

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2018-25</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>10 SEP 2018</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68527</u>	
Initial Standby Value: <u>24 + 6097</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>6.49</u> After: <u>6.49</u> Notes: <u>No change</u>	K_{15} VALUE: <u>0.999 83</u> Batch #: <u>P160</u> Batch Date: <u>exp: 20 July 2019</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22.6</u> °C Room Temperature: <u>22.6</u> °C Analyst: <u>JW / KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
IAPSO	P160		1.99967			Accepted calibration by no adjustment
IAPS	P160		1.99965	1.99965		Range sample
947	SOGN		1.76131	1.76132		The salinity on bottle matches the salinity calculated for this sample
939	SOGN		1.78336	1.78335		drop from previous sample went in this bottle
937	SOGN		1.78367	1.78367		
941	SOGN		1.78272	1.78272		
955	SOGN		1.71272	1.71271		
953	SOGN		1.72210	1.72210		
949	SOGN		1.74799	1.74798		
943	SOGN		1.78145	1.78145		
951	SOGN		1.73077	1.73072	1.73074	1.73074
811	DIX2		1.90017	1.90019		
Loop 4			1.78185	1.78184		
(Surface Salinity) 820	HS1		0.22311	0.22312		
834	JPN3		1.86276	1.86292	1.86295	1.86299 1.86301
"	"		1.86302	1.86301		deleted first 3 readings.
842	JPN3		1.84886	1.84885		
838	JPN3		1.85553	1.85555		
845	JPC1		1.88782	1.88783		
855	JPC1		1.84737	1.84736		
851	JPC1		1.85472	1.85473		
858	LSK1		1.87993	1.87995		
862	LSK1		1.86364	1.86366		
866	LSK1		1.84589	1.84588		
869	LI01		1.89013	1.89013		Final Standby Value: _____

Notes: 873 LI01 1.85776 1.85777

947
SAL
SOGN
2018-25
Bot 12

939
SAL
SOGN
2018-25
Bot 4

937
SAL
SOGN
2018-25
Bot 2

941
SAL
SOGN
2018-25
Bot 6

955
SAL
SOGN
2018-25
Bot 20

953
SAL
SOGN
2018-25
Bot 18

949
SAL
SOGN
2018-25
Bot 14

943
SAL
SOGN
2018-25
Bot 8

951
SAL
SOGN
2018-25
Bot 16

811
SAL
DIX2
2018-25
Bot 8

LOOP4
2018-25
27. Aug/18

2018-25
HSI
Surface
Salinity
820

834
SAL
JPN3
2018-25
Bot 2

842
SAL
JPN3
2018-25
Bot 10

838
SAL
JPN3
2018-25
Bot 6

845
SAL
JPC1
2018-25
Bot 2

855
SAL
JPC1
2018-25
Bot 12

851
SAL
JPC1
2018-25
Bot 8

858
SAL
LSK1
2018-25
Bot 2

862
SAL
LSK1
2018-25
Bot 6

866
SAL
LSK1
2018-25
Bot 10

869
SAL
LI01
2018-25
Bot 2

873
SAL
LI01
2018-25
Bot 6

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2018-25</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>10 SEP 2018</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68527</u>	
Initial Standby Value: <u>24 + 6097</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>6.49</u> After: <u>6.49</u> Notes: <u>No change.</u>	K ₁₅ VALUE: 0.999 <u>83</u> Batch #: <u>P166</u> Batch Date: <u>exp: 20 July 2018</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>23.4</u> °C Room Temperature: <u>23.4</u> °C Analyst: <u>JW/KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
878	LT01		1.83866	1.83866		
880	MT11		1.96245	1.96244		
890	MT11		1.88478	1.88479		
896	MT11		1.84578	1.84580		
898	MS08		1.98020	1.98020		
912	MS08		1.87165	1.87165		
916	MS08		1.85287	1.85288		
957	SOGN		1.69525	1.69524		
959	SOGN		1.57800	1.57800		
945	SOGN		1.77422	1.77424		
263	HECS7		1.79801	1.79800		
275	HECS8		1.80892	1.80892		
269	HECS8		1.88340	1.88340		
267	HECS8		1.92999	1.92999		
287	Chat 2		1.90307	1.90306		
291	Chat 2		1.87669	1.87668		
297	Chat 2		1.72628	1.72627		
314	Chat 1		1.81070	1.81070		
310	Chat 1		1.86020	1.86021		Screw cap loose; when inverting the bottle, leaking occurred
312	Chat 1		1.84676	1.84676		Screw cap loose
307	Chat 1		1.86909	1.86907		Spilt a little of sample (after mixing)
316	Chat 1		1.75730	1.75726		Screw cap slightly loose.
305	Chat 1		1.88618	1.88622		
302	Chat 1		1.89448	1.89448		
318	Chat 1		1.71549	1.71549		
333	CH19		1.72704	1.72705		Final Standby Value: _____

Notes: _____

878
SAL
LI01
2018-25
Bot 11

880
SAL
MT11
2018-25
Bot 2

890
SAL
MT11
2018-25
Bot 12

896
SAL
MT11
2018-25
Bot 18

898
SAL
MS08
2018-25
Bot 2

912
SAL
MS08
2018-25
Bot 16

916
SAL
MS08
2018-25
Bot 20

957
SAL
SOGN
2018-25
Bot 22

959
SAL
SOGN
2018-25
Bot 24

945
SAL
SOGN
2018-25
Bot 10

263
SAL
HECS7
2018-25
Bot 10

275
SAL
HECS8
2018-25
Bot 10

269
SAL
HECS8
2018-25
Bot 4

267
SAL
HECS8
2018-25
Bot 2

287
SAL
Chat2
2018-25
Bot 2

291
SAL
Chat2
2018-25
Bot 6

297
SAL
Chat2
2018-25
Bot 12

314
SAL
Chat1
2018-25
Bot 14

310
SAL
Chat1
2018-25
Bot 10

312
SAL
Chat1
2018-25
Bot 12

307
SAL
Chat1
2018-25
Bot 7

316
SAL
Chat1
2018-25
Bot 16

305
SAL
Chat1
2018-25
Bot 5

302
SAL
Chat1
2018-25
Bot 2

318
SAL
Chat1
2018-25
Bot 18



333 SAL CH19 2018-25 Bot 8	329 SAL CH19 2018-25 Bot 4	327 SAL CH19 2018-25 Bot 2	366 SAL CH21 2018-25 Bot 12	356 SAL CH21 2018-25 Bot 2	360 SAL CH21 2018-25 Bot 6	439 SAL MP55 2018-25 Bot 6	435 SAL MP55 2018-25 Bot 2	445 SAL MP55 2018-25 Bot 12
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257 SAL HECS7 2018-25 Bot 4	255 SAL HECS7 2018-25 Bot 2	251 SAL HECS4 2018-25 Bot 10	245 SAL HECS4 2018-25 Bot 4	243 SAL HECS4 2018-25 Bot 2	240 SAL MT01 (SRN) 2018-25 Bot 12	234 SAL MT01 (SRN) 2018-25 Bot 6	230 SAL MT01 (SRN) 2018-25 Bot 2	226 SAL MT05 2018-25 Bot 12
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222
SAL
MT05
2018-25
Bot 8

216
SAL
MT05
2018-25
Bot 2

LOOP3
event 73
22-Aug/18

213
SAL
JPS7
2018-25
Bot 10

207
SAL
JPS7
2018-25
Bot 4

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2018-25</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>13 Sept 2018</u>
Autosal Model: <u>84003</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+6097</u>	Ratio After Standardization: <u>24+6097</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>6.49</u> After: <u>6.49</u> Notes: _____	K ₁₅ VALUE: <u>0.99983</u> Batch #: <u>P160</u> Exp Date: <u>20 July 2019</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22.1</u> °C Room Temperature: <u>22.1</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
P160	IAPSO	calibration	1.99966	1.99964	1.99965	Accepted
P160	as a sample		1.99964	1.99964		stated sal: 34.993
DWR			1.98246	1.98247		measured sal: 34.9932
201	JPS1	10	1.84630	1.84629		
205	JPS7	2	1.90570	1.90571		
DWR			1.98246	1.98247		
DWR			1.98245	1.98247		
DWR	197 JPS1	6	1.85683	1.85684		
DWR	193 "	2	1.90790	1.90788		
189	JPS4	14	1.84049	1.84048		
185	"	10	1.85603	1.85602		
177	"	2	1.92556	1.92554		
161	MT 8	2	1.95054	1.95054		
173	"	14	1.82427	1.82425		
169	"	10	1.83906	1.83905		
DWR			1.98248	1.98247		
612	CH5	12	1.58314	1.58315		
629	CH2	16	1.64177	1.64178		
623	"	10	1.87992	1.87989		
615	"	2	1.92301	1.92300		
632	CH1	2	1.92125	1.92129	1.92130	
648	"	18	1.59864	1.59862		
642	"	12	1.86243	1.86243		
665	PORT4	2	1.92092	1.92091		
673	"	10	1.86355	1.86354		Final Standby Value:
679	"	16	1.31348	1.31348		

Notes: sample IDs stn depth cruise ID bat
DWR: 509, 510, 511 P25 2005 m 2017-06 15, 16, 17

201
SAL
JPS1
2018-25
Bot 10

205
SAL
JPS7
2018-25
Bot 2

197
SAL
JPS1
2018-25
Bot 6

193
SAL
JPS1
2018-25
Bot 2

189
SAL
JPS4
2018-25
Bot 14

185
SAL
JPS4
2018-25
Bot 10

177
SAL
JPS4
2018-25
Bot 2

161
SAL
MT8
2018-25
Bot 2

173
SAL
MT8
2018-25
Bot 14

169
SAL
MT8
2018-25
Bot 10

612
SAL
CH5
2018-25
Bot 12

629
SAL
CH2
2018-25
Bot 16

623
SAL
CH2
2018-25
Bot 10

615
SAL
CH2
2018-25
Bot 2

632
SAL
CH1
2018-25
Bot 2

648
SAL
CH1
2018-25
Bot 18

642
SAL
CH1
2018-25
Bot 12

665
SAL
PORT4
2018-25
Bot 2

673
SAL
PORT4
2018-25
Bot 10

679
SAL
PORT4
2018-25
Bot 16

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2018-25</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>13 Sept 2018</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6097</u>	Ratio After Standardization: _____	
Cell Standardization (Daily) Conductivity must be ± 0.00001 compared to Standard 	Standardization Values: Before: _____ After: _____ Notes: _____	Standard Info. K ₁₅ VALUE: 0.999 _____ Batch #: _____ Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22.9</u> °C Room Temperature: <u>22.9</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
744	PEARSE 1	2	1.91942	1.91941		
754	"	12	1.34448	1.34449		
748	"	6	1.86862	1.86861		
758	PEARSE 6	2	1.89568	1.89566		
762	"	6	1.87049	1.87048		
768	"	12	1.63563	1.63562		
772	CH3	2	1.92671	1.92670		
780	"	10	1.87685	1.87680	1.87680	
786	"	16	1.66674	1.66075		
796	DIX 3	8	1.87774	1.87777		
802	"	14	1.76803	1.76800		
790	"	2	1.94423	1.94426		Insert not pushed in.
805	DIX 2	2	1.94275	1.94277		
817	"	14	1.78595	1.78594		
DWR			1.98245	1.98247		
1A	SI	1	1.79859	1.79858		
1B	"	1	1.79851	1.79852		
2A	"	2	1.79765	1.79765		
2B	"	2	1.79760	1.79760		
7	AI	1	1.95330	1.95330		
loop 1	0200	event 8	1.86440	1.86439		
loop 2	1732	" 38	1.87373	1.87372		
117	Scot's 2	15	1.84888	1.84889		
111	"	9	1.88287	1.88288		
103	"	1	1.94877	1.94878		Final Standby Value:
120	C108	2	1.97986	1.97986		

Notes: _____

744 SAL PEARSE1 2018-25 Bot 2	754 SAL PEARSE1 2018-25 Bot 12	748 SAL PEARSE1 2018-25 Bot 6	758 SAL PEARSE6 2018-25 Bot 2	762 SAL PEARSE6 2018-25 Bot 6	768 SAL PEARSE6 2018-25 Bot 12	772 SAL CH3 2018-25 Bot 2	780 SAL CH3 2018-25 Bot 10	786 SAL CH3 2018-25 Bot 16
796 SAL DIX3 2018-25 Bot 8	802 SAL DIX3 2018-25 Bot 14	790 SAL DIX3 2018-25 Bot 2	805 SAL DIX2 2018-25 Bot 2	817 SAL DIX2 2018-25 Bot 14	1 A SAL SI 2018-25 Bot 1	1 B SAL SI 2018-25 Bot 1	2 A SAL SI 2018-25 Bot 2	2 B SAL SI 2018-25 Bot 2
7 SAL A1 2018-25 Bot 1	Loop 1 2018-25 17-Aug-18 02:00	117 SAL Scotts2 2018-25 Bot 15	111 SAL Scotts2 2018-25 Bot 9	103 SAL Scotts2 2018-25 Bot 1	120 SAL CI08 2018-25 Bot 2	19-Aug-18 17:32 evening 2018-25 Loop 2		

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2018-25</u>	Cast/Station Name: <u>Various</u>	Analysis Date (dd mmm yyyy): <u>13/14 Sept. 2018</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24.6097</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.999</u> Batch #: _____ Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>23.3</u> °C Room Temperature: <u>23.3</u> °C Analyst: <u>KS</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
134	C108	16	1.87627	1.87628		
138	"	20	1.84422	1.84422		
134	HAK1	16	1.81270	1.81270		- duplicated sample #
128	"	10	1.85583	1.85583		
130	"	12	1.84748	1.84749		
120	"	2	1.94361	1.94362		
122	"	4	1.91244	1.91243		
124	"	6	1.89456	1.89457		
132	"	14	1.82740	1.82739		
126	"	8	1.87939	1.87943		
136	MS4	2	1.95038	1.95037		
144	"	10	1.88347	1.88348		
148	"	14	1.85226	1.85225		
DWR			1.98249	1.98248		did not trust.
384	CH25	10	1.71233	1.71234		- Sept 14, 2018
378	"	4	1.87154	1.87154		DWR 1.98243 1.98242
376	"	2	1.89217	1.89216		DWR 1.98245 + 82
395	PRHR74	2	1.85263	1.85262		DWR 1.98245 1.98245
407	"	14	1.74372	1.74370		
417	CH27	2	1.84950	1.84951	1.84950	Deleted 1st reading
420	"	5	1.84230	1.84232		
423	"	8	1.74757	1.74756		
482	CH8	2	1.91464	1.91463		
486	"	6	1.87491	1.87494		Cap loose Insert not
492	"	12	1.65440	1.65438		Final Standby Value: "in all the
515	CH11	2	1.91488	1.91489		way

Notes:

DWR → 1.98245 1.98245

134 SAL CI08 2018-25 Bot 16	138 SAL CI08 2018-25 Bot 20	134 SAL HAKI 2018-25 Bot 16	128 SAL HAKI 2018-25 Bot 10	130 SAL HAKI 2018-25 Bot 12	120 SAL HAKI 2018-25 Bot 2	122 SAL HAKI 2018-25 Bot 4	124 SAL HAKI 2018-25 Bot 6	132 SAL HAKI 2018-25 Bot 14	126 SAL HAKI 2018-25 Bot 8
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136 SAL MS4 2018-25 Bot 2	144 SAL MS4 2018-25 Bot 10	148 SAL MS4 2018-25 Bot 14	384 SAL CH25 2018-25 Bot 10	378 SAL CH25 2018-25 Bot 4	376 SAL CH25 2018-25 Bot 2	395 SAL PRHR74 2018-25 Bot 2	407 SAL PRHR74 2018-25 Bot 14	417 SAL CH27 2018-25 Bot 2	420 SAL CH27 2018-25 Bot 5
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423 SAL CH27 2018-25 Bot 8	482 SAL CH8 2018-25 Bot 2	486 SAL CH8 2018-25 Bot 6	492 SAL CH8 2018-25 Bot 12	515 SAL CH11 2018-25 Bot 2
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Cruise ID: <u>2018-25</u>		Cast/Station Name: <u>Various</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>		<u>14 Sept 2018</u>	
Initial Standby Value: <u>24 + 5097</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: <u>24</u> °C		
Conductivity must be ± 0.00001	Before: _____	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: <u>22.0</u> °C		
compared to Standard	After: _____	Batch #: _____	Room Temperature: <u>22.0</u> °C		
	Notes: _____	Batch Date: _____	Analyst: <u>KS</u>		

[illegible]

Notes: _____

517
SAL
CH11
2018-25
Bot 4

523
SAL
CH11
2018-25
Bot 10

536
SAL
CH12
2018-25
Bot 12

530
SAL
CH12
2018-25
Bot 6

526
SAL
CH12
2018-25
Bot 2

546
SAL
CH16
2018-25
Bot 2

552
SAL
CH16
2018-25
Bot 8

564
SAL
CH14
2018-25
Bot 2

568
SAL
CH14
2018-25
Bot 6

574
SAL
CH14
2018-25
Bot 12

602
SAL
CH5
2018-25
Bot 2

606
SAL
CH5
2018-25
Bot 6