

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
 Data File : VV039228.D
 Acq On : 29 Sep 2025 13:53
 Operator : SY/MD
 Sample : Q3195-19
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 30 01:25:31 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

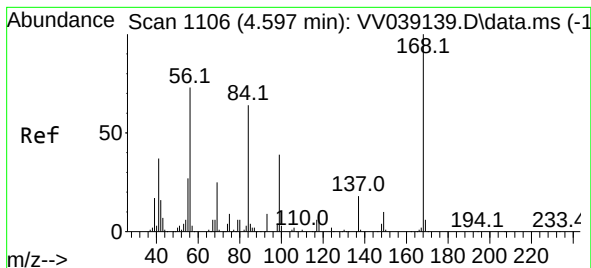
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.600	168	463190	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	796521	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	800959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	398638	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	371910	55.478	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 110.960%	
35) Dibromofluoromethane	4.503	113	347020	54.193	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 108.380%	
50) Toluene-d8	7.240	98	853418	45.378	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 90.760%	
62) 4-Bromofluorobenzene	10.001	95	347720	44.912	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 89.820%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.121	85	57633	7.860	ug/l	99
5) Bromomethane	1.510	94	1604	0.302	ug/l #	74
6) Chloroethane	1.558	64	377	Below Cal	#	44
9) 1,1,2-Trichlorotrifluo...	2.082	101	15154	2.088	ug/l	94
11) Tert butyl alcohol	2.574	59	699	0.493	ug/l #	49
12) 1,1-Dichloroethene	2.085	96	2080	0.298	ug/l #	72
13) Acrolein	2.002	56	201	0.818	ug/l #	15
16) Acetone	2.118	43	1776	Below Cal	#	77
20) Methylene Chloride	2.455	84	1985	Below Cal	#	84
27) cis-1,2-Dichloroethene	3.841	96	11015	1.343	ug/l	77
31) Cyclohexane	4.603	56	9599	0.803	ug/l #	1
36) 1,1-Dichloropropene	4.597	75	39003	4.029	ug/l #	49
38) Carbon Tetrachloride	4.600	117	48769	4.122	ug/l #	17
41) Methacrylonitrile	4.166	41	145	1.937	ug/l #	35
44) Trichloroethene	5.841	130	39693	5.456	ug/l	96
49) 1,4-Dioxane	6.326	88	63	0.538	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.815	63	222	9.662	ug/l #	47
59) 2-Hexanone	8.066	43	45	2.331	ug/l #	23
60) Dibromochloromethane	7.902	129	9719	1.041	ug/l #	10
64) Tetrachloroethene	7.905	164	9414	1.403	ug/l	96
70) Styrene	9.558	104	41	1.563	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	169586	18.684	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	169586	44.855	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.313	75	21	Below Cal	#	5

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039228.D

Acq: 29 Sep 2025 13:53

Instrument :

MSVOA_V

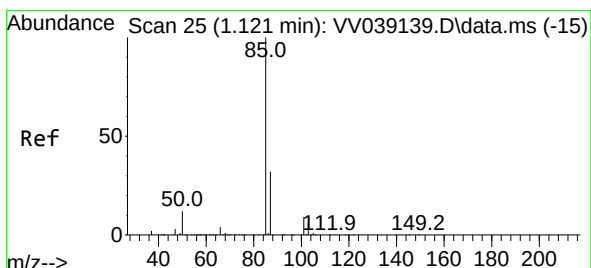
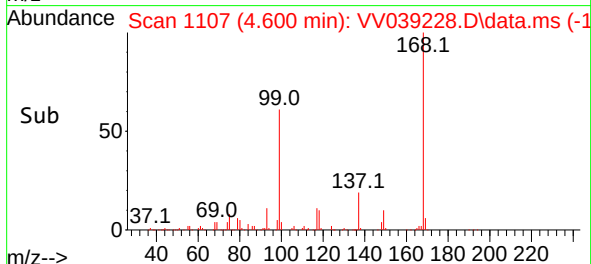
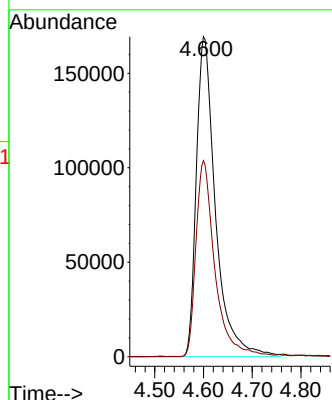
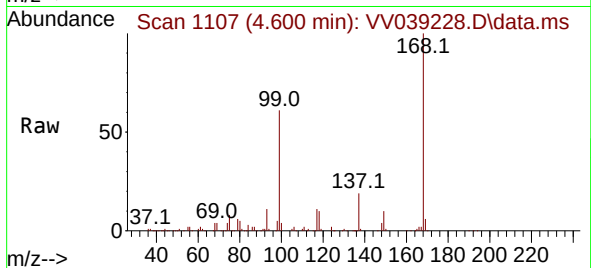
ClientSampleId :

Tgt Ion:168 Resp: 463190

Ion Ratio Lower Upper

168 100

99 61.2 49.6 74.4



#2

Dichlorodifluoromethane

Concen: 7.860 ug/l

RT: 1.121 min Scan# 25

Delta R.T. 0.000 min

Lab File: VV039228.D

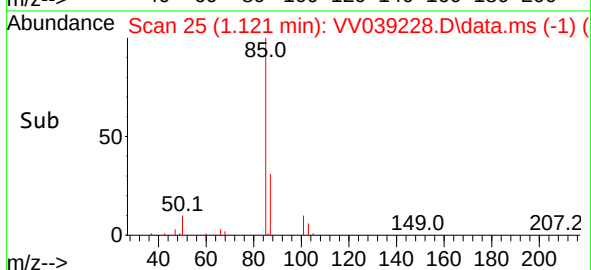
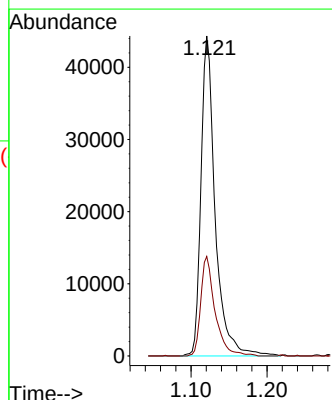
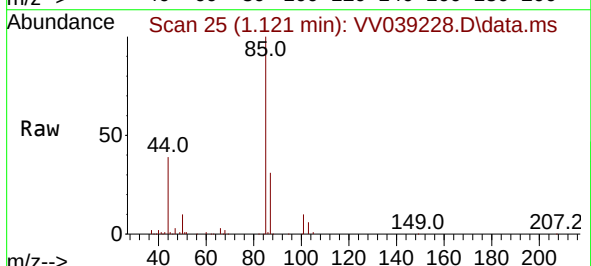
Acq: 29 Sep 2025 13:53

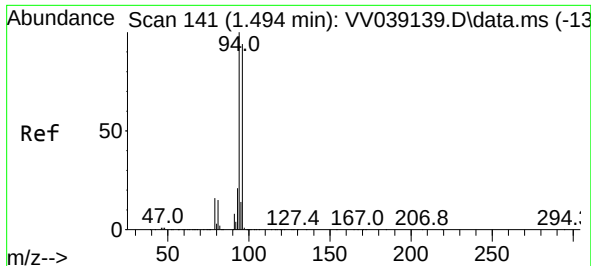
Tgt Ion: 85 Resp: 57633

Ion Ratio Lower Upper

85 100

87 31.1 16.0 47.9

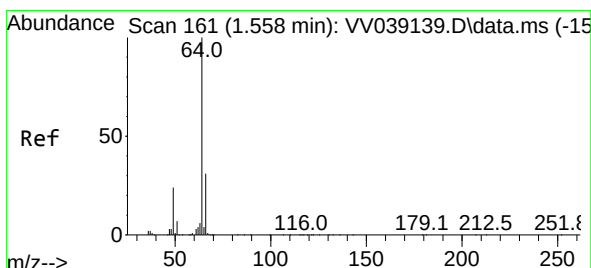
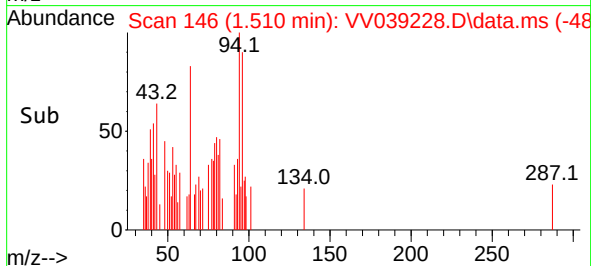
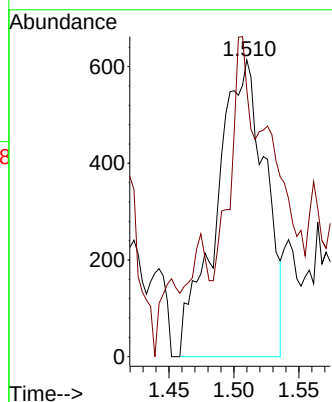
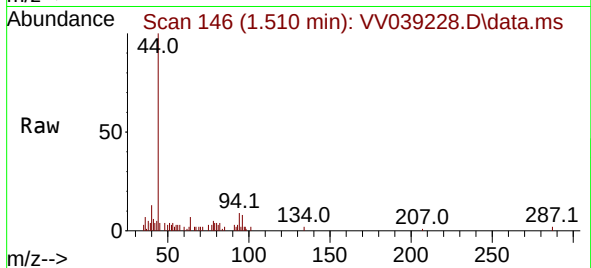




#5
Bromomethane
Concen: 0.302 ug/l
RT: 1.510 min Scan# 141
Delta R.T. 0.016 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

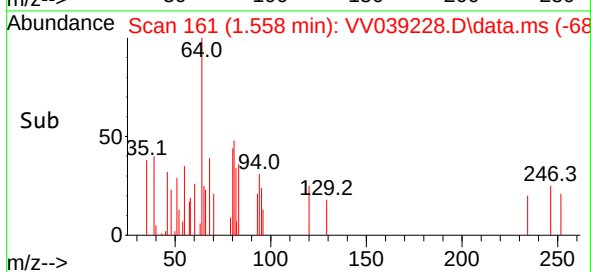
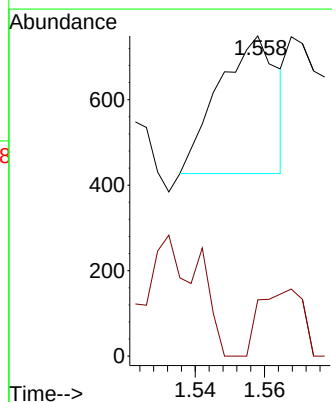
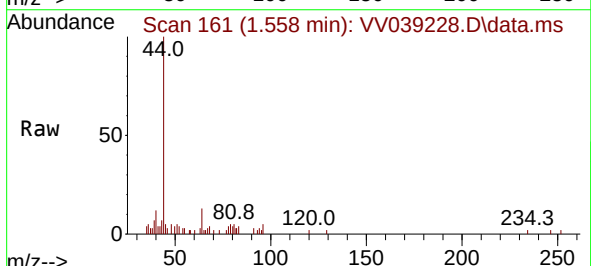
Instrument :
MSVOA_V
ClientSampleId :

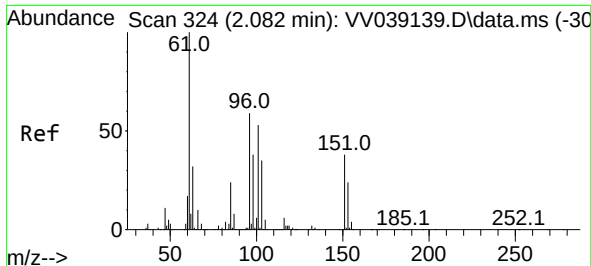
Tgt Ion: 94 Resp: 1604
Ion Ratio Lower Upper
94 100
96 68.7 74.9 112.3#



#6
Chloroethane
Concen: Below Cal
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 64 Resp: 377
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

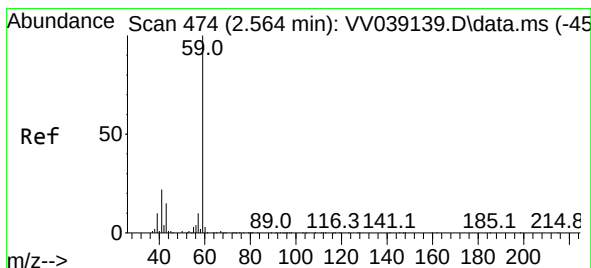
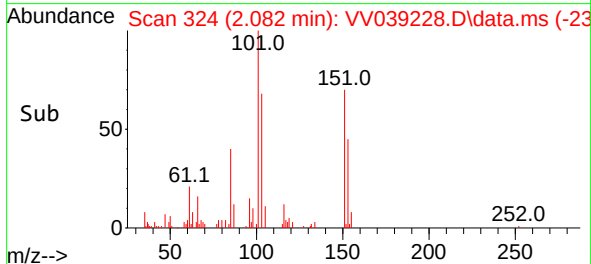
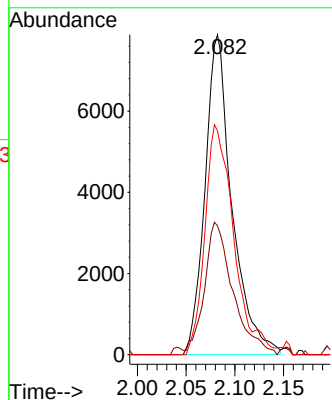
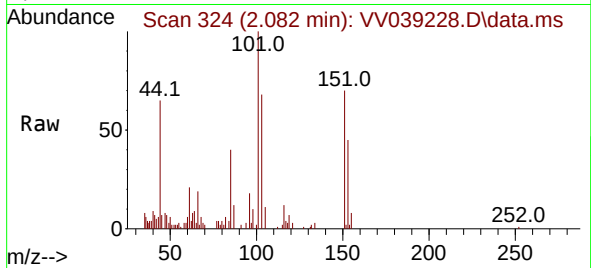




#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.088 ug/l
RT: 2.082 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

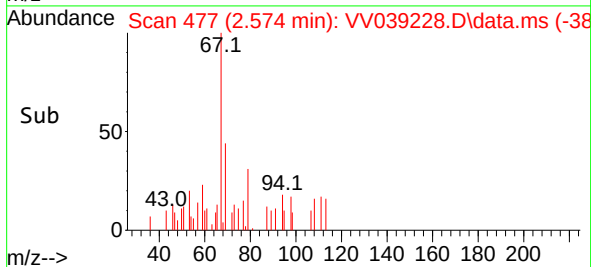
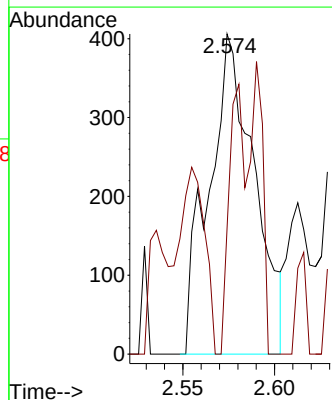
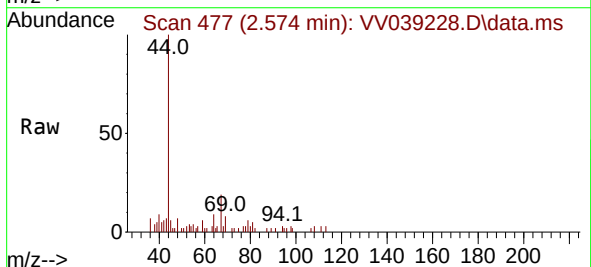
Instrument :
MSVOA_V
ClientSampleId :

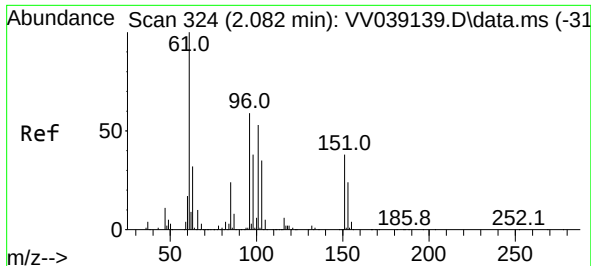
Tgt Ion:101 Resp: 15154
Ion Ratio Lower Upper
101 100
85 43.7 36.2 54.2
151 77.1 56.3 84.5



#11
Tert butyl alcohol
Concen: 0.493 ug/l
RT: 2.574 min Scan# 477
Delta R.T. 0.010 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 59 Resp: 699
Ion Ratio Lower Upper
59 100
57 28.5 7.8 11.8#

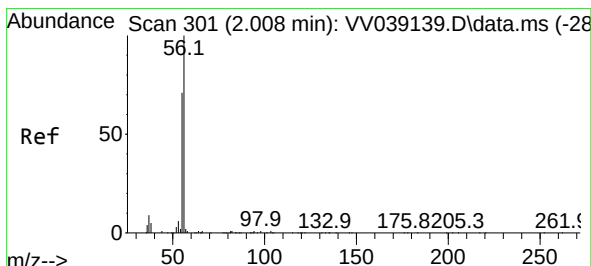
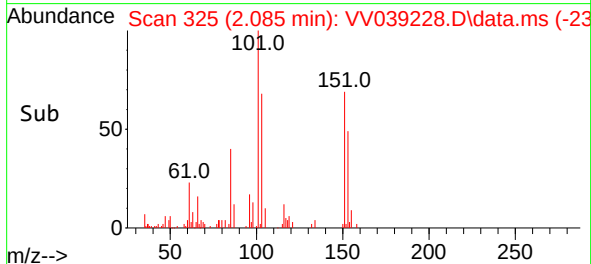
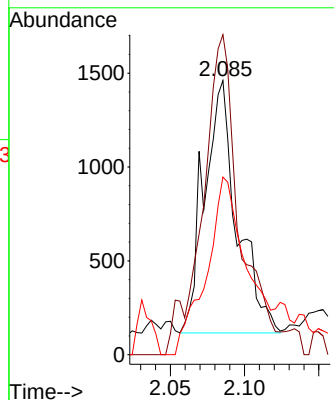
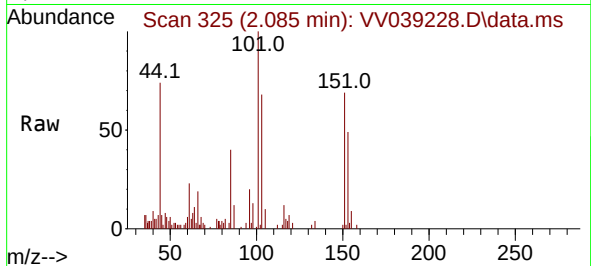




#12
1,1-Dichloroethene
Concen: 0.298 ug/l
RT: 2.085 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

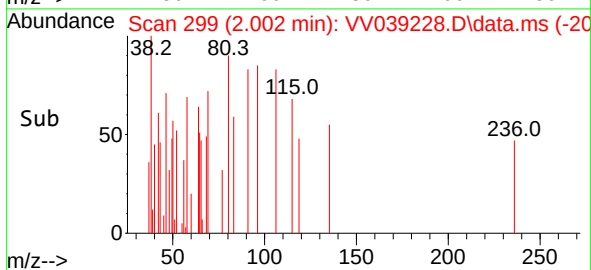
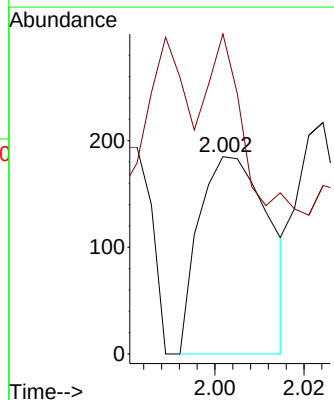
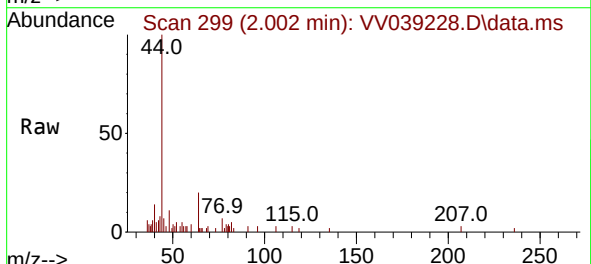
Instrument :
MSVOA_V
ClientSampleId :

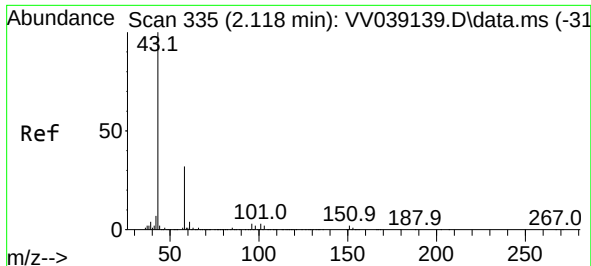
Tgt Ion: 96 Resp: 2080
Ion Ratio Lower Upper
96 100
61 117.9 136.0 204.0#
98 62.0 51.0 76.6



#13
Acrolein
Concen: 0.818 ug/l
RT: 2.002 min Scan# 299
Delta R.T. -0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 56 Resp: 201
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

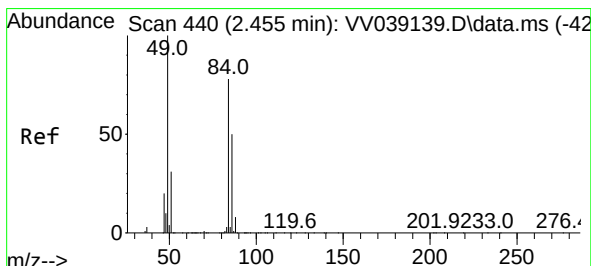
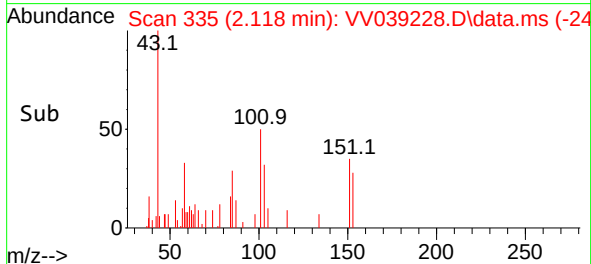
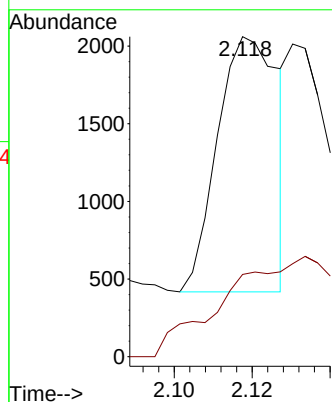
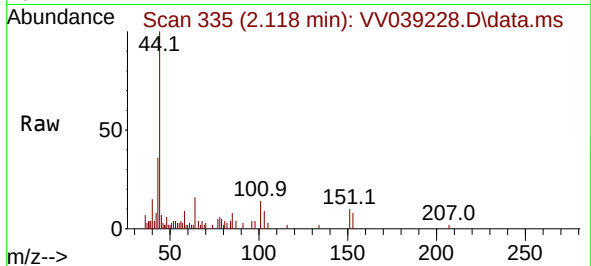




#16
Acetone
Concen: Below Cal
RT: 2.118 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

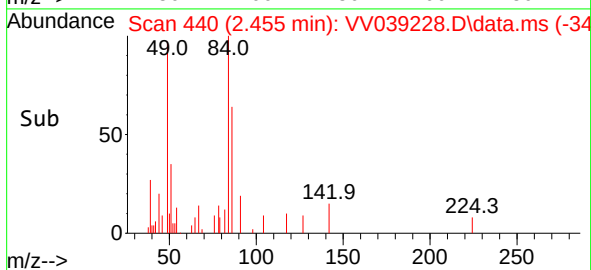
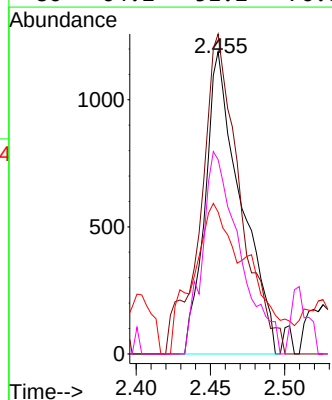
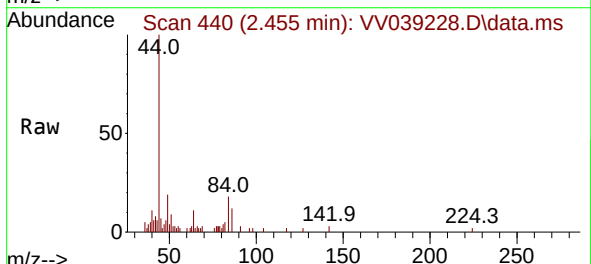
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ClientSampleId :

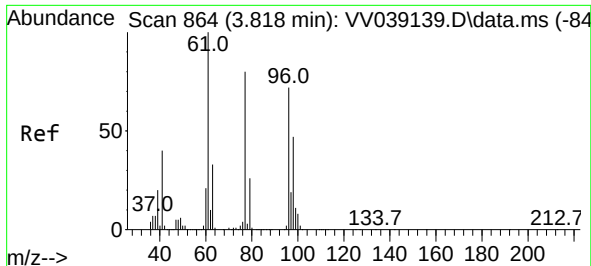
Tgt Ion: 43 Resp: 1776
Ion Ratio Lower Upper
43 100
58 19.4 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 84 Resp: 1985
Ion Ratio Lower Upper
84 100
49 97.3 102.8 154.2#
51 35.8 31.9 47.9
86 64.2 51.2 76.8





#27

cis-1,2-Dichloroethene

Concen: 1.343 ug/l

RT: 3.841 min Scan# 81

Delta R.T. 0.023 min

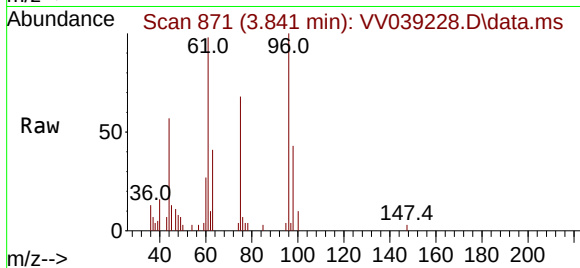
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Acq: 29 Sep 2025 13:53

Instrument :

MSVOA_V

ClientSampleId :



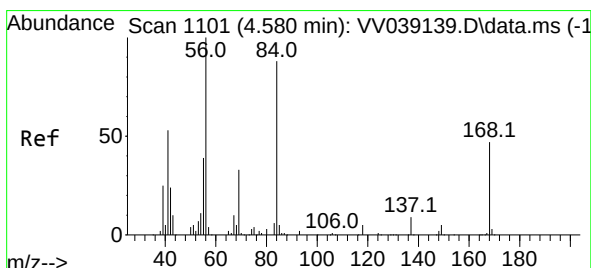
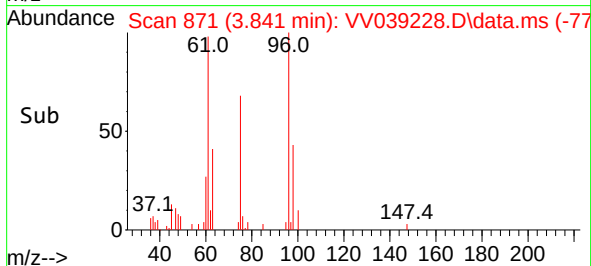
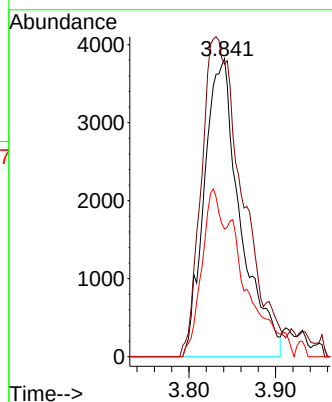
Tgt Ion: 96 Resp: 11015

Ion Ratio Lower Upper

96 100

61 123.6 0.0 286.4

98 32.6 0.0 126.6



#31

Cyclohexane

Concen: 0.803 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. 0.023 min

Lab File: VV039228.D

Acq: 29 Sep 2025 13:53

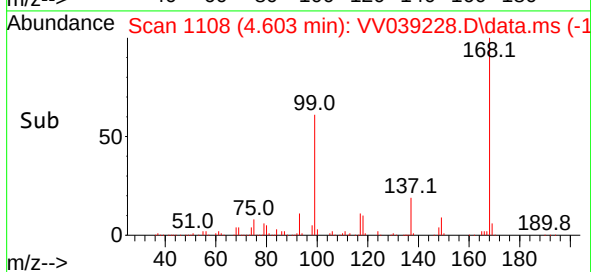
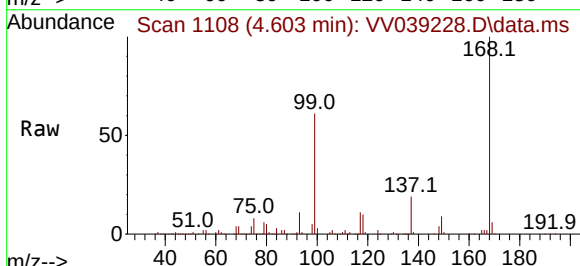
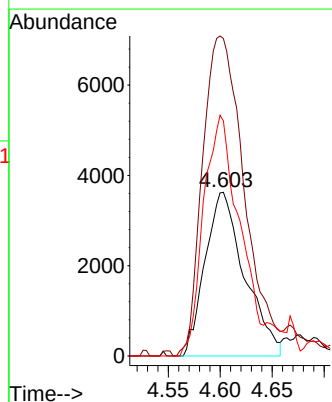
Tgt Ion: 56 Resp: 9599

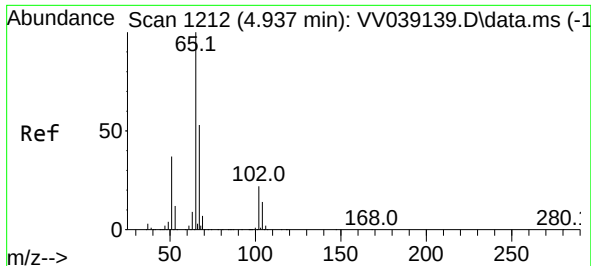
Ion Ratio Lower Upper

56 100

69 190.6 26.2 39.2#

84 143.6 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 55.478 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039228.D

Acq: 29 Sep 2025 13:53

Instrument :

MSVOA_V

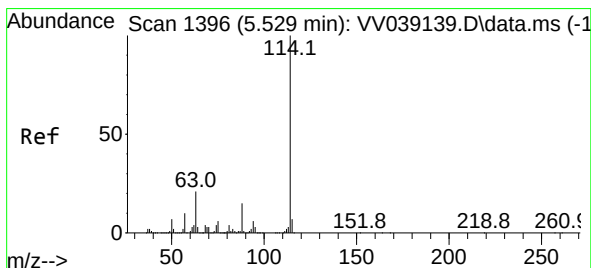
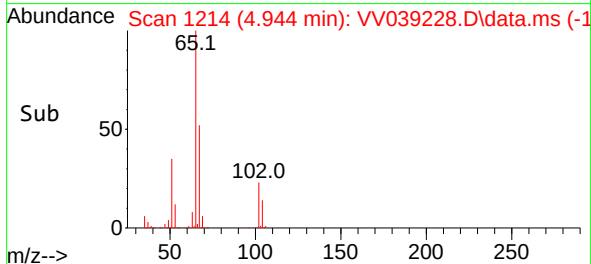
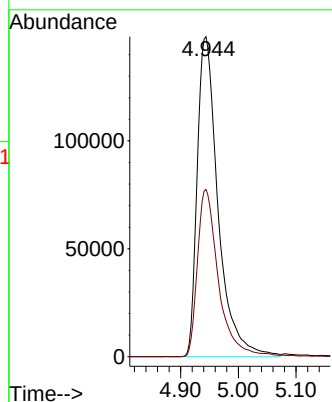
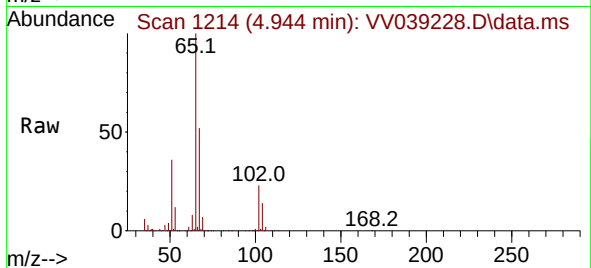
ClientSampleId :

Tgt Ion: 65 Resp: 371910

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039228.D

Acq: 29 Sep 2025 13:53

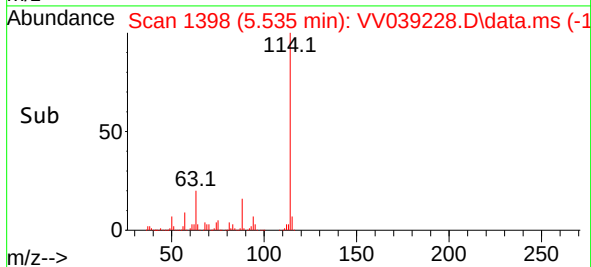
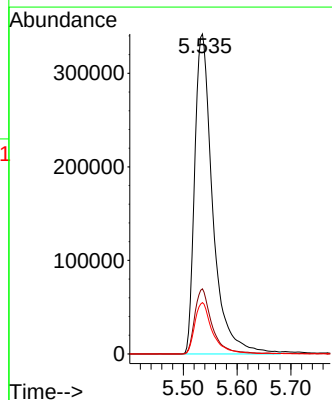
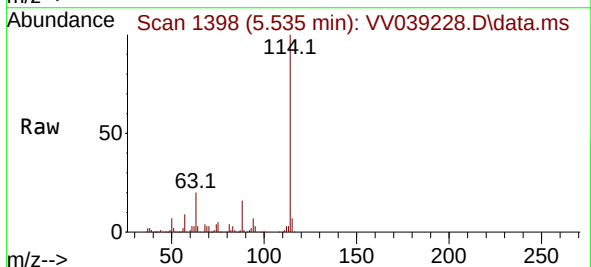
Tgt Ion: 114 Resp: 796521

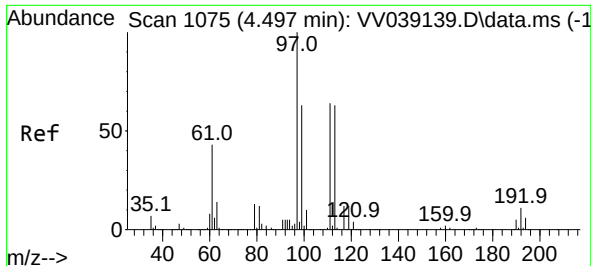
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 16.1 0.0 30.8

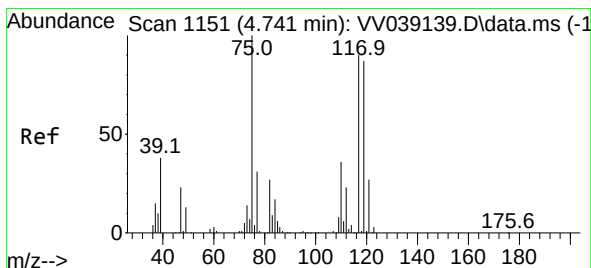
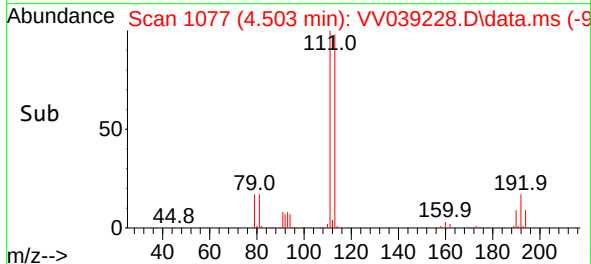
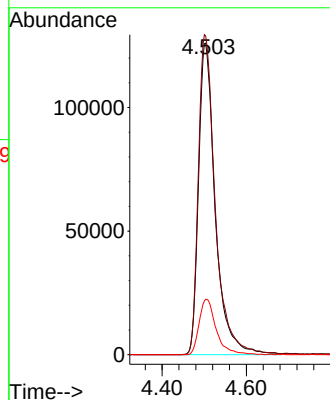
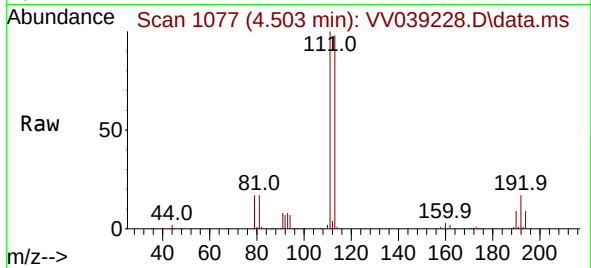




#35
Dibromofluoromethane
Concen: 54.193 ug/l
RT: 4.503 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

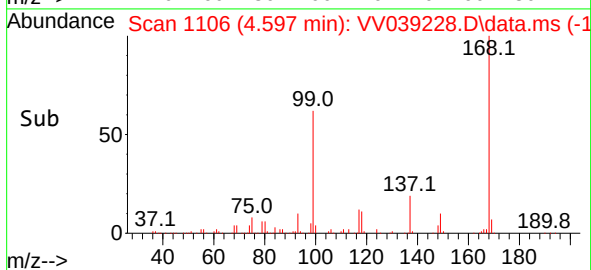
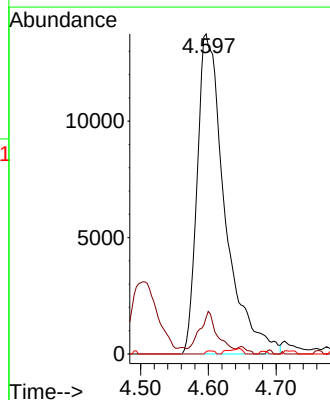
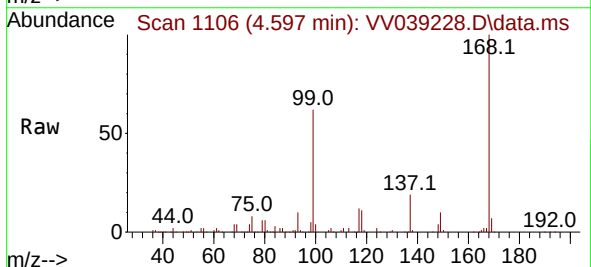
Instrument :
MSVOA_V
ClientSampleId :

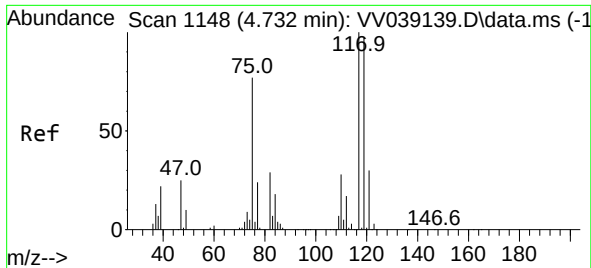
Tgt Ion:113 Resp: 347020
Ion Ratio Lower Upper
113 100
111 104.0 82.4 123.6
192 18.2 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.029 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.144 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

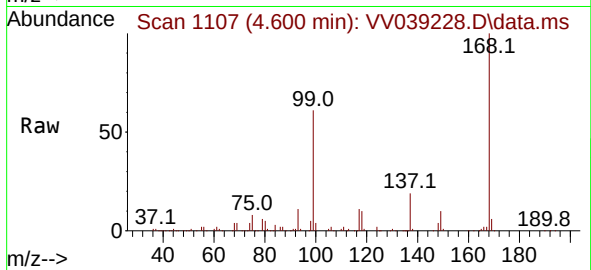
Tgt Ion: 75 Resp: 39003
Ion Ratio Lower Upper
75 100
110 8.8 18.1 54.1#
77 0.3 24.8 37.2#



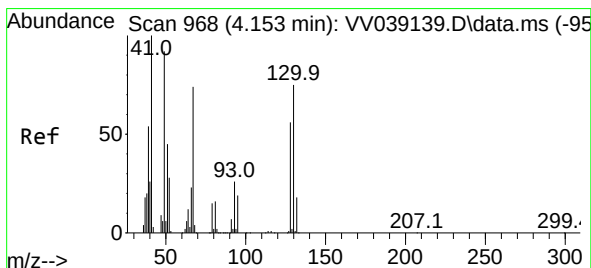
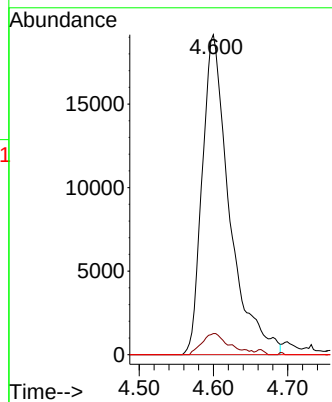
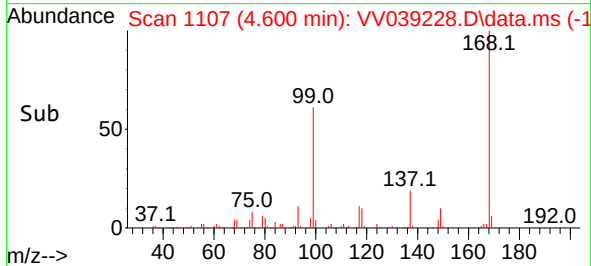


#38
Carbon Tetrachloride
Concen: 4.122 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :

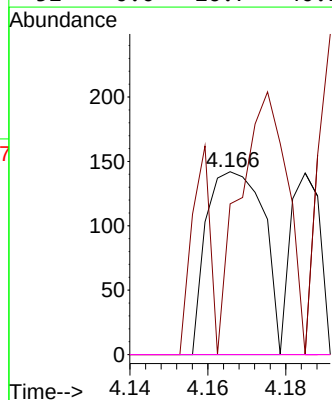
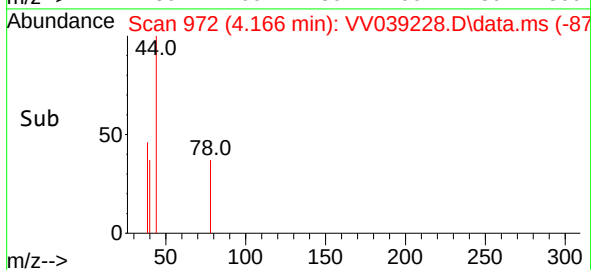
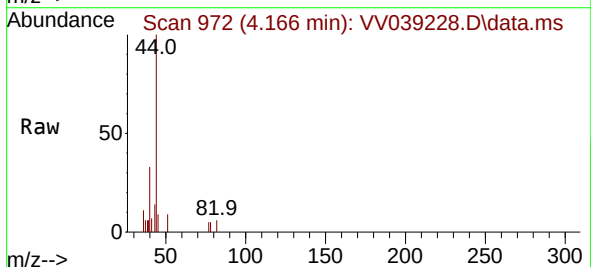


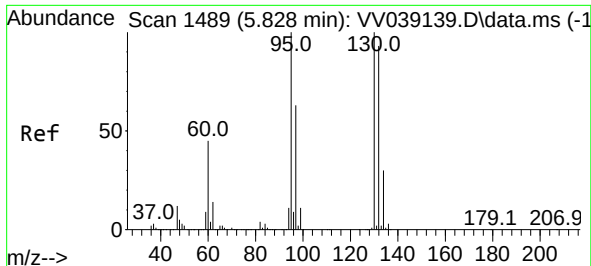
Tgt Ion:117 Resp: 48769
Ion Ratio Lower Upper
117 100
119 6.6 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.937 ug/l
RT: 4.166 min Scan# 972
Delta R.T. 0.013 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 41 Resp: 145
Ion Ratio Lower Upper
41 100
39 35.9 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#

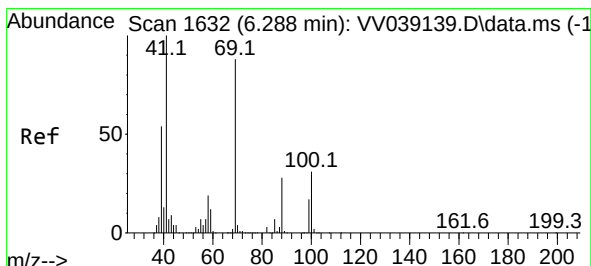
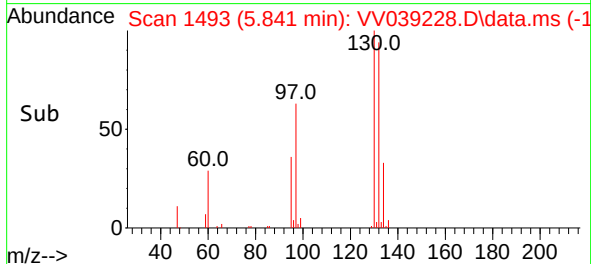
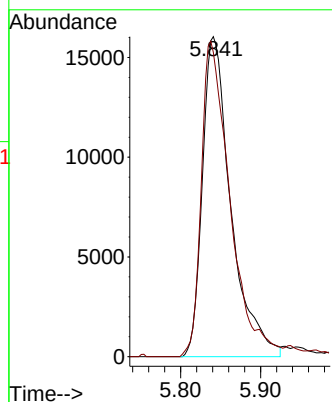
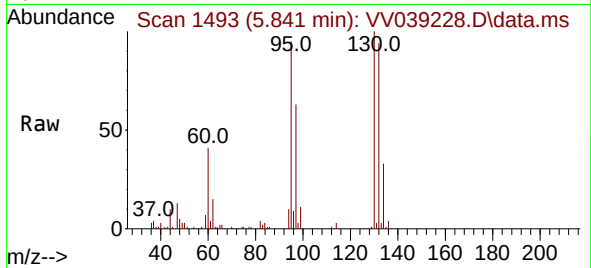




#44
Trichloroethene
Concen: 5.456 ug/l
RT: 5.841 min Scan# 1489
Delta R.T. 0.013 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

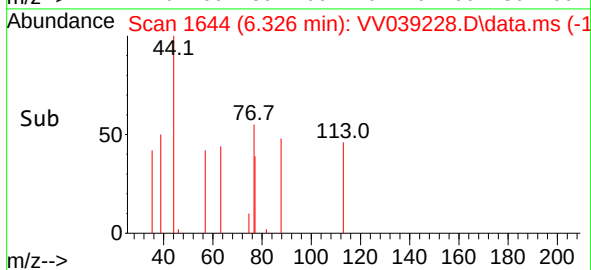
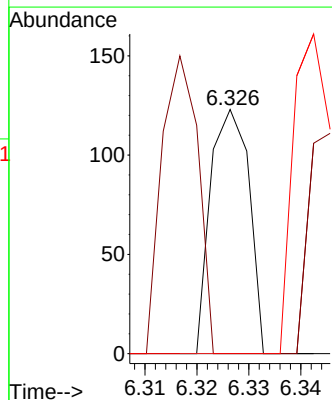
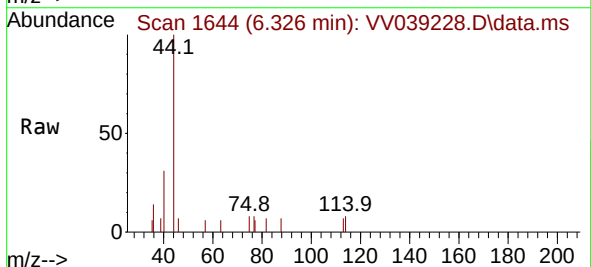
Instrument :
MSVOA_V
ClientSampleId :

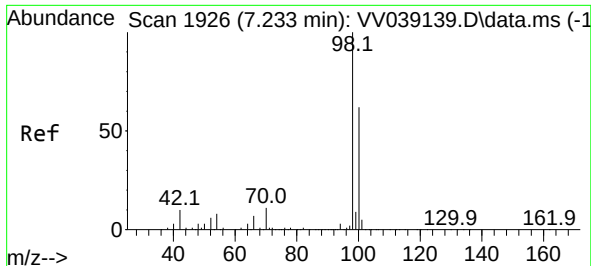
Tgt Ion:130 Resp: 39693
Ion Ratio Lower Upper
130 100
95 95.1 0.0 199.2



#49
1,4-Dioxane
Concen: 0.538 ug/l
RT: 6.326 min Scan# 1644
Delta R.T. 0.039 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 115.9 25.1 37.7#
58 0.0 53.6 80.4#

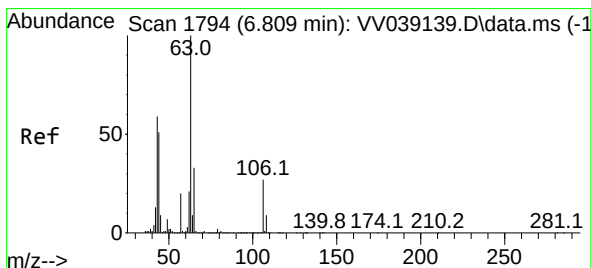
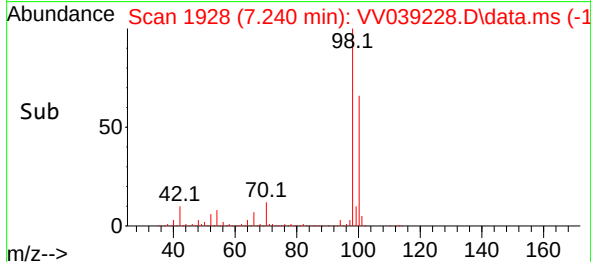
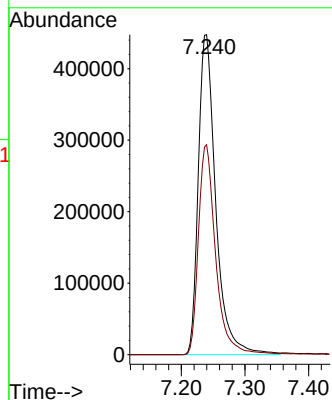
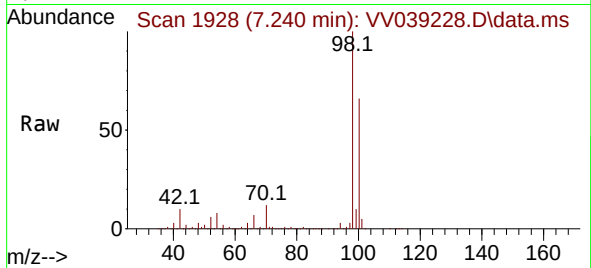




#50
Toluene-d8
Concen: 45.378 ug/l
RT: 7.240 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

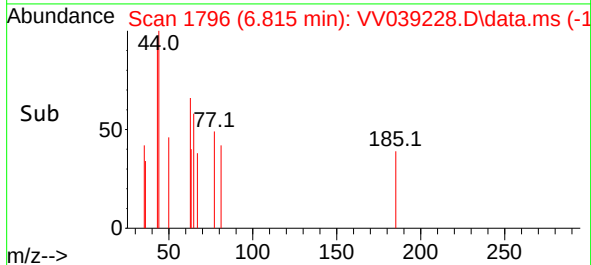
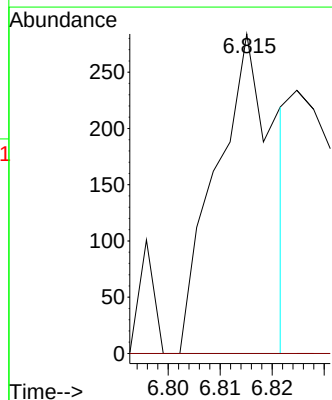
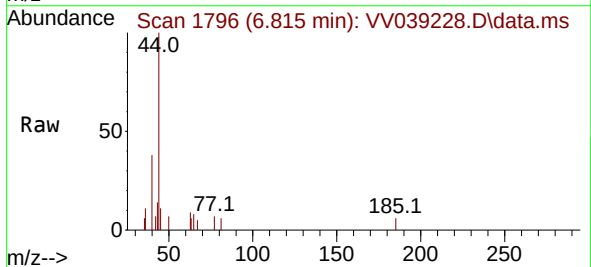
Instrument :
MSVOA_V
ClientSampleId :

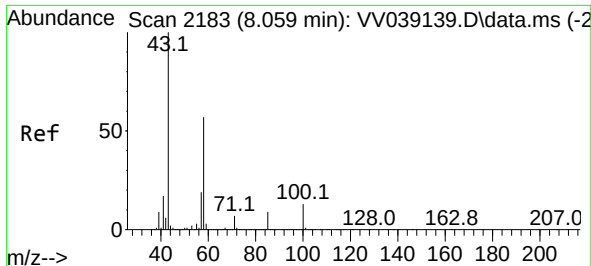
Tgt Ion: 98 Resp: 853418
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.662 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 63 Resp: 222
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#

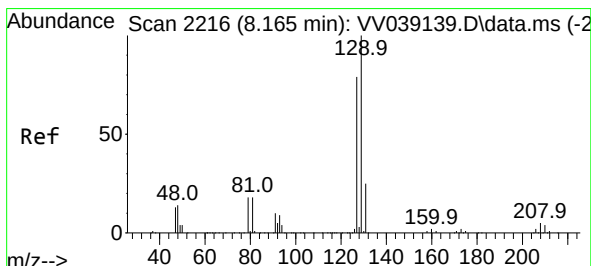
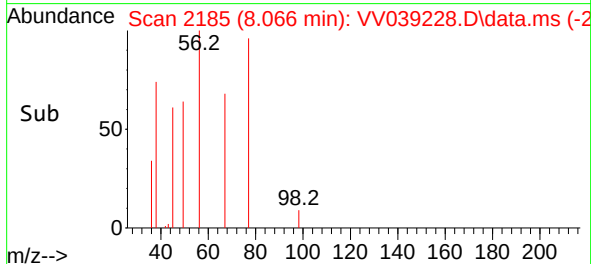
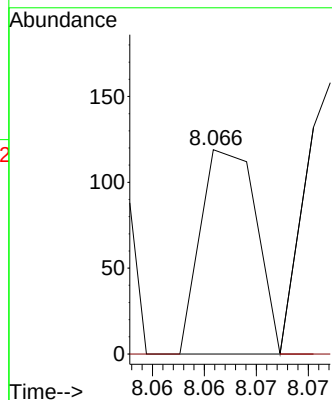
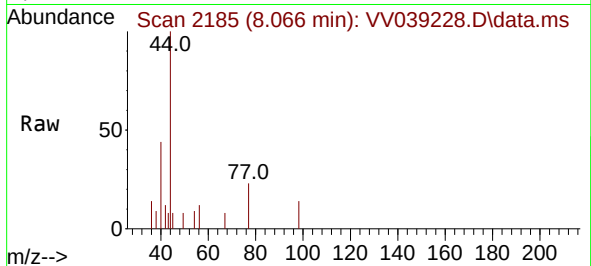




#59
2-Hexanone
Concen: 2.331 ug/l
RT: 8.066 min Scan# 2185
Delta R.T. 0.007 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

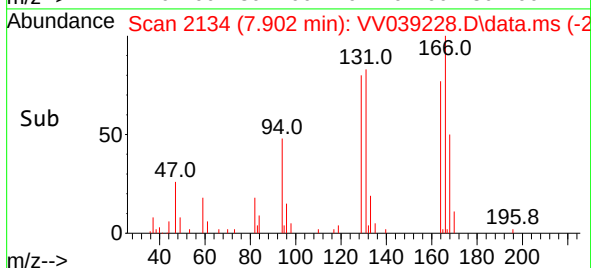
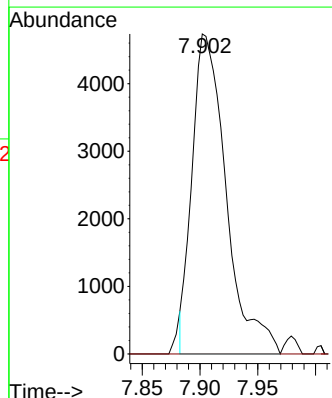
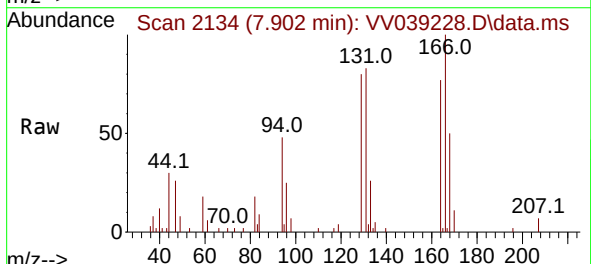
Instrument :
MSVOA_V
ClientSampleId :

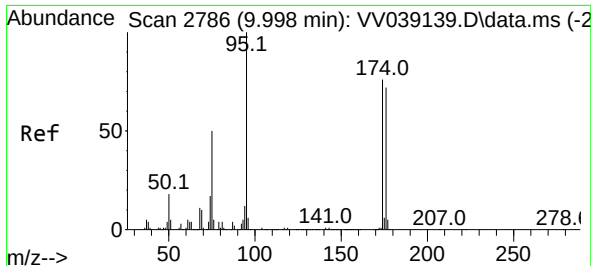
Tgt Ion: 43 Resp: 45
Ion Ratio Lower Upper
43 100
58 0.0 28.3 85.0#



#60
Dibromochloromethane
Concen: 1.041 ug/l
RT: 7.902 min Scan# 2134
Delta R.T. -0.264 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 129 Resp: 9719
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.9#





#62

4-Bromofluorobenzene

Concen: 44.912 ug/l

RT: 10.001 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039228.D

Acq: 29 Sep 2025 13:53

Instrument :

MSVOA_V

ClientSampleId :

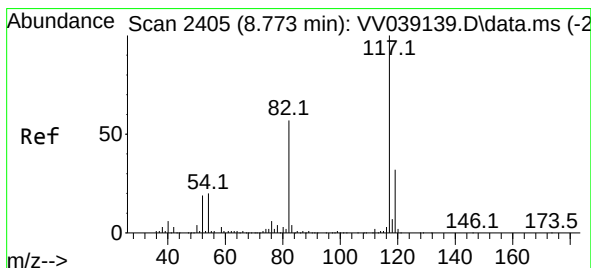
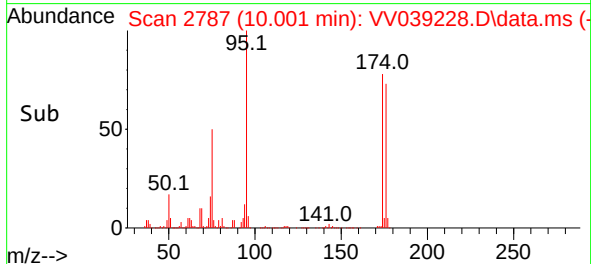
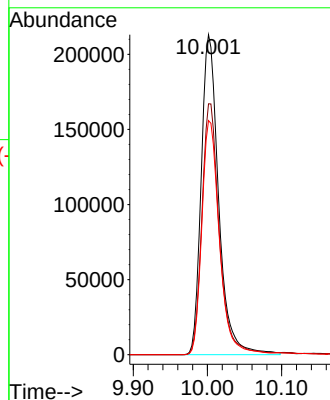
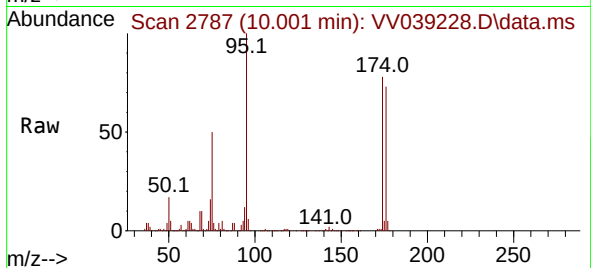
Tgt Ion: 95 Resp: 347720

Ion Ratio Lower Upper

95 100

174 79.0 0.0 150.4

176 73.9 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: VV039228.D

Acq: 29 Sep 2025 13:53

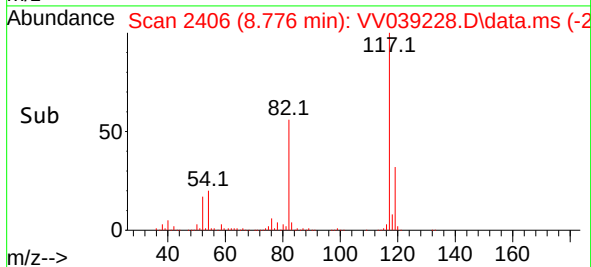
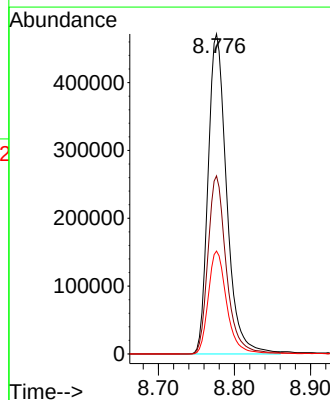
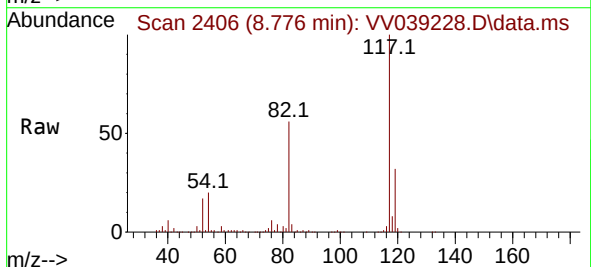
Tgt Ion: 117 Resp: 800959

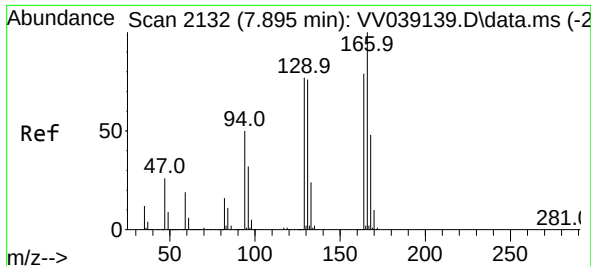
Ion Ratio Lower Upper

117 100

82 55.6 45.4 68.2

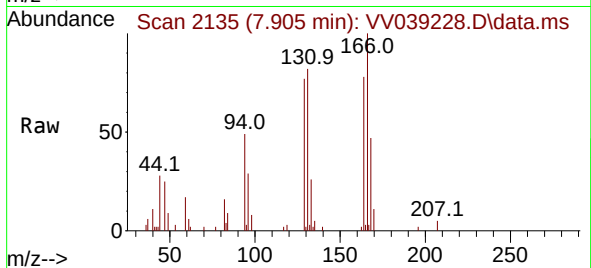
119 32.2 25.6 38.4



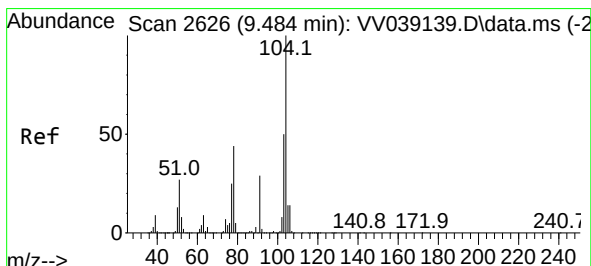
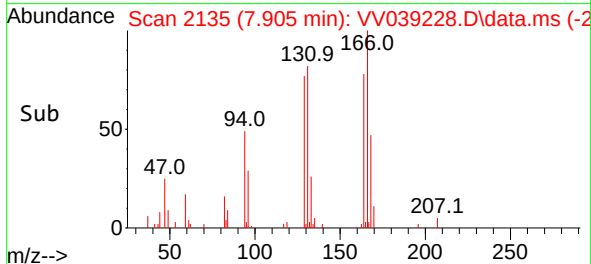
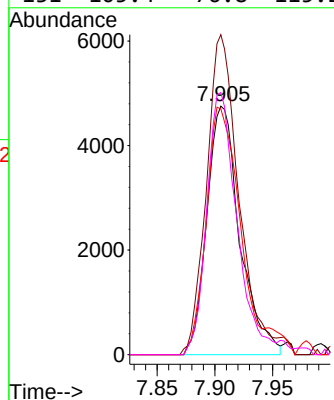


#64
Tetrachloroethene
Concen: 1.403 ug/l
RT: 7.905 min Scan# 2132
Delta R.T. 0.010 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :

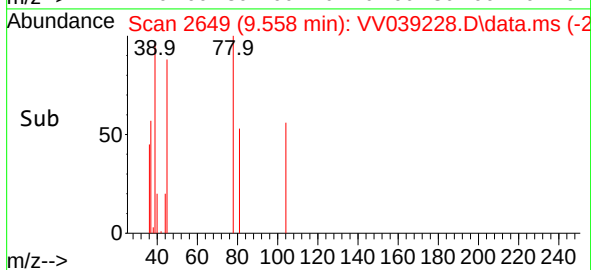
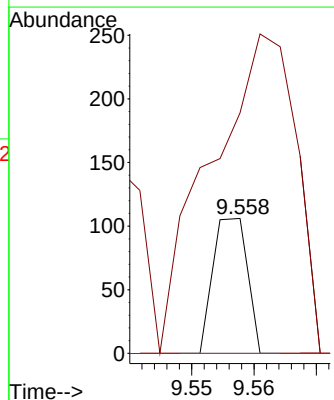
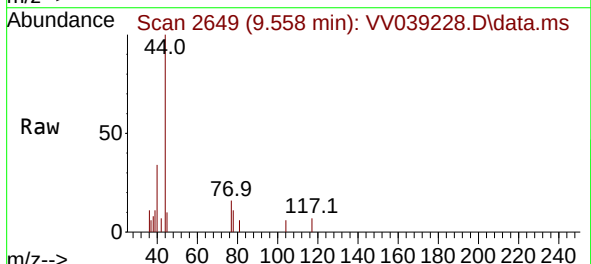


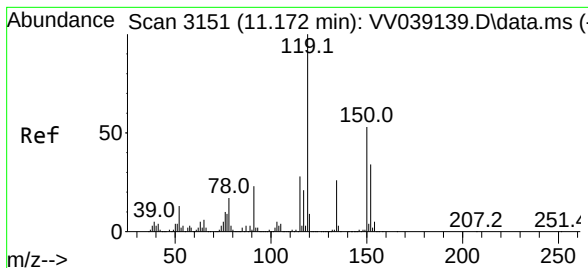
Tgt Ion:	164	Resp:	9414
Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.6	152.4
129	98.9	78.5	117.7
131	105.4	76.8	115.2



#70
Styrene
Concen: 1.563 ug/l
RT: 9.558 min Scan# 2649
Delta R.T. 0.074 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion:	104	Resp:	41
Ion	Ratio	Lower	Upper
104	100		
78	585.4	39.8	59.6#
103	0.0	43.4	65.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039228.D

Acq: 29 Sep 2025 13:53

Instrument :

MSVOA_V

ClientSampleId :

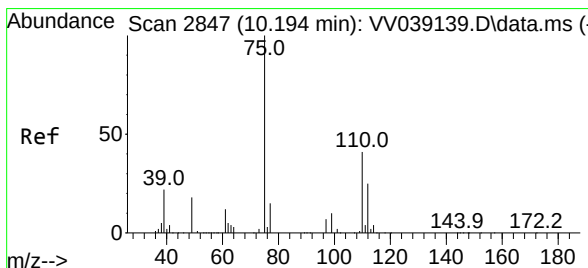
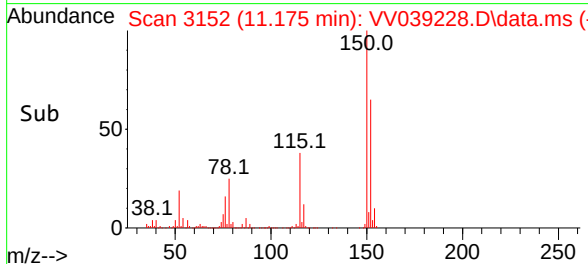
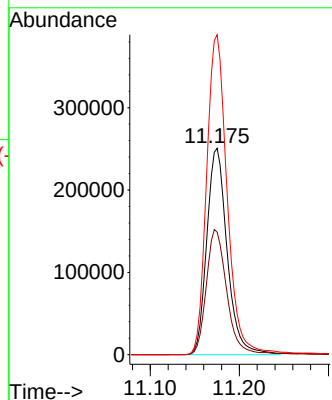
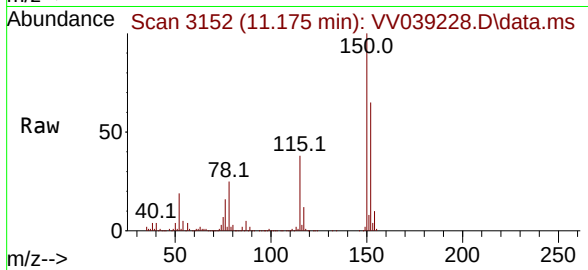
Tgt Ion:152 Resp: 398638

Ion Ratio Lower Upper

152 100

115 61.2 44.8 134.4

150 155.8 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 18.684 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039228.D

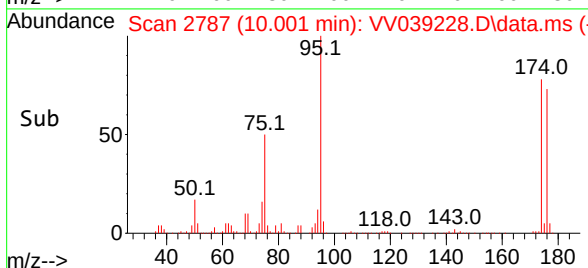
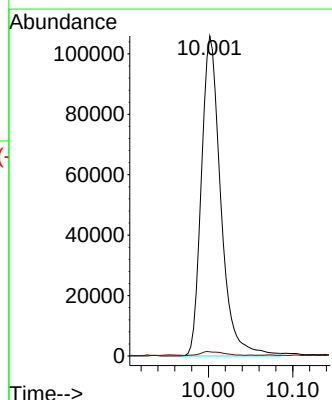
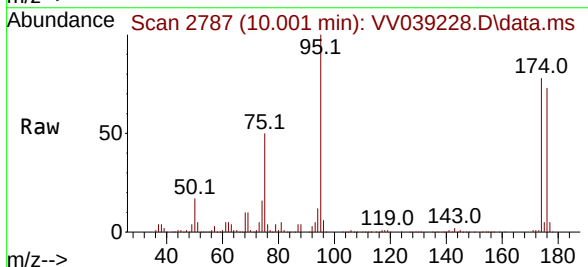
Acq: 29 Sep 2025 13:53

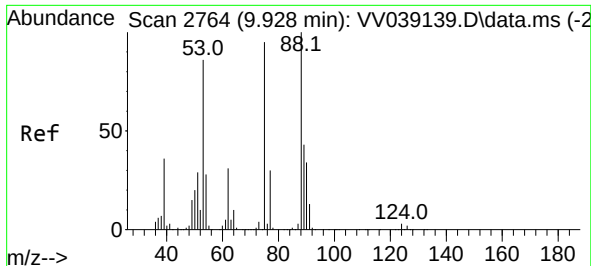
Tgt Ion: 75 Resp: 169586

Ion Ratio Lower Upper

75 100

77 1.5 11.3 33.8#

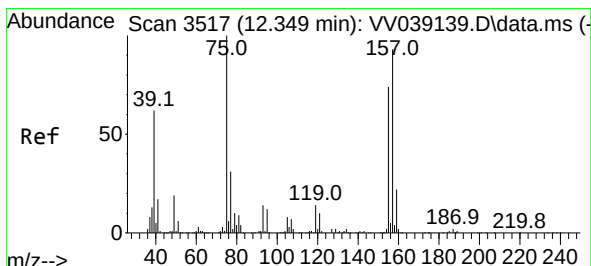
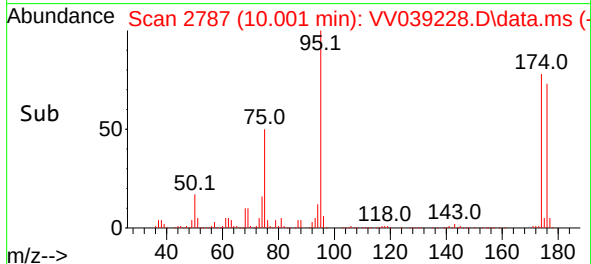
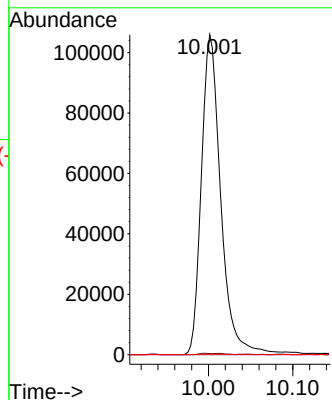
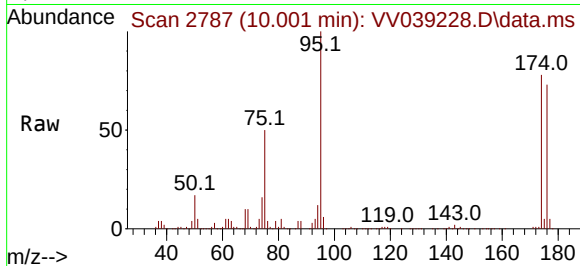




#81
trans-1,4-Dichloro-2-butene
Concen: 44.855 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 169586
Ion Ratio Lower Upper
75 100
53 0.3 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.313 min Scan# 3506
Delta R.T. -0.036 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 75 Resp: 21
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

