

Verification Report No. CANEC2104301401 Date: 22 Apr 2021 Page 1 of 25

WUHAN SUNON ELECTRONICS CO.,LTD

YOUGANG VILLAGE QIANCHUAN STREET, HUANGPI DISTRICT, WUHAN, HUBEI PROVINCE

Sample Name: quartz watch movement CP21-013040 - GZ SGS Job No.:

Tested Basic Model No. **SL68**

(P.O.No):

Tested Extended Model No. **PE90**

(P.O.No):

PE11 AD988 SL39 SL25 SL28 PE39 PE21 SL32 SL33 PE41 PE45 PE42 PE46 Client Ref. Info.:

> PE48 PE49 SP68 SP25 SP28 PE10 PE25 PE26 PE27 PE28 PE50 PE60 PE70 PE80 PE81 PE90 PE93 HC21 HC32 HC33 ZL11 ZL12 ZL18 ZL20 ZL02 PE09

Date of Sample Received: 23 Mar 2021

Verification Period: 23 Mar 2021 - 22 Apr 2021

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method: Please refer to next page(s). Verification Result: Please refer to next page(s).

Verification Conclusion: Based on the verification results of the submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

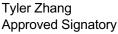
Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Tyler Zhang



检验检测专用意



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Verification Method:

- 1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
- (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
- (2) Wet chemical test method
- a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
- b.With reference to IEC 62321-5:2013, determination of Lead by ICP-OES c.With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES
- d.With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using UV-Vis. e.With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
- 3. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	SL68- White plastic sheet	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
2	SL68- Black plastic shell	Pb	BL			Comply	23 Mar 2021
	,	Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
3	SL68- Silvery metal screw	Pb	IN		2246▲	Comply	23 Mar 2021
	,	Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	IN		ND	Comply	
		PBBs					
		PBDEs					
		DBP					



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		BBP					
		DEHP					
		DIBP					
4	SL68- White plastic knob	Pb	BL			Comply	23 Mar 2021
	,	Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
5	SL68- Silvery metal part	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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6	SL68- Copper-colored	Pb	BL			Comply	23 Mar 2021
	metal wire w/ transparent	Cd	BL			Comply	
	surface	Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
7	SL68- Silvery body	Pb	BL			Comply	23 Mar 2021
	CLOO Chivery body	Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
8	SL68- Transparent plastic	Pb	BL			Comply	23 Mar 2021
-	part	Cd	BL			Comply	20 IVIGI 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
9	SL68- Silvery metal sheet	Pb	BL			Comply	23 Mar 2021
	ĺ	Cd	BL			Comply	20 10101 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
10	SL68- Transparent plastic	Pb	BL			Comply	23 Mar 2021
	part	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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11	SL68- Silvery metal part	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
12	SL68- Silvery metal part	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
13	SL68- Silvery metal part	Pb	BL			Comply	23 Mar 2021
	,	Cd	BL			Comply	20 IVIGI 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					



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		BBP					
		DEHP					
		DIBP					
14	SL68- Green "PCB"	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	20 11101 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
15	SL68- Silvery metal solder	Pb	BL			Comply	23 Mar 2021
	,	Cd	BL			Comply	20 11101 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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16	SL68- White plastic gear	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
17	PE90- White plastic ring w/ black printing	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	25 Wai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
18	PE90- Blue surfaced	Pb	BL			Comply	23 Mar 2021
	metal sheet w/ golden	Cd	BL			Comply	20 IVIGI 2021
	printing	Hg	BL			Comply	
		Cr(VI)▼	IN		ND	Comply	
		PBBs					
		PBDEs					
		DBP					



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		BBP					
		DEHP					
		DIBP					
19	PE90- Black plastic shell	Pb	BL			Comply	23 Mar 2021
	,	Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
20	PE90- Black plastic cover	Pb	BL			Comply	23 Mar 2021
	·	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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21	PE90- Copper-colored	Pb	BL			Comply	23 Mar 2021
	metal sheet	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
22	PE90- White plastic part	Pb	BL			Comply	23 Mar 2021
	1 200 Willo plaotio part	Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
23	PE90- Yellow plastic gear	Pb	BL			Comply	23 Mar 2021
-		Cd	BL			Comply	14 Apr 2021
		Hg	BL			Comply	17 Apr 2021
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	



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		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
24	PE90- Silvery metal part	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	IN		ND	Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
25	PE90- Black plastic part	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	14 Apr 2021
		Hg	BL			Comply	117012021
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	



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26	PE90- Black "PCB"	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP			ND	Comply	
		BBP			ND	Comply	
		DEHP			ND	Comply	
		DIBP			ND	Comply	
27	PE90- Golden metal sheet	Pb	BL			Comply	23 Mar 2021
		Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	IN		ND	Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
28	PE90- Silvery metal	Pb	BL			Comply	23 Mar 2021
	solder	Cd	BL			Comply	20 Mai 2021
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					



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		BBP		 		
		DEHP		 		
		DIBP		 		
29	PE90- Silvery metal part	Pb	IN	 23700▲	Comply	23 Mar 2021
		Cd	BL	 	Comply	Zo Mai Zoz i
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
30	PE90- Silvery metal part	Pb	BL	 	Comply	23 Mar 2021
		Cd	BL	 	Comply	20 1/101 202 1
		Hg	BL	 	Comply	
		Cr(VI)▼	IN	 ND	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Remark

(1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs.

There is the result on total Cr while test item on restricted substances is Cr(VI).

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC62321-3-

1:2013 (unit: mg/kg).

1.20 10 (drift: 1119/119).						
Element	Polymer	Metal	Composite Materials			
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>			
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>			
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>			
Br	BL≤(300-3σ) <x< td=""><td></td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>		BL≤(250-3σ) <x< td=""></x<>			
Cr	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>			

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value(unit: mg/kg).

Compound	Polymer			
DBP	BL ≤ 600< X			
BBP	BL ≤ 600< X			
DEHP	BL ≤ 600< X			
DIBP	BL ≤ 600< X			

- (3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, - = Without BOM.
 - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP			
Unit	mg/kg									
MDL	10	10	10	100	100	100	100			

The MDL for single compound of PBBs and PBDEs is 100 mg/kg,

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10µg/cm².



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- (c) [▼] =Metal sample
 - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 $\mu g/cm^2$.

The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²).

The coating is considered a non-CrVI based coating

- c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive
 - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25



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(5) ▲=According to the declaration from the client,

Lead (Pb) in No.3 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(a)-I|: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0.35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight.

Lead (Pb) in No.29 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(c)|: Copper alloy containing up to 4 % lead by weight.

(6) According to the declaration from applicant, the materials of other parts in Models "PE90" are the same as those in Model "SL68", and the results of Model "SL68" for support the results of other parts in Models "PE90". The applicant will take the responsibility of all discrepancy and risk.



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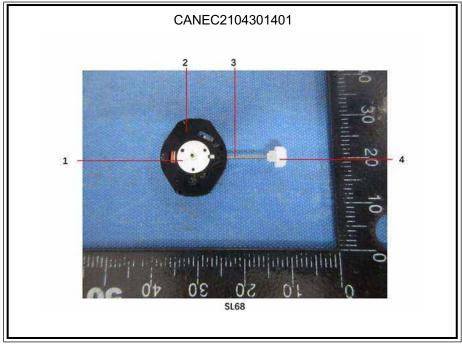
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Sample photo:







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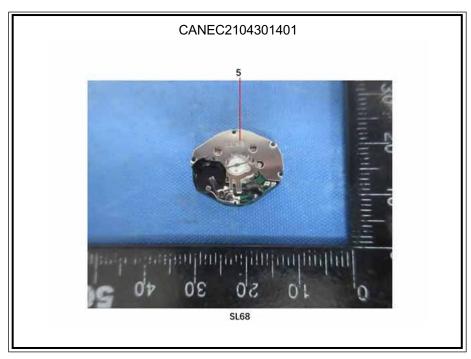
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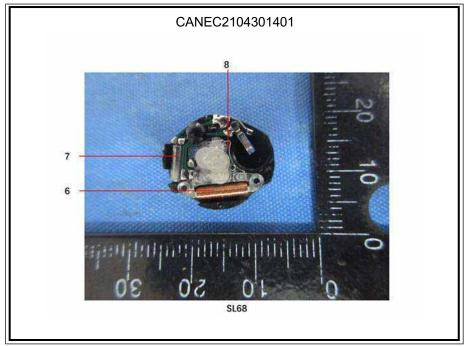


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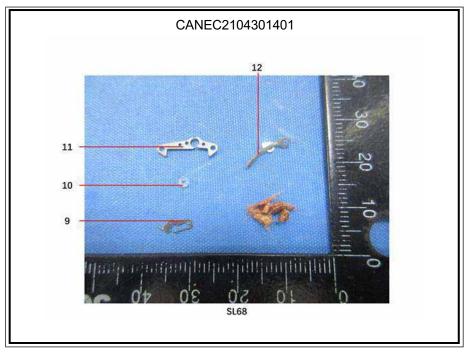
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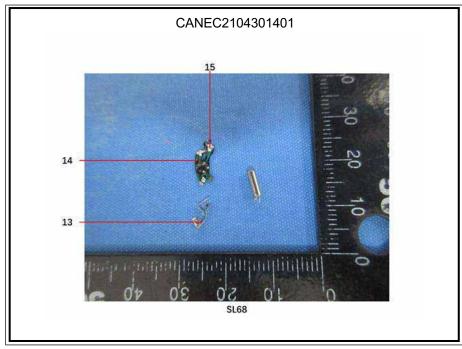


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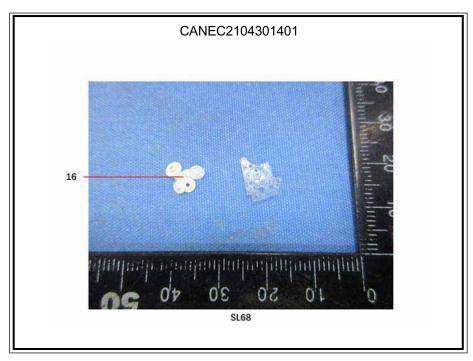
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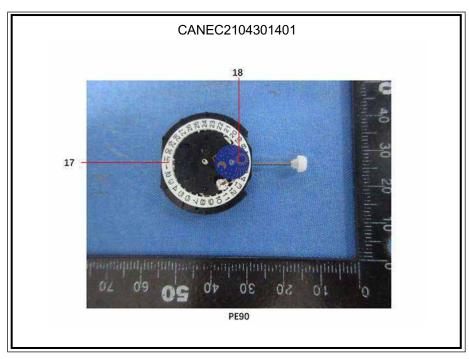
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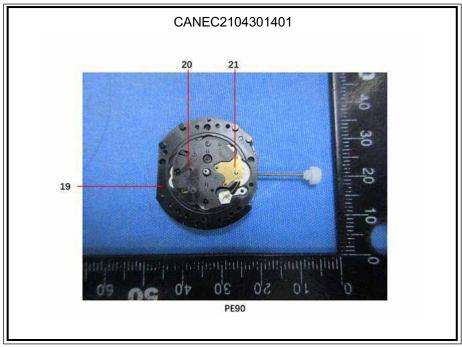


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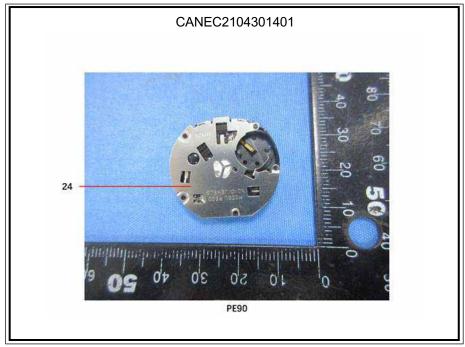


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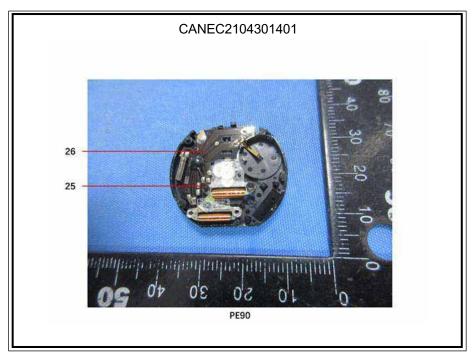
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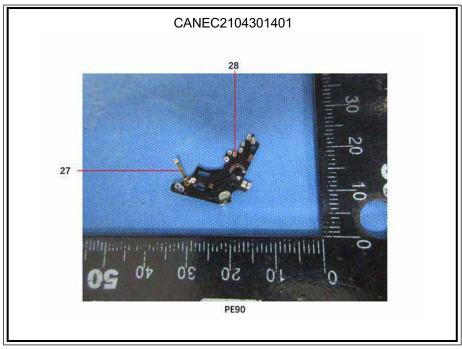


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