



Report No : 15-03-QAC-157

RoHS Assessment Report

for Directive 2011/65/EU on Restriction of The Use of Certain Hazardous Substance (RoHS) in Electrical and Electronic Equipment.

Report No : 15-03-QAC-157

Date of Initial Issue: August 7, 2014

Date of Issue: April 2, 2015

Applicant : LITE-ON Technology Corp.

Address : 21, Lane 439, Sec. 2, Chung-Shan Road, Chung Ho, New Taipei City 23558, Taiwan, R.O.C.

Product/Sample : Variable Frequency Drive

Style/Type : EVO6000(2)

Conclusion : This is to certify product(s) are in compliance with Directive 2011/65/EU on the Restriction of The Use of Certain Hazardous Substance (RoHS) in Electrical and Electronic Equipment.

Testing Laboratory Name : Electronics Testing Center, Taiwan.

Testing Laboratory Address : No. 8, Lane 29, Wenming Rd., Guishan Dist. Taoyuan City 33383, Taiwan, R.O.C.

**Testing Laboratory Approved by :
(Signature)**

Assessment Result : **Complied with Directive 2011/65/EU**

1. Product Information
 - A. Sample Description
 - B. Sample Photo
 - C. Test Results
 - D. Test Methods
2. RoHS Exemptions
3. Commission Decision (2011/65/EU)

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Production Information

A. Product Description

Product/Sample : Variable Frequency Drive

Style/Type : EVO6000(2)

B. Product Photo





Fig.1

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C.Test Results

Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
15-03-QAC-157 -1	Pb: 11.7 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 16.6	N/T	Box	
15-03-QAC-157 -2	Pb: 8.5 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 36.1	N/T	Paper	
15-03-QAC-157 -3	Pb: 3.6 Cd: 0.9 Hg: 0.0 Cr: 0.0 Br: 1.4	N/T	Paper	
15-03-QAC-157 -4	Pb: 0.4 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 0.0	N/T	Plastic	
15-03-QAC-157 -5	Pb: 59657.0 Cd: 600.0 Hg: 1.0 Cr: 2225.0 Br: 0.0	Pb : 424.3 Cd : N.D.(<2) Cr6+ : N.D.(<2)	Metal	
15-03-QAC-157 -6	Pb: 0.0 Cd: 1.5 Hg: 0.6 Cr: 0.0 Br: 0.4	N/T	Plastic	

Note:

1. MDL : Method Detection Limitation.
2. N.D. : Not Detected < MDL
3. ppm : = mg/kg (0.1% = 1000 ppm)

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5. < : Less Than

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C.Test Results

Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
15-03-QAC-157 -7	Pb: 0.7 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 0.0	N/T	Sticker	
15-03-QAC-157 -8	Pb: 1.1 Cd: 3.2 Hg: 0.0 Cr: 0.0 Br: 3.4	N/T	Label	
15-03-QAC-157 -9	Pb: 0.0 Cd: 25.5 Hg: 0.0 Cr: 0.0 Br: 120744.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Plastic	
15-03-QAC-157 -10	Pb: 0.0 Cd: 8.0 Hg: 0.0 Cr: 3753.0 Br: 0.0	Cr6+ : N.D. (<2)	Screw	
14-07-QAC-149 -5	Pb: 8.5 Cd: 0.0 Hg: 0.0 Cr: 1.4 Br: 142143.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Plastic	
14-07-QAC-149 -6	Pb: 53.0 Cd: 1.0 Hg: 0.0 Cr: 0.0 Br: 32.0	N/T	Metal	

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C.Test Results

Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
14-07-QAC-149 -7	Pb: 51.0 Cd: 2.0 Hg: 0.0 Cr: 180107.0 Br: 40.0	Cr6+ : N.D. (<2)	Metal	
14-07-QAC-149 -9	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 8.4	N/T	Plastic	
14-07-QAC-149 -10	Pb: 12.2 Cd: 7.8 Hg: 0.0 Cr: 0.8 Br: 3.7	N/T	Wire	
14-07-QAC-149 -11	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 47824.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Wire	
14-07-QAC-149 -12	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 41120.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Wire	
14-07-QAC-149 -15	Pb: 87.0 Cd: 0.0 Hg: 0.0 Cr: 45.0 Br: 0.0	N/T	Wire	

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Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
14-07-QAC-149 -17	Pb: 0.0 Cd: 4.6 Hg: 0.0 Cr: 0.0 Br: 108756.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Plastic	
14-07-QAC-149 -18	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 6.2	N/T	Label	
14-07-QAC-149 -19	Pb: 0.0 Cd: 8.0 Hg: 0.0 Cr: 617.0 Br: 0.0	N/T	Metal	
14-07-QAC-149 -20	Pb: 34.0 Cd: 2.0 Hg: 0.0 Cr: 102.0 Br: 0.0	N/T	Magnet	
14-07-QAC-149 -21	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 332.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Wire	
14-07-QAC-149 -22	Pb: 110.0 Cd: 9.0 Hg: 49.0 Cr: 160954.0 Br: 0.0	Cr6+ : N.D. (<2)	Metal	




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Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
14-07-QAC-149 -23	----	Pb : 5.9 Cd : N.D.(<2) Hg : N.D.(<2) Cr6+ : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	PCB	
14-07-QAC-149 -42	Pb: 78.0 Cd: 0.0 Hg: 0.0 Cr: 847.0 Br: 28.0	Cr6+ : N.D. (<2)	Screw	
14-07-QAC-149 -44	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 542.0 Br: 0.0	N/T	Screw	

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C.Test Results

PCB Sample Photo



Fig. 2a PCB-1 (Front view)



Fig. 2b PCB-1 (Back view)

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C.Test Results

Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
15-03-QAC-157 -11	----	Pb : 131.7 Cd : N.D.(<2) Hg : N.D.(<2) Cr6+ : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	PCB	
15-03-QAC-157 -12	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 539.4	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Electronic component	
15-03-QAC-157 -13	Pb: 10.8 Cd: 0.0 Hg: 0.8 Cr: 42.3 Br: 260.0	N/T	Plastic	
15-03-QAC-157 -14	Pb: 2722.0 Cd: 0.0 Hg: 0.0 Cr: 169.0 Br: 0.0	Pb : RoHs Exemptions 6(c)	Metal	
15-03-QAC-157 -15	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 243520.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Plastic	
14-07-QAC-149 -51	Pb: 1.1 Cd: 0.0 Hg: 0.0 Cr: 0.3 Br: 3.1	N/T	Plastic	

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Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
14-07-QAC-149 -52	Pb: 2157.0 Cd: 1.0 Hg: 0.0 Cr: 8.0 Br: 0.0	Pb : RoHs Exemptions 6(c)	Metal	
14-07-QAC-149 -53	Pb: 266.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 91.0	N/T	Metal	
14-07-QAC-149 -54	Pb: 28.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 1.0	N/T	Screw	
14-07-QAC-149 -55	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 26.0 Br: 20.0	N/T	Metal	
14-07-QAC-149 -56	Pb: 0.0 Cd: 5.4 Hg: 0.0 Cr: 0.0 Br: 86654.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Plastic	
14-07-QAC-149 -57	Pb: 0.0 Cd: 37.0 Hg: 3.0 Cr: 138.0 Br: 63.0	N/T	Metal	

Note:

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C.Test Results

Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
14-07-QAC-149 -59	Pb: 15.7 Cd: 0.0 Hg: 0.0 Cr: 0.4 Br: 32.6	N/T	Plastic	
14-07-QAC-149 -60	Pb: 41.0 Cd: 4.0 Hg: 9.0 Cr: 170293.0 Br: 19.0	Cr6+ : N.D. (<2)	Metal	
14-07-QAC-149 -61	Pb: 0.0 Cd: 15.0 Hg: 0.0 Cr: 0.0 Br: 110494.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Electronic Component	
14-07-QAC-149 -62	Pb: 0.0 Cd: 0.0 Hg: 0.1 Cr: 0.0 Br: 0.0	N/T	Electronic Component	
14-07-QAC-149 -63	Pb: 1.9 Cd: 0.0 Hg: 0.0 Cr: 95.6 Br: 3.7	N/T	Electronic Component	
14-07-QAC-149 -64	Pb: 4.3 Cd: 0.0 Hg: 0.0 Cr: 6.1 Br: 211.4	N/T	Plastic	




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C.Test Results

Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
14-07-QAC-149 -67	Pb: 0.8 Cd: 8.2 Hg: 0.0 Cr: 0.0 Br: 7.6	N/T	Electronic Component	
14-07-QAC-149 -68	----	Pb : 13.5 Cd : N.D.(<2) Hg : N.D.(<2) Cr6+ : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	Electronic Components	
14-07-QAC-149 -69	----	Pb : 71.4 Cd : N.D.(<2) Hg : N.D.(<2) Cr6+ : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	Electronic Components	

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C.Test Results

PCB Sample Photo




Fig. 3a PCB-2 (Front view)



Fig. 3b PCB-2 (Back view)

C.Test Results

Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
15-03-QAC-157 -16	Pb: 7.4 Cd: 0.0 Hg: 0.0 Cr: 1.1 Br: 0.0	N/T	Plastic	
15-03-QAC-157 -17	Pb: 0.0 Cd: 117.8 Hg: 0.0 Cr: 0.0 Br: 347948.0	Cd : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	Plastic	
15-03-QAC-157 -18	Pb: 0.0 Cd: 5.0 Hg: 0.0 Cr: 0.0 Br: 63.0	N/T	Metal	
15-03-QAC-157 -19	Pb: 0.0 Cd: 25.0 Hg: 0.0 Cr: 0.0 Br: 15.0	N/T	Magnet	
15-03-QAC-157 -20	Pb: 0.0 Cd: 5.0 Hg: 0.0 Cr: 0.0 Br: 0.0	N/T	Wire	
15-03-QAC-157 -21	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 60.9 Br: 113325.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Plastic	

Note:

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15-03-QAC-157 -22	Pb: 3022.0 Cd: 0.0 Hg: 1965.0 Cr: 8321.0 Br: 1416.0	Pb : 117.5 Hg : N.D.(<2) Cr6+ : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	Electronic component	
15-03-QAC-157 -23	Pb: 0.0 Cd: 5.4 Hg: 0.0 Cr: 5.6 Br: 250643.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Electronic component	
15-03-QAC-157 -24	Pb: 2.5 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 12828.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Electronic component	
15-03-QAC-157 -25	----	Pb : 10.2 Cd : N.D.(<2) Hg : N.D.(<2) Cr6+ : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	PCB	
15-03-QAC-157 -26	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 0.0 Br: 2.7	N/T	Plastic	
15-03-QAC-157 -27	Pb: 133.5 Cd: 12.6 Hg: 0.0 Cr: 0.0 Br: 10067.3	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Electronic component	

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C.Test Results

Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
14-07-QAC-149 -72	Pb: 0.0 Cd: 8.0 Hg: 0.0 Cr: 7461.0 Br: 0.0	Cr6+ : N.D. (<2)	Screw	
14-07-QAC-149 -73	Pb: 17.0 Cd: 1.0 Hg: 0.0 Cr: 1057.0 Br: 25.0	Cr6+ : N.D. (<2)	Screw	
14-07-QAC-149 -74	Pb: 0.0 Cd: 0.0 Hg: 0.0 Cr: 814.0 Br: 0.0	Cr6+ : N.D. (<2)	Metal	
14-07-QAC-149 -75	Pb: 95.0 Cd: 4.0 Hg: 0.0 Cr: 1235.0 Br: 0.0	Cr6+ : N.D. (<2)	Nut	
14-07-QAC-149 -78	Pb: 0.0 Cd: 0.0 Hg: 1.6 Cr: 0.0 Br: 0.0	N/T	Plastic	
14-07-QAC-149 -79	Pb: 0.0 Cd: 2.6 Hg: 0.7 Cr: 0.0 Br: 0.0	N/T	Plastic	

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14-07-QAC-149 -81	Pb: 3.3 Cd: 0.0 Hg: 2.6 Cr: 0.0 Br: 1.8	N/T	Electronic Component	
14-07-QAC-149 -83	Pb: 0.0 Cd: 14.3 Hg: 0.0 Cr: 2.7 Br: 71762.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Electronic Component	
14-07-QAC-149 -85	Pb: 0.0 Cd: 5.9 Hg: 0.0 Cr: 5.8 Br: 86356.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Electronic Component	
14-07-QAC-149 -86	Pb: 2.5 Cd: 0.5 Hg: 0.0 Cr: 3.1 Br: 19.6	N/T	Electronic Component	
14-07-QAC-149 -87	Pb: 5.3 Cd: 98.1 Hg: 0.0 Cr: 0.0 Br: 0.0	Cd :N.D. (<2)	Electronic Component	
14-07-QAC-149 -90	Pb: 0.0 Cd: 14.1 Hg: 0.0 Cr: 0.0 Br: 20085.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Electronic Component	

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Tested Part No.	XRF Screening (ppm)	Chemical Test (ppm)	Tested Part Description	Tested Part Photo
14-07-QAC-149 -91	----	Pb : RoHs Exemptions 15 Cd : N.D.(<2) Hg : N.D.(<2) Cr6+ : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	Electronic Components	
14-07-QAC-149 -92	----	Pb : 424.7 Cd : N.D.(<2) Hg : N.D.(<2) Cr6+ : N.D.(<2) PBBs : N.D.(<5) PBDEs : N.D.(<5)	Electronic Components	
14-07-QAC-149 -97	Pb: 0.0 Cd: 19.7 Hg: 0.0 Cr: 2.8 Br: 136398.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Tape	
14-07-QAC-149 -98	Pb: 0.0 Cd: 0.0 Hg: 113.0 Cr: 165.0 Br: 679.0	PBBs : N.D. (<5) PBDEs : N.D.(<5)	Magnet	
14-07-QAC-149 -99	Pb: 39.0 Cd: 0.0 Hg: 0.0 Cr: 50.0 Br: 70.0	N/T	Wire	
14-07-QAC-149 -100	Pb: 6.2 Cd: 1.1 Hg: 0.0 Cr: 0.0 Br: 9.4	N/T	Plastic	

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D.Test Methods

Analytical Substance	Equipment	Methods	MDL (ppm)	XRF Screening Action Limit * (ppm)
Pb	ICP-OES	IEC 62321-5 : 2013	2	700
Cd	ICP-OES	IEC 62321-5 : 2013	2	70
Hg	ICP-OES	IEC 62321-4 : 2013	2	700
Cr ⁺⁶	UV-VIS	IEC 62321 Ed.1:2008	2	700 (Cr)
PBBs	GC-MS	IEC 62321 Ed.1:2008	5	300 (Br)
PBDEs	GC-MS	IEC 62321 Ed.1:2008	5	300 (Br)

* Reference : IEC 62321 Ed.1:2008 / IEC 62321-2 / IEC 62321-3-1 / IEC 62321-3-2 / IEC 62321-4 / IEC 62321-5

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