

FORM 14-IN

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51817 MA No.: SDG No.: MYE5L0
 Instrument ID: P7 Start Date : 11/12/2024
 Run Batch: LB133416 End Date : 11/13/2024

EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
		6Li		45Sc		89Y		103Rh		159Tb	
S0	1238	100		100		100		100		100	
S02	1245	104		103		102		103		102	
S03	1248	110		108		108		107		108	
S04	1251	110		107		107		106		108	
S05	1254	108		105		106		103		107	
S06	1256	106		103		106		102		107	
S07	1259	103		104		104		100		108	
S08	1302	90		94		94		84		94	
ICV001	1343	103		108		105		104		101	
ICB001	1346	103		109		106		106		103	
ICSA001	1349	95		106		107		100		107	
ICSAB001	1352	90		109		113		104		110	
CCV001	1359	93		111		110		101		108	
CCB001	1402	98		111		111		110		107	
ZZZZZZ	1407										
ZZZZZZ	1410										
ZZZZZZ	1413										
ZZZZZZ	1417										
ZZZZZZ	1420										
ZZZZZZ	1423										
ZZZZZZ	1426										
ZZZZZZ	1430										
ZZZZZZ	1433										
ZZZZZZ	1436										
ZZZZZZ	1439										
ZZZZZZ	1442										
ZZZZZZ	1445										
ZZZZZZ	1448										
ZZZZZZ	1451										
ZZZZZZ	1454										
ZZZZZZ	1457										
ZZZZZZ	1500										
ZZZZZZ	1504										
ZZZZZZ	1507										
ZZZZZZ	1510										
ZZZZZZ	1513										
ZZZZZZ	1516										
ZZZZZZ	1519										

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	1521										
ZZZZZZ	1524										
ZZZZZZ	1528										
ZZZZZZ	1530										
ZZZZZZ	1533										
ZZZZZZ	1536										
ZZZZZZ	1539										
CCV002	1542	89		104		108		99		110	
CCB002	1545	95		105		107		108		108	
ZZZZZZ	1548										
ZZZZZZ	1551										
ZZZZZZ	1554										
ZZZZZZ	1557										
ZZZZZZ	1600										
ZZZZZZ	1603										
ZZZZZZ	1606										
ZZZZZZ	1610										
ZZZZZZ	1613										
ZZZZZZ	1616										
ZZZZZZ	1619										
ZZZZZZ	1622										
ZZZZZZ	1625										
ZZZZZZ	1628										
ZZZZZZ	1631										
ZZZZZZ	1634										
ZZZZZZ	1637										
ZZZZZZ	1640										
ZZZZZZ	1643										
ZZZZZZ	1646										
ZZZZZZ	1649										
ZZZZZZ	1652										
ZZZZZZ	1655										
ZZZZZZ	1658										
ZZZZZZ	1701										
ZZZZZZ	1704										
CCV003	1707	86		101		106		98		110	
CCB003	1710	91		103		107		108		110	
ZZZZZZ	1713										

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	1716										
ZZZZZZ	1719										
ZZZZZZ	1722										
ZZZZZZ	1725										
ZZZZZZ	1728										
ZZZZZZ	1731										
ZZZZZZ	1734										
ZZZZZZ	1737										
ZZZZZZ	1740										
ZZZZZZ	1743										
ZZZZZZ	1746										
ZZZZZZ	1749										
ZZZZZZ	1752										
ZZZZZZ	1755										
ZZZZZZ	1758										
ZZZZZZ	1801										
ZZZZZZ	1805										
ZZZZZZ	1808										
ZZZZZZ	1811										
ZZZZZZ	1814										
ZZZZZZ	1817										
ZZZZZZ	1820										
ZZZZZZ	1823										
ZZZZZZ	1826										
ZZZZZZ	1829										
ZZZZZZ	1833										
ZZZZZZ	1836										
CCV004	1839	90		100		103		96		107	
CCB004	1842	98		106		109		109		111	
ZZZZZZ	1845										
ZZZZZZ	1848										
ZZZZZZ	1851										
ZZZZZZ	1854										
ZZZZZZ	1857										
ZZZZZZ	1900										
ZZZZZZ	1912										
ZZZZZZ	1915										
ZZZZZZ	1919										

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	1922										
ZZZZZZ	1925										
ZZZZZZ	1928										
ZZZZZZ	1931										
ZZZZZZ	1934										
ZZZZZZ	1937										
ZZZZZZ	1941										
ZZZZZZ	1944										
ZZZZZZ	1948										
ZZZZZZ	1951										
ZZZZZZ	1954										
ZZZZZZ	1957										
ZZZZZZ	2000										
ZZZZZZ	2003										
ZZZZZZ	2007										
ZZZZZZ	2010										
ZZZZZZ	2013										
ZZZZZZ	2016										
CCV005	2019	91		104		105		97		106	
CCB005	2022	99		106		108		107		108	
ZZZZZZ	2025										
ZZZZZZ	2028										
ZZZZZZ	2031										
ZZZZZZ	2039										
ZZZZZZ	2042										
PBS699	2045	101		108		108		107		106	
LCS699	2048	101		108		107		107		106	
LCSD699	2052	99		108		108		108		105	
ZZZZZZ	2055										
ZZZZZZ	2058										
ZZZZZZ	2101										
ZZZZZZ	2104										
ZZZZZZ	2107										
ZZZZZZ	2110										
ZZZZZZ	2113										
ZZZZZZ	2116										
ZZZZZZ	2119										
ZZZZZZ	2122										

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	2125										
MYE5L0	2128	79		105		113		107		113	
MYE5L1	2131	82		106		116		107		114	
MYE5L2	2134	80		106		114		109		114	
MYE5M3	2138	81		106		116		108		113	
MYE5M4	2141	87		107		121		109		114	
MYE5M5	2144	82		108		118		107		114	
MYE5M6	2147	79		109		119		109		116	
MYE5M7	2150	76		104		113		103		111	
MYE5M8	2153	80		106		115		106		112	
CCV006	2158	87		102		104		97		107	
CCB006	2203	96		107		109		109		108	
MYE5M9	2206	84		109		115		106		108	
MYE5N0	2209	79		109		116		108		111	
MYE5N1	2212	79		111		119		110		114	
MYE5N2	2215	78		108		116		110		114	
MYE5N2D	2218	79		108		116		109		113	
MYE5N2L	2221	86		109		113		111		114	
MYE5N2S	2224	81		106		113		108		113	
MYE5N2SRE	2227	83		108		115		110		116	
ZZZZZZ	2230										
ZZZZZZ	2233										
ZZZZZZ	2237										
ZZZZZZ	2240										
ZZZZZZ	2243										
ZZZZZZ	2246										
ZZZZZZ	2249										
ZZZZZZ	2252										
ZZZZZZ	2255										
ZZZZZZ	2259										
ZZZZZZ	2302										
ZZZZZZ	2305										
ZZZZZZ	2308										
ZZZZZZ	2311										
ZZZZZZ	2314										
ZZZZZZ	2317										
ZZZZZZ	2320										
ZZZZZZ	2323										

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	2326										
ZZZZZZ	2329										
CCV007	2332	81		99		105		97		109	
CCB007	2335	88		102		108		108		110	
ZZZZZZ	2338										
ZZZZZZ	2341										
ZZZZZZ	2344										
ZZZZZZ	2347										
ZZZZZZ	2350										
ZZZZZZ	2353										
ZZZZZZ	2357										
ZZZZZZ	0000										
ZZZZZZ	0003										
ZZZZZZ	0006										
ZZZZZZ	0009										
ZZZZZZ	0012										
ZZZZZZ	0015										
ZZZZZZ	0019										
ZZZZZZ	0022										
MYE5N2	0025	86		103		108		106		109	
MYE5N2D	0028	87		105		110		107		109	
MYE5N2L	0031	88		105		108		108		109	
MYE5N2S	0034	89		105		109		107		110	
MYE5N2SRE	0038	88		103		108		106		107	
ZZZZZZ	0047										
ZZZZZZ	0050										
ZZZZZZ	0053										
ZZZZZZ	0057										
ZZZZZZ	0100										
CCV008	0103	89		102		106		97		108	
CCB008	0105	96		105		108		108		110	

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EPA Sample No.	Time	Internal Standard %RI For: Collision Cell									
		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
S0	1238	100		100		100		100		100	
S02	1245	104		102		102		103		102	
S03	1248	106		106		107		107		106	
S04	1251	106		106		105		108		106	
S05	1254	102		103		100		106		105	
S06	1256	104		102		100		107		105	
S07	1259	104		104		99		107		107	
S08	1302	102		102		89		99		99	
ICV001	1343	110		109		107		105		104	
ICB001	1346	111		109		108		106		104	
ICSA001	1349	111		110		104		109		107	
ICSAB001	1352	114		113		107		111		109	
CCV001	1359	113		112		101		108		107	
CCB001	1402	112		112		111		108		107	
ZZZZZZ	1407										
ZZZZZZ	1410										
ZZZZZZ	1413										
ZZZZZZ	1417										
ZZZZZZ	1420										
ZZZZZZ	1423										
ZZZZZZ	1426										
ZZZZZZ	1430										
ZZZZZZ	1433										
ZZZZZZ	1436										
ZZZZZZ	1439										
ZZZZZZ	1442										
ZZZZZZ	1445										
ZZZZZZ	1448										
ZZZZZZ	1451										
ZZZZZZ	1454										
ZZZZZZ	1457										
ZZZZZZ	1500										
ZZZZZZ	1504										
ZZZZZZ	1507										
ZZZZZZ	1510										
ZZZZZZ	1513										
ZZZZZZ	1516										
ZZZZZZ	1519										

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EPA Sample No.	Time	Internal Standard %RI For: Collision Cell									
		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
ZZZZZZ	1521										
ZZZZZZ	1524										
ZZZZZZ	1528										
ZZZZZZ	1530										
ZZZZZZ	1533										
ZZZZZZ	1536										
ZZZZZZ	1539										
CCV002	1542	104		105		98		106		104	
CCB002	1545	107		108		109		108		107	
ZZZZZZ	1548										
ZZZZZZ	1551										
ZZZZZZ	1554										
ZZZZZZ	1557										
ZZZZZZ	1600										
ZZZZZZ	1603										
ZZZZZZ	1606										
ZZZZZZ	1610										
ZZZZZZ	1613										
ZZZZZZ	1616										
ZZZZZZ	1619										
ZZZZZZ	1622										
ZZZZZZ	1625										
ZZZZZZ	1628										
ZZZZZZ	1631										
ZZZZZZ	1634										
ZZZZZZ	1637										
ZZZZZZ	1640										
ZZZZZZ	1643										
ZZZZZZ	1646										
ZZZZZZ	1649										
ZZZZZZ	1652										
ZZZZZZ	1655										
ZZZZZZ	1658										
ZZZZZZ	1701										
ZZZZZZ	1704										
CCV003	1707	103		104		98		107		106	
CCB003	1710	103		107		109		109		106	
ZZZZZZ	1713										

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EPA Sample No.	Time	Internal Standard %RI For: Collision Cell									
		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
ZZZZZZ	1716										
ZZZZZZ	1719										
ZZZZZZ	1722										
ZZZZZZ	1725										
ZZZZZZ	1728										
ZZZZZZ	1731										
ZZZZZZ	1734										
ZZZZZZ	1737										
ZZZZZZ	1740										
ZZZZZZ	1743										
ZZZZZZ	1746										
ZZZZZZ	1749										
ZZZZZZ	1752										
ZZZZZZ	1755										
ZZZZZZ	1758										
ZZZZZZ	1801										
ZZZZZZ	1805										
ZZZZZZ	1808										
ZZZZZZ	1811										
ZZZZZZ	1814										
ZZZZZZ	1817										
ZZZZZZ	1820										
ZZZZZZ	1823										
ZZZZZZ	1826										
ZZZZZZ	1829										
ZZZZZZ	1833										
ZZZZZZ	1836										
CCV004	1839	101		101		95		104		102	
CCB004	1842	104		106		107		108		106	
ZZZZZZ	1845										
ZZZZZZ	1848										
ZZZZZZ	1851										
ZZZZZZ	1854										
ZZZZZZ	1857										
ZZZZZZ	1900										
ZZZZZZ	1912										
ZZZZZZ	1915										
ZZZZZZ	1919										

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EPA Sample No.	Time	Internal Standard %RI For: Collision Cell									
		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
ZZZZZZ	1922										
ZZZZZZ	1925										
ZZZZZZ	1928										
ZZZZZZ	1931										
ZZZZZZ	1934										
ZZZZZZ	1937										
ZZZZZZ	1941										
ZZZZZZ	1944										
ZZZZZZ	1948										
ZZZZZZ	1951										
ZZZZZZ	1954										
ZZZZZZ	1957										
ZZZZZZ	2000										
ZZZZZZ	2003										
ZZZZZZ	2007										
ZZZZZZ	2010										
ZZZZZZ	2013										
ZZZZZZ	2016										
CCV005	2019	102		103		95		103		102	
CCB005	2022	107		109		110		108		108	
ZZZZZZ	2025										
ZZZZZZ	2028										
ZZZZZZ	2031										
ZZZZZZ	2039										
ZZZZZZ	2042										
PBS699	2045	109		108		109		107		105	
LCS699	2048	107		107		108		106		104	
LCSD699	2052	108		108		108		106		103	
ZZZZZZ	2055										
ZZZZZZ	2058										
ZZZZZZ	2101										
ZZZZZZ	2104										
ZZZZZZ	2107										
ZZZZZZ	2110										
ZZZZZZ	2113										
ZZZZZZ	2116										
ZZZZZZ	2119										
ZZZZZZ	2122										

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		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
ZZZZZZ	2125										
MYE5L0	2128	106		108		106		108		106	
MYE5L1	2131	109		112		107		110		108	
MYE5L2	2134	107		110		108		110		108	
MYE5M3	2138	109		113		109		110		107	
MYE5M4	2141	107		116		107		110		107	
MYE5M5	2144	110		114		108		111		108	
MYE5M6	2147	113		115		107		110		108	
MYE5M7	2150	110		111		107		108		106	
MYE5M8	2153	108		111		106		108		107	
CCV006	2158	102		102		95		104		102	
CCB006	2203	105		106		107		108		105	
MYE5M9	2206	111		112		107		107		106	
MYE5N0	2209	109		113		108		109		106	
MYE5N1	2212	111		114		108		110		106	
MYE5N2	2215	111		115		113		113		111	
MYE5N2D	2218	107		108		107		108		106	
MYE5N2L	2221	106		109		110		109		106	
MYE5N2S	2224	106		109		108		108		105	
MYE5N2SRE	2227	106		108		107		109		106	
ZZZZZZ	2230										
ZZZZZZ	2233										
ZZZZZZ	2237										
ZZZZZZ	2240										
ZZZZZZ	2243										
ZZZZZZ	2246										
ZZZZZZ	2249										
ZZZZZZ	2252										
ZZZZZZ	2255										
ZZZZZZ	2259										
ZZZZZZ	2302										
ZZZZZZ	2305										
ZZZZZZ	2308										
ZZZZZZ	2311										
ZZZZZZ	2314										
ZZZZZZ	2317										
ZZZZZZ	2320										
ZZZZZZ	2323										

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 Run Batch: LB133416 End Date : 11/13/2024

EPA Sample No.	Time	Internal Standard %RI For: Collision Cell									
		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
ZZZZZZ	2326										
ZZZZZZ	2329										
CCV007	2332	99		101		96		104		103	
CCB007	2335	99		100		102		103		101	
ZZZZZZ	2338										
ZZZZZZ	2341										
ZZZZZZ	2344										
ZZZZZZ	2347										
ZZZZZZ	2350										
ZZZZZZ	2353										
ZZZZZZ	2357										
ZZZZZZ	0000										
ZZZZZZ	0003										
ZZZZZZ	0006										
ZZZZZZ	0009										
ZZZZZZ	0012										
ZZZZZZ	0015										
ZZZZZZ	0019										
ZZZZZZ	0022										
MYE5N2	0025	103		104		105		107		104	
MYE5N2D	0028	104		104		106		107		104	
MYE5N2L	0031	104		105		107		107		104	
MYE5N2S	0034	104		106		106		106		105	
MYE5N2SRE	0038	112		113		115		114		113	
ZZZZZZ	0047										
ZZZZZZ	0050										
ZZZZZZ	0053										
ZZZZZZ	0057										
ZZZZZZ	0100										
CCV008	0103	103		103		97		105		104	
CCB008	0105	105		106		108		108		105	