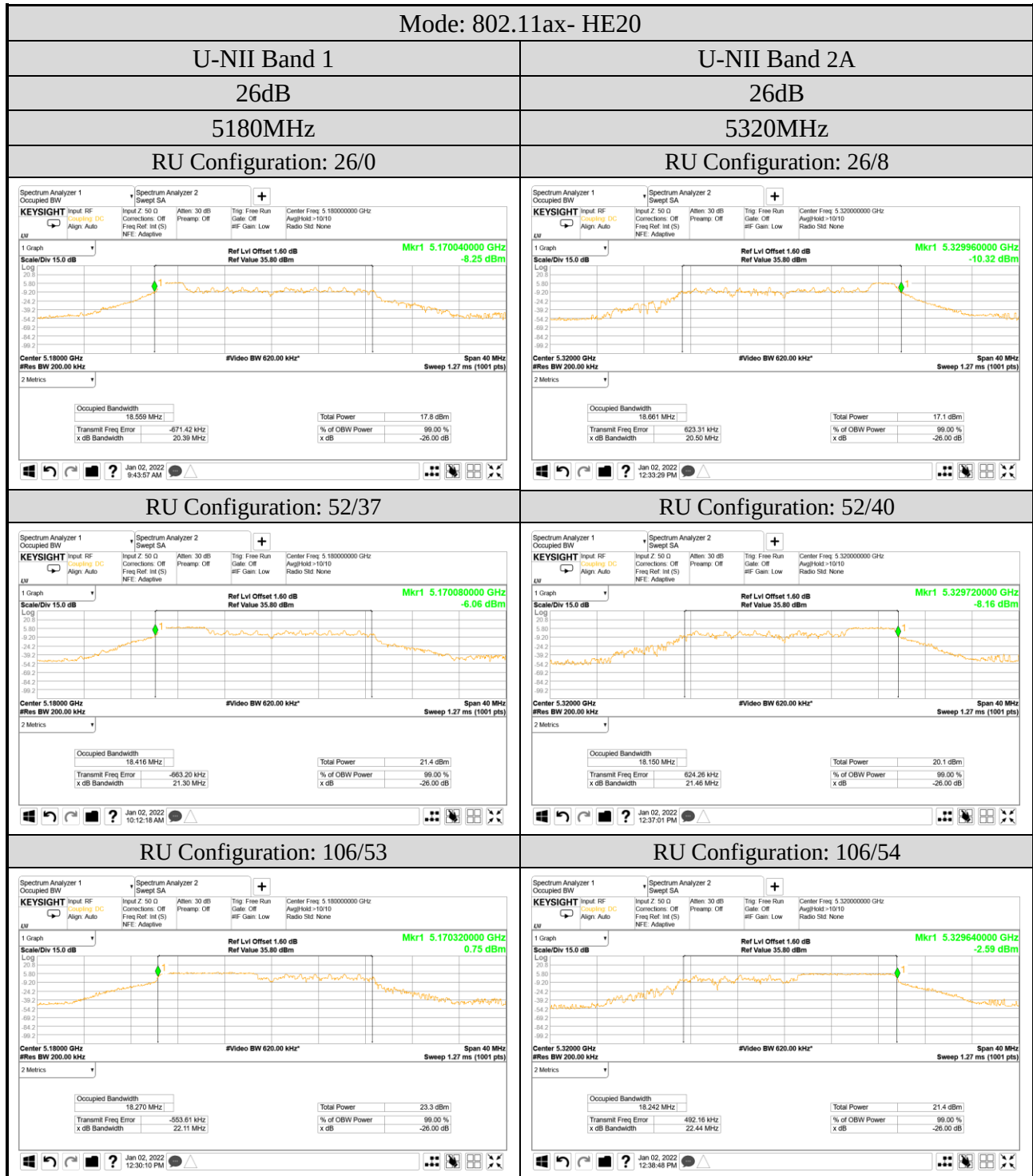


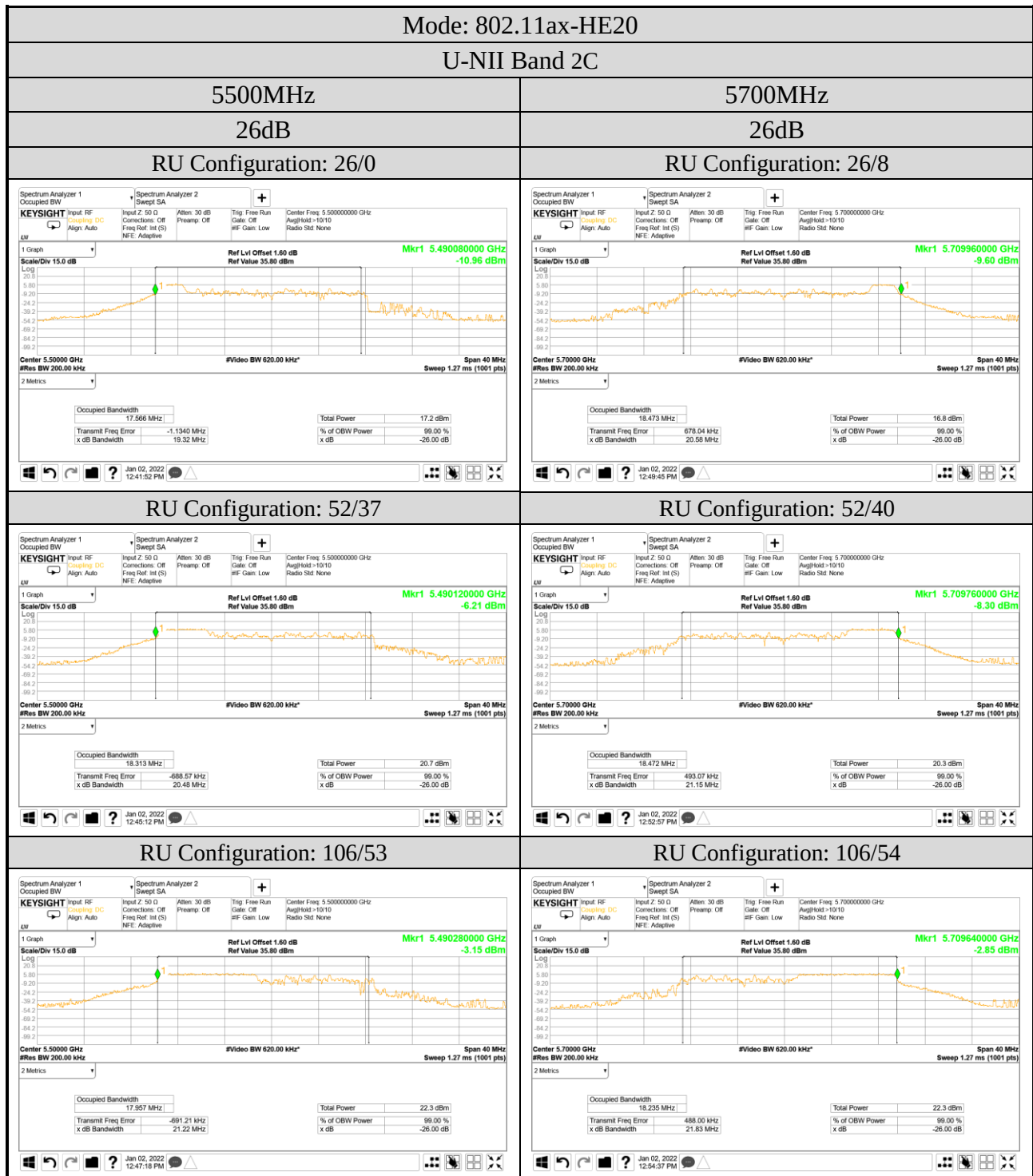
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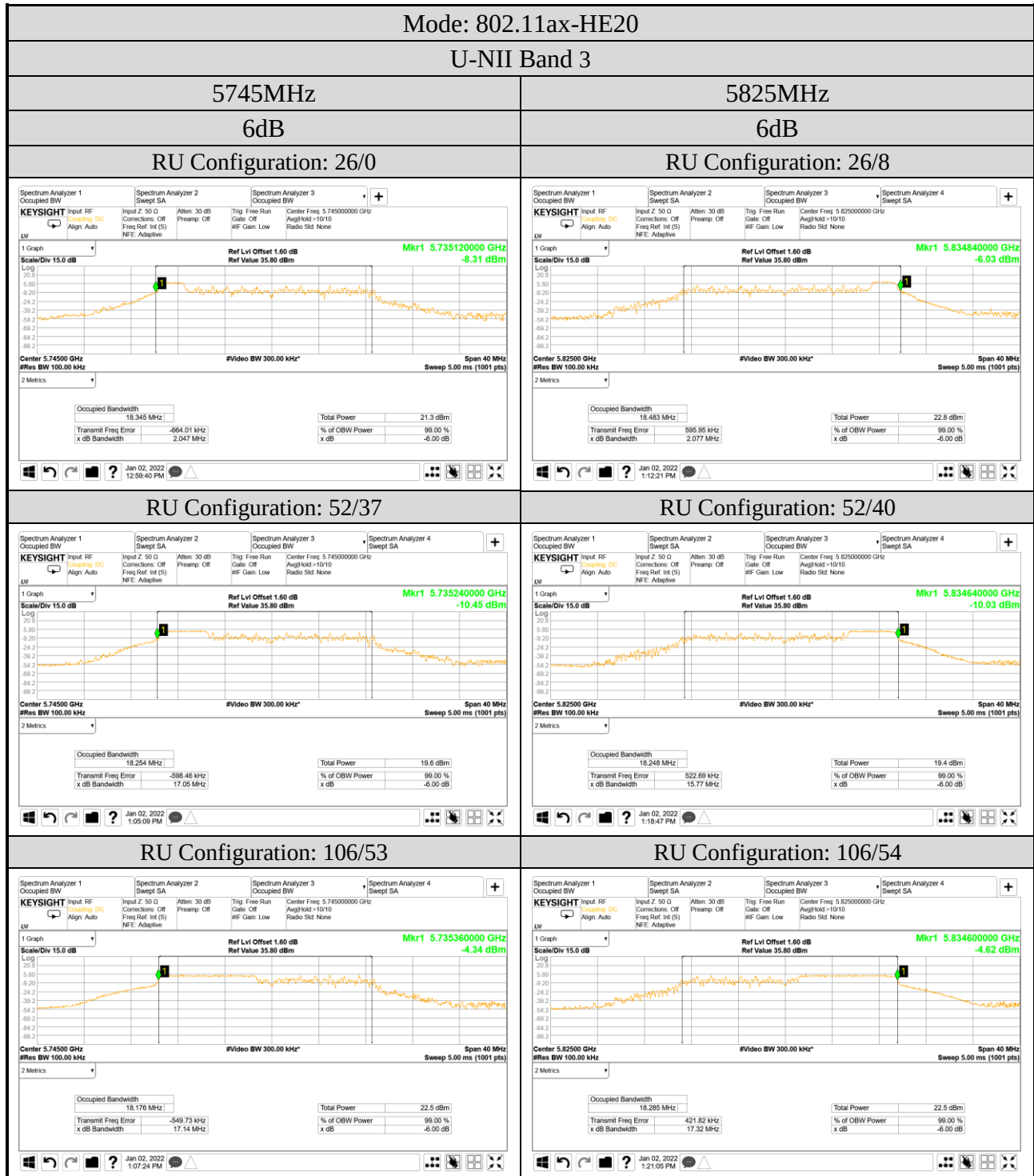
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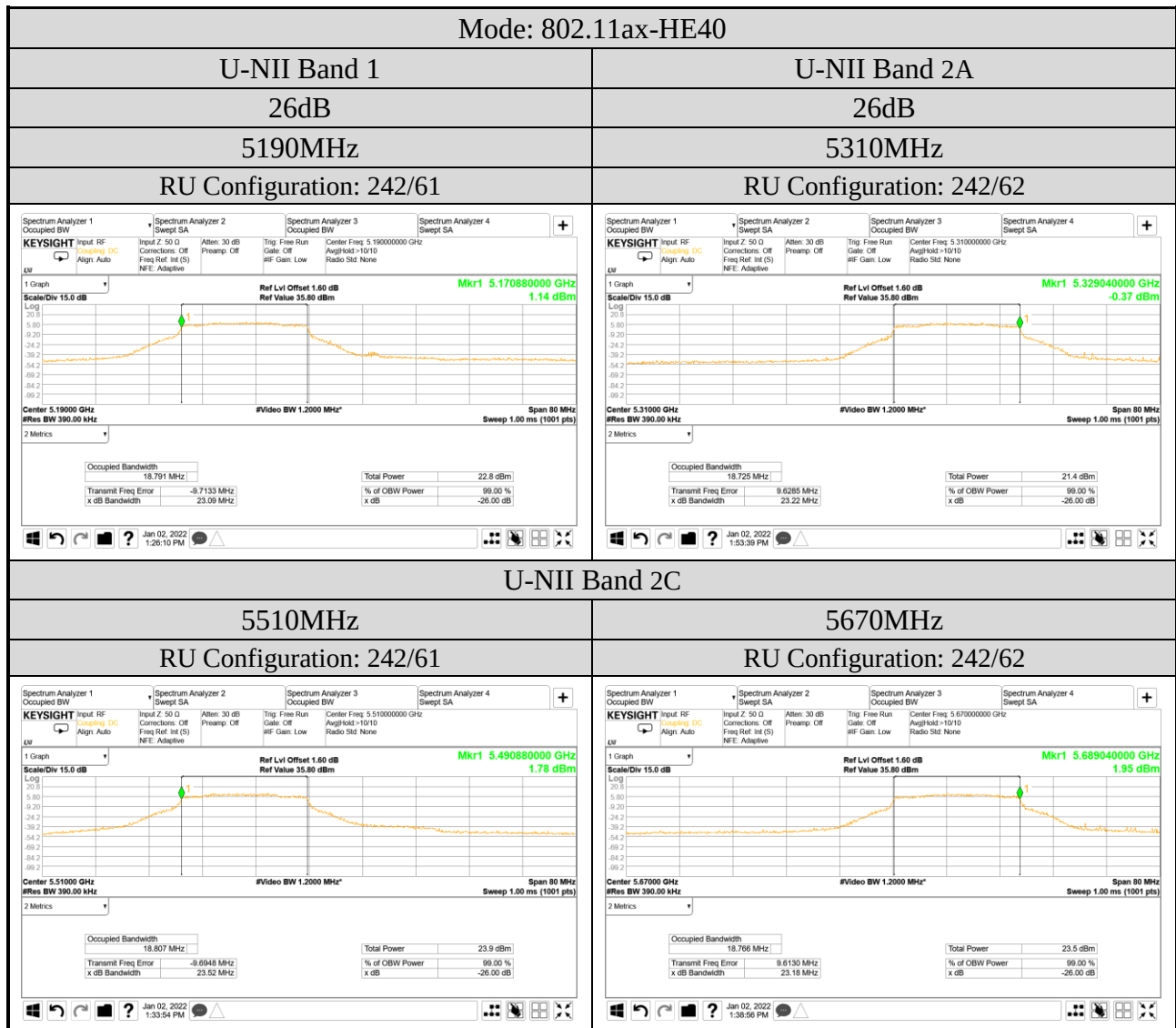
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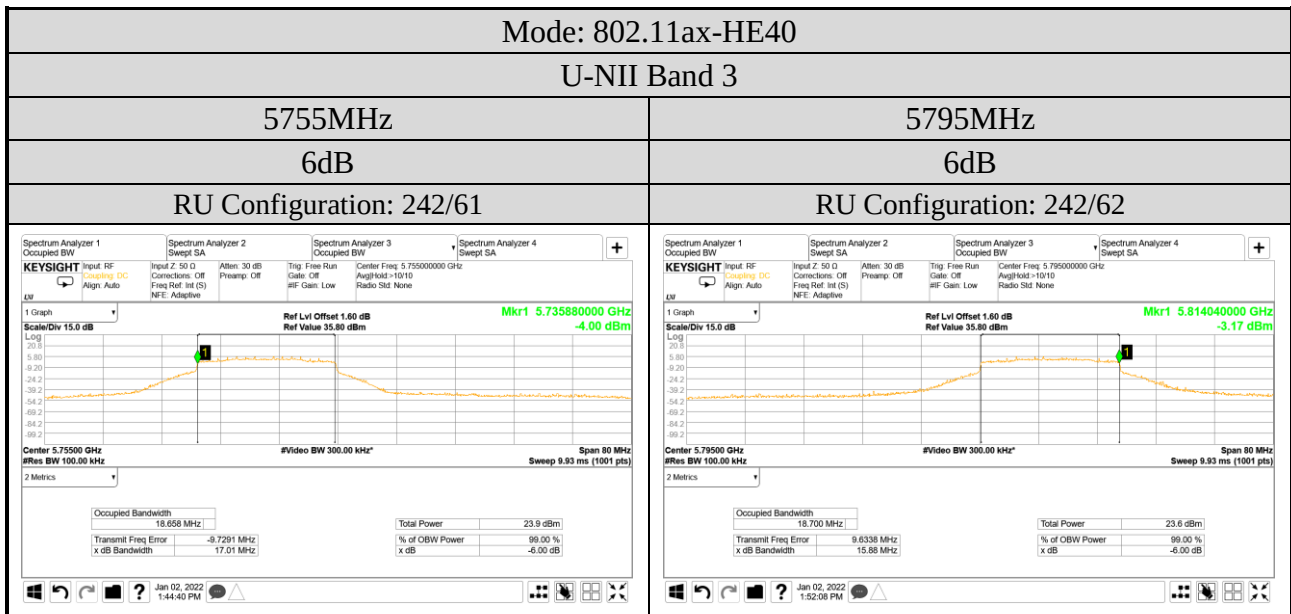
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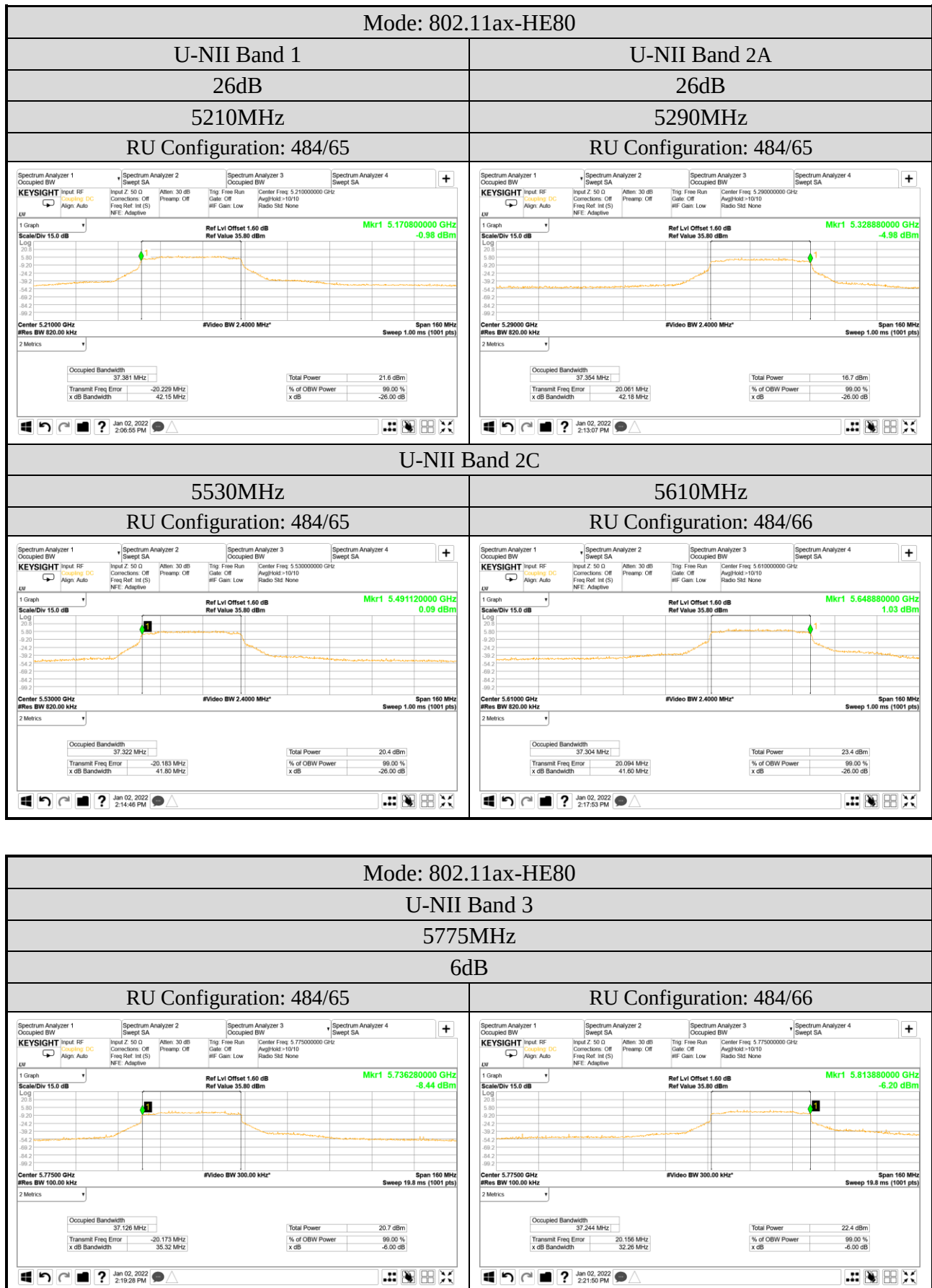
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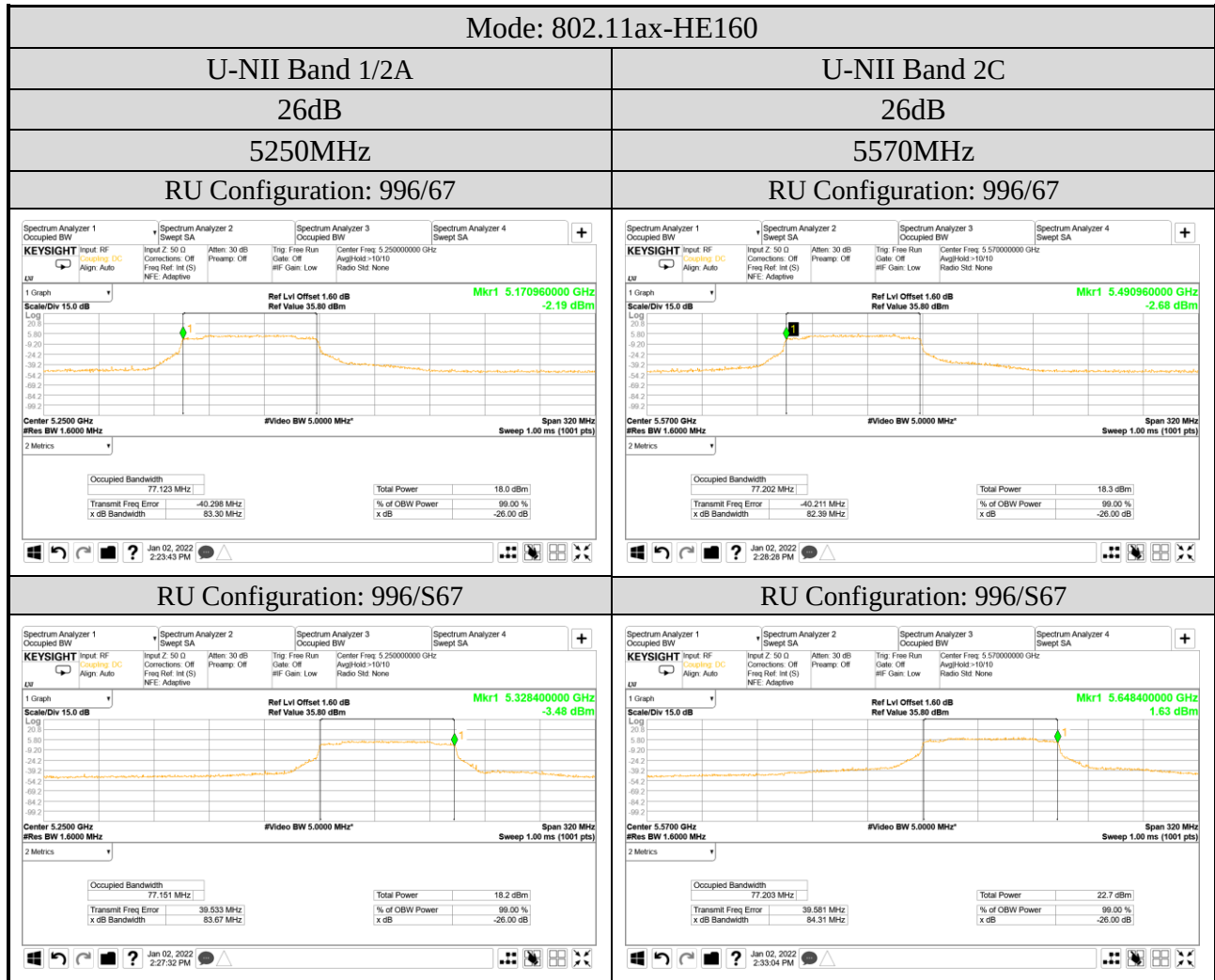
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A.4 MAXIMUM OUTPUT POWER

Test Date	2022/01/03~04	Temp./Hum.	20~21°C /65~66%
Cable Loss	1.60dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.4.1 Average Output Power

Mode	U-NII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Max Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11a	1	5180	18.52	18.27	N/A	18.520	0.071	< 250 mW (24 dBm)
		5200	20.34	20.27		20.340	0.108	
		5240	20.31	20.37		20.370	0.109	
	2A	5260	20.41	20.48		20.480	0.112	
		5300	20.45	20.32		20.450	0.111	
		5320	18.51	18.58		18.580	0.072	
	2C	5500	18.77	18.87		18.870	0.077	
		5580	20.21	20.24		20.240	0.106	
		5700	18.78	18.78		18.780	0.076	
		5720	20.26	20.23		20.260	0.106	
	3	5745	20.32	20.21		20.320	0.108	< 1 W (30 dBm)
		5785	20.33	20.27		20.330	0.108	
		5825	20.31	20.21		20.310	0.107	

Note: The results have been included cable loss.

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Mode	U-NII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11n-HT20	1	5180	16.61	16.36	N/A	19.497	0.089	< 250 mW (24 dBm)
		5200	18.21	18.02		21.126	0.130	
		5240	18.18	18.10		21.150	0.130	
	2A	5260	18.25	18.22		21.245	0.133	
		5300	18.29	18.14		21.226	0.133	
		5320	16.88	16.73		19.816	0.096	
	2C	5500	18.18	18.15		21.175	0.131	
		5580	18.23	18.00		21.127	0.130	
		5700	18.11	18.03		21.080	0.128	
		5720	18.22	18.04		21.141	0.130	
	3	5745	20.12	19.98		23.061	0.202	< 1 W (30 dBm)
		5785	20.14	19.96		23.061	0.202	
		5825	20.12	20.00		23.071	0.203	
802.11n-HT40	1	5190	15.03	15.25	N/A	18.152	0.065	< 250 mW (24 dBm)
		5230	19.65	19.58		22.625	0.183	
	2A	5270	18.10	18.12		21.120	0.129	
		5310	14.62	14.73		17.686	0.059	
	2C	5510	14.98	14.89		17.946	0.062	
		5550	20.56	20.59		23.585	0.228	
		5670	18.05	18.11		21.090	0.129	
	3	5710	20.58	20.57		23.585	0.228	< 1 W (30 dBm)
		5755	20.43	20.13		23.293	0.213	
		5795	20.75	20.46		23.618	0.230	
802.11ac-VHT80	1	5210	13.36	13.47	N/A	16.426	0.044	< 250 mW (24 dBm)
	2A	5290	13.33	13.46		16.406	0.044	
	2C	5530	13.22	13.10		16.171	0.041	
		5610	18.15	17.97		21.071	0.128	
	3	5690	19.01	19.22		22.127	0.163	< 1 W (30 dBm)
		5775	16.43	16.95		19.708	0.093	
	3	5775	16.43	16.95		19.708	0.093	
802.11ac-VHT160	1/2A	5250	12.12	11.79	N/A	14.968	0.031	< 250 mW (24 dBm)
	2C	5570	12.88	12.86		15.880	0.039	

Note: The results have been included cable loss.

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Mode	U-NII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE20	1	5180	16.84	16.51	N/A	19.688	0.093	< 250 mW (24 dBm)
		5200	18.32	18.17		21.256	0.134	
		5240	18.28	18.16		21.231	0.133	
	2A	5260	18.34	18.26		21.310	0.135	
		5300	18.40	18.18		21.302	0.135	
		5320	16.98	16.76		19.882	0.097	
	2C	5500	18.28	18.22		21.260	0.134	
		5580	18.32	18.02		21.183	0.131	
		5700	16.41	16.11		19.273	0.085	
		5720	18.35	18.06		21.218	0.132	
	3	5745	20.31	19.95		23.144	0.206	< 1 W (30 dBm)
		5785	20.29	20.02		23.167	0.207	
		5825	20.22	19.89		23.068	0.203	
802.11ax-HE40	1	5190	14.78	14.89	N/A	17.846	0.061	< 250 mW (24 dBm)
		5230	19.41	19.26		22.346	0.172	
	2A	5270	17.97	17.85		20.921	0.124	
		5310	14.36	14.43		17.405	0.055	
	2C	5510	14.85	14.67		17.771	0.060	
		5550	20.28	20.27		23.285	0.213	
		5670	18.27	18.26		21.275	0.134	
		5710	20.34	20.22		23.291	0.213	
	3	5755	20.12	19.84		22.993	0.199	< 1 W (30 dBm)
		5795	20.49	20.20		23.358	0.217	
802.11ax-HE80	1	5210	13.29	13.20	N/A	16.256	0.042	< 250 mW (24 dBm)
	2A	5290	13.30	13.18		16.251	0.042	
	2C	5530	13.33	13.01		16.183	0.042	
		5610	18.04	17.76		20.913	0.123	
		5690	19.02	18.99		22.015	0.159	< 1 W (30 dBm)
	3	5775	16.96	16.70		19.842	0.096	
802.11ax-HE160	1/2A	5250	11.93	11.59	N/A	14.774	0.030	< 250 mW (24 dBm)
	2C	5570	12.67	12.63		15.660	0.037	

Note: The results have been included cable loss.

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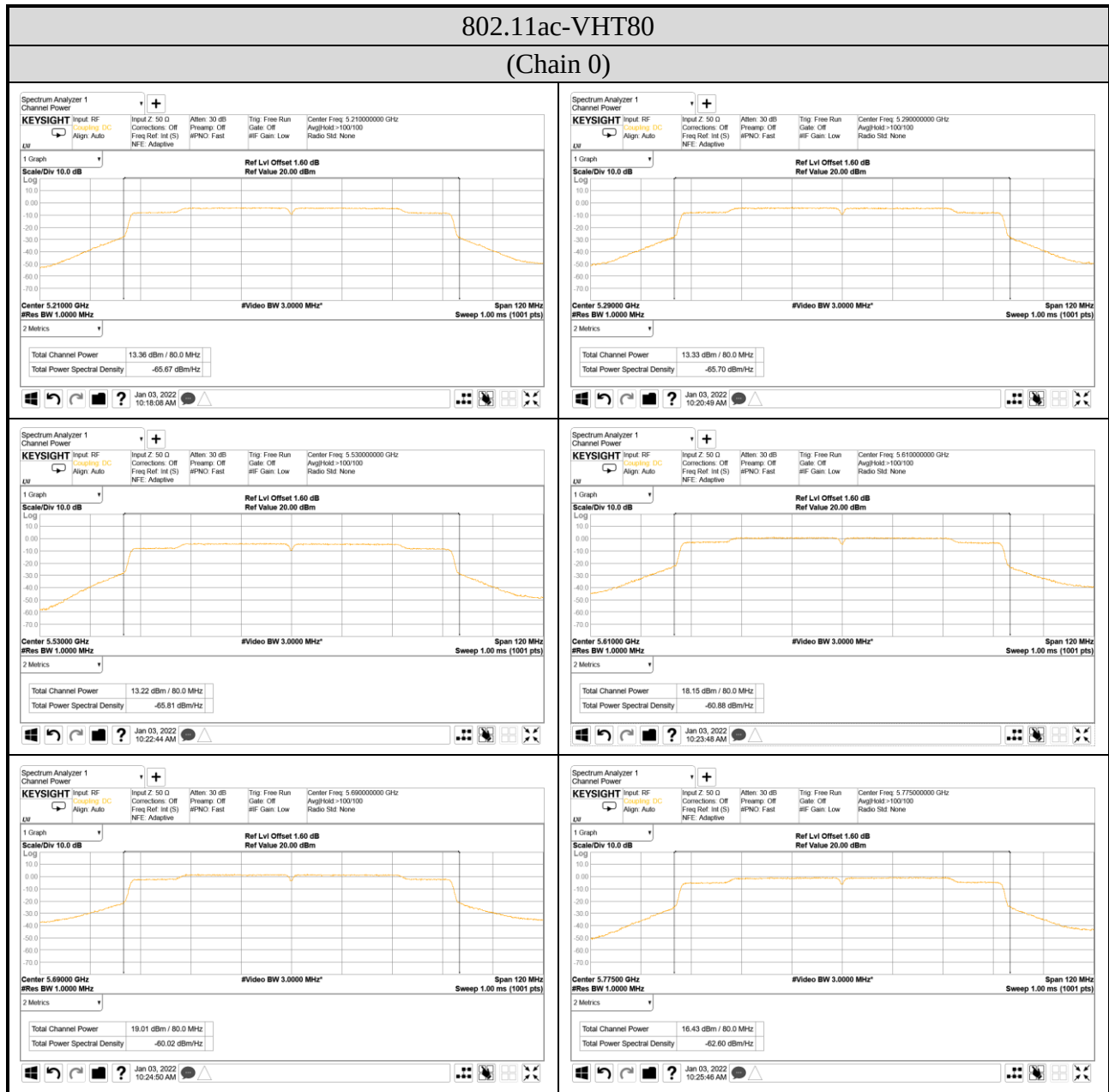
Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
				Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE20	1	5180	26/0	9.96	10.24	N/A	13.113	0.020	< 250 mW (24 dBm)
			52/37	13.46	13.52		16.500	0.045	
			106/53	16.49	16.00		19.262	0.084	
	2A	5320	26/8	10.27	10.51		13.402	0.022	
			52/40	13.31	13.64		16.488	0.045	
			106/54	15.15	15.45		18.313	0.068	
	2C	5500	26/0	10.10	10.25		13.186	0.021	
			52/37	13.51	13.50		16.515	0.045	
			106/53	15.83	15.88		18.865	0.077	
		5700	26/8	10.24	10.23		13.245	0.021	
			52/40	13.62	13.46		16.551	0.045	
			106/54	16.25	16.18		19.225	0.084	
	3	5745	26/0	15.16	15.08		18.130	0.065	< 1 W (30 dBm)
			52/37	13.52	13.43		16.486	0.045	
			106/53	17.44	17.20		20.332	0.108	
		5825	26/8	17.01	16.89		19.961	0.099	
			52/40	13.61	13.50		16.566	0.045	
			106/54	17.35	17.16		20.266	0.106	
802.11ax-HE40	1	5190	242/61	16.43	16.16	N/A	19.307	0.085	< 250 mW (24 dBm)
	2A	5310	242/62	16.49	16.30		19.406	0.087	
	2C	5510	242/61	17.66	17.75		20.716	0.118	
		5670	242/62	18.23	18.19		21.220	0.132	< 1 W (30 dBm)
	3	5755	242/61	19.72	19.57		22.656	0.184	
		5795	242/62	20.23	20.13		23.191	0.208	
802.11ax-HE80	1	5210	484/65	14.67	14.85	N/A	17.771	0.060	< 250 mW (24 dBm)
	2A	5290	484/66	12.53	12.67		15.611	0.036	
	2C	5530	484/65	15.08	15.02		18.060	0.064	
		5610	484/66	18.63	18.64		21.645	0.146	< 1 W (30 dBm)
	3	5775	484/65	18.66	18.41		21.547	0.143	
			484/66	20.35	20.17		23.271	0.212	
802.11ax-HE160	1/2A	5250	996/67	12.98	12.86	N/A	15.931	0.039	< 250 mW (24 dBm)
			996/S67	12.69	12.57		15.641	0.037	
	2C	5570	996/67	12.90	12.63		15.777	0.038	
			996/S67	16.79	16.50		19.658	0.092	

Note: The results have been included cable loss.

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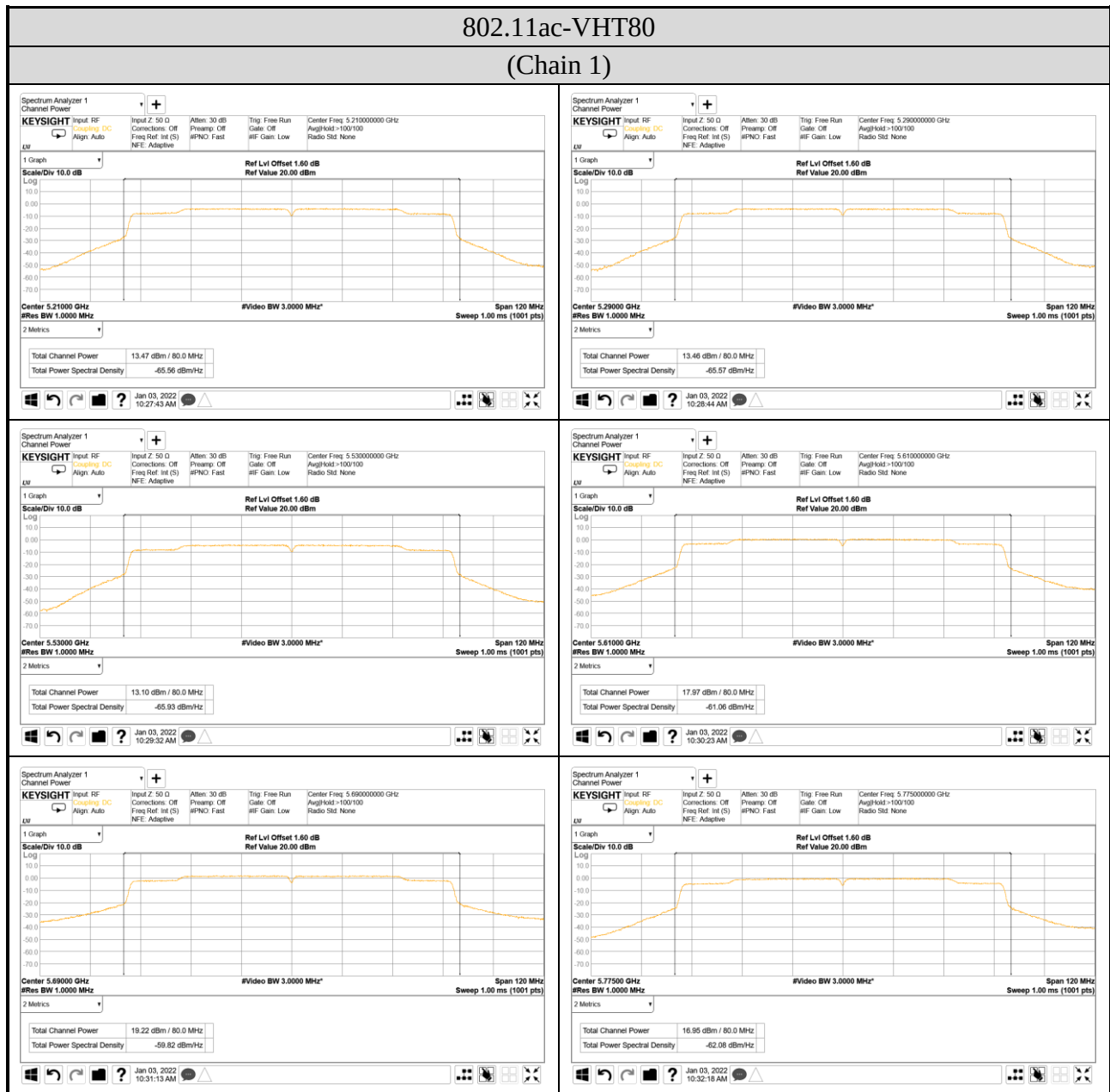
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A.4.2 Measurement Plots



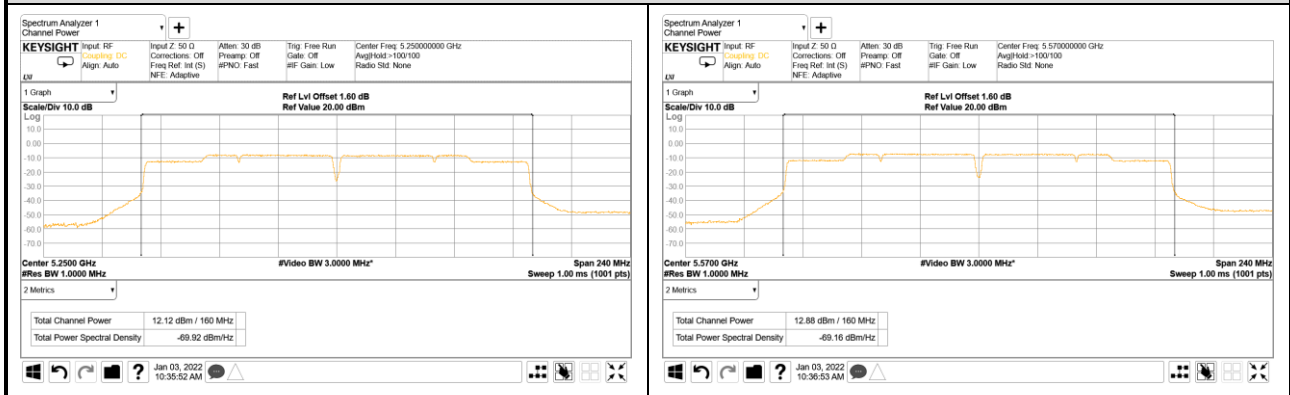
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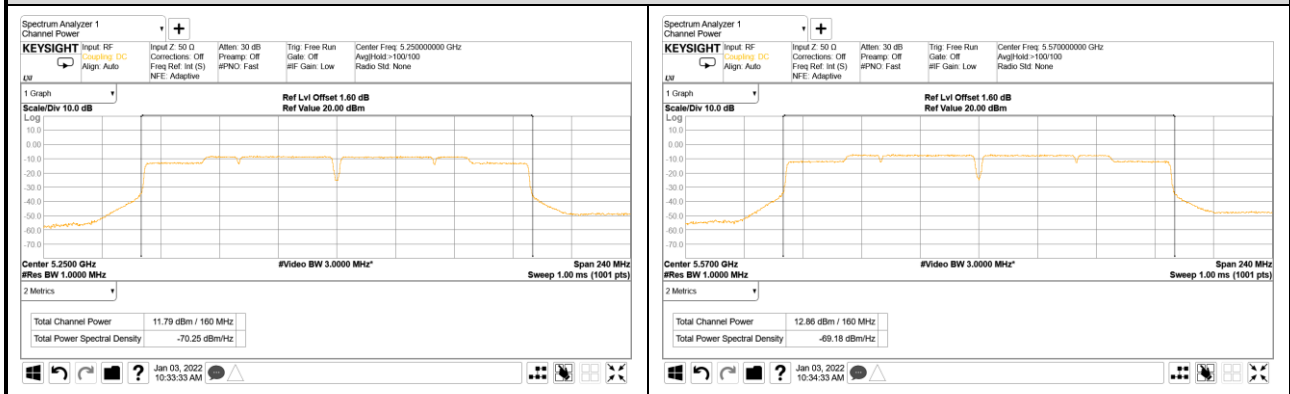
802.11ac-VHT160

(Chain 0)



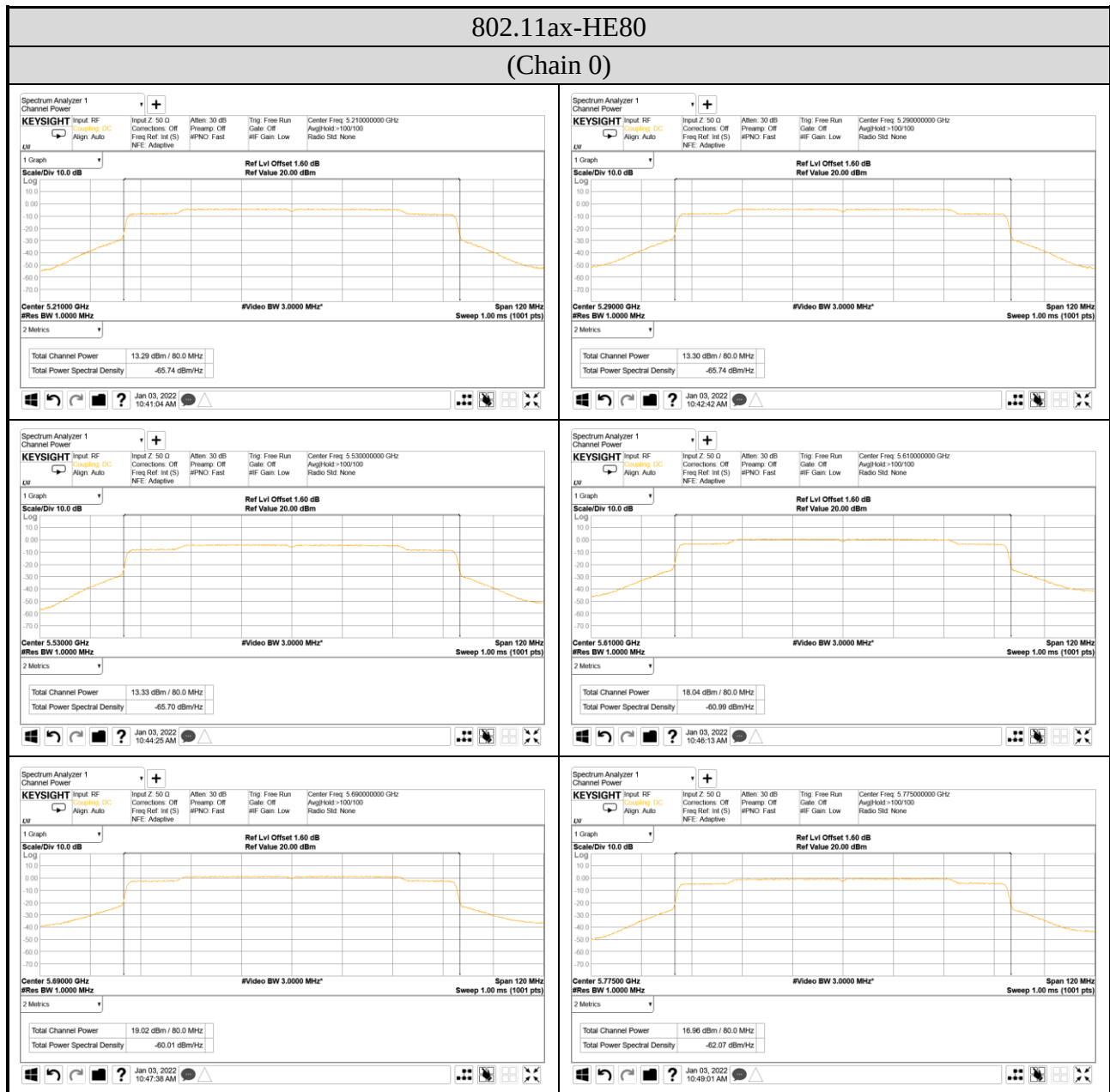
802.11ac-VHT160

(Chain 1)



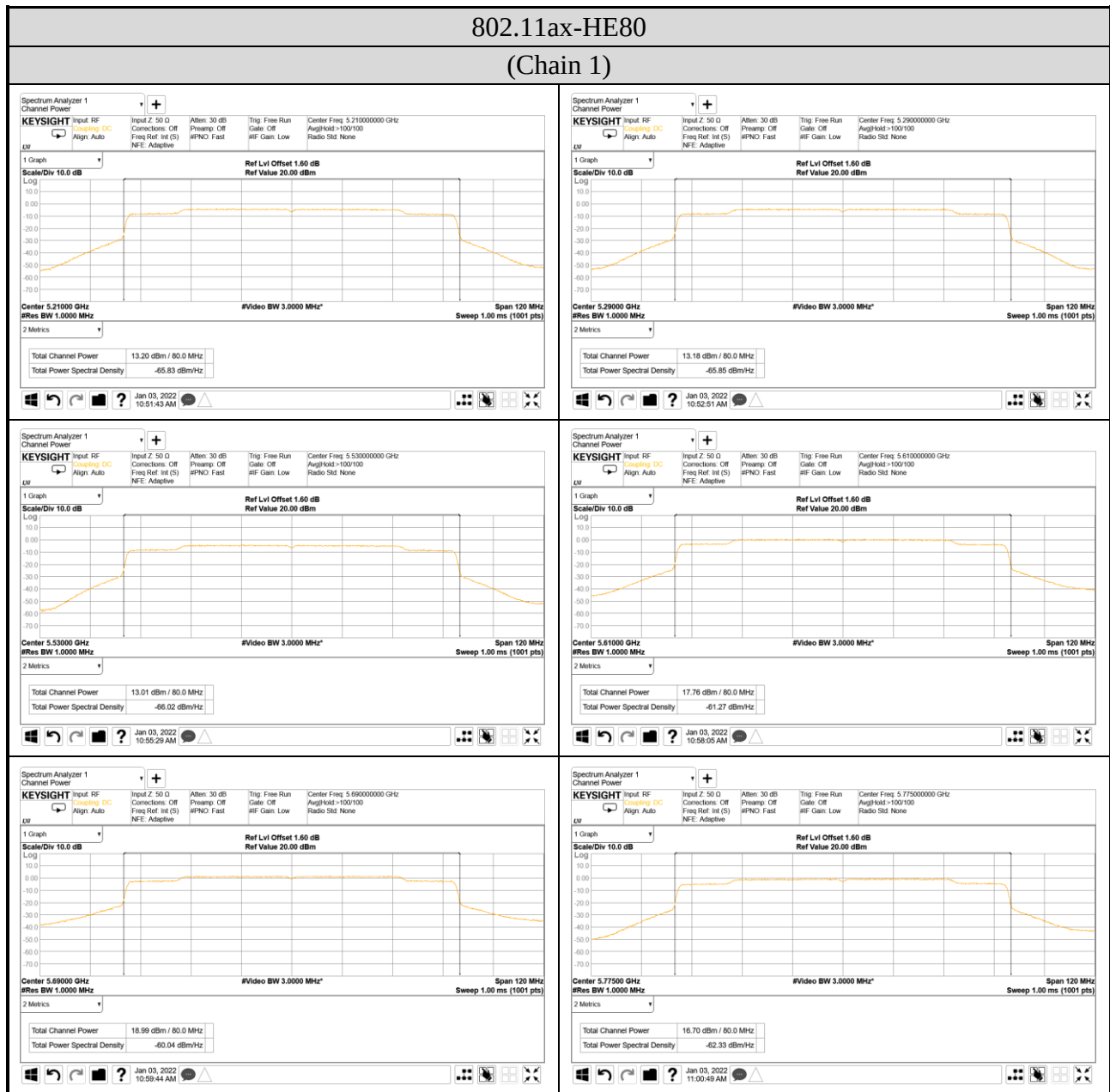
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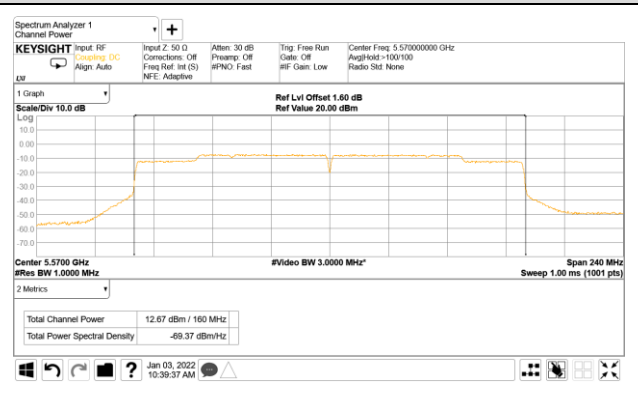
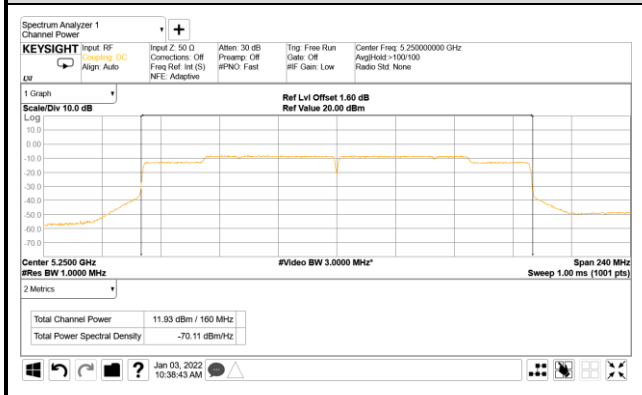


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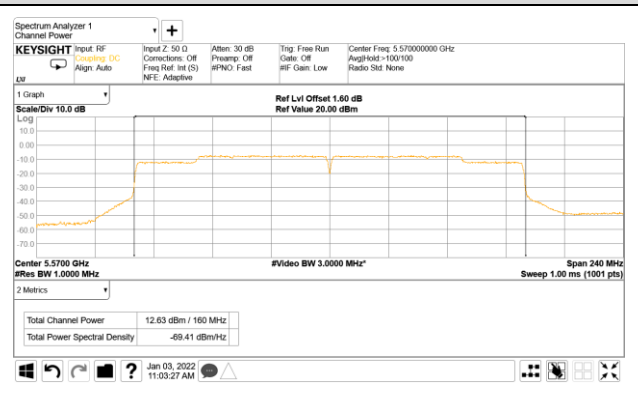
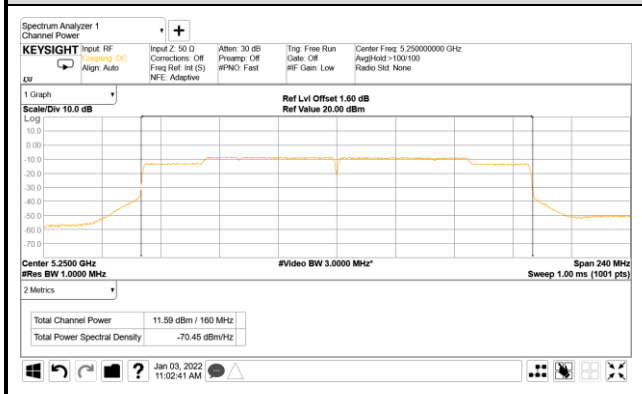
802.11ax-HE160

(Chain 0)



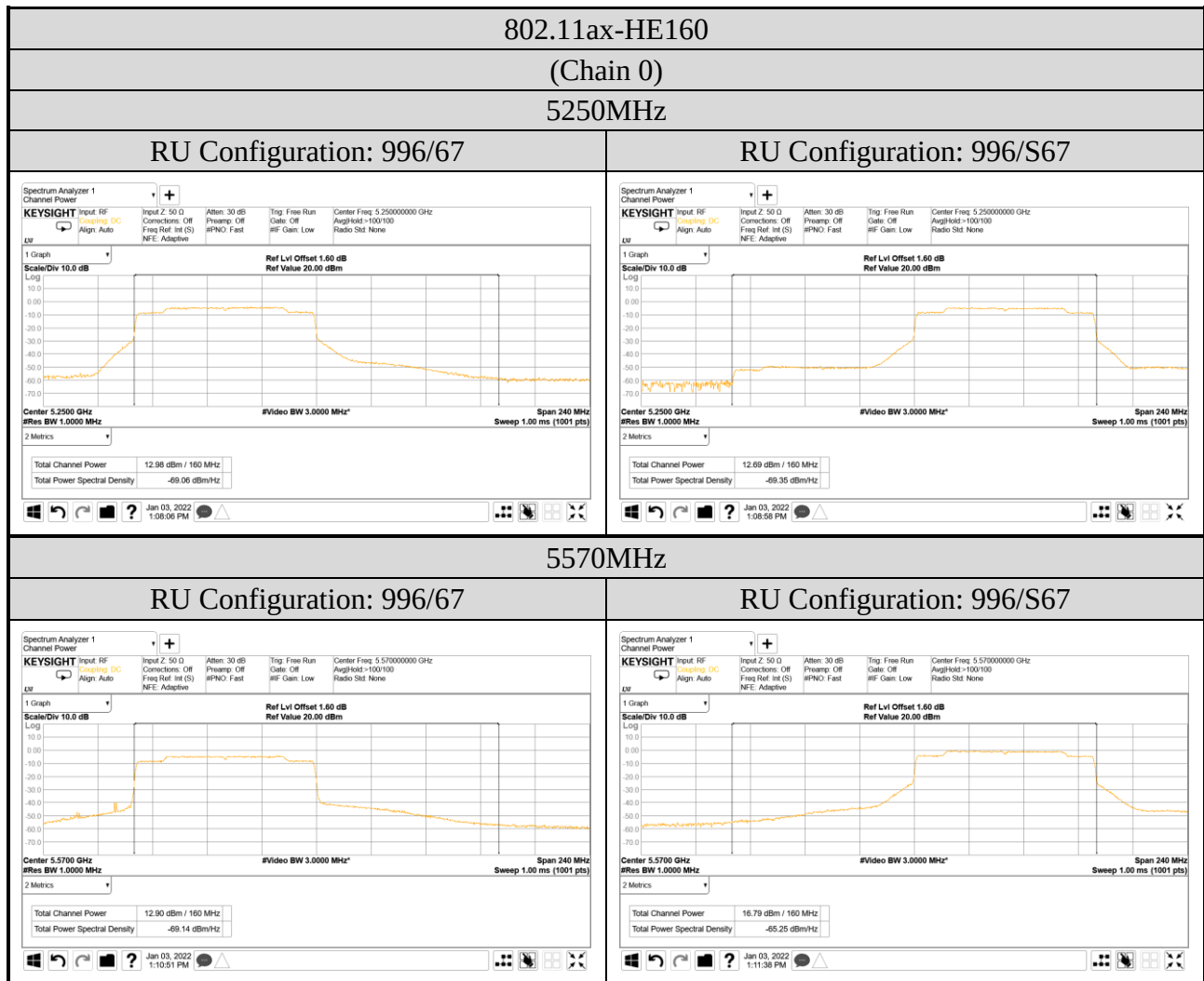
802.11ax-HE160

(Chain 1)



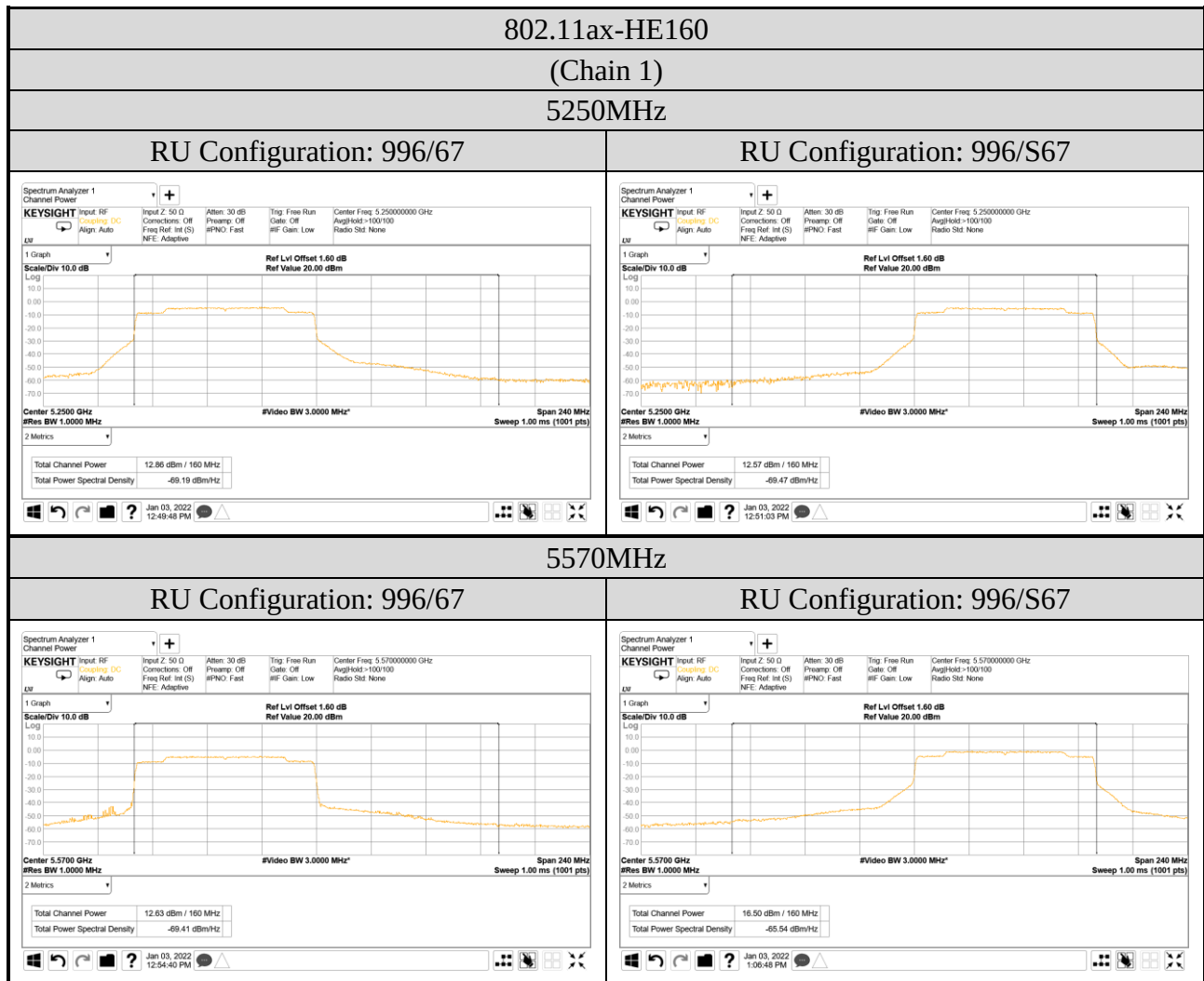
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A.5 POWER SPECTRAL DENSITY

Test Date	2021/12/29 ~ 2022/01/02	Temp./Hum.	15~18℃/61~68%
Cable Loss	1.60dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		
Simultaneous Factor 10 log(n)(Note: “n” is antenna number)		802.11a: 0dB 802.11n-HT20/40: 3dB 802.11ac-VHT80/160: 3dB 802.11ax-HE20/40/80/160: 3dB	

A.5.1 Power Spectral Density Result

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)	Limit
802.11a	1	5180	7.194	11dBm/MHz
		5200	8.921	
		5240	8.739	
	2A	5260	8.442	
		5300	8.398	
		5320	6.198	
	2C	5500	7.682	
		5580	8.939	
		5700	6.935	
		5720	8.402	
	3 ^{Note2}	5745	6.407	30dBm/500 kHz
		5785	7.008	
		5825	6.510	

Note 1: All results have been included cable loss and Simultaneous Factor and correct duty factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)	Limit
802.11n-HT20	1	5180	7.989	11 dBm/MHz
		5200	9.376	
		5240	9.256	
	2A	5260	9.017	
		5300	8.813	
		5320	7.453	
	2C	5500	9.601	
		5580	9.484	
		5700	9.055	
		5720	9.205	
	3 ^{Note2}	5745	9.453	30dBm/500 kHz
		5785	9.200	
		5825	9.848	
802.11n-HT40	1	5190	3.621	11 dBm/MHz
		5230	7.706	
	2A	5270	5.749	
		5310	2.035	
	2C	5510	3.498	
		5550	9.222	
		5670	5.835	
		5710	8.517	
	3 ^{Note2}	5755	6.037	30dBm/500 kHz
		5795	6.173	
802.11ac-VHT80	1	5210	-0.282	11 dBm/MHz
	2A	5290	-0.456	
	2C	5530	-0.369	
		5610	4.316	
		5690	5.165	
	3 ^{Note2}	5775	0.188	30dBm/500 kHz
802.11ac-VHT160	1/2A	5250	-4.948	11 dBm/MHz
	2C	5570	-4.195	

Note 1: All results have been included cable loss and Simultaneous Factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/MHz)	Limit
802.11ax-HE20	1	5180	8.013	11 dBm/MHz
		5200	9.659	
		5240	9.115	
	2A	5260	9.223	
		5300	8.952	
		5320	7.356	
	2C	5500	9.785	
		5580	9.484	
		5700	7.130	
		5720	9.200	
	3 ^{Note2}	5745	8.269	30dBm/500 kHz
		5785	8.281	
		5825	8.422	
802.11ax-HE40	1	5190	3.048	11 dBm/MHz
		5230	7.454	
	2A	5270	5.436	
		5310	1.611	
	2C	5510	3.310	
		5550	8.839	
		5670	3.028	
		5710	7.888	
	3 ^{Note2}	5755	4.724	30dBm/500 kHz
		5795	5.113	
802.11ax-HE80	1	5210	-0.463	11 dBm/MHz
	2A	5290	-0.622	
	2C	5530	-0.740	
		5610	3.974	
		5690	4.793	
	3 ^{Note2}	5775	-0.627	30dBm/500 kHz
802.11ax-HE160	1/2A	5250	-5.156	11 dBm/MHz
	2C	5570	-4.397	

Note 1: All results have been included cable loss and Simultaneous Factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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Mode	U-NII Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm/MHz)	Limit
802.11ax-HE20	1	5180	26/0	9.576	11 dBm/MHz
			52/37	10.360	
			106/53	10.019	
	2A	5320	26/8	8.952	
			52/40	9.524	
			106/54	8.459	
	2C	5500	26/0	9.902	
			52/37	10.550	
			106/53	10.212	
		5700	26/8	8.943	
			52/40	9.496	
			106/54	9.264	
	3 ^{Note2}	5745	26/0	11.239	30dBm/500 kHz
			52/37	6.873	
			106/53	7.455	
		5825	26/8	12.756	
			52/40	7.167	
			106/54	7.619	
802.11ax-HE40	1	5190	242/61	7.859	11 dBm/MHz
	2A	5310	242/62	6.658	
	2C	5510	242/61	9.127	
		5670	242/62	9.042	
	3 ^{Note2}	5755	242/61	7.331	30dBm/500 kHz
		5795	242/62	7.746	
802.11ax-HE80	1	5210	484/65	2.567	11 dBm/MHz
	2A	5290	484/66	-0.701	
	2C	5530	484/65	3.317	
		5610	484/66	6.397	
	3 ^{Note2}	5775	484/65	3.228	30dBm/500 kHz
			484/66	4.871	
802.11ax-HE160	1/2A	5250	996/67	-1.254	11 dBm/MHz
			996/S67	-1.718	
	2C	5570	996/67	-1.326	
			996/S67	2.481	

Note 1: All results have been included cable loss and Simultaneous Factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.