

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

Date: June 17<sup>th</sup>, 2024  
From: Dr. Michael Riess, VDE  
To: Motorola/Lenovo

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

## XT2433 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 recoverability<sup>1)</sup>. Formulas for calculation:

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

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

<sup>1)</sup> 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-319129-TL7-1 the product achieves a recycling quote of 73.37 % and a recovery quote of 85.75 %.

Required Records:

1. Total weight of mobile phone (with Battery): 187.665 g = 0.414 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
Battery	GF2386-00	24-116 Smart Phone XT2433-2, Battery	62,098	62,098	100%	YES	
Copper Alloy	GF2399-01	24-116 Smart Phone XT2433-2, Copper glue strip 1	0,015	0,015	100%	YES	
Copper Alloy	GF2399-02	24-116 Smart Phone XT2433-2, Copper glue strip 2	0,057	0,057	100%	YES	
Ferrous Alloy	GF2392-01	24-116 Smart Phone XT2433-2, Display assembly, Display metal plate	8,701	8,701	100%	YES	
Ferrous Alloy	GF2406-01	24-116 Smart Phone XT2433-2, Black screws	0,751	0,751	100%	YES	
Ferrous Alloy	GF2406-02	24-116 Smart Phone XT2433-2, Silver screws	0,063	0,063	100%	YES	
Glass	GF2371-00	24-116 Smart Phone XT2433-2, Glass camera covers	0,374	0,374	100%	YES	
Glass	GF2390-00	24-116 Smart Phone XT2433-2, Front glass	29,186	29,186	100%	YES	
Non recyclable	GF2363-00	24-116 Smart Phone XT2433-2, SIM Card holder	0,441	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2364-00	24-116 Smart Phone XT2433-2, Backside cover	7,611	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2373-00	24-116 Smart Phone XT2433-2, Black plastic frame	8,877	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2391-00	24-116 Smart Phone XT2433-2, Metal housing	26,450	0	0%	NO	Material Mix more than 5% differing materials, Lead

Fraction Name	Sample No.	Description	Total Mass in [g]	Recycled or Reused Mass in [g]	Factor Recycling	Compatibility Recycling	Why not recyclable
Non recyclable	GF2392-05	24-116 Smart Phone XT2433-2, Display assembly, Diffuser foil 1	0,698	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2392-06	24-116 Smart Phone XT2433-2, Display assembly, Diffuser foil 2	1,422	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2392-07	24-116 Smart Phone XT2433-2, Display assembly, Reflection foil 2	0,448	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2393-01	24-116 Smart Phone XT2433-2, Black net 1	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2393-02	24-116 Smart Phone XT2433-2, Black net 2+3	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-01	24-116 Smart Phone XT2433-2, Black shock pad 1	0,971	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-02	24-116 Smart Phone XT2433-2, Black shock pad 2	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-04	24-116 Smart Phone XT2433-2, Black shock pad 4	0,009	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-05	24-116 Smart Phone XT2433-2, Black shock pad 5	0,021	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-06	24-116 Smart Phone XT2433-2, Black shock pad 6	0,008	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-07	24-116 Smart Phone XT2433-2, Black shock pad 7	0,006	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-08	24-116 Smart Phone XT2433-2, Black shock pad 8	0,008	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-09	24-116 Smart Phone XT2433-2, Black shock pad 9	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-10	24-116 Smart Phone XT2433-2, Black shock pad 10	0,018	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-11	24-116 Smart Phone XT2433-2, Black shock pad 11	0,005	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-12	24-116 Smart Phone XT2433-2, Black shock pad 12	0,016	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-13	24-116 Smart Phone XT2433-2, Black shock pad 13	0,004	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-14	24-116 Smart Phone XT2433-2, Black shock pad 14	0,003	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	GF2394-15	24-116 Smart Phone XT2433-2, Black shock pad 15	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-16	24-116 Smart Phone XT2433-2, Black shock pad 16	0,011	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-17	24-116 Smart Phone XT2433-2, Black shock pad 17	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-19	24-116 Smart Phone XT2433-2, Black shock pad 19	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2394-20	24-116 Smart Phone XT2433-2, Black shock pad 20	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-01	24-116 Smart Phone XT2433-2, Black glue strip 1	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-02	24-116 Smart Phone XT2433-2, Black glue strip 2	0,116	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-03	24-116 Smart Phone XT2433-2, Black glue strip 3	0,014	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-04	24-116 Smart Phone XT2433-2, Black glue strip 4	0,570	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-05	24-116 Smart Phone XT2433-2, Black glue strip 5	0,271	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-06	24-116 Smart Phone XT2433-2, Black glue strip 6	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-07	24-116 Smart Phone XT2433-2, Black glue strip 7	0,004	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-08	24-116 Smart Phone XT2433-2, Black glue strip 8	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-09	24-116 Smart Phone XT2433-2, Black glue strip 9	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-10	24-116 Smart Phone XT2433-2, Black glue strip 10	0,175	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-11	24-116 Smart Phone XT2433-2, Black glue strip 11	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-12	24-116 Smart Phone XT2433-2, Black glue strip 12	0,058	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2395-13	24-116 Smart Phone XT2433-2, Black glue strip 13	0,706	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	GF2396-02	24-116 Smart Phone XT2433-2, Black glue 2	0,238	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2396-03	24-116 Smart Phone XT2433-2, Black glue 3	0,095	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2397-01	24-116 Smart Phone XT2433-2, Label 1	0,007	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2397-02	24-116 Smart Phone XT2433-2, Label 2	0,005	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2397-03	24-116 Smart Phone XT2433-2, Label 3	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2397-04	24-116 Smart Phone XT2433-2, Label 4	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2397-05	24-116 Smart Phone XT2433-2, Label 5	0,002	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2398-01	24-116 Smart Phone XT2433-2, Clear glue strip 1	0,005	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2398-02	24-116 Smart Phone XT2433-2, Clear glue strips 2	0,155	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2398-04	24-116 Smart Phone XT2433-2, Black/White glue strip	0,005	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2398-05	24-116 Smart Phone XT2433-2, Green glue strip 1	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2398-06	24-116 Smart Phone XT2433-2, Green glue strip 2	0,012	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2400-01	24-116 Smart Phone XT2433-2, Metallic glue strip 1	0,005	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2400-02	24-116 Smart Phone XT2433-2, Metallic glue strip 2	0,008	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2400-03	24-116 Smart Phone XT2433-2, Metallic glue strip 3	0,018	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2400-04	24-116 Smart Phone XT2433-2, Metallic glue strip 4	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2401-01	24-116 Smart Phone XT2433-2, Metallic shock pad 1	0,119	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2401-02	24-116 Smart Phone XT2433-2, Metallic shock pad 2	0,024	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	GF2401-03	24-116 Smart Phone XT2433-2, Metallic shock pad 3	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2402-01	24-116 Smart Phone XT2433-2, Humidity indicator 1	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2402-02	24-116 Smart Phone XT2433-2, Humidity indicator 2	0,001	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2403-01	24-116 Smart Phone XT2433-2, Black rubber part 1	0,007	0	0%	NO	Non remeltable
Non recyclable	GF2403-02	24-116 Smart Phone XT2433-2, Black rubber part 2	0,093	0	0%	NO	Non remeltable
Non recyclable	GF2403-03	24-116 Smart Phone XT2433-2, Black rubber part 3	0,120	0	0%	NO	Non remeltable
Non recyclable	GF2403-04	24-116 Smart Phone XT2433-2, Red rubber parts	0,012	0	0%	NO	Material Mix more than 5% differing materials
Non recyclable	GF2404-00	24-116 Smart Phone XT2433-2, Blue thermal paste	0,070	0	0%	NO	Non remeltable
PWB and mixed Electronics	GF2366-00	24-116 Smart Phone XT2433-2, Power button flex	0,254	0,254	100%	YES	
PWB and mixed Electronics	GF2367-00	24-116 Smart Phone XT2433-2, NFC flex	0,206	0,206	100%	YES	
PWB and mixed Electronics	GF2368-01	24-116 Smart Phone XT2433-2, Antenna flex 1	0,095	0,095	100%	YES	
PWB and mixed Electronics	GF2368-02	24-116 Smart Phone XT2433-2, Antenna flex 2	0,024	0,024	100%	YES	
PWB and mixed Electronics	GF2368-03	24-116 Smart Phone XT2433-2, Antenna flex 3	0,016	0,016	100%	YES	
PWB and mixed Electronics	GF2368-04	24-116 Smart Phone XT2433-2, Antenna flex 4	0,085	0,085	100%	YES	
PWB and mixed Electronics	GF2368-05	24-116 Smart Phone XT2433-2, Antenna flex 5	0,041	0,041	100%	YES	
PWB and mixed Electronics	GF2368-06	24-116 Smart Phone XT2433-2, Antenna flex 6	0,016	0,016	100%	YES	
PWB and mixed Electronics	GF2369-00	24-116 Smart Phone XT2433-2, Flashlight PWB	0,186	0,186	100%	YES	
PWB and mixed Electronics	GF2374-00	24-116 Smart Phone XT2433-2, Front camera	0,265	0,265	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	GF2375-00	24-116 Smart Phone XT2433-2, Rear camera 1	0,295	0,295	100%	YES	
PWB and mixed Electronics	GF2376-00	24-116 Smart Phone XT2433-2, White connection cable	0,250	0,250	100%	YES	
PWB and mixed Electronics	GF2377-00	24-116 Smart Phone XT2433-2, Rear camera 2	0,891	0,891	100%	YES	
PWB and mixed Electronics	GF2378-00	24-116 Smart Phone XT2433-2, Main PWB	17,119	17,119	100%	YES	
PWB and mixed Electronics	GF2379-00	24-116 Smart Phone XT2433-2, Top Speaker	0,951	0,951	100%	YES	
PWB and mixed Electronics	GF2380-00	24-116 Smart Phone XT2433-2, Bottom Speaker	2,527	2,527	100%	YES	
PWB and mixed Electronics	GF2381-00	24-116 Smart Phone XT2433-2, SUB PWB	1,382	1,382	100%	YES	
PWB and mixed Electronics	GF2382-00	24-116 Smart Phone XT2433-2, Black connection cable	0,174	0,174	100%	YES	
PWB and mixed Electronics	GF2383-00	24-116 Smart Phone XT2433-2, Connection flex 2	0,014	0,014	100%	YES	
PWB and mixed Electronics	GF2384-00	24-116 Smart Phone XT2433-2, Vibra call	0,886	0,886	100%	YES	
PWB and mixed Electronics	GF2385-00	24-116 Smart Phone XT2433-2, Volume button flex	0,157	0,157	100%	YES	
PWB and mixed Electronics	GF2386-01	24-116 Smart Phone XT2433-2, Battery, Flex	0,567	0,567	100%	YES	
PWB and mixed Electronics	GF2387-00	24-116 Smart Phone XT2433-2, Connection flex 1	0,491	0,491	100%	YES	
PWB and mixed Electronics	GF2388-00	24-116 Smart Phone XT2433-2, Display LED flex	0,069	0,069	100%	YES	
PWB and mixed Electronics	GF2389-00	24-116 Smart Phone XT2433-2, Display connection flex	0,690	0,690	100%	YES	
Recyclable Plastic	GF2365-00	24-116 Smart Phone XT2433-2, Light guide	0,031	0,031	100%	YES	
Recyclable Plastic	GF2370-00	24-116 Smart Phone XT2433-2, Volume button	0,083	0,083	100%	YES	
Recyclable Plastic	GF2372-00	24-116 Smart Phone XT2433-2, Camera covers plastic frame	1,536	1,536	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	GF2392-02	24-116 Smart Phone XT2433-2, Display assembly, Reflection foil 1	1,246	1,246	100%	YES	
Recyclable Plastic	GF2392-03	24-116 Smart Phone XT2433-2, Display assembly, Polarization foil	0,997	0,997	100%	YES	
Recyclable Plastic	GF2392-04	24-116 Smart Phone XT2433-2, Display assembly, Diffuser plate	4,445	4,445	100%	YES	
Recyclable Plastic	GF2394-03	24-116 Smart Phone XT2433-2, Black shock pad 3	0,001	0,001	100%	YES	
Recyclable Plastic	GF2394-18	24-116 Smart Phone XT2433-2, Black shock pad 18	0,007	0,007	100%	YES	
Recyclable Plastic	GF2396-01	24-116 Smart Phone XT2433-2, Black glue 1	0,070	0,070	100%	YES	
Recyclable Plastic	GF2396-04	24-116 Smart Phone XT2433-2, Black glue 4	0,054	0,054	100%	YES	
Recyclable Plastic	GF2396-05	24-116 Smart Phone XT2433-2, Black glue 5	0,025	0,025	100%	YES	
Recyclable Plastic	GF2398-03	24-116 Smart Phone XT2433-2, White glue strip 1	0,001	0,001	100%	YES	
Recyclable Plastic	GF2405-01	24-116 Smart Phone XT2433-2, Gray plastic part	0,170	0,170	100%	YES	
Recyclable Plastic	GF2405-02	24-116 Smart Phone XT2433-2, Black plastic part	0,128	0,128	100%	YES	
			187,665	137,690			



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
Battery	GF2386-00	24-116 Smart Phone XT2433-2, Battery	62,098	62,098	100%	YES	
Copper Alloy	GF2399-01	24-116 Smart Phone XT2433-2, Copper glue strip 1	0,015	0,015	100%	YES	
Copper Alloy	GF2399-02	24-116 Smart Phone XT2433-2, Copper glue strip 2	0,057	0,057	100%	YES	
Ferrous Alloy	GF2392-01	24-116 Smart Phone XT2433-2, Display assembly, Display metal plate	8,701	8,701	100%	YES	
Ferrous Alloy	GF2406-01	24-116 Smart Phone XT2433-2, Black screws	0,751	0,751	100%	YES	
Ferrous Alloy	GF2406-02	24-116 Smart Phone XT2433-2, Silver screws	0,063	0,063	100%	YES	
Glass	GF2371-00	24-116 Smart Phone XT2433-2, Glass camera covers	0,374	0,374	100%	YES	
Glass	GF2390-00	24-116 Smart Phone XT2433-2, Front glass	29,186	29,186	100%	YES	
Non recyclable	GF2363-00	24-116 Smart Phone XT2433-2, SIM Card holder	0,441	0,441	100%	YES	
Non recyclable	GF2364-00	24-116 Smart Phone XT2433-2, Backside cover	7,611	7,611	100%	YES	
Non recyclable	GF2373-00	24-116 Smart Phone XT2433-2, Black plastic frame	8,877	8,877	100%	YES	
Non recoverable	GF2391-00	24-116 Smart Phone XT2433-2, Metal housing	26,450	0	0%	NO	Lead
Non recyclable	GF2392-05	24-116 Smart Phone XT2433-2, Display assembly, Diffuser foil 1	0,698	0,698	100%	YES	
Non recyclable	GF2392-06	24-116 Smart Phone XT2433-2, Display assembly, Diffuser foil 2	1,422	1,422	100%	YES	
Non recyclable	GF2392-07	24-116 Smart Phone XT2433-2, Display assembly, Reflection foil 2	0,448	0,448	100%	YES	
Non recyclable	GF2393-01	24-116 Smart Phone XT2433-2, Black net 1	0,001	0,001	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	GF2393-02	24-116 Smart Phone XT2433-2, Black net 2+3	0,002	0,002	100%	YES	
Non recyclable	GF2394-01	24-116 Smart Phone XT2433-2, Black shock pad 1	0,971	0,971	100%	YES	
Non recyclable	GF2394-02	24-116 Smart Phone XT2433-2, Black shock pad 2	0,007	0,007	100%	YES	
Non recyclable	GF2394-04	24-116 Smart Phone XT2433-2, Black shock pad 4	0,009	0,009	100%	YES	
Non recyclable	GF2394-05	24-116 Smart Phone XT2433-2, Black shock pad 5	0,021	0,021	100%	YES	
Non recyclable	GF2394-06	24-116 Smart Phone XT2433-2, Black shock pad 6	0,008	0,008	100%	YES	
Non recyclable	GF2394-07	24-116 Smart Phone XT2433-2, Black shock pad 7	0,006	0,006	100%	YES	
Non recyclable	GF2394-08	24-116 Smart Phone XT2433-2, Black shock pad 8	0,008	0,008	100%	YES	
Non recyclable	GF2394-09	24-116 Smart Phone XT2433-2, Black shock pad 9	0,007	0,007	100%	YES	
Non recyclable	GF2394-10	24-116 Smart Phone XT2433-2, Black shock pad 10	0,018	0,018	100%	YES	
Non recyclable	GF2394-11	24-116 Smart Phone XT2433-2, Black shock pad 11	0,005	0,005	100%	YES	
Non recyclable	GF2394-12	24-116 Smart Phone XT2433-2, Black shock pad 12	0,016	0,016	100%	YES	
Non recyclable	GF2394-13	24-116 Smart Phone XT2433-2, Black shock pad 13	0,004	0,004	100%	YES	
Non recyclable	GF2394-14	24-116 Smart Phone XT2433-2, Black shock pad 14	0,003	0,003	100%	YES	
Non recyclable	GF2394-15	24-116 Smart Phone XT2433-2, Black shock pad 15	0,001	0,001	100%	YES	
Non recyclable	GF2394-16	24-116 Smart Phone XT2433-2, Black shock pad 16	0,011	0,011	100%	YES	
Non recyclable	GF2394-17	24-116 Smart Phone XT2433-2, Black shock pad 17	0,001	0,001	100%	YES	
Non recyclable	GF2394-19	24-116 Smart Phone XT2433-2, Black shock pad 19	0,002	0,002	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	GF2394-20	24-116 Smart Phone XT2433-2, Black shock pad 20	0,001	0,001	100%	YES	
Non recyclable	GF2395-01	24-116 Smart Phone XT2433-2, Black glue strip 1	0,001	0,001	100%	YES	
Non recyclable	GF2395-02	24-116 Smart Phone XT2433-2, Black glue strip 2	0,116	0,116	100%	YES	
Non recyclable	GF2395-03	24-116 Smart Phone XT2433-2, Black glue strip 3	0,014	0,014	100%	YES	
Non recyclable	GF2395-04	24-116 Smart Phone XT2433-2, Black glue strip 4	0,570	0,570	100%	YES	
Non recyclable	GF2395-05	24-116 Smart Phone XT2433-2, Black glue strip 5	0,271	0,271	100%	YES	
Non recyclable	GF2395-06	24-116 Smart Phone XT2433-2, Black glue strip 6	0,001	0,001	100%	YES	
Non recyclable	GF2395-07	24-116 Smart Phone XT2433-2, Black glue strip 7	0,004	0,004	100%	YES	
Non recyclable	GF2395-08	24-116 Smart Phone XT2433-2, Black glue strip 8	0,001	0,001	100%	YES	
Non recyclable	GF2395-09	24-116 Smart Phone XT2433-2, Black glue strip 9	0,001	0,001	100%	YES	
Non recyclable	GF2395-10	24-116 Smart Phone XT2433-2, Black glue strip 10	0,175	0,175	100%	YES	
Non recyclable	GF2395-11	24-116 Smart Phone XT2433-2, Black glue strip 11	0,001	0,001	100%	YES	
Non recyclable	GF2395-12	24-116 Smart Phone XT2433-2, Black glue strip 12	0,058	0,058	100%	YES	
Non recyclable	GF2395-13	24-116 Smart Phone XT2433-2, Black glue strip 13	0,706	0,706	100%	YES	
Non recyclable	GF2396-02	24-116 Smart Phone XT2433-2, Black glue 2	0,238	0,238	100%	YES	
Non recyclable	GF2396-03	24-116 Smart Phone XT2433-2, Black glue 3	0,095	0,095	100%	YES	
Non recyclable	GF2397-01	24-116 Smart Phone XT2433-2, Label 1	0,007	0,007	100%	YES	
Non recyclable	GF2397-02	24-116 Smart Phone XT2433-2, Label 2	0,005	0,005	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recyclable	GF2397-03	24-116 Smart Phone XT2433-2, Label 3	0,001	0,001	100%	YES	
Non recyclable	GF2397-04	24-116 Smart Phone XT2433-2, Label 4	0,001	0,001	100%	YES	
Non recyclable	GF2397-05	24-116 Smart Phone XT2433-2, Label 5	0,002	0,002	100%	YES	
Non recyclable	GF2398-01	24-116 Smart Phone XT2433-2, Clear glue strip 1	0,005	0,005	100%	YES	
Non recyclable	GF2398-02	24-116 Smart Phone XT2433-2, Clear glue strips 2	0,155	0,155	100%	YES	
Non recyclable	GF2398-04	24-116 Smart Phone XT2433-2, Black/White glue strip	0,005	0,005	100%	YES	
Non recyclable	GF2398-05	24-116 Smart Phone XT2433-2, Green glue strip 1	0,001	0,001	100%	YES	
Non recyclable	GF2398-06	24-116 Smart Phone XT2433-2, Green glue strip 2	0,012	0,012	100%	YES	
Non recyclable	GF2400-01	24-116 Smart Phone XT2433-2, Metallic glue strip 1	0,005	0,005	100%	YES	
Non recyclable	GF2400-02	24-116 Smart Phone XT2433-2, Metallic glue strip 2	0,008	0,008	100%	YES	
Non recyclable	GF2400-03	24-116 Smart Phone XT2433-2, Metallic glue strip 3	0,018	0,018	100%	YES	
Non recyclable	GF2400-04	24-116 Smart Phone XT2433-2, Metallic glue strip 4	0,001	0,001	100%	YES	
Non recyclable	GF2401-01	24-116 Smart Phone XT2433-2, Metallic shock pad 1	0,119	0,119	100%	YES	
Non recyclable	GF2401-02	24-116 Smart Phone XT2433-2, Metallic shock pad 2	0,024	0,024	100%	YES	
Non recyclable	GF2401-03	24-116 Smart Phone XT2433-2, Metallic shock pad 3	0,001	0,001	100%	YES	
Non recyclable	GF2402-01	24-116 Smart Phone XT2433-2, Humidity indicator 1	0,001	0,001	100%	YES	
Non recyclable	GF2402-02	24-116 Smart Phone XT2433-2, Humidity indicator 2	0,001	0,001	100%	YES	
Non recoverable	GF2403-01	24-116 Smart Phone XT2433-2, Black rubber part 1	0,007	0	0%	NO	Non combustible

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Non recoverable	GF2403-02	24-116 Smart Phone XT2433-2, Black rubber part 2	0,093	0	0%	NO	Non combustible
Non recoverable	GF2403-03	24-116 Smart Phone XT2433-2, Black rubber part 3	0,120	0	0%	NO	Non combustible
Non recyclable	GF2403-04	24-116 Smart Phone XT2433-2, Red rubber parts	0,012	0,012	100%	YES	
Non recoverable	GF2404-00	24-116 Smart Phone XT2433-2, Blue thermal paste	0,070	0	0%	NO	Non combustible
PWB and mixed Electronics	GF2366-00	24-116 Smart Phone XT2433-2, Power button flex	0,254	0,254	100%	YES	
PWB and mixed Electronics	GF2367-00	24-116 Smart Phone XT2433-2, NFC flex	0,206	0,206	100%	YES	
PWB and mixed Electronics	GF2368-01	24-116 Smart Phone XT2433-2, Antenna flex 1	0,095	0,095	100%	YES	
PWB and mixed Electronics	GF2368-02	24-116 Smart Phone XT2433-2, Antenna flex 2	0,024	0,024	100%	YES	
PWB and mixed Electronics	GF2368-03	24-116 Smart Phone XT2433-2, Antenna flex 3	0,016	0,016	100%	YES	
PWB and mixed Electronics	GF2368-04	24-116 Smart Phone XT2433-2, Antenna flex 4	0,085	0,085	100%	YES	
PWB and mixed Electronics	GF2368-05	24-116 Smart Phone XT2433-2, Antenna flex 5	0,041	0,041	100%	YES	
PWB and mixed Electronics	GF2368-06	24-116 Smart Phone XT2433-2, Antenna flex 6	0,016	0,016	100%	YES	
PWB and mixed Electronics	GF2369-00	24-116 Smart Phone XT2433-2, Flashlight PWB	0,186	0,186	100%	YES	
PWB and mixed Electronics	GF2374-00	24-116 Smart Phone XT2433-2, Front camera	0,265	0,265	100%	YES	
PWB and mixed Electronics	GF2375-00	24-116 Smart Phone XT2433-2, Rear camera 1	0,295	0,295	100%	YES	
PWB and mixed Electronics	GF2376-00	24-116 Smart Phone XT2433-2, White connection cable	0,250	0,250	100%	YES	
PWB and mixed Electronics	GF2377-00	24-116 Smart Phone XT2433-2, Rear camera 2	0,891	0,891	100%	YES	
PWB and mixed Electronics	GF2378-00	24-116 Smart Phone XT2433-2, Main PWB	17,119	17,119	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	GF2379-00	24-116 Smart Phone XT2433-2, Top Speaker	0,951	0,951	100%	YES	
PWB and mixed Electronics	GF2380-00	24-116 Smart Phone XT2433-2, Bottom Speaker	2,527	2,527	100%	YES	
PWB and mixed Electronics	GF2381-00	24-116 Smart Phone XT2433-2, SUB PWB	1,382	1,382	100%	YES	
PWB and mixed Electronics	GF2382-00	24-116 Smart Phone XT2433-2, Black connection cable	0,174	0,174	100%	YES	
PWB and mixed Electronics	GF2383-00	24-116 Smart Phone XT2433-2, Connection flex 2	0,014	0,014	100%	YES	
PWB and mixed Electronics	GF2384-00	24-116 Smart Phone XT2433-2, Vibra call	0,886	0,886	100%	YES	
PWB and mixed Electronics	GF2385-00	24-116 Smart Phone XT2433-2, Volume button flex	0,157	0,157	100%	YES	
PWB and mixed Electronics	GF2386-01	24-116 Smart Phone XT2433-2, Battery, Flex	0,567	0,567	100%	YES	
PWB and mixed Electronics	GF2387-00	24-116 Smart Phone XT2433-2, Connection flex 1	0,491	0,491	100%	YES	
PWB and mixed Electronics	GF2388-00	24-116 Smart Phone XT2433-2, Display LED flex	0,069	0,069	100%	YES	
PWB and mixed Electronics	GF2389-00	24-116 Smart Phone XT2433-2, Display connection flex	0,690	0,690	100%	YES	
Recyclable Plastic	GF2365-00	24-116 Smart Phone XT2433-2, Light guide	0,031	0,031	100%	YES	
Recyclable Plastic	GF2370-00	24-116 Smart Phone XT2433-2, Volume button	0,083	0,083	100%	YES	
Recyclable Plastic	GF2372-00	24-116 Smart Phone XT2433-2, Camera covers plastic frame	1,536	1,536	100%	YES	
Recyclable Plastic	GF2392-02	24-116 Smart Phone XT2433-2, Display assembly, Reflection foil 1	1,246	1,246	100%	YES	
Recyclable Plastic	GF2392-03	24-116 Smart Phone XT2433-2, Display assembly, Polarization foil	0,997	0,997	100%	YES	
Recyclable Plastic	GF2392-04	24-116 Smart Phone XT2433-2, Display assembly, Diffuser plate	4,445	4,445	100%	YES	
Recyclable Plastic	GF2394-03	24-116 Smart Phone XT2433-2, Black shock pad 3	0,001	0,001	100%	YES	

Fraction Name	Sample No.	Description	Total Mass in [g]	Recovered Mass in [g]	Factor Recovery	Compatibility Recovery	Why not recoverable
Recyclable Plastic	GF2394-18	24-116 Smart Phone XT2433-2, Black shock pad 18	0,007	0,007	100%	YES	
Recyclable Plastic	GF2396-01	24-116 Smart Phone XT2433-2, Black glue 1	0,070	0,070	100%	YES	
Recyclable Plastic	GF2396-04	24-116 Smart Phone XT2433-2, Black glue 4	0,054	0,054	100%	YES	
Recyclable Plastic	GF2396-05	24-116 Smart Phone XT2433-2, Black glue 5	0,025	0,025	100%	YES	
Recyclable Plastic	GF2398-03	24-116 Smart Phone XT2433-2, White glue strip 1	0,001	0,001	100%	YES	
Recyclable Plastic	GF2405-01	24-116 Smart Phone XT2433-2, Gray plastic part	0,170	0,170	100%	YES	
Recyclable Plastic	GF2405-02	24-116 Smart Phone XT2433-2, Black plastic part	0,128	0,128	100%	YES	
			187,665	160,925			