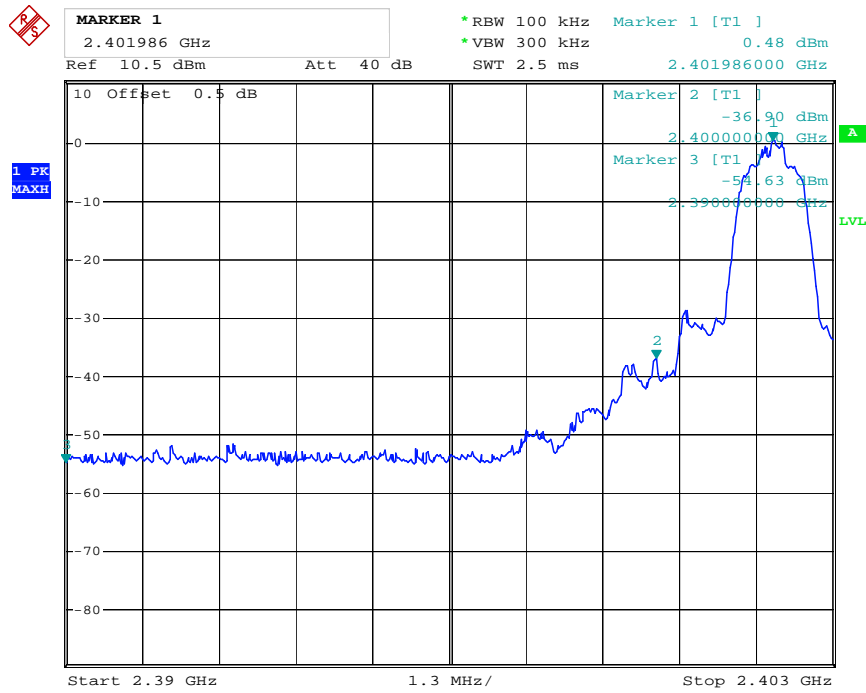
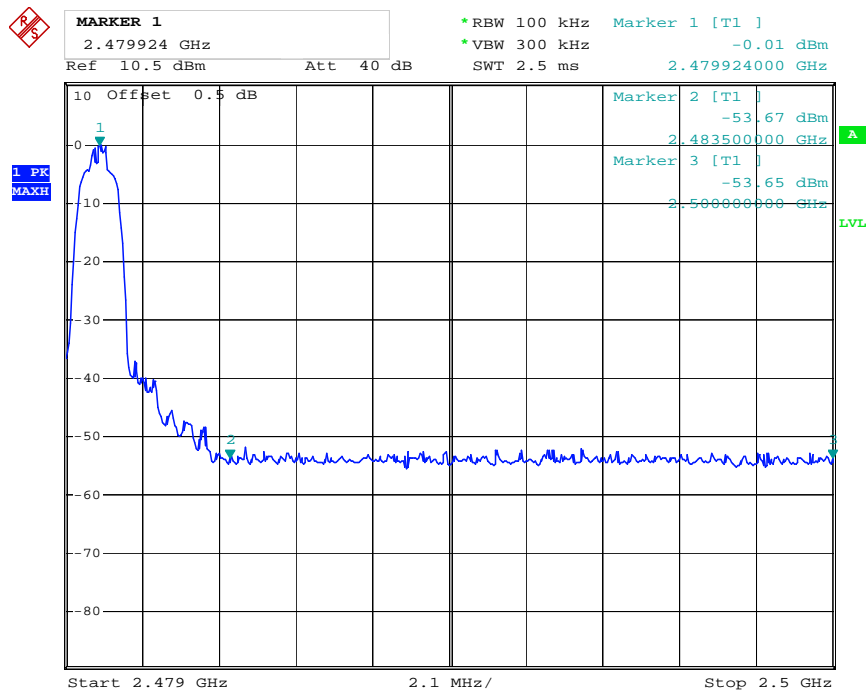


Π/4-DQPSK Mode

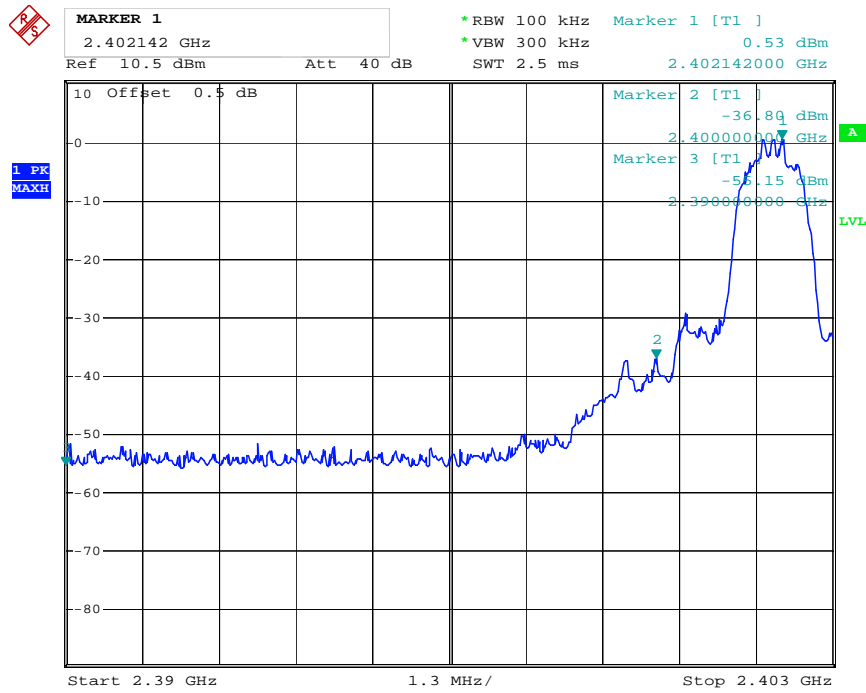


Date: 23.JUL.2015 16:47:13

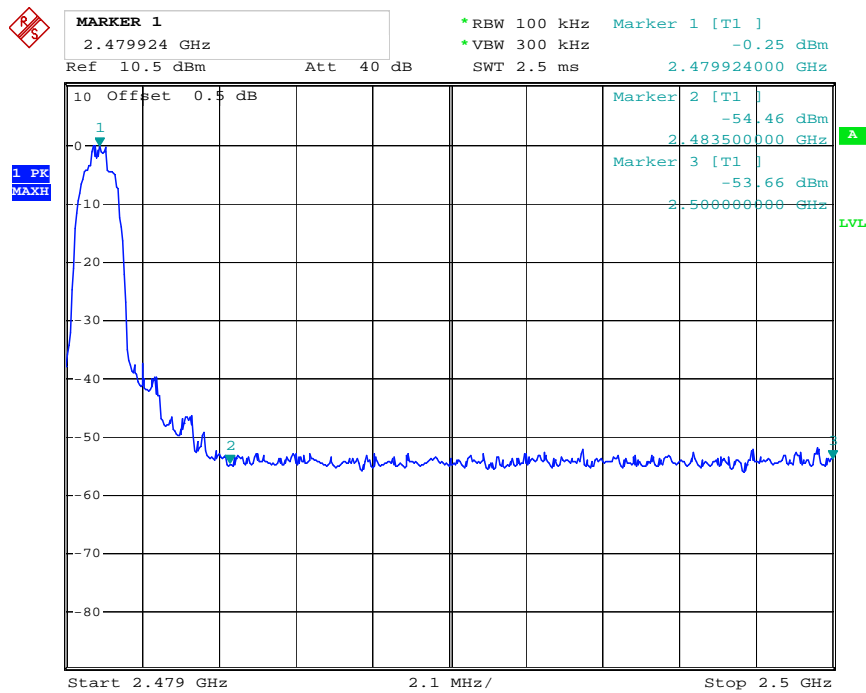


Date: 23.JUL.2015 16:45:59

8DPSK



Date: 23.JUL.2015 16:47:57



Date: 23.JUL.2015 16:48:52

Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.
4. I have tested two different types (BK01DW45A* & BK02DW45A*) of products and recorded the results of the worst case data(above 1GHz).

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.

We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).

We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.

Non-hopping mode


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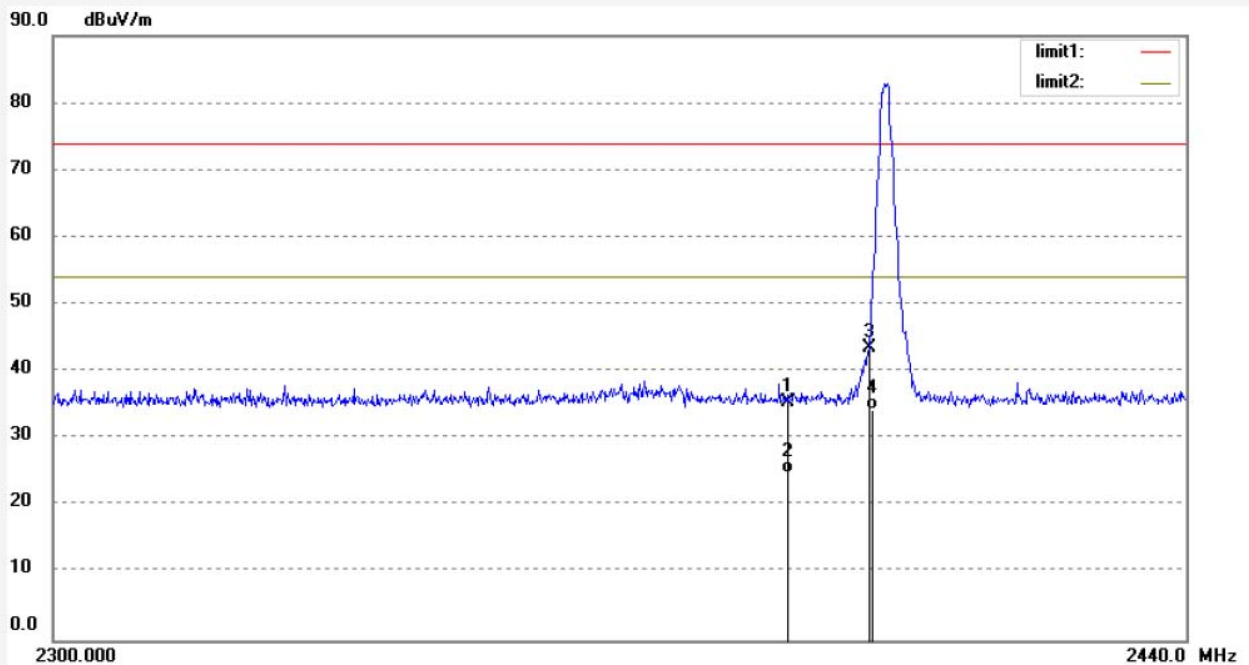
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1524	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/33/57
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2402MHz(GFSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790

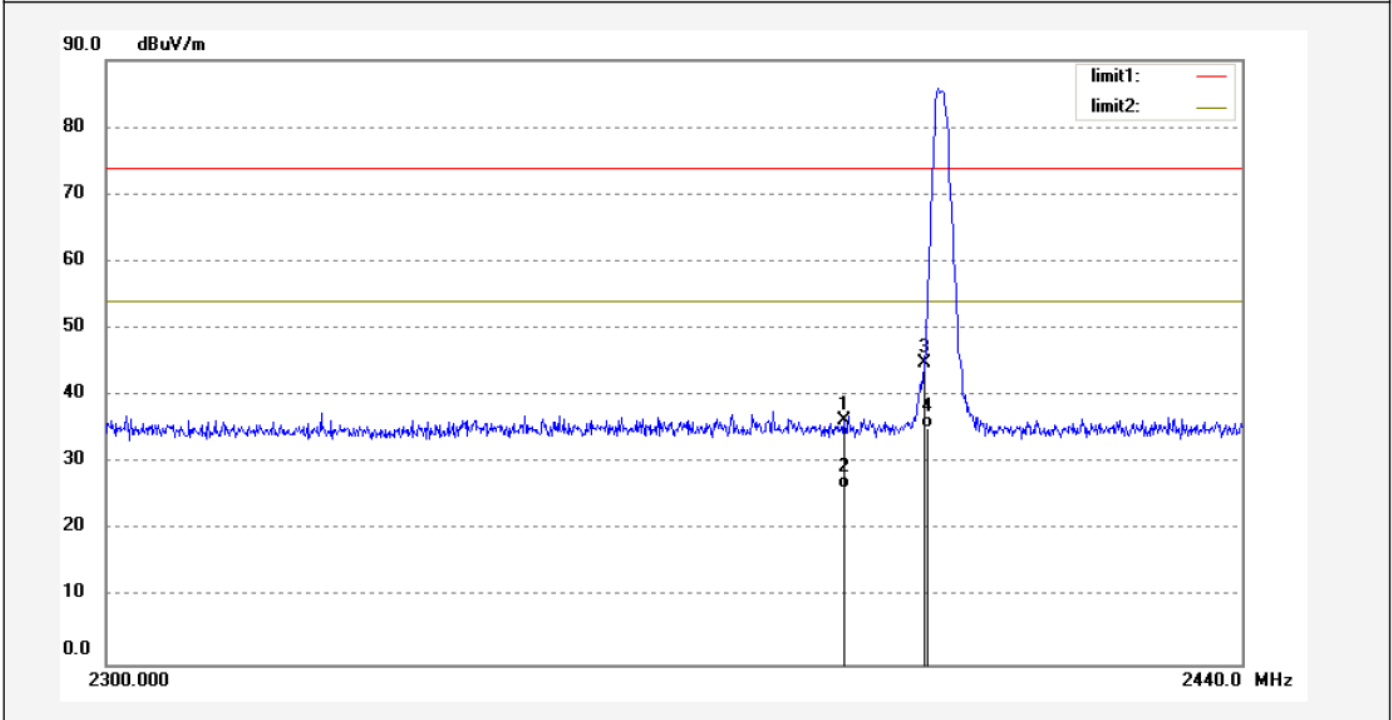


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.38	-8.00	35.38	74.00	-38.62	peak			
2	2390.000	32.97	-8.00	24.97	54.00	-29.03	peak			
3	2400.000	51.56	-7.97	43.59	74.00	-30.41	peak			
4	2400.000	42.22	-7.97	34.25	54.00	-19.75	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1523	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/30/43
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2402MHz(GFSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.32	-8.00	36.32	74.00	-37.68	peak			
2	2390.000	34.25	-8.00	26.25	54.00	-27.75	peak			
3	2400.000	52.85	-7.97	44.88	74.00	-29.12	peak			
4	2400.000	43.29	-7.97	35.32	54.00	-18.68	peak			

Note: Average measurement with peak detection at No.2&4



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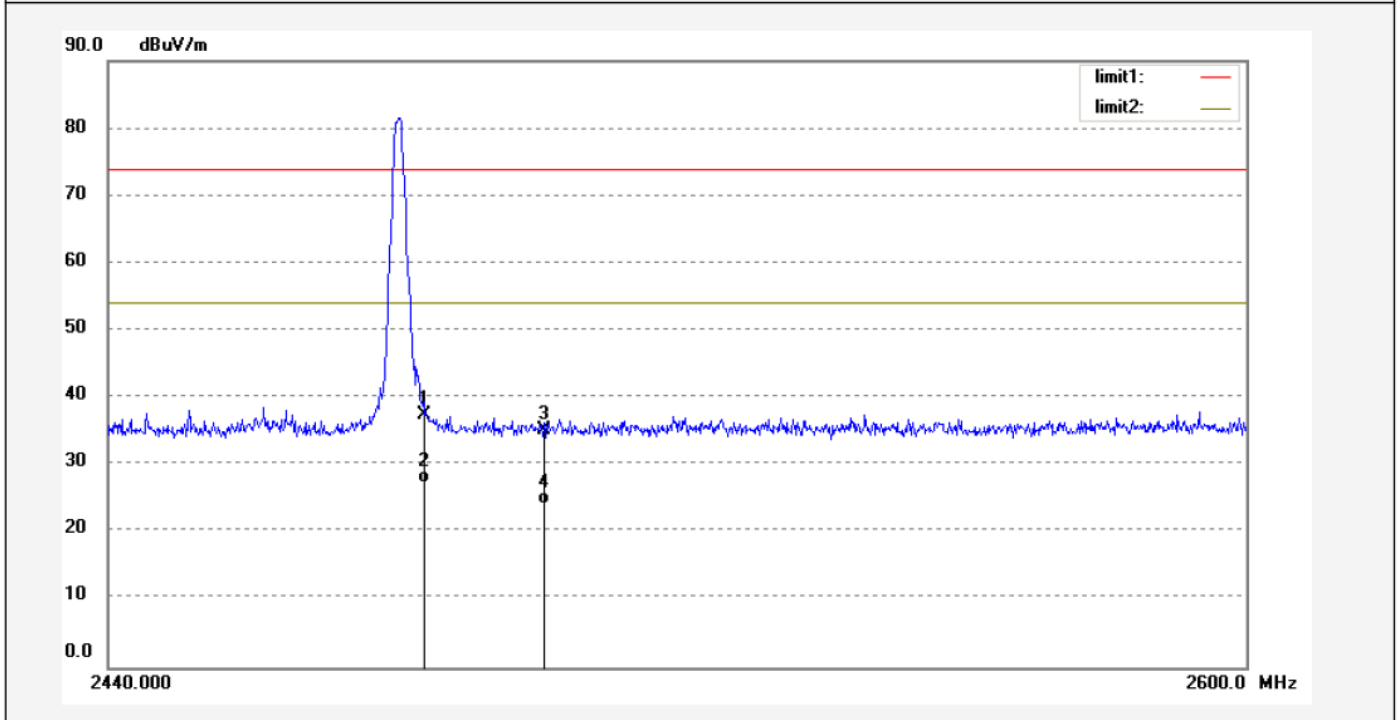
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1525	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/35/23
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2480MHz(GFSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.31	-7.76	37.55	74.00	-36.45	peak			
2	2483.500	35.14	-7.76	27.38	54.00	-26.62	peak			
3	2500.000	42.99	-7.71	35.28	74.00	-38.72	peak			
4	2500.000	31.99	-7.71	24.28	54.00	-29.72	peak			

Note: Average measurement with peak detection at No.2&4



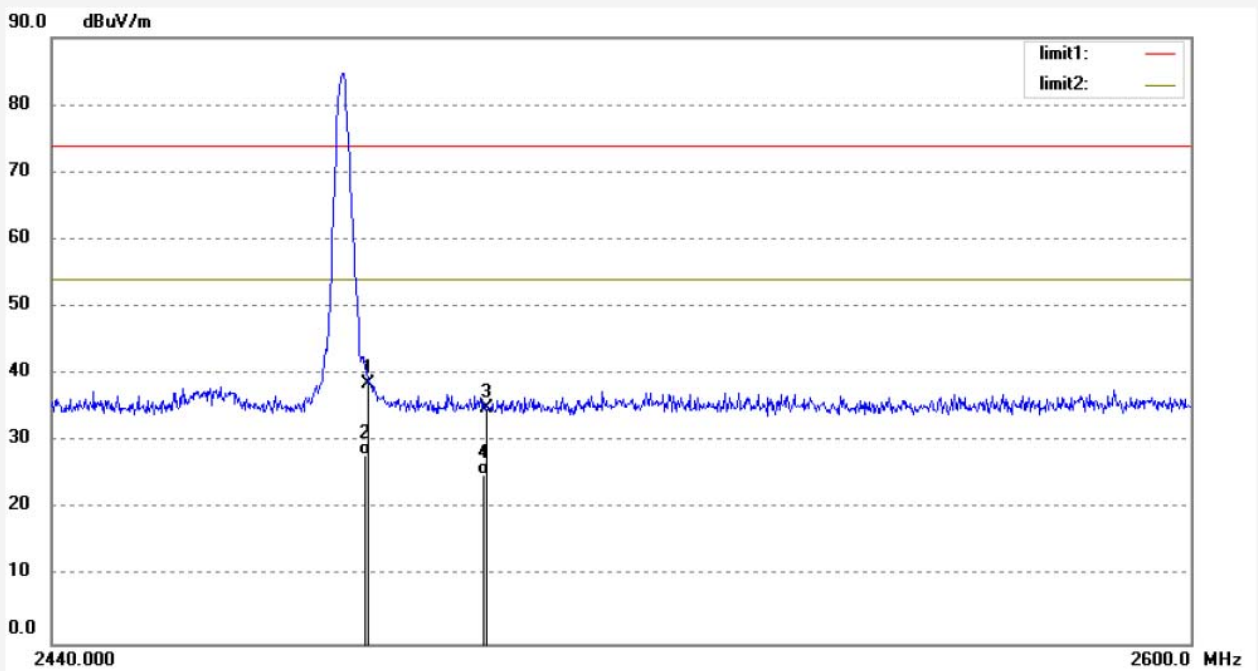
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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2015 #1526	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/36/11
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2480MHz(GFSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790

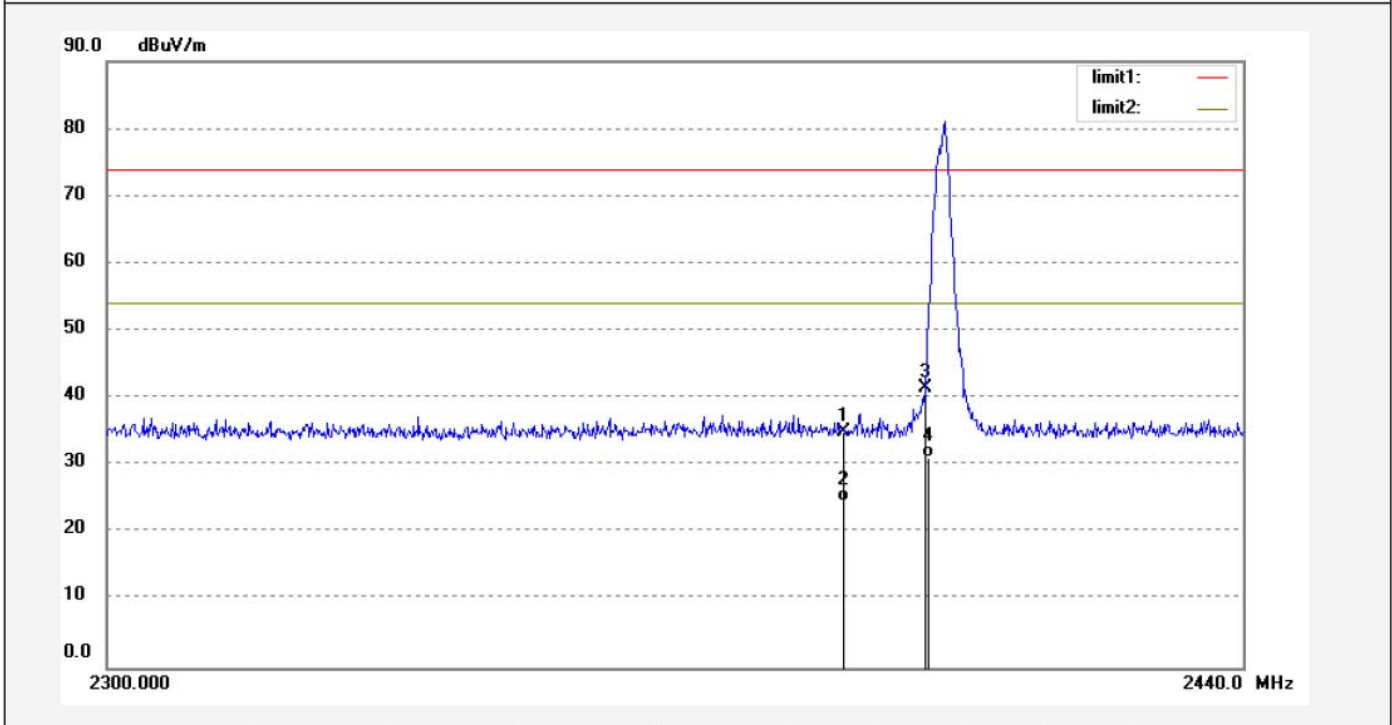


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.45	-7.76	38.69	74.00	-35.31	peak			
2	2483.500	35.87	-7.76	28.11	54.00	-25.89	peak			
3	2500.000	42.59	-7.71	34.88	74.00	-39.12	peak			
4	2500.000	32.69	-7.71	24.98	54.00	-29.02	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1529	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/41/53
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2402MHz(pi/4DQPSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	42.93	-8.00	34.93	74.00	-39.07	peak			
2	2390.000	32.67	-8.00	24.67	54.00	-29.33	peak			
3	2400.000	49.50	-7.97	41.53	74.00	-32.47	peak			
4	2400.000	39.11	-7.97	31.14	54.00	-22.86	peak			

Note: Average measurement with peak detection at No.2&4



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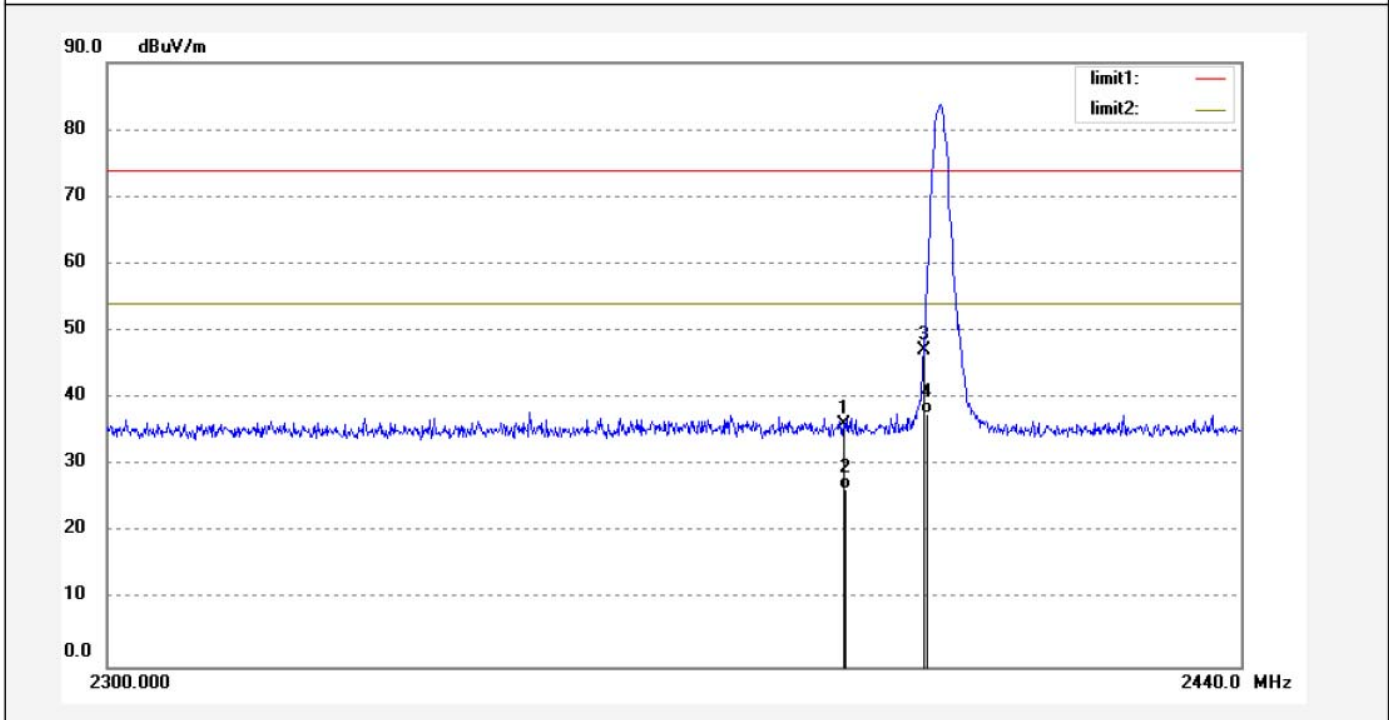
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1530	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/42/50
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2402MHz(pi/4DQPSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790



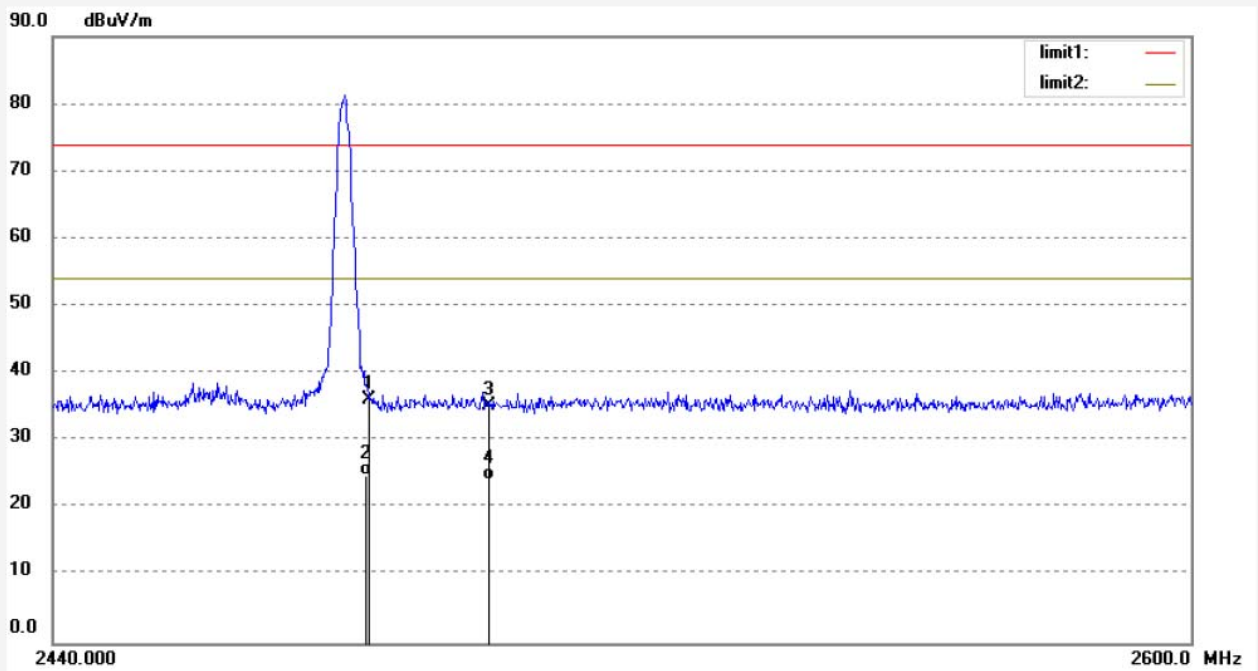
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.10	-8.00	36.10	74.00	-37.90	peak			
2	2390.000	34.52	-8.00	26.52	54.00	-27.48	peak			
3	2400.000	55.18	-7.97	47.21	74.00	-26.79	peak			
4	2400.000	45.69	-7.97	37.72	54.00	-16.28	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1528
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Flicks Portable Projector
 Mode: TX 2480MHz(pi/4DQPSK)
 Model: BK02DW45A*
 Manufacturer: Dashbon, Inc.

Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 15/08/04/
 Time: 9/40/42
 Engineer Signature:
 Distance: 1m

Note: Report No.:ATE20151790



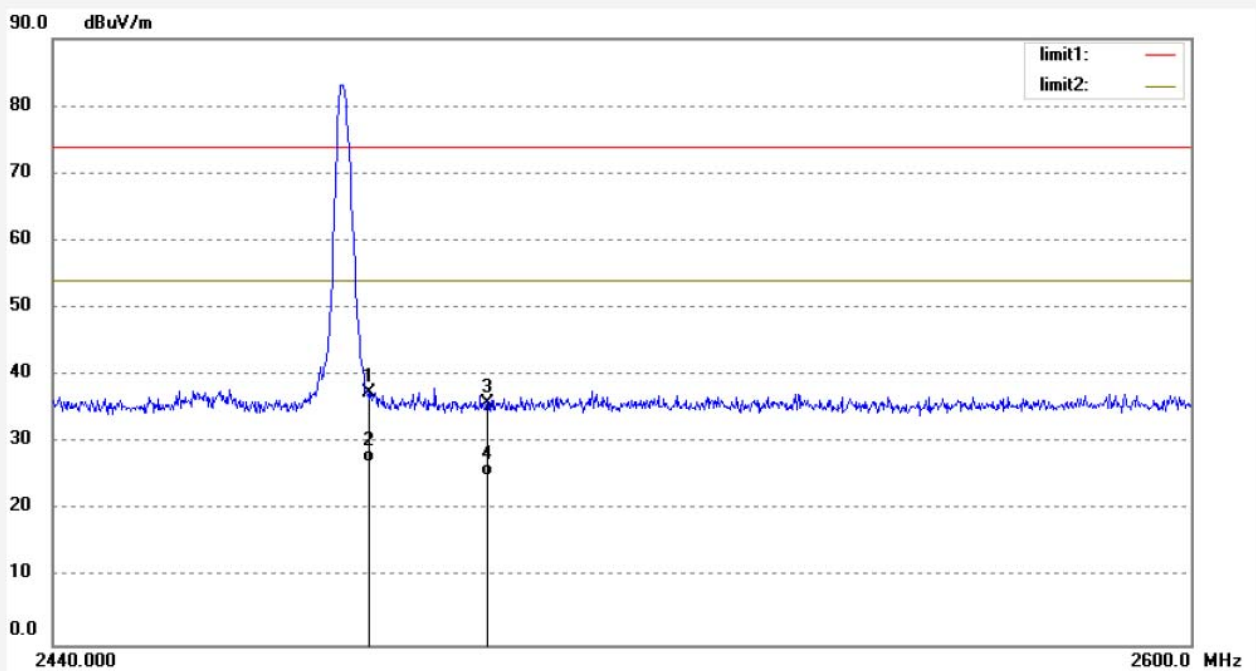
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	43.79	-7.76	36.03	74.00	-37.97	peak			
2	2483.500	32.58	-7.76	24.82	54.00	-29.18	peak			
3	2500.000	42.93	-7.71	35.22	74.00	-38.78	peak			
4	2500.000	32.00	-7.71	24.29	54.00	-29.71	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1527
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Flicks Portable Projector
 Mode: TX 2480MHz(pi/4DQPSK)
 Model: BK02DW45A*
 Manufacturer: Dashbon, Inc.

Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 15/08/04/
 Time: 9/39/39
 Engineer Signature:
 Distance: 1m

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.28	-7.76	37.52	74.00	-36.48	peak			
2	2483.500	34.88	-7.76	27.12	54.00	-26.88	peak			
3	2500.000	43.62	-7.71	35.91	74.00	-38.09	peak			
4	2500.000	32.69	-7.71	24.98	54.00	-29.02	peak			

Note: Average measurement with peak detection at No.2&4



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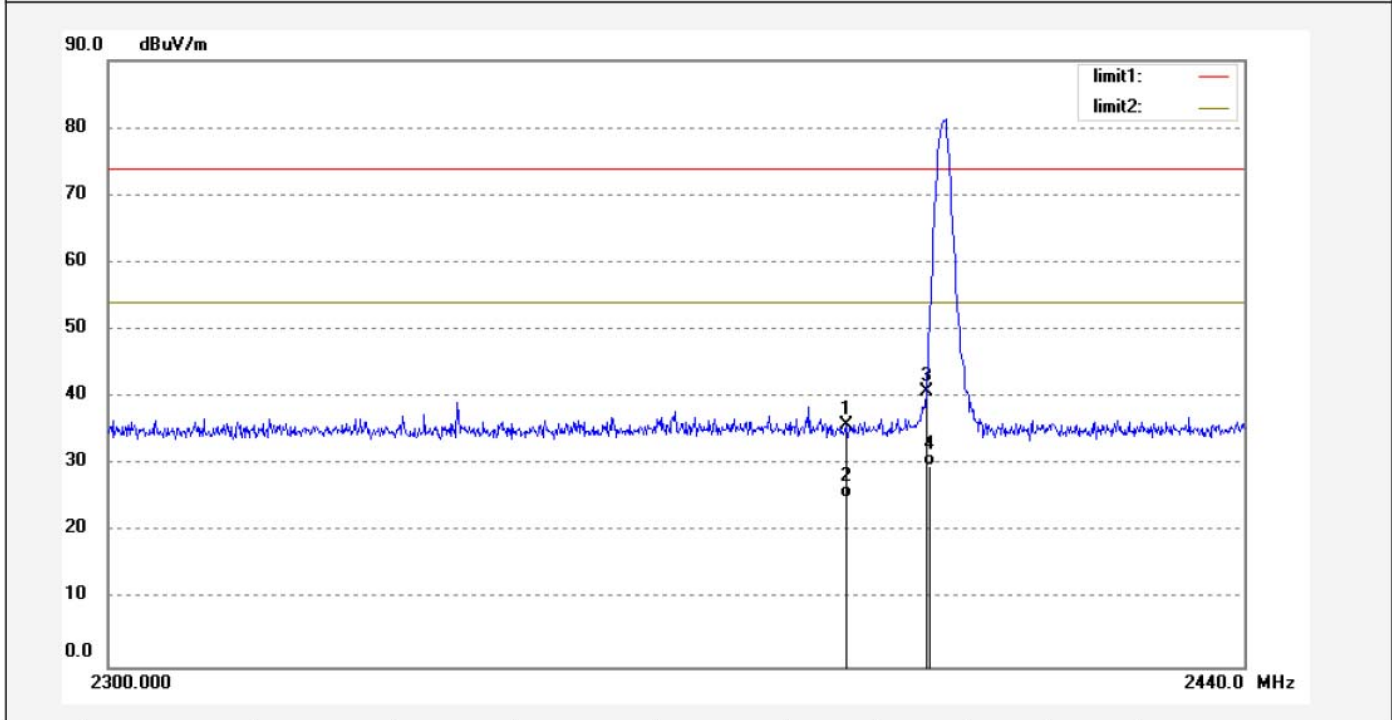
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1532	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/45/56
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2402MHz(8DPSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790

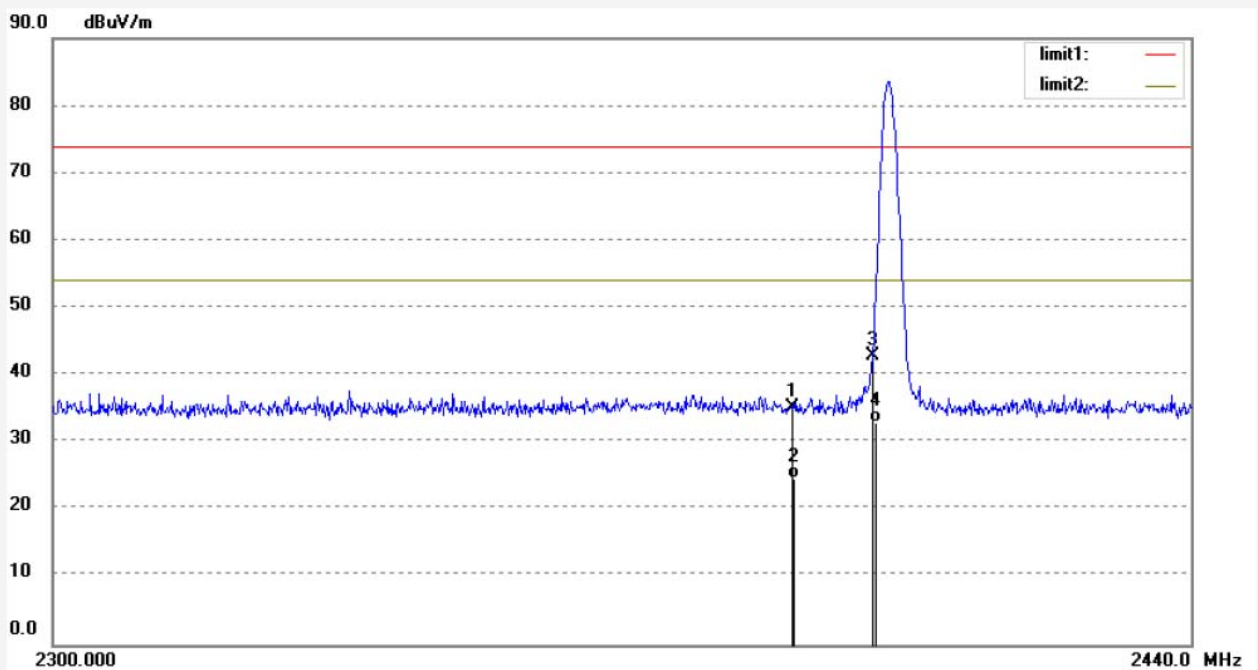


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.97	-8.00	35.97	74.00	-38.03	peak			
2	2390.000	32.99	-8.00	24.99	54.00	-29.01	peak			
3	2400.000	48.87	-7.97	40.90	74.00	-33.10	peak			
4	2400.000	37.69	-7.97	29.72	54.00	-24.28	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1531	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/45/11
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2402MHz(8DPSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.18	-8.00	35.18	74.00	-38.82	peak			
2	2390.000	32.58	-8.00	24.58	54.00	-29.42	peak			
3	2400.000	50.94	-7.97	42.97	74.00	-31.03	peak			
4	2400.000	40.84	-7.97	32.87	54.00	-21.13	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: star2015 #1533

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Flicks Portable Projector

Mode: TX 2480MHz(8DPSK)

Model: BK02DW45A*

Manufacturer: Dashbon, Inc.

Polarization: Horizontal

Power Source: AC 120V/60Hz

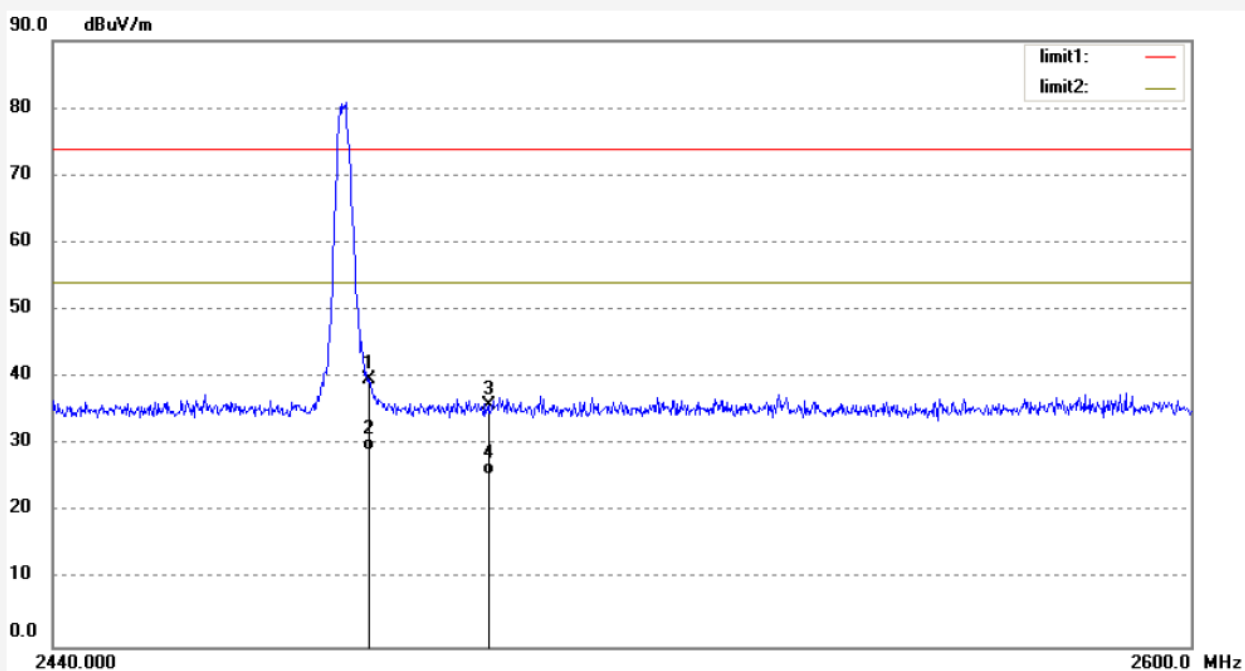
Date: 15/08/04/

Time: 9/47/16

Engineer Signature:

Distance: 1m

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	47.57	-7.76	39.81	74.00	-34.19	peak			
2	2483.500	36.89	-7.76	29.13	54.00	-24.87	peak			
3	2500.000	43.63	-7.71	35.92	74.00	-38.08	peak			
4	2500.000	33.25	-7.71	25.54	54.00	-28.46	peak			

Note: Average measurement with peak detection at No.2&4



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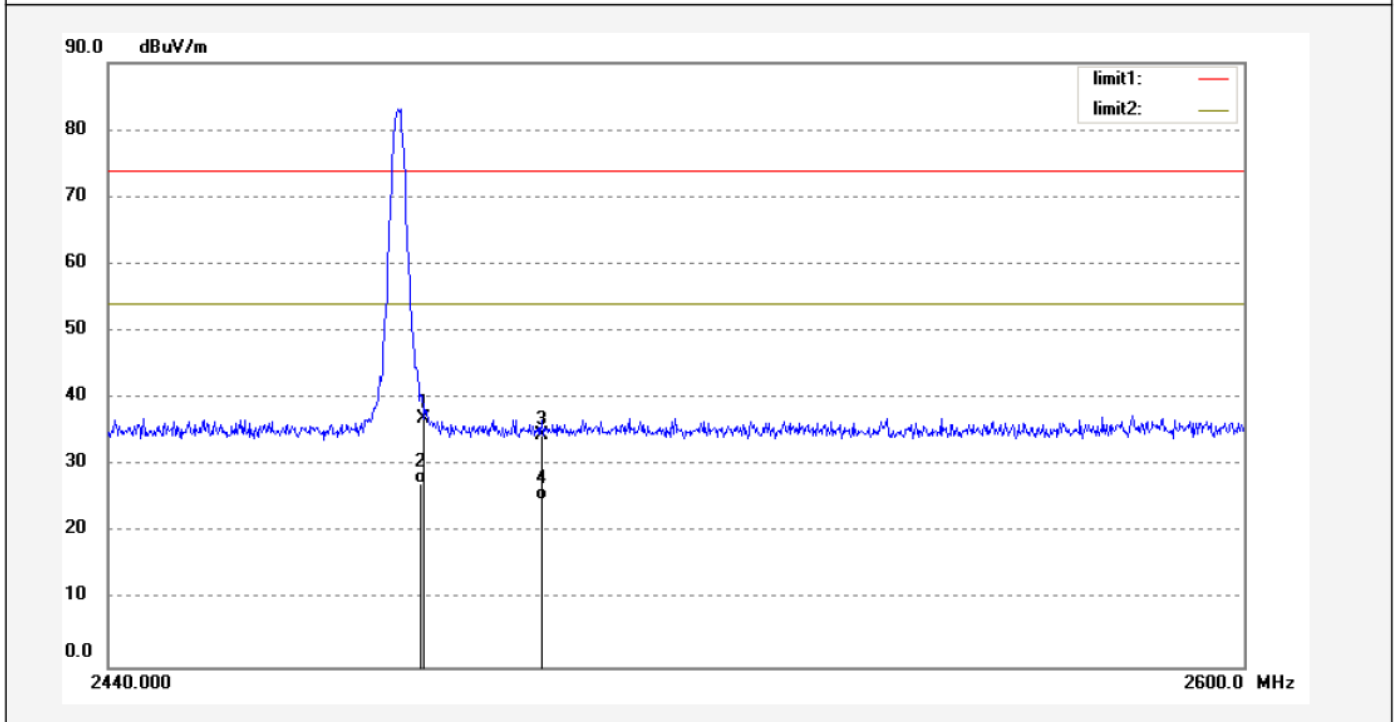
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1534	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/04/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/48/03
EUT: Flicks Portable Projector	Engineer Signature:
Mode: TX 2480MHz(8DPSK)	Distance: 1m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	44.88	-7.76	37.12	74.00	-36.88	peak			
2	2483.500	35.10	-7.76	27.34	54.00	-26.66	peak			
3	2500.000	42.27	-7.71	34.56	74.00	-39.44	peak			
4	2500.000	32.67	-7.71	24.96	54.00	-29.04	peak			

Note: Average measurement with peak detection at No.2&4

Hopping mode


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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #1540

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Flicks Portable Projector

Mode: HOPPING (GFSK)

Model: BK02DW45A*

Manufacturer: Dashbon, Inc.

Polarization: Horizontal

Power Source: AC 120V/60Hz

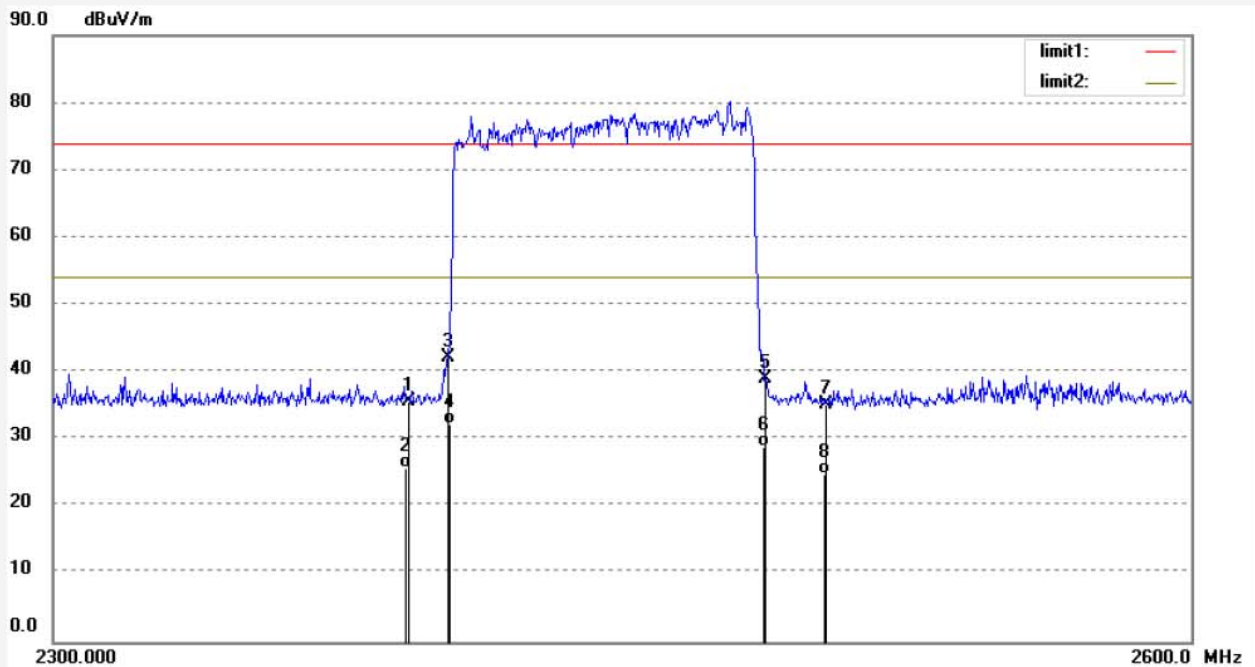
Date: 15/08/05/

Time: 8/40/05

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20151790



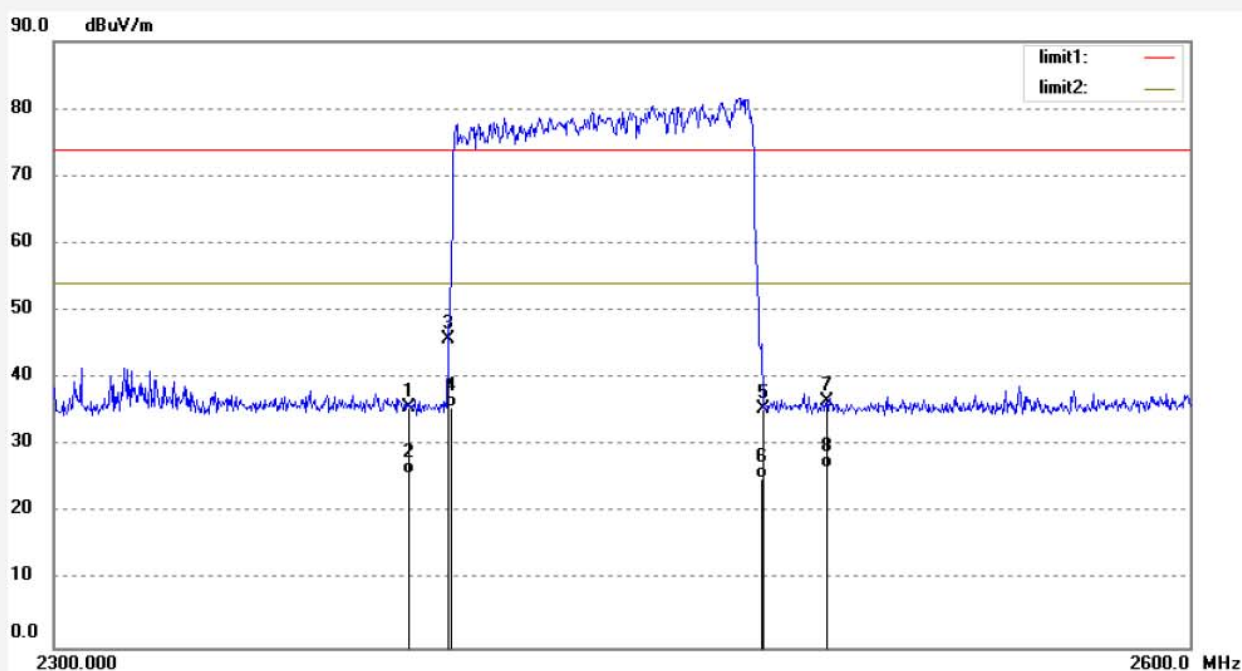
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.73	-8.00	35.73	74.00	-38.27	peak			
2	2390.000	33.67	-8.00	25.67	54.00	-28.33	peak			
3	2400.000	50.11	-7.97	42.14	74.00	-31.86	peak			
4	2400.000	40.24	-7.97	32.27	54.00	-21.73	peak			
5	2483.500	46.70	-7.76	38.94	74.00	-35.06	peak			
6	2483.500	36.58	-7.76	28.82	54.00	-25.18	peak			
7	2500.000	42.97	-7.71	35.26	74.00	-38.74	peak			
8	2500.000	32.57	-7.71	24.86	54.00	-29.14	peak			

Note: Average measurement with peak detection at No.2, 4, 6, 8

Job No.: star2015 #1539
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Flicks Portable Projector
 Mode: HOPPING (GFSK)
 Model: BK02DW45A*
 Manufacturer: Dashbon, Inc.

Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 15/08/05/
 Time: 8/37/04
 Engineer Signature:
 Distance: 3m

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.59	-8.00	35.59	74.00	-38.41	peak			
2	2390.000	33.69	-8.00	25.69	54.00	-28.31	peak			
3	2400.000	53.83	-7.97	45.86	74.00	-28.14	peak			
4	2400.000	43.72	-7.97	35.75	54.00	-18.25	peak			
5	2483.500	43.21	-7.76	35.45	74.00	-38.55	peak			
6	2483.500	32.81	-7.76	25.05	54.00	-28.95	peak			
7	2500.000	44.38	-7.71	36.67	74.00	-37.33	peak			
8	2500.000	34.27	-7.71	26.56	54.00	-27.44	peak			

Note: Average measurement with peak detection at No.2, 4, 6, 8

Job No.: star2015 #1541

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Flicks Portable Projector

Mode: HOPPING (pi/4DQPSK)

Model: BK02DW45A*

Manufacturer: Dashbon, Inc.

Polarization: Horizontal

Power Source: AC 120V/60Hz

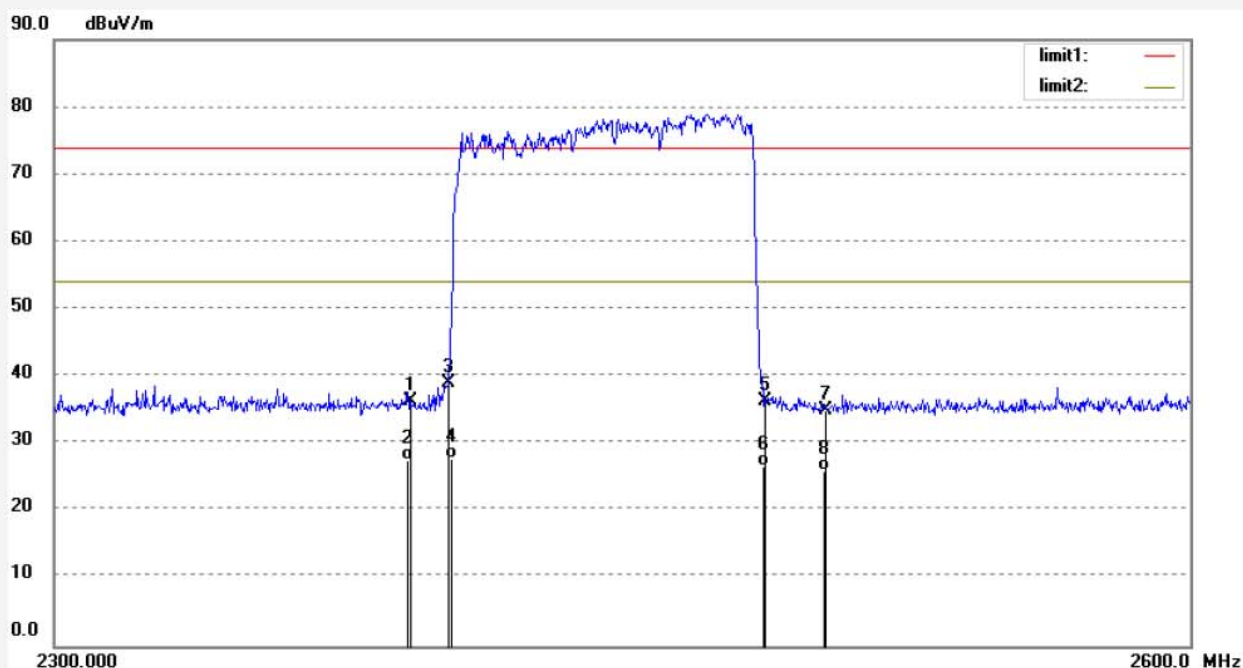
Date: 15/08/05/

Time: 8/43/34

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.33	-8.00	36.33	74.00	-37.67	peak			
2	2390.000	35.61	-8.00	27.61	54.00	-26.39	peak			
3	2400.000	46.91	-7.97	38.94	74.00	-35.06	peak			
4	2400.000	35.87	-7.97	27.90	54.00	-26.10	peak			
5	2483.500	44.01	-7.76	36.25	74.00	-37.75	peak			
6	2483.500	34.52	-7.76	26.76	54.00	-27.24	peak			
7	2500.000	42.73	-7.71	35.02	74.00	-38.98	peak			
8	2500.000	33.66	-7.71	25.95	54.00	-28.05	peak			

Note: Average measurement with peak detection at No.2, 4, 6, 8

Job No.: star2015 #1542

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Flicks Portable Projector

Mode: HOPPING (pi/4DQPSK)

Model: BK02DW45A*

Manufacturer: Dashbon, Inc.

Polarization: Vertical

Power Source: AC 120V/60Hz

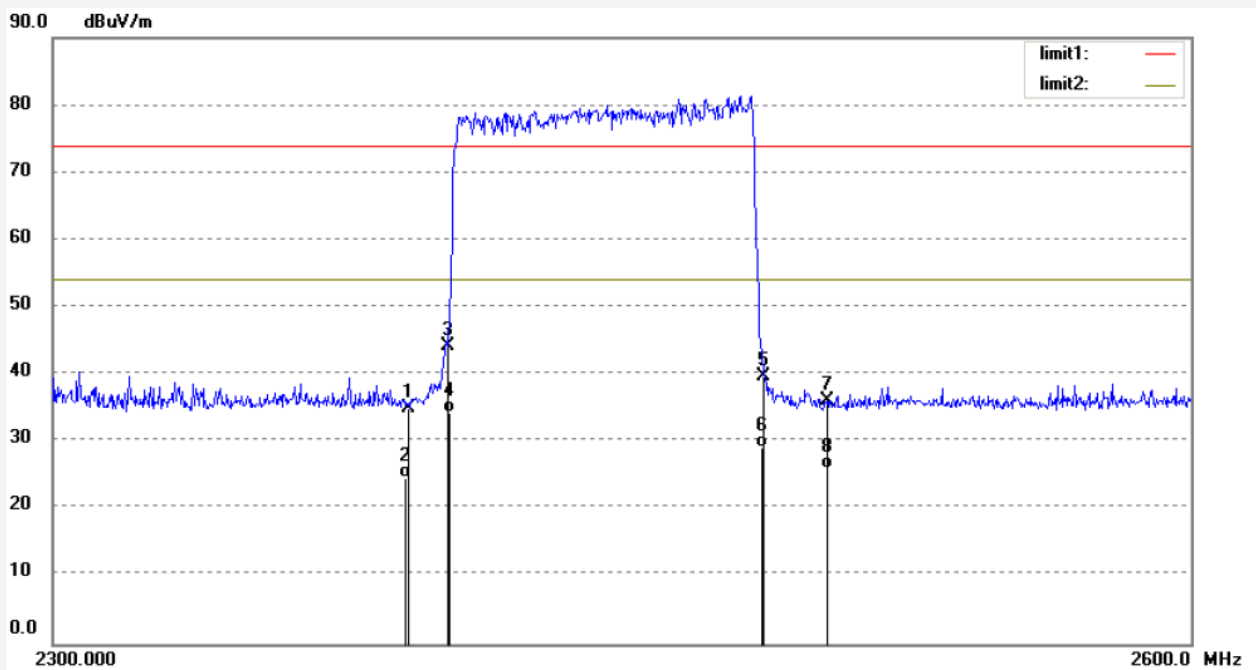
Date: 15/08/05/

Time: 8/47/07

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20151790

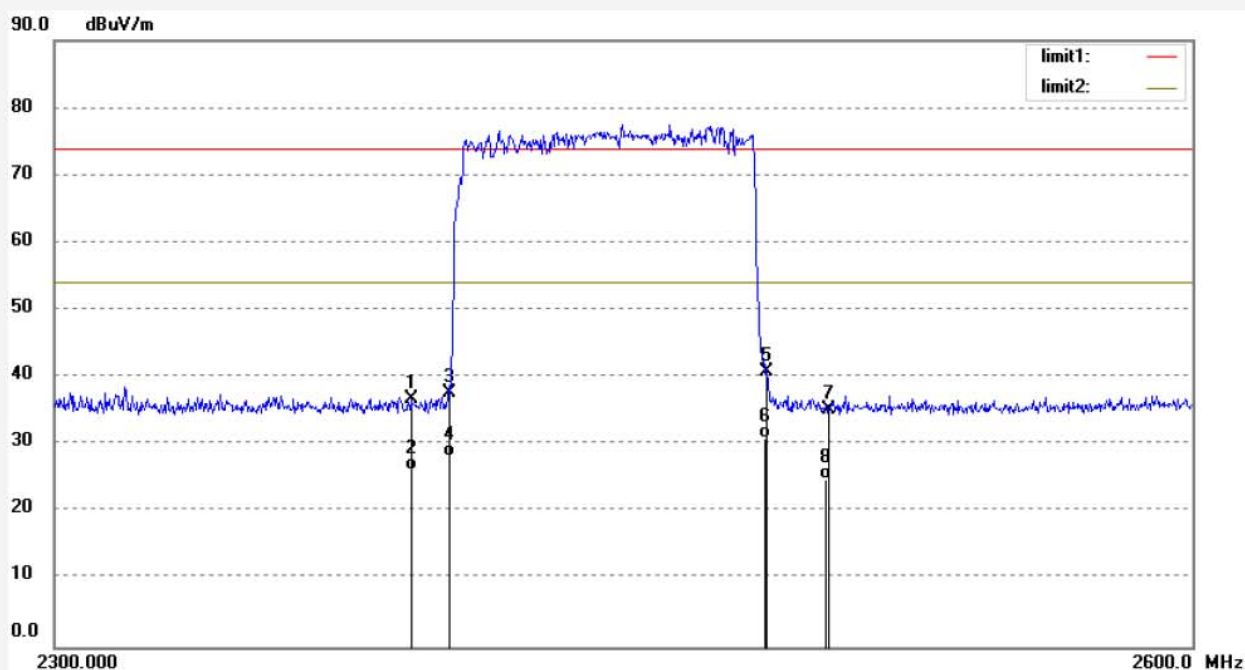


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	42.93	-8.00	34.93	74.00	-39.07	peak			
2	2390.000	32.61	-8.00	24.61	54.00	-29.39	peak			
3	2400.000	52.26	-7.97	44.29	74.00	-29.71	peak			
4	2400.000	42.17	-7.97	34.20	54.00	-19.80	peak			
5	2483.500	47.44	-7.76	39.68	74.00	-34.32	peak			
6	2483.500	36.87	-7.76	29.11	54.00	-24.89	peak			
7	2500.000	43.85	-7.71	36.14	74.00	-37.86	peak			
8	2500.000	33.66	-7.71	25.95	54.00	-28.05	peak			

Note: Average measurement with peak detection at No.2, 4, 6, 8

Job No.: star2015 #1544	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/08/05/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 8/52/56
EUT: Flicks Portable Projector	Engineer Signature:
Mode: HOPPING (8DPSK)	Distance: 3m
Model: BK02DW45A*	
Manufacturer: Dashbon, Inc.	

Note: Report No.:ATE20151790



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.81	-8.00	36.81	74.00	-37.19	peak			
2	2390.000	34.22	-8.00	26.22	54.00	-27.78	peak			
3	2400.000	45.75	-7.97	37.78	74.00	-36.22	peak			
4	2400.000	36.10	-7.97	28.13	54.00	-25.87	peak			
5	2483.500	48.64	-7.76	40.88	74.00	-33.12	peak			
6	2483.500	38.67	-7.76	30.91	54.00	-23.09	peak			
7	2500.000	42.92	-7.71	35.21	74.00	-38.79	peak			
8	2500.000	32.57	-7.71	24.86	54.00	-29.14	peak			

Note: Average measurement with peak detection at No.2, 4, 6, 8

Job No.: star2015 #1543

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Flicks Portable Projector

Mode: HOPPING (8DPSK)

Model: BK02DW45A*

Manufacturer: Dashbon, Inc.

Polarization: Vertical

Power Source: AC 120V/60Hz

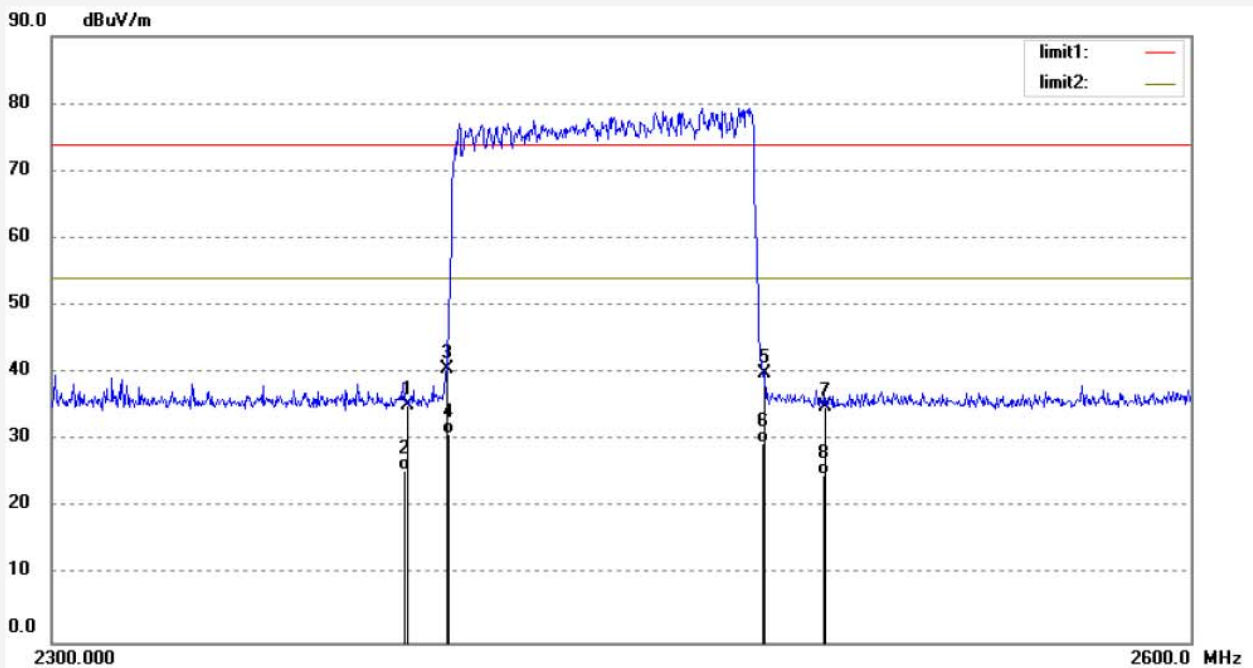
Date: 15/08/05/

Time: 8/50/57

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20151790



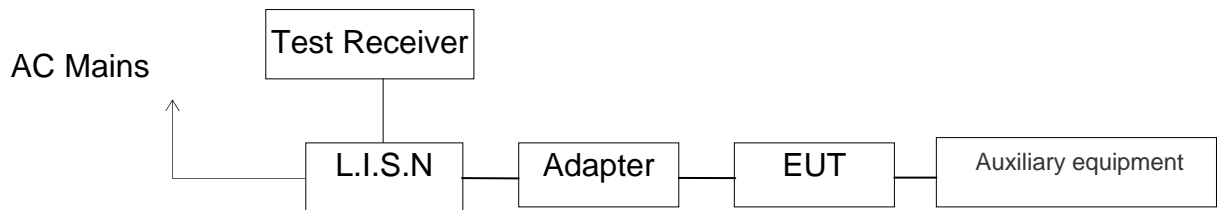
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.11	-8.00	35.11	74.00	-38.89	peak			
2	2390.000	33.56	-8.00	25.56	54.00	-28.44	peak			
3	2400.000	48.63	-7.97	40.66	74.00	-33.34	peak			
4	2400.000	38.94	-7.97	30.97	54.00	-23.03	peak			
5	2483.500	47.72	-7.76	39.96	74.00	-34.04	peak			
6	2483.500	37.24	-7.76	29.48	54.00	-24.52	peak			
7	2500.000	42.65	-7.71	34.94	74.00	-39.06	peak			
8	2500.000	32.60	-7.71	24.89	54.00	-29.11	peak			

Note: Average measurement with peak detection at No.2, 4, 6, 8

12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

15 SECTION 15.207(A)

12.1.Block Diagram of Test Setup



(EUT: Flicks Portable Projector)

12.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

NOTE1: The lower limit shall apply at the transition frequencies.
 NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

12.3.Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 5.1.

12.4.2.Turn on the power of all equipment.

12.4.3.Let the EUT work in test mode and measure it.

12.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

12.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : BT communicating(AC 120V/60Hz) EUT mode : BK01DW45A*								
MEASUREMENT RESULT: "ZYE019_fin"								
2015-8-1 9:30								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.374000	40.10	11.2	58	18.3	QP	L1	GND	
1.856000	34.10	11.7	56	21.9	QP	L1	GND	
12.863000	34.40	11.9	60	25.6	QP	L1	GND	
MEASUREMENT RESULT: "ZYE019_fin2"								
2015-8-1 9:30								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.374000	39.30	11.2	48	9.1	AV	L1	GND	
1.852000	29.70	11.7	46	16.3	AV	L1	GND	
12.597500	29.30	11.9	50	20.7	AV	L1	GND	
MEASUREMENT RESULT: "ZYE018_fin"								
2015-8-1 9:28								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.376000	40.60	11.2	58	17.8	QP	N	GND	
1.856000	34.10	11.7	56	21.9	QP	N	GND	
12.350000	34.40	11.9	60	25.6	QP	N	GND	
MEASUREMENT RESULT: "ZYE018_fin2"								
2015-8-1 9:28								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.376000	40.30	11.2	48	8.1	AV	N	GND	
1.850000	29.50	11.7	46	16.5	AV	N	GND	
12.372500	29.20	11.9	50	20.8	AV	N	GND	

Test mode : BT communicating(AC 240V/60Hz) EUT mode : BK01DW45A*								
MEASUREMENT RESULT: "ZYE002_fin"								
2015-7-30 15:43								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dB μ V	dB	dB μ V	dB				
0.387000	38.50	11.3	58	19.6	QP	L1	GND	
0.732000	27.40	11.5	56	28.6	QP	L1	GND	
1.989000	31.00	11.7	56	25.0	QP	L1	GND	
MEASUREMENT RESULT: "ZYE002_fin2"								
2015-7-30 15:43								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dB μ V	dB	dB μ V	dB				
0.384000	35.40	11.2	48	12.8	AV	L1	GND	
0.729000	25.70	11.5	46	20.3	AV	L1	GND	
1.989000	28.80	11.7	46	17.2	AV	L1	GND	
MEASUREMENT RESULT: "ZYE001_fin"								
2015-7-30 15:40								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dB μ V	dB	dB μ V	dB				
0.387000	41.00	11.3	58	17.1	QP	N	GND	
0.726000	29.20	11.5	56	26.8	QP	N	GND	
1.965000	29.30	11.7	56	26.7	QP	N	GND	
MEASUREMENT RESULT: "ZYE001_fin2"								
2015-7-30 15:40								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dB μ V	dB	dB μ V	dB				
0.387000	34.50	11.3	48	13.6	AV	N	GND	
0.726000	26.50	11.5	46	19.5	AV	N	GND	
1.962000	28.50	11.7	46	17.5	AV	N	GND	

Test mode : BT communicating(AC 120V/60Hz) EUT mode : BK02DW45A*								
MEASUREMENT RESULT: "ZYE016_fin"								
2015-8-1 9:23								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.376000	41.10	11.2	58	17.3	QP	L1	GND	
1.854000	34.30	11.7	56	21.7	QP	L1	GND	
12.804500	34.50	11.9	60	25.5	QP	L1	GND	
MEASUREMENT RESULT: "ZYE016_fin2"								
2015-8-1 9:23								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.374000	40.20	11.2	48	8.2	AV	L1	GND	
1.848000	29.80	11.7	46	16.2	AV	L1	GND	
12.854000	29.40	11.9	50	20.6	AV	L1	GND	
MEASUREMENT RESULT: "ZYE017_fin"								
2015-8-1 9:26								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.376000	40.80	11.2	58	17.6	QP	N	GND	
1.856000	34.50	11.7	56	21.5	QP	N	GND	
13.056500	33.90	11.9	60	26.1	QP	N	GND	
MEASUREMENT RESULT: "ZYE017_fin2"								
2015-8-1 9:26								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.376000	40.30	11.2	48	8.1	AV	N	GND	
1.852000	29.80	11.7	46	16.2	AV	N	GND	
12.768500	29.50	11.9	50	20.5	AV	N	GND	

Test mode : BT communicating(AC 240V/60Hz) EUT mode : BK02DW45A*								
MEASUREMENT RESULT: "ZYE011_fin"								
2015-8-1 9:08								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.375000	41.60	11.2	58	16.8	QP	L1	GND	
0.723000	33.30	11.5	56	22.7	QP	L1	GND	
1.905000	37.40	11.7	56	18.6	QP	L1	GND	
MEASUREMENT RESULT: "ZYE011_fin2"								
2015-8-1 9:08								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.375000	39.70	11.2	48	8.7	AV	L1	GND	
0.723000	30.90	11.5	46	15.1	AV	L1	GND	
1.902000	33.50	11.7	46	12.5	AV	L1	GND	
MEASUREMENT RESULT: "ZYE010_fin"								
2015-8-1 9:05								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.378000	38.80	11.2	58	19.5	QP	N	GND	
0.696000	34.30	11.5	56	21.7	QP	N	GND	
1.902000	37.30	11.7	56	18.7	QP	N	GND	
MEASUREMENT RESULT: "ZYE010_fin2"								
2015-8-1 9:05								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.375000	39.40	11.2	48	9.0	AV	N	GND	
0.696000	31.80	11.5	46	14.2	AV	N	GND	
1.902000	35.00	11.7	46	11.0	AV	N	GND	

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

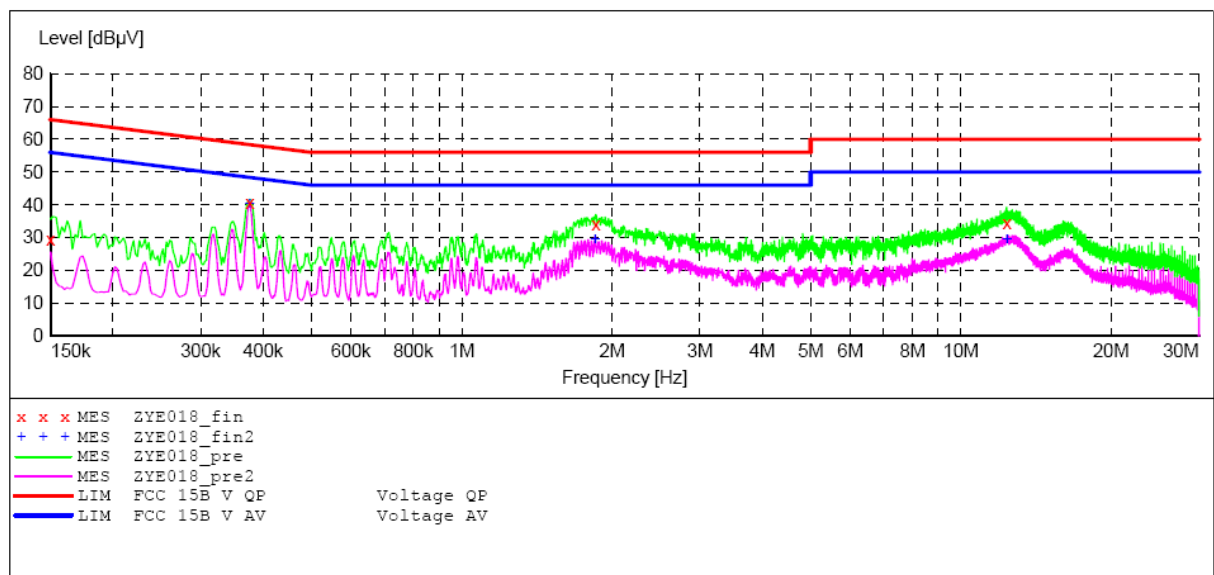
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Flicks Portable Projector M/N:BK01DW45A*
 Manufacturer: Dashbon, Inc.
 Operating Condition: BT OPERATION
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20151790
 Start of Test: 2015-8-1 / 9:27:04

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "ZYE018_fin"

2015-8-1 9:28

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.376000	40.60	11.2	58	17.8	QP	N	GND
1.856000	34.10	11.7	56	21.9	QP	N	GND
12.350000	34.40	11.9	60	25.6	QP	N	GND

MEASUREMENT RESULT: "ZYE018_fin2"

2015-8-1 9:28

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.376000	40.30	11.2	48	8.1	AV	N	GND
1.850000	29.50	11.7	46	16.5	AV	N	GND
12.372500	29.20	11.9	50	20.8	AV	N	GND

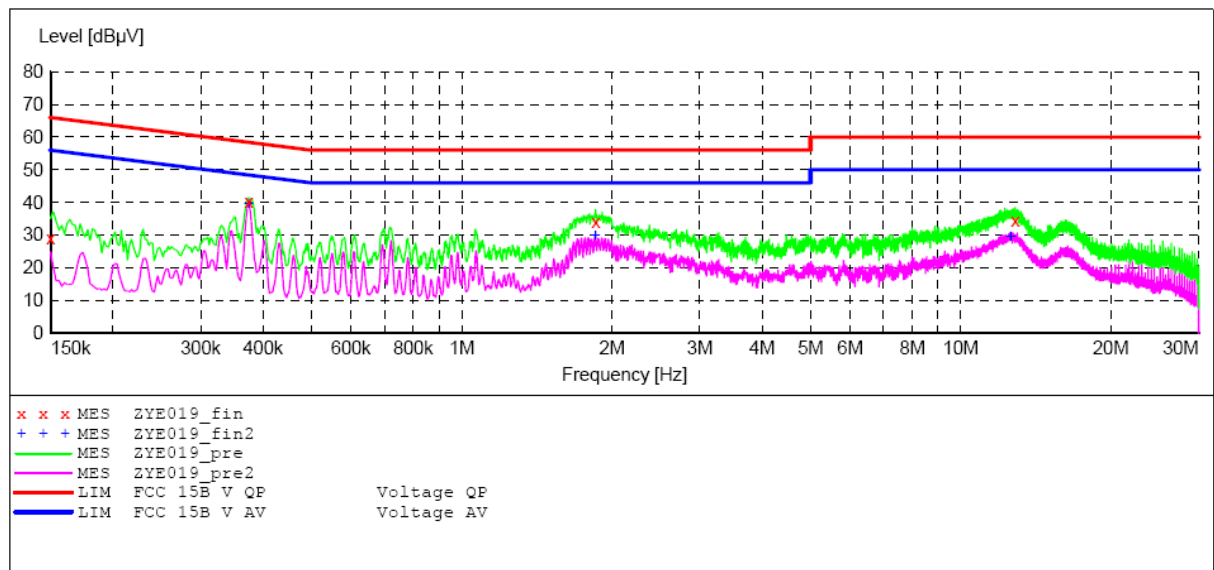
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Flicks Portable Projector M/N: BK01DW45A*
 Manufacturer: Dashbon, Inc.
 Operating Condition: BT OPERATION
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.: ATE20151790
 Start of Test: 2015-8-1 / 9:29:09

SCAN TABLE: "V 150K-30MHZ fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "ZYE019_fin"

2015-8-1 9:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.374000	40.10	11.2	58	18.3	QP	L1	GND
1.856000	34.10	11.7	56	21.9	QP	L1	GND
12.863000	34.40	11.9	60	25.6	QP	L1	GND

MEASUREMENT RESULT: "ZYE019_fin2"

2015-8-1 9:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.374000	39.30	11.2	48	9.1	AV	L1	GND
1.852000	29.70	11.7	46	16.3	AV	L1	GND
12.597500	29.30	11.9	50	20.7	AV	L1	GND

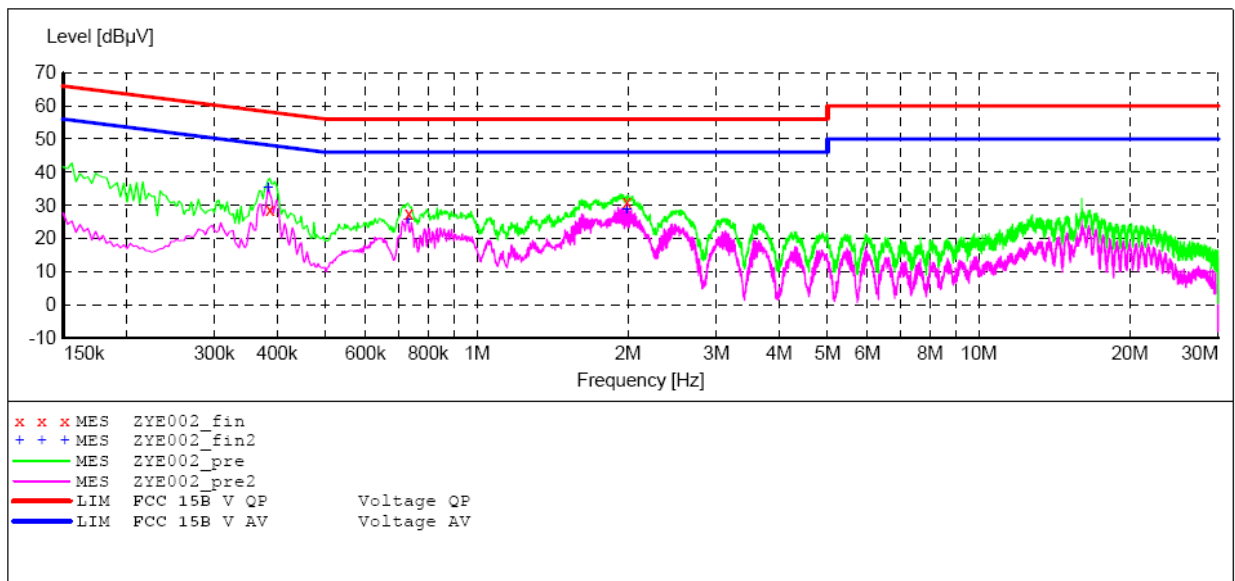
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Flicks Portable Projector M/N: BK01DW45A*
 Manufacturer: Dashbon, Inc.
 Operating Condition: BT OPERATION
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 240V/60Hz
 Comment: Report No.: ATE20151790
 Start of Test: 2015-7-30 / 15:41:56

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "ZYE002_fin"

2015-7-30 15:43

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.387000	38.50	11.3	58	19.6	QP	L1	GND
0.732000	27.40	11.5	56	28.6	QP	L1	GND
1.989000	31.00	11.7	56	25.0	QP	L1	GND

MEASUREMENT RESULT: "ZYE002_fin2"

2015-7-30 15:43

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.384000	35.40	11.2	48	12.8	AV	L1	GND
0.729000	25.70	11.5	46	20.3	AV	L1	GND
1.989000	28.80	11.7	46	17.2	AV	L1	GND

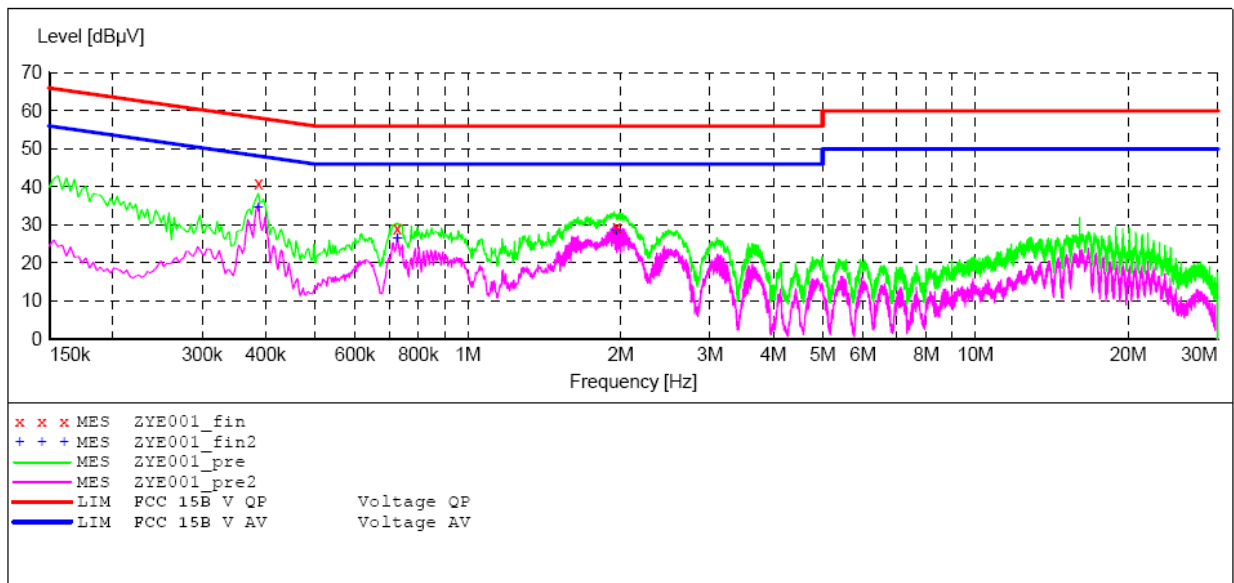
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Flicks Portable Projector M/N:BK01DW45A*
 Manufacturer: Dashbon, Inc.
 Operating Condition: BT OPERATION
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 240V/60Hz
 Comment: Report No.:ATE20151790
 Start of Test: 2015-7-30 / 15:39:11

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "ZYE001_fin"

2015-7-30 15:40

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.387000	41.00	11.3	58	17.1	QP	N	GND
0.726000	29.20	11.5	56	26.8	QP	N	GND
1.965000	29.30	11.7	56	26.7	QP	N	GND

MEASUREMENT RESULT: "ZYE001_fin2"

2015-7-30 15:40

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.387000	34.50	11.3	48	13.6	AV	N	GND
0.726000	26.50	11.5	46	19.5	AV	N	GND
1.962000	28.50	11.7	46	17.5	AV	N	GND

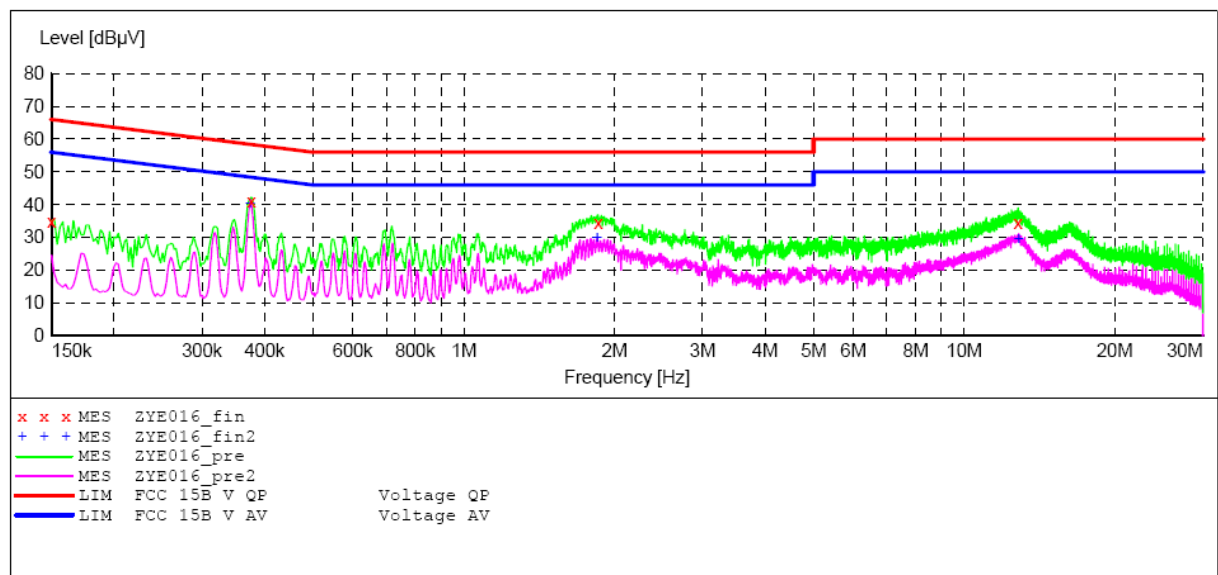
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Flicks Portable Projector M/N: BK02DW45A*
 Manufacturer: Dashbon, Inc.
 Operating Condition: BT OPERATION
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.: ATE20151790
 Start of Test: 2015-8-1 / 9:22:16

SCAN TABLE: "V 150K-30MHZ fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN(ESH3-Z5)
Average						



MEASUREMENT RESULT: "ZYE016_fin"

2015-8-1 9:23

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.376000	41.10	11.2	58	17.3	QP	L1	GND
1.854000	34.30	11.7	56	21.7	QP	L1	GND
12.804500	34.50	11.9	60	25.5	QP	L1	GND

MEASUREMENT RESULT: "ZYE016_fin2"

2015-8-1 9:23

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.374000	40.20	11.2	48	8.2	AV	L1	GND
1.848000	29.80	11.7	46	16.2	AV	L1	GND
12.854000	29.40	11.9	50	20.6	AV	L1	GND

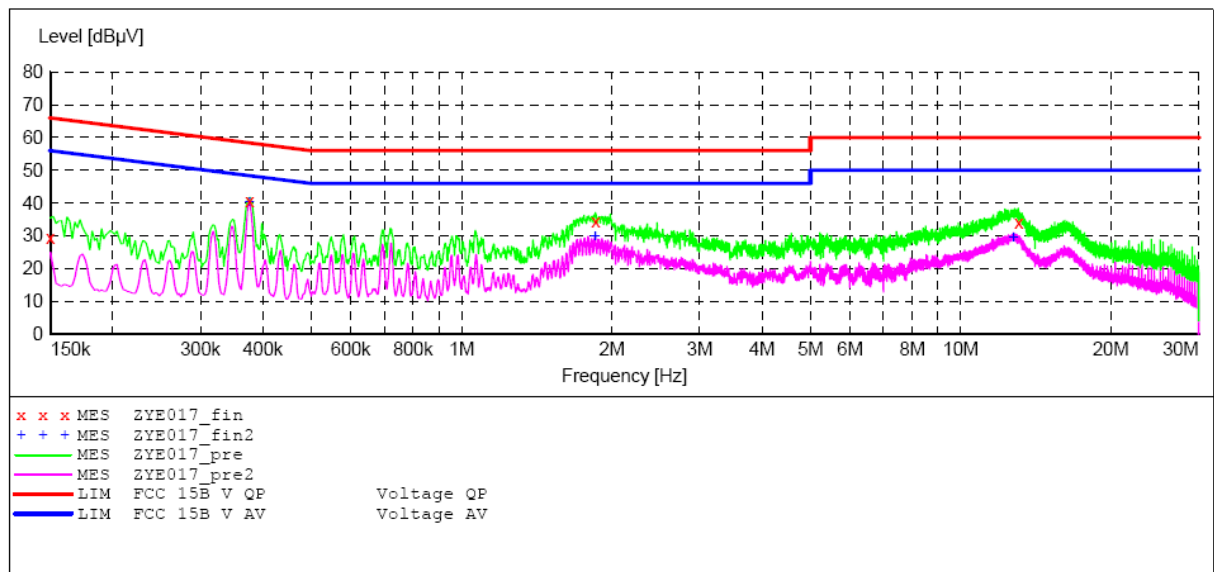
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Flicks Portable Projector M/N: BK02DW45A*
 Manufacturer: Dashbon, Inc.
 Operating Condition: BT OPERATION
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.: ATE20151790
 Start of Test: 2015-8-1 / 9:24:41

SCAN TABLE: "V 150K-30MHz fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN (ESH3-Z5)
Average						



MEASUREMENT RESULT: "ZYE017_fin"

2015-8-1 9:26

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.376000	40.80	11.2	58	17.6	QP	N	GND
1.856000	34.50	11.7	56	21.5	QP	N	GND
13.056500	33.90	11.9	60	26.1	QP	N	GND

MEASUREMENT RESULT: "ZYE017_fin2"

2015-8-1 9:26

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.376000	40.30	11.2	48	8.1	AV	N	GND
1.852000	29.80	11.7	46	16.2	AV	N	GND
12.768500	29.50	11.9	50	20.5	AV	N	GND

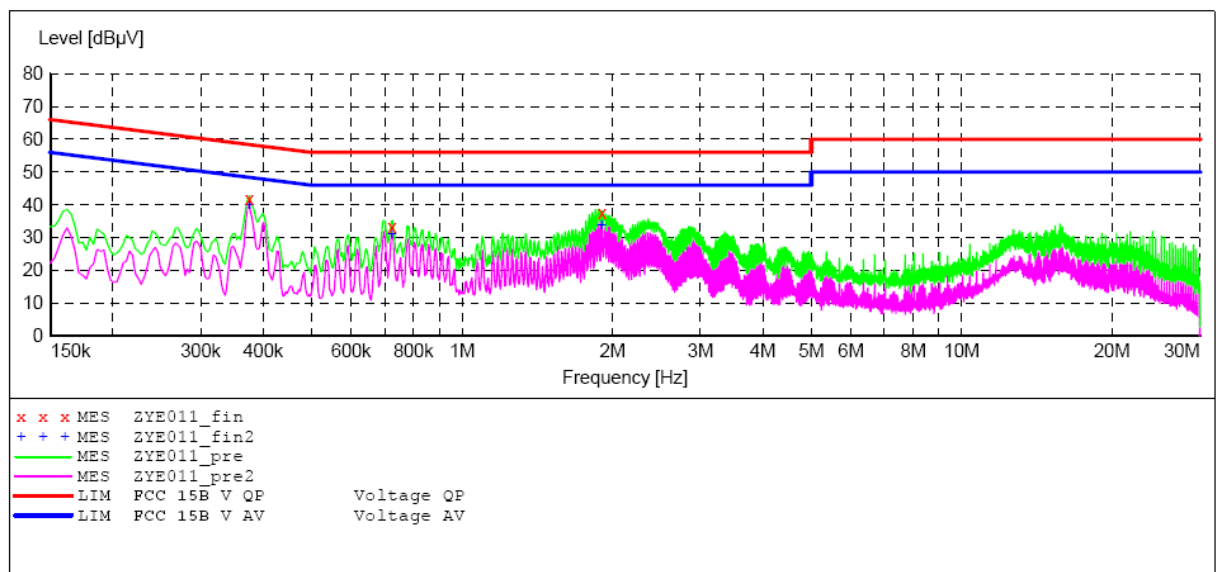
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Flicks Portable Projector M/N: BK02DW45A*
 Manufacturer: Dashbon, Inc.
 Operating Condition: BT OPERATION
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 240V/60Hz
 Comment: Report No.: ATE20151790
 Start of Test: 2015-8-1 / 9:06:19

SCAN TABLE: "V 150K-30MHZ fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN(ESH3-Z5)
Average						



MEASUREMENT RESULT: "ZYE011_fin"

2015-8-1 9:08

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.375000	41.60	11.2	58	16.8	QP	L1	GND
0.723000	33.30	11.5	56	22.7	QP	L1	GND
1.905000	37.40	11.7	56	18.6	QP	L1	GND

MEASUREMENT RESULT: "ZYE011_fin2"

2015-8-1 9:08

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.375000	39.70	11.2	48	8.7	AV	L1	GND
0.723000	30.90	11.5	46	15.1	AV	L1	GND
1.902000	33.50	11.7	46	12.5	AV	L1	GND

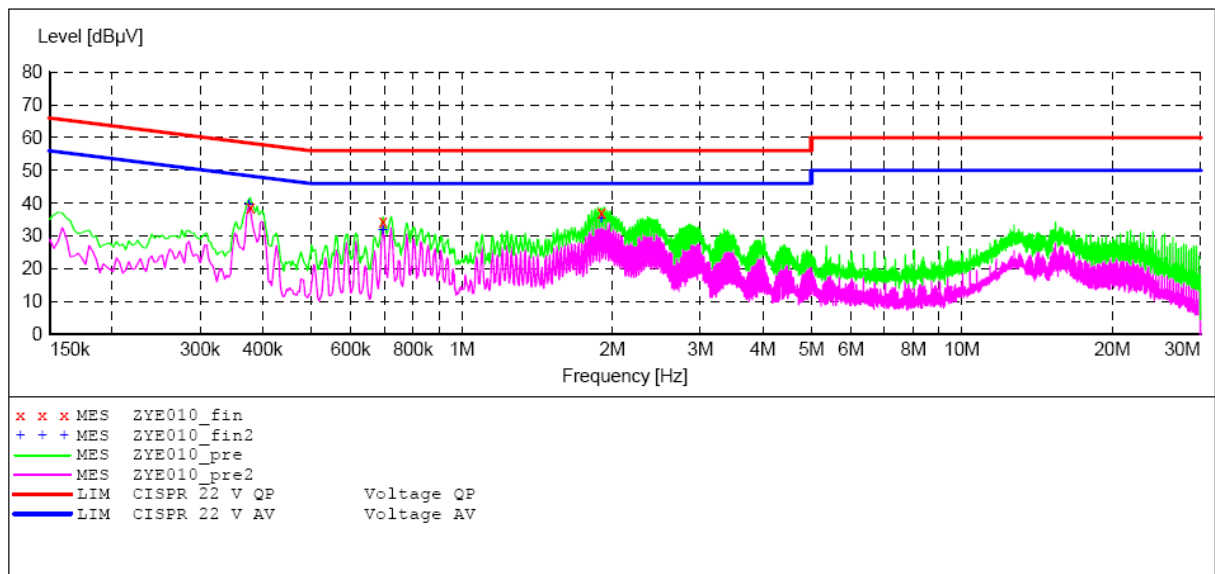
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Flicks Portable Projector M/N: BK02DW45A*
 Manufacturer: Dashbon, Inc.
 Operating Condition: BT OPERATION
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 240V/60Hz
 Comment: Report No.: ATE20151790
 Start of Test: 2015-8-1 / 9:03:52

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "ZYE010_fin"

2015-8-1 9:05

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.378000	38.80	11.2	58	19.5	QP	N	GND
0.696000	34.30	11.5	56	21.7	QP	N	GND
1.902000	37.30	11.7	56	18.7	QP	N	GND

MEASUREMENT RESULT: "ZYE010_fin2"

2015-8-1 9:05

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.375000	39.40	11.2	48	9.0	AV	N	GND
0.696000	31.80	11.5	46	14.2	AV	N	GND
1.902000	35.00	11.7	46	11.0	AV	N	GND

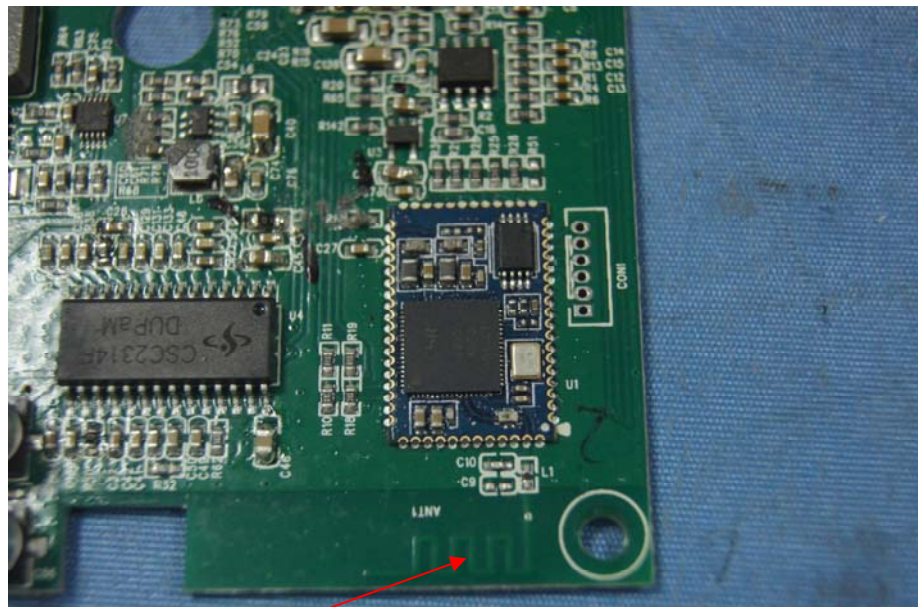
13.ANTENNA REQUIREMENT

13.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna