

Test Report No.50087047 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50087047AppendixD)

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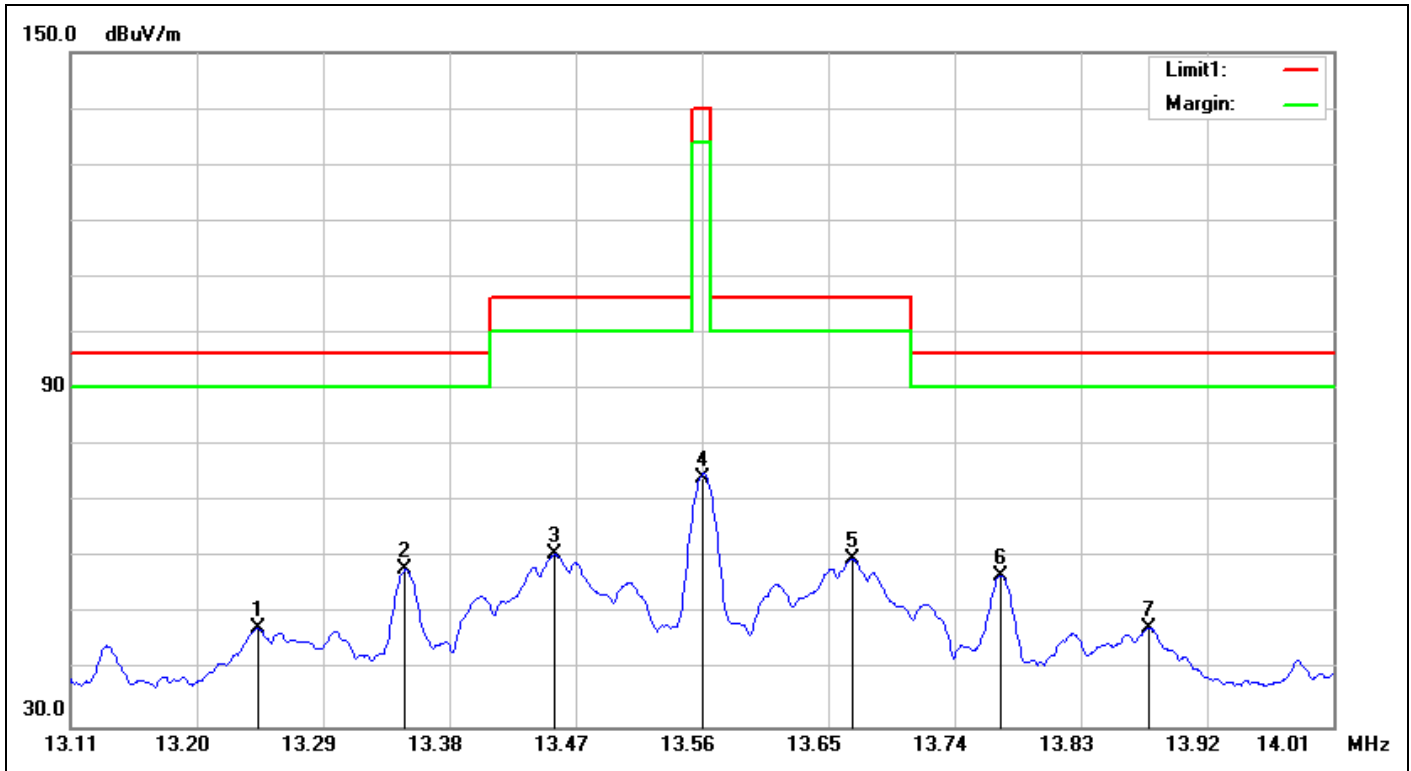
Emissions, Fundamental



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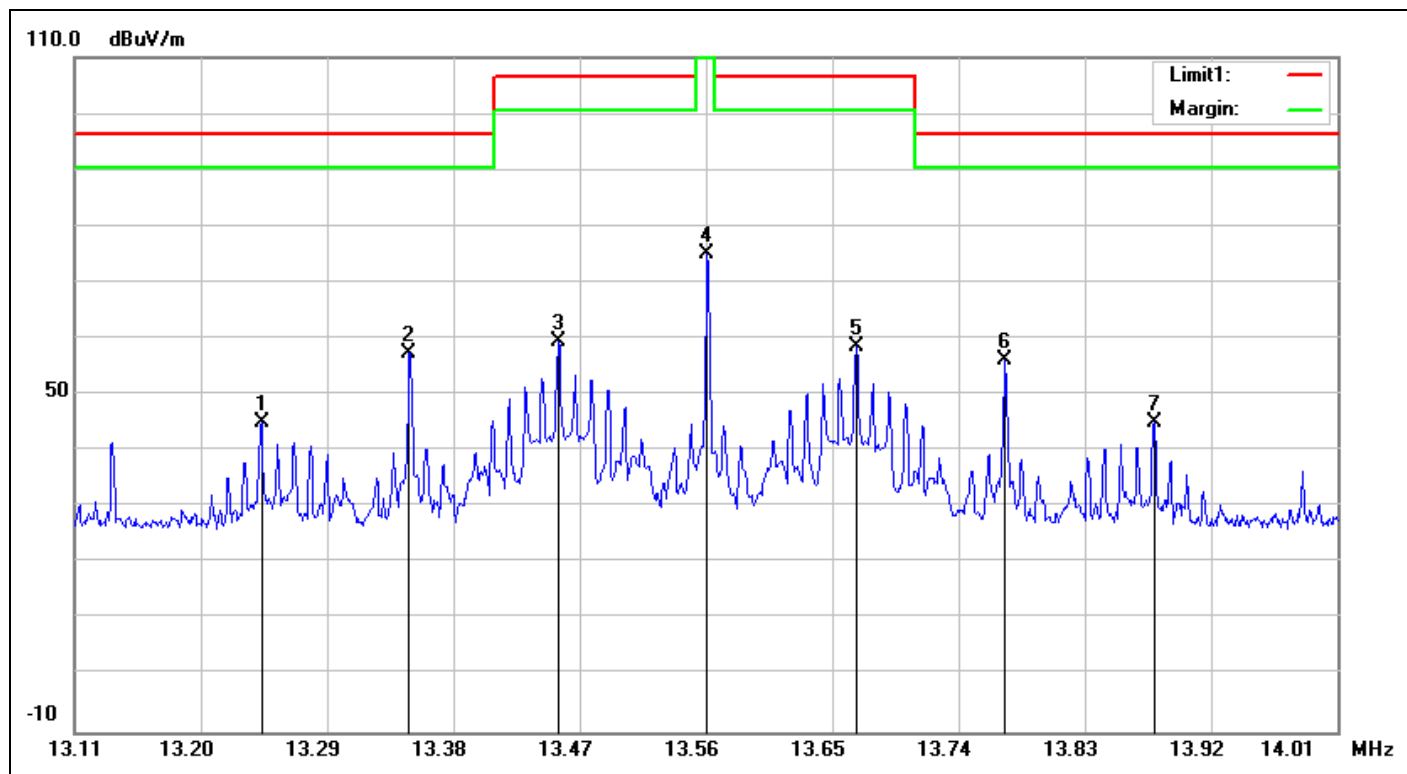
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Service No.:	114063843(PL2-RF)-FCC	Test Distance:	1.2m
Test Standard:	FCC 15.225_Fundamental_1.2m(dBuV/m)	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/6/7 14:04:40
Applicant:	Tong Lung	Test Rating:	DC 6V
Product:	Proximity Electronic Deadbolt	Temp.(°C)/Hum.(%):	24.1(°C)/52%
Model No.:	PL2-RF	Test Engineer:	George Yang
Test Mode:	TX		
Remark:	9k		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	13.2441	20.77	26.68	47.45	96.40	-48.95	QP			
2	13.3485	20.78	37.18	57.96	96.40	-38.44	QP			
3	13.4547	20.79	39.85	60.64	106.40	-45.76	QP			
4	13.5609	20.80	53.59	74.39	139.90	-65.51	QP			
5	13.6671	20.81	39.06	59.87	106.40	-46.53	QP			
6	13.7733	20.83	36.12	56.95	96.40	-39.45	QP			
7	13.8786	20.84	26.83	47.67	96.40	-48.73	QP			

Emissions, Fundamental



Service No.:	114063843(PL2-RF)-FCC	Test Distance:	1.2m
Test Standard:	FCC 15.225_Fundamental_1.2m(dBuV/m)	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/6/7 14:06:13
Applicant:	Tong Lung	Test Rating:	DC 6V
Product:	Proximity Electronic Deadbolt	Temp.(°C)/Hum.(%):	24.1(°C)/52%
Model No.:	PL2-RF	Test Engineer:	George Yang
Test Mode:	TX		
Remark:	1k		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	13.2432	20.77	24.31	45.08	96.40	-51.32	QP			
2	13.3485	20.78	36.67	57.45	96.40	-38.95	QP			
3	13.4547	20.79	38.54	59.33	106.40	-47.07	QP			
4	13.5609	20.80	54.23	75.03	139.90	-64.87	QP			
5	13.6671	20.81	37.73	58.54	106.40	-47.86	QP			
6	13.7733	20.83	35.46	56.29	96.40	-40.11	QP			
7	13.8795	20.84	24.17	45.01	96.40	-51.39	QP			

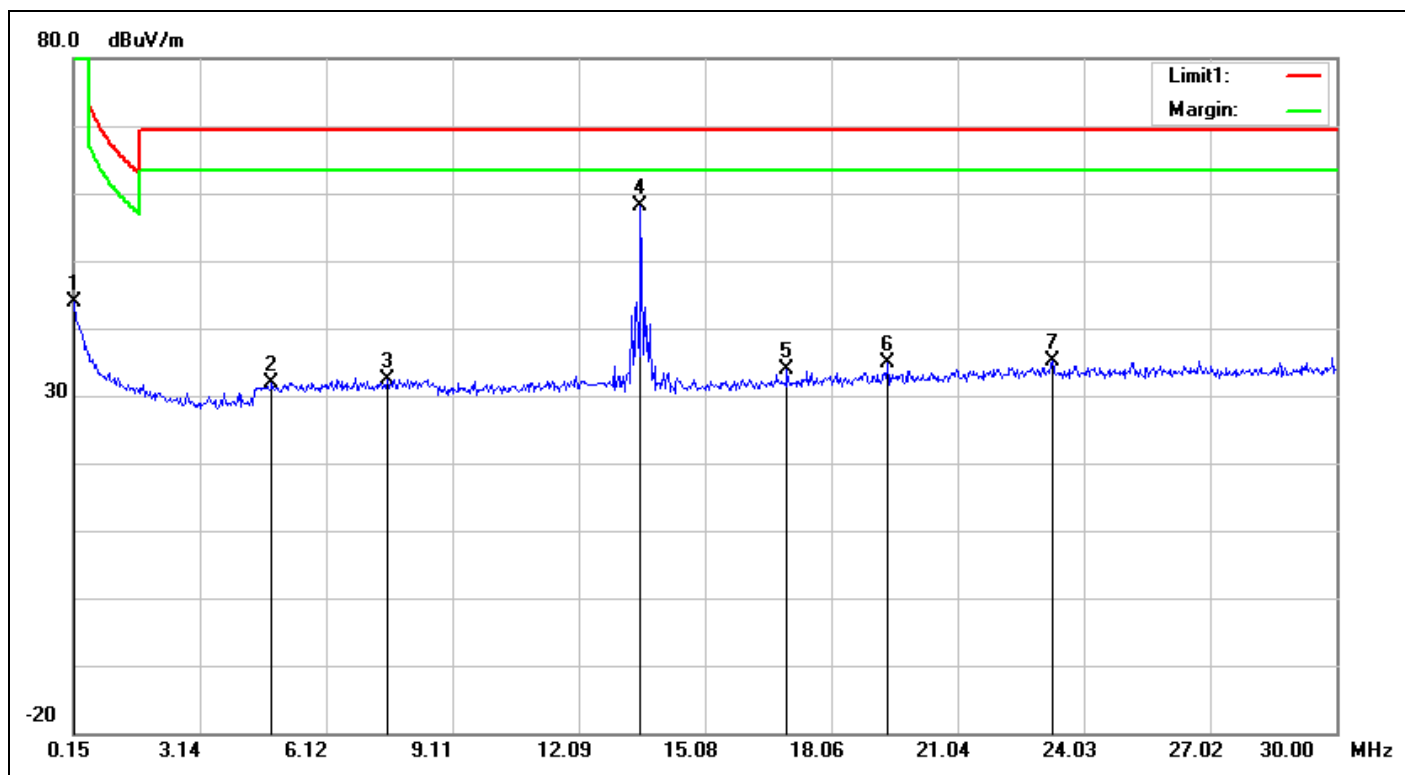
Spurious Emissions, TX Mode, 9K-30M



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Service No.: 114063843(PL2-RF)-FCC

Test Distance: 3m

Test Standard: FCC15.209_9k-1G_3m

Ant. Polarization:

Test item: Radiation Emission

Test Time: 2017/6/7 13:56:52

Applicant: Tong Lung

Test Rating: DC 6V

Product: Proximity Electronic Deadbolt

Temp.(°C)/Hum.(%): 24.1(°C)/52%

Model No.: PL2-RF

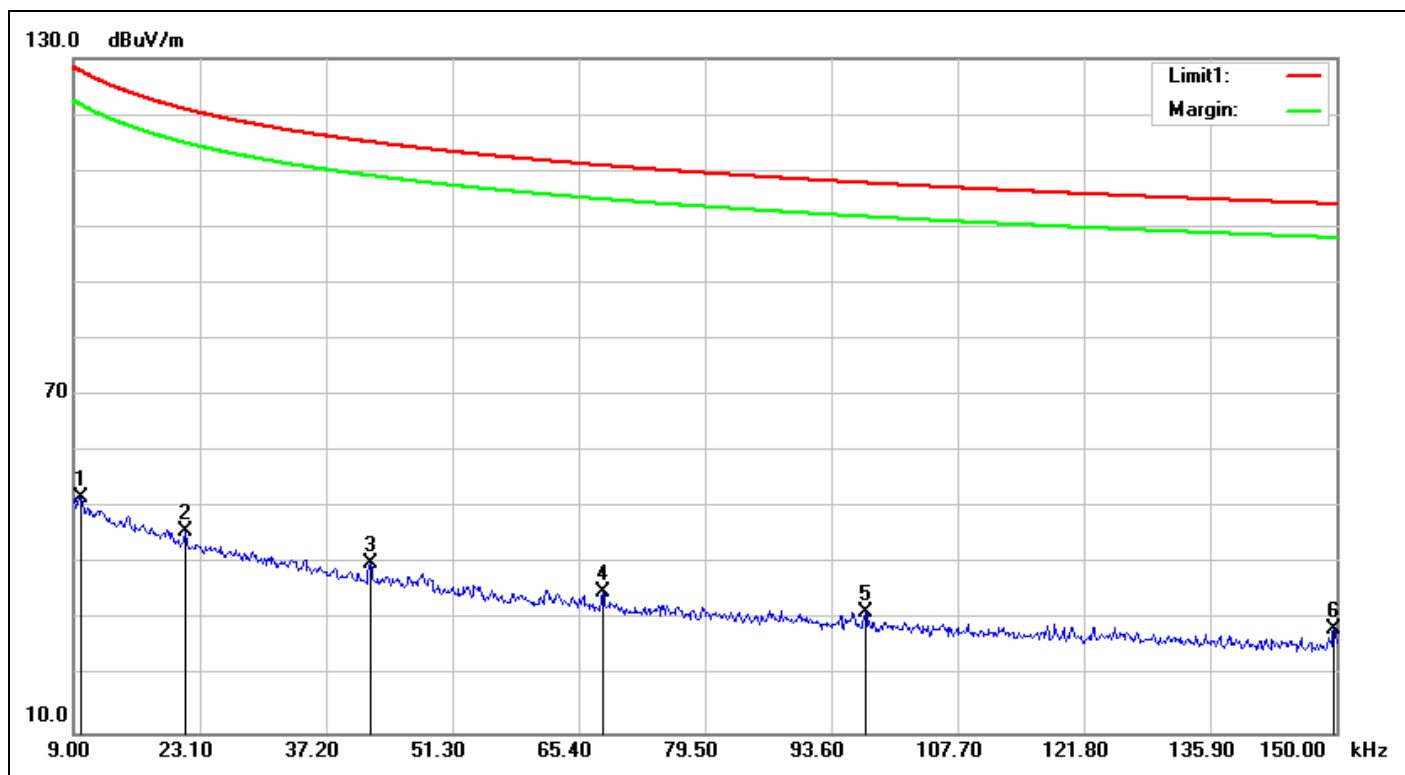
Test Engineer: George Yang

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	0.1799	18.77	25.16	43.93	102.50	-58.57	QP	100	186	
2	4.8365	19.54	12.27	31.81	69.50	-37.69	QP	100	275	
3	7.5827	20.00	12.49	32.49	69.50	-37.01	QP	100	12	
4	13.5600	20.80	37.21	58.01	69.50	-11.49	QP	100	360	TX
5	17.0153	21.20	12.63	33.83	69.50	-35.67	QP	100	67	
6	19.4033	21.48	13.41	34.89	69.50	-34.61	QP	100	100	
7	23.2838	21.79	13.35	35.14	69.50	-34.36	QP	100	29	

Spurious Emissions, TX Mode, 9K-30M



Service No.:	114063843(PL2-RF)-FCC	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/6/7 13:54:14
Applicant:	Tong Lung	Test Rating:	DC 6V
Product:	Proximity Electronic Deadbolt	Temp.(°C)/Hum.(%):	24.1(°C)/52%
Model No.:	PL2-RF	Test Engineer:	George Yang
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	0.0098	20.17	31.74	51.91	127.76	-75.85	QP	100	141	
2	0.0214	20.27	25.59	45.86	120.98	-75.12	QP	100	291	
3	0.0421	19.62	20.52	40.14	115.11	-74.97	QP	100	112	
4	0.0681	19.09	15.89	34.98	110.93	-75.95	QP	100	170	
5	0.0974	18.86	12.63	31.49	107.83	-76.34	QP	100	93	
6	0.1497	18.80	9.72	28.52	104.09	-75.57	QP	100	149	

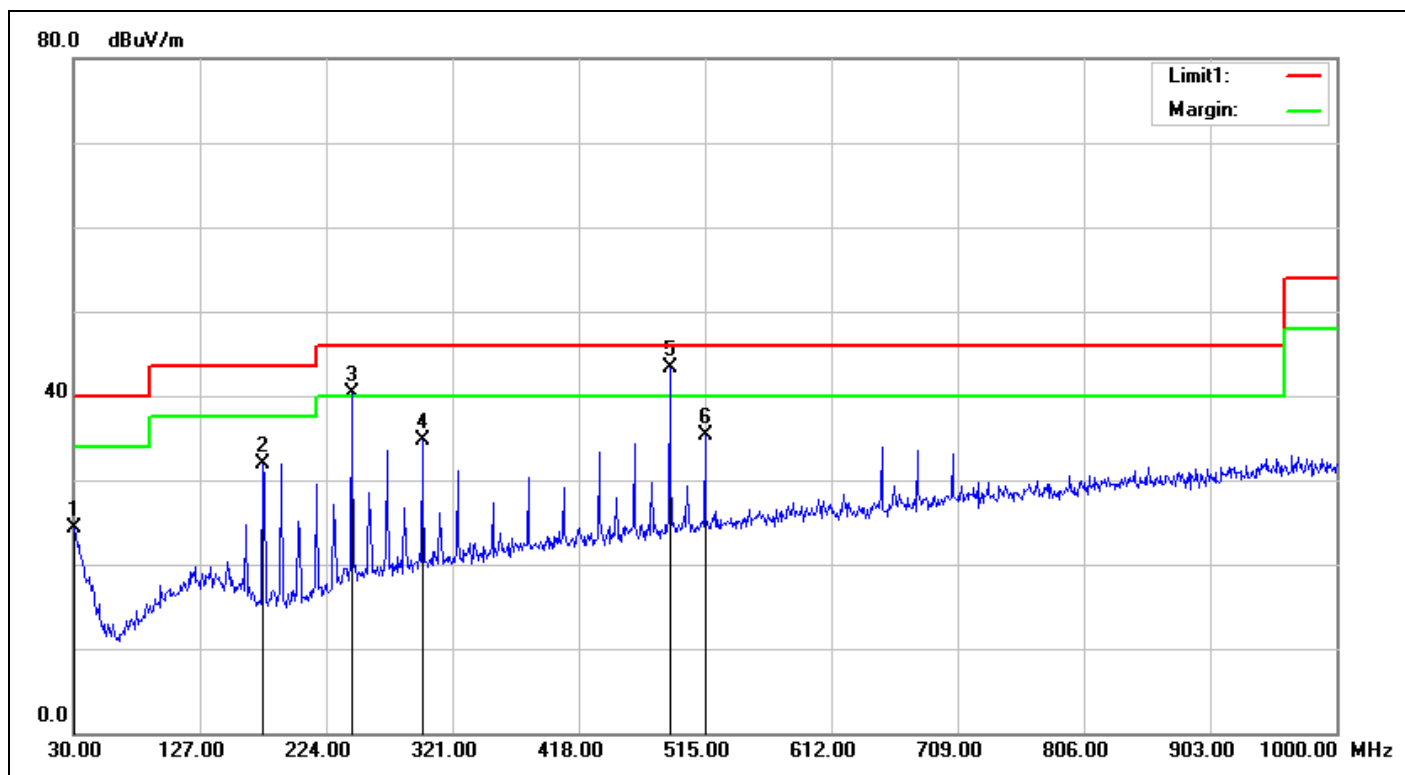
Spurious Emissions, TX Mode, 30M-1G



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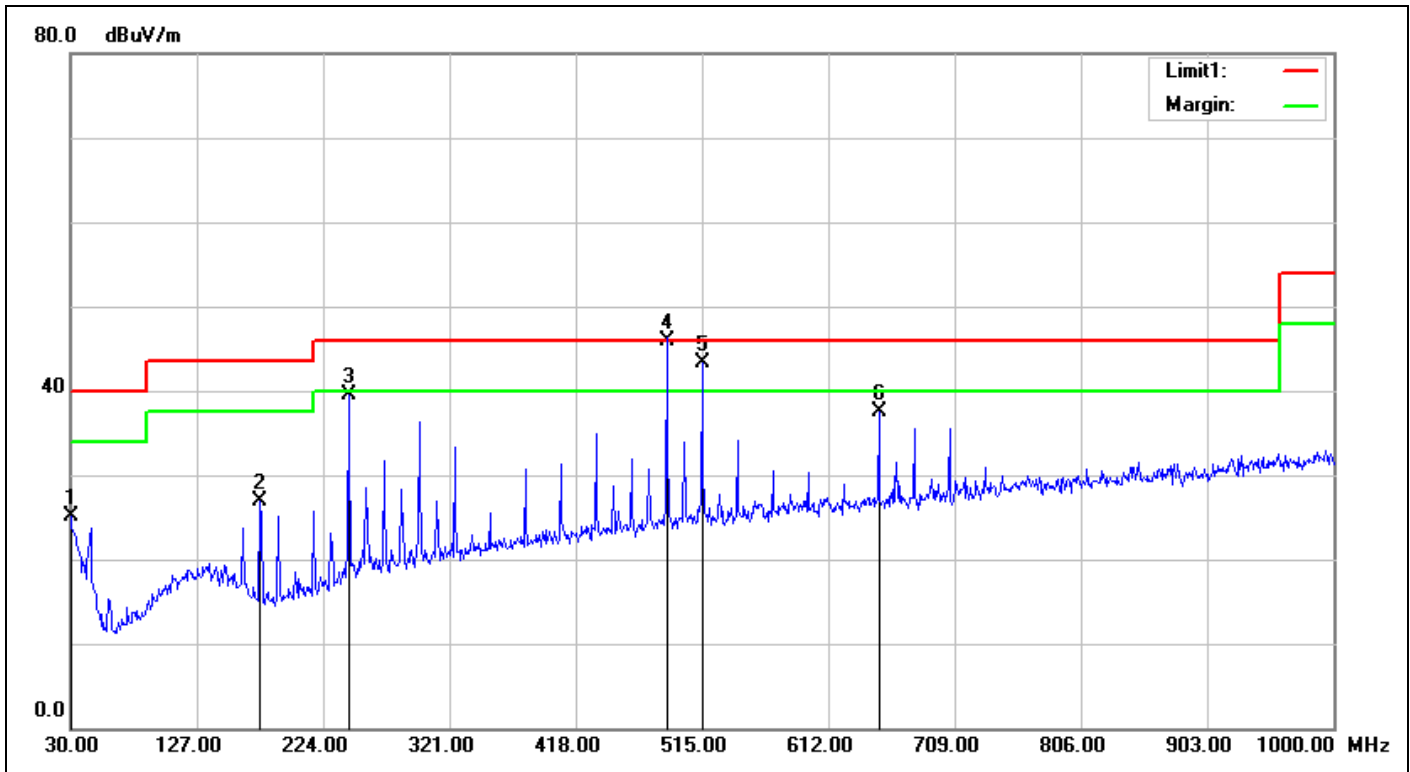
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Service No.:	114063843(PL2-RF)-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/6/7 13:44:04
Applicant:	Tong Lung	Test Rating:	DC 6V
Product:	Proximity Electronic Deadbolt	Temp.(°C)/Hum.(%)	24.1(°C)/52%
Model No.:	PL2-RF	Test Engineer:	George Yang
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	30.9700	-0.62	24.85	24.23	40.00	-15.77	QP	100	143	
2	175.5000	-9.35	41.26	31.91	43.50	-11.59	QP	100	273	
3	243.4000	-6.36	46.61	40.25	46.00	-5.75	QP	100	82	
4	297.7200	-4.54	39.34	34.80	46.00	-11.20	QP	100	265	
5	487.8400	-1.53	44.86	43.33	46.00	-2.67	QP	100	91	
6	515.0000	-1.20	36.58	35.38	46.00	-10.62	QP	100	265	

Spurious Emissions, TX Mode, 30M-1G



Service No.: 114063843(PL2-RF)-FCC
 Test Standard: FCC Class B 3M Radiation
 Test item: Radiation Emission
 Applicant: Tong Lung
 Product: Proximity Electronic Deadbolt
 Model No.: PL2-RF
 Test Mode: TX
 Remark:

Test Distance: 3m
 Ant. Polarization: Vertical
 Test Time: 2017/6/7 13:45:08
 Test Rating: DC 6V
 Temp.(°C)/Hum.(%): 24.1(°C)/52%
 Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.07	25.12	25.05	40.00	-14.95	QP	100	358	
2	175.5000	-9.35	36.18	26.83	43.50	-16.67	QP	100	159	
3	243.4000	-6.36	45.92	39.56	46.00	-6.44	QP	100	360	
4	487.8400	-1.53	47.48	45.95	46.00	-0.05	QP	100	192	
5	515.0000	-1.20	44.48	43.28	46.00	-2.72	QP	100	189	
6	650.8000	0.56	36.92	37.48	46.00	-8.52	QP	100	17	