

Test Report (SVHC)

No. SZXEC2200371002

Date: 25 Mar 2022

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Client Name : SHENZHEN RAKWIRELESS TECHNOLOGY CO., LTD

Client Address : ROOM 506, BUILDING B, NEW COMPARK, PINGSHAN FIRST ROAD, TAOYUAN STREET,
NANSHAN DISTRICT, SHENZHEN, GUANGDONG, CHINA

Sample Name : WisGate

Model No. : RAK7268C

Client Ref. Info. : RAK7268CV2/RAK7268/RAK7268V2

The above sample(s) and information were provided by the client.

SGS Job No. : RP22-002585 - SZ

Date of Sample Received : 22 Feb 2022

Testing Period : 22 Feb 2022 - 25 Mar 2022

Test Requested : As requested by client, SVHC screening is performed according to:
(i) Two hundred and twenty-three (223) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 17, 2022 regarding Regulation (EC) No 1907/2006 concerning the REACH.
(ii) One (1) potential Substances of Very High Concern (SVHC) in the notification of WTO on Jun 1, 2021.

Test Results : Please refer to next page(s).

Summary :

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are > 0.1% (w/w) in the articles of the submitted sample. See Test Result ID 001-P21, 001-P5, 004-P27, 004-P28, 004-P46, 004-P48, 004-P51.	See remark 2 for obligation under REACH
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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford

Ford Shi

Approved Signatory

scan to see the report



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The test results of SVHC over limit in the articles of the submitted sample summary

Test Result ID	Description	Substance Name	CAS No.	Concentration (%)
001-P5	Golden metal part	Lead	7439-92-1	2.528
001-P21	Silvery metal part	Lead	7439-92-1	2.282
004-P27	Black diode body	Lead	7439-92-1	0.822
004-P28	Black "IC" body	Lead	7439-92-1	1.423
004-P46	Black diode body	Lead	7439-92-1	2.161
004-P48	Black "IC" body	Lead	7439-92-1	1.256
004-P51	Black diode body	Lead	7439-92-1	0.796

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
2.1 Concerning article(s):
Communication:
Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Shenzhen Branch Testing Services Laboratory

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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Component list :

Specimen No.	Test Result ID	Description	SGS Sample ID
SN1	001	Metal group (confirmation test)	SZX22-003710.001
SN2	002	Non-metal group	SZX22-003710.002
SN3	003	Non-metal group (confirmation test)	SZX22-003710.003
SN4	004	Non-metal group (confirmation test)	SZX22-003710.004
SN5	004-P12	Black "IC" body	SZX22-003710.005
SN6	004-P13	Black "IC" body	SZX22-003710.006
SN7	004-P16	Black "IC" body	SZX22-003710.007
SN8	004-P17	Black "IC" body	SZX22-003710.008
SN9	004-P18	Black "IC" body	SZX22-003710.009
SN10	004-P24	Black electron component with multi-color printing	SZX22-003710.010
SN11	004-P27	Black diode body	SZX22-003710.011



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SN12	004-P28	Black "IC" body	SZX22-003710.012
SN13	004-P29	Black "IC" body	SZX22-003710.013
SN14	004-P31	Black "IC" body	SZX22-003710.014
SN15	004-P32	Black "IC" body	SZX22-003710.015
SN16	004-P33	Black "IC" body	SZX22-003710.016
SN17	004-P46	Black diode body	SZX22-003710.017
SN18	004-P47	Black "IC" body	SZX22-003710.018
SN19	004-P48	Black "IC" body	SZX22-003710.019
SN20	004-P49	Black "IC" body	SZX22-003710.020
SN21	004-P51	Black diode body	SZX22-003710.021
SN22	004-P54	Black "IC" body	SZX22-003710.022
SN23	001-P1	Silvery metal screw	SZX22-003710.056
SN24	001-P5	Golden metal part	SZX22-003710.057
SN25	001-P10	Silvery metal cover	SZX22-003710.058
SN26	001-P11	Silvery metal part	SZX22-003710.059
SN27	001-P15	Silvery metal cover	SZX22-003710.060
SN28	001-P21	Silvery metal part	SZX22-003710.061
SN29	001-P22	Silvery metal shell	SZX22-003710.062
SN30	001-P23	Silvery metal shell	SZX22-003710.063
SN31	001-P30	Silvery metal shell	SZX22-003710.064
SN32	001-P37	Silvery metal pin	SZX22-003710.065
SN33	001-P52	Silvery metal plate with black surface	SZX22-003710.066
SN34	001-P53	Silvery metal cover	SZX22-003710.067
SN35	003-P4	Black wire(Submit by 2022-3-21)	SZX22-003710.068
SN36	003-P6	Gray wire	SZX22-003710.069
SN37	003-P7	Black "PCB" with adhesive glue	SZX22-003710.070
SN38	003-P9	Black "PCB"	SZX22-003710.071
SN39	003-P14	Black "PCB"	SZX22-003710.072
SN40	003-P19	Blue "PCB"	SZX22-003710.073
SN41	003-P20	Black "PCB"	SZX22-003710.074
SN42	003-P34	Black "PCB"	SZX22-003710.075
SN43	003-P39	Green magnet core	SZX22-003710.076
SN44	003-P40	Silvery electrolytic capacitor body with black printing	SZX22-003710.077
SN45	003-P41	Green "PCB"	SZX22-003710.078
SN46	003-P42	Black inductance body	SZX22-003710.079



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SN47	003-P43	Yellow transparent plastic adhesive tape	SZX22-003710.080
SN48	003-P44	Gray magnet core	SZX22-003710.081
SN49	003-P50	Green "PCB"	SZX22-003710.082
SN50	003-P55	Black "PCB"	SZX22-003710.083



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SGS Sample ID	Photo No.	Material Description
001	P1	Silvery metal screw
001	P5	Golden metal part
001	P10	Silvery metal cover
001	P11	Silvery metal part
001	P15	Silvery metal cover
001	P21	Silvery metal part
001	P22	Silvery metal shell
001	P23	Silvery metal shell
001	P30	Silvery metal shell
001	P37	Silvery metal pin
001	P52	Silvery metal plate with black surface
001	P53	Silvery metal cover
002	P2	White plastic shell
002	P3	Transparent plastic part
002	P8	White plastic shell
002	P25	Gray plastic part
002	P26	Gray plastic part
002	P35	Gray plastic part
002	P36	Black plastic shell
002	P38	Copper enameled wire
002	P45	Copper enameled wire
003	P4	Black wire
003	P6	Gray wire
003	P7	Black "PCB" with adhesive glue



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SGS Sample ID	Photo No.	Material Description
003	P9	Black "PCB"
003	P14	Black "PCB"
003	P19	Blue "PCB"
003	P20	Black "PCB"
003	P34	Black "PCB"
003	P39	Green magnet core
003	P40	Silvery electrolytic capacitor body with black printing
003	P41	Green "PCB"
003	P42	Black inductance body
003	P43	Yellow transparent plastic adhesive tape
003	P44	Gray magnet core
003	P50	Green "PCB"
003	P55	Black "PCB"
004	P12	Black "IC" body
004	P13	Black "IC" body
004	P16	Black "IC" body
004	P17	Black "IC" body
004	P18	Black "IC" body
004	P24	Black electron component with multi-color printing
004	P27	Black diode body
004	P28	Black "IC" body
004	P29	Black "IC" body
004	P31	Black "IC" body
004	P32	Black "IC" body



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SGS Sample ID	Photo No.	Material Description
004	P33	Black "IC" body
004	P46	Black diode body
004	P47	Black "IC" body
004	P48	Black "IC" body
004	P49	Black "IC" body
004	P51	Black diode body
004	P54	Black "IC" body

Test Method :

SGS In-House method- SGS-CCL-SOP-019-21, SGS-CCL-SOP-019-22, SGS-CCL-SOP-057-01, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.077	0.010
XIX	Lead	7439-92-1	see below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P1 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P5 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.528	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P10 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P11 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P15 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P21 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.282	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P22 Concentration (%)	RL (%)
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Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P22 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P23 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P30 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.008	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P37 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P52 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	001-P53 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested Potential SVHC	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	see below confirmation test result	0.100
-	Other tested SVHC in candidate list	-	ND	-

Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested Potential SVHC	-	ND	-

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P4 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P6 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P7 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P9 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.075	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P14 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P19 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050



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Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P20 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.053	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P34 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P39 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P40 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P41 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.060	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P42 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P43 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P44 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P44 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050



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Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P50 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	003-P55 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	see below confirmation test result	0.010

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P12 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P13 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.010	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P16 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P17 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P18 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P24 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P27 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.822	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P28 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	1.423	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P29 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P31 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P32 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P33 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P46 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	2.161	0.005

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P47 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P48 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	1.256	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P49 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P51 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.796	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	004-P54 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	ND	0.005



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Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
2. RL = Reporting Limit (Test data will be shown if it $\geq$ RL. RL is not regulatory limit.). ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
4. RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001% boron RL=0.005% (only for Lead bis(tetrafluoroborate), Orthoboric acid, sodium salt), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide)
5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
6. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) $\geq 0.1\%$ (w/w).
7. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
8. In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.
9. / = Potential SVHC

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.100
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.100
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.100
I	4	Anthracene	120-12-7	0.100
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.100
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.100
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.100
I	8	Cobalt dichloride*	7646-79-9	0.010
I	9	Diarsenic pentaoxide*	1303-28-2	0.010
I	10	Diarsenic trioxide*	1327-53-3	0.010
I	11	Dibutyl phthalate (DBP)	84-74-2	0.100
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) $^{\Delta}$	-	0.100
I	13	Lead hydrogen arsenate*	7784-40-9	0.010
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.010
I	15	Triethyl arsenate*	15606-95-8	0.010
II	16	2,4-Dinitrotoluene	121-14-2	0.100
II	17	Acrylamide	79-06-1	0.100
II	18	Anthracene oil**	90640-80-5	0.100
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.100
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.100
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.100
II	23	Diisobutyl phthalate	84-69-5	0.100
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.010
II	25	Lead chromate*	7758-97-6	0.010
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.010
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.100
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.100
III	29	Ammonium dichromate*	7789-09-5	0.010
III	30	Boric acid*	-	0.010
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	Potassium chromate*	7789-00-6	0.010
III	33	Potassium dichromate*	7778-50-9	0.010
III	34	Sodium chromate*	7775-11-3	0.010
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
III	36	Trichloroethylene	79-01-6	0.100
IV	37	2-Ethoxyethanol	110-80-5	0.100
IV	38	2-Methoxyethanol	109-86-4	0.100
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.010
IV	41	Cobalt(II) carbonate*	513-79-1	0.010
IV	42	Cobalt(II) diacetate*	71-48-7	0.010
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.010
IV	44	Cobalt(II) sulphate*	10124-43-3	0.010
V	45	1,2,3-trichloropropane	96-18-4	0.100
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.100
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.100
V	48	1-methyl-2-pyrrolidone	872-50-4	0.100
V	49	2-ethoxyethyl acetate	111-15-9	0.100
V	50	Hydrazine	7803-57-8, 302-01-2	0.100
V	51	Strontium chromate*	7789-06-2	0.010
VI	52	1,2-Dichloroethane	107-06-2	0.100
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.100
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.100
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.100
VI	56	Aluminosilicate Refractory Ceramic Fibres *	-	0.010
VI	57	Arsenic acid*	7778-39-4	0.010
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.100
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.100



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.010
VI	61	Dichromium tris(chromate) *	24613-89-6	0.010
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.100
VI	63	Lead diazide, Lead azide*	13424-46-9	0.010
VI	64	Lead dipicrate*	6477-64-1	0.010
VI	65	Lead styphnate*	15245-44-0	0.010
VI	66	N,N-dimethylacetamide	127-19-5	0.100
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
VI	68	Phenolphthalein	77-09-8	0.100
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
VI	70	Trilead diarsenate*	3687-31-8	0.010
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.010
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.100
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.100
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.100
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.100
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.100
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.100
VII	78	Diboron trioxide*	1303-86-2	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.100
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.010
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.100
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.100
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.100
VII	84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.100
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.010
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.100
VIII	87	1,2-Diethoxyethane	629-14-1	0.100
VIII	88	1-Bromopropane	106-94-5	0.100
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.100
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.100
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.100
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.100
VIII	93	4-Aminoazobenzene	60-09-3	0.100
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.100
VIII	95	4-Nonylphenol, branched and linear	-	0.100
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.100
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.100
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.100
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.100
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.100
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.100
VIII	103	Diethyl sulphate	64-67-5	0.100
VIII	104	Diisopentylphthalate	605-50-5	0.100
VIII	105	Dimethyl sulphate	77-78-1	0.100
VIII	106	Dinoseb	88-85-7	0.100
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.010
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010
VIII	109	Furan	110-00-9	0.100
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.100
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.100
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.100
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.010
VIII	114	Lead cyanamidate*	20837-86-9	0.010
VIII	115	Lead dinitrate*	10099-74-8	0.010
VIII	116	Lead monoxide*	1317-36-8	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.010
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.010
VIII	119	Lead titanium trioxide*	12060-00-3	0.010
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.010
VIII	121	Methoxyacetic acid	625-45-6	0.100
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.100
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.100
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.100
VIII	126	o-Aminoazotoluene	97-56-3	0.100
VIII	127	o-Toluidine	95-53-4	0.100
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.100
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.010
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010
VIII	132	Silicic acid, lead salt*	11120-22-2	0.010
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010
VIII	134	Tetraethyllead*	78-00-2	0.010
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.010
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.100
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.010
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.100
IX	141	Cadmium oxide*	1306-19-0	0.010
IX	142	Cadmium	7440-43-9	0.010
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.100
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.100
X	145	Cadmium sulphide*	1306-23-6	0.010
X	146	Dihexyl phthalate	84-75-3	0.100
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.100
X	148	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)	1937-37-7	0.100
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.100
X	150	Lead di(acetate)*	301-04-2	0.010
X	151	Trixylyl phosphate	25155-23-1	0.100
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.100
XI	153	Cadmium chloride*	10108-64-2	0.010
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.010
XI	155	Sodium peroxometaborate*	7632-04-4	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.100
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.100
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.100
XII	159	Cadmium fluoride*	7790-79-6	0.010
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.010
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 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 & MOTE)	-	0.100
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.100
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.100
XIV	164	1,3-propanesultone	1120-71-4	0.100
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.100
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.100
XIV	167	Nitrobenzene	98-95-3	0.100
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.100
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.100
XVI	171	4-Heptylphenol, branched and linear	-	0.100
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.100
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.100
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.100
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.100
XVIII	176	Benz[a]anthracene	56-55-3	0.100
XVIII	177	Cadmium nitrate*	10325-94-7	0.010
XVIII	178	Cadmium carbonate*	513-78-0	0.010
XVIII	179	Cadmium hydroxide*	21041-95-2	0.010
XVIII	180	Chrysene	218-01-9	0.100
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.100
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.100
XIX	183	Benzo[ghi]perylene	191-24-2	0.100
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.100
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.100
XIX	186	Disodium octaborate*	12008-41-2	0.010
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine (EDA)	107-15-3	0.100
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.100
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.100
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.100
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.100
XX	194	Benzo[k]fluoranthene	207-08-9	0.100
XX	195	Fluoranthene	206-44-0	0.100
XX	196	Phenanthrene	85-01-8	0.100
XX	197	Pyrene	129-00-0	0.100
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.100
XXI	199	2-methoxyethyl acetate	110-49-6	0.100
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.100
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.100
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.100
XXII	204	Diisohexyl phthalate	71850-09-4	0.100
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.100



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXIII	206	1-vinylimidazole	1072-63-5	0.100
XXIII	207	2-methylimidazole	693-98-1	0.100
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.100
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.100
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.100
XXIV	211	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**	-	0.100
XXV	212	1,4-dioxane	123-91-1	0.100
XXV	213	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)	-	0.100
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.100
XXV	215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.100
XXV	216	Glutaral	111-30-8	0.100
XXV	217	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]	-	0.100
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.100

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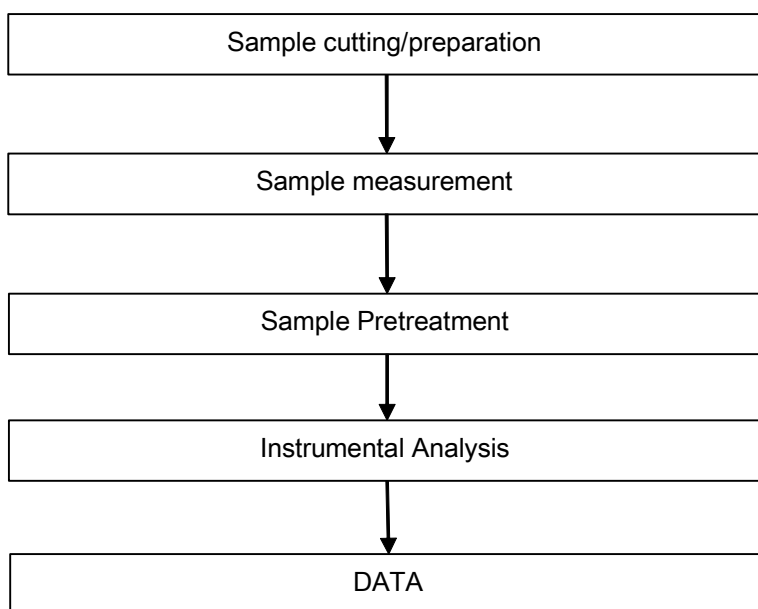
Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	220	(±)-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)	-	0.100
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p- cresol (DBMC)	119-47-1	0.100
XXVI	222	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	255881-94-8	0.100
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.100
/	224	Resorcinol	108-46-3	0.100

ATTACHMENTS

SVHC Testing Flow Chart



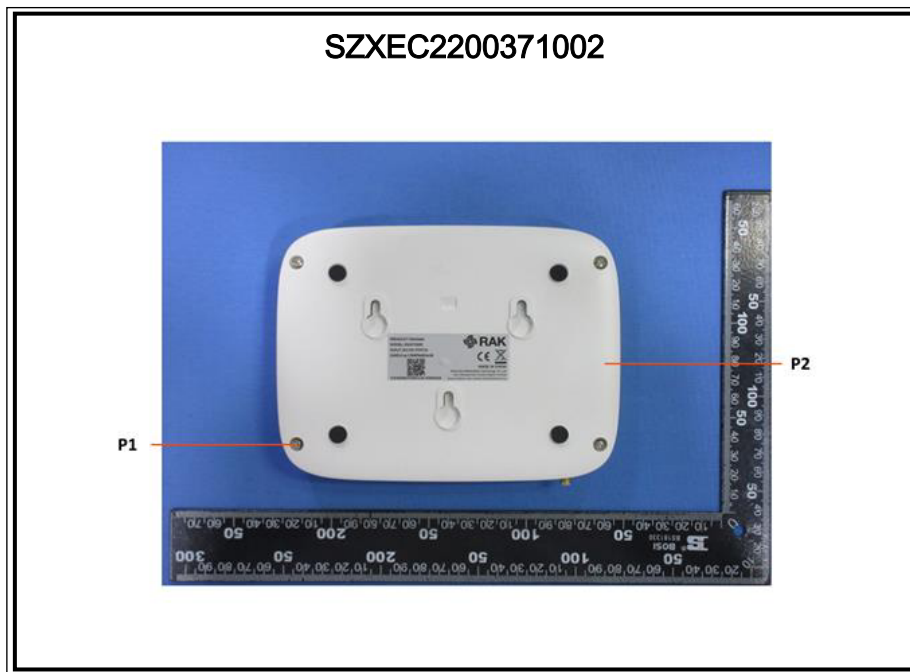
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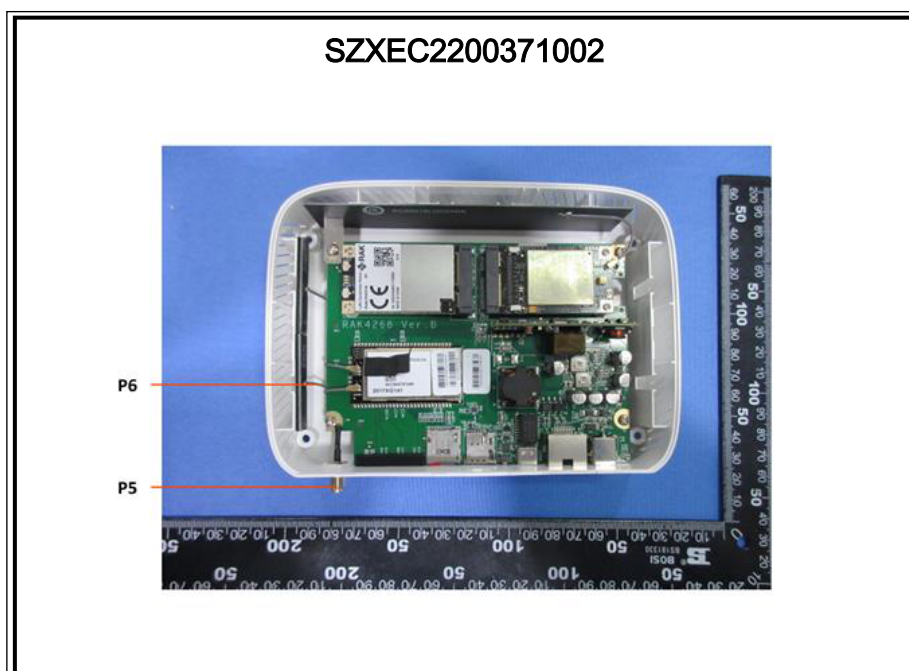
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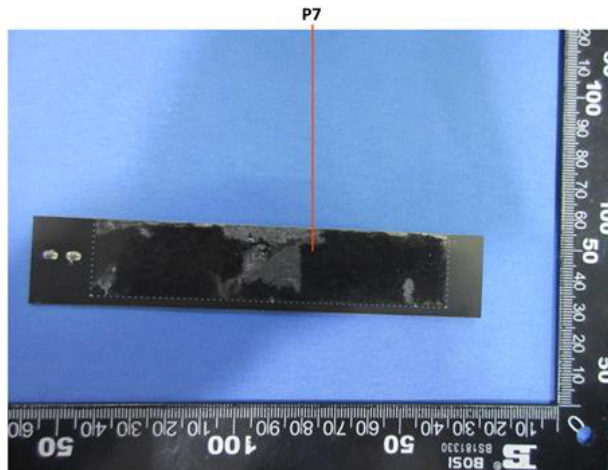
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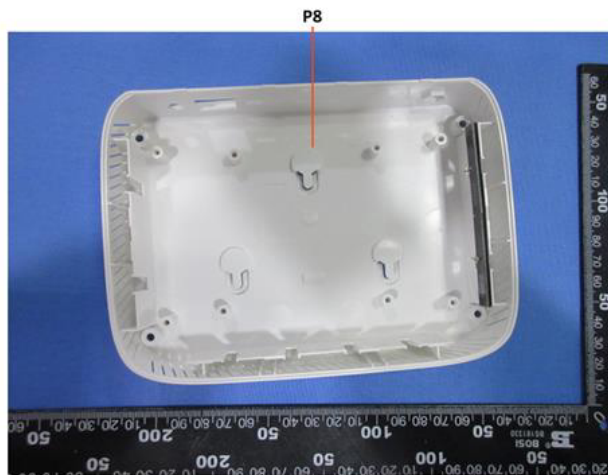


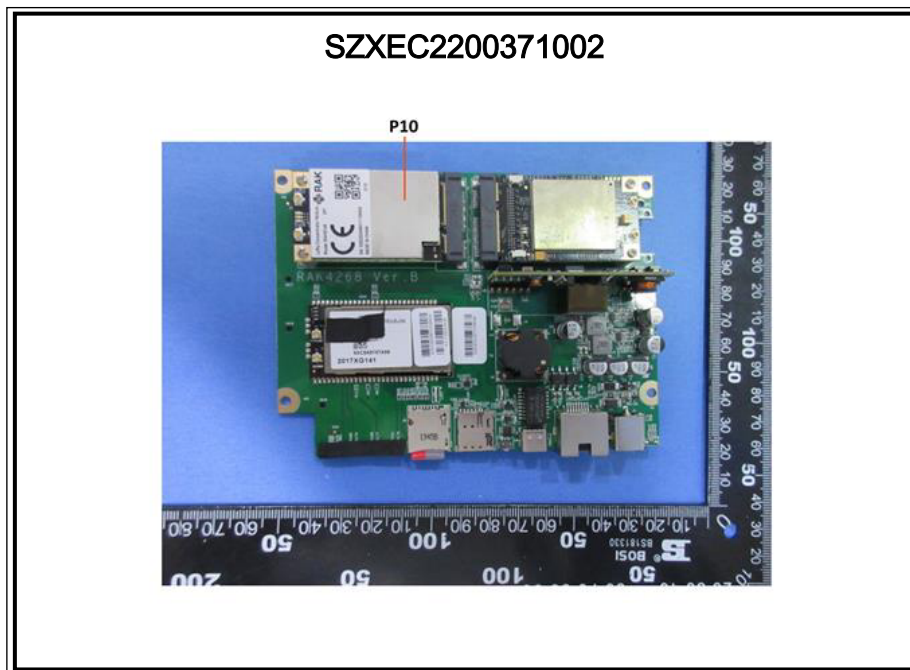
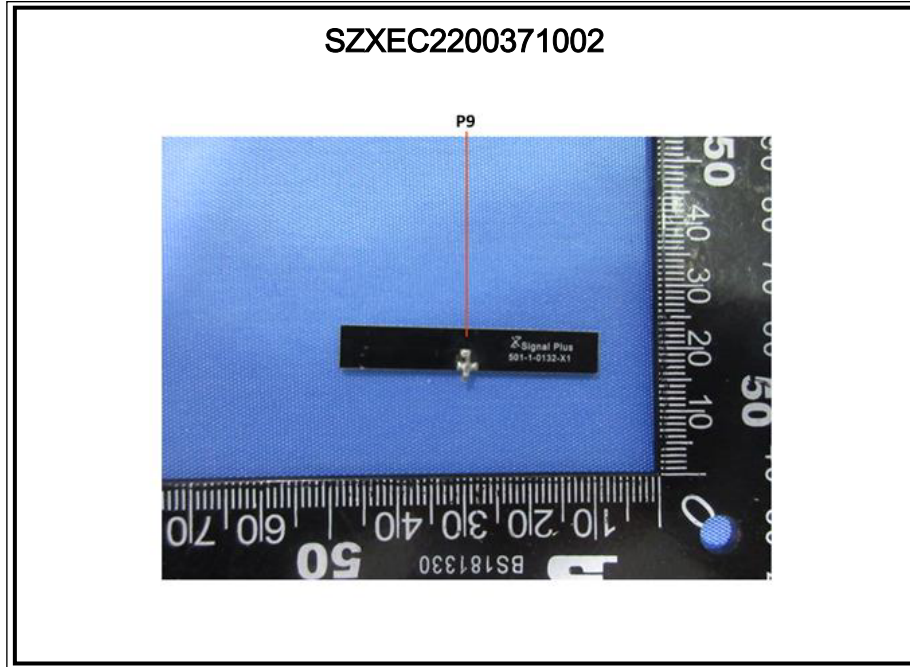


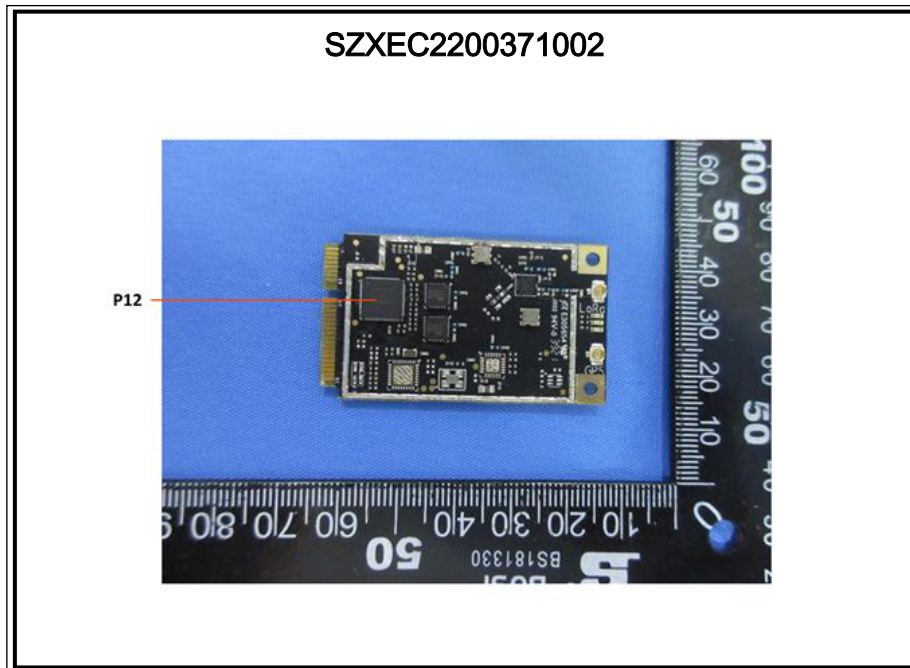
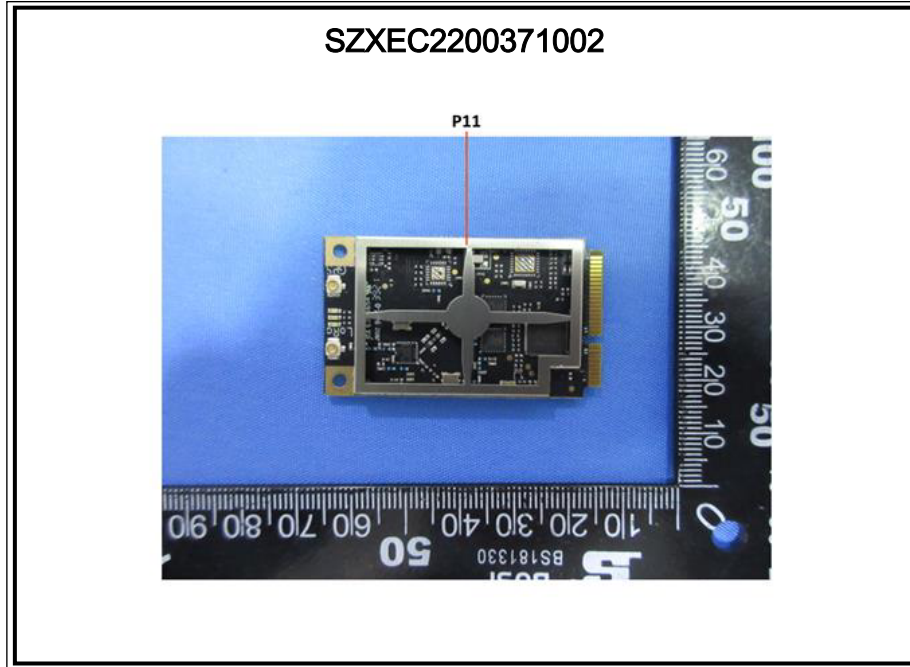
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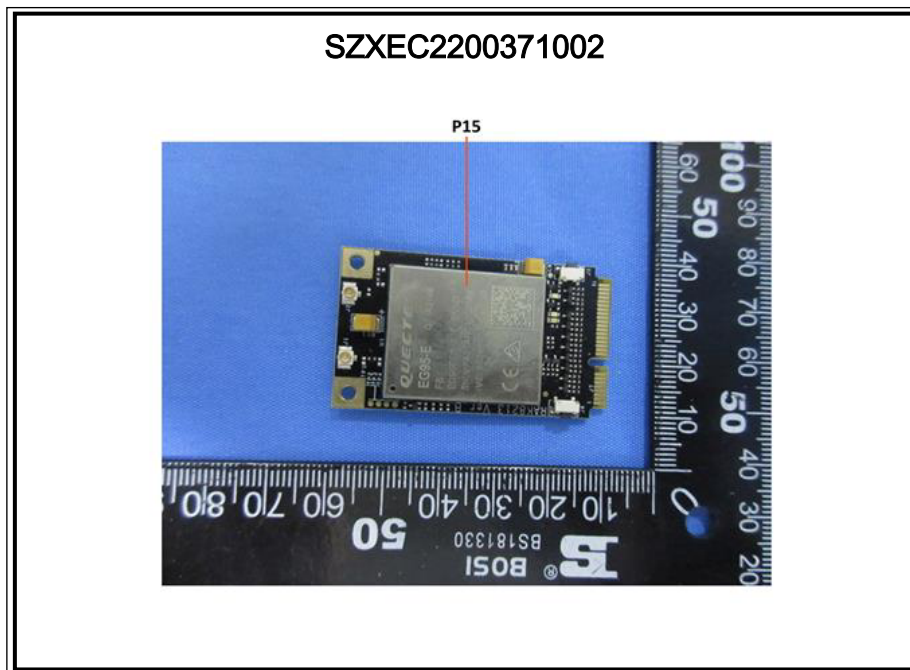
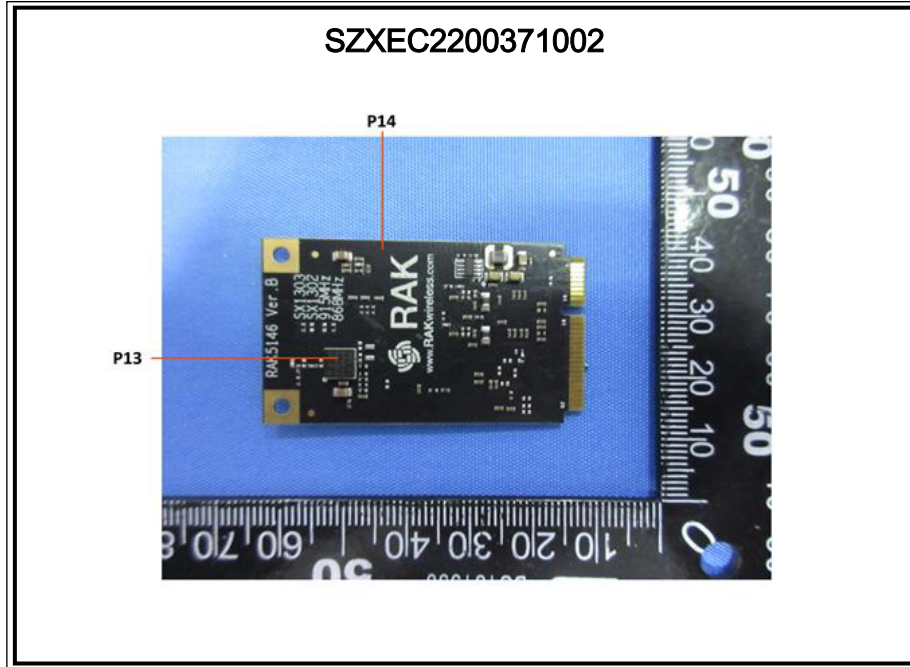


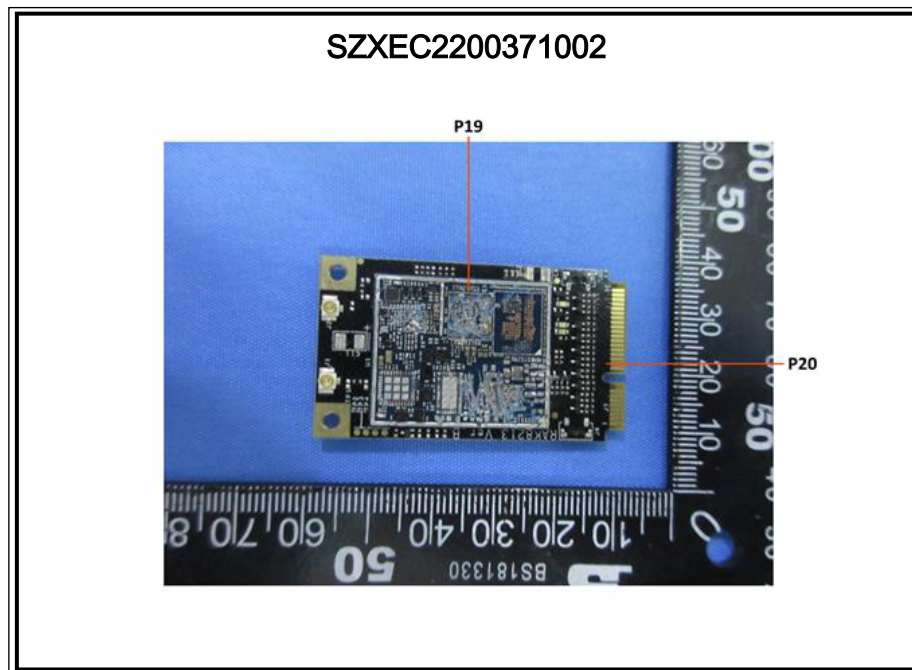
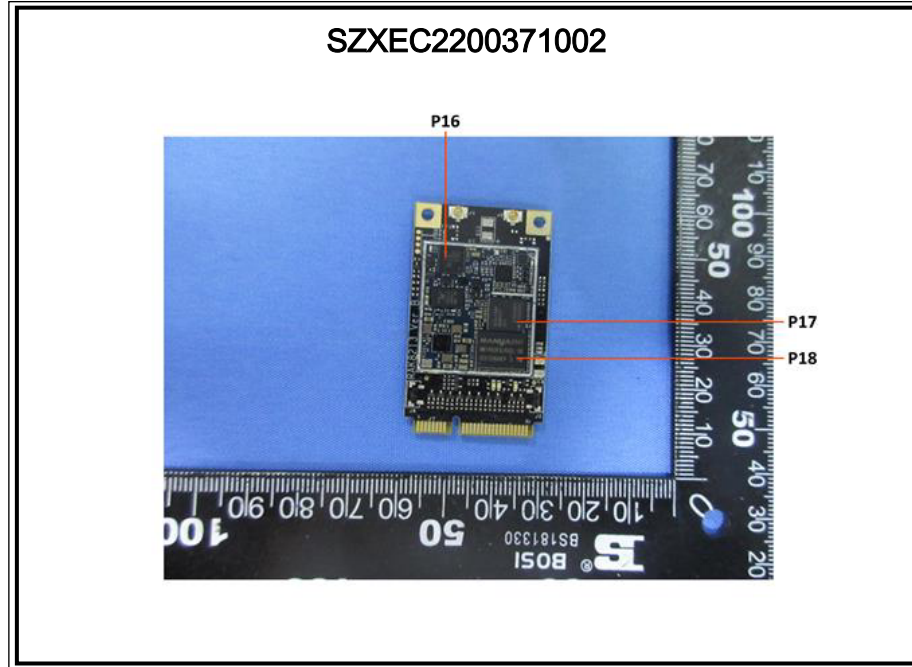
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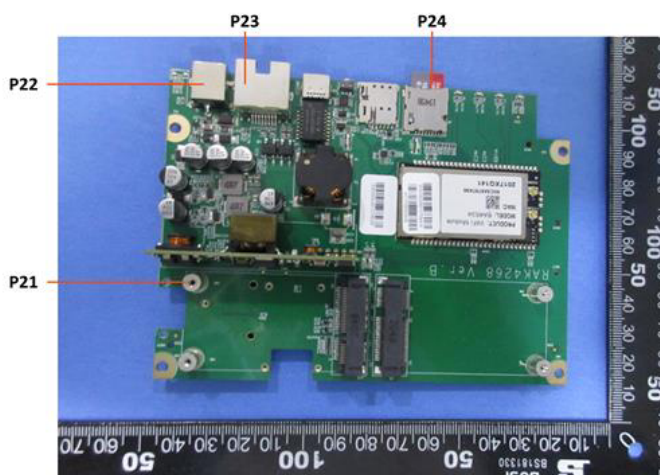




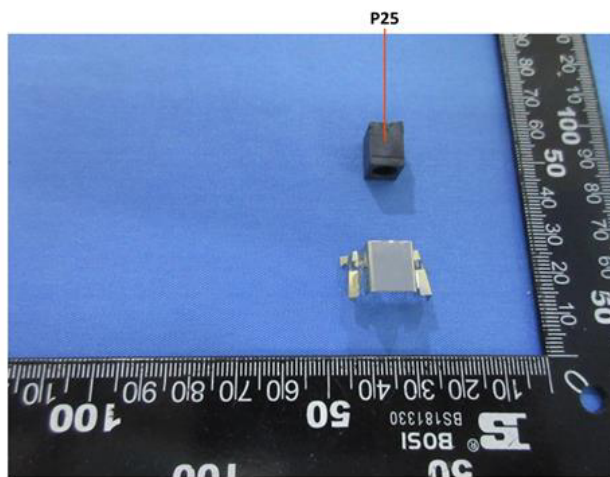


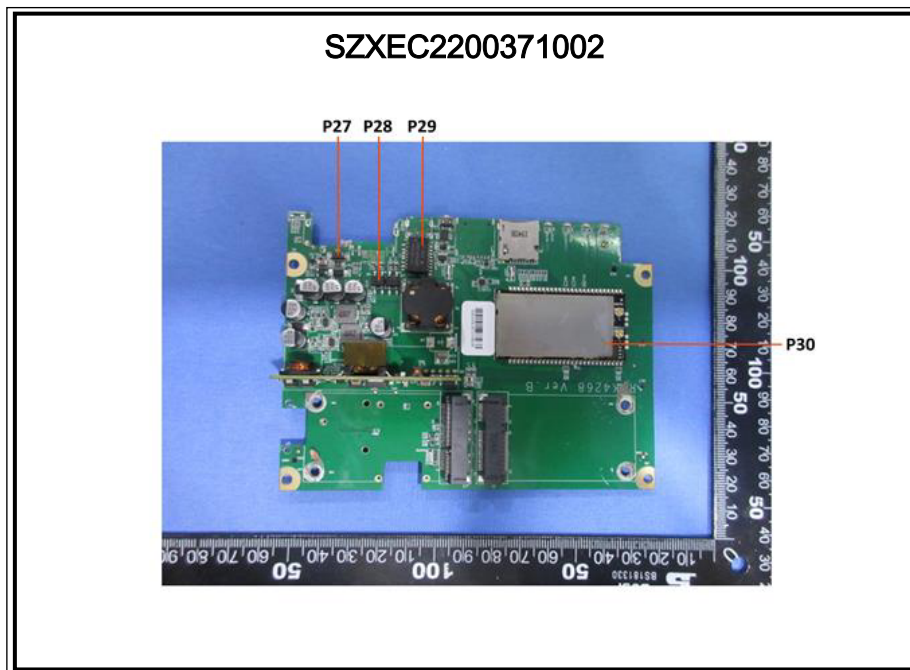
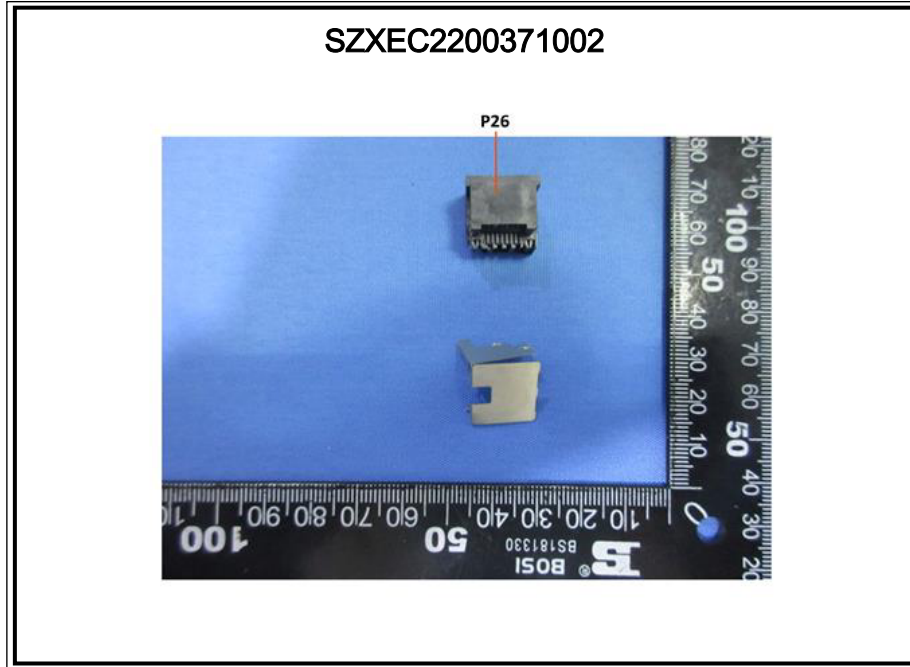


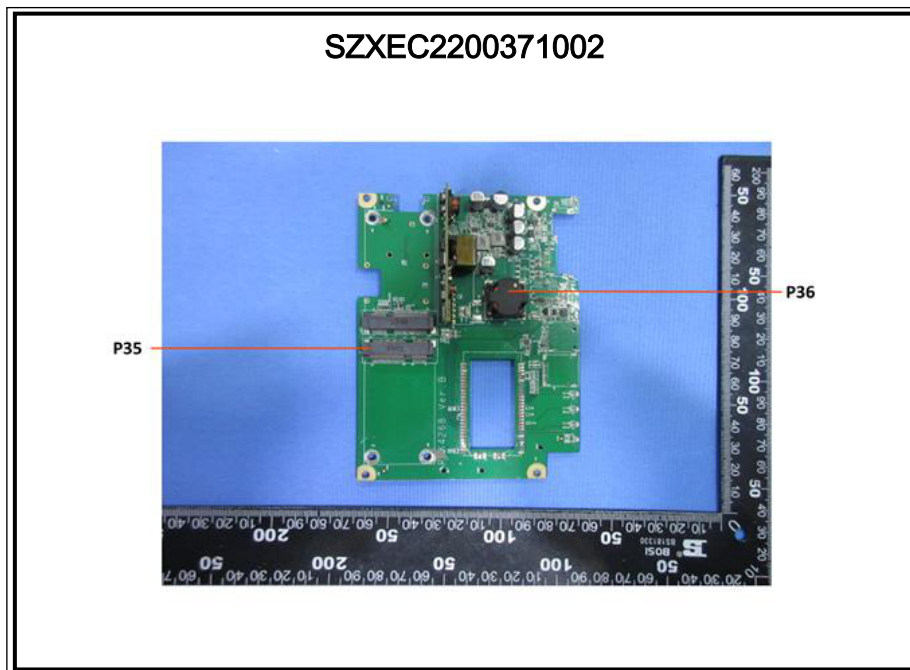
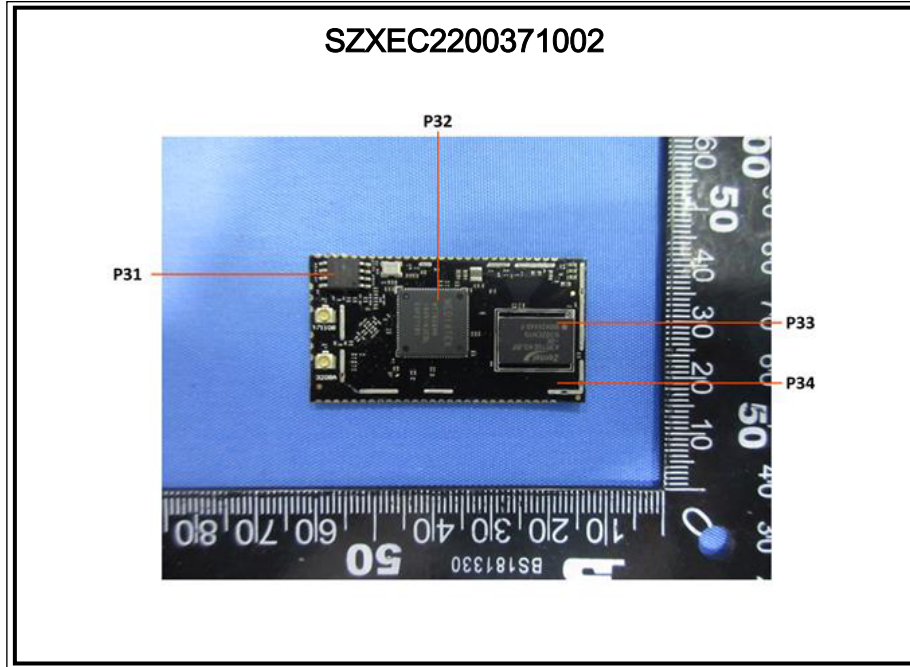
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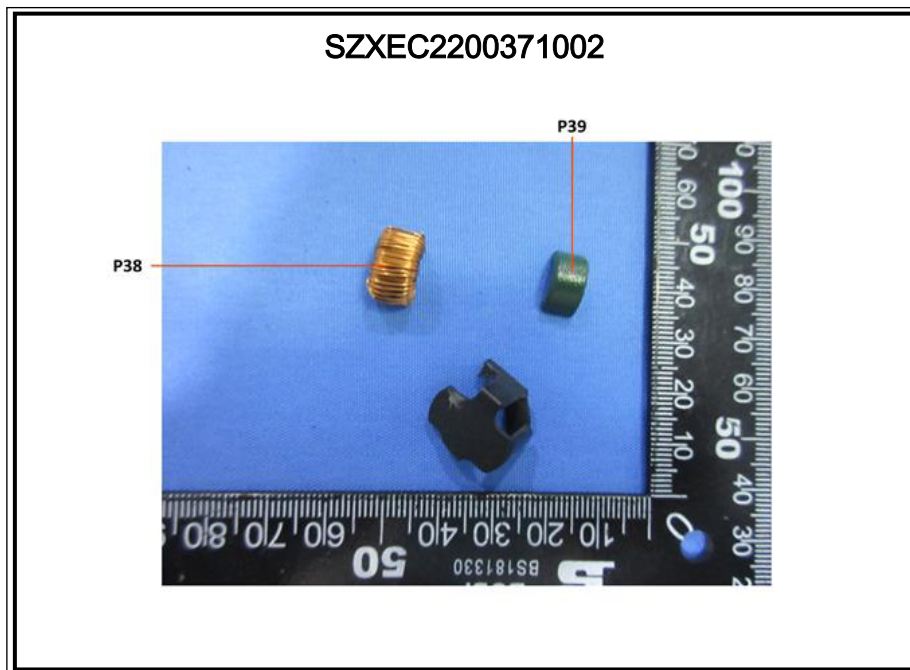
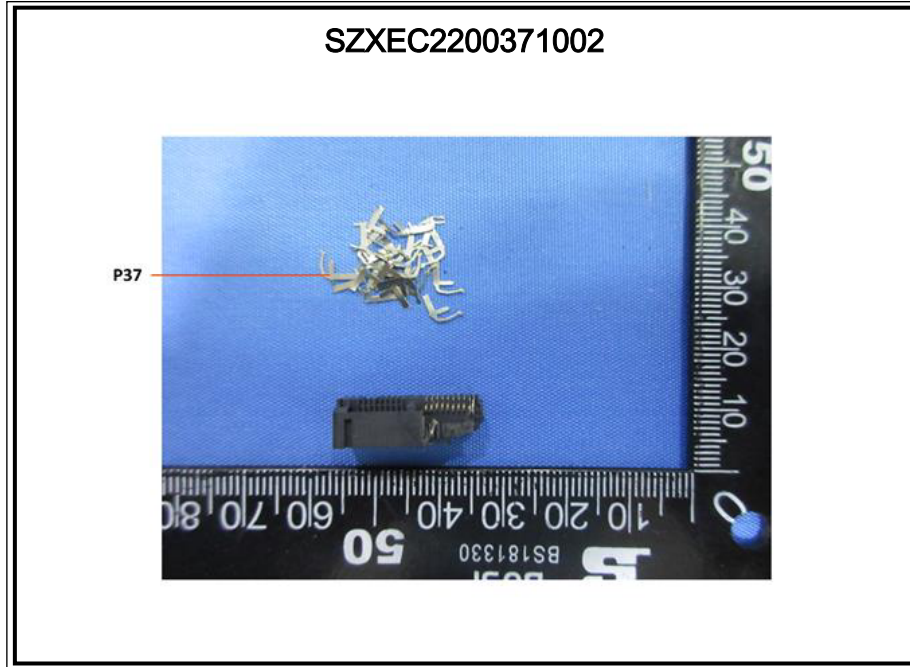


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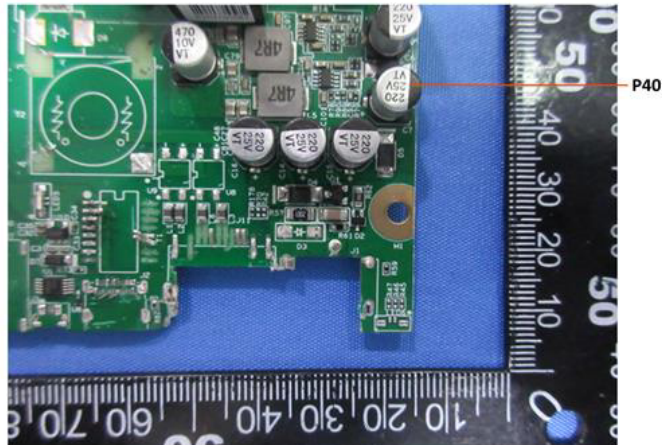








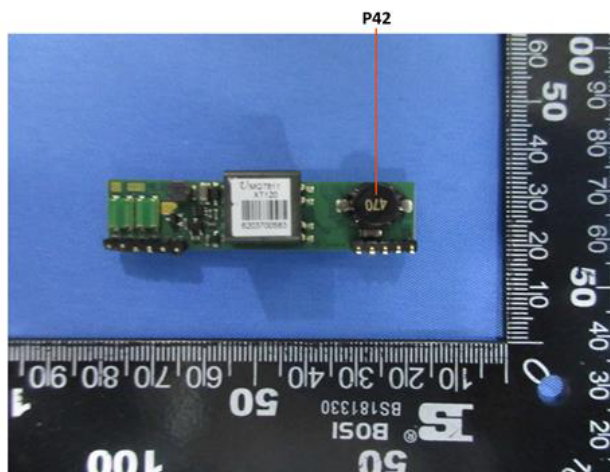
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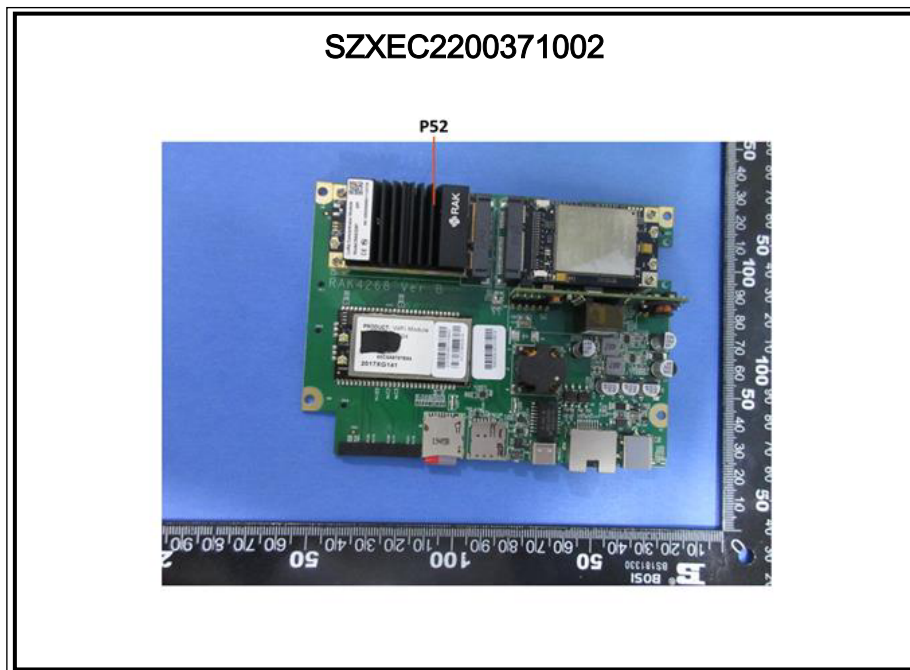
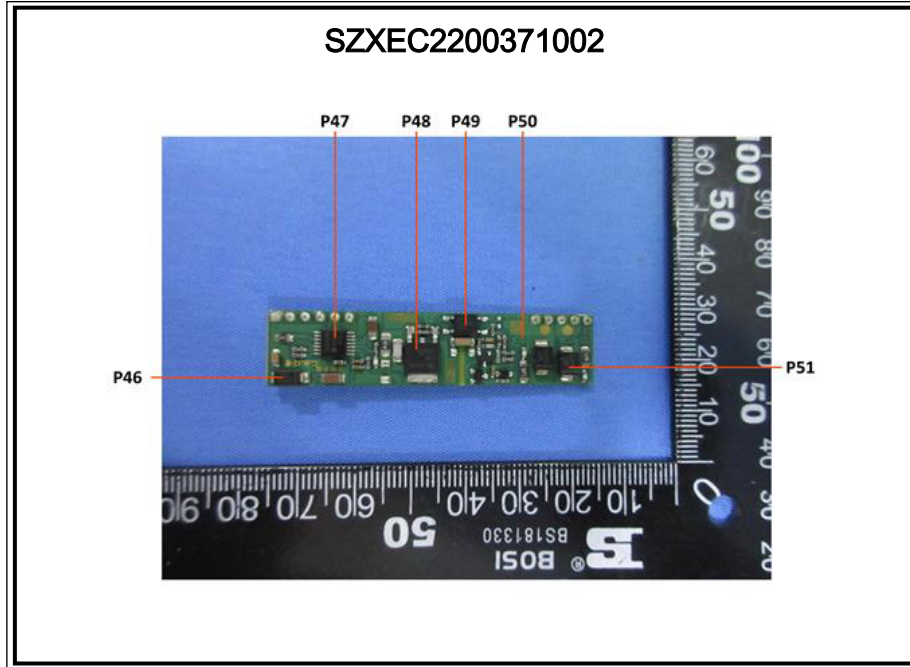


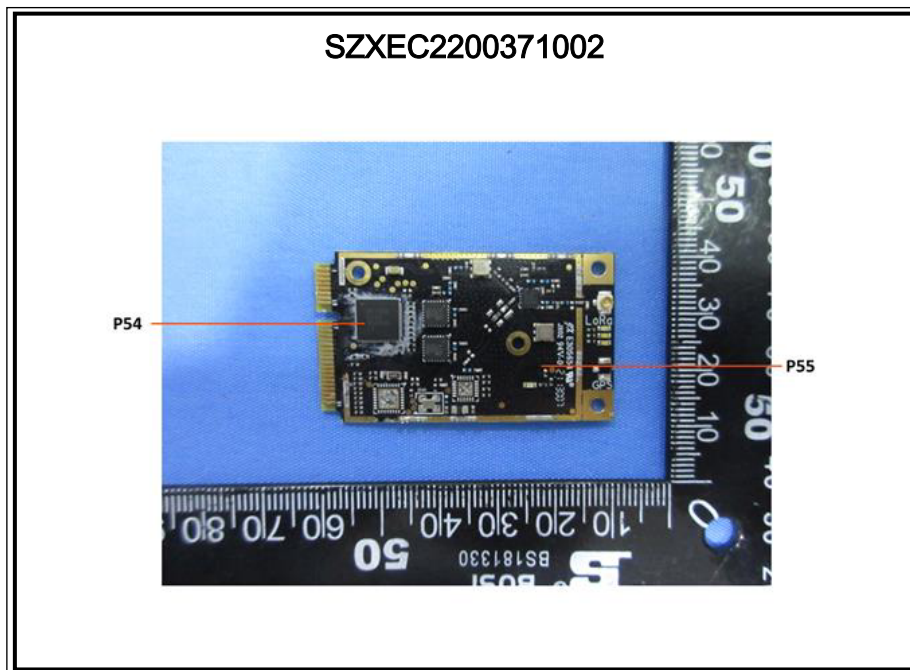
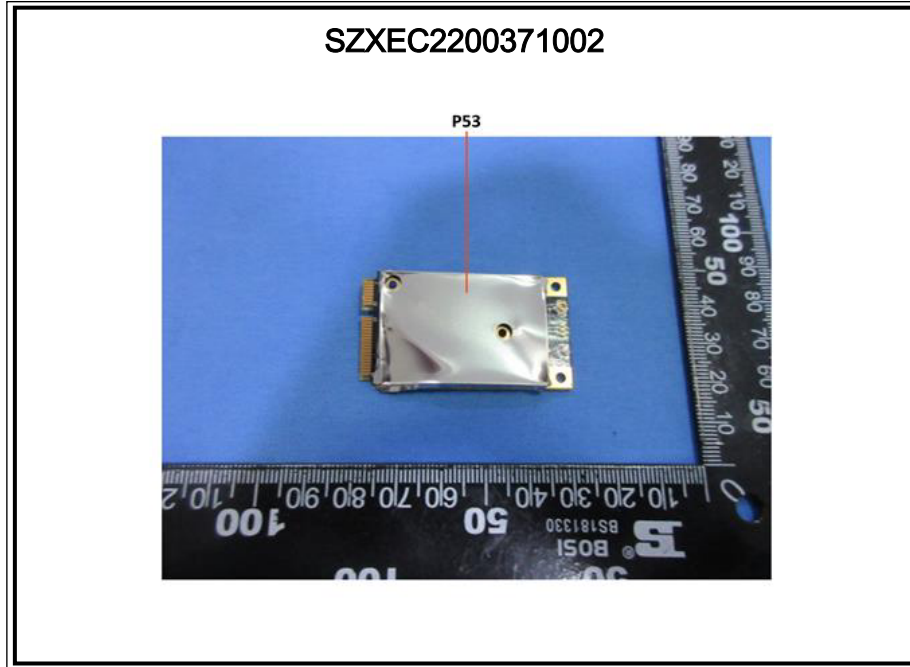
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