

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030525\
 Data File : VY021422.D
 Acq On : 05 Mar 2025 18:52
 Operator : SY/MD
 Sample : Q1489-13
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-4

Quant Time: Mar 06 02:58:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

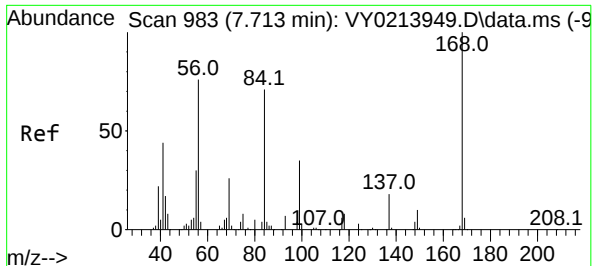
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	255796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	469966	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	404174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	141371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	167852	62.084	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.160%	
35) Dibromofluoromethane	7.634	113	160028	51.803	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.600%	
50) Toluene-d8	10.109	98	571540	48.864	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.720%	
62) 4-Bromofluorobenzene	12.408	95	164853	41.434	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 82.860%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.872	59	715	Below Cal	#	72
16) Acetone	3.873	43	37853	64.192	ug/l	93
20) Methylene Chloride	4.623	84	12581	4.064	ug/l	93
25) 2-Butanone	6.896	43	16262	19.936	ug/l	# 89
31) Cyclohexane	7.707	56	11170	2.206	ug/l	# 33
36) 1,1-Dichloropropene	7.713	75	21570	4.461	ug/l	# 51
37) Ethyl Acetate	6.896	43	16262	7.609	ug/l	# 74
38) Carbon Tetrachloride	7.707	117	26985	4.852	ug/l	# 17
69) o-Xylene	11.957	106	6829	1.165	ug/l	99
76) 1,2,3-Trichloropropane	12.408	75	88993	62.470	ug/l	# 100
78) n-propylbenzene	12.597	91	14528	1.074	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.408	75	88993	142.014	ug/l	# 9
82) 4-Chlorotoluene	12.597	91	14528	1.814	ug/l	# 41
95) Naphthalene	15.151	128	1362	1.804	ug/l	# 92

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

Quant Time: Mar 06 02:58:54 2025
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Response via : Initial Calibration

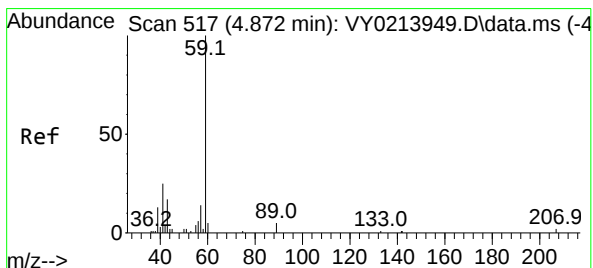
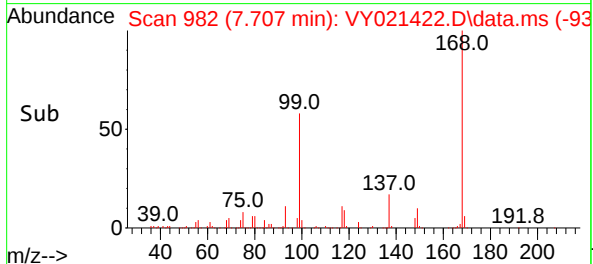
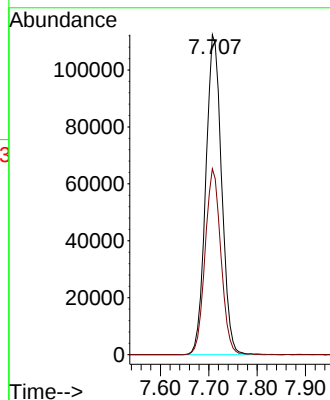
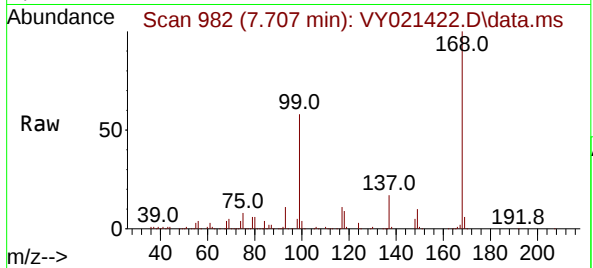




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

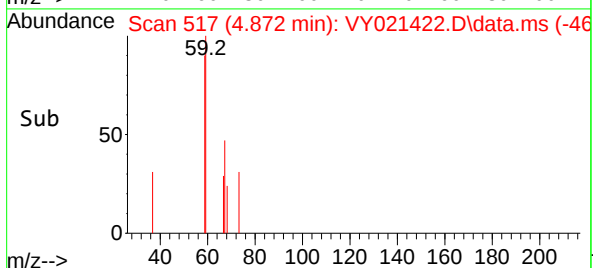
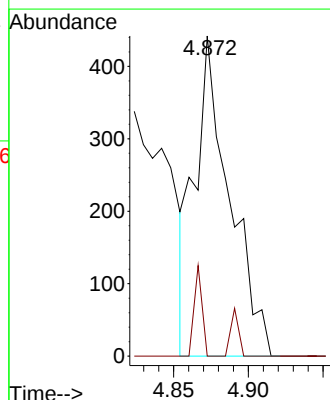
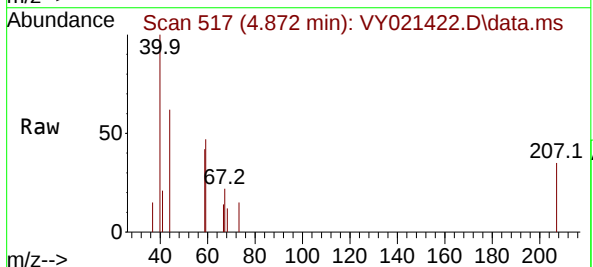
Instrument :
MSVOA_Y
ClientSampleId :
TP-4

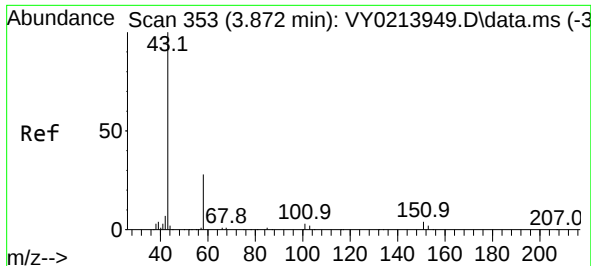
Tgt Ion:168 Resp: 255796
Ion Ratio Lower Upper
168 100
99 58.1 46.0 69.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.872 min Scan# 517
Delta R.T. 0.000 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

Tgt Ion: 59 Resp: 715
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

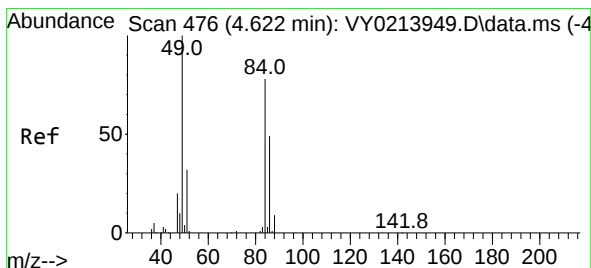
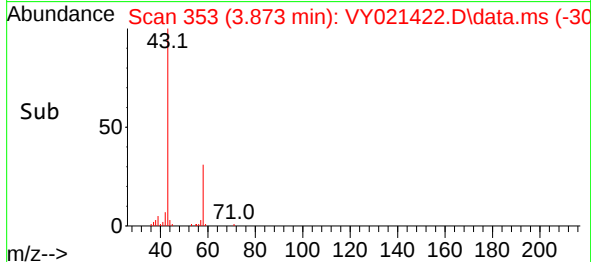
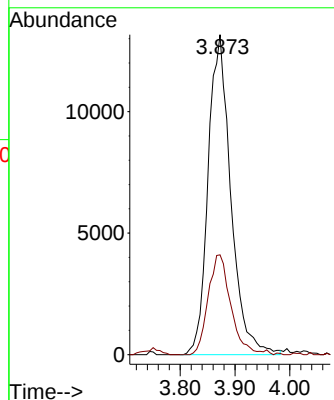
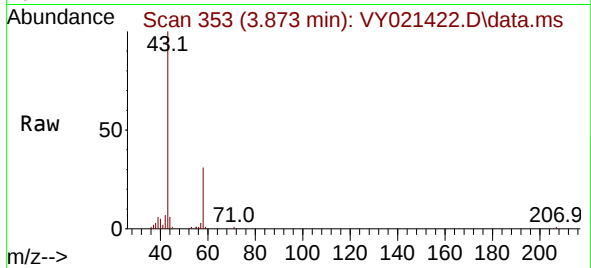




#16
Acetone
Concen: 64.192 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.001 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

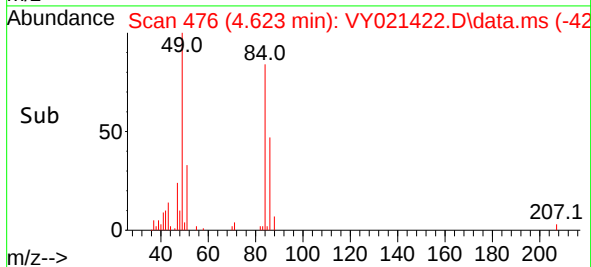
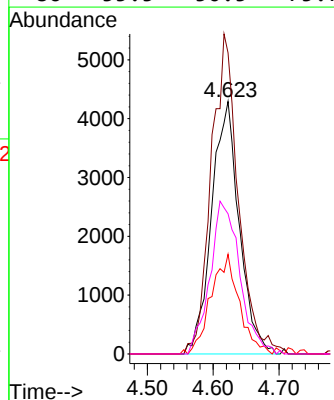
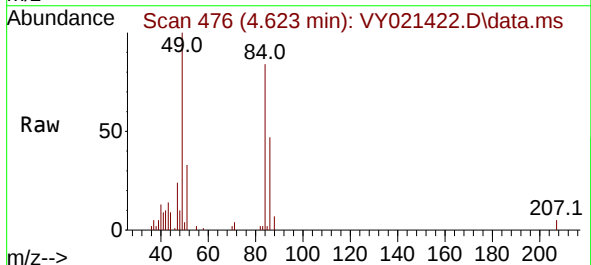
Instrument :
MSVOA_Y
ClientSampleId :
TP-4

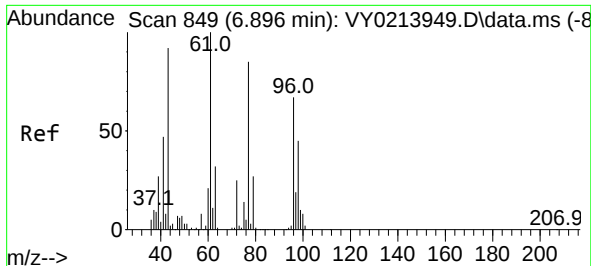
Tgt Ion: 43 Resp: 37853
Ion Ratio Lower Upper
43 100
58 31.2 22.1 33.1



#20
Methylene Chloride
Concen: 4.064 ug/l
RT: 4.623 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

Tgt Ion: 84 Resp: 12581
Ion Ratio Lower Upper
84 100
49 119.3 102.0 153.0
51 39.5 33.0 49.6
86 55.5 50.5 75.7

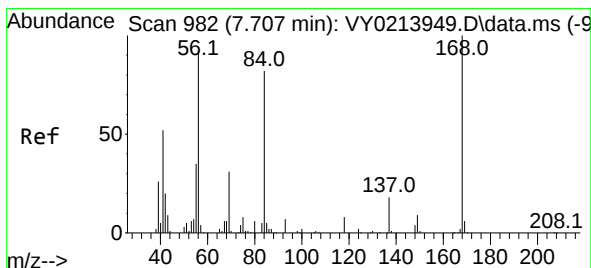
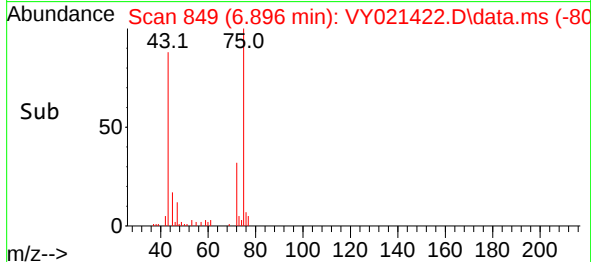
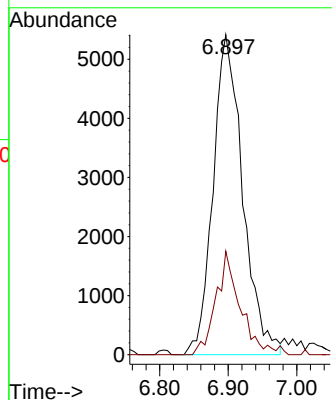
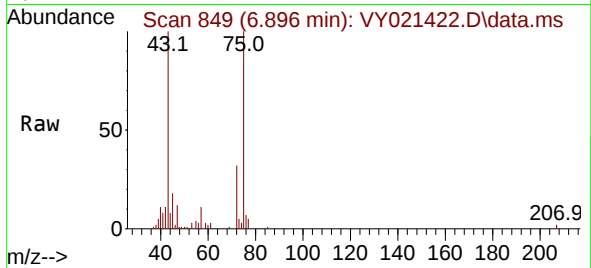




#25
2-Butanone
Concen: 19.936 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

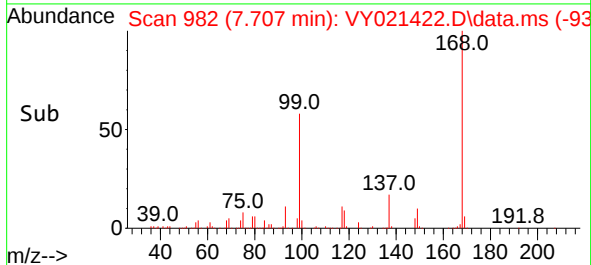
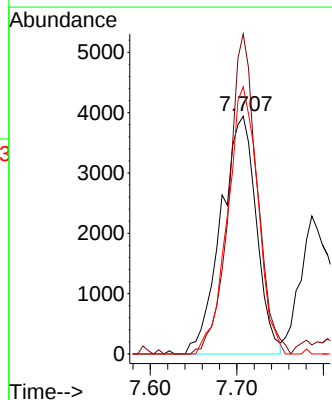
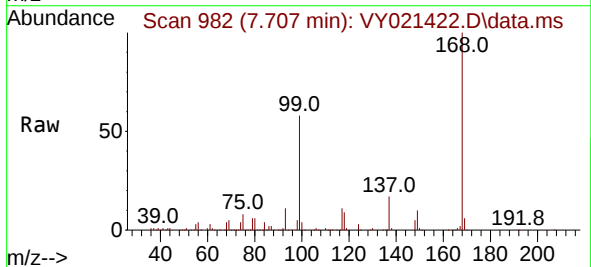
Instrument :
MSVOA_Y
ClientSampleId :
TP-4

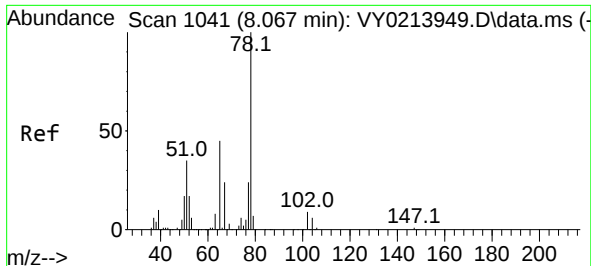
Tgt Ion: 43 Resp: 16262
Ion Ratio Lower Upper
43 100
72 32.3 21.4 32.0#



#31
Cyclohexane
Concen: 2.206 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

Tgt Ion: 56 Resp: 11170
Ion Ratio Lower Upper
56 100
69 134.6 27.0 40.4#
84 112.4 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 62.084 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY021422.D

Acq: 05 Mar 2025 18:52

Instrument :

MSVOA_Y

ClientSampleId :

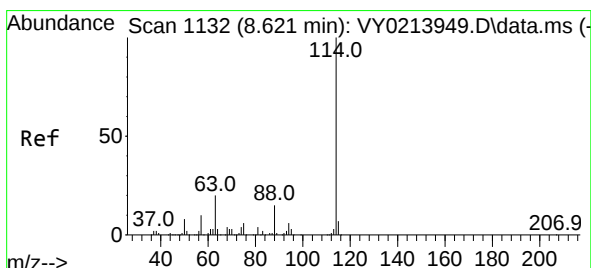
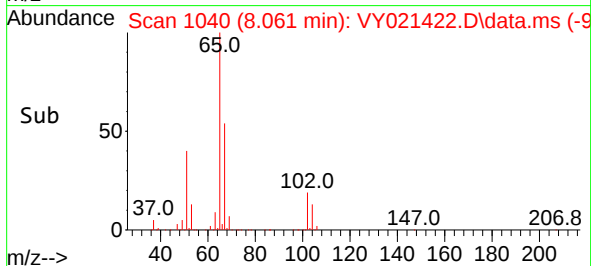
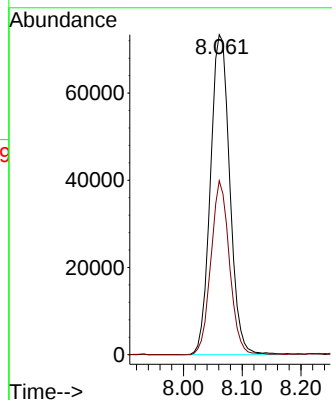
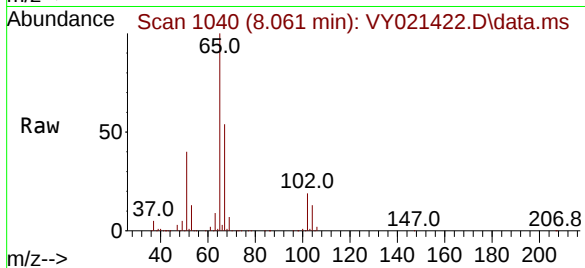
TP-4

Tgt Ion: 65 Resp: 167852

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021422.D

Acq: 05 Mar 2025 18:52

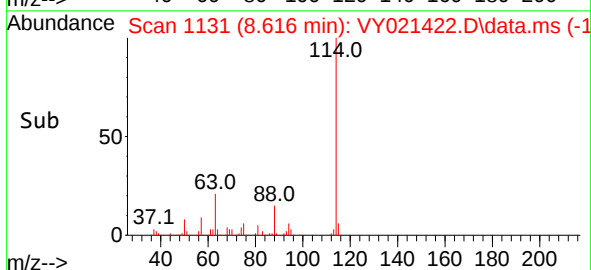
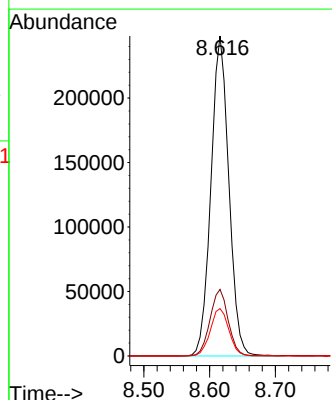
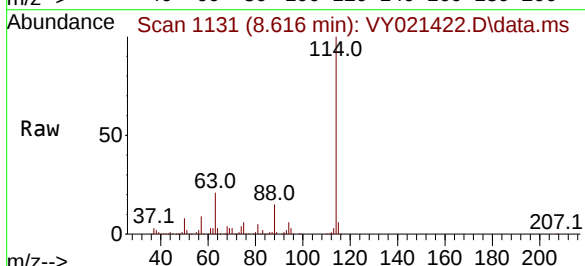
Tgt Ion: 114 Resp: 469966

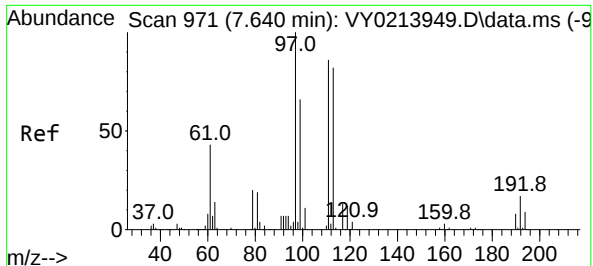
Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.8

88 14.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 51.803 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021422.D

Acq: 05 Mar 2025 18:52

Instrument :

MSVOA_Y

ClientSampleId :

TP-4

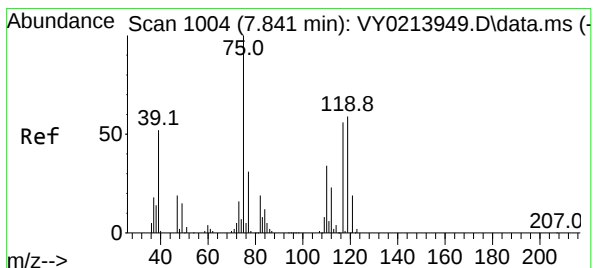
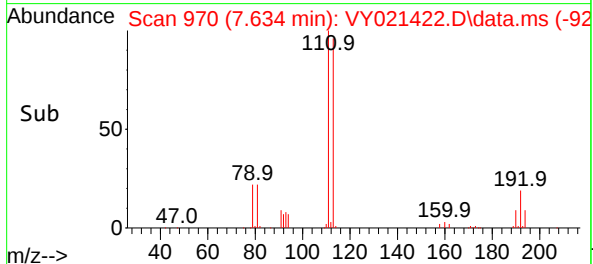
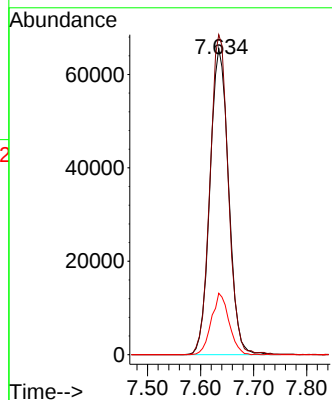
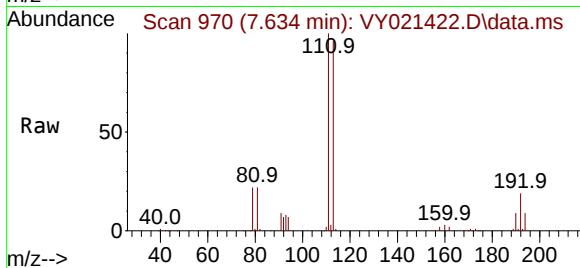
Tgt Ion:113 Resp: 160028

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

192 19.0 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.461 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.128 min

Lab File: VY021422.D

Acq: 05 Mar 2025 18:52

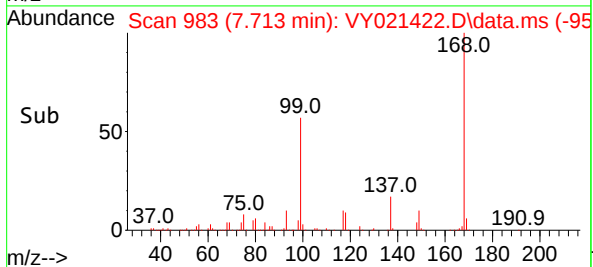
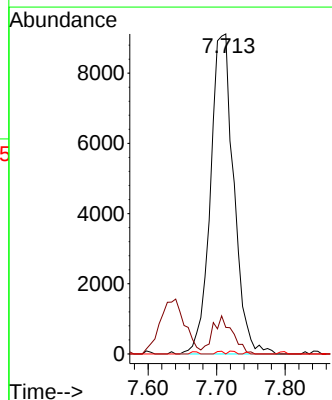
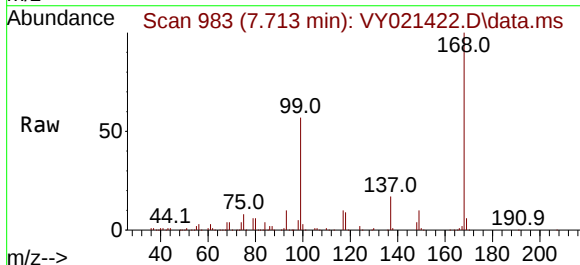
Tgt Ion: 75 Resp: 21570

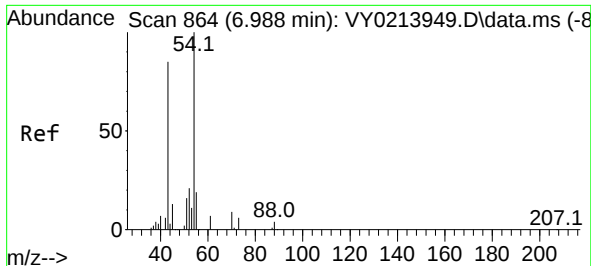
Ion Ratio Lower Upper

75 100

110 10.0 17.3 51.7#

77 0.2 25.4 38.2#





#37

Ethyl Acetate

Concen: 7.609 ug/l

RT: 6.896 min Scan# 84

Delta R.T. -0.091 min

Lab File: VY021422.D

Acq: 05 Mar 2025 18:52

Instrument :

MSVOA_Y

ClientSampleId :

TP-4

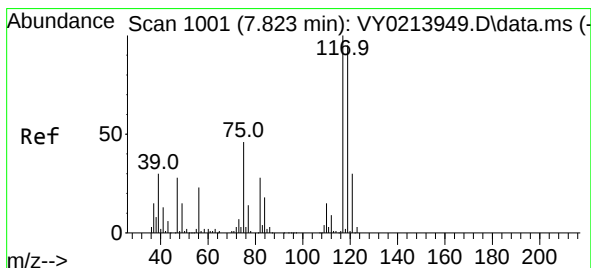
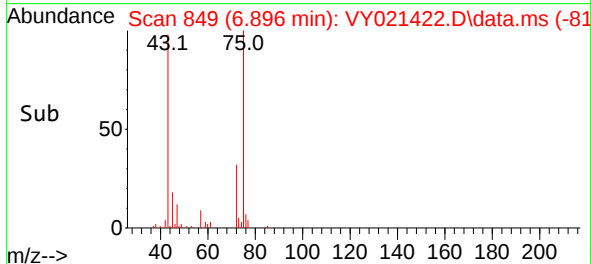
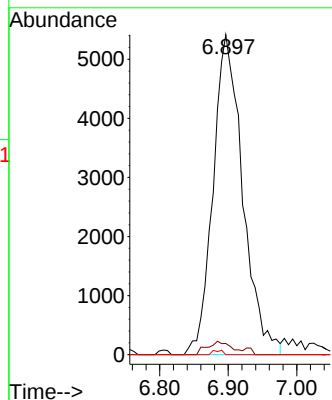
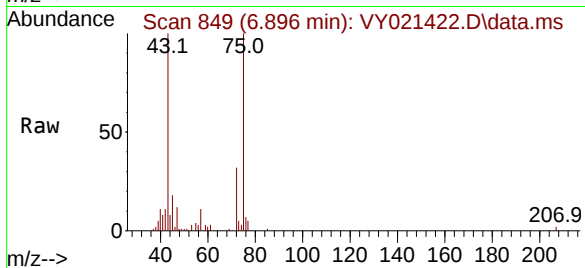
Tgt Ion: 43 Resp: 16262

Ion Ratio Lower Upper

43 100

61 3.4 11.4 17.0#

70 0.4 8.2 12.2#



#38

Carbon Tetrachloride

Concen: 4.852 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.115 min

Lab File: VY021422.D

Acq: 05 Mar 2025 18:52

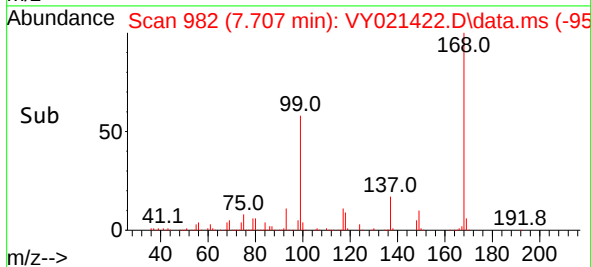
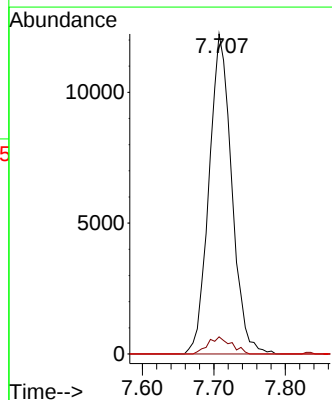
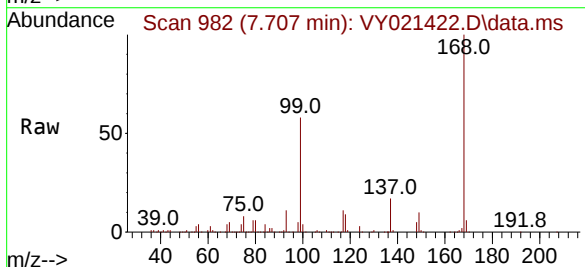
Tgt Ion: 117 Resp: 26985

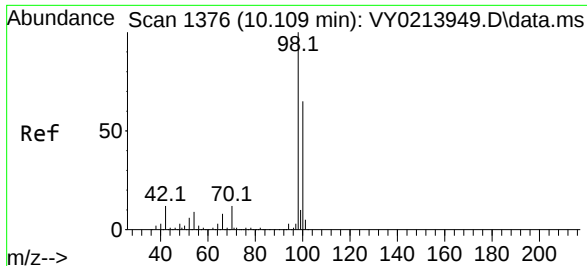
Ion Ratio Lower Upper

117 100

119 5.4 75.8 113.8#

121 0.0 23.9 35.9#

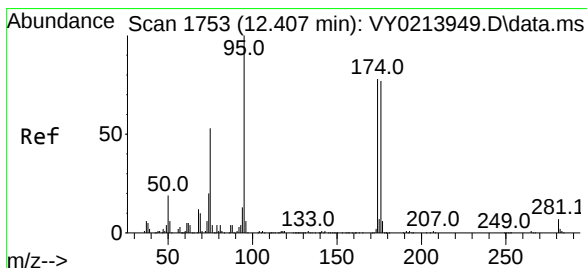
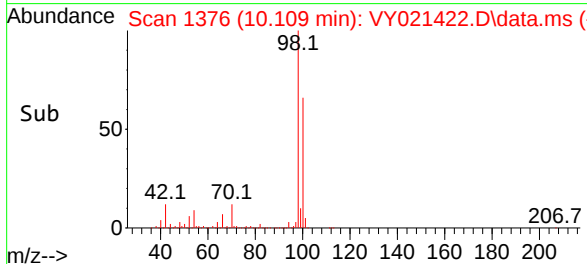
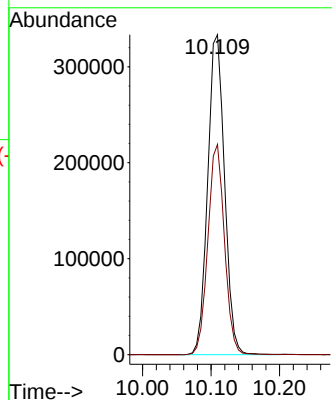
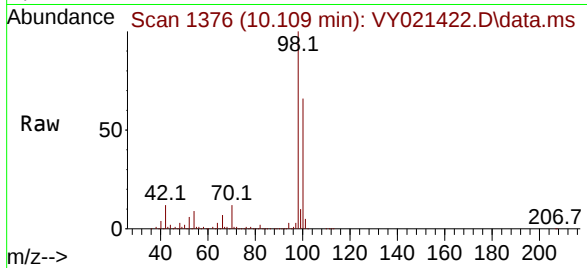




#50
Toluene-d8
Concen: 48.864 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

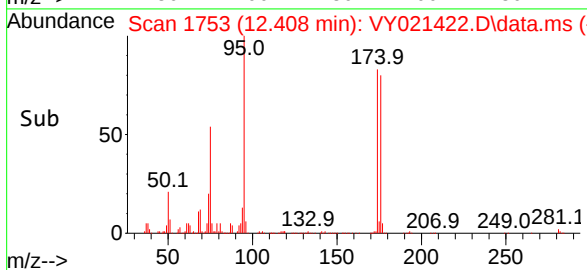
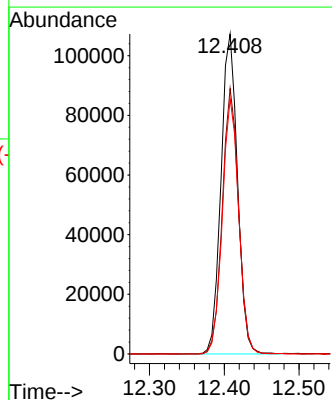
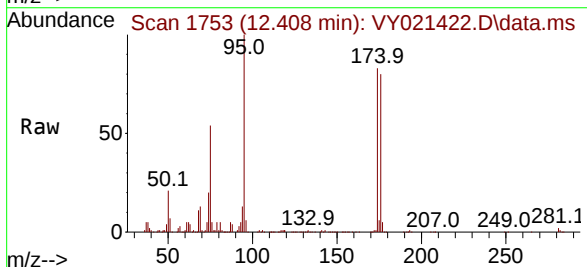
Instrument :
MSVOA_Y
ClientSampleId :
TP-4

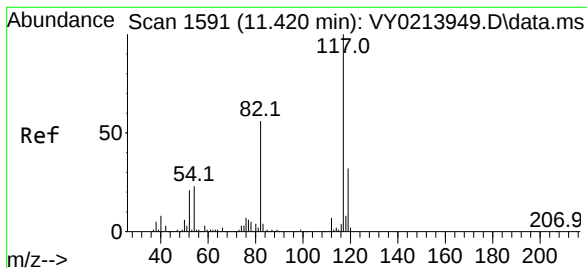
Tgt Ion: 98 Resp: 571540
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 41.434 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

Tgt Ion: 95 Resp: 164853
Ion Ratio Lower Upper
95 100
174 81.9 0.0 165.0
176 78.8 0.0 160.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY021422.D

Acq: 05 Mar 2025 18:52

Instrument :

MSVOA_Y

ClientSampleId :

TP-4

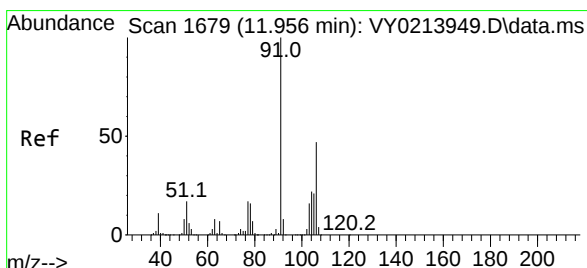
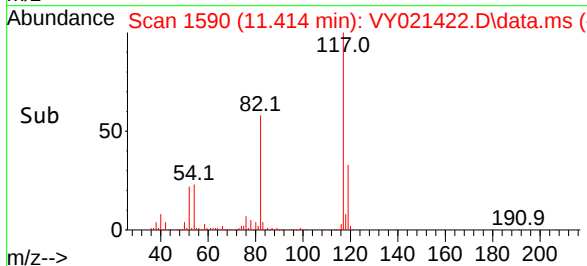
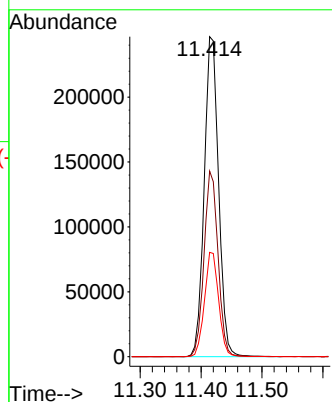
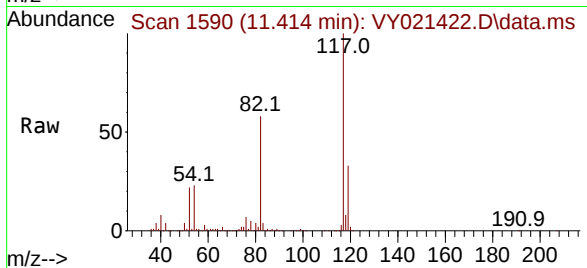
Tgt Ion:117 Resp: 404174

Ion Ratio Lower Upper

117 100

82 58.0 44.6 67.0

119 32.6 25.4 38.0



#69

o-Xylene

Concen: 1.165 ug/l

RT: 11.957 min Scan# 1679

Delta R.T. 0.000 min

Lab File: VY021422.D

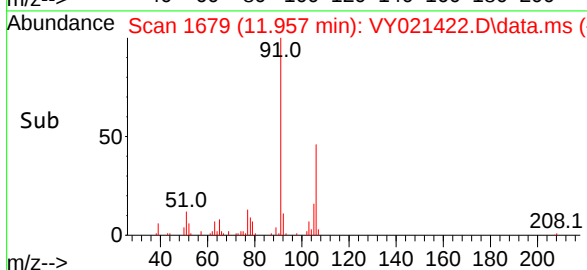
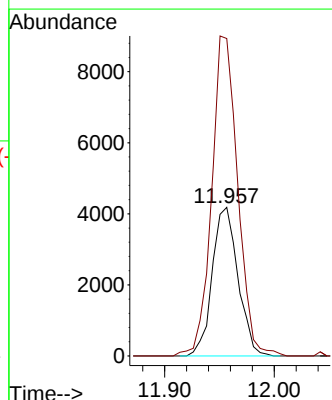
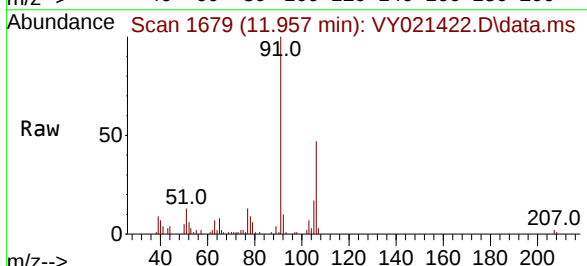
Acq: 05 Mar 2025 18:52

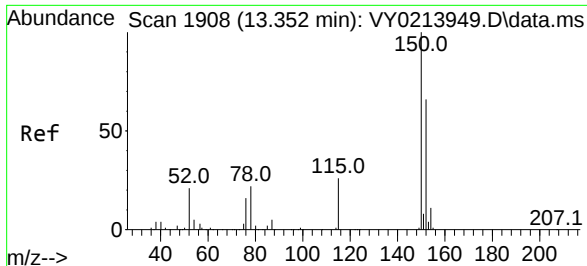
Tgt Ion:106 Resp: 6829

Ion Ratio Lower Upper

106 100

91 217.3 107.6 322.8

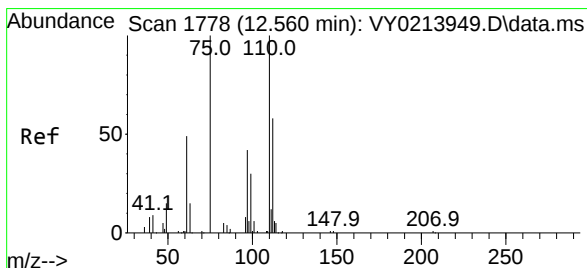
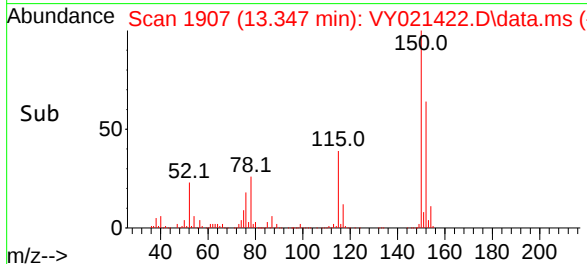
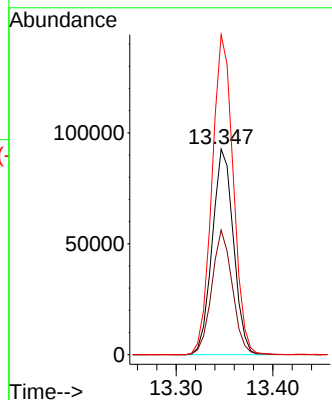
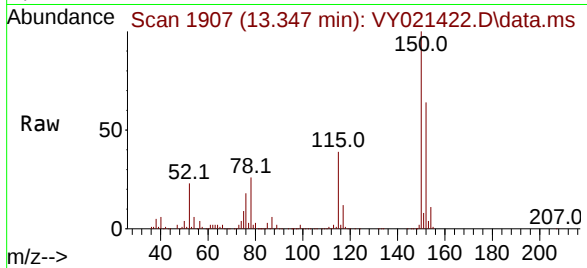




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.347 min Scan# 1908
 Delta R.T. -0.006 min
 Lab File: VY021422.D
 Acq: 05 Mar 2025 18:52

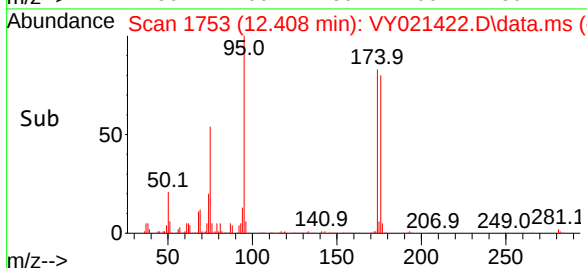
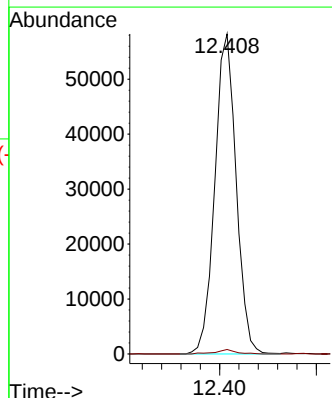
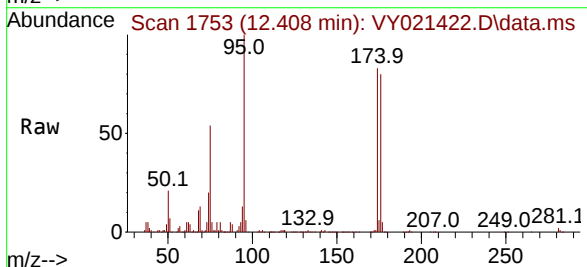
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-4

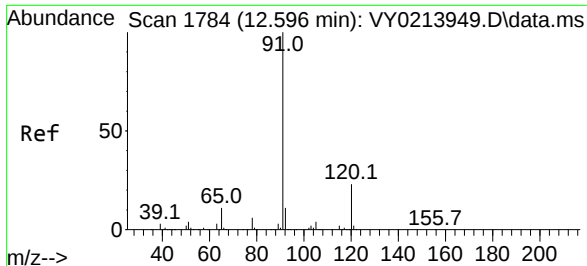
Tgt Ion:152 Resp: 141371
 Ion Ratio Lower Upper
 152 100
 115 58.7 29.0 87.0
 150 155.5 0.0 347.2



#76
 1,2,3-Trichloropropane
 Concen: 62.470 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.152 min
 Lab File: VY021422.D
 Acq: 05 Mar 2025 18:52

Tgt Ion: 75 Resp: 88993
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#

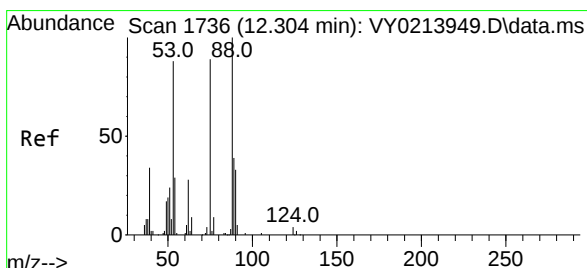
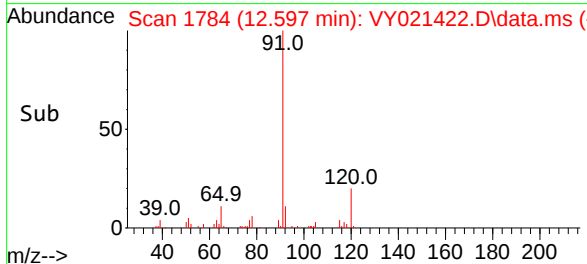
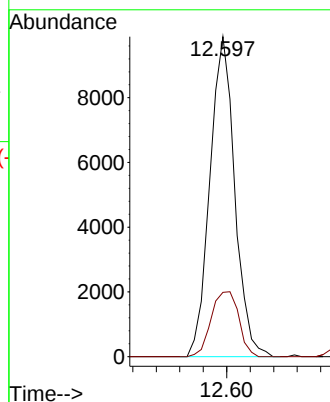
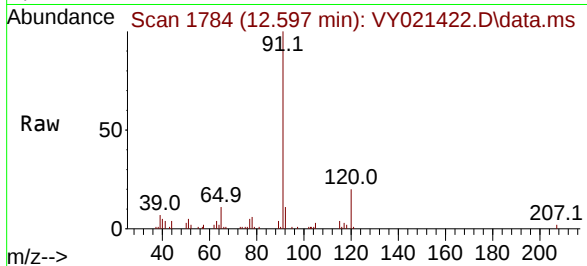




#78
n-propylbenzene
Concen: 1.074 ug/l
RT: 12.597 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

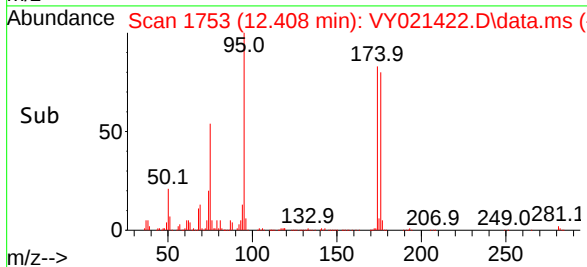
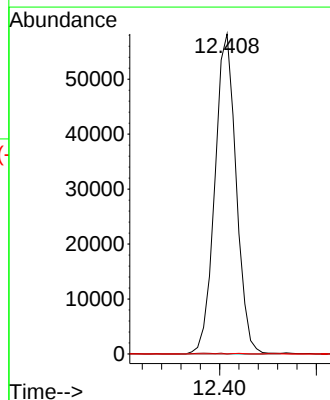
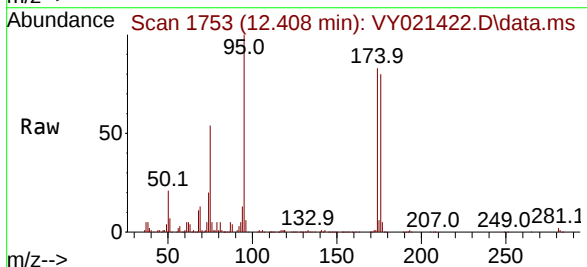
Instrument :
MSVOA_Y
ClientSampleId :
TP-4

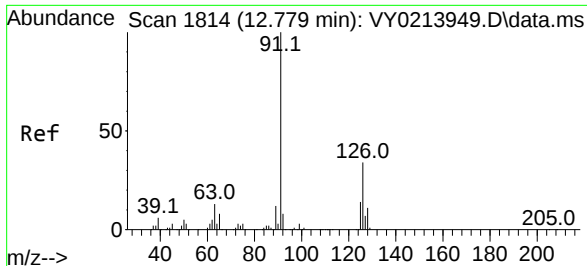
Tgt Ion: 91 Resp: 14528
Ion Ratio Lower Upper
91 100
120 22.5 11.3 33.8



#81
trans-1,4-Dichloro-2-butene
Concen: 142.014 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

Tgt Ion: 75 Resp: 88993
Ion Ratio Lower Upper
75 100
53 0.3 81.0 121.4#
89 0.1 36.9 55.3#

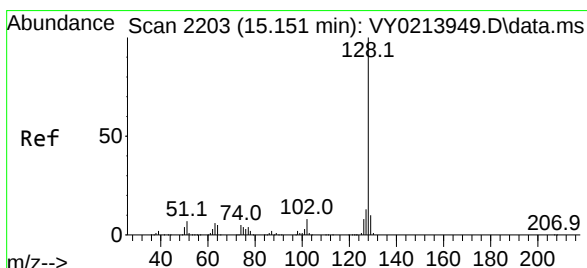
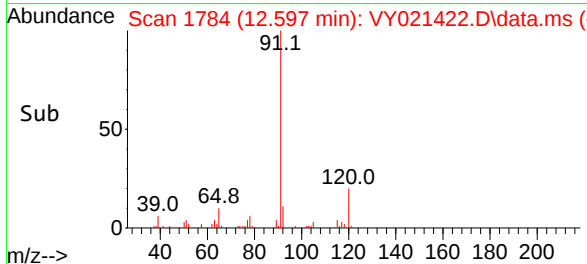
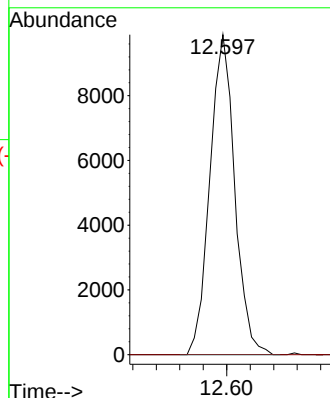
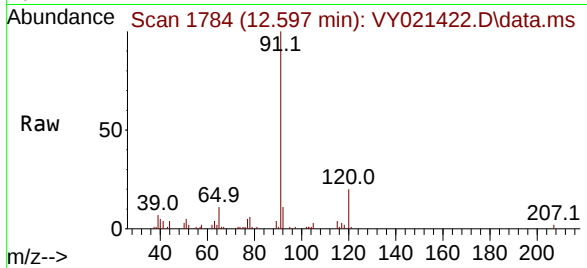




#82
4-Chlorotoluene
Concen: 1.814 ug/l
RT: 12.597 min Scan# 11
Delta R.T. -0.182 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Tgt Ion: 91 Resp: 14528
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#



#95
Naphthalene
Concen: 1.804 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.000 min
Lab File: VY021422.D
Acq: 05 Mar 2025 18:52

Tgt Ion: 128 Resp: 1362
Ion Ratio Lower Upper
128 100
127 9.3 10.6 15.8#
129 8.6 8.6 13.0#

