

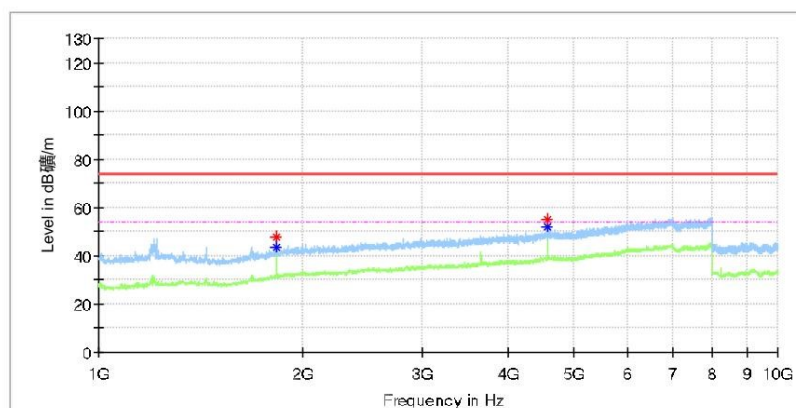
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora DTS 500K Low CH_914.5MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1828.462500	---	43.30	54.00	10.70	100.0	H	321.0	4.9
1829.300000	47.86	---	74.00	26.14	100.0	H	302.0	4.9
4572.950000	---	50.81	54.00	3.19	100.0	H	211.0	12.0
4572.950000	54.96	---	74.00	19.04	100.0	H	211.0	12.0

4/3/2020

8:55:22 PM

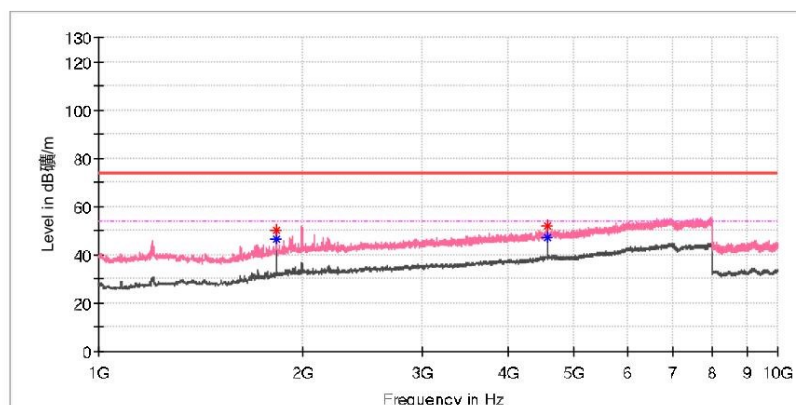
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora DTS 500K Low CH_914.5MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1828.462500	—	46.56	54.00	7.44	100.0	V	130.0	4.9
1828.462500	50.15	—	74.00	23.85	100.0	V	130.0	4.9
4572.112500	—	47.40	54.00	6.60	100.0	V	20.0	12.0
4572.112500	51.77	—	74.00	22.23	100.0	V	20.0	12.0

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8:55:22 PM

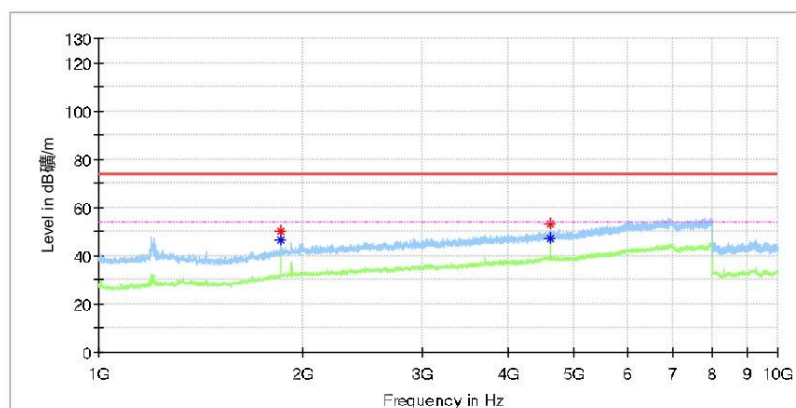
Test

5 / 6

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora DTS 500K High CH_926.5MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1852.750000	50.25	---	74.00	23.75	100.0	H	303.0	5.0
1852.750000	---	46.77	54.00	7.23	100.0	H	303.0	5.0
4631.575000	53.17	---	74.00	20.83	100.0	H	218.0	12.0
4631.575000	---	46.86	54.00	7.14	100.0	H	218.0	12.0

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8:55:22 PM

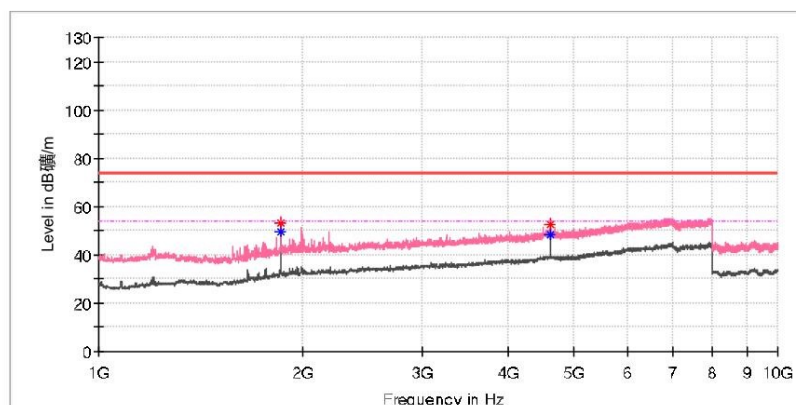
Test

6 / 6

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora DTS 500K High CH_926.5MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1852.750000	53.41	---	74.00	20.59	100.0	V	136.0	5.0
1852.750000	---	49.60	54.00	4.40	100.0	V	136.0	5.0
4633.250000	---	48.39	54.00	5.61	100.0	V	202.0	12.0
4634.087500	52.36	---	74.00	21.64	100.0	V	202.0	12.0

4/3/2020

8:55:22 PM

FHSS#1 (Bandwidth: 125KHz)
30 MHz to 1GHz

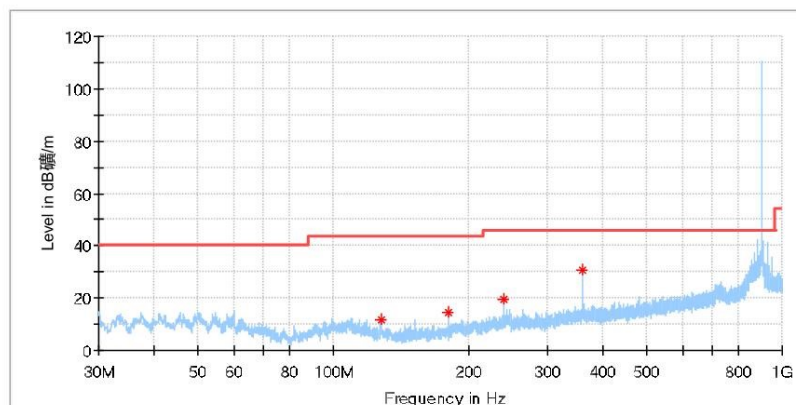
Test

1 / 4

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K Low CH_902.2MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
127.485000	11.74	---	43.50	31.76	100.0	H	356.0	-21.9
179.962000	14.76	---	43.50	28.74	100.0	H	102.0	-20.8
239.956500	19.62	---	46.00	26.38	100.0	H	184.0	-18.0
359.945500	30.57	---	46.00	15.43	100.0	H	307.0	-15.0

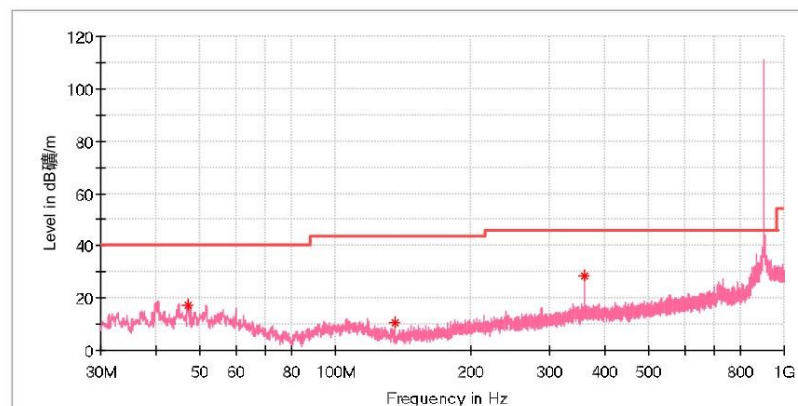
Test

2 / 4

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K Low CH_902.2MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
46.926500	17.57	---	40.00	22.43	100.0	V	0.0	-18.8
135.778500	10.70	---	43.50	32.80	100.0	V	329.0	-22.4
359.945500	28.36	---	46.00	17.64	100.0	V	124.0	-15.0

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9:05:15 PM

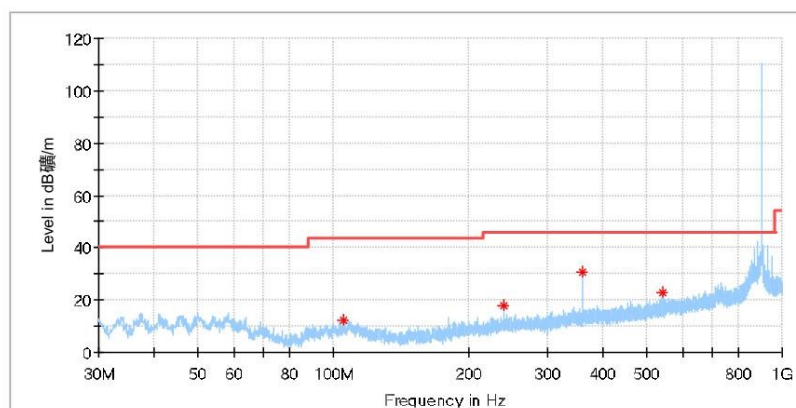
Test

3 / 4

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K High CH_927.8MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
105.175000	12.39	---	43.50	31.11	100.0	H	250.0	-19.1
239.956500	17.70	---	46.00	28.30	100.0	H	168.0	-18.0
359.945500	30.49	---	46.00	15.51	100.0	H	316.0	-15.0
539.929000	23.09	---	46.00	22.91	100.0	H	258.0	-11.4

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9:05:15 PM

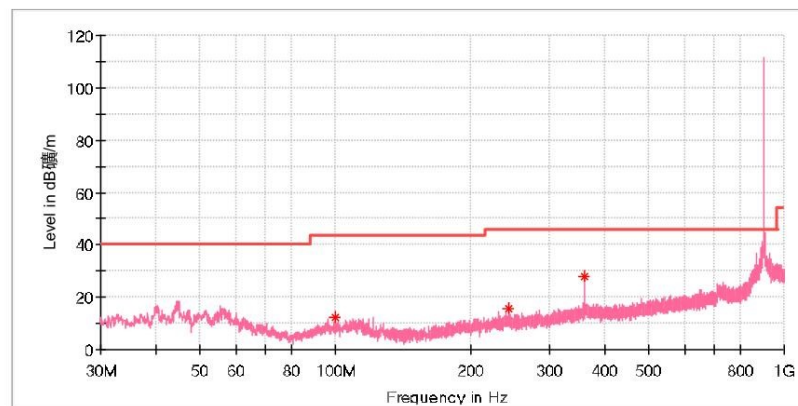
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K High CH_927.8MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
100.034000	12.40	—	43.50	31.10	100.0	V	320.0	-19.3
244.079000	15.48	—	46.00	30.52	100.0	V	295.0	-17.9
359.945500	27.74	—	46.00	18.26	100.0	V	90.0	-15.0

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1GHz to 18GHz

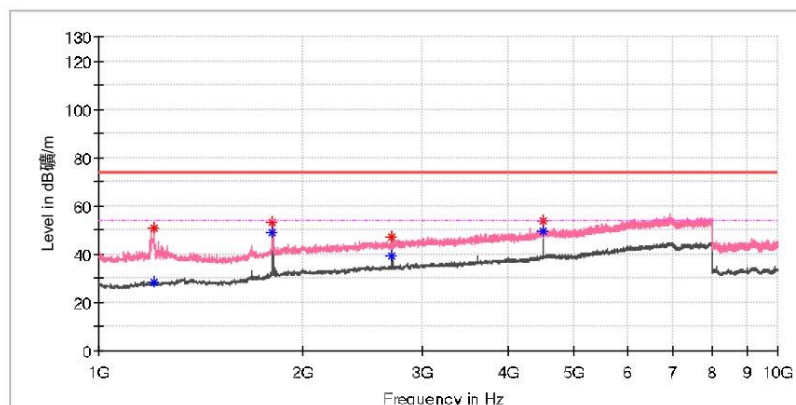
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K Low CH_902.2MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1205.500000	---	28.34	54.00	25.66	100.0	V	234.0	1.2
1205.500000	50.95	---	74.00	23.05	100.0	V	234.0	1.2
1804.175000	53.41	---	74.00	20.59	100.0	V	218.0	4.7
1804.175000	---	49.04	54.00	4.96	100.0	V	218.0	4.7
2706.162500	---	39.43	54.00	14.57	100.0	V	260.0	7.5
2706.162500	47.36	---	74.00	26.64	100.0	V	260.0	7.5
4510.975000	---	49.67	54.00	4.33	100.0	V	218.0	11.6
4510.975000	53.62	---	74.00	20.38	100.0	V	218.0	11.6

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9:43:24 AM

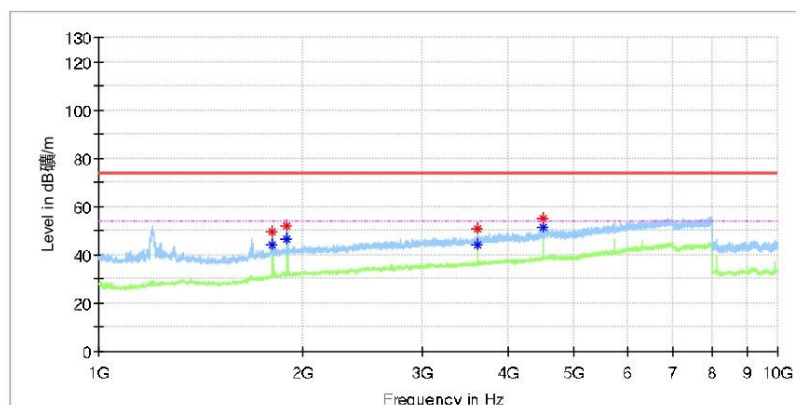
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K Low CH_902.2MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1804.175000	---	43.93	54.00	10.07	100.0	H	55.0	4.7
1804.175000	49.45	---	74.00	24.55	100.0	H	55.0	4.7
1894.625000	51.83	---	74.00	22.17	100.0	H	356.0	5.5
1895.462500	---	46.40	54.00	7.60	100.0	H	356.0	5.5
3608.150000	---	44.40	54.00	9.60	100.0	H	20.0	9.4
3608.150000	50.50	---	74.00	23.50	100.0	H	20.0	9.4
4510.975000	---	50.84	54.00	3.16	100.0	H	228.0	11.6
4510.975000	55.07	---	74.00	18.93	100.0	H	228.0	11.6

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9:43:24 AM

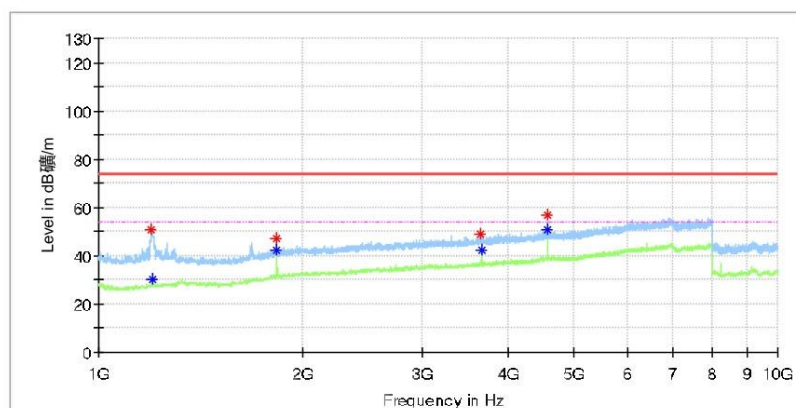
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K Mid CH_915MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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	51.08	---	74.00	22.92	100.0	H	205.0	1.1
1201.500000	---	30.03	54.00	23.97	100.0	H	228.0	1.2
1829.300000	---	42.34	54.00	11.66	100.0	H	217.0	4.9
1829.300000	47.35	---	74.00	26.65	100.0	H	217.0	4.9
3652.537500	49.24	---	74.00	24.76	100.0	H	197.0	9.4
3660.075000	---	42.25	54.00	11.75	100.0	H	355.0	9.4
4574.625000	56.84	---	74.00	17.16	100.0	H	217.0	12.0
4575.462500	---	50.62	54.00	3.38	100.0	H	257.0	12.0

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9:43:24 AM

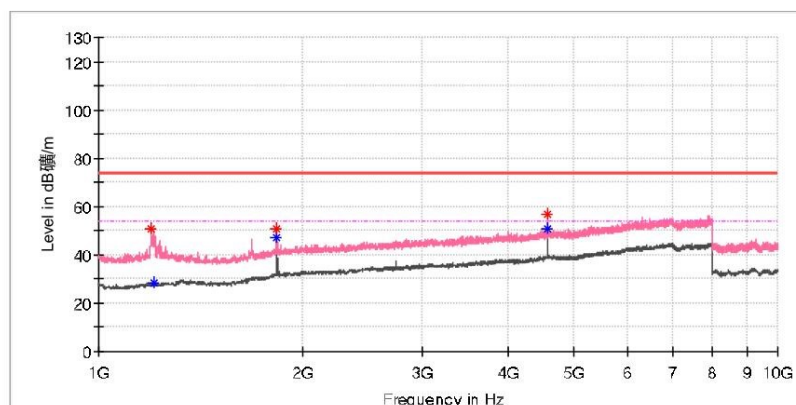
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K Mid CH_915MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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	50.63	---	74.00	23.37	100.0	V	237.0	1.1
1204.000000	---	28.42	54.00	25.58	100.0	V	230.0	1.2
1829.300000	---	47.10	54.00	6.90	100.0	V	160.0	4.9
1829.300000	51.01	---	74.00	22.99	100.0	V	160.0	4.9
4574.625000	56.71	---	74.00	17.29	100.0	V	253.0	12.0
4575.462500	---	50.67	54.00	3.33	100.0	V	231.0	12.0

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9:43:24 AM

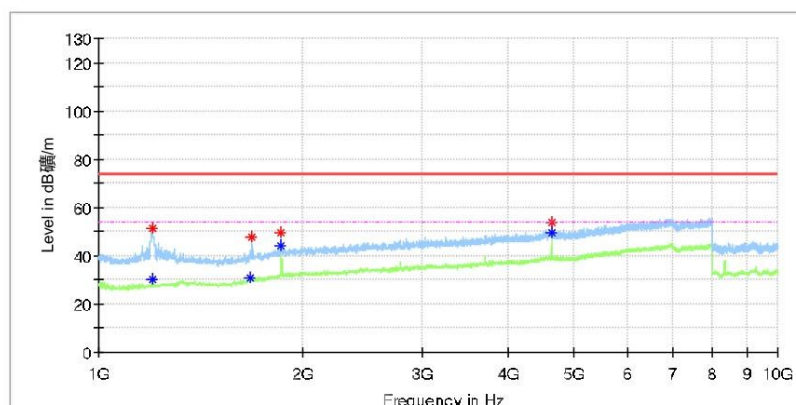
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K High CH_927.8MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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	---	30.35	54.00	23.65	100.0	H	227.0	1.1
1200.500000	51.43	---	74.00	22.57	100.0	H	227.0	1.1
1674.362500	---	31.02	54.00	22.98	100.0	H	221.0	2.9
1677.712500	47.79	---	74.00	26.21	100.0	H	230.0	3.0
1855.262500	---	44.39	54.00	9.61	100.0	H	221.0	5.0
1855.262500	49.30	---	74.00	24.70	100.0	H	221.0	5.0
4639.112500	---	49.63	54.00	4.37	100.0	H	253.0	12.0
4639.112500	53.65	---	74.00	20.35	100.0	H	253.0	12.0

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9:43:24 AM

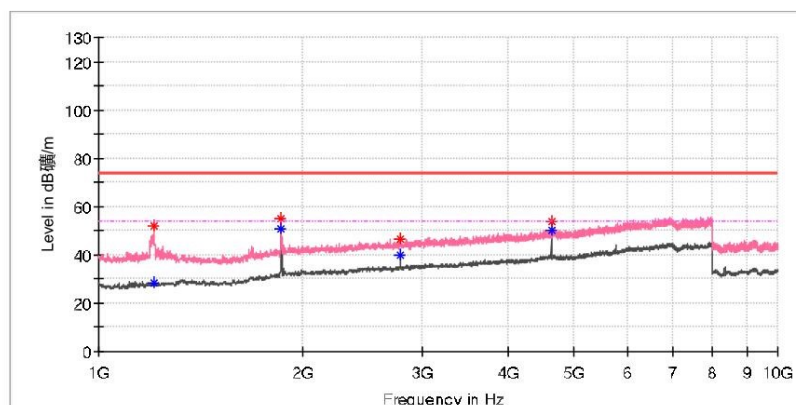
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	Lora FHSS 125K High CH_927.8MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1206.000000	51.93	—	74.00	22.07	100.0	V	228.0	1.2
1208.000000	—	28.70	54.00	25.30	100.0	V	236.0	1.2
1855.262500	55.09	—	74.00	18.91	100.0	V	119.0	5.0
1855.262500	—	50.63	54.00	3.37	100.0	V	119.0	5.0
2783.212500	46.55	—	74.00	27.45	100.0	V	274.0	7.9
2783.212500	—	40.20	54.00	13.80	100.0	V	274.0	7.9
4639.112500	—	50.12	54.00	3.88	100.0	V	90.0	12.0
4639.112500	53.98	—	74.00	20.02	100.0	V	90.0	12.0

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9:43:24 AM

FHSs#2 (DataRate: 50Kbps)
30 MHz to 1GHz

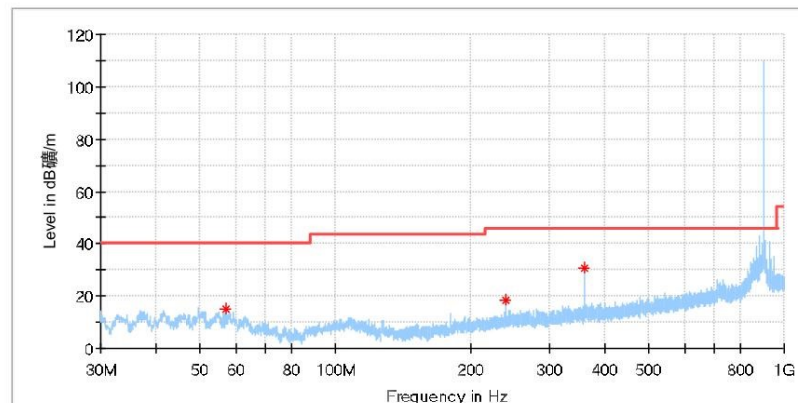
Test

1 / 4

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	FSK FHSS 50K Low CH_902.2MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
57.111500	15.07	---	40.00	24.93	100.0	H	93.0	-19.0
239.956500	18.44	---	46.00	27.56	100.0	H	183.0	-18.0
359.945500	30.93	---	46.00	15.07	100.0	H	322.0	-15.0

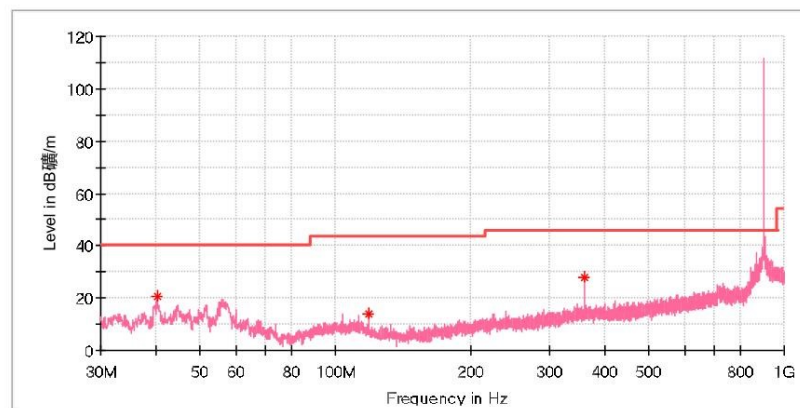
Test

2 / 4

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	FSK FHSS 50K Low CH_902.2MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
40.136500	20.40	---	40.00	19.60	100.0	V	94.0	-20.4
118.755000	14.13	---	43.50	29.37	100.0	V	0.0	-20.8
359.994000	27.79	---	46.00	18.21	100.0	V	135.0	-15.0

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9:28:42 PM

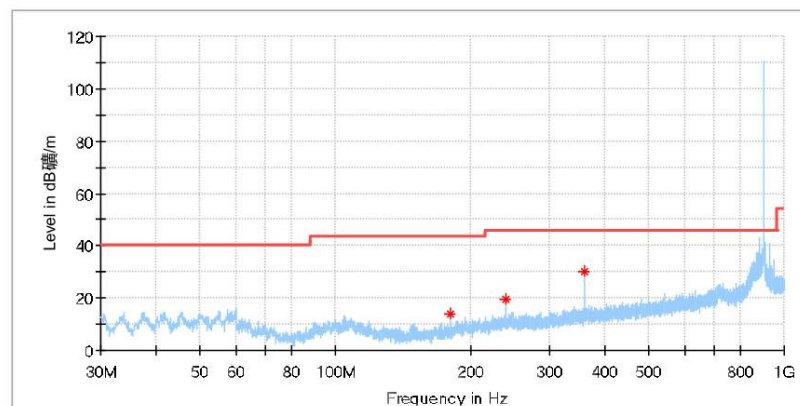
Test

3 / 4

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	FSK FHSS 50K High CH_927.8MHz
Test Voltage:	Fully charged battery
Remark:	Temp 24 Humi:45%
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	13.97	---	43.50	29.53	100.0	H	152.0	-20.8
239.956500	19.62	---	46.00	26.38	100.0	H	201.0	-18.0
359.945500	30.21	---	46.00	15.79	100.0	H	307.0	-15.0

5/3/2020

9:28:42 PM

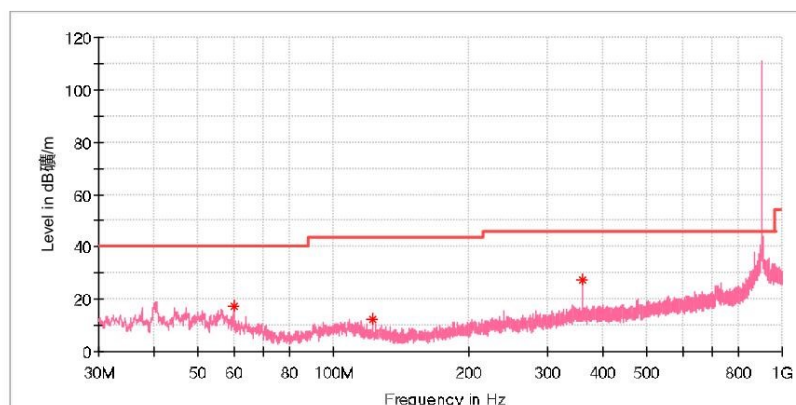
Test

4 / 4

Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	FSK FHSS 50K High CH_927.8MHz
Test Voltage:	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
59.973000	17.30	—	40.00	22.70	100.0	V	290.0	-19.3
122.053000	12.27	—	43.50	31.23	100.0	V	348.0	-21.3
359.945500	27.55	—	46.00	18.45	100.0	V	94.0	-15.0

5/3/2020

9:28:42 PM

1GHz to 18GHz

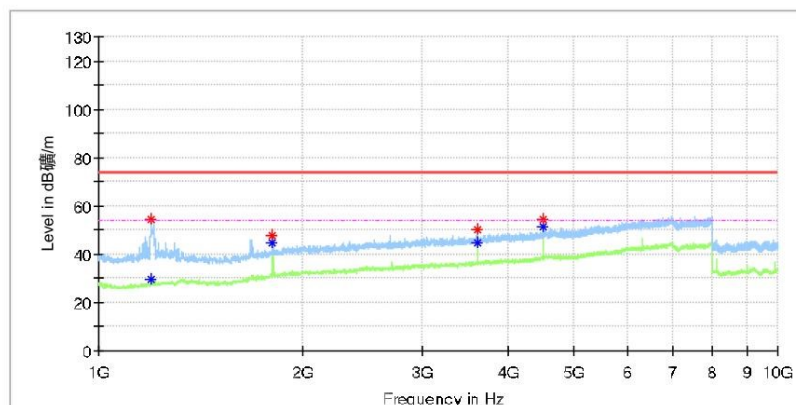
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	FSK FHSS 50K Low CH_902.2MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1194.500000	54.67	---	74.00	19.33	100.0	H	216.0	1.1
1195.000000	---	29.37	54.00	24.63	100.0	H	216.0	1.1
1804.175000	---	44.48	54.00	9.52	100.0	H	74.0	4.7
1804.175000	47.87	---	74.00	26.13	100.0	H	74.0	4.7
3608.150000	50.34	---	74.00	23.66	100.0	H	1.0	9.4
3608.987500	---	44.76	54.00	9.24	100.0	H	1.0	9.4
4510.975000	54.47	---	74.00	19.53	100.0	H	32.0	11.6
4510.975000	---	50.60	54.00	3.40	100.0	H	32.0	11.6

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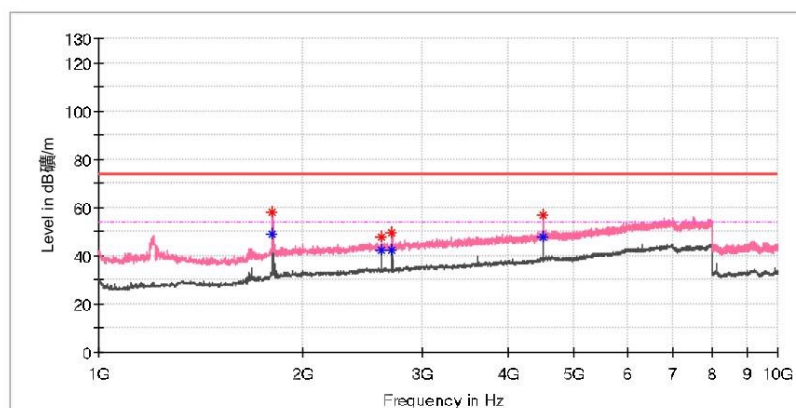
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	FSK FHSS 50K Low CH_902.2MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1803.337500	---	49.10	54.00	4.90	100.0	V	95.0	4.7
1804.175000	57.87	---	74.00	16.13	100.0	V	162.0	4.7
2612.362500	---	42.50	54.00	11.50	100.0	V	20.0	7.4
2613.200000	47.91	---	74.00	26.09	100.0	V	20.0	7.4
2706.162500	---	42.27	54.00	11.73	100.0	V	235.0	7.5
2706.162500	49.72	---	74.00	24.28	100.0	V	235.0	7.5
4510.975000	56.61	---	74.00	17.39	100.0	V	224.0	11.6
4511.812500	---	48.02	54.00	5.98	100.0	V	214.0	11.6

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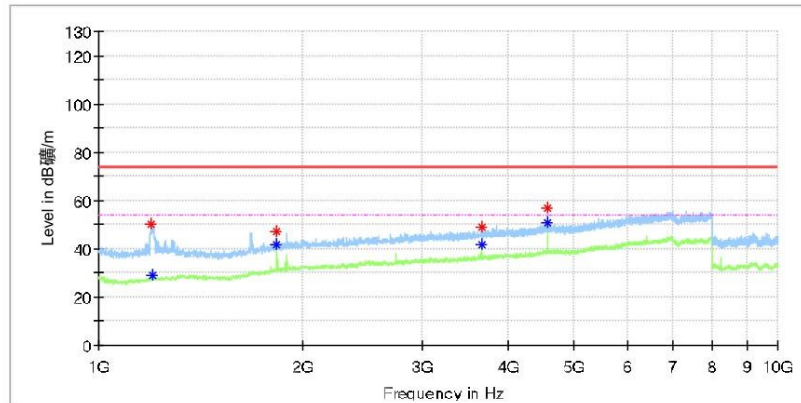
Test

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Test Report

EUT Information

EUT Name:	Pathlight
Model:	5LP1Y8
Test Mode:	FSK FHSS 50K Mid CH_915MHz
Test Voltage::	Fully charged battery
Remark:	Temp 24 Humi:45%
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)
1194.500000	49.98	---	74.00	24.02	100.0	H	245.0	1.1
1200.500000	---	28.77	54.00	25.23	100.0	H	230.0	1.1
1829.300000	---	41.57	54.00	12.43	100.0	H	220.0	4.9
1829.300000	47.38	---	74.00	26.62	100.0	H	220.0	4.9
3660.075000	---	41.70	54.00	12.30	100.0	H	356.0	9.4
3660.075000	48.81	---	74.00	25.19	100.0	H	356.0	9.4
4574.625000	56.79	---	74.00	17.21	100.0	H	39.0	12.0
4575.462500	---	50.85	54.00	3.15	100.0	H	242.0	12.0

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