

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100625\
 Data File : VV039278.D
 Acq On : 06 Oct 2025 16:56
 Operator : SY/MD
 Sample : Q3289-06
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 72-11966

Quant Time: Oct 07 03:38:11 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)

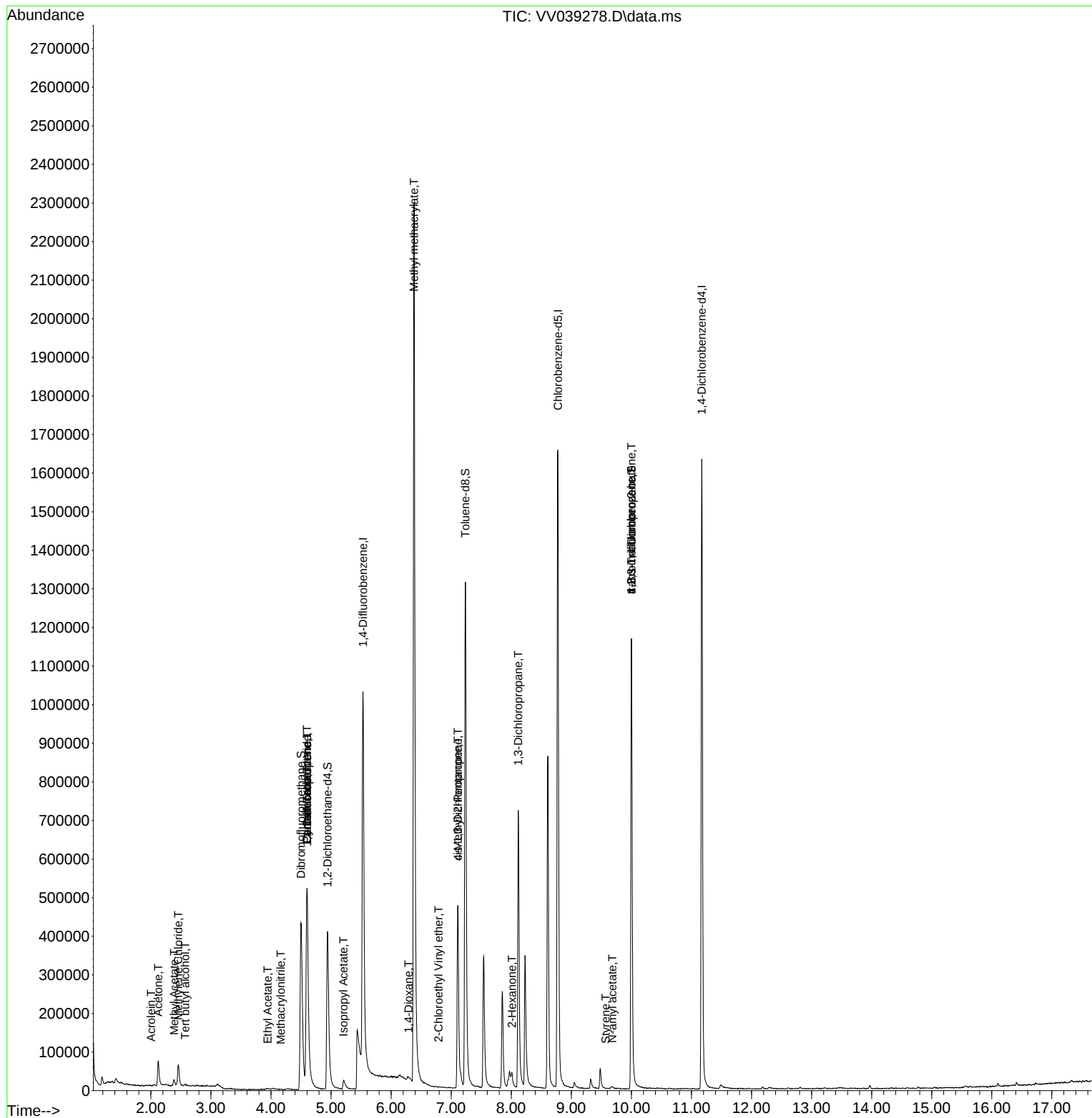
Internal Standards						
1) Pentafluorobenzene	4.600	168	452768	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	890682	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	943455	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	440223	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	367819	56.131	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 112.260%	
35) Dibromofluoromethane	4.500	113	363004	50.696	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 101.400%	
50) Toluene-d8	7.236	98	940522	44.723	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 89.440%	
62) 4-Bromofluorobenzene	10.001	95	397701	45.937	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 91.880%	
Target Compounds						Qvalue
6) Chloroethane	1.638	64	498	Below Cal	#	77
11) Tert butyl alcohol	2.571	59	1604	1.158	ug/l #	86
13) Acrolein	2.005	56	146	0.608	ug/l #	1
16) Acetone	2.124	43	80854	14.760	ug/l	99
18) Methyl Acetate	2.388	43	23116	2.381	ug/l	96
20) Methylene Chloride	2.458	84	27481	1.982	ug/l	94
31) Cyclohexane	4.600	56	10062	0.861	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	36927	3.411	ug/l #	47
37) Ethyl Acetate	3.944	43	3501	0.267	ug/l #	78
38) Carbon Tetrachloride	4.600	117	45701	3.454	ug/l #	17
41) Methacrylonitrile	4.162	41	40	1.917	ug/l #	1
43) Isopropyl Acetate	5.207	43	33153	1.851	ug/l	98
48) Methyl methacrylate	6.381	41	211174	26.010	ug/l #	39
49) 1,4-Dioxane	6.291	88	47	0.359	ug/l #	1
51) 4-Methyl-2-Pentanone	7.111	43	171874	14.586	ug/l #	49
54) cis-1,3-Dichloropropene	7.111	75	92811	6.958	ug/l #	66
57) 1,3-Dichloropropane	8.117	76	7756	0.536	ug/l #	43
58) 2-Chloroethyl Vinyl ether	6.789	63	92	9.637	ug/l #	47
59) 2-Hexanone	8.011	43	31171	5.572	ug/l #	23
70) Styrene	9.571	104	105	1.565	ug/l #	56
74) N-amyl acetate	9.683	43	3149	0.247	ug/l #	45
76) 1,2,3-Trichloropropane	10.001	75	196751	19.630	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.001	75	196751	47.125	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.435	75	70	Below Cal	#	5

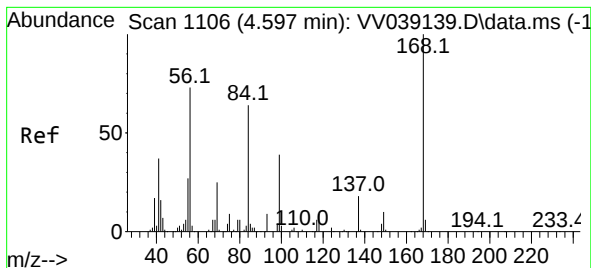
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100625\
Data File : VV039278.D
Acq On : 06 Oct 2025 16:56
Operator : SY/MD
Sample : Q3289-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
72-11966

Quant Time: Oct 07 03:38:11 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

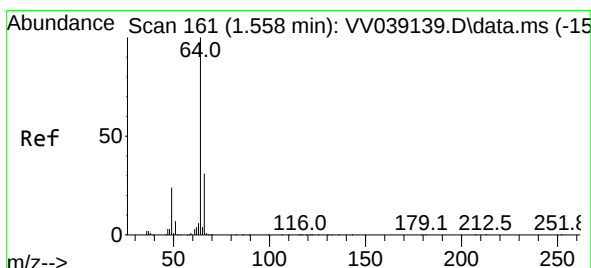
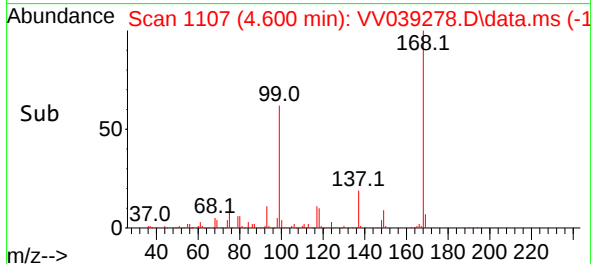
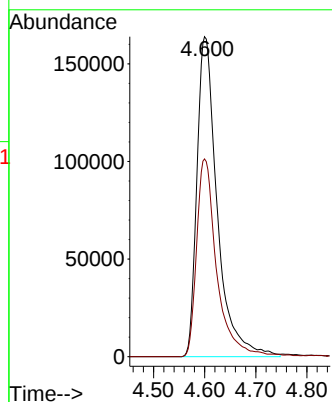
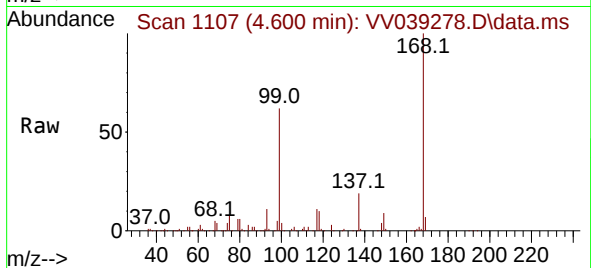




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

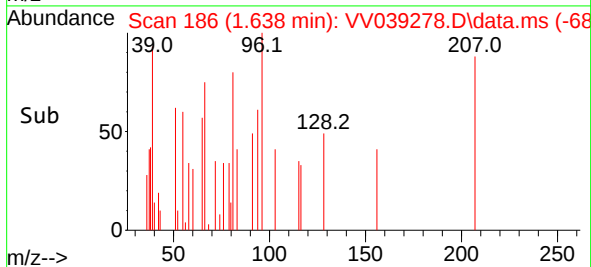
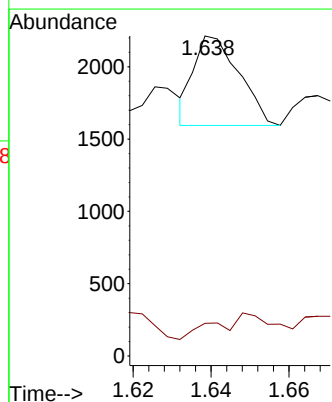
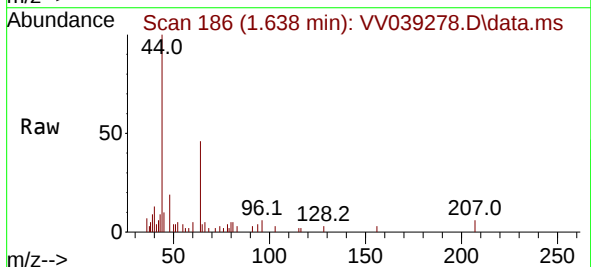
Instrument :
MSVOA_V
ClientSampleId :
72-11966

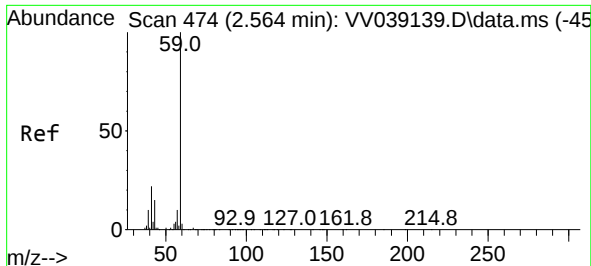
Tgt Ion:168 Resp: 452768
Ion Ratio Lower Upper
168 100
99 61.8 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.638 min Scan# 186
Delta R.T. 0.080 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 64 Resp: 498
Ion Ratio Lower Upper
64 100
66 18.1 24.6 36.8#

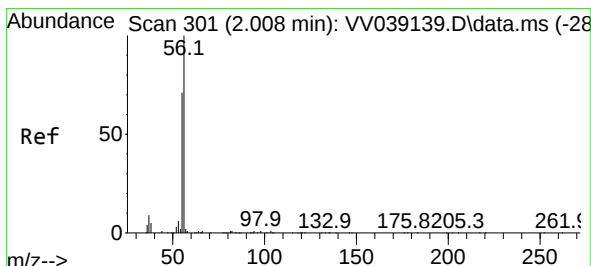
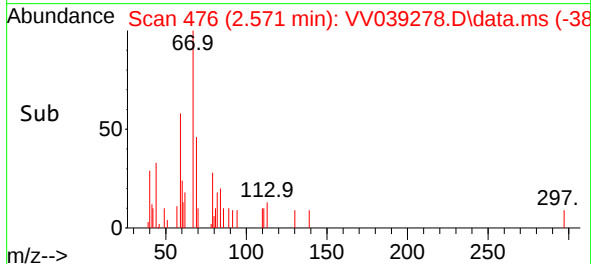
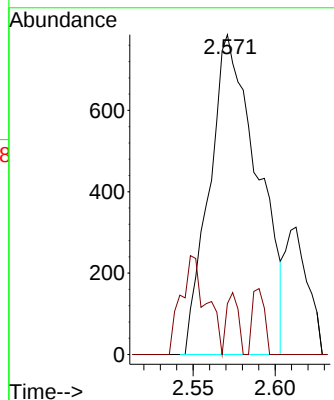
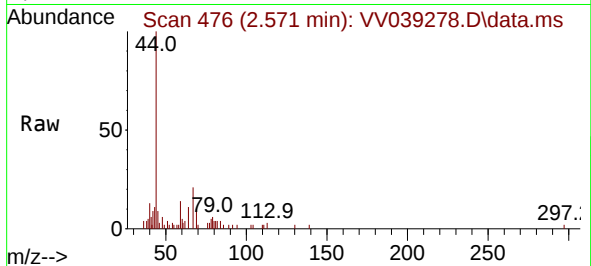




#11
Tert butyl alcohol
Concen: 1.158 ug/l
RT: 2.571 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

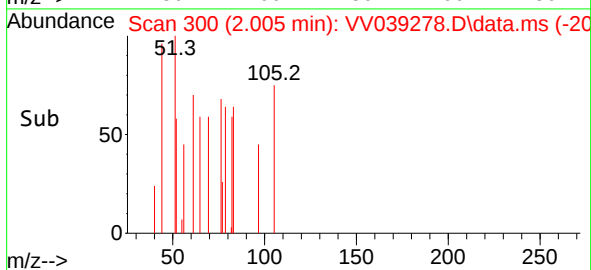
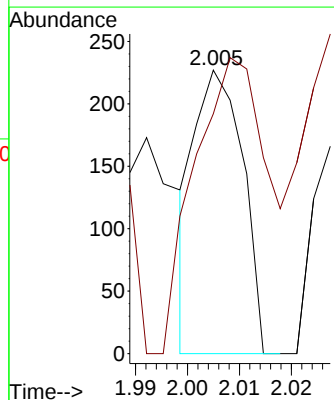
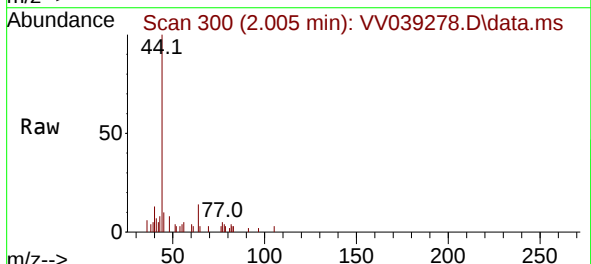
Instrument :
MSVOA_V
ClientSampleId :
72-11966

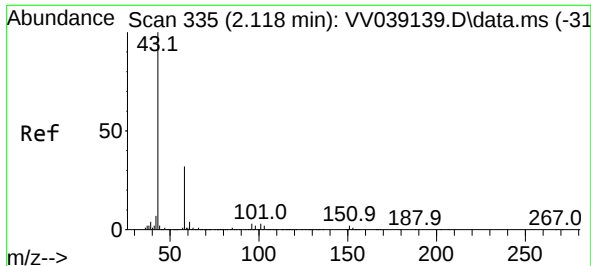
Tgt Ion: 59 Resp: 1604
Ion Ratio Lower Upper
59 100
57 4.7 7.8 11.8#



#13
Acrolein
Concen: 0.608 ug/l
RT: 2.005 min Scan# 300
Delta R.T. -0.003 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 56 Resp: 146
Ion Ratio Lower Upper
56 100
55 158.9 56.2 84.4#

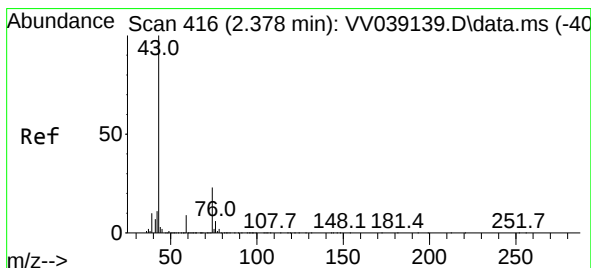
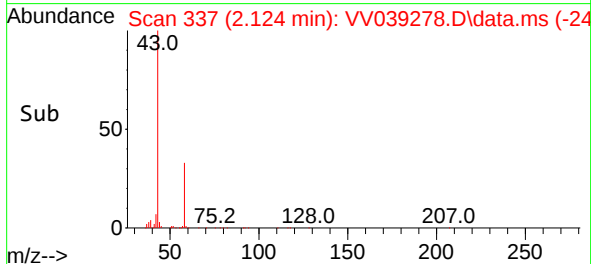
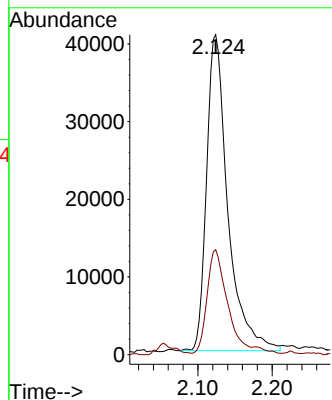
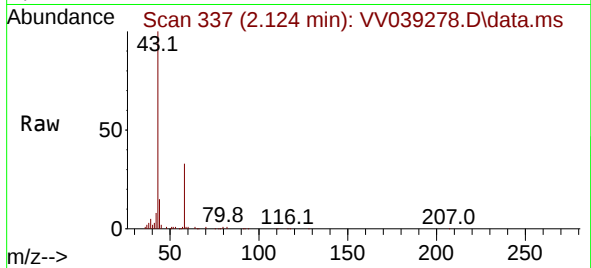




#16
Acetone
Concen: 14.760 ug/l
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

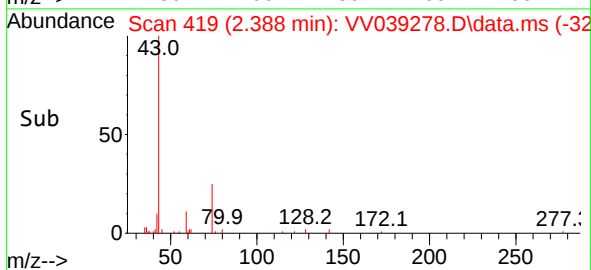
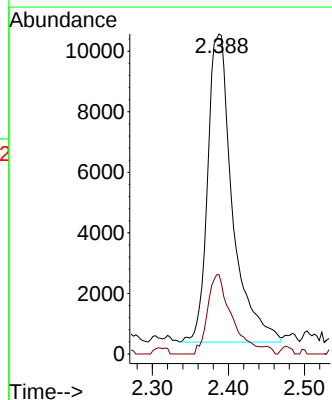
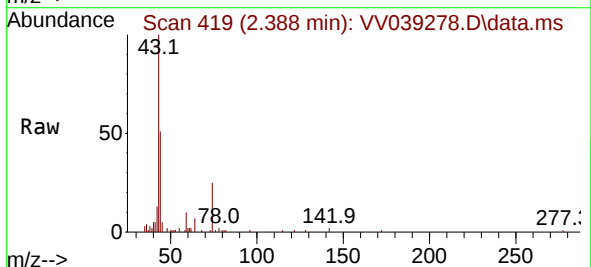
Instrument :
MSVOA_V
ClientSampleId :
72-11966

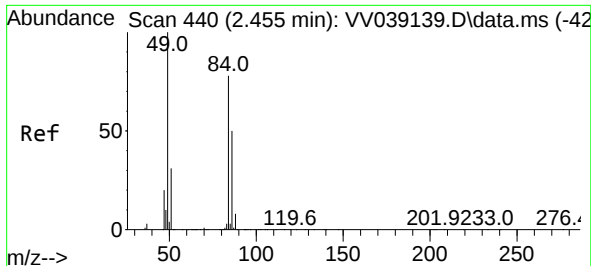
Tgt Ion: 43 Resp: 80854
Ion Ratio Lower Upper
43 100
58 32.8 25.8 38.6



#18
Methyl Acetate
Concen: 2.381 ug/l
RT: 2.388 min Scan# 419
Delta R.T. 0.010 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 43 Resp: 23116
Ion Ratio Lower Upper
43 100
74 25.1 18.6 27.8





#20

Methylene Chloride

Concen: 1.982 ug/l

RT: 2.458 min Scan# 440

Delta R.T. 0.003 min

Lab File: VV039278.D

Acq: 06 Oct 2025 16:56

Instrument :

MSVOA_V

ClientSampleId :

72-11966

Tgt Ion: 84 Resp: 27481

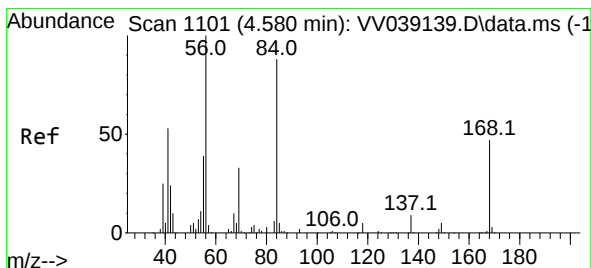
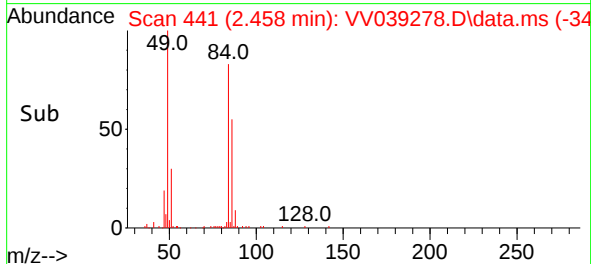
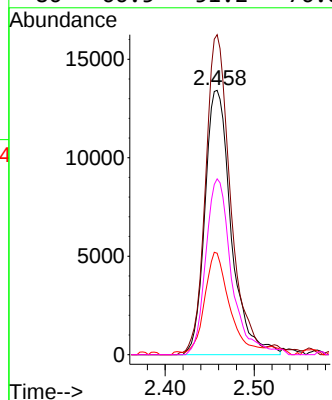
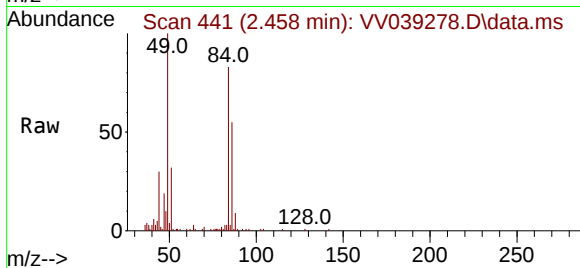
Ion Ratio Lower Upper

84 100

49 120.2 102.8 154.2

51 37.3 31.9 47.9

86 66.5 51.2 76.8



#31

Cyclohexane

Concen: 0.861 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. 0.019 min

Lab File: VV039278.D

Acq: 06 Oct 2025 16:56

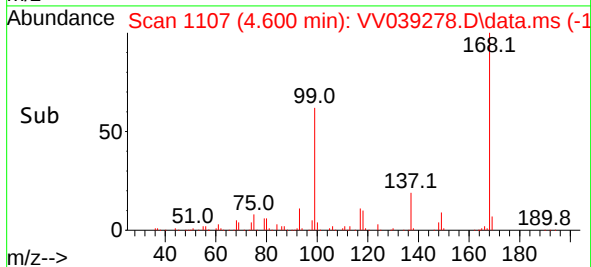
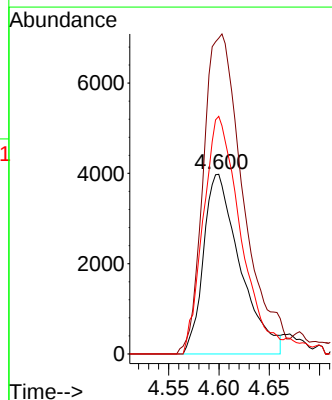
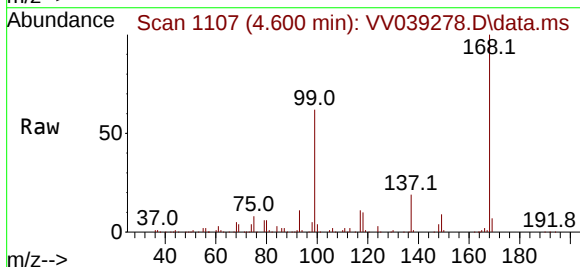
Tgt Ion: 56 Resp: 10062

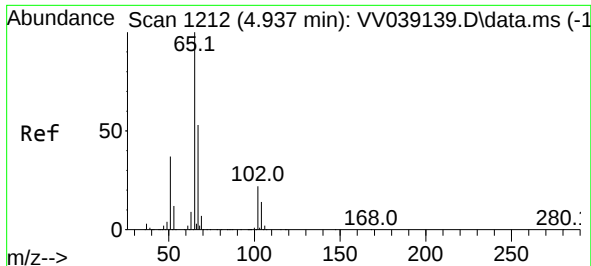
Ion Ratio Lower Upper

56 100

69 172.9 26.2 39.2#

84 132.2 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 56.131 ug/l

RT: 4.941 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039278.D

Acq: 06 Oct 2025 16:56

Instrument :

MSVOA_V

ClientSampleId :

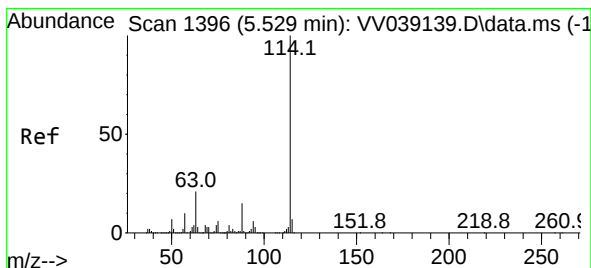
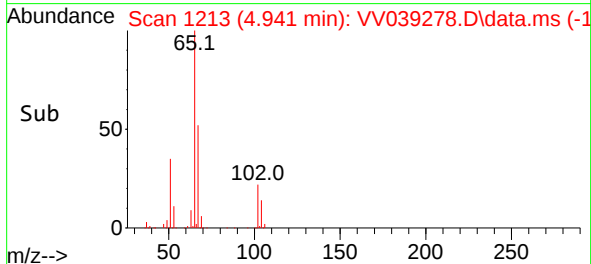
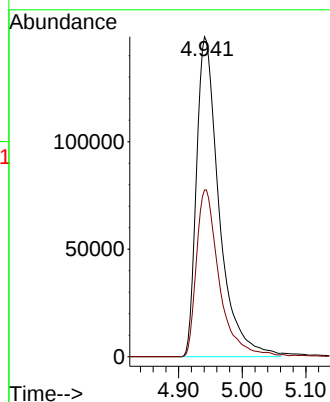
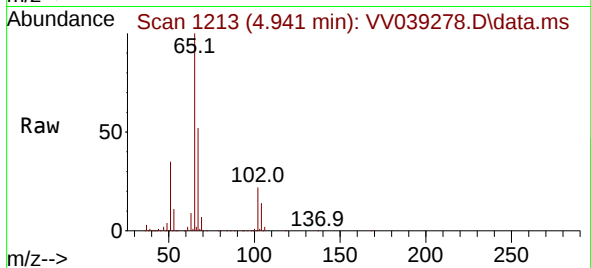
72-11966

Tgt Ion: 65 Resp: 367819

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039278.D

Acq: 06 Oct 2025 16:56

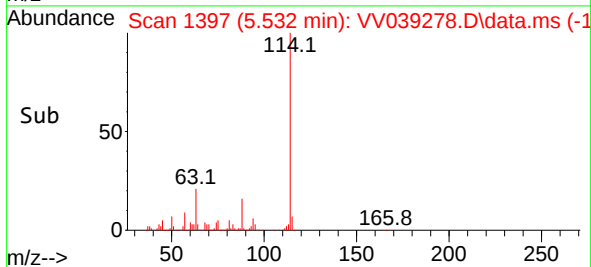
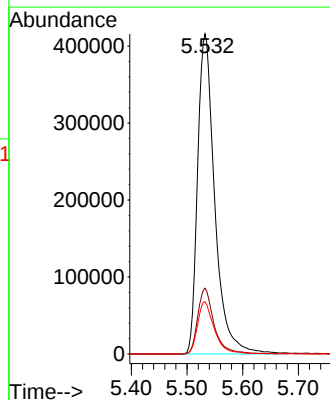
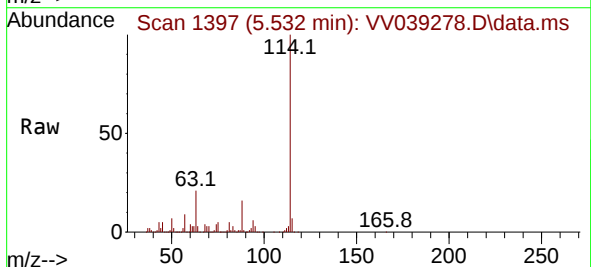
Tgt Ion: 114 Resp: 890682

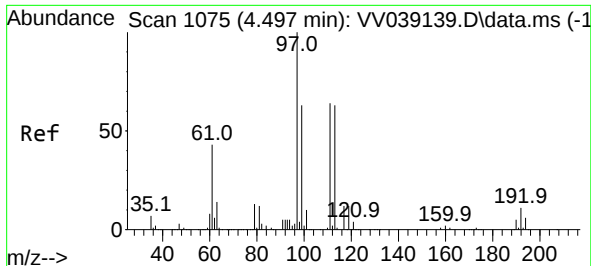
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

88 16.3 0.0 30.8

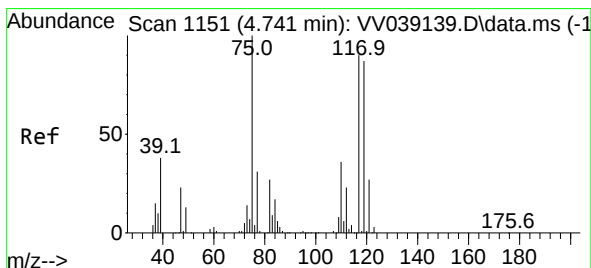
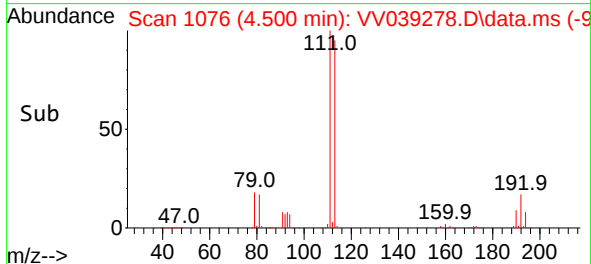
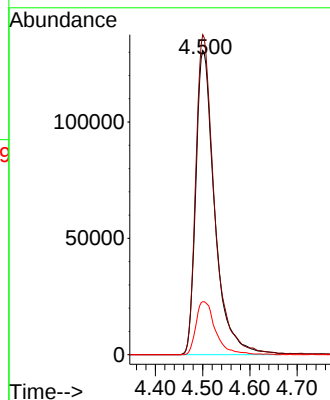
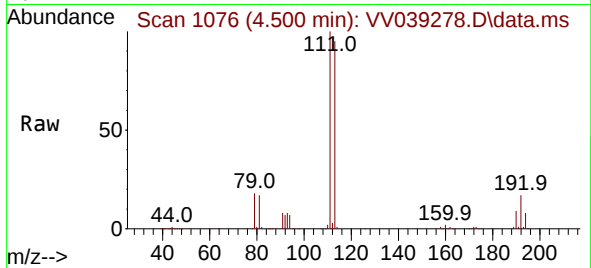




#35
Dibromofluoromethane
Concen: 50.696 ug/l
RT: 4.500 min Scan# 1108
Delta R.T. 0.003 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

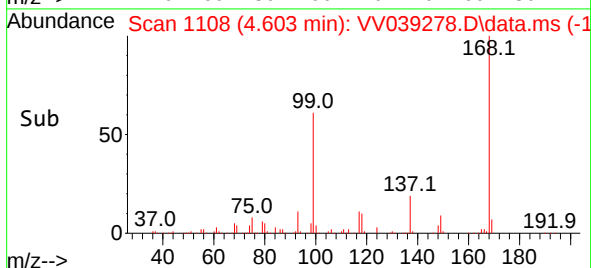
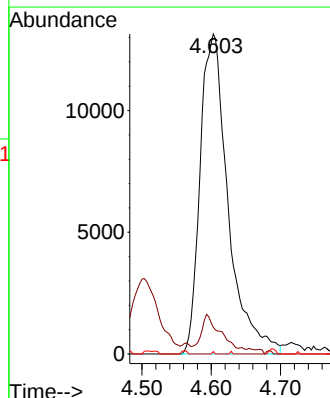
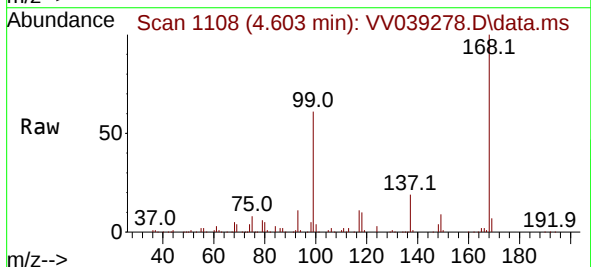
Instrument :
MSVOA_V
ClientSampleId :
72-11966

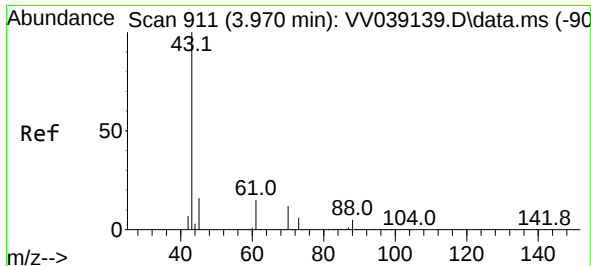
Tgt Ion:113 Resp: 363004
Ion Ratio Lower Upper
113 100
111 104.0 82.4 123.6
192 18.0 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.411 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. -0.138 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 75 Resp: 36927
Ion Ratio Lower Upper
75 100
110 6.7 18.1 54.1#
77 0.1 24.8 37.2#

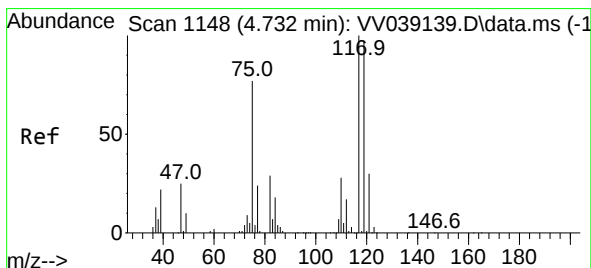
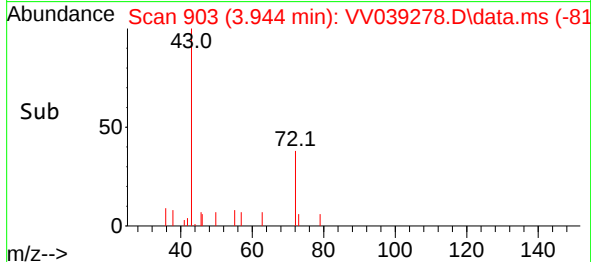
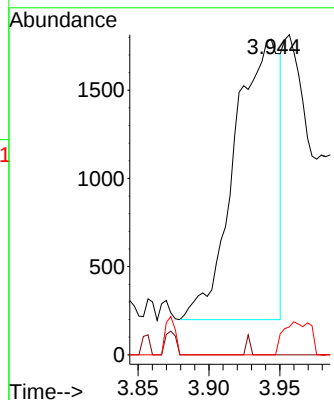
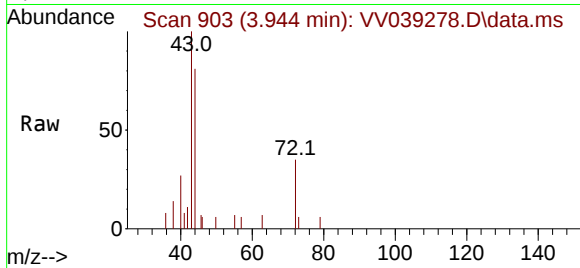




#37
Ethyl Acetate
Concen: 0.267 ug/l
RT: 3.944 min Scan# 90
Delta R.T. -0.026 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

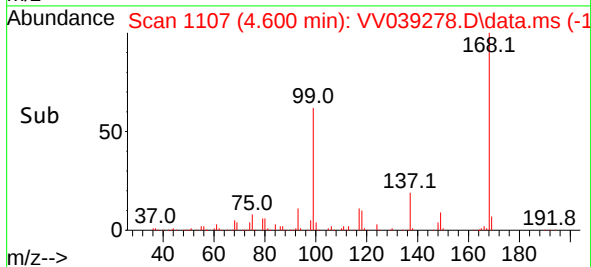
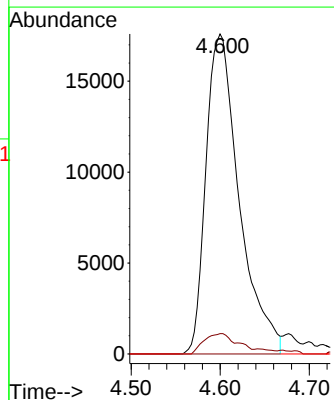
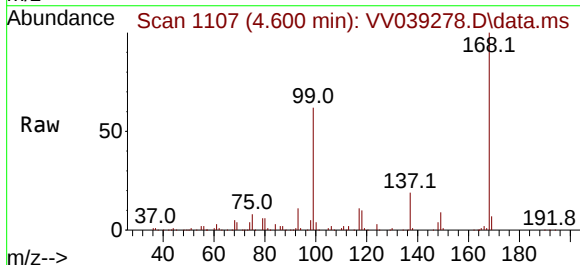
Instrument :
MSVOA_V
ClientSampleId :
72-11966

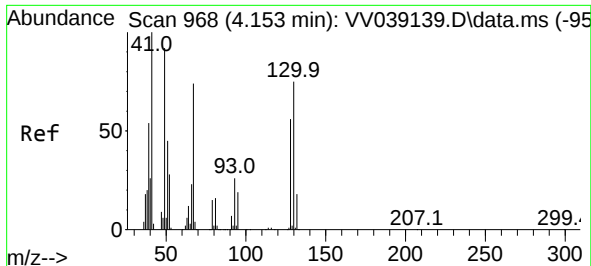
Tgt Ion: 43 Resp: 3501
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 7.1 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 3.454 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.132 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 117 Resp: 45701
Ion Ratio Lower Upper
117 100
119 6.4 77.2 115.8#
121 0.0 24.2 36.2#

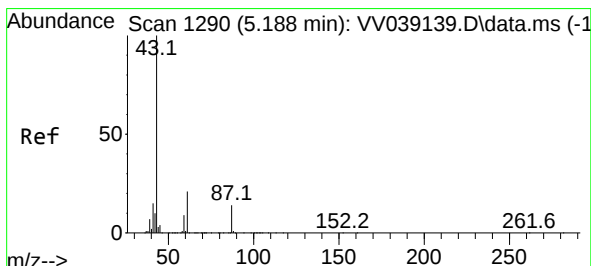
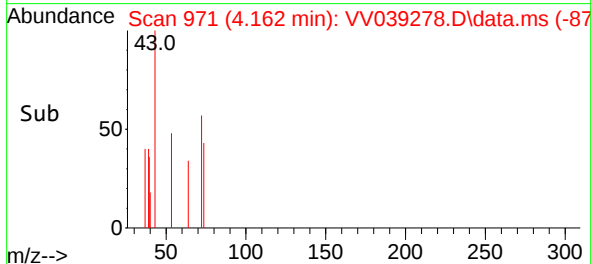
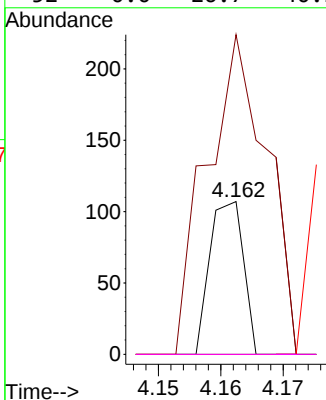
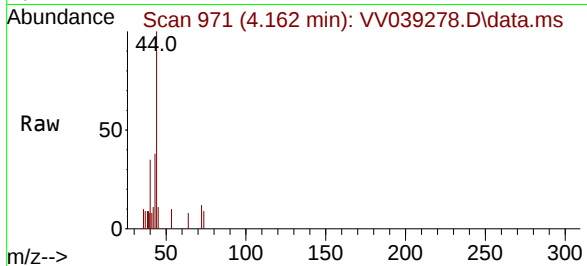




#41
Methacrylonitrile
Concen: 1.917 ug/l
RT: 4.162 min Scan# 91
Delta R.T. 0.009 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

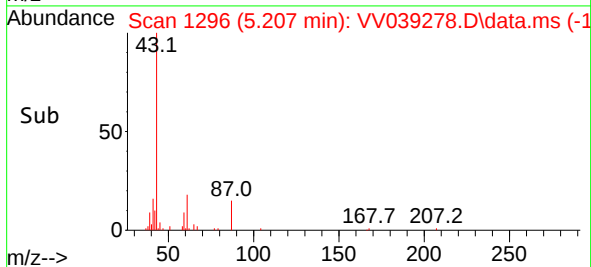
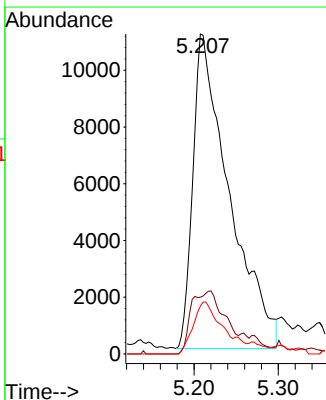
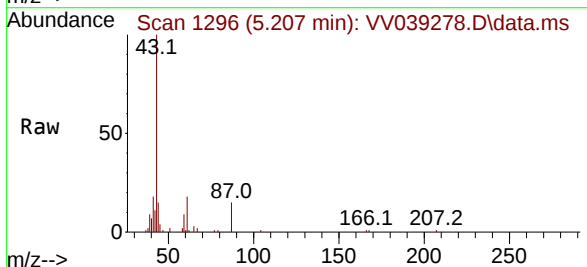
Instrument :
MSVOA_V
ClientSampleId :
72-11966

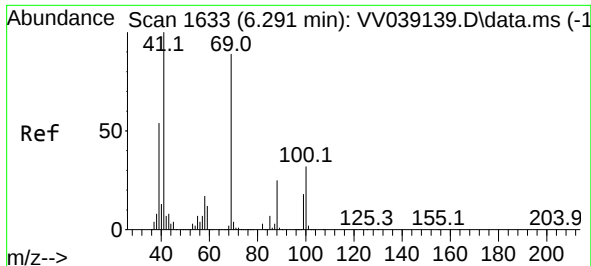
Tgt Ion: 41	Resp: 40
Ion Ratio	Lower Upper
41 100	
39 375.0	42.2 63.2#
67 0.0	67.9 101.9#
52 0.0	26.7 40.1#



#43
Isopropyl Acetate
Concen: 1.851 ug/l
RT: 5.207 min Scan# 1296
Delta R.T. 0.019 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 43	Resp: 33153
Ion Ratio	Lower Upper
43 100	
61 18.4	15.9 23.9
87 13.6	11.0 16.6





#48

Methyl methacrylate

Concen: 26.010 ug/l

RT: 6.381 min Scan# 1

Delta R.T. 0.090 min

Lab File: VV039278.D

Acq: 06 Oct 2025 16:56

Instrument :

MSVOA_V

ClientSampleId :

72-11966

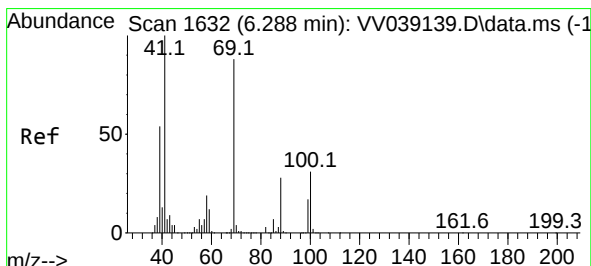
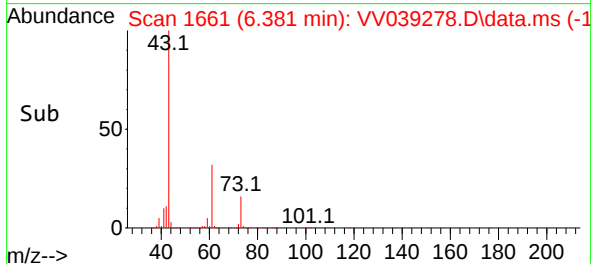
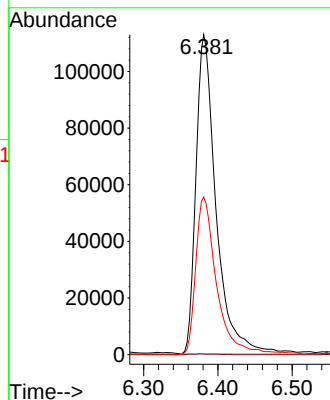
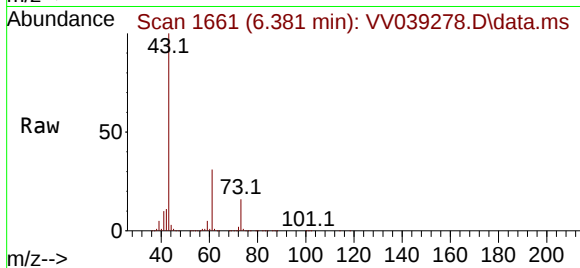
Tgt Ion: 41 Resp: 211174

Ion Ratio Lower Upper

41 100

69 0.2 72.4 108.6#

39 52.2 42.5 63.7



#49

1,4-Dioxane

Concen: 0.359 ug/l

RT: 6.291 min Scan# 1633

Delta R.T. 0.003 min

Lab File: VV039278.D

Acq: 06 Oct 2025 16:56

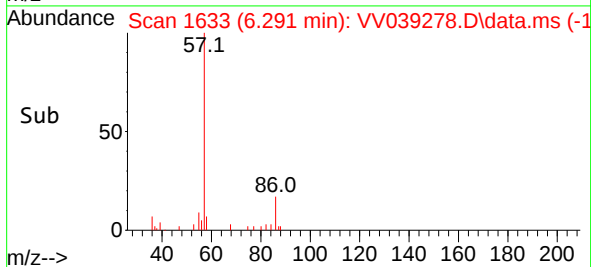
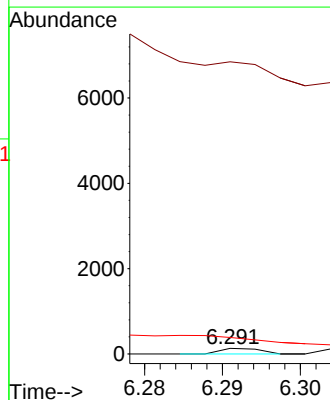
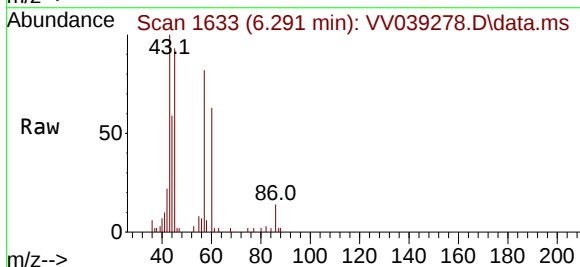
Tgt Ion: 88 Resp: 47

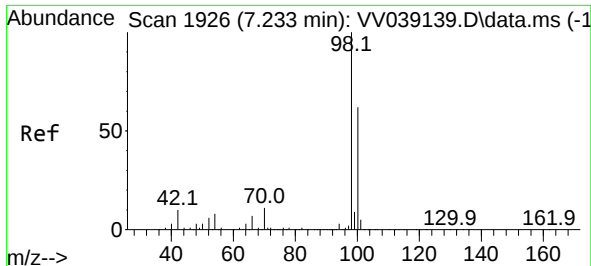
Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

58 1810.6 53.6 80.4#

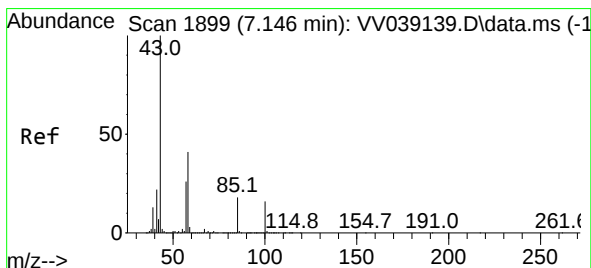
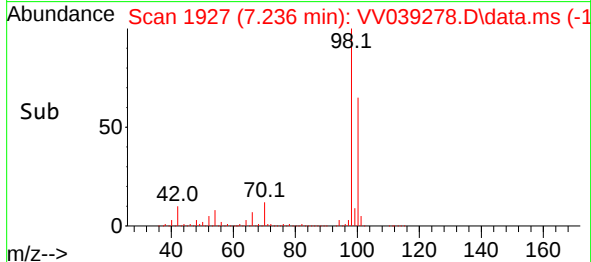
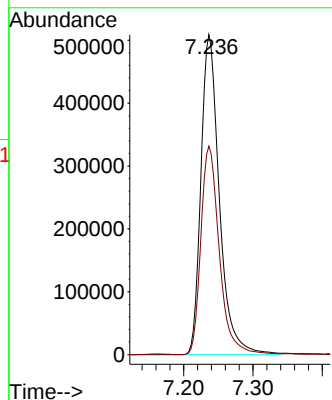
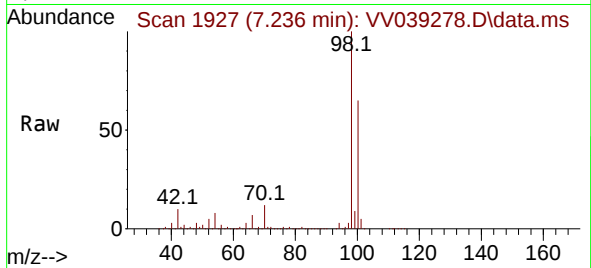




#50
Toluene-d8
Concen: 44.723 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

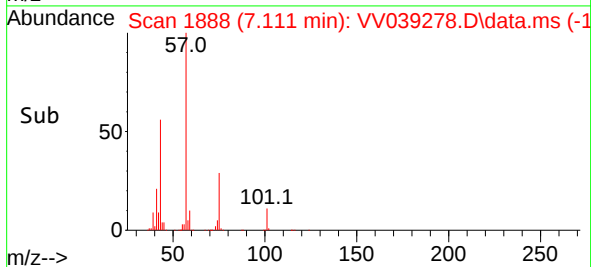
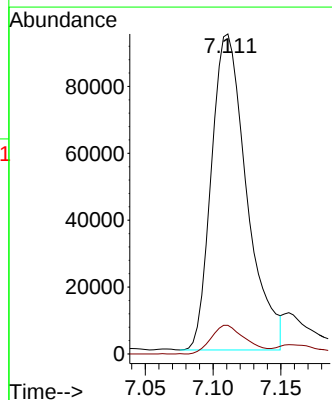
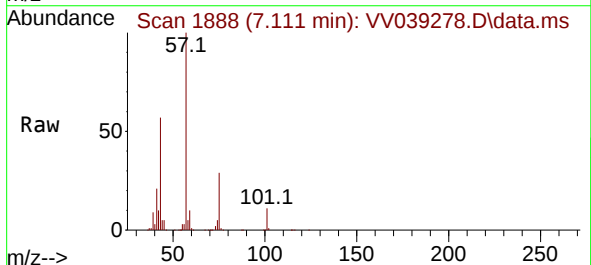
Instrument :
MSVOA_V
ClientSampleId :
72-11966

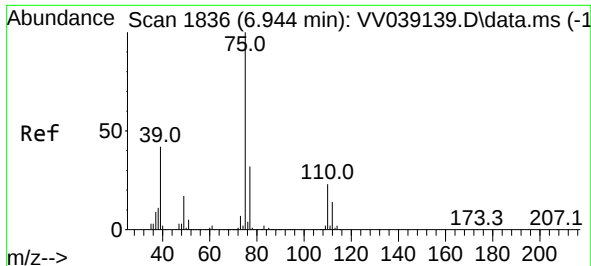
Tgt Ion: 98 Resp: 940522
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 14.586 ug/l
RT: 7.111 min Scan# 1888
Delta R.T. -0.035 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 43 Resp: 171874
Ion Ratio Lower Upper
43 100
58 8.8 32.3 48.5#

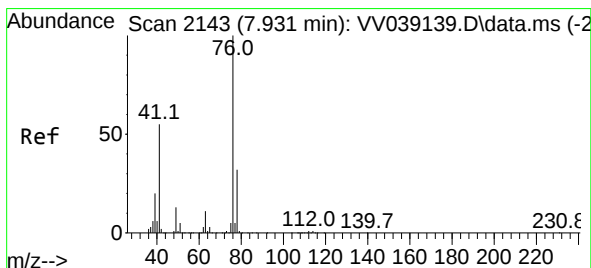
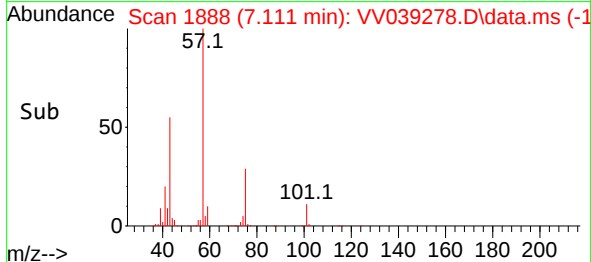
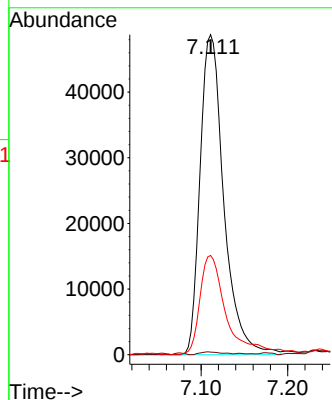
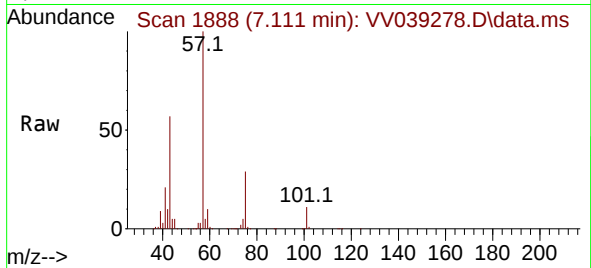




#54
 cis-1,3-Dichloropropene
 Concen: 6.958 ug/l
 RT: 7.111 min Scan# 11
 Delta R.T. 0.167 min
 Lab File: VV039278.D
 Acq: 06 Oct 2025 16:56

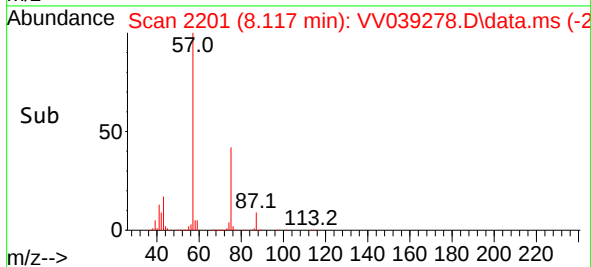
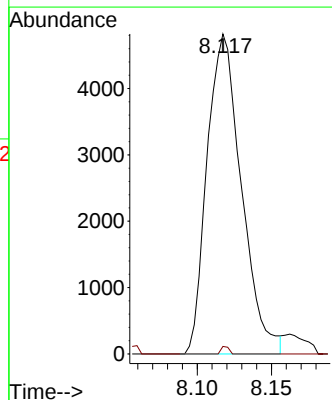
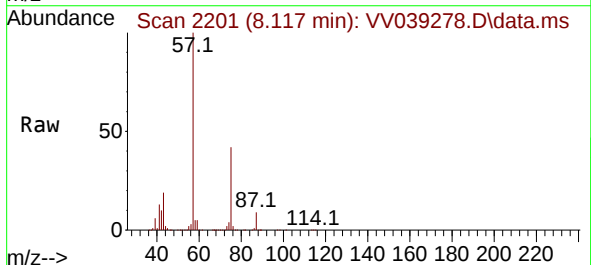
Instrument :
 MSVOA_V
 ClientSampleId :
 72-11966

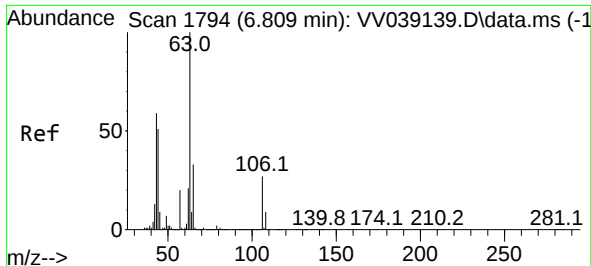
Tgt Ion: 75 Resp: 92811
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.5 38.3#
 39 31.0 33.8 50.6#



#57
 1,3-Dichloropropane
 Concen: 0.536 ug/l
 RT: 8.117 min Scan# 2201
 Delta R.T. 0.186 min
 Lab File: VV039278.D
 Acq: 06 Oct 2025 16:56

Tgt Ion: 76 Resp: 7756
 Ion Ratio Lower Upper
 76 100
 78 0.5 26.1 39.1#

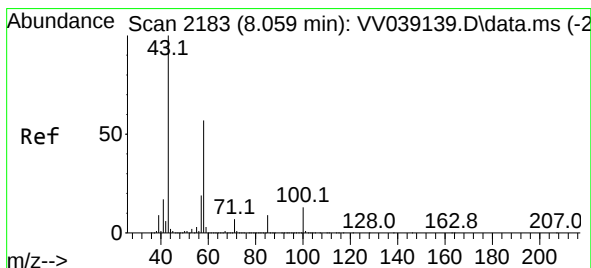
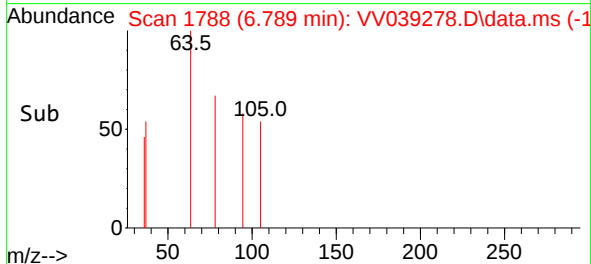
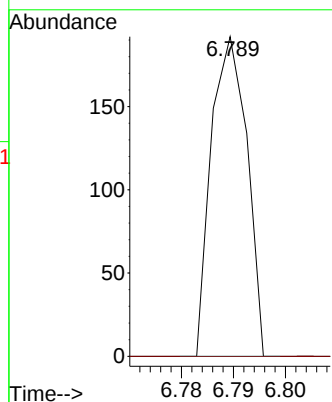
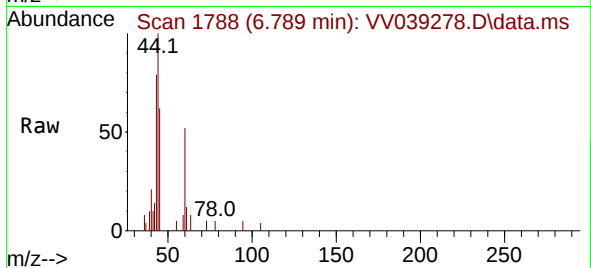




#58
2-Chloroethyl Vinyl ether
Concen: 9.637 ug/l
RT: 6.789 min Scan# 11
Delta R.T. -0.020 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

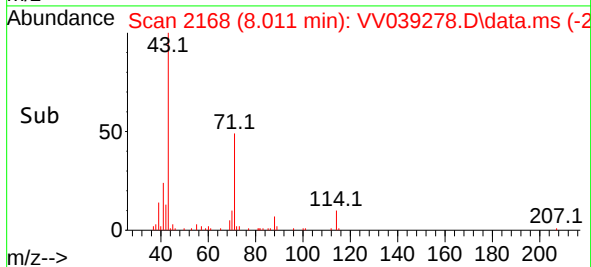
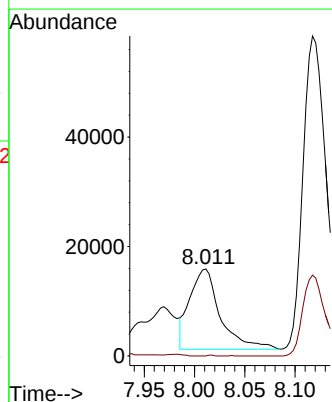
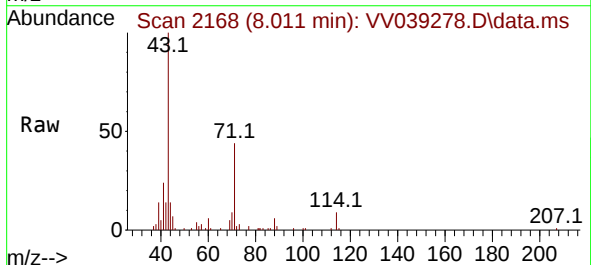
Instrument :
MSVOA_V
ClientSampleId :
72-11966

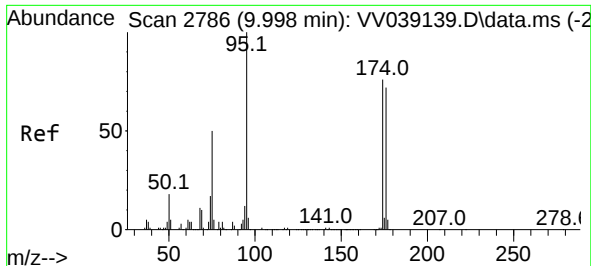
Tgt Ion: 63 Resp: 92
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 5.572 ug/l
RT: 8.011 min Scan# 2168
Delta R.T. -0.048 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 43 Resp: 31171
Ion Ratio Lower Upper
43 100
58 0.0 28.3 85.0#

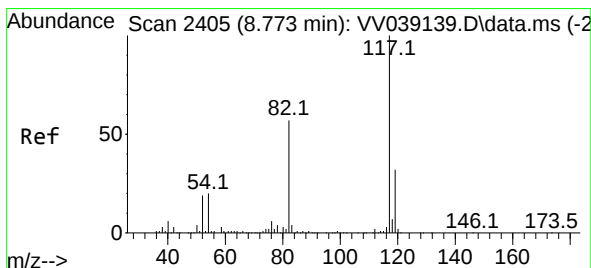
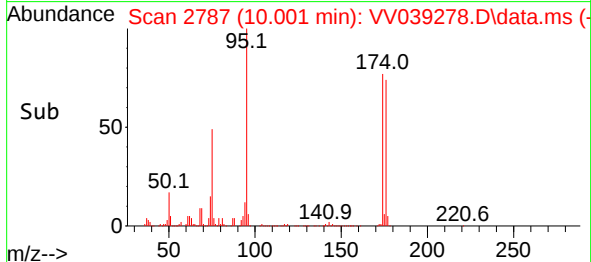
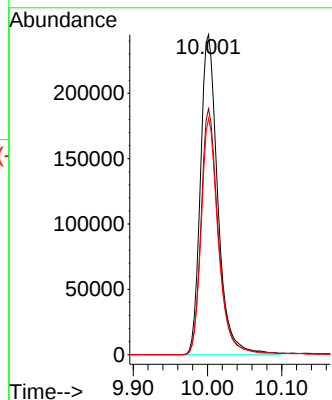
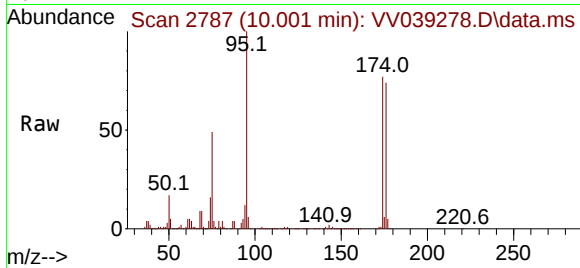




#62
4-Bromofluorobenzene
Concen: 45.937 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

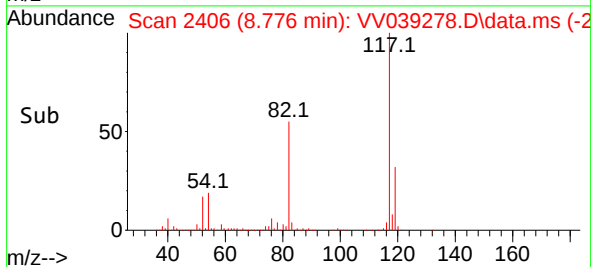
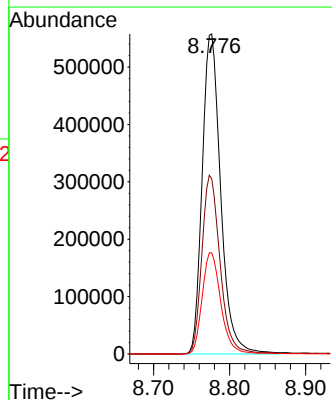
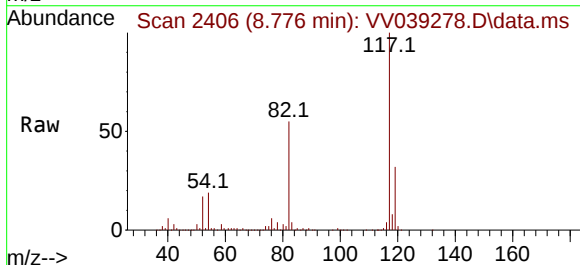
Instrument :
MSVOA_V
ClientSampleId :
72-11966

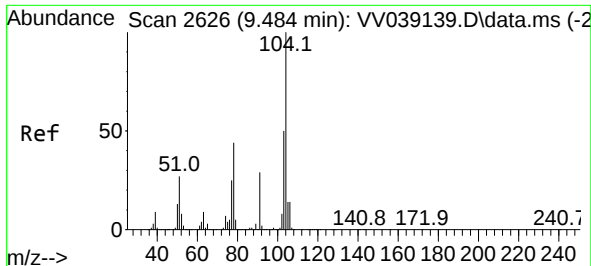
Tgt Ion: 95 Resp: 397701
Ion Ratio Lower Upper
95 100
174 76.5 0.0 150.4
176 73.4 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 117 Resp: 943455
Ion Ratio Lower Upper
117 100
82 54.8 45.4 68.2
119 31.6 25.6 38.4

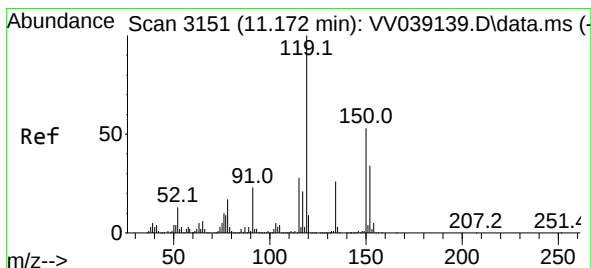
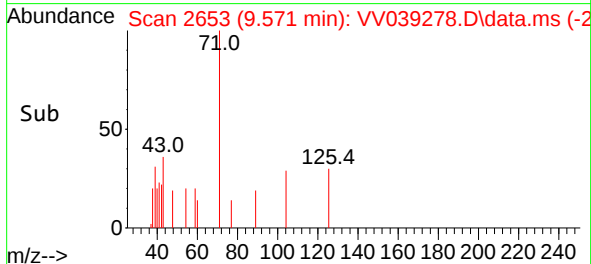
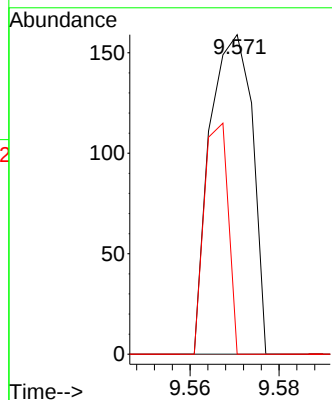
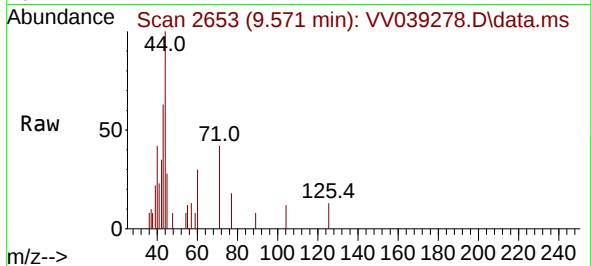




#70
Styrene
Concen: 1.565 ug/l
RT: 9.571 min Scan# 2653
Delta R.T. 0.087 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

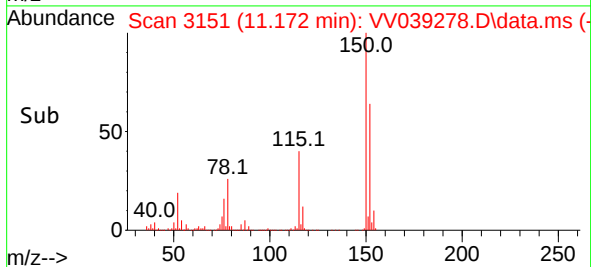
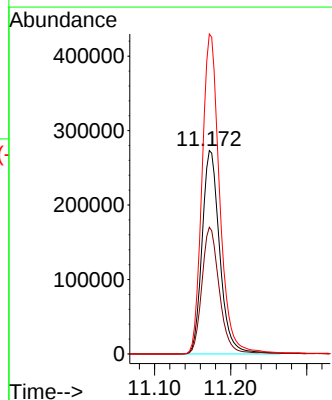
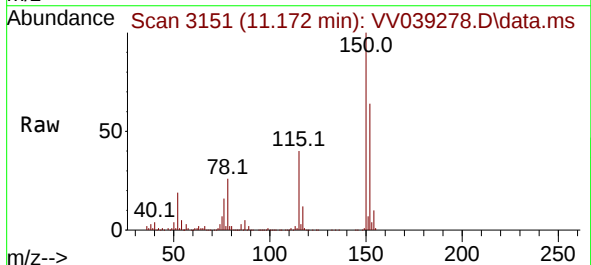
Instrument :
MSVOA_V
ClientSampleId :
72-11966

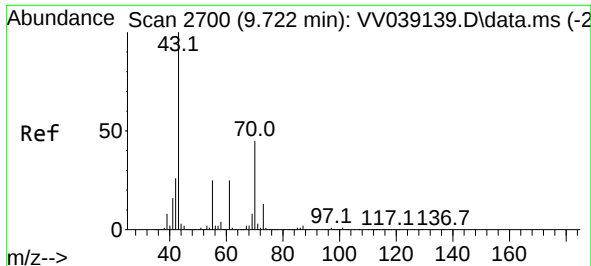
Tgt Ion:104 Resp: 105
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 41.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion:152 Resp: 440223
Ion Ratio Lower Upper
152 100
115 61.1 44.8 134.4
150 157.5 0.0 353.8

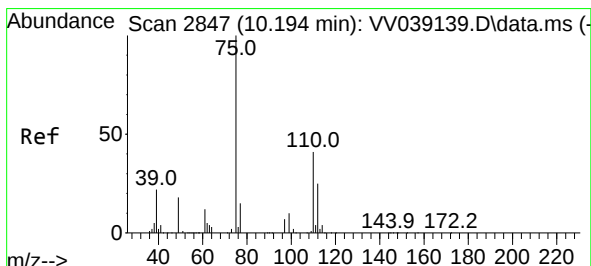
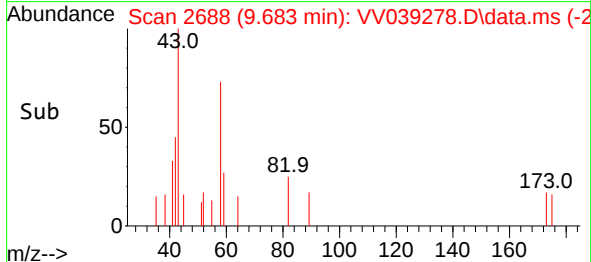
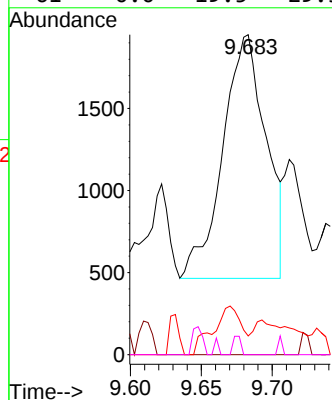
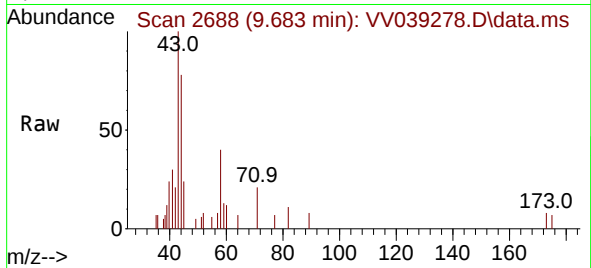




#74
N-amy1 acetate
Concen: 0.247 ug/l
RT: 9.683 min Scan# 211
Delta R.T. -0.039 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

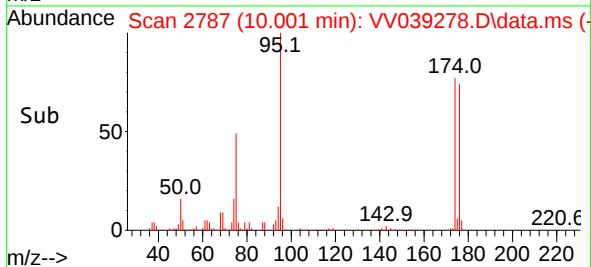
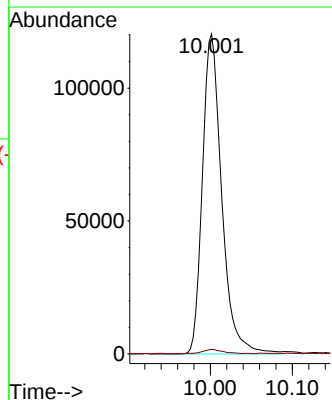
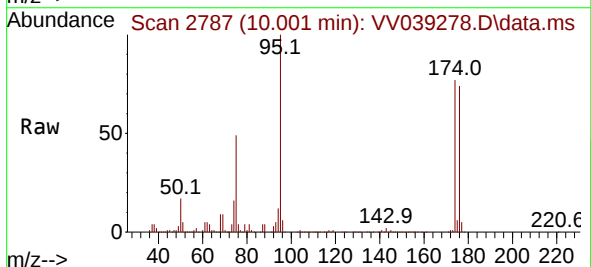
Instrument :
MSVOA_V
ClientSampleId :
72-11966

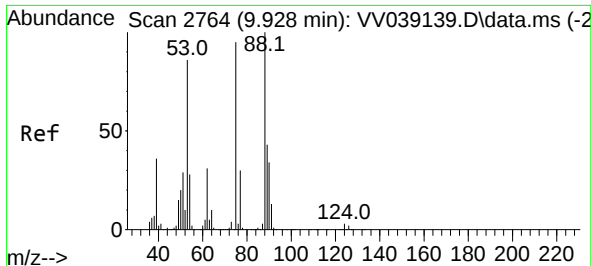
Tgt Ion: 43 Resp: 3149
Ion Ratio Lower Upper
43 100
70 0.0 35.4 53.0#
55 5.8 20.6 30.8#
61 0.0 19.5 29.3#



#76
1,2,3-Trichloropropane
Concen: 19.630 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.193 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 75 Resp: 196751
Ion Ratio Lower Upper
75 100
77 1.7 11.3 33.8#

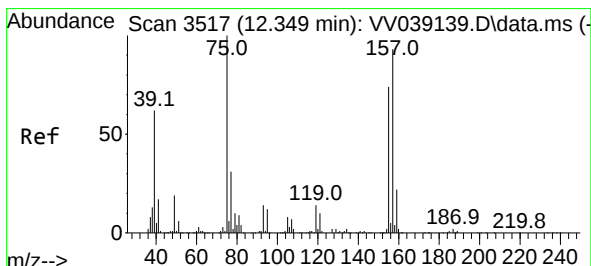
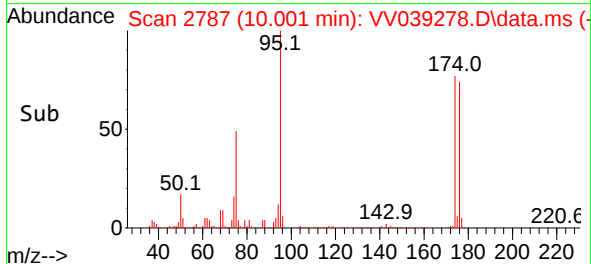
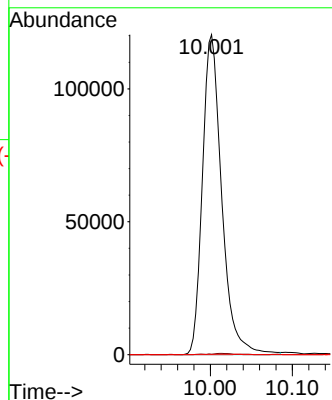
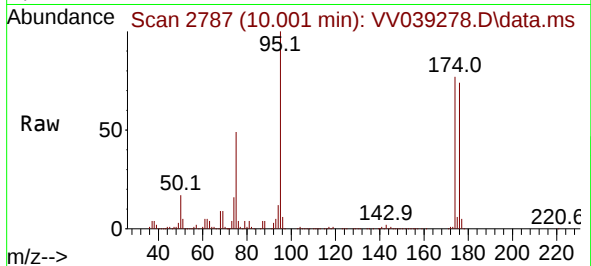




#81
trans-1,4-Dichloro-2-butene
Concen: 47.125 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Instrument :
MSVOA_V
ClientSampleId :
72-11966

Tgt Ion: 75 Resp: 196751
Ion Ratio Lower Upper
75 100
53 0.3 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.435 min Scan# 3544
Delta R.T. 0.086 min
Lab File: VV039278.D
Acq: 06 Oct 2025 16:56

Tgt Ion: 75 Resp: 70
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

