

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
 Data File : VV039160.D
 Acq On : 24 Sep 2025 18:07
 Operator : SY/MD
 Sample : Q3164-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DA-1

Quant Time: Sep 25 08:21:14 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)

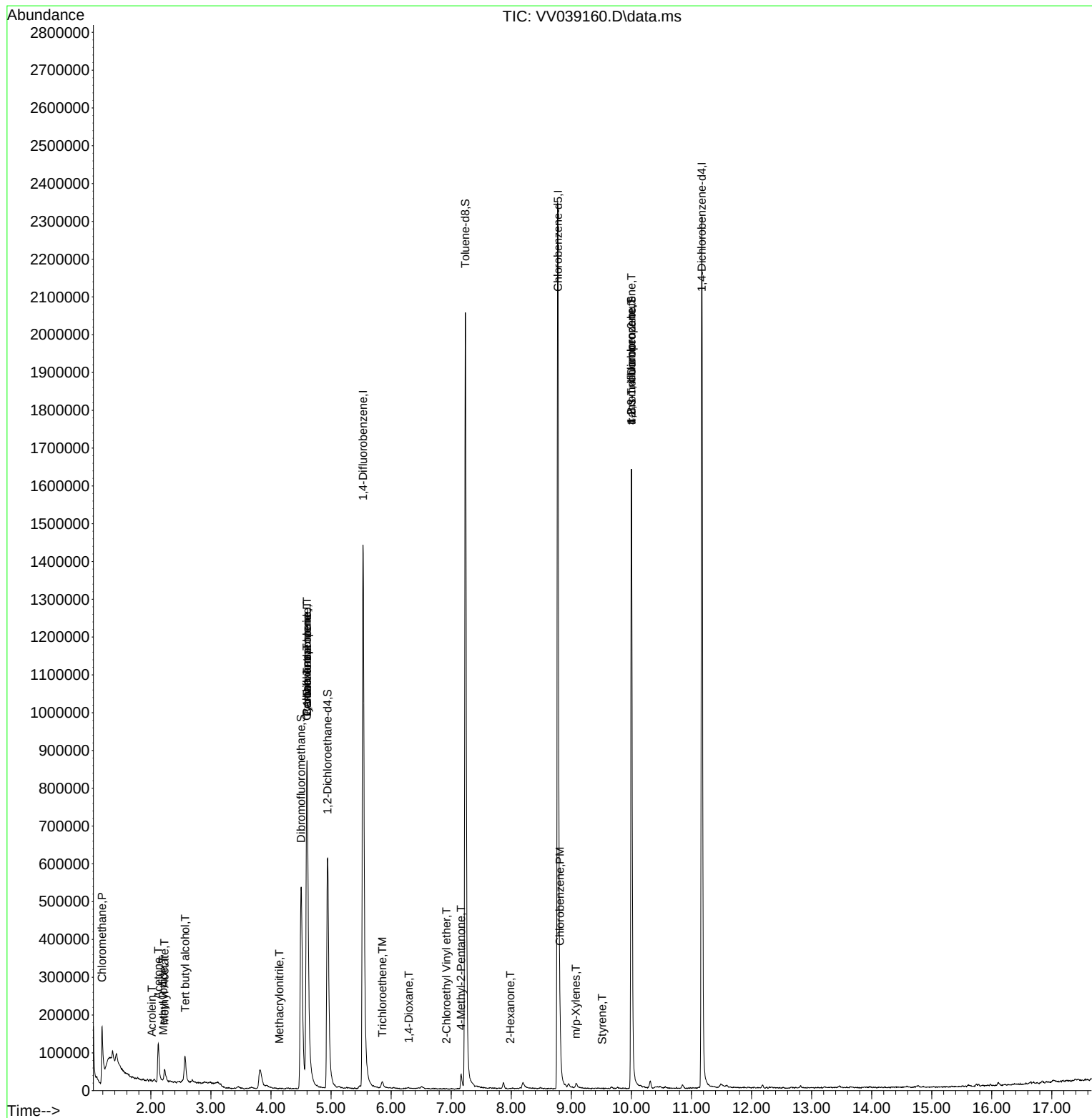
Internal Standards						
1) Pentafluorobenzene	4.600	168	739770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1401751	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1290012	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	589916	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	560410	52.342	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	104.680%
35) Dibromofluoromethane	4.503	113	451140	40.034	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	80.060%
50) Toluene-d8	7.236	98	1463568	44.221	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	88.440%#
62) 4-Bromofluorobenzene	10.001	95	554931	40.728	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	81.460%#
Target Compounds						
						Qvalue
3) Chloromethane	1.188	50	4495	0.358	ug/l #	43
6) Chloroethane	1.715	64	2765	Below Cal	#	62
10) Methyl Iodide	2.204	142	2414	0.219	ug/l #	57
11) Tert butyl alcohol	2.571	59	42660	18.852	ug/l #	83
13) Acrolein	2.014	56	585	1.490	ug/l #	54
16) Acetone	2.124	43	125333	13.774	ug/l	97
18) Methyl Acetate	2.227	43	9745	0.614	ug/l #	56
20) Methylene Chloride	2.458	84	1243	Below Cal	#	77
31) Cyclohexane	4.596	56	17549	0.919	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	63094	3.703	ug/l #	50
38) Carbon Tetrachloride	4.600	117	80066	3.845	ug/l #	17
41) Methacrylonitrile	4.140	41	161	1.927	ug/l #	19
44) Trichloroethene	5.854	130	6464	0.505	ug/l	97
49) 1,4-Dioxane	6.294	88	68	0.330	ug/l #	1
51) 4-Methyl-2-Pentanone	7.165	43	24301	1.310	ug/l	98
58) 2-Chloroethyl Vinyl ether	6.921	63	88	9.631	ug/l	99
59) 2-Hexanone	7.985	43	186	2.338	ug/l	91
65) Chlorobenzene	8.808	112	97239	2.706	ug/l	97
68) m/p-Xylenes	9.078	106	4632	0.221	ug/l	81
70) Styrene	9.513	104	78	1.563	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	286538	21.333	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	286538	51.215	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.297	75	45	Below Cal	#	5

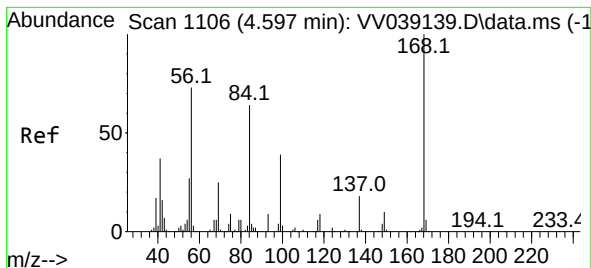
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
Data File : VV039160.D
Acq On : 24 Sep 2025 18:07
Operator : SY/MD
Sample : Q3164-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
DA-1

Quant Time: Sep 25 08:21:14 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: VV039160.D

Acq: 24 Sep 2025 18:07

Instrument :

MSVOA_V

ClientSampleId :

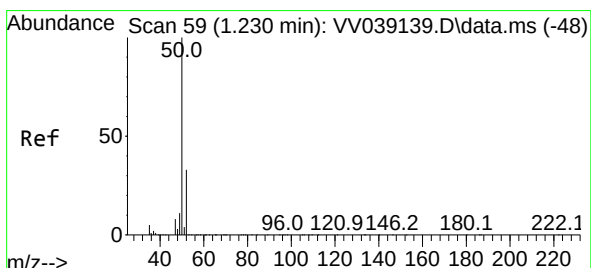
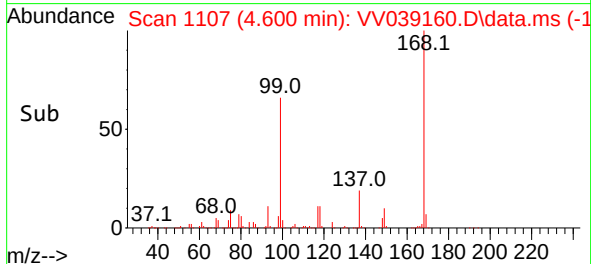
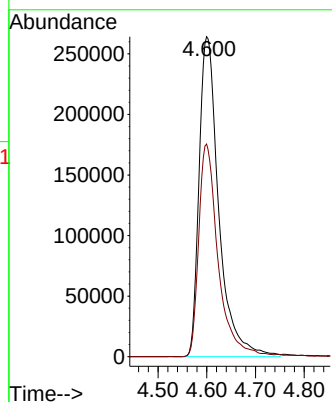
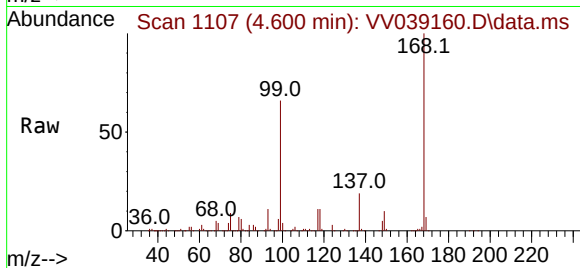
DA-1

Tgt Ion:168 Resp: 739770

Ion Ratio Lower Upper

168 100

99 66.5 49.6 74.4



#3

Chloromethane

Concen: 0.358 ug/l

RT: 1.188 min Scan# 46

Delta R.T. -0.042 min

Lab File: VV039160.D

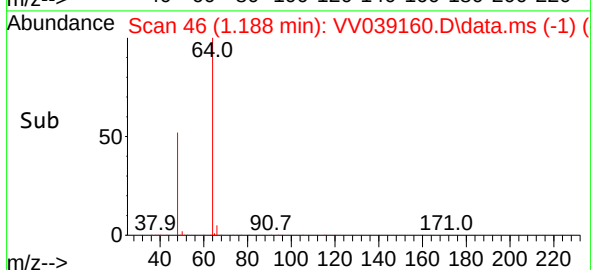
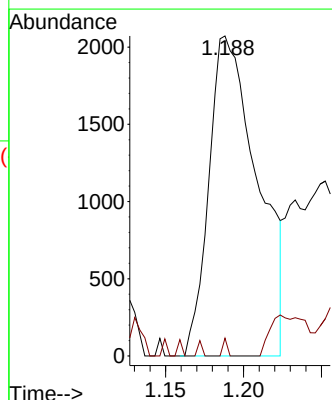
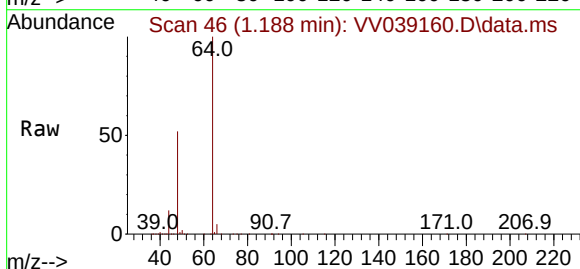
Acq: 24 Sep 2025 18:07

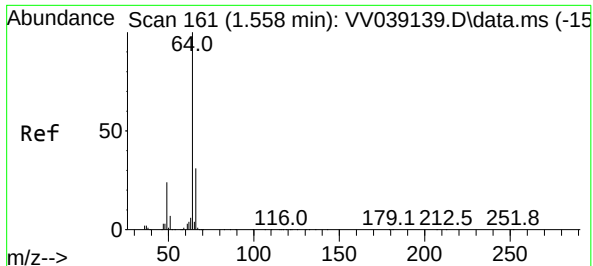
Tgt Ion: 50 Resp: 4495

Ion Ratio Lower Upper

50 100

52 0.4 26.0 39.0#

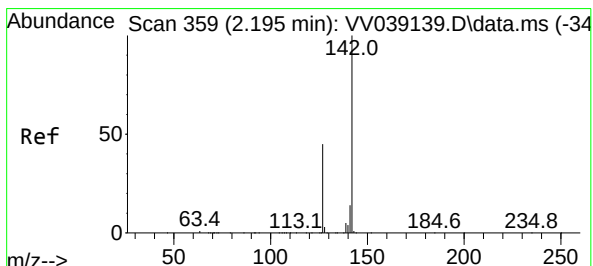
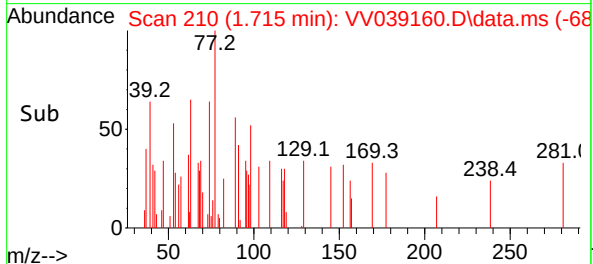
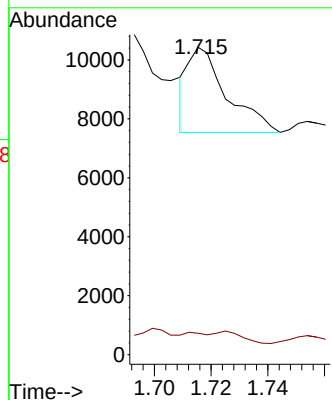
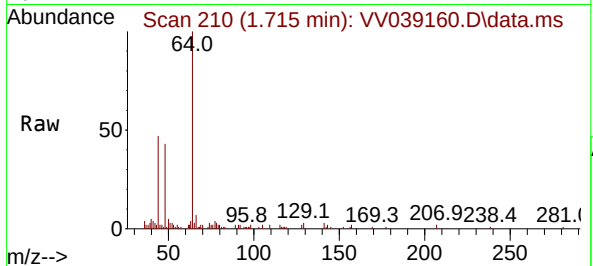




#6
Chloroethane
Concen: Below Cal
RT: 1.715 min Scan# 21
Delta R.T. 0.157 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

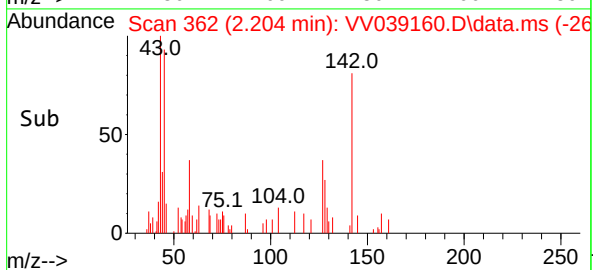
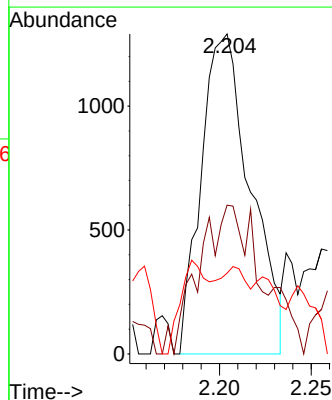
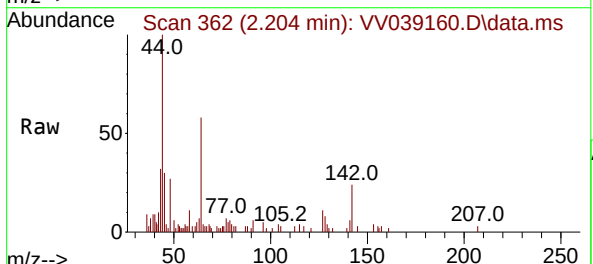
Instrument :
MSVOA_V
ClientSampleId :
DA-1

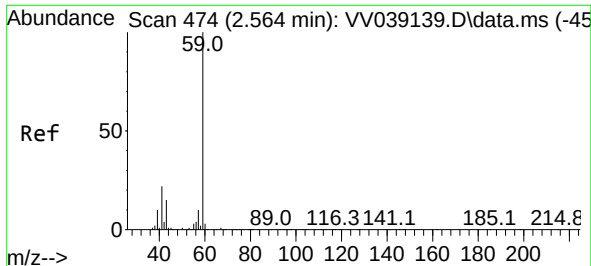
Tgt Ion: 64 Resp: 2765
Ion Ratio Lower Upper
64 100
66 9.7 24.6 36.8#



#10
Methyl Iodide
Concen: 0.219 ug/l
RT: 2.204 min Scan# 362
Delta R.T. 0.009 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion:142 Resp: 2414
Ion Ratio Lower Upper
142 100
127 15.7 36.3 54.5#
141 0.0 11.2 16.8#

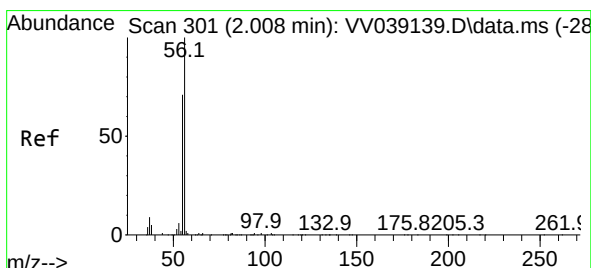
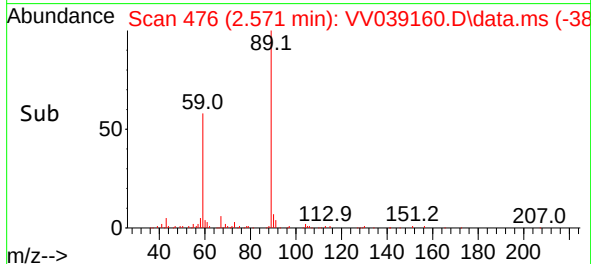
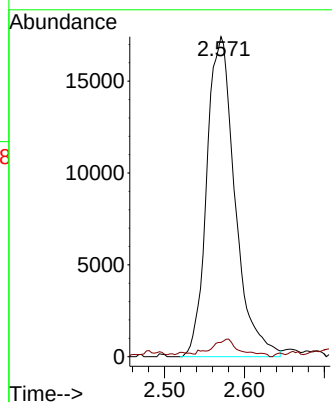
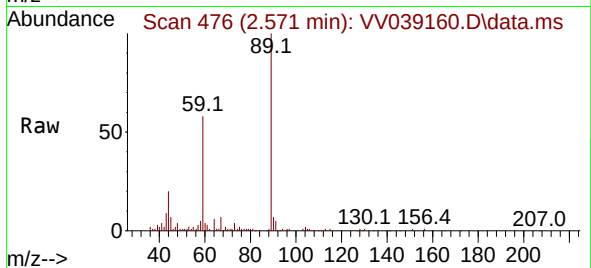




#11
Tert butyl alcohol
Concen: 18.852 ug/l
RT: 2.571 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

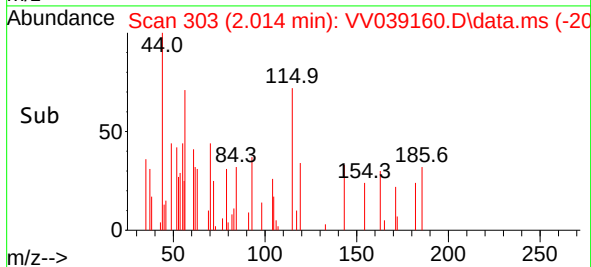
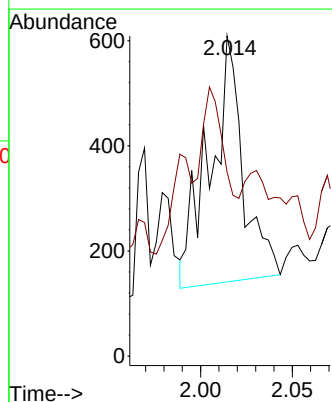
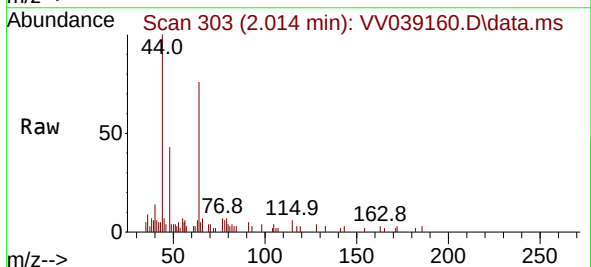
Instrument :
MSVOA_V
ClientSampleId :
DA-1

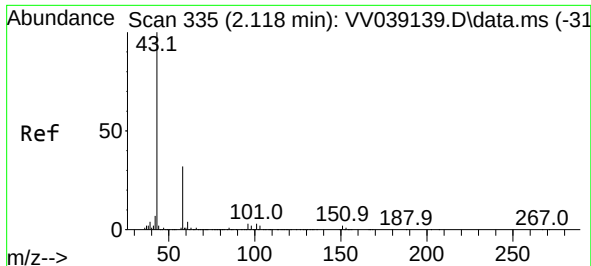
Tgt Ion: 59 Resp: 42660
Ion Ratio Lower Upper
59 100
57 3.4 7.8 11.8#



#13
Acrolein
Concen: 1.490 ug/l
RT: 2.014 min Scan# 303
Delta R.T. 0.006 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion: 56 Resp: 585
Ion Ratio Lower Upper
56 100
55 32.8 56.2 84.4#

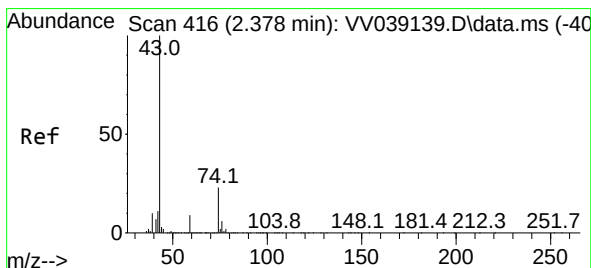
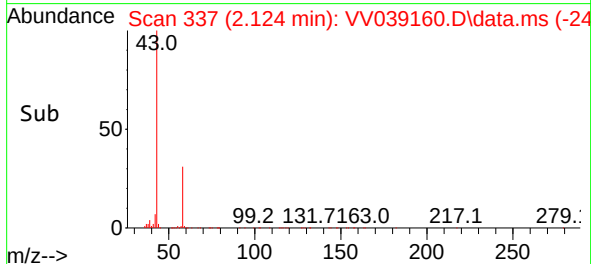
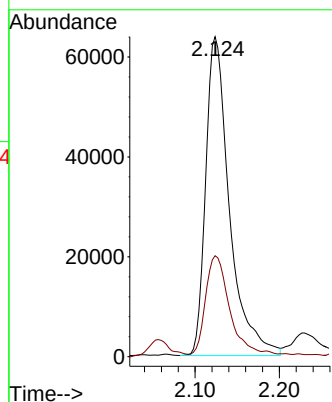
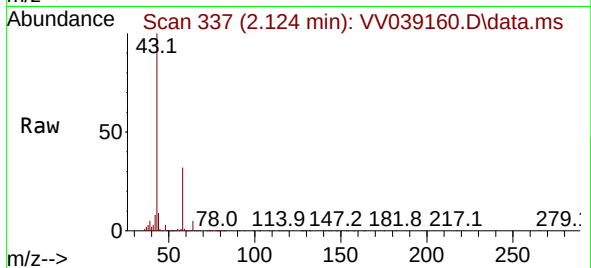




#16
Acetone
Concen: 13.774 ug/l
RT: 2.124 min Scan# 311
Delta R.T. 0.006 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

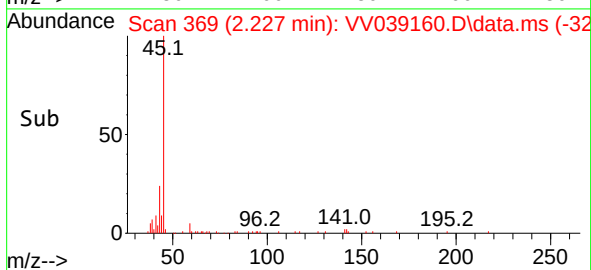
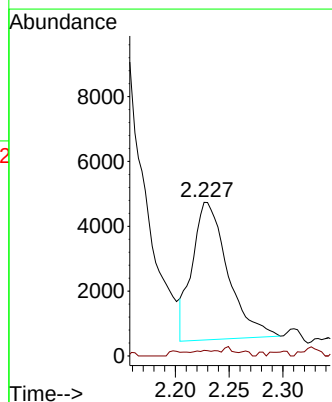
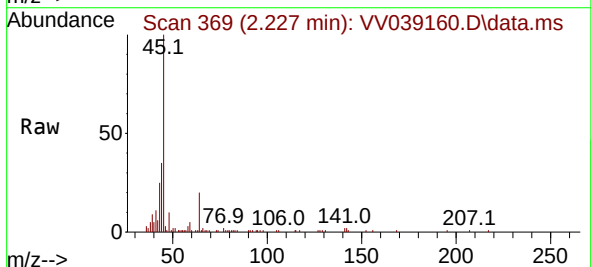
Instrument :
MSVOA_V
ClientSampleId :
DA-1

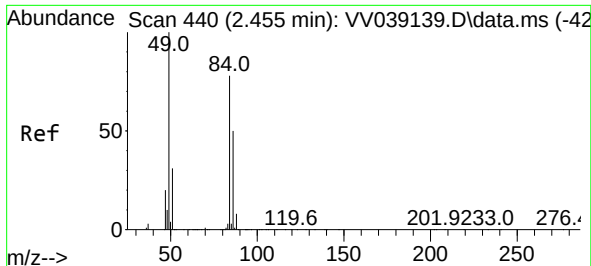
Tgt Ion: 43 Resp: 125333
Ion Ratio Lower Upper
43 100
58 30.8 25.8 38.6



#18
Methyl Acetate
Concen: 0.614 ug/l
RT: 2.227 min Scan# 369
Delta R.T. -0.151 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion: 43 Resp: 9745
Ion Ratio Lower Upper
43 100
74 1.7 18.6 27.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.458 min Scan# 440

Delta R.T. 0.003 min

Lab File: VV039160.D

Acq: 24 Sep 2025 18:07

Instrument :

MSVOA_V

ClientSampleId :

DA-1

Tgt Ion: 84 Resp: 1243

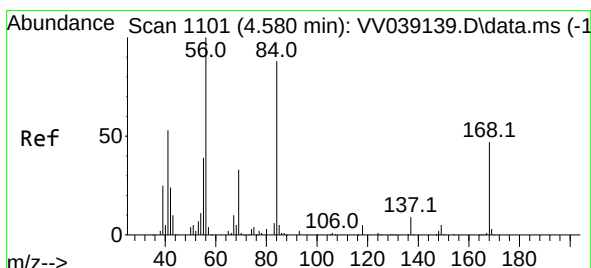
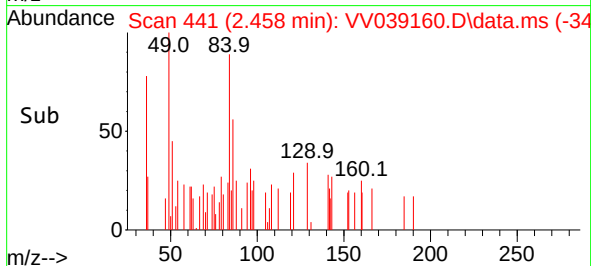
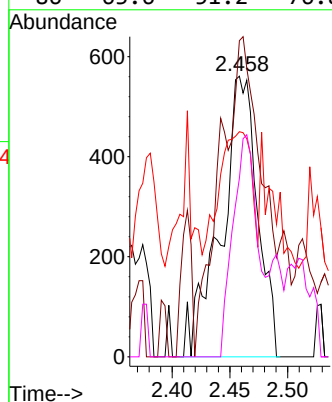
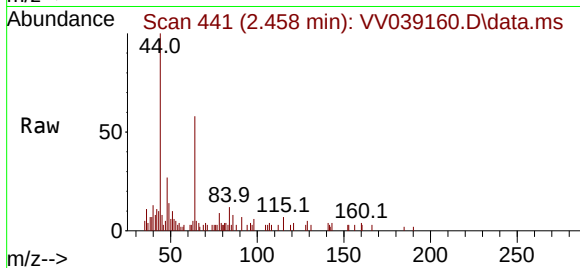
Ion Ratio Lower Upper

84 100

49 87.0 102.8 154.2#

51 29.4 31.9 47.9#

86 63.6 51.2 76.8



#31

Cyclohexane

Concen: 0.919 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. 0.016 min

Lab File: VV039160.D

Acq: 24 Sep 2025 18:07

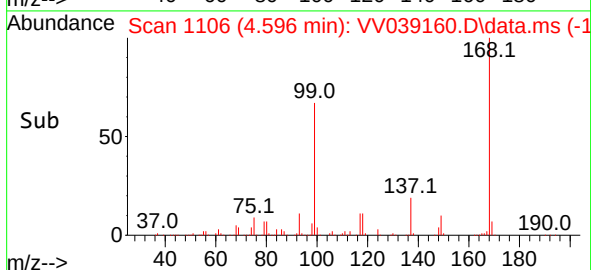
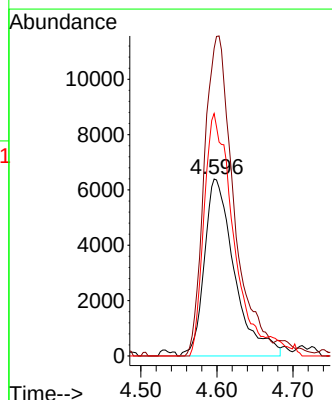
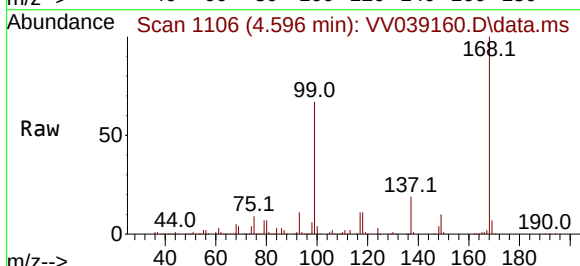
Tgt Ion: 56 Resp: 17549

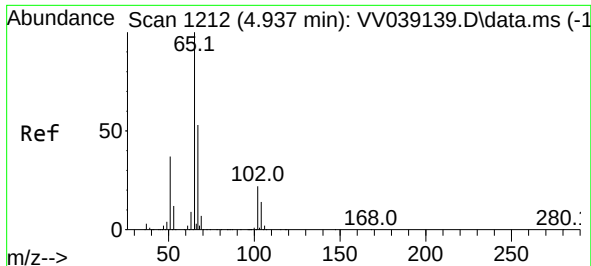
Ion Ratio Lower Upper

56 100

69 173.7 26.2 39.2#

84 136.9 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 52.342 ug/l

RT: 4.940 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039160.D

Acq: 24 Sep 2025 18:07

Instrument :

MSVOA_V

ClientSampleId :

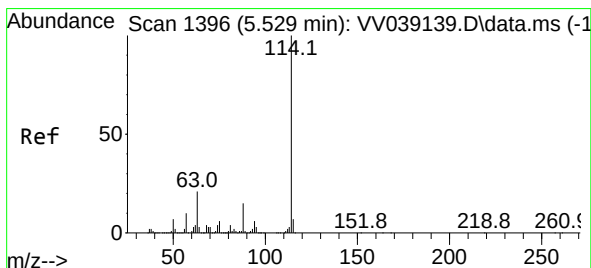
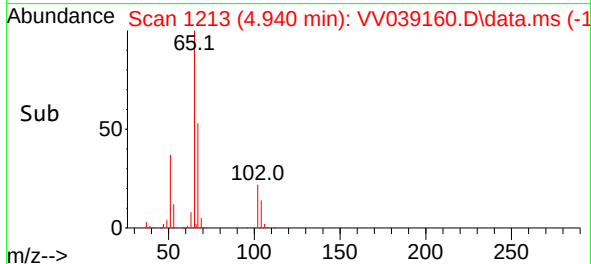
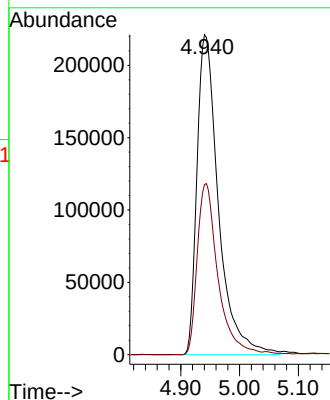
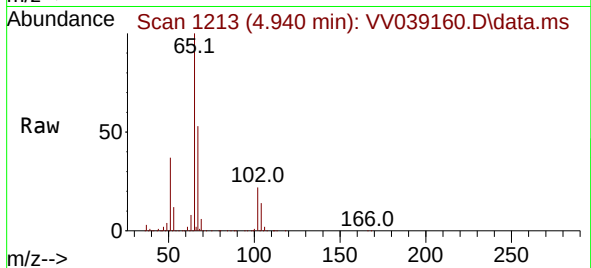
DA-1

Tgt Ion: 65 Resp: 560410

Ion Ratio Lower Upper

65 100

67 51.3 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039160.D

Acq: 24 Sep 2025 18:07

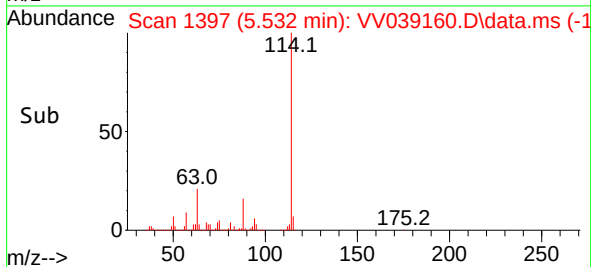
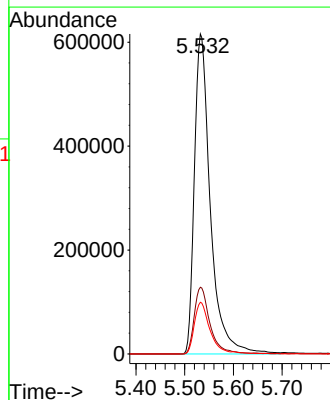
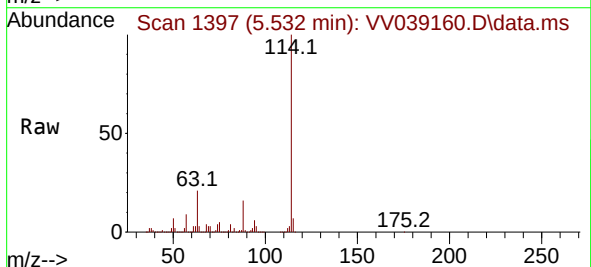
Tgt Ion:114 Resp: 1401751

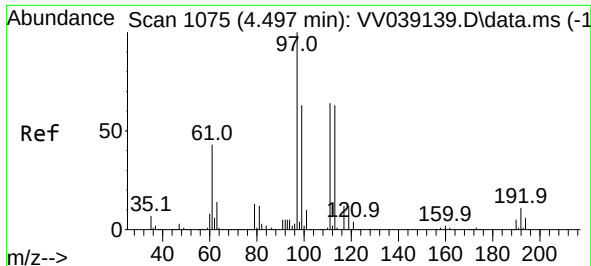
Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

88 16.1 0.0 30.8

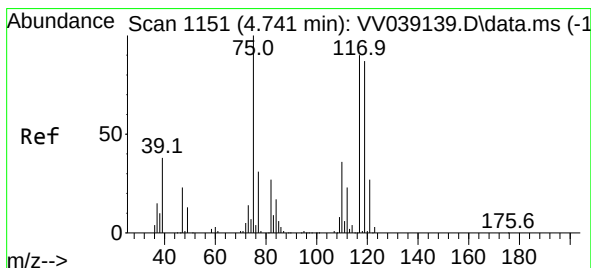
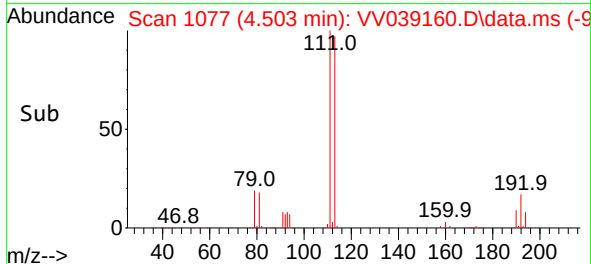
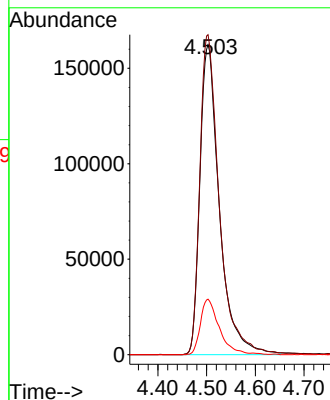
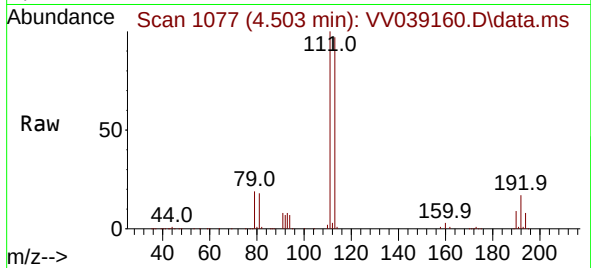




#35
Dibromofluoromethane
Concen: 40.034 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

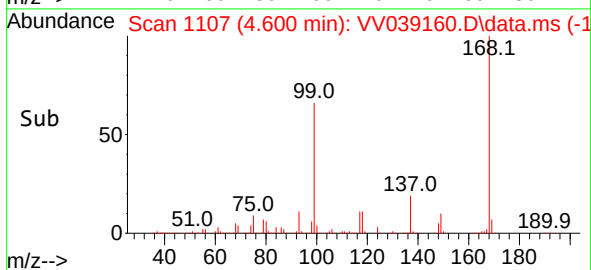
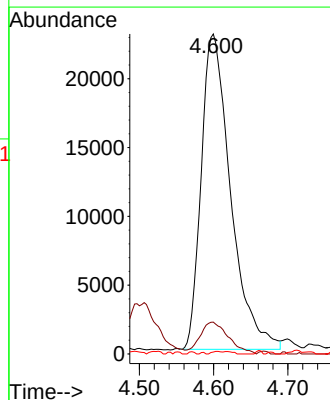
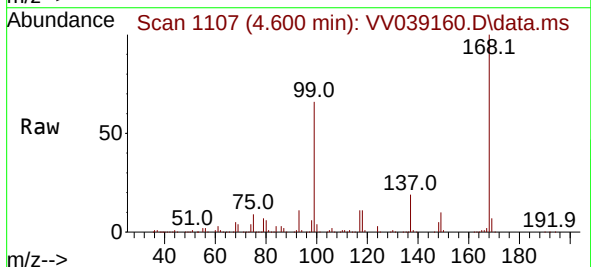
Instrument :
MSVOA_V
ClientSampleId :
DA-1

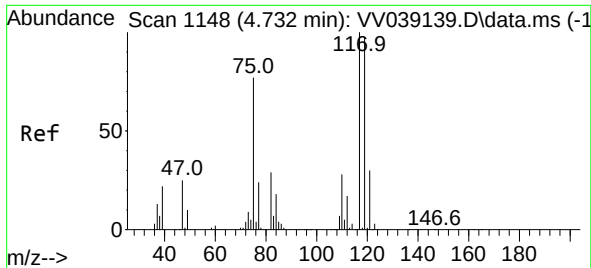
Tgt Ion:113 Resp: 451140
Ion Ratio Lower Upper
113 100
111 102.6 82.4 123.6
192 17.2 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.703 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion: 75 Resp: 63094
Ion Ratio Lower Upper
75 100
110 9.7 18.1 54.1#
77 0.3 24.8 37.2#

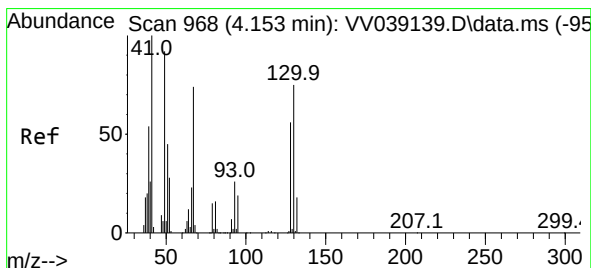
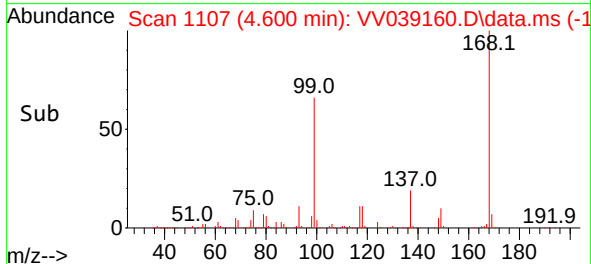
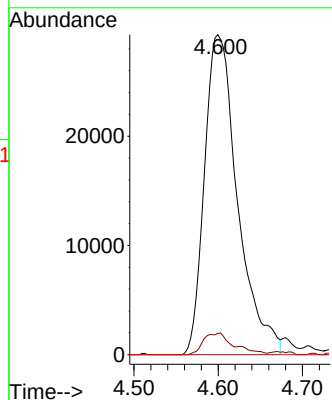
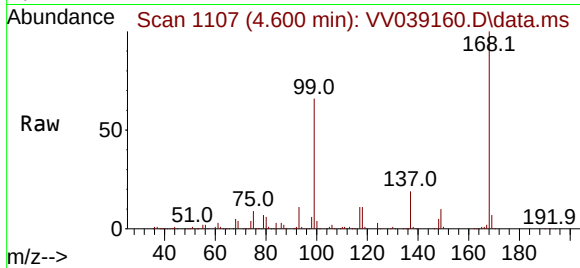




#38
Carbon Tetrachloride
Concen: 3.845 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

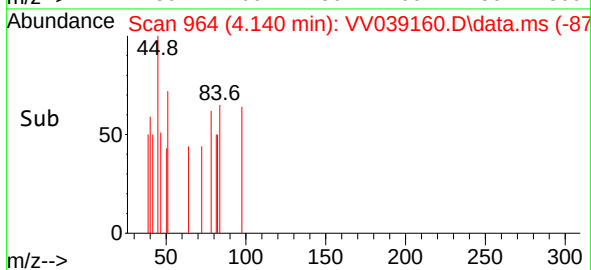
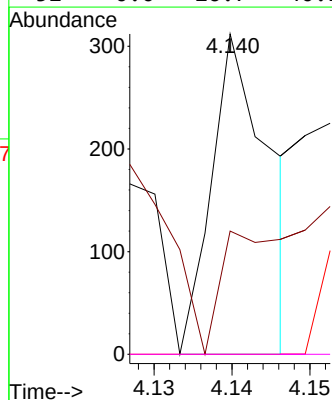
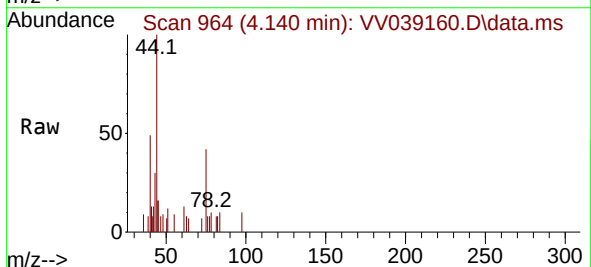
Instrument :
MSVOA_V
ClientSampleId :
DA-1

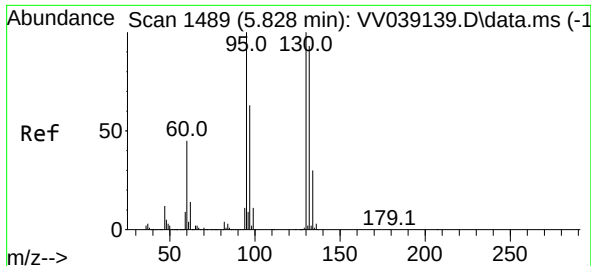
Tgt Ion:117 Resp: 80066
Ion Ratio Lower Upper
117 100
119 6.7 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.927 ug/l
RT: 4.140 min Scan# 964
Delta R.T. -0.013 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion: 41 Resp: 161
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#

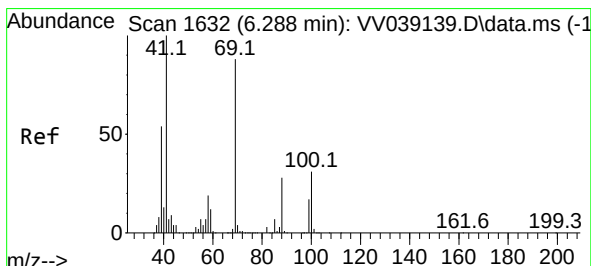
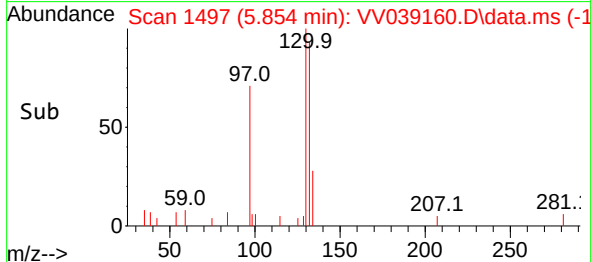
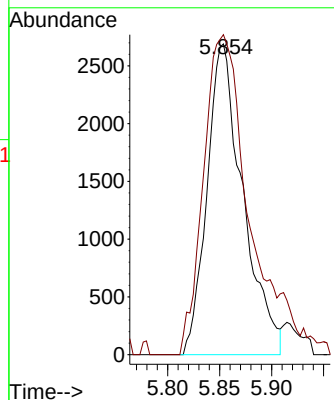
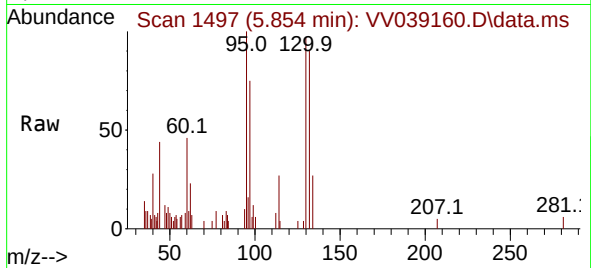




#44
 Trichloroethene
 Concen: 0.505 ug/l
 RT: 5.854 min Scan# 1497
 Delta R.T. 0.026 min
 Lab File: VV039160.D
 Acq: 24 Sep 2025 18:07

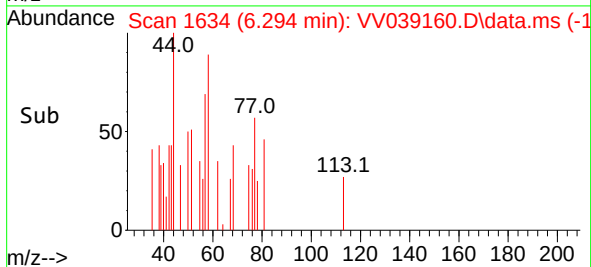
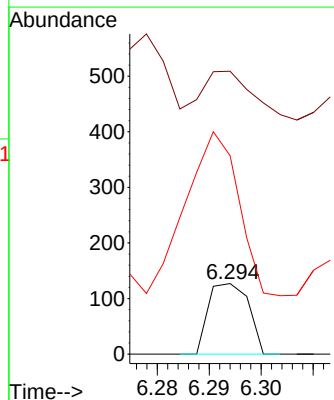
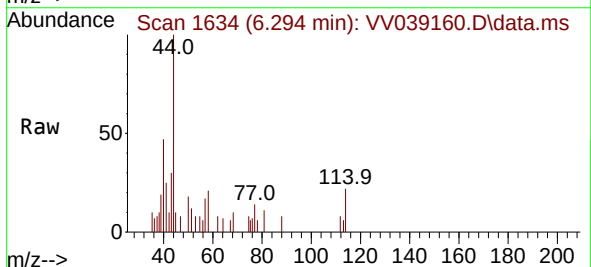
Instrument :
 MSVOA_V
 ClientSampleId :
 DA-1

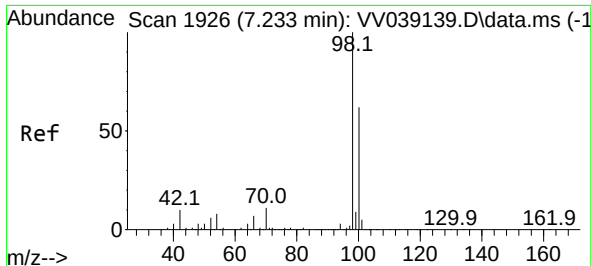
Tgt Ion:130 Resp: 6464
 Ion Ratio Lower Upper
 130 100
 95 103.0 0.0 199.2



#49
 1,4-Dioxane
 Concen: 0.330 ug/l
 RT: 6.294 min Scan# 1634
 Delta R.T. 0.006 min
 Lab File: VV039160.D
 Acq: 24 Sep 2025 18:07

Tgt Ion: 88 Resp: 68
 Ion Ratio Lower Upper
 88 100
 43 0.0 25.1 37.7#
 58 367.6 53.6 80.4#

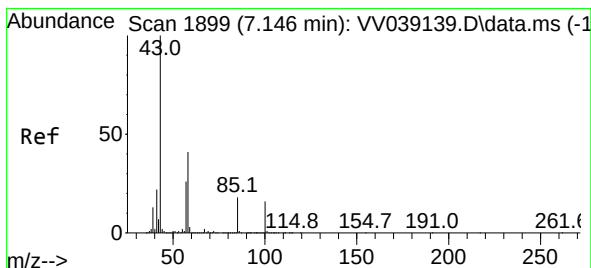
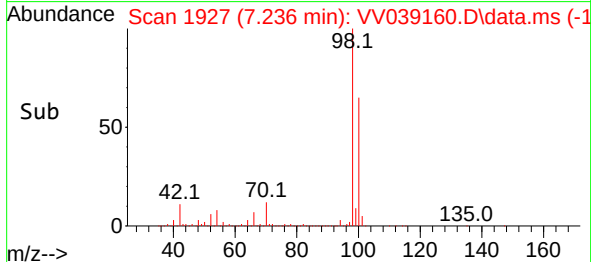
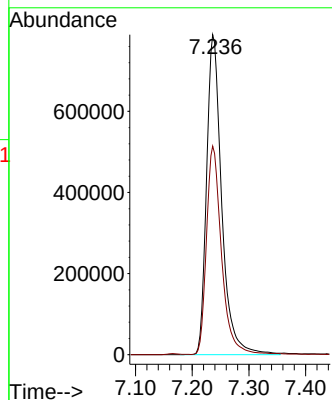
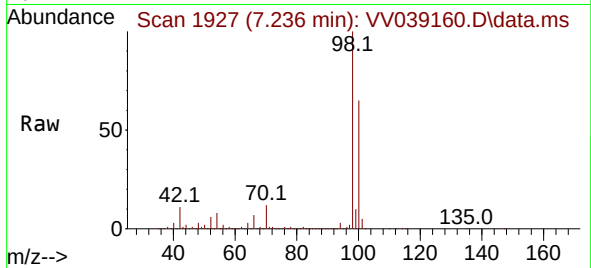




#50
Toluene-d8
Concen: 44.221 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

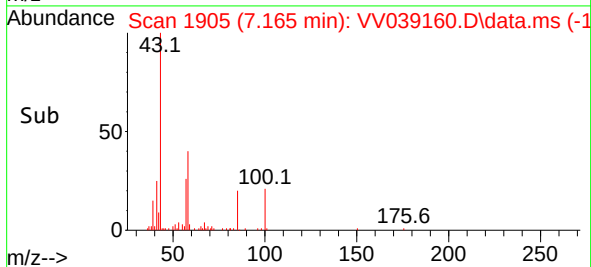
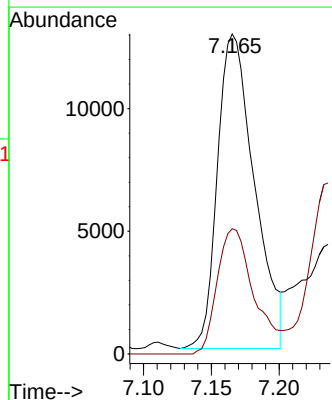
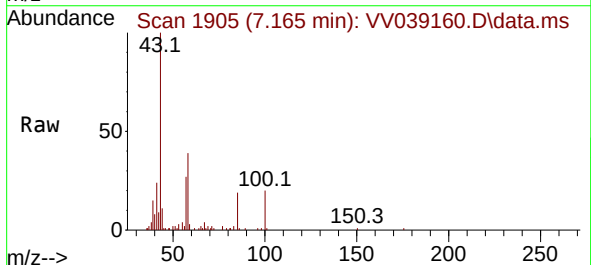
Instrument :
MSVOA_V
ClientSampleId :
DA-1

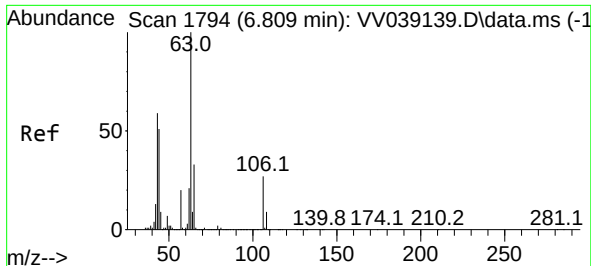
Tgt Ion: 98 Resp: 1463568
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.310 ug/l
RT: 7.165 min Scan# 1905
Delta R.T. 0.019 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion: 43 Resp: 24301
Ion Ratio Lower Upper
43 100
58 39.4 32.3 48.5

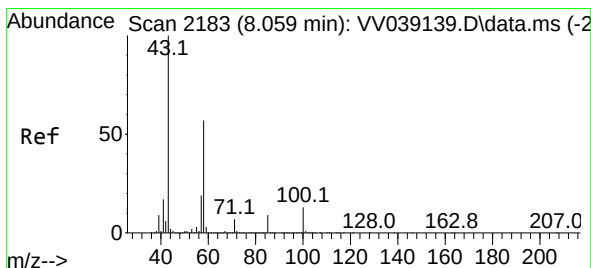
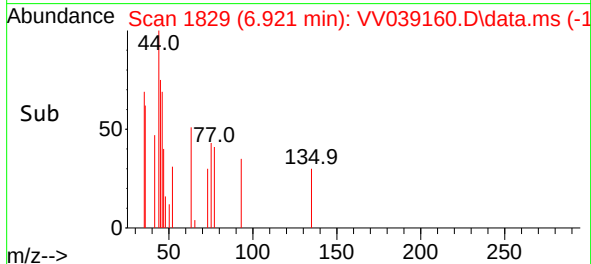
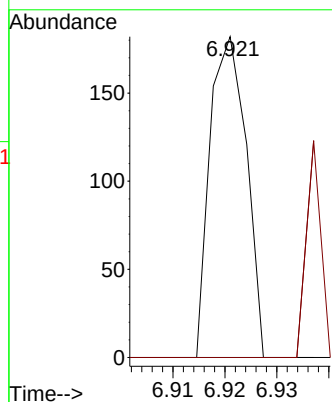
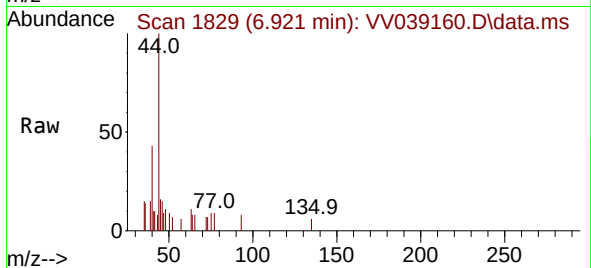




#58
2-Chloroethyl Vinyl ether
Concen: 9.631 ug/l
RT: 6.921 min Scan# 11
Delta R.T. 0.112 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

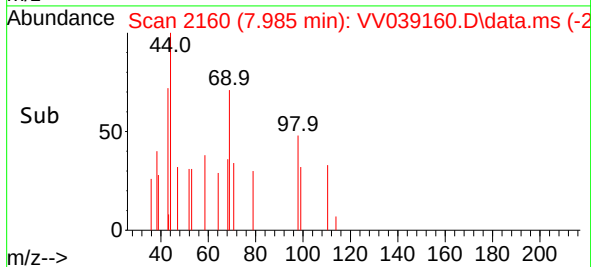
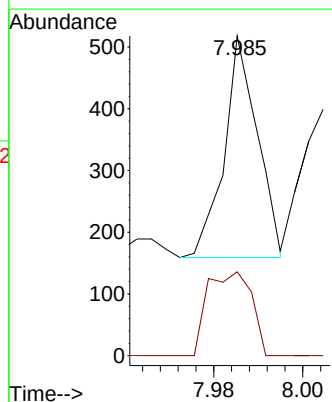
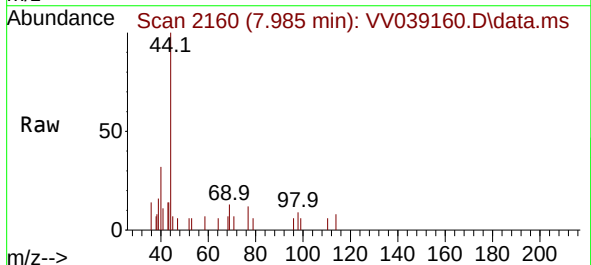
Instrument :
MSVOA_V
ClientSampleId :
DA-1

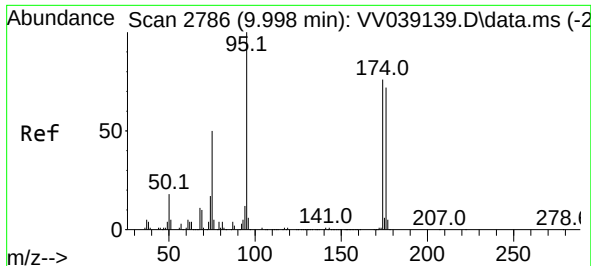
Tgt Ion: 63 Resp: 88
Ion Ratio Lower Upper
63 100
106 27.3 22.1 33.1



#59
2-Hexanone
Concen: 2.338 ug/l
RT: 7.985 min Scan# 2160
Delta R.T. -0.074 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion: 43 Resp: 186
Ion Ratio Lower Upper
43 100
58 50.0 28.3 85.0

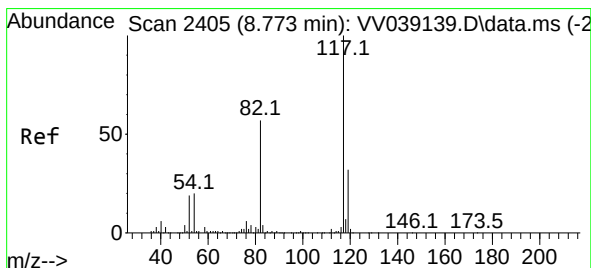
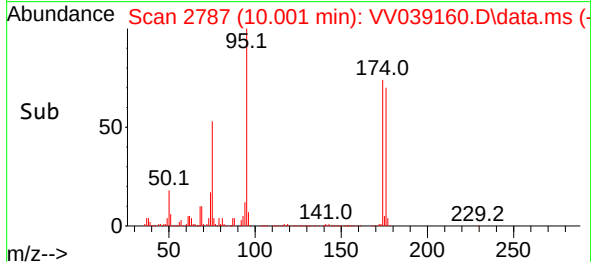
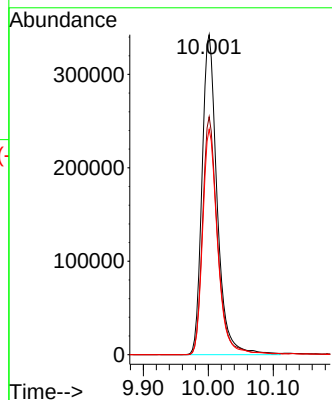
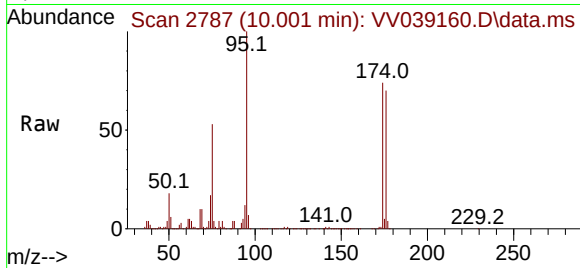




#62
4-Bromofluorobenzene
Concen: 40.728 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

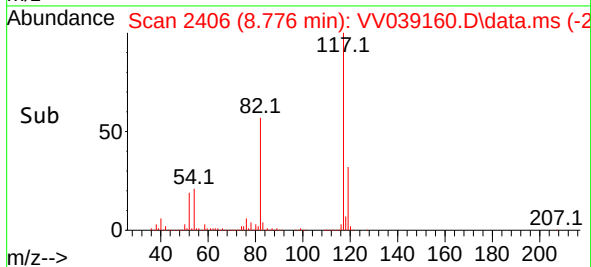
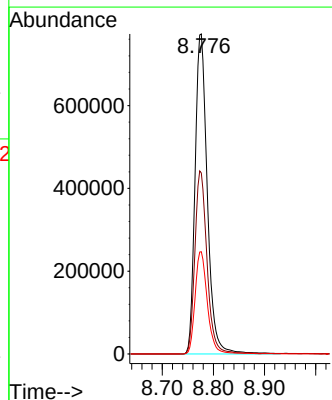
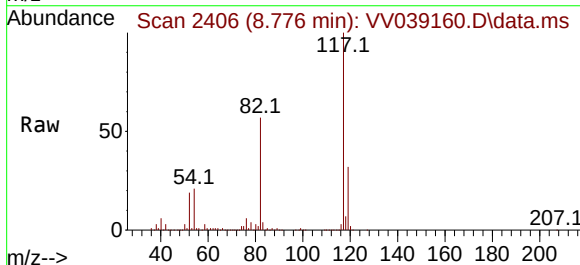
Instrument :
MSVOA_V
ClientSampleId :
DA-1

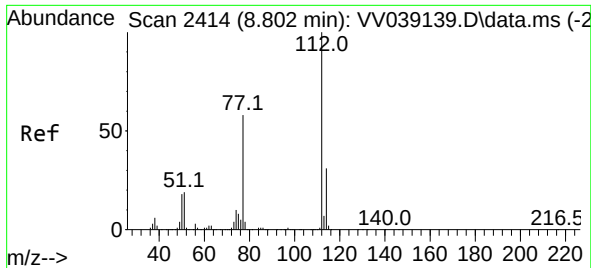
Tgt Ion: 95 Resp: 554931
Ion Ratio Lower Upper
95 100
174 73.8 0.0 150.4
176 70.1 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion: 117 Resp: 1290012
Ion Ratio Lower Upper
117 100
82 56.6 45.4 68.2
119 32.0 25.6 38.4

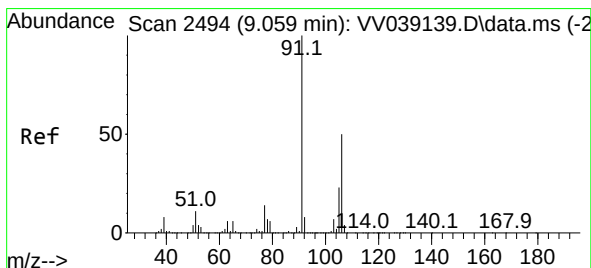
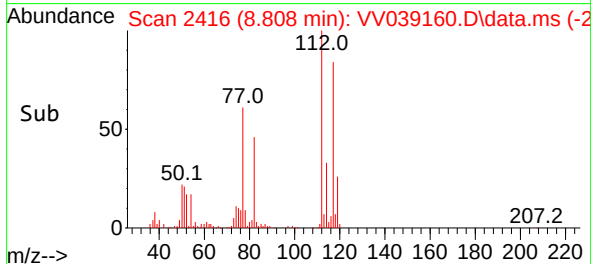
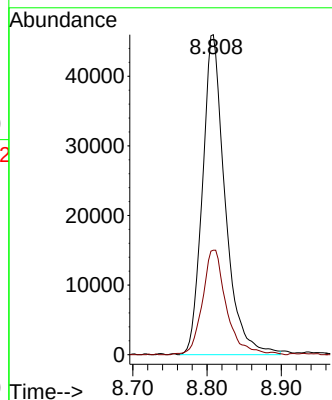
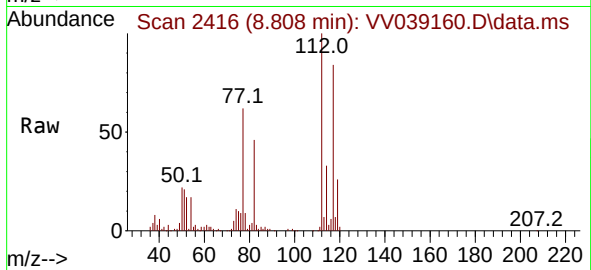




#65
Chlorobenzene
Concen: 2.706 ug/l
RT: 8.808 min Scan# 2414
Delta R.T. 0.006 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

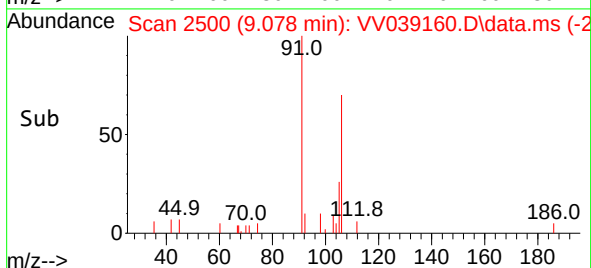
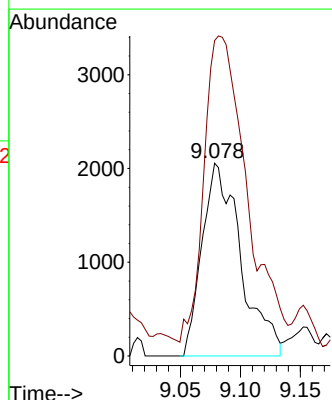
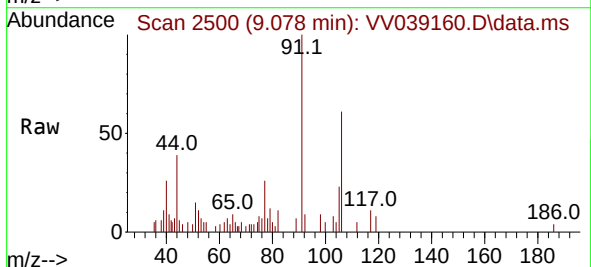
Instrument :
MSVOA_V
ClientSampleId :
DA-1

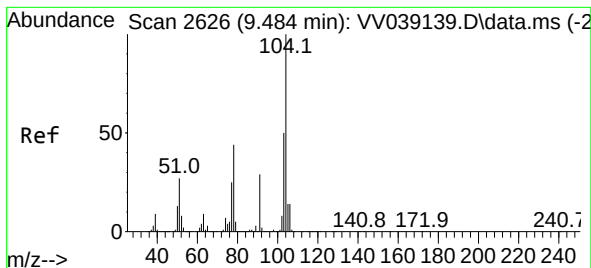
Tgt Ion:112 Resp: 97239
Ion Ratio Lower Upper
112 100
114 32.3 24.6 37.0



#68
m/p-Xylenes
Concen: 0.221 ug/l
RT: 9.078 min Scan# 2500
Delta R.T. 0.019 min
Lab File: VV039160.D
Acq: 24 Sep 2025 18:07

Tgt Ion:106 Resp: 4632
Ion Ratio Lower Upper
106 100
91 174.6 162.5 243.7





#70

Styrene

Concen: 1.563 ug/l

RT: 9.513 min Scan# 2

Delta R.T. 0.029 min

Lab File: VV039160.D

Acq: 24 Sep 2025 18:07

Instrument :

MSVOA_V

ClientSampleId :

DA-1

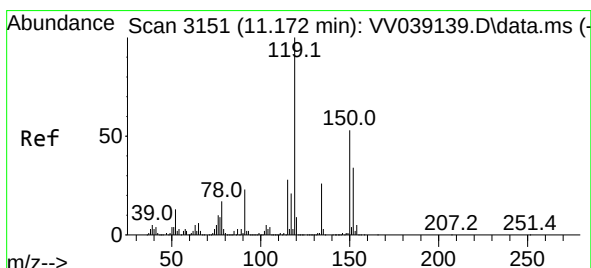
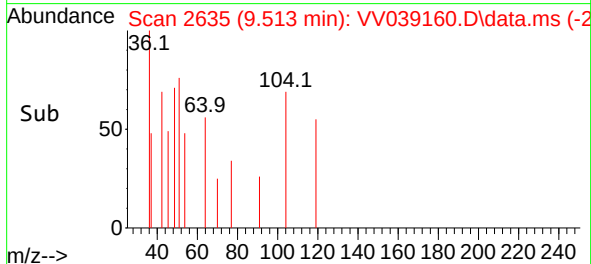
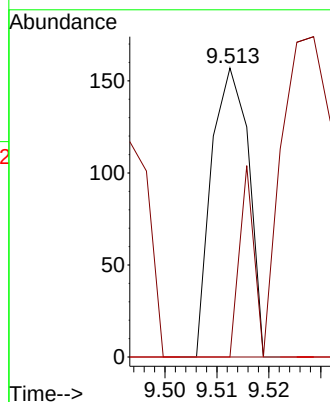
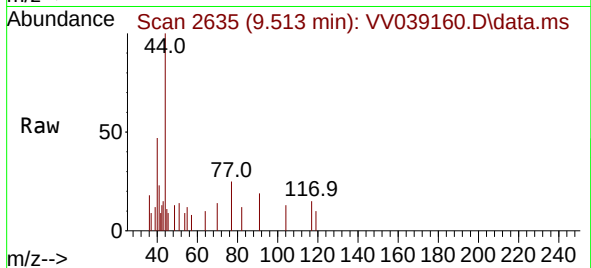
Tgt Ion:104 Resp: 78

Ion Ratio Lower Upper

104 100

78 170.5 39.8 59.6#

103 0.0 43.4 65.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039160.D

Acq: 24 Sep 2025 18:07

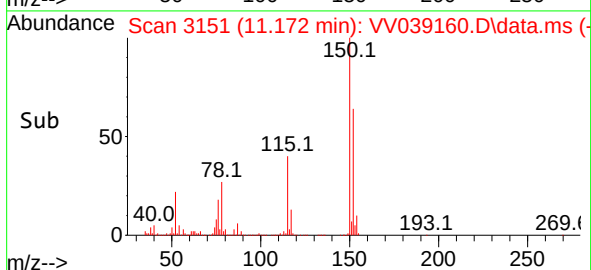
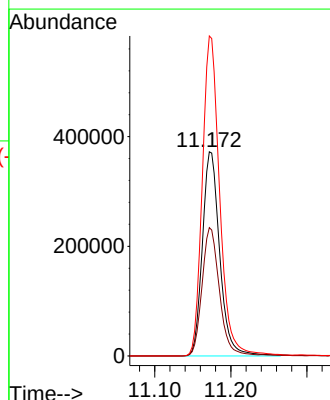
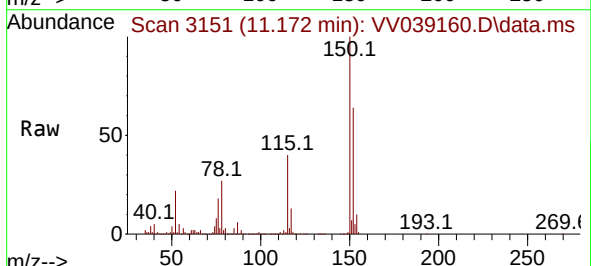
Tgt Ion:152 Resp: 589916

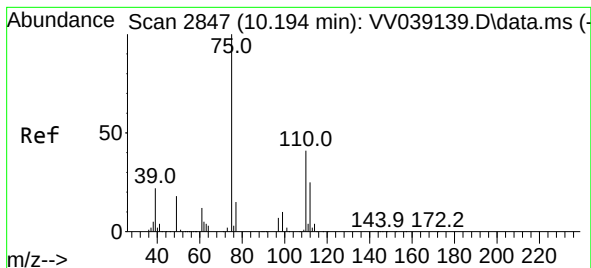
Ion Ratio Lower Upper

152 100

115 63.4 44.8 134.4

150 157.5 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 21.333 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039160.D

Acq: 24 Sep 2025 18:07

Instrument :

MSVOA_V

ClientSampleId :

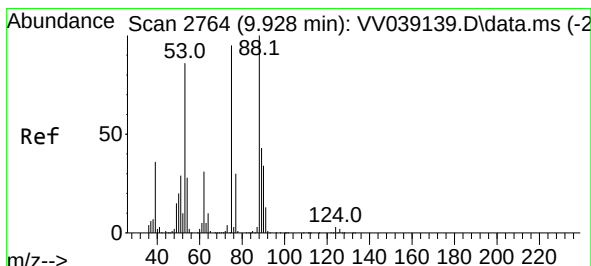
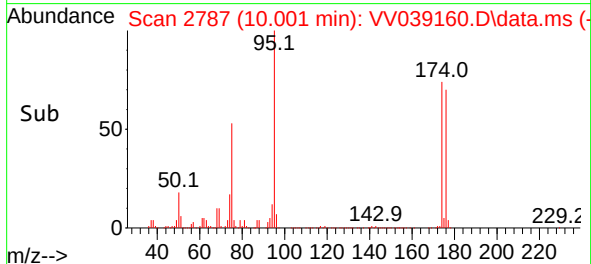
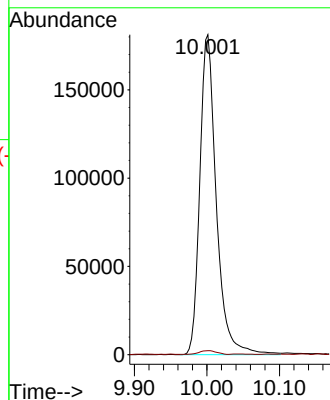
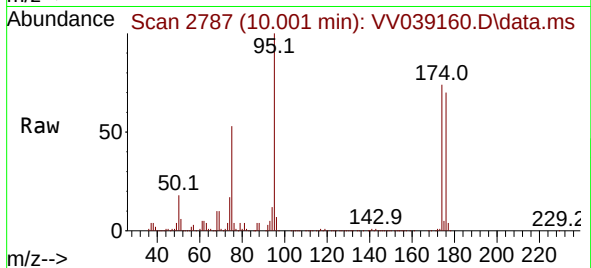
DA-1

Tgt Ion: 75 Resp: 286538

Ion Ratio Lower Upper

75 100

77 1.2 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.215 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039160.D

Acq: 24 Sep 2025 18:07

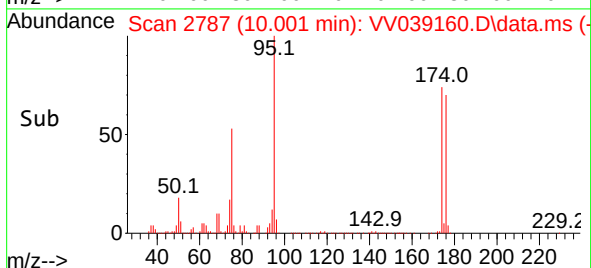
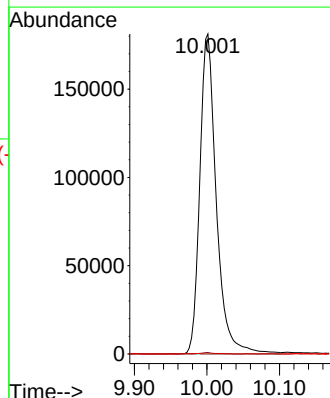
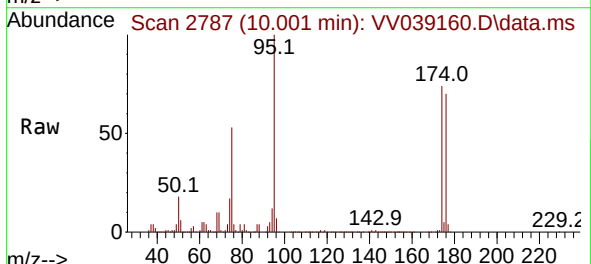
Tgt Ion: 75 Resp: 286538

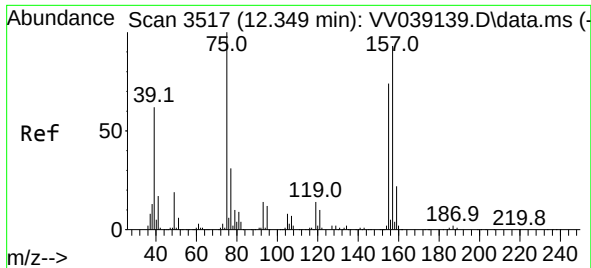
Ion Ratio Lower Upper

75 100

53 0.4 72.5 108.7#

89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.297 min Scan# 31

Delta R.T. -0.052 min

Lab File: VV039160.D

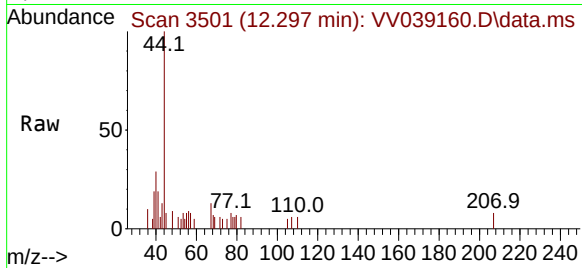
Acq: 24 Sep 2025 18:07

Instrument :

MSVOA_V

ClientSampleId :

DA-1



Tgt Ion:	75	Resp:	45
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.6	115.8#
157	0.0	49.5	148.3#

