

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040225\
 Data File : VY021754.D
 Acq On : 02 Apr 2025 12:58
 Operator : SY/MD
 Sample : Q1688-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-040125

Quant Time: Apr 03 03:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

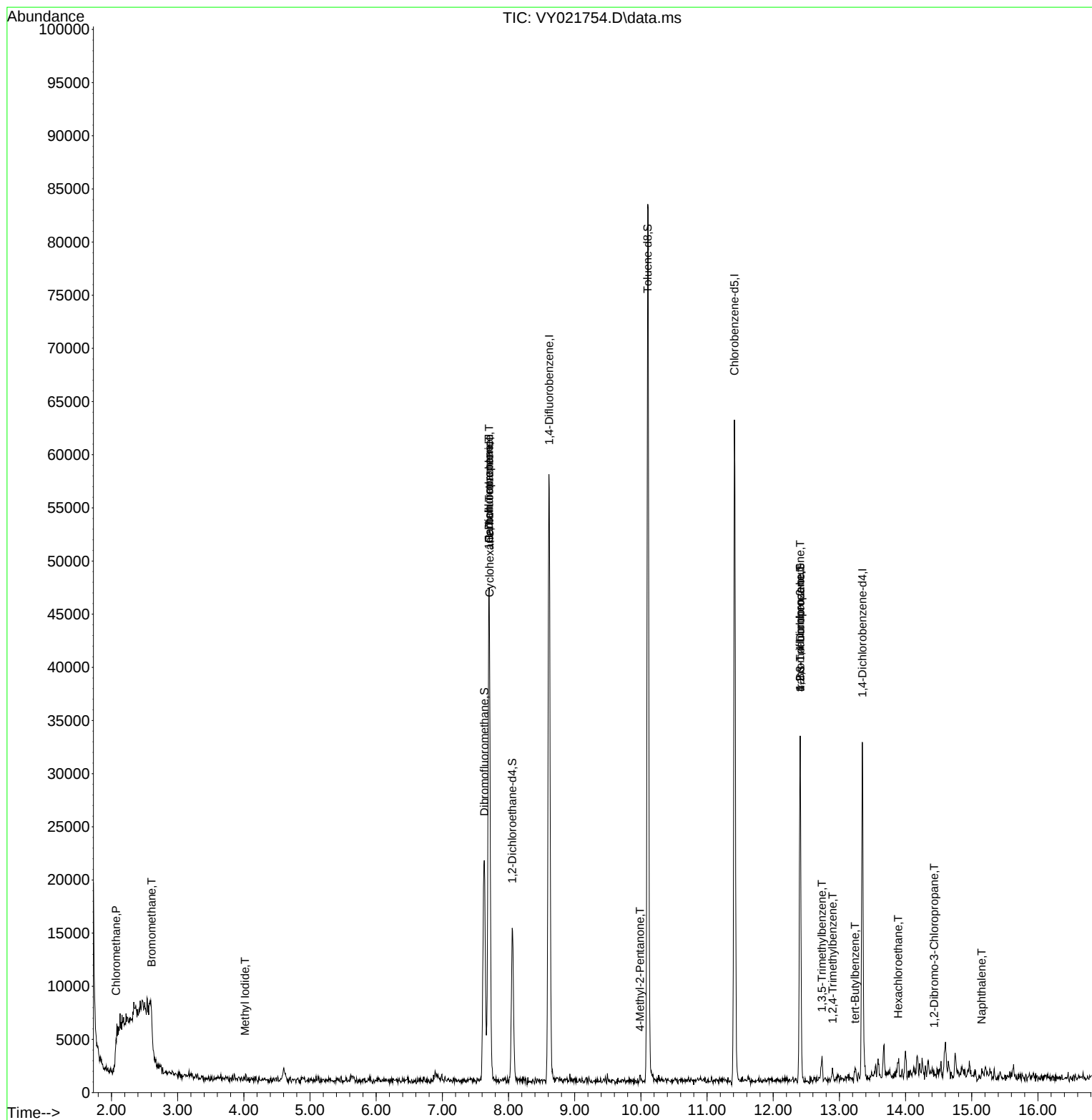
Internal Standards						
1) Pentafluorobenzene	7.707	168	36162	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	48682	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	32568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	7425	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	11880	30.321	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	60.640%
35) Dibromofluoromethane	7.634	113	15557	49.263	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.520%
50) Toluene-d8	10.103	98	54432	45.308	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.620%
62) 4-Bromofluorobenzene	12.407	95	9676	23.811	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	47.620%
Target Compounds						Qvalue
3) Chloromethane	2.068	50	531	1.008	ug/l	89
5) Bromomethane	2.604	94	527	1.296	ug/l #	66
10) Methyl Iodide	4.019	142	459	1.039	ug/l #	84
20) Methylene Chloride	4.610	84	706	Below Cal	#	51
31) Cyclohexane	7.713	56	928	1.342	ug/l #	34
36) 1,1-Dichloropropene	7.701	75	3501	7.279	ug/l #	48
38) Carbon Tetrachloride	7.707	117	3860	7.007	ug/l #	15
51) 4-Methyl-2-Pentanone	9.987	43	406	1.814	ug/l #	55
76) 1,2,3-Trichloropropane	12.407	75	5177	70.339	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	752	1.668	ug/l	81
81) trans-1,4-Dichloro-2-b...	12.407	75	5177	162.073	ug/l #	11
83) tert-Butylbenzene	13.237	119	471	1.173	ug/l #	53
84) 1,2,4-Trimethylbenzene	12.895	105	547	1.228	ug/l	81
90) Hexachloroethane	13.889	117	125	1.176	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.431	75	20	1.301	ug/l #	1
95) Naphthalene	15.151	128	264	1.293	ug/l #	68

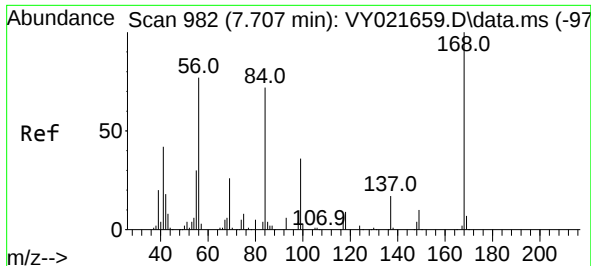
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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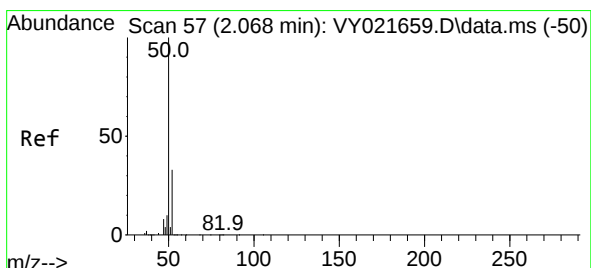
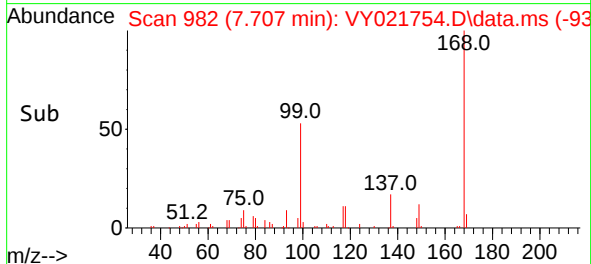
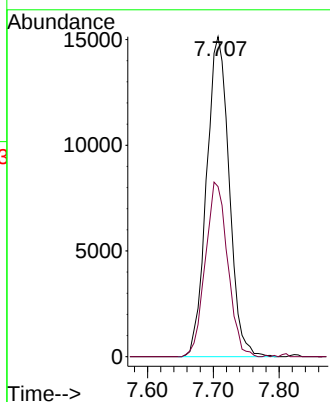
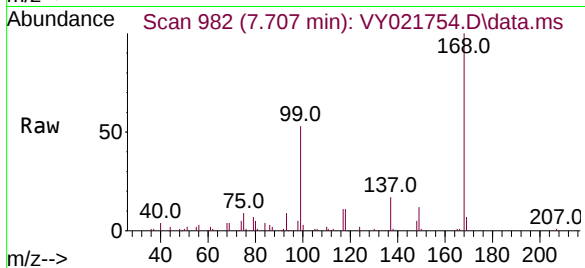




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

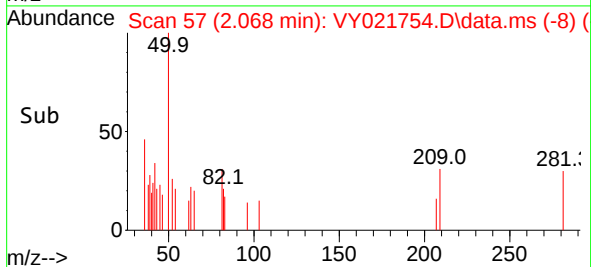
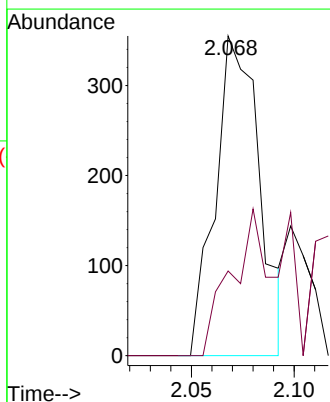
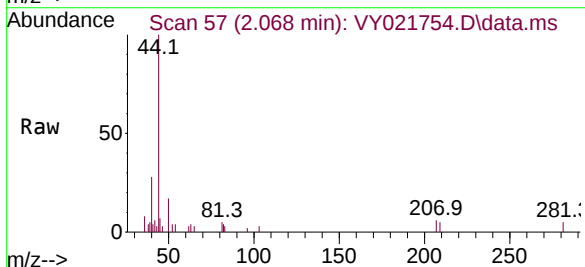
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-040125

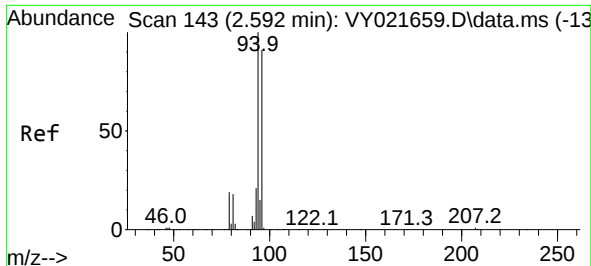
Tgt Ion:168 Resp: 36162
Ion Ratio Lower Upper
168 100
99 53.2 46.7 70.1



#3
Chloromethane
Concen: 1.008 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

Tgt Ion: 50 Resp: 531
Ion Ratio Lower Upper
50 100
52 26.5 26.3 39.5

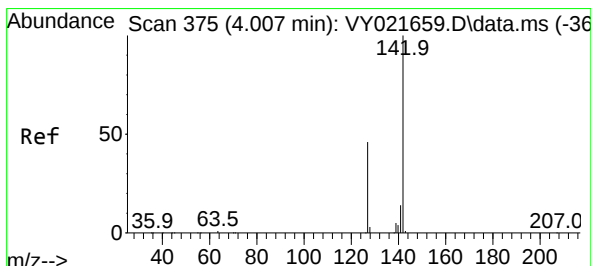
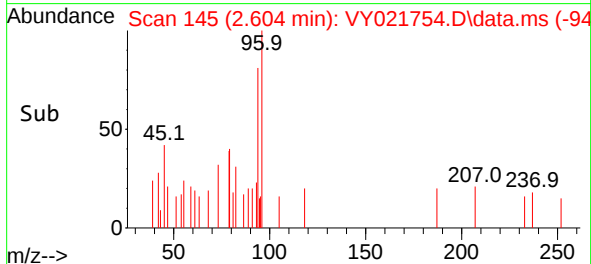
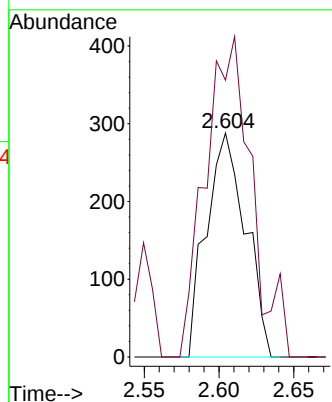
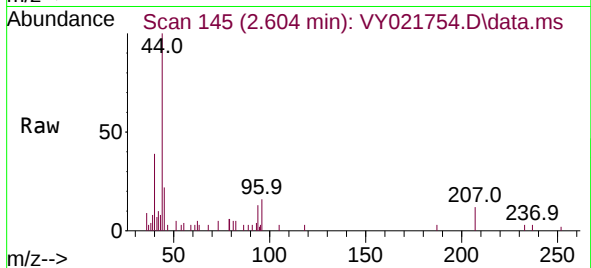




#5
Bromomethane
Concen: 1.296 ug/l
RT: 2.604 min Scan# 143
Delta R.T. 0.012 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

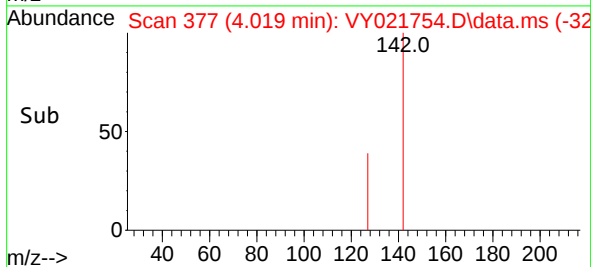
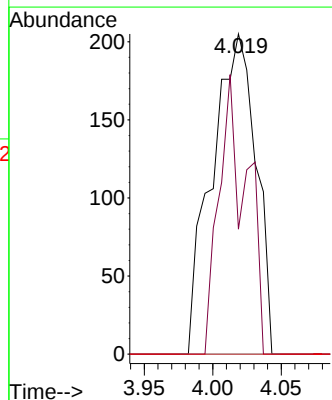
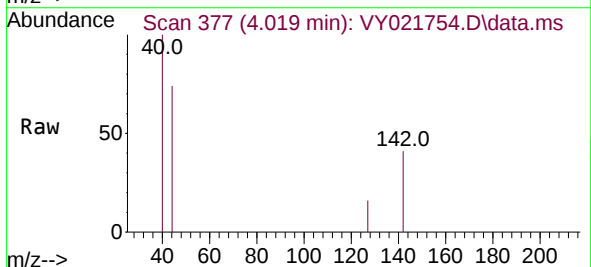
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-040125

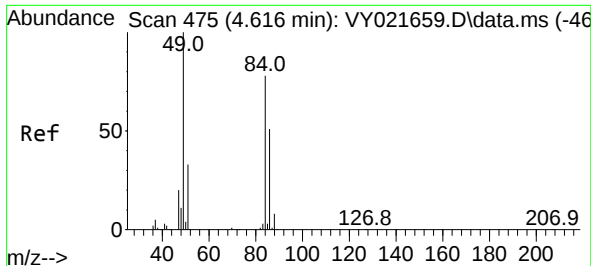
Tgt Ion: 94 Resp: 527
Ion Ratio Lower Upper
94 100
96 123.6 72.8 109.2#



#10
Methyl Iodide
Concen: 1.039 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.012 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

Tgt Ion: 142 Resp: 459
Ion Ratio Lower Upper
142 100
127 55.1 38.7 58.1
141 0.0 11.5 17.3#

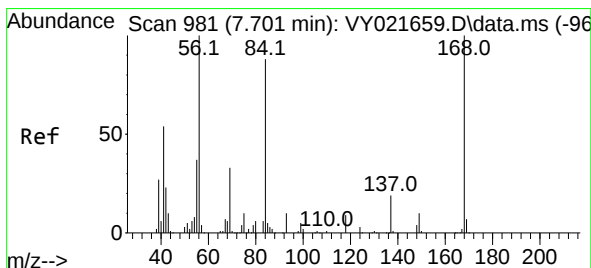
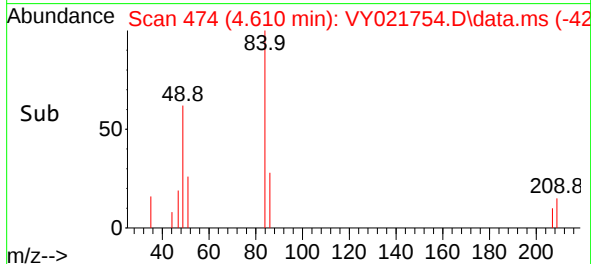
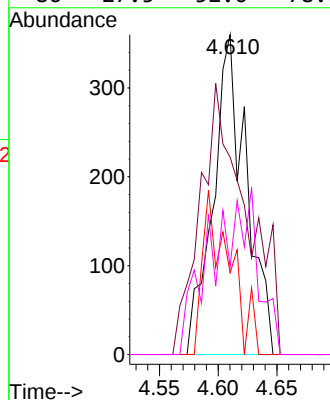
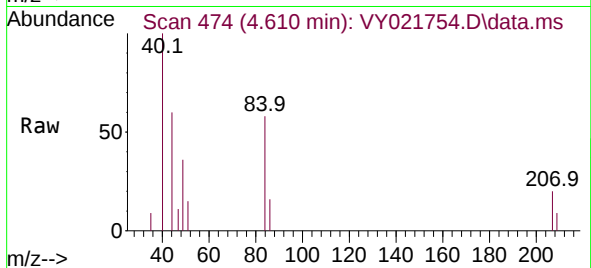




#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

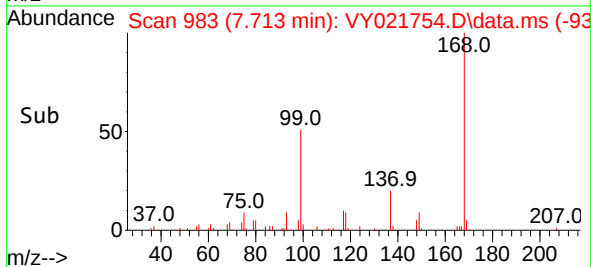
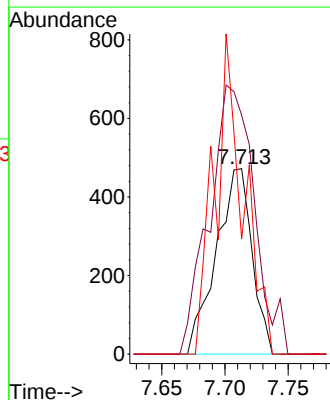
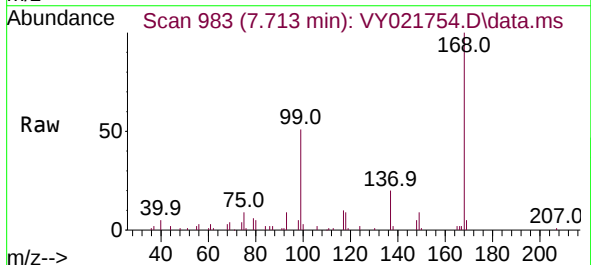
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-040125

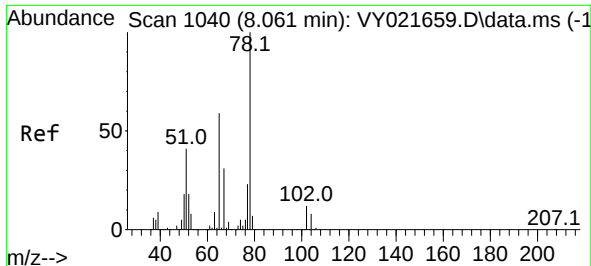
Tgt Ion: 84 Resp: 706
Ion Ratio Lower Upper
84 100
49 61.7 102.8 154.2#
51 25.6 33.5 50.3#
86 27.5 52.0 78.0#



#31
Cyclohexane
Concen: 1.342 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

Tgt Ion: 56 Resp: 928
Ion Ratio Lower Upper
56 100
69 128.8 26.6 40.0#
84 62.1 69.0 103.4#





#33

1,2-Dichloroethane-d4

Concen: 30.321 ug/l

RT: 8.055 min Scan# 11039

Delta R.T. -0.006 min

Lab File: VY021754.D

Acq: 02 Apr 2025 12:58

Instrument :

MSVOA_Y

ClientSampleId :

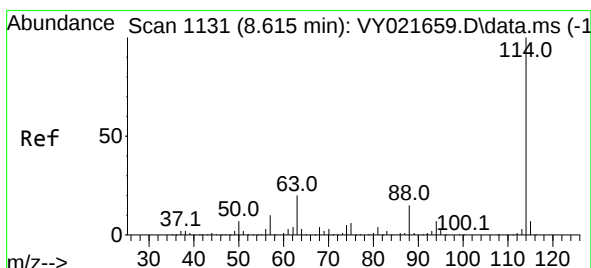
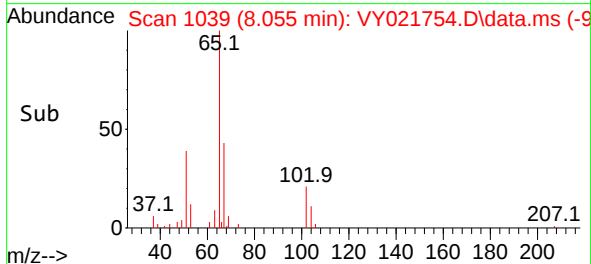
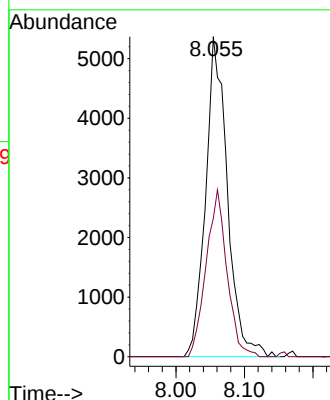
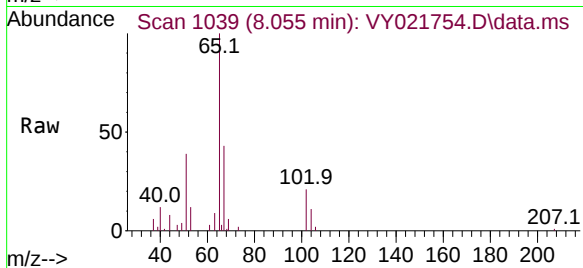
OR-02-040125

Tgt Ion: 65 Resp: 11880

Ion Ratio Lower Upper

65 100

67 49.9 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY021754.D

Acq: 02 Apr 2025 12:58

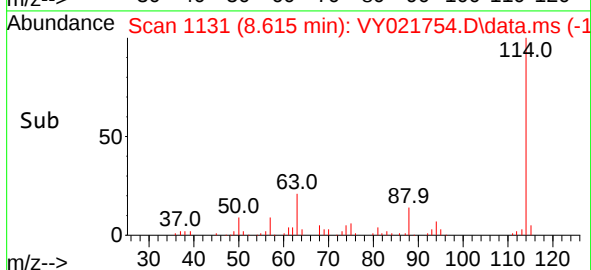
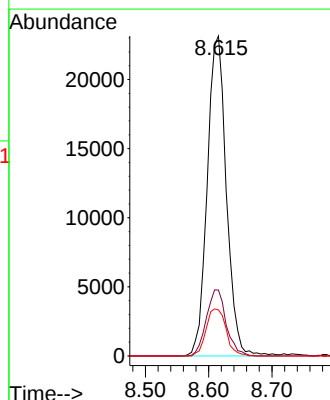
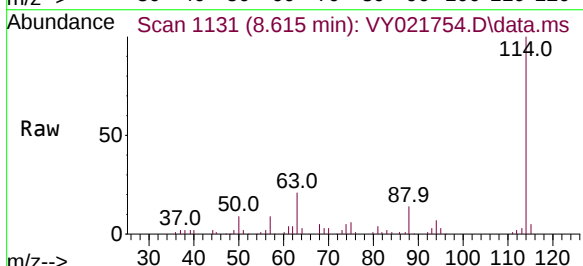
Tgt Ion: 114 Resp: 48682

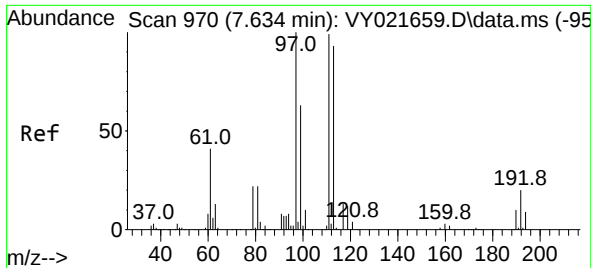
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.2

88 14.4 0.0 29.8

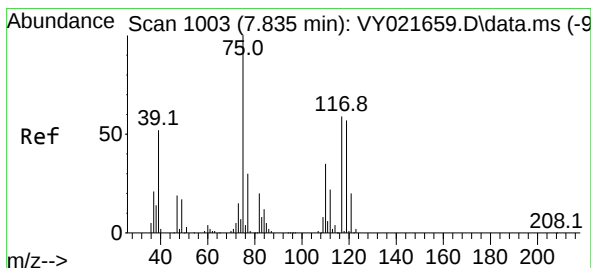
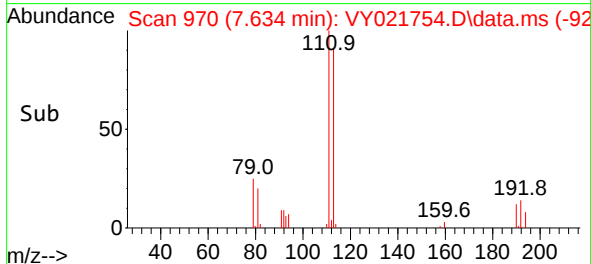
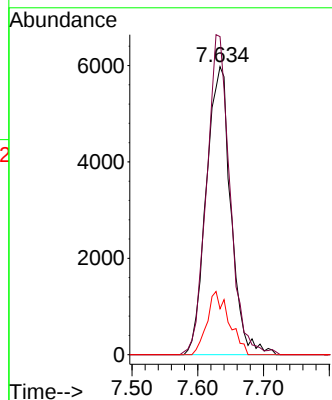
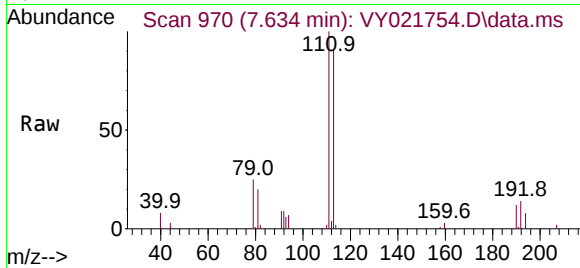




#35
Dibromofluoromethane
Concen: 49.263 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

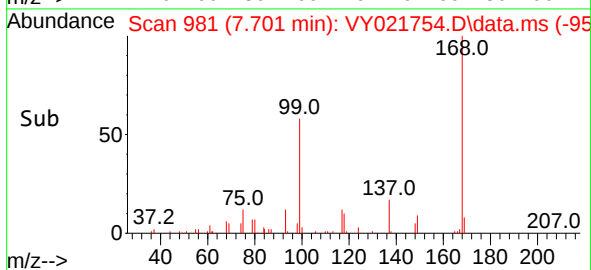
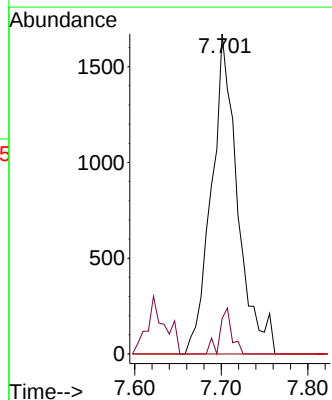
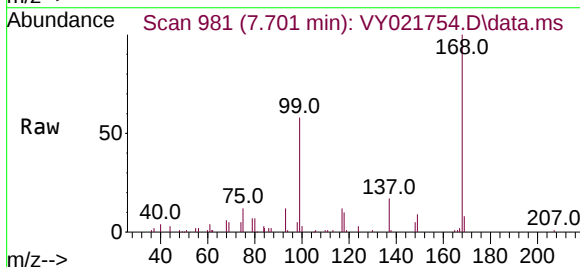
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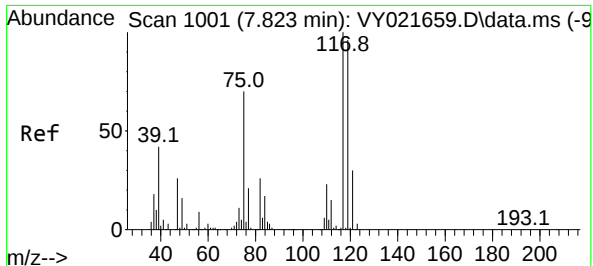
Tgt Ion:113 Resp: 15557
Ion Ratio Lower Upper
113 100
111 105.3 82.6 123.8
192 19.7 16.2 24.4



#36
1,1-Dichloropropene
Concen: 7.279 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.134 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

Tgt Ion: 75 Resp: 3501
Ion Ratio Lower Upper
75 100
110 6.7 17.0 50.9#
77 0.0 24.8 37.2#

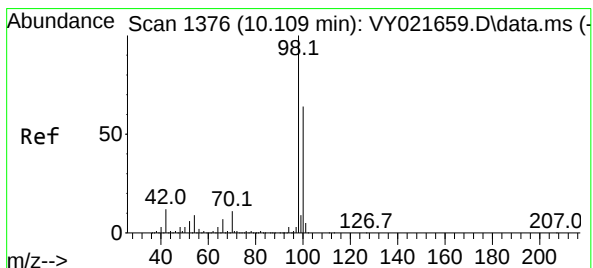
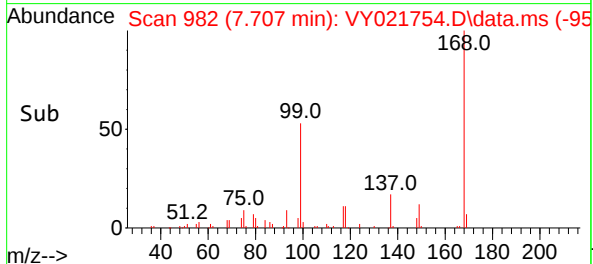
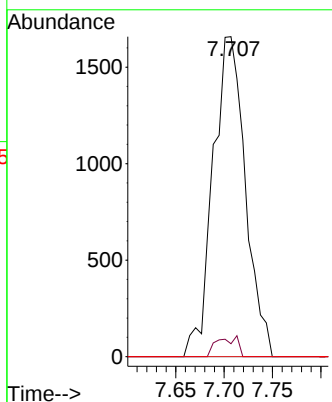
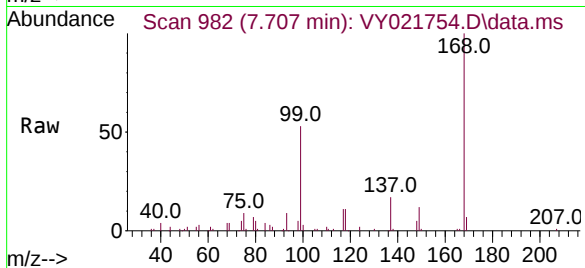




#38
Carbon Tetrachloride
Concen: 7.007 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

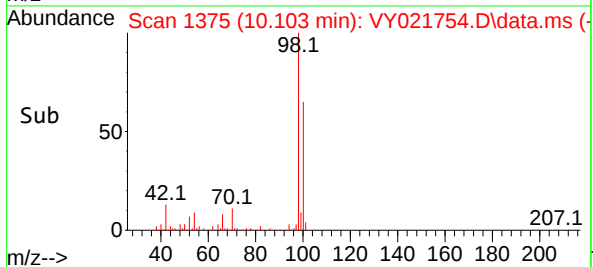
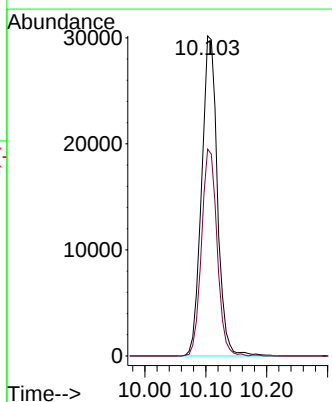
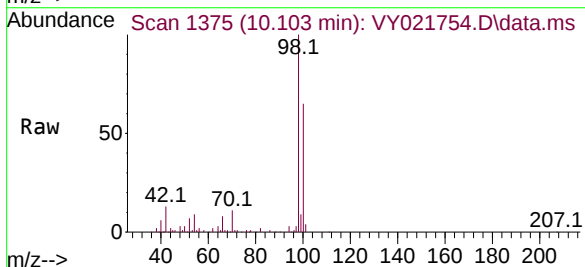
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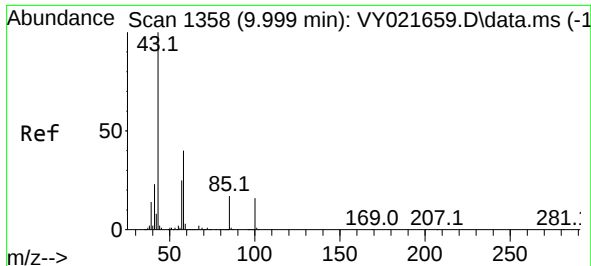
Tgt Ion:117 Resp: 3860
Ion Ratio Lower Upper
117 100
119 4.0 76.2 114.4#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 45.308 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

Tgt Ion: 98 Resp: 54432
Ion Ratio Lower Upper
98 100
100 63.8 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.814 ug/l

RT: 9.987 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY021754.D

Acq: 02 Apr 2025 12:58

Instrument :

MSVOA_Y

ClientSampleId :

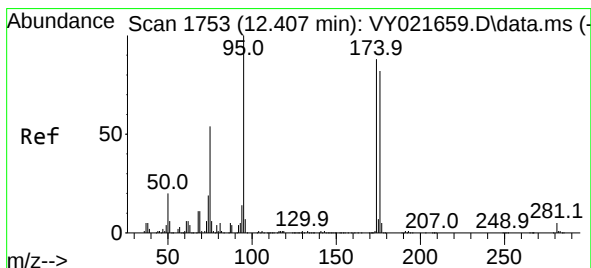
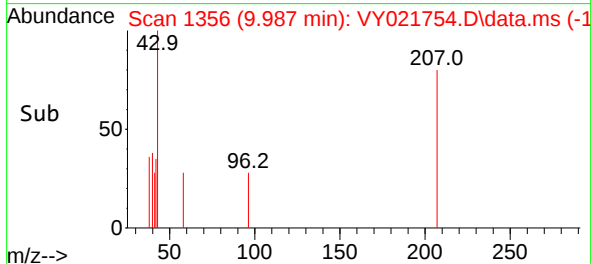
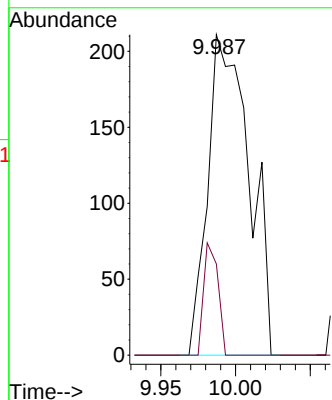
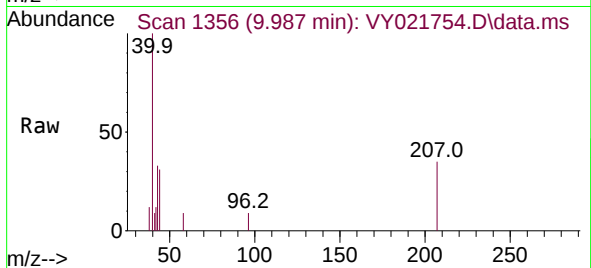
OR-02-040125

Tgt Ion: 43 Resp: 406

Ion Ratio Lower Upper

43 100

58 12.1 31.5 47.3#



#62

4-Bromofluorobenzene

Concen: 23.811 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY021754.D

Acq: 02 Apr 2025 12:58

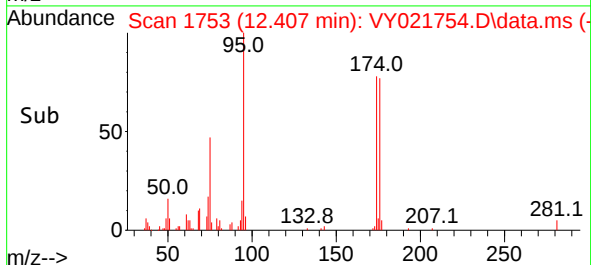
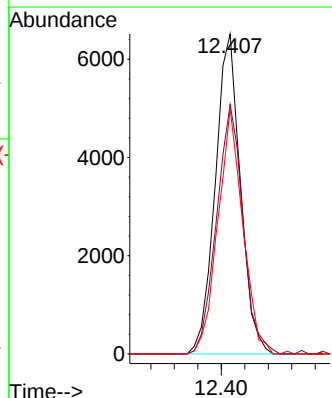
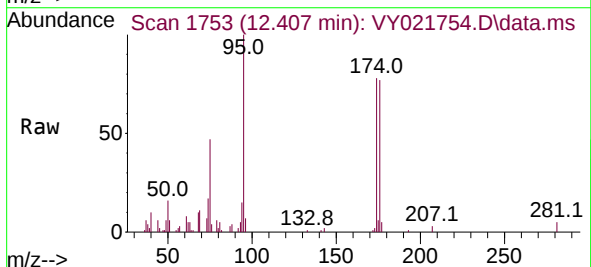
Tgt Ion: 95 Resp: 9676

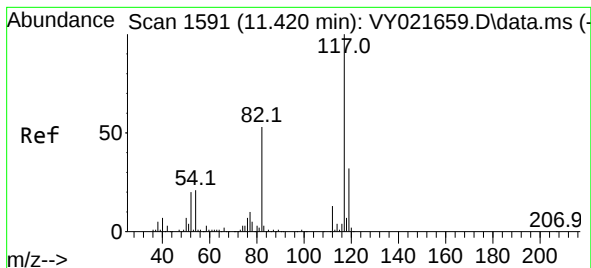
Ion Ratio Lower Upper

95 100

174 81.7 0.0 170.8

176 75.9 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021754.D

Acq: 02 Apr 2025 12:58

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-040125

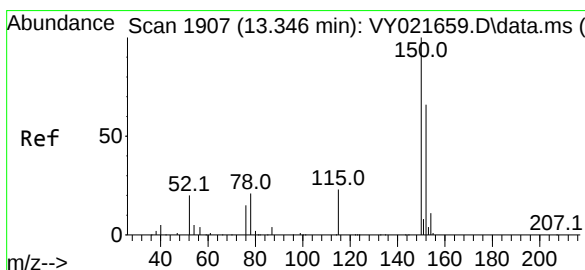
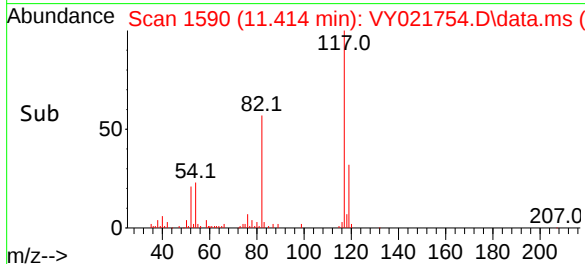
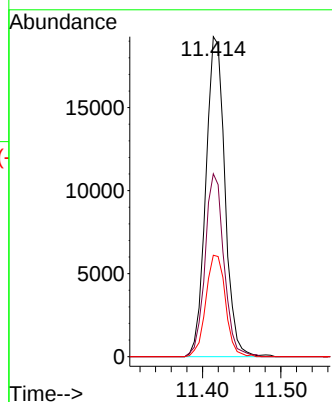
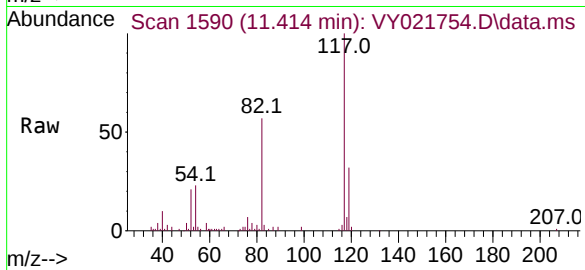
Tgt Ion:117 Resp: 32568

Ion Ratio Lower Upper

117 100

82 57.2 42.8 64.2

119 31.7 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY021754.D

Acq: 02 Apr 2025 12:58

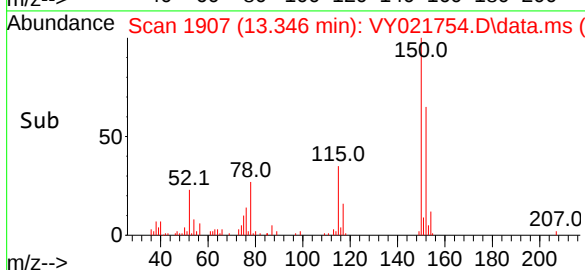
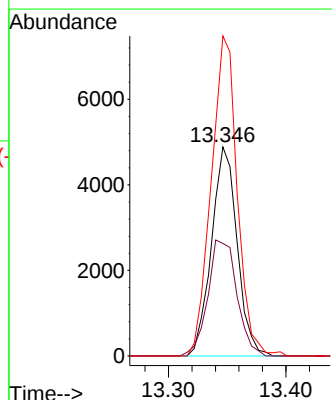
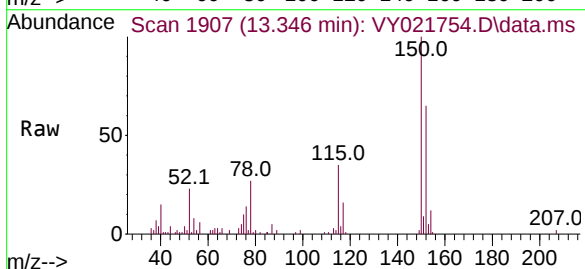
Tgt Ion:152 Resp: 7425

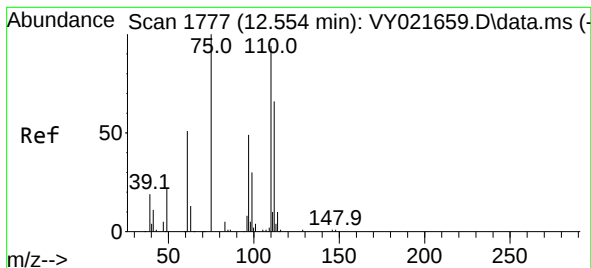
Ion Ratio Lower Upper

152 100

115 62.6 28.8 86.5

150 155.3 0.0 348.4





#76

1,2,3-Trichloropropane

Concen: 70.339 ug/l

RT: 12.407 min Scan# 1777

Delta R.T. -0.146 min

Lab File: VY021754.D

Acq: 02 Apr 2025 12:58

Instrument :

MSVOA_Y

ClientSampleId :

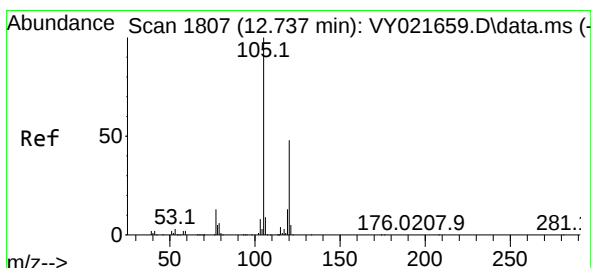
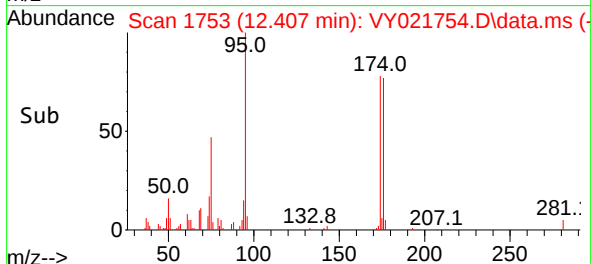
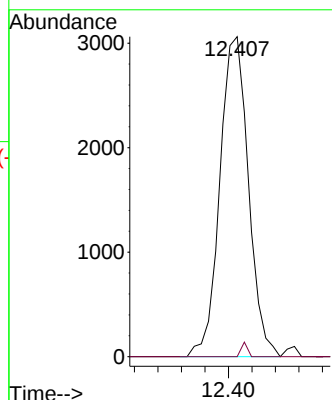
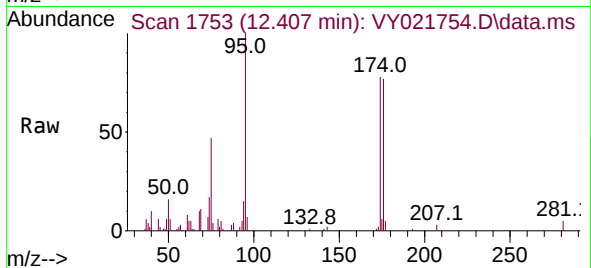
OR-02-040125

Tgt Ion: 75 Resp: 5177

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.668 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VY021754.D

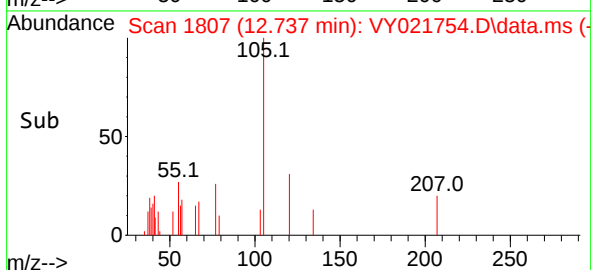
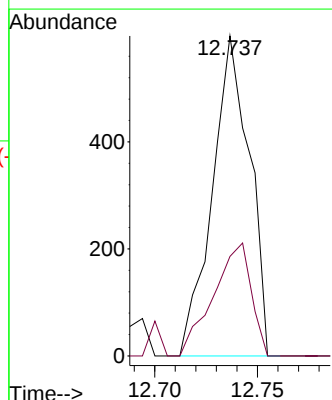
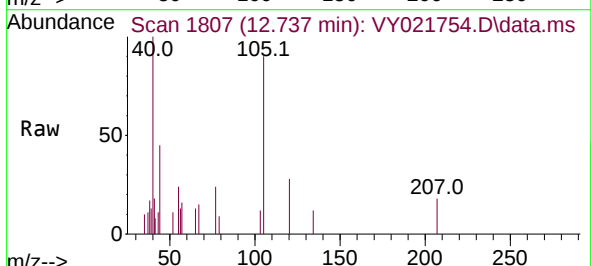
Acq: 02 Apr 2025 12:58

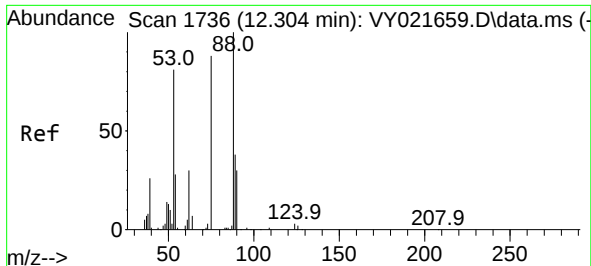
Tgt Ion: 105 Resp: 752

Ion Ratio Lower Upper

105 100

120 35.9 24.5 73.5

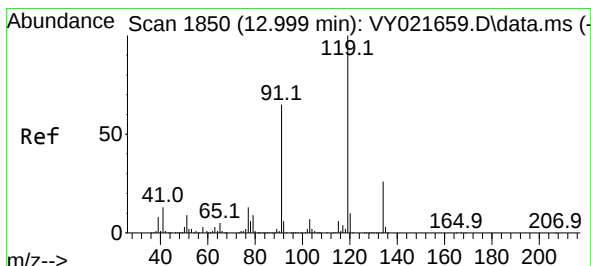
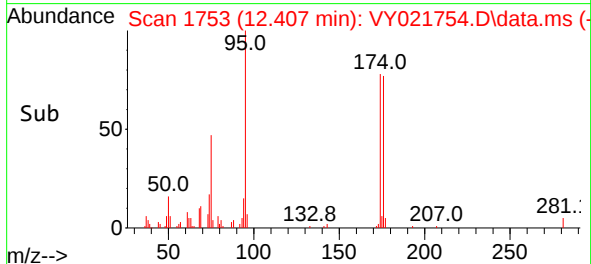
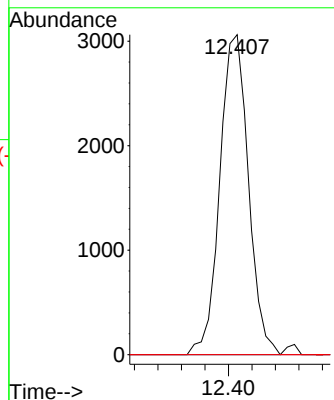
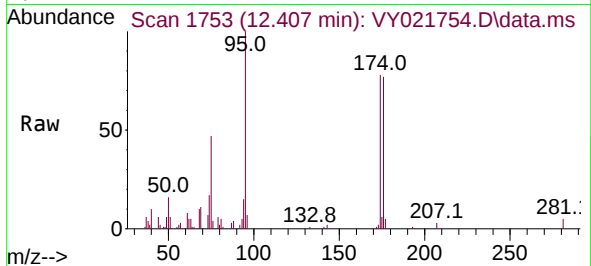




#81
trans-1,4-Dichloro-2-butene
Concen: 162.073 ug/l
RT: 12.407 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

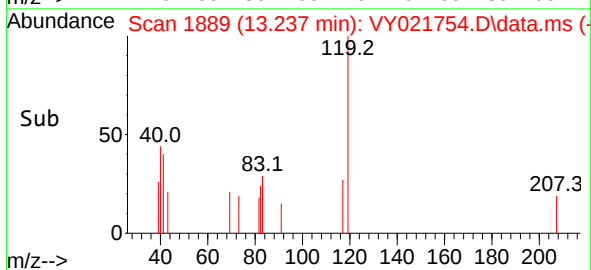
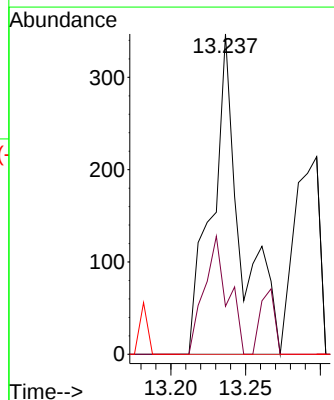
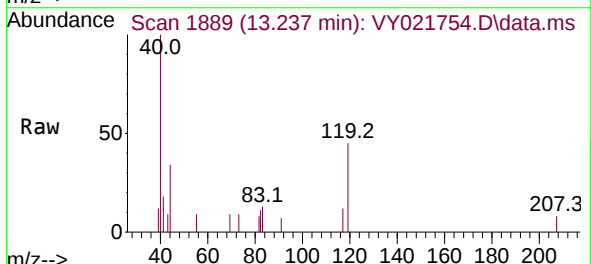
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-040125

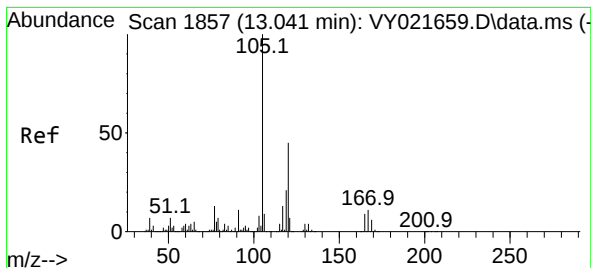
Tgt Ion: 75 Resp: 5177
Ion Ratio Lower Upper
75 100
53 0.0 76.1 114.1#
89 0.0 36.2 54.4#



#83
tert-Butylbenzene
Concen: 1.173 ug/l
RT: 13.237 min Scan# 1889
Delta R.T. 0.238 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

Tgt Ion: 119 Resp: 471
Ion Ratio Lower Upper
119 100
91 29.9 32.6 97.7#
134 0.0 13.2 39.6#





#84

1,2,4-Trimethylbenzene

Concen: 1.228 ug/l

RT: 12.895 min Scan# 11

Delta R.T. -0.146 min

Lab File: VY021754.D

Acq: 02 Apr 2025 12:58

Instrument :

MSVOA_Y

ClientSampleId :

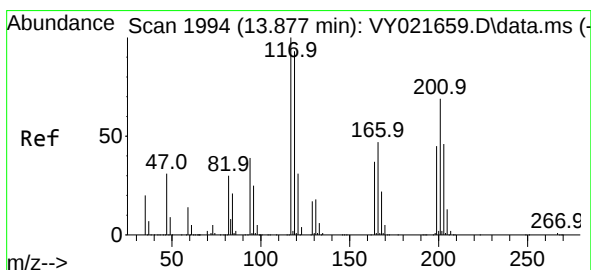
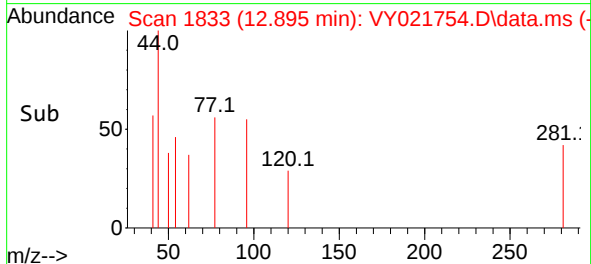
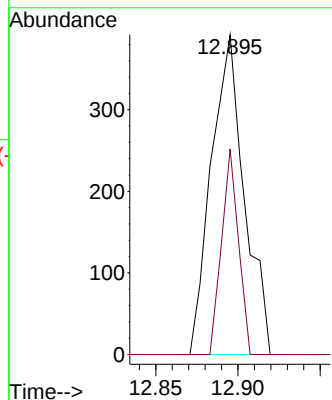
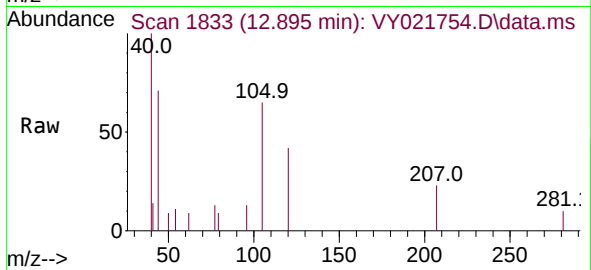
OR-02-040125

Tgt Ion:105 Resp: 547

Ion Ratio Lower Upper

105 100

120 32.7 22.7 68.1



#90

Hexachloroethane

Concen: 1.176 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.012 min

Lab File: VY021754.D

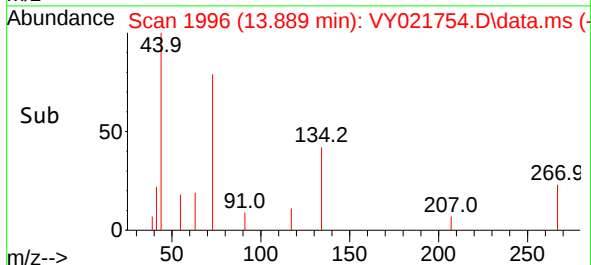
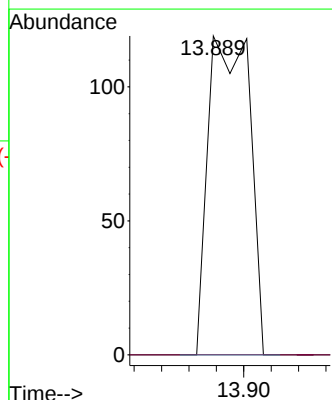
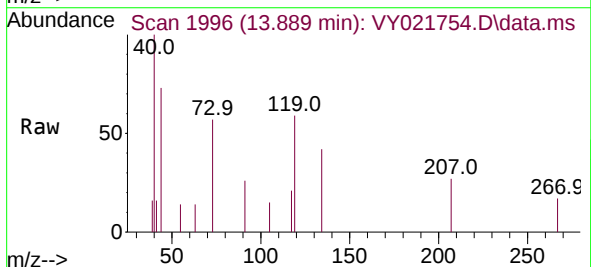
Acq: 02 Apr 2025 12:58

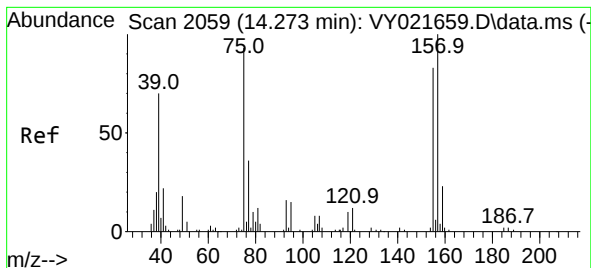
Tgt Ion:117 Resp: 125

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.1#

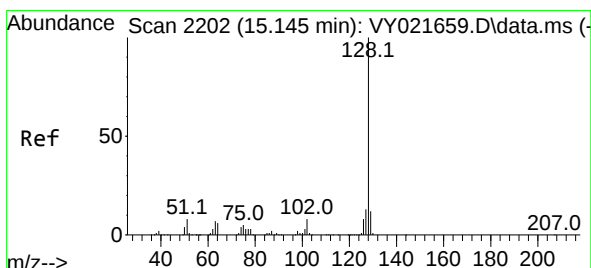
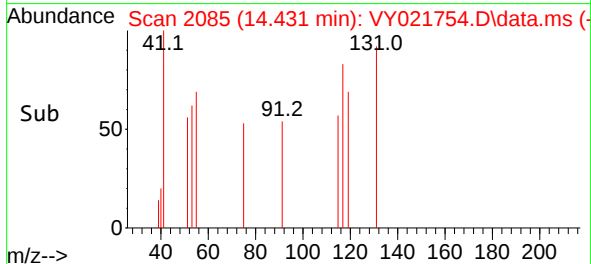
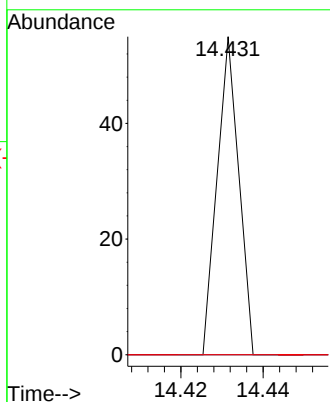
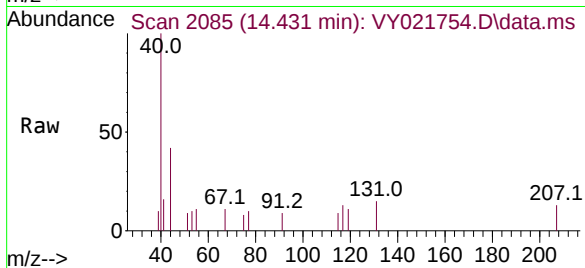




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.301 ug/l
RT: 14.431 min Scan# 2059
Delta R.T. 0.159 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

Instrument :
MSVOA_Y
ClientSampleId :
OR-02-040125

Tgt Ion: 75 Resp: 20
Ion Ratio Lower Upper
75 100
155 0.0 43.0 128.8#
157 0.0 54.0 162.0#



#95
Naphthalene
Concen: 1.293 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.006 min
Lab File: VY021754.D
Acq: 02 Apr 2025 12:58

Tgt Ion: 128 Resp: 264
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 0.0 8.8 13.2#

