

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
 Data File : VY023034.D
 Acq On : 21 Jul 2025 18:07
 Operator : SY/MD
 Sample : Q2651-05
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MH 9-8

Quant Time: Jul 22 04:55:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 19 01:50:49 2025
 Response via : Initial Calibration

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

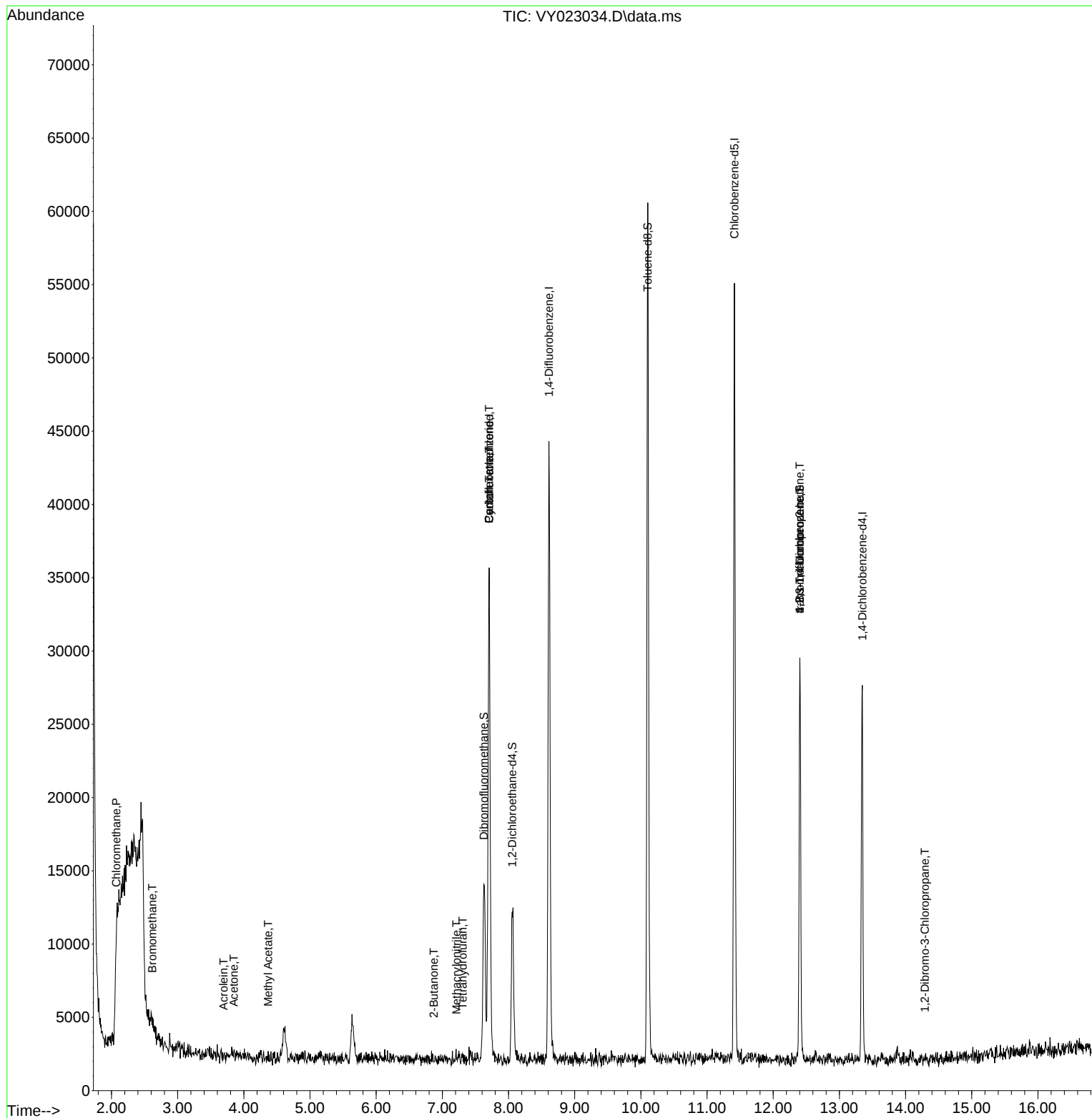
Internal Standards						
1) Pentafluorobenzene	7.707	168	24921	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	36083	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	27729	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	6236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	8778	34.794	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	69.580%
35) Dibromofluoromethane	7.628	113	9450	41.287	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	82.580%
50) Toluene-d8	10.103	98	38946	42.907	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.820%
62) 4-Bromofluorobenzene	12.402	95	8475	29.662	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	59.320%
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	758	2.107	ug/l #	81
5) Bromomethane	2.617	94	439	1.334	ug/l	97
13) Acrolein	3.696	56	26	3.626	ug/l #	13
16) Acetone	3.848	43	253	5.532	ug/l #	42
18) Methyl Acetate	4.366	43	188	1.214	ug/l #	50
20) Methylene Chloride	4.610	84	1534	Below Cal	#	80
25) 2-Butanone	6.872	43	79	1.204	ug/l #	46
29) Tetrahydrofuran	7.305	42	86	2.070	ug/l #	31
31) Cyclohexane	7.707	56	801	1.595	ug/l #	20
38) Carbon Tetrachloride	7.707	117	2580	6.587	ug/l #	24
41) Methacrylonitrile	7.213	41	123	1.686	ug/l #	28
76) 1,2,3-Trichloropropane	12.402	75	4527	58.258	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	4527	173.520	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.291	75	21	1.849	ug/l #	1

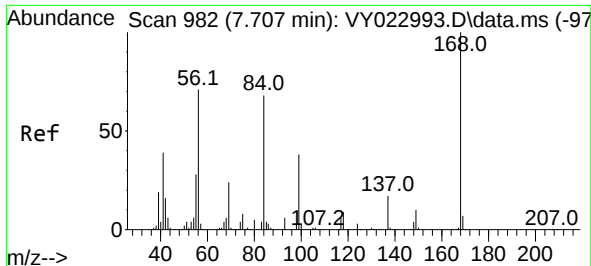
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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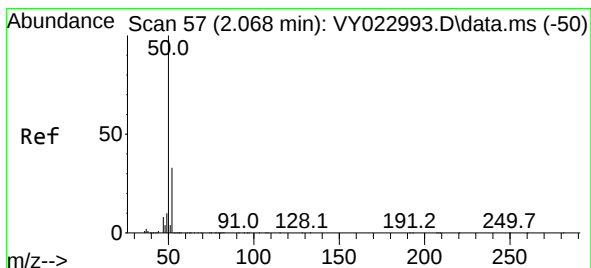
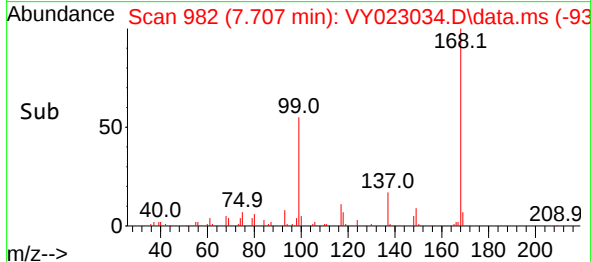
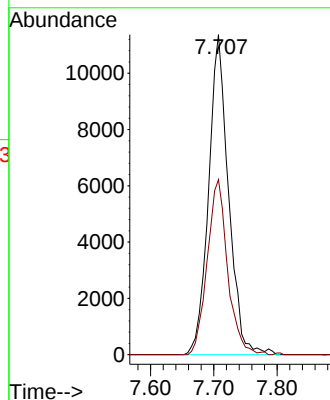
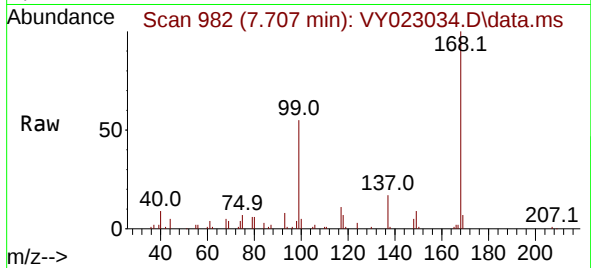




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

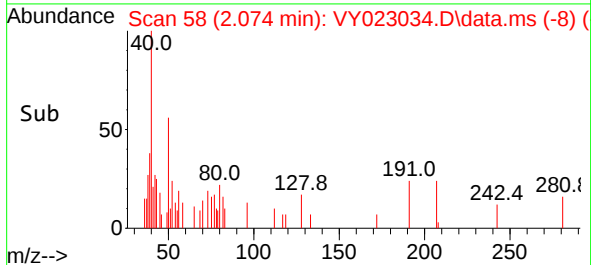
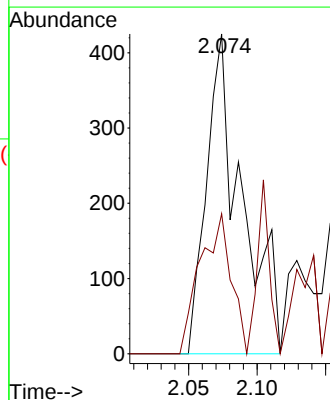
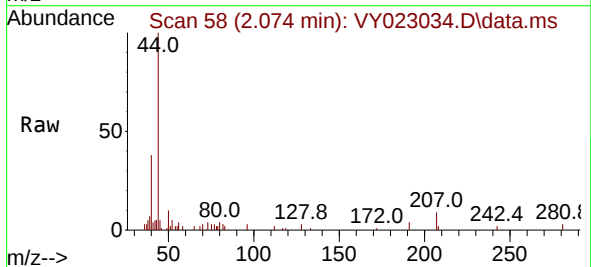
Instrument :
MSVOA_Y
ClientSampleId :
MH 9-8

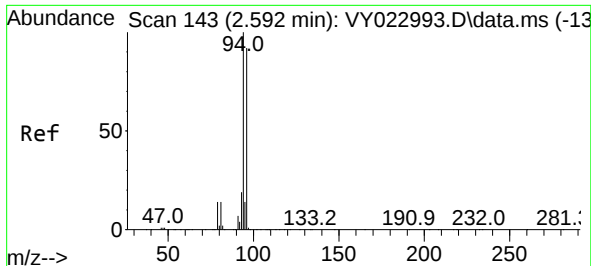
Tgt Ion:168 Resp: 24921
Ion Ratio Lower Upper
168 100
99 54.7 44.4 66.6



#3
Chloromethane
Concen: 2.107 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

Tgt Ion: 50 Resp: 758
Ion Ratio Lower Upper
50 100
52 43.8 26.6 39.8#

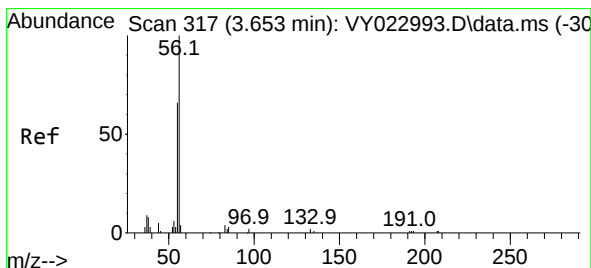
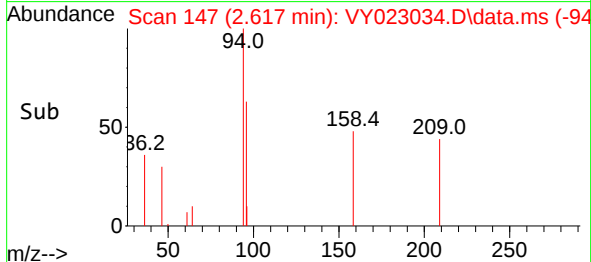
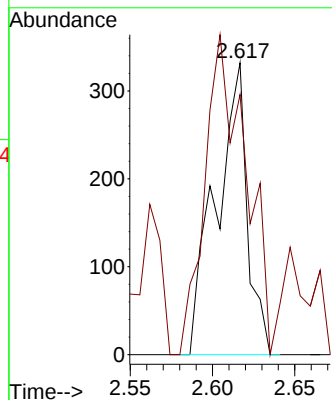
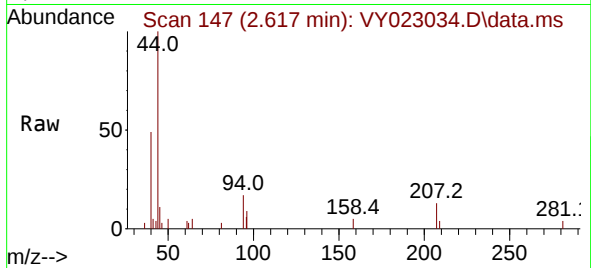




#5
Bromomethane
Concen: 1.334 ug/l
RT: 2.617 min Scan# 14
Delta R.T. 0.024 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

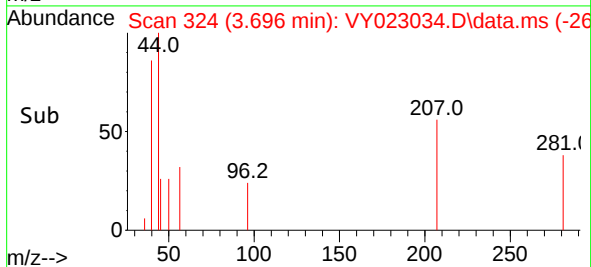
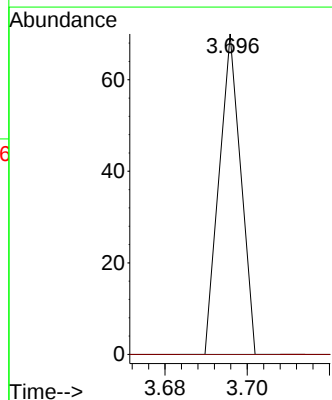
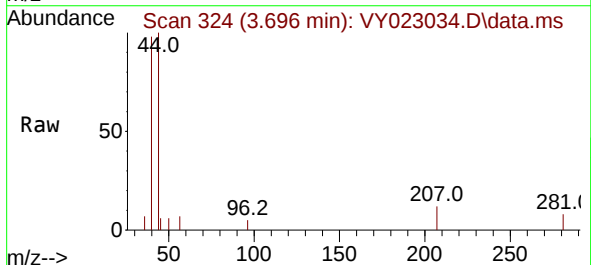
Instrument :
MSVOA_Y
ClientSampleId :
MH 9-8

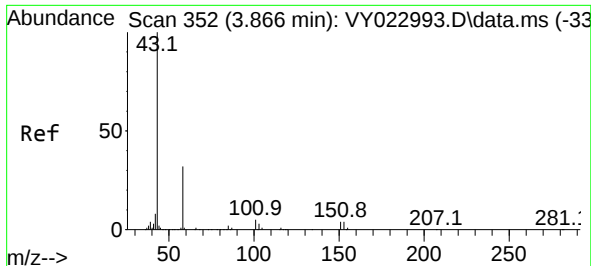
Tgt Ion: 94 Resp: 439
Ion Ratio Lower Upper
94 100
96 89.2 73.9 110.9



#13
Acrolein
Concen: 3.626 ug/l
RT: 3.696 min Scan# 324
Delta R.T. 0.043 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 57.8 86.6#

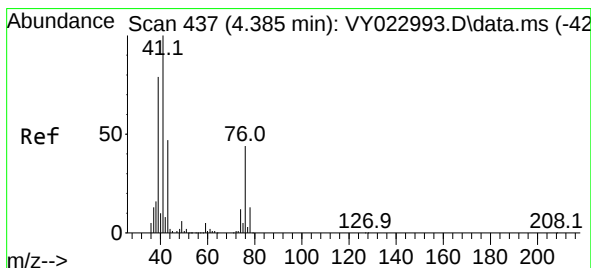
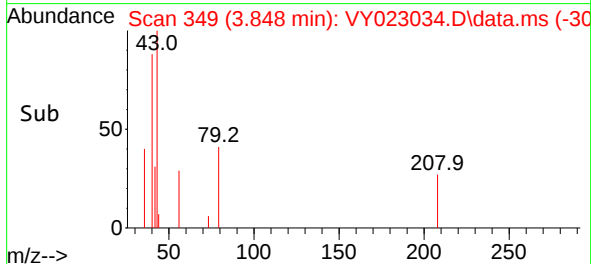
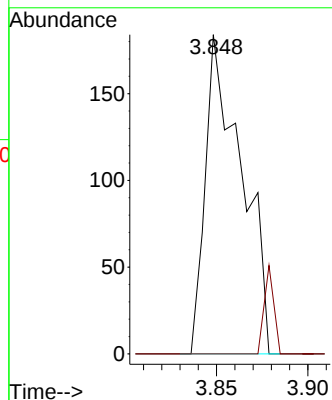
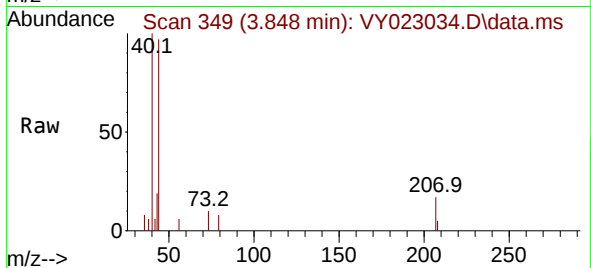




#16
Acetone
Concen: 5.532 ug/l
RT: 3.848 min Scan# 349
Delta R.T. -0.018 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

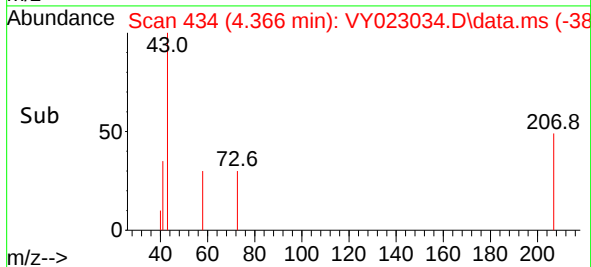
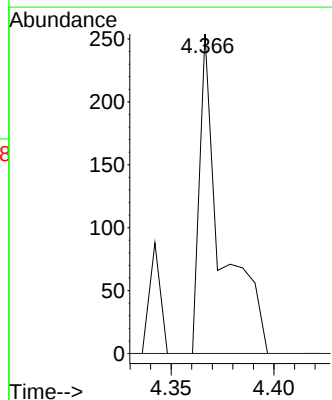
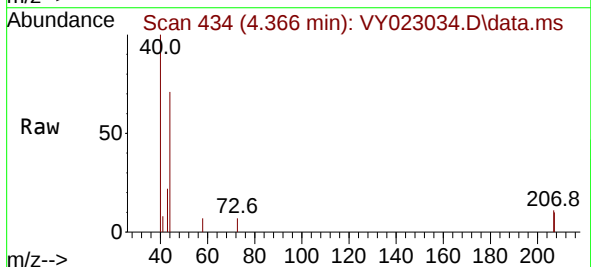
Instrument :
MSVOA_Y
ClientSampleId :
MH 9-8

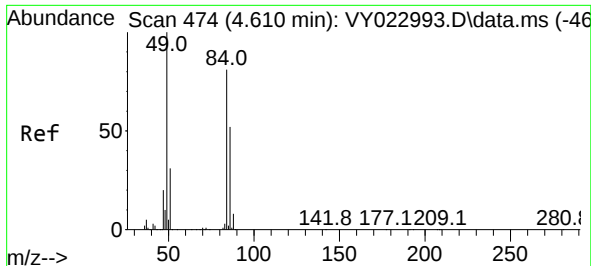
Tgt Ion: 43 Resp: 253
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.4#



#18
Methyl Acetate
Concen: 1.214 ug/l
RT: 4.366 min Scan# 434
Delta R.T. -0.018 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

Tgt Ion: 43 Resp: 188
Ion Ratio Lower Upper
43 100
74 0.0 20.1 30.1#

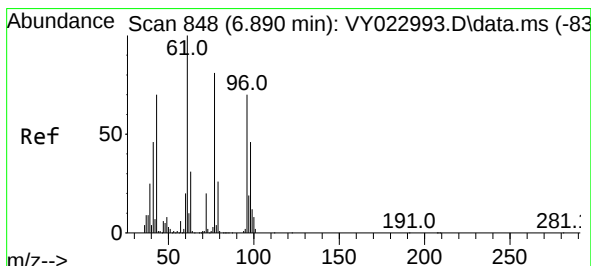
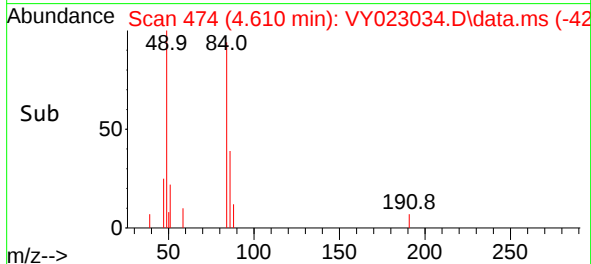
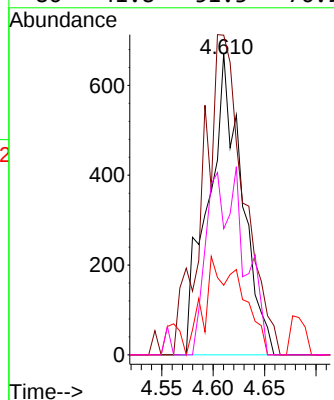
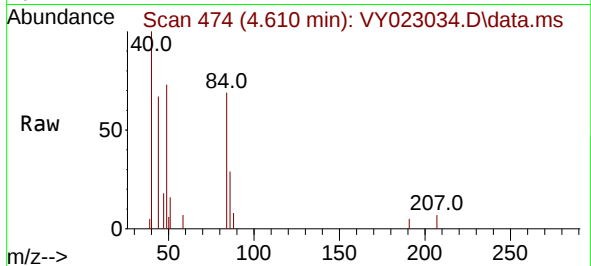




#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

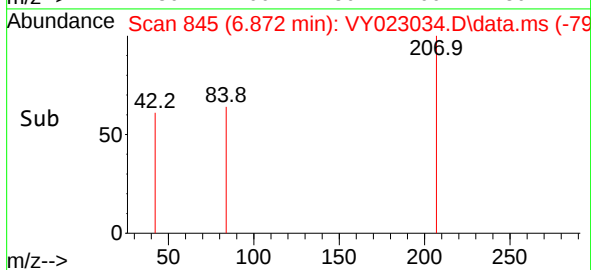
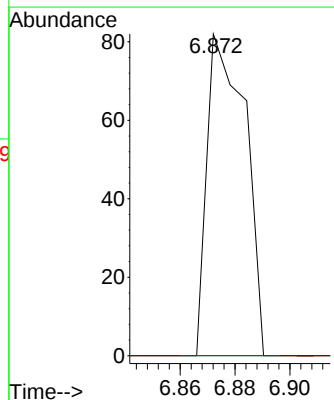
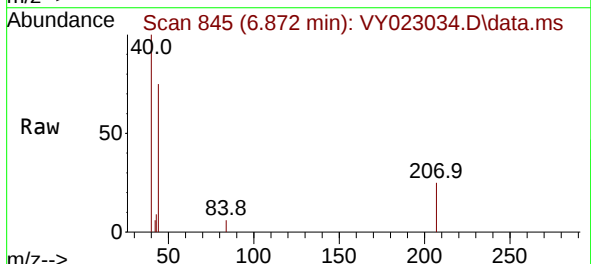
Instrument :
MSVOA_Y
ClientSampleId :
MH 9-8

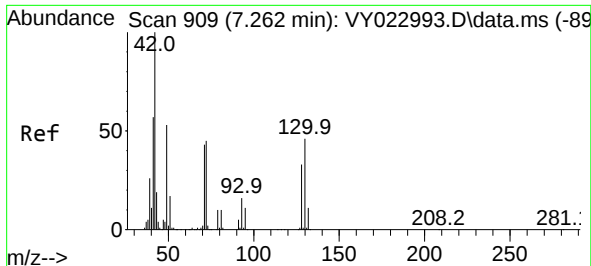
Tgt Ion:	84	Resp:	1534
Ion	Ratio	Lower	Upper
84	100		
49	106.0	98.2	147.4
51	23.1	30.5	45.7#
86	41.8	51.3	76.9#



#25
2-Butanone
Concen: 1.204 ug/l
RT: 6.872 min Scan# 845
Delta R.T. -0.018 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

Tgt Ion:	43	Resp:	79
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.9	34.3#





#29

Tetrahydrofuran

Concen: 2.070 ug/l

RT: 7.305 min Scan# 916

Delta R.T. 0.043 min

Lab File: VY023034.D

Acq: 21 Jul 2025 18:07

Instrument :

MSVOA_Y

ClientSampleId :

MH 9-8

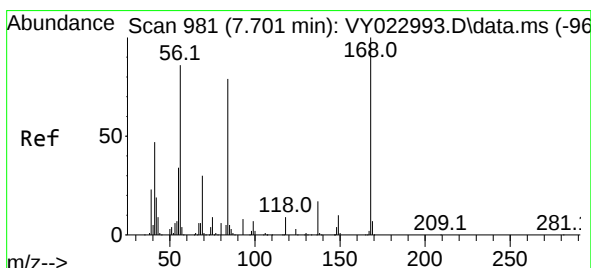
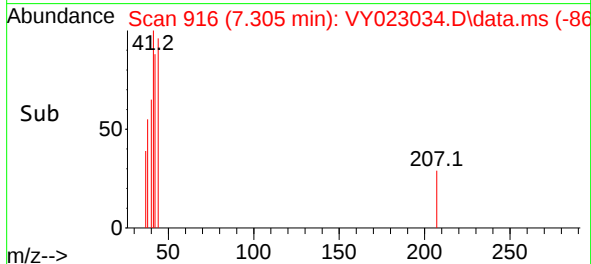
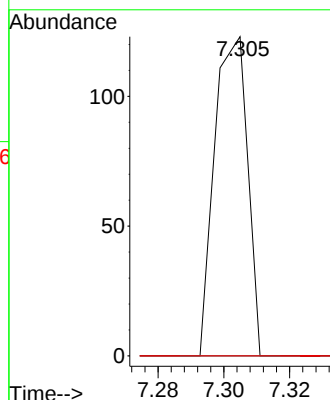
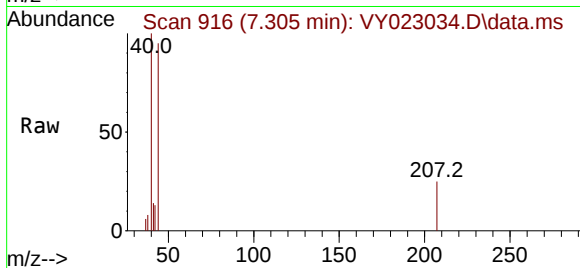
Tgt Ion: 42 Resp: 86

Ion Ratio Lower Upper

42 100

72 0.0 37.5 56.3#

71 0.0 34.2 51.4#



#31

Cyclohexane

Concen: 1.595 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.006 min

Lab File: VY023034.D

Acq: 21 Jul 2025 18:07

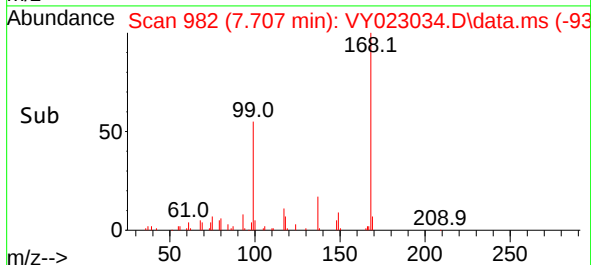
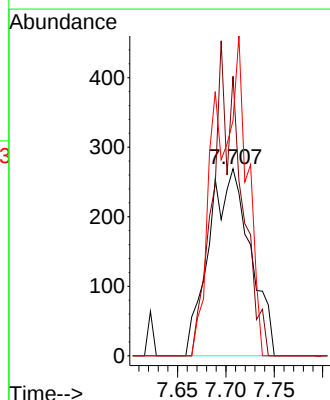
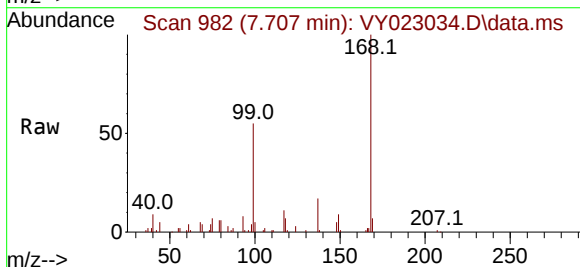
Tgt Ion: 56 Resp: 801

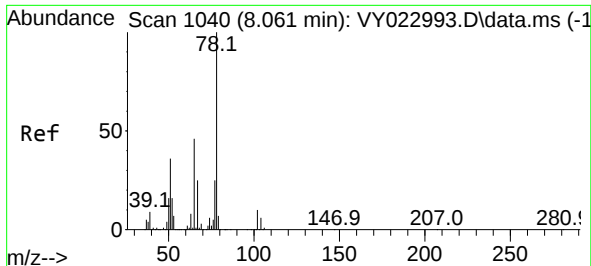
Ion Ratio Lower Upper

56 100

69 149.4 28.1 42.1#

84 125.7 73.5 110.3#





#33

1,2-Dichloroethane-d4

Concen: 34.794 ug/l

RT: 8.055 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY023034.D

Acq: 21 Jul 2025 18:07

Instrument :

MSVOA_Y

ClientSampleId :

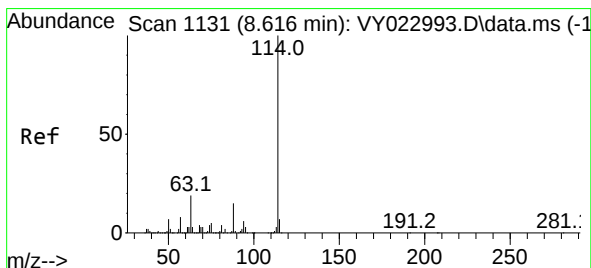
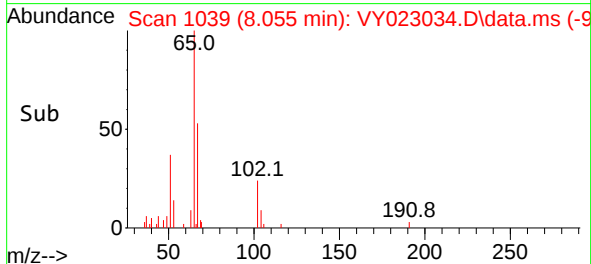
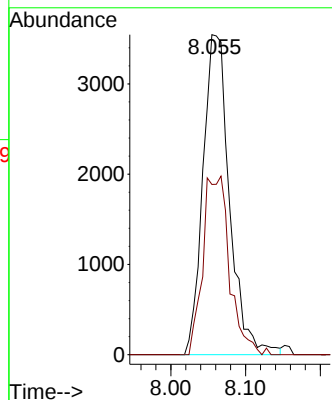
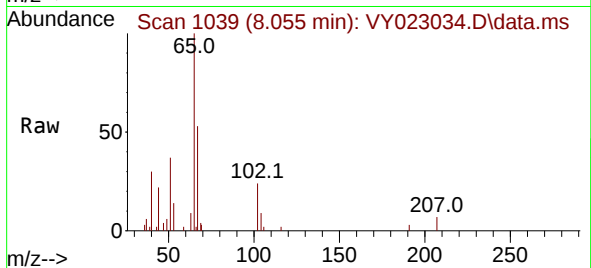
MH 9-8

Tgt Ion: 65 Resp: 8778

Ion Ratio Lower Upper

65 100

67 55.5 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY023034.D

Acq: 21 Jul 2025 18:07

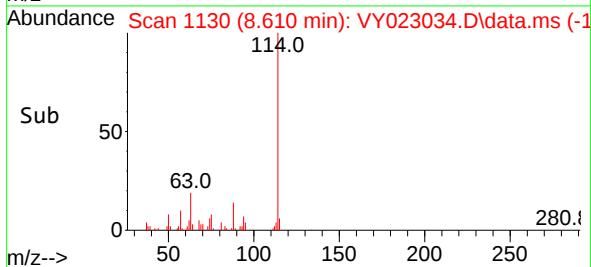
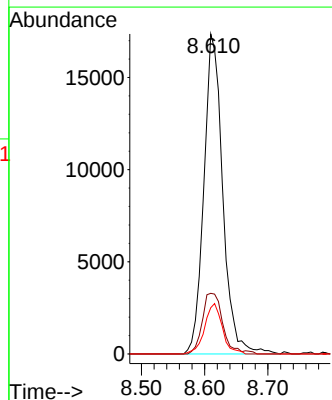
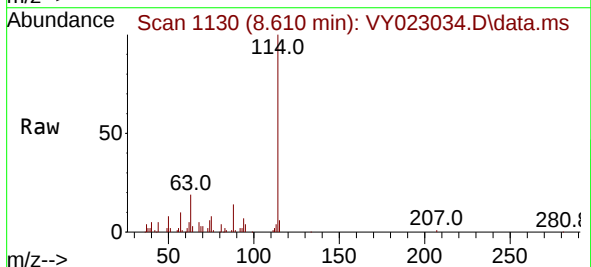
Tgt Ion: 114 Resp: 36083

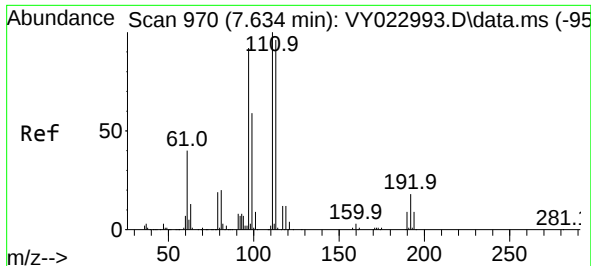
Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.8

88 14.5 0.0 30.2

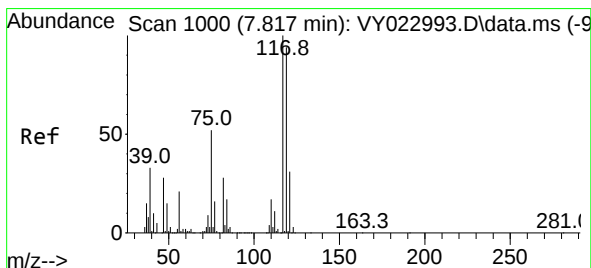
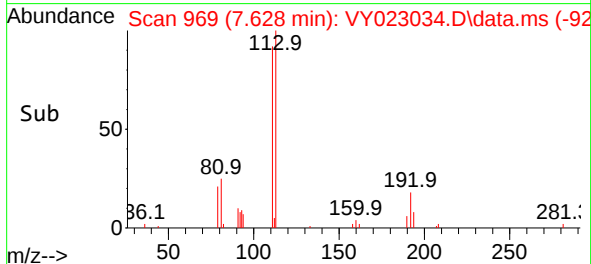
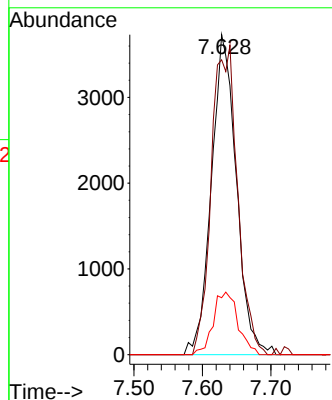
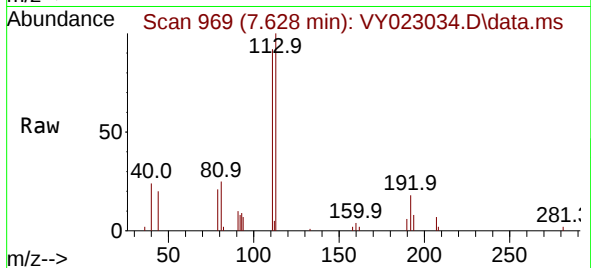




#35
Dibromofluoromethane
Concen: 41.287 ug/l
RT: 7.628 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

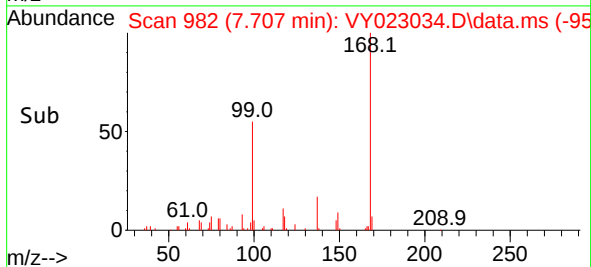
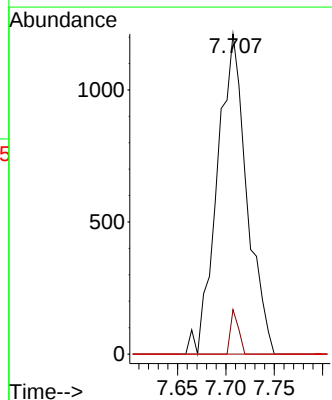
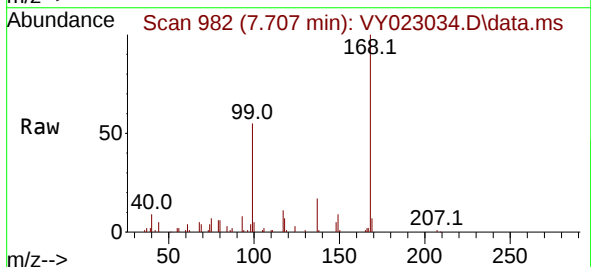
Instrument :
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MH 9-8

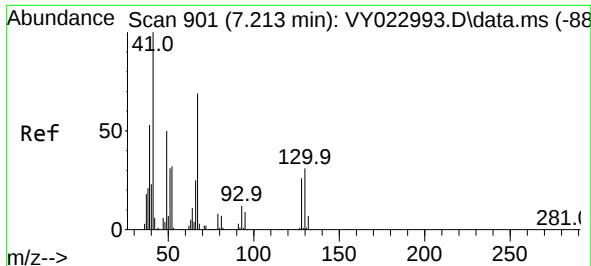
Tgt Ion:113 Resp: 9450
Ion Ratio Lower Upper
113 100
111 100.8 83.2 124.8
192 19.4 15.3 22.9



#38
Carbon Tetrachloride
Concen: 6.587 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.110 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

Tgt Ion:117 Resp: 2580
Ion Ratio Lower Upper
117 100
119 13.9 74.9 112.3#
121 0.0 24.6 37.0#

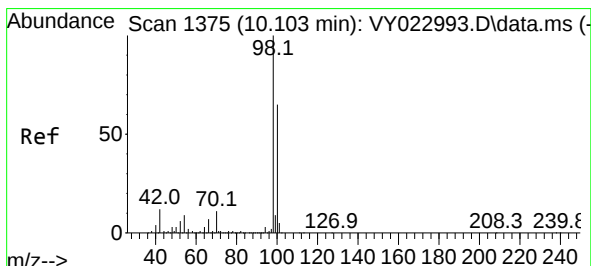
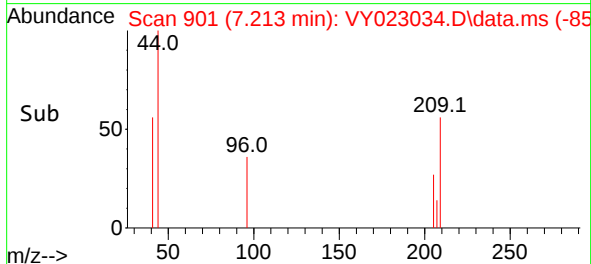
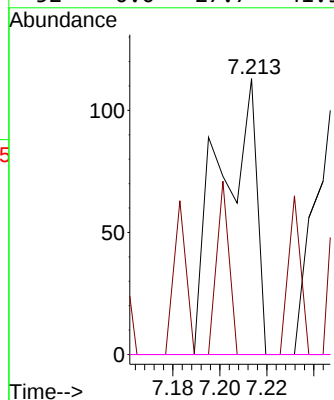
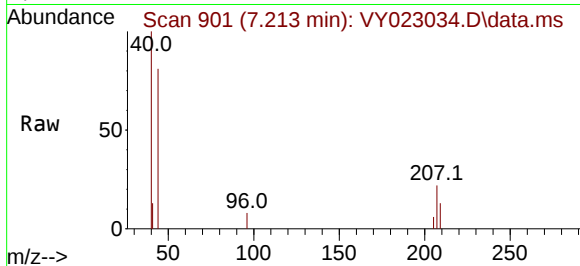




#41
Methacrylonitrile
Concen: 1.686 ug/l
RT: 7.213 min Scan# 901
Delta R.T. 0.000 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

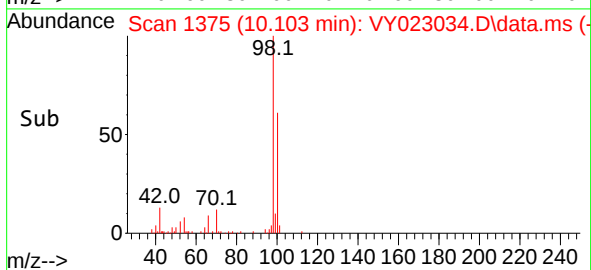
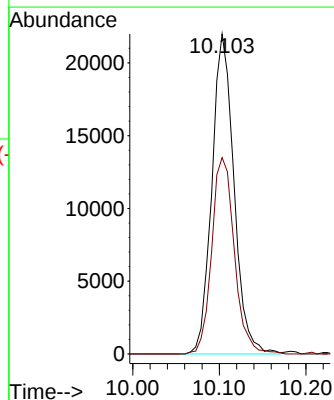
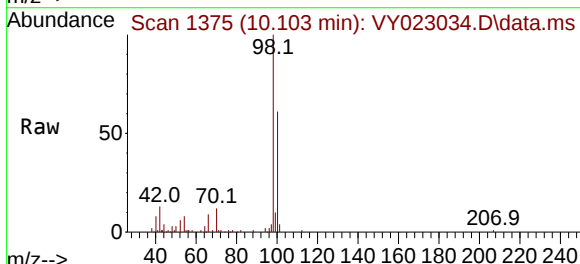
Instrument :
MSVOA_Y
ClientSampleId :
MH 9-8

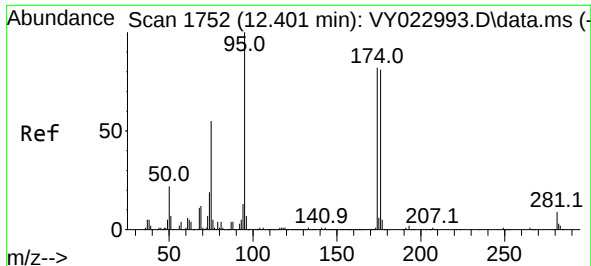
Tgt Ion:	41	Resp:	123
Ion	Ratio	Lower	Upper
41	100		
39	21.1	50.0	75.0#
67	0.0	65.4	98.2#
52	0.0	27.7	41.5#



#50
Toluene-d8
Concen: 42.907 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

Tgt Ion:	98	Resp:	38946
Ion	Ratio	Lower	Upper
98	100		
100	62.9	52.2	78.2

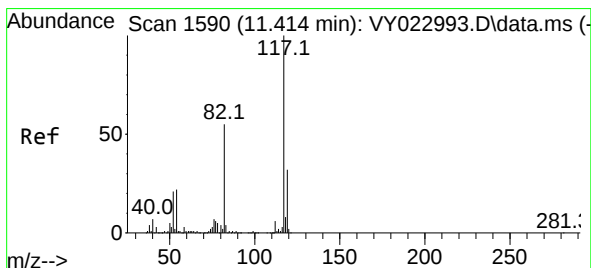
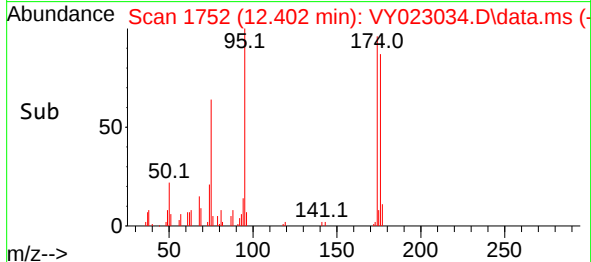
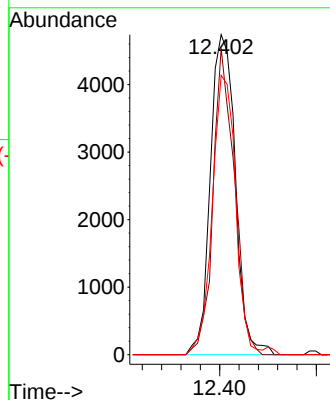
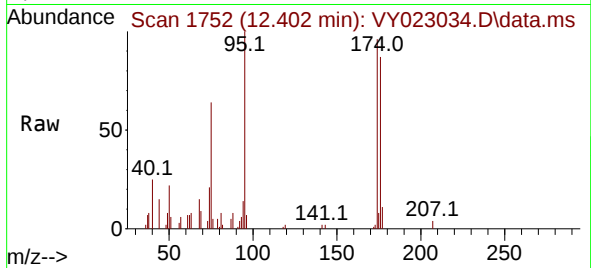




#62
4-Bromofluorobenzene
Concen: 29.662 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

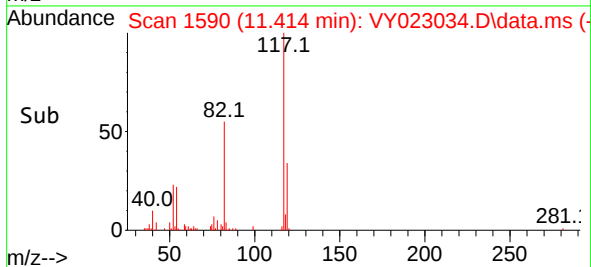
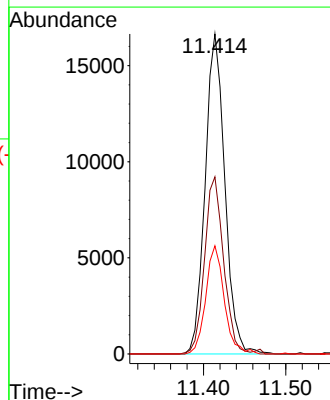
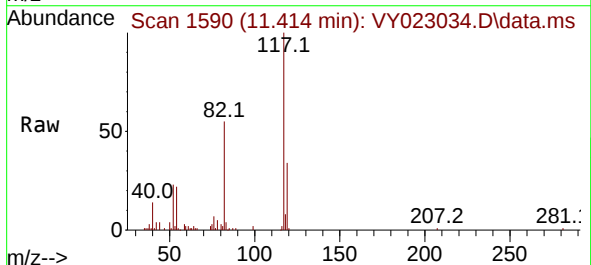
Instrument :
MSVOA_Y
ClientSampleId :
MH 9-8

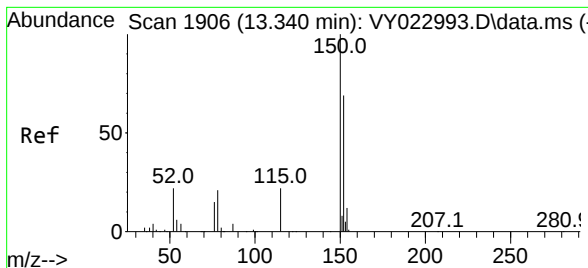
Tgt Ion: 95 Resp: 8475
Ion Ratio Lower Upper
95 100
174 82.0 0.0 170.8
176 82.4 0.0 163.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY023034.D
Acq: 21 Jul 2025 18:07

Tgt Ion: 117 Resp: 27729
Ion Ratio Lower Upper
117 100
82 55.3 44.3 66.5
119 33.8 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1906

Delta R.T. 0.006 min

Lab File: VY023034.D

Acq: 21 Jul 2025 18:07

Instrument :

MSVOA_Y

ClientSampleId :

MH 9-8

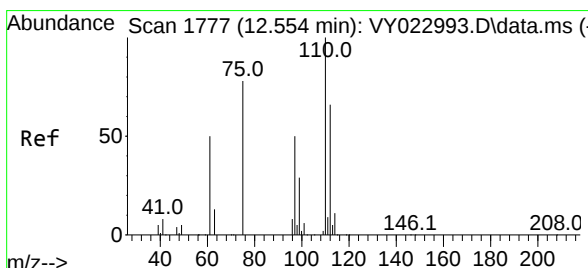
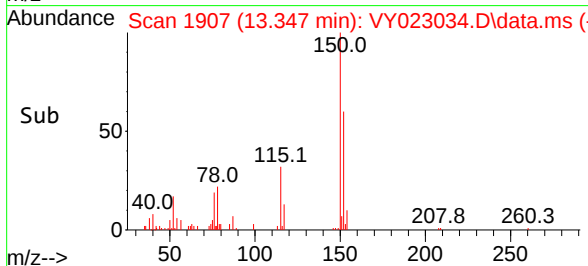
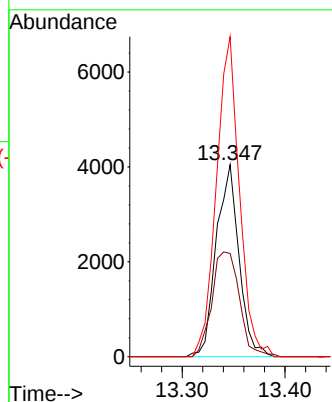
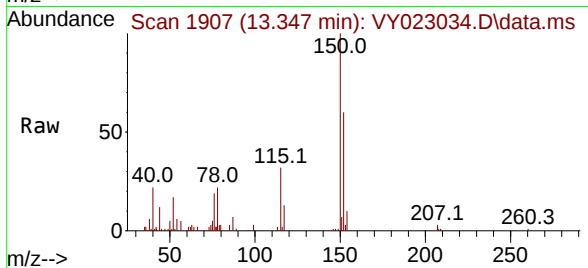
Tgt Ion:152 Resp: 6236

Ion Ratio Lower Upper

152 100

115 66.1 29.4 88.2

150 168.0 0.0 350.0



#76

1,2,3-Trichloropropane

Concen: 58.258 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY023034.D

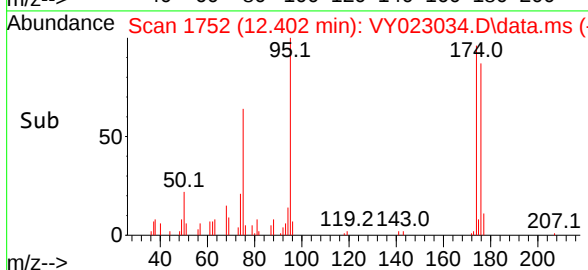
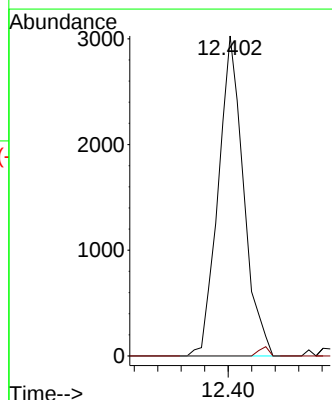
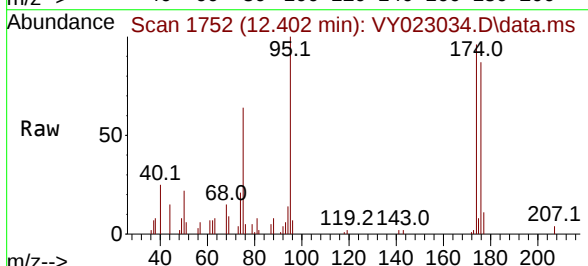
Acq: 21 Jul 2025 18:07

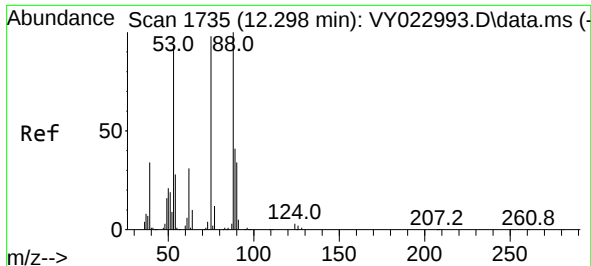
Tgt Ion: 75 Resp: 4527

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

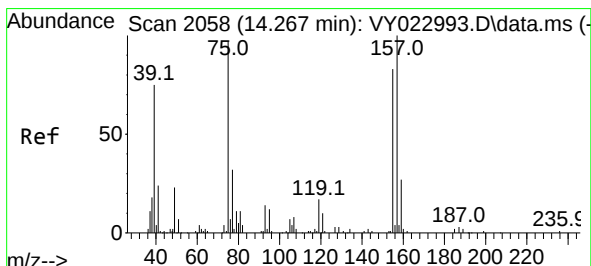
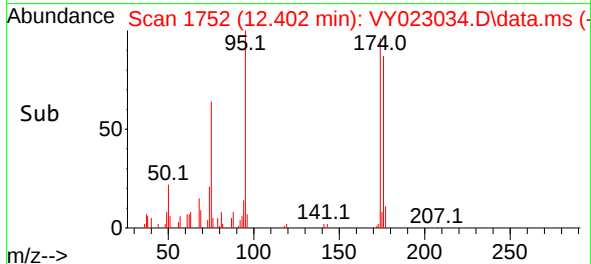
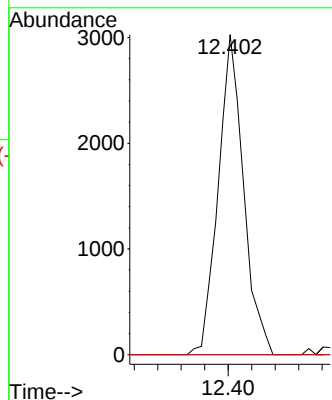
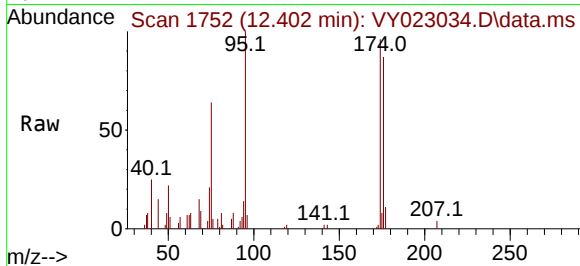




#81
 trans-1,4-Dichloro-2-butene
 Concen: 173.520 ug/l
 RT: 12.402 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY023034.D
 Acq: 21 Jul 2025 18:07

Instrument :
 MSVOA_Y
 ClientSampleId :
 MH 9-8

Tgt Ion: 75 Resp: 4527
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.1 114.1#
 89 0.0 36.1 54.1#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.849 ug/l
 RT: 14.291 min Scan# 2062
 Delta R.T. 0.024 min
 Lab File: VY023034.D
 Acq: 21 Jul 2025 18:07

Tgt Ion: 75 Resp: 21
 Ion Ratio Lower Upper
 75 100
 155 0.0 42.8 128.3#
 157 0.0 54.3 162.9#

