

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052925\
 Data File : VY022464.D
 Acq On : 29 May 2025 13:59
 Operator : SY/MD
 Sample : Q2150-05
 Misc : 7.15g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-47

Quant Time: May 30 05:34:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 28 10:34:06 2025
 Response via : Initial Calibration

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

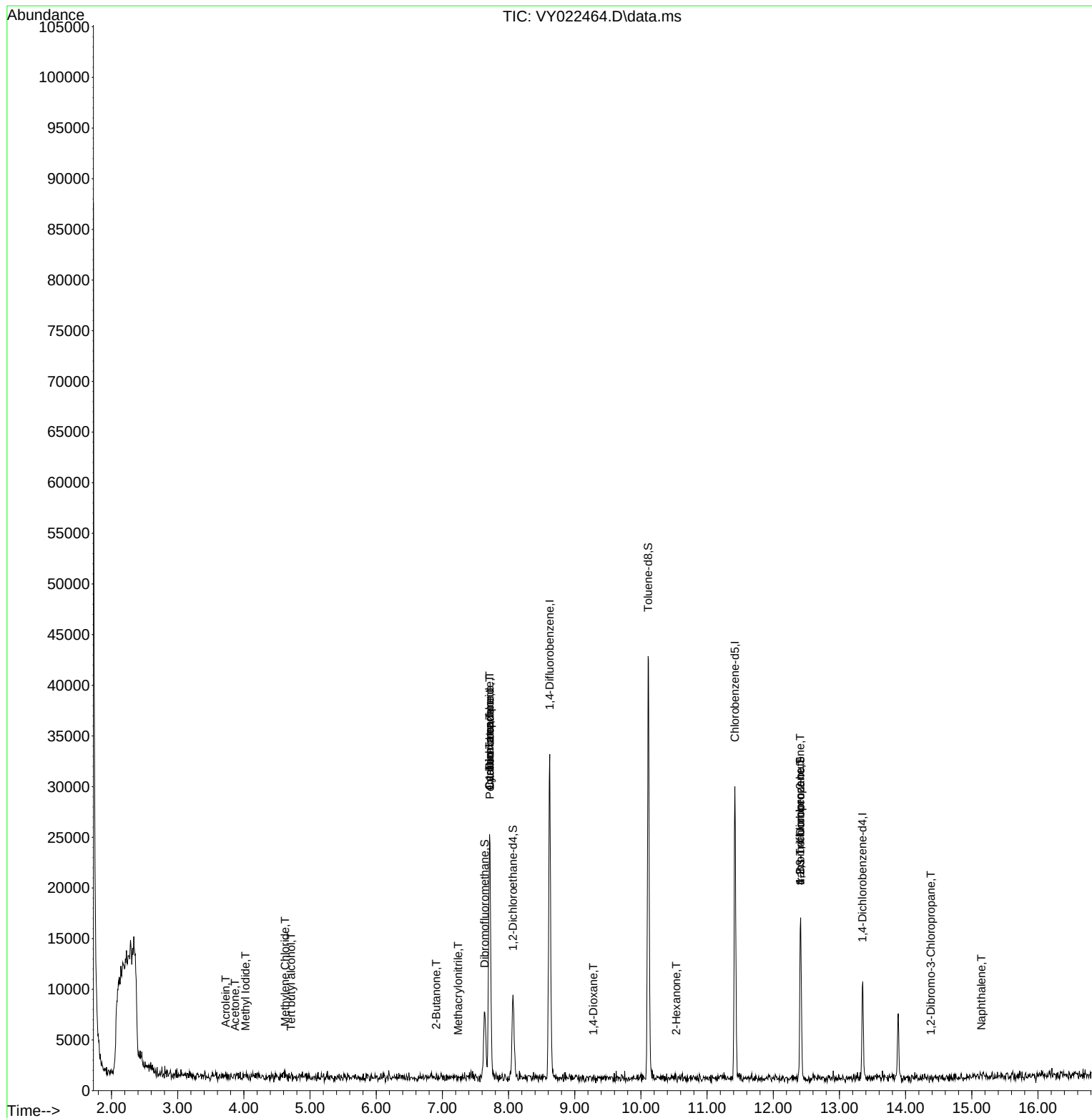
Internal Standards						
1) Pentafluorobenzene	7.719	168	18571	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	25910	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	13686	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	2224	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	6243	31.916	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	63.840%
35) Dibromofluoromethane	7.640	113	4936	32.530	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	65.060%
50) Toluene-d8	10.109	98	26868	43.436	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	86.880%
62) 4-Bromofluorobenzene	12.407	95	3842	20.534	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	41.060%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.025	142	386	1.746	ug/l #	45
11) Tert butyl alcohol	4.714	59	44	3.191	ug/l #	70
13) Acrolein	3.726	56	67	3.243	ug/l #	14
16) Acetone	3.866	43	152	4.729	ug/l #	49
20) Methylene Chloride	4.622	84	233	1.027	ug/l #	70
25) 2-Butanone	6.908	43	80	1.494	ug/l #	46
31) Cyclohexane	7.713	56	642	1.706	ug/l #	72
36) 1,1-Dichloropropene	7.713	75	1626	6.753	ug/l #	43
38) Carbon Tetrachloride	7.713	117	1885	7.515	ug/l #	12
41) Methacrylonitrile	7.238	41	144	2.319	ug/l #	50
49) 1,4-Dioxane	9.280	88	25	24.069	ug/l #	1
59) 2-Hexanone	10.536	43	74	1.023	ug/l	66
76) 1,2,3-Trichloropropane	12.407	75	2549	114.423	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	2549	258.763	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.383	75	22	5.163	ug/l #	1
95) Naphthalene	15.145	128	81	1.248	ug/l #	70

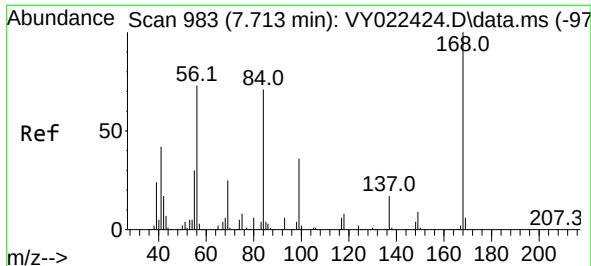
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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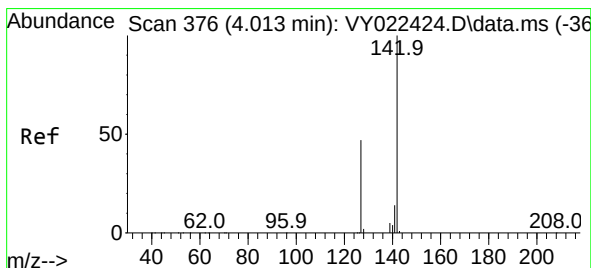
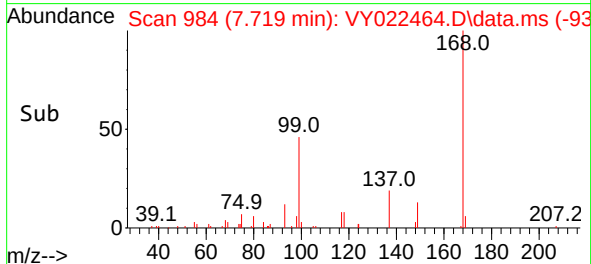
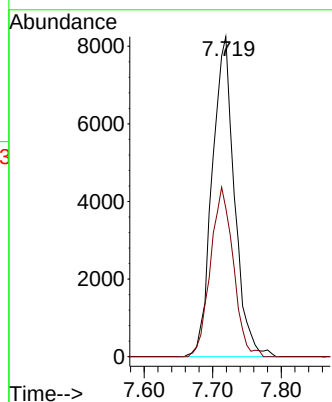
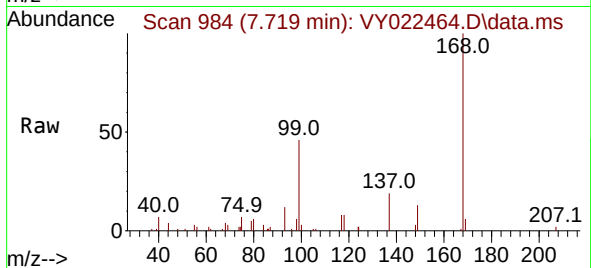




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

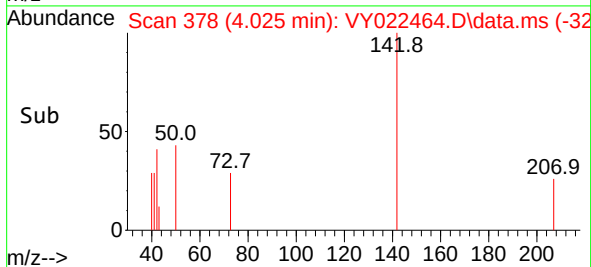
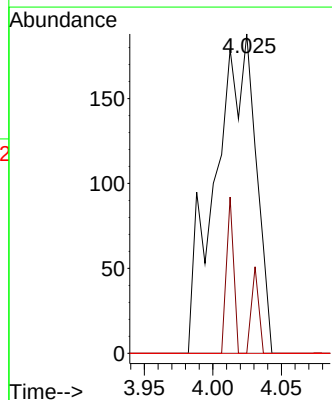
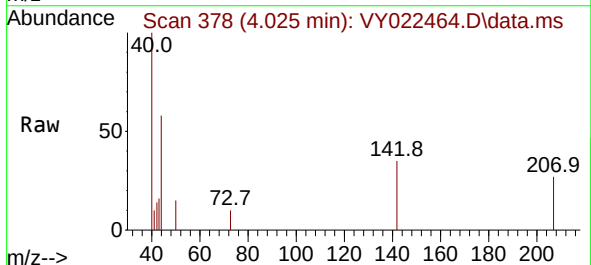
Instrument :
MSVOA_Y
ClientSampleId :
TP-47

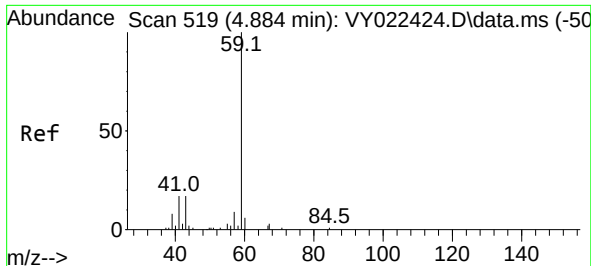
Tgt Ion:168 Resp: 18571
Ion Ratio Lower Upper
168 100
99 46.5 44.7 67.1



#10
Methyl Iodide
Concen: 1.746 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.012 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion:142 Resp: 386
Ion Ratio Lower Upper
142 100
127 4.9 36.2 54.4#
141 0.0 11.6 17.4#

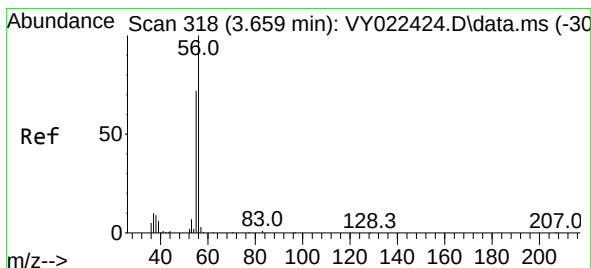
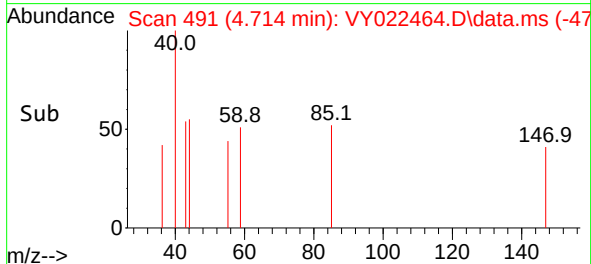
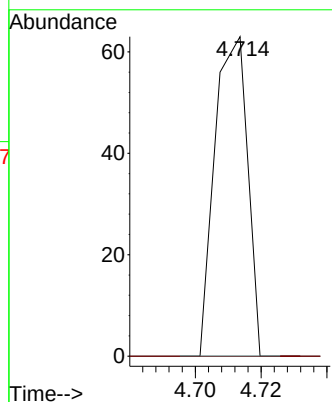
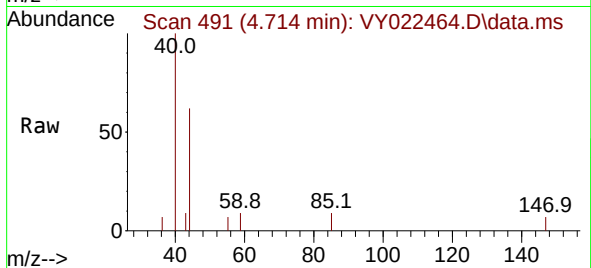




#11
Tert butyl alcohol
Concen: 3.191 ug/l
RT: 4.714 min Scan# 491
Delta R.T. -0.171 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

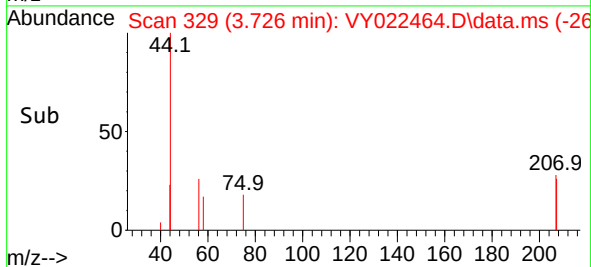
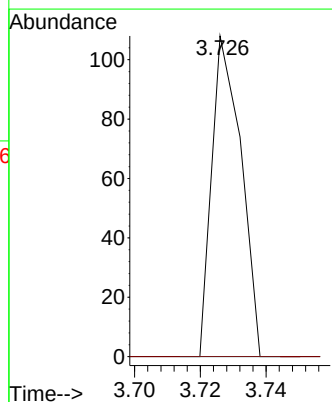
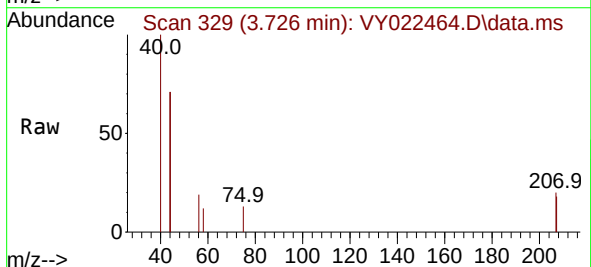
Instrument :
MSVOA_Y
ClientSampleId :
TP-47

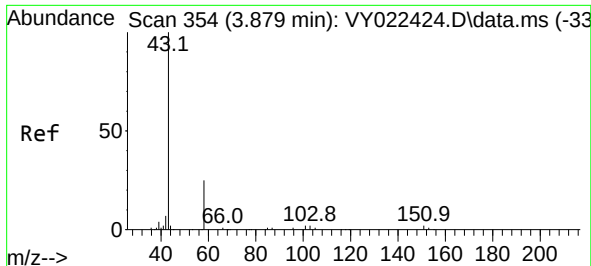
Tgt Ion: 59 Resp: 44
Ion Ratio Lower Upper
59 100
57 0.0 9.1 13.7#



#13
Acrolein
Concen: 3.243 ug/l
RT: 3.726 min Scan# 329
Delta R.T. 0.067 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
55 0.0 56.5 84.7#





#16

Acetone

Concen: 4.729 ug/l

RT: 3.866 min Scan# 31

Delta R.T. -0.012 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Instrument :

MSVOA_Y

ClientSampleId :

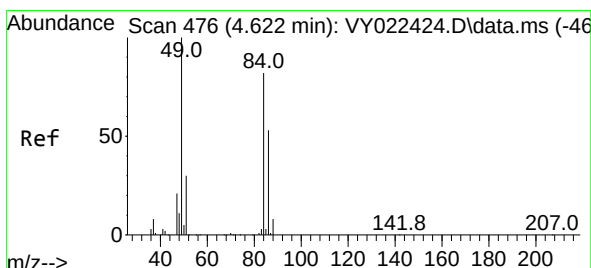
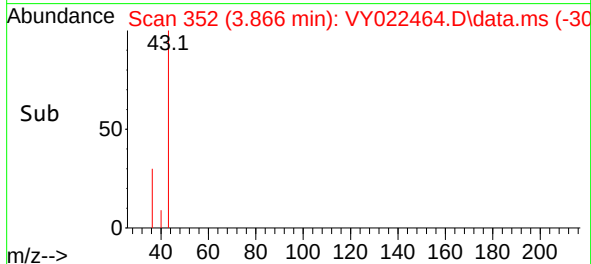
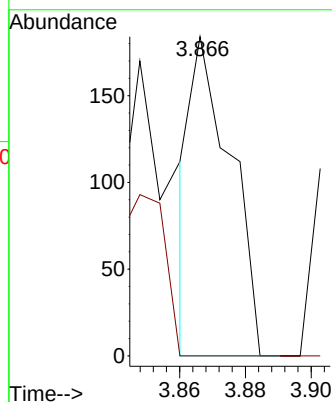
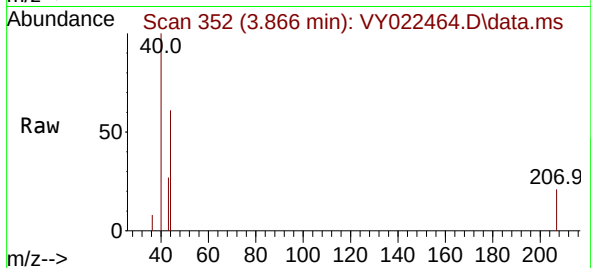
TP-47

Tgt Ion: 43 Resp: 152

Ion Ratio Lower Upper

43 100

58 0.0 20.6 30.8#



#20

Methylene Chloride

Concen: 1.027 ug/l

RT: 4.622 min Scan# 476

Delta R.T. -0.000 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Tgt Ion: 84 Resp: 233

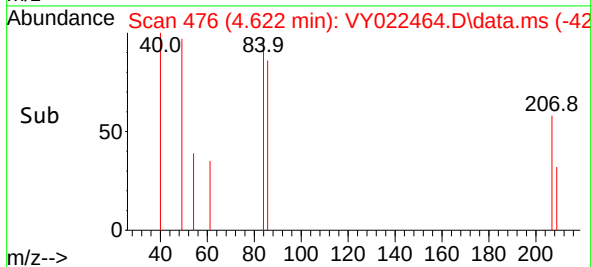
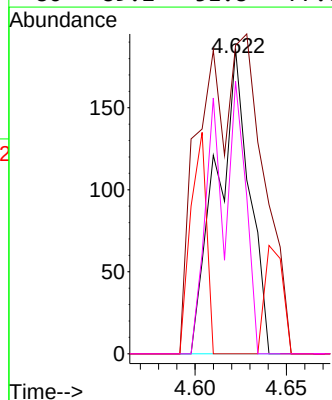
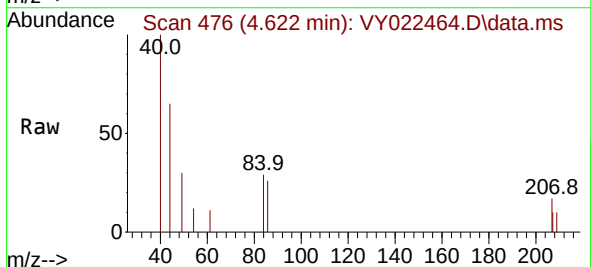
Ion Ratio Lower Upper

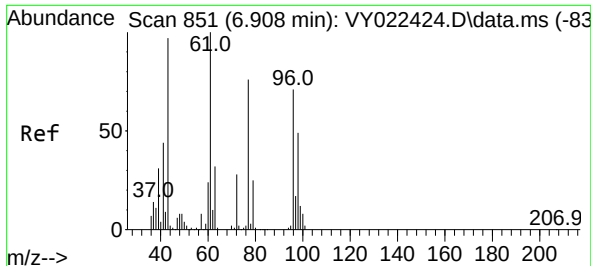
84 100

49 101.1 97.8 146.8

51 0.0 29.5 44.3#

86 89.2 51.8 77.6#





#25

2-Butanone

Concen: 1.494 ug/l

RT: 6.908 min Scan# 851

Delta R.T. -0.000 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Instrument :

MSVOA_Y

ClientSampleId :

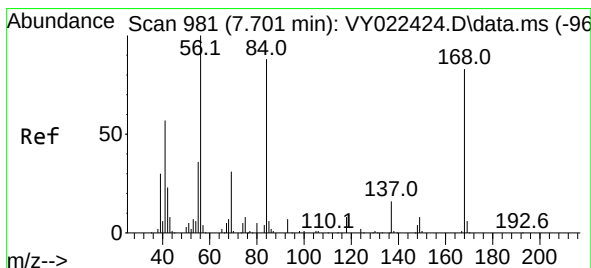
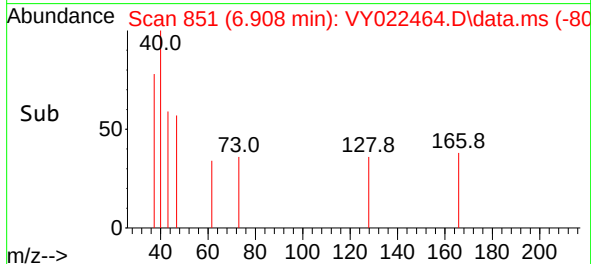
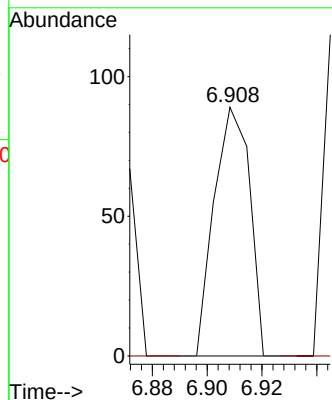
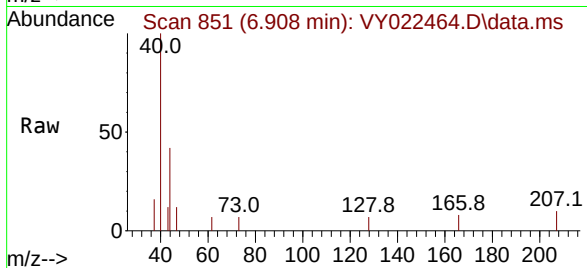
TP-47

Tgt Ion: 43 Resp: 80

Ion Ratio Lower Upper

43 100

72 0.0 22.8 34.2#



#31

Cyclohexane

Concen: 1.706 ug/l

RT: 7.713 min Scan# 983

Delta R.T. 0.012 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

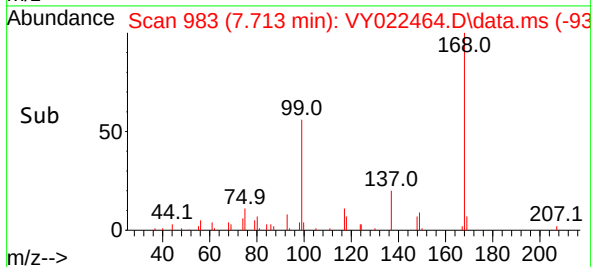
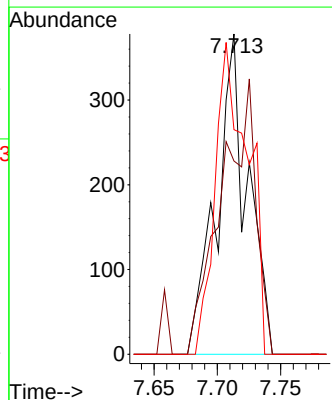
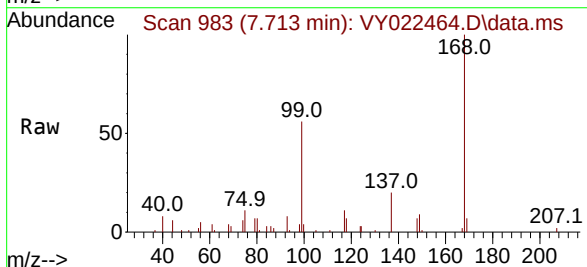
Tgt Ion: 56 Resp: 642

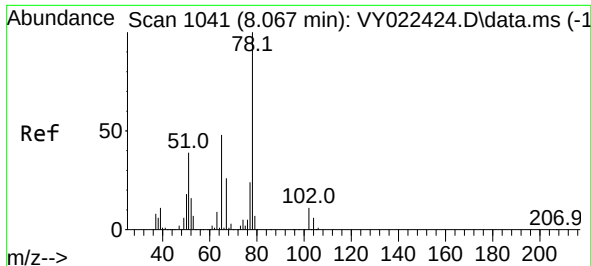
Ion Ratio Lower Upper

56 100

69 60.3 24.6 36.8#

84 70.1 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 31.916 ug/l

RT: 8.067 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Instrument :

MSVOA_Y

ClientSampleId :

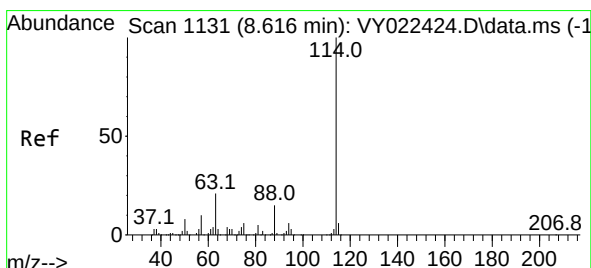
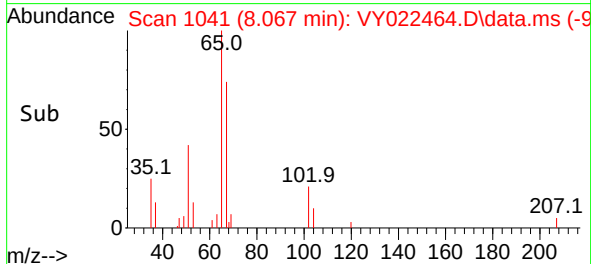
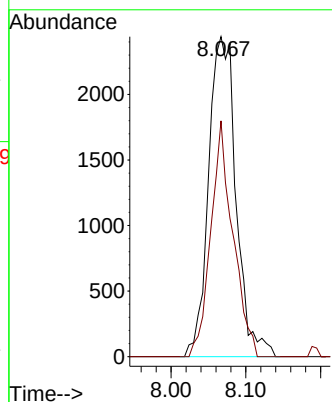
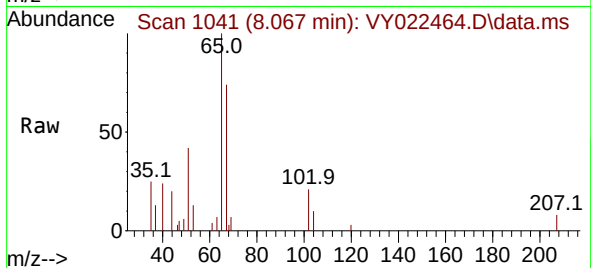
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Tgt Ion: 65 Resp: 6243

Ion Ratio Lower Upper

65 100

67 59.2 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.621 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

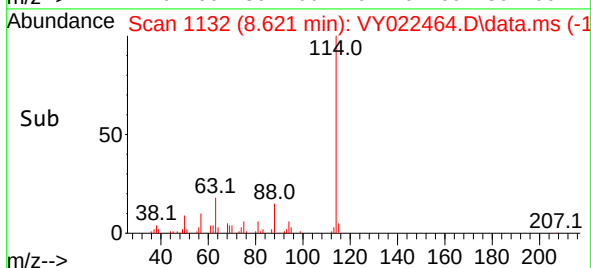
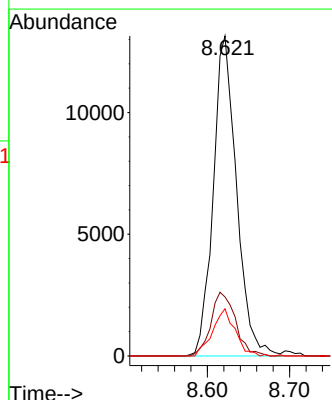
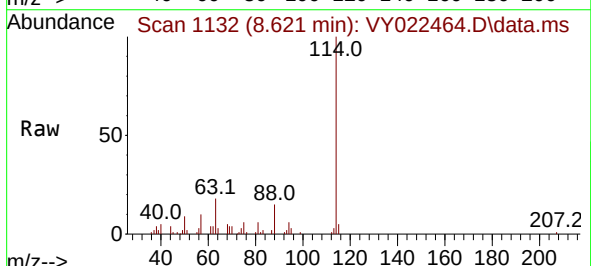
Tgt Ion: 114 Resp: 25910

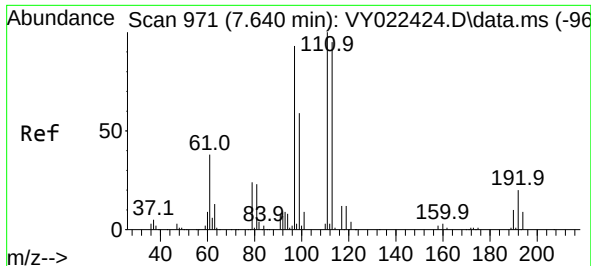
Ion Ratio Lower Upper

114 100

63 18.5 0.0 42.6

88 14.7 0.0 29.4

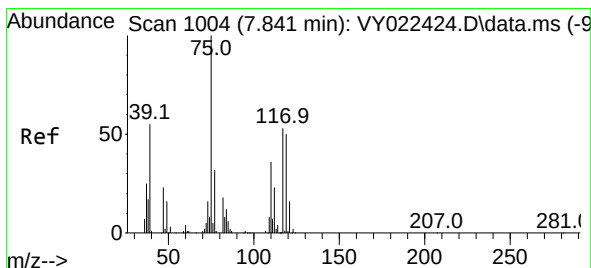
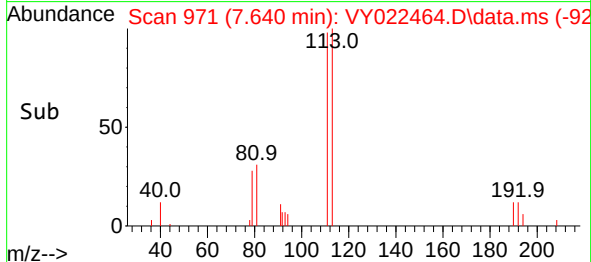
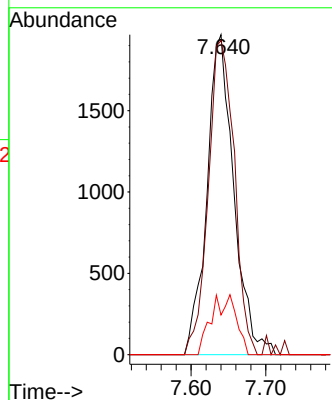
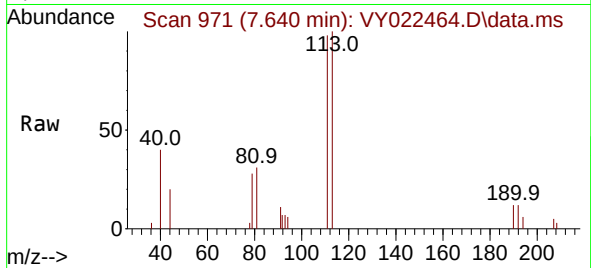




#35
Dibromofluoromethane
Concen: 32.530 ug/l
RT: 7.640 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

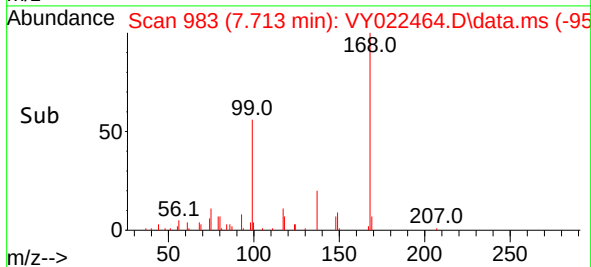
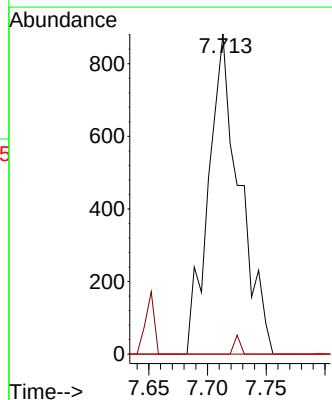
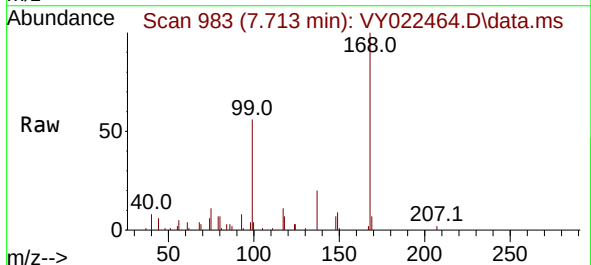
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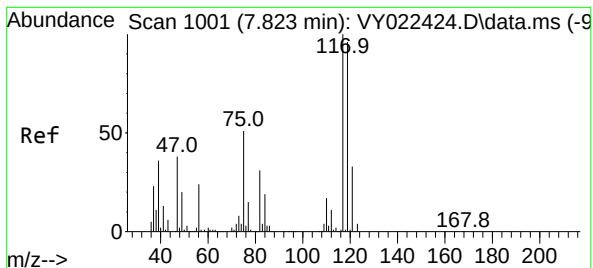
Tgt Ion:113 Resp: 4936
Ion Ratio Lower Upper
113 100
111 95.0 82.4 123.6
192 17.2 15.2 22.8



#36
1,1-Dichloropropene
Concen: 6.753 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.128 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion: 75 Resp: 1626
Ion Ratio Lower Upper
75 100
110 1.2 17.1 51.2#
77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 7.515 ug/l

RT: 7.713 min Scan# 905

Delta R.T. -0.110 min

Lab File: VY022464.D

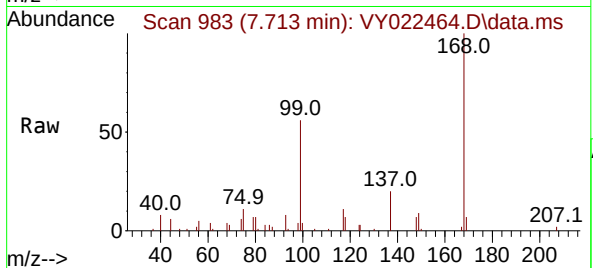
Acq: 29 May 2025 13:59

Instrument :

MSVOA_Y

ClientSampleId :

TP-47



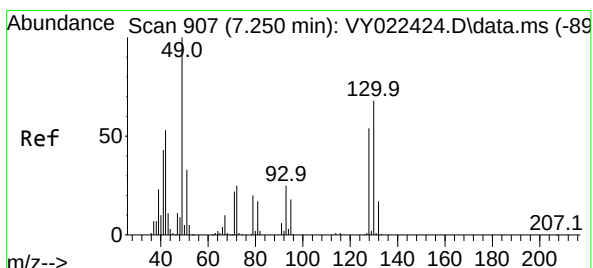
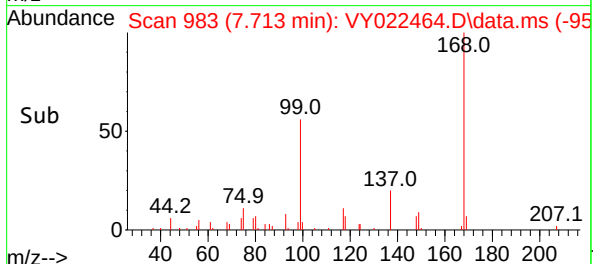
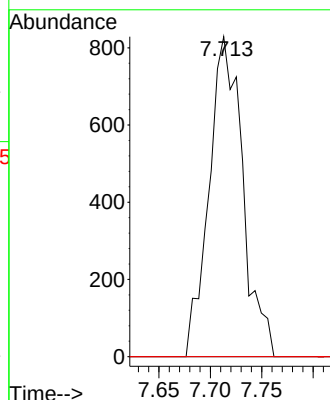
Tgt Ion:117 Resp: 1885

Ion Ratio Lower Upper

117 100

119 0.0 76.3 114.5#

121 0.0 26.1 39.1#



#41

Methacrylonitrile

Concen: 2.319 ug/l

RT: 7.238 min Scan# 905

Delta R.T. -0.012 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Tgt Ion: 41 Resp: 144

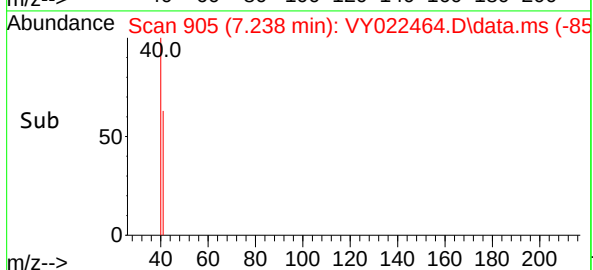
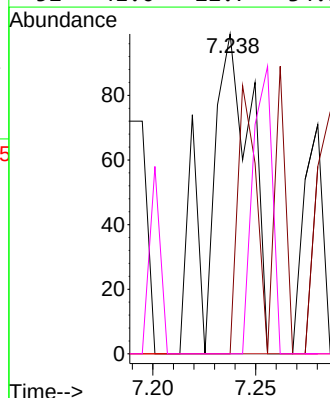
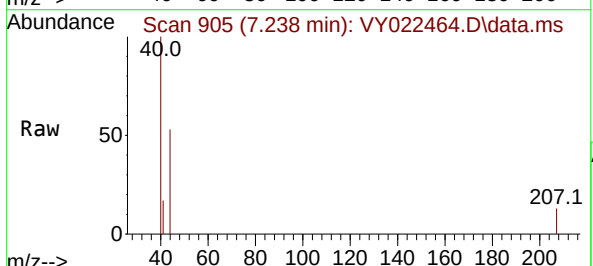
Ion Ratio Lower Upper

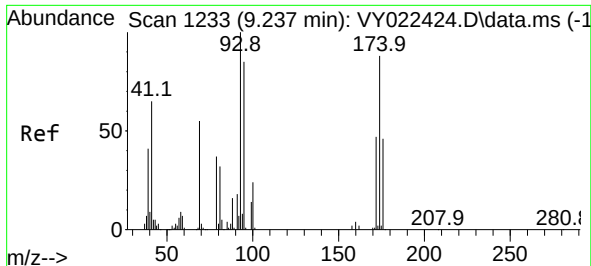
41 100

39 36.1 40.4 60.6#

67 0.0 53.0 79.4#

52 41.0 22.7 34.1#





#49

1,4-Dioxane

Concen: 24.069 ug/l

RT: 9.280 min Scan# 11

Delta R.T. 0.043 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Instrument :

MSVOA_Y

ClientSampleId :

TP-47

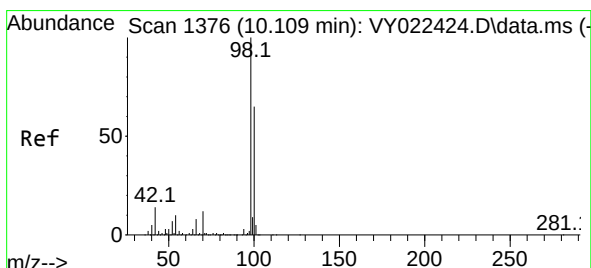
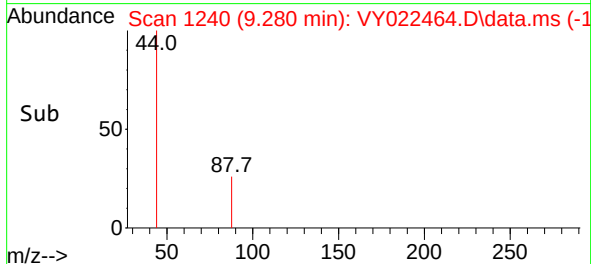
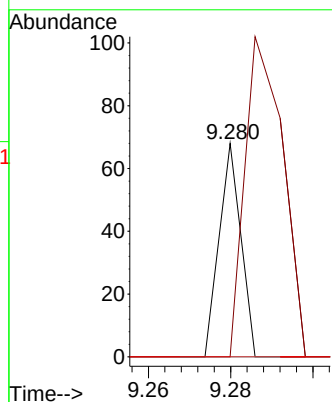
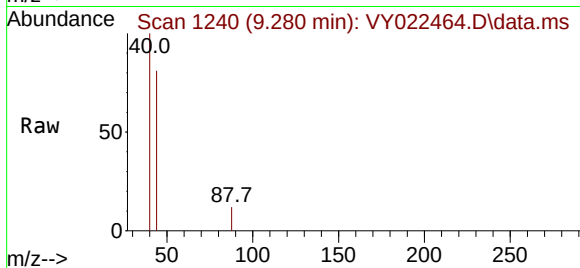
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 260.0 26.9 40.3#

58 0.0 55.8 83.6#



#50

Toluene-d8

Concen: 43.436 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY022464.D

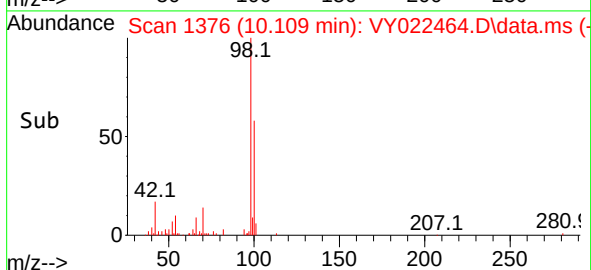
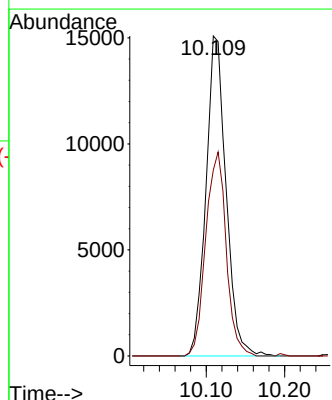
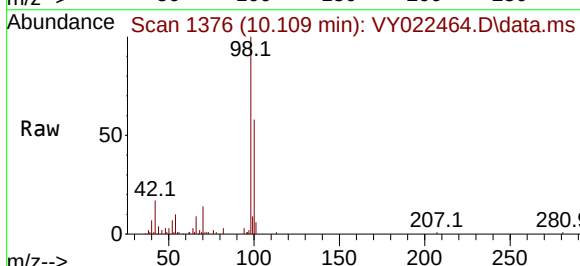
Acq: 29 May 2025 13:59

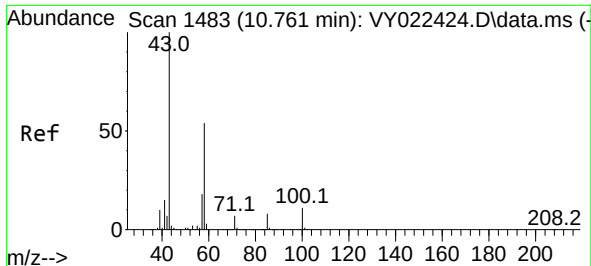
Tgt Ion: 98 Resp: 26868

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2

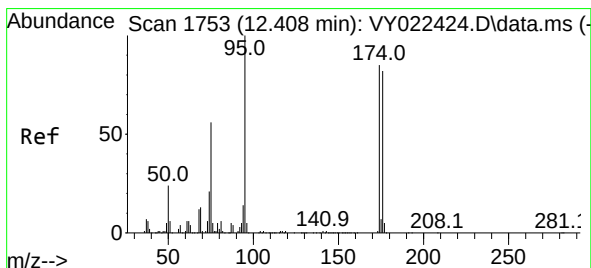
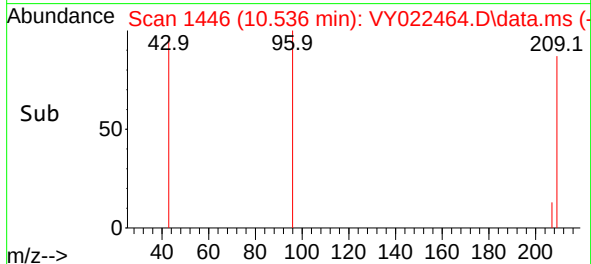
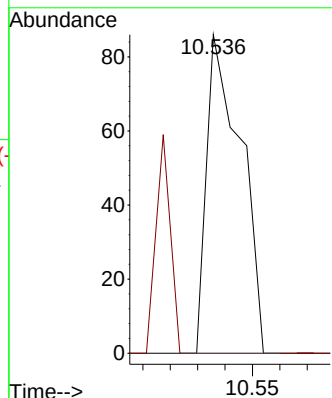
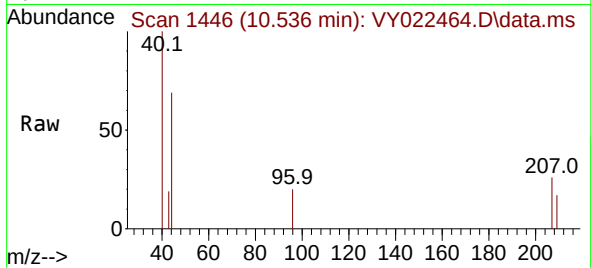




#59
2-Hexanone
Concen: 1.023 ug/l
RT: 10.536 min Scan# 1483
Delta R.T. -0.226 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

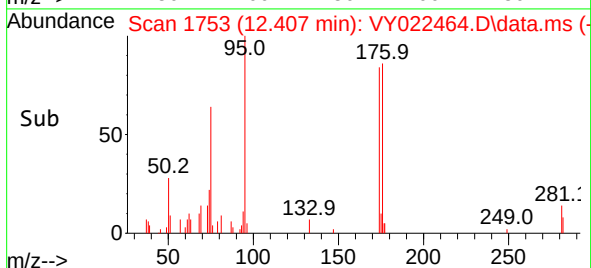
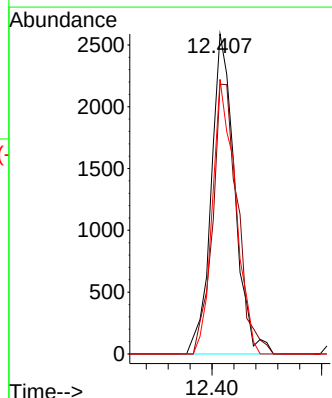
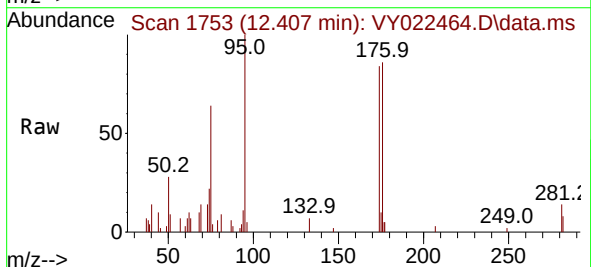
Instrument :
MSVOA_Y
ClientSampleId :
TP-47

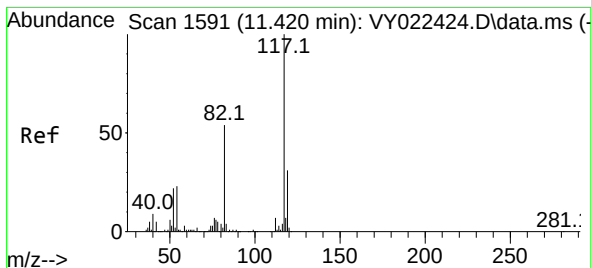
Tgt Ion: 43 Resp: 74
Ion Ratio Lower Upper
43 100
58 29.7 27.1 81.2



#62
4-Bromofluorobenzene
Concen: 20.534 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion: 95 Resp: 3842
Ion Ratio Lower Upper
95 100
174 89.8 0.0 171.6
176 84.4 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Instrument :

MSVOA_Y

ClientSampleId :

TP-47

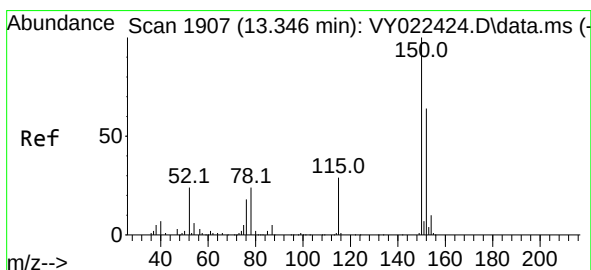
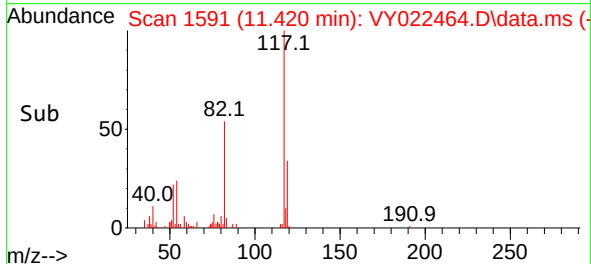
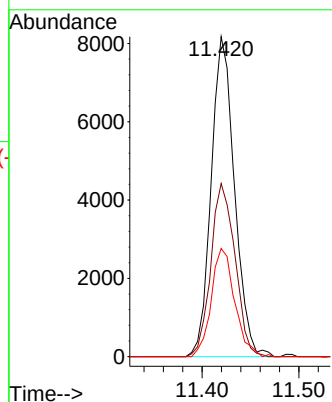
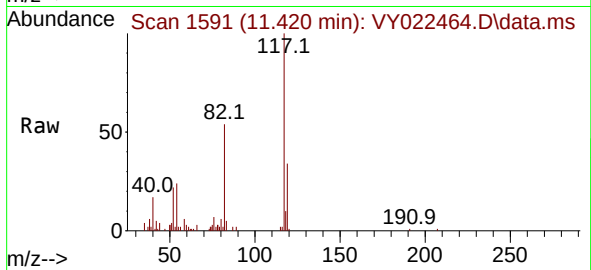
Tgt Ion:117 Resp: 13686

Ion Ratio Lower Upper

117 100

82 54.1 43.3 64.9

119 33.8 24.5 36.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

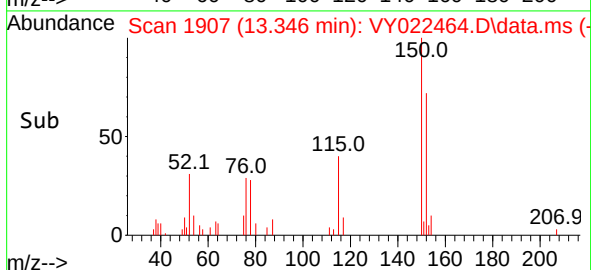
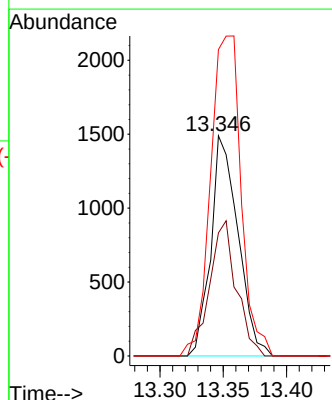
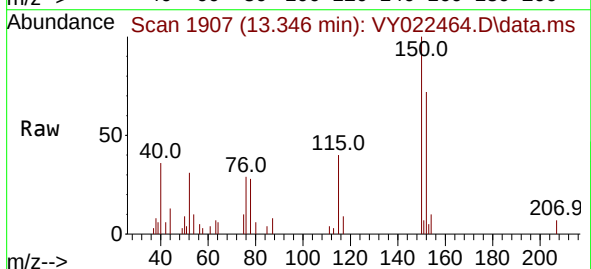
Tgt Ion:152 Resp: 2224

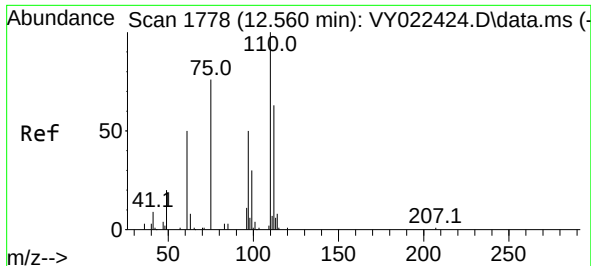
Ion Ratio Lower Upper

152 100

115 60.9 28.4 85.3

150 163.4 0.0 345.8

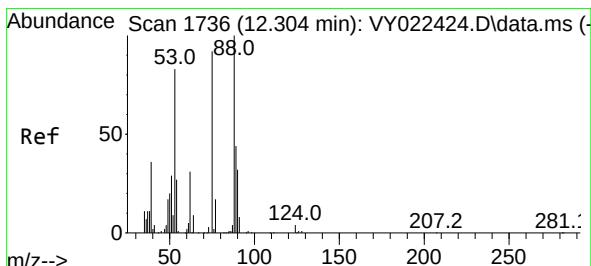
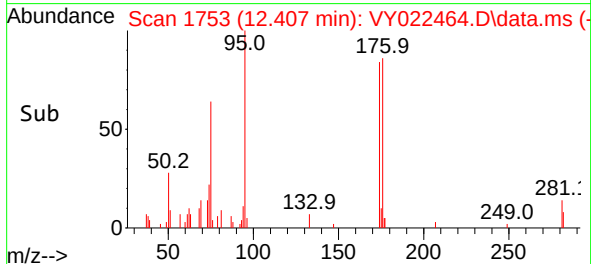
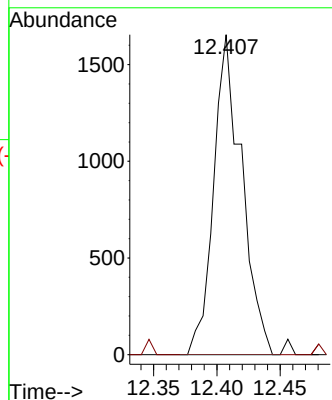
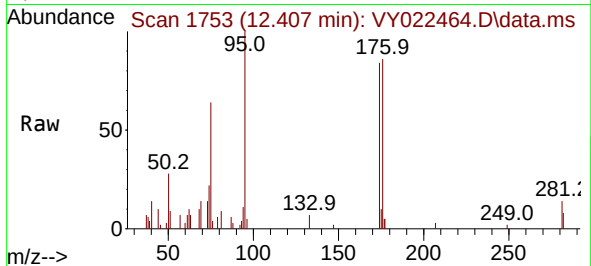




#76
1,2,3-Trichloropropane
Concen: 114.423 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.153 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

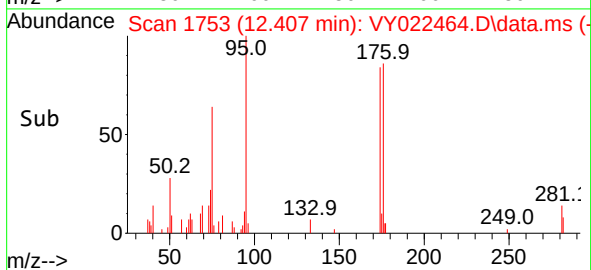
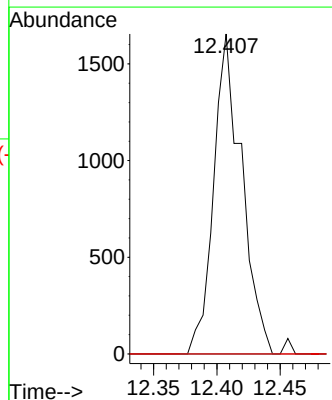
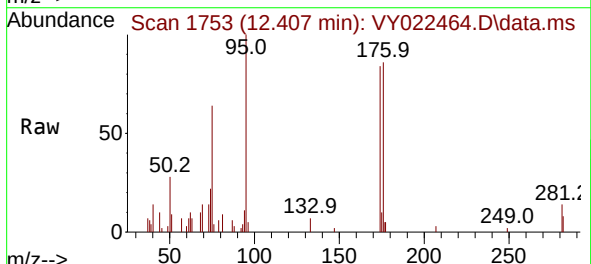
Instrument :
MSVOA_Y
ClientSampleId :
TP-47

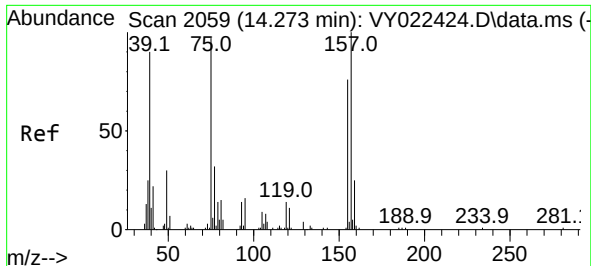
Tgt Ion: 75 Resp: 2549
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 258.763 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.103 min
Lab File: VY022464.D
Acq: 29 May 2025 13:59

Tgt Ion: 75 Resp: 2549
Ion Ratio Lower Upper
75 100
53 0.0 75.1 112.7#
89 0.0 37.4 56.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.163 ug/l

RT: 14.383 min Scan# 2059

Delta R.T. 0.110 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Instrument :

MSVOA_Y

ClientSampleId :

TP-47

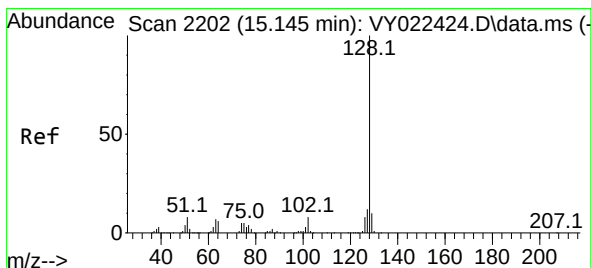
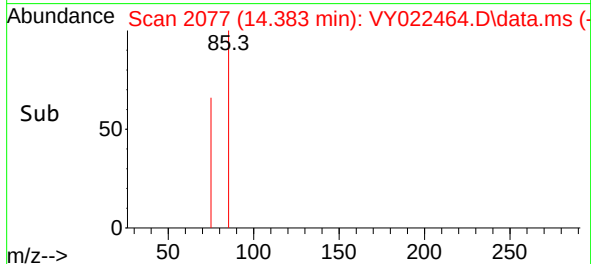
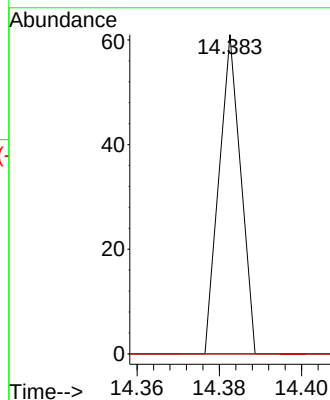
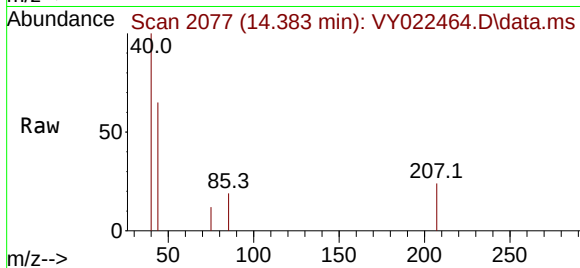
Tgt Ion: 75 Resp: 22

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 0.0 54.4 163.3#



#95

Naphthalene

Concen: 1.248 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. -0.000 min

Lab File: VY022464.D

Acq: 29 May 2025 13:59

Tgt Ion: 128 Resp: 81

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.5 12.7#

