

Appendix D: Test Results of Radiated

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DTSS#1(BLE)

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

30 MHz to 1GHz

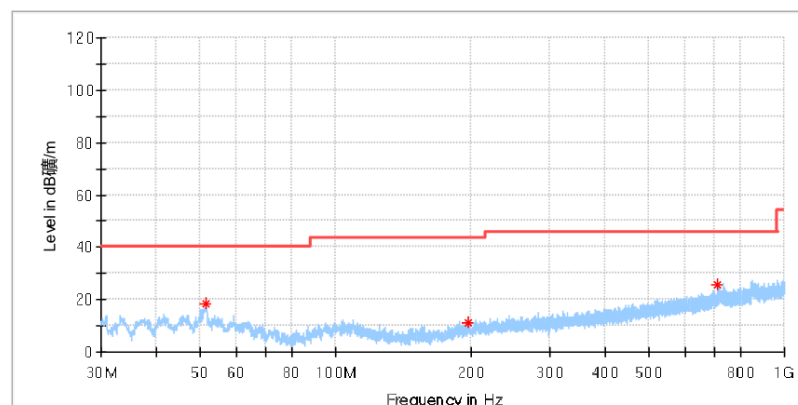
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_Low CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
51.437000	18.28	---	40.00	21.72	100.0	H	0.0	-18.6
197.422000	11.18	---	43.50	32.32	100.0	H	211.0	-19.4
709.436500	25.52	---	46.00	20.48	100.0	H	0.0	-8.3

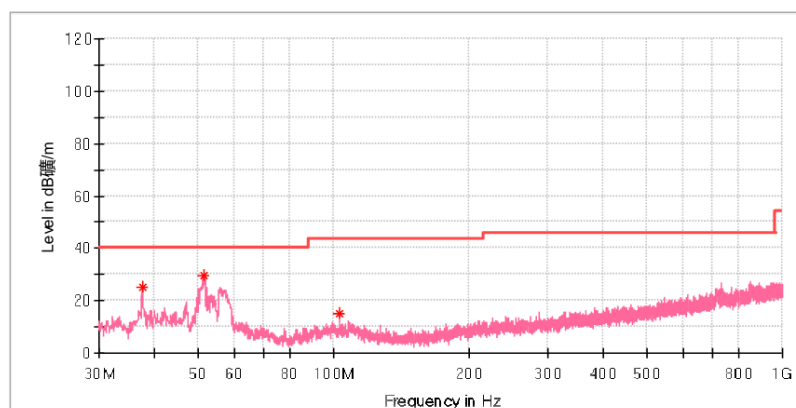
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_Low CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
37.420500	24.96	---	40.00	15.04	100.0	V	280.0	-21.3
51.485500	29.39	---	40.00	10.61	100.0	V	121.0	-18.6
103.138000	15.16	---	43.50	28.34	100.0	V	300.0	-19.2

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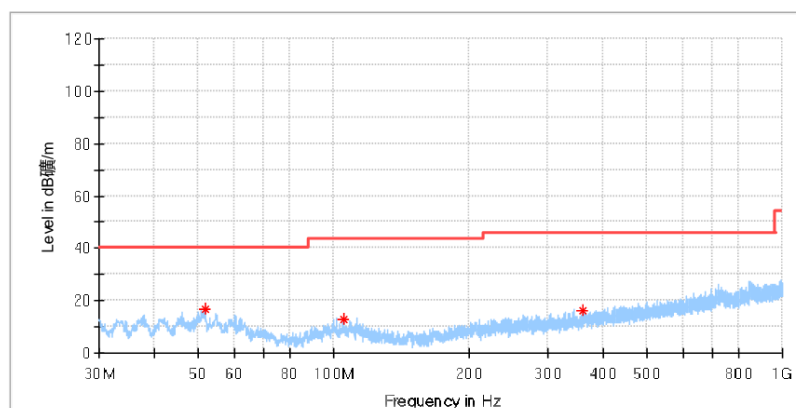
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_High CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
51.631000	16.50	---	40.00	23.50	100.0	H	287.0	-18.6
105.126500	13.07	---	43.50	30.43	100.0	H	136.0	-19.1
359.703000	16.06	---	46.00	29.94	100.0	H	110.0	-15.0

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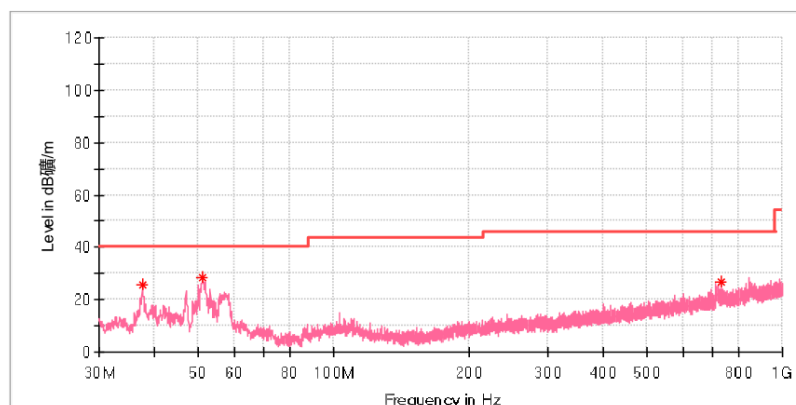
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_High CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
37.469000	25.57	—	40.00	14.43	100.0	V	80.0	-21.3
51.049000	28.71	—	40.00	11.29	100.0	V	0.0	-18.6
729.855000	27.00	—	46.00	19.00	100.0	V	88.0	-7.9

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1GHz to 18GHz

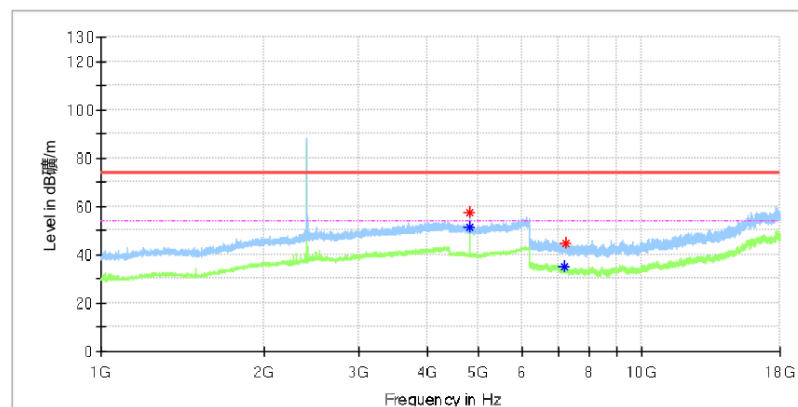
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_Low CH
Test Voltage::	Full Battery
Remark:	Temp 23 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)
4803.000000	57.55	---	74.00	16.45	100.0	H	293.0	13.6
4804.000000	---	50.14	54.00	3.86	100.0	H	174.0	13.6
7204.966667	---	34.90	54.00	19.10	100.0	H	189.0	8.8
7234.958333	44.74	---	74.00	29.26	100.0	H	357.0	8.6

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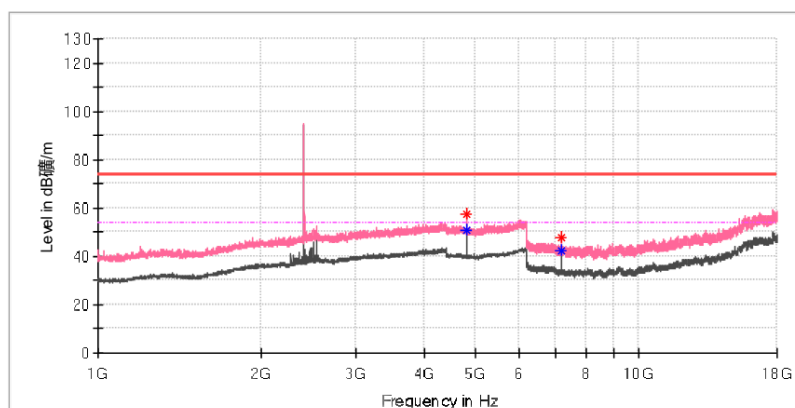
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_Low CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
4803.500000	---	50.97	54.00	3.03	100.0	V	158.0	13.6
4804.000000	57.69	---	74.00	16.31	100.0	V	229.0	13.6
7205.950000	---	42.18	54.00	11.82	100.0	V	181.0	8.8
7205.950000	47.47	---	74.00	26.53	100.0	V	181.0	8.8

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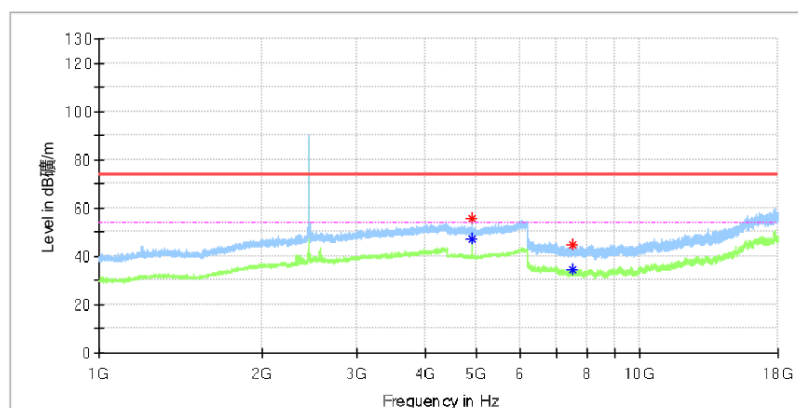
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
TestMode:	BLE_TX_Mid CH
TestVoltage::	Full Battery
Remark:	Temp 23 Humi:45%
TestStandard:	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)
4879.500000	55.58	---	74.00	18.42	100.0	H	228.0	13.4
4880.000000	---	46.93	54.00	7.07	100.0	H	3.0	13.4
7516.683333	---	34.44	54.00	19.56	100.0	H	131.0	8.7
7516.683333	44.85	---	74.00	29.15	100.0	H	131.0	8.7

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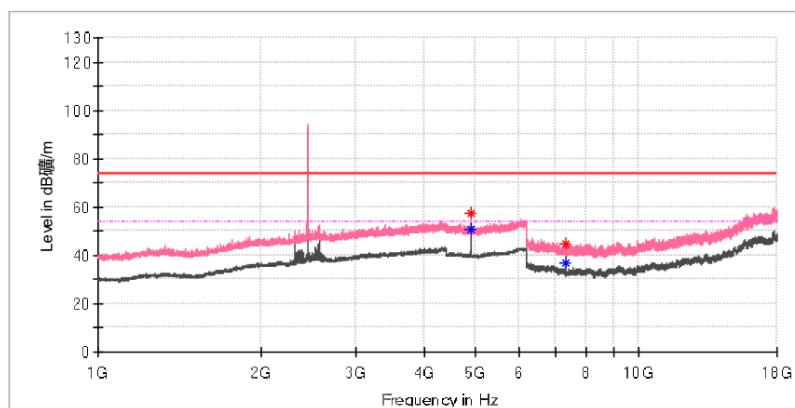
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_Mid CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
4879.500000	57.56	—	74.00	16.44	100.0	V	246.0	13.4
4880.000000	—	50.49	54.00	3.51	100.0	V	229.0	13.4
7318.050000	44.70	—	74.00	29.30	100.0	V	151.0	8.2
7320.508333	—	36.63	54.00	17.37	100.0	V	111.0	8.2

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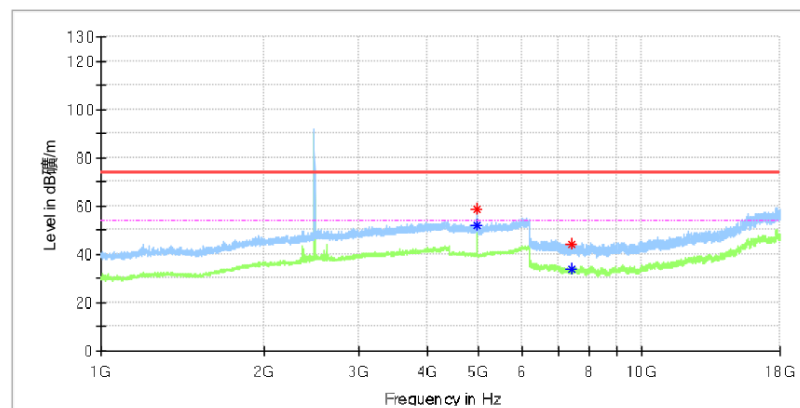
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_High CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
4959.500000	---	50.78	54.00	3.22	100.0	H	148.0	13.2
4959.500000	58.60	---	74.00	15.40	100.0	H	148.0	13.2
7417.858333	---	33.99	54.00	20.01	100.0	H	148.0	8.3
7434.575000	43.93	---	74.00	30.07	100.0	H	128.0	8.4

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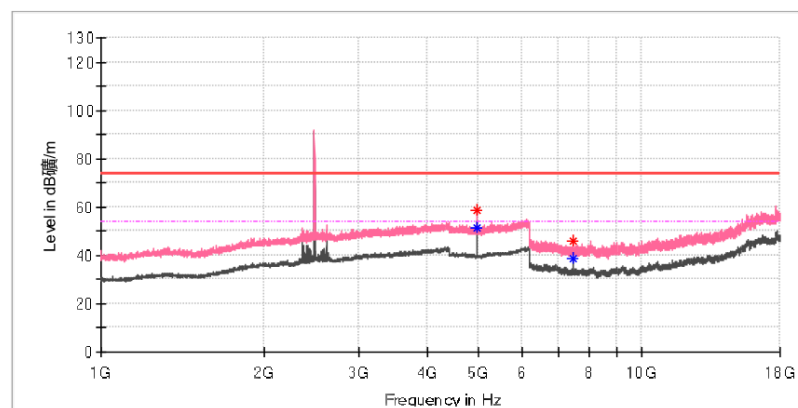
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_High CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
4959.500000	—	50.51	54.00	3.49	100.0	V	232.0	13.2
4960.000000	58.64	—	74.00	15.36	100.0	V	162.0	13.2
7439.983333	—	39.00	54.00	15.00	100.0	V	184.0	8.4
7440.475000	45.80	—	74.00	28.20	100.0	V	184.0	8.4

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Note: The highest waveform in the figure is Bluetooth Fundamental.

Band Edge, Low Channel

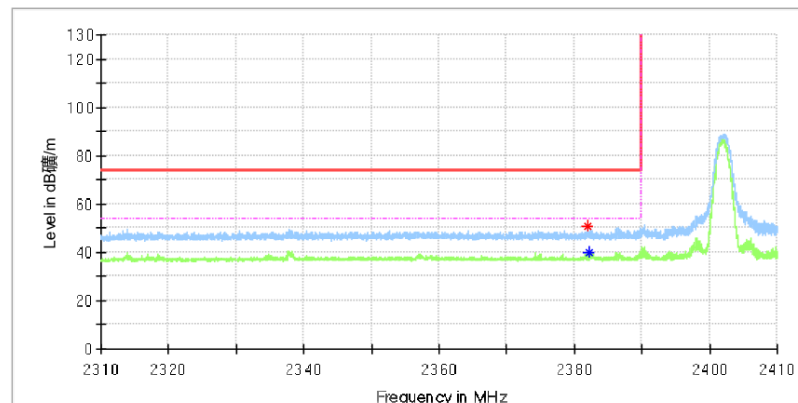
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_Low CH
Test Voltage::	Full Battery
Remark:	Temp 23 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)
2382.029412	51.03	---	74.00	22.97	100.0	H	236.0	7.0
2382.117647	---	40.06	54.00	13.94	100.0	H	124.0	7.0

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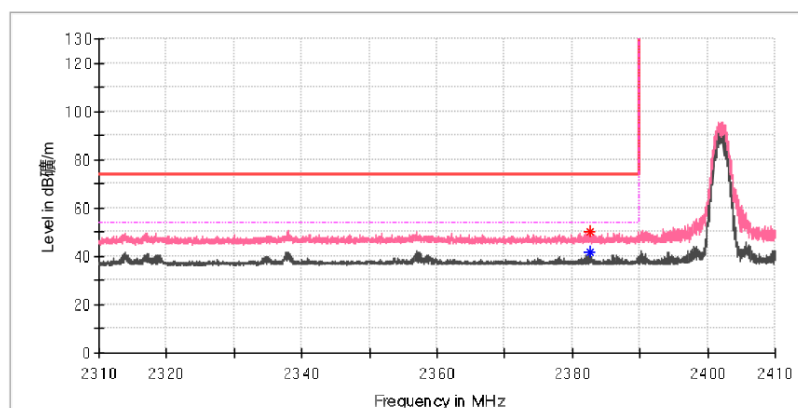
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_Low CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
2382.588235	50.19	---	74.00	23.81	100.0	V	199.0	7.0
2382.632353	---	41.53	54.00	12.47	100.0	V	192.0	7.0

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Band Edge, High Channel

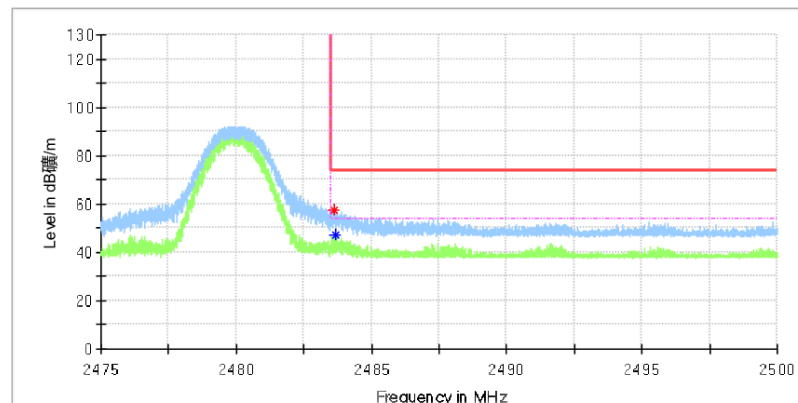
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_High CH
Test Voltage::	Full Battery
Remark:	Temp 23 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)
2483.595588	57.69	---	74.00	16.31	100.0	H	169.0	7.4
2483.669118	---	47.28	54.00	6.72	100.0	H	169.0	7.4

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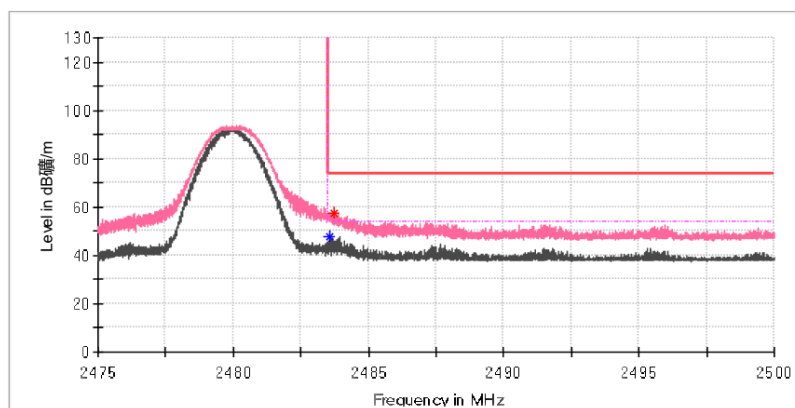
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	BLE_TX_High CH
Test Voltage:	Full Battery
Remark:	Temp 23 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)
2483.569853	—	48.06	54.00	5.94	100.0	V	195.0	7.4
2483.702206	57.61	—	74.00	16.39	100.0	V	188.0	7.4

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

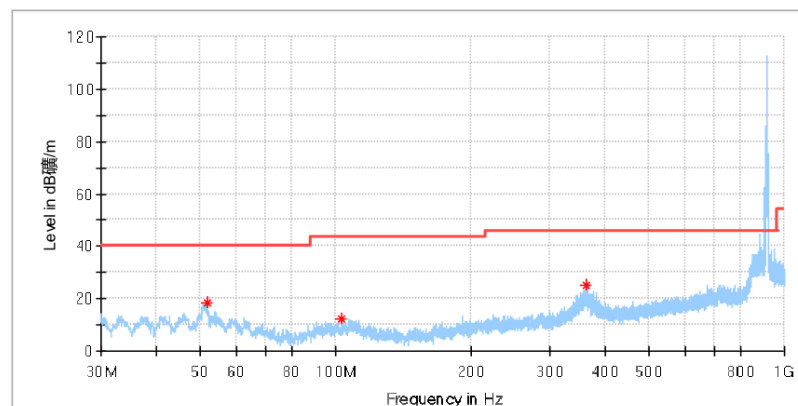
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora DTS 500K Low CH_902.5MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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)
51.631000	18.37	---	40.00	21.63	100.0	H	0.0	-18.6
103.041000	12.52	---	43.50	30.98	100.0	H	0.0	-19.2
362.225000	25.36	---	46.00	20.64	100.0	H	99.0	-14.9

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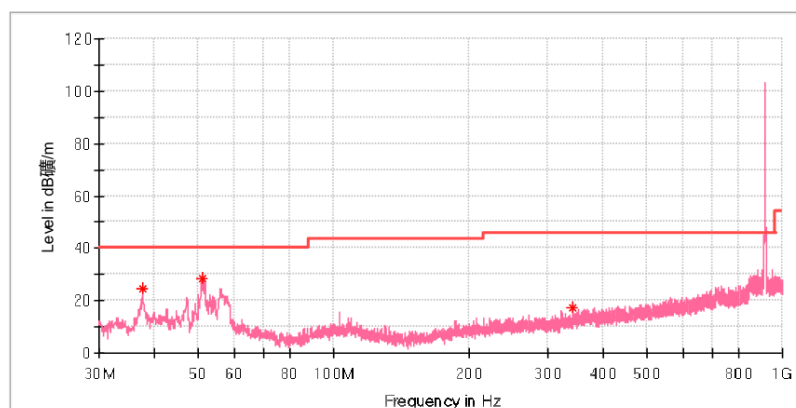
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
TestMode:	Lora DTS 500K Low CH_902.5MHz
TestVoltage::	Full Battery
Remark:	Temp 23 Humi:45%
TestStandard:	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)
37.469000	24.81	---	40.00	15.19	100.0	V	238.0	-21.3
51.194500	28.65	---	40.00	11.35	100.0	V	314.0	-18.6
341.418500	17.15	---	46.00	28.85	100.0	V	221.0	-15.4

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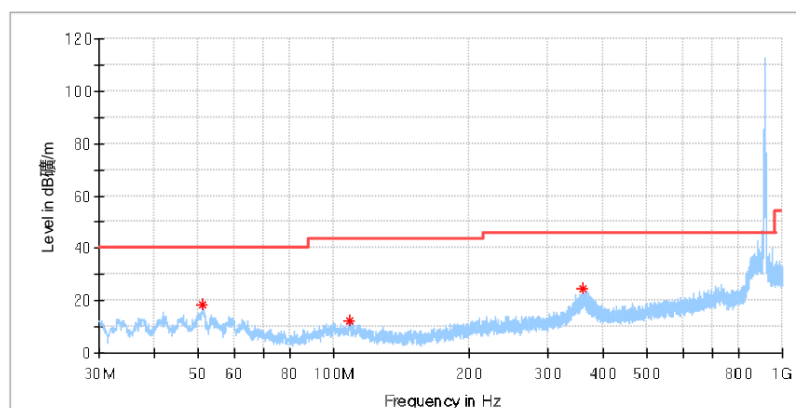
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora DTS 500K High CH_926.5MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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)
51.097500	18.69	---	40.00	21.31	100.0	H	188.0	-18.6
108.376000	12.26	---	43.50	31.24	100.0	H	0.0	-19.3
360.042500	24.75	---	46.00	21.25	100.0	H	94.0	-15.0

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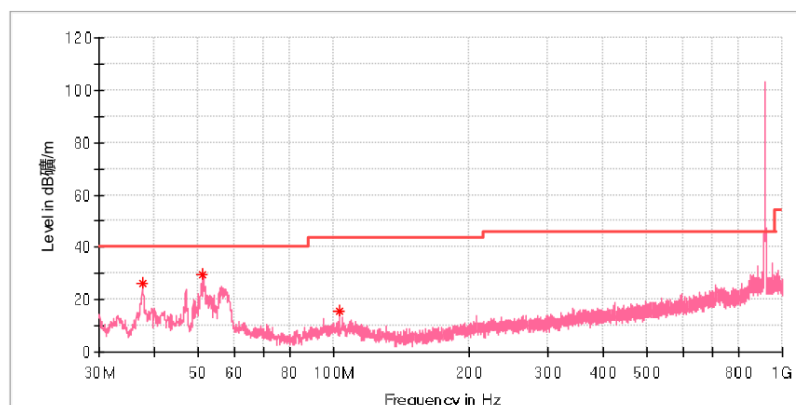
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora DTS 500K High CH_926.5MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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)
37.469000	26.28	---	40.00	13.72	100.0	V	0.0	-21.3
51.146000	29.79	---	40.00	10.21	100.0	V	43.0	-18.6
103.089500	15.40	---	43.50	28.10	100.0	V	0.0	-19.2

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1GHz to 10GHz

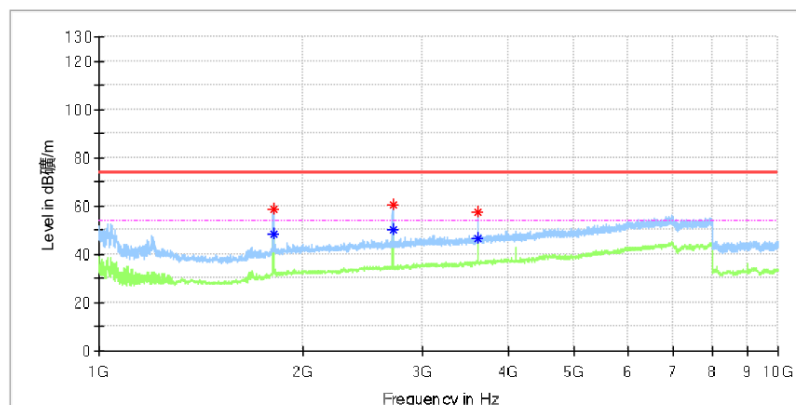
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora DTS 500K Low CH_902.5MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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)
1805.012500	---	48.28	54.00	5.72	100.0	H	136.0	4.8
1805.012500	58.74	---	74.00	15.26	100.0	H	136.0	4.8
2707.000000	60.26	---	74.00	13.74	100.0	H	98.0	7.6
2707.000000	---	50.31	54.00	3.69	100.0	H	98.0	7.6
3608.987500	---	46.59	54.00	7.41	100.0	H	321.0	9.4
3608.987500	57.61	---	74.00	16.39	100.0	H	321.0	9.4

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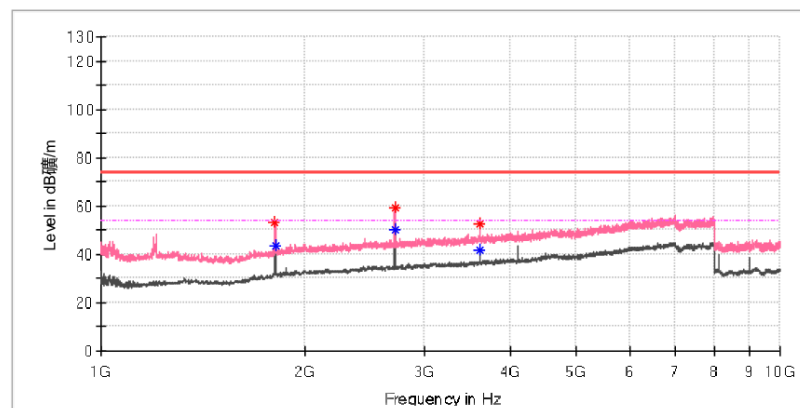
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora DTS 500K Low CH_902.5MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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	52.96	---	74.00	21.04	100.0	V	144.0	4.7
1805.012500	---	43.55	54.00	10.45	100.0	V	153.0	4.8
2707.000000	---	50.39	54.00	3.61	100.0	V	222.0	7.6
2707.837500	59.24	---	74.00	14.76	100.0	V	144.0	7.6
3609.825000	52.45	---	74.00	21.55	100.0	V	51.0	9.4
3611.500000	---	41.84	54.00	12.16	100.0	V	271.0	9.4

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9:44:47 AM

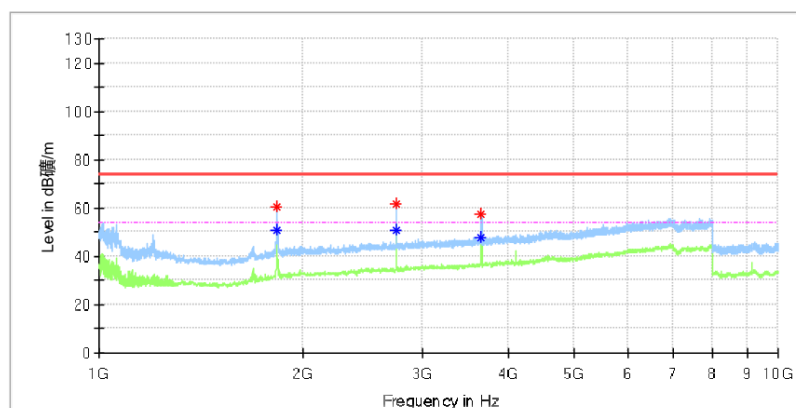
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
TestMode:	Lora DTS 500KMid CH_914.5MHz
TestVoltage::	Full Battery
Remark:	Temp 23 Humi:45%
TestStandard:	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)
1829.300000	60.72	---	74.00	13.28	100.0	H	151.0	4.9
1829.300000	---	50.68	54.00	3.32	100.0	H	151.0	4.9
2743.012500	61.94	---	74.00	12.07	100.0	H	142.0	7.8
2743.850000	---	50.77	54.00	3.23	100.0	H	142.0	7.8
3658.400000	---	47.80	54.00	6.20	100.0	H	198.0	9.4
3658.400000	57.73	---	74.00	16.27	100.0	H	198.0	9.4

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9:44:47 AM

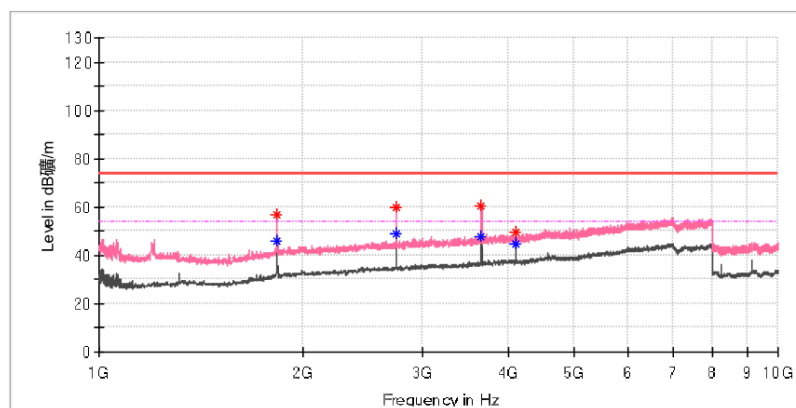
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora DTS 500K Mid CH_914.5MHz
Test Voltage:	Full Battery
Remark:	Temp 23 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	56.98	---	74.00	17.02	100.0	V	151.0	4.9
1828.462500	---	45.80	54.00	8.20	100.0	V	151.0	4.9
2743.012500	---	49.03	54.00	4.97	100.0	V	217.0	7.8
2743.012500	60.08	---	74.00	13.92	100.0	V	217.0	7.8
3657.562500	---	47.99	54.00	6.01	100.0	V	255.0	9.4
3658.400000	60.17	---	74.00	13.83	100.0	V	264.0	9.4
4101.437500	49.78	---	74.00	24.22	100.0	V	299.0	10.1
4101.437500	---	44.65	54.00	9.35	100.0	V	299.0	10.1

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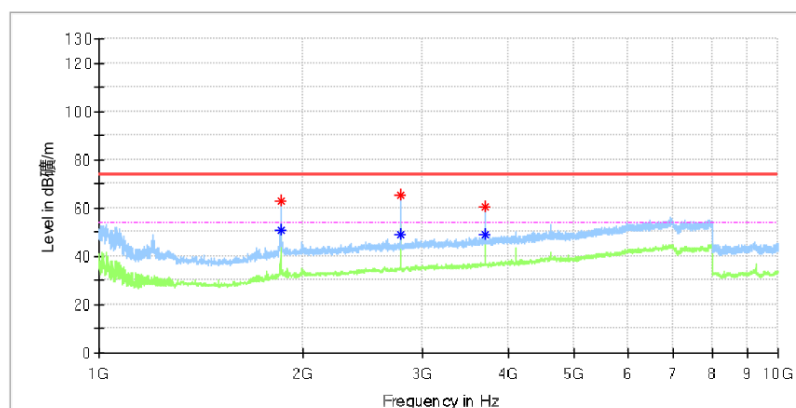
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora DTS 500K High CH_926.5MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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	63.16	---	74.00	10.84	100.0	H	153.0	5.0
1852.750000	---	51.00	54.00	3.00	100.0	H	153.0	5.0
2778.187500	---	48.88	54.00	5.12	100.0	H	125.0	7.9
2779.025000	65.08	---	74.00	8.92	100.0	H	135.0	7.9
3704.462500	---	48.69	54.00	5.31	100.0	H	0.0	9.6
3705.300000	60.53	---	74.00	13.47	100.0	H	125.0	9.6

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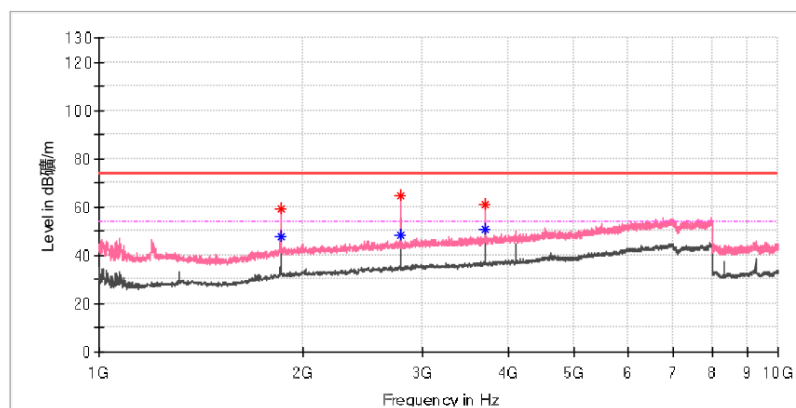
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora DTS 500K High CH_926.5MHz
Test Voltage:	Full Battery
Remark:	Temp 23 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)
1851.912500	59.21	---	74.00	14.79	100.0	V	158.0	5.0
1852.750000	---	47.74	54.00	6.26	100.0	V	158.0	5.0
2779.862500	64.75	---	74.00	9.25	100.0	V	168.0	7.9
2780.700000	---	48.31	54.00	5.69	100.0	V	252.0	7.9
3706.137500	61.18	---	74.00	12.82	100.0	V	252.0	9.6
3706.137500	---	50.74	54.00	3.26	100.0	V	252.0	9.6

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

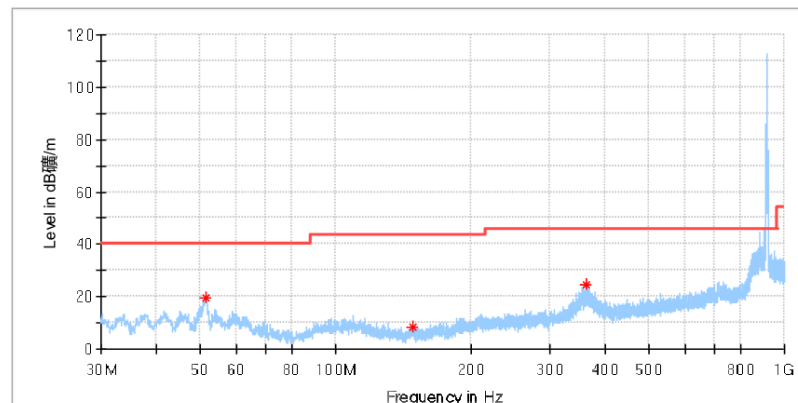
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora FHSS 125K Low CH_902.2MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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)
51.437000	19.47	---	40.00	20.53	100.0	H	232.0	-18.6
148.970500	8.29	---	43.50	35.21	100.0	H	199.0	-22.5
361.788500	24.33	---	46.00	21.67	100.0	H	102.0	-14.9

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6:59:52 PM

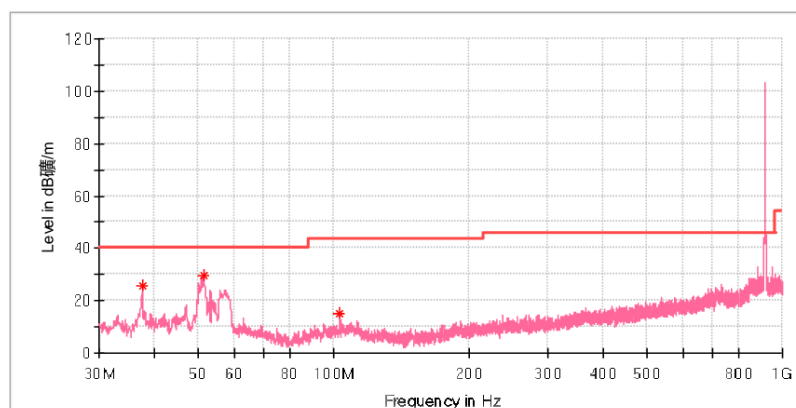
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora FHSS 125K Low CH_902.2MHz
Test Voltage:	Full Battery
Remark:	Temp 23 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)
37.469000	25.60	---	40.00	14.40	100.0	V	52.0	-21.3
51.340000	29.39	---	40.00	10.61	100.0	V	302.0	-18.6
103.138000	15.17	---	43.50	28.33	100.0	V	25.0	-19.2

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6:59:52 PM

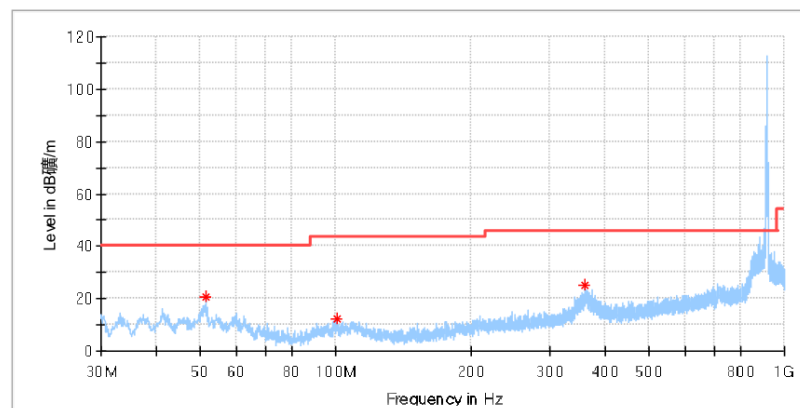
Test

3 / 4

Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora FHSS 125K High CH_927.8MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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)
51.437000	20.70	---	40.00	19.30	100.0	H	359.0	-18.6
100.373500	12.54	---	43.50	30.96	100.0	H	325.0	-19.3
357.811500	25.25	---	46.00	20.76	100.0	H	104.0	-15.0

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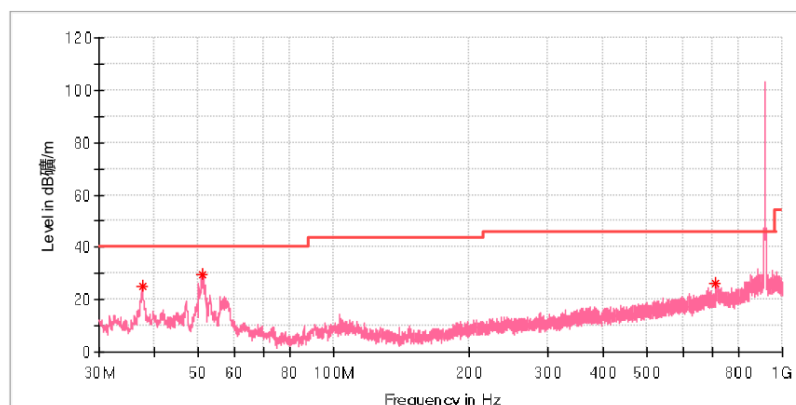
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora FHSS 125K High CH_927.8MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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)
37.517500	25.14	—	40.00	14.86	100.0	V	282.0	-21.2
51.194500	29.69	—	40.00	10.31	100.0	V	1.0	-18.6
709.679000	26.43	—	46.00	19.57	100.0	V	23.0	-8.3

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1GHz to 10GHz

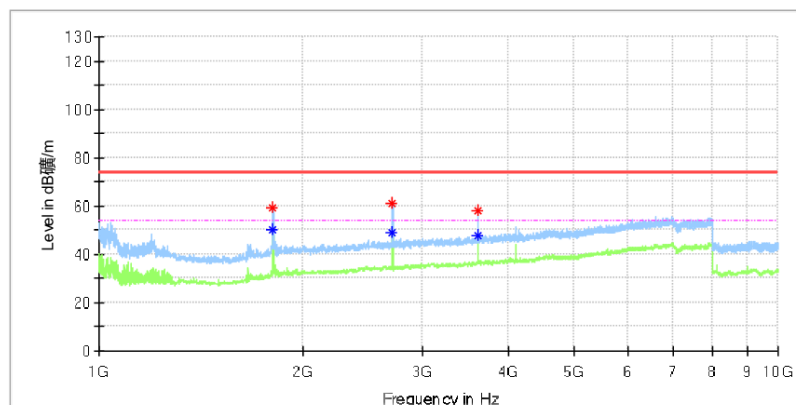
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora FHSS 125K Low CH_902.2MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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	---	50.25	54.00	3.75	100.0	H	145.0	4.7
1804.175000	58.97	---	74.00	15.03	100.0	H	98.0	4.7
2706.162500	60.97	---	74.00	13.03	100.0	H	136.0	7.5
2706.162500	---	48.99	54.00	5.01	100.0	H	136.0	7.5
3608.987500	---	47.86	54.00	6.14	100.0	H	155.0	9.4
3608.987500	57.93	---	74.00	16.07	100.0	H	155.0	9.4

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11:14:38 AM

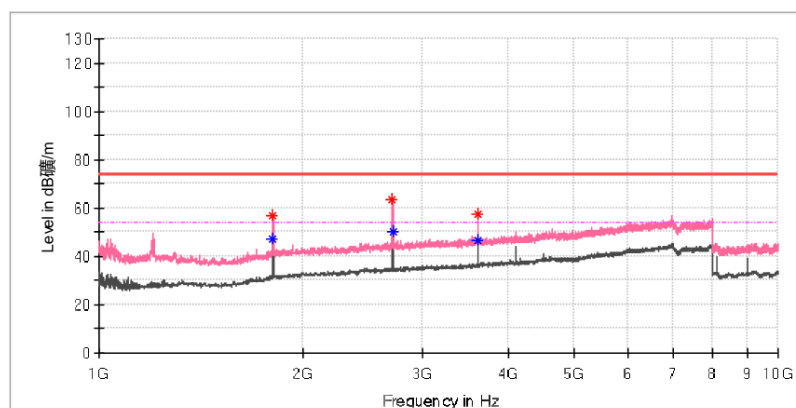
Test

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Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
Test Mode:	Lora FHSS 125K Low CH_902.2MHz
Test Voltage::	Full Battery
Remark:	Temp 23 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	---	46.91	54.00	7.09	100.0	V	312.0	4.7
1804.175000	56.69	---	74.00	17.31	100.0	V	312.0	4.7
2706.162500	63.46	---	74.00	10.54	100.0	V	229.0	7.5
2707.000000	---	50.13	54.00	3.87	100.0	V	139.0	7.6
3608.987500	---	46.34	54.00	7.66	100.0	V	279.0	9.4
3608.987500	57.39	---	74.00	16.61	100.0	V	279.0	9.4

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11:14:38 AM

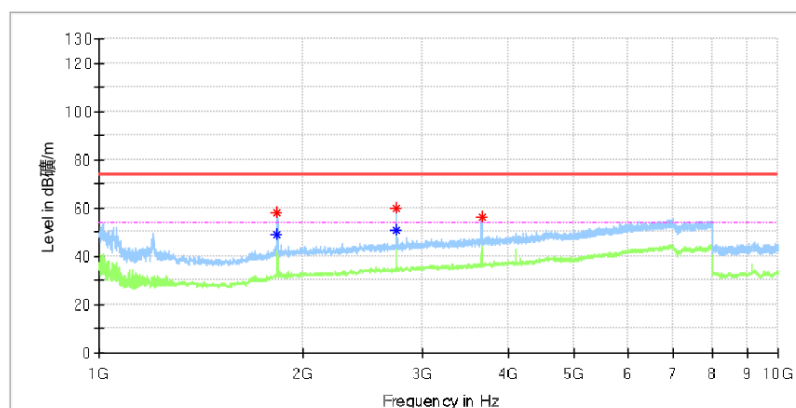
Test

3 / 6

Test Report

EUT Information

EUT Name:	Spotlight Battery
Model:	5B11S8
TestMode:	Lora FHSS 125K Mid CH_915MHz
TestVoltage::	Full Battery
Remark:	Temp 23 Humi:45%
TestStandard:	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)
1830.137500	58.30	---	74.00	15.70	100.0	H	148.0	4.9
1830.137500	---	49.25	54.00	4.75	100.0	H	148.0	4.9
2743.850000	59.87	---	74.00	14.13	100.0	H	337.0	7.8
2744.687500	---	50.72	54.00	3.28	100.0	H	337.0	7.8
3659.237500	56.41	---	74.00	17.59	100.0	H	358.0	9.4

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11:14:38 AM