

Test Report No.10054447 10055561 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 10054447 10055561AppendixD)

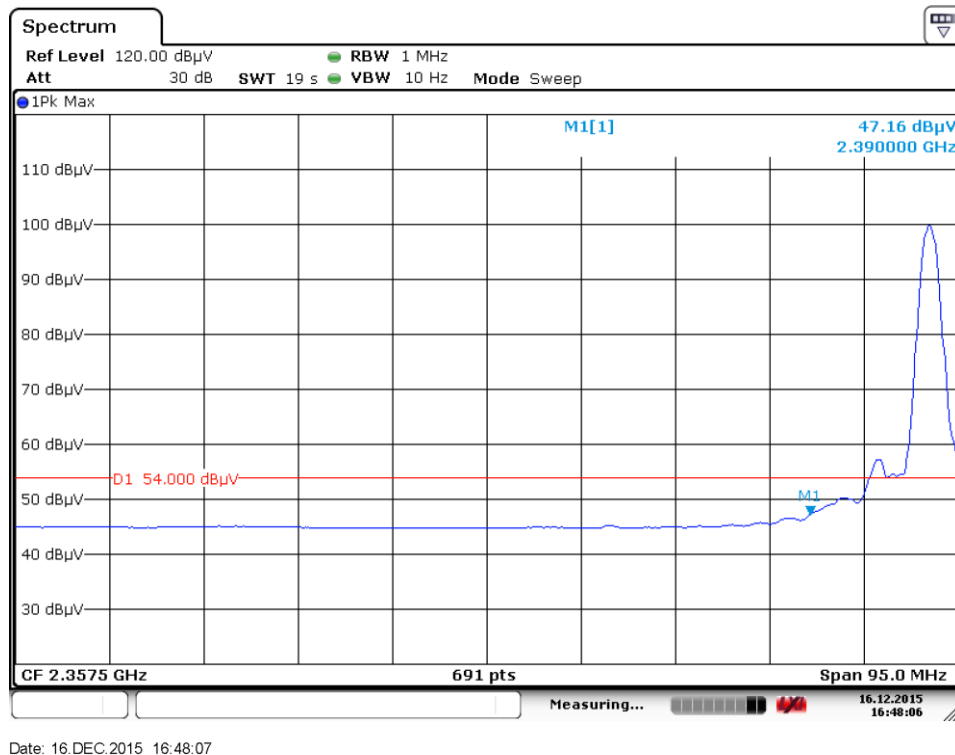
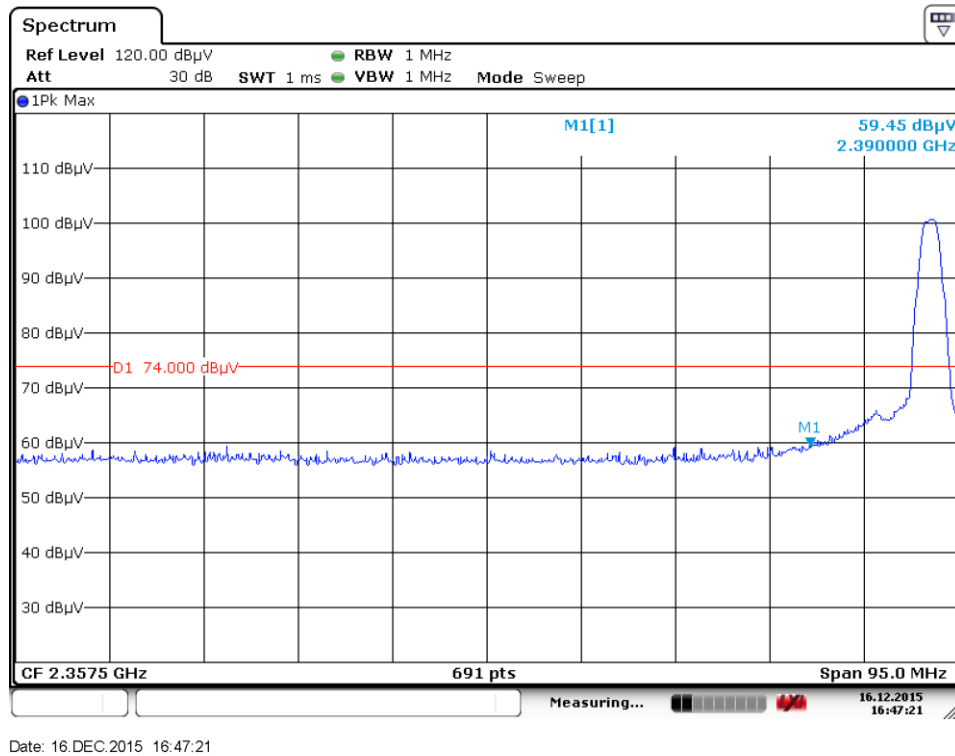
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Spurious Emissions, Band Edges, 2.35-2.5G

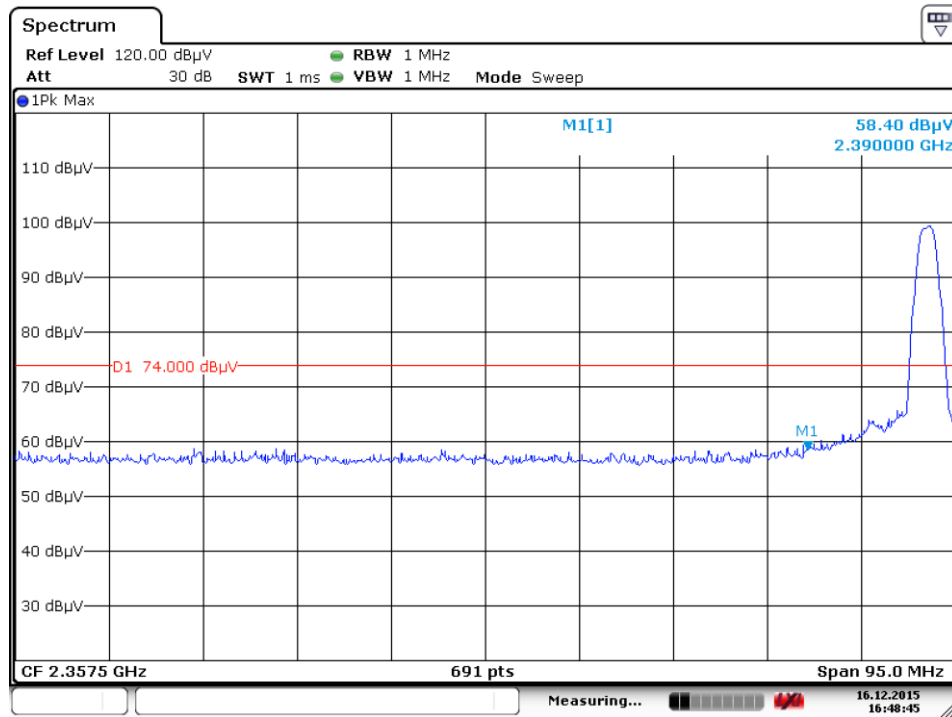
Radiated Bandedge (GFSK)

Low Channel (Hor)

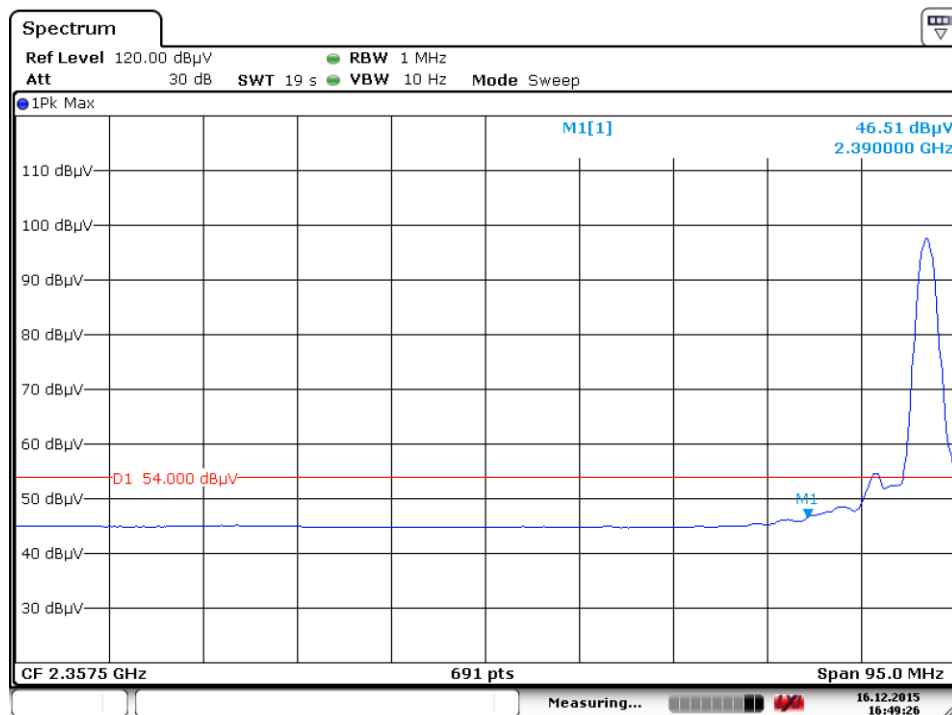


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



Date: 16.DEC.2015 16:48:45

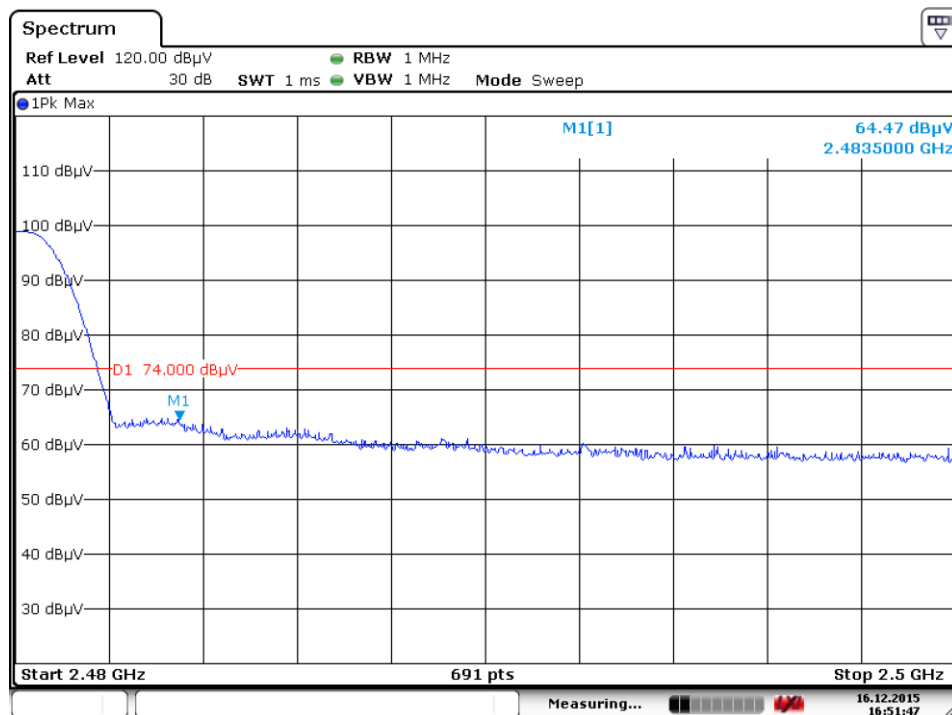


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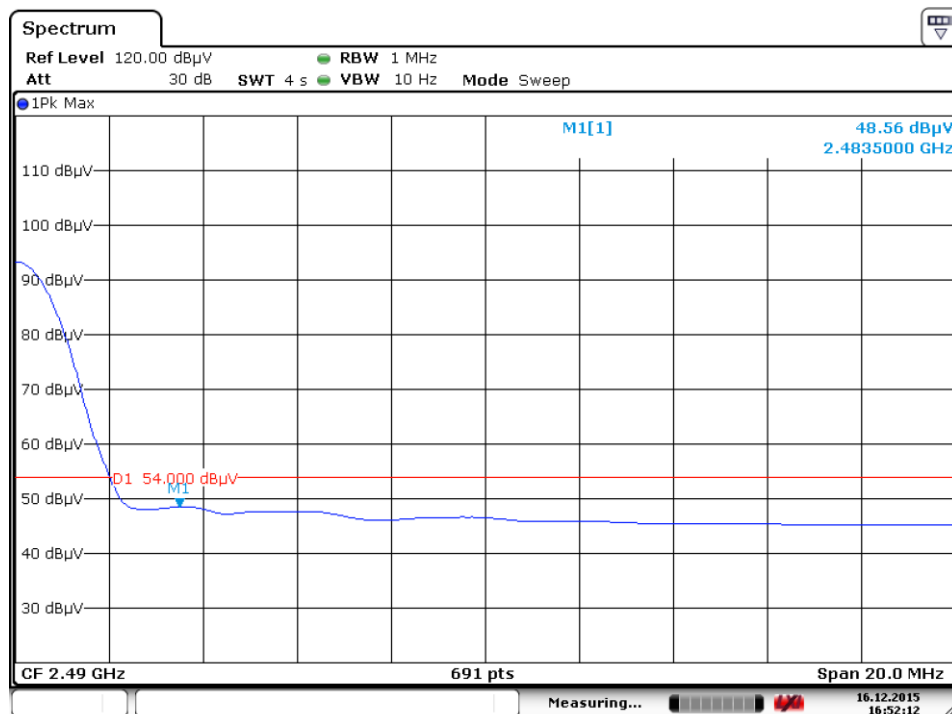
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge (GFSK)

High Channel (Hor)



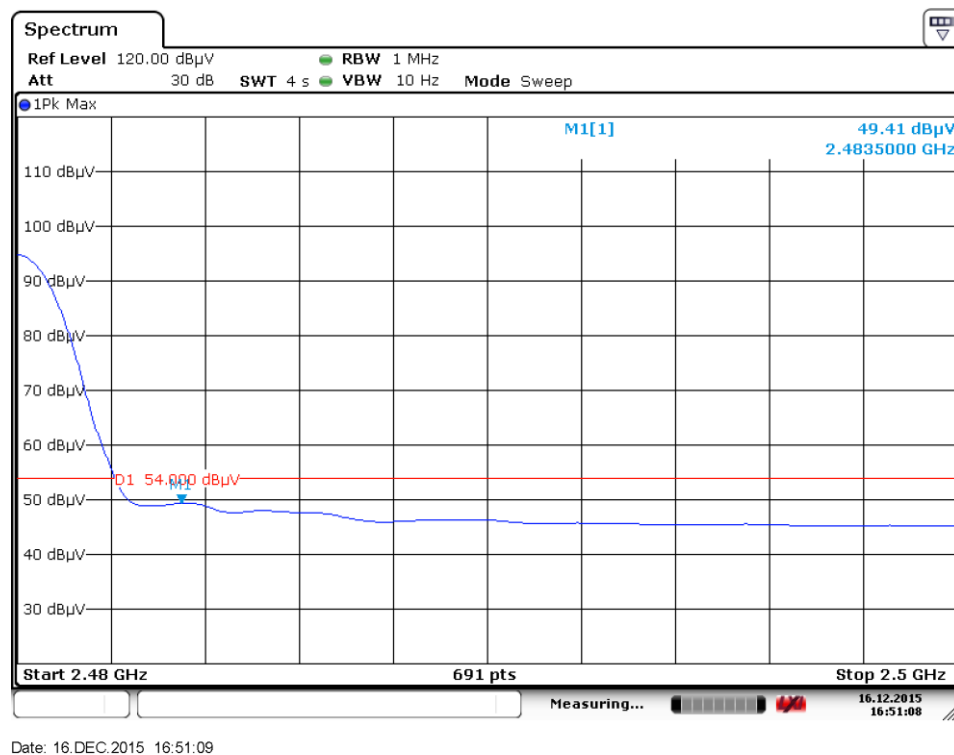
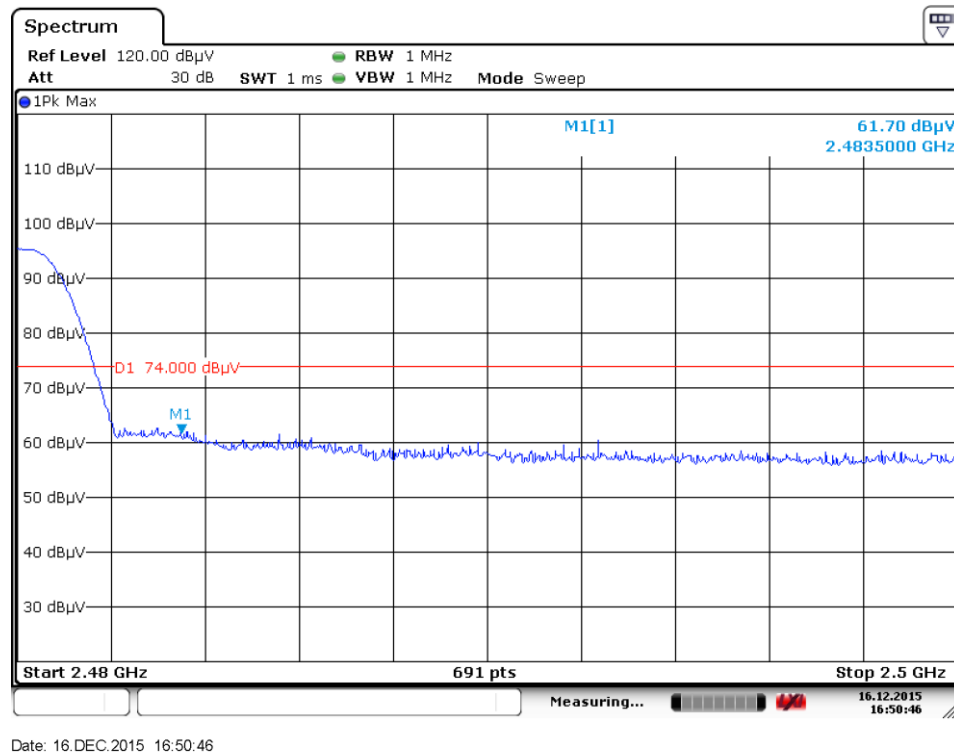
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

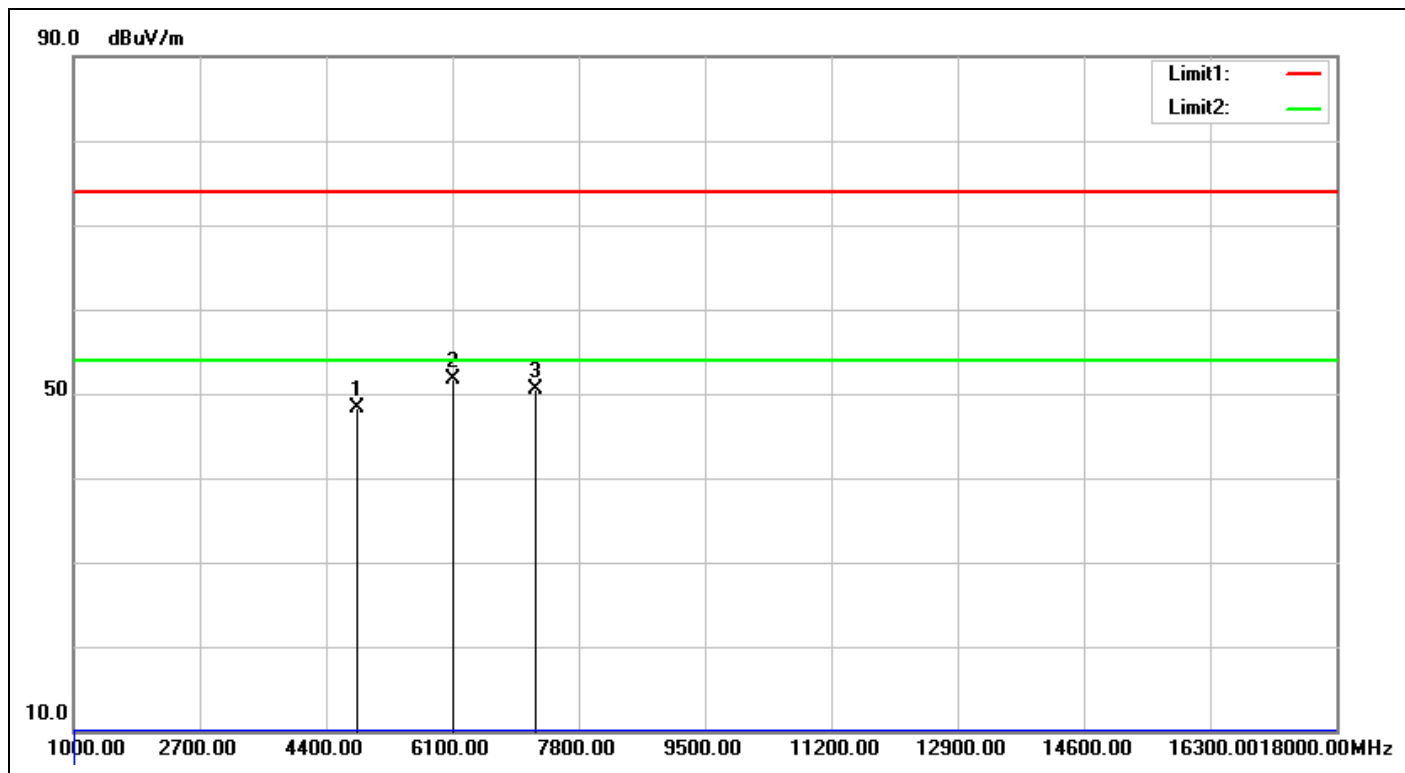
Spurious Emissions, TX Mode, 1-18G



TUV Taiwan

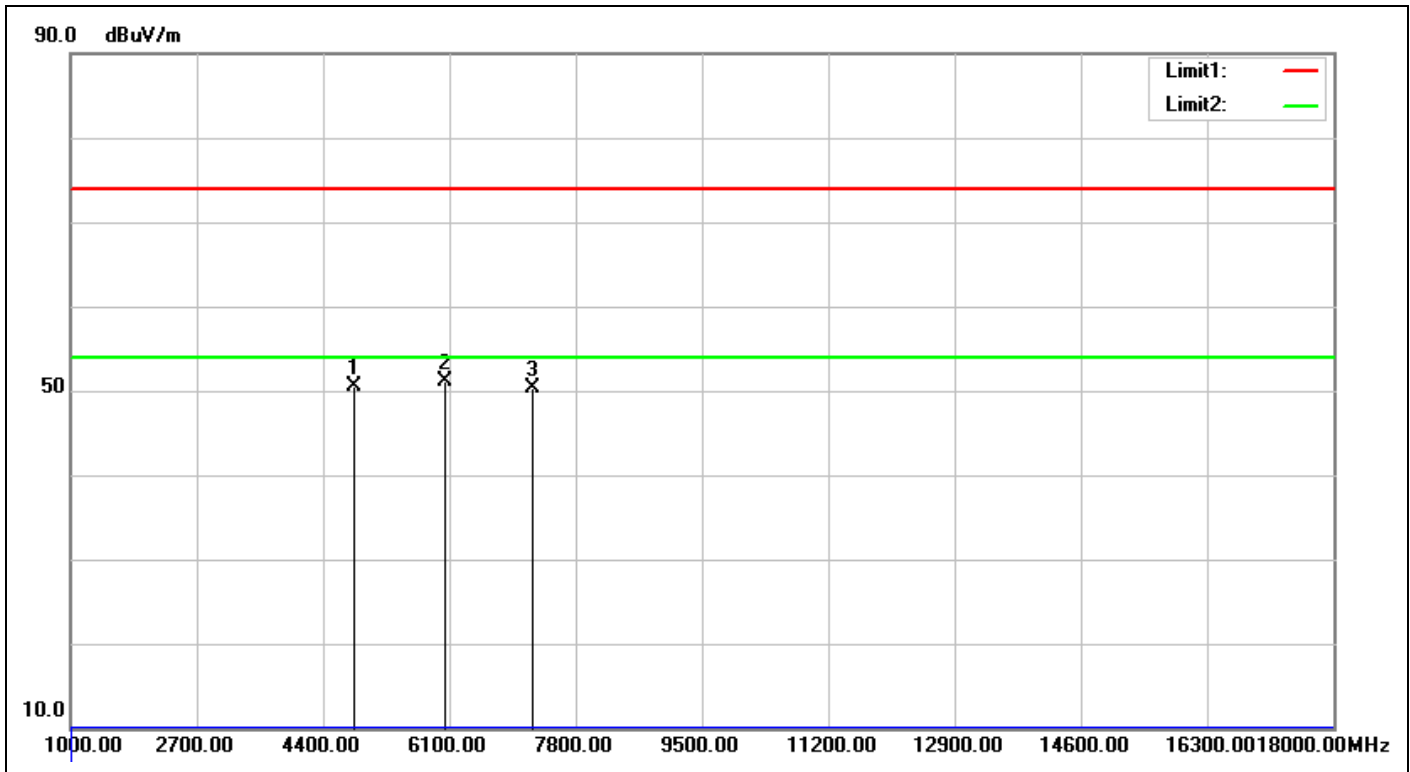
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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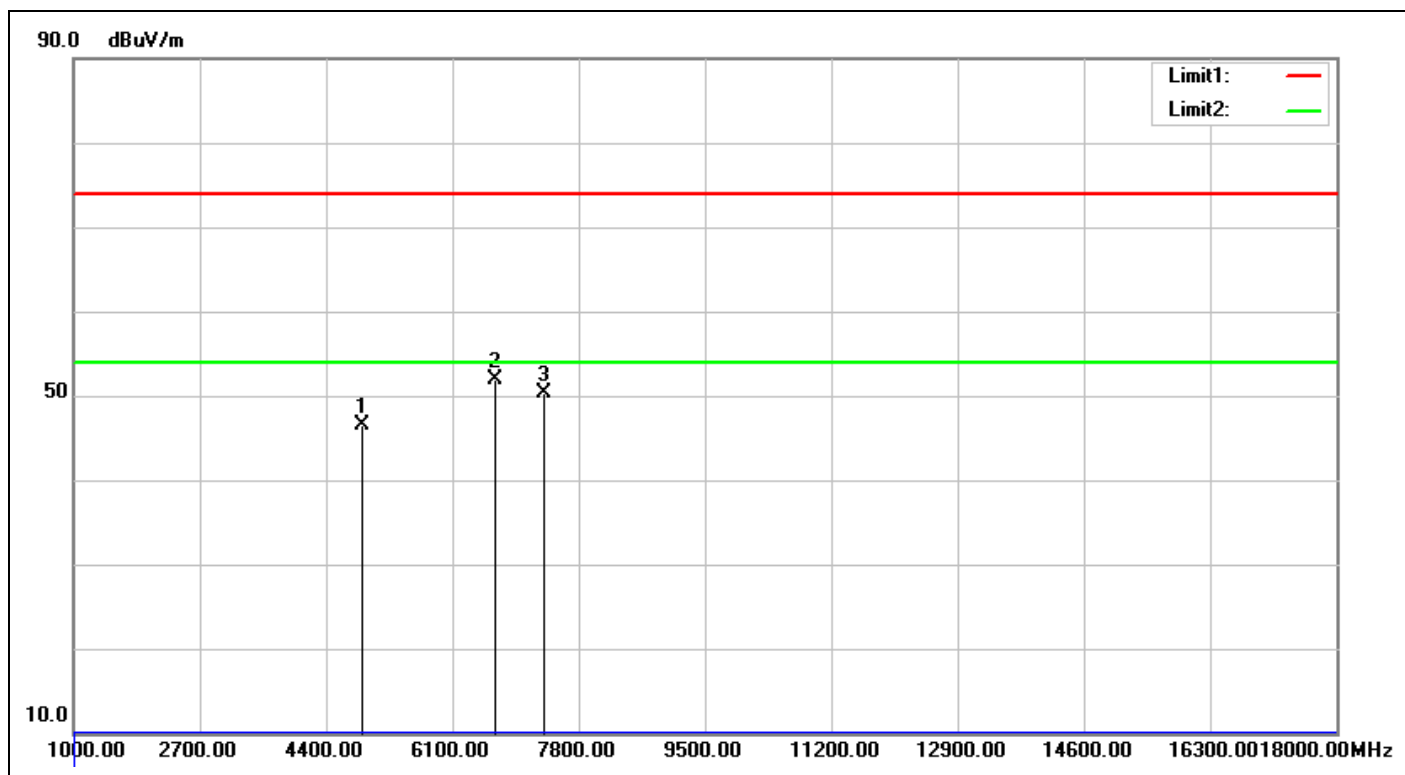
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 16:24:20
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.28	50.54	48.26	74.00	-25.74	peak		0	
2	6100.000	4.51	47.28	51.79	74.00	-22.21	peak	300	279	
3	7206.000	5.77	44.80	50.57	74.00	-23.43	peak		0	



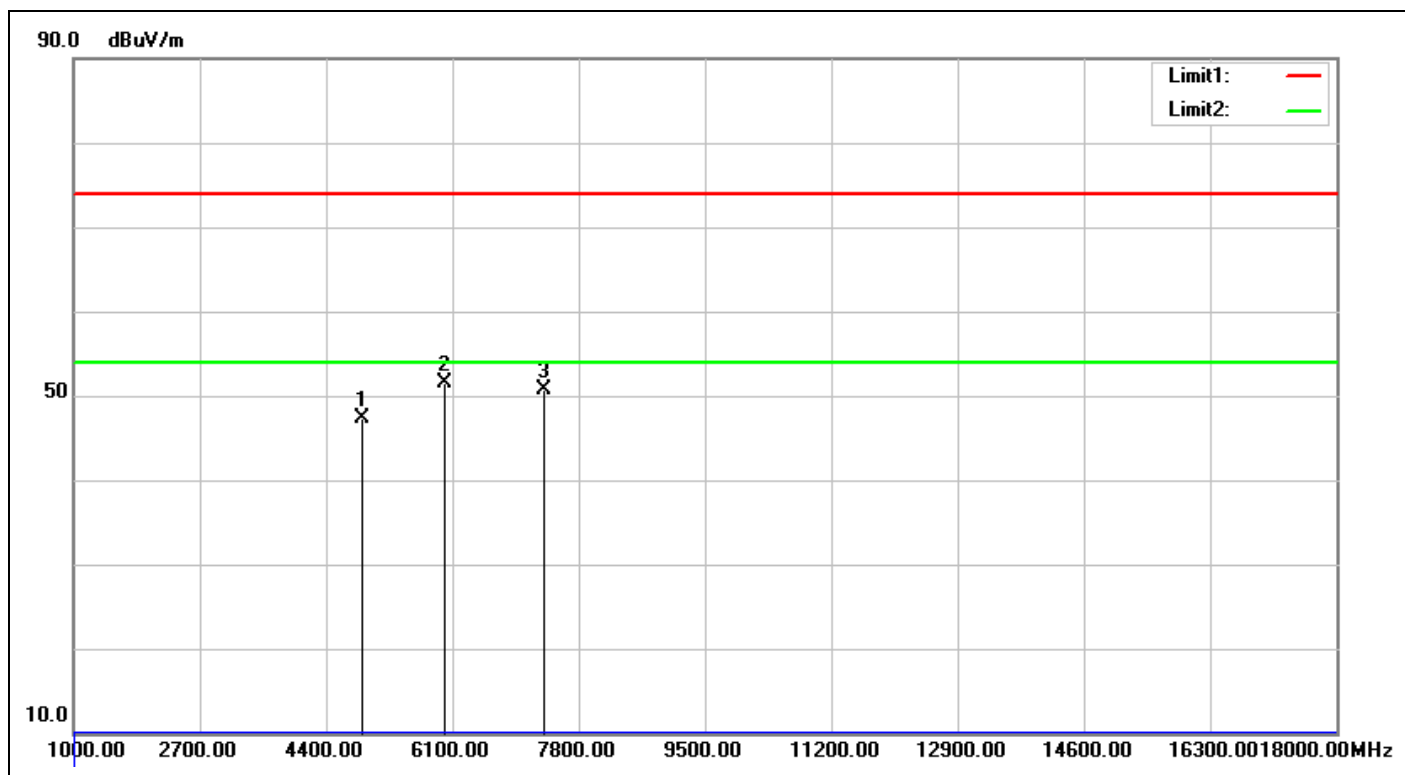
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 16:25:23
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.28	52.83	50.55	74.00	-23.45	peak			
2	6032.000	4.26	46.94	51.20	74.00	-22.80	peak	300	335	
3	7206.000	5.77	44.55	50.32	74.00	-23.68	peak			



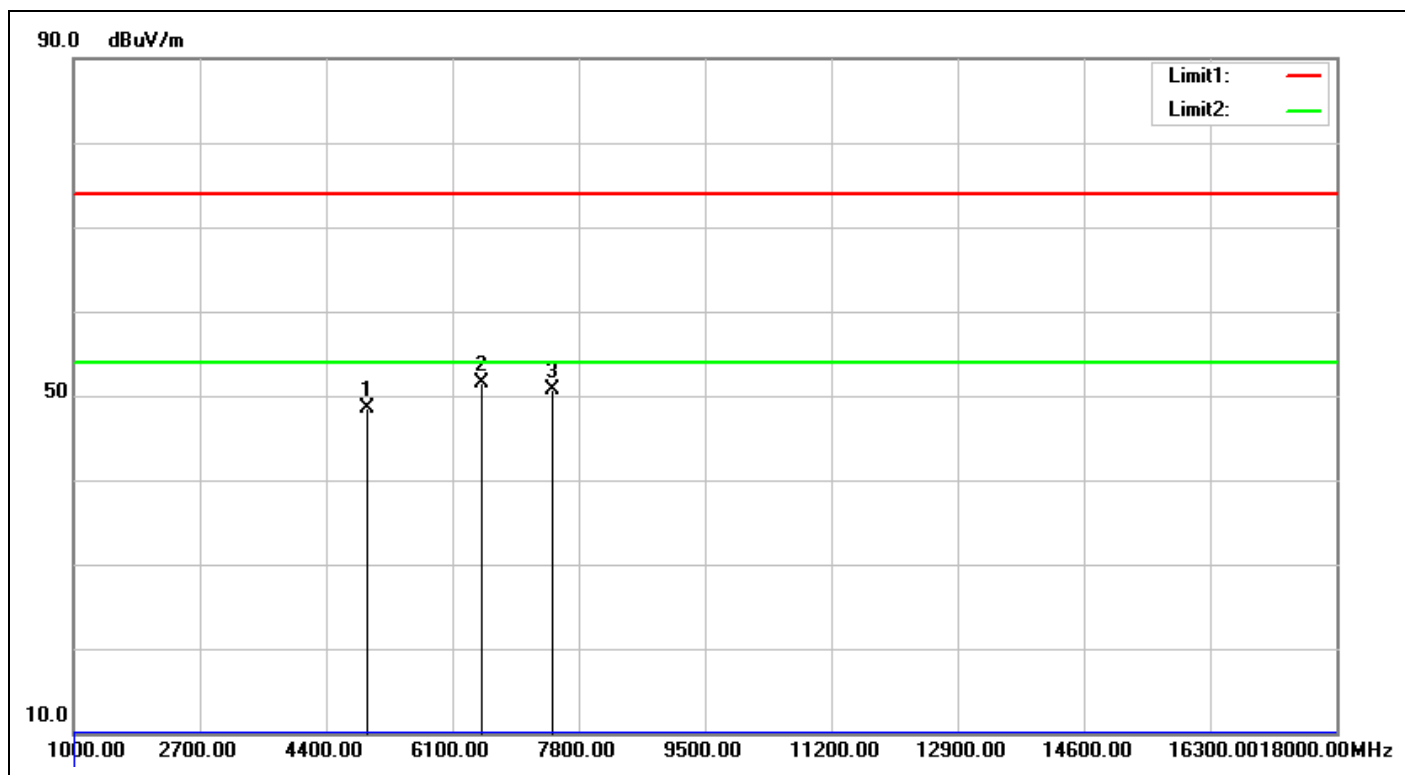
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 16:30:17
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%)	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4880.000	-2.10	48.66	46.56	74.00	-27.44	peak			
2	6678.000	5.72	46.09	51.81	74.00	-22.19	peak	300	233	
3	7320.000	6.10	44.24	50.34	74.00	-23.66	peak			



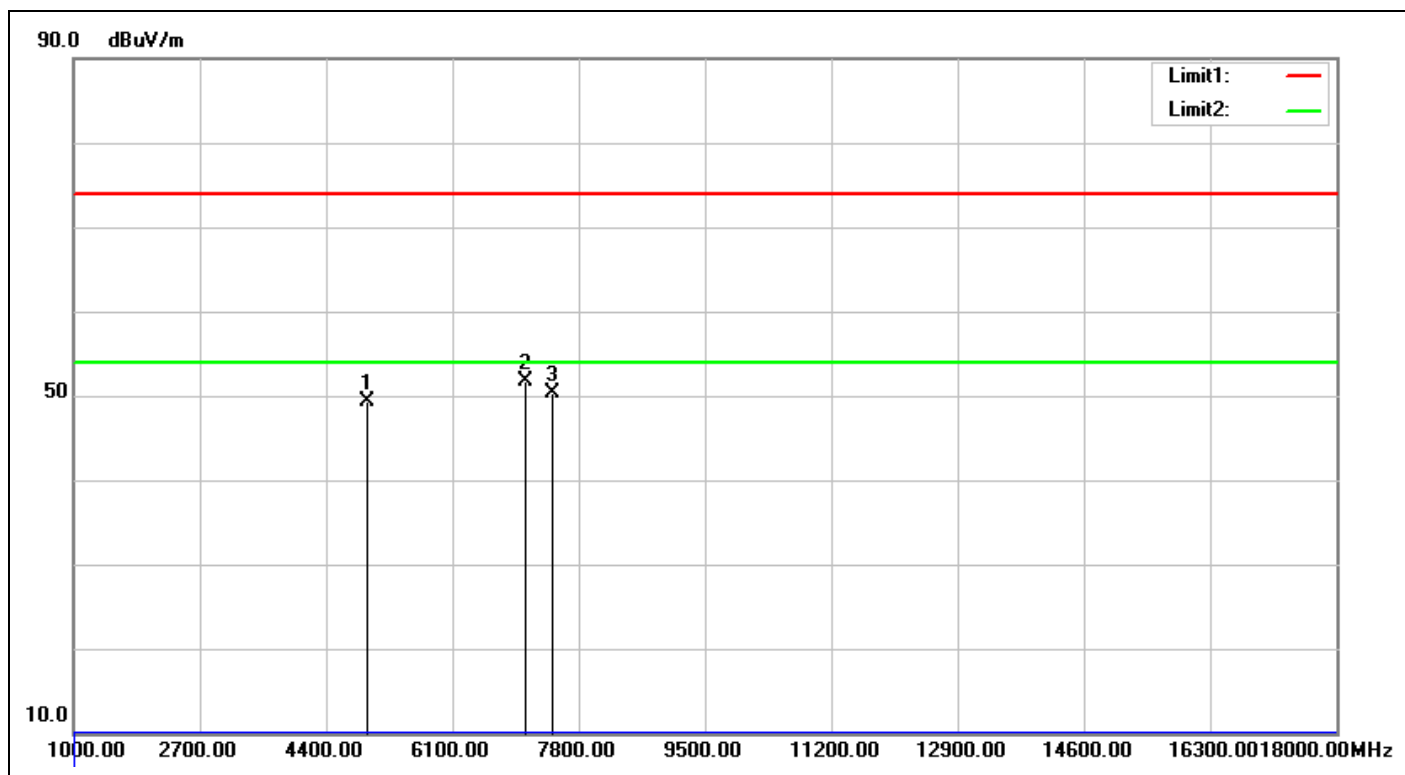
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 16:31:20
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4880.000	-2.10	49.34	47.24	74.00	-26.76	peak			
2	5998.000	4.12	47.43	51.55	74.00	-22.45	peak	300	246	
3	7320.000	6.10	44.57	50.67	74.00	-23.33	peak			



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 16:36:25
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%)	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	50.46	48.55	74.00	-25.45	peak			
2	6491.000	5.99	45.58	51.57	74.00	-22.43	peak	300	241	
3	7440.000	6.44	44.28	50.72	74.00	-23.28	peak			



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 16:37:28
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%)	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	51.21	49.30	74.00	-24.70	peak			
2	7086.000	5.42	46.33	51.75	74.00	-22.25	peak	300	91	
3	7440.000	6.44	43.92	50.36	74.00	-23.64	peak			

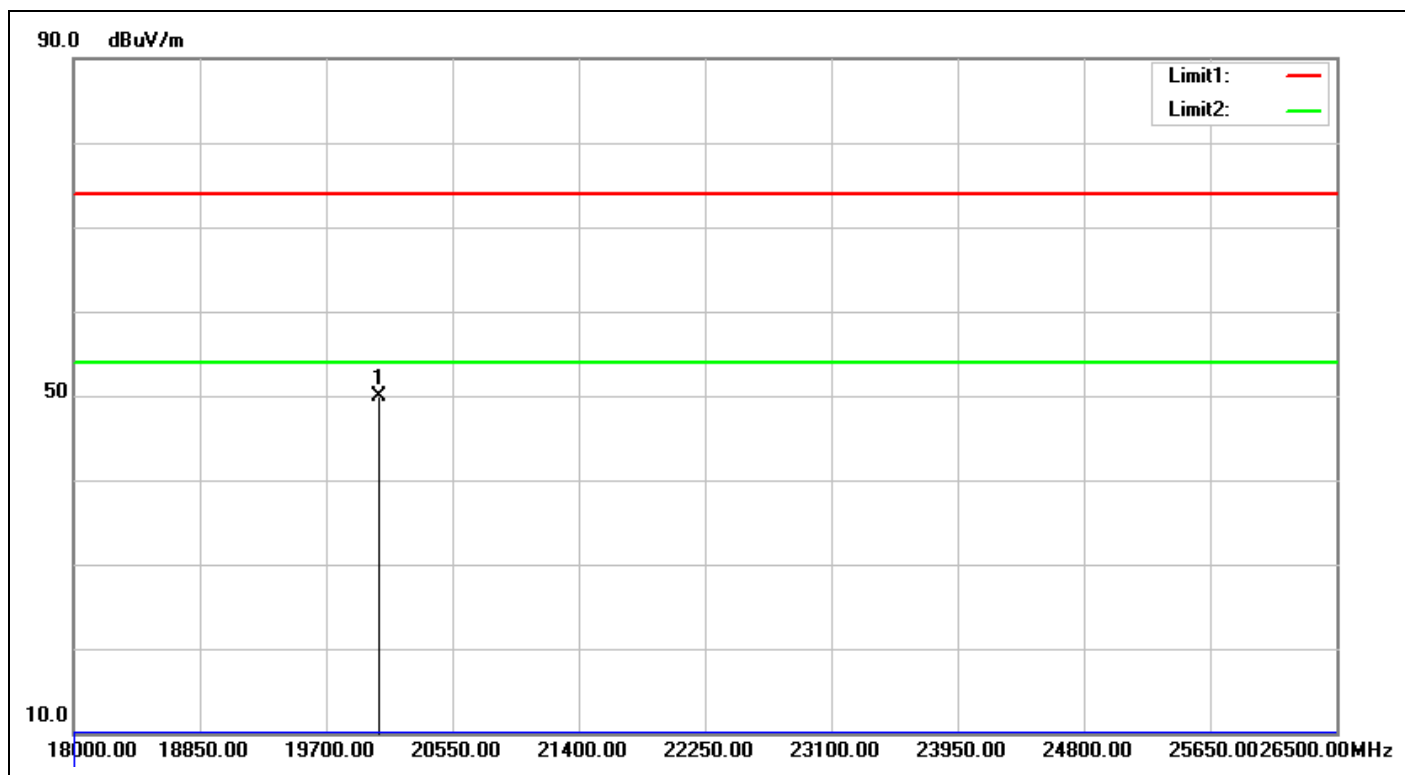
Spurious Emissions, TX Mode, 18-26G



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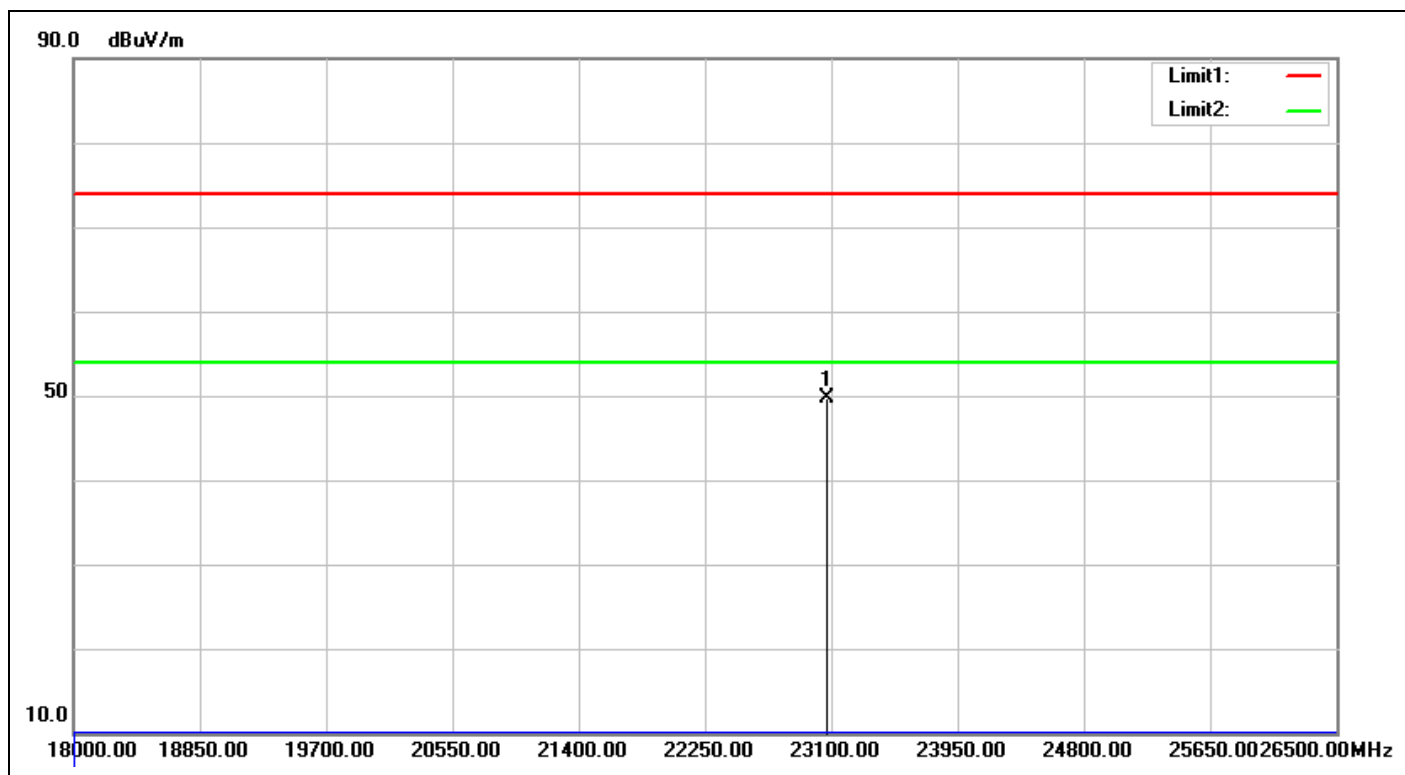
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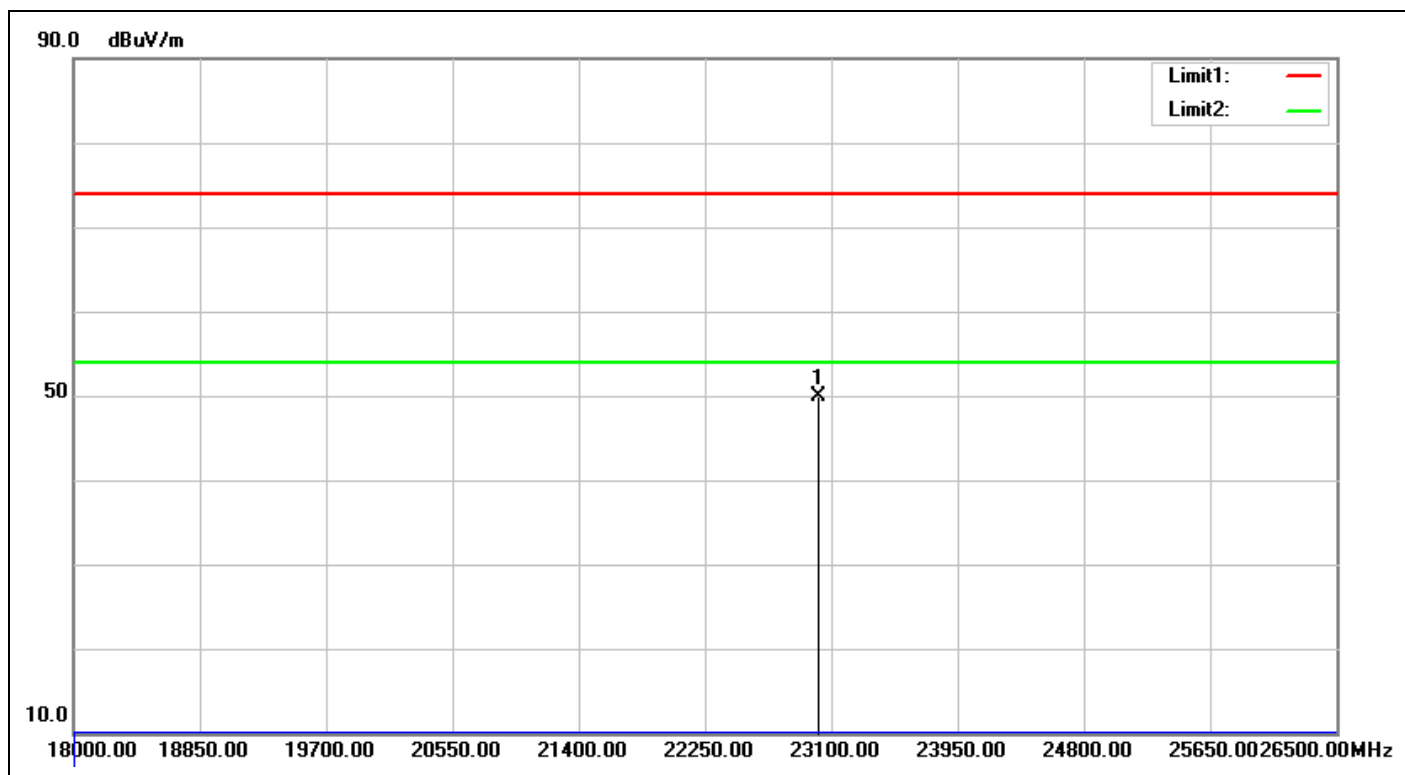
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Test item:	Radiation Emission	Test Time:	2015/12/16 17:01:15
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20057.000	29.60	20.24	49.84	74.00	-24.16	peak		0	



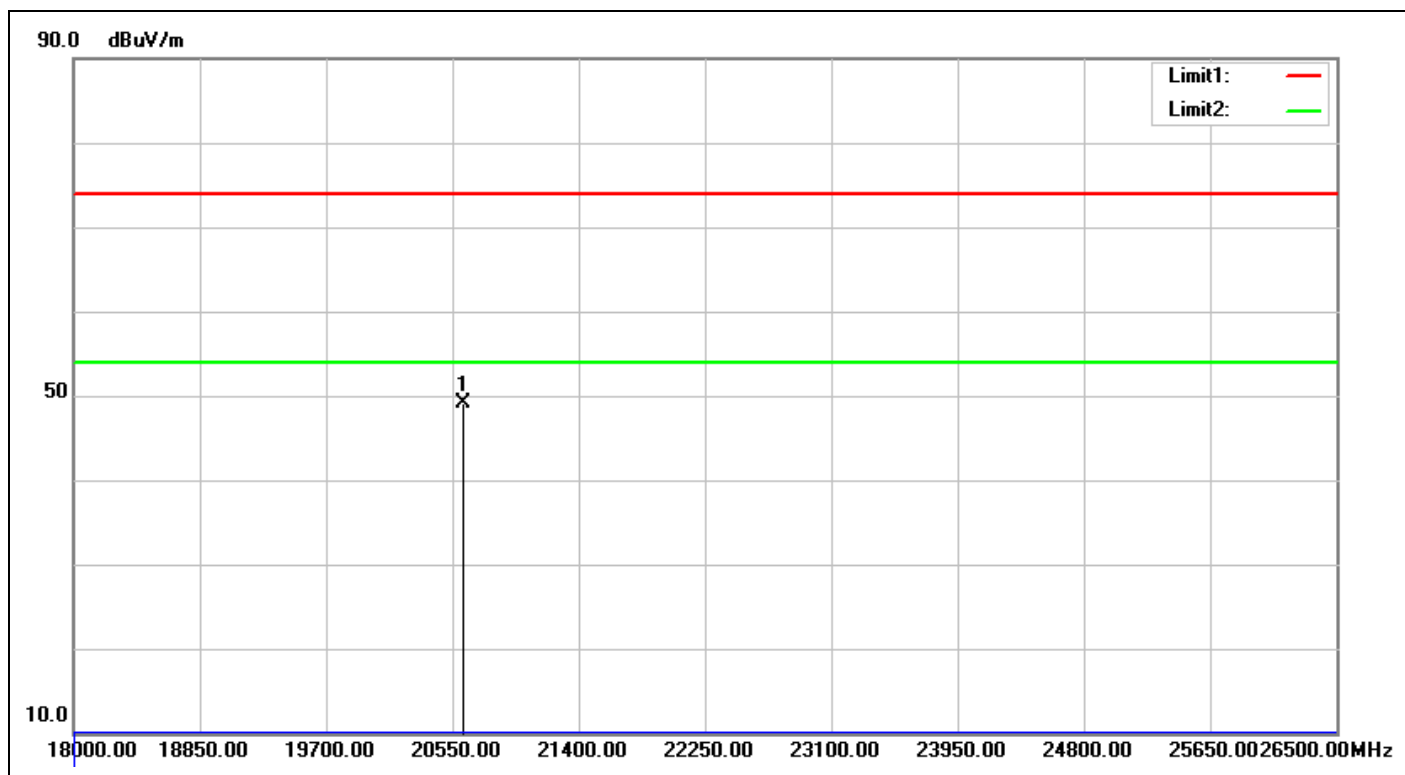
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 17:01:24
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23074.500	30.42	19.28	49.70	74.00	-24.30	peak			



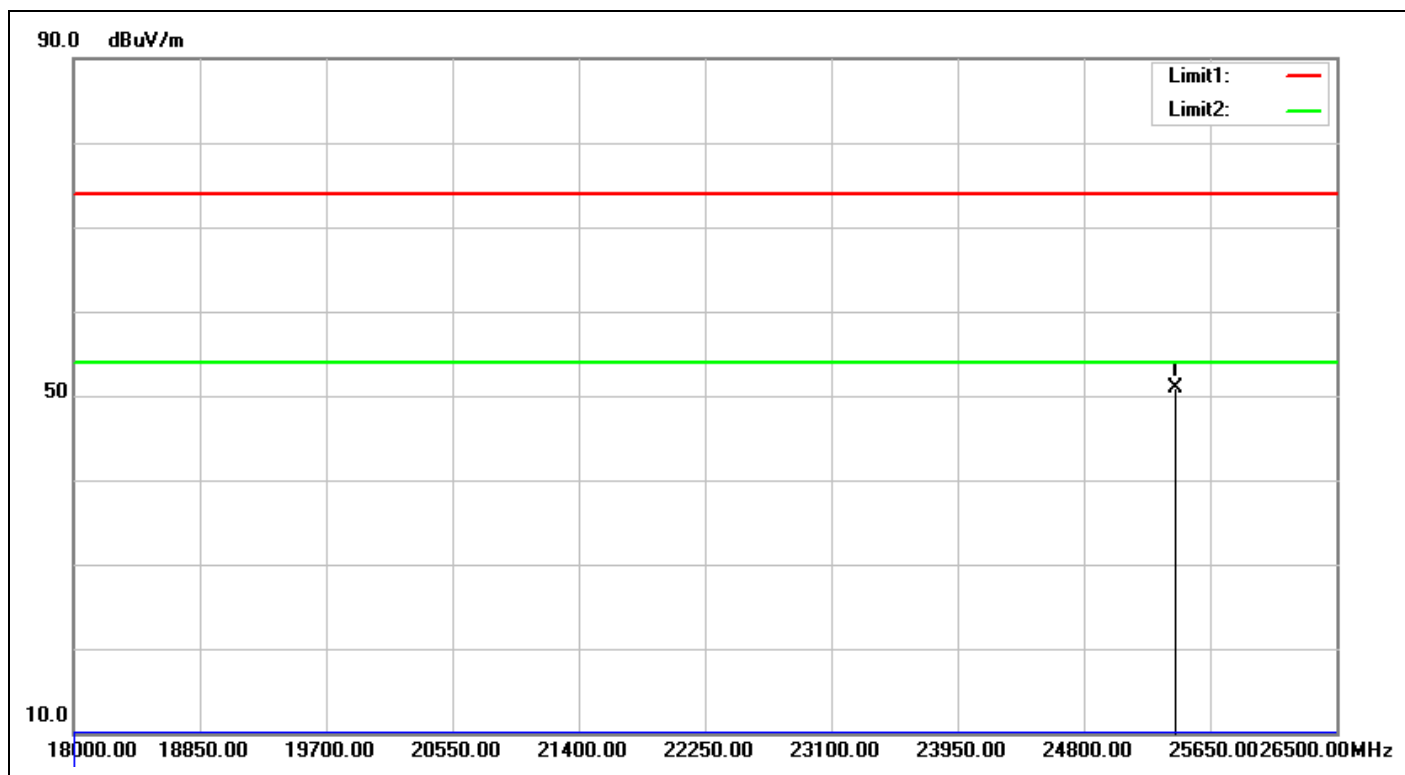
Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 17:01:38
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23015.000	30.47	19.44	49.91	74.00	-24.09	peak			



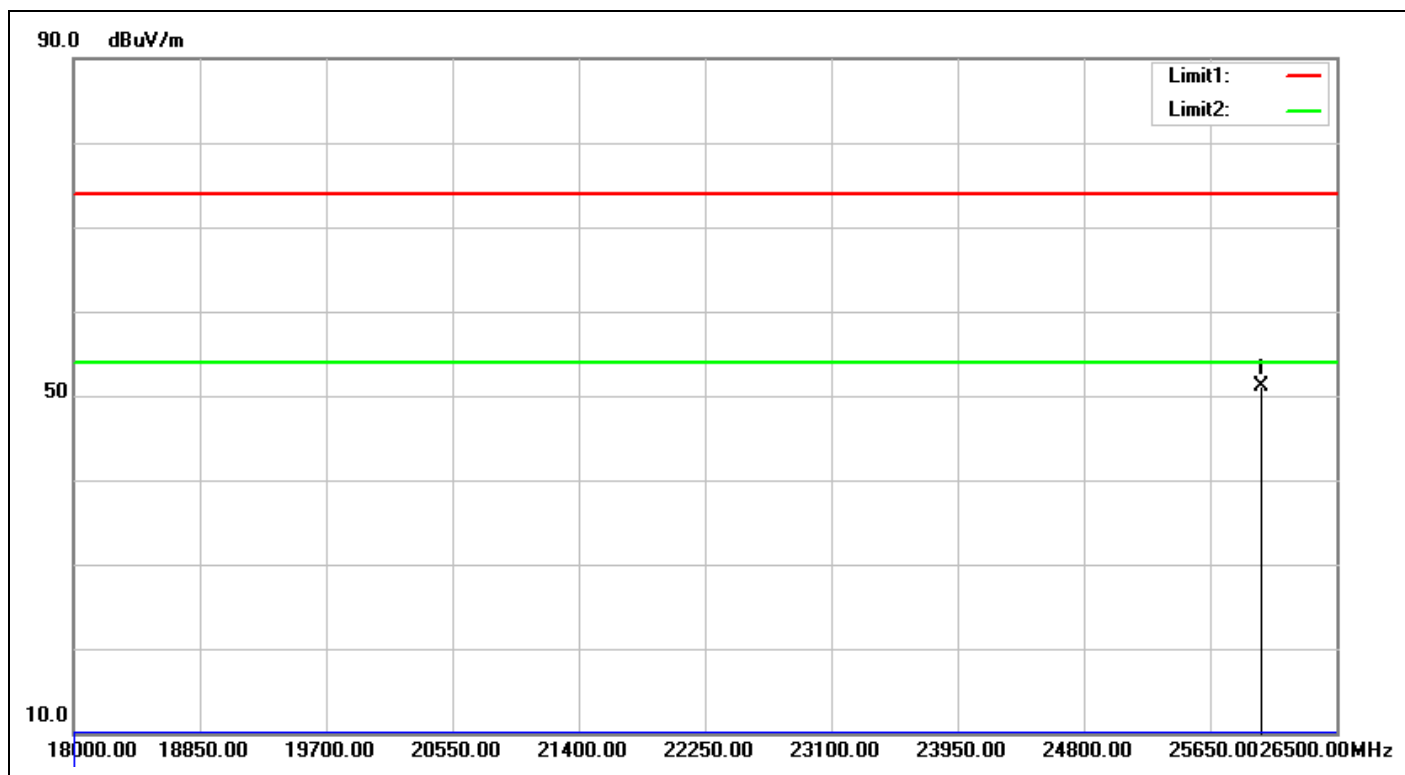
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 17:01:46
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20626.500	29.89	19.28	49.17	74.00	-24.83	peak			



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 17:02:03
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25412.000	31.70	19.15	50.85	74.00	-23.15	peak			



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 17:02:15
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25998.500	32.46	18.74	51.20	74.00	-22.80	peak			

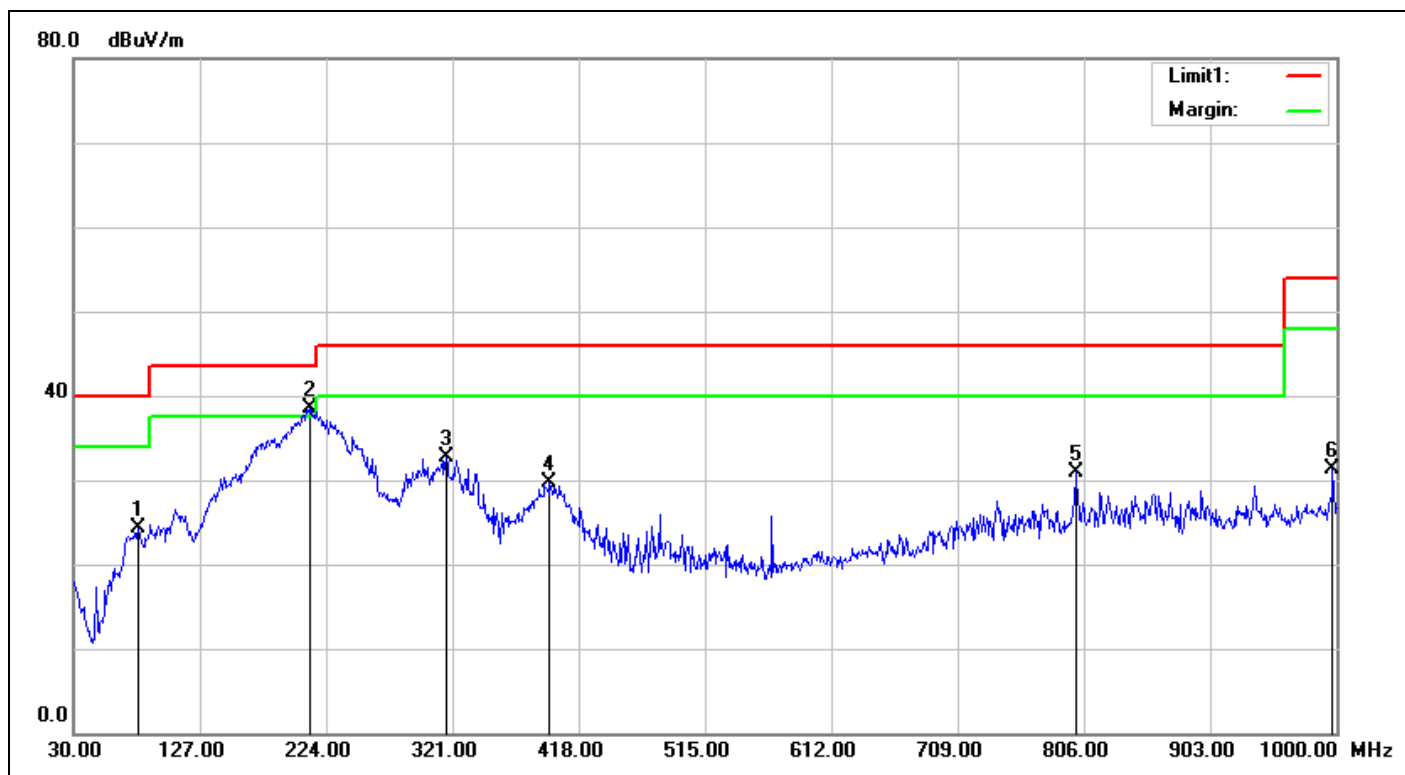
Spurious Emissions, TX Mode, 30M-1G



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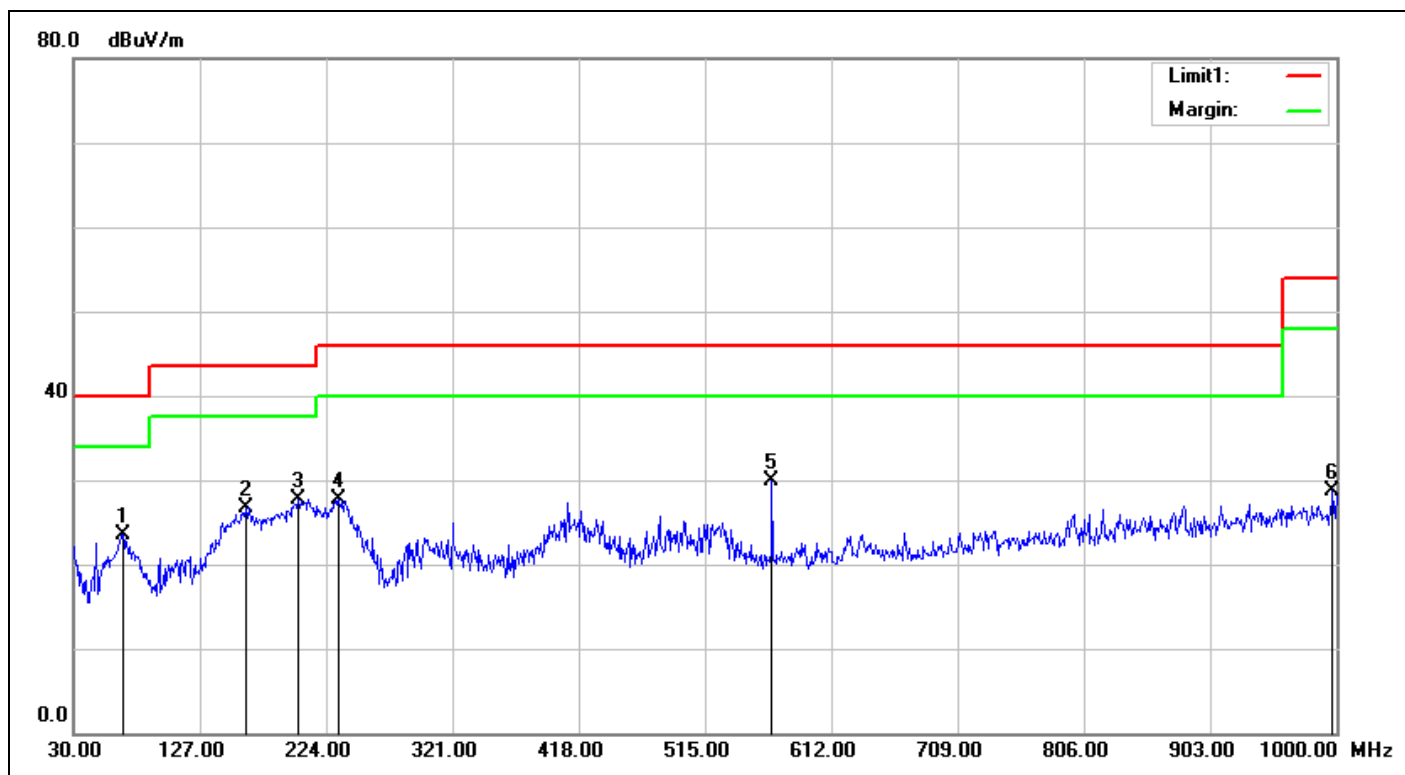
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Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 18:37:06
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	79.4699	-17.79	42.04	24.25	40.00	-15.75	QP	100	336	
2	211.3899	-14.45	52.86	38.41	43.50	-5.09	QP	100	192	
3	316.1499	-10.13	42.78	32.65	46.00	-13.35	QP	100	227	
4	395.6899	-8.73	38.51	29.78	46.00	-16.22	QP	100	83	
5	800.1799	-3.69	34.58	30.89	46.00	-15.11	QP	100	232	
6	997.0900	-0.03	31.43	31.40	54.00	-22.60	QP	100	70	



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 18:38:09
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%)	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	67.8300	-19.02	42.58	23.56	40.00	-16.44	QP	100	110	
2	161.9200	-14.06	40.67	26.61	43.50	-16.89	QP	100	235	
3	202.6600	-14.67	42.43	27.76	43.50	-15.74	QP	100	237	
4	233.7000	-13.25	40.88	27.63	46.00	-18.37	QP	100	224	
5	566.4099	-6.66	36.57	29.91	46.00	-16.09	QP	100	131	
6	997.0900	-0.03	28.77	28.74	54.00	-25.26	QP	100	298	

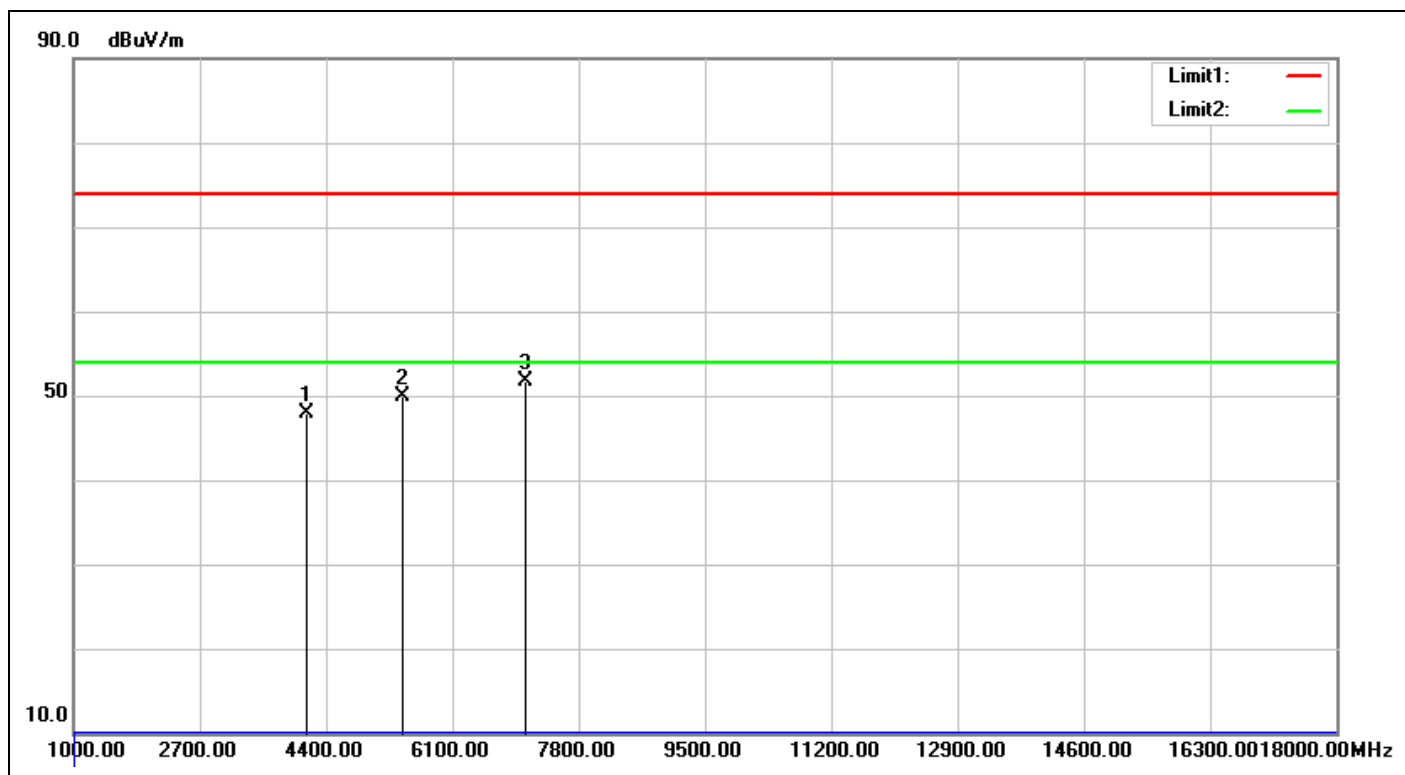
Spurious Emissions, RX Mode, 1-18G



TUV Taiwan

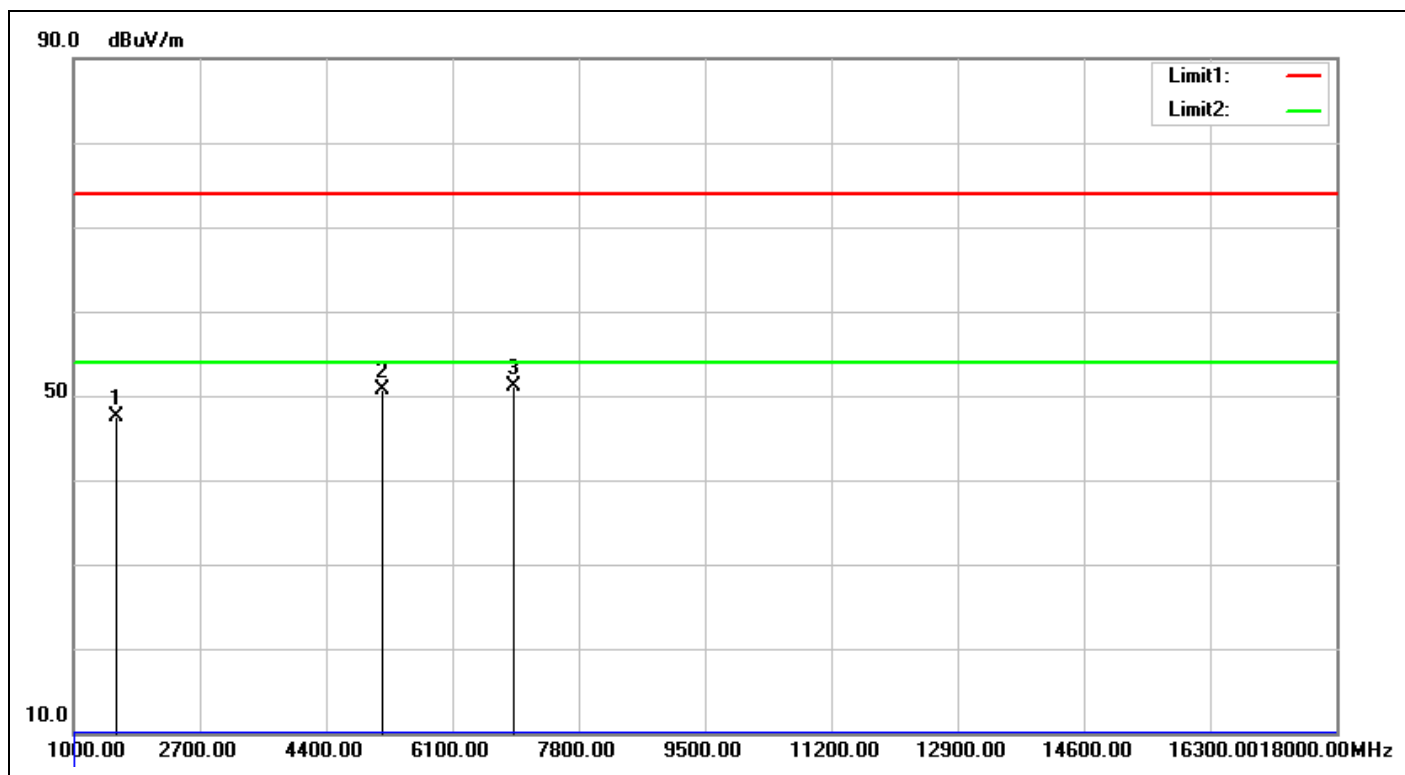
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 16:42:19
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%)	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4145.000	-4.49	52.31	47.82	74.00	-26.18	peak	100	161	
2	5420.000	0.41	49.56	49.97	74.00	-24.03	peak	100	175	
3	7086.000	5.42	46.37	51.79	74.00	-22.21	peak	300	192	



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 16:43:22
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%)	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1578.000	-9.74	57.31	47.57	74.00	-26.43	peak	100	271	
2	5148.000	-1.02	51.63	50.61	74.00	-23.39	peak	100	193	
3	6933.000	5.30	45.82	51.12	74.00	-22.88	peak	300	290	

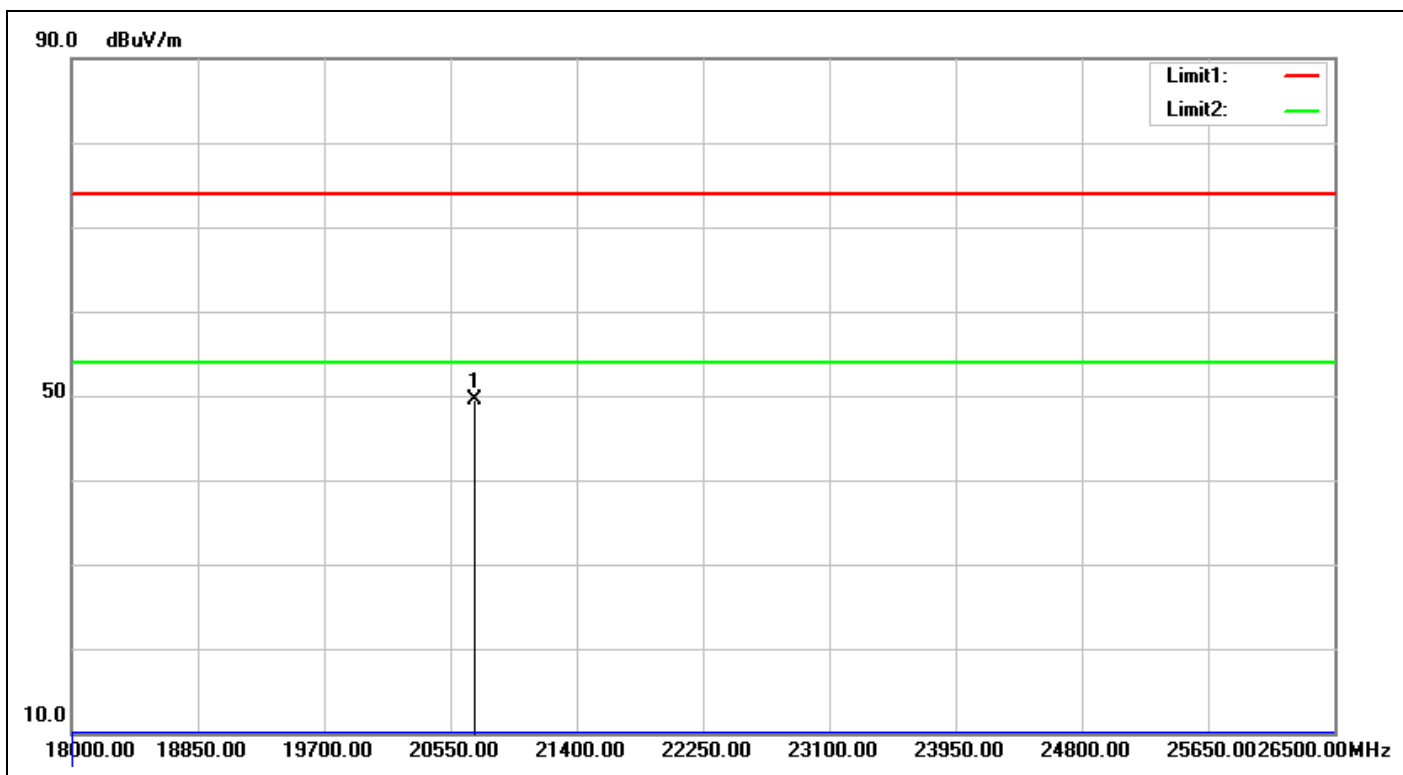
Spurious Emissions, RX Mode, 18-26G



TUV Taiwan

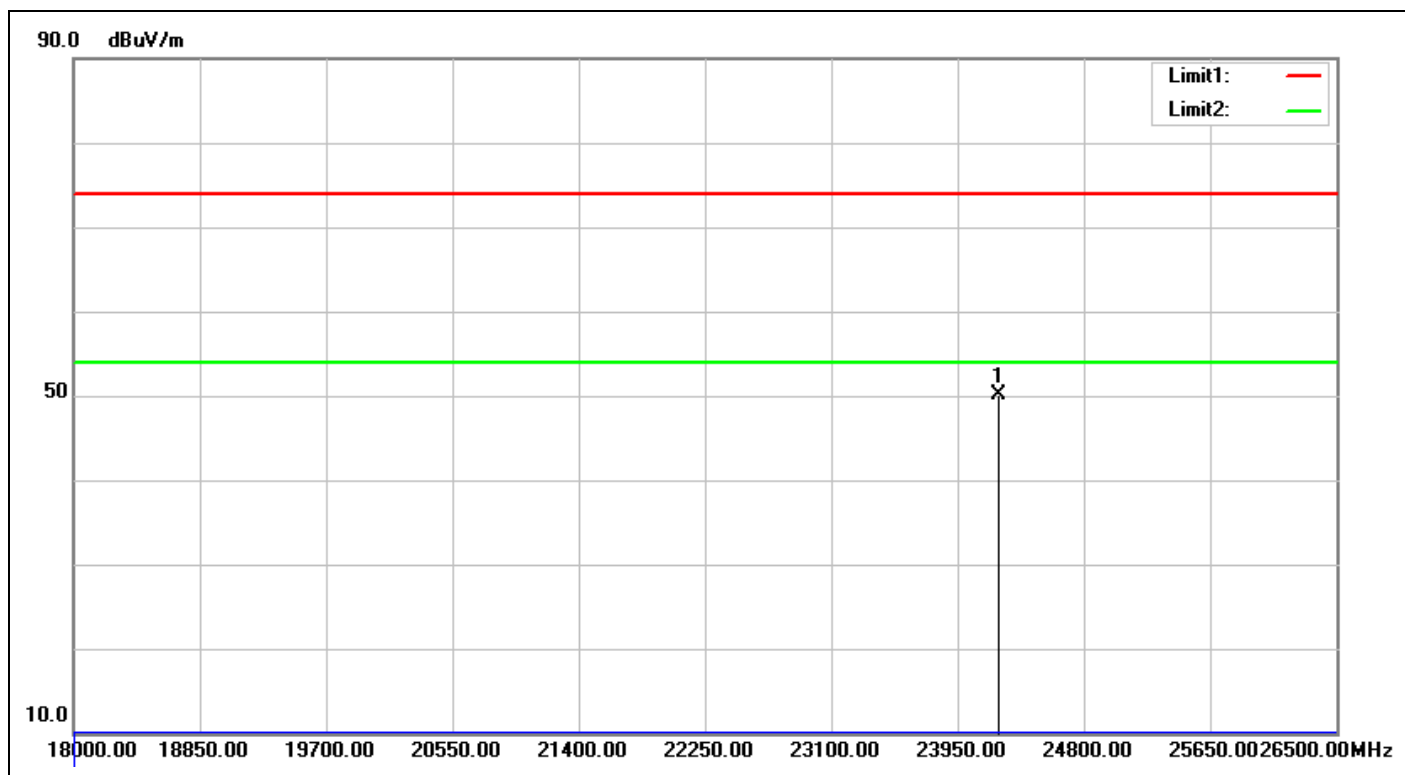
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 17:00:03
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20711.500	29.90	19.61	49.51	74.00	-24.49	peak		0	



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 17:00:12
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%)	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24222.000	30.01	20.05	50.06	74.00	-23.94	peak			

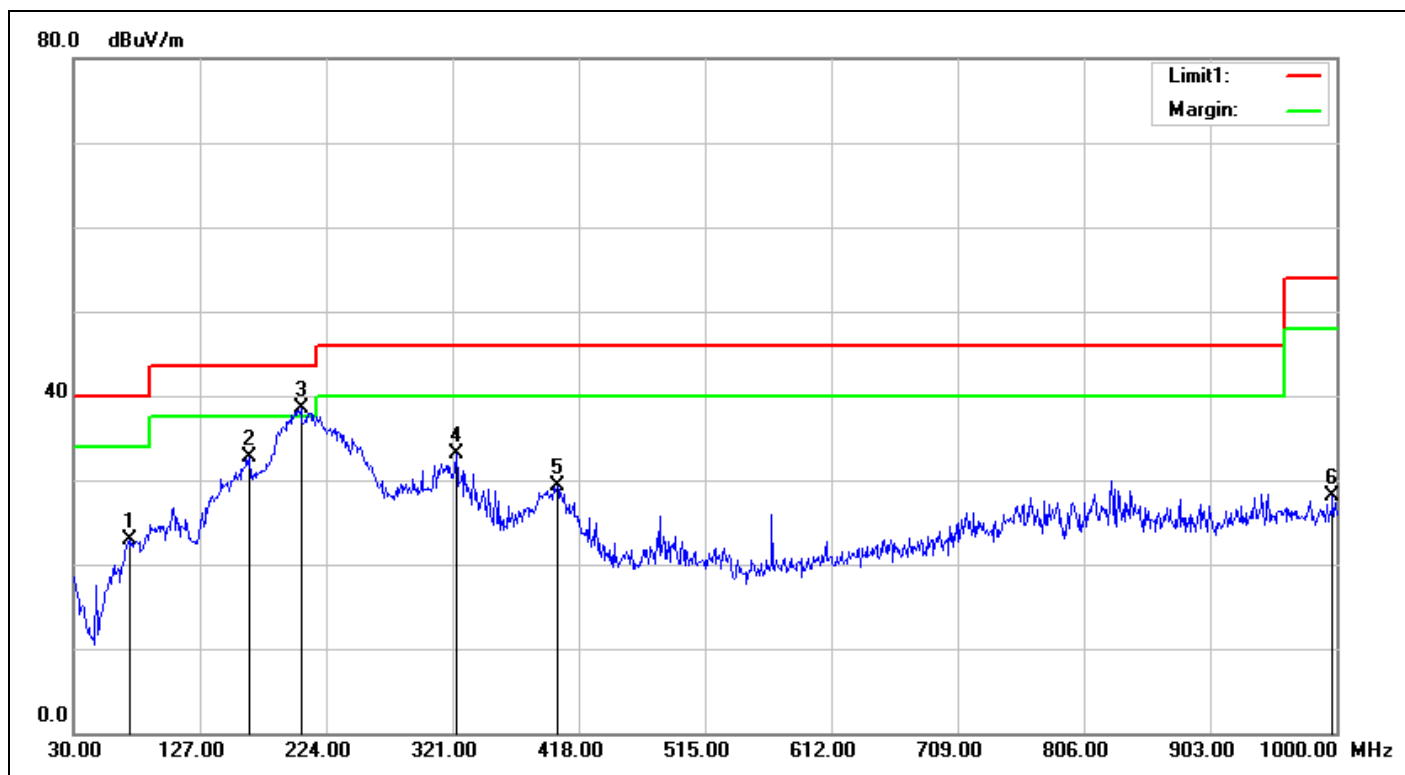
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

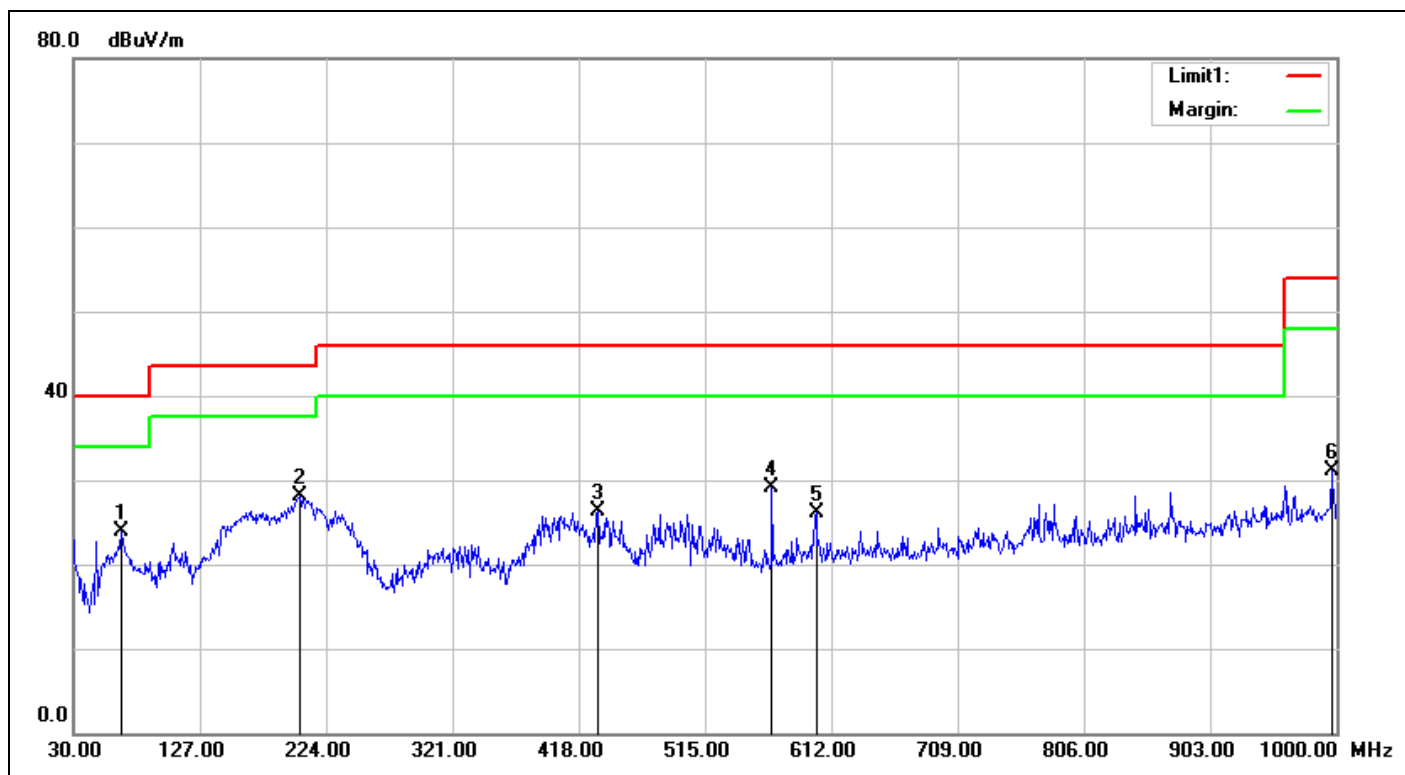
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/12/16 18:45:03
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%):	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

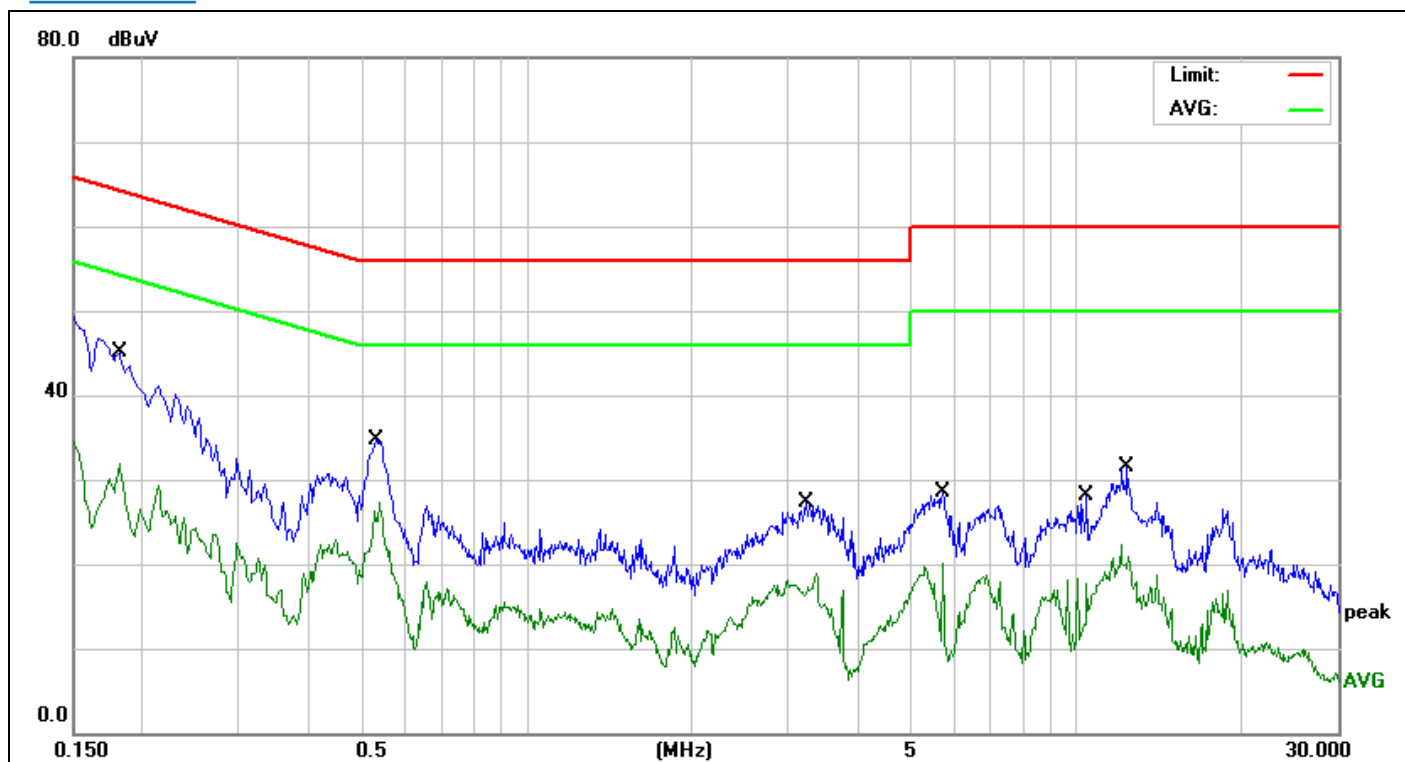
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	72.6800	-18.53	41.34	22.81	40.00	-17.19	QP	100	338	
2	164.8300	-14.33	47.10	32.77	43.50	-10.73	QP	100	179	
3	204.5999	-14.63	53.04	38.41	43.50	-5.09	QP	100	192	
4	323.9100	-9.96	42.99	33.03	46.00	-12.97	QP	100	309	
5	401.5099	-8.66	38.00	29.34	46.00	-16.66	QP	100	69	
6	997.0900	-0.03	28.15	28.12	54.00	-25.88	QP	100	94	



Service No.:	114043931-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/12/16 18:46:07
Applicant:	Allton	Test Rating:	DC 5V
Product:	藍芽照度計 / Rainbow Eye	Temp.(°C)/Hum.(%)	21.3(°C)/60%
Model No.:	Rainbow Eye	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	66.8600	-19.11	42.93	23.82	40.00	-16.18	QP	100	128	
2	203.6300	-14.65	42.70	28.05	43.50	-15.45	QP	100	234	
3	432.5500	-8.26	34.54	26.28	46.00	-19.72	QP	100	226	
4	566.4099	-6.66	35.74	29.08	46.00	-16.92	QP	100	144	
5	600.3600	-5.99	32.12	26.13	46.00	-19.87	QP	100	304	
6	996.1200	-0.03	31.06	31.03	54.00	-22.97	QP	100	320	

Mains Spurious Emissions



Service No.: 114043931

Test Standard: NCC Class B Conduction(QP)

Probe: L1

Test item: Conduction Emission

Test Time: 2015/12/16 22:25:14

Applicant: Allton

Test Rating: DC 5V

Product: 藍芽照度計 / Rainbow Eye

Temp.(°C)/Hum.(%): 21.2(°C)/52%

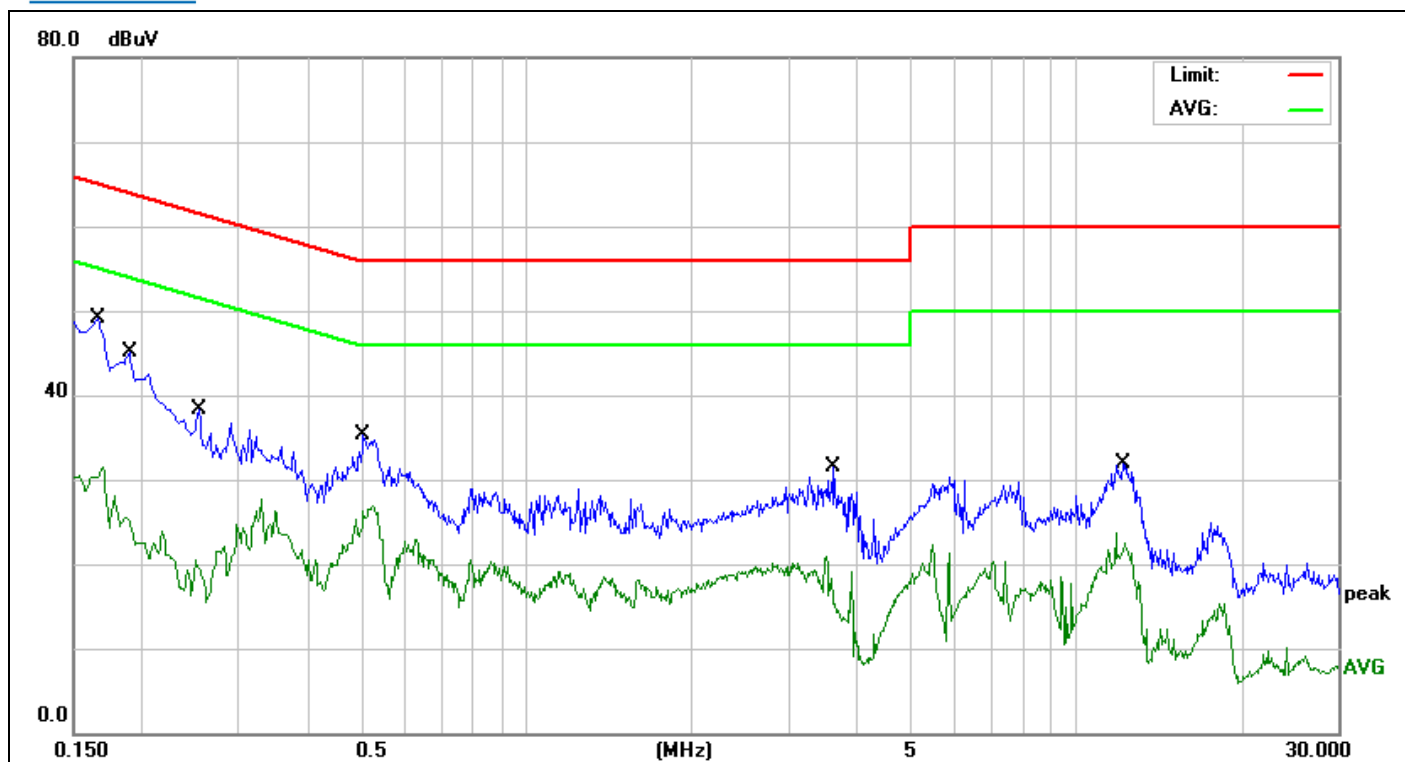
Model No.: Rainbow Eye

Test Engineer: George Yang

Test Mode: Normal operation

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1819	9.63	30.56	40.19	64.39	-24.20	QP	
2	0.1819	9.63	13.91	23.54	54.39	-30.85	AVG	
3	0.5340	9.63	22.16	31.79	56.00	-24.21	QP	
4	0.5340	9.63	15.64	25.27	46.00	-20.73	AVG	
5	3.2380	9.67	11.45	21.12	56.00	-34.88	QP	
6	3.2380	9.67	6.01	15.68	46.00	-30.32	AVG	
7	5.7259	9.69	9.98	19.67	60.00	-40.33	QP	
8	5.7259	9.69	-1.35	8.34	50.00	-41.66	AVG	
9	10.4819	9.77	8.32	18.09	60.00	-41.91	QP	
10	10.4819	9.77	3.34	13.11	50.00	-36.89	AVG	
11	12.4019	9.79	13.99	23.78	60.00	-36.22	QP	
12	12.4019	9.79	8.68	18.47	50.00	-31.53	AVG	



Service No.: 114043931

Test Standard: NCC Class B Conduction(QP)

Probe: N

Test item: Conduction Emission

Test Time: 2015/12/16 22:32:47

Applicant: Allton

Test Rating: DC 5V

Product: 藍芽照度計 / Rainbow Eye

Temp.(°C)/Hum.(%): 21.2(°C)/52%

Model No.: Rainbow Eye

Test Engineer: George Yang

Test Mode: Normal operation

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1660	9.66	32.53	42.19	65.16	-22.97	QP	
2	0.1660	9.66	14.77	24.43	55.16	-30.73	AVG	
3	0.1900	9.65	29.34	38.99	64.04	-25.05	QP	
4	0.1900	9.65	10.37	20.02	54.04	-34.02	AVG	
5	0.2540	9.64	20.94	30.58	61.63	-31.05	QP	
6	0.2540	9.64	6.10	15.74	51.63	-35.89	AVG	
7	0.5060	9.64	19.19	28.83	56.00	-27.17	QP	
8	0.5060	9.64	13.42	23.06	46.00	-22.94	AVG	
9	3.6260	9.69	9.63	19.32	56.00	-36.68	QP	
10	3.6260	9.69	0.59	10.28	46.00	-35.72	AVG	
11	12.2500	9.84	13.19	23.03	60.00	-36.97	QP	
12	12.2500	9.84	7.33	17.17	50.00	-32.83	AVG	