

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
 Data File : VY022818.D
 Acq On : 25 Jun 2025 12:35
 Operator : SY/MD
 Sample : Q2355-03
 Misc : 3.55g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 20071

Quant Time: Jun 25 16:00:28 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	7.707	168	263774	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	415129	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	135041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	33642	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	121002	41.101	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	82.200%
35) Dibromofluoromethane	7.628	113	131829	52.217	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	104.440%
50) Toluene-d8	10.103	98	308749	30.819	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	61.640%
62) 4-Bromofluorobenzene	12.401	95	34938	10.849	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	21.700%#

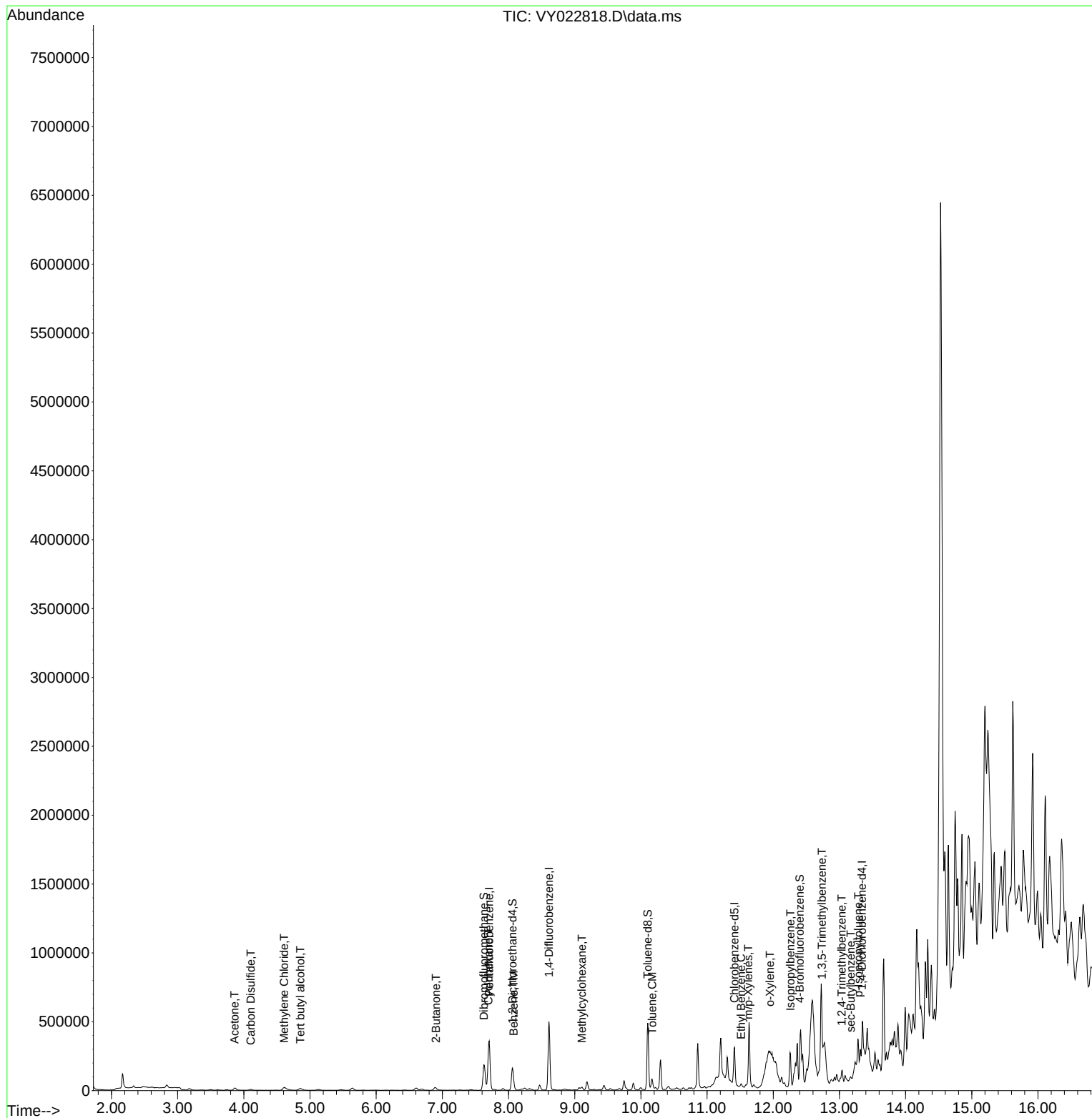
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	25042	127.926	ug/l	97
16) Acetone	3.860	43	28014	50.345	ug/l	97
17) Carbon Disulfide	4.104	76	11693	1.356	ug/l	99
20) Methylene Chloride	4.610	84	13344	3.797	ug/l #	93
25) 2-Butanone	6.902	43	15680	19.362	ug/l	100
31) Cyclohexane	7.695	56	10879	2.151	ug/l #	56
39) Methylcyclohexane	9.109	83	6887	1.391	ug/l	92
40) Benzene	8.079	78	14159	1.203	ug/l	98
52) Toluene	10.170	92	32406	4.366	ug/l	99
67) Ethyl Benzene	11.511	91	14716	2.823	ug/l	97
68) m/p-Xylenes	11.621	106	11260	5.587	ug/l	93
69) o-Xylene	11.950	106	4941	2.602	ug/l	93
73) Isopropylbenzene	12.261	105	13835	5.561	ug/l #	73
80) 1,3,5-Trimethylbenzene	12.737	105	8581	4.272	ug/l	93
84) 1,2,4-Trimethylbenzene	13.036	105	47483	23.613	ug/l	97
85) sec-Butylbenzene	13.170	105	7569	2.840	ug/l #	73
86) p-Isopropyltoluene	13.285	119	10031	4.523	ug/l	96

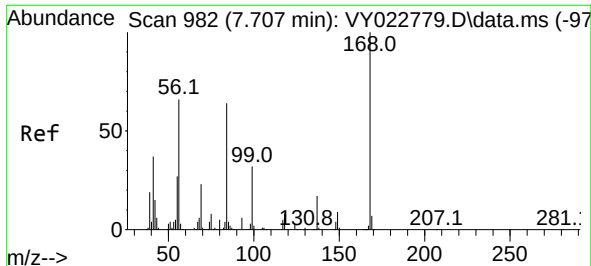
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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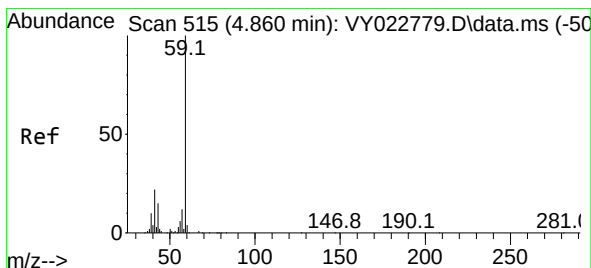
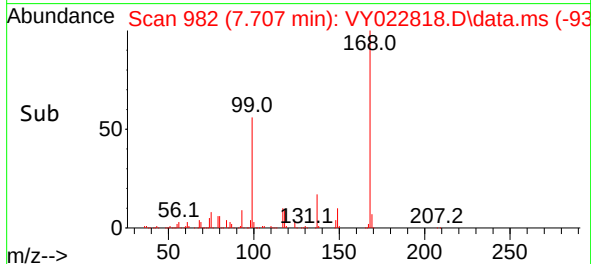
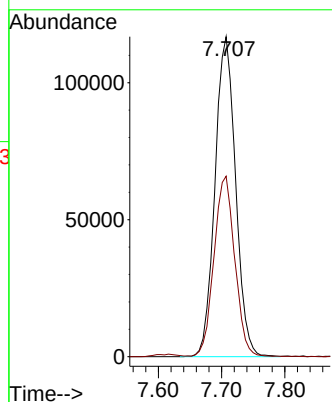
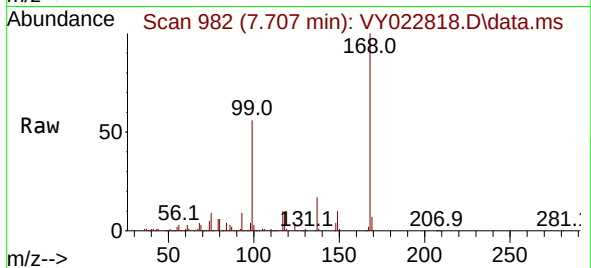




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

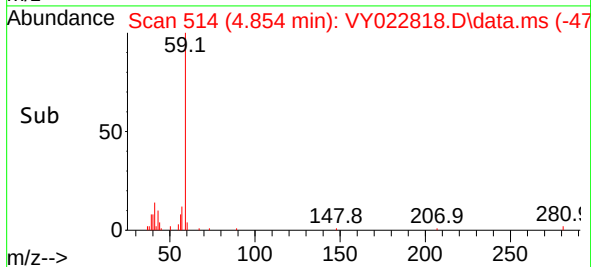
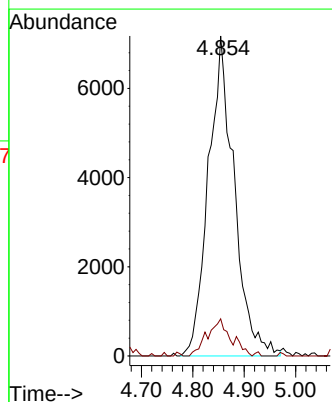
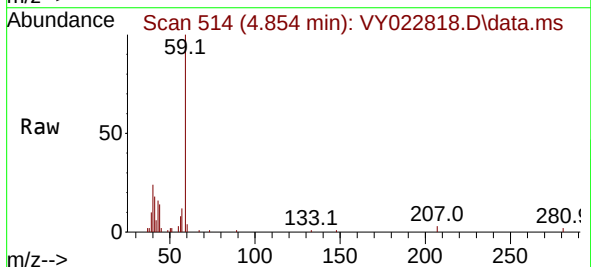
Instrument :
MSVOA_Y
ClientSampleId :
20071

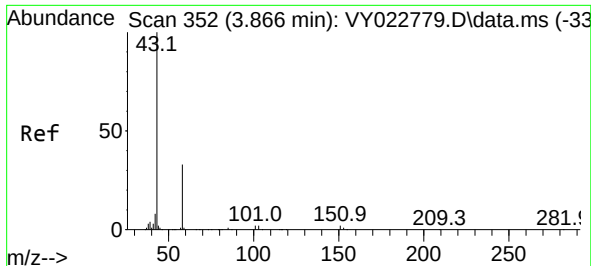
Tgt Ion:168 Resp: 263774
Ion Ratio Lower Upper
168 100
99 56.3 44.3 66.5



#11
Tert butyl alcohol
Concen: 127.926 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.031 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

Tgt Ion: 59 Resp: 25042
Ion Ratio Lower Upper
59 100
57 9.0 8.0 12.0

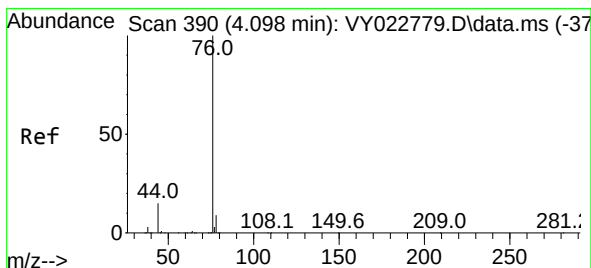
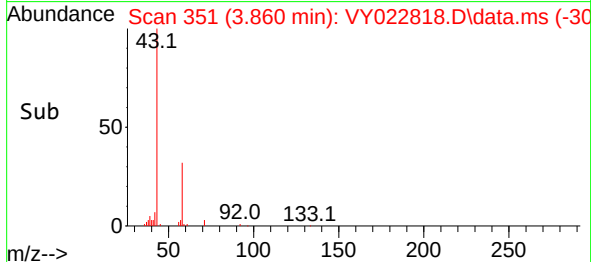
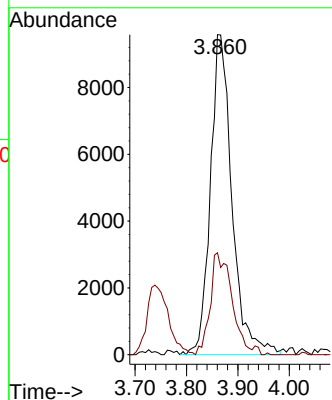
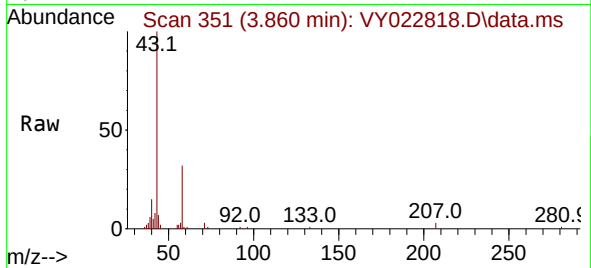




#16
Acetone
Concen: 50.345 ug/l
RT: 3.860 min Scan# 311
Delta R.T. -0.018 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

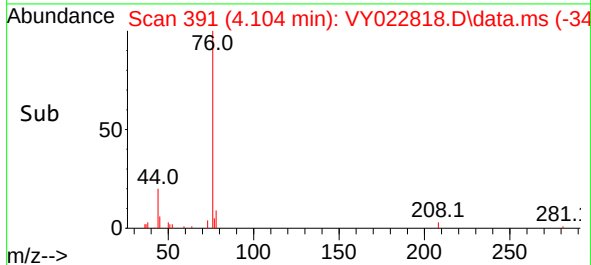
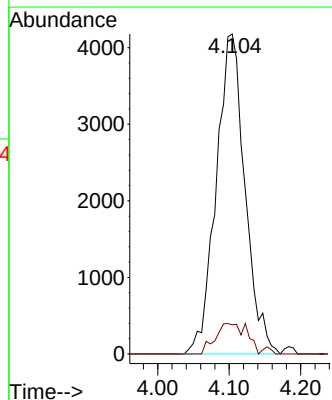
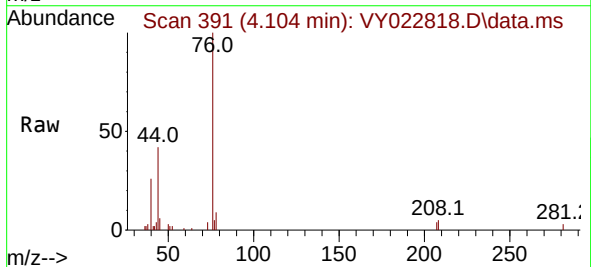
Instrument :
MSVOA_Y
ClientSampleId :
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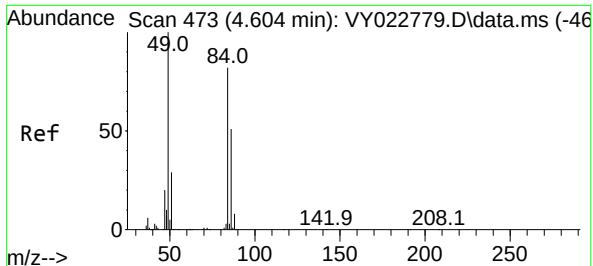
Tgt Ion: 43 Resp: 28014
Ion Ratio Lower Upper
43 100
58 31.9 24.0 36.0



#17
Carbon Disulfide
Concen: 1.356 ug/l
RT: 4.104 min Scan# 391
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

Tgt Ion: 76 Resp: 11693
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.2

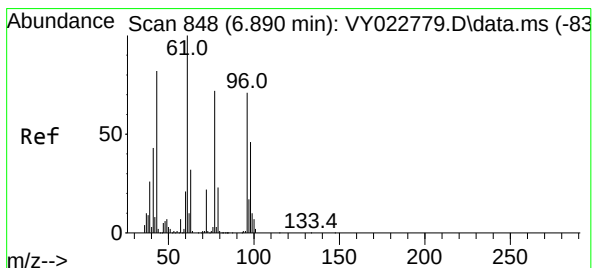
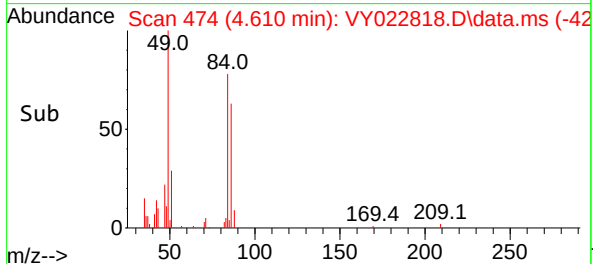
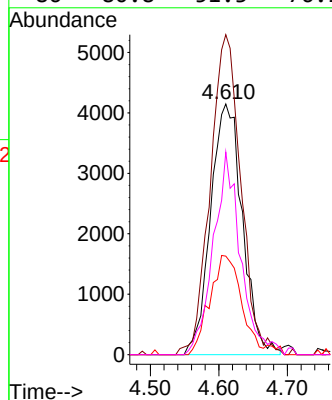
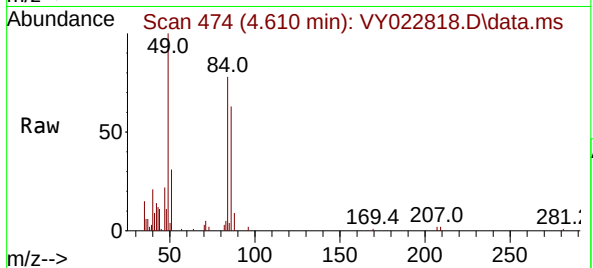




#20
Methylene Chloride
Concen: 3.797 ug/l
RT: 4.610 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

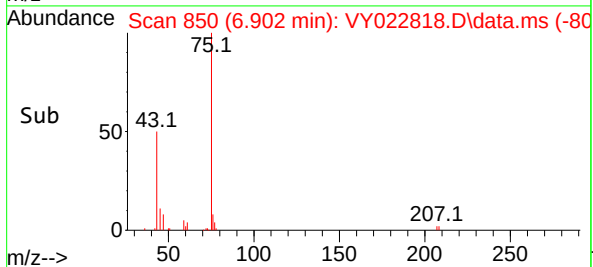
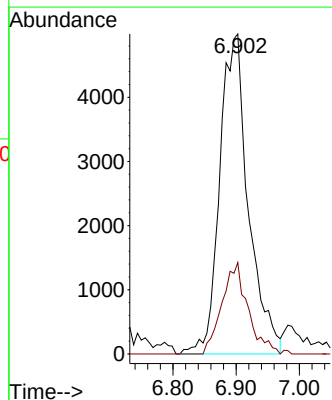
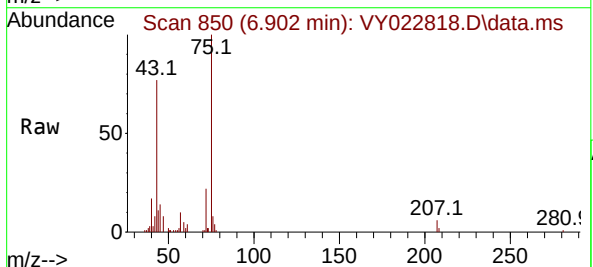
Instrument :
MSVOA_Y
ClientSampleId :
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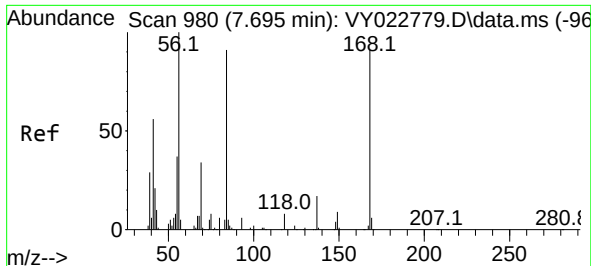
Tgt Ion: 84 Resp: 13344
Ion Ratio Lower Upper
84 100
49 126.0 101.9 152.9
51 39.3 29.8 44.8
86 80.8 51.3 76.9#



#25
2-Butanone
Concen: 19.362 ug/l
RT: 6.902 min Scan# 850
Delta R.T. -0.000 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

Tgt Ion: 43 Resp: 15680
Ion Ratio Lower Upper
43 100
72 28.5 22.9 34.3

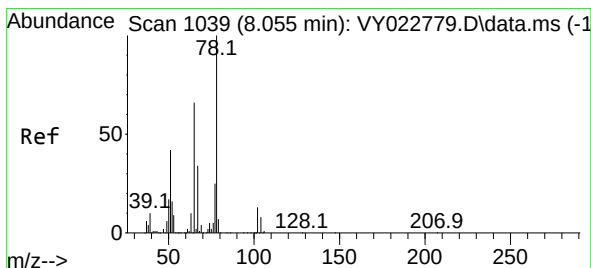
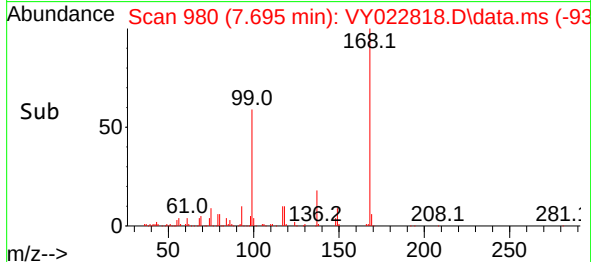
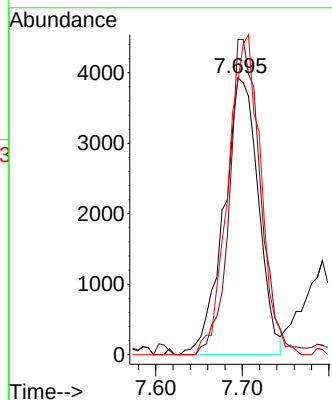
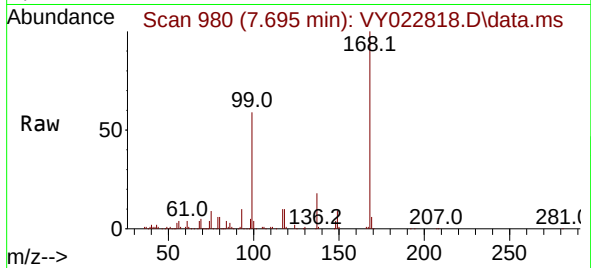




#31
Cyclohexane
Concen: 2.151 ug/l
RT: 7.695 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

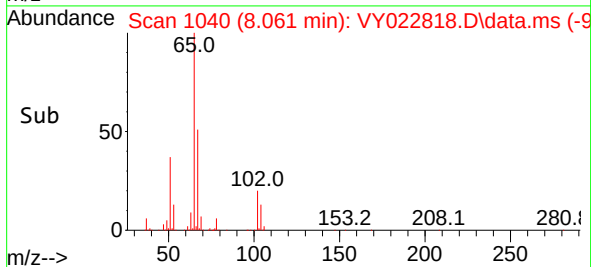
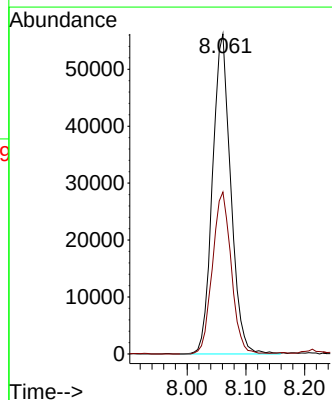
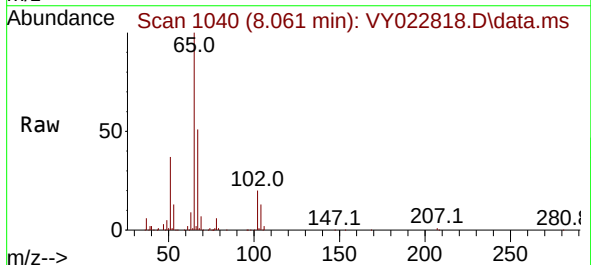
Instrument :
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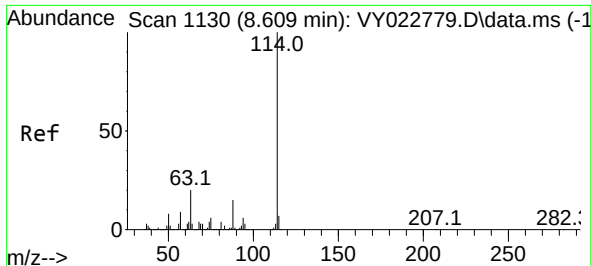
Tgt Ion: 56 Resp: 10879
Ion Ratio Lower Upper
56 100
69 113.9 27.0 40.6#
84 98.9 72.6 109.0



#33
1,2-Dichloroethane-d4
Concen: 41.101 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

Tgt Ion: 65 Resp: 121002
Ion Ratio Lower Upper
65 100
67 52.1 0.0 103.4

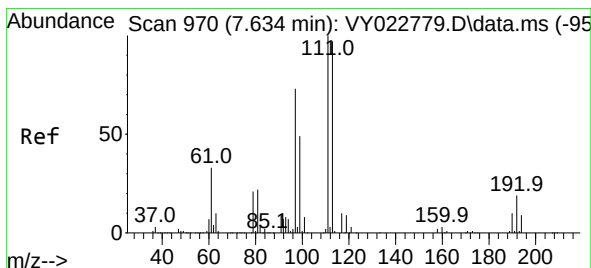
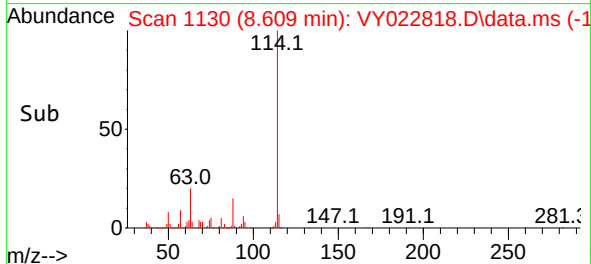
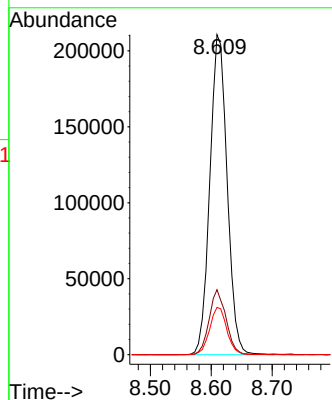
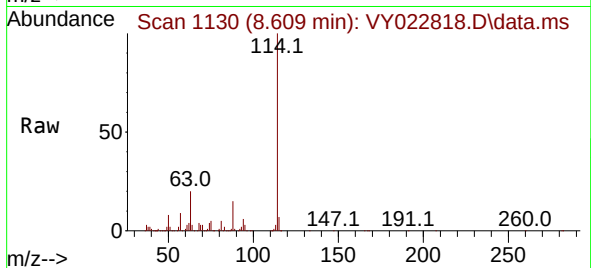




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

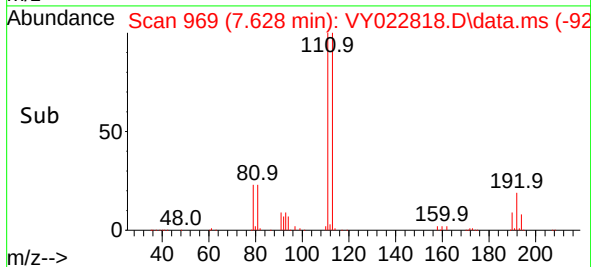
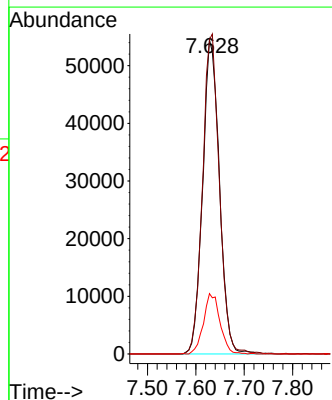
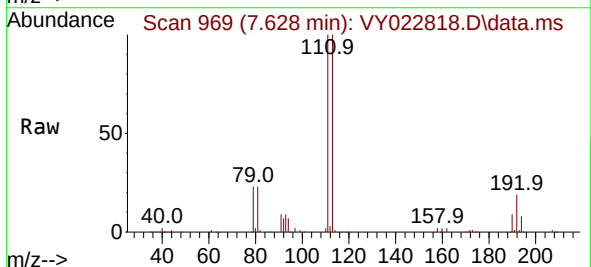
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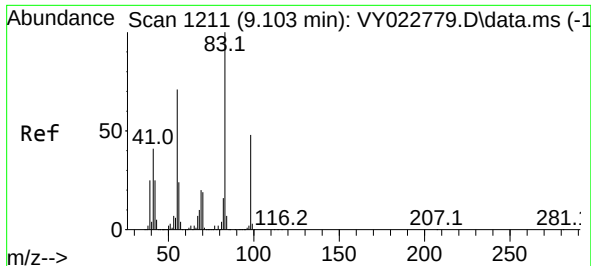
Tgt Ion:114 Resp: 415129
Ion Ratio Lower Upper
114 100
63 20.3 0.0 40.8
88 14.7 0.0 27.8



#35
Dibromofluoromethane
Concen: 52.217 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.012 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

Tgt Ion:113 Resp: 131829
Ion Ratio Lower Upper
113 100
111 101.6 81.1 121.7
192 18.9 14.2 21.2





#39

Methylcyclohexane

Concen: 1.391 ug/l

RT: 9.109 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022818.D

Acq: 25 Jun 2025 12:35

Instrument :

MSVOA_Y

ClientSampleId :

20071

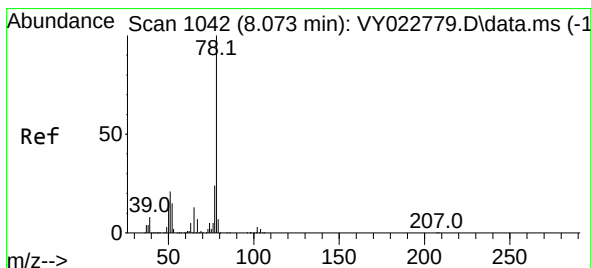
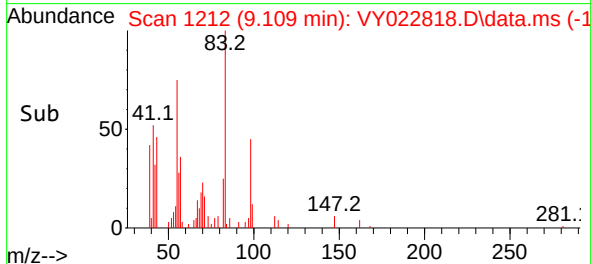
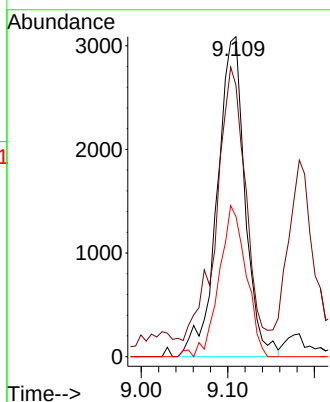
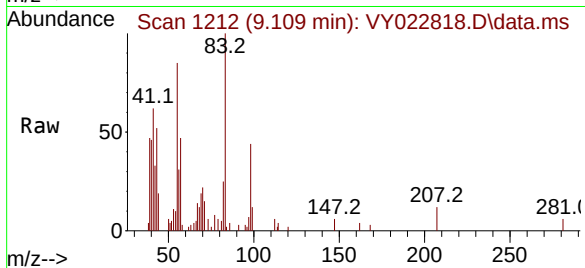
Tgt Ion: 83 Resp: 6887

Ion Ratio Lower Upper

83 100

55 79.1 58.1 87.1

98 43.8 39.0 58.6



#40

Benzene

Concen: 1.203 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. -0.006 min

Lab File: VY022818.D

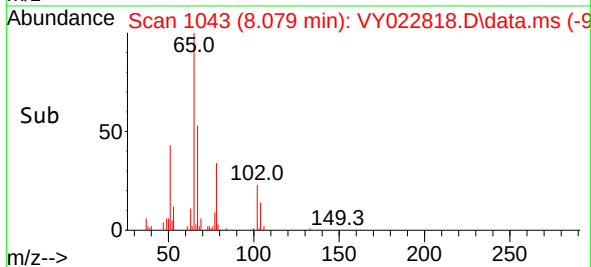
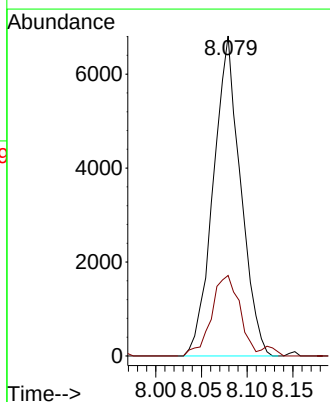
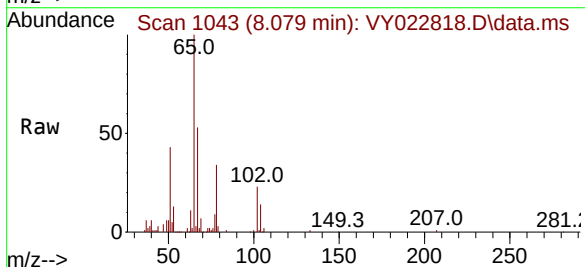
Acq: 25 Jun 2025 12:35

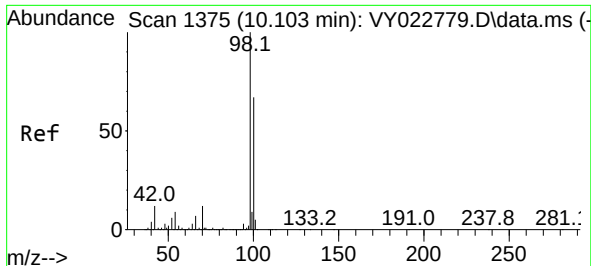
Tgt Ion: 78 Resp: 14159

Ion Ratio Lower Upper

78 100

77 25.2 19.3 28.9

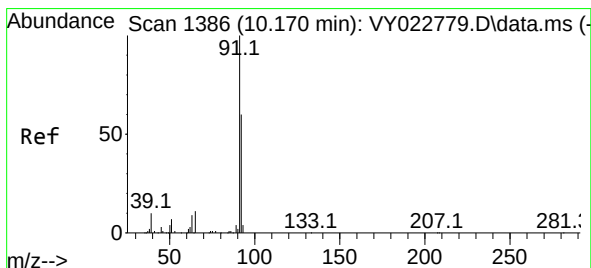
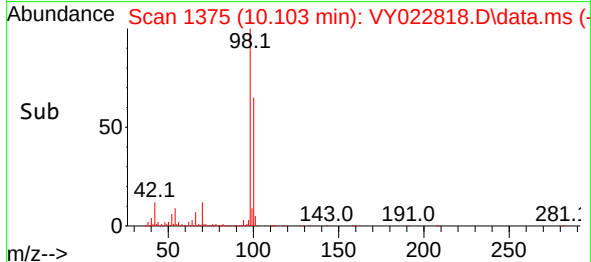
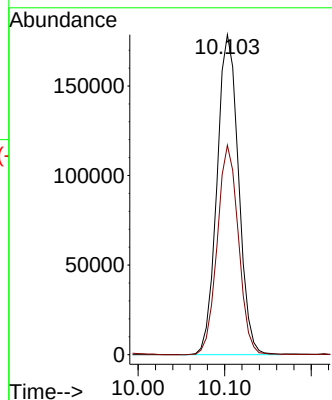
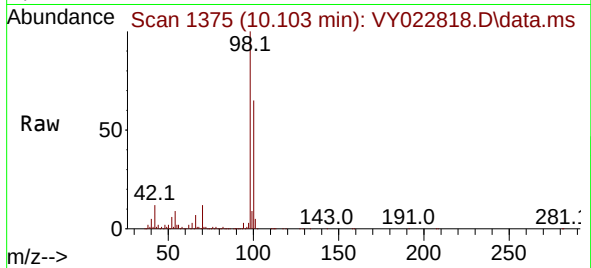




#50
Toluene-d8
Concen: 30.819 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

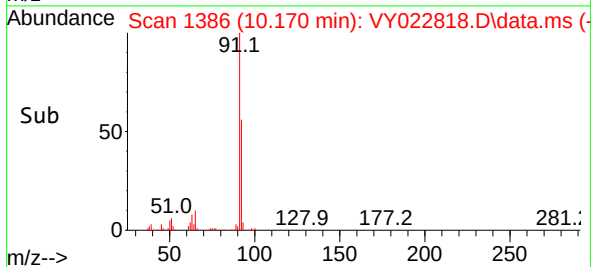
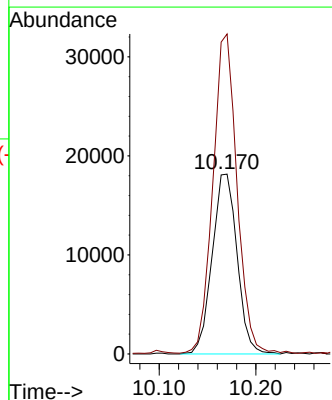
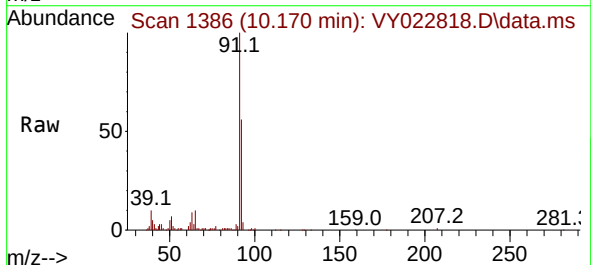
Instrument :
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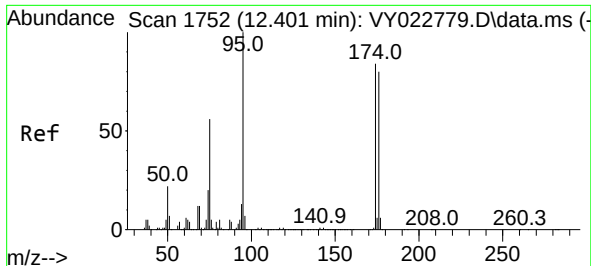
Tgt Ion: 98 Resp: 308749
Ion Ratio Lower Upper
98 100
100 64.3 51.4 77.0



#52
Toluene
Concen: 4.366 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

Tgt Ion: 92 Resp: 32406
Ion Ratio Lower Upper
92 100
91 171.7 139.0 208.4

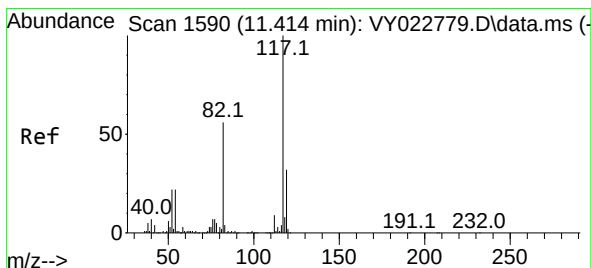
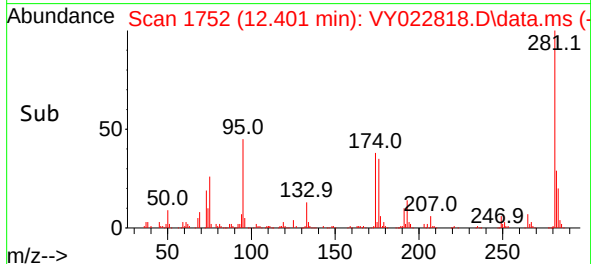
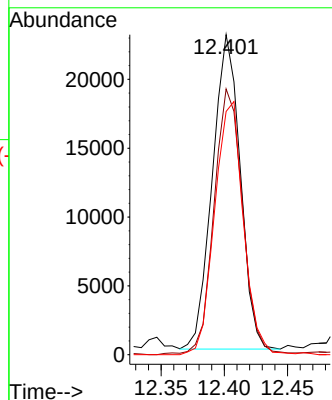
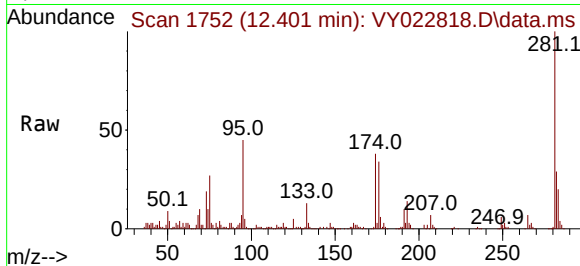




#62
4-Bromofluorobenzene
Concen: 10.849 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

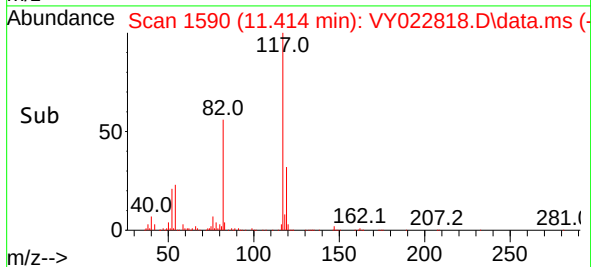
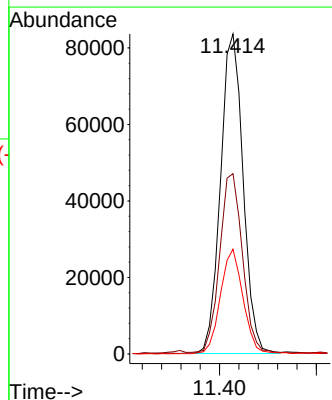
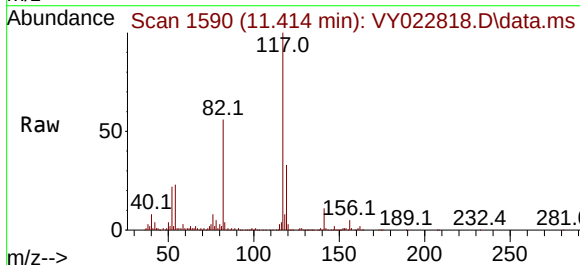
Instrument :
MSVOA_Y
ClientSampleId :
20071

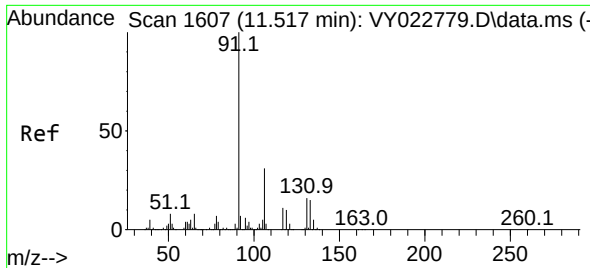
Tgt Ion: 95 Resp: 34938
Ion Ratio Lower Upper
95 100
174 86.9 0.0 170.0
176 83.4 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

Tgt Ion: 117 Resp: 135041
Ion Ratio Lower Upper
117 100
82 55.9 44.6 66.8
119 32.7 25.4 38.0





#67

Ethyl Benzene

Concen: 2.823 ug/l

RT: 11.511 min Scan# 1606

Delta R.T. -0.006 min

Lab File: VY022818.D

Acq: 25 Jun 2025 12:35

Instrument :

MSVOA_Y

ClientSampleId :

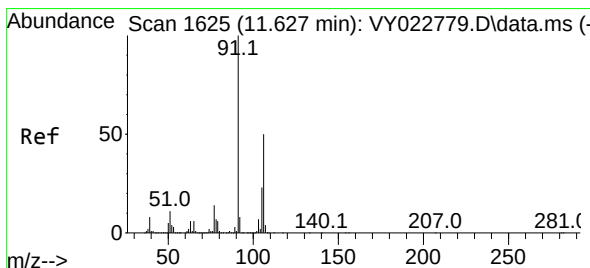
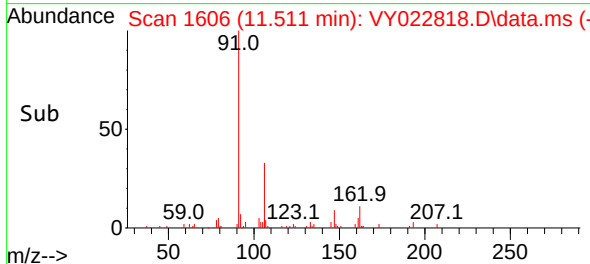
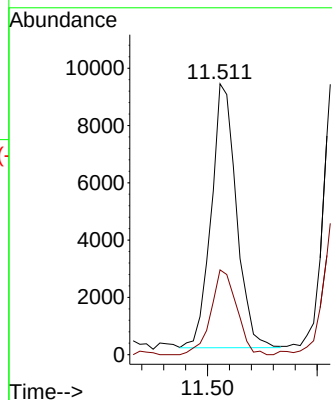
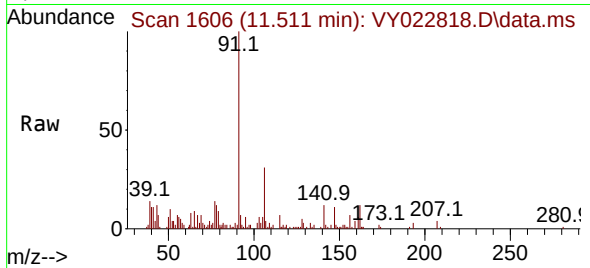
20071

Tgt Ion: 91 Resp: 14716

Ion Ratio Lower Upper

91 100

106 32.2 24.2 36.4



#68

m/p-Xylenes

Concen: 5.587 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.012 min

Lab File: VY022818.D

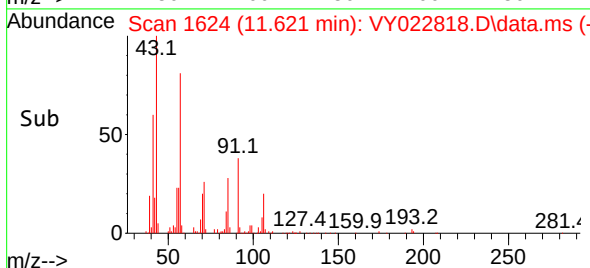
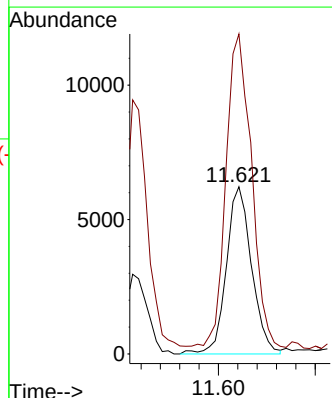
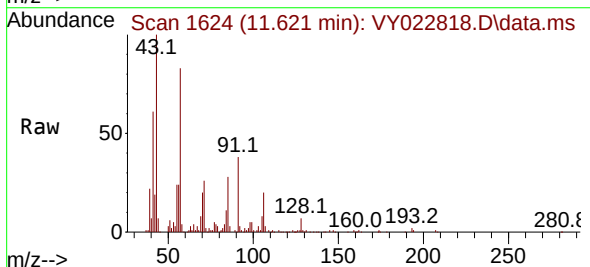
Acq: 25 Jun 2025 12:35

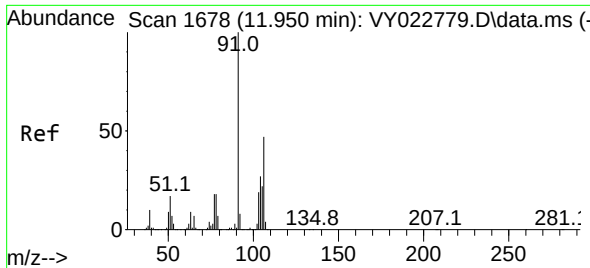
Tgt Ion: 106 Resp: 11260

Ion Ratio Lower Upper

106 100

91 189.2 159.4 239.0

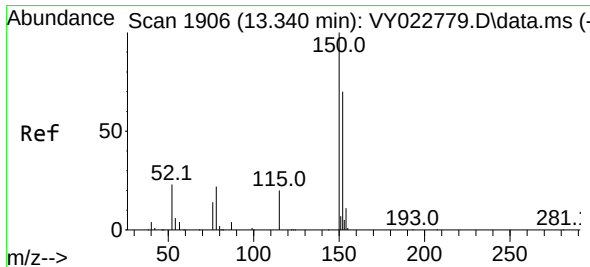
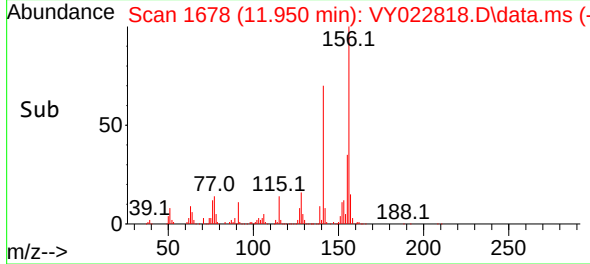
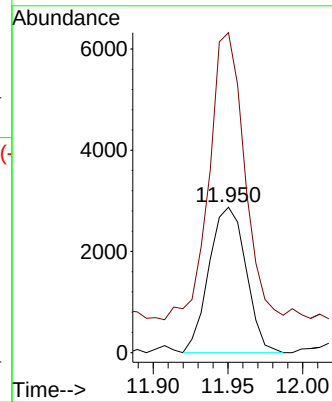
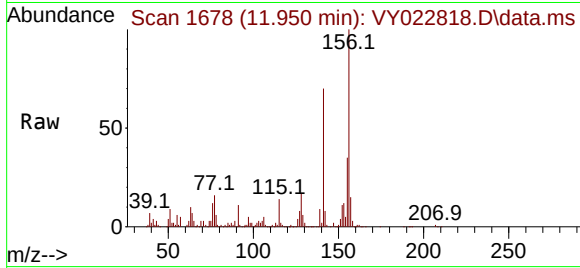




#69
o-Xylene
Concen: 2.602 ug/l
RT: 11.950 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

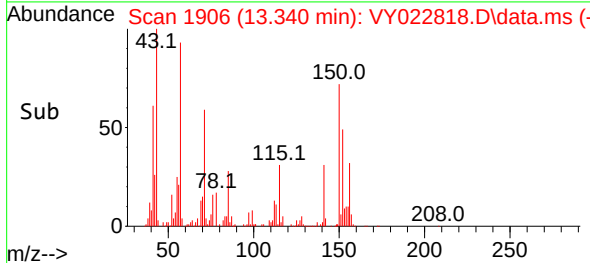
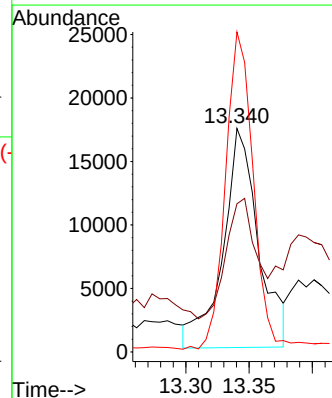
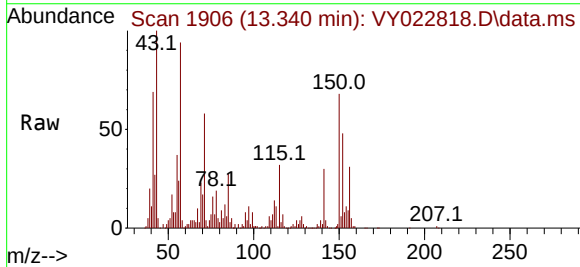
Instrument :
MSVOA_Y
ClientSampleId :
20071

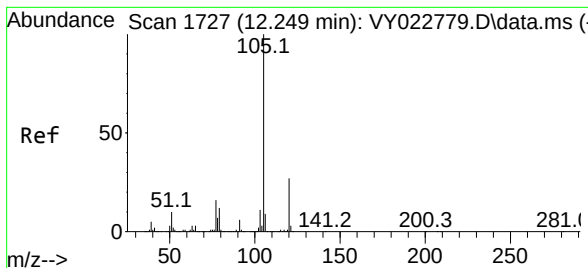
Tgt Ion:106 Resp: 4941
Ion Ratio Lower Upper
106 100
91 200.7 105.8 317.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY022818.D
Acq: 25 Jun 2025 12:35

Tgt Ion:152 Resp: 33642
Ion Ratio Lower Upper
152 100
115 70.0 28.9 86.7
150 117.6 0.0 349.6





#73

Isopropylbenzene

Concen: 5.561 ug/l

RT: 12.261 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022818.D

Acq: 25 Jun 2025 12:35

Instrument :

MSVOA_Y

ClientSampleId :

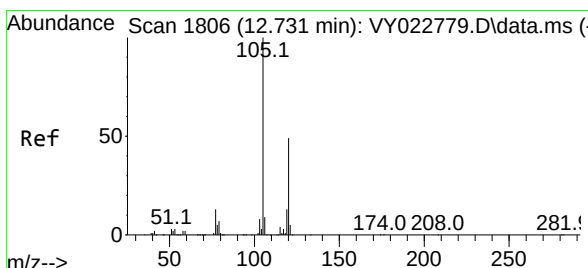
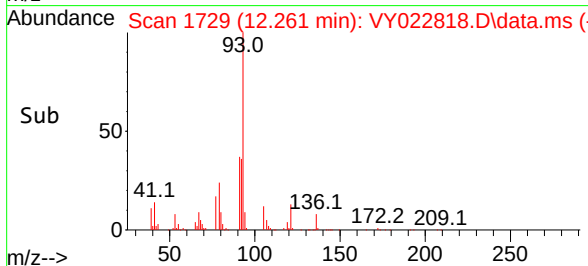
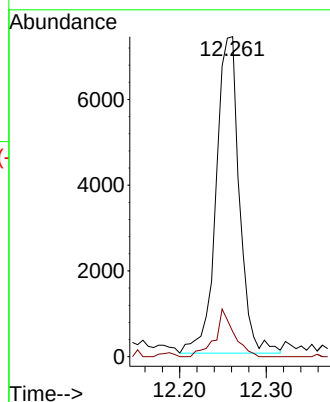
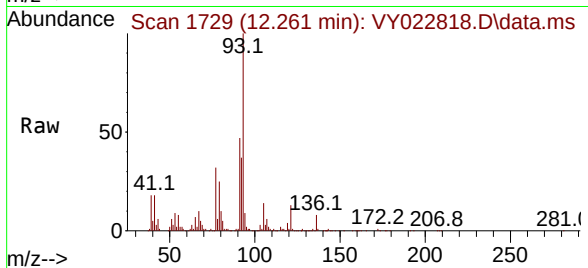
20071

Tgt Ion:105 Resp: 13835

Ion Ratio Lower Upper

105 100

120 12.2 13.0 38.9#



#80

1,3,5-Trimethylbenzene

Concen: 4.272 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VY022818.D

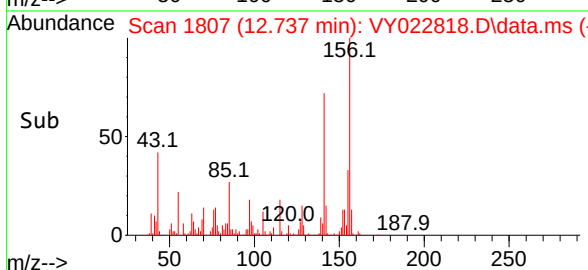
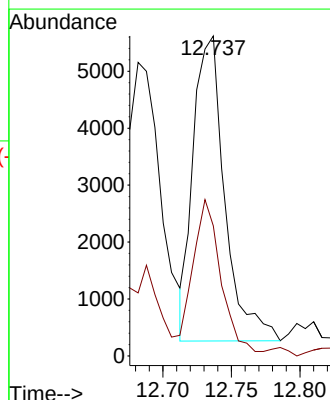
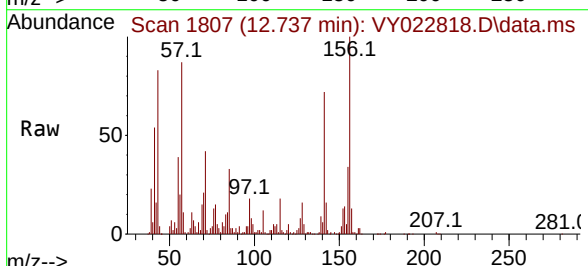
Acq: 25 Jun 2025 12:35

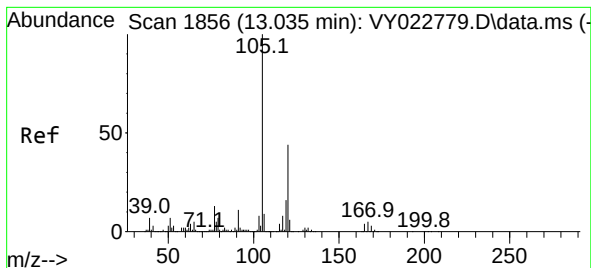
Tgt Ion:105 Resp: 8581

Ion Ratio Lower Upper

105 100

120 43.6 24.1 72.4





#84

1,2,4-Trimethylbenzene

Concen: 23.613 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. -0.006 min

Lab File: VY022818.D

Acq: 25 Jun 2025 12:35

Instrument :

MSVOA_Y

ClientSampleId :

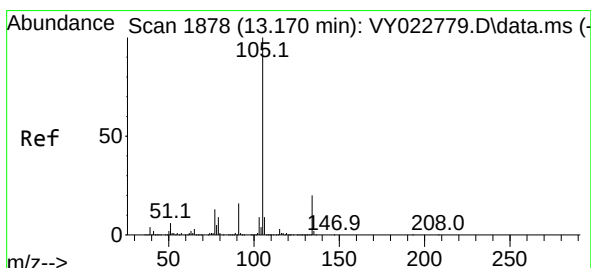
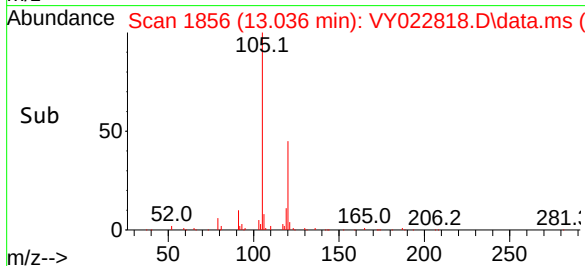
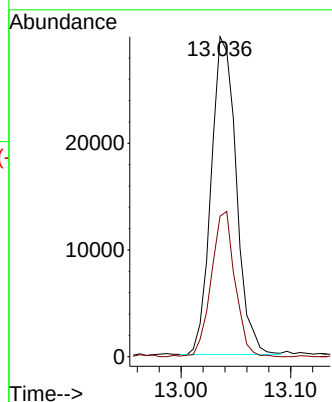
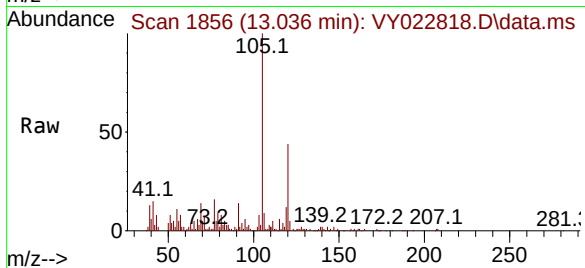
20071

Tgt Ion:105 Resp: 47483

Ion Ratio Lower Upper

105 100

120 43.3 22.7 68.1



#85

sec-Butylbenzene

Concen: 2.840 ug/l

RT: 13.170 min Scan# 1878

Delta R.T. -0.006 min

Lab File: VY022818.D

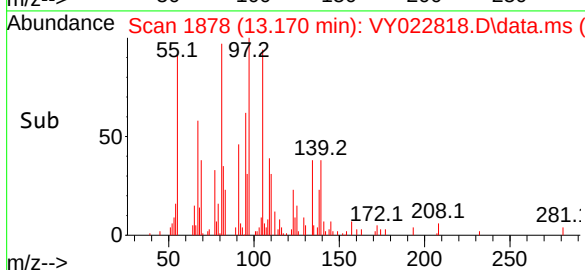
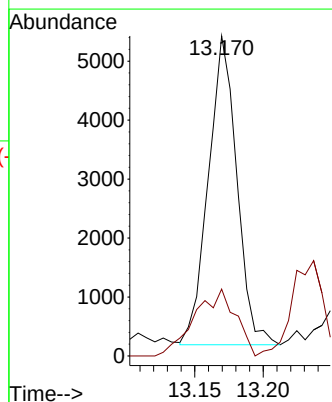
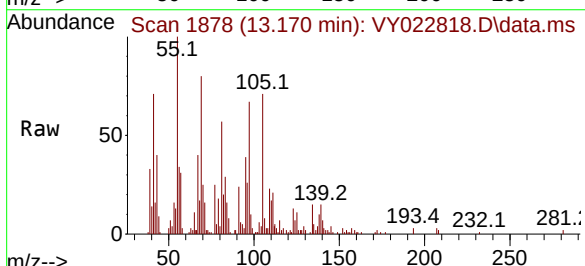
Acq: 25 Jun 2025 12:35

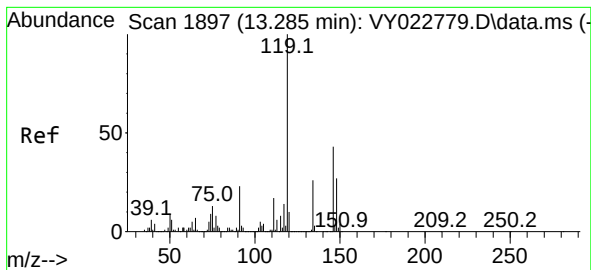
Tgt Ion:105 Resp: 7569

Ion Ratio Lower Upper

105 100

134 31.5 9.7 28.9#





#86

p-Isopropyltoluene

Concen: 4.523 ug/l

RT: 13.285 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022818.D

Acq: 25 Jun 2025 12:35

Instrument :

MSVOA_Y

ClientSampleId :

20071

Tgt Ion:119 Resp: 10031

Ion Ratio Lower Upper

119 100

134 26.8 13.1 39.1

91 19.4 11.6 34.8

