

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062025\
 Data File : VY022765.D
 Acq On : 20 Jun 2025 15:55
 Operator : SY/MD
 Sample : Q2384-01
 Misc : 5.27g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

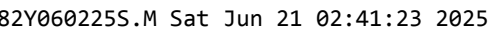
Quant Time: Jun 21 02:41:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	29009	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	46696	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	34930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	13397	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	12851	39.609	ug/l	0.00
Spiked Amount 50.000	Range	50 - 163	Recovery	=	79.220%	
35) Dibromofluoromethane	7.634	113	13780	49.440	ug/l	0.00
Spiked Amount 50.000	Range	54 - 147	Recovery	=	98.880%	
50) Toluene-d8	10.109	98	55596	49.366	ug/l	0.00
Spiked Amount 50.000	Range	58 - 134	Recovery	=	98.740%	
62) 4-Bromofluorobenzene	12.408	95	12571	37.464	ug/l	0.00
Spiked Amount 50.000	Range	30 - 143	Recovery	=	74.920%	
Target Compounds						Qvalue
5) Bromomethane	2.617	94	1143	1.340	ug/l	87
16) Acetone	3.854	43	339	5.145	ug/l	# 45
20) Methylene Chloride	4.622	84	381	1.018	ug/l	# 83
31) Cyclohexane	7.707	56	1000	1.604	ug/l	# 53
36) 1,1-Dichloropropene	7.713	75	2643	5.843	ug/l	# 55
38) Carbon Tetrachloride	7.701	117	3031	6.532	ug/l	# 18
48) Methyl methacrylate	9.225	41	209	1.022	ug/l	# 30
49) 1,4-Dioxane	9.292	88	22	10.454	ug/l	# 1
55) 1,1,2-Trichloroethane	10.560	97	238	1.051	ug/l	# 16
66) 1,1,1,2-Tetrachloroethane	11.499	131	488	1.874	ug/l	# 59
73) Isopropylbenzene	12.261	105	1113	1.012	ug/l	82
74) N-amyl acetate	12.072	43	299	1.077	ug/l	# 43
75) 1,1,2,2-Tetrachloroethane	12.517	83	318	1.762	ug/l	# 62
76) 1,2,3-Trichloropropane	12.536	75	1531	9.989	ug/l	# 100
77) Bromobenzene	12.554	156	75181	323.911	ug/l	# 1
78) n-propylbenzene	12.517	91	1607	1.196	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.408	75	7672	120.884	ug/l	# 12
90) Hexachloroethane	13.865	117	236	1.239	ug/l	# 16
91) 1,2-Dichlorobenzene	13.852	146	464	1.162	ug/l	75
92) 1,2-Dibromo-3-Chloropr...	14.206	75	192	7.305	ug/l	83
95) Naphthalene	15.188	128	2737	6.550	ug/l	# 1

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

Quant Time: Jun 21 02:41:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
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QLast Update : Tue Jun 10 15:26:14 2025
Response via : Initial Calibration

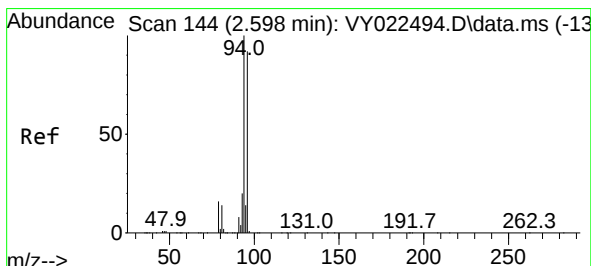
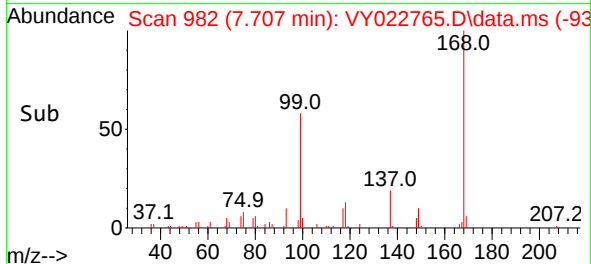
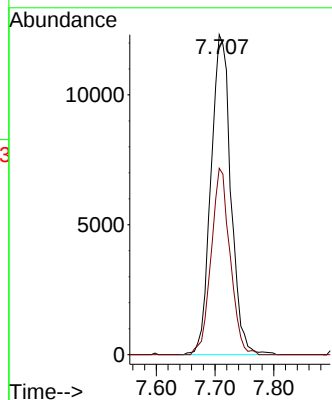
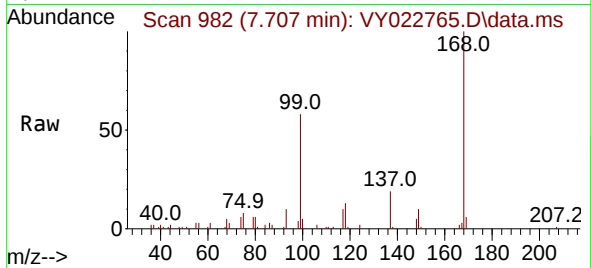




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

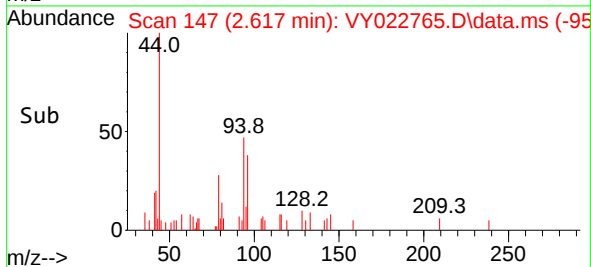
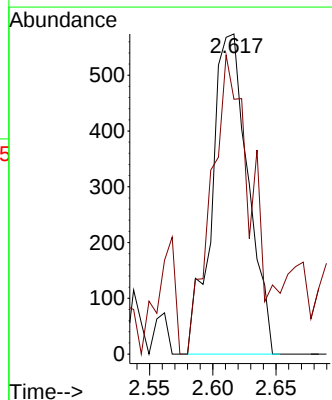
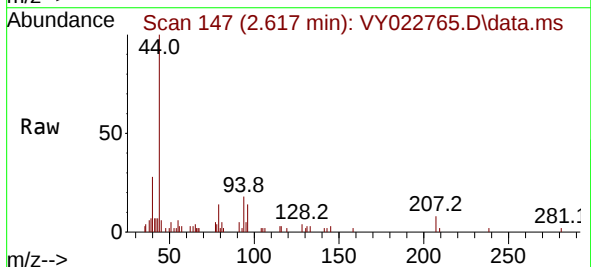
Instrument :
MSVOA_Y
ClientSampleId :

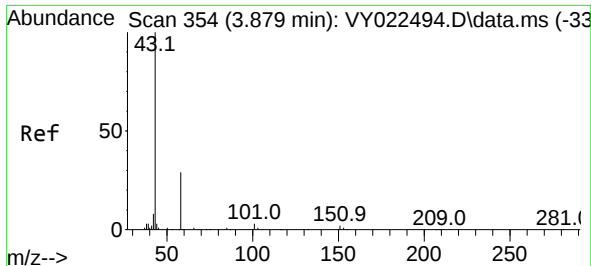
Tgt Ion:168 Resp: 29009
Ion Ratio Lower Upper
168 100
99 58.3 44.3 66.5



#5
Bromomethane
Concen: 1.340 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.018 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

Tgt Ion: 94 Resp: 1143
Ion Ratio Lower Upper
94 100
96 79.6 74.0 111.0

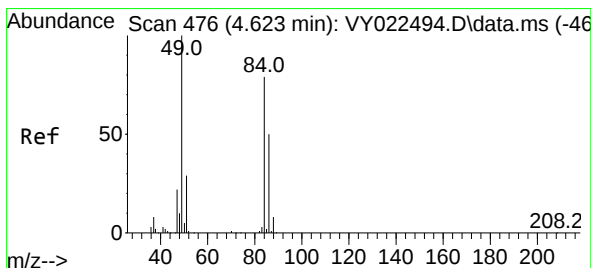
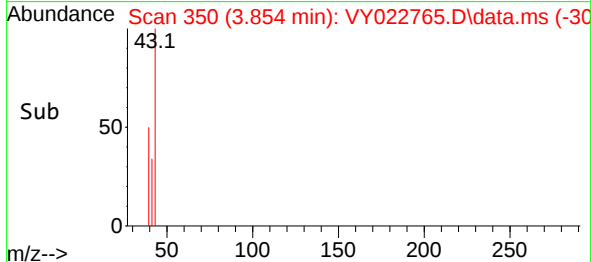
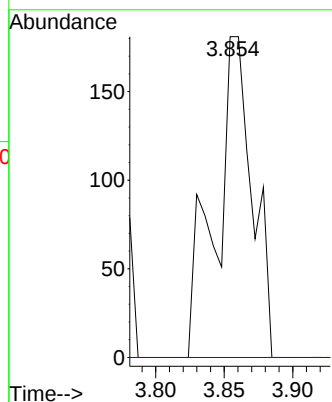
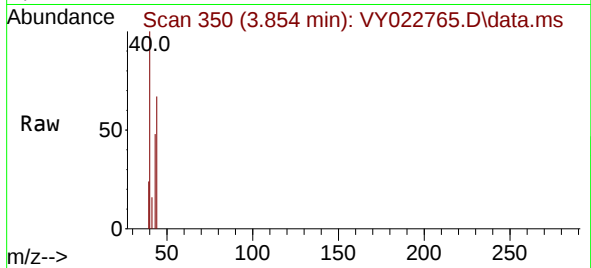




#16
Acetone
Concen: 5.145 ug/l
RT: 3.854 min Scan# 31
Delta R.T. -0.025 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

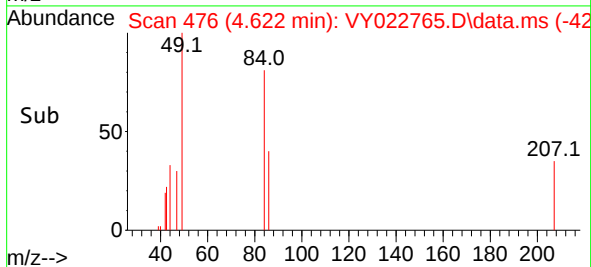
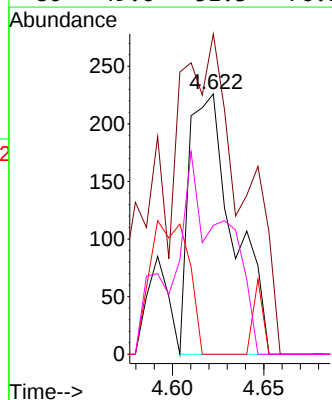
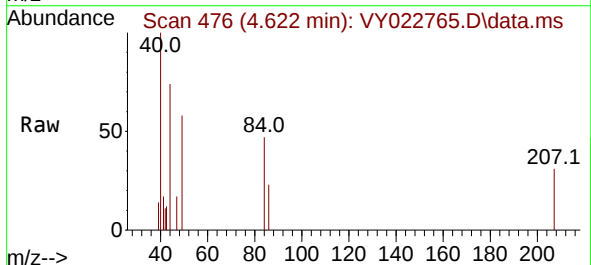
Instrument :
MSVOA_Y
ClientSampleId :

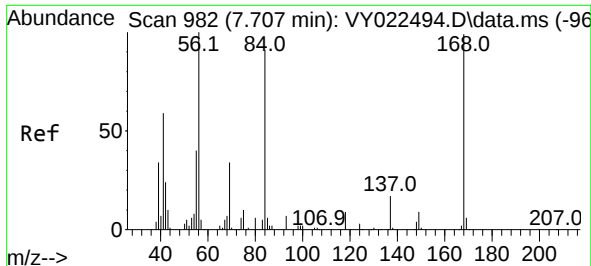
Tgt Ion: 43 Resp: 339
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#



#20
Methylene Chloride
Concen: 1.018 ug/l
RT: 4.622 min Scan# 476
Delta R.T. -0.000 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

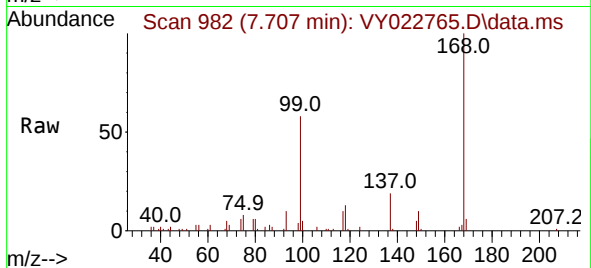
Tgt Ion: 84 Resp: 381
Ion Ratio Lower Upper
84 100
49 123.0 101.9 152.9
51 0.0 29.8 44.8#
86 49.6 51.3 76.9#



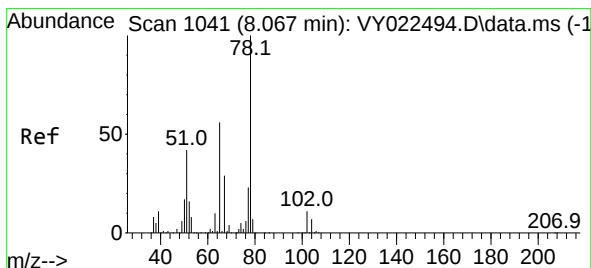
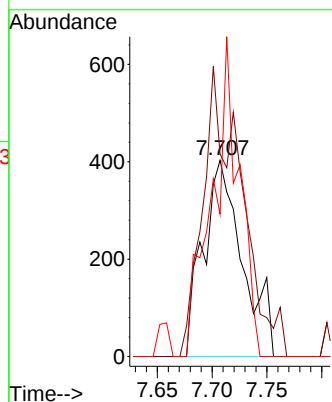
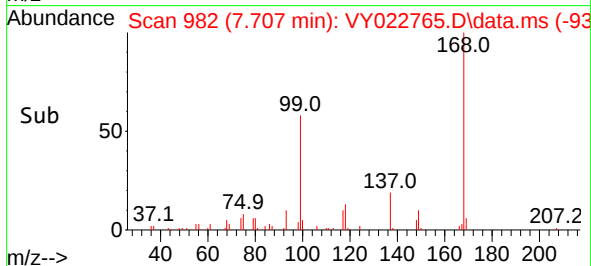


#31
Cyclohexane
Concen: 1.604 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

Instrument :
MSVOA_Y
ClientSampleId :

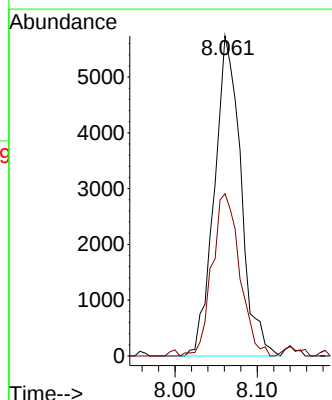
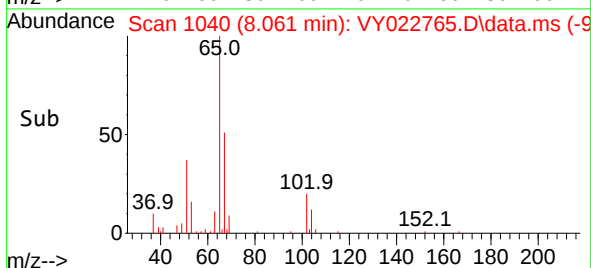
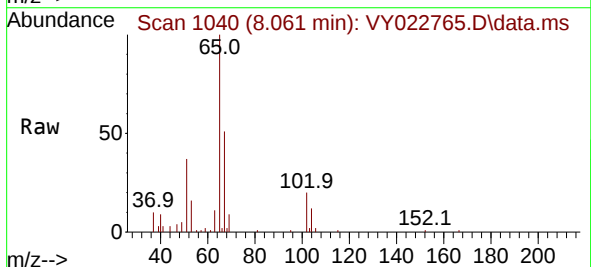


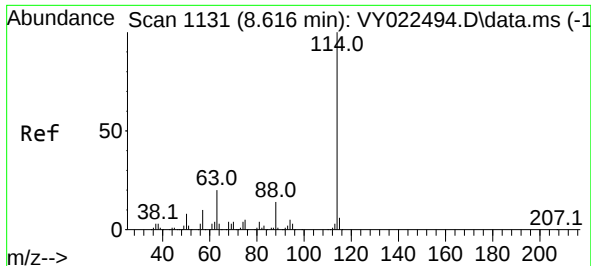
Tgt Ion: 56 Resp: 1000
Ion Ratio Lower Upper
56 100
69 103.2 27.0 40.6#
84 72.7 72.6 109.0



#33
1,2-Dichloroethane-d4
Concen: 39.609 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

Tgt Ion: 65 Resp: 12851
Ion Ratio Lower Upper
65 100
67 52.6 0.0 103.4

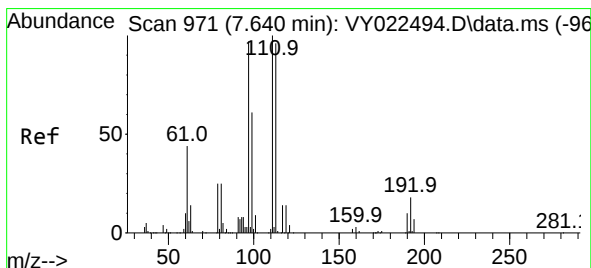
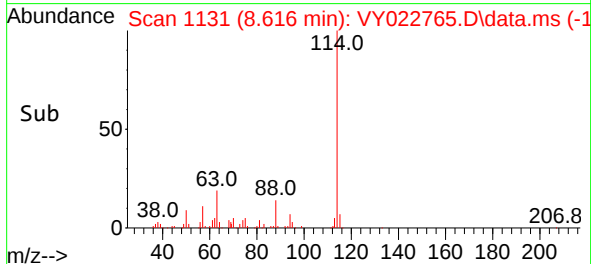
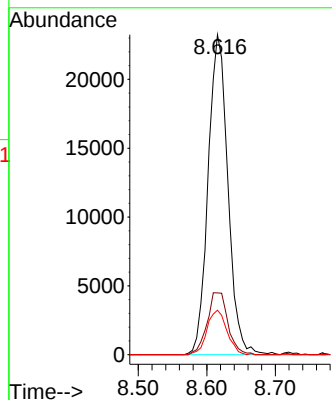
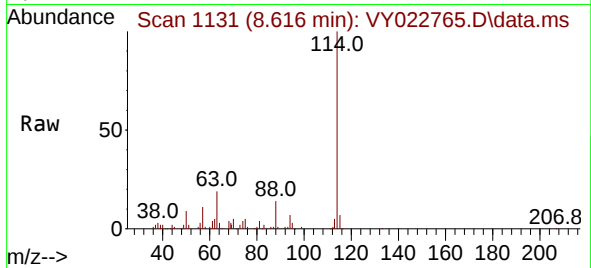




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

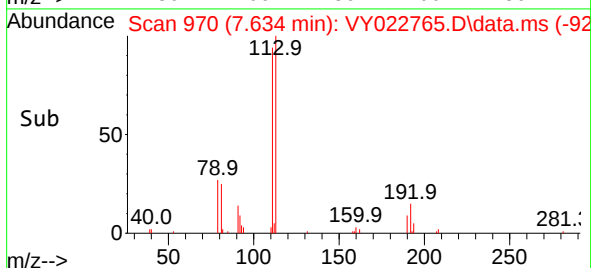
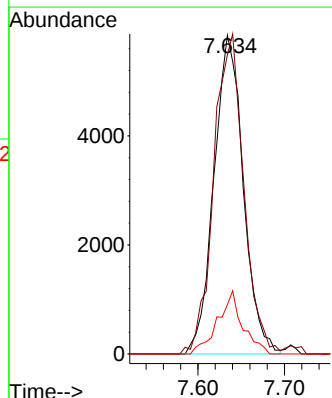
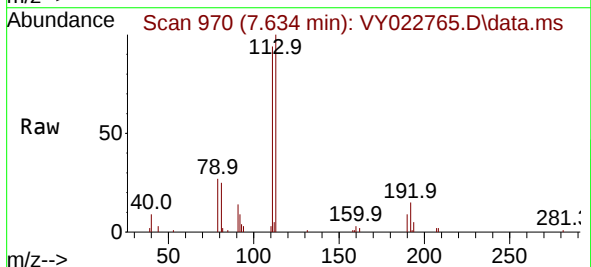
Instrument :
MSVOA_Y
ClientSampleId :

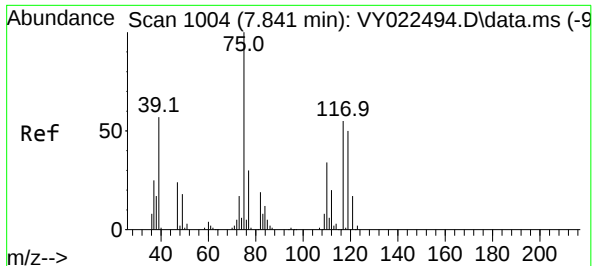
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	40.8
88	13.9	0.0	27.8



#35
Dibromofluoromethane
Concen: 49.440 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.1	121.7
192	16.8	14.2	21.2





#36

1,1-Dichloropropene

Concen: 5.843 ug/l

RT: 7.713 min Scan# 9

Delta R.T. -0.128 min

Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

Instrument :

MSVOA_Y

ClientSampleId :

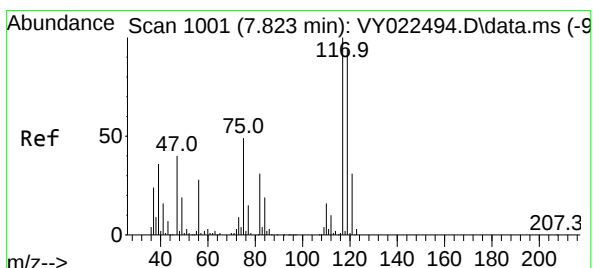
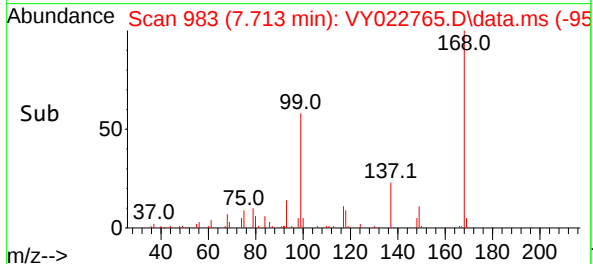
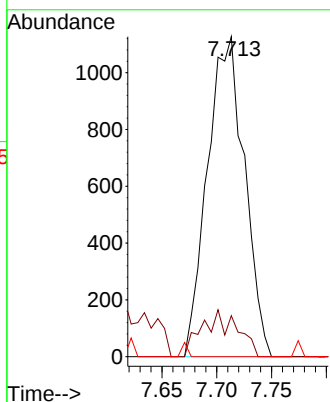
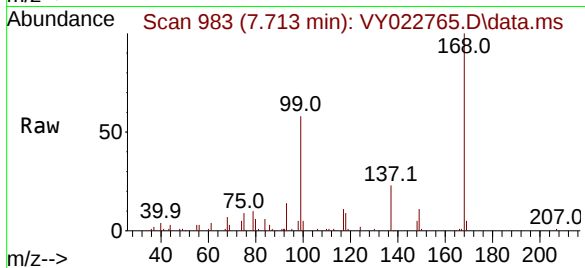
Tgt Ion: 75 Resp: 2643

Ion Ratio Lower Upper

75 100

110 13.7 16.9 50.7#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.532 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.122 min

Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

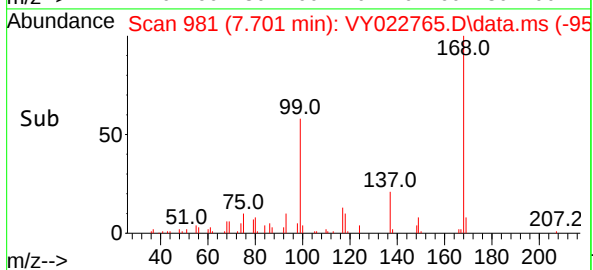
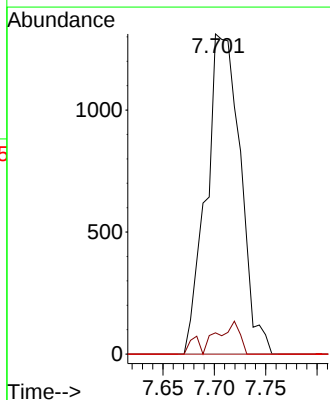
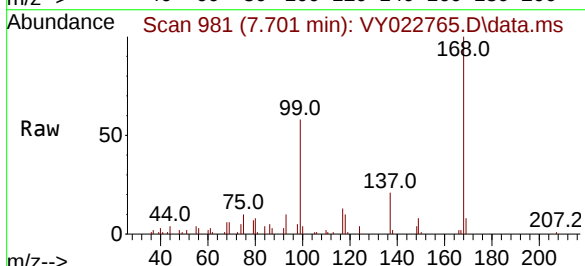
Tgt Ion: 117 Resp: 3031

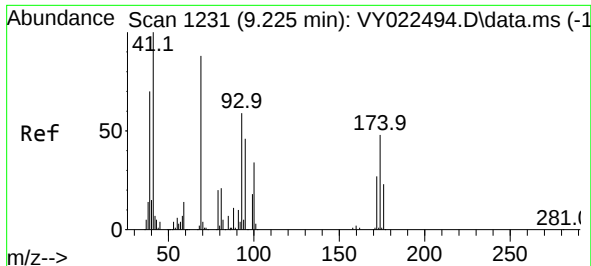
Ion Ratio Lower Upper

117 100

119 6.6 75.0 112.6#

121 0.0 25.0 37.4#





#48

Methyl methacrylate

Concen: 1.022 ug/l

RT: 9.225 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

Instrument :

MSVOA_Y

ClientSampleId :

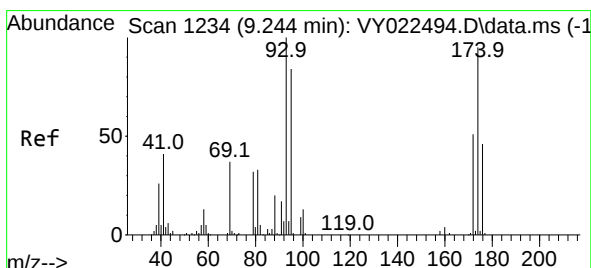
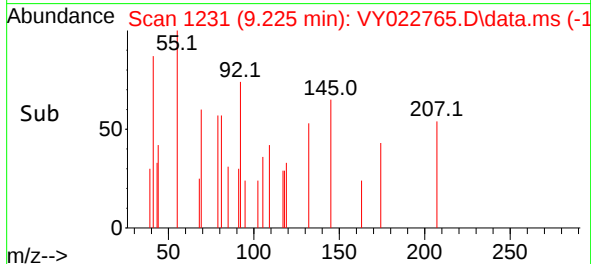
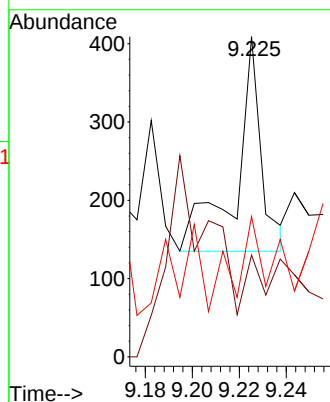
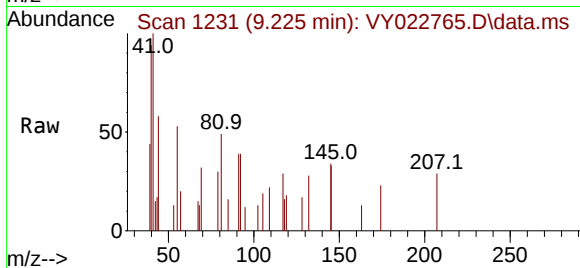
Tgt Ion: 41 Resp: 209

Ion Ratio Lower Upper

41 100

69 0.0 67.8 101.8#

39 34.9 55.0 82.4#



#49

1,4-Dioxane

Concen: 10.454 ug/l

RT: 9.292 min Scan# 1242

Delta R.T. 0.049 min

Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

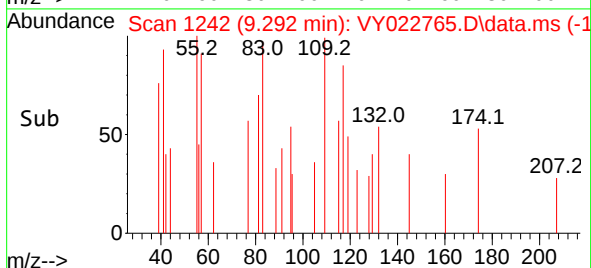
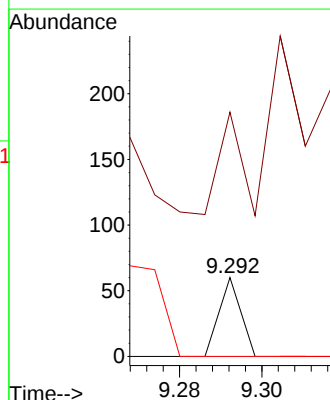
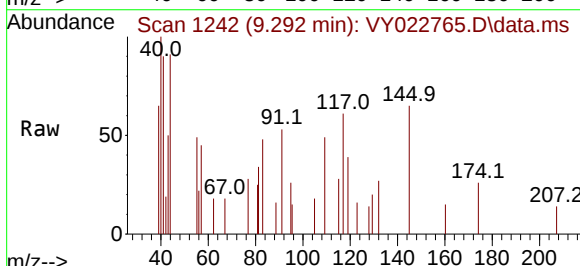
Tgt Ion: 88 Resp: 22

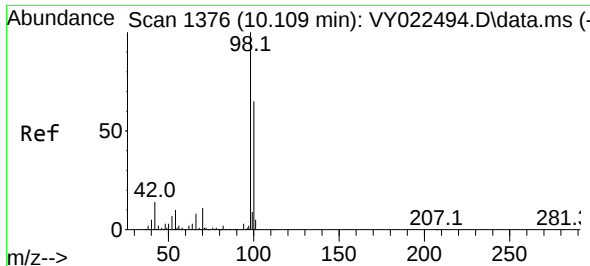
Ion Ratio Lower Upper

88 100

43 440.9 25.4 38.2#

58 0.0 54.9 82.3#

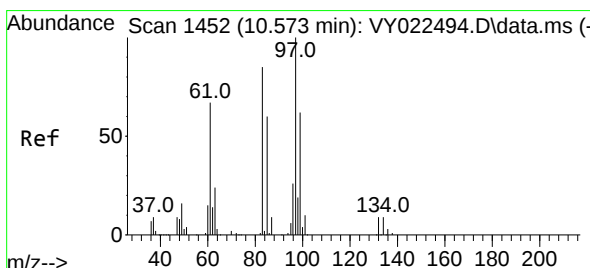
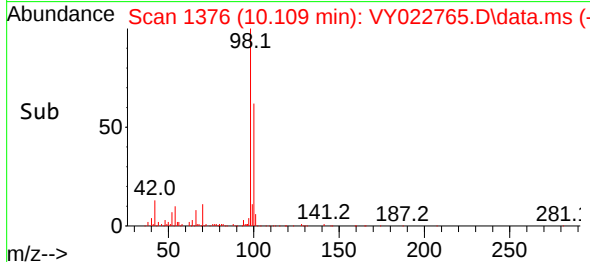
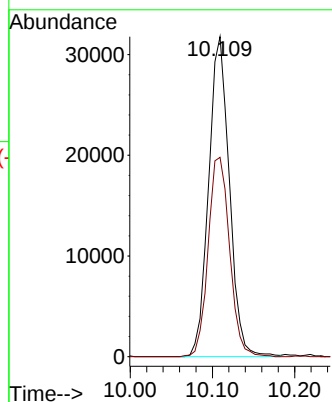
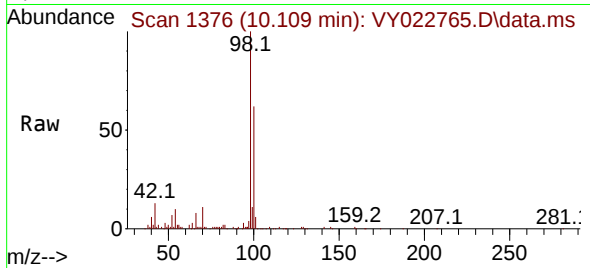




#50
Toluene-d8
Concen: 49.366 ug/l
RT: 10.109 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

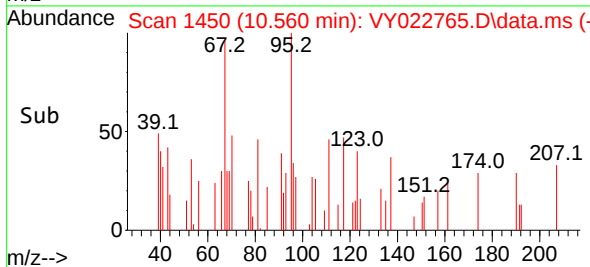
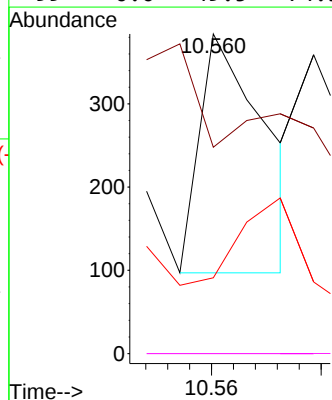
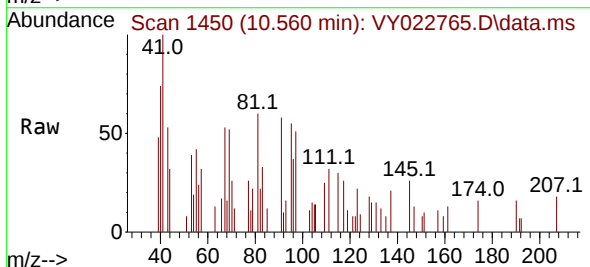
Instrument :
MSVOA_Y
ClientSampleId :

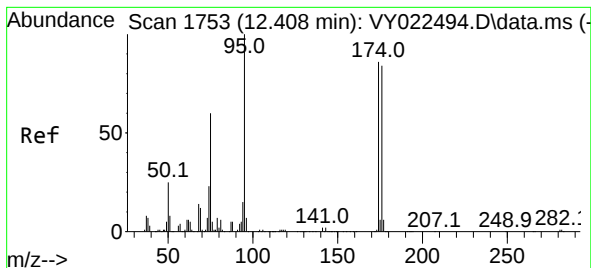
Tgt Ion: 98 Resp: 55596
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.0



#55
1,1,2-Trichloroethane
Concen: 1.051 ug/l
RT: 10.560 min Scan# 1450
Delta R.T. -0.012 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

Tgt Ion: 97 Resp: 238
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 3.1 48.2 72.2#
99 0.0 49.5 74.3#

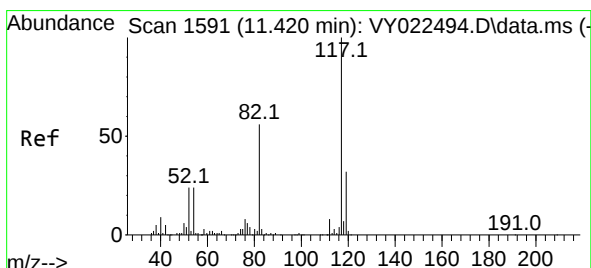
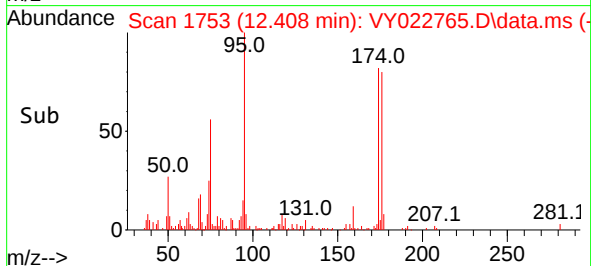
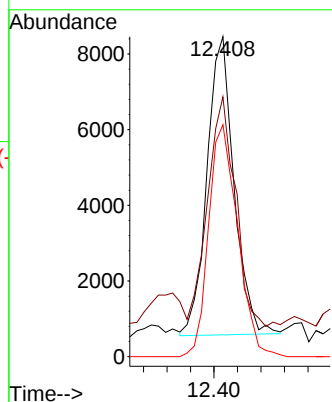
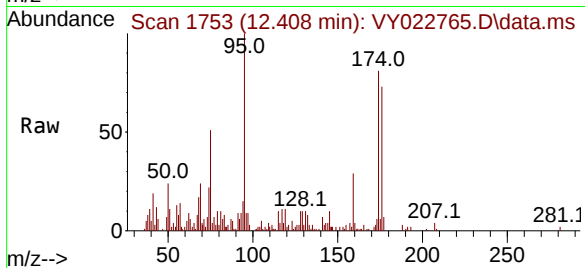




#62
4-Bromofluorobenzene
Concen: 37.464 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

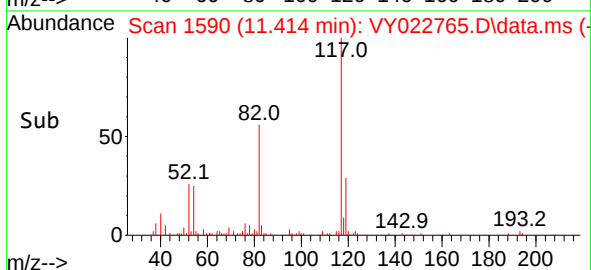
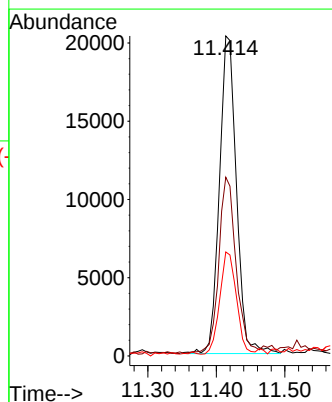
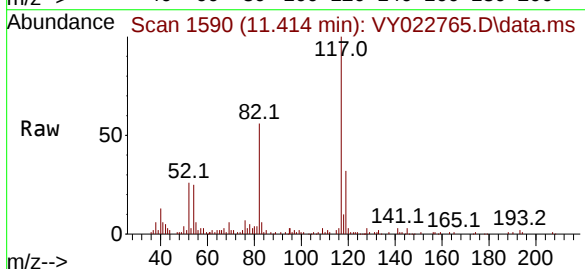
Instrument :
MSVOA_Y
ClientSampleId :

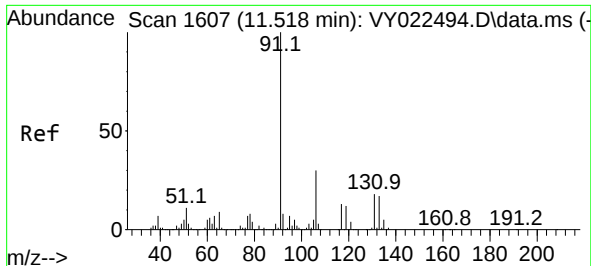
Tgt Ion: 95 Resp: 12571
Ion Ratio Lower Upper
95 100
174 80.2 0.0 170.0
176 83.8 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

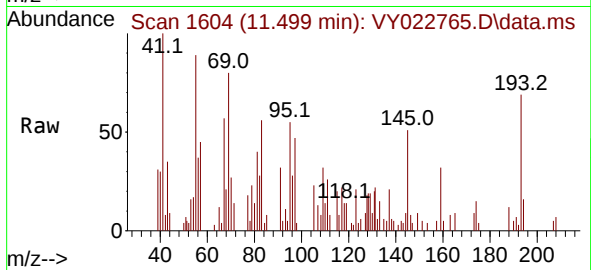
Tgt Ion: 117 Resp: 34930
Ion Ratio Lower Upper
117 100
82 55.0 44.6 66.8
119 32.1 25.4 38.0



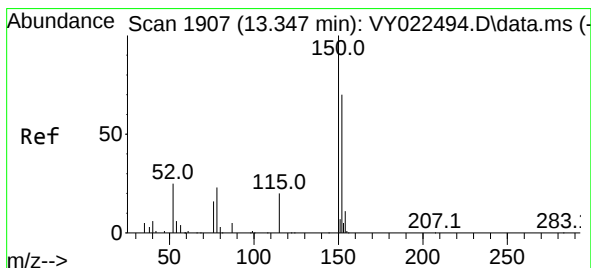
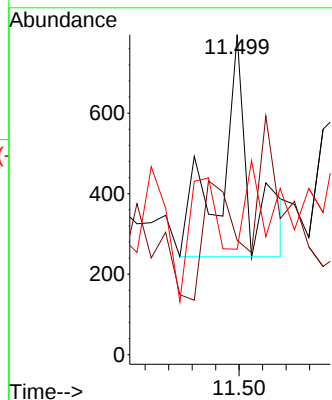
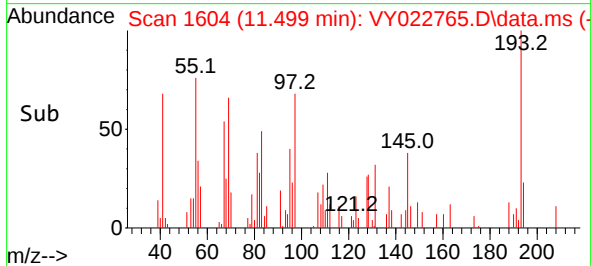


#66
 1,1,1,2-Tetrachloroethane
 Concen: 1.874 ug/l
 RT: 11.499 min Scan# 11
 Delta R.T. -0.018 min
 Lab File: VY022765.D
 Acq: 20 Jun 2025 15:55

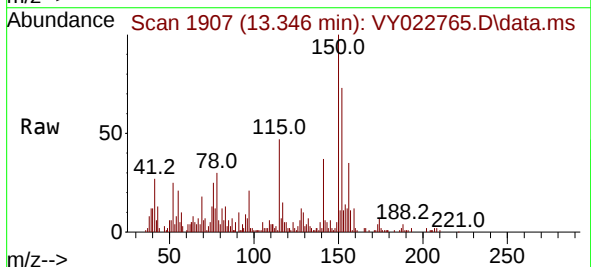
Instrument :
 MSVOA_Y
 ClientSampleId :



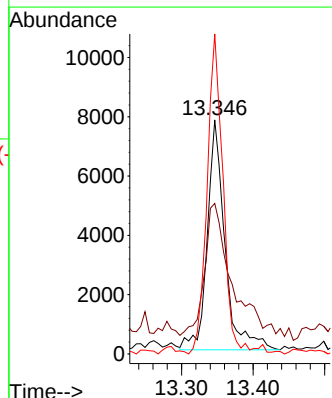
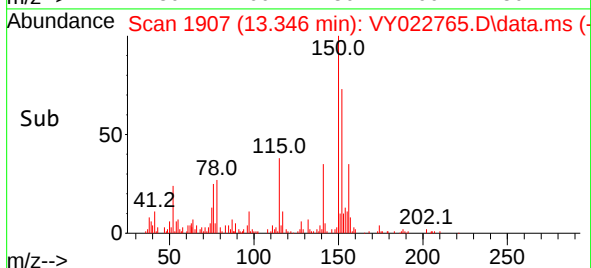
Tgt Ion:131 Resp: 488
 Ion Ratio Lower Upper
 131 100
 133 84.0 47.3 141.8
 119 0.0 33.1 99.3#

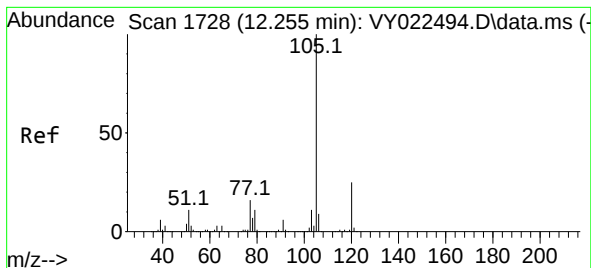


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY022765.D
 Acq: 20 Jun 2025 15:55



Tgt Ion:152 Resp: 13397
 Ion Ratio Lower Upper
 152 100
 115 98.3 28.9 86.7#
 150 124.8 0.0 349.6





#73

Isopropylbenzene

Concen: 1.012 ug/l

RT: 12.261 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

Instrument :

MSVOA_Y

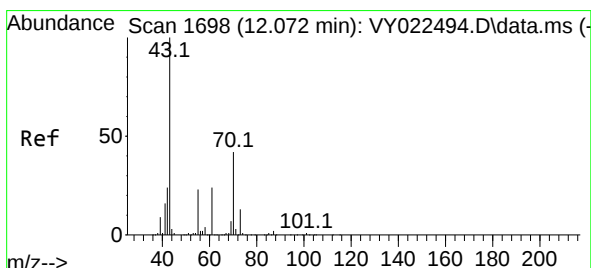
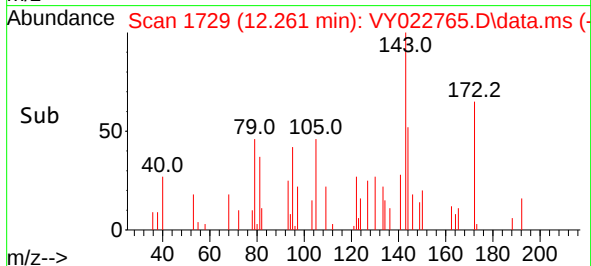
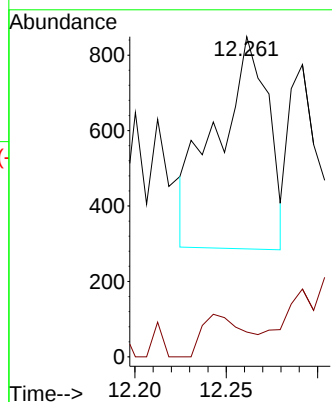
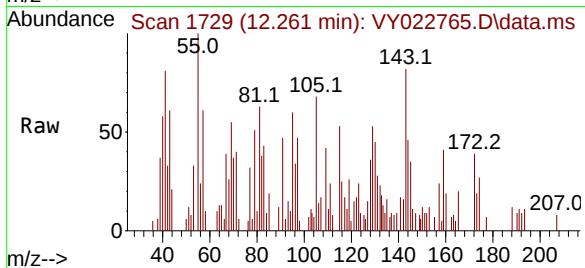
ClientSampleId :

Tgt Ion:105 Resp: 1113

Ion Ratio Lower Upper

105 100

120 16.5 13.0 38.9



#74

N-ethyl acetate

Concen: 1.077 ug/l

RT: 12.072 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

Tgt Ion: 43 Resp: 299

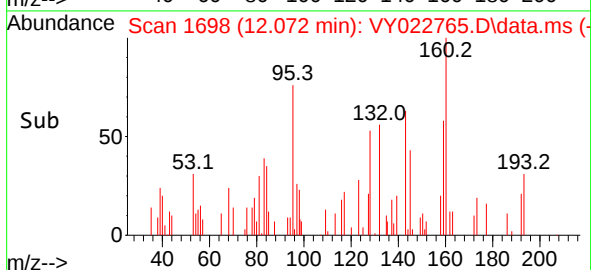
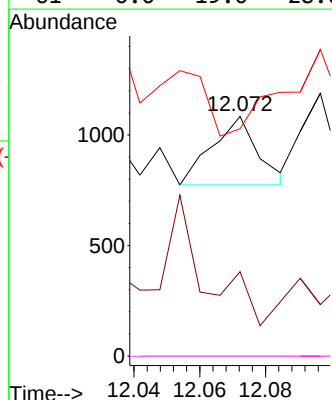
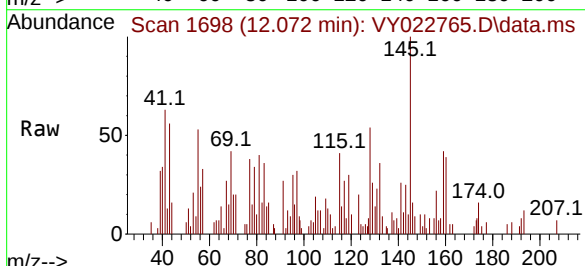
Ion Ratio Lower Upper

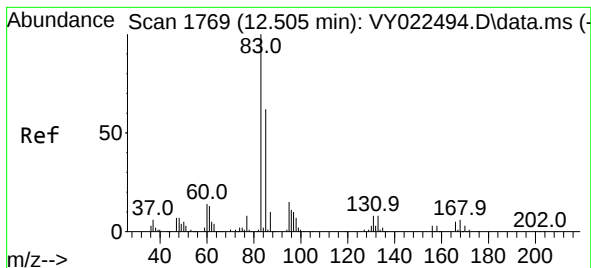
43 100

70 0.0 34.2 51.2#

55 0.0 18.2 27.4#

61 0.0 19.0 28.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.762 ug/l

RT: 12.517 min Scan# 1771

Delta R.T. 0.012 min

Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

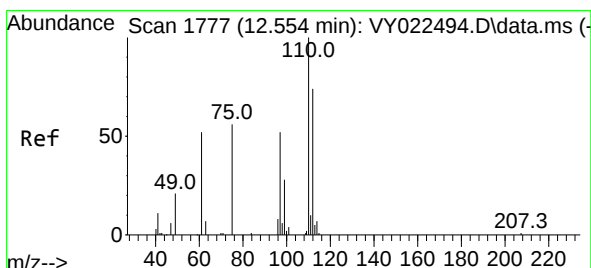
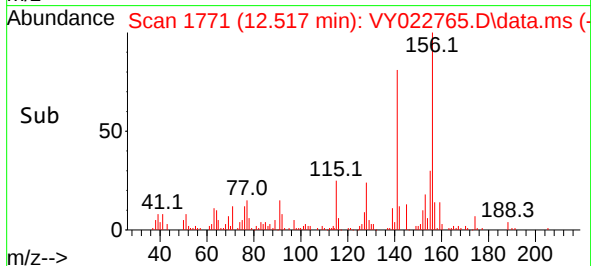
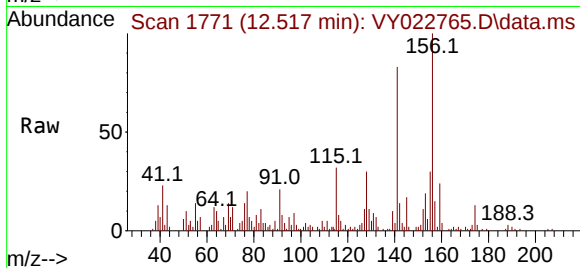
Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 83 Resp: 318

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	96.2	32.6	97.8



#76

1,2,3-Trichloropropane

Concen: 9.989 ug/l

RT: 12.536 min Scan# 1774

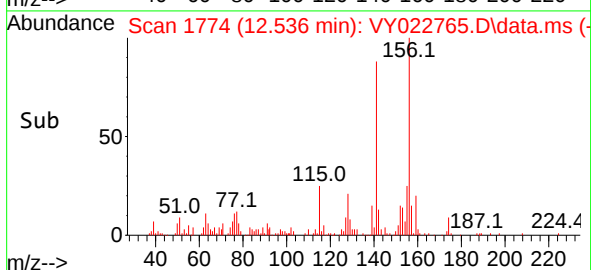
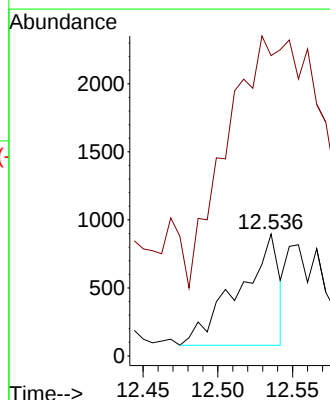
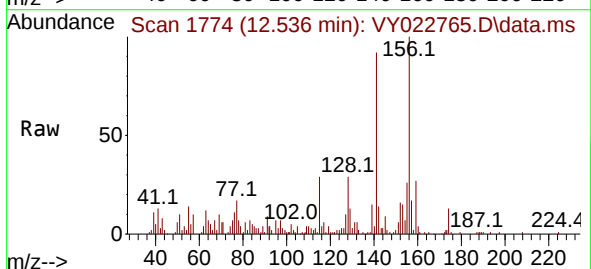
Delta R.T. -0.018 min

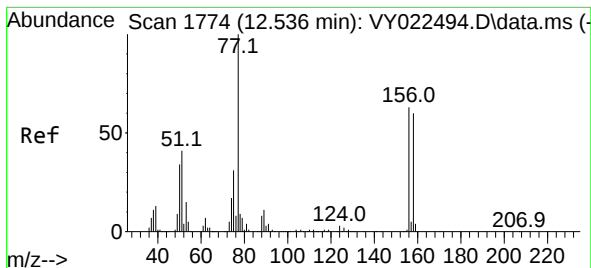
Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

Tgt Ion: 75 Resp: 1531

Ion	Ratio	Lower	Upper
75	100		
77	584.1	0.0	0.0#





#77

Bromobenzene

Concen: 323.911 ug/l

RT: 12.554 min Scan# 1

Delta R.T. 0.018 min

Lab File: VY022765.D

Acq: 20 Jun 2025 15:55

Instrument :

MSVOA_Y

ClientSampleId :

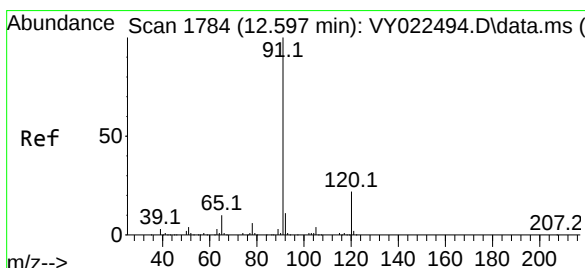
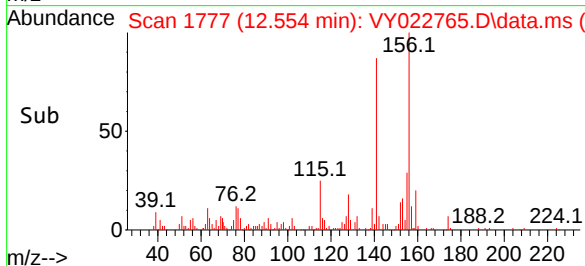
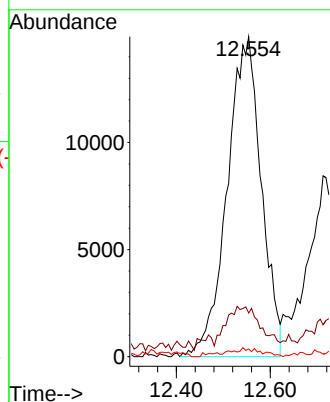
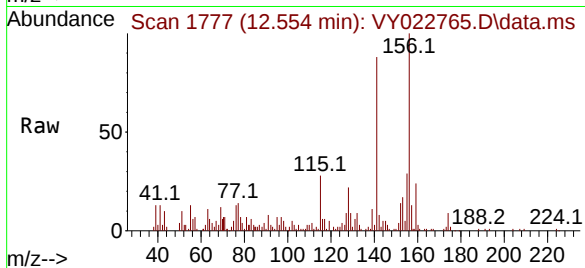
Tgt Ion:156 Resp: 75181

Ion Ratio Lower Upper

156 100

77 0.0 94.0 282.1#

158 0.0 48.2 144.6#



#78

n-propylbenzene

Concen: 1.196 ug/l

RT: 12.517 min Scan# 1771

Delta R.T. -0.079 min

Lab File: VY022765.D

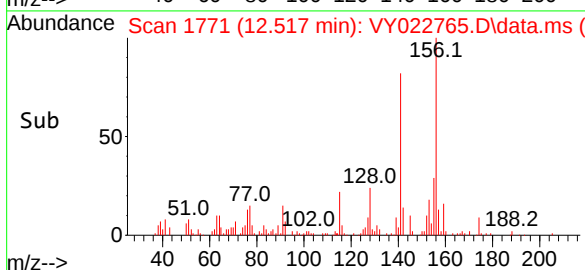
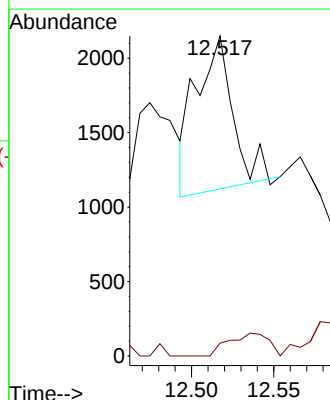
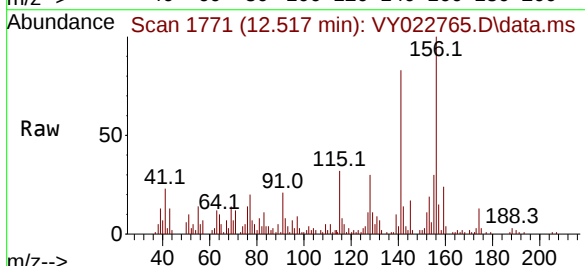
Acq: 20 Jun 2025 15:55

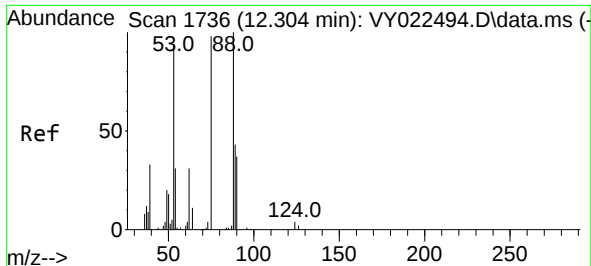
Tgt Ion: 91 Resp: 1607

Ion Ratio Lower Upper

91 100

120 16.0 10.8 32.4

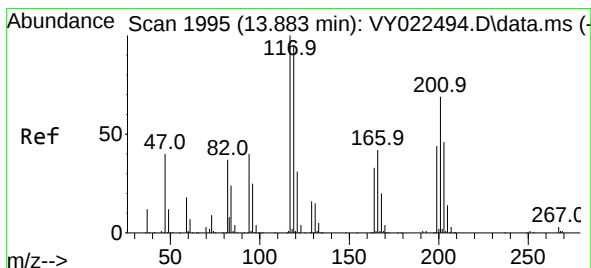
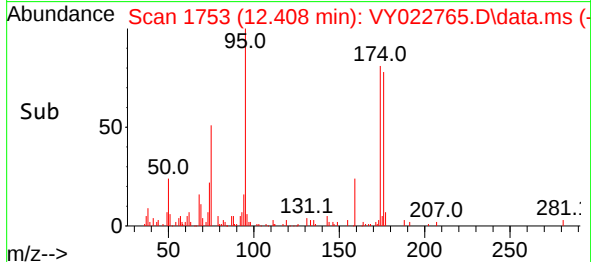
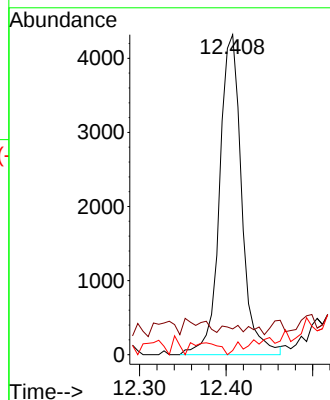
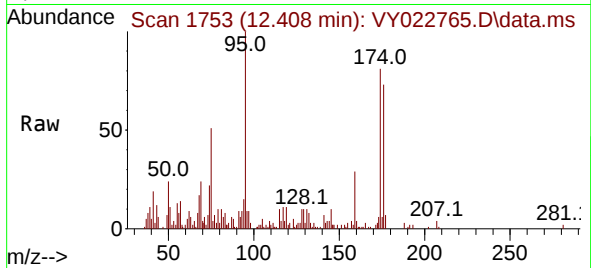




#81
trans-1,4-Dichloro-2-butene
Concen: 120.884 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

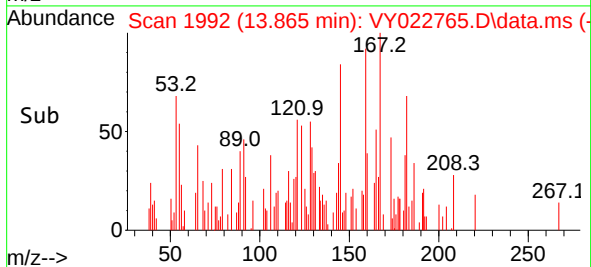
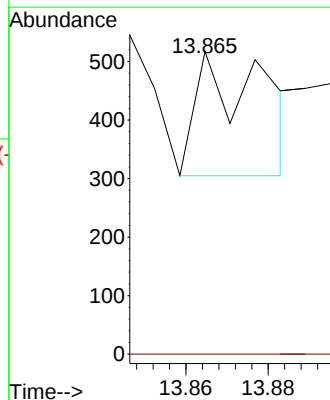
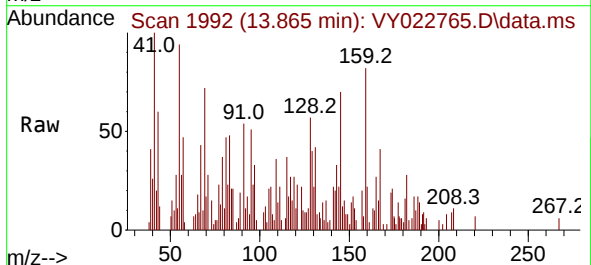
Instrument :
MSVOA_Y
ClientSampleId :

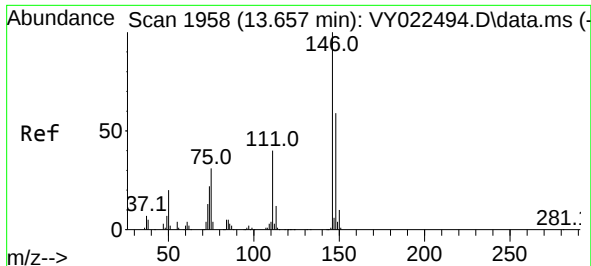
Tgt Ion: 75 Resp: 7672
Ion Ratio Lower Upper
75 100
53 1.5 78.5 117.7#
89 1.5 35.7 53.5#



#90
Hexachloroethane
Concen: 1.239 ug/l
RT: 13.865 min Scan# 1992
Delta R.T. -0.018 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

Tgt Ion: 117 Resp: 236
Ion Ratio Lower Upper
117 100
201 0.0 34.0 102.0#

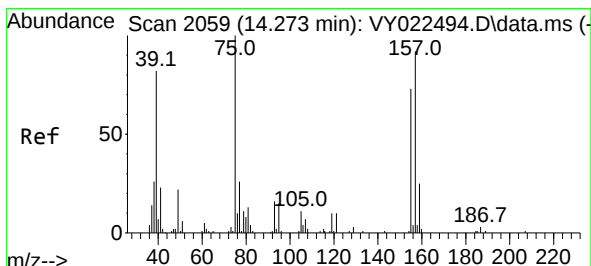
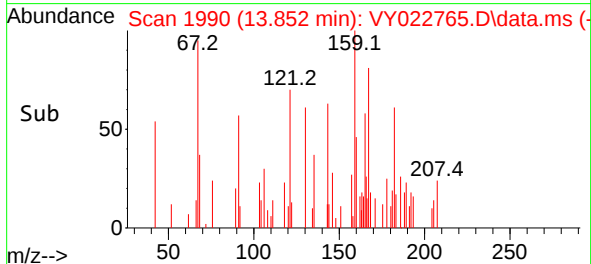
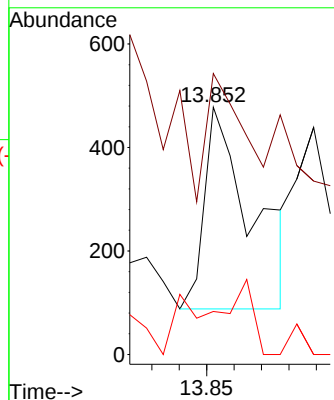
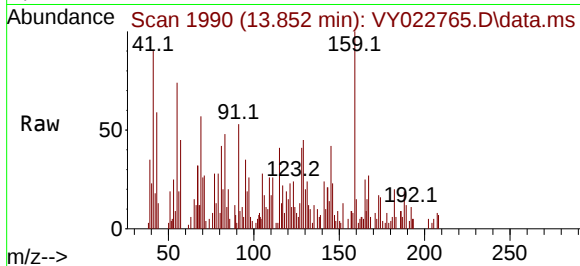




#91
 1,2-Dichlorobenzene
 Concen: 1.162 ug/l
 RT: 13.852 min Scan# 1958
 Delta R.T. 0.195 min
 Lab File: VY022765.D
 Acq: 20 Jun 2025 15:55

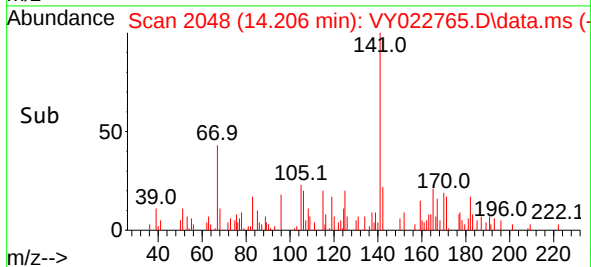
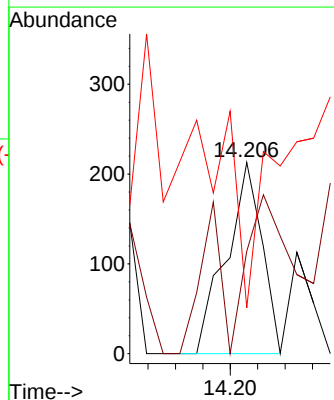
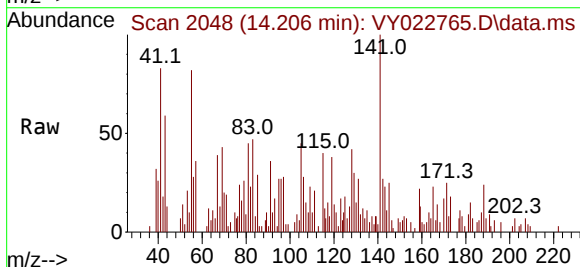
Instrument :
 MSVOA_Y
 ClientSampleId :

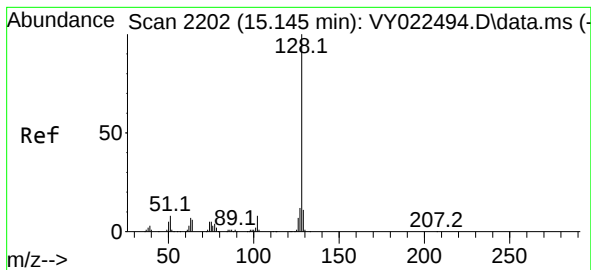
Tgt Ion:	146	Resp:	464
Ion	Ratio	Lower	Upper
146	100		
111	49.8	20.2	60.6
148	38.8	31.4	94.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 7.305 ug/l
 RT: 14.206 min Scan# 2048
 Delta R.T. -0.067 min
 Lab File: VY022765.D
 Acq: 20 Jun 2025 15:55

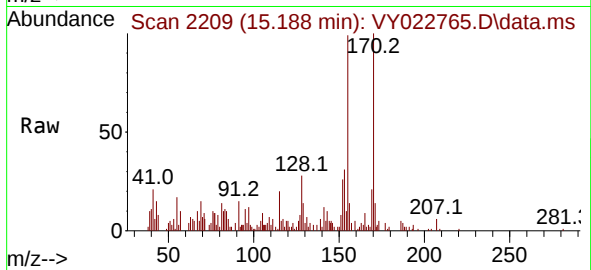
Tgt Ion:	75	Resp:	192
Ion	Ratio	Lower	Upper
75	100		
155	112.0	39.9	119.6
157	105.7	54.0	162.0





#95
Naphthalene
Concen: 6.550 ug/l
RT: 15.188 min Scan# 21
Delta R.T. 0.043 min
Lab File: VY022765.D
Acq: 20 Jun 2025 15:55

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 2737
Ion Ratio Lower Upper
128 100
127 78.3 10.4 15.6#
129 22.4 8.9 13.3#

