

Appendix D: Test Results of Radiated

APPENDIX D: TEST RESULTS OF RADIATED.....	1
APPENDIX D.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS.....	2
DTSs#1 (BLE).....	2
30 MHz to 1GHz.....	2
1GHz to 18GHz.....	6
Band Edge, Low Channel.....	12
Band Edge, High Channel.....	14
DTSs#2 (BANDWIDTH: 500KHz).....	16
30 MHz to 1GHz.....	16
1GHz to 18GHz.....	22
DTSs#3 (BANDWIDTH: 500KHz).....	28
30 MHz to 1GHz.....	28
1GHz to 18GHz.....	34
DTSs#4 (BANDWIDTH: 500KHz).....	40
30 MHz to 1GHz.....	40
1GHz to 18GHz.....	46
FHSs#1 (BANDWIDTH: 250KHz).....	52
30 MHz to 1GHz.....	52
1GHz to 18GHz.....	58
FHSs#2 (BANDWIDTH: 125KHz).....	64
30 MHz to 1GHz.....	64
1GHz to 18GHz.....	70
FHSs#3 (DATA RATE: 150KBPS).....	76
30 MHz to 1GHz.....	76
1GHz to 18GHz.....	82
FHSs#4 (DATA RATE: 50KBPS).....	88
30 MHz to 1GHz.....	88
1GHz to 18GHz.....	94
FHSs#5 (DATA RATE: 5KBPS).....	100
30 MHz to 1GHz.....	100
1GHz to 18GHz.....	106

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix D.1: Test Results of Radiated Spurious Emissions

DTSS#1(BLE)
30 MHz to 1GHz

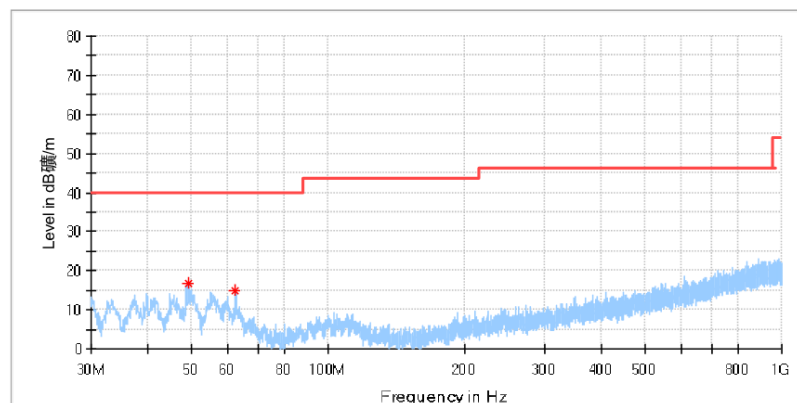
Test

1 / 4

Test Report

EUT Information

EUT Name:	Ring SmartLightbulb(PAR38)
Model:	PAR38
Test Mode:	TX BT High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.351500	16.67	---	40.00	23.33	100.0	H	80.0	-18.6
62.495000	14.76	---	40.00	25.24	100.0	H	113.0	-19.9

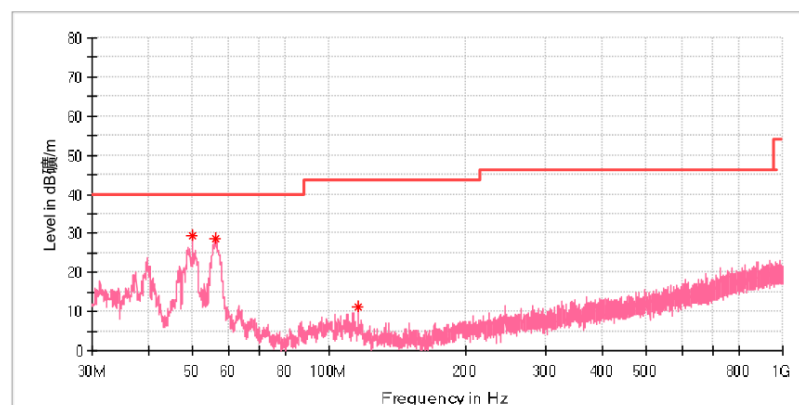
Test

2 / 4

Test Report

EUT Information

EUT Name:	Ring SmartLightbulb(PAR38)
Model:	PAR38
Test Mode:	TX BT High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	29.31	---	40.00	10.69	100.0	V	110.0	-18.6
56.141500	28.70	---	40.00	11.30	100.0	V	135.0	-18.9
115.602500	11.14	---	43.50	32.36	100.0	V	0.0	-20.2

23/10/2019

5:46:18 PM

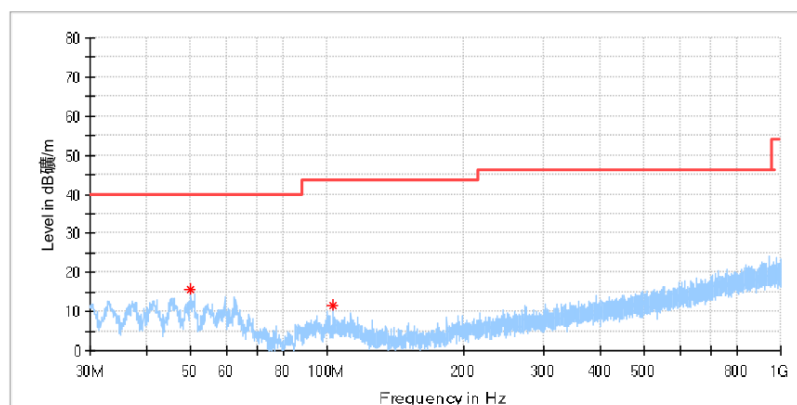
Test

3 / 4

Test Report

EUT Information

EUT Name:	Ring SmartLightbulb(PAR38)
Model:	PAR38
Test Mode:	TX BT Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	15.46	---	40.00	24.54	100.0	H	87.0	-18.6
103.138000	11.41	---	43.50	32.09	100.0	H	316.0	-19.2

23/10/2019

5:46:18 PM

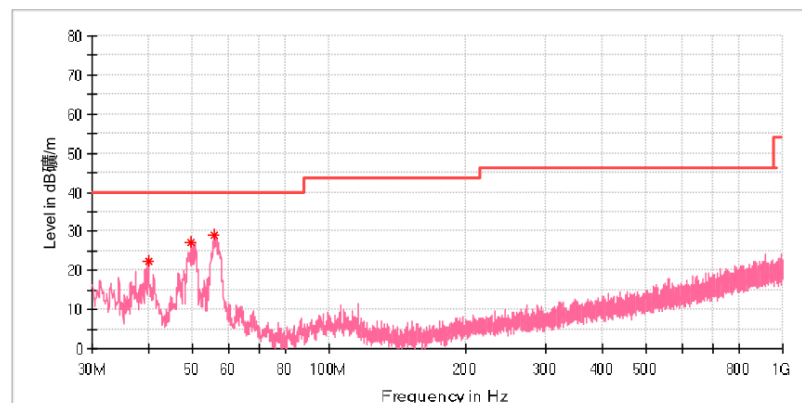
Test

4 / 4

Test Report

EUT Information

EUT Name:	Ring SmartLightbulb(PAR38)
Model:	PAR38
Test Mode:	TX BT Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.942500	22.48	---	40.00	17.52	100.0	V	0.0	-20.4
49.691000	27.03	---	40.00	12.97	100.0	V	45.0	-18.6
55.947500	29.17	---	40.00	10.83	100.0	V	349.0	-18.8

23/10/2019

5:46:18 PM

1GHz to 18GHz

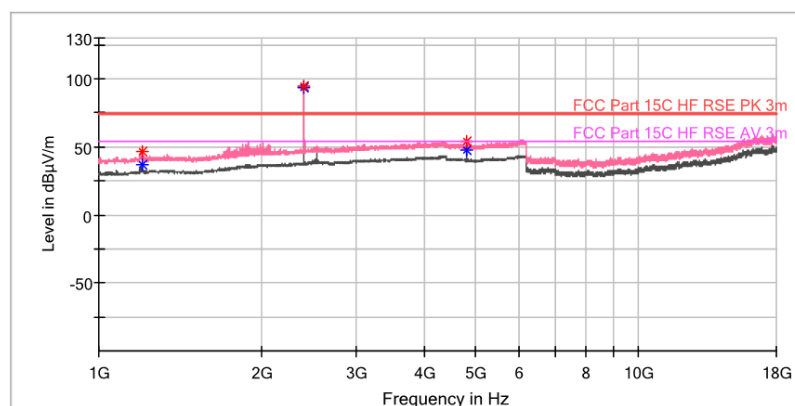
Test

1 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1203.000000	---	36.94	54.00	17.06	100.0	V	25.0	1.2
1203.000000	46.78	---	74.00	27.22	100.0	V	25.0	1.2
2402.000000	---	94.11	54.00	-40.11	100.0	V	54.0	7.0
2402.000000	95.19	---	74.00	-21.19	100.0	V	54.0	7.0
4804.000000	---	48.07	54.00	5.93	100.0	V	355.0	13.6
4804.000000	53.56	---	74.00	20.44	100.0	V	355.0	13.6

16/10/2019

4:55:05 PM

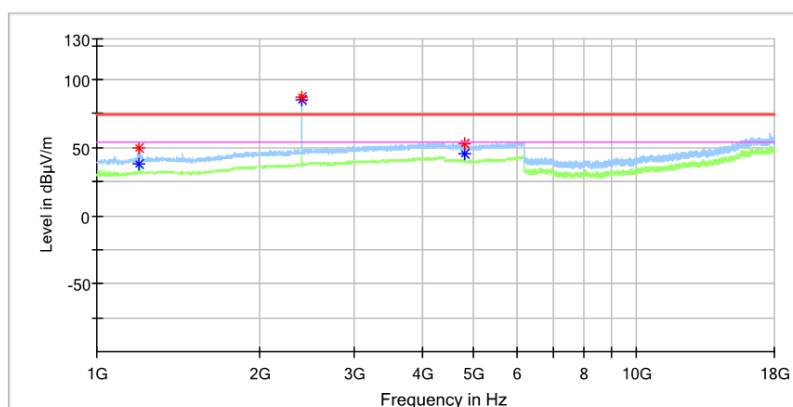
Test

2 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.000000	---	38.49	54.00	15.51	100.0	H	257.0	1.1
1200.000000	49.77	---	74.00	24.23	100.0	H	257.0	1.1
2401.500000	---	85.55	54.00	-31.55	100.0	H	11.0	7.0
2401.500000	87.13	---	74.00	-13.13	100.0	H	11.0	7.0
4804.000000	---	46.02	54.00	7.98	100.0	H	175.0	13.6
4804.000000	52.95	---	74.00	21.05	100.0	H	175.0	13.6

16/10/2019

4:55:05 PM

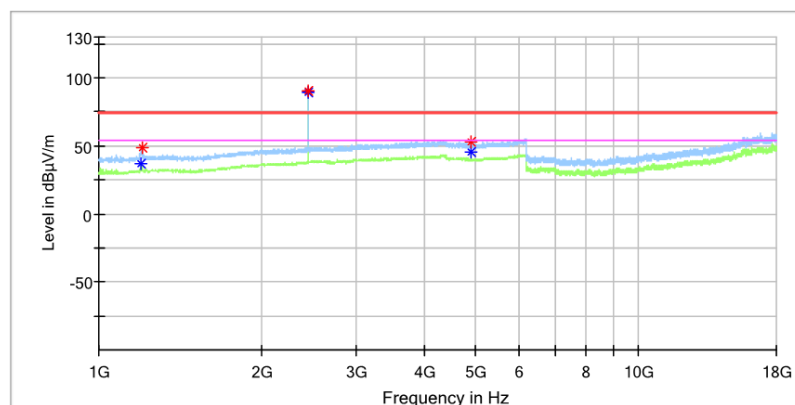
Test

3 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.500000	---	36.45	54.00	17.55	100.0	H	359.0	1.1
1201.500000	49.05	---	74.00	24.95	100.0	H	229.0	1.2
2440.000000	89.97	---	74.00	-15.97	100.0	H	200.0	7.4
2440.000000	---	89.20	54.00	-35.20	100.0	H	200.0	7.4
4879.500000	52.49	---	74.00	21.51	100.0	H	242.0	13.4
4880.000000	---	45.45	54.00	8.55	100.0	H	203.0	13.4

16/10/2019

4:55:05 PM

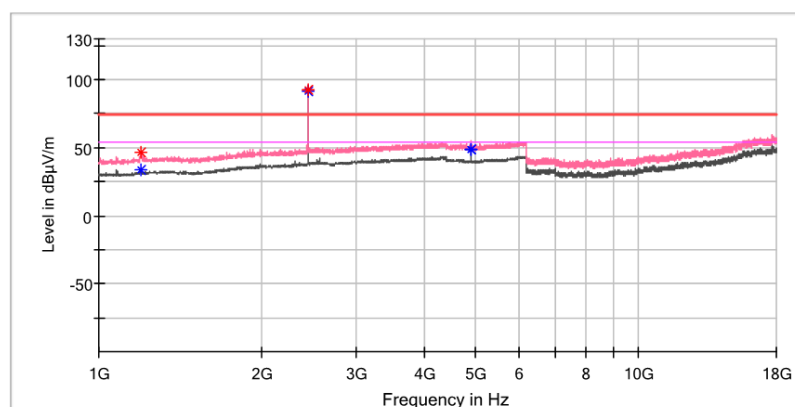
Test

4 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.000000	---	33.93	54.00	20.07	100.0	V	97.0	1.1
1200.000000	46.96	---	74.00	27.04	100.0	V	106.0	1.1
2440.000000	---	91.92	54.00	-37.92	100.0	V	25.0	7.4
2440.000000	92.92	---	74.00	-18.92	100.0	V	25.0	7.4
4880.000000	---	49.01	54.00	4.99	100.0	V	105.0	13.4
4880.000000	---	49.01	54.00	4.99	100.0	V	105.0	13.4

16/10/2019

4:55:05 PM

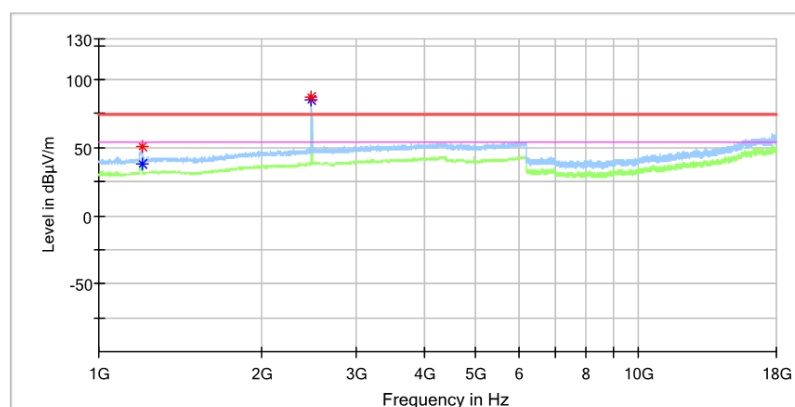
Test

5 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1202.500000	---	38.40	54.00	15.60	100.0	H	330.0	1.2
1202.500000	50.65	---	74.00	23.35	100.0	H	330.0	1.2
2479.500000	---	84.70	54.00	-30.70	100.0	H	125.0	7.4
2479.500000	86.97	---	74.00	-12.97	100.0	H	125.0	7.4

16/10/2019

4:55:05 PM

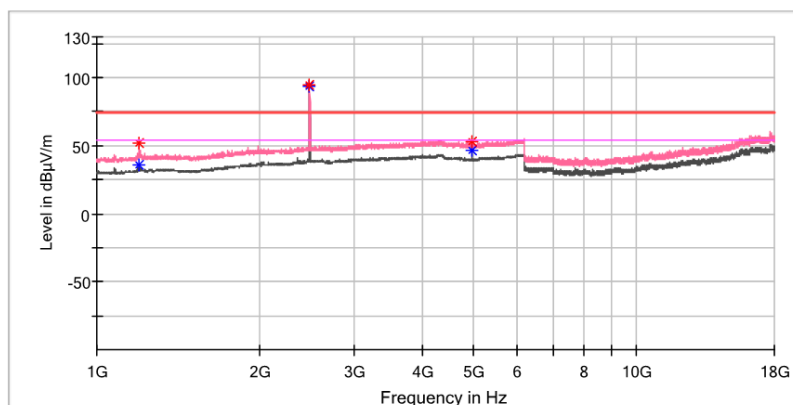
Test

6 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.500000	---	35.79	54.00	18.21	100.0	V	341.0	1.1
1199.000000	51.53	---	74.00	22.47	100.0	V	15.0	1.1
2480.000000	---	93.28	54.00	-39.28	100.0	V	244.0	7.4
2480.000000	94.41	---	74.00	-20.41	100.0	V	244.0	7.4
4959.500000	52.67	---	74.00	21.33	100.0	V	65.0	13.2
4960.000000	---	46.10	54.00	7.90	100.0	V	162.0	13.2

16/10/2019

4:55:05 PM

Band Edge, Low Channel

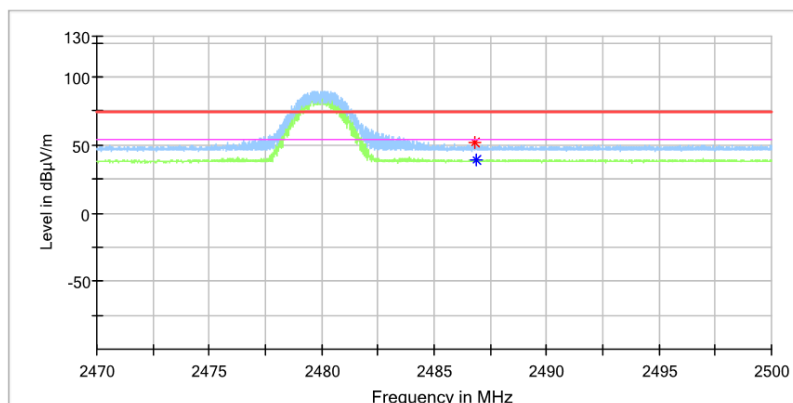
Test

3 / 4

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.822059	51.75	---	74.00	22.25	100.0	H	205.0	7.4
2486.888235	---	38.81	54.00	15.19	100.0	H	354.0	7.4

16/10/2019

4:48:16 PM

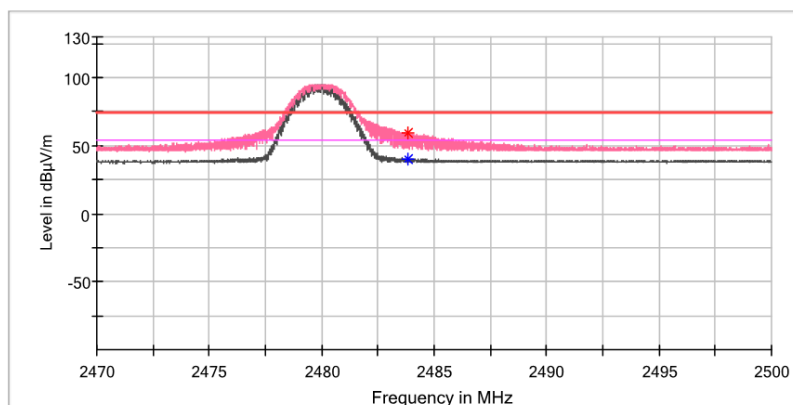
Test

4 / 4

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.844118	---	39.76	54.00	14.24	100.0	V	245.0	7.4
2483.857353	59.61	---	74.00	14.39	100.0	V	3.0	7.4

16/10/2019

4:48:16 PM

Band Edge, High Channel

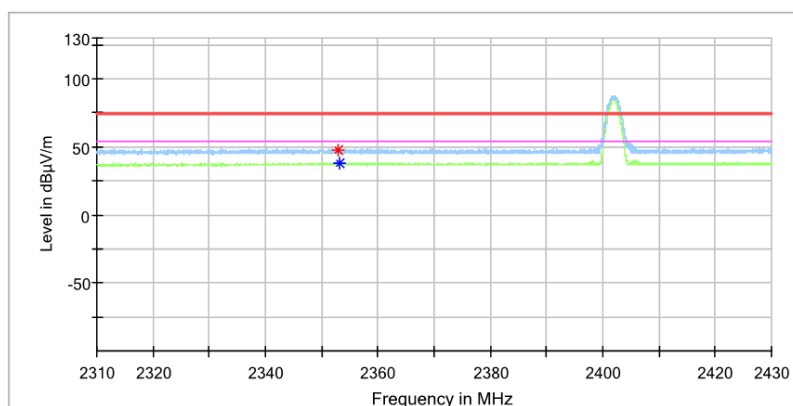
Test

1 / 4

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2353.041177	48.15	---	74.00	25.85	100.0	H	2.0	6.9
2353.094118	---	37.63	54.00	16.37	100.0	H	215.0	6.9

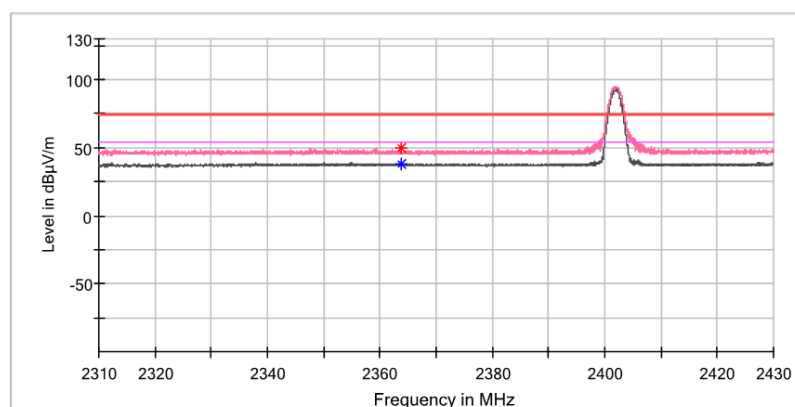
Test

2 / 4

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2363.876471	49.29	---	74.00	24.71	100.0	V	179.0	6.9
2363.911765	---	37.92	54.00	16.08	100.0	V	100.0	6.9

16/10/2019

4:48:16 PM

DTSS#2 (Bandwidth: 500KHz)
30 MHz to 1GHz

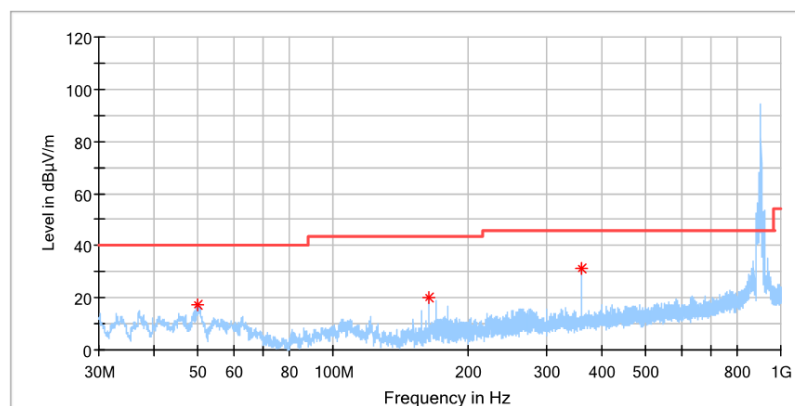
Test

1 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.030500	17.42	---	40.00	22.58	100.0	H	169.0	-18.6
163.957000	19.96	---	43.50	23.54	100.0	H	298.0	-21.8
359.945500	31.52	---	46.00	14.48	100.0	H	339.0	-15.0

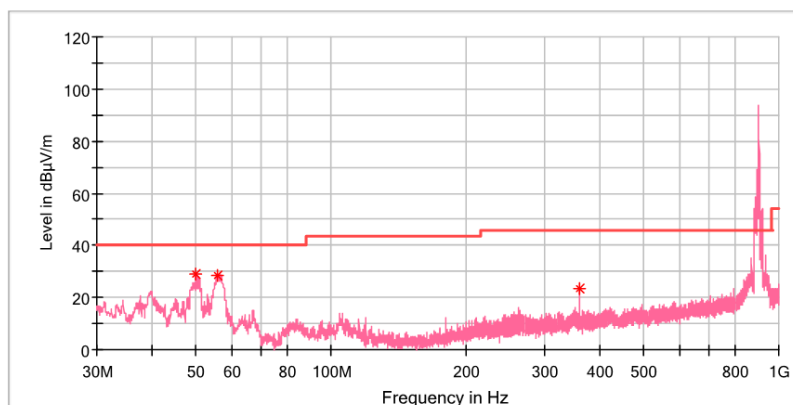
Test

2 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.030500	28.93	---	40.00	11.07	100.0	V	102.0	-18.6
55.802000	28.68	---	40.00	11.32	100.0	V	211.0	-18.8
359.945500	23.52	---	46.00	22.48	100.0	V	183.0	-15.0

23/10/2019

10:19:55 PM

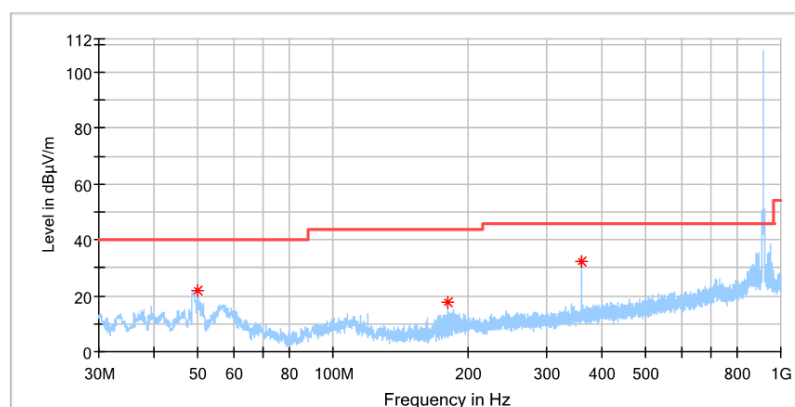
Test

3 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23.9 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	21.73	---	40.00	18.27	100.0	H	67.0	-18.6
179.962000	17.57	---	43.50	25.93	100.0	H	280.0	-20.8
359.945500	32.26	---	46.00	13.74	100.0	H	302.0	-15.0

23/10/2019

10:19:55 PM

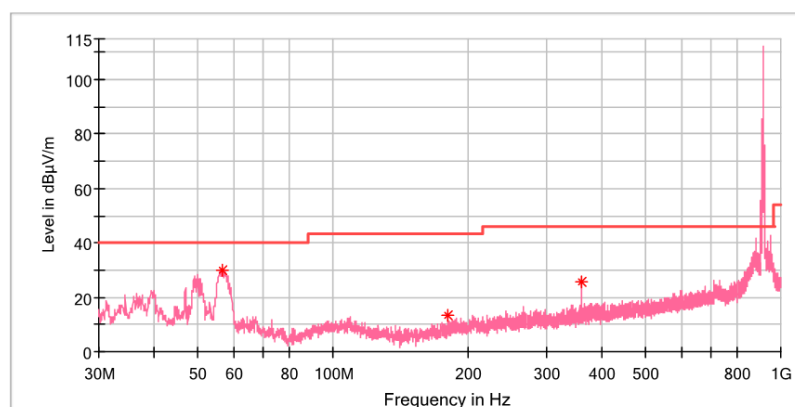
Test

4 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23.9 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.432500	30.03	---	40.00	9.97	100.0	V	0.0	-18.9
180.010500	13.48	---	43.50	30.02	100.0	V	326.0	-20.8
359.945500	25.92	---	46.00	20.08	100.0	V	356.0	-15.0

23/10/2019

10:19:55 PM

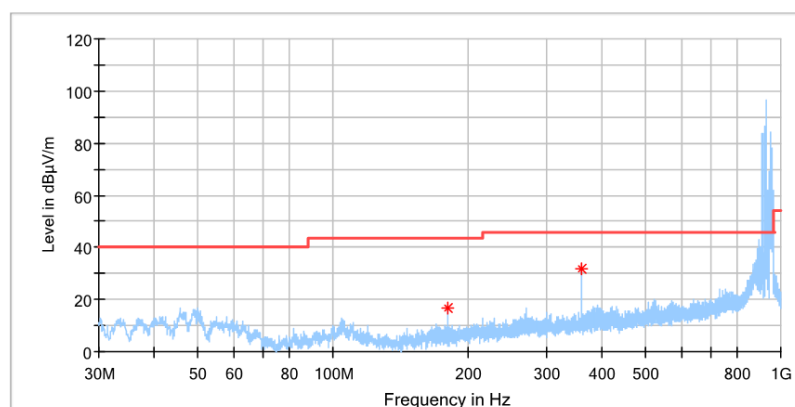
Test

5 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
179.962000	16.99	---	43.50	26.51	100.0	H	263.0	-20.8
359.945500	31.82	---	46.00	14.18	100.0	H	332.0	-15.0

23/10/2019

10:19:55 PM

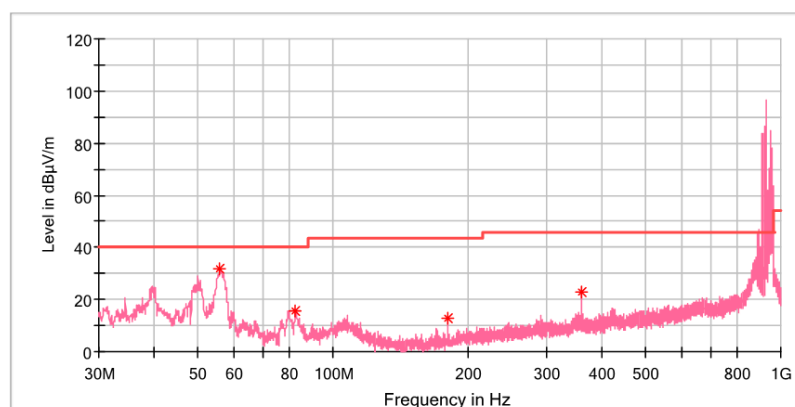
Test

6 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.996000	31.64	---	40.00	8.36	100.0	V	328.0	-18.8
82.574000	15.55	---	40.00	24.45	100.0	V	272.0	-23.2
179.962000	12.97	---	43.50	30.53	100.0	V	207.0	-20.8
359.945500	23.08	---	46.00	22.92	100.0	V	197.0	-15.0

23/10/2019

10:19:55 PM

1GHz to 18GHz

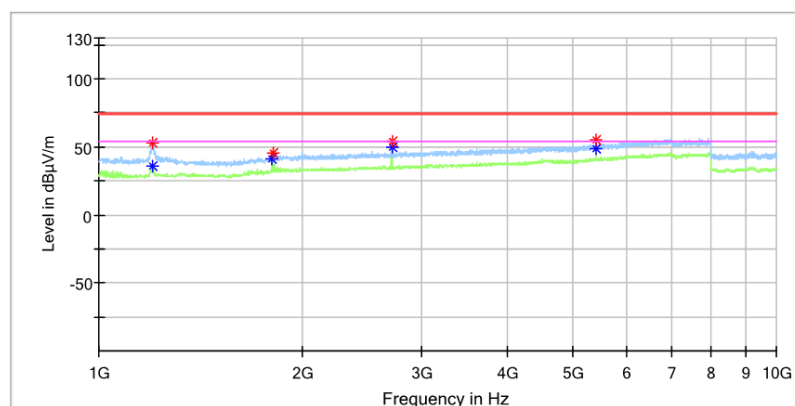
Test

1 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.500000	---	36.38	54.00	17.62	100.0	H	227.0	1.1
1203.000000	53.01	---	74.00	20.99	100.0	H	303.0	1.2
1804.175000	---	41.17	54.00	12.83	100.0	H	66.0	4.7
1805.012500	45.27	---	74.00	28.73	100.0	H	66.0	4.8
2707.837500	---	49.90	54.00	4.10	100.0	H	148.0	7.6
2707.837500	53.68	---	74.00	20.32	100.0	H	148.0	7.6
5416.312500	54.81	---	74.00	19.19	100.0	H	301.0	13.5
5416.312500	---	49.05	54.00	4.95	100.0	H	301.0	13.5

17/10/2019

9:20:32 PM

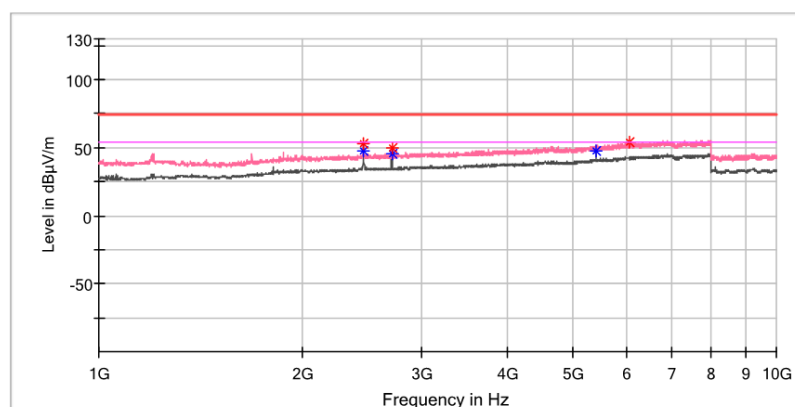
Test

2 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2455.750000	52.45	---	74.00	21.55	100.0	V	317.0	7.5
2455.750000	---	47.24	54.00	6.76	100.0	V	317.0	7.5
2707.000000	50.04	---	74.00	23.96	100.0	V	120.0	7.6
2707.000000	---	45.85	54.00	8.15	100.0	V	120.0	7.6
5415.475000	---	48.09	54.00	5.91	100.0	V	359.0	13.5
6071.237500	54.52	---	74.00	19.48	100.0	V	237.0	15.3

17/10/2019

9:20:32 PM

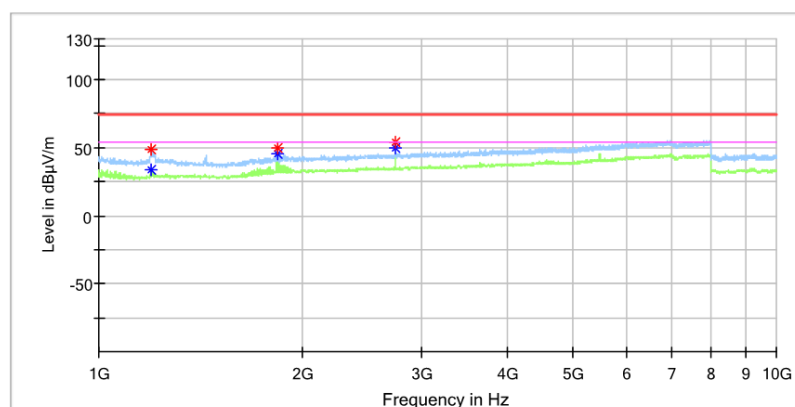
Test

3 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.500000	49.12	---	74.00	24.88	100.0	H	239.0	1.1
1197.000000	---	33.77	54.00	20.23	100.0	H	233.0	1.1
1832.650000	---	45.70	54.00	8.30	100.0	H	129.0	4.9
1832.650000	49.89	---	74.00	24.11	100.0	H	129.0	4.9
2743.012500	---	49.59	54.00	4.41	100.0	H	120.0	7.8
2743.012500	53.63	---	74.00	20.37	100.0	H	120.0	7.8

17/10/2019

9:20:32 PM

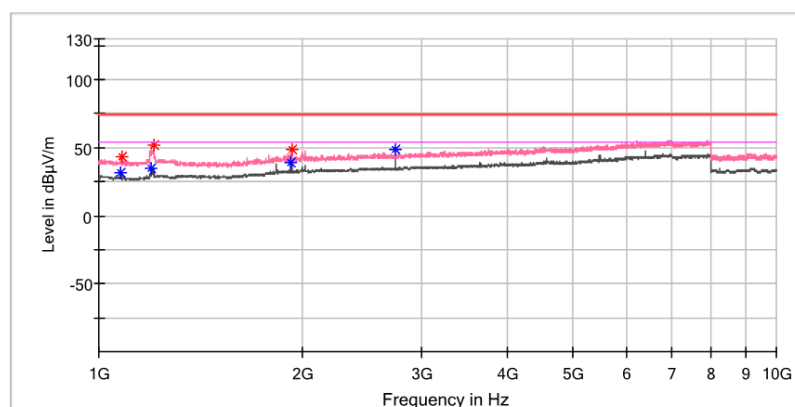
Test

4 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1078.500000	---	31.62	54.00	22.38	100.0	V	41.0	-0.2
1080.500000	43.33	---	74.00	30.67	100.0	V	35.0	-0.2
1195.000000	---	35.16	54.00	18.84	100.0	V	106.0	1.1
1205.000000	51.55	---	74.00	22.45	100.0	V	117.0	1.2
1923.937500	---	39.35	54.00	14.65	100.0	V	133.0	5.6
1926.450000	48.25	---	74.00	25.75	100.0	V	151.0	5.6
2743.012500	---	48.35	54.00	5.65	100.0	V	175.0	7.8

17/10/2019

9:20:32 PM

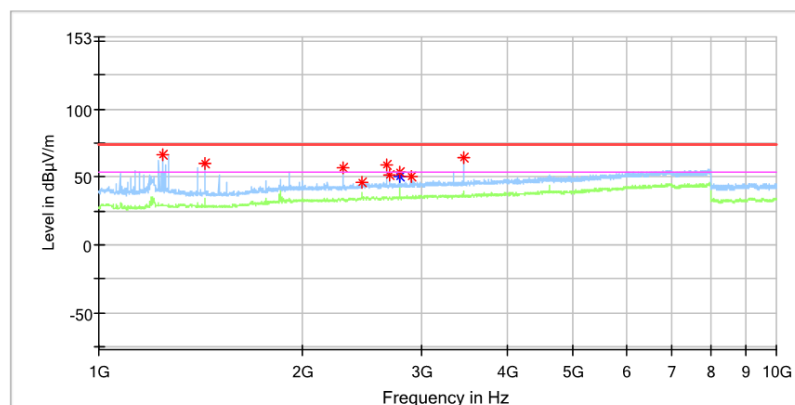
Test

5 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1242.000000	66.81	---	74.00	7.19	100.0	H	11.0	1.8
1434.837500	60.42	---	74.00	13.58	100.0	H	39.0	1.5
2289.925000	57.25	---	74.00	16.75	100.0	H	47.0	6.4
2440.675000	45.91	---	74.00	28.09	100.0	H	325.0	7.4
2660.937500	58.59	---	74.00	15.41	100.0	H	56.0	7.6
2686.062500	51.04	---	74.00	22.96	100.0	H	81.0	7.5
2779.862500	53.28	---	74.00	20.72	100.0	H	325.0	7.9
2779.862500	---	49.87	54.00	4.13	100.0	H	325.0	7.9
2886.225000	50.30	---	74.00	23.70	100.0	H	355.0	8.2
3460.750000	64.08	---	74.00	9.92	100.0	H	73.0	8.8

17/10/2019

9:20:32 PM

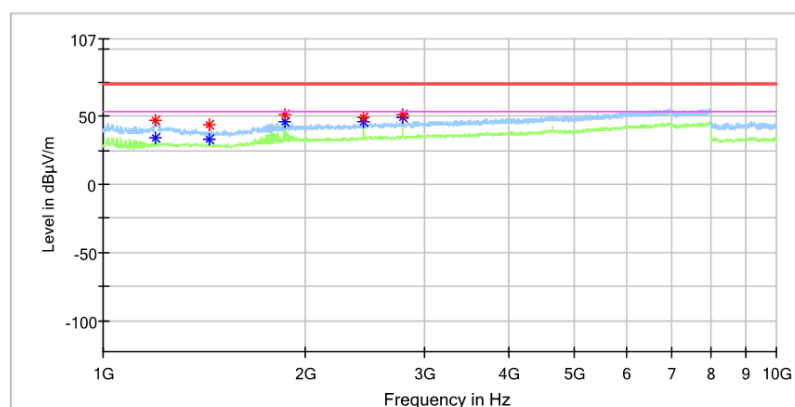
Test

6 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1194.000000	---	33.81	54.00	20.19	100.0	V	229.0	1.1
1194.500000	47.38	---	74.00	26.62	100.0	V	229.0	1.1
1439.025000	---	32.86	54.00	21.14	100.0	V	293.0	1.5
1439.025000	44.27	---	74.00	29.73	100.0	V	293.0	1.5
1859.450000	---	46.54	54.00	7.46	100.0	V	225.0	5.1
1859.450000	51.38	---	74.00	22.62	100.0	V	225.0	5.1
2440.675000	---	45.63	54.00	8.37	100.0	V	159.0	7.4
2440.675000	49.54	---	74.00	24.46	100.0	V	159.0	7.4
2783.212500	51.76	---	74.00	22.24	100.0	V	29.0	7.9
2783.212500	---	48.83	54.00	5.17	100.0	V	29.0	7.9

17/10/2019

9:20:32 PM

DTSS#3 (Bandwidth: 500KHz)
30 MHz to 1GHz

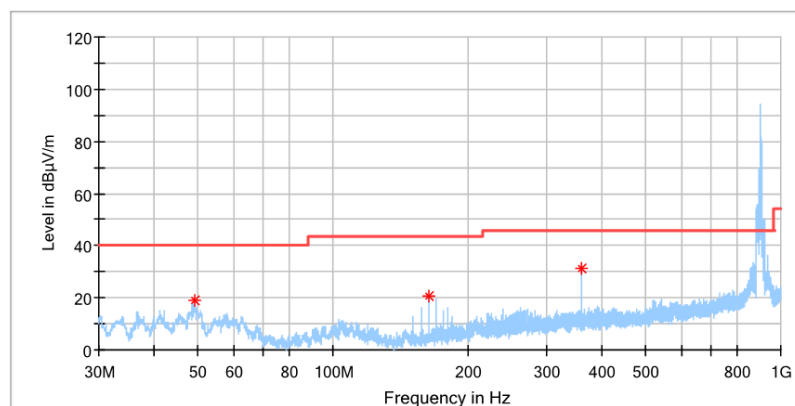
Test

1 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.060500	19.14	---	40.00	20.86	100.0	H	174.0	-18.6
163.908500	20.81	---	43.50	22.69	100.0	H	282.0	-21.9
359.994000	31.07	---	46.00	14.93	100.0	H	331.0	-15.0

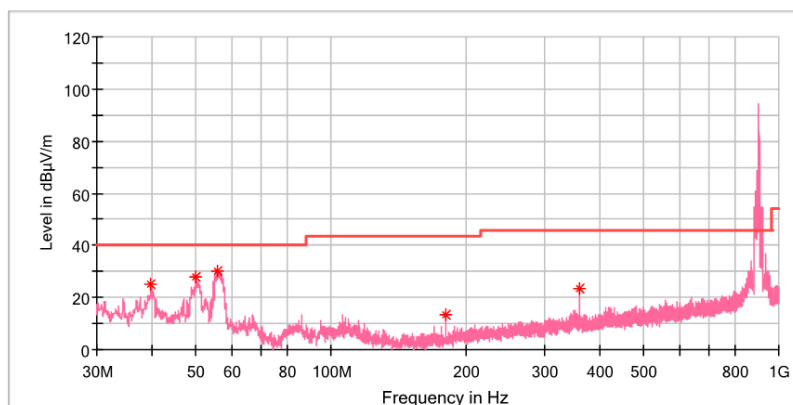
Test

2 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.800000	24.92	---	40.00	15.08	100.0	V	45	-20.5
49.982000	28.12	---	40.00	11.88	100.0	V	176	-18.6
55.624000	30.00	---	40.00	10.00	100.0	V	0.0	-18.8
180.010500	13.33	---	43.50	30.17	100.0	V	172	-20.8
359.975500	23.36	---	46.00	22.64	100.0	V	201	-15.0

23/10/2019

10:34:46 PM

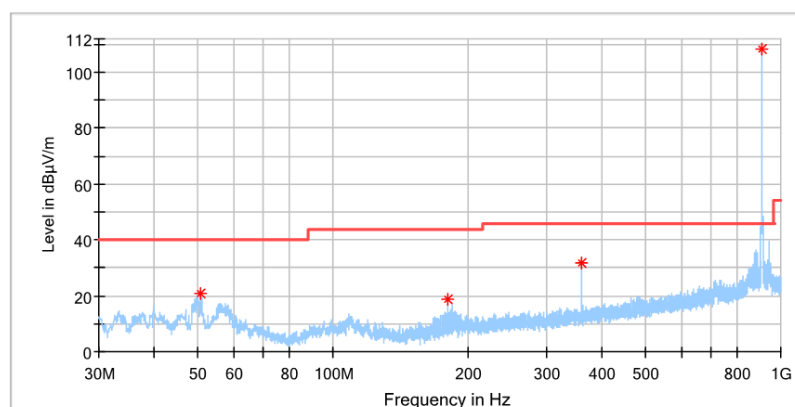
Test

3 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23.9 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.758000	20.72	---	40.00	19.28	100.0	H	85.0	-18.6
179.962000	18.83	---	43.50	24.67	100.0	H	251.0	-20.8
359.945500	31.85	---	46.00	14.15	100.0	H	286.0	-15.0
907.801500	108.35	---	46.00	-62.35	100.0	H	156.0	-5.3

23/10/2019

10:34:46 PM

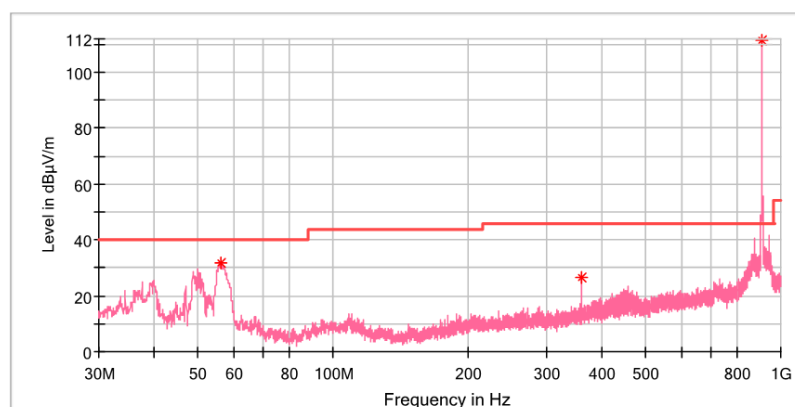
Test

4 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23.9 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.044500	31.53	---	40.00	8.47	100.0	V	327.0	-18.8
359.945500	26.70	---	46.00	19.30	100.0	V	0.0	-15.0

23/10/2019

10:34:46 PM

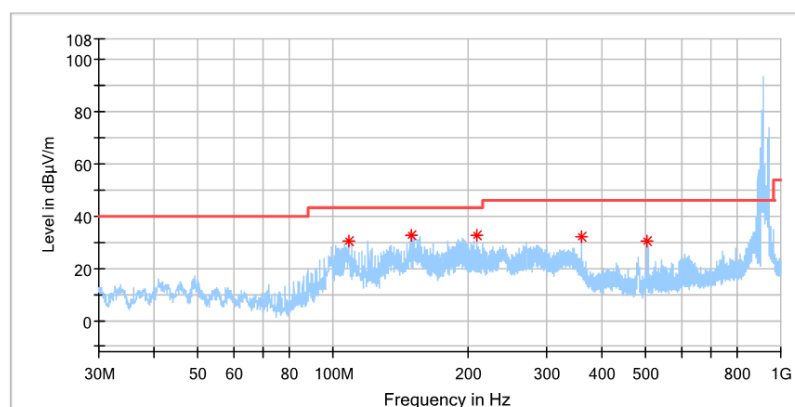
Test

5 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
108.230500	30.65	---	43.50	12.85	100.0	H	279.0	-19.3
150.231500	32.51	---	43.50	10.99	100.0	H	106.0	-22.5
209.983500	32.73	---	43.50	10.77	100.0	H	245.0	-19.2
359.945500	32.31	---	46.00	13.69	100.0	H	163.0	-15.0
502.778000	30.51	---	46.00	15.49	100.0	H	312.0	-12.2

23/10/2019

10:34:46 PM

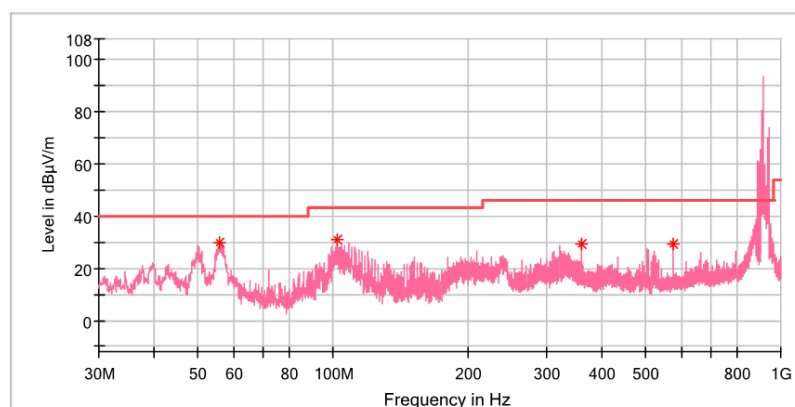
Test

6 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.850500	29.69	---	40.00	10.31	100.0	V	28.0	-18.8
102.459000	31.08	---	43.50	12.42	100.0	V	311.0	-19.2
359.994000	29.19	---	46.00	16.81	100.0	V	238.0	-15.0
574.606500	29.28	---	46.00	16.72	100.0	V	292.0	-10.7

23/10/2019

10:34:46 PM

1GHz to 18GHz

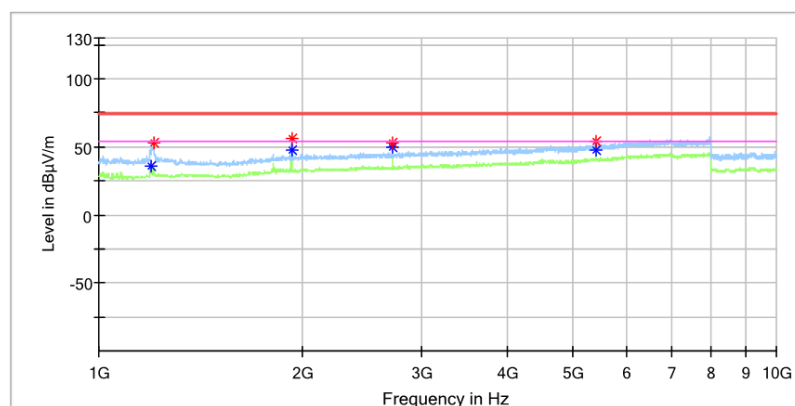
Test

1 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.500000	---	35.54	54.00	18.46	100.0	H	246.0	1.1
1205.500000	53.21	---	74.00	20.79	100.0	H	132.0	1.2
1924.775000	56.15	---	74.00	17.85	100.0	H	3.0	5.6
1924.775000	---	47.37	54.00	6.63	100.0	H	3.0	5.6
2709.512500	52.58	---	74.00	21.42	100.0	H	48.0	7.6
2709.512500	---	49.54	54.00	4.46	100.0	H	48.0	7.6
5418.825000	53.86	---	74.00	20.14	100.0	H	221.0	13.5
5418.825000	---	47.74	54.00	6.27	100.0	H	221.0	13.5

17/10/2019

11:32:10 PM

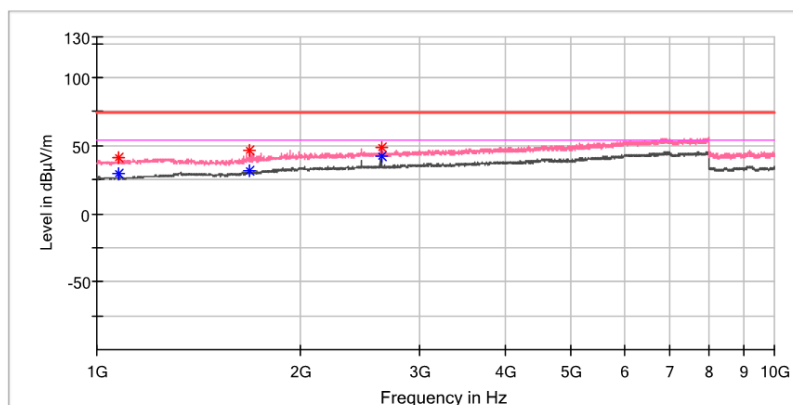
Test

2 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1078.000000	41.46	---	74.00	32.54	100.0	V	287.0	-0.2
1078.500000	---	29.38	54.00	24.62	100.0	V	281.0	-0.2
1679.387500	---	32.01	54.00	21.99	100.0	V	256.0	3.0
1679.387500	46.59	---	74.00	27.41	100.0	V	256.0	3.0
2633.300000	---	42.59	54.00	11.41	100.0	V	199.0	7.5
2633.300000	48.66	---	74.00	25.34	100.0	V	199.0	7.5

17/10/2019

11:32:10 PM

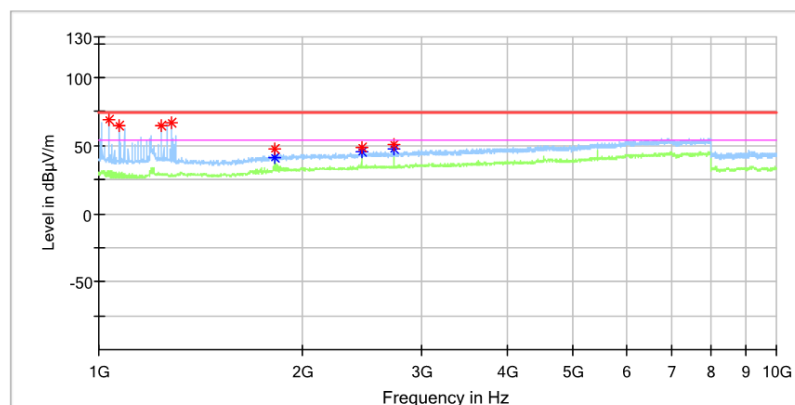
Test

3 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1034.000000	68.95	---	74.00	5.05	100.0	H	121.0	-0.2
1074.000000	64.92	---	74.00	9.08	100.0	H	121.0	-0.2
1236.000000	65.09	---	74.00	8.91	100.0	H	17.0	1.7
1279.500000	67.14	---	74.00	6.86	100.0	H	116.0	1.9
1819.250000	47.45	---	74.00	26.55	100.0	H	326.0	4.8
1819.250000	---	41.61	54.00	12.39	100.0	H	326.0	4.8
2440.675000	48.56	---	74.00	25.44	100.0	H	4.0	7.4
2440.675000	---	45.10	54.00	8.90	100.0	H	4.0	7.4
2722.912500	---	47.57	54.00	6.43	100.0	H	318.0	7.7
2722.912500	50.99	---	74.00	23.01	100.0	H	318.0	7.7

17/10/2019

11:32:10 PM

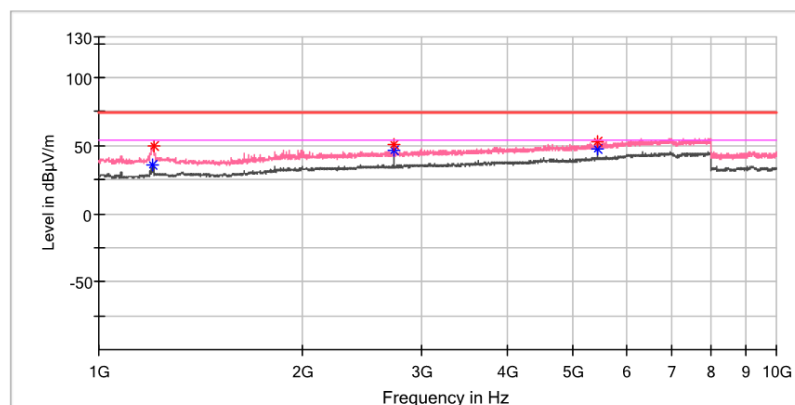
Test

4 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	---	35.89	54.00	18.11	100.0	V	41.0	1.1
1205.000000	49.89	---	74.00	24.11	100.0	V	105.0	1.2
2723.750000	---	46.11	54.00	7.89	100.0	V	349.0	7.7
2723.750000	50.54	---	74.00	23.46	100.0	V	349.0	7.7
5448.137500	53.22	---	74.00	20.78	100.0	V	180.0	13.5
5448.137500	---	48.01	54.00	5.99	100.0	V	180.0	13.5

17/10/2019

11:32:10 PM

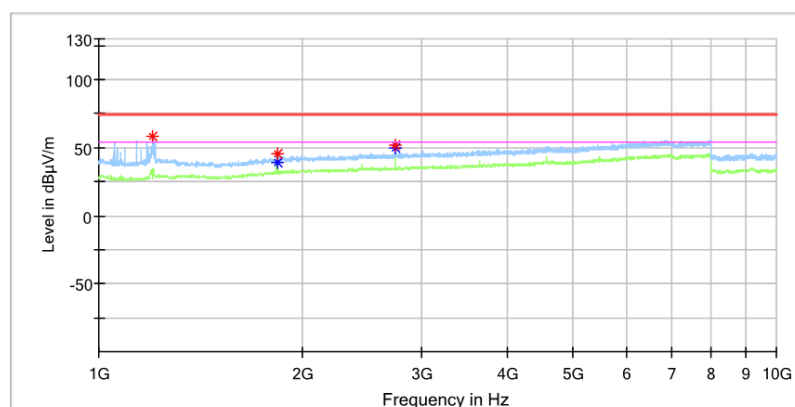
Test

5 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.000000	58.05	---	74.00	15.95	100.0	H	330.0	1.1
1831.812500	---	39.55	54.00	14.45	100.0	H	81.0	4.9
1831.812500	45.52	---	74.00	28.48	100.0	H	81.0	4.9
2742.175000	52.14	---	74.00	21.86	100.0	H	331.0	7.8
2742.175000	---	49.55	54.00	4.45	100.0	H	331.0	7.8

17/10/2019

11:32:10 PM

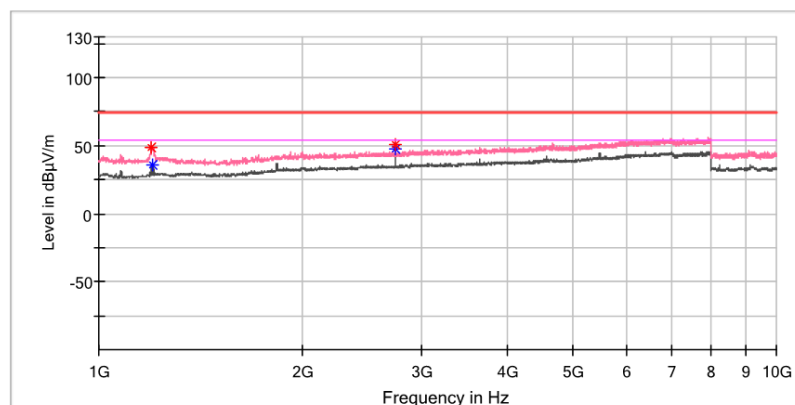
Test

6 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.000000	49.14	---	74.00	24.86	100.0	V	352.0	1.1
1203.500000	---	35.86	54.00	18.14	100.0	V	47.0	1.2
2742.175000	---	47.17	54.00	6.83	100.0	V	349.0	7.8
2742.175000	50.64	---	74.00	23.36	100.0	V	349.0	7.8

17/10/2019

11:32:10 PM

DTSS#4 (Bandwidth: 500KHz)
30 MHz to 1GHz

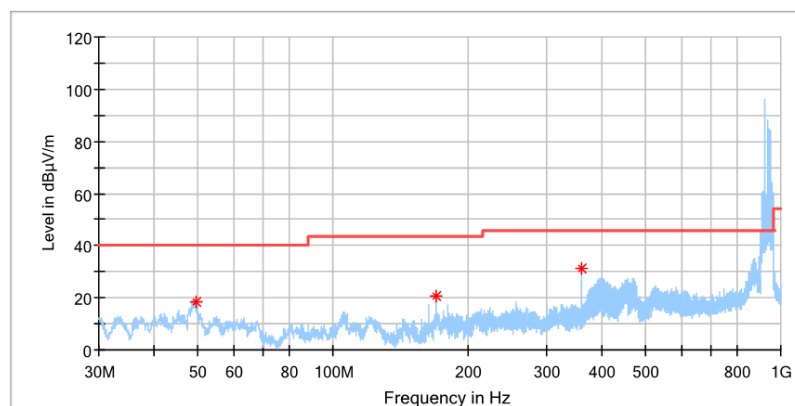
Test

1 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.351500	18.61	---	40.00	21.39	100.0	H	29.0	-18.6
170.213500	20.38	---	43.50	23.12	100.0	H	267.0	-21.6
359.945500	31.32	---	46.00	14.68	100.0	H	332.0	-15.0

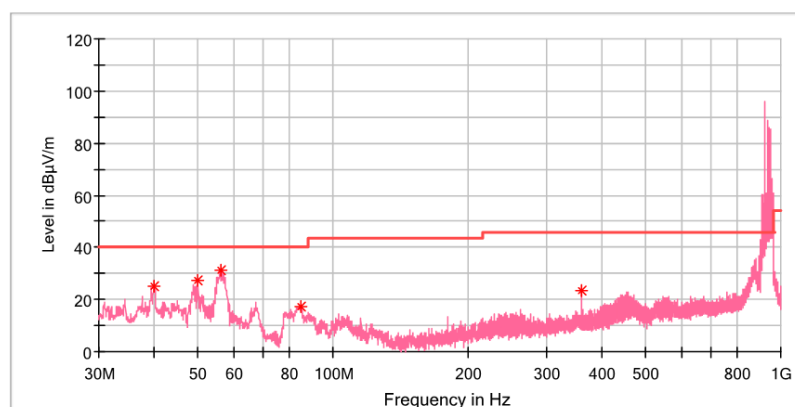
Test

2 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.942500	25.17	---	40.00	14.83	100.0	V	320.0	-20.4
49.982000	27.09	---	40.00	12.91	100.0	V	208.0	-18.6
56.335500	31.31	---	40.00	8.69	100.0	V	320.0	-18.9
84.562500	17.20	---	40.00	22.80	100.0	V	184.0	-22.8
359.994000	23.30	---	46.00	22.70	100.0	V	184.0	-15.0

23/10/2019

10:06:01 PM

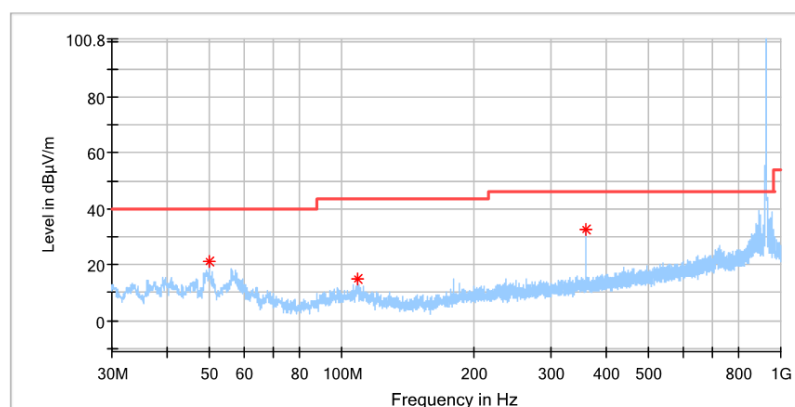
Test

3 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23.9 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	DET 2 (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	21.17	---	40.00	18.83	100.0	H	223.0	-18.6
109.055000	14.69	---	43.50	28.81	100.0	H	103.0	-19.3
359.945500	32.46	---	46.00	13.54	100.0	H	285.0	-15.0

23/10/2019

10:06:01 PM

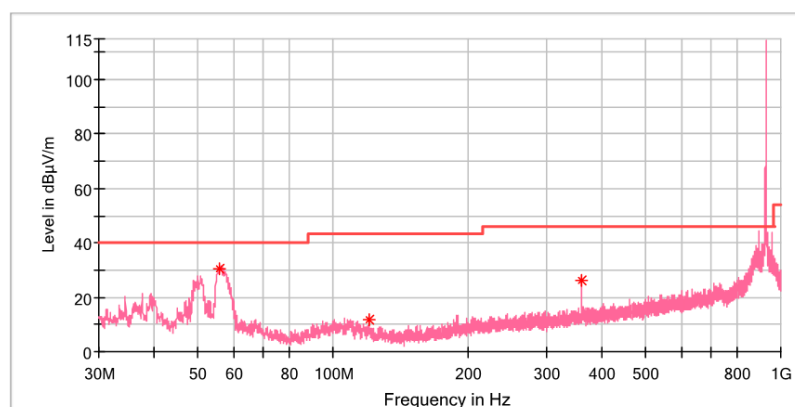
Test

4 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23.9 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.947500	30.52	---	40.00	9.48	100.0	V	345.0	-18.8
120.258500	11.71	---	43.50	31.79	100.0	V	58.0	-21.1
359.945500	26.04	---	46.00	19.96	100.0	V	0.0	-15.0

23/10/2019

10:06:01 PM

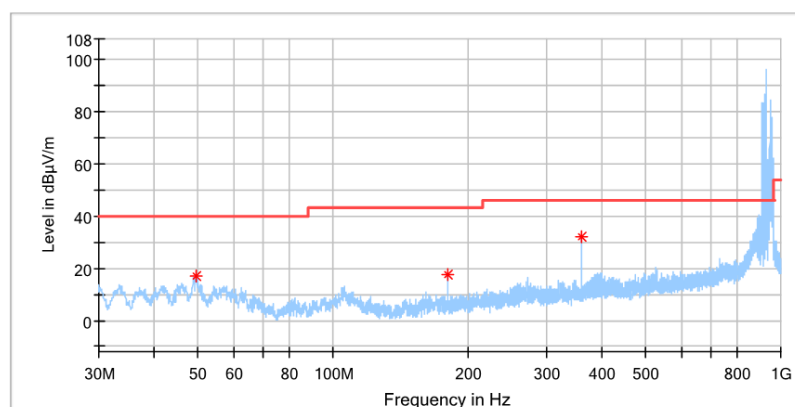
Test

5 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.642500	16.86	---	40.00	23.14	100.0	H	320.0	-18.6
179.962000	17.70	---	43.50	25.80	100.0	H	263.0	-20.8
359.945500	31.91	---	46.00	14.09	100.0	H	339.0	-15.0

23/10/2019

10:06:01 PM

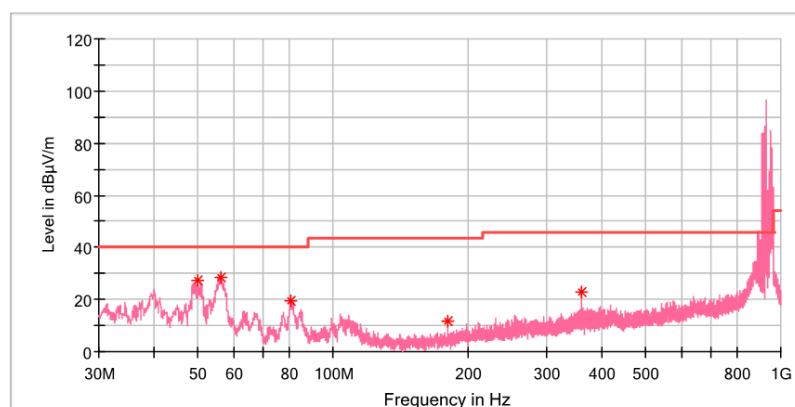
Test

6 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	27.47	---	40.00	12.53	100.0	V	288.0	-18.6
56.238500	28.69	---	40.00	11.31	100.0	V	0.0	-18.9
80.585500	19.69	---	40.00	20.31	100.0	V	272.0	-23.6
179.913500	11.62	---	43.50	31.88	100.0	V	198.0	-20.8
359.945500	23.13	---	46.00	22.87	100.0	V	181.0	-15.0

23/10/2019

10:06:01 PM

1GHz to 18GHz

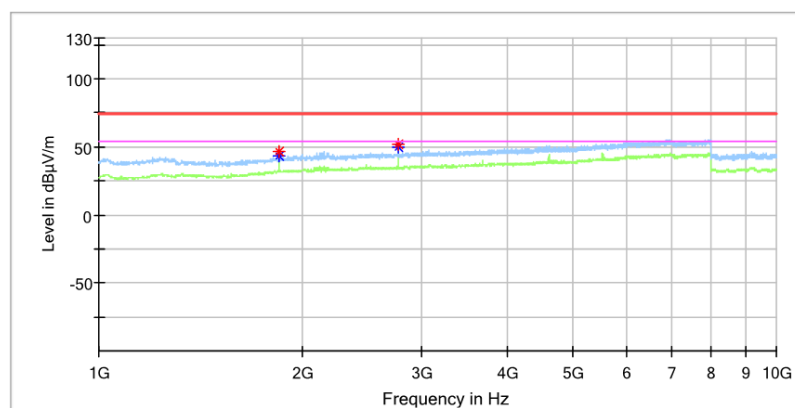
Test

1 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1846.050000	---	43.06	54.00	10.94	100.0	H	176.0	5.0
1846.050000	46.03	---	74.00	27.97	100.0	H	176.0	5.0
2768.975000	---	50.11	54.00	3.89	100.0	H	159.0	7.9
2770.650000	52.19	---	74.00	21.81	100.0	H	135.0	7.9

21/10/2019

10:20:44 PM

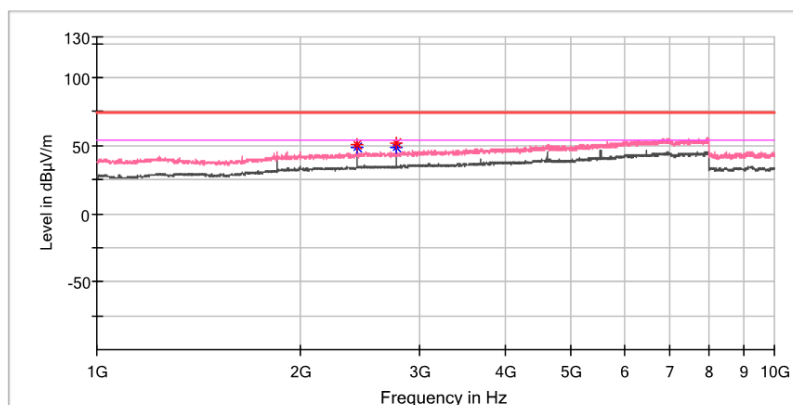
Test

2 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2425.600000	50.54	---	74.00	23.46	100.0	V	135.0	7.2
2425.600000	---	48.35	54.00	5.65	100.0	V	135.0	7.2
2769.812500	52.24	---	74.00	21.76	100.0	V	143.0	7.9
2769.812500	---	48.76	54.00	5.24	100.0	V	143.0	7.9

21/10/2019

10:20:44 PM

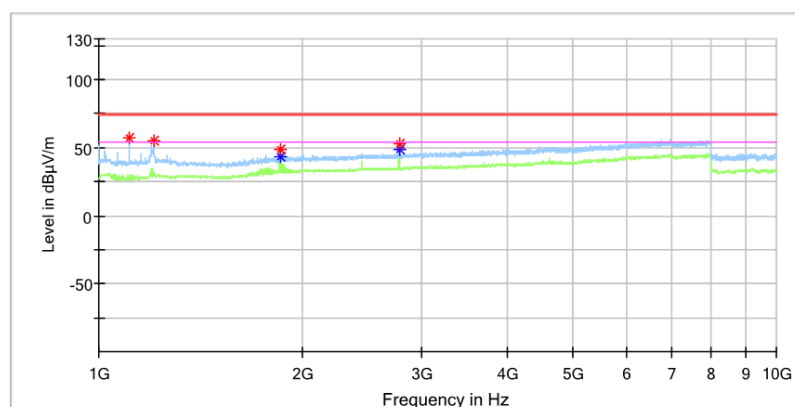
Test

3 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1110.000000	57.07	---	74.00	16.93	100.0	H	203.0	0.0
1208.000000	54.92	---	74.00	19.08	100.0	H	301.0	1.2
1853.587500	48.95	---	74.00	25.05	100.0	H	225.0	5.0
1853.587500	---	43.71	54.00	10.29	100.0	H	225.0	5.0
2774.837500	52.97	---	74.00	21.03	100.0	H	329.0	7.9
2775.675000	---	49.08	54.00	4.92	100.0	H	28.0	7.9

21/10/2019

10:20:44 PM

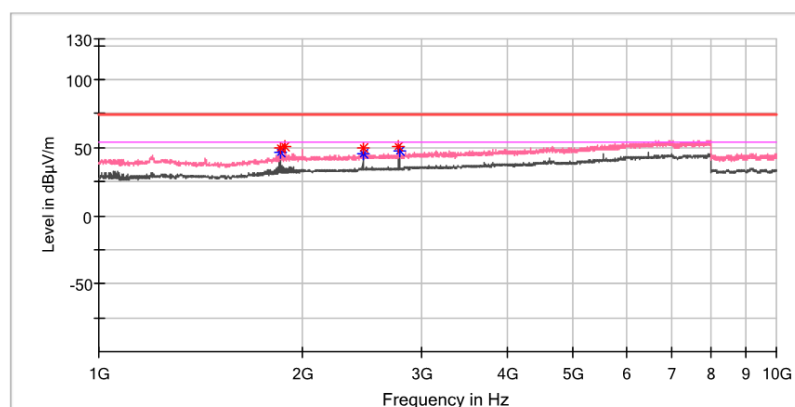
Test

4 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1850.237500	50.20	---	74.00	23.80	100.0	V	274.0	5.0
1850.237500	---	46.18	54.00	7.82	100.0	V	274.0	5.0
1886.250000	50.44	---	74.00	23.56	100.0	V	168.0	5.4
2454.075000	---	45.73	54.00	8.27	100.0	V	258.0	7.5
2454.075000	50.26	---	74.00	23.74	100.0	V	258.0	7.5
2774.000000	51.22	---	74.00	22.78	100.0	V	346.0	7.9
2774.837500	---	48.04	54.00	5.96	100.0	V	346.0	7.9

21/10/2019

10:20:44 PM

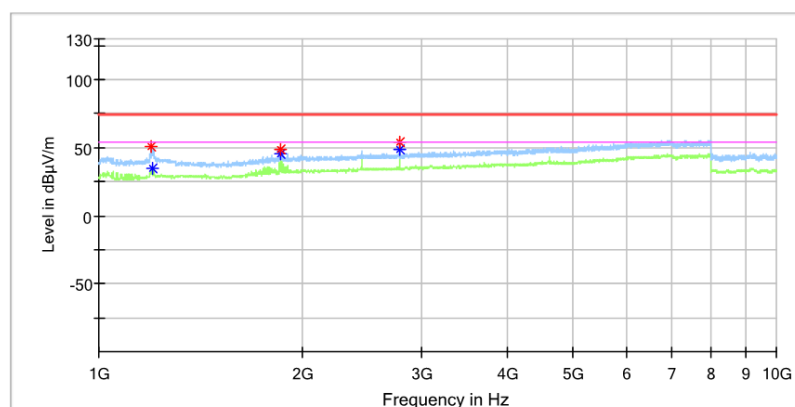
Test

5 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.000000	51.26	---	74.00	22.74	100.0	H	278.0	1.1
1203.000000	---	35.05	54.00	18.95	100.0	H	290.0	1.2
1856.937500	49.05	---	74.00	24.95	100.0	H	315.0	5.1
1857.775000	---	45.36	54.00	8.64	100.0	H	324.0	5.1
2779.862500	53.80	---	74.00	20.20	100.0	H	324.0	7.9
2779.862500	---	48.87	54.00	5.13	100.0	H	324.0	7.9

21/10/2019

10:20:44 PM

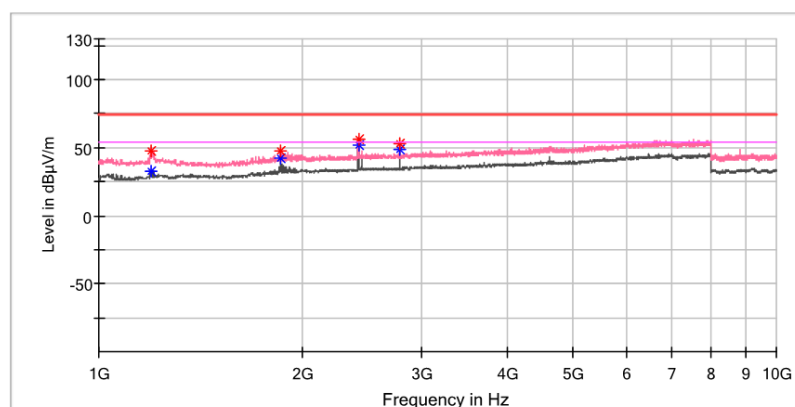
Test

6 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_High Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.000000	47.31	---	74.00	26.69	100.0	V	92.0	1.1
1197.500000	---	32.98	54.00	21.02	100.0	V	266.0	1.1
1852.750000	47.81	---	74.00	26.19	100.0	V	295.0	5.0
1856.937500	---	42.03	54.00	11.97	100.0	V	336.0	5.1
2419.737500	---	50.87	54.00	3.13	100.0	V	357.0	7.2
2419.737500	55.92	---	74.00	18.08	100.0	V	357.0	7.2
2780.700000	52.70	---	74.00	21.30	100.0	V	287.0	7.9
2780.700000	---	49.02	54.00	4.98	100.0	V	287.0	7.9

21/10/2019

10:20:44 PM

FHSS#1 (Bandwidth: 250KHz)
30 MHz to 1GHz

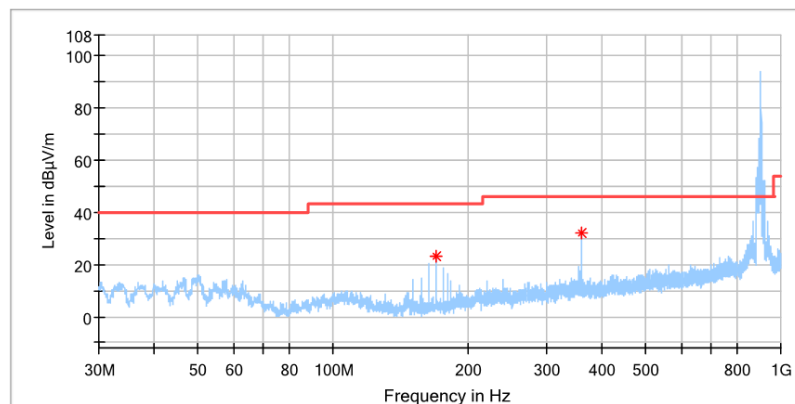
Test

1 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
170.116500	23.30	---	43.50	20.20	100.0	H	267.0	-21.6
359.945500	31.88	---	46.00	14.12	100.0	H	334.0	-15.0

23/10/2019

10:59:11 PM

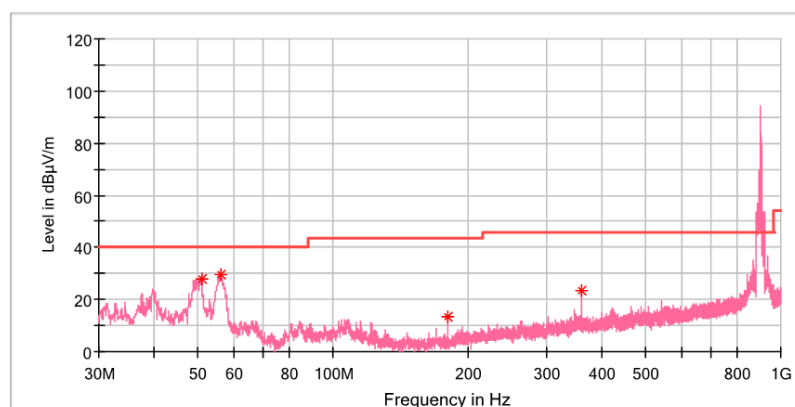
Test

2 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_Low Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 22 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.855000	27.69	---	40.00	12.31	100.0	V	258.0	-18.6
56.238500	29.45	---	40.00	10.55	100.0	V	39.0	-18.9
179.962000	13.52	---	43.50	29.98	100.0	V	203.0	-20.8
359.945500	23.61	---	46.00	22.39	100.0	V	184.0	-15.0

23/10/2019

10:59:11 PM

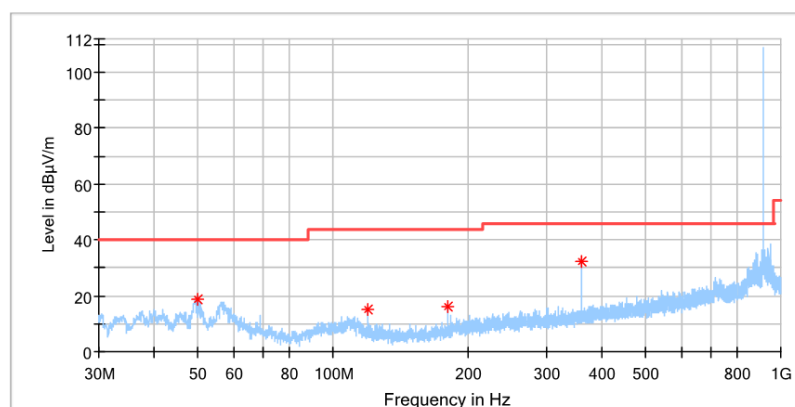
Test

3 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23.9 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	DET 2 (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	18.93	---	40.00	21.07	100.0	H	179.0	-18.6
119.967500	15.21	---	43.50	28.29	100.0	H	245.0	-21.1
179.962000	15.90	---	43.50	27.60	100.0	H	109.0	-20.8
359.945500	32.25	---	46.00	13.75	100.0	H	293.0	-15.0

23/10/2019

10:59:11 PM

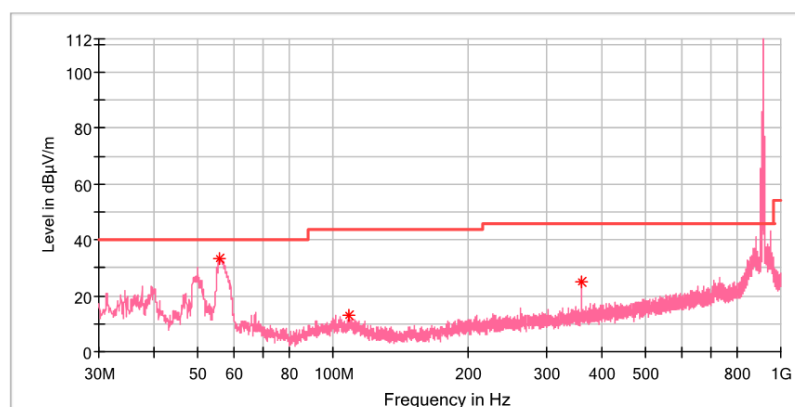
Test

4 / 6

Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb(PAR38)
Model:	PAR38
Test Mode:	TX_mid Channel
Test Voltage::	DC 5V From USB
Remark:	Temp 23.9 Humi:48%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	DET 2 (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.656500	33.08	---	40.00	6.92	100.0	V	352.0	-18.8
108.861000	13.13	---	43.50	30.37	100.0	V	0.0	-19.3
359.994000	25.20	---	46.00	20.80	100.0	V	0.0	-15.0

23/10/2019

10:59:11 PM