

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039324.D
 Acq On : 04 Nov 2025 18:54
 Operator : SY/MD
 Sample : Q3534-04
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:41:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:01:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.600	168	875532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1648833	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1570855	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	731965	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	714085	57.399	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	114.800%
35) Dibromofluoromethane	4.500	113	633531	48.765	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	97.520%
50) Toluene-d8	7.236	98	2040496	46.168	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	92.340%
62) 4-Bromofluorobenzene	9.998	95	726818	46.176	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	92.360%

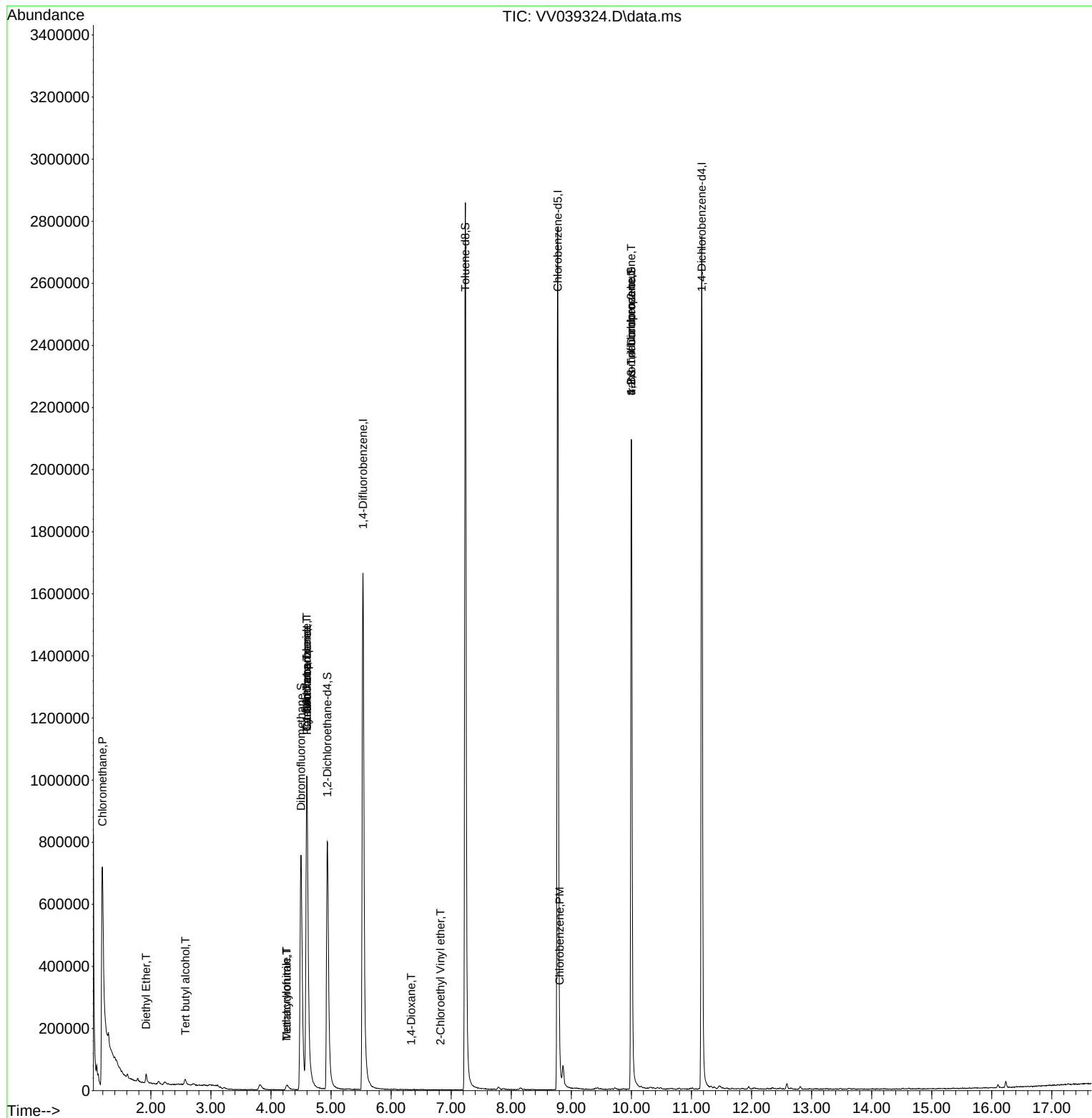
Target Compounds			Qvalue			
3) Chloromethane	1.195	50	29799	2.586 ug/l #	44	
6) Chloroethane	1.806	64	3635	Below Cal #	48	
8) Diethyl Ether	1.921	74	11217	1.546 ug/l	96	
11) Tert butyl alcohol	2.574	59	10906	4.523 ug/l #	75	
13) Acrolein	2.002	56	285	Below Cal	88	
16) Acetone	2.124	43	8896	Below Cal	100	
20) Methylene Chloride	2.452	84	470	Below Cal #	81	
29) Tetrahydrofuran	4.262	42	13566	2.789 ug/l #	60	
31) Cyclohexane	4.597	56	17263	1.053 ug/l #	1	
36) 1,1-Dichloropropene	4.597	75	72899	4.468 ug/l #	48	
38) Carbon Tetrachloride	4.597	117	92222	4.639 ug/l #	18	
41) Methacrylonitrile	4.259	41	6700	2.483 ug/l #	35	
49) 1,4-Dioxane	6.333	88	112	0.581 ug/l #	1	
58) 2-Chloroethyl Vinyl ether	6.822	63	42	8.472 ug/l #	45	
65) Chlorobenzene	8.805	112	11439	0.308 ug/l	91	
76) 1,2,3-Trichloropropane	9.998	75	350658	24.003 ug/l #	54	
81) trans-1,4-Dichloro-2-b...	9.998	75	350658	60.618 ug/l #	14	

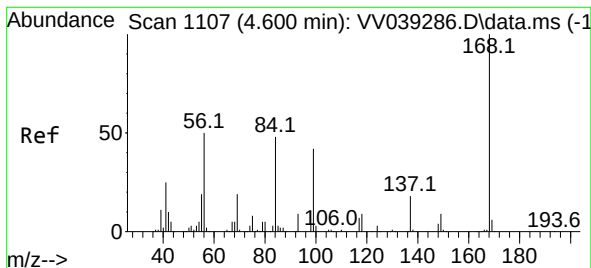
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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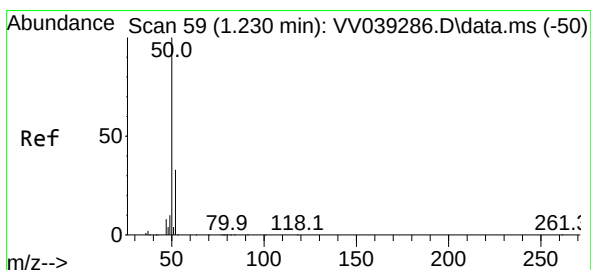
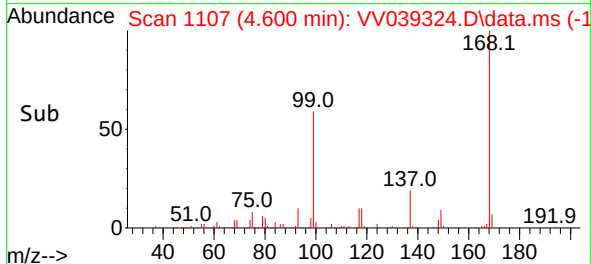
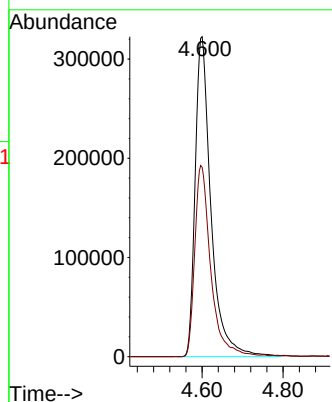
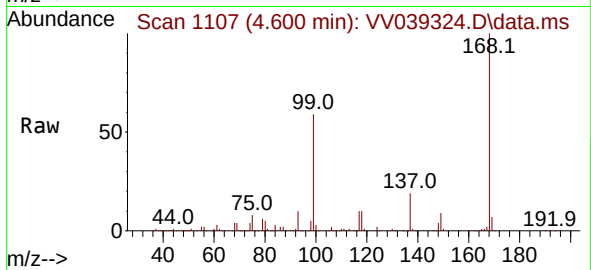




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

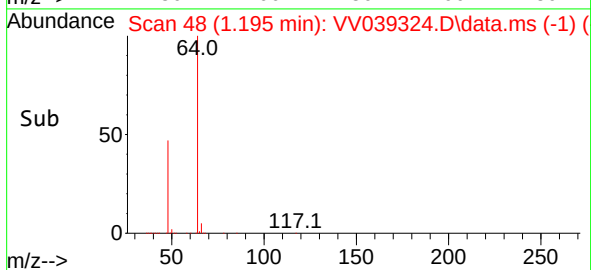
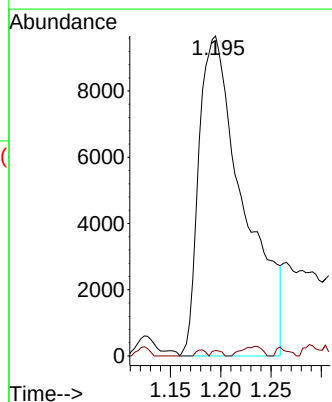
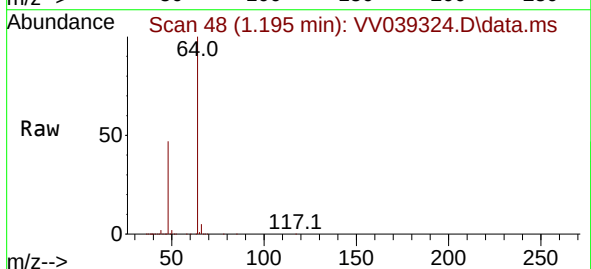
Instrument :
MSVOA_V
ClientSampleId :

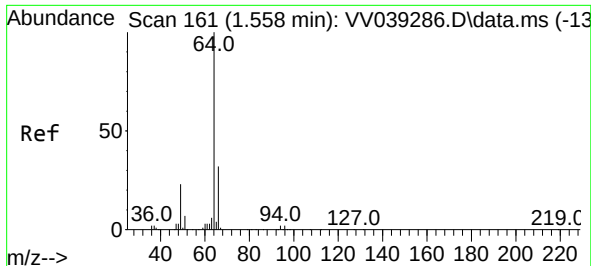
Tgt Ion:168 Resp: 875532
Ion Ratio Lower Upper
168 100
99 59.2 46.6 70.0



#3
Chloromethane
Concen: 2.586 ug/l
RT: 1.195 min Scan# 48
Delta R.T. -0.035 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

Tgt Ion: 50 Resp: 29799
Ion Ratio Lower Upper
50 100
52 1.7 26.6 39.8#

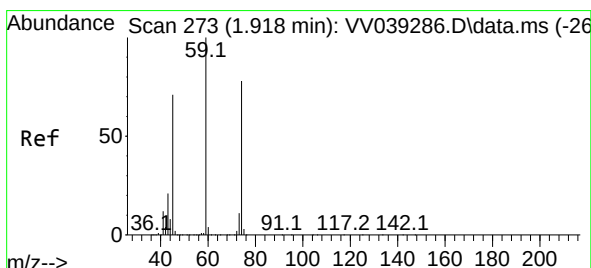
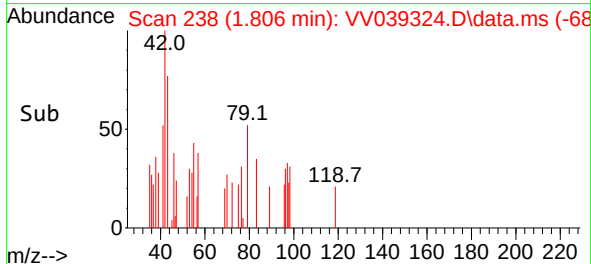
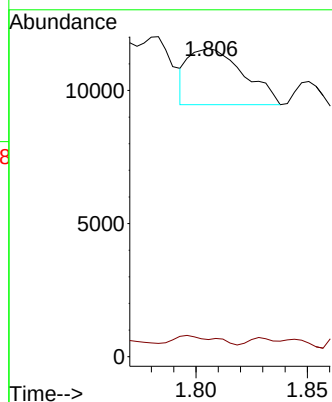
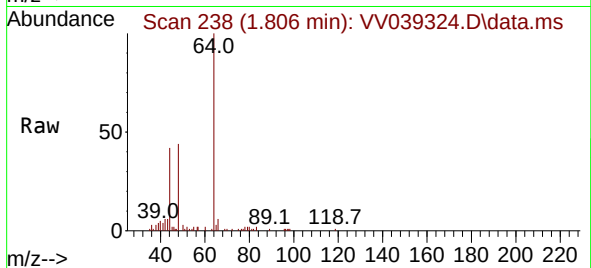




#6
Chloroethane
Concen: Below Cal
RT: 1.806 min Scan# 21
Delta R.T. 0.248 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

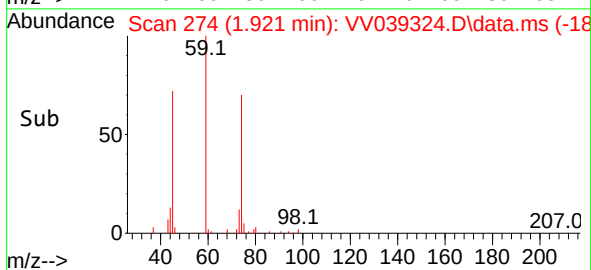
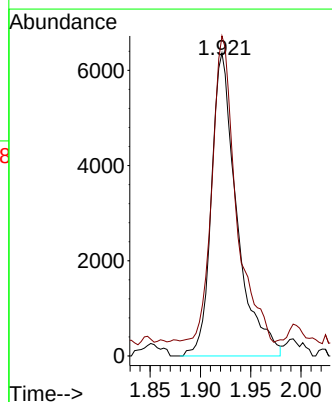
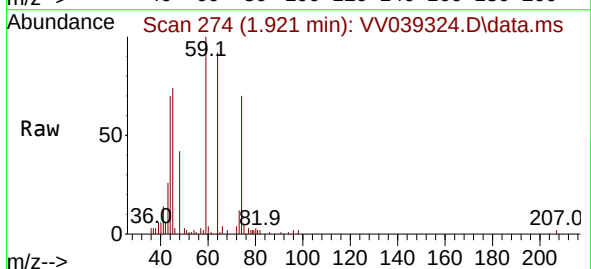
Instrument :
MSVOA_V
ClientSampleId :

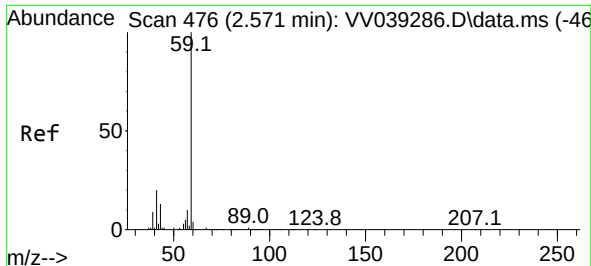
Tgt Ion: 64 Resp: 3635
Ion Ratio Lower Upper
64 100
66 2.8 25.7 38.5#



#8
Diethyl Ether
Concen: 1.546 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

Tgt Ion: 74 Resp: 11217
Ion Ratio Lower Upper
74 100
45 95.2 45.9 137.7

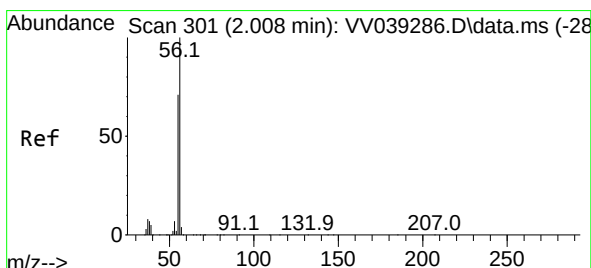
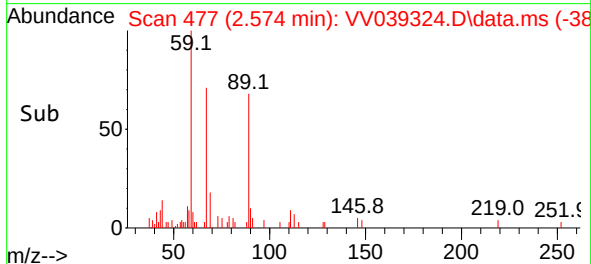
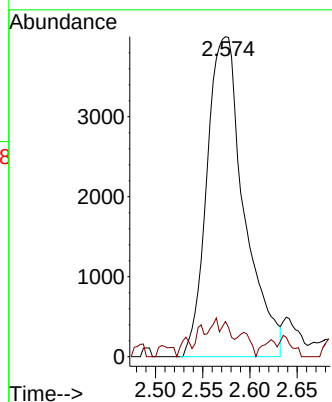
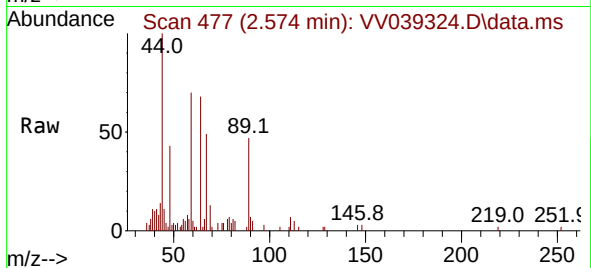




#11
Tert butyl alcohol
Concen: 4.523 ug/l
RT: 2.574 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

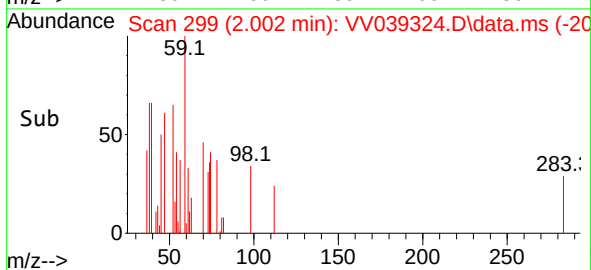
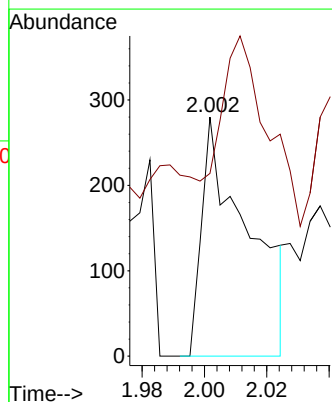
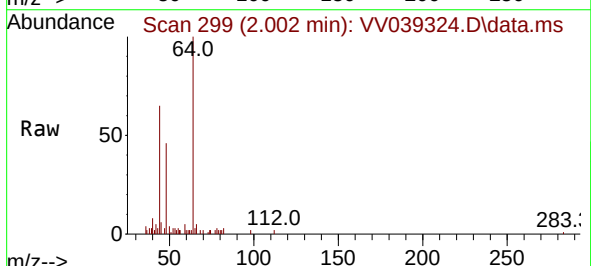
Instrument :
MSVOA_V
ClientSampleId :

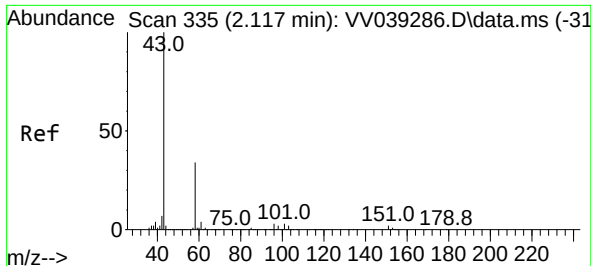
Tgt Ion: 59 Resp: 10906
Ion Ratio Lower Upper
59 100
57 0.7 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.002 min Scan# 299
Delta R.T. -0.006 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

Tgt Ion: 56 Resp: 285
Ion Ratio Lower Upper
56 100
55 80.4 56.2 84.4

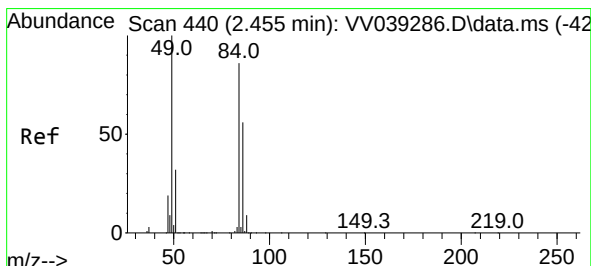
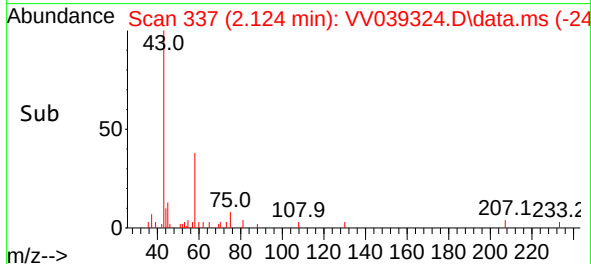
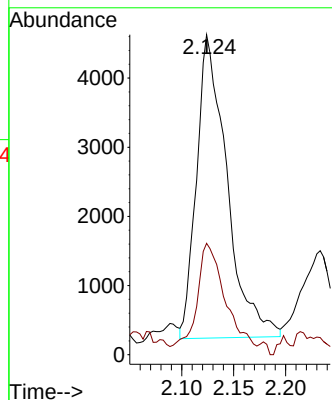
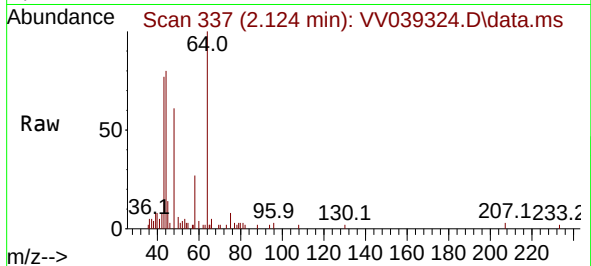




#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 31
Delta R.T. 0.007 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

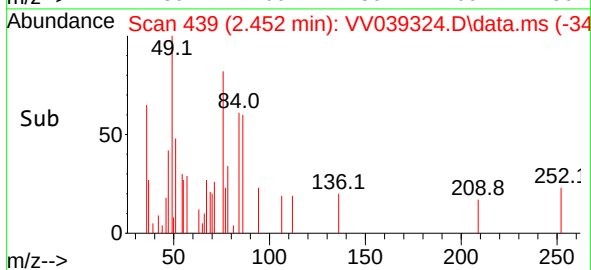
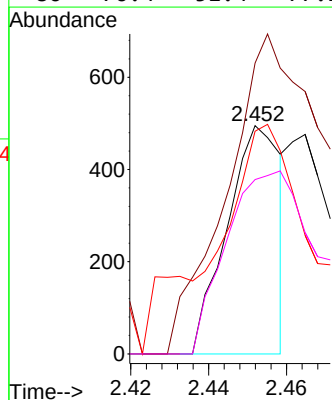
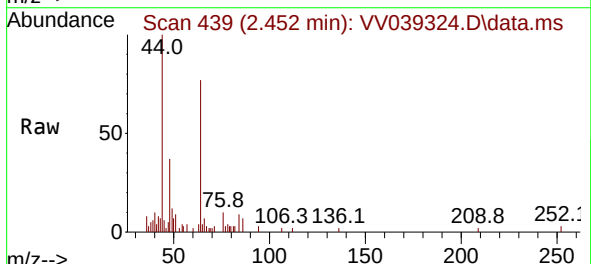
Instrument :
MSVOA_V
ClientSampleId :

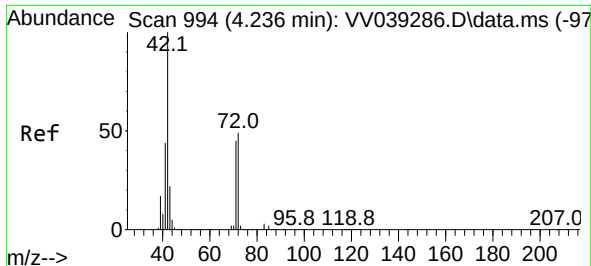
Tgt Ion: 43 Resp: 8896
Ion Ratio Lower Upper
43 100
58 34.1 27.5 41.3



#20
Methylene Chloride
Concen: Below Cal
RT: 2.452 min Scan# 439
Delta R.T. -0.003 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

Tgt Ion: 84 Resp: 470
Ion Ratio Lower Upper
84 100
49 102.4 92.6 139.0
51 63.6 29.6 44.4#
86 76.4 51.4 77.2





#29

Tetrahydrofuran

Concen: 2.789 ug/l

RT: 4.262 min Scan# 1106

Delta R.T. 0.026 min

Lab File: VV039324.D

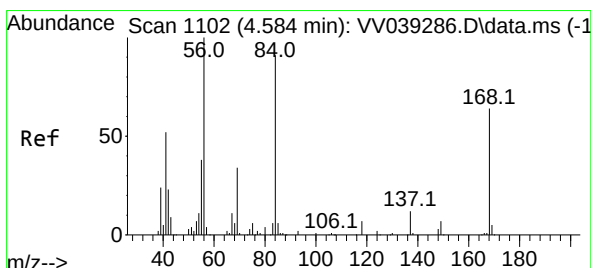
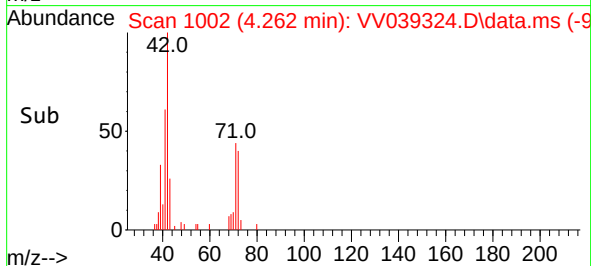
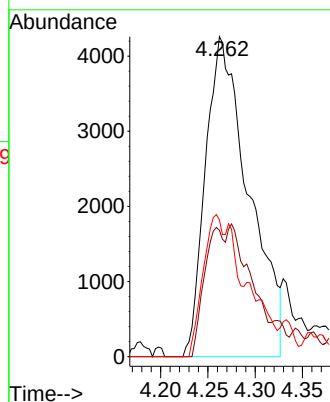
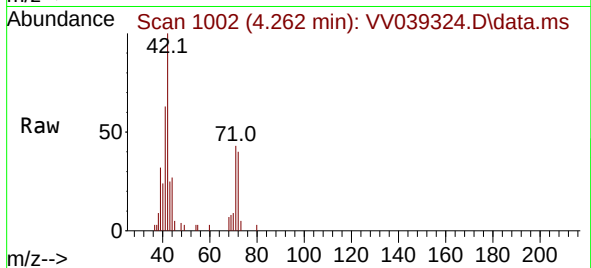
Acq: 04 Nov 2025 18:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 42	Resp: 13566
Ion Ratio	Lower Upper
42	100
72	19.4 39.8 59.8#
71	22.0 36.5 54.7#



#31

Cyclohexane

Concen: 1.053 ug/l

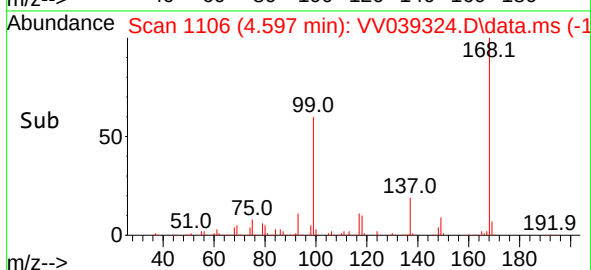
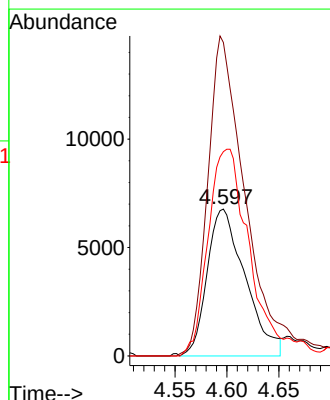
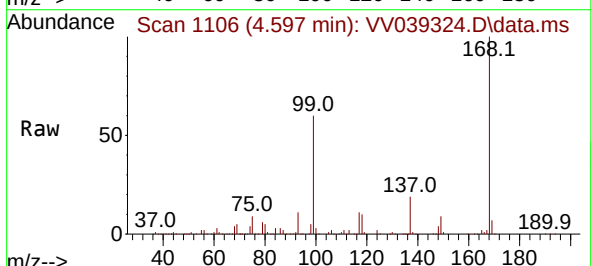
RT: 4.597 min Scan# 1106

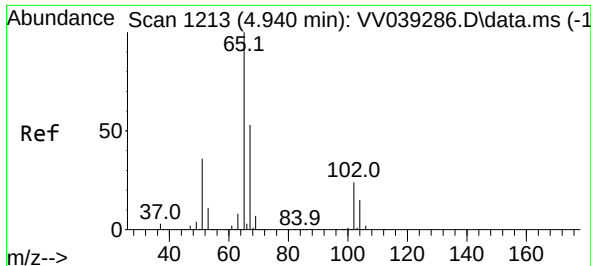
Delta R.T. 0.013 min

Lab File: VV039324.D

Acq: 04 Nov 2025 18:54

Tgt Ion: 56	Resp: 17263
Ion Ratio	Lower Upper
56	100
69	211.9 27.4 41.0#
84	139.1 72.8 109.2#





#33

1,2-Dichloroethane-d4

Concen: 57.399 ug/l

RT: 4.937 min Scan# 11

Delta R.T. -0.003 min

Lab File: VV039324.D

Acq: 04 Nov 2025 18:54

Instrument :

MSVOA_V

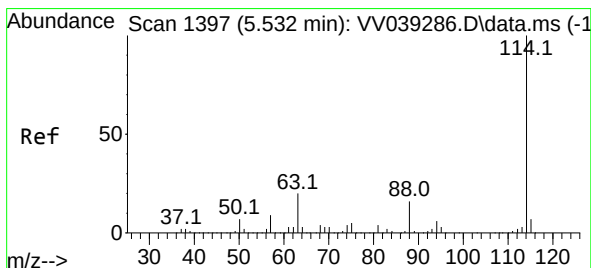
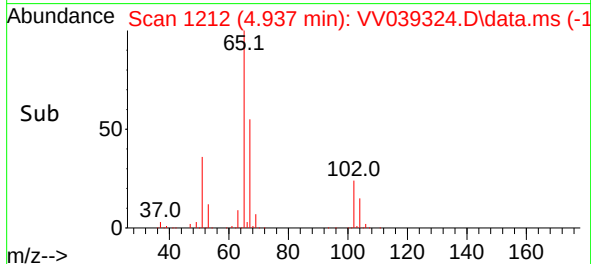
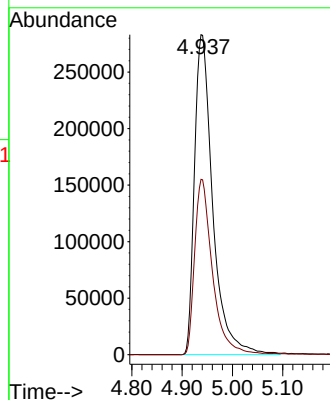
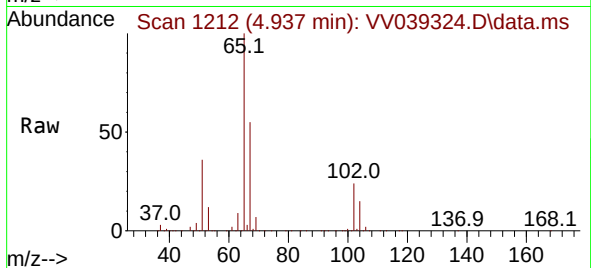
ClientSampleId :

Tgt Ion: 65 Resp: 714085

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VV039324.D

Acq: 04 Nov 2025 18:54

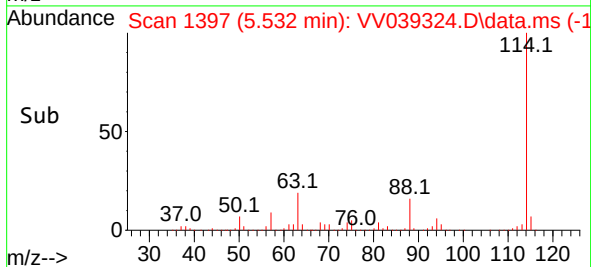
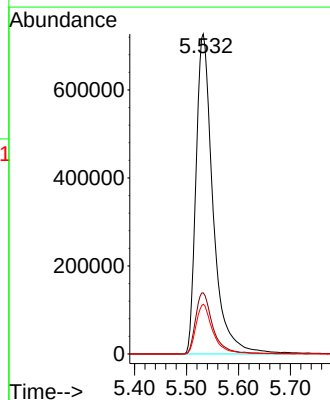
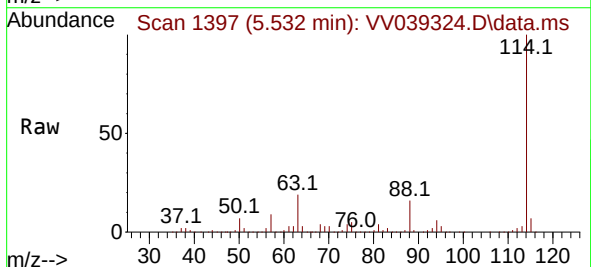
Tgt Ion: 114 Resp: 1648833

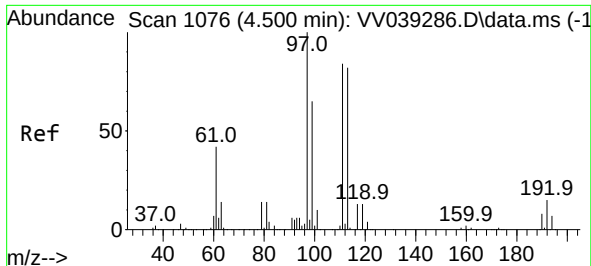
Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 15.5 0.0 31.6

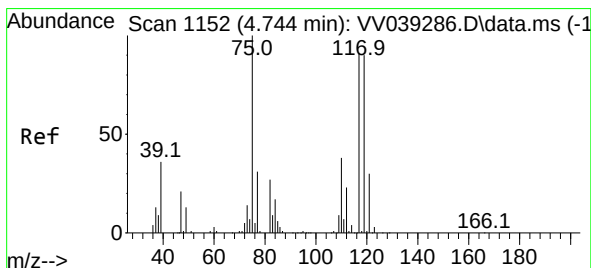
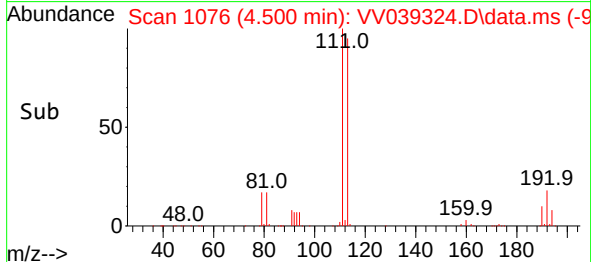
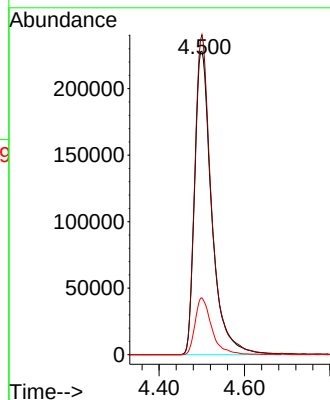
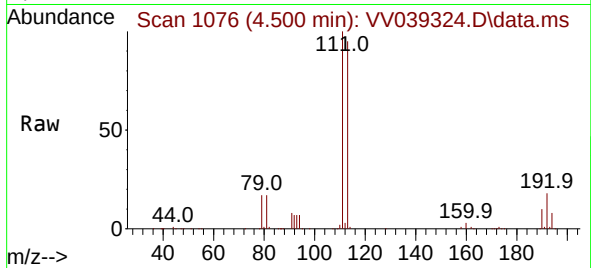




#35
Dibromofluoromethane
Concen: 48.765 ug/l
RT: 4.500 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

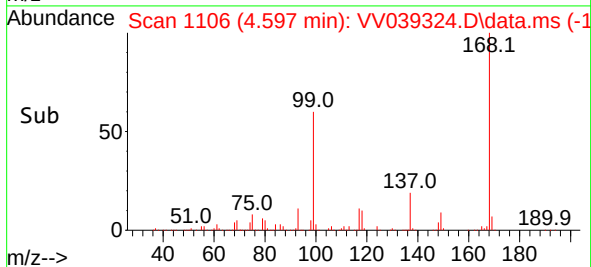
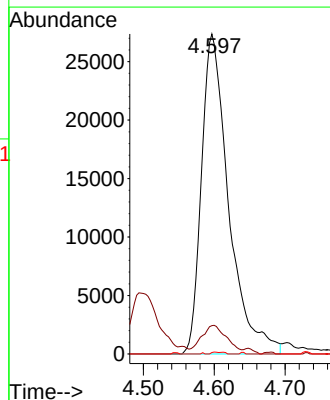
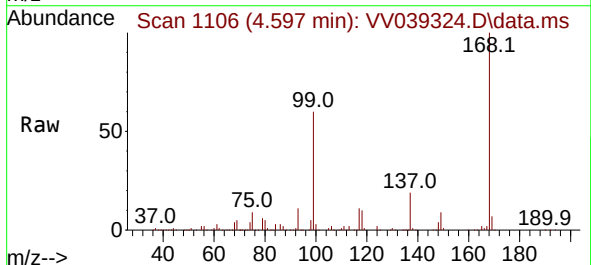
Instrument :
MSVOA_V
ClientSampleId :

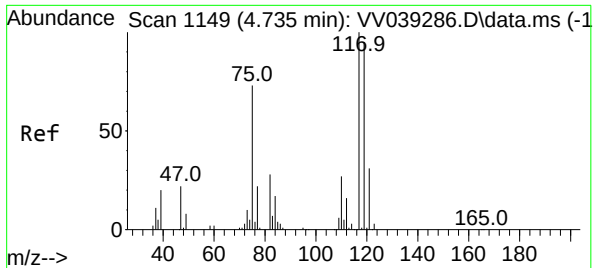
Tgt Ion:113 Resp: 633531
Ion Ratio Lower Upper
113 100
111 103.2 82.0 123.0
192 18.2 14.3 21.5



#36
1,1-Dichloropropene
Concen: 4.468 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.148 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

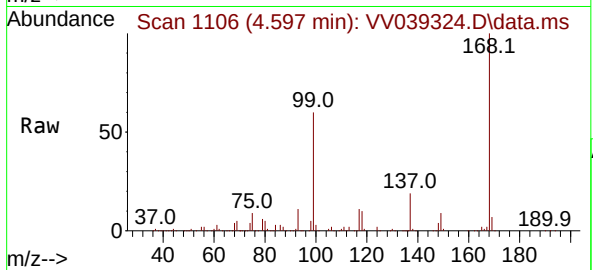
Tgt Ion: 75 Resp: 72899
Ion Ratio Lower Upper
75 100
110 8.4 18.9 56.7#
77 0.1 24.1 36.1#



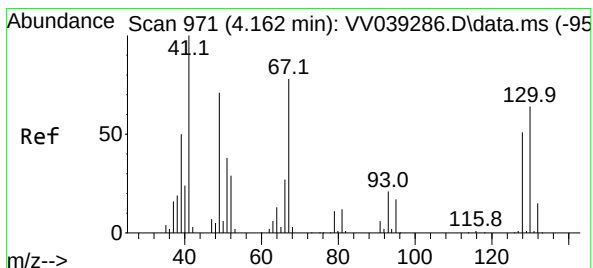
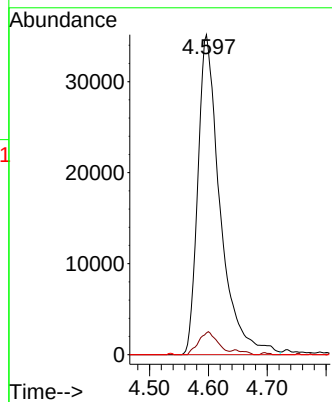
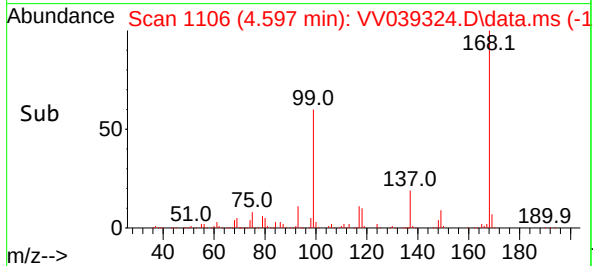


#38
Carbon Tetrachloride
Concen: 4.639 ug/l
RT: 4.597 min Scan# 1149
Delta R.T. -0.138 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

Instrument :
MSVOA_V
ClientSampleId :

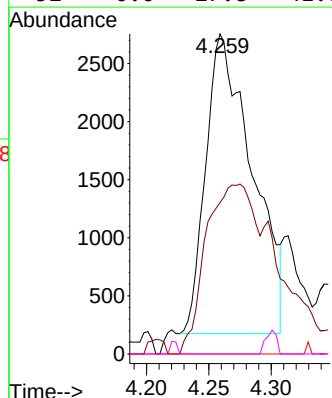
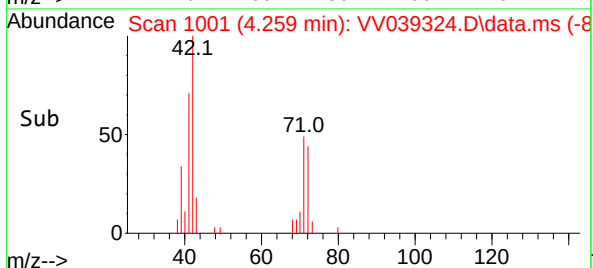
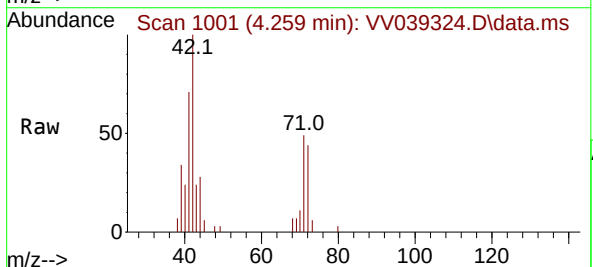


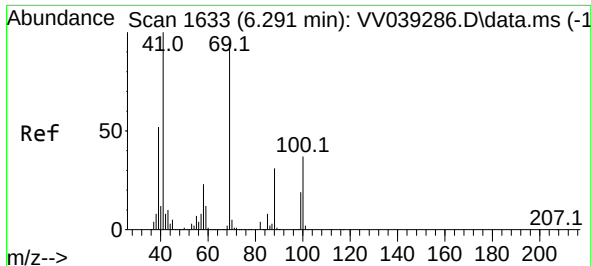
Tgt Ion:117 Resp: 92222
Ion Ratio Lower Upper
117 100
119 6.8 75.9 113.9#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 2.483 ug/l
RT: 4.259 min Scan# 1001
Delta R.T. 0.097 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

Tgt Ion: 41 Resp: 6700
Ion Ratio Lower Upper
41 100
39 59.7 40.9 61.3
67 0.0 73.1 109.7#
52 0.0 27.8 41.6#





#49

1,4-Dioxane

Concen: 0.581 ug/l

RT: 6.333 min Scan# 1

Delta R.T. 0.042 min

Lab File: VV039324.D

Acq: 04 Nov 2025 18:54

Instrument :

MSVOA_V

ClientSampleId :

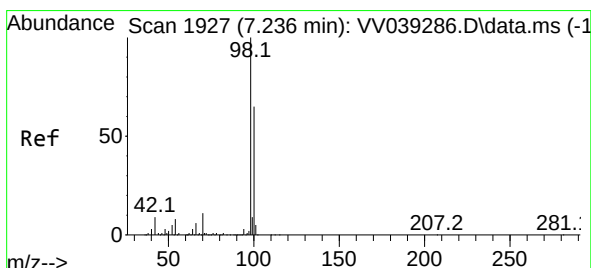
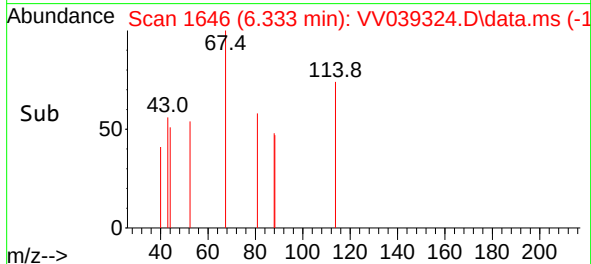
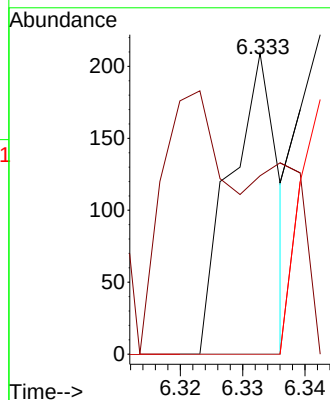
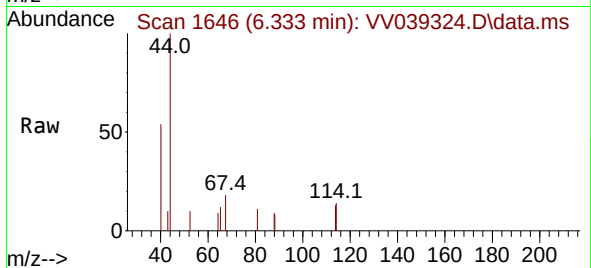
Tgt Ion: 88 Resp: 112

Ion Ratio Lower Upper

88 100

43 122.3 24.1 36.1#

58 0.0 57.6 86.4#



#50

Toluene-d8

Concen: 46.168 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.000 min

Lab File: VV039324.D

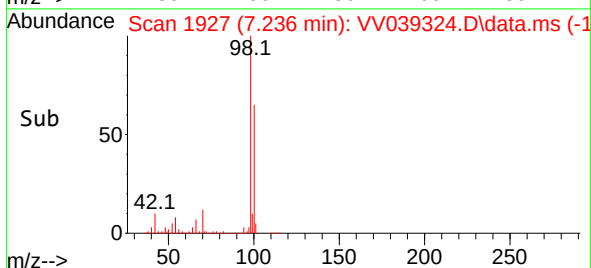
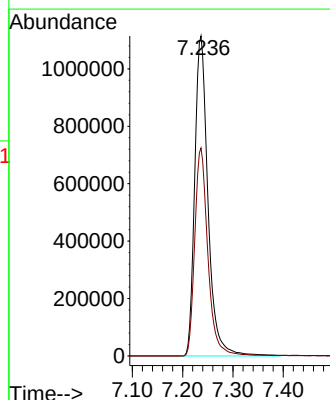
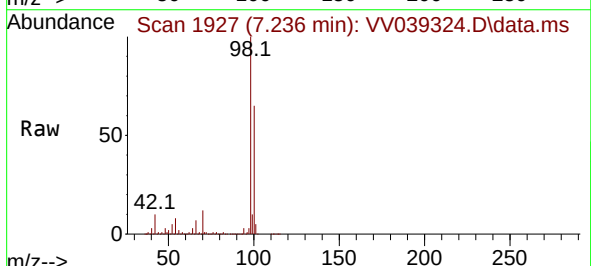
Acq: 04 Nov 2025 18:54

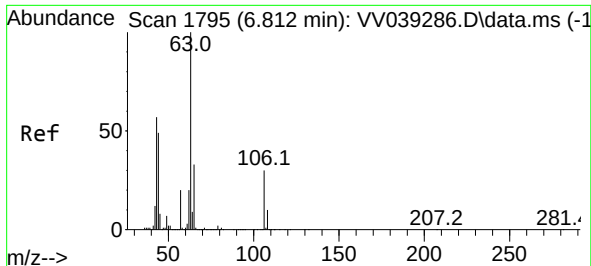
Tgt Ion: 98 Resp: 2040496

Ion Ratio Lower Upper

98 100

100 64.3 52.8 79.2

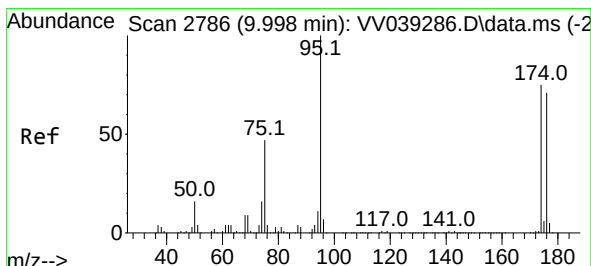
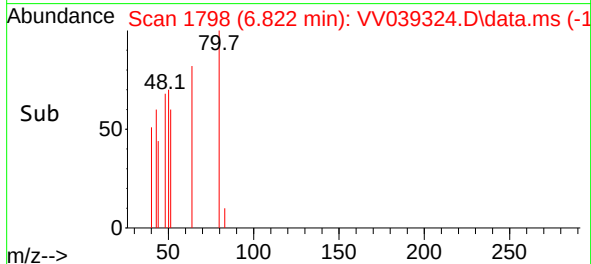
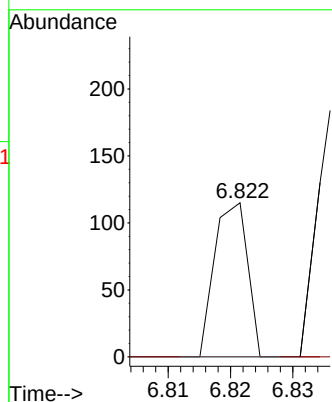
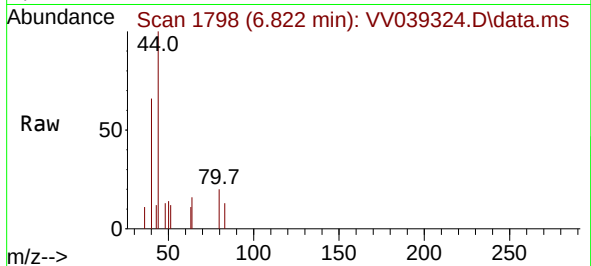




#58
2-Chloroethyl Vinyl ether
Concen: 8.472 ug/l
RT: 6.822 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

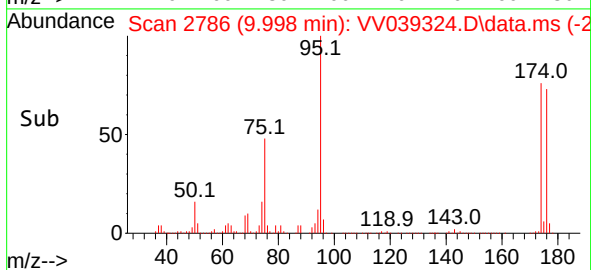
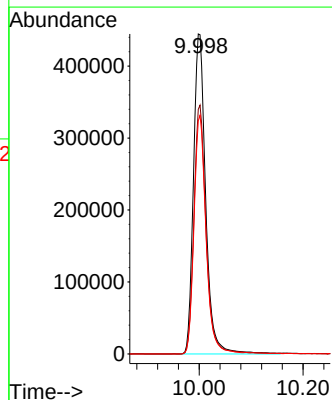
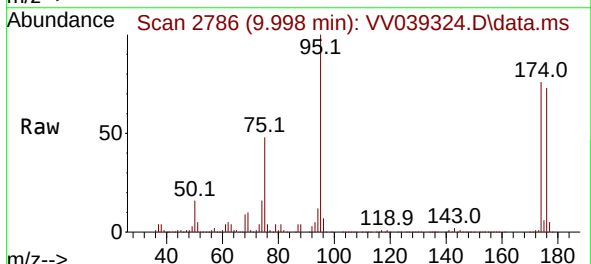
Instrument :
MSVOA_V
ClientSampleId :

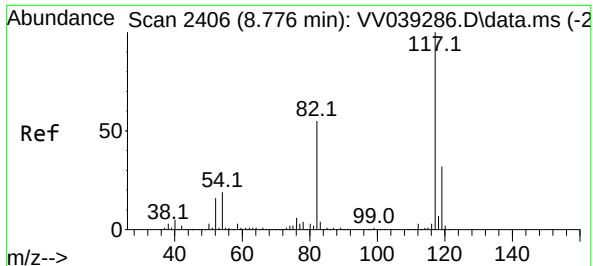
Tgt Ion: 63 Resp: 42
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 46.176 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

Tgt Ion: 95 Resp: 726818
Ion Ratio Lower Upper
95 100
174 77.3 0.0 153.6
176 73.3 0.0 146.0

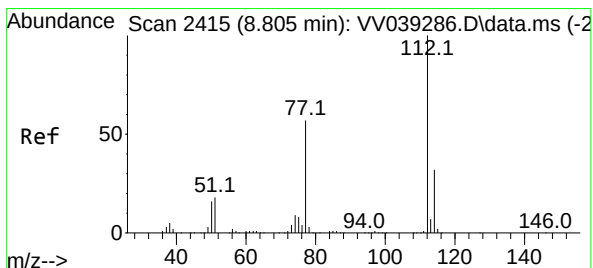
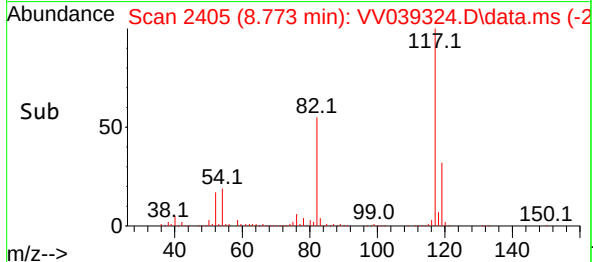
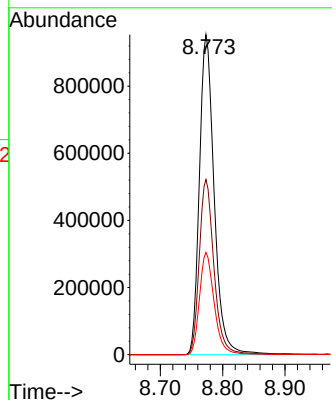
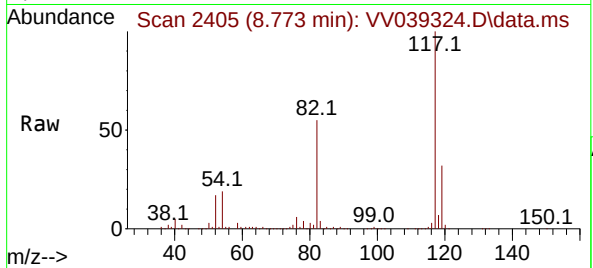




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2406
Delta R.T. -0.003 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

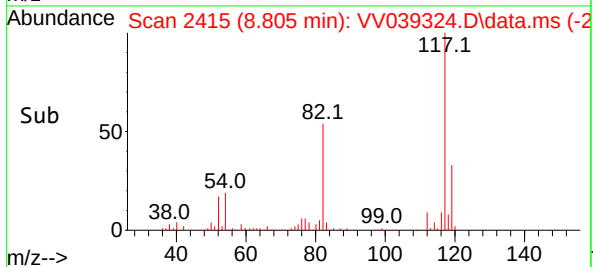
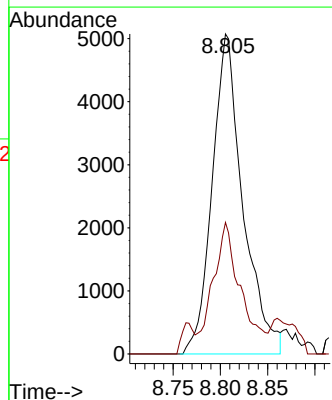
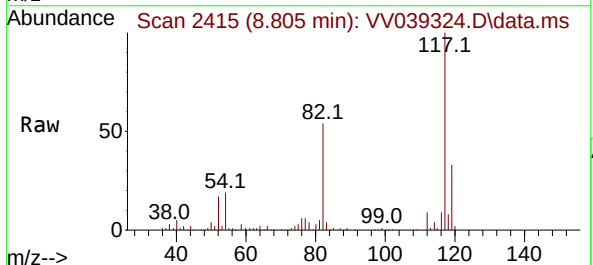
Instrument :
MSVOA_V
ClientSampleId :

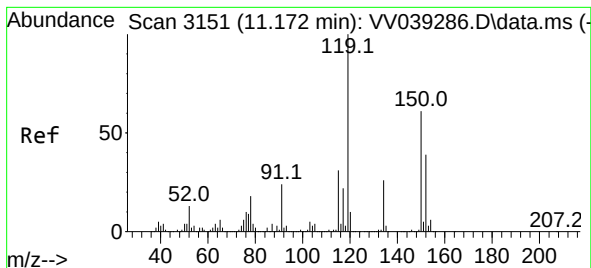
Tgt Ion:117 Resp: 1570855
Ion Ratio Lower Upper
117 100
82 54.8 43.8 65.8
119 31.9 25.8 38.6



#65
Chlorobenzene
Concen: 0.308 ug/l
RT: 8.805 min Scan# 2415
Delta R.T. 0.000 min
Lab File: VV039324.D
Acq: 04 Nov 2025 18:54

Tgt Ion:112 Resp: 11439
Ion Ratio Lower Upper
112 100
114 37.1 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VV039324.D

Acq: 04 Nov 2025 18:54

Instrument :

MSVOA_V

ClientSampleId :

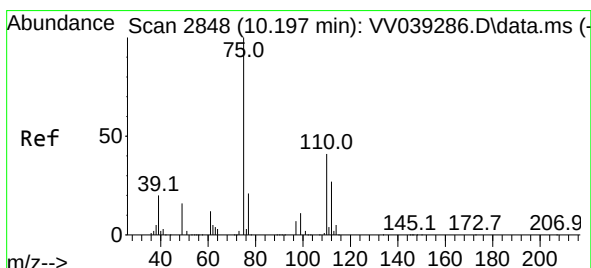
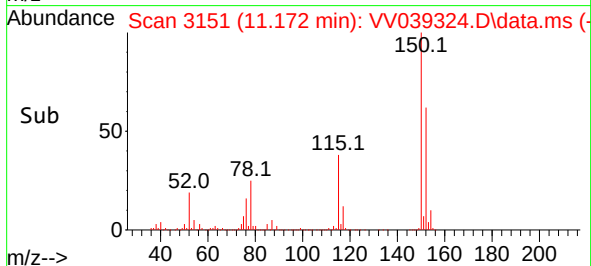
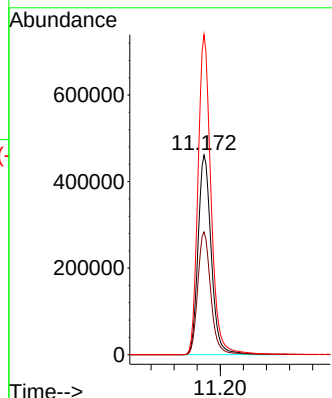
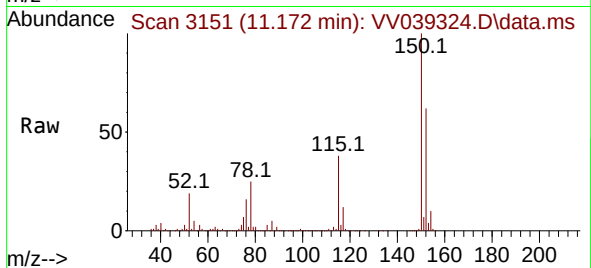
Tgt Ion:152 Resp: 731965

Ion Ratio Lower Upper

152 100

115 60.8 42.3 126.8

150 157.5 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 24.003 ug/l

RT: 9.998 min Scan# 2786

Delta R.T. -0.199 min

Lab File: VV039324.D

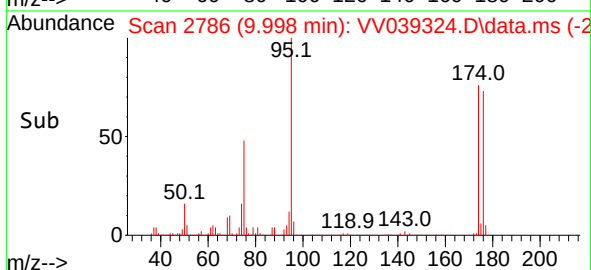
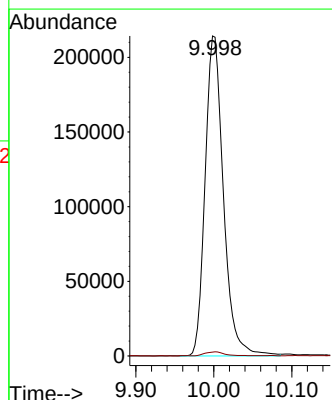
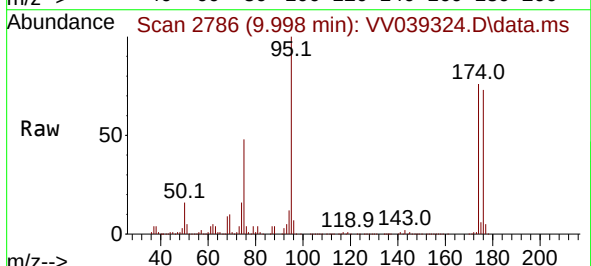
Acq: 04 Nov 2025 18:54

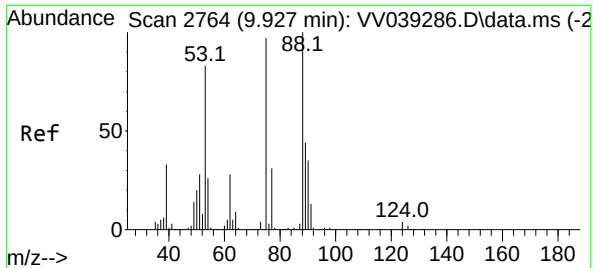
Tgt Ion: 75 Resp: 350658

Ion Ratio Lower Upper

75 100

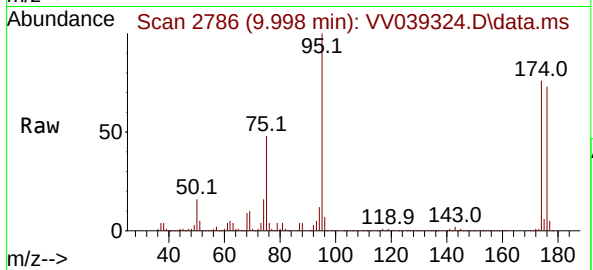
77 1.3 12.2 36.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.618 ug/l
 RT: 9.998 min Scan# 21
 Delta R.T. 0.071 min
 Lab File: VV039324.D
 Acq: 04 Nov 2025 18:54

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 75 Resp: 350658
 Ion Ratio Lower Upper
 75 100
 53 0.3 69.9 104.9#
 89 0.0 37.4 56.0#

