

Test Report No.10044136 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 10044136AppendixD)

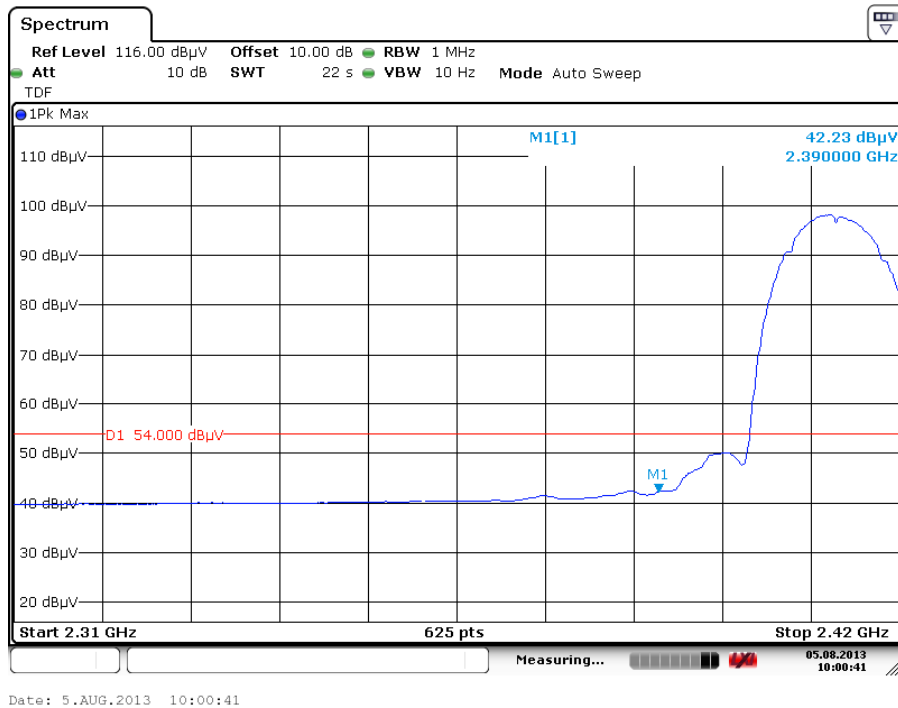
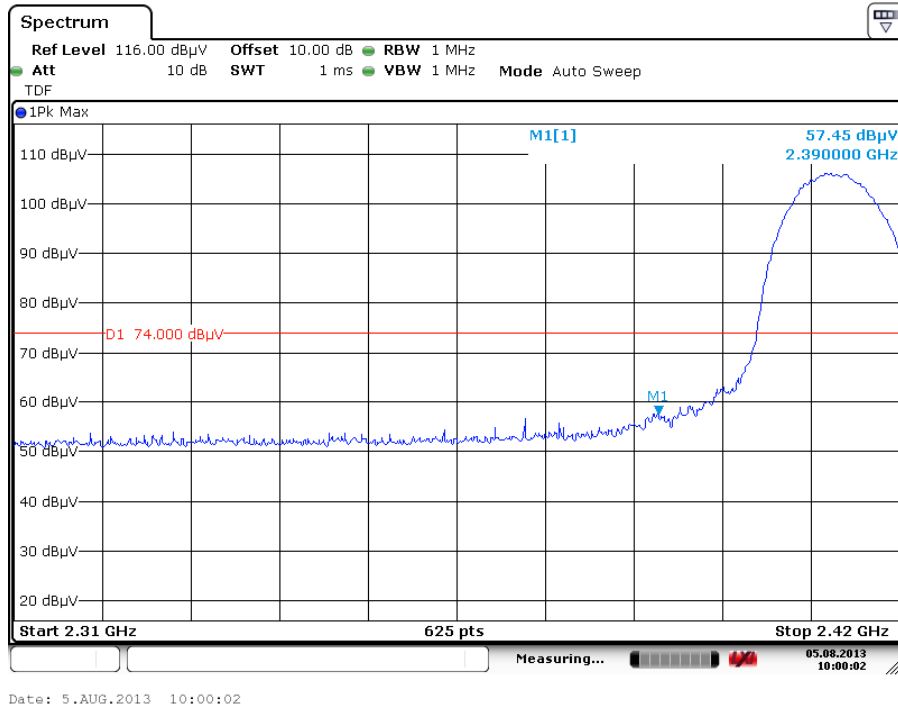
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Spurious Emissions, Band Edges, 2.35-2.5G

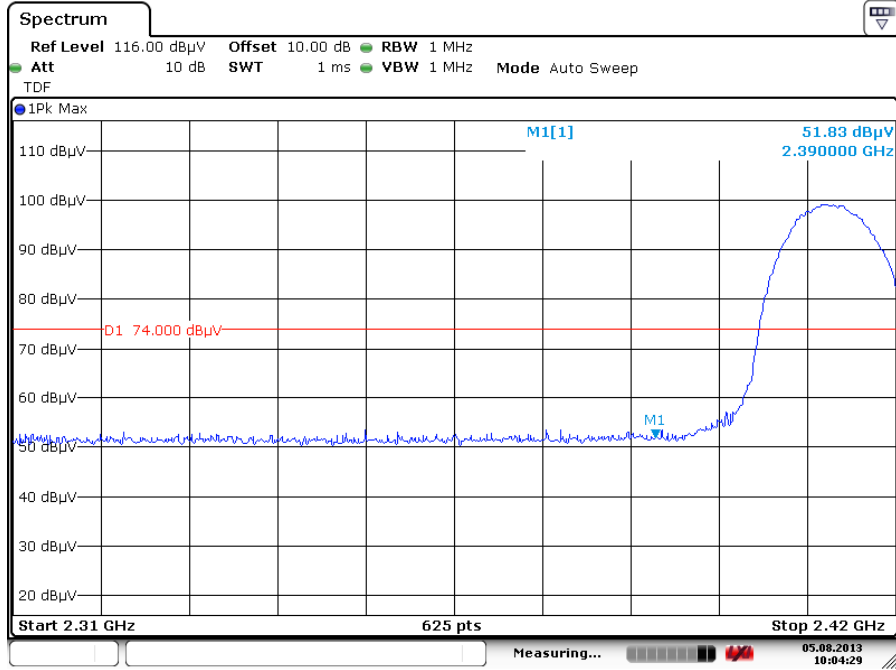
Radiated Bandedge (802.11b)

Low Channel (Hor)

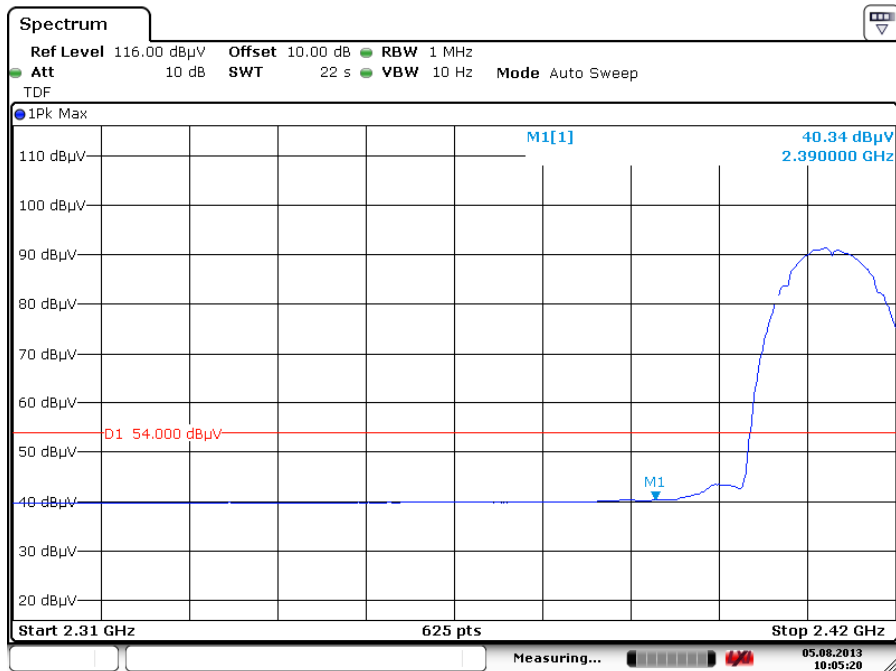


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



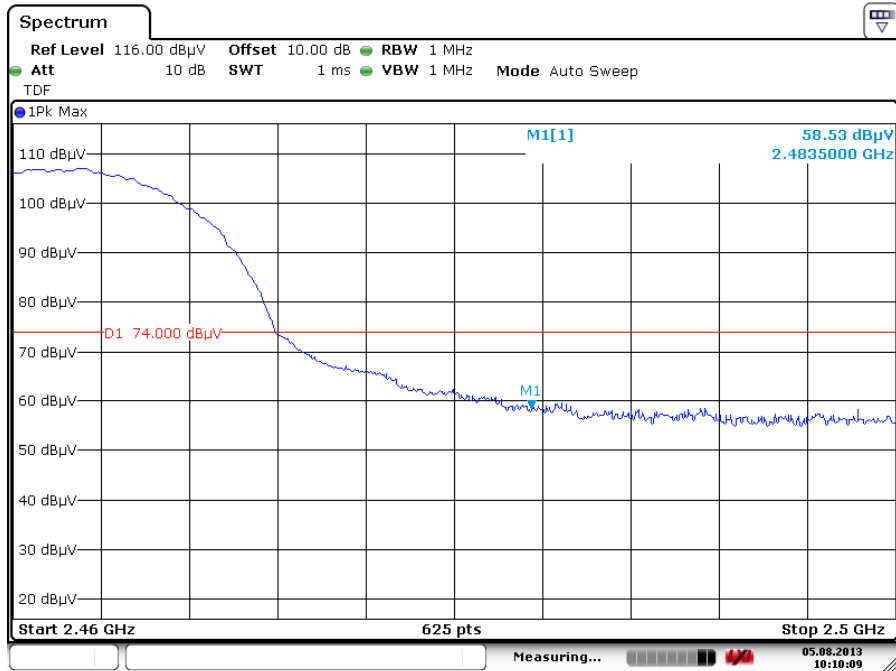
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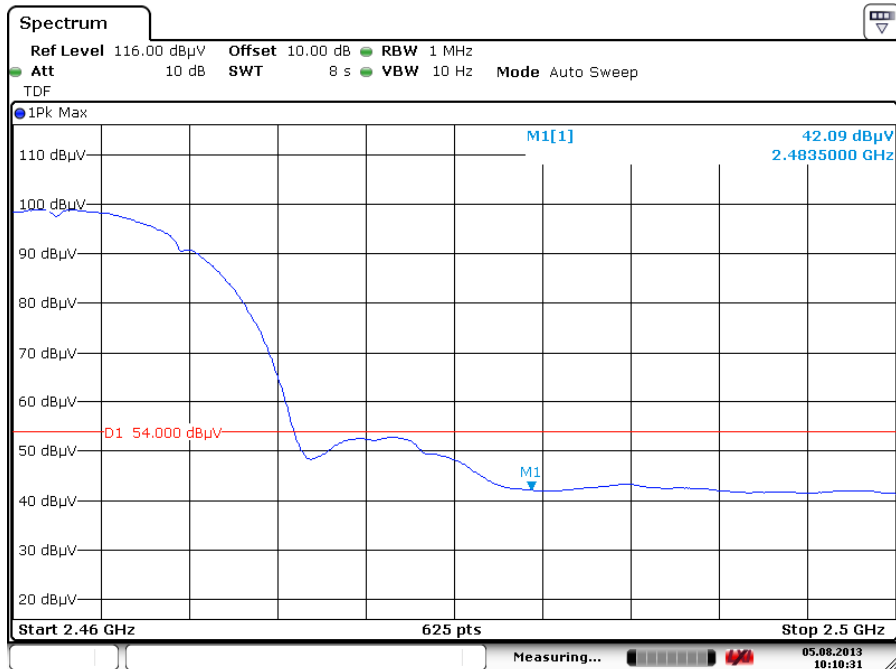
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Hor) 2462



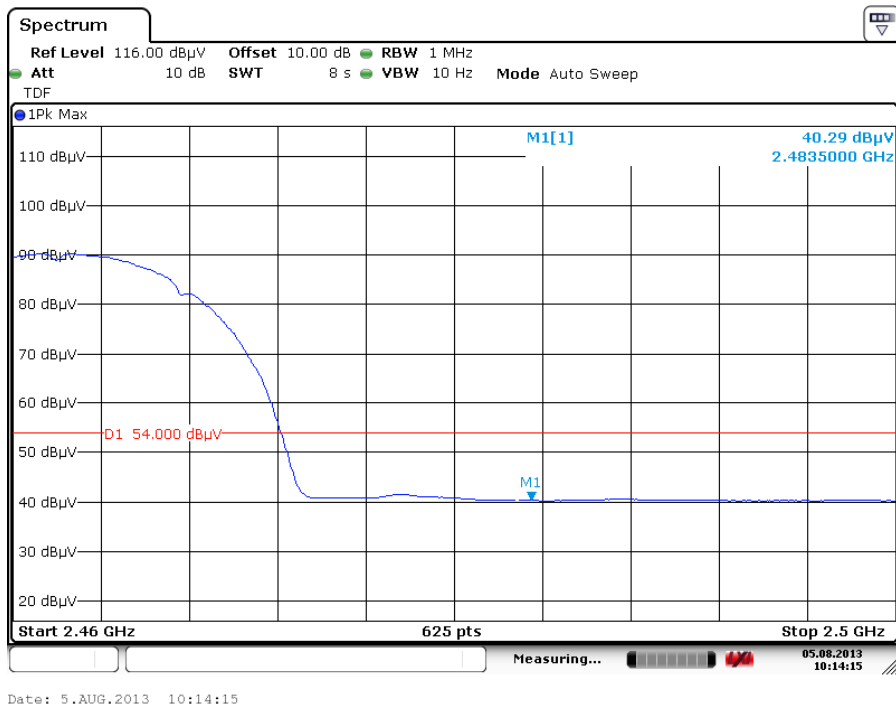
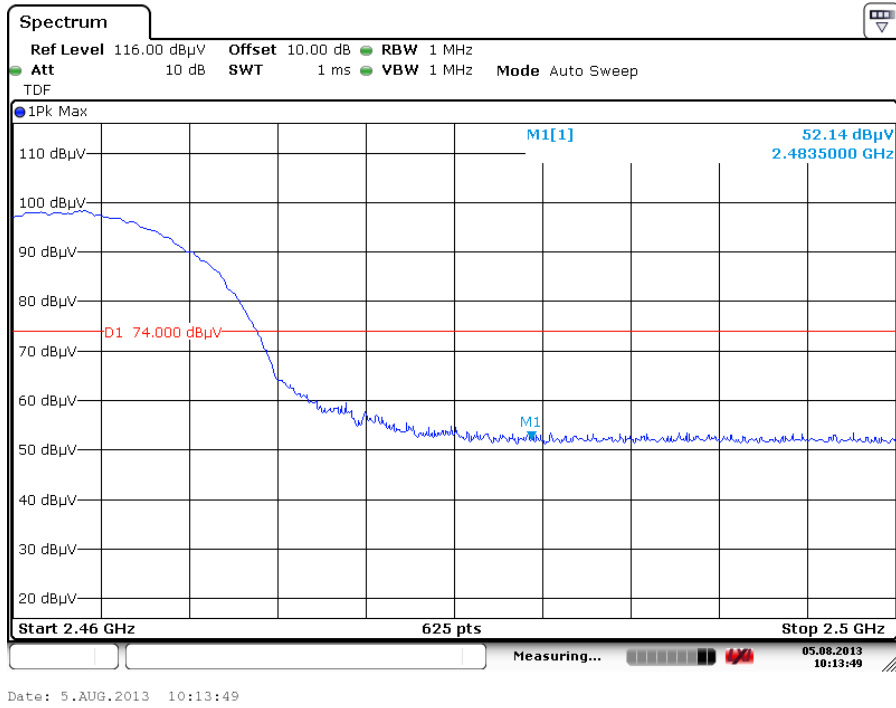
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Spurious Emissions, Band Edge, 2.35-2.5G

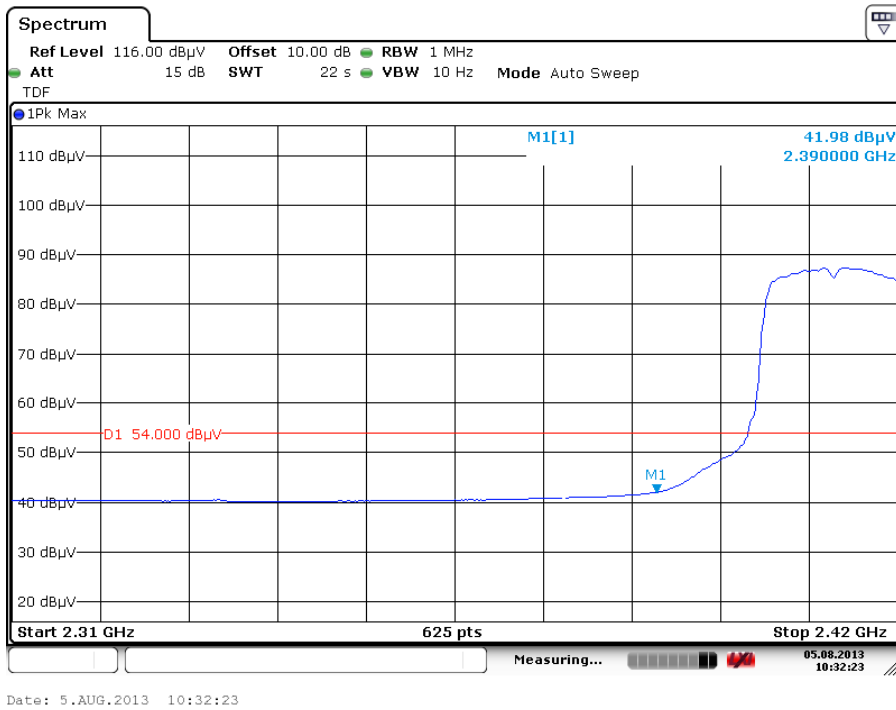
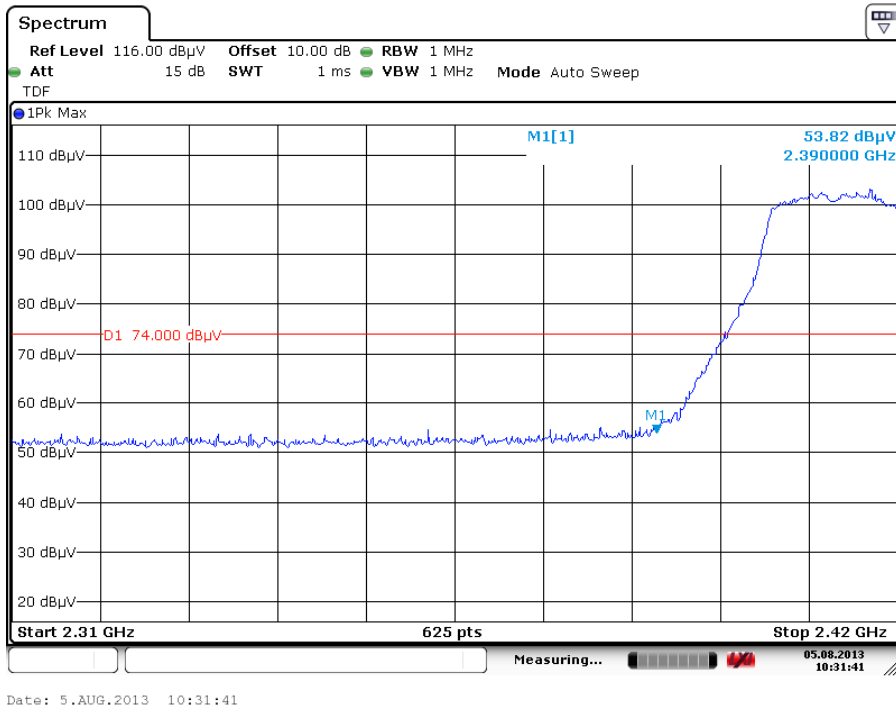
High Channel (Ver) 2462



Spurious Emissions, Band Edge, 2.35-2.5G

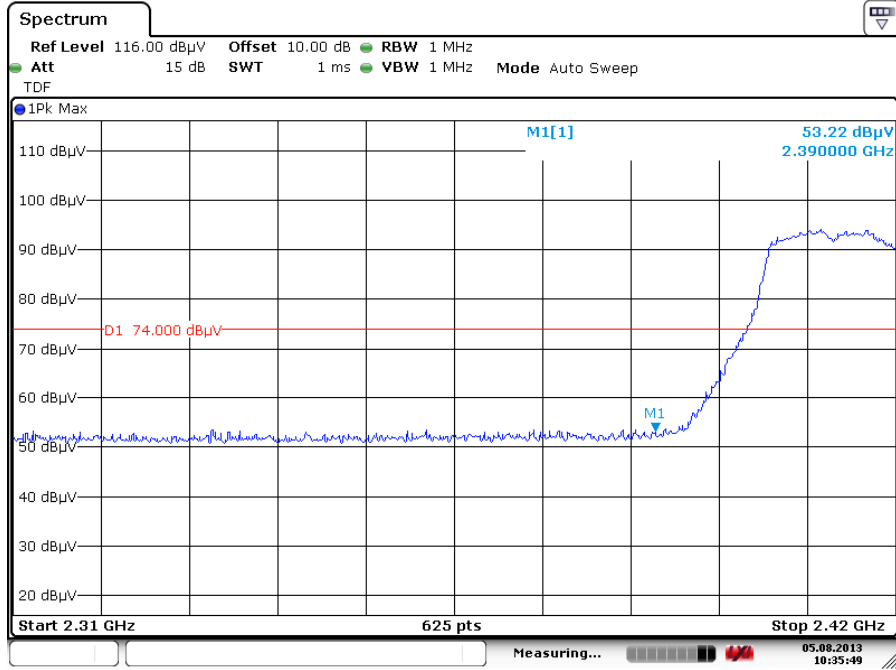
Radiated Bandedge (802.11g)

Low Channel (Hor)

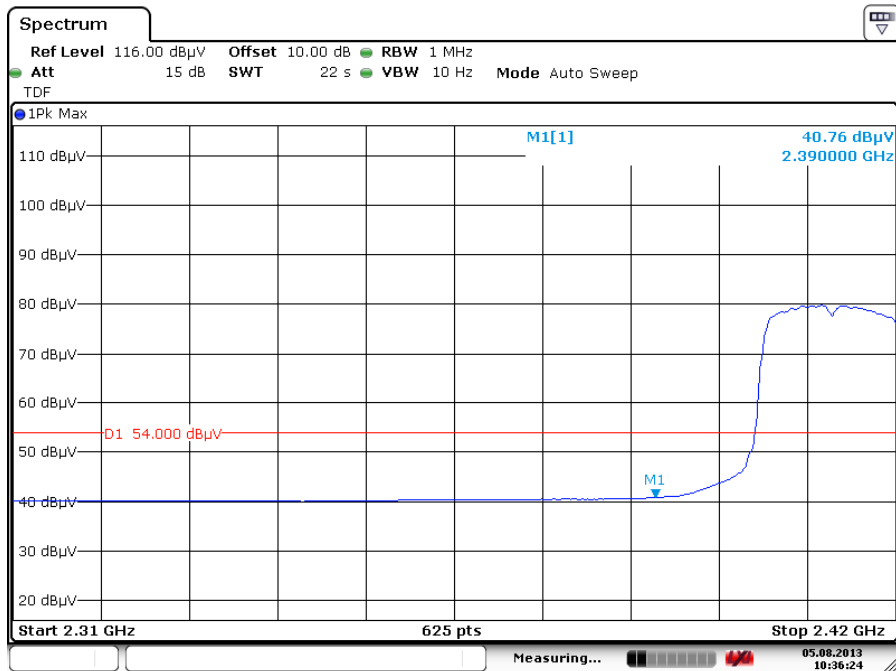


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



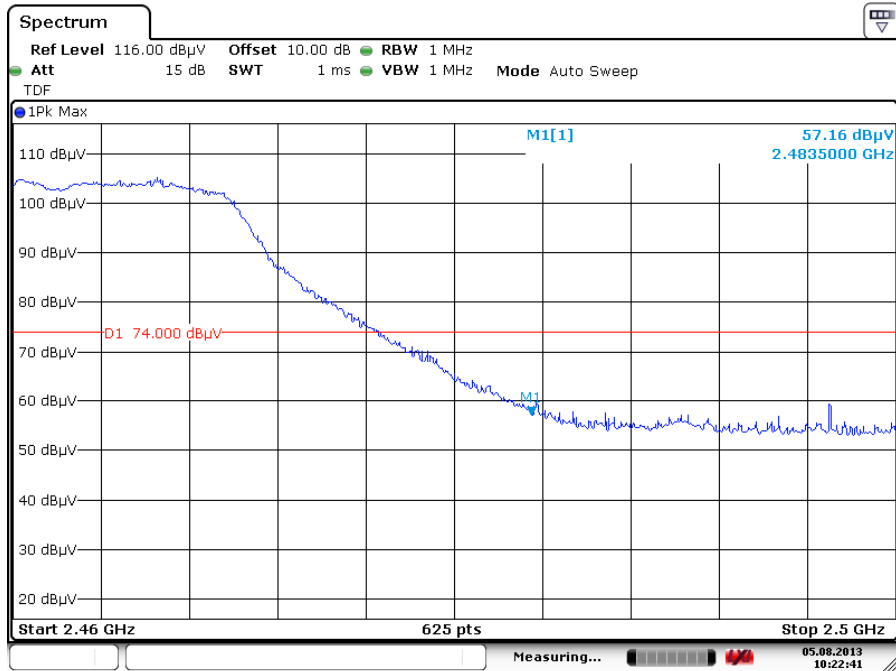
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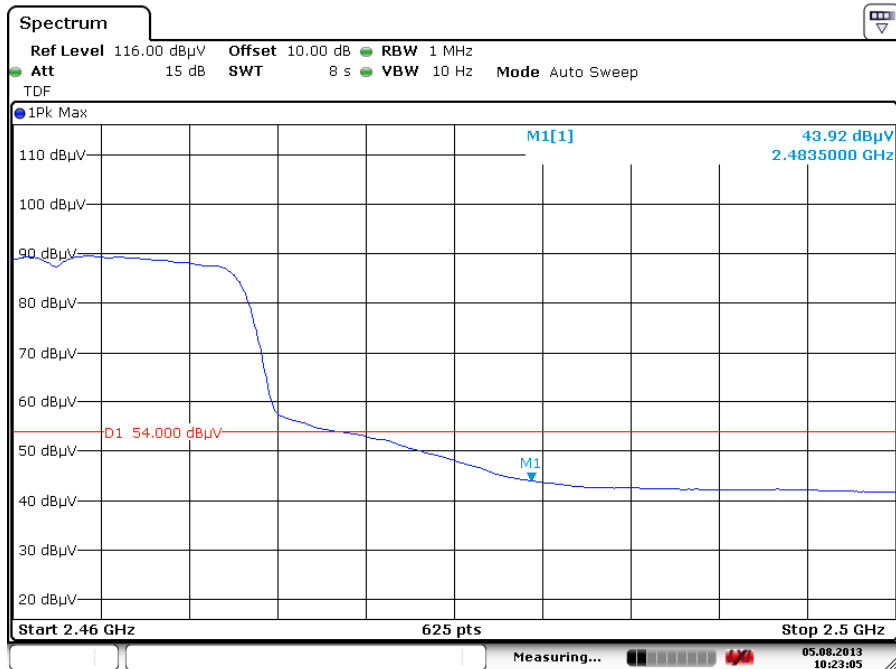
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Hor) 2462



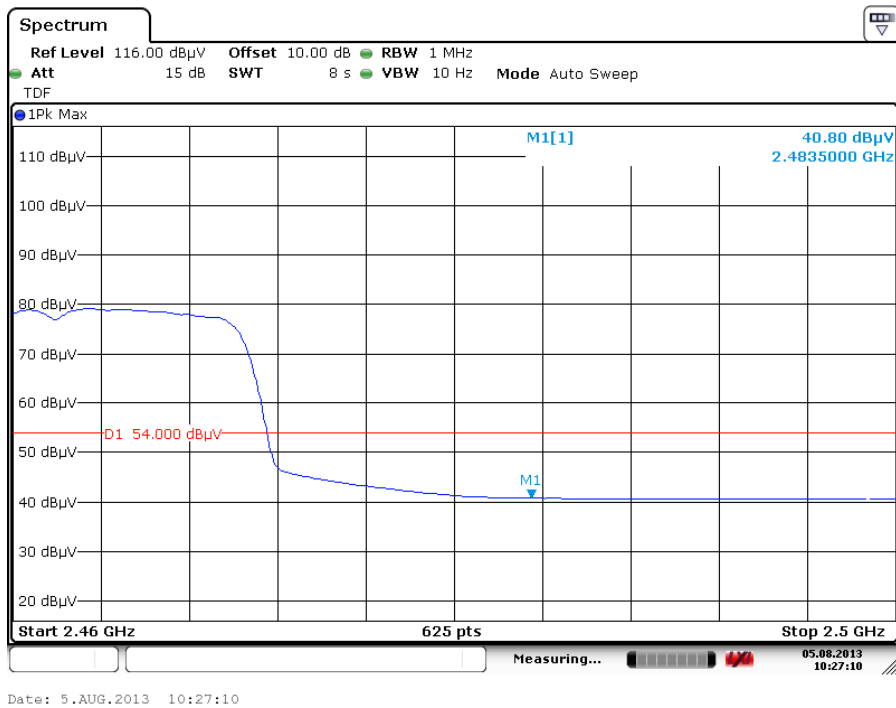
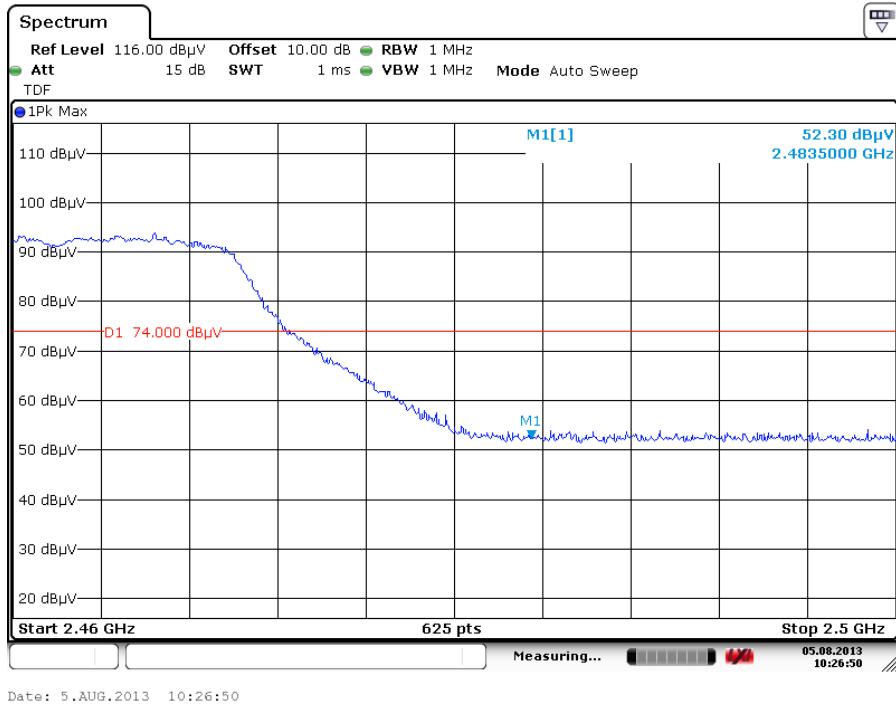
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver) 2462

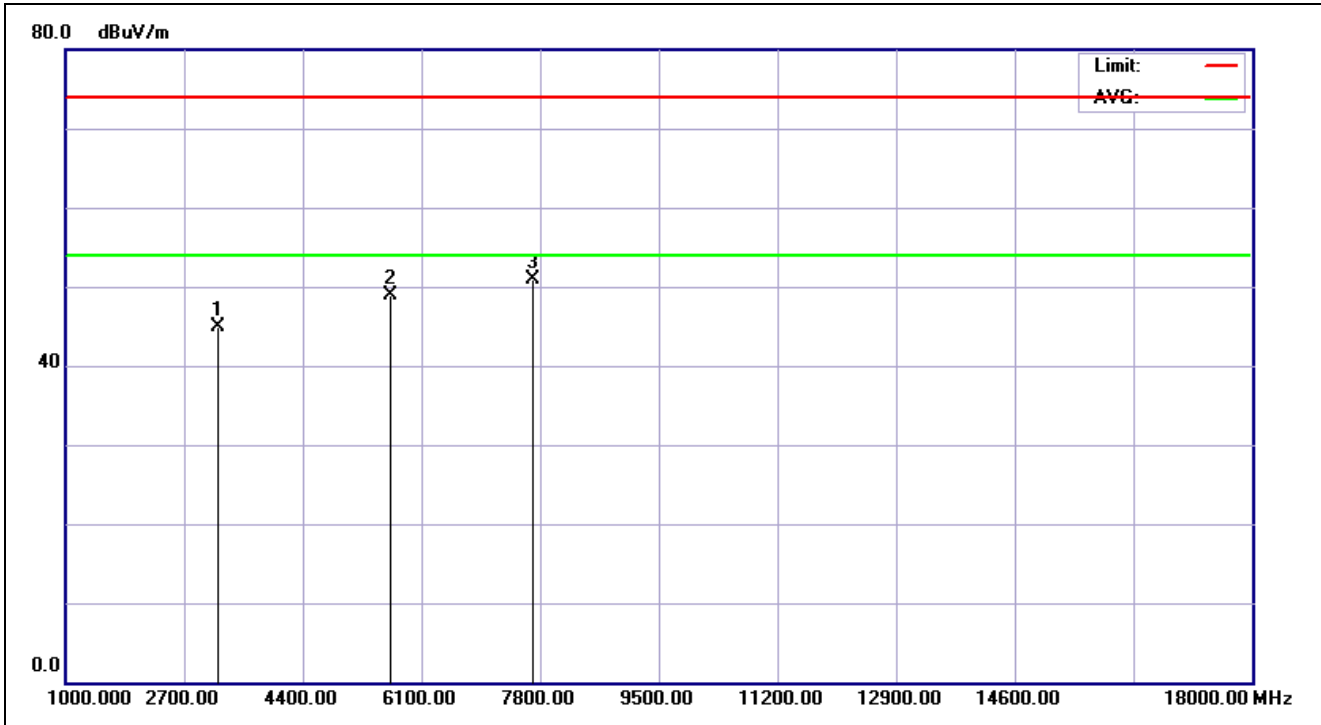


Spurious Emissions, Band Edge, 2.35-2.5G

Spurious Emissions, TX Mode, 1-18G

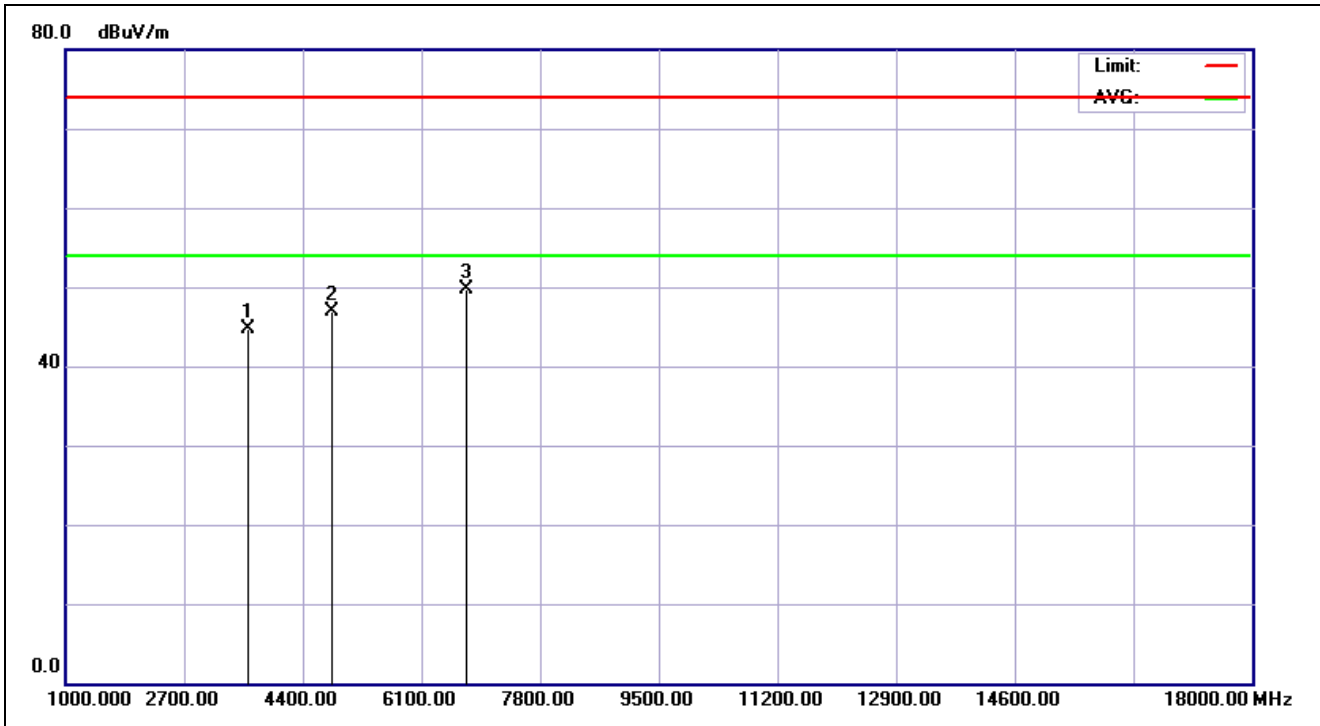


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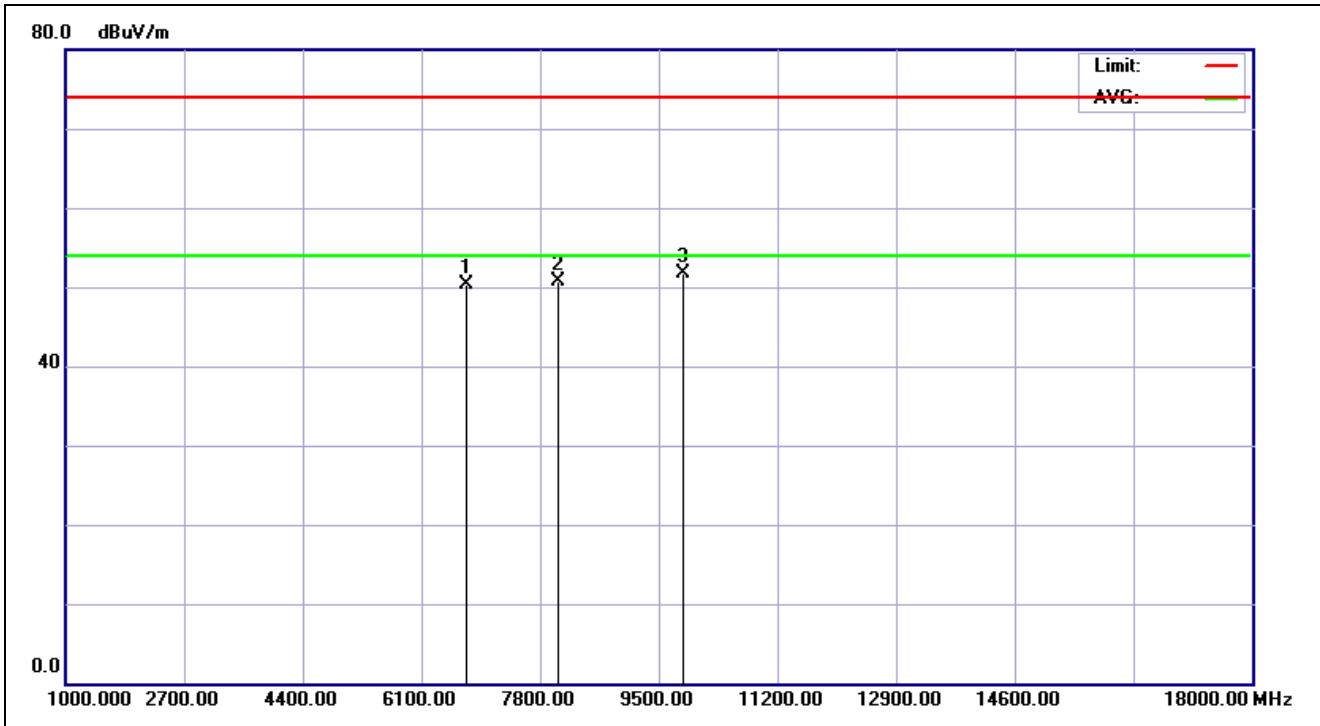
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Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 10:49:53
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3179.487	-6.30	51.14	44.84	74.00	-29.16	peak	100	2	
2	5658.654	1.32	47.53	48.85	74.00	-25.15	peak	100	111	
3	7701.923	6.15	44.82	50.97	74.00	-23.03	peak	100	106	



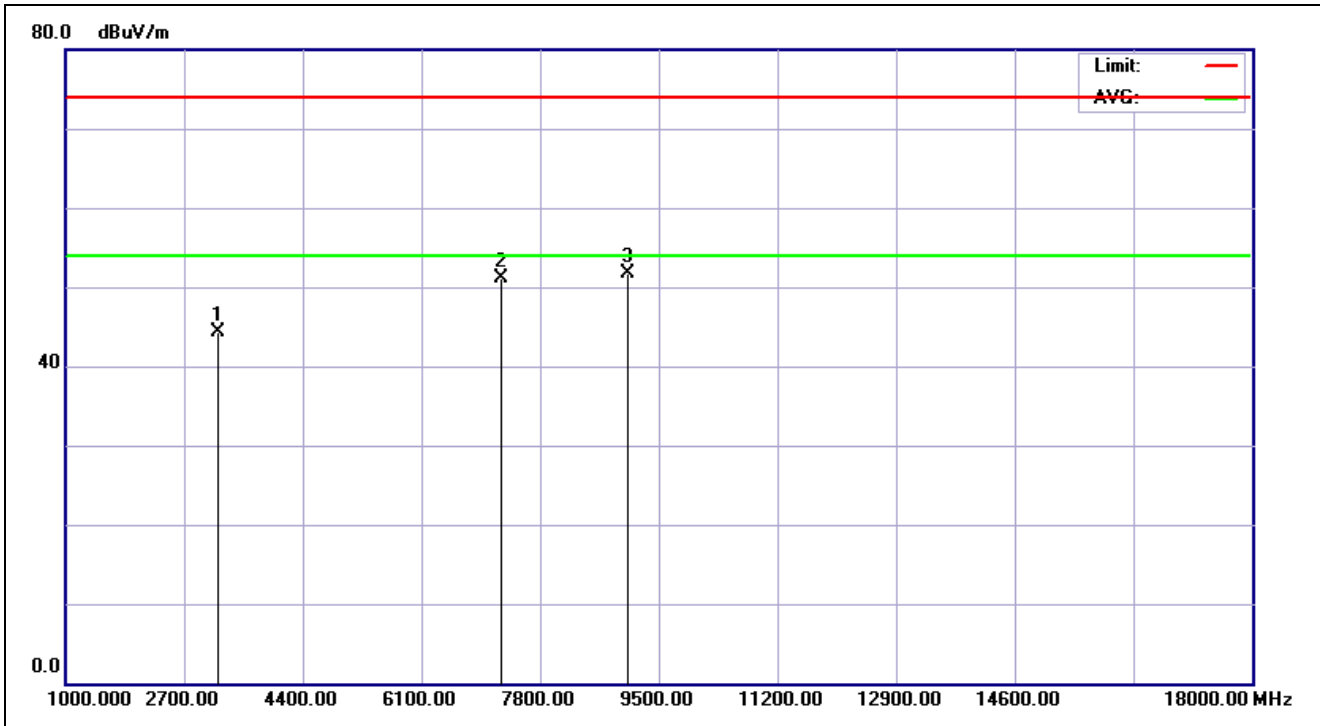
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Test item:	Radiation Emission	Test Time:	2013/8/5 10:50:55
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3615.385	-5.77	50.43	44.66	74.00	-29.34	peak	100	171	
2	4814.103	-2.72	49.58	46.86	74.00	-27.14	peak	100	77	
3	6748.397	5.14	44.63	49.77	74.00	-24.23	peak	100	67	



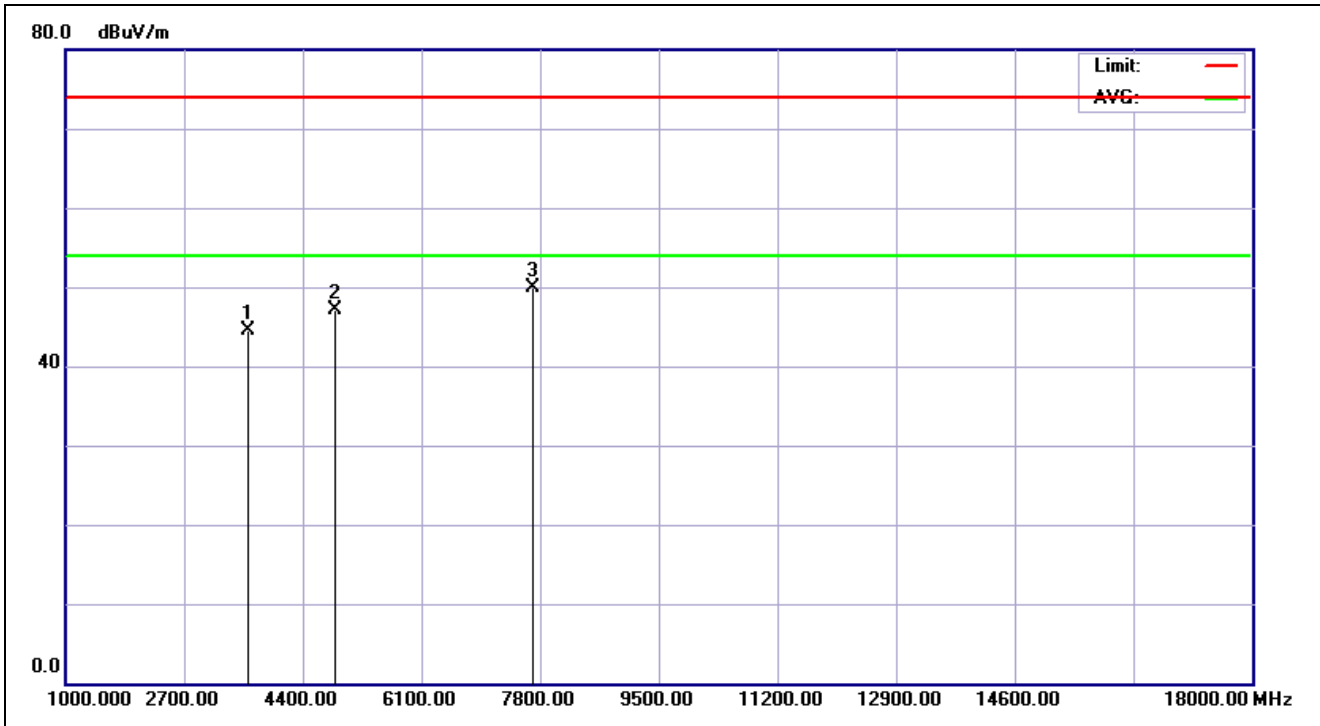
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Test item:	Radiation Emission	Test Time:	2013/8/5 11:09:35
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	6748.397	5.14	45.16	50.30	74.00	-23.70	peak	100	165	
2	8056.090	6.04	44.74	50.78	74.00	-23.22	peak	100	194	
3	9854.167	5.77	45.85	51.62	74.00	-22.38	peak	100	360	



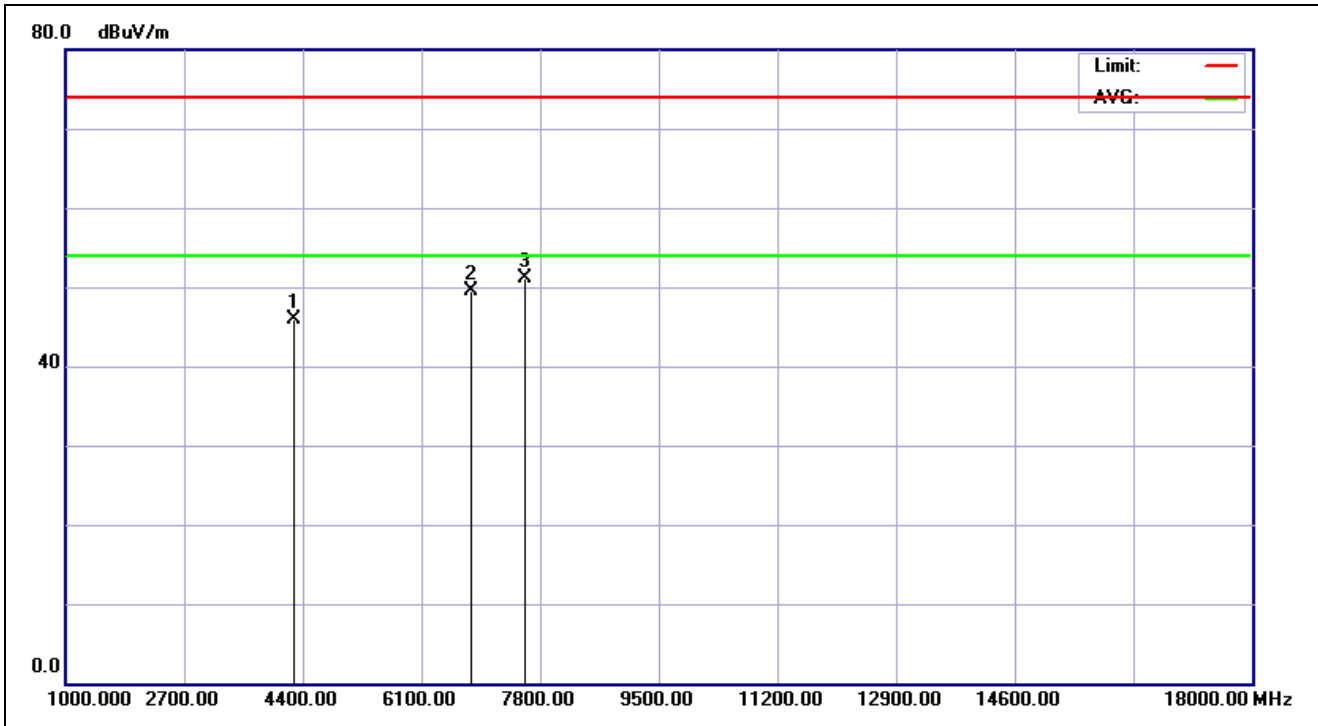
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Test item:	Radiation Emission	Test Time:	2013/8/5 11:10:37
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3179.487	-6.29	50.56	44.27	74.00	-29.73	peak	100	0	
2	7238.782	5.50	45.57	51.07	74.00	-22.93	peak	100	292	
3	9064.103	6.86	44.86	51.72	74.00	-22.28	peak	100	22	



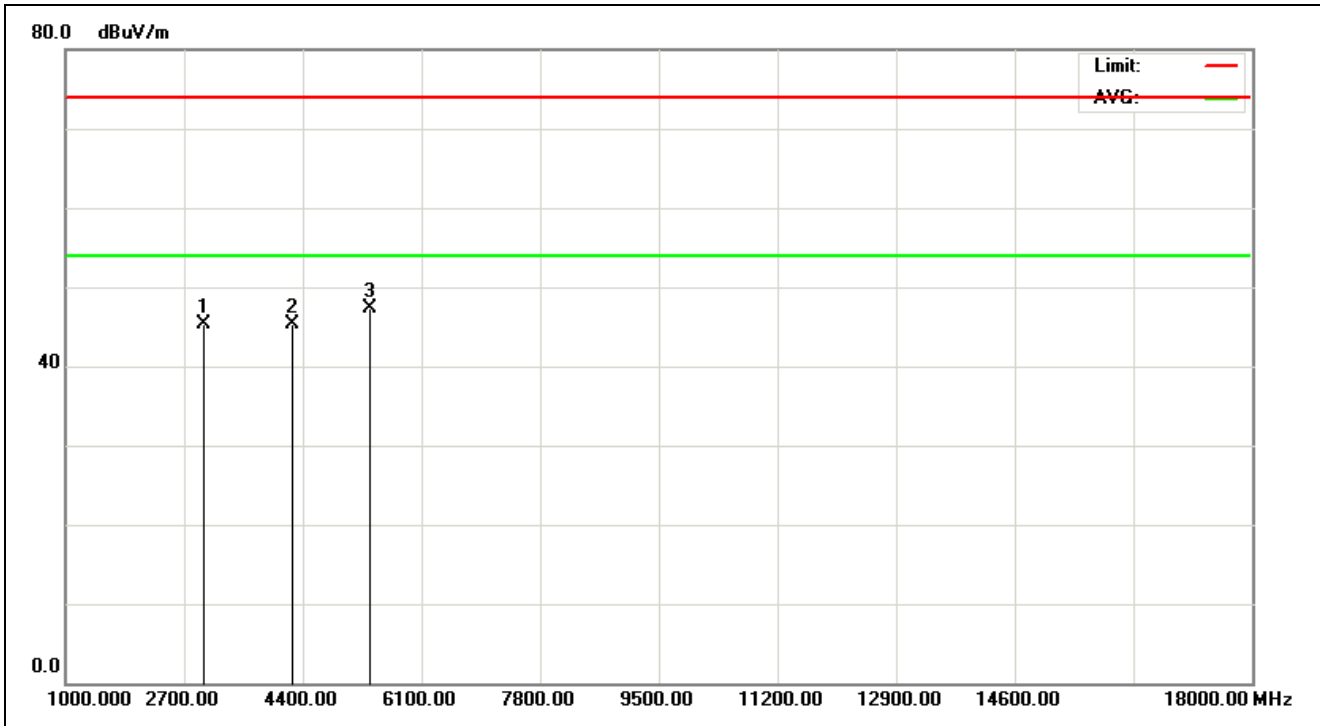
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Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3615.385	-5.77	50.18	44.41	74.00	-29.59	peak	100	360	
2	4868.590	-2.57	49.60	47.03	74.00	-26.97	peak	100	74	
3	7701.923	6.15	43.71	49.86	74.00	-24.14	peak	100	127	



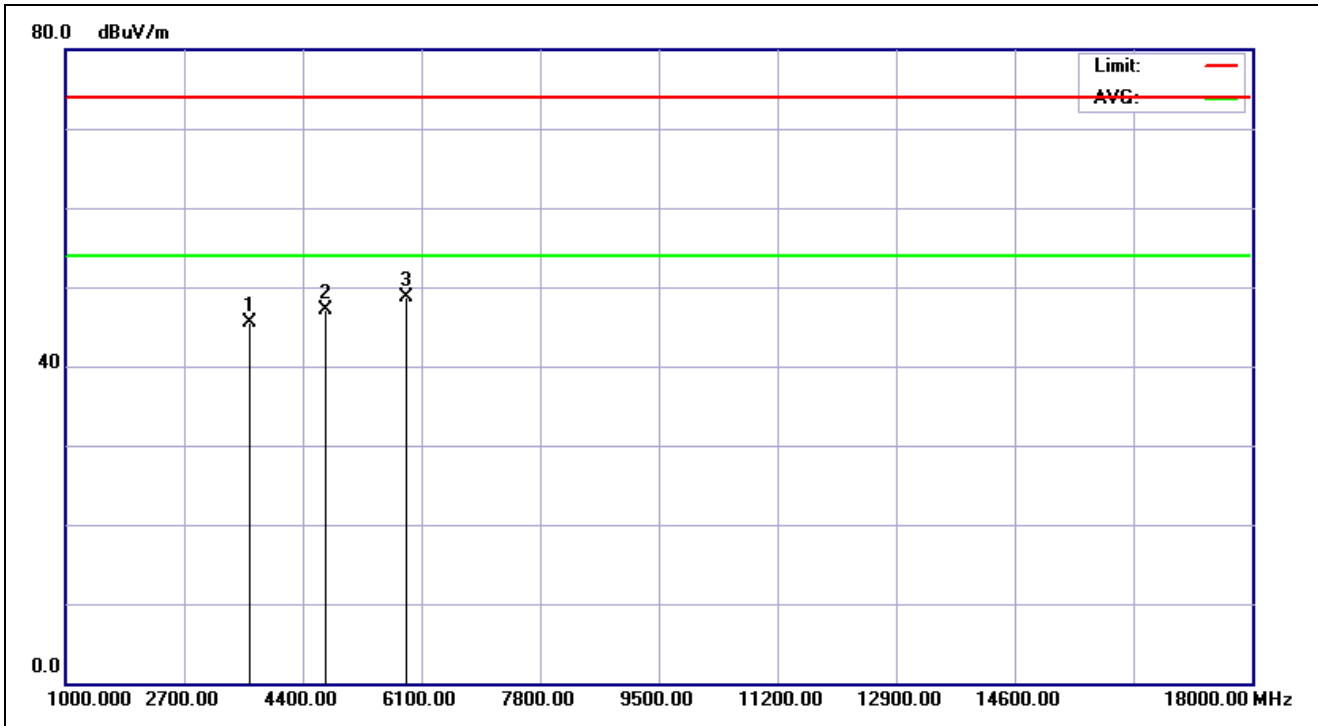
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Test item:	Radiation Emission	Test Time:	2013/8/5 10:56:29
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4269.231	-4.44	50.44	46.00	74.00	-28.00	peak	100	281	
2	6802.885	5.07	44.50	49.57	74.00	-24.43	peak	100	233	
3	7592.949	6.20	44.88	51.08	74.00	-22.92	peak	100	278	



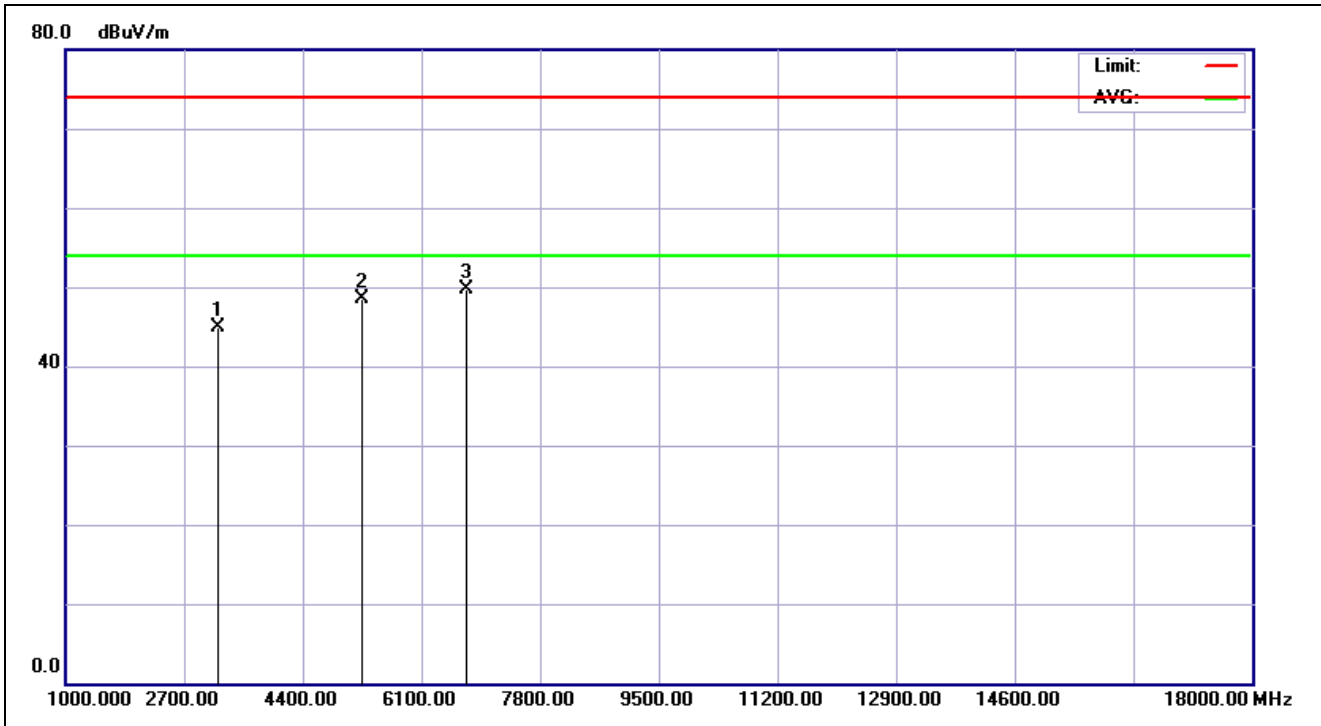
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Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 10:42:17
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2988.782	-6.55	51.84	45.29	74.00	-28.71	peak	100	312	
2	4241.987	-4.54	49.87	45.33	74.00	-28.67	peak	100	242	
3	5358.974	-0.46	47.78	47.32	74.00	-26.68	peak	100	86	



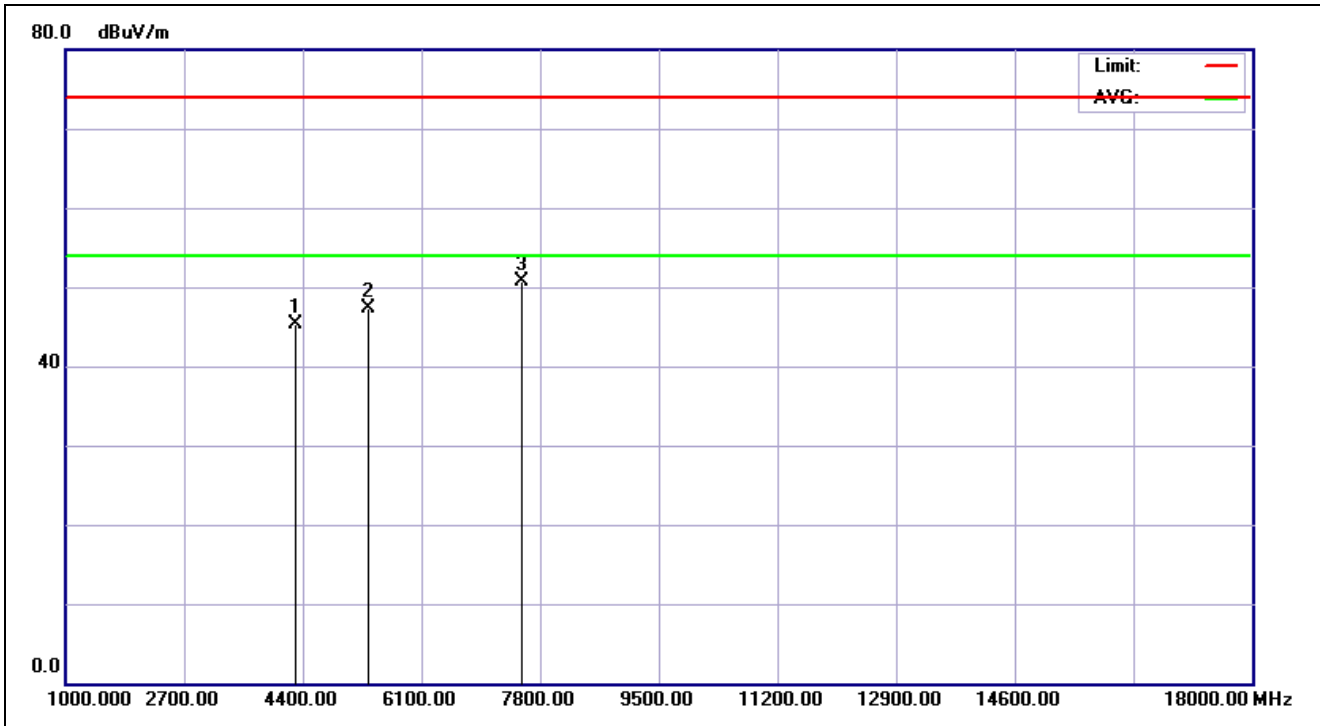
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Test item:	Radiation Emission	Test Time:	2013/8/5 10:43:19
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3642.628	-5.76	51.36	45.60	74.00	-28.40	peak	100	62	
2	4732.372	-2.93	49.98	47.05	74.00	-26.95	peak	100	51	
3	5876.603	2.83	45.87	48.70	74.00	-25.30	peak	100	308	



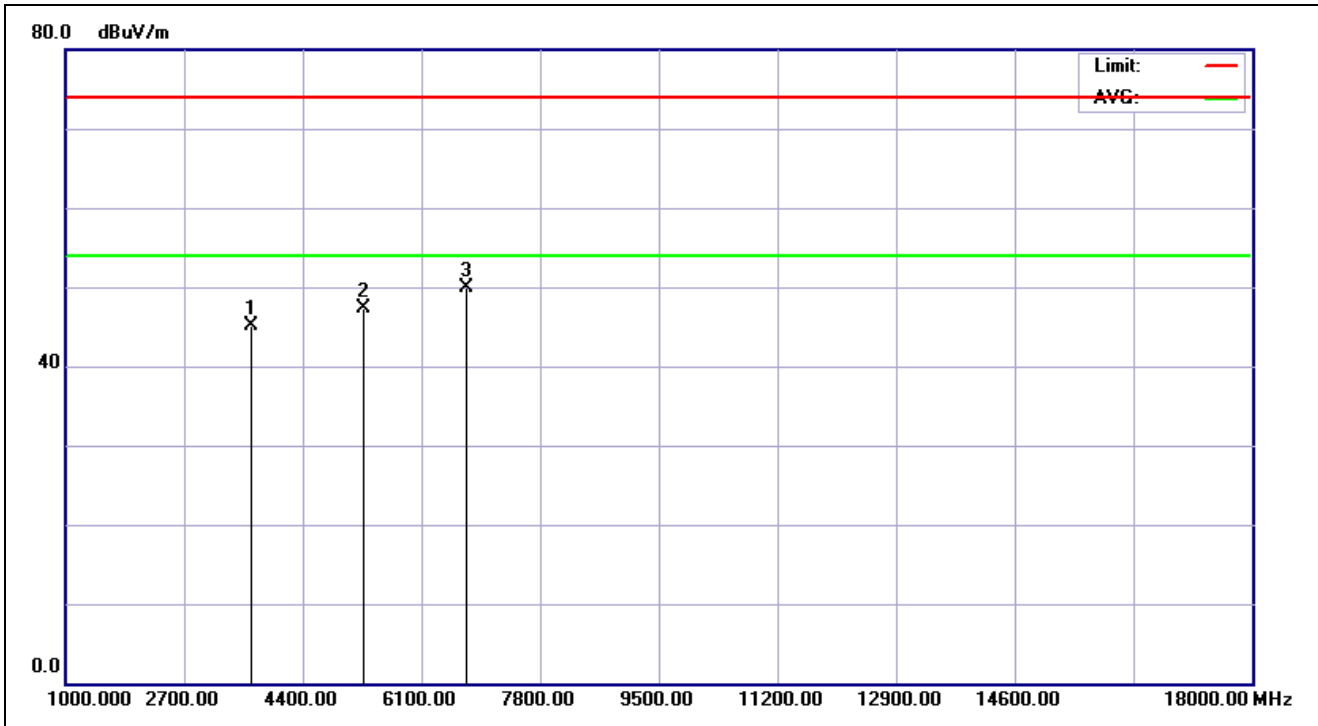
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Test item:	Radiation Emission	Test Time:	2013/8/5 11:12:05
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3179.487	-6.30	51.23	44.93	74.00	-29.07	peak	100	9	
2	5250.000	-1.01	49.48	48.47	74.00	-25.53	peak	100	108	
3	6748.397	5.14	44.66	49.80	74.00	-24.20	peak	100	159	



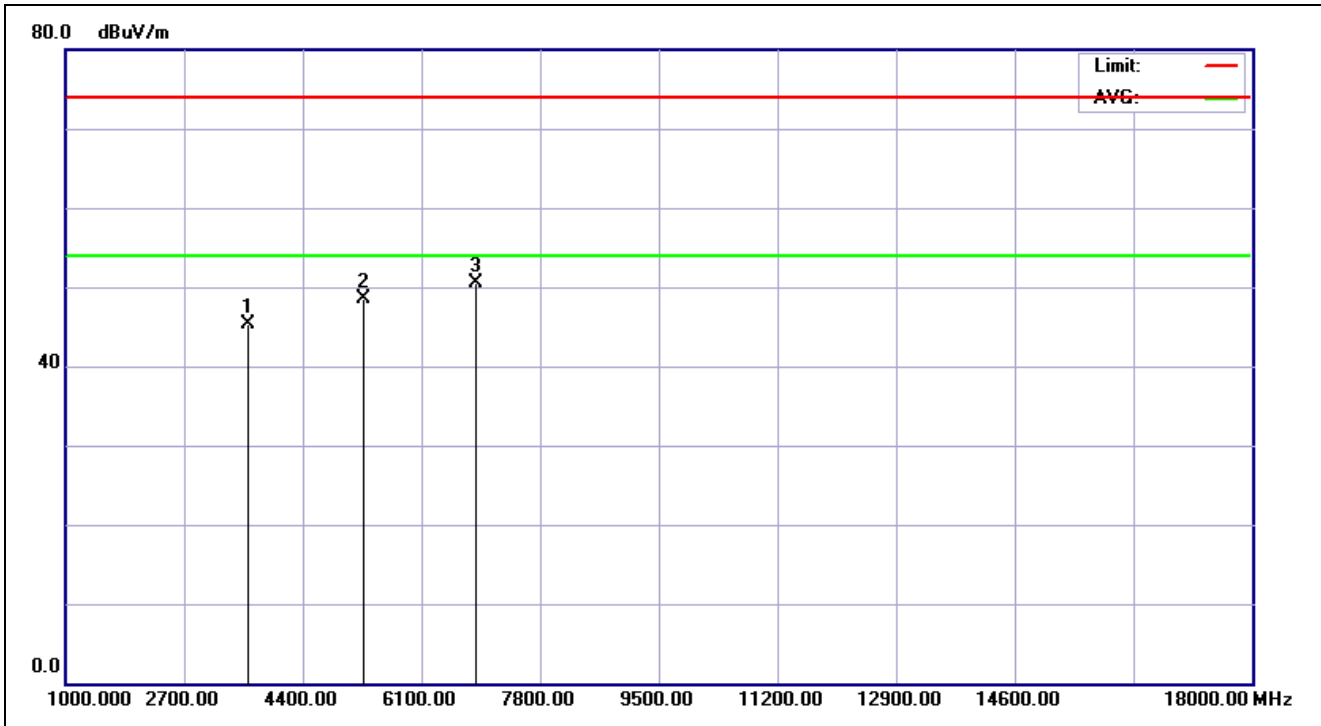
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Test item:	Radiation Emission	Test Time:	2013/8/5 11:13:07
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4296.474	-4.34	49.65	45.31	74.00	-28.69	peak	100	88	
2	5331.731	-0.60	47.96	47.36	74.00	-26.64	peak	100	49	
3	7538.462	6.23	44.39	50.62	74.00	-23.38	peak	100	27	



Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 10:44:48
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3669.872	-5.74	50.89	45.15	74.00	-28.85	peak	100	252	
2	5277.243	-0.86	48.13	47.27	74.00	-26.73	peak	100	100	
3	6748.397	5.14	44.83	49.97	74.00	-24.03	peak	100	263	



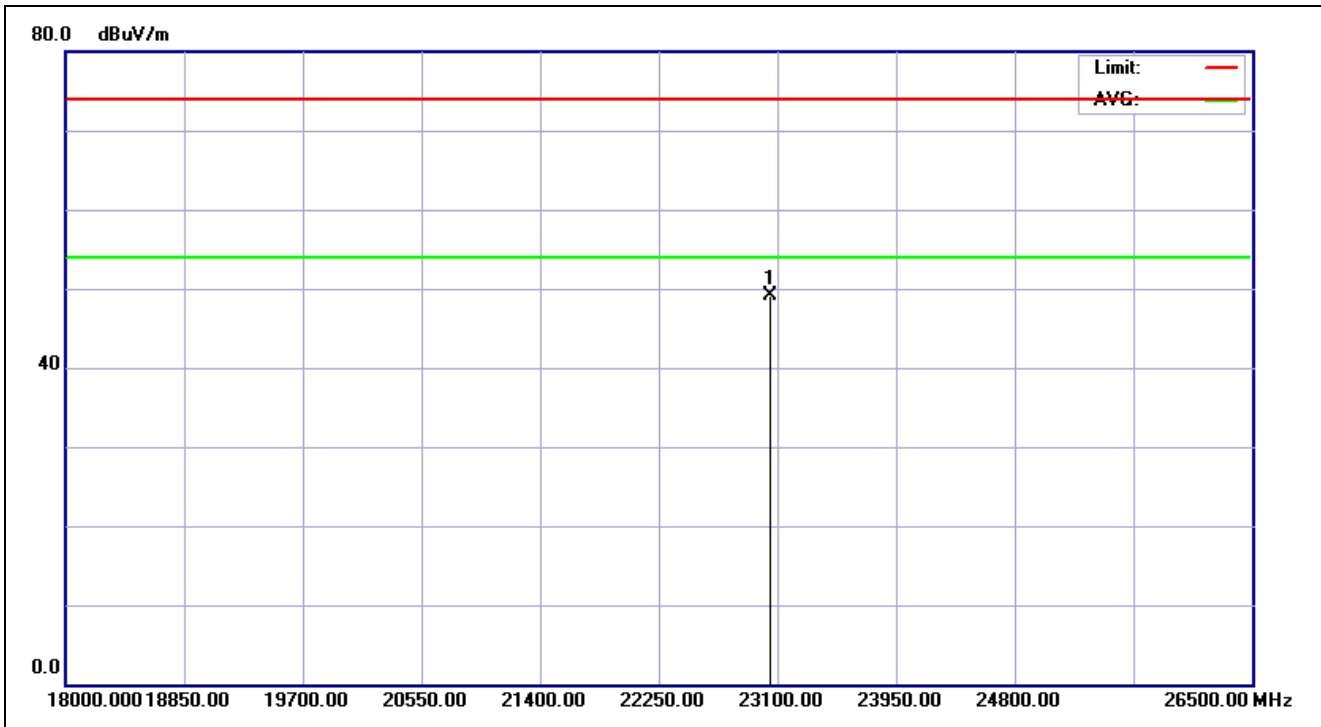
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Test item:	Radiation Emission	Test Time:	2013/8/5 10:45:50
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3615.385	-5.77	51.16	45.39	74.00	-28.61	peak	100	54	
2	5277.243	-0.86	49.41	48.55	74.00	-25.45	peak	100	306	
3	6884.615	4.98	45.52	50.50	74.00	-23.50	peak	100	303	

Spurious Emissions, TX Mode, 18-26G

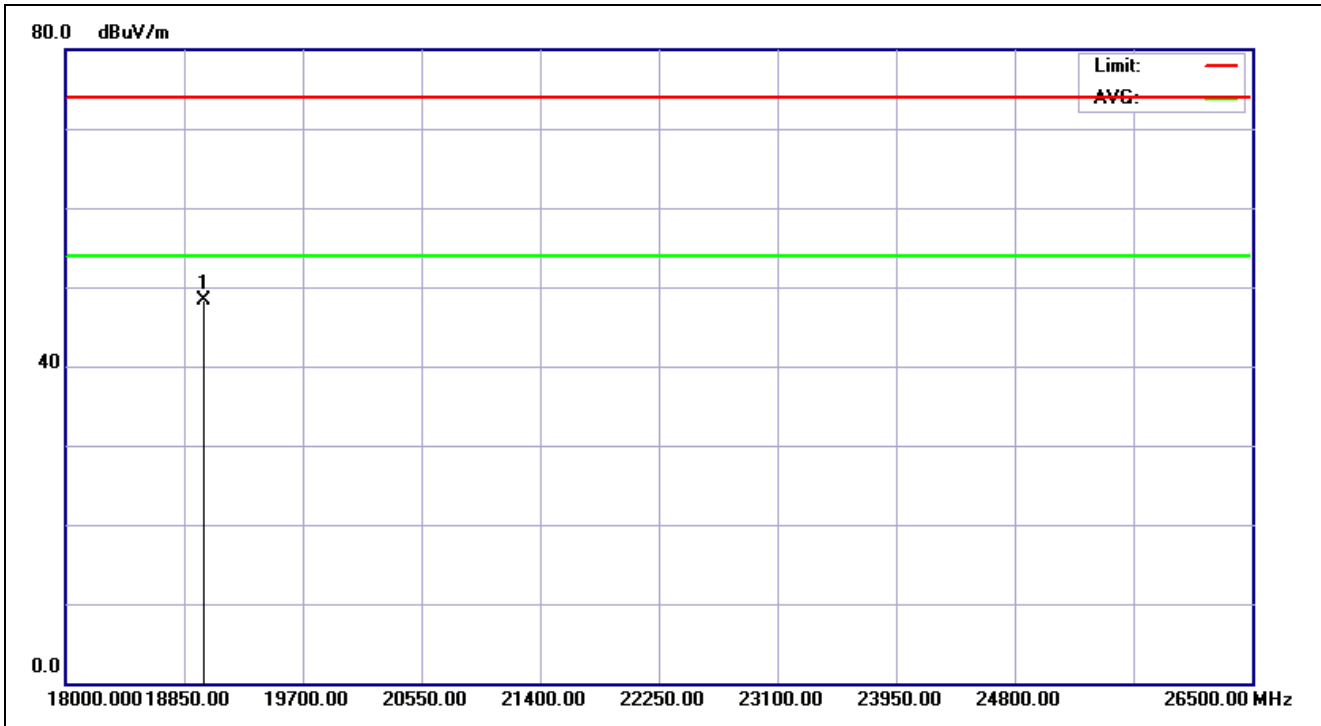


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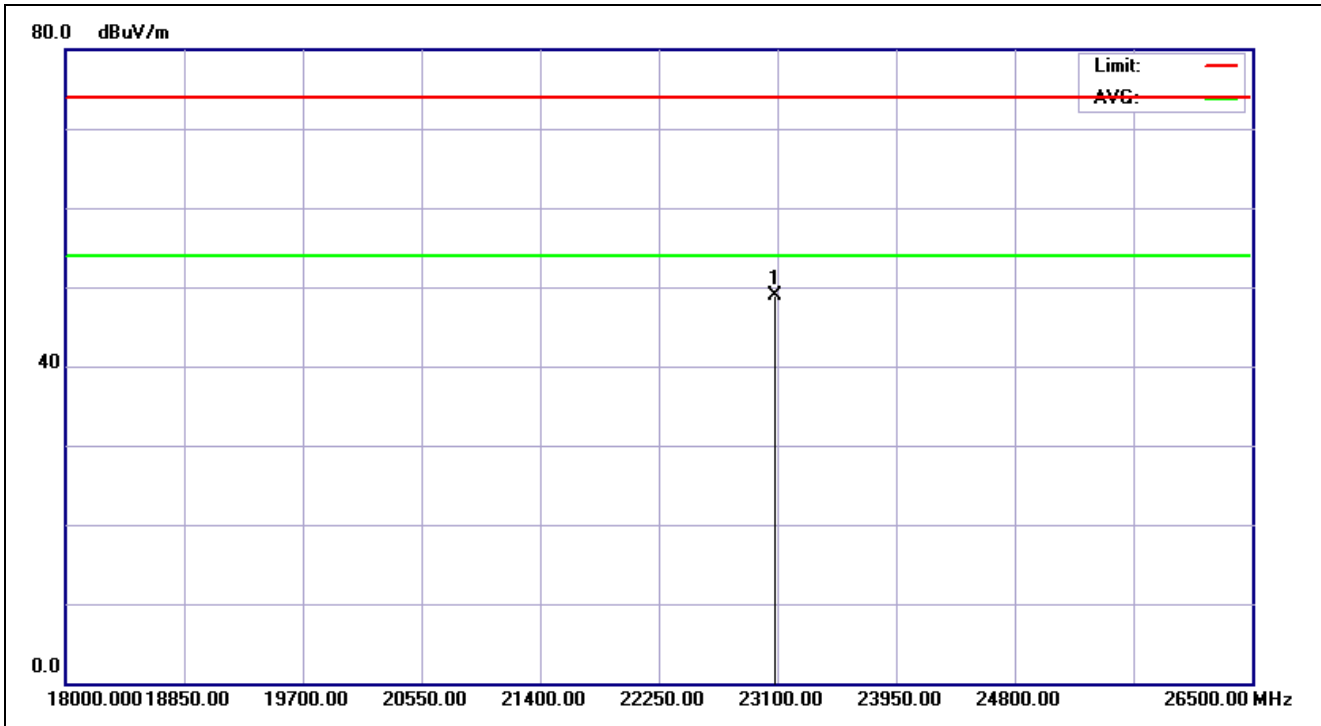
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Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:39:42
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23053.686	30.27	18.93	49.20	74.00	-24.80	peak			



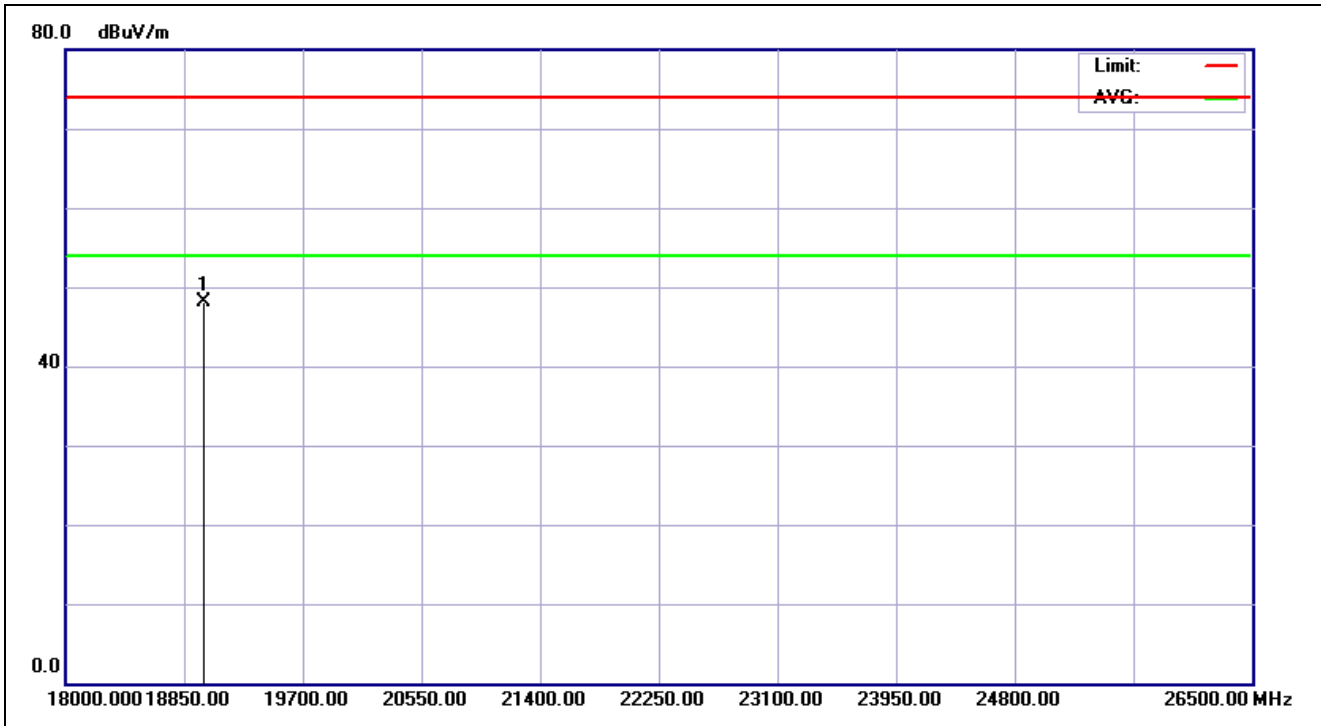
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Test item:	Radiation Emission	Test Time:	2013/8/5 11:39:52
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18994.391	29.96	18.26	48.22	74.00	-25.78	peak			



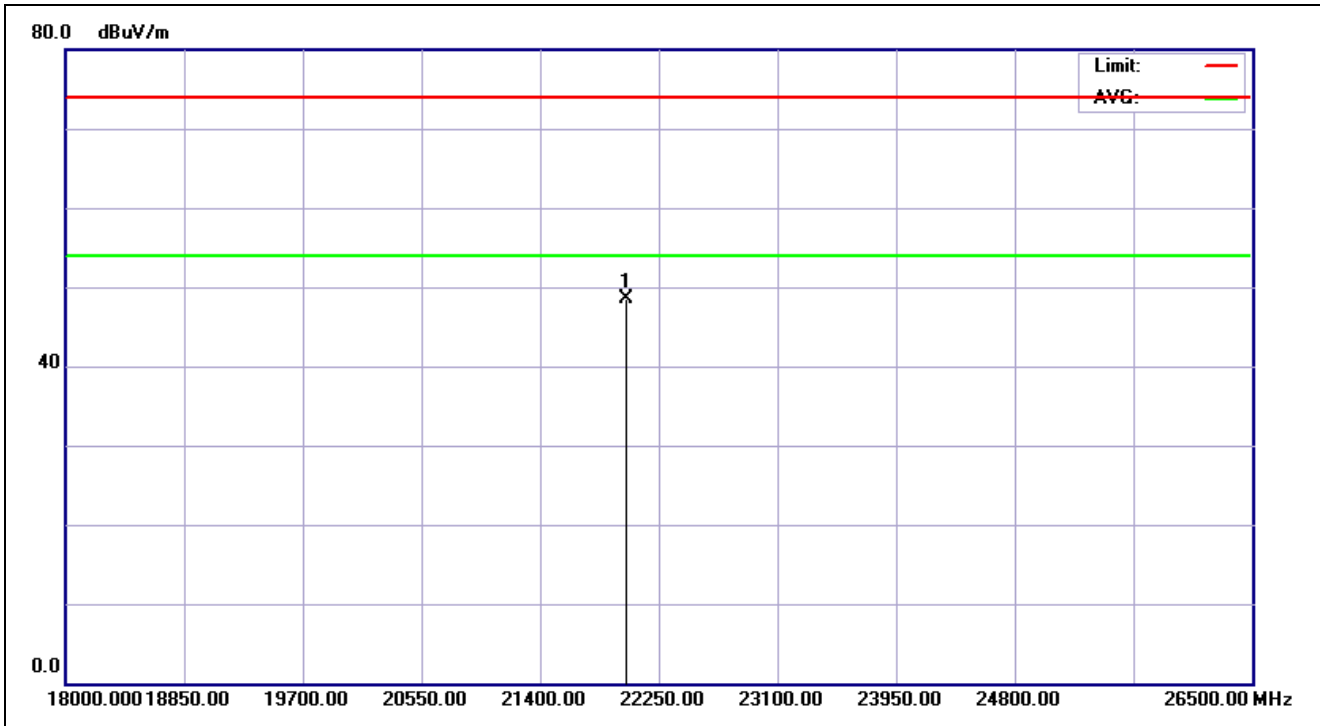
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Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:40:18
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23080.929	30.25	18.63	48.88	74.00	-25.12	peak			



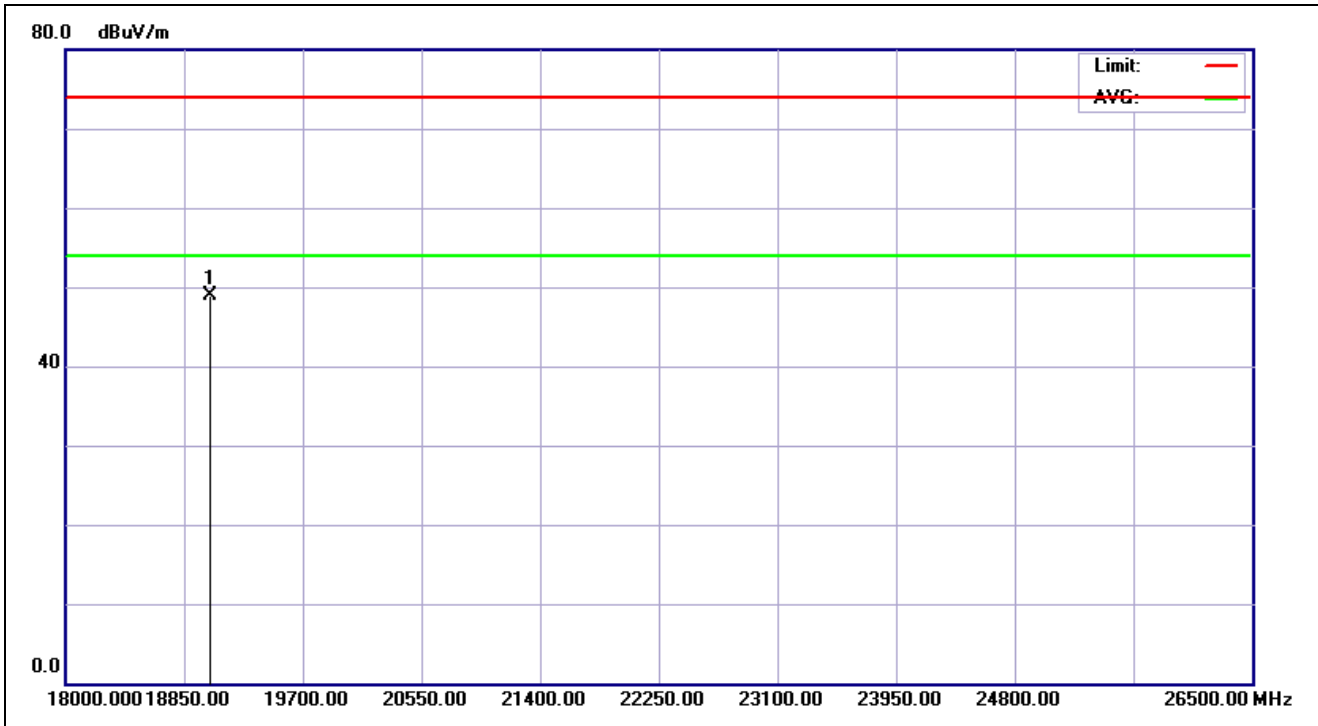
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:40:29
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18994.391	29.96	18.06	48.02	74.00	-25.98	peak			



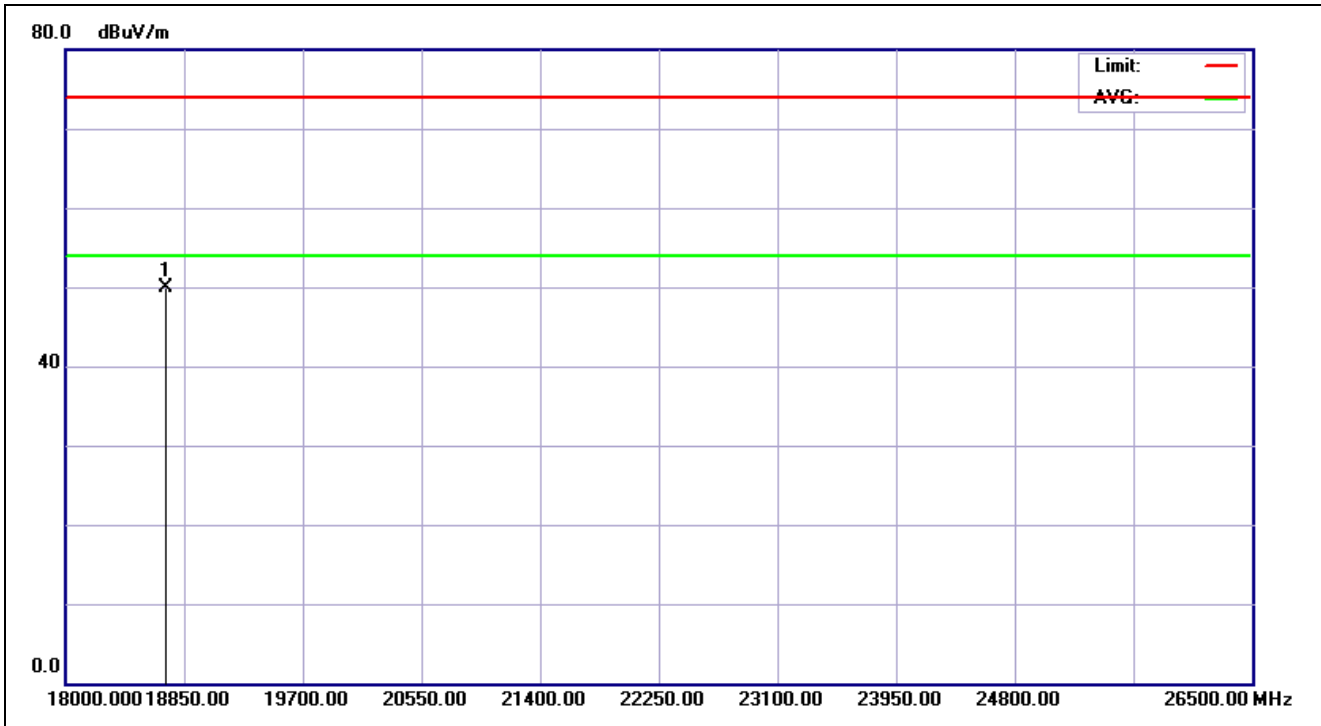
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:40:44
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22018.429	29.39	19.18	48.57	74.00	-25.43	peak			



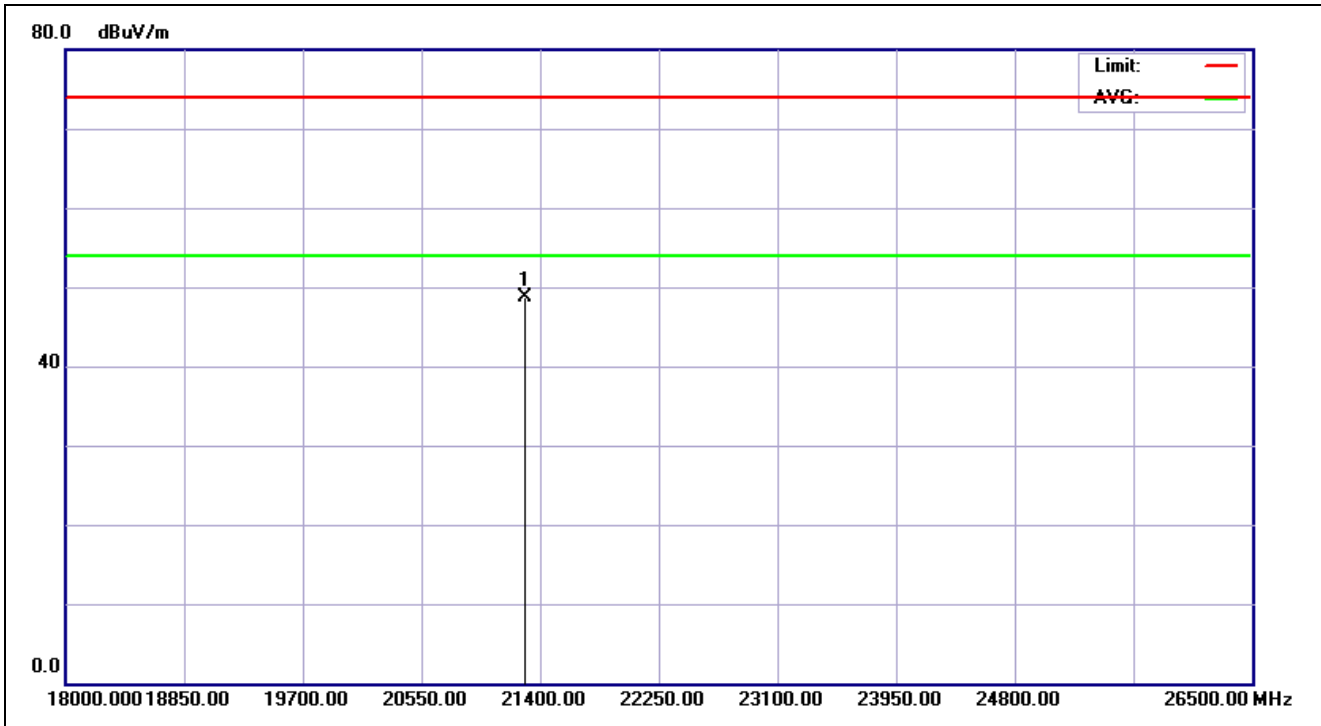
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:40:57
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19035.256	29.90	19.02	48.92	74.00	-25.08	peak			



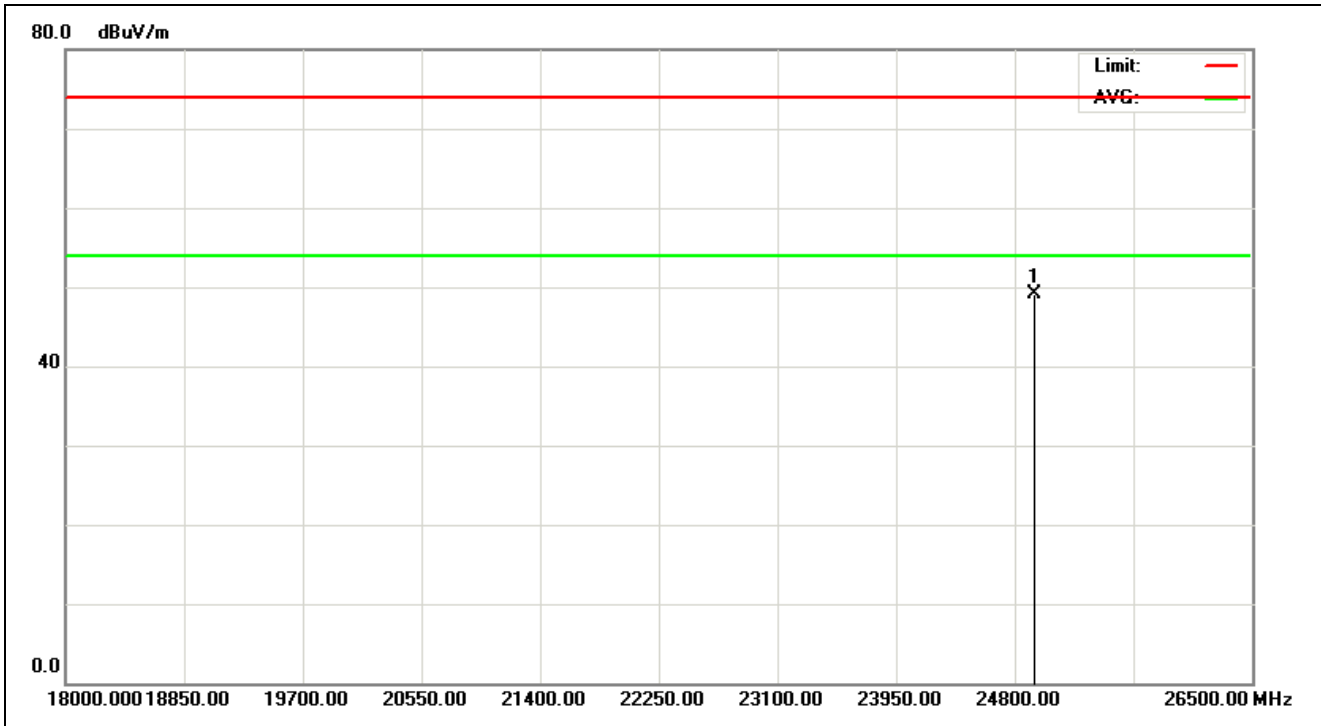
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:41:13
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18721.955	29.13	20.77	49.90	74.00	-24.10	peak			



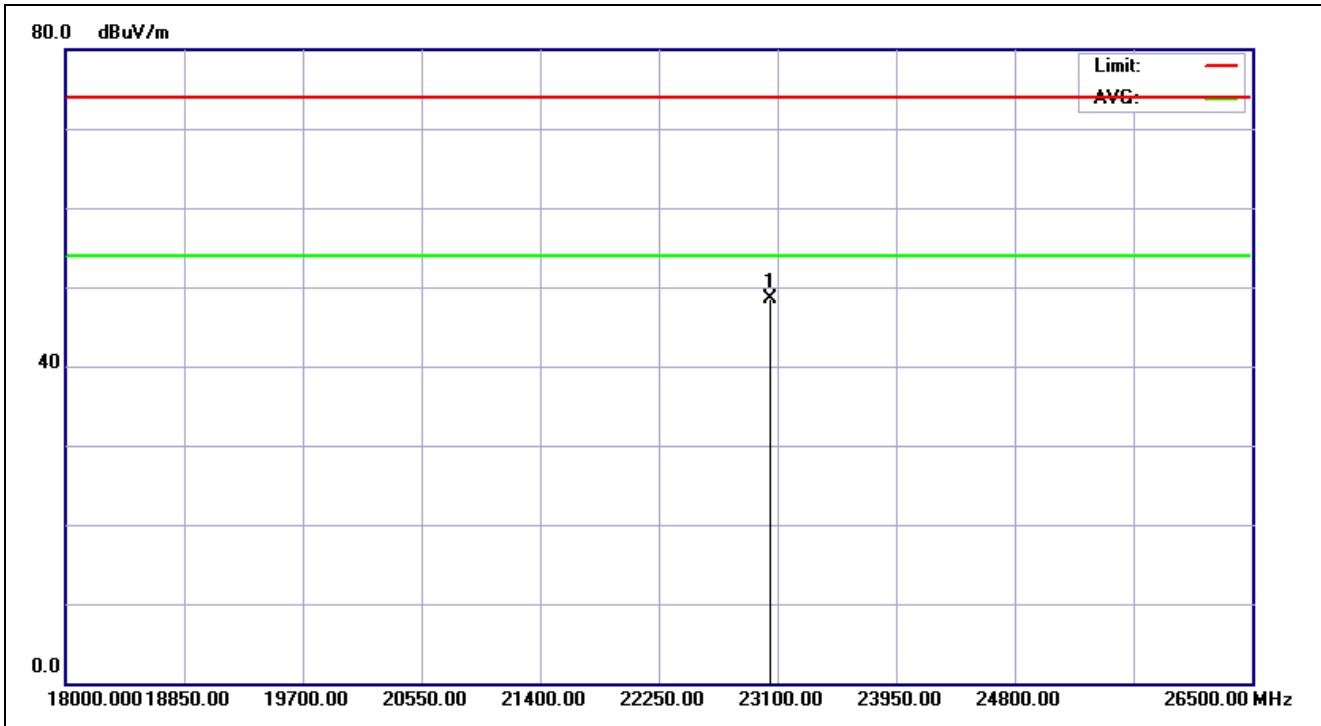
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:43:53
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21296.474	29.49	19.22	48.71	74.00	-25.29	peak			



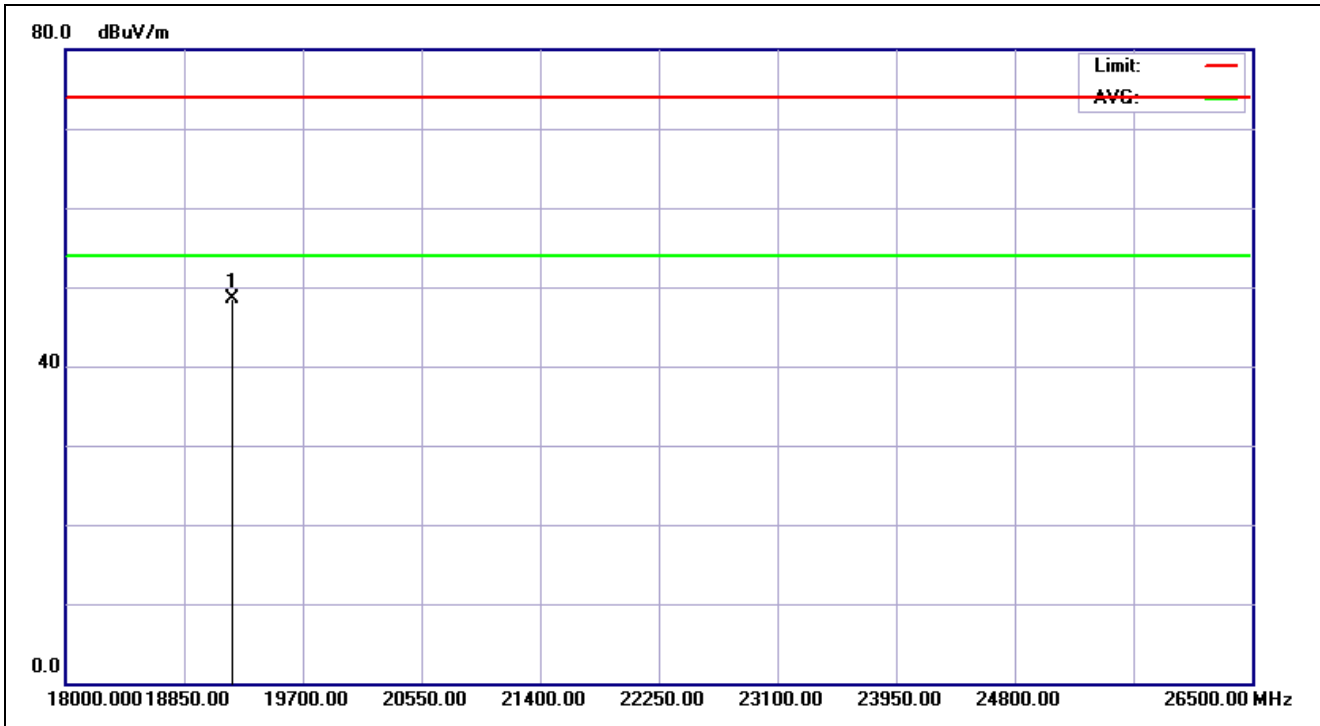
Service No.:	113154149-RF	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:42:39
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24947.115	30.53	18.61	49.14	74.00	-24.86	peak			



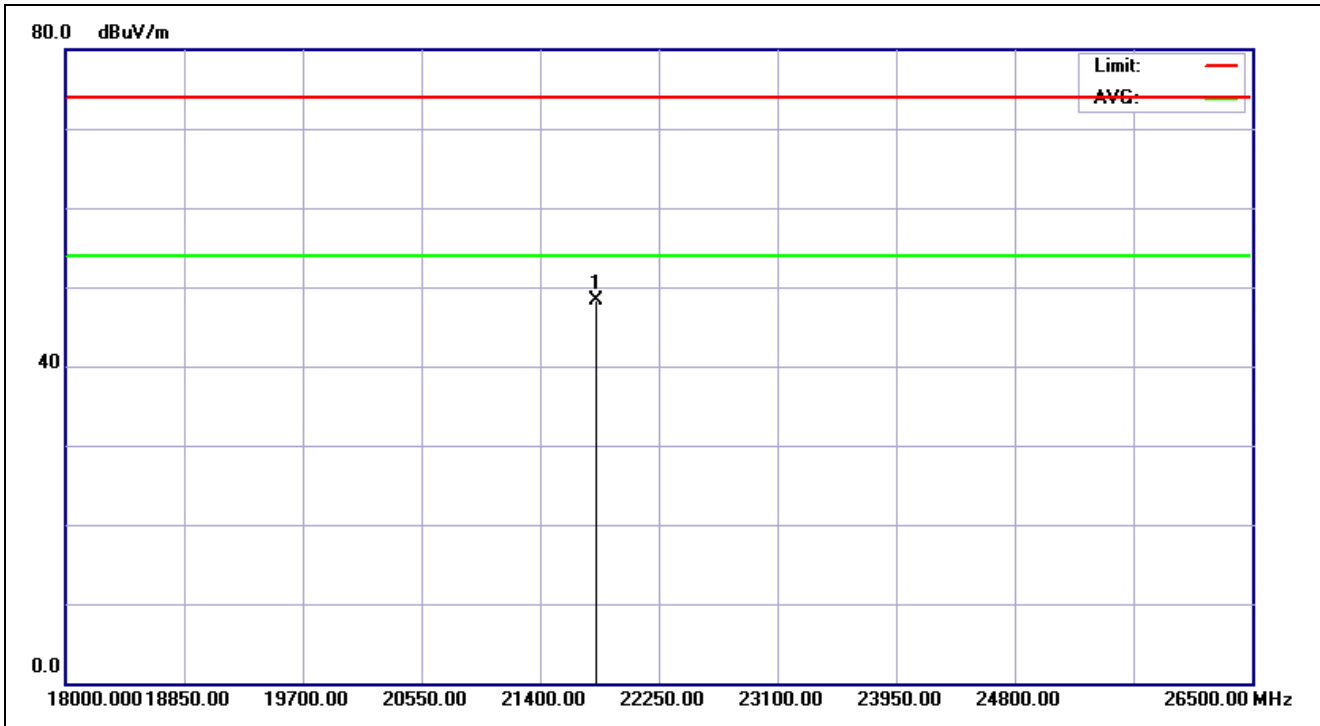
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:42:55
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23053.686	30.27	18.20	48.47	74.00	-25.53	peak			



Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:43:12
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19198.718	29.53	18.88	48.41	74.00	-25.59	peak			



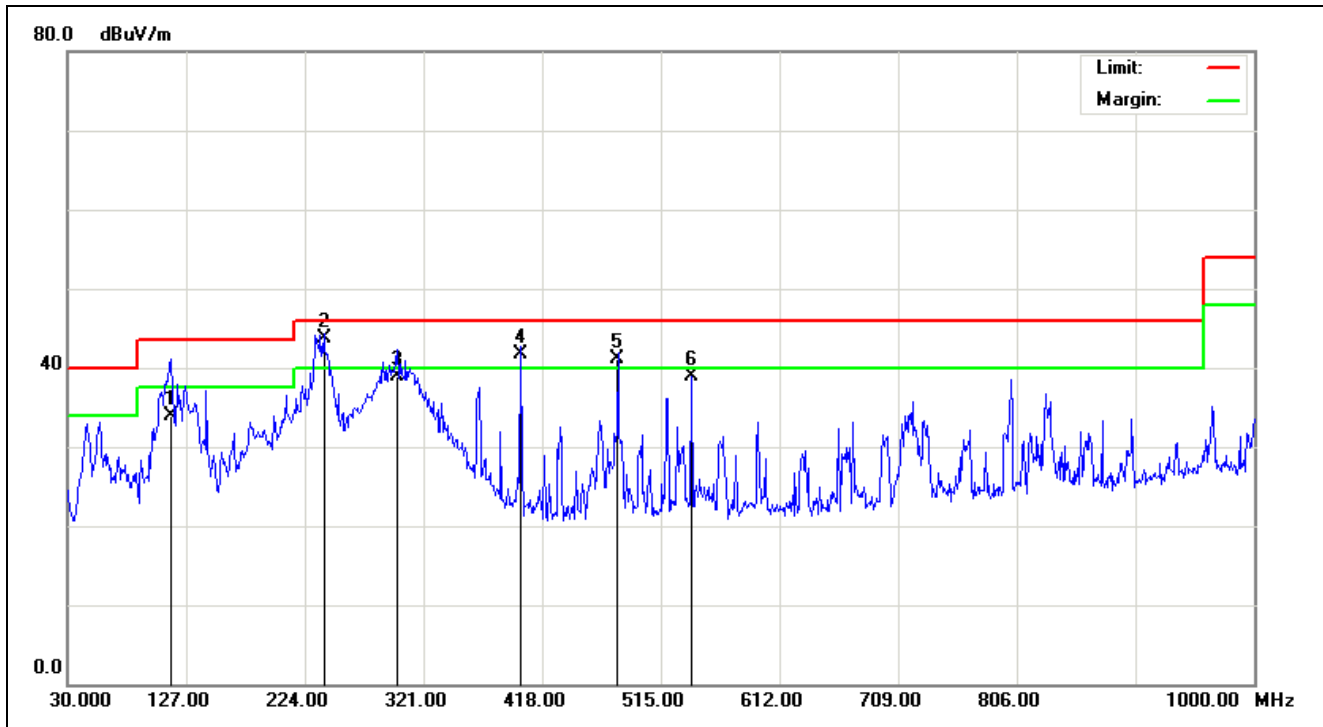
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:43:26
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	G-CH2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21800.481	29.42	18.83	48.25	74.00	-25.75	peak			

Spurious Emissions, TX Mode, 30M-1G



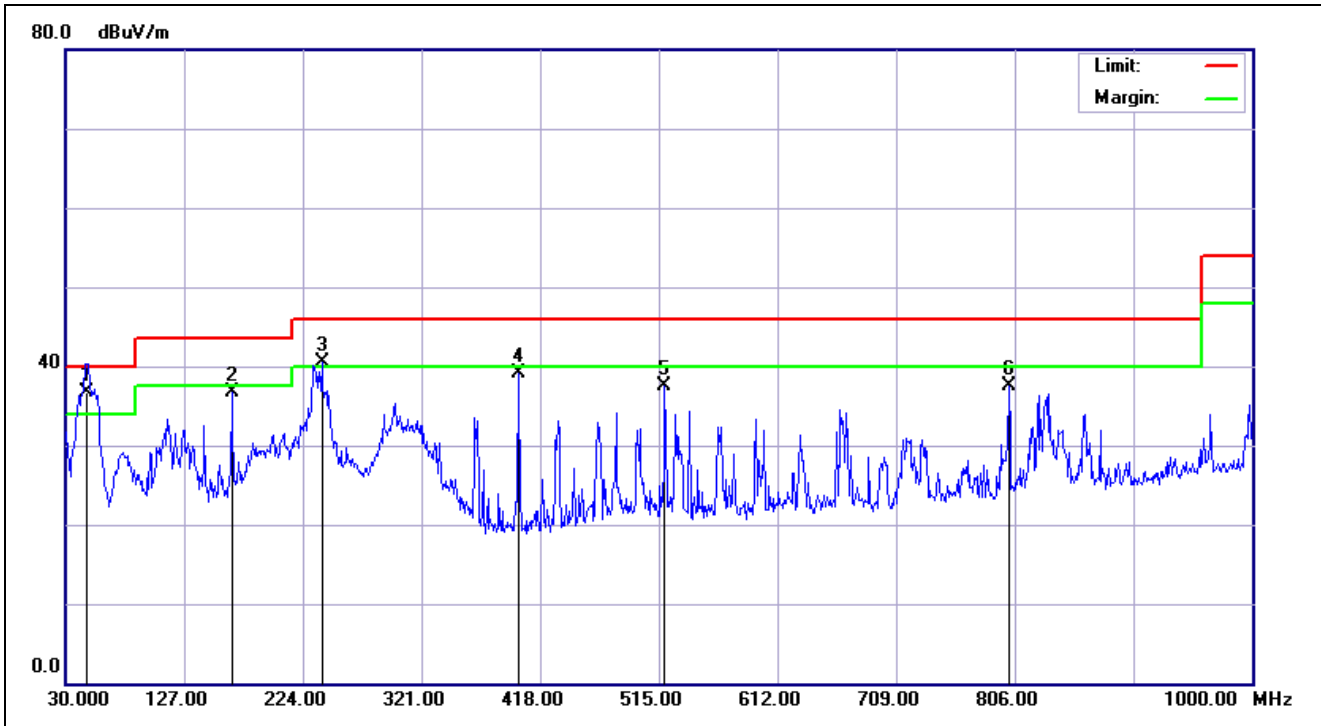
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Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/1 14:33:32
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/44%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	114.3900	-13.72	47.72	34.00	43.50	-9.50	QP	250	140	
2	240.0000	-12.71	56.34	43.63	46.00	-2.37	QP	100	283	
3	299.6600	-10.39	49.29	38.90	46.00	-7.10	QP	100	199	
4	400.4800	-8.53	50.27	41.74	46.00	-4.26	QP	250	333	
5	480.0599	-7.51	48.55	41.04	46.00	-4.96	QP	100	334	
6	540.2199	-6.94	45.77	38.83	46.00	-7.17	QP	250	360	

Spurious Emissions, TX Mode, 30M-1G



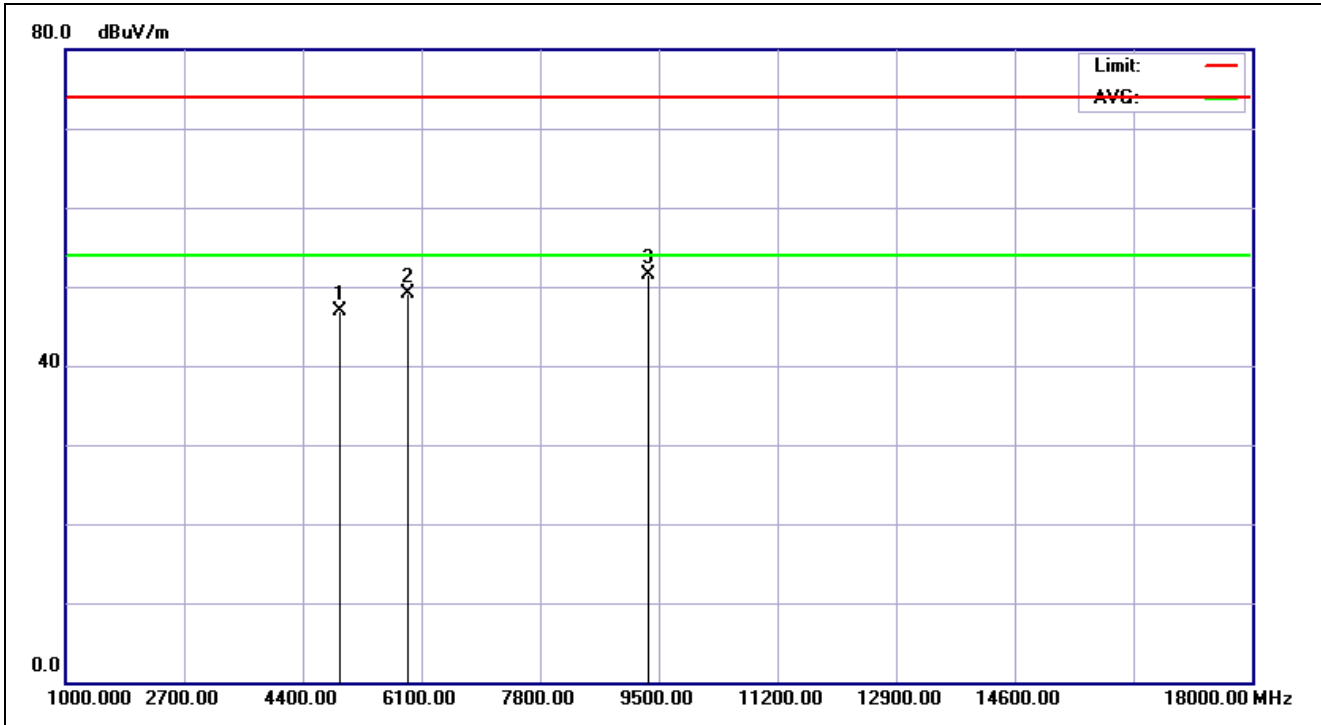
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/1 14:37:31
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/44%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	47.4900	-15.72	52.44	36.72	40.00	-3.28	QP	100	183	
2	165.8000	-14.50	51.28	36.78	43.50	-6.72	QP	100	291	
3	239.5200	-12.75	53.33	40.58	46.00	-5.42	QP	100	226	
4	400.5400	-8.53	47.55	39.02	46.00	-6.98	QP	100	199	
5	519.8500	-7.10	44.56	37.46	46.00	-8.54	QP	100	261	
6	801.1500	-3.55	40.96	37.41	46.00	-8.59	QP	100	253	

Spurious Emissions, RX Mode, 1-18G

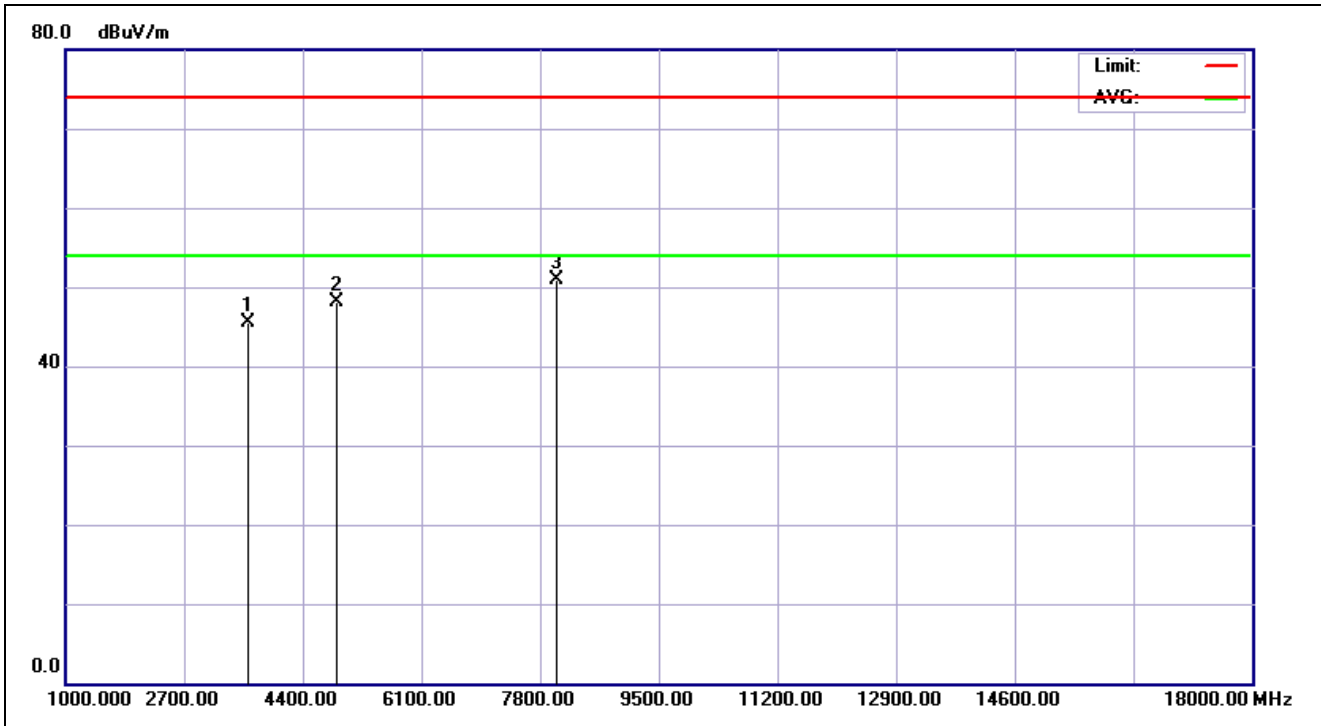


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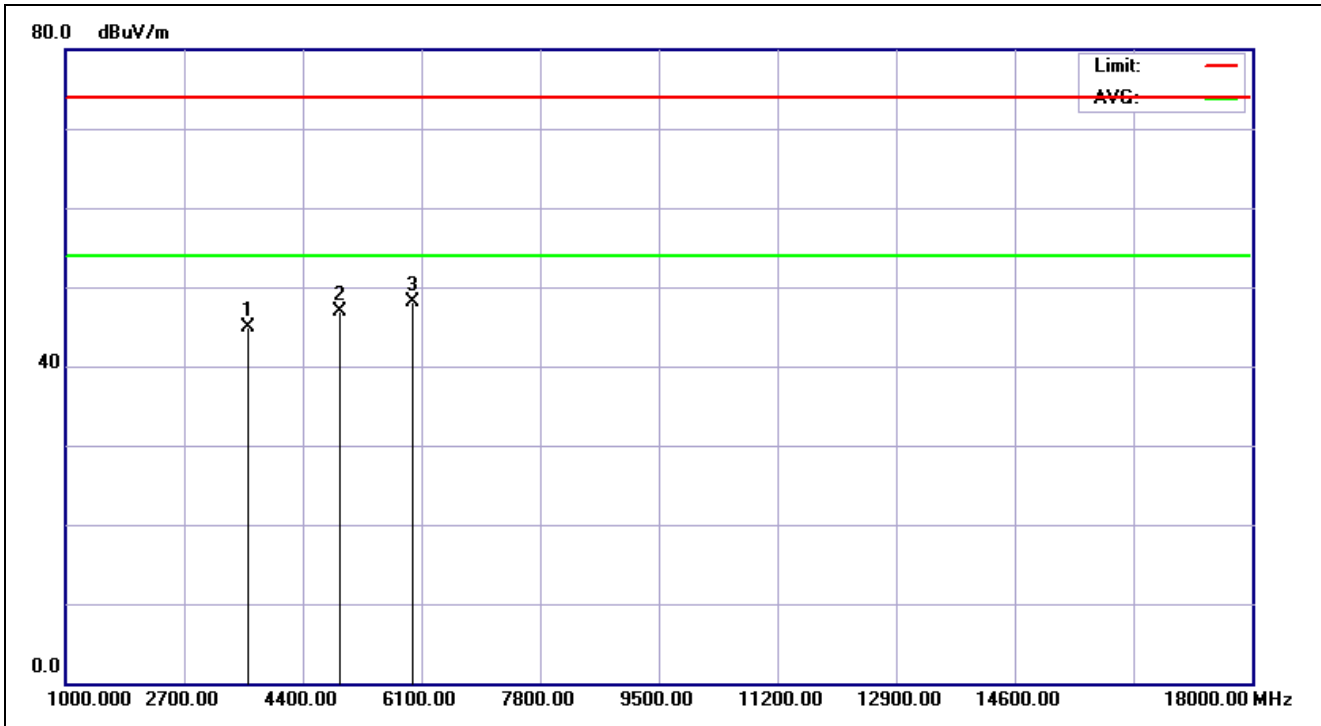
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 10:58:16
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2412-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4923.077	-2.44	49.34	46.90	74.00	-27.10	peak	100	1	
2	5903.846	3.02	46.15	49.17	74.00	-24.83	peak	100	298	
3	9363.782	6.62	44.88	51.50	74.00	-22.50	peak	100	119	



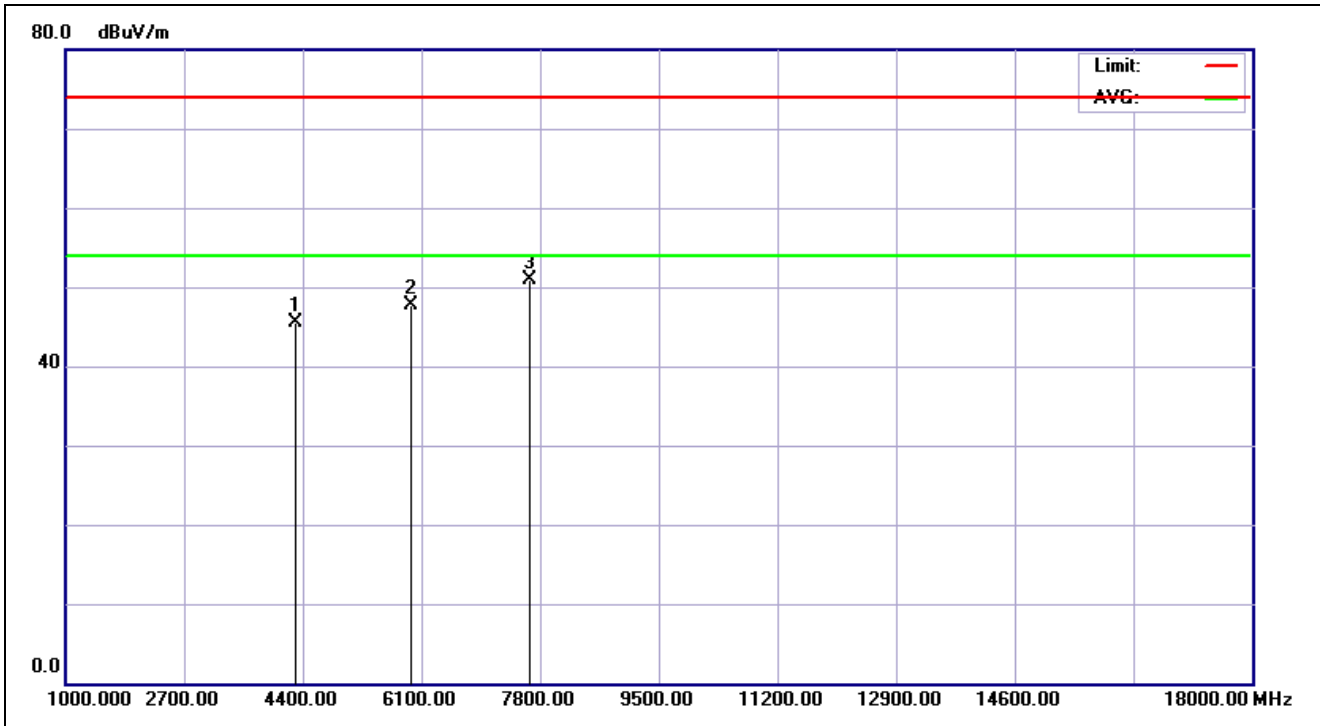
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 10:59:18
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2412-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3615.385	-5.77	51.34	45.57	74.00	-28.43	peak	100	20	
2	4895.833	-2.50	50.64	48.14	74.00	-25.86	peak	100	0	
3	8028.846	6.01	44.89	50.90	74.00	-23.10	peak	100	1	



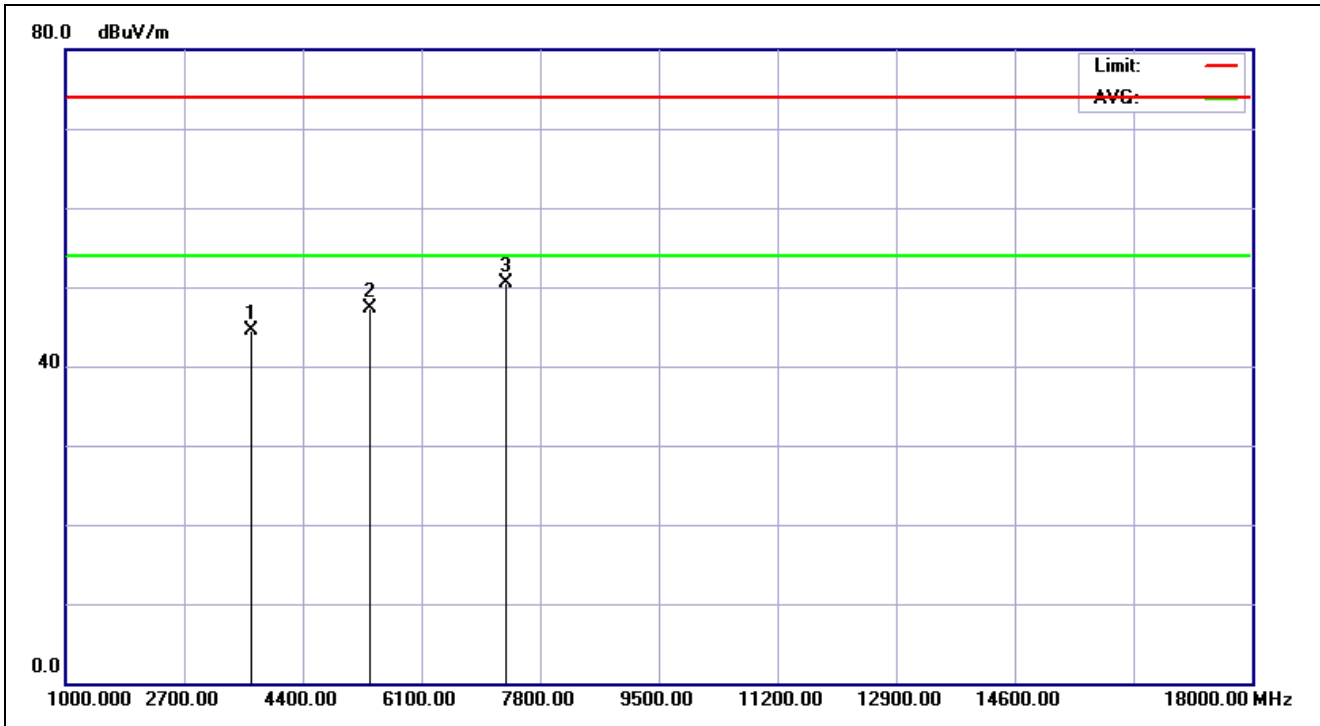
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:06:44
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3615.385	-5.77	50.62	44.85	74.00	-29.15	peak	100	242	
2	4923.077	-2.44	49.35	46.91	74.00	-27.09	peak	100	25	
3	5985.577	3.58	44.45	48.03	74.00	-25.97	peak	100	68	



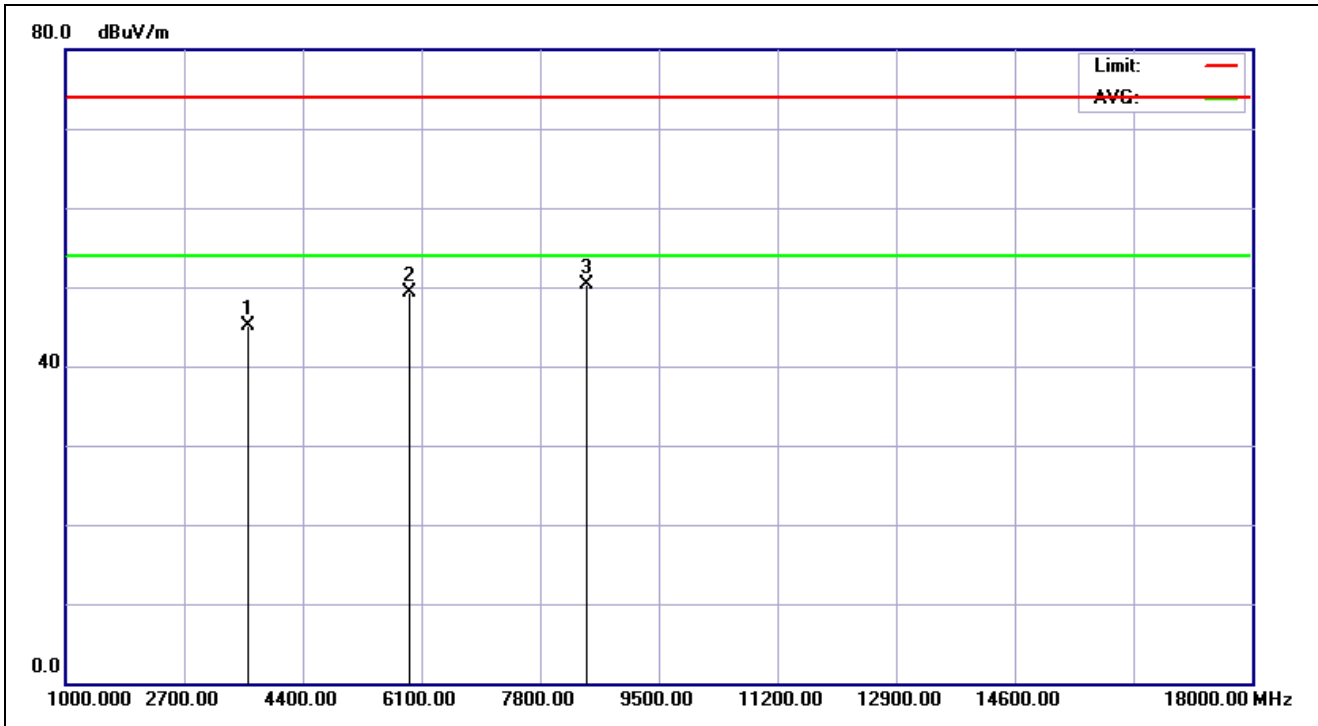
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:07:46
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4296.474	-4.34	49.86	45.52	74.00	-28.48	peak	100	359	
2	5958.333	3.39	44.31	47.70	74.00	-26.30	peak	100	337	
3	7647.436	6.17	44.67	50.84	74.00	-23.16	peak	100	276	



Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:00:54
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2462-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3669.872	-5.74	50.26	44.52	74.00	-29.48	peak	100	208	
2	5358.974	-0.46	47.70	47.24	74.00	-26.76	peak	100	31	
3	7320.513	5.74	44.67	50.41	74.00	-23.59	peak	100	149	



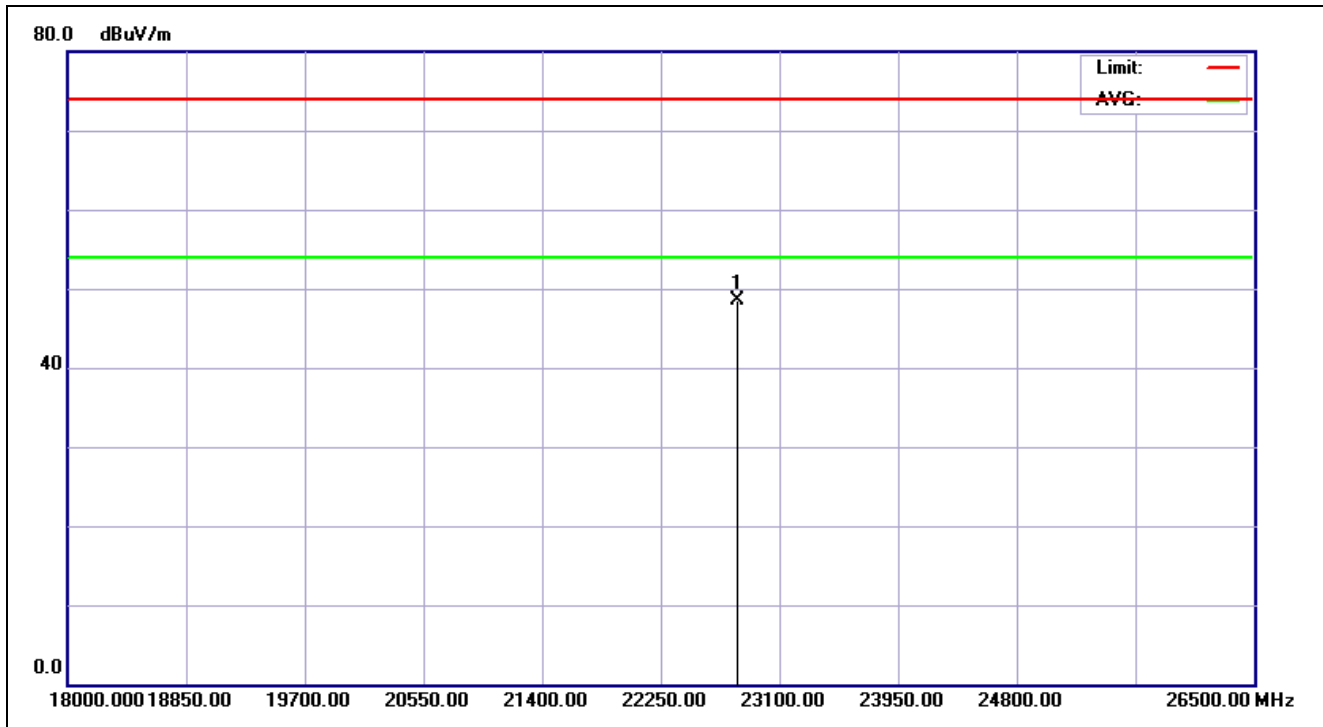
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:01:56
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2462-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3615.385	-5.77	50.87	45.10	74.00	-28.90	peak	100	306	
2	5931.090	3.21	46.18	49.39	74.00	-24.61	peak	100	199	
3	8464.744	6.42	43.88	50.30	74.00	-23.70	peak	100	359	

Spurious Emissions, RX Mode, 18-26G

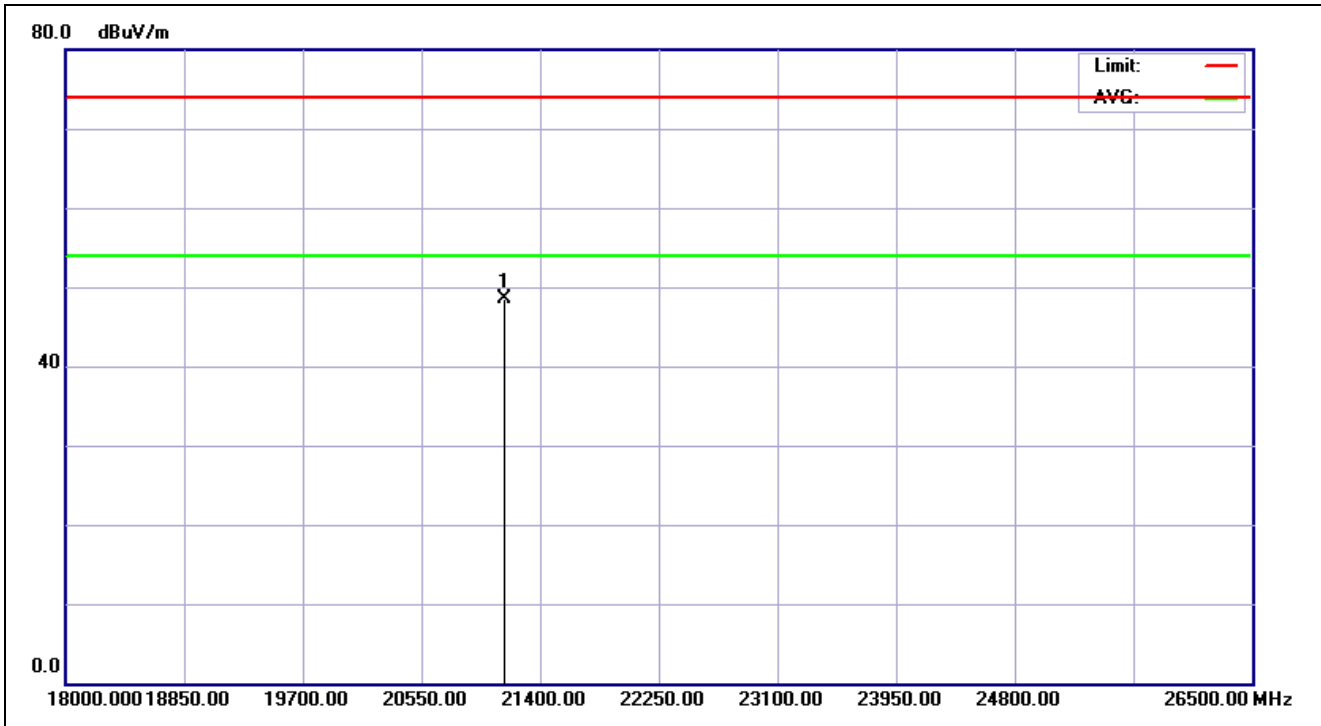


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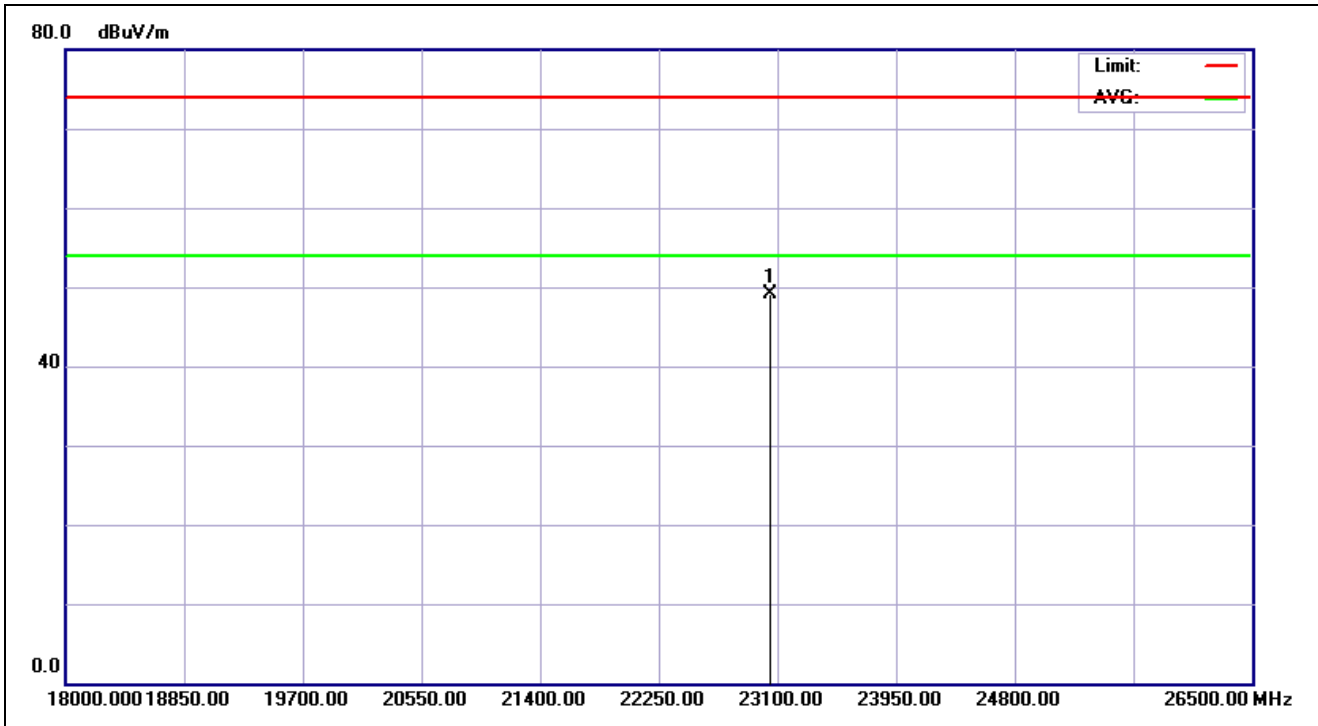
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:35:43
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2412-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22794.872	29.75	18.73	48.48	74.00	-25.52	peak			



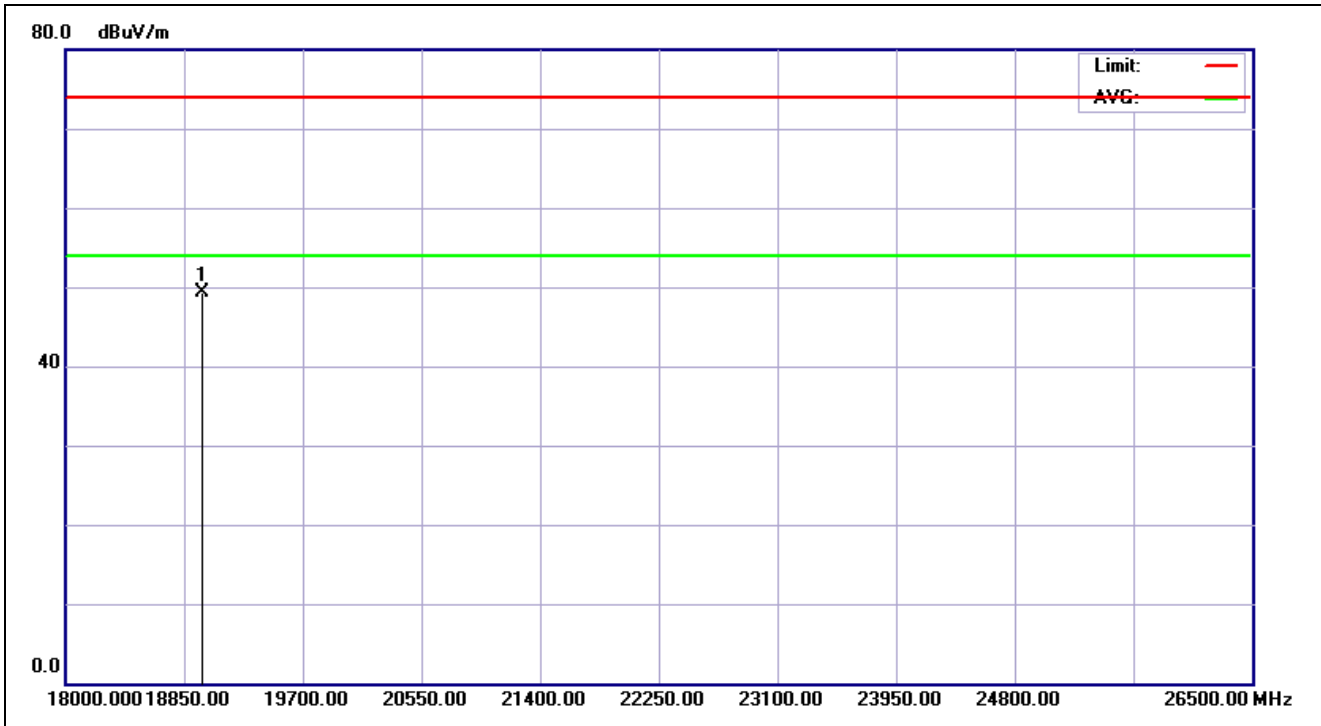
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:35:54
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2412-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21146.635	29.54	18.98	48.52	74.00	-25.48	peak			



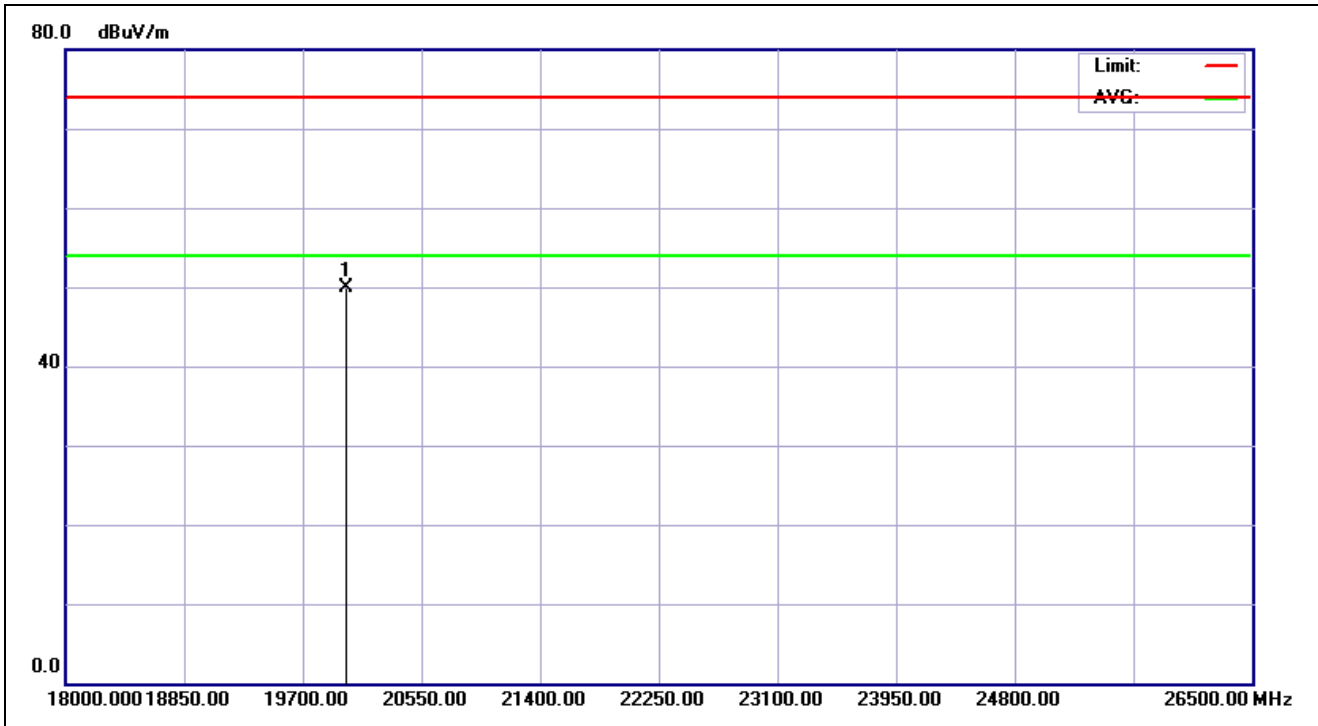
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:38:32
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23053.686	30.27	18.83	49.10	74.00	-24.90	peak			



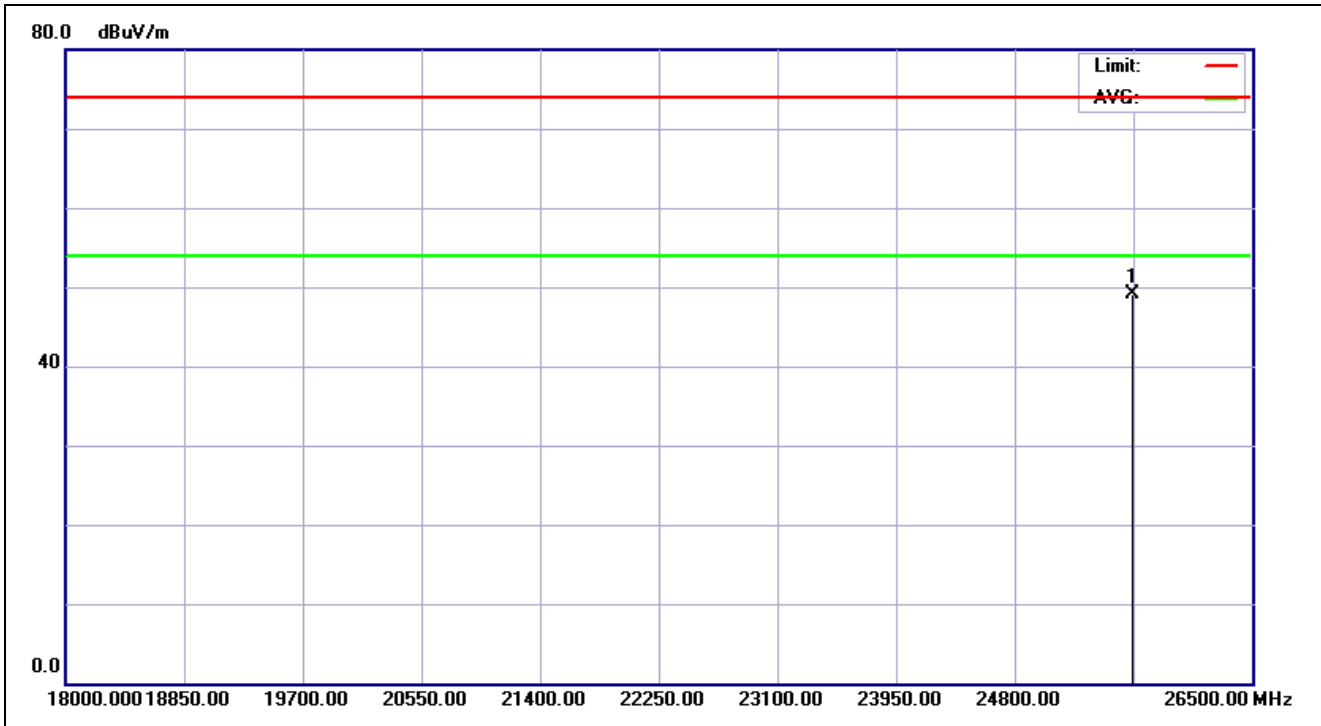
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:38:47
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18980.769	29.93	19.28	49.21	74.00	-24.79	peak			



Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/5 11:39:07
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2462-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20016.026	29.32	20.59	49.91	74.00	-24.09	peak			



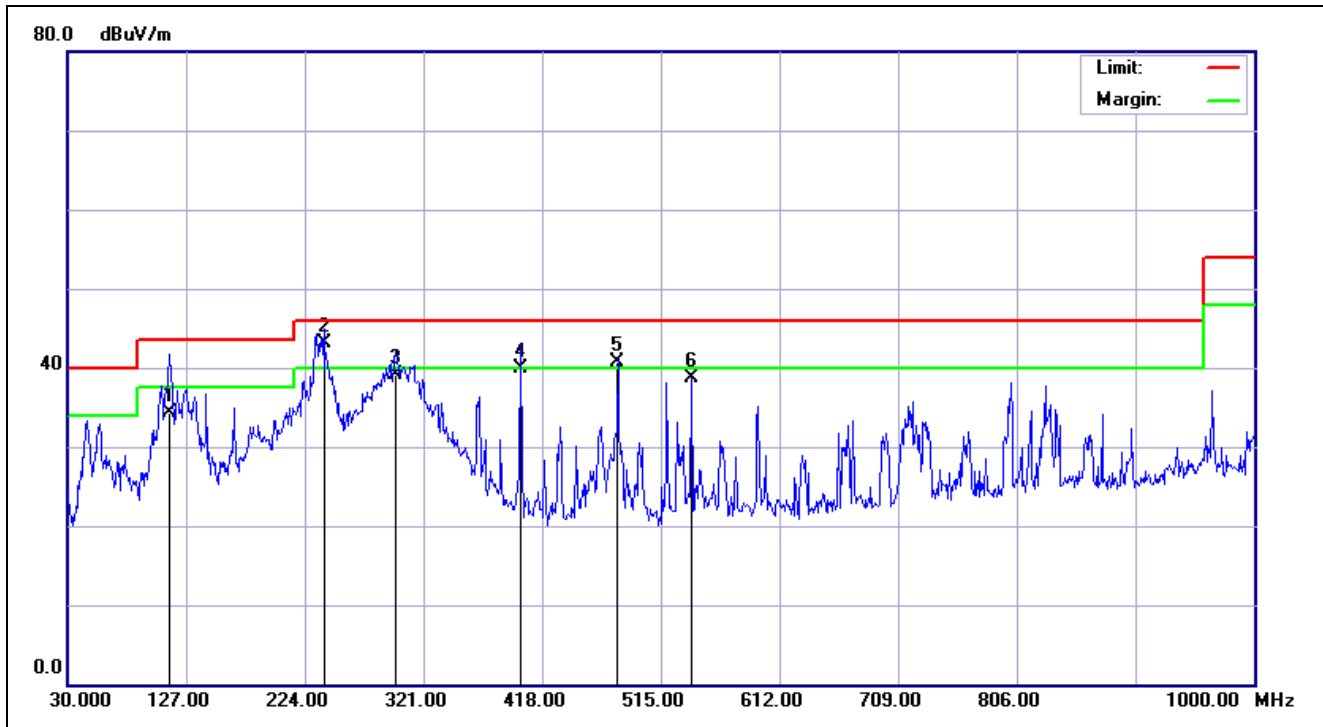
Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/5 11:39:21
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/49%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	B-CH2462-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25641.827	31.21	17.81	49.02	74.00	-24.98	peak			

Spurious Emissions, RX Mode, 30M-1G



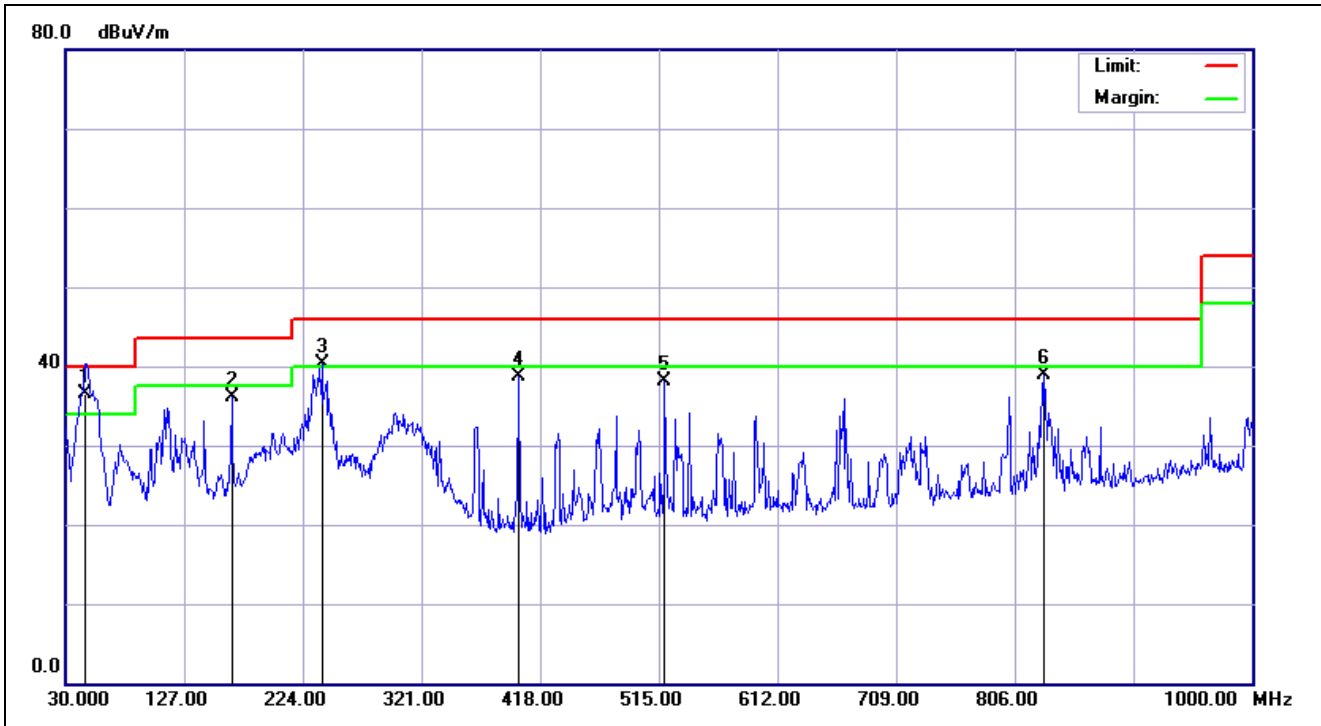
TUV Taiwan
 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105
 Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2013/8/1 14:48:29
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/44%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	113.4200	-13.79	48.09	34.30	43.50	-9.20	QP	250	294	
2	239.5200	-12.75	55.87	43.12	46.00	-2.88	QP	100	265	
3	297.7200	-10.47	49.57	39.10	46.00	-6.90	QP	100	191	
4	400.5400	-8.53	48.43	39.90	46.00	-6.10	QP	100	134	
5	480.0799	-7.51	48.22	40.71	46.00	-5.29	QP	100	339	
6	540.2199	-6.94	45.55	38.61	46.00	-7.39	QP	250	360	

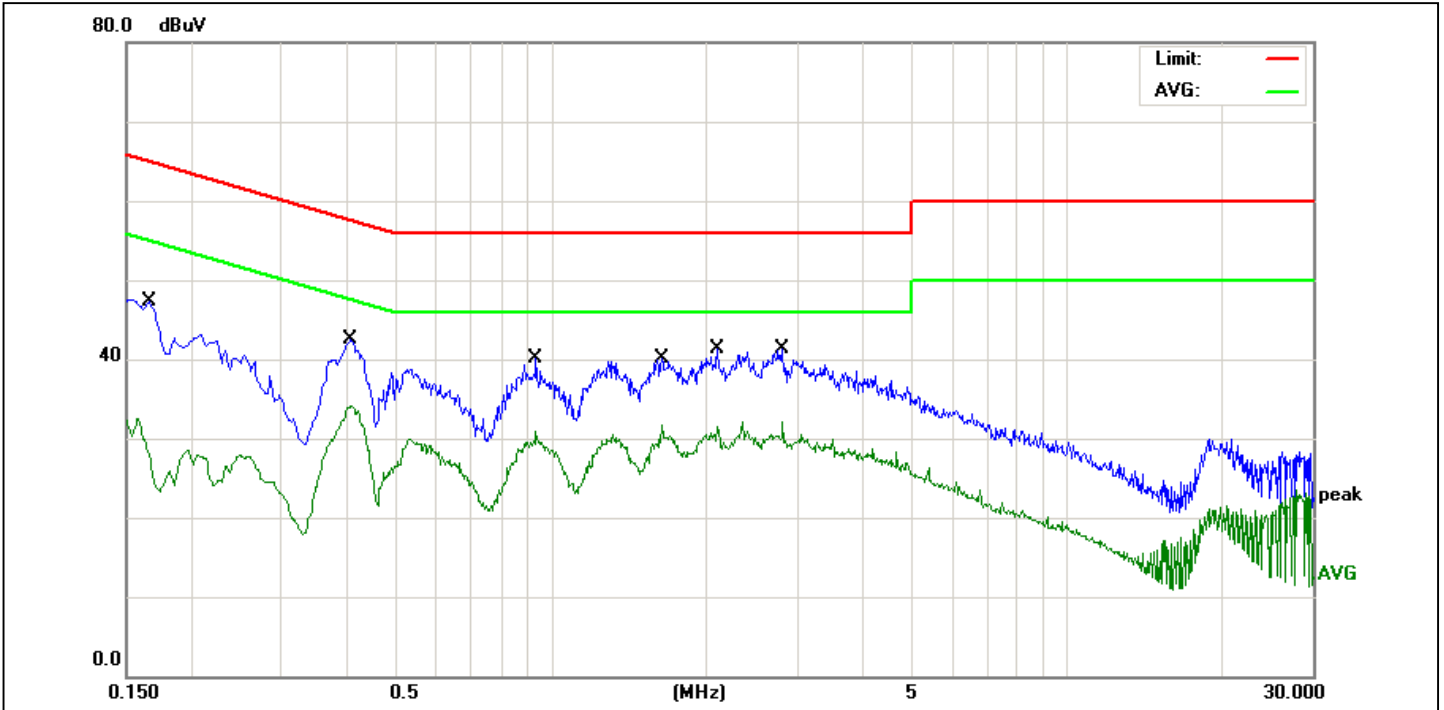
Spurious Emissions, RX Mode, 30M-1G



Service No.:	113154149	Test Distance:	3M
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2013/8/1 14:52:27
Applicant:	Wiser	Test Rating:	AC 110V/60Hz
Product:	Wireless device	Temp.(°C)/Hum.(%):	25(°C)/44%
Model No.:	Wiser Controller MKII	Test Engineer:	Hugo Chang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	45.5200	-14.71	51.31	36.60	40.00	-3.40	QP	100	237	
2	165.8000	-14.50	50.69	36.19	43.50	-7.31	QP	100	0	
3	239.5200	-12.75	53.03	40.28	46.00	-5.72	QP	100	231	
4	400.5400	-8.53	47.17	38.64	46.00	-7.36	QP	100	201	
5	519.8500	-7.10	45.16	38.06	46.00	-7.94	QP	100	250	
6	830.2500	-2.88	41.88	39.00	46.00	-7.00	QP	100	43	

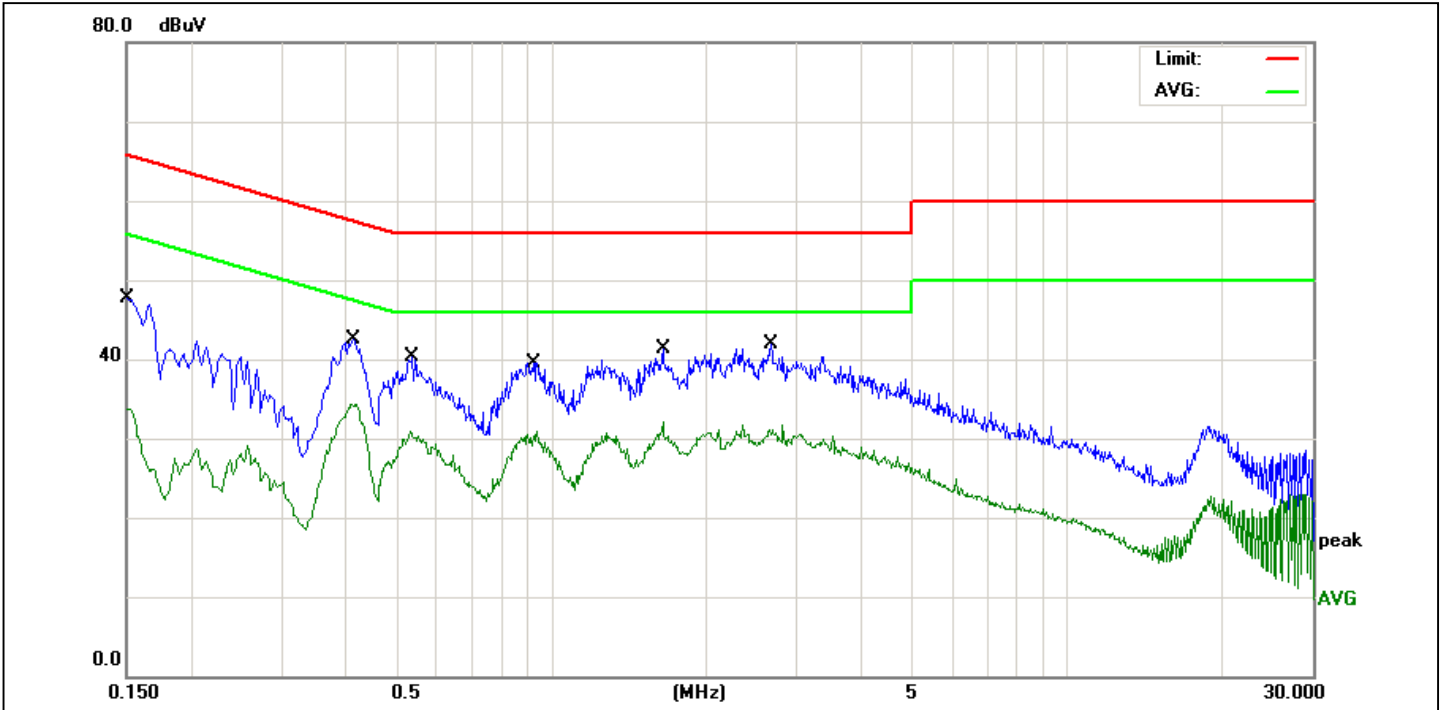
Mains Spurious Emissions



Service No.: 113154149-RF
 Test Standard: NCC Class B Conduction
 Test item: Conducted Emission Phase: L1
 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: BT
 Remark:

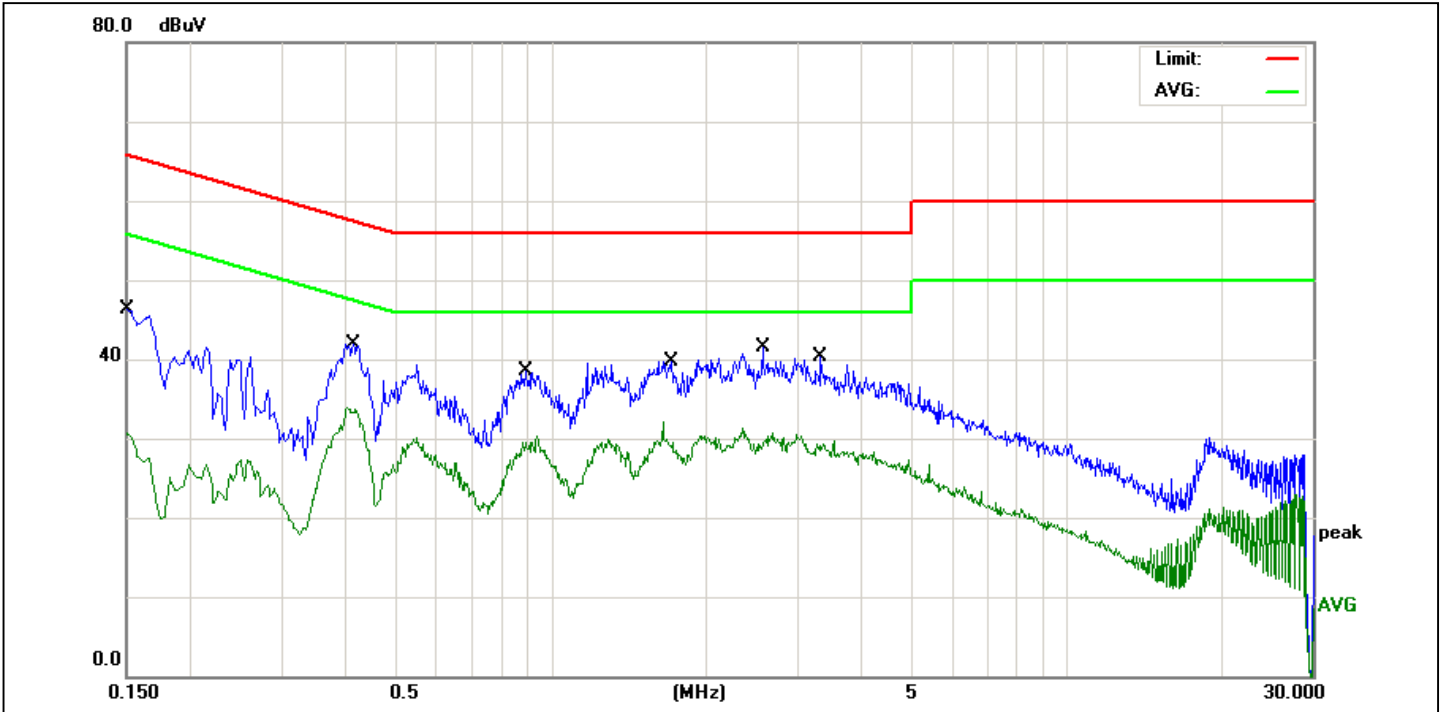
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1660	9.62	30.63	40.25	65.15	-24.90	QP	P	
2	0.1660	9.62	15.33	24.95	55.15	-30.20	AVG	P	
3	0.4100	9.59	29.04	38.63	57.65	-19.02	QP	P	
4	0.4100	9.59	23.77	33.36	47.65	-14.29	AVG	P	
5	0.9380	9.60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



Service No.: 113154149-RF
 Test Standard: NCC Class B Conduction
 Test item: Conducted Emission Phase: N
 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: BT
 Remark:

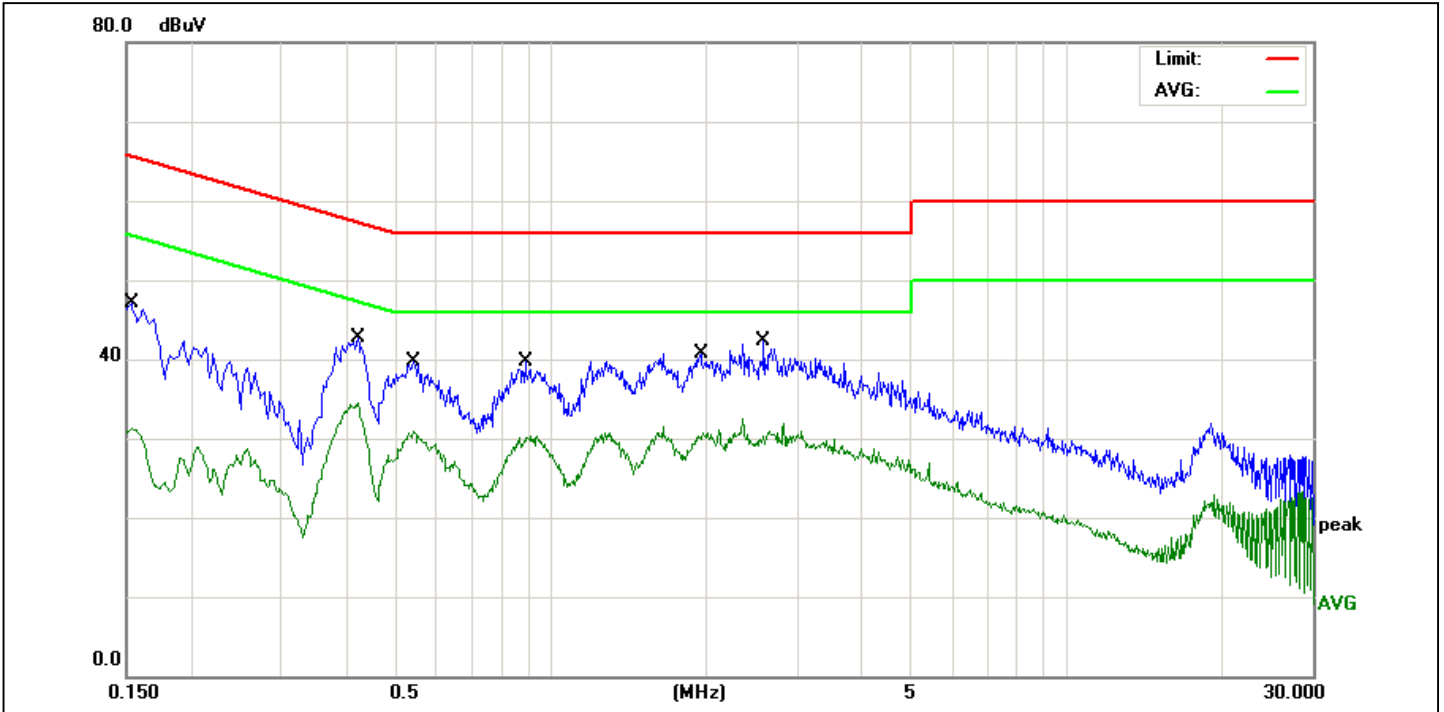
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	9.59	33.90	43.49	65.99	-22.50	QP	P	
2	0.1500	9.59	22.18	31.77	55.99	-24.22	AVG	P	
3	0.4140	9.57	29.64	39.21	57.57	-18.36	QP	P	
4	0.4140	9.57	24.34	33.91	47.57	-13.66	AVG	P	
5	0.5380	9.57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



Service No.: 113154149-RF
 Test Standard: NCC Class B Conduction
 Test item: Conducted Emission Phase: L1
 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
 Remark:

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	P	
2	0.1500	9.62	21.19	30.81	55.99	-25.18	AVG	P	
3	0.4140	9.59	29.25	38.84	57.57	-18.73	QP	P	
4	0.4140	9.59	23.99	33.58	47.57	-13.99	AVG	P	
5	0.8900	9.60	24.48	34.08	56.00	-21.92	QP	P	
6	0.8900	9.60	19.14	28.74	46.00	-17.26	AVG	P	
7	1.7100	9.61	24.79	34.40	56.00	-21.60	QP	P	
8	1.7100	9.61	19.30	28.91	46.00	-17.09	AVG	P	
9	2.5700	9.63	25.05	34.68	56.00	-21.32	QP	P	
10	2.5700	9.63	19.28	28.91	46.00	-17.09	AVG	P	
11	3.3380	9.64	24.04	33.68	56.00	-22.32	QP	P	
12	3.3380	9.64	18.50	28.14	46.00	-17.86	AVG	P	



Service No.: 113154149-RF
 Test Standard: NCC Class B Conduction
 Test item: Conducted Emission Phase: N
 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
 Remark:

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	P	
2	0.1539	9.59	21.56	31.15	55.78	-24.63	AVG	P	
3	0.4220	9.57	29.26	38.83	57.41	-18.58	QP	P	
4	0.4220	9.57	23.80	33.37	47.41	-14.04	AVG	P	
5	0.5420	9.57	25.90	35.47	56.00	-20.53	QP	P	
6	0.5420	9.57	20.73	30.30	46.00	-15.70	AVG	P	
7	0.8900	9.57	25.29	34.86	56.00	-21.14	QP	P	
8	0.8900	9.57	20.00	29.57	46.00	-16.43	AVG	P	
9	1.9540	9.58	25.72	35.30	56.00	-20.70	QP	P	
10	1.9540	9.58	20.19	29.77	46.00	-16.23	AVG	P	
11	2.5900	9.59	25.73	35.32	56.00	-20.68	QP	P	
12	2.5900	9.59	19.99	29.58	46.00	-16.42	AVG	P	