

Urgent Field Safety Notice *SBN-CPS-2017-005*

CPS / Serum Work Area Version 1 02-March-2017

Fretting corrosion on Sample Probe connector may cause sporadic Liquid Level Detection (LLD) failure

Product Name	PROBE SAMPLE (GMMI 04547241001)	
	PROBE SAMPLE S (GMMI 05899427001)	
	SAMPLE PROBE (GMMI 04945794001)	
Product Description	PROBE SAMPLE (GMMI 04547241001)	
	PROBE SAMPLE S (GMMI 05899427001)	
	SAMPLE PROBE (GMMI 04945794001)	
GMMI / Part No	PROBE SAMPLE (GMMI 04547241001)	
Device Identifier	PROBE SAMPLE S (GMMI 05899427001)	
	SAMPLE PROBE (GMMI 04945794001)	
Instrument/System Affected	cobas c 311 analyzer (cat. no. 04826876001)	
	cobas c 501 module (cat. no. 04745914001)	
	cobas c 502 module (cat. no. 05964067001)	
	cobas c 701 module (cat. no. 05641489001)	
	cobas c 702 module (cat. no. 06473245001)	
	cobas 8000 ISE module 900 (cat. no. 05641497001)	
	cobas 8000 ISE module 1800 (cat. no. 05964075001)	
SW Version	Not applicable	
Type of Action	Field Safety Corrective Action (FSCA)	

Dear Valued Customer,

Description of Situation

We regret to inform you that in very rare cases a disturbance of the sample liquid level detection (LLD) may occur due to a fretting corrosion on the sample probe connector due to a production change for the connector. In those very rare cases where the disturbance of the sample liquid level detection (LLD) occurs, the affected sample probe may dip into the sample material deeper than intended, accordingly the affected sample probe may be not washed adequately (this may lead to carryover, medical risk cannot be excluded).

Since the beginning of 2017, the affected sample probe connector type has been changed in production to a new connector type. With that new connector type the sample liquid level detection (LLD) is ensured to fully function as specified.

The potentially affected sample probes will be exchanged free of charge.

The following analyzers have been delivered with potentially affected sample probes:



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cobas ISE module 900 / **cobas** ISE module 1800: serial numbers from 15D5-01 to 17L8-10, 17L9-09 and 17L9-10 **cobas c** 311 analyzer: serial numbers from 15D0-01 to 16D8-20, from 16D9-02 to 16E0-10, from 16E0-16 to 16F9-08, from 16F9-10 to 16F9-18 and 16F9-20

cobas c 501 module: serial numbers from 15P1-01 to 16Y4-19, from 16Y5-01 to 17Z3-20

cobas c 502 module: serial numbers from 15A6-01 to 16D9-10 **cobas c** 701 module: serial numbers from 15E6-01 to 17H7-10 **cobas c** 702 module: serial numbers from 15F6-07 to 17M8-10

Note: If the sample probe in the analyzers with serial numbers listed above have been exchanged for another sample probe, then please refer to the list below with the serial numbers for the potentially affected sample probes.

The sample probes with the following serial numbers (printed on the sample probe) may be affected:

Sample Probes cobas c 501 module/ cobas c 502 module/ cobas c 311 analyzer										
Production site	ion site Dot mark 2015 2016 2017									
(box print)	(probe print)	(probe print)	(probe print)	(probe print)						
Naka	black	1509-001 to 1521-100	1622-001 to 1687-040	Not affected						
Omuta	green	1535-001 to 1537-100	1638-001 to 1684-035	Not affected						

Sample Probes cobas c 701/ cobas c 702/ cobas ISE module 900/ cobas ISE module 1800								
Production site	Production site Dot mark							
(box print)	(probe print) *							
Naka	black							
Omuta	green							

^{*} There is no lot number printed on the sample probes.

To identify the potentially affected sample probes refer to the attachment "How to identify potentially affected sample probes".

Actions taken by Roche Diagnostics

The manufacturer Hitachi High Technologies Corporation has clearly identified the root cause and since the beginning of 2017, the affected sample probe connector type has been changed in production to a new connector type. With that new connector type the sample liquid level detection (LLD) is ensured to fully function as specified.

The potentially affected sample probes will be exchanged free of charge.

Actions to be taken by the customer/user

Please check the sample probe in use in your analyzer (based on the serial number information on the previous page) referring to the attachment "How to identify potentially affected sample probes."



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Only if the sample probe(s) in use is from the potentially affected serial numbers, then please:

- Inform your local Roche affiliate about the total quantity of the affected sample probes used in your analyzer(s). With that information, we will plan for the exchange of the affected sample probe(s).
- Enable the "Clot Detection" and "Clot Detection for Calib./Control" settings in "Utility-System-Alarm Settings" (refer to step 1 in the attachment(s) "How to proceed whenever the system alarm "Sample Short" or "Abnormal Aspiration" is issued" relevant to the analyzer/module type used in your laboratory).
- Until the sample probe exchange takes place, whenever the analyzer issues the system alarm "Sample Short" or "Abnormal Aspiration" for a sample with sufficient sample volume, please follow the instructions in the attachment(s) "How to proceed whenever the system alarm "Sample Short" or "Abnormal Aspiration" is issued" relevant to the analyzer/module type used in your laboratory.
- If carryover cannot be excluded, affected samples should be handled according to the local regulations including the decision whether previously generated results should be reviewed.

Communication of this Field Safety Notice (if appropriate)

This notice must be passed on to all those who need to be aware within your organization or to any organization/individual where the potentially affected devices have been distributed/supplied.

Please transfer this notice to other organizations/individuals on which this action has an impact.

Please maintain awareness of this notice and resulting action for an appropriate period to ensure the effectiveness of the corrective action.

The following statement is mandatory in FSNs for EEA countries but is not required for the rest of the World:

Include if applicable: The undersigned confirms that this notice has been notified to the appropriate Regulatory Agency.

We apologize for any inconvenience this may cause and hope for your understanding and your support.

Best regards,



Fretting corrosion on Sample Probe connector may cause sporadic Liquid Level Detection (LLD) failure

Contact Details

To be completed locally:
Name
Title
Company Name
Address
Tel. +xx-xxx-xxxx xxxx
Email name@roche.com

The following statement is mandatory in FSNs for EEA countries but is not required for the rest of the World:

Include if applicable: The undersigned confirms that this notice has been notified to the appropriate Regulatory Agency.

Target

With this procedure potentially affected Sample Probes can be identified both already installed Sample Probes and still boxed Sample Probes.

Identification of potentially affected sample probes for cobas c501/ cobas c502 and cobas c311

There are two HHT production plants NAKA & OMUTA producing Sample Probes. Potentially affected Sample Probes can be easily encountered by the following procedure. If a yellow dot is applied to the Sample Probe connector the Sample Probe is already equipped with a modified connector.

04547241001 PROE	BE SAMPLE (cobas c501/ cobas c502)									
05899427001 PROE	BE SAMPLE S (cobas c311)									
Affected serial number which printed on the probe	NAKA; 1509-001 onward, and <u>no marked yellow dot</u> on the connector. OMUTA; 1535-001 onward, and <u>no marked yellow dot</u> on the connector. Refer to Place of yellow dot on the connector in this table for detail.									
Identification of production site in HHT	Either NAKA or OMUTA is indicated on the original package. Either Black or Green dot is marked on the sample probe.									
	Black dot: Produced by NAKA Green dot: Produced by OMUTA									
Printed place on sample probe	727-0587 <u>588 - 397</u>									
	Refer to Rule of printed serial number for detail.									

Rule of printed serial number	727-0587 — Part number YY AA – BBB — Serial number Sequential number (From 001 to 999) Production number (From 01 to 99) Production year Serial number printed on the probes for cobas c501/c502 and cobas c311 are making a common numbering by HHT's two production lines.
Place of yellow dot on the connector	No yellow dot mark on the connector is affected. If the yellow mark on the connector is existed, the probe was modified done by HHT despite if the Serial number which printed on the probe was met.
SAP lot number which printed on the original package	S PROSE ASSI Mat. No 04547241001 Contents 1 1727-05\$5 2727'07'0-7' HI 1838-1841111111 Contents 1 1838-184111111 Contents 1 1838-18411111 Contents 1 1838-1841111 Contents 1 1838-18411111 Contents 1 1838-1841111 Contents 1 1838-18411111 Contents 1 1838-18411111 Contents 1 1838-18411111 Contents 1 1838-18411111 Contents 1 1838-1841111 Contents 1 1838-1841111 Contents 1 Contents 1 Con
Affected Sample Probe for cobas c311 (P/N 724- 0920)	Lot number which indicated on the logistics label 0490232027, 0490233855, 0490236427, 0490238543, 0490241937, 0490248322, 0490250880, 0490235713, 0490252029, 0490256963
Affected Sample Probe for cobas c 501 and c502 (P/N 727-0595)	0490233762, 0490233764, 0490233766, 0490233767, 0490233777, 0490235904, 0490235905, 0490235906, 0490235907, 0490235949, 0490235950, 0490237594, 0490237595, 0490237353, 0490237354, 0490237597, 0490237598, 0490237600, 0490237602, 0490237604, 0490237606, 0490238955, 04902388957, 0490238893, 0490238895, 0490238896, 0490238898, 0490238899, 0490242149, 0490242151, 0490242153, 0490242155, 0490242327, 0490242328, 0490242329, 0490242330, 0490242331, 0490250491, 0490250492, 0490250493, 0490250494, 0490250495, 0490250496, 0490251032, 0490251033, 0490251034, 0490251036, 0490252524, 0490252527, 0490252529, 0490252532, 0490252247, 0490252249, 0490252251, 04902525252, 0490252527, 0490252398, 0490254550, 0490254551, 0490254552, 0490254553, 0490254554, 0490254555, 0490254804, 0490254805, 0490254806, 0490254807, 0490256999, 0490257000, 0490256993, 0490257847, 0490257848, 0490257849, 0490257851, 0490258652

Identification of potentially affected sample probes for cobas c701/ cobas c702

HHT production plants NAKA & OMUTA producing Sample Probes as well for **cobas** c701/ **cobas** c702 and ISE. Potentially affected Sample Probes can be encountered by the following procedure.

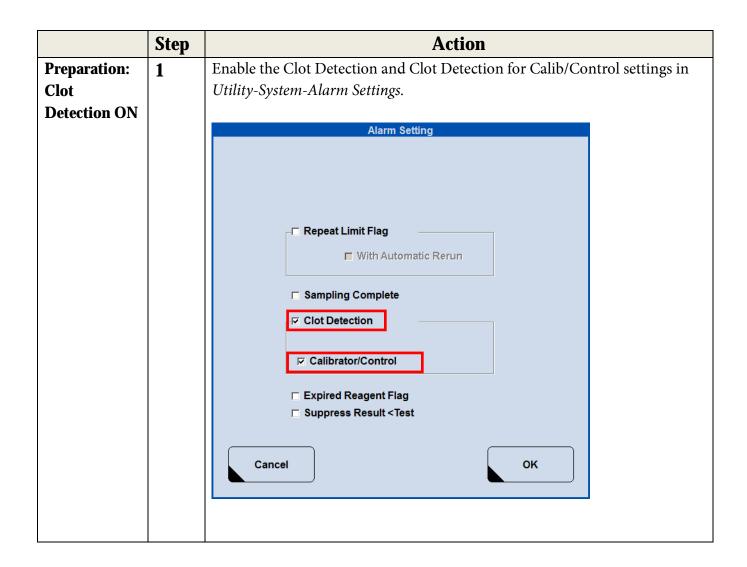
04945794001 SAN	MPLE PROBE (cobas c701/ cobas c702)
Affected serial	ISE and Sample Probe for cobas c701/ cobas c702 do not have serial number printed on the
number which	probe itself.
printed on the	
probe	
Identification of production site in HHT	Either NAKA or OMUTA is indicated on the original package. Either Black or Green dot is marked on the sample probe.
	Black dot : Produced by NAKA Green dot : Produced by OMUTA
Place of yellow dot on the connector	No yellow dot mark on the connector is affected. If the yellow mark on the connector is existed, the Sample Probe was already modified by HHT.
SAP lot number	
which printed on the original package	S-AUZZLE ASS Mat. No 04945784001 Mat. No 04945784
	Refer to the separate attachment for detail of SAP lot numbers which printed on the original package.

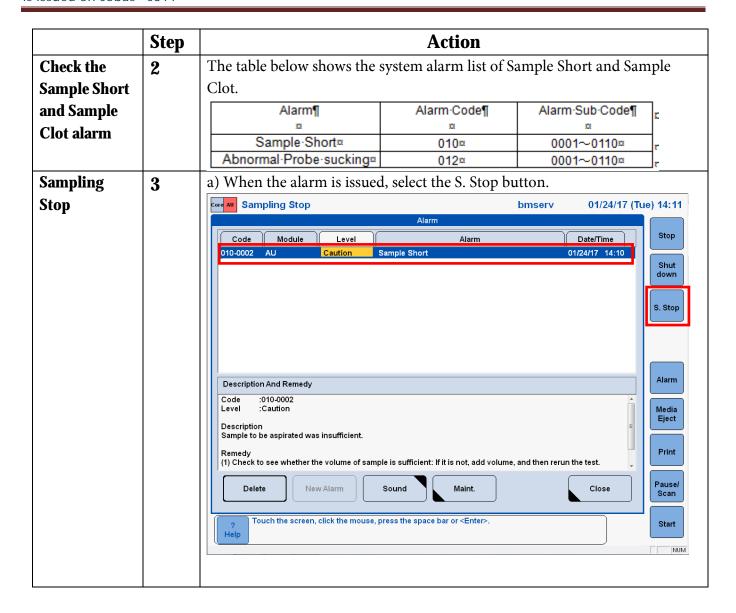
Affected	0490238960, 0490238961, 0490238961, 0490238961, 0490238963, 0490242332, 0490251040,
Sample Probe	0490251041, 0490252546, 0490252547, 0490252547, 0490254810, 0490254811, 0490221658,
for cobas c701/	0490223228, 0490223229, 0490225255, 0490226172, 0490226173, 0490226174, 0490227626,
cobas c702	0490227627, 0490227628, 0490230276, 0490230277, 0490230279, 0490232203, 0490232204,
(P/N 731-0313)	0490232205, 0490232206, 0490233778, 0490233779, 0490233780, 0490233781, 0490233783,
	0490235909, 0490235910, 0490235911, 0490235912, 0490235913, 0490237365, 0490237366,
	0490237367, 0490237368, 0490237369, 0490237370, 0490238901, 0490238902, 0490238903,
	0490238904, 0490242160, 0490242161, 0490242163, 0490242165, 0490242166, 0490250498,
	0490250499, 0490250500, 0490250501, 0490250502, 0490252308, 0490252312, 0490252318,
	0490252320, 0490252322, 0490254558, 0490254559, 0490254560, 0490254561, 0490254562,
	0490257035, 0490257036, 0490257037, 0490257038, 0490257039, 0490257854, 0490257855,
	0490257856, 0490257857, 0490257858

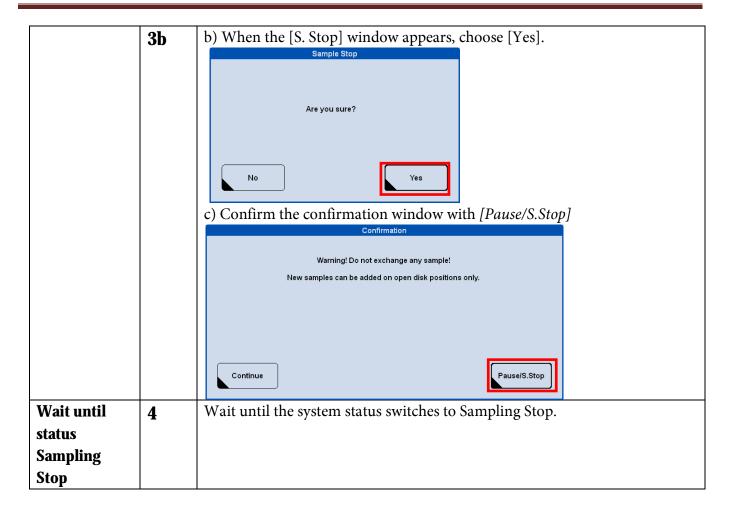
<end of the document>

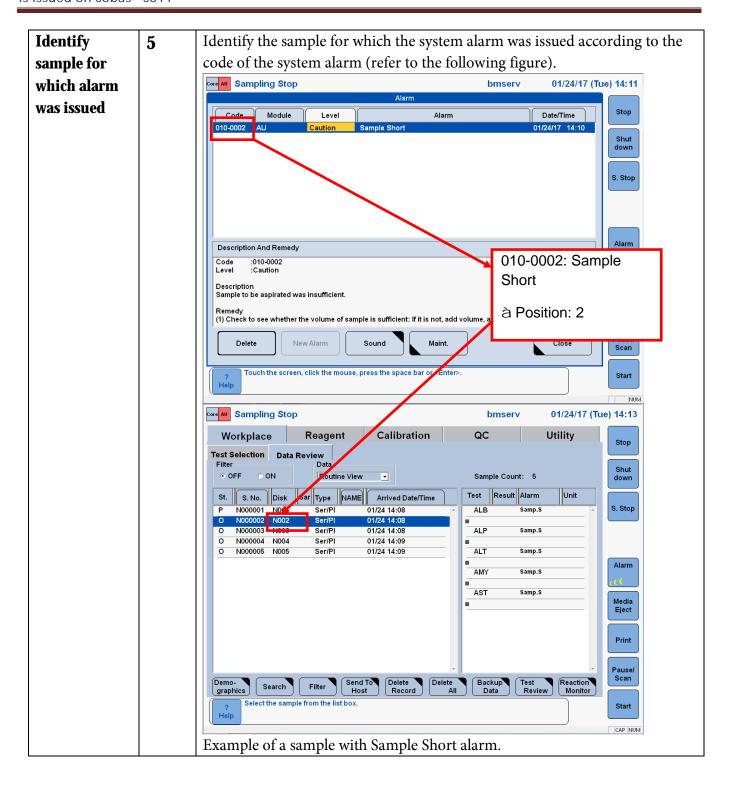
When the system alarm Sample Short or Abnormal Probe sucking is issued while there is still sufficient amount of sample volume, it is necessary to replace the sample probe. A verification of the measurement results is required.

When there is no replacement sample probe available, clean the inside and the outside of the sample probe. This is described in the Operator's Manual Version 3.0. Please refer to the coinciding procedures "Eliminating clogging of the pipetter probes" and "Cleaning probes and nozzles".

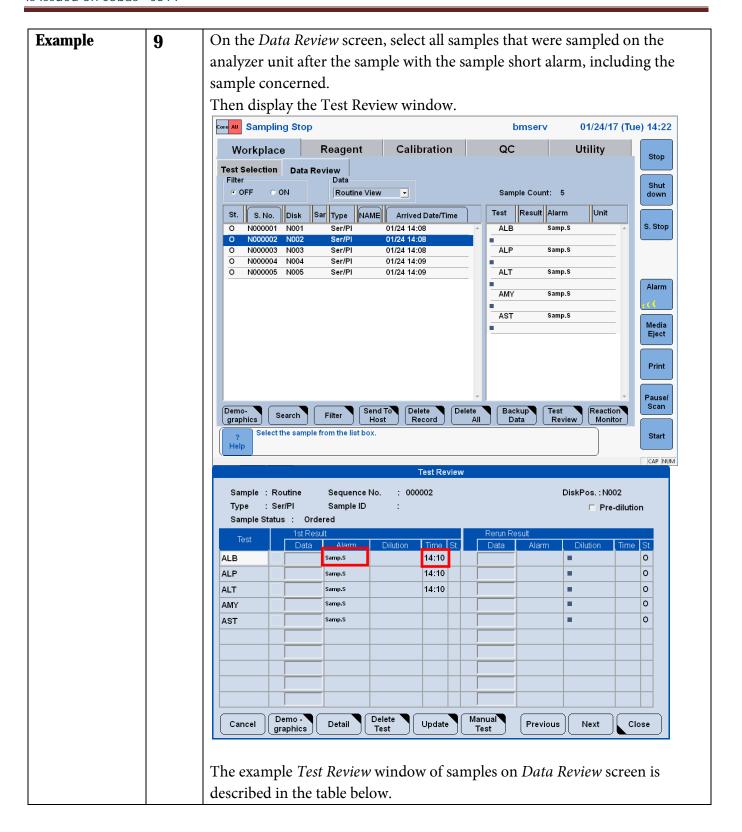








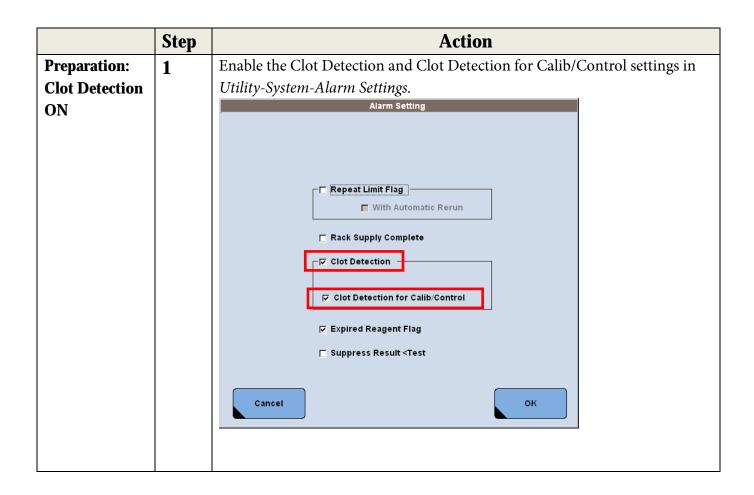
Check sample volume	6	Check a) the sample volume in the sample container, and b) whether there is any substance adhered to the sample probe. No action is required when the sample volume is insufficient, and the sample probe is clean. When there is sufficient sample volume, replace the sample probe and move on to step 7.									
Sampling time in Test Review	7	Check the sampling time for which the alarm was issued in the Test Review screen (Workplace-Data Review-patient sample (in sample list)-Test Review). Sample : Routine									
Verify the results or discard the samples	8	Check the test results which were measured after the sampling time in step 7 on the data review screen. All affected samples have to be verified/ discarded according to the local rules.									
		An example of tests to be verified is described below									



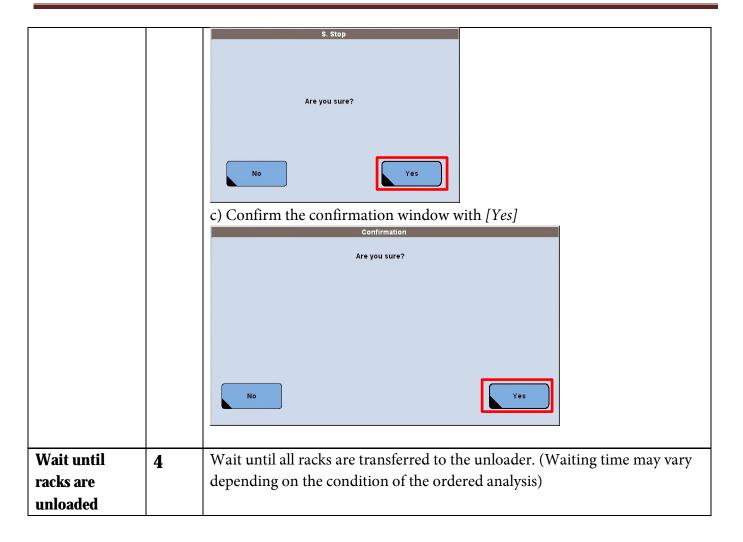
0.11	D: 1 D	T .	1	T	
S.No	Disk Pos.	Test	Alarm	Time	Judgment of measurement result
N000001	N001	ALB	-	14:09	OK
	N001	ALP	-	14:09	OK
	N001	ALT	-	14:09	OK
	N001	AMY	-	14:10	OK
	N001	AST	-	14:10	OK
N000002	N002	ALB	Samp,S	14:10	Target for verification
					(sample for which the sample short alarm was issued)
	N002	ALP	Samp.S	14:10	Target for verification
					(sample for which the sample short alarm was issued)
	N002	ALT	Samp S	14:10	Target for verification
					(sample for which the sample short alarm was issued)
	N002	AMY	Samp.S	-	-
	N002	AST	Samp S	-	-
N000003	N003	ALB	-	14:11	Target for verification
					(sample pipetted after 14:10)
	N003	ALP	-	14:11	Target for verification
					(sample pipetted after 14:10)
	N003	ALT	-	14:11	Target for verification
					(sample pipetted after 14:10)
	N003	AMY	-	14:11	Target for verification
	NIOOO	AOT		44.44	(sample pipetted after 14:10)
	N003	AST	-	14:11	Target for verification
N000004	N004	ALB	-	14:12	(sample pipetted after 14:10) Target for verification
1000004	N004	ALD	-	14.12	(sample pipetted after 14:10)
	N004	ALP	-	14:12	Target for verification
	14004	ALI	-	14.12	(sample pipetted after 14:10)
	N004	ALT	-	14:12	Target for verification
	14004	ALI	-	14.12	(sample pipetted after 14:10)
1	N004	AMY	-	14:12	Target for verification
1					(sample pipetted after 14:10)
1	N004	AST	-	14:12	Target for verification
					(sample pipetted after 14:10)
N000005	N005	ALB	-	14:13	Target for verification
					(sample pipetted after 14:10)
	N005	ALP	-	14:13	Target for verification
					(sample pipetted after 14:10)
1	N005	ALT	-	14:13	Target for verification
1					(sample pipetted after 14:10)
1	N005	AMY	-	14:13	Target for verification
1	11005	1.0-		1	(sample pipetted after 14:10)
1	N005	AST	-	14:13	Target for verification
					(sample pipetted after 14:10)

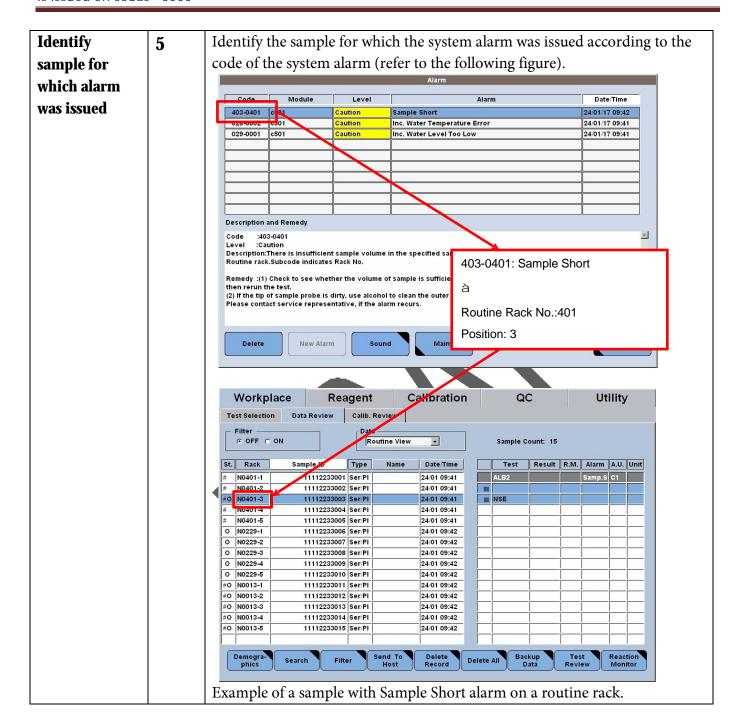
When the system alarm *Sample Short* or *Abnormal Probe Sucking* is issued while there is still sufficient amount of sample volume, it is necessary to replace the sample probe. A verification of the measurement results is required.

When there is no replacement sample probe available, clean the inside and the outside of the sample probe. This is described in the Operator's Manual Version 8.0 and in the manual "Interlock function cobas c 501 with ISE Version 1.2". The inside cleaning maintenance actions of the cobas® 6000 analyzer series can only be performed by specially trained operators. Please refer to the coinciding procedures "Replacing sample, ISE and reagent probes – elimination of blockages" and "Cleaning sample probe, reagent probes, ISE probe and ISE sipper nozzle".

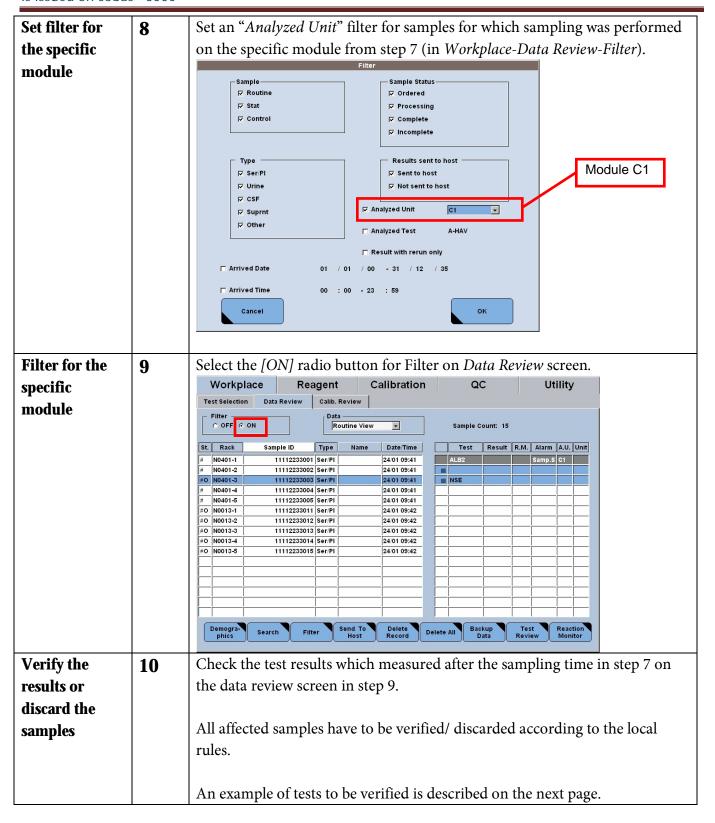


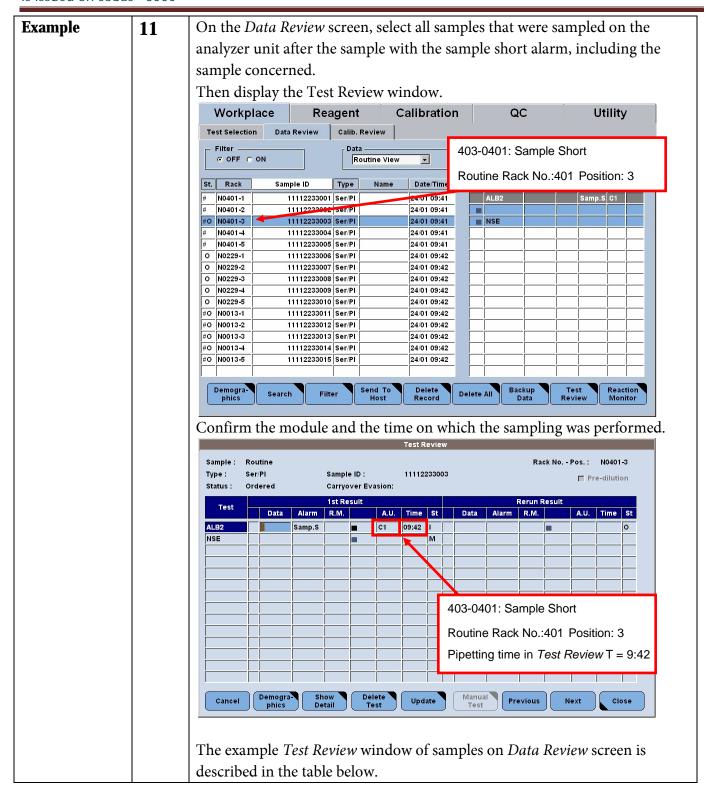
	Step	Action								
Check the	2	The table below shows	the system alarm list o	of Sample Short and	l Sample					
Sample Short	~	Clot.		,						
and Sample		Alarm¶ ¤	Alarm⋅ Code¶ ¤	Alarm- Sub-Code¶	α					
Clot alarm		Sample-Short¤	431 435¤	0001-9999¤	n					
			436·-·440¤	0001-9999¤	n					
			401·-·405¤	0001-9999¤	n					
			406·410¤	0001-9999¤	n					
			411 - · 415¤	0001-9999¤	n					
			416·-·420¤	0001-9999¤	n					
			421·-·425¤	0001-9999¤	_ ი					
			426·-·430¤	0001-9999¤	n					
			441¤	0001¤	n					
		Abnormal-Probe-sucking	g¶ 481485¤	0001·-·9999¤	n					
		¶	486·490¤	0001·-·9999¤	n					
		(The alarm of Sample C		0001·-·9999¤	n					
		is issued as "Abnorm	100 100	0001·-·9999¤	n					
		Probe·sucking")¤	461·-·465¤	0001·-·9999¤	n					
			466·-·470¤	0001·-·9999¤	n					
			471·-·475¤	0001·-·9999¤	n					
			476·-·480¤	0001·-·9999¤	<u>_</u> n					
		Code Module Leve 403-0401 c501 Caution 028-0002 c501 Caution	Sample Short Inc. Water Temperature Error	Date/Time 24/01/17 09:42 24/01/17 09:41	Stop					
		029-0001 c501 Caution	Inc. Water Level Too Low	24/01/17 09:41	Down					
					S. Stop					
					1					
		Description and Remedy			Alarm					
		Code :403-0401 Level :Caution	olume in the specified sample container in the	Pos.3 on a	Alarm					
		Code :403-0401 Level :Caution Description:There is insufficient sample vo Routine rack.Subcode indicates Rack No. Remedy :(1) Check to see whether the vol then rerun the test.	lume of sample is sufficient: If it is not, add voli	Pos.3 on a ume, and	Alarm					
		Code :403-0401 Level :Caution Description:There is insufficient sample vo Routine rack.Subcode indicates Rack No. Remedy :(1) Check to see whether the vol then rerun the test. (2) If the tip of sample probe is dirty, use al	lume of sample is sufficient: If it is not, add voli	Pos.3 on a ume, and						





Check sample	6	Check	Check												
volume		a) the sample volume in the sample container, andb) whether there is any substance adhered to the sample probe.No action is required when the sample volume is insufficient, and the sample													
											the s	ample			
		probe is clean.									•				
		When th	nere is	suffici	ient sa	mple	volu	ıme	e, repla	ace th	ie sa	mple	probe	and	move
		When there is sufficient sample volume, replace the sample probe a on to step 7.													
Module and	7		Check the module and the sampling time for which the alarm was issued in												
sampling time			the Test Review screen (Workplace-Data Review-patient sample (in sample												
in Test Review		list)-Tes			•	1				1			1 `		1
		Test Review													
			Routine Ser/Pl		Cample ID		11112	222002			Rad	k No Po	s.: N040	1-3	
			Ordered		Sample ID : Carryo∨er		11112	233003	•			l	Pre-dilu	tion	
		Test	Data	Alarm	1st Result R.M.	AU	Time	St	Data	Alarm	Rerun R		A.U. Time	St	
		ALB2		Samp.S	•	C1	09:42			71181				o	
		NSE			-			M							
		Concet	Demogra	Sho	ow \	Delete	lle d		Manua	al D	aviaus	N		1	
		Cancel	phics	Det		Test	Upd	ate	Test	Pr	evious	Nex		lose	

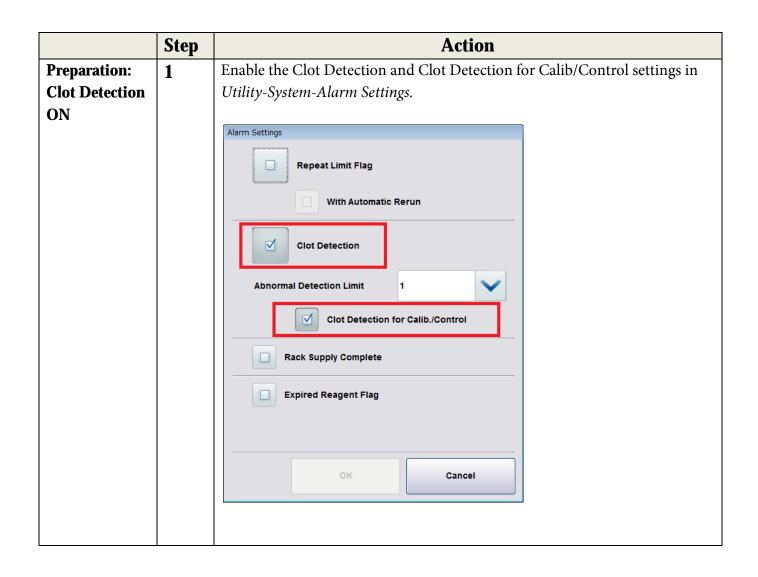




Rack	Test	Alarm	A.U.	Time	St.	Judg	gment of measurement result
N0401-1	ALB2		C1	09:42		OK	
	NSE		E1-2	09:47		OK	
N0401-2	ALB2		C1	09:42		OK	
	NSE		E1-2	09:48		OK	
N0401-3	ALB2	Samp.S	C1	09:42		(San	et for verification nple for which the sample short m was issued) e T=09:42, Module C1
	NSE		T		М		
N0401-4	ALB2		C1	09:42			et for verification etted on module C1 after 9:42)
	NSE		E1-2	09:48		_	et for verification nple pipetted on module c1 after)
N0401-5	ALB2		C1	09:42		Targ	et for verification etted on module C1 after 9:42)
	NSE		E1-2	09:49		_	et for verification nple pipetted on module c1 after)
N0013-1	ALB2				M		No target for verification,
	NSE		E1-2	09:44		OK	
N0013-2	ALB2				M		since not pipetted on c1
	NSE		E1-2	09:44		OK	module
N0013-3	ALB2			<u> </u>	M		modulo
	NSE		E1-2	09:45		OK	
N0013-4	ALB2				M		
	NSE		E1-2	09:46		OK	
N0013-5	ALB2		↓	ļ	M	ļ	
	NSE		E1-2	09:46		OK	
N0229-1	ALB2		C1	09:42			et for verification etted on module C1 after 9:42)
	NSE				М		
N0229-2	ALB2		C1	09:43			et for verification etted on module C1 after 9:42)
	NSE	<u> </u>	†	Ť	M	1	
N0229-3	ALB2		C1	09:43			et for verification etted on module C1 after 9:42)
	NSE				М		
N0229-4	ALB2		C1	09:43			et for verification etted on module C1 after 9:42)
	NSE	<u> </u>	Ť	Ť	M	1	
N0229-5	ALB2		C1	09:43			et for verification etted on module C1 after 9:42)
	NSE	-+			M		<u>′</u>

When the system alarm *Sample Short* or *Abnormal Aspiration* is issued while there is still sufficient amount of sample volume, it is necessary to replace the sample probe. A verification of the measurement results is required.

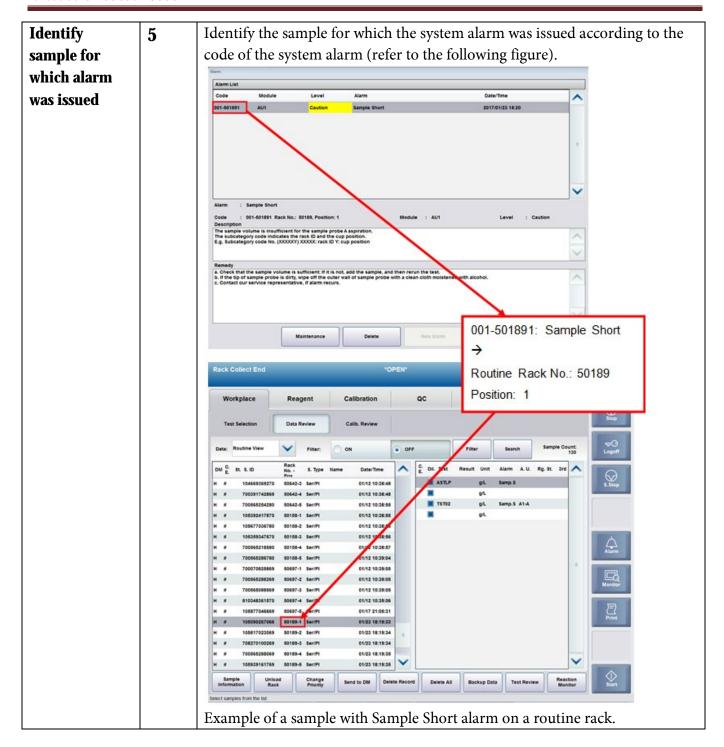
When there is no replacement sample probe available, clean the inside and outside of the sample probe. This is described in the Operator's Manual Version 5.1 and in the manual "cobas 8000 modular analyzer series Interlock Manual c 502 module –Version 2.1 Software version 06-02". The inside cleaning maintenance actions of the cobas c502 module series can only be performed by specially trained operators. Please refer to the coinciding procedures "Eliminating clogging of the sample probe" and "Cleaning all pipetter probes and rinse nozzles".



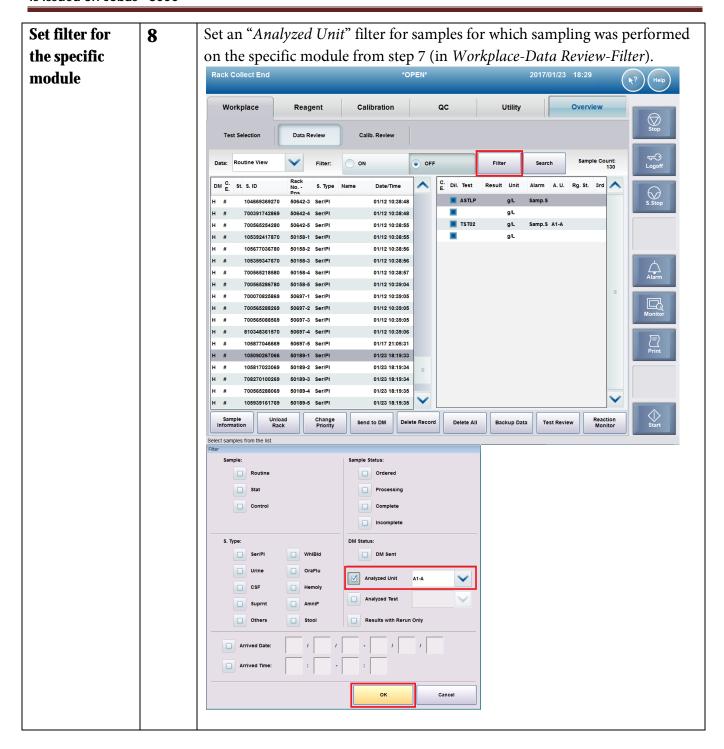
	Step	Action							
Check the	2	The table below shows the system alarm list of Sample Short and Sample							
Sample Short		Clot.							
and Sample		Alarm	Module	Alarm Code	Alarm Sub Category				
Clot alarm		Sample Short	ISE	010	XXXXXY XXXXX: rack No. Y: cup position				
			c701/c702	001 - 002	XXXXXY XXXXX: rack No. Y: cup position 0XXXXX XXXXX: rack No.				
			c502	401 – 440 (The cup position is indicated by alarm code)					
				441	000001				
		Abnormal Aspiration	ISE	007	XXXXXY XXXXX: rack No.				
		(The alarm of Sample Clot is issued as "Abnormal Aspiration")	c701/c702	004 - 005	Y: cup position XXXXXY XXXXX: rack No. Y: cup position				
			c502	451 – 490 (The cup position is indicated by alarm code)	0XXXXX XXXXX: rack No.				
				491	000001				
Sampling Stop	3	a) When the alarm is issued, select the S. Stop button. Rack Collect End *OPEN* 2017/01/23 18:28 R? Help Workplace Reagent Calibration QC Utility Stop							
		Alarm List Code Module Level	Alarm	Date/Time					
		001-501891 AU1 Caution	Sample Short	2017/01/23 18:20	^				
					s.Stop				
		Alarm : Sample Short Code : 001-501891 Rack No.: 50189, Position: 1 Module : AU1 Level : Caution Description							
		The sample volume is insufficient for the sample probe A aspiration. The subcategory code indicates the rack ID and the cup position. E.g. Subcategory code No. (XXXXXXY) XXXXX: rack ID Y: cup position Remedy							
		a. Check that the sample volume is sufficient. If it is not, add the sample, and then rerun the test. b. If the tip of sample probe is dirty, wipe off the outer wall of sample probe with a clean cloth moistened with alcohol. c. Contact our service representative, if alarm recurs.							
		Maintenance	Delete	New Alarm Sound	Close				

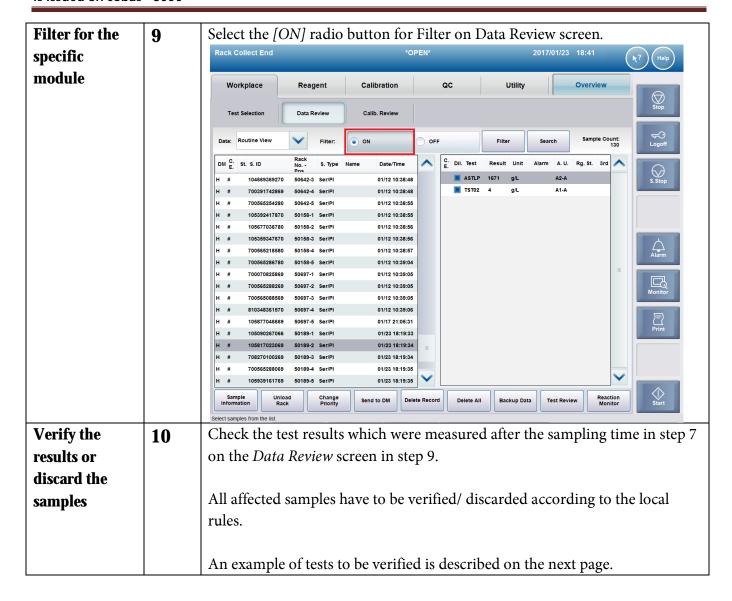
Att FSN-CPS-2017-005 How to proceed whenever the system alarm "Sample Short" or "Abnormal Aspiration" is issued on cobas® 8000

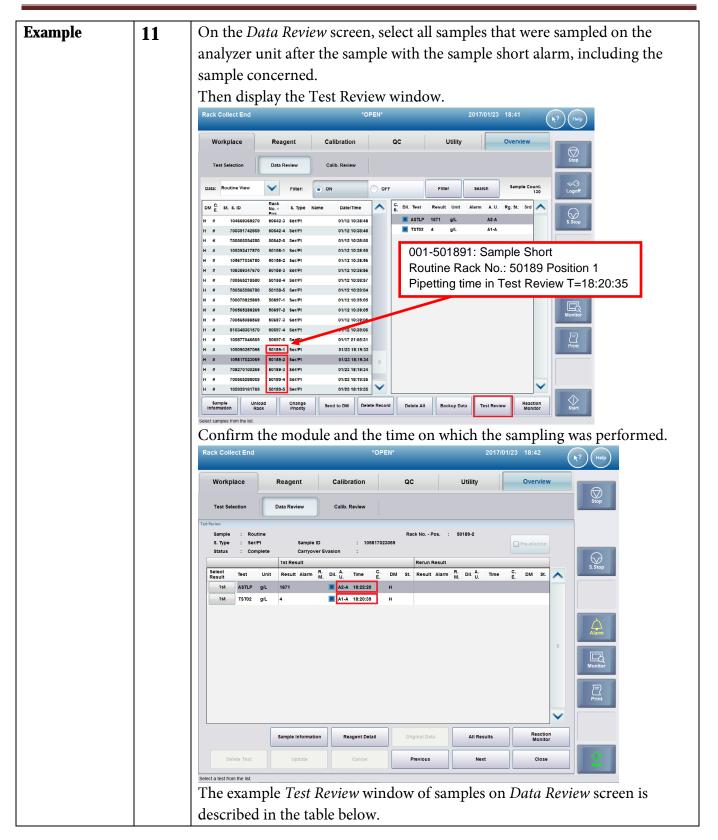
	Step	Action					
	3b	b) When the [S. Stop] window appears, choose [Yes]. S.Stop Are you sure? Yes No					
Wait until racks are unloaded	4	Wait until all of racks are collected in the unloading area. (Waiting time may vary depending on the condition of the ordered analysis)					



Check sample	6	Check						
volume		a) the sample volume in the sample container, and						
		b) whether there is any substance adhered to the sample probe.						
		No action is required when the sample volume is insufficient, and the sample						
		probe is clean.						
		When there is sufficient sample volume, replace the sample probe and move						
		on to step 7.						
Module and	7	1						
	′	Check the module and the sampling time for which the alarm was issued in						
sampling time		the Test Review screen (Workplace-Data Review-patient sample (in sample						
in Test Review		list)-Test Review). Rack Collect End *OPEN* 2017/01/23 18:29						
		Nach Collect Ella 2017/01/25 10:25 (help)						
		Workplace Reagent Calibration QC Utility Overview						
		Test Selection Data Review Calib. Review						
		Test Review						
		Sample : Routine Rack No Pos. : 50189-1 S. Type : Ser/PI Sample ID : 105090287066						
		Status : Complete Carryover Evasion : 1st Result Rerun Result S. S. Stop						
		Select Test Unit Result Alarm M. Dil. U. Time E. DM St. Result Alarm M. Dil. U. Time E. DM St. Result Alarm M. Dil. U.						
		1st ASTLP g/L Samp.S H I O 1st TST02 g/L Samp.S A1-A 18:20:35 H I O						
		Alarm						
		Monitor						
		Print						
		Print						
		Sample Information Reagent Detail Original Data All Results Reaction Monitor						
		Delete Test Update Cancel Previous Next Close						
		Select a test from the list.						







	Rack	Test	Alarm	A.U.	Time	St.	Judgment of measurement result
	50189-1	TST02		A1-A	01/23 18:20:35	Ji.	Target for verification
	50189-1	13102	Samp.S	AT-A	01/23 18:20:35		(Sample for which the sample short
							alarm was issued)
							Time T=18:20:35
		A O.T.I. D.					Module A1-A
	50400.0	ASTLP			04/00 40 00 00	М	
	50189-2	TST02		A1-A	01/23 18:20:39		Target for verification
							(pipetted on module A1-A after
							18:20:35)
		ASTLP		A2-A	01/23 18:22:20		Target for verification
							(sample pipetted on module A1-A after
							time 18:20:35)
	50189-3	TST02		A1-A	01/23 18:20:42		Target for verification
							(pipetted on module A1-A after time
							18:20:35)
		ASTLP		A2-A	01/23 18:22:26		Target for verification
							(sample pipetted on module A1-A after
							time 18:20:35)
	50189-4	TST02		A1-A	01/23 18:20:46		Target for verification
							(pipetted on module A1-A after time
							18:20:35)
		ASTLP		A2-A	01/23 18:22:32		Target for verification
							(sample pipetted on module A1-A after
							time 18:20:35)
	50189-5	TST02		A1-A	01/23 18:20:49		Target for verification
				/	0 1120 10120110		(pipetted on module A1-A after time
							18:20:35)
		ASTLP		A2-A	01/23 18:22:38	 	Target for verification
		/\OTE		/ \2-7\	01/20 10.22.00		(sample pipetted on module A1-A after
							time 18:20:35)
					l		une 10.20.33)