

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039186.D
 Acq On : 25 Sep 2025 17:03
 Operator : SY/MD
 Sample : Q3195-22
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:33:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

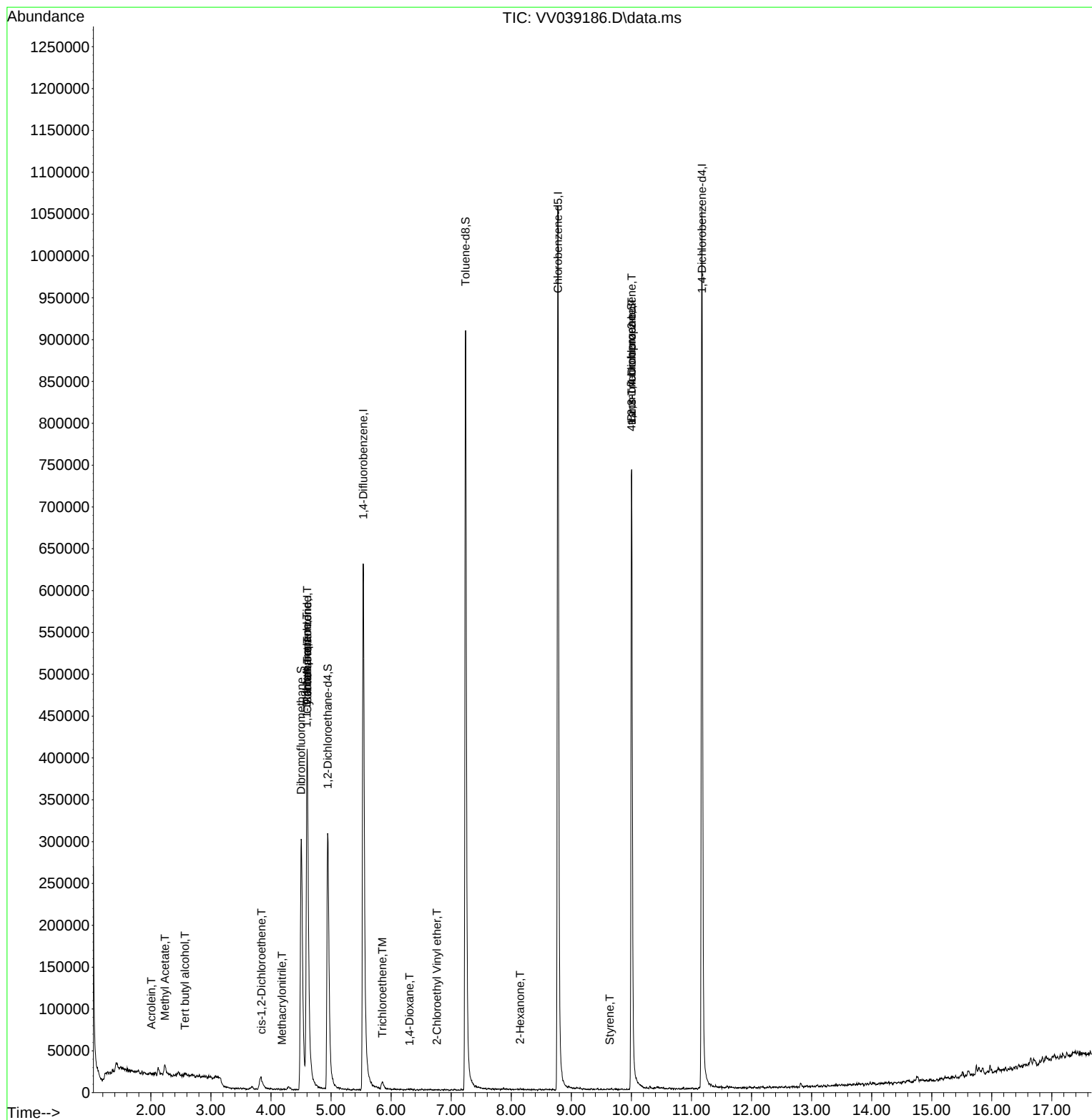
Internal Standards						
1) Pentafluorobenzene	4.603	168	349429	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	628697	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	611801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	288234	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	280558	55.476	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	110.960%
35) Dibromofluoromethane	4.503	113	249782	49.421	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	98.840%
50) Toluene-d8	7.239	98	674823	45.460	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	90.920%
62) 4-Bromofluorobenzene	10.001	95	261365	42.770	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	85.540%
Target Compounds						
					Qvalue	
6) Chloroethane	1.523	64	1000	Below Cal	#	44
11) Tert butyl alcohol	2.568	59	837	0.783	ug/l #	64
13) Acrolein	2.008	56	146	0.787	ug/l #	15
16) Acetone	2.130	43	10036	Below Cal		97
18) Methyl Acetate	2.233	43	2749	0.367	ug/l #	54
20) Methylene Chloride	2.455	84	2085	Below Cal	#	81
27) cis-1,2-Dichloroethene	3.841	96	1971	0.319	ug/l	60
31) Cyclohexane	4.606	56	5391	0.598	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	30451	3.985	ug/l #	46
38) Carbon Tetrachloride	4.603	117	36842	3.945	ug/l #	16
41) Methacrylonitrile	4.182	41	83	1.930	ug/l #	29
44) Trichloroethene	5.854	130	3671	0.639	ug/l	95
49) 1,4-Dioxane	6.307	88	51	0.551	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.760	63	71	9.638	ug/l	96
59) 2-Hexanone	8.146	43	93	2.339	ug/l	83
70) Styrene	9.638	104	20	1.563	ug/l #	29
76) 1,2,3-Trichloropropane	10.005	75	130946	19.953	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.005	75	130946	47.902	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.416	75	73	Below Cal	#	5

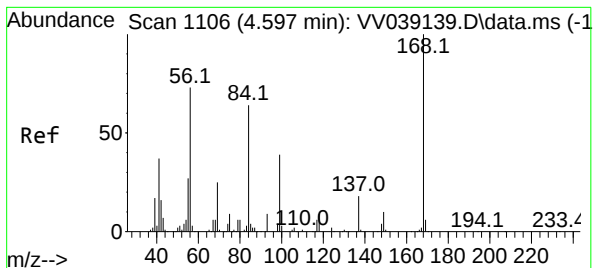
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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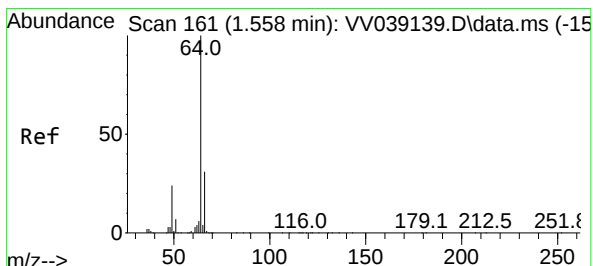
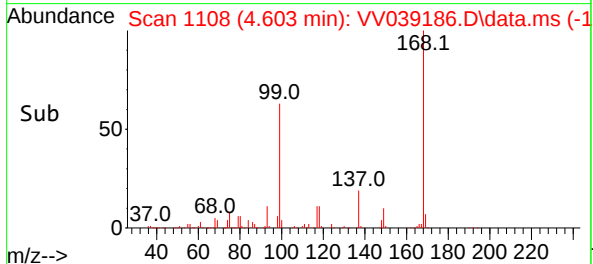
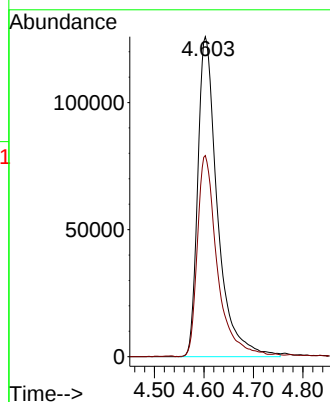
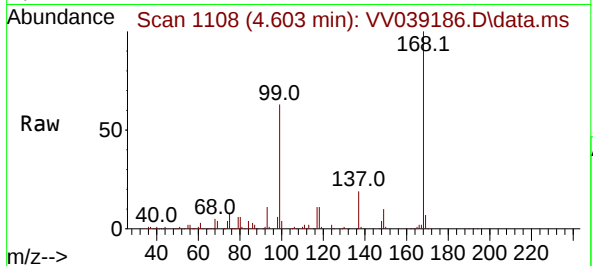




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

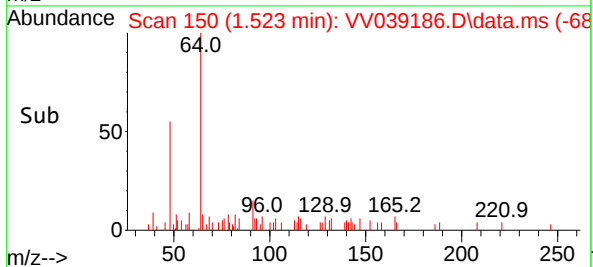
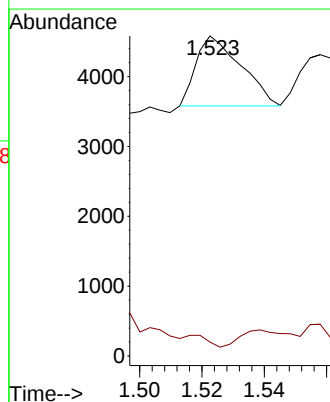
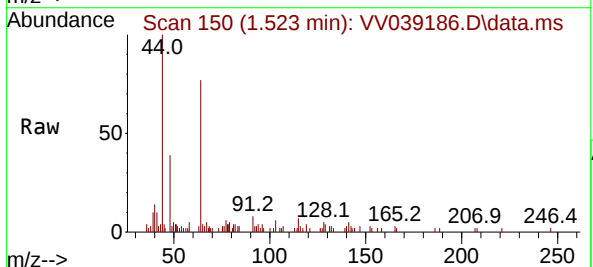
Instrument :
MSVOA_V
ClientSampleId :

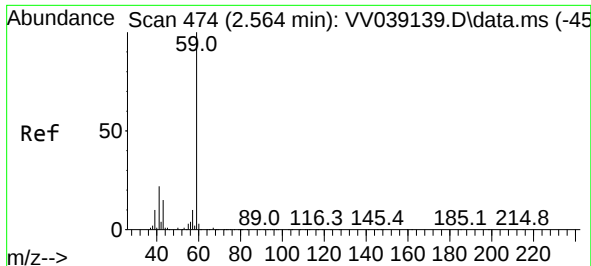
Tgt Ion:168 Resp: 349429
Ion Ratio Lower Upper
168 100
99 62.7 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.523 min Scan# 150
Delta R.T. -0.035 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

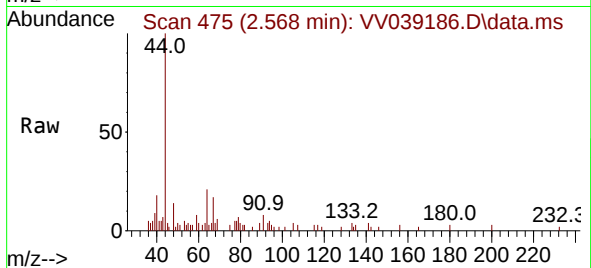
Tgt Ion: 64 Resp: 1000
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



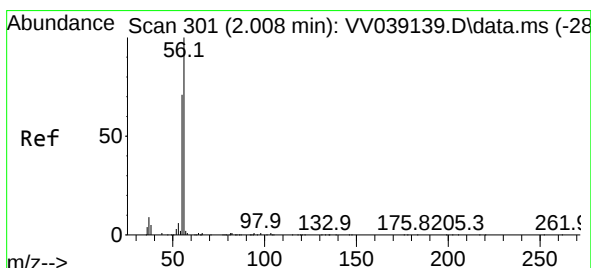
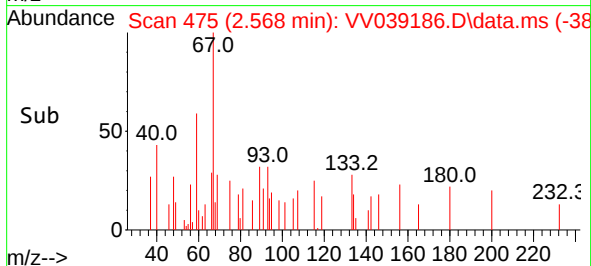
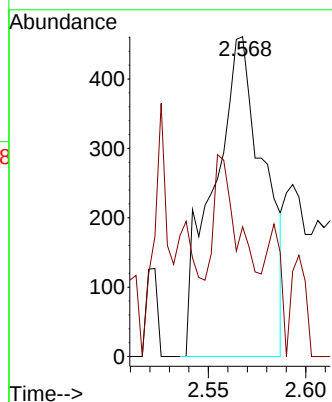


#11
Tert butyl alcohol
Concen: 0.783 ug/l
RT: 2.568 min Scan# 411
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Instrument :
MSVOA_V
ClientSampleId :

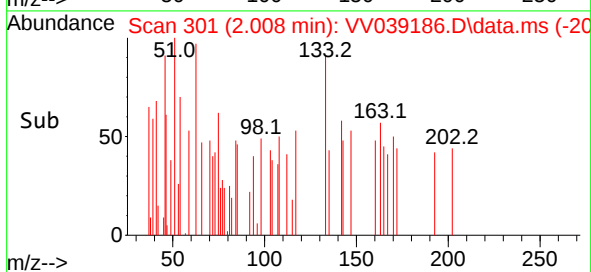
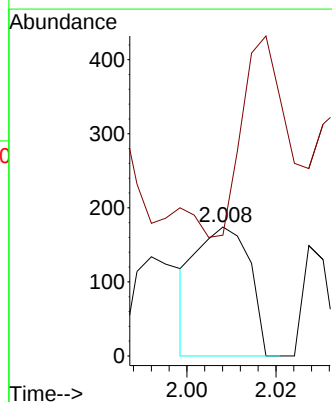
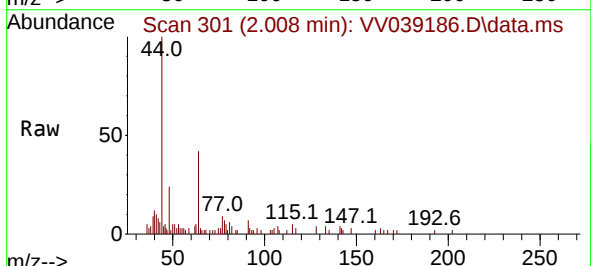


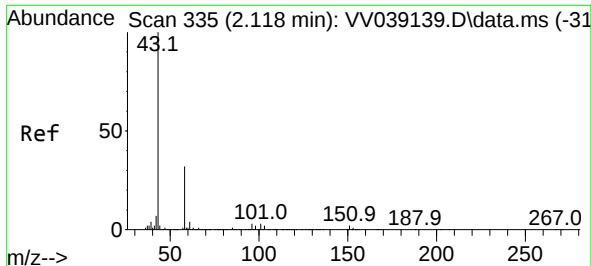
Tgt Ion: 59 Resp: 837
Ion Ratio Lower Upper
59 100
57 22.9 7.8 11.8#



#13
Acrolein
Concen: 0.787 ug/l
RT: 2.008 min Scan# 301
Delta R.T. -0.000 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 56 Resp: 146
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

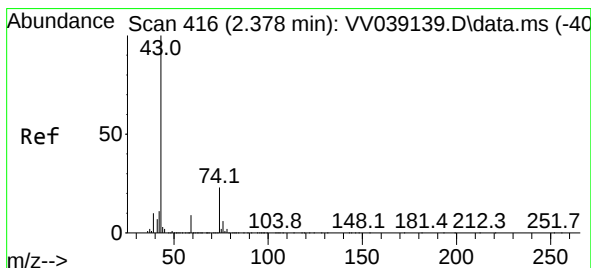
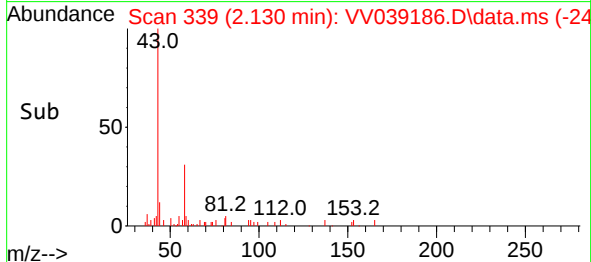
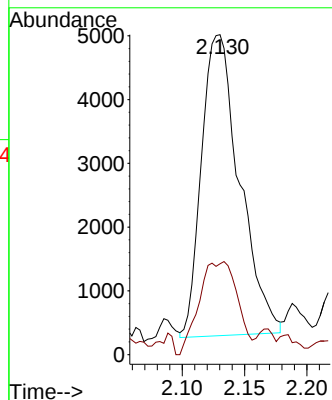
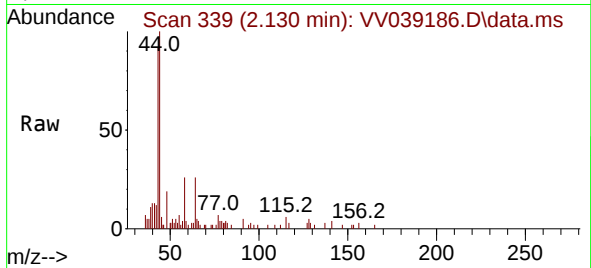




#16
Acetone
Concen: Below Cal
RT: 2.130 min Scan# 311
Delta R.T. 0.012 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

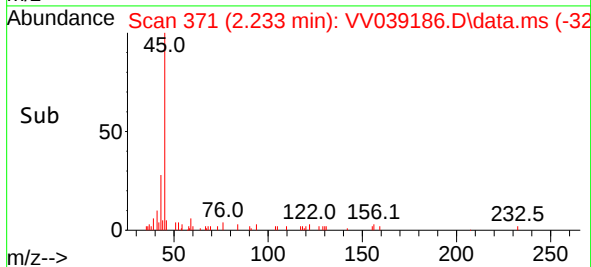
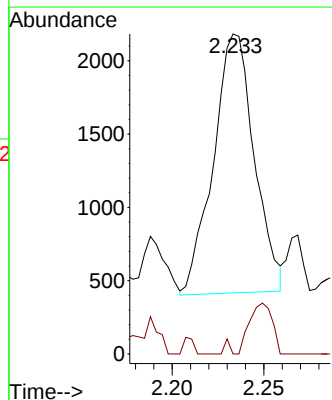
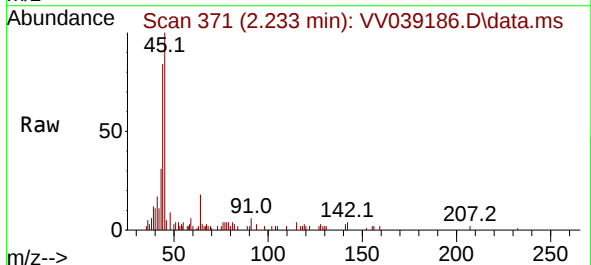
Instrument :
MSVOA_V
ClientSampleId :

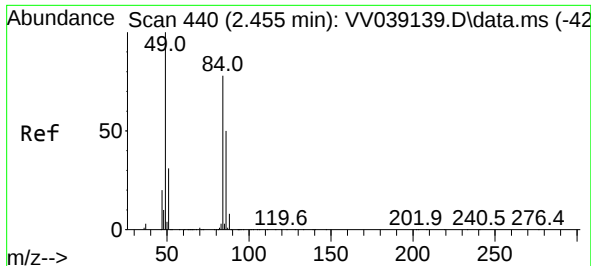
Tgt Ion: 43 Resp: 10036
Ion Ratio Lower Upper
43 100
58 30.5 25.8 38.6



#18
Methyl Acetate
Concen: 0.367 ug/l
RT: 2.233 min Scan# 371
Delta R.T. -0.145 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 43 Resp: 2749
Ion Ratio Lower Upper
43 100
74 0.7 18.6 27.8#

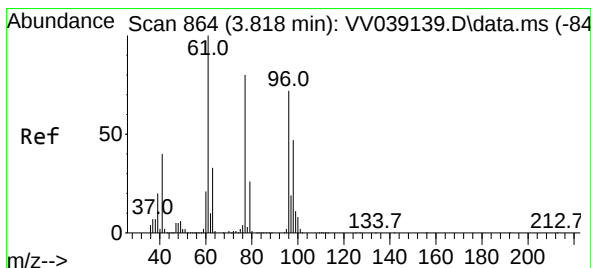
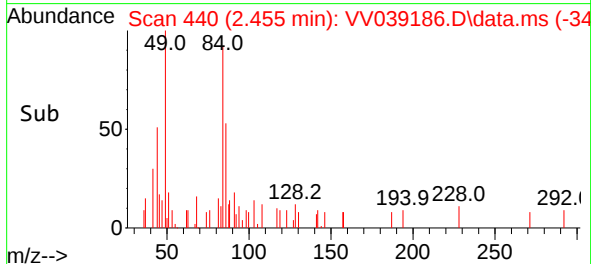
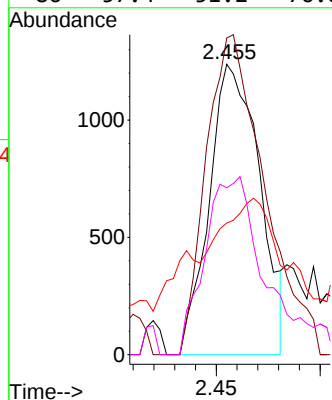
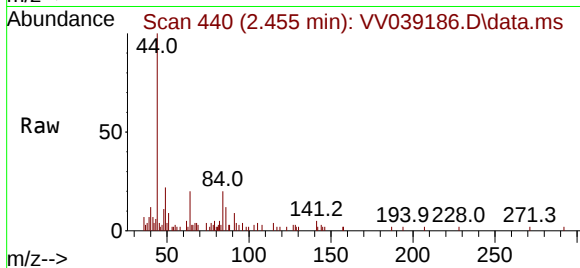




#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

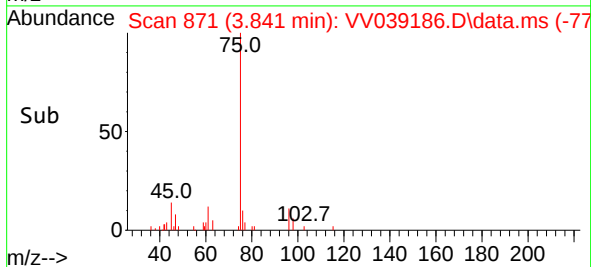
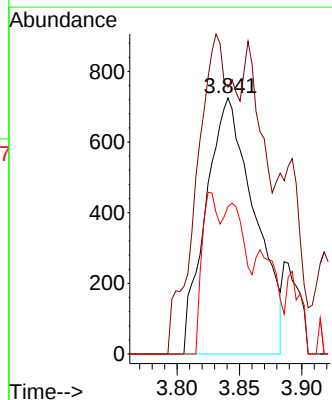
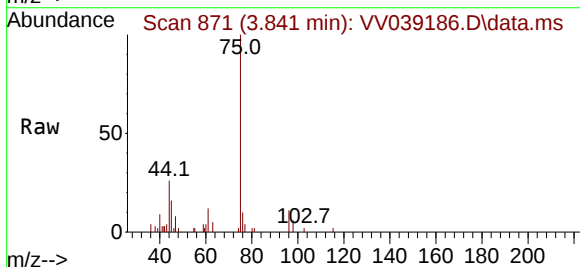
Instrument :
MSVOA_V
ClientSampleId :

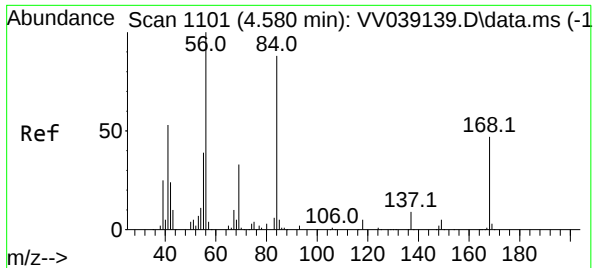
Tgt Ion:	84	Resp:	2085
Ion	Ratio	Lower	Upper
84	100		
49	109.0	102.8	154.2
51	14.5	31.9	47.9#
86	57.4	51.2	76.8



#27
cis-1,2-Dichloroethene
Concen: 0.319 ug/l
RT: 3.841 min Scan# 871
Delta R.T. 0.022 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion:	96	Resp:	1971
Ion	Ratio	Lower	Upper
96	100		
61	100.4	0.0	286.4
98	22.4	0.0	126.6

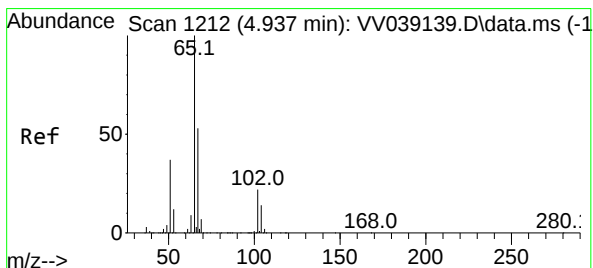
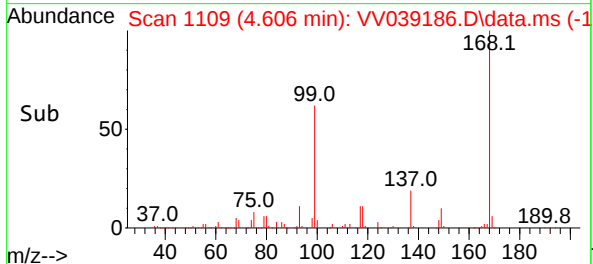
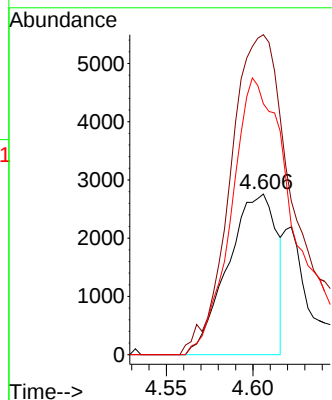
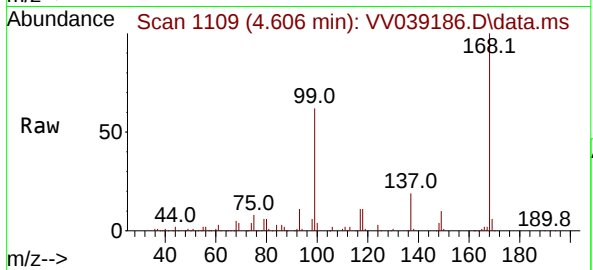




#31
Cyclohexane
Concen: 0.598 ug/l
RT: 4.606 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

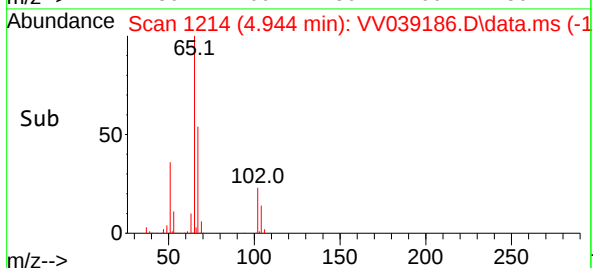
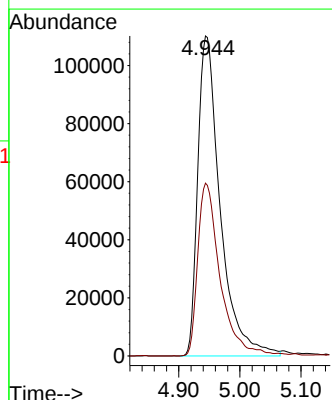
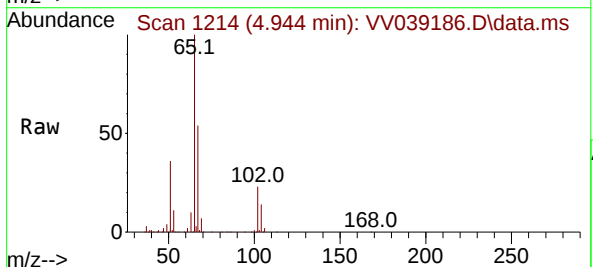
Instrument :
MSVOA_V
ClientSampleId :

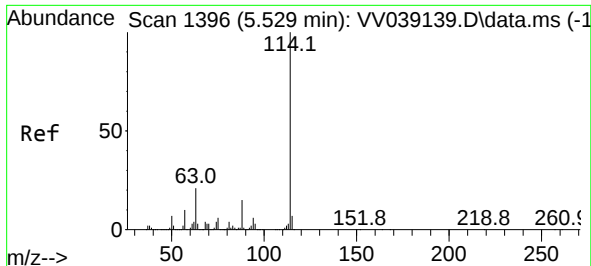
Tgt Ion: 56 Resp: 5391
Ion Ratio Lower Upper
56 100
69 199.2 26.2 39.2#
84 156.1 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 55.476 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 65 Resp: 280558
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039186.D

Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_V

ClientSampleId :

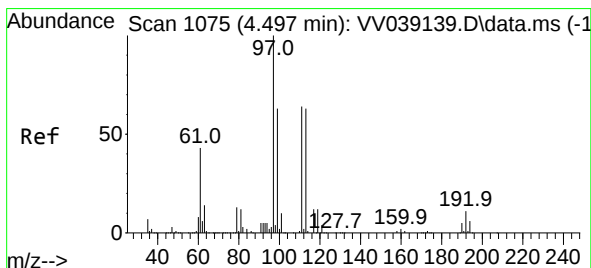
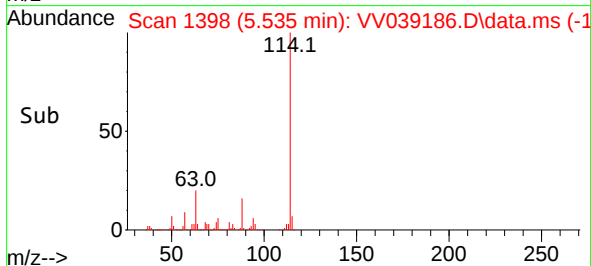
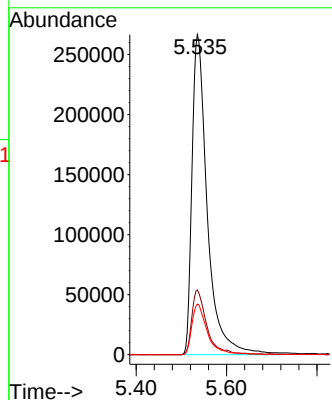
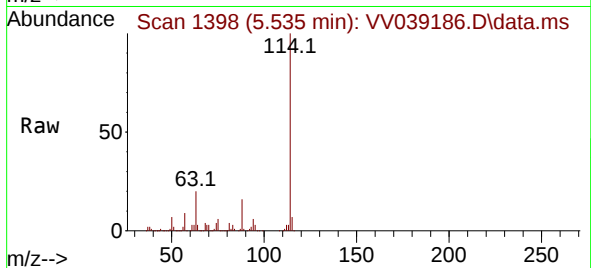
Tgt Ion:114 Resp: 628697

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.8 0.0 30.8



#35

Dibromofluoromethane

Concen: 49.421 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039186.D

Acq: 25 Sep 2025 17:03

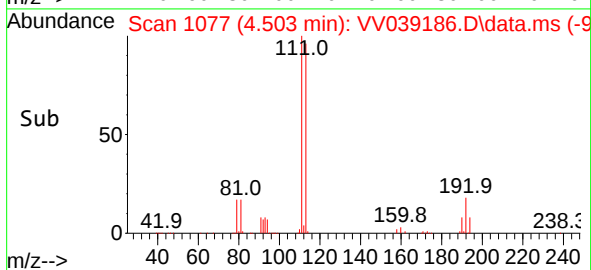
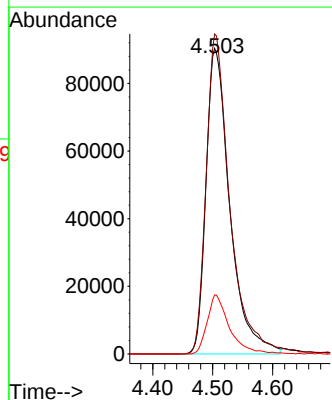
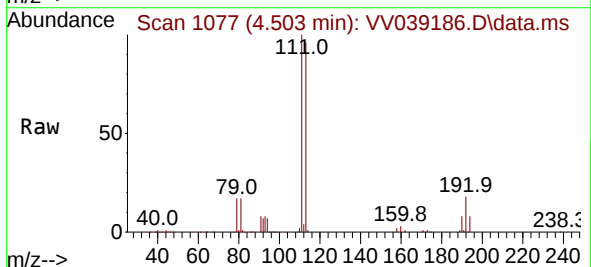
Tgt Ion:113 Resp: 249782

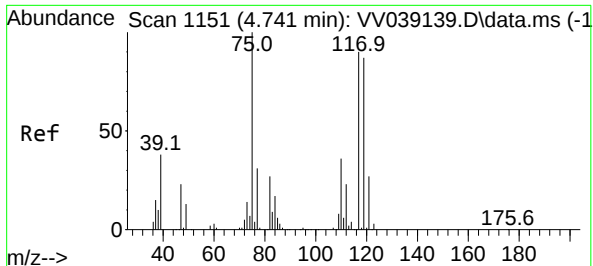
Ion Ratio Lower Upper

113 100

111 104.1 82.4 123.6

192 18.1 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.985 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. -0.145 min

Lab File: VV039186.D

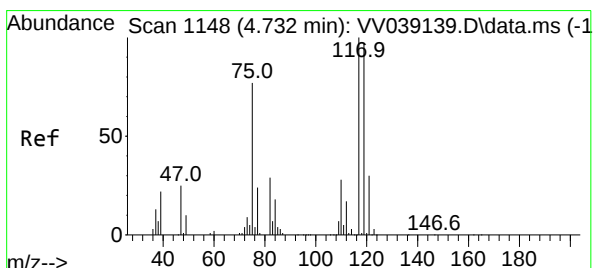
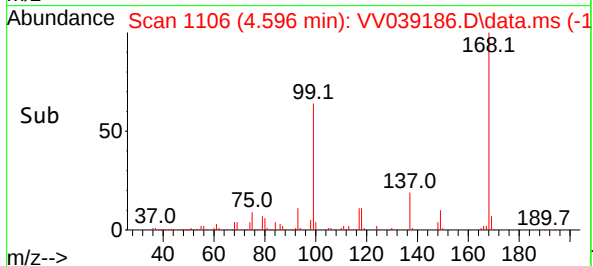
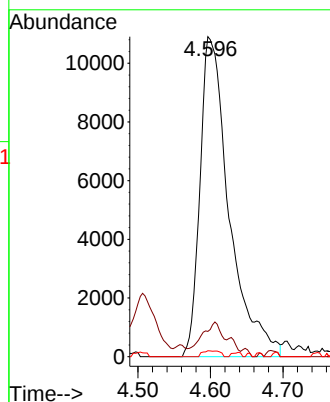
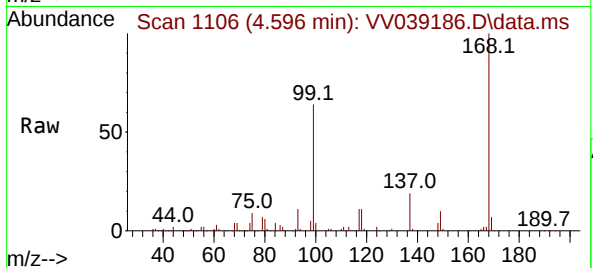
Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	75	Resp:	30451
Ion	Ratio	Lower	Upper
75	100		
110	4.8	18.1	54.1#
77	1.1	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 3.945 ug/l

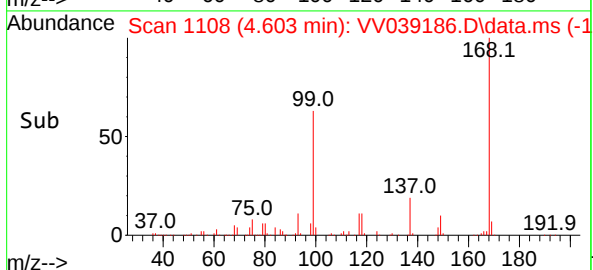
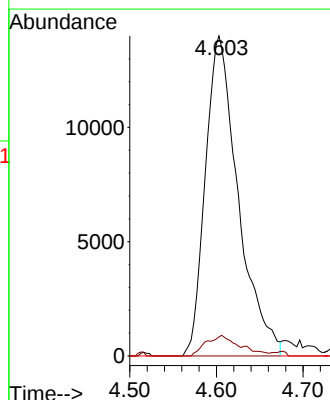
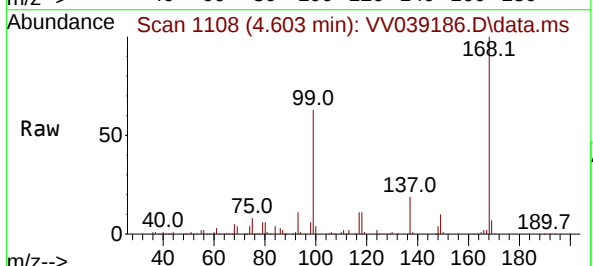
RT: 4.603 min Scan# 1108

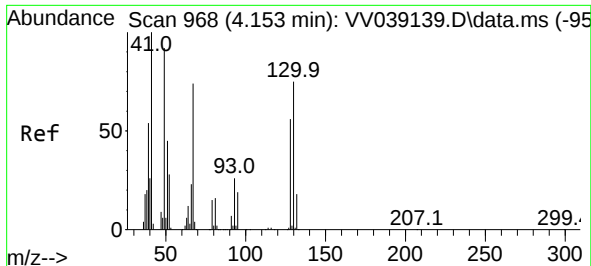
Delta R.T. -0.129 min

Lab File: VV039186.D

Acq: 25 Sep 2025 17:03

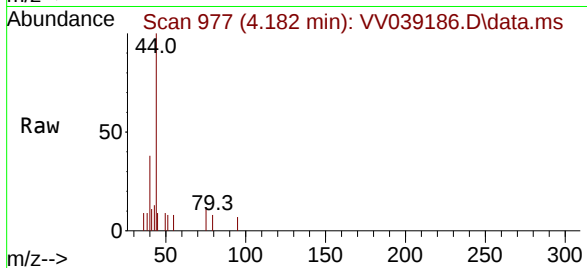
Tgt Ion:	117	Resp:	36842
Ion	Ratio	Lower	Upper
117	100		
119	5.9	77.2	115.8#
121	0.0	24.2	36.2#



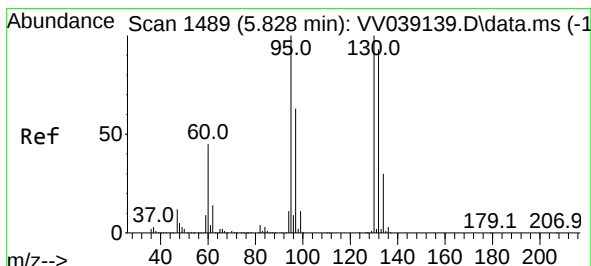
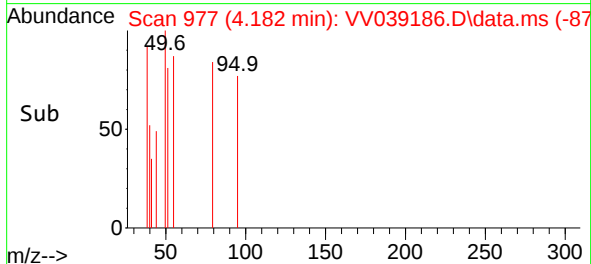
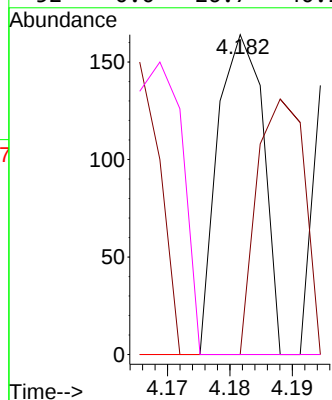


#41
Methacrylonitrile
Concen: 1.930 ug/l
RT: 4.182 min Scan# 91
Delta R.T. 0.029 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Instrument :
MSVOA_V
ClientSampleId :

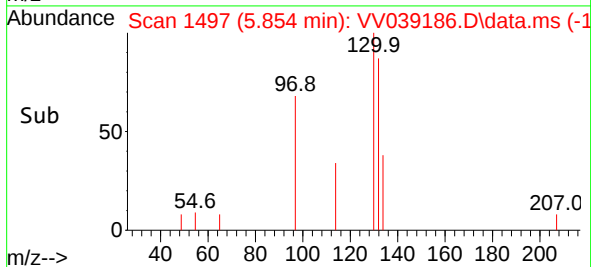
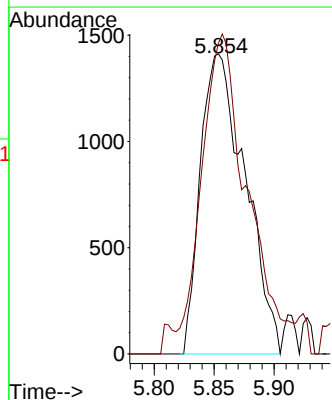
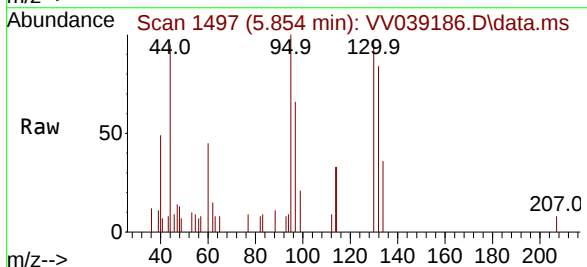


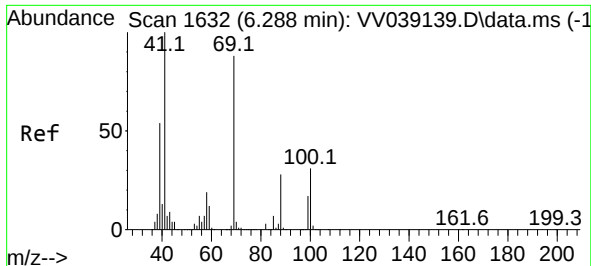
Tgt Ion: 41	Resp: 83
Ion Ratio	Lower Upper
41 100	
39 83.1	42.2 63.2#
67 0.0	67.9 101.9#
52 0.0	26.7 40.1#



#44
Trichloroethene
Concen: 0.639 ug/l
RT: 5.854 min Scan# 1497
Delta R.T. 0.026 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion:130	Resp:	3671	
Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	199.2





#49

1,4-Dioxane

Concen: 0.551 ug/l

RT: 6.307 min Scan# 1

Delta R.T. 0.019 min

Lab File: VV039186.D

Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_V

ClientSampleId :

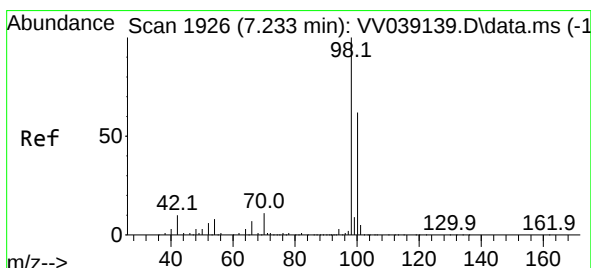
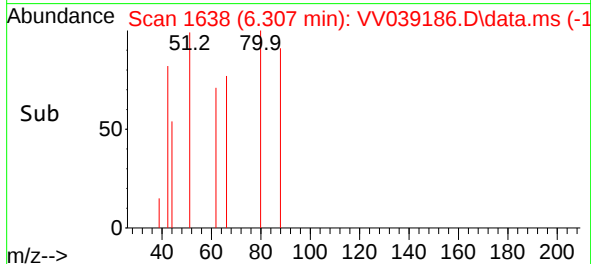
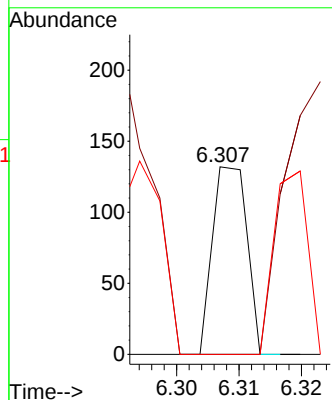
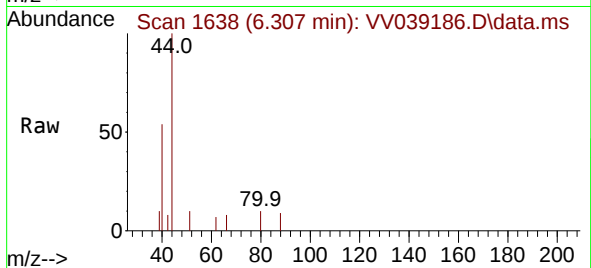
Tgt Ion: 88 Resp: 51

Ion Ratio Lower Upper

88 100

43 282.4 25.1 37.7#

58 94.1 53.6 80.4#



#50

Toluene-d8

Concen: 45.460 ug/l

RT: 7.239 min Scan# 1928

Delta R.T. 0.006 min

Lab File: VV039186.D

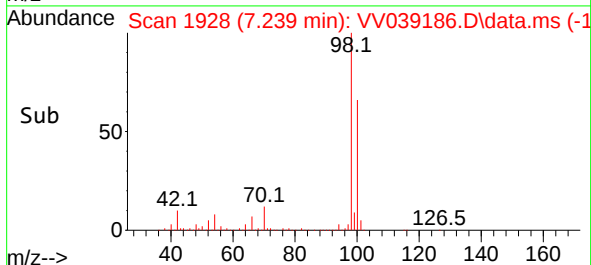
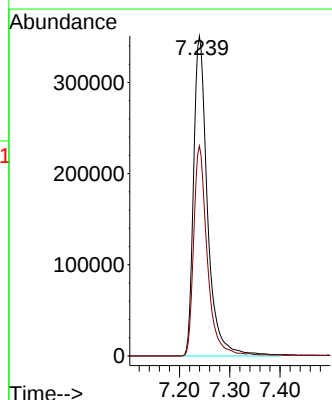
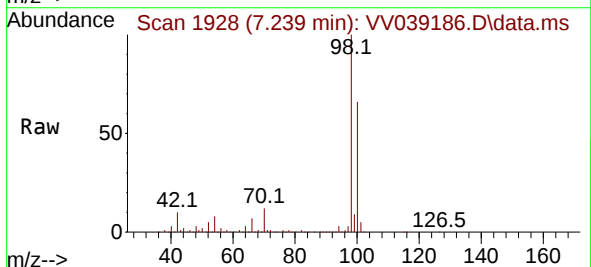
Acq: 25 Sep 2025 17:03

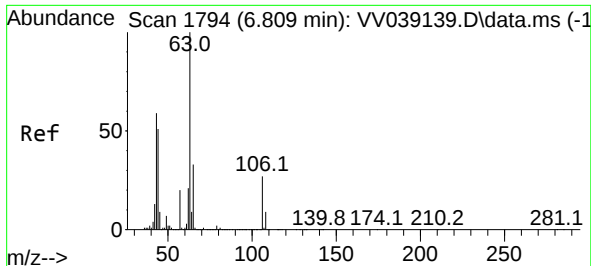
Tgt Ion: 98 Resp: 674823

Ion Ratio Lower Upper

98 100

100 63.7 52.2 78.2

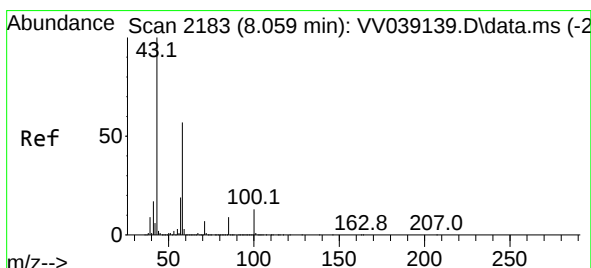
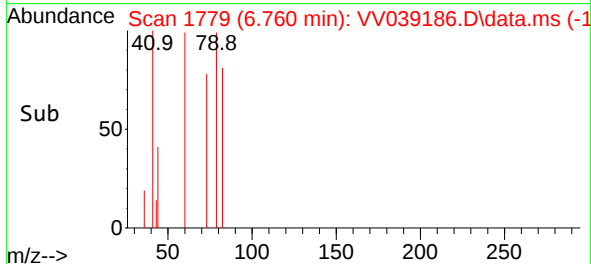
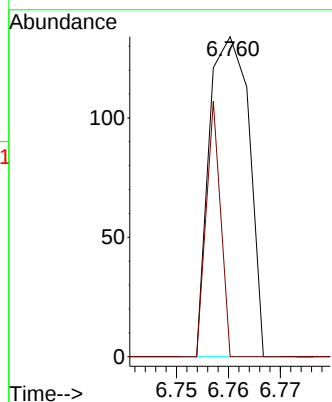
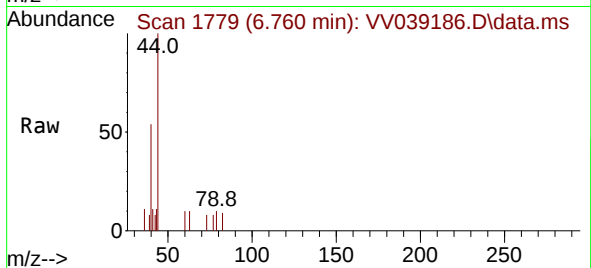




#58
2-Chloroethyl Vinyl ether
Concen: 9.638 ug/l
RT: 6.760 min Scan# 11
Delta R.T. -0.049 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

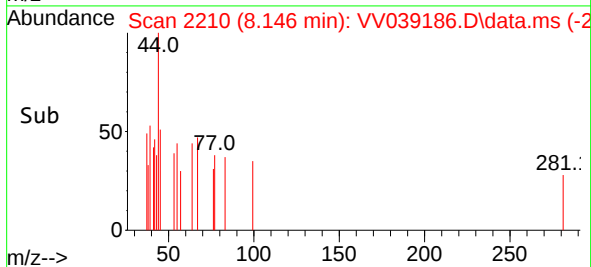
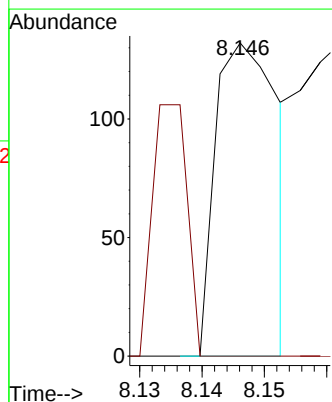
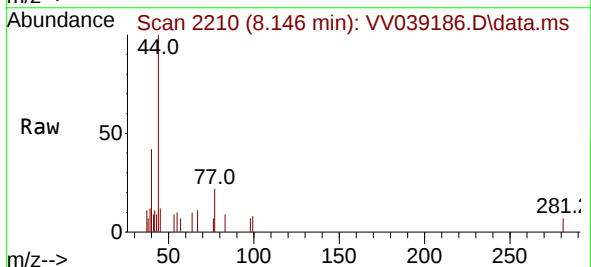
Instrument :
MSVOA_V
ClientSampleId :

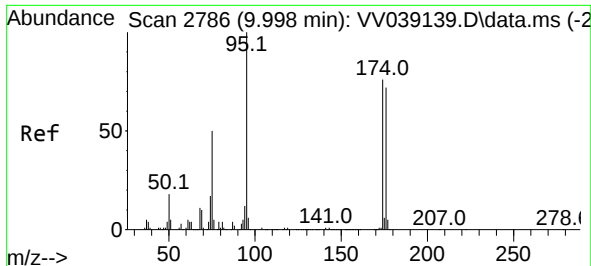
Tgt Ion: 63 Resp: 71
Ion Ratio Lower Upper
63 100
106 29.6 22.1 33.1



#59
2-Hexanone
Concen: 2.339 ug/l
RT: 8.146 min Scan# 2210
Delta R.T. 0.087 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
58 44.1 28.3 85.0

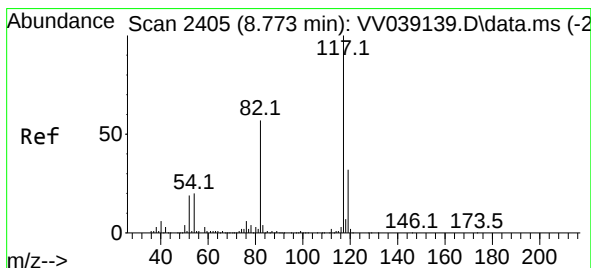
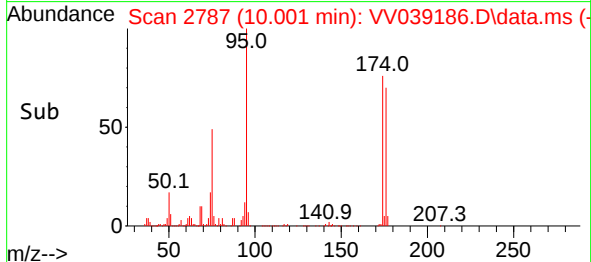
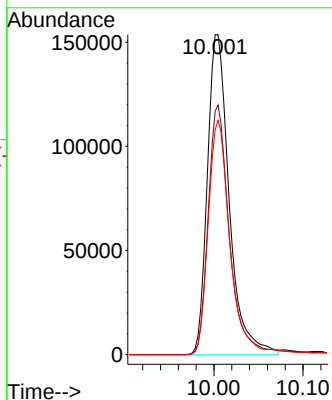
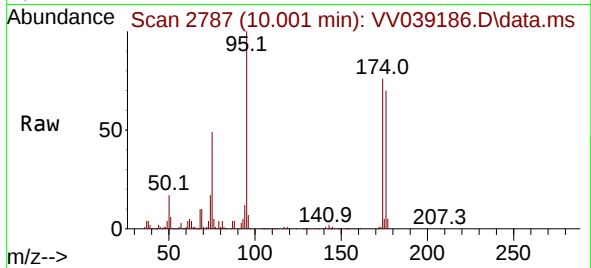




#62
4-Bromofluorobenzene
Concen: 42.770 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

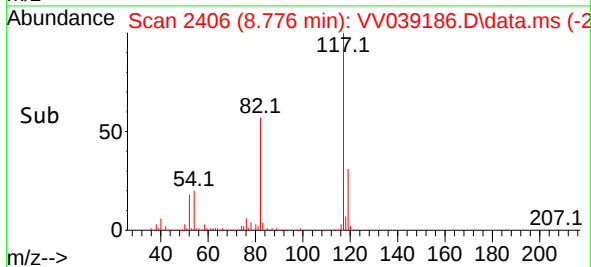
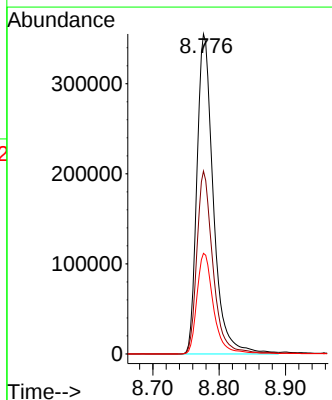
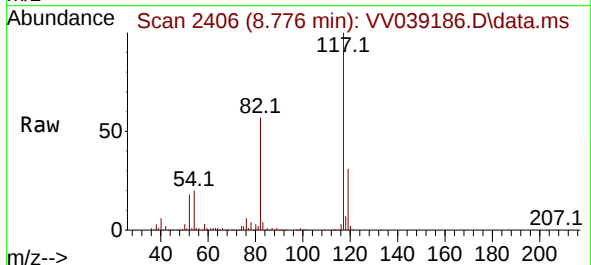
Instrument :
MSVOA_V
ClientSampleId :

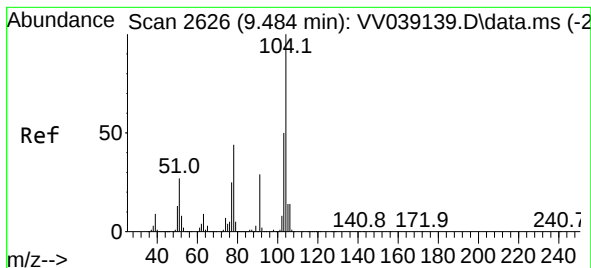
Tgt Ion: 95 Resp: 261365
Ion Ratio Lower Upper
95 100
174 77.3 0.0 150.4
176 71.8 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 117 Resp: 611801
Ion Ratio Lower Upper
117 100
82 57.2 45.4 68.2
119 31.5 25.6 38.4





#70

Styrene

Concen: 1.563 ug/l

RT: 9.638 min Scan# 2

Delta R.T. 0.154 min

Lab File: VV039186.D

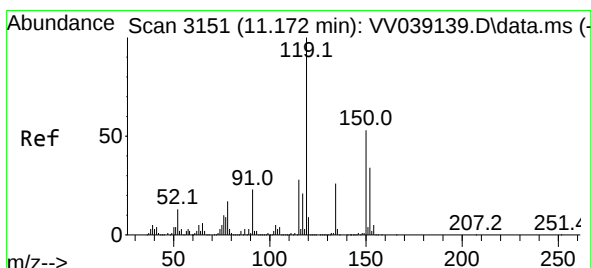
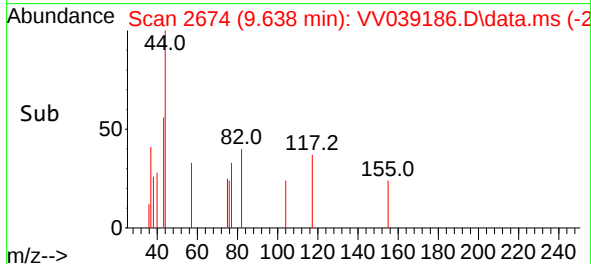
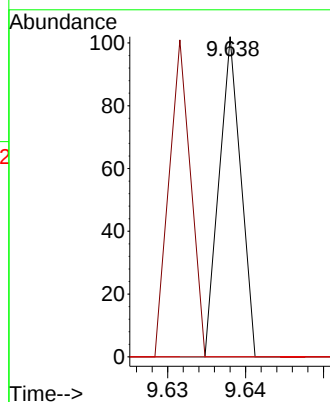
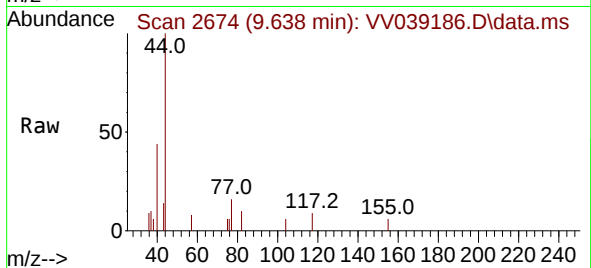
Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:104	Resp:	20
Ion Ratio	Lower	Upper
104	100	
78	95.0	39.8 59.6#
103	0.0	43.4 65.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

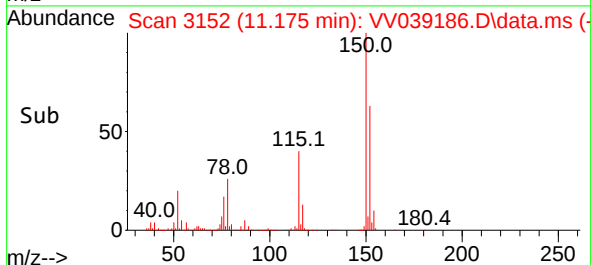
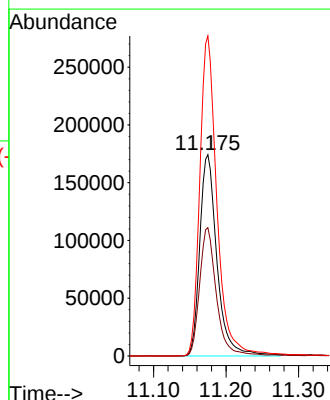
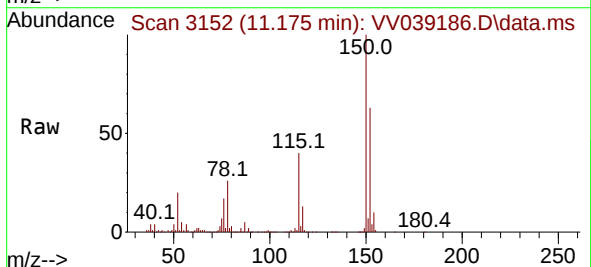
RT: 11.175 min Scan# 3152

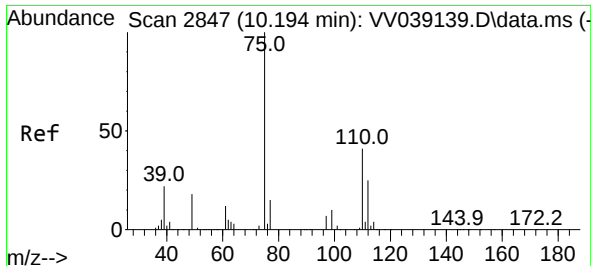
Delta R.T. 0.003 min

Lab File: VV039186.D

Acq: 25 Sep 2025 17:03

Tgt Ion:152	Resp:	288234
Ion Ratio	Lower	Upper
152	100	
115	61.9	44.8 134.4
150	158.0	0.0 353.8

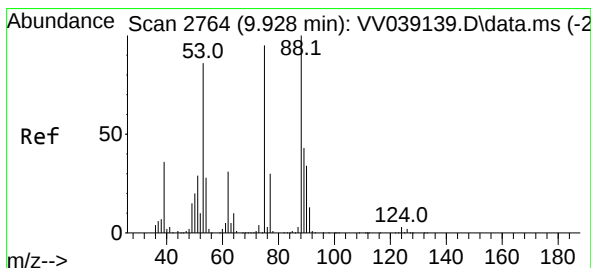
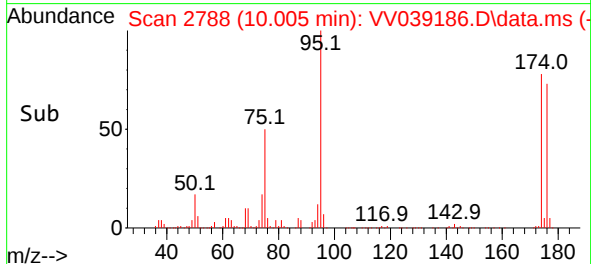
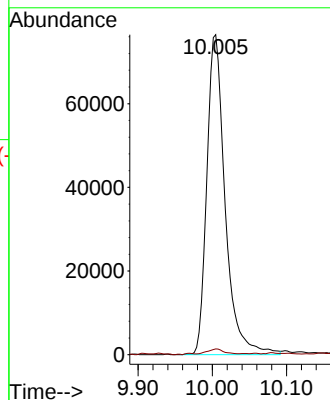
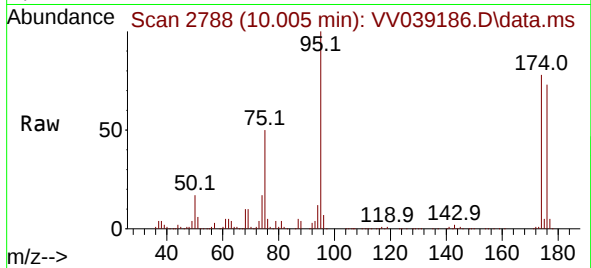




#76
 1,2,3-Trichloropropane
 Concen: 19.953 ug/l
 RT: 10.005 min Scan# 21
 Delta R.T. -0.190 min
 Lab File: VV039186.D
 Acq: 25 Sep 2025 17:03

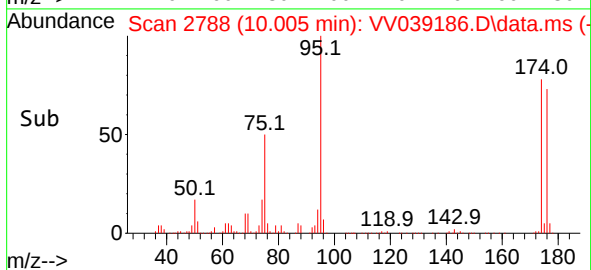
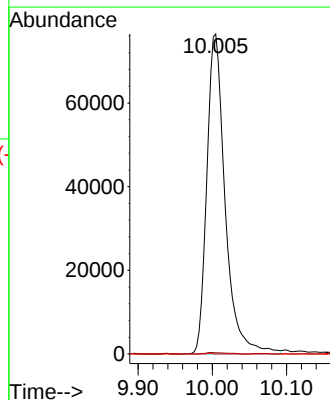
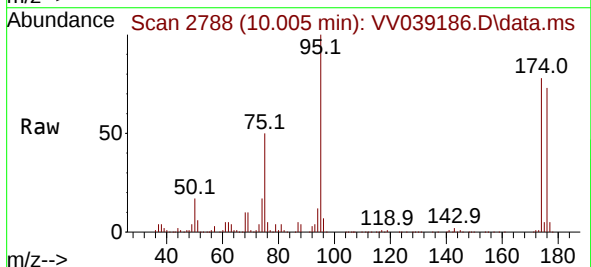
Instrument :
 MSVOA_V
 ClientSampleId :

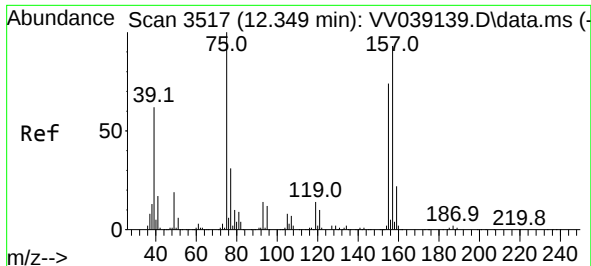
Tgt Ion: 75 Resp: 130946
 Ion Ratio Lower Upper
 75 100
 77 1.3 11.3 33.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 47.902 ug/l
 RT: 10.005 min Scan# 2788
 Delta R.T. 0.077 min
 Lab File: VV039186.D
 Acq: 25 Sep 2025 17:03

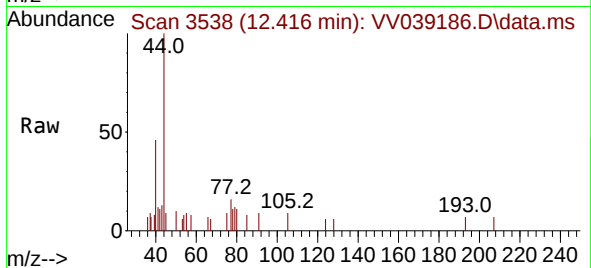
Tgt Ion: 75 Resp: 130946
 Ion Ratio Lower Upper
 75 100
 53 0.5 72.5 108.7#
 89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.416 min Scan# 31
 Delta R.T. 0.067 min
 Lab File: VV039186.D
 Acq: 25 Sep 2025 17:03

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	75	Resp:	73
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.6	115.8#
157	0.0	49.5	148.3#

