

Cover Page

Order ID : Q3148

Project ID : Transfer Station-SPDES

Client : Tully Environmental, Inc

Lab Sample Number

Q3148-01
Q3148-02

Client Sample Number

001 Willets Pt Blvd (Sep)
002 35th Ave(Sep)

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 9/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Tully Environmental, Inc

Project Name: Transfer Station-SPDES

Project # N/A

Order ID # Q3148

Test Name: Metals Group 10

A. Number of Samples and Date of Receipt:

2 Water samples were received on 09/19/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group 10. This data package contains results for Metals Group 10.

C. Analytical Techniques:

The analysis and digestion of Metals Group 10 was based on method 200.7.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

The temperature of the samples at the time of receipt was 18.3°C. Lab notified this issue to the client. See the communication in shipping Document section.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3148

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 09/26/2025

LAB CHRONICLE

OrderID:	Q3148	OrderDate:	9/19/2025 11:47:00 AM
Client:	Tully Environmental, Inc	Project:	Transfer Station-SPDES
Contact:	Dean Devoe	Location:	J23

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3148-01	001 Willets Pt Blvd (Sep)	Water			09/18/25			09/19/25
			Metals Group 10	200.7		09/22/25	09/22/25	
Q3148-02	002 35th Ave(Sep)	Water			09/18/25			09/19/25
			Metals Group 10	200.7		09/22/25	09/22/25	



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Hit Summary Sheet
SW-846

SDG No.: Q3148

Order ID: Q3148

Client: Tully Environmental, Inc

Project ID: Transfer Station-SPDES

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 001 Willets Pt Blvd (Sep)								
Q3148-01	001 Willets Pt Blvd (Sep)	Water	Copper	97.8		1.89	10.0	ug/L
Q3148-01	001 Willets Pt Blvd (Sep)	Water	Iron	1150		18.0	50.0	ug/L
Q3148-01	001 Willets Pt Blvd (Sep)	Water	Lead	4.49	J	1.21	6.00	ug/L
Client ID : 002 35th Ave(Sep)								
Q3148-02	002 35th Ave(Sep)	Water	Copper	72.8		1.89	10.0	ug/L
Q3148-02	002 35th Ave(Sep)	Water	Iron	1300		18.0	50.0	ug/L
Q3148-02	002 35th Ave(Sep)	Water	Lead	3.42	J	1.21	6.00	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	09/18/25
Project:	Transfer Station-SPDES	Date Received:	09/19/25
Client Sample ID:	001 Willets Pt Blvd (Sep)	SDG No.:	Q3148
Lab Sample ID:	Q3148-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-50-8	Copper	97.8		1	1.89	10.0	ug/L	09/22/25 12:35	09/22/25 16:11	EPA 200.7	
7439-89-6	Iron	1150		1	18.0	50.0	ug/L	09/22/25 12:35	09/22/25 16:11	EPA 200.7	
7439-92-1	Lead	4.49	J	1	1.21	6.00	ug/L	09/22/25 12:35	09/22/25 16:11	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group 10			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	09/18/25
Project:	Transfer Station-SPDES	Date Received:	09/19/25
Client Sample ID:	002 35th Ave(Sep)	SDG No.:	Q3148
Lab Sample ID:	Q3148-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-50-8	Copper	72.8		1	1.89	10.0	ug/L	09/22/25 12:35	09/22/25 16:15	EPA 200.7	
7439-89-6	Iron	1300		1	18.0	50.0	ug/L	09/22/25 12:35	09/22/25 16:15	EPA 200.7	
7439-92-1	Lead	3.42	J	1	1.21	6.00	ug/L	09/22/25 12:35	09/22/25 16:15	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group 10			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
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J = Estimated Value
 B = Analyte Found in Associated Method Blank
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 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Copper	1020	1000	102	95 - 105	P	09/22/2025	12:31	LB137271
	Iron	3960	4000	99	95 - 105	P	09/22/2025	12:31	LB137271
	Lead	3850	4000	96	95 - 105	P	09/22/2025	12:31	LB137271

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Copper	22.3	20.0	111	80 - 120	P	09/22/2025	12:48	LB137271
	Iron	83.7	100	84	80 - 120	P	09/22/2025	12:48	LB137271
	Lead	12.3	12.0	102	80 - 120	P	09/22/2025	12:48	LB137271

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Copper	1250	1250	100	90 - 110	P	09/22/2025	13:36	LB137271
	Iron	5000	5000	100	90 - 110	P	09/22/2025	13:36	LB137271
	Lead	4930	5000	99	90 - 110	P	09/22/2025	13:36	LB137271
CCV02	Copper	1230	1250	99	90 - 110	P	09/22/2025	14:48	LB137271
	Iron	4990	5000	100	90 - 110	P	09/22/2025	14:48	LB137271
	Lead	4880	5000	98	90 - 110	P	09/22/2025	14:48	LB137271
CCV03	Copper	1210	1250	97	90 - 110	P	09/22/2025	15:46	LB137271
	Iron	4830	5000	96	90 - 110	P	09/22/2025	15:46	LB137271
	Lead	4790	5000	96	90 - 110	P	09/22/2025	15:46	LB137271
CCV04	Copper	1220	1250	97	90 - 110	P	09/22/2025	16:27	LB137271
	Iron	4930	5000	99	90 - 110	P	09/22/2025	16:27	LB137271
	Lead	4790	5000	96	90 - 110	P	09/22/2025	16:27	LB137271
CCV05	Copper	1270	1250	102	90 - 110	P	09/22/2025	16:43	LB137271
	Iron	5050	5000	101	90 - 110	P	09/22/2025	16:43	LB137271
	Lead	5020	5000	100	90 - 110	P	09/22/2025	16:43	LB137271
CCV06	Copper	1240	1250	99	90 - 110	P	09/22/2025	17:49	LB137271
	Iron	4960	5000	99	90 - 110	P	09/22/2025	17:49	LB137271
	Lead	4890	5000	98	90 - 110	P	09/22/2025	17:49	LB137271
CCV07	Copper	1280	1250	102	90 - 110	P	09/22/2025	18:49	LB137271
	Iron	5150	5000	103	90 - 110	P	09/22/2025	18:49	LB137271
	Lead	5070	5000	101	90 - 110	P	09/22/2025	18:49	LB137271



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Metals

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CRDL STANDARD FOR AA & ICP

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Copper	22.1	20.0	110	65 - 135	P	09/22/2025	13:05	LB137271
	Iron	90.5	100	90	65 - 135	P	09/22/2025	13:05	LB137271
	Lead	13.9	12.0	116	65 - 135	P	09/22/2025	13:05	LB137271



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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Copper	4.60	+/-10	U	20.0	P	09/22/2025	12:54	LB137271
	Iron	23.4	+/-50	U	100	P	09/22/2025	12:54	LB137271
	Lead	2.30	+/-6	U	12.0	P	09/22/2025	12:54	LB137271

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Copper	4.60	+/-10	U	20.0	P	09/22/2025	13:42	LB137271
	Iron	23.4	+/-50	U	100	P	09/22/2025	13:42	LB137271
	Lead	2.30	+/-6	U	12.0	P	09/22/2025	13:42	LB137271
CCB02	Copper	4.60	+/-10	U	20.0	P	09/22/2025	14:52	LB137271
	Iron	23.4	+/-50	U	100	P	09/22/2025	14:52	LB137271
	Lead	2.30	+/-6	U	12.0	P	09/22/2025	14:52	LB137271
CCB03	Copper	4.60	+/-10	U	20.0	P	09/22/2025	15:50	LB137271
	Iron	23.4	+/-50	U	100	P	09/22/2025	15:50	LB137271
	Lead	2.30	+/-6	U	12.0	P	09/22/2025	15:50	LB137271
CCB04	Copper	4.60	+/-10	U	20.0	P	09/22/2025	16:31	LB137271
	Iron	23.4	+/-50	U	100	P	09/22/2025	16:31	LB137271
	Lead	2.30	+/-6	U	12.0	P	09/22/2025	16:31	LB137271
CCB05	Copper	4.60	+/-10	U	20.0	P	09/22/2025	16:47	LB137271
	Iron	23.4	+/-50	U	100	P	09/22/2025	16:47	LB137271
	Lead	2.30	+/-6	U	12.0	P	09/22/2025	16:47	LB137271
CCB06	Copper	4.60	+/-10	U	20.0	P	09/22/2025	17:53	LB137271
	Iron	23.4	+/-50	U	100	P	09/22/2025	17:53	LB137271
	Lead	2.30	+/-6	U	12.0	P	09/22/2025	17:53	LB137271
CCB07	Copper	4.60	+/-10	U	20.0	P	09/22/2025	19:08	LB137271
	Iron	23.4	+/-50	U	100	P	09/22/2025	19:08	LB137271
	Lead	2.30	+/-6	U	12.0	P	09/22/2025	19:08	LB137271

Metals
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PREPARATION BLANK SUMMARY

Client: Tully Environmental, Inc

SDG No.: Q3148

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169779BL	WATER			Batch Number:	PB169779		Prep Date:	09/22/2025	
	Copper	1.89	<5	U	10.0	P	09/22/2025	14:33	LB137271
	Iron	18.0	<25	U	50.0	P	09/22/2025	14:33	LB137271
	Lead	1.21	<3	U	6.00	P	09/22/2025	14:33	LB137271

Metals

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INTERFERENCE CHECK SAMPLE

Client:	<u>Tully Environmental, Inc</u>	SDG No.:	<u>Q3148</u>
Contract:	<u>TULL01</u>	Lab Code:	<u>ACE</u>
ICS Source:	<u>EPA</u>	Instrument ID:	<u>P4</u>

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Copper	13.2	2.0	660	-18	22	09/22/2025	13:10	LB137271
	Iron	109000	101000	108	85600	116500	09/22/2025	13:10	LB137271
	Lead	-6.20			-12	12	09/22/2025	13:10	LB137271
ICSAB01	Copper	521	511	102	434	588	09/22/2025	13:14	LB137271
	Iron	104000	99300	105	84400	114500	09/22/2025	13:14	LB137271
	Lead	45.3	49.0	92	37	61	09/22/2025	13:14	LB137271
ICSA	Copper	5.60	2.0	280	-18	22	09/22/2025	13:22	LB137271
	Iron	91800	101000	91	85600	116500	09/22/2025	13:22	LB137271
	Lead	22.4			-12	12	09/22/2025	13:22	LB137271
ICSAB	Copper	532	511	104	434	588	09/22/2025	13:26	LB137271
	Iron	99300	99300	100	84400	114500	09/22/2025	13:26	LB137271
	Lead	57.9	49.0	118	37	61	09/22/2025	13:26	LB137271



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: <u>Tully Environmental, Inc</u>	level: <u>low</u>	sdg no.: <u>Q3148</u>
contract: <u>TULL01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3149-02</u>	client id: <u>002 35th Ave(Aug)MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3149-02MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Copper	ug/L	75 - 125	163		10.0	U	150	109		P
Iron	ug/L	75 - 125	2080		437		1500	110		P
Lead	ug/L	75 - 125	513		1.37	J	500	102		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Tully Environmental, Inc</u>	level: <u>low</u>	sdg no.: <u>Q3148</u>
contract: <u>TULL01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3149-02</u>	client id: <u>002 35th Ave(Aug)MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3149-02MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Copper	ug/L	75 - 125	155		10.0	U	150	103		P
Iron	ug/L	75 - 125	1970		437		1500	102		P
Lead	ug/L	75 - 125	485		1.37	J	500	97		P

Metals

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Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Matrix:

Level: LOW

Client ID:

Sample ID:

Spiked ID:

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
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Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tully Environmental, Inc</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3148</u>
Contract:	<u>TULL01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3149-02</u>	Client ID:	<u>002 35th Ave(Aug)DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3149-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	437		415		5		P
Lead	ug/L	20	1.37	J	1.30	J	5		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tully Environmental, Inc</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3148</u>
Contract:	<u>TULL01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3149-02MS</u>	Client ID:	<u>002 35th Ave(Aug)MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3149-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Copper	ug/L	20	163		155		5		P
Iron	ug/L	20	2080		1970		5		P
Lead	ug/L	20	513		485		6		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169779BS							
Copper	ug/L	150	155		103	85 - 115	P
Iron	ug/L	1500	1460		97	85 - 115	P
Lead	ug/L	500	477		95	85 - 115	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

002 35th Ave(Aug)L

Lab Name: Alliance **Contract:** TULL01
Lab Code: ACE **Lb No.:** lb137271 **Lab Sample ID :** Q3149-02L **SDG No.:** Q3148
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Copper	10.0	U	50.0	U			P
Iron	437		452		3		P
Lead	1.37	J	30.0	U	100.0		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000



METAL PREPARATION & ANALYICAL SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Tully Environmental, Inc

SDG No.: Q3148

Contract: TULL01

Lab Code: ACE

Method:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169779							
PB169779BL	PB169779BL	MB	WATER	09/22/2025	50.0	25.0	
PB169779BS	PB169779BS	LCS	WATER	09/22/2025	50.0	25.0	
Q3148-01	001 Willets Pt Blvd (Sep)	SAM	WATER	09/22/2025	50.0	25.0	
Q3148-02	002 35th Ave(Sep)	SAM	WATER	09/22/2025	50.0	25.0	
Q3149-02DUP	002 35th Ave(Aug)DUP	DUP	WATER	09/22/2025	50.0	25.0	
Q3149-02MS	002 35th Ave(Aug)MS	MS	WATER	09/22/2025	50.0	25.0	
Q3149-02MSD	002 35th Ave(Aug)MSD	MSD	WATER	09/22/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tully Environmental, Inc

Contract: TULL01

Lab code: ACE

Sdg no.: Q3148

Instrument id number: _____

Method: _____

Run number: LB137271

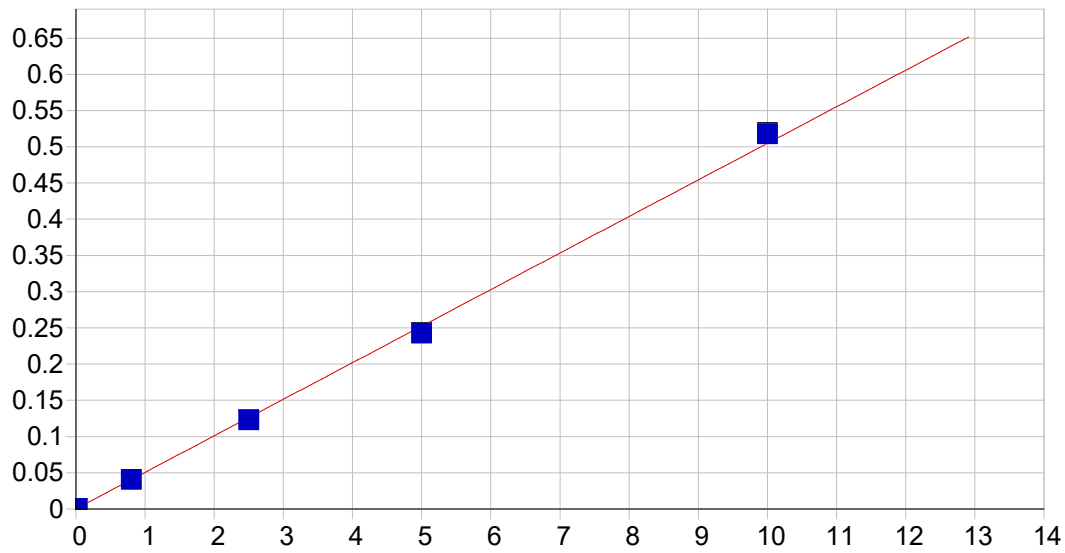
Start date: 09/22/2025

End date: 09/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1206	Cu,Fe,Pb
S1	S1	1	1210	Cu,Fe,Pb
S2	S2	1	1214	Cu,Fe,Pb
S3	S3	1	1219	Cu,Fe,Pb
S4	S4	1	1222	Cu,Fe,Pb
S5	S5	1	1227	Cu,Fe,Pb
ICV01	ICV01	1	1231	Cu,Fe,Pb
LLICV01	LLICV01	1	1248	Cu,Fe,Pb
ICB01	ICB01	1	1254	Cu,Fe,Pb
CRI01	CRI01	1	1305	Cu,Fe,Pb
ICSA01	ICSA01	1	1310	Cu,Fe,Pb
ICSAB01	ICSAB01	1	1314	Cu,Fe,Pb
ICSA	ICSA	20	1322	Cu,Fe,Pb
ICSAB	ICSAB	20	1326	Cu,Fe,Pb
CCV01	CCV01	1	1336	Cu,Fe,Pb
CCB01	CCB01	1	1342	Cu,Fe,Pb
PB169779BS	PB169779BS	1	1409	Cu,Fe,Pb
PB169779BL	PB169779BL	1	1433	Cu,Fe,Pb
CCV02	CCV02	1	1448	Cu,Fe,Pb
CCB02	CCB02	1	1452	Cu,Fe,Pb
CCV03	CCV03	1	1546	Cu,Fe,Pb
CCB03	CCB03	1	1550	Cu,Fe,Pb
Q3148-01	001 Willets Pt Blvd (Sep)	1	1611	Cu,Fe,Pb
Q3148-02	002 35th Ave(Sep)	1	1615	Cu,Fe,Pb
CCV04	CCV04	1	1627	Cu,Fe,Pb
CCB04	CCB04	1	1631	Cu,Fe,Pb
Q3149-02DUP	002 35th Ave(Aug)DUP	1	1635	Cu,Fe,Pb
Q3149-02L	002 35th Ave(Aug)L	5	1639	Cu,Fe,Pb
CCV05	CCV05	1	1643	Cu,Fe,Pb
CCB05	CCB05	1	1647	Cu,Fe,Pb
Q3149-02MS	002 35th Ave(Aug)MS	1	1651	Cu,Fe,Pb
Q3149-02MSD	002 35th Ave(Aug)MSD	1	1655	Cu,Fe,Pb
CCV06	CCV06	1	1749	Cu,Fe,Pb
CCB06	CCB06	1	1753	Cu,Fe,Pb
CCV07	CCV07	1	1849	Cu,Fe,Pb
CCB07	CCB07	1	1908	Cu,Fe,Pb



METAL RAW DATA

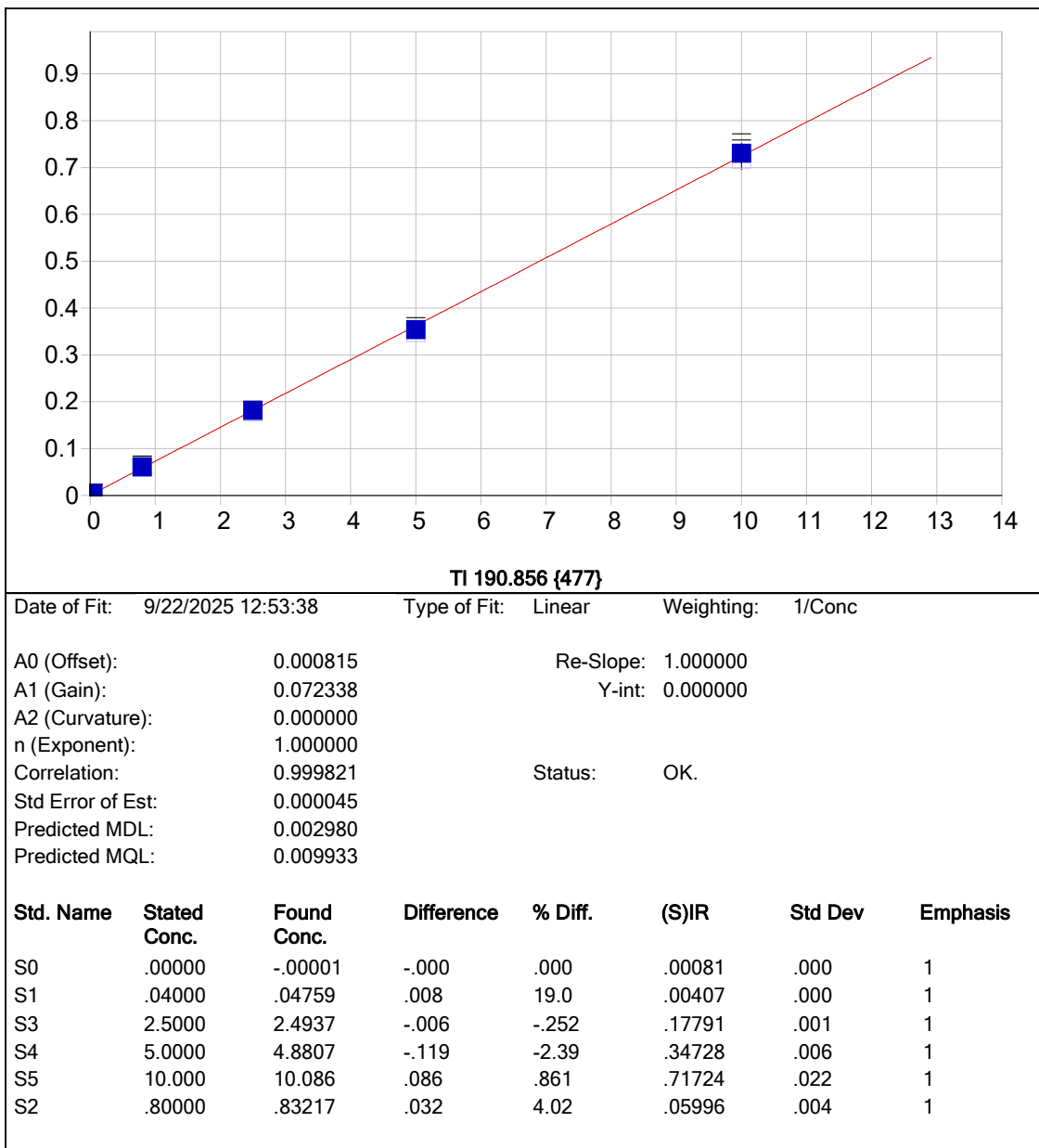


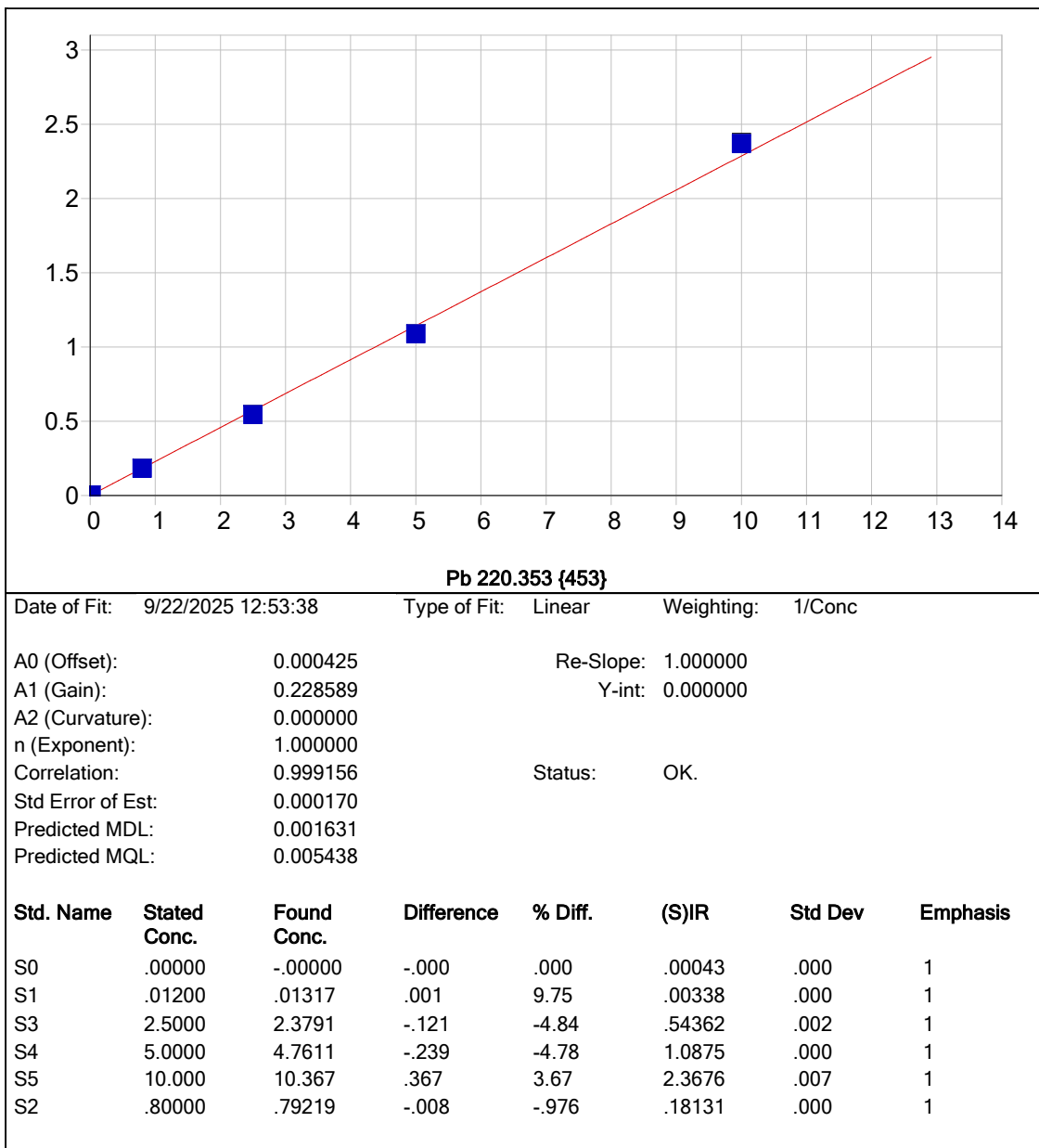
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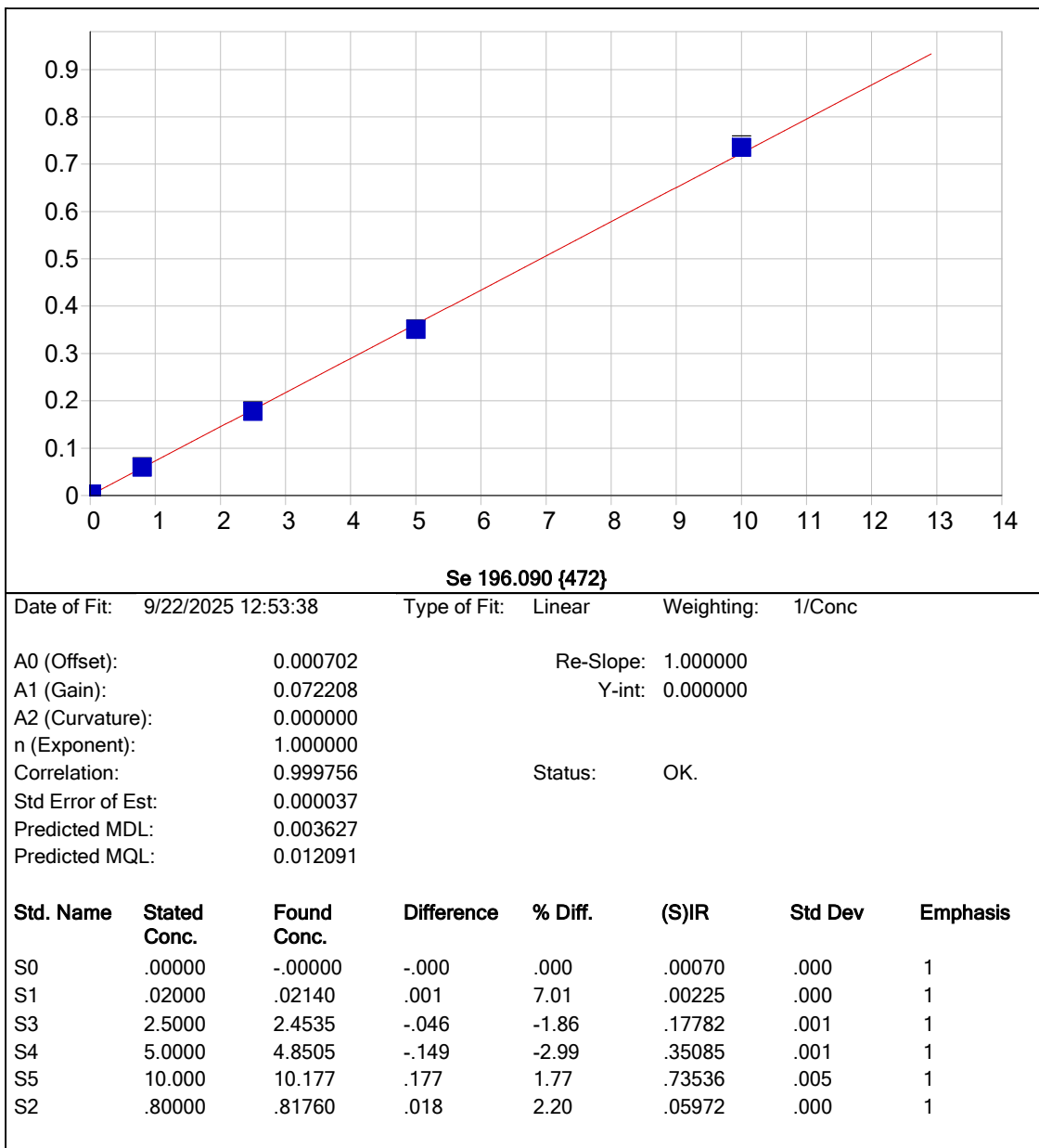
Date of Fit: 9/22/2025 12:53:38 Type of Fit: Linear Weighting: 1/Conc

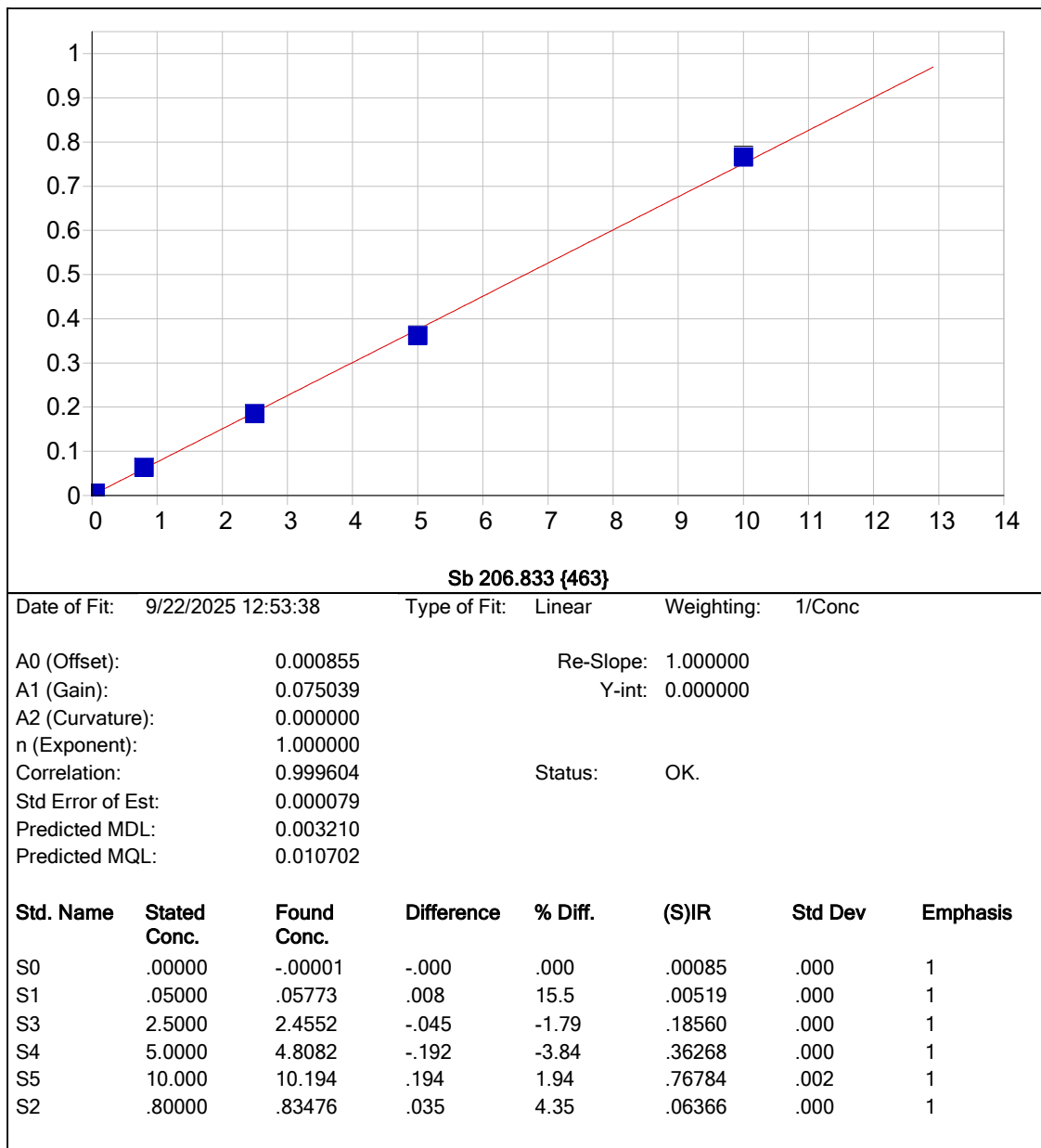
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A1 (Gain): 0.050461 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999549 Status: OK.
Std Error of Est: 0.000036
Predicted MDL: 0.002847
Predicted MQL: 0.009491

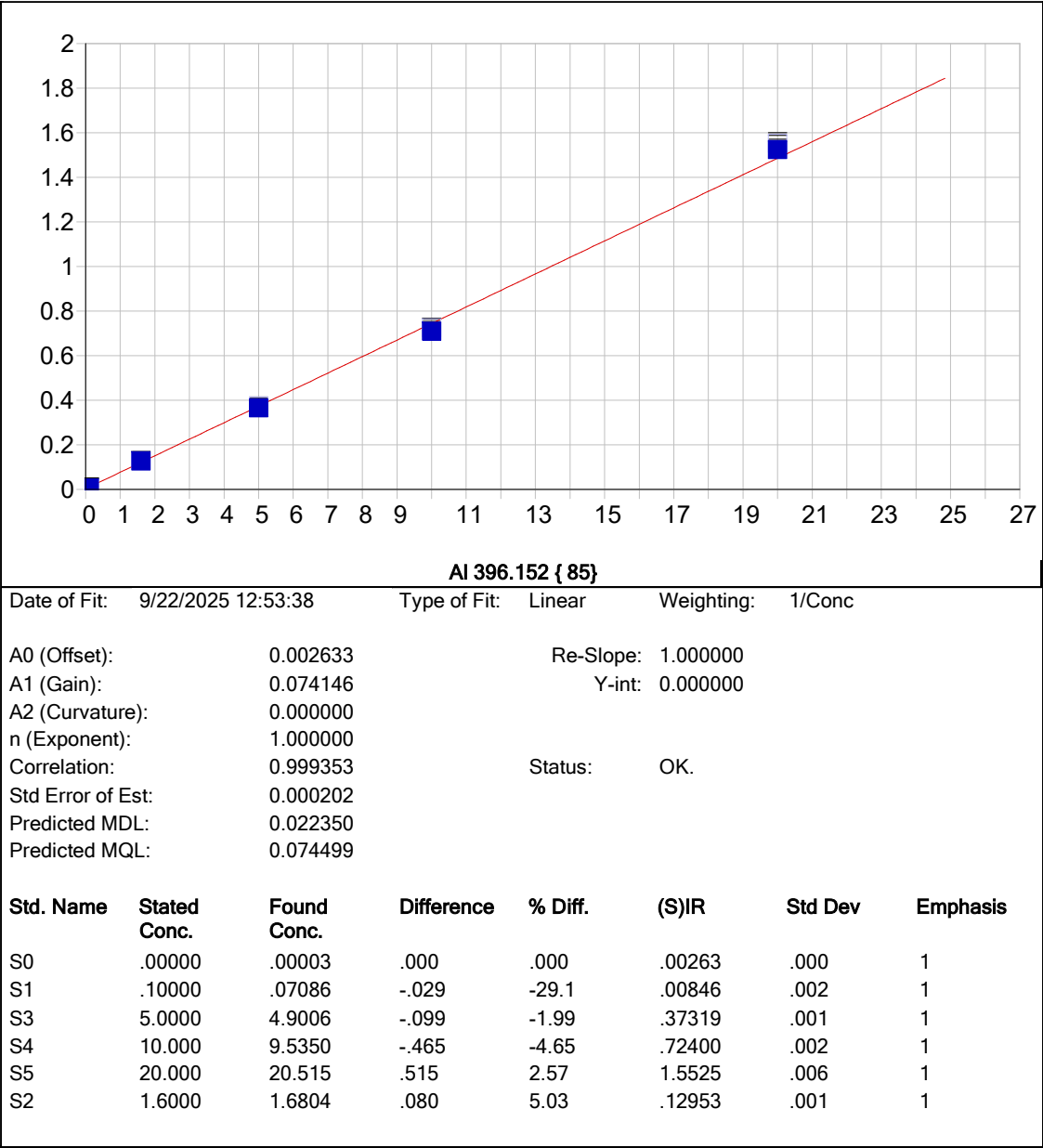
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00012	.000	1
S1	.02000	.02174	.002	8.72	.00121	.000	1
S3	2.5000	2.4299	-.070	-2.80	.12261	.001	1
S4	5.0000	4.8045	-.196	-3.91	.24230	.001	1
S5	10.000	10.259	.259	2.59	.51731	.002	1
S2	.80000	.80434	.004	.543	.04067	.000	1

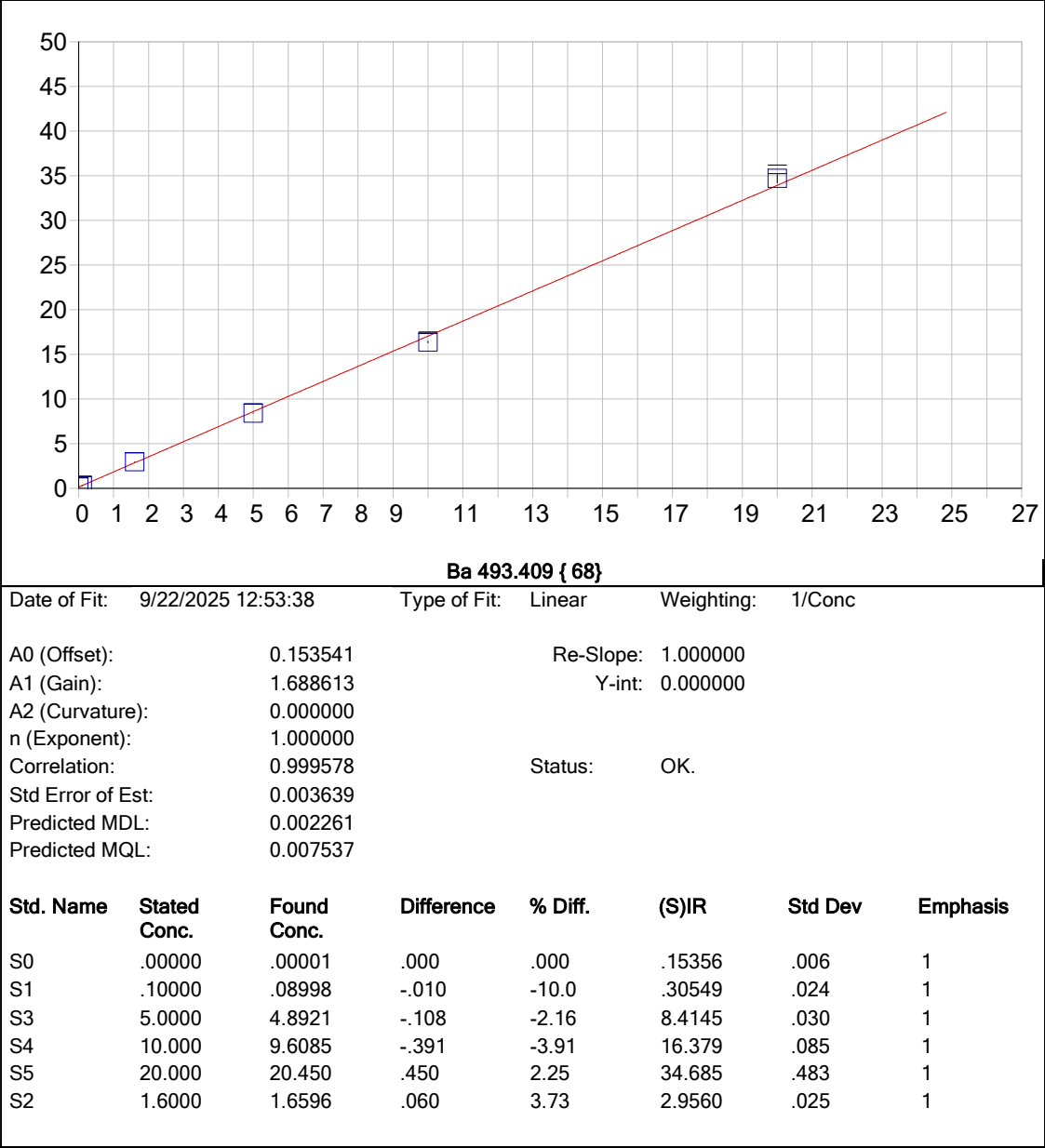


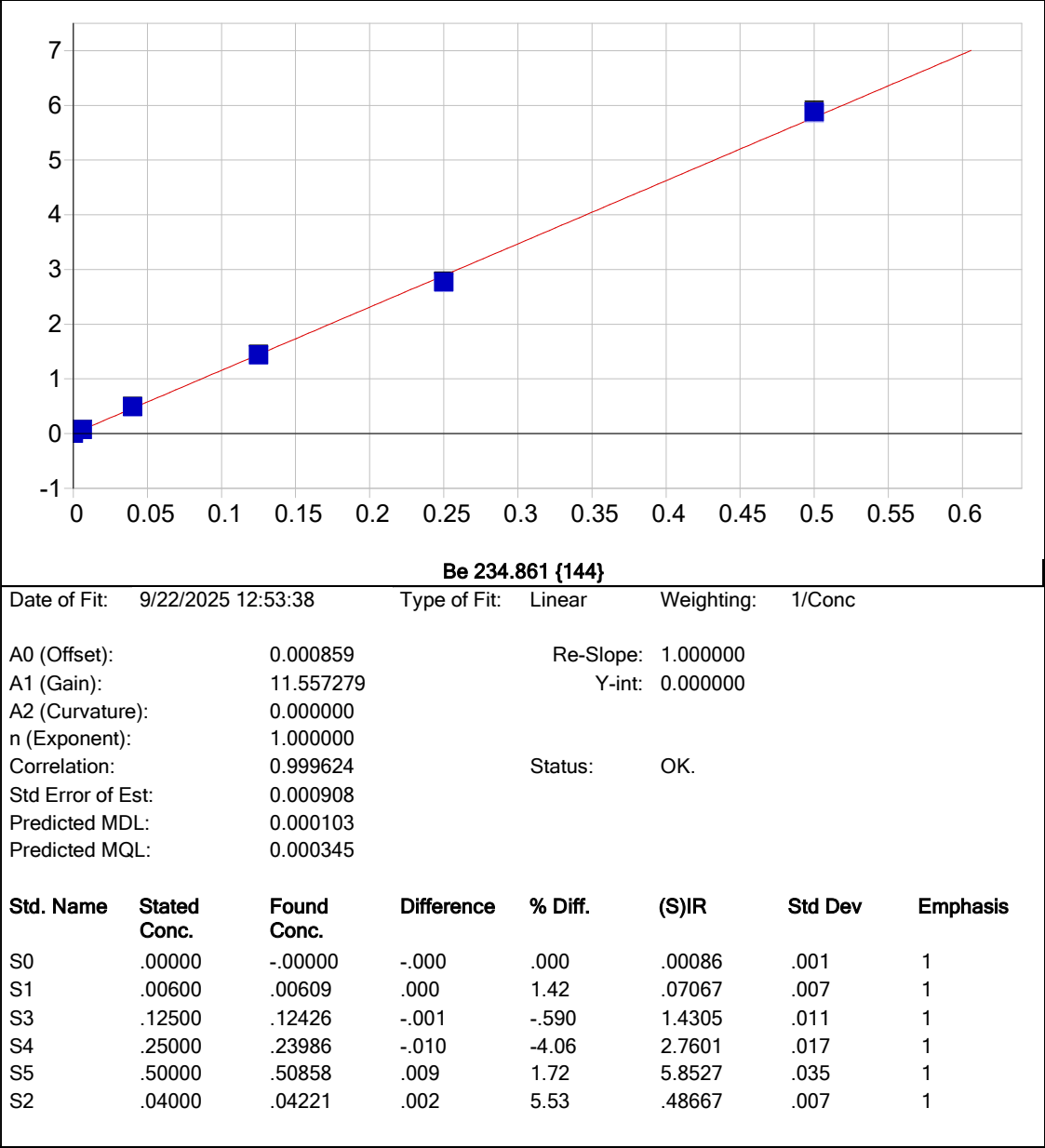


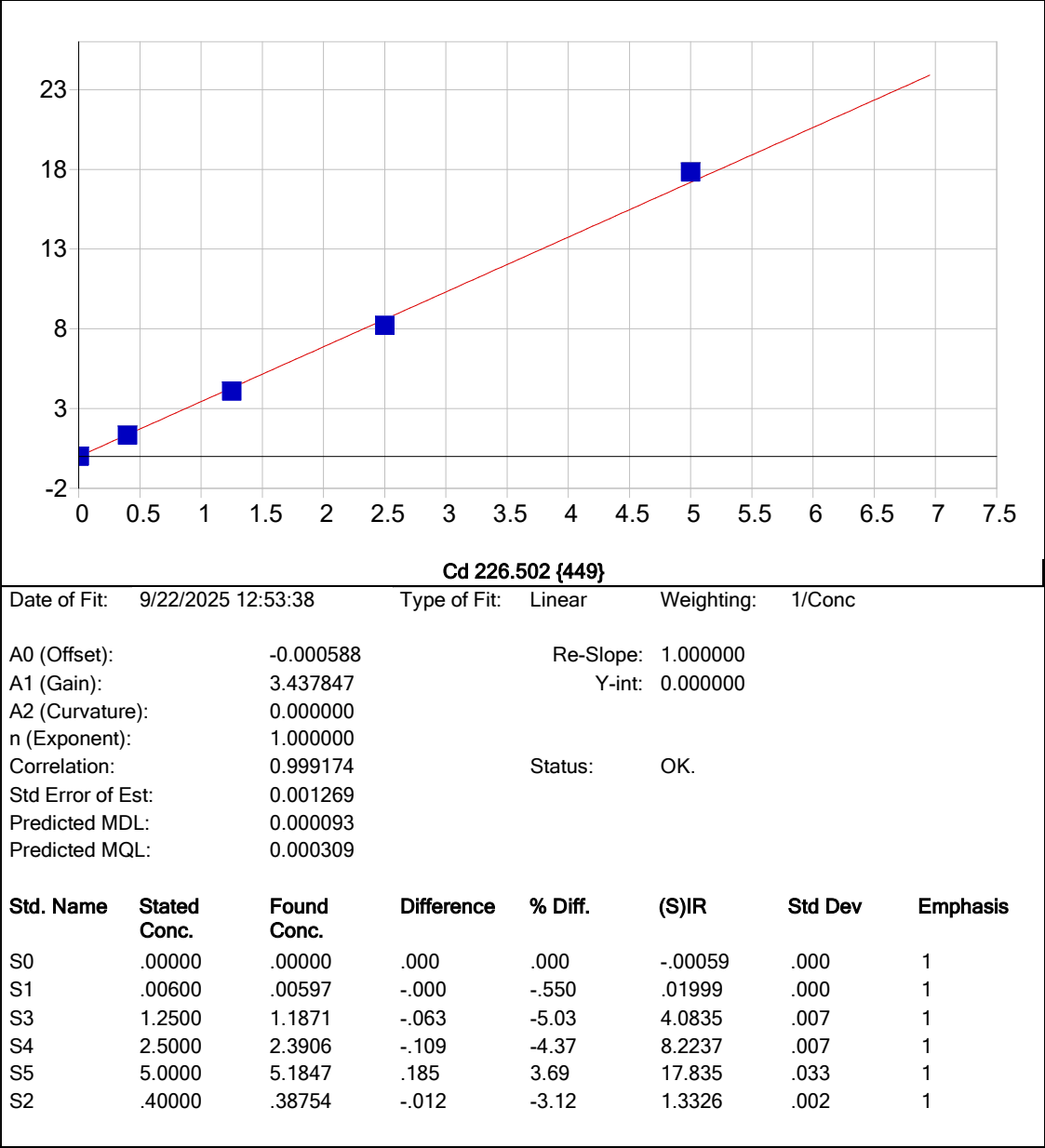


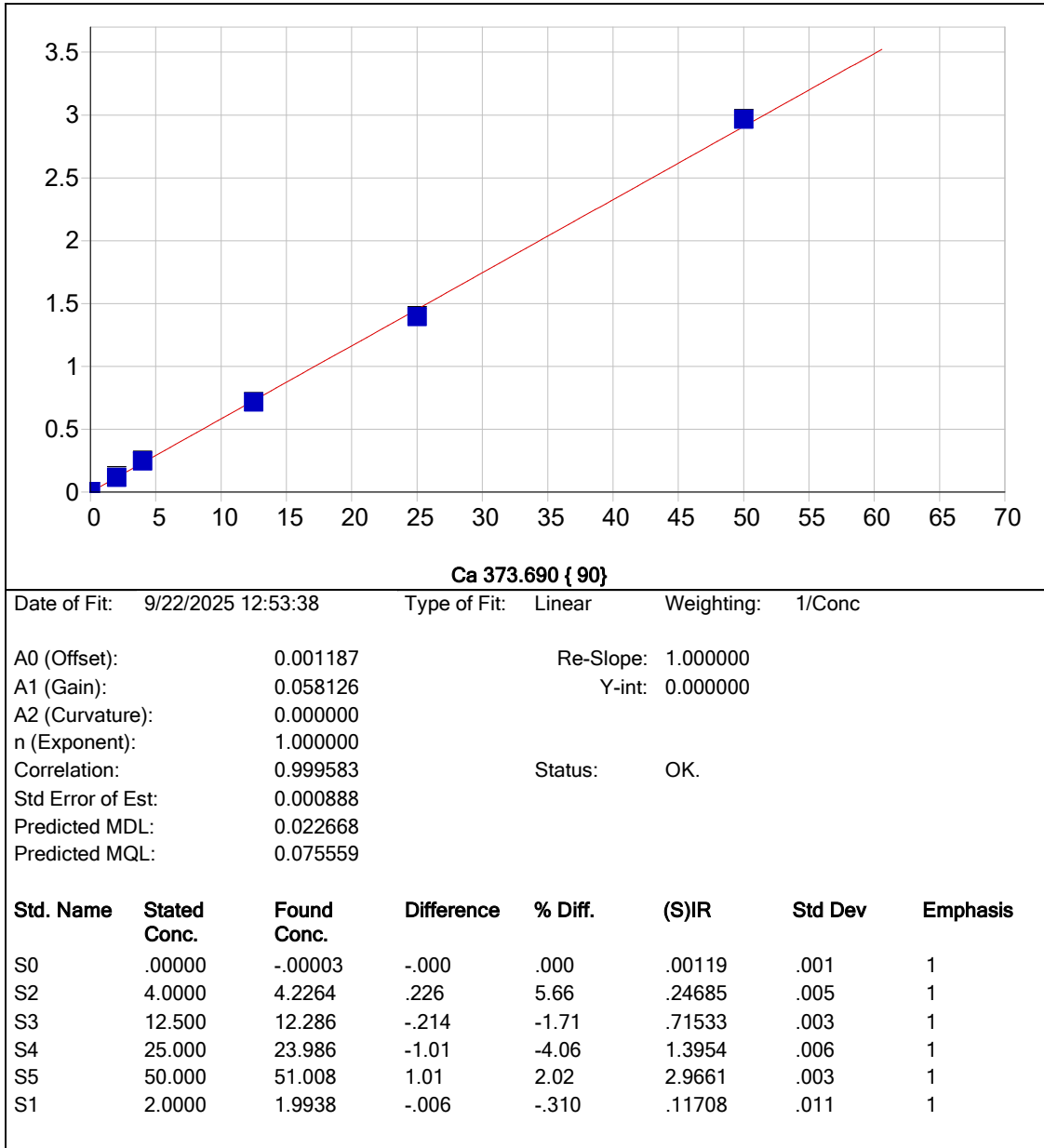


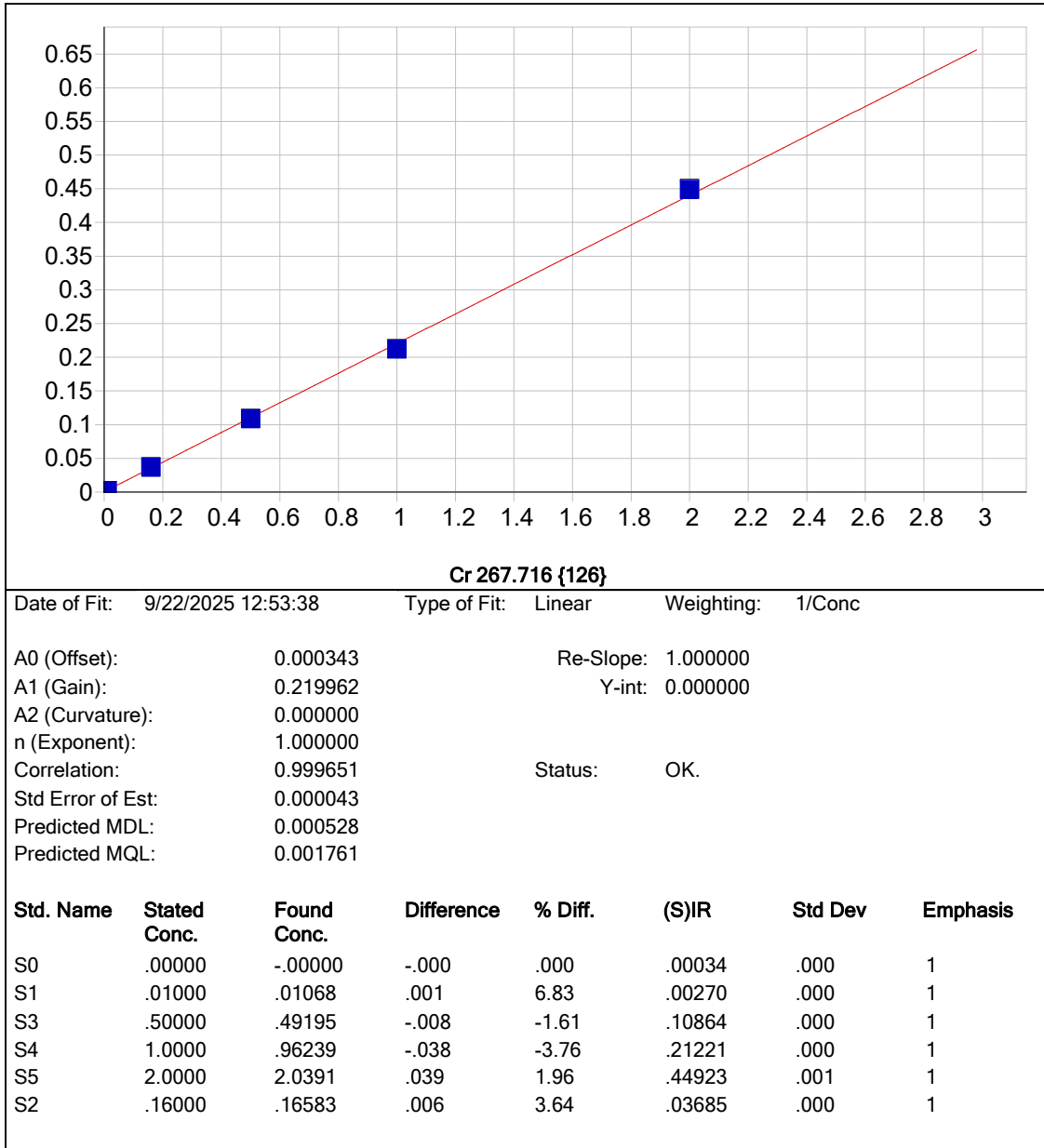


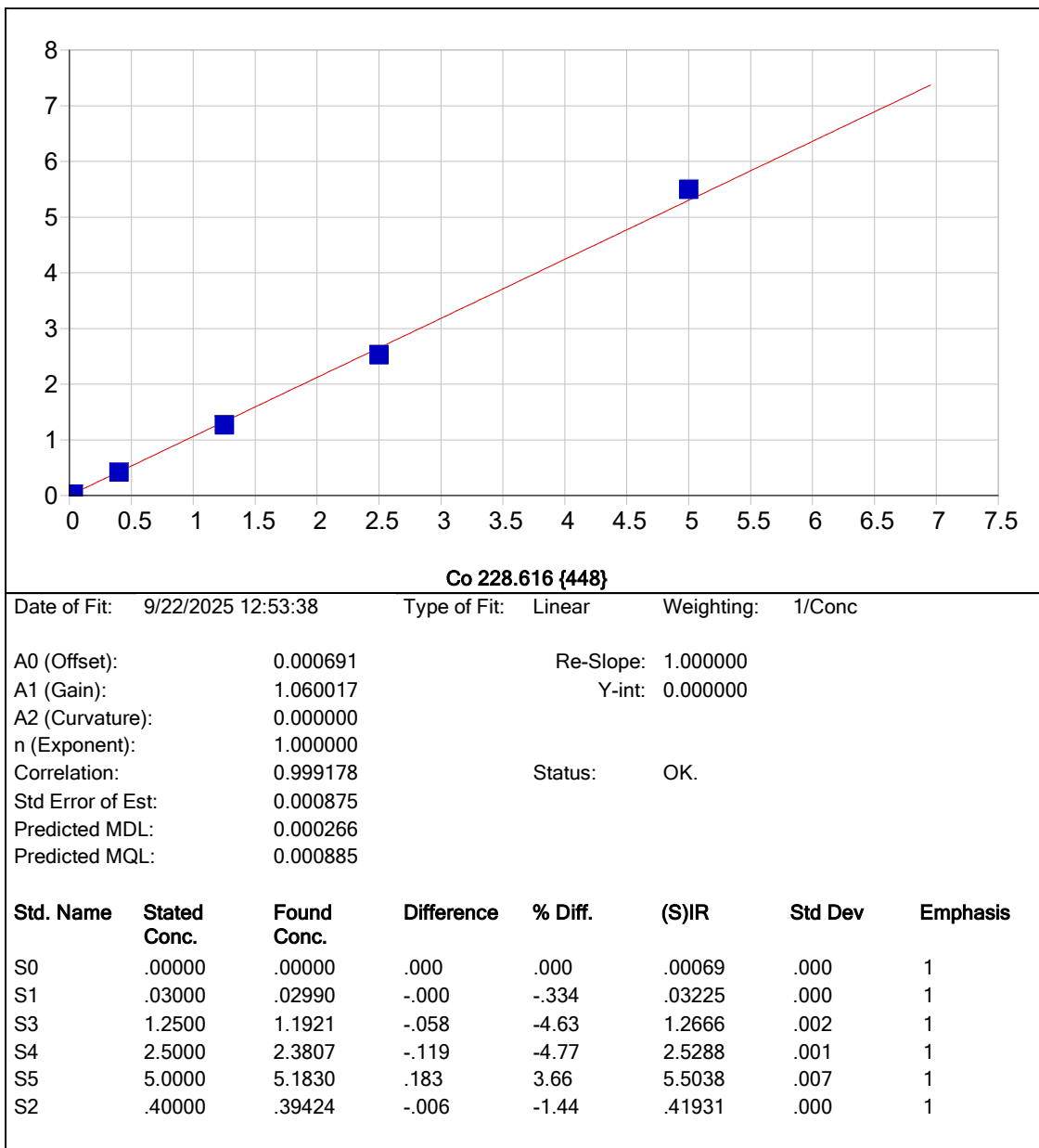


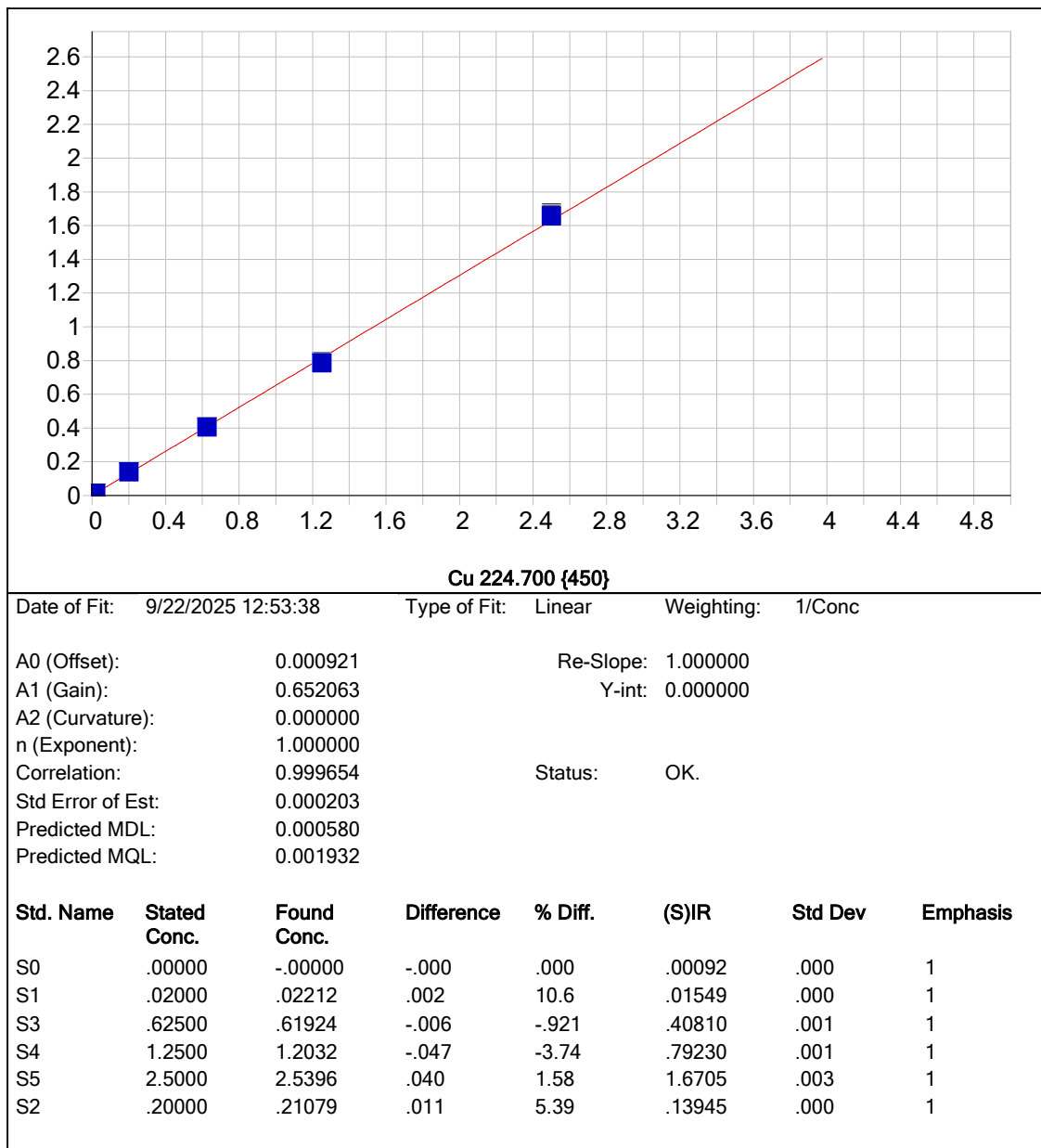


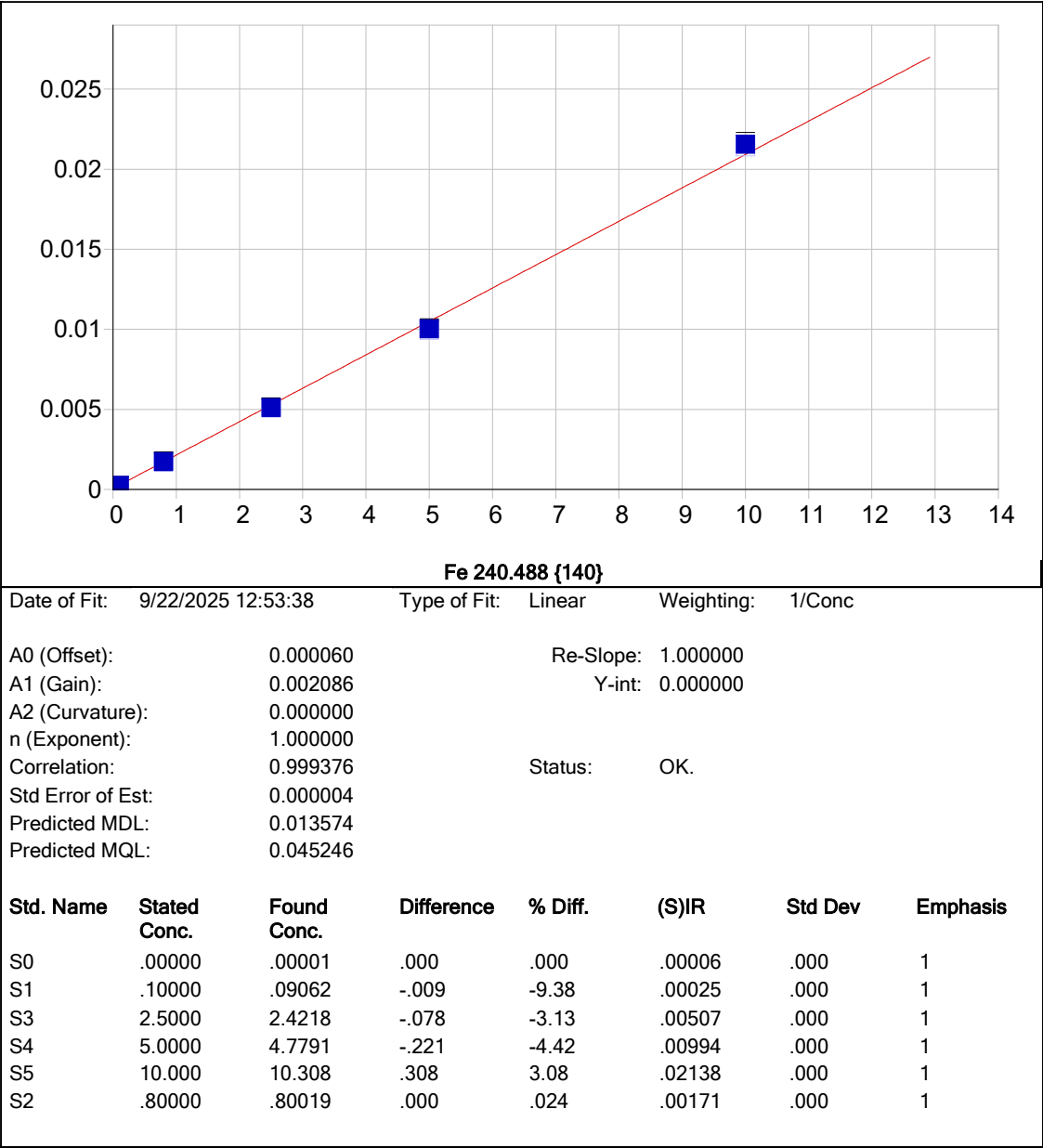


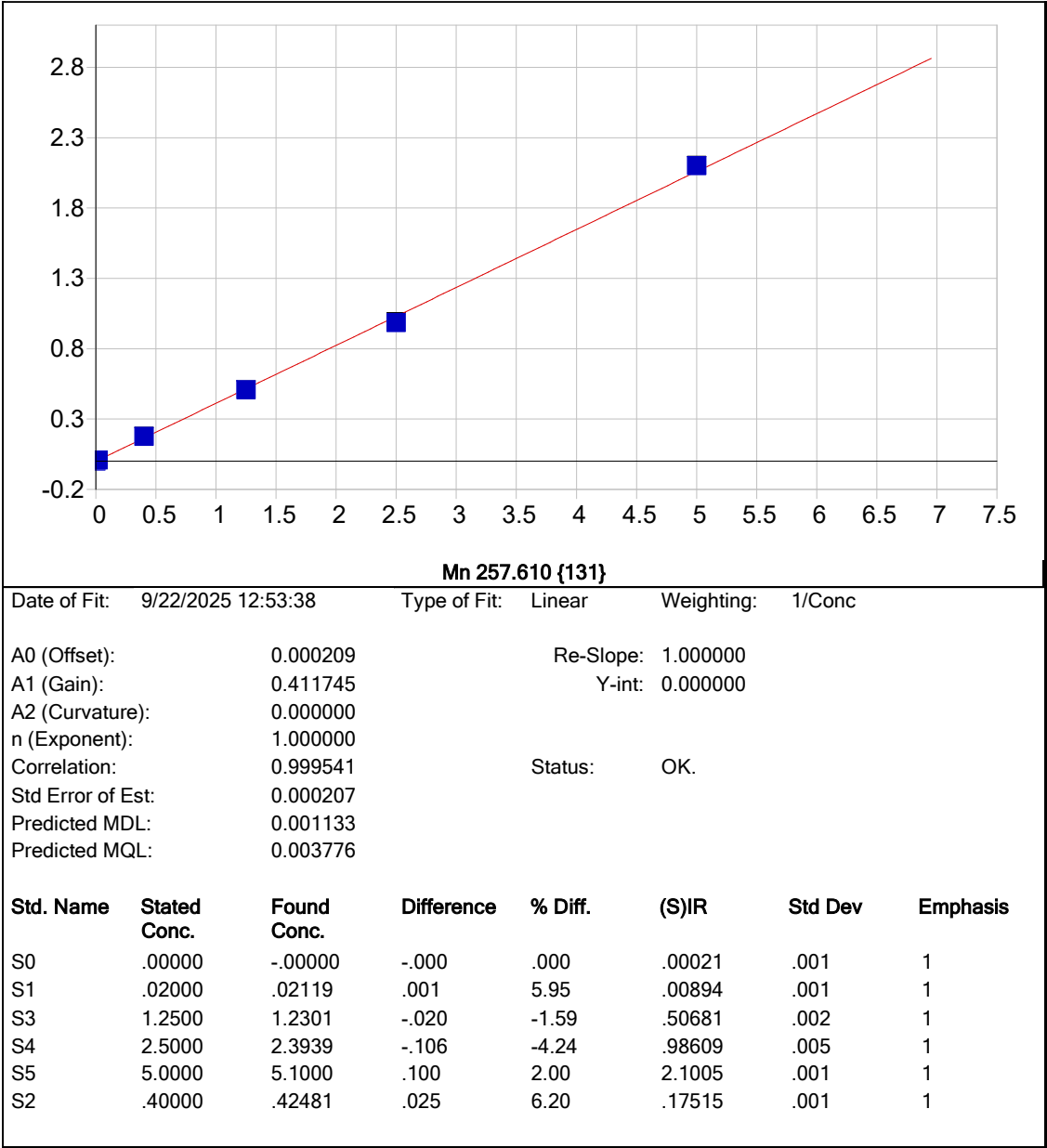


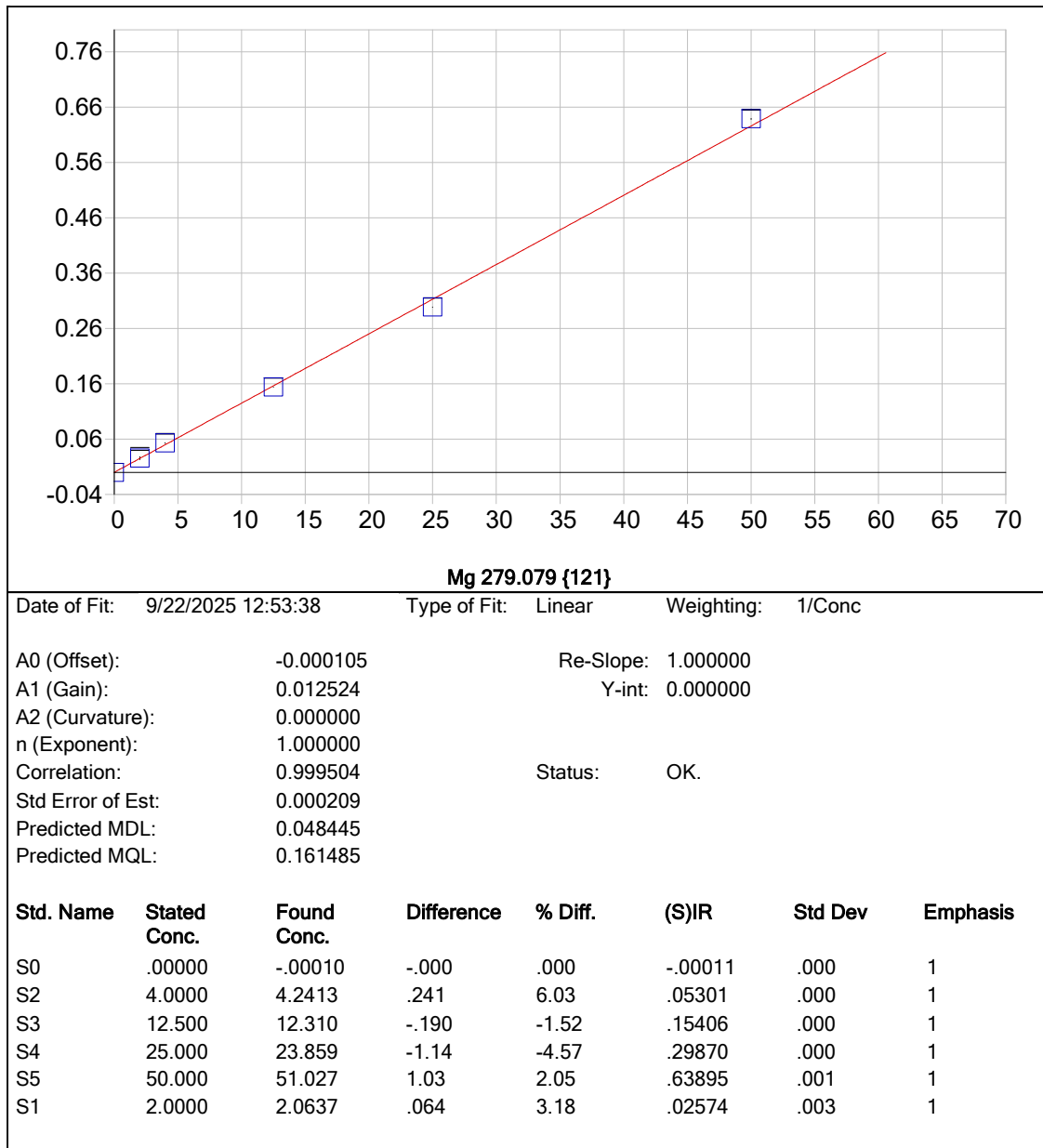


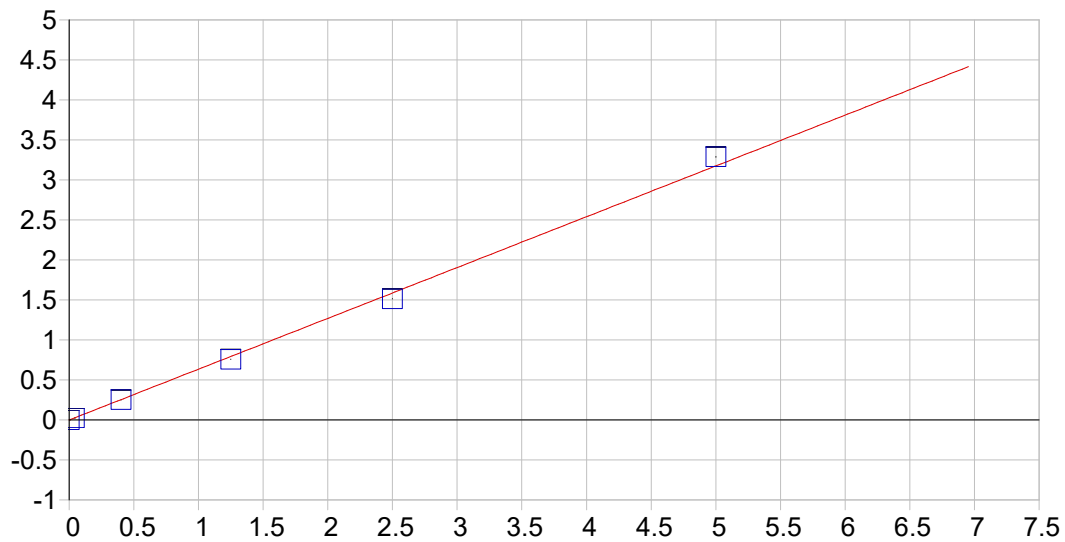










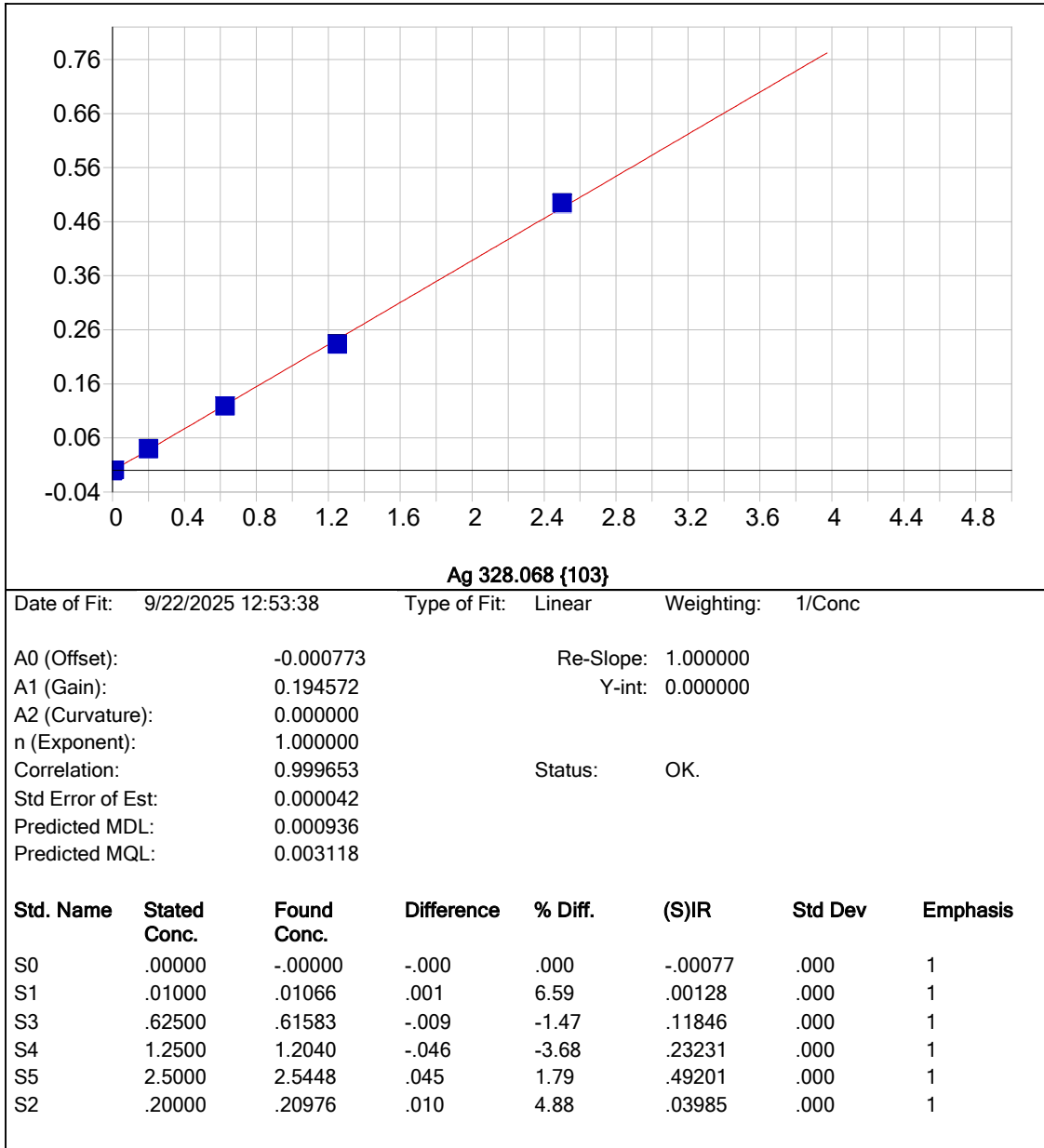


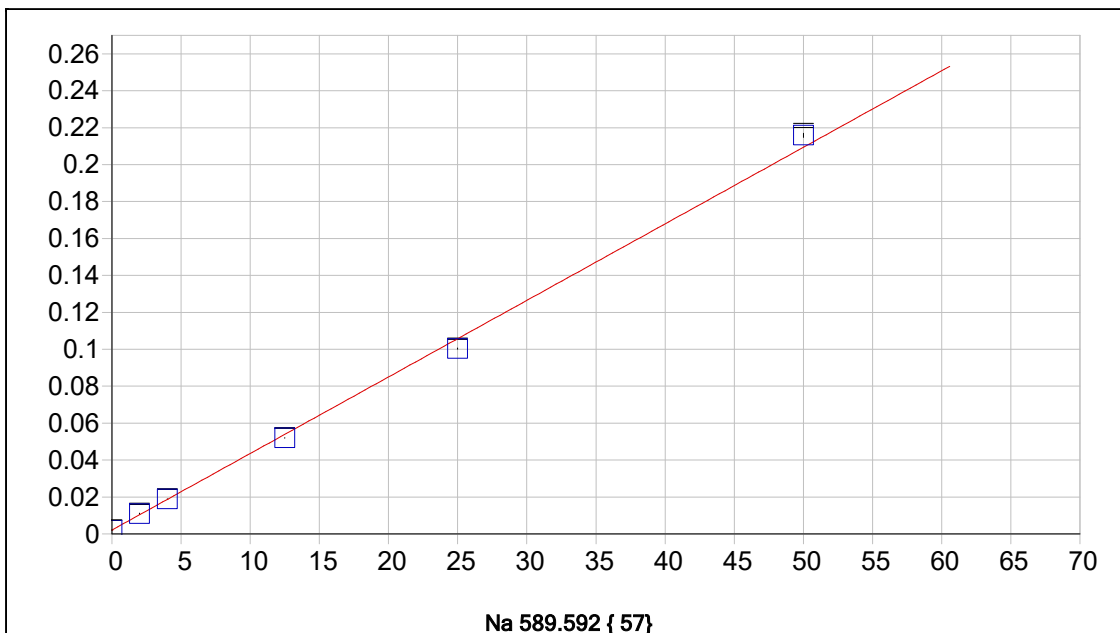
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Date of Fit: 9/22/2025 12:53:38 Type of Fit: Linear Weighting: 1/Conc

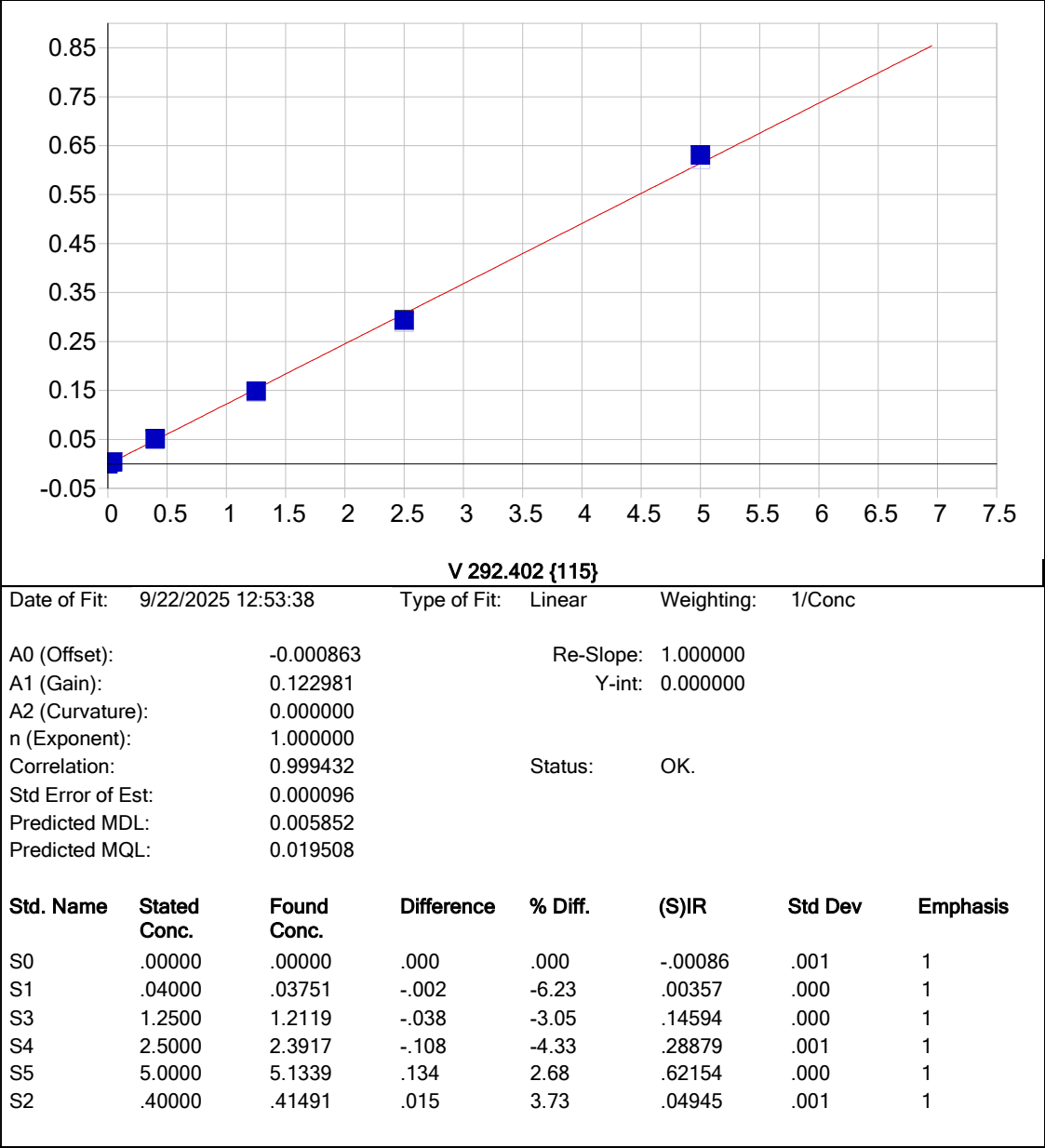
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A1 (Gain): 0.635121 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999227 Status: OK.
Std Error of Est: 0.000586
Predicted MDL: 0.000472
Predicted MQL: 0.001575

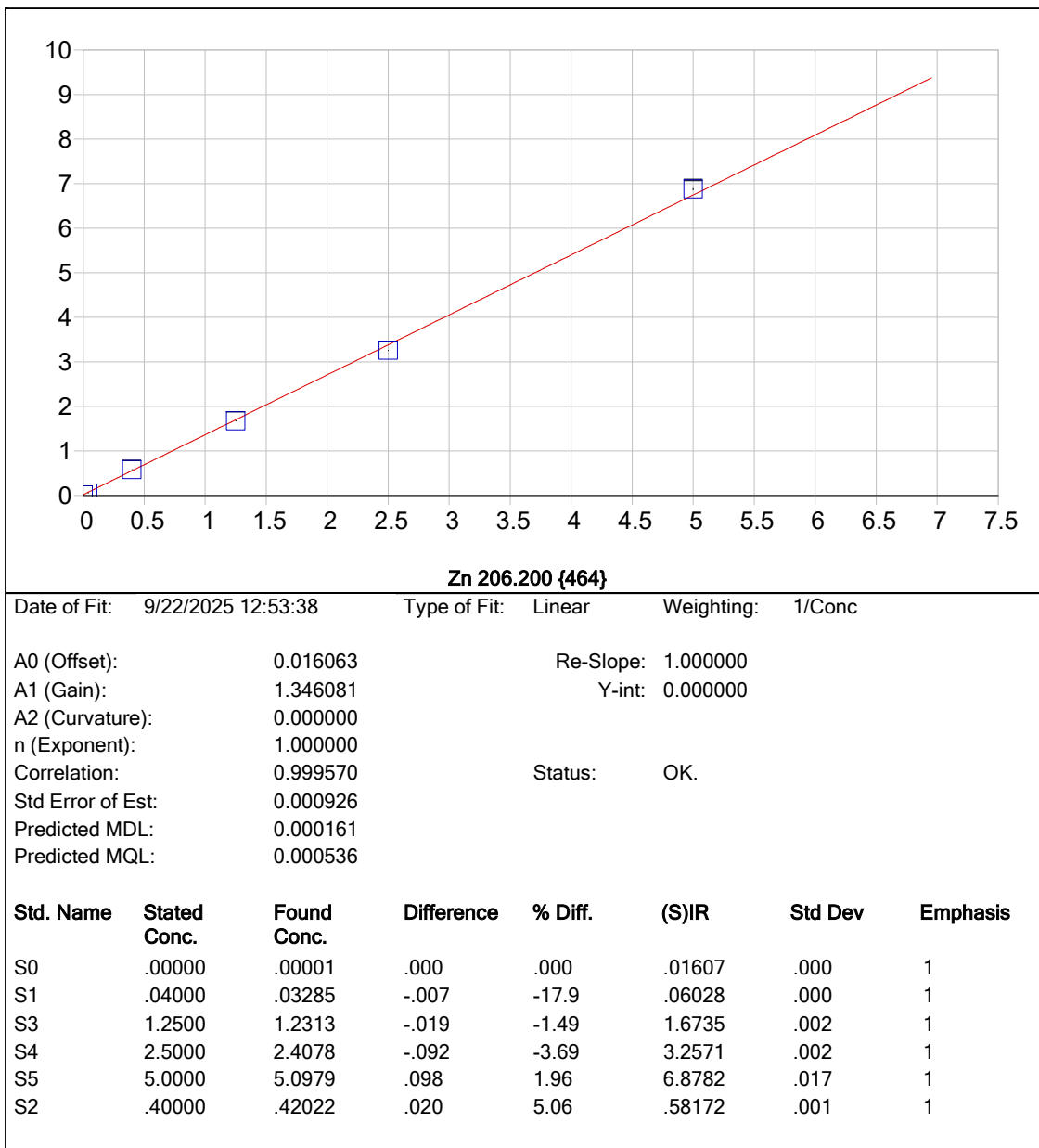
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S0	.00000	.00000	.000	.000	-.00087	.000	1
S1	.04000	.04022	.000	.538	.02467	.000	1
S3	1.2500	1.1934	-.057	-4.53	.75705	.002	1
S4	2.5000	2.3844	-.116	-4.62	1.5135	.001	1
S5	5.0000	5.1768	.177	3.54	3.2870	.004	1
S2	.40000	.39520	-.005	-1.20	.25013	.000	1

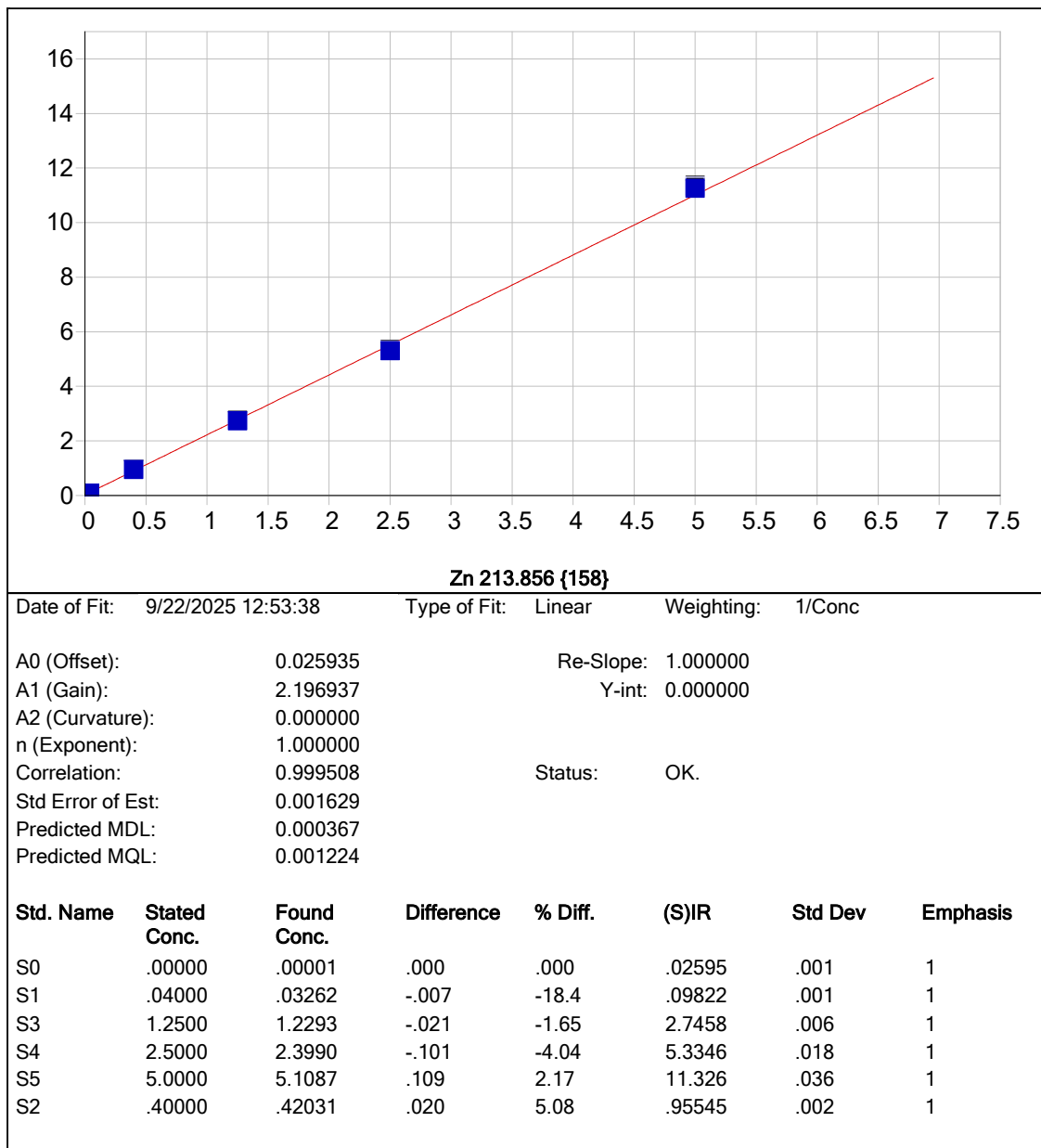


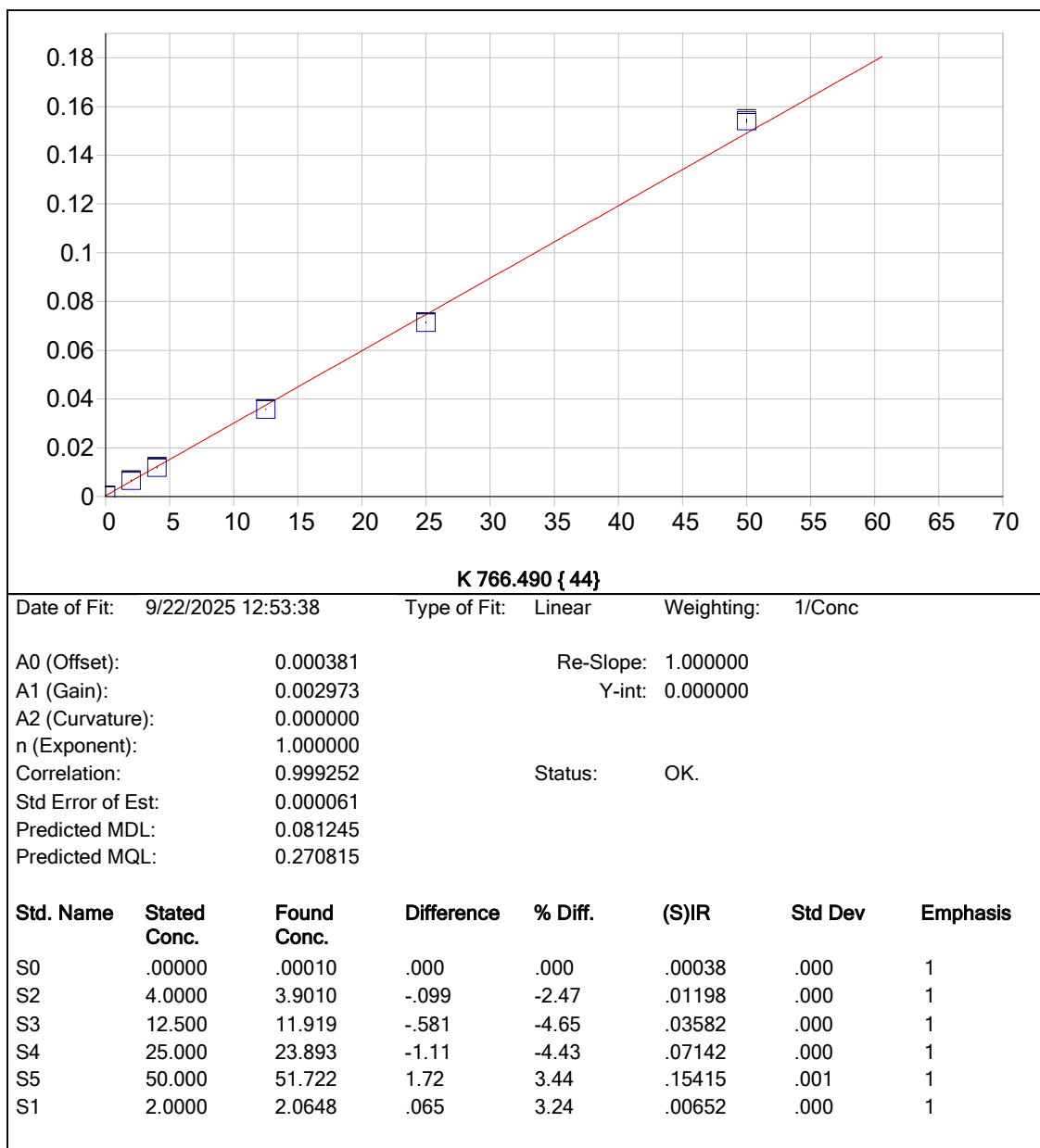


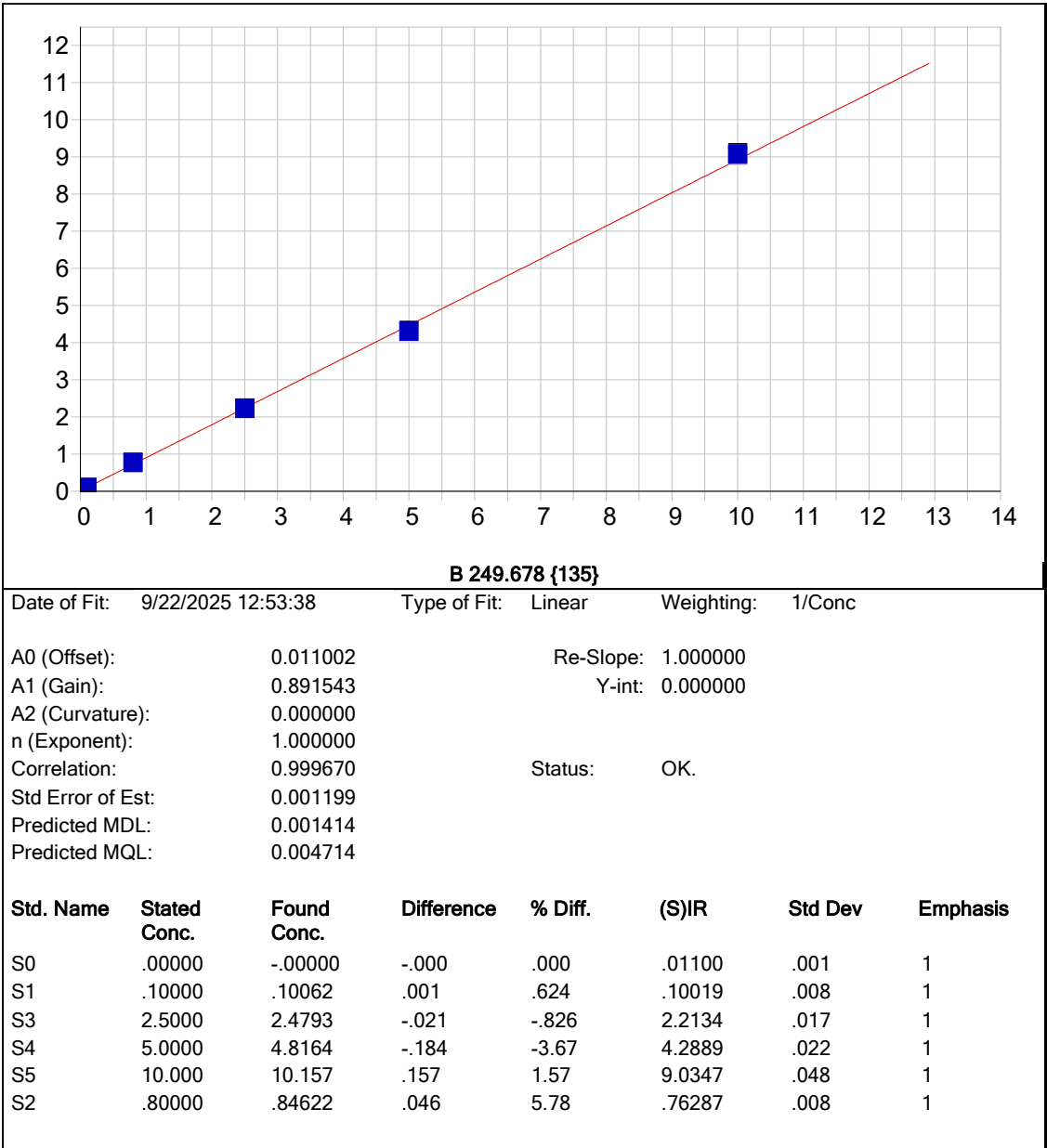
Date of Fit: 9/22/2025 12:53:38		Type of Fit: Linear		Weighting: 1/Conc			
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A1 (Gain): 0.004145		Y-int: 0.000000					
A2 (Curvature): 0.000000							
n (Exponent): 1.000000							
Correlation: 0.999239		Status: OK.					
Std Error of Est: 0.000086							
Predicted MDL: 0.047315							
Predicted MQL: 0.157718							
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00004	-.000	.000	.00210	.000	1
S2	4.0000	4.0600	.060	1.50	.01893	.000	1
S3	12.500	12.041	-.459	-3.67	.05201	.000	1
S4	25.000	23.703	-1.30	-5.19	.10035	.000	1
S5	50.000	51.572	1.57	3.14	.21587	.001	1
S1	2.0000	2.1250	.125	6.25	.01091	.000	1





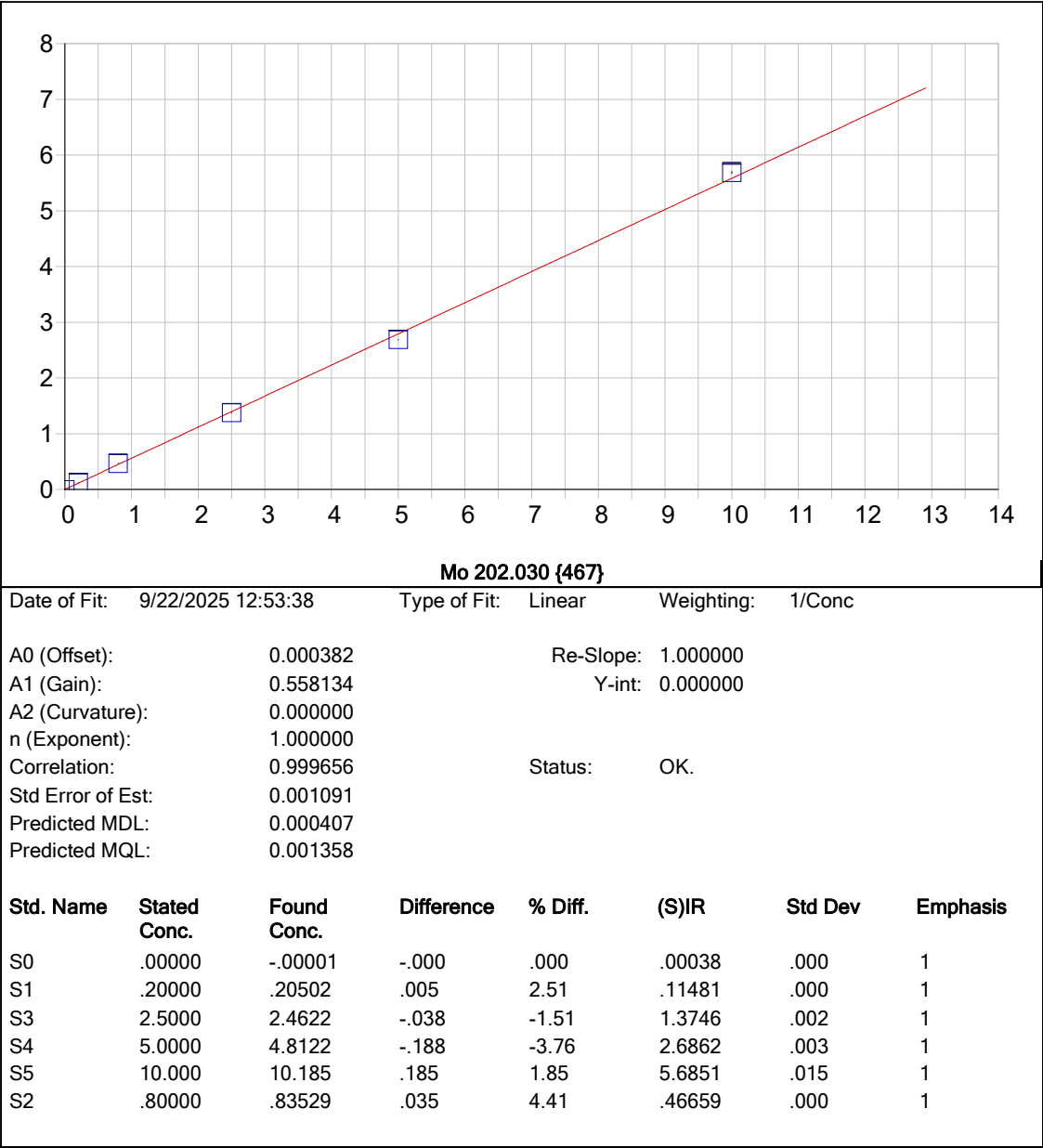


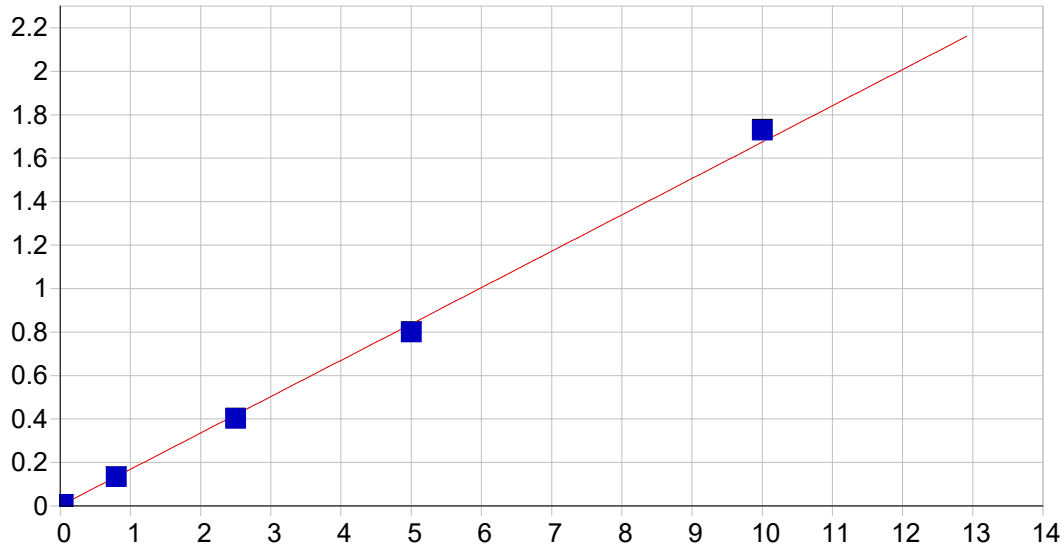




Date of Fit: 9/22/2025 12:53:38 Type of Fit: Linear Weighting: 1/Conc

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A1 (Gain): 0.891543 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999670 Status: OK.
Std Error of Est: 0.001199
Predicted MDL: 0.001414
Predicted MQL: 0.004714



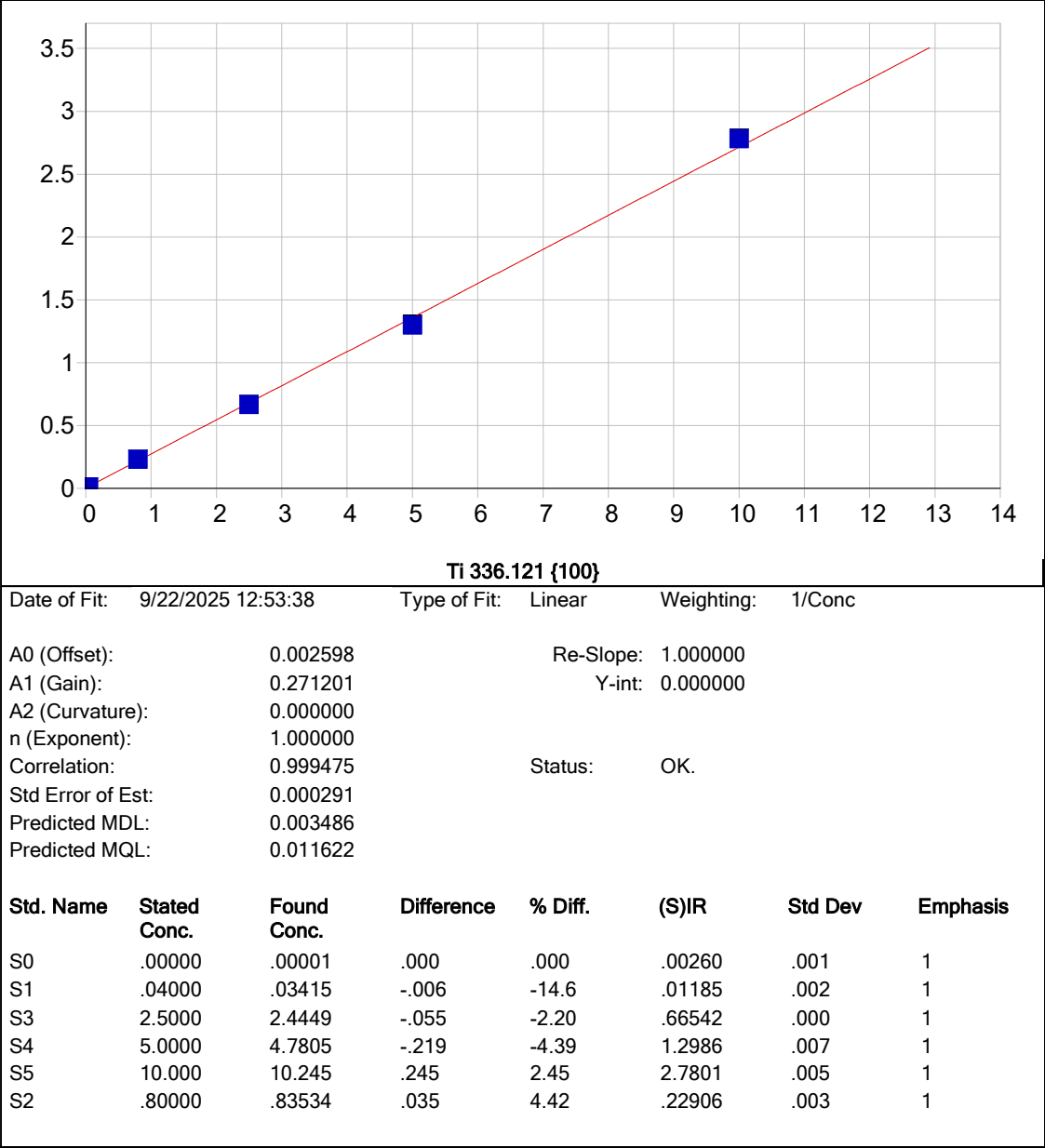


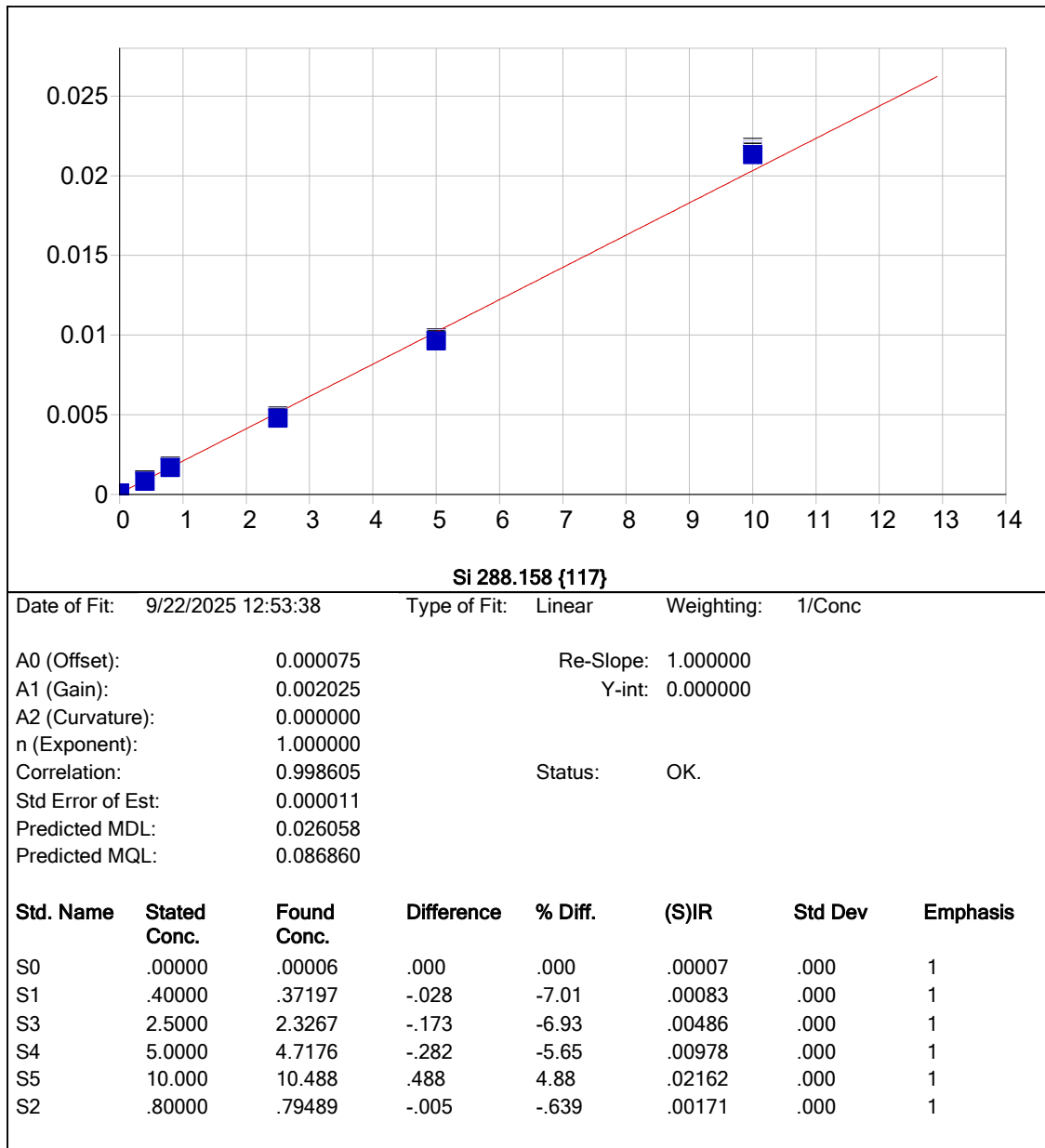
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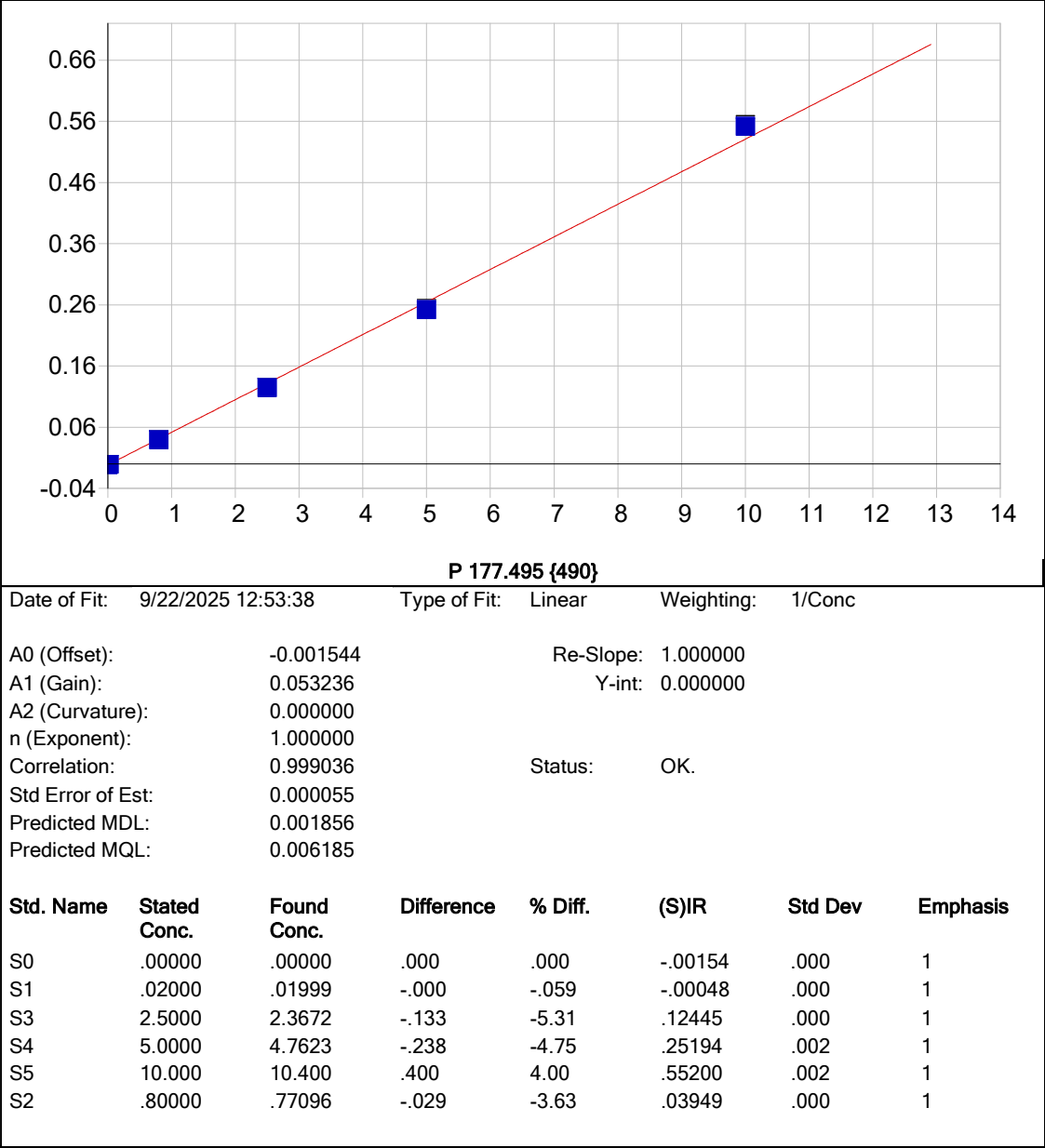
Date of Fit: 9/22/2025 12:53:38 Type of Fit: Linear Weighting: 1/Conc

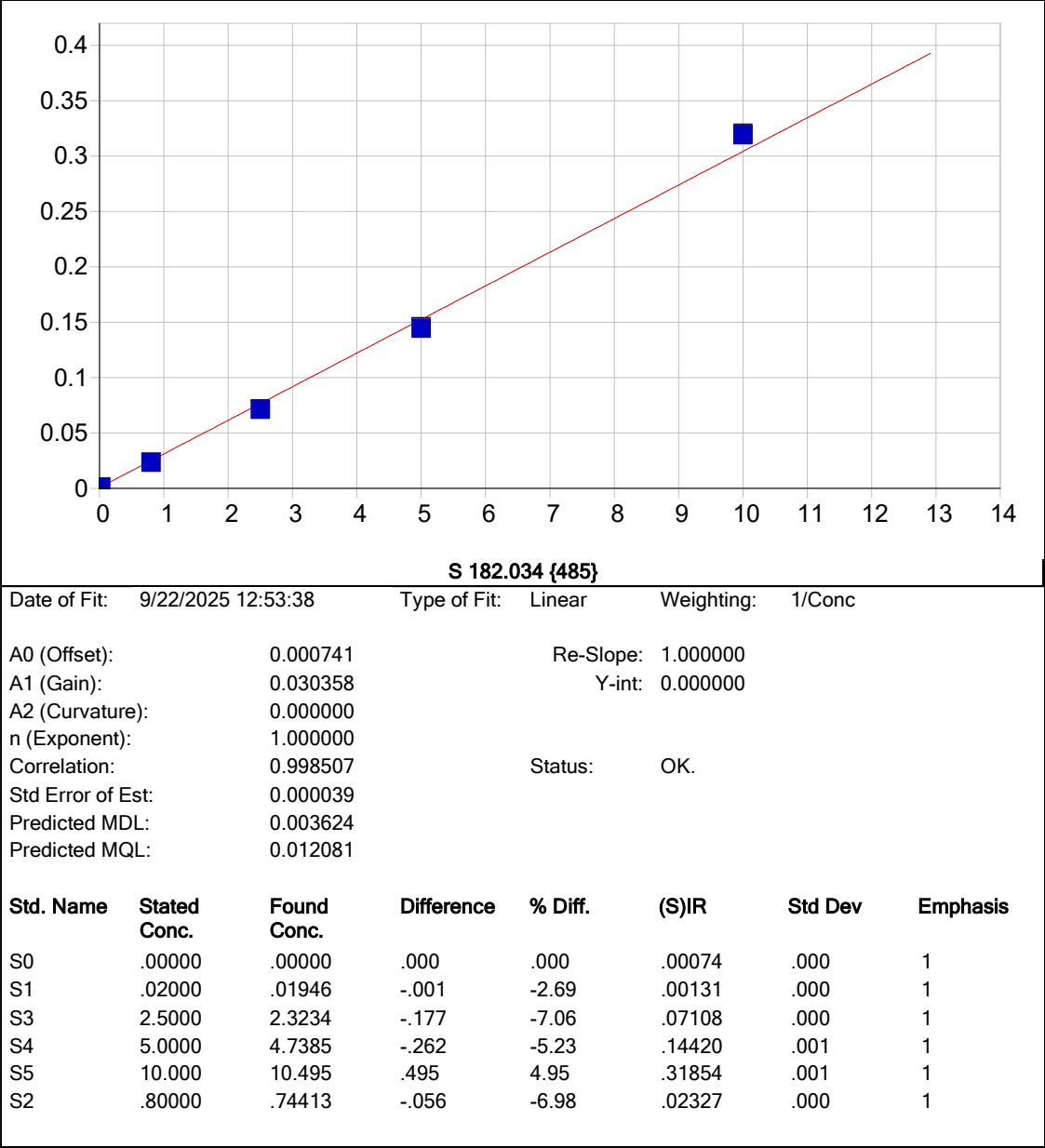
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A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999318 Status: OK.
Std Error of Est: 0.000205
Predicted MDL: 0.000757
Predicted MQL: 0.002522

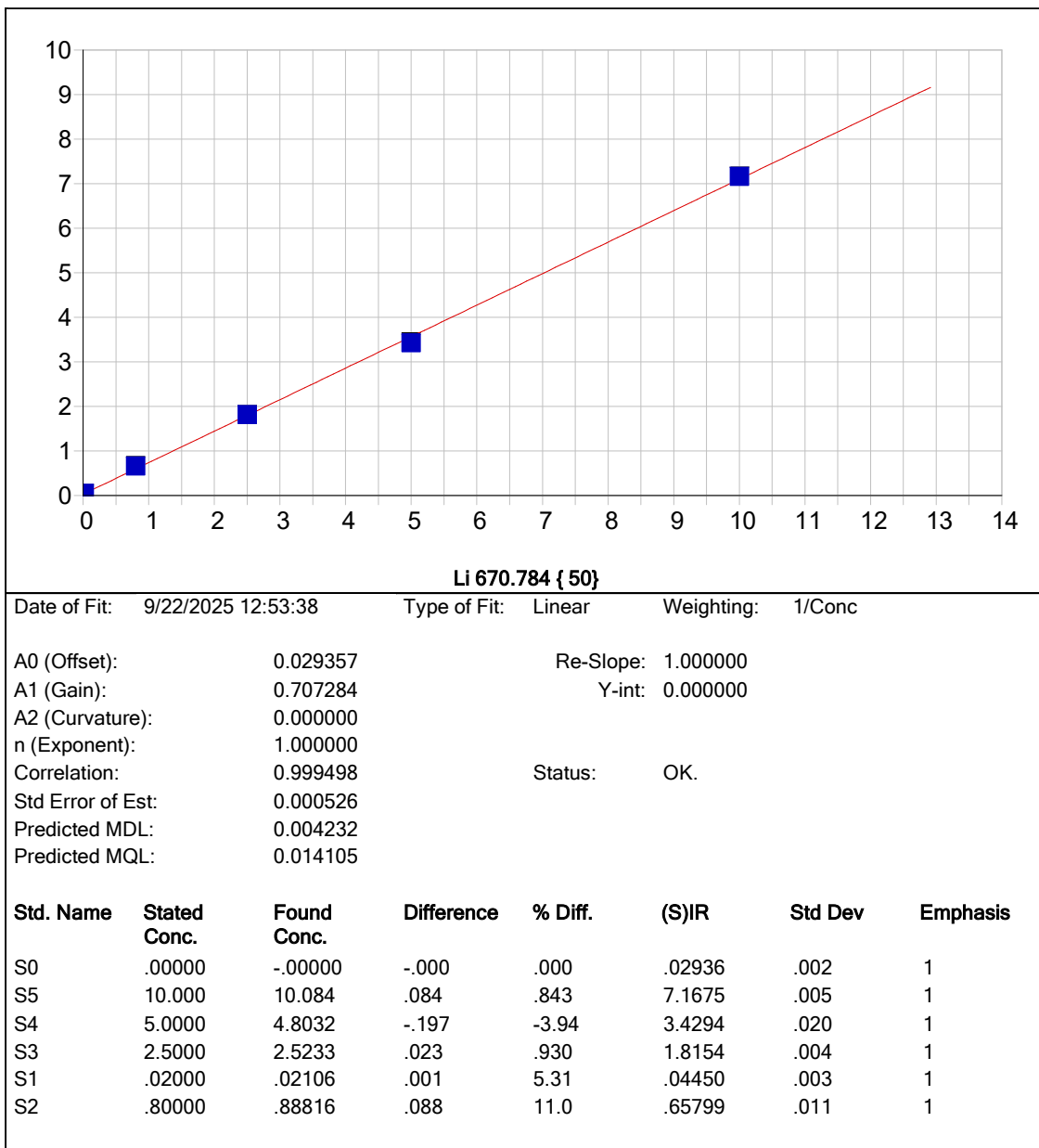
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00084	.000	1
S1	.04000	.03797	-.002	-5.08	.00718	.000	1
S3	2.5000	2.4009	-.099	-3.96	.40205	.001	1
S4	5.0000	4.7760	-.224	-4.48	.79894	.003	1
S5	10.000	10.330	.330	3.30	1.7272	.005	1
S2	.80000	.79518	-.005	-.602	.13372	.000	1

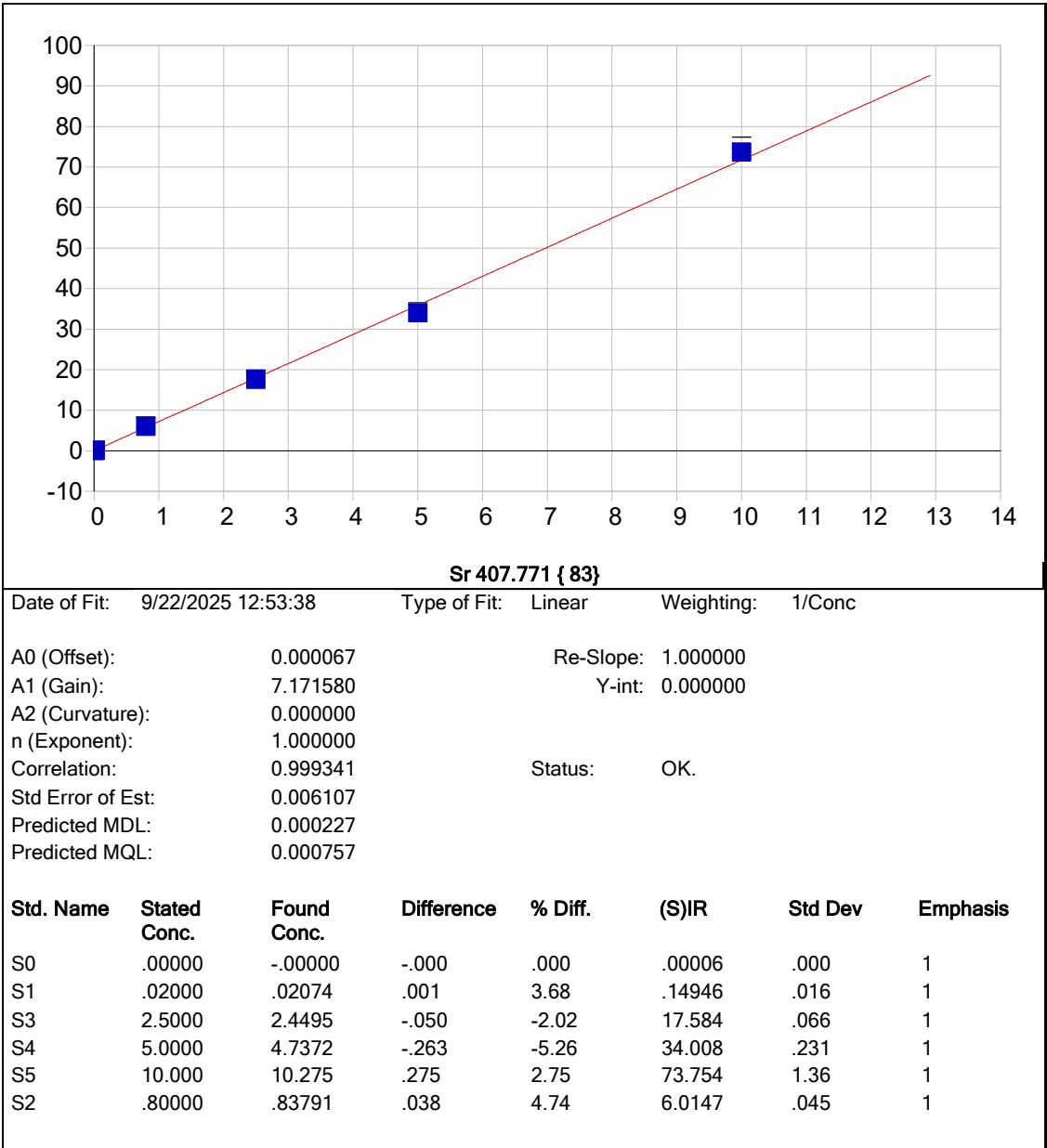


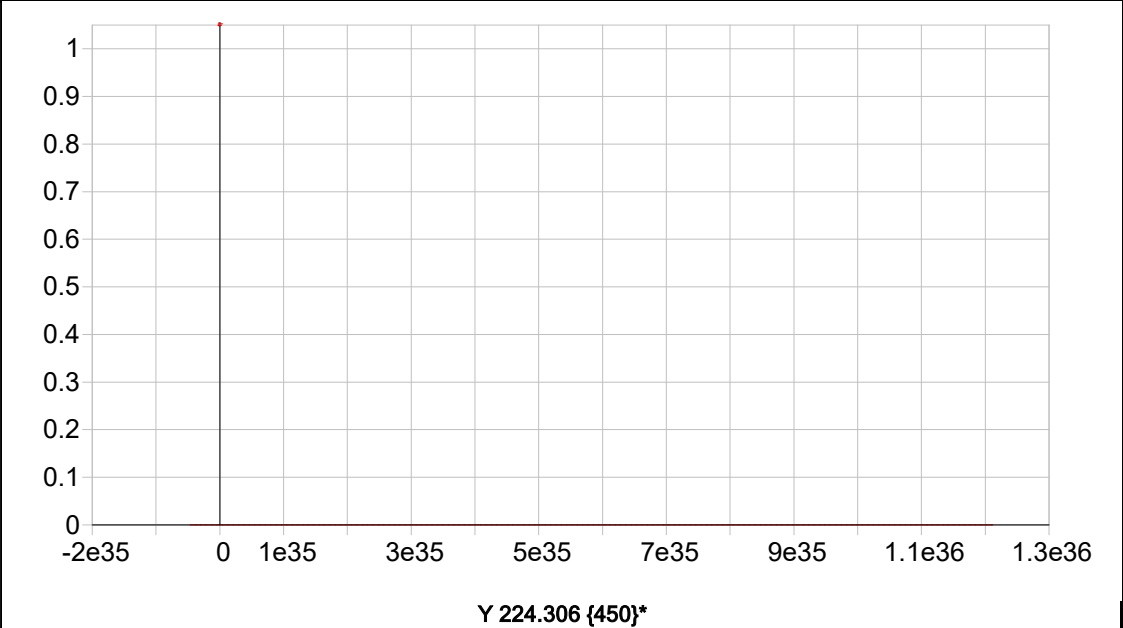






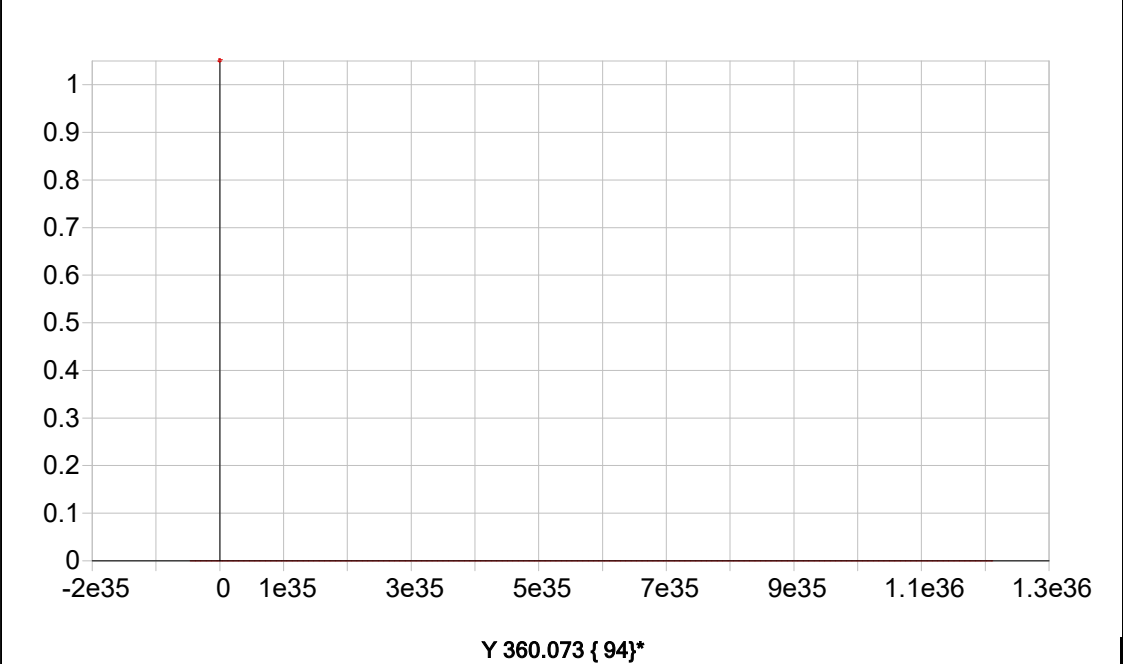




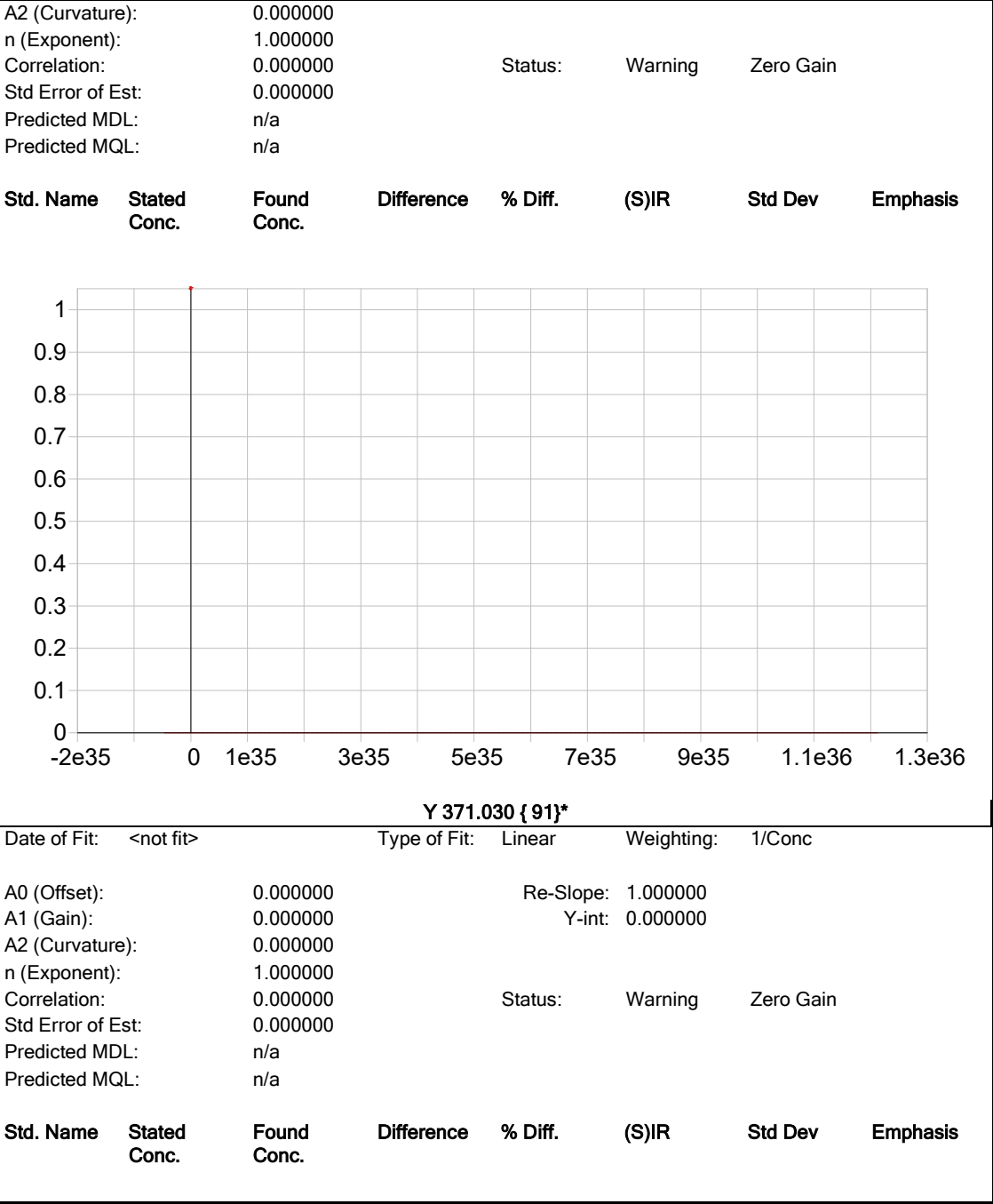


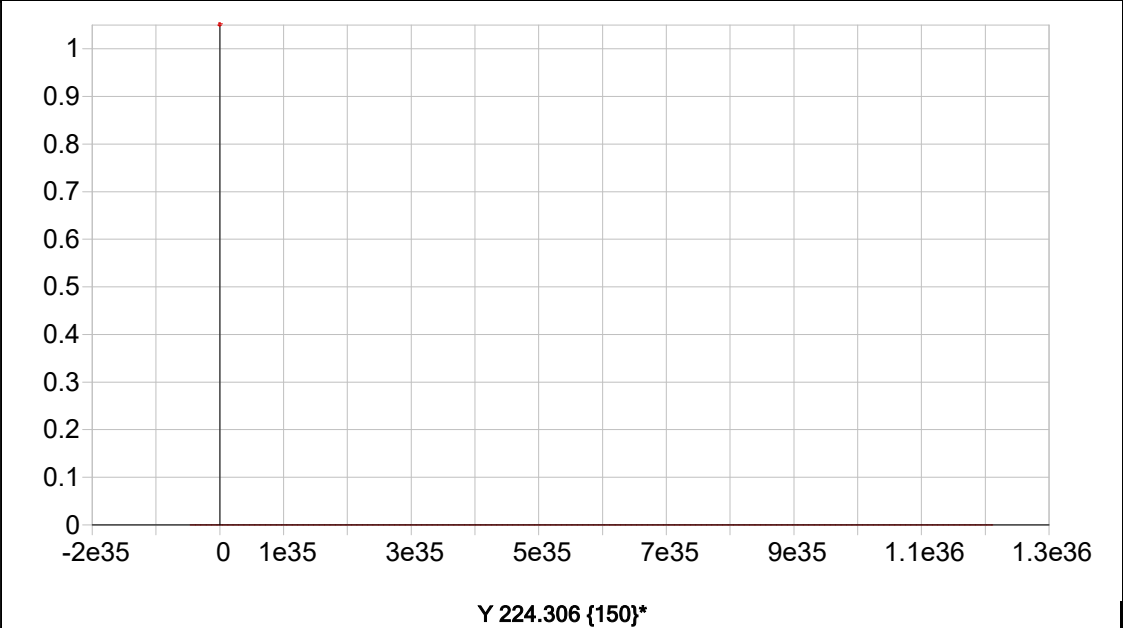
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A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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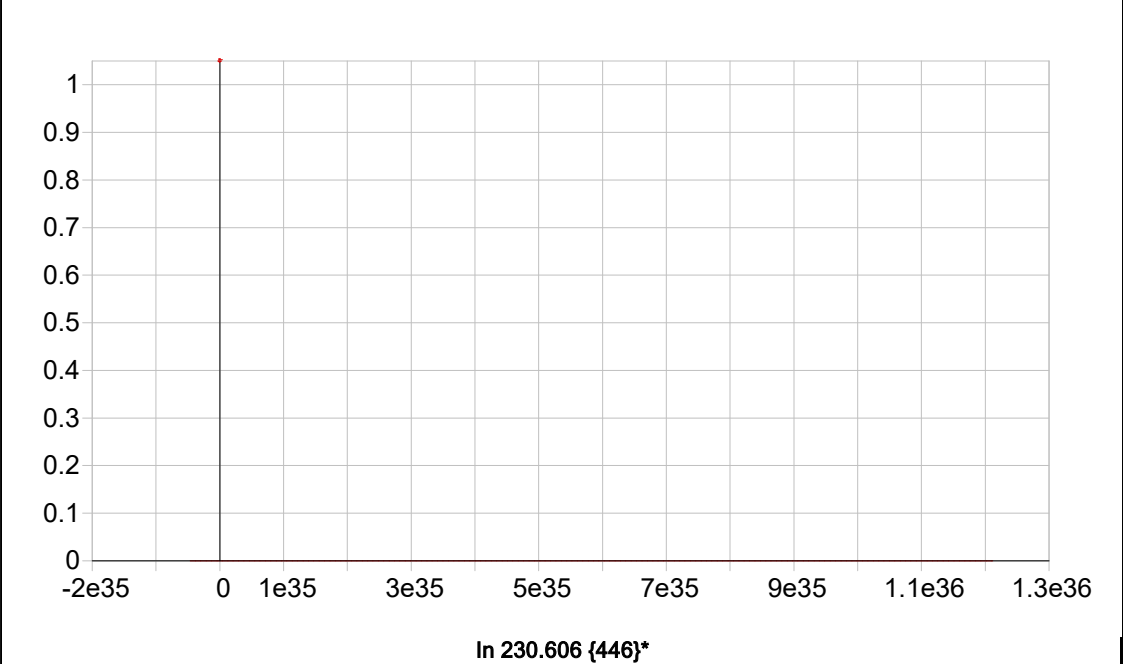
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
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A1 (Gain):	0.000000	Y-int:	0.000000		





Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000	Re-Slope:	1.000000		
A1 (Gain):	0.000000	Y-int:	0.000000		

A2 (Curvature):		0.000000		Status:	Warning	Zero Gain	
n (Exponent):		1.000000					
Correlation:		0.000000					
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

SOP ID : M200.7-Trace Elements-22

SDG No : N/A

Matrix : WATER

Pipette ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 09/22/2025 Time : 12:35 Temp : 95 °C

End Digest Date: 09/22/2025 Time : 15:40 Temp : 95 °C

Digestion tube ID: M5595 14:00 sj
09/23/25

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKS

Supervisor Signature: [Signature]

Temp : 1. 95°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6180
LFS-2	0.25	M6181
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#50 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/22/25 16:40 14:05	SKS met dig Preparation Group	[Signature] (to Clark as) Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB169779BL	PBW779	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB169779BS	LCS779	<2	50	25	Colorless	Colorless	Clear	Clear	M6180,M6181	2
Q3144-01	MENS BATHROOM 1ST RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
Q3144-02	MEN BATHROOM 2ND RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
Q3144-03	CLASSROOM I 1ST RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
Q3144-04	CLASSROOM I 2ND RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	6
Q3144-05	LADIES BATHROOM 1ST RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
Q3144-06	LADIES BATHROOM 2ND RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	8
Q3144-07	FOUNTAIN 1ST RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	9
Q3144-08	FOUNTAIN 2ND RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	10
Q3144-09	CLASSROOM 4 1ST RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	11
Q3144-10	CLASSROOM 4 2ND RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	12
Q3144-11	CLASSROOM I BATHROOM 1ST RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	13
Q3144-12	CLASSROOM I BATHROOM 2ND RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	14
Q3144-13	CLASSROOM 2 SINK 1ST RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	15
Q3144-14	CLASSROOM 2 SINK 2ND RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	16
Q3144-15	CLASSROOM 2 BATHROOM 1ST RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	17
Q3144-16	CLASSROOM 2 BATHROOM 2ND RUN	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	18
Q3148-01	001 WILLETS PT BLVD (SEP)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	19
Q3148-02	002 35TH AVE(SEP)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	20
Q3149-01	001 WILLETS PT BLVD (AUG)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	21
Q3149-02	002 35TH AVE(AUG)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	22
Q3149-02MS	002 35TH AVE(AUG)MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6180,M6181	24
Q3149-02MSD	002 35TH AVE(AUG)MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6180,M6181	25
Q3149-02DUP	002 35TH AVE(AUG)DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	23

WORKLIST(Hardcopy Internal Chain)

Worklist Name : PB169779

Worklist ID : 191999

Department : Digestion

Date : 09-22-2025 11:54:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3144-01	Mens Bathroom 1st Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-02	Men Bathroom 2nd Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-03	Classroom 1 1st Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-04	Classroom 1 2nd Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-05	Ladies Bathroom 1st Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-06	Ladies Bathroom 2nd Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-07	Fountain 1st Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-08	Fountain 2nd Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-09	Classroom 4 1st Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-10	Classroom 4 2nd Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-11	Classroom 1 Bathroom 1st Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-12	Classroom 1 Bathroom 2nd Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-13	Classroom 2 Sink 1st Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-14	Classroom 2 Sink 2nd Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-15	Classroom 2 Bathroom 1st Run	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3144-16	Classroom 2 Bathroom 2nd Ru	Water	Metals Group3	1:1 HNO3 to pH < 2	SAFE04	J22	09/18/2025	200.7
Q3148-01	001 Willets Pt Blvd (Sep))	Water	Metals Group 10	1:1 HNO3 to pH < 2	TULL01	J23	09/18/2025	200.7
Q3148-02	002 35th Ave(Sep)	Water	Metals Group 10	1:1 HNO3 to pH < 2	TULL01	J23	09/18/2025	200.7
Q3149-01	001 Willets Pt Blvd (Aug)	Water	Metals Group 10	1:1 HNO3 to pH < 2	TULL01	J33	09/18/2025	200.7
Q3149-02	002 35th Ave(Aug)	Water	Metals Group 10	1:1 HNO3 to pH < 2	TULL01	J33	09/18/2025	200.7

Date/Time 09/22/25 12:10

Raw Sample Received by: Sty met dig

Raw Sample Relinquished by: CPC

Date/Time 09/22/25 13:10

Raw Sample Received by: CPC

Raw Sample Relinquished by: Sty met dig

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137271

Review By	jaswal	Review On	9/24/2025 11:00:17 AM
Supervise By	JANVI	Supervise On	9/24/2025 11:10:27 AM
STD. NAME	STD REF.#		
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032		
ICV Standard	MP87039,MP87035		
CCV Standard	MP87042		
ICSA Standard	MP87040,MP87048		
CRI Standard	MP87035		
LCS Standard			
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	09/22/25 12:06		Jaswal	OK
2	S1	S1	CAL2	09/22/25 12:10		Jaswal	OK
3	S2	S2	CAL3	09/22/25 12:14		Jaswal	OK
4	S3	S3	CAL4	09/22/25 12:19		Jaswal	OK
5	S4	S4	CAL5	09/22/25 12:22		Jaswal	OK
6	S5	S5	CAL6	09/22/25 12:27		Jaswal	OK
7	ICV01	ICV01	ICV	09/22/25 12:31		Jaswal	OK
8	LLICV01	LLICV01	LLICV	09/22/25 12:48		Jaswal	OK
9	ICB01	ICB01	ICB	09/22/25 12:54		Jaswal	OK
10	CRI01	CRI01	CRDL	09/22/25 13:05		Jaswal	OK
11	ICSA01	ICSA01	ICSA	09/22/25 13:10		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	09/22/25 13:14		Jaswal	OK
13	ICSADL	ICSADL	ICSA	09/22/25 13:22		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	09/22/25 13:26		Jaswal	OK
15	CCV01	CCV01	CCV	09/22/25 13:36		Jaswal	OK
16	CCB01	CCB01	CCB	09/22/25 13:42		Jaswal	OK
17	LR-1	LR-1	HIGH STD	09/22/25 13:47		Jaswal	OK
18	LR-2	LR-2	HIGH STD	09/22/25 13:52		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137271

Review By	jaswal	Review On	9/24/2025 11:00:17 AM
Supervise By	JANVI	Supervise On	9/24/2025 11:10:27 AM
STD. NAME	STD REF.#		
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032		
ICV Standard	MP87039,MP87035		
CCV Standard	MP87042		
ICSA Standard	MP87040,MP87048		
CRI Standard	MP87035		
LCS Standard			
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049		

19	PB169779BS	PB169779BS	LCS	09/22/25 14:09		Jaswal	OK
20	PB169785BL	PB169785BL	MB	09/22/25 14:13		Jaswal	OK
21	PB169785BS	PB169785BS	LCS	09/22/25 14:17		Jaswal	OK
22	Q3144-01	Mens Bathroom 1St R	SAM	09/22/25 14:21		Jaswal	OK
23	Q3144-02	Men Bathroom 2nd R	SAM	09/22/25 14:25		Jaswal	OK
24	Q3144-03	Classroom I 1St Run	SAM	09/22/25 14:29		Jaswal	OK
25	PB169779BL	PB169779BL	MB	09/22/25 14:33		Jaswal	OK
26	CCV02	CCV02	CCV	09/22/25 14:48		Jaswal	OK
27	CCB02	CCB02	CCB	09/22/25 14:52		Jaswal	OK
28	Q3144-04	Classroom I 2nd Run	SAM	09/22/25 15:01		Jaswal	OK
29	Q3144-05	Ladies Bathroom 1St	SAM	09/22/25 15:05		Jaswal	OK
30	Q3144-06	Ladies Bathroom 2nd	SAM	09/22/25 15:09		Jaswal	OK
31	Q3144-07	Fountain 1St Run	SAM	09/22/25 15:14		Jaswal	OK
32	Q3144-08	Fountain 2nd Run	SAM	09/22/25 15:18		Jaswal	OK
33	Q3144-09	Classroom 4 1St Run	SAM	09/22/25 15:22		Jaswal	OK
34	Q3144-10	Classroom 4 2nd Run	SAM	09/22/25 15:26		Jaswal	OK
35	Q3144-11	Classroom I Bathroom	SAM	09/22/25 15:30		Jaswal	OK
36	Q3144-12	Classroom I Bathroom	SAM	09/22/25 15:34		Jaswal	OK
37	LR-3	LR-3	HIGH STD	09/22/25 15:41		Jaswal	OK
38	CCV03	CCV03	CCV	09/22/25 15:46		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137271

Review By	jaswal	Review On	9/24/2025 11:00:17 AM
Supervise By	JANVI	Supervise On	9/24/2025 11:10:27 AM
STD. NAME	STD REF.#		
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032		
ICV Standard	MP87039,MP87035		
CCV Standard	MP87042		
ICSA Standard	MP87040,MP87048		
CRI Standard	MP87035		
LCS Standard			
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049		

39	CCB03	CCB03	CCB	09/22/25 15:50		Jaswal	OK
40	Q3144-13	Classroom 2 Sink 1St	SAM	09/22/25 15:54		Jaswal	OK
41	Q3144-14	Classroom 2 Sink 2nd	SAM	09/22/25 15:58		Jaswal	OK
42	Q3144-15	Classroom 2 Bathroom	SAM	09/22/25 16:02		Jaswal	OK
43	Q3144-16	Classroom 2 Bathroom	SAM	09/22/25 16:06		Jaswal	OK
44	Q3148-01	001 Willets Pt Blvd (S	SAM	09/22/25 16:11		Jaswal	OK
45	Q3148-02	002 35th Ave(Sep)	SAM	09/22/25 16:15		Jaswal	OK
46	Q3149-01	001 Willets Pt Blvd (A	SAM	09/22/25 16:19		Jaswal	OK
47	Q3149-02	002 35th Ave(Aug)	SAM	09/22/25 16:23		Jaswal	OK
48	CCV04	CCV04	CCV	09/22/25 16:27		Jaswal	OK
49	CCB04	CCB04	CCB	09/22/25 16:31		Jaswal	OK
50	Q3149-02DUP	002 35th Ave(Aug)DU	DUP	09/22/25 16:35		Jaswal	OK
51	Q3149-02L	002 35th Ave(Aug)L	SD	09/22/25 16:39		Jaswal	OK
52	CCV05	CCV05	CCV	09/22/25 16:43		Jaswal	OK
53	CCB05	CCB05	CCB	09/22/25 16:47		Jaswal	OK
54	Q3149-02MS	002 35th Ave(Aug)MS	MS	09/22/25 16:51		Jaswal	OK
55	Q3149-02MSD	002 35th Ave(Aug)MS	MSD	09/22/25 16:55		Jaswal	OK
56	Q3149-02A	002 35th Ave(Aug)A	PS	09/22/25 16:59	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
57	Q3158-01	EFFLUENT-DAY-1-MI	SAM	09/22/25 17:03	Not Use	Jaswal	Not Ok

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137271

Review By	jaswal	Review On	9/24/2025 11:00:17 AM
Supervise By	JANVI	Supervise On	9/24/2025 11:10:27 AM
STD. NAME	STD REF.#		
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032		
ICV Standard	MP87039,MP87035		
CCV Standard	MP87042		
ICSA Standard	MP87040,MP87048		
CRI Standard	MP87035		
LCS Standard			
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049		

58	Q2902-04	OUTFALL-DSN-002	SAM	09/22/25 17:07		Jaswal	OK
59	Q2902-04DUP	OUTFALL-DSN-002D	DUP	09/22/25 17:12		Jaswal	OK
60	PB169773BS	PB169773BS	LCS	09/22/25 17:33		Jaswal	OK
61	PB169773BL	PB169773BL	MB	09/22/25 17:37		Jaswal	OK
62	Q3133-02	VNJ-238	SAM	09/22/25 17:41		Jaswal	OK
63	Q3133-04	VNJ-222	SAM	09/22/25 17:45		Jaswal	OK
64	CCV06	CCV06	CCV	09/22/25 17:49		Jaswal	OK
65	CCB06	CCB06	CCB	09/22/25 17:53		Jaswal	OK
66	Q3133-06	361	SAM	09/22/25 17:57		Jaswal	OK
67	Q3133-08	VNJ-210	SAM	09/22/25 18:02		Jaswal	OK
68	Q3136-01	34922	SAM	09/22/25 18:06		Jaswal	OK
69	Q3136-02	34923	SAM	09/22/25 18:10		Jaswal	OK
70	Q3136-03	34924	SAM	09/22/25 18:14		Jaswal	OK
71	Q3136-04	34925	SAM	09/22/25 18:18		Jaswal	OK
72	Q3136-05	34926	SAM	09/22/25 18:23		Jaswal	OK
73	Q3138-08	MOO-25-0239-0241	SAM	09/22/25 18:27		Jaswal	OK
74	Q3150-01	MER Rd Con Ed	SAM	09/22/25 18:31		Jaswal	OK
75	Q3150-03	Mid Site Grid 5-7	SAM	09/22/25 18:35		Jaswal	OK
76	CCV07	CCV07	CCV	09/22/25 18:49		Jaswal	OK
77	CCB07	CCB07	CCB	09/22/25 19:08		Jaswal	OK

Prep Standard - Chemical Standard Summary

Order ID : Q3148

Test : Metals Group 10

Prepbatch ID : PB169779,

Sequence ID/Qc Batch ID: LB137271, LB137271,

Standard ID :
MP85156,

Chemical ID :
M6151, M6158, M6180, M6181, W3112,

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipettelID</u>	<u>Supervised By</u>
170	1:1HCL	MP85156	04/07/2025	10/08/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 04/07/2025
<u>FROM</u>	1250.00000ml of M6151 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	10/09/2025	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	W2-MEB752149	02/05/2026	08/06/2025 / Janvi	07/22/2025 / Janvi	M6180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	V2-MEB7433480	02/05/2026	08/06/2025 / Janvi	07/22/2025 / Janvi	M6181

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in cursive script that reads 'Jamie Ethier'.
Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™



R- 0210212025

m - 6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantorsTM**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

 **avantor™**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
------	---------------	--------

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	W2-MEB752149
Matrix:	5% (v/v) HNO ₃

M6180
R-37/22/23

Value / Analyte(s):	1 000 µg/mL ea:	
	Potassium,	
	600 µg/mL ea:	
	Phosphorus,	
	300 µg/mL ea:	
	Sodium,	Iron,
	200 µg/mL ea:	
	Magnesium,	Aluminum,
	Cerium,	Selenium,
	Thallium,	
	100 µg/mL ea:	
	Lead,	Calcium,
	80 µg/mL ea:	
	Arsenic,	
	70 µg/mL ea:	
	Mercury,	
	50 µg/mL ea:	
	Nickel,	
	40 µg/mL ea:	
	Chromium,	
	30 µg/mL ea:	
	Copper,	Boron,
	Vanadium,	
	20 µg/mL ea:	
	Zinc,	Strontium,
	Barium,	Beryllium,
	Cadmium,	Cobalt,
	Manganese,	Lithium,
	7.5 µg/mL ea:	
	Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.2 ± 0.7 µg/mL	Arsenic, As	80.1 ± 0.5 µg/mL
Barium, Ba	20.02 ± 0.12 µg/mL	Beryllium, Be	20.02 ± 0.11 µg/mL
Boron, B	30.02 ± 0.15 µg/mL	Cadmium, Cd	20.04 ± 0.09 µg/mL
Calcium, Ca	100.1 ± 0.3 µg/mL	Cerium, Ce	200.2 ± 1.0 µg/mL
Chromium, Cr	40.02 ± 0.26 µg/mL	Cobalt, Co	20.03 ± 0.09 µg/mL
Copper, Cu	30.03 ± 0.13 µg/mL	Iron, Fe	300.3 ± 1.3 µg/mL
Lead, Pb	100.1 ± 0.5 µg/mL	Lithium, Li	20.03 ± 0.09 µg/mL
Magnesium, Mg	200.2 ± 0.9 µg/mL	Manganese, Mn	19.99 ± 0.09 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.05 ± 0.22 µg/mL
Phosphorus, P	600.5 ± 2.9 µg/mL	Potassium, K	1 001 ± 4 µg/mL
Selenium, Se	200.2 ± 1.1 µg/mL	Silver, Ag	7.52 ± 0.03 µg/mL
Sodium, Na	300.3 ± 1.3 µg/mL	Strontium, Sr	20.02 ± 0.10 µg/mL
Thallium, Tl	200.2 ± 1.0 µg/mL	Vanadium, V	30.02 ± 0.13 µg/mL
Zinc, Zn	20.05 ± 0.09 µg/mL		

Density: 1.037 g/mL (measured at 20 ± 5 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 25° C to minimize the effects of transpiration. Use at 20° ± 5° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; Info@inorganicventures.com;

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 08, 2025

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 08, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0

NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
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F: 540-585-3012
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M6181
R → 7/22/28

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: WW-LFS-2
Lot Number: V2-MEB743480
Matrix: 5% (v/v) HNO₃
tr. HF
Value / Analyte(s):
200 µg/mL ea:
Silica,
80 µg/mL ea:
Antimony,
70 µg/mL ea:
Tin,
40 µg/mL ea:
Molybdenum,
20 µg/mL ea:
Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.5 µg/mL	Molybdenum, Mo	40.05 ± 0.22 µg/mL
Silica, SiO ₂	200.3 ± 1.4 µg/mL	Tin, Sn	70.1 ± 0.4 µg/mL
Titanium, Ti	20.03 ± 0.12 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Sb	ICP Assay	3102a	140911
SiO ₂	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum (1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty (z)} = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum ((w_i)^2 (u_{\text{char } i})^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty (z)} = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 07, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 07, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Thomas Kozikowski
Stock VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 788-9222

www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q 3148

COC Number:

CLIENT INFORMATION

COMPANY: Tully Environmental Inc.

ADDRESS: 57 Seaview Blvd

CITY: Pt Washington STATE: NY ZIP: 11050

ATTENTION: Dean Devoe

PHONE: 718 446 7000

FAX:

PROJECT INFORMATION

PROJECT NAME: Transfer Station SPDES

PROJECT #: 252113

LOCATION:

PROJECT MANAGER:

E-MAIL:

PHONE:

FAX:

BILLING INFORMATION

BILL TO: Same

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

ANALYSIS

TSS	Cu, Fe, Pb								
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

DATA TURNAROUND INFORMATION

FAX: 5 DAYS*
HARD COPY: _____ DAYS*
EDD _____ DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

* RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format _____

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	001 Willets Pt Blvd (Sep)	W		X	9/18/25	11:30	2	X	X								
2.	002 35th Ave (Sep)	W		X	9/18/25	11:30	2	X	X								
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME Sep 18, 2025	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp. <u>18.3°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?
1. D Devoe		1.	Comments:
RELINQUISHED BY <u>[Signature]</u>	DATE/TIME <u>9/18/25</u>	RECEIVED BY <u>[Signature]</u>	
2.		2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3.		3.	

Page _____ of _____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY

From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Friday, September 19, 2025 11:01 AM
Subject: FW: SPDES and Harper Street
Attachments: Chain-Of-Custody-Chemtech - Transfer Station SPDES - Sep.xls; Chain-Of-Custody-Chemtech - Transfer Station SPDES - August.xls; Chain-Of-Custody-Chemtech - Harper Street - Sep.xls

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

From: Dean Devoe <DDevoe@tullyconstruction.com>
Sent: Thursday, September 18, 2025 3:29 PM
To: Yazmeen Gomez <yazmeen.gomez@alliancetg.com>
Subject: SPDES and Harper Street

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Hi Yazmeen – I didn't have VOC vials or enough metals bottles so I provided additional unpreserved bottles. Can you please transfer to the correct glassware? Also the Harper St soil is in a Ziploc so should be transferred to correct jars. Please expedite the August SPDES – the others can be standard TAT. Thank you Dean

Dean Devoe, PE
Tully Environmental Inc.
57 Seaview Blvd
Port Washington NY 11050
(718) 446 7000 x 298
Cell 917 417 1524

From: Dean Devoe <DDevoe@tullyconstruction.com>
Sent: Friday, September 19, 2025 1:01 PM
Subject: Re: melted ice

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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Friday, September 19, 2025 12:45:23 PM
To: Dean Devoe <DDevoe@tullyconstruction.com>
Subject: melted ice

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Good afternoon,

sample received with melted ice with Temp 18.3 cel on 9/19/2025 let us know how to proceed with analysis ?

Thanks & Regards,



Deepak Parmar
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com



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