

LAB CHRONICLE

OrderID:	Q2696	OrderDate:	7/25/2025 10:41:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2696-01	RW8-SP100-20250724	Water			07/24/25			07/25/25
			Metals Group4	6010D		07/28/25	07/29/25	
Q2696-02	RW8-SP303-20250724	Water			07/24/25			07/25/25
			Metals Group4	6010D		07/28/25	07/30/25	



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Hit Summary Sheet
SW-846

SDG No.:	Q2696	Order ID:	Q2696
Client:	Tetra Tech NUS, Inc.	Project ID:	NWIRP Bethpage 112G08005-WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW8-SP100-20250724								
Q2696-01	RW8-SP100-20250724	Water	Iron	757		11.7	40.0	50.0	ug/L
Client ID :	RW8-SP303-20250724								
Q2696-02	RW8-SP303-20250724	Water	Iron	85.8		11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/24/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/25/25
Client Sample ID:	RW8-SP100-20250724	SDG No.:	Q2696
Lab Sample ID:	Q2696-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	757		1	11.7	40.0	50.0	ug/L	07/28/25 12:20	07/29/25 15:44	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

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:	Tetra Tech NUS, Inc.	Date Collected:	07/24/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/25/25
Client Sample ID:	RW8-SP303-20250724	SDG No.:	Q2696
Lab Sample ID:	Q2696-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	85.8	J	1	11.7	40.0	50.0	ug/L	07/28/25 12:20	07/30/25 15:18	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

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



METAL CALIBRATION DATA



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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.
Contract: TETR06
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2696
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Iron	3950	4000	99	90 - 110	P	07/29/2025	12:20	LB136648

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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	Iron	107	100	107	80 - 120	P	07/29/2025	13:01	LB136648

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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	Iron	5240	5000	105	90 - 110	P	07/29/2025	14:21	LB136648
CCV02	Iron	4940	5000	99	90 - 110	P	07/29/2025	15:11	LB136648
CCV03	Iron	5020	5000	100	90 - 110	P	07/29/2025	16:14	LB136648
CCV04	Iron	5340	5000	107	90 - 110	P	07/29/2025	17:20	LB136648
CCV05	Iron	5290	5000	106	90 - 110	P	07/29/2025	18:11	LB136648
CCV06	Iron	4790	5000	96	90 - 110	P	07/29/2025	18:31	LB136648

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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	Iron	3880	4000	97	90 - 110	P	07/30/2025	14:11	LB136658

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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	Iron	102	100	102	80 - 120	P	07/30/2025	14:16	LB136658

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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	Iron	4900	5000	98	90 - 110	P	07/30/2025	14:45	LB136658
CCV02	Iron	4860	5000	97	90 - 110	P	07/30/2025	15:35	LB136658
CCV03	Iron	4870	5000	97	90 - 110	P	07/30/2025	15:51	LB136658



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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	Iron	106	100	106	65 - 135	P	07/29/2025	13:09	LB136648
CRI01	Iron	98.8	100	99	65 - 135	P	07/30/2025	14:24	LB136658



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	23.4	+/-50	U	80.0	100	P	07/29/2025	13:05	LB136648

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	23.4	+/-50	U	80.0	100	P	07/29/2025	14:25	LB136648
CCB02	Iron	23.4	+/-50	U	80.0	100	P	07/29/2025	15:15	LB136648
CCB03	Iron	23.4	+/-50	U	80.0	100	P	07/29/2025	16:20	LB136648
CCB04	Iron	23.4	+/-50	U	80.0	100	P	07/29/2025	17:24	LB136648
CCB05	Iron	23.4	+/-50	U	80.0	100	P	07/29/2025	18:15	LB136648
CCB06	Iron	23.4	+/-50	U	80.0	100	P	07/29/2025	18:36	LB136648

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	23.4	+/-50	U	80.0	100	P	07/30/2025	14:20	LB136658

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	23.4	+/-50	U	80.0	100	P	07/30/2025	14:49	LB136658
CCB02	Iron	23.4	+/-50	U	80.0	100	P	07/30/2025	15:39	LB136658
CCB03	Iron	23.4	+/-50	U	80.0	100	P	07/30/2025	15:56	LB136658

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169032BL		WATER		Batch Number:		PB169032		Prep Date:	07/28/2025	
	Iron	20.6	<25	J	40.0	50.0	P	07/29/2025	15:36	LB136648

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>Q2696</u>
Contract: <u>TETR06</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	Iron	103000	101000	102	85600	116500	07/29/2025	13:14	LB136648
ICSAB01	Iron	98500	99300	99	84400	114500	07/29/2025	13:20	LB136648
ICSA01	Iron	99800	101000	99	85600	116500	07/30/2025	14:28	LB136658
ICSAB01	Iron	101000	99300	102	84400	114500	07/30/2025	14:33	LB136658



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q2696
contract:	TETR06			lab code:	ACE
matrix:	Water	sample id:	Q2696-02	client id:	RW8-SP303-20250724MS
Percent Solids for Sample:	NA	Spiked ID:	Q2696-02MS	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	1610		85.8		1500	101		P



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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:

Tetra Tech NUS, Inc.

contract:

TETR06

matrix:

Water

level:

low

sample id:

Q2696-02

sdg no.:

Q2696

lab code:

ACE

client id:

RW8-SP303-20250724MSD

Percent Solids for Sample:

NA

Spiked ID:

Q2696-02MSD

Percent Solids for Spike Sample:

NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	1590		85.8		1500	100		P

Metals
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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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A
B
C
D
E
F
G
H

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2696</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2696-02</u>	Client ID:	<u>RW8-SP303-20250724DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2696-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	85.8		80.7		6		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2696</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2696-02MS</u>	Client ID:	<u>RW8-SP303-20250724MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2696-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1610		1590		1		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169032BS Iron	ug/L	1500	1500		100	87 - 115	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250724L

Lab Name: Alliance **Contract:** TETR06
Lab Code: ACE **Lb No.:** lb136658 **Lab Sample ID :** Q2696-02L **SDG No.:** Q2696
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Iron	85.8	65.2 J	24		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2696

Contract: TETR06

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: PB169032							
PB169032BL	PB169032BL	MB	WATER	07/28/2025	50.0	25.0	
PB169032BS	PB169032BS	LCS	WATER	07/28/2025	50.0	25.0	
Q2696-01	RW8-SP100-20250724	SAM	WATER	07/28/2025	50.0	25.0	
Q2696-02	RW8-SP303-20250724	SAM	WATER	07/28/2025	50.0	25.0	
Q2696-02DUP	RW8-SP303-20250724DUP	DUP	WATER	07/28/2025	50.0	25.0	
Q2696-02MS	RW8-SP303-20250724MS	MS	WATER	07/28/2025	50.0	25.0	
Q2696-02MSD	RW8-SP303-20250724MSD	MSD	WATER	07/28/2025	50.0	25.0	

metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2696

Instrument id number: _____

Method: _____

Run number: LB136648

Start date: 07/29/2025

End date: 07/29/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1120	Fe
S1	S1	1	1124	Fe
S2	S2	1	1128	Fe
S3	S3	1	1132	Fe
S4	S4	1	1137	Fe
S5	S5	1	1141	Fe
ICV01	ICV01	1	1220	Fe
LLICV01	LLICV01	1	1301	Fe
ICB01	ICB01	1	1305	Fe
CRI01	CRI01	1	1309	Fe
ICSA01	ICSA01	1	1314	Fe
ICSAB01	ICSAB01	1	1320	Fe
CCV01	CCV01	1	1421	Fe
CCB01	CCB01	1	1425	Fe
CCV02	CCV02	1	1511	Fe
CCB02	CCB02	1	1515	Fe
PB169032BL	PB169032BL	1	1536	Fe
Q2696-01	RW8-SP100-20250724	1	1544	Fe
PB169032BS	PB169032BS	1	1606	Fe
CCV03	CCV03	1	1614	Fe
CCB03	CCB03	1	1620	Fe
CCV04	CCV04	1	1720	Fe
CCB04	CCB04	1	1724	Fe
CCV05	CCV05	1	1811	Fe
CCB05	CCB05	1	1815	Fe
CCV06	CCV06	1	1831	Fe
CCB06	CCB06	1	1836	Fe

metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2696

Instrument id number: _____

Method: _____

Run number: LB136658

Start date: 07/30/2025

End date: 07/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1340	Fe
S1	S1	1	1345	Fe
S2	S2	1	1349	Fe
S3	S3	1	1353	Fe
S4	S4	1	1357	Fe
S5	S5	1	1401	Fe
ICV01	ICV01	1	1411	Fe
LLICV01	LLICV01	1	1416	Fe
ICB01	ICB01	1	1420	Fe
CRI01	CRI01	1	1424	Fe
ICSA01	ICSA01	1	1428	Fe
ICSAB01	ICSAB01	1	1433	Fe
CCV01	CCV01	1	1445	Fe
CCB01	CCB01	1	1449	Fe
Q2696-02	RW8-SP303-20250724	1	1518	Fe
Q2696-02DUP	RW8-SP303-20250724DUP	1	1522	Fe
Q2696-02L	RW8-SP303-20250724L	5	1526	Fe
Q2696-02MS	RW8-SP303-20250724MS	1	1531	Fe
CCV02	CCV02	1	1535	Fe
CCB02	CCB02	1	1539	Fe
Q2696-02MSD	RW8-SP303-20250724MSD	1	1543	Fe
CCV03	CCV03	1	1551	Fe
CCB03	CCB03	1	1556	Fe