

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
 Data File : VV039227.D
 Acq On : 29 Sep 2025 13:31
 Operator : SY/MD
 Sample : Q3195-18
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

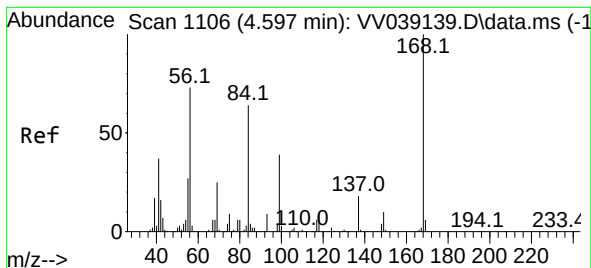
Quant Time: Sep 30 01:25:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	474559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	811077	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	824686	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	412882	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	370844	53.994	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 107.980%	
35) Dibromofluoromethane	4.503	113	356197	54.628	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 109.260%	
50) Toluene-d8	7.239	98	875398	45.711	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 91.420%	
62) 4-Bromofluorobenzene	10.001	95	361112	45.805	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 91.600%	
Target Compounds						Qvalue
6) Chloroethane	1.548	64	106	Below Cal	#	44
11) Tert butyl alcohol	2.574	59	952	0.656	ug/l #	75
13) Acrolein	2.018	56	422	1.675	ug/l #	31
16) Acetone	2.127	43	7506	Below Cal	#	84
20) Methylene Chloride	2.452	84	1644	Below Cal	#	80
27) cis-1,2-Dichloroethene	3.828	96	7314	0.871	ug/l	46
31) Cyclohexane	4.596	56	10297	0.841	ug/l #	1
32) 1,1,1-Trichloroethane	4.506	97	3719	0.275	ug/l #	40
36) 1,1-Dichloropropene	4.603	75	39424	3.999	ug/l #	49
38) Carbon Tetrachloride	4.600	117	50003	4.150	ug/l #	17
41) Methacrylonitrile	4.153	41	76	1.924	ug/l #	1
44) Trichloroethene	5.860	130	3379	0.456	ug/l	86
49) 1,4-Dioxane	6.037	88	62	0.520	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.818	63	84	9.637	ug/l #	47
59) 2-Hexanone	8.236	43	118	2.339	ug/l	79
60) Dibromochloromethane	7.911	129	3867	0.407	ug/l #	10
64) Tetrachloroethene	7.905	164	5510	0.798	ug/l #	86
70) Styrene	9.490	104	127	1.566	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	175521	18.671	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	175521	44.824	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.268	75	44	Below Cal	#	5

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Sep 30 01:25:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

Instrument :

MSVOA_V

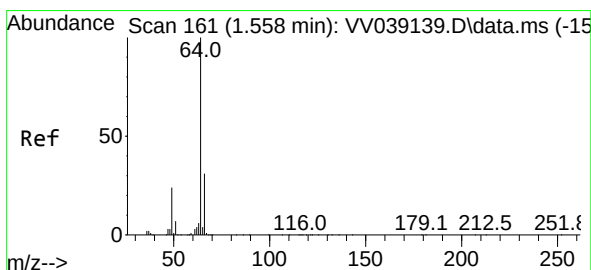
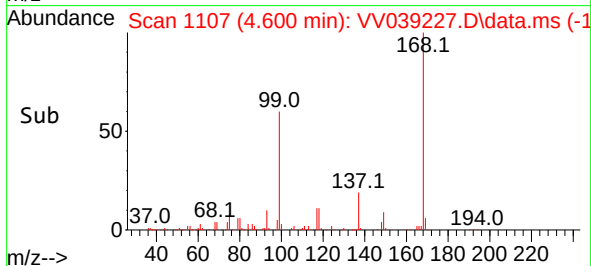
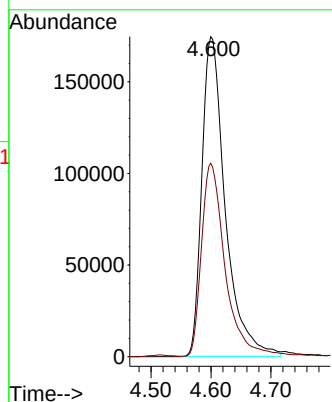
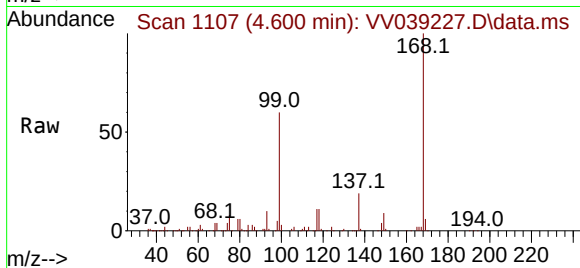
ClientSampleId :

Tgt Ion:168 Resp: 474559

Ion Ratio Lower Upper

168 100

99 60.3 49.6 74.4



#6

Chloroethane

Concen: Below Cal

RT: 1.548 min Scan# 158

Delta R.T. -0.010 min

Lab File: VV039227.D

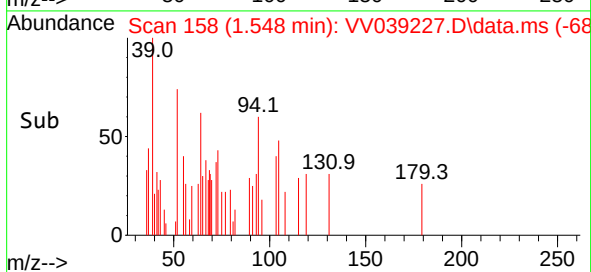
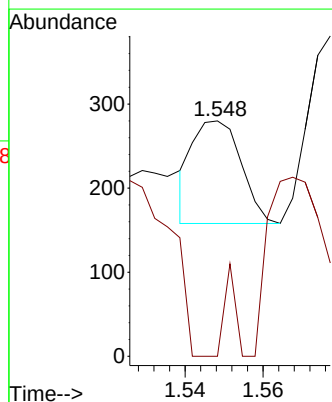
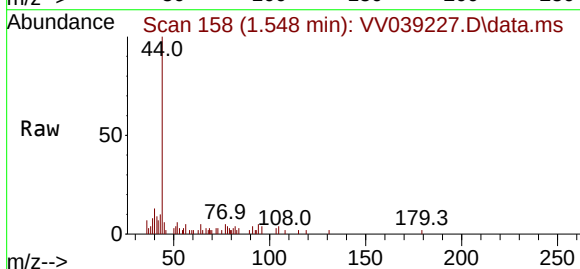
Acq: 29 Sep 2025 13:31

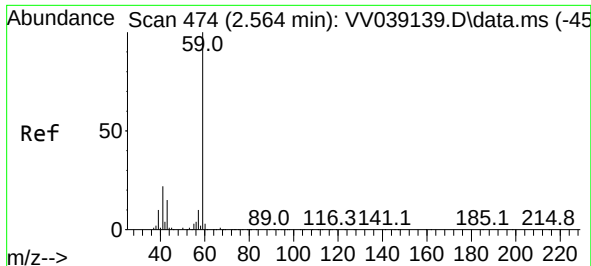
Tgt Ion: 64 Resp: 106

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#

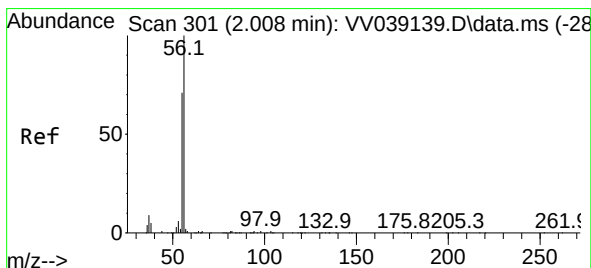
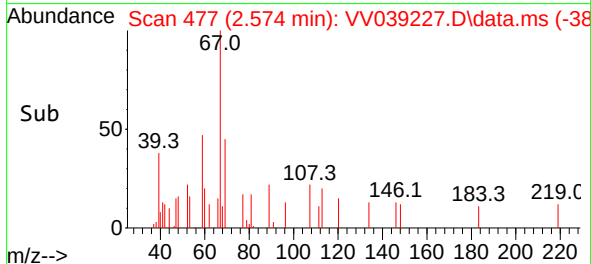
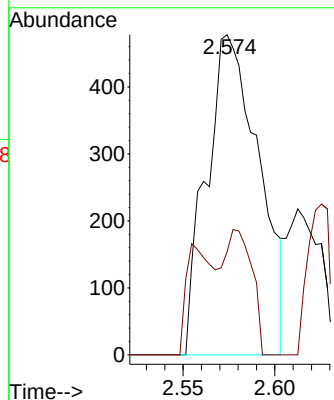
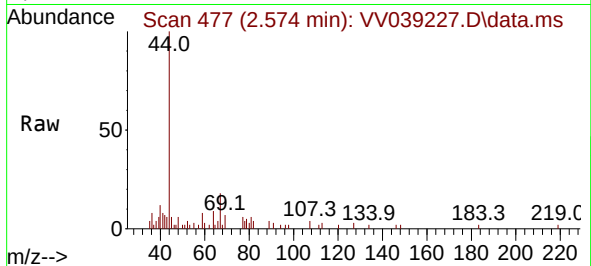




#11
Tert butyl alcohol
Concen: 0.656 ug/l
RT: 2.574 min Scan# 41
Delta R.T. 0.010 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

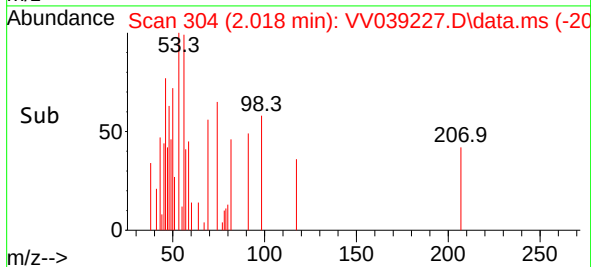
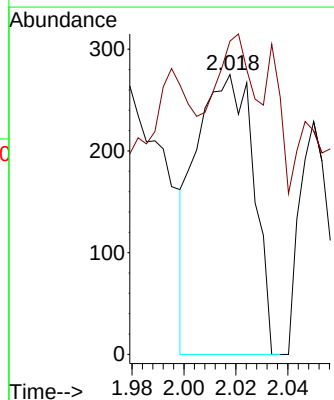
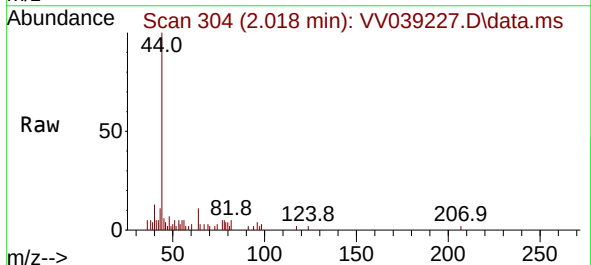
Instrument :
MSVOA_V
ClientSampleId :

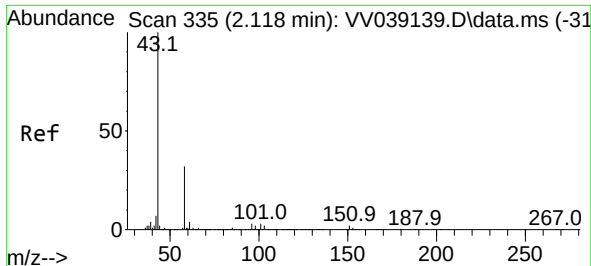
Tgt Ion: 59 Resp: 952
Ion Ratio Lower Upper
59 100
57 18.9 7.8 11.8#



#13
Acrolein
Concen: 1.675 ug/l
RT: 2.018 min Scan# 304
Delta R.T. 0.010 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 56 Resp: 422
Ion Ratio Lower Upper
56 100
55 13.3 56.2 84.4#

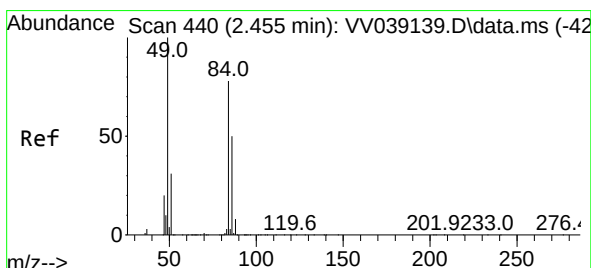
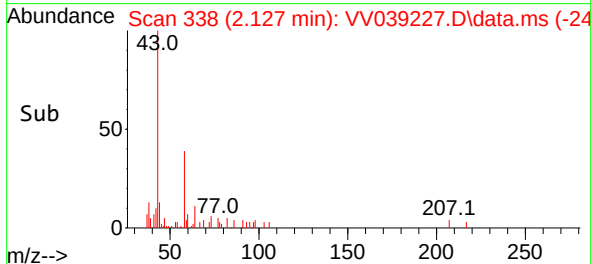
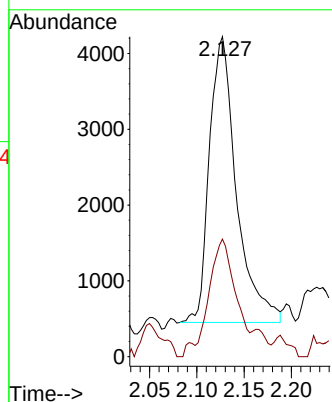
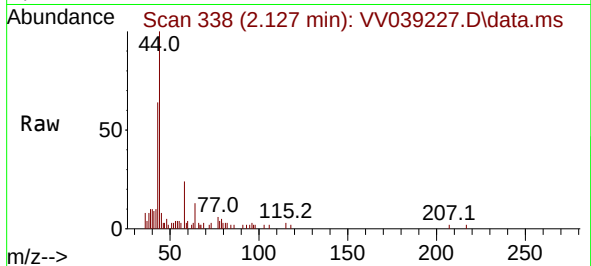




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

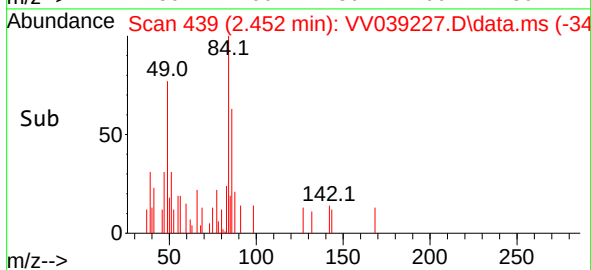
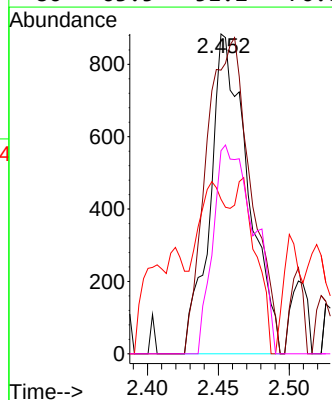
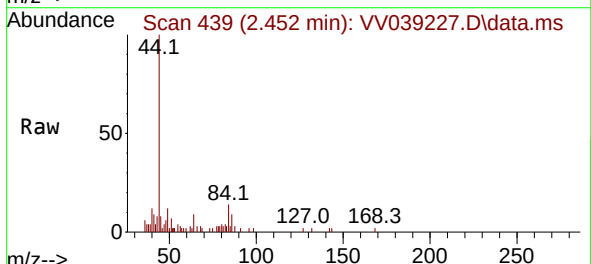
Instrument :
MSVOA_V
ClientSampleId :

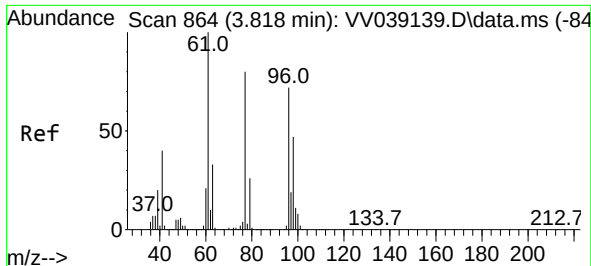
Tgt Ion: 43 Resp: 7506
Ion Ratio Lower Upper
43 100
58 41.1 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.452 min Scan# 439
Delta R.T. -0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 84 Resp: 1644
Ion Ratio Lower Upper
84 100
49 88.7 102.8 154.2#
51 36.0 31.9 47.9
86 63.5 51.2 76.8





#27

cis-1,2-Dichloroethene

Concen: 0.871 ug/l

RT: 3.828 min Scan# 8

Delta R.T. 0.010 min

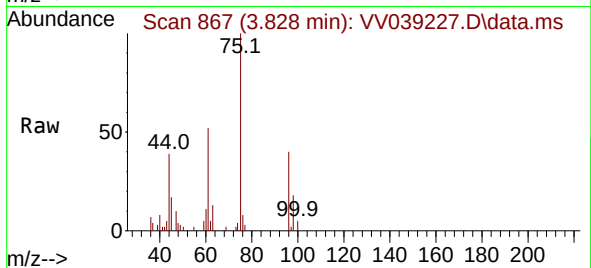
Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

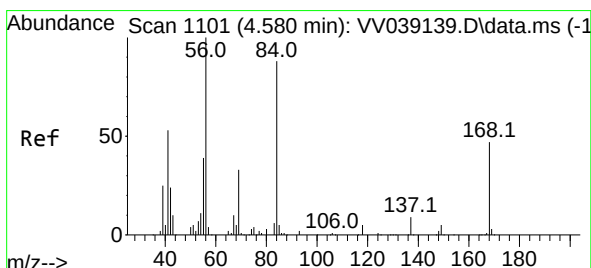
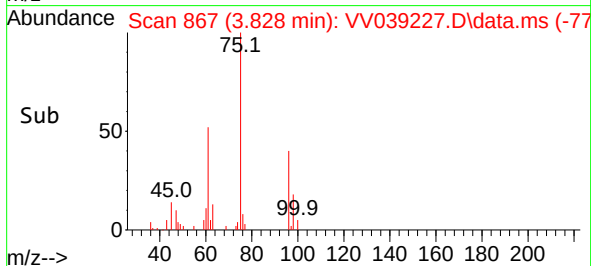
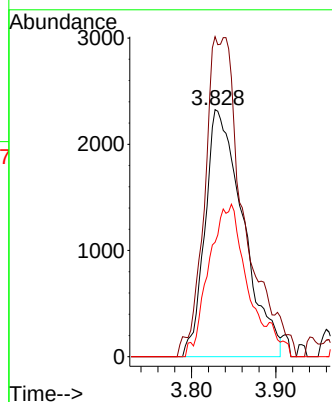
Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	96	Resp:	7314
Ion	Ratio	Lower	Upper
96	100		
61	49.1	0.0	286.4
98	59.7	0.0	126.6



#31

Cyclohexane

Concen: 0.841 ug/l

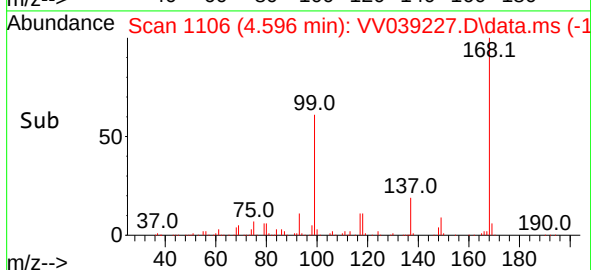
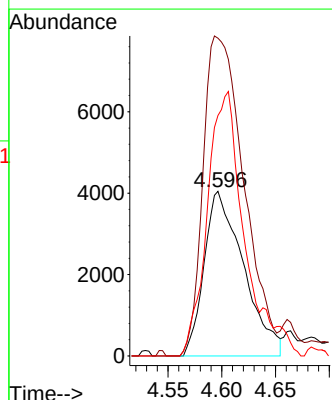
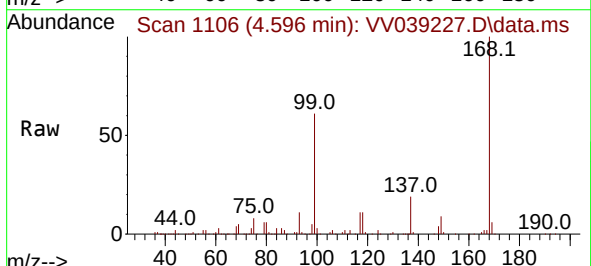
RT: 4.596 min Scan# 1106

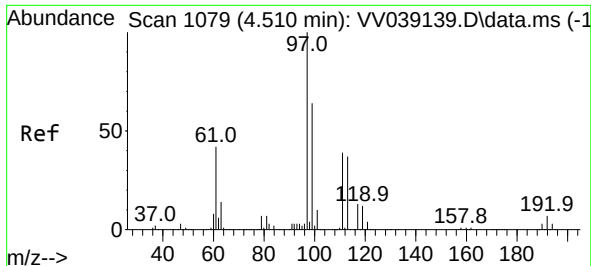
Delta R.T. 0.016 min

Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

Tgt Ion:	56	Resp:	10297
Ion	Ratio	Lower	Upper
56	100		
69	193.1	26.2	39.2#
84	146.1	70.3	105.5#





#32

1,1,1-Trichloroethane

Concen: 0.275 ug/l

RT: 4.506 min Scan# 1079

Delta R.T. -0.003 min

Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

Instrument :

MSVOA_V

ClientSampleId :

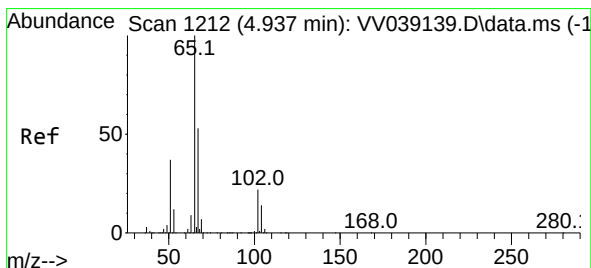
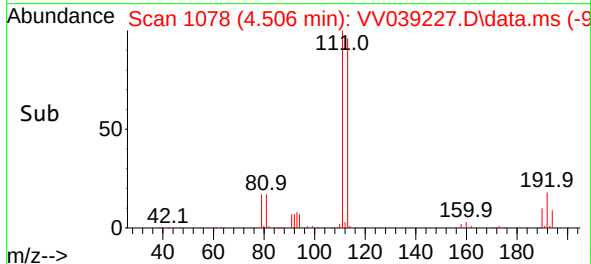
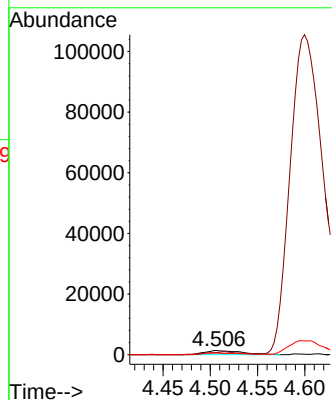
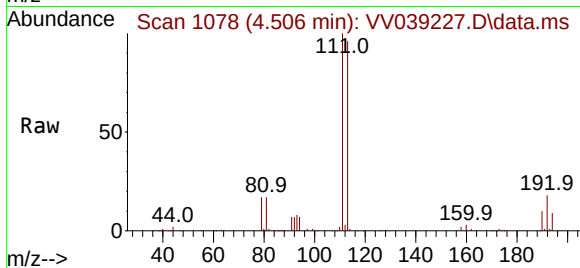
Tgt Ion: 97 Resp: 3719

Ion Ratio Lower Upper

97 100

99 0.0 49.6 74.4#

61 23.9 34.5 51.7#



#33

1,2-Dichloroethane-d4

Concen: 53.994 ug/l

RT: 4.944 min Scan# 1214

Delta R.T. 0.006 min

Lab File: VV039227.D

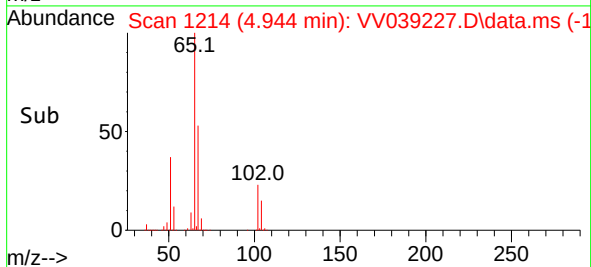
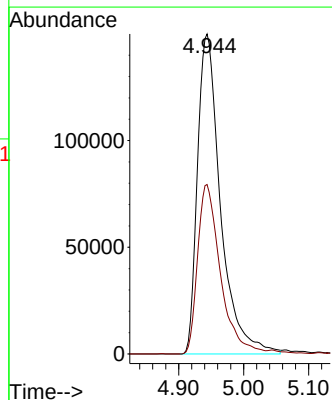
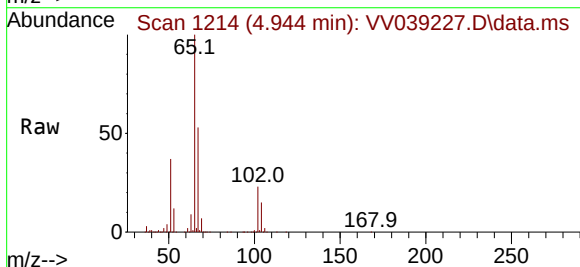
Acq: 29 Sep 2025 13:31

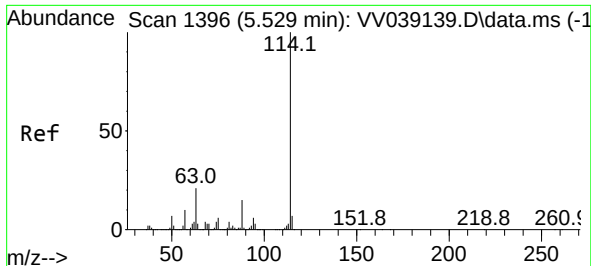
Tgt Ion: 65 Resp: 370844

Ion Ratio Lower Upper

65 100

67 52.3 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

Instrument :

MSVOA_V

ClientSampleId :

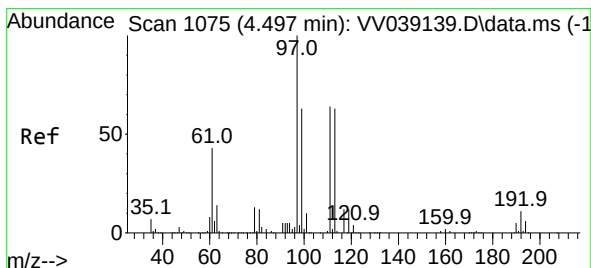
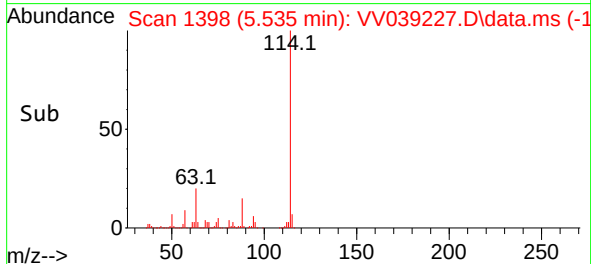
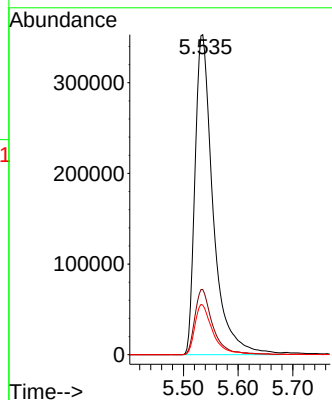
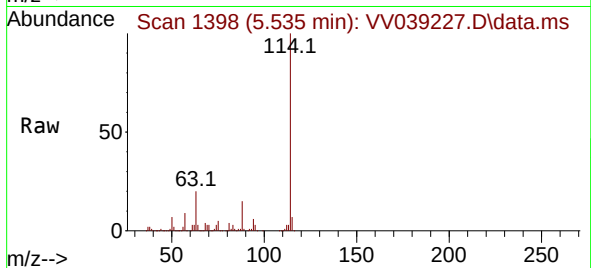
Tgt Ion:114 Resp: 811077

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 15.5 0.0 30.8



#35

Dibromofluoromethane

Concen: 54.628 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

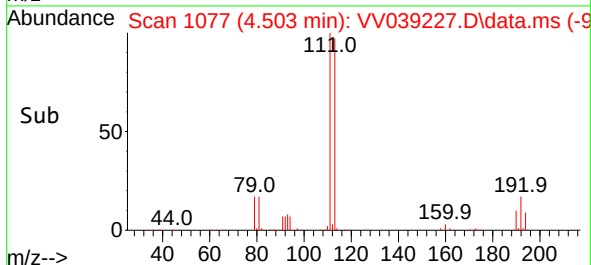
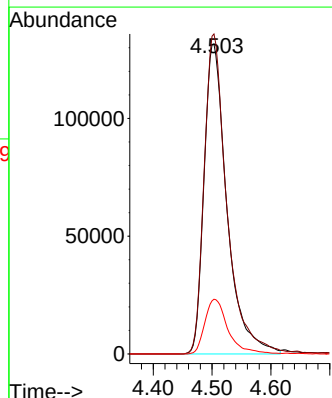
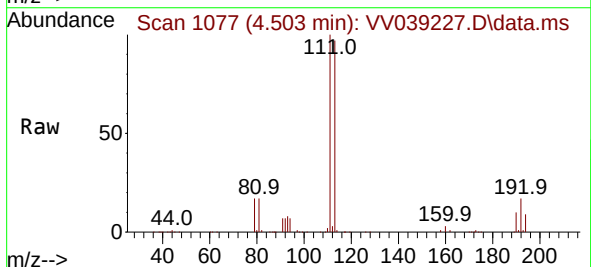
Tgt Ion:113 Resp: 356197

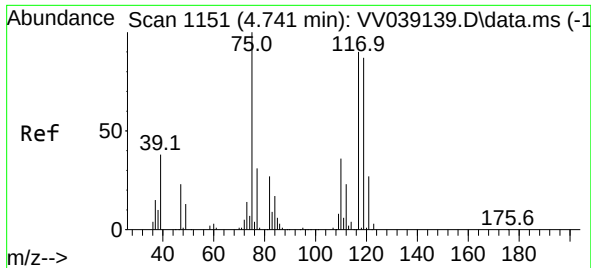
Ion Ratio Lower Upper

113 100

111 102.4 82.4 123.6

192 17.8 13.8 20.8

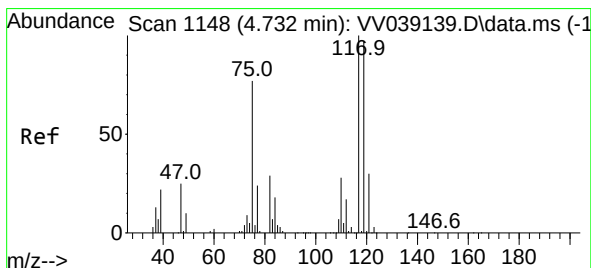
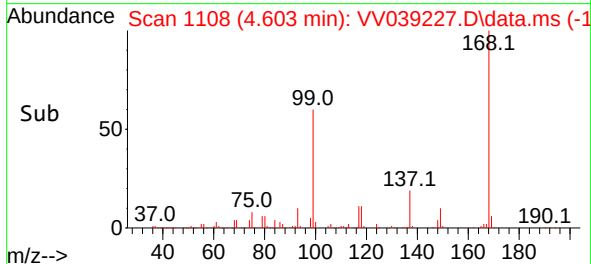
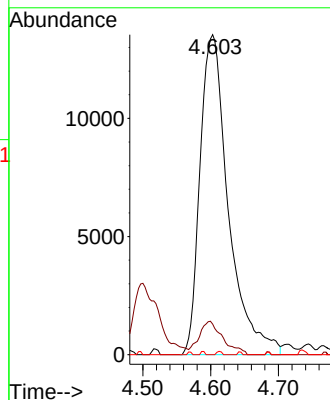
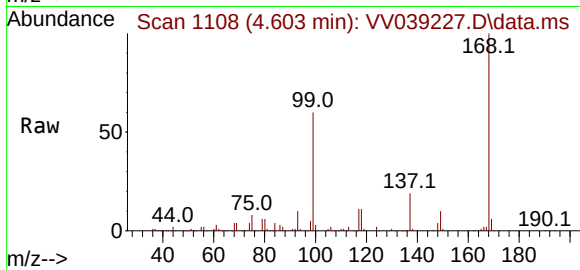




#36
 1,1-Dichloropropene
 Concen: 3.999 ug/l
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.138 min
 Lab File: VV039227.D
 Acq: 29 Sep 2025 13:31

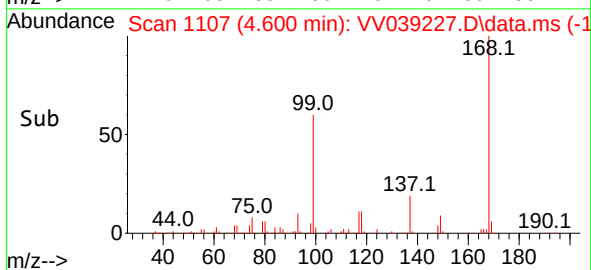
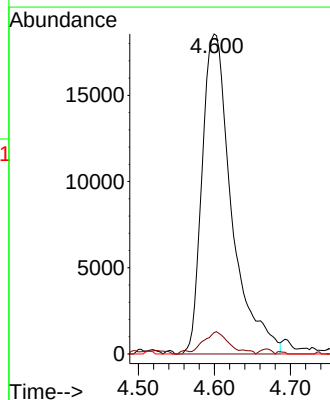
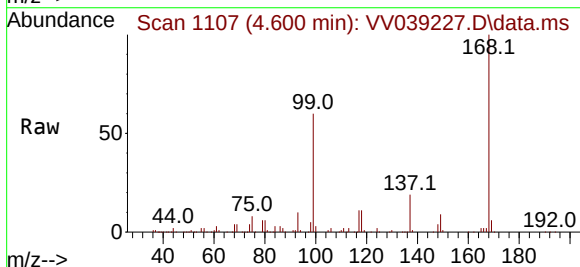
Instrument :
 MSVOA_V
 ClientSampleId :

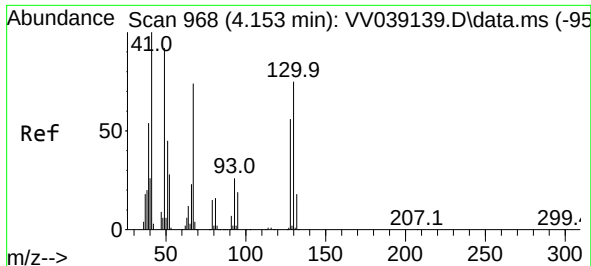
Tgt Ion: 75 Resp: 39424
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.1 54.1#
 77 0.2 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 4.150 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.132 min
 Lab File: VV039227.D
 Acq: 29 Sep 2025 13:31

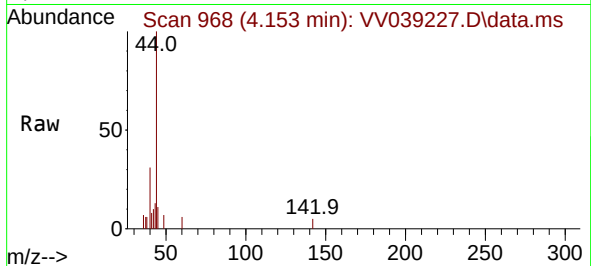
Tgt Ion: 117 Resp: 50003
 Ion Ratio Lower Upper
 117 100
 119 6.1 77.2 115.8#
 121 0.0 24.2 36.2#



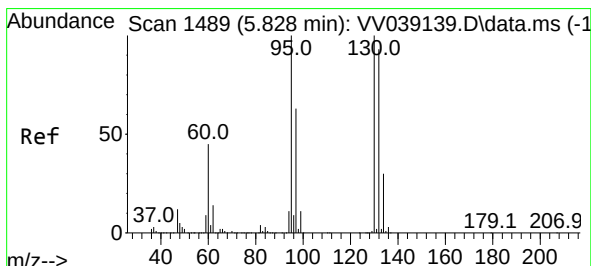
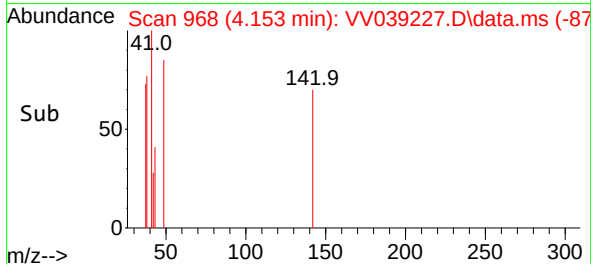
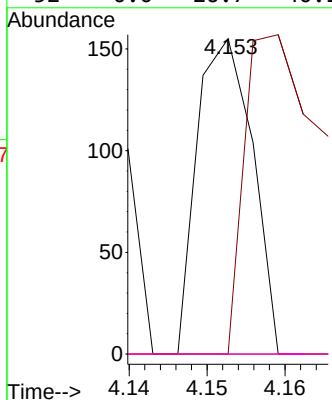


#41
Methacrylonitrile
Concen: 1.924 ug/l
RT: 4.153 min Scan# 90
Delta R.T. -0.000 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Instrument :
MSVOA_V
ClientSampleId :

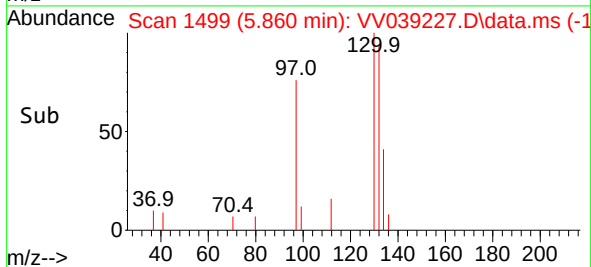
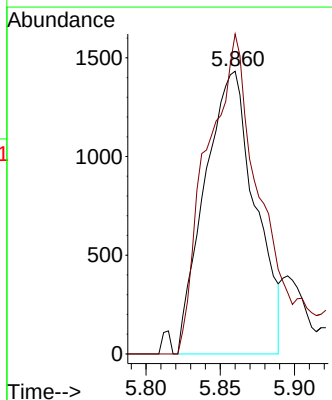
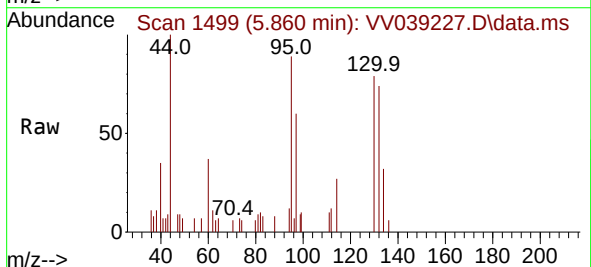


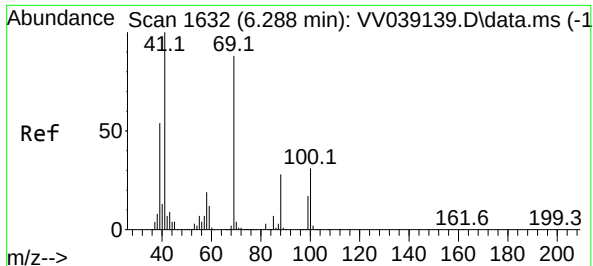
Tgt Ion:	41	Resp:	76
Ion	Ratio	Lower	Upper
41	100		
39	219.7	42.2	63.2#
67	0.0	67.9	101.9#
52	0.0	26.7	40.1#



#44
Trichloroethene
Concen: 0.456 ug/l
RT: 5.860 min Scan# 1499
Delta R.T. 0.032 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:	130	Resp:	3379
Ion	Ratio	Lower	Upper
130	100		
95	113.2	0.0	199.2





#49

1,4-Dioxane

Concen: 0.520 ug/l

RT: 6.037 min Scan# 1

Delta R.T. -0.251 min

Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

Instrument :

MSVOA_V

ClientSampleId :

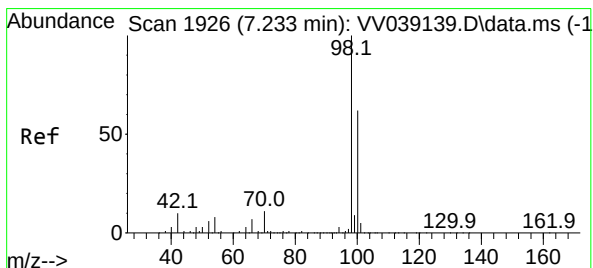
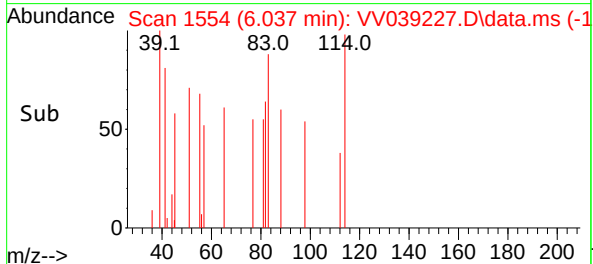
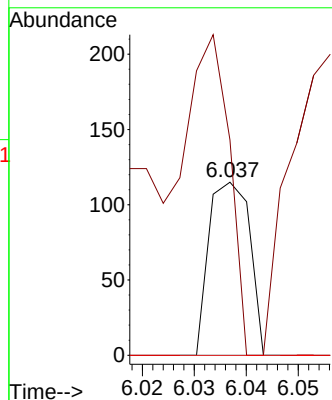
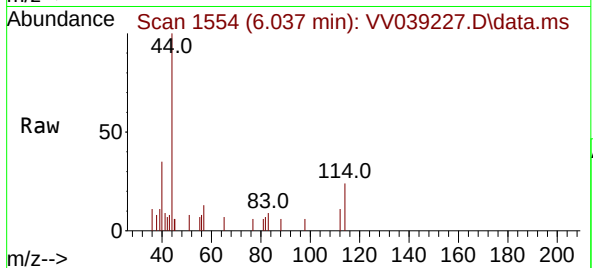
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 314.5 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 45.711 ug/l

RT: 7.239 min Scan# 1928

Delta R.T. 0.006 min

Lab File: VV039227.D

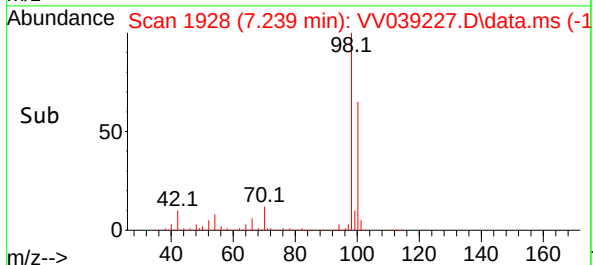
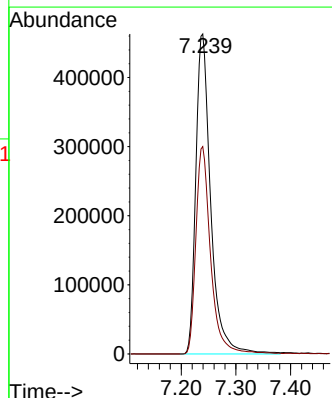
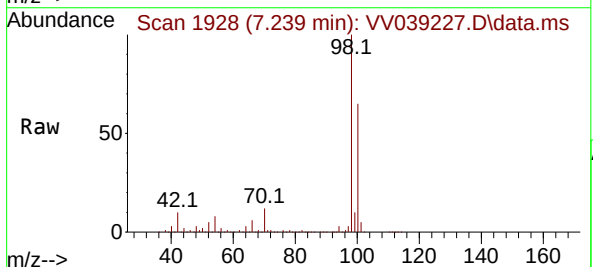
Acq: 29 Sep 2025 13:31

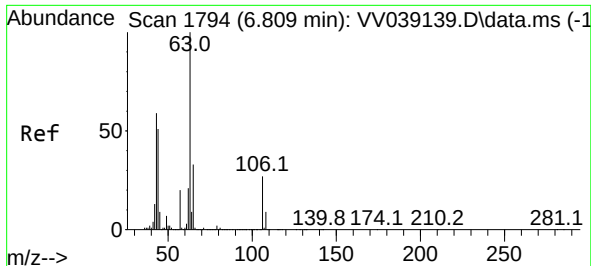
Tgt Ion: 98 Resp: 875398

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2

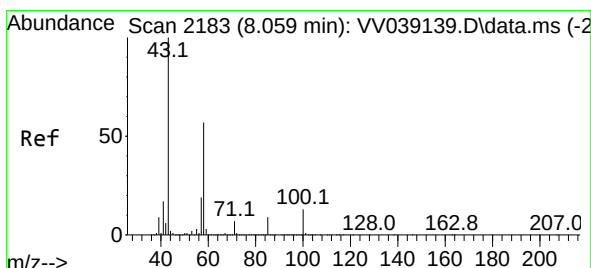
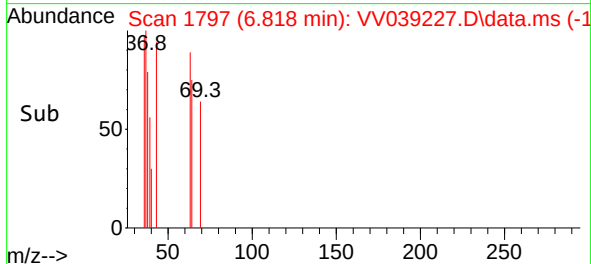
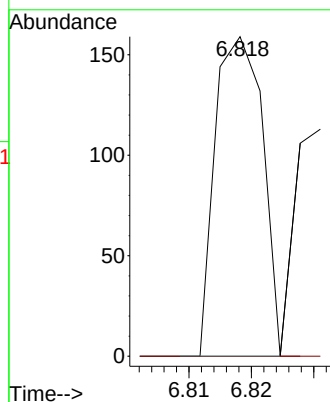
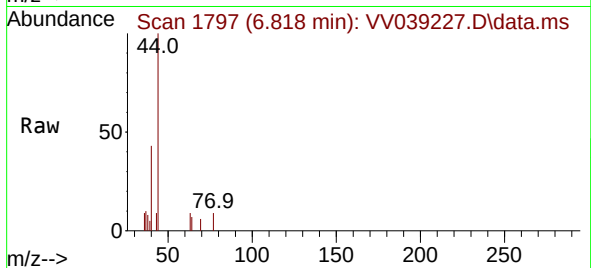




#58
2-Chloroethyl Vinyl ether
Concen: 9.637 ug/l
RT: 6.818 min Scan# 11
Delta R.T. 0.009 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

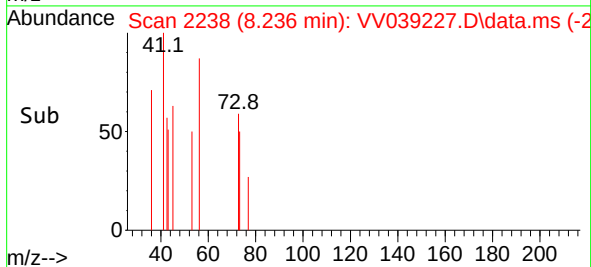
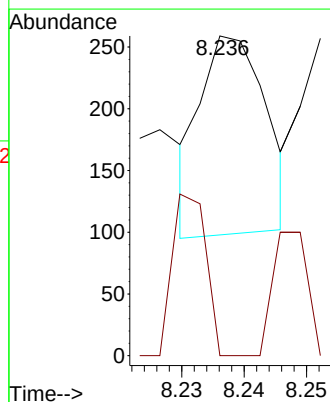
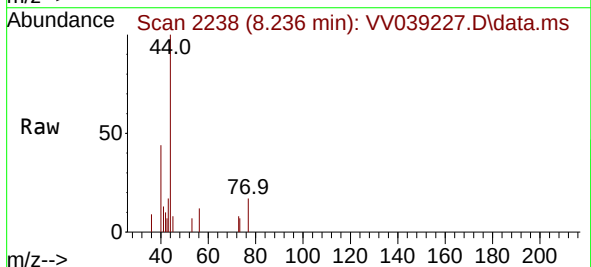
Instrument :
MSVOA_V
ClientSampleId :

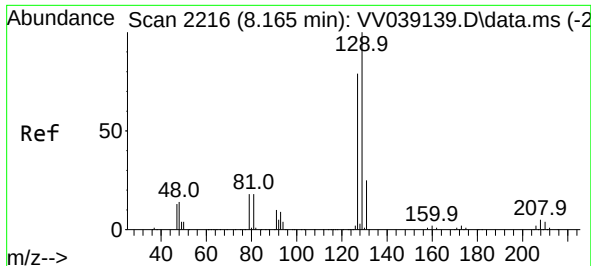
Tgt Ion: 63 Resp: 84
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.339 ug/l
RT: 8.236 min Scan# 2238
Delta R.T. 0.177 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 43 Resp: 118
Ion Ratio Lower Upper
43 100
58 41.5 28.3 85.0

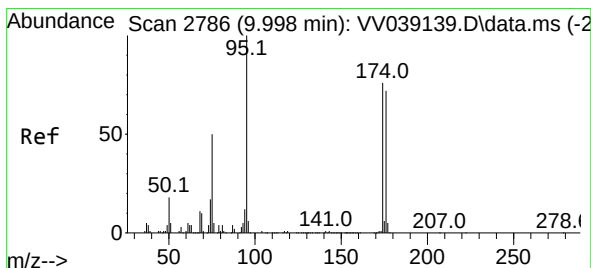
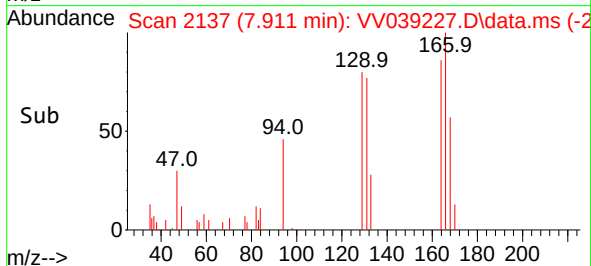
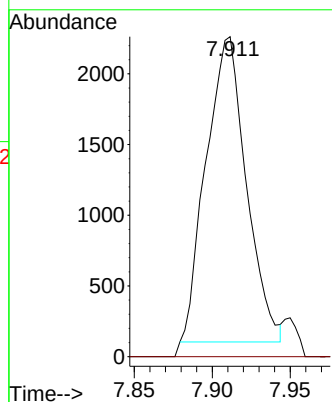
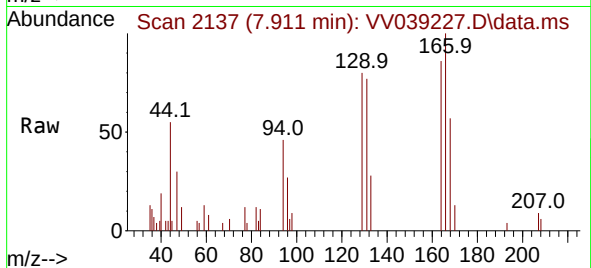




#60
Dibromochloromethane
Concen: 0.407 ug/l
RT: 7.911 min Scan# 2137
Delta R.T. -0.254 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

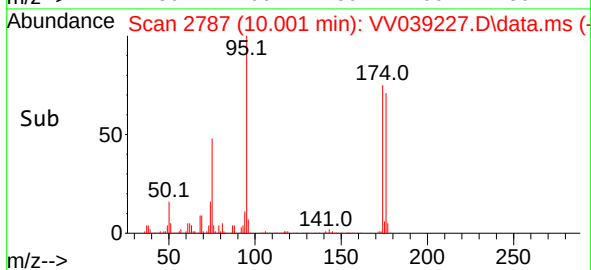
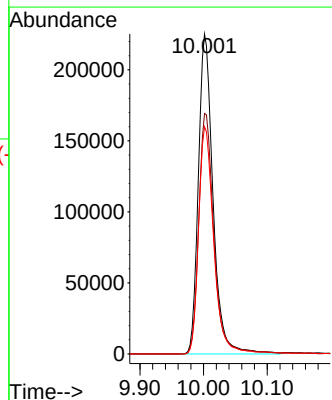
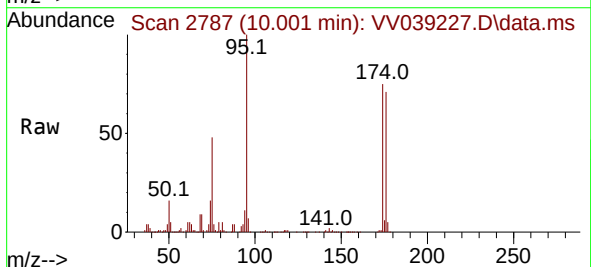
Instrument :
MSVOA_V
ClientSampleId :

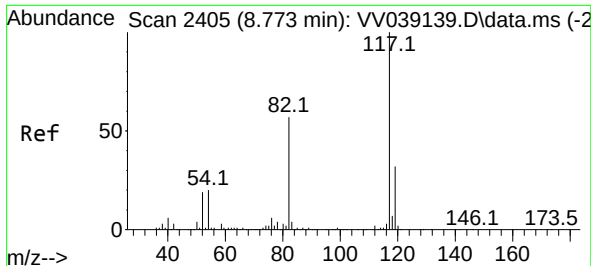
Tgt Ion:129 Resp: 3867
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.9#



#62
4-Bromofluorobenzene
Concen: 45.805 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 95 Resp: 361112
Ion Ratio Lower Upper
95 100
174 78.0 0.0 150.4
176 72.9 0.0 144.2

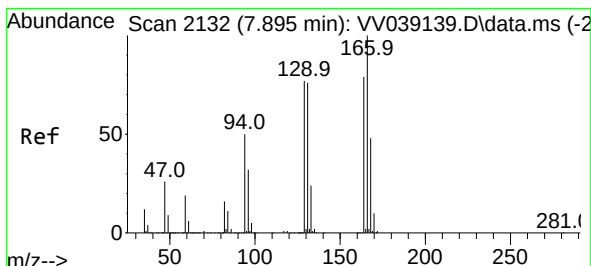
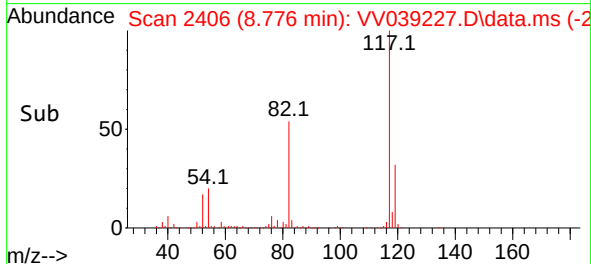
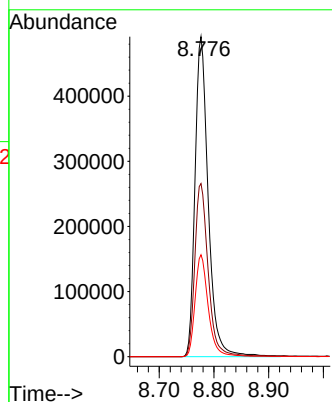
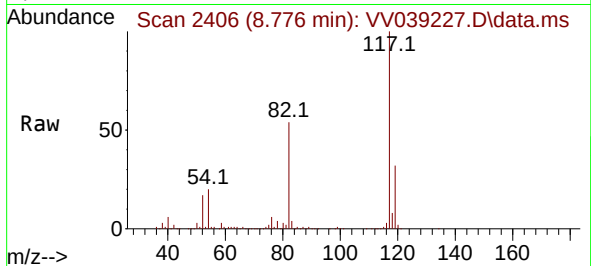




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

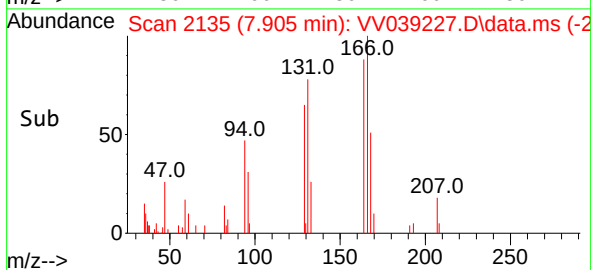
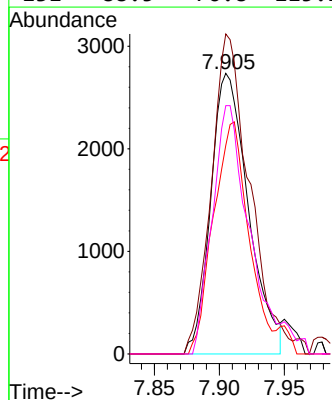
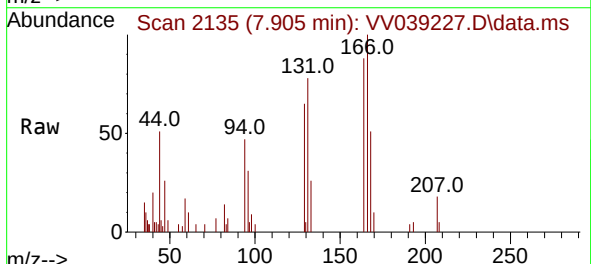
Instrument :
MSVOA_V
ClientSampleId :

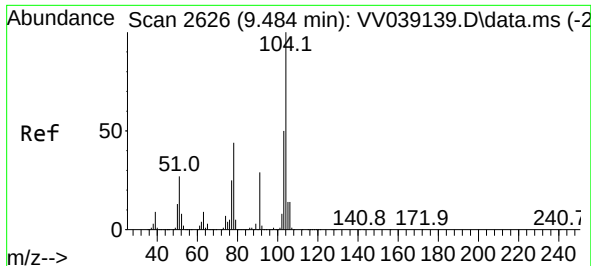
Tgt Ion:117 Resp: 824686
Ion Ratio Lower Upper
117 100
82 54.1 45.4 68.2
119 31.8 25.6 38.4



#64
Tetrachloroethene
Concen: 0.798 ug/l
RT: 7.905 min Scan# 2135
Delta R.T. 0.010 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:164 Resp: 5510
Ion Ratio Lower Upper
164 100
166 114.0 101.6 152.4
129 74.3 78.5 117.7#
131 88.5 76.8 115.2

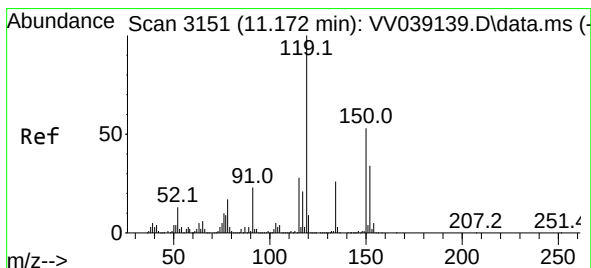
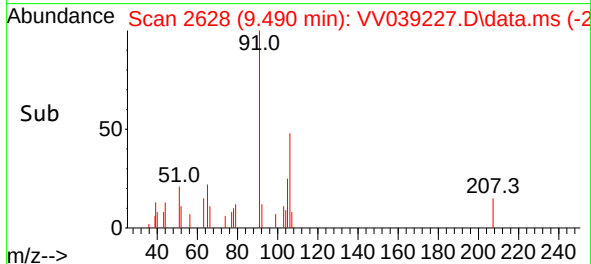
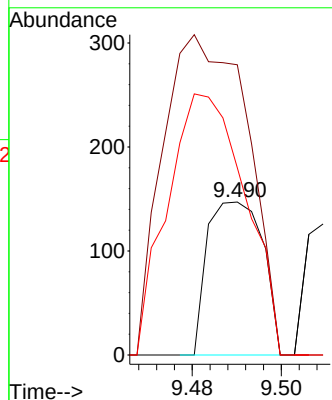
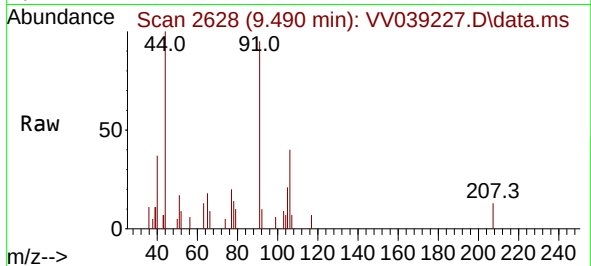




#70
Styrene
Concen: 1.566 ug/l
RT: 9.490 min Scan# 20
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

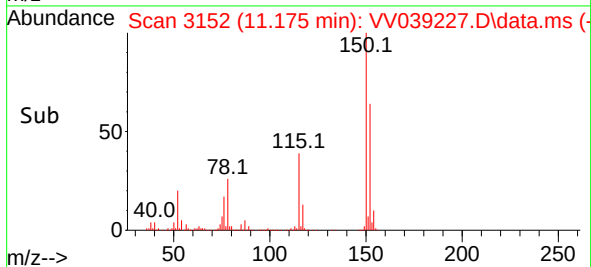
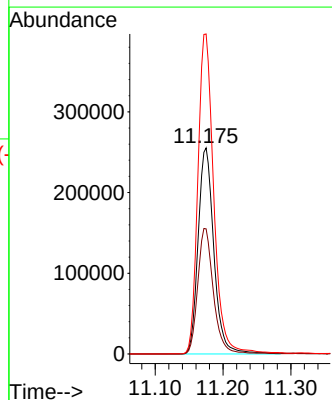
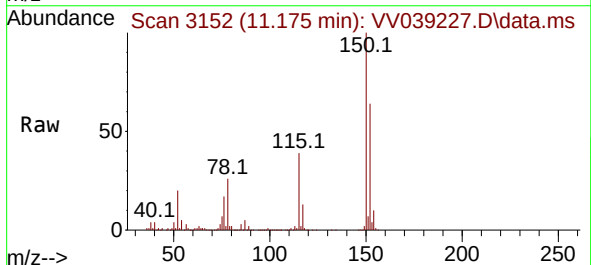
Instrument :
MSVOA_V
ClientSampleId :

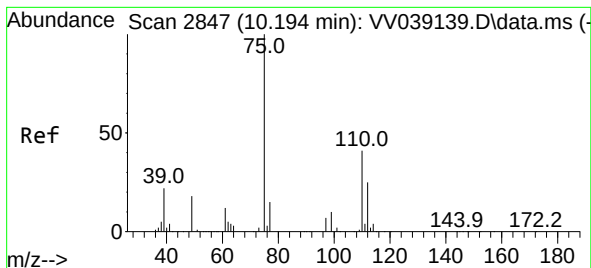
Tgt Ion:104 Resp: 127
Ion Ratio Lower Upper
104 100
78 319.7 39.8 59.6#
103 239.4 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:152 Resp: 412882
Ion Ratio Lower Upper
152 100
115 60.6 44.8 134.4
150 156.5 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 18.671 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

Instrument :

MSVOA_V

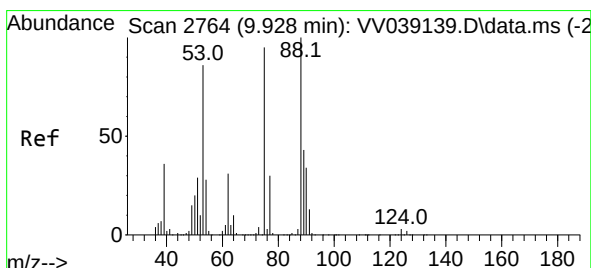
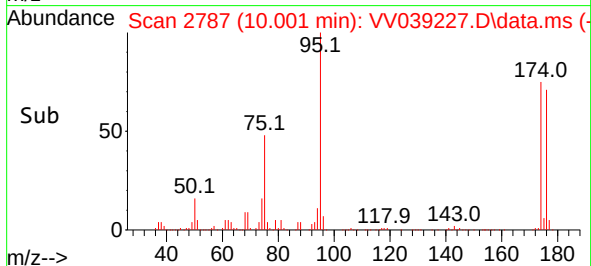
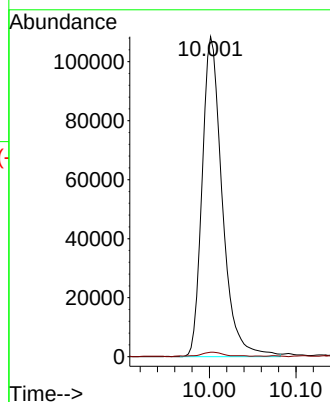
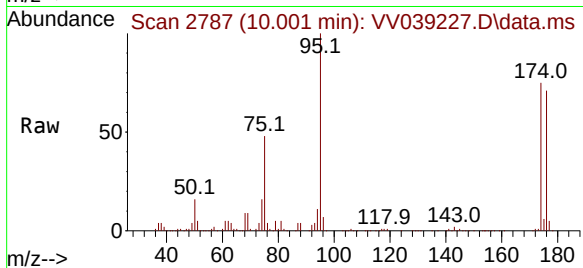
ClientSampleId :

Tgt Ion: 75 Resp: 175521

Ion Ratio Lower Upper

75 100

77 1.2 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 44.824 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039227.D

Acq: 29 Sep 2025 13:31

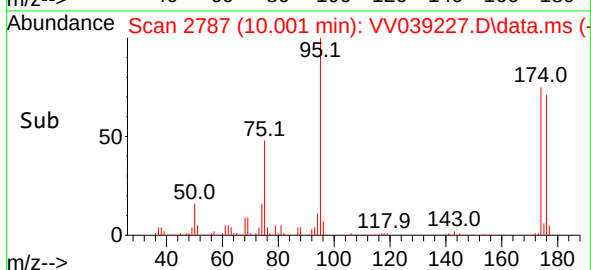
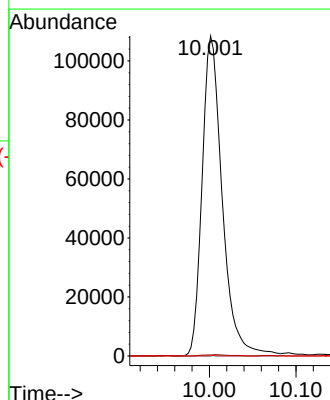
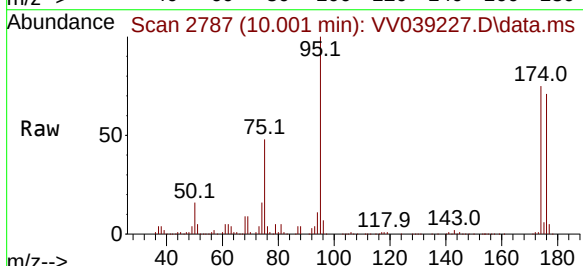
Tgt Ion: 75 Resp: 175521

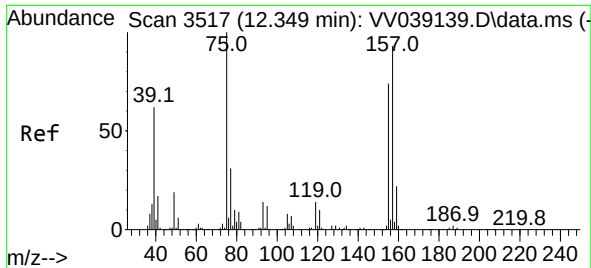
Ion Ratio Lower Upper

75 100

53 0.5 72.5 108.7#

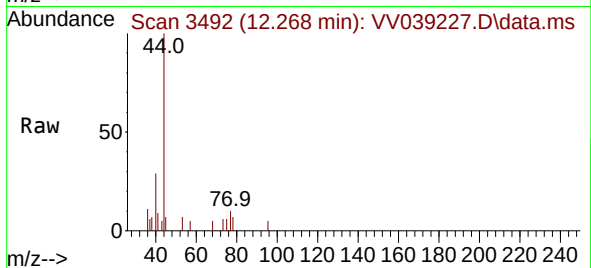
89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.268 min Scan# 34
 Delta R.T. -0.081 min
 Lab File: VV039227.D
 Acq: 29 Sep 2025 13:31

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	75	Resp:	44
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.6	115.8#
157	0.0	49.5	148.3#

