

A.4 MAXIMUM OUTPUT POWER

Test Date	2018/03/16~11/27	Temp./Hum.	24~25°C/53~54%
Cable Loss	CDD Mode: 3.48dB SDM Mode: 1.6dB or 3.7dB	Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)

A.4.1 Average Output Power

- CDD Mode

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11a	I	5180	12.24	12.80	12.41	11.74	0.28	18.62	0.073	< 250mW (24 dBm)
		5200	12.54	12.97	12.57	12.29		18.90	0.078	
		5240	12.77	12.39	11.95	12.41		18.69	0.074	
	II-2A	5260	13.02	11.96	11.35	12.49		18.55	0.072	
		5300	12.95	12.08	11.69	12.54		18.64	0.073	
		5320	13.12	12.36	11.95	12.74		18.87	0.077	
	II-2C	5500	13.51	12.12	12.75	13.34		19.27	0.085	
		5580	13.50	11.41	12.03	13.42		18.98	0.079	
		5700	13.20	12.06	12.24	11.25		18.55	0.072	
	III	5745	22.41	21.89	22.35	21.68		28.40	0.692	< 1W (30dBm)
		5785	22.36	22.43	23.13	21.94		28.79	0.757	
		5825	22.82	22.13	22.86	22.25		28.83	0.764	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01, Directional gain= G_{ANT} + Array Gain ;

Array Gain=0dB for $N_{ANT} \leq 4$; Array Gain=0dB for channel widths ≥ 40 MHz for any N_{ANT}

Directional gain=2.36+0=2.36dBi < 6 dBi

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11n-HT20	I	5180	12.03	12.51	11.96	11.82	0.98	19.09	0.081	< 250mW (24 dBm)
		5200	11.74	12.45	11.88	11.53		18.91	0.078	
		5240	12.48	12.17	12.11	12.37		19.28	0.085	
	II-2A	5260	12.82	11.71	11.29	12.46		19.11	0.081	
		5300	12.88	12.01	11.86	12.48		19.33	0.086	
		5320	12.57	12.06	11.70	12.26		19.16	0.082	
	II-2C	5500	12.90	11.21	11.73	12.62		19.17	0.083	
		5580	12.84	10.68	11.29	12.79		19.00	0.079	
		5700	12.54	11.31	11.56	10.63		18.56	0.072	
	III	5745	21.98	21.44	22.13	21.37		28.74	0.748	< 1W (30dBm)
		5785	22.17	21.28	23.00	21.33		29.00	0.794	
		5825	22.06	21.39	22.79	21.75		29.03	0.800	

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11n-HT40	I	5190	13.96	14.72	14.56	14.17	1.66	22.04	0.160	< 250mW (24 dBm)
		5230	14.08	14.07	14.15	14.12		21.78	0.151	
	II-2A	5270	14.98	14.66	14.00	14.58		22.25	0.168	
		5310	14.98	14.85	14.18	14.47		22.31	0.170	
	II-2C	5510	15.52	14.81	14.25	14.88		22.57	0.181	
		5550	15.64	14.30	13.62	14.98		22.38	0.173	
		5670	14.36	14.46	14.66	14.45		22.16	0.164	
	III	5755	20.26	19.79	19.40	20.66		27.73	0.593	< 1W (30dBm)
		5795	18.96	20.99	20.98	19.41		27.86	0.611	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01, Directional gain= G_{ANT} + Array Gain ;

Array Gain=0dB for $N_{ANT} \leq 4$; Array Gain=0dB for channel widths ≥ 40 MHz for any N_{ANT}

Directional gain= $2.36+0=2.36$ dB < 6 dBi

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11ac-VHT20	I	5180	12.01	12.47	12.02	11.81	0.98	19.08	0.081	< 250mW (24 dBm)
		5200	11.92	12.27	11.84	11.48		18.89	0.077	
		5240	12.40	12.21	11.95	12.44		19.25	0.084	
	II-2A	5260	12.78	11.76	11.38	12.32		19.09	0.081	
		5300	12.82	12.01	11.75	12.53		19.30	0.085	
		5320	12.59	11.92	11.75	12.26		19.14	0.082	
	II-2C	5500	12.86	11.30	11.61	12.61		19.14	0.082	
		5580	12.71	10.68	11.40	12.71		18.96	0.079	
		5700	12.49	11.31	11.45	10.64		18.52	0.071	
	III	5745	21.55	21.32	22.06	21.38		28.59	0.723	< 1W (30dBm)
		5785	22.28	21.93	22.29	21.56		29.02	0.798	
		5825	22.01	21.79	22.08	21.26		28.80	0.759	

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11ac-VHT40	I	5190	13.99	14.79	14.98	14.21	1.63	22.17	0.165	< 250mW (24 dBm)
		5230	14.08	14.07	14.18	14.27		21.80	0.151	
	II-2A	5270	15.36	14.68	14.34	14.53		22.40	0.174	
		5310	15.27	15.02	14.54	14.68		22.54	0.179	
	II-2C	5510	15.63	15.13	14.17	14.88		22.64	0.184	
		5550	15.82	14.48	13.68	15.03		22.48	0.177	
		5670	14.53	14.53	14.92	14.60		22.30	0.170	
	III	5755	20.27	19.99	19.73	20.36		27.75	0.596	< 1W (30dBm)
		5795	19.90	20.81	20.20	20.69		28.07	0.641	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01, Directional gain= $G_{ANT} + \text{Array Gain}$;

Array Gain=0dB for $N_{ANT} \leq 4$; Array Gain=0dB for channel widths $\geq 40\text{MHz}$ for any N_{ANT}

Directional gain= $2.36+0=2.36\text{dBi} < 6 \text{ dBi}$

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11ac-VHT80	I	5210	13.59	13.63	14.04	13.86	2.38	22.19	0.166	< 250mW (24 dBm)
	II-2A	5290	14.64	14.56	14.32	13.92		22.77	0.189	
	II-2C	5530	14.94	13.32	13.51	13.78		22.34	0.171	
		5610	14.71	13.63	14.24	13.79		22.52	0.179	
	III	5775	19.60	20.28	19.62	19.32		28.12	0.649	< 1W (30dBm)

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01, Directional gain= $G_{ANT} + \text{Array Gain}$;

Array Gain=0dB for $N_{ANT} \leq 4$; Array Gain=0dB for channel widths $\geq 40\text{MHz}$ for any N_{ANT}

Directional gain= $2.36+0=2.36\text{dBi} < 6 \text{ dBi}$

● SDM Mode

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11n-HT20	I	5180	13.91	13.94	14.21	13.95	0.98	21.00	0.126	< 250 mW (24 dBm)
		5200	14.63	14.39	14.62	14.38		21.51	0.142	
		5240	14.47	13.78	14.18	14.25		21.18	0.131	
	II-2A	5260	14.55	13.09	12.82	14.18		20.72	0.118	
		5300	14.72	13.78	13.61	14.55		21.19	0.132	
		5320	14.75	13.93	13.63	14.41		21.20	0.132	
	II-2C	5500	14.36	13.10	13.95	13.92		20.85	0.122	
		5580	14.28	12.77	14.01	14.33		20.89	0.123	
		5700	14.44	13.16	13.63	12.56		20.50	0.112	
	III	5745	22.11	21.32	22.25	21.25		28.75	0.750	< 1 W (30 dBm)
		5785	22.10	21.35	22.93	21.41		28.99	0.793	
		5825	22.20	21.25	22.93	21.61		29.04	0.802	

Note: 1. The results have been included cable loss.

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11n-HT40	I	5190	15.31	15.55	15.84	15.29	1.66	23.18	0.208	< 250 mW (24 dBm)
		5230	15.34	15.37	15.12	15.07		22.91	0.195	
	II-2A	5270	14.44	15.03	14.55	14.04		22.21	0.166	
		5310	15.48	15.86	15.48	15.03		23.15	0.207	
	II-2C	5510	16.22	15.50	15.06	15.86		23.36	0.217	
		5550	16.53	15.49	14.95	15.95		23.45	0.221	
		5670	15.91	15.03	15.59	16.08		23.35	0.216	
	III	5755	20.32	19.98	19.53	20.27		27.72	0.592	< 1 W (30 dBm)
		5795	19.69	20.97	20.37	20.14		28.00	0.631	

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11ac-VHT20	I	5180	13.88	14.03	14.25	13.68	0.98	20.96	0.125	< 250 mW (24 dBm)
		5200	14.38	14.29	14.43	14.19		21.32	0.136	
		5240	14.58	13.75	14.05	14.32		21.18	0.131	
	II-2A	5260	14.54	12.93	12.86	14.13		20.68	0.117	
		5300	14.61	13.83	13.46	14.45		21.11	0.129	
		5320	14.64	13.94	13.50	14.38		21.14	0.130	
	II-2C	5500	14.37	13.13	13.96	13.84		20.85	0.122	
		5580	14.33	12.77	13.66	14.29		20.81	0.121	
		5700	14.51	13.08	13.77	12.54		20.54	0.113	
	III	5745	21.81	21.27	22.10	21.22		28.61	0.726	< 1 W (30 dBm)
		5785	22.19	22.00	22.31	21.48		29.01	0.796	
		5825	21.95	21.68	22.14	21.31		28.78	0.755	

Note: 1. The results have been included cable loss.

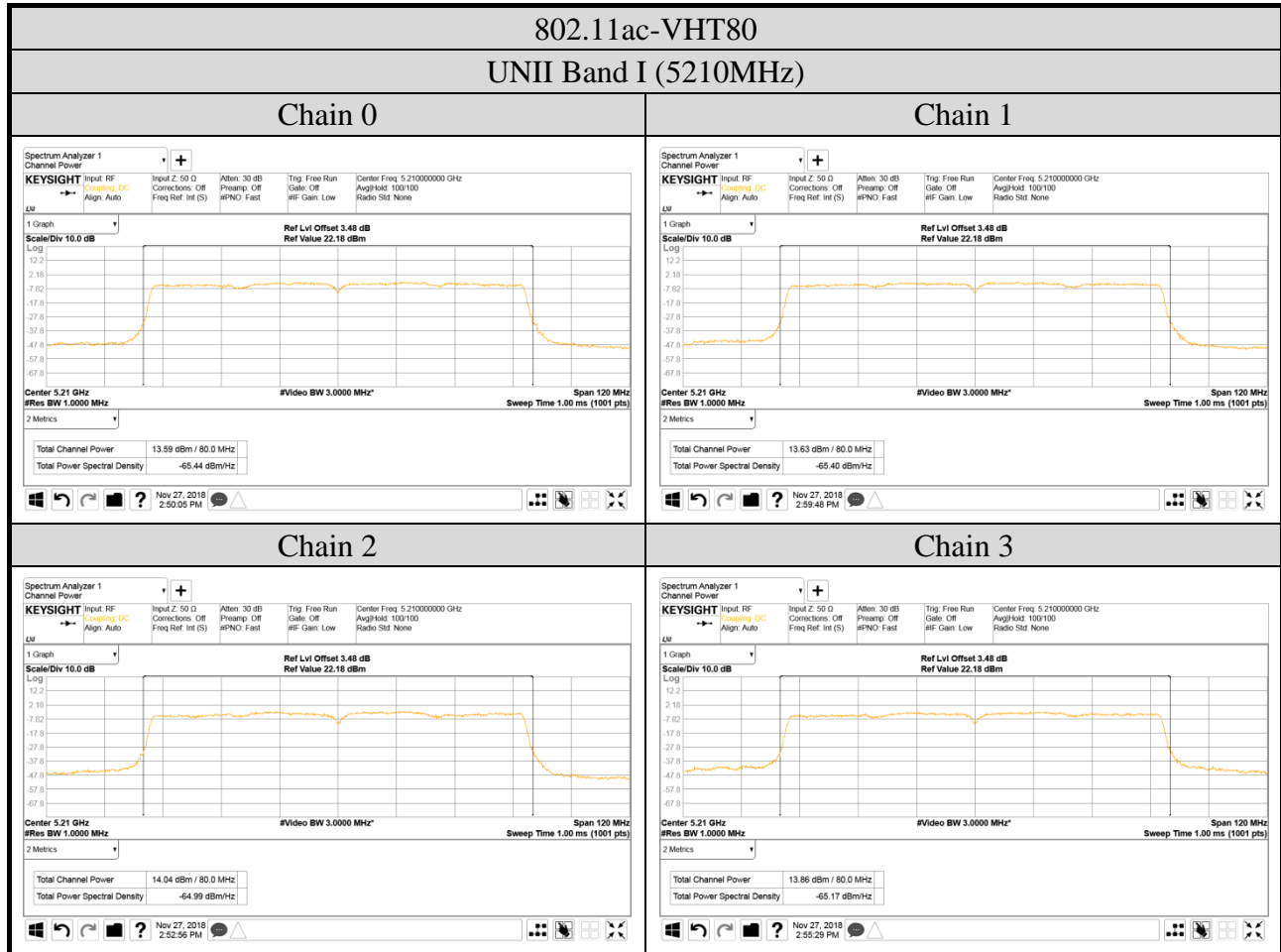
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			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11ac-VHT40	I	5190	15.40	15.71	15.85	15.41	1.63	23.25	0.211	< 250 mW (24 dBm)
		5230	15.72	15.37	15.62	15.59		23.23	0.210	
	II-2A	5270	15.43	16.04	15.68	14.89		23.18	0.208	
		5310	15.49	15.95	15.55	15.11		23.19	0.208	
	II-2C	5510	16.25	15.57	15.18	15.80		23.37	0.217	
		5550	16.54	15.61	15.07	15.88		23.46	0.222	
		5670	15.96	15.01	15.67	16.22		23.39	0.218	
	III	5755	20.27	19.99	19.73	20.36		27.75	0.596	< 1 W (30 dBm)
		5795	19.89	20.80	20.56	20.35		28.07	0.641	

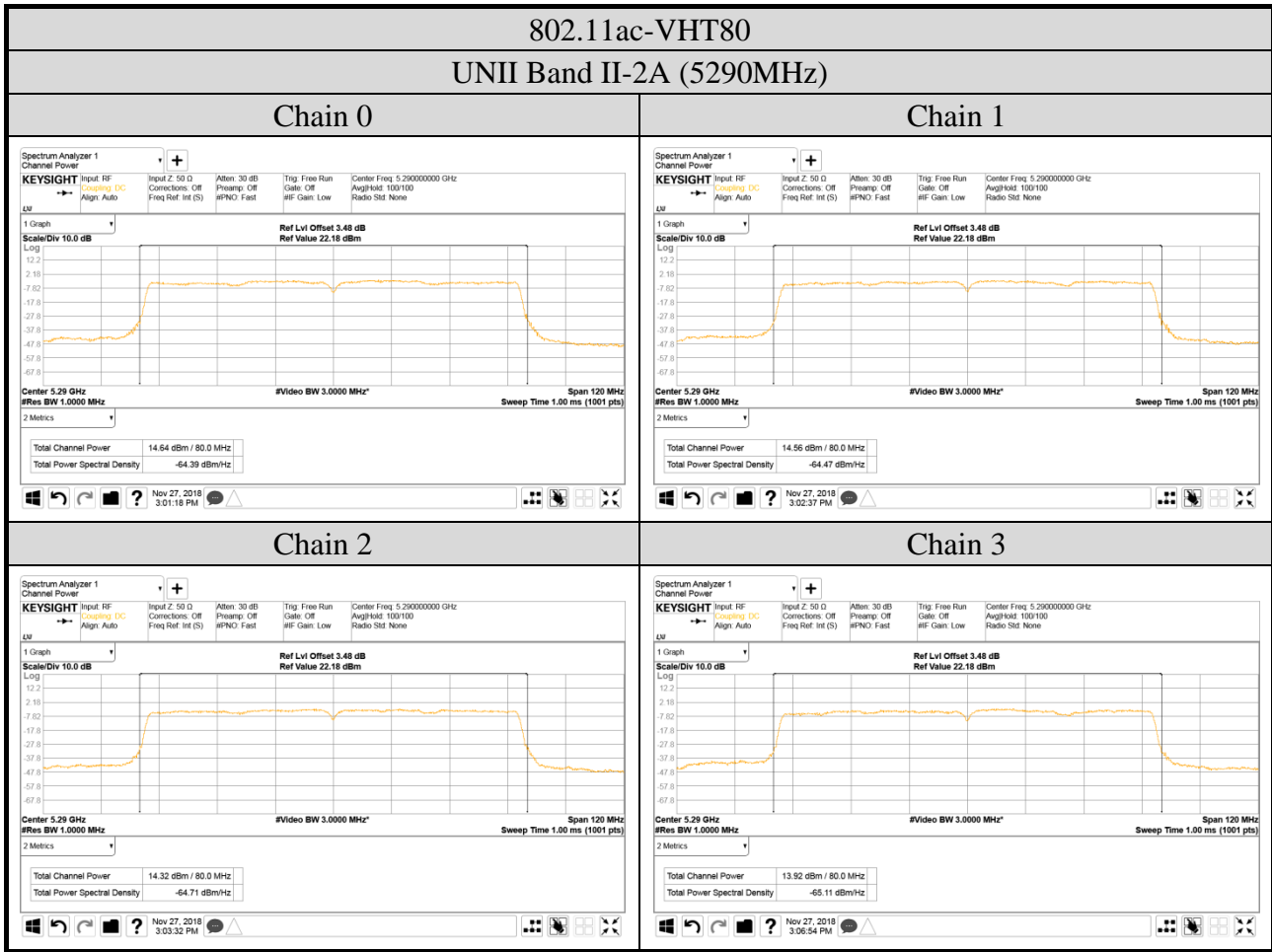
Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)				10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1	Chain 2	Chain 3		(dBm)	(W)	
802.11ac-VHT80	I	5210	13.45	13.00	12.92	14.00	2.38	21.77	0.150	< 250 mW (24 dBm)
	II-2A	5290	14.12	14.14	14.18	13.58		22.41	0.174	
		5530	14.93	13.39	13.41	14.33		22.47	0.177	
	II-2C	5610	13.82	12.82	12.83	13.11		21.57	0.144	
		III	5775	19.25	19.89	19.49		19.32	27.90	0.617

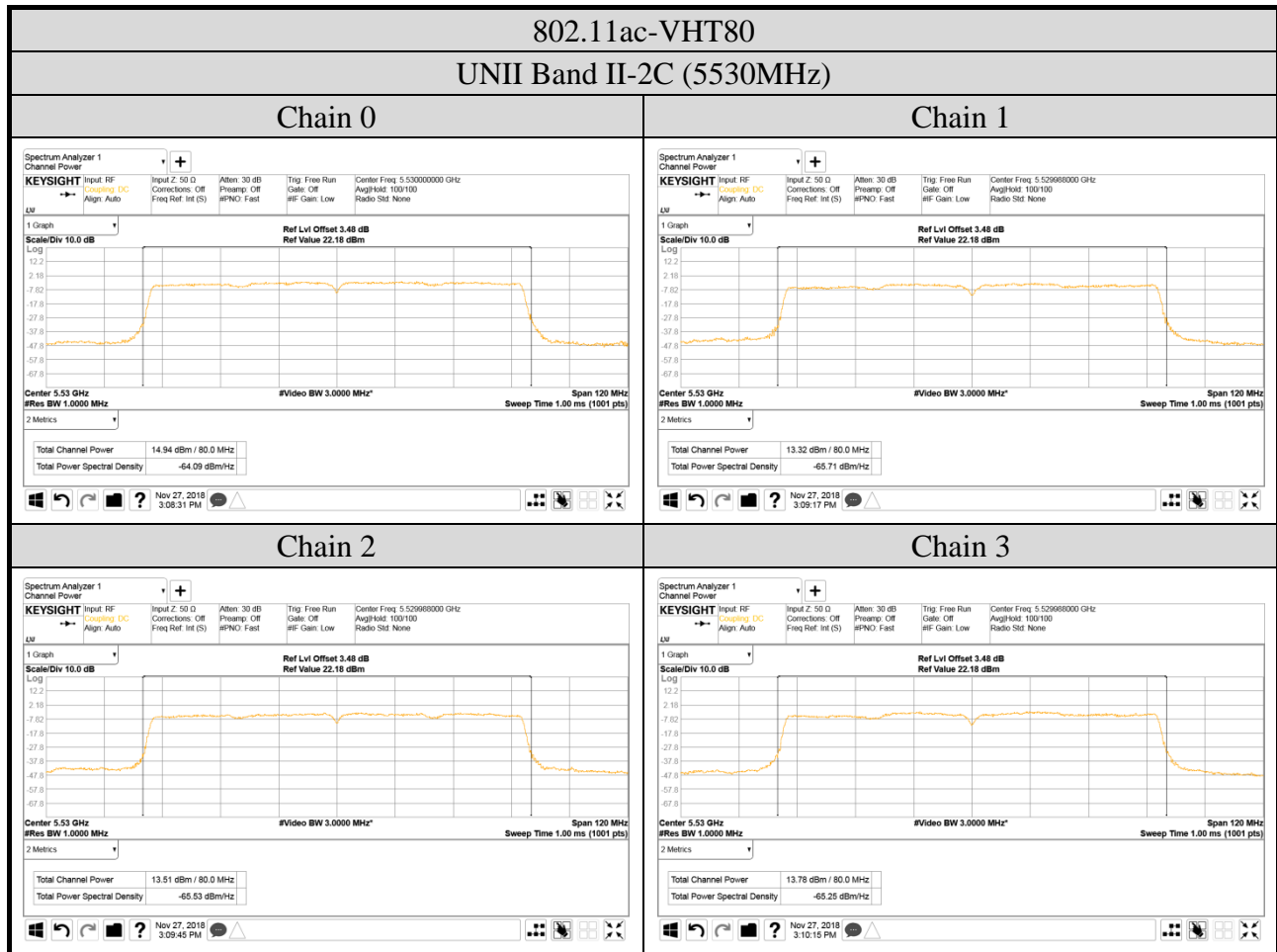
Note: 1. The results have been included cable loss.

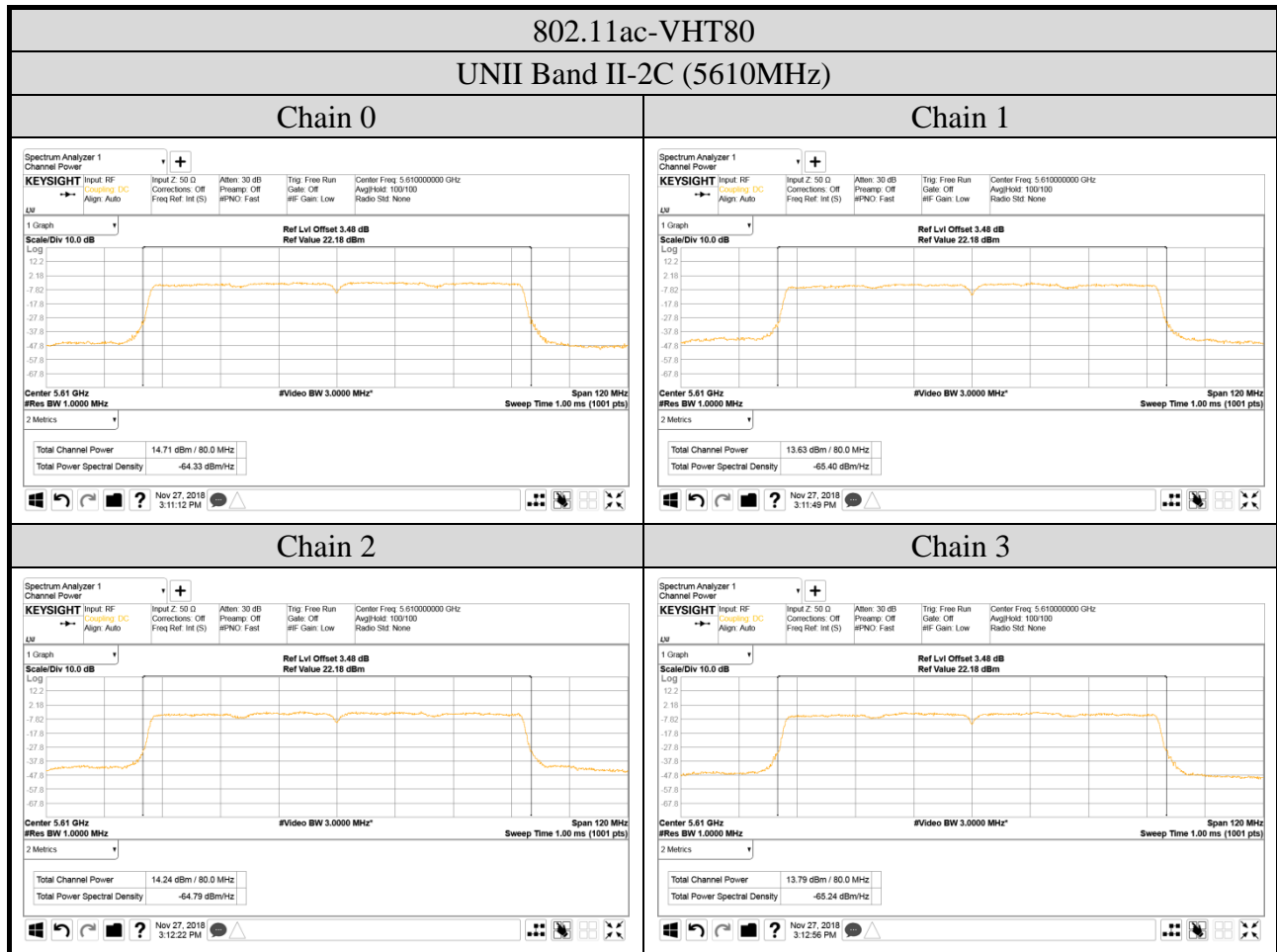
A.4.2 Measurement Plots

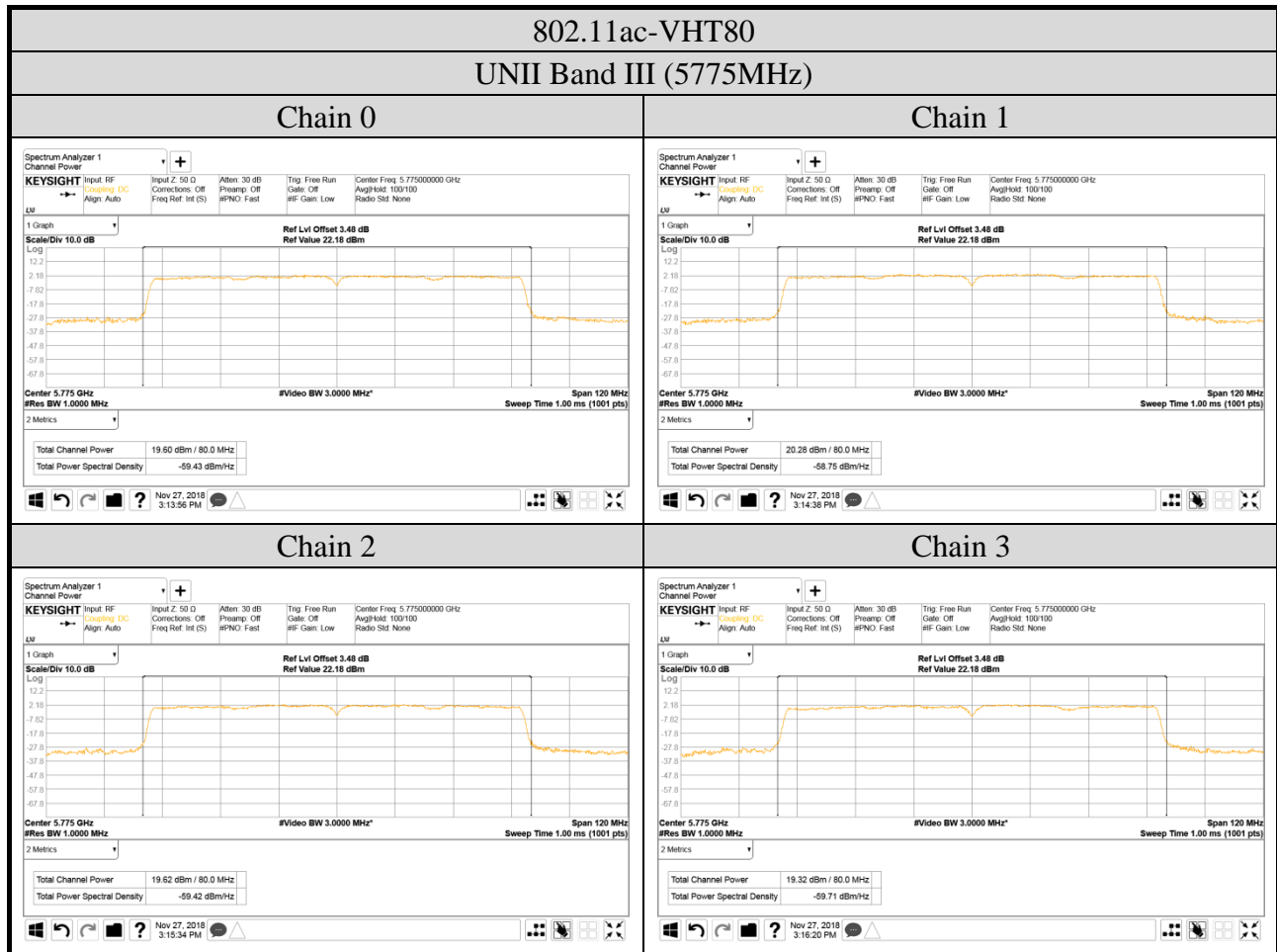
- CDD Mode



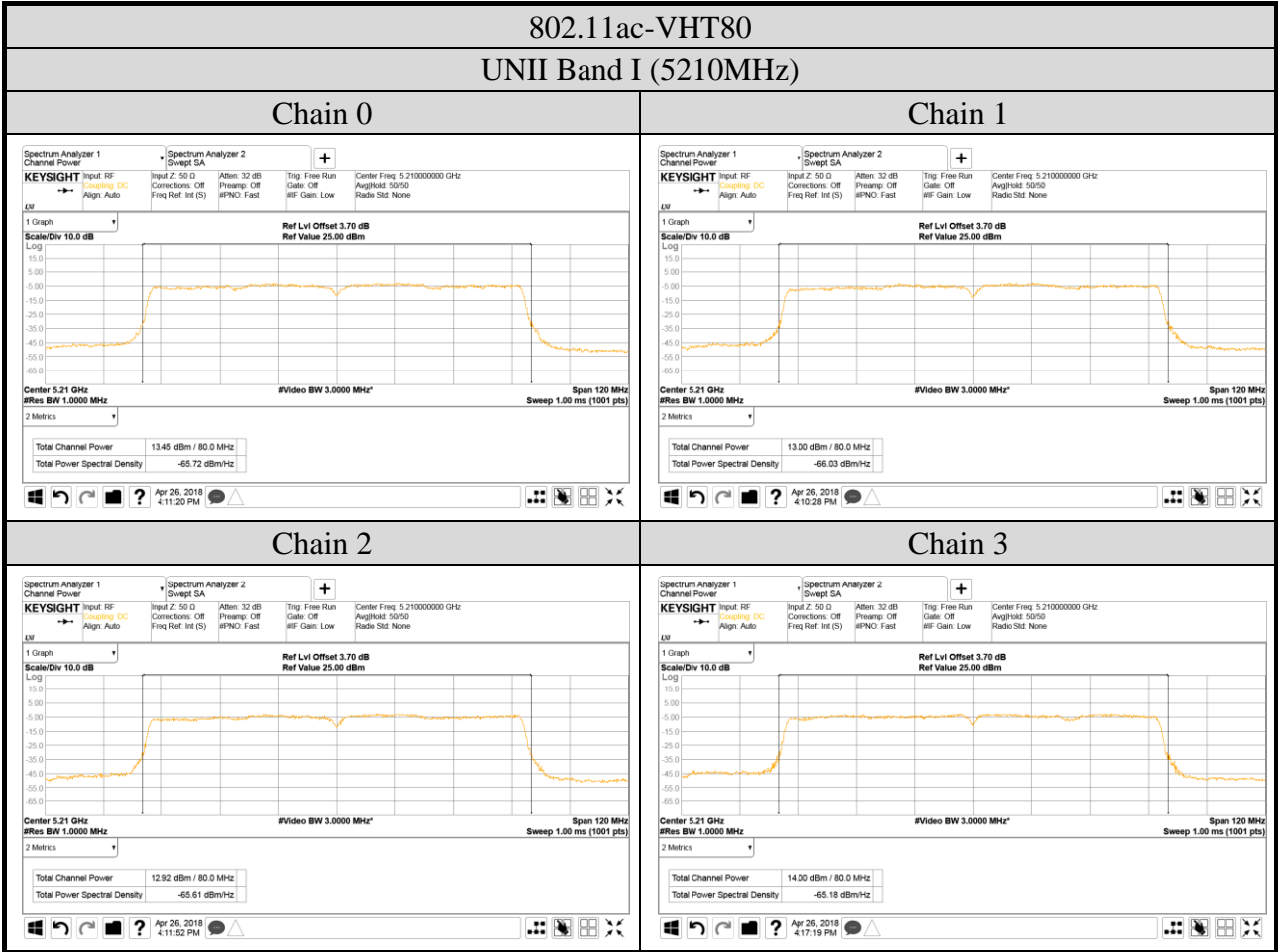


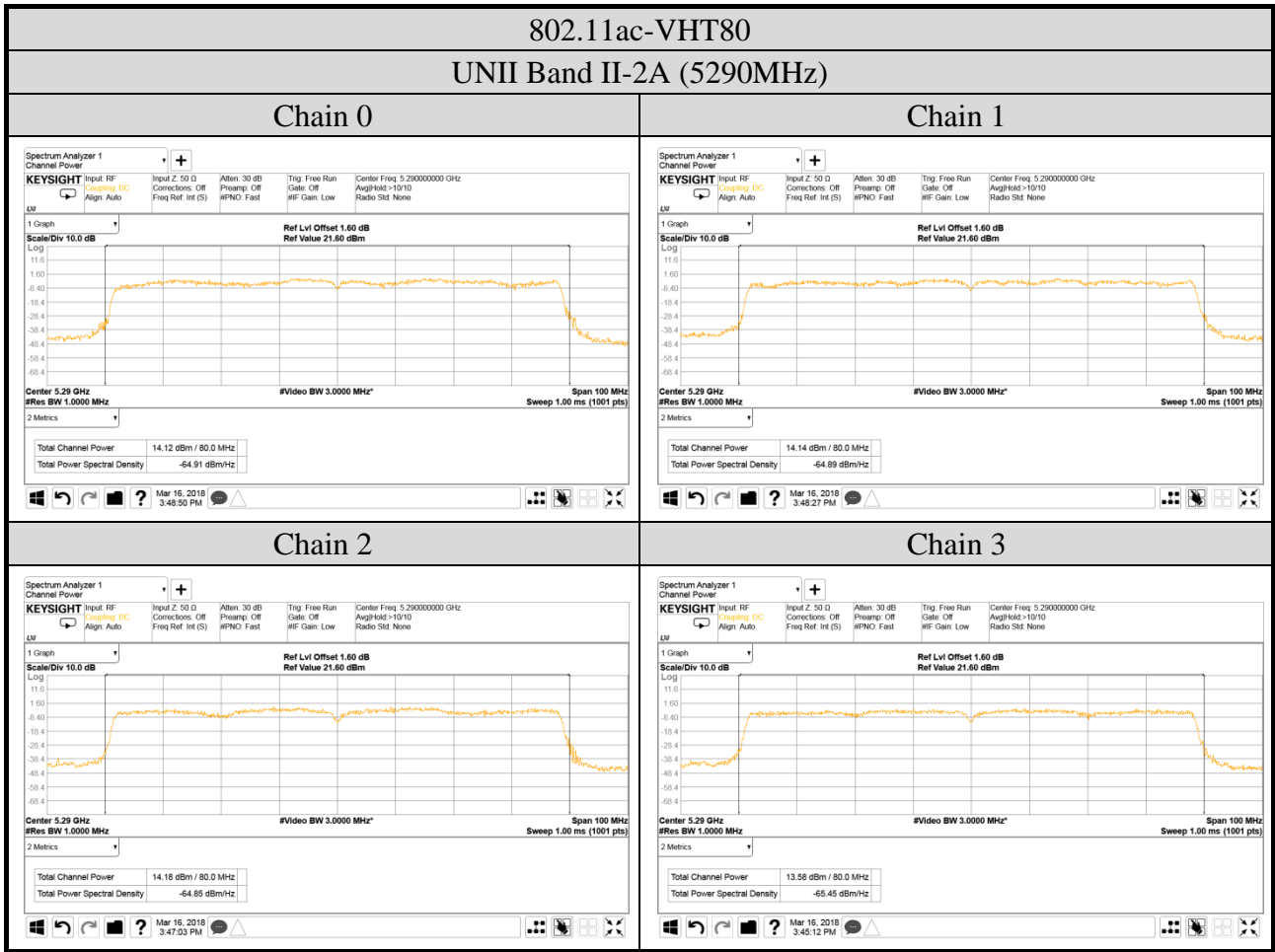


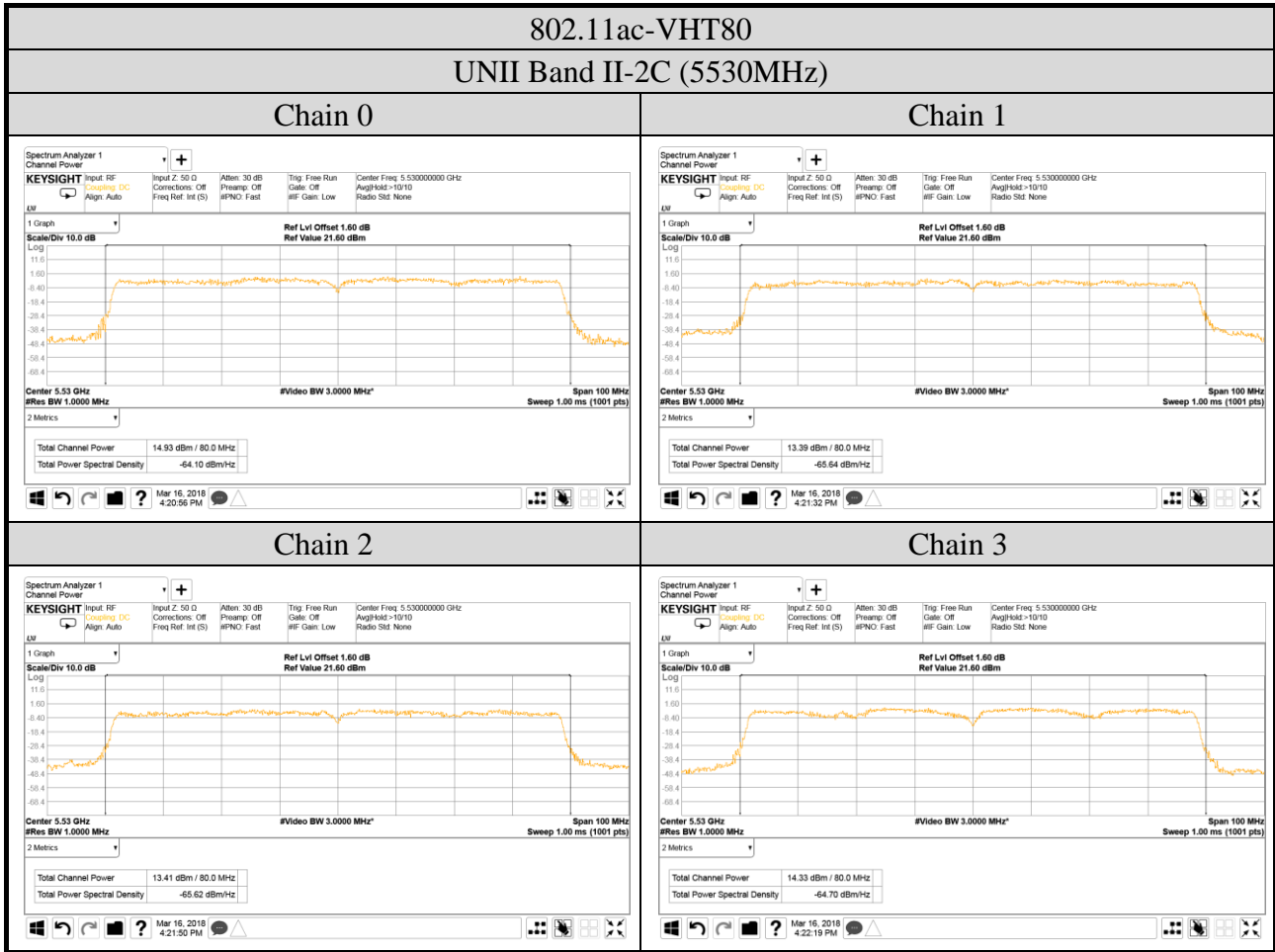


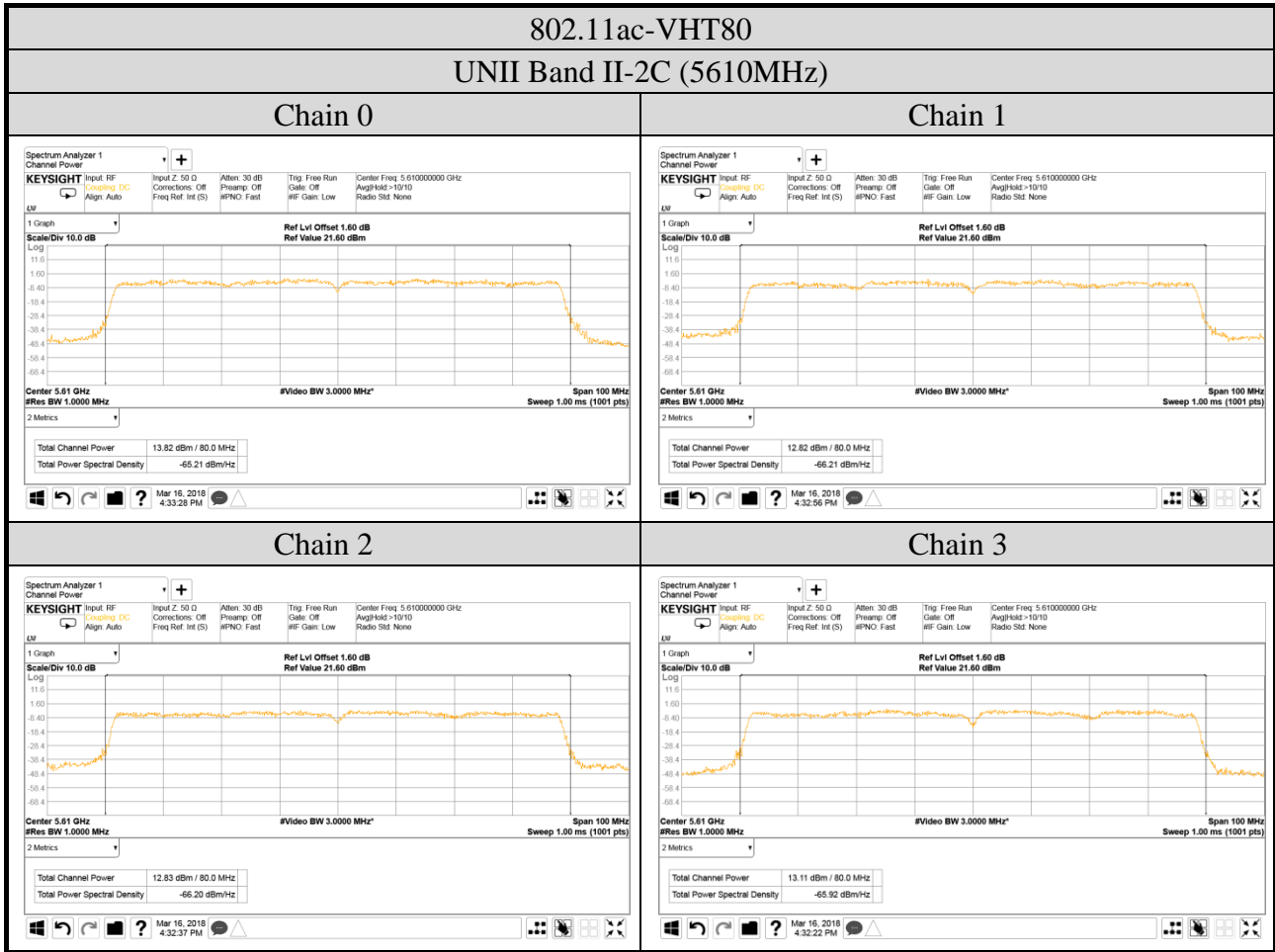


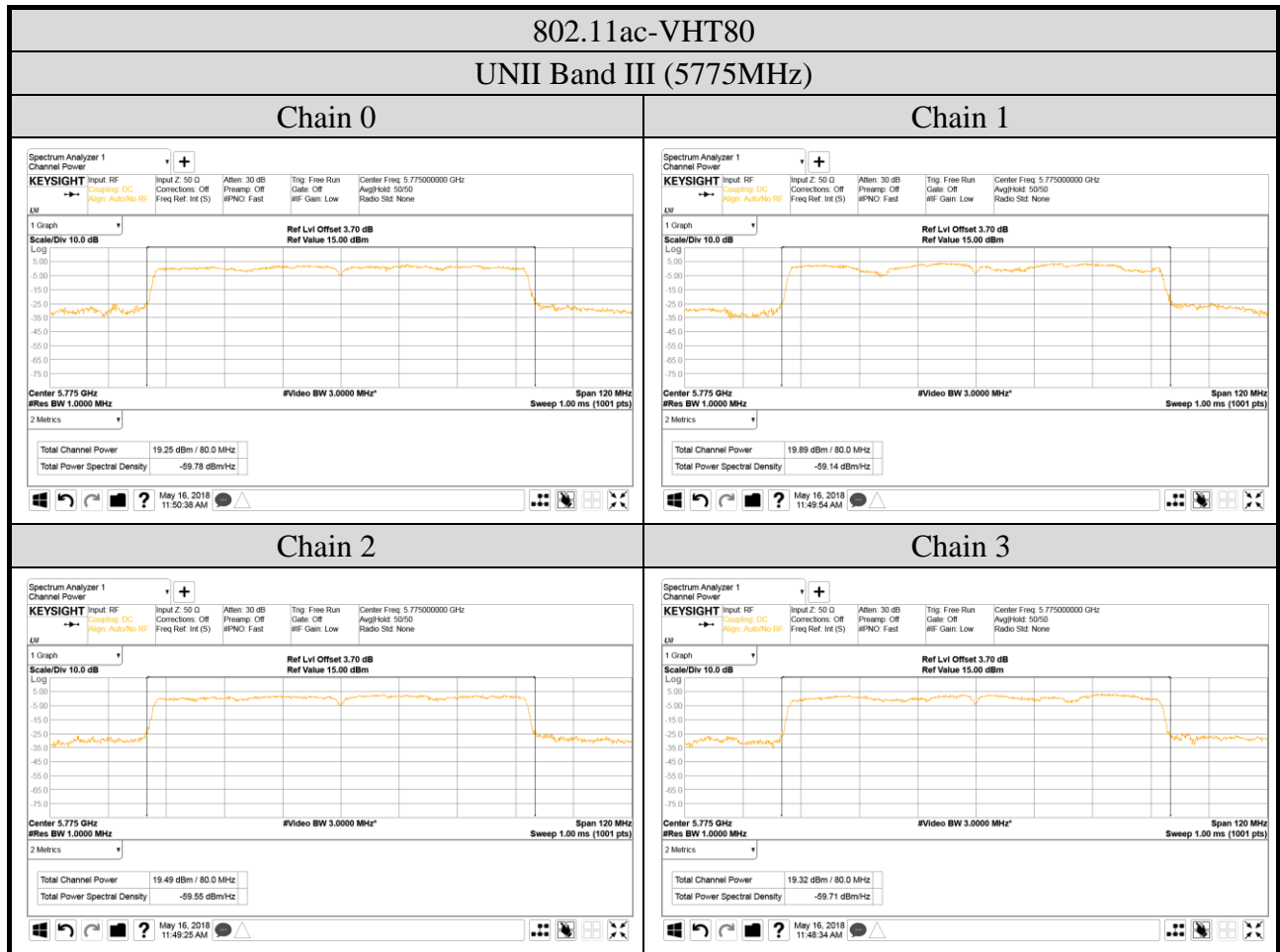
● **SDM Mode**





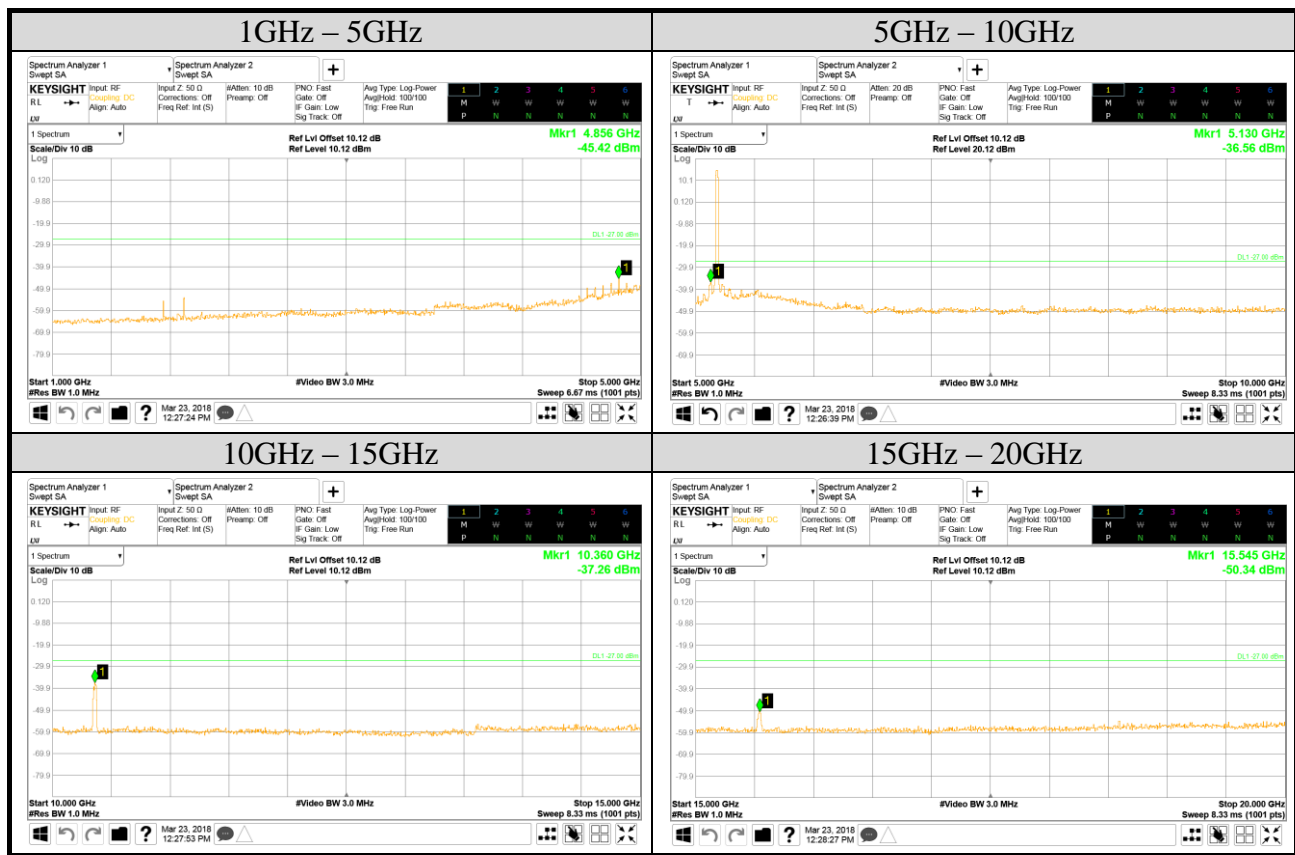


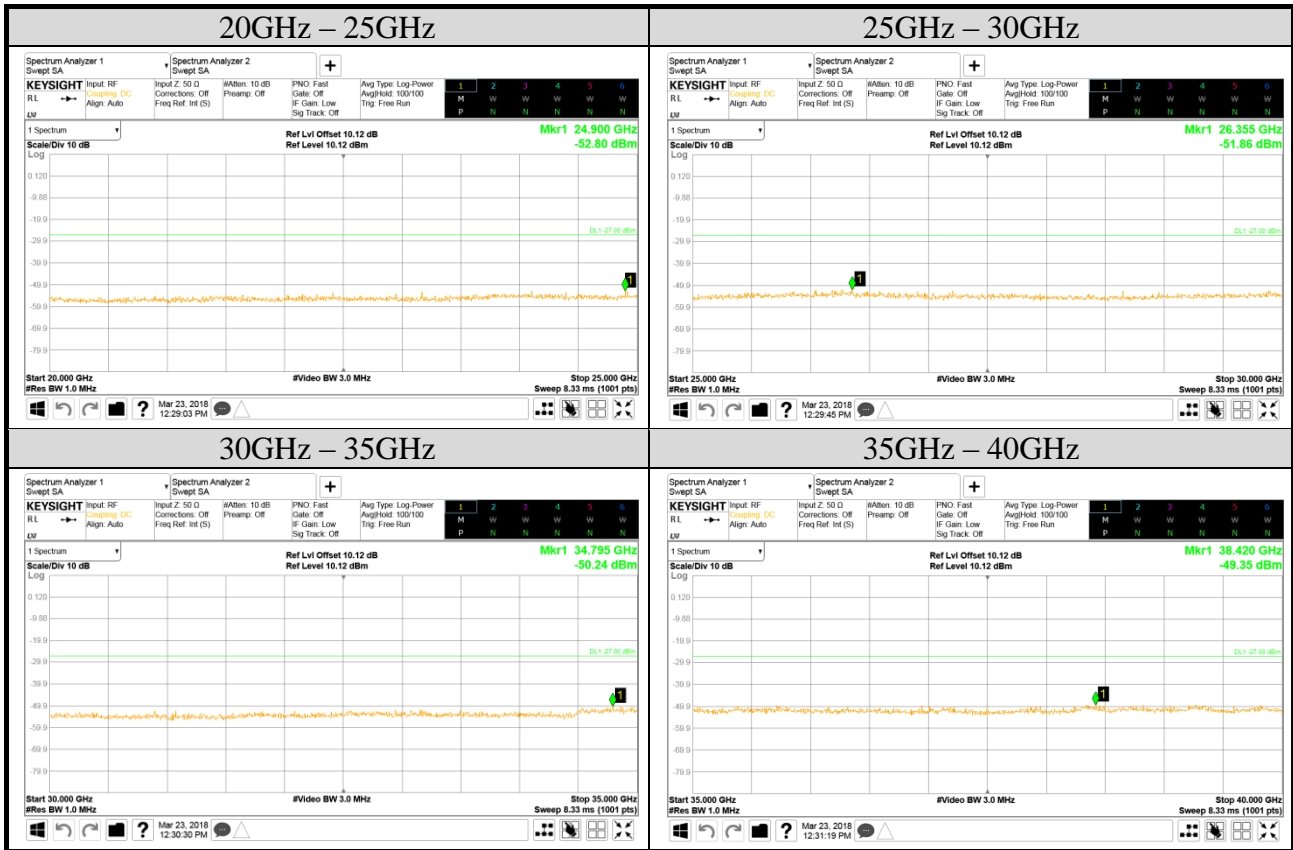




A.5 EMISSION LIMITATIONS MEASUREMENT

Test Date	2018/03/23	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz
Cable Loss	1.74dB	Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		6.02	





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Test Date	2018/03/23	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	I
Cable Loss	1.74dB	Frequency	TX 5200MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
			6.02



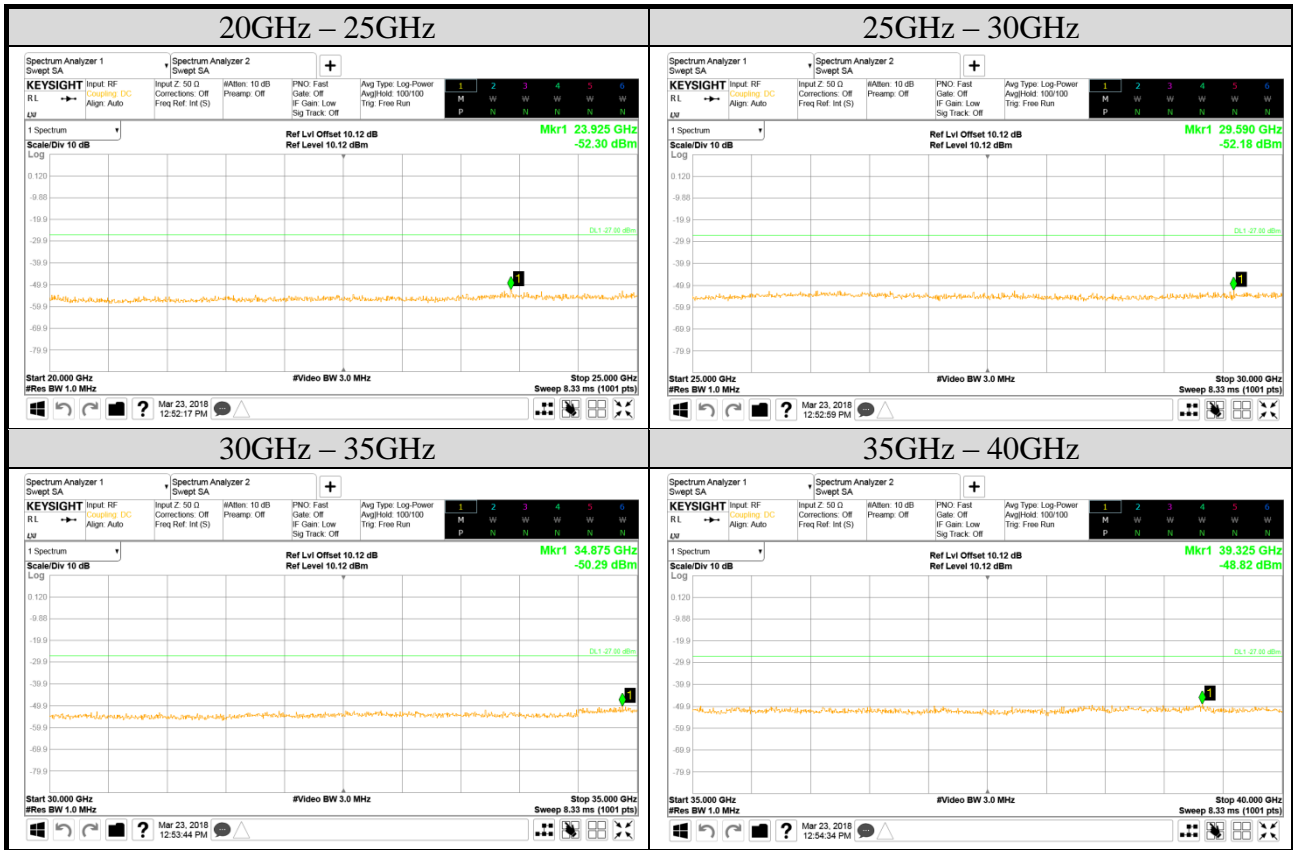


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Test Date	2018/03/23	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	I
Cable Loss	1.74dB	Frequency	TX 5240MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
			6.02





Test Date	2018/03/23	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	II-2A
Cable Loss	1.74dB	Frequency	TX 5260MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
			6.02





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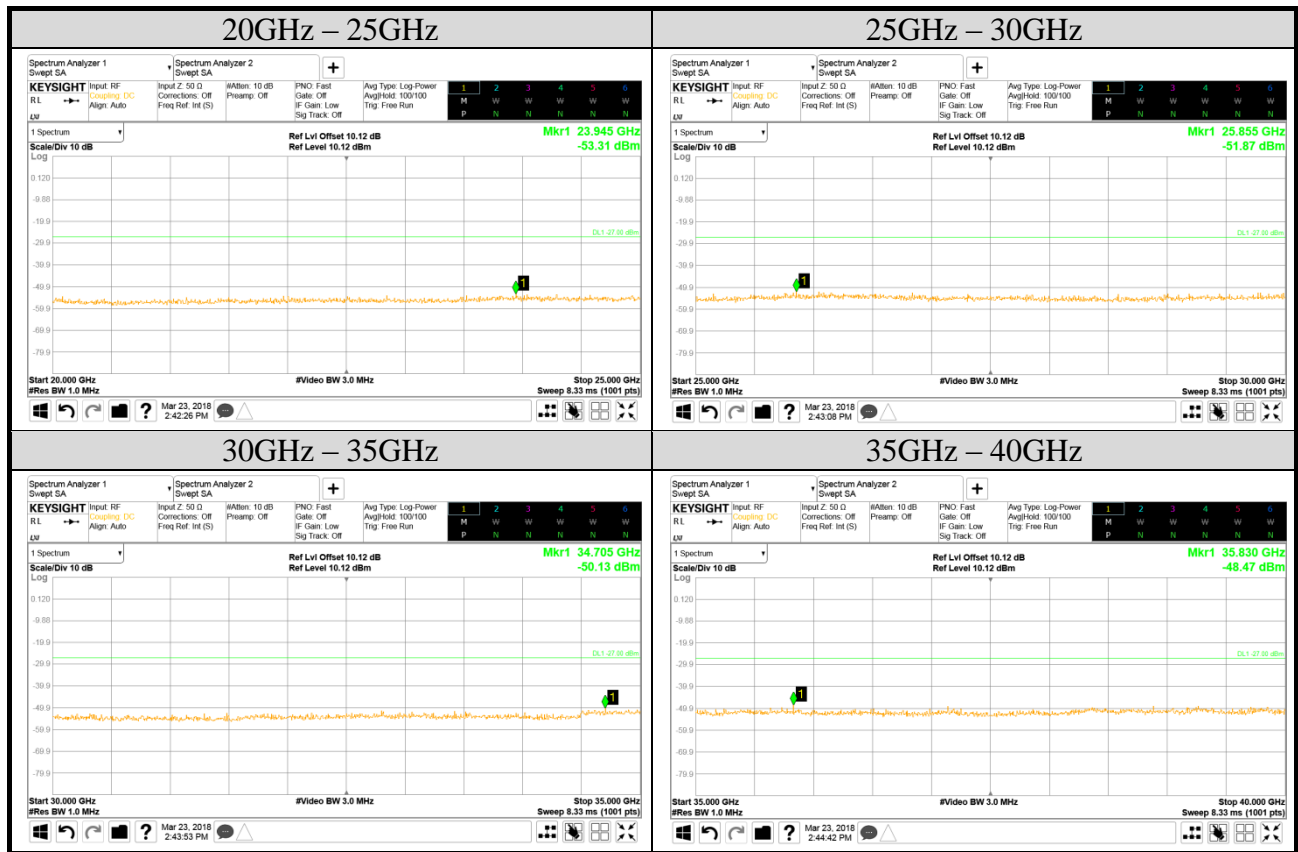
Test Date	2018/03/23	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5300MHz
Cable Loss	1.74dB	Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		6.02	





Test Date	2018/03/23	Temp./Hum.	25°C /54%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz
Cable Loss	1.74dB	Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		6.02	





Test Date	2018/03/23	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	II-2C
Cable Loss	1.74dB	Frequency	TX 5500MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
			6.02

