

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV102125\
 Data File : VV039301.D
 Acq On : 21 Oct 2025 13:37
 Operator : SY/MD
 Sample : Q3390-05DL 500X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 4175DL

Quant Time: Oct 24 04:48:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:01:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

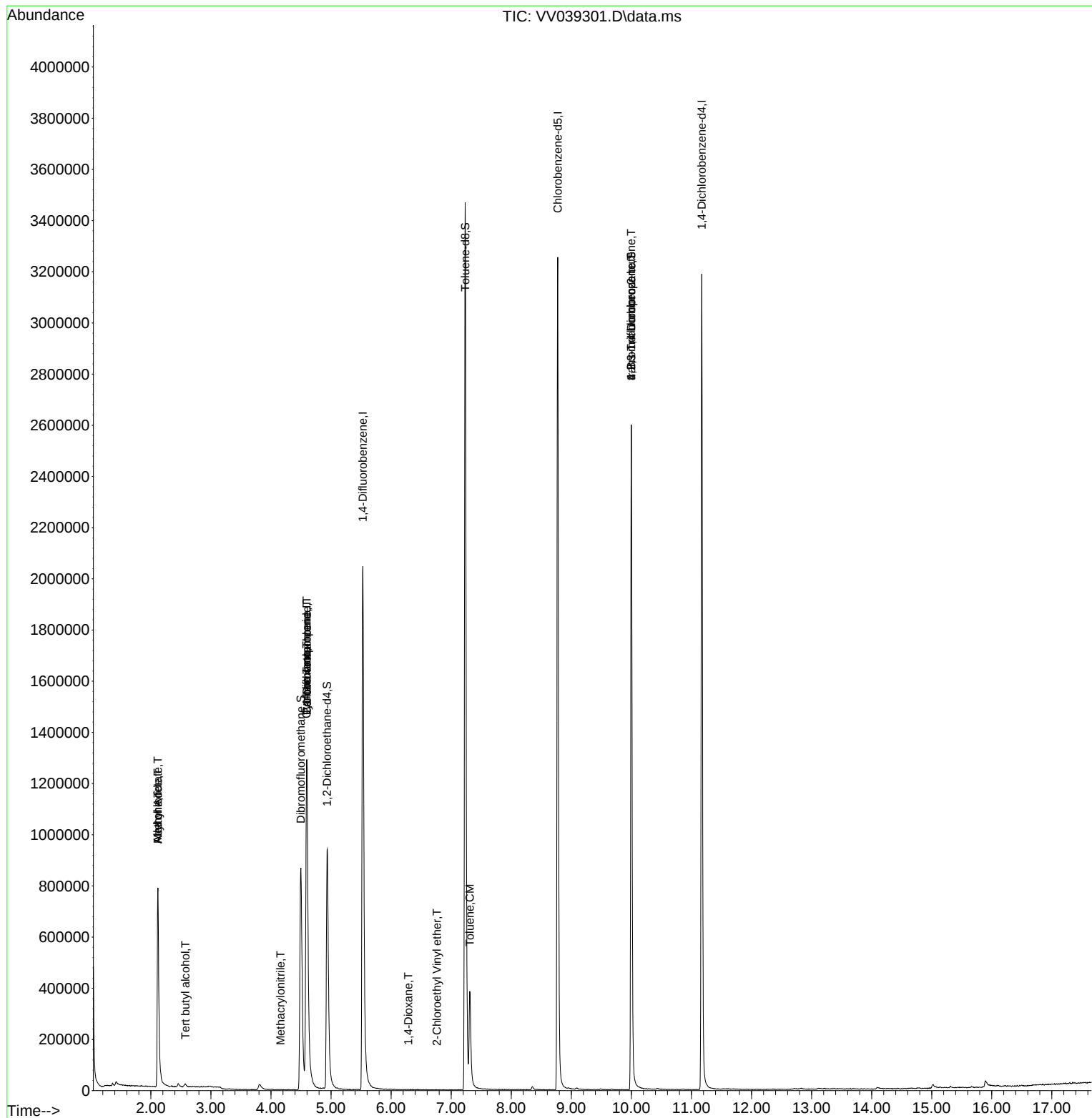
Internal Standards						
1) Pentafluorobenzene	4.597	168	1143315	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	2018397	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1830240	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	843731	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.934	65	832383	51.237	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 102.480%			
35) Dibromofluoromethane	4.497	113	728500	45.807	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 91.620%			
50) Toluene-d8	7.233	98	2460080	45.470	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.940%			
62) 4-Bromofluorobenzene	9.998	95	884666	45.913	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 91.820%			
Target Compounds						
					Qvalue	
6) Chloroethane	1.555	64	592	Below Cal	#	72
11) Tert butyl alcohol	2.574	59	3507	1.114	ug/l #	77
13) Acrolein	2.024	56	838	Below Cal	#	49
14) Allyl chloride	2.118	41	20867	0.854	ug/l #	1
16) Acetone	2.118	43	948622	120.323	ug/l	100
18) Methyl Acetate	2.118	43	945736	44.925	ug/l #	51
20) Methylene Chloride	2.458	84	6179	Below Cal		92
31) Cyclohexane	4.593	56	21812	1.019	ug/l #	1
36) 1,1-Dichloropropene	4.597	75	87911	4.401	ug/l #	48
38) Carbon Tetrachloride	4.597	117	119773	4.922	ug/l #	16
41) Methacrylonitrile	4.159	41	45	1.696	ug/l #	17
49) 1,4-Dioxane	6.285	88	53	0.225	ug/l #	1
52) Toluene	7.310	92	189238	4.890	ug/l	99
58) 2-Chloroethyl Vinyl ether	6.760	63	79	8.474	ug/l #	45
76) 1,2,3-Trichloropropane	9.998	75	432653	25.692	ug/l #	53
81) trans-1,4-Dichloro-2-b...	9.998	75	432653	64.885	ug/l #	14

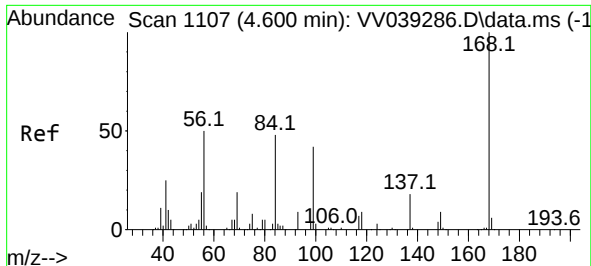
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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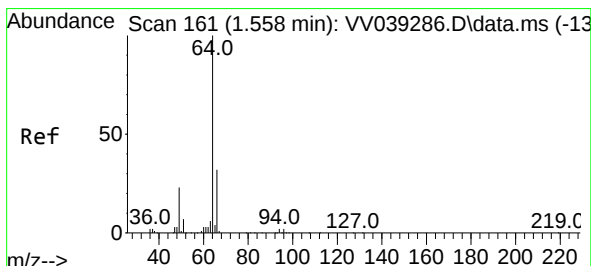
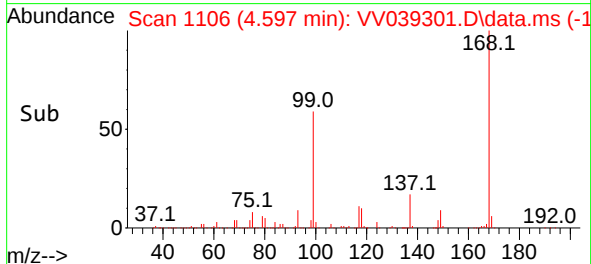
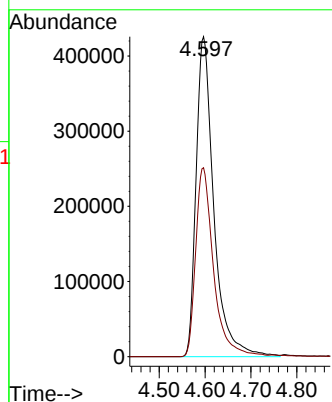
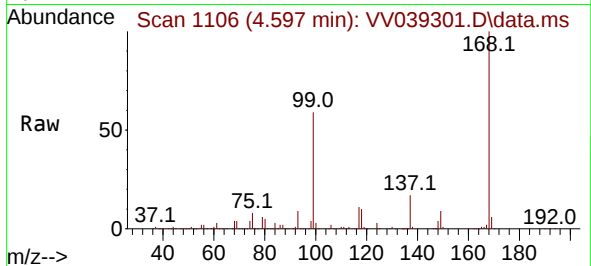




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

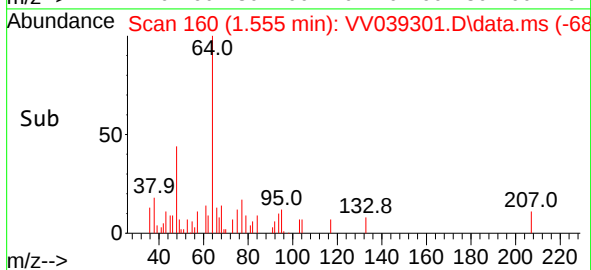
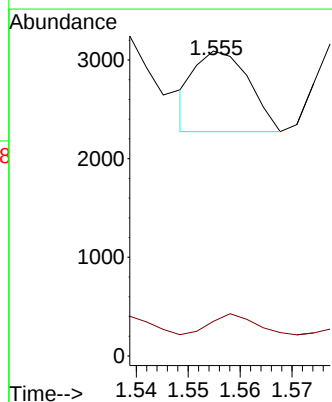
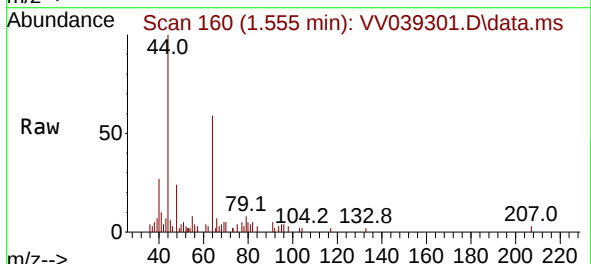
Instrument :
MSVOA_V
ClientSampleId :
4175DL

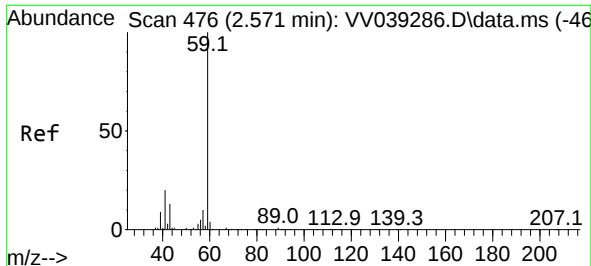
Tgt Ion:168 Resp: 1143315
Ion Ratio Lower Upper
168 100
99 59.0 46.6 70.0



#6
Chloroethane
Concen: Below Cal
RT: 1.555 min Scan# 160
Delta R.T. -0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion: 64 Resp: 592
Ion Ratio Lower Upper
64 100
66 16.5 25.7 38.5#

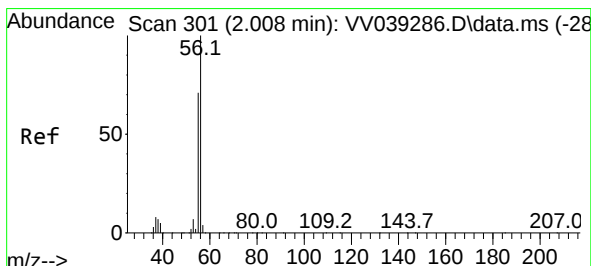
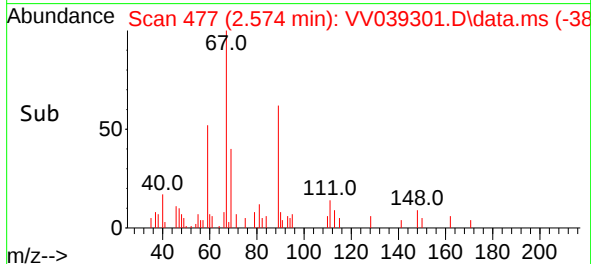
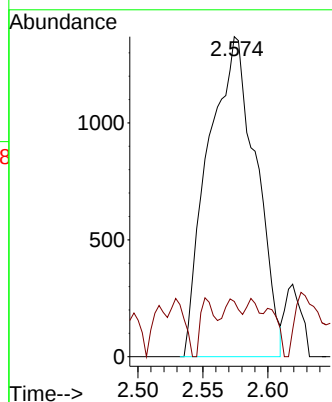
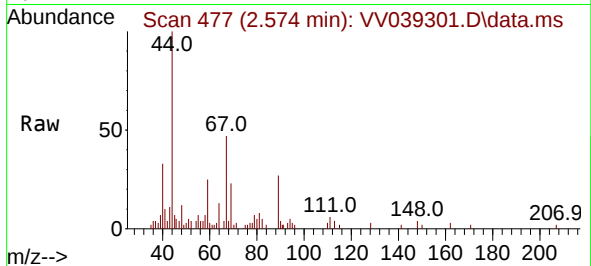




#11
Tert butyl alcohol
Concen: 1.114 ug/l
RT: 2.574 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

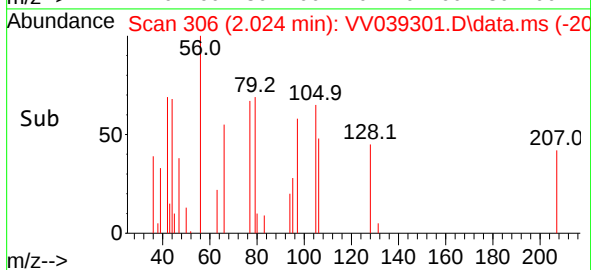
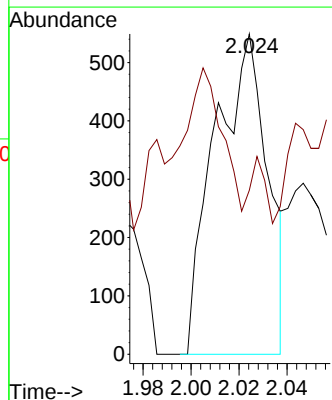
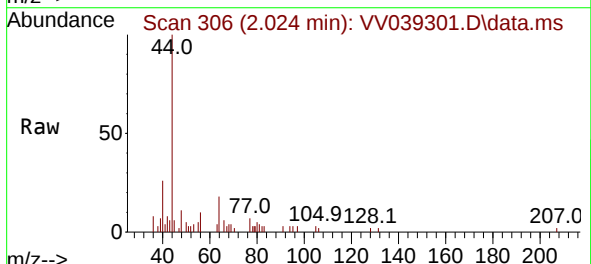
Instrument :
MSVOA_V
ClientSampleId :
4175DL

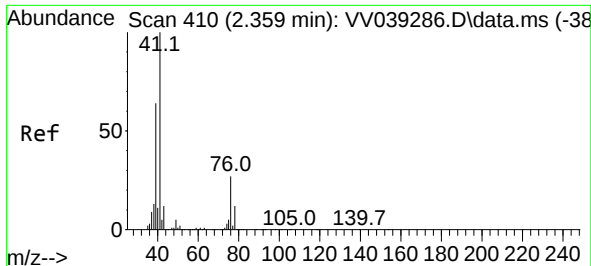
Tgt Ion: 59 Resp: 3507
Ion Ratio Lower Upper
59 100
57 1.7 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.024 min Scan# 306
Delta R.T. 0.016 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion: 56 Resp: 838
Ion Ratio Lower Upper
56 100
55 28.6 56.2 84.4#





#14

Allyl chloride

Concen: 0.854 ug/l

RT: 2.118 min Scan# 31

Delta R.T. -0.241 min

Lab File: VV039301.D

Acq: 21 Oct 2025 13:37

Instrument :

MSVOA_V

ClientSampleId :

4175DL

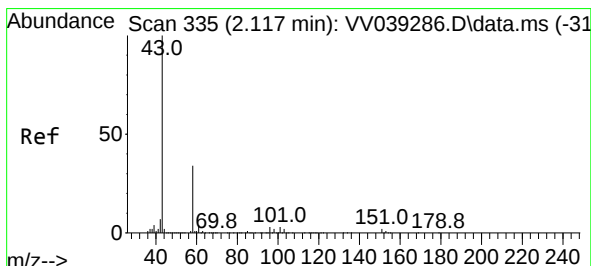
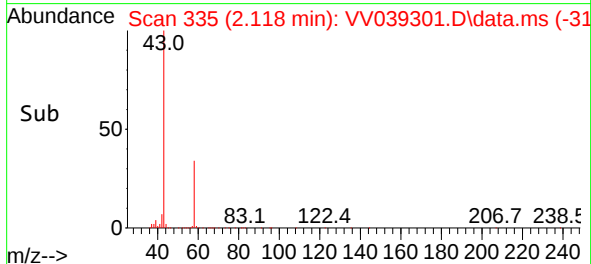
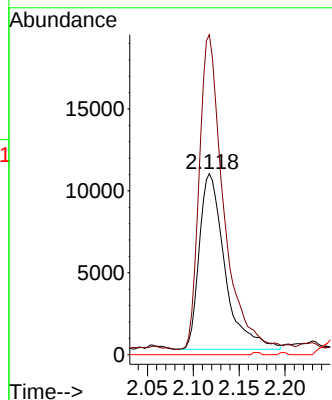
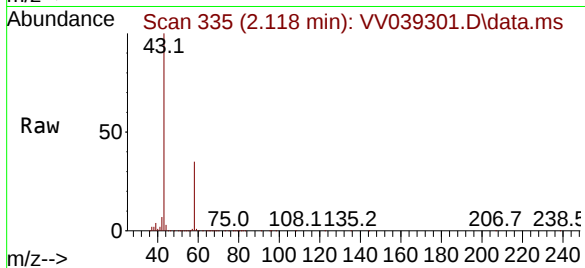
Tgt Ion: 41 Resp: 20867

Ion Ratio Lower Upper

41 100

39 168.9 47.8 71.6#

76 0.0 30.2 45.2#



#16

Acetone

Concen: 120.323 ug/l

RT: 2.118 min Scan# 335

Delta R.T. 0.000 min

Lab File: VV039301.D

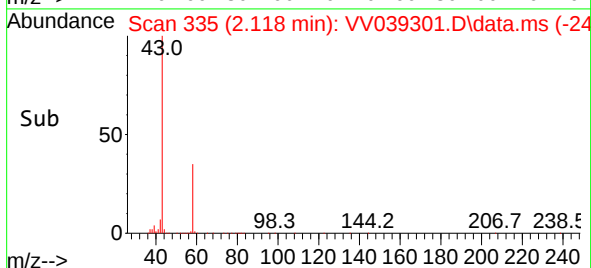
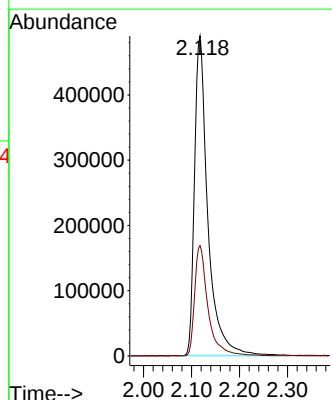
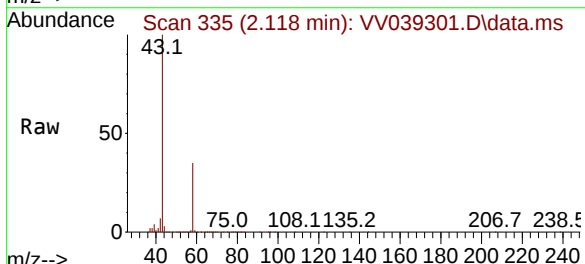
Acq: 21 Oct 2025 13:37

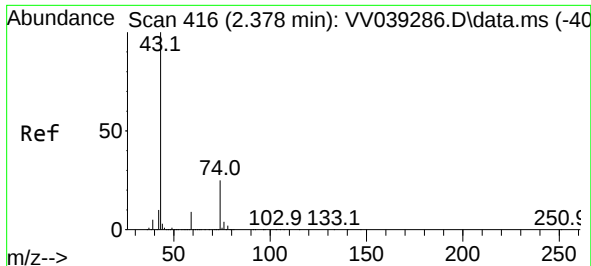
Tgt Ion: 43 Resp: 948622

Ion Ratio Lower Upper

43 100

58 34.5 27.5 41.3

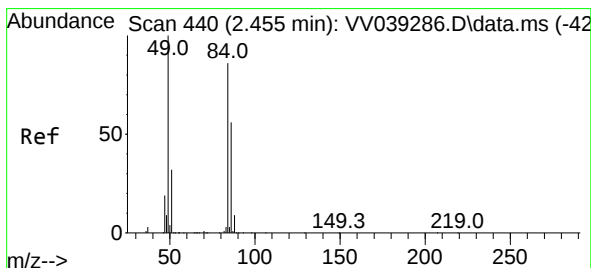
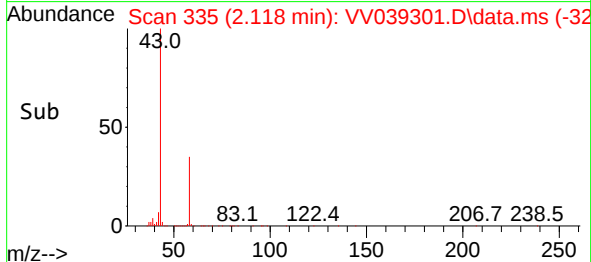
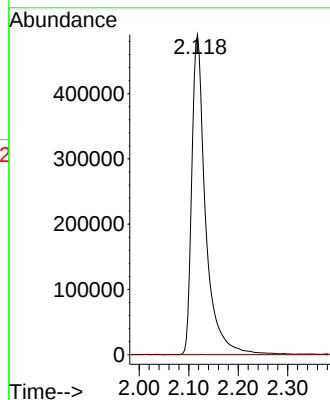
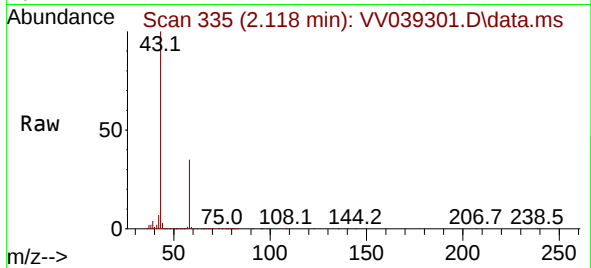




#18
Methyl Acetate
Concen: 44.925 ug/l
RT: 2.118 min Scan# 31
Delta R.T. -0.260 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

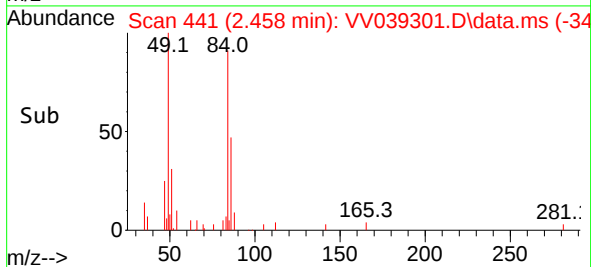
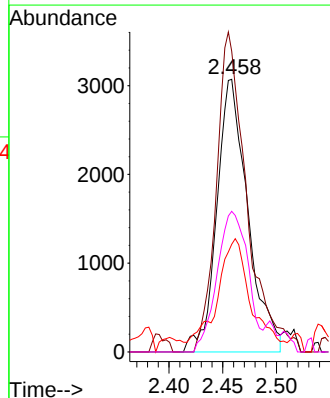
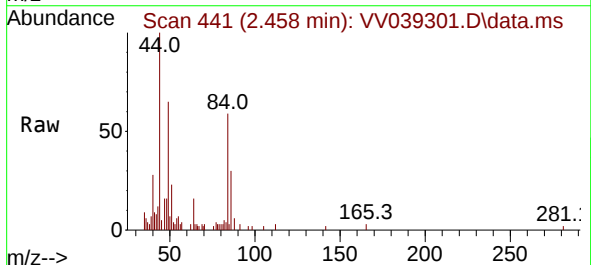
Instrument :
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ClientSampleId :
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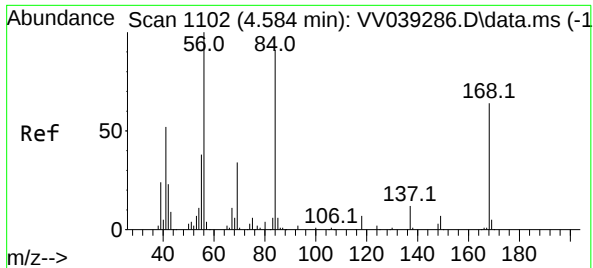
Tgt Ion: 43 Resp: 945736
Ion Ratio Lower Upper
43 100
74 0.0 19.5 29.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion: 84 Resp: 6179
Ion Ratio Lower Upper
84 100
49 110.3 92.6 139.0
51 35.7 29.6 44.4
86 51.6 51.4 77.2

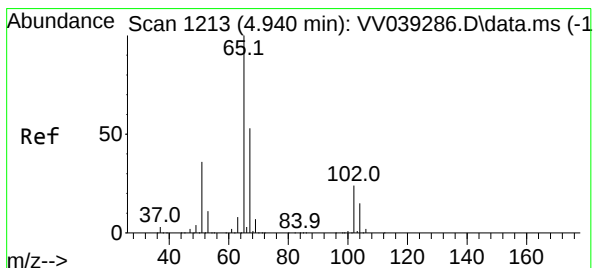
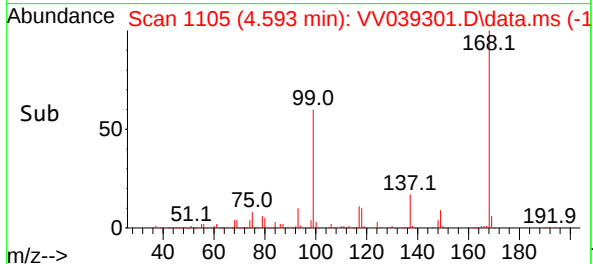
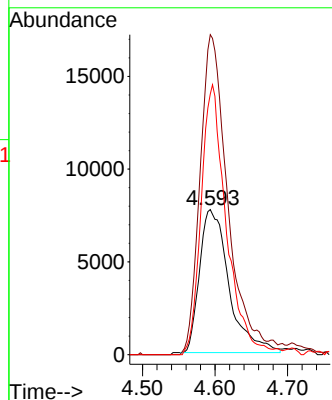
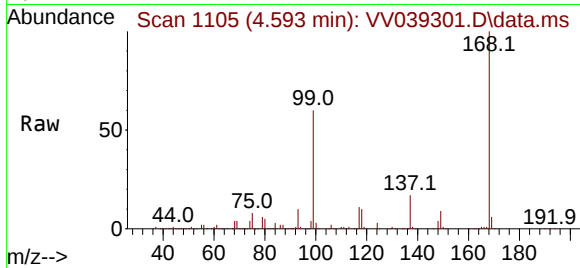




#31
Cyclohexane
Concen: 1.019 ug/l
RT: 4.593 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

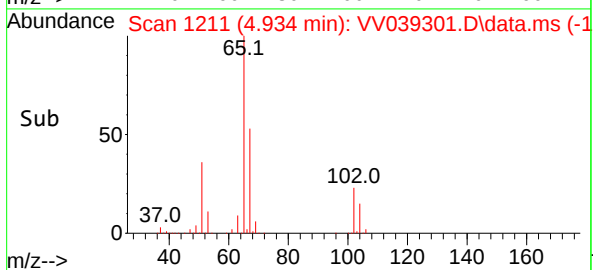
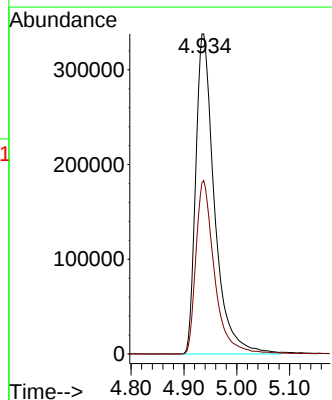
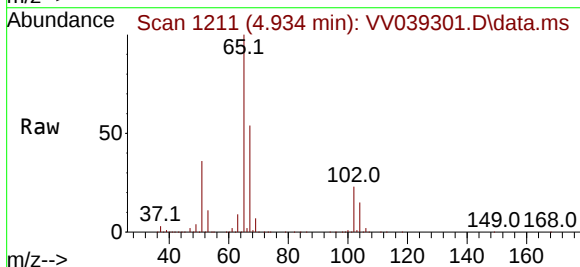
Instrument :
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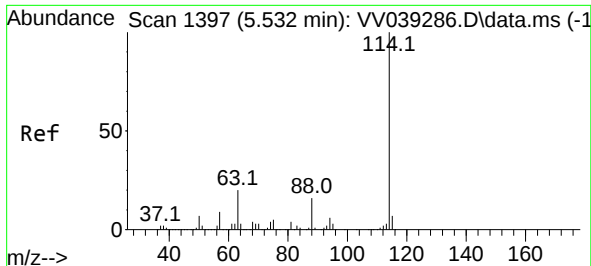
Tgt Ion: 56 Resp: 21812
Ion Ratio Lower Upper
56 100
69 223.6 27.4 41.0#
84 182.2 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 51.237 ug/l
RT: 4.934 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion: 65 Resp: 832383
Ion Ratio Lower Upper
65 100
67 53.5 0.0 108.4

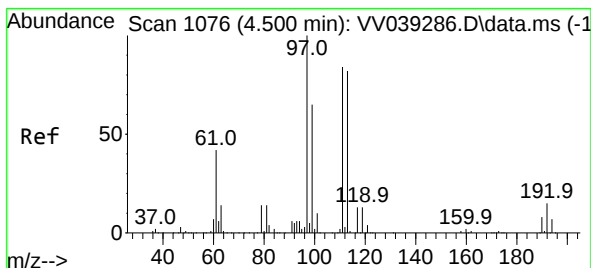
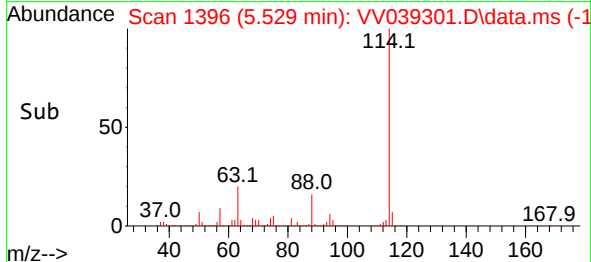
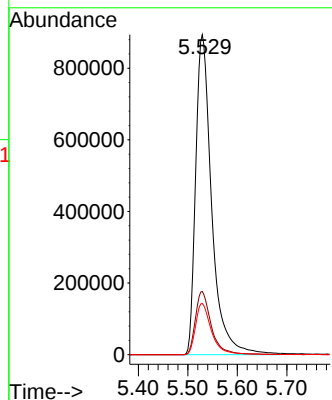
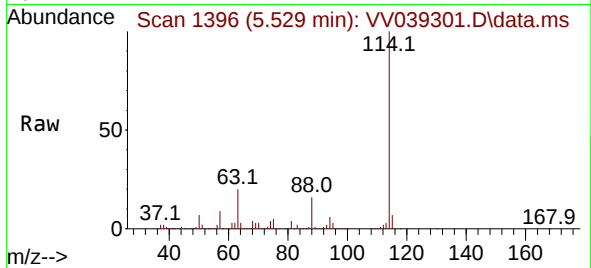




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

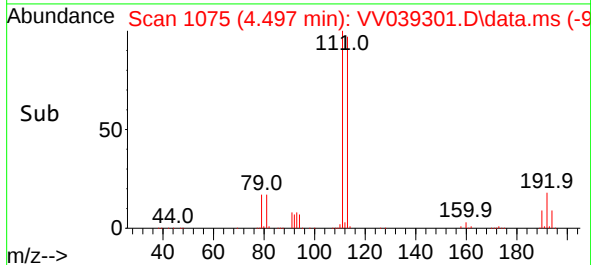
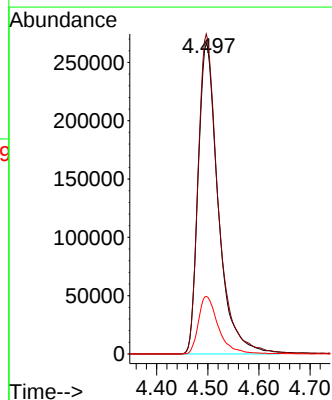
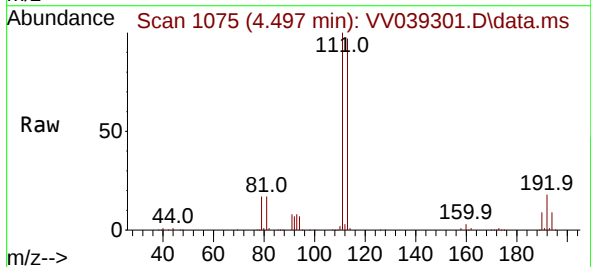
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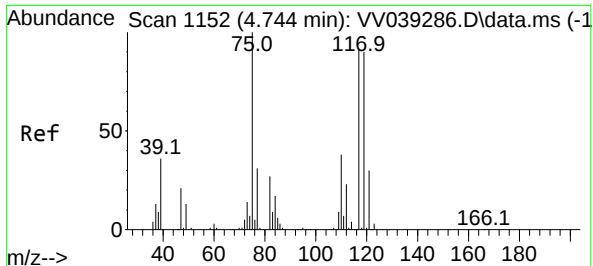
Tgt Ion:114 Resp: 2018397
Ion Ratio Lower Upper
114 100
63 19.7 0.0 39.6
88 16.0 0.0 31.6



#35
Dibromofluoromethane
Concen: 45.807 ug/l
RT: 4.497 min Scan# 1075
Delta R.T. -0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion:113 Resp: 728500
Ion Ratio Lower Upper
113 100
111 102.8 82.0 123.0
192 18.3 14.3 21.5

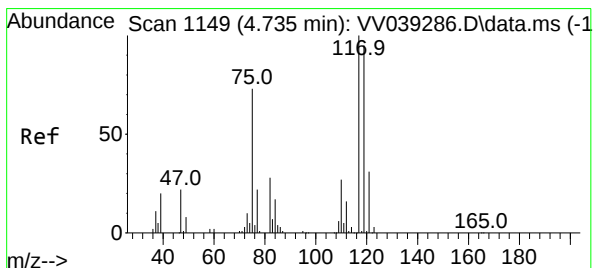
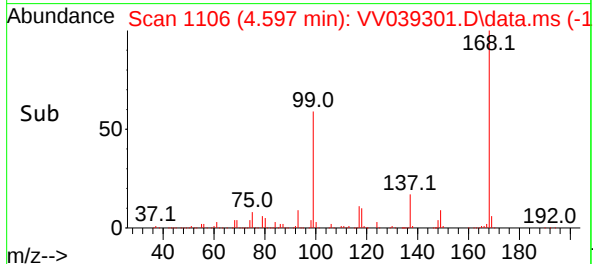
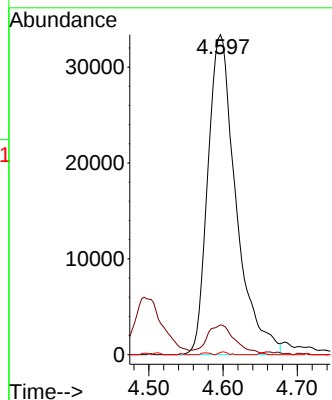
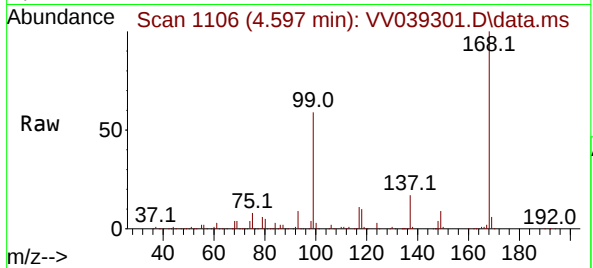




#36
 1,1-Dichloropropene
 Concen: 4.401 ug/l
 RT: 4.597 min Scan# 1106
 Delta R.T. -0.148 min
 Lab File: VV039301.D
 Acq: 21 Oct 2025 13:37

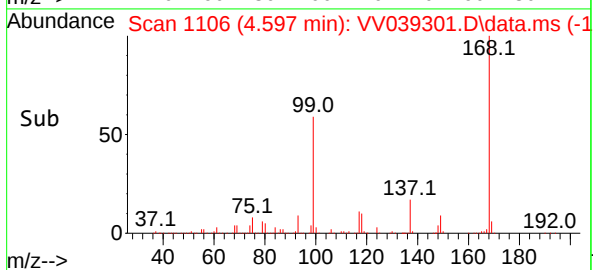
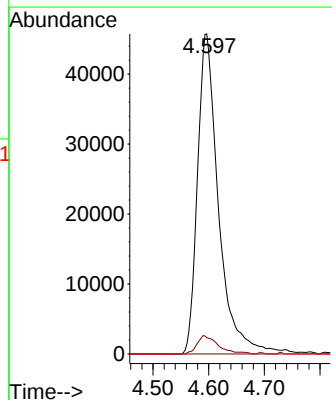
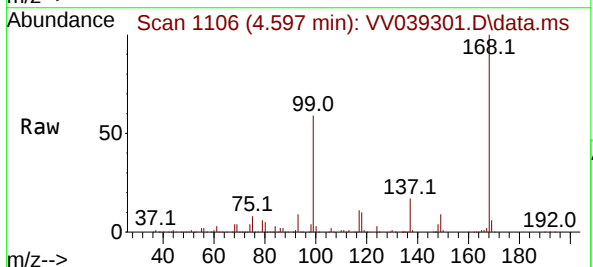
Instrument :
 MSVOA_V
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 4175DL

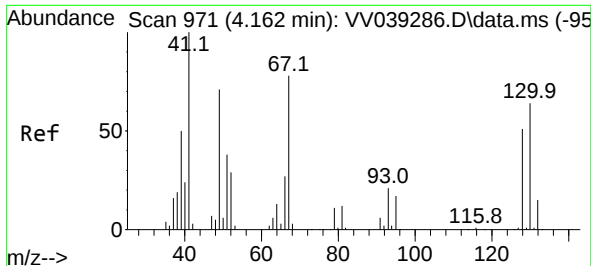
Tgt Ion: 75 Resp: 87911
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.9 56.7#
 77 0.3 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 4.922 ug/l
 RT: 4.597 min Scan# 1106
 Delta R.T. -0.138 min
 Lab File: VV039301.D
 Acq: 21 Oct 2025 13:37

Tgt Ion: 117 Resp: 119773
 Ion Ratio Lower Upper
 117 100
 119 5.1 75.9 113.9#
 121 0.0 24.6 37.0#

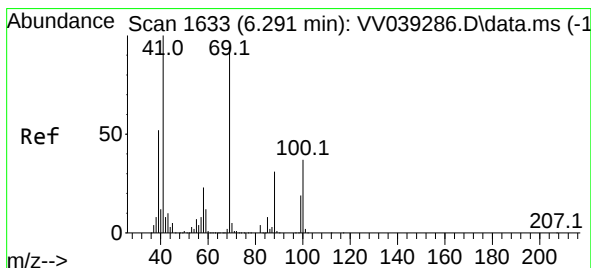
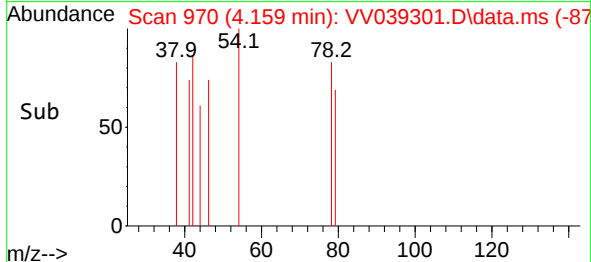
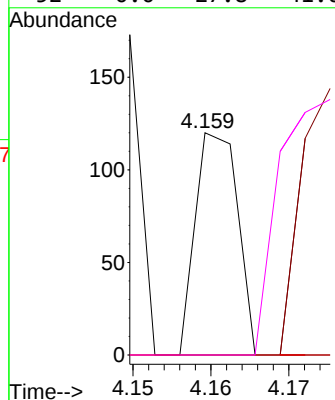
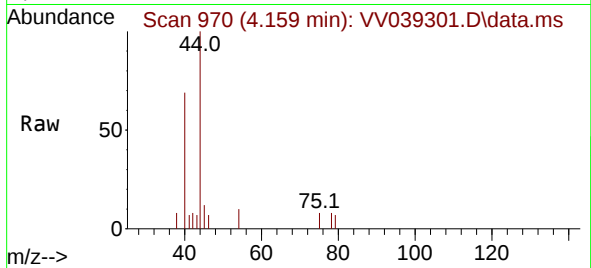




#41
Methacrylonitrile
Concen: 1.696 ug/l
RT: 4.159 min Scan# 91
Delta R.T. -0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

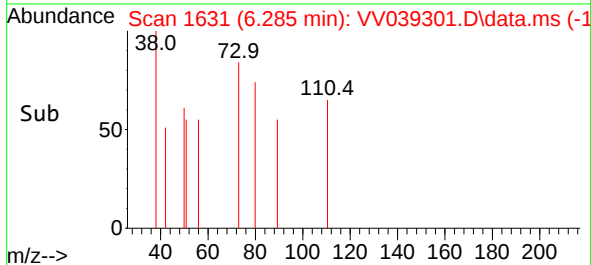
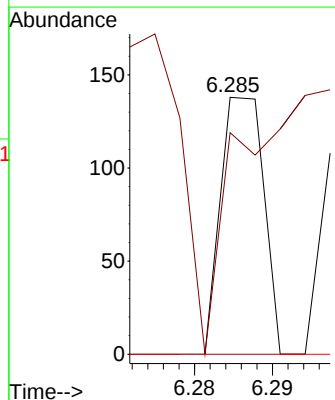
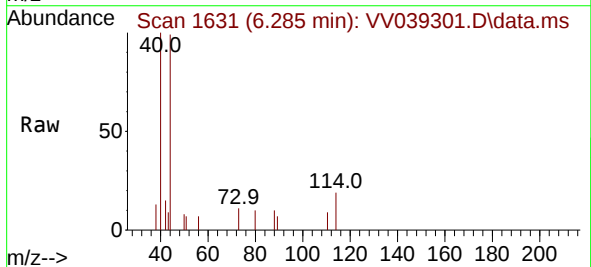
Instrument :
MSVOA_V
ClientSampleId :
4175DL

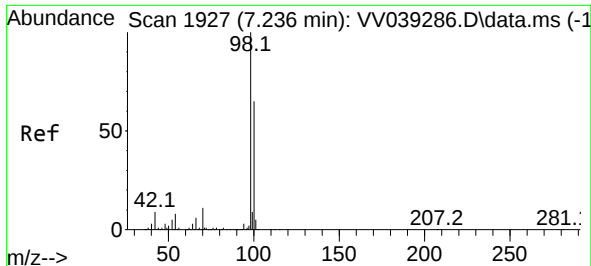
Tgt Ion:	41	Resp:	45
Ion	Ratio	Lower	Upper
41	100		
39	0.0	40.9	61.3#
67	0.0	73.1	109.7#
52	0.0	27.8	41.6#



#49
1,4-Dioxane
Concen: 0.225 ug/l
RT: 6.285 min Scan# 1631
Delta R.T. -0.006 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion:	88	Resp:	53
Ion	Ratio	Lower	Upper
88	100		
43	209.4	24.1	36.1#
58	0.0	57.6	86.4#

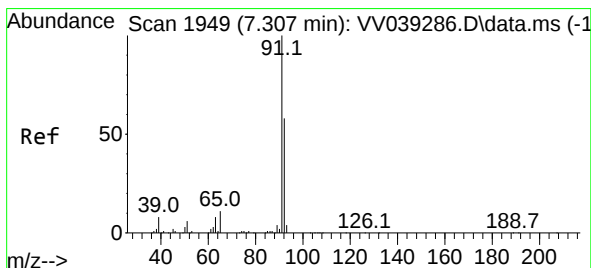
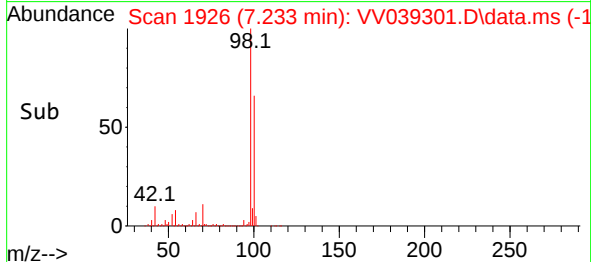
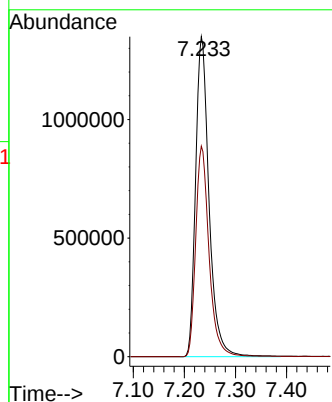
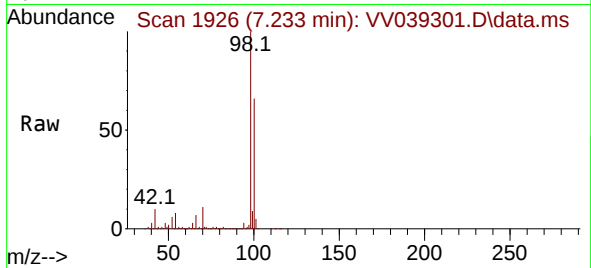




#50
Toluene-d8
Concen: 45.470 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. -0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

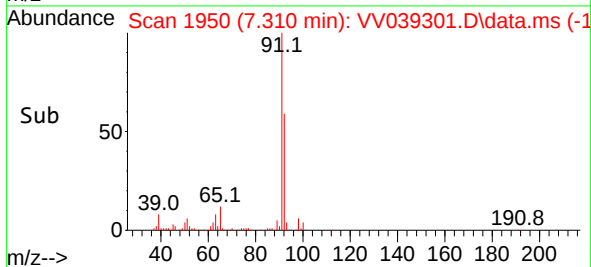
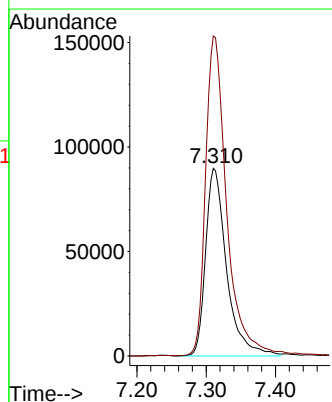
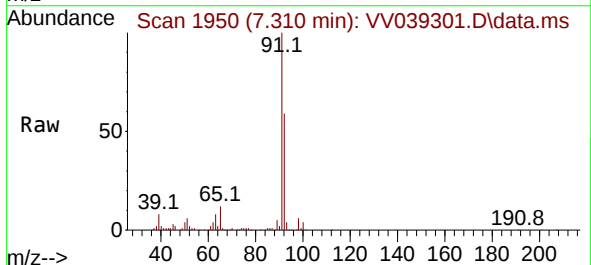
Instrument :
MSVOA_V
ClientSampleId :
4175DL

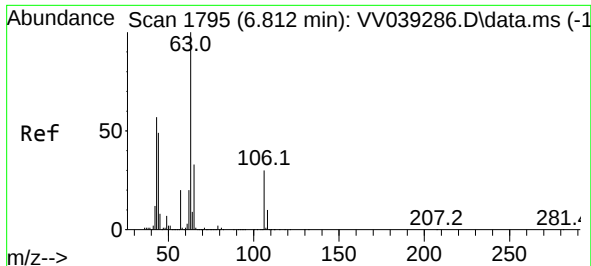
Tgt Ion: 98 Resp: 2460080
Ion Ratio Lower Upper
98 100
100 65.4 52.8 79.2



#52
Toluene
Concen: 4.890 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.003 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion: 92 Resp: 189238
Ion Ratio Lower Upper
92 100
91 170.9 137.3 205.9

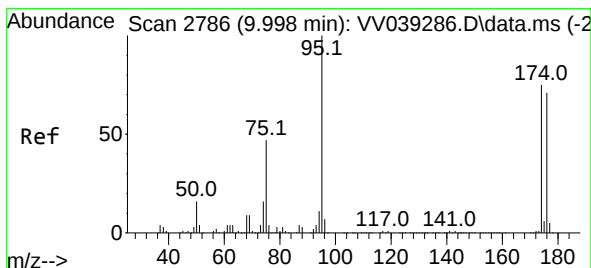
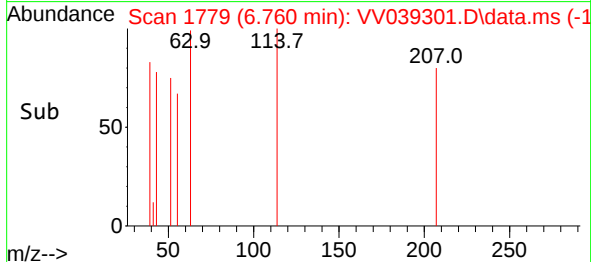
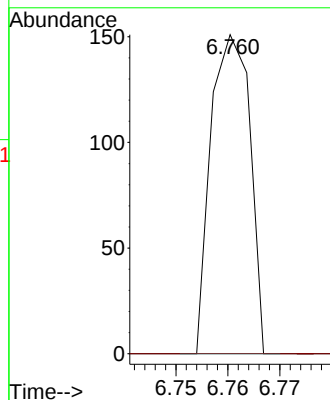
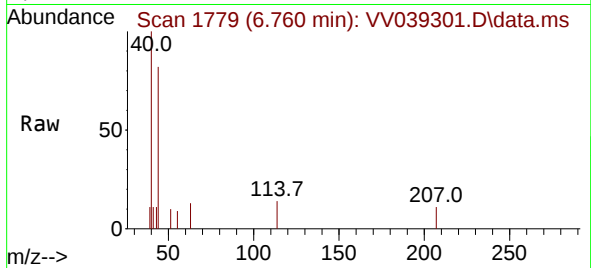




#58
2-Chloroethyl Vinyl ether
Concen: 8.474 ug/l
RT: 6.760 min Scan# 1795
Delta R.T. -0.051 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

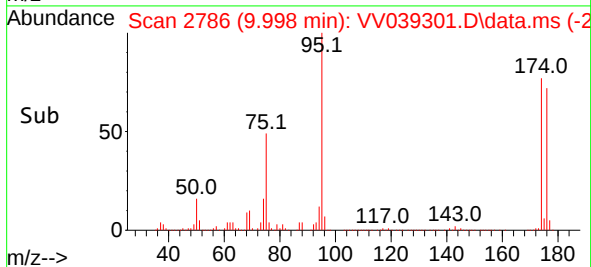
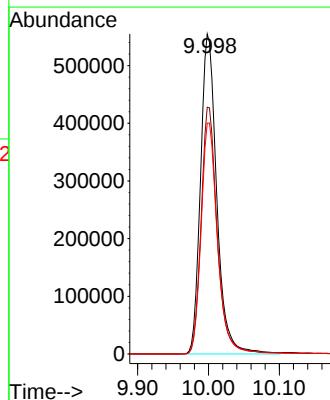
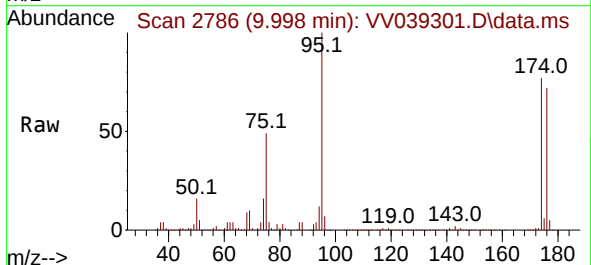
Instrument :
MSVOA_V
ClientSampleId :
4175DL

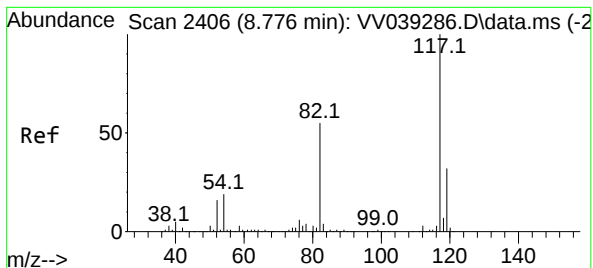
Tgt Ion: 63 Resp: 79
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 45.913 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion: 95 Resp: 884666
Ion Ratio Lower Upper
95 100
174 76.8 0.0 153.6
176 72.5 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2406

Delta R.T. -0.003 min

Lab File: VV039301.D

Acq: 21 Oct 2025 13:37

Instrument :

MSVOA_V

ClientSampleId :

4175DL

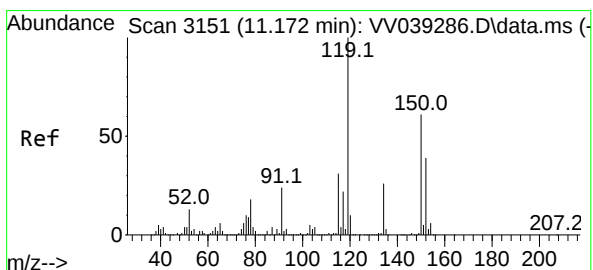
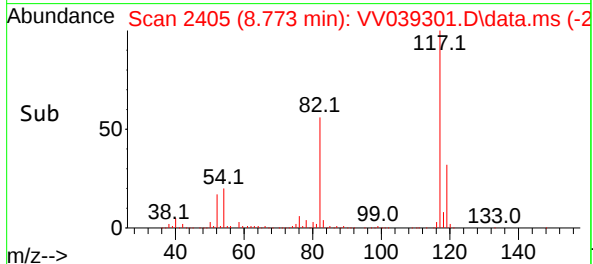
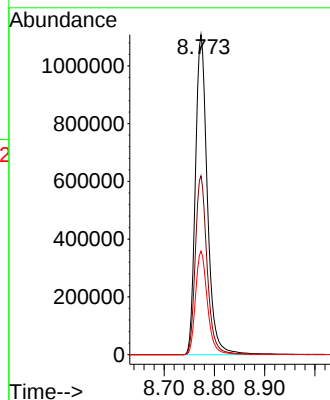
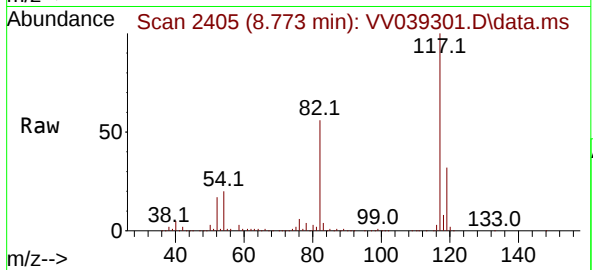
Tgt Ion:117 Resp: 1830240

Ion Ratio Lower Upper

117 100

82 55.9 43.8 65.8

119 32.3 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VV039301.D

Acq: 21 Oct 2025 13:37

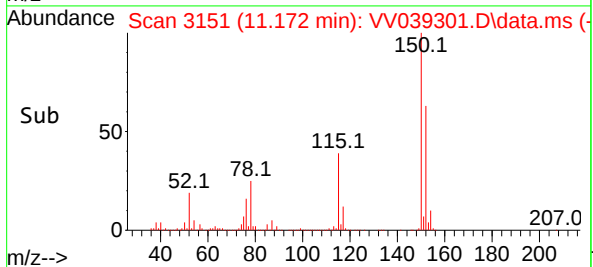
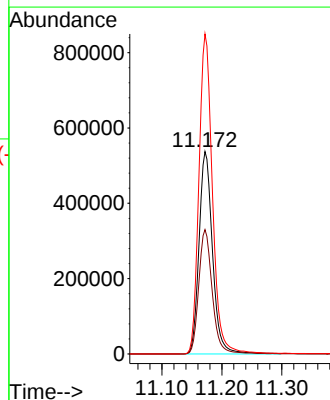
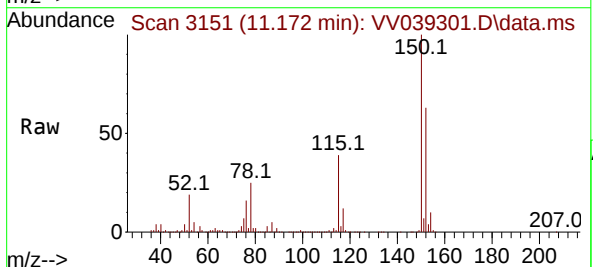
Tgt Ion:152 Resp: 843731

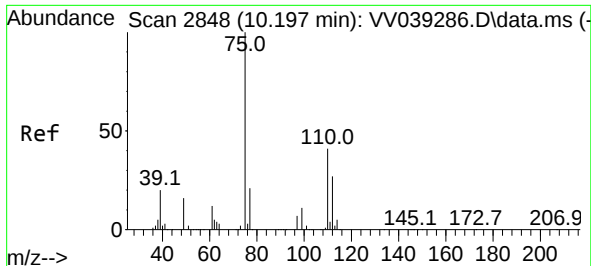
Ion Ratio Lower Upper

152 100

115 61.3 42.3 126.8

150 158.5 0.0 348.0

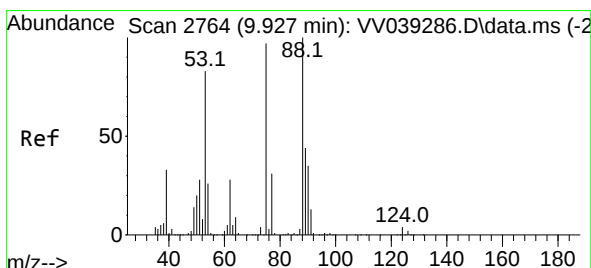
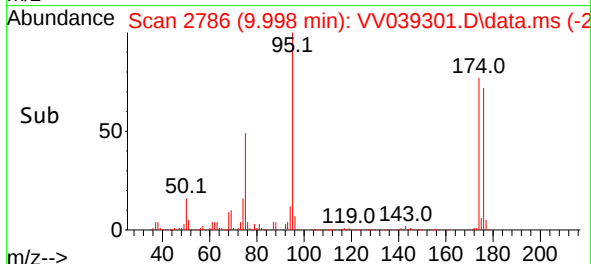
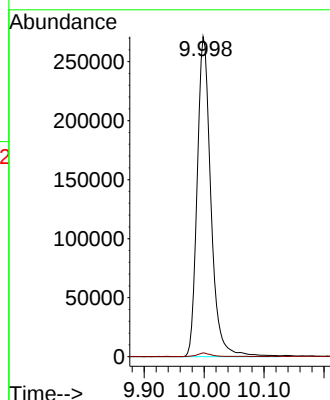
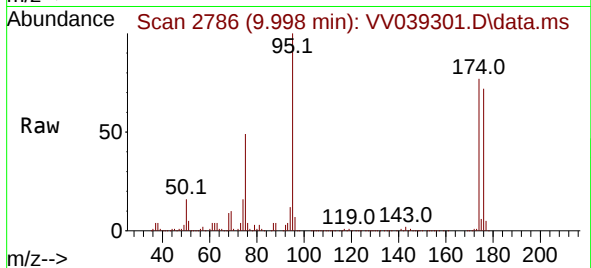




#76
1,2,3-Trichloropropane
Concen: 25.692 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.199 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Instrument :
MSVOA_V
ClientSampleId :
4175DL

Tgt Ion: 75 Resp: 432653
Ion Ratio Lower Upper
75 100
77 1.1 12.2 36.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.885 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.071 min
Lab File: VV039301.D
Acq: 21 Oct 2025 13:37

Tgt Ion: 75 Resp: 432653
Ion Ratio Lower Upper
75 100
53 0.3 69.9 104.9#
89 0.0 37.4 56.0#

