

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039195.D
 Acq On : 25 Sep 2025 20:25
 Operator : SY/MD
 Sample : Q3195-11
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:39:16 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)

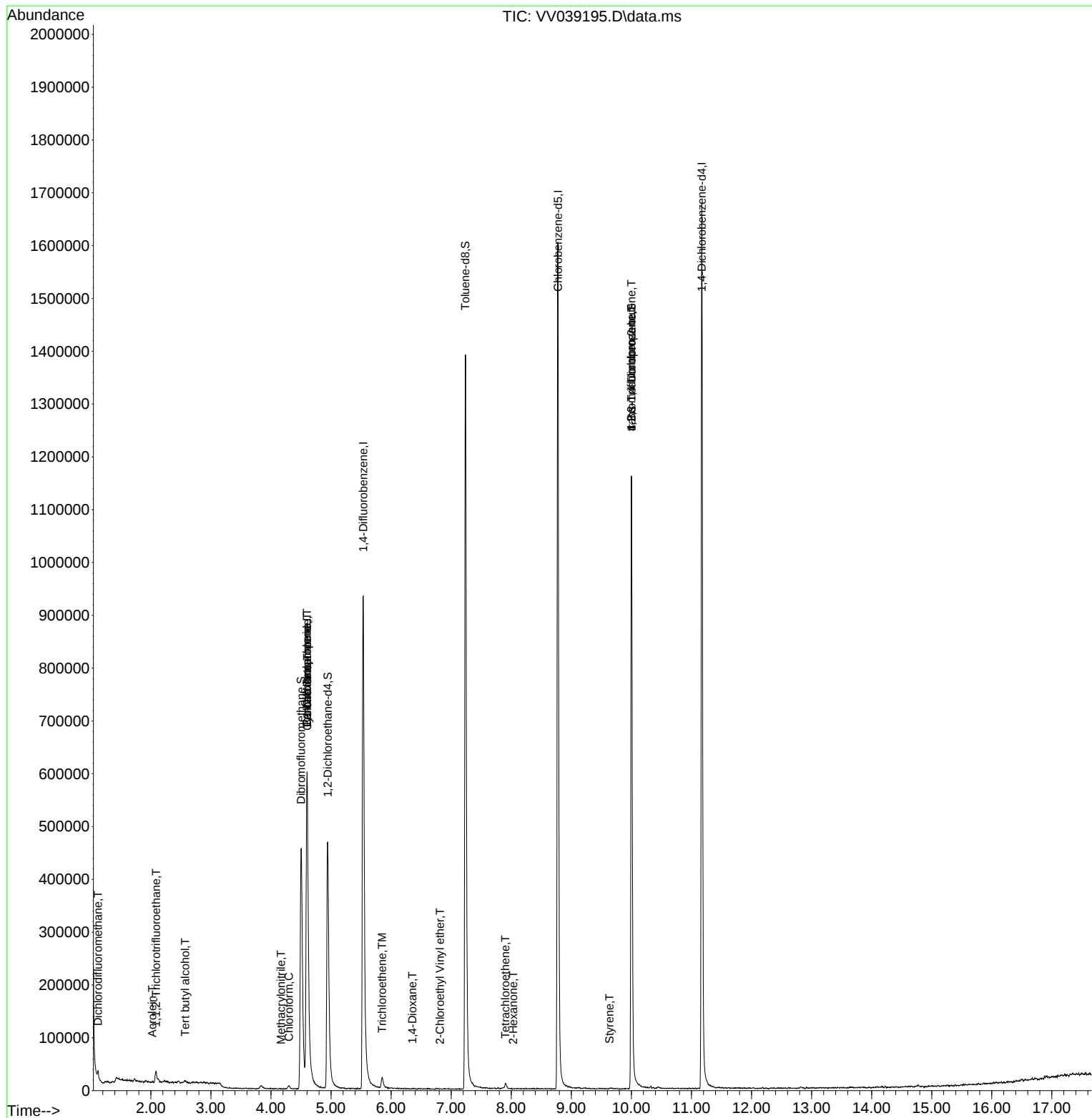
Internal Standards						
1) Pentafluorobenzene	4.600	168	515327	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	928629	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	925762	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	442595	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	414441	55.568	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 111.140%			
35) Dibromofluoromethane	4.503	113	384300	51.477	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 102.960%			
50) Toluene-d8	7.236	98	1012096	46.160	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.320%			
62) 4-Bromofluorobenzene	10.002	95	401201	44.448	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 88.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	9372	1.149	ug/l	99
6) Chloroethane	1.619	64	1166	Below Cal	#	51
9) 1,1,2-Trichlorotrifluo...	2.089	101	8698	1.077	ug/l	99
11) Tert butyl alcohol	2.571	59	382	0.242	ug/l	96
13) Acrolein	2.024	56	79	0.289	ug/l	# 1
16) Acetone	2.130	43	3860	Below Cal	#	74
20) Methylene Chloride	2.462	84	2336	Below Cal	#	85
30) Chloroform	4.298	83	5926	0.349	ug/l	# 83
31) Cyclohexane	4.603	56	11510	0.865	ug/l	# 1
36) 1,1-Dichloropropene	4.600	75	41999	3.721	ug/l	# 50
38) Carbon Tetrachloride	4.600	117	55217	4.003	ug/l	# 17
41) Methacrylonitrile	4.169	41	69	1.921	ug/l	# 50
44) Trichloroethene	5.851	130	8633	1.018	ug/l	92
49) 1,4-Dioxane	6.352	88	177	1.296	ug/l	# 40
58) 2-Chloroethyl Vinyl ether	6.815	63	130	9.642	ug/l	# 47
59) 2-Hexanone	8.034	43	130	2.339	ug/l	66
64) Tetrachloroethene	7.902	164	2650	0.342	ug/l	# 79
70) Styrene	9.638	104	110	1.565	ug/l	# 8
76) 1,2,3-Trichloropropane	10.002	75	194351	19.286	ug/l	# 57
81) trans-1,4-Dichloro-2-b...	10.002	75	194351	46.300	ug/l	# 13
92) 1,2-Dibromo-3-Chloropr...	12.342	75	19	Below Cal	#	5

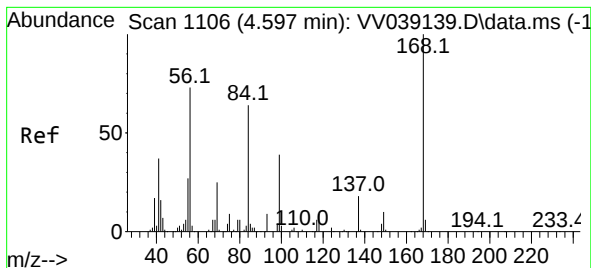
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039195.D

Acq: 25 Sep 2025 20:25

Instrument :

MSVOA_V

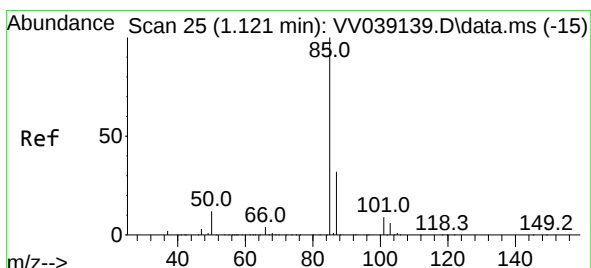
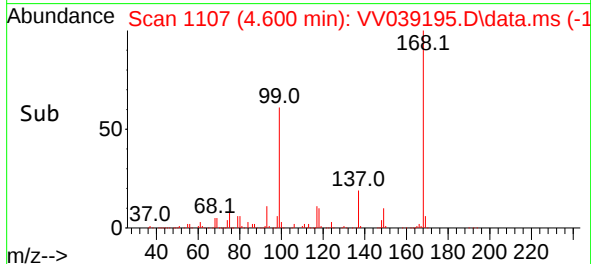
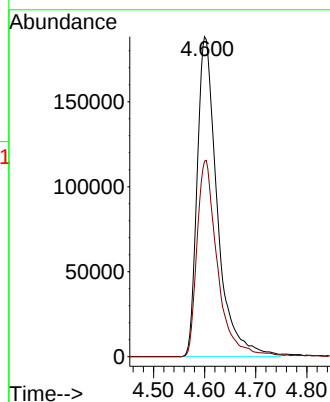
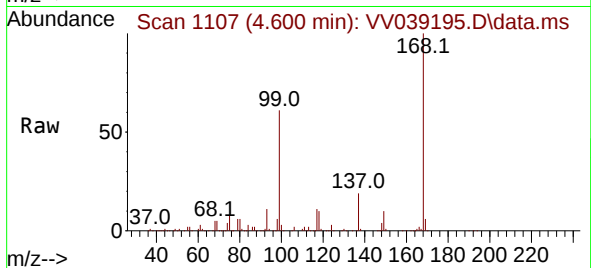
ClientSampleId :

Tgt Ion:168 Resp: 515327

Ion Ratio Lower Upper

168 100

99 61.1 49.6 74.4



#2

Dichlorodifluoromethane

Concen: 1.149 ug/l

RT: 1.121 min Scan# 25

Delta R.T. 0.000 min

Lab File: VV039195.D

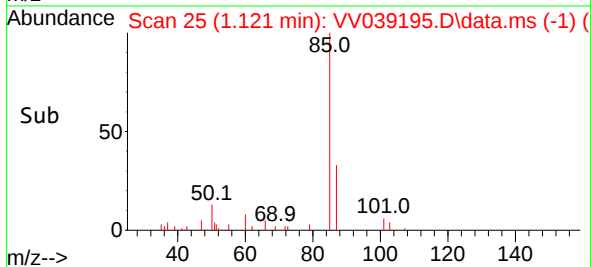
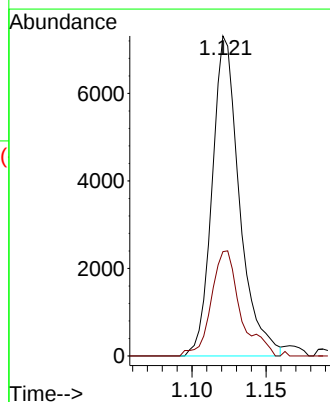
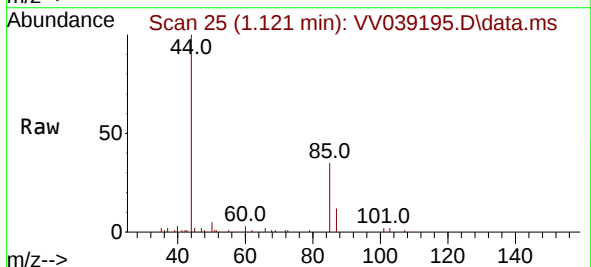
Acq: 25 Sep 2025 20:25

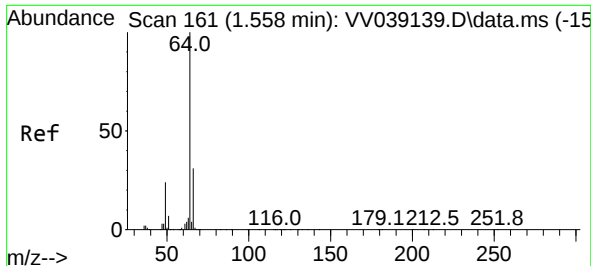
Tgt Ion: 85 Resp: 9372

Ion Ratio Lower Upper

85 100

87 32.6 16.0 47.9

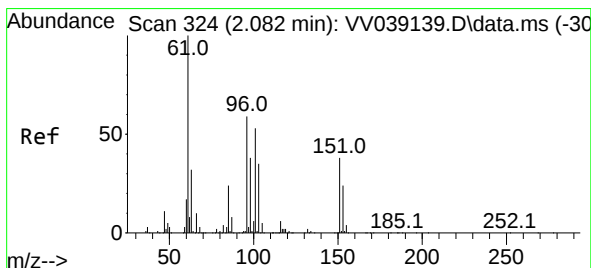
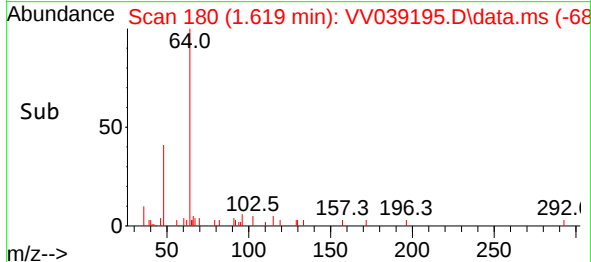
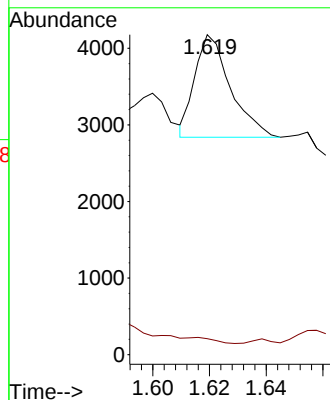
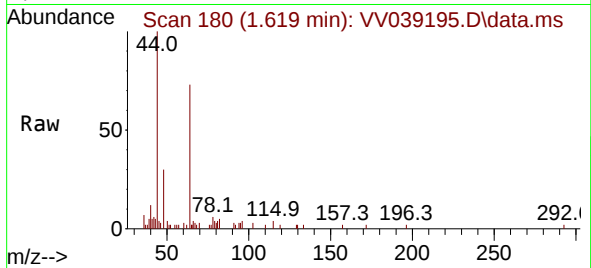




#6
Chloroethane
Concen: Below Cal
RT: 1.619 min Scan# 11
Delta R.T. 0.061 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

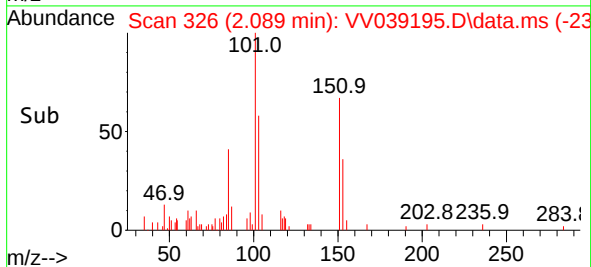
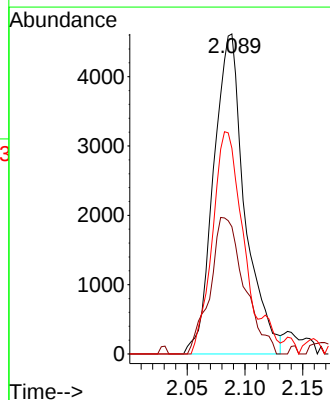
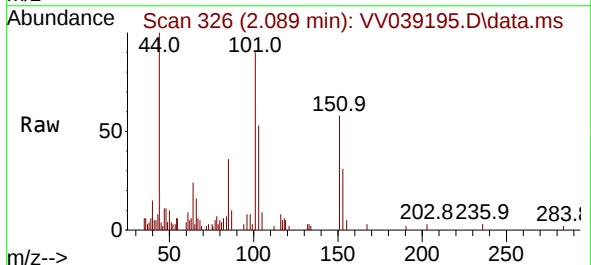
Instrument :
MSVOA_V
ClientSampleId :

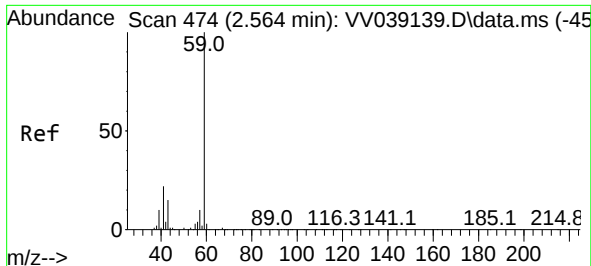
Tgt Ion: 64 Resp: 1166
Ion Ratio Lower Upper
64 100
66 4.0 24.6 36.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.077 ug/l
RT: 2.089 min Scan# 326
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:101 Resp: 8698
Ion Ratio Lower Upper
101 100
85 46.4 36.2 54.2
151 70.7 56.3 84.5





#11

Tert butyl alcohol

Concen: 0.242 ug/l

RT: 2.571 min Scan# 41

Delta R.T. 0.006 min

Lab File: VV039195.D

Acq: 25 Sep 2025 20:25

Instrument :

MSVOA_V

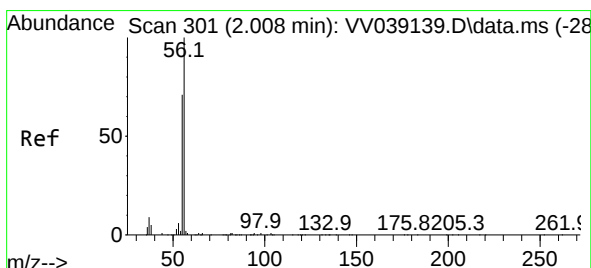
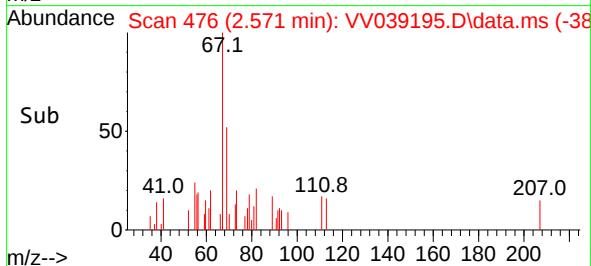
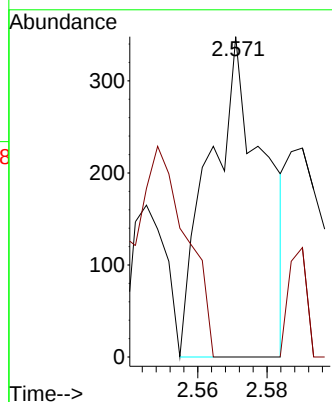
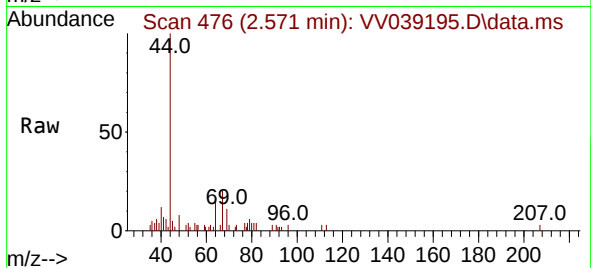
ClientSampleId :

Tgt Ion: 59 Resp: 382

Ion Ratio Lower Upper

59 100

57 11.3 7.8 11.8



#13

Acrolein

Concen: 0.289 ug/l

RT: 2.024 min Scan# 306

Delta R.T. 0.016 min

Lab File: VV039195.D

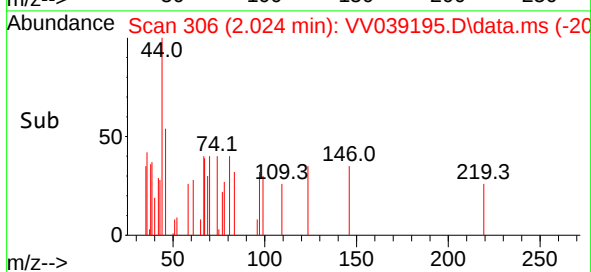
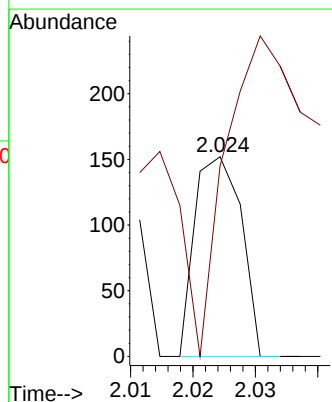
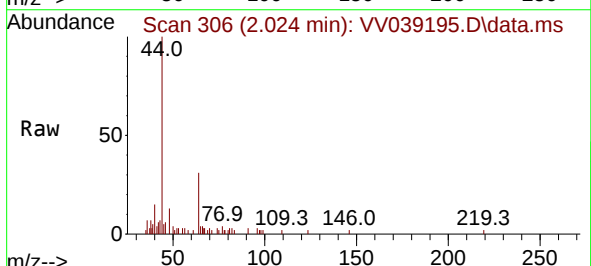
Acq: 25 Sep 2025 20:25

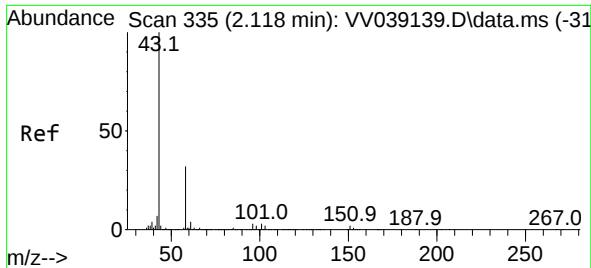
Tgt Ion: 56 Resp: 79

Ion Ratio Lower Upper

56 100

55 481.0 56.2 84.4#

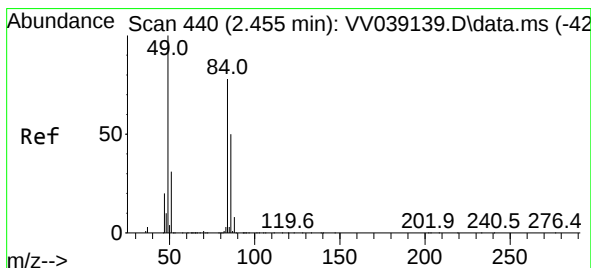
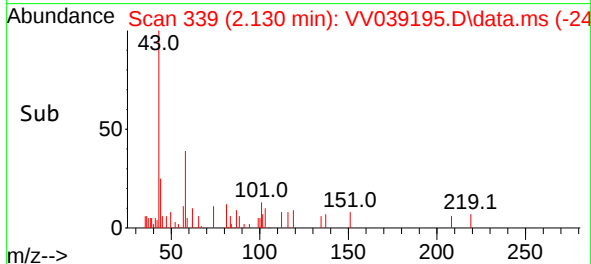
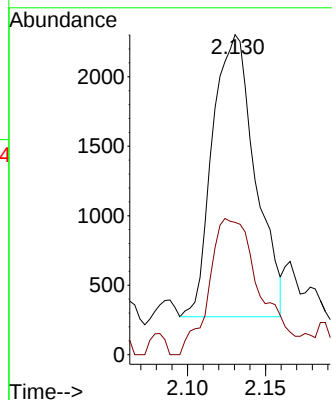
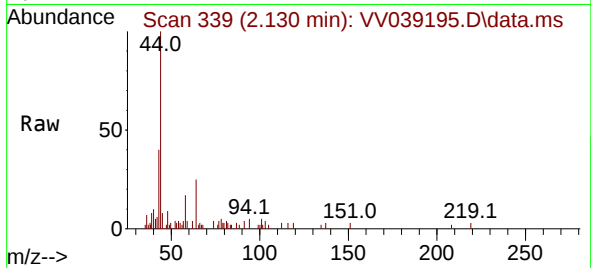




#16
Acetone
Concen: Below Cal
RT: 2.130 min Scan# 31
Delta R.T. 0.012 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

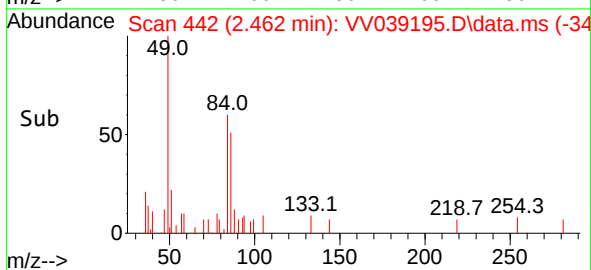
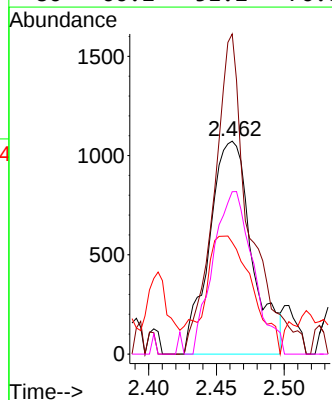
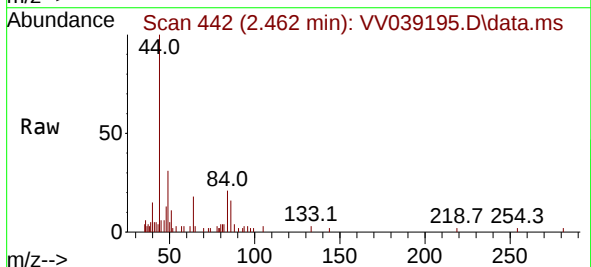
Instrument :
MSVOA_V
ClientSampleId :

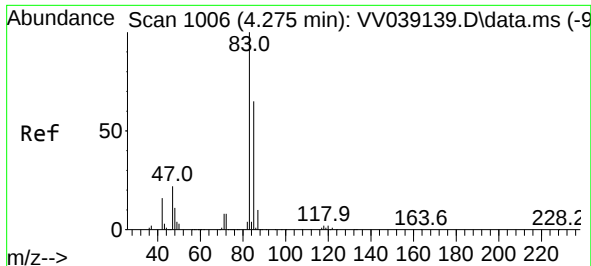
Tgt Ion: 43 Resp: 3860
Ion Ratio Lower Upper
43 100
58 46.9 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.462 min Scan# 442
Delta R.T. 0.007 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 84 Resp: 2336
Ion Ratio Lower Upper
84 100
49 150.3 102.8 154.2
51 52.4 31.9 47.9#
86 66.2 51.2 76.8





#30

Chloroform

Concen: 0.349 ug/l

RT: 4.298 min Scan# 1108

Delta R.T. 0.023 min

Lab File: VV039195.D

Acq: 25 Sep 2025 20:25

Instrument :

MSVOA_V

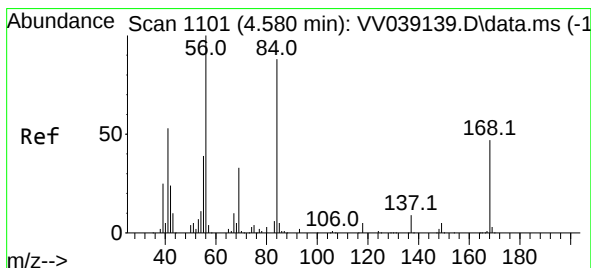
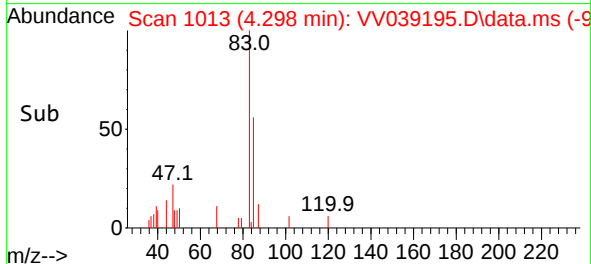
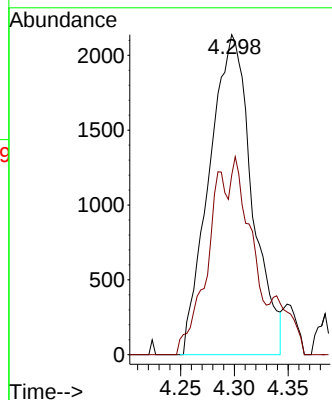
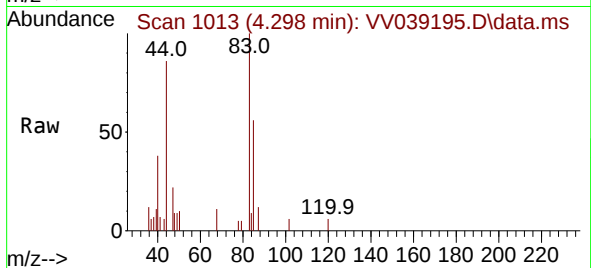
ClientSampleId :

Tgt Ion: 83 Resp: 5926

Ion Ratio Lower Upper

83 100

85 51.3 52.1 78.1#



#31

Cyclohexane

Concen: 0.865 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. 0.023 min

Lab File: VV039195.D

Acq: 25 Sep 2025 20:25

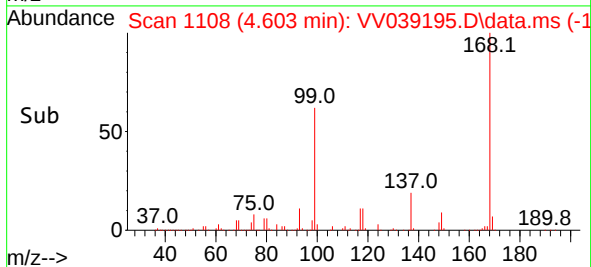
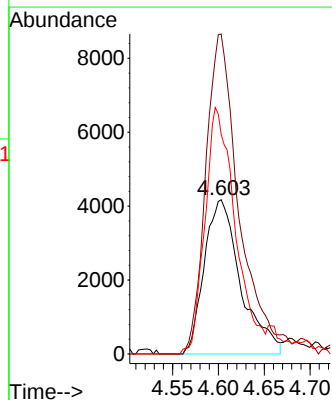
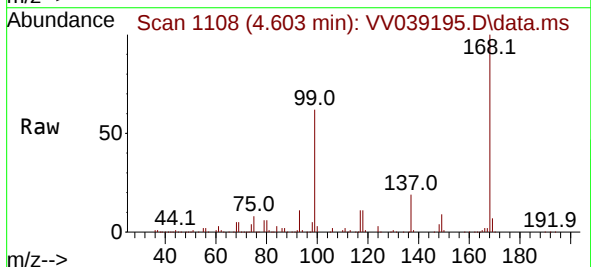
Tgt Ion: 56 Resp: 11510

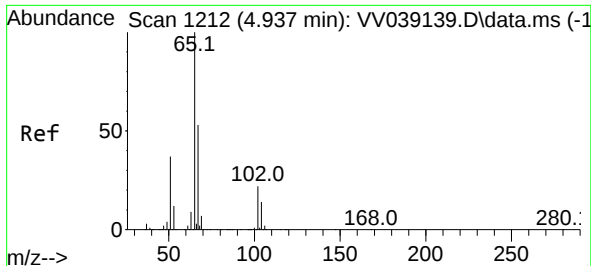
Ion Ratio Lower Upper

56 100

69 207.4 26.2 39.2#

84 142.3 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 55.568 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039195.D

Acq: 25 Sep 2025 20:25

Instrument :

MSVOA_V

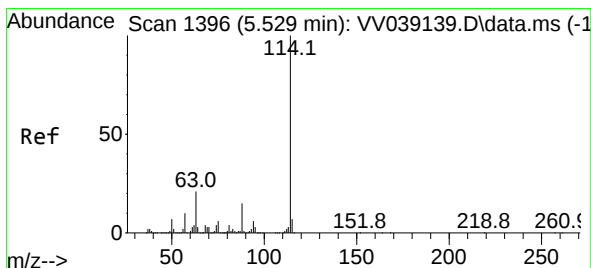
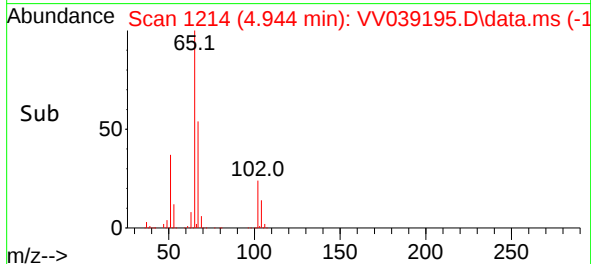
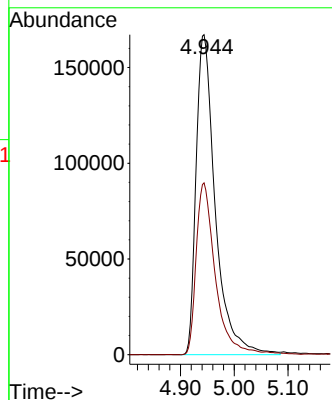
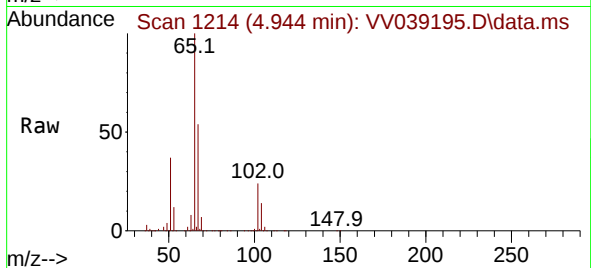
ClientSampleId :

Tgt Ion: 65 Resp: 414441

Ion Ratio Lower Upper

65 100

67 53.2 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: VV039195.D

Acq: 25 Sep 2025 20:25

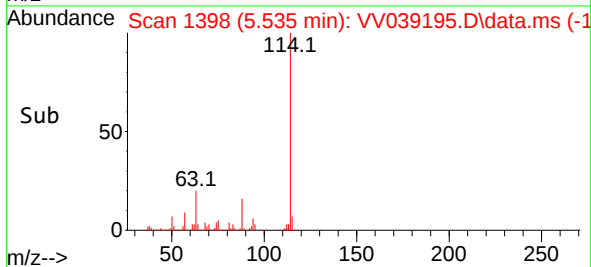
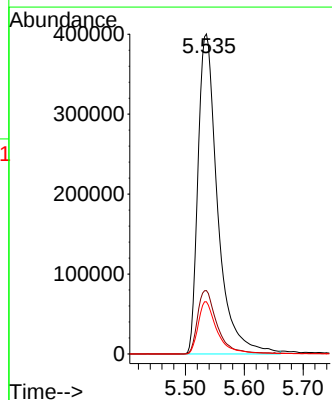
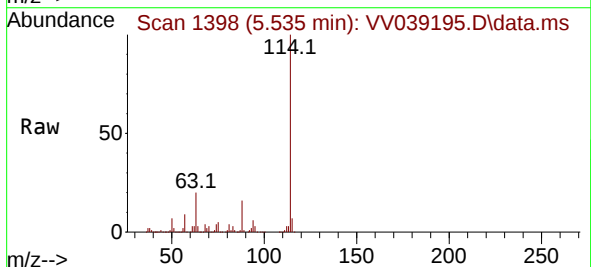
Tgt Ion: 114 Resp: 928629

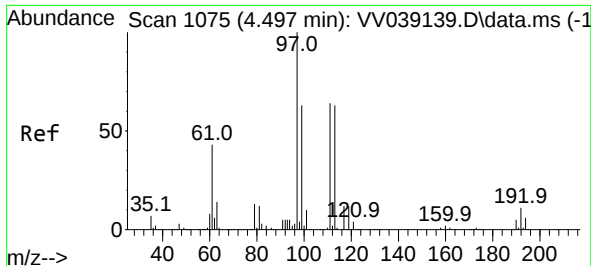
Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 16.3 0.0 30.8





#35

Dibromofluoromethane

Concen: 51.477 ug/l

RT: 4.503 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VV039195.D

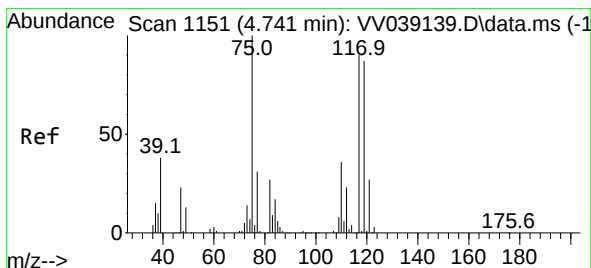
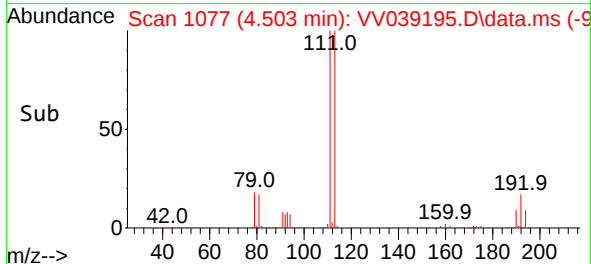
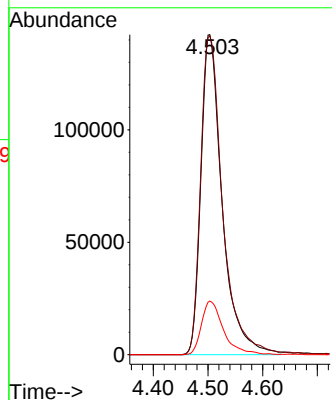
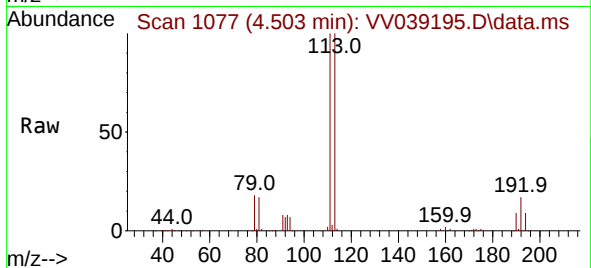
Acq: 25 Sep 2025 20:25

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:113	Resp:	384300
Ion	Ratio	Lower Upper
113	100	
111	102.8	82.4 123.6
192	17.3	13.8 20.8



#36

1,1-Dichloropropene

Concen: 3.721 ug/l

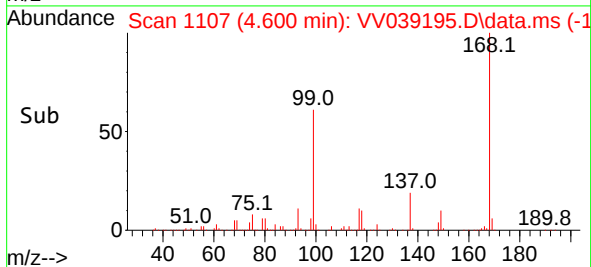
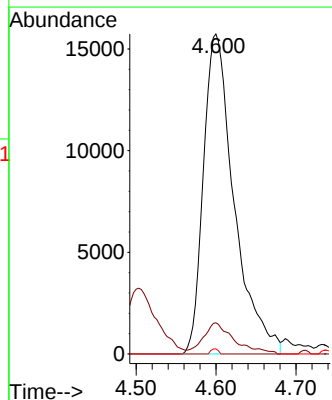
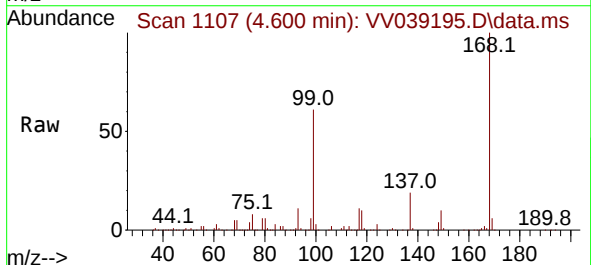
RT: 4.600 min Scan# 1107

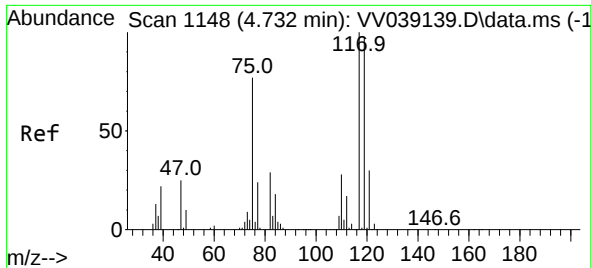
Delta R.T. -0.141 min

Lab File: VV039195.D

Acq: 25 Sep 2025 20:25

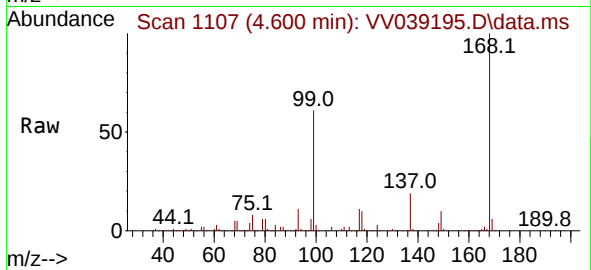
Tgt Ion: 75	Resp:	41999
Ion	Ratio	Lower Upper
75	100	
110	9.8	18.1 54.1#
77	0.4	24.8 37.2#



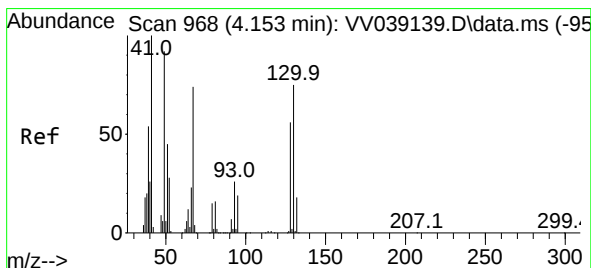
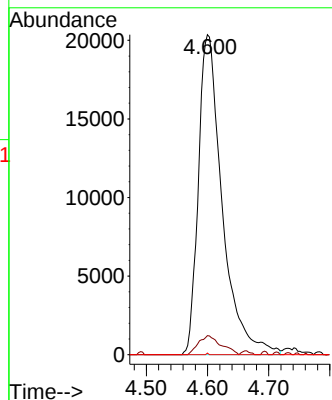
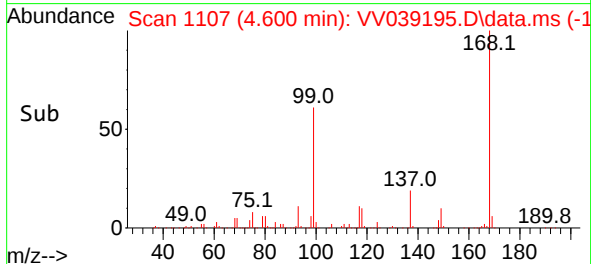


#38
Carbon Tetrachloride
Concen: 4.003 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Instrument :
MSVOA_V
ClientSampleId :

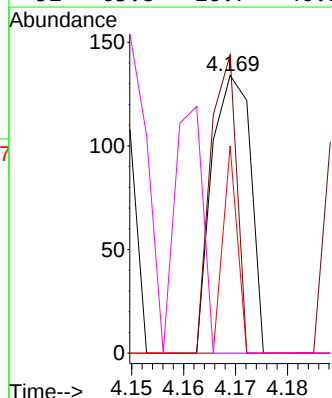
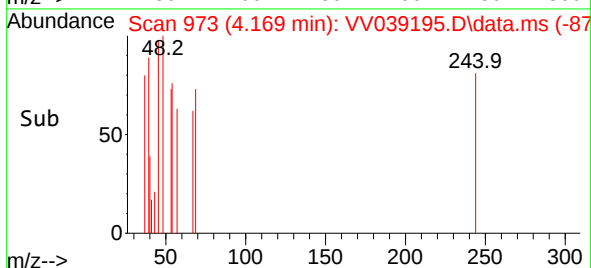
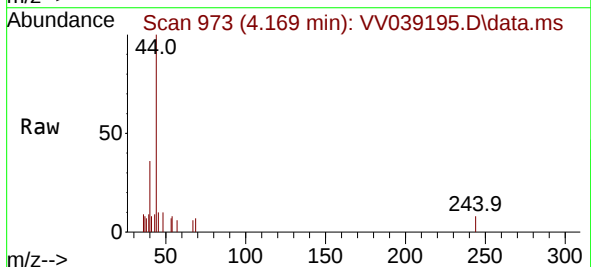


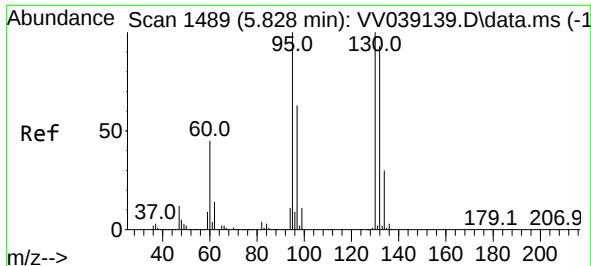
Tgt Ion:117 Resp: 55217
Ion Ratio Lower Upper
117 100
119 6.0 77.2 115.8#
121 0.5 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.921 ug/l
RT: 4.169 min Scan# 973
Delta R.T. 0.016 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 41 Resp: 69
Ion Ratio Lower Upper
41 100
39 72.5 42.2 63.2#
67 27.5 67.9 101.9#
52 63.8 26.7 40.1#

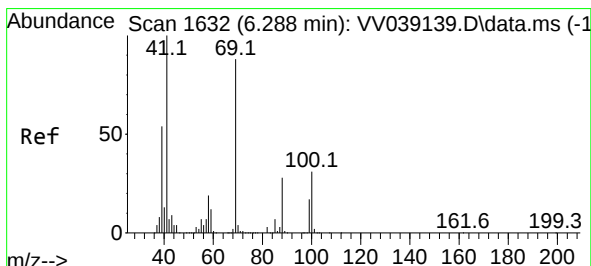
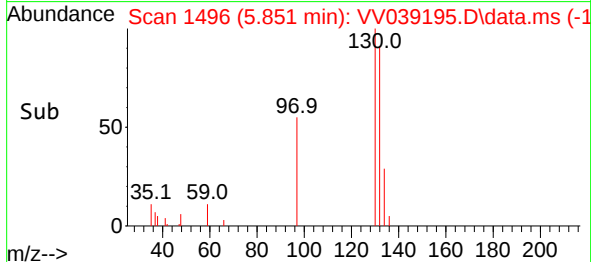
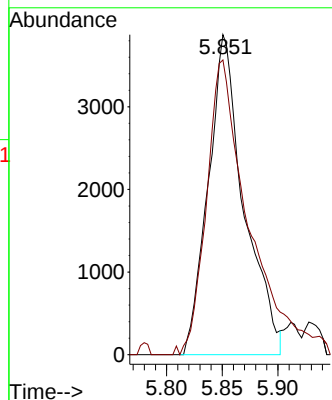
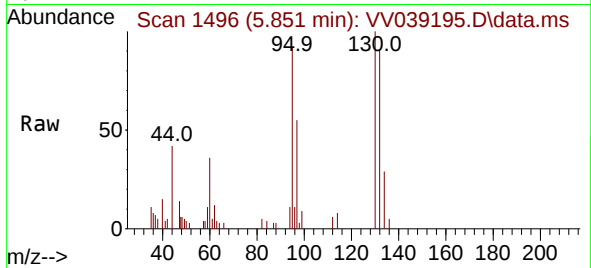




#44
Trichloroethene
Concen: 1.018 ug/l
RT: 5.851 min Scan# 1489
Delta R.T. 0.023 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

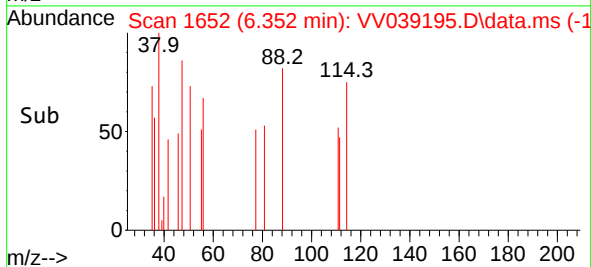
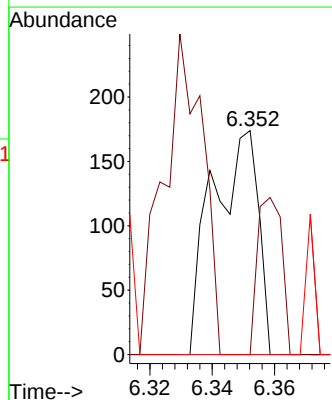
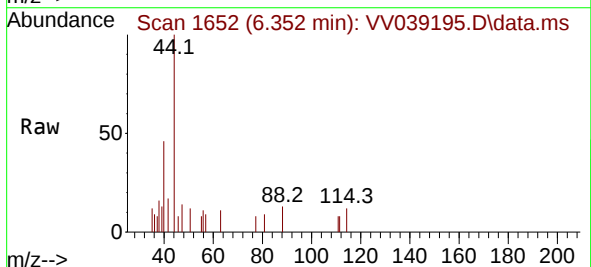
Instrument :
MSVOA_V
ClientSampleId :

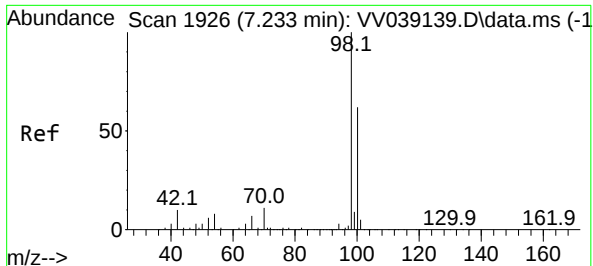
Tgt Ion:130 Resp: 8633
Ion Ratio Lower Upper
130 100
95 92.1 0.0 199.2



#49
1,4-Dioxane
Concen: 1.296 ug/l
RT: 6.352 min Scan# 1652
Delta R.T. 0.064 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 88 Resp: 177
Ion Ratio Lower Upper
88 100
43 37.3 25.1 37.7
58 0.0 53.6 80.4#





#50

Toluene-d8

Concen: 46.160 ug/l

RT: 7.236 min Scan# 1926

Delta R.T. 0.003 min

Lab File: VV039195.D

Acq: 25 Sep 2025 20:25

Instrument :

MSVOA_V

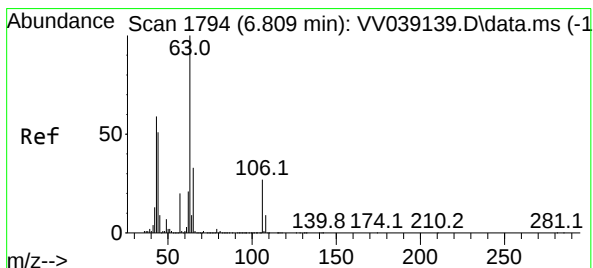
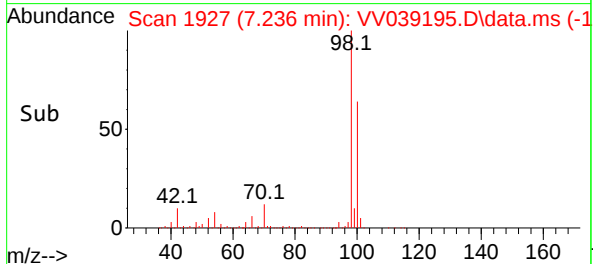
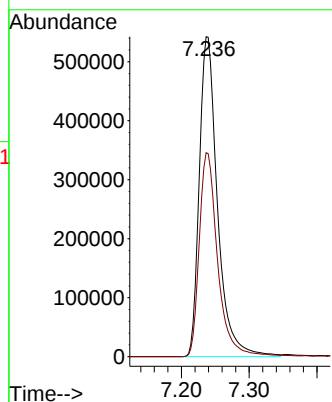
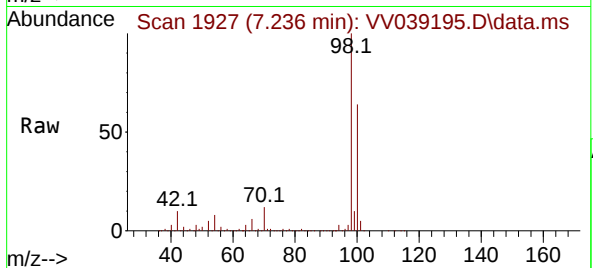
ClientSampleId :

Tgt Ion: 98 Resp: 1012096

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.642 ug/l

RT: 6.815 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VV039195.D

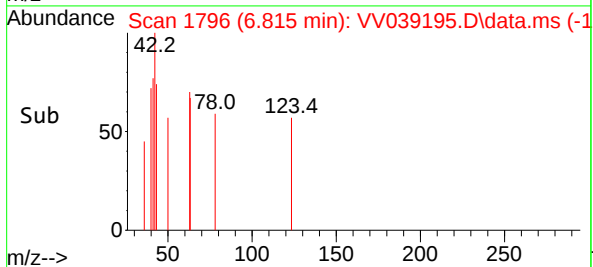
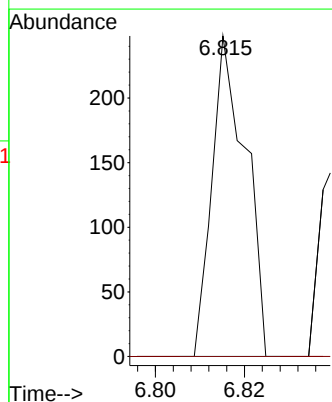
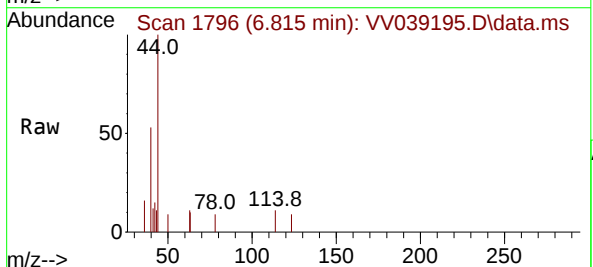
Acq: 25 Sep 2025 20:25

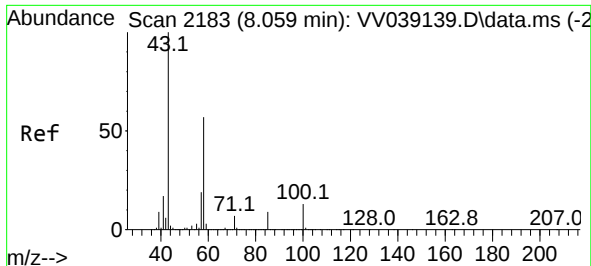
Tgt Ion: 63 Resp: 130

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

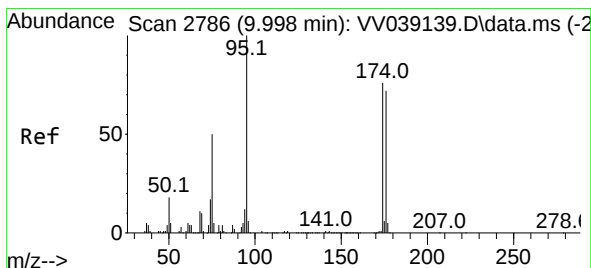
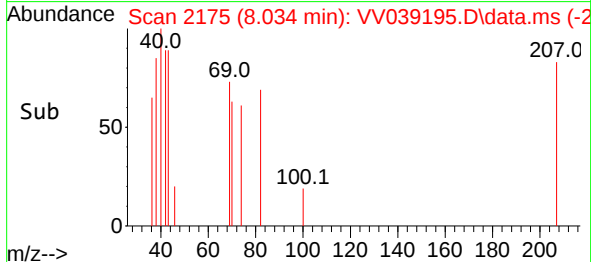
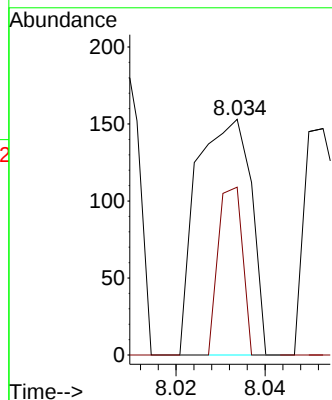
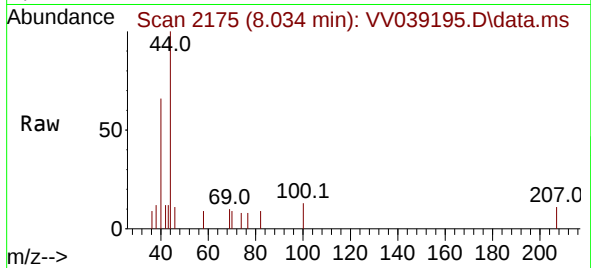




#59
2-Hexanone
Concen: 2.339 ug/l
RT: 8.034 min Scan# 2183
Delta R.T. -0.025 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

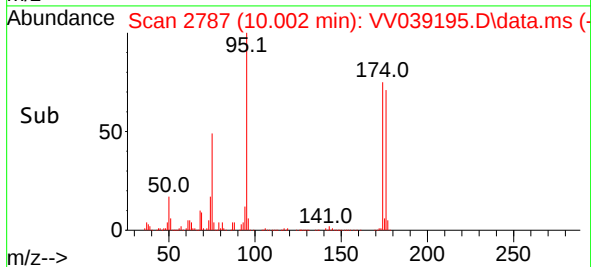
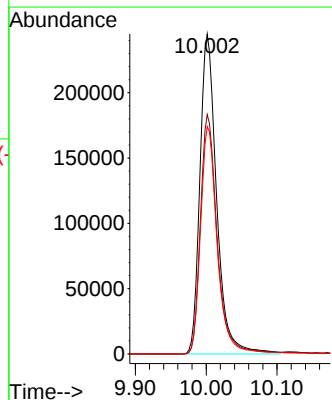
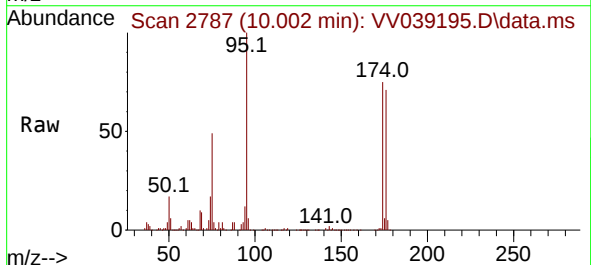
Instrument :
MSVOA_V
ClientSampleId :

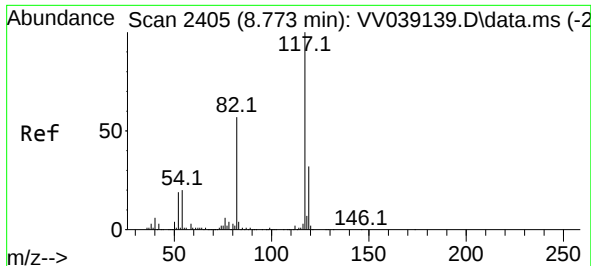
Tgt Ion: 43 Resp: 130
Ion Ratio Lower Upper
43 100
58 31.5 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 44.448 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 95 Resp: 401201
Ion Ratio Lower Upper
95 100
174 75.4 0.0 150.4
176 71.2 0.0 144.2

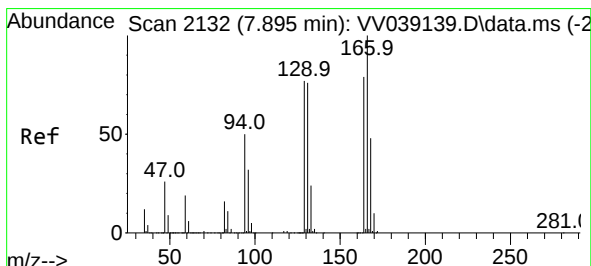
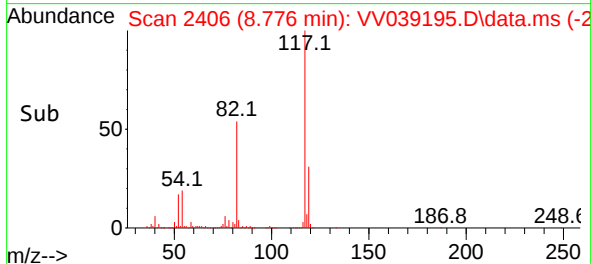
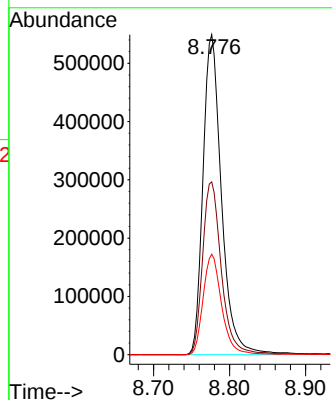
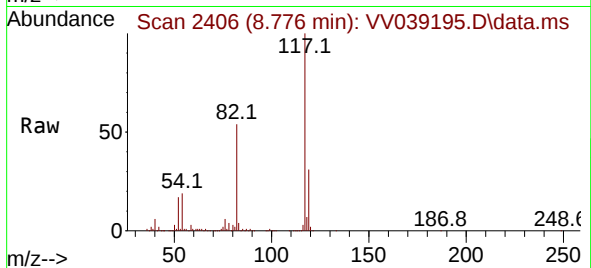




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

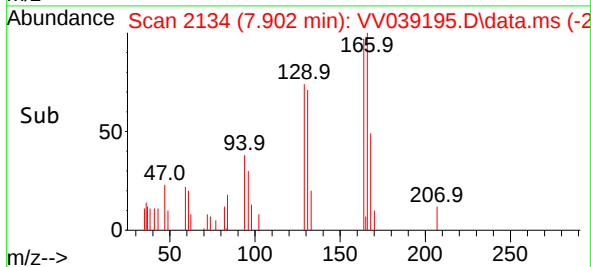
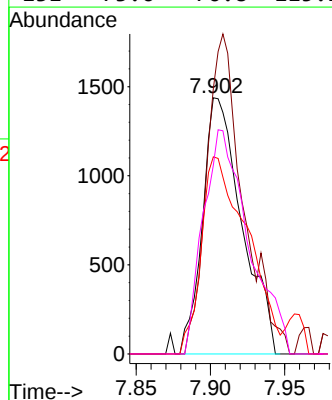
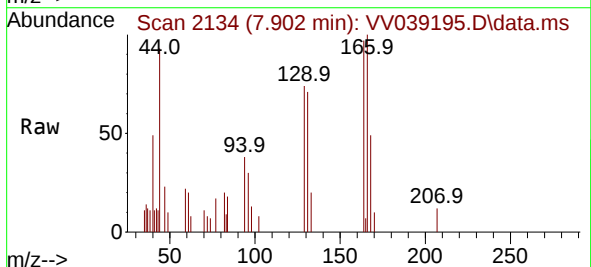
Instrument :
MSVOA_V
ClientSampleId :

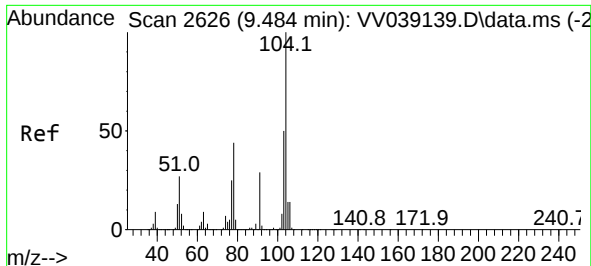
Tgt Ion:117 Resp: 925762
Ion Ratio Lower Upper
117 100
82 54.0 45.4 68.2
119 31.4 25.6 38.4



#64
Tetrachloroethene
Concen: 0.342 ug/l
RT: 7.902 min Scan# 2134
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:164 Resp: 2650
Ion Ratio Lower Upper
164 100
166 103.5 101.6 152.4
129 76.9 78.5 117.7#
131 73.6 76.8 115.2#

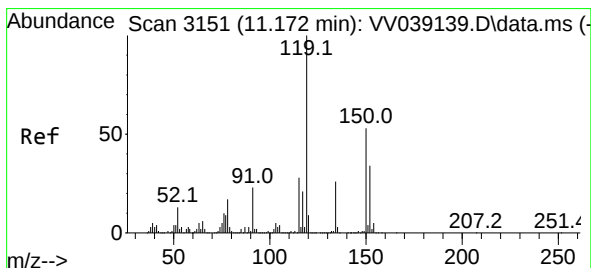
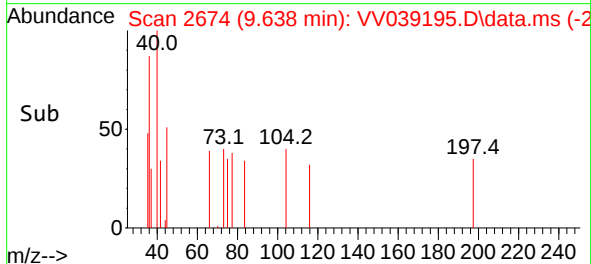
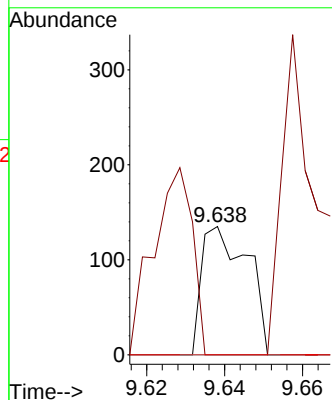
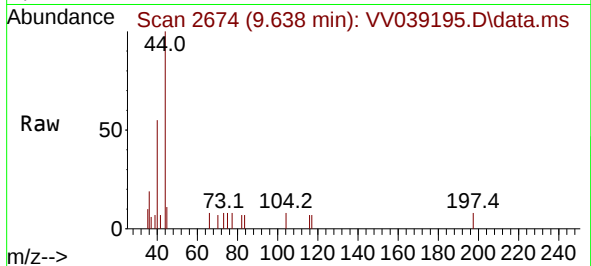




#70
Styrene
Concen: 1.565 ug/l
RT: 9.638 min Scan# 2674
Delta R.T. 0.154 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

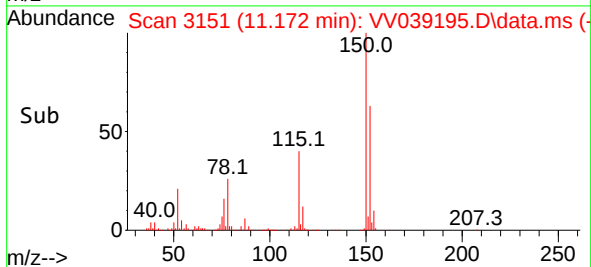
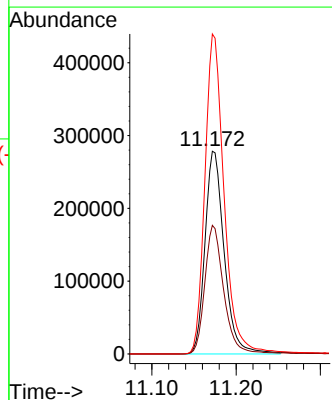
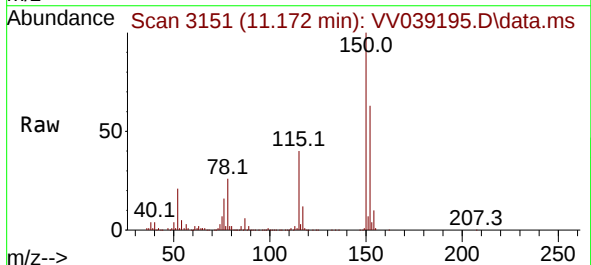
Instrument :
MSVOA_V
ClientSampleId :

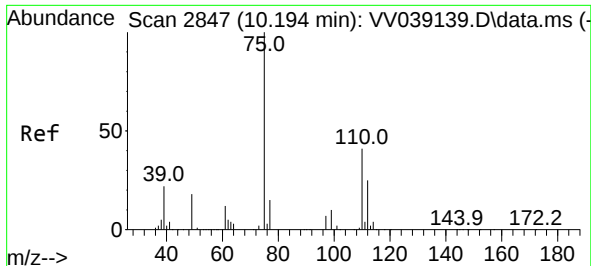
Tgt Ion:104 Resp: 110
Ion Ratio Lower Upper
104 100
78 124.5 39.8 59.6#
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:152 Resp: 442595
Ion Ratio Lower Upper
152 100
115 62.3 44.8 134.4
150 158.9 0.0 353.8

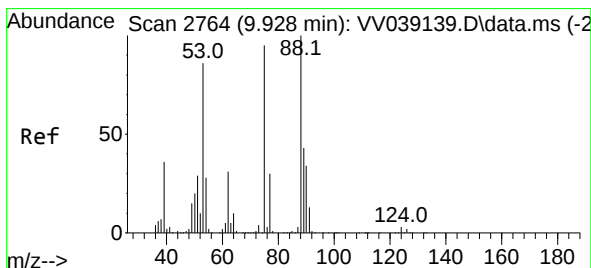
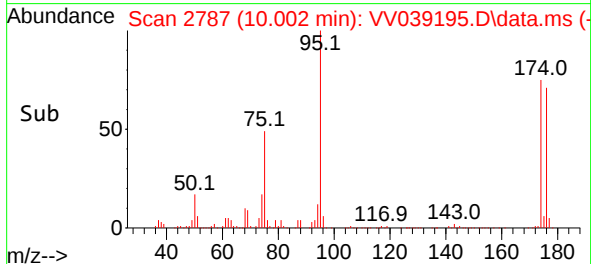
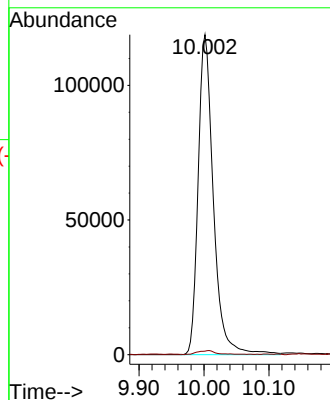
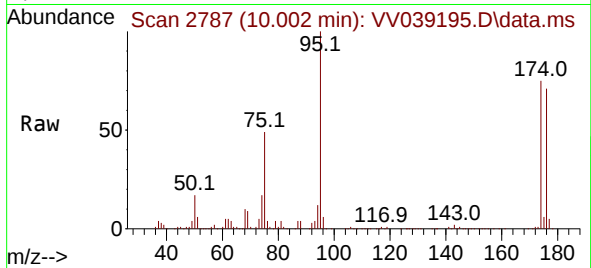




#76
1,2,3-Trichloropropane
Concen: 19.286 ug/l
RT: 10.002 min Scan# 21
Delta R.T. -0.193 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

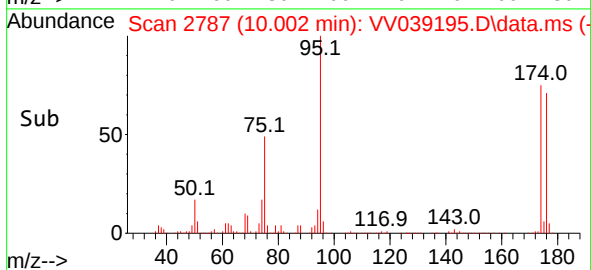
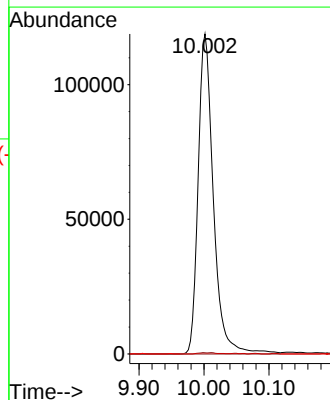
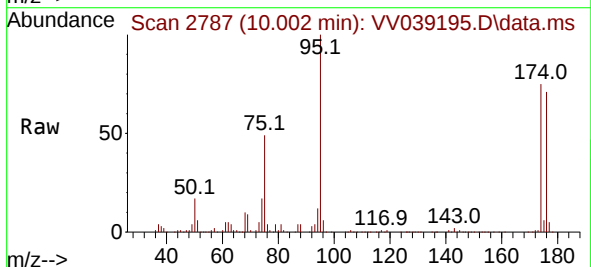
Instrument :
MSVOA_V
ClientSampleId :

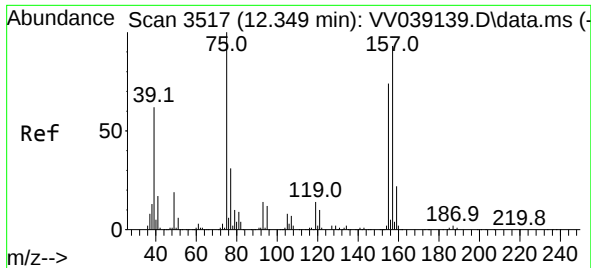
Tgt Ion: 75 Resp: 194351
Ion Ratio Lower Upper
75 100
77 1.7 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.300 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

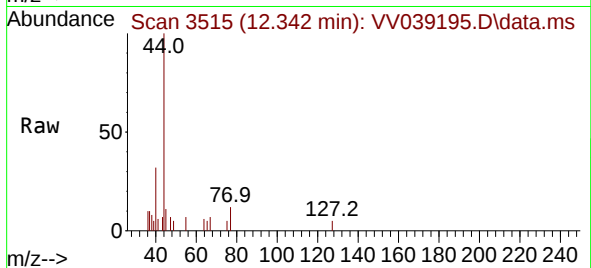
Tgt Ion: 75 Resp: 194351
Ion Ratio Lower Upper
75 100
53 0.2 72.5 108.7#
89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.342 min Scan# 31
 Delta R.T. -0.007 min
 Lab File: VV039195.D
 Acq: 25 Sep 2025 20:25

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 75 Resp: 19
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

