

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV102125\
 Data File : VV039292.D
 Acq On : 21 Oct 2025 09:35
 Operator : SY/MD
 Sample : VV1021MBL01
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV1021MBL01

Quant Time: Oct 24 04:37:06 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)

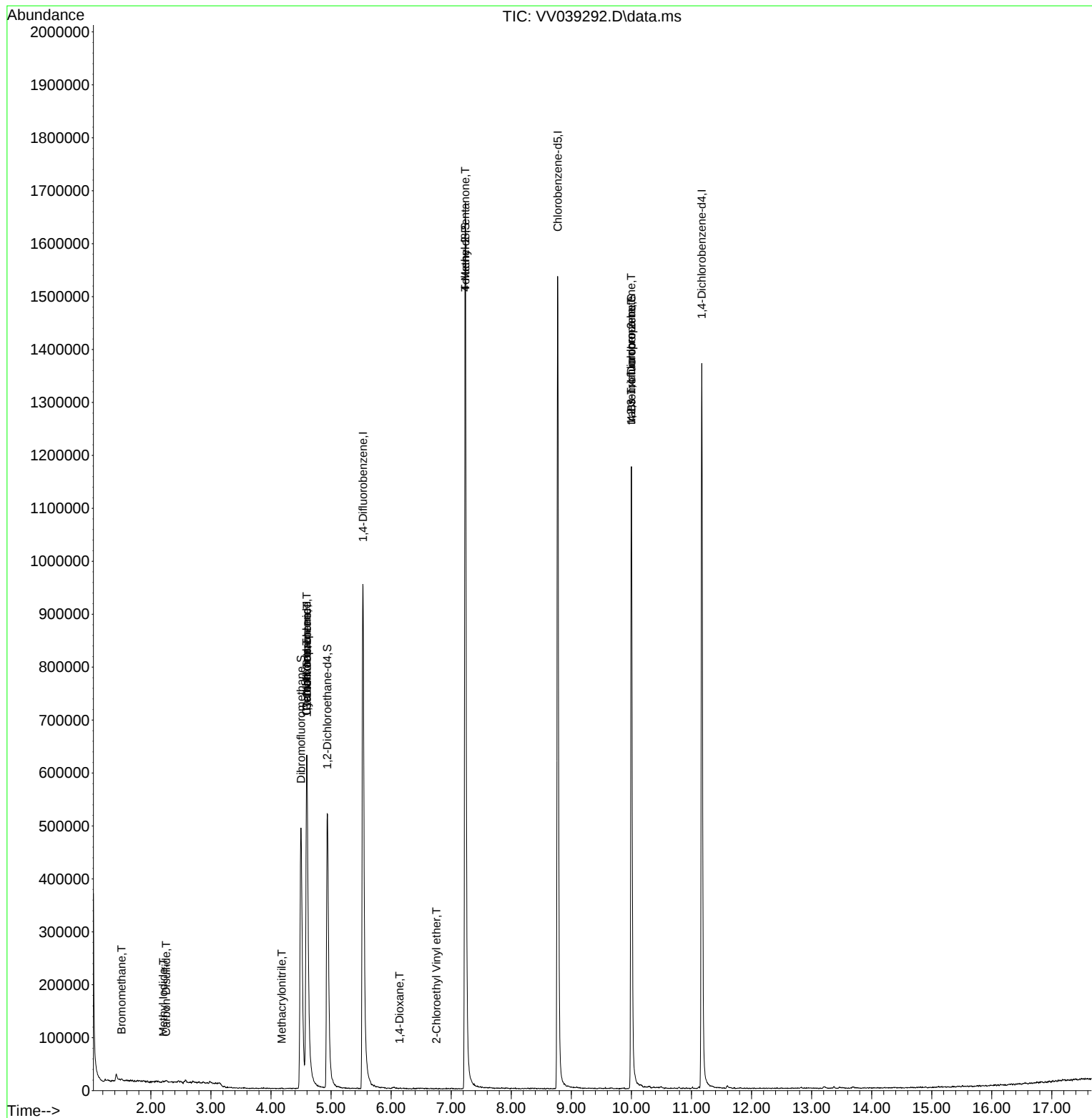
Internal Standards						
1) Pentafluorobenzene	4.596	168	552746	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	957439	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	890597	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	381709	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	466533	59.399	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 118.800%#			
35) Dibromofluoromethane	4.500	113	418389	55.460	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 110.920%			
50) Toluene-d8	7.236	98	1226026	47.772	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 95.540%			
62) 4-Bromofluorobenzene	10.001	95	412657	45.148	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 90.300%			
Target Compounds					Qvalue	
5) Bromomethane	1.513	94	2005	0.372	ug/l	82
6) Chloroethane	1.561	64	141	Below Cal	#	67
10) Methyl Iodide	2.204	142	1639	0.251	ug/l	# 44
13) Acrolein	2.011	56	415	Below Cal	#	47
16) Acetone	2.121	43	618	Below Cal	#	16
17) Carbon Disulfide	2.252	76	4577	0.217	ug/l	95
20) Methylene Chloride	2.461	84	1088	Below Cal	#	92
31) Cyclohexane	4.593	56	11356	1.097	ug/l	# 1
36) 1,1-Dichloropropene	4.600	75	46232	4.879	ug/l	# 47
38) Carbon Tetrachloride	4.596	117	56900	4.929	ug/l	# 17
41) Methacrylonitrile	4.178	41	126	1.717	ug/l	# 22
49) 1,4-Dioxane	6.140	88	100	0.893	ug/l	# 20
51) 4-Methyl-2-Pentanone	7.233	43	5438	0.540	ug/l	# 1
58) 2-Chloroethyl Vinyl ether	6.754	63	68	8.479	ug/l	# 45
76) 1,2,3-Trichloropropane	9.998	75	199022	26.124	ug/l	# 54
81) trans-1,4-Dichloro-2-b...	9.998	75	199022	65.975	ug/l	# 14

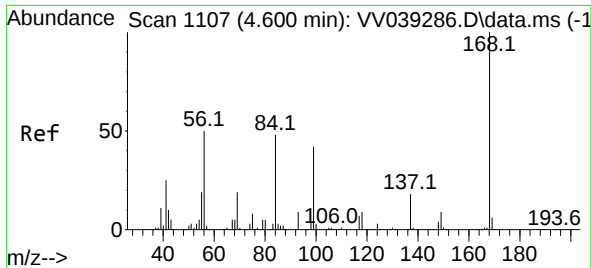
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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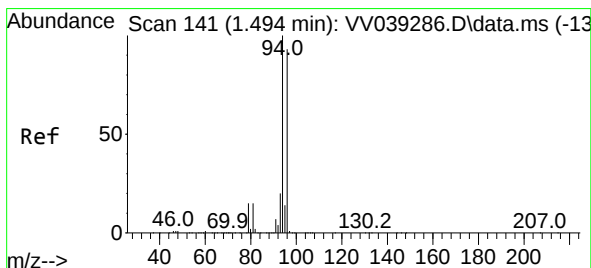
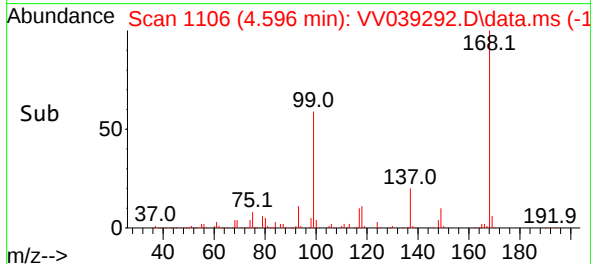
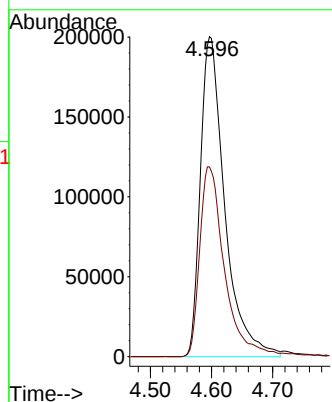
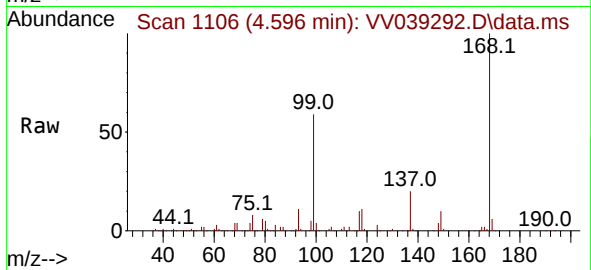




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. -0.004 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

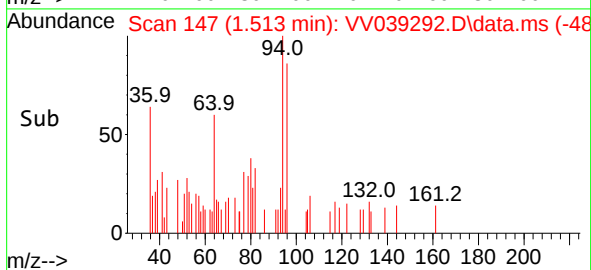
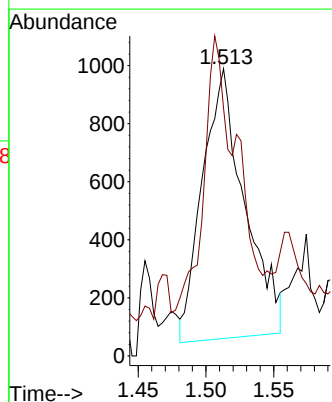
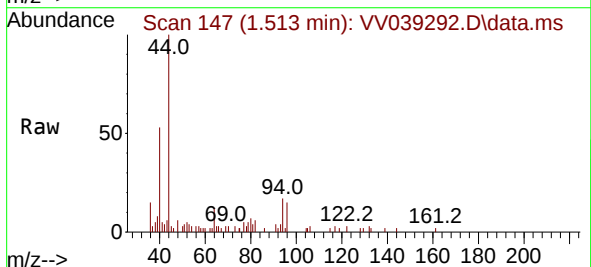
Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

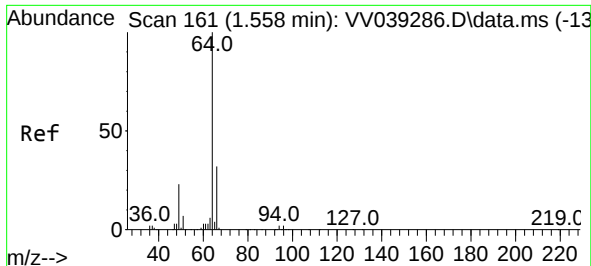
Tgt Ion:168 Resp: 552746
Ion Ratio Lower Upper
168 100
99 59.3 46.6 70.0



#5
Bromomethane
Concen: 0.372 ug/l
RT: 1.513 min Scan# 147
Delta R.T. 0.019 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion: 94 Resp: 2005
Ion Ratio Lower Upper
94 100
96 75.8 74.2 111.2

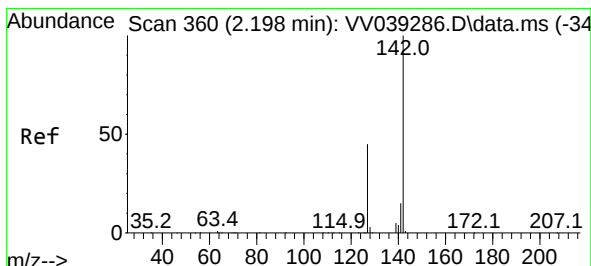
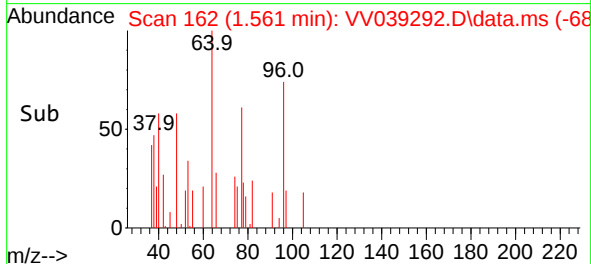
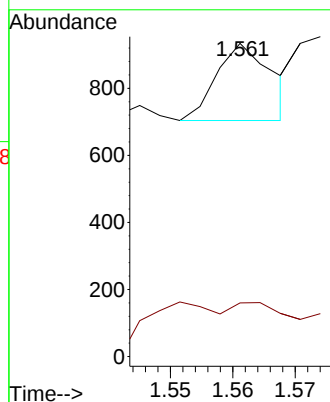
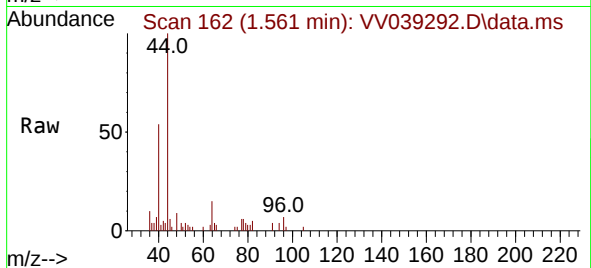




#6
Chloroethane
Concen: Below Cal
RT: 1.561 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

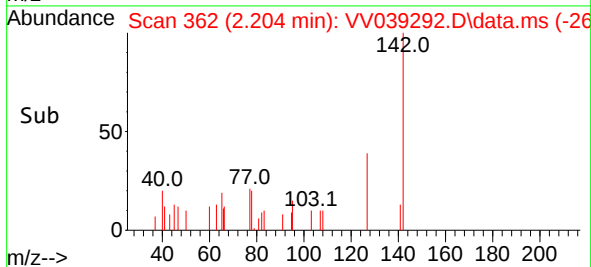
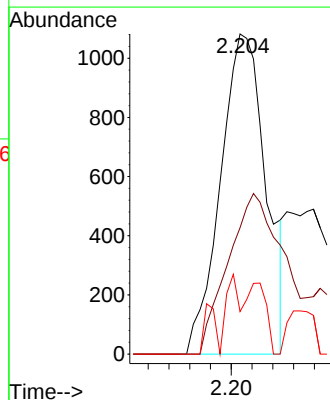
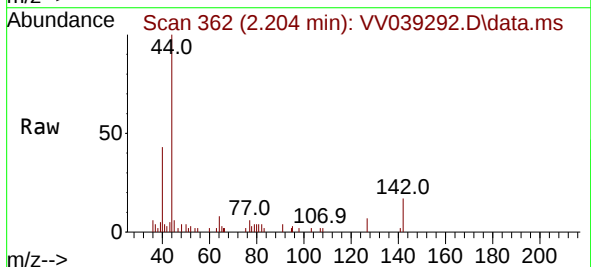
Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

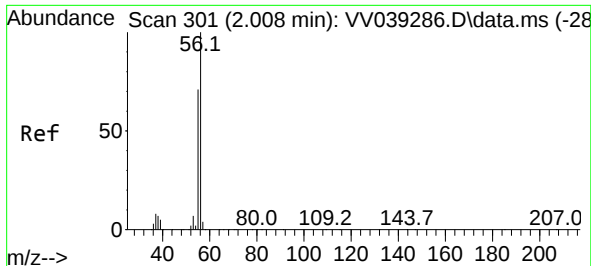
Tgt Ion: 64 Resp: 141
Ion Ratio Lower Upper
64 100
66 13.5 25.7 38.5#



#10
Methyl Iodide
Concen: 0.251 ug/l
RT: 2.204 min Scan# 362
Delta R.T. 0.006 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion:142 Resp: 1639
Ion Ratio Lower Upper
142 100
127 0.0 35.5 53.3#
141 7.3 11.5 17.3#

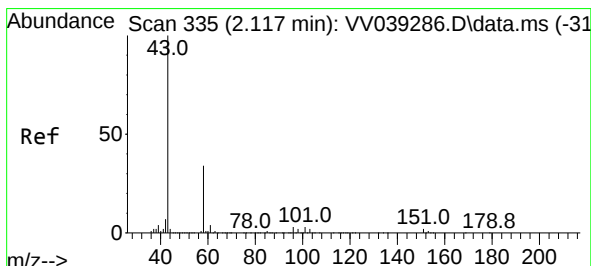
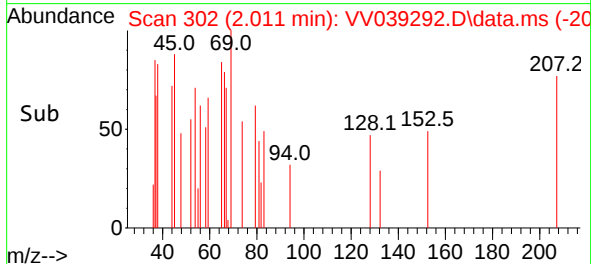
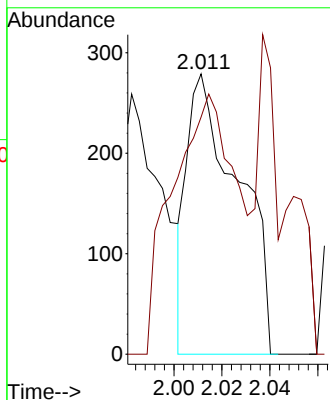
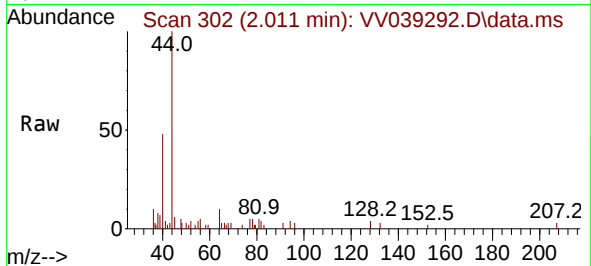




#13
Acrolein
Concen: Below Cal
RT: 2.011 min Scan# 301
Delta R.T. 0.003 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

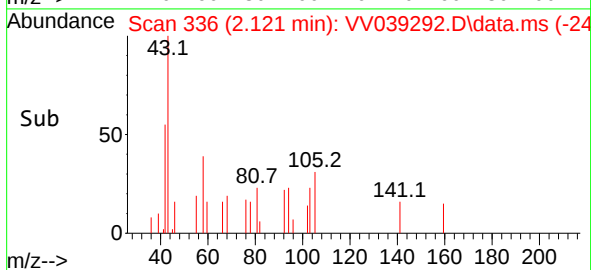
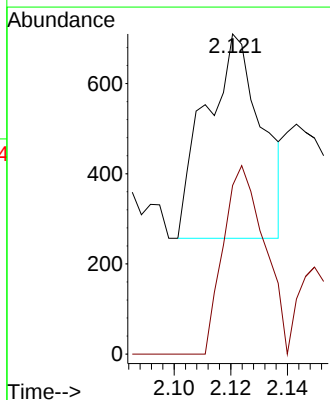
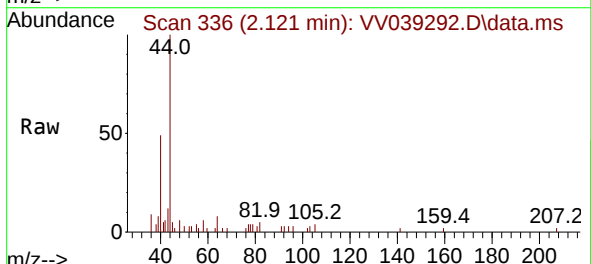
Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

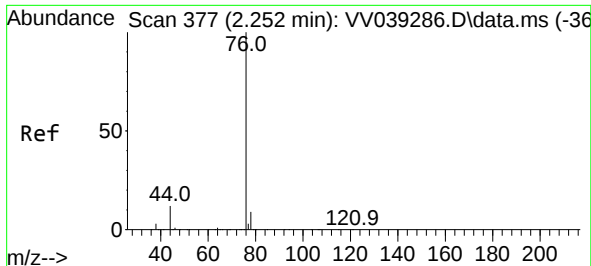
Tgt Ion: 56 Resp: 415
Ion Ratio Lower Upper
56 100
55 113.5 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion: 43 Resp: 618
Ion Ratio Lower Upper
43 100
58 82.6 27.5 41.3#

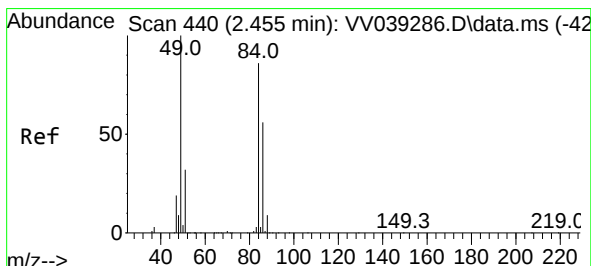
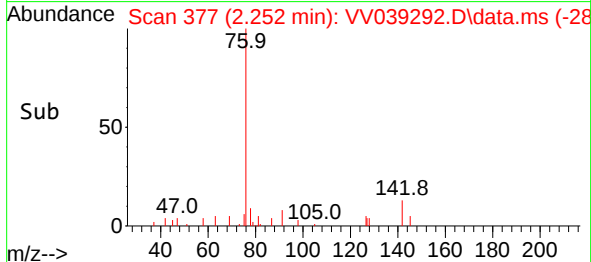
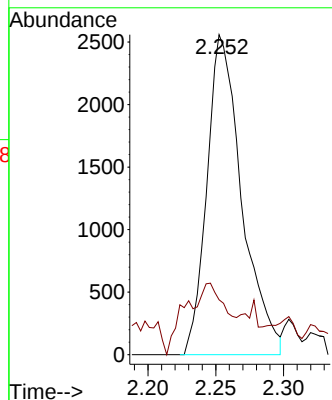
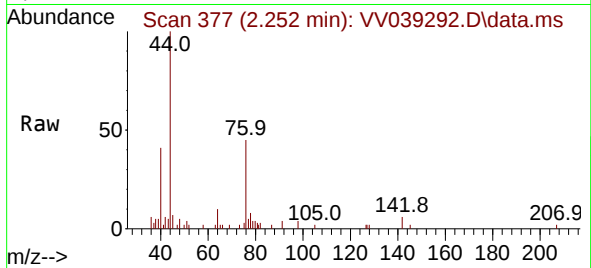




#17
Carbon Disulfide
Concen: 0.217 ug/l
RT: 2.252 min Scan# 317
Delta R.T. 0.000 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

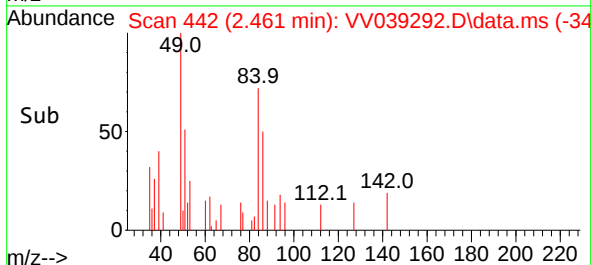
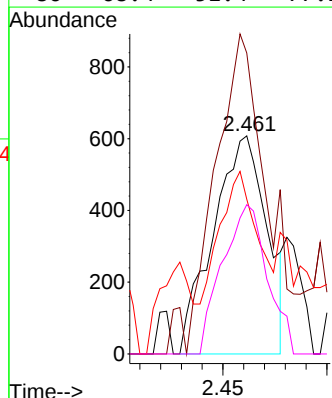
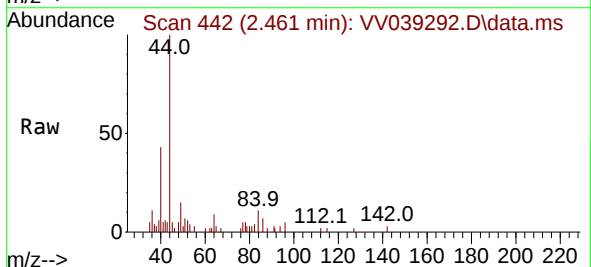
Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

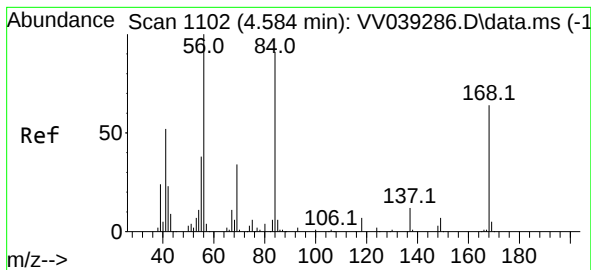
Tgt Ion: 76 Resp: 4577
Ion Ratio Lower Upper
76 100
78 7.4 7.4 11.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 442
Delta R.T. 0.006 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion: 84 Resp: 1088
Ion Ratio Lower Upper
84 100
49 116.8 92.6 139.0
51 15.1 29.6 44.4#
86 68.4 51.4 77.2





#31

Cyclohexane

Concen: 1.097 ug/l

RT: 4.593 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VV039292.D

Acq: 21 Oct 2025 09:35

Instrument :

MSVOA_V

ClientSampleId :

VV1021MBL01

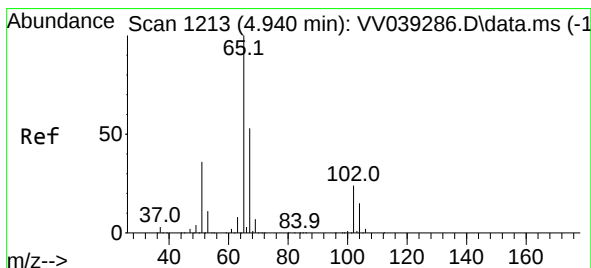
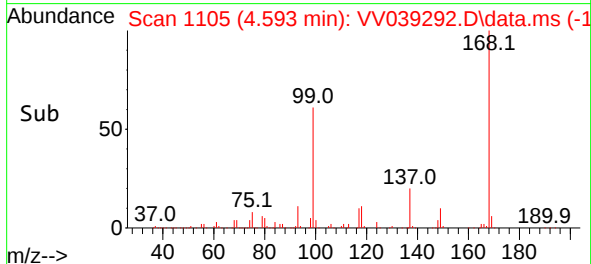
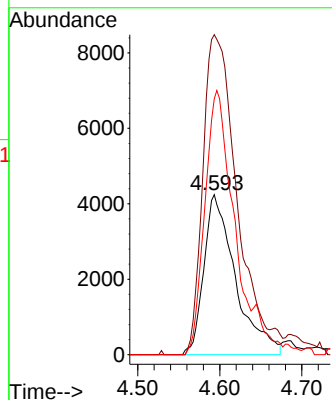
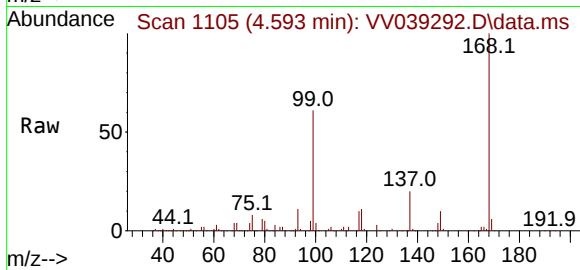
Tgt Ion: 56 Resp: 11356

Ion Ratio Lower Upper

56 100

69 200.0 27.4 41.0#

84 160.0 72.8 109.2#



#33

1,2-Dichloroethane-d4

Concen: 59.399 ug/l

RT: 4.937 min Scan# 1212

Delta R.T. -0.003 min

Lab File: VV039292.D

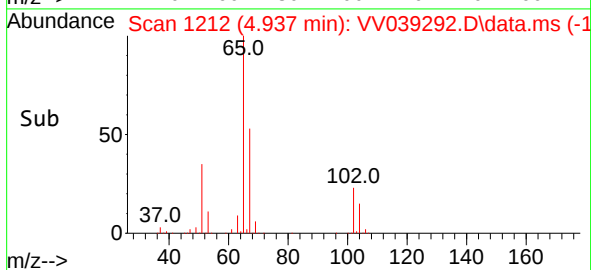
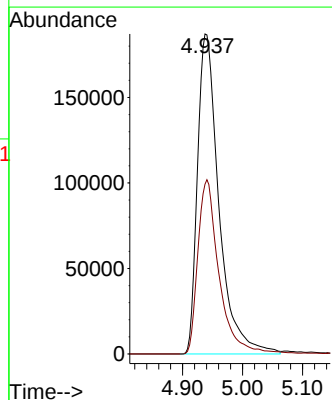
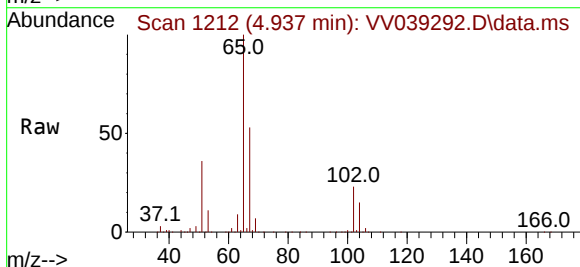
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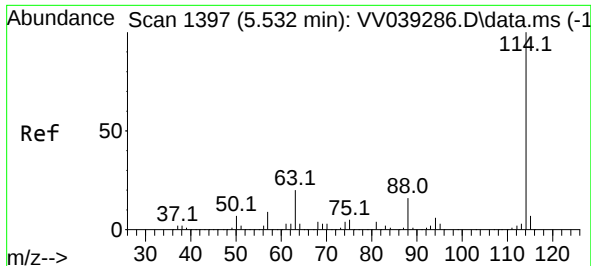
Tgt Ion: 65 Resp: 466533

Ion Ratio Lower Upper

65 100

67 53.9 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV039292.D

Acq: 21 Oct 2025 09:35

Instrument :

MSVOA_V

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VV1021MBL01

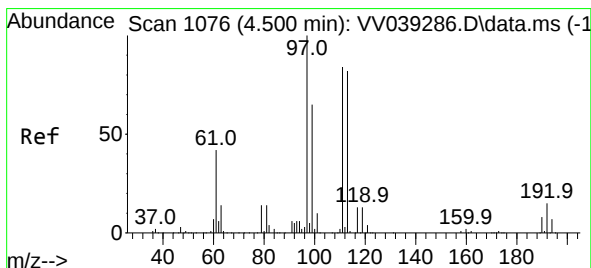
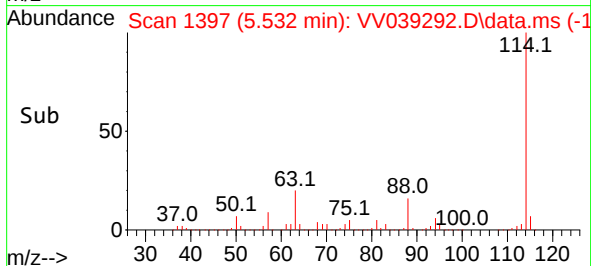
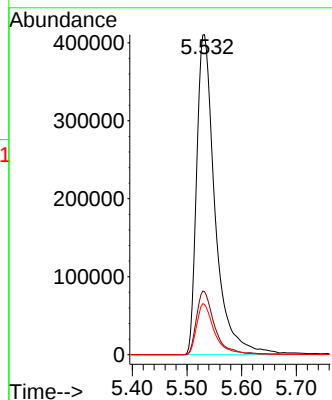
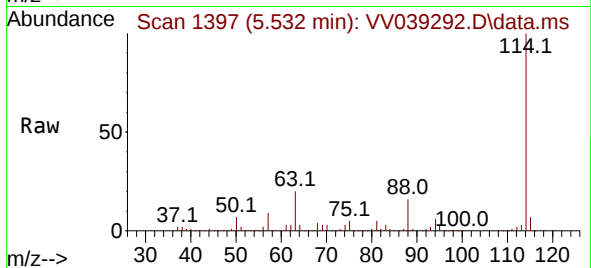
Tgt Ion:114 Resp: 957439

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 15.7 0.0 31.6



#35

Dibromofluoromethane

Concen: 55.460 ug/l

RT: 4.500 min Scan# 1076

Delta R.T. 0.000 min

Lab File: VV039292.D

Acq: 21 Oct 2025 09:35

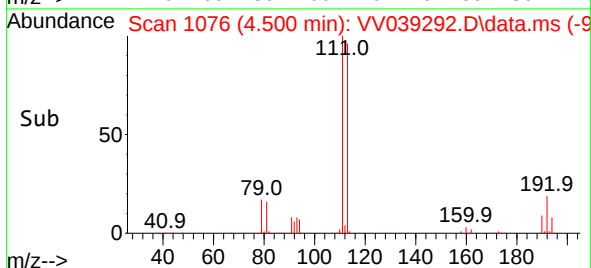
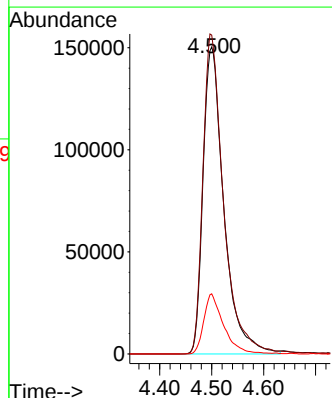
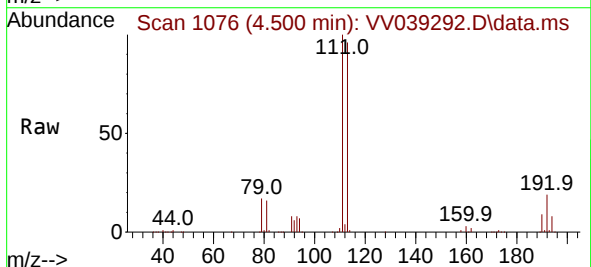
Tgt Ion:113 Resp: 418389

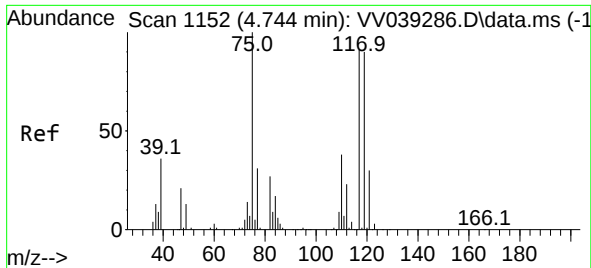
Ion Ratio Lower Upper

113 100

111 103.3 82.0 123.0

192 18.6 14.3 21.5

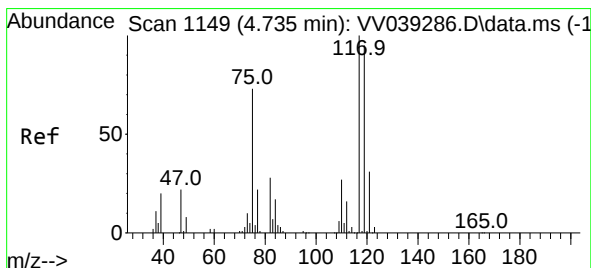
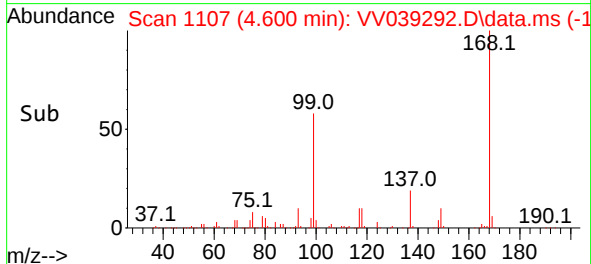
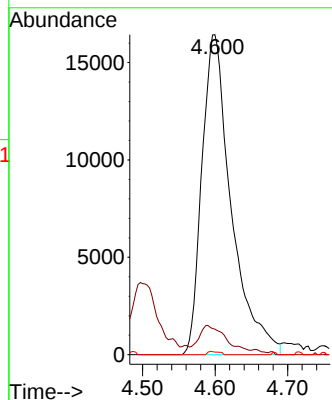
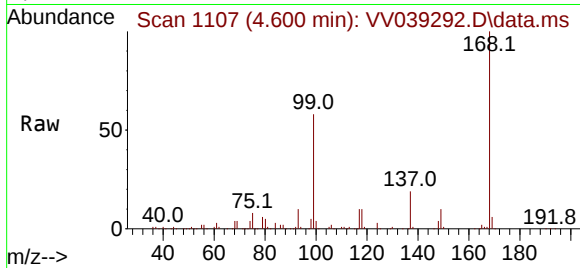




#36
1,1-Dichloropropene
Concen: 4.879 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.145 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

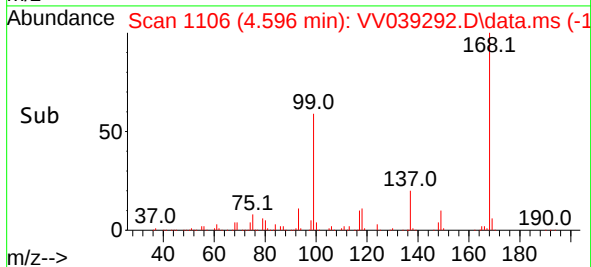
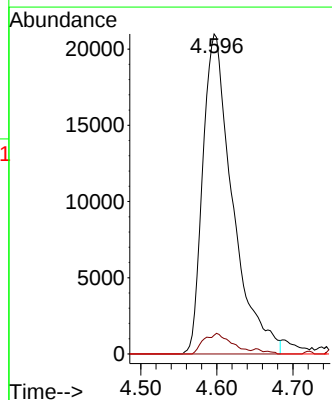
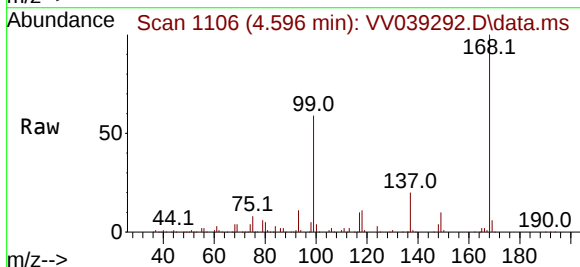
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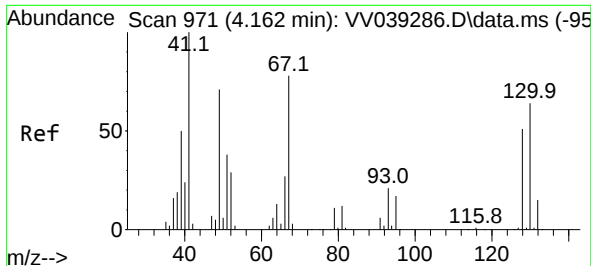
Tgt Ion: 75 Resp: 46232
Ion Ratio Lower Upper
75 100
110 7.0 18.9 56.7#
77 0.4 24.1 36.1#



#38
Carbon Tetrachloride
Concen: 4.929 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. -0.138 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion: 117 Resp: 56900
Ion Ratio Lower Upper
117 100
119 5.9 75.9 113.9#
121 0.0 24.6 37.0#

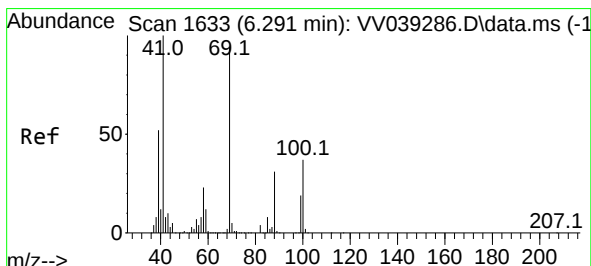
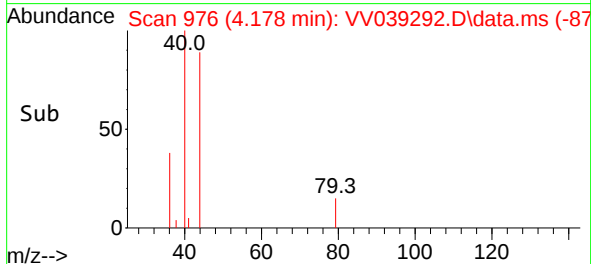
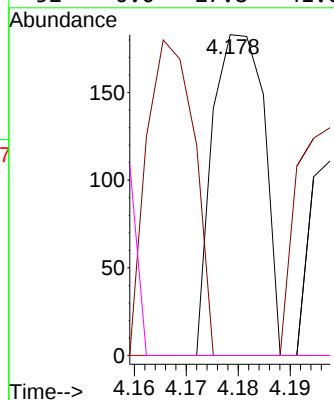
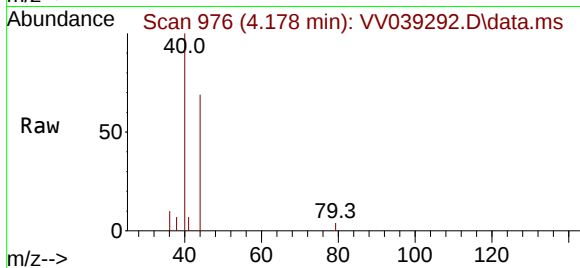




#41
Methacrylonitrile
Concen: 1.717 ug/l
RT: 4.178 min Scan# 91
Delta R.T. 0.016 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

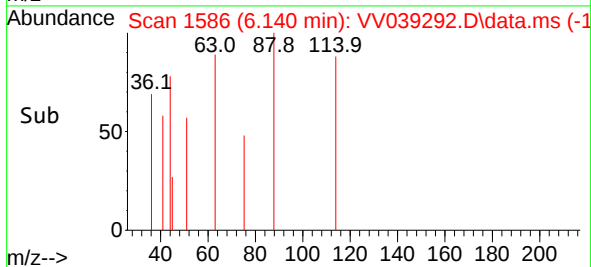
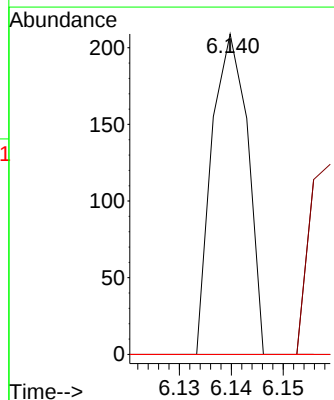
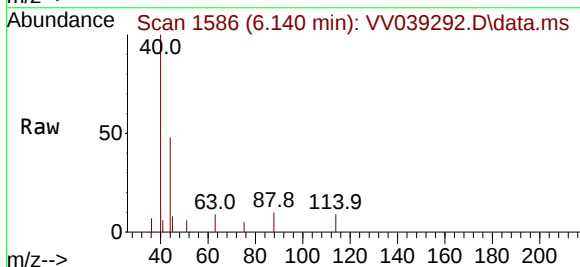
Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

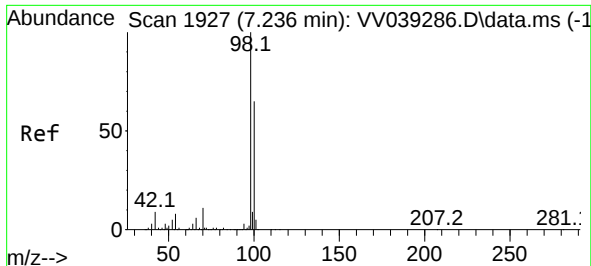
Tgt Ion:	41	Resp:	126
Ion	Ratio	Lower	Upper
41	100		
39	91.3	40.9	61.3#
67	0.0	73.1	109.7#
52	0.0	27.8	41.6#



#49
1,4-Dioxane
Concen: 0.893 ug/l
RT: 6.140 min Scan# 1586
Delta R.T. -0.151 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion:	88	Resp:	100
Ion	Ratio	Lower	Upper
88	100		
43	66.0	24.1	36.1#
58	0.0	57.6	86.4#

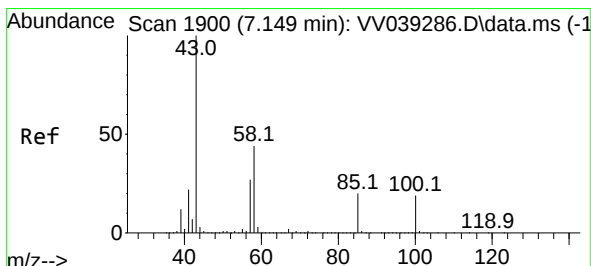
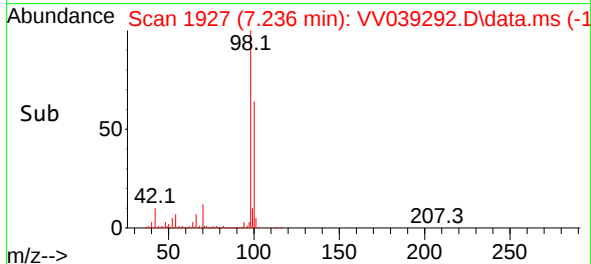
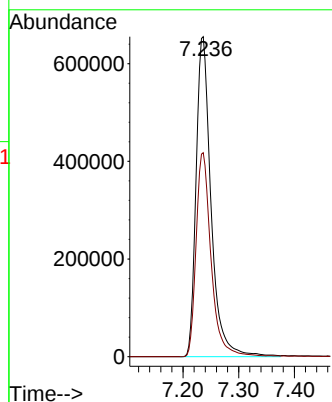
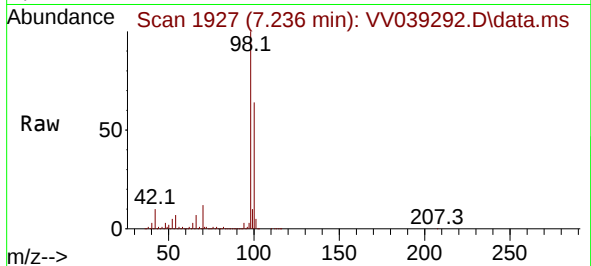




#50
Toluene-d8
Concen: 47.772 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

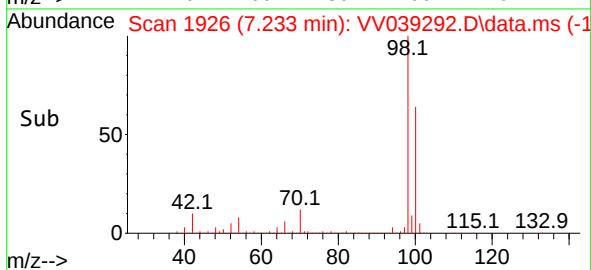
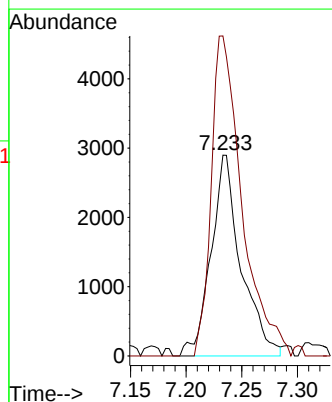
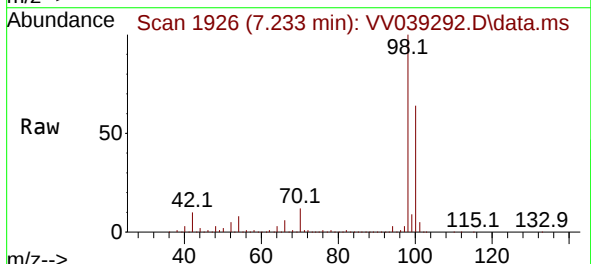
Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

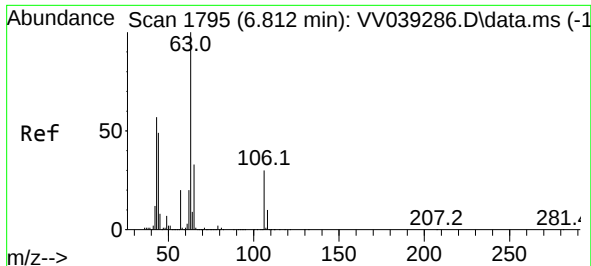
Tgt Ion: 98 Resp: 1226026
Ion Ratio Lower Upper
98 100
100 63.7 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.540 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.084 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion: 43 Resp: 5438
Ion Ratio Lower Upper
43 100
58 163.1 34.2 51.4#

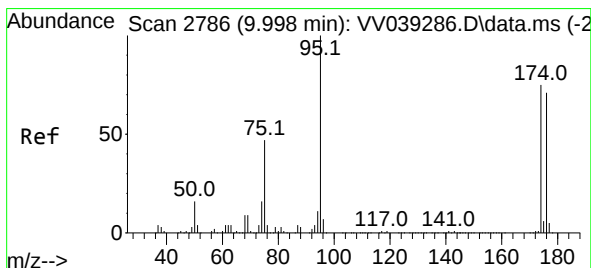
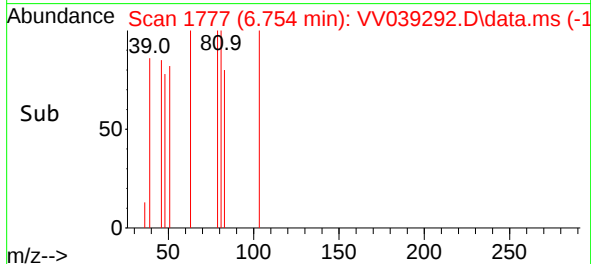
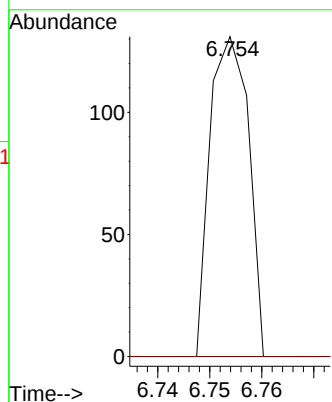
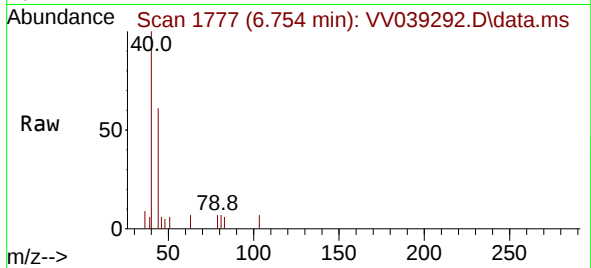




#58
2-Chloroethyl Vinyl ether
Concen: 8.479 ug/l
RT: 6.754 min Scan# 11
Delta R.T. -0.058 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

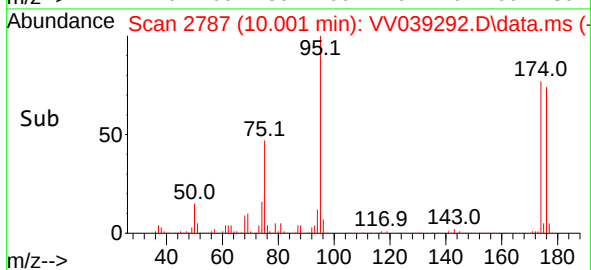
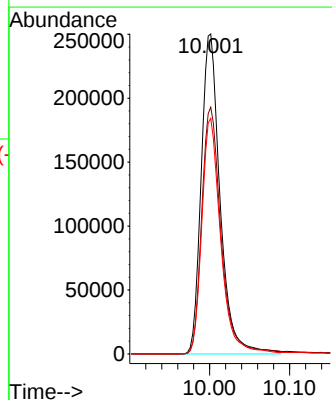
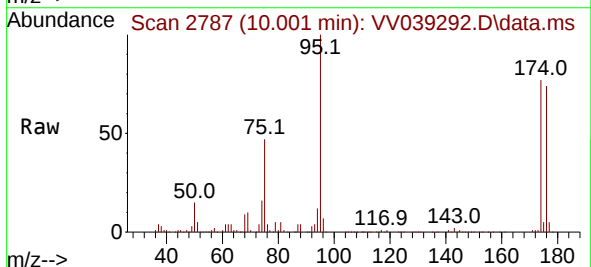
Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

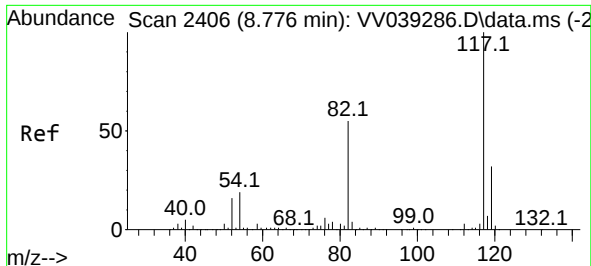
Tgt Ion: 63 Resp: 68
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 45.148 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion: 95 Resp: 412657
Ion Ratio Lower Upper
95 100
174 79.4 0.0 153.6
176 73.3 0.0 146.0

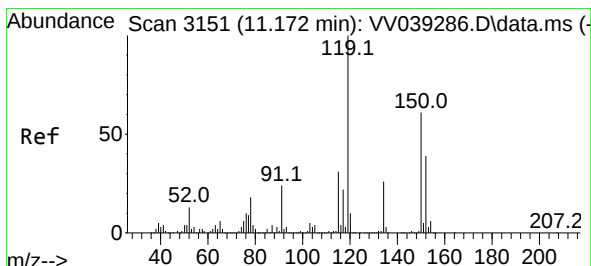
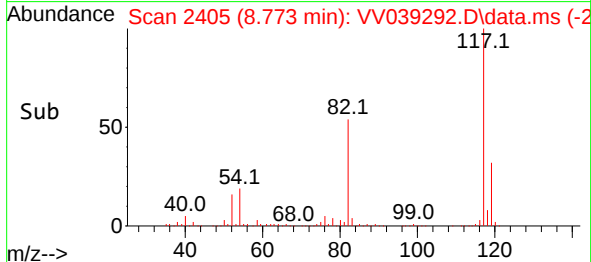
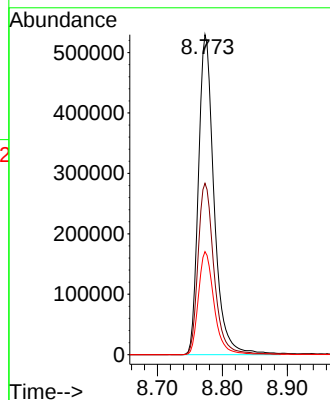
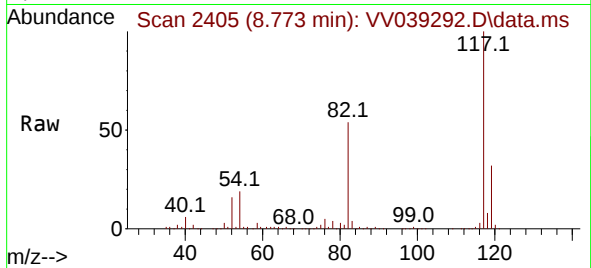




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2406
Delta R.T. -0.003 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

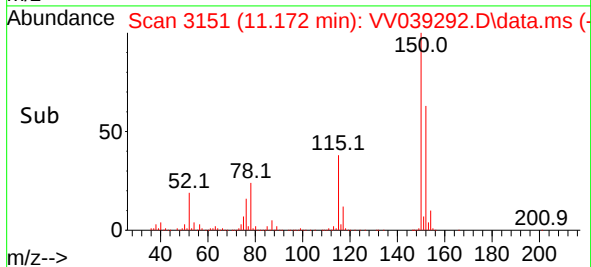
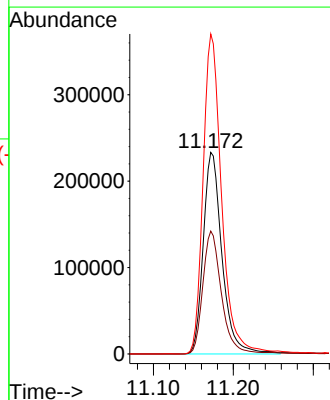
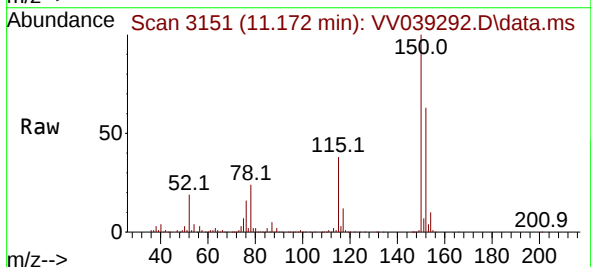
Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

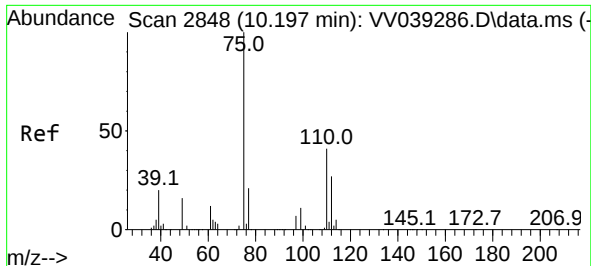
Tgt Ion:117 Resp: 890597
Ion Ratio Lower Upper
117 100
82 53.6 43.8 65.8
119 32.2 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion:152 Resp: 381709
Ion Ratio Lower Upper
152 100
115 60.0 42.3 126.8
150 157.8 0.0 348.0

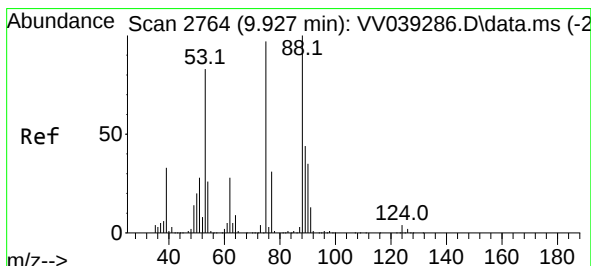
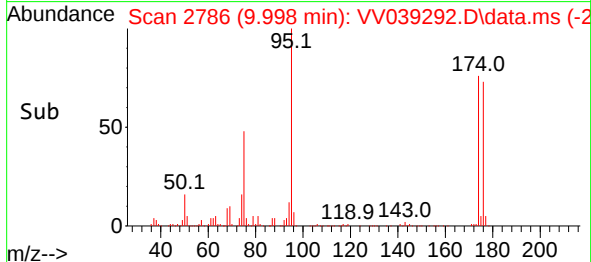
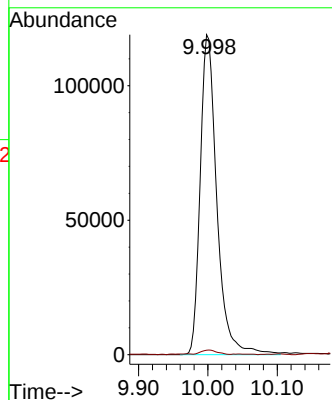
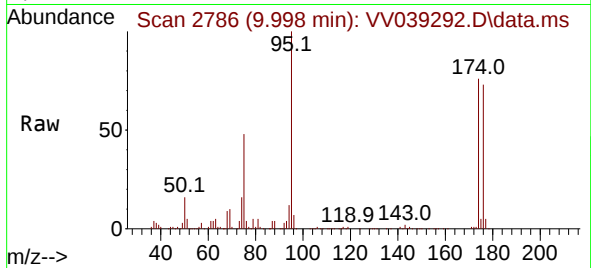




#76
1,2,3-Trichloropropane
Concen: 26.124 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.199 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Instrument :
MSVOA_V
ClientSampleId :
VV1021MBL01

Tgt Ion: 75 Resp: 199022
Ion Ratio Lower Upper
75 100
77 1.3 12.2 36.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.975 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.071 min
Lab File: VV039292.D
Acq: 21 Oct 2025 09:35

Tgt Ion: 75 Resp: 199022
Ion Ratio Lower Upper
75 100
53 0.5 69.9 104.9#
89 0.0 37.4 56.0#

