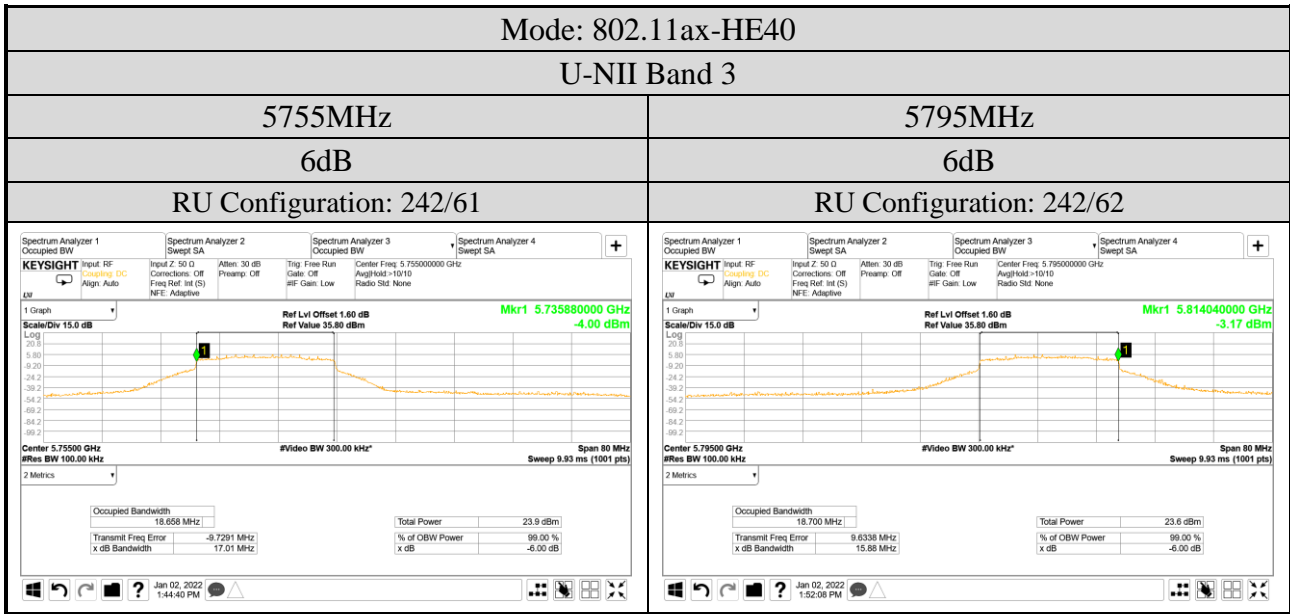
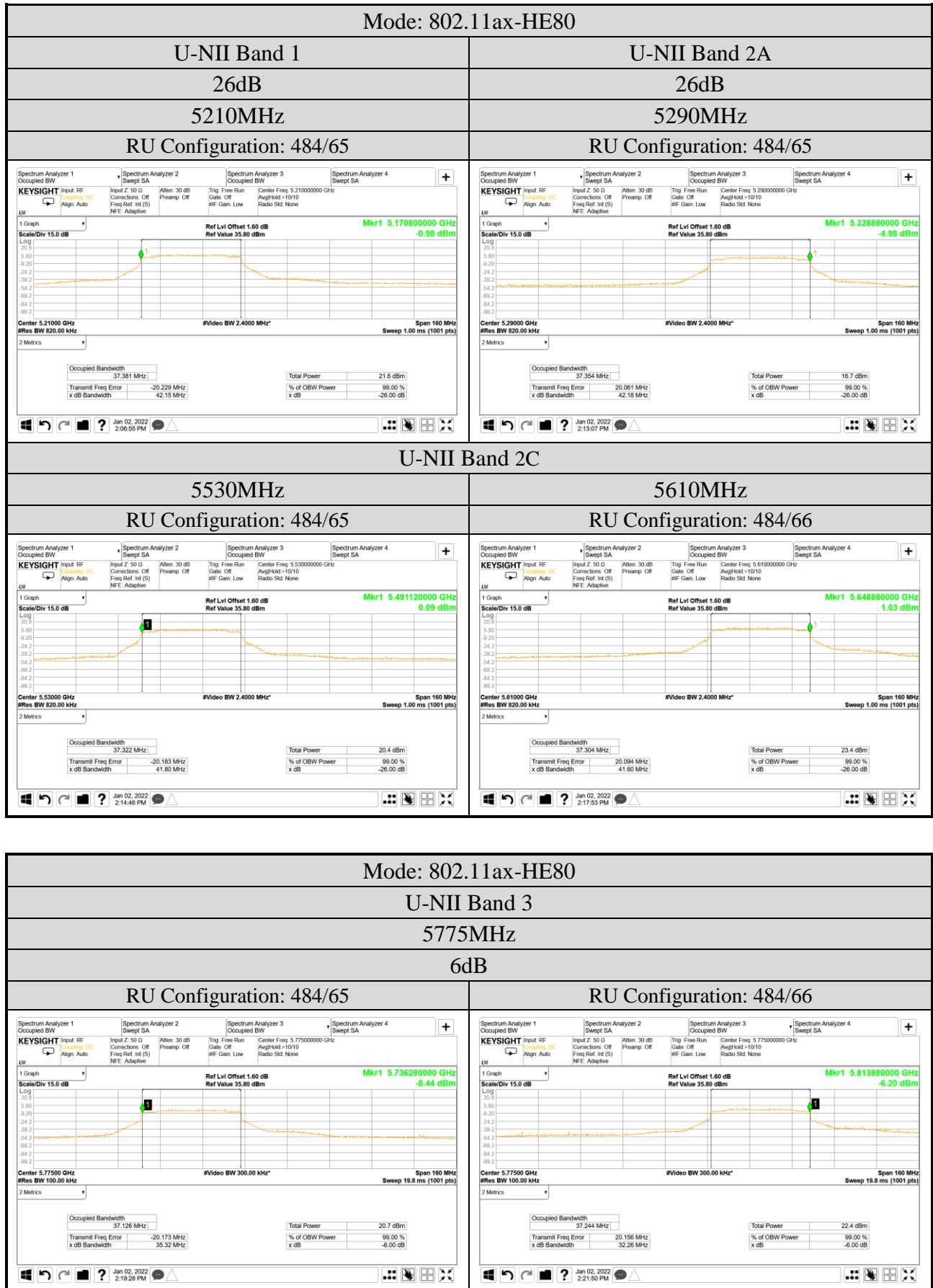
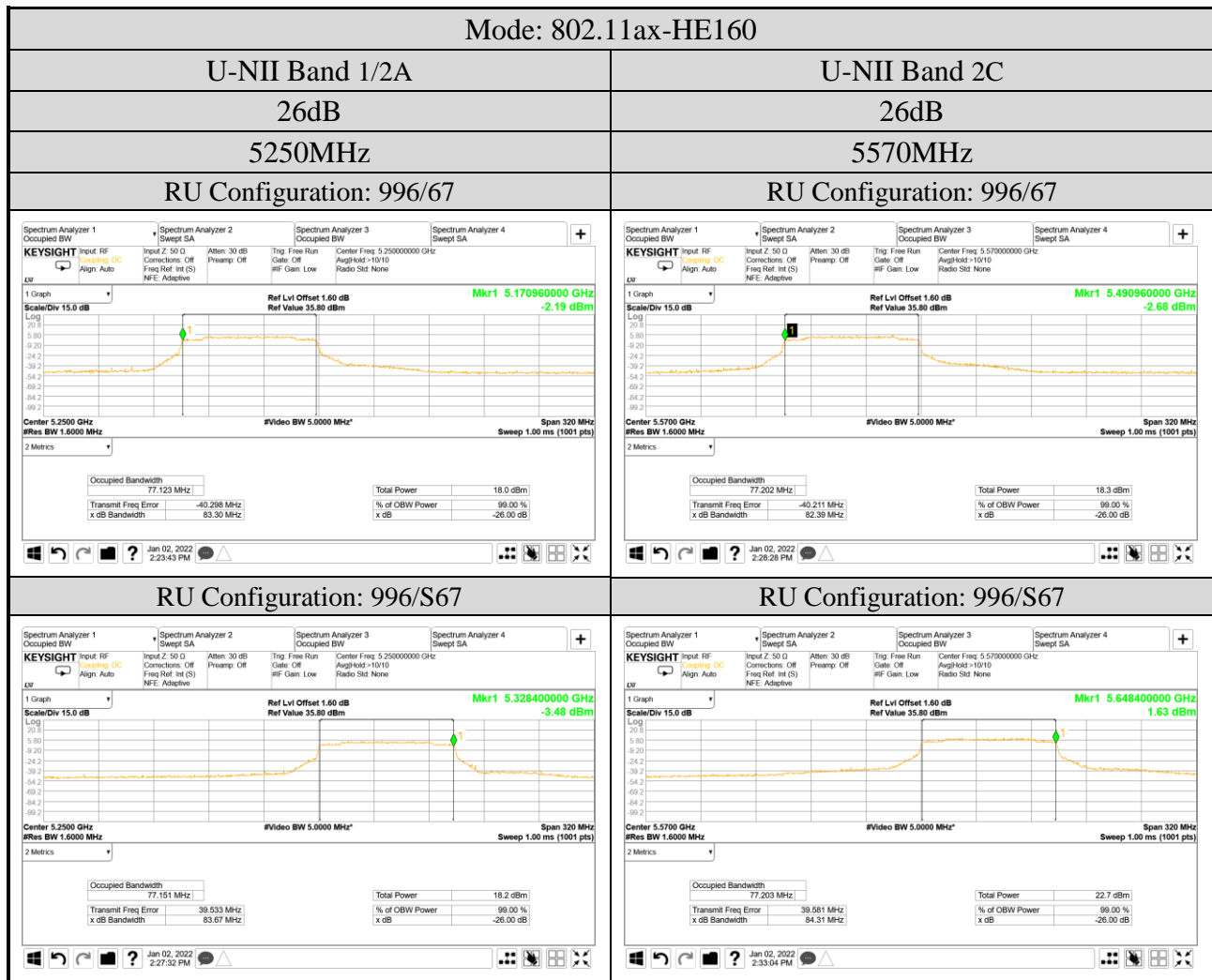


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## A.4 MAXIMUM OUTPUT POWER

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		<b>20.370</b>	<b>0.109</b>	
	2A	5260	20.41	20.48		<b>20.480</b>	<b>0.112</b>	
		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		<b>20.240</b>	<b>0.106</b>	
		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		<b>20.330</b>	<b>0.108</b>	
		5825	20.31	20.21		20.310	0.107	

Note: The results have been included cable loss.



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

Note: The results have been included cable loss.

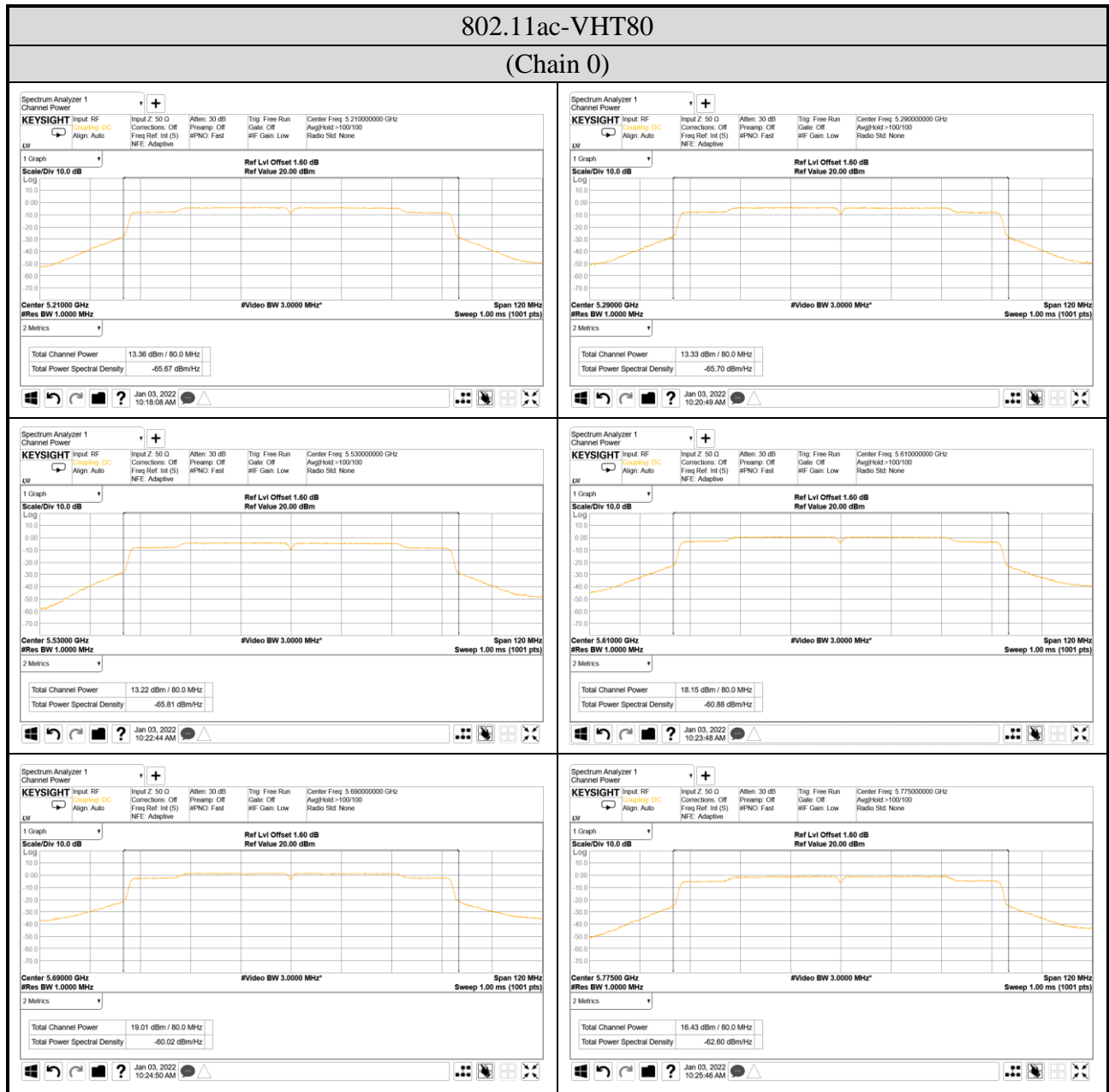
Mode	U-NII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE20	1	5180	16.84	16.51	N/A	19.688	0.093	< 250 mW (24 dBm)
		5200	18.32	18.17		<b>21.256</b>	<b>0.134</b>	
		5240	18.28	18.16		21.231	0.133	
	2A	5260	18.34	18.26		<b>21.310</b>	<b>0.135</b>	
		5300	18.40	18.18		21.302	0.135	
		5320	16.98	16.76		19.882	0.097	
	2C	5500	18.28	18.22		<b>21.260</b>	<b>0.134</b>	
		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		<b>23.167</b>	<b>0.207</b>	
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		<b>22.346</b>	<b>0.172</b>	
	2A	5270	17.97	17.85		<b>20.921</b>	<b>0.124</b>	
		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	
	3	5710	20.34	20.22		<b>23.291</b>	<b>0.213</b>	
		5755	20.12	19.84		22.993	0.199	< 1 W (30 dBm)
	5795	20.49	20.20	<b>23.358</b>		<b>0.217</b>		
802.11ax-HE80	1	5210	13.29	13.20	N/A	<b>16.256</b>	<b>0.042</b>	< 250 mW (24 dBm)
	2A	5290	13.30	13.18		<b>16.251</b>	<b>0.042</b>	
		5530	13.33	13.01		16.183	0.042	
	2C	5610	18.04	17.76		<b>20.913</b>	<b>0.123</b>	
		5690	19.02	18.99		22.015	0.159	
	3	5775	16.96	16.70		<b>19.842</b>	<b>0.096</b>	< 1 W (30 dBm)
802.11ax-HE160	1/2A	5250	11.93	11.59	N/A	<b>14.774</b>	<b>0.030</b>	< 250 mW (24 dBm)
	2C	5570	12.67	12.63		<b>15.660</b>	<b>0.037</b>	

Note: The results have been included cable loss.

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	
			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	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		
	3	5755	242/61	19.72	19.57	22.656	0.184	< 1 W (30 dBm)	
		5795	242/62	20.23	20.13	23.191	0.208		
802.11ax-HE80	1	5210	484/65	14.67	14.85	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		
	3	5775	484/65	18.66	18.41	21.547	0.143	< 1 W (30 dBm)	
			484/66	20.35	20.17	23.271	0.212		
802.11ax-HE160	1/2A	5250	996/67	12.98	12.86	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		

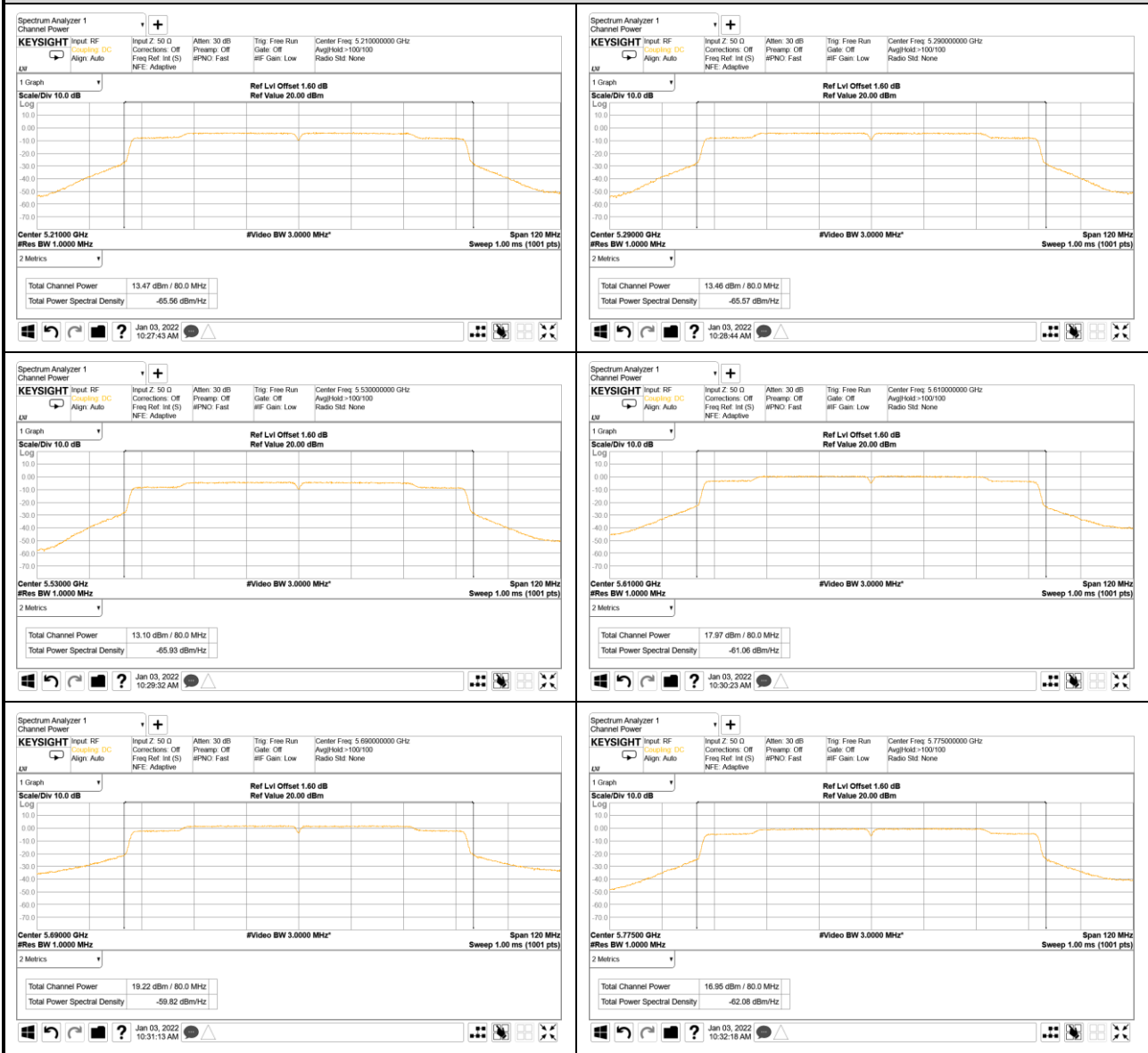
Note: The results have been included cable loss.

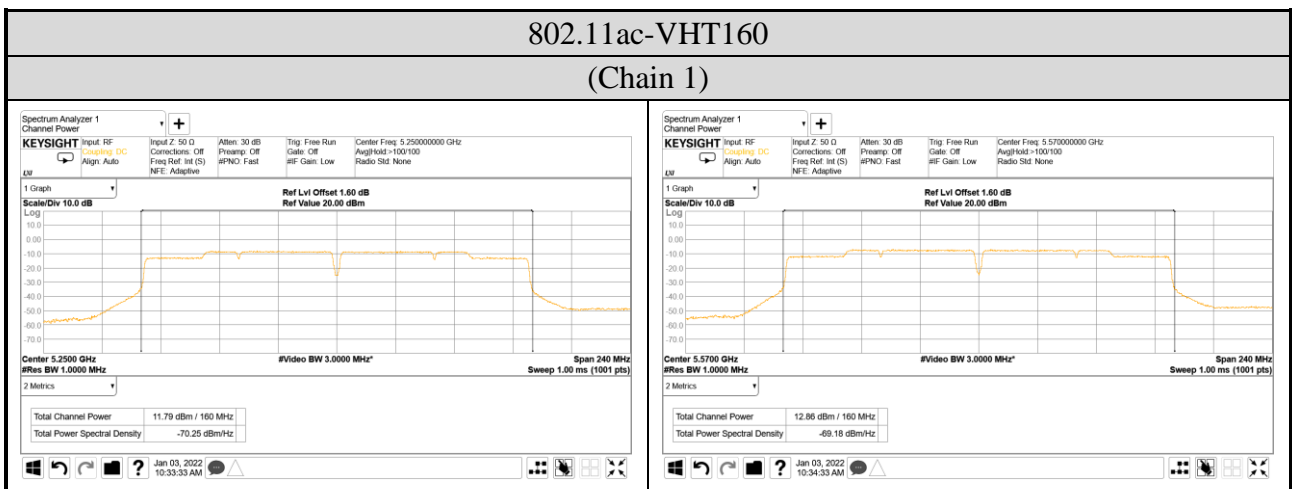
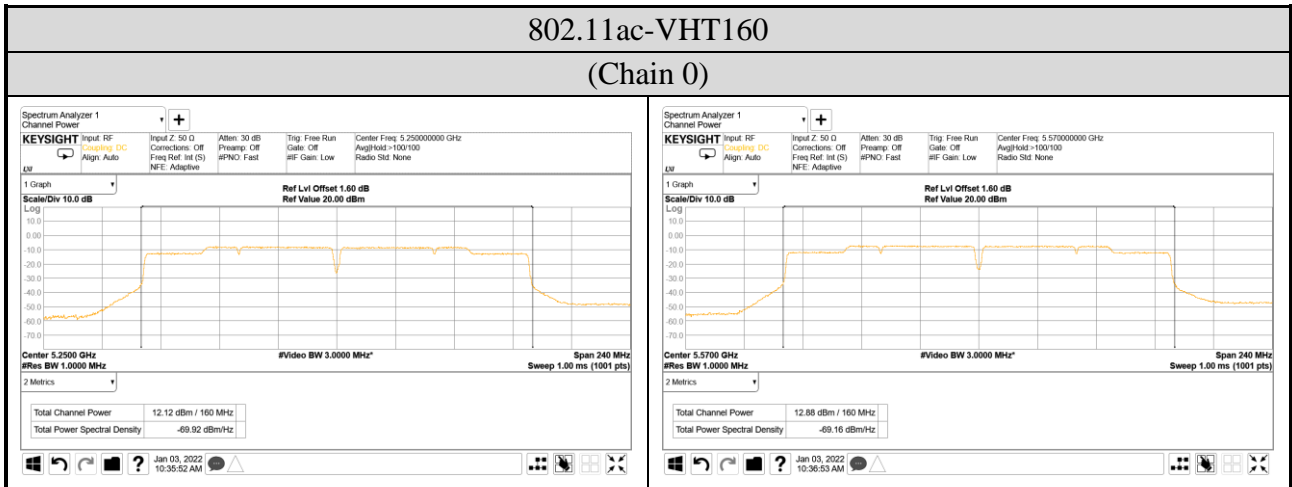
A.4.2 Measurement Plots

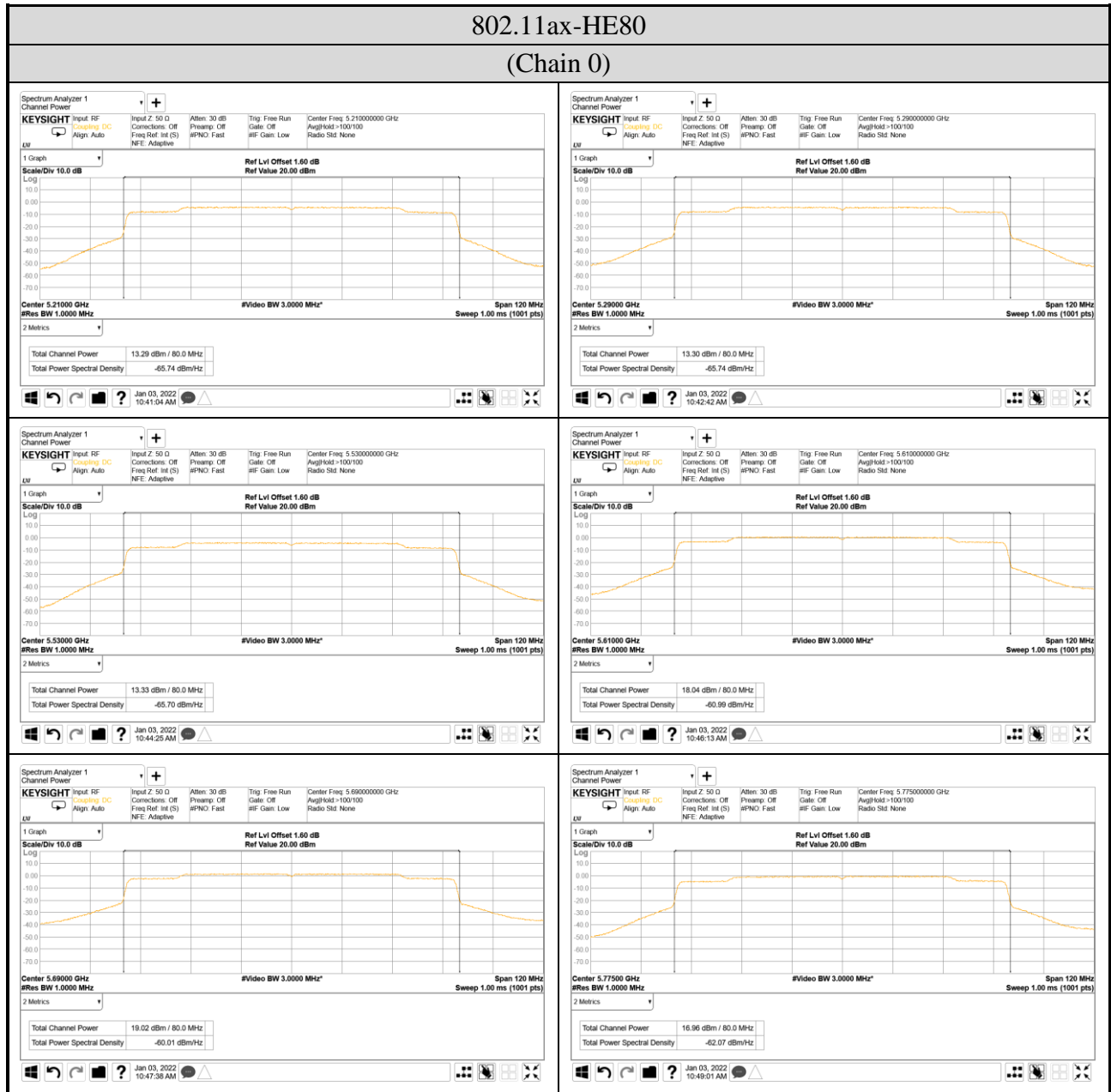


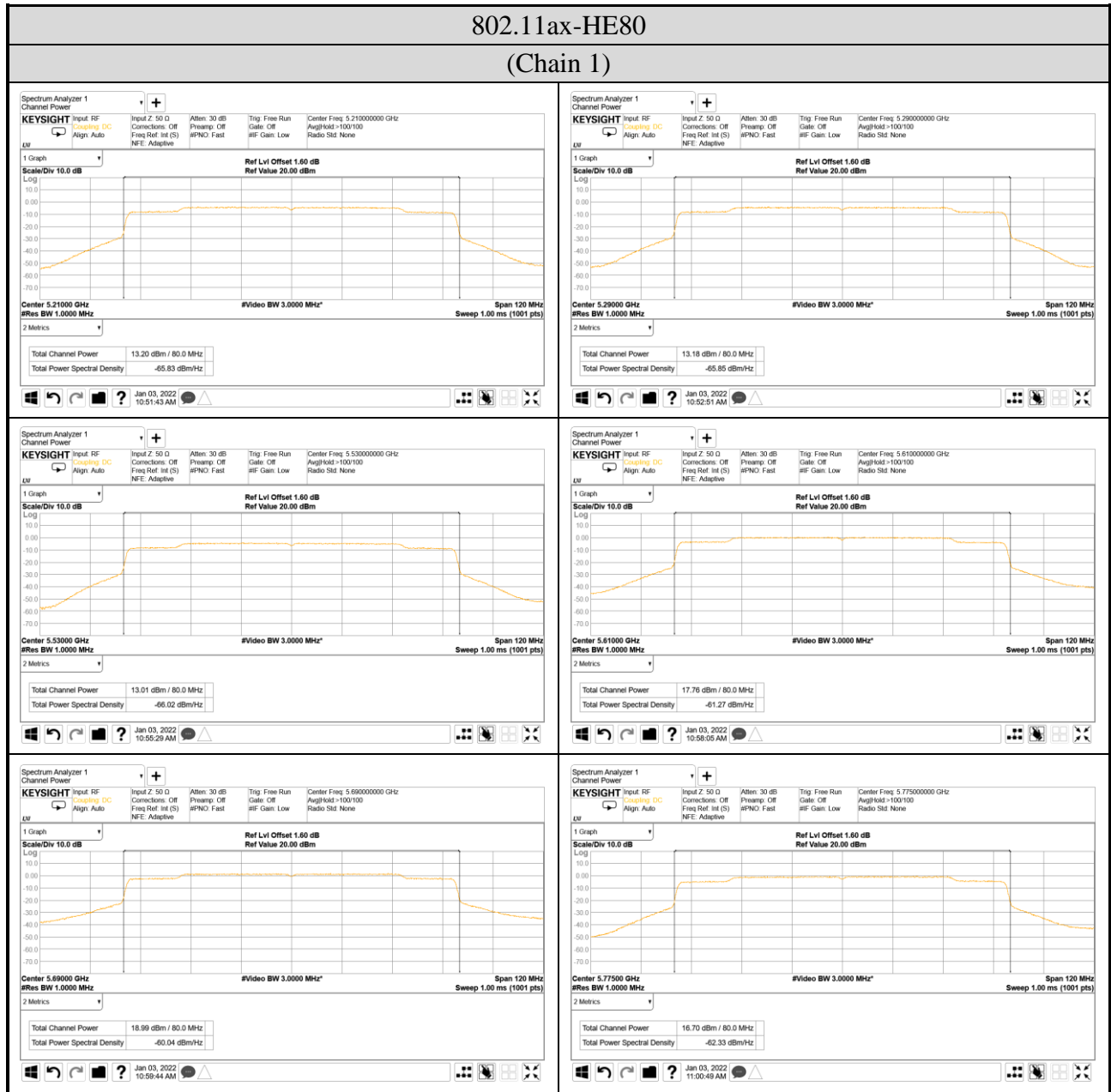
802.11ac-VHT80

(Chain 1)

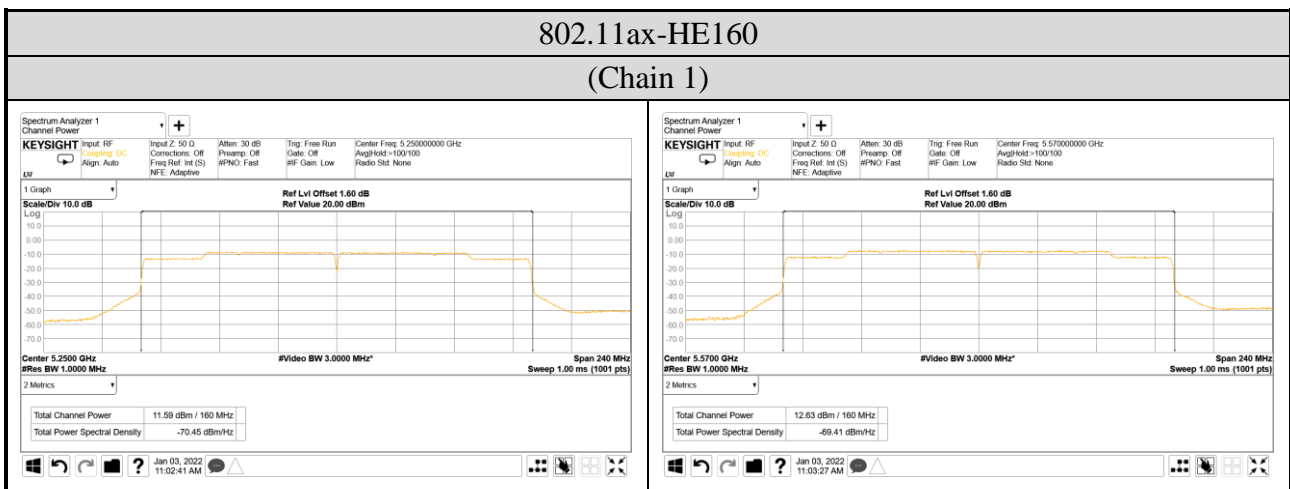
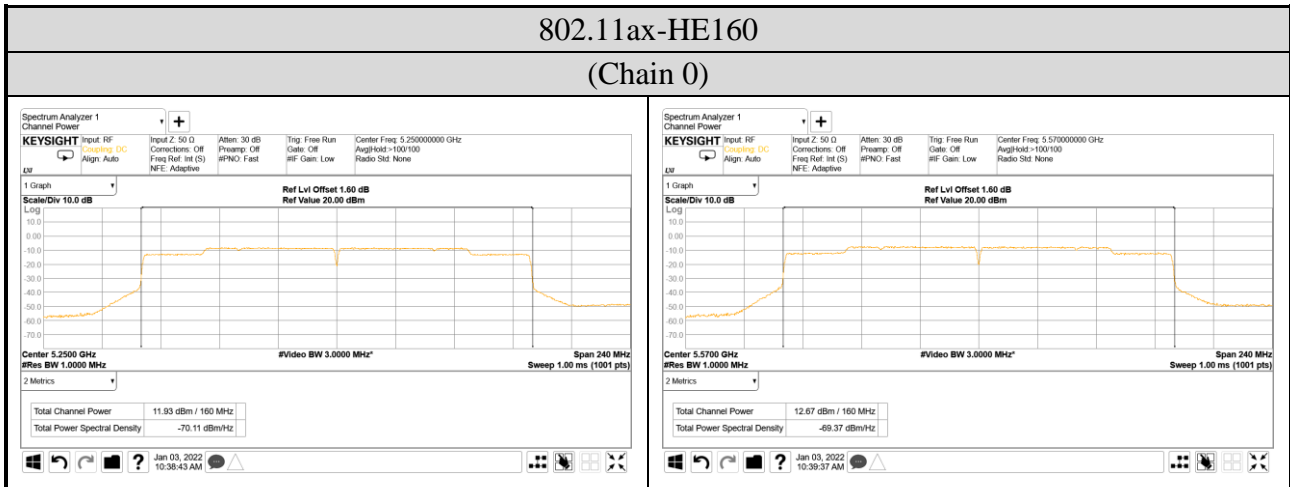


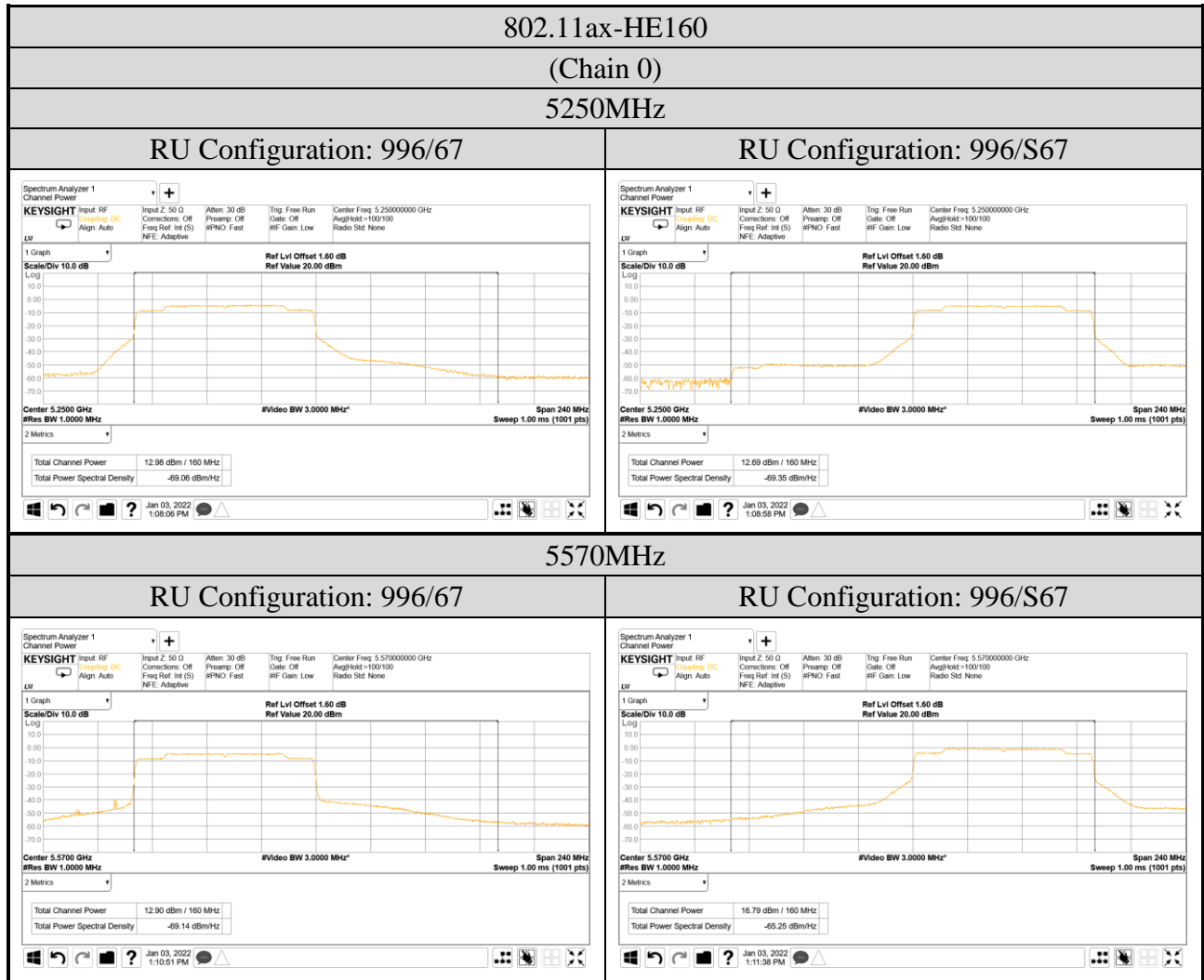






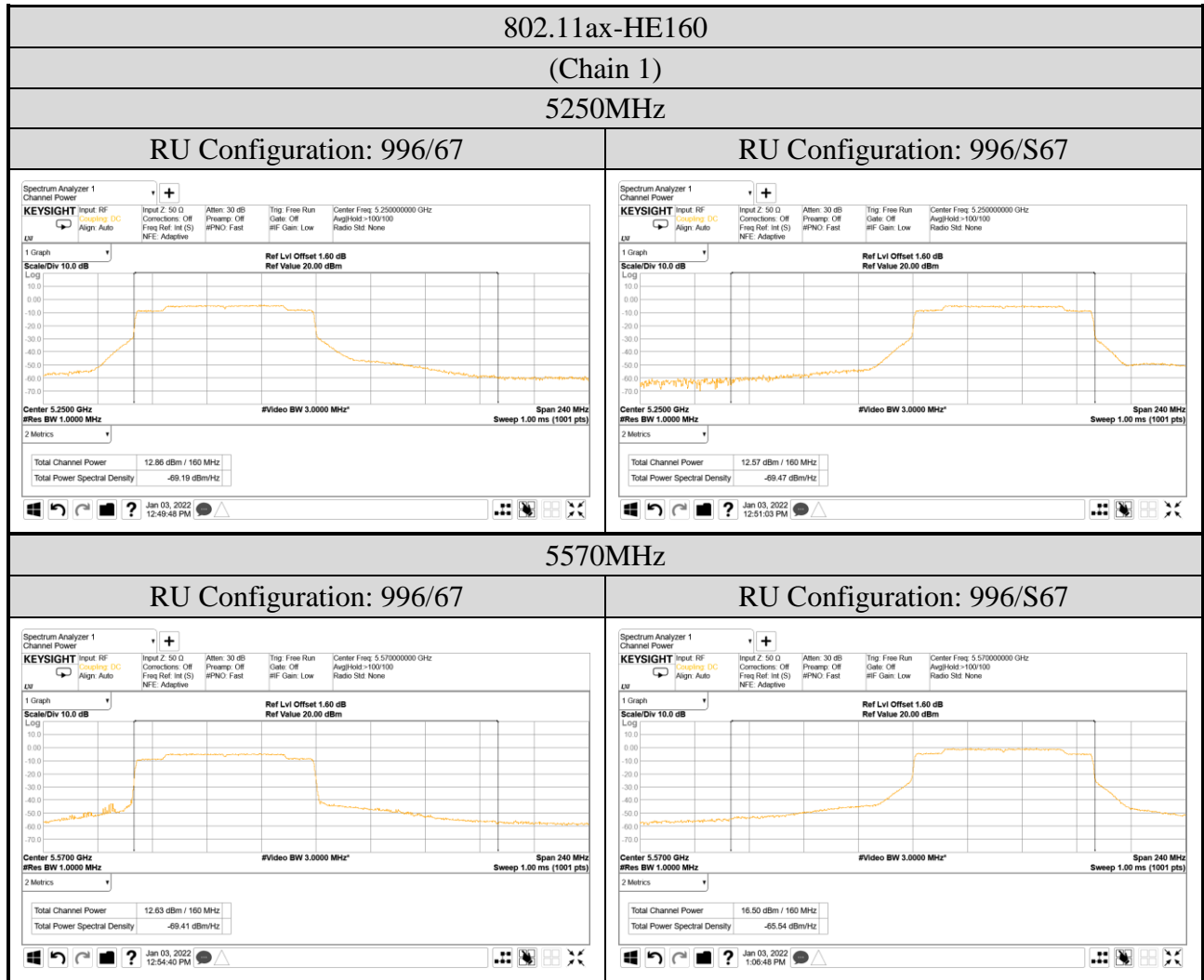






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## A.5 POWER SPECTRAL DENSITY

Test Date	2021/12/29 ~ 2022/01/02	Temp./Hum.	15~18°C/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 <sup>Note2</sup>	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.

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 <sup>Note2</sup>	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 <sup>Note2</sup>	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 <sup>Note2</sup>	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.

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 <sup>Note2</sup>	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 <sup>Note2</sup>	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 <sup>Note2</sup>	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.

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 <sup>Note2</sup>	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 <sup>Note2</sup>	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 <sup>Note2</sup>	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.