

# Test Report No.50134440 001

## Appendix D: Radiated and Mains Spurious Emission Data

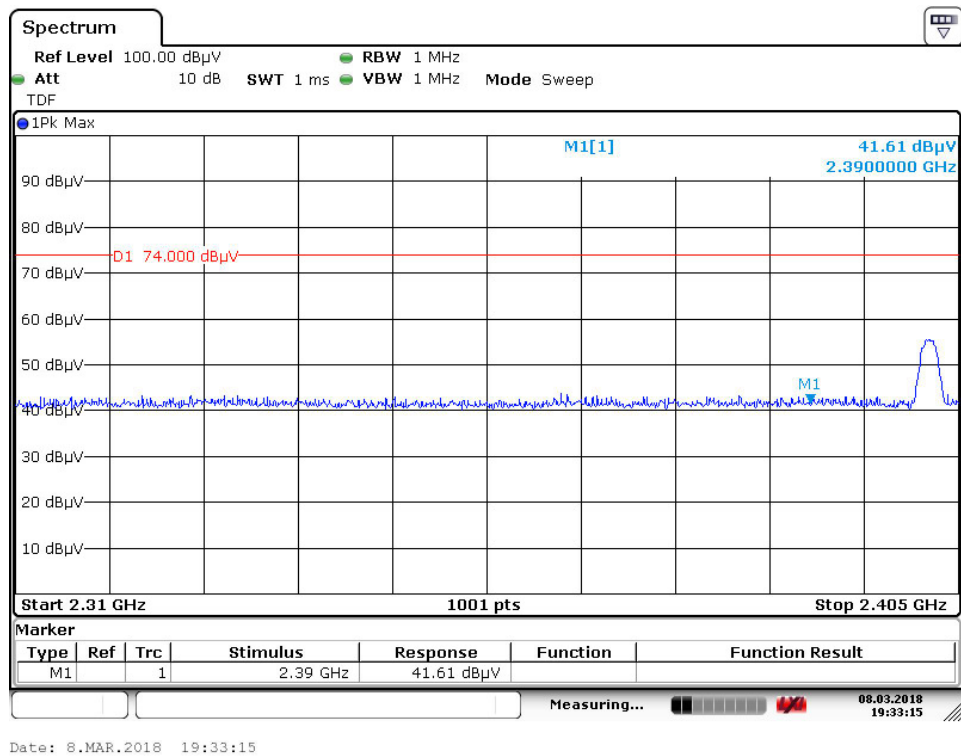
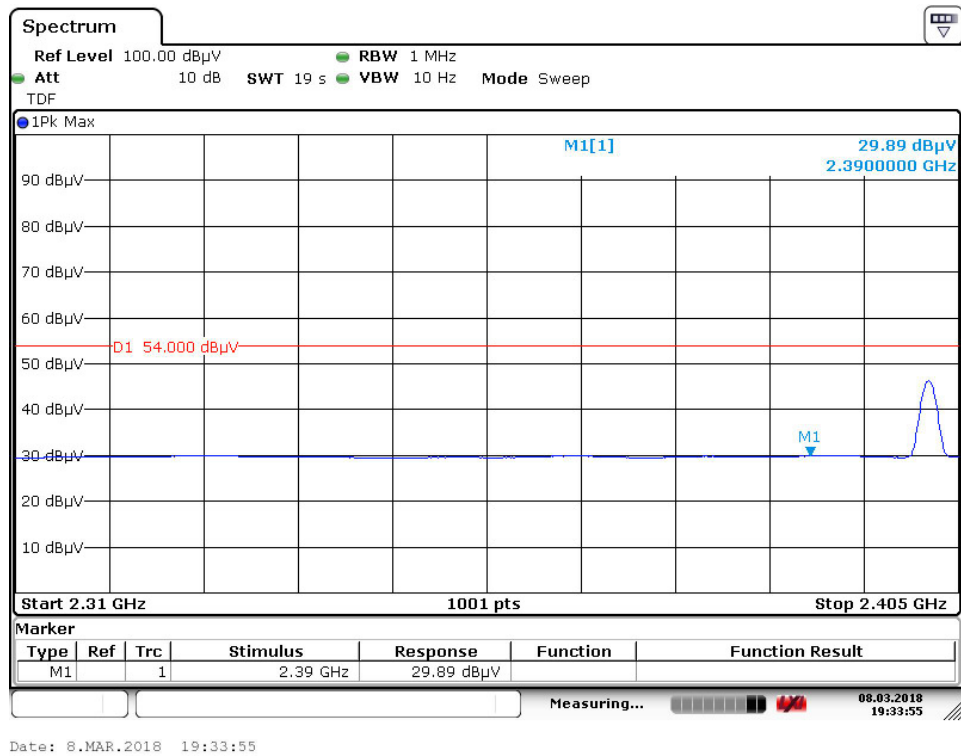
(File: 50134440AppendixD)

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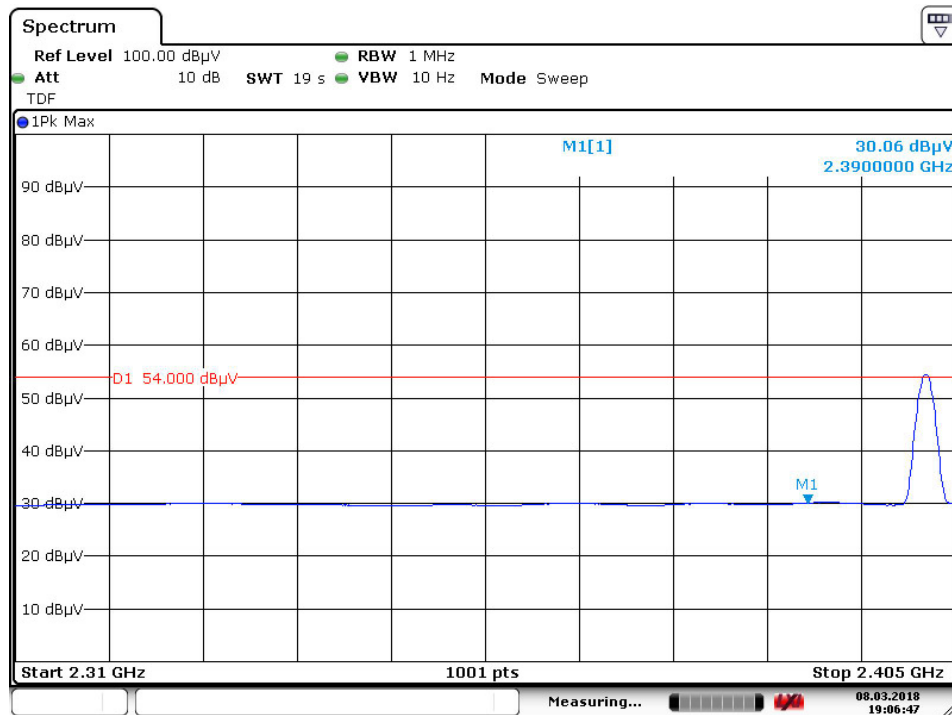
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# Radiated Bandedge (GFSK)

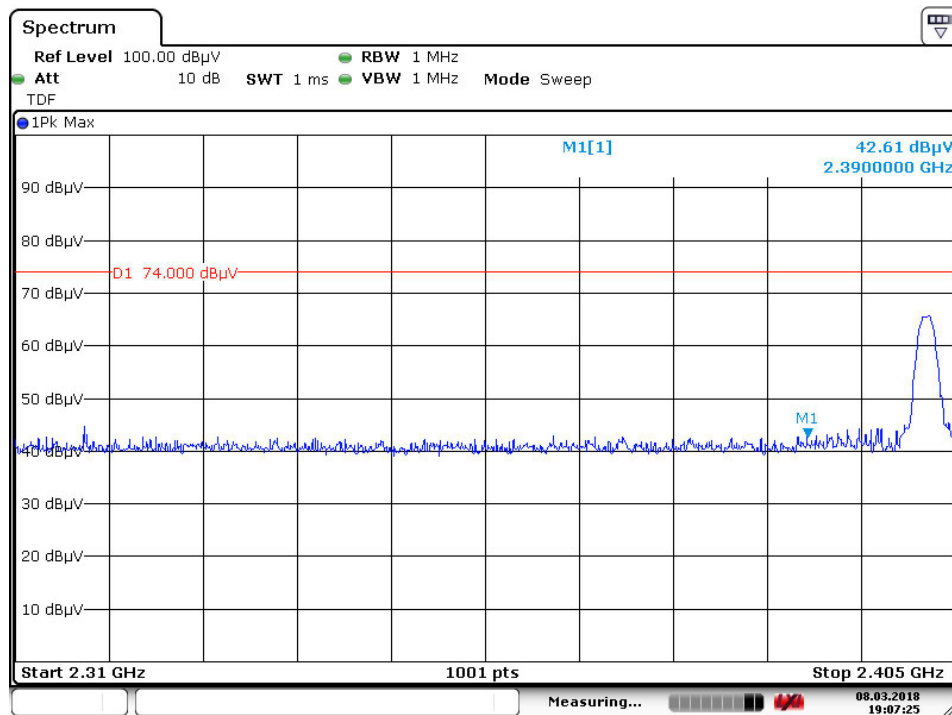
## Low Channel (Hor)



## Low Channel (Ver)



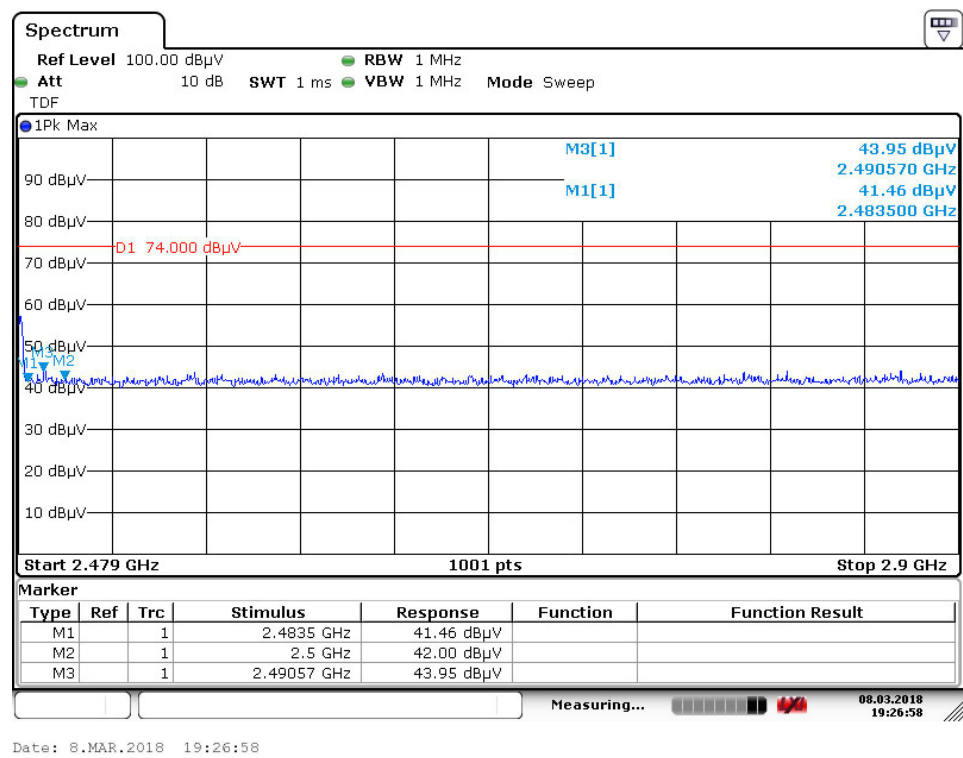
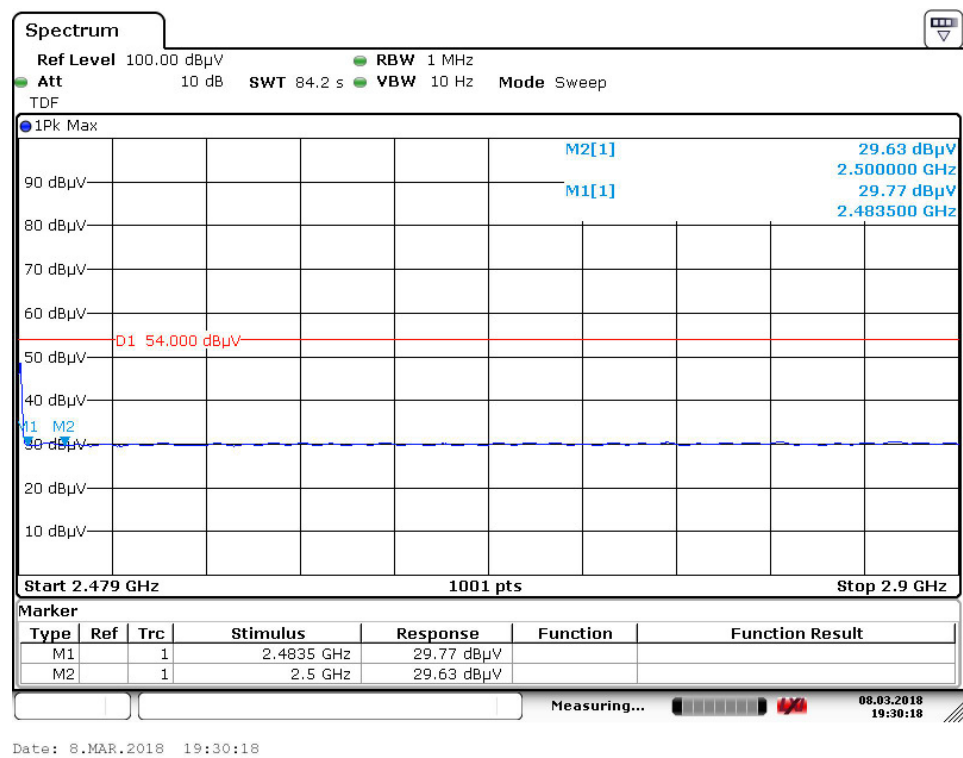
Date: 8.MAR.2018 19:06:47



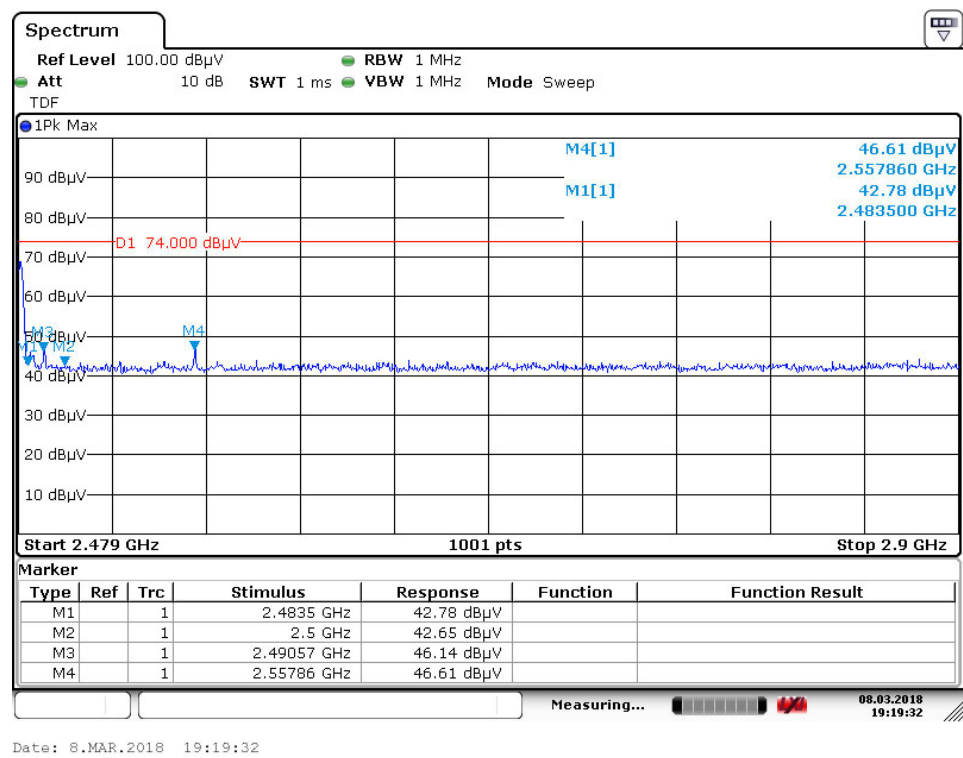
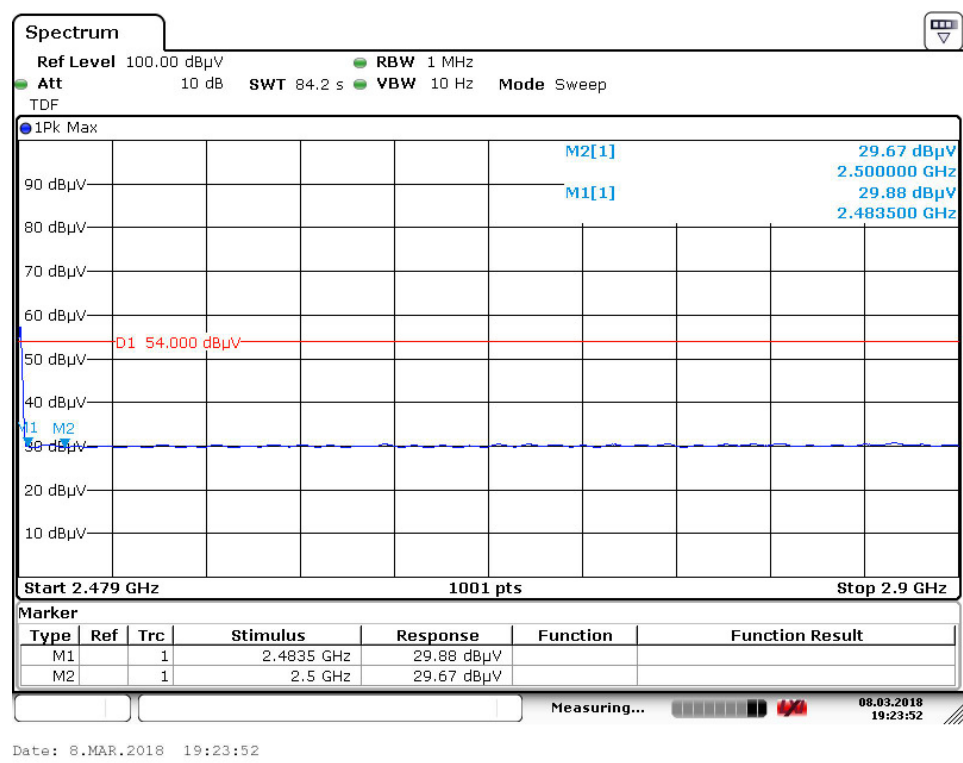
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# Radiated Bandedge (GFSK)

## High Channel (Hor)



High Channel (Ver)



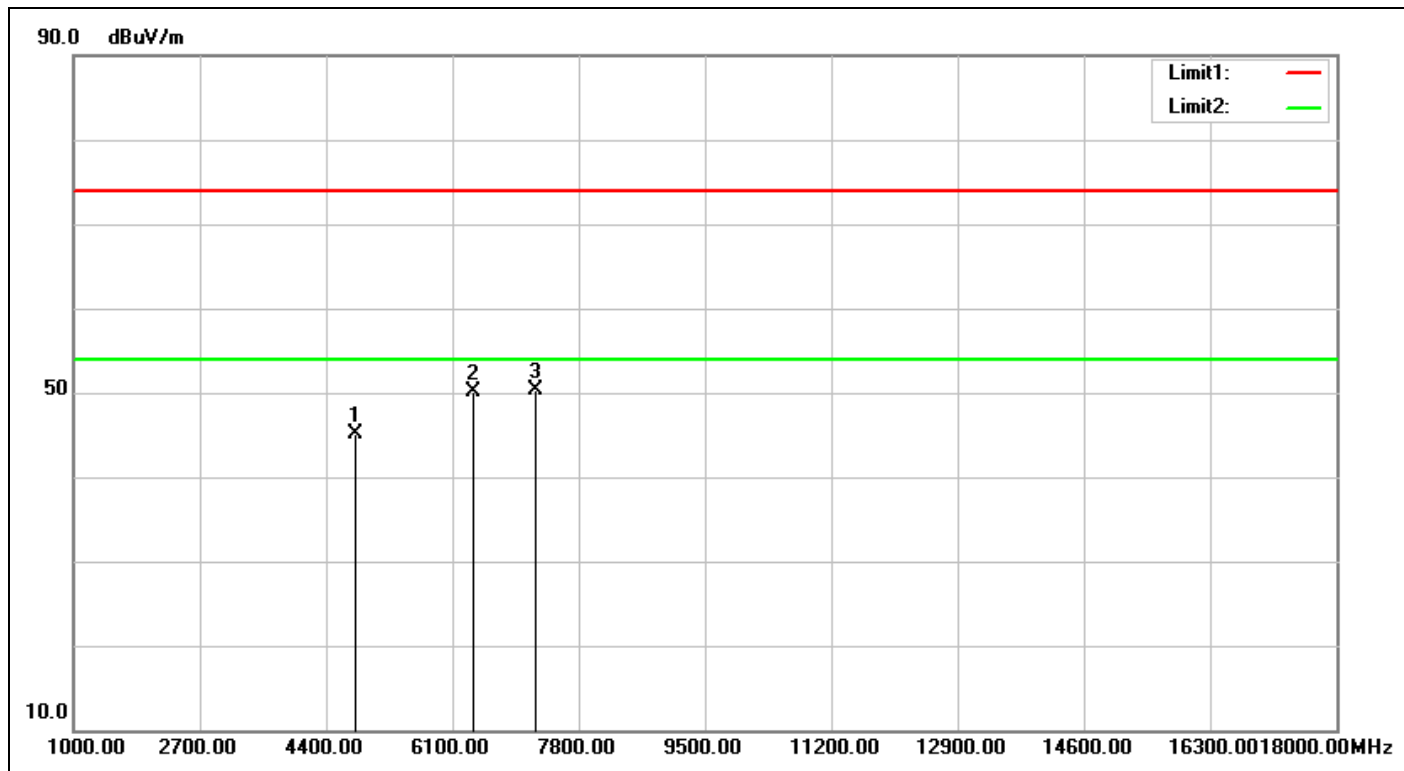
# Spurious Emissions, TX Mode, 1-18G



**TUV Rheinland Taiwan Ltd.**

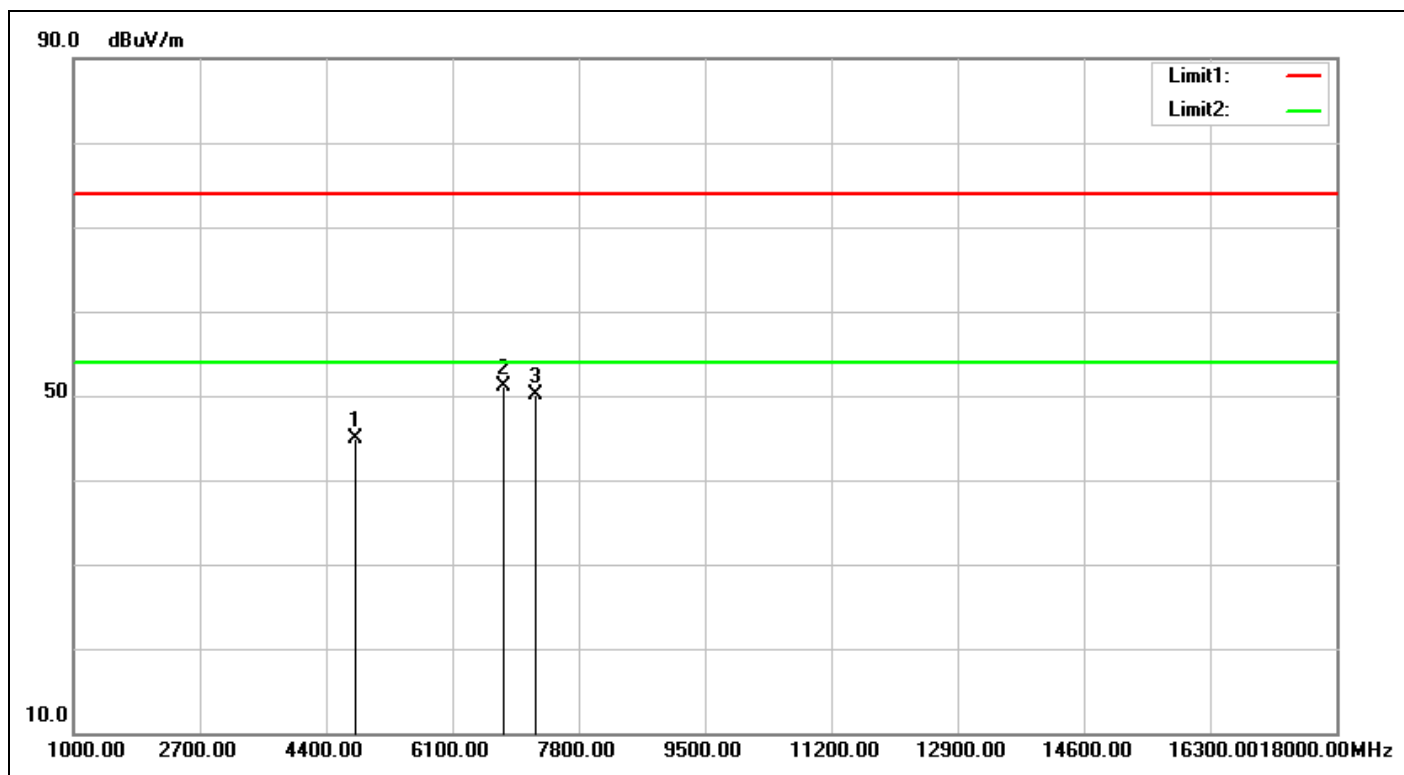
**11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105**

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



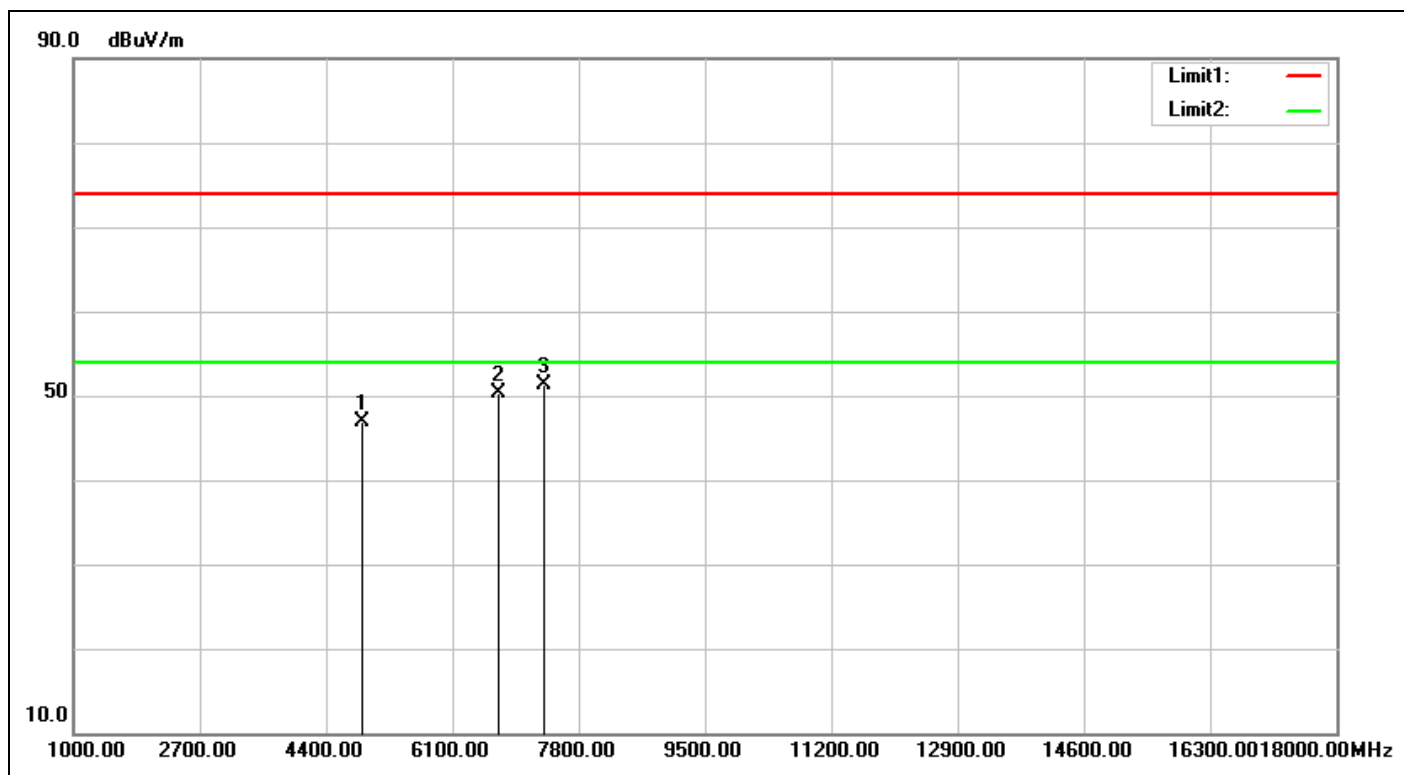
<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 19:28:35</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2402-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4804.000	-2.72	47.80	45.08	74.00	-28.92	peak	100	102	
2	6389.000	4.93	45.11	50.04	74.00	-23.96	peak	100	184	
3	7206.000	5.25	45.10	50.35	74.00	-23.65	peak	100	135	



Service No.:	114074320	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/3/8 19:29:32
Applicant:	Tong Lung Metal Industry Co., Ltd	Test Rating:	DC 6V
Product:	ELECTRONIC BLE DEADBOLT	Temp.(°C)/Hum.(%)	21.3(°C)/59%
Model No.:	PL1-BT-CH	Test Engineer:	Amy Hsu
Test Mode:	2402-TX		
Remark:			

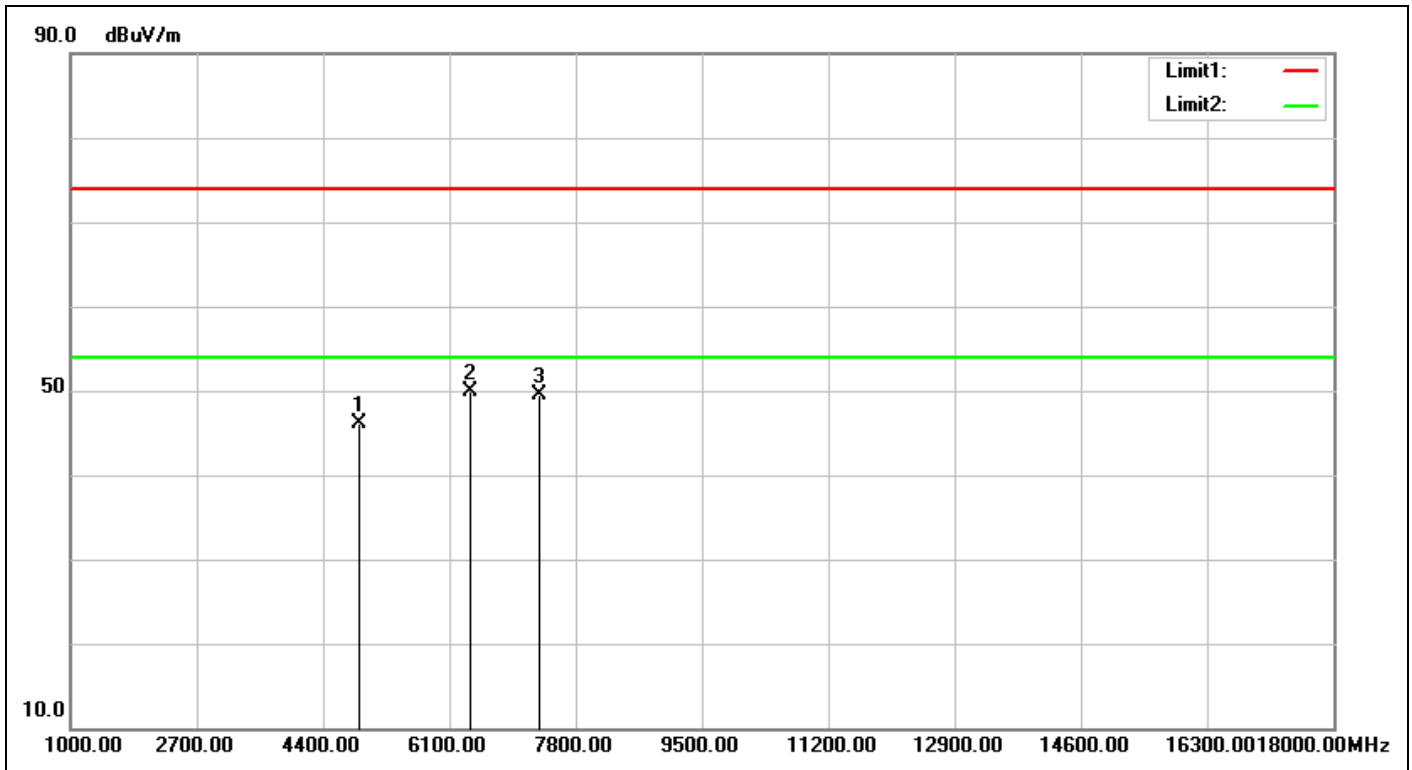
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1	4804.000	-2.72	47.59	44.87	74.00	-29.13	peak	100	167	
2	6797.000	4.99	46.07	51.06	74.00	-22.94	peak	100	135	
3	7206.000	5.25	44.86	50.11	74.00	-23.89	peak	100	258	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 19:31:25</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

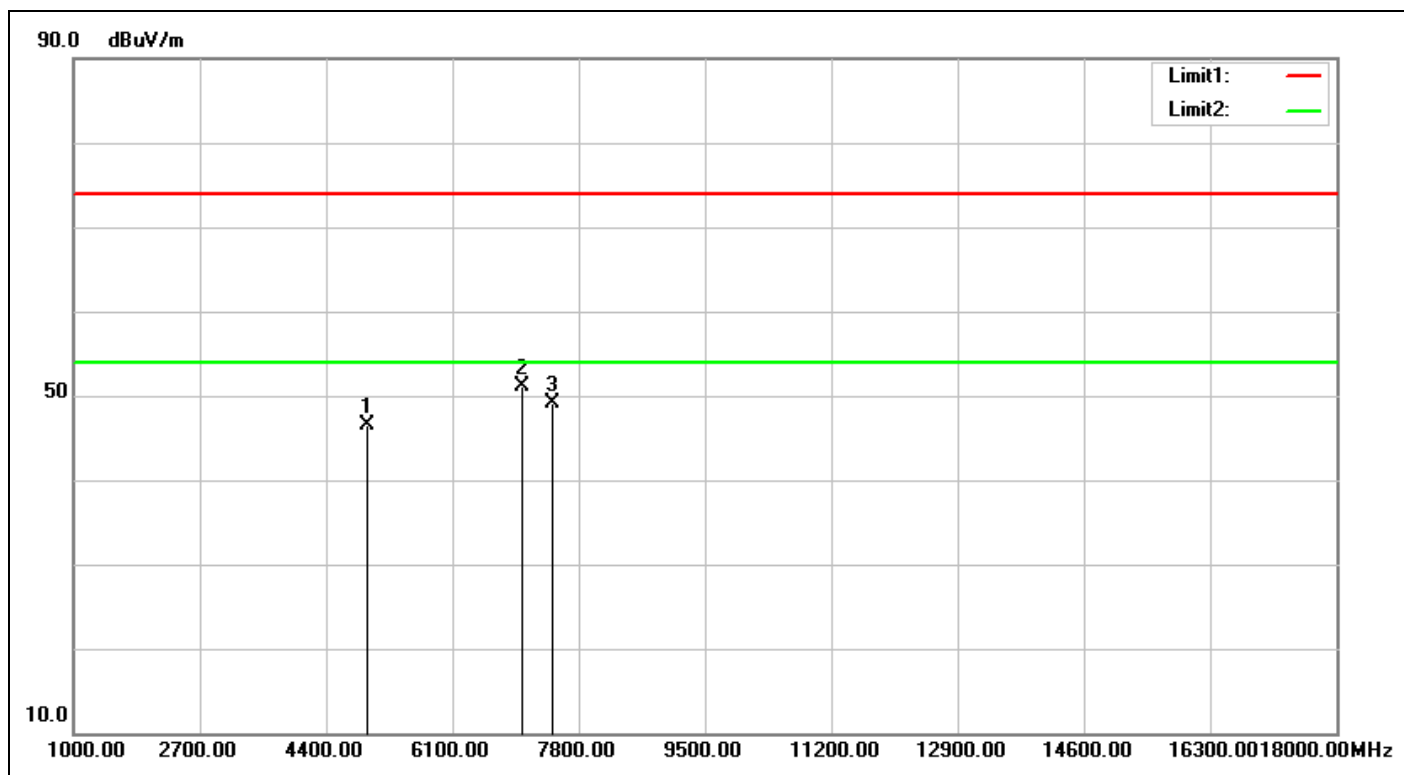
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4880.000	-2.50	49.37	46.87	74.00	-27.13	peak	100	167	
2	6729.000	5.07	45.17	50.24	74.00	-23.76	peak	100	72	
3	7320.000	5.54	45.74	51.28	74.00	-22.72	peak	100	214	





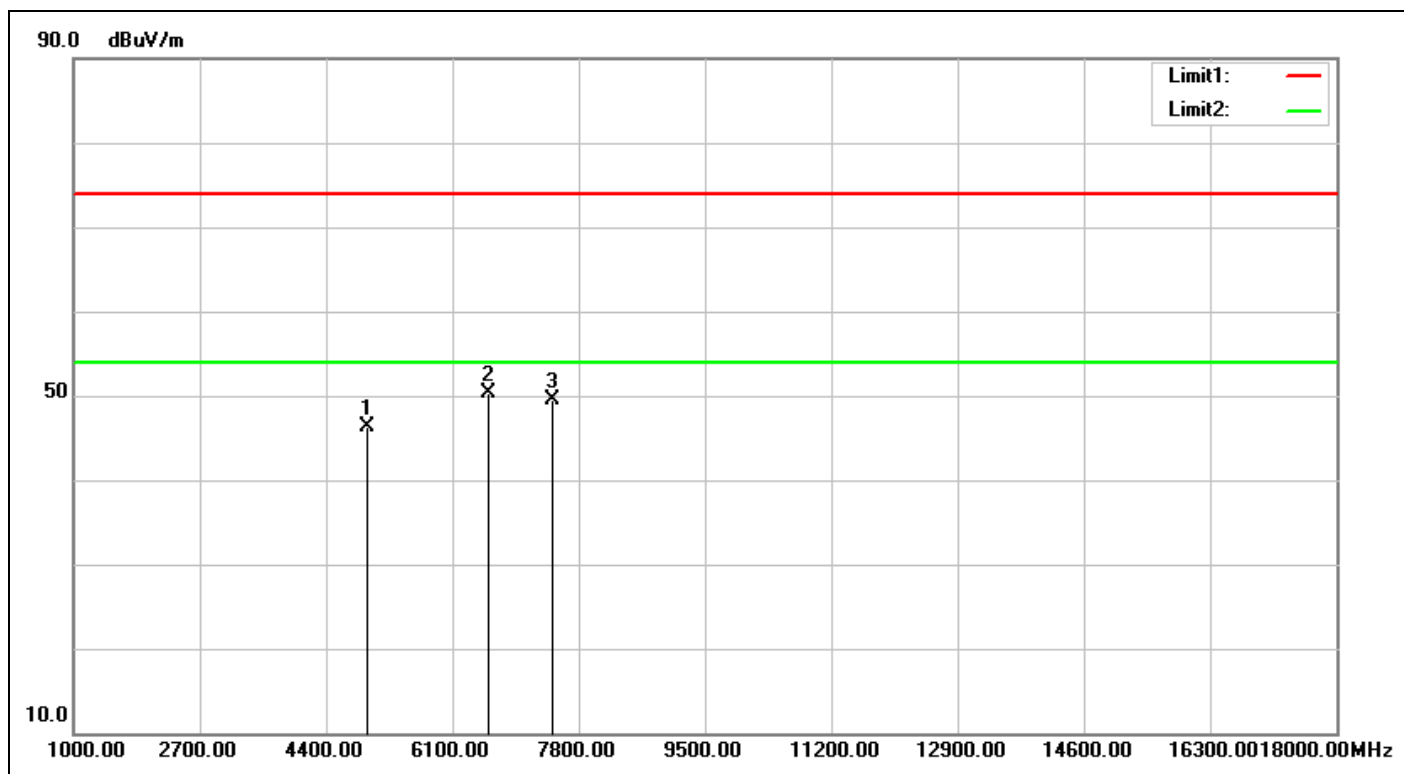
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<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 19:32:21</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4880.000	-2.50	48.53	46.03	74.00	-27.97	peak	100	162	
2	6389.000	4.93	44.93	49.86	74.00	-24.14	peak	100	145	
3	7320.000	5.54	43.98	49.52	74.00	-24.48	peak	100	117	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 19:34:27</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2480-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4960.000	-2.28	48.70	46.42	74.00	-27.58	peak	100	148	
2	7035.000	4.82	46.34	51.16	74.00	-22.84	peak	100	122	
3	7440.000	5.84	43.29	49.13	74.00	-24.87	peak	100	137	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 19:35:23</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2480-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4960.000	-2.28	48.61	46.33	74.00	-27.67	peak	100	221	
2	6576.000	5.27	44.99	50.26	74.00	-23.74	peak	100	3	
3	7440.000	5.84	43.69	49.53	74.00	-24.47	peak	100	102	

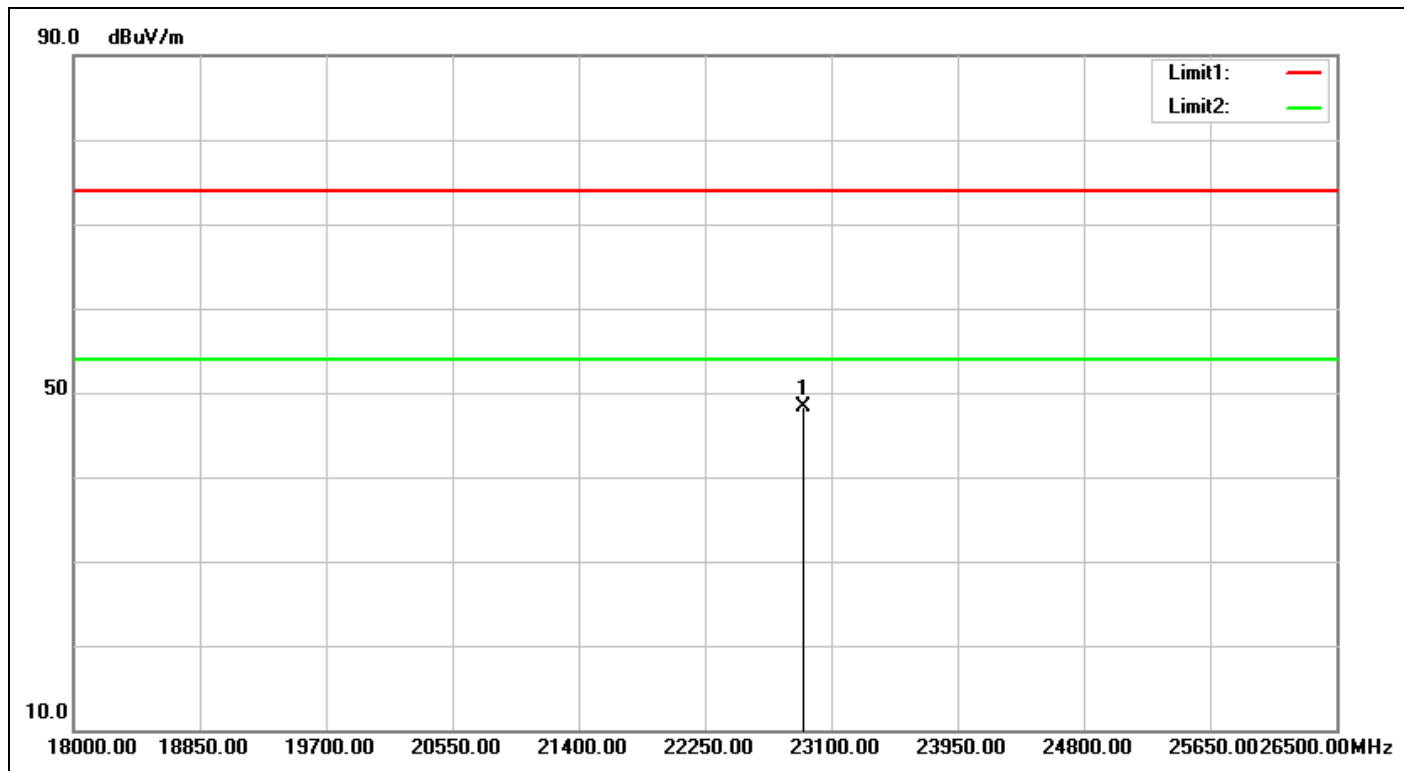
# Spurious Emissions, TX Mode, 18-26.5G



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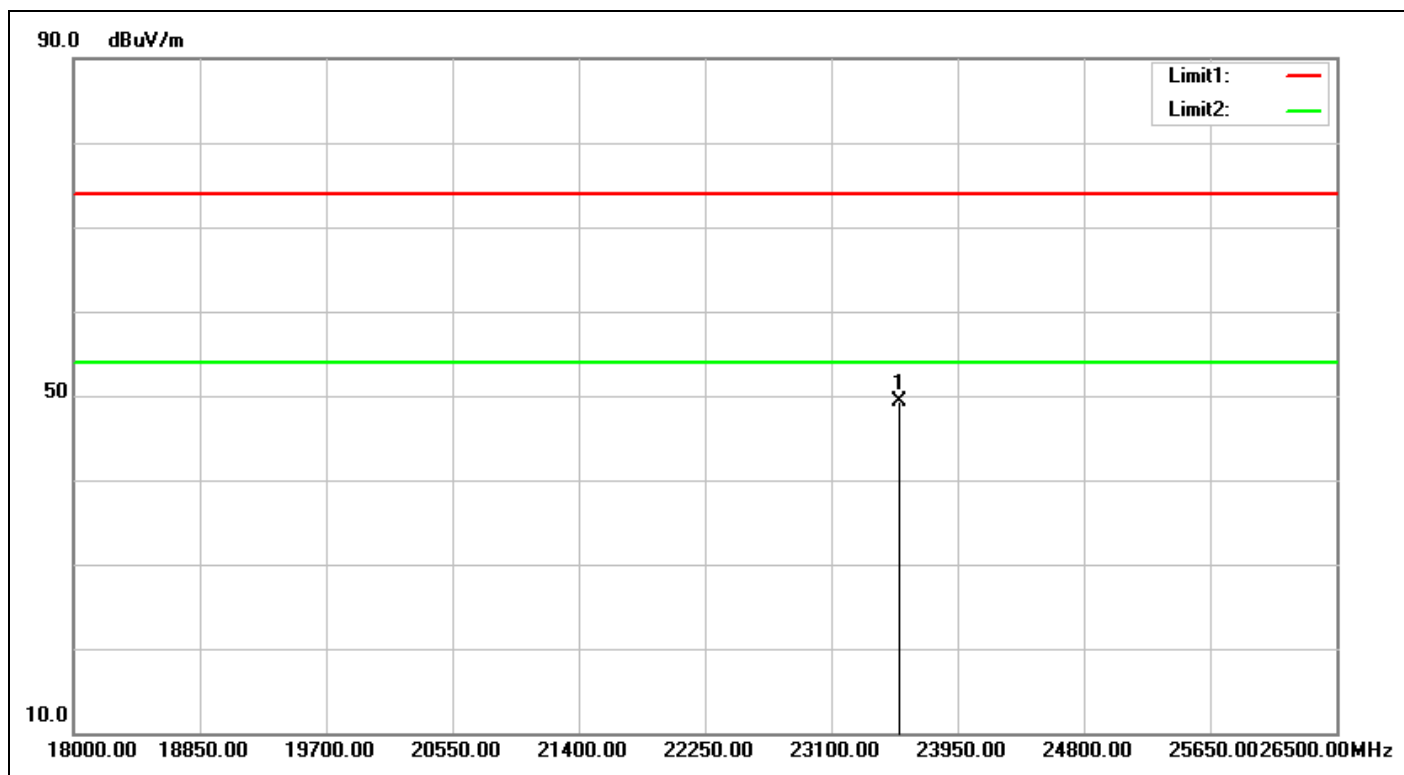
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



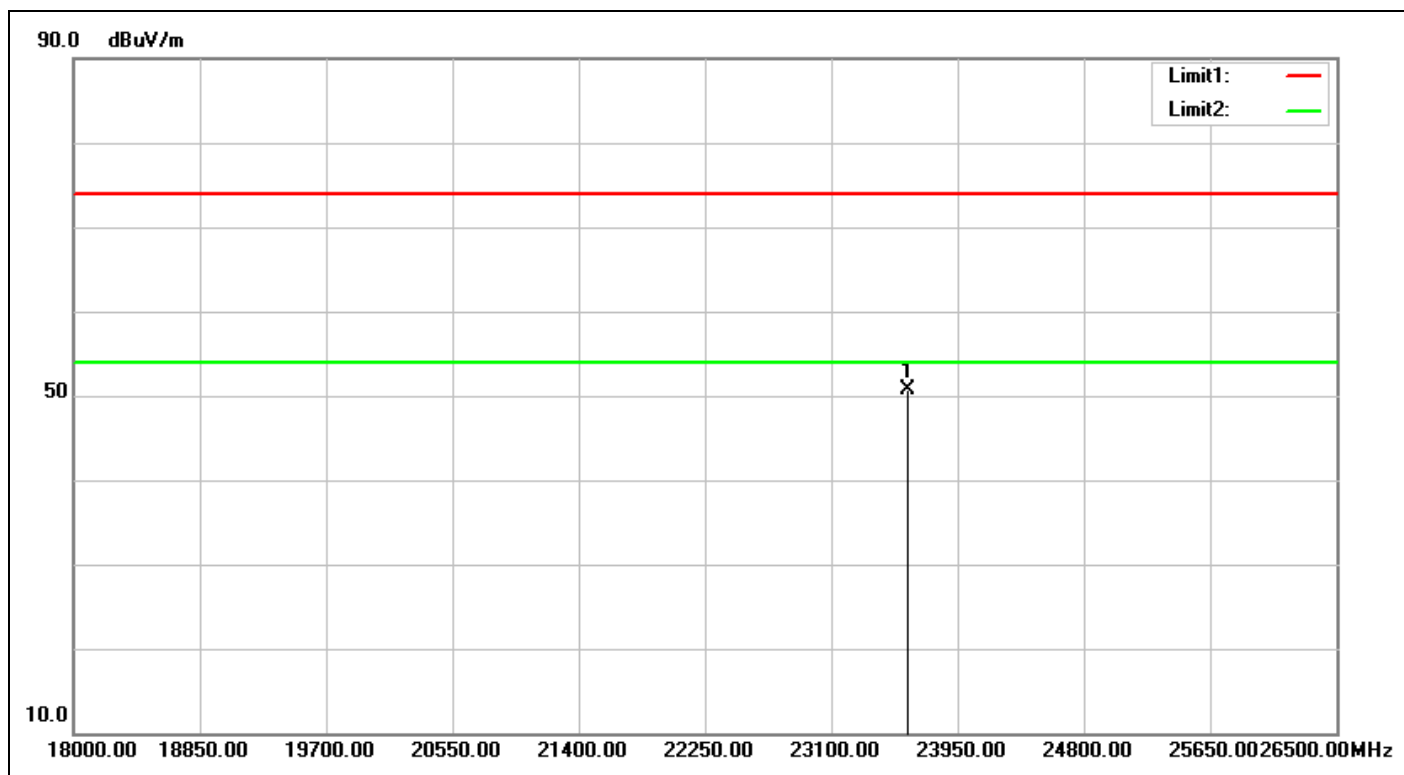
Service No.:	114074320	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/3/8 20:26:52
Applicant:	Tong Lung Metal Industry Co., Ltd	Test Rating:	DC 6V
Product:	ELECTRONIC BLE DEADBOLT	Temp.(°C)/Hum.(%):	21.3(°C)/59%
Model No.:	PL1-BT-CH	Test Engineer:	Amy Hsu
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	22913.000	32.77	15.45	48.22	74.00	-25.78	peak	100	88	



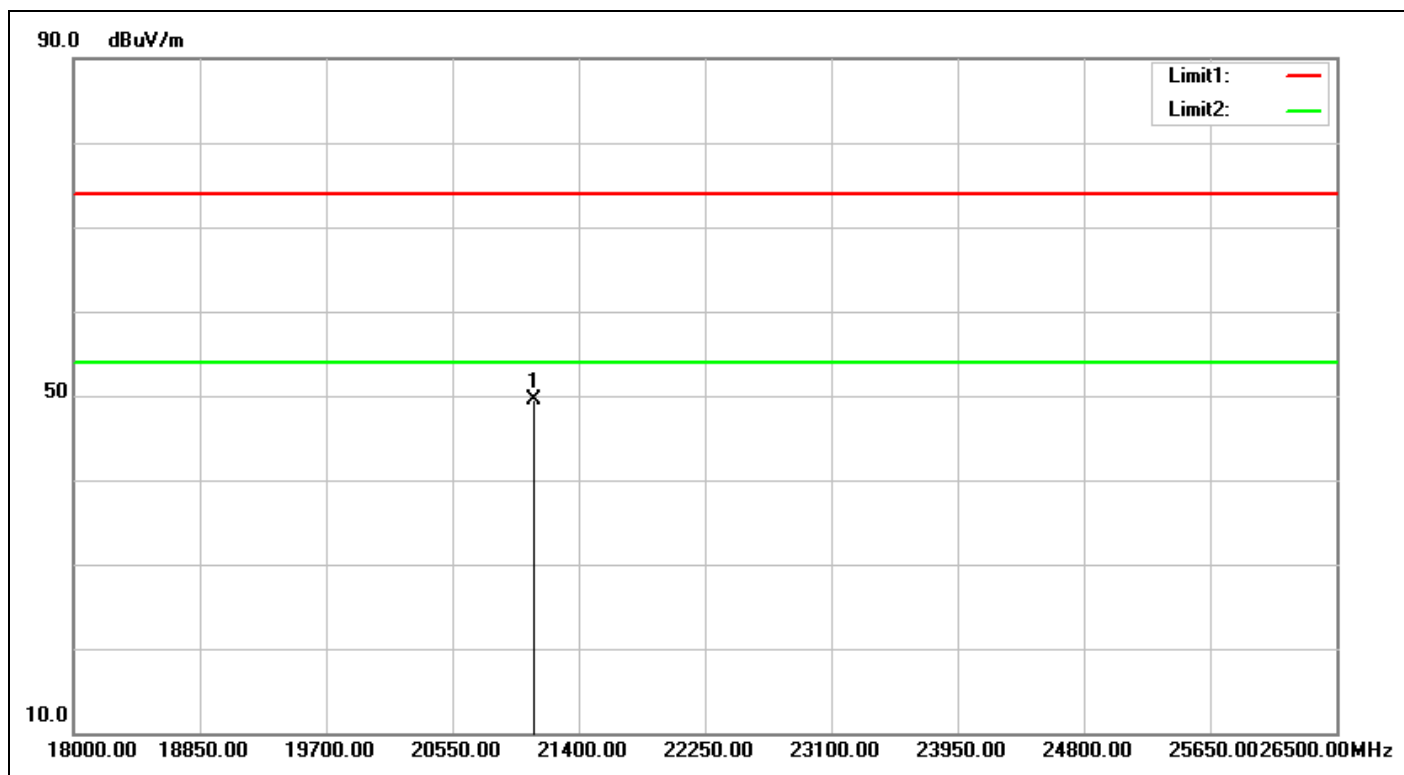
<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:27:07</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2402-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	23559.000	33.23	16.02	49.25	74.00	-24.75	peak	100	260	



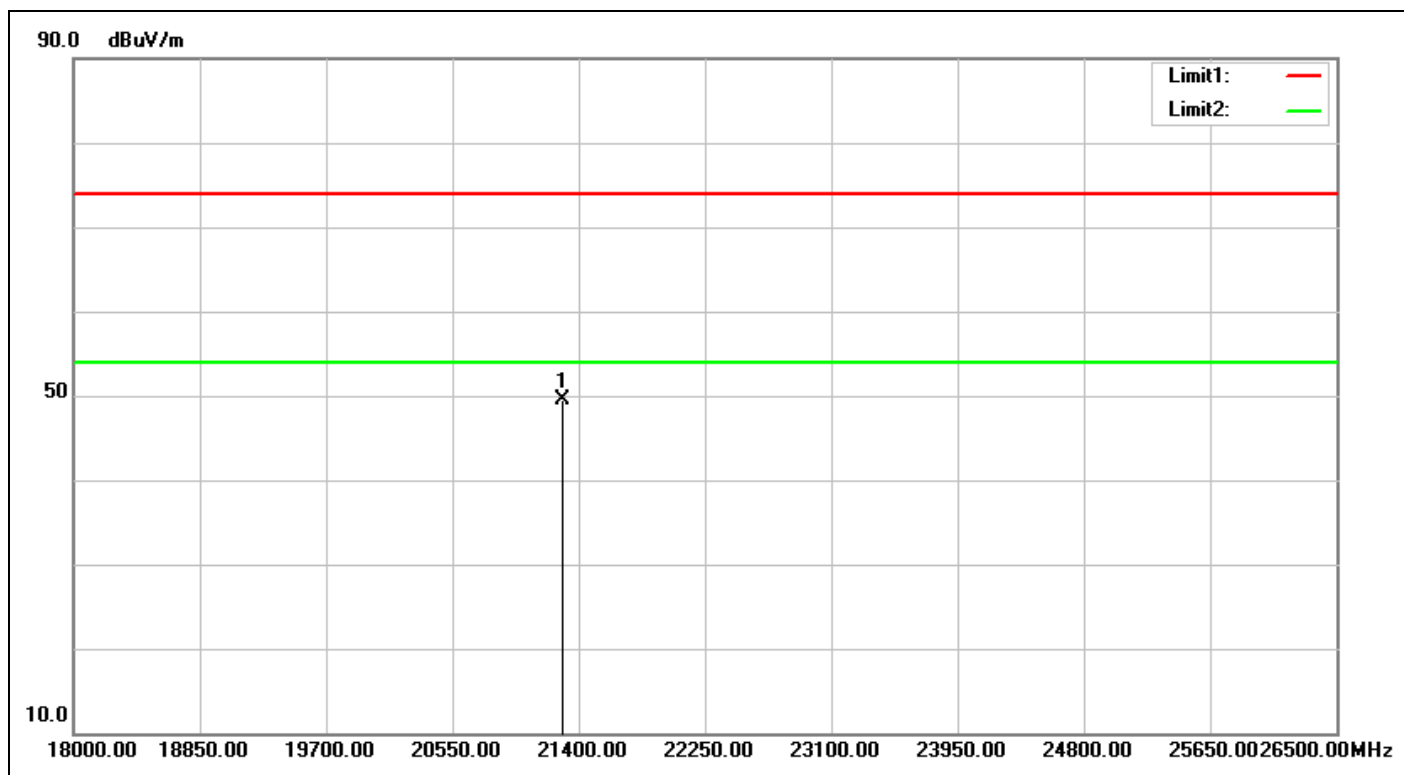
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<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:27:29</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23610.000	33.20	17.56	50.76	74.00	-23.24	peak	100	291	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:27:41</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

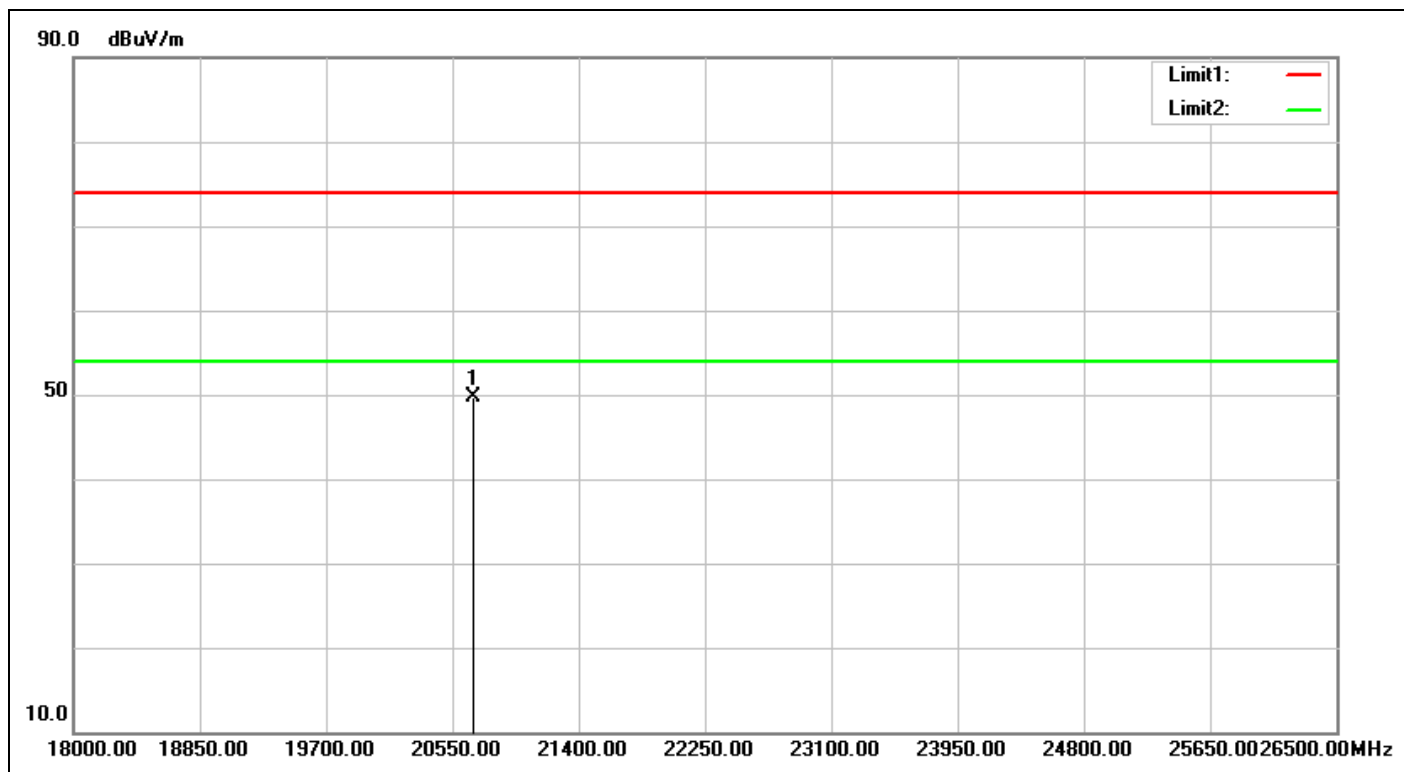
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	21094.000	32.53	16.95	49.48	74.00	-24.52	peak	100	166	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:28:03</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2480-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	21289.500	32.69	16.83	49.52	74.00	-24.48	peak	100	263	





<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:28:15</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2480-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	20686.000	31.78	17.92	49.70	74.00	-24.30	peak	100	138	

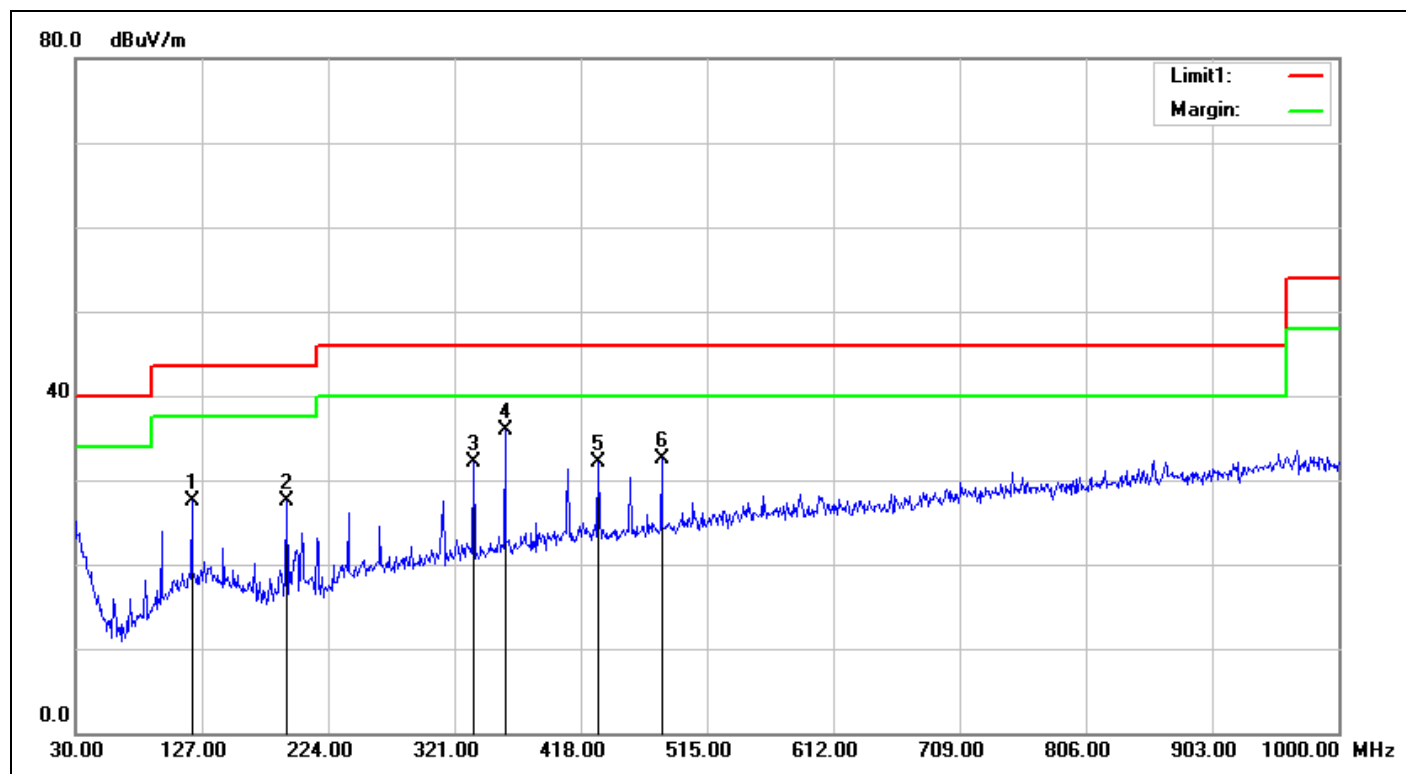
# Spurious Emissions, TX Mode, 30M-1G



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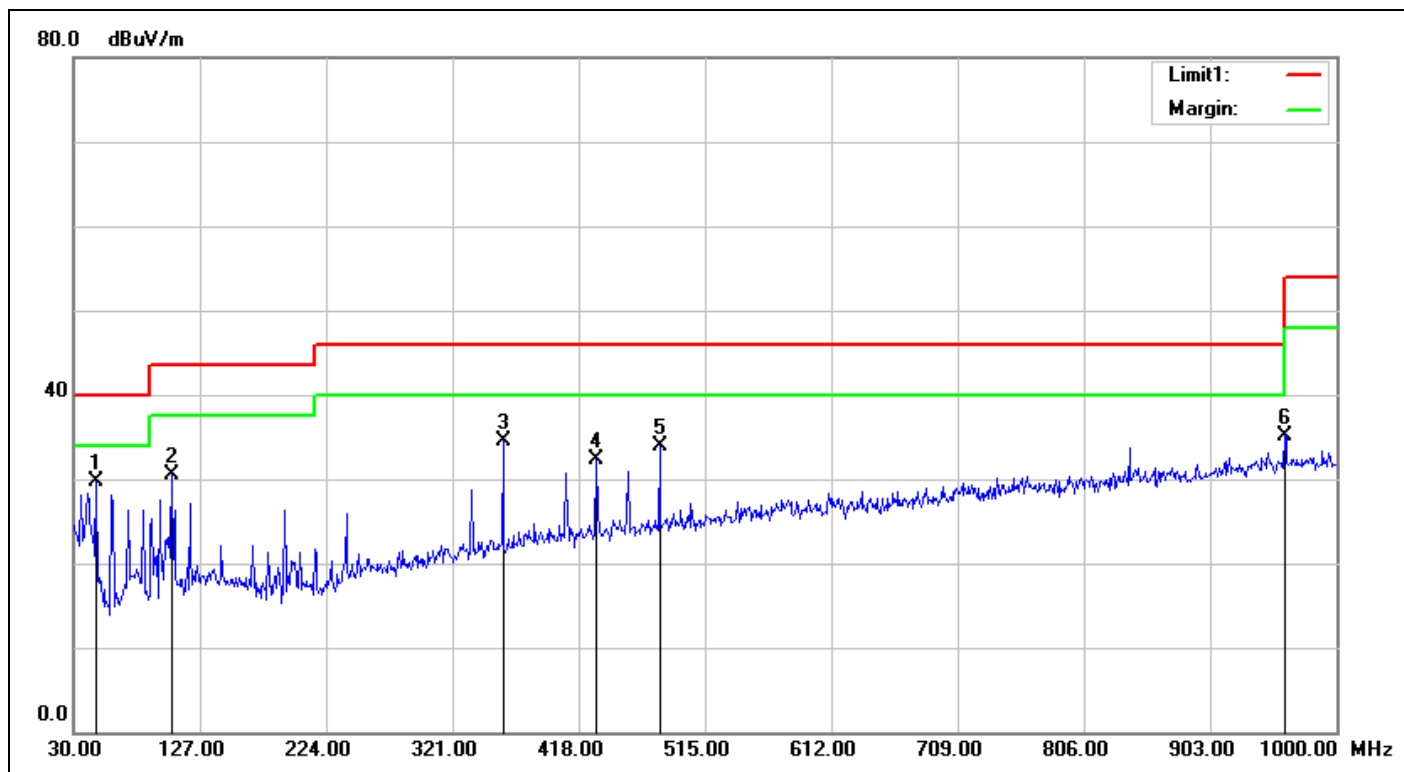
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114074320	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/3/8 21:01:51
Applicant:	Tong Lung Metal Industry Co., Ltd	Test Rating:	DC 6V
Product:	ELECTRONIC BLE DEADBOLT	Temp.(°C)/Hum.(%)	21.3(°C)/59%
Model No.:	PL1-BT-CH	Test Engineer:	Amy Hsu
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	119.2400	-7.50	34.91	27.41	43.50	-16.09	QP	100	288	
2	191.9900	-9.42	36.89	27.47	43.50	-16.03	QP	100	260	
3	335.5500	-3.70	35.84	32.14	46.00	-13.86	QP	100	116	
4	359.8000	-3.16	39.06	35.90	46.00	-10.10	QP	100	294	
5	431.5800	-2.09	34.16	32.07	46.00	-13.93	QP	100	144	
6	480.0800	-1.47	34.05	32.58	46.00	-13.42	QP	100	166	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Class B 3M Radiation</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 21:02:48</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-RX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	47.4600	-10.07	39.85	29.78	40.00	-10.22	QP	100	359	
2	105.6600	-8.77	39.19	30.42	43.50	-13.08	QP	100	1	
3	359.8000	-3.16	37.74	34.58	46.00	-11.42	QP	100	310	
4	431.5800	-2.09	34.31	32.22	46.00	-13.78	QP	100	216	
5	480.0800	-1.47	35.40	33.93	46.00	-12.07	QP	100	195	
6	960.2300	5.54	29.66	35.20	54.00	-18.80	QP	100	175	

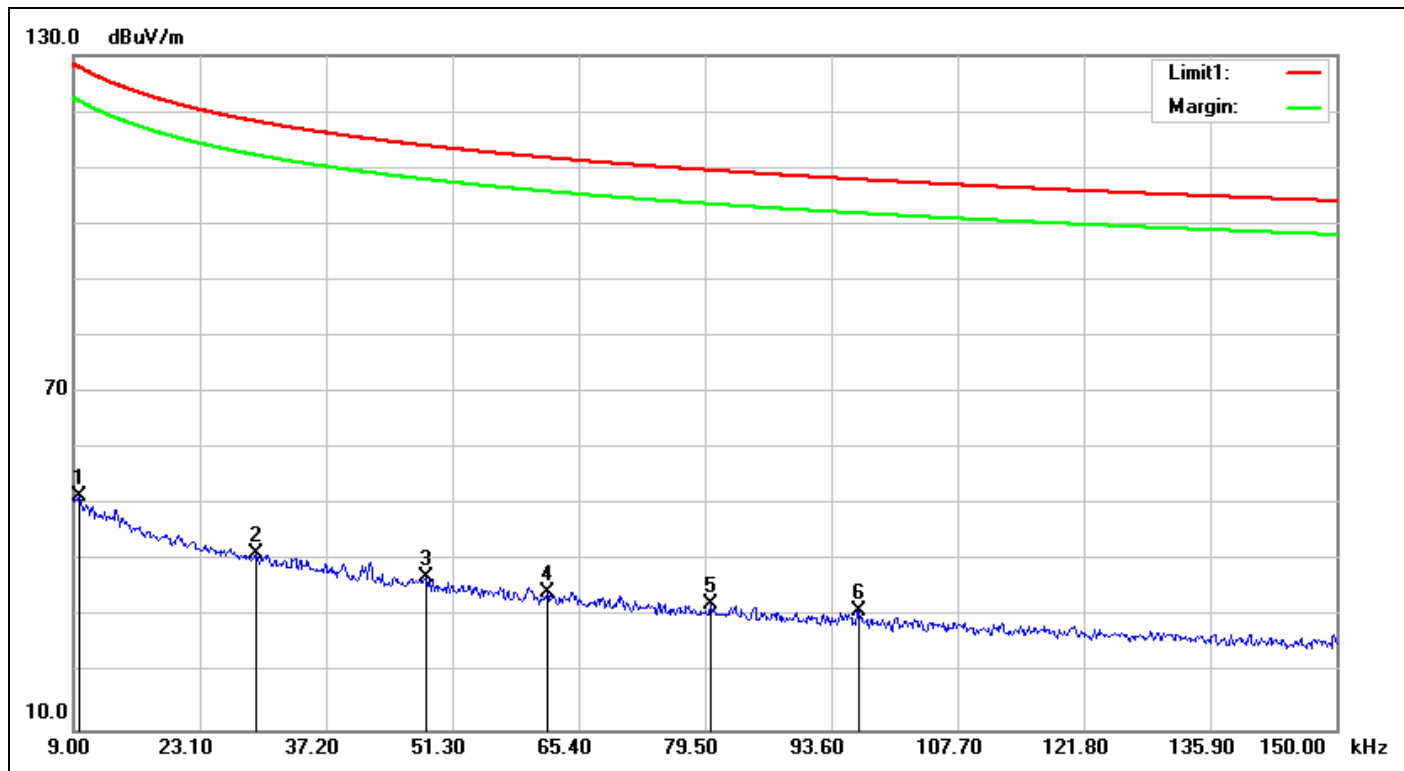
# Spurious Emissions, TX Mode, 9k-30M



**TUV Rheinland Taiwan Ltd.**

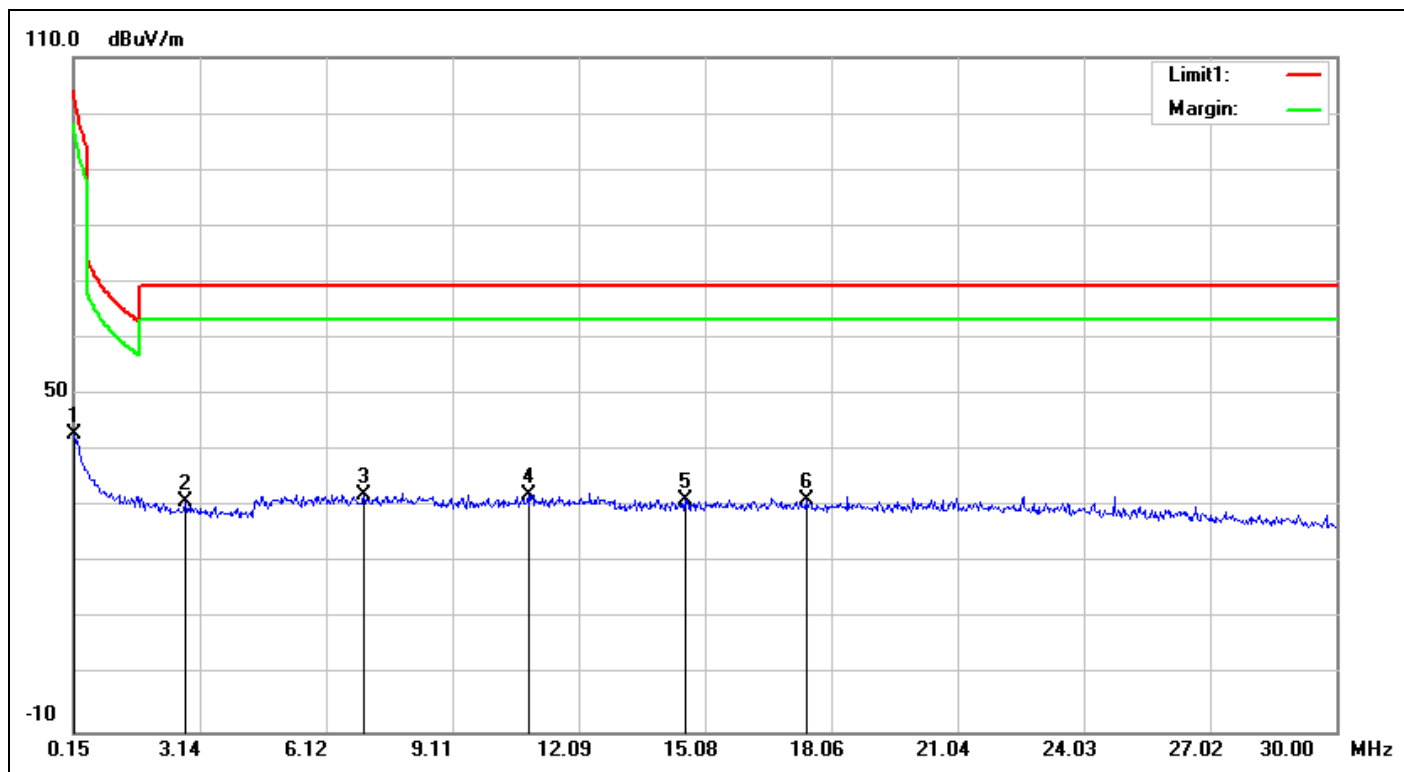
**11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105**

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



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC2.8_9k-1G_3m</b>	<b>Ant. Polarization:</b>	
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:46:37</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	0.0095	19.73	31.91	51.64	128.03	-76.39	QP	100	221	
2	0.0293	20.12	21.16	41.28	118.25	-76.97	QP	100	283	
3	0.0483	19.49	17.64	37.13	113.91	-76.78	QP	100	57	
4	0.0618	19.36	15.08	34.44	111.77	-77.33	QP	100	160	
5	0.0800	19.25	13.11	32.36	109.53	-77.17	QP	100	36	
6	0.0967	19.15	11.96	31.11	107.89	-76.78	QP	100	241	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC2.8_9k-1G_3m</b>	<b>Ant. Polarization:</b>	
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:49:32</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	0.1798	19.06	24.00	43.06	102.50	-59.44	QP	100	104	
2	2.7768	18.58	12.25	30.83	69.50	-38.67	QP	100	249	
3	7.0155	19.94	12.19	32.13	69.50	-37.37	QP	100	244	
4	10.8960	20.38	11.92	32.30	69.50	-37.20	QP	100	68	
5	14.5974	21.03	10.30	31.33	69.50	-38.17	QP	100	347	
6	17.4630	21.54	9.78	31.32	69.50	-38.18	QP	100	6	

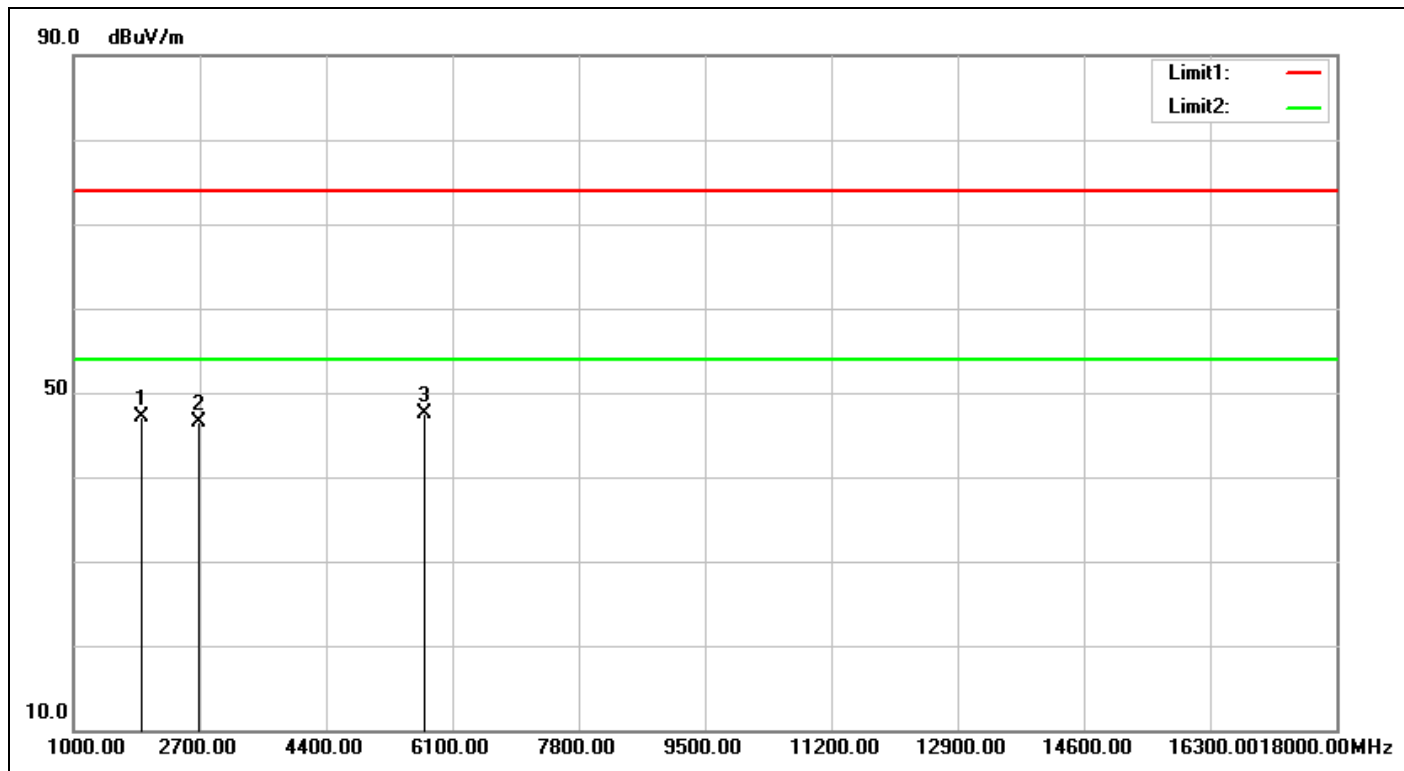
## Spurious Emissions, RX Mode, 1-18G



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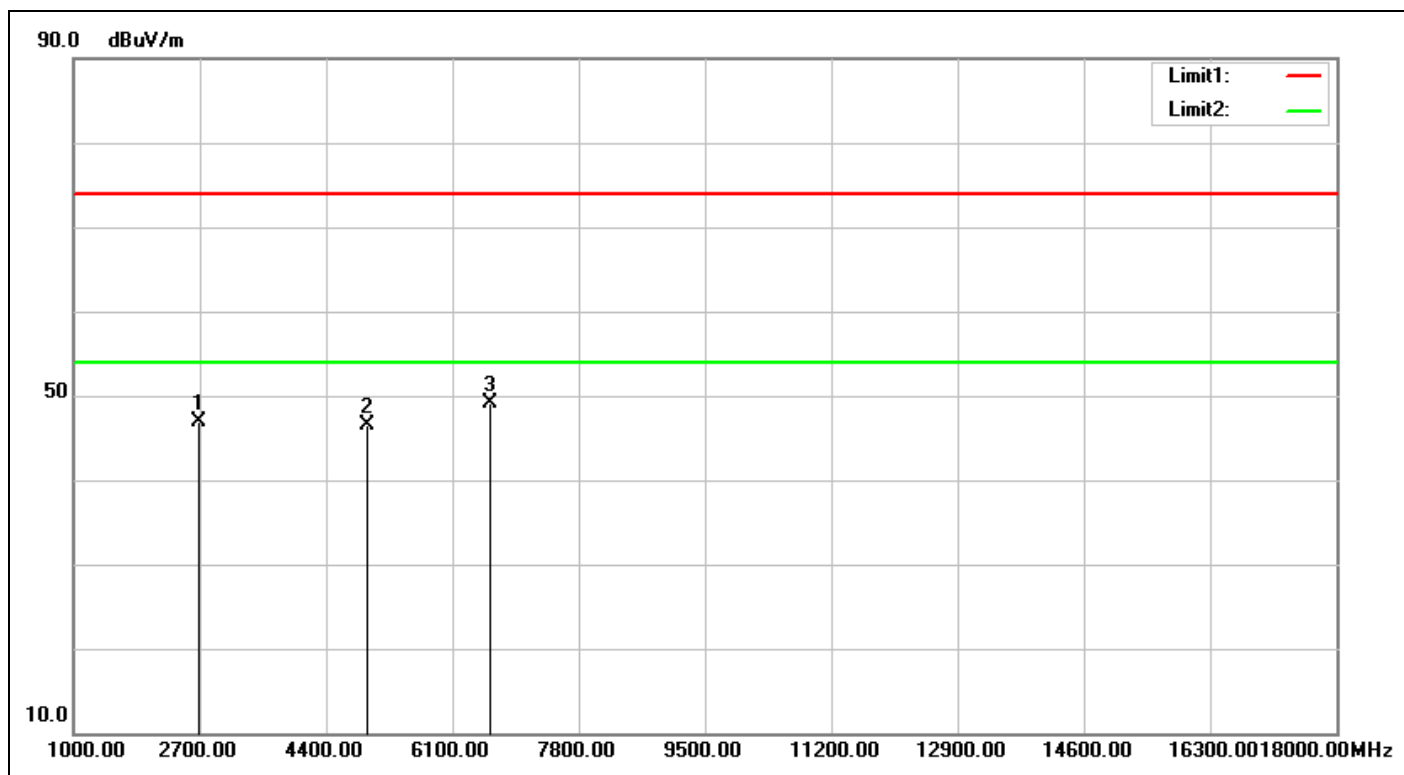
**11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105**

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



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 19:38:02</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-RX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	1918.000	-8.64	55.84	47.20	74.00	-26.80	peak	100	25	
2	2683.000	-7.73	54.22	46.49	74.00	-27.51	peak	100	260	
3	5726.000	0.61	46.83	47.44	74.00	-26.56	peak	100	210	



Service No.:	114074320	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/3/8 19:38:58
Applicant:	Tong Lung Metal Industry Co., Ltd	Test Rating:	DC 6V
Product:	ELECTRONIC BLE DEADBOLT	Temp.(°C)/Hum.(%)	21.3(°C)/59%
Model No.:	PL1-BT-CH	Test Engineer:	Amy Hsu
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	2683.000	-7.73	54.54	46.81	74.00	-27.19	peak	100	173	
2	4944.000	-3.29	49.84	46.55	74.00	-27.45	peak	100	269	
3	6610.000	4.19	44.91	49.10	74.00	-24.90	peak	100	341	

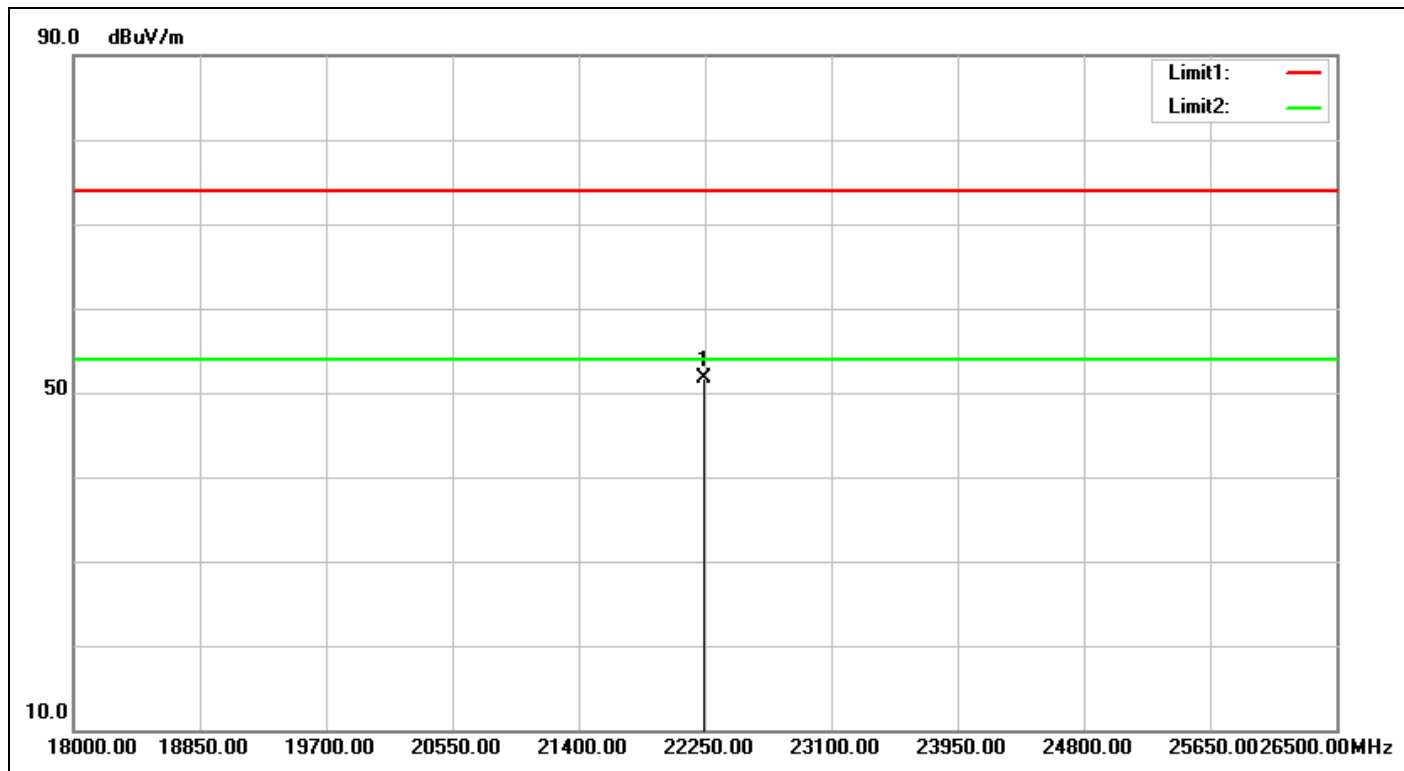
# Spurious Emissions, RX Mode, 18-26.5G



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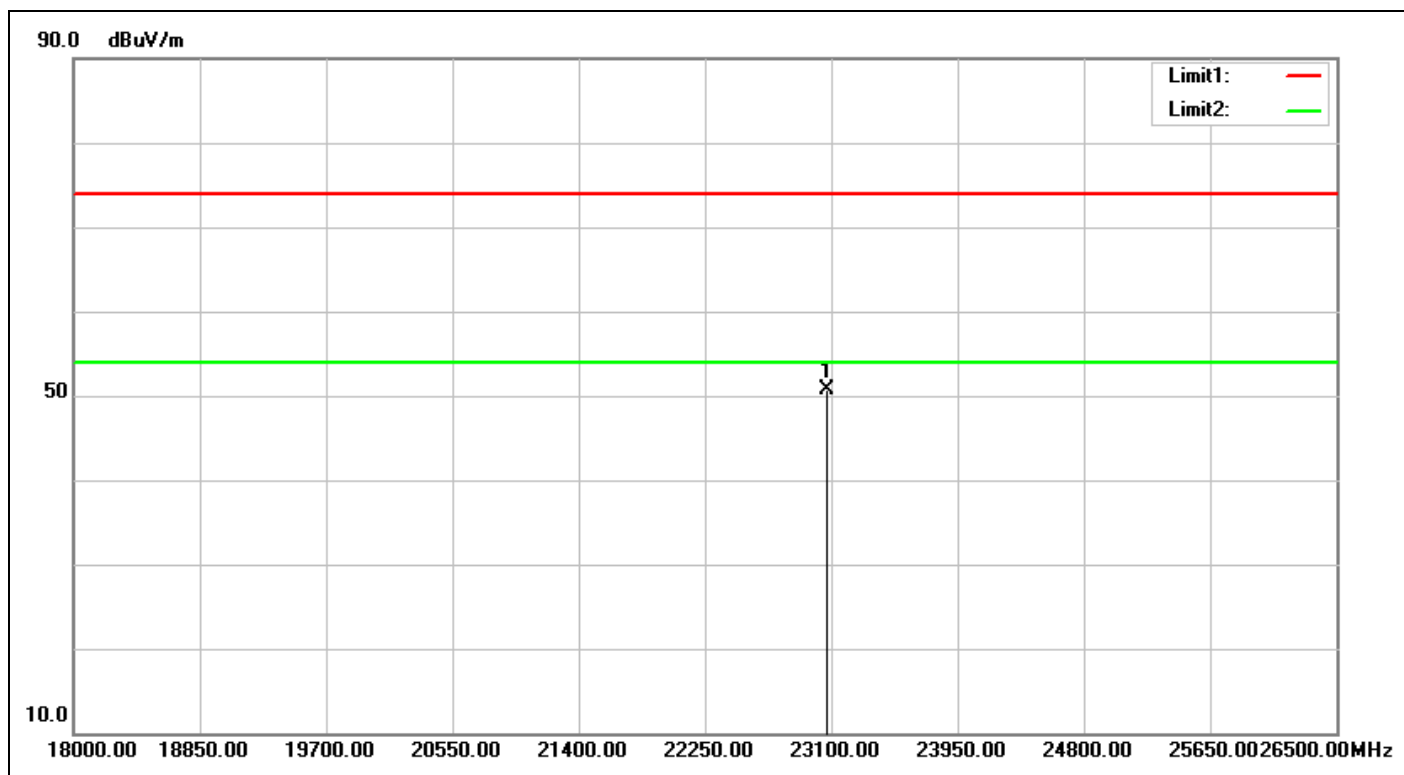
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Service No.:	114074320	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/3/8 20:28:39
Applicant:	Tong Lung Metal Industry Co., Ltd	Test Rating:	DC 6V
Product:	ELECTRONIC BLE DEADBOLT	Temp.(°C)/Hum.(%)	21.3(°C)/59%
Model No.:	PL1-BT-CH	Test Engineer:	Amy Hsu
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	22241.500	32.61	19.15	51.76	74.00	-22.24	peak	100	323	





<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:28:51</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-RX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	23074.500	32.87	17.80	50.67	74.00	-23.33	peak	100	248	

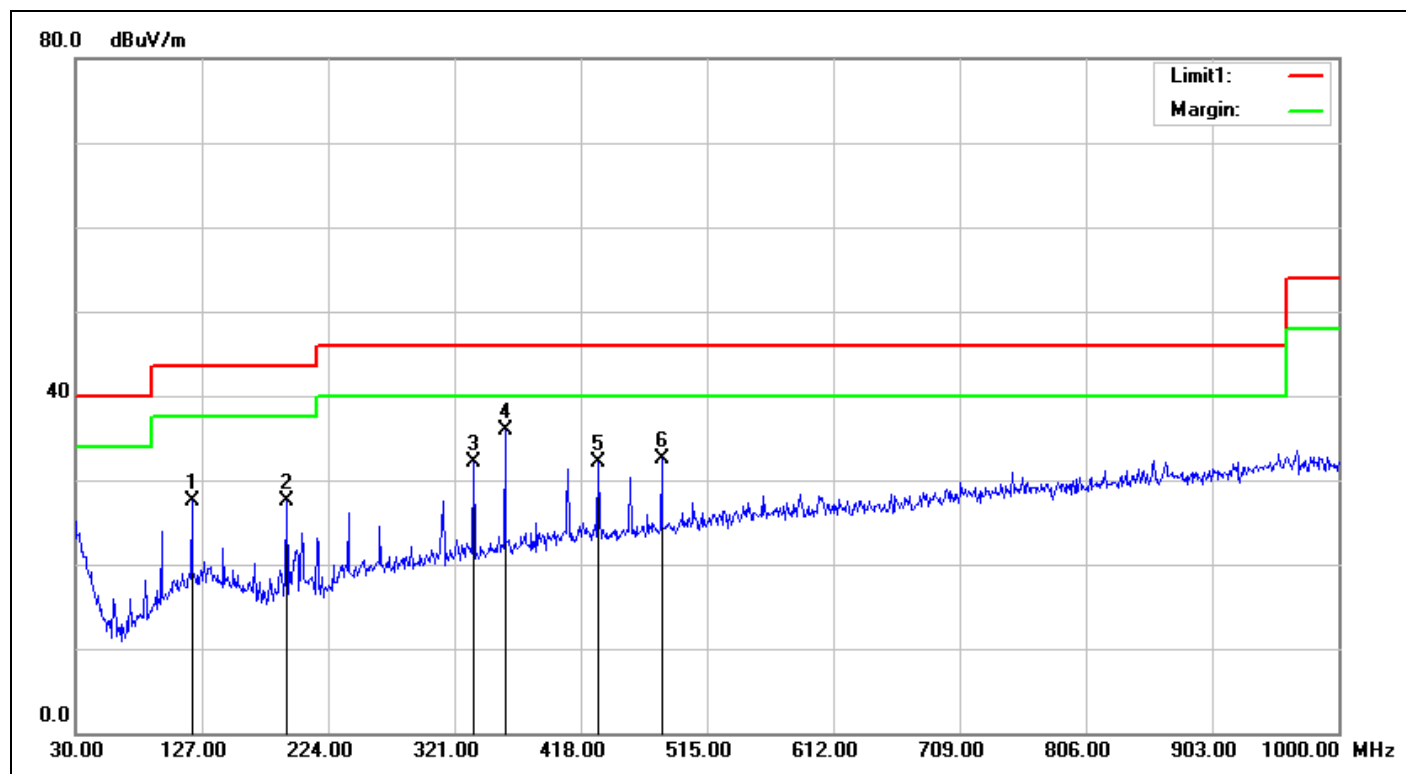
# Spurious Emissions, RX Mode, 30M-1G



**TUV Rheinland Taiwan Ltd.**

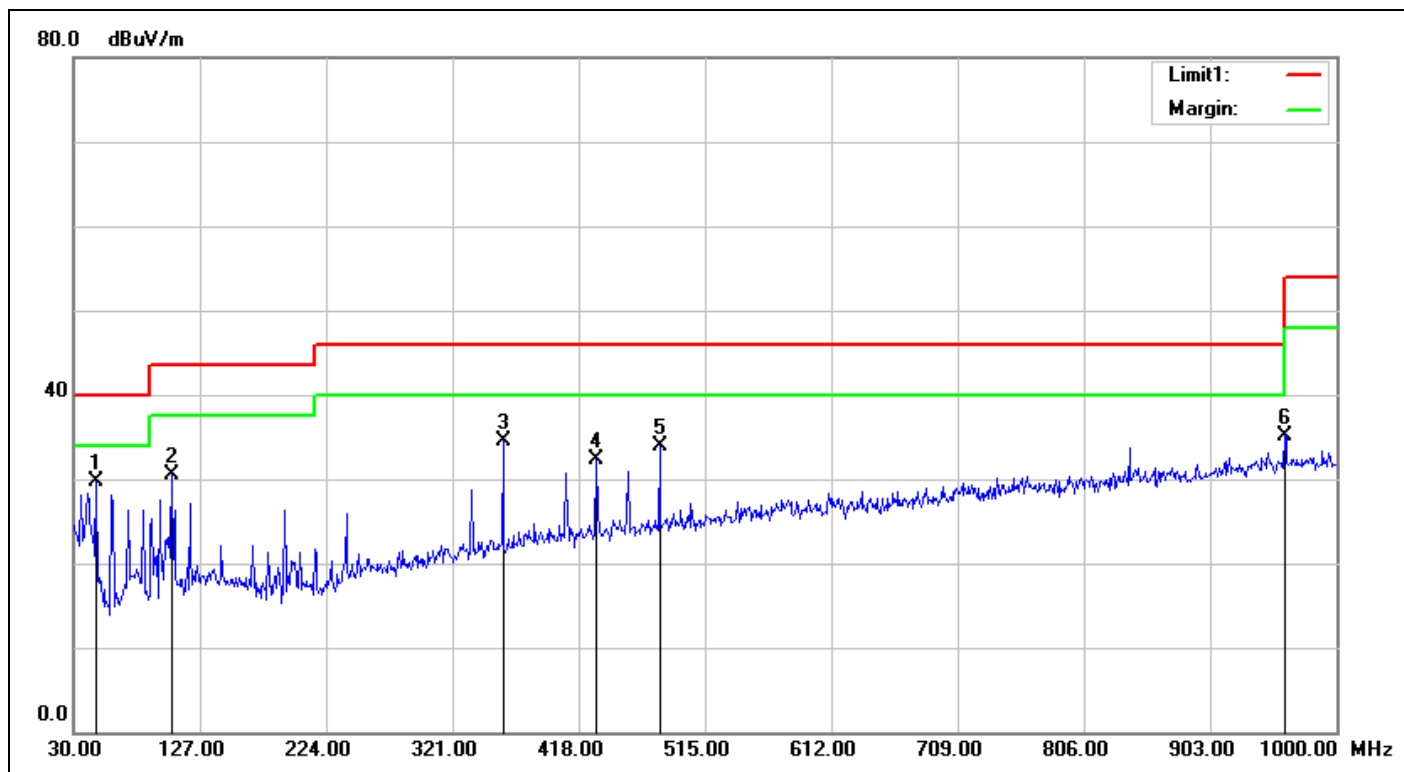
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114074320	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/3/8 21:01:51
Applicant:	Tong Lung Metal Industry Co., Ltd	Test Rating:	DC 6V
Product:	ELECTRONIC BLE DEADBOLT	Temp.(°C)/Hum.(%)	21.3(°C)/59%
Model No.:	PL1-BT-CH	Test Engineer:	Amy Hsu
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	119.2400	-7.50	34.91	27.41	43.50	-16.09	QP	100	288	
2	191.9900	-9.42	36.89	27.47	43.50	-16.03	QP	100	260	
3	335.5500	-3.70	35.84	32.14	46.00	-13.86	QP	100	116	
4	359.8000	-3.16	39.06	35.90	46.00	-10.10	QP	100	294	
5	431.5800	-2.09	34.16	32.07	46.00	-13.93	QP	100	144	
6	480.0800	-1.47	34.05	32.58	46.00	-13.42	QP	100	166	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Class B 3M Radiation</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 21:02:48</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-RX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	47.4600	-10.07	39.85	29.78	40.00	-10.22	QP	100	359	
2	105.6600	-8.77	39.19	30.42	43.50	-13.08	QP	100	1	
3	359.8000	-3.16	37.74	34.58	46.00	-11.42	QP	100	310	
4	431.5800	-2.09	34.31	32.22	46.00	-13.78	QP	100	216	
5	480.0800	-1.47	35.40	33.93	46.00	-12.07	QP	100	195	
6	960.2300	5.54	29.66	35.20	54.00	-18.80	QP	100	175	

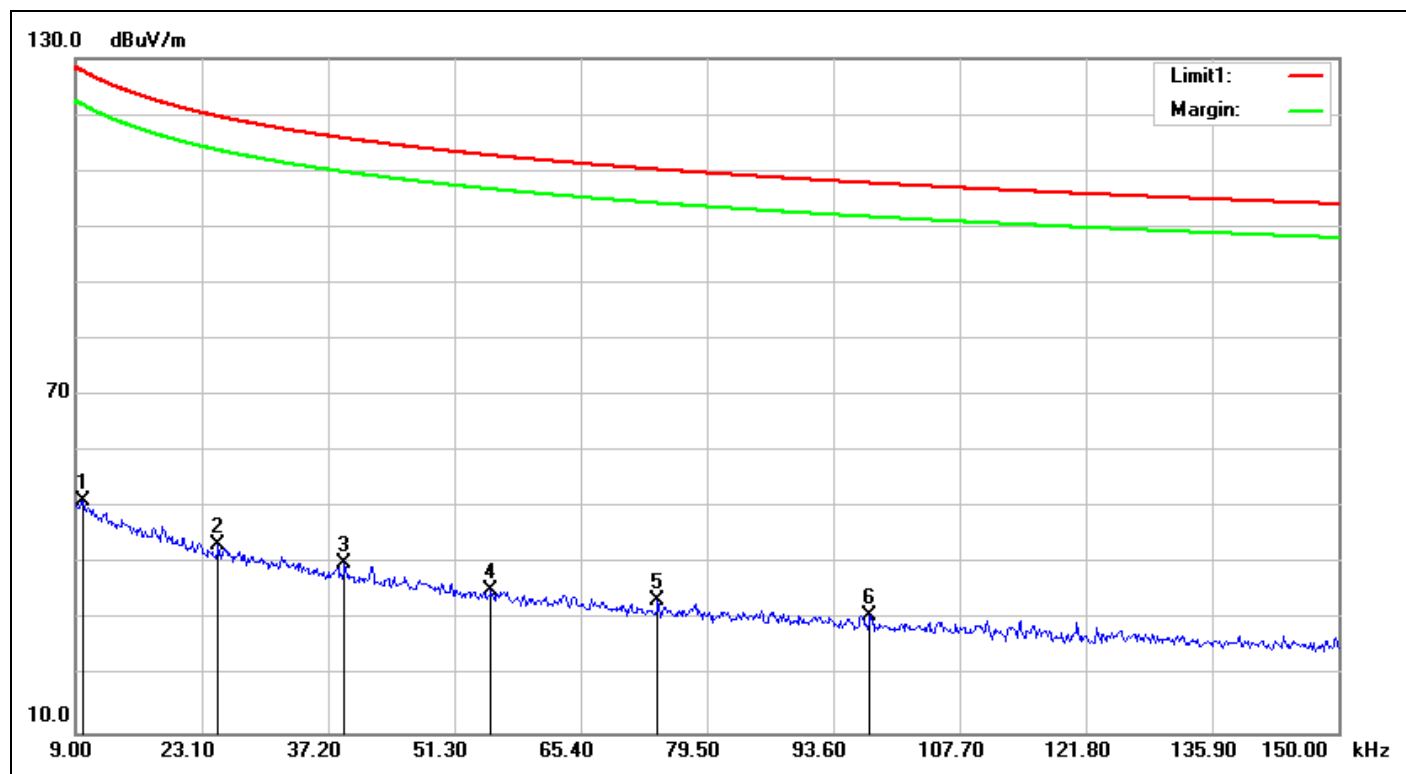
# Spurious Emissions, RX Mode, 9K-30M



**TUV Rheinland Taiwan Ltd.**

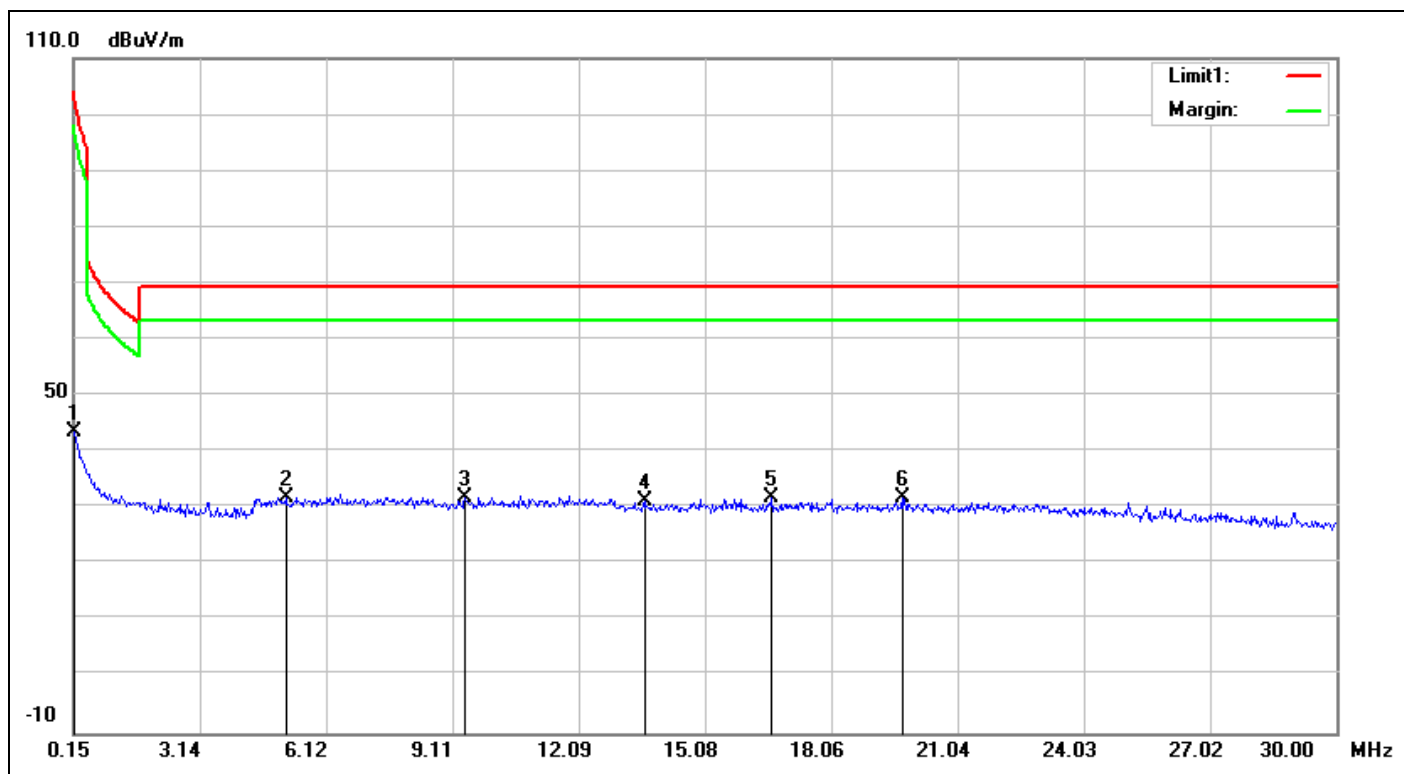
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114074320	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/3/8 20:47:34
Applicant:	Tong Lung Metal Industry Co., Ltd	Test Rating:	DC 6V
Product:	ELECTRONIC BLE DEADBOLT	Temp.(°C)/Hum.(%)	21.3(°C)/59%
Model No.:	PL1-BT-CH	Test Engineer:	Amy Hsu
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	0.0098	19.85	31.48	51.33	127.76	-76.43	QP	100	359	
2	0.0249	20.08	23.49	43.57	119.67	-76.10	QP	100	23	
3	0.0390	19.82	20.37	40.19	115.77	-75.58	QP	100	134	
4	0.0554	19.40	16.01	35.41	112.72	-77.31	QP	100	204	
5	0.0740	19.29	14.27	33.56	110.21	-76.65	QP	100	8	
6	0.0977	19.14	11.82	30.96	107.80	-76.84	QP	100	152	



<b>Service No.:</b>	<b>114074320</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC2.8_9k-1G_3m</b>	<b>Ant. Polarization:</b>	
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2018/3/8 20:50:29</b>
<b>Applicant:</b>	<b>Tong Lung Metal Industry Co., Ltd</b>	<b>Test Rating:</b>	<b>DC 6V</b>
<b>Product:</b>	<b>ELECTRONIC BLE DEADBOLT</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>21.3(°C)/59%</b>
<b>Model No.:</b>	<b>PL1-BT-CH</b>	<b>Test Engineer:</b>	<b>Amy Hsu</b>
<b>Test Mode:</b>	<b>2440-RX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	0.1799	19.06	24.35	43.41	102.50	-59.09	QP	100	212	
2	5.1648	19.77	12.02	31.79	69.50	-37.71	QP	100	6	
3	9.4035	20.16	11.73	31.89	69.50	-37.61	QP	100	165	
4	13.6422	20.86	10.25	31.11	69.50	-38.39	QP	100	281	
5	16.6571	21.39	10.42	31.81	69.50	-37.69	QP	100	97	
6	19.7316	21.93	9.89	31.82	69.50	-37.68	QP	100	40	