

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q1731

Sas No.: Q1731 SDG No.: Q1731

Instrument ID: P7

Start Date : 04/04/2025

Run Number: LB135315

End Date : 04/04/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1409	100		100		100		100		100	
S2	S2	1415	102		100		100		98		100	
S3	S3	1419	103		99		98		99		99	
S4	S4	1422	105		101		100		99		100	
S5	S5	1425	109		98		99		98		102	
S6	S6	1428	110		100		99		97		102	
S7	S7	1431	110		102		102		98		104	
S8	S8	1433	112		114		114		103		116	
ICV01	ICV01	1458	96		105		107		107		106	
LLICV	LLICV	1517	97		105		107		107		108	
ICB01	ICB01	1520	96		106		107		107		108	
ICSA01	ICSA01	1524	99		104		107		103		110	
ICSAB01	ICSAB01	1527	99		107		110		106		114	
CCV01	CCV01	1530	101		107		111		103		113	
CCB01	CCB01	1533	101		104		106		107		111	
CRI	CRI	1537	100		106		109		107		111	
PB167465BL	PB167465BL	1540	100		106		109		109		110	
PB167465BS	PB167465BS	1543	101		107		110		108		112	
ZZZZZZ	ZZZZZZ	1546										
Q1711-01DUP	MW-18B-56-0	1549	105		119		123		121		125	
Q1711-01L	MW-18B-56-0	1553	95		110		115		113		115	
Q1711-02	MW-18B-56-0	1556	107		120		125		120		126	
Q1711-03	MW-18B-56-0	1559	107		120		124		120		125	
Q1711-01A	MW-18B-56-0	1602	104		118		123		121		128	
CCV02	CCV02	1610	97		112		115		108		117	
CCB02	CCB02	1615	94		107		111		110		113	

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			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1409	100		100		100		100		100	
S2	S2	1415	100		101		101		102		101	
S3	S3	1419	99		100		100		102		103	
S4	S4	1422	98		101		101		104		104	
S5	S5	1425	95		100		100		106		106	
S6	S6	1428	96		102		100		108		107	
S7	S7	1431	99		103		101		110		110	
S8	S8	1433	108		109		99		110		108	
ICV01	ICV01	1458	109		110		110		111		109	
LLICV	LLICV	1517	108		109		109		109		106	
ICB01	ICB01	1520	106		109		108		111		109	
ICSA01	ICSA01	1524	103		107		105		112		110	
ICSAB01	ICSAB01	1527	105		111		107		114		113	
CCV01	CCV01	1530	108		110		104		112		111	
CCB01	CCB01	1533	104		111		110		112		110	
CRI	CRI	1537	106		110		109		112		109	
PB167465BL	PB167465BL	1540	106		109		110		112		109	
PB167465BS	PB167465BS	1543	105		108		108		112		110	
ZZZZZZ	ZZZZZZ	1546										
Q1711-01DUP	MW-18B-56-0	1549	122		124		122		122		120	
Q1711-01L	MW-18B-56-0	1553	112		116		114		113		112	
Q1711-02	MW-18B-56-0	1556	120		123		118		123		120	
Q1711-03	MW-18B-56-0	1559	120		123		120		121		120	
Q1711-01A	MW-18B-56-0	1602	120		122		120		122		122	
CCV02	CCV02	1610	116		117		111		117		115	
CCB02	CCB02	1615	109		112		111		111		109	

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Lab Code: CHEM Case no.: Q1731

Sas No.: Q1731 SDG No.: Q1731

Instrument ID: P8

Start Date : 04/07/2025

Run Number: LB135332

End Date : 04/07/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1129	100		100		100		100		100	
S2	S2	1136	98		98		97		98		98	
S3	S3	1139	97		98		98		96		99	
S4	S4	1142	96		95		96		95		97	
S5	S5	1145	95		96		96		93		99	
S6	S6	1148	92		92		94		88		94	
S7	S7	1151	93		96		94		88		95	
S8	S8	1154	83		86		85		74		86	
ICV01	ICV01	1240	103		102		102		100		100	
LLICV	LLICV	1244	104		103		101		99		101	
ICB01	ICB01	1248	103		102		99		98		99	
ICSA01	ICSA01	1257	101		103		98		88		95	
ICSAB01	ICSAB01	1304	103		105		99		89		96	
CCV01	CCV01	1307	96		101		94		83		90	
CCB01	CCB01	1317	115		115		106		105		102	
CRI	CRI	1320	115		116		107		105		103	
ZZZZZZ	ZZZZZZ	1324										
ZZZZZZ	ZZZZZZ	1327										
ZZZZZZ	ZZZZZZ	1330										
Q1711-14DUP	MW-18B-56-0	1333	116		114		107		100		101	
Q1711-14L	MW-18B-56-0	1337	113		110		104		100		100	
Q1711-15	MW-18B-56-0	1340	116		112		104		96		98	
Q1711-16	MW-18B-56-0	1343	116		115		104		95		99	
CCV02	CCV02	1358	99		99		94		82		89	
CCB02	CCB02	1405	110		108		102		100		98	
Q1711-14A	MW-18B-56-0	1408	110		110		102		93		95	
Q1731-05	EB01-040325	1411	113		109		104		101		98	
Q1731-06	EB01-040325	1414	112		109		102		101		97	
ZZZZZZ	ZZZZZZ	1418										
ZZZZZZ	ZZZZZZ	1421										
ZZZZZZ	ZZZZZZ	1433										
ZZZZZZ	ZZZZZZ	1436										
ZZZZZZ	ZZZZZZ	1439										
ZZZZZZ	ZZZZZZ	1443										
ZZZZZZ	ZZZZZZ	1452										
CCV03	CCV03	1500	104		102		96		84		93	

Internal Standard %RI Limit: 70 - 130

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			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
CCB03	CCB03	1513	120		116		109		106		104	

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Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1129	100		100		100		100		100	
S2	S2	1136	99		100		101		100		99	
S3	S3	1139	96		97		97		98		98	
S4	S4	1142	95		94		96		98		98	
S5	S5	1145	96		95		94		98		97	
S6	S6	1148	95		95		91		97		97	
S7	S7	1151	99		93		89		96		96	
S8	S8	1154	92		88		78		89		89	
ICV01	ICV01	1240	105		102		99		98		99	
LLICV	LLICV	1244	103		101		100		99		98	
ICB01	ICB01	1248	102		100		100		98		98	
ICSA01	ICSA01	1257	104		100		90		94		95	
ICSAB01	ICSAB01	1304	110		104		91		95		95	
CCV01	CCV01	1307	108		101		86		92		93	
CCB01	CCB01	1317	117		111		108		103		102	
CRI	CRI	1320	117		111		107		102		102	
ZZZZZZ	ZZZZZZ	1324										
ZZZZZZ	ZZZZZZ	1327										
ZZZZZZ	ZZZZZZ	1330										
Q1711-14DUP	MW-18B-56-0	1333	117		112		104		103		103	
Q1711-14L	MW-18B-56-0	1337	113		108		104		101		101	
Q1711-15	MW-18B-56-0	1340	121		111		100		99		99	
Q1711-16	MW-18B-56-0	1343	121		110		100		99		100	
CCV02	CCV02	1358	112		104		87		93		94	
CCB02	CCB02	1405	109		106		103		97		97	
Q1711-14A	MW-18B-56-0	1408	117		106		94		96		96	
Q1731-05	EB01-040325	1411	113		107		103		99		98	
Q1731-06	EB01-040325	1414	110		106		103		99		97	
ZZZZZZ	ZZZZZZ	1418										
ZZZZZZ	ZZZZZZ	1421										
ZZZZZZ	ZZZZZZ	1433										
ZZZZZZ	ZZZZZZ	1436										
ZZZZZZ	ZZZZZZ	1439										
ZZZZZZ	ZZZZZZ	1443										
ZZZZZZ	ZZZZZZ	1452										
CCV03	CCV03	1500	108		103		89		95		95	

Internal Standard %RI Limit: 70 - 130

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			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
CCB03	CCB03	1513	116		113		109		103		103	