

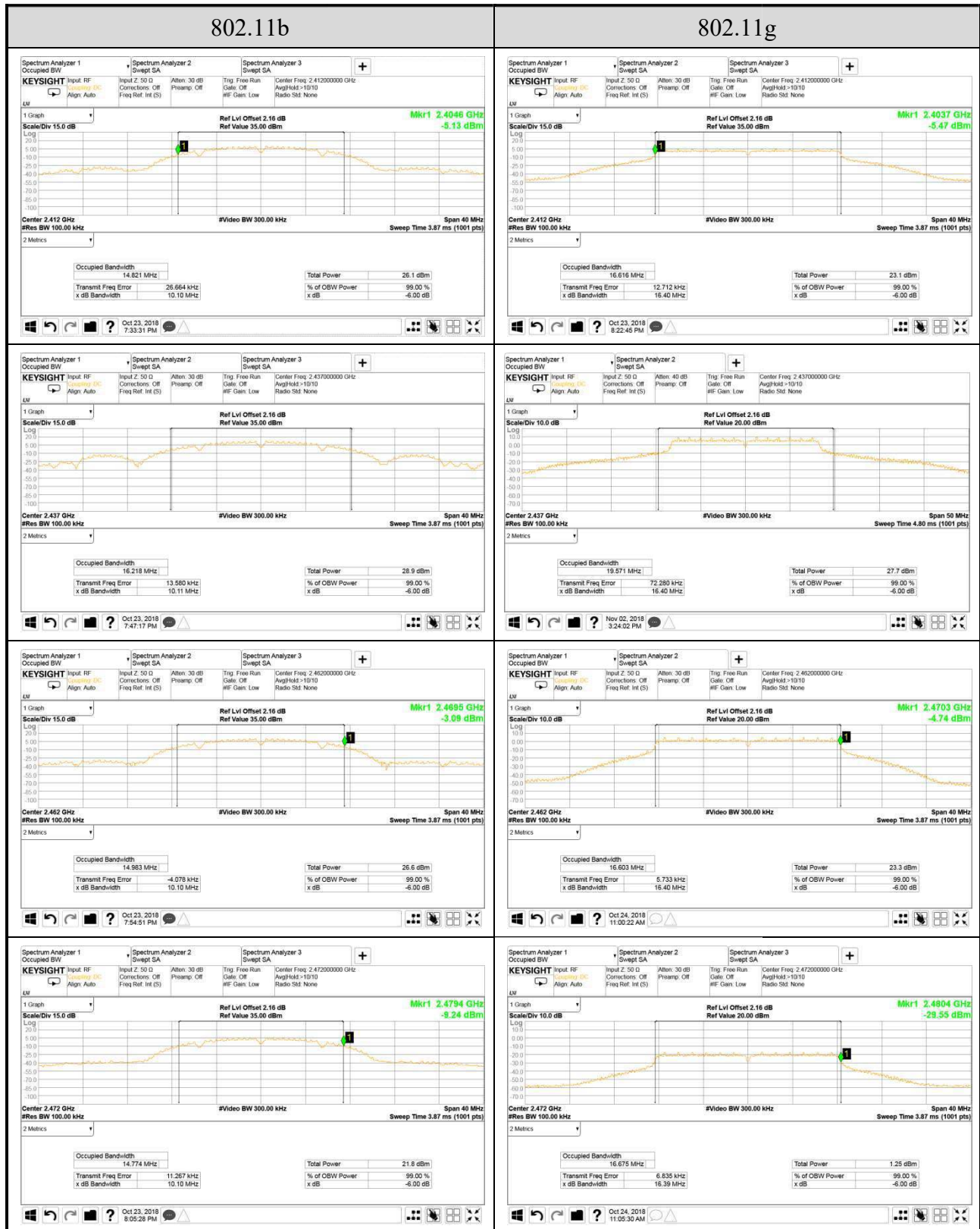
A.3 6dB BANDWIDTH

Test Date	2018/10/23~24	Temp./Hum.	23~24°C/52~55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)

A.3.1 6dB Bandwidth Result

Mode	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz) (Reference only)	Limit
802.11b	2412	10.10	14.821	>500kHz
	2437	10.11	16.218	
	2462	10.10	14.983	
	2472	10.10	14.774	
802.11g	2412	16.40	16.616	
	2437	16.40	19.571	
	2462	16.40	16.603	
	2472	16.39	16.675	
802.11n-HT20	2412	17.65	17.778	
	2437	17.66	17.816	
	2462	17.66	17.787	
	2472	17.65	17.799	
802.11n-HT40	2422	36.36	36.188	
	2437	36.36	36.181	
	2452	36.41	36.219	
	2462	36.42	36.156	
BLE	2402	0.6615	1.0680	
	2440	0.6667	1.0605	
	2480	0.6676	1.0584	

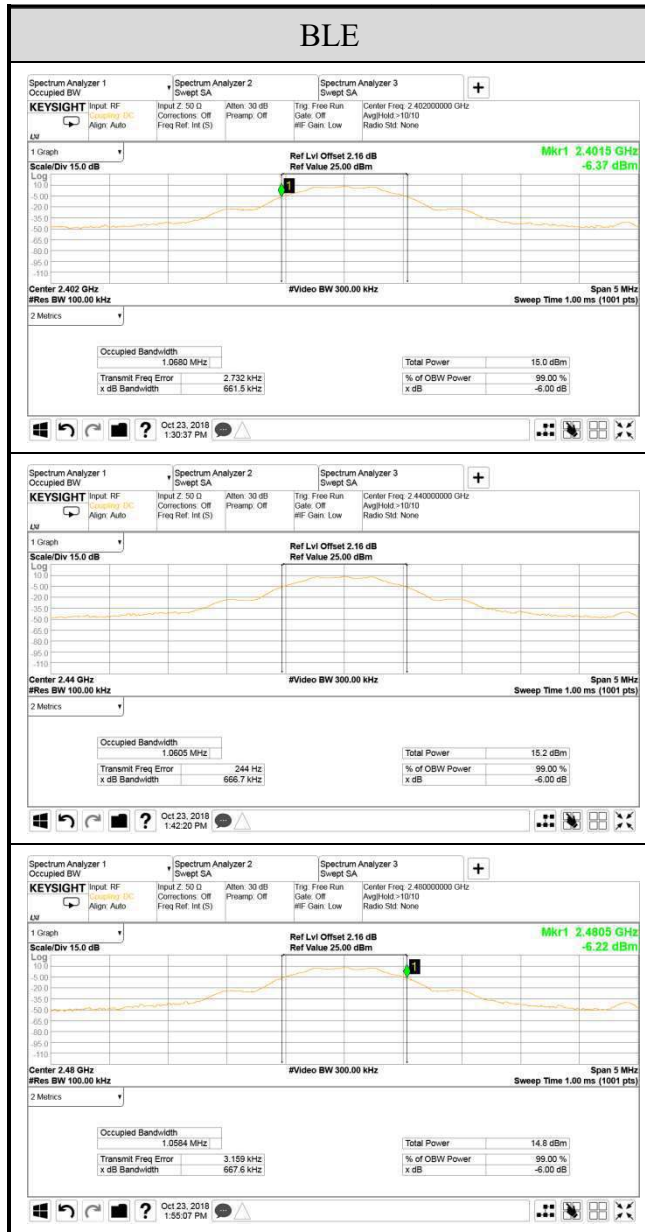
A.3.2 Measurement Plots





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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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



A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2018/10/23~24	Temp./Hum.	23~24°C/52~55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)

A.4.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11b	2412	19.65	20.23	20.23	0.105	2.91	23.14	0.206	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2437	22.57	21.77	22.57	0.181		25.48	0.353	
	2462	19.85	20.48	20.48	0.112		23.39	0.218	
	2467	15.20	16.35	16.35	0.043		19.26	0.084	
	2472	14.24	14.89	14.89	0.031		17.80	0.060	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11g	2412	21.03	21.00	21.03	0.127	2.91	23.94	0.248	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2437	23.52	22.70	23.52	0.225		26.43	0.440	
	2462	21.22	21.25	21.25	0.133		24.16	0.261	
	2467	17.29	18.33	18.33	0.068		21.24	0.133	
	2472	-0.51	-0.94	-0.51	0.001		2.40	0.002	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	20.11	20.27	23.20	0.209	2.91	26.11	0.408	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2437	22.03	22.04	25.05	0.320		27.96	0.625	
	2462	20.04	19.78	22.92	0.196		25.83	0.383	
	2467	17.89	17.44	20.68	0.117		23.59	0.229	
	2472	-0.53	-1.29	2.12	0.002		5.03	0.003	

Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	19.17	18.67	21.94	0.156	2.91	24.85	0.305	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2437	20.02	20.06	23.05	0.202		25.96	0.394	
	2452	19.03	18.72	21.89	0.155		24.80	0.302	
	2457	16.71	15.82	19.30	0.085		22.21	0.166	
	2462	10.11	10.04	13.09	0.020		16.00	0.040	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
BLE	2402	8.32	--	8.32	0.007	2.91	11.23	0.013	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2440	8.39	--	8.39	0.007		11.30	0.013	
	2480	8.07	--	8.07	0.006		10.98	0.013	

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)	Total Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11b	2412	17.96	18.52	0	18.52	0.071	2.91	21.43	0.139	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2437	21.06	20.61		21.06	0.128		23.97	0.249	
	2462	18.19	18.74		18.74	0.075		21.65	0.146	
	2467	13.34	14.31		14.31	0.027		17.22	0.053	
	2472	12.16	12.80		12.80	0.019		15.71	0.037	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Total Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11g	2412	16.10	16.19	0	16.19	0.042	2.91	19.10	0.081	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2437	20.49	19.57		20.49	0.112		23.40	0.219	
	2462	16.24	16.47		16.47	0.044		19.38	0.087	
	2467	12.11	13.25		13.25	0.021		16.16	0.041	
	2472	-5.57	-6.47		-5.57	0.000		-2.66	0.001	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Total Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	14.95	15.18	0.19	18.27	0.067	2.91	21.18	0.131	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2437	17.24	17.62		20.64	0.116		23.55	0.226	
	2462	14.77	14.56		17.87	0.061		20.78	0.120	
	2467	12.49	12.15		15.53	0.036		18.44	0.070	
	2472	-6.08	-6.95		-3.29	0.000		-0.38	0.001	

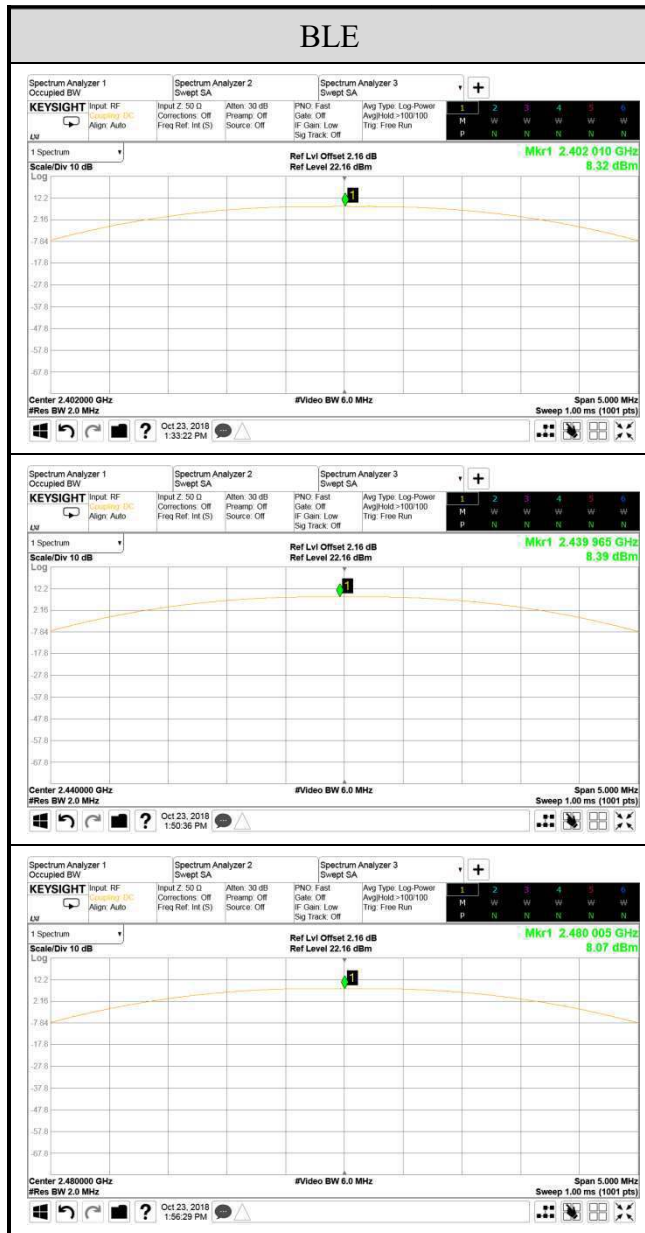
Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Total Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	13.18	12.80	0.38	16.38	0.043	2.91	19.29	0.085	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2437	13.99	14.05		17.41	0.055		20.32	0.108	
	2452	13.13	12.78		16.35	0.043		19.26	0.084	
	2457	8.95	8.42		12.08	0.016		14.99	0.032	
	2462	1.09	0.99		4.43	0.003		7.34	0.005	

Note: The results have been included cable loss.

Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

A.4.3 Measurement Plots

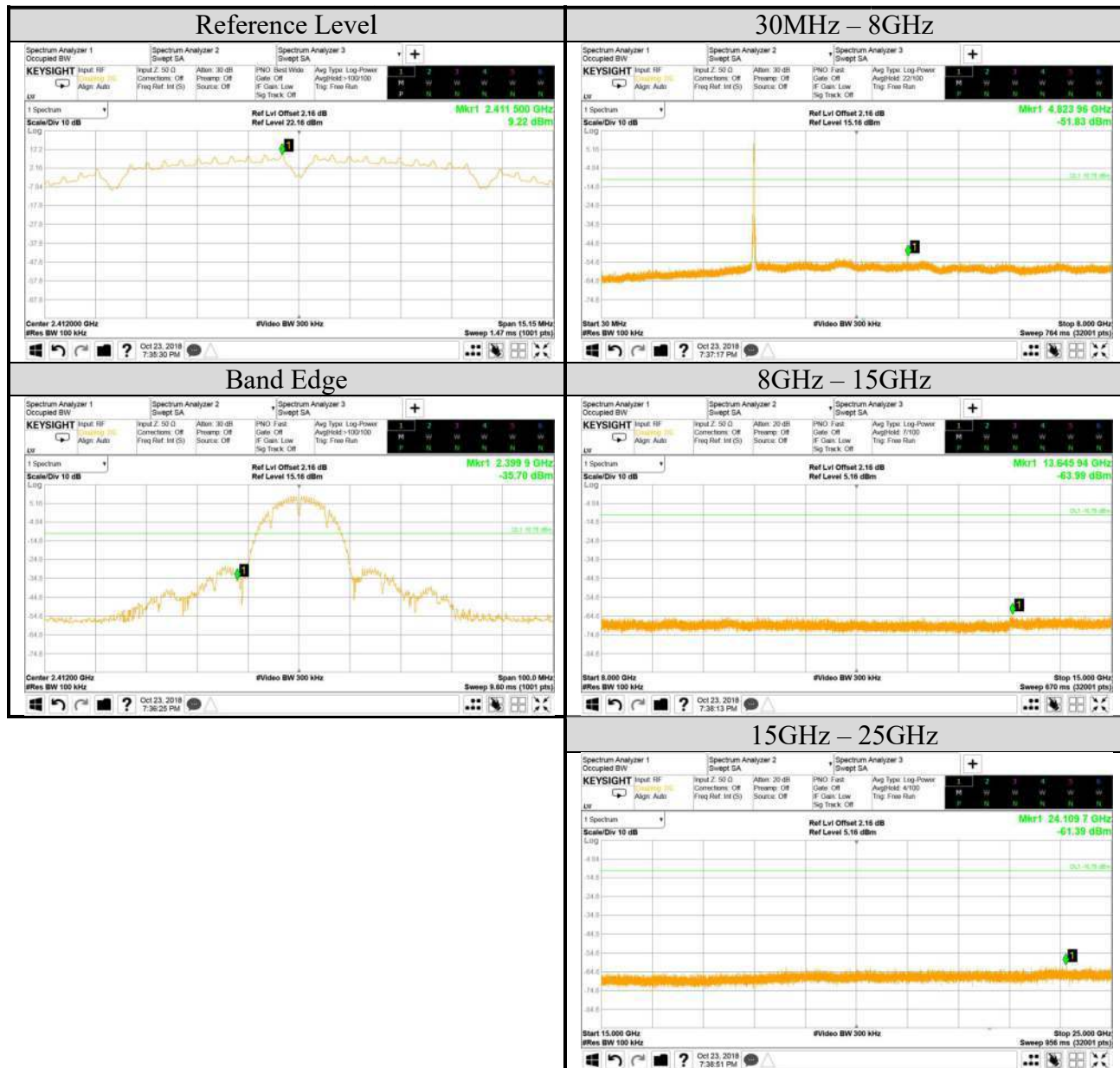


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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

A.5 EMISSION LIMITATIONS

Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11b	Frequency	TX 2412MHz
Simultaneous Factor	10 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

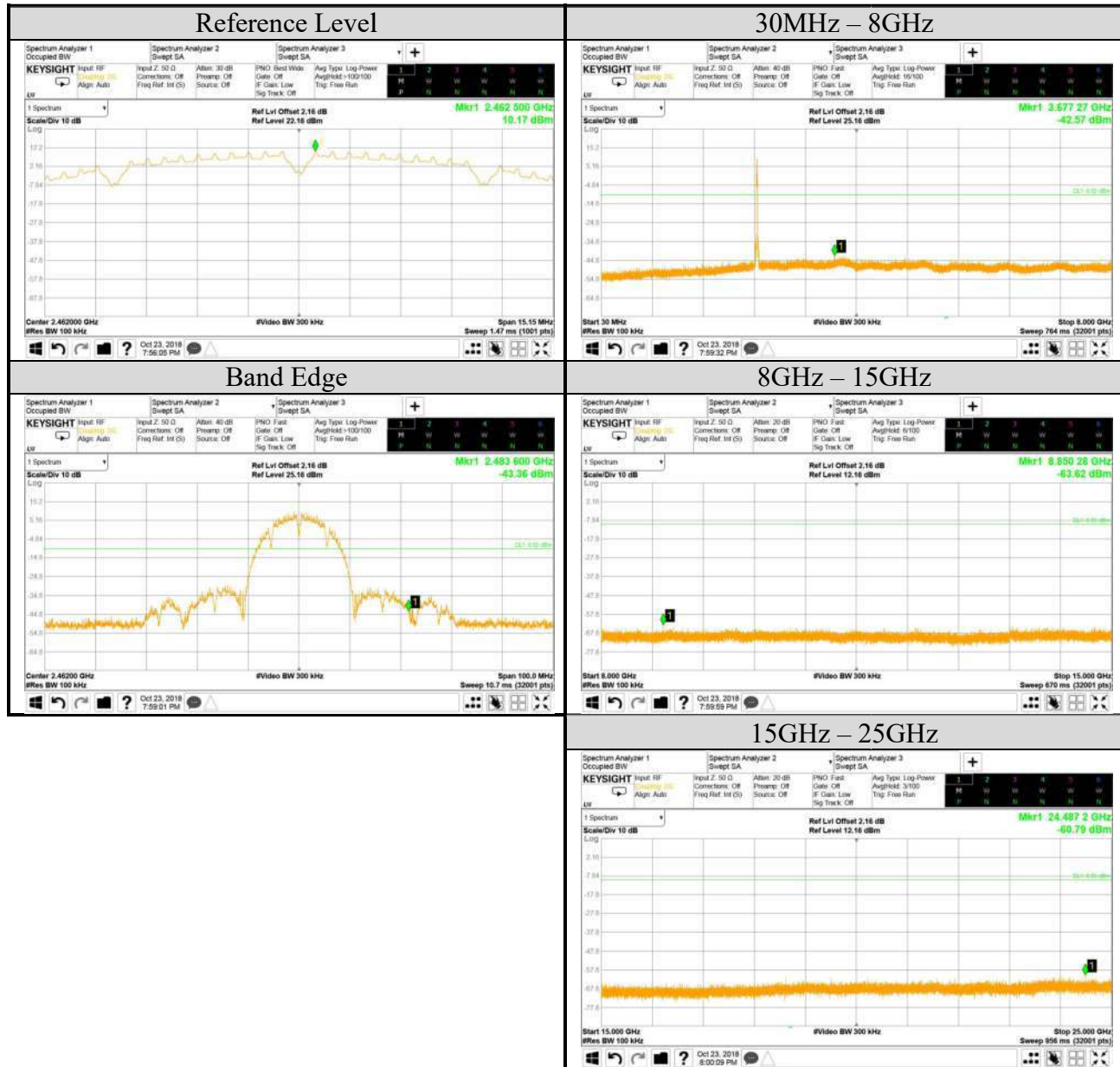
Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11b	Frequency	TX 2437MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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New Taipei City 244, Taiwan

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

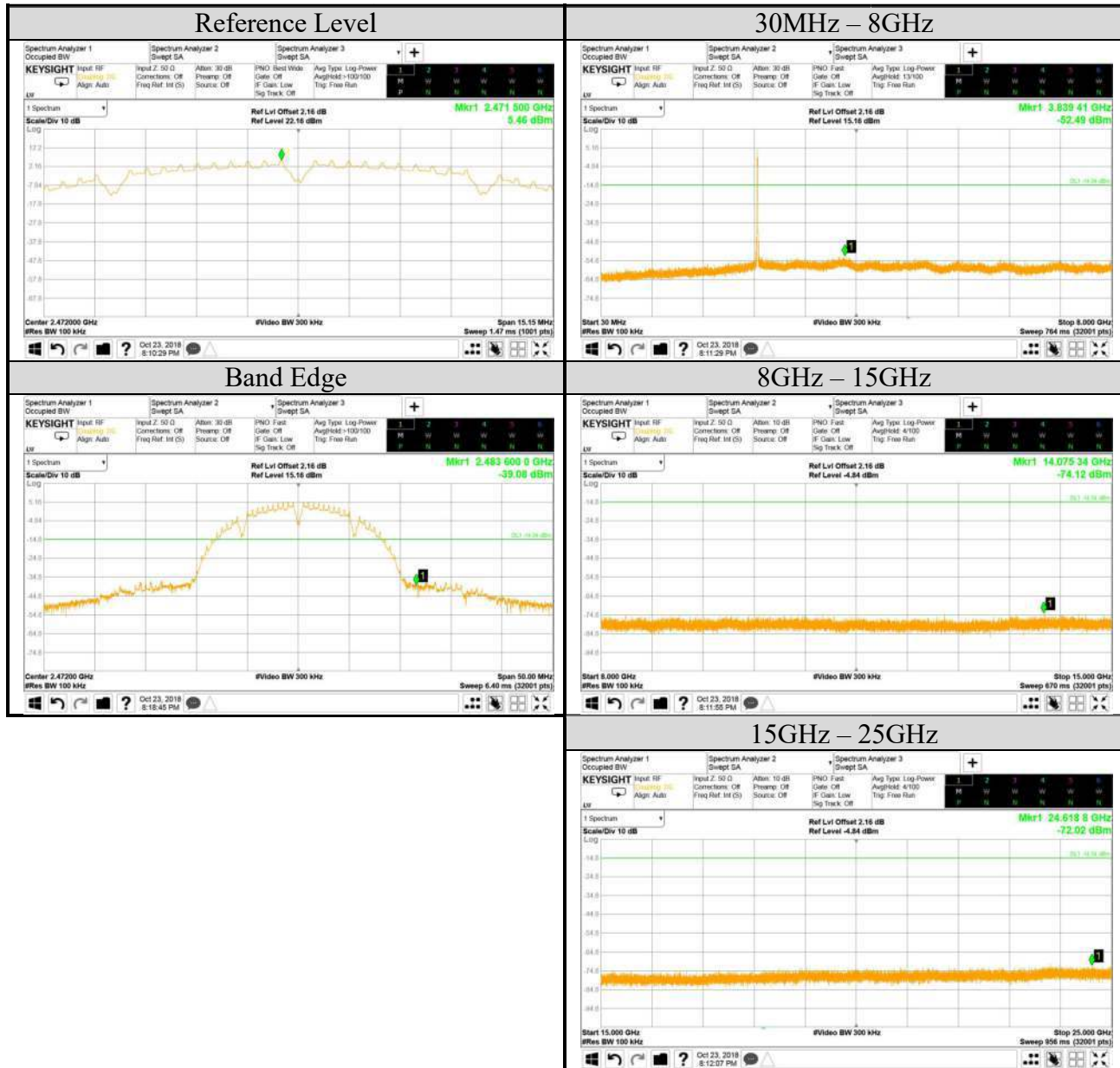
Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11b	Frequency	TX 2462MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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New Taipei City 244, Taiwan

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

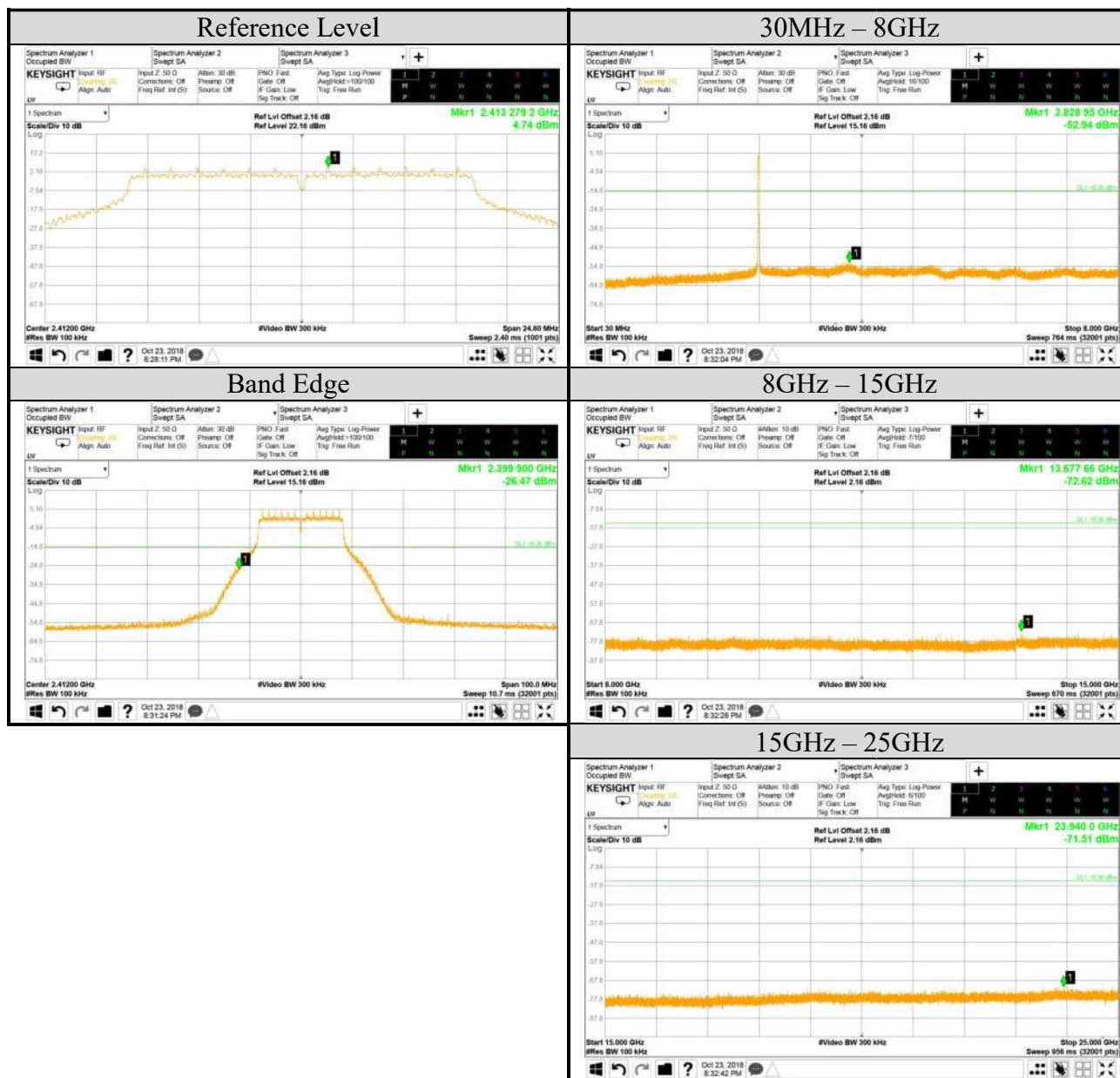
Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11b	Frequency	TX 2472MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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New Taipei City 244, Taiwan

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

Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11g	Frequency	TX 2412MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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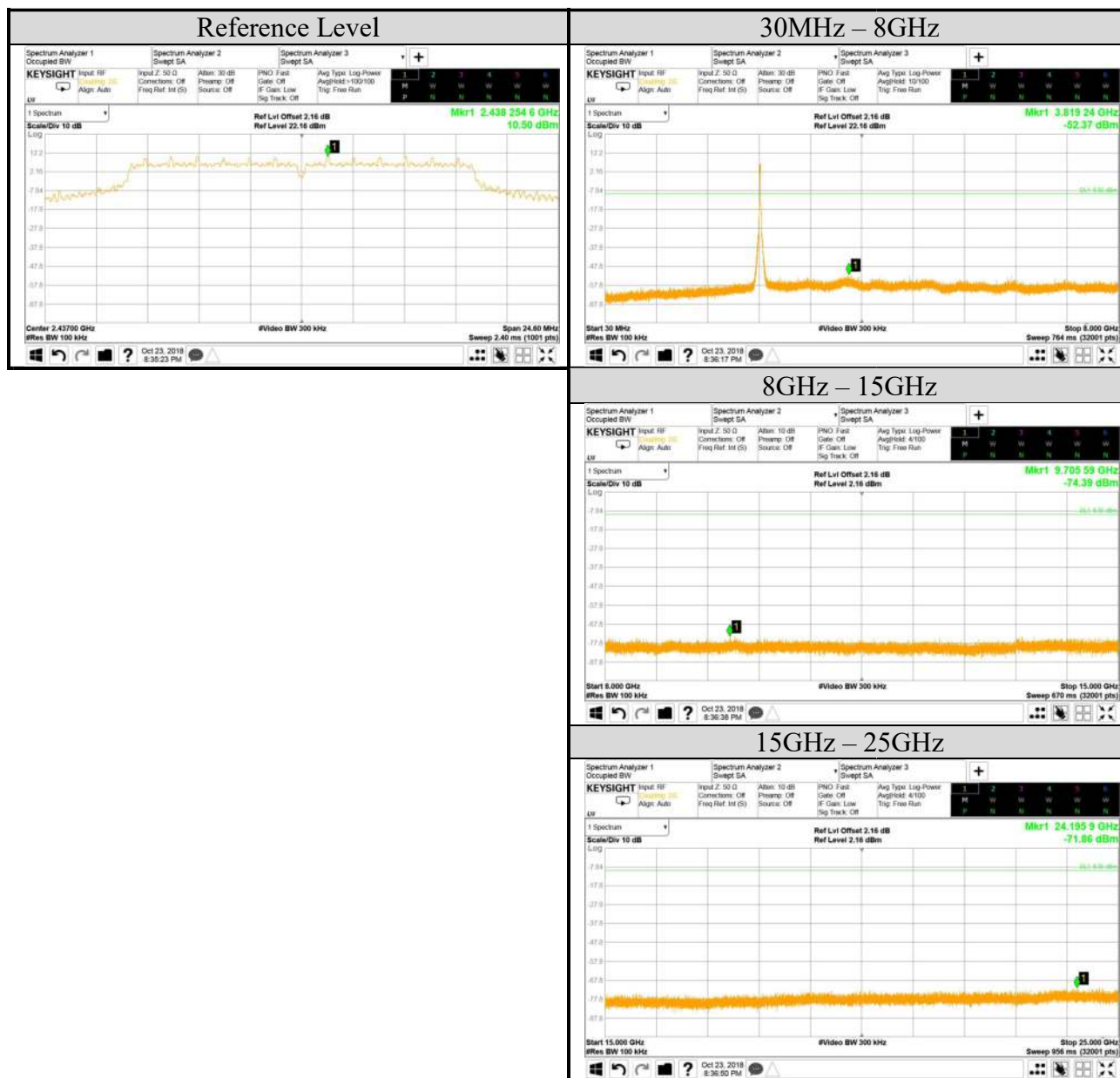
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New Taipei City 244, Taiwan

Tel: +886 2 26099301

Fax: +886 2 26099303

Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11g	Frequency	TX 2437MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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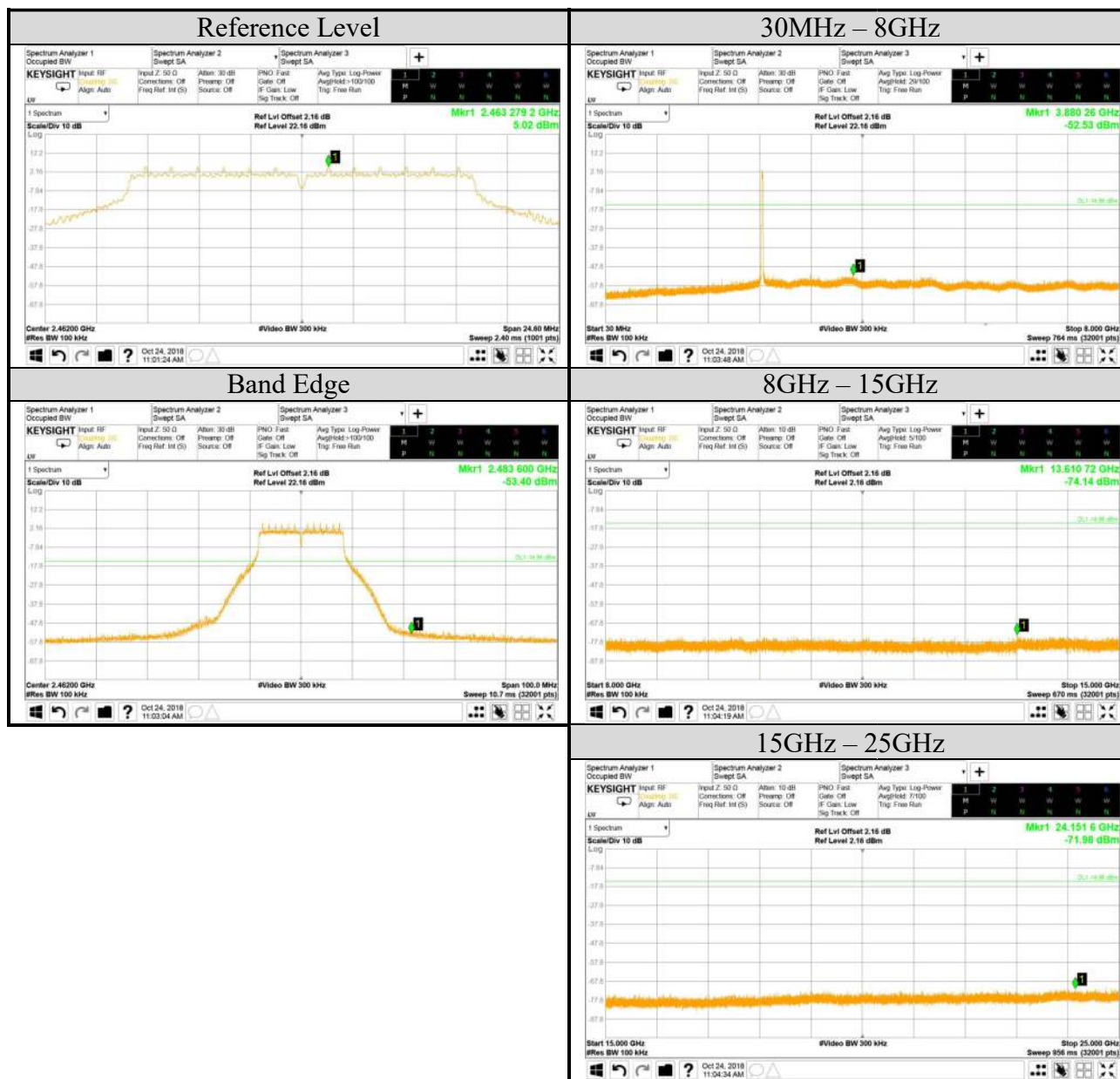
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New Taipei City 244, Taiwan

Tel: +886 2 26099301

Fax: +886 2 26099303

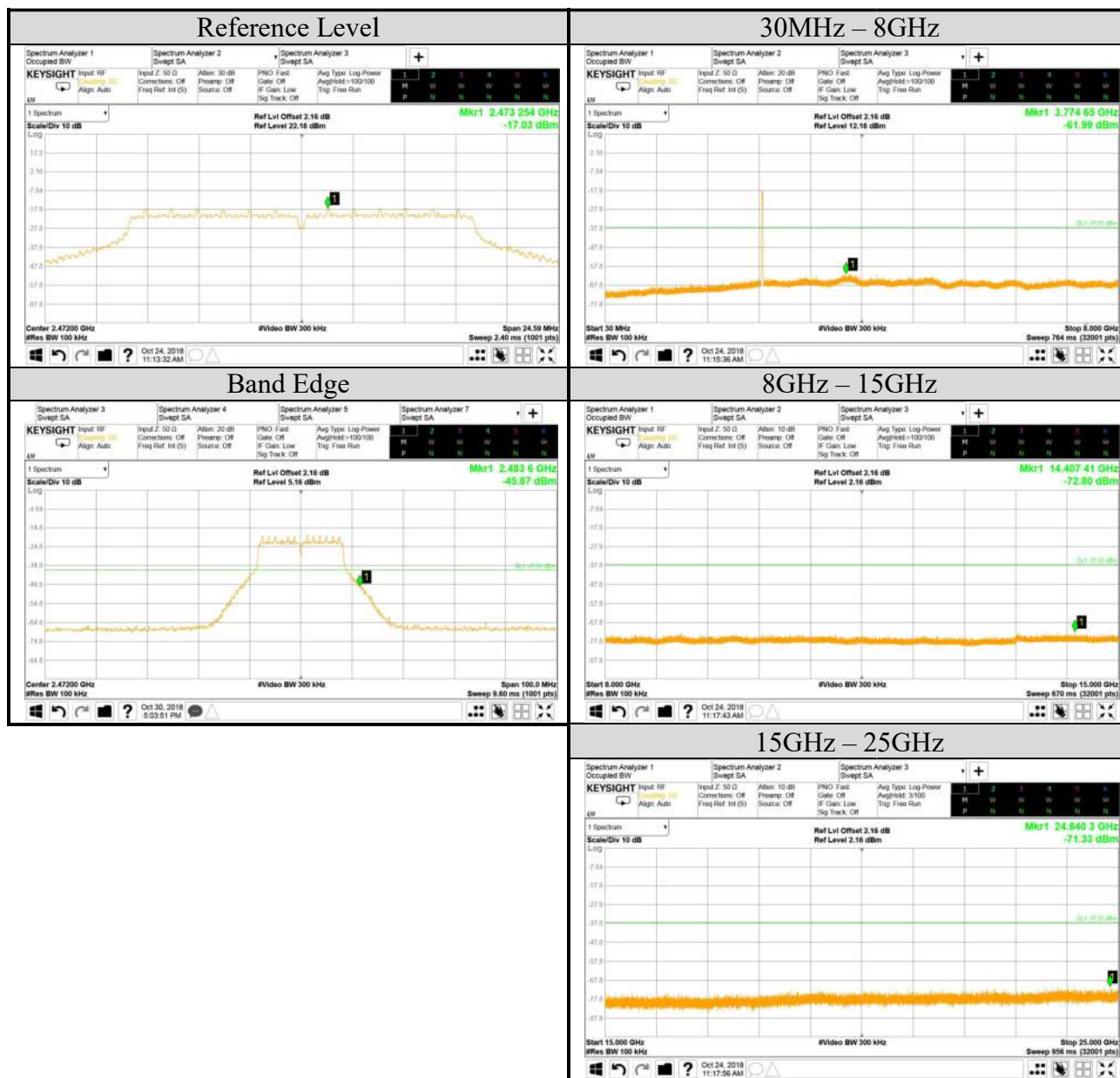
Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11g	Frequency	TX 2462MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

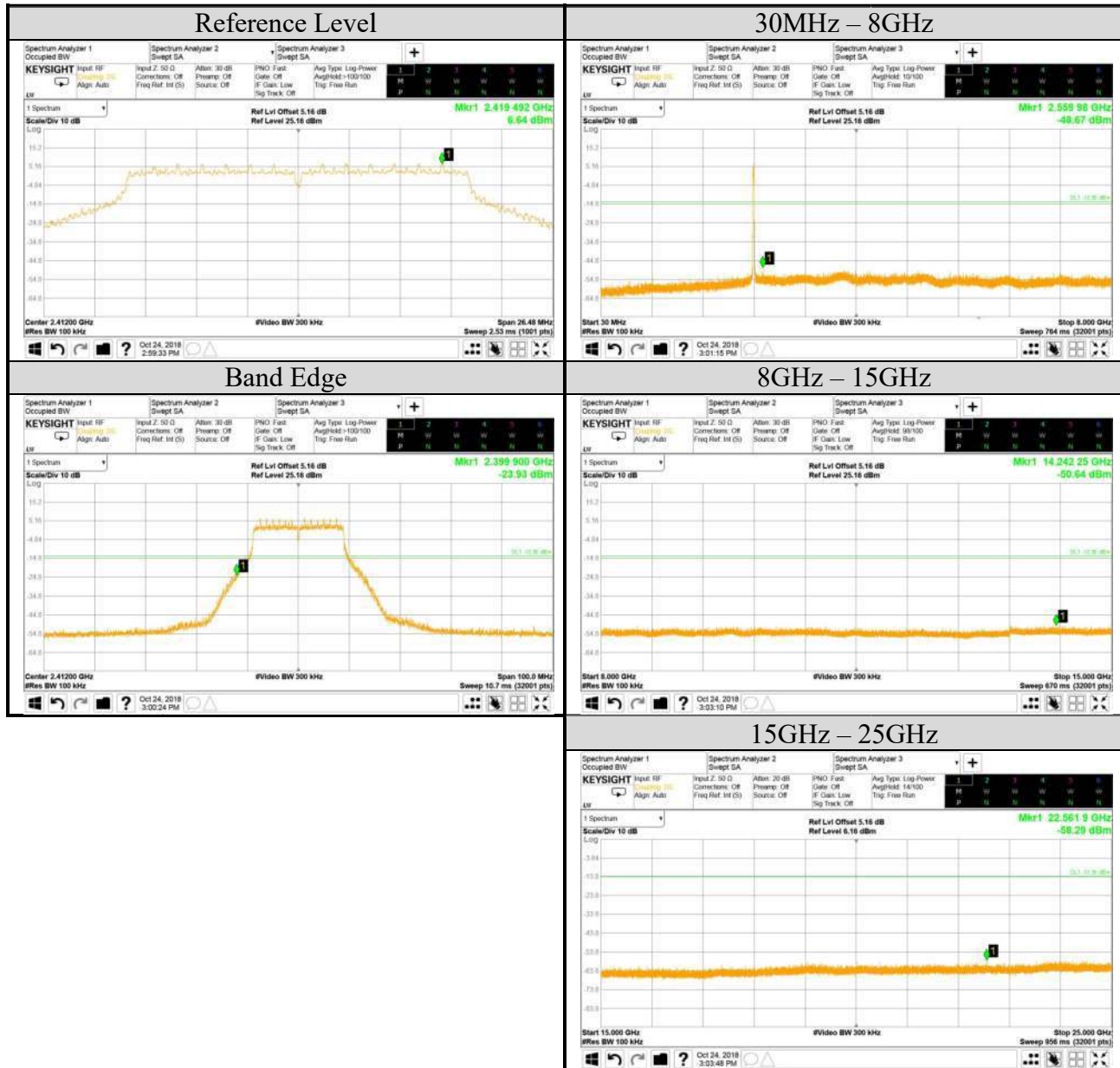
Test Date	2018/10/23~30	Temp./Hum.	22~23°C/52~55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11g	Frequency	TX 2472MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

Test Date	2018/10/24	Temp./Hum.	24°C/52%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT20	Frequency	TX 2412MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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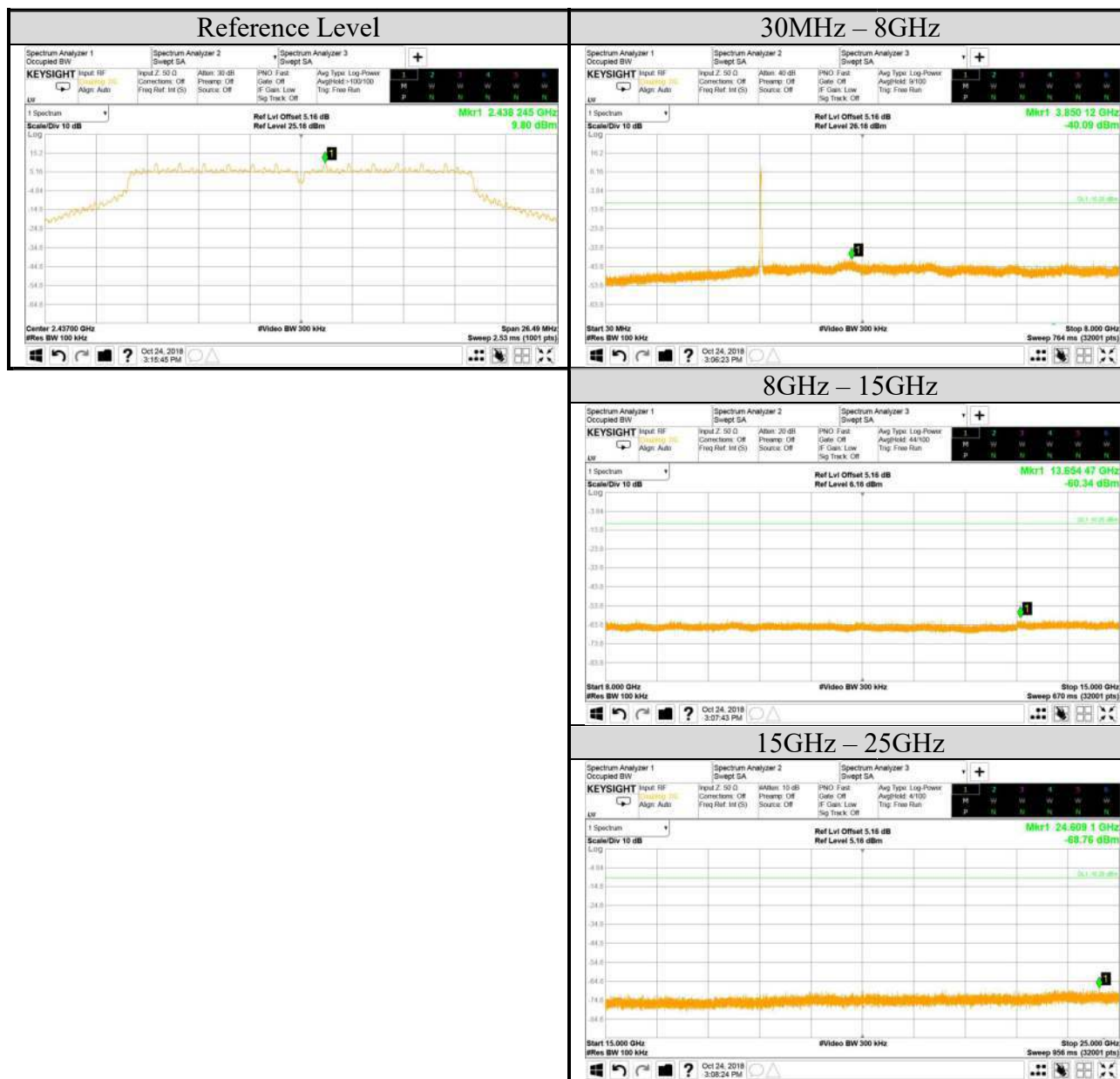
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New Taipei City 244, Taiwan

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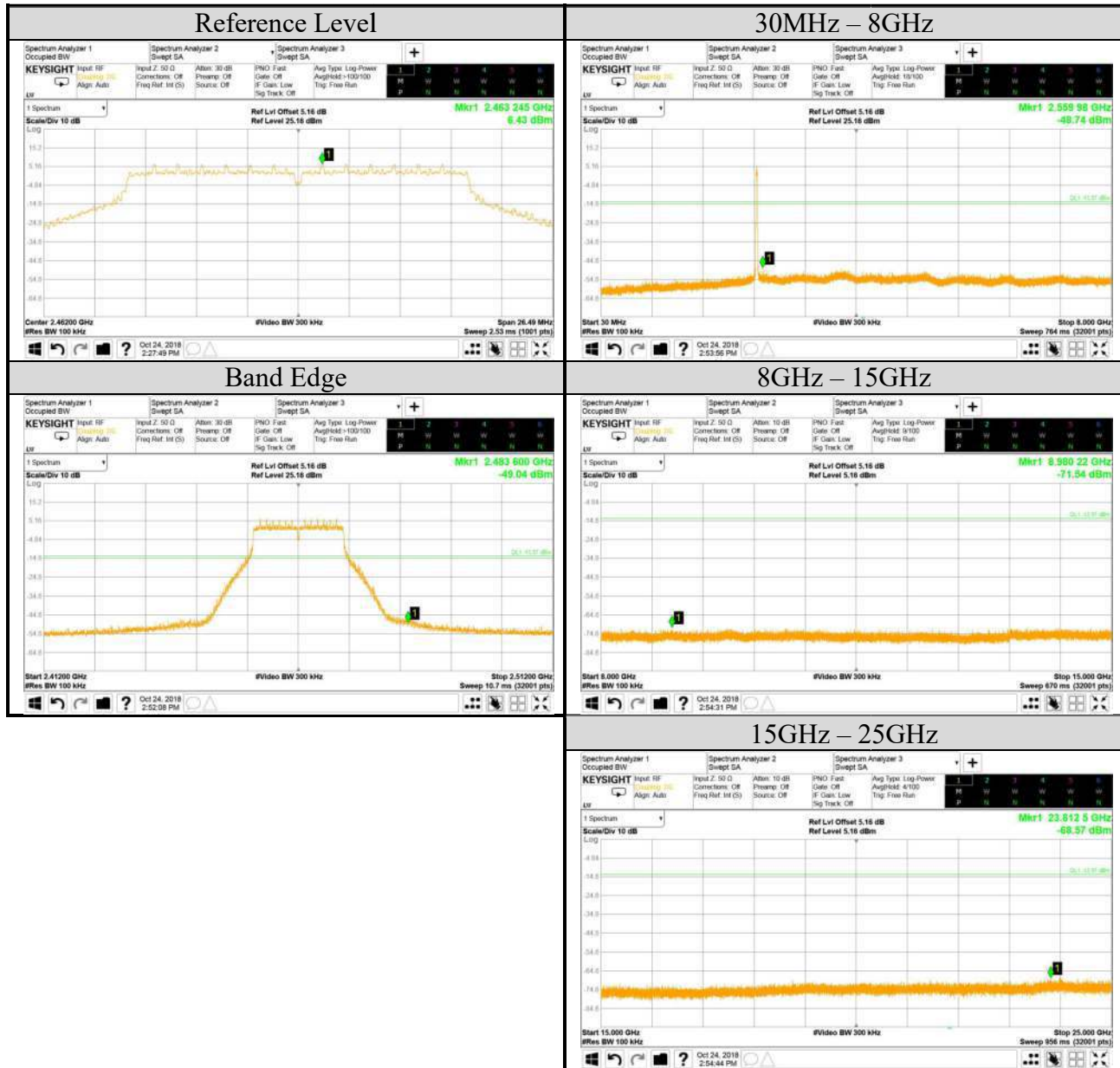
Test Date	2018/10/24	Temp./Hum.	24°C/52%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT20	Frequency	TX 2437MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City 244, Taiwan

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

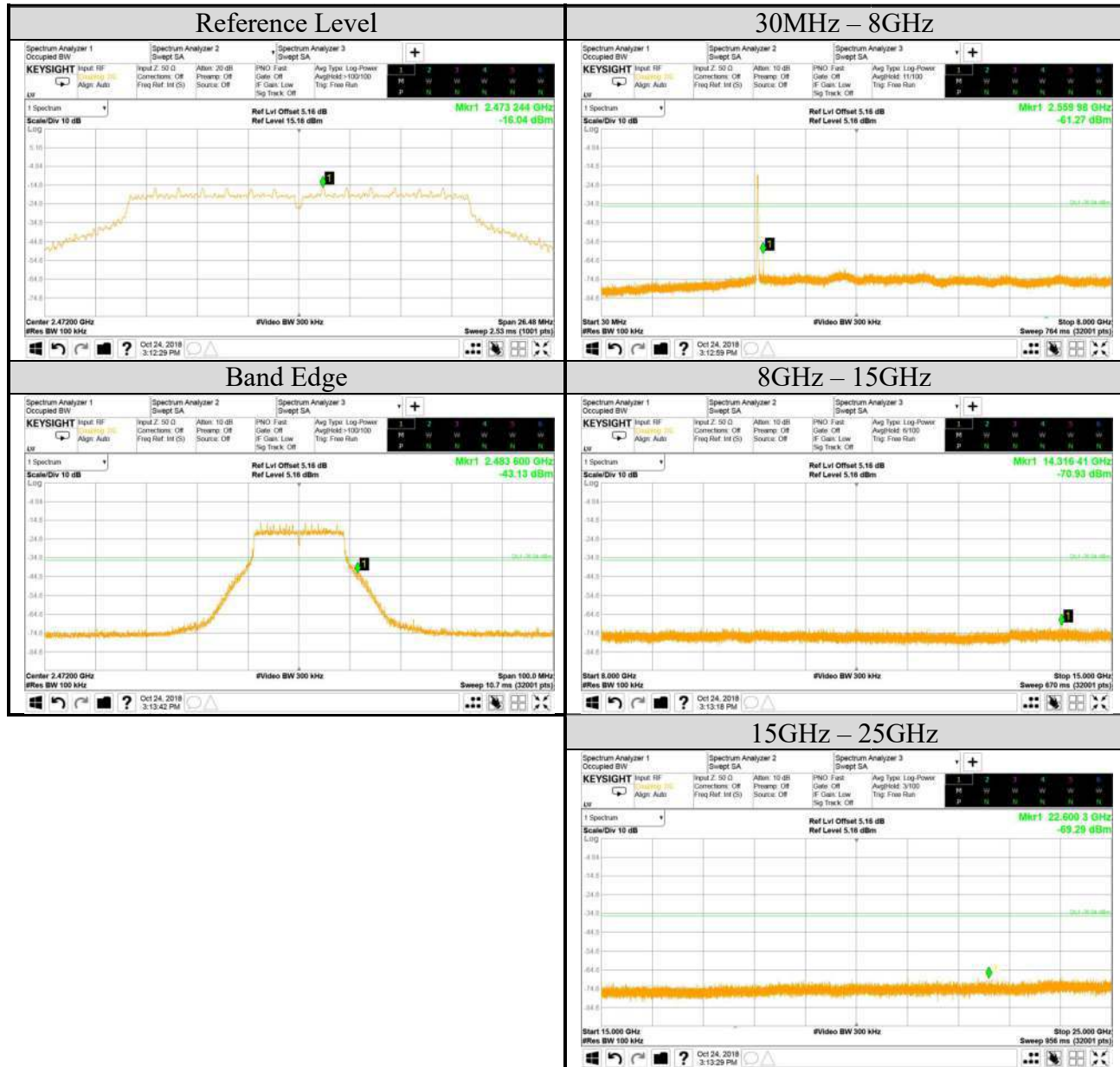
Test Date	2018/10/24	Temp./Hum.	24°C/52%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT20	Frequency	TX 2462MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City 244, Taiwan

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

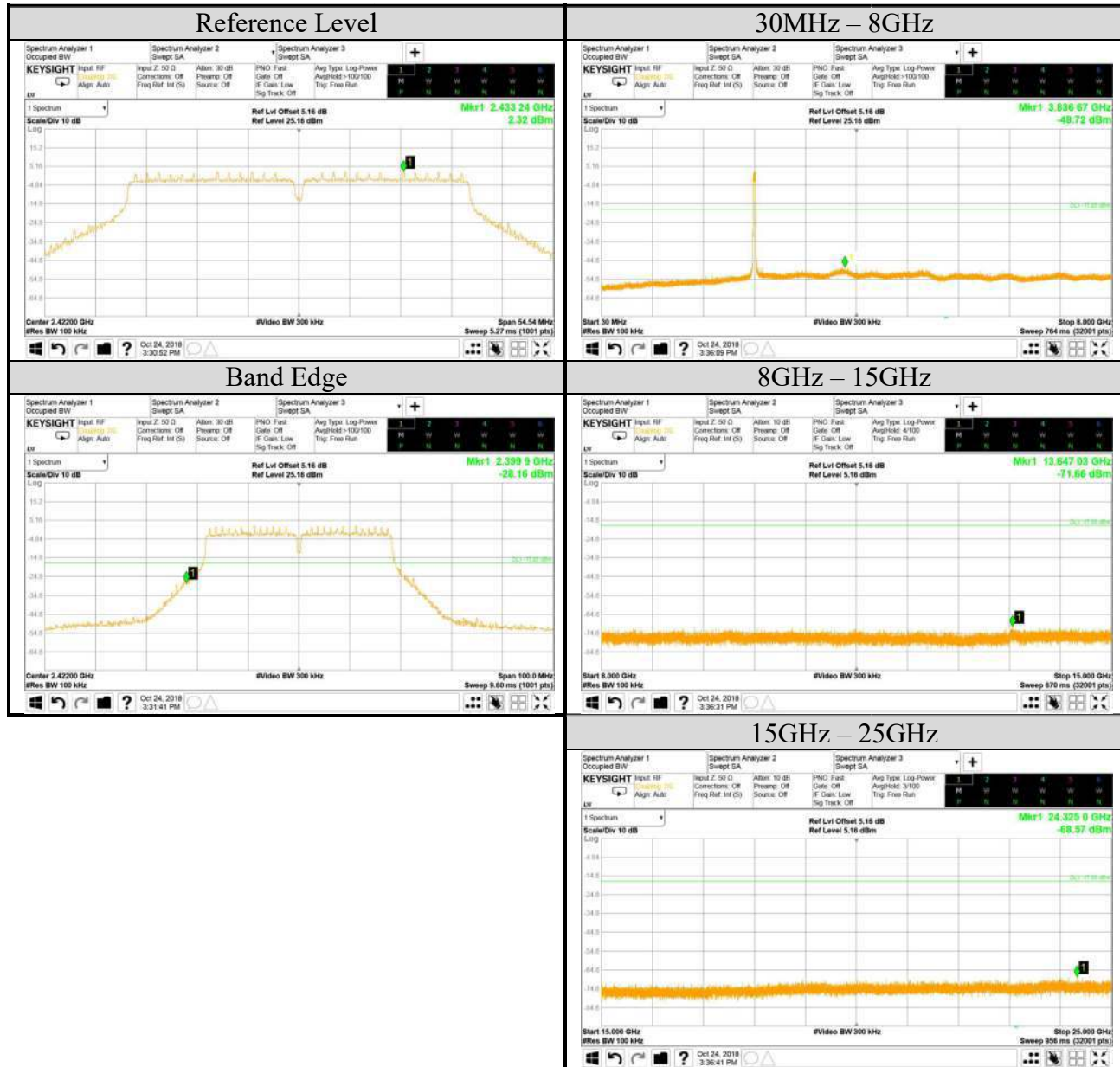
Test Date	2018/10/24	Temp./Hum.	24°C/52%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT20	Frequency	TX 2472MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

Test Date	2018/10/24	Temp./Hum.	24°C/52%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT40	Frequency	TX 2422MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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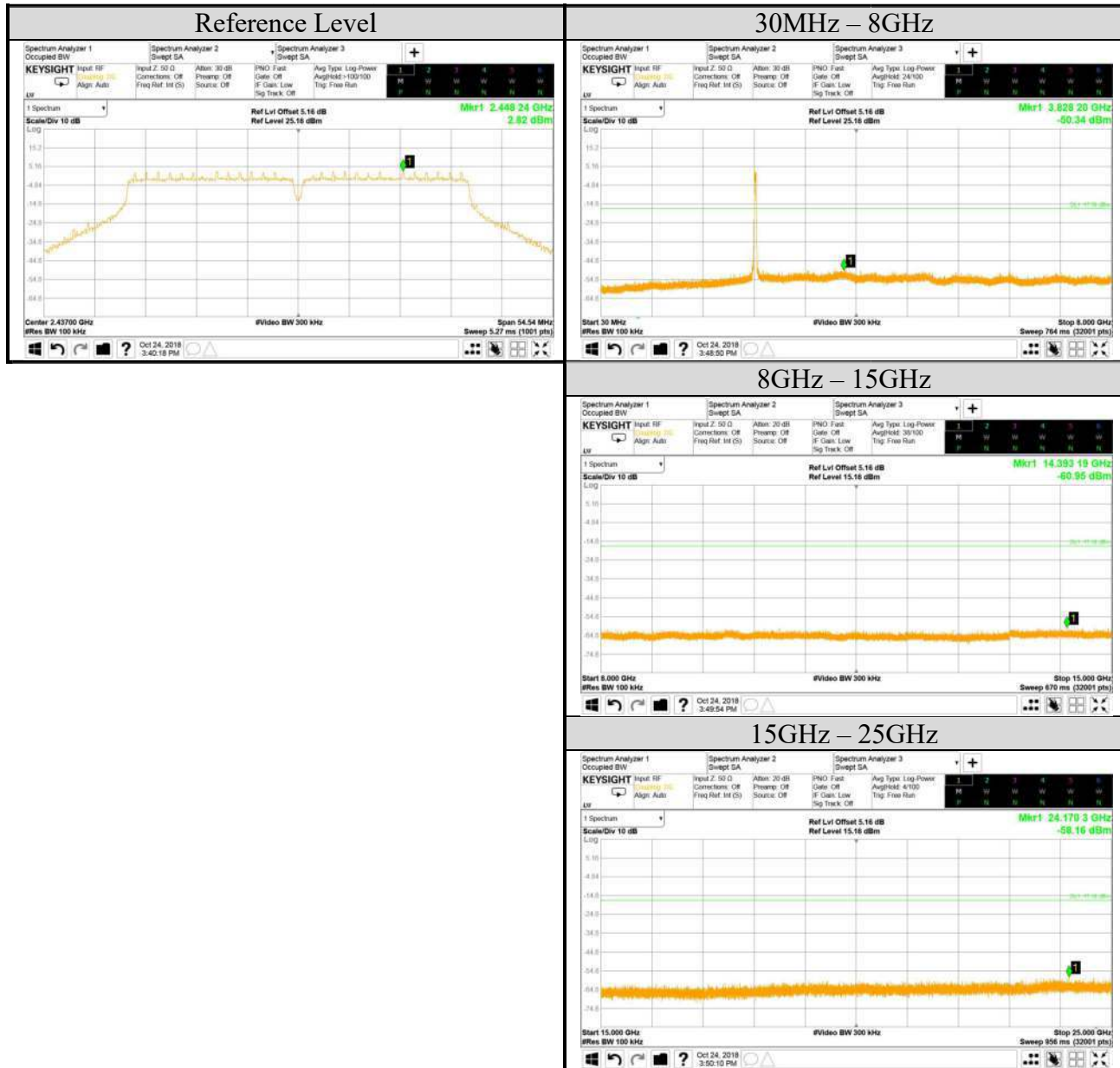
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New Taipei City 244, Taiwan

Tel: +886 2 26099301

Fax: +886 2 26099303

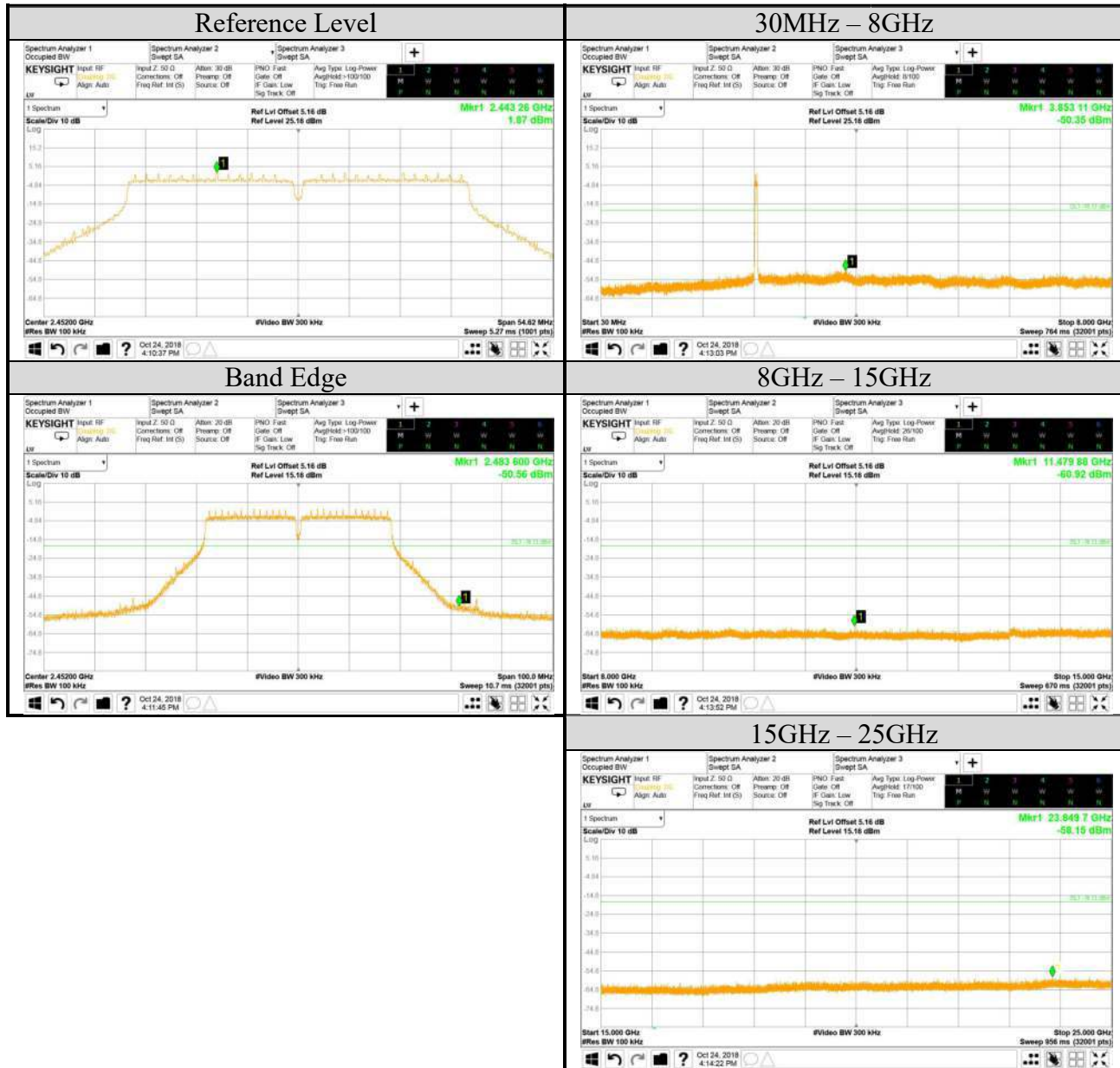
Test Date	2018/10/24	Temp./Hum.	24°C/52%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT40	Frequency	TX 2437MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City 244, Taiwan

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

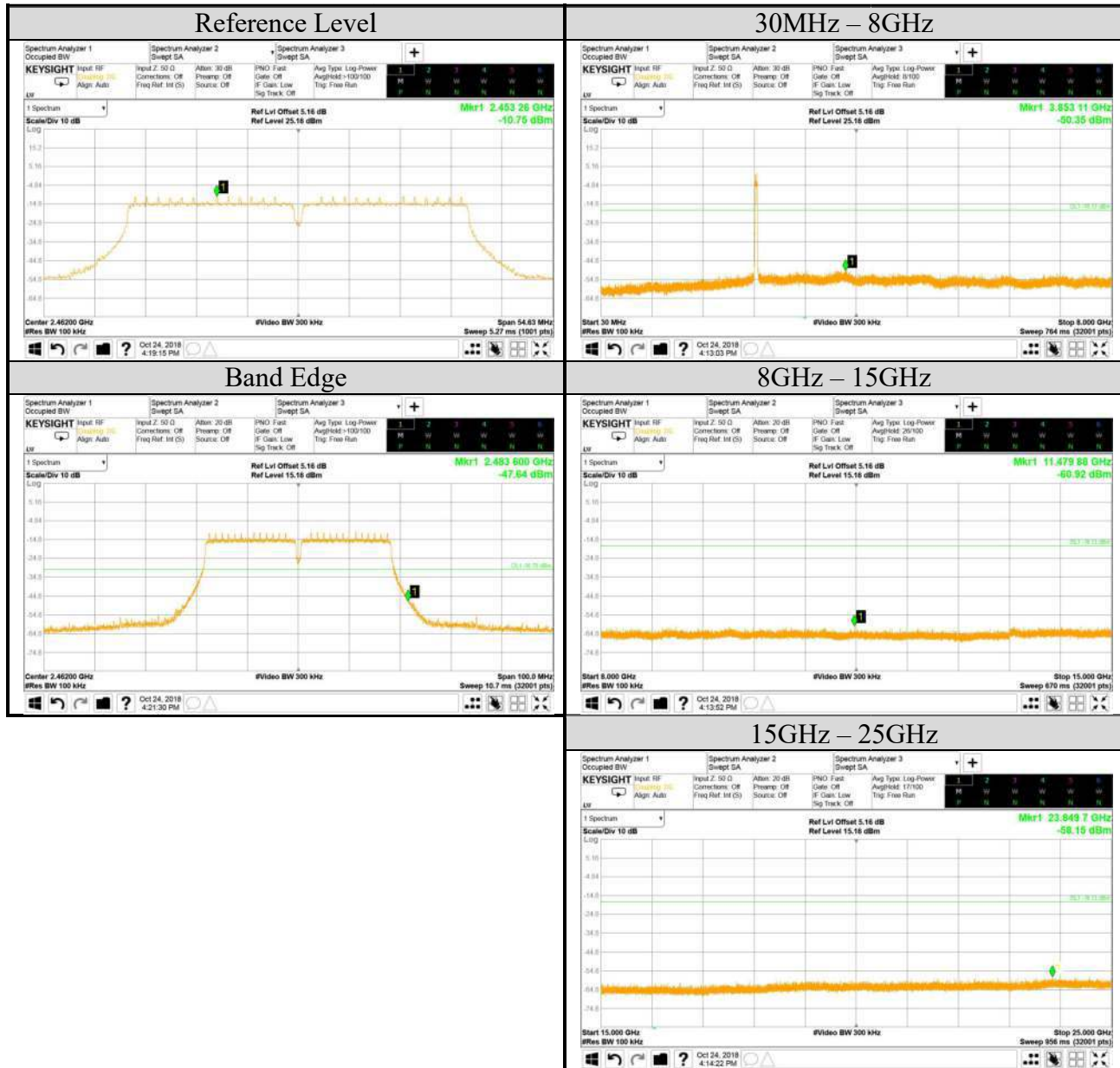
Test Date	2018/10/24	Temp./Hum.	24°C/52%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT40	Frequency	TX 2452MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City 244, Taiwan

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

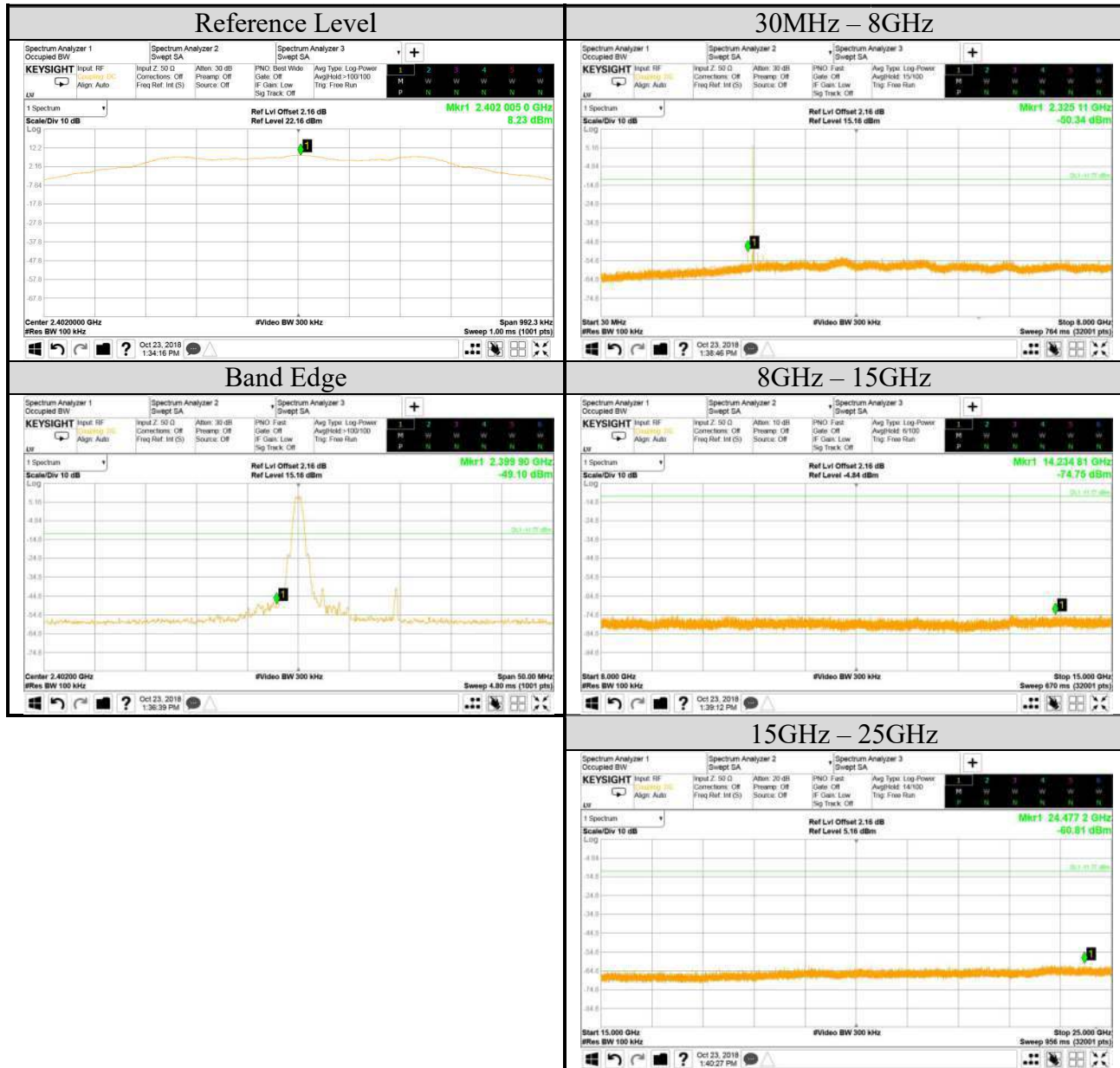
Test Date	2018/10/24	Temp./Hum.	24°C/52%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT40	Frequency	TX 2462MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City 244, Taiwan

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

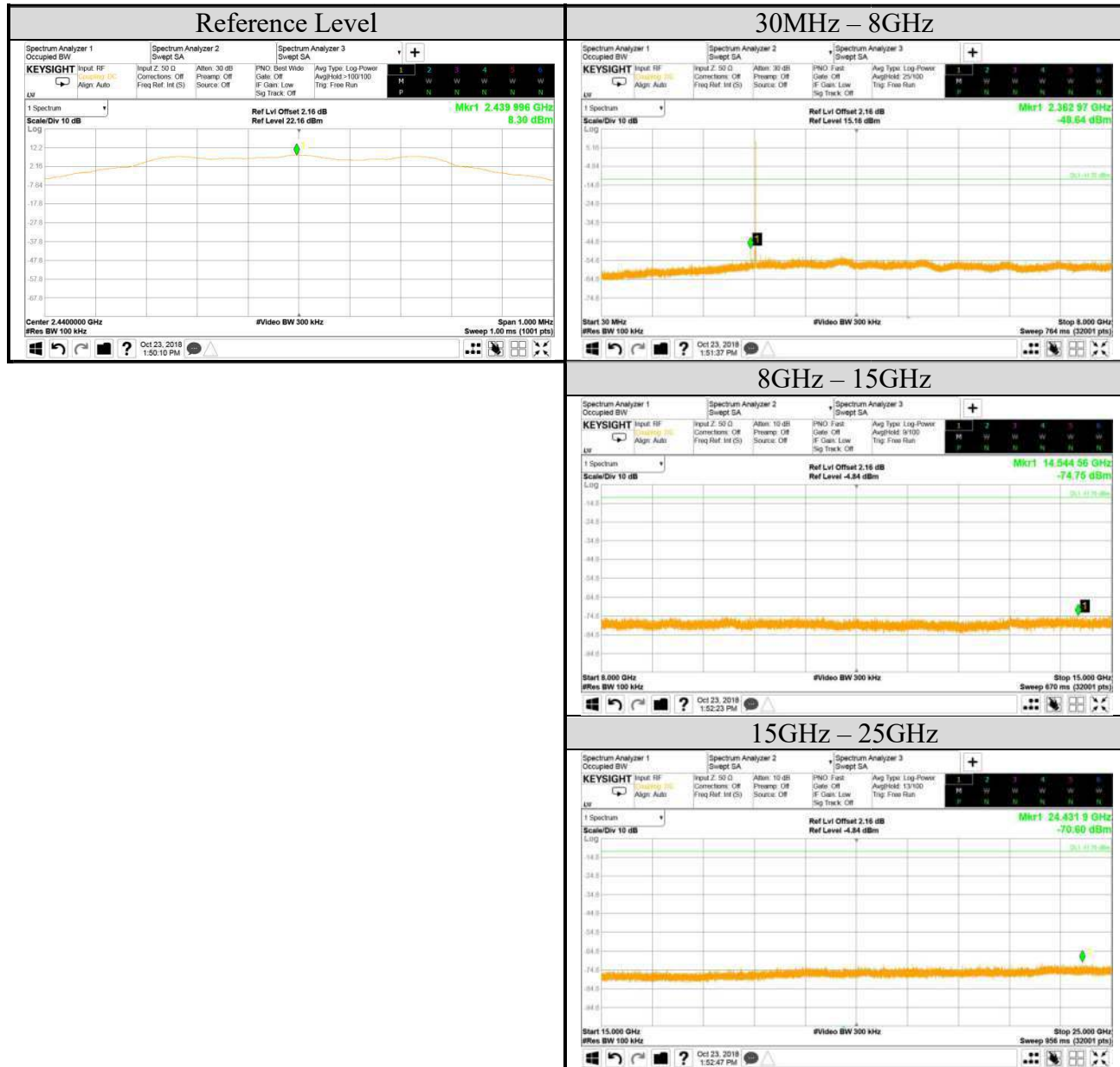
Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	BLE	Frequency	TX 2402MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	BLE	Frequency	TX 2440MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

Test Date	2018/10/23	Temp./Hum.	23°C/55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	BLE	Frequency	TX 2480MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



A.6 POWER SPECTRAL DENSITY

Test Date	2018/10/23~24	Temp./Hum.	23~24°C/52~55%
Cable Loss	2.16dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			802.11b/g, BLE: 0, 802.11n-HT20/40: 3

A.6.1 Power Spectral Density Result

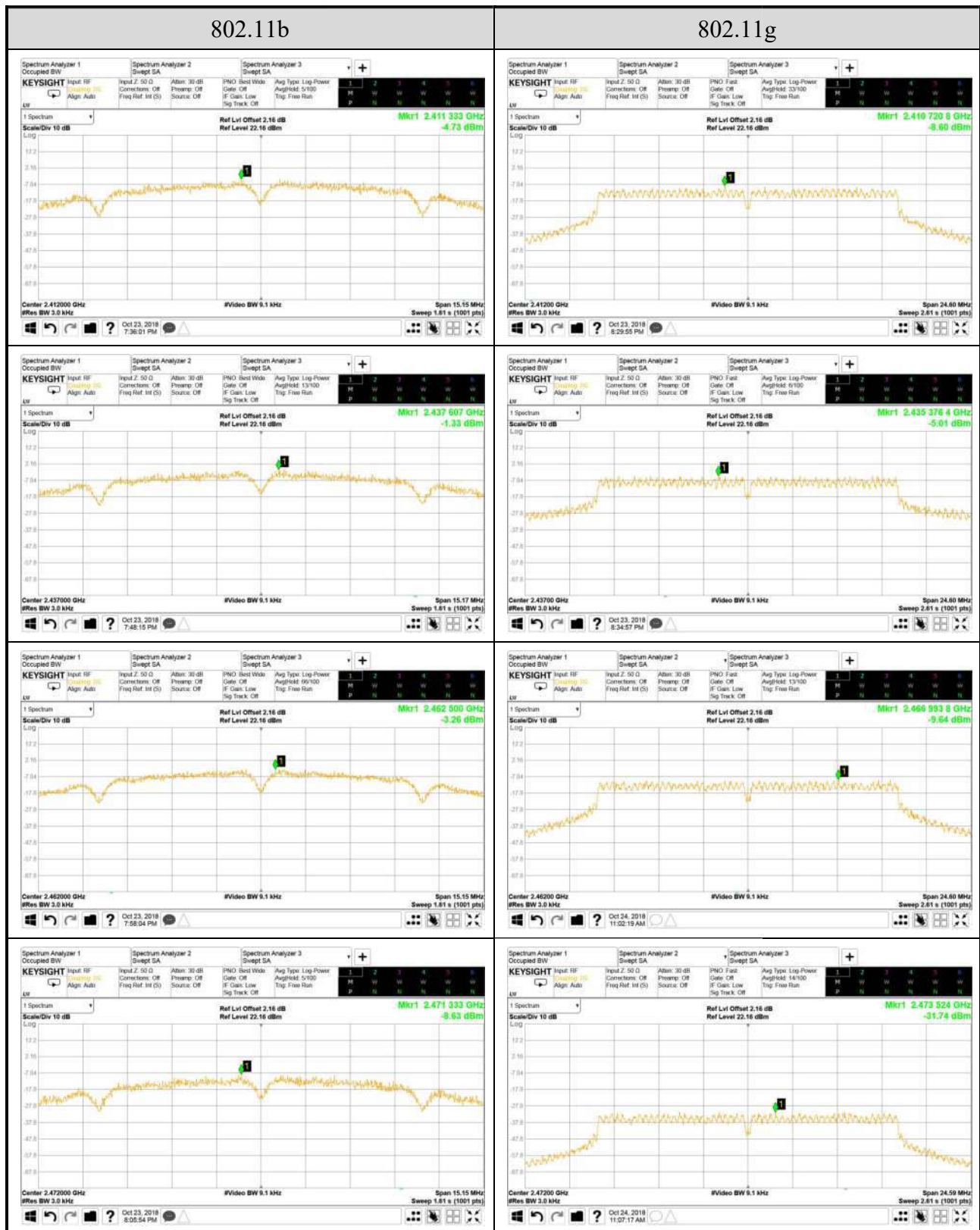
Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	-4.73	<8dBm/3kHz
	2437	-1.33	
	2462	-3.26	
	2472	-8.63	
802.11g	2412	-8.60	
	2437	-5.01	
	2462	-9.64	
	2472	-31.74	
802.11n-HT20	2412	-7.59	
	2437	-5.28	
	2462	-7.29	
	2472	-31.05	
802.11n-HT40	2422	-13.33	
	2437	-10.99	
	2452	-11.50	
	2462	-25.64	
BLE	2402	-6.74	
	2440	-6.37	
	2480	-7.23	

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

Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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

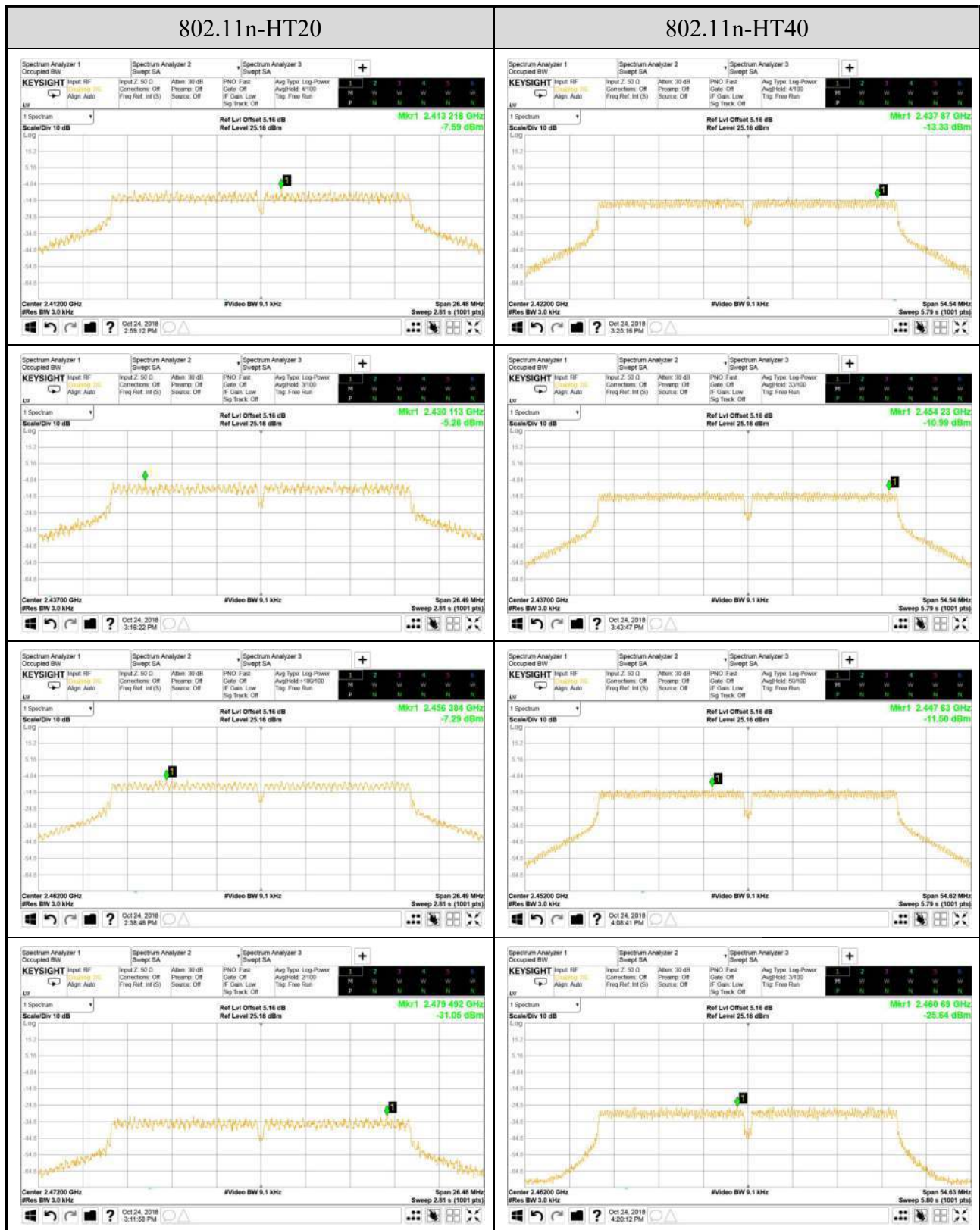
A.6.2 Measurement Plots



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

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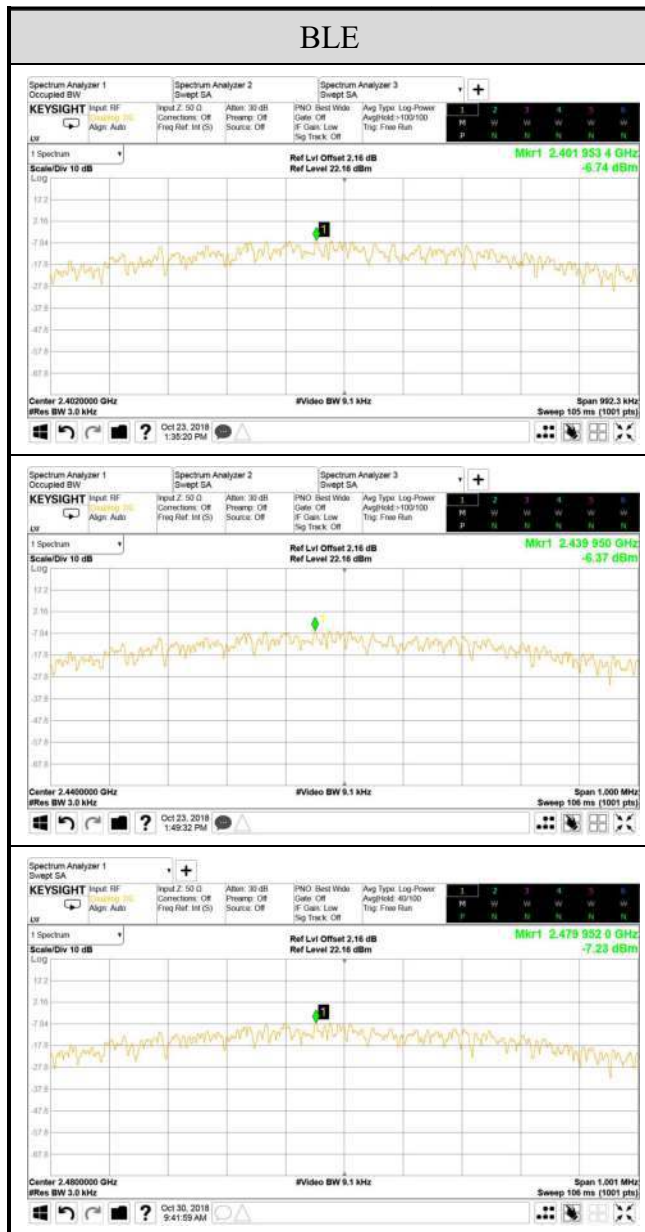
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Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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