Test Report No.10044135 001

Appendix D: Radiated and Mains Spurious Emission Data

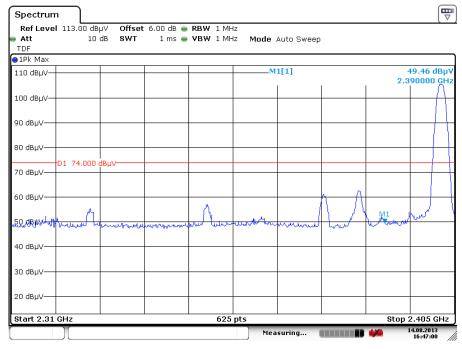
(File: 10044135AppendixD)

Contents

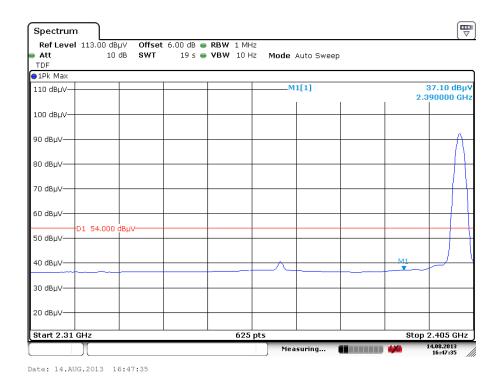
Spurious Emissions, Band Edges, 2.35-2.5G	2
Spurious Emissions, TX Mode, 1-18G	10
Spurious Emissions, TX Mode, 18-26G	22
Spurious Emissions, TX Mode, 30M-1G	34
Spurious Emissions, RX Mode, 1-18G	36
Spurious Emissions, RX Mode, 18-26G	42
Spurious Emissions, RX Mode, 30M-1G	48
Spurious Emissions, Mains, 150kHz - 30MHz	50

Radiated Bandedge (GFSK)

Low Channel (Hor)

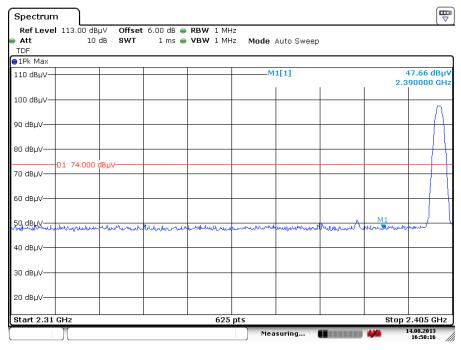


Date: 14.AUG.2013 16:47:00

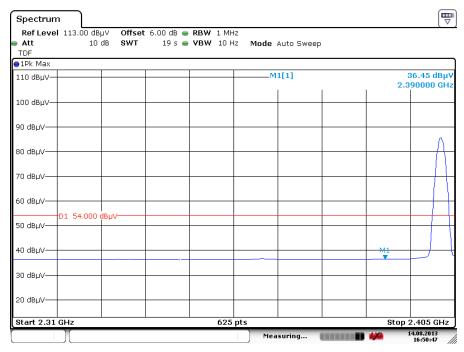


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



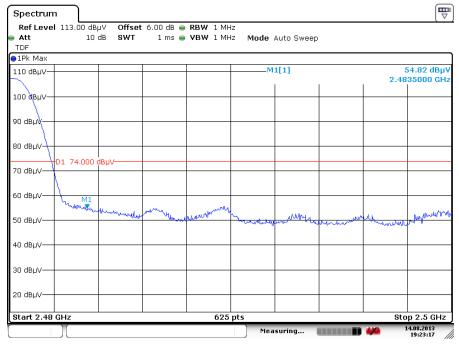
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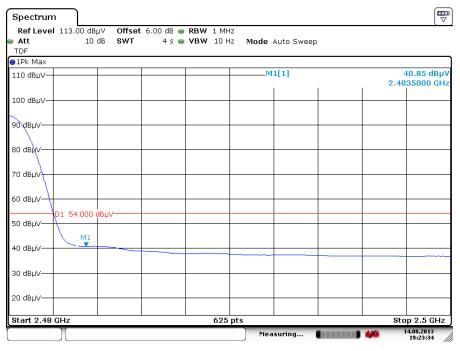
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Radiated Bandedge (GFSK)

High Channel (Hor)

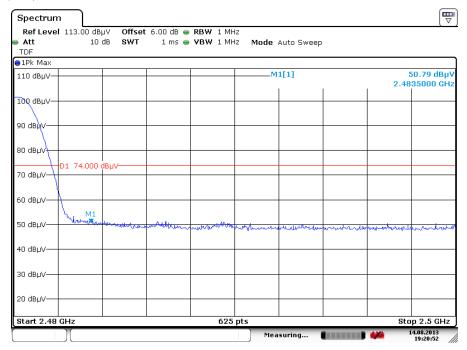


Date: 14.AUG.2013 19:23:17

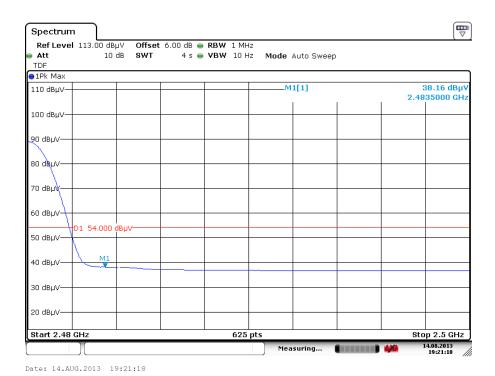


Date: 14.AUG.2013 19:23:34

High Channel (Ver)

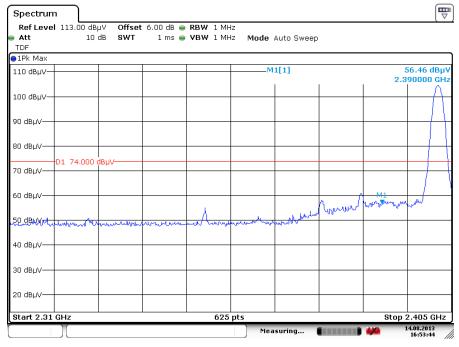


Date: 14.AUG.2013 19:20:51

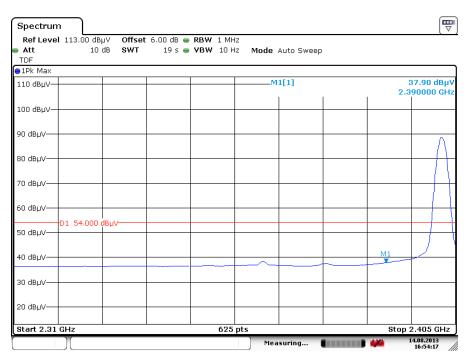


Radiated Bandedge (8DPSK)

Low Channel (Hor)

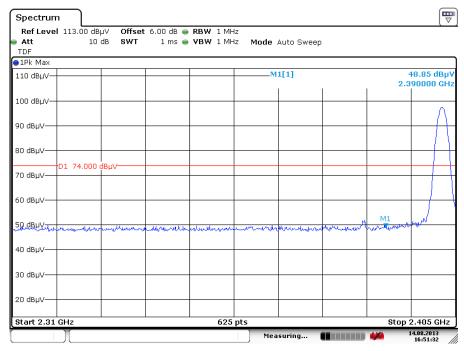


Date: 14.AUG.2013 16:53:44

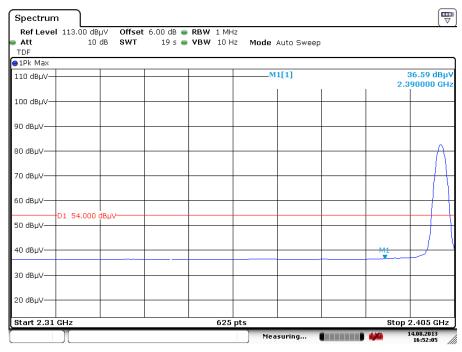


Date: 14.AUG.2013 16:54:16

Low Channel (Ver)



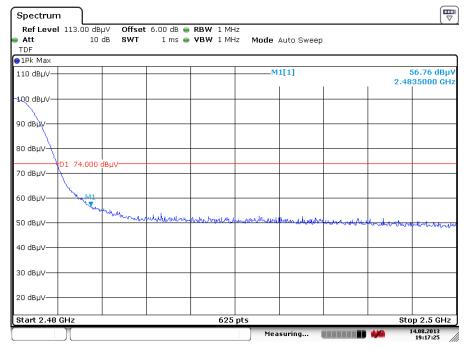
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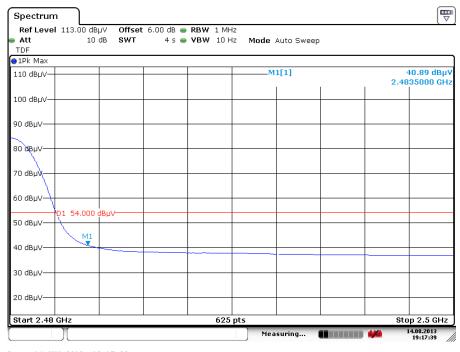
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Radiated Bandedge (8DPSK)

High Channel (Hor)

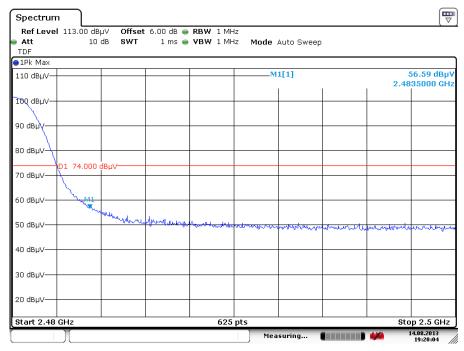


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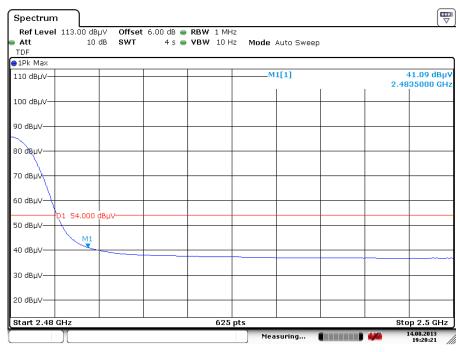


Date: 14.AUG.2013 19:17:39

High Channel (Ver)



Date: 14.AUG.2013 19:20:04



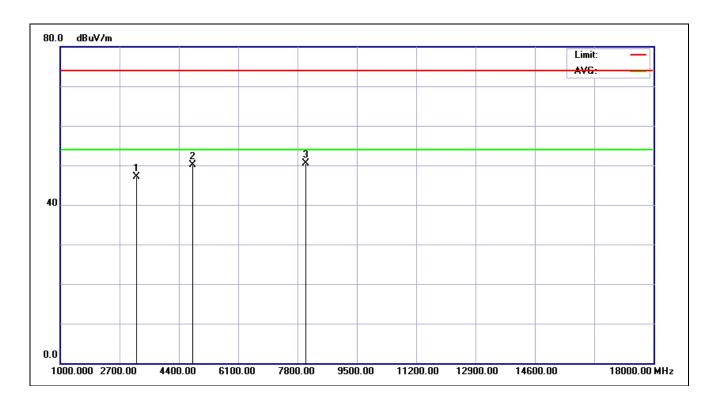
Date: 14.AUG.2013 19:20:21



TUV Taiwan

11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 19:33:36

Applicant: Wiser Test Rating: AC 230V/50Hz Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

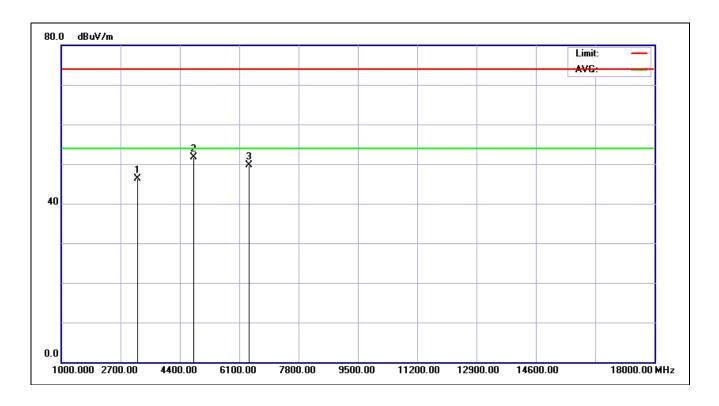
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(°)	
1	3179.487	-6.30	53.37	47.07	74.00	-26.93	peak	100	287	
2	4786.859	-2.80	52.94	50.14	74.00	-23.86	peak	100	359	
3	8028.846	6.01	44.58	50.59	74.00	-23.41	peak	100	73	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 19:34:37

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

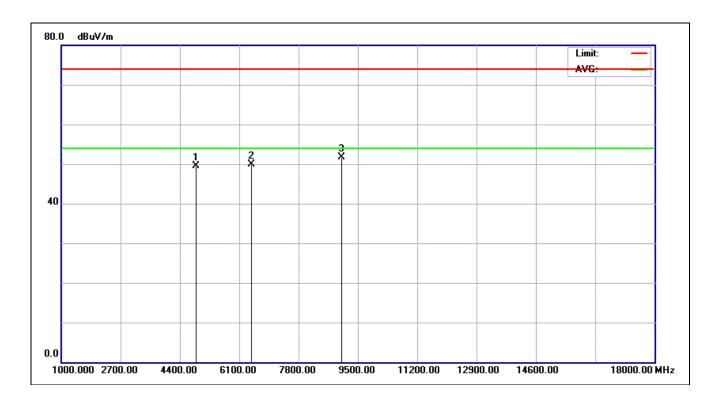
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3179.487	-6.29	52.51	46.22	74.00	-27.78	peak	100	94	
2	4786.859	-2.80	54.54	51.74	74.00	-22.26	peak	100	357	
3	6394.231	5.07	44.73	49.80	74.00	-24.20	peak	100	19	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 19:36:19

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

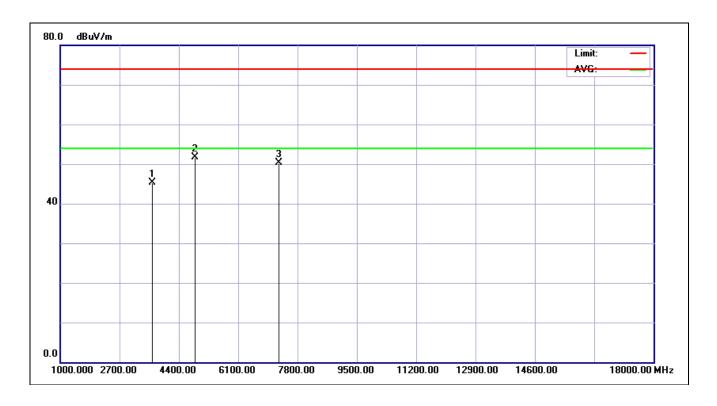
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4868.590	-2.57	52.08	49.51	74.00	-24.49	peak	100	97	
2	6448.718	5.26	44.55	49.81	74.00	-24.19	peak	100	249	
3	9036.859	6.87	44.89	51.76	74.00	-22.24	peak	100	314	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 19:37:21

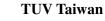
Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

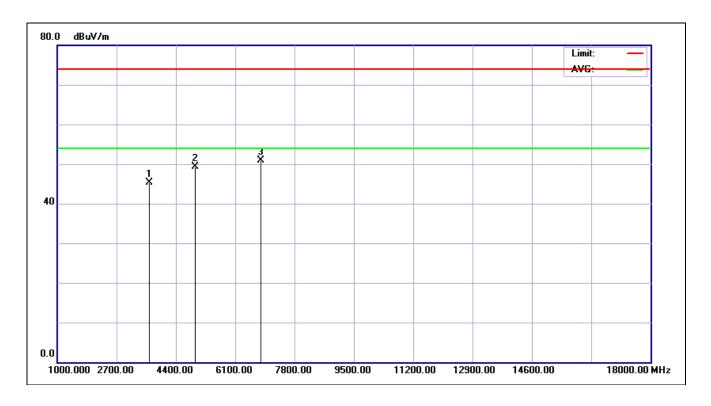
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3642.628	-5.76	51.16	45.40	74.00	-28.60	peak	100	320	
2	4868.590	-2.57	54.32	51.75	74.00	-22.25	peak	100	68	
3	7266.026	5.59	44.64	50.23	74.00	-23.77	peak	100	100	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 19:39:09

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

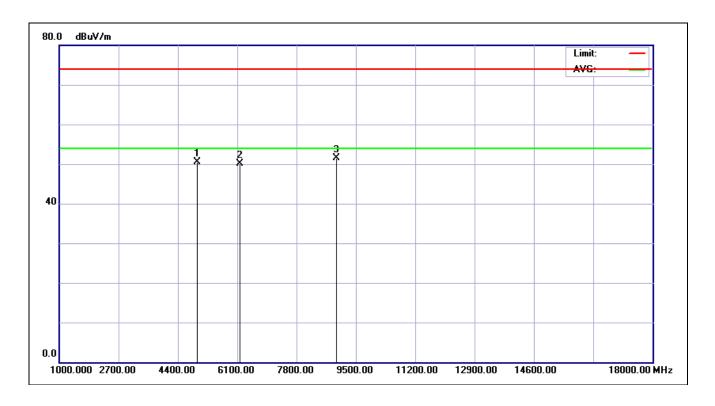
Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3642.628	-5.76	51.01	45.25	74.00	-28.75	peak	100	108	
2	4950.320	-2.36	51.68	49.32	74.00	-24.68	peak	100	92	
3	6830.128	5.04	45.93	50.97	74.00	-23.03	peak	100	360	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 19:40:11

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

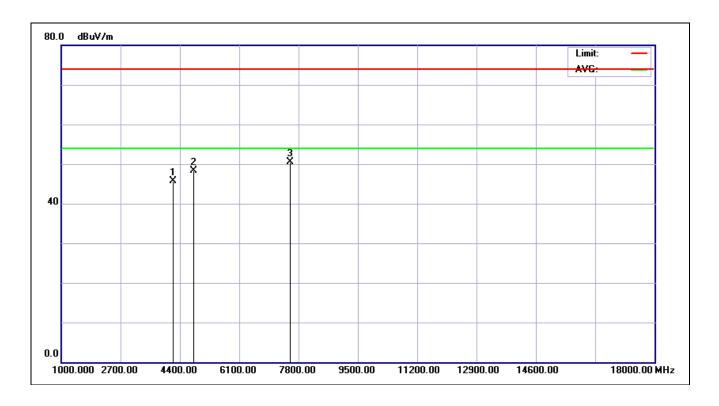
Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4950.320	-2.36	52.78	50.42	74.00	-23.58	peak	100	65	
2	6176.282	4.30	45.83	50.13	74.00	-23.87	peak	100	129	
3	8955.128	6.87	44.57	51.44	74.00	-22.56	peak	100	0	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 19:41:51

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

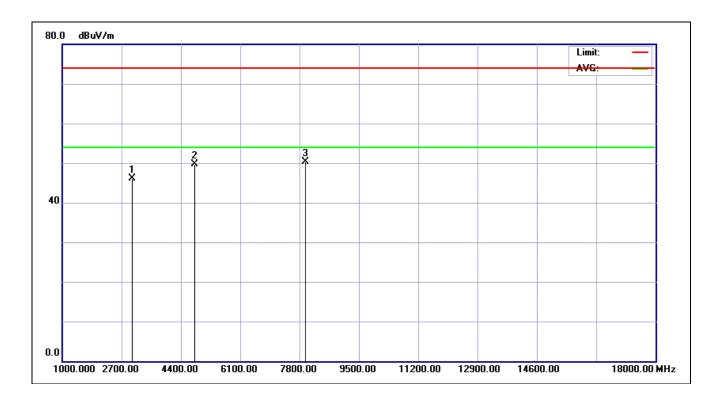
Test Mode: EDR-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4214.743	-4.66	50.34	45.68	74.00	-28.32	peak	100	306	
2	4786.859	-2.80	51.03	48.23	74.00	-25.77	peak	100	4	
3	7565.705	6.21	44.25	50.46	74.00	-23.54	peak	100	65	





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Service No.: 113154149-RF **Test Distance:** 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: **Radiation Emission Test Time:** 2013/8/14 19:42:53

Applicant: Wiser **Test Rating:** AC 230V/50Hz

Product: Temp.(°C)/Hum.(%): Wireless device 24(℃)/49%

Model No.: **Wiser Controller MKII Test Engineer: Hugo Chang**

Test Mode: EDR-2402-TX

Remark:

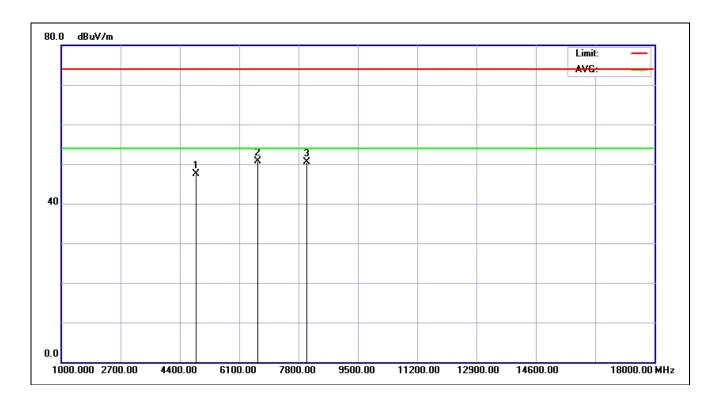
TÜVRheinland

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3016.026	-6.50	52.53	46.03	74.00	-27.97	peak	100	0	
2	4786.859	-2.80	52.54	49.74	74.00	-24.26	peak	100	68	
3	7974.359	5.99	44.37	50.36	74.00	-23.64	peak	100	226	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 19:44:34

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

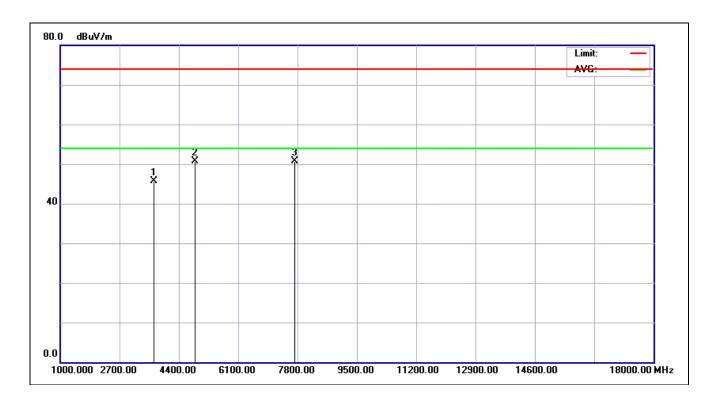
Test Mode: EDR-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4868.590	-2.57	50.06	47.49	74.00	-26.51	peak	100	349	
2	6639.423	5.27	45.34	50.61	74.00	-23.39	peak	100	161	
3	8028.846	6.01	44.43	50.44	74.00	-23.56	peak	100	3	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 19:45:36

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

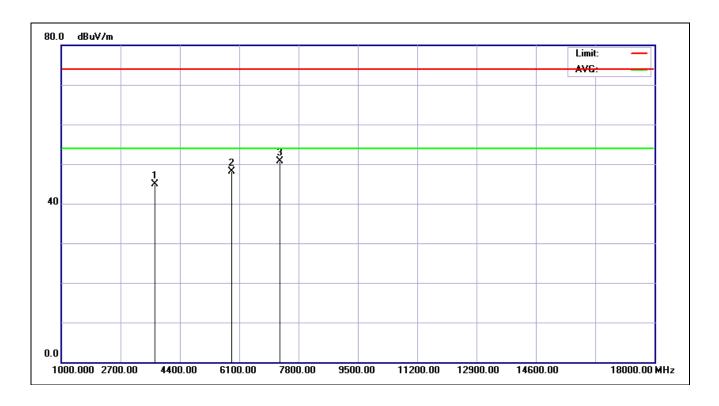
Test Mode: EDR-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3697.115	-5.71	51.46	45.75	74.00	-28.25	peak	100	279	
2	4868.590	-2.57	53.24	50.67	74.00	-23.33	peak	100	173	
3	7729.167	6.13	44.57	50.70	74.00	-23.30	peak	100	306	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 19:47:12

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

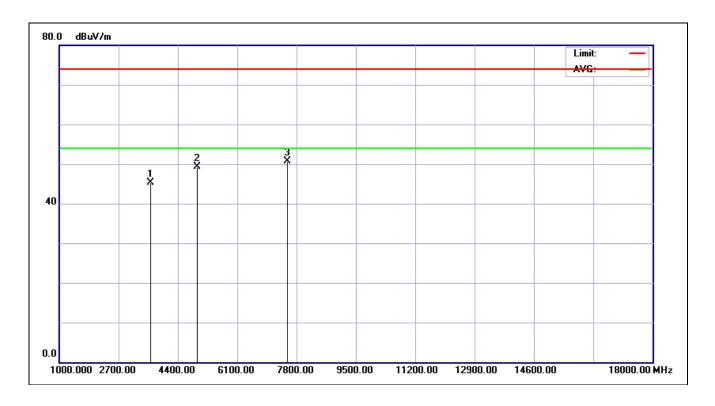
Test Mode: EDR-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3697.115	-5.71	50.63	44.92	74.00	-29.08	peak	100	73	
2	5876.602	2.83	45.35	48.18	74.00	-25.82	peak	100	113	
3	7266.026	5.59	45.18	50.77	74.00	-23.23	peak	100	92	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 19:48:14

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Test Mode: EDR-2480-TX

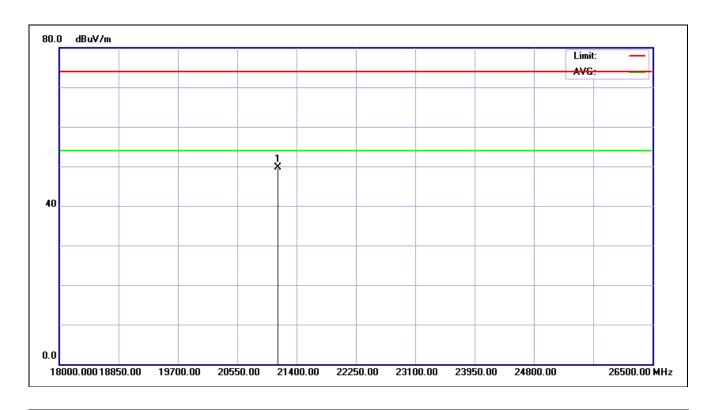
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3615.385	-5.77	51.01	45.24	74.00	-28.76	peak	100	199	
2	4950.320	-2.36	51.59	49.23	74.00	-24.77	peak	100	70	
3	7538.462	6.23	44.51	50.74	74.00	-23.26	peak	100	191	



TUV Taiwan

11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:14:35

Applicant: Wiser Test Rating: AC 110V/60Hz Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

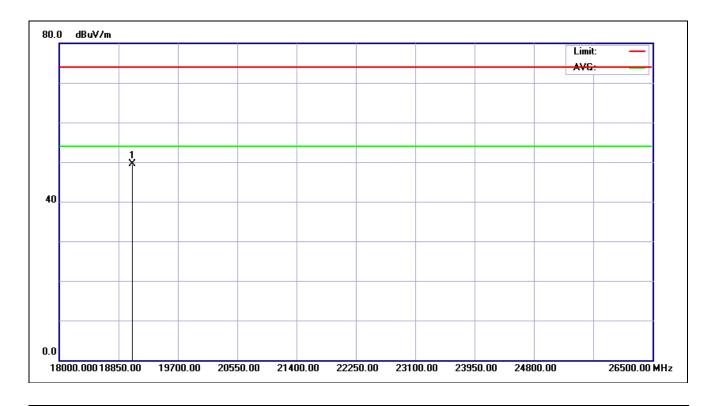
Test Mode: BT-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	21133.013	29.55	20.13	49.68	74.00	-24.32	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:15:16

Applicant: Wiser Test Rating:

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Test Mode: BT-2402-TX

Remark:

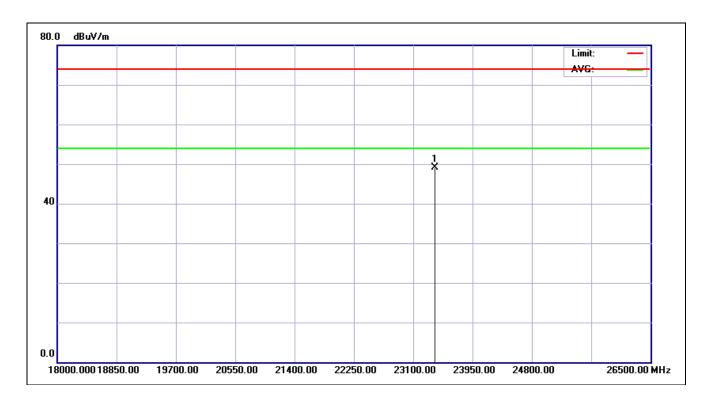
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	19048.878	29.87	19.72	49.59	74.00	-24.41	peak			

AC 110V/60Hz





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:15:49

Test Rating:

AC 110V/60Hz

Applicant: Wiser

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

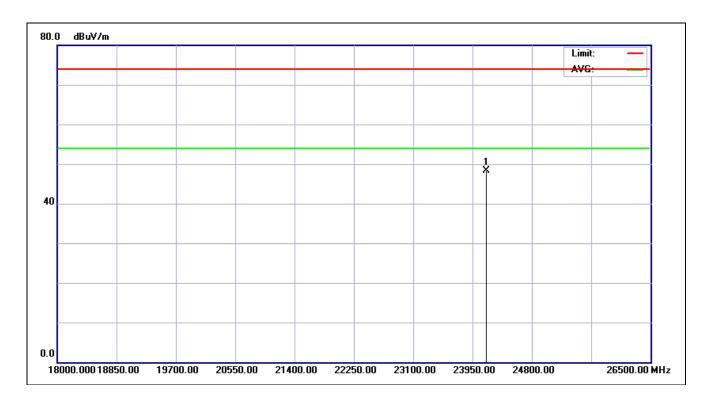
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23407.853	30.15	18.89	49.04	74.00	-24.96	peak			





Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:16:20

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

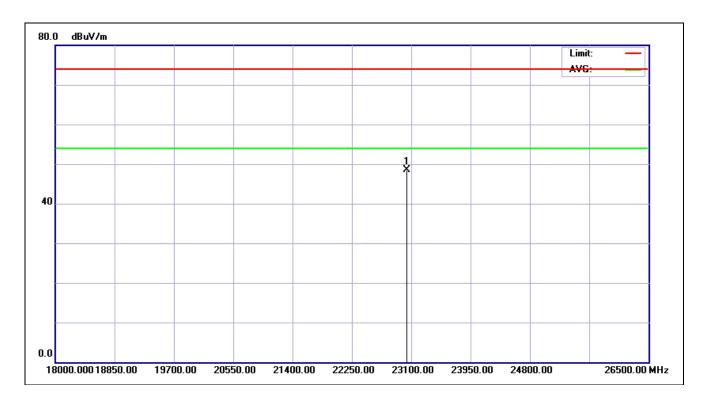
Test Mode: BT-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	24143.429	29.31	18.96	48.27	74.00	-25.73	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:16:54

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

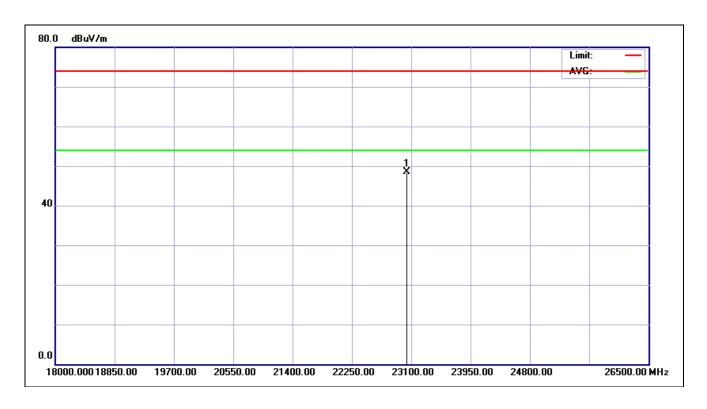
Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23040.064	30.27	18.20	48.47	74.00	-25.53	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:17:23

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

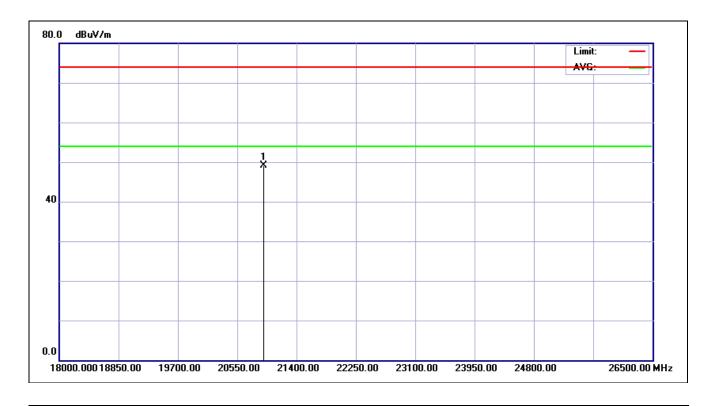
Test Mode: BT-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23040.064	30.27	18.28	48.55	74.00	-25.45	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:17:55

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

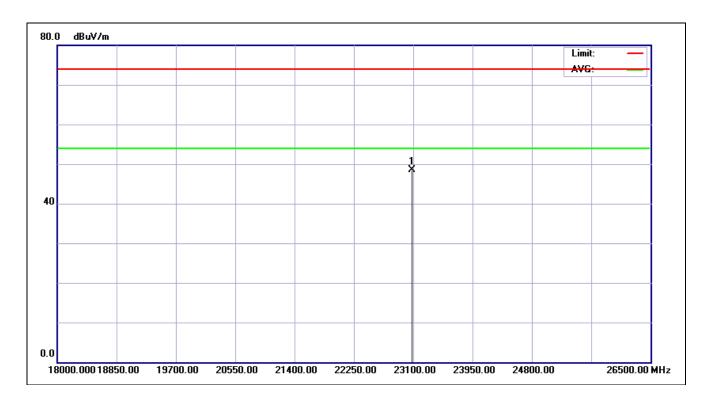
Test Mode: EDR-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	20928.686	29.58	19.55	49.13	74.00	-24.87	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:18:43

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49% Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Model No.: Wiser Controller MKII Test Engineer:
Test Mode: EDR-2402-TX

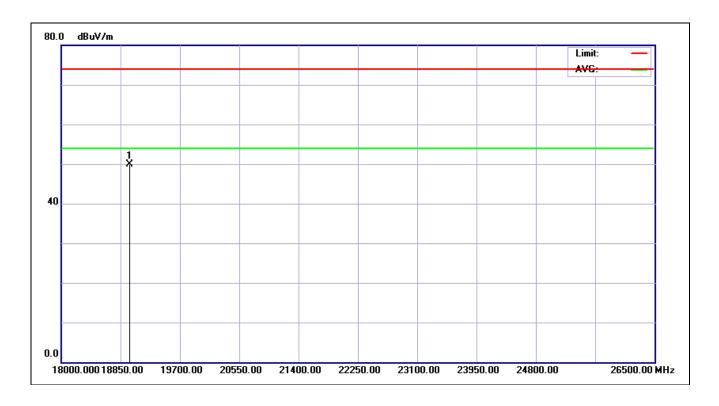
165t Wode. EDR-2402-17

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23080.929	30.25	18.27	48.52	74.00	-25.48	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:19:16

Applicant: Wiser Test Rating:

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Test Mode: EDR-2441-TX

Remark:

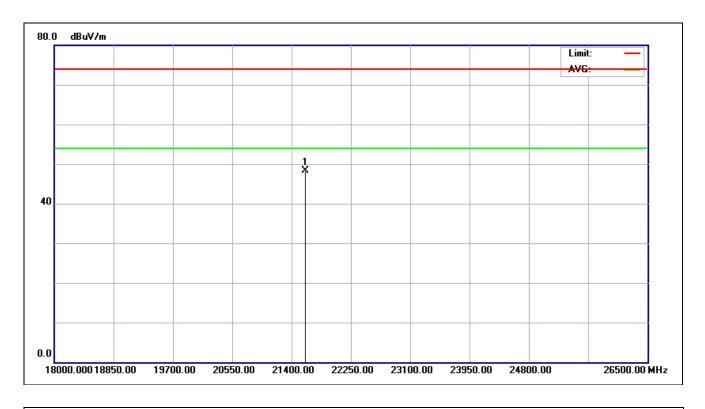
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	18980.769	29.93	20.06	49.99	74.00	-24.01	peak			

AC 110V/60Hz





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:19:44

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

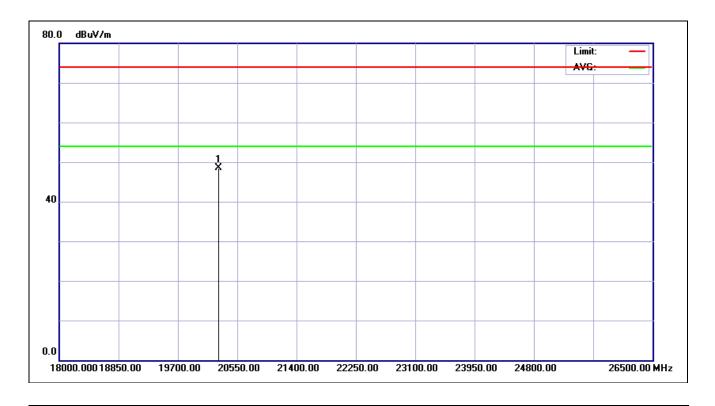
Test Mode: EDR-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	21596.154	29.43	18.91	48.34	74.00	-25.66	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:20:17

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

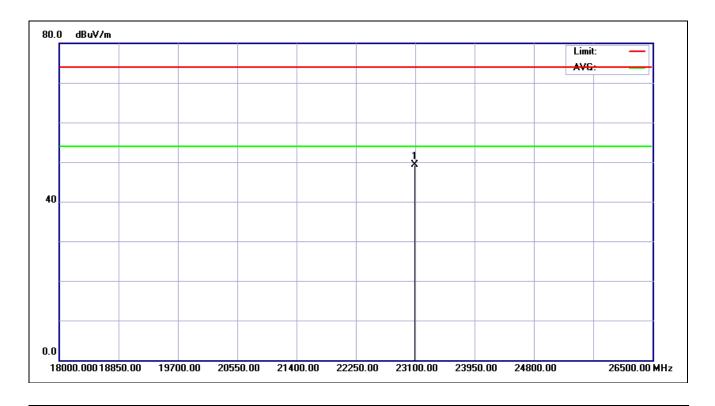
Test Mode: EDR-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	20288.462	29.46	19.10	48.56	74.00	-25.44	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:20:48

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Test Mode: EDR-2480-TX

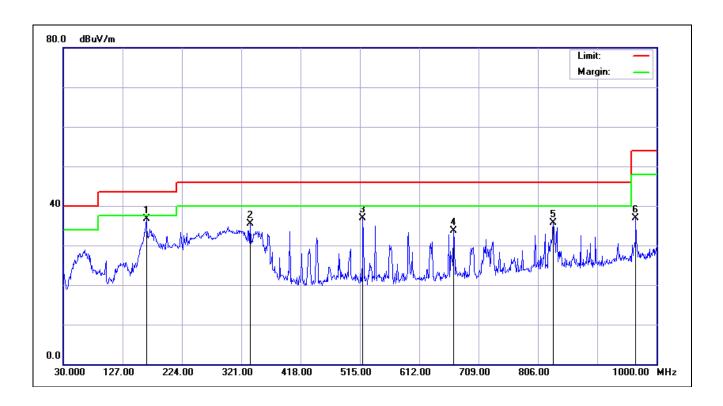
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23094.551	30.24	18.97	49.21	74.00	-24.79	peak			



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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 14:49:57

Applicant: Wiser Test Rating: AC 110V/60Hz Product: Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

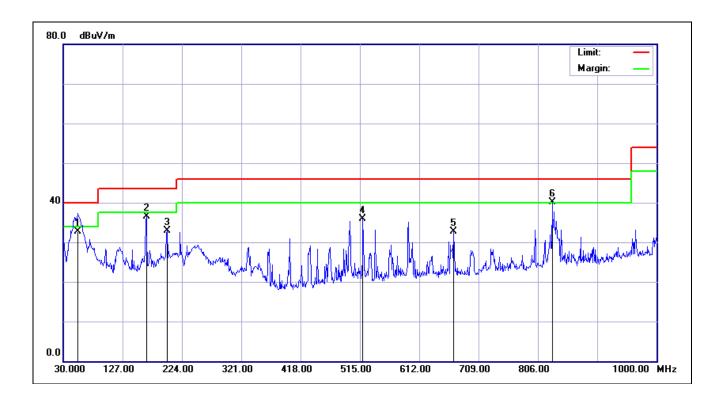
Test Mode: TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(°)	
1	165.8000	-14.50	51.26	36.76	43.50	-6.74	QP	200	312	
2	335.5500	-9.73	45.16	35.43	46.00	-10.57	QP	100	81	
3	519.8500	-7.10	44.00	36.90	46.00	-9.10	QP	200	360	
4	668.2600	-5.29	38.96	33.67	46.00	-12.33	QP	200	360	
5	831.2200	-2.86	38.51	35.65	46.00	-10.35	QP	100	261	
6	966.0500	-0.56	37.44	36.88	54.00	-17.12	QP	200	304	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 14:53:56

Applicant: Wiser Test Rating: AC 110V/60Hz Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Test Mode: TX

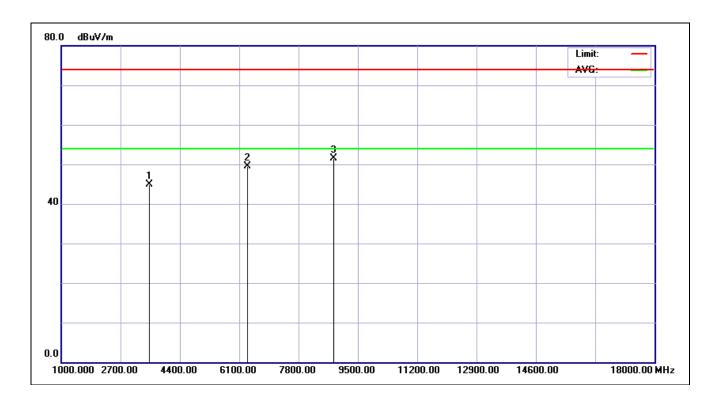
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	54.2500	-18.12	50.89	32.77	40.00	-7.23	QP	100	185	
2	165.8000	-14.50	50.91	36.41	43.50	-7.09	QP	100	2	
3	199.7500	-15.13	48.12	32.99	43.50	-10.51	QP	100	3	
4	519.8500	-7.10	42.98	35.88	46.00	-10.12	QP	100	243	
5	668.2600	-5.29	37.97	32.68	46.00	-13.32	QP	100	65	
6	829.2800	-2.89	43.04	40.15	46.00	-5.85	QP	100	12	



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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 19:55:54

Applicant: Wiser Test Rating: AC 230V/50Hz Product: Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

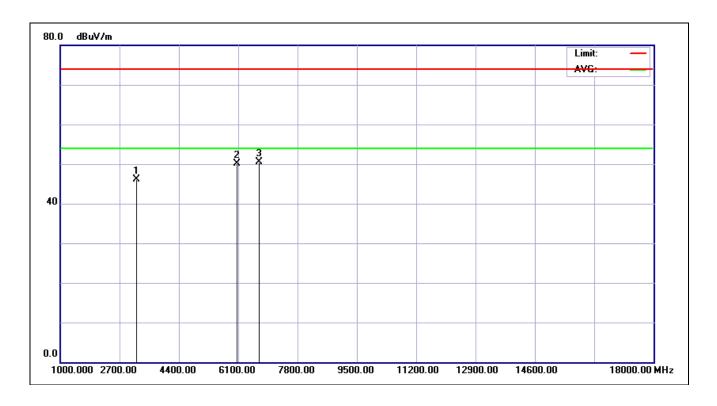
Test Mode: 2402-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3533.654	-5.84	50.75	44.91	74.00	-29.09	peak	100	27	
2	6339.743	4.88	44.67	49.55	74.00	-24.45	peak	100	271	
3	8818.910	6.74	44.77	51.51	74.00	-22.49	peak	100	247	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 19:56:56

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

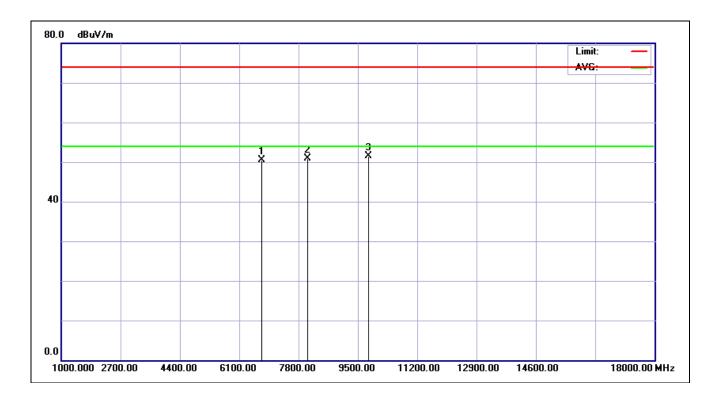
Test Mode: 2402-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	3179.487	-6.29	52.35	46.06	74.00	-27.94	peak	100	183	
2	6067.308	3.91	46.17	50.08	74.00	-23.92	peak	100	52	
3	6693.910	5.22	45.20	50.42	74.00	-23.58	peak	100	199	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 19:59:08

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

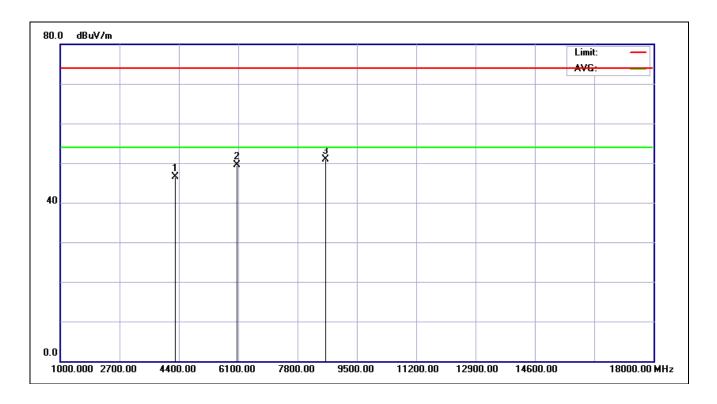
Test Mode: 2441-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	6748.397	5.14	45.31	50.45	74.00	-23.55	peak	100	332	
2	8056.090	6.04	44.89	50.93	74.00	-23.07	peak	100	13	
3	9799.679	5.88	45.72	51.60	74.00	-22.40	peak	100	161	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:00:10

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

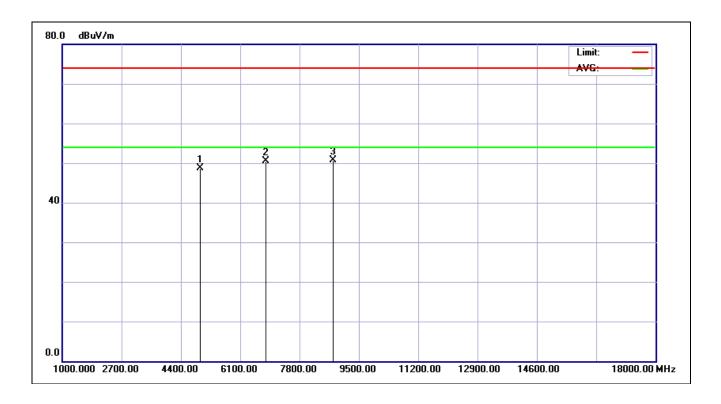
Test Mode: 2441-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4296.474	-4.34	50.84	46.50	74.00	-27.50	peak	100	81	
2	6067.308	3.91	45.59	49.50	74.00	-24.50	peak	100	201	
3	8600.961	6.55	44.45	51.00	74.00	-23.00	peak	100	27	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:01:46

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

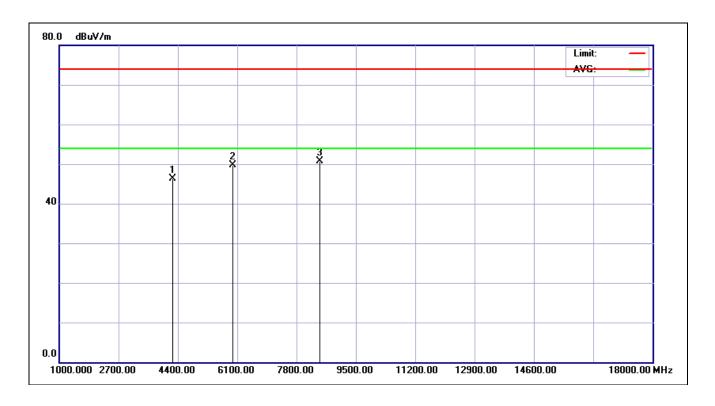
Test Mode: 2480-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4950.320	-2.36	51.12	48.76	74.00	-25.24	peak	100	92	
2	6830.128	5.04	45.46	50.50	74.00	-23.50	peak	100	169	
3	8764.423	6.69	43.99	50.68	74.00	-23.32	peak	100	145	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:02:47

Applicant: Wiser Test Rating: AC 230V/50Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

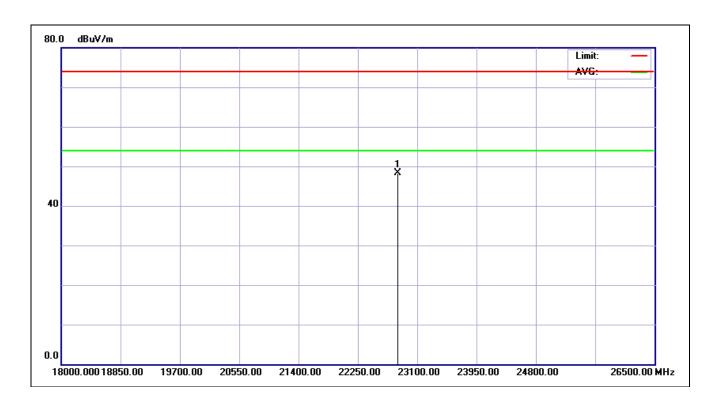
Test Mode: 2480-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4241.987	-4.54	50.78	46.24	74.00	-27.76	peak	100	258	
2	5985.577	3.58	46.11	49.69	74.00	-24.31	peak	100	129	
3	8464.744	6.42	44.24	50.66	74.00	-23.34	peak	100	86	



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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:11:21

Applicant: Wiser Test Rating: AC 110V/60Hz Product: Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

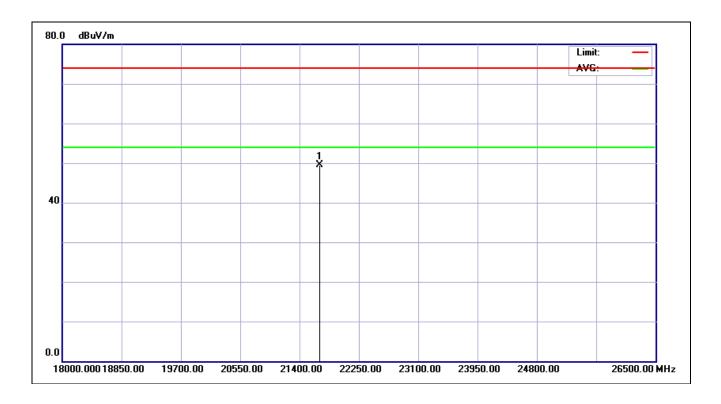
Test Mode: 2402-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	22822.115	29.82	18.58	48.40	74.00	-25.60	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

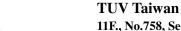
Test item: Radiation Emission Test Time: 2013/8/14 20:12:02

Applicant: Wiser Test Rating: AC 110V/60Hz Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Test Mode: 2402-RX

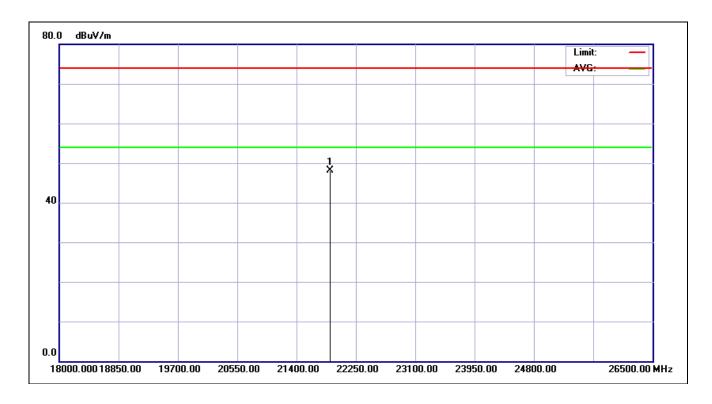
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	21691.506	29.43	20.09	49.52	74.00	-24.48	peak			



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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:12:29

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

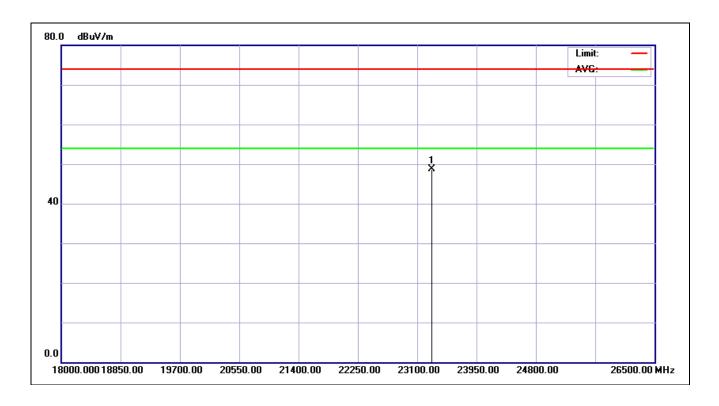
Test Mode: 2441-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	21882.212	29.41	18.72	48.13	74.00	-25.87	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:13:05

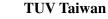
Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

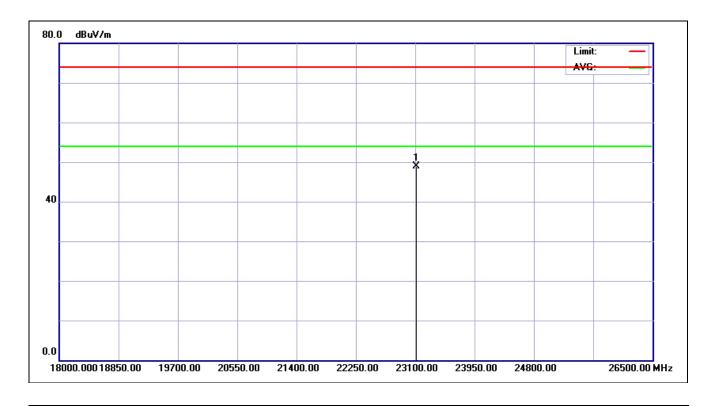
Test Mode: 2441-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23312.500	30.18	18.59	48.77	74.00	-25.23	peak			





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 20:13:34

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Test Mode: 2480-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23121.795	30.24	18.71	48.95	74.00	-25.05	peak			

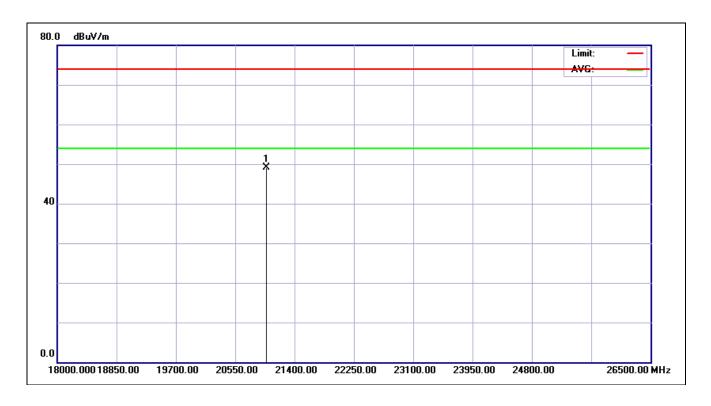


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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 20:14:01

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

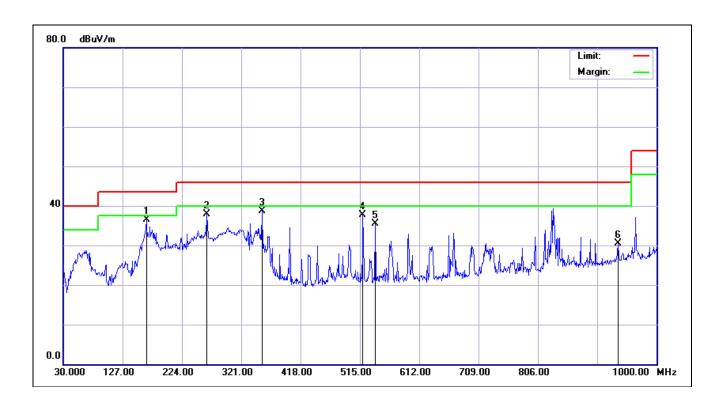
Test Mode: 2480-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	20996.795	29.58	19.55	49.13	74.00	-24.87	peak			



11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2013/8/14 14:58:50

Applicant: Wiser Test Rating: AC 110V/60Hz Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

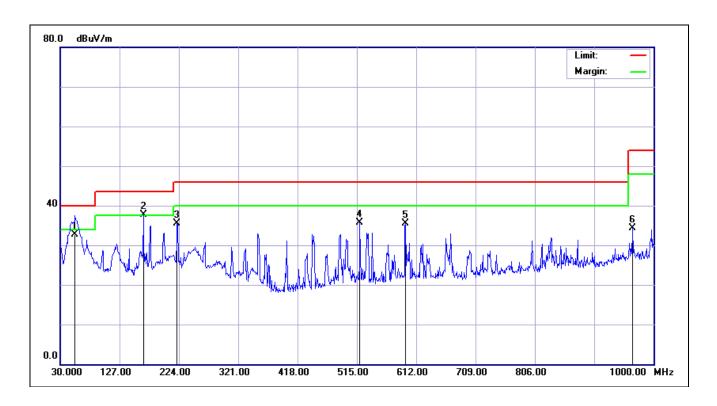
Test Mode: RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	165.8000	-14.50	50.97	36.47	43.50	-7.03	QP	100	169	
2	264.7400	-11.05	49.05	38.00	46.00	-8.00	QP	200	360	
3	354.9500	-9.37	48.04	38.67	46.00	-7.33	QP	400	81	
4	519.8500	-7.10	44.73	37.63	46.00	-8.37	QP	200	360	
5	540.2200	-6.94	42.46	35.52	46.00	-10.48	QP	200	360	
6	936.9500	-0.93	31.49	30.56	46.00	-15.44	QP	100	238	





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Service No.: 113154149-RF Test Distance: 3M

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2013/8/14 15:02:49

Applicant: Wiser Test Rating: AC 110V/60Hz

Product: Wireless device Temp.($^{\circ}$)/Hum.($^{\circ}$): 24($^{\circ}$)/49%

Model No.: Wiser Controller MKII Test Engineer: Hugo Chang

Test Mode: RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	54.2500	-18.12	50.90	32.78	40.00	-7.22	QP	100	201	
2	165.8000	-14.50	52.23	37.73	43.50	-5.77	QP	100	360	
3	221.0900	-14.14	49.61	35.47	46.00	-10.53	QP	100	360	
4	519.8500	-7.10	42.76	35.66	46.00	-10.34	QP	100	229	
5	594.5400	-6.06	41.49	35.43	46.00	-10.57	QP	100	160	
6	966.0500	-0.56	34.81	34.25	54.00	-19.75	QP	100	360	

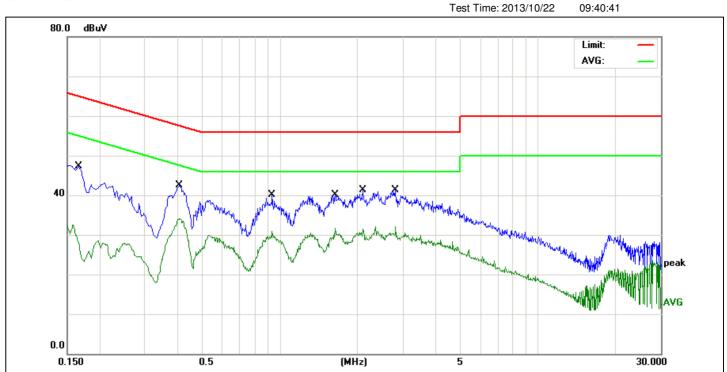
Mains Spurious Emissions



Site: Conduction

11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105 Tel:+886-2172-7000 fax:+886-2528-0018

Test Time: 2013/10/22



Service No.: 113154149-RF

Test Standard: **NCC Class B Conduction**

Test item: **Conducted Emission** L1 Phase:

Applicant: Schneider Electric Temp.(°C)/Hum.(%): **24(℃) / 56 %**

Product: Wireless device **Power Rating:** AC 110V/60Hz Model No.: wiser controller MKII Test Engineer: **Hugo Chang**

Test Mode: ВТ

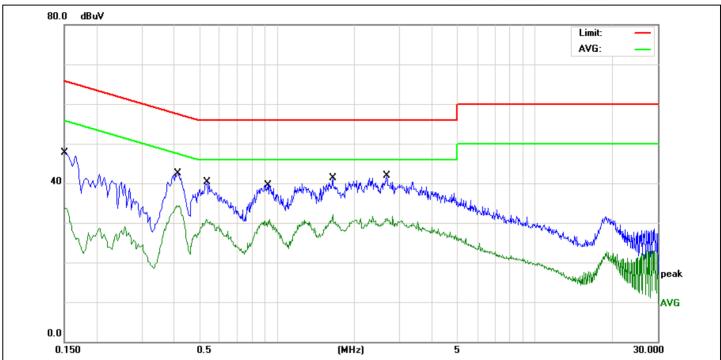
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1660	9.62	30.63	40.25	65.15	-24.90	QP	Р	
2	0.1660	9.62	15.33	24.95	55.15	-30.20	AVG	Р	
3	0.4100	9.59	29.04	38.63	57.65	-19.02	QP	Р	
4	0.4100	9.59	23.77	33.36	47.65	-14.29	AVG	Р	
5	0.9380	9.60	26.21	35.81	56.00	-20.19	QP	Р	
6	0.9380	9.60	20.71	30.31	46.00	-15.69	AVG	Р	
7	1.6420	9.61	27.17	36.78	56.00	-19.22	QP	Р	
8	1.6420	9.61	21.56	31.17	46.00	-14.83	AVG	Р	
9	2.1099	9.62	26.40	36.02	56.00	-19.98	QP	Р	
10	2.1099	9.62	20.88	30.50	46.00	-15.50	AVG	Р	
11	2.8060	9.64	25.05	34.69	56.00	-21.31	QP	Р	
12	2.8060	9.64	19.49	29.13	46.00	-16.87	AVG	Р	



Site: Conduction 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018

Test Time: 2013/10/22 09:45:17



Service No.: 113154149-RF

Test Standard: **NCC Class B Conduction**

Test item: **Conducted Emission** Ν Phase:

Applicant: Schneider Electric Temp.(°C)/Hum.(%): **24(℃) / 56 %**

Product: Wireless device **Power Rating:** AC 110V/60Hz Model No.: wiser controller MKII Test Engineer: **Hugo Chang**

Test Mode: ВТ

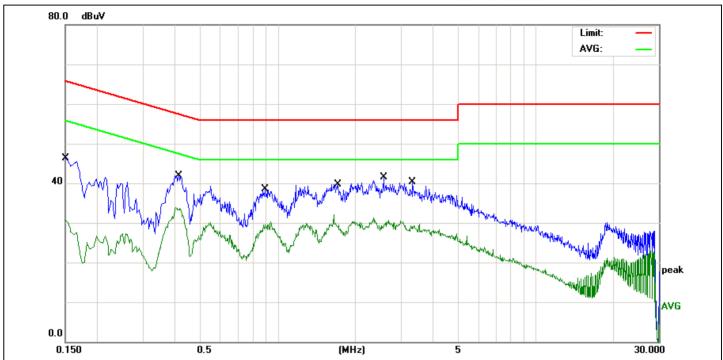
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	9.59	33.90	43.49	65.99	-22.50	QP	Р	
2	0.1500	9.59	22.18	31.77	55.99	-24.22	AVG	Р	
3	0.4140	9.57	29.64	39.21	57.57	-18.36	QP	Р	
4	0.4140	9.57	24.34	33.91	47.57	-13.66	AVG	Р	
5	0.5380	9.57	25.98	35.55	56.00	-20.45	QP	Р	
6	0.5380	9.57	20.68	30.25	46.00	-15.75	AVG	Р	
7	0.9260	9.57	25.09	34.66	56.00	-21.34	QP	Р	
8	0.9260	9.57	19.98	29.55	46.00	-16.45	AVG	Р	
9	1.6460	9.58	27.55	37.13	56.00	-18.87	QP	Р	
10	1.6460	9.58	22.01	31.59	46.00	-14.41	AVG	Р	
11	2.6740	9.59	25.87	35.46	56.00	-20.54	QP	Р	
12	2.6740	9.59	20.38	29.97	46.00	-16.03	AVG	Р	



Site: Conduction

11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105 Tel:+886-2172-7000 fax:+886-2528-0018

> Test Time: 2013/10/22 09:47:31



Service No.: 113154149-RF

Test Standard: **NCC Class B Conduction**

Test item: **Conducted Emission** L1 Phase:

Applicant: Schneider Electric Temp.(°C)/Hum.(%): **24(℃) / 56 %**

Product: Wireless device **Power Rating:** AC 110V/60Hz Model No.: wiser controller MKII Test Engineer: **Hugo Chang**

Test Mode: WIFI

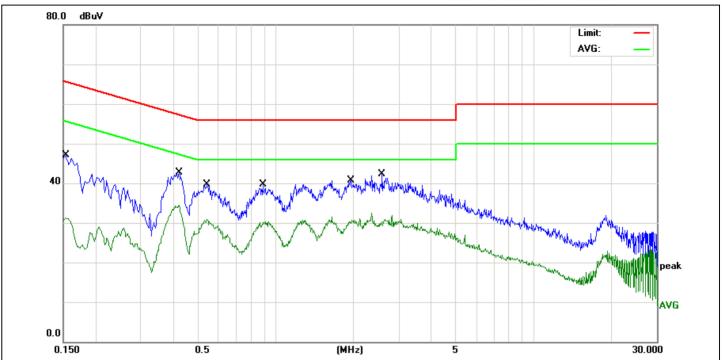
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	9.62	33.49	43.11	65.99	-22.88	QP	Р	
2	0.1500	9.62	21.19	30.81	55.99	-25.18	AVG	Р	
3	0.4140	9.59	29.25	38.84	57.57	-18.73	QP	Р	
4	0.4140	9.59	23.99	33.58	47.57	-13.99	AVG	Р	
5	0.8900	9.60	24.48	34.08	56.00	-21.92	QP	Р	
6	0.8900	9.60	19.14	28.74	46.00	-17.26	AVG	Р	
7	1.7100	9.61	24.79	34.40	56.00	-21.60	QP	Р	
8	1.7100	9.61	19.30	28.91	46.00	-17.09	AVG	Р	
9	2.5700	9.63	25.05	34.68	56.00	-21.32	QP	Р	
10	2.5700	9.63	19.28	28.91	46.00	-17.09	AVG	Р	
11	3.3380	9.64	24.04	33.68	56.00	-22.32	QP	Р	
12	3.3380	9.64	18.50	28.14	46.00	-17.86	AVG	Р	



Site: Conduction 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018

Test Time: 2013/10/22 09:50:04



Service No.: 113154149-RF

Test Standard: **NCC Class B Conduction**

Test item: **Conducted Emission** Ν Phase:

Applicant: Schneider Electric Temp.(°C)/Hum.(%): 24(°C) / 56 %

Product: Wireless device **Power Rating:** AC 110V/60Hz Model No.: wiser controller MKII Test Engineer: **Hugo Chang**

Test Mode: WIFI

No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1539	9.59	33.21	42.80	65.78	-22.98	QP	Р	
2	0.1539	9.59	21.56	31.15	55.78	-24.63	AVG	Р	
3	0.4220	9.57	29.26	38.83	57.41	-18.58	QP	Р	
4	0.4220	9.57	23.80	33.37	47.41	-14.04	AVG	Р	
5	0.5420	9.57	25.90	35.47	56.00	-20.53	QP	Р	
6	0.5420	9.57	20.73	30.30	46.00	-15.70	AVG	Р	
7	0.8900	9.57	25.29	34.86	56.00	-21.14	QP	Р	
8	0.8900	9.57	20.00	29.57	46.00	-16.43	AVG	Р	
9	1.9540	9.58	25.72	35.30	56.00	-20.70	QP	Р	
10	1.9540	9.58	20.19	29.77	46.00	-16.23	AVG	Р	
11	2.5900	9.59	25.73	35.32	56.00	-20.68	QP	Р	
12	2.5900	9.59	19.99	29.58	46.00	-16.42	AVG	Р	