

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
 Data File : VV039234.D
 Acq On : 29 Sep 2025 16:08
 Operator : SY/MD
 Sample : Q3231-08
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 30 01:27:59 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)

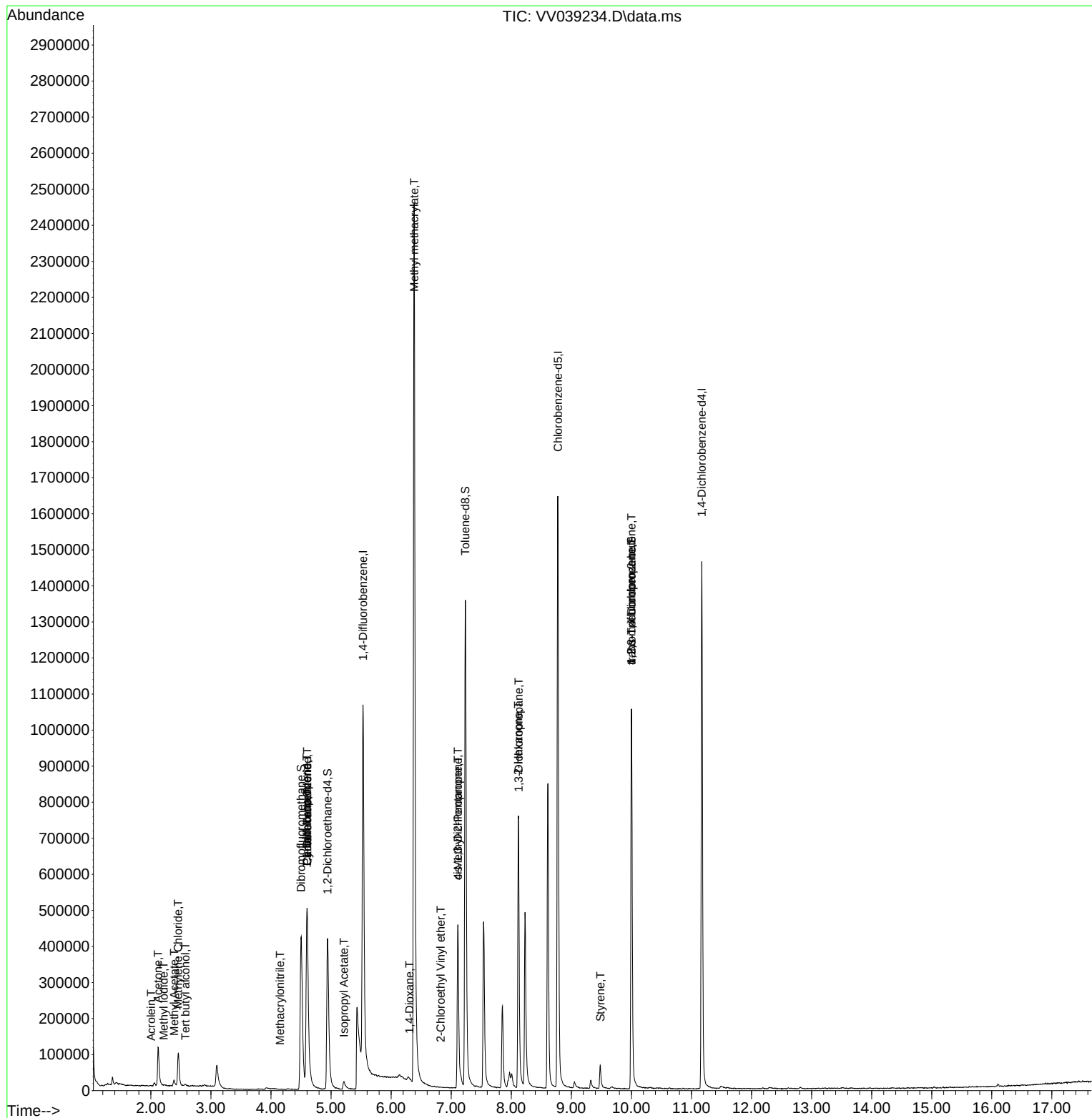
Internal Standards						
1) Pentafluorobenzene	4.603	168	432703	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	905184	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	925002	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	393713	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	376726	60.156	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	120.320%#
35) Dibromofluoromethane	4.503	113	360306	49.513	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	99.020%
50) Toluene-d8	7.236	98	981084	45.904	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	91.800%
62) 4-Bromofluorobenzene	10.001	95	358135	40.704	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	81.400%#
Target Compounds						
					Qvalue	
6) Chloroethane	1.555	64	1755	Below Cal	#	63
10) Methyl Iodide	2.214	142	1353	0.210	ug/l #	57
11) Tert butyl alcohol	2.574	59	1316	0.994	ug/l #	71
13) Acrolein	2.005	56	97	0.422	ug/l #	1
16) Acetone	2.121	43	134393	29.029	ug/l	99
18) Methyl Acetate	2.388	43	20900	2.252	ug/l	95
20) Methylene Chloride	2.455	84	45472	4.849	ug/l	89
31) Cyclohexane	4.603	56	9543	0.854	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	37522	3.410	ug/l #	49
38) Carbon Tetrachloride	4.603	117	46560	3.463	ug/l #	16
41) Methacrylonitrile	4.150	41	171	1.938	ug/l #	31
43) Isopropyl Acetate	5.214	43	29356	1.613	ug/l #	92
48) Methyl methacrylate	6.384	41	224904	27.257	ug/l #	39
49) 1,4-Dioxane	6.304	88	42	0.315	ug/l #	25
51) 4-Methyl-2-Pentanone	7.111	43	177240	14.801	ug/l #	48
54) cis-1,3-Dichloropropene	7.111	75	84878	6.261	ug/l #	66
57) 1,3-Dichloropropane	8.124	76	8091	0.550	ug/l #	43
58) 2-Chloroethyl Vinyl ether	6.825	63	79	9.635	ug/l #	47
59) 2-Hexanone	8.117	43	101689	12.748	ug/l #	56
70) Styrene	9.484	104	69	1.564	ug/l #	26
76) 1,2,3-Trichloropropane	10.001	75	174595	19.477	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	174595	46.758	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.304	75	83	Below Cal	#	5

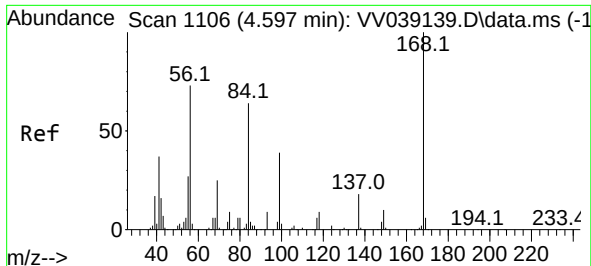
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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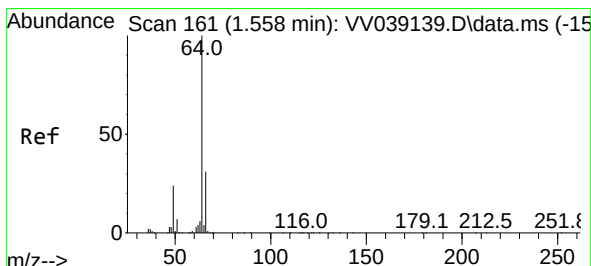
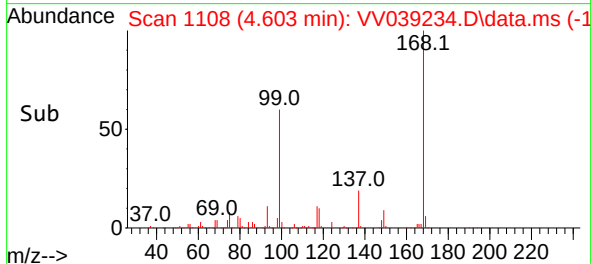
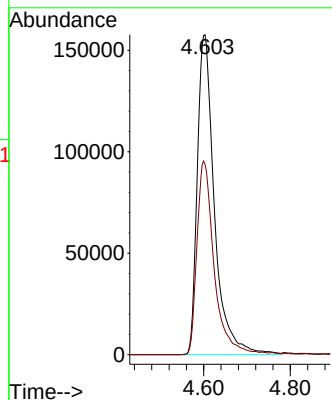
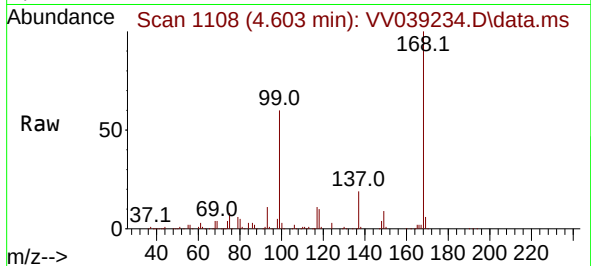




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

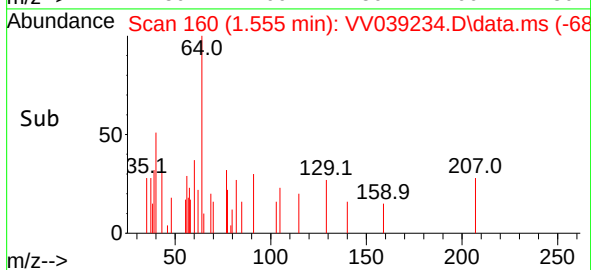
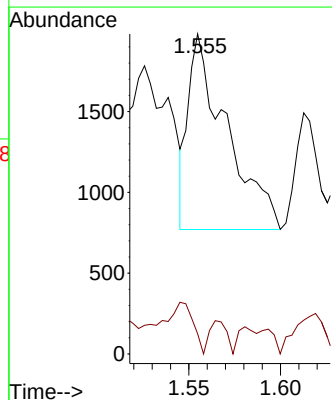
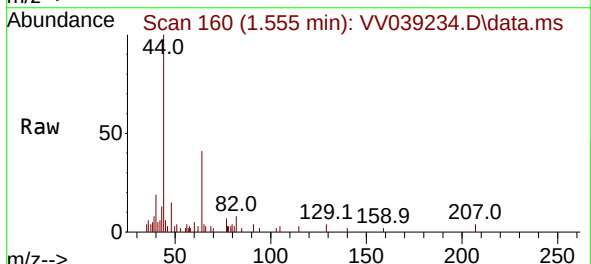
Instrument :
MSVOA_V
ClientSampleId :

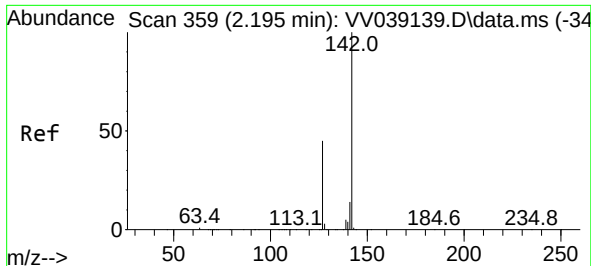
Tgt Ion:168 Resp: 432703
Ion Ratio Lower Upper
168 100
99 59.5 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.555 min Scan# 160
Delta R.T. -0.003 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

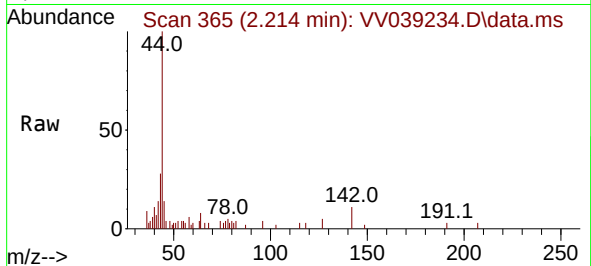
Tgt Ion: 64 Resp: 1755
Ion Ratio Lower Upper
64 100
66 10.3 24.6 36.8#



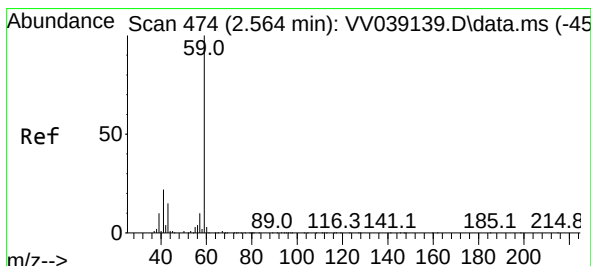
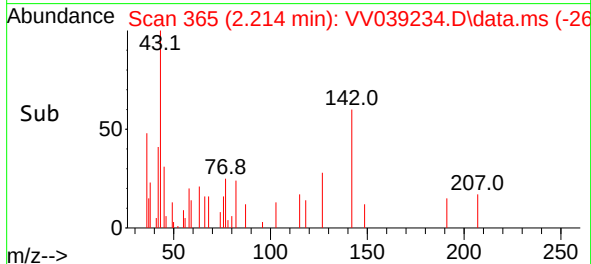
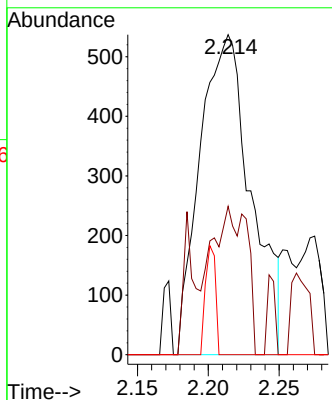


#10
Methyl Iodide
Concen: 0.210 ug/l
RT: 2.214 min Scan# 30
Delta R.T. 0.019 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Instrument :
MSVOA_V
ClientSampleId :

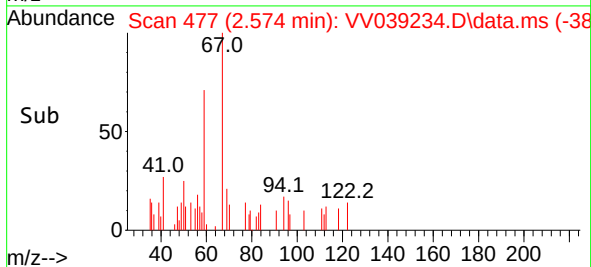
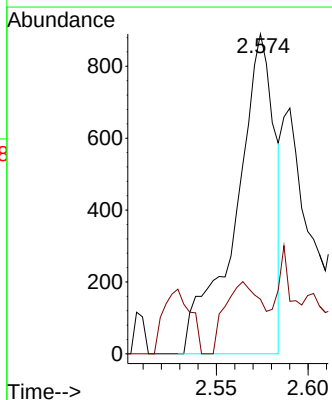
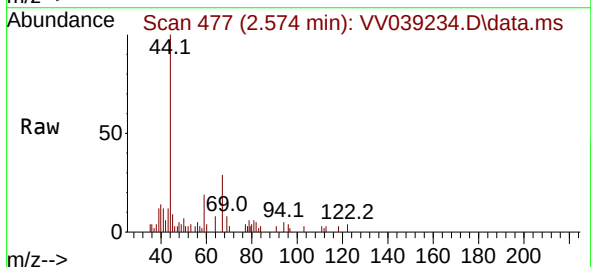


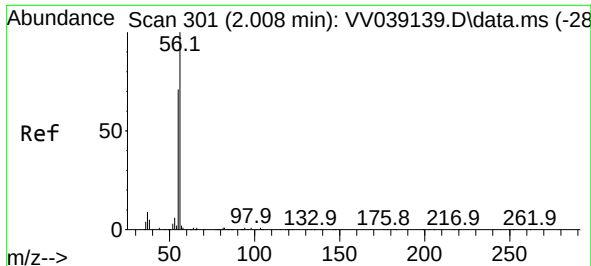
Tgt Ion:142 Resp: 1353
Ion Ratio Lower Upper
142 100
127 11.8 36.3 54.5#
141 6.7 11.2 16.8#



#11
Tert butyl alcohol
Concen: 0.994 ug/l
RT: 2.574 min Scan# 477
Delta R.T. 0.010 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Tgt Ion: 59 Resp: 1316
Ion Ratio Lower Upper
59 100
57 20.6 7.8 11.8#

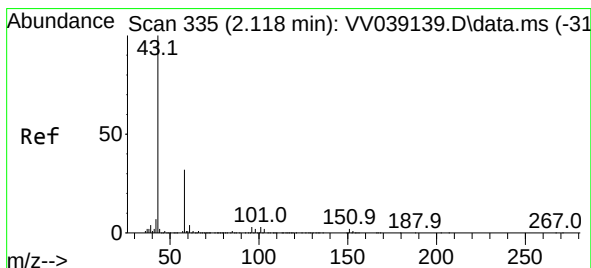
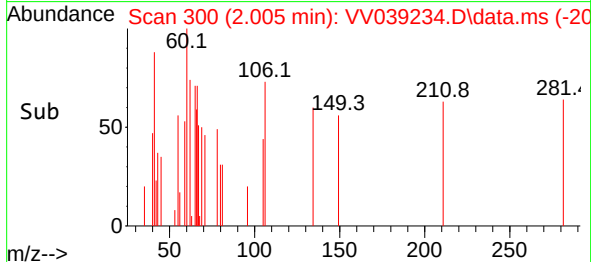
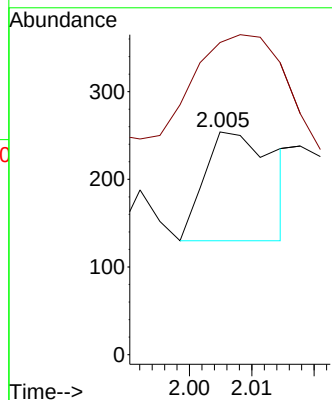
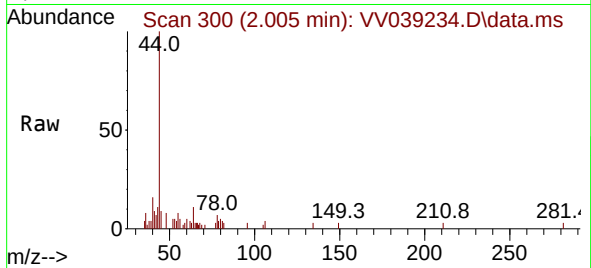




#13
Acrolein
Concen: 0.422 ug/l
RT: 2.005 min Scan# 301
Delta R.T. -0.003 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

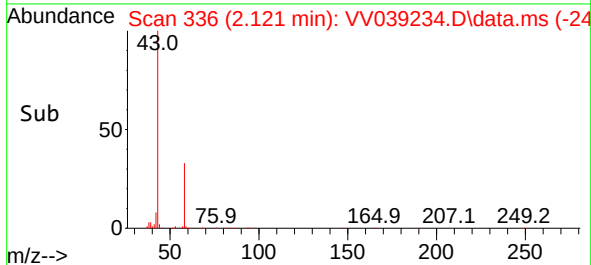
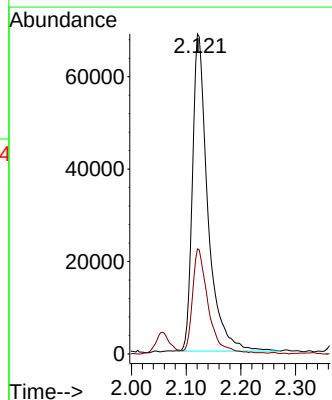
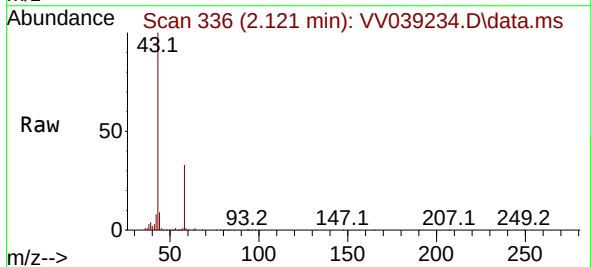
Instrument :
MSVOA_V
ClientSampleId :

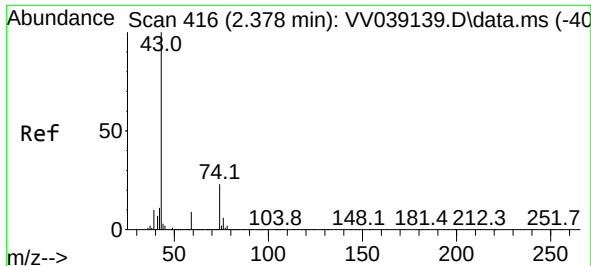
Tgt Ion: 56 Resp: 97
Ion Ratio Lower Upper
56 100
55 768.0 56.2 84.4#



#16
Acetone
Concen: 29.029 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Tgt Ion: 43 Resp: 134393
Ion Ratio Lower Upper
43 100
58 33.0 25.8 38.6

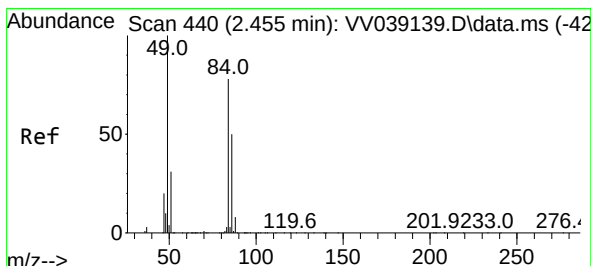
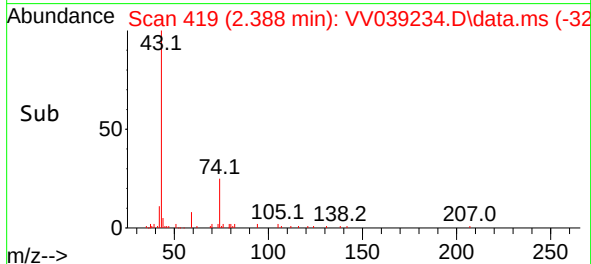
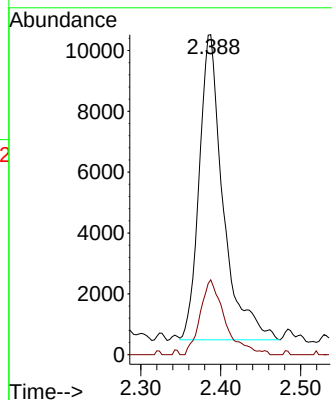
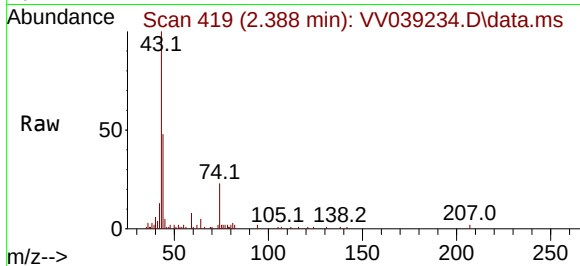




#18
Methyl Acetate
Concen: 2.252 ug/l
RT: 2.388 min Scan# 416
Delta R.T. 0.010 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

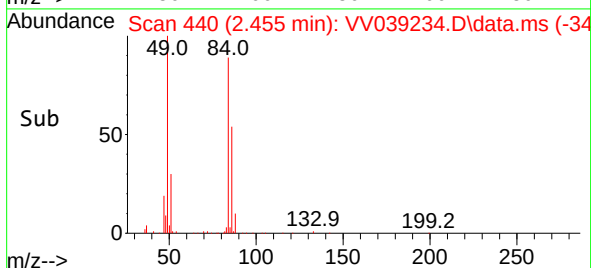
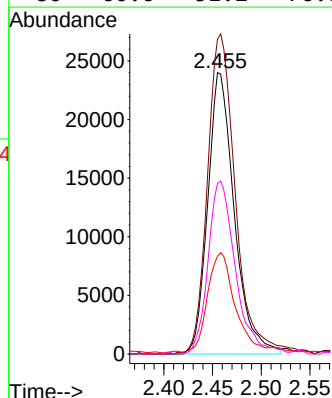
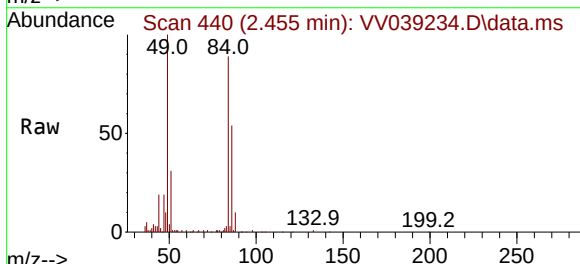
Instrument :
MSVOA_V
ClientSampleId :

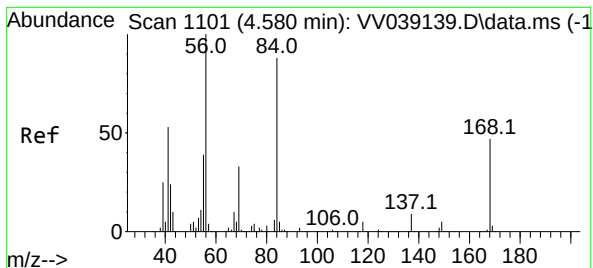
Tgt Ion: 43 Resp: 20900
Ion Ratio Lower Upper
43 100
74 25.4 18.6 27.8



#20
Methylene Chloride
Concen: 4.849 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Tgt Ion: 84 Resp: 45472
Ion Ratio Lower Upper
84 100
49 111.3 102.8 154.2
51 34.0 31.9 47.9
86 60.6 51.2 76.8





#31

Cyclohexane

Concen: 0.854 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. 0.022 min

Lab File: VV039234.D

Acq: 29 Sep 2025 16:08

Instrument :

MSVOA_V

ClientSampleId :

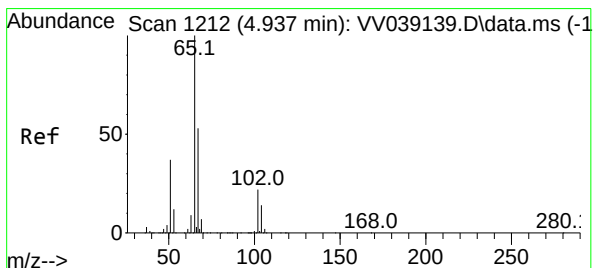
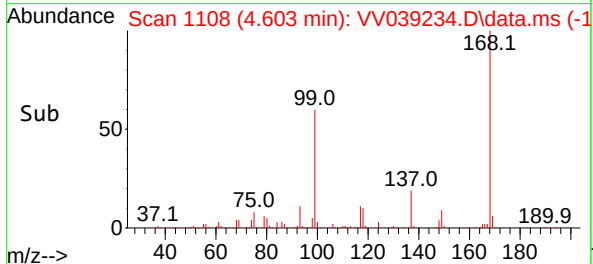
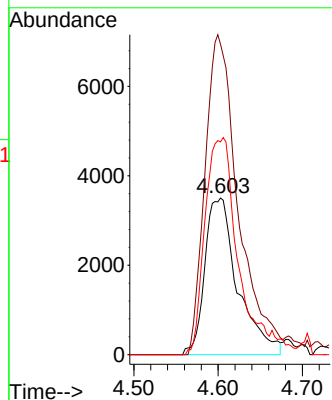
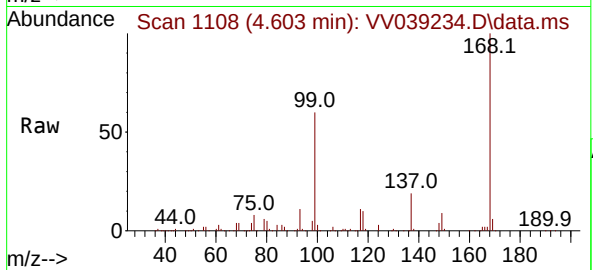
Tgt Ion: 56 Resp: 9543

Ion Ratio Lower Upper

56 100

69 198.1 26.2 39.2#

84 135.8 70.3 105.5#



#33

1,2-Dichloroethane-d4

Concen: 60.156 ug/l

RT: 4.940 min Scan# 1213

Delta R.T. 0.003 min

Lab File: VV039234.D

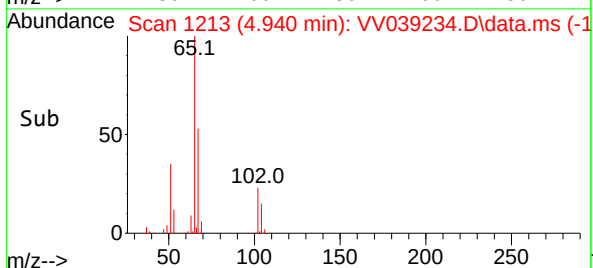
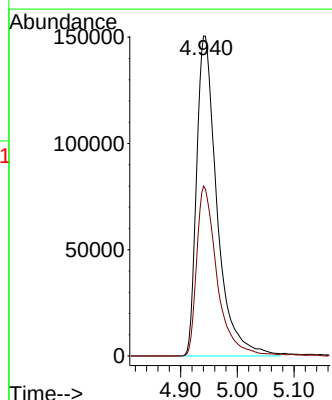
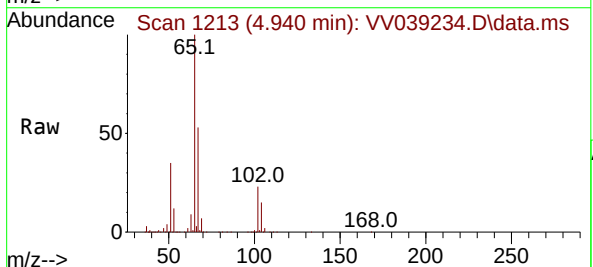
Acq: 29 Sep 2025 16:08

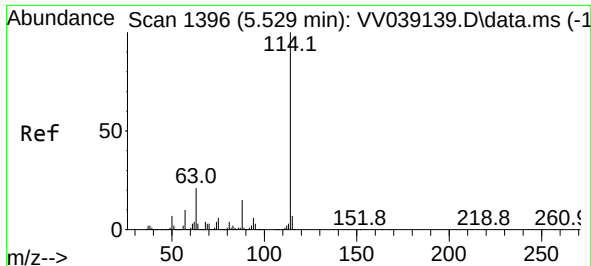
Tgt Ion: 65 Resp: 376726

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 114

Delta R.T. 0.003 min

Lab File: VV039234.D

Acq: 29 Sep 2025 16:08

Instrument :

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ClientSampleId :

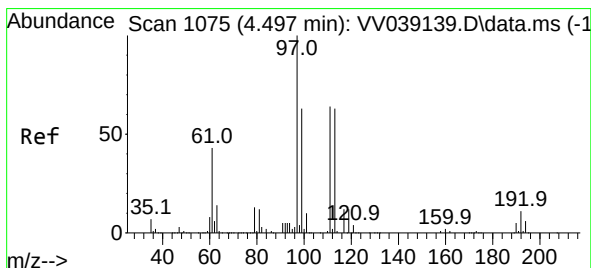
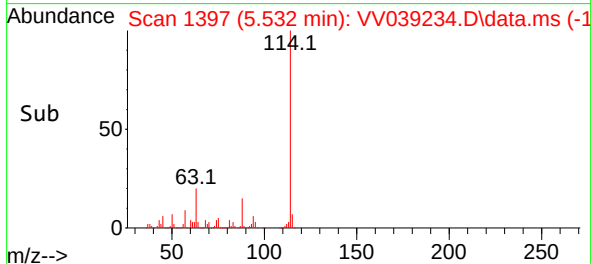
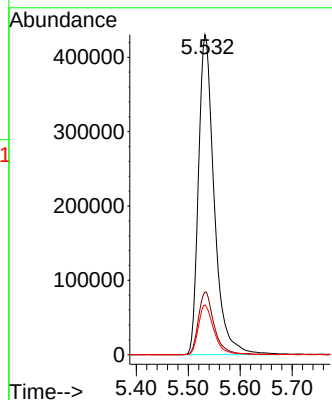
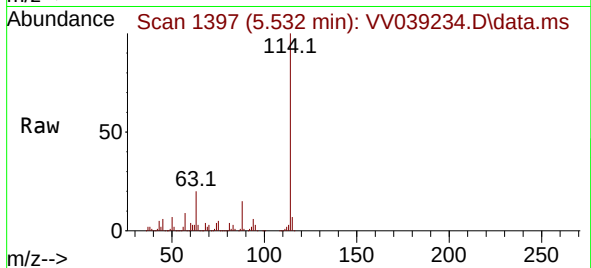
Tgt Ion:114 Resp: 905184

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

88 15.5 0.0 30.8



#35

Dibromofluoromethane

Concen: 49.513 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039234.D

Acq: 29 Sep 2025 16:08

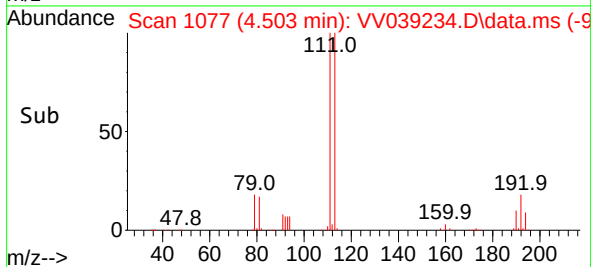
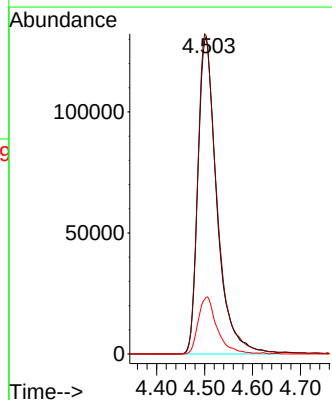
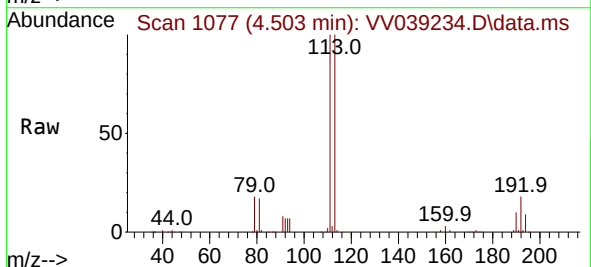
Tgt Ion:113 Resp: 360306

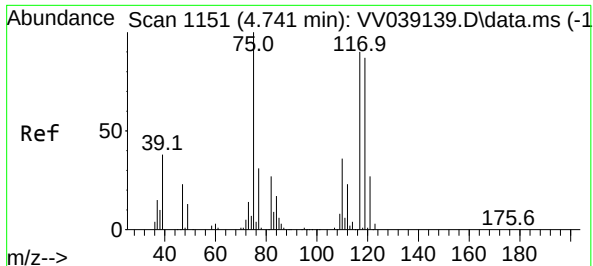
Ion Ratio Lower Upper

113 100

111 101.5 82.4 123.6

192 17.8 13.8 20.8

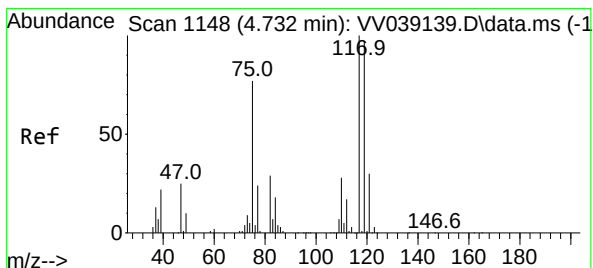
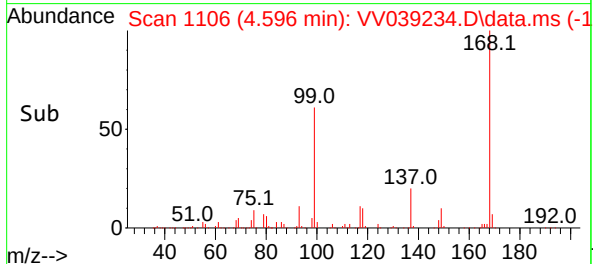
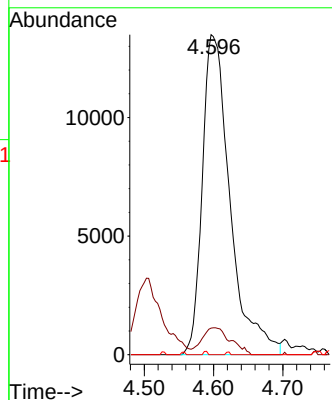
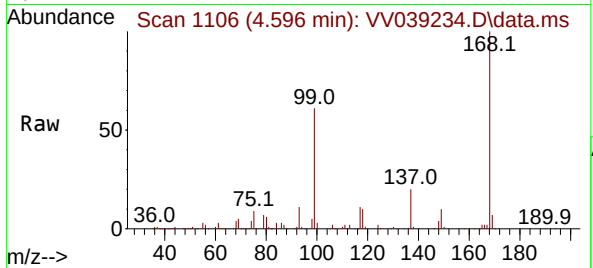




#36
 1,1-Dichloropropene
 Concen: 3.410 ug/l
 RT: 4.596 min Scan# 1106
 Delta R.T. -0.145 min
 Lab File: VV039234.D
 Acq: 29 Sep 2025 16:08

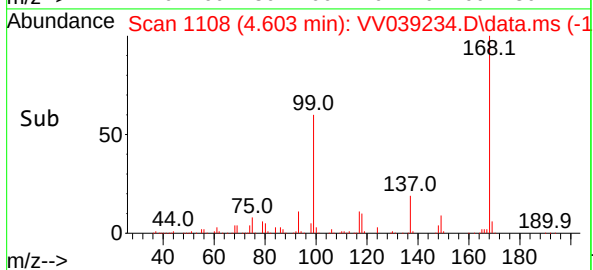
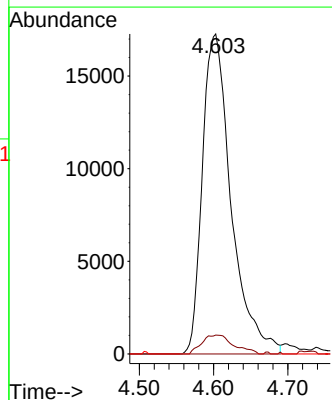
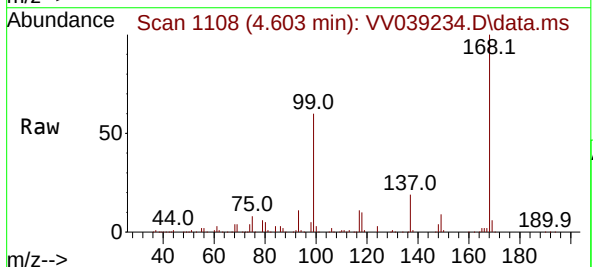
Instrument :
 MSVOA_V
 ClientSampleId :

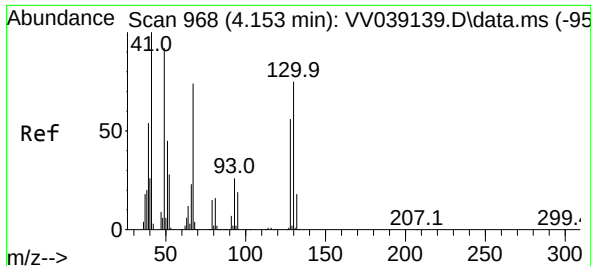
Tgt Ion: 75 Resp: 37522
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.1 54.1#
 77 0.1 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 3.463 ug/l
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.129 min
 Lab File: VV039234.D
 Acq: 29 Sep 2025 16:08

Tgt Ion: 117 Resp: 46560
 Ion Ratio Lower Upper
 117 100
 119 5.9 77.2 115.8#
 121 0.0 24.2 36.2#

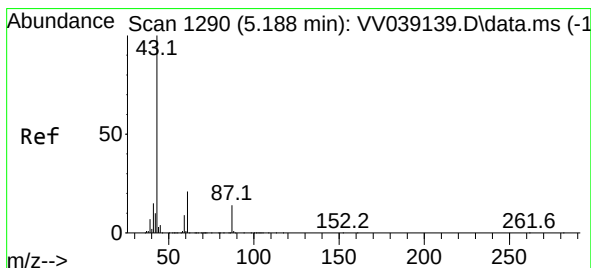
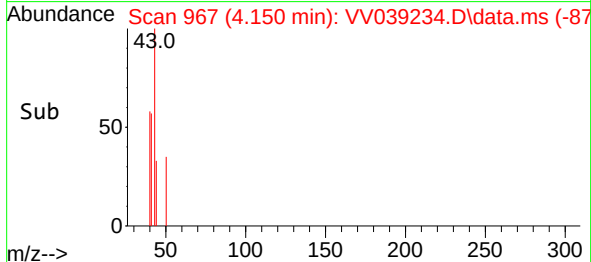
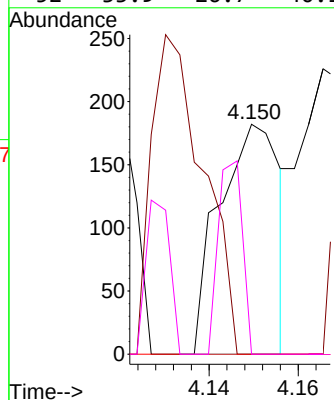
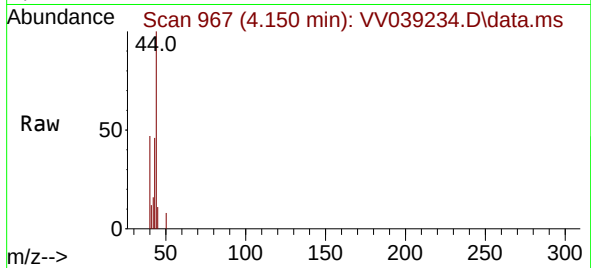




#41
Methacrylonitrile
Concen: 1.938 ug/l
RT: 4.150 min Scan# 90
Delta R.T. -0.003 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

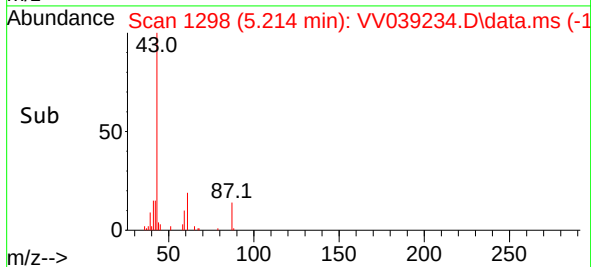
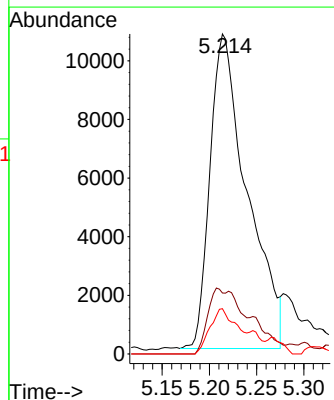
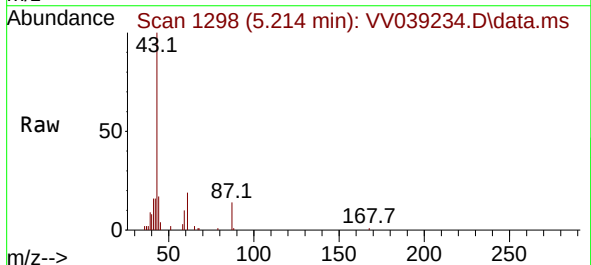
Instrument :
MSVOA_V
ClientSampleId :

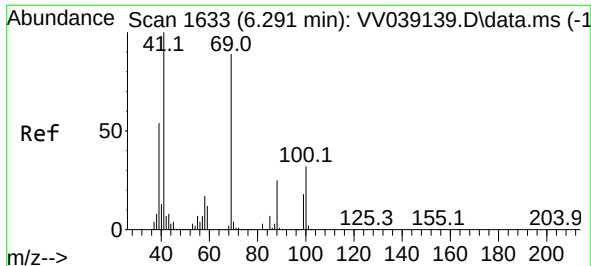
Tgt Ion: 41 Resp: 171
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 0.0 67.9 101.9#
52 33.9 26.7 40.1



#43
Isopropyl Acetate
Concen: 1.613 ug/l
RT: 5.214 min Scan# 1298
Delta R.T. 0.026 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

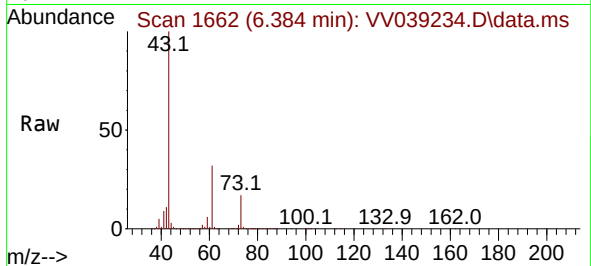
Tgt Ion: 43 Resp: 29356
Ion Ratio Lower Upper
43 100
61 23.8 15.9 23.9
87 10.4 11.0 16.6#



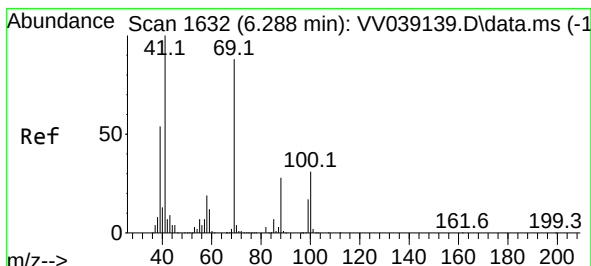
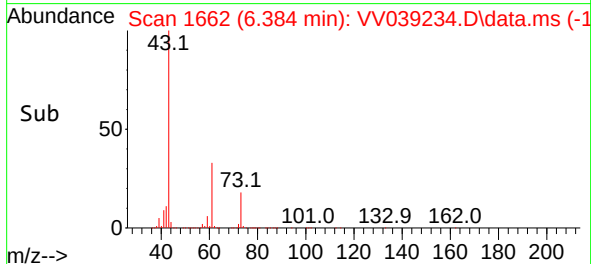
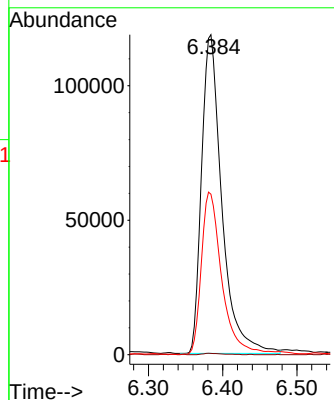


#48
Methyl methacrylate
Concen: 27.257 ug/l
RT: 6.384 min Scan# 1662
Delta R.T. 0.093 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Instrument :
MSVOA_V
ClientSampleId :

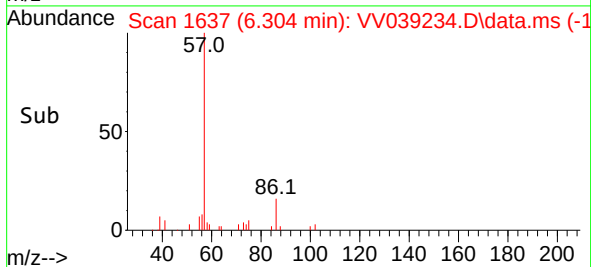
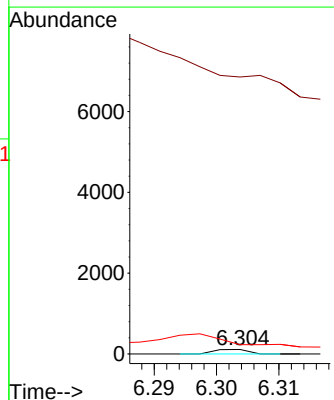
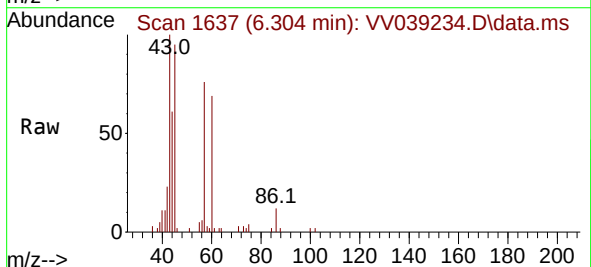


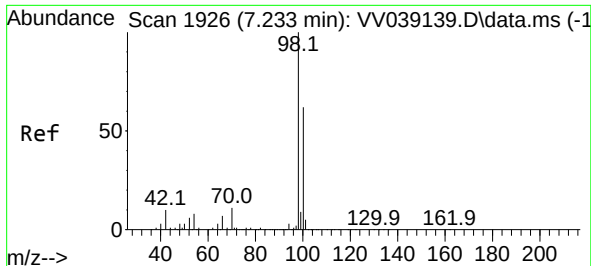
Tgt Ion: 41 Resp: 224904
Ion Ratio Lower Upper
41 100
69 0.4 72.4 108.6#
39 51.3 42.5 63.7



#49
1,4-Dioxane
Concen: 0.315 ug/l
RT: 6.304 min Scan# 1637
Delta R.T. 0.016 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 0.0 25.1 37.7#
58 0.0 53.6 80.4#

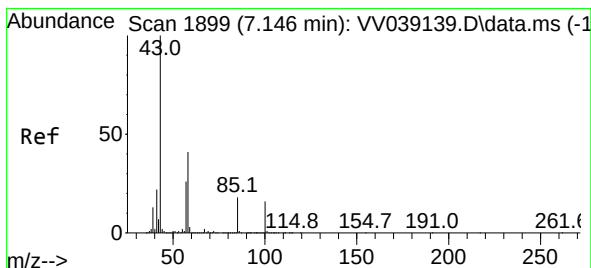
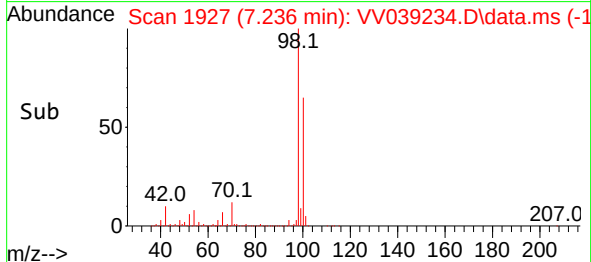
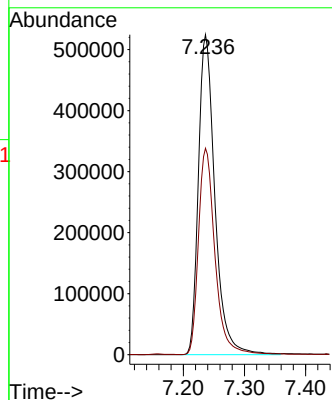
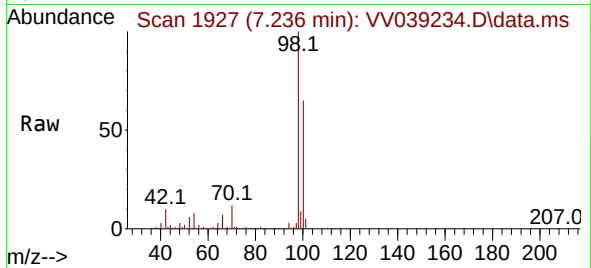




#50
Toluene-d8
Concen: 45.904 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

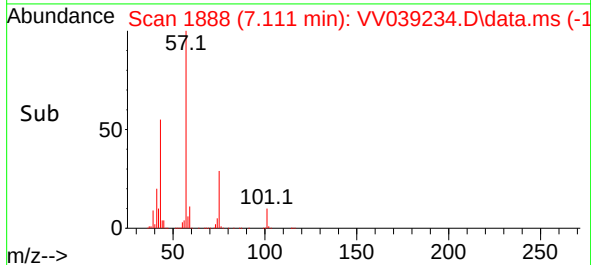
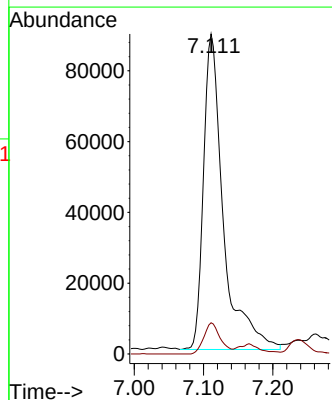
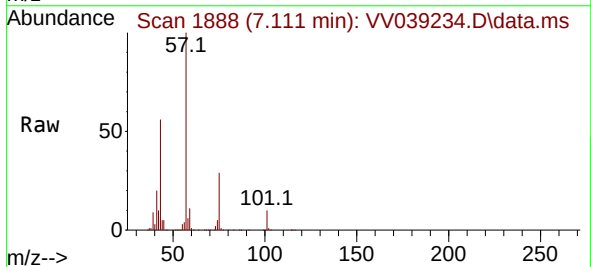
Instrument :
MSVOA_V
ClientSampleId :

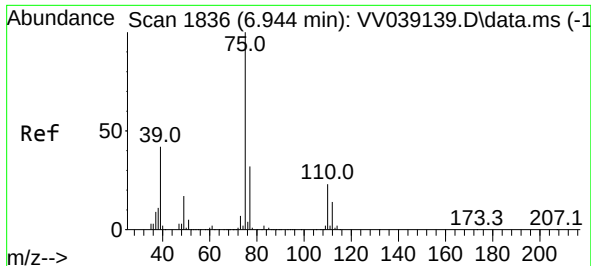
Tgt Ion: 98 Resp: 981084
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 14.801 ug/l
RT: 7.111 min Scan# 1888
Delta R.T. -0.035 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Tgt Ion: 43 Resp: 177240
Ion Ratio Lower Upper
43 100
58 8.3 32.3 48.5#

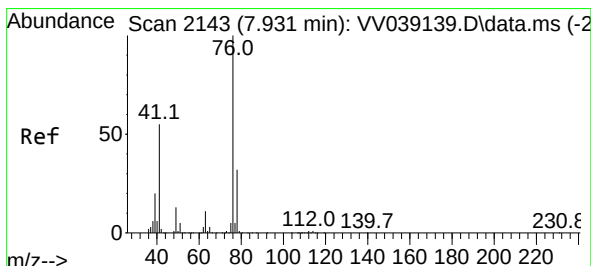
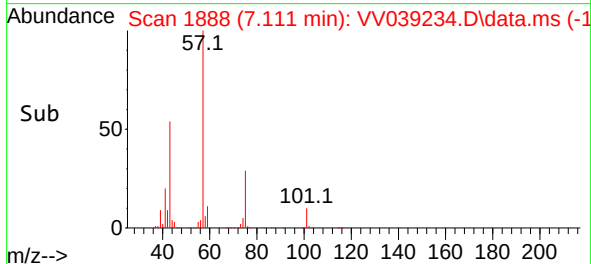
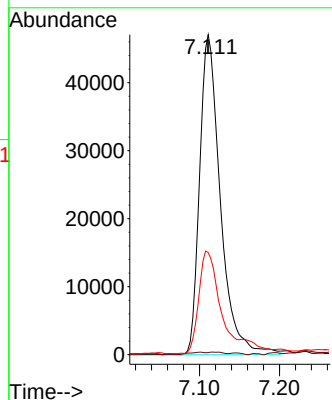
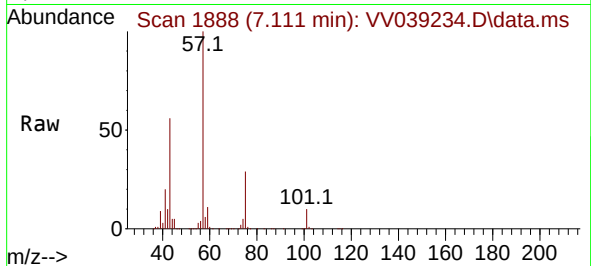




#54
 cis-1,3-Dichloropropene
 Concen: 6.261 ug/l
 RT: 7.111 min Scan# 11
 Delta R.T. 0.167 min
 Lab File: VV039234.D
 Acq: 29 Sep 2025 16:08

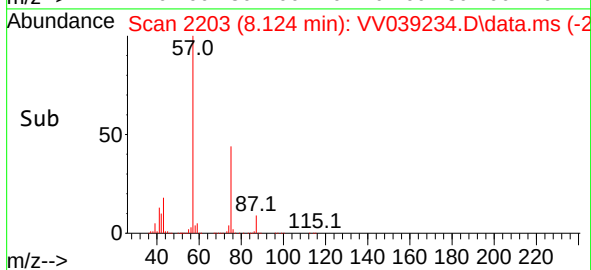
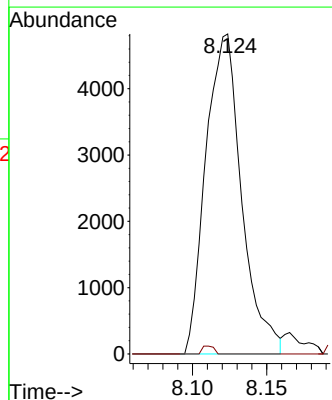
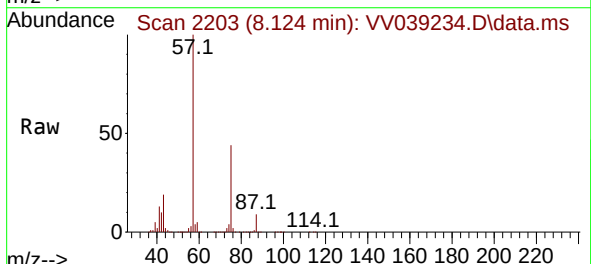
Instrument :
 MSVOA_V
 ClientSampleId :

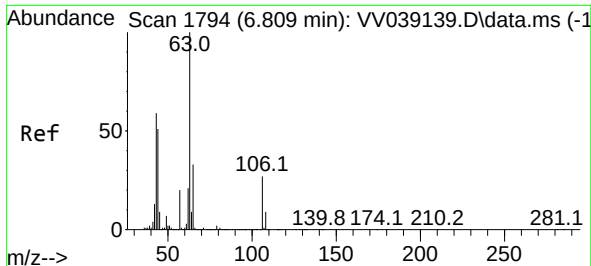
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.7	25.5	38.3#
39	31.5	33.8	50.6#



#57
 1,3-Dichloropropane
 Concen: 0.550 ug/l
 RT: 8.124 min Scan# 2203
 Delta R.T. 0.193 min
 Lab File: VV039234.D
 Acq: 29 Sep 2025 16:08

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.8	26.1	39.1#

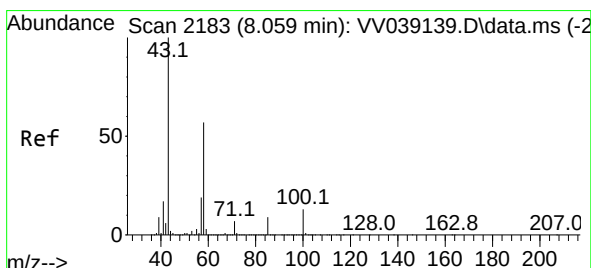
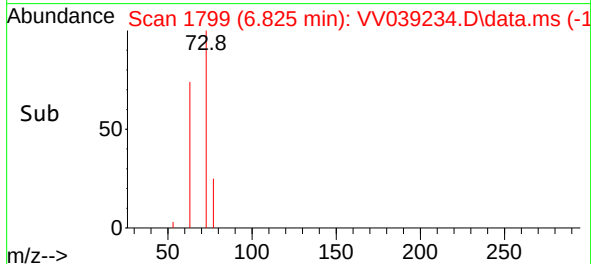
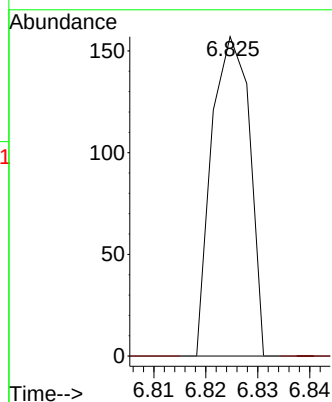
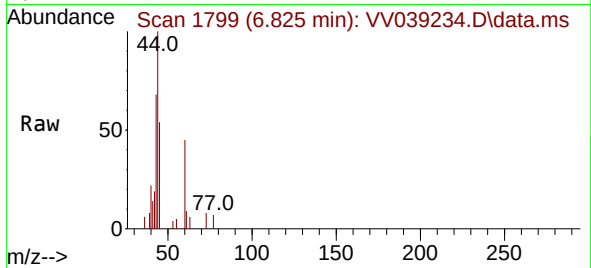




#58
2-Chloroethyl Vinyl ether
Concen: 9.635 ug/l
RT: 6.825 min Scan# 11
Delta R.T. 0.016 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

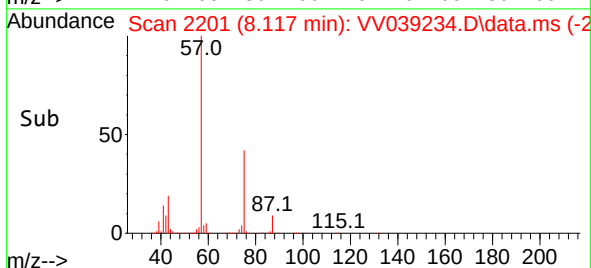
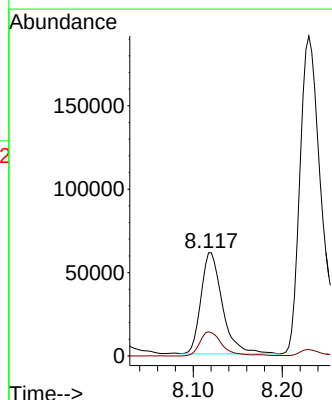
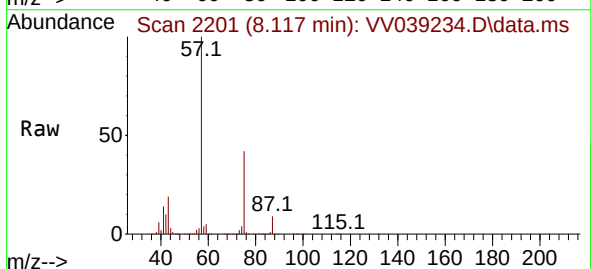
Instrument :
MSVOA_V
ClientSampleId :

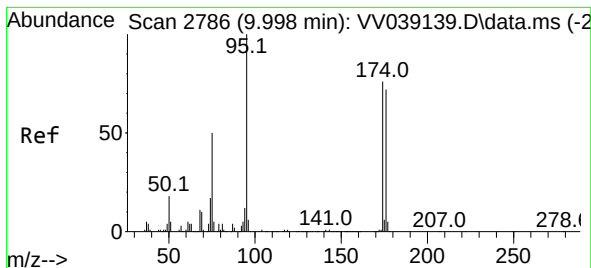
Tgt Ion: 63 Resp: 79
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 12.748 ug/l
RT: 8.117 min Scan# 2201
Delta R.T. 0.058 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Tgt Ion: 43 Resp: 101689
Ion Ratio Lower Upper
43 100
58 24.5 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: 40.704 ug/l

RT: 10.001 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039234.D

Acq: 29 Sep 2025 16:08

Instrument :

MSVOA_V

ClientSampleId :

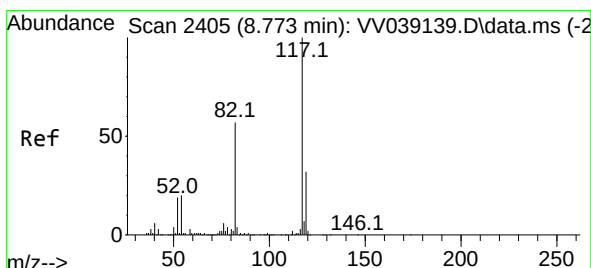
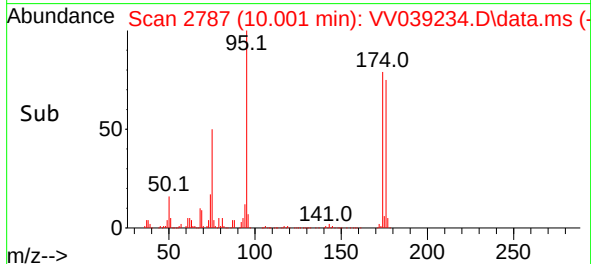
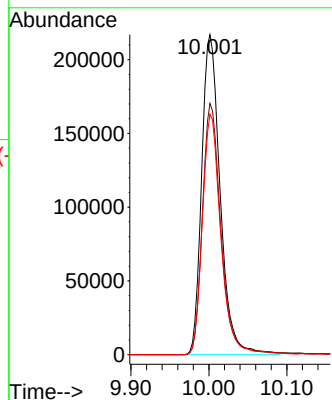
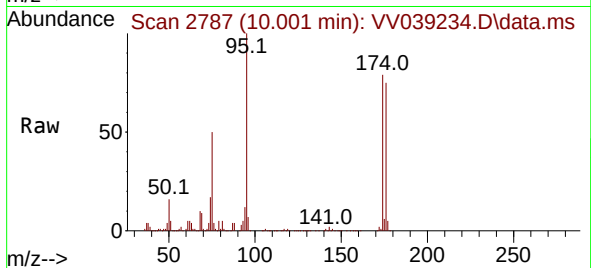
Tgt Ion: 95 Resp: 358135

Ion Ratio Lower Upper

95 100

174 78.3 0.0 150.4

176 75.2 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: VV039234.D

Acq: 29 Sep 2025 16:08

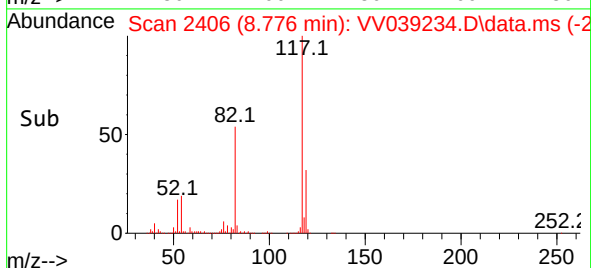
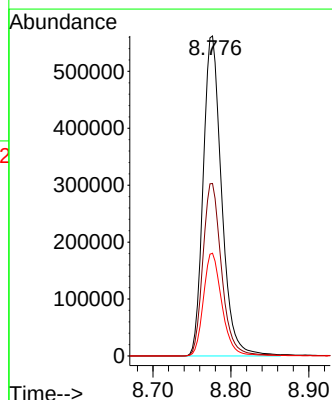
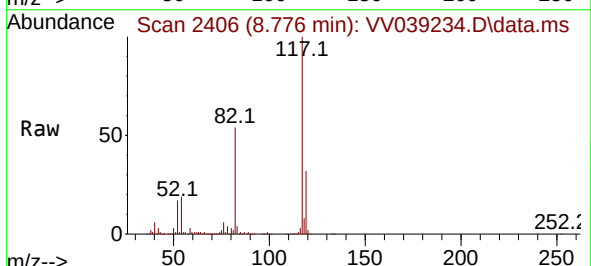
Tgt Ion: 117 Resp: 925002

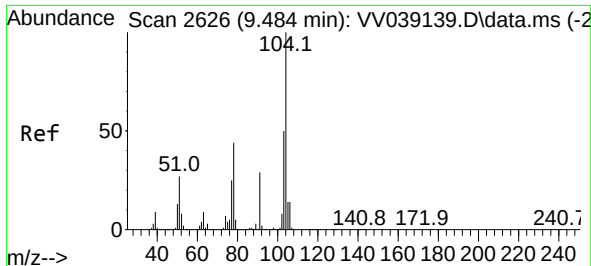
Ion Ratio Lower Upper

117 100

82 53.9 45.4 68.2

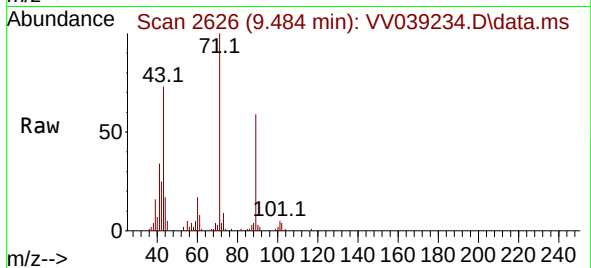
119 32.1 25.6 38.4



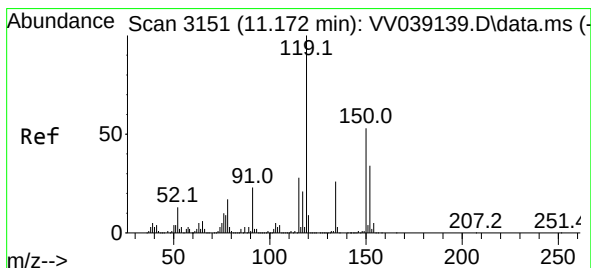
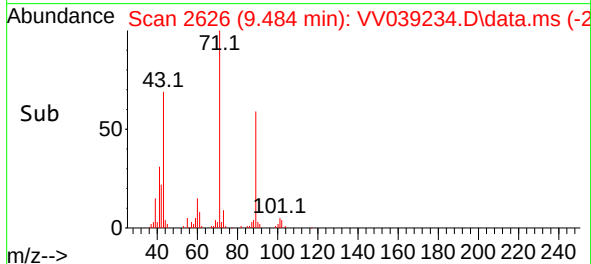
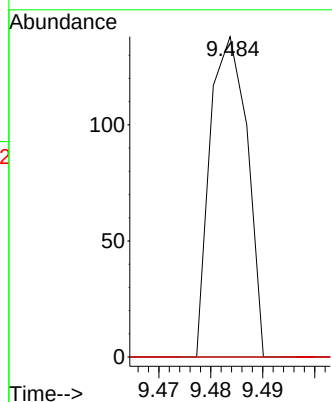


#70
Styrene
Concen: 1.564 ug/l
RT: 9.484 min Scan# 20
Delta R.T. -0.000 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Instrument :
MSVOA_V
ClientSampleId :

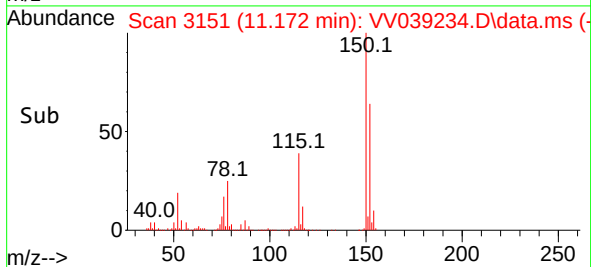
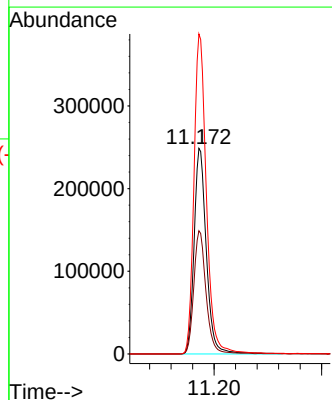
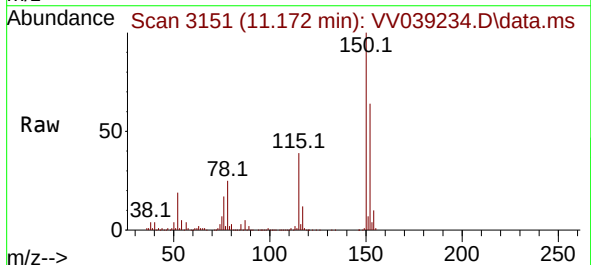


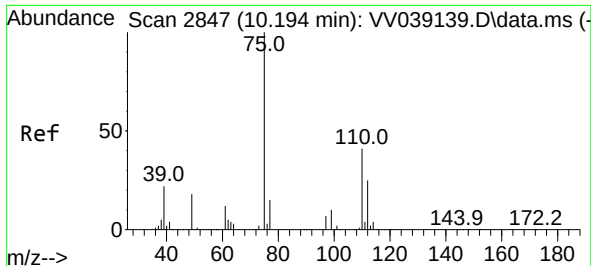
Tgt Ion:104 Resp: 69
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

Tgt Ion:152 Resp: 393713
Ion Ratio Lower Upper
152 100
115 59.6 44.8 134.4
150 157.4 0.0 353.8

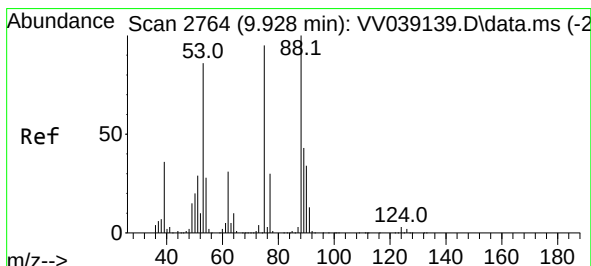
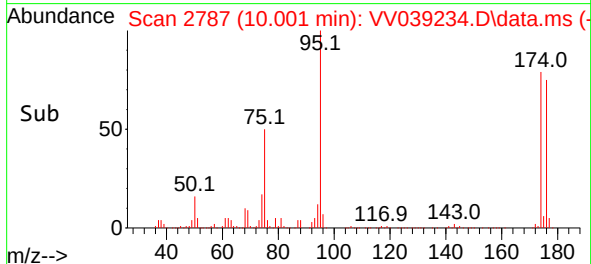
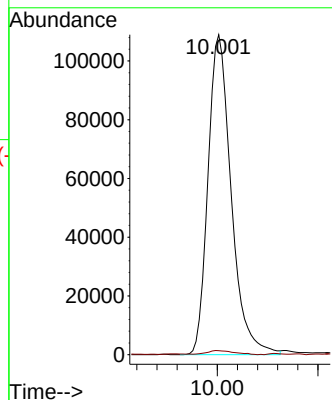
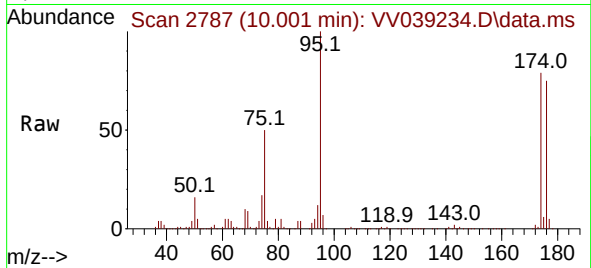




#76
1,2,3-Trichloropropane
Concen: 19.477 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.193 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

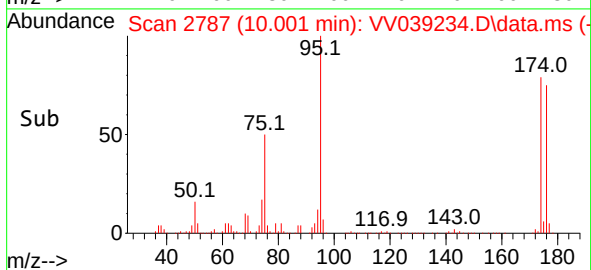
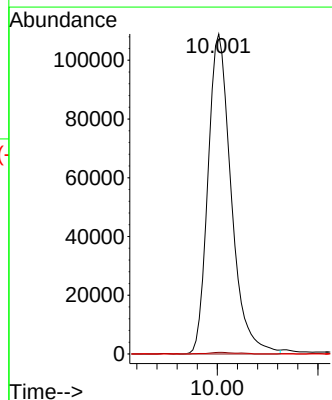
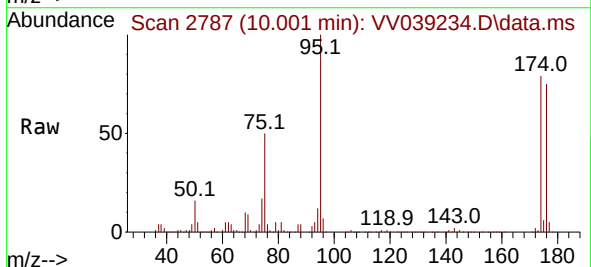
Instrument :
MSVOA_V
ClientSampleId :

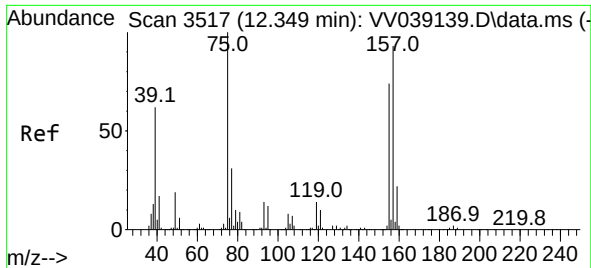
Tgt Ion: 75 Resp: 174595
Ion Ratio Lower Upper
75 100
77 1.5 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.758 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039234.D
Acq: 29 Sep 2025 16:08

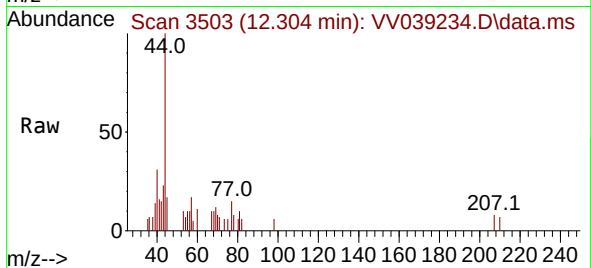
Tgt Ion: 75 Resp: 174595
Ion Ratio Lower Upper
75 100
53 0.5 72.5 108.7#
89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.304 min Scan# 31
 Delta R.T. -0.045 min
 Lab File: VV039234.D
 Acq: 29 Sep 2025 16:08

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 75 Resp: 83
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

