

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022789.D
 Acq On : 24 Jun 2025 11:58
 Operator : SY/MD
 Sample : Q2386-01
 Misc : 5.89g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-1-062025

Quant Time: Jun 25 01:23:05 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)

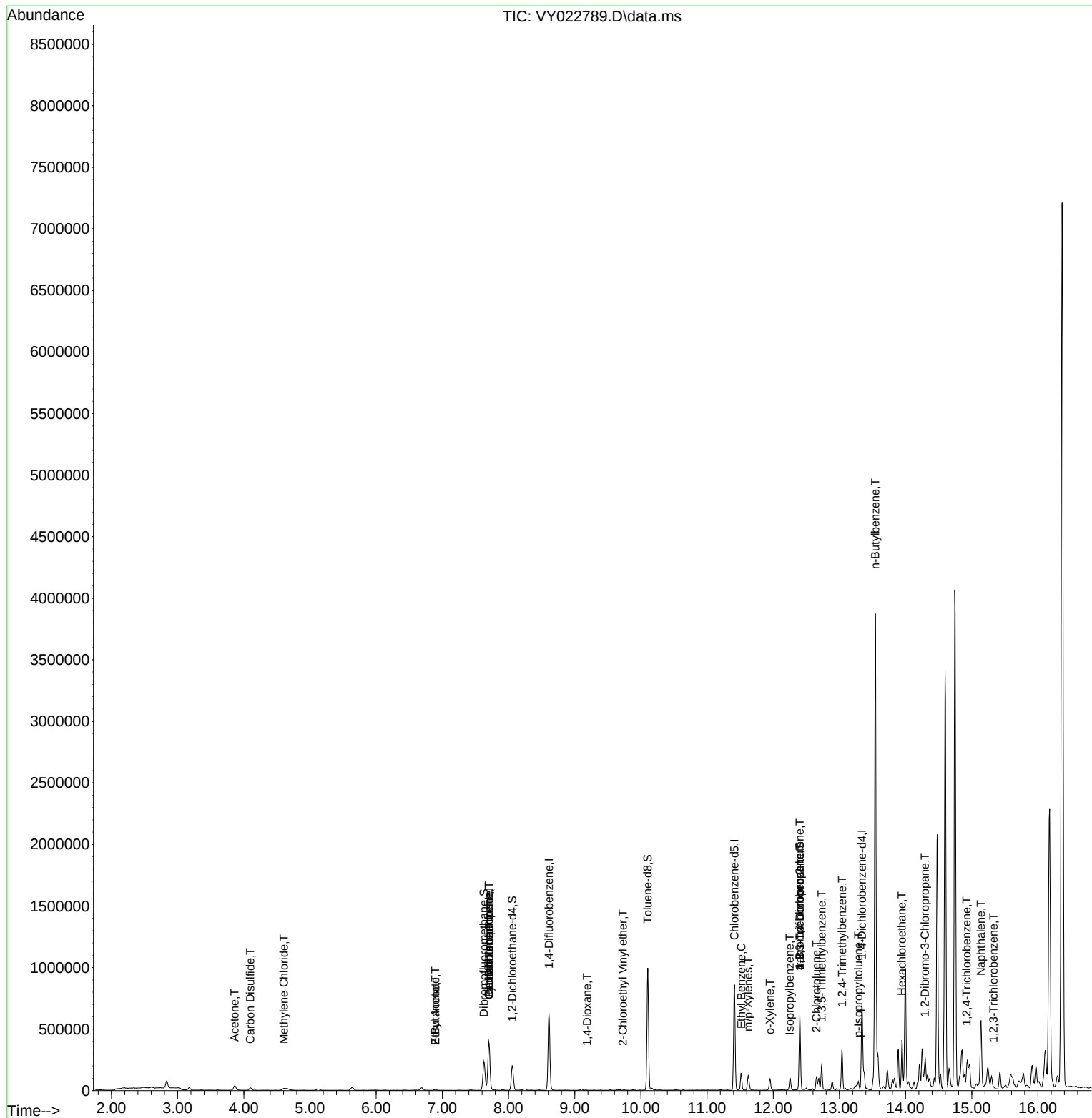
Internal Standards						
1) Pentafluorobenzene	7.701	168	287860	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.610	114	515095	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	435732	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.341	152	166970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	159402	49.615	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.220%		
35) Dibromofluoromethane	7.628	113	164157	52.403	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	104.800%		
50) Toluene-d8	10.103	98	620472	49.916	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	99.840%		
62) 4-Bromofluorobenzene	12.402	95	174748	43.731	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	87.460%		
Target Compounds					Qvalue	
16) Acetone	3.861	43	62219	102.461	ug/l	97
17) Carbon Disulfide	4.098	76	37508	3.985	ug/l	98
20) Methylene Chloride	4.604	84	7842	2.045	ug/l #	91
25) 2-Butanone	6.890	43	11221	12.696	ug/l #	88
31) Cyclohexane	7.707	56	13617	2.468	ug/l #	63
36) 1,1-Dichloropropene	7.701	75	24168	5.090	ug/l #	51
37) Ethyl Acetate	6.890	43	11221	5.477	ug/l #	72
38) Carbon Tetrachloride	7.707	117	28648	5.718	ug/l #	18
49) 1,4-Dioxane	9.189	88	40	1.746	ug/l #	24
58) 2-Chloroethyl Vinyl ether	9.725	63	228	15.776	ug/l #	48
67) Ethyl Benzene	11.518	91	90586	5.385	ug/l	99
68) m/p-Xylenes	11.621	106	36412	5.599	ug/l	97
69) o-Xylene	11.951	106	23433	3.824	ug/l	98
73) Isopropylbenzene	12.249	105	15439	1.250	ug/l	95
76) 1,2,3-Trichloropropane	12.402	75	97617	57.266	ug/l #	100
79) 2-Chlorotoluene	12.652	91	10498	1.246	ug/l #	56
80) 1,3,5-Trimethylbenzene	12.731	105	90182	9.047	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.402	75	97617	144.676	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.042	105	167356	16.769	ug/l	100
86) p-Isopropyltoluene	13.286	119	30847	2.802	ug/l #	76
89) n-Butylbenzene	13.542	91	335893	32.440	ug/l #	45
90) Hexachloroethane	13.944	117	158057	72.094	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.292	75	3539	10.486	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.919	180	3075	1.099	ug/l #	83
95) Naphthalene	15.139	128	424101	83.849	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	2983	1.234	ug/l #	85

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

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Instrument :
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SU-1-062025

Quant Time: Jun 25 01:23:05 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

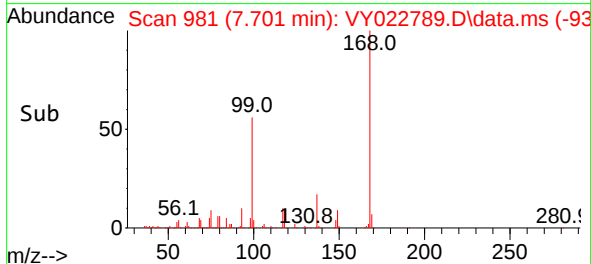
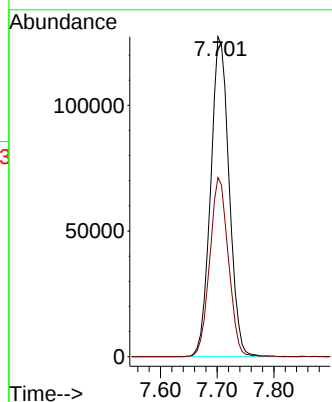
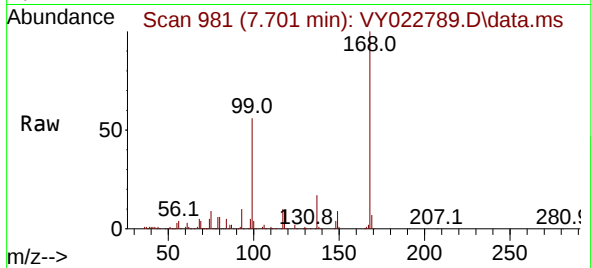




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

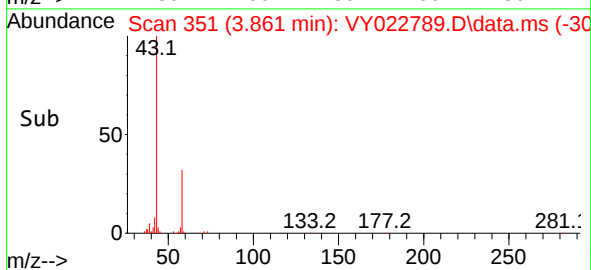
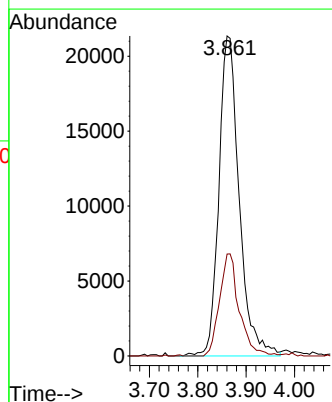
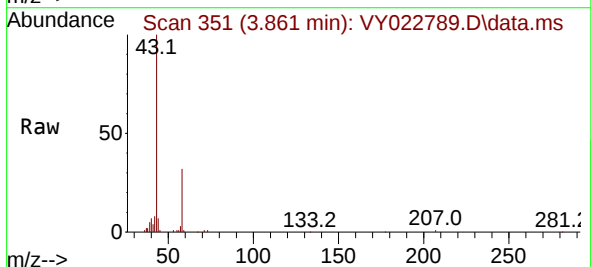
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

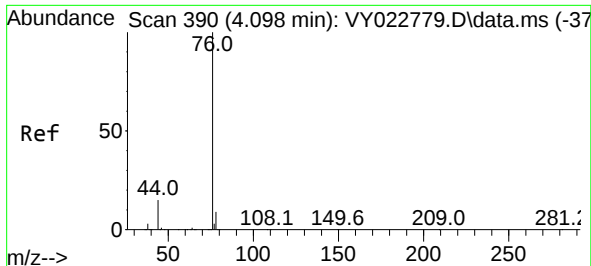
Tgt Ion:168 Resp: 287860
Ion Ratio Lower Upper
168 100
99 56.0 44.3 66.5



#16
Acetone
Concen: 102.461 ug/l
RT: 3.861 min Scan# 351
Delta R.T. -0.018 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

Tgt Ion: 43 Resp: 62219
Ion Ratio Lower Upper
43 100
58 31.5 24.0 36.0

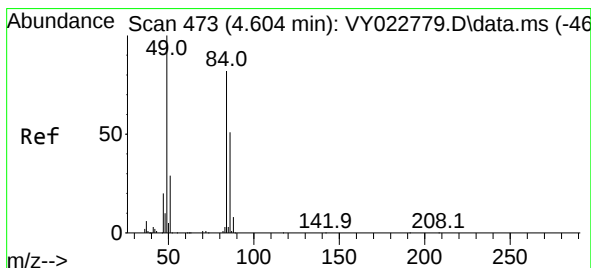
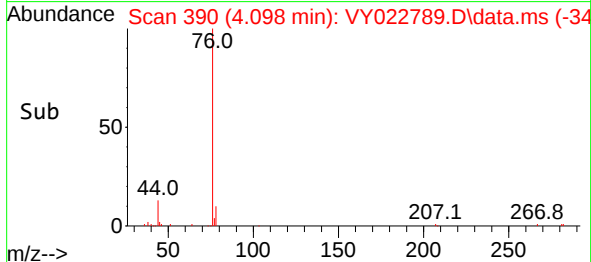
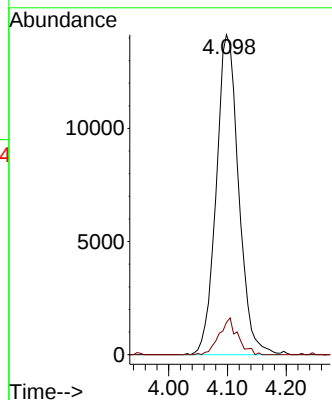
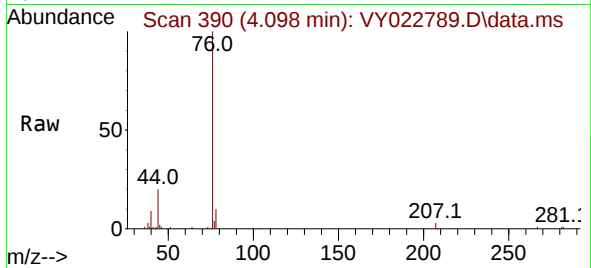




#17
Carbon Disulfide
Concen: 3.985 ug/l
RT: 4.098 min Scan# 390
Delta R.T. -0.012 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

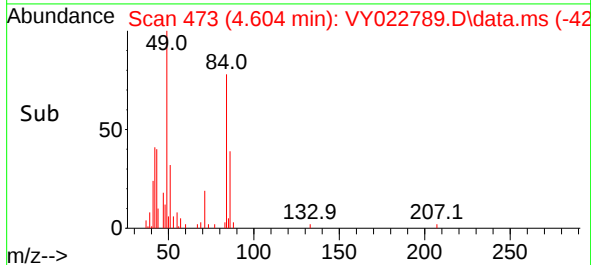
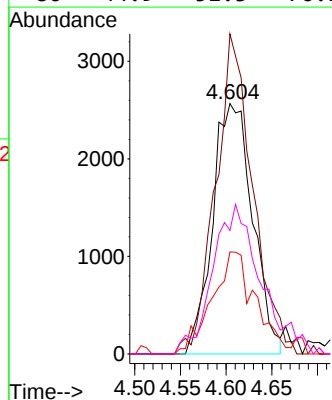
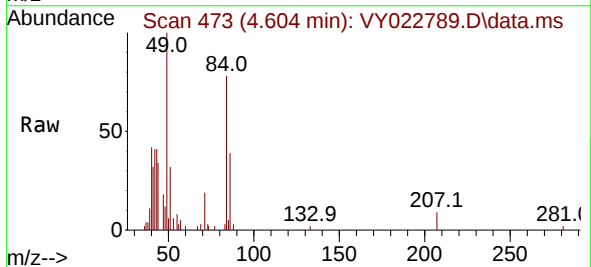
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

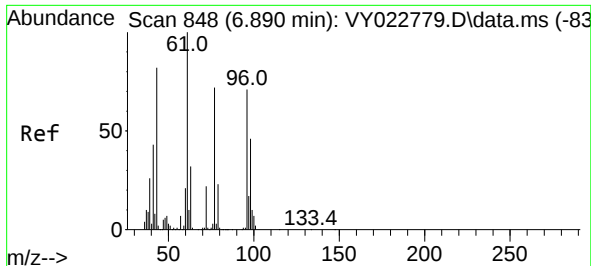
Tgt Ion: 76 Resp: 37508
Ion Ratio Lower Upper
76 100
78 10.1 7.4 11.2



#20
Methylene Chloride
Concen: 2.045 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.018 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

Tgt Ion: 84 Resp: 7842
Ion Ratio Lower Upper
84 100
49 123.6 101.9 152.9
51 38.7 29.8 44.8
86 44.9 51.3 76.9

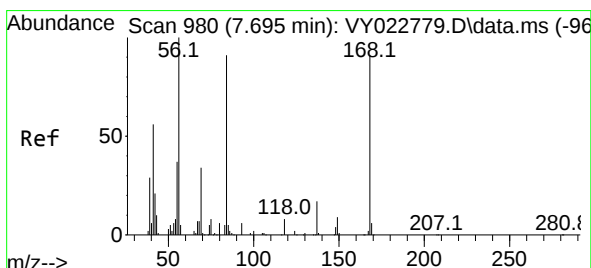
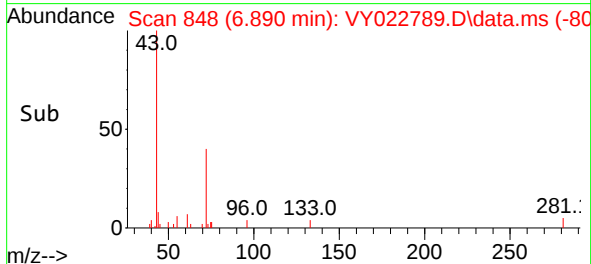
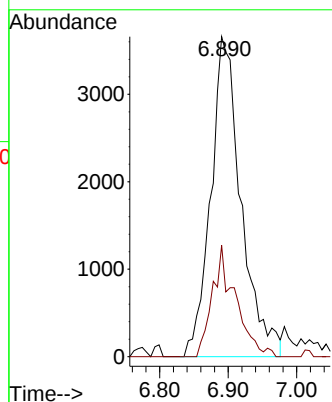
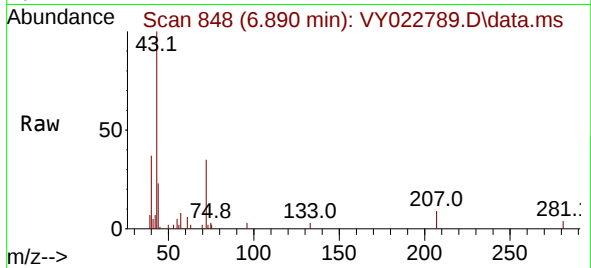




#25
2-Butanone
Concen: 12.696 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

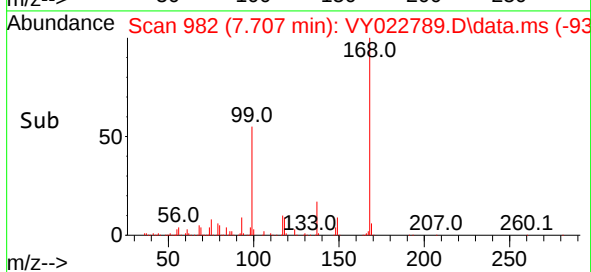
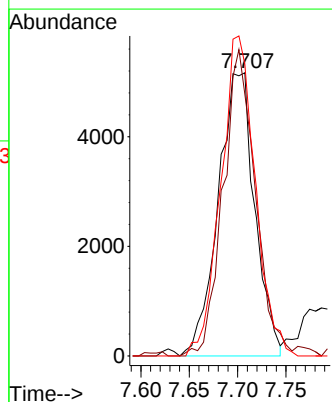
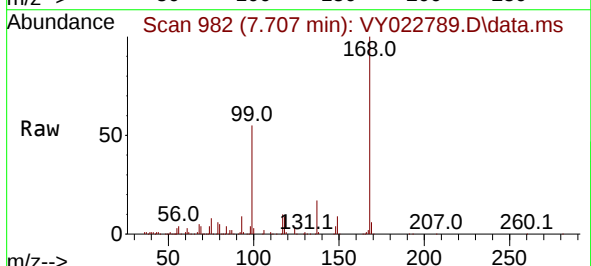
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

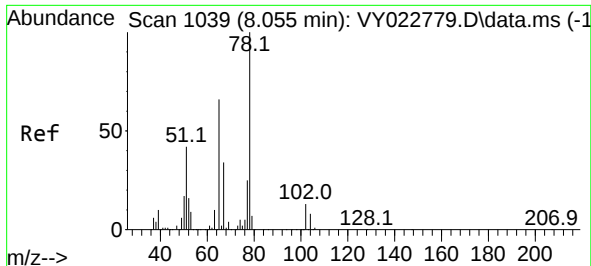
Tgt Ion: 43 Resp: 11221
Ion Ratio Lower Upper
43 100
72 34.8 22.9 34.3#



#31
Cyclohexane
Concen: 2.468 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

Tgt Ion: 56 Resp: 13617
Ion Ratio Lower Upper
56 100
69 92.4 27.0 40.6#
84 103.0 72.6 109.0

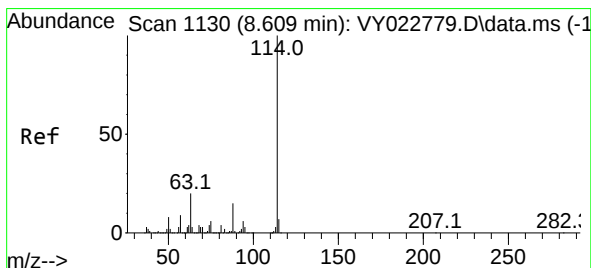
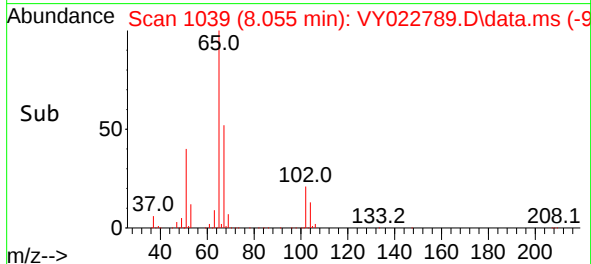
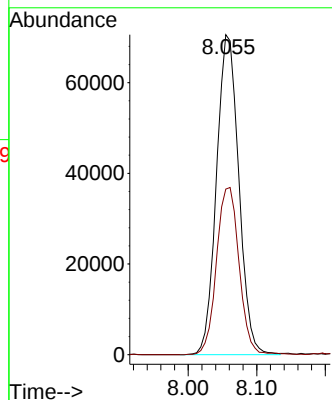
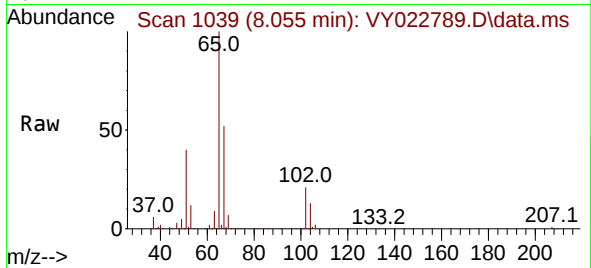




#33
 1,2-Dichloroethane-d4
 Concen: 49.615 ug/l
 RT: 8.055 min Scan# 1039
 Delta R.T. -0.012 min
 Lab File: VY022789.D
 Acq: 24 Jun 2025 11:58

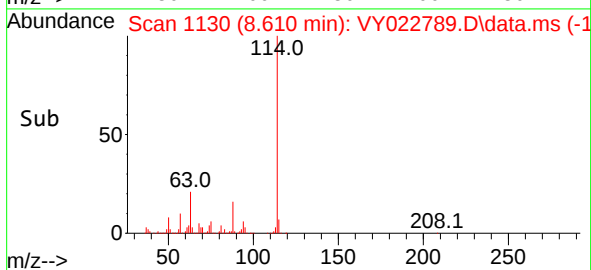
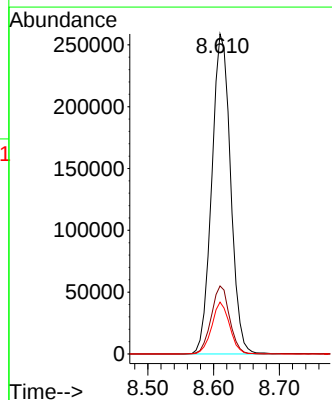
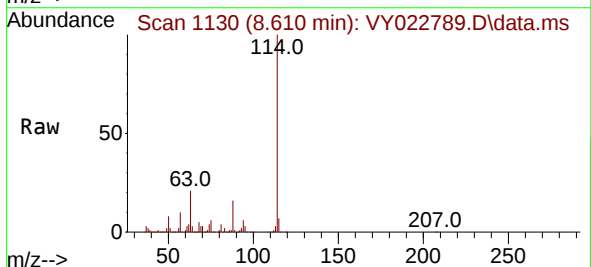
Instrument :
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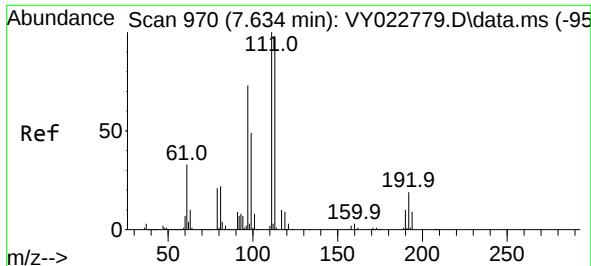
Tgt Ion: 65 Resp: 159402
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.610 min Scan# 1130
 Delta R.T. -0.006 min
 Lab File: VY022789.D
 Acq: 24 Jun 2025 11:58

Tgt Ion: 114 Resp: 515095
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 40.8
 88 16.2 0.0 27.8

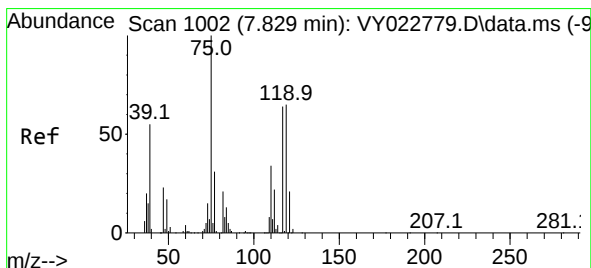
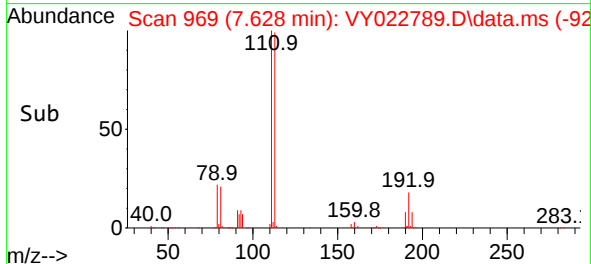
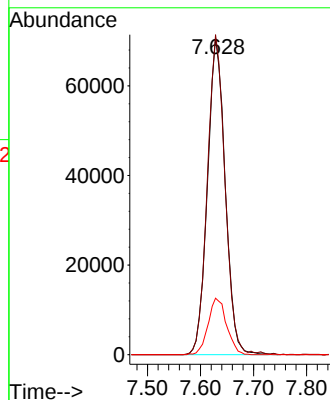
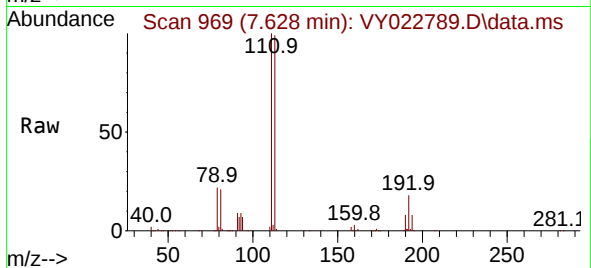




#35
Dibromofluoromethane
Concen: 52.403 ug/l
RT: 7.628 min Scan# 910
Delta R.T. -0.012 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

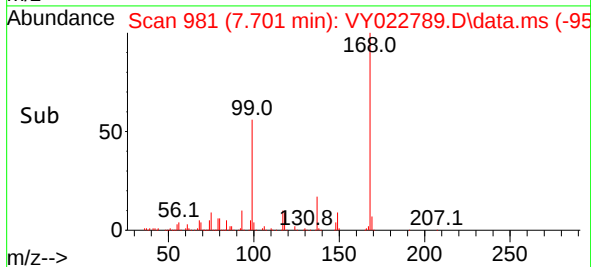
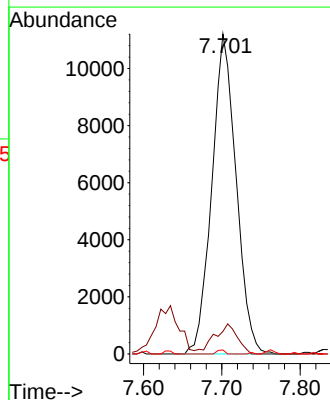
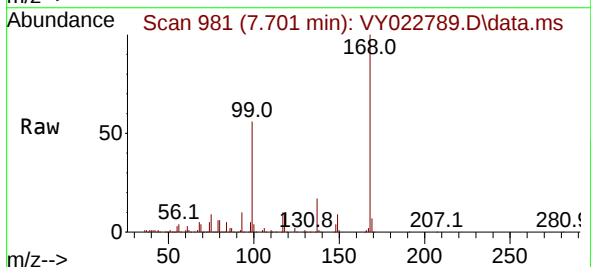
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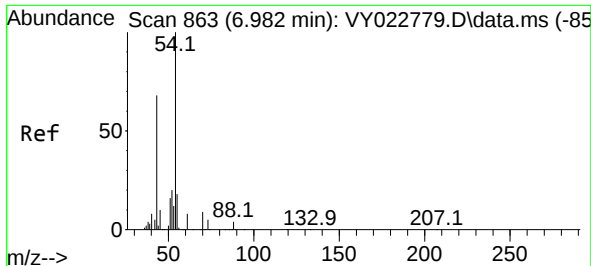
Tgt Ion:113 Resp: 164157
Ion Ratio Lower Upper
113 100
111 100.6 81.1 121.7
192 18.6 14.2 21.2



#36
1,1-Dichloropropene
Concen: 5.090 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

Tgt Ion: 75 Resp: 24168
Ion Ratio Lower Upper
75 100
110 8.9 16.9 50.7#
77 0.4 24.8 37.2#





#37

Ethyl Acetate

Concen: 5.477 ug/l

RT: 6.890 min Scan# 84

Delta R.T. -0.104 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

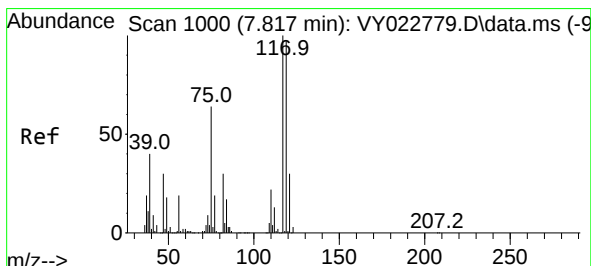
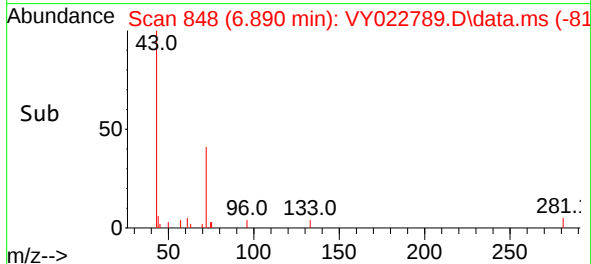
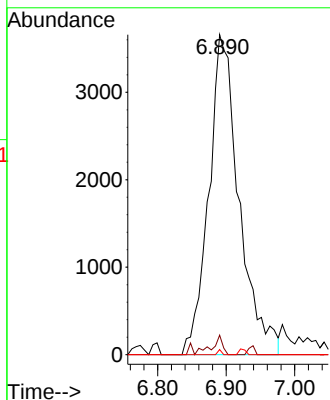
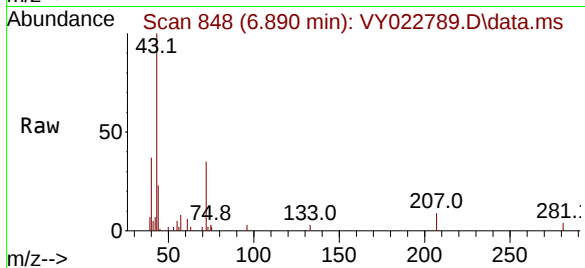
Tgt Ion: 43 Resp: 11221

Ion Ratio Lower Upper

43 100

61 1.8 11.5 17.3#

70 0.2 7.2 10.8#



#38

Carbon Tetrachloride

Concen: 5.718 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

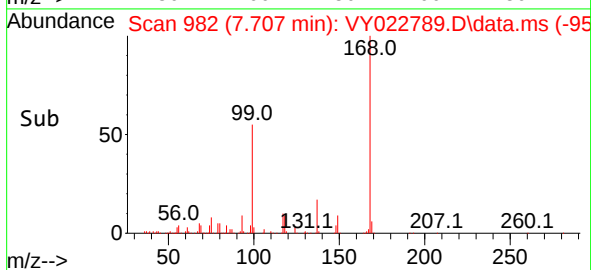
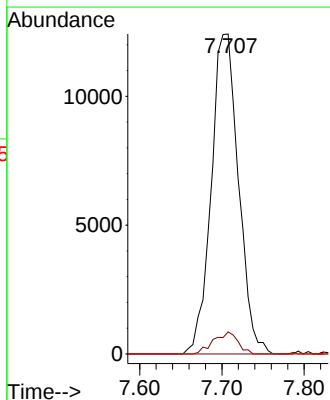
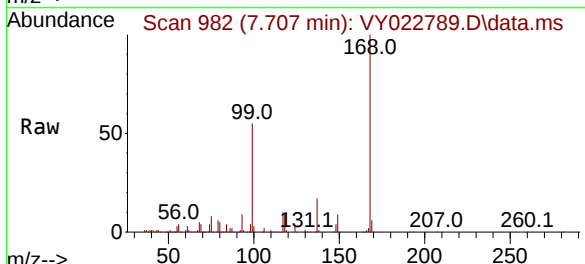
Tgt Ion: 117 Resp: 28648

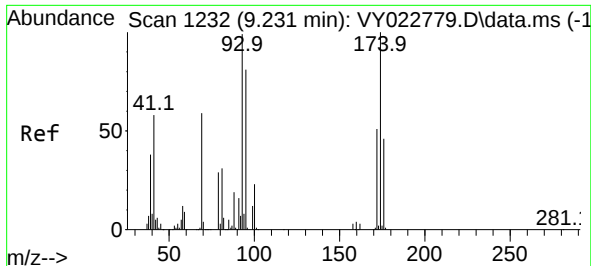
Ion Ratio Lower Upper

117 100

119 6.9 75.0 112.6#

121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 1.746 ug/l

RT: 9.189 min Scan# 1225

Delta R.T. -0.055 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

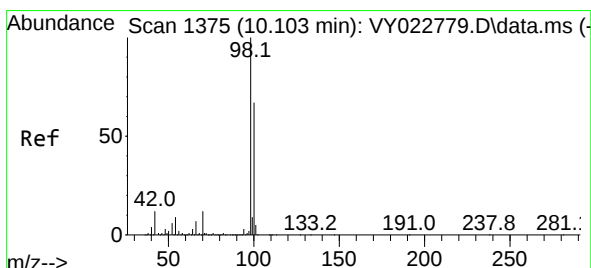
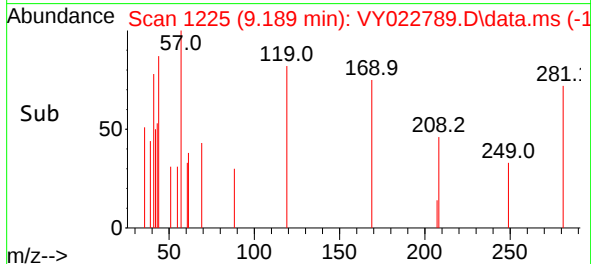
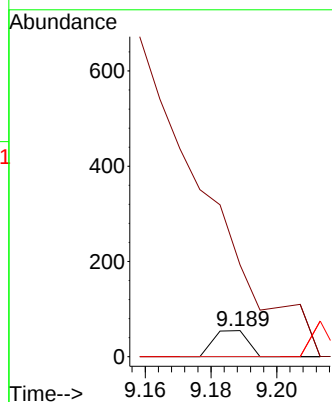
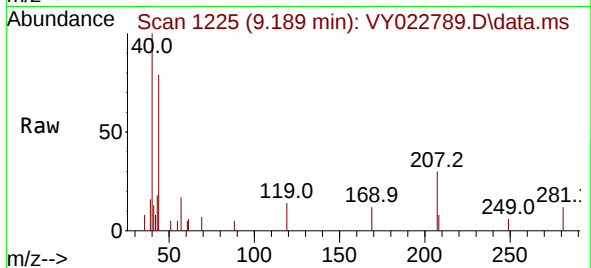
Tgt Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

43 0.0 25.4 38.2#

58 0.0 54.9 82.3#



#50

Toluene-d8

Concen: 49.916 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022789.D

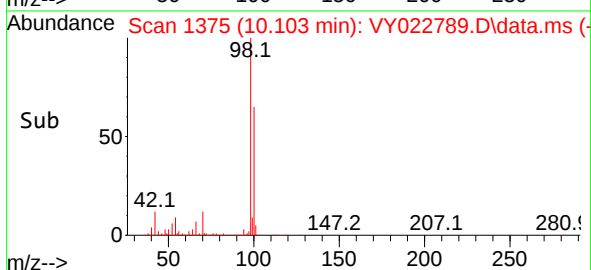
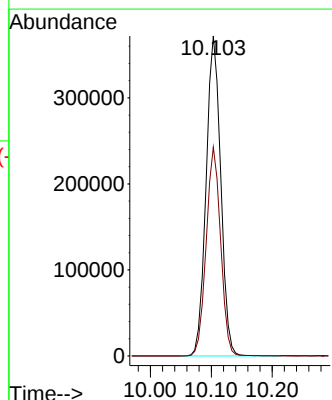
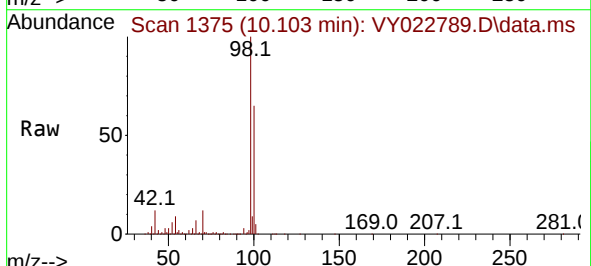
Acq: 24 Jun 2025 11:58

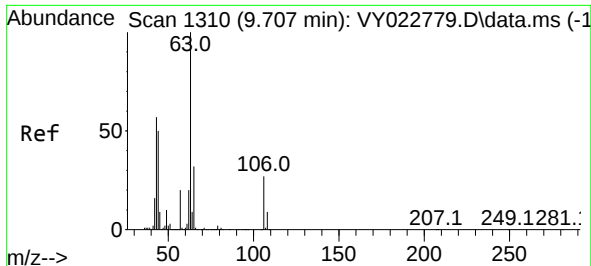
Tgt Ion: 98 Resp: 620472

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0





#58

2-Chloroethyl Vinyl ether

Concen: 15.776 ug/l

RT: 9.725 min Scan# 1313

Delta R.T. 0.012 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

Instrument :

MSVOA_Y

ClientSampleId :

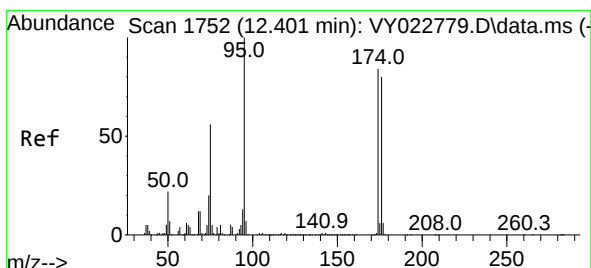
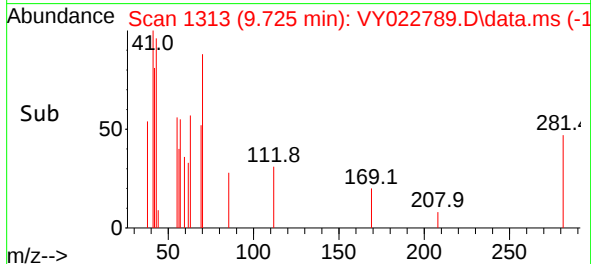
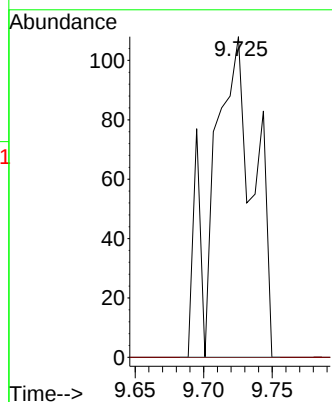
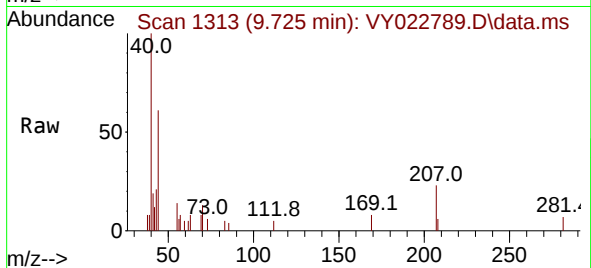
SU-1-062025

Tgt Ion: 63 Resp: 228

Ion Ratio Lower Upper

63 100

106 0.0 21.6 32.4#



#62

4-Bromofluorobenzene

Concen: 43.731 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

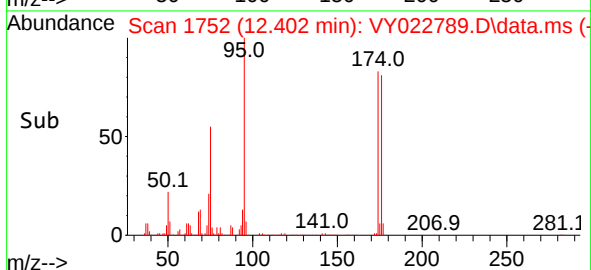
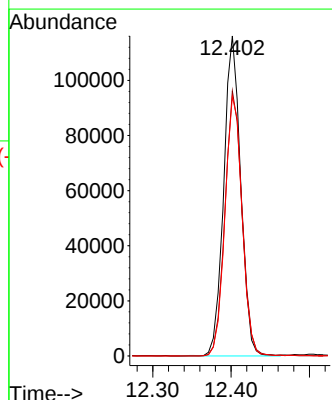
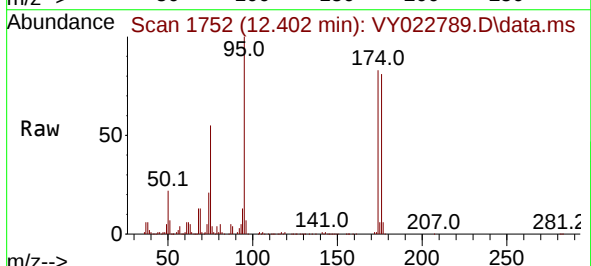
Tgt Ion: 95 Resp: 174748

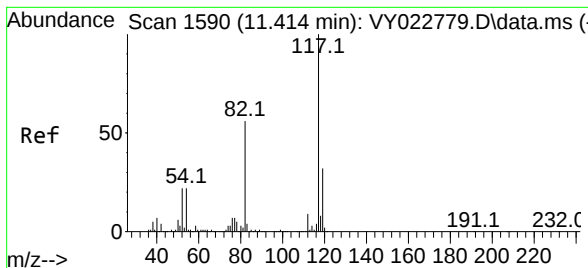
Ion Ratio Lower Upper

95 100

174 83.8 0.0 170.0

176 82.2 0.0 166.2

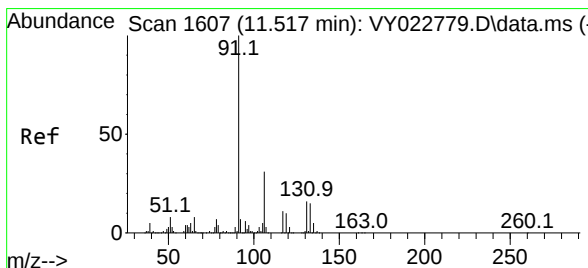
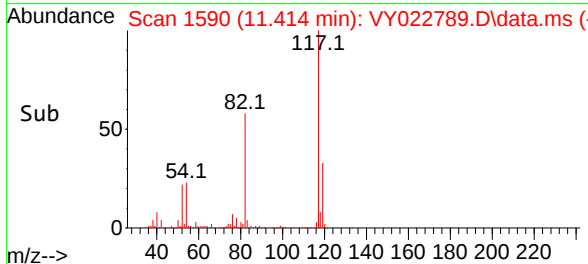
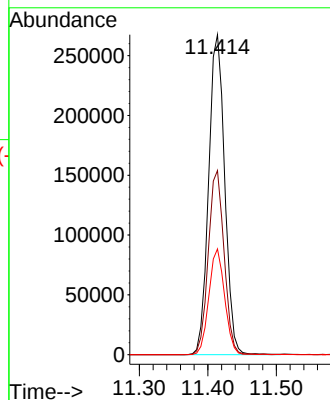
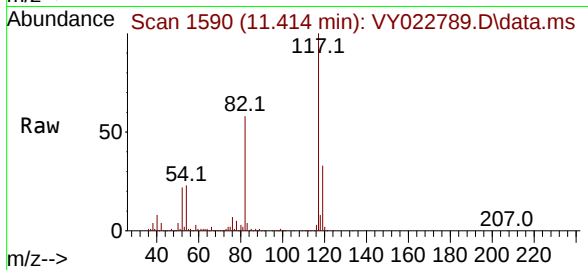




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.006 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

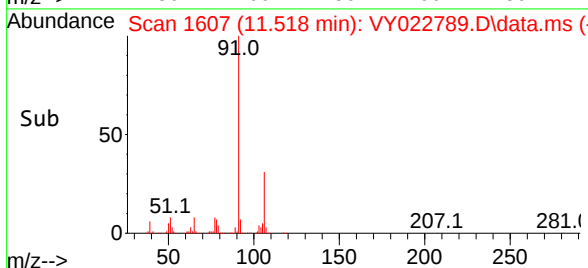
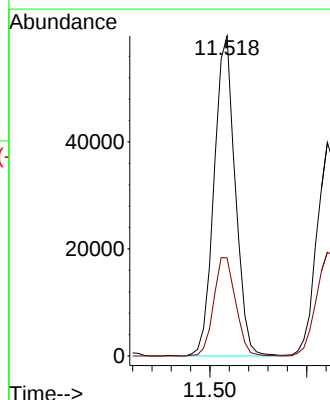
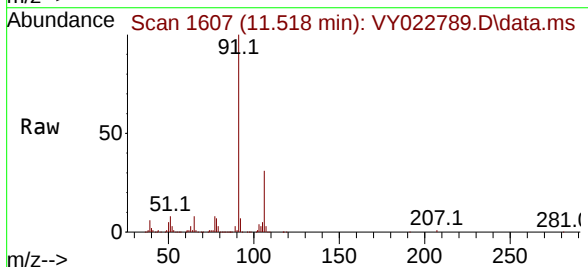
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

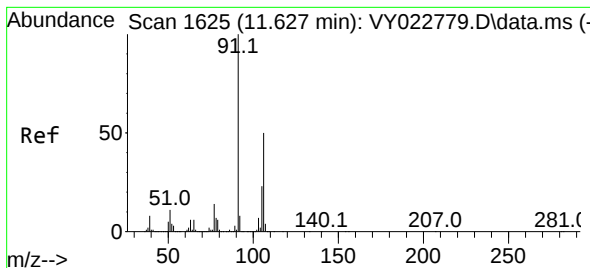
Tgt Ion:117 Resp: 435732
Ion Ratio Lower Upper
117 100
82 57.6 44.6 66.8
119 33.0 25.4 38.0



#67
Ethyl Benzene
Concen: 5.385 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

Tgt Ion: 91 Resp: 90586
Ion Ratio Lower Upper
91 100
106 30.7 24.2 36.4

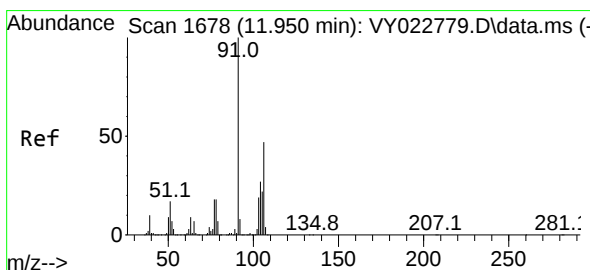
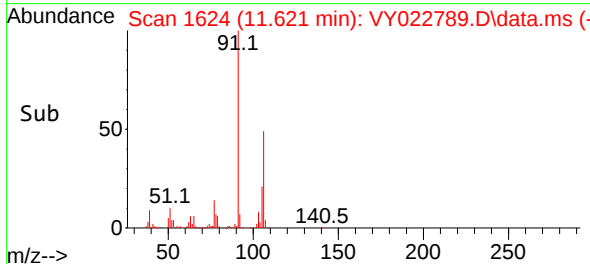
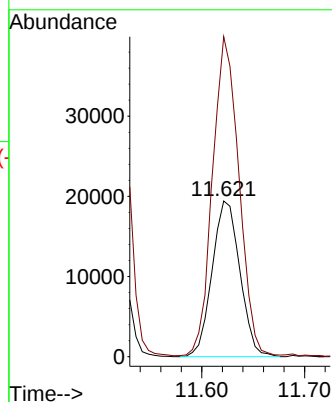
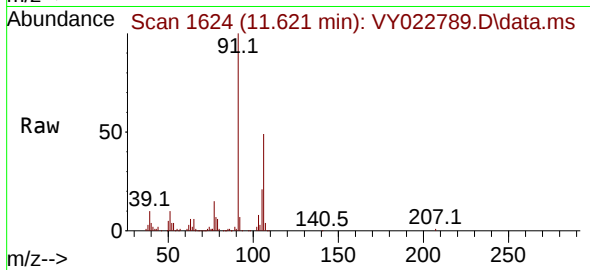




#68
m/p-Xylenes
Concen: 5.599 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

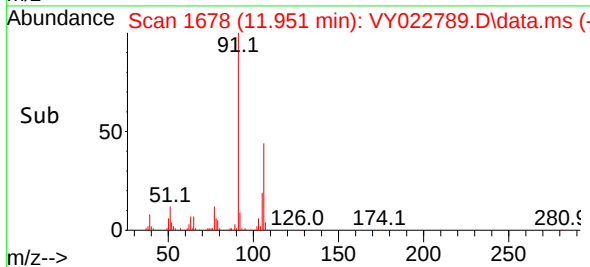
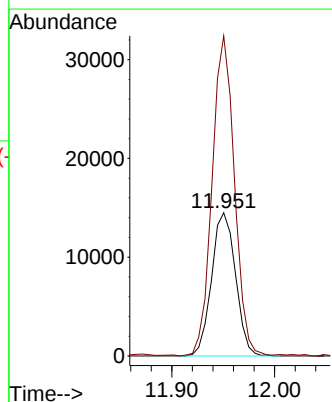
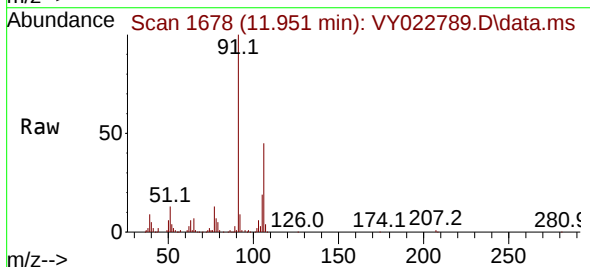
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

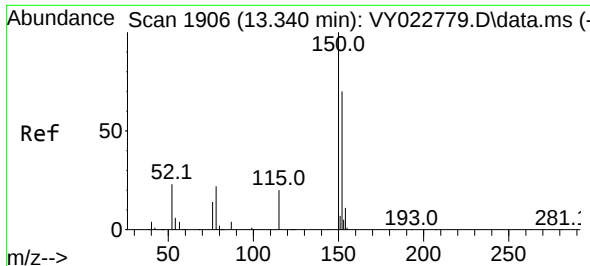
Tgt Ion:106 Resp: 36412
Ion Ratio Lower Upper
106 100
91 195.1 159.4 239.0



#69
o-Xylene
Concen: 3.824 ug/l
RT: 11.951 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

Tgt Ion:106 Resp: 23433
Ion Ratio Lower Upper
106 100
91 208.6 105.8 317.3

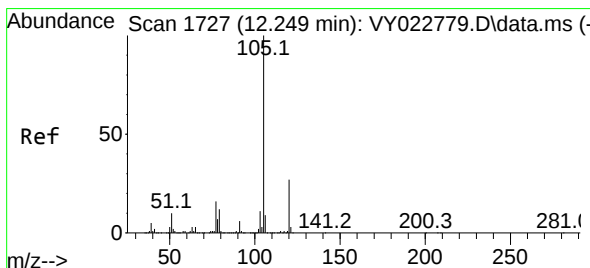
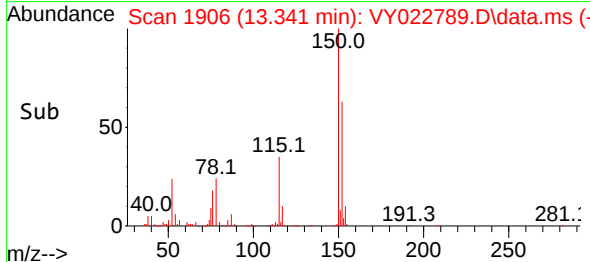
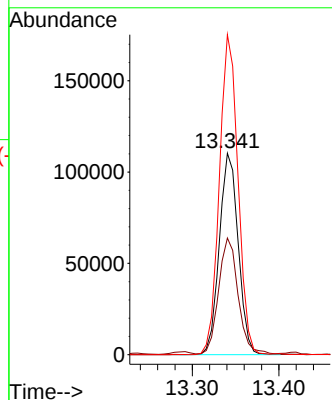
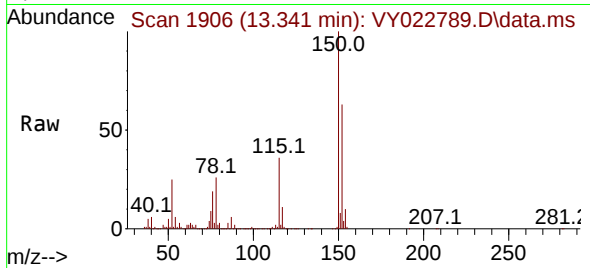




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.341 min Scan# 1906
 Delta R.T. -0.006 min
 Lab File: VY022789.D
 Acq: 24 Jun 2025 11:58

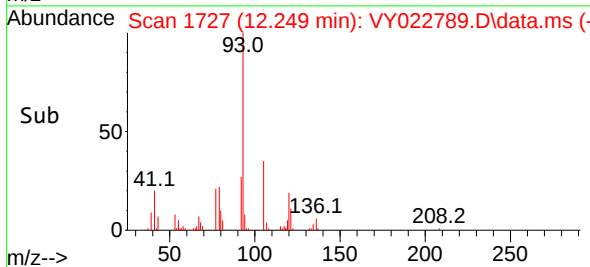
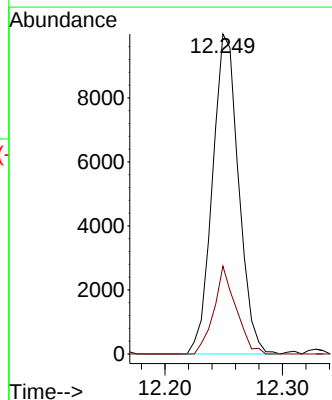
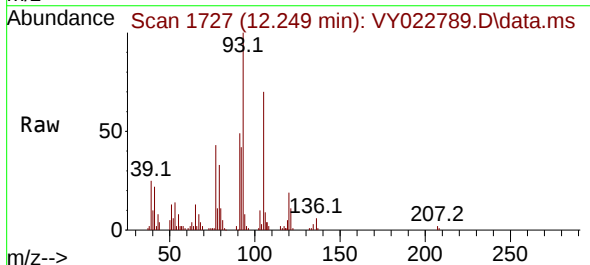
Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-1-062025

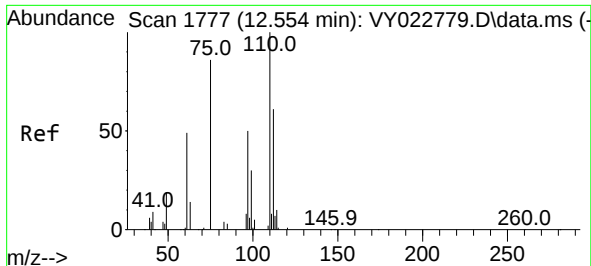
Tgt Ion:152 Resp: 166970
 Ion Ratio Lower Upper
 152 100
 115 58.6 28.9 86.7
 150 156.8 0.0 349.6



#73
 Isopropylbenzene
 Concen: 1.250 ug/l
 RT: 12.249 min Scan# 1727
 Delta R.T. -0.006 min
 Lab File: VY022789.D
 Acq: 24 Jun 2025 11:58

Tgt Ion:105 Resp: 15439
 Ion Ratio Lower Upper
 105 100
 120 23.2 13.0 38.9

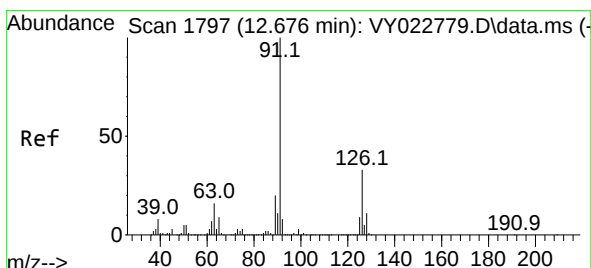
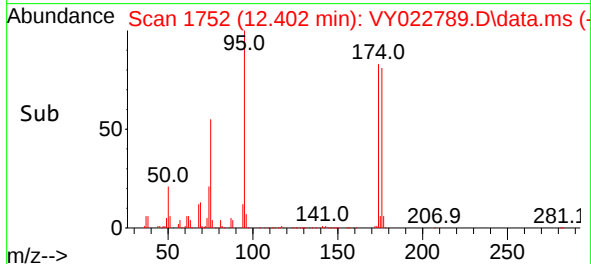
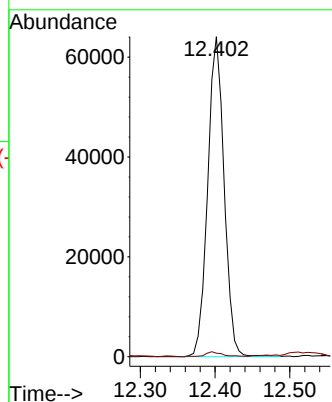
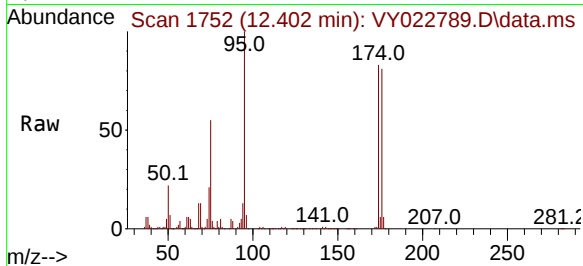




#76
1,2,3-Trichloropropane
Concen: 57.266 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

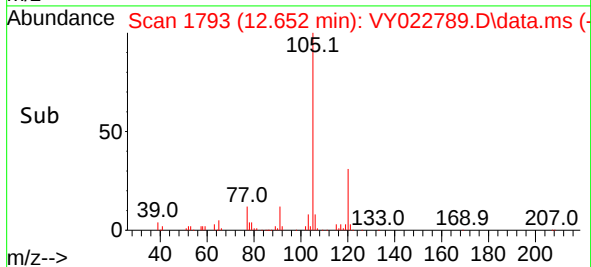
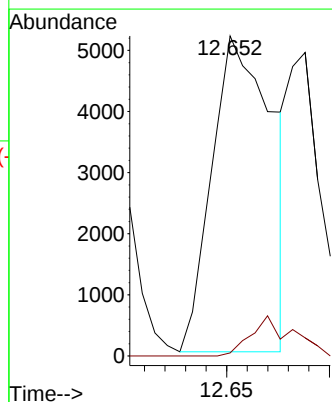
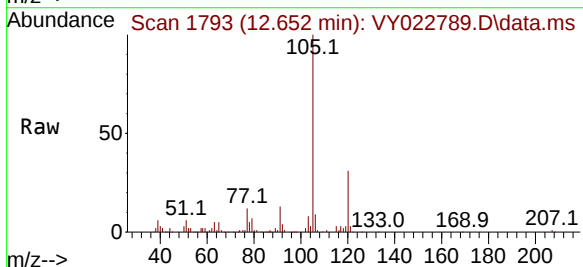
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

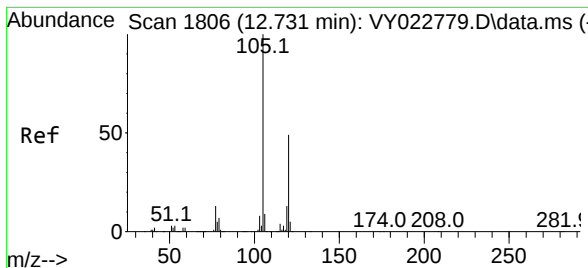
Tgt Ion: 75 Resp: 97617
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#79
2-Chlorotoluene
Concen: 1.246 ug/l
RT: 12.652 min Scan# 1793
Delta R.T. -0.030 min
Lab File: VY022789.D
Acq: 24 Jun 2025 11:58

Tgt Ion: 91 Resp: 10498
Ion Ratio Lower Upper
91 100
126 8.7 17.0 51.0#

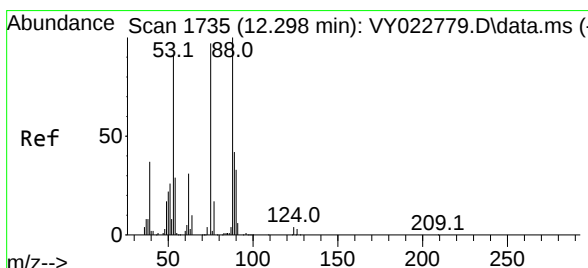
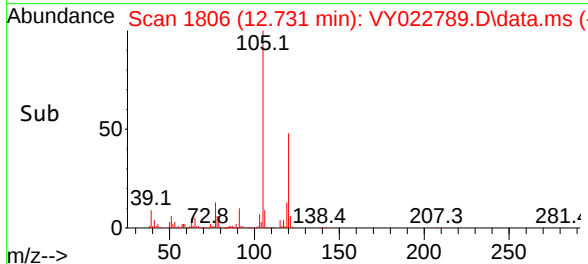
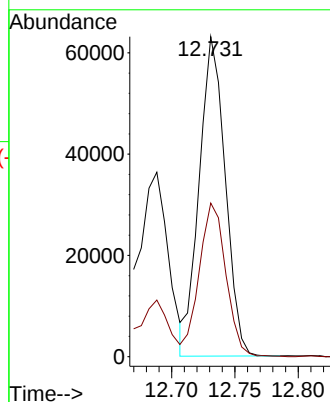
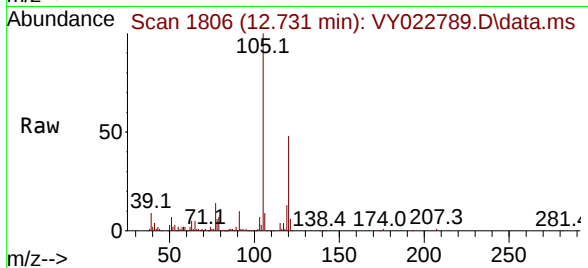




#80
 1,3,5-Trimethylbenzene
 Concen: 9.047 ug/l
 RT: 12.731 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VY022789.D
 Acq: 24 Jun 2025 11:58

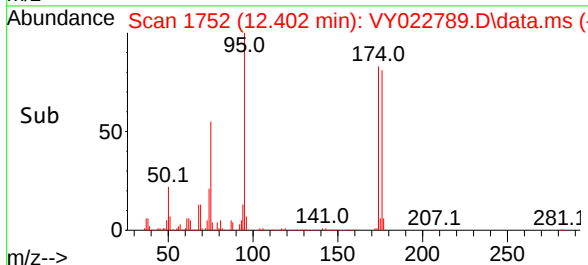
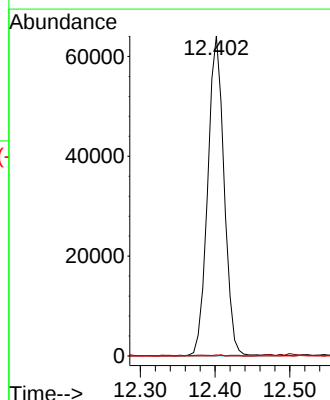
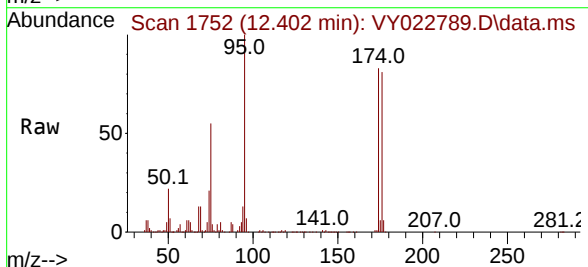
Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-1-062025

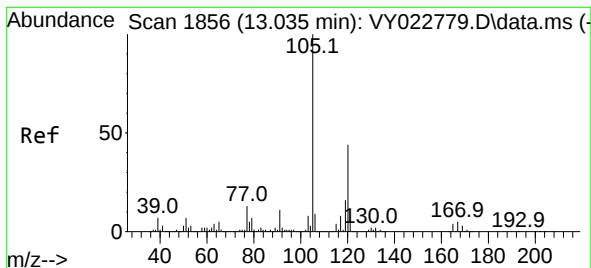
Tgt Ion:105 Resp: 90182
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 144.676 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. 0.098 min
 Lab File: VY022789.D
 Acq: 24 Jun 2025 11:58

Tgt Ion: 75 Resp: 97617
 Ion Ratio Lower Upper
 75 100
 53 0.4 78.5 117.7#
 89 0.1 35.7 53.5#





#84

1,2,4-Trimethylbenzene

Concen: 16.769 ug/l

RT: 13.042 min Scan# 1856

Delta R.T. 0.000 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

Instrument :

MSVOA_Y

ClientSampleId :

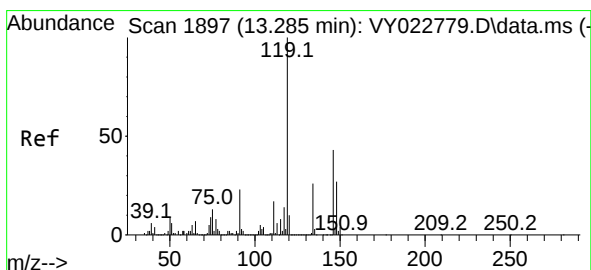
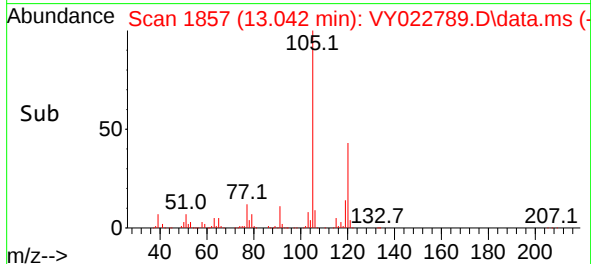
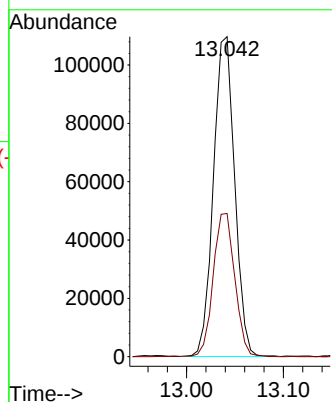
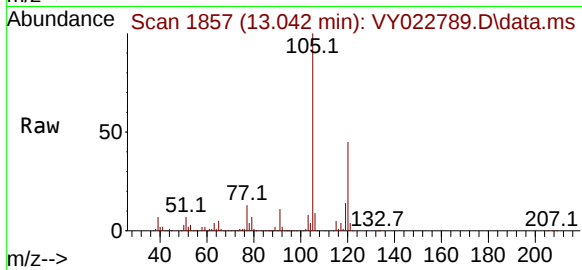
SU-1-062025

Tgt Ion:105 Resp: 167356

Ion Ratio Lower Upper

105 100

120 45.5 22.7 68.1



#86

p-Isopropyltoluene

Concen: 2.802 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. -0.006 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

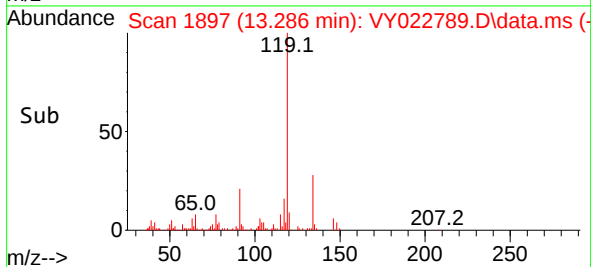
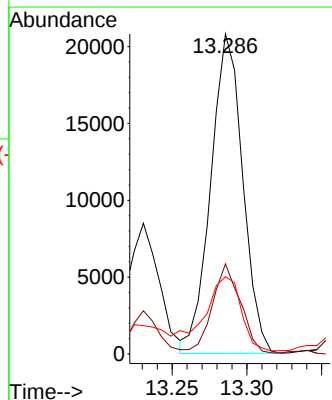
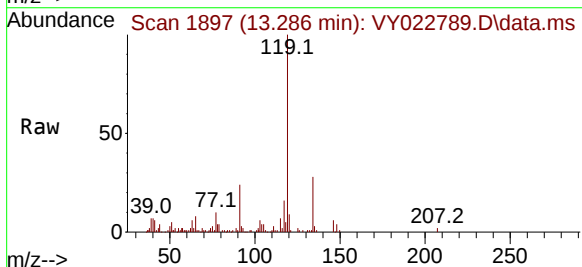
Tgt Ion:119 Resp: 30847

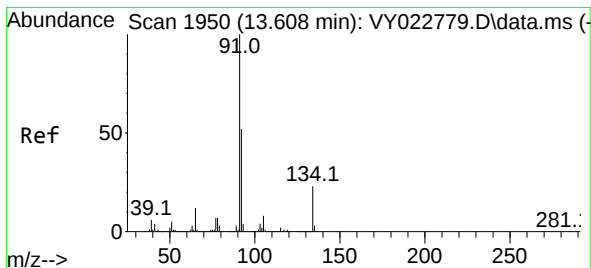
Ion Ratio Lower Upper

119 100

134 24.4 13.1 39.1

91 0.0 11.6 34.8#





#89

n-Butylbenzene

Concen: 32.440 ug/l

RT: 13.542 min Scan# 1950

Delta R.T. -0.079 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

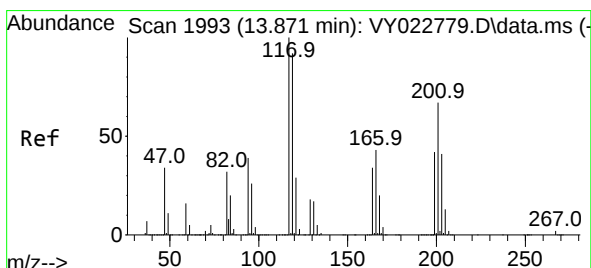
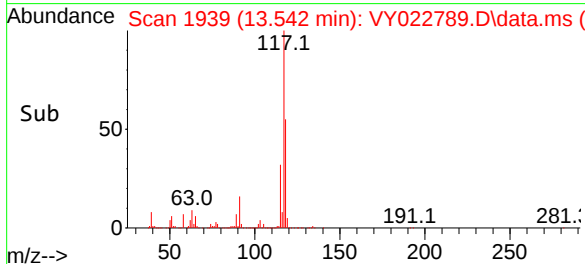
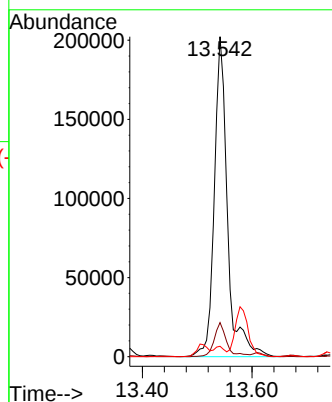
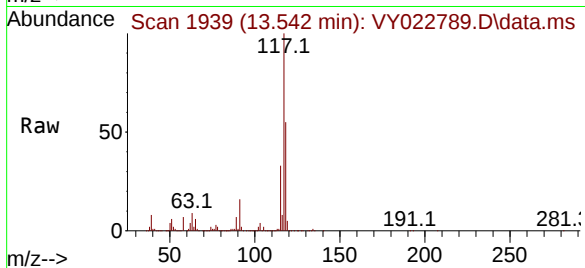
Tgt Ion: 91 Resp: 335893

Ion Ratio Lower Upper

91 100

92 10.1 25.9 77.8#

134 1.0 12.0 36.1#



#90

Hexachloroethane

Concen: 72.094 ug/l

RT: 13.944 min Scan# 2005

Delta R.T. 0.061 min

Lab File: VY022789.D

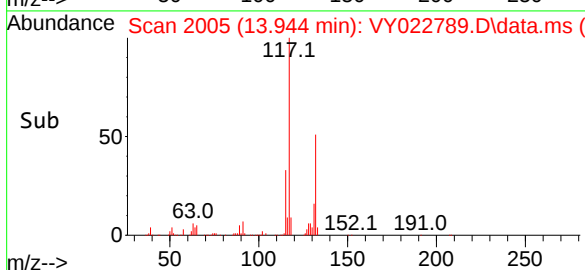
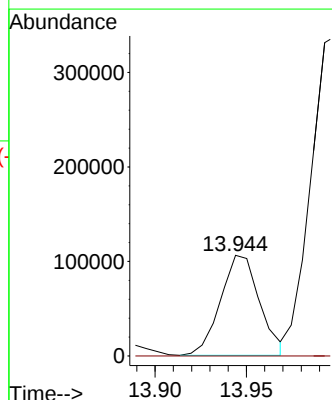
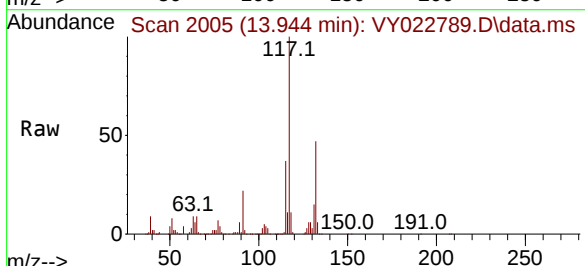
Acq: 24 Jun 2025 11:58

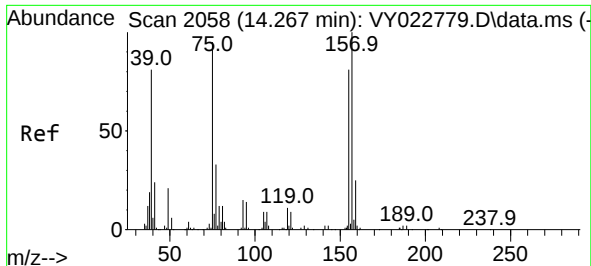
Tgt Ion: 117 Resp: 158057

Ion Ratio Lower Upper

117 100

201 0.0 34.0 102.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 10.486 ug/l

RT: 14.292 min Scan# 2062

Delta R.T. 0.018 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

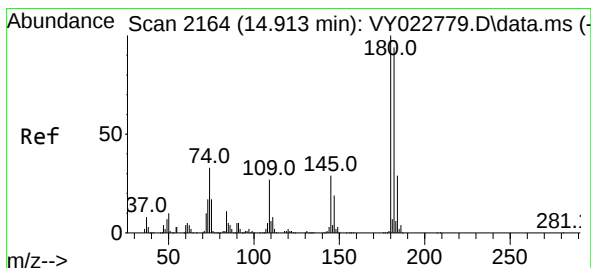
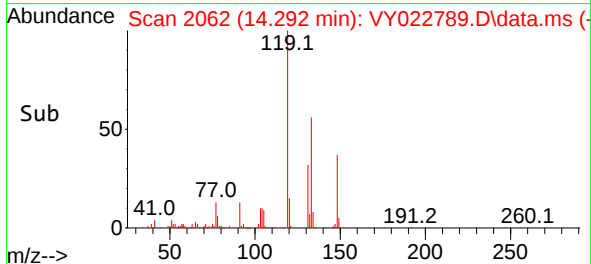
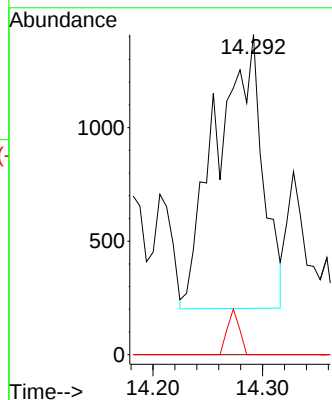
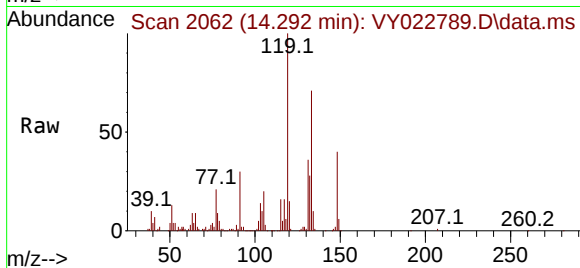
Tgt Ion: 75 Resp: 3539

Ion Ratio Lower Upper

75 100

155 0.0 39.9 119.6#

157 4.3 54.0 162.0#



#93

1,2,4-Trichlorobenzene

Concen: 1.099 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

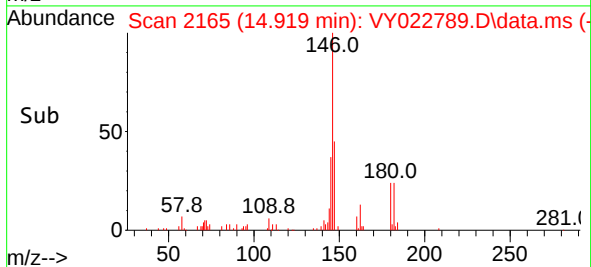
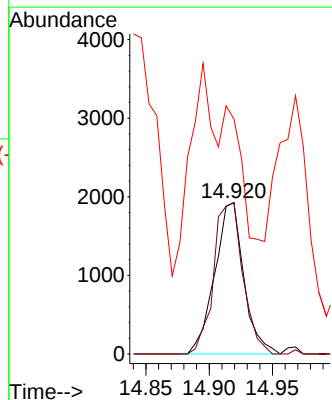
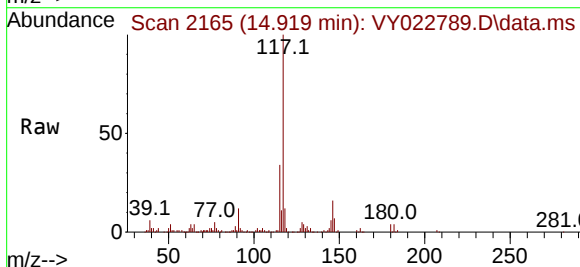
Tgt Ion: 180 Resp: 3075

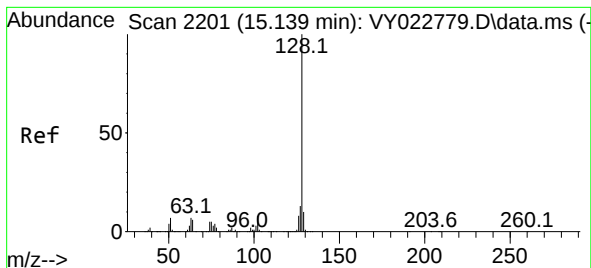
Ion Ratio Lower Upper

180 100

182 100.7 48.4 145.3

145 0.0 15.5 46.5#





#95

Naphthalene

Concen: 83.849 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

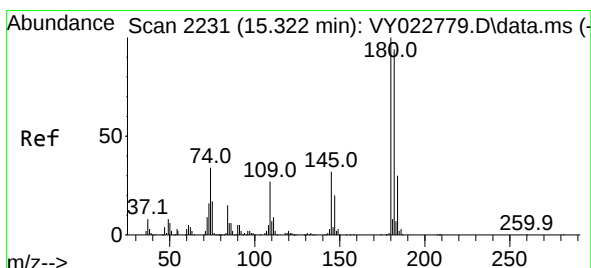
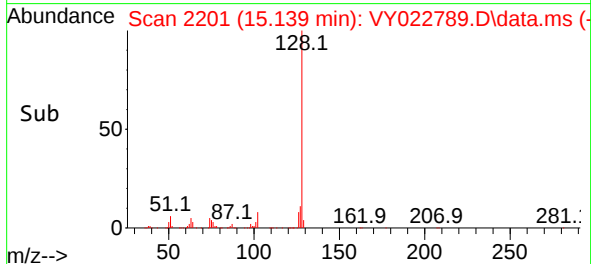
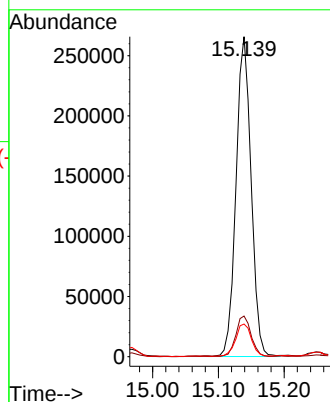
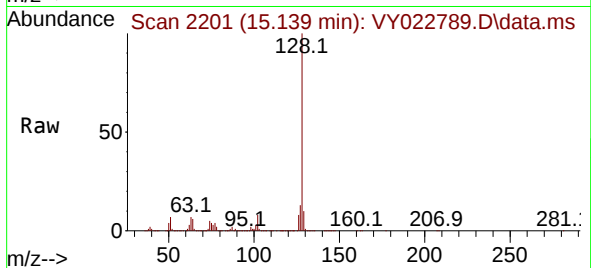
Tgt Ion:128 Resp: 424101

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

129 10.4 8.9 13.3



#96

1,2,3-Trichlorobenzene

Concen: 1.234 ug/l

RT: 15.328 min Scan# 2232

Delta R.T. 0.000 min

Lab File: VY022789.D

Acq: 24 Jun 2025 11:58

Tgt Ion:180 Resp: 2983

Ion Ratio Lower Upper

180 100

182 96.4 47.1 141.3

145 0.0 15.2 45.6#

