



ECMA/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

## Annex B2 - Product environmental attributes Notebooks and Tablets

The declaration may be published only when all rows and/or fields marked with \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

| Brand *                              | Lenovo   | Logo   |
|--------------------------------------|--|--------|
| Company name *                       | Lenovo   | _      |
| Contact information * e-mail address | Lenovo Global Environmental Affairs Alvin L Carter alcarter@lenovo.com | Lenovo |
| Internet site *                      | http://www.lenovo.com/social_responsibility/us/en/environment          | .html  |
| Additional information               | The latest version of this document can be found at:                   |        |
|                                      | http://www.lenovo.com/ecodeclaration                                   |        |

| The company declares (based on product specification or test results based obtained from sample testing), that the product |  |  |  |  |
|--|--|--|--|--|
| conforms to the statemer   | nts given in this declaration.                     |  |  |  |
| Type of product *  | Notebook   |  |  |  |
| Commercial name *  | Lenovo ideapad 720S-13/720S-13 Touch               |  |  |  |
| Model number *   | 81A8, 81AE, 81BV, 81BX                             |  |  |  |
| Issue date *   | 2017-7-28  |  |  |  |
| Intended market *  | Global Europe Asia, Pacific & Japan Americas Other |  |  |  |
| Additional information   |  |  |  |  |

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

#### About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products

| Model number * |  | 81A8, 81AE, 81BV, 81BX   | Logo                             | Lenovo.     |                        |      |  |
|----------------|--|--|----------------------------------|-------------|------------------------|------|--|
| Issue dat      |  |  | Lenc                             |             | <b>J</b> <sub>TM</sub> |      |  |
| Product        | environ  | mental attributes - Legal requirements   |                                  | Requiremer  |                        |      |  |
| Item           |  | <u> </u>   |                                  | Yes         | No                     | n.a. |  |
| P1             | Hazardo  | us substances and preparations   |                                  |             |                        |      |  |
| P1.1*          |  | do comply with current European RoHS Directive. (See legal reference and NOTE  | E B1)                            | $\boxtimes$ |                        |      |  |
| P1.2*          |  | do not contain Asbestos (see legal reference).<br>nt: Legal reference has no maximum concentration value.  |                                  |             |                        |      |  |
| P1.3*          | Products<br>hydrobro<br>trichloroe<br>concentr   |  |                                  |             |                        |      |  |
| P1.4*          | Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).  |  |                                  |             |                        |      |  |
| P1.5*          | Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).                   |  |                                  |             |                        |      |  |
| P1.6*          | Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week (see legal reference).  Comment: Max limit in legal reference when tested according to EN1811:2011-5. |  |                                  |             |                        |      |  |
| P1.7*          | REACH  | Article 33 information about substances in articles is available at (add URL or mail w.lenovo.com/social_responsibility/us/en/environment.html                         | contact):                        |             |                        |      |  |
| P2             | Batterie   | S  |                                  |             |                        |      |  |
| P2.1*          |  | duct contains a battery or an accumulator, the battery/accumulator is labeled with<br>Information on proper disposal is provided in user manual. (See legal reference) | the disposal                     | $\boxtimes$ |                        |      |  |
| P2.2*          |  | or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadn  | nium. (See lega                  | al 🔀        |                        |      |  |
| P2.3*          |  | and accumulators are readily removable. (See legal reference)  |                                  | $\boxtimes$ |                        |      |  |
| P3             | Conforn  | nity verification & Eco design (ErP)   |                                  |             |                        |      |  |
| P3.1*          | The prod   | luct is CE-marked to show conformance with applicable legal requirements (see leg  | gal reference).<br>-mail addres: | s):         |                        |      |  |
| P3.2*          |  | luct complies with the Eco design requirements for energy-related products, al reference).   |                                  |             |                        |      |  |
|                | -  | d information is; given in item P15 or added to this document, available at (add URL):   |                                  |             |                        |      |  |
|                | http://v   | www.lenovo.com/social_responsibility/us/en/datasheets_notebooks/   |                                  |             |                        |      |  |
| P5             |  | packaging  |                                  |             |                        |      |  |
| P5.1*          | Packagir   | ng and packaging components do not contain more than 0,01% lead, mercur<br>ant chromium by weight of these together.   | y, cadmium ai                    | nd 🔀        |                        |      |  |
| P5.2*          | The pack   | kaging materials are marked with abbreviations and numbers indicating the nature e legal reference).   | of the material(                 | (s)         |                        |      |  |
| P5.3*          | The pro  | duct packaging material is free from ozone depleting substances as specified (see legal reference).  nt: Legal reference has no maximum concentration values.          | in the Montre                    | eal 🔀       |                        |      |  |
| D6             |  | nt information   |                                  |             |                        |      |  |

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Information for recyclers/treatment facilities is available (see legal reference).

P6.1\*

| Model number * | 81A8, 81AE, 81BV, 81BX | Logo | П | opovo | _ |
|----------------|------------------------|------|---|-------|---|
| Issue date *   | 2017-7-26              |      | - |       |   |

| Product environmental attributes - Market requirements (See General NOTE GN below) |   |             |           |          |  |  |  |
|--|---|-------------|-----------|----------|--|--|--|
|  |   | Require     |           | met      |  |  |  |
| Item   | *=mandatory to fill in. Additional information regarding each item may be found under P14.  | Yes         | No        | n.a.     |  |  |  |
| <b>P7</b> P7.1*  | Design, Disassembly, recycling  |             | _         |          |  |  |  |
|  | Parts that have to be treated separately are easily separable   |             |           |          |  |  |  |
| P7.2*<br>P7.3*   | Plastic materials in covers/housing have no surface coating.  |             |           |          |  |  |  |
|  | Plastic parts > 100 g consist of one material or of easily separable materials.   |             | Н.        |          |  |  |  |
| P7.4*  | Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.   |             | Ц.        | <u> </u> |  |  |  |
| P7.5   | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.  |             | <u>Ц</u>  |          |  |  |  |
| P7.6*  | Labels are easily separable. (This requirement does not apply to safety/regulatory labels).   |             | Ш         | Ш        |  |  |  |
| P7.7*  | Product lifetime  Upgrading can be done e.g. with processor, memory, cards or drives  |             |           |          |  |  |  |
| P7.8*  | Upgrading can be done e.g. with processor, memory, cards or drives  Upgrading can be done using commonly available tools  |             | -         | -        |  |  |  |
| P7.8   |   |             |           |          |  |  |  |
|  | Spare parts are available after end of production for: 5 years  |             |           |          |  |  |  |
| P7.10  | Service is available after end of production for: 5 years   |             |           |          |  |  |  |
| P7.11*   | Material and substance requirements  Product cover/housing material type (e.g. plastics, metal, aluminum):  |             |           |          |  |  |  |
| F1.11  | Material type: >PC+ABS-FR(40)< Material type: >PC+ABS-TD15FR(40)< Material type:  |             |           |          |  |  |  |
| P7.12  | Insulation materials of external electrical cables are PVC free.  |             | $\square$ |          |  |  |  |
| P7.13  | Insulation materials of internal electrical cables are PVC free.  |             |           |          |  |  |  |
| P7.14  | External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1%   | 5 🔀         |           |          |  |  |  |
|  | weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and   |             | ш         | ш        |  |  |  |
|  | polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts   | 3           |           |          |  |  |  |
| P7.15  | containing more than 25% post-consumer recycled content.  |             |           |          |  |  |  |
| P7.15  | Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)   | /           |           | ш        |  |  |  |
| P7.16  | Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:   |             |           |          |  |  |  |
|  | Marking: FR(40)   |             | ш         | Ш        |  |  |  |
| P7.17  | Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components):  |             |           |          |  |  |  |
|  | TBBPA (additive), TBBPA (reactive) (See NOTE B3), Other: <b>Brominated Epoxy Resin</b> , CAS #:   | $\boxtimes$ |           |          |  |  |  |
|  | 26265—08—7  |             |           |          |  |  |  |
|  | Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g   | $\boxtimes$ |           |          |  |  |  |
| P7.18  | according ISO 1043-4: <i>FR(16)</i> Alt. 1  |             |           |          |  |  |  |
| 1 7.10   | Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in  | n 🔀         |           |          |  |  |  |
|  | concentrations above 0.1%:  |             |           |          |  |  |  |
|  | Comment: No legal limits exist, this is a market requirement.   |             |           |          |  |  |  |
|  | 1. Chemical name:, CAS #: confidential  |             |           |          |  |  |  |
|  | 2. Chemical name: CAS #: <i>confidential</i> Alt. 2   |             |           |          |  |  |  |
|  | Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:   |             |           |          |  |  |  |
|  |   |             |           |          |  |  |  |
| <b>5</b> - 40  |   |             | <u>Ц</u>  |          |  |  |  |
| P7.19  | In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; <i>Confidential</i> and Hazard statements: <i>Confidential</i>  | $\boxtimes$ |           |          |  |  |  |
|  | The source(s) for these classifications is/are found at (add URL(s)): <b>European Council Directive</b>   |             |           |          |  |  |  |
|  | 67/548/EEC , (See note B5)  |             |           |          |  |  |  |
| P7.20*   | Postconsumer recycled plastic material content is used in the product (See Note B6):  | $\boxtimes$ |           |          |  |  |  |
|  | INVESTIGATION OF THE PROPERTY |             | _         | _        |  |  |  |
|  | If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as   |             |           |          |  |  |  |
|  | a percentage of total plastic by weight) is <b>0.2%</b> .   |             |           |          |  |  |  |
|  | or  |             |           |          |  |  |  |
|  | b) The weight of recycled material is g.  |             |           |          |  |  |  |

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

| Model number   | r * 8148 81       | AE, 81BV, 81BX                                   |                            |                                   | Logo   |  |             |
|--|-------------------|--|----------------------------|-----------------------------------|--|--|-------------|
| Issue date *   | 2017-7-2          |  |                            |                                   |  | Lenov  | <b>/O</b>   |
| Product env  | ironmental at     | tributes - Market r                              | equirements (cont          | inued)                            |  | Requirem   | ent met     |
| Item   |                   |  | · ·                        | ,                                 |  | Yes No   |             |
|  |                   | stance requirements                              |                            |                                   |  |  |             |
| P7.21* Bio   | based plastic m   | aterial content is used                          | d in the product (See N    | IOTE B7):                         |  |  |             |
| If Y<br>a)<br>or   | Of total plastic  | c parts' weight > 25 g<br>by weight) is 0        | %.                         | rered;<br>material content (calcu | ılated as a percen   | tage   |             |
| b)   |                   | the biobased plastic                             |                            |                                   |  |  |             |
|  |                   | ree from mercury, i.e.<br>specify: Number of lar | less than 0,1 mg/lamp      | num mercury content pe            | er lamp: mg  |  |             |
|  | tteries           | <u> </u>   |                            | iam more any controller po        |  |  |             |
| P8.1* Ba   | ttery chemical c  | omposition: LI-ION                               | 1                          |                                   |  |  |             |
|  |                   | tion (See NOTE B8)                               |                            |                                   |  |  |             |
|  | r the product the |  | ls or energy consumpti     |                                   | Defenses/Otens   | dand fan amana   |             |
| Energy mode *  |                   | Power level at<br>100 V AC                       | Power level at<br>115 V AC | Power level at<br>230 V AC        | Reference/Stand<br>modes and test  |  | Jy          |
| Peak (On-max   | )                 | 45 W   | 45 W                       | 45 W                              | Full load  | metrod   |             |
| Category I2  | 2                 |  |                            |                                   |  |  |             |
| Short Idle Stat<br>Enabled   | te - WOL          | 6.29 W   | 6.38 W                     | 6.45 W                            | Reference  |  |             |
| Long Idle Stat<br>Enabled  | e - WOL           | 2.37 W   | 2.41 W                     | 2.45 W                            | Reference  |  |             |
| Sleep (S3) - W   | OL Enabled        | 1.08 W   | 1.09 W                     | 1.13 W                            | Reference  |  |             |
| Sleep (S3) - W   |                   | 1.08 W   | 1.09 W                     | 1.13 W                            | Reference  |  |             |
| Off (S5) - WOL   |                   | <b>0.40</b> W                                    | 0.39 W                     | <b>0.41</b> W                     | Reference  |  |             |
| Off (S5) - WOL   | . Disabled        | <b>0.40</b> W                                    | 0.39 W                     | <b>0.41</b> W                     | Reference  |  |             |
| EPS No-load<br>(External power supply<br>wall outlet but disconned |                   | 0.024 W  | 0.027 W                    | 0.66 W                            |  |  |             |
| PTEC * Typical Energy  | Consumption       | W  | W                          | W                                 |  |  |             |
| ETEC * Annual Energy   | •                 | <b>22.79</b> kWh/year                            | 23.07 kWh/year             | 23.46 kWh/year                    | E <sub>TEC</sub> = (8760/100 + P <sub>sleep</sub> x 0.35 + P <sub>short_Idle</sub> x 0.30) | 00) x (P <sub>off</sub> x 0.25<br>P <sub>long_ldle</sub> x 0.10+ |             |
|  |                   |  |                            | p Mode(S3) - WOL Enable           |  | WOL Enabled  |             |
|  |                   |  | l Efficiency Marking Pr    | rotocol) * : VI                   |  |  |             |
|  | ion * : 3840*216  |  |                            |                                   |  |  |             |
|  | enter energy sa   | ve mode: 10 minutes                              |                            |                                   |  |  |             |
| P9.2* Info   | ormation about t  | the energy save functi                           | on is provided with the    | product.                          |  |  |             |
| P9.3 En  | ergy efficiency o | class (monitors only):                           |                            |                                   |  |  | $\boxtimes$ |
|  | nissions          |  |                            |                                   |  |  |             |
| N <sub>0</sub>   | ica amiccian -    | Doctored according to                            | 150 0206 (See NOTI         | = P01                             |  |  |             |

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

(only if not covered by ECMA-74)

3.2

4.2

NOTE B8 A Guidance document on Energy Efficiency is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

Mode description

HDD: Operating

Other

Declared A-weighted sound pressure level (dB)  $\overline{L_{p{
m Am}}}$ 

Declared A-weighted sound pressure level (dB)  $L_{p{\rm Am}}$ 

ECMA-74

HDD:Idle

Measured according to: ISO 7779

P10.1

Mode

Operation

Other mode

Other mode

Idle

NOTE B9 A Guidance document on Acoustic Noise is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

Statistical upper limit A-weighted sound power level,  $L_{WA,c}$  (B)

19.7 (operator position desktop – idle)

34.6 (operator position desktop – operating)

| Model n  | umber *   | 81A8, 81AE  | , 81BV, 81BX   |   |   |                            | Logo   | Leno                         | VO                |      |
|----------|---|---|--|---|---|----------------------------|--|------------------------------|-------------------|------|
| Issue da | ite *   | 2017-7-28   |  |   |   |                            |  | Leilu                        | VU                | тм   |
| Produc   | t environr  | nental attril                                     | outes - Market requiren  | nents (con                                | tinued)                                     |                            |  | Require                      | ment              | met  |
| Item     |   |   | -  |   |   |                            |  | Yes                          | No                | n.a. |
|          |   | nagnetic emi                                      |  |   |   |                            |  |                              |                   |      |
| P10.4    |   |   | ets the requirement for low f<br>pin AC adapter only)  | frequency ele                             | ectromagnetic field                         | ls of the foll             | owing voluntary                                |                              |                   |      |
| P12      |   |   | puting products  |   |   |                            |  |                              |                   |      |
| P12.1*   | -   | •   | ergonomic requirements of  |   | •   | •                          | gies.  |                              |                   |      |
| P12.2*   | The phys  | sical input dev                                   | vice meets the requirements  | s of ISO 999!                             | 5 and ISO 9241-41                           | 10.                        |  |                              |                   |      |
| P13      | Packagi   | ng and docu                                       | mentation  |   |   |                            |  |                              |                   |      |
| P13.1*   | Product   | packaging ma                                      | aterial type(s): CARTON<br>aterial type(s): EPE<br>aterial type(s): Gift BOX   | weight (kg)<br>weight (kg)<br>weight (kg) | ): <b>0.068</b>                             |                            |  |                              |                   |      |
| P13.2*   | Product   | plastic primar                                    | y packaging is free from PV  | /C.                                       |   |                            |  | $\boxtimes$                  |                   |      |
| P13.3*   | For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: 100 % |   |  |   |   |                            |  |                              |                   |      |
| P13.4*   |   | media for use<br>ic X, Paper                      | r and product documentatio   | n (tick box):                             |   |                            |  |                              |                   |      |
| P13.5    | Ùser and  | , ,   | e this item if paper documen<br>umentation on paper media  | ,   |   |                            |  | $\boxtimes$                  |                   |      |
|          | ,   | hlorine-free<br>al chlorine-fre                   | e  |   |   |                            |  | $\boxtimes$                  |                   |      |
|          | Process   | ed chlorine-fre                                   | ee   |   |   |                            |  |                              |                   |      |
| P14      | Volunta   | ry programs                                       |  |   |   |                            |  |                              |                   |      |
| P14.1    |   | <del>, , , , , , , , , , , , , , , , , , , </del> | e requirements of the follow   | ing voluntary                             | / program(s):                               |                            |  |                              |                   |      |
|          |   | Y STAR®<br>el: <b>EPEAT</b>                       | Criteria version: 6.1<br>Criteria version: 16  |   | Date: 2009/12/9                             |                            | category: <i>I2</i><br>category: <i>Silver</i> |                              |                   |      |
|          | Eco-labe  | el:   | Criteria version:  |   | Date:                                       | Product                    | category:                                      |                              |                   |      |
| P15      | Addition  | nal information                                   | on (See NOTE B10)  |   |   |                            | , , , , , , , , , , , , , , , , , , ,          |                              |                   |      |
| P9       |   |   | of specific configuration  |   |   |                            |  |                              |                   |      |
|          | informati<br>knowled  | on contained<br>ge available a<br>here is appro   | s no representations, guara<br>in this document. All inform<br>it the time of completion, an<br>eximate and provided for inf | nation providend supplier sh              | ed by supplier in th<br>nall have no obliga | is documer<br>tion to upda | nt is provided bas<br>ate such informat        | sed on suppi<br>ion. The inf | olier's<br>format | ion  |
| P9       |   |   | ified Notebooks & Tablet Co.gov/index.cfm?fuseaction=  |   |   |                            | code=CO  |                              |                   |      |

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B2

| Reference   | Declaration item       |
|---|------------------------|
| Directive 2011/65/EU (RoHS Directive) *  * Specific exemptions apply for certain products and applications.   | P1.1                   |
| Regulation (EC) 1907/2006(REACH, Annex XVII   | P1.2, P1.4, P1.6, P1.7 |
| Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)   | P1.3, P5.3             |
| Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002  | P1.5                   |
| Directive 2013/56/EC (Battery and accumulators Directive) *  * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.              | P2.1, P2.2, P2,3, P8.1 |
| Directive 2006/95/EC (Low Voltage Directive)  | P3.1                   |
| Directive 2004/108/EC (EMC Directive)   | P3.1                   |
| Directive 1999/5/EC (R&TTE Directive)   | P3.1                   |
| Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions | P3.1, P3.2             |
| Regulation (EC) No 1272/2008 (CLP Regulation)   | P7.19                  |
| Directive 2004/12/EC ( Packaging Directive)   | P5.1                   |
| Decision 97/129/EC (Secondary packaging legislation)  | P5.2                   |
| Directive 2012/19/EU (WEEE directive)   | P6.1                   |

# **Lenovo ErP Lot3 Information Sheet** - PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

### **Products scope of this sheet:**

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

| Commercial name        | Lenovo ideapad 720S-13/720S Touch-13 | Logo |         |
|------------------------|--------------------------------------|------|---------|
| Model Number           | 81A8, 81AE, 81BV, 81BX               |      | Longvo  |
| Issue Date             | 2017-7-28                            |      | Lenovo. |
| Additional information |                                      |      |         |

|  | Product environmental attributes   |                                     |                                     |                                     |                                     |
|--|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| d)   | Year of manufacture:   |                                     |                                     |                                     | 2017                                |
| e)<br>f)   | Etec value (kWh) per ErP Lot 3 Catego disabled and if the system is tested with Etec value (kWh) per ErP Lot 3 Categor   | switchable graphics n               | node with UMA driving               | the display.                        | , ,                                 |
| 1)   | enable   | y and capability adjust             | iments applied when a               | iii discrete grapilics (            | cards (dGIX) are                    |
|  |  | Category A (according to ErP Lot 3) | Category B (according to ErP Lot 3) | Category C (according to ErP Lot 3) | Category D (according to ErP Lot 3) |
|  | Memory over base [GB]  | 8                                   |                                     |                                     |                                     |
| ents   | Additional internal storage  | No<br>(Yes / No)                    | (Yes / No)                          | (Yes / No)                          | (Yes / No)                          |
| capability adjustments<br>applied during testing | Discrete television tuner  | No<br>(Yes / No)                    | (Yes / No)                          | (Yes / No)                          | (Yes / No)                          |
| ability a<br>lied du                             | Discrete Audio Card  | No<br>(Yes / No)                    | (Yes / No)                          | (Yes / No)                          | (Yes / No)                          |
| cape   | Discrete graphics Card(s) [number / #]   | No #:<br>(Yes / No)                 | #:<br>(Yes / No)                    | #:<br>(Yes / No)                    | #:<br>(Yes / No)                    |
|  | Category of discrete graphics Card(s)  |                                     |                                     |                                     |                                     |
| esults   | Etec Value (kWh) - dGfx disabled<br>all discrete graphics cards (dGfx) are disabled/<br>UMA is active for switchable graphics/<br>product has no graphics cards (dGfx) | 9.34                                |                                     |                                     |                                     |
| Test results                                     | Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled   |                                     |                                     |                                     |                                     |
| g)   | Idle state power demand (Watts);   | 1                                   | 1                                   | 1                                   | A: 2.52                             |
| h)   | Sleep mode power demand (Watts);   |                                     |                                     |                                     | A: 1.12                             |
| i)   | Sleep mode with WOL enabled power de   | emand (Watts) (where                | enabled);                           |                                     | A: 1.12                             |
| j)   | Off mode power demand (Watts);   |                                     |                                     |                                     | A: 0.41                             |
| k)   | Off mode with WOL enabled power dema   | and (Watts) (where en               | abled);                             |                                     | A: 0.41                             |
| l)   | Internal power supply efficiency at 10 %,  | 20 %, 50 % and 100 °                | % of rated output power             | er (if applicable):                 |                                     |
|  | 10% 20% 50%  | 100% Avera                          | age                                 |                                     |                                     |
| m)   | External power supply efficiency (if applied   | cable)*:                            |                                     |                                     |                                     |
|  | Average active efficiency: 89.23%;87.25  | 5%;89.44%;81.44%                    |                                     |                                     |                                     |
|  | *internal note: show values for all available external po  | ower supplies                       |                                     |                                     |                                     |
| 0)   | Minimum number of loading cycles that t  | he batteries can withs              | tand (applies only to n             | otebook computers):                 | 300CYCLES                           |
| p-1)   | Measurement methodology used to dete   | rmine information mer               | ntioned in points (I) - ir          | nternal PSU efficiency              |                                     |
|  |  | NA                                  |                                     |                                     |                                     |

| (p-2)           | Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency:  EPA "Test Method for calculating the Energy Eifficiency of Single-Voltage External AC-DC and AC-  AC Power Suppler" dated August 11,2014 |   |                                    |     |  |  |  |
|-----------------|--|---|------------------------------------|-----|--|--|--|
| (p-3)           | Measurement metho  | dology used to determine information mentioned in p  IEC61916 measurement methodology   |                                    |     |  |  |  |
| (p-4)           |  | dology used to determine information mentioned in n<br>Point P9.1 in the Product IT Eco Declaration:<br>IEC62321/IEC EN50564:2011 measurement m         | ·                                  |     |  |  |  |
| (q)             | Sequence of steps for achieving a stable condition with respect to power demand::  IEC62321/IEC EN50564:2011 measurement methodology   |   |                                    |     |  |  |  |
| (r)             | Description of how sl  | eep and/or off mode was selected or programmed:   |                                    |     |  |  |  |
|                 | refer to power man   | agement, sleep mode: ACPI system level G1/S3 (<br>ACPI system level G2/S5 ('soft off') s  |                                    |     |  |  |  |
| (s)             | Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:  *refer to power management, 30mins automatically reaches sleep mode*  |   |                                    |     |  |  |  |
| (t)             | Duration of idle state condition before the computer automatically reaches sleep mode, or another condition which does not exceed the applicable power demand requirements for sleep mode (in minutes):  |   |                                    |     |  |  |  |
| (u)             | Length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode (in minutes):  |   |                                    |     |  |  |  |
| (v)             | Length of time before the display sleep mode is set to activate after user inactivity (in minutes):  |   |                                    |     |  |  |  |
| (w)             |  |   |                                    |     |  |  |  |
| (x)             | User information on h  | now to enable the power management functionality: refer to user manual  |                                    |     |  |  |  |
| (z)             |  | measurements: — test voltage in V and frequency in system, — information and documentation on the insting:  230V50HZ-2%-Edition 2.0, 2011-01, Section 4 | strumentation, set-up and circuits |     |  |  |  |
| A dditi a na    | al Notabook Battan   | , lufavmatian   |                                    |     |  |  |  |
| Additiona       | al Notebook Batter   | Battery[ies] not user replaceable   | Battery[ies] user replaceable      | n/a |  |  |  |
|                 |  | The battery[ies] in this product cannot be easily replaced by users themselves. 1)  |                                    |     |  |  |  |
| Internal/b      | uilt-in Battery  |   |                                    |     |  |  |  |
| External/o      | letachable Battery   |   |                                    |     |  |  |  |
| Bios Back       | cup Battery  |   |                                    |     |  |  |  |
| Other:          |  |   |                                    |     |  |  |  |
| Additional      | Additional information   |   |                                    |     |  |  |  |
|                 |  |   |                                    |     |  |  |  |
|                 |  |   |                                    |     |  |  |  |
| 1)              |  |   |                                    |     |  |  |  |
| The battery[ies | ] in this product cannot be  | easily replaced by users themselves.  |                                    |     |  |  |  |

Акумулаторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители. Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios. Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé.

Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt.

Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden. Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada. Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες

La/les batterie(s présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes. Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.

La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente.

Lietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us).

Šio gaminio baterijos [bateriju] pats vartotojas negali lengvai pakeisti.

A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni.

Il-batterija/batteriji f'dan il-prodott ma tistax/jistgħux tiġi/jiġu sostitwita/i mill-utenti stess. Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.

De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar. Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie. A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores.

Bateria (bateriile) din acest produs nu poate (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși. Batériu(-ie) v tomto výrobku nemôže vymieňať používateľ. Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.

Tämän tuotteen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissa.

Det är inte enkelt för kunden att själv byta ut batteriet/batterierna. Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.