

VDE Testing and Certification Institute • Merianstr. 28 • 63069 Offenbach • Germany

Date: July 1st, 2024
From: Dr. Michael Riess,
To: VDE Motorola/Lenovo

Subject: **Recyclability and Recoverability Report by VDE Testing and Certification Institute**

XT2409 Series

Description of Methodology


The calculation is based on a disassembly assessment of the product. The disassembly is done down to the level of “functional units” similar to what is done in recycling facilities. Based on Material Assessment data the composition of each functional unit is evaluated regarding compatibility of the overall material composition of the functional unit with material fractions, similar to the requirements of the European WEEE directive 2012/19/EU.

The functional unit material compatibility assessment allows the calculation of the recyclability and recoverability¹⁾. Formulas for calculation:

$$\text{recyclability} = \frac{\sum(\text{mass of recyclable product fractions/materials})}{(\text{total mass of product})} \times 100$$

$$\text{recoverability} = \frac{\sum(\text{mass of recyclable product fractions/materials} + \text{mass of further serving useful purpose product material-mixes})}{(\text{total mass of product})} \times 100$$

¹⁾ Percentage of materials that are compatible with materials recycling processes or that can go into energy recovery process

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Annex

Based on Testreport-319422-TL7-1 the product achieves a recycling quote of 69.71 % and a recovery quote of 94.27 %.

Required Records:

1. Total weight of mobile phone (with Battery): 171.181 g = 0.377 lbs
2. Fraction Assessment for recycling:

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Aluminum	GG2031-01	24-120 Smart Phone Vienna24, Model XT2409, Metal ring 1 + 2	0,740	0,740	100%	YES	
Aluminum	GG2031-02	24-120 Smart Phone Vienna24, Model XT2409, Metal ring 3	0,129	0,129	100%	YES	
Aluminum	GG2031-03	24-120 Smart Phone Vienna24, Model XT2409, Metal ring 4	0,110	0,110	100%	YES	
Aluminum	GG2033-00	24-120 Smart Phone Vienna24, Model XT2409, Metallic foil	1,390	1,390	100%	YES	
Aluminum	GG2048-00	24-120 Smart Phone Vienna24, Model XT2409, Thermal paste	0,325	0,325	100%	YES	
Battery	GG2002-00	24-120 Smart Phone Vienna24, Model XT2409, Battery	55,433	55,433	100%	YES	
Copper Alloy	GG2016-01	24-120 Smart Phone Vienna24, Model XT2409, Copper glue strip 1	0,169	0,169	100%	YES	
Copper Alloy	GG2016-02	24-120 Smart Phone Vienna24, Model XT2409, Copper glue strip 2	0,213	0,213	100%	YES	
Copper Alloy	GG2017-00	24-120 Smart Phone Vienna24, Model XT2409, Copper plate	4,304	4,304	100%	YES	
Ferrous Alloy	GG2030-00	24-120 Smart Phone Vienna24, Model XT2409, Metal plate 1	0,340	0,340	100%	YES	
Ferrous Alloy	GG2045-01	24-120 Smart Phone Vienna24, Model XT2409, Silver screws 1+2	0,701	0,701	100%	YES	
Ferrous Alloy	GG2045-02	24-120 Smart Phone Vienna24, Model XT2409, Silver screw 3	0,028	0,028	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Glass	GG2020-00	24-120 Smart Phone Vienna24, Model XT2409, Display front glass	15,761	15,761	100%	YES	
Glass	GG2023-01	Smart Phone Vienna24, Model XT2409, Glass lens 1	0,099	0,099	100%	YES	
Glass	GG2023-02	Smart Phone Vienna24, Model XT2409, Glass lens 2	0,100	0,100	100%	YES	
Glass	GG2023-03	Smart Phone Vienna24, Model XT2409, Glass lens 3+4	0,237	0,237	100%	YES	
Non recyclable	GG2001-00	24-120 Smart Phone Vienna24, Model XT2409, Backside cover	9,801	0	0%	NO	Non remeltable
Non recyclable	GG2004-02	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 2	0,125	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2004-03	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 3	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2004-04	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 4	0,010	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2004-05	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 5	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2004-06	24-120 Smart Phone Vienna24, Model XT2409, Black glue pads 6+7	0,014	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2004-07	24-120 Smart Phone Vienna24, Model XT2409, Black glue pads 8+9	0,022	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2004-08	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 10	0,076	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2004-09	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 11	0,112	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2005-01	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 1	0,07	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2005-02	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 2	0,574	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2005-03	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 3	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2005-05	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 5	0,065	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2005-06	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 6	0,482	0	0%	NO	Material Mix more than 5% differing materials

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Non recyclable	GG2005-08	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 8	0,035	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2006-00	24-120 Smart Phone Vienna24, Model XT2409, Black plastic cover 1	3,370	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2007-00	24-120 Smart Phone Vienna24, Model XT2409, Black plastic cover 2	0,945	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2008-00	24-120 Smart Phone Vienna24, Model XT2409, Black plastic net	0,034	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2013-01	24-120 Smart Phone Vienna24, Model XT2409, Clear glue 1	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2013-03	24-120 Smart Phone Vienna24, Model XT2409, Clear glue 3	0,006	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2014-01	24-120 Smart Phone Vienna24, Model XT2409, Clear glue strip 1	0,095	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2014-02	24-120 Smart Phone Vienna24, Model XT2409, Clear glue strip 2	0,06	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2019-01	24-120 Smart Phone Vienna24, Model XT2409, Display foils, Display front foil	1,54	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2019-02	24-120 Smart Phone Vienna24, Model XT2409, Display foils, Display back foil	1,860	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2025-00	24-120 Smart Phone Vienna24, Model XT2409, Housing frame	30,754	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2026-01	24-120 Smart Phone Vienna24, Model XT2409, Label 1	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2026-02	24-120 Smart Phone Vienna24, Model XT2409, Label 2	0,006	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2026-03	24-120 Smart Phone Vienna24, Model XT2409, Label 3	0,006	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2026-04	24-120 Smart Phone Vienna24, Model XT2409, Label 4	0,003	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2026-05	24-120 Smart Phone Vienna24, Model XT2409, Label 5	0,008	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2026-06	24-120 Smart Phone Vienna24, Model XT2409, Label 6	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2032-01	Smart Phone Vienna24, Model XT2409, Metallic foam pad 1	0,002	0	0%	NO	Material Mix more than 5% differing materials

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Non recyclable	GG2032-02	Smart Phone Vienna24, Model XT2409, Metallic foam pad 2	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2032-03	Smart Phone Vienna24, Model XT2409, Metallic foam pad 3	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2034-01	24-120 Smart Phone Vienna24, Model XT2409, Metallic glue strip 1	0,008	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2034-02	24-120 Smart Phone Vienna24, Model XT2409, Metallic glue strip 2	0,008	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2034-03	24-120 Smart Phone Vienna24, Model XT2409, Metallic glue strip 3	0,095	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2035-01	24-120 Smart Phone Vienna24, Model XT2409, Metallic shock pads 1	0,010	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2035-02	24-120 Smart Phone Vienna24, Model XT2409, Metallic shock pads 2	0,040	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2035-03	24-120 Smart Phone Vienna24, Model XT2409, Metallic shock pads 3	0,029	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2035-04	24-120 Smart Phone Vienna24, Model XT2409, Metallic shock pads 4	0,012	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-01	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 1	0,908	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-02	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 2	0,140	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-03	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 3	0,034	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-04	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 4	0,040	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-05	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 5	0,011	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-06	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 6	0,010	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-07	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 7	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-08	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 8	0,028	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-09	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 9	0,001	0	0%	NO	Material Mix more than 5% differing materials

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Non recyclable	GG2044-10	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 10	0,010	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-11	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 11	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-12	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 12	0,004	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-13	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 13	0,005	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2044-14	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 14	0,045	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2047-00	24-120 Smart Phone Vienna24, Model XT2409, SIM card holder	0,270	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2052-01	24-120 Smart Phone Vienna24, Model XT2409, Yellow glue strip 1	0,015	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GG2052-02	24-120 Smart Phone Vienna24, Model XT2409, Yellow glue strip 2	0,018	0	0%	NO	Material Mix more than 5% differing materials
PWB and mixed Electronics	GG2002-04	24-120 Smart Phone Vienna24, Model XT2409, Battery, Flex rigid	1,53	1,530	100%	YES	
PWB and mixed Electronics	GG2003-00	24-120 Smart Phone Vienna24, Model XT2409, Black cable	0,155	0,155	100%	YES	
PWB and mixed Electronics	GG2009-00	24-120 Smart Phone Vienna24, Model XT2409, Blue cable	0,203	0,203	100%	YES	
PWB and mixed Electronics	GG2010-00	24-120 Smart Phone Vienna24, Model XT2409, Bottom speaker	2,930	2,930	100%	YES	
PWB and mixed Electronics	GG2012-00	24-120 Smart Phone Vienna24, Model XT2409, Charging PWB	1,033	1,033	100%	YES	
PWB and mixed Electronics	GG2015-00	24-120 Smart Phone Vienna24, Model XT2409, Connection flex	0,783	0,783	100%	YES	
PWB and mixed Electronics	GG2018-00	24-120 Smart Phone Vienna24, Model XT2409, Display flex	1,105	1,105	100%	YES	
PWB and mixed Electronics	GG2021-00	24-120 Smart Phone Vienna24, Model XT2409, Flex 1	0,510	0,510	100%	YES	
PWB and mixed Electronics	GG2022-00	24-120 Smart Phone Vienna24, Model XT2409, Front camera	0,255	0,255	100%	YES	
PWB and mixed Electronics	GG2027-00	24-120 Smart Phone Vienna24, Model XT2409, Flashlight PWB	0,294	0,294	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
PWB and mixed Electronics	GG2029-00	24-120 Smart Phone Vienna24, Model XT2409, Main PWB	14,581	14,581	100%	YES	
PWB and mixed Electronics	GG2036-00	24-120 Smart Phone Vienna24, Model XT2409, Mute button flex	0,960	0,960	100%	YES	
PWB and mixed Electronics	GG2037-00	24-120 Smart Phone Vienna24, Model XT2409, NFC flex	2,718	2,718	100%	YES	
PWB and mixed Electronics	GG2038-00	24-120 Smart Phone Vienna24, Model XT2409, PWB 1	0,082	0,082	100%	YES	
PWB and mixed Electronics	GG2039-00	24-120 Smart Phone Vienna24, Model XT2409, Rear camera 1	2,372	2,372	100%	YES	
PWB and mixed Electronics	GG2040-00	24-120 Smart Phone Vienna24, Model XT2409, Rear camera 2	1,610	1,610	100%	YES	
PWB and mixed Electronics	GG2041-00	24-120 Smart Phone Vienna24, Model XT2409, Rear camera 3	0,655	0,655	100%	YES	
PWB and mixed Electronics	GG2043-00	24-120 Smart Phone Vienna24, Model XT2409, Sensor flex	0,140	0,140	100%	YES	
PWB and mixed Electronics	GG2046-00	24-120 Smart Phone Vienna24, Model XT2409, SIM card PWB	0,950	0,950	100%	YES	
PWB and mixed Electronics	GG2049-00	24-120 Smart Phone Vienna24, Model XT2409, Top speaker	0,966	0,966	100%	YES	
PWB and mixed Electronics	GG2050-00	24-120 Smart Phone Vienna24, Model XT2409, Vibra cell	1,160	1,160	100%	YES	
PWB and mixed Electronics	GG2051-00	24-120 Smart Phone Vienna24, Model XT2409, White cable	0,204	0,204	100%	YES	
Recyclable Plastic	GG2004-01	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 1	0,400	0,400	100%	YES	
Recyclable Plastic	GG2005-04	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 4	0,103	0,103	100%	YES	
Recyclable Plastic	GG2005-07	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 7	0,04	0,040	100%	YES	
Recyclable Plastic	GG2011-00	24-120 Smart Phone Vienna24, Model XT2409, Brand label	0,049	0,049	100%	YES	
Recyclable Plastic	GG2013-02	24-120 Smart Phone Vienna24, Model XT2409, Clear glue 2	0,001	0,001	100%	YES	
Recyclable Plastic	GG2024-00	24-120 Smart Phone Vienna24, Model XT2409, Gray plastic plate	0,060	0,060	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Recyclable Plastic	GG2028-00	24-120 Smart Phone Vienna24, Model XT2409, Light guide	0,123	0,123	100%	YES	
Recyclable Plastic	GG2042-00	24-120 Smart Phone Vienna24, Model XT2409, Rear camera cover	3,279	3,279	100%	YES	
			171,181	119,330			

3. Fraction Assessment for recovery:

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Aluminum	GG2031-01	24-120 Smart Phone Vienna24, Model XT2409, Metal ring 1 + 2	0,740	0,740	100%	YES	
Aluminum	GG2031-02	24-120 Smart Phone Vienna24, Model XT2409, Metal ring 3	0,129	0,129	100%	YES	
Aluminum	GG2031-03	24-120 Smart Phone Vienna24, Model XT2409, Metal ring 4	0,110	0,110	100%	YES	
Aluminum	GG2033-00	24-120 Smart Phone Vienna24, Model XT2409, Metallic foil	1,390	1,390	100%	YES	
Aluminum	GG2048-00	24-120 Smart Phone Vienna24, Model XT2409, Thermal paste	0,325	0,325	100%	YES	
Battery	GG2002-00	24-120 Smart Phone Vienna24, Model XT2409, Battery	55,433	55,433	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Copper Alloy	GG2016-01	24-120 Smart Phone Vienna24, Model XT2409, Copper glue strip 1	0,169	0,169	100%	YES	
Copper Alloy	GG2016-02	24-120 Smart Phone Vienna24, Model XT2409, Copper glue strip 2	0,213	0,213	100%	YES	
Copper Alloy	GG2017-00	24-120 Smart Phone Vienna24, Model XT2409, Copper plate	4,304	4,304	100%	YES	
Ferrous Alloy	GG2030-00	24-120 Smart Phone Vienna24, Model XT2409, Metal plate 1	0,340	0,340	100%	YES	
Ferrous Alloy	GG2045-01	24-120 Smart Phone Vienna24, Model XT2409, Silver screws 1+2	0,701	0,701	100%	YES	
Ferrous Alloy	GG2045-02	24-120 Smart Phone Vienna24, Model XT2409, Silver screw 3	0,028	0,028	100%	YES	
Glass	GG2020-00	24-120 Smart Phone Vienna24, Model XT2409, Display front glass	15,761	15,761	100%	YES	
Glass	GG2023-01	Smart Phone Vienna24, Model XT2409, Glass lens 1	0,099	0,099	100%	YES	
Glass	GG2023-02	Smart Phone Vienna24, Model XT2409, Glass lens 2	0,100	0,100	100%	YES	
Glass	GG2023-03	Smart Phone Vienna24, Model XT2409, Glass lens 3+4	0,237	0,237	100%	YES	
Non recoverable	GG2001-00	24-120 Smart Phone Vienna24, Model XT2409, Backside cover	9,801	0	0%	NO	Non combustible
Non recyclable	GG2004-02	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 2	0,125	0,125	100%	YES	
Non recyclable	GG2004-03	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 3	0,001	0,001	100%	YES	
Non recyclable	GG2004-04	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 4	0,010	0,010	100%	YES	
Non recyclable	GG2004-05	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 5	0,007	0,007	100%	YES	
Non recyclable	GG2004-06	24-120 Smart Phone Vienna24, Model XT2409, Black glue pads 6+7	0,014	0,014	100%	YES	
Non recyclable	GG2004-07	24-120 Smart Phone Vienna24, Model XT2409, Black glue pads 8+9	0,022	0,022	100%	YES	
Non recyclable	GG2004-08	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 10	0,076	0,076	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	GG2004-09	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 11	0,112	0,112	100%	YES	
Non recyclable	GG2005-01	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 1	0,070	0,070	100%	YES	
Non recyclable	GG2005-02	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 2	0,574	0,574	100%	YES	
Non recyclable	GG2005-03	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 3	0,001	0,001	100%	YES	
Non recyclable	GG2005-05	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 5	0,065	0,065	100%	YES	
Non recyclable	GG2005-06	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 6	0,482	0,482	100%	YES	
Non recyclable	GG2005-08	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 8	0,035	0,035	100%	YES	
Non recyclable	GG2006-00	24-120 Smart Phone Vienna24, Model XT2409, Black plastic cover 1	3,370	3,370	100%	YES	
Non recyclable	GG2007-00	24-120 Smart Phone Vienna24, Model XT2409, Black plastic cover 2	0,945	0,945	100%	YES	
Non recyclable	GG2008-00	24-120 Smart Phone Vienna24, Model XT2409, Black plastic net	0,034	0,034	100%	YES	
Non recyclable	GG2013-01	24-120 Smart Phone Vienna24, Model XT2409, Clear glue 1	0,002	0,002	100%	YES	
Non recyclable	GG2013-03	24-120 Smart Phone Vienna24, Model XT2409, Clear glue 3	0,006	0,006	100%	YES	
Non recyclable	GG2014-01	24-120 Smart Phone Vienna24, Model XT2409, Clear glue strip 1	0,095	0,095	100%	YES	
Non recyclable	GG2014-02	24-120 Smart Phone Vienna24, Model XT2409, Clear glue strip 2	0,060	0,060	100%	YES	
Non recyclable	GG2019-01	24-120 Smart Phone Vienna24, Model XT2409, Display foils, Display front foil	1,540	1,540	100%	YES	
Non recyclable	GG2019-02	24-120 Smart Phone Vienna24, Model XT2409, Display foils, Display back foil	1,860	1,860	100%	YES	
Non recyclable	GG2025-00	24-120 Smart Phone Vienna24, Model XT2409, Housing frame	30,754	30,754	100%	YES	
Non recyclable	GG2026-01	24-120 Smart Phone Vienna24, Model XT2409, Label 1	0,007	0,007	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	GG2026-02	24-120 Smart Phone Vienna24, Model XT2409, Label 2	0,006	0,006	100%	YES	
Non recyclable	GG2026-03	24-120 Smart Phone Vienna24, Model XT2409, Label 3	0,006	0,006	100%	YES	
Non recyclable	GG2026-04	24-120 Smart Phone Vienna24, Model XT2409, Label 4	0,003	0,003	100%	YES	
Non recyclable	GG2026-05	24-120 Smart Phone Vienna24, Model XT2409, Label 5	0,008	0,008	100%	YES	
Non recyclable	GG2026-06	24-120 Smart Phone Vienna24, Model XT2409, Label 6	0,001	0,001	100%	YES	
Non recyclable	GG2032-01	Smart Phone Vienna24, Model XT2409, Metallic foam pad 1	0,002	0,002	100%	YES	
Non recyclable	GG2032-02	Smart Phone Vienna24, Model XT2409, Metallic foam pad 2	0,001	0,001	100%	YES	
Non recyclable	GG2032-03	Smart Phone Vienna24, Model XT2409, Metallic foam pad 3	0,001	0,001	100%	YES	
Non recyclable	GG2034-01	24-120 Smart Phone Vienna24, Model XT2409, Metallic glue strip 1	0,008	0,008	100%	YES	
Non recyclable	GG2034-02	24-120 Smart Phone Vienna24, Model XT2409, Metallic glue strip 2	0,008	0,008	100%	YES	
Non recyclable	GG2034-03	24-120 Smart Phone Vienna24, Model XT2409, Metallic glue strip 3	0,095	0,095	100%	YES	
Non recyclable	GG2035-01	24-120 Smart Phone Vienna24, Model XT2409, Metallic shock pads 1	0,010	0,010	100%	YES	
Non recyclable	GG2035-02	24-120 Smart Phone Vienna24, Model XT2409, Metallic shock pads 2	0,040	0,040	100%	YES	
Non recyclable	GG2035-03	24-120 Smart Phone Vienna24, Model XT2409, Metallic shock pads 3	0,029	0,029	100%	YES	
Non recyclable	GG2035-04	24-120 Smart Phone Vienna24, Model XT2409, Metallic shock pads 4	0,012	0,012	100%	YES	
Non recyclable	GG2044-01	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 1	0,908	0,908	100%	YES	
Non recyclable	GG2044-02	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 2	0,140	0,140	100%	YES	
Non recyclable	GG2044-03	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 3	0,034	0,034	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	GG2044-04	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 4	0,040	0,040	100%	YES	
Non recyclable	GG2044-05	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 5	0,011	0,011	100%	YES	
Non recyclable	GG2044-06	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 6	0,010	0,010	100%	YES	
Non recyclable	GG2044-07	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 7	0,007	0,007	100%	YES	
Non recyclable	GG2044-08	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 8	0,028	0,028	100%	YES	
Non recyclable	GG2044-09	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 9	0,001	0,001	100%	YES	
Non recyclable	GG2044-10	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 10	0,010	0,010	100%	YES	
Non recyclable	GG2044-11	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 11	0,007	0,007	100%	YES	
Non recyclable	GG2044-12	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 12	0,004	0,004	100%	YES	
Non recyclable	GG2044-13	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 13	0,005	0,005	100%	YES	
Non recyclable	GG2044-14	24-120 Smart Phone Vienna24, Model XT2409, Shock pad 14	0,045	0,045	100%	YES	
Non recyclable	GG2047-00	24-120 Smart Phone Vienna24, Model XT2409, SIM card holder	0,270	0,270	100%	YES	
Non recyclable	GG2052-01	24-120 Smart Phone Vienna24, Model XT2409, Yellow glue strip 1	0,015	0,015	100%	YES	
Non recyclable	GG2052-02	24-120 Smart Phone Vienna24, Model XT2409, Yellow glue strip 2	0,018	0,018	100%	YES	
PWB and mixed Electronics	GG2002-04	24-120 Smart Phone Vienna24, Model XT2409, Battery, Flex rigid	1,530	1,530	100%	YES	
PWB and mixed Electronics	GG2003-00	24-120 Smart Phone Vienna24, Model XT2409, Black cable	0,155	0,155	100%	YES	
PWB and mixed Electronics	GG2009-00	24-120 Smart Phone Vienna24, Model XT2409, Blue cable	0,203	0,203	100%	YES	
PWB and mixed Electronics	GG2010-00	24-120 Smart Phone Vienna24, Model XT2409, Bottom speaker	2,930	2,930	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
PWB and mixed Electronics	GG2012-00	24-120 Smart Phone Vienna24, Model XT2409, Charging PWB	1,033	1,033	100%	YES	
PWB and mixed Electronics	GG2015-00	24-120 Smart Phone Vienna24, Model XT2409, Connection flex	0,783	0,783	100%	YES	
PWB and mixed Electronics	GG2018-00	24-120 Smart Phone Vienna24, Model XT2409, Display flex	1,105	1,105	100%	YES	
PWB and mixed Electronics	GG2021-00	24-120 Smart Phone Vienna24, Model XT2409, Flex 1	0,510	0,510	100%	YES	
PWB and mixed Electronics	GG2022-00	24-120 Smart Phone Vienna24, Model XT2409, Front camera	0,255	0,255	100%	YES	
PWB and mixed Electronics	GG2027-00	24-120 Smart Phone Vienna24, Model XT2409, Flashlight PWB	0,294	0,294	100%	YES	
PWB and mixed Electronics	GG2029-00	24-120 Smart Phone Vienna24, Model XT2409, Main PWB	14,581	14,581	100%	YES	
PWB and mixed Electronics	GG2036-00	24-120 Smart Phone Vienna24, Model XT2409, Mute button flex	0,960	0,960	100%	YES	
PWB and mixed Electronics	GG2037-00	24-120 Smart Phone Vienna24, Model XT2409, NFC flex	2,718	2,718	100%	YES	
PWB and mixed Electronics	GG2038-00	24-120 Smart Phone Vienna24, Model XT2409, PWB 1	0,082	0,082	100%	YES	
PWB and mixed Electronics	GG2039-00	24-120 Smart Phone Vienna24, Model XT2409, Rear camera 1	2,372	2,372	100%	YES	
PWB and mixed Electronics	GG2040-00	24-120 Smart Phone Vienna24, Model XT2409, Rear camera 2	1,610	1,610	100%	YES	
PWB and mixed Electronics	GG2041-00	24-120 Smart Phone Vienna24, Model XT2409, Rear camera 3	0,655	0,655	100%	YES	
PWB and mixed Electronics	GG2043-00	24-120 Smart Phone Vienna24, Model XT2409, Sensor flex	0,140	0,140	100%	YES	
PWB and mixed Electronics	GG2046-00	24-120 Smart Phone Vienna24, Model XT2409, SIM card PWB	0,950	0,950	100%	YES	
PWB and mixed Electronics	GG2049-00	24-120 Smart Phone Vienna24, Model XT2409, Top speaker	0,966	0,966	100%	YES	
PWB and mixed Electronics	GG2050-00	24-120 Smart Phone Vienna24, Model XT2409, Vibra cell	1,160	1,160	100%	YES	
PWB and mixed Electronics	GG2051-00	24-120 Smart Phone Vienna24, Model XT2409, White cable	0,204	0,204	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Recyclable Plastic	GG2004-01	24-120 Smart Phone Vienna24, Model XT2409, Black glue pad 1	0,400	0,400	100%	YES	
Recyclable Plastic	GG2005-04	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 4	0,103	0,103	100%	YES	
Recyclable Plastic	GG2005-07	24-120 Smart Phone Vienna24, Model XT2409, Black glue strip 7	0,040	0,040	100%	YES	
Recyclable Plastic	GG2011-00	24-120 Smart Phone Vienna24, Model XT2409, Brand label	0,049	0,049	100%	YES	
Recyclable Plastic	GG2013-02	24-120 Smart Phone Vienna24, Model XT2409, Clear glue 2	0,001	0,001	100%	YES	
Recyclable Plastic	GG2024-00	24-120 Smart Phone Vienna24, Model XT2409, Gray plastic plate	0,060	0,060	100%	YES	
Recyclable Plastic	GG2028-00	24-120 Smart Phone Vienna24, Model XT2409, Light guide	0,123	0,123	100%	YES	
Recyclable Plastic	GG2042-00	24-120 Smart Phone Vienna24, Model XT2409, Rear camera cover	3,279	3,279	100%	YES	
			171,181	161,380			