

**VDE Prüfbericht / VDE Test Report**

Prüfbericht Nr. Report No.	323732-TL7-1
VDE-Aktenzeichen VDE File No.	5022428-9021-0118/323732
Ausstellungsdatum Date of issue	2024-11-20
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüf-ort / 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 V6 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)	XT2521 Series
Bemessungsdaten Ratings	

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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. <i>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.</i>					



Zustand des Prüfmusters <i>Test sample condition</i>:	☒ Unbeschädigtes Prüfmuster <i>Non-damaged sample</i>
	Bemerkung / <i>Remark</i> :
Wareneingang Prüfmuster <i>Sample entry date</i>:	2024-09-18
Datum der Durchführung der Prüfungen <i>Date (s) of performance of tests</i>:	2024-09-18 bis/to 2024-11-20

Geprüft und ausgestellt von: <i>Tested by</i>		
Name / <i>Name</i> , Unterschrift / <i>Signature</i>:	Annisa Harahap (Autorisierung des Prüfberichtes <i>Authorization of Test Report</i>)	
Funktion / <i>Function</i>	Prüfingenieur / <i>Testing engineer</i>	
Überprüft von / <i>Approved by</i>:		
Name / <i>Name</i> , Unterschrift / <i>Signature</i>:	Annkatriin Kuhl	
Funktion / <i>Function</i>	Fachzertifizierer / <i>Technical Certification Officer</i>	

Abschließendes Prüfergebnis <i>Final Verdict</i> :	☒ P	☐ F
Bemerkung / <i>Remark</i>:		

Durchgeführte Prüfungen / <i>Performed tests</i>			
Abschnitt <i>Clause</i>	Prüfanforderungen / <i>Requirement + Test</i>	Ergebnis – Anmerkung <i>Result – Remark</i>	Beurteilung <i>Verdict</i>
	Motorola W18 V6	Substances detected	
	2011/65/EU & 2015/863/EU(RoHS))	Pass	P
	1907/2006/EC § 33 (REACH, SVHC)	Substances detected	No 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 / <i>Supplementary information</i> :			
* 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 lead.			



Allgemeine Bemerkungen / *General Remarks:*

Konformitätserklärung / *Conformity statement:*

Die VDE-Entscheidungsregel für die Konformitätserklärung entspricht dem IEC Guide 115:2023 /

The VDE decision rule for the statement of conformity is in accordance with IEC Guide 115:2023

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
PBB, PBDE	High Performance Liquid Chromatography (HPLC) Thermo Scientific (Dionex) UltiMate 3000 Inv. No. 5200456	IEC 62321-6:2015
Cr(VI)	Ultraviolet Spectrometry (UV-Vis) Agilent Technologies Cary 8454 UV-Vis Inv. No. 1150611	IEC 62321-7-1:2015
Pb, Cd, Cr Quantification in Polymers/ Alloys/PWBs	Inductively coupled plasma atomic emission spectroscopy (ICP-AES) Spectro Blue Inv. No. 5200429	IEC 62321-5:2013
Pb, Br Localization	Energy-Dispersive X-Ray Fluorescence (EDXRF) Spectro Midex (M1) Inv. No. 1150728 Spectro Midex (M3) Inv. No. 1150774 Spectro Midex (M4) Inv. No. 1150776 Bruker M4 Tornado Inv. No. 1150719	IEC 62321-3-1:2013
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	Inhouse method according to DIN TS 51012:2020-4
REACH SVHC / Annex XIV / Annex XVII Substances screening	Gas chromatography with mass spectrometric detection (GC-MSD) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-7) Inv. No. 5211163 ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-5) Inv. No. 5211095 ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-4) Inv. No. 5211053	Inhouse method according to DIN TS 51012:2020-4
Phthalates	Gas chromatography with mass spectrometric detection (GC-MSD) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-7) Inv. No. 5211163 ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-5) Inv. No. 5211095 ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-4) Inv. No. 5211053	Inhouse Method
PAH	Gas chromatography with mass spectrometric detection (GC-MSD) ThermoFisher SCIENTIFIC TRACE1300 and ISQ7000 (GC-7) Inv. No. 5211163 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



PFAS	Liquid chromatography with mass spectrometric detection (LC-MS) ThermoFisher SCIENTIFIC HPLC Ultimate 3000 and TSQ Quantis (LC-MS) Inv. No. 1150726	Inhouse Method
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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 6
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 <u>wood products</u> as a preservative [3]	For indicator element As see chapter 3 ¹⁾
Bisphenol-A [4]	n.d. see chapter 6
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.d. see chapter 3
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 6
Diisobutyl Phthalate (DIBP), Dibutyl Phthalate (DBP), Benzyl Butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP)	detected see chapter 3, 6
Diisononyl Phthalate (DINP)	n.d. see chapter 3, 6
Formaldehyde	n.a. (no Composite Wood Products, textiles, washing or cleaning agents, cosmetic care products)
Lead and lead compounds	detected see chapter 3 ¹⁾
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 6
Nonylphenol and its isomer mixtures [7]	n.d. see chapter 6



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 Perchlorate [5]	n.a. (no perchlorate Batteries)
Perfluoro alkyl sulfonates (PFAS), and derivatives (including PFOS)	n.d. see chapter 8
Perfluorooctanoic Acids	n.t.
Persistent 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 and 6
Certain short and medium chained chlorinated paraffins	n.d. (SCCP, MCCP - see chapter 3)
REACH Authorised and Restricted Substances not otherwise listed	detected , see Chapter 6
REACH Authorised and Restricted Substances not otherwise listed – Entry 20 Organostannic compounds [6]	Sn < 0.1% ¹⁾ GK2283-01 (0.139%) GK2283-02 (0.150%) GK2283-03 (0.173%) GK2283-04 (0.145%) GK2297-01 (0.184%)
REACH Authorised and Restricted Substances not otherwise listed – Entry 21 Di-μ-oxo-di-n-butylstanniohydroxyborane [6]/ Dibutyltin hydrogen borate C ₈ H ₁₉ BO ₃ Sn (DBB)	Sn < 0.04 % ¹⁾ (DBB < 0.1%) GK2283-01 (0.139%) GK2283-02 (0.150%) GK2283-03 (0.173%) GK2283-04 (0.145%) GK2297-01 (0.184%) GK2297-02 (0.075%)
REACH Authorised and Restricted Substances not otherwise listed – Entry 50 Polycyclic-aromatic hydrocarbons (PAH)	n.d. See Chapter 6
REACH Candidate List Substances not otherwise listed	detected , see chapter 6
Tris(2-chloroethyl)phosphate ("TCEP")	n.d. see chapter 6
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.

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Following materials of concern according to Motorola 12G02897W18 rev. V6 were identified that exceed the thresholds according to Appendix C Section 5 for controlled and banned substances.

2.2 Items that only use Homogeneous Materials

None

2.3 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
GK2292-14	24-258 Motorola, Smart Phone Model XT2521, Main PWB		PWB (100%) ²⁾	Pb	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	Pass, exemption applicable
GK2295-13	24-258 Motorola, Smart Phone Model XT2521, Battery, Flex grid		PWB (100%) ²⁾	Pb	Pb in glass or ceramic of electrical and electronic components Exemption 7(c)-I	Pass, exemption applicable
GK2298-07	24-258 Motorola, Smart Phone Model XT2521, Display connection flex		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



2.4 Phthalates in fractions

None



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. V6 Appendix C relevant compounds ¹⁾
GK2275-00	24-258 Motorola, Smart Phone Model XT2521, SIM card holder		0.410	0.22%				
GK2275-01	24-258 Motorola, Smart Phone Model XT2521, SIM card holder, Metal frame				56.10%		Main: Si S Cr Mn Fe Ni; Other: Al P Ti V Co Cu Zr Mo W Bi; Trace: Se Sn.	Reportable: Cr Fe Co Cu W Bi; Controlled: Ni.
GK2275-02	24-258 Motorola, Smart Phone Model XT2521, SIM card holder, Black plastic part				40.00%	PC	Other: Si P S Cl Ca Ti Fe; Trace: K Cr Ni Zn Sn.	Reportable: Fe;
GK2275-03	24-258 Motorola, Smart Phone Model XT2521, SIM card holder, Red sealing				3.66%	PUR	Other: Si P S Cl Ca Ti; Trace: Fe Ni Zn Sn Ba DNBP.	
GK2275-04	24-258 Motorola, Smart Phone Model XT2521, SIM card holder, Label				0.24%	PET 80% Acrylic 20%	Other: Si P Cl Ca Ti Ni; Trace: S Cr Fe Cu Zn Sn Sb.	
GK2276-00	24-258 Motorola, Smart Phone Model XT2521, Backside cover		9.476	4.99%				
GK2276-01	24-258 Motorola, Smart Phone Model XT2521, Backside cover, Soft cover				7.20%	TPU	Other: Si P Cl Ca Ti; Trace: S K Fe Ni Cu Zn Sn DNBP.	
GK2276-02	24-258 Motorola, Smart Phone Model XT2521, Backside cover, Logo				0.58%	PMMA 80% PUR 20%	Other: Si P Cl Ca Ti Sb; Trace: S K V Fe Ni Cu Zn Sn.	Reportable: Sb;
GK2276-03	24-258 Motorola, Smart Phone Model XT2521, Backside cover, Clear glue strip				0.11%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti; Trace: K Cr Fe Ni Cu Zn Sb.	
GK2276-04	24-258 Motorola, Smart Phone Model XT2521, Backside cover				92.12%	PC	Other: Si P Cl Ca Ti; Trace: S K Fe.	



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. V6 Appendix C relevant compounds ¹⁾
GK2277-00	24-258 Motorola,Smart Phone Model XT2521, Power button flex		0.257	0.14%				
GK2277-01	24-258 Motorola,Smart Phone Model XT2521, Power button flex				90.27%		Main: Al P Cu; Other: Si S Cl K Ca Fe Ni Zn Zr; Trace: Ti Mn Ga Ag Sn Sb Ba. See x, y – Scan (Chapter 5)	Reportable: Al Fe Cu Si P; Controlled: Ni.
GK2277-02	24-258 Motorola,Smart Phone Model XT2521, Power button flex, Soft plastic plate				9.73%	TPU	Other: Si P S Cl Ca Ti; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2278-00	24-258 Motorola,Smart Phone Model XT2521, Volume button		0.090	0.05%				
GK2278-01	24-258 Motorola,Smart Phone Model XT2521, Volume button				75.56%	PC	Other: Si P S Ca; Trace: Cl K Fe Ni Sn.	
GK2278-02	24-258 Motorola,Smart Phone Model XT2521, Volume button, Clear seal				24.44%	TPU	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Zn Sn.	
GK2279-00	24-258 Motorola,Smart Phone Model XT2521, NFC Flex		0.143	0.08%				
GK2279-01	24-258 Motorola,Smart Phone Model XT2521, NFC Flex, Black plastic part				6.99%	PC	Other: Si P S Cl Ca; Trace: Ti Cr Fe Ni Cu Zn Sn.	
GK2279-02	24-258 Motorola,Smart Phone Model XT2521, NFC Flex, Black glue strip				46.15%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti Fe Ni Cu Zn Ba; Trace: K V Cr Co Sr Zr Sn Sb.	Reportable: Fe Co Cu Zn Ba; Controlled: Ni.
GK2279-03	24-258 Motorola,Smart Phone Model XT2521, NFC Flex				46.85%		Main: Cu; Other: Si P S Cl Ca Ti Fe Co Ni Ba; Trace: K V Zn Sr Zr Sn Yb Au.	Reportable: Fe Co Cu Ba 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. V6 Appendix C relevant compounds ¹⁾
GK2280-00	24-258 Motorola, Smart Phone Model XT2521, Antenna flex 1-3		0.296	0.16%				
GK2280-01	24-258 Motorola, Smart Phone Model XT2521, Antenna flex 1				29.05%		Main: Cu; Other: Si P S Cl Ca Ti Co Ni Zr Yb; Trace: K Cr Fe Zn Ga Sn Sb.	Reportable: Co Cu Si P;
GK2280-02	24-258 Motorola, Smart Phone Model XT2521, Antenna flex 2				21.62%		Main: Cu; Other: Si P S Cl Ca Ti Fe Co Ni Zn Zr Yb; Trace: K Cr Ga Sn Sb Au.	Reportable: Fe Co Cu Si P; Controlled: Ni.
GK2280-03	24-258 Motorola, Smart Phone Model XT2521, Antenna flex 3				49.32%		Main: Cu; Other: Si P S Cl Ca Ti Co Zn Zr Yb; Trace: K Cr Fe Ga Sn Sb.	Reportable: Co Cu Si P;
GK2281-00	24-258 Motorola, Smart Phone Model XT2521, Light sensor PWB		0.254	0.13%			Main: Si S Cu; Other: Al P Cl K Ca Ti Sr Sn Ba Hf; Trace: Cr Mn Ga Zr Ag La Ce Th. See x, y – Scan (Chapter 5)	Reportable: Al Cu Ba Si P;
GK2282-00	24-258 Motorola, Smart Phone Model XT2521, Flashlight		0.429	0.23%				
GK2282-01	24-258 Motorola, Smart Phone Model XT2521, Flashlight				12.82%	PMMA	Other: Si P S Ca; Trace: Cl Fe Ni.	
GK2282-02	24-258 Motorola, Smart Phone Model XT2521, Flashlight, Clear glue strip				2.80%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2282-03	24-258 Motorola, Smart Phone Model XT2521, Flashlight, PWB				84.38%		Main: Ni Cu; Other: Al Si P S Cl K Ca Fe Sr Sn Ba Ta Au; Trace: Ti Cr Mn Ge Zr Ru Rh Pd Ag I Ce Pb. See x, y – Scan (Chapter 5)	Reportable: Al Fe Cu Sn Ba Au 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. V6 Appendix C relevant compounds ¹⁾
GK2283-00	24-258 Motorola, Smart Phone Model XT2521, Glass cover 1-4		0.664	0.35%				
GK2283-01	24-258 Motorola, Smart Phone Model XT2521, Glass cover 1				27.71%		Main: Si K; Other: Al P Cl Ca Sn; Trace: S Ti Fe Zr Sb Ba.	Reportable: Al Sn Si;
GK2283-02	24-258 Motorola, Smart Phone Model XT2521, Glass cover 2				27.71%		Other: Al Si P S Cl K Ca Ti Sn; Trace: Fe Zn Zr Sb Ba.	Reportable: Al Sn Si;
GK2283-03	24-258 Motorola, Smart Phone Model XT2521, Glass cover 3				21.99%		Other: Si P S Cl K Ca Ti Sn; Trace: Fe Zn Zr Ba.	Reportable: Sn Si;
GK2283-04	24-258 Motorola, Smart Phone Model XT2521, Glass cover 4				22.59%		Main: Si K; Other: Al P Cl Ca Sn; Trace: S Ti Fe Zr Ba.	Reportable: Al Sn Si;
GK2284-00	24-258 Motorola, Smart Phone Model XT2521, Black plastic frame		11.675	6.15%				
GK2284-01	24-258 Motorola, Smart Phone Model XT2521, Black plastic frame, Black glue				2.98%	PBT 80% Acrylic 20%	Main: Fe Ni Cu Zn; Other: Si P S Cl Ca Cr Mn Co Rb Y Zr Mo Yb Th; Trace: K Ti Sr Sn Sb U.	Reportable: Cr Fe Co Cu Zn Rb Y Si P; Controlled: Ni.
GK2284-02	24-258 Motorola, Smart Phone Model XT2521, Black plastic frame, Metal plate				18.88%		Main: Cr Mn Fe Ni; Other: Al Si P S Ti V Co Cu Mo W Bi; Trace: Se Zr Sn.	Reportable: Al Cr Fe Co Cu W Bi; Controlled: Ni.
GK2284-03	24-258 Motorola, Smart Phone Model XT2521, Black plastic frame				78.14%	PC	Other: P S K Ca; Trace: Si Cl Fe In Sn.	
GK2285-00	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker		2.352	1.24%				
GK2285-01	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Black plastic housing				41.67%	PC	Other: Si P S Cl K Ca Fe; Trace: Ti Zn Zr.	Reportable: Fe;



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. V6 Appendix C relevant compounds ¹⁾
GK2285-02	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Metal plate 1				20.11%		Main: P Fe Ni; Other: Al Si S Cr Mn Co Zn Zr; Trace: Cu Sn.	Reportable: Al Cr Fe Co Zn; Controlled: Ni.
GK2285-03	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Magnet				20.71%		Main: Fe Zn Pr; Other: Al Si S Cl Co Cu Ga Ge Sr Y Zr Nb Mo Nd W U; Trace: Ca Cr Mn Rb Ru Rh Sn Yb Bi Th.	Reportable: Al Fe Co Cu Zn Y Pr Nd W; Controlled: Ni.
GK2285-04	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Metal plate 2				8.08%		Main: P Fe Ni; Other: Al Si S Mn Co Cu Zn Bi; Trace: Ti Cr Zr Sn.	Reportable: Al Fe Co Cu Zn Bi; Controlled: Ni.
GK2285-05	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Copper wire				4.25%		Main: Si P S Cu; Other: Al Fe Ni Zn Zr Ag Sn; Trace: Te.	Reportable: Fe Cu Zn Ag Sn; Controlled: Ni.
GK2285-06	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Membrane				0.89%	TPC	Main: Al; Other: Si P S Cl Ca Fe Cu; Trace: K Ti V Cr Ni Zn Zr Sn.	Reportable: Al Fe Cu; Controlled: Ni.
GK2285-07	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Black shock pad				0.47%	PUR 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2285-08	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Contacts				2.47%		Main: Si P S Cr Mn Fe Ni Sn; Other: Al V Co Cu Zr Au; Trace: Te.	Reportable: Cr Fe Co Cu Sn Au; Controlled: Ni.
GK2285-09	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Blue glue				0.04%	PMMA	Other: Si P S Cl Ca Sn; Trace: Cr Fe Ni Cu Zn Sb.	
GK2285-10	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Clear glue				0.30%	PUR	Other: Si P S Cl Ca; Trace: Cr Fe Ni Cu Zn Sn.	
GK2285-11	24-258 Motorola, Smart Phone Model XT2521, Bottom speaker, Flex				1.02%		Main: P Cu; Other: Al Si S Cl K Ca Fe Co Ni Zn Zr Sn; Trace: Ti Cr Mn Ga Sb.	Reportable: Al Fe Co Cu Zn Sn 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. V6 Appendix C relevant compounds ¹⁾
GK2286-00	24-258 Motorola, Smart Phone Model XT2521, SUB PWB		1.140	0.60%				
GK2286-01	24-258 Motorola, Smart Phone Model XT2521, SUB PWB, Black soft plastic part				9.47%	Silicone	Other: Si P S Cl Ca; Trace: Fe Ni Zn Sn Sb.	Reportable: Si;
GK2286-02	24-258 Motorola, Smart Phone Model XT2521, SUB PWB, Metal shielding 1				2.89%		Main: Si P S Ni Cu Zn Sn; Other: Al Ti Mn Fe Zr Mo Ag Te;	Reportable: Fe Cu Zn Ag Sn Te; Controlled: Ni.
GK2286-03	24-258 Motorola, Smart Phone Model XT2521, SUB PWB, Metal shielding 2				0.79%		Main: Si P S Ni Cu Zn Sn; Other: Al Fe Zr Mo Cd Sb Au; Trace: Co Te.	Reportable: Fe Co Cu Zn Sn Sb Au; Controlled: Ni.
GK2286-04	24-258 Motorola, Smart Phone Model XT2521, SUB PWB, Humidity indicator				0.09%	Paper 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Ti Cr Fe Ni Cu Zn Sn Sb.	
GK2286-05	24-258 Motorola, Smart Phone Model XT2521, SUB PWB				86.75%		Main: Si S Fe Ni Cu; Other: Al P Cl K Ca Ti Cr Mn Sr Ag Sn I Ba Hf Au; Trace: Ga Zr Mo La Ce Th. See x, y – Scan (Chapter 5)	Reportable: Al Cr Fe Cu Ag Sn Ba Au Si P; Controlled: Ni.
GK2287-00	24-258 Motorola, Smart Phone Model XT2521, Vibra cell		0.898	0.47%				
GK2287-01	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Black glue strip				0.78%	PE-LD 80% Acrylic 20%	Other: Si P S Cl Ca Zn; Trace: K Cr Fe Ni Cu Sn Sb.	Reportable: Zn;
GK2287-02	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Metal housing 1				25.28%		Main: P Fe Ni; Other: Al Si S Mn Co Bi; Trace: Cr Cu Zr Sn.	Reportable: Al Fe Co Bi; Controlled: Ni.
GK2287-03	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Metal housing 2				20.38%		Main: P Fe Ni; Other: Al Si S Mn Co Bi; Trace: Cr Zr Sn.	Reportable: Al Fe Co Bi; 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. V6 Appendix C relevant compounds ¹⁾
GK2287-04	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Magnet				24.05%		Main: Fe Ni Cu Ce Pr; Other: Al Si S Cl V Zn Rb Y Zr Nb Mo Ba Bi Th U; Trace: Ca Co Ge Br Ru Rh In Sb Te La Tl.	Reportable: Al Fe Co Cu Zn Rb Y Ba Ce Pr Bi; Controlled: Ni.
GK2287-05	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, White plastic part				3.45%	PBT	Other: Si P S Cl Ca Fe; Trace: K Ti Cr Ni Cu Zn Sn.	Reportable: Fe;
GK2287-06	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Copper wire				8.57%		Main: Si P S Cu; Other: Al Fe Ni Zn Zr; Trace: Sn Te.	Reportable: Fe Cu Zn; Controlled: Ni.
GK2287-07	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Metal part				12.92%		Main: P S Co Ni W; Other: Al Si Fe Cu Zn Zr Sn Ta;	Reportable: Fe Co Cu Zn Sn W; Controlled: Ni.
GK2287-08	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Metal ring				1.34%		Main: Si P S Fe Cu; Other: Al Co Ni Zr Sn;	Reportable: Fe Co Cu Sn; Controlled: Ni.
GK2287-09	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Blue glue				0.11%	PUR	Other: Si S Cl Cu; Trace: Ca Cr Fe Ni Zn.	Reportable: Cu;
GK2287-10	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Metal rod				0.33%		Main: Si P S Cr Fe; Other: Al Ni Zr Mo;	Reportable: Cr Fe; Controlled: Ni.
GK2287-11	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Clear glue strip				0.11%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ni; Trace: K Cr Fe Cu Zn Sn Sb.	
GK2287-12	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, Flex				0.78%		Main: Ni Cu; Other: Al Si P S Cl K Ca Ti Fe Zr Ta Au; Trace: Mn Co Ga Ge Sn Ba. See x, y – Scan (Chapter 5)	Reportable: Al Fe Co Cu Au Si P; Controlled: Ni.
GK2287-13	24-258 Motorola, Smart Phone Model XT2521, Vibra cell, PWB				1.89%		Main: Al Si S Ca Cu; Other: P Cl K Ti Mn Fe Ni Sr Ba Hf Au; Trace: V Cr Zn Ga Ge Zr Mo Sn Te La Ce W. See x, y – Scan (Chapter 5)	Reportable: Al Fe Cu Ba Au Si P; Controlled: Ni.

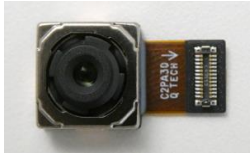


Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. V6 Appendix C relevant compounds ¹⁾
GK2288-00	24-258 Motorola,Smart Phone Model XT2521, Black connection cable		0.179	0.09%				
GK2288-01	24-258 Motorola,Smart Phone Model XT2521, Black connection cable, Metal contact holder				17.32%		Main: Si P S Ni Cu Sn Au; Other: Al Fe Zr;	Reportable: Fe Cu Sn Au; Controlled: Ni.
GK2288-02	24-258 Motorola,Smart Phone Model XT2521, Black connection cable, Golden contacts				0.56%		Main: Si P S Ni Cu Sn; Other: Al Fe Zr Mo Au;	Reportable: Fe Cu Sn Au; Controlled: Ni.
GK2288-03	24-258 Motorola,Smart Phone Model XT2521, Black connection cable, Black plastic inserts				0.56%	PP	Other: Si S Cl Ca; Trace: P K Cr Fe Ni Cu Zn Sn Sb.	
GK2288-04	24-258 Motorola,Smart Phone Model XT2521, Black connection cable, Black cable jacket				15.64%	FEP	Other: Si S Cl; Trace: P Ca Ti Cr Fe Ni Cu Zn Sn.	
GK2288-05	24-258 Motorola,Smart Phone Model XT2521, Black connection cable, Wire 1				37.99%		Main: Si P S Cu Sn; Other: Al Fe Ni Zn Zr;	Reportable: Fe Cu Zn Sn; Controlled: Ni.
GK2288-06	24-258 Motorola,Smart Phone Model XT2521, Black connection cable, White cable jacket				21.23%	FEP	Other: Si P S Cl Ca Ti Cu; Trace: Fe Co Ni Zn Br Sn.	Reportable: Co Cu;
GK2288-07	24-258 Motorola,Smart Phone Model XT2521, Black connection cable, Wire 2				6.70%		Main: Si P S Cu Ag; Other: Al Fe Ni Zn Zr Sn; Trace: Te.	Reportable: Fe Cu Zn Ag; Controlled: Ni.
GK2289-00	24-258 Motorola,Smart Phone Model XT2521, Rear camera 1		0.332	0.17%				
GK2289-01	24-258 Motorola,Smart Phone Model XT2521, Rear camera 1, Black plastic housing				33.73%	Polyester	Other: Si P S Cl Ca Fe Cu Zn Ba; Trace: K Ti Ni Sn.	Reportable: Cu Zn Ba 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. V6 Appendix C relevant compounds ¹⁾
GK2289-02	24-258 Motorola, Smart Phone Model XT2521, Rear camera 1, Blue glass				4.52%		Other: Si P S Cl Ca Ti Cu Zn Ba; Trace: K Fe Co Ni Sn.	Reportable: Co Cu Zn Ba P;
GK2289-03	24-258 Motorola, Smart Phone Model XT2521, Rear camera 1, Black foil rings				0.30%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: Cr Fe Ni Cu Zn Sn Sb.	
GK2289-04	24-258 Motorola, Smart Phone Model XT2521, Rear camera 1, Black ring				3.01%		Main: Al S Cu Zn; Other: Ti Ni Ga Ge Sn W Ti Bi; Trace: Si Ca V Cr Mn Fe As Br Sb.	Reportable: Al Cu Zn Sn W Ti Bi;
GK2289-05	24-258 Motorola, Smart Phone Model XT2521, Rear camera 1, Lenses				8.13%	PMMA	Other: Si P S Cl Ca Ti; Trace: K Fe Ni Cu Zn Sn Sb.	
GK2289-06	24-258 Motorola, Smart Phone Model XT2521, Rear camera 1, Flex				50.30%		Main: Si Cr Mn Fe Ni Cu Ag; Other: Al P S Cl K Ca V Co Mo Sn Ba; Trace: Ge Rb Zr Ru Rh Pd Pb U. See x, y – Scan (Chapter 5)	Reportable: Al Cr Fe Co Cu Ag Ba Si P; Controlled: Ni.
GK2290-00	24-258 Motorola, Smart Phone Model XT2521, Front camera		0.234	0.12%				
GK2290-01	24-258 Motorola, Smart Phone Model XT2521, Front camera, Black plastic part				38.03%	PC	Other: Si P S Cl Ca; Trace: K Ti Fe Ni Sn.	
GK2290-02	24-258 Motorola, Smart Phone Model XT2521, Front camera, Black foil rings				0.43%	PAI	Other: Si P S Cl Ca; Trace: Ti Cr Fe Ni Cu Zn Sn Sb.	
GK2290-03	24-258 Motorola, Smart Phone Model XT2521, Front camera, Blue glass				4.27%		Other: Si P S Cl K Ca Ni Cu; Trace: Ti Cr Fe Zn Ba.	Reportable: Cu Sn P;
GK2290-04	24-258 Motorola, Smart Phone Model XT2521, Front camera, Lenses				15.38%	PMMA	Other: Si P S Cl Ca Ti; Trace: Fe Ni Zn Sn.	

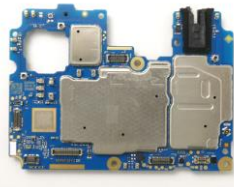


Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. V6 Appendix C relevant compounds ¹⁾
GK2290-05	24-258 Motorola, Smart Phone Model XT2521, Front camera, Flex				41.88%		Main: Si P S Ni Cu; Other: Al Cl K Ca Ti Mn Fe Co Sr Zr Pd Sn Ba Ta Au; Trace: Cr Ge Ag I Pb. See x, y – Scan (Chapter 5)	Reportable: Al Fe Co Cu Pd Sn Ba Au Si P; Controlled: Ni.
GK2291-00	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2		0.881	0.46%				
GK2291-01	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Copper glue strip				2.72%	Metal 80% Acrylic 20%	Main: Cu; Other: Si P S Cl Ca Ti Co Ni; Trace: K Cr Fe Zn Ga Sn.	Reportable: Co Cu; Controlled: Ni.
GK2291-02	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Metal frame				20.89%		Main: Si P S Fe Ni; Other: Al Cr Mn Co Cu Zr Sb; Trace: Sn.	Reportable: Cr Fe Co Cu Sb; Controlled: Ni.
GK2291-03	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Black plastic part 1				13.17%	Polyester	Other: Si P S Cl K Ca Ti Fe Cu Ba; Trace: Ni Zn Sn Sb.	Reportable: Fe Cu Ba Si;
GK2291-04	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Black plastic part 2				4.20%	PC	Other: Si S Cl Ca; Trace: P Fe Ni Cu Sn.	
GK2291-05	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Contact ring 1				0.11%		Main: Si P S Ni Cu Sn; Other: Al Fe Zr;	Reportable: Fe Cu Sn; Controlled: Ni.
GK2291-06	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Contact ring 2				0.57%		Main: Si P S Ni Cu Sn; Other: Al Mn Fe Zr; Trace: Te.	Reportable: Fe Cu Sn; Controlled: Ni.
GK2291-07	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Contact ring 3				1.25%		Main: Si P S Ni Cu Zn; Other: Al Fe Co Zr Sn;	Reportable: Fe Co Cu Zn; Controlled: Ni.
GK2291-08	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Contact ring 4				0.11%		Main: Si P S Ni Cu Sn; Other: Al Fe Zr;	Reportable: Fe Cu Sn; Controlled: Ni.

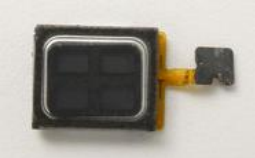
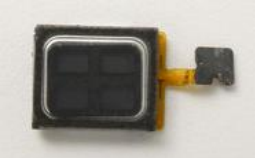


Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. V6 Appendix C relevant compounds ¹⁾
GK2291-09	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Contact ring 5				0.11%		Main: Si P S Ni Cu Zn Sn; Other: Al Fe Zr;	Reportable: Fe Cu Zn Sn; Controlled: Ni.
GK2291-10	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Copper wire				1.48%		Main: Si P S Cu; Other: Al Fe Ni Zr Sn;	Reportable: Fe Cu; Controlled: Ni.
GK2291-11	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Magnets				10.67%		Main: Si Cl Fe Ni Cu Pr; Other: Al S V Zn Rb Sr Y Zr Nb Mo In Cs Ba Ti Bi Th U; Trace: Ca Ru Rh Sb.	Reportable: Fe Cu Zn Rb Y Ba Pr Ti Bi; Controlled: Ni.
GK2291-12	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Black plastic ring				0.34%	PC	Other: Si P S Cl Ca; Trace: Cr Fe Ni Cu Zn Sn.	
GK2291-13	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Black ring				2.95%		Main: S Cu Zn Bi; Other: Al Si P Cl K Ti Fe Ni Sn; Trace: Ca Mn As Y Ba Nd Th U.	Reportable: Al Fe Cu Zn Sn Bi;
GK2291-14	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Black foil rings				0.11%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: Ti Cr Fe Ni Cu Zn Sn.	
GK2291-15	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Blue glass				2.84%		Other: Si P S Cl Ca Ti Cu Zn Ba; Trace: K Fe Ni Sn Sb.	Reportable: Cu Zn Ba;
GK2291-16	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Lenses				6.02%	TPE	Other: Si P S Ca Ti; Trace: Cl K Fe Ni.	
GK2291-17	24-258 Motorola, Smart Phone Model XT2521, Rear camera 2, Flex				32.46%		Main: Si S Fe Ni Cu; Other: Al P Cl K Ca Ti Cr Mn Co Sr Zr Mo Ag Sn Ba; Trace: V Ga Ru Rh Pd Sb Th. See x, y – Scan (Chapter 5)	Reportable: Al Cr Fe Co Cu Ag Sn Ba 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. V6 Appendix C relevant compounds ¹⁾		
GK2292-00	24-258 Motorola,Smart Phone Model XT2521, Main PWB		14.679	7.74%						
GK2292-01	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Metal shielding 1				26.77%		Main: Si Ni Cu Zn; Other: Al P S Mn Fe Co Zr Ag Sn; Trace: Cr.	Reportable: Fe Co Cu Zn Ag Sn; Controlled: Ni.		
GK2292-02	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Metal shielding 2				4.32%		Main: Al Cr Fe Ni; Other: Si P S Ti V Mn Co Cu Sn Bi; Trace: Se Zr.	Reportable: Al Cr Fe Co Cu Sn Bi; Controlled: Ni.		
GK2292-03	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Copper glue strip				2.50%	Metal 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl K Ca Ti Fe Co Zn Ga Zr Sn Yb; Trace: Cr Mn Y Sb.	Reportable: Al Fe Co Cu Zn Sn Si P; Controlled: Ni.		
GK2292-04	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Black glue strip				0.57%	Silicone 80% Acrylic 20%	Other: Si P Cl Ca Cu; Trace: S K Cr Fe Ni Zn Sn Sb.	Reportable: Cu;		
GK2292-05	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Black soft plastic part 1				0.72%	Silicone	Other: Si S Ca; Trace: P Cl Fe Ni Sn.	Reportable: Si;		
GK2292-06	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Black soft plastic part 2				0.13%	Silicone	Other: Si S Cl Ca; Trace: P Fe Ni Zn Sn Sb.	Reportable: Si;		
GK2292-07	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Metallic glue strip				0.03%	PET 80% Acrylic 20%	Main: Ni Cu; Other: Si P S Cl Ca Co Zn; Trace: K Cr Fe Sn.	Reportable: Co Cu Zn; Controlled: Ni.		
GK2292-08	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Humidity indicator				0.01%	Paper 80% Acrylic 20%	Other: Si S Cl Ca; Trace: P K Ti Cr Fe Ni Cu Zn Sn Sb.			
GK2292-09	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Metal clamp 1				0.70%		Main: Si P S Cr Mn Fe Ni; Other: Al V Co Cu Zr Mo W; Trace: Sn.	Reportable: Cr Fe Co Cu W; Controlled: Ni.		
GK2292-10	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Metal clamp 2				0.16%		Main: Si P S Cr Fe Ni; Other: Al V Mn Co Cu Zr W;	Reportable: Cr Fe Co Cu W; Controlled: Ni.		
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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. V6 Appendix C relevant compounds ¹⁾
GK2292-11	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Contacts				0.42%		Main: Si P S Cr Fe Ni Cu Sn; Other: Al V Mn Co Zr Au; Trace: Bi.	Reportable: Cr Fe Co Cu Sn Au; Controlled: Ni.
GK2292-12	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Black plastic contact holder				1.06%	PPA	Main: P; Other: Si S Cl K Ca Fe Sn; Trace: Ti Cr Ni Cu Zn Zr.	Reportable: Fe P;
GK2292-13	24-258 Motorola,Smart Phone Model XT2521, Main PWB, Pink thermal paste				2.71%	Silicone	Other: Si P Ca; Trace: S Cl Fe Zn Zr Sn Sb Ba.	
GK2292-14	24-258 Motorola,Smart Phone Model XT2521, Main PWB				59.90%		See Material Assay PWB (Chapter 4) See x, y – Scan (Chapter 5)	Controlled: Pb
GK2293-00	24-258 Motorola,Smart Phone Model XT2521, Top speaker		0.962	0.51%				
GK2293-01	24-258 Motorola,Smart Phone Model XT2521, Top speaker, Black shock pad				0.83%	PET 60% PUR 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2293-02	24-258 Motorola,Smart Phone Model XT2521, Top speaker, Metal frame				12.68%		Main: Si Cr Mn Fe Ni Mo; Other: Al P S Ti V Co Cu Zr W Bi; Trace: As Se Sn.	Reportable: Al Cr Fe Co Cu W Bi; Controlled: Ni.
GK2293-03	24-258 Motorola,Smart Phone Model XT2521, Top speaker, Metal plate 1				22.66%		Main: P Fe Ni; Other: Al Si S Cr Mn Co Cu Zn Zr; Trace: Ti V Sn.	Reportable: Al Cr Fe Co Cu Zn; Controlled: Ni.
GK2293-04	24-258 Motorola,Smart Phone Model XT2521, Top speaker, Black net 1				0.21%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Ti Cr Fe Ni Cu Zn Sn Sb.	
GK2293-05	24-258 Motorola,Smart Phone Model XT2521, Top speaker, Blue glue				0.21%	PMMA	Other: Si P S Cl Ca Sn; Trace: Cr Fe Ni Cu Zn.	
GK2293-06	24-258 Motorola,Smart Phone Model XT2521, Top speaker, Black net 2				0.10%	PET 80% Acrylic 20%	Other: Si S Cl Ca Ni Zn; Trace: P K Ti Cr Fe Cu Sn Sb.	



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. V6 Appendix C relevant compounds ¹⁾
GK2293-07	24-258 Motorola, Smart Phone Model XT2521, Top speaker, Metal frame 2				8.94%		Main: Si S Fe Ni; Other: Al P Mn Co Cu Zn Zr; Trace: Cr Sn.	Reportable: Fe Co Cu Zn; Controlled: Ni.
GK2293-08	24-258 Motorola, Smart Phone Model XT2521, Top speaker, Membrane				0.83%	PPS/PC 40% Metal 40% PUR 20%	Main: Al; Other: Si S Cl Ca Fe Cu; Trace: P Ti Cr Ni Zn Sn.	Reportable: Al Fe Cu;
GK2293-09	24-258 Motorola, Smart Phone Model XT2521, Top speaker, Magnets 1				18.30%		Main: Si S Cl Fe Cu Zn Y Zr Nb Mo Ba La Pr; Other: V Co Ni Br Ru Rh In Sb Te I Cs Ce W Ti Bi Th U; Trace: Al Ca.	Reportable: Fe Co Cu Zn Y Sb Te Ba La Ce Pr W Ti Bi; Controlled: Ni.
GK2293-10	24-258 Motorola, Smart Phone Model XT2521, Top speaker, Magnet 2				19.44%		Main: Fe Zn Pr; Other: Al Si S Cl V Co Ni Cu Ga Ge Y Zr Nb Mo W Bi Th U; Trace: Ca Rh In.	Reportable: Al Fe Co Cu Zn Y Pr W Bi;
GK2293-11	24-258 Motorola, Smart Phone Model XT2521, Top speaker, Copper wire				3.43%		Main: Si P S Cu; Other: Al Fe Ni Zn Zr Mo Ag Sn; Trace: Te.	Reportable: Fe Cu Zn Ag Sn; Controlled: Ni.
GK2293-12	24-258 Motorola, Smart Phone Model XT2521, Top speaker, Metal plate 2				6.24%		Main: P S Fe Ni; Other: Al Si Mn Co Cu Bi; Trace: Cr Zr Sn.	Reportable: Al Fe Co Bi; Controlled: Ni.
GK2293-13	24-258 Motorola, Smart Phone Model XT2521, Top speaker, Black plastic part				3.95%	PA	Other: Si P S Cl Ca; Trace: K Ti Cr Fe Ni Cu Zn Sn.	
GK2293-14	24-258 Motorola, Smart Phone Model XT2521, Top speaker, Flex				2.18%		Main: Al P Ca Cu Sn; Other: Si S Cl K Fe Co Ni Zn Zr; Trace: Ti Mn Ga Ag Sb Ta Au. See x, y – Scan (Chapter 5)	Reportable: Al Fe Co Cu Zn Sn 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. V6 Appendix C relevant compounds ¹⁾
GK2294-00	24-258 Motorola,Smart Phone Model XT2521, Volume button flex		0.212	0.11%				
GK2294-01	24-258 Motorola,Smart Phone Model XT2521, Volume button flex, Metal plates 1				4.25%		Main: Si P S Cr Fe Ni; Other: Al V Mn Co Cu Mo; Trace: Zr Sn Bi.	Reportable: Cr Fe Co Cu; Controlled: Ni.
GK2294-02	24-258 Motorola,Smart Phone Model XT2521, Volume button flex, Metal plates 2				0.47%		Main: Si P S Cr Fe Ni; Other: Al V Mn Co Cu Zr W; Trace: Mo Sn.	Reportable: Cr Fe Co Cu W; Controlled: Ni.
GK2294-03	24-258 Motorola,Smart Phone Model XT2521, Volume button flex, Clear glue strip 1				0.47%	PA	Other: Si P S Cl Ca; Trace: Cr Fe Ni Cu Zn Sn Sb.	
GK2294-04	24-258 Motorola,Smart Phone Model XT2521, Volume button flex, Clear glue strip 2				0.47%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2294-05	24-258 Motorola,Smart Phone Model XT2521, Volume button flex				94.34%		Main: Ni Cu; Other: Al Si P S Cl K Ca Fe Zr Ag Sn I Ta Au; Trace: Ti Mn Ga Sb Cs Tl. See x, y – Scan (Chapter 5)	Reportable: Al Fe Cu Ag Sn Au P; Controlled: Ni.
GK2295-00	24-258 Motorola,Smart Phone Model XT2521, Battery		64.745	34.12%				
GK2295-01	24-258 Motorola,Smart Phone Model XT2521, Battery, Outer cover				3.66%		Main: Al Si P S Fe; Other: Ti V Cr Mn Co Ni Cu Ga Zr;	Reportable: Al Cr Fe Co Cu; Controlled: Ni.
GK2295-02	24-258 Motorola,Smart Phone Model XT2521, Battery, Silver foil				8.84%		Main: Al Co; Other: Si P S Ti V Fe Cu; Trace: Ga Zr.	Reportable: Al Fe Co Cu;
GK2295-03	24-258 Motorola,Smart Phone Model XT2521, Battery, Copper foil				9.97%		Main: Cu; Other: Al Si P S Fe Co Ni Zn Zr; Trace: Cr.	Reportable: Al Fe Co 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. V6 Appendix C relevant compounds ¹⁾
GK2295-04	24-258 Motorola, Smart Phone Model XT2521, Battery, White foil				6.39%	PE-LD	Main: P; Other: Al Si S Cl Ca Co Cu; Trace: K Ti Cr Fe Ni Zn Sn.	Reportable: Al Co Cu P;
GK2295-05	24-258 Motorola, Smart Phone Model XT2521, Battery, Green glue strips				0.72%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Ti Co Cu Sb; Trace: K Fe Y.	Reportable: Co Cu Sb P;
GK2295-06	24-258 Motorola, Smart Phone Model XT2521, Battery, Blue glue strips				0.08%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Co Cu; Trace: K Fe Ni Zn Sn Sb.	Reportable: Co Cu;
GK2295-07	24-258 Motorola, Smart Phone Model XT2521, Battery, Contact 1				0.19%		Main: Ni Cu; Other: Al Si P S Ti Mn Fe Co Zr Hf; Trace: Cr Sn.	Reportable: Al Fe Co Cu; Controlled: Ni.
GK2295-08	24-258 Motorola, Smart Phone Model XT2521, Battery, Contact 2				0.09%		Main: Al; Other: Si P S Ti V Fe Co Cu; Trace: Cr Ni Ga Zr.	Reportable: Al Fe Co;
GK2295-09	24-258 Motorola, Smart Phone Model XT2521, Battery, Carbon coating				68.71%		Main: Co; Other: Si P S Cl Ca Fe Cu; Trace: K Ti Cr Ni Y Zr.	Reportable: Fe Co Cu P;
GK2295-10	24-258 Motorola, Smart Phone Model XT2521, Battery, Black glue strips				0.26%	PAI 80% Acrylic 20%	Other: Si P Cl Ca; Trace: S K Fe Co Ni Cu Zn Sn.	Reportable: Co;
GK2295-11	24-258 Motorola, Smart Phone Model XT2521, Battery, White/Black glue strip				0.12%	PAI 40% PET 40% Acrylic 20%	Other: Si P Cl Ca; Trace: S K Cr Fe Co Ni Cu Zn Sn Sb.	Reportable: Co;
GK2295-12	24-258 Motorola, Smart Phone Model XT2521, Battery, Black shock pad				0.08%	PET 60% Silicone 20% Acrylic 20%	Other: Al Si P S Cl Ca Zn; Trace: Cr Fe Co Ni Cu Sn Sb.	Reportable: Al Co Zn Si;
GK2295-13	24-258 Motorola, Smart Phone Model XT2521, Battery, Flex grid				0.89%		Main: Si P Cu; Other: Al S Cl Ca Fe Ni Zr Sn I Ba W; Trace: K Ti Mn Ga Sr Ag. See x, y – Scan (Chapter 5)	Reportable: Al Fe Cu Sn Ba W Si P; Controlled: Ni 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. V6 Appendix C relevant compounds ¹⁾
GK2296-00	24-258 Motorola, Smart Phone Model XT2521, Connection flex		0.518	0.27%			Main: Al Si S Fe Ni Cu; Other: P Cl K Ca Ti Zr Sn; Trace: Cr Mn Se Ru Ag Ti Pb. See x, y – Scan (Chapter 5)	Reportable: Al Fe Cu Si P; Controlled: Ni.
GK2297-00	24-258 Motorola, Smart Phone Model XT2521, Display		29.060	15.32%				
GK2297-01	24-258 Motorola, Smart Phone Model XT2521, Display, Front glass				59.50%		Main: Si K; Other: Al P Cl Ca Sn; Trace: S Ti Fe Zr.	Reportable: Al Sn Si;
GK2297-02	24-258 Motorola, Smart Phone Model XT2521, Display, LCD glass				21.38%		Other: Al Si P S Cl Ca Br Sr Ag Sn; Trace: K Fe Ni Cu Zn Zr I W.	Reportable: Al Ag Sn Si; Controlled: BFR*.
GK2297-03	24-258 Motorola, Smart Phone Model XT2521, Display, Back foil				3.83%	PET 80% Acrylic 20%	Other: Si P S Cl K Ca I; Trace: Ti Fe Co Ni Zn Sr Sn Sb.	Reportable: Co;
GK2297-04	24-258 Motorola, Smart Phone Model XT2521, Display, Back glass				15.29%		Main: Si Sr; Other: Al P S Cl K Ca Ti Mo In Sn Ba U; Trace: Fe Br Rb Zr Th.	Reportable: Al Sn Ba Si;
GK2298-00	24-258 Motorola, Smart Phone Model XT2521, Display connection flex		0.951	0.50%				
GK2298-01	24-258 Motorola, Smart Phone Model XT2521, Display connection flex, Metallic glue strip				2.84%	PET 80% ACM 20%	Main: Cu; Other: Si P S Cl Ca Co Ni; Trace: K Ti Cr Fe Zn Sn Sb Yb.	Reportable: Co Cu; Controlled: Ni.
GK2298-02	24-258 Motorola, Smart Phone Model XT2521, Display connection flex, Copper glue strip				7.99%	Metal 80% Acrylic 20%	Main: Cu; Other: Si P S Cl K Ca Cr Fe Co Ni Zn Yb; Trace: Ti Ga Zr Sn.	Reportable: Cr Fe Co Cu Zn Si; Controlled: Ni.
GK2298-03	24-258 Motorola, Smart Phone Model XT2521, Display connection flex, Green glue strip				1.26%	PET 80% Acrylic 20%	Other: Si P Cl Ca Ni Cu; Trace: S K Ti Cr Fe Zn Sn Sb.	Reportable: Cu; Controlled: Ni.

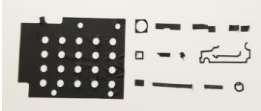


Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. V6 Appendix C relevant compounds ¹⁾
GK2298-04	24-258 Motorola, Smart Phone Model XT2521, Display connection flex, Blue glue strip				0.11%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Cu; Trace: K Ti Cr Fe Ni Zn Sn Sb.	
GK2298-05	24-258 Motorola, Smart Phone Model XT2521, Display connection flex, Black glue				0.11%	Acrylic	Main: Ni Cu; Other: Si P S Cl Ca Co Zn; Trace: Ti Cr Fe Sn.	Reportable: Co Cu; Controlled: Ni.
GK2298-06	24-258 Motorola, Smart Phone Model XT2521, Display connection flex, LED flex				6.52%		Main: Al P Cu Sn; Other: Si S Cl K Ca Ti Fe Ni Ga Zr Ag I Ta; Trace: V Mn Zn Au. See x, y – Scan (Chapter 5)	Reportable: Al Fe Cu Ag Sn Si P; Controlled: Ni.
GK2298-07	24-258 Motorola, Smart Phone Model XT2521, Display connection flex				81.18%		Main: Si S Ni Cu Sn Ba; Other: Al P Cl K Ca Ti Mn Sr Zr Ag I La Ce; Trace: Cr Ga Y Pd Ta Pb U. See x, y – Scan (Chapter 5)	Reportable: Al Cu Ag Sn Ba La Ce Si P; Controlled: Ni Pb.
GK2299-00	24-258 Motorola, Smart Phone Model XT2521, Metal housing		26.892	14.17%				
GK2299-01	24-258 Motorola, Smart Phone Model XT2521, Metal housing, Black shock pad				0.00%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: Cr Fe Ni Cu Zn.	
GK2299-02	24-258 Motorola, Smart Phone Model XT2521, Metal housing, Golden rings				0.65%		Main: Si P S Cu Zn Bi; Other: Al Fe Ni Zr Sn; Trace: Se.	Reportable: Fe Cu Zn Sn Bi; Controlled: Ni.
GK2299-03	24-258 Motorola, Smart Phone Model XT2521, Metal housing, Black plastic part				17.41%	PC	Other: Si P Ca Fe; Trace: S Cl K Ti Cu Zn Zr.	Reportable: Fe;
GK2299-04	24-258 Motorola, Smart Phone Model XT2521, Metal housing				81.94%		Main: Al Si; Other: P S Ti V Cr Mn Fe Ni Cu Zn Ga Zr; Trace: Co Sn.	Reportable: Al Cr Fe Co Cu Zn;



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. V6 Appendix C relevant compounds ¹⁾
GK2300-00	24-258 Motorola,Smart Phone Model XT2521, Black net 1-2		0.009	0.00%				
GK2300-01	24-258 Motorola,Smart Phone Model XT2521, Black net 1				11.11%	PET	Other: Si P S Cl Ca; Trace: K Ti Cr Fe Ni Cu Zn Sn.	
GK2300-02	24-258 Motorola,Smart Phone Model XT2521, Black shock pad 1					PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn.	
GK2300-03	24-258 Motorola,Smart Phone Model XT2521, Black net 2					PET	Other: Si P S Cl Ca; Trace: K Ti Cr Fe Ni Cu Zn Sn Sb.	
GK2300-04	24-258 Motorola,Smart Phone Model XT2521, Black shock pad 2					PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2301-00	24-258 Motorola,Smart Phone Model XT2521, Plastic parts		0.220	0.12%				
GK2301-01	24-258 Motorola,Smart Phone Model XT2521, Black foil plate				1.36%	PET 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2301-02	24-258 Motorola,Smart Phone Model XT2521, Black plastic clamp				46.82%	PC	Other: Si P Cl K Ca Fe; Trace: S Ti Ni Zn Sn.	Reportable: Fe;
GK2301-03	24-258 Motorola,Smart Phone Model XT2521, Black plastic part				0.45%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Cu; Trace: Ti Cr Fe Ni Zn Sn Sb.	
GK2301-04	24-258 Motorola,Smart Phone Model XT2521, Gray plastic frame				51.36%	PC	Other: Si P S Cl Ca Ti Zn; Trace: K Cr Fe Ni Cu Sn Sb Ba.	Reportable: Zn;

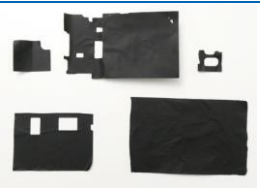


Sample No	Description	Photo	Weight [g]	Relative weight Sample	Relative Weight Sub Item	Material	Results Main: >1%, Others: 100ppm - 1%, Trace: <100ppm	Motorola W18 rev. V6 Appendix C relevant compounds ¹⁾
GK2302-00	24-258 Motorola, Smart Phone Model XT2521, Black glue 1-8		0.443	0.23%				
GK2302-01	24-258 Motorola, Smart Phone Model XT2521, Black glue 1				72.91%	Acrylic	Other: Si P Cl Ca Zn; Trace: S K Ti Fe Cu.	Reportable: Zn;
GK2302-02	24-258 Motorola, Smart Phone Model XT2521, Black glue 2				17.38%	EVA	Other: Si P S Cl Ca Zn; Trace: K Fe Ni Cu.	Reportable: Zn;
GK2302-03	24-258 Motorola, Smart Phone Model XT2521, Black glue 3				0.90%	Acrylic	Other: Si P S Cl Ca Zn; Trace: K Cr Fe Ni Cu Sn.	Reportable: Zn;
GK2302-04	24-258 Motorola, Smart Phone Model XT2521, Black glue 4+5+6+7				7.90%	Acrylic	Other: Si P S Cl Ca Zn; Trace: K Ti Cr Fe Ni Cu Sn.	Reportable: Zn;
GK2302-05	24-258 Motorola, Smart Phone Model XT2521, Black glue 8				0.90%	Acrylic	Other: Si P S Cl Ca Zn; Trace: K Cr Fe Ni Cu.	Reportable: Zn;
GK2303-00	24-258 Motorola, Smart Phone Model XT2521, Black shock pad 1-15		1.023	0.54%				
GK2303-01	24-258 Motorola, Smart Phone Model XT2521, Black shock pad 1				84.85%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Ni Zn Sn Sb.	Reportable: Si;
GK2303-02	24-258 Motorola, Smart Phone Model XT2521, Black shock pad 2				0.29%	PET 80% Acrylic 20%	Other: Si P S Cl Ca Cu; Trace: K Cr Fe Ni Zn Sn.	Reportable: Cu;
GK2303-03	24-258 Motorola, Smart Phone Model XT2521, Black shock pad 3				2.54%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2303-04	24-258 Motorola, Smart Phone Model XT2521, Black shock pad 4				2.25%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Ni Cu Zn Sb.	
GK2303-05	24-258 Motorola, Smart Phone Model XT2521, Black shock pad 5+6				1.66%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: Cr Fe Ni Cu Zn Sn Sb.	
GK2303-06	24-258 Motorola, Smart Phone Model XT2521, Black shock pad 7				0.49%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: Cr Fe Ni Cu Zn Sn Sb.	



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. V6 Appendix C relevant compounds ¹⁾
GK2303-07	24-258 Motorola,Smart Phone Model XT2521, Black shock pad 8				0.20%	PUR 80% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Cr Fe Ni Cu Zn Sn Sb.	
GK2303-08	24-258 Motorola,Smart Phone Model XT2521, Black shock pad 9+10				0.20%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: Cr Fe Ni Cu Zn Sn Sb.	
GK2303-09	24-258 Motorola,Smart Phone Model XT2521, Black shock pad 11				3.42%	PUR 60% PET 20% Acrylic 20%	Other: Si P S Cl Ca; Trace: K Fe Ni Cu Zn Sn Sb.	
GK2303-10	24-258 Motorola,Smart Phone Model XT2521, Black shock pad 12				0.88%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Ca Fe; Trace: Cl K Mn Co Ni Cu Zn Ga Sb.	Reportable: Al Fe Co;
GK2303-11	24-258 Motorola,Smart Phone Model XT2521, Black shock pad 13				2.05%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Ca Fe Ni; Trace: Cl K Mn Cu Sr Sb.	Reportable: Al Fe P;
GK2303-12	24-258 Motorola,Smart Phone Model XT2521, Black shock pad 14				0.98%	PUR 60% PET 20% Acrylic 20%	Other: Al Si P S Ca Fe Ni; Trace: Cl K Mn Co Cu Sr Sb Hf.	Reportable: Al Fe Co P;
GK2303-13	24-258 Motorola,Smart Phone Model XT2521, Black shock pad				0.20%	PET 40 % PP 40% Acrylic 20%	Other: Al Si P S Cl K Ca Fe Ni; Trace: Ti Mn Cu Zn Sb Hf.	Reportable: Al Fe Si P;
GK2304-00	24-258 Motorola,Smart Phone Model XT2521, Black glue strip 1-7		0.252	0.13%				
GK2304-01	24-258 Motorola,Smart Phone Model XT2521, Black glue strip 1				0.40%	PET 80% Acrylic 20%	Main: P; Other: Al Si S Ca Fe Ni Cu; Trace: K Ti Cr Mn Zn Sn Sb.	Reportable: Al Fe P; Controlled: Ni.
GK2304-02	24-258 Motorola,Smart Phone Model XT2521, Black glue strip 2+3				80.95%	PET 80% Acrylic 20%	Other: Al Si P S Ca; Trace: Cl K Fe Ni Cu Zn Sb Ba.	Reportable: Al;
GK2304-03	24-258 Motorola,Smart Phone Model XT2521, Black glue strip 4				0.40%	PET 80% Acrylic 20%	Other: Al Si P S Cl Ca Fe Ni Cu; Trace: K Cr Mn Zn Sb.	Reportable: Al Fe Cu 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. V6 Appendix C relevant compounds ¹⁾
GK2304-04	24-258 Motorola, Smart Phone Model XT2521, Black glue strip 5				16.27%	PET 80% Acrylic 20%	Other: Al Si P S Cl K Ca Fe Sr Zr; Trace: Ti Ni Cu Zn Br Sb Hf.	Reportable: Al Fe P;
GK2304-05	24-258 Motorola, Smart Phone Model XT2521, Black glue strip 6+7				1.98%	PET 80% Acrylic 20%	Other: Al Si P S Cl K Ca Fe Ni Cu Zn; Trace: Ti Cr Mn Co Sn Sb.	Reportable: Al Fe Co Cu Si P;
GK2305-00	24-258 Motorola, Smart Phone Model XT2521, Black glue foil 1-5		1.449	0.76%				
GK2305-01	24-258 Motorola, Smart Phone Model XT2521, Black glue foil 1				5.87%	PET 80% Acrylic 20%	Other: Al Si P S Cl Ca Fe; Trace: K Ni Cu Sb.	Reportable: Al Fe Si;
GK2305-02	24-258 Motorola, Smart Phone Model XT2521, Black glue foil 2				39.54%	PET 80% Acrylic 20%	Other: Al Si P S Ca Ti Fe; Trace: Cl K Ni Cu Zn Sb.	Reportable: Al Fe Si;
GK2305-03	24-258 Motorola, Smart Phone Model XT2521, Black glue foil 3				1.31%	PET 80% Acrylic 20%	Main: Si; Other: Al P S Ca Fe Ni Cu; Trace: Cl K Mn Zn Sb.	Reportable: Al Fe Si;
GK2305-04	24-258 Motorola, Smart Phone Model XT2521, Black glue foil 4				13.87%	PET 80% Acrylic 20%	Other: Al Si P S Ca Fe Cu; Trace: K Ni Zn Sb Ba Ce Hf.	Reportable: Al Fe Si;
GK2305-05	24-258 Motorola, Smart Phone Model XT2521, Black glue foil 5				39.41%	PET 80% Acrylic 20%	Other: Al Si P S Ca Fe; Trace: K Ni Cu Zn Sb.	Reportable: Al Fe P;
GK2306-00	24-258 Motorola, Smart Phone Model XT2521, Label 1-5		0.024	0.01%				
GK2306-01	24-258 Motorola, Smart Phone Model XT2521, Label 1				37.50%	Paper 60% PE 20% TPE 20%	Main: Ca; Other: Al Si P S Cl K Fe; Trace: Ti Mn Co Ni Cu Zn Sr.	Reportable: Al Fe Co P;
GK2306-02	24-258 Motorola, Smart Phone Model XT2521, Label 2				25.00%	Paper 60% SEBS 20% TPE 20%	Main: Ca; Other: Al Si P S Cl K Fe Ni; Trace: Ti Mn Cu Zn Br Sr Sb Hf.	Reportable: Al Fe P;
GK2306-03	24-258 Motorola, Smart Phone Model XT2521, Label 3				4.17%	PP 80% Acrylic 20%	Main: Ca; Other: Al Si P S Cl K Ti Fe Ni Cu; Trace: V Mn Zn Sr Zr.	Reportable: Al Fe 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. V6 Appendix C relevant compounds ¹⁾
GK2306-04	24-258 Motorola, Smart Phone Model XT2521, Label 4				29.17%	Paper 60% SEBS 20% Acrylic 20%	Main: Al Ca; Other: Si P S Cl K Mn Fe Ni Cu; Trace: Ti Cr Zn Sr Zr Hf.	Reportable: Al Fe Si P;
GK2306-05	24-258 Motorola, Smart Phone Model XT2521, Label 5				4.17%	PP 80% Acrylic 20%	Main: Ca; Other: Al Si P S Cl K Ti Fe Ni; Trace: V Mn Cu Zn Zr Hf.	Reportable: Al Fe Si P;
GK2307-00	24-258 Motorola, Smart Phone Model XT2521, Clear glue strip 1-4, White glue strip		0.036	0.02%				
GK2307-01	24-258 Motorola, Smart Phone Model XT2521, Clear glue strip 1				8.33%	PET 80% Acrylic 20%	Main: P; Other: Al Si S Cl K Ca Ti Fe Ni Cu; Trace: Mn Co Zn Sb Hf.	Reportable: Al Fe Co Si P;
GK2307-02	24-258 Motorola, Smart Phone Model XT2521, Clear glue strip 2				69.44%	PET 80% Acrylic 20%	Other: Al Si P S Ca Fe Ni Cu; Trace: Cl K Mn Zn Sn Sb Hf.	Reportable: Al Fe;
GK2307-03	24-258 Motorola, Smart Phone Model XT2521, Clear glue strip 3				16.67%	PET 80% Acrylic 20%	Other: Al Si P S Cl K Ca Fe; Trace: Ti Mn Ni Cu Zn.	Reportable: Al Fe P;
GK2307-04	24-258 Motorola, Smart Phone Model XT2521, Clear glue strip 4				2.78%	PET 80% Acrylic 20%	Other: Al Si P S Cl K Ca Fe Ni Cu; Trace: Ti Mn Co Zn Sb.	Reportable: Al Fe Co P;
GK2307-05	24-258 Motorola, Smart Phone Model XT2521, White glue strip				2.78%	PET 80% Acrylic 20%	Other: Al Si P S Cl Ca Fe Ni; Trace: K Ti Mn Cu Zn Sb Hf.	Reportable: Al Fe P;
GK2308-00	24-258 Motorola, Smart Phone Model XT2521, Metallic glue strip 1-4		0.031	0.02%				
GK2308-01	24-258 Motorola, Smart Phone Model XT2521, Metallic glue strip 1				32.26%	PET 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl K Ca Fe; Trace: Mn Co Ga Zr Sn Sb Ta.	Reportable: Al Fe Co Cu; Controlled: Ni.
GK2308-02	24-258 Motorola, Smart Phone Model XT2521, Metallic glue strip 2				6.45%	PET 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl K Ca Fe; Trace: Ti Mn Sb.	Reportable: Al Fe 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. V6 Appendix C relevant compounds ¹⁾
GK2308-03	24-258 Motorola, Smart Phone Model XT2521, Metallic glue strip 3				48.39%	PET 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl K Ca Ti Mn Fe; Trace: Ga Zr Sn Sb Ta.	Reportable: Al Fe Cu P; Controlled: Ni.
GK2308-04	24-258 Motorola, Smart Phone Model XT2521, Metallic glue strip 4				12.90%	PET 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Ca Ti Fe Ta; Trace: Cl K Mn Sn Sb.	Reportable: Al Fe Cu P; Controlled: Ni.
GK2309-00	24-258 Motorola, Smart Phone Model XT2521, Metallic shock pad 1-3		0.084	0.04%				
GK2309-01	24-258 Motorola, Smart Phone Model XT2521, Metallic shock pad 1				1.19%	PAN 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Ca Fe; Trace: Cl K Ti Mn Sn Sb.	Reportable: Al Fe Cu P; Controlled: Ni.
GK2309-02	24-258 Motorola, Smart Phone Model XT2521, Metallic shock pad 2				89.29%	PET 60% PUR 20% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl Ca Ti Fe; Trace: K Mn Sb Ta.	Reportable: Al Fe Cu; Controlled: Ni.
GK2309-03	24-258 Motorola, Smart Phone Model XT2521, Metallic shock pad 3				9.52%	PET 60% PUR 20% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Ca Ti Fe; Trace: Cl K Mn Ga Sb Ta.	Reportable: Al Fe Cu P; Controlled: Ni.
GK2310-00	24-258 Motorola, Smart Phone Model XT2521, Copper glue strip		0.036	0.02%		Metal 80% Acrylic 20%	Main: Ni Cu; Other: Al Si P S Cl K Ca Ti Fe Ta; Trace: Cr Mn Ga Zr Sn Sb Cs Ce.	Reportable: Al Fe Cu; Controlled: Ni.
GK2311-00	24-258 Motorola, Smart Phone Model XT2521, Pink thermal paste		0.315	0.17%		Silicone	Other: Al Si P S Ca Fe; Trace: Cl K Ti Ni Cu Zn Ga Zr Sb Ba La.	Reportable: Al Fe P;
GK2312-00	24-258 Motorola, Smart Phone Model XT2521, Display assembly		17.374	9.16%				
GK2312-01	24-258 Motorola, Smart Phone Model XT2521, Display assembly, Reflection foil				6.73%	PMMA	Other: Al Si P S Ca Mn Fe; Trace: K Co Ni Cu Sb.	Reportable: Al Fe Co;



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. V6 Appendix C relevant compounds ¹⁾
GK2312-02	24-258 Motorola, Smart Phone Model XT2521, Display assembly, Polarization foil 1				5.65%	PET	Main: P Zr; Other: Al Si S Cl Ca Fe Cu Hf; Trace: K Co Ni Ga Y Sb.	Reportable: Al Fe Co Si P;
GK2312-03	24-258 Motorola, Smart Phone Model XT2521, Display assembly, Polarization foil 2				7.98%	PMMA	Main: Zr; Other: Al Si P S Cl Ca Fe Cu Y Hf; Trace: K Co Ni Ga Sb.	Reportable: Al Fe Co Y P;
GK2312-04	24-258 Motorola, Smart Phone Model XT2521, Display assembly, Diffuser foil				4.09%	PET	Other: Al Si P S Ca Ti Fe; Trace: K V Mn Ni Cu Zr Sb.	Reportable: Al Fe P;
GK2312-05	24-258 Motorola, Smart Phone Model XT2521, Display assembly, Diffuser plate				26.42%	PC	Other: Al P Ca; Trace: Si S Fe Ni Cu.	Reportable: Al;
GK2312-06	24-258 Motorola, Smart Phone Model XT2521, Display assembly, Display metal plate				49.14%		Main: Cr Mn Fe Ni; Other: Si P S K V Co Cu Mo; Trace: Al Cl Ca Zn Ge As Rh Ba Pr Tl.	Reportable: Cr Fe Co Cu; Controlled: Ni.
GK2313-00	24-258 Motorola, Smart Phone Model XT2521, Screws		0.704	0.37%				
GK2313-01	24-258 Motorola, Smart Phone Model XT2521, Black screws				95.60%		Main: P Fe Zn; Other: Al Si S Cl K Ti Cr Mn Co Cu Mo Ba; Trace: Ca Ni Ga Ge Ti Bi.	Reportable: Al Cr Fe Co Cu Zn Ba;
GK2313-02	24-258 Motorola, Smart Phone Model XT2521, Silver screw				4.40%		Main: S Fe Zn; Other: Al P Cl Co Ni Cu Ba Th; Trace: Si Ca Ti Cr Mn Ge Y Zr Nb In Sb Tl U.	Reportable: Fe Co Cu Zn Ba; Controlled: Ni.

¹⁾ Relevant compounds based on XRF Screening test results (selected chemical elements). For the speciation of the substances, further testing could be required.
Cd, Cr and are also REACH relevant substances

²⁾ The concentration of DEHP/BBP/DBP/DIBP may be > 0.1% by weight in homogeneous materials where the homogenous material weighs less than 0.02 g

* Brominated Flame Retardants (other than PBBs or PBDEs)

Selection of the samples for the colorimetric testing of CrVI is carried out according to the XRF measurement and a risk assessment.

** Sample tested for CrVI by colorimetric method.

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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.

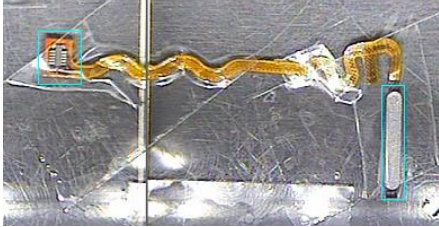


4 Material Assay PWB

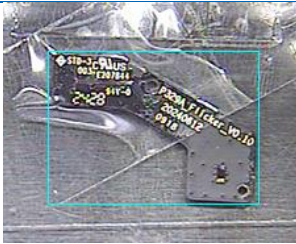
		Sample GK2292-14	
		Result	Uncertainty
Ag	wt. %	0.040%	0.006%
Al	wt. %	0.559%	0.095%
Au	wt. %	0.045%	0.006%
Ba	wt. %	1.588%	0.238%
Be	wt. %	< 0.001%	
Bi	wt. %	< 0.035%	
Br	wt. %	< 0.01%	
Ca	wt. %	1.149%	0.230%
Cd	wt. %	< 0.001%	
Co	wt. %	0.027%	0.005%
Cr	wt. %	1.009%	0.161%
Cu	wt. %	42.195%	7.173%
Fe	wt. %	5.478%	0.876%
Mg	wt. %	0.056%	0.008%
Mn	wt. %	0.067%	0.011%
Mo	wt. %	0.131%	0.022%
Ni	wt. %	2.735%	0.383%
P	wt. %	0.126%	0.020%
Pb	wt. %	0.009%	0.001%
Pd	wt. %	< 0.008%	
S	wt. %	< 0.04%	
Sb	wt. %	< 0.05%	
Sn	wt. %	1.288%	0.206%
Sr	wt. %	0.023%	0.004%
Ti	wt. %	0.508%	0.091%
Y	wt. %	< 0.01%	
Zn	wt. %	< 0.03%	
Substances	wt. %	57.03%	

5 Results EDXRF Scan

Results x,y Scan Sample GK2277-01

	
Bromine	
Not detected	
Lead	
Not detected	

Results x,y Scan Sample GK2281-01

	
Bromine	
Not detected	
Lead	
Not detected	

Results x,y Scan Sample GK2282-03



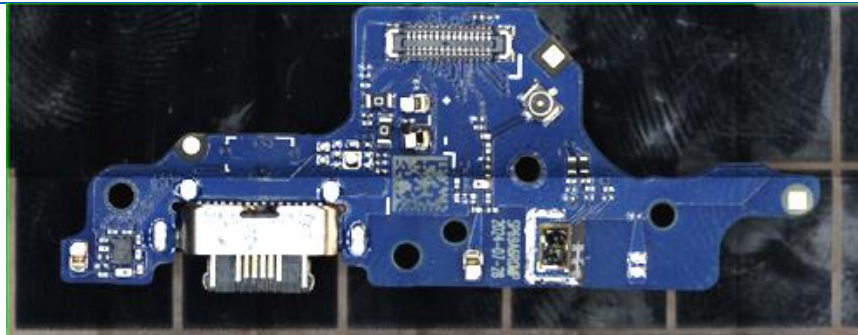
Bromine

Not detected

Lead

Not detected

Results x,y Scan Sample GK2286-05 Top



Bromine

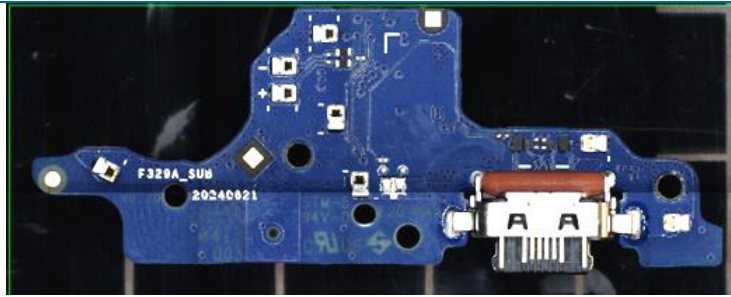
Not detected

Lead

Not detected



Results x,y Scan Sample GK2286-05 Bottom



Bromine

Not detected

Lead

Not detected

Results x,y Scan Sample GK2287-12



Bromine

Not detected

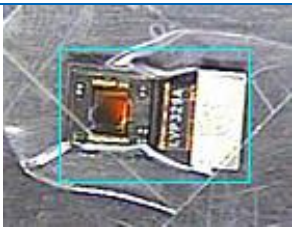
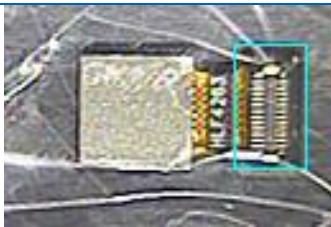
Lead

Not detected

Results x,y Scan Sample GK2287-13

	
Bromine	
Not detected	
Lead	
Not detected	

Results x,y Scan Sample GK2289-06

	
Bromine	
Not detected	Not detected
Lead	
Not detected	Not detected

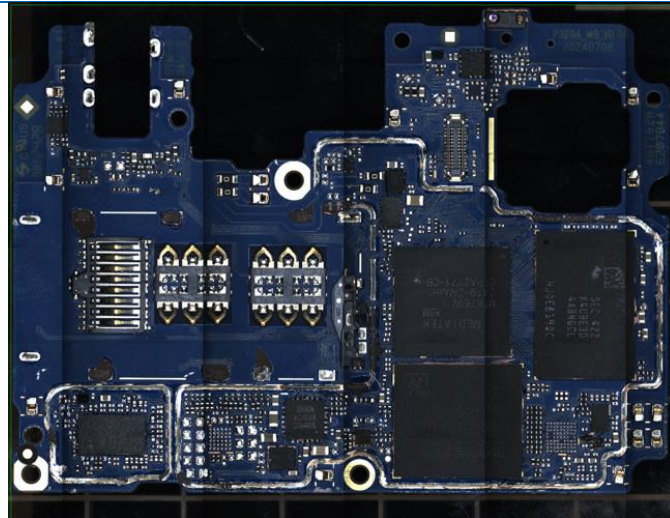
Results x,y Scan Sample GK2290-05

	
Bromine	
Not detected	
Lead	
Not detected	

Results x,y Scan Sample GK2291-17

	
Bromine	
Not detected	
Lead	
Not detected	

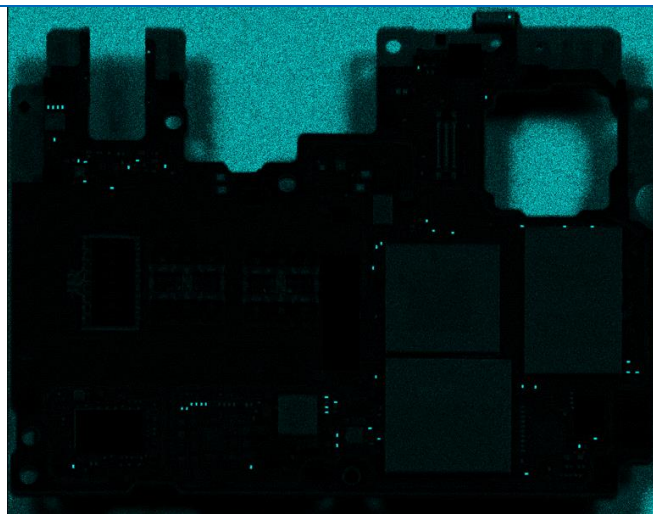
Results x,y Scan Sample GK2292-14 Top



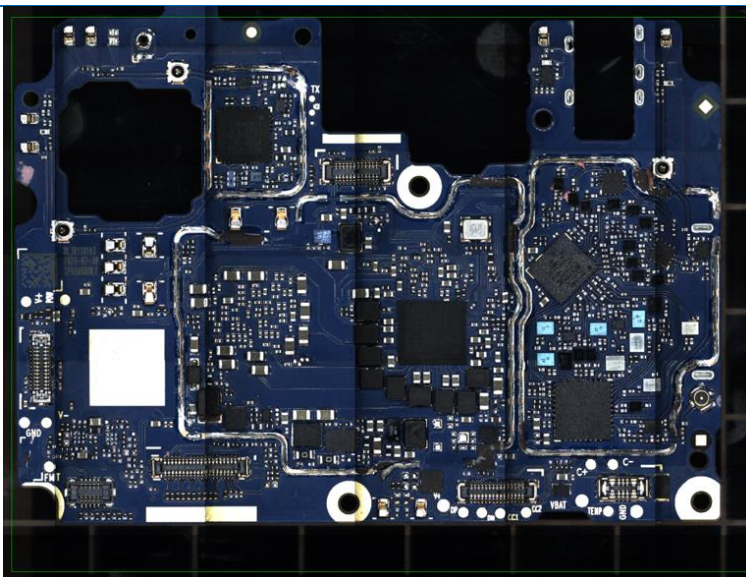
Bromine

Not detected

Lead



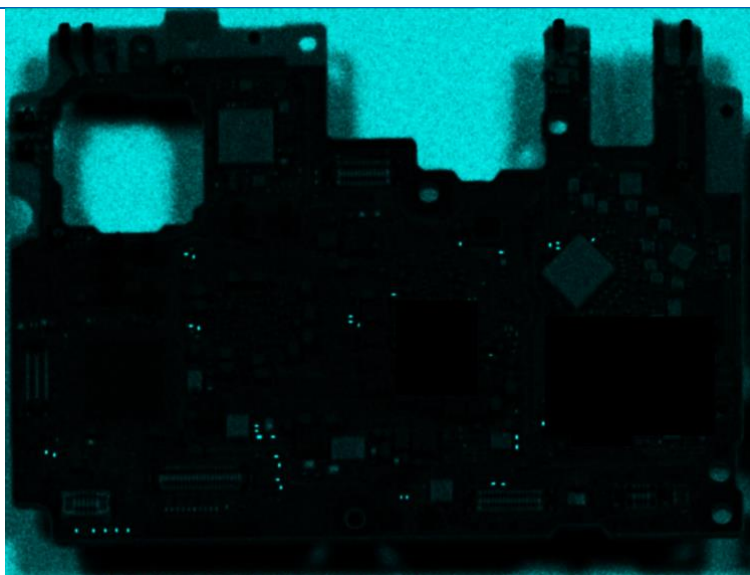
Results x,y Scan Sample GK2292-14 Bottom



Bromine

Not detected

Lead



Results x,y Scan Sample GK2293-14



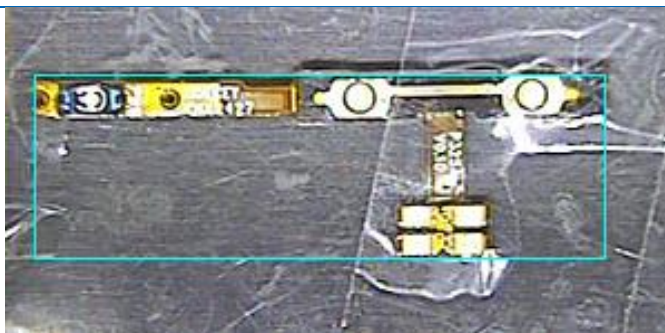
Bromine

Not detected

Lead

Not detected

Results x,y Scan Sample GK2294-05



Bromine

Not detected

Lead

Not detected



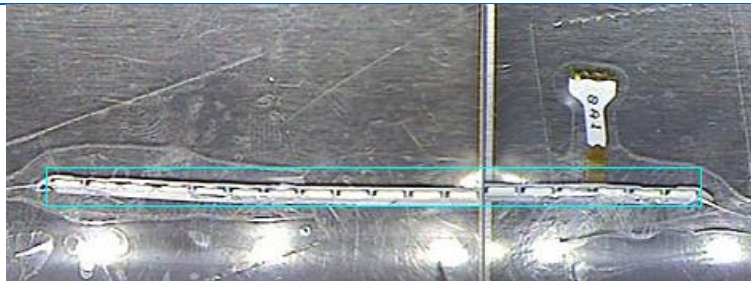
Results x,y Scan Sample GK2295-13

	
Bromine	
Not detected	Not detected
Lead	
	Not detected

Results x,y Scan Sample GK2296-00

	
Bromine	
Not detected	
Lead	
Not detected	

Results x,y Scan Sample GK2298-06



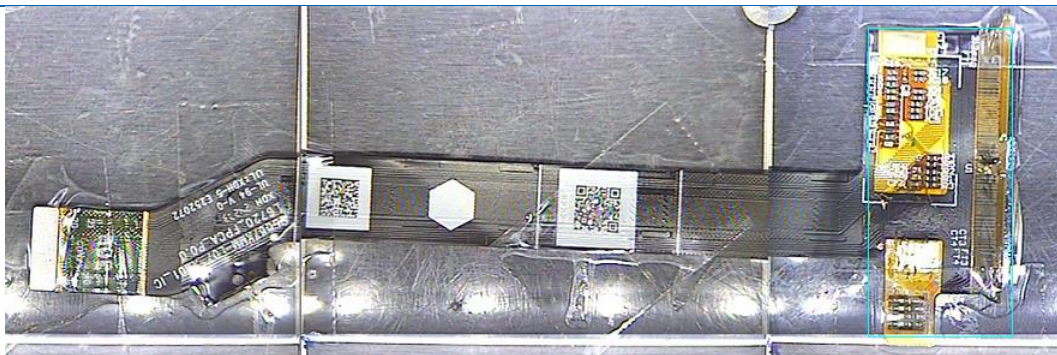
Bromine

Not detected

Lead

Not detected

Results x,y Scan Sample GK2298-07 Top



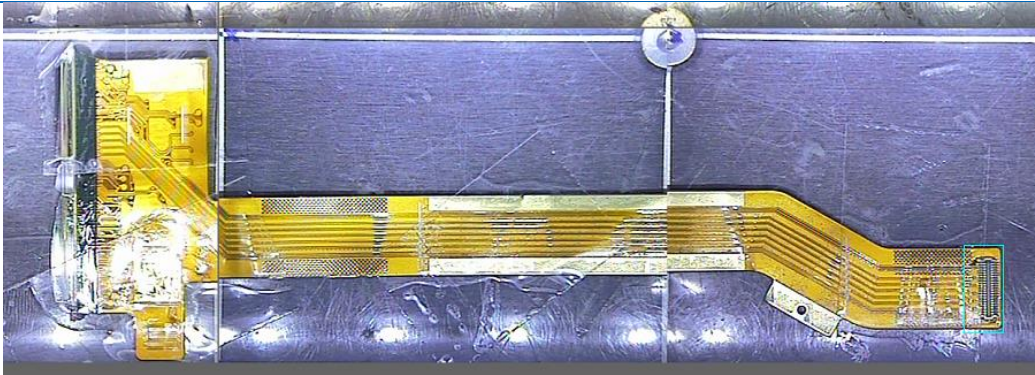
Bromine

Not detected

Lead



Results x,y Scan Sample GK2298-07 Bottom



Bromine
Not detected
Lead
Not detected



6 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 June 27th, 2024, Annex XIV List dated April 08th, 2022 and Annex XVII List dated December 12th, 2023.

Samples summarized in Chapter 9 were selected based on a risk assessment. The samples were investigated for selected organic parameters as listed in Chapters 6.2 and 6.3. 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 6.2. and 6.3. For the speciation of these substances, further testing could be required.



6.1 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 Annex XIV Substance Detected	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction (% w/w) ¹⁾	Substance concentration in article (% w/w) ²⁾	SVHC > 0.1% Reporting required? ²⁾ (Y/N/ Risk)
Smart Phone Model XT2521	GM1596	Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.006	< 0.001	N
		4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.017	< 0.001	N
	GM1597	4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.005	< 0.001	N
		DNBP (CAS: 93952-11-5)	DNBP (CAS: 93952-11-5)	DNBP (CAS: 93952-11-5)	0.004	< 0.001	N
	GM1598	Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.004	< 0.001	N
		4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.007	< 0.001	N
		4-tert-amylphenol (CAS: 80-46-6)	-	-	0.004	< 0.001	N
	GM1599	Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.001	< 0.001	N
		2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS: 71868-10-5)	-	-	0.005	< 0.001	N



Article	Sample Number	REACH SVHC Substance Detected	REACH Annex XIV Substance Detected	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction (% w/w) ¹⁾	Substance concentration in article (% w/w) ²⁾	SVHC > 0.1% Reporting required? ²⁾ (Y/N/ Risk)
Smart Phone Model XT2521	GM1600	Decamethyl-cyclopentasiloxane (D5) (CAS: 541-02-6)	-	Decamethyl-cyclopentasiloxane (D5) (Entry 70)	0.001	< 0.001	N
		Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.001	< 0.001	N
		4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.006	< 0.001	N
	GM1601	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS: 71868-10-5)	-	-	0.005	< 0.001	N
	GM1602	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS: 71868-10-5)	-	-	0.004	< 0.001	N
	GM1604	4-tert-amylphenol (CAS: 80-46-6)	-	-	0.002	< 0.001	N
	GM1605	4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.011	0.001	N
		4-tert-amylphenol (CAS: 80-46-6)	-	-	0.004	< 0.001	N
	GM1606	Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.001	< 0.001	N
	GM1607	-	-	Toluene (Entry 48)	0.001	< 0.001	N
		4-methyl-m-phenylenediamine (toluene-2,4-diamine) (CAS: 95-80-7)	-	2,4-Diaminotoluene (Entry 28)	0.006	< 0.001	N



Article	Sample Number	REACH SVHC Substance Detected	REACH Annex XIV Substance Detected	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction (% w/w) ¹⁾	Substance concentration in article (% w/w) ²⁾	SVHC > 0.1% Reporting required? ²⁾ (Y/N/ Risk)
Smart Phone Model XT2521	GM1608	Octamethylcyclotetrasiloxane (D4) (CAS: 556-67-2)	-	Octamethylcyclotetrasiloxane (D4) (Entry 70)	0.001	< 0.001	N
		Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.001	< 0.001	N
	GM1609	4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.012	< 0.001	N
		4,4'-(1,3-Dimethylbutylidene)bisphenol (CAS: 6807-17-6)	-	-	0.001	< 0.001	N
	GM1610	Furan (CAS: 110-00-9)	-	Furan (Entry 28)	0.001	< 0.001	N
		Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.003	< 0.001	N
		4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.003	< 0.001	N
	GM1611	Furan (CAS: 110-00-9)	-	Furan (Entry 28)	0.002	< 0.001	N
		Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.003	0.001	N
		4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.003	0.001	N
	GM1612	Decamethylcyclopentasiloxane (D5) (CAS: 541-02-6)	-	Decamethylcyclopentasiloxane (D5) (Entry 70)	0.001	< 0.001	N



Article	Sample Number	REACH SVHC Substance Detected	REACH Annex XIV Substance Detected	REACH Annex XVII Substance Detected*	Substance Concentration in Fraction (% w/w) ¹⁾	Substance concentration in article (% w/w) ²⁾	SVHC > 0.1% Reporting required? ²⁾ (Y/N/ Risk)
Smart Phone Model XT2521	GM1613	Decamethyl-cyclopentasiloxane (D5) (CAS: 541-02-6)	-	Decamethyl-cyclopentasiloxane (D5) (Entry 70)	0.001	< 0.001	N
	GM1614	-	-	-	-	-	-
	GM1615	-	-	-	-	-	-
	GM1616	4-tert-amylphenol (CAS: 80-46-6)	-	-	0.004	< 0.001	N
	GM1617	-	-	-	-	-	N
	GM1618	Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.001	< 0.001	N
	GM1619	4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.011	< 0.001	N
		4-tert-amylphenol (CAS: 80-46-6)	-	-	0.003	< 0.001	N
	GM1620	Dodecamethylcyclohexasiloxane (D6) (CAS: 540-97-6)	-	Dodecamethylcyclohexasiloxane (D6) (Entry 70)	0.001	< 0.001	N
		4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.016	< 0.001	N
	GM1621	4-tert-butylphenol ³⁾ (CAS: 98-54-4)	-	-	0.060	0.001	N
	GM1621	4-tert-amylphenol (CAS: 80-46-6)	-	-	0.004	< 0.001	N

¹⁾ For the composition of fractions please refer to Chapter 9. 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 homogeneous material may not be achieved.

³⁾ Depending on the manufacturing process of 4-tert-butylphenol a certain ratio of 3-tert-butylphenol may also be present
NA: Not applicable



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



6.2 List of SVHC and Annex XIV substances

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol ¹⁾	
2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one ¹⁾	Bumetrizole (UV-326)
2,4,6-tri-tert-butylphenol	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)
Bis(4-chlorophenyl) sulphone	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide ¹⁾
Perfluoroheptanoic acid and its salts	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine ¹⁾
Isobutyl 4-hydroxybenzoate (4-Isobutylparaben) ¹⁾	Melamine ¹⁾
Barium diboron tetraoxide ¹⁾	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA)	4,4'-sulphonyldiphenol (Bisphenol S) ¹⁾
N-(hydroxymethyl)acrylamide ¹⁾	1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene]
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate ¹⁾	Tris(2-methoxyethoxy)vinylsilane
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) ¹⁾	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
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 ¹⁾	4,4'-(1-methylpropylidene)bisphenol (BPB)
1,4-dioxane	2,2-bis(bromomethyl)propane, 1,3-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	Diocetyl tin 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 ¹⁾	Dibutylbis(pentane-2,4-dionato-O,O')tin ²⁾
1-vinylimidazole ¹⁾	2-methylimidazole ¹⁾
Perfluorobutane sulfonic acid (PFBS) and its salts	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) 9)}
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]octadec- α -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
4,4'-isopropylidenediphenol (BPA)	4-heptylphenol, branched and linear
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	Nonadecafluorodecanoic acid
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	Perfluorononan-1-oic-acid
Sodium salts of perfluorononan-1-oic-acid	Ammonium salts of perfluorononan-1-oic-acid
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)	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
Henicosafuoroundecanoic acid	Heptacosafuorotetradecanoic acid
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
Pentacosafuorotridecanoic acid	Orange lead (lead tetroxide) ²⁾
Pyrochlore, antimony lead yellow ²⁾	Pentalead tetraoxide sulphate ²⁾
Silicic acid, lead salt ²⁾	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped ²⁾
Tetraethyllead ^{2)*}	Sulfurous acid, lead salt, dibasic ²⁾
Tricosafuorododecanoic acid	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-	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic



ylidene] dimethylammonium chloride (C.I. Basic Blue 26) ¹⁾	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 ¹⁾	Pentazinc chromate octahydroxide ^{2,3)*}
Trilead diarsenate ²⁾	Potassium hydroxyoctaoxidizincatedichromate ^{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 ¹⁾	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) ^{1)*}	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 reasons of overlapping retention ranges, a differentiation between short and medium is only partially possible. Additionally, the signal peak in the gas chromatogram has no ideal gaussian shape. The resulting measurement uncertainty can lead to higher deviations between concentrations of the samples

⁹⁾ TNPP are indicator peaks. A definite identification is only possible via further chemical analysis.

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

6.3 List of REACH Annex XVII substances

77. Formaldehyde and formaldehyde releasers ¹⁾	78. Synthetic polymer microparticles ²⁾
75. (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008 ²⁾ (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council ²⁾ (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. ²⁾	76. <i>N,N</i> -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) ²⁾	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 ^{2) 6)}
69. Methanol ²⁾	70. Octamethylcyclotetrasiloxane (D4) ²⁾ Decamethylcyclopentasiloxane (D5) ²⁾
67. Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) ⁸⁾	68. C9-C14 linear and/or branched perfluorocarboxylic acids (C9-C14 PFCAs), their salts and C9-C14 PFCAs-related substances, perfluorononan-1-oic acid (PFNA); nonadecafluorodecanoic acid (PFDA); heneicosfluoroundecanoic acid (PFUnDA); tricosfluorododecanoic acid (PFDoDA); pentacosfluorotridecanoic acid (PFTrDA); heptacosfluorotetradecanoic acid (PFTDA); including their salts and precursors
65. Inorganic ammonium salts ²⁾	66. 4,4'-isopropylidenediphenol (Bisphenol A) ²⁾
63. Lead and its compounds ^{2) 3)}	64. 1,4-Dichlorobenzene ²⁾
61. Dimethylfumarate (DMF)	62. Phenylmercury neodecanoate ³⁾ Phenylmercury octanoate ³⁾ Phenylmercury propionate ³⁾ Phenylmercury acetate ³⁾ Phenylmercury 2-ethylhexanoate ³⁾
59. Dichloromethane ²⁾	60. Acrylamide ²⁾
57. Cyclohexane	58. Ammonium nitrate (AN) ²⁾
55. 2-(2-butoxyethoxy)ethanol (DEGBE) ²⁾	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) ²⁾ (b) Di-'isodecyl' phthalate (DIDP) ²⁾ (c) Di-n-octyl phthalate (DNOP) ²⁾ (d) 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich ²⁾ (e) 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich ²⁾	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)	51. (a) Bis (2-ethylhexyl) phthalate (DEHP) ²⁾ (b) Dibutyl phthalate (DBP) ²⁾ (c) Benzyl butyl phthalate (BBP) ²⁾



(g) Benzo[k]fluoranthene (BkFA) (h) Dibenzo[a,h]anthracene (DBAhA)	
48. Toluene	49. Trichlorobenzene
	47. Chromium VI compounds ²⁾
46. (a) Nonylphenol ^{2) 6)} (b) Nonylphenol ethoxylates ^{2) 6)}	46a. Nonylphenol ethoxylates ^{2) 6)}
43. Azocolourants and Azodyes ^{2) 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. ²⁾	41. Hexachloroethane ²⁾
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 ²⁾ (b) Creosote oil; wash oil ²⁾ (c) Distillates (coal tar), naphthalene oils; naphthalene oil ²⁾ (d) Creosote oil, acenaphthene fraction; wash oil ²⁾ (e) Distillates (coal tar), upper; heavy anthracene oil ²⁾ (f) Anthracene oil ²⁾ (g) Tar acids, coal, crude; crude phenols ²⁾ (h) Creosote, wood ²⁾ (i) Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline ²⁾
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 ^{1) 3)}	27. Nickel and its compounds ³⁾
24. Monomethyl — tetrachlorodiphenyl methane Trade name: Ugilec 141 ^{1) 3)}	25. Monomethyl-dichloro-diphenyl methane Trade name: Ugilec 121 ^{1) 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 ₈ H ₁₉ BO ₃ Sn (DBB) ³⁾
18a. Mercury ^{2) 3)}	19. Arsenic compounds ^{2) 3)}
17. Lead sulphates ³⁾ : (a) PbSO ₄ (b) Pb _x SO ₄	18. Mercury compounds ^{2) 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 its salts ⁷⁾	14. 4-Nitrobiphenyl
11. Volatile esters of bromoacetic acids ²⁾ : (a) Methyl bromoacetate (b) Ethyl bromoacetate (c) Propyl bromoacetate (d) Butyl bromoacetate	12. 2-Naphthylamine and its salts ⁷⁾



9. (a) Soap bark powder (Quillaja saponaria) and its derivatives containing saponines ²⁾ (b) Powder of the roots of Helleborus viridis and Helleborus niger ²⁾ (c) Powder of the roots of Veratrum album and Veratrum nigrum ²⁾ (d) Benzidine and/or its derivatives ²⁾ (e) o-Nitrobenzaldehyde C ²⁾ (f) Wood powder ²⁾	10. (a) Ammonium sulphide ²⁾ (b) Ammonium hydrogen sulphide ²⁾ (c) Ammonium polysulphide ²⁾
7. Tris(aziridinyl)phosphin oxide ^{2) 6)}	8. Polybromobiphenyls; Polybrominatedbiphenyls (PBB) ^{2) 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 11)/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 ²⁾	4. Tris (2,3 dibromopropyl) phosphate ^{2) 6)}
1. Polychlorinated terphenyls (PCTs) ^{3) 7)}	2. Chloroethene (vinyl chloride) ²⁾

¹⁾ Not tested

²⁾ N/A the restriction does not apply to this article

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

⁸⁾ See Chapter " Global Compliance Acceptance Criteria (banned and controlled Substances)"

⁹⁾ Regulation (EU) No 2020/2096: entries 22 and 67 have been deleted (more severe restrictions are laid down for those substances in Regulation (EU) 2019/1021 POP)



7 Test Results PAH

PAK / PAH	GM1596	GM1597	GM1598
Benz[a]anthracene (mg/kg)	ND	ND	ND
Chrysene (mg/kg)	ND	ND	ND
Benzo[b]fluoranthene (mg/kg)	ND	ND	ND
Benzo[k]fluoranthene (mg/kg)	ND	ND	ND
Benzo[j]fluoranthene (mg/kg)	ND	ND	ND
Benzo[e]pyrene (mg/kg)	ND	ND	ND
Benzo[a]pyrene (mg/kg)	ND	ND	ND
Dibenz[a,h]anthracene (mg/kg)	ND	ND	ND
1907/2006/EC REACH Annex XVII Entry 50	Pass	Pass	Pass

ND: Not detected

Limit of Detection for all substances 0.5 mg/kg

* REACH SVHC screening results.

**8 Test Results PFAS acc. to REACH Annex XVII Entry 68**

PFAS	GK2288-04	GK2288-06
PFOA (µg/kg)	ND	ND
PFNA (µg/kg)	ND	ND
PFDA (µg/kg)	ND	ND
PFUA (µg/kg)	ND	ND
PFDaA (µg/kg)	ND	ND
PFTriA (µg/kg)	ND	ND
PFTetraA	ND	ND
Sum C9-C14 (µg/kg)	-	-
1907/2006/EC REACH Annex XVII Entry 68	Pass	Pass

ND: Not detected

Limit of Quantification for all substances 1 µg/kg.



9 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]
Smart Phone Model XT2521	189.73	0.16	GM1596	GK2275-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, SIM card holder, Black plastic part	0.09%	0.16

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.70	GM1597	GK2275-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, SIM card holder, Red sealing	0.01%	0.02
				GK2276-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Backside cover, Soft cover	0.36%	0.68

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	9.12	GM1598	GK2284-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black plastic frame	4.81%	9.12

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	2.20	GM1599	GK2277-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Power button flex	0.12%	0.23
				GK2281-00	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Light sensor PWB	0.13%	0.25
				GK2282-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Flashlight, PWB	0.19%	0.36



					GK2289-06	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Rear camera 1, Flex	0.09%	0.17
					GK2294-05	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Volume button flex	0.11%	0.20
					GK2286-05	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, SUB PWB	0.52%	0.99

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.13	GM1600	GK2287-12	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Vibra cell, Flex	0.00%	0.01
				GK2287-13	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Vibra cell, PWB	0.01%	0.02
				GK2285-11	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Bottom speaker, Flex	0.01%	0.02
				GK2298-06	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Display connection flex, LED flex	0.03%	0.06
				GK2293-14	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Top speaker, Flex	0.01%	0.02

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	8.79	GM1601	GK2292-14	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Main PWB	4.63%	8.79



Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	2.25	GM1602	GK2290-05	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Front camera, Flex	0.05%	0.10
				GK2291-17	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Rear camera 2, Flex	0.15%	0.29
				GK2295-13	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Battery, Flex grid	0.30%	0.58
				GK2296-00	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Connection flex	0.27%	0.52
				GK2298-07	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Display connection flex	0.41%	0.77

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.55	GM1604	GK2276-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Backside cover, Logo	0.03%	0.06
				GK2278-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Volume button	0.04%	0.07
				GK2282-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Flashlight	0.03%	0.06
				GK2284-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black plastic frame, Black glue	0.18%	0.35
				GK2285-06	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Bottom speaker, Membrane	0.01%	0.02



Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	13.41	GM1605	GK2276-04	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Backside cover	4.60%	8.73
				GK2299-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Metal housing, Black plastic part	2.47%	4.68

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.11	GM1606	GK2277-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Power button flex, Soft plastic plate	0.01%	0.03
				GK2278-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Volume button, Clear seal	0.01%	0.02
				GK2279-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, NFC Flex	0.04%	0.07

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.30	GM1607	GK2280-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Antenna flex 1	0.05%	0.09
				GK2280-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Antenna flex 3	0.08%	0.15
				GK2280-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Antenna flex 2	0.03%	0.06



Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.26	GM1608	GK2279-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, NFC Flex, Black glue strip	0.03%	0.07
				GK2286-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, SUB PWB, Black soft plastic part	0.06%	0.11
				GK2292-04	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Main PWB, Black glue strip	0.04%	0.08

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	1.33	GM1609	GK2285-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Bottom speaker, Black plastic housing	0.52%	0.98
				GK2289-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Rear camera 1, Black plastic housing	0.06%	0.11
				GK2290-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Front camera, Black plastic part	0.05%	0.09
				GK2291-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Rear camera 2, Black plastic part 1	0.06%	0.12
				GK2291-04	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Rear camera 2, Black plastic part 2	0.02%	0.04

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	4.14	GM1610	GK2295-04	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Battery, White foil	2.18%	4.14



Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	44.49	GM1611	GK2295-09	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Battery, Carbon coating	23.45%	44.49

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.30	GM1612	GK2295-06	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Battery, Blue glue strips	0.03%	0.05
				GK2295-10	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Battery, Black glue strips	0.09%	0.17
				GK2295-11	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Battery, White/Black glue strip	0.04%	0.08

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.44	GM1613	GK2302-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black glue 1	0.17%	0.32
				GK2302-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black glue 2	0.04%	0.08
				GK2302-04	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black glue 4+5+6+7	0.02%	0.04

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.93	GM1614	GK2303-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black shock pad 1	0.46%	0.87
				GK2303-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black shock pad 3	0.01%	0.03
				GK2303-09	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black shock pad 11	0.02%	0.04



Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	1.23	GM1615	GK2305-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black glue foil 1	0.04%	0.09
				GK2305-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black glue foil 2	0.30%	0.57
				GK2305-05	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black glue foil 5	0.30%	0.57

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	3.54	GM1616	GK2312-01	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Display assembly, Reflection foil	0.62%	1.17
				GK2312-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Display assembly, Polarization foil 1	0.52%	0.98
				GK2312-03	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Display assembly, Polarization foil 2	0.73%	1.39

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.12	GM1617	GK2289-05	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Rear camera 1, Lenses	0.01%	0.03
				GK2290-04	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Front camera, Lenses	0.02%	0.04
				GK2291-16	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Rear camera 2, Lenses	0.03%	0.05

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.71	GM1618	GK2292-13	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Main PWB, Pink thermal paste	0.21%	0.40



GK2311-00	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Pink thermal paste	0.17%	0.32
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Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.41	GM1619	GK2292-12	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Main PWB, Black plastic contact holder	0.08%	0.16
				GK2293-13	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Top speaker, Black plastic part	0.02%	0.04
				GK2301-02	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black plastic clamp	0.05%	0.10
				GK2301-04	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Gray plastic frame	0.06%	0.11

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	0.07	GM1620	GK2288-04	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black connection cable, Black cable jacket	0.01%	0.03
				GK2288-06	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Black connection cable, White cable jacket	0.02%	0.04

Article	Total Weight article [g]	Fraction weight [g]	Fraction Sample No.	Initial Sample No.	Description	Relative Weight in Article	Sample weight [g]
Smart Phone Model XT2521	189.73	4.59	GM1621	GK2312-05	24-258 Motorola, Smart Phone Model XT2521 Model XT2521, Display assembly, Diffuser plate	2.42%	4.59

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