VDE Prüfbericht / *VDE Test Report*

Prüfbericht Nr. *Report No.*	296262-TL7-1
VDE-Aktenzeichen *VDE File No.*	5022428-9021-0066/296262
Ausstellungsdatum *Date of issue*	2022-06-15
Labor *Laboratory*	**VDE** Prüf- und Zertifizierungsinstitut GmbH ***VDE** Testing and Certification Institute*
Adresse *Address*	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüfort / Adresse *Testing location/ address*	**VDE** Prüf- und Zertifizierungsinstitut GmbH
Auftraggeber *Applicant's name*	Motorola Mobility LLC
Auftraggeber Adresse *Applicant's address*	222 W. Merchandise Mart Plaza, Chicago, Illinois 60654, USA
Angewandte Norm(en) *Applied standard(s)*	Motorola W18 E
	2011/65/EU & 2015/863/EU(RoHS)
	1907/2006/EC § 33 (REACH, SVHC)
	1907/2006/EC Annex XIV (REACH, Authorisation List)
	1907/2006/EC Annex XVII (REACH, List of restrictions)
Art der Prüflinge *Test item description*	**Smart Phone**
Warenzeichen *Trade Mark*	**Motorola/Lenovo**
Typenbezeichnungen(en) *Type reference(s)*	**Model: XT2243 Series** **S/N: NTUR130104**
Bemessungsdaten *Ratings*	

Haftungsausschluss / *Disclaimer:*

Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen.
Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden
This test report contains the result of a singular investigation carried out on the product submitted. A sample of this product was tested to found the accordance with the thereafter listed standards or clauses of standards resp.
The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below. Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.

Zustand des Prüfmusters *Test sample condition*.....	☒	Unbeschädigtes Prüfmuster *Non-damaged sample*
	Bemerkung / *Remark:*	
Wareneingang Prüfmuster *Sample entry date*.....	2022-04-14	
Datum der Durchführung der Prüfungen *Date (s) of performance of tests*.....	2022-04-14 – 2022-06-15	

Geprüft und erstellt von: *Tested by*.....:	Annkatrin Kuhl	
Name / *Name,* Unterschrift / *Signature*.....:	(Autorisierung des Prüfberichtes *Authorization of test report*)	
Funktion / *Function*.....:	Prüfingenieur / Testing engineer	
Überprüft von / *approved by*.....:		
Name / Name, Unterschrift / Signature.....:	Beatrice Duchardt	
Funktion / *Function*.....:	Fachzertifizierer / *Technical Certification Officer*	

Abschließendes Prüfergebnis ***Final Verdict:***	☒	**P**	☐	**F**
Bemerkung / *Remark*.....:				

Durchgeführte Prüfungen / *Performed tests*			
Abschnitt *Clause*	Prüfanforderungen / *Requirement + Test*	Ergebnis – Anmerkung *Result – Remark*	Beurteilung *Verdict*
	Motorola W18 E	Substances detected	
	2011/65/EU & 2015/863/EU(RoHS)	Pass	P
	1907/2006/EC § 33 (REACH, SVHC)	Substances detected	Reporting required*
	1907/2006/EC Annex XIV (REACH, Authorisation List)	Substances detected	
	1907/2006/EC Annex XVII (REACH, List of restrictions)	Substances detected	
Ergänzende Information / *Supplementary information*:			
* According to the kind and extend of the tests performed no reporting is required on the functional unit level. However, reporting is required on the homogeneous material level due to 1,3-propanesultone.			

Allgemeine Bemerkungen / *General Remarks:*
Konformitätserklärung / *Conformity statement*: Die VDE-Entscheidungsregel für die Konformitätserklärung entspricht dem Verfahren 2 nach IEC Guide 115:2021 / *The VDE decision rule for the statement of conformity is in accordance with IEC Guide 115:2021 procedure 2*

Prüf- und Messmittel / *Testing and measuring equipment*:		
Parameter/s	Instrument/s	Method/e
Chemical elements Screening	Energy-Dispersive X-Ray Fluorescence (EDXRF) Spectro XEPOS XC (XC) Inv. No. 1150667 Spectro XEPOS HE (XL) Inv. No. 1150529 Spectro XEPOS HE (XR) Inv. No. 1150796	IEC 62321-3-1:2013
Polymers	Infrared Spectrometry (IR) Bruker ALPHA (IR1) Inv. No. 1150578 Bruker INVENIO S (IR2) Inv. No. 1150787	Inhouse Method SOP TL72 0214 Version 1
Cr(VI)	Ultraviolet Spectrometry (UV-Vis) Agilent Technologies Cary 8454 UV-Vis Inv. No. 1150611	IEC 62321-7-1:2015
Pb, Br Localization	Energy-Dispersive X-Ray Fluorescence (EDXRF) Spectro Midex (M1) Inv. No. 1150728 Spectro Midex (M2) Inv. No. 1150284 Spectro Midex (M3) Inv. No. 1150774 Spectro Midex (M4) Inv. No. 1150776 Bruker M4 Tornado Inv. No. 1150719	IEC 62321-1:2013 IEC 62321-2:2021
REACH SVHC / Annex XIV / Annex XVII Substances Headspace screening	Gas chromatography with mass spectrometric detection (GC-MSD) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (HS-GC2) Inv. No. 5211104	VUP Guide: Screening Products for SVHC according to the REACH Regulation
REACH SVHC / Annex XIV / Annex XVII Substances screening	Gas chromatography with mass spectrometric detection (GC-MSD) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-5) Inv. No. 5211095 ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-4) Inv. No. 5211053	VUP Guide: Screening Products for SVHC according to the REACH Regulation
Phthalates	Gas chromatography with mass spectrometric detection (GC-MSD) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-5) Inv. No. 5211095	Inhouse Method
PAH	Gas chromatography with mass spectrometric detection (GC-MSD) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-5) Inv. No. 5211095 ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-4) Inv. No. 5211053	AfPS GS 2019:01 PAK IEC 62321-10/CD

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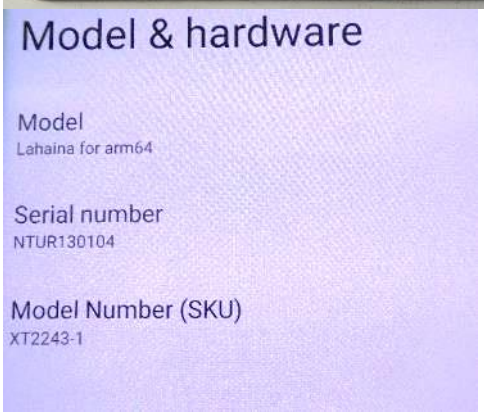
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1 Description of the Sample (EUT)

Type of EUT:	Product as mentioned on page 1
Model:	
Serial number:	







2 Assessment summary of substances according to 12G02897W18

2.1 Global Compliance Acceptance Criteria (banned and controlled Substances)

Substances	Results
Asbestos, asbestos compounds	For indicator elements Al and Si see chapter 3 [1)]
Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (“BNST”)	n.t.
Chlorofluorocarbons and halons (Class I and II Ozone Depleting Chemicals) [1]	For indicator element Cl see chapter 3 [1)]
Halogenated dioxins and furans	(For indicator element Cl and Br see chapter 3 [1)])
Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), and Sulfur Hexafluoride (SF6)	n.t.
Mercury and Mercury Compounds	n.d. see chapter 3
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-imethylethyl)-	n.d. see chapter 5
Polychlorobiphenyls and derivatives (PCBs)	For indicator element Cl see chapter 3 [1)]
Polychloroterphenyls and derivatives (PCTs)	For indicator element Cl see chapter 3 [1)]
Azo Dyes in leathers and textiles	n.a. (no leather and textiles)
Arsenic and arsenic compounds in wood products as a preservative [3]	For indicator element As see chapter 3 [1)]
Bisphenol-A [4]	Not Detected see chapter 5
Cadmium and cadmium compounds	n.d. see chapter 3
Cadmium, Chromium (VI), Lead and Mercury metals and compounds in packaging	n.a. (no packaging)
Cadmium and cadmium compounds in “portable” batteries	n.a. (no batteries)
Chromium (VI) compounds	n.d. see chapter 3
Chromium (VI) compounds in leather and textiles	n.a. (no leather and textiles)
Cobalt Dichloride	For indicator element Co see chapter 3 [1)]
Creosotes	For indicator substances (Anthracene, Benzo[a]pyrene etc.) see chapter 5
Diisobutyl Phthalate (DIBP), Dibutyl Phthalate (DBP), Benzyl Butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP)	Not detected see chapter 2.3, 3, 5
Diisononyl Phthalate (DINP)	n.d. see chapter 3, 5
Formaldehyde	n.a. (no Composite Wood Products, textiles, washing or cleaning agents, cosmetic care products)
Lead and lead compounds	**detected** see chapter 2.2; 2.3; 3; 4
Lead in cable jackets [1, 2]	n.d. see chapter 3
Nickel and nickel compounds [4]	**detected** see chapter 3 [2)]
Nonylphenol ethoxylate [7]	n.d. see chapter 5
Nonylphenol and its isomer mixtures [7]	n.d. see chapter 5

Substances	Results
Polybrominated biphenyls (PBBs)	n.d. see chapter 3
Polybrominated diphenyl ethers (PBDEs)	n.d. see chapter 3
Perchlorates-Lithium Perchlorate, Magnesium Perchlorate, Zinc Perclorate [5]	n.a. (no perchlorate Batteries)
Perfluoro alkyl sulfonates (PFAS), and derivatives (including PFOS)	n.t.
Perfluorooctanoic Acids	n.t.
Persistant Organic Pollutants (POP)	n.t. For indicator elements Br and Cl see chapter 3 [1)]
Poly Vinyl Chloride (PVC) vinyl chloride monomer in External Cables	n.d. see chapter 3 (no external cables)
Certain short and medium chained chlorinated paraffins	n.d.
REACH Authorised and Restricted Substances not otherwise listed	detected see chapter 5
REACH Authorised and Restricted Substances not otherwise listed - Entry 20 Organostannic compounds [6]	n.d.
REACH Authorised and Restricted Substances not otherwise listed - Entry 21 Di-µ-oxo-di-n-butylstanniohydroxyborane [6]/ Dibutyltin hydrogen borate C8H19BO3Sn (DBB)	Sn < 0.04 %[1)] (DBB < 0.1%)
REACH Authorised and Restricted Substances not otherwise listed - Entry 50 Polycyclic-aromatic hydrocarbons (PAH)	n.a. (no rubber or dark plastic materials that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity under normal or reasonably foreseeable conditions of use)
REACH Candidate List Substances not otherwise listed	**detected** see chapter 5
Tris(2-chloroethyl)phosphate (“TCEP”)	n.d. see chapter 5
Tris(1,3-dichloro-2-propyl) phosphate (“TDCPP”)	For indicator element Cl see chapter 3 [1)]

[1] Substance may not be intentionally added.
[2] The concentration basis is based on the weight of the external cable jacket not including any conductors, sheathed conductors or ground jackets.
[3] Banned in packaging and as a fumigation technique for wood pallets and other wood packaging (includes methyl bromide).
[4] Controlled in surface preparations of products and parts intended to come into direct and prolonged contact with the skin. For Nickel, such products and parts must be evaluated by a materials testing laboratory in accordance with EN1811:1999 to validate that the Nickel ion release rate is < 0.5 µg/cm²/week. A supplier must provide a declaration of compliance with this standard along with their material disclosure for affected products and parts. If the Nickel reported will not come into direct and prolonged contact with the skin, the supplier must add the following comment to the Remarks column: “Nickel will not come into direct or prolonged contact with the skin.”
[5] Lithium perchlorate in coin cell batteries rated over 10mAh is allowed; this regulation also requires labeling of the end product
[6] Substance shall not be greater than the equivalent of 0.1 % by weight of tin.
[7] One isomer tested as representative for substance group
n.t.: Not tested
n.d.: Not detected
n.a.: Not applicable
[1)] Relevant compounds based on XRF Screening test results. For the speciation of the substances, further testing could be required
[2)] Not in surface preparations of products intended to come into direct and prolonged contact with the skin./
[3)] Depending on the actual nature of the compound there is a risk of REACH Annex XVII non compliance.

Following materials of concern according to Motorola 12G02897W18 rev. E were identified that exceed the thresholds according to Appendix C Section V for controlled and banned substances.

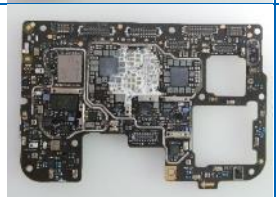
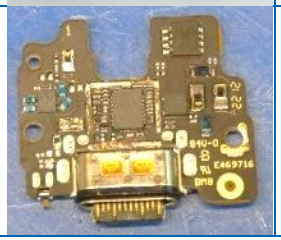
2.2 Items that only use Homogeneous Materials

None

2.3 Phthalates in fractions

None

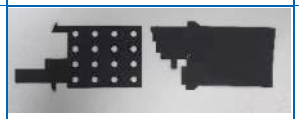
2.4 Non Homogeneous items that require attention on the sub item level

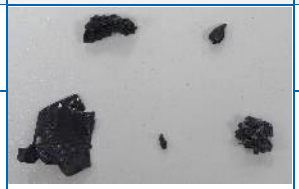
Sample Item	Description	Photo	Sub item	Material of Concern (Concentration) [1]	Does that rating make use of an Exemption	Sub Item level acceptance rating
FI2483-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, PWB		PWB (100%)[2]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**
FI2493-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Display flex, Flex		Flex (100%)[2]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**
FI2477-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Main PWB, PWB		PWB (100%)[2]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**
FI2481-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Sub PWB 1, PWB		PWB (100%)[2]	**Pb**	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	**Pass, exemption applicable**

[1] Threshold limits are given in ppm, exemptions are in wt.% - ppm = mg/kg (w/w)
[2] Components have been identified that contain lead in ceramics. Due to expired exemption for lead in dielectric ceramic capacitors (of less than 125V AC or 250V DC) it has to be made sure that the exemption is really applicable to all single components identified to contain Lead - see x,y-board scan

3 Material Assay Screening Results

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
22-167 Motorola, Smart Phone Model #:XT2243 series								
FI2458-00	22-167 Motorola, Smart Phone Model #:XT2243 series, SIM Card holder		0.335	0.19%				
FI2458-01	22-167 Motorola, Smart Phone Model #:XT2243 series, SIM Card holder, Metal plate				30.15%		Main: Cr Fe Ni; Other: Al P S V Mn Co Cu; Trace: .	Reportable: Al Cr Fe Co Cu; Controlled: Ni.
FI2458-02	22-167 Motorola, Smart Phone Model #:XT2243 series, SIM Card holder, Metal Cover				28.06%		Main: Al P S Ni Cu; Other: V Cr Mn Fe Ga Mo; Trace: Zn.	Reportable: Al Cr Fe Cu; Controlled: Ni.
FI2458-03	22-167 Motorola, Smart Phone Model #:XT2243 series, SIM Card holder, Label				0.30%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: Fe.	
FI2458-04	22-167 Motorola, Smart Phone Model #:XT2243 series, SIM Card holder, Blackplastic frame				37.91%	PC	Main: Si S Ca; Other: P Cl K Ti Fe; Trace: V Cr Mn Ni Cu Zn Sr Y Zr Ta.	Reportable: Fe Si P;
FI2458-05	22-167 Motorola, Smart Phone Model #:XT2243 series, SIM Card holder, Black glue				3.58%	PUR	Other: Si P S Cl Ca; Trace: Fe.	
FI2459-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Label 1-6		0.013	0.01%				
FI2459-01	22-167 Motorola, Smart Phone Model #:XT2243				15.38%	PVC 80% SEBS 20%	Main: Ca; Other: Al Si P S Cl;	Reportable: Al Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	series, Label 1-6, Label 1						Trace: Ti Fe.	
FI2459-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Label 1-6, Label 2				15.38%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K V Fe Sn.	
FI2459-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Label 1-6, Label 3				15.38%	PAI 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: V Fe Sn.	
FI2459-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Label 1-6, Label 4				15.38%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K Fe Sn.	
FI2459-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Label 1-6, Label 5				23.08%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: Fe.	
FI2459-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Label 1-6, Label 6				7.69%	PP 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K Fe Sn.	
FI2459-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Label 1-6, Humidity indicator				7.69%	Paper 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K Fe Sn.	
FI2460-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Black foil strip 1+2		1.449	0.84%				
FI2460-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black foil strip 1+2, Black foil strip 1				58.45%	PET 60% PUR 20% Acrylic 20%	Main: Si S; Other: P Cl K Ca Ti Fe; Trace: Mn Ni Zn Mo Ta W.	Reportable: Fe Si P;
FI2460-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black foil strip 1+2,Black foil strip 2				41.55%	PET 60% PUR 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Sn.	Reportable: Si;

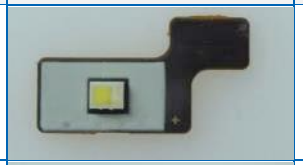
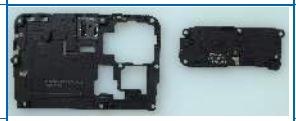
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2461-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5		0.848	0.49%				
FI2461-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 1				32.08%	Acrylic	Other: P S Cl K Ca Ti Fe Zn; Trace: V Cr Mn Ni Cu Ba Ta.	Reportable: Fe Zn;
FI2461-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 2				4.60%	Acrylic	Other: Si P S Ca; Trace: Cl K Ti Fe Zn.	
FI2461-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 3				33.96%	PET 80% Acrylic 20%	Other: Si P S Cl K Ca Ti Fe Zn; Trace: Mn Ni Cu Ta W.	Reportable: Fe Zn Si P;
FI2461-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 4				0.47%	Acrylic	Other: Si P S Ca; Trace: Cl K Fe Zn Sn.	
FI2461-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 5				28.89%	Acrylic	Other: Si P S Cl K Ca Ti Fe Zn; Trace: V Cr Ni Cu Ta.	Reportable: Fe Zn;
FI2462-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside cover with foil		14.714	8.54%		Glas 70% PET 20% Acrylic 10%	Main: Al Si K; Other: P S Cl Ca Ti V Fe Zn Zr Nb Sn Ba; Trace: Mn Ni Ga Rb Ta.	Reportable: Al Fe Zn Sn Ba Si P;
FI2463-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8		0.225	0.13%				
FI2463-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 1+2				5.33%	PUR 80% Acrylic 20%	Other: Si P S Cl K Ca; Trace: Ti Fe Sn.	
FI2463-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 3				38.22%	PET 40% PUR 40% Acrylic 20%	Main: Si; Other: P S Cl K Ca Ti Fe; Trace: Cr Ni Cu Zn Ta W.	Reportable: Fe Si P;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2463-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 4				6.22%	PET 40% PUR 40% Acrylic 20%	Other: Si P S Ca; Trace: Cl K Ti Fe.	
FI2463-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 5				10.67%	PET 40% PUR 40% Acrylic 20%	Main: Si; Other: P S Cl K Ca Ti Cr Fe Ni Cu; Trace: Mn Zn Ta W.	Reportable: Cr Fe Si P;
FI2463-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 6				11.11%	PET 40% PUR 40% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Ti Fe.	
FI2463-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 7				9.33%	PET 40% PUR 40% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Sn.	
FI2463-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 8				19.11%	PET 40% PUR 40% Acrylic 20%	Main: Si S; Other: Al P Cl K Ca Ti Fe Zn; Trace: Cr Mn Ni Cu Ta W.	Reportable: Al Fe Si P;
FI2464-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover		6.188	3.59%				
FI2464-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Metallic Glue strip				2.25%	PET 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl Ca Ti Fe Zn Yb Hf Ta; Trace: K Y Zr Sn Ba.	Reportable: Al Fe Cu Ta Si; Controlled: Ni.
FI2464-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Large Metal Cover				67.10%		Main: Al P S Ni Cu; Other: V Cr Mn Fe Zn Ga; Trace: .	Reportable: Al Cr Fe Cu Zn; Controlled: Ni.
FI2464-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Small Metal Cover				18.26%		Main: Al P S Cu; Other: V Mn Fe Ni Ga; Trace: .	Reportable: Al Fe Cu; Controlled: Ni.
FI2464-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Clear plastic cover				6.27%	PMMA	Other: Si P S Cl K Ca Fe; Trace: Ti Cr Ni Ta.	Reportable: Fe Si P;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2464-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Light guide				0.40%	PMMA	Main: Si S; Other: P Cl K Ca Fe; Trace: Ti Cr Ni Zn Ta W.	Reportable: Fe Si P;
FI2464-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Black glue strip				0.63%	PET 80% Acrylic 20%	Main: Si S Ti; Other: Al P Cl K Ca V Fe Ba; Trace: Ni Zn Sr Mo Ta W.	Reportable: Al Fe Ba Si P;
FI2464-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Small glas Lense				0.53%		Main: Al Si S K; Other: P Cl Ca Ti Fe Sn; Trace: Cr Ni Zn Y Zr Nb Ta.	Reportable: Al Fe Sn Si P;
FI2464-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Black glue strip1				0.02%	EVA 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Ti Fe Sn.	
FI2464-09	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Large glas lense1				2.15%		Main: Al Si K; Other: P S Cl Ca Fe Sn; Trace: Ti Ni Zr Nb Ta.	Reportable: Al Fe Sn Si P;
FI2464-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Black glue strip2				0.05%	EVA 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: Fe Zn Sn.	
FI2464-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Large glas lense2				2.15%	PET	Main: Al Si K; Other: P S Cl Ca Fe Sn; Trace: Ti Ni Zr Nb Ta.	Reportable: Al Fe Sn Si P;
FI2464-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Black glue strip2				0.06%	EVA 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Ti Fe Zn Sn.	
FI2464-13	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Black glue strip3				0.13%	EVA 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: Fe Sn.	

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2465-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8		0.791	0.46%				
FI2465-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 1				4.17%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Sn.	Reportable: Si;
FI2465-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 2				0.38%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Sn.	
FI2465-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 3				9.36%	PET 80% Acrylic 20%	Main: Si S; Other: Al P Cl K Ca Fe Cu Zn; Trace: Ti V Cr Mn Ni Mo Ta.	Reportable: Al Fe Zn Si P;
FI2465-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 4				8.98%	PET 80% Acrylic 20%	Main: Si S; Other: Al P Cl K Ca Ti Fe Zn; Trace: Cr Ni Cu Mo Ta W.	Reportable: Al Fe Zn Si P;
FI2465-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 5				0.38%	PET 80% Acrylic 20%	Other: Al Si P S Cl Ca; Trace: K Ti Fe Zn Sn.	Reportable: Al Si;
FI2465-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 6				2.53%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Zn; Trace: K Fe.	Reportable: Zn;
FI2465-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 7				74.08%	PET 80% Acrylic 20%	Main: Si; Other: P S Cl K Ca Fe Cu Zn; Trace: Ti Ni Y Ta W.	Reportable: Fe Cu Si P;
FI2465-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 8				0.13%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Ti Fe Sn.	

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2466-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Clear glue strip, Copper glue strip, Metallic glue strip		0.477	0.28%				
FI2466-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Clear glue strip, Copper glue strip, Metallic glue strip, Clear glue strip 1				2.10%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Ti Fe Sn.	
FI2466-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Clear glue strip, Copper glue strip, Metallic glue strip, Copper glue strip 1				7.55%	Metal 80% Acrylic 20%	Main: Cu; Other: Si P S Cl Ca Co Ni Zn Hf Ta W; Trace: K Ti Cr Fe Sn.	Reportable: Co Cu Ta W Si; Controlled: Ni.
FI2466-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Clear glue strip, Copper glue strip, Metallic glue strip, Copper glue strip 2				24.95%	Metal 80% Acrylic 20%	Main: Cu; Other: Al Si P S Cl Ca Ni Zn Hf Ta; Trace: K Ti Fe Co Sn W.	Reportable: Al Co Cu Zn Ta Si; Controlled: Ni.
FI2466-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Clear glue strip, Copper glue strip, Metallic glue strip, Copper glue strip 3				65.20%	Metal 80% Acrylic 20%	Main: Al Si Cu; Other: P S Cl Ca Co Ni Zn Ta W; Trace: K Ti Cr Fe.	Reportable: Al Co Cu Zn Ta W Si; Controlled: Ni.
FI2466-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Clear glue strip, Copper glue strip, Metallic glue strip, Metallic glue strip 1				0.21%	PET 80% Acrylic 20%	Other: Al Si P S Cl Ca Ni Cu; Trace: K Ti Fe Co Zn Hf Ta W.	Reportable: Al Co Cu Si; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2467-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Flashllight PWB		0.102	0.06%			Main: Al Si P S Ca Ni Cu; Other: Cl Ti Sr Ba Nd Au; Trace: V Cr Mn Ge Sn.	Reportable: Al Cu Ba Nd Au Si P; Controlled: Ni.
FI2468-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Black screws 1+2, Silver screws		0.780	0.45%				
FI2468-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black screws 1+2				95.38%		Main: P S Fe Zn; Other: Al V Cr Mn Co Ta W; Trace: Cu.	Reportable: Cr Fe Co Zn W;
FI2468-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Silver screws				4.62%		Main: P S Fe Zn; Other: Al Cr Co Ta; Trace: .	Reportable: Cr Fe Co Zn;
FI2469-00	22-167 Motorola, Smart Phone Model #:XT2243 series, NFC Flex		1.064	0.62%				
FI2469-01	22-167 Motorola, Smart Phone Model #:XT2243 series, NFC Flex,Black glue foil				51.69%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Sn.	Reportable: Si;
FI2469-02	22-167 Motorola, Smart Phone Model #:XT2243 series, NFC Flex, Flex				48.31%		Main: Fe Ni Cu Zn; Other: Al Si S Cl K Ca Ti Mn Co Zr Mo Ba Ta W; Trace: Ga Ge Rh.	Reportable: Al Fe Co Cu Zn Ba Ta W Si; Controlled: Ni.
FI2470-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic cover 1+2		3.117	1.81%				
FI2470-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic cover 1, Black plastic cover				65.93%	PC	Main: Cr Ni Cu; Other: Al P S Cl Ca Mn Fe Co Zn Hf; Trace: K Mo Nd.	Reportable: Al Cr Fe Co Cu Zn P; Controlled: Ni.
FI2470-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic				2.63%		Main: Cr Mn Fe Ni; Other: Al P S V Co Cu Mo; Trace: .	Reportable: Cr Fe Co Cu; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	cover 1, Metal plate							
FI2470-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic cover 1, Black glue strip				0.06%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Sn.	
FI2470-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic cover 2				31.38%	PC	Main: Cr Cu; Other: P S Cl Ca Mn Fe Co Ni Zn Mo Hf Ta; Trace: W.	Reportable: Cr Fe Co Cu Zn P; Controlled: Ni.
FI2471-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Metallic shock pads 1-6		0.044	0.03%				
FI2471-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Metallic shock pads 1+5				4.55%	PUR 60% PA PAN 20% Acrylic 20%	Other: Si P S Cl Ca Ni Cu; Trace: K Ti Fe Co Zn Sn Hf Ta W.	Reportable: Co Cu; Controlled: Ni.
FI2471-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Metallic shock pads 2+3				4.55%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Cl Ca Co Ni Cu Ta; Trace: K Ti Fe Zn Sn Hf W.	Reportable: Al Co Cu Ta Si; Controlled: Ni.
FI2471-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Metallic shock pads 4				18.18%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Cl Ca Co Ni Cu Ta; Trace: K Ti Fe Zn Sn Hf W.	Reportable: Al Co Cu Ta Si; Controlled: Ni .
FI2471-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Metallic shock pads 6				72.73%	PUR 60% PET 20% Acrylic 20%	Main: Cu; Other: Si P S Cl Ca Ti Co Ni Hf Ta; Trace: K Fe Zn W.	Reportable: Co Cu Ta; Controlled: Ni.
FI2472-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Thermal paste 1+2		0.436	0.25%		Silicone	Other: Al Si P S Cl Ca Zn; Trace: K Fe.	Reportable: Al Zn Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2473-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1		0.639	0.37%				
FI2473-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Metal frame				21.60%		Main: P S Cr Mn Fe Ni Mo; Other: Al V Co Cu W; Trace: Te.	Reportable: Cr Fe Co Cu W; Controlled: Ni.
FI2473-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Copper wire				1.41%		Main: P S Cu; Other: Al Sn; Trace: V.	Reportable: Cu Sn;
FI2473-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Magnets				9.39%		Main: P S Fe Ni Cu; Other: Al V Co Ta; Trace: .	Reportable: Al Fe Co Cu; Controlled: Ni.
FI2473-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Contacts 1				0.94%		Main: P S Ni Cu Zn; Other: Al Ti V Fe Ta; Trace: .	Reportable: Fe Cu Zn; Controlled: Ni.
FI2473-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Contacts 2				0.63%		Main: P S Ni Cu Zn Sn; Other: Al Ti Fe; Trace: Te.	Reportable: Fe Cu Zn Sn; Controlled: Ni.
FI2473-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Contacts 3				0.16%		Main: P S Ni Cu Sn; Other: Al Ta; Trace: Te.	Reportable: Cu Sn; Controlled: Ni.
FI2473-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black plastic frame 1				3.60%	Polyester GF	Other: Al Si P S Cl K Ca Ti V Fe Ba; Trace: Sr.	Reportable: Al Fe Ba Si;
FI2473-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Copper glue strip				3.29%	Metal 80% Acrylic 20%	Main: Cu; Other: Si P S Cl Ca Co Ni Zn W; Trace: K Ti Fe Sn.	Reportable: Co Cu W Si; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2473-09	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Blue glass				2.50%		Other: Si P S Cl Ca Ti Cu Zn Ba; Trace: K V Fe Pr Nd Ta.	Reportable: Cu Ba Si;
FI2473-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black plastic frame 2				9.08%	PA	Other: Si P S Cl Ca Ti Ba; Trace: K V Fe Cu Zn Sn.	Reportable: Ba Si;
FI2473-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black plastic frame 3				5.95%	Polyester GF	Other: Si P S Cl Ca Ti Ba; Trace: K V Fe.	Reportable: Ba Si;
FI2473-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black plastic frame 4				7.20%	PC	Main: Si S; Other: P Cl K Ca Fe; Trace: Ti Cr Ni Zn Ta.	Reportable: Fe Si P;
FI2473-13	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Clear lenses				10.64%	Polyester	Main: Si S; Other: P Cl Ca Ti Fe; Trace: K Cr Ni Mo Ta.	Reportable: Fe Si P;
FI2473-14	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black foil rings				0.16%	PET	Other: Si P S Cl Ca; Trace: Fe Sn.	Reportable: Si;
FI2473-15	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, PWB				23.47%		Main: Al Si P S Ni Cu Au; Other: Cl K Ti Zn Ge Sr Pd Sn Ba Hf; Trace: Zr Ag I Nd.	Reportable: Al Cu Zn Pd Sn Ba Au Si P; Controlled: Ni.
FI2474-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2		0.227	0.13%				
FI2474-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside				9.25%	PC	Main: Si S; Other: P Cl K Ca Ti Fe Zn; Trace: Cr Ni Ta W.	Reportable: Fe Si P;

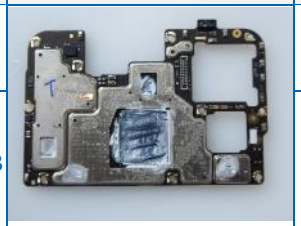
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	camera 2,Blackplastic housing							
FI2474-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2,Blackplastic frame				16.74%	Polyester GF	Main: Si S K; Other: Al P Cl Ca Ti Fe Rb; Trace: Cr Mn Ni Zn Ga Nb Mo Ba Ta W.	Reportable: Al Fe Rb Si P;
FI2474-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2, Blackplastic ring				0.44%	Polyester GF	Other: Si P S Cl Ca; Trace: Fe.	
FI2474-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2, Black foil rings				0.44%	Polyester	Other: Si P S Cl Ca; Trace: Fe.	
FI2474-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2, Lenses				2.20%	synthetic hard rubber	Other: Si P S Cl Ca Ti; Trace: Fe.	Reportable: Si;
FI2474-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2, Blue glass				4.85%		Other: Si P S Cl K Ca Ti Zn; Trace: Fe Sn.	Reportable: Zn Si;
FI2474-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2, PWB				66.08%		Main: Al P S Fe Cu; Other: Si Cl Ca Ti Cr Co Ni Zn Zr; Trace: Mn Ag Sn Ba.	Reportable: Al Cr Fe Co Cu Si P; Controlled: Ni.
FI2475-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera		0.538	0.31%				
FI2475-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Metal frame				23.42%		Main: P S Fe Ni; Other: Al Co; Trace: Bi.	Reportable: Fe Co; Controlled: Ni.
FI2475-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera,				10.59%	PC	Main: Si S Ca; Other: P Cl Ti V Fe Cu Ba; Trace: K Cr Mn Ni Zn Sr Hf	Reportable: Fe Cu Ba Si P;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	Black plastic housing						Ta.	
FI2475-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Magnets				9.11%		Main: Al P S Fe Ni Cu Ta; Other: V; Trace: .	Reportable: Al Fe Cu; Controlled: Ni.
FI2475-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Black plastic frame1				8.74%	PA	Other: Si P S Cl K Ca Ti Ba; Trace: Fe Cu Zn.	Reportable: Ba Si;
FI2475-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Copper wire				2.42%		Main: P S Cu; Other: Al; Trace: .	Reportable: Cu;
FI2475-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Contacts				2.04%		Main: P S Ti Cu; Other: Al Fe Mo Ta; Trace: .	Reportable: Fe Cu;
FI2475-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Blue glass				3.53%		Other: Si P S Cl Ca Ti Cu Zn Ba; Trace: V Fe.	Reportable: Cu Ba Si;
FI2475-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Black plastic frame 2				1.86%	Polyester GF	Other: Si P S Cl Ca; Trace: Ti V Fe Ba.	Reportable: Si;
FI2475-09	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Clear lenses				7.43%	synthetic hard rubber	Other: Si P S Cl Ca; Trace: K Fe.	
FI2475-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Foil rings				0.19%	PET	Other: Si P S Cl Ca; Trace: K Fe Sn.	Reportable: Si;
FI2475-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Black metal ring				2.97%		Main: P S Cu Zn; Other: Al Cr Fe Bi; Trace: .	Reportable: Cr Fe Cu Zn Bi;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2475-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, PWB				27.70%		Main: Al Si S Cu; Other: P Cl Ca Ti Fe Ni Br Sr Zr Sn Ba Hf Ta W Au; Trace: Mn Co Ga Ge Pd Ag .	Reportable: Al Fe Co Cu Sn Ba Ta W Au Si P; Controlled: Ni Br*.
FI2476-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3		2.370	1.38%				
FI2476-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Metal frame				13.38%		Main: P S Cr Mn Fe Ni Mo; Other: Al Ti V Co Cu W; Trace: .	Reportable: Cr Fe Co Cu W; Controlled: Ni.
FI2476-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Copper glue strip				2.07%		Main: Cu; Other: Al Si P S Cl Ca Ti Co Ni Zn Yb; Trace: K Cr Fe Ga.	Reportable: Al Co Cu Zn Si; Controlled: Ni.
FI2476-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black shock pad				0.55%	Pur 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Ti Fe.	
FI2476-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, PWB				35.19%		Main: Cr Fe Ni Mo; Other: Al Si P S V Mn Co Ba Nd Hf; Trace: Ge Rh Ag Sn Sb.	Reportable: Al Cr Fe Co Ba Nd; Controlled: Ni.
FI2476-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic frame 1				2.32%	Polyester GF	Other: Al Si P S Cl K Ca Fe; Trace: Ti.	Reportable: Al Fe Si;
FI2476-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic frame 2				2.66%	Polyester GF	Other: Al Si P S Cl K Ca Fe; Trace: Ti.	Reportable: Al Fe Si;
FI2476-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside				0.25%	PMMA	Other: Si P S Cl Ca Cu Sn; Trace: Fe.	Reportable: Sn Si;

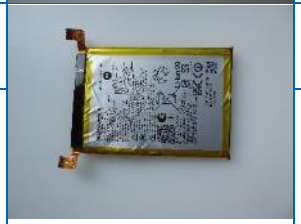
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	camera 3, Blue glue with solder							
FI2476-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Flex				5.36%		Main: Al S Cu; Other: Si Cl Ti Ni Sn Ba; Trace: Cr Fe Zn Rh Ag W Au Bi.	Reportable: Al Cu Sn Ba Si; Controlled: Ni.
FI2476-09	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Magnets				8.82%		Main: S Fe Ni Cu; Other: Al P V Co Mo Ta; Trace: Cr Te.	Reportable: Al Fe Co Cu; Controlled: Ni.
FI2476-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Metal frame2				2.45%		Main: P S Cr Fe; Other: Al V Mn Ni Cu; Trace: .	Reportable: Cr Fe; Controlled: Ni.
FI2476-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic frame3				3.29%	PC	Other: Si P S Cl Ca; Trace: Ti Fe Sn.	Reportable: Si;
FI2476-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Contacts				0.84%		Main: P S Cr Fe; Other: Al V Mn Co Ni Ta W; Trace: .	Reportable: Cr Fe Co W; Controlled: Ni.
FI2476-13	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Metal frame 3				2.66%		Main: P S Cr Fe Ni; Other: Al V Mn Cu Mo Ta; Trace: Te.	Reportable: Cr Fe Cu; Controlled: Ni.
FI2476-14	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic frame 4				3.33%	Polyester GF	Main: Al Si S K; Other: P Cl Ca Ti Fe Rb; Trace: V Cr Mn Ni Zn Ga Nb Mo Ta W.	Reportable: Al Fe Rb Si P;
FI2476-15	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Contacts 2				1.52%		Main: P S Cr Fe Ni; Other: Al V Mn Co Cu Mo W; Trace: .	Reportable: Al Cr Fe Co Cu W; Controlled: Ni.
FI2476-16	22-167 Motorola, Smart Phone Model #:XT2243				0.08%	PET	Other: Si P S Cl Ca;	Reportable: Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	series, Backside camera 3, Black foil rings						Trace: K Cr Fe.	
FI2476-17	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic rings				0.38%	PC	Other: Si P S Cl Ca; Trace: Ti Fe Sn.	Reportable: Si;
FI2476-18	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic housing				7.38%	PC/PET	Main: Si; Other: P S Cl K Ca Fe; Trace: Ti Ni Zn Mo Ta.	Reportable: Fe Si P;
FI2476-19	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Clear lenses				5.49%	hard sythethic rubber	Main: Si; Other: P S Cl Ca Ti Fe; Trace: K Ni Ta.	Reportable: Fe Si P;
FI2476-20	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Yellow beads				0.04%	SiO2	Other: Si P S Cl Ca Zr; Trace: Fe.	
FI2476-21	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, White beads				0.04%	SiO2	Other: Si P S Cl Ca Zr; Trace: Fe Y Hf.	
FI2476-22	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Gray beads				0.04%	SiO2	Other: Si P S Cl Ca Zr; Trace: Fe Y Sn Hf.	
FI2476-23	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black metal ring				1.86%		Main: Cu; Other: Si P S Cl Ca Co Zn Hf Ta; Trace: K Fe W Bi.	Reportable: Co Cu Zn Ta;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2477-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Main PWB		12.395	7.19%				
FI2477-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Main PWB, PWB				67.62%		See x,y-Scan results in Chapter 4 Main: Al Si S Ni Cu; Other: P Cl Ca Ti Cr Fe Zn Sr Zr Ag Sn Ba Au; Trace: Mn Co Ga Ge Y Mo Ru Pb Bi.	Reportable: Al Cr Fe Co Cu Zn Ag Sn Ba Au Si; **Controlled:** Ni **Pb**.
FI2477-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Main PWB, Shieldings				32.32%		Main: Al Ni Cu Zn; Other: P S Ti Mn Fe Sn Hf; Trace: V Mo.	Reportable: Al Fe Cu Zn Sn; Controlled: Ni.
FI2477-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Main PWB, Black rubber				0.06%	Silicone	Other: Al Si P S Cl Ca; Trace: K Fe Zn Sn.	Reportable: Al Si;
FI2477-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Main PWB, Humidity Indicator				0.01%	Paper 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K Fe Sn.	
FI2478-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call,		1.126	0.65%				
FI2478-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call, Metal housing				12.34%		Main: Cr Mn Fe Ni; Other: Al P S V Co Cu As; Trace: .	Reportable: Al Cr Fe Co Cu; Controlled: Ni As.
FI2478-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call, Metallic glue strip				0.89%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Co Ni Cu; Trace: Al K Ti Fe Zn Sn Hf Ta W.	Reportable: Co Cu; Controlled: Ni.
FI2478-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call, Contacts				2.40%		Main: P S Cr Mn Fe Ni; Other: Al V Cu W; Trace: .	Reportable: Cr Fe Cu W; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2478-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call, Magnet ring				69.01%		Main: Al P S Fe Ni Cu; Other: V Ta; Trace: .	Reportable: Al Fe Cu; Controlled: Ni.
FI2478-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call, Inner metal part				4.62%		Main: P S Fe Co Ni W; Other: Cr Cu Zn Ta ; Trace: V.	Reportable: Cr Fe Co Cu Zn W; Controlled: Ni .
FI2478-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call, Flex				8.88%		Main: Al Si P S Cr Fe Ni Cu; Other: Cl V Mn Co Zr Sn Au; Trace: Ti Mo Ru Ta.	Reportable: Al Cr Fe Co Cu Sn Au Si P; Controlled: Ni.
FI2478-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call, Copper ring				1.87%		Main: P S Cu; Other: Al; Trace: Fe.	Reportable: Cu;
FI2479-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable		0.147	0.09%				
FI2479-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable, Black cable jacket				18.37%	PTFE	Other: Si P S Cl Ca; Trace: Ti Fe Ba.	
FI2479-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable, White cable jacket				29.93%	PTFE	Other: Si P S Ca Ti Cu; Trace: Cl Fe Co Ag Hf.	Reportable: Co Cu;
FI2479-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable, Silver wire				21.09%		Main: P S Cu Sn; Other: Al Ti; Trace: .	Reportable: Cu Sn;
FI2479-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable, Black plastic parts				0.68%	PBT	Other: Si P S Cl Ca; Trace: K Ti Fe Ba.	

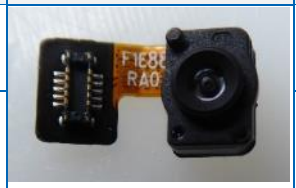
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2479-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable, Contacts				23.81%		Main: P S Ni Cu Sn Au; Other: Al; Trace: .	Reportable: Cu Sn Au; Controlled: Ni.
FI2479-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable, Metal tubes				6.12%		Main: P S Cr Fe Ni Cu; Other: Al V Mn Co Mo Sn; Trace: .	Reportable: Cr Fe Co Cu Sn; Controlled: Ni.
FI2480-00	22-167 Motorola, Smart Phone Model #:XT2243 series, White connection cable		0.174	0.10%				
FI2480-01	22-167 Motorola, Smart Phone Model #:XT2243 series, White connection cable, White cable jacket 1				22.41%	PFA	Other: Si P S Cl Ca Ti Cu; Trace: Fe Sn.	
FI2480-02	22-167 Motorola, Smart Phone Model #:XT2243 series, White connection cable, Silver wire				20.69%		Main: P S Cu Sn; Other: Al Hf; Trace: .	Reportable: Cu Sn;
FI2480-03	22-167 Motorola, Smart Phone Model #:XT2243 series, White connection cable, White cable jacket 2				33.91%	PTFE	Other: Si P S Cl Ca Cu Ag; Trace: Ti Fe Co Hf.	Reportable: Co Cu Ag;
FI2480-04	22-167 Motorola, Smart Phone Model #:XT2243 series, White connection cable, Black plastic parts				0.57%	PBT	Other: Si P S Cl Ca; Trace: Ti Fe Sn.	
FI2480-05	22-167 Motorola, Smart Phone Model #:XT2243 series, White connection cable, Contacts				17.24%		Main: P S Ni Cu Sn; Other: Al Au; Trace: .	Reportable: Cu Sn Au; Controlled: Ni.
FI2480-06	22-167 Motorola, Smart Phone Model #:XT2243				5.17%		Main: P S Cr Fe Ni Cu; Other: Al V Mn Co Sn;	Reportable: Cr Fe Co Cu Sn;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	series, White connection cable, Metal tubes						Trace: .	Controlled: Ni.
FI2481-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Sub PWB 1		1.224	0.71%				
FI2481-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Sub PWB 1, Label				0.08%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: V Fe.	
FI2481-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Sub PWB 1, Shielding				5.56%		Main: P S Ni Cu Zn Sn; Other: Al Mn Fe Ag; Trace: .	Reportable: Fe Cu Zn Ag Sn; Controlled: Ni.
FI2481-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Sub PWB 1, PWB				94.36%		See x,y-Scan results in Chapter 4 Main: Al Si S Cu Sn; Other: P Cl K Ca Ti Fe Ni Sr Zr Ag Ba Hf Au; Trace: Zn Ga Y Ru La Ce Pr W .	Reportable: Al Fe Cu Ag Sn Ba Au Si P; **Controlled: Ni Pb.**
FI2482-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Sub PWB 2		0.145	0.08%			Main: Al Si S Ca Fe Ni Cu Sn; Other: Cl Ti Cr Co Zn Sr Zr Ag Ba Hf Au; Trace: Ga Ge Mo Ce W.	Reportable: Al Cr Fe Co Cu Ag Sn Ba Au Si; Controlled: Ni.
FI2483-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery		60.953	35.37%				
FI2483-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, PWB				2.94%		See x,y-Scan results in Chapter 4 Main: Al Si S Cu; Other: P Cl Ca Ti Fe Ba; Trace: Cr Mn Ga Zr Ru Rh Sn Nd W Au Bi Pb.	Reportable: Al Fe Cu Ba Si P; **Controlled: Pb.**

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2483-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Black plastic cover				0.32%	PC/ABS	Main: Si P S; Other: Cl K Ca Fe; Trace: Ti Cr Ni Mo Ta.	Reportable: Fe Si P;
FI2483-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, White glue strip				0.04%	PET 80% Acrylic 20%	Main: Ti; Other: Si P S Cl Ca; Trace: K V Fe.	
FI2483-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Black glue strip				0.07%	PAI 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Sn.	Reportable: Si;
FI2483-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Black rubber strips				0.18%	Silicone 80% Acrylic 20%	Main: Al Si; Other: P S Cl K Ca Fe Zn; Trace: Ti Mn Co Ni Ta.	Reportable: Al Fe Co Si P;
FI2483-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Yellow glue strips 1				0.42%	PAI 80% Acrylic 20%	Main: Si; Other: P S Cl K Ca Fe; Trace: Ti Cr Mn Ni Zn Ta W.	Reportable: Fe Si P;
FI2483-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Outer metal foil				3.05%	Metal 80% PP 10% PA 10%	Main: Al Si Fe; Other: P S Cl K Ca Ti V Cr Cu; Trace: Mn Ni Zn Ga Mo W.	Reportable: Al Cr Fe Si P;
FI2483-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Contact strip 1				0.13%		Main: Al P S Fe; Other: Ti V Cr Co Cu Ga; Trace: .	Reportable: Al Cr Fe Co Cu;
FI2483-09	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Contact strip 2				0.32%		Main: Ni Cu; Other: Al P S Ti Fe Co; Trace: V Cr.	Reportable: Al Fe Co Cu; Controlled: Ni.
FI2483-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Green glue strips				0.18%	PET 80% Acrylic 20%	Main: S Ti Co Ni; Other: Al Si P Cl Ca V Fe Cu Zn Ta W; Trace: K Cr Mn Y Zr Hf.	Reportable: Al Fe Co Cu Zn Ta W Si P; Controlled: Ni.
FI2483-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Yellow				0.35%	PAI	Main: Co Cu; Other: Al Si P S Cl Ca Ti Y Yb Hf Ta;	Reportable: Al Co Cu Y Ta Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	glue strips 2						Trace: K V Cr Ni Zn Zr Sn W.	
FI2483-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Blue glue strips				0.06%	PET	Other: Si P S Cl Ca Cu; Trace: Fe Co.	Reportable: Co Cu Si;
FI2483-13	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Clear glue strips				0.08%	PET	Other: Si P S Ca Co; Trace: Cl K Fe Cu.	Reportable: Co;
FI2483-14	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Silver foil				7.84%		Main: Al P Fe Co; Other: S Ti V Mn Cu Ga; Trace: Zn.	Reportable: Al Fe Co Cu;
FI2483-15	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Copper foil				9.58%		Main: P Cu Hf; Other: Al S Cr; Trace: V.	Reportable: Al Cr Cu;
FI2483-16	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, White foil				6.09%	PE	Main: Al P S Co Cu; Other: Si Cl K Ca Ti Fe; Trace: V Cr Zn Ga Y Zr Yb W.	Reportable: Al Fe Co Cu Si P;
FI2483-17	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Carbon coating				68.36%		Main: Co Cu; Other: Al Si P S Cl Ca Ti Fe Y Yb Hf Ta; Trace: K V Cr Mn Ni Zn Zr Sn I Cs Ba La Ce Pr Nd W.	Reportable: Al Fe Co Cu Y Ta Si P;
FI2484-00	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex		1.976	1.15%				
FI2484-01	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Contacts 1				4.15%		Main: Al P S Ni Cu Sn; Other: Ti Fe Au; Trace: V.	Reportable: Al Fe Cu Sn Au; Controlled: Ni.
FI2484-02	22-167 Motorola, Smart Phone Model #:XT2243				0.40%	Acrylic	Other: Si P S Cl Ca Co Ni Cu	Reportable: Co Cu Ta;

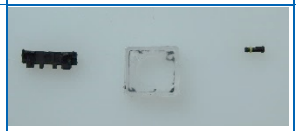
Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	series, PWB Connection/Sim card flex, Metallic glue strip						Ta; Trace: K Ti Fe Sn Hf W.	Controlled: Ni.
FI2484-03	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Metal part 1				1.67%		Main: P S Cr Mn Fe Ni; Other: Al V Co Cu Mo Ta W; Trace: .	Reportable: Cr Fe Co Cu W; Controlled: Ni.
FI2484-04	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Black glue strip				0.25%	PAI 80% Silicone 20%	Main: Si; Other: P S Cl Ca; Trace: K Fe Ni Cu Sn.	Reportable: Si;
FI2484-05	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Shielding				9.11%		Main: Cr Mn Fe Ni; Other: Al P S V Co Cu Mo Sn Au; Trace: .	Reportable: Al Cr Fe Co Cu Sn Au; Controlled: Ni.
FI2484-06	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Black shock pad				0.56%	PUR 60% PET 20% Acrylic 20%4	Other: Si P S Cl Ca; Trace: K Fe Sn.	
FI2484-07	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Metal part 2				3.90%		Main: P S Cr Mn Fe Ni; Other: Al V Co Cu Mo; Trace: .	Reportable: Cr Fe Co Cu; Controlled: Ni.
FI2484-08	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Contacts 2				0.25%		Main: P S Ni Cu Sn Au; Other: Al Fe Co Ta; Trace: .	Reportable: Fe Co Cu Sn Au; Controlled: Ni.
FI2484-09	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Flex				79.71%		Main: Al P S Cu; Other: Si Cl Ca Ti Ni Zr; Trace: Cr Fe Ga Ru Rh Ba Nd W Au Tl Bi.	Reportable: Al Cu Si P; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2485-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Sensor		0.138	0.08%				
FI2485-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Sensor, Black plastic housing				21.74%	PC	Main: Si S; Other: P Cl K Ca Ti Fe Zn; Trace: Cr Ni Cu Ta W.	Reportable: Fe Zn Si P;
FI2485-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Sensor, Blue glass				0.72%		Other: Si P S Cl Ca Ti; Trace: K Fe Zn Sn.	Reportable: Si;
FI2485-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Sensor, Lenses				3.62%	EVOH	Other: Si P S Cl Ca; Trace: K Ti Fe Sn.	
FI2485-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Sensor, Flex				73.19%		Main: Cr Fe Ni Cu; Other: Al Si P S Cl V Mn Co Mo Sn Ba Nd Hf; Trace: Ti Zn Zr Ru Rh Ag I.	Reportable: Al Cr Fe Co Cu Ba Nd Si; Controlled: Ni.
FI2485-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Sensor, Black foil ring				0.72%	PET	Other: Si P S Cl Ca; Trace: Fe Sn.	Reportable: Si;
FI2486-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker		2.824	1.64%				
FI2486-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, White granule				3.65%	PUR	Main: Si; Other: P S Cl K Ca; Trace: Fe.	Reportable: Si;
FI2486-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Black shock pad				0.35%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: Fe Ni.	
FI2486-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Membrane				1.06%	PET 80% PMMA 20%	Other: Si P S Cl Ca Ti; Trace: K Fe.	Reportable: Si;
FI2486-04	22-167 Motorola, Smart Phone Model #:XT2243				0.04%	PET 80% Acrylic 20%	Other: Si P S Ca;	

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
	series, Bottom speaker, White glue strip						Trace: Cl Ti Fe Sn.	
FI2486-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Black plastic housing				17.60%	PC/ABS	Main: Si S Ca; Other: P Cl K Ti Fe; Trace: Cr Mn Co Ni Br Sr Zr Sn Ta.	Reportable: Fe Co Si P;
FI2486-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Shielding 1				15.62%		Main: Cr Mn Fe Ni; Other: Al P S V Co Cu Mo; Trace: .	Reportable: Al Cr Fe Co Cu; Controlled: Ni.
FI2486-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Shielding 2				8.00%		Main: Cr Fe Ni; Other: Al P S V Mn Co Cu Mo W; Trace: .	Reportable: Al Cr Fe Co Cu W; Controlled: Ni.
FI2486-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Metal housing				8.43%		Main: P Fe Ni; Other: Al S Cr Co Bi; Trace: .	Reportable: Cr Fe Co Bi; Controlled: Ni.
FI2486-09	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Metal plate				4.53%		Main: P S Fe Ni; Other: Al Mn Co Bi; Trace: Cr.	Reportable: Fe Co Bi; Controlled: Ni.
FI2486-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Blue glue				0.04%	PET	Other: Si P S Cl Ca; Trace: K Fe.	
FI2486-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Magnet 1				11.05%		Main: Fe Zn; Other: Al P S V Cr Mn Co Cu Mo Te; Trace: .	Reportable: Cr Fe Co Zn Te;
FI2486-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Copper wire				13.81%		Main: Al P S Cu; Other: V Cr Fe; Trace: .	Reportable: Al Cr Fe Cu;
FI2486-13	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Metal parts				3.40%		Main: P S Fe Ni; Other: Al Mn Co; Trace: Cr Cu.	Reportable: Fe Co; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2486-14	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Red glue				0.04%	PUR	Other: Si P S Cl Ca; Trace: Fe Sn.	Reportable: Si;
FI2486-15	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Membrane 2				0.57%	Metal 80% PBT 20%	Main: Al; Other: Si P S Cl Ca Fe; Trace: K Ti V Cr Cu Sn.	Reportable: Al Fe Si;
FI2486-16	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Magnet 2				11.01%		Main: P S Fe Zn; Other: Al Co Ni; Trace: Cr Se.	Reportable: Fe Co Zn; Controlled: Ni.
FI2486-17	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Flex				0.81%		Main: Al Si P S Cu; Other: Cl Ca Co Ni Sn; Trace: Ti Zn Zr.	Reportable: Al Co Cu Sn Si P;
FI2487-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker		0.971	0.56%				
FI2487-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Metal Bottom plate				16.27%		Main: Ni Cu; Other: Si P S Cl Ca Co Hf Ta; Trace: K Ti Cr Fe Zn Sn W.	Reportable: Co Cu Ta Si P; Controlled: Ni.
FI2487-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Black shock pad				0.82%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Sn.	
FI2487-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Black net				0.51%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K Fe Sn.	
FI2487-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Metal Housing				22.25%		Main: P Fe Ni; Other: Al S Mn Co Bi; Trace: V Cr Mo.	Reportable: Fe Co Bi; Controlled: Ni.
FI2487-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Copper wire				2.57%		Main: P S Cu; Other: Al Ag; Trace: .	Reportable: Cu Ag;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. UD Appendix C relevant compounds [1)]
FI2487-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Magnets1				17.82%		Main: S Fe Zn; Other: Al P Cr Co Ni Cu W; Trace: Te.	Reportable: Cr Fe Co Cu Zn W;
FI2487-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Black plastic parts				3.91%	PA	Other: Si P S Ca; Trace: Cl Fe Sn.	
FI2487-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Small metal plate				2.16%		Main: P S Fe Ni; Other: Al Co Mo; Trace: .	Reportable: Fe Co; Controlled: Ni.
FI2487-09	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Metal parts				5.36%		Main: P S Fe Ni; Other: Al Co Ta; Trace: Mn.	Reportable: Fe Co; Controlled: Ni.
FI2487-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Silver Membrane				0.21%	Metal 80% MABS 20%	Main: Al; Other: Si P S Cl Ca Fe; Trace: K Ti V Cu Sn.	Reportable: Al Fe Si;
FI2487-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Small Metal plate 2				7.42%		Main: P S Fe Ni; Other: Al V Cr Co Cu Zn; Trace: Mn.	Reportable: Cr Fe Co Cu Zn; Controlled: Ni.
FI2487-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Magnets 2				15.55%		Main: Fe Zn; Other: Al P Cr Co W; Trace: .	Reportable: Cr Fe Co Zn W;
FI2487-13	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Small black nets				0.10%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Fe; Trace: K Ti Ni Sn.	Reportable: Fe; Controlled: .
FI2487-14	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Membrane				0.10%	PEEK	Other: Si P S Cl Ca; Trace: K Ti Fe.	Reportable: Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2487-15	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Flex				4.94%		Main: Al Si P S Cu; Other: Cl Ca Cr Fe Co Ni Sn; Trace: Ti Zn.	Reportable: Al Cr Fe Co Cu Sn Si P; Controlled: Ni.
FI2488-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic part, White plastic part, Black plastic pin		0.087	0.05%				
FI2488-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic part				31.03%	PA	Main: Si S Ca; Other: P Cl K Ti Fe; Trace: V Cr Mn Ni Zn Rb Sr Y Zr Ta W.	Reportable: Fe Si P;
FI2488-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic part				66.67%	PC	Main: Si S; Other: P Cl K Ca Fe; Trace: Ti Cr Ni Zn Mo Ta W.	Reportable: Fe Si P;
FI2488-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic pin				2.30%	PA	Other: Si P S Cl Ca; Trace: K Ti Fe.	Reportable: Si;
FI2489-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Volume button, Power button		0.131	0.08%				
FI2489-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Volume button, Metal button				68.70%		Main: Al P S Cu; Other: V Cr Mn Fe Ni Zn Ga; Trace: .	Reportable: Al Cr Fe Cu Zn; Controlled: Ni.
FI2489-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Volume button, Black glue strip				0.76%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: Fe.	
FI2489-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Volume button, Black rubber parts				0.76%	TPU	Other: Si P S Cl Ca; Trace: Fe Sn.	
FI2489-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Power button, Metal button				29.01%		Main: Al P S Cu; Other: V Cr Mn Fe Ni Ga; Trace: .	Reportable: Al Cr Fe Cu; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2489-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Power button, Black rubber parts				0.76%	TPU	Other: Si P S Cl Ca; Trace: Fe Sn.	
FI2490-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Button flex		0.135	0.08%				
FI2490-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Button flex, Metallic glue strip				5.93%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ni Cu Ta; Trace: Ti Fe Co Zn Hf W.	Reportable: Co Cu Ta; Controlled: Ni.
FI2490-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Button flex, Flex				94.07%		Main: Al S Fe Ni Cu; Other: Si P Cl Ca Ti Cr Co Ag Sn Hf; Trace: Mn Zn Ga Zr Mo Rh Ba Au.	Reportable: Al Cr Fe Co Cu Ag Sn Si P; Controlled: Ni.
FI2491-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Black net 1+2		0.023	0.01%				
FI2491-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black net 1				21.74%	PET 40% Silicone 40% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K Fe.	
FI2491-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black net 2				78.26%	PET 40% Silicone 40% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K Fe Zn.	
FI2492-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Front glass		18.720	10.86%				
FI2492-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Front glass, Front glass				99.37%	Glas 80% PMMA 20%	Main: Al Si K; Other: P S Cl Ca Fe Zn Sn I; Trace: Ti Mn Ni Ga Rb Zr Ag Ba Ta.	Reportable: Al Fe Zn Sn Si P;
FI2492-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Front glass, Black glue				0.63%	PUR	Other: Si P S Cl Ca; Trace: K Ti Fe.	Reportable: Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2493-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Display flex		1.256	0.73%				
FI2493-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Display flex, Large black and metallic glue strip				8.20%	PET 80% Acrylic 20%	Main: Cu; Other: Si P S Cl Ca Ti Co Ni Hf; Trace: Al K Fe Zn W.	Reportable: Co Cu; Controlled: Ni.
FI2493-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Display flex, Small metallic glue strip 1				0.24%	PET 80% Acrylic 20%	Other: Si P S Ca Ni Cu Ta; Trace: Cl Ti Fe Co Hf W.	Reportable: Co Cu Ta; Controlled: Ni.
FI2493-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Display flex, Small metallic glue strip 2				0.64%	PE 80% Acrylic 20%	Other: Si P S Cl Ca Ni Cu Ta; Trace: Ti Fe Co Hf W.	Reportable: Co Cu Ta; Controlled: Ni.
FI2493-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Display flex, Flex				90.92%		See x,y-Scan results in Chapter 4 Main: Al Si S Ti Ni Cu; Other: P Cl Ca Fe Zn Zr Au; Trace: Ga Ge Nb Rh Ag Ba Ce Tl Bi Pb.	Reportable: Al Fe Cu Zn Au Si P; **Controlled:** Ni **Pb.**
FI2494-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED		5.877	3.41%				
FI2494-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Clear Foil				23.46%	PET 80% Acrylic 20%	Main: Si S; Other: P Cl K Ca Ti Fe; Trace: Cr Mn Ni Zn Ta W.	Reportable: Fe Si P;
FI2494-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Golden glue foil				10.91%	PE 80% Acrylic 20%	Other: Al Si P S Cl Ca Ti Mo Au; Trace: K Fe Ni Cu Sn.	Reportable: Al Au Si;

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds [1)]
FI2494-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Copper glue foil				53.55%	Metal 80% Acrylic 20%	Main: Cu; Other: Al Si P S Cl K Ca Cr Co Zn Yb W; Trace: Ti Fe Ga Zr Ba.	Reportable: Al Cr Co Cu Zn W Si;
FI2494-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Black glue foil				11.67%	PET 80% Acrylic 20%	Main: Si S; Other: P Cl K Ca Fe; Trace: Ti Ni Zn Mo Ta.	Reportable: Fe Si P;
FI2494-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Silicon bar				0.37%		Main: Si P S Ti Ni Cu Ta Au; Other: Al Se Mo W; Trace: .	Reportable: Cu Se W Au; Controlled: Ni.
FI2494-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Metallic glue strip 1				0.02%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ni Cu; Trace: Ti Fe Co Hf Ta.	Reportable: Co Cu; Controlled: Ni.
FI2494-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Metallic glue strip 2				0.02%	PET 80% Acrylic 20%	Other: Si P S Ca Ni Cu; Trace: Cl Ti Fe Co Sn Hf Ta.	Reportable: Co Cu; Controlled: Ni.
FI2495-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Copper metal plate		4.273	2.48%			Main: Cu Sn; Other: Al Si P S Cl Zn Yb; Trace: Ti Mn Ge Y Zr Nb Ag Pr Nd Au Bi.	Reportable: Cu Sn;
FI2496-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Metal housing		25.415	14.75%				
FI2496-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Metal housing, Metal frame				91.47%		Main: Al P S Cu; Other: V Cr Mn Fe Ni Zn Ga Zr; Trace: .	Reportable: Al Cr Fe Cu Zn; Controlled: Ni.

Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. E Appendix C relevant compounds 1)
FI2496-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Metal housing, Gray plastic inlay				8.17%	PBT	Main: Si S Ca; Other: Al P Cl K Ti Fe Zn Zr; Trace: V Cr Mn Ni Sr Y Mo Ba Hf Ta W.	Reportable: Al Fe Zn Si P;
FI2496-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Metal housing, Metallic glue strip				0.18%	PE 80% Acrylic 20%	Main: Cu; Other: Si P S Cl Ca Co Ni Hf Ta; Trace: K Ti Fe Zn W.	Reportable: Co Cu Ta; Controlled: Ni.
FI2496-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Metal housing, Golden metal plates				0.18%		Main: Al P S Ni Au; Other: Cr Fe Cu Ta Bi; Trace: .	Reportable: Al Cr Fe Au Bi; Controlled: Ni.

) Relevant compounds based on XRF Screening test results (selected chemical elements). For the speciation of the substances, further testing could be required.
, Cr and Pb are also REACH relevant substances
* Bromine detected: indicates potential presence of Brominated Flame Retardants
** Sample tested for CrVI by colorimetric method.

The determinable concentration of DEHP/BBP/DBP/DIBP may be > 0.1% by weight in homogeneous materials for material with a weight below 0.02 g.
Only confirmed positive findings of materials of concern are reported – other (RoHS) substances are below detection limits for each sample. Detection limits for single samples are available on request.

4 Results EDXRF Scan

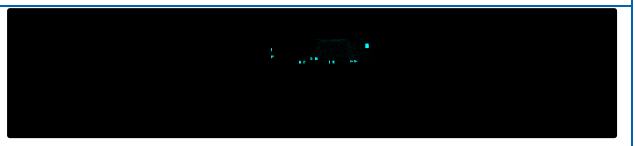
Results x,y Scan Sample FI2483-01



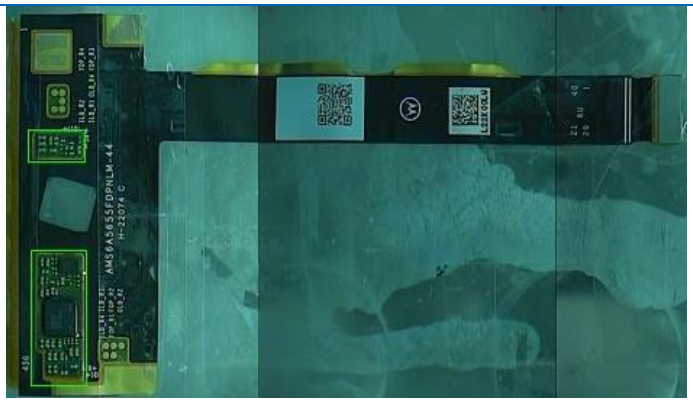


Bromine	
Not detected	Not detected
Lead	





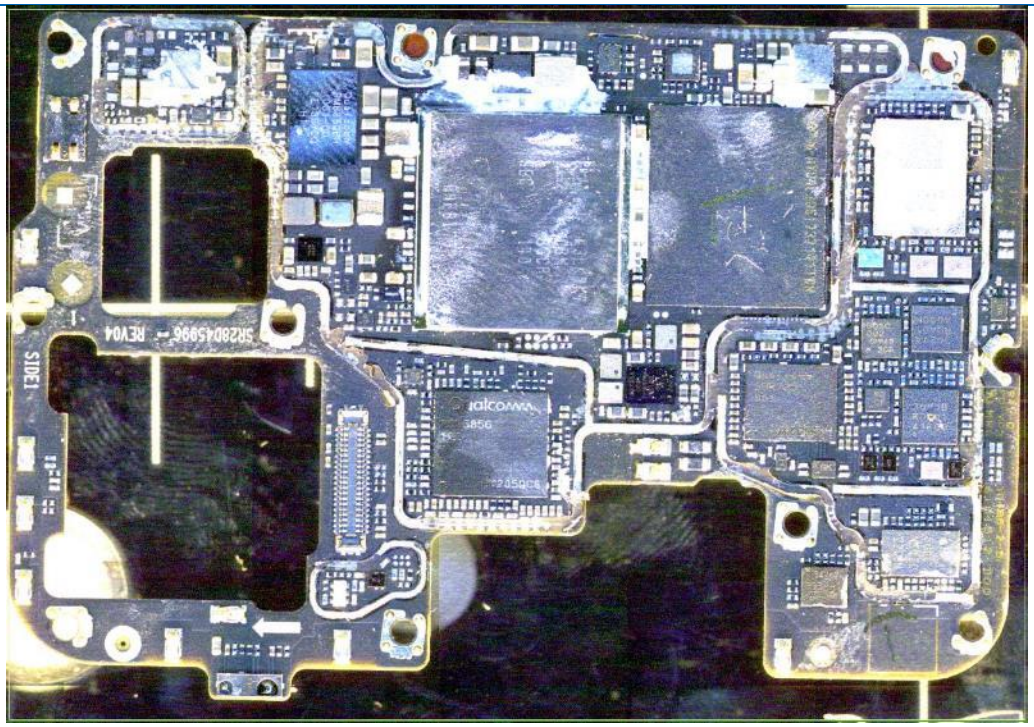
Results x,y Scan Sample FI2493-04 Top



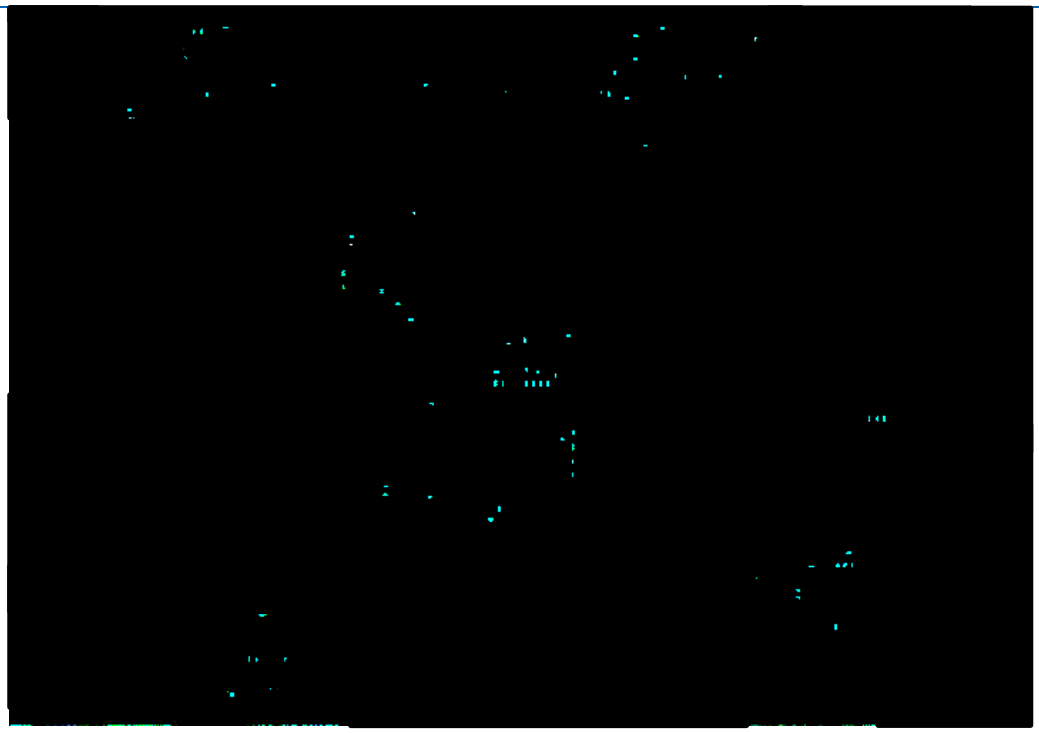
Bromine
Not detected
Lead



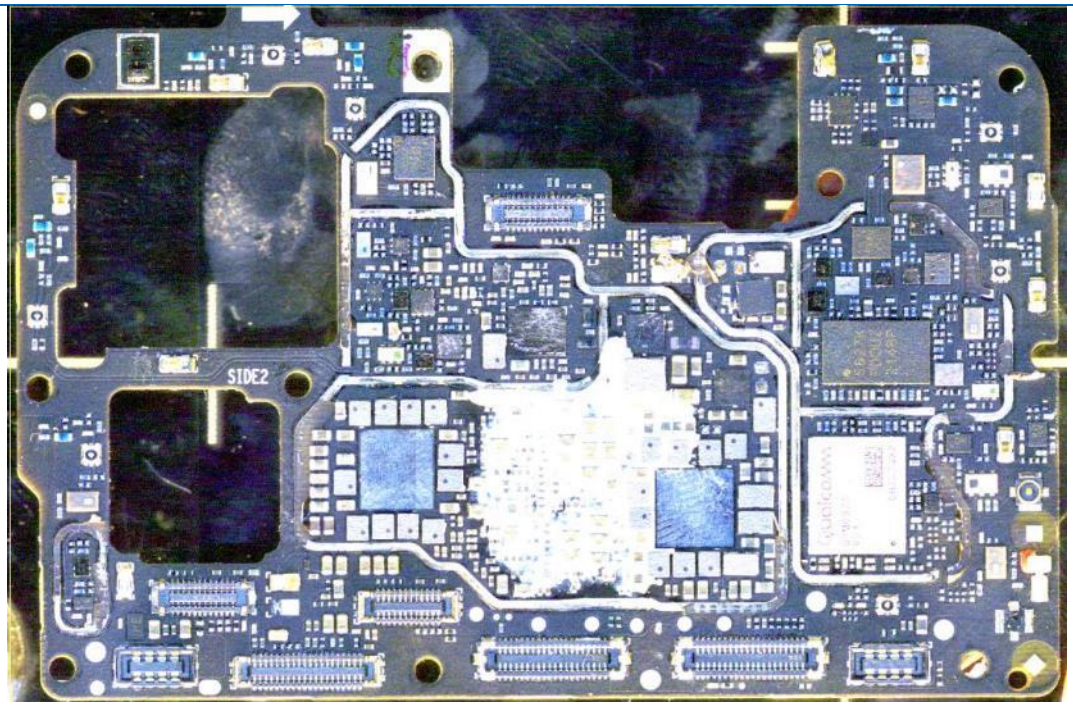
Results x,y Scan Sample FI2477-01 Top



Bromine
Not detected
Lead



Results x,y Scan Sample FI2477-01 Bottom



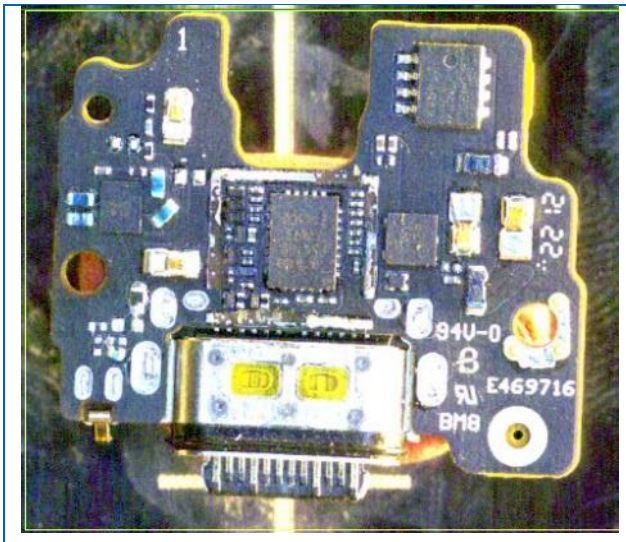
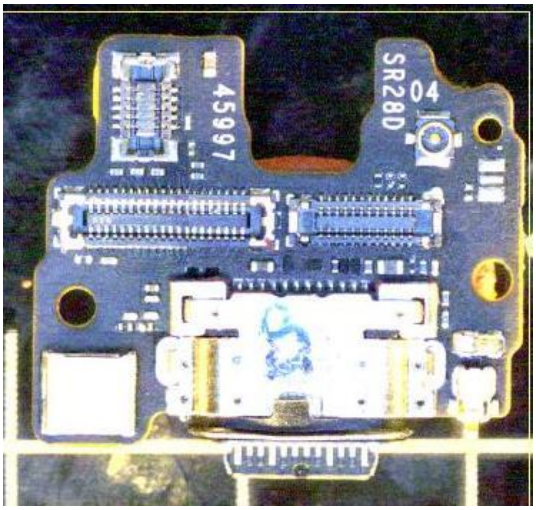
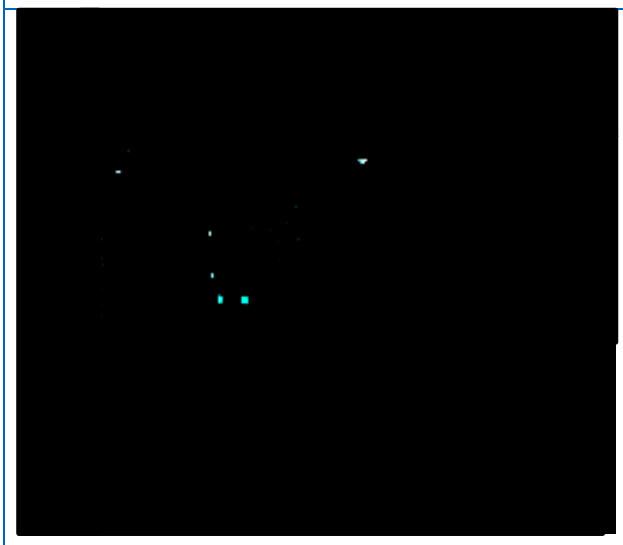
Bromine

Not detected

Lead



Results x,y Scan Sample FI2481-03

	
Bromine	
Not detected	Not detected
Lead	
	

5 Summary REACH 1907/2006/EC screening results

According to §33 Reach information needs to be provided within the supply chain if the concentration of a SVHC substance calculated for the article is higher than 0.1 %. The table below summarizes the organic substances detected with concentrations > 0.1% calculated for the articles according to SVHC substance list dated July 08th, 2021, Annex XIV List dated February 07th, 2020 and Annex XVII List dated December 15th, 2021.

Samples summarized in Chapter 7 were selected based on a risk assessment. The samples were investigated for selected organic parameters as listed in Chapters 5.2 and 5.3. The detectable concentration of REACH substances varies depending on the substance, the fraction composition and the sample weight.

For inorganic parameters please refer to Chapter 2 and Chapter 3. Chemical elements identified in the XRF Screening could represent REACH substances as listed in Chapters 5.2. and 5.3. For the speciation of these substances, further testing could be required.

5.1 Identified SVHC, Annex XIV and Annex XVII substances in Article

The following substances were detected in the samples.

Article	Sample Number	REACH SVHC Substance Detected	REACH Detected Annex XIV Substance	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction[1] (% w/w)	Substance concentration in article[2] (% w/w)	SVHC > 0.1% Reporting required?[2] (Y/N/Risk)
22-167 Motorola, Smart Phone Model #:XT2243 series	FK1113	4,4'-Diaminodiphenylmethane (MDA)	4,4'-Diaminodiphenylmethane (MDA)	-	0.025	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.125	<0.001	NA
	FK1114	-	-	Diisocyanates (Entry 74)	0.017	<0.001	NA
		-	-	Diisocyanates (Entry 74)	0.057	<0.001	NA
	FK1115	-	-	Diisocyanates (Entry 74)	0.006	<0.001	NA
	FK1116	4-tert-butylphenol[4]	-	-	0.001	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.013	<0.001	NA
	FK1117	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	-	-	0.003	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.025	<0.001	NA
	FK1118	-	-	-			
	FK1119	-	-	-			

Article	Sample Number	REACH SVHC Substance Detected	REACH Detected Annex XIV Substance	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction[1)] (% w/w)	Substance concentration in article[2)] (% w/w)	SVHC > 0.1% Reporting required?[2)] (Y/N/Risk)
22-167 Motorola, Smart Phone Model #:XT2243 series	FK1120	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	-	-	0.002	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.016	<0.001	NA
	FK1121	-	-	Diisocyanates (Entry 74)	0.010	<0.001	NA
	FK1122	-	-	Diisocyanates (Entry 74)	0.007	<0.001	NA
	FK1123	-	-	Diisocyanates (Entry 74)	0.008	<0.001	NA
		-	-	Diisocyanates (Entry 74)	0.029	<0.001	NA
	FK1124	-	-	-			
	FK1125	-	-	-			
	FK1126	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.142	<0.001	N[3)]
	FK1127	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.043	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.009	<0.001	NA
	FK1128	-	-	-			
	FK1129	4-tert-butylphenol[4)]	-	-	0.028	<0.001	N

Article	Sample Number	REACH SVHC Substance Detected	REACH Detected Annex XIV Substance	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction[1] (% w/w)	Substance concentration in article[2] (% w/w)	SVHC > 0.1% Reporting required?[2] (Y/N/Risk)
22-167 Motorola, Smart Phone Model #:XT2243 series	FK1130	4-tert-butylphenol[4]	-	-	0.013	<0.001	N
		2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one)	-	-	0.021	<0.001	N
	FK1131	4-tert-butylphenol[4]	-	-	0.044	<0.001	N
	FK1132	-	-	-			
	FK1133	4-tert-butylphenol[4]	-	-	0.016	<0.001	N
		-	-	Diisocyanates (Entry 74)	0.009	<0.001	NA
	FK1134	4-tert-butylphenol[4]	-	-	0.014	<0.001	N
	FK1135	-	-	-			
	FK1136	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.797	0.017	N[3]
	FK1137	4-tert-butylphenol[4]	-	-	0.005	<0.001	N
	FK1138	-	-	-			
	FK1139	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one)	-	-	0.001	<0.001	N
	FK1140	-	-	-			
	FK1141	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one)	-	-	0.005	<0.001	N
	FK1142	1,3-propanesultone	-	1,3-propanesultone (Entry 28)	0.223	0.054	N[3]

[1] For the composition of fractions please refer to Chapter 7. Please note, that for the composition of fractions only samples with a certain minimum weight can be used properly. The minimum weight is 0.02g for soft materials and 0.01g for hard materials.Materials which are consumed completely during previous analyses can not be considered as well.
[2] The results refer to the article considered as functional unit as described in the first column of this table. For the assignment on homogenous material level, further testing could be required. For samples with low weights, the detection limit of 0.1% SVHC in homogeneus material may not be achieved.

* For the conditions of restriction please refer to "List of REACH Annex XVII substances" of this test report of for more detailed information refer directly to REACH Regulation (1907/2006/EC) Annex XVII in EUR -Lex Website

[3)] Reporting is required on the homogeneous material level.

[4)] Depending on the manufacturing process of 4-tert-butylphenol a certain ratio of 3-tert-butylphenol may also be present

5.2 List of SVHC and Annex XIV substances

orthoboric acid, sodium salt[1)]	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) [6)]
Glutaral[1)]	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17) [8)]
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers[6)]	4,4'-(1-methylpropylidene)bisphenol (BPB)
1,4-dioxane	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)
Bis(2-(2-methoxyethoxy)ethyl) ether	Dioctyltin dilAurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety[2)]
Butyl 4-hydroxybenzoate	Dibutylbis(pentane-2,4-dionato-O,O')tin[2)]
1-vinylimidazole[1)]	2-methylimidazole[1)]
Perfluorobutane sulfonic acid (PFBS) and its salts[1)]	Diisohexyl phthalate
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides[1)]	2-methoxyethyl acetate
4-tert-butylphenol	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)[6)]
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one[1)]	2,2-bis(4'-hydroxyphenyl)-4-methylpentane[1)]
Benzo[k]fluoranthene	Fluoranthene
Phenanthrene	Pyrene
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	Benzo[ghi]perylene
Decamethylcyclopentasiloxane (D5)	Dicyclohexyl phthalate
Disodium octaborate[1)]	Dodecamethylcyclohexasiloxane (D6)
Ethylenediamine[1)]	Lead[4)]
Octamethylcyclotetrasiloxane (D4)	Terphenyl, hydrogenated
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”™)	Benz[a]anthracene
Cadmium carbonate[2)]	Cadmium hydroxide[2)]
Cadmium nitrate[2)]	Chrysene
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[1)]	Perfluorohexane-1-sulphonic acid and its salts[1)]
4,4'-isopropylidenediphenol (BPA)	4-heptylphenol, branched and linear
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts[1)]	Nonadecafluorodecanoic acid[1)]
Decanoic acid, nonadecafluoro-, sodium salt[1)]	Ammonium nonadecafluorodecanoate[1)]

p-(1,1-dimethylpropyl)phenol	Benzo[def]chrysene (Benzo[a]pyrene)
1,3-propanesultone	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)*
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)*	Nitrobenzene
Perfluorononan-1-oic-acid and its sodium and ammonium salts[1)]	Perfluorononan-1-oic-acid[1)]
Sodium salts of perfluorononan-1-oic-acid[1)]	Ammonium salts of perfluorononan-1-oic-acid[1)]
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters*	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1][1)]*
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)*	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2][1)]*
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)[1)]	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)*
Cadmium sulphate[2)]	Cadmium fluoride[2)]
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear*	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)[1)]
Sodium perborate, perboric acid, sodium salt[1)*]	Cadmium chloride[2)]
Sodium perborate[1)]	Perboric acid, sodium salt[1)]
Cadmium sulphide[2)]	Sodium peroxometaborate[1)]*
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)[1)]	Dihexyl phthalate*
Imidazolidine-2-thione (2-imidazoline-2-thiol)	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)[1)]
Trixylyl phosphate*	Lead di(acetate)[2)]
Ammonium pentadecafluorooctanoate (APFO)[1)]	4-Nonylphenol, branched and linear, ethoxylated [6)]*
Cadmium oxide[2)]	Cadmium[2)]
Pentadecafluorooctanoic acid (PFOA)[1)]	Dipentyl phthalate (DPP)*
1,2-diethoxyethane	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear*
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine[1)]	1-bromopropane (n-propyl bromide)*
4,4'-oxydianiline and its salts	4,4'-methylenedi-o-toluidine
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [7)]*	4,4'-oxydianiline
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	4-aminoazobenzene
6-methoxy-m-toluidine (p-cresidine)	4-Nonylphenol, branched and linear
Acetic acid, lead salt, basic[2)]	[Phthalato(2-)]dioxotrilead[2)]
Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	Biphenyl-4-ylamine
Cyclohexane-1,2-dicarboxylic anhydride	cis-cyclohexane-1,2-dicarboxylic anhydride
trans-cyclohexane-1,2-dicarboxylic anhydride	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)[1)]
Dibutyltin dichloride (DBTC)[2)]	Diethyl sulphate
Diisopentyl phthalate*	Dimethyl sulphate

Dinoseb (6-sec-butyl-2,4-dinitrophenol)	Dioxobis(stearato)trilead[2)]
Fatty acids, C16-18, lead salts[2)]	Furan
Henicosafluoroundecanoic acid[1)]	Heptacosafluorotetradecanoic acid[1)]
Hexahydromethylphthalic anhydride	Hexahydro-1-methylphthalic anhydride
Hexahydro-3-methylphthalic anhydride	Hexahydro-4-methylphthalic anhydride
Lead cyanamidate[2)]	Lead bis(tetrafluoroborate)[2)]
Lead monoxide (lead oxide) [2)]	Lead dinitrate[2)]
Lead titanium trioxide[2)]	Lead oxide sulfate[2)]
Methoxyacetic acid	Lead titanium zirconium oxide[2)]
N,N-dimethylformamide	Methyloxirane (Propylene oxide)[1)]
N-pentyl-isopentylphthalate*	N-methylacetamide
o-toluidine	o-aminoazotoluene
Pentacosafluorotridecanoic acid[1)]	Orange lead (lead tetroxide) [2)]
Pyrochlore, antimony lead yellow[2)]	Pentalead tetraoxide sulphate[2)]
Silicic acid, lead salt[2)]	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped[2)]
Tetraethyllead[2)]	Sulfurous acid, lead salt, dibasic[2)]
Tricosafluorododecanoic acid[1)]	Tetralead trioxide sulphate[2)]
Trilead dioxide phosphonate[2)]	Trilead bis(carbonate) dihydroxide[2)]
1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol[1)]
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)[1)]	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)[1)]
Formamide[1)]	Diboron trioxide[1)]
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	Lead(II) bis(methanesulfonate)[2)]
1,2-dichloroethane*	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)[1)]
2-Methoxyaniline, o-Anisidine	2,2'-dichloro-4,4'-methylenedianiline*
Aluminosilicate Refractory Ceramic Fibres[5)]	4-(1,1,3,3-tetramethylbutyl)phenol
Bis(2-methoxyethyl) ether*	Arsenic acid[2)]*
Calcium arsenate[2)]	Bis(2-methoxyethyl) phthalate*
Formaldehyde, oligomeric reaction products with aniline*	Dichromium tris(chromate)[2,3)]*
Lead dipicrate[2)]	Lead diazide, Lead azide[2)]
N,N-dimethylacetamide	Lead styphnate[2)]
Phenolphthalein	Pentazinc chromate octahydroxide[2,3)]*
Trilead diarsenate[2)]	Potassium hydroxyoctaoxodizincatedichromate[2,3)]*

1,2,3-trichloropropane	Zirconia Aluminosilicate Refractory Ceramic Fibres[5)]
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters*	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich*
2-ethoxyethyl acetate	1-Methyl-2-pyrrolidone
Strontium chromate[2,3)]*	Hydrazine[1)]
2-methoxyethanol	2-ethoxyethanol
Dichromic acid[2,3)]	Acids generated from chromium trioxide and their oligomers[2,3)]*
Chromic acid[2,3)]	Oligomers of chromic acid and dichromic acid[2,3)]
Cobalt(II) carbonate[2)]	Chromium trioxide[2,3)]*
Cobalt(II) dinitrate[2)]	Cobalt(II) diacetate[2)]
Ammonium dichromate[2,3)]*	Cobalt(II) sulphate[2)]
Boric acid, crude natural[1)]	Boric acid[1)]
Disodium tetraborate, anhydrous[1)]	Potassium chromate[2,3)]*
Potassium dichromate[2,3)]*	Sodium chromate[2,3)]*
Tetraboron disodium heptaoxide, hydrate[1)]	Trichloroethylene*
Acrylamide	2,4-dinitrotoluene*
Anthracene oil*	Anthracene oil, anthracene paste
Anthracene oil, anthracene paste, anthracene fraction	Anthracene oil, anthracene paste, distn. lights
Anthracene oil, anthracene-low	Diisobutyl phthalate (DIBP)*
Lead chromate[2)]*	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)[2)]*
Lead sulfochromate yellow (C.I. Pigment Yellow 34)[2)]*	Pitch, coal tar, high-temp.*
Tris(2-chloroethyl) phosphate*	4,4'- Diaminodiphenylmethane (MDA)*
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)*	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) [8)]
Anthracene	Benzyl butyl phthalate (BBP)*
Bis (2-ethylhexyl)phthalate (DEHP)*	Bis(tributyltin) oxide (TBTO)
Cobalt dichloride[2)]	Diarsenic pentaoxide[2)]*
Diarsenic trioxide[2)]*	Dibutyl phthalate (DBP)*
Hexabromocyclododecane (HBCDD)*	Triethyl arsenate[2)]
Lead hydrogen arsenate[2)]	Sodium dichromate[2,3)]*

[1)] Not tested

[2)] Relevant compounds based on XRF Screening test results (selected chemical elements). For the speciation of the substances, further testing could be required.

[2, 3)] Relevant compounds based on XRF Screening and UV-Vis test results (selected chemical elements)

[4)] Lead has been added to the list of Substances of Very High Concern in its metallic form. This does include alloys but not lead-based glass and ceramics.

[5)] Relevant compounds based on XRF Screening: test results for Al and Si. For a statement regarding the actual presence of asbestos further testing is required.

[6)] One isomer was tested as representative for substance group.

[7)] Four isomers were tested as representative for substance group

[8)] *The detection limit for SCCP and MCCP in homogenous materials is 0.4%. For samples in Fractions the detectable concentration is higher depending on fraction composition and sample weight. For technical reasons, a differentiation between short and medium chain chlorinated paraffins is not possible. Further chemical analysis is necessary for differentiation.*

* Substance also included in Annex XIV of REACH ("Authorisation List")

5.3 List of REACH Annex XVII substances

75. (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008 [1)] (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council [1)] (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex. [1)]	**76.** *N,N*-dimethylformamide
73. (3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silanetriol Any of its mono-, di- or tri-O-(alkyl)derivatives (TDFAs) [1)]	**74.** Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length [7)]
71. 1-methyl-2-pyrrolidone (NMP)	**72.** The substances listed in column 1 of the Table in Appendix 12 [1) 6)]
69. Methanol [1)]	**70.** Octamethylcyclotetrasiloxane (D4) [1)] Decamethylcyclopentasiloxane (D5) [1)]
67. Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) [8)]	**68.** Perfluorooctanoic acid [8)]
65. Inorganic ammonium salts [1)]	**66.** 4,4'-isopropylidenediphenol (Bisphenol A) [1)]
63. Lead and its compounds [1) 3)]	**64.** 1,4-Dichlorobenzene [1)]
61. Dimethylfumarate (DMF)	**62.** Phenylmercury neodecanoate[3)] Phenylmercury octanoate[3)] Phenylmercury propionate[3)] Phenylmercury acetate[3)] Phenylmercury 2-ethylhexanoate[3)]
59. Dichloromethane [1)]	**60.** Acrylamide [1)]
57. Cyclohexane	**58.** Ammonium nitrate (AN) [1)]
55. 2-(2-butoxyethoxy)ethanol (DEGBE)[1)]	**56.** Methylenediphenyl diisocyanate (MDI) including the following specific isomers [5)]: (a) 4,4'-Methylenediphenyl diisocyanate (b) 2,4'-Methylenediphenyl diisocyanate (c) 2,2'-Methylenediphenyl diisocyanate
52. (a) Di-'isononyl' phthalate (DINP) [1)] (b) Di-'isodecyl' phthalate (DIDP) [1)] (c) Di-n-octyl phthalate (DNOP) [1)] (d) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich [1)] (e) 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich [1)]	**54.** 2-(2-methoxyethoxy)ethanol (DEGME)
50. Polycyclic-aromatic hydrocarbons (PAH) (a) Benzo[a]pyrene (BaP) (b) Benzo[e]pyrene (BeP) (c) Benzo[a]anthracene (BaA) (d) Chrysen (CHR) (e) Benzo[b]fluoranthene (BbFA) (f) Benzo[j]fluoranthene (BjFA) (g) Benzo[k]fluoranthene (BkFA) (h) Dibenzo[a,h]anthracene (DBAhA)	**51.** (a) Bis (2-ethylhexyl) phthalate (DEHP) [1)] (b) Dibutyl phthalate (DBP) [1)] (c) Benzyl butyl phthalate (BBP) [1)]
48. Toluene	**49.** Trichlorobenzene
	47. Chromium VI compounds [1)]
46. (a) Nonylphenol [1) 6)]	**46a.** Nonylphenol ethoxylates [1) 6)]

(b) Nonylphenol ethoxylates [1) 6)]	
43. Azocolourants and Azodyes [1) 6)]	**45.** Diphenylether, octabromo derivative
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.[1)]	**41.** Hexachloroethane[1)]
37. Pentachloroethane	**38.** 1,1-Dichloroethene
35. 1,1,2,2-Tetrachloroethane	**36.** 1,1,1,2-Tetrachloroethane
32. Chloroform[3)]	**34.** 1,1,2-Trichloroethane
30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B or toxic to reproduction category 1 or 2 [7)]	**31.** (a) Creosote; wash oil [1)] (b) Creosote oil; wash oil [1)] (c) Distillates (coal tar), naphthalene oils; naphthalene oil [1)] (d) Creosote oil, acenaphthene fraction; wash oil [1)] (e) Distillates (coal tar), upper; heavy anthracene oil [1)] (f) Anthracene oil [1)] (g) Tar acids, coal, crude; crude phenols [1)] (h) Creosote, wood [1)] (i) Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline [1)]
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B or carcinogen category 1 or 2 [7)]	**29.** Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B or mutagen category 1 or 2 [7)]
26. Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers Trade name: DBBT [2) 3)]	**27.** Nickel and ist compounds[3)]
24. Monomethyl — tetrachlorodiphenyl methane Trade name: Ugilec 141 [2) 3)]	**25.** Monomethyl-dichloro-diphenyl methane Trade name: Ugilec 121 [2) 3)]
22. Pentachlorophenol and its salts and esters [3) 8)]	**23.** Cadmium and its compounds [3)]
20. Organostannic compounds [3)]	**21.** Di-µ-oxo-di-n-butylstanniohydroxyborane/ Dibutyltin hydrogen borate $C_8H_{19}BO_3Sn$ (DBB) [3)]
18a. Mercury [1) 3)]	**19.** Arsenic compounds [1) 3)]
17. Lead sulphates [3)]: (a) $PbSO_4$ (b) Pb_xSO_4	**18.** Mercury compounds [1) 3)]
15. 4-Aminobiphenyl xenylamine	**16.** Lead carbonates [3)]: (a) Neutral anhydrous carbonate ($PbCO_3$) (b) Trilead-bis(carbonate)-dihydroxide 2Pb CO_3 -$Pb(OH)_2$
13. Benzidine and ist salts [7)]	**14.** 4-Nitrobiphenyl
11. Volatile esters of bromoacetic acids[1)]: (a) Methyl bromoacetate (b) Ethyl bromoacetate (c) Propyl bromoacetate (d) Butyl bromoacetate	**12.** 2-Naphthylamine and ist salts [7)]
9. (a) Soap bark powder (Quillaja saponaria) and its derivatives containing saponines [1)] (b) Powder of the roots of Helleborus viridis and Helleborus niger [1)] (c) Powder of the roots of Veratrum album and Veratrum nigrum [1)] (d) Benzidine and/or its derivatives [1)] (e) o-Nitrobenzaldehyde C [1)] (f) Wood powder [1)]	**10.** (a) Ammonium sulphide [1)] (b) Ammonium hydrogen sulphide [1)] (c) Ammonium polysulphide [1)]
7. Tris(aziridinyl)phosphinoxide [1) 6)]	**8.** Polybromobiphenyls; Polybrominatedbiphenyls (PBB)[1)]

	[6]
5. Benzene	**6.** Asbestos fibres [4] (a) Crocidolite (b) Amosite (c) Anthophyllite (d) Actinolite (e) Tremolite (f) Chrysotile
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008[1]	**4.** Tris (2,3 dibromopropyl) phosphate [1] [6]
1. Polychlorinated terphenyls (PCTs)[3] [7]	**2.** Chloroethene (vinyl chloride)[1]

[1] N/A the restriction does not apply to this article
[2] Not tested
[3] Relevant compounds based on XRF Screening test results (selected chemical elements). For the speciation of the substances, further testing could be required. Depending on the actual nature of the compound there is a risk of REACH Annex XVII non compliance.
[4] Relevant compounds based on XRF Screening: test results for Al and Si. For a statement regarding the actual presence of asbestos further testing is required.
[5] One isomer was tested as representative for substance group.
[6] Applies to textile articles
[7] Selected substances were evaluated as representatives
[9] See Chapter " Global Compliance Acceptance Criteria (banned and controlled Substances)"
[8] Regulation (EU) No 2020/2096: entries 22, 67, 68 have been deleted (more severe restrictions are laid down for those substances in Regulation (EU) 2019/1021 POP)

6 Test Results PAH

No PAH (acc. to 1907/2006/EC REACH Annex XVII) relevant samples were identified

7 Composition of fraction samples

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.070	FK1113	FI2463-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 7	0.01%	0.021
				FI2463-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 5	0.01%	0.024
				FI2463-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 6	0.01%	0.025

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.161	FK1114	FI2471-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Metallic shock pads 6	0.02%	0.032
				FI2463-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 8	0.02%	0.043
				FI2463-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Shock pads 1-8, Shockpad 3	0.05%	0.086

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.152	FK1115	FI2461-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 2	0.02%	0.039
				FI2464-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Black glue strip	0.02%	0.039
				FI2465-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 3	0.04%	0.074

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.289	FK1116	FI2493-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Display flex, Large black and metallic glue strip	0.06%	0.103
				FI2464-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Metallic Glue strip	0.08%	0.139
				FI2496-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Metal housing, Metallic glue strip	0.03%	0.047

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.805	FK1117	FI2461-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 5	0.14%	0.245
				FI2461-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 1	0.16%	0.272
				FI2461-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue 1-5, Black glue 3	0.17%	0.288
Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.071	FK1118	FI2479-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable, Black cable jacket	0.02%	0.027
				FI2479-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black connection cable, White cable jacket	0.03%	0.044

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.098	FK1119	FI2480-03	22-167 Motorola, Smart Phone Model #:XT2243 series, White connection cable, White cable jacket 2	0.03%	0.059
				FI2480-01	22-167 Motorola, Smart Phone Model #:XT2243 series, White connection cable, White cable jacket 1	0.02%	0.039

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.124	FK1120	FI2465-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 6	0.01%	0.020
				FI2465-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 1	0.02%	0.033
				FI2465-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 4	0.04%	0.071

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	1.327	FK1121	FI2494-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Golden glue foil	0.37%	0.641
				FI2494-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Black glue foil	0.40%	0.686

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	1.254	FK1122	FI2469-01	22-167 Motorola, Smart Phone Model #:XT2243 series, NFC Flex,Black glue foil	0.32%	0.550
				FI2465-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Black glue strip 1-8, Black glue strip 7	0.34%	0.586
				FI2492-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Front glass, Black glue	0.07%	0.118

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	1.449	FK1123	FI2460-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Black foil strip 1+2,Black foil strip 2	0.35%	0.602
				FI2460-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black foil strip 1+2, Black foil strip 1	0.49%	0.847

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]

22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	0.436	FK1124	FI2472-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Thermal paste 1+2	0.25%	0.436

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.100	FK1125	FI2483-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, White glue strip	0.01%	0.023
				FI2483-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Blue glue strips	0.02%	0.036
				FI2483-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Black glue strip	0.02%	0.041

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.157	FK1126	FI2483-13	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Clear glue strips	0.03%	0.048
				FI2483-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Green glue strips	0.06%	0.109

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.578	FK1127	FI2483-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Black rubber strips	0.06%	0.111

				FI2483-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Yellow glue strips 2	0.12%	0.214
				FI2483-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Yellow glue strips 1	0.15%	0.253

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.055	FK1128	FI2486-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Membrane	0.02%	0.030
				FI2464-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Light guide	0.01%	0.025

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.284	FK1129	FI2474-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2,Blackplastic housing	0.01%	0.021
				FI2475-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Black plastic housing	0.03%	0.057

				FI2476-17	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic rings	0.01%	0.009
				FI2485-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Sensor, Black plastic housing	0.02%	0.030
				FI2487-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Black plastic parts	0.02%	0.038
				FI2488-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic part	0.02%	0.027
				FI2488-02	22-167 Motorola, Smart Phone Model #:XT2243 series, White plastic part	0.03%	0.058

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.250	FK1130	FI2473-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black plastic frame 1	0.01%	0.023
				FI2473-10	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black plastic frame 2	0.03%	0.058
				FI2473-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black plastic frame 3	0.02%	0.038

				FI2473-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Black plastic frame 4	0.03%	0.046
				FI2474-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2,Blackplastic frame	0.02%	0.038
				FI2475-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Black plastic frame1	0.03%	0.047

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.402	FK1131	FI2476-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic frame 1	0.03%	0.055
				FI2476-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic frame 2	0.04%	0.063
				FI2476-11	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic frame3	0.05%	0.078
				FI2476-14	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic frame 4	0.05%	0.079

				FI2458-04	22-167 Motorola, Smart Phone Model #:XT2243 series, SIM Card holder, Blackplastic frame	0.07%	0.127

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	0.103	FK1132	FI2486-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, White granule	0.06%	0.103

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	1.767	FK1133	FI2464-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Camera cover, Clear plastic cover	0.23%	0.388
				FI2494-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Display foils with LED, Clear Foil	0.80%	1.379

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.347	0.238	FK1134	FI2475-09	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, Clear lenses	0.02%	0.040
				FI2473-13	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, Clear lenses	0.04%	0.068
				FI2476-19	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Clear lenses	0.08%	0.130

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	0.198	FK1135	FI2483-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Black plastic cover	0.11%	0.198

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	3.715	FK1136	FI2483-16	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, White foil	2.16%	3.715

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	5.781	FK1137	FI2476-18	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Black plastic housing	0.10%	0.175
				FI2486-05	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Black plastic housing	0.29%	0.497
				FI2470-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic cover 1, Black plastic cover	1.19%	2.055
				FI2470-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Black plastic cover 2	0.57%	0.978
				FI2496-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Metal housing, Gray plastic inlay	1.20%	2.076

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	0.374	FK1138	FI2486-17	22-167 Motorola, Smart Phone Model #:XT2243 series, Bottom speaker, Flex	0.01%	0.023
				FI2487-15	22-167 Motorola, Smart Phone Model #:XT2243 series, Top speaker Flex	0.03%	0.048
				FI2478-06	22-167 Motorola, Smart Phone Model #:XT2243 series, Vibra call, Flex	0.06%	0.100
				FI2485-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Sensor, Flex	0.06%	0.101
				FI2467-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Flashllight PWB	0.06%	0.102

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	2.196	FK1139	FI2476-08	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, Flex	0.07%	0.127
				FI2490-02	22-167 Motorola, Smart Phone Model #:XT2243 series, Button flex, Flex	0.07%	0.127
				FI2482-00	22-167 Motorola, Smart Phone Model #:XT2243 series, Sub PWB 2	0.08%	0.145
				FI2475-12	22-167 Motorola, Smart Phone Model #:XT2243 series, Front camera, PWB	0.09%	0.149
				FI2474-07	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 2, PWB	0.09%	0.150
				FI2473-15	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 1, PWB	0.09%	0.150

				FI2469-02	22-167 Motorola, Smart Phone Model #:XT2243 series, NFC Flex, Flex	0.30%	0.514
				FI2476-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Backside camera 3, PWB	0.48%	0.834

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	12.253	FK1140	FI2493-04	22-167 Motorola, Smart Phone Model #:XT2243 series, Display flex, Flex	0.66%	1.142
				FI2484-09	22-167 Motorola, Smart Phone Model #:XT2243 series, PWB Connection/Sim card flex, Flex	0.91%	1.575
				FI2481-03	22-167 Motorola, Smart Phone Model #:XT2243 series, Sub PWB 1, PWB	0.67%	1.155
				FI2477-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Main PWB, PWB	4.86%	8.381

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	1.794	FK1141	FI2483-01	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, PWB	1.04%	1.794

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
22-167 Motorola, Smart Phone Model #:XT2243 series	172.35	41.666	FK1142	FI2483-17	22-167 Motorola, Smart Phone Model #:XT2243 series, Battery, Carbon coating	24.18%	41.666

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