

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
 Data File : VY022548.D
 Acq On : 04 Jun 2025 14:13
 Operator : SY/MD
 Sample : Q2194-03
 Misc : 5.88g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 COMP-13

Quant Time: Jun 05 04:15:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	39177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	62447	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	44233	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	13734	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	18632	42.522	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	85.040%
35) Dibromofluoromethane	7.628	113	19154	51.388	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.780%
50) Toluene-d8	10.103	98	71429	47.427	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.860%
62) 4-Bromofluorobenzene	12.402	95	15783	35.172	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	70.340%

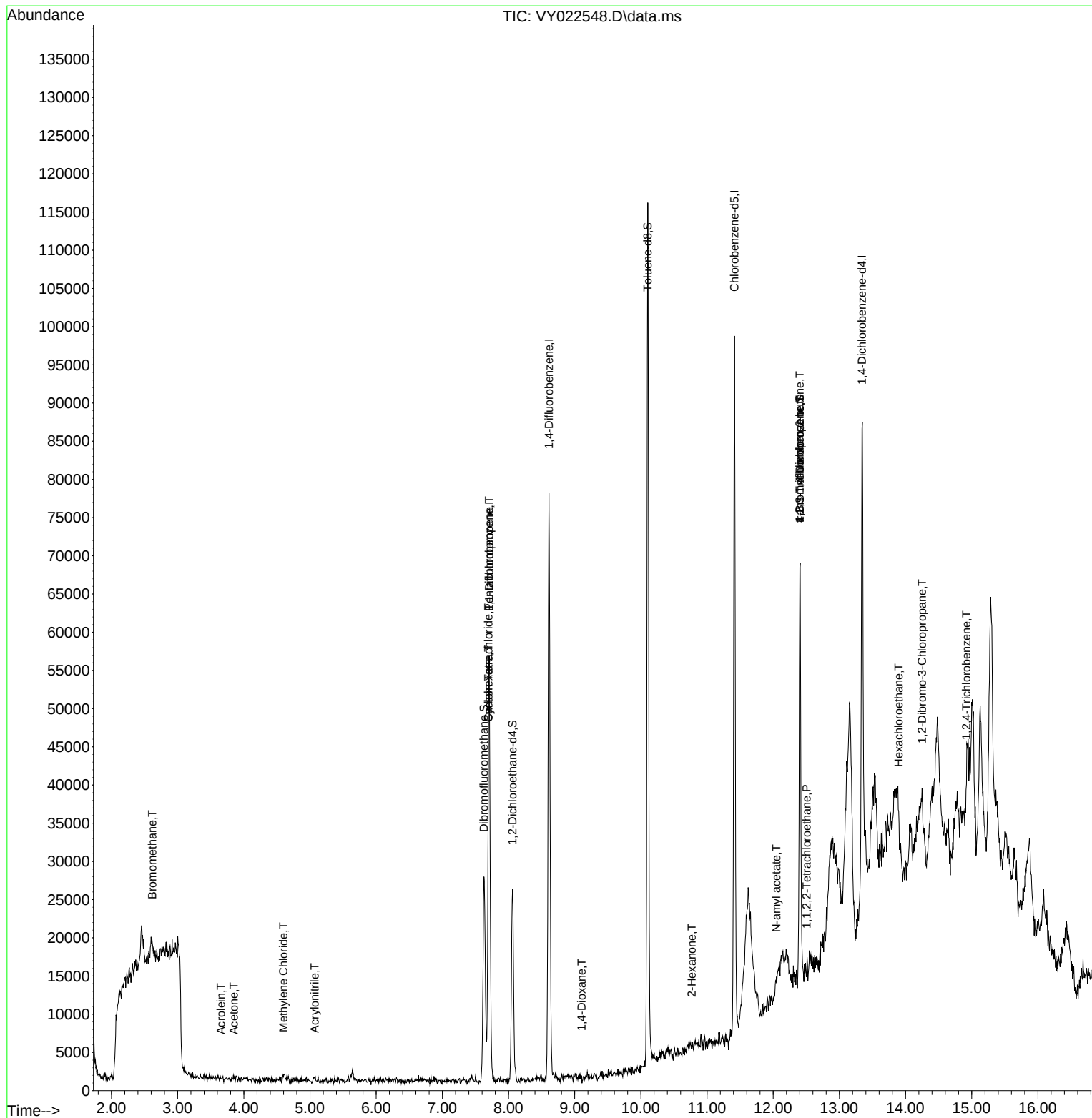
Target Compounds			Qvalue			
5) Bromomethane	2.617	94	1351	1.173	ug/l #	41
13) Acrolein	3.653	56	45	1.154	ug/l #	14
15) Acrylonitrile	5.068	53	125	1.284	ug/l #	37
16) Acetone	3.848	43	240	2.697	ug/l #	45
20) Methylene Chloride	4.598	84	532	1.052	ug/l #	47
31) Cyclohexane	7.695	56	1293	1.536	ug/l #	53
36) 1,1-Dichloropropene	7.707	75	3528	5.832	ug/l #	48
38) Carbon Tetrachloride	7.695	117	4585	7.388	ug/l #	17
49) 1,4-Dioxane	9.103	88	20	7.106	ug/l #	1
59) 2-Hexanone	10.768	43	227	1.168	ug/l #	59
74) N-amyl acetate	12.048	43	604	2.123	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.505	83	410	2.215	ug/l #	69
76) 1,2,3-Trichloropropane	12.402	75	9267	58.980	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	9267	142.432	ug/l #	11
90) Hexachloroethane	13.895	117	210	1.075	ug/l #	38
92) 1,2-Dibromo-3-Chloropr...	14.249	75	67	2.487	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.919	180	225	1.008	ug/l #	1

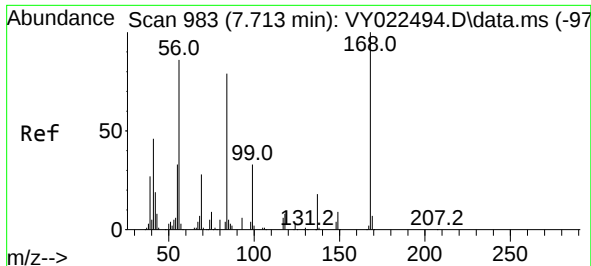
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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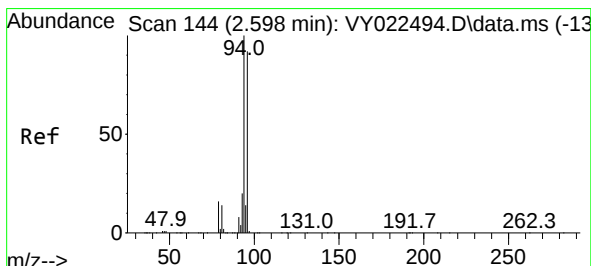
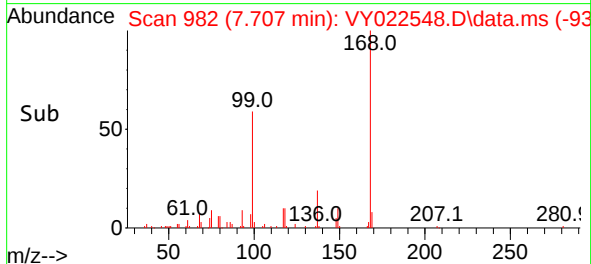
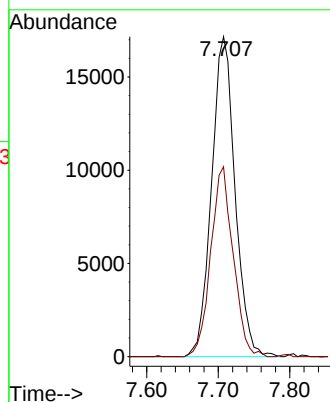
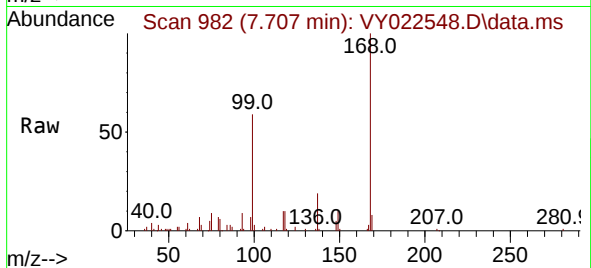




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

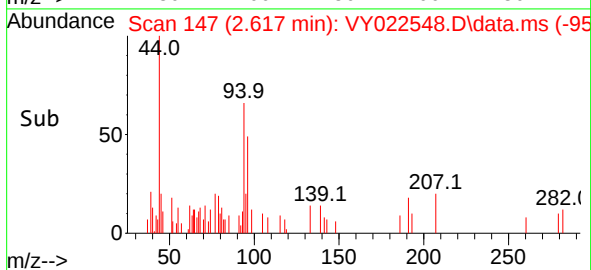
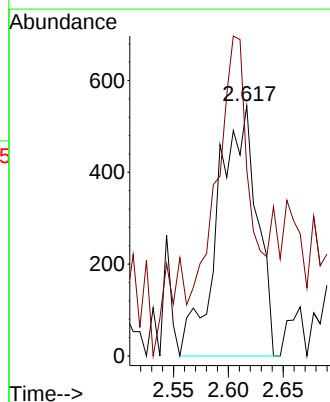
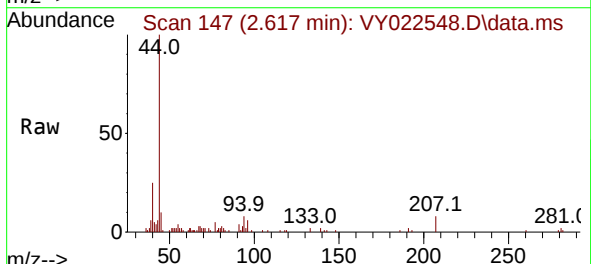
Instrument :
MSVOA_Y
ClientSampleId :
COMP-13

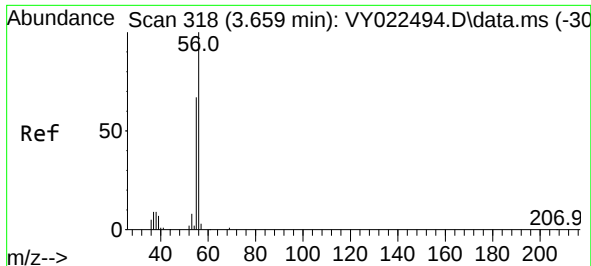
Tgt Ion:168 Resp: 39177
Ion Ratio Lower Upper
168 100
99 59.4 44.3 66.5



#5
Bromomethane
Concen: 1.173 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.018 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

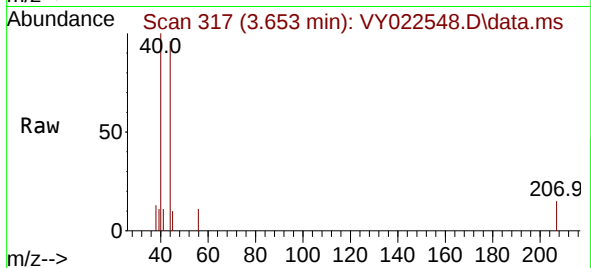
Tgt Ion: 94 Resp: 1351
Ion Ratio Lower Upper
94 100
96 35.8 74.0 111.0#



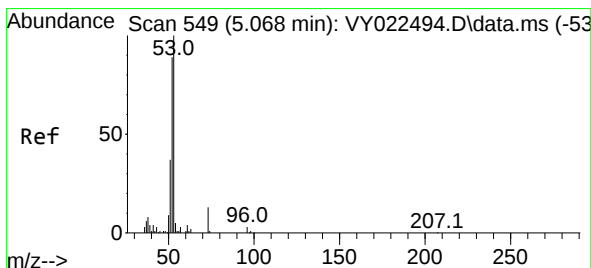
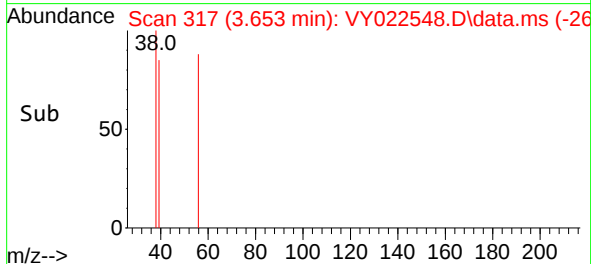
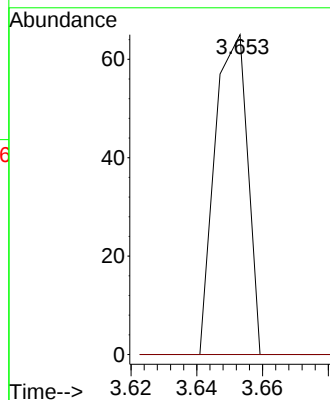


#13
Acrolein
Concen: 1.154 ug/l
RT: 3.653 min Scan# 317
Delta R.T. -0.006 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

Instrument :
MSVOA_Y
ClientSampleId :
COMP-13

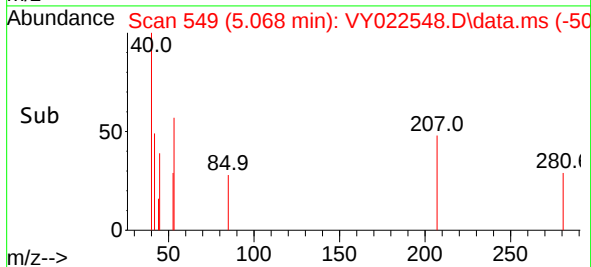
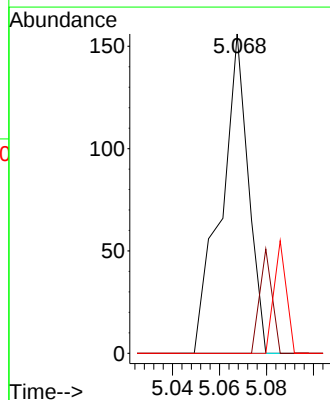
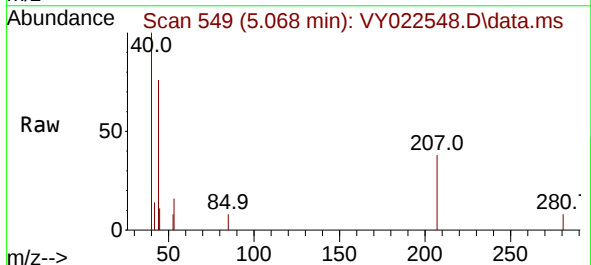


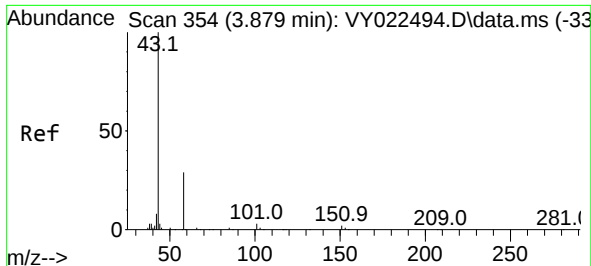
Tgt Ion: 56 Resp: 45
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#



#15
Acrylonitrile
Concen: 1.284 ug/l
RT: 5.068 min Scan# 549
Delta R.T. -0.000 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

Tgt Ion: 53 Resp: 125
Ion Ratio Lower Upper
53 100
52 15.2 65.7 98.5#
51 16.0 30.1 45.1#

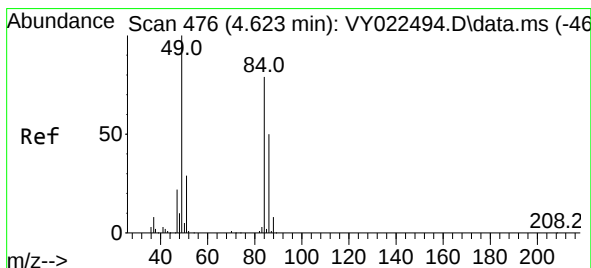
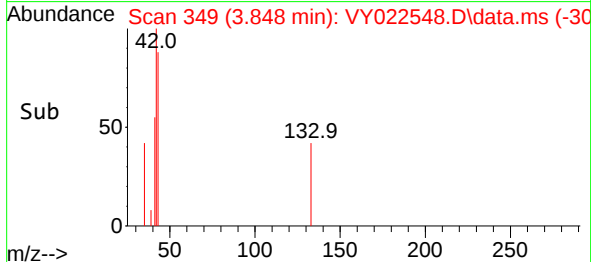
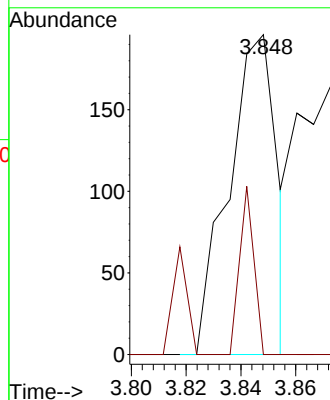
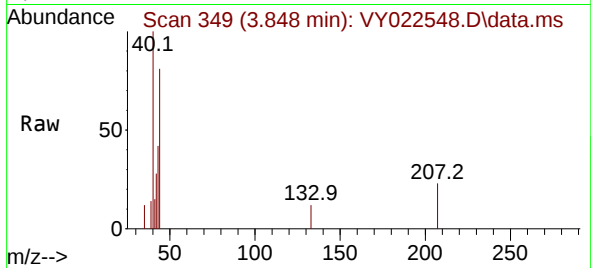




#16
Acetone
Concen: 2.697 ug/l
RT: 3.848 min Scan# 349
Delta R.T. -0.031 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

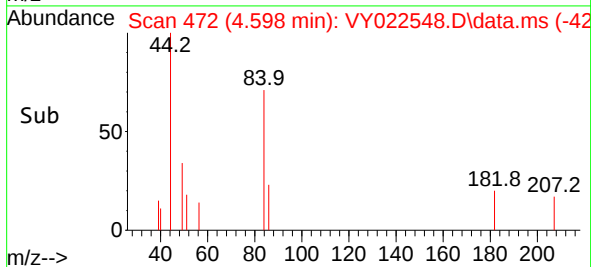
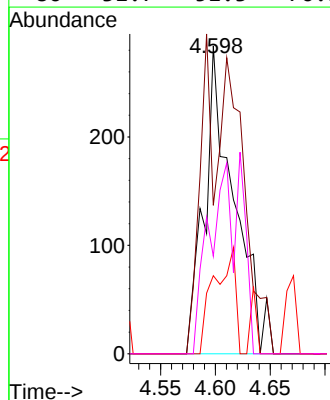
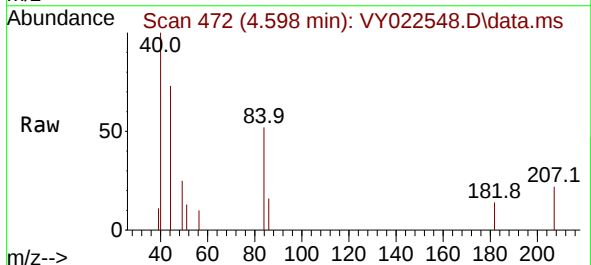
Instrument :
MSVOA_Y
ClientSampleId :
COMP-13

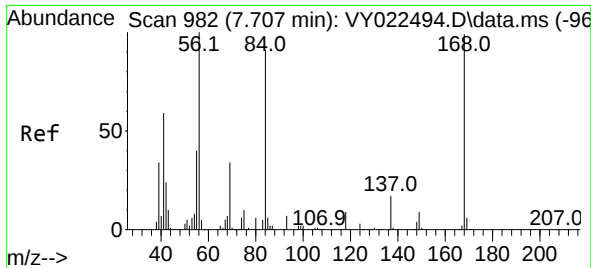
Tgt Ion: 43 Resp: 240
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#



#20
Methylene Chloride
Concen: 1.052 ug/l
RT: 4.598 min Scan# 472
Delta R.T. -0.024 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

Tgt Ion: 84 Resp: 532
Ion Ratio Lower Upper
84 100
49 48.2 101.9 152.9#
51 25.4 29.8 44.8#
86 31.7 51.3 76.9#

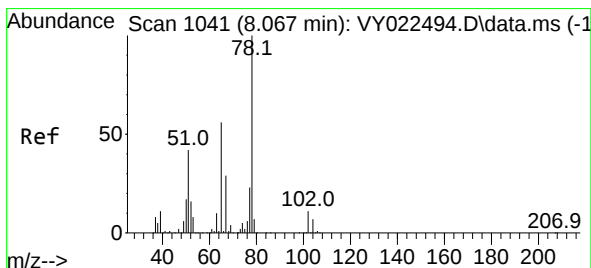
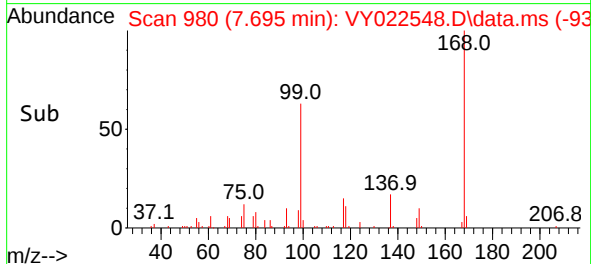
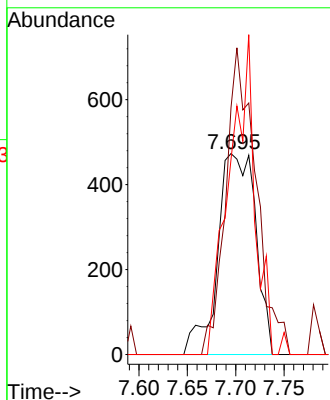
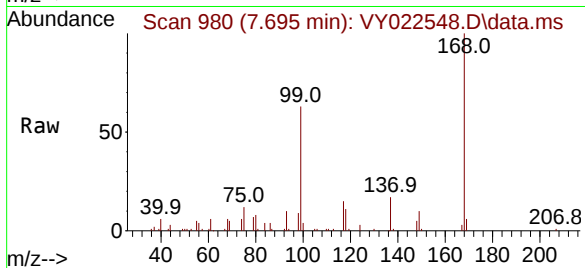




#31
Cyclohexane
Concen: 1.536 ug/l
RT: 7.695 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

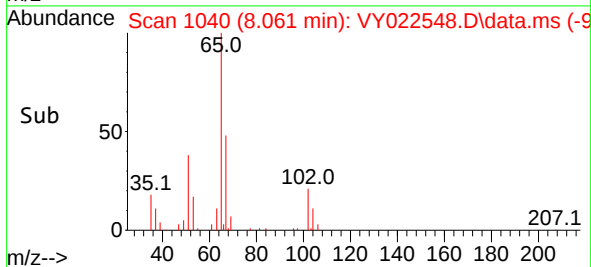
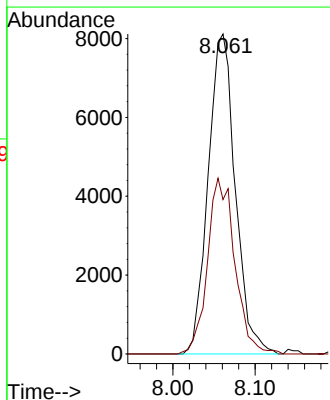
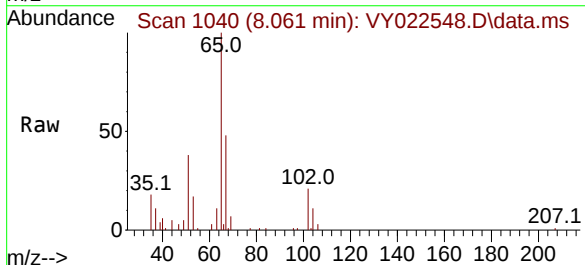
Instrument :
MSVOA_Y
ClientSampleId :
COMP-13

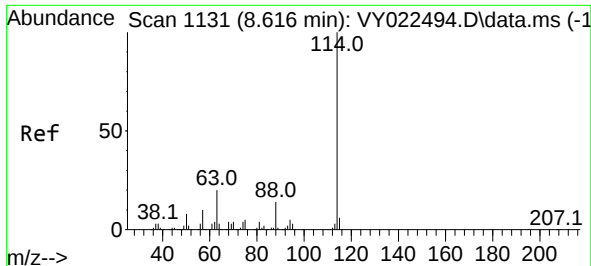
Tgt Ion: 56 Resp: 1293
Ion Ratio Lower Upper
56 100
69 122.8 27.0 40.6#
84 97.0 72.6 109.0



#33
1,2-Dichloroethane-d4
Concen: 42.522 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

Tgt Ion: 65 Resp: 18632
Ion Ratio Lower Upper
65 100
67 55.4 0.0 103.4

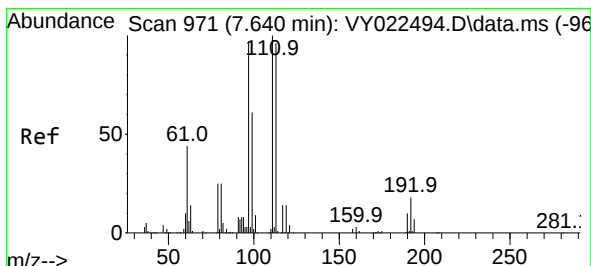
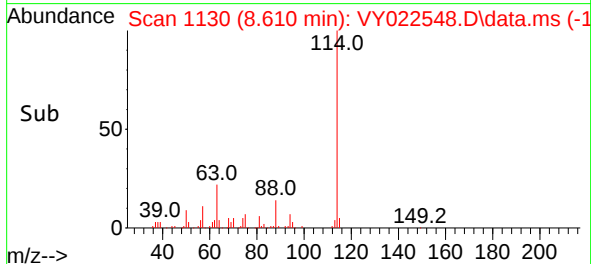
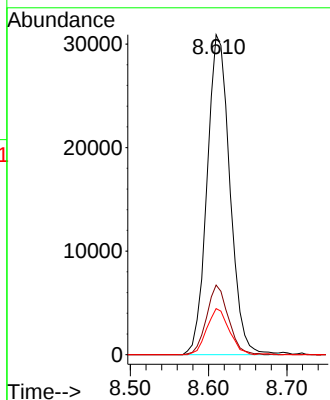
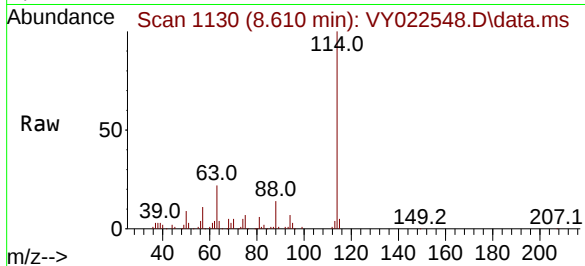




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

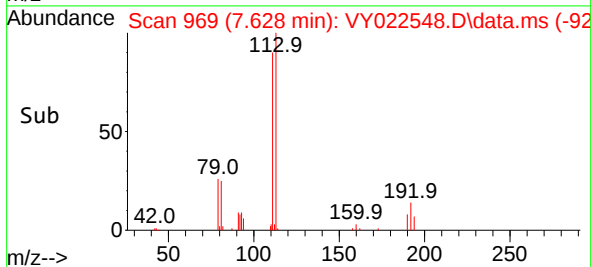
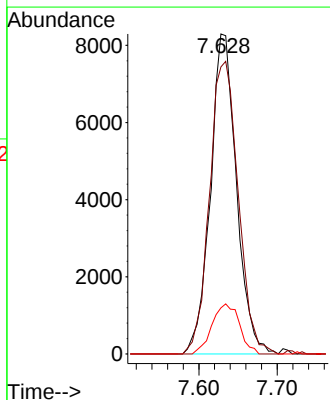
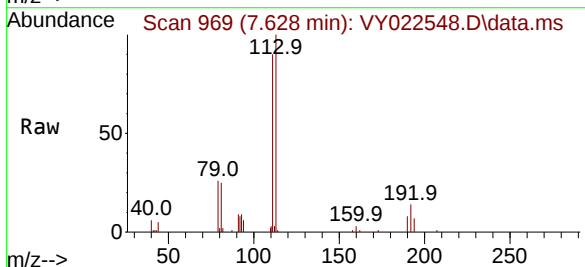
Instrument :
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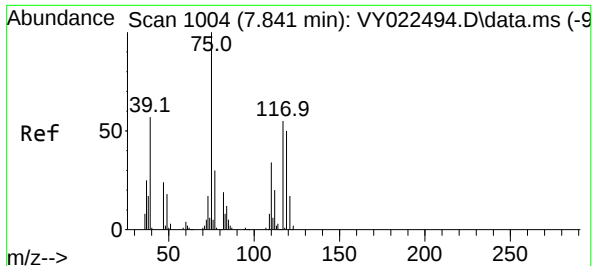
Tgt Ion:114 Resp: 62447
Ion Ratio Lower Upper
114 100
63 21.7 0.0 40.8
88 14.4 0.0 27.8



#35
Dibromofluoromethane
Concen: 51.388 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.012 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

Tgt Ion:113 Resp: 19154
Ion Ratio Lower Upper
113 100
111 100.8 81.1 121.7
192 16.4 14.2 21.2





#36

1,1-Dichloropropene

Concen: 5.832 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

COMP-13

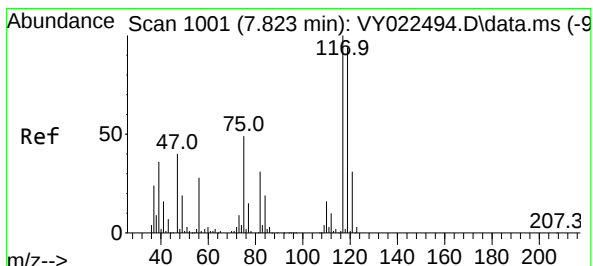
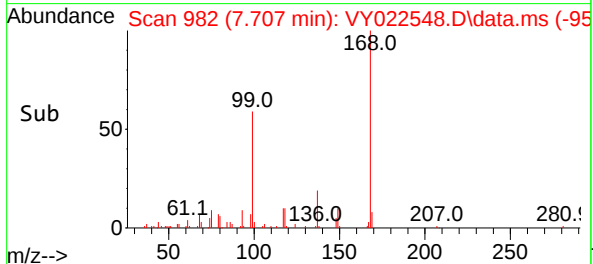
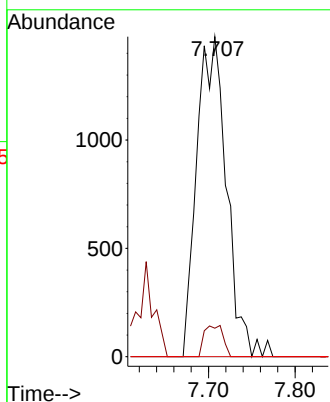
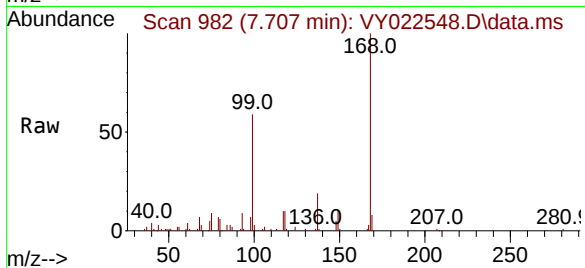
Tgt Ion: 75 Resp: 3528

Ion Ratio Lower Upper

75 100

110 6.2 16.9 50.7#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.388 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.128 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

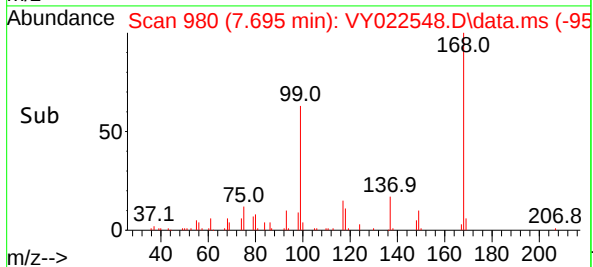
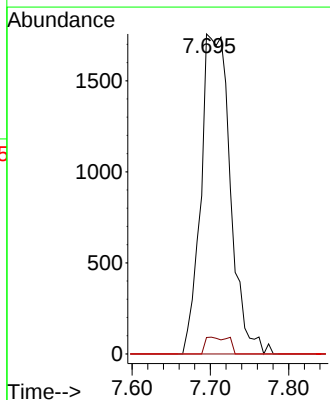
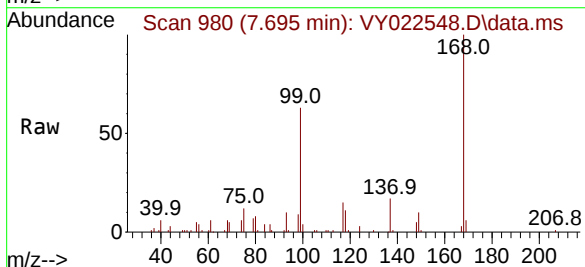
Tgt Ion: 117 Resp: 4585

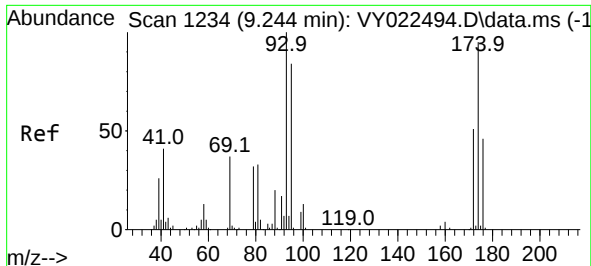
Ion Ratio Lower Upper

117 100

119 5.1 75.0 112.6#

121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 7.106 ug/l

RT: 9.103 min Scan# 1

Delta R.T. -0.140 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

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COMP-13

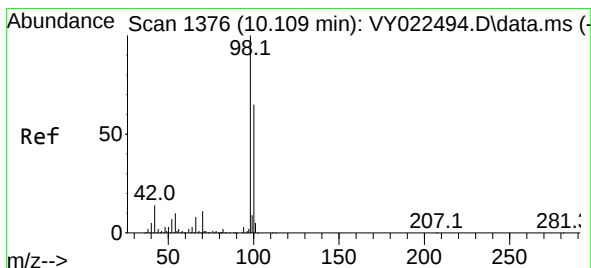
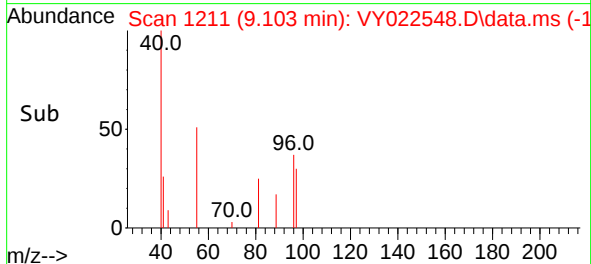
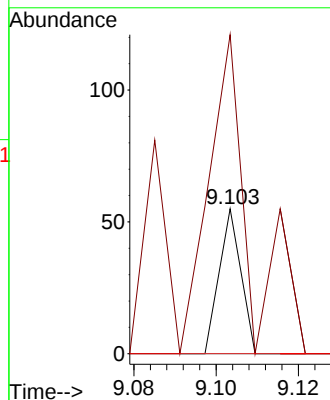
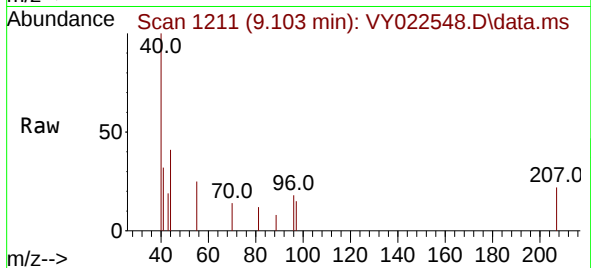
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 575.0 25.4 38.2#

58 0.0 54.9 82.3#



#50

Toluene-d8

Concen: 47.427 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022548.D

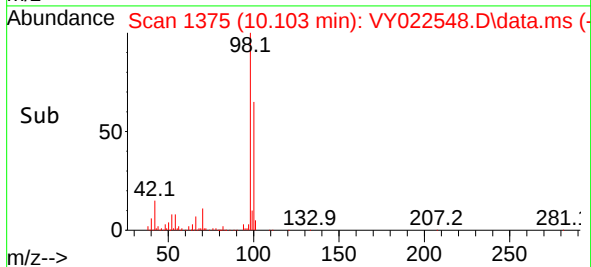
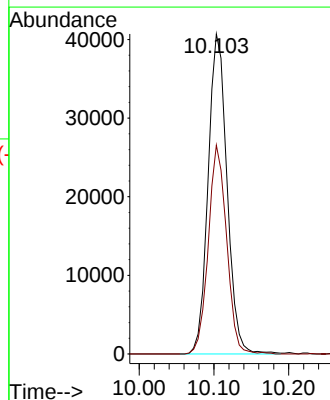
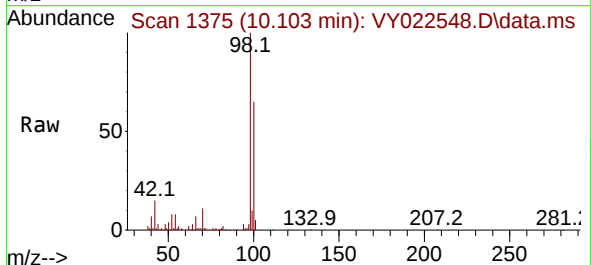
Acq: 04 Jun 2025 14:13

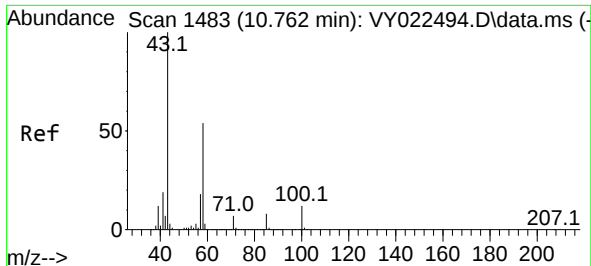
Tgt Ion: 98 Resp: 71429

Ion Ratio Lower Upper

98 100

100 63.3 51.4 77.0





#59

2-Hexanone

Concen: 1.168 ug/l

RT: 10.768 min Scan# 1484

Delta R.T. 0.006 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

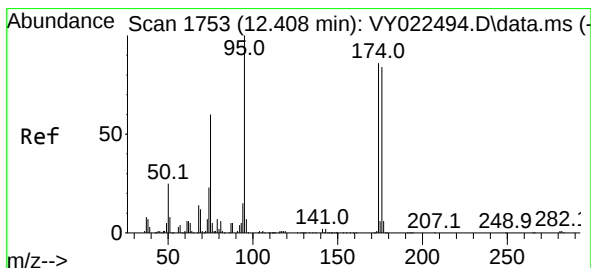
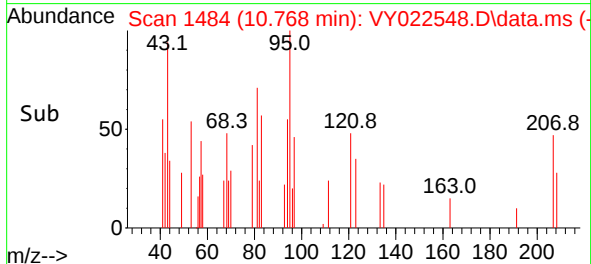
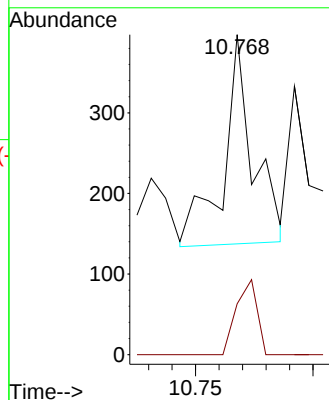
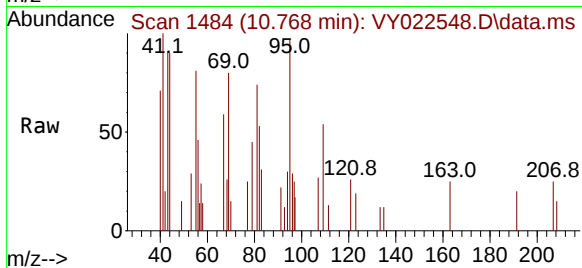
COMP-13

Tgt Ion: 43 Resp: 227

Ion Ratio Lower Upper

43 100

58 25.1 27.3 81.8#



#62

4-Bromofluorobenzene

Concen: 35.172 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

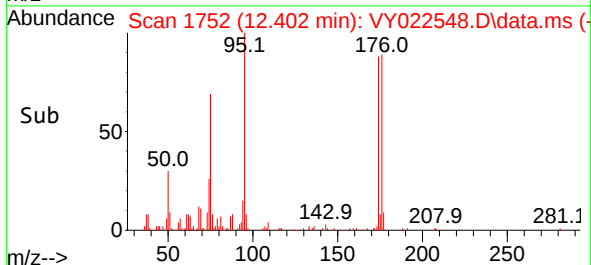
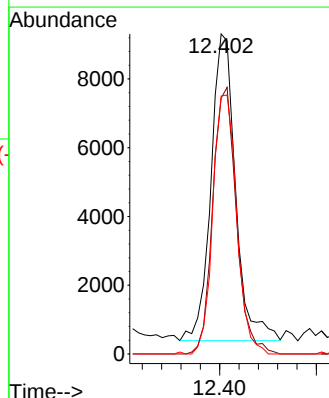
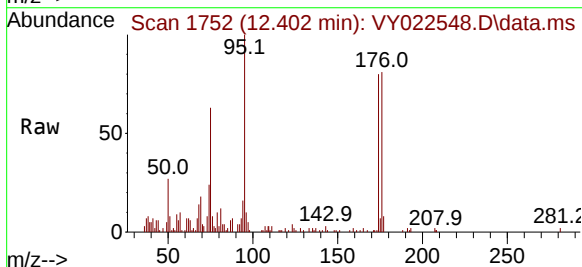
Tgt Ion: 95 Resp: 15783

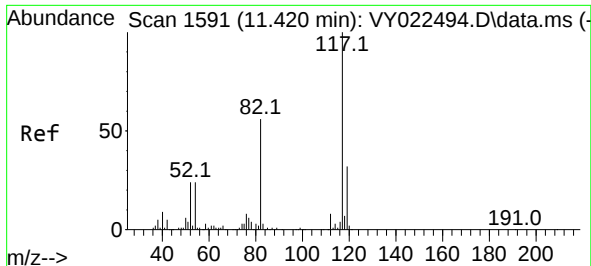
Ion Ratio Lower Upper

95 100

174 83.2 0.0 170.0

176 81.6 0.0 166.2

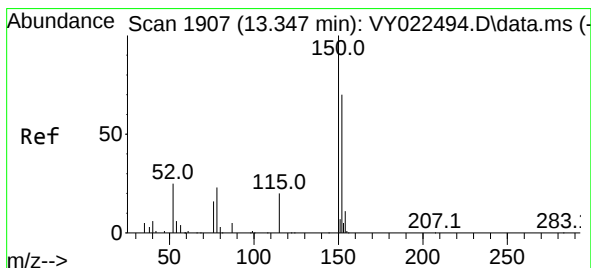
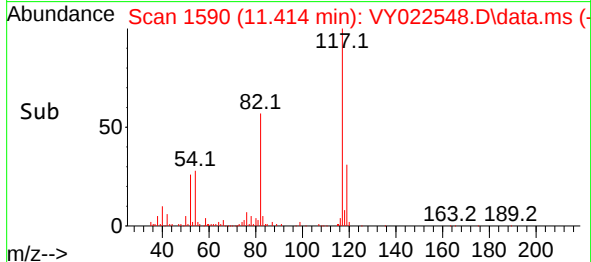
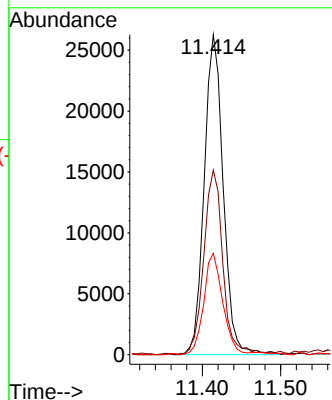
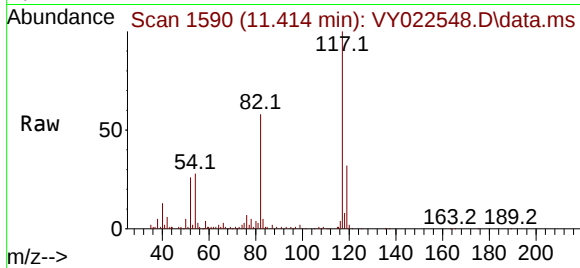




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

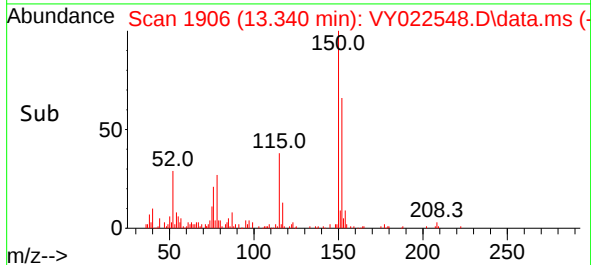
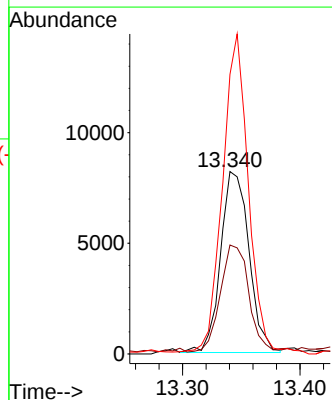
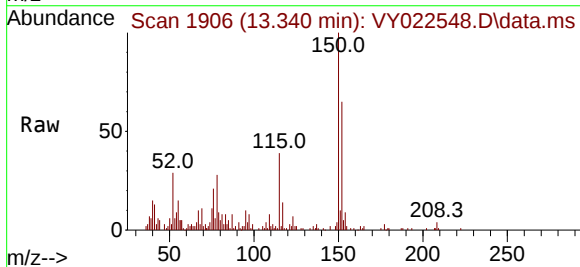
Instrument :
MSVOA_Y
ClientSampleId :
COMP-13

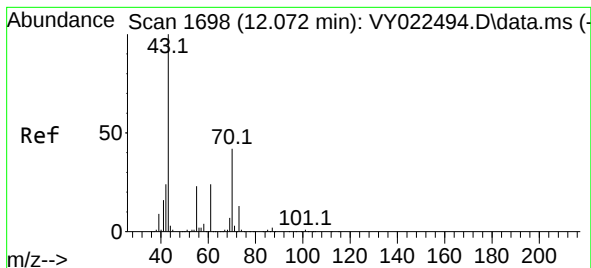
Tgt Ion:117 Resp: 44233
Ion Ratio Lower Upper
117 100
82 57.4 44.6 66.8
119 31.7 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

Tgt Ion:152 Resp: 13734
Ion Ratio Lower Upper
152 100
115 59.3 28.9 86.7
150 162.5 0.0 349.6





#74

N-amy1 acetate

Concen: 2.123 ug/l

RT: 12.048 min Scan# 1

Delta R.T. -0.024 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

COMP-13

Tgt Ion: 43 Resp: 604

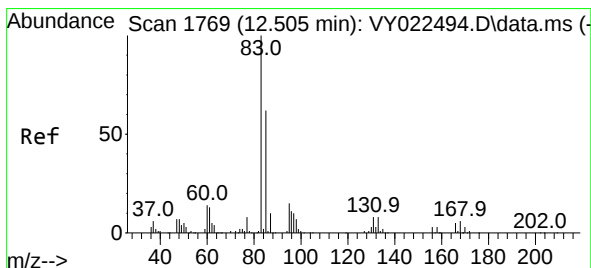
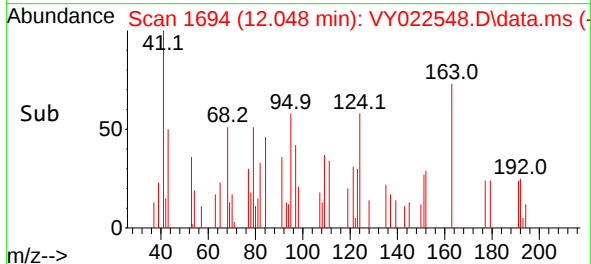
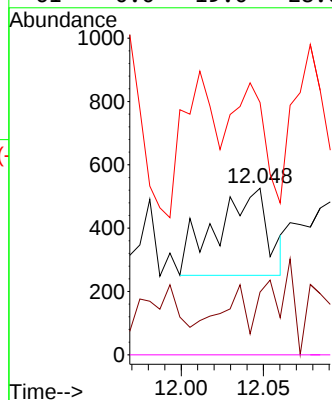
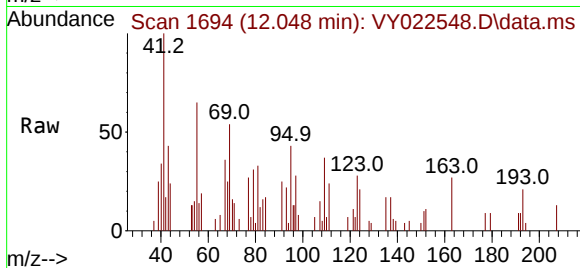
Ion Ratio Lower Upper

43 100

70 22.8 34.2 51.2#

55 0.0 18.2 27.4#

61 0.0 19.0 28.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.215 ug/l

RT: 12.505 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

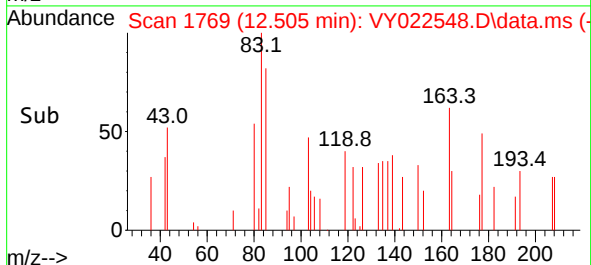
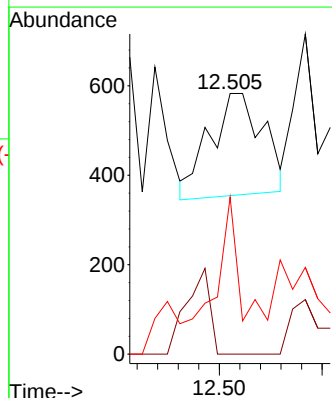
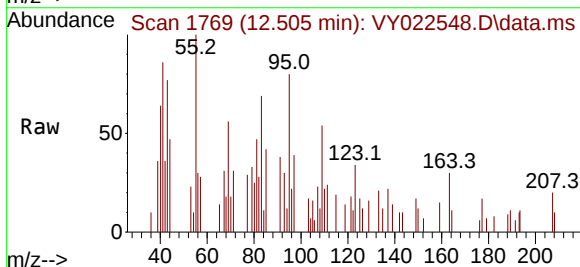
Tgt Ion: 83 Resp: 410

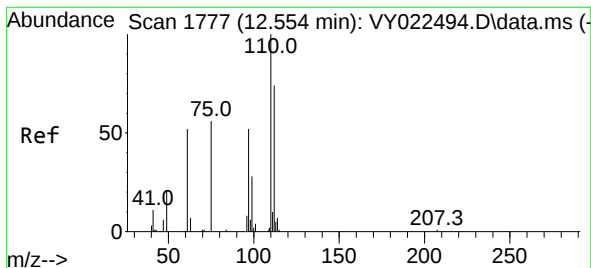
Ion Ratio Lower Upper

83 100

131 37.1 4.9 14.7#

85 84.1 32.6 97.8





#76

1,2,3-Trichloropropane

Concen: 58.980 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

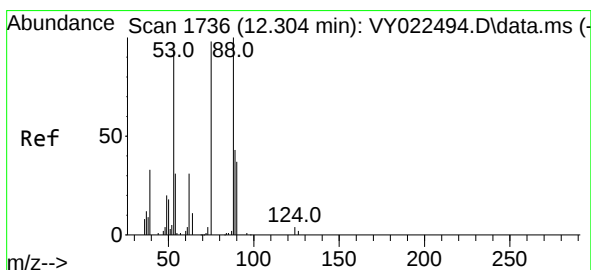
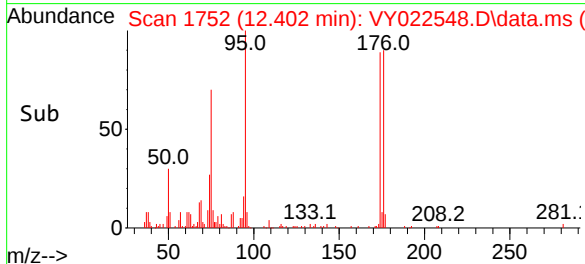
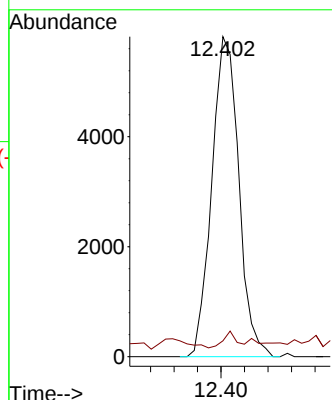
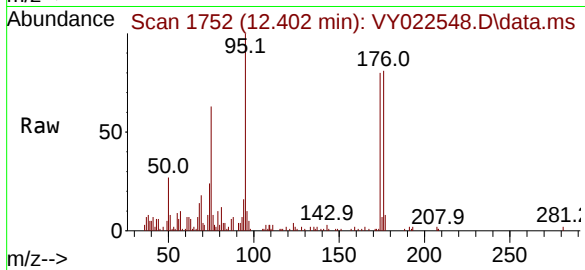
COMP-13

Tgt Ion: 75 Resp: 9267

Ion Ratio Lower Upper

75 100

77 2.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 142.432 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.098 min

Lab File: VY022548.D

Acq: 04 Jun 2025 14:13

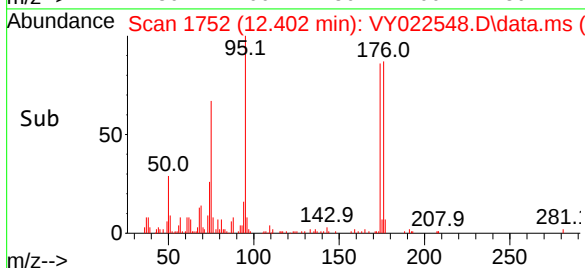
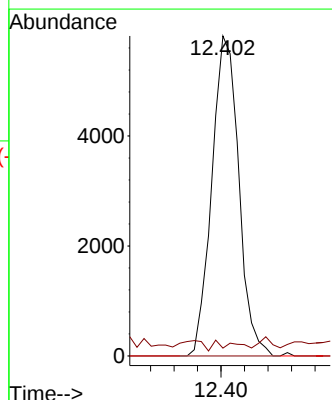
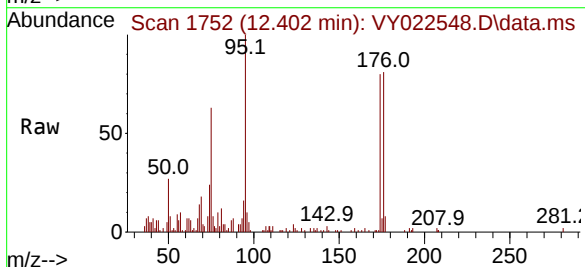
Tgt Ion: 75 Resp: 9267

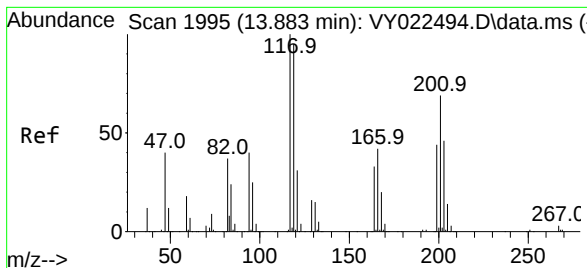
Ion Ratio Lower Upper

75 100

53 1.0 78.5 117.7#

89 0.0 35.7 53.5#

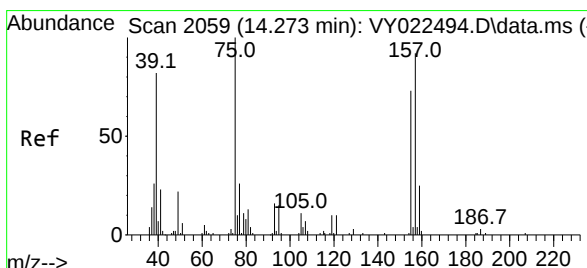
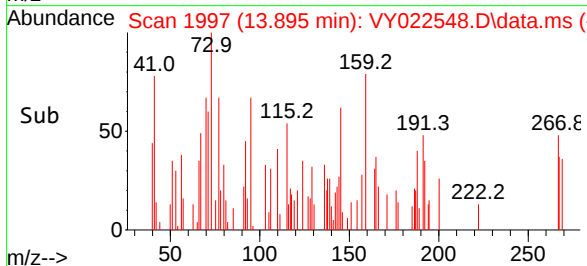
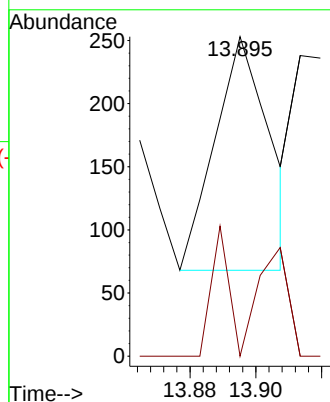
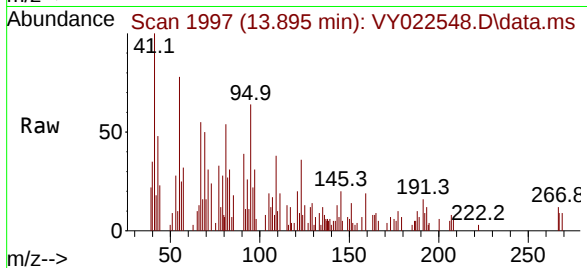




#90
Hexachloroethane
Concen: 1.075 ug/l
RT: 13.895 min Scan# 1997
Delta R.T. 0.012 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

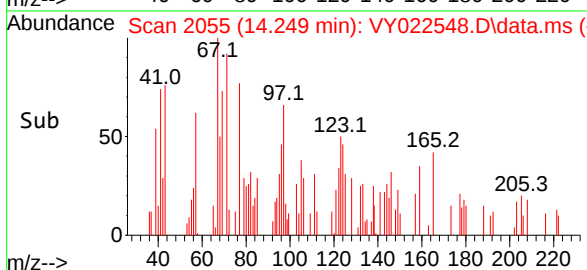
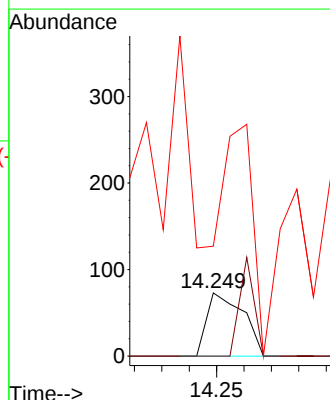
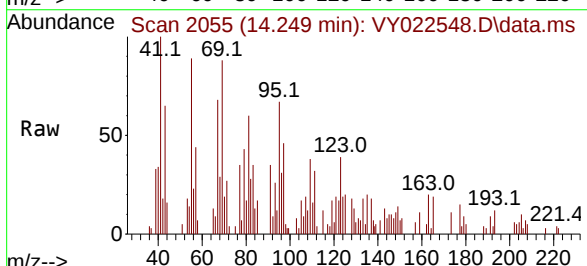
Instrument :
MSVOA_Y
ClientSampleId :
COMP-13

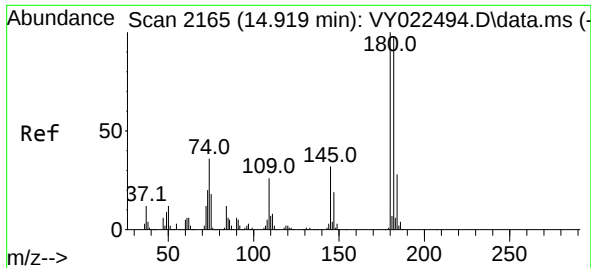
Tgt Ion:117 Resp: 210
Ion Ratio Lower Upper
117 100
201 18.1 34.0 102.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.487 ug/l
RT: 14.249 min Scan# 2055
Delta R.T. -0.024 min
Lab File: VY022548.D
Acq: 04 Jun 2025 14:13

Tgt Ion: 75 Resp: 67
Ion Ratio Lower Upper
75 100
155 62.7 39.9 119.6
157 285.1 54.0 162.0#





#93

1,2,4-Trichlorobenzene

Concen: 1.008 ug/l

RT: 14.919 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY022548.D

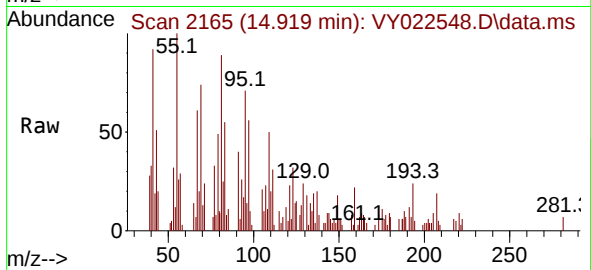
Acq: 04 Jun 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

COMP-13



Tgt Ion:	180	Resp:	225
Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.4	145.3#
145	162.2	15.5	46.5#

