

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062625\
 Data File : VY022846.D
 Acq On : 26 Jun 2025 13:43
 Operator : SY/MD
 Sample : Q2371-06
 Misc : 6.29g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GBUFF1

Quant Time: Jun 27 01:28:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

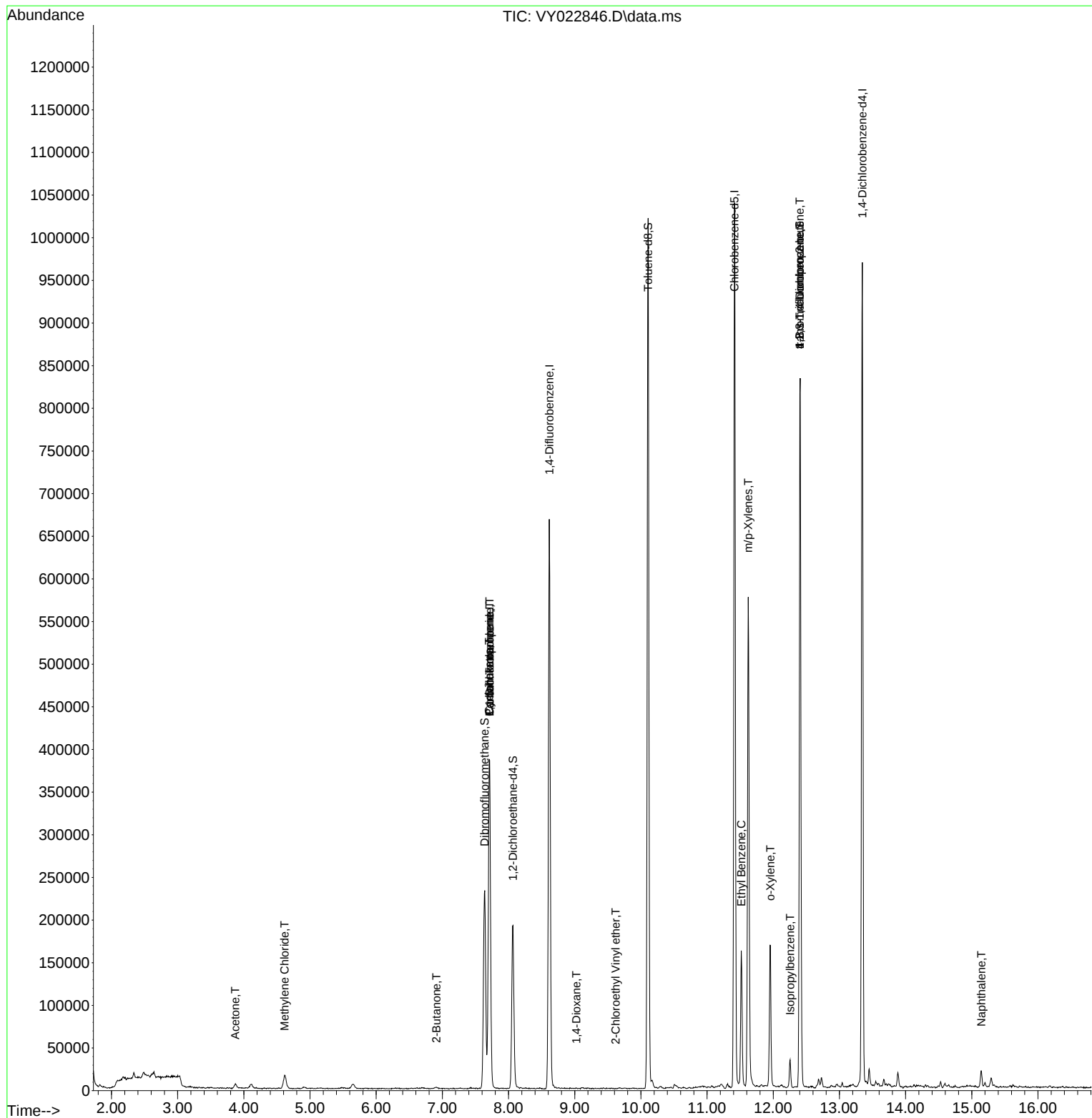
Internal Standards						
1) Pentafluorobenzene	7.713	168	299952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	553421	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	528624	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	237063	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	152936	45.683	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.360%
35) Dibromofluoromethane	7.640	113	166264	49.400	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.800%
50) Toluene-d8	10.109	98	659006	49.344	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.680%
62) 4-Bromofluorobenzene	12.402	95	234092	54.525	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	109.040%
Target Compounds						
					Qvalue	
16) Acetone	3.873	43	8951	14.146	ug/l	99
20) Methylene Chloride	4.616	84	10887	2.724	ug/l #	89
25) 2-Butanone	6.909	43	1403	1.523	ug/l #	78
31) Cyclohexane	7.707	56	7081	1.231	ug/l #	14
36) 1,1-Dichloropropene	7.713	75	25579	5.014	ug/l #	51
38) Carbon Tetrachloride	7.713	117	30825	5.727	ug/l #	16
49) 1,4-Dioxane	9.024	88	65	2.640	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.622	63	22	15.666	ug/l #	48
67) Ethyl Benzene	11.518	91	105490	5.169	ug/l	98
68) m/p-Xylenes	11.621	106	162120	20.550	ug/l	98
69) o-Xylene	11.956	106	42090	5.662	ug/l	93
73) Isopropylbenzene	12.255	105	18605	1.061	ug/l	99
76) 1,2,3-Trichloropropane	12.402	75	131710	54.421	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	131710	137.488	ug/l #	10
95) Naphthalene	15.145	128	15371	2.140	ug/l	98

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

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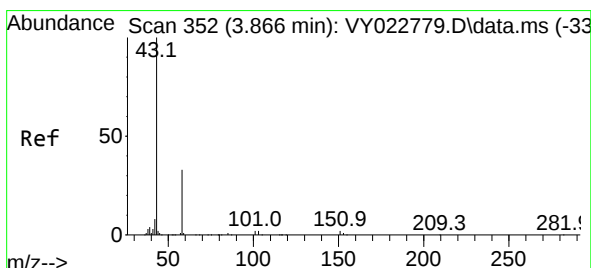
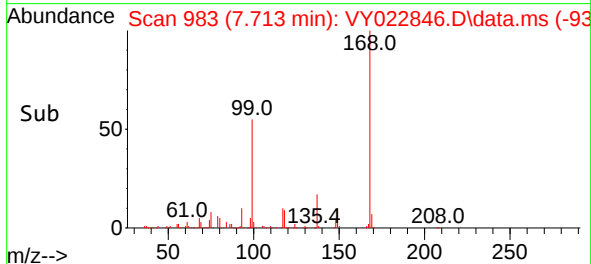
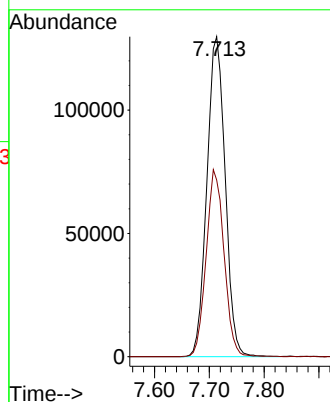
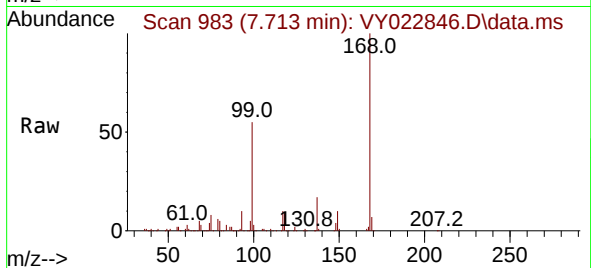




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

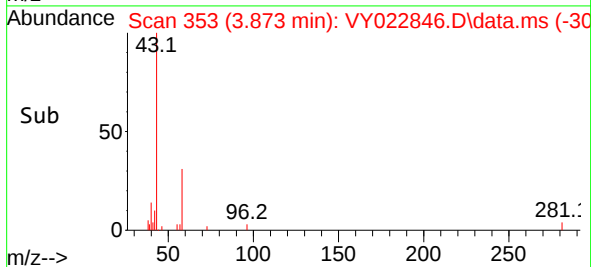
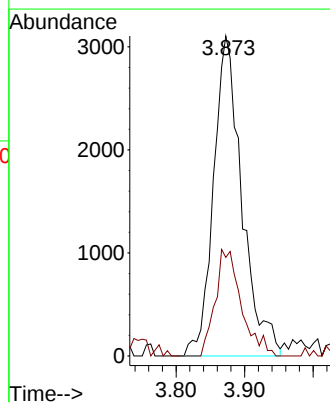
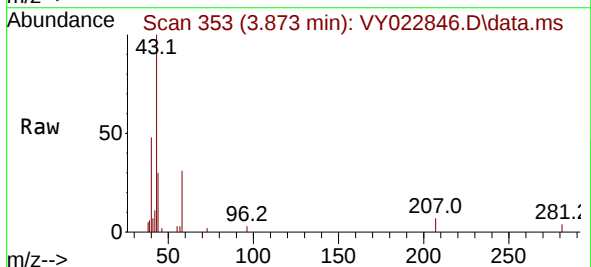
Instrument :
MSVOA_Y
ClientSampleId :
GBUFF1

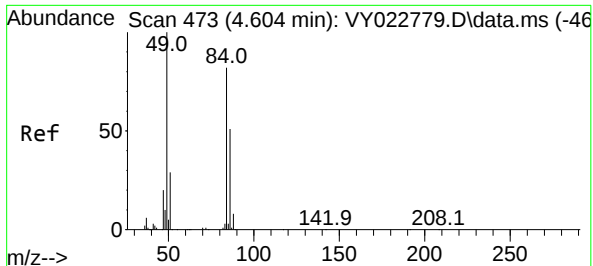
Tgt Ion:168 Resp: 299952
Ion Ratio Lower Upper
168 100
99 55.2 44.3 66.5



#16
Acetone
Concen: 14.146 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

Tgt Ion: 43 Resp: 8951
Ion Ratio Lower Upper
43 100
58 30.8 24.0 36.0





#20

Methylene Chloride

Concen: 2.724 ug/l

RT: 4.616 min Scan# 41

Delta R.T. -0.006 min

Lab File: VY022846.D

Acq: 26 Jun 2025 13:43

Instrument :

MSVOA_Y

ClientSampleId :

GBUFF1

Tgt Ion: 84 Resp: 10887

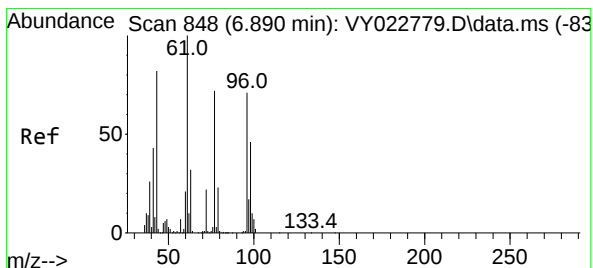
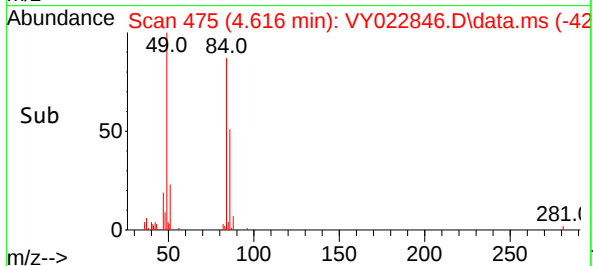
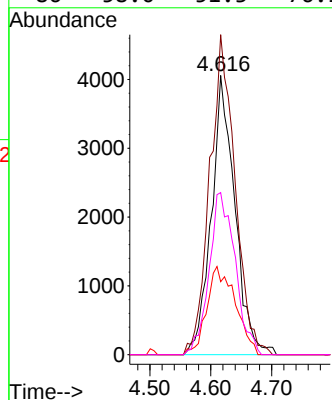
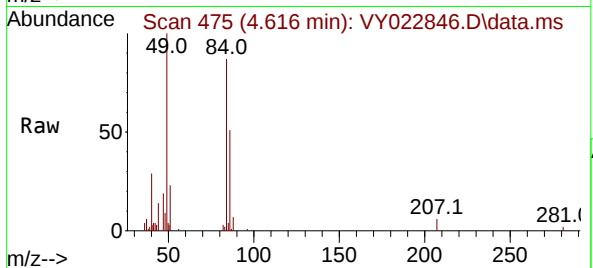
Ion Ratio Lower Upper

84 100

49 114.6 101.9 152.9

51 26.1 29.8 44.8#

86 58.0 51.3 76.9



#25

2-Butanone

Concen: 1.523 ug/l

RT: 6.909 min Scan# 851

Delta R.T. 0.006 min

Lab File: VY022846.D

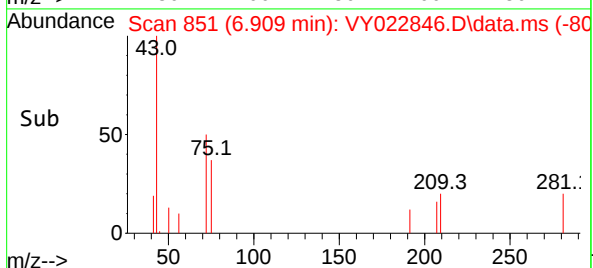
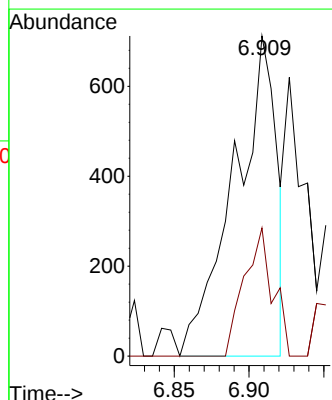
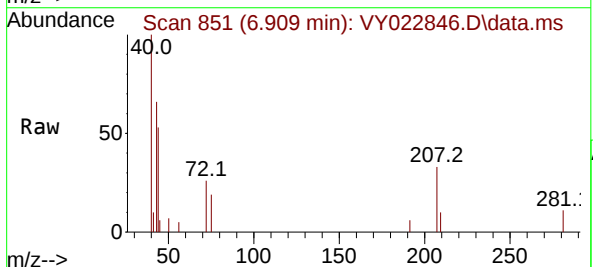
Acq: 26 Jun 2025 13:43

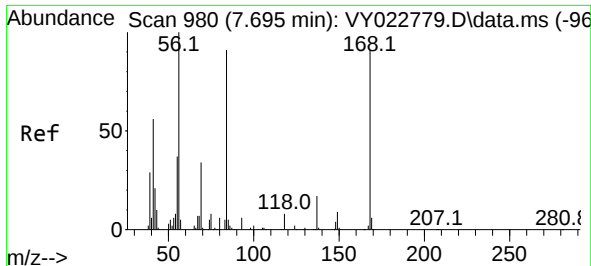
Tgt Ion: 43 Resp: 1403

Ion Ratio Lower Upper

43 100

72 40.0 22.9 34.3#

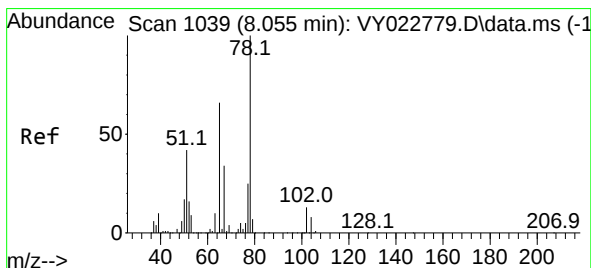
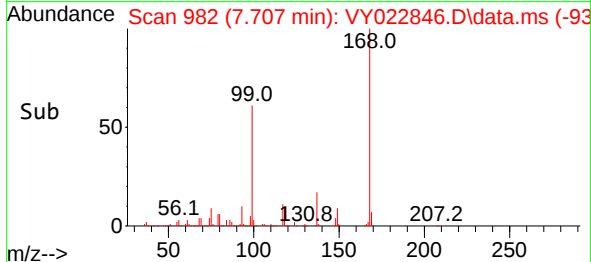
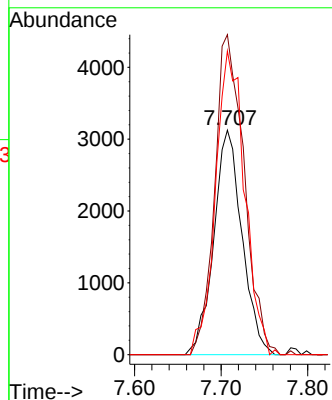
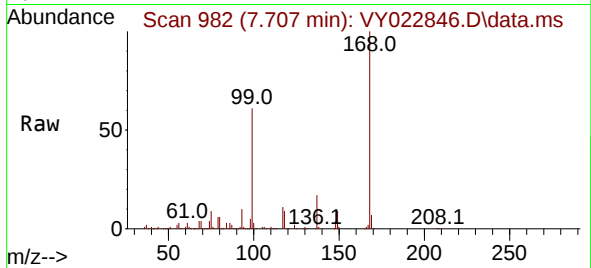




#31
Cyclohexane
Concen: 1.231 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

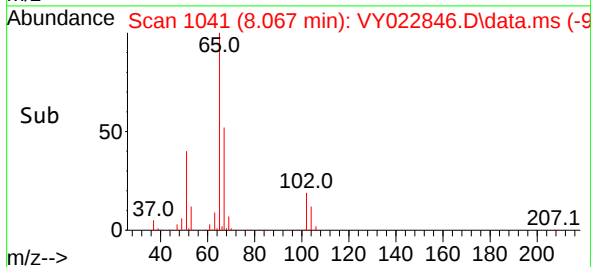
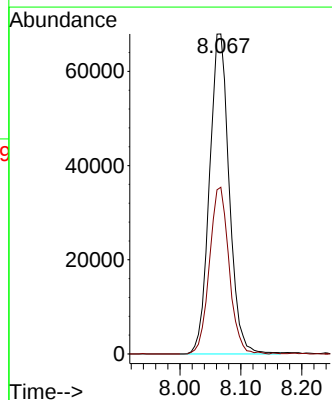
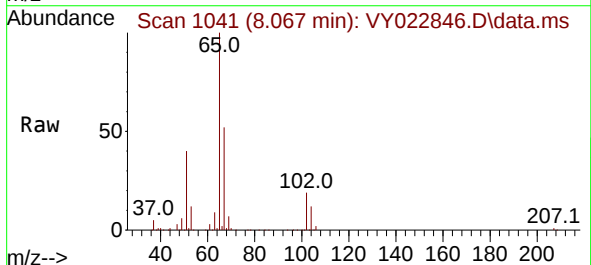
Instrument :
MSVOA_Y
ClientSampleId :
GBUFF1

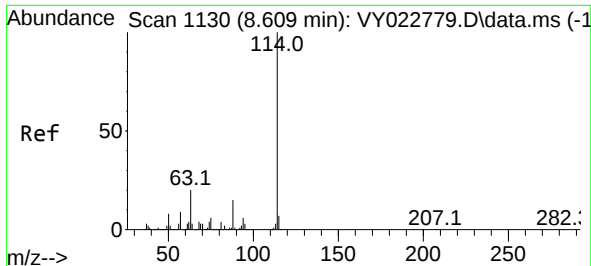
Tgt Ion: 56 Resp: 7081
Ion Ratio Lower Upper
56 100
69 142.5 27.0 40.6#
84 135.3 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 45.683 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

Tgt Ion: 65 Resp: 152936
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022846.D

Acq: 26 Jun 2025 13:43

Instrument :

MSVOA_Y

ClientSampleId :

GBUFF1

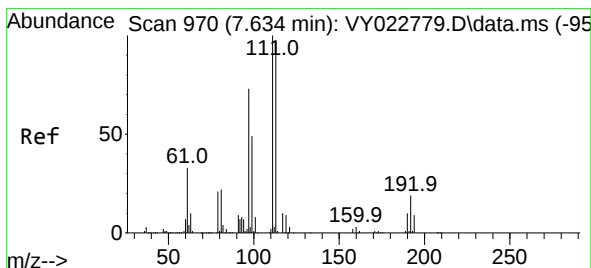
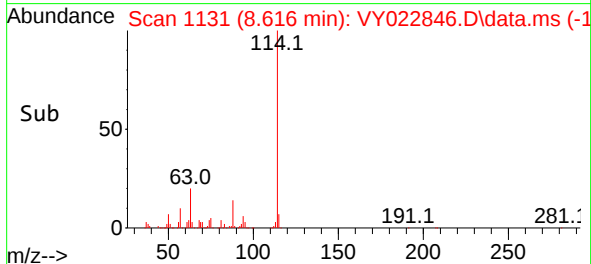
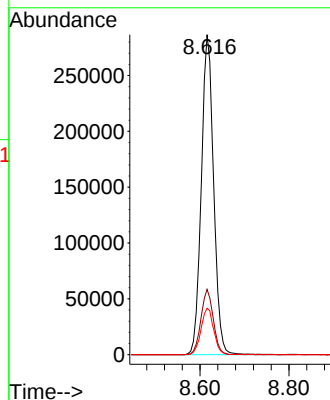
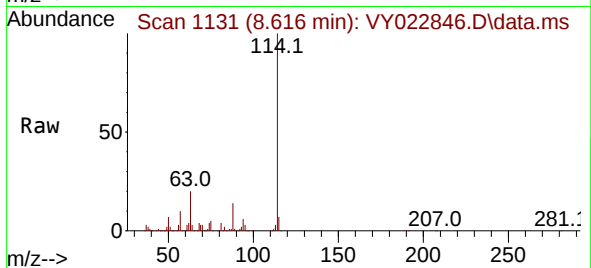
Tgt Ion:114 Resp: 553421

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

88 14.5 0.0 27.8



#35

Dibromofluoromethane

Concen: 49.400 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY022846.D

Acq: 26 Jun 2025 13:43

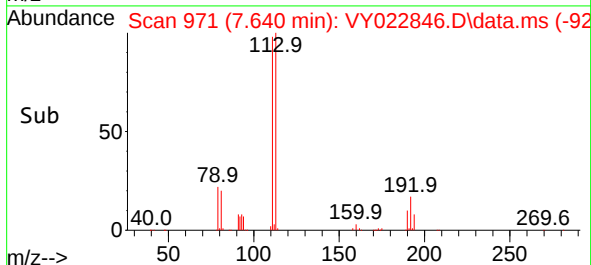
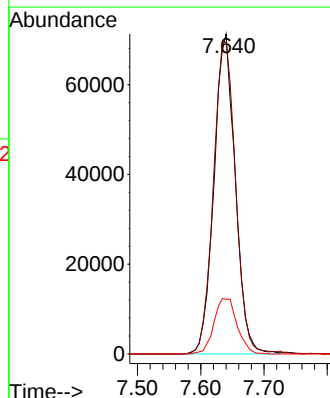
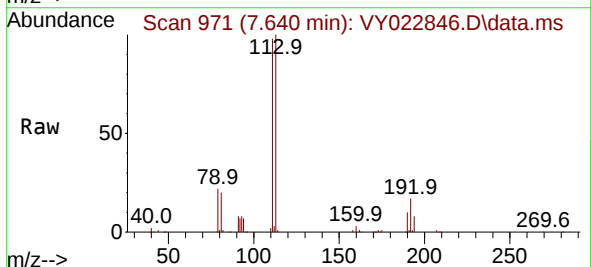
Tgt Ion:113 Resp: 166264

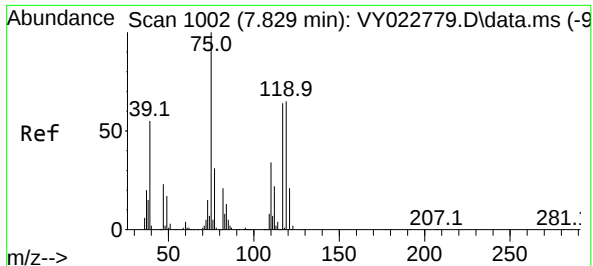
Ion Ratio Lower Upper

113 100

111 102.3 81.1 121.7

192 18.9 14.2 21.2





#36

1,1-Dichloropropene

Concen: 5.014 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.128 min

Lab File: VY022846.D

Acq: 26 Jun 2025 13:43

Instrument :

MSVOA_Y

ClientSampleId :

GBUFF1

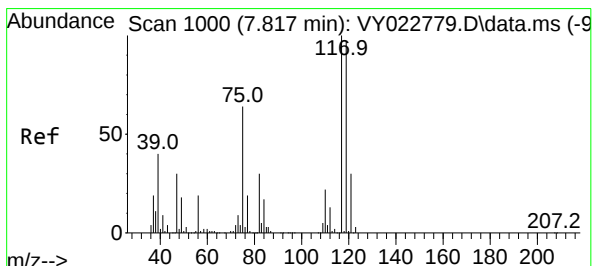
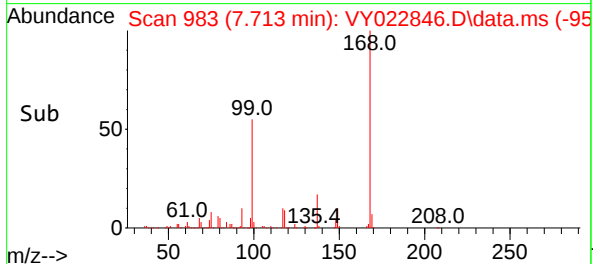
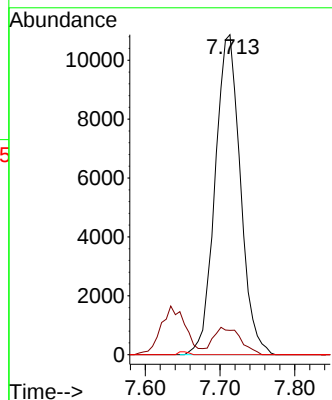
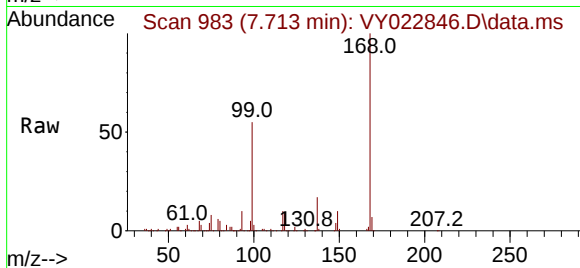
Tgt Ion: 75 Resp: 25579

Ion Ratio Lower Upper

75 100

110 9.2 16.9 50.7#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.727 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.110 min

Lab File: VY022846.D

Acq: 26 Jun 2025 13:43

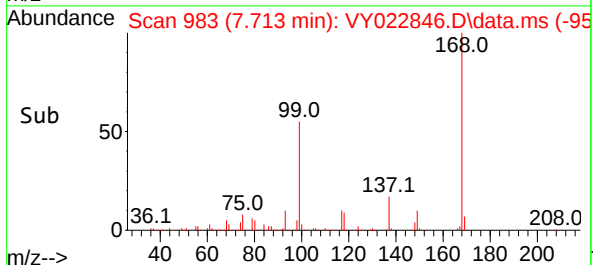
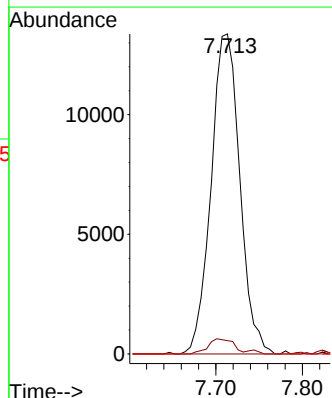
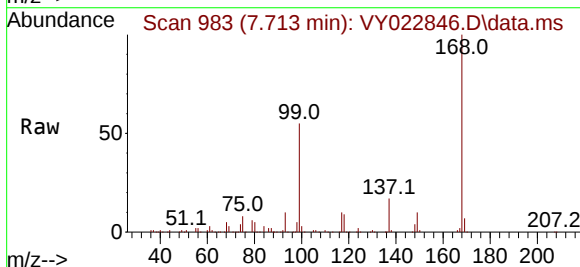
Tgt Ion: 117 Resp: 30825

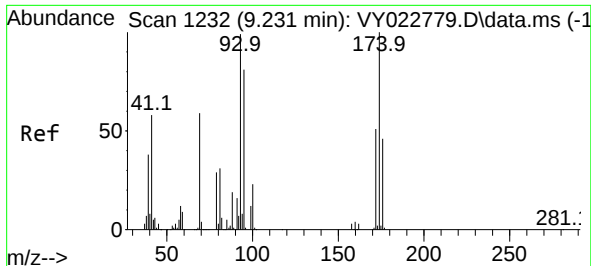
Ion Ratio Lower Upper

117 100

119 4.1 75.0 112.6#

121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 2.640 ug/l

RT: 9.024 min Scan# 1198

Delta R.T. -0.220 min

Lab File: VY022846.D

Acq: 26 Jun 2025 13:43

Instrument :

MSVOA_Y

ClientSampleId :

GBUFF1

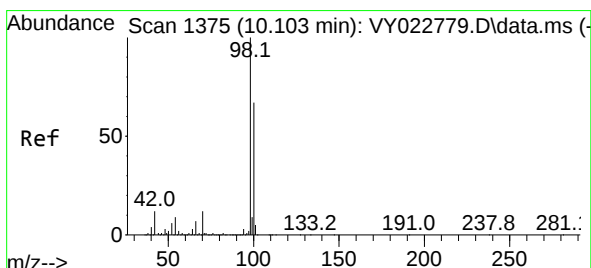
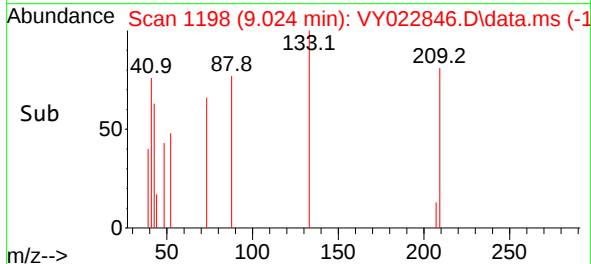
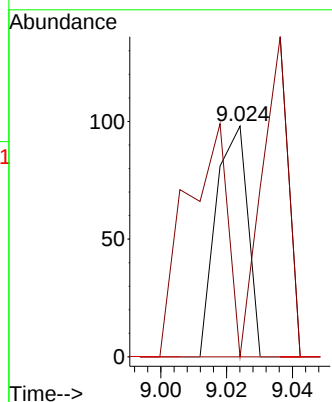
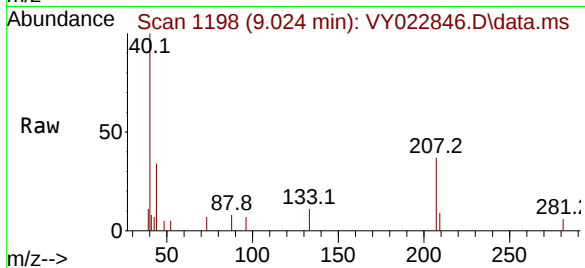
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 132.3 25.4 38.2#

58 0.0 54.9 82.3#



#50

Toluene-d8

Concen: 49.344 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY022846.D

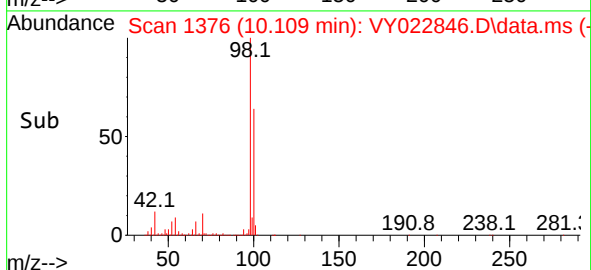
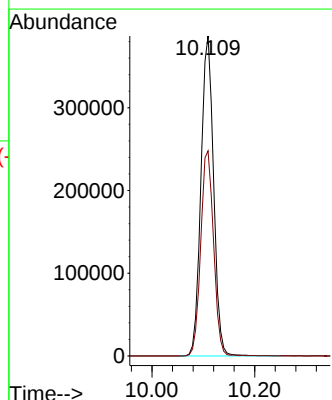
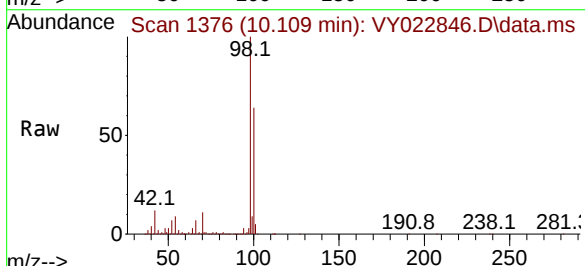
Acq: 26 Jun 2025 13:43

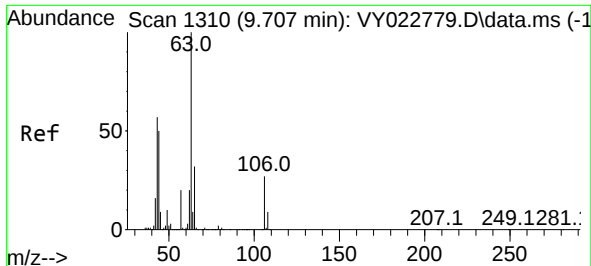
Tgt Ion: 98 Resp: 659006

Ion Ratio Lower Upper

98 100

100 65.1 51.4 77.0

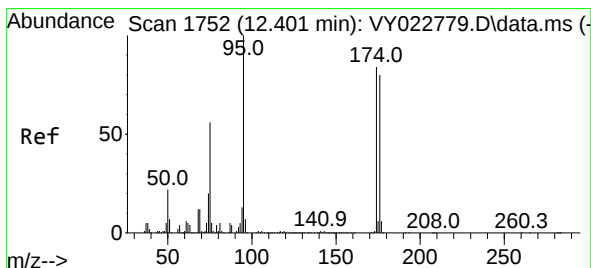
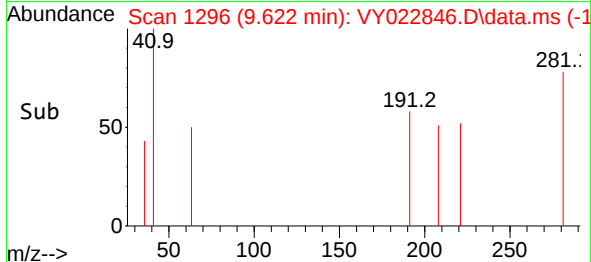
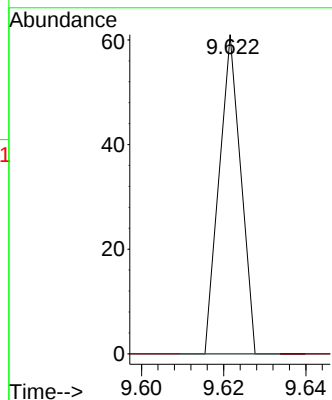
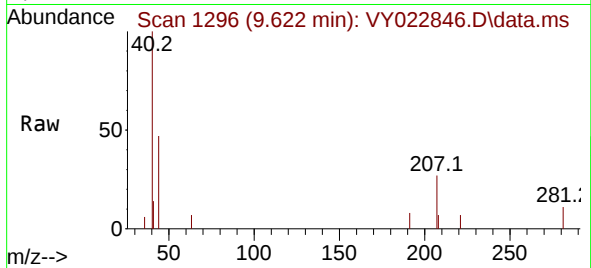




#58
2-Chloroethyl Vinyl ether
Concen: 15.666 ug/l
RT: 9.622 min Scan# 11
Delta R.T. -0.091 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

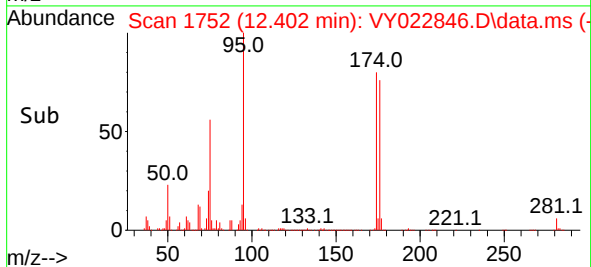
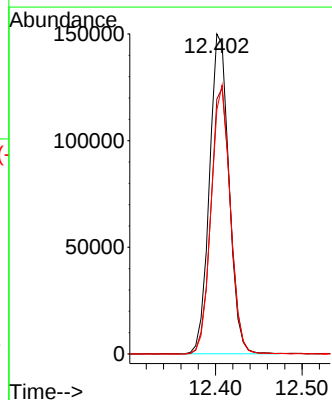
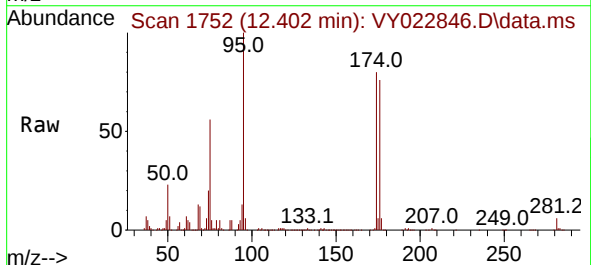
Instrument :
MSVOA_Y
ClientSampleId :
GBUFF1

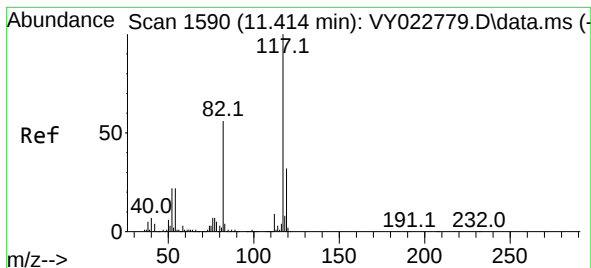
Tgt Ion: 63 Resp: 22
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#62
4-Bromofluorobenzene
Concen: 54.525 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

Tgt Ion: 95 Resp: 234092
Ion Ratio Lower Upper
95 100
174 83.5 0.0 170.0
176 82.5 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022846.D

Acq: 26 Jun 2025 13:43

Instrument :

MSVOA_Y

ClientSampleId :

GBUFF1

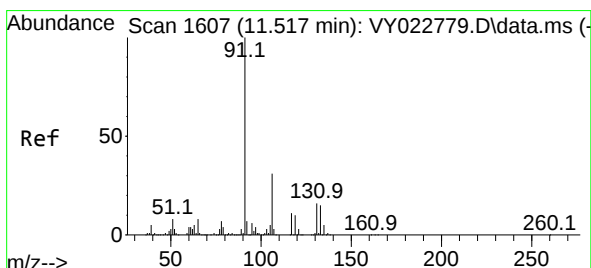
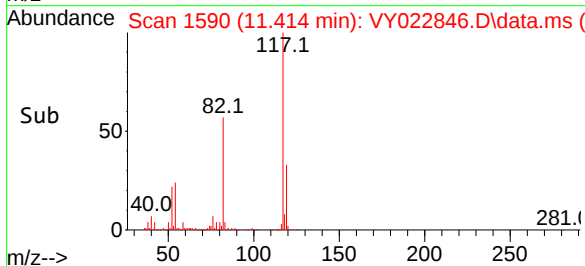
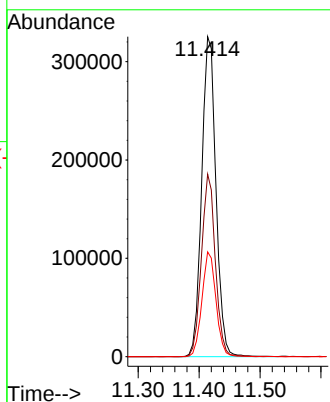
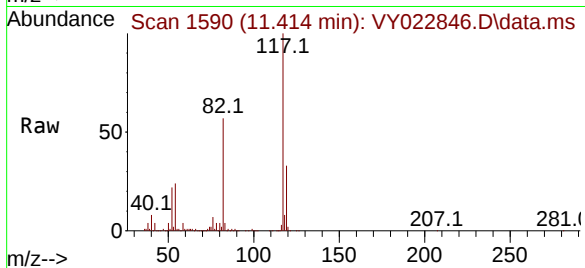
Tgt Ion:117 Resp: 528624

Ion Ratio Lower Upper

117 100

82 57.0 44.6 66.8

119 32.8 25.4 38.0



#67

Ethyl Benzene

Concen: 5.169 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. -0.000 min

Lab File: VY022846.D

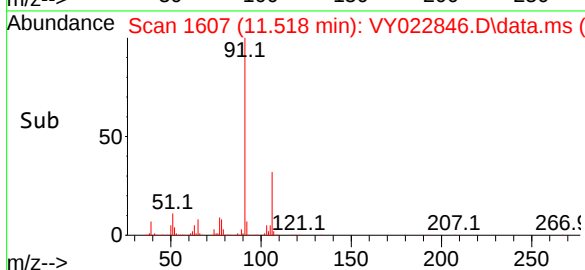
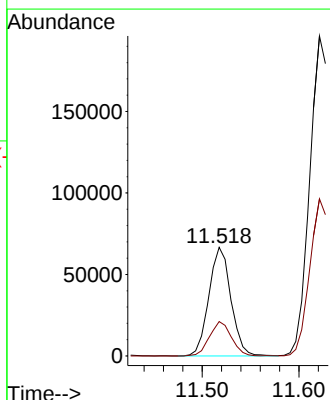
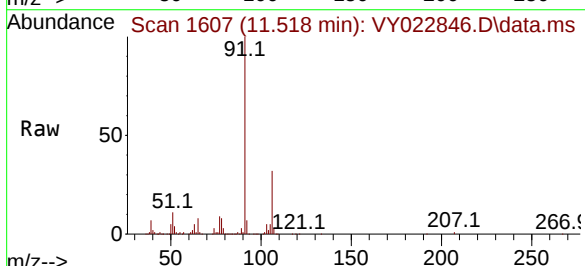
Acq: 26 Jun 2025 13:43

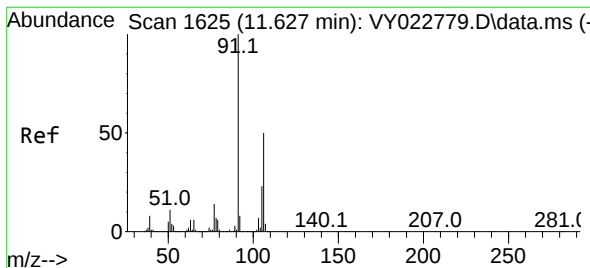
Tgt Ion: 91 Resp: 105490

Ion Ratio Lower Upper

91 100

106 31.6 24.2 36.4

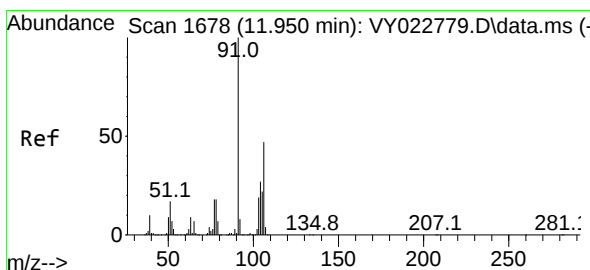
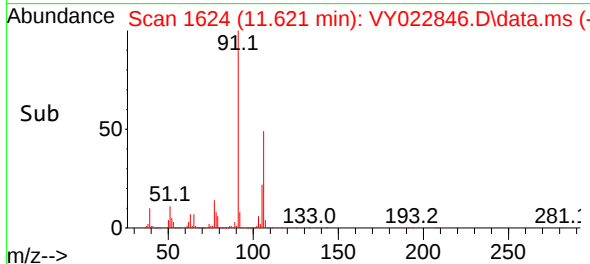
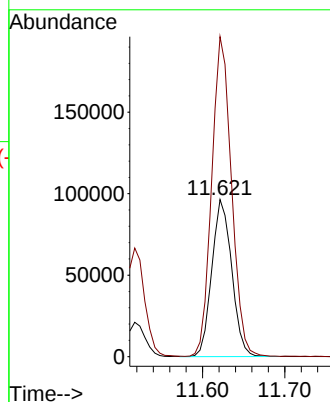
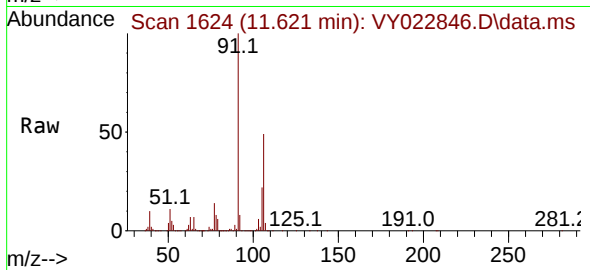




#68
m/p-Xylenes
Concen: 20.550 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

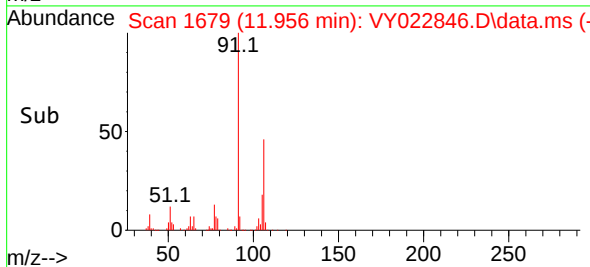
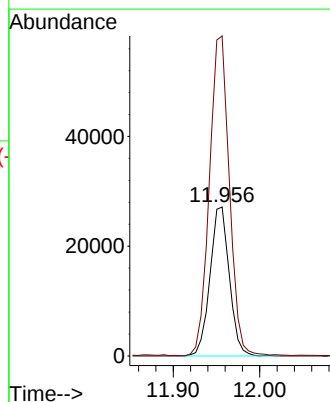
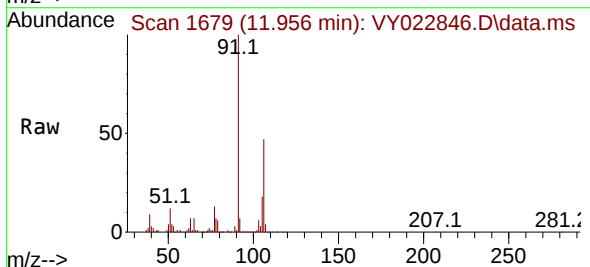
Instrument :
MSVOA_Y
ClientSampleId :
GBUFF1

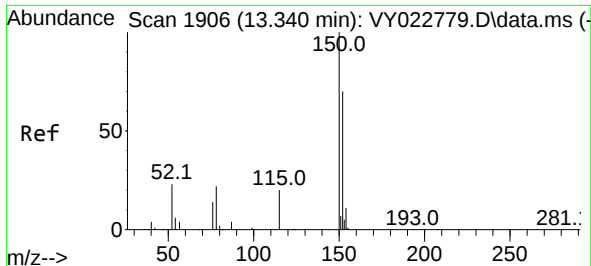
Tgt Ion:106 Resp: 162120
Ion Ratio Lower Upper
106 100
91 202.7 159.4 239.0



#69
o-Xylene
Concen: 5.662 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. -0.000 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

Tgt Ion:106 Resp: 42090
Ion Ratio Lower Upper
106 100
91 221.7 105.8 317.3

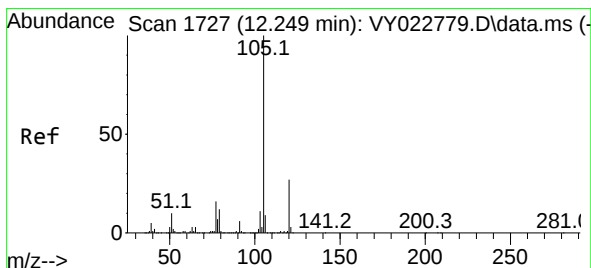
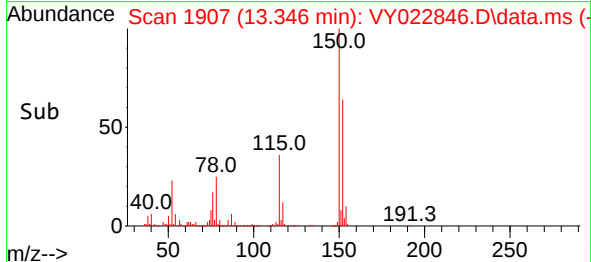
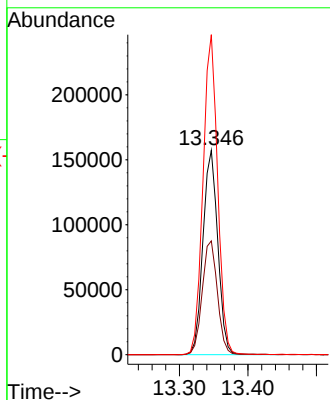
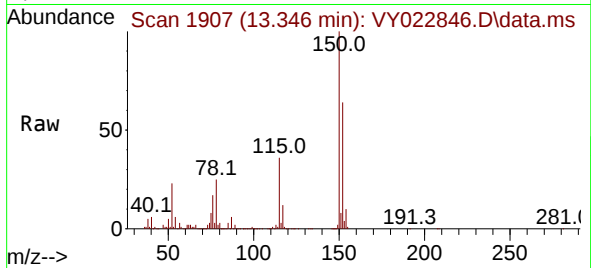




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

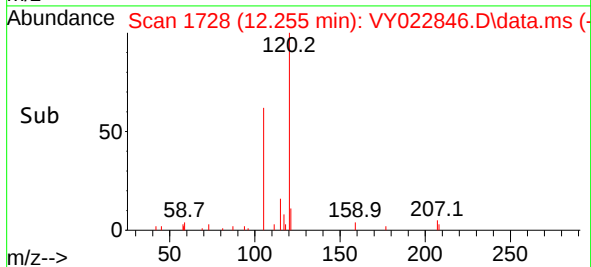
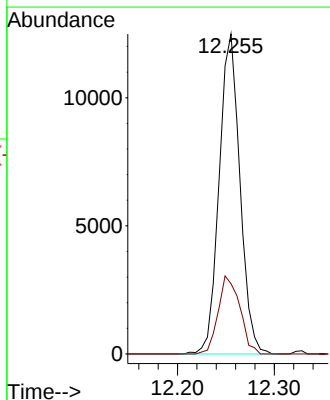
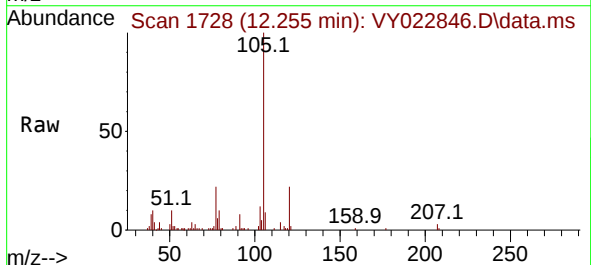
Instrument :
MSVOA_Y
ClientSampleId :
GBUFF1

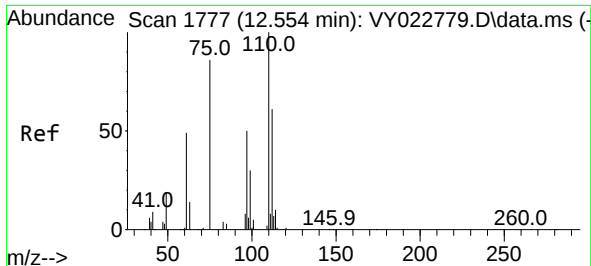
Tgt Ion:152 Resp: 237063
Ion Ratio Lower Upper
152 100
115 57.1 28.9 86.7
150 154.4 0.0 349.6



#73
Isopropylbenzene
Concen: 1.061 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. -0.000 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

Tgt Ion:105 Resp: 18605
Ion Ratio Lower Upper
105 100
120 25.3 13.0 38.9

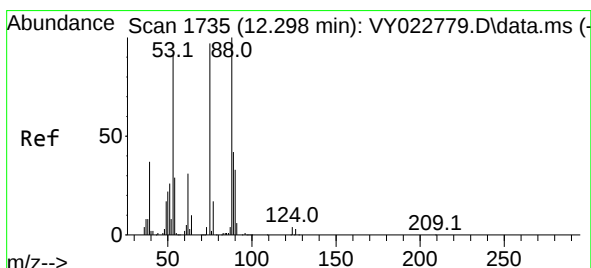
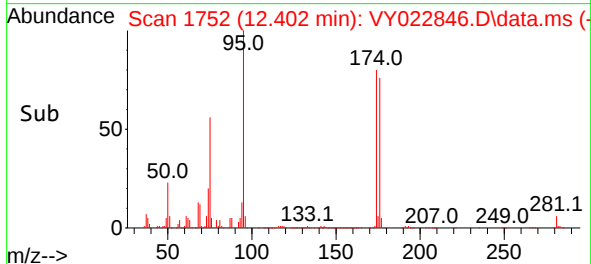
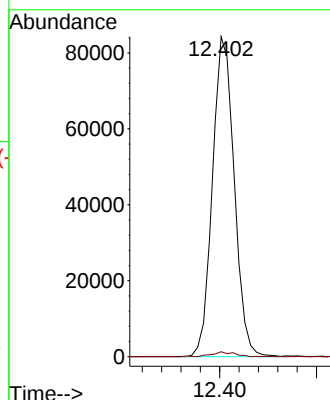
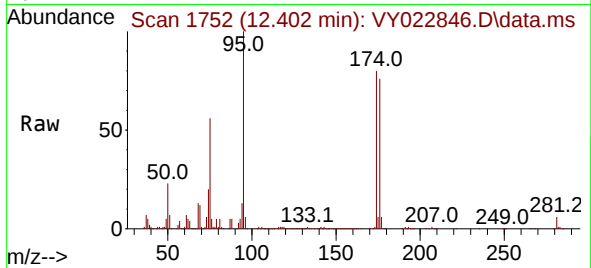




#76
1,2,3-Trichloropropane
Concen: 54.421 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.153 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

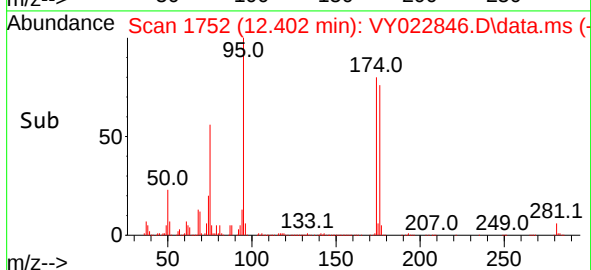
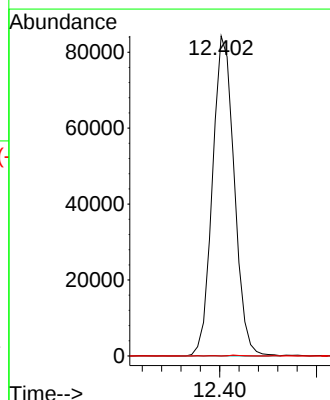
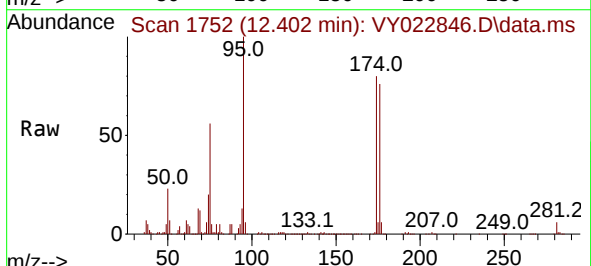
Instrument :
MSVOA_Y
ClientSampleId :
GBUFF1

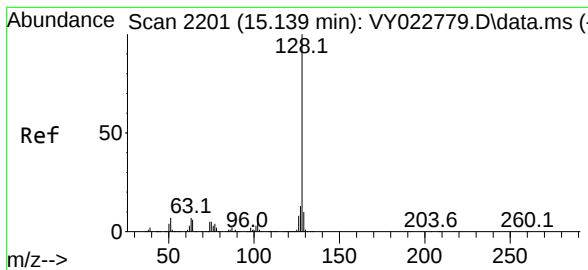
Tgt Ion: 75 Resp: 131710
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 137.488 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.097 min
Lab File: VY022846.D
Acq: 26 Jun 2025 13:43

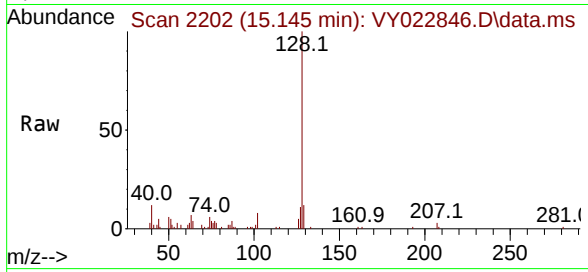
Tgt Ion: 75 Resp: 131710
Ion Ratio Lower Upper
75 100
53 0.1 78.5 117.7#
89 0.0 35.7 53.5#





#95
 Naphthalene
 Concen: 2.140 ug/l
 RT: 15.145 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY022846.D
 Acq: 26 Jun 2025 13:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 GBUFF1



Tgt Ion:128 Resp: 15371

Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.4	15.6
129	12.1	8.9	13.3

