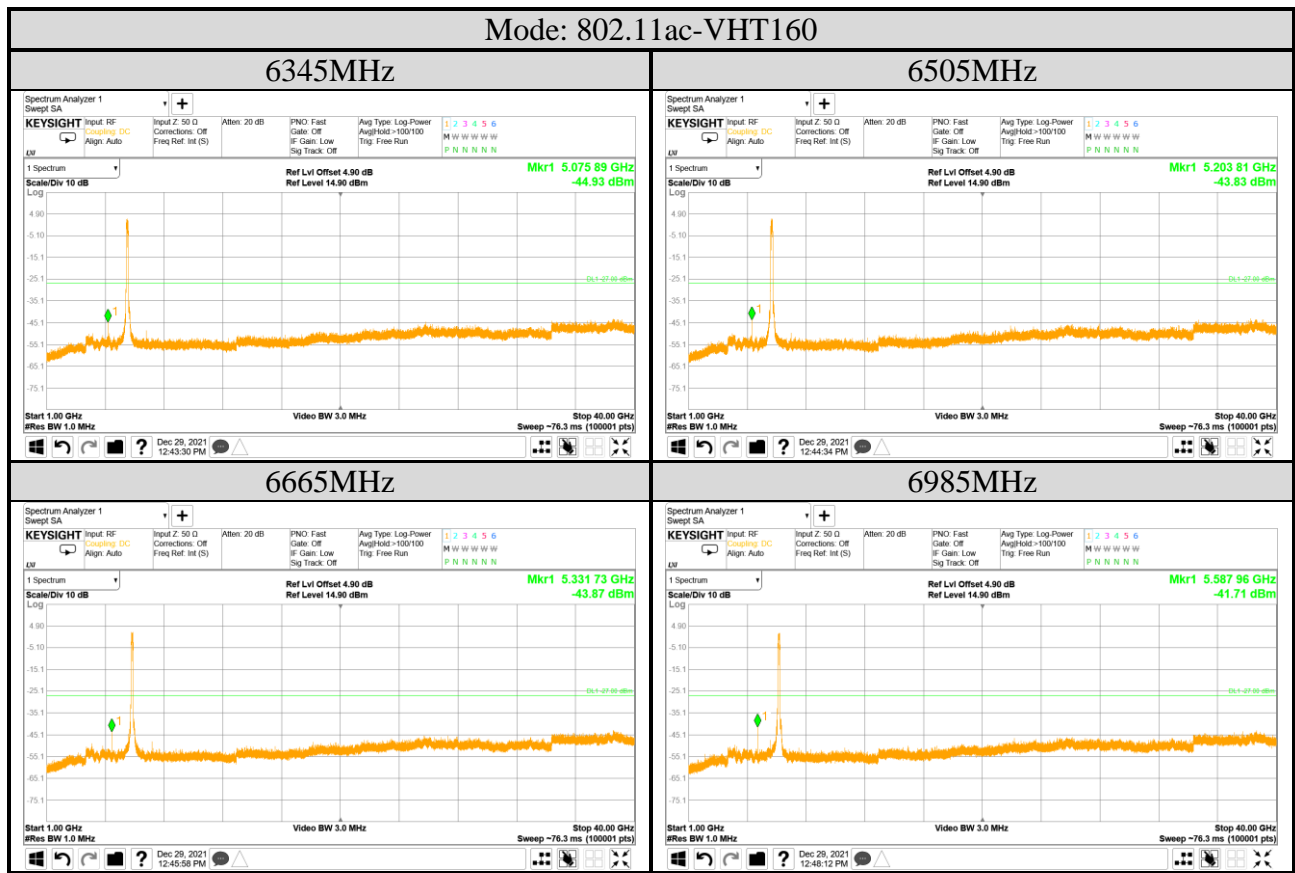
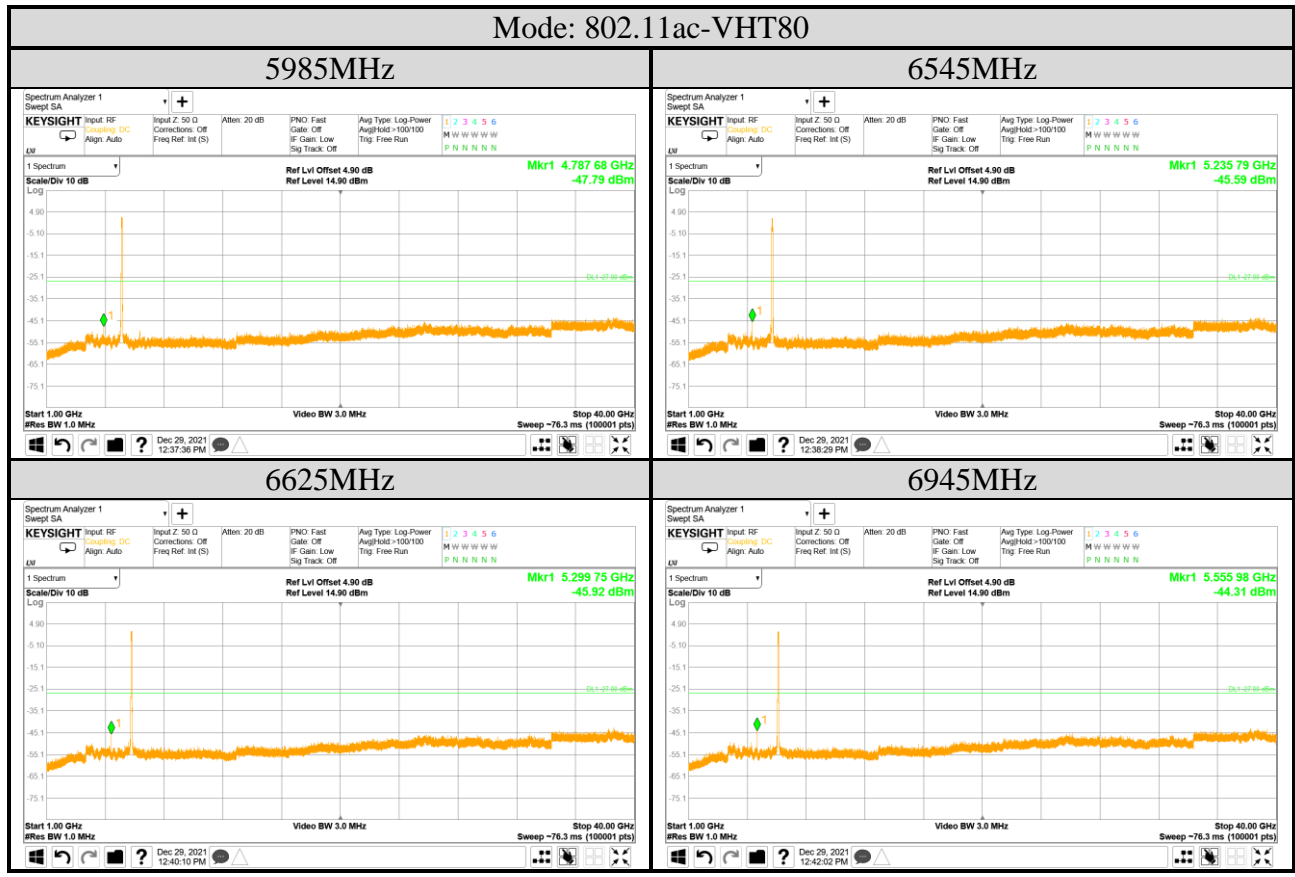


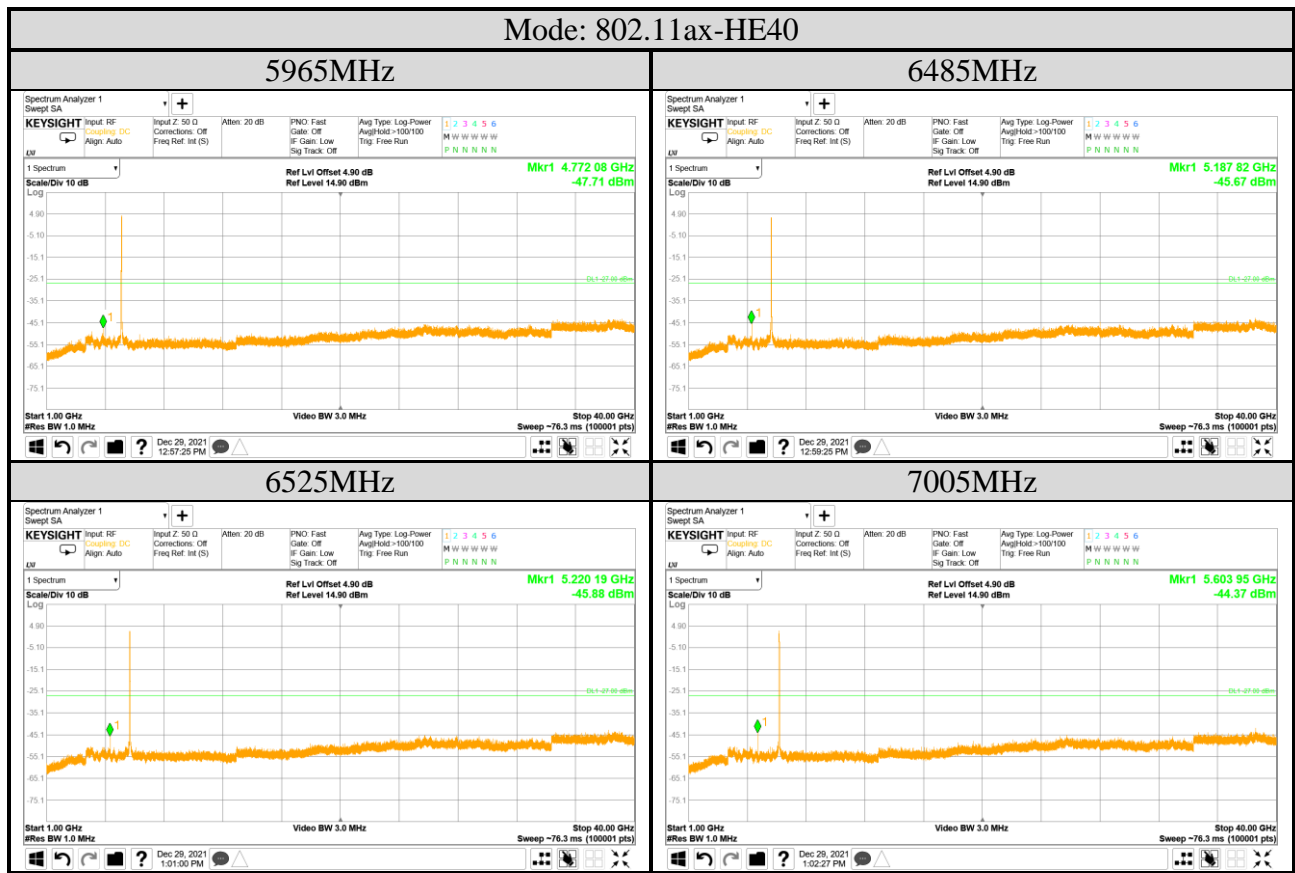
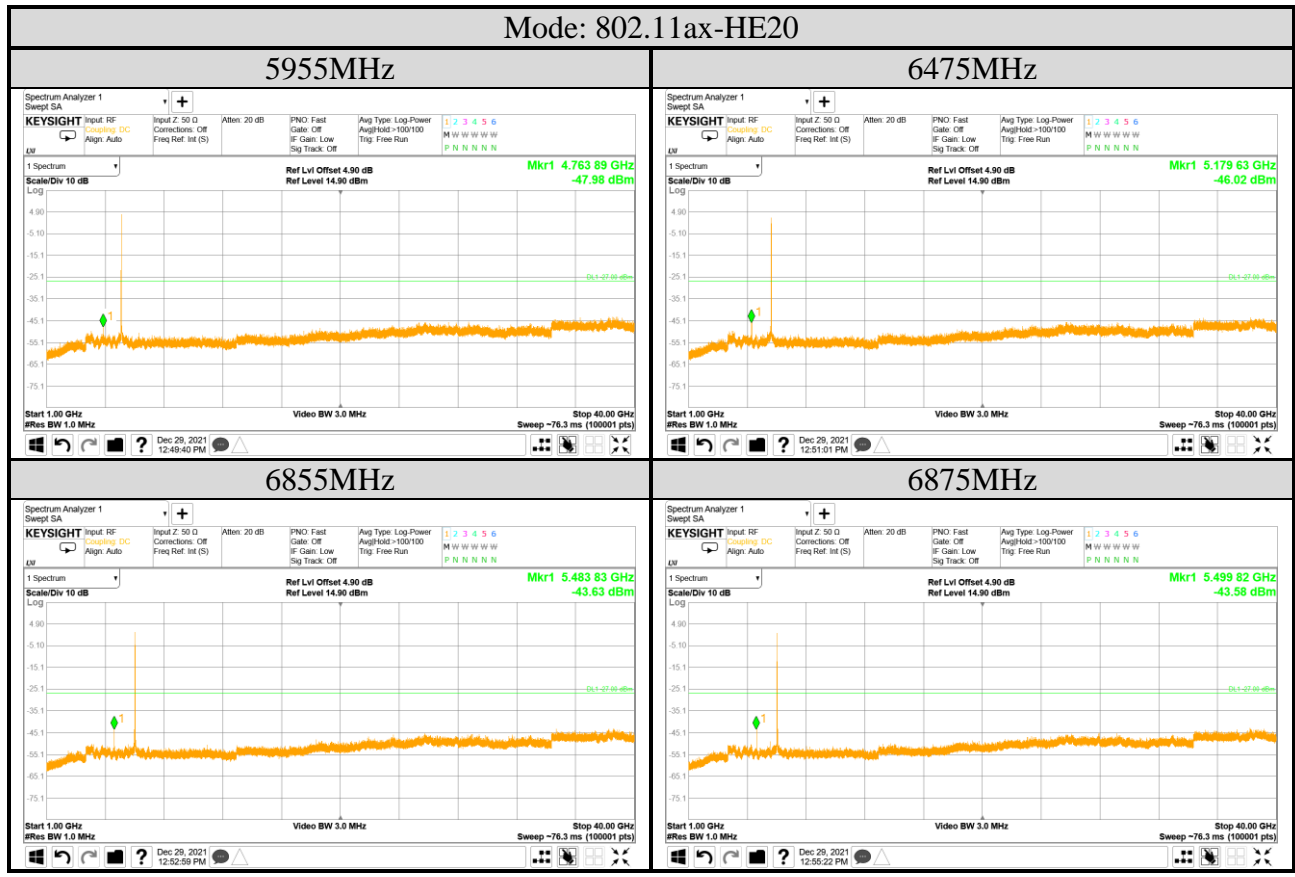
A.6.3 Measurement Plots for Spurious Emission

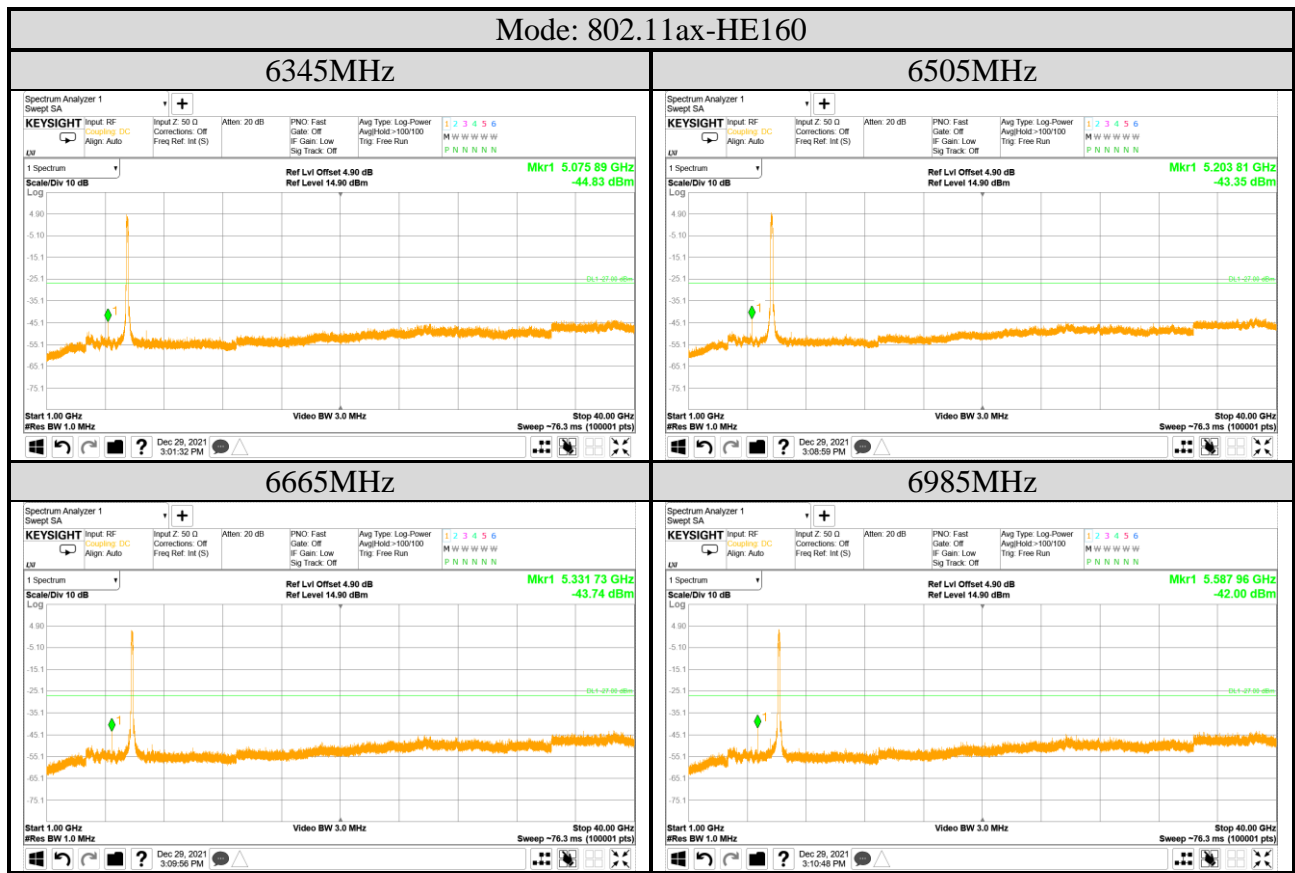
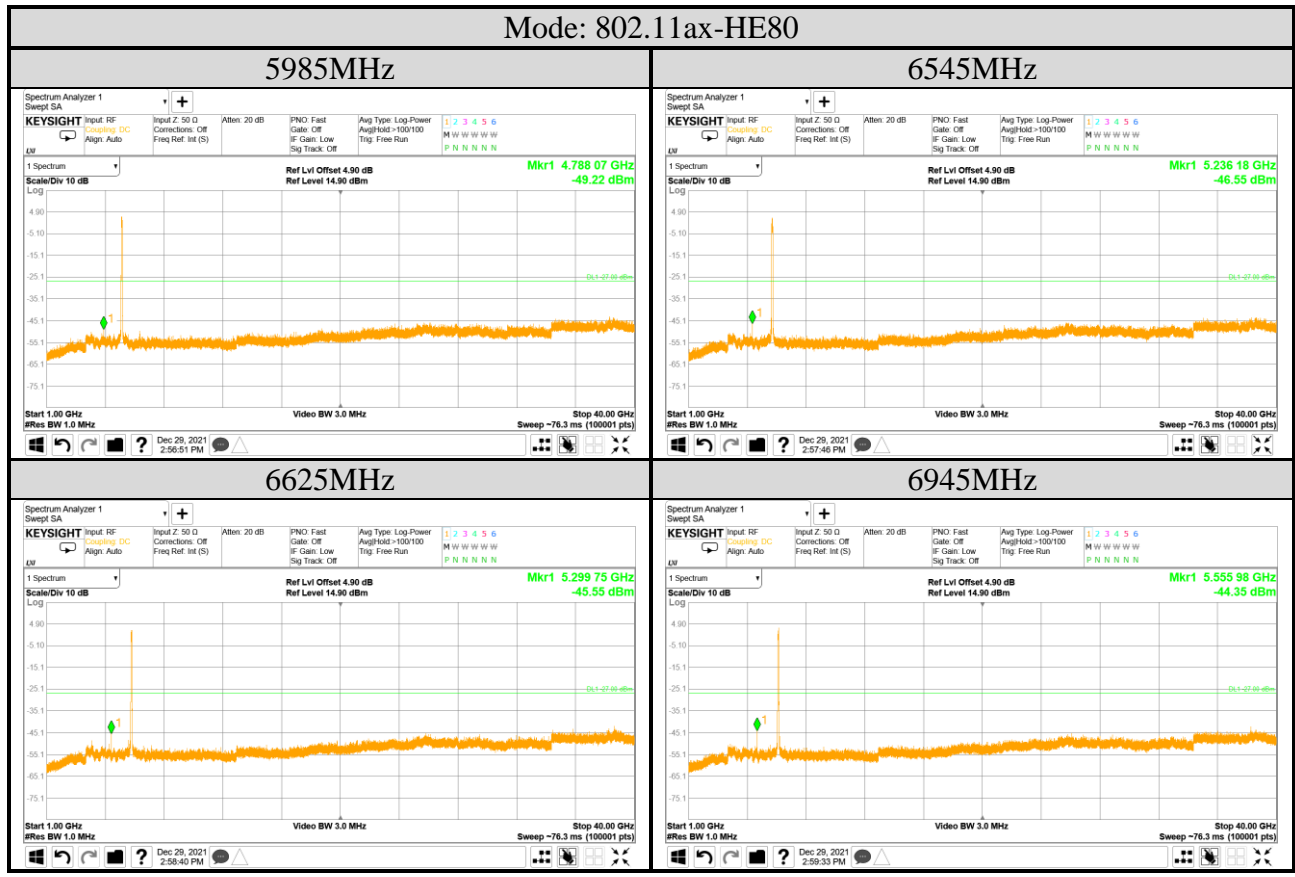
● OFDM Modulation











● OFDMA Modulation

<p>Tones: 26T RU Index: 18 Mode: 802.11ax-HE80 Centre Frequency: 7025MHz</p>	<p>Tones: 242T RU Index: S61 Mode: 802.11ax-HE160 Centre Frequency: 6985MHz</p>
<p>Tones: 52T RU Index: 37 Mode: 802.11ax-HE40 Centre Frequency: 7085MHz</p>	<p>Tones: 484T RU Index: S65 Mode: 802.11ax-HE160 Centre Frequency: 6985MHz</p>
<p>Tones: 106T RU Index: 53 Mode: 802.11ax-HE40 Centre Frequency: 7085MHz</p>	<p>Tones: 996T RU Index: 67 Mode: 802.11ax-HE160 Centre Frequency: 6985MHz</p>