

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result
1	Standard	NPOC	0-20 NPOC_2201	0-20 NPOC_220126B	0-20 NPOC_220126B.2	1.000	

	Notes	Status	Date / Time	Vial
1		Completed	1/26/2022 5:33:05 PM	1, 2, 3, 4, 5,

Date of Creation 5:33:05 PM 1/26/2022
 User DMB
 System TOC4-C

Cal. Curve

Sample Name: 0-20 NPOC_220126B
 Sample ID: 0-20 NPOC_220126B
 Object ID: 0A-901000-10101000-13488DE2104A-0000
 Cal. Curve: 0-20 NPOC_220126B. cal
 Status Completed
 Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.248	1250uL	1	*****		1/26/2022 3:47:36 PM
2	4.758	1250uL	1	*****		1/26/2022 3:51:50 PM

Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 4.503
 SD Area 0.3606
 CV Area 8.01%
 Vial 1
 WetChem Oxid. 1.5mL

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	57.01	1250uL	1	*****		1/26/2022 4:02:25 PM
2	56.70	1250uL	1	*****		1/26/2022 4:06:49 PM

Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 56.86
 SD Area 0.2192
 CV Area 0.39%
 Vial 2
 WetChem Oxid. 1.5mL

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	106.9	1250uL	1	*****		1/26/2022 4:17:29 PM
2	107.4	1250uL	1	*****		1/26/2022 4:21:36 PM

Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 107.2
 SD Area 0.3536
 CV Area 0.33%
 Vial 3
 WetChem Oxid. 1.5mL

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	511.6	1250uL	1	*****		1/26/2022 4:32:48 PM
2	512.8	1250uL	1	*****		1/26/2022 4:36:58 PM

Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 512.2
 SD Area 0.8485
 CV Area 0.17%
 Vial 4
 WetChem Oxid. 1.5mL

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1047	1250uL	1	*****		1/26/2022 4:49:06 PM
2	1033	1250uL	1	*****		1/26/2022 4:53:37 PM

Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 1040
 SD Area 9.899
 CV Area 0.95%
 Vial 5
 WetChem Oxid. 1.5mL

Conc: 15.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1522	1250uL	1	*****	E	1/26/2022 5:04:56 PM
2	1581	1250uL	1	*****		1/26/2022 5:10:44 PM
3	1578	1250uL	1	*****		1/26/2022 5:16:11 PM

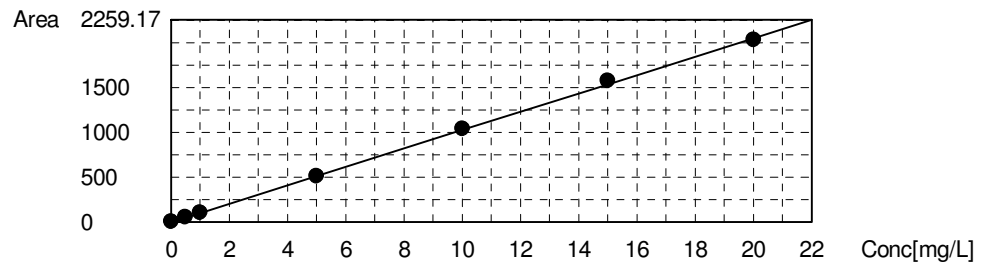
Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 1580
 SD Area 2.121
 CV Area 0.13%
 Vial 6
 WetChem Oxid. 1.5mL

Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2044	1250uL	1	*****		1/26/2022 5:28:13 PM
2	2026	1250uL	1	*****		1/26/2022 5:33:05 PM

Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 2035
 SD Area 12.73
 CV Area 0.63%
 Vial 7
 WetChem Oxid. 1.5mL

Slope: 102.7
 Intercept 0.000
 r² 0.9995
 r 0.9998
 Zero Shift Yes



Energy Laboratories, Inc.

ANALYTICAL RUN Summary

28-Jan-22

Run ID TOC4-C_220127A

Run Start Date: 1/27/2022 Analyst: Nils T. Schenck Ical: Column ID: Comments: Ready for David Brunner	Instrument ID	Description
	PIP-113	500 uL pipette
	PIP-114	1000 uL Pipette
	PIP-119	10-100 uL adjustable pipette
	PIP-122	5 mL Pipette
	PIP-128	
	PIP-133	10 mL Dispenser/H2O for TOC/DOC-Wet Lab
	TOC4-C	Total organic carbon analyzer

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
Na Persulfate 12% 211108	Sodium Persulfate 12%						11/8/2022
NTS AQ DOC A5310C DOC 09	NTS AQ DOC A5310C DOC 092221						8/22/2022
NTS AQ TOC A5310C DOC 09	NTS AQ TOC A5310C DOC 092321						8/23/2022
Phosphoric Acid 201124	Phosphoric Acid 20%						1/8/2023
Phosphoric Water 211108	Phosphoric Water						1/8/2023
TOC4_ICAL_220127	TOC4 Calibration					ICAL	9/28/2022

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423208	LCS	C-TOC-W	LCS		1/27/2022 9:45:2	1	R279097			0	0					

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.961	4.961		5	0	0	0.17	0.5	20	99%	91	111	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.961	4.961		5	0	0	0.17	0.5	20	99%	91	111	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423209	MBLK	C-TOC-W	MBLK		1/27/2022 9:59:5	1	R279097			0	0					

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.02244	0		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.02244	0		0	0	0	0.17	0.5	20	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423210	CCV	C-TOC-W	CCV		1/27/2022 10:19:	1	R279097			0	0					

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423210	CCV	C-TOC-W	CCV		1/27/2022 10:19:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.837	4.837		5	0	0	0.17	0.5	20	97%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.837	4.837		5	0	0	0.17	0.5	20	97%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423211	0 PPM	C-TOC-W	ICAL1		1/27/2022 10:33:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.01817	0.01817		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.01817	0.01817		0	0	0	0.17	0.5	20	0%	0	0	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423212	0.5 PPM	C-TOC-W	ICAL2		1/27/2022 10:52:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.5732	0.5732		0.5	0	0	0.17	0.5	20	115%	80	120	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.5732	0.5732		0.5	0	0	0.17	0.5	20	115%	80	120	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423213	1 PPM	C-TOC-W	ICAL3		1/27/2022 11:07:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	1.09	1.09		1	0	0	0.17	0.5	20	109%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	1.09	1.09		1	0	0	0.17	0.5	20	109%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423214	5 PPM	C-TOC-W	ICAL4		1/27/2022 11:22:	1	R279097			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	5.019	5.019		5	0	0	0.17	0.5	20	100%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	5.019	5.019		5	0	0	0.17	0.5	20	100%	90	110	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423215	10 PPM	C-TOC-W	ICAL5		1/27/2022 11:38:	1	R279097		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	10.04	10.04		10	0	0	0.17	0.5	20	100%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	10.04	10.04		10	0	0	0.17	0.5	20	100%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423216	15 PPM	C-TOC-W	ICAL6		1/27/2022 11:55:	1	R279097		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	15.28	15.28		15	0	0	0.17	0.5	20	102%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	15.28	15.28		15	0	0	0.17	0.5	20	102%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423217	20 PPM	C-TOC-W	ICAL7		1/27/2022 12:12:	1	R279097		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	20.31	20.31		20	0	0	0.17	0.5	20	102%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	20.31	20.31		20	0	0	0.17	0.5	20	102%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423218	CCV	C-TOC-W	CCV		1/27/2022 12:30:	1	R279097		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.931	4.931		5	0	0	0.17	0.5	20	99%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.931	4.931		5	0	0	0.17	0.5	20	99%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8423219	CCB	C-TOC-W	CCB		1/27/2022 12:44:	1	R279097		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.02391	0.02391		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.02391	0.02391		0	0	0	0.17	0.5	20	0%	0	0	0%	

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result
1	Unknown	NPOC	C-TOC-W	LCS	NPOC Method.met	1.000	NPOC:4.961m
2	Unknown	NPOC	C-TOC-W	MBLK	NPOC Method.met	1.000	NPOC:0.0224
3	Unknown	NPOC	C-TOC-W	CCV	NPOC Method.met	1.000	NPOC:4.837m
4	Unknown	NPOC	C-TOC-W	0 PPM	NPOC Method.met	1.000	NPOC:0.0181
5	Unknown	NPOC	C-TOC-W	0.5 PPM	NPOC Method.met	1.000	NPOC:0.5732
6	Unknown	NPOC	C-TOC-W	1 PPM	NPOC Method.met	1.000	NPOC:1.090m
7	Unknown	NPOC	C-TOC-W	5 PPM	NPOC Method.met	1.000	NPOC:5.019m
8	Unknown	NPOC	C-TOC-W	10 PPM	NPOC Method.met	1.000	NPOC:10.04m
9	Unknown	NPOC	C-TOC-W	15 PPM	NPOC Method.met	1.000	NPOC:15.28m
10	Unknown	NPOC	C-TOC-W	20 PPM	NPOC Method.met	1.000	NPOC:20.31m
11	Unknown	NPOC	C-TOC-W	CCV	NPOC Method.met	1.000	NPOC:4.931m
12	Unknown	NPOC	C-TOC-W	CCB	NPOC Method.met	1.000	NPOC:0.0239

	Notes	Status	Date / Time	Vial
1		Completed	1/27/2022 9:49:48 AM	1
2		Completed	1/27/2022 10:08:27 AM	2
3		Completed	1/27/2022 10:23:27 AM	3
4		Completed	1/27/2022 10:42:04 AM	4
5		Completed	1/27/2022 10:56:58 AM	5
6		Completed	1/27/2022 11:11:56 AM	6
7		Completed	1/27/2022 11:27:20 AM	7
8		Completed	1/27/2022 11:42:58 AM	8
9		Completed	1/27/2022 12:00:31 PM	9
10		Completed	1/27/2022 12:18:50 PM	10
11		Completed	1/27/2022 12:34:16 PM	11
12		Completed	1/27/2022 12:52:55 PM	12

Instr.Information

System TOC4-C
Instrument Options TOC/ASI/

Sample

Sample Name: C-TOC-W
Sample ID: LCS
Origin: NPOC Method.met
Status: Completed
Chk. Result

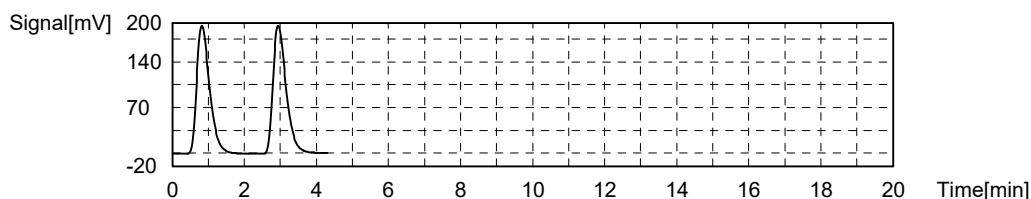
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.961mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	505.6	4.924mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 9:45:29 AM
2	513.2	4.998mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 9:49:48 AM

Mean Area 509.4
Mean Conc. 4.961mg/L



Sample

Sample Name: C-TOC-W
Sample ID: MBLK
Origin: NPOC Method.met
Status: Completed
Chk. Result

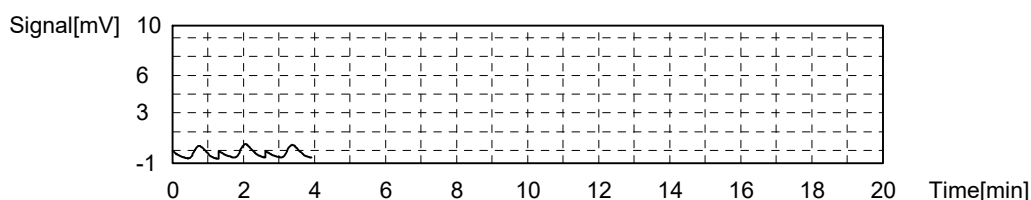
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02244mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.312	0.02251mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 9:59:57 AM
2	2.462	0.02398mg/L	1250uL	1	E	0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:04:13 AM
3	2.296	0.02236mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:08:27 AM

Mean Area 2.304
Mean Conc. 0.02244mg/L



Sample

Sample Name: C-TOC-W
 Sample ID: CCV
 Origin: NPOC Method.met
 Status: Completed
 Chk. Result

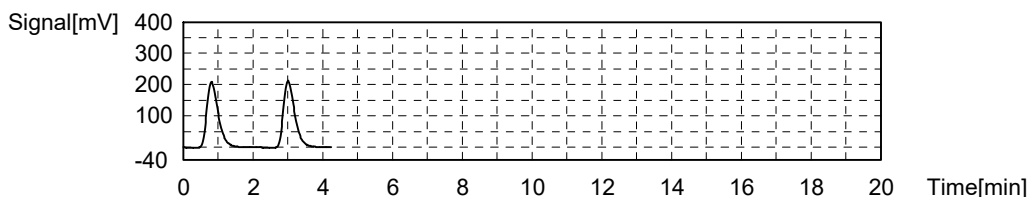
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.837mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	496.2	4.832mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:19:17 AM
2	497.3	4.843mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:23:27 AM

Mean Area 496.8
 Mean Conc. 4.837mg/L



Sample

Sample Name: C-TOC-W
 Sample ID: 0 PPM
 Origin: NPOC Method.met
 Status: Completed
 Chk. Result

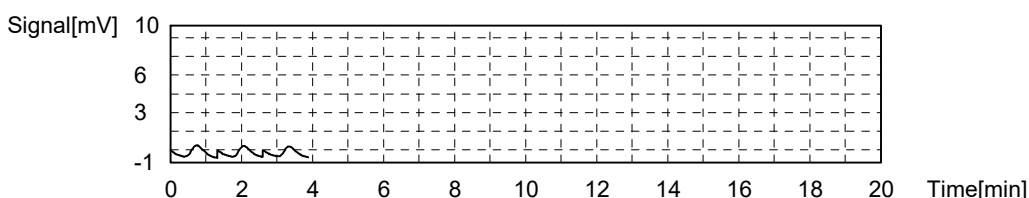
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01817mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.180	0.02123mg/L	1250uL	1	E	0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:33:37 AM
2	1.911	0.01861mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:37:50 AM
3	1.820	0.01772mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:42:04 AM

Mean Area 1.865
 Mean Conc. 0.01817mg/L



Sample

Sample Name: C-TOC-W
 Sample ID: 0.5 PPM
 Origin: NPOC Method.met
 Status: Completed
 Chk. Result

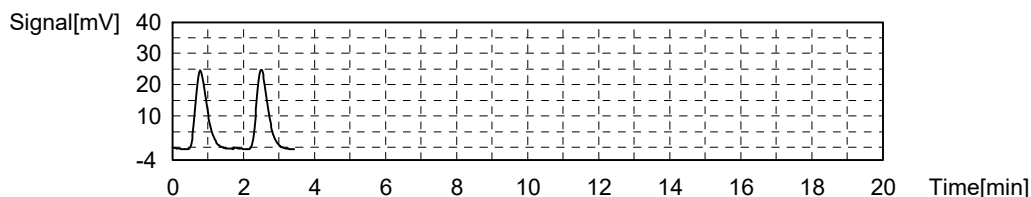
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5732mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.21	0.5766mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:52:25 AM
2	58.51	0.5698mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 10:56:58 AM

Mean Area 58.86
Mean Conc. 0.5732mg/L



Sample

Sample Name: C-TOC-W
Sample ID: 1 PPM
Origin: NPOC Method.met
Status: Completed
Chk. Result

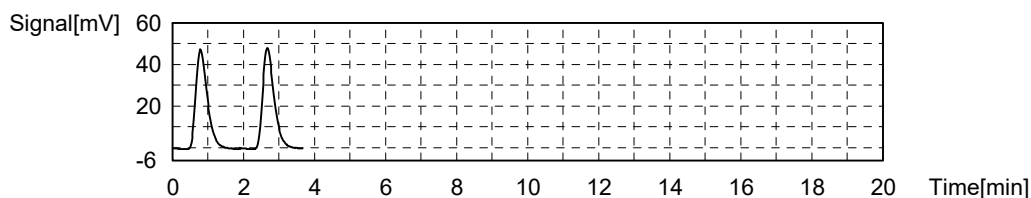
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.090mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	112.2	1.093mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 11:07:42 AM
2	111.6	1.087mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	1/27/2022 11:11:56 AM

Mean Area 111.9
Mean Conc. 1.090mg/L



Sample

Sample Name: C-TOC-W
Sample ID: 5 PPM
Origin: NPOC Method.met
Status: Completed
Chk. Result

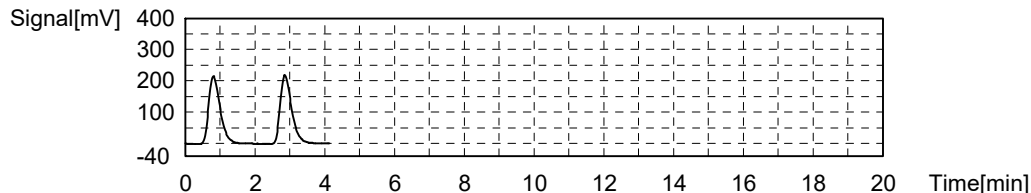
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.019mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	512.6	4.992mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:22:50 AM
2	518.3	5.047mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:27:20 AM

Mean Area 515.5
Mean Conc. 5.019mg/L



Sample

Sample Name: C-TOC-W
Sample ID: 10 PPM
Origin: NPOC Method.met
Status: Completed
Chk. Result

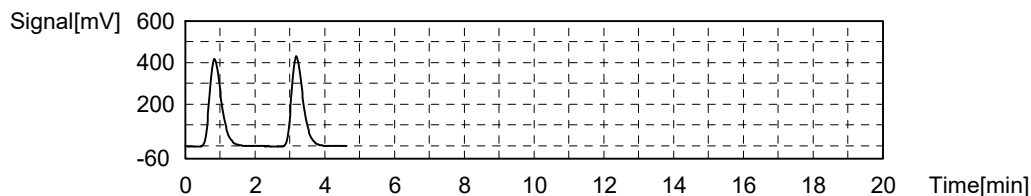
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1031	10.04mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:38:32 AM
2	1032	10.05mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:42:58 AM

Mean Area 1032
Mean Conc. 10.04mg/L



Sample

Sample Name: C-TOC-W
Sample ID: 15 PPM
Origin: NPOC Method.met
Status: Completed
Chk. Result

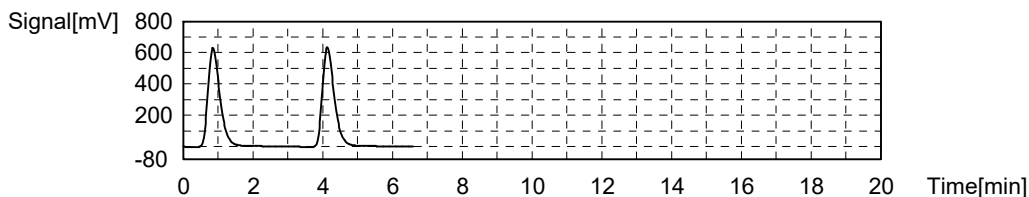
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.28mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1568	15.27mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 11:55:06 AM
2	1570	15.29mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:00:31 PM

Mean Area 1569
Mean Conc. 15.28mg/L



Sample

Sample Name: C-TOC-W
Sample ID: 20 PPM
Origin: NPOC Method.met
Status: Completed
Chk. Result

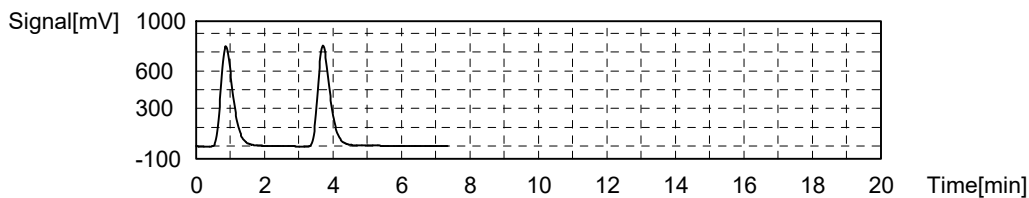
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.31mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2058	20.04mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:12:12 PM
2	2114	20.59mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:18:50 PM

Mean Area 2086
Mean Conc. 20.31mg/L



Sample

Sample Name: C-TOC-W
Sample ID: CCV
Origin: NPOC Method.met
Status: Completed
Chk. Result

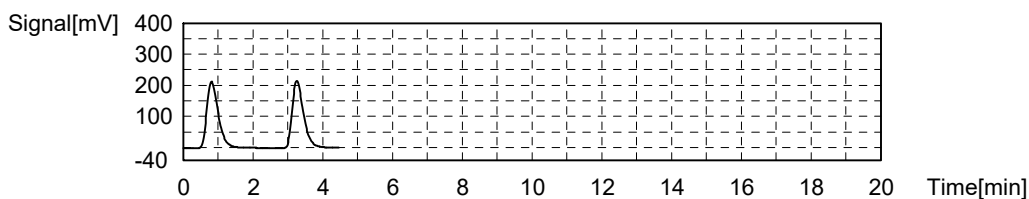
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.931mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	510.7	4.973mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:30:08 PM
2	502.1	4.889mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:34:16 PM

Mean Area 506.4
Mean Conc. 4.931mg/L



Sample

Sample Name: C-TOC-W
Sample ID: CCB
Origin: NPOC Method.met
Status: Completed
Chk. Result

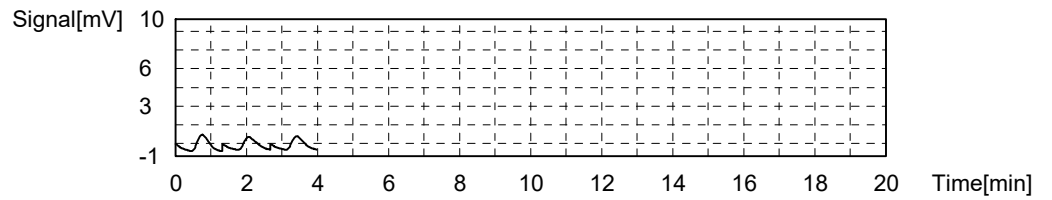
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02391mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.914	0.02838mg/L	1250uL	1	E	0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:44:26 PM
2	2.475	0.02410mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:48:43 PM
3	2.436	0.02372mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	1/27/2022 12:52:55 PM

Mean Area 2.455
Mean Conc. 0.02391mg/L



Energy Laboratories, Inc.

ANALYTICAL RUN Summary

02-Feb-22

Run ID TOC4-C_220201A

Run Start Date: 2/1/2022
 Analyst: Nils T. Schenck
 Ical:
 Column ID:
 Comments: Ready for David Brunner

Instrument ID	Description
PIP-128	
PIP-133	10 mL Dispenser/H2O for TOC/DOC-Wet Lab
TOC4-C	Total organic carbon analyzer

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
Na Persulfate 12% 211108	Sodium Persulfate 12%						11/8/2022
NTS AQ DOC A5310C DOC 09	NTS AQ DOC A5310C DOC 092221						8/22/2022
NTS AQ TOC A5310C DOC 09	NTS AQ TOC A5310C DOC 092321						8/23/2022
Phosphoric Acid 201124	Phosphoric Acid 20%						1/8/2023
Phosphoric Water 211108	Phosphoric Water						1/8/2023
TOC4_ICAL_220127	TOC4 Calibration					ICAL	9/28/2022

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist				
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8426552	LCS	C-TOC-9060-W	LCS		2/1/2022 1:14:00	1	R279254			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.7645	4.7645		5	0	0	0.17	0.5	20	95%	91	111	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.7645	4.7645		5	0	0	0.17	0.5	20	95%	91	111	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist				
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8426553	MBLK	C-TOC-9060-W	MBLK		2/1/2022 1:55:00	1	R279254			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.07615	0		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.07615	0		0	0	0	0.17	0.5	20	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist				
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8426554	CCV	C-TOC-9060-W	CCV		2/1/2022 2:34:00	1	R279254			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8426554	CCV	C-TOC-9060-W	CCV		2/1/2022 2:34:00	1	R279254			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.71725	4.71725		5	0	0	0.17	0.5	20	94%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.71725	4.71725		5	0	0	0.17	0.5	20	94%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8426555	C22010905-001	C-TOC-9060-W	SAMP		2/1/2022 3:15:00	1	R279254			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	2.249	2.249		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	2.249	2.249		0	0	0	0.17	0.5	20	0%	0	0	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8426556	C22010905-001	C-TOC-9060-W	MS		2/1/2022 3:58:00	1.005	R279254			8E+06	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	7.132	7.16766		5	2.249	0	0.17085	0.5025	20	98%	91	111	0%	
Nonpurgeable Organic Carbon	X	mg/L	7.132	7.16766		5	2.249	0	0.17085	0.5025	20	98%	91	111	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8426557	C22010905-001	C-TOC-9060-W	MSD		2/1/2022 4:47:00	1.005	R279254			8E+06	8E+06					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	7.0835	7.1189175		5	2.249	7.16766	0.17085	0.5025	20	97%	91	111	1%	
Nonpurgeable Organic Carbon	X	mg/L	7.0835	7.1189175		5	2.249	7.16766	0.17085	0.5025	20	97%	91	111	1%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8426558	C22010481-009	C-TOC-9060-W	SAMP		2/1/2022 5:30:00	1	R279254			0	0					
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	1.8535	1.8535		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	1.8535	1.8535		0	0	0	0.17	0.5	20	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8426559	C22010731-009	C-TOC-9060-W	SAMP		2/1/2022 6:10:00	8	R279254		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	2.6021875	20.8175		0	0	0	1.36	4	20	0%	0	0	0%	D
Nonpurgeable Organic Carbon	X	mg/L	2.6021875	20.8175		0	0	0	1.36	4	20	0%	0	0	0%	D
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8426560	CCV	C-TOC-9060-W	CCV		2/1/2022 6:50:00	1	R279254		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	4.7105	4.7105		5	0	0	0.17	0.5	20	94%	90	110	0%	
Nonpurgeable Organic Carbon	X	mg/L	4.7105	4.7105		5	0	0	0.17	0.5	20	94%	90	110	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
8426561	CCB	C-TOC-9060-W	CCB		2/1/2022 7:30:00	1	R279254		0	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Organic Carbon, Total (TOC)	C	mg/L	0.023655	0.023655		0	0	0	0.17	0.5	20	0%	0	0	0%	
Nonpurgeable Organic Carbon	X	mg/L	0.023655	0.023655		0	0	0	0.17	0.5	20	0%	0	0	0%	

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result
1	Unknown	NPOC	C-TOC-9060-W	LCS	C-TOC-9060-W.met	1.000	NPOC:4.744m
2	Unknown	NPOC	C-TOC-9060-W	LCS	C-TOC-9060-W.met	1.000	NPOC:4.733m
3	Unknown	NPOC	C-TOC-9060-W	LCS	C-TOC-9060-W.met	1.000	NPOC:4.808m
4	Unknown	NPOC	C-TOC-9060-W	LCS	C-TOC-9060-W.met	1.000	NPOC:4.773m
5	Unknown	NPOC	C-TOC-9060-W	MBLK	C-TOC-9060-W.met	1.000	NPOC:0.0881
6	Unknown	NPOC	C-TOC-9060-W	MBLK	C-TOC-9060-W.met	1.000	NPOC:0.0776
7	Unknown	NPOC	C-TOC-9060-W	MBLK	C-TOC-9060-W.met	1.000	NPOC:0.0680
8	Unknown	NPOC	C-TOC-9060-W	MBLK	C-TOC-9060-W.met	1.000	NPOC:0.0707
9	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.711m
10	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.729m
11	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.738m
12	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.691m
13	Unknown	NPOC	C-TOC-9060-W	C22010905-001E	C-TOC-9060-W.met	1.000	NPOC:1.879m
14	Unknown	NPOC	C-TOC-9060-W	C22010905-001E	C-TOC-9060-W.met	1.000	NPOC:2.267m
15	Unknown	NPOC	C-TOC-9060-W	C22010905-001E	C-TOC-9060-W.met	1.000	NPOC:2.558m
16	Unknown	NPOC	C-TOC-9060-W	C22010905-001E	C-TOC-9060-W.met	1.000	NPOC:2.292m
17	Unknown	NPOC	C-TOC-9060-W	C22010905-001EMS	C-TOC-9060-W.met	1.000	NPOC:7.096m
18	Unknown	NPOC	C-TOC-9060-W	C22010905-001EMS	C-TOC-9060-W.met	1.000	NPOC:7.108m
19	Unknown	NPOC	C-TOC-9060-W	C22010905-001EMS	C-TOC-9060-W.met	1.000	NPOC:7.411m
20	Unknown	NPOC	C-TOC-9060-W	C22010905-001EMS	C-TOC-9060-W.met	1.000	NPOC:6.913m
21	Unknown	NPOC	C-TOC-9060-W	C22010905-001EMSD	C-TOC-9060-W.met	1.000	NPOC:7.044m
22	Unknown	NPOC	C-TOC-9060-W	C22010905-001EMSD	C-TOC-9060-W.met	1.000	NPOC:7.273m
23	Unknown	NPOC	C-TOC-9060-W	C22010905-001EMSD	C-TOC-9060-W.met	1.000	NPOC:7.065m
24	Unknown	NPOC	C-TOC-9060-W	C22010905-001EMSD	C-TOC-9060-W.met	1.000	NPOC:6.952m
25	Unknown	NPOC	C-TOC-9060-W	C22010481-009A	C-TOC-9060-W.met	1.000	NPOC:1.908m
26	Unknown	NPOC	C-TOC-9060-W	C22010481-009A	C-TOC-9060-W.met	1.000	NPOC:1.844m
27	Unknown	NPOC	C-TOC-9060-W	C22010481-009A	C-TOC-9060-W.met	1.000	NPOC:1.831m
28	Unknown	NPOC	C-TOC-9060-W	C22010481-009A	C-TOC-9060-W.met	1.000	NPOC:1.831m
29	Unknown	NPOC	C-TOC-9060-W	C22010731-009A	C-TOC-9060-W.met	8.000	NPOC:21.24m
30	Unknown	NPOC	C-TOC-9060-W	C22010731-009A	C-TOC-9060-W.met	8.000	NPOC:20.89m
31	Unknown	NPOC	C-TOC-9060-W	C22010731-009A	C-TOC-9060-W.met	8.000	NPOC:20.64m
32	Unknown	NPOC	C-TOC-9060-W	C22010731-009A	C-TOC-9060-W.met	8.000	NPOC:20.50m
33	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.707m
34	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.718m
35	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.729m
36	Unknown	NPOC	C-TOC-9060-W	CCV	C-TOC-9060-W.met	1.000	NPOC:4.688m
37	Unknown	NPOC	C-TOC-9060-W	CCB	C-TOC-9060-W.met	1.000	NPOC:0.0275
38	Unknown	NPOC	C-TOC-9060-W	CCB	C-TOC-9060-W.met	1.000	NPOC:0.0226
39	Unknown	NPOC	C-TOC-9060-W	CCB	C-TOC-9060-W.met	1.000	NPOC:0.0239
40	Unknown	NPOC	C-TOC-9060-W	CCB	C-TOC-9060-W.met	1.000	NPOC:0.0205

	Notes	Status	Date / Time	Vial
1		Completed	2/1/2022 1:14:48 PM	1
2		Completed	2/1/2022 1:24:17 PM	1
3		Completed	2/1/2022 1:35:16 PM	2
4		Completed	2/1/2022 1:44:58 PM	2
5		Completed	2/1/2022 1:55:19 PM	3
6		Completed	2/1/2022 2:04:09 PM	3
7		Completed	2/1/2022 2:14:25 PM	4
8		Completed	2/1/2022 2:23:15 PM	4
9		Completed	2/1/2022 2:34:09 PM	5
10		Completed	2/1/2022 2:43:36 PM	5
11		Completed	2/1/2022 2:54:29 PM	6
12		Completed	2/1/2022 3:03:52 PM	6
13		Completed	2/1/2022 3:15:02 PM	7
14		Completed	2/1/2022 3:25:03 PM	7
15		Completed	2/1/2022 3:36:41 PM	8
16		Completed	2/1/2022 3:46:50 PM	8
17		Completed	2/1/2022 3:58:28 PM	9
18		Completed	2/1/2022 4:08:32 PM	9
19		Completed	2/1/2022 4:25:23 PM	10
20		Completed	2/1/2022 4:35:36 PM	10
21		Completed	2/1/2022 4:47:14 PM	11
22		Completed	2/1/2022 4:57:31 PM	11
23		Completed	2/1/2022 5:09:12 PM	12
24		Completed	2/1/2022 5:19:20 PM	12
25		Completed	2/1/2022 5:30:08 PM	17
26		Completed	2/1/2022 5:39:22 PM	17
27		Completed	2/1/2022 5:50:02 PM	18
28		Completed	2/1/2022 5:59:12 PM	18
29		Completed	2/1/2022 6:10:07 PM	19
30		Completed	2/1/2022 6:19:23 PM	19
31		Completed	2/1/2022 6:30:07 PM	20
32		Completed	2/1/2022 6:39:22 PM	20
33		Completed	2/1/2022 6:50:28 PM	13
34		Completed	2/1/2022 7:00:05 PM	13
35		Completed	2/1/2022 7:10:59 PM	14
36		Completed	2/1/2022 7:20:30 PM	14
37		Completed	2/1/2022 7:30:38 PM	15
38		Completed	2/1/2022 7:39:15 PM	15
39		Completed	2/1/2022 7:49:22 PM	16
40		Completed	2/1/2022 7:57:59 PM	16

Instr.Information

System TOC4-C
Instrument Options TOC/ASI/

Sample

Sample Name: C-TOC-9060-W
Sample ID: LCS
Origin: C-TOC-9060-W.met
Status Completed
Chk. Result

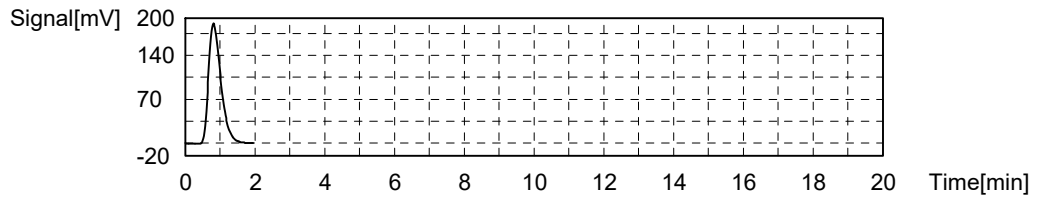
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.744mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	487.2	4.744mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	2/1/2022 1:14:48 PM

Mean Area 487.2
Mean Conc. 4.744mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: LCS
Origin: C-TOC-9060-W.met
Status Completed
Chk. Result

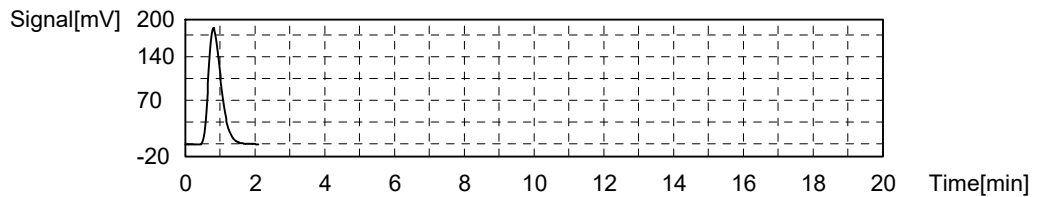
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.733mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	486.0	4.733mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	2/1/2022 1:24:17 PM

Mean Area 486.0
Mean Conc. 4.733mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: LCS
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

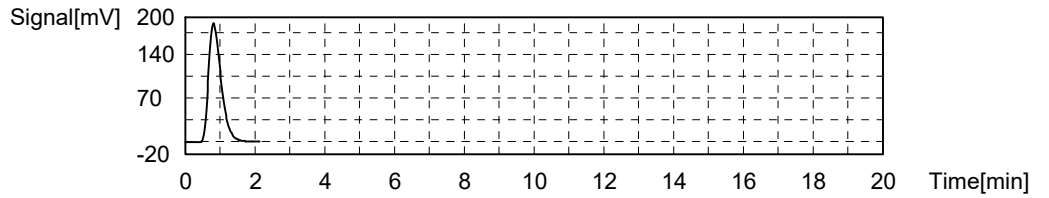
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.808mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	493.7	4.808mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 1:35:16 PM

Mean Area 493.7
 Mean Conc. 4.808mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: LCS
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

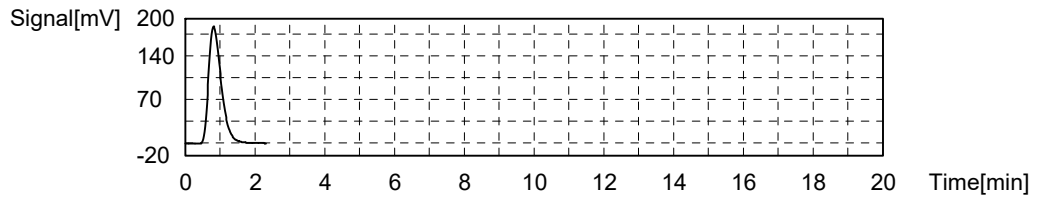
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.773mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	490.1	4.773mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 1:44:58 PM

Mean Area 490.1
 Mean Conc. 4.773mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: MBLK
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

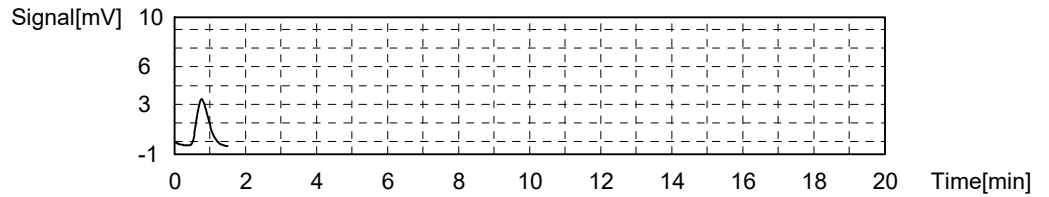
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08816mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.053	0.08816mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 1:55:19 PM

Mean Area 9.053
 Mean Conc. 0.08816mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: MBLK
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

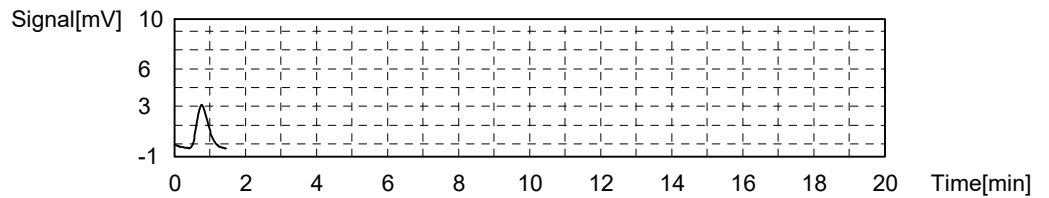
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07763mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.972	0.07763mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 2:04:09 PM

Mean Area 7.972
 Mean Conc. 0.07763mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: MBLK
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

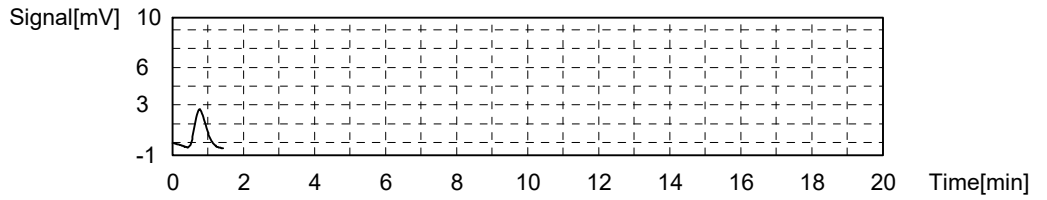
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06809mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.992	0.06809mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 2:14:25 PM

Mean Area 6.992
Mean Conc. 0.06809mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: MBLK
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

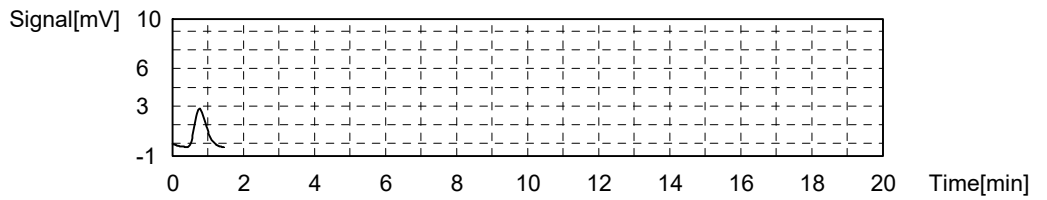
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07072mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.262	0.07072mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 2:23:15 PM

Mean Area 7.262
Mean Conc. 0.07072mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: CCV
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

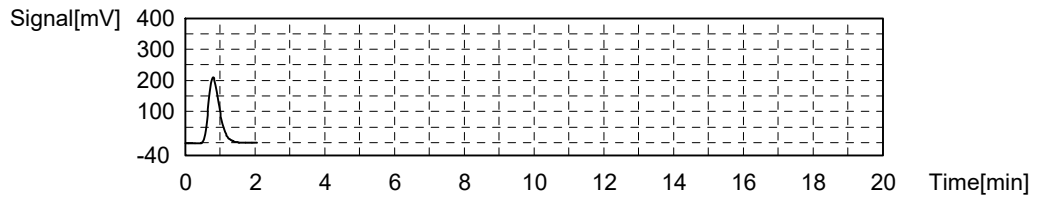
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.711mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	483.8	4.711mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 2:34:09 PM

Mean Area 483.8
Mean Conc. 4.711mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCV
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

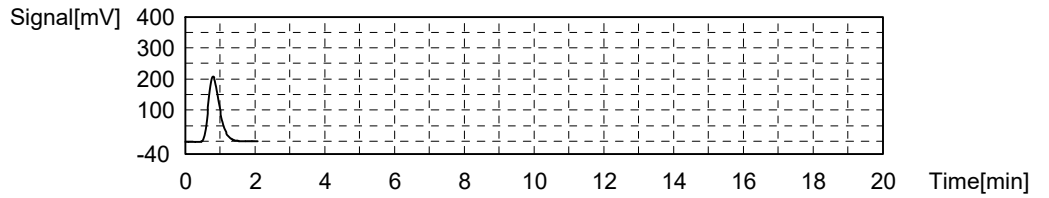
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.729mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	485.6	4.729mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 2:43:36 PM

Mean Area 485.6
 Mean Conc. 4.729mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCV
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

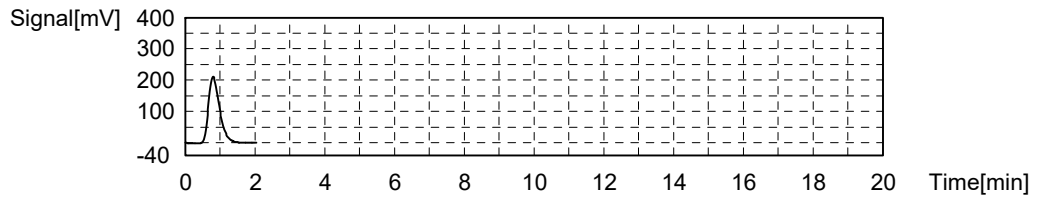
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.738mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	486.5	4.738mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 2:54:29 PM

Mean Area 486.5
 Mean Conc. 4.738mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCV
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

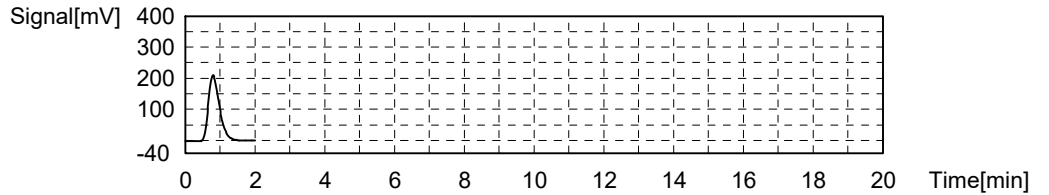
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.691mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	481.7	4.691mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 3:03:52 PM

Mean Area 481.7
Mean Conc. 4.691mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: C22010905-001E
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

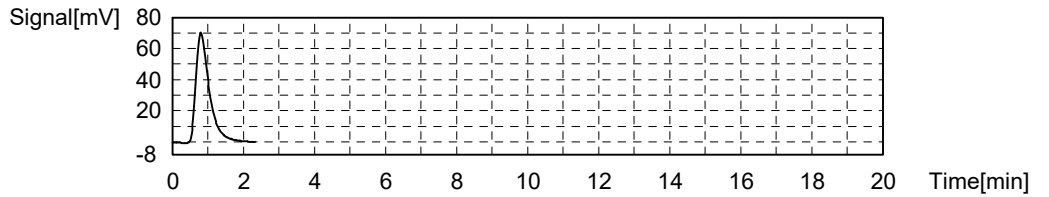
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.879mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	193.0	1.879mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 3:15:02 PM

Mean Area 193.0
Mean Conc. 1.879mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: C22010905-001E
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

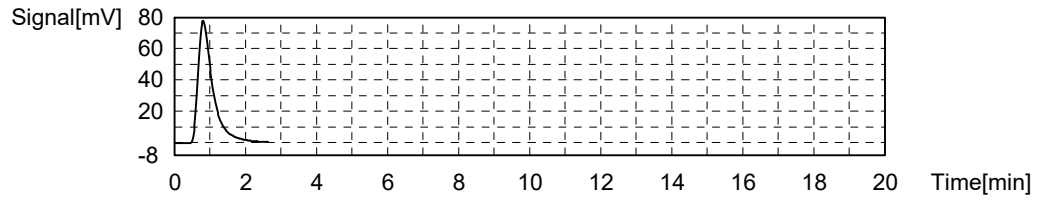
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.267mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	232.8	2.267mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 3:25:03 PM

Mean Area 232.8
 Mean Conc. 2.267mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010905-001E
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

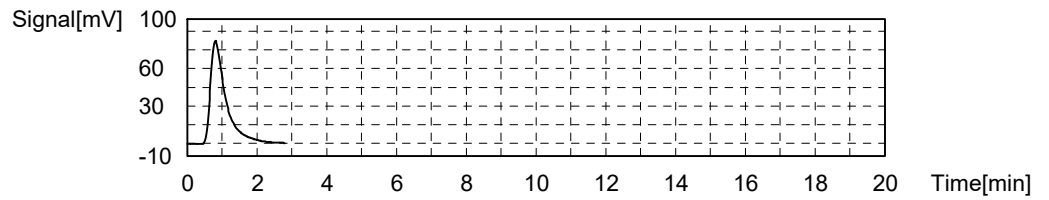
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.558mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	262.7	2.558mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 3:36:41 PM

Mean Area 262.7
 Mean Conc. 2.558mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010905-001E
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

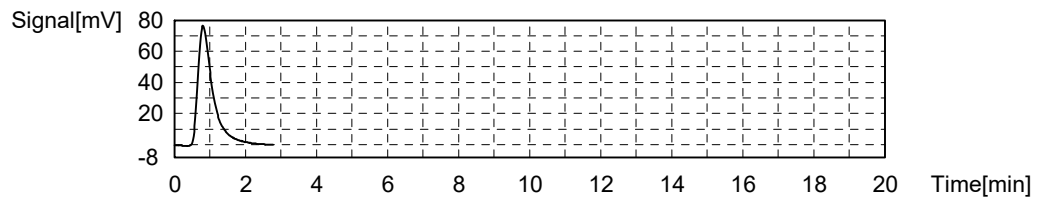
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.292mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	235.4	2.292mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 3:46:50 PM

Mean Area 235.4
 Mean Conc. 2.292mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010905-001EMS
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

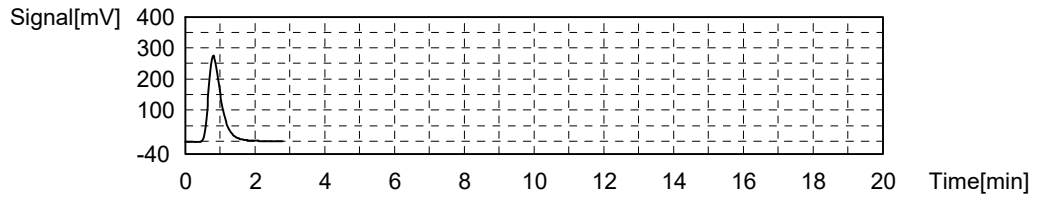
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.096mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	728.7	7.096mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 3:58:28 PM

Mean Area 728.7
 Mean Conc. 7.096mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010905-001EMS
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

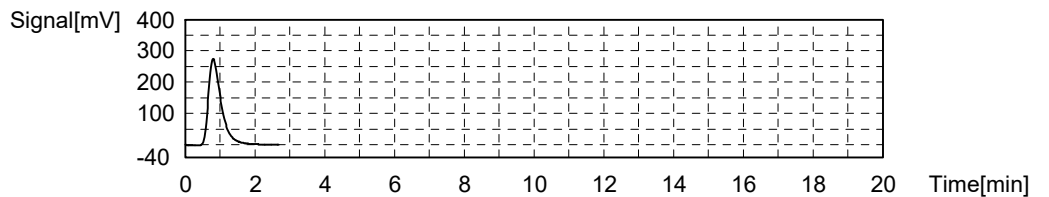
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.108mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	729.9	7.108mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 4:08:32 PM

Mean Area 729.9
 Mean Conc. 7.108mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010905-001EMS
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

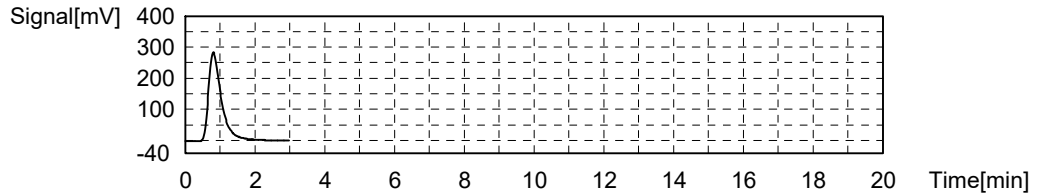
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.411mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	761.0	7.411mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 4:25:23 PM

Mean Area 761.0
Mean Conc. 7.411mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: C22010905-001EMS
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

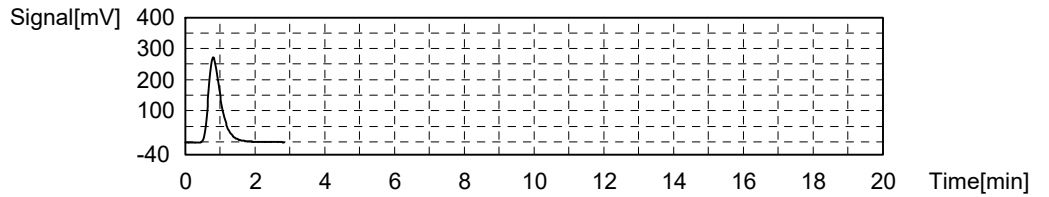
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.913mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	709.9	6.913mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 4:35:36 PM

Mean Area 709.9
Mean Conc. 6.913mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: C22010905-001EMSD
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

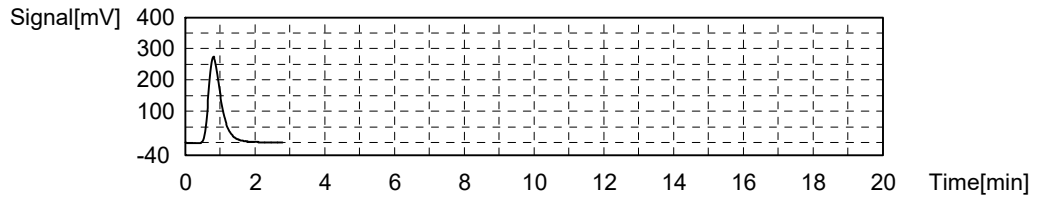
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.044mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	723.3	7.044mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 4:47:14 PM

Mean Area 723.3
 Mean Conc. 7.044mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010905-001EMSD
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

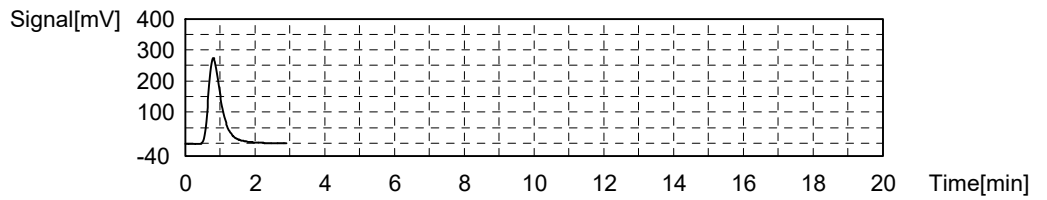
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.273mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	746.9	7.273mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 4:57:31 PM

Mean Area 746.9
 Mean Conc. 7.273mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010905-001EMSD
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

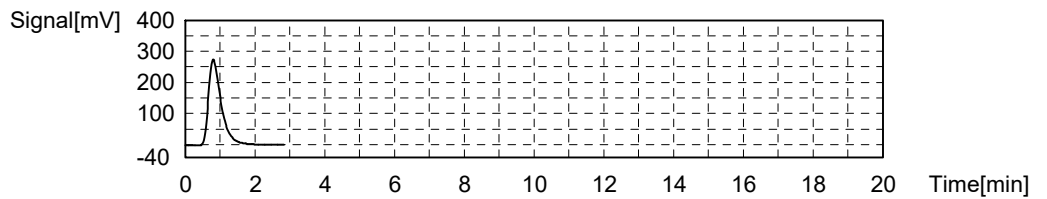
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.065mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	725.5	7.065mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 5:09:12 PM

Mean Area 725.5
 Mean Conc. 7.065mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010905-001EMSD
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

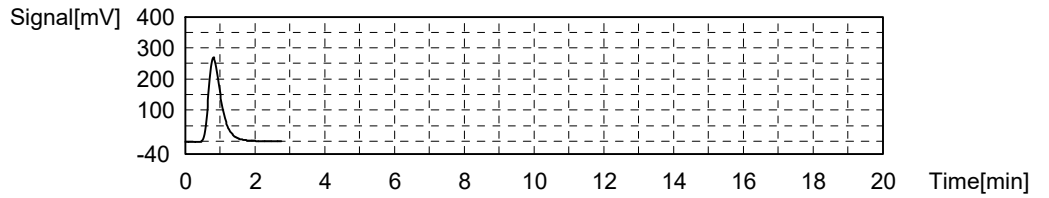
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.952mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	713.9	6.952mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 5:19:20 PM

Mean Area 713.9
 Mean Conc. 6.952mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010481-009A
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

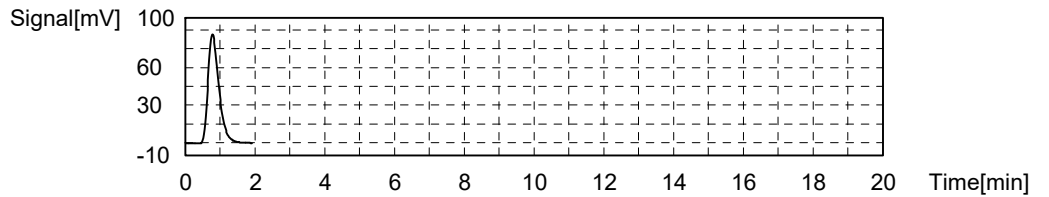
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.908mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	195.9	1.908mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 5:30:08 PM

Mean Area 195.9
 Mean Conc. 1.908mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010481-009A
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

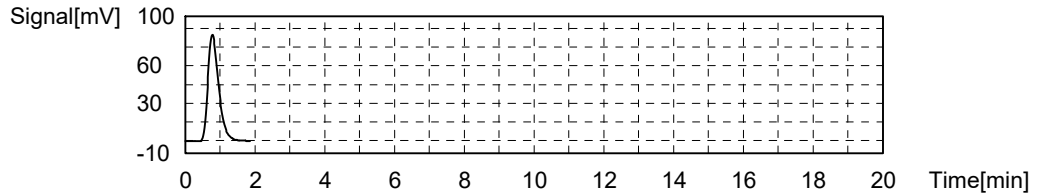
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.844mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	189.4	1.844mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 5:39:22 PM

Mean Area 189.4
Mean Conc. 1.844mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: C22010481-009A
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

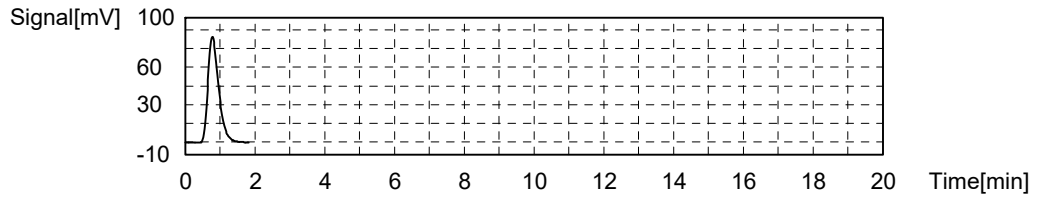
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.831mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	188.0	1.831mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 5:50:02 PM

Mean Area 188.0
Mean Conc. 1.831mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: C22010481-009A
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

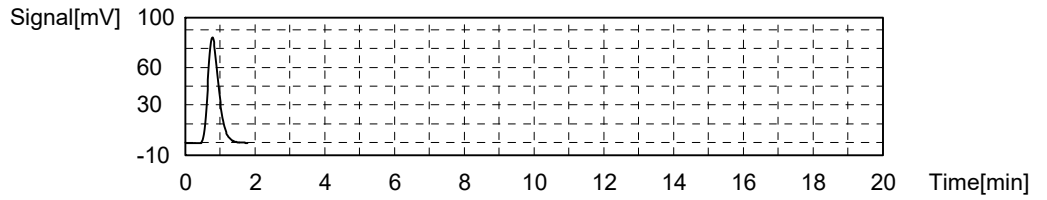
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.831mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	188.0	1.831mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 5:59:12 PM

Mean Area 188.0
Mean Conc. 1.831mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: C22010731-009A
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

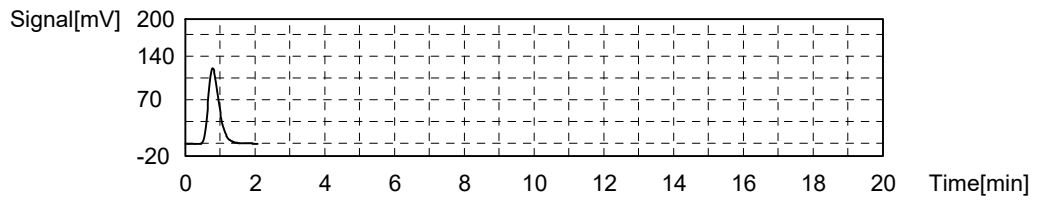
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	8.000	NPOC:21.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	272.7	21.24mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 6:10:07 PM

Mean Area 272.7
Mean Conc. 21.24mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: C22010731-009A
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

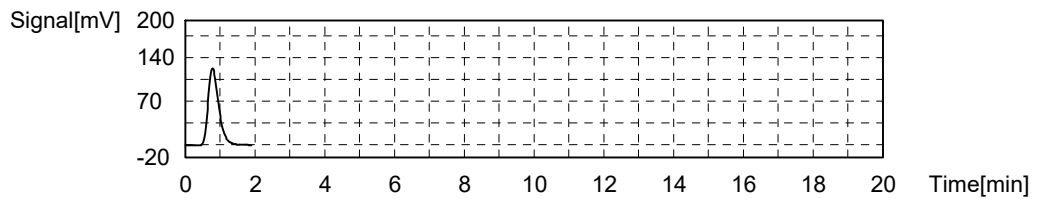
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	8.000	NPOC:20.89mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	268.1	20.89mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 6:19:23 PM

Mean Area 268.1
Mean Conc. 20.89mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010731-009A
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

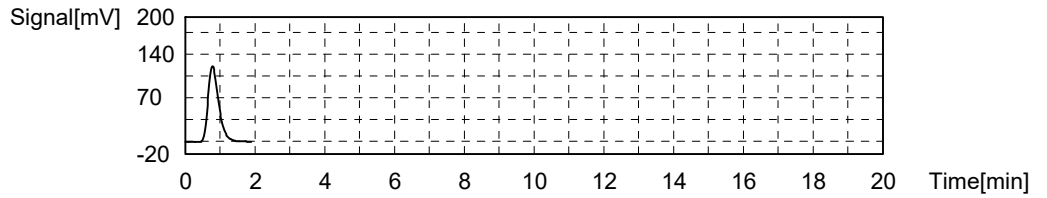
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	8.000	NPOC:20.64mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	264.9	20.64mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 6:30:07 PM

Mean Area 264.9
 Mean Conc. 20.64mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: C22010731-009A
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

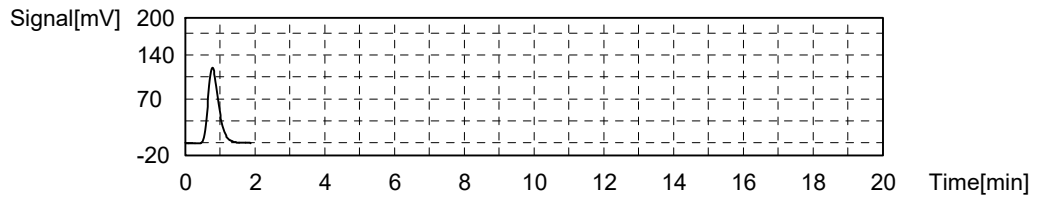
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	8.000	NPOC:20.50mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	263.2	20.50mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 6:39:22 PM

Mean Area 263.2
 Mean Conc. 20.50mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCV
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

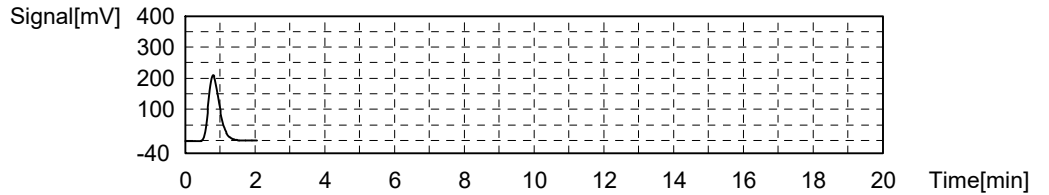
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.707mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	483.4	4.707mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 6:50:28 PM

Mean Area 483.4
Mean Conc. 4.707mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: CCV
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

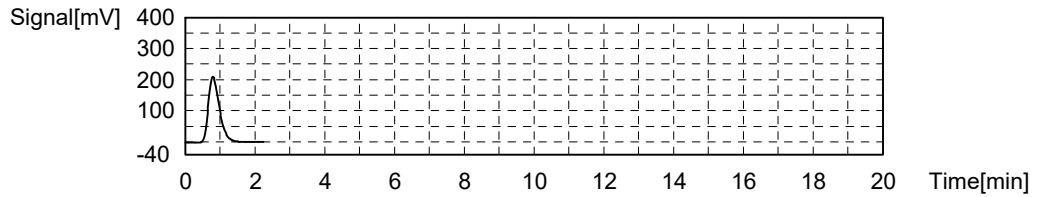
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.718mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	484.5	4.718mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 7:00:05 PM

Mean Area 484.5
Mean Conc. 4.718mg/L



Sample

Sample Name: C-TOC-9060-W
Sample ID: CCV
Origin: C-TOC-9060-W.met
Status: Completed
Chk. Result

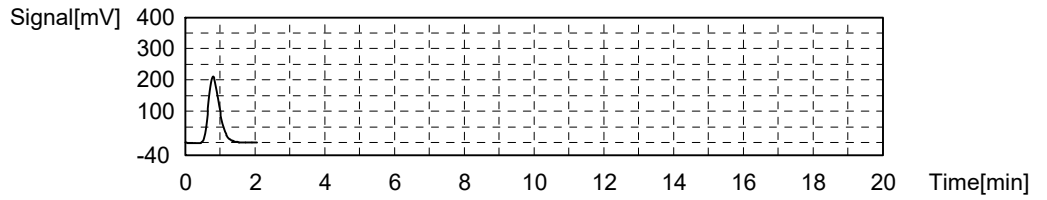
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.729mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	485.6	4.729mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 7:10:59 PM

Mean Area 485.6
 Mean Conc. 4.729mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCV
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

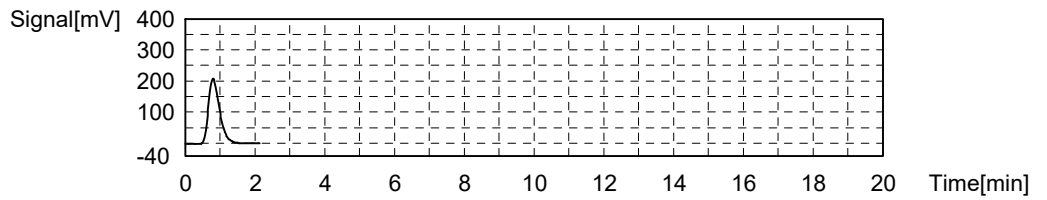
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.688mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	481.4	4.688mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 7:20:30 PM

Mean Area 481.4
 Mean Conc. 4.688mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCB
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

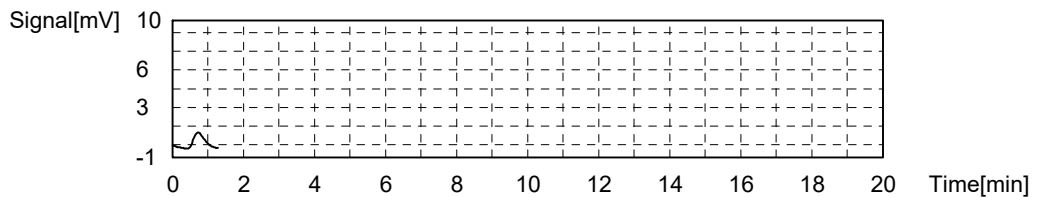
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02753mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.827	0.02753mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 7:30:38 PM

Mean Area 2.827
 Mean Conc. 0.02753mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCB
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

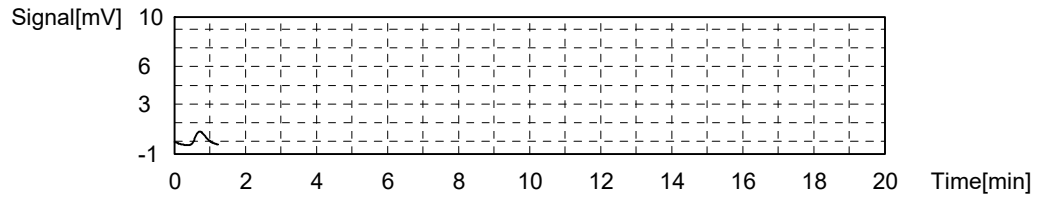
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02261mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.322	0.02261mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 7:39:15 PM

Mean Area 2.322
 Mean Conc. 0.02261mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCB
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

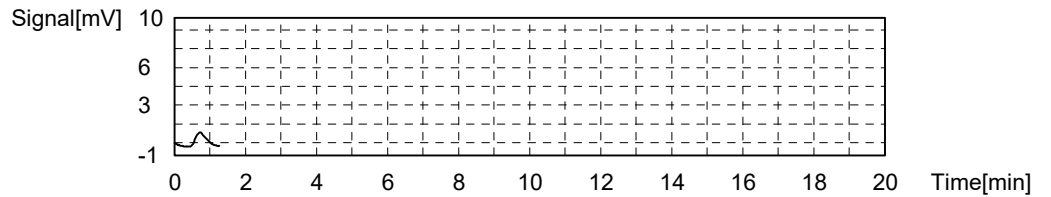
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02392mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.456	0.02392mg/L	1250uL	1		0-20 NPOC_220126B.2022_01_26_15_38_52.ca	2/1/2022 7:49:22 PM

Mean Area 2.456
 Mean Conc. 0.02392mg/L



Sample

Sample Name: C-TOC-9060-W
 Sample ID: CCB
 Origin: C-TOC-9060-W.met
 Status: Completed
 Chk. Result

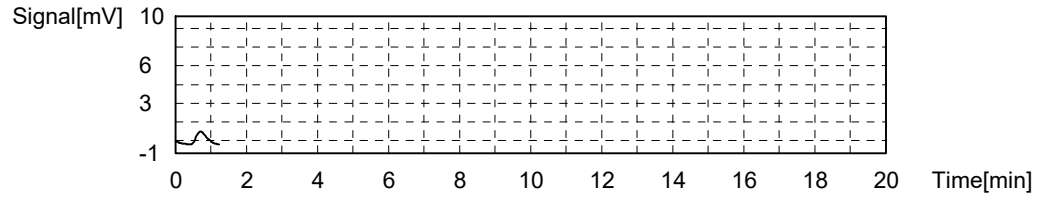
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02056mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.111	0.02056mg/L	1250uL	1		0-20 NPOC 220126B.2022_01_26_15_38_52.ca	2/1/2022 7:57:59 PM

Mean Area 2.111
Mean Conc. 0.02056mg/L



Standards

Std ID
Na Persulfate 12% 211108
NTS AQ DOC A5310C DOC 092221
NTS AQ TOC A5310C DOC 092321
Phosphoric Acid 201124
Phosphoric Water 211108
TOC4_ICAL_220127

Reagents

Reagent Name	Number	SampType
Puradisc 25 Syringe Filter-16950886	11023	
Organic Carbon Standard-2111C03	12375	LCS,MS,MSD
Organic Carbon Standard-710920m	11940	CCV,ICAL
Nitrogen UHP - 1-182-304	12104	

Energy Laboratories, Inc.

Standard LOG

Standard ID: NA PERSULFATE 12% 211108
Standard Name: Sodium Persulfate 12%
Date Prepared: 11/8/2021
Date Expires: 11/8/2022
Department: INORG
Vendor:
Lot Number:
Balance ID: BAL-109
Comments:
Type: Secondary
BY: Nils T. Schenck
Status: Open

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Phosphoric Acid - 60151	11571	30	mL	6/25/
Solution-2000-D	9959	970	mL	2/8/2
Sodium peroxydisulfate, 98% - Z30G0	11981	120	g	12/14

Final Volume: 1000 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

Energy Laboratories, Inc.

Standard LOG

Standard ID: PHOSPHORIC ACID 201124
Standard Name: Phosphoric Acid 20%
Date Prepared: 11/24/2020
Date Expires: 1/8/2023
Department: INORG
Vendor:
Lot Number:
Balance ID:
Comments:

Type: Secondary
BY: Heather Townsend
Status: Open

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Phosphoric Acid - 60151	11571	200	mL	6/25/
Solution-2000-D	9959	800	mL	2/8/2

Final Volume: 1000 mL

Stock Source

Base Units

Amount Added

Analyses

CAS

Conc: **ug/mL**

Energy Laboratories, Inc.

Standard LOG

Standard ID: PHOSPHORIC WATER 211108
Standard Name: Phosphoric Water
Date Prepared: 11/8/2021
Date Expires: 1/8/2023
Department: INORG
Vendor:
Lot Number:
Balance ID:
Comments:

Type: Secondary
BY: Nils T. Schenck
Status: Open

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Solution-2000-D	9959	2496	mL	2/8/21
Phosphoric Acid - 60151	11571	4	mL	6/25/21

Final Volume: 2500 mL

Stock Source

Base Units

Amount Added

Analyses

CAS

Conc: **ug/mL**

Certificate of Analysis



Date of Release: 6/17/2020
 Name: Phosphoric Acid (Orthophosphoric Acid)
 85% w/w, GR ACS
 Meets ACS Specifications
 Item No: PX0995 all size codes
 Lot / Batch No: 60151
 Country of Origin: Switzerland

Characteristic	Requirement		Results	Units
	Min.	Max.		
Antimony (Sb)		0.002	≤ 0.0002	%
Arsenic (As)		1	≤ 1	ppm
Assay	85.0		85.9	%
Calcium (Ca)		0.002	≤ 0.0001	%
Chloride (Cl)		3	≤ 3	ppm
Color (APHA)		10	≤ 10	
Form			Clear liquid	
Heavy metals (as Pb)		0.001	≤ 0.0001	%
Insoluble matter		0.001	≤ 0.001	%
Iron (Fe)		0.003	≤ 0.0003	%
Magnesium (Mg)		0.002	≤ 0.0001	%
Manganese (Mn)		0.5	≤ 0.05	ppm
Nitrate (NO3)		5	≤ 5	ppm
Potassium (K)		0.005	≤ 0.0001	%
Reducing substances			Passes test	
Sodium (Na)		0.025	≤ 0.0001	%
Sulfate (SO4)		0.003	≤ 0.0003	%
Volatile acids (as acetic acid)		0.001	≤ 0.001	%

Heather Sinn,

 Quality Control Manager
 This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany
 EMD Millipore Corporation
 400 Summit Drive,
 Burlington, MA 01803
 U.S.A

ID #: 11571
 Opened: _____
 Phosphoric Acid - 60151
 Expires: 6/25/2025
 Rec'd: 6/25/2020
 Energy Laboratories, Inc. 2393 Salt Creek Hwy
 Casper WY 82601-9601

Type I Ultra-Low TOC Analytical Grade DI Systems

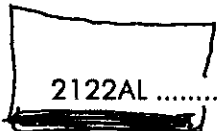
General Description & Specifications



Model Number General Description - Type I DI Systems

2121AL Type I Ultra-Low TOC Analytical Grade DI System for operation on pretreated water (water that has been pretreated via reverse osmosis, distillation or deionization by a central or point-of-use pretreatment system, and contains less than 20 ppm of total dissolved solids).

Requires Purification Kit Number 2613M1L (not included in system price). Kit includes activated carbon prefilter capsule, high purity TOC reduction DI module, and final filter capsule.



2122AL Type I Ultra-Low TOC Analytical Grade DI System for operation on ordinary tap water containing up to 170 ppm of TDS (total dissolved solids).

Requires Purification Kit Number 2613M2L (not included in system price). Kit includes activated carbon prefilter capsule, two high purity TOC reduction DI modules, and final filter capsule.

Upgradeability Any of these systems can be field upgraded or modified to become any other Type I system.

Model Number General Description - Combination Reverse Osmosis plus Type I DI Systems

RODI-C-12AL Combination Reverse Osmosis plus Type I Ultra-low TOC Analytical Grade DI System.

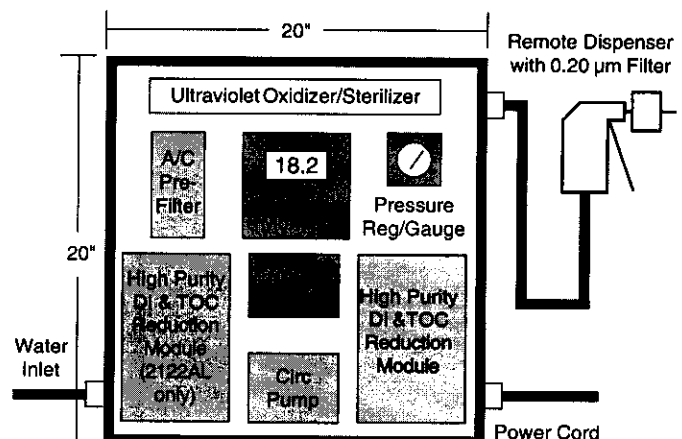
Requires Purification Kit Number 2613M1L-A (not included in system price). Kit includes high purity TOC reduction DI module, and a final filter capsule. See brochure RODI-C for details.

More information For Basic Analytical Grade Systems, request brochure #: T1-A.
 For Biological Grade Systems, request brochure #: T1-B.
 For Ultra-Low TOC Biological Grade Systems, request brochure #: T1-BL.
 For Combination Reverse Osmosis plus Type I DI Systems, request brochure #: RODI-C.
 For Reverse Osmosis and/or Type II DI Systems, request brochure #: T2-RO.
 For High Flow (8-12 Liters/minute) Systems, contact your sales person.

System and Purified Water Specifications

DI capacity 2121AL and RODI-C 12AL	*2,000
DI capacity 2122AL	*4,000
*(grains of ion exchange capacity as CaCO ₃)	
Resistivity	18.2 Megohm-cm
TOC	<5 PPB
Bacteria	<1 cfu/ml
Continuous flow rate	2-Liters/minute
Cabinet depth	12" (305 mm)
Cabinet width	20" (508 mm)
Cabinet height	20" (508 mm)
External power supply input	100-240 VAC, 50/60 Hz
Internal power	12 VDC @ 2.5 Amps from external supply
Minimum inlet pressure	35 PSIG (2.3 Bar)
Maximum inlet pressure	100 PSIG (6.7 Bar)
Shipping weight	40-55 lbs (18-25 kg)
Operating weight	55-70 lbs (25-32 kg)
Inlet connection	1/4" or 3/8" NPT

ID #: 9960	ID #: 9959
Opened: _____	Opened: _____
Solution-2000-I	Solution-2000-D
Expires: 4/14/2018	Expires: 4/14/2018
Rec'd: 9/21/2017	Rec'd: 9/21/2017
Energyl Laboratories, Inc. 2393 Salt Creek Hwy	Energyl Laboratories, Inc. 2393 Salt Creek Hwy
Casper WY 82602-0247	Casper WY 82602-0247



AQUA SOLUTIONS

Type I Ultra-Low TOC Analytical Grade DI Systems

Features and Benefits

- ◆ Produces 18 Megohm-cm Type I water
- ◆ Ultra-Low trace organics - (TOC <5 PPB)
- ◆ Exceeds ASTM, CAP, CLSI & USP Specs
- ◆ Accepts 100-240 VAC, 50/60 Hz power
- ◆ System runs on 12 VDC internal power
- ◆ Certified by CSA for the US & Canada
- ◆ Can be bench, shelf or wall-mounted
- ◆ CE marked for export to Europe, Etc
- ◆ Remote dispenser included in price
- ◆ 2-Year warranty - (Most Countries)
- ◆ Meets current USP specifications
- ◆ User installable and serviceable
- ◆ 0.2 micron final filter capsule
- ◆ DI modules can be recycled
- ◆ Complete instrumentation
- ◆ Fully automatic operation
- ◆ Continuous recirculation
- ◆ Made in the USA



AQUA SOLUTIONS, INC.
8 Old Burnt Mountain Road
Jasper, GA 30143 USA
Phones: 706-692-9200
800-458-2021
Fax: 706-692-9203
E-mail: mail@AquaA.com
Internet: www.AquaA.com

Product Availability

AQUA SOLUTIONS Type I Ultra-Low TOC Analytical Grade DI Systems produce Type I reagent grade water that meets or exceeds ASTM, CAP, CLSI, and USP specifications.

These systems include a built-in, dual-wavelength ultraviolet (UV) oxidizer/sterilizer to reduce TOC to <5 PPB. The UV includes an LED display and audible alarms to monitor UV lamp performance.

They are recommended for laboratory applications requiring Type I water that contains little, if any, TOC (trace organic carbon).

Chemical Applications include AA, GC, HPLC, IC, ICP, IR, MS, heavy or trace metals, environmental testing, TOC, TOX, TCLP, VOC, electrochemistry, and toxicity testing, where ultra-low TOC Type I water is required.

Biological Applications include those that are sensitive to TOC, (where endotoxin/pyrogen levels are NOT critical).

AQUA SOLUTIONS Type I DI systems dispense purified water at the rate of 2-Liters/minute. Higher flow rate systems (8-12 Liters/minute) are available.

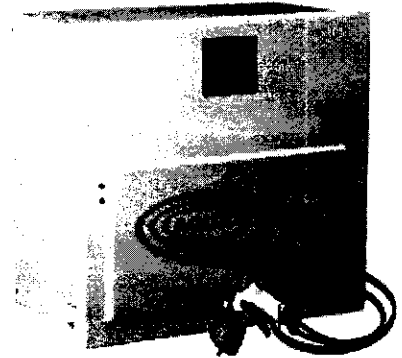
AQUA SOLUTIONS Ultra-Low TOC analytical grade systems are designed to operate on *ordinary tap water*, or water that has been pretreated via reverse osmosis, distillation, or deionization by a central or point-of-use system.

For those installations where the incoming tap water feed contains more than 170 ppm of TDS (total dissolved solids), and/or the average daily purified water usage exceeds 20 Liters/day, reverse osmosis (RO) pretreatment should be considered (see next paragraph).

AQUA SOLUTIONS Type I Ultra-Low TOC DI Systems can also be purchased with a *built-in 10 or 20 Liter/hour RO pretreatment system*, all in a single cabinet measuring just 20" (508 mm) wide by 20" (508 mm) high by 12" (305 mm) deep - see page 2 for details!

And, if more RO capacity is required to feed multiple systems, or other applications, individual **AQUA SOLUTIONS** RO systems are available in 10, 20, 30, and 60 Liter/hour and higher configurations.

AQUA SOLUTIONS Type I Ultra-Low TOC Systems offer many features and benefits, and higher capacities that are not found on many other systems. **And, they are very competitively priced!**



Product No.: 54100
Product: Sodium peroxydisulfate, 98%
Lot No.: Z30G002

Appearance	White crystals
Assay	99.2 %
Active oxygen	6.67 %
Ammonium persulfate	0.003 %
Sodium sulfate	0.75 %
Insolubles, aqueous	52 ppm
Iron	3 ppm
Moisture at 60°C	0.01 %

Retest date: December 14, 2030

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This document has been electronically generated and does not require a signature.

This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.

ID #: 11981
Opened: _____
Sodium peroxydisulfate, 98% - Z30G002
Expires: 12/14/2030
Rec'd: 4/16/2021
Energy Laboratories Inc. 2393 Salt Creek Hwy
Casper WY 82601-6601

Energy Laboratories, Inc.

Standard LOG

Standard ID: TOC4_ICAL_220127
Standard Name: TOC4 Calibration
Date Prepared: 1/27/2022
Date Expires: 9/28/2022
Department: INORG
Vendor:
Lot Number:
Balance ID:
Type: Secondary
BY: Nils T. Schenck
Status: Open
Comments: Calibration levels and concentrations per SOP 50-227-06

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Organic Carbon Standard-710920m	11940		mL	9/28/
Solution-2000-D	9959		mL	1/21/

Final Volume: 1000 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**



▪ Certificate of Analysis ▪

A Waters Company

Product: 1000 mg/L Total Organic Carbon (TOC)
Catalog Number: 978
Lot No. 710920m
Starting Material: Glucose (C₆H₁₂O₆)
Matrix: 18 megohm deionized water and 0.5% (v/v) H₂SO₄
Density: 1.0037 ± 0.0006 g/ml at 20.1 °C and 762 mm Hg
Verification Method: UV Persulfate/Conductometric TOC
Certificate Issue Date: November 2, 2020
Expiration Date: September 28, 2022
Revision Number: Original

CERTIFICATION

Parameter	Certified Value ¹ mg/L	Uncertainty ² %	NIST Traceability	
			SRM Number ³	Recovery %
Total Organic Carbon (TOC)	1000	2.49	84I	101

ID #: 11940

Opened: _____

Organic Carbon Standard-710920m

Expires: 9/28/2022

Rec'd: 3/17/2021

Energy Laboratories, Inc. 2393 Salt Creek Hwy

Casper WY 82601-9601

Certificate of Conformity

Whatman™

Product Information

Product Number: 6753-2504

Product Name: Puradisc 25 Syringe Filter, 0.45 µm, nylon, 1000/pk

Lot Number/Serial Number: 16950886

Conformance & Quality systems statement

This is to certify that this product conforms to GE Healthcare Life Sciences specifications.

All products are manufactured via a Quality System certified to **BS EN ISO9001:2008** and tested in accordance with documented quality procedures and approved as a result of meeting the required specification

Electronic signature

This document has been electronically produced and is valid without a signature.

ID #: 11023
Opened: _____
Puradisc 25 Syringe Filter-16950886
Expires: 8/6/2024
Rec'd: 8/6/2019
Energy Laboratories, Inc. 2393 Salt Creek Hwy
Casper WY 82601-9601

Version AA



imagination at work

www.gelifesciences.com

GE Healthcare UK Limited
Amersham Place Little Chalfont
Buckinghamshire HP7 9NA UK



Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 2111C03

Product Number: 1847

Manufacture Date: NOV 09, 2021

Expiration Date: OCT 2022

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phosphoric Acid	7664-38-2	ACS
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Organic Carbon Stock Solution	APHA (5310 B)
Potassium Hydrogen Phthalate, Stock Solution	EPA (SW-846) (9060)
Potassium Hydrogen Phthalate, Stock Solution, 1000 mg Carbon/liter	EPA (415.1)
Organic Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1847-16	500 mL amber glass	12 months
1847-8	250 mL amber glass	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Kerry Kingsbury (11/09/2021)

Quality Control Supervisor

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

ID #: 12375

Opened: _____

Organic Carbon Standard-2111C03

Expires: 10/31/2022

Rec'd: 1/7/2022

Energy Laboratories, Inc. 2393 Salt Creek Hwy
Casper WY 82601-9601

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A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Norco, Inc
Casper Warehouse
3333 West Yellowstone Hwy
Mills, WY 82644

Cust Number WH084
Order Number 67085950
P.O. Number N/A

Lot Number 1-182-304
Part Number SPG TUHPNI
Product Nitrogen, UHP
Cylinder Size T
Pressure 2640 psig @ 70°F

Date Analyzed 7/1/2021
Expires 7-2024

Cylinder Number(s)
TW04-730235
T-1260
061665
TWC-759451
300-4710337Y
072367

Component	Reported Concentration	Requested Concentration	Analytical Method
Nitrogen	≥ 99.999%	≥ 99.999%	FTIR Zirconium Oxide Cell Electrocapitance Cell
THC (as Methane)	< 0.5 ppm	< 0.5 ppm	
Oxygen	< 2.0 ppm	< 2.0 ppm	
Water	< 3.0 ppm	< 3.0 ppm	

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials). NIST Tracability Numbers are available upon request.

Approved:

Jeff Korn
Lab Technician

Date Signed:

July 16, 2021

898 W. GOWEN ROAD • BOISE, IDAHO 83705
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672

ID #: 12104

Opened: _____

Nitrogen UHP - 182-304

Expires: 7/30/2024

Rec'd: 7/30/2021

Energy Laboratories, Inc. 2393 Salt Creek Hwy
Casper WY 82601-9601