

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
 Data File : VV039001.D
 Acq On : 21 Aug 2025 22:54
 Operator : SY/MD
 Sample : Q2924-08
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 22 04:40:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 04:15:04 2025
 Response via : Initial Calibration

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

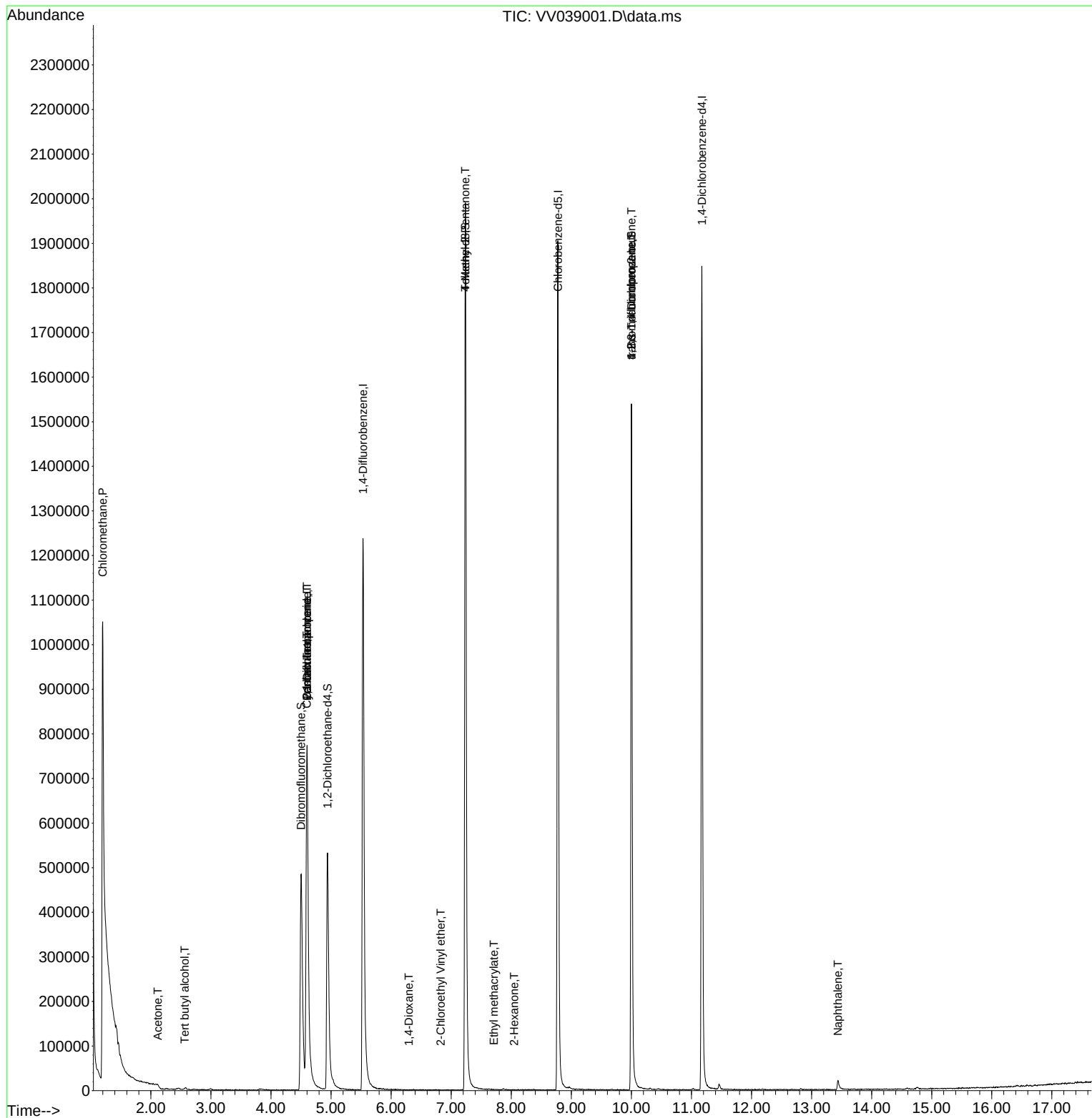
Internal Standards						
1) Pentafluorobenzene	4.600	168	676464	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1214643	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1082468	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	493806	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	484721	51.067	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 102.140%	
35) Dibromofluoromethane	4.500	113	416739	45.749	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 91.500%	
50) Toluene-d8	7.236	98	1409493	44.373	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 88.740%#	
62) 4-Bromofluorobenzene	10.001	95	519985	44.749	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 89.500%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.198	50	35295	3.379	ug/l #	44
11) Tert butyl alcohol	2.564	59	406	0.316	ug/l #	73
13) Acrolein	1.966	56	21	Below Cal	#	13
16) Acetone	2.117	43	1507	0.396	ug/l	97
28) Bromochloromethane	4.198	49	20	Below Cal	#	1
31) Cyclohexane	4.596	56	13888	1.044	ug/l #	3
36) 1,1-Dichloropropene	4.600	75	54721	4.626	ug/l #	46
38) Carbon Tetrachloride	4.600	117	69849	4.409	ug/l #	17
49) 1,4-Dioxane	6.294	88	44	0.333	ug/l #	63
51) 4-Methyl-2-Pentanone	7.236	43	4718	0.407	ug/l #	1
56) Ethyl methacrylate	7.712	69	42	2.318	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.828	63	198	5.012	ug/l #	43
59) 2-Hexanone	8.050	43	21	10.899	ug/l #	21
76) 1,2,3-Trichloropropane	10.001	75	263478	28.766	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	263478	66.043	ug/l #	14
95) Naphthalene	13.438	128	22585	0.748	ug/l #	91

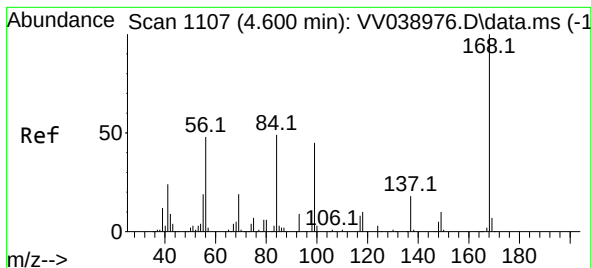
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. -0.000 min

Lab File: VV039001.D

Acq: 21 Aug 2025 22:54

Instrument :

MSVOA_V

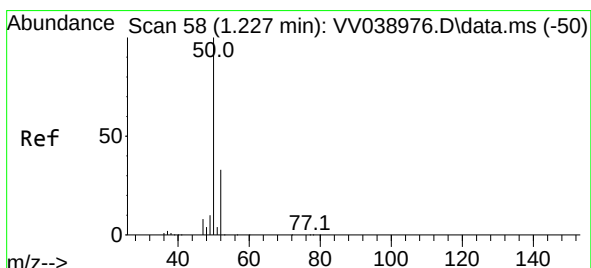
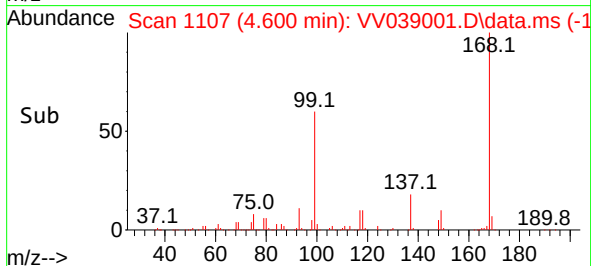
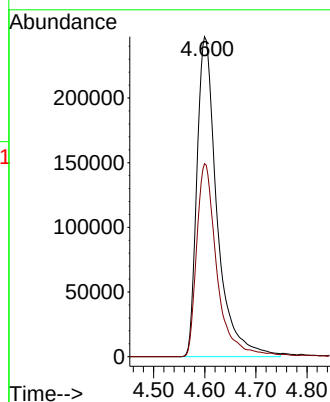
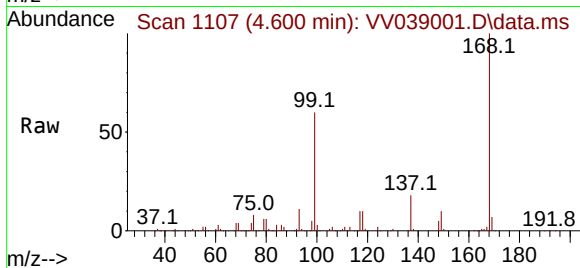
ClientSampleId :

Tgt Ion:168 Resp: 676464

Ion Ratio Lower Upper

168 100

99 60.3 47.0 70.6



#3

Chloromethane

Concen: 3.379 ug/l

RT: 1.198 min Scan# 49

Delta R.T. -0.029 min

Lab File: VV039001.D

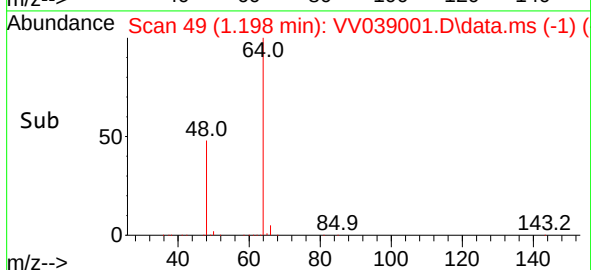
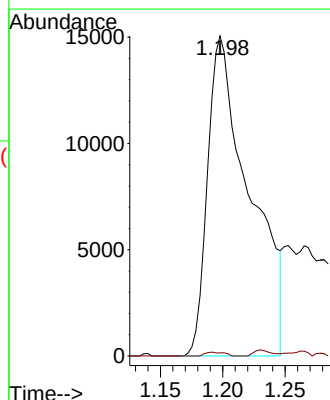
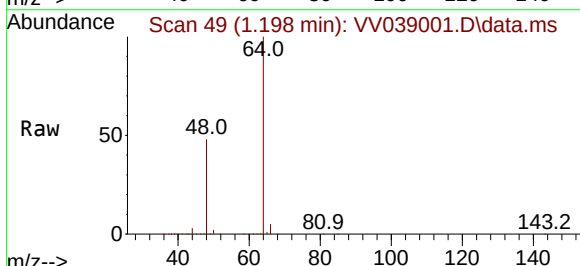
Acq: 21 Aug 2025 22:54

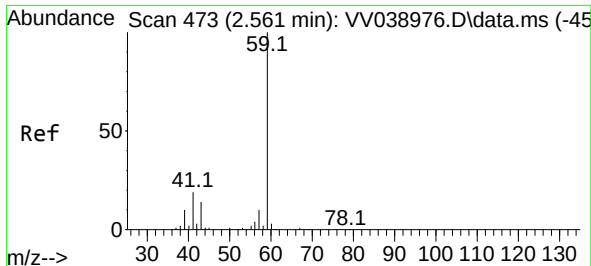
Tgt Ion: 50 Resp: 35295

Ion Ratio Lower Upper

50 100

52 0.9 26.2 39.2#

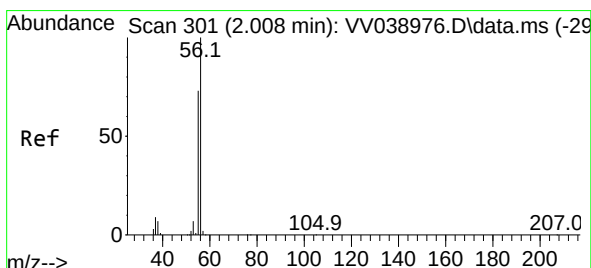
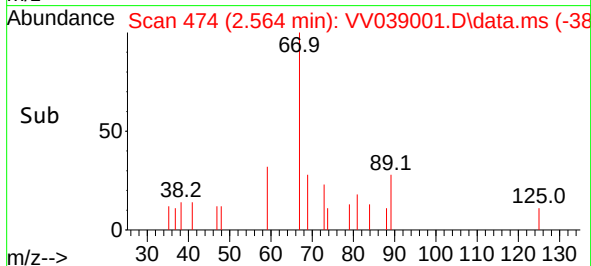
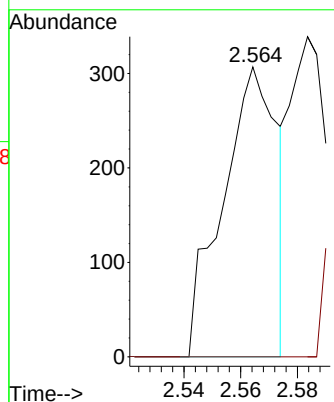
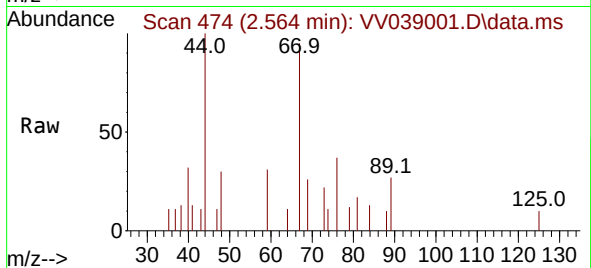




#11
Tert butyl alcohol
Concen: 0.316 ug/l
RT: 2.564 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

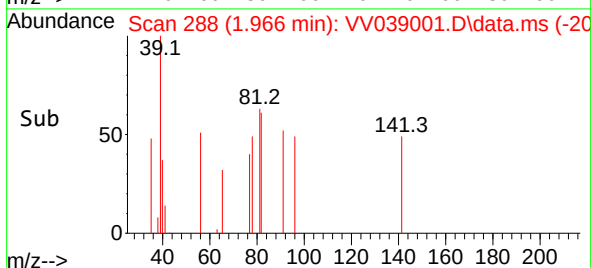
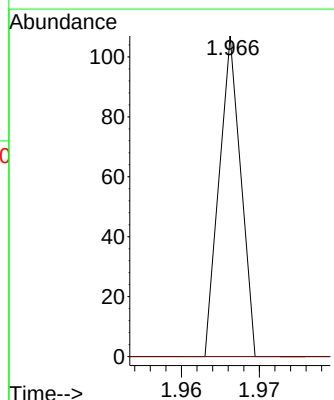
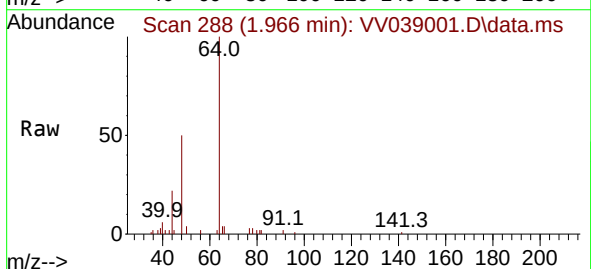
Instrument :
MSVOA_V
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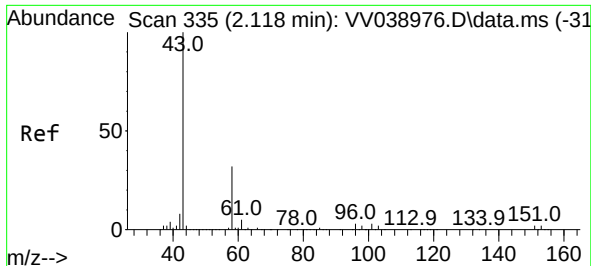
Tgt Ion: 59 Resp: 406
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 1.966 min Scan# 288
Delta R.T. -0.042 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

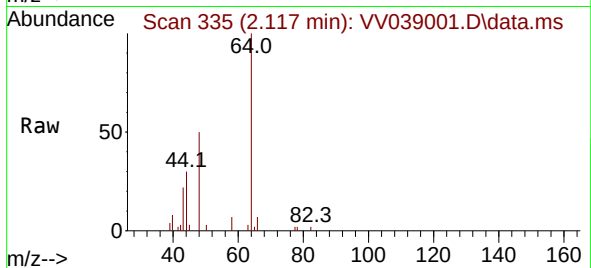
Tgt Ion: 56 Resp: 21
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#



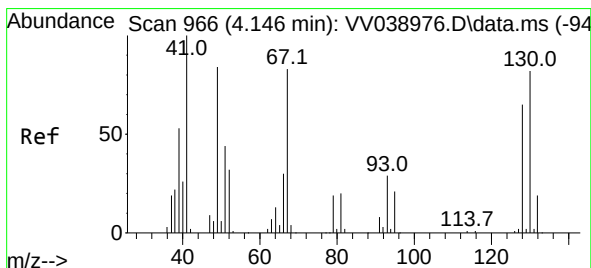
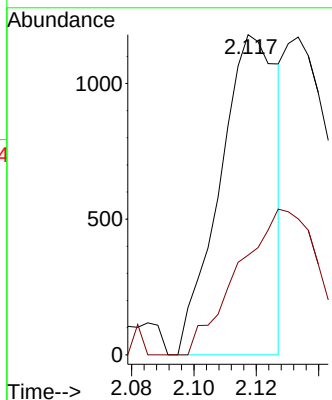
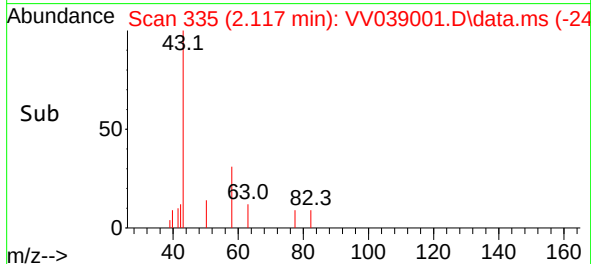


#16
Acetone
Concen: 0.396 ug/l
RT: 2.117 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

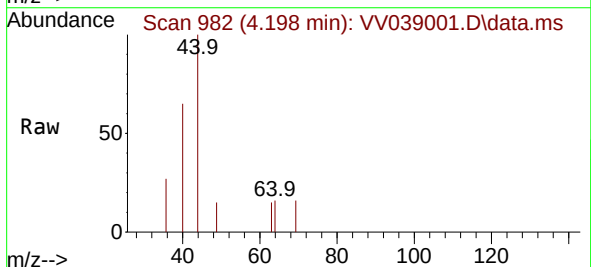
Instrument :
MSVOA_V
ClientSampleId :



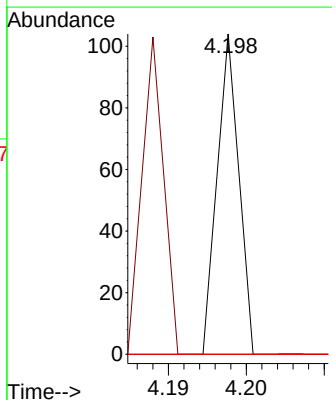
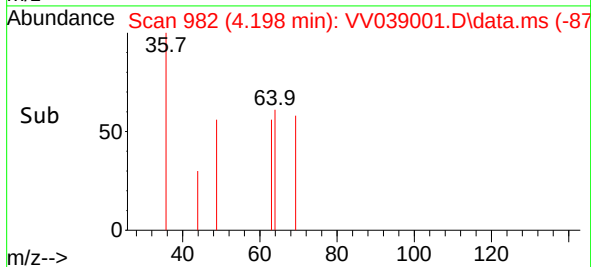
Tgt Ion: 43 Resp: 1507
Ion Ratio Lower Upper
43 100
58 31.1 26.3 39.5

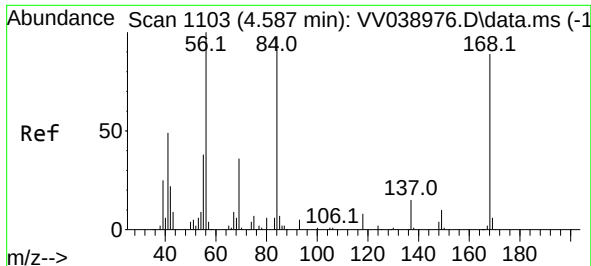


#28
Bromochloromethane
Concen: Below Cal
RT: 4.198 min Scan# 982
Delta R.T. 0.052 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54



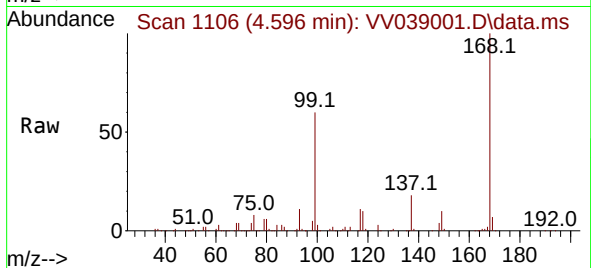
Tgt Ion: 49 Resp: 20
Ion Ratio Lower Upper
49 100
129 100.0 0.0 3.2#
130 0.0 78.2 117.2#



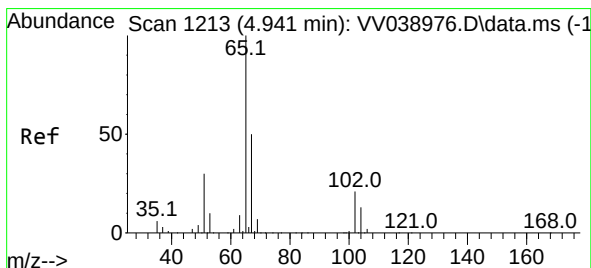
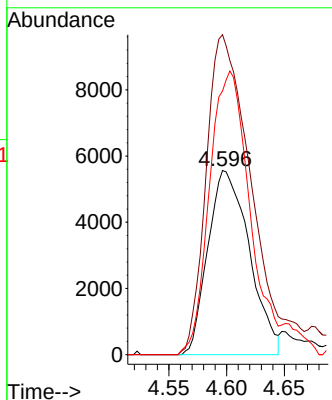
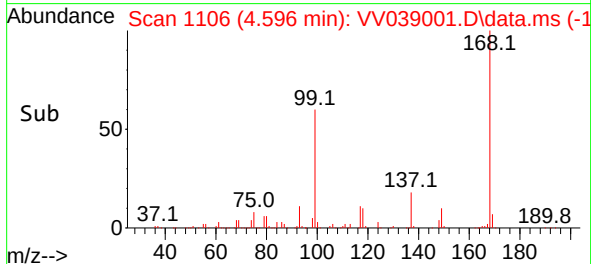


#31
Cyclohexane
Concen: 1.044 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. 0.009 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

Instrument :
MSVOA_V
ClientSampleId :

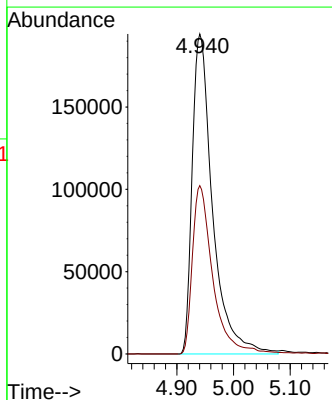
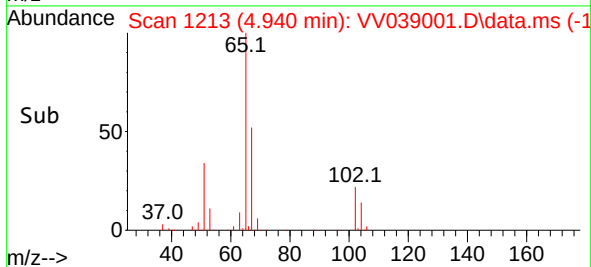
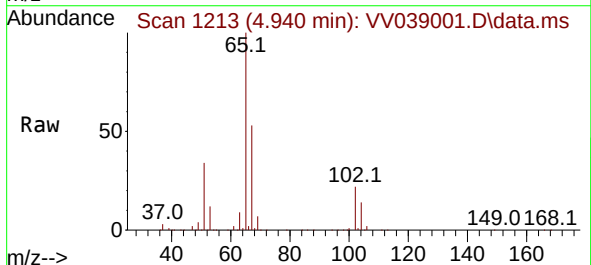


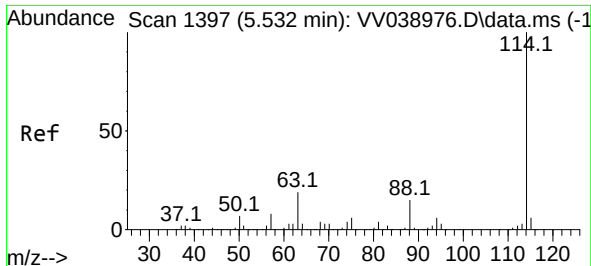
Tgt Ion: 56 Resp: 13888
Ion Ratio Lower Upper
56 100
69 173.8 28.6 42.8#
84 143.2 78.1 117.1#



#33
1,2-Dichloroethane-d4
Concen: 51.067 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. -0.000 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

Tgt Ion: 65 Resp: 484721
Ion Ratio Lower Upper
65 100
67 53.0 0.0 100.4

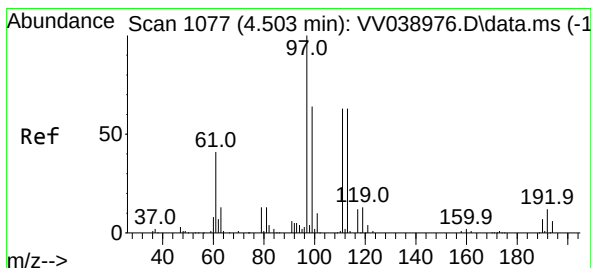
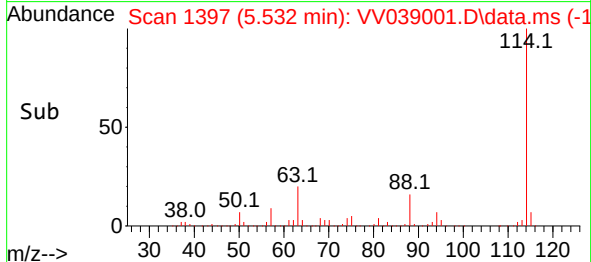
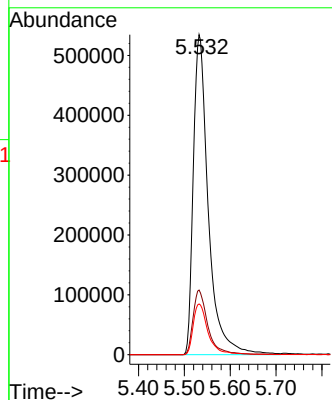
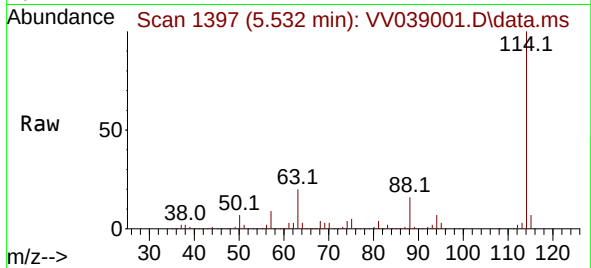




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

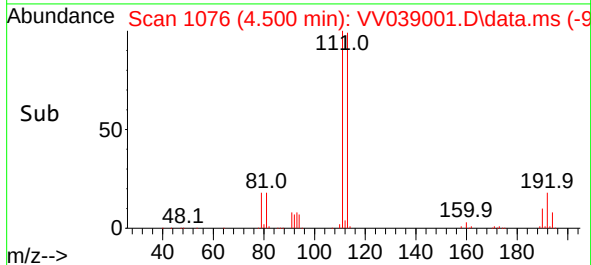
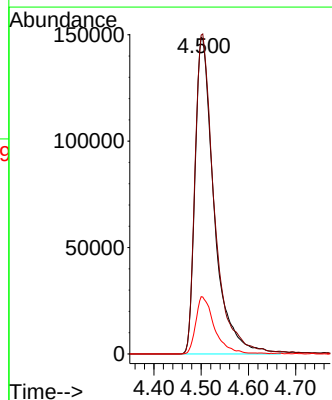
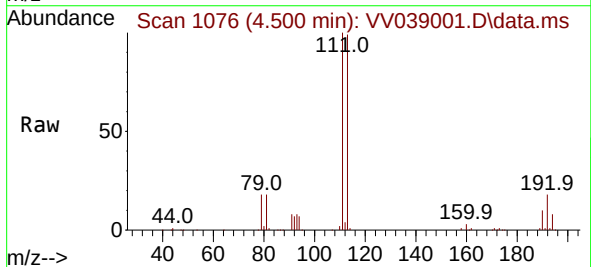
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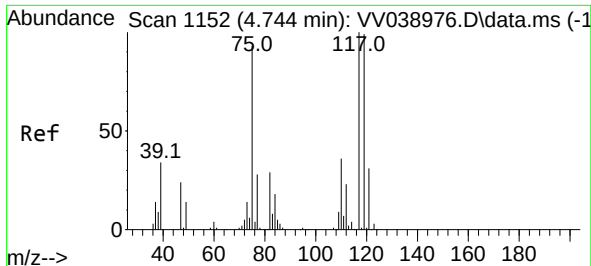
Tgt Ion:114 Resp: 1214643
Ion Ratio Lower Upper
114 100
63 20.2 0.0 37.4
88 15.9 0.0 30.4



#35
Dibromofluoromethane
Concen: 45.749 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. -0.003 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

Tgt Ion:113 Resp: 416739
Ion Ratio Lower Upper
113 100
111 101.6 81.3 121.9
192 17.6 15.4 23.0

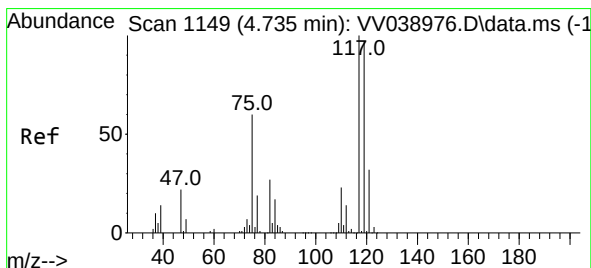
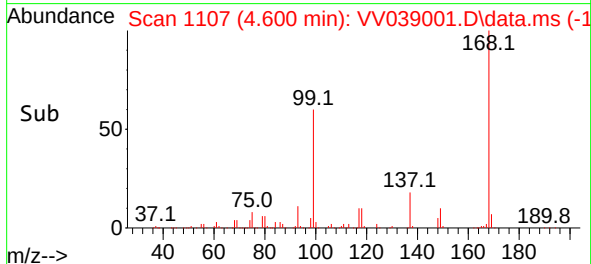
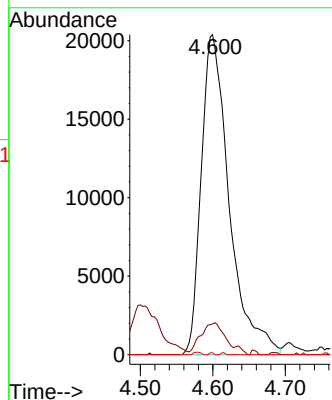
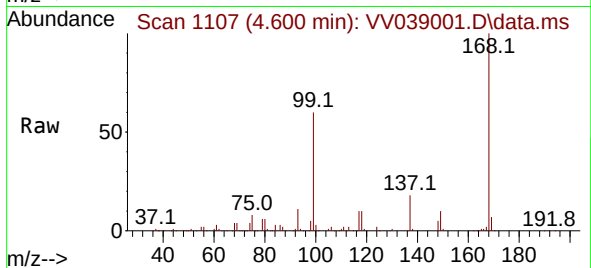




#36
1,1-Dichloropropene
Concen: 4.626 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.145 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

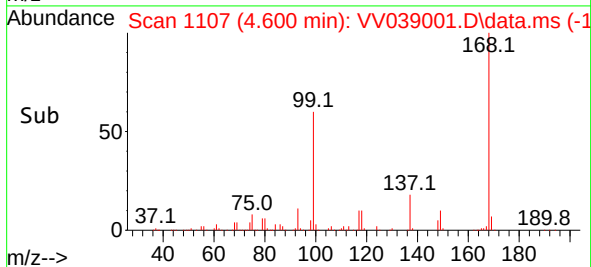
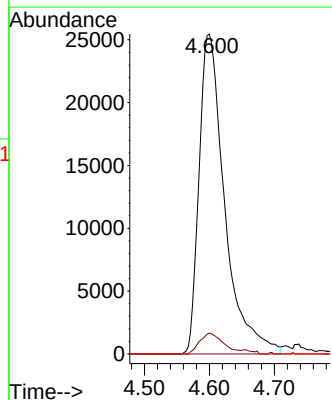
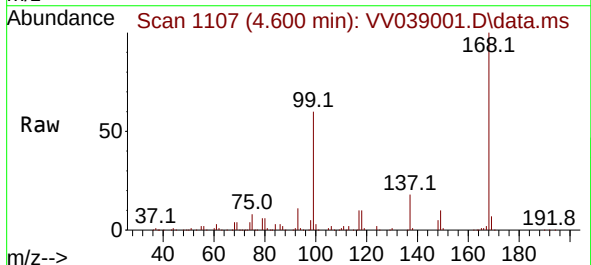
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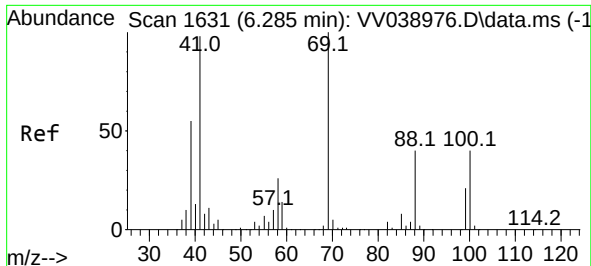
Tgt Ion: 75 Resp: 54721
Ion Ratio Lower Upper
75 100
110 7.2 19.6 58.7#
77 0.1 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 4.409 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

Tgt Ion: 117 Resp: 69849
Ion Ratio Lower Upper
117 100
119 6.5 77.1 115.7#
121 0.0 25.4 38.2#





#49

1,4-Dioxane

Concen: 0.333 ug/l

RT: 6.294 min Scan# 1

Delta R.T. 0.009 min

Lab File: VV039001.D

Acq: 21 Aug 2025 22:54

Instrument :

MSVOA_V

ClientSampleId :

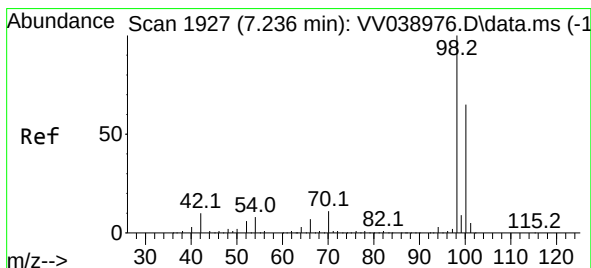
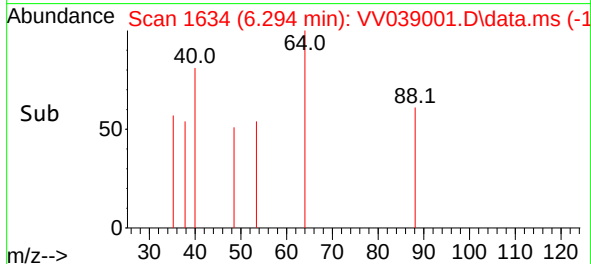
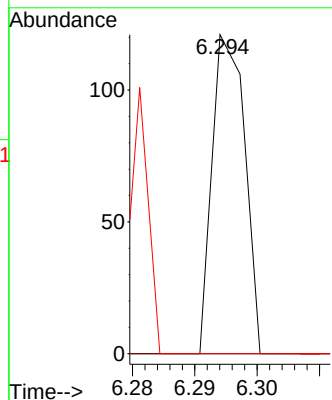
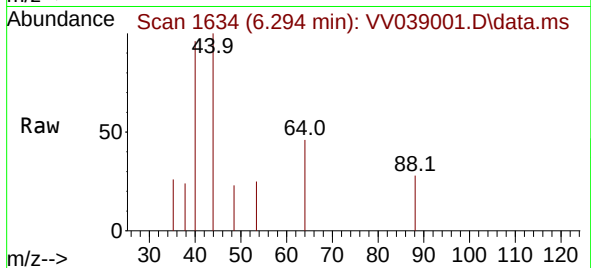
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 0.0 24.6 36.8#

58 43.2 51.8 77.6#



#50

Toluene-d8

Concen: 44.373 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. -0.000 min

Lab File: VV039001.D

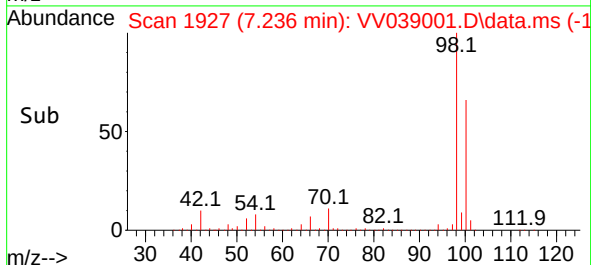
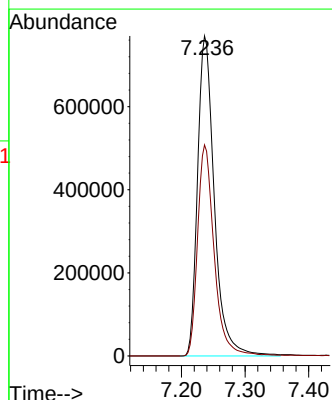
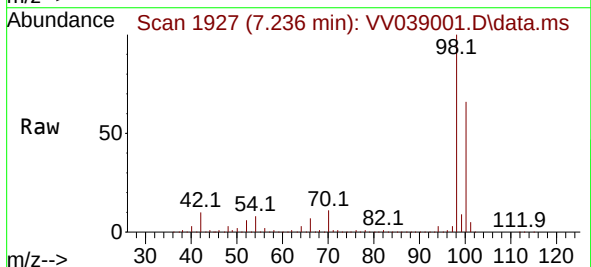
Acq: 21 Aug 2025 22:54

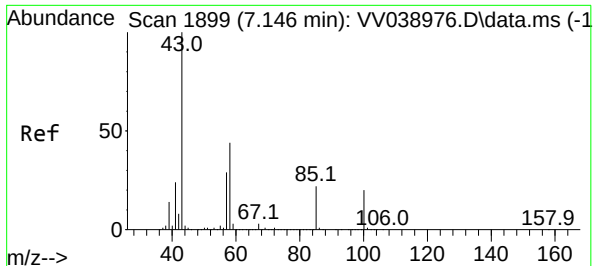
Tgt Ion: 98 Resp: 1409493

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 0.407 ug/l

RT: 7.236 min Scan# 19

Delta R.T. 0.090 min

Lab File: VV039001.D

Acq: 21 Aug 2025 22:54

Instrument :

MSVOA_V

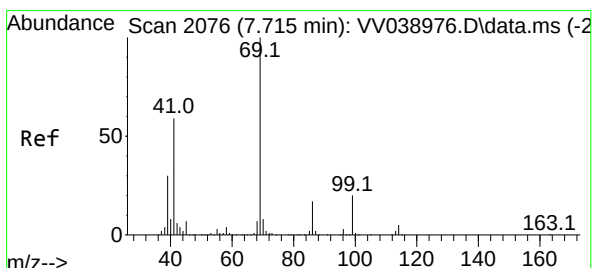
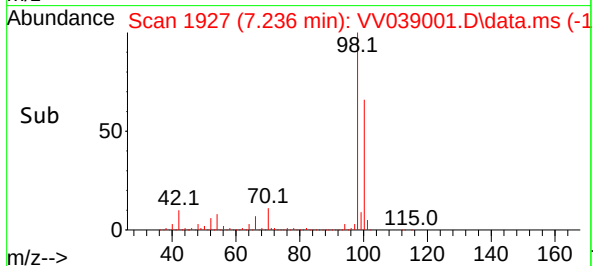
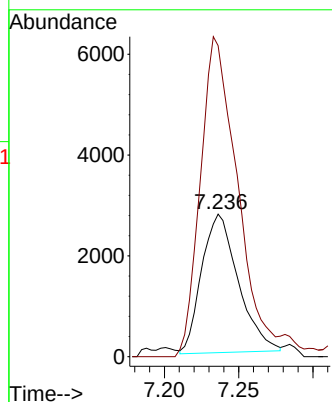
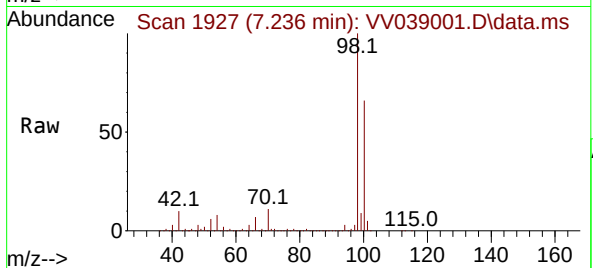
ClientSampleId :

Tgt Ion: 43 Resp: 4718

Ion Ratio Lower Upper

43 100

58 241.7 34.6 51.8#



#56

Ethyl methacrylate

Concen: 2.318 ug/l

RT: 7.712 min Scan# 2075

Delta R.T. -0.003 min

Lab File: VV039001.D

Acq: 21 Aug 2025 22:54

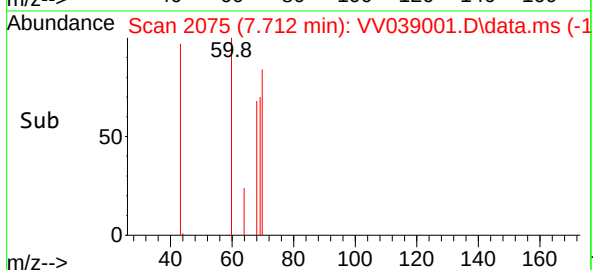
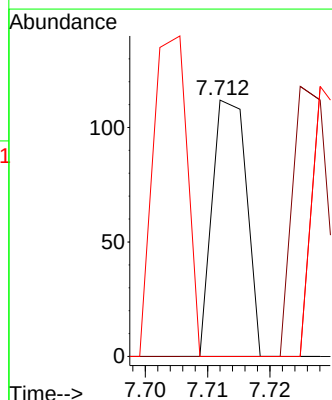
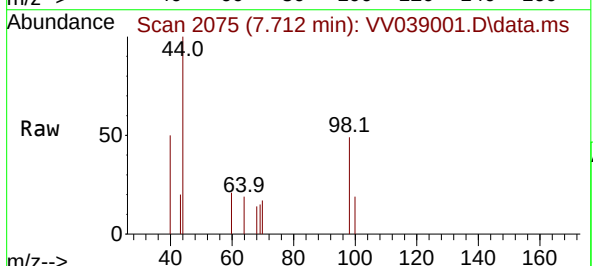
Tgt Ion: 69 Resp: 42

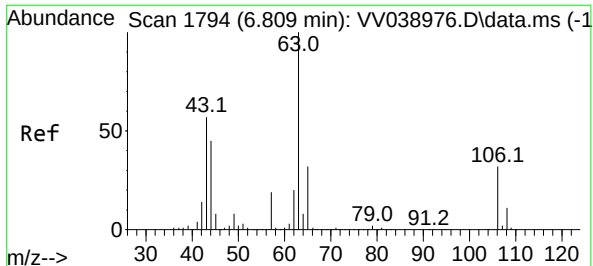
Ion Ratio Lower Upper

69 100

41 0.0 47.5 71.3#

39 126.2 24.2 36.2#

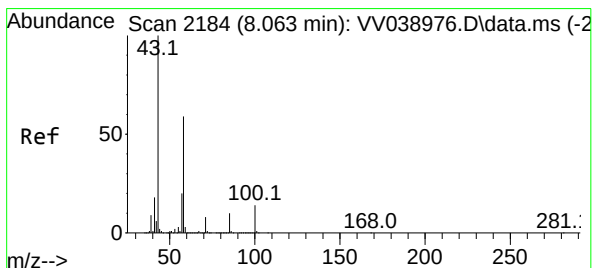
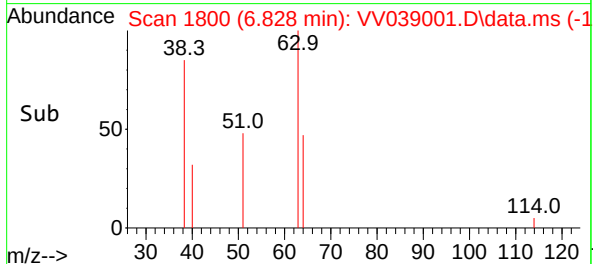
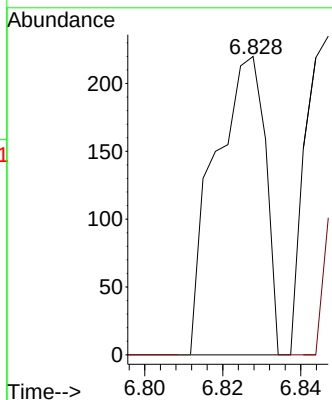
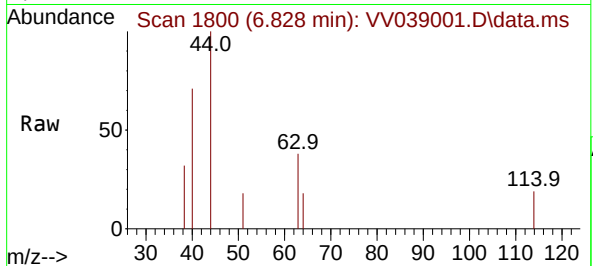




#58
2-Chloroethyl Vinyl ether
Concen: 5.012 ug/l
RT: 6.828 min Scan# 11
Delta R.T. 0.019 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

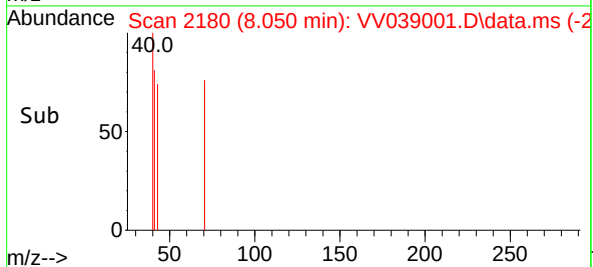
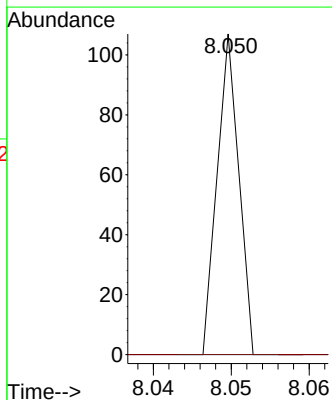
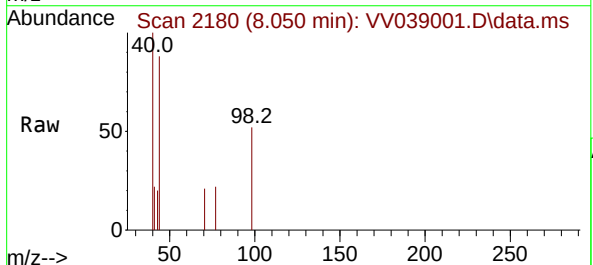
Instrument :
MSVOA_V
ClientSampleId :

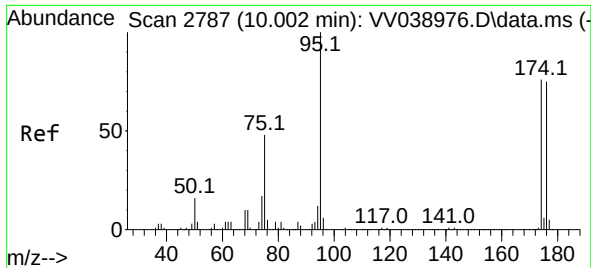
Tgt Ion: 63 Resp: 198
Ion Ratio Lower Upper
63 100
106 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 10.899 ug/l
RT: 8.050 min Scan# 2180
Delta R.T. -0.013 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

Tgt Ion: 43 Resp: 21
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#

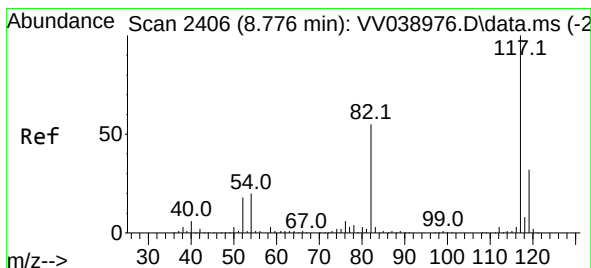
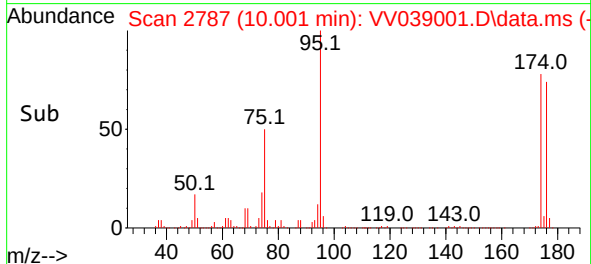
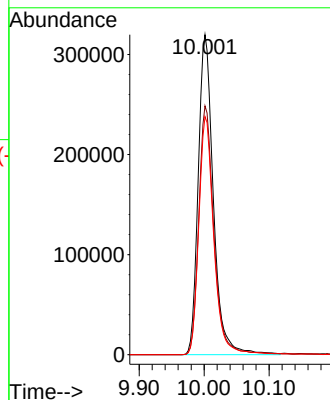
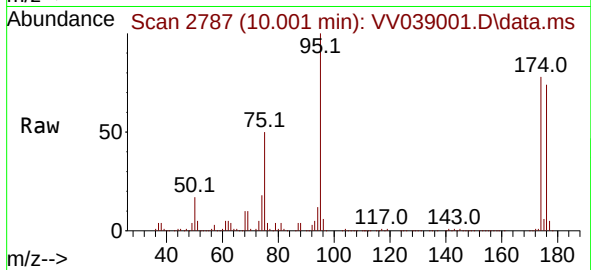




#62
 4-Bromofluorobenzene
 Concen: 44.749 ug/l
 RT: 10.001 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VV039001.D
 Acq: 21 Aug 2025 22:54

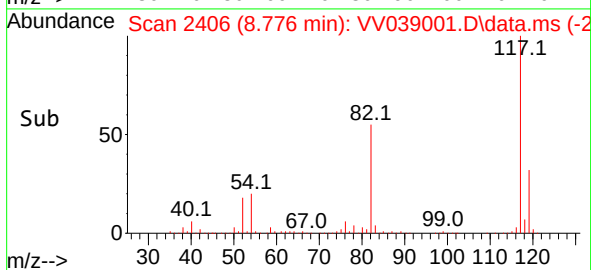
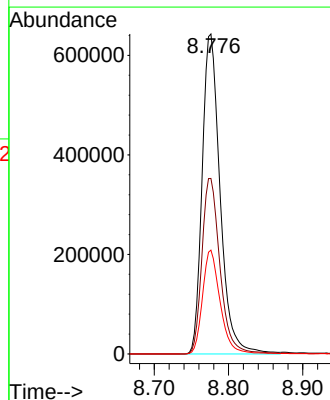
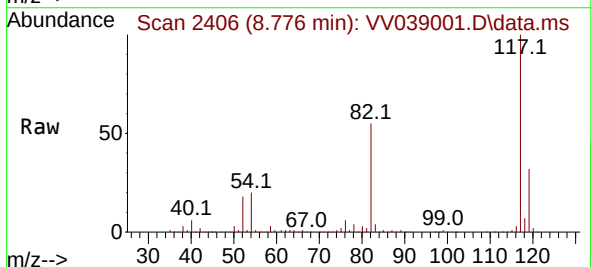
Instrument :
 MSVOA_V
 ClientSampleId :

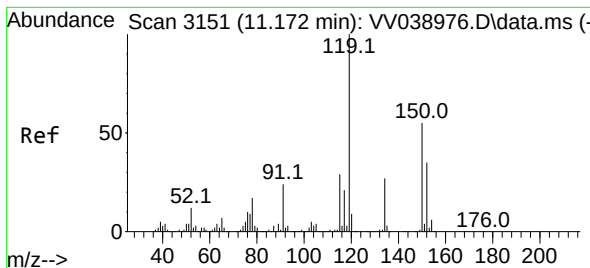
Tgt Ion: 95 Resp: 519985
 Ion Ratio Lower Upper
 95 100
 174 77.5 0.0 154.4
 176 74.3 0.0 148.6



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 8.776 min Scan# 2406
 Delta R.T. 0.000 min
 Lab File: VV039001.D
 Acq: 21 Aug 2025 22:54

Tgt Ion: 117 Resp: 1082468
 Ion Ratio Lower Upper
 117 100
 82 54.9 44.4 66.6
 119 32.5 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV039001.D

Acq: 21 Aug 2025 22:54

Instrument :

MSVOA_V

ClientSampleId :

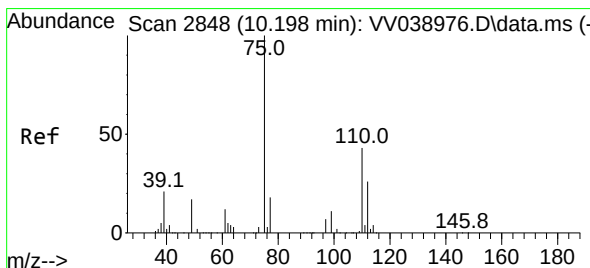
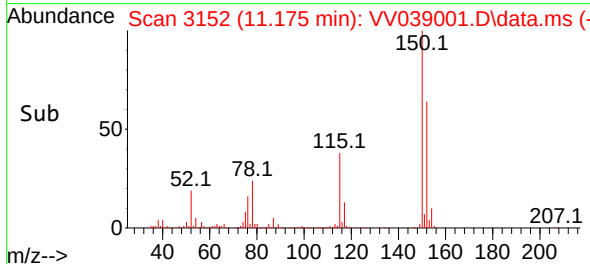
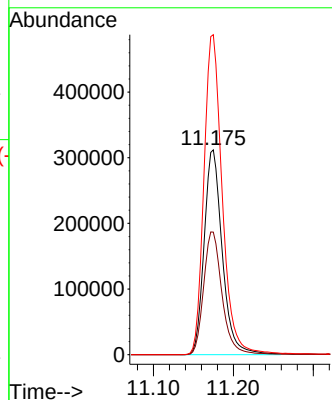
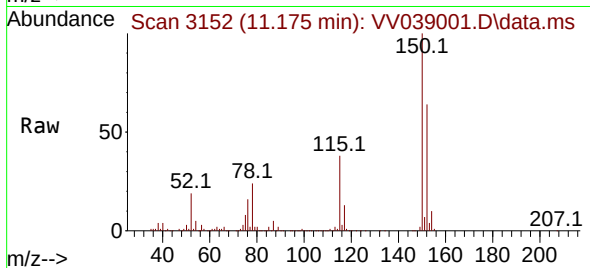
Tgt Ion:152 Resp: 493806

Ion Ratio Lower Upper

152 100

115 61.0 42.5 127.5

150 158.4 0.0 344.8



#76

1,2,3-Trichloropropane

Concen: 28.766 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV039001.D

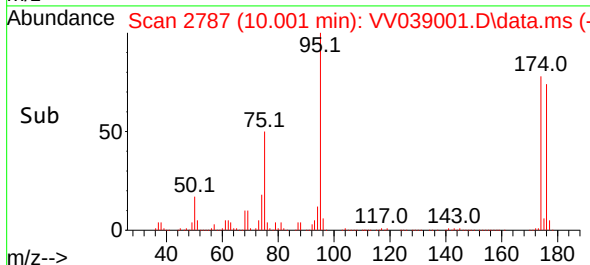
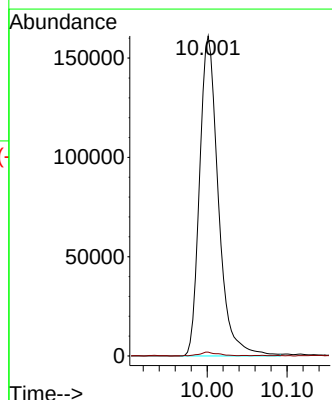
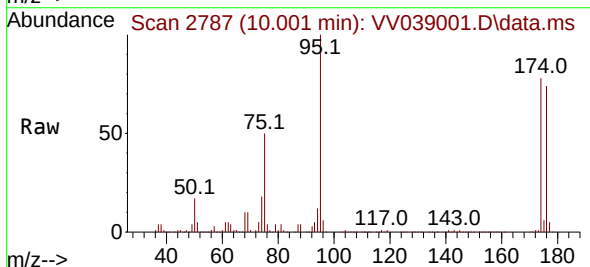
Acq: 21 Aug 2025 22:54

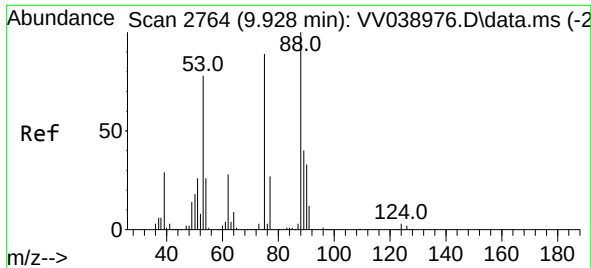
Tgt Ion: 75 Resp: 263478

Ion Ratio Lower Upper

75 100

77 1.3 11.3 33.8#

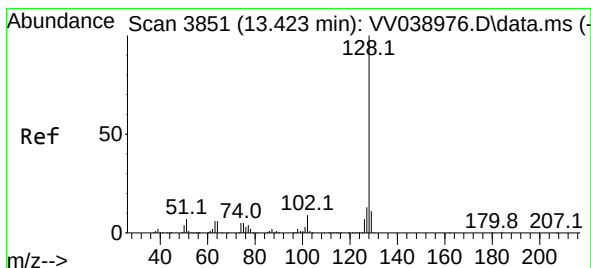
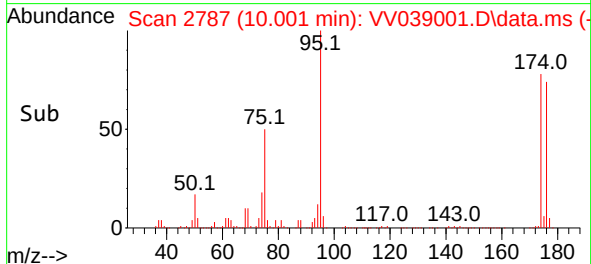
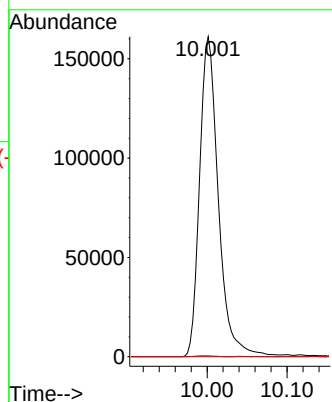
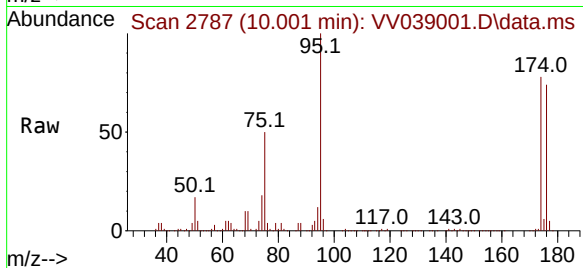




#81
trans-1,4-Dichloro-2-butene
Concen: 66.043 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 263478
Ion Ratio Lower Upper
75 100
53 0.3 70.3 105.5#
89 0.0 37.9 56.9#



#95
Naphthalene
Concen: 0.748 ug/l
RT: 13.438 min Scan# 3856
Delta R.T. 0.016 min
Lab File: VV039001.D
Acq: 21 Aug 2025 22:54

Tgt Ion:128 Resp: 22585
Ion Ratio Lower Upper
128 100
127 8.9 10.3 15.5#
129 7.8 8.5 12.7#

