

A.3 DTS/OCCUPIED BANDWIDTH

Test Date	2022/02/21 ~ 21	Temp./Hum.	14 ~ 17°C/72 ~ 74%
Cable Loss	0.8dB	Tested By	Martin Chen
Test Voltage	AC 120V/60Hz		

A.3.1 Emission Bandwidth Result

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
802.11b	2412	9.150	13.195	>500kHz
	2442	9.150	13.203	
	2462	9.157	13.200	
	2472	9.154	13.200	
802.11g	2412	16.48	16.728	
	2442	16.48	16.733	
	2462	16.48	16.866	
	2472	16.44	16.837	
802.11n-HT20	2412	17.60	17.590	
	2442	17.60	17.600	
	2462	17.60	17.597	
	2472	17.57	17.509	
802.11n-HT40	2422	34.30	35.139	
	2442	34.30	35.215	
	2452	34.30	35.202	
	2462	33.48	35.005	

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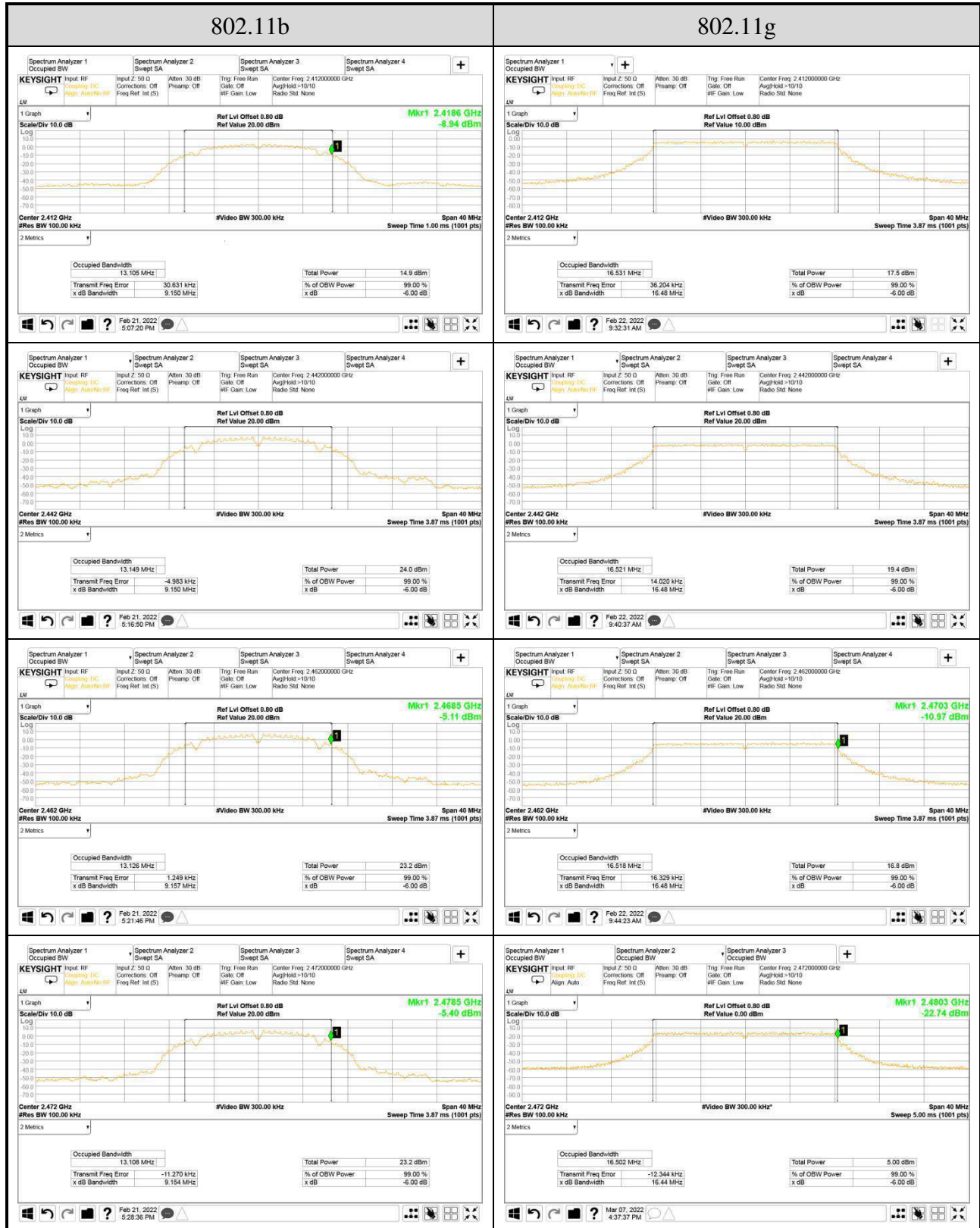
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Fax: +886 2 26099303

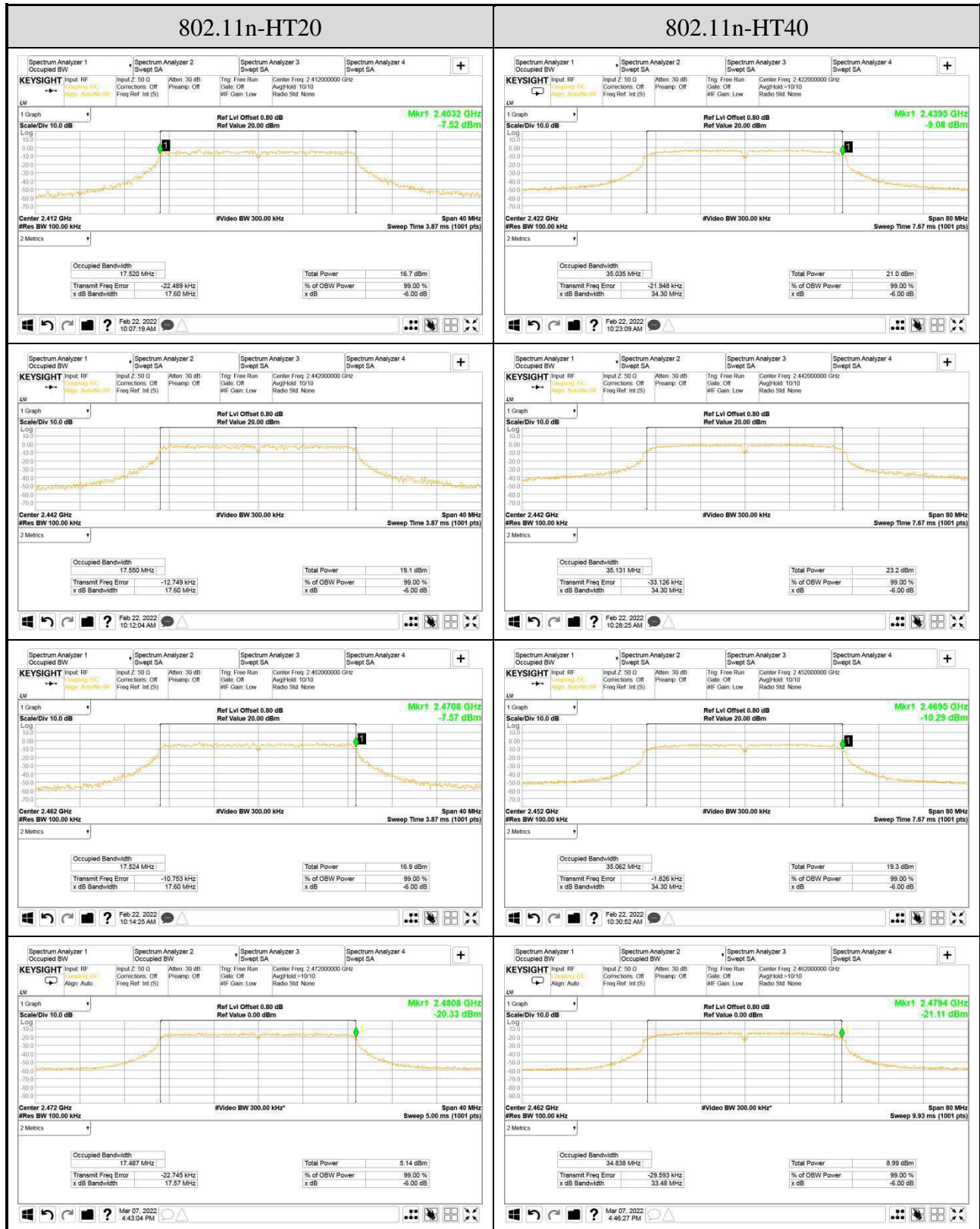
A.3.2 Measurement Plots

● DTS (6dB) Bandwidth



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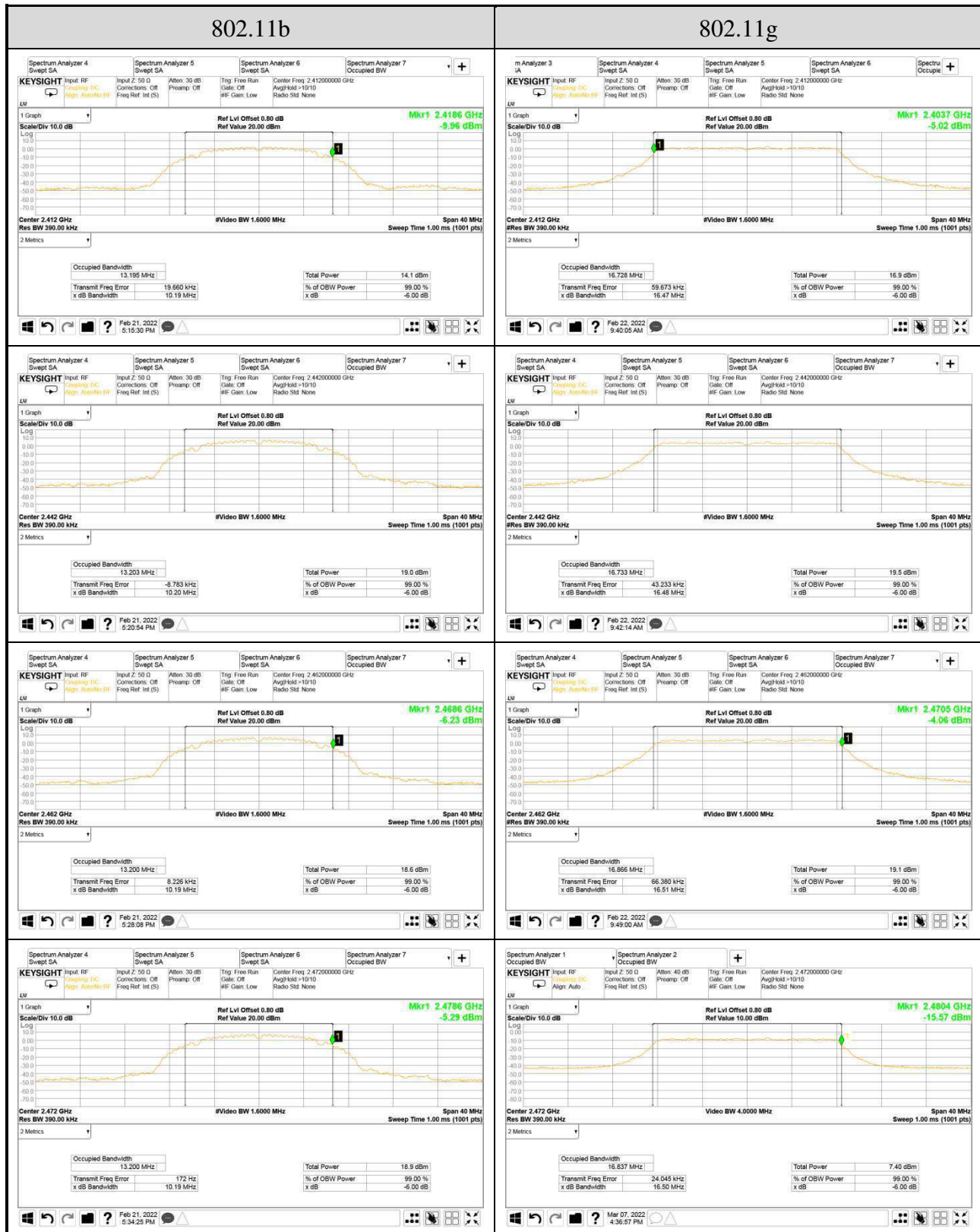
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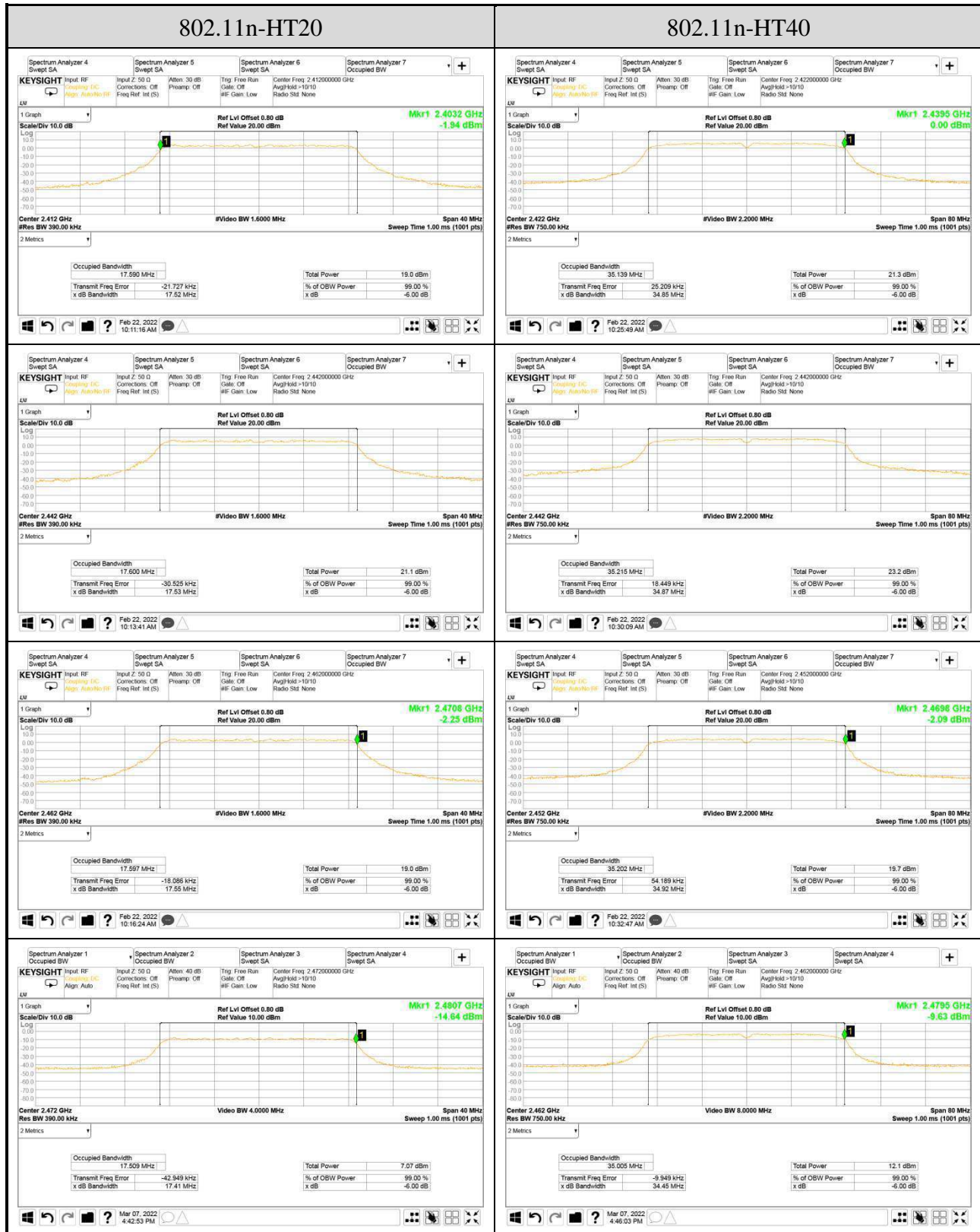
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● Occupied (99%) Bandwidth



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New Taipei City 244, Taiwan

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Fax: +886 2 26099303



A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2022/02/21	Temp./Hum.	14°C/74%
Cable Loss	0.8dB	Tested By	Martin Chen
Test Voltage	AC 120V/60Hz		

A.4.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11b	2412	15.05	0.032	2.0	17.05	0.051	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	19.83	0.096		21.83	0.152	
	2442	19.86	0.097		21.86	0.153	
	2462	19.76	0.095		21.76	0.150	
	2467	19.79	0.095		21.79	0.151	
	2472	19.78	0.095		21.78	0.151	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11g	2412	17.73	0.059	2.0	19.73	0.094	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	20.47	0.111		22.47	0.177	
	2442	20.49	0.112		22.49	0.177	
	2457	20.45	0.111		22.45	0.176	
	2462	18.57	0.072		20.57	0.114	
	2467	18.53	0.071		20.53	0.113	
	2472	7.15	0.005		9.15	0.008	

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New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	18.31	0.068	2.0	20.31	0.107	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	20.91	0.123		22.91	0.195	
	2442	20.88	0.122		22.88	0.194	
	2457	20.83	0.121		22.83	0.192	
	2462	19.18	0.083		21.18	0.131	
	2467	19.05	0.080		21.05	0.127	
	2472	7.75	0.006		9.75	0.009	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	19.91	0.098	2.0	21.91	0.155	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	21.78	0.151		23.78	0.239	
	2442	21.74	0.149		23.74	0.237	
	2447	21.38	0.137		23.38	0.218	
	2452	18.91	0.078		20.91	0.123	
	2457	18.88	0.077		20.88	0.122	
	2462	11.41	0.014		13.41	0.022	

Note: The results have been included cable loss.

A.4.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
				(dBm)	(W)		(dBm)	(W)	
802.11b	2412	12.04	0	12.04	0.016	2.0	14.04	0.025	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	17.02		17.02	0.050		19.02	0.080	
	2442	17.05		17.05	0.051		19.05	0.080	
	2462	16.95		16.95	0.050		18.95	0.079	
	2467	17.01		17.01	0.050		19.01	0.080	
	2472	17.00		17.00	0.050		19.00	0.079	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
				(dBm)	(W)		(dBm)	(W)	
802.11g	2412	12.05	0	12.05	0.016	2.0	14.05	0.025	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	15.01		15.01	0.032		17.01	0.050	
	2442	15.05		15.05	0.032		17.05	0.051	
	2457	15.00		15.00	0.032		17.00	0.050	
	2462	13.00		13.00	0.020		15.00	0.032	
	2467	12.99		12.99	0.020		14.99	0.032	
	2472	1.26		1.26	0.001		3.26	0.002	

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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
				(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	12.04	0	12.04	0.016	2.0	14.04	0.025	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	15.00		15.00	0.032		17.00	0.050	
	2442	15.03		15.03	0.032		17.03	0.050	
	2457	14.96		14.96	0.031		16.96	0.050	
	2462	13.04		13.04	0.020		15.04	0.032	
	2467	13.00		13.00	0.020		15.00	0.032	
	2472	1.30		1.30	0.001		3.30	0.002	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
				(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	14.01	0	14.01	0.025	2.0	16.01	0.040	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	16.52		16.52	0.045		18.52	0.071	
	2442	16.51		16.51	0.045		18.51	0.071	
	2447	16.21		16.21	0.042		18.21	0.066	
	2452	13.03		13.03	0.020		15.03	0.032	
	2457	13.01		13.01	0.020		15.01	0.032	
	2462	5.57		5.57	0.004		7.57	0.006	

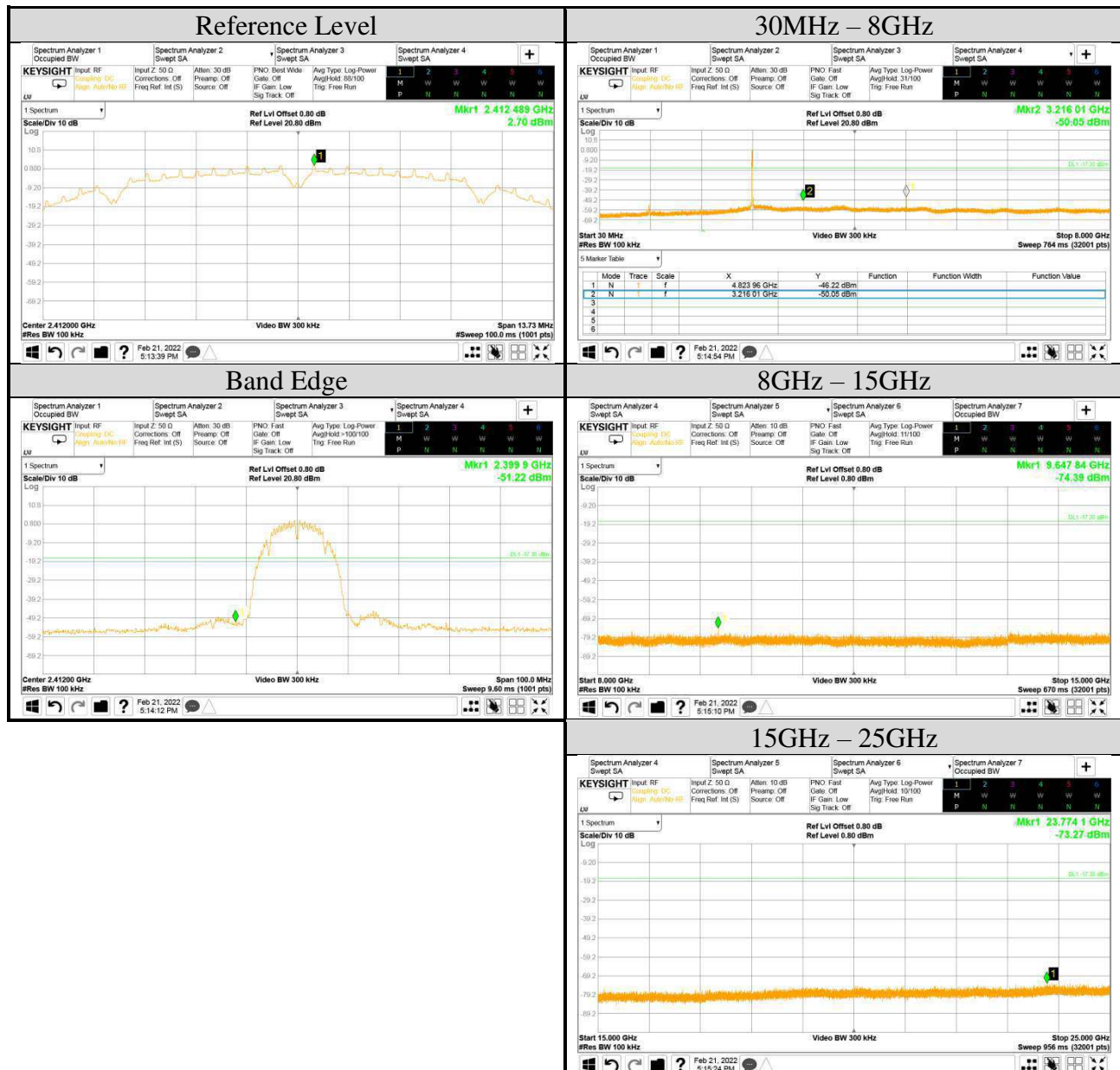
Note: The results have been included cable loss.

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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

A.5 EMISSION LIMITATIONS

Test Date	2022/02/21	Temp./Hum.	14°C/74%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11b	Tested By	Martin Chen
Frequency	TX 2412MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/02/21	Temp./Hum.	14°C/74%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11b	Tested By	Martin Chen
Frequency	TX 2442MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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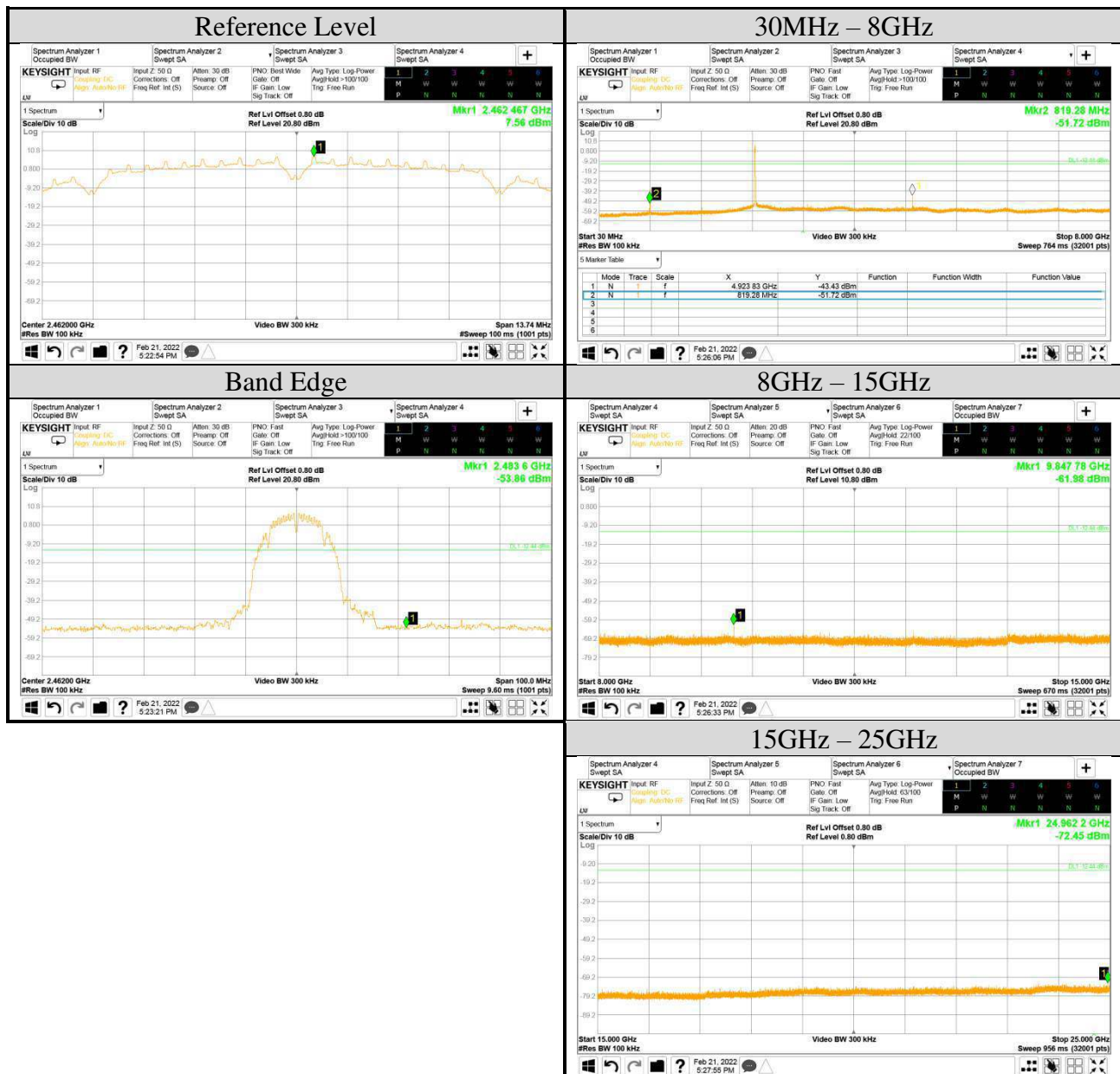
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Fax: +886 2 26099303

Test Date	2022/02/21	Temp./Hum.	14°C/74%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11b	Tested By	Martin Chen
Frequency	TX 2462MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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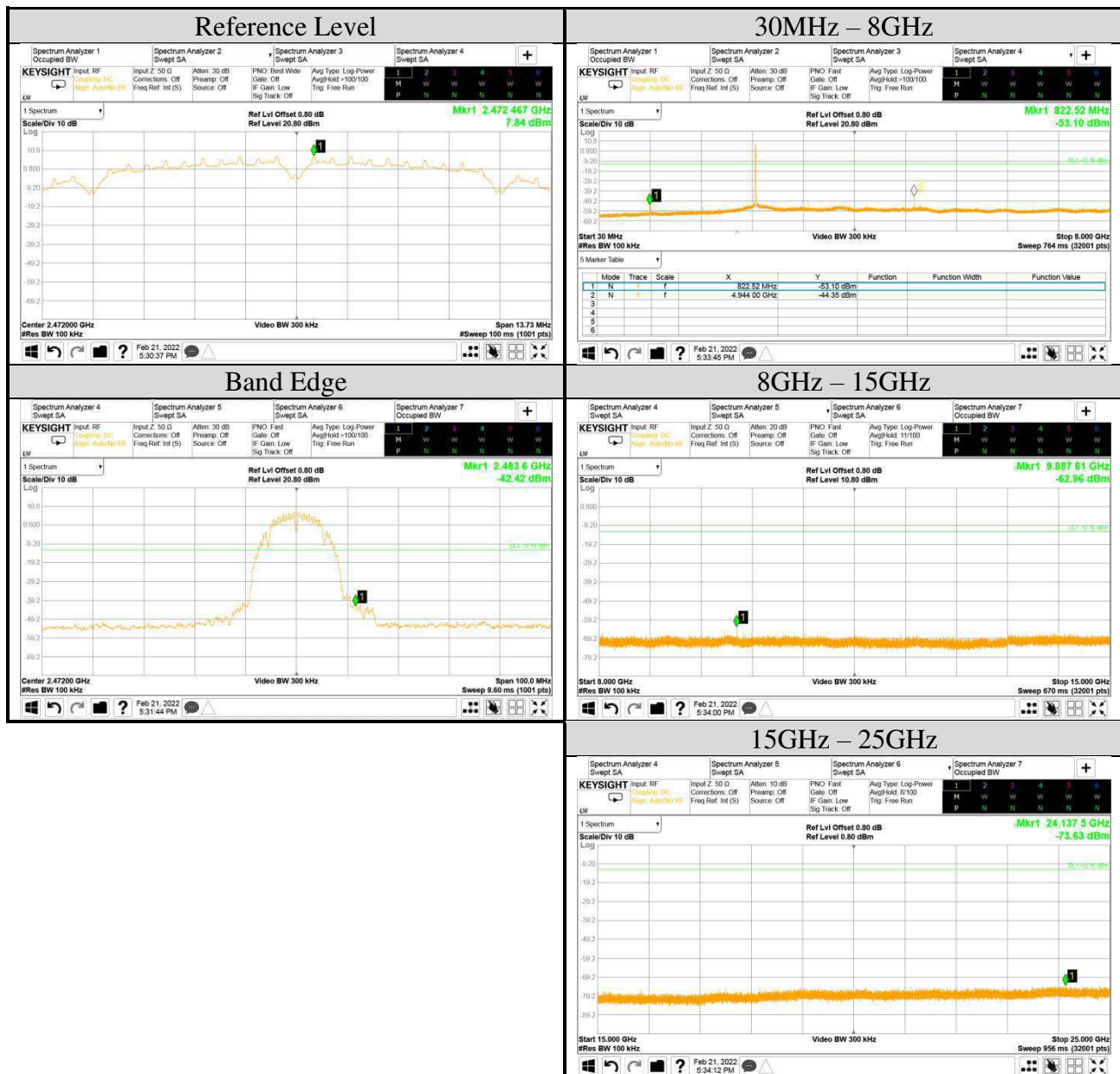
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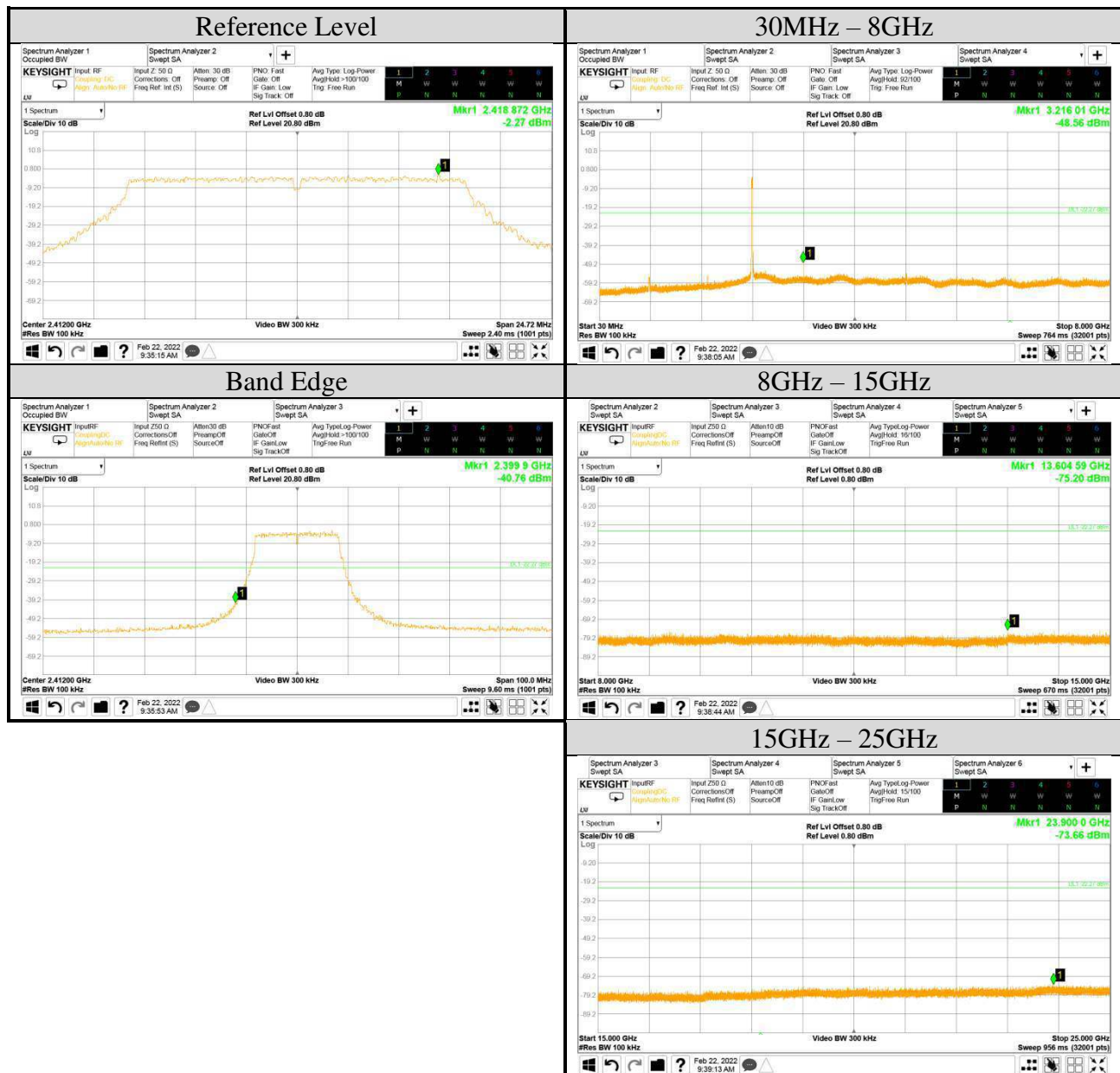
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Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11b	Tested By	Martin Chen
Frequency	TX 2472MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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Fax: +886 2 26099303

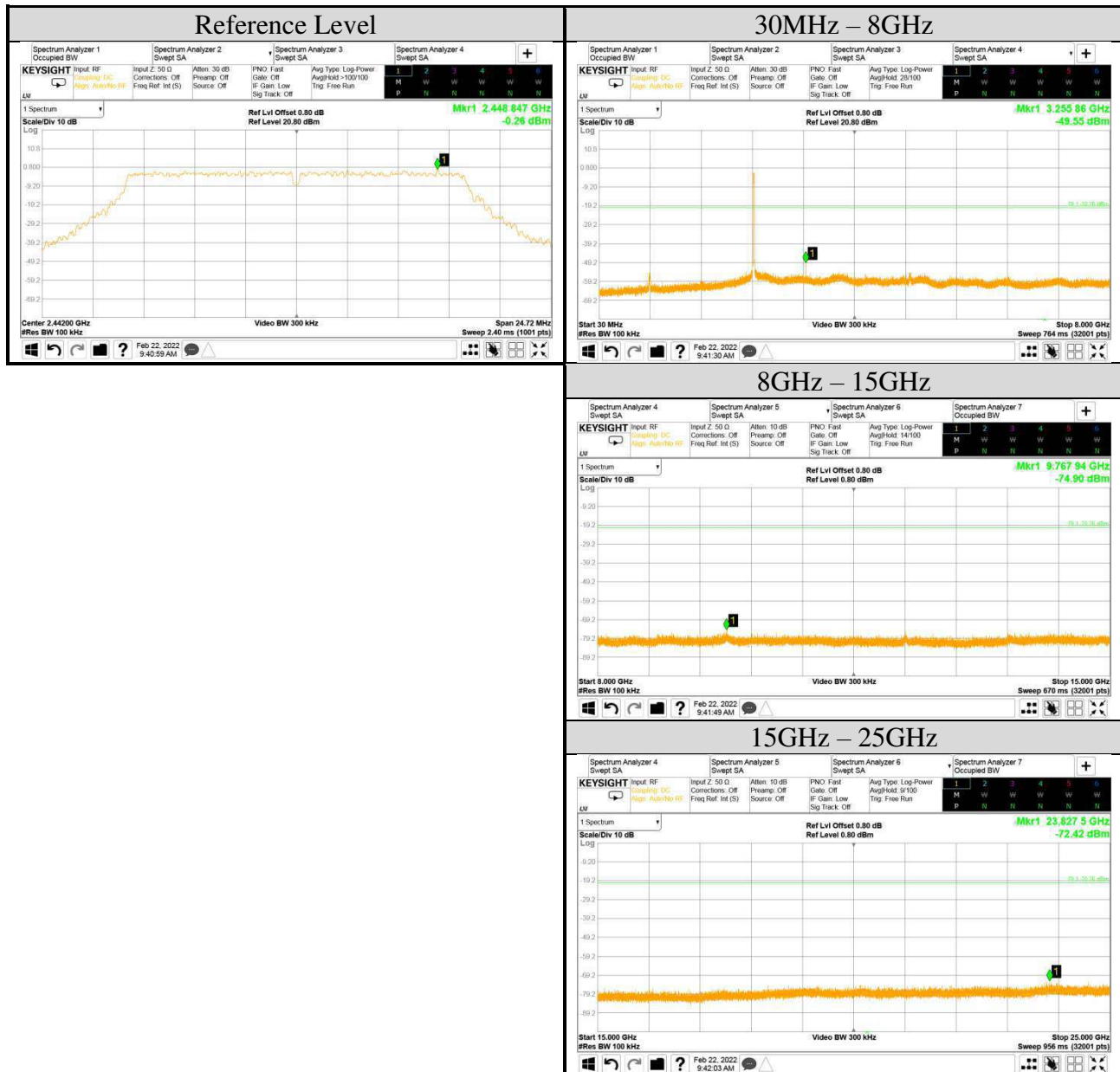
Test Date	2022/02/22	Temp./Hum.	17°C/72%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11g	Tested By	Martin Chen
Frequency	TX 2412MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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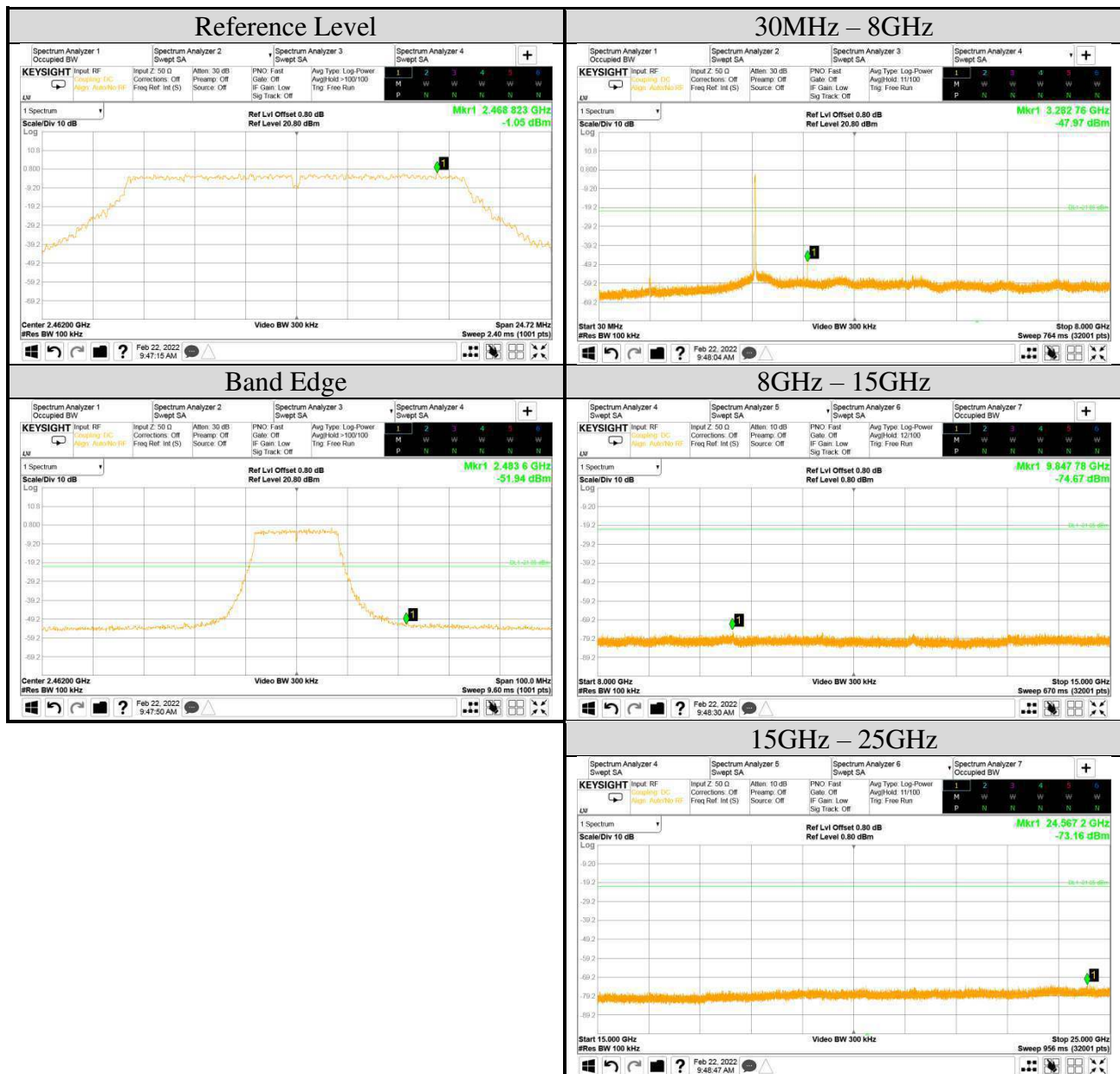
Test Date	2022/02/22	Temp./Hum.	17°C/72%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11g	Tested By	Martin Chen
Frequency	TX 2442MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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New Taipei City 244, Taiwan

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Fax: +886 2 26099303

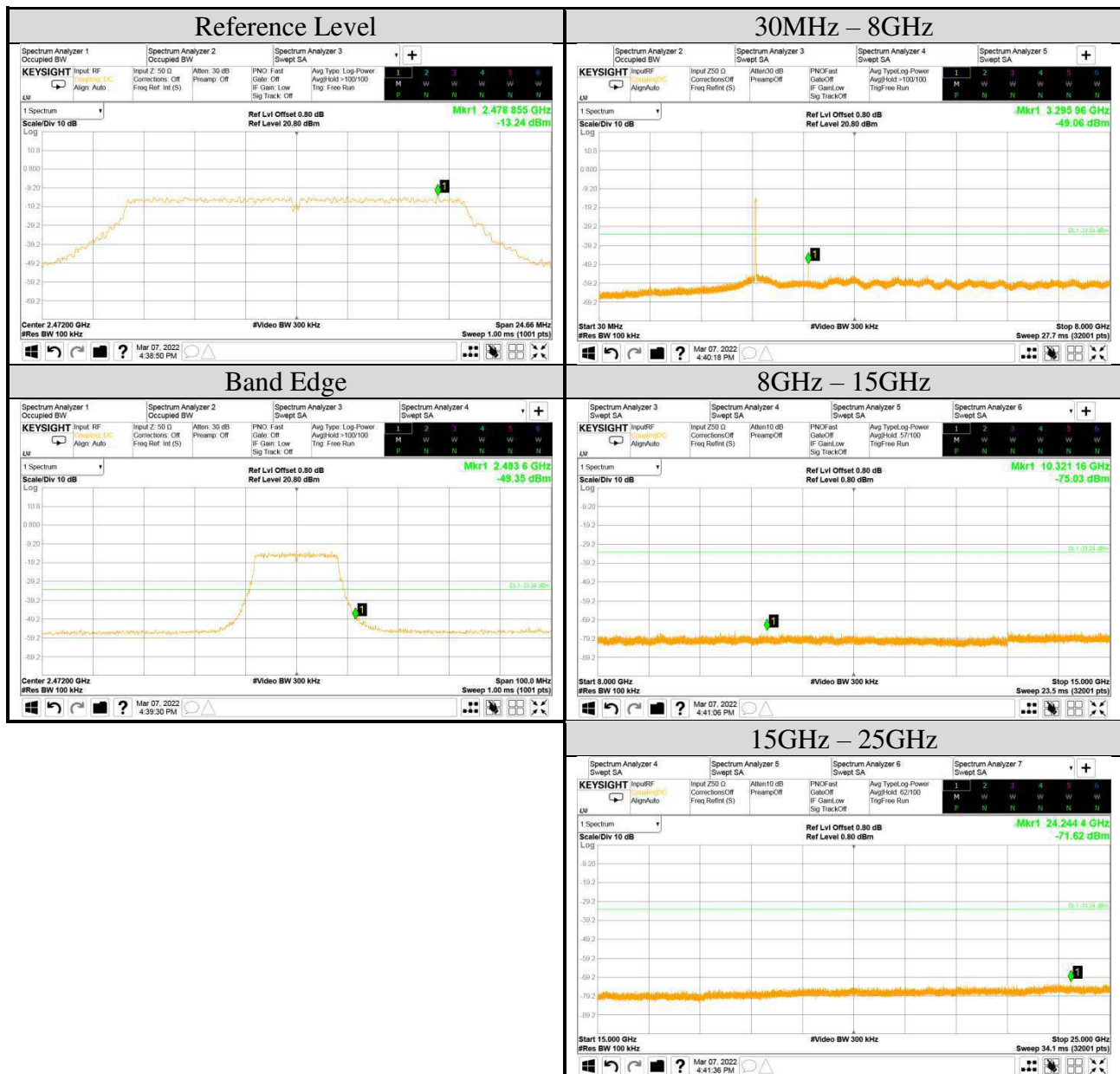
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Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11g	Tested By	Martin Chen
Frequency	TX 2462MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/03/07	Temp./Hum.	20°C/65%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11g	Tested By	Martin Chen
Frequency	TX 2472MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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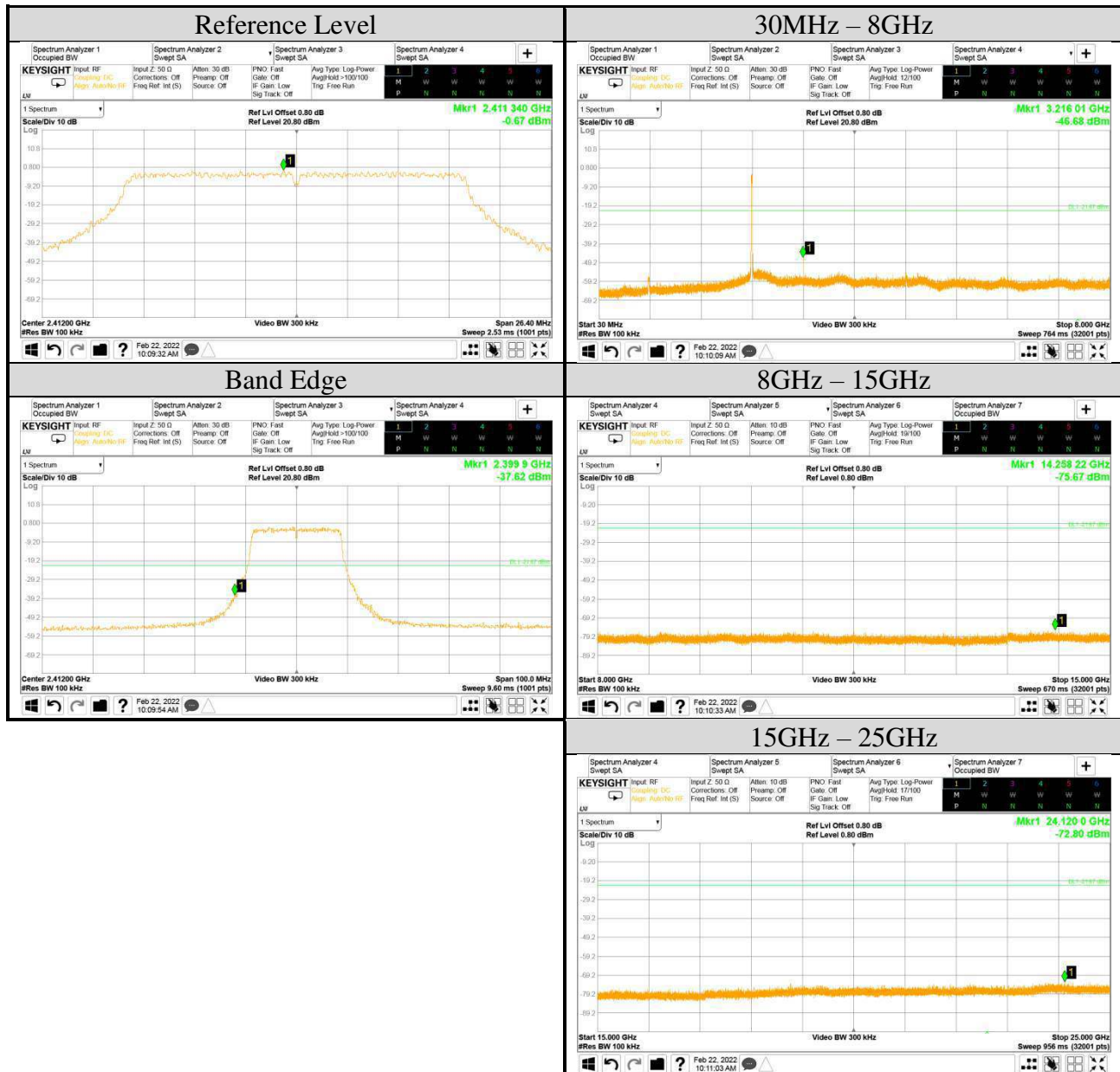
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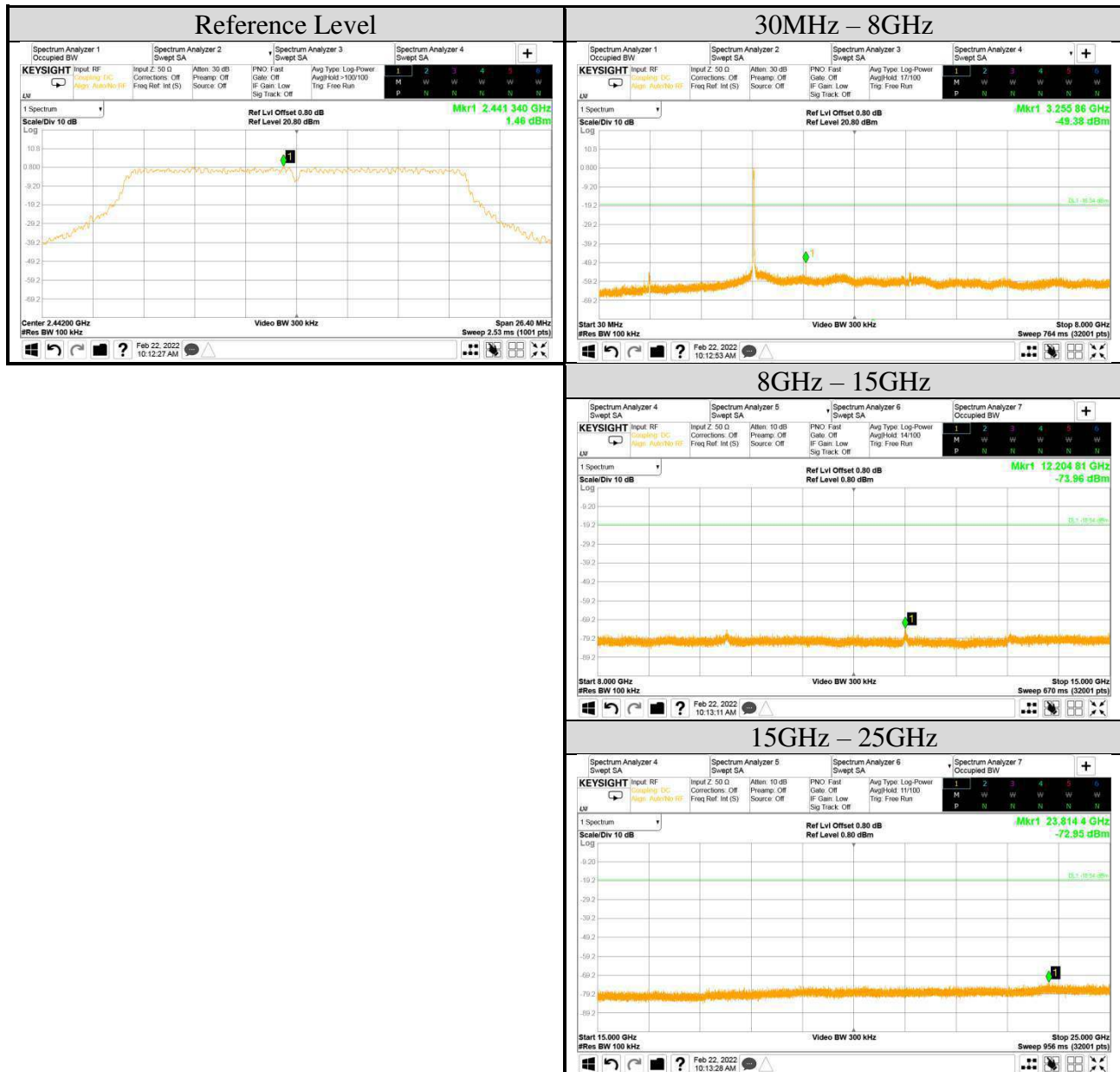
Test Date	2022/02/22	Temp./Hum.	17°C/72%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT20	Tested By	Martin Chen
Frequency	TX 2412MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/02/22	Temp./Hum.	17°C/72%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT20	Tested By	Martin Chen
Frequency	TX 2442MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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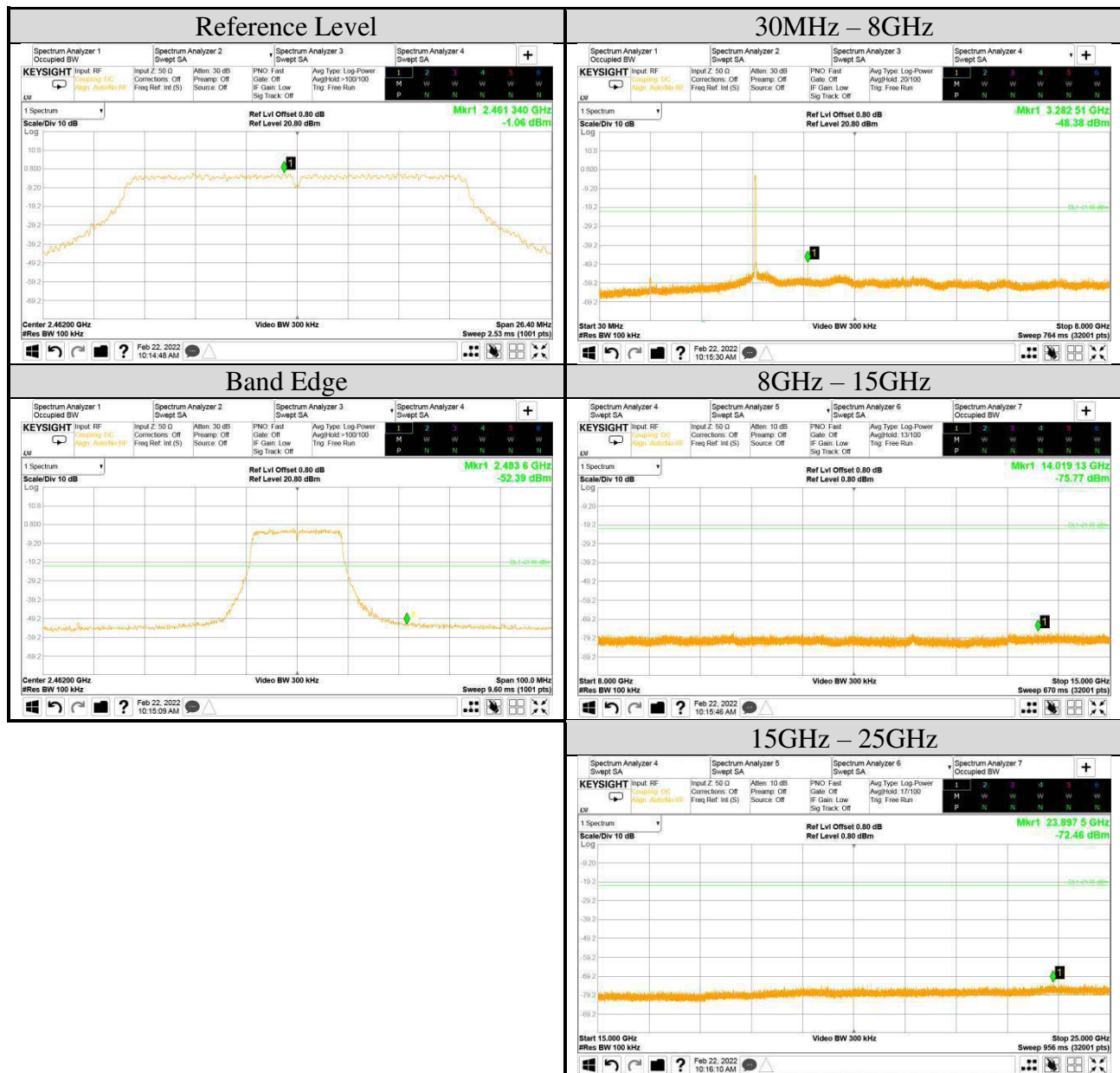
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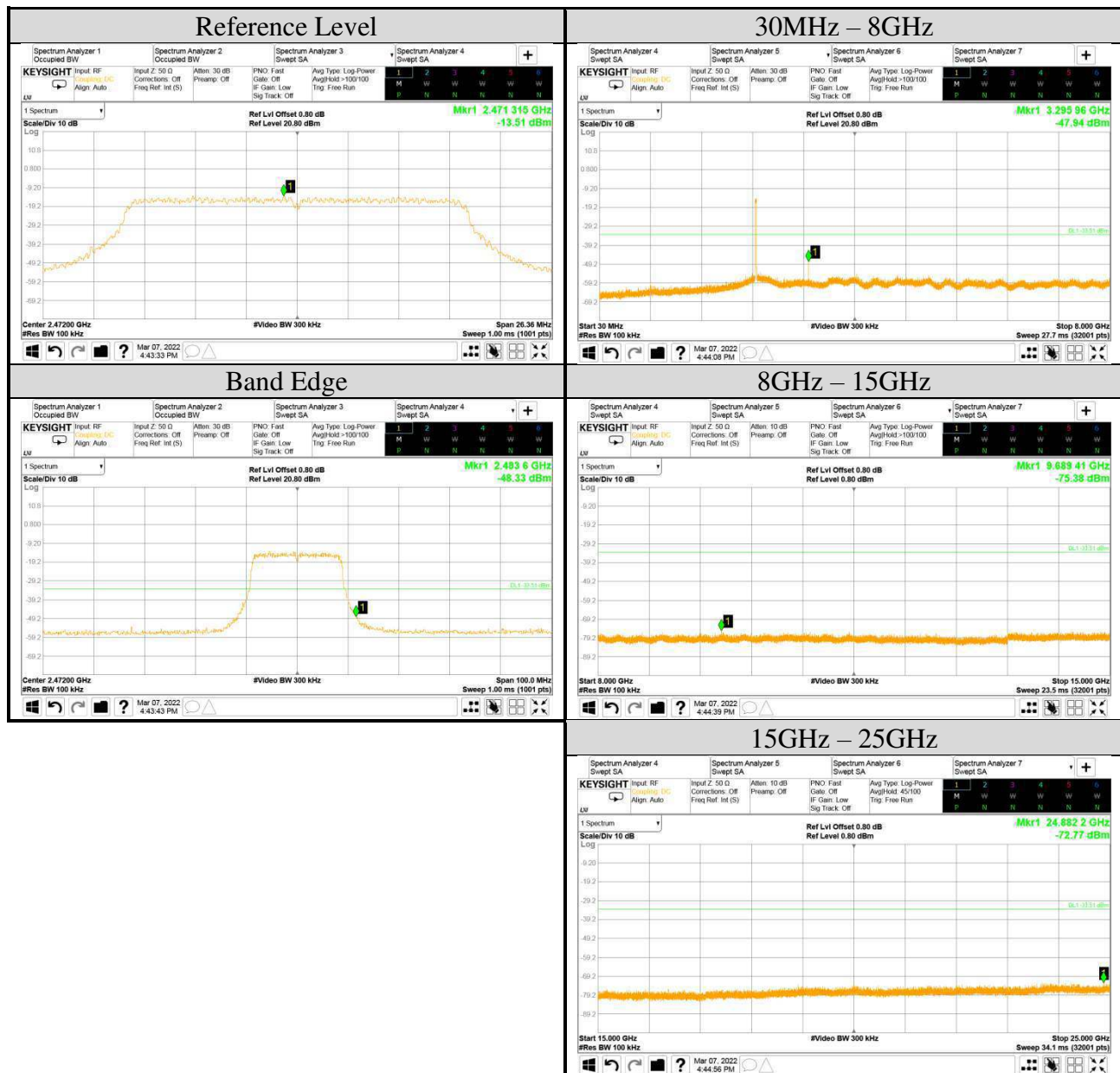
Test Date	2022/02/22	Temp./Hum.	17°C/72%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT20	Tested By	Martin Chen
Frequency	TX 2462MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/03/07	Temp./Hum.	20°C/65%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT20	Tested By	Martin Chen
Frequency	TX 2472MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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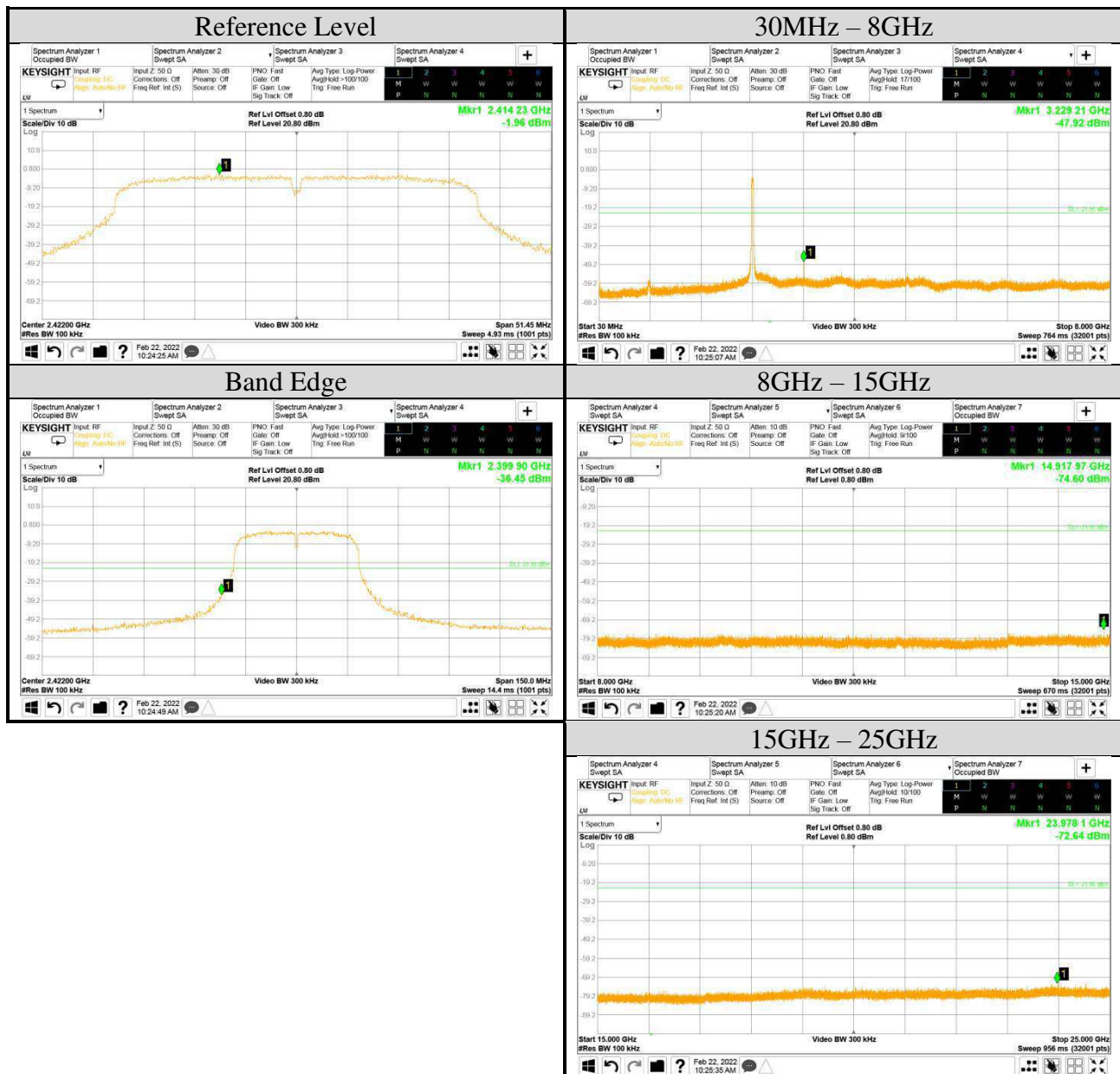
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New Taipei City244, Taiwan

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Fax: +886 2 26099303

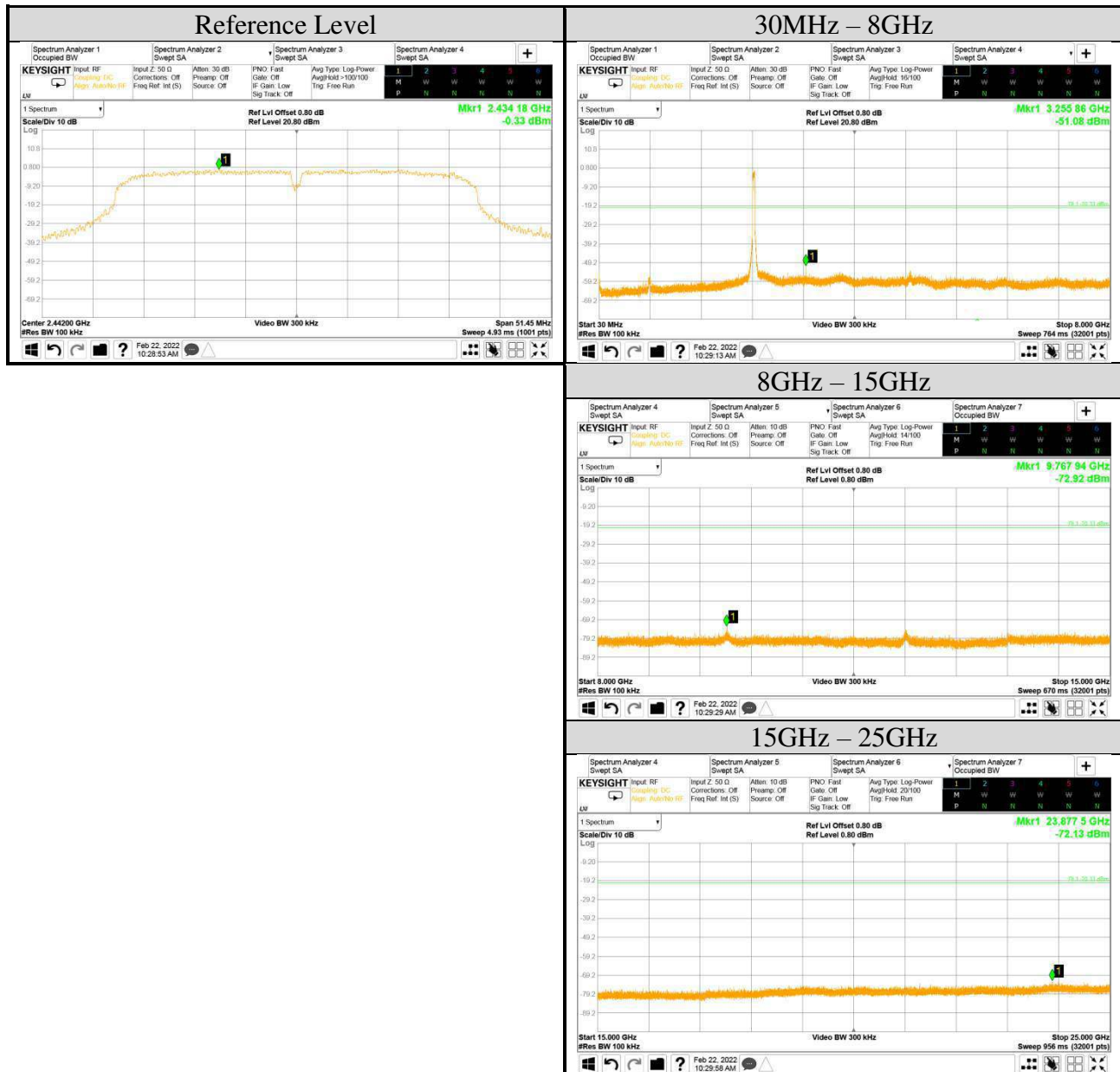
Test Date	2022/02/22	Temp./Hum.	17°C/72%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT40	Tested By	Martin Chen
Frequency	TX 2422MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/02/22	Temp./Hum.	17°C/72%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT40	Tested By	Martin Chen
Frequency	TX 2442MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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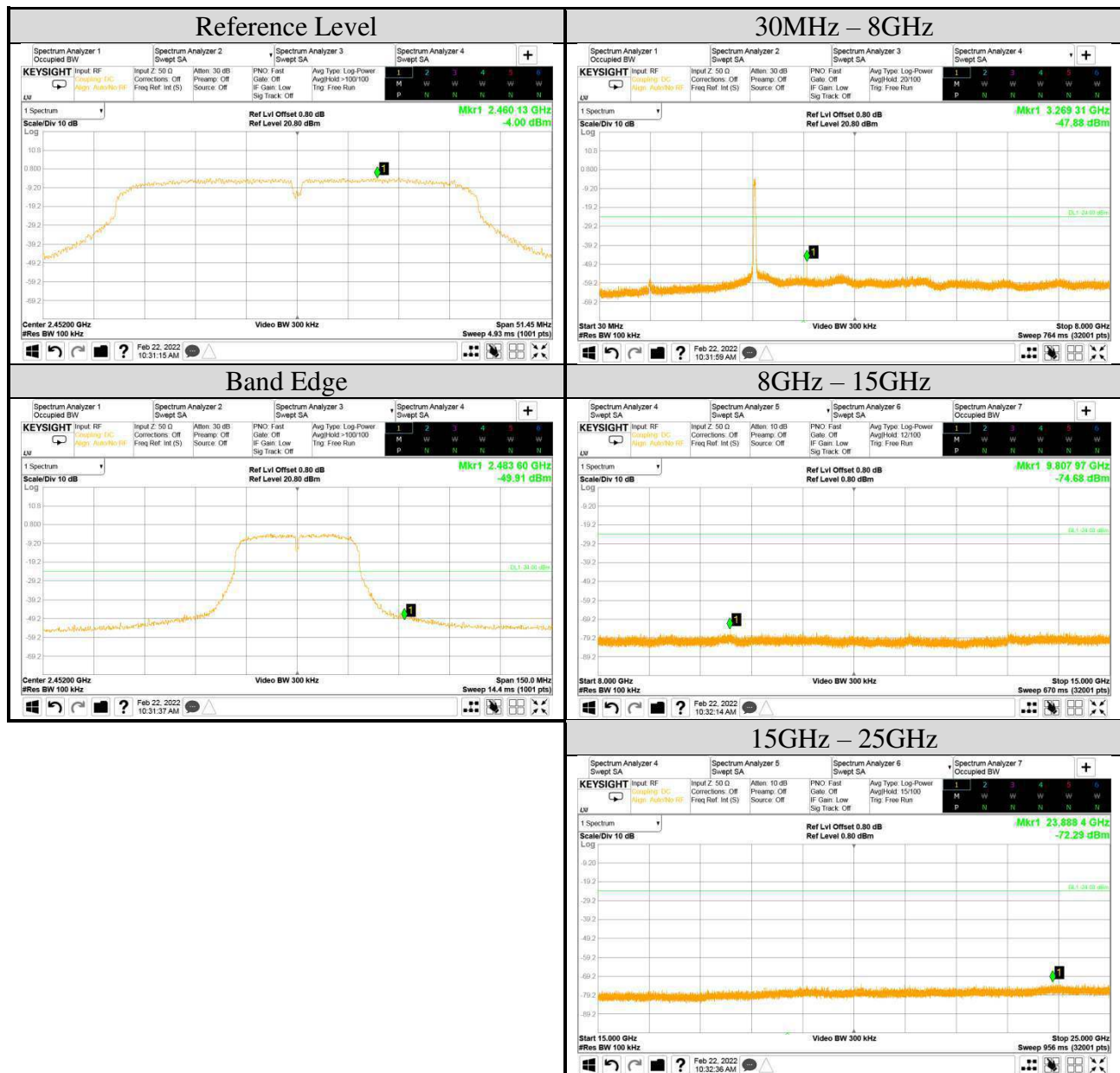
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Fax: +886 2 26099303

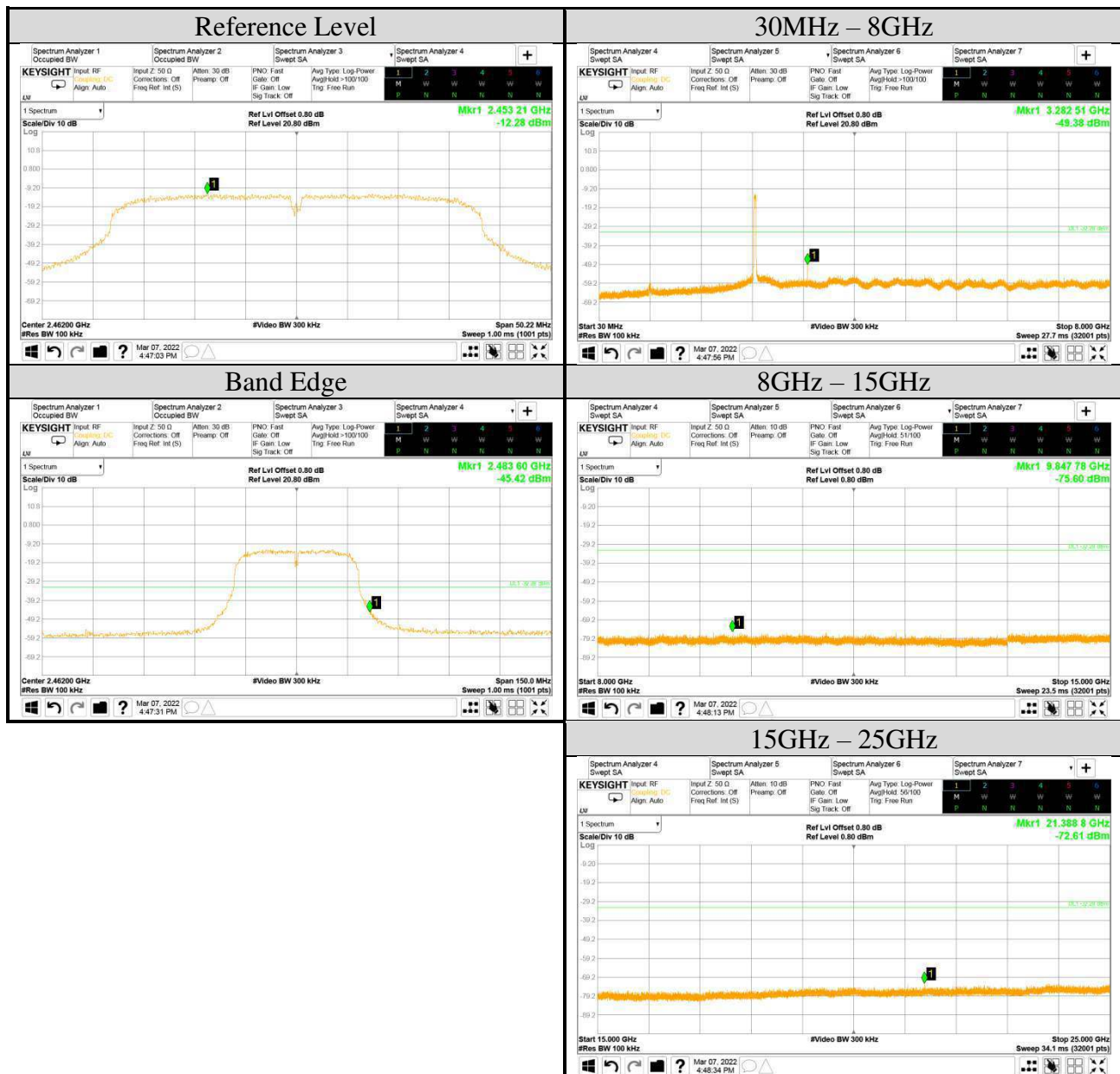
Test Date	2022/02/22	Temp./Hum.	17°C/72%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT40	Tested By	Martin Chen
Frequency	TX 2452MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/03/07	Temp./Hum.	20°C/65%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT40	Tested By	Martin Chen
Frequency	TX 2462MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



A.6 POWER SPECTRAL DENSITY

Test Date	2022/02/21 ~ 03/07	Temp./Hum.	14 ~ 17°C/65 ~ 74%
Cable Loss	0.8dB	Tested By	Martin Chen
Test Voltage	AC 120V/60Hz		
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			0

A.6.1 Power Spectral Density Result

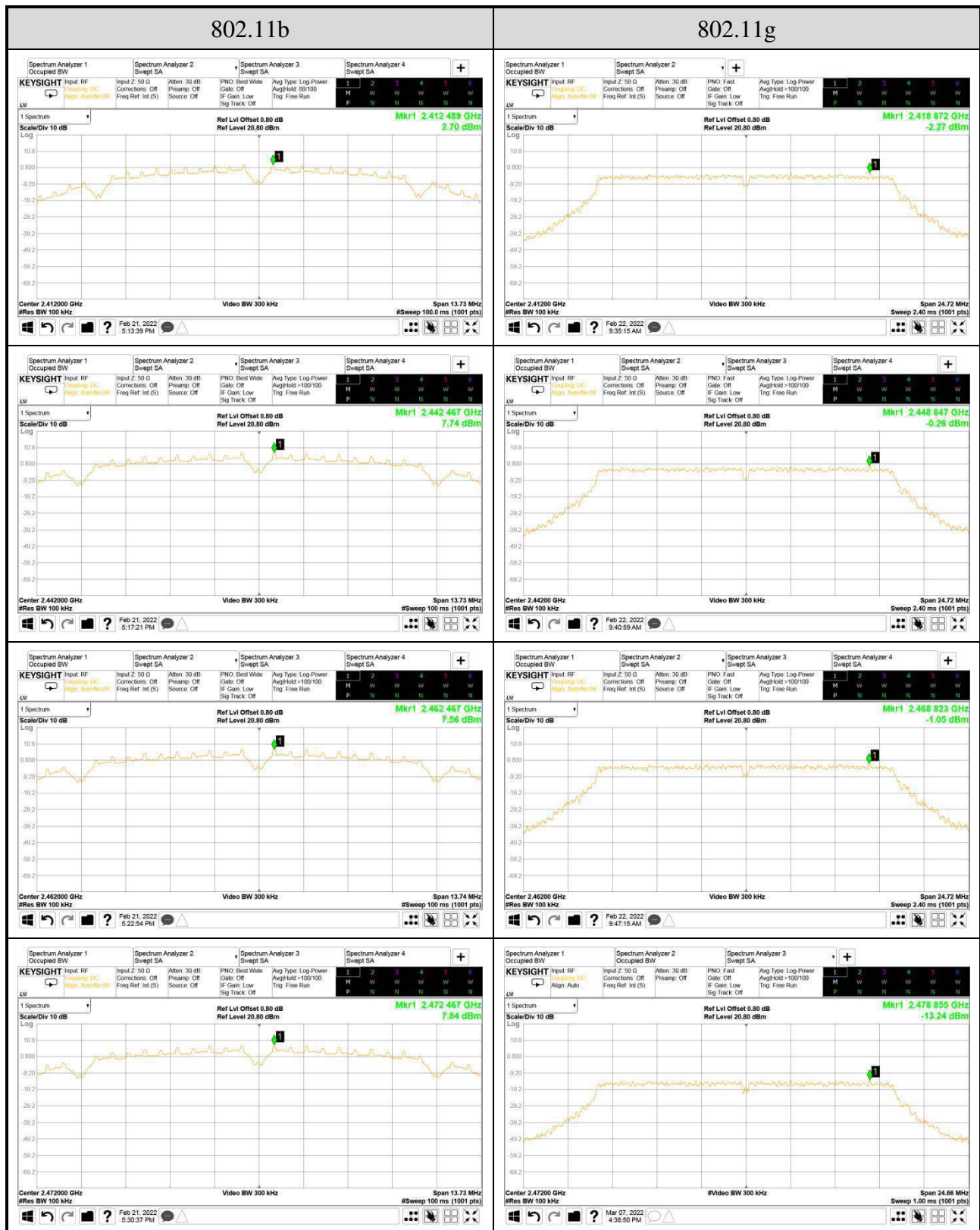
Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	2.70	<8 dBm/3kHz
	2442	7.74	
	2462	7.56	
	2472	7.84	
802.11g	2412	-2.27	
	2442	-0.26	
	2462	-1.05	
	2472	-13.24	
802.11n-HT20	2412	-0.67	
	2442	1.46	
	2462	-1.06	
	2472	-13.51	
802.11n-HT40	2422	-1.96	
	2442	-0.33	
	2452	-4.00	
	2462	-12.28	

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

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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

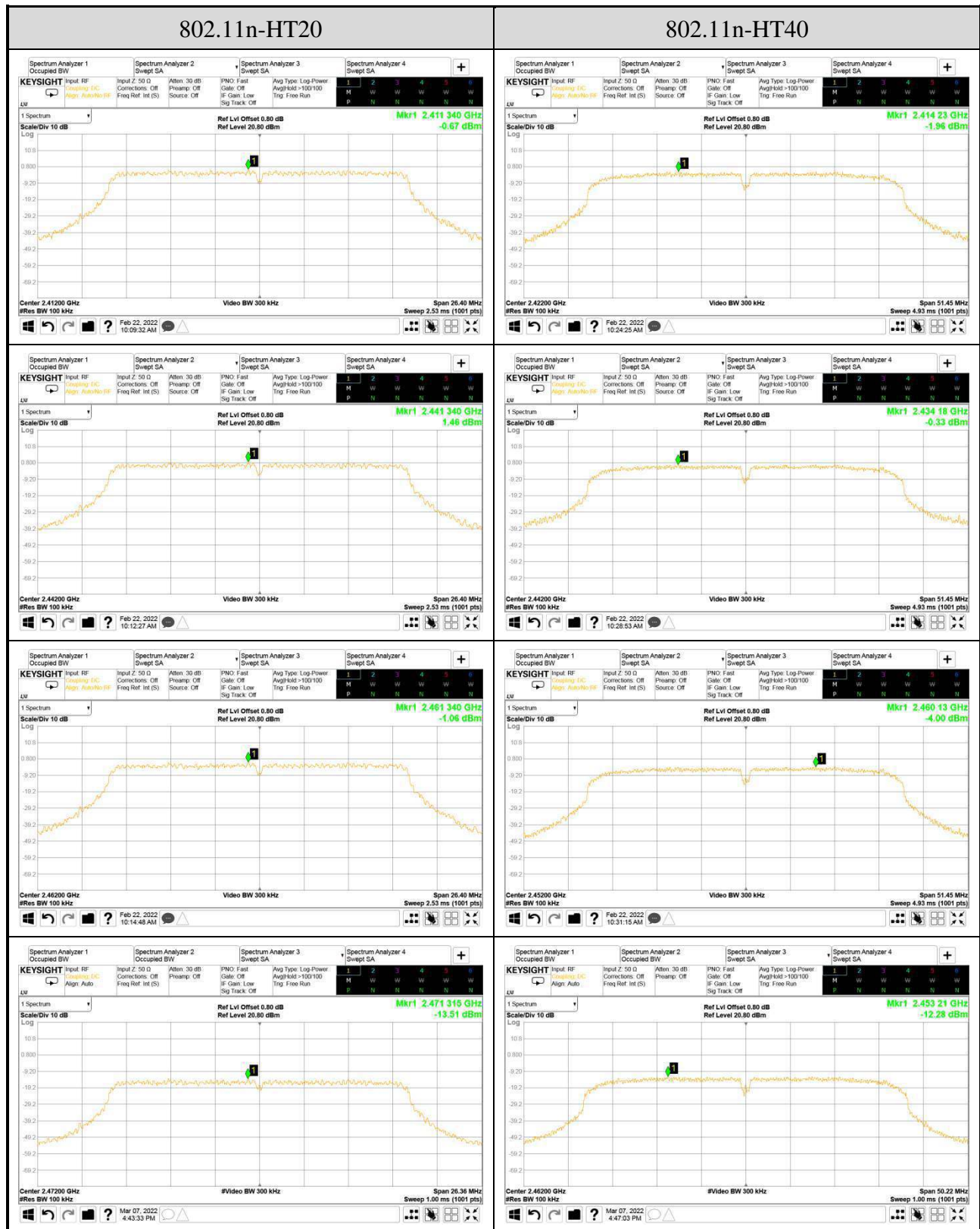
A.6.2 Measurement Plots



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

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303



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