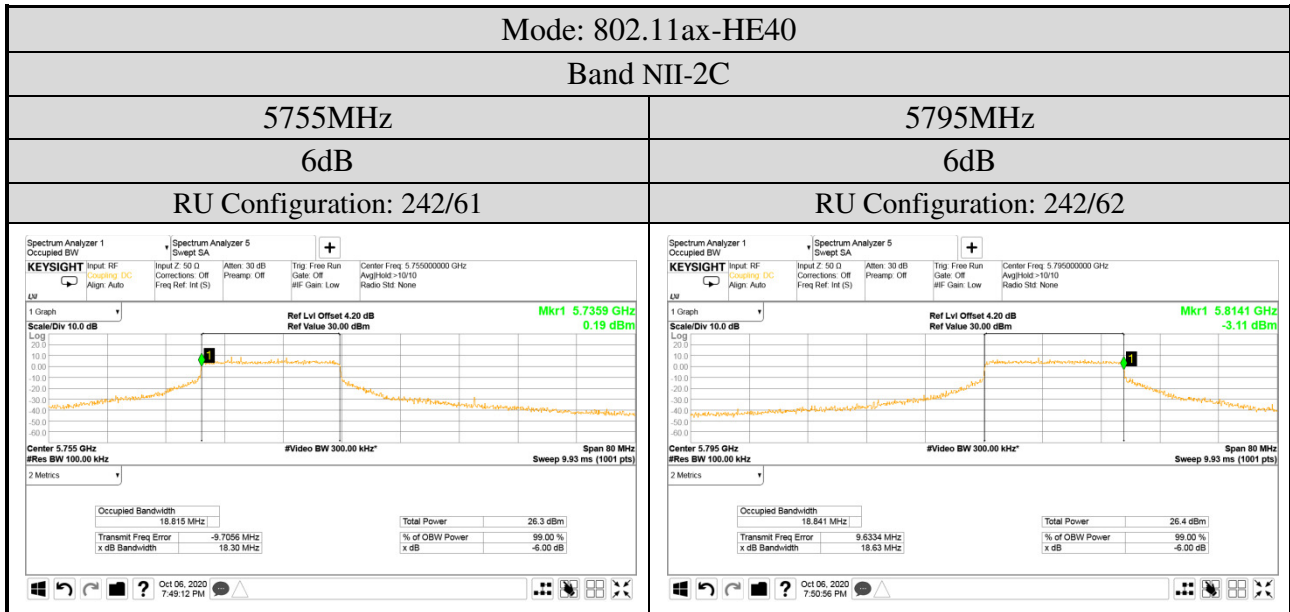
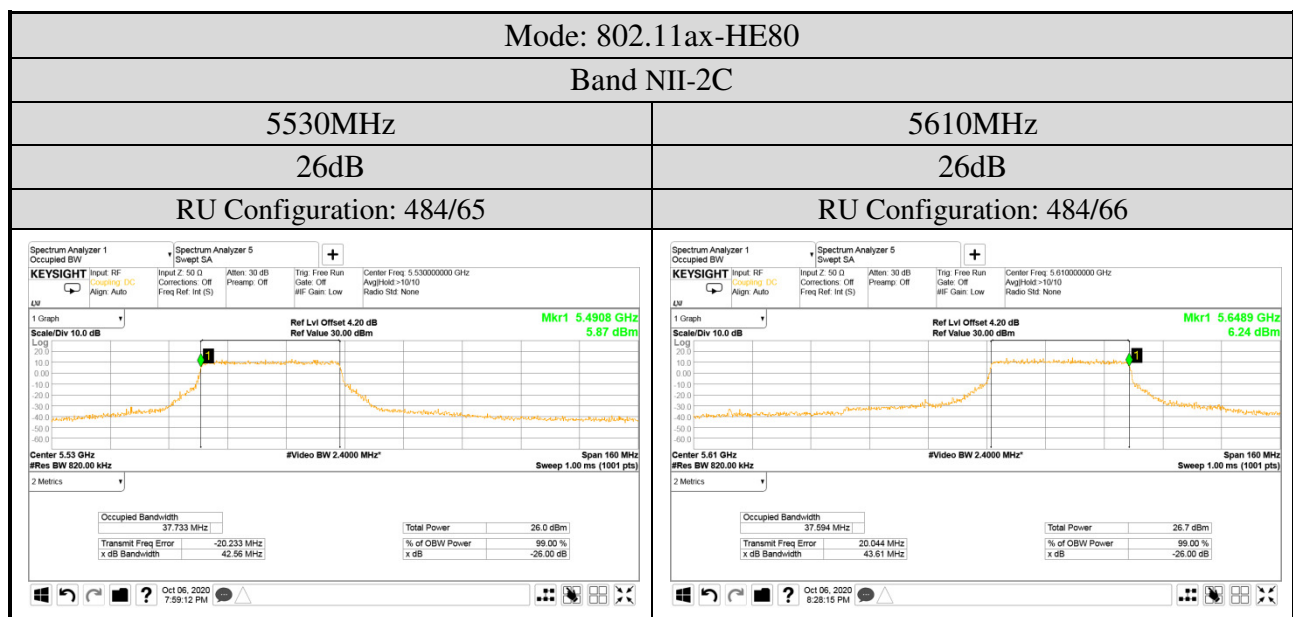
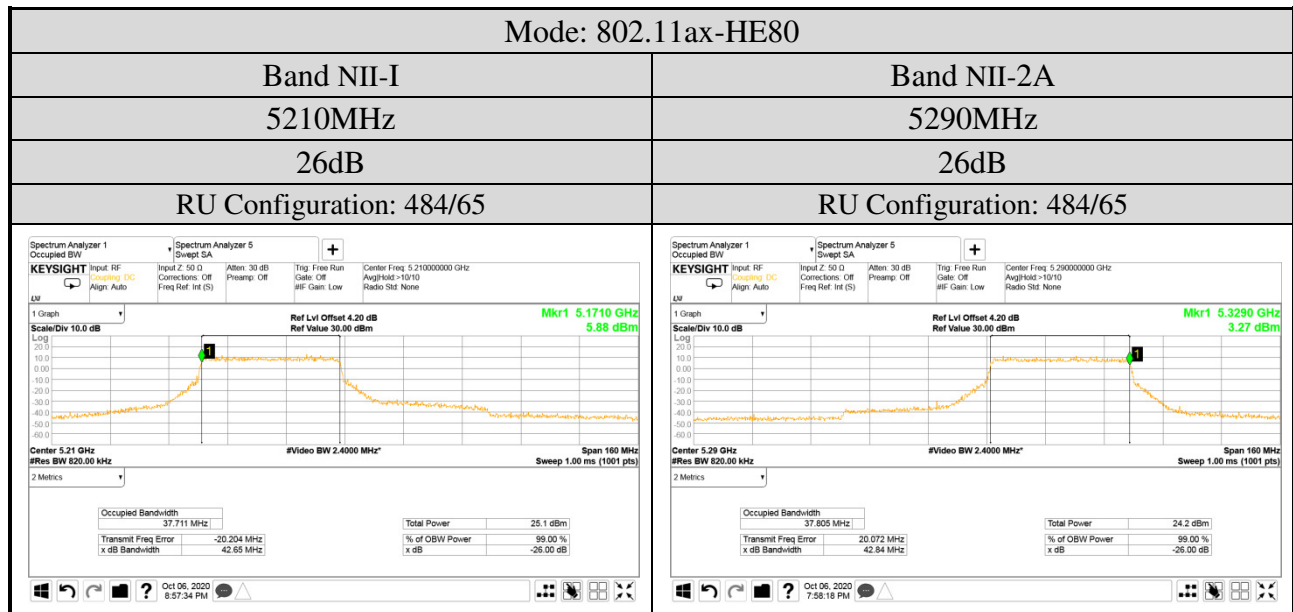
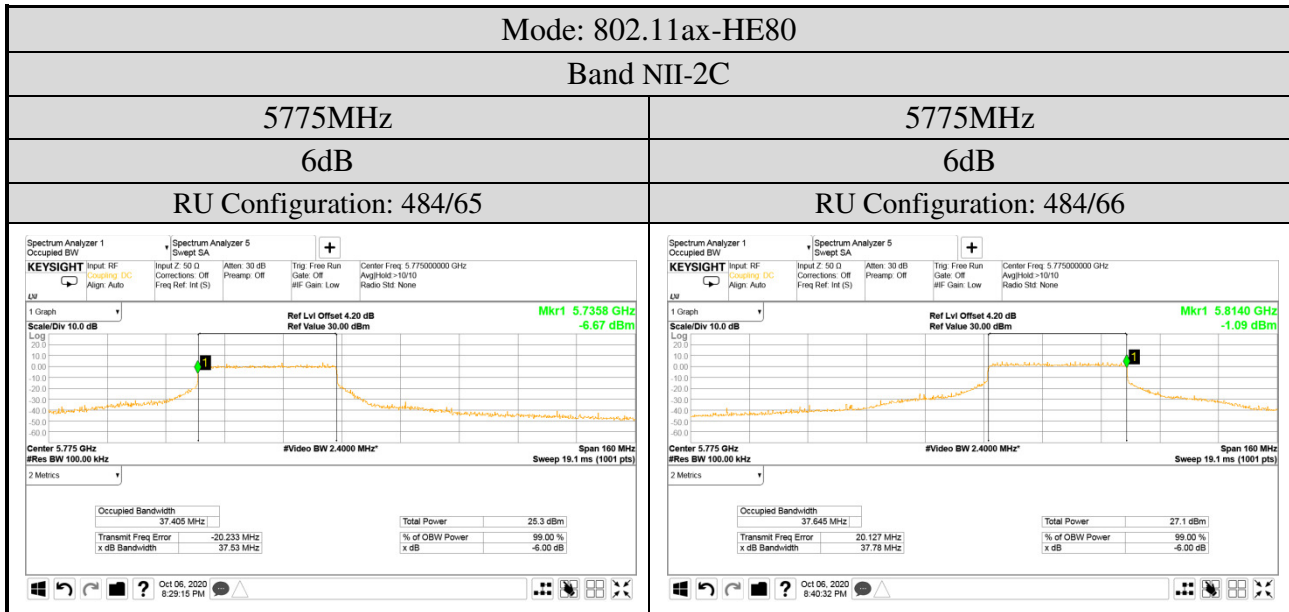


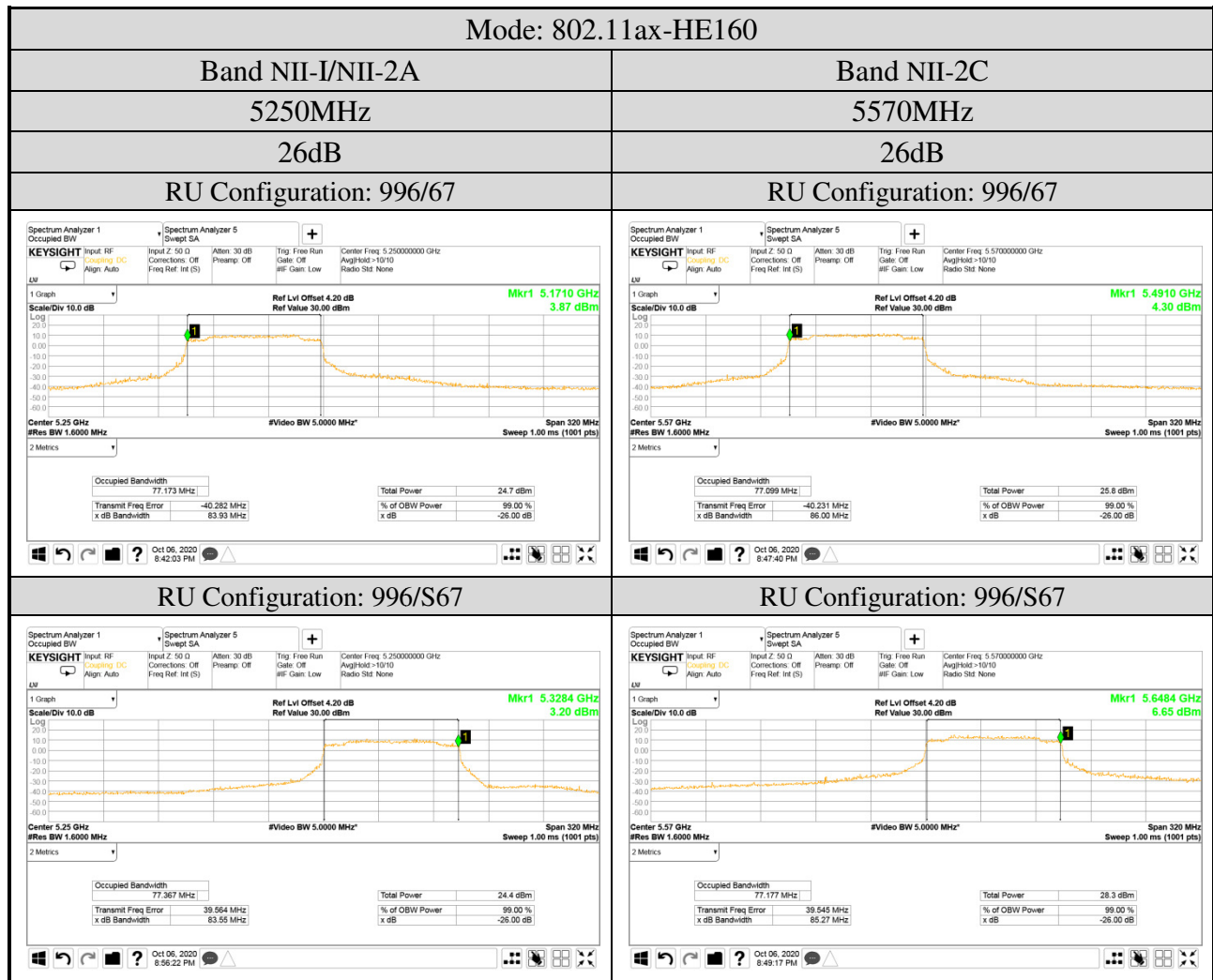
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A.4 MAXIMUM OUTPUT POWER

Test Date	2020/09/21 ~ 10/16	Temp./Hum.	22~24°C/52~56%
Cable Loss	1.2dB	Tested By	Brian Hsieh
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.4.1 Average Output Power

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Max Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11a	NII-I	5180	19.01	19.95	N/A	19.95	0.099	< 250 mW (24 dBm)
		5200	21.04	21.01		21.04	0.127	
		5240	21.11	21.00		21.11	0.129	
	NII-2A	5260	21.01	21.06	N/A	21.06	0.128	
		5300	20.98	21.00		21.00	0.126	
		5320	18.39	18.41		18.41	0.069	
	NII-2C	5500	19.03	19.06	N/A	19.06	0.081	< 1 W (30 dBm)
		5580	21.09	21.05		21.09	0.129	
		5700	18.82	19.39		19.39	0.087	
	NII-III	5745	21.08	21.10	N/A	21.10	0.129	
		5785	21.02	21.03		21.03	0.127	
		5825	21.01	20.95		21.01	0.126	

Mode	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	NII-I	5180	18.21	18.15	N/A	21.19	0.132	< 250 mW (24 dBm)
		5200	19.50	19.51		22.52	0.179	
		5240	19.69	19.43		22.57	0.181	
	NII-2A	5260	19.67	19.48	N/A	22.59	0.182	
		5300	19.64	19.62		22.64	0.184	
		5320	16.79	16.74		19.78	0.095	
	NII-2C	5500	18.12	18.15	N/A	21.15	0.130	< 1 W (30 dBm)
		5580	19.33	19.44		22.40	0.174	
		5700	16.39	17.85		20.19	0.104	
	NII-III	5720	18.89	18.79	N/A	21.85	0.153	
		5745	20.08	19.89		23.00	0.200	
		5785	20.19	20.07		23.14	0.206	
		5825	20.19	20.04		23.13	0.206	

Note: The results have been included cable loss.

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Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11n-HT40	NII-I	5190	17.41	17.43	N/A	20.43	0.110	< 250 mW (24 dBm)
		5230	19.23	19.18		22.22	0.167	
	NII-2A	5270	18.87	18.89	N/A	21.89	0.155	
		5310	14.40	14.81		17.62	0.058	
	NII-2C	5510	17.41	17.35	N/A	20.39	0.109	
		5550	20.35	20.23		23.30	0.214	
		5670	18.68	19.25		21.98	0.158	
		5710	19.67	19.61		22.65	0.184	
	NII-III	5755	20.14	19.50	N/A	22.84	0.192	< 1 W (30 dBm)
		5795	20.25	19.89		23.08	0.203	

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ac-VHT80	NII-I	5210	17.37	17.31	N/A	20.35	0.108	< 250 mW (24 dBm)
	NII-2A	5290	15.94	15.81	N/A	18.89	0.077	
	NII-2C	5530	17.67	17.82	N/A	20.76	0.119	
		5610	18.86	18.96		21.92	0.156	
		5690	19.85	19.92		22.90	0.195	
	NII-III	5775	18.53	18.70	N/A	21.63	0.146	< 1 W (30 dBm)

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ac-VHT160	NII-I/II-2A	5250	13.28	13.48	N/A	16.39	0.044	< 250 mW (24 dBm)
	NII-2C	5570	13.33	14.97	N/A	17.24	0.053	

Note: The results have been included cable loss.

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Mode	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	NII-I	5180	18.23	18.31	N/A	21.28	0.134	< 250 mW (24 dBm)
		5200	19.77	19.69		22.74	0.188	
		5240	19.79	19.60		22.71	0.187	
	NII-2A	5260	19.57	19.67	N/A	22.63	0.183	
		5300	19.44	19.57		22.52	0.179	
		5320	16.98	17.03		20.02	0.100	
	NII-2C	5500	18.04	18.04	N/A	21.05	0.127	
		5580	19.99	20.09		23.05	0.202	
		5700	16.56	18.63		20.73	0.118	
		5720	18.80	18.82		21.82	0.152	
	NII-III	5745	20.08	20.00	N/A	23.05	0.202	< 1 W (30 dBm)
		5785	20.19	20.06		23.14	0.206	
		5825	19.98	20.04		23.02	0.200	

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE40	NII-I	5190	17.33	17.35	N/A	20.35	0.108	< 250 mW (24 dBm)
		5230	19.13	18.95		22.05	0.160	
	NII-2A	5270	18.77	18.71	N/A	21.75	0.150	
		5310	15.07	15.15		18.12	0.065	
	NII-2C	5510	17.38	17.93	N/A	20.67	0.117	
		5550	20.10	20.13		23.13	0.206	
		5670	18.02	18.44		21.25	0.133	
		5710	19.51	19.26		22.40	0.174	
	NII-III	5755	19.45	19.25	N/A	22.36	0.172	< 1 W (30 dBm)
		5795	19.88	19.78		22.84	0.192	

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE80	NII-I	5210	17.20	17.14	N/A	20.18	0.104	< 250 mW (24 dBm)
	NII-2A	5290	14.95	14.88	N/A	17.93	0.062	
	NII-2C	5530	17.60	17.72	N/A	20.67	0.117	
		5610	18.09	18.45		21.28	0.134	
		5690	19.88	20.02		22.96	0.198	
	NII-III	5775	17.74	17.73	N/A	20.75	0.119	< 1 W (30 dBm)

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE160	NII-I/II-2A	5250	13.24	13.27	N/A	16.27	0.042	< 250 mW (24 dBm)
	NII-2C	5570	13.47	14.52	N/A	17.04	0.051	

Note: The results have been included cable loss.

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Mode	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	NII-I	5180	26/0	10.63	10.62	N/A	13.64	0.023	< 250 mW (24 dBm)
			52/37	13.50	13.43		16.48	0.044	
			106/53	16.62	16.68		19.66	0.092	
	NII-2A	5320	26/8	10.72	10.65	N/A	13.70	0.023	
			52/40	13.55	13.61		16.59	0.046	
			106/54	16.56	16.62		19.60	0.091	
	NII-2C	5500	26/0	10.66	10.55	N/A	13.62	0.023	
			52/37	13.46	13.50		16.49	0.045	
			106/53	16.55	16.59		19.58	0.091	
		5700	26/8	10.47	10.54		13.52	0.022	
			52/40	13.64	13.61		16.64	0.046	
			106/54	16.78	16.74		19.77	0.095	
	NII-III	5745	26/0	14.23	13.83	N/A	17.04	0.051	< 1 W (30 dBm)
			52/37	16.81	16.61		19.72	0.094	
			106/53	19.86	19.61		22.75	0.188	
		5825	26/8	14.77	15.00		17.90	0.062	
			52/40	17.36	17.22		20.30	0.107	
			106/54	19.82	19.75		22.80	0.191	

Mode	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-HE40	NII-I	5190	242/61	18.05	18.11	N/A	21.09	0.129	< 250 mW (24 dBm)
	NII-2A	5310	242/62	17.21	16.98	N/A	20.11	0.103	
	NII-2C	5510	242/61	18.51	18.84	N/A	21.69	0.148	
		5670	242/62	18.69	19.27		22.00	0.158	
	NII-III	5755	242/61	19.85	19.70	N/A	22.79	0.190	< 1 W (30 dBm)
		5795	242/62	19.77	19.74		22.77	0.189	

Mode	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-HE80	NII-I	5210	484/65	16.95	16.61	N/A	19.79	0.095	< 250 mW (24 dBm)
	NII-2A	5290	484/66	16.51	16.55	N/A	19.54	0.090	
	NII-2C	5530	484/65	17.16	17.55	N/A	20.37	0.109	
		5610	484/66	18.63	19.05		21.86	0.153	
	NII-III	5775	484/65	19.05	19.13	N/A	22.10	0.162	< 1 W (30 dBm)
			484/66	19.02	19.33		22.19	0.166	

Note: The results have been included cable loss.

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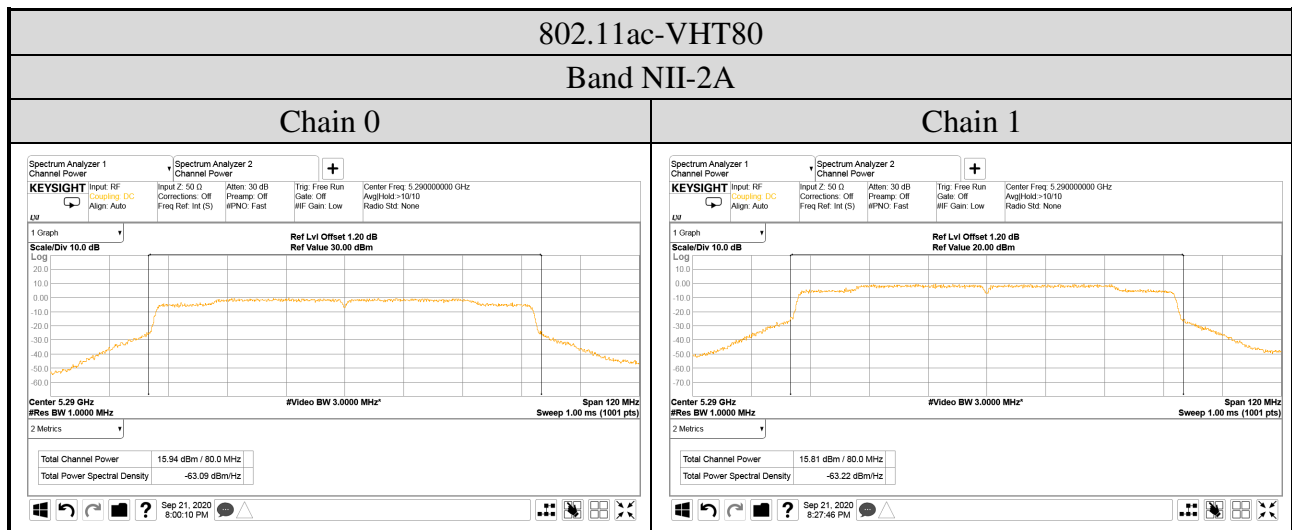
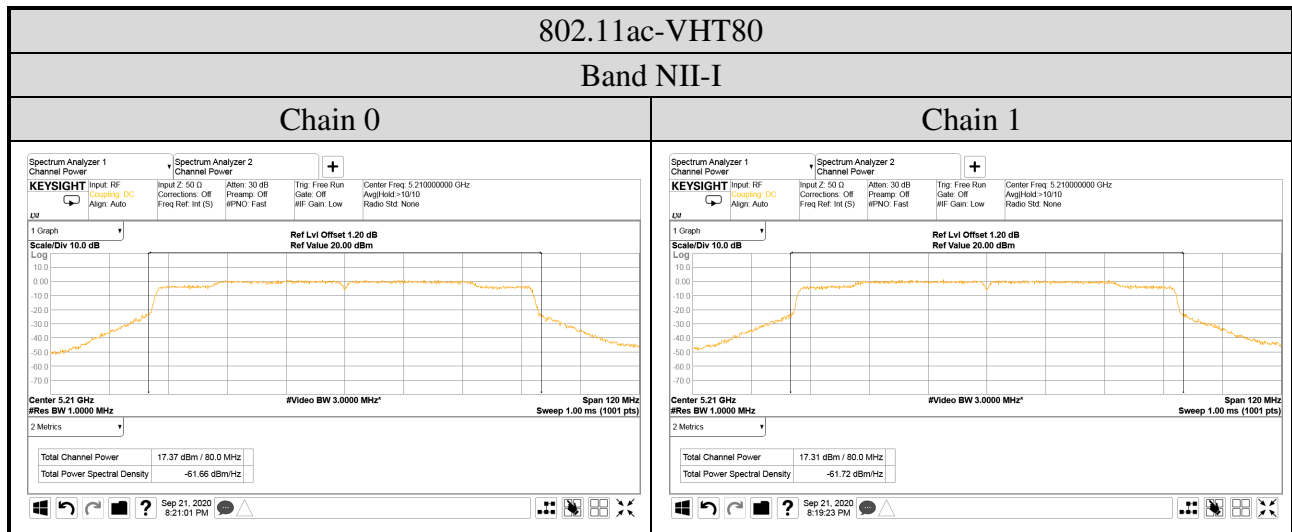
Mode	Band	Centre Frequency (MHz)	RU Configuration	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
				Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE160	NII-I/ NII-2A	5250	996/67	16.88	16.68	N/A	19.79	0.095	< 250 mW (24 dBm)
			996/S67	15.71	15.27		18.51	0.071	
	NII-2C	5570	996/67	16.27	16.68	N/A	19.49	0.089	
			996/S67	18.43	18.98		21.72	0.149	

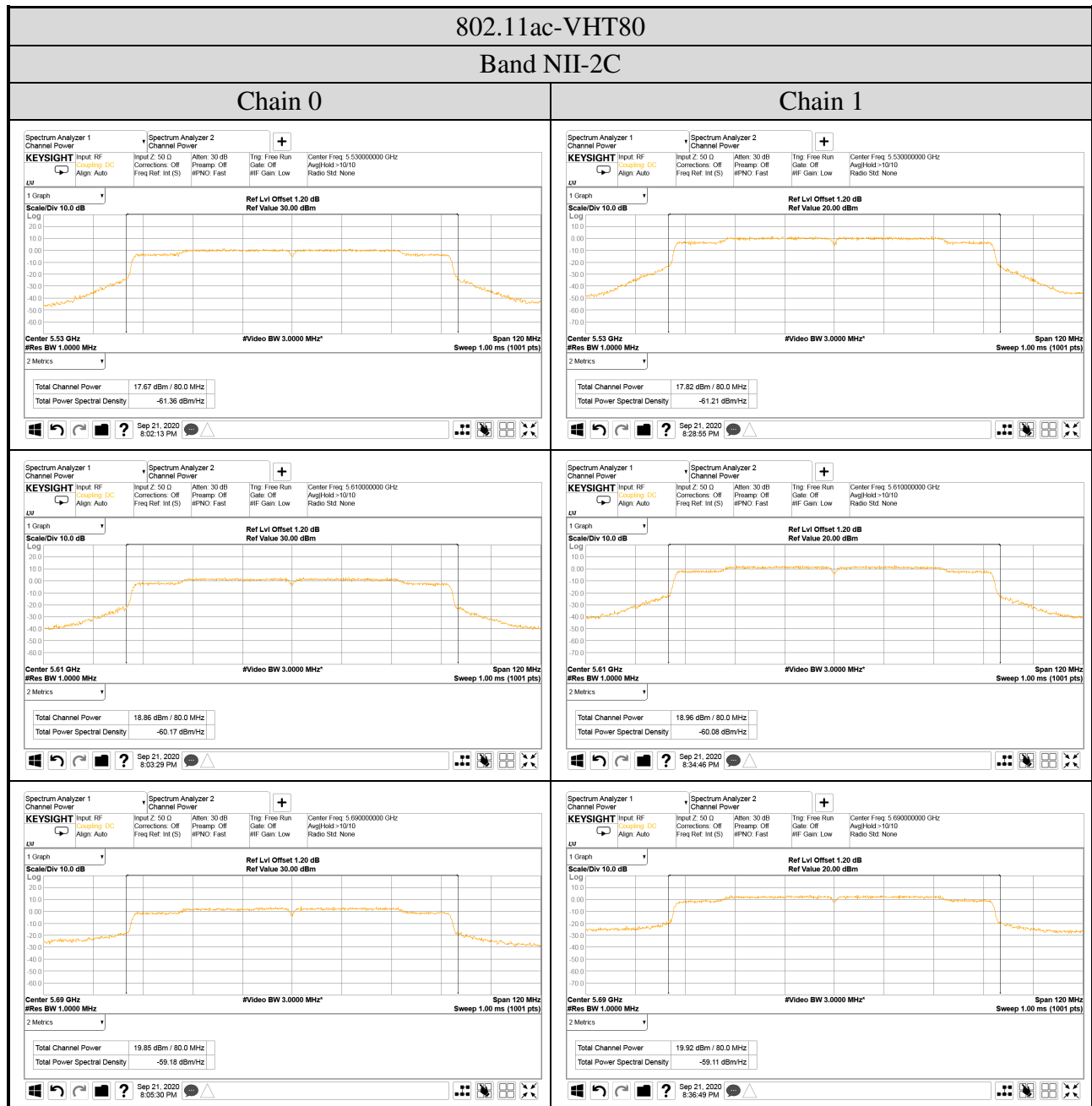
Note: The results have been included cable loss.

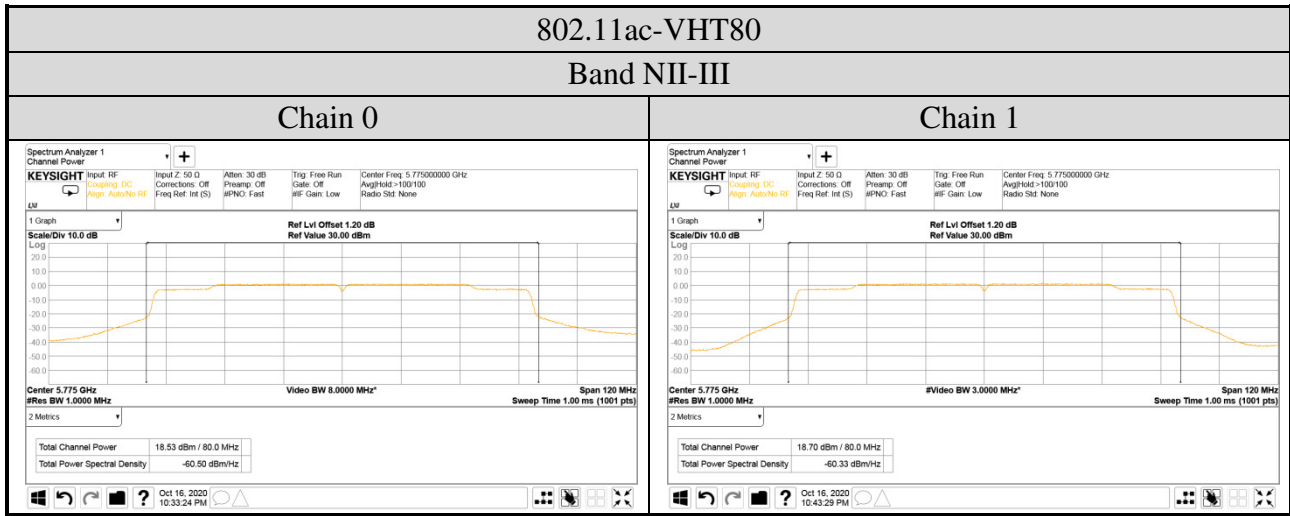
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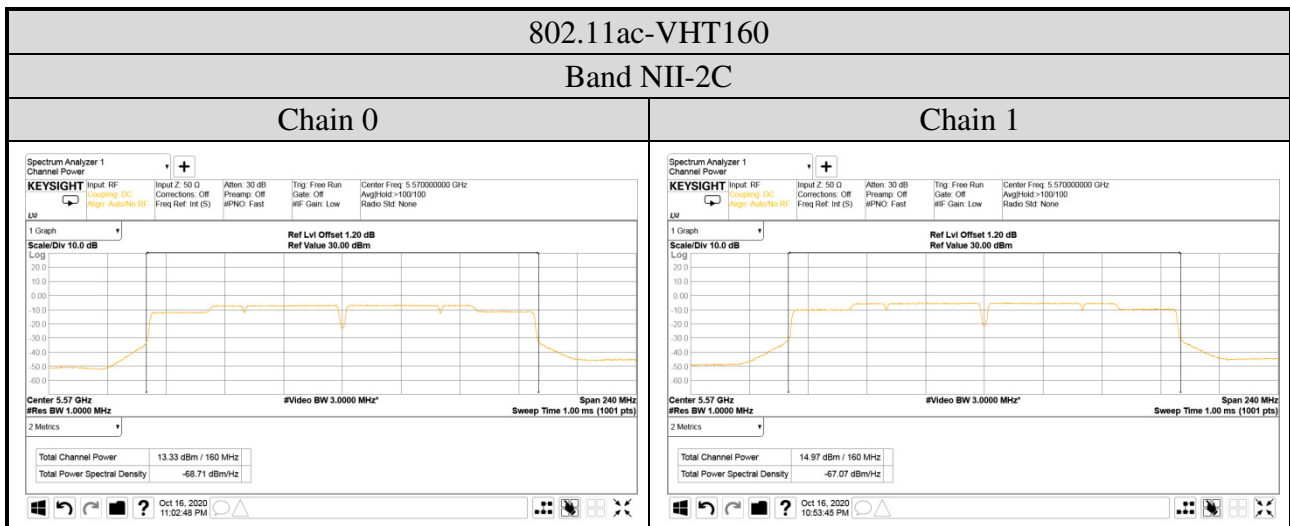
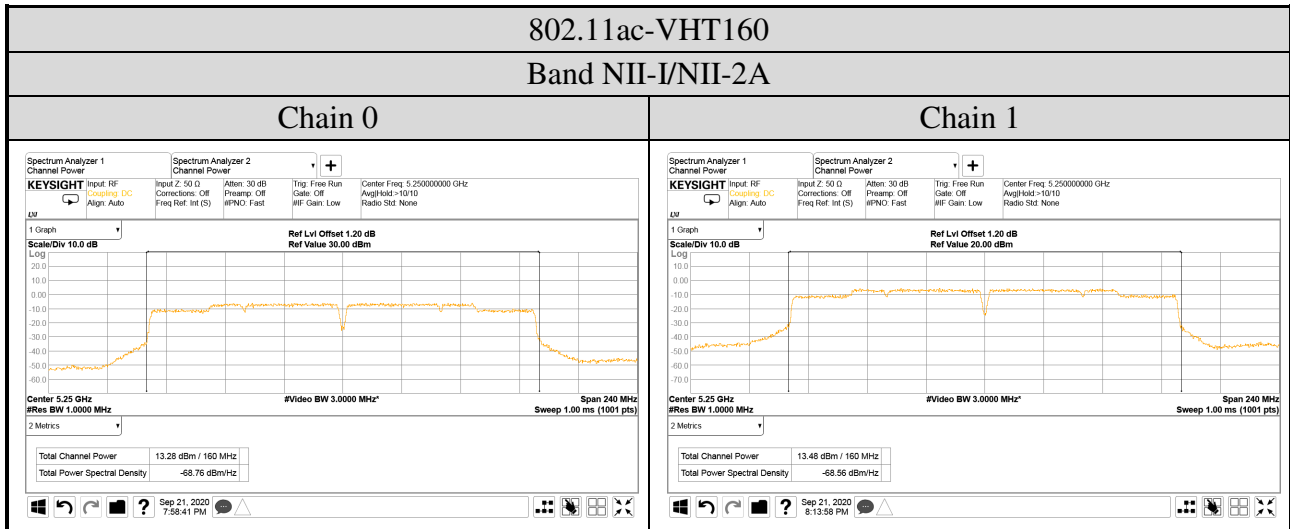
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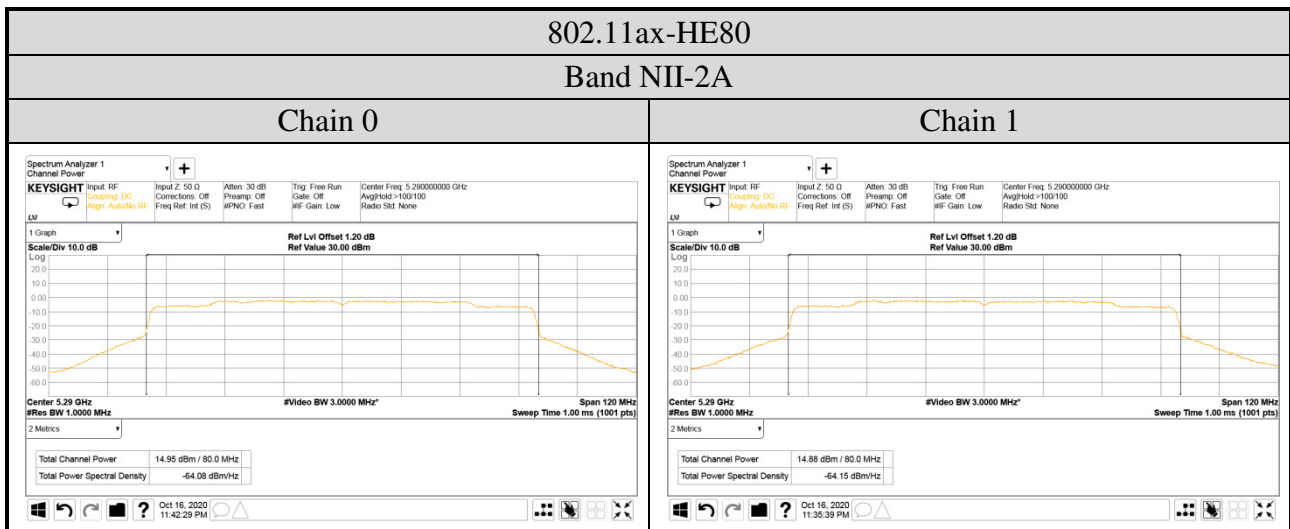
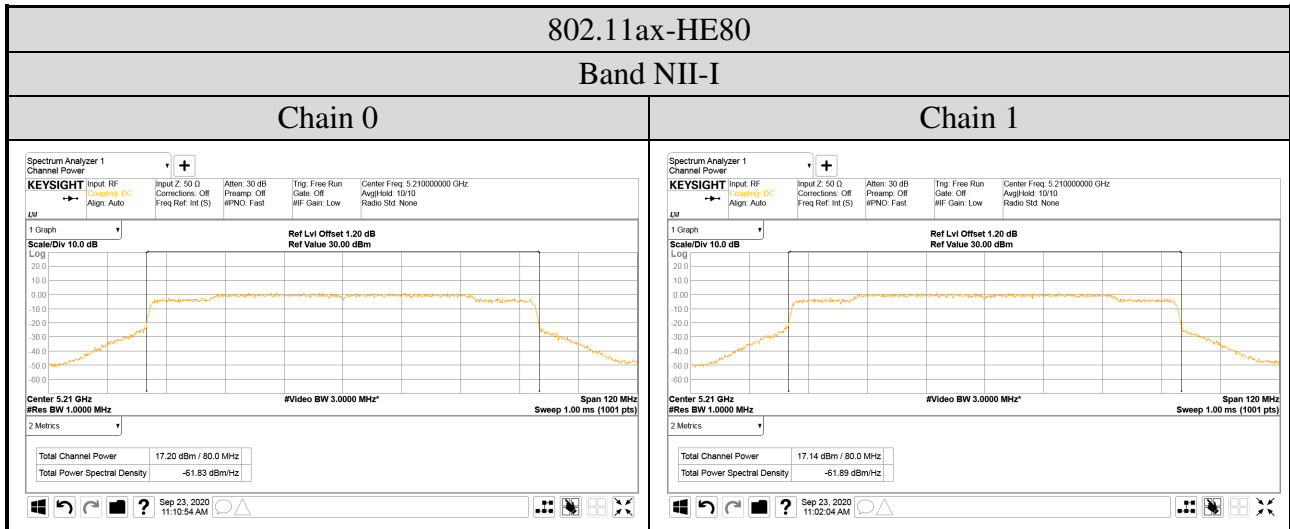
A.4.2 Measurement Plots

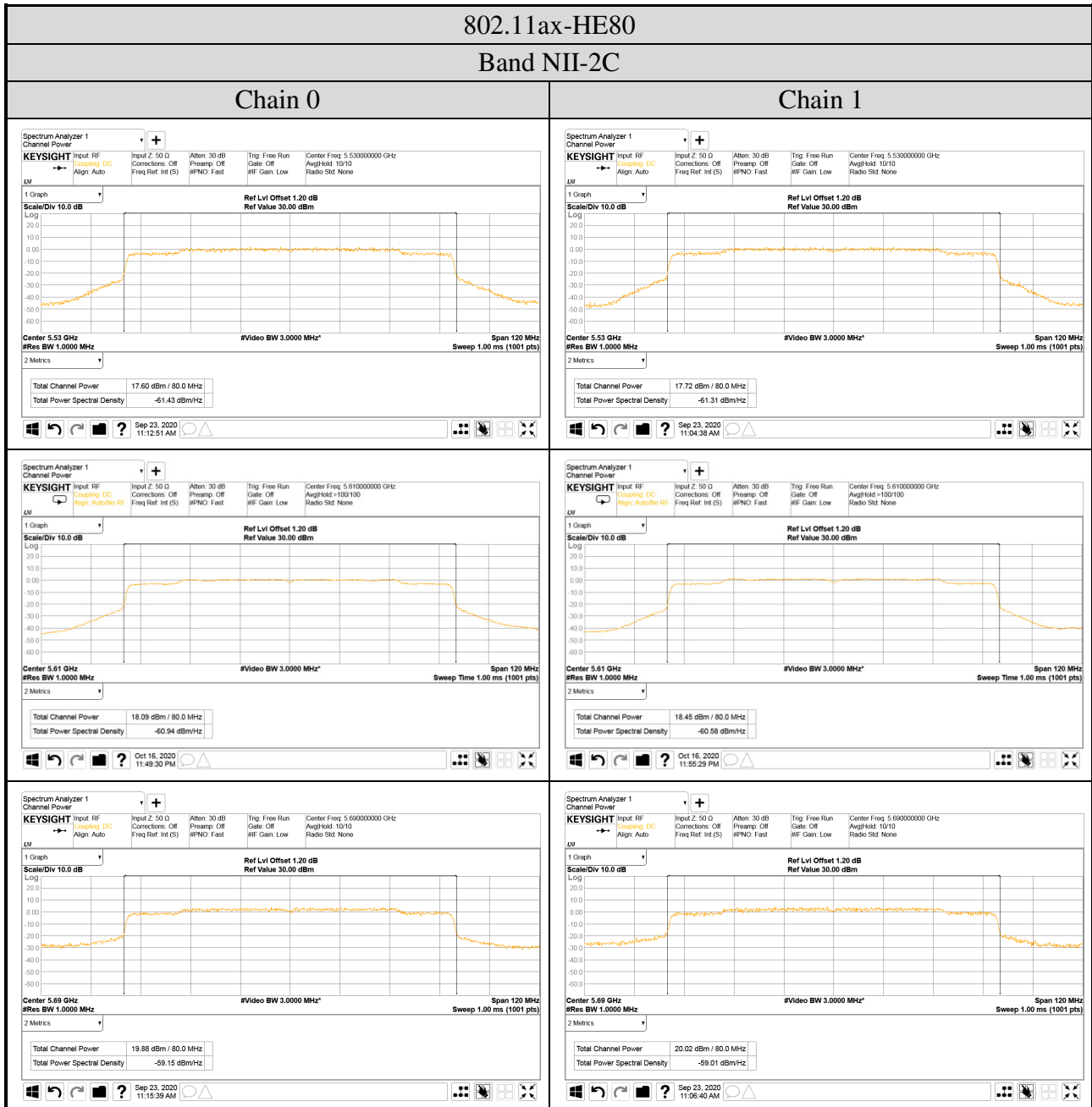


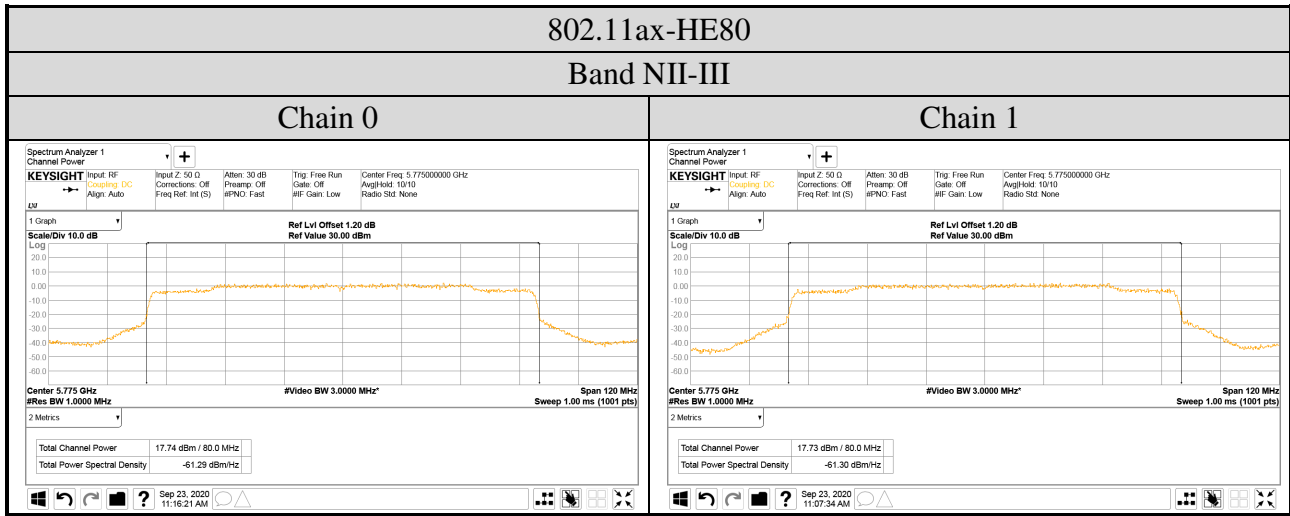


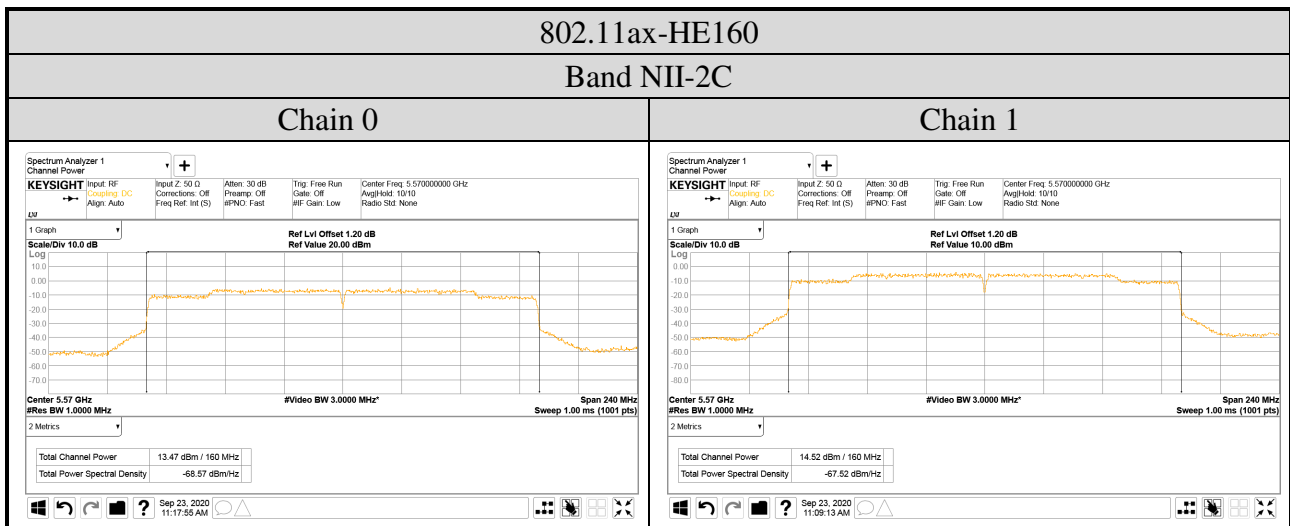
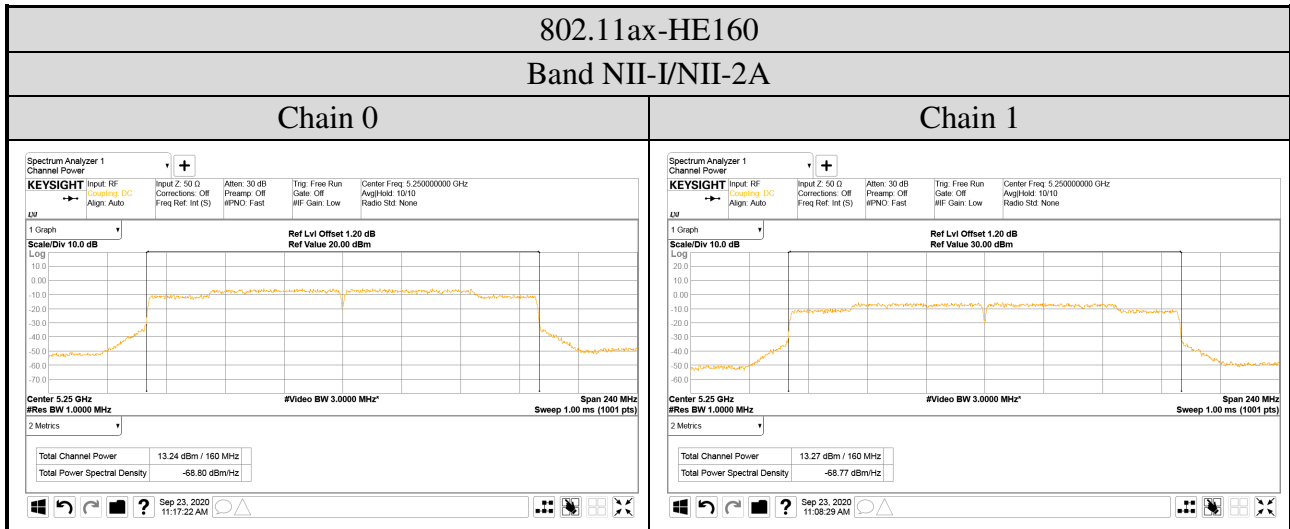


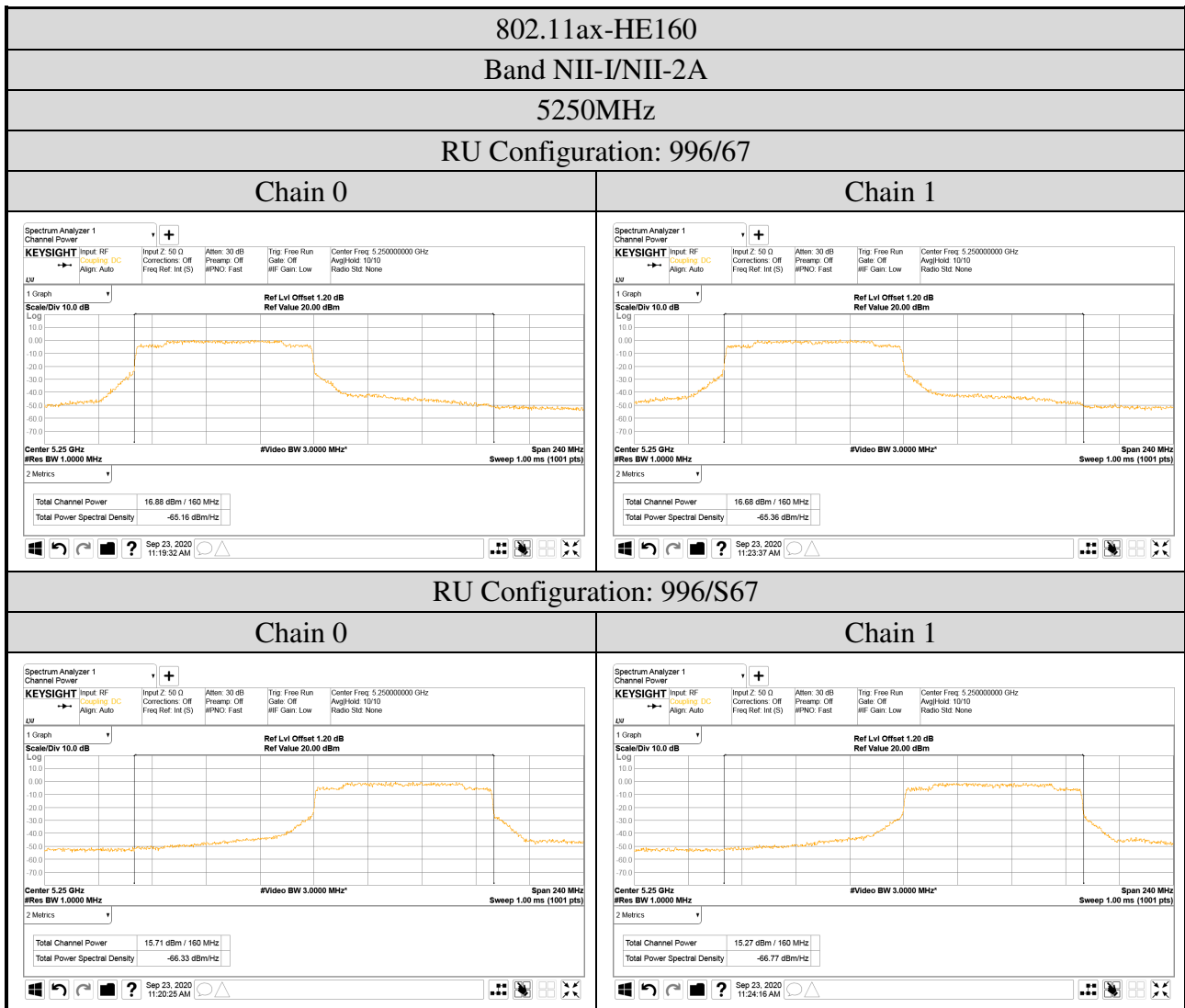


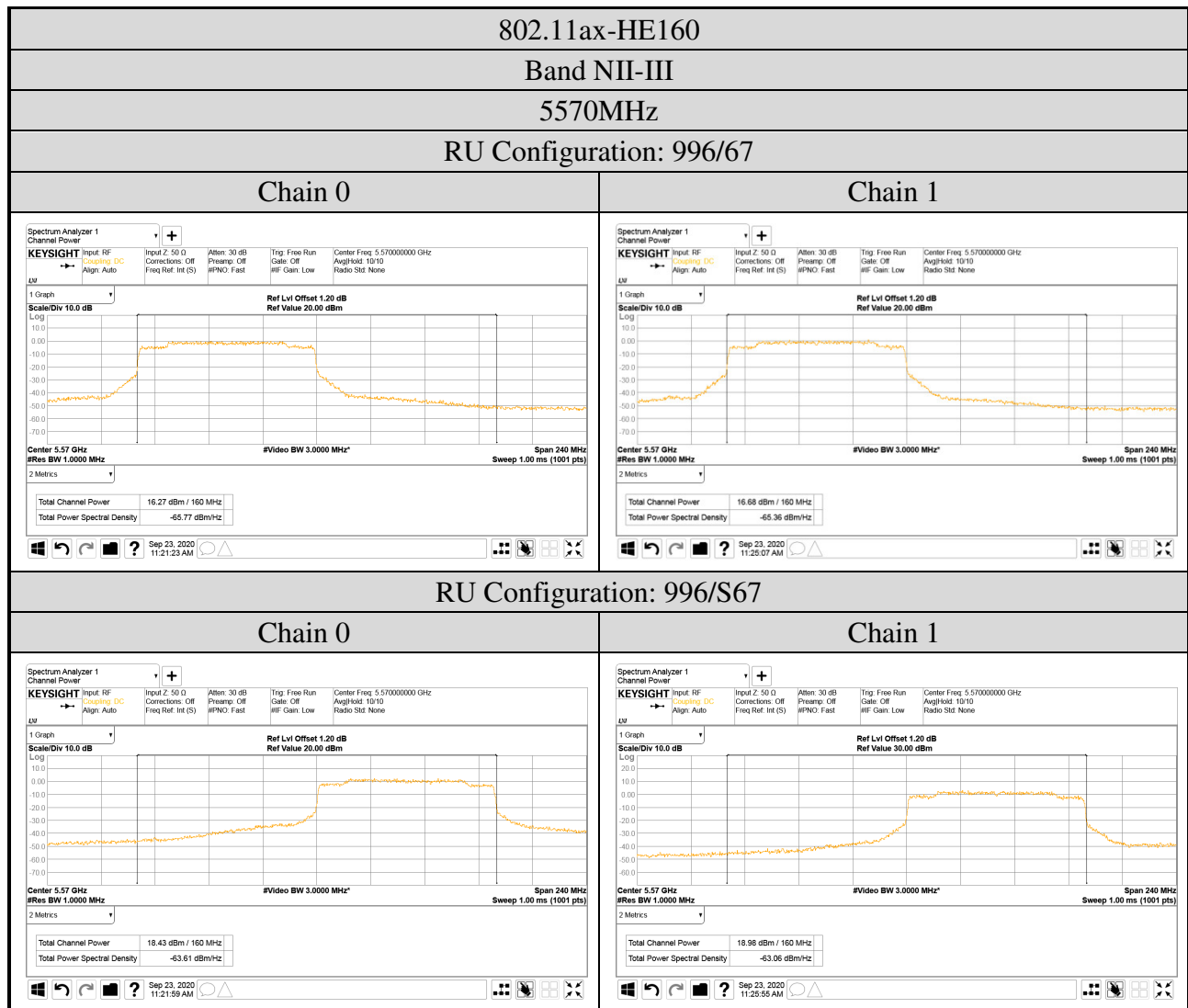












A.5 POWER SPECTRAL DENSITY

Test Date	2020/09/29~10/06	Temp./Hum.	22~24°C/52~56%
Cable Loss	1.2dB	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-HE80/160: 3dB	

A.5.1 Power Spectral Density Result

Mode	Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	NII-I	5180	8.150	11 dBm/MHz
		5200	9.826	
		5240	9.820	
	NII-2A	5260	9.608	
		5300	9.236	
		5320	6.324	
	NII-2C	5500	7.542	
		5580	9.743	
		5700	6.947	
	NII-III ^{Note2}	5745	8.282	30dBm/500 kHz
5785		7.801		
5825		7.953		
802.11n-HT20	NII-I	5180	9.324	11 dBm/MHz
		5200	10.574	
		5240	10.861	
	NII-2A	5260	10.714	
		5300	10.432	
		5320	7.100	
	NII-2C	5500	9.224	
		5580	10.599	
		5700	9.493	
		5720	9.336	
	NII-III ^{Note2}	5745	9.501	30dBm/500 kHz
		5785	9.313	
5825		9.182		

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

Note 2: BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

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Mode	Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT40	NII-I	5190	5.433	11 dBm/MHz
		5230	7.238	
	NII-2A	5270	6.735	
		5310	2.216	
	NII-2C	5510	5.689	
		5550	8.511	
		5670	7.227	
		5710	7.389	
	NII-III ^{Note2}	5755	6.557	30dBm/500 kHz
		5795	6.281	
802.11ac-VHT80	NII-I	5210	3.081	11 dBm/MHz
	NII-2A	5290	1.695	
	NII-2C	5530	3.954	
		5610	4.836	
	NII-2C	5690	5.588	30dBm/500 kHz
		5775	1.640	
802.11ac-VHT160	NII-I/NII-2A	5250	-3.026	11 dBm/MHz
	NII-2C	5570	-2.107	

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

Note 2: BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

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Mode	Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11ax-HE20	NII-I	5180	9.197	11 dBm/MHz
		5200	10.665	
		5240	10.432	
	NII-2A	5260	10.398	
		5300	10.503	
		5320	7.578	
	NII-2C	5500	8.999	
		5580	10.493	
		5700	9.040	
		5720	9.342	
	NII-III ^{Note2}	5745	7.592	30dBm/500 kHz
		5785	7.858	
		5825	7.466	
802.11ax-HE40	NII-I	5190	5.326	11 dBm/MHz
		5230	6.771	
	NII-2A	5270	6.283	
		5310	2.081	
	NII-2C	5510	5.721	
		5550	8.330	
		5670	6.480	
		5710	6.833	
	NII-III ^{Note2}	5755	4.267	30dBm/500 kHz
		5795	4.738	
802.11ax-HE80	NII-I	5210	2.747	11 dBm/MHz
	NII-2A	5290	1.922	
	NII-2C	5530	3.561	
		5610	4.806	
		5690	5.951	
	NII-III ^{Note2}	5775	0.219	30dBm/500 kHz
802.11ax-HE160	NII-I/NII-2A	5250	-4.515	11 dBm/MHz
	NII-2C	5570	-3.078	

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

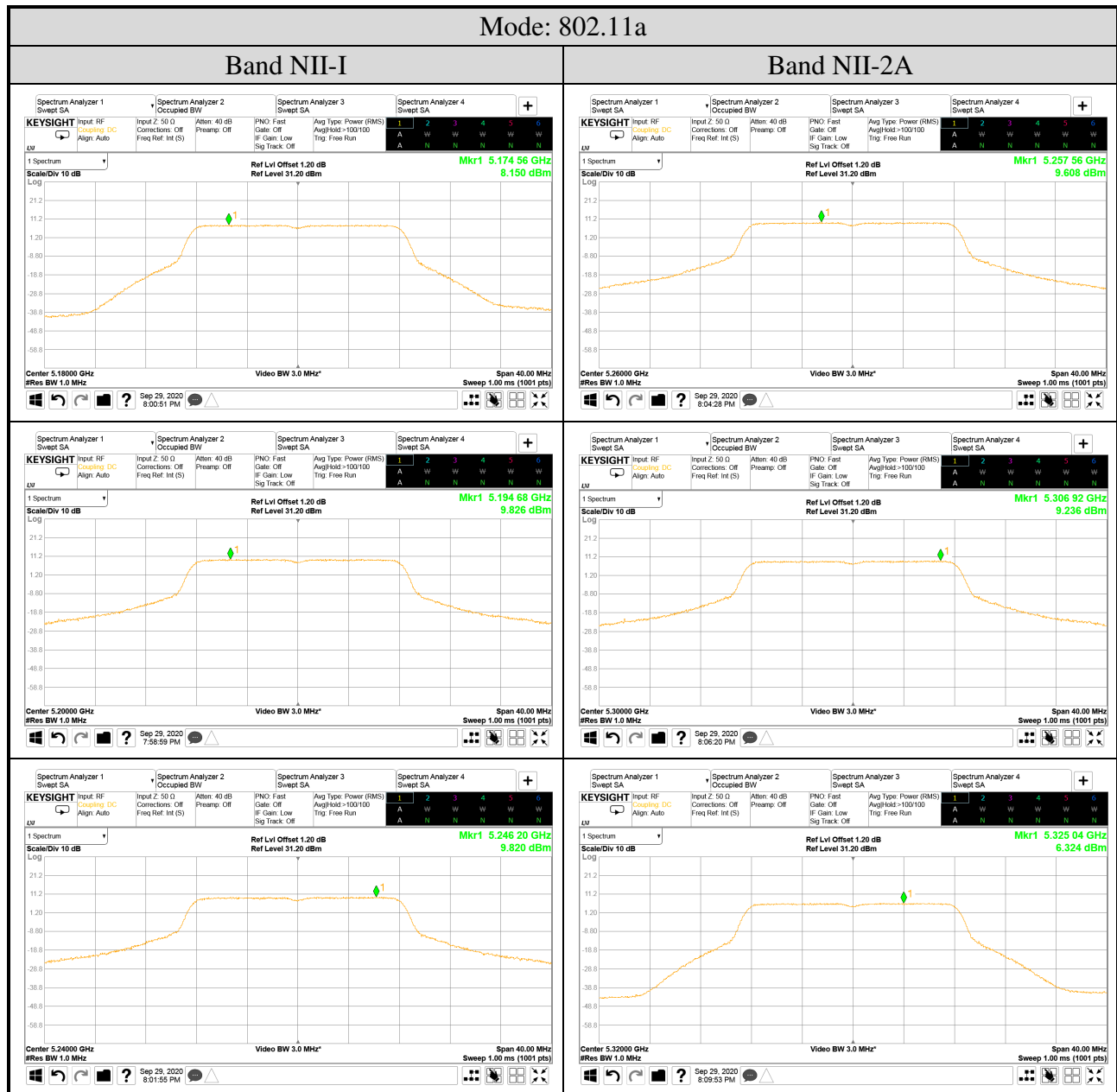
Note 2: BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

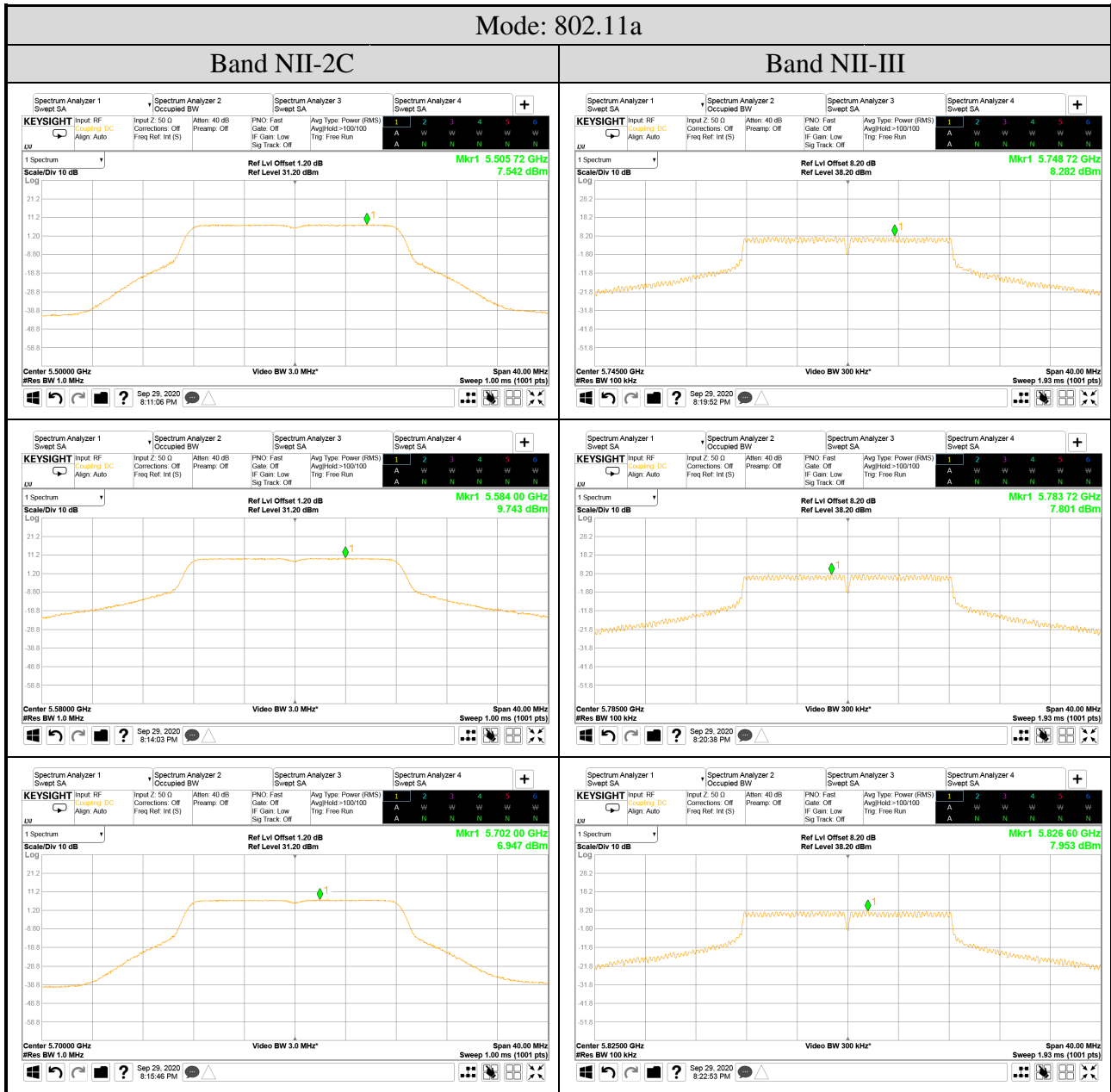
Mode	Band	Centre Frequency (MHz)	RU Configuration	Power Spectral Density (dBm)	Limit
802.11ax-HE20	NII-I	5180	26/0	9.911	11 dBm/MHz
			52/37	10.293	
			106/53	10.548	
	NII-2A	5320	26/8	9.028	
			52/40	9.894	
			106/54	10.315	
	NII-2C	5500	26/0	9.574	
			52/37	10.112	
			106/53	10.637	
		5700	26/8	8.806	
			52/40	9.357	
			106/54	9.907	
	NII-III ^{Note2}	5745	26/0	10.032	30dBm/500 kHz
			52/37	10.275	
			106/53	10.533	
		5825	26/8	10.632	
			52/40	10.666	
			106/54	10.682	
802.11ax-HE40	NII-I	5190	242/61	9.078	11 dBm/MHz
	NII-2A	5310	242/62	7.709	
	NII-2C	5510	242/61	9.739	
		5670	242/62	9.492	
	NII-III ^{Note2}	5755	242/61	7.581	30dBm/500 kHz
		5795	242/62	7.586	
802.11ax-HE80	NII-I	5210	484/65	4.699	11 dBm/MHz
	NII-2A	5290	484/66	3.866	
	NII-2C	5530	484/65	5.655	
		5610	484/66	6.572	
	NII-III ^{Note2}	5775	484/65	4.232	30dBm/500 kHz
			484/66	4.306	
802.11ax-HE160	NII-I/NII-2A	5250	996/67	2.726	11 dBm/MHz
			996/S67	1.553	
	NII-2C	5570	996/67	2.940	
			996/S67	5.439	

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

Note 2: BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

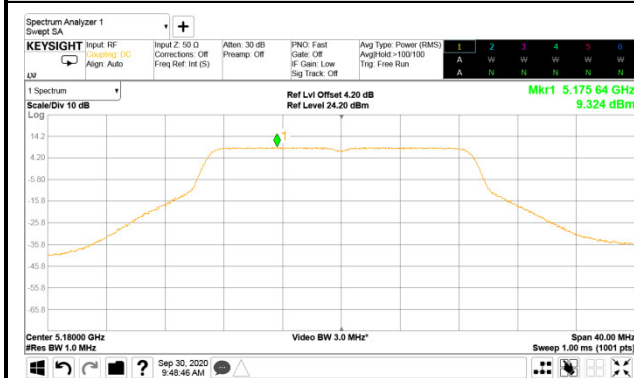
A.5.2 Measurement Plots





Mode: 802.11n-HT20

Band NII-1



Band NII-2A

