

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022521.D
 Acq On : 03 Jun 2025 14:38
 Operator : SY/MD
 Sample : Q2168-07
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B3

Quant Time: Jun 04 04:12:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

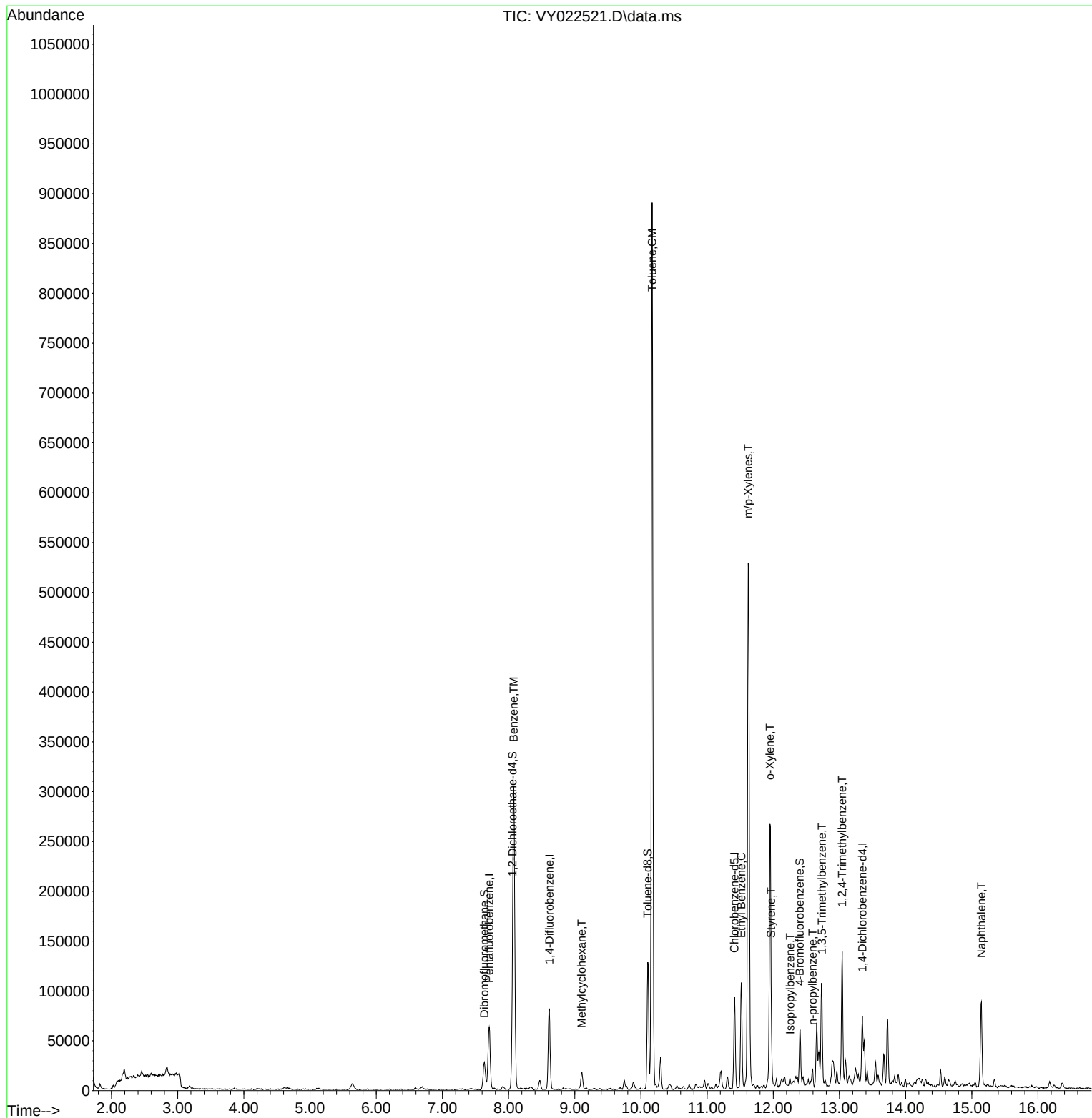
Internal Standards						
1) Pentafluorobenzene	7.707	168	44533	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	67375	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	44259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	14481	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	19808	39.769	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	79.540%		
35) Dibromofluoromethane	7.634	113	19285	47.955	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.920%		
50) Toluene-d8	10.103	98	77955	47.974	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.940%		
62) 4-Bromofluorobenzene	12.401	95	16244	33.552	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	67.100%		
Target Compounds					Qvalue	
39) Methylcyclohexane	9.103	83	6268	7.146	ug/l	97
40) Benzene	8.079	78	287939	149.364	ug/l	100
52) Toluene	10.170	92	344905	284.700	ug/l	100
67) Ethyl Benzene	11.517	91	71463	39.340	ug/l	99
68) m/p-Xylenes	11.621	106	151429	219.895	ug/l	99
69) o-Xylene	11.950	106	64849	100.440	ug/l	99
70) Styrene	11.968	104	20709	19.404	ug/l #	56
73) Isopropylbenzene	12.255	105	4547	3.825	ug/l	96
78) n-propylbenzene	12.596	91	13396	9.225	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	24603	26.359	ug/l	98
84) 1,2,4-Trimethylbenzene	13.041	105	66449	71.180	ug/l	99
95) Naphthalene	15.145	128	65018	143.942	ug/l	99

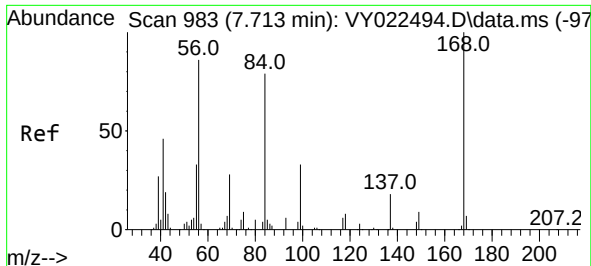
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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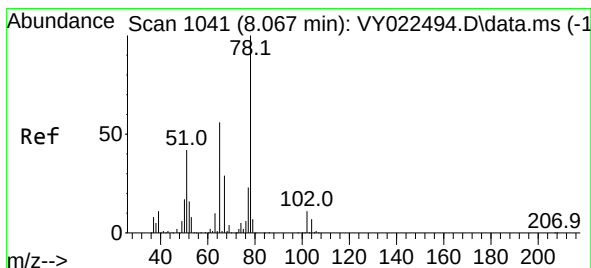
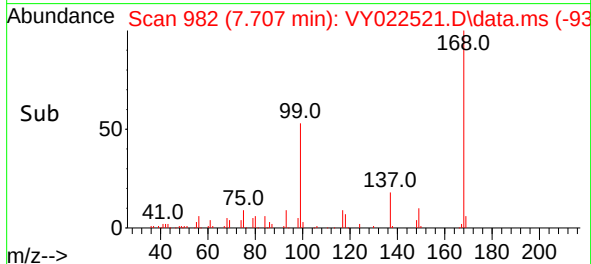
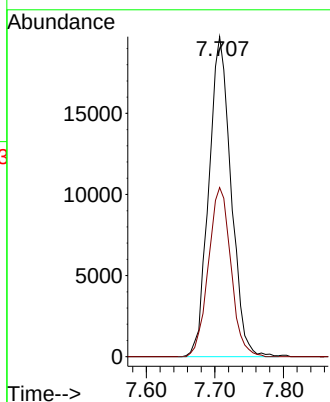
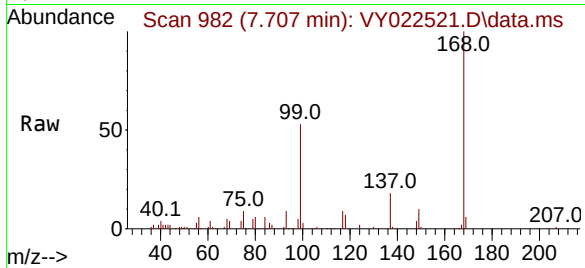




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

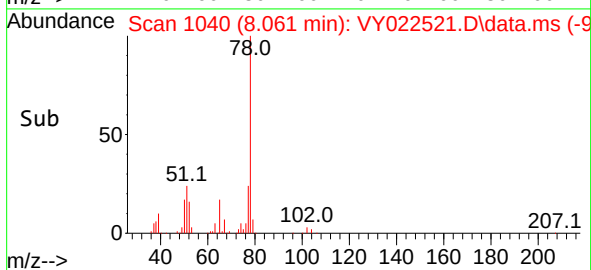
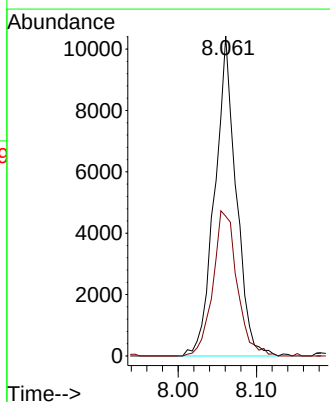
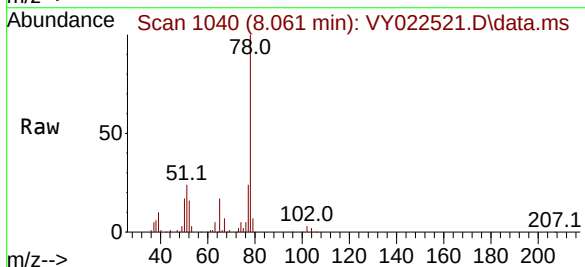
Instrument :
MSVOA_Y
ClientSampleId :
B3

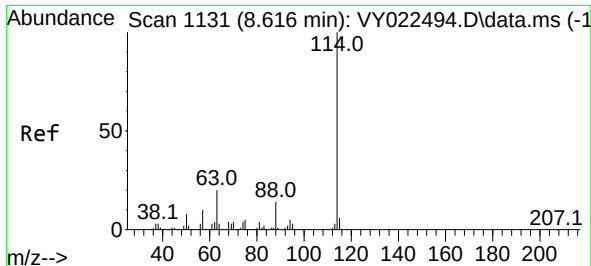
Tgt Ion:168 Resp: 44533
Ion Ratio Lower Upper
168 100
99 52.8 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 39.769 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

Tgt Ion: 65 Resp: 19808
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.4

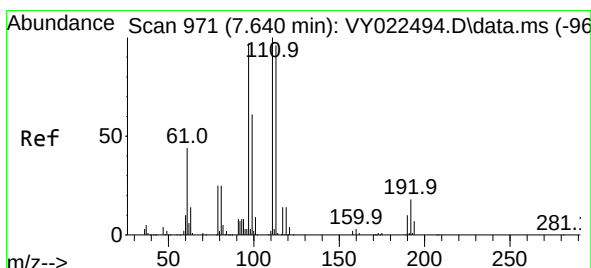
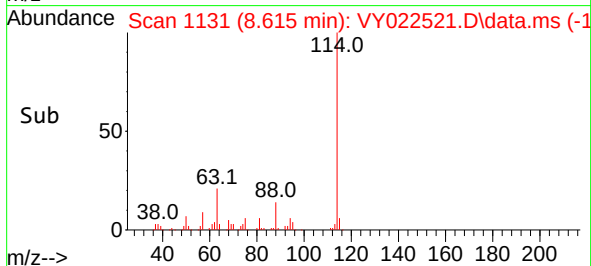
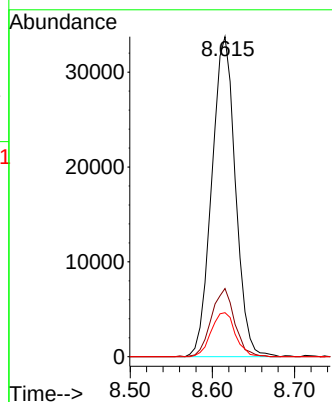
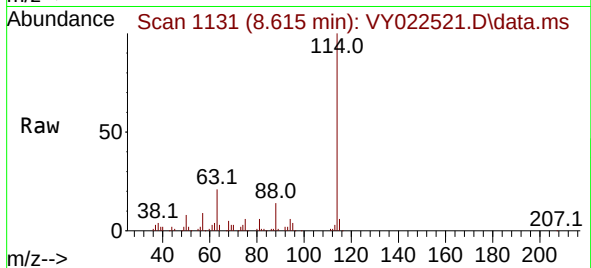




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

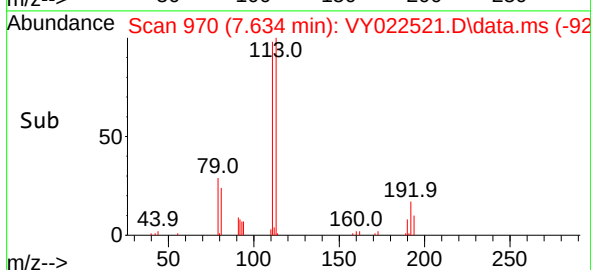
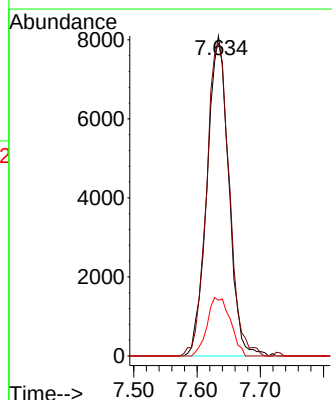
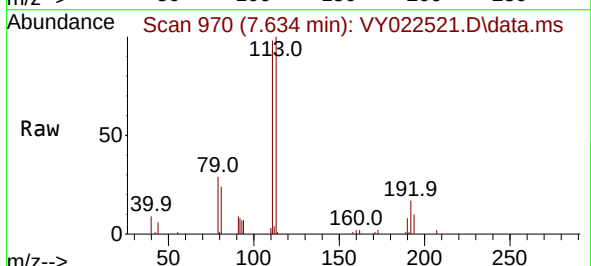
Instrument :
MSVOA_Y
ClientSampleId :
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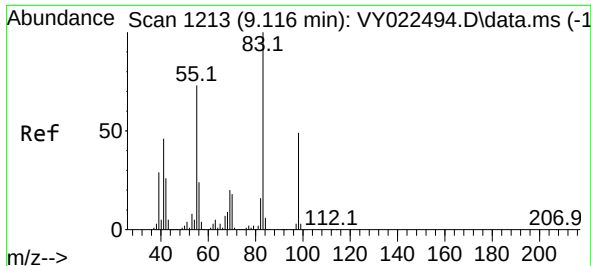
Tgt Ion:114	Resp:	67375
Ion Ratio	Lower	Upper
114	100	
63	21.3	0.0 40.8
88	13.8	0.0 27.8



#35
Dibromofluoromethane
Concen: 47.955 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

Tgt Ion:113	Resp:	19285
Ion Ratio	Lower	Upper
113	100	
111	102.5	81.1 121.7
192	19.5	14.2 21.2





#39

Methylcyclohexane

Concen: 7.146 ug/l

RT: 9.103 min Scan# 11

Delta R.T. -0.013 min

Lab File: VY022521.D

Acq: 03 Jun 2025 14:38

Instrument :

MSVOA_Y

ClientSampleId :

B3

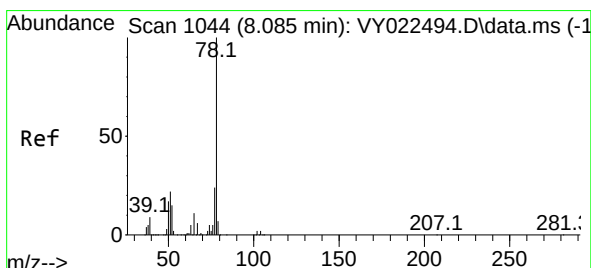
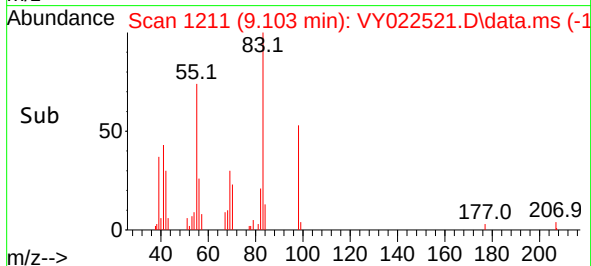
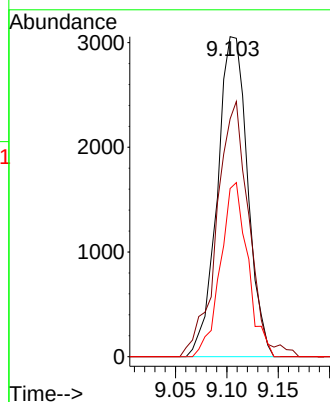
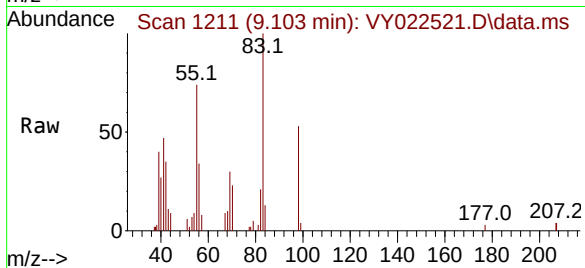
Tgt Ion: 83 Resp: 6268

Ion Ratio Lower Upper

83 100

55 74.3 58.1 87.1

98 52.5 39.0 58.6



#40

Benzene

Concen: 149.364 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. -0.006 min

Lab File: VY022521.D

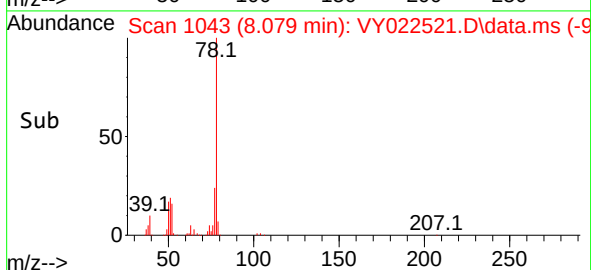
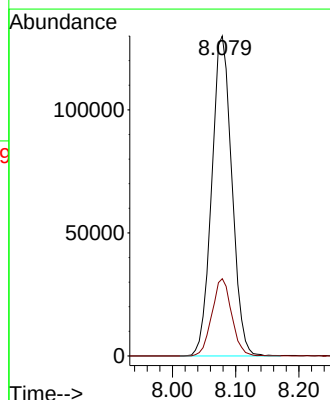
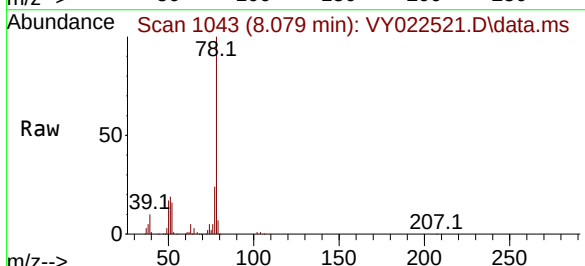
Acq: 03 Jun 2025 14:38

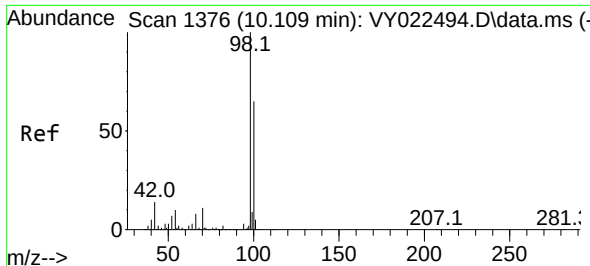
Tgt Ion: 78 Resp: 287939

Ion Ratio Lower Upper

78 100

77 24.1 19.3 28.9

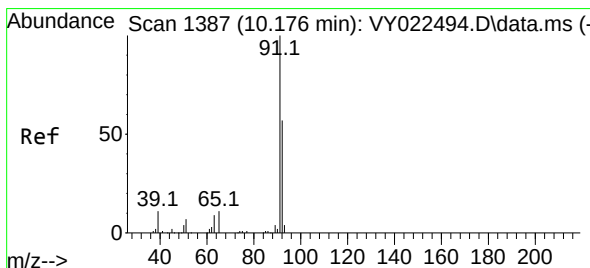
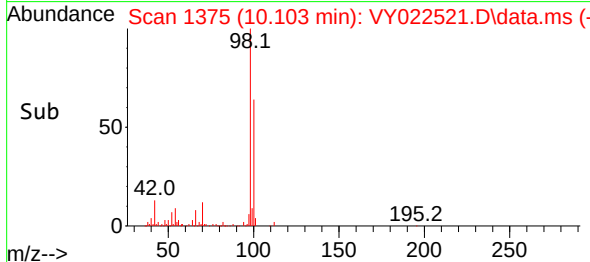
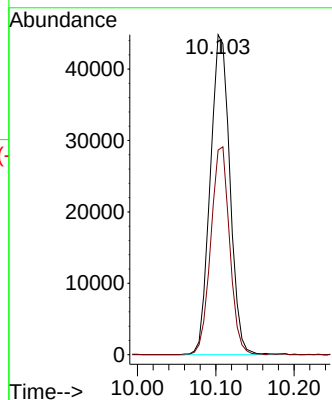
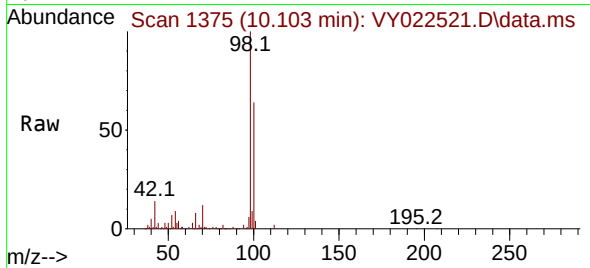




#50
Toluene-d8
Concen: 47.974 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

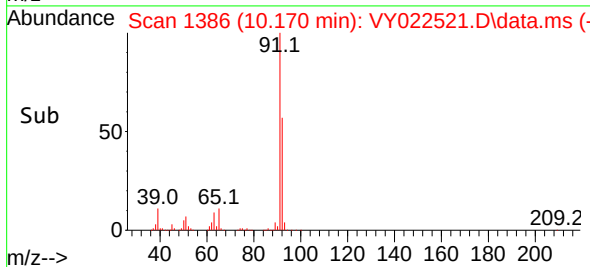
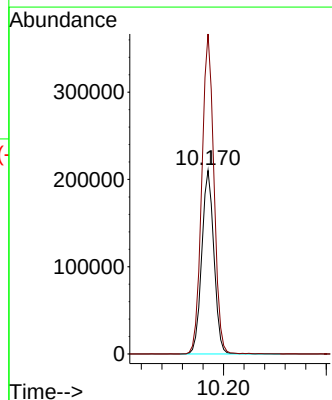
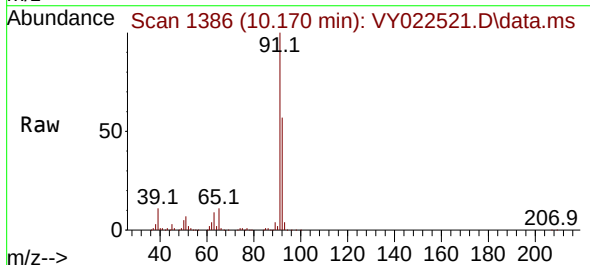
Instrument :
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ClientSampleId :
B3

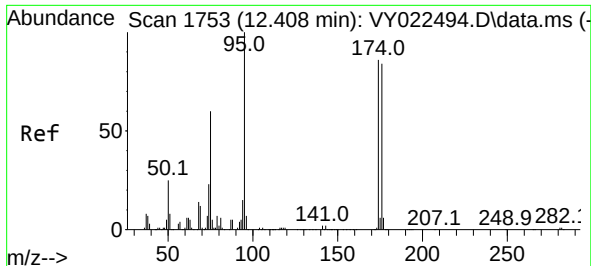
Tgt Ion: 98 Resp: 77955
Ion Ratio Lower Upper
98 100
100 62.5 51.4 77.0



#52
Toluene
Concen: 284.700 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

Tgt Ion: 92 Resp: 344905
Ion Ratio Lower Upper
92 100
91 173.8 139.0 208.4

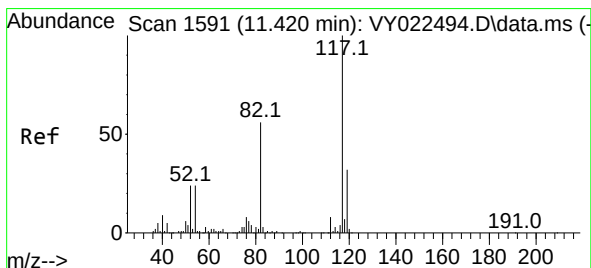
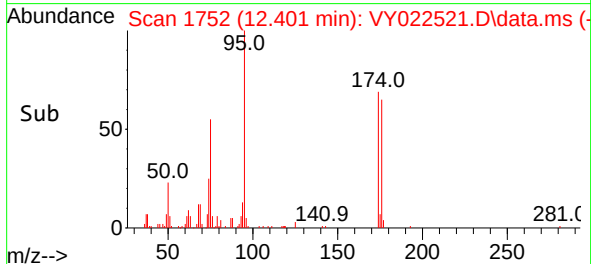
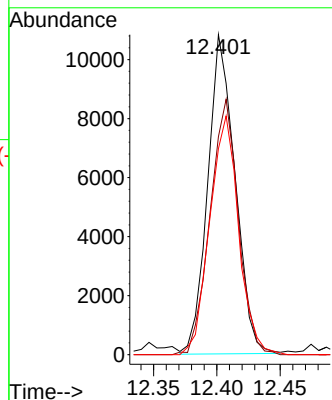
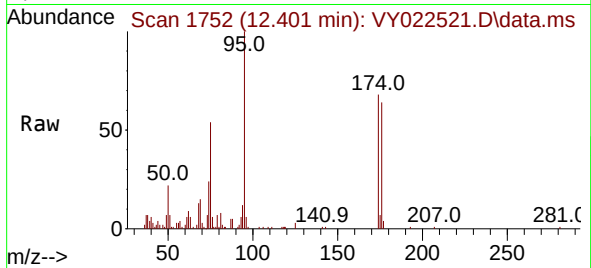




#62
4-Bromofluorobenzene
Concen: 33.552 ug/l
RT: 12.401 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

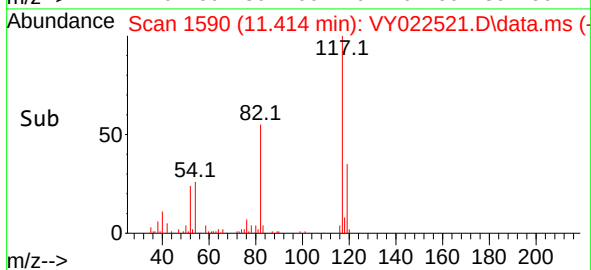
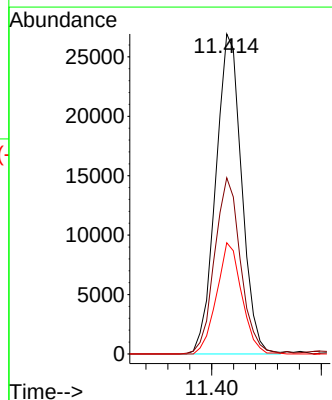
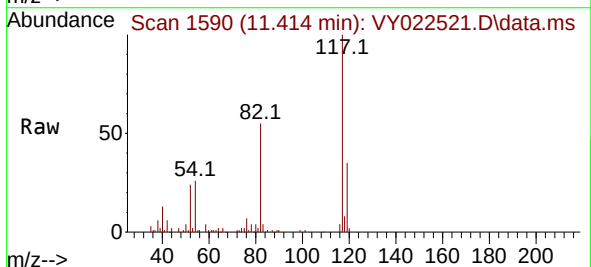
Instrument :
MSVOA_Y
ClientSampleId :
B3

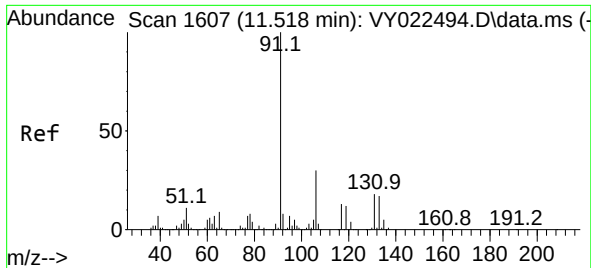
Tgt Ion: 95 Resp: 16244
Ion Ratio Lower Upper
95 100
174 82.9 0.0 170.0
176 79.1 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

Tgt Ion: 117 Resp: 44259
Ion Ratio Lower Upper
117 100
82 55.0 44.6 66.8
119 34.7 25.4 38.0

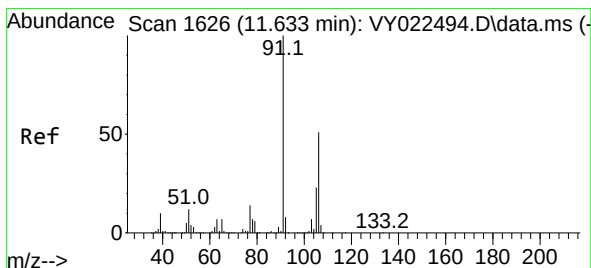
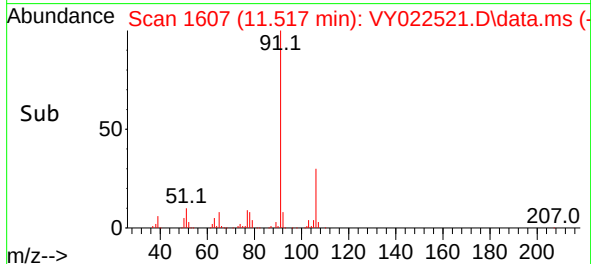
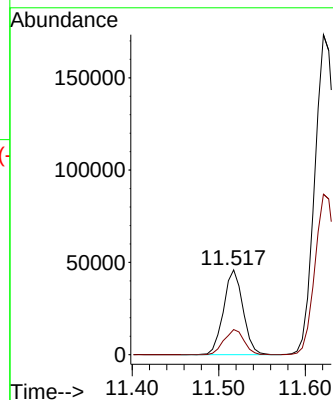
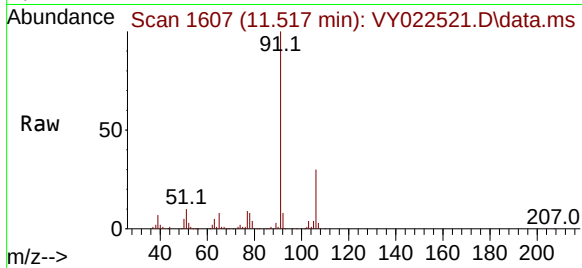




#67
Ethyl Benzene
Concen: 39.340 ug/l
RT: 11.517 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

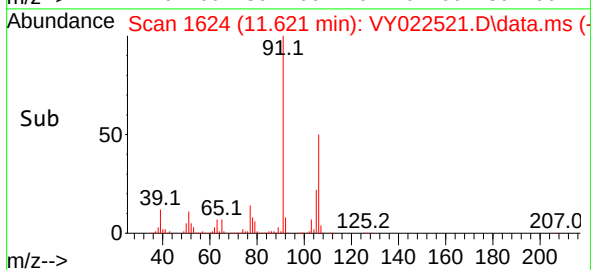
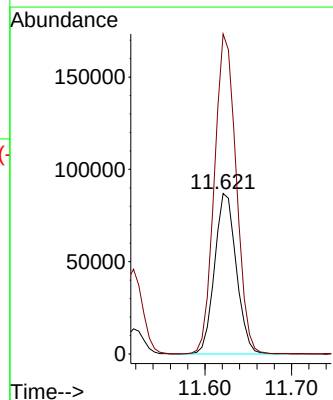
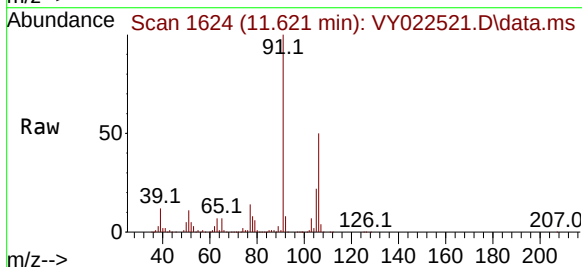
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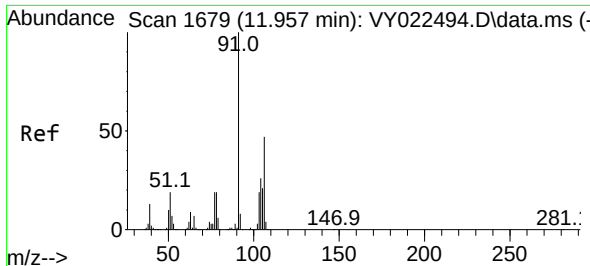
Tgt Ion: 91 Resp: 71463
Ion Ratio Lower Upper
91 100
106 29.6 24.2 36.4



#68
m/p-Xylenes
Concen: 219.895 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.013 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

Tgt Ion: 106 Resp: 151429
Ion Ratio Lower Upper
106 100
91 200.2 159.4 239.0

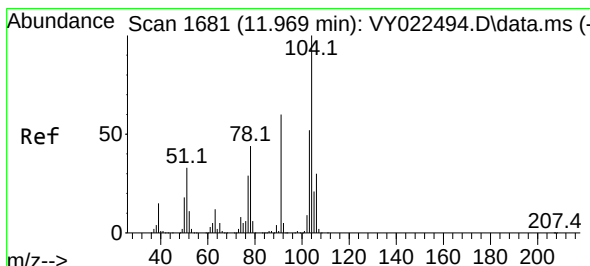
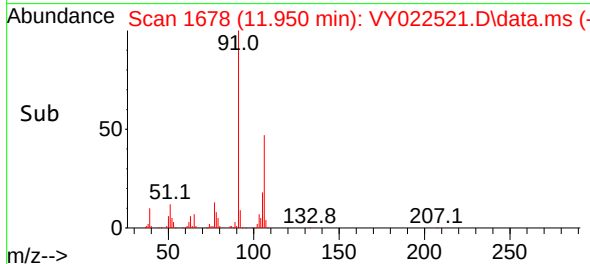
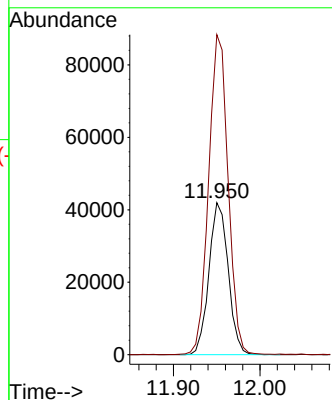
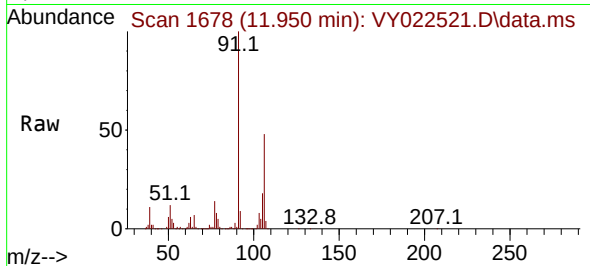




#69
o-Xylene
Concen: 100.440 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

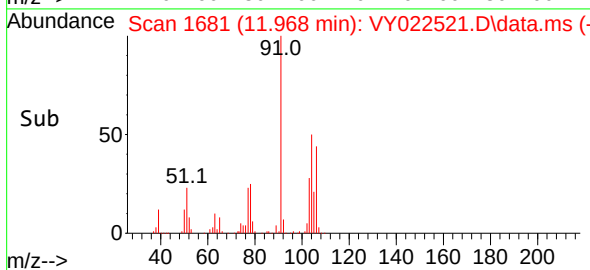
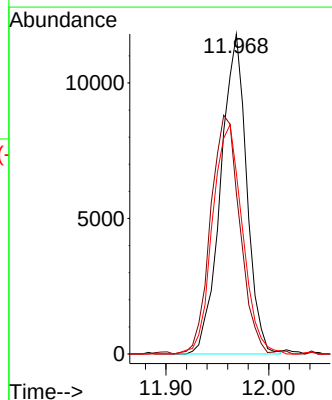
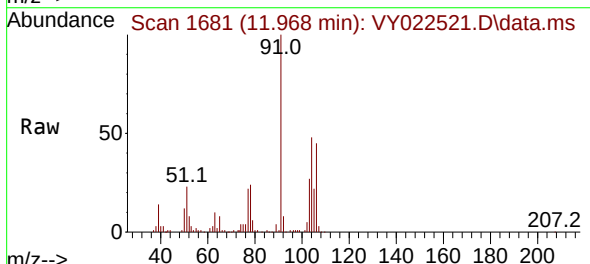
Instrument :
MSVOA_Y
ClientSampleId :
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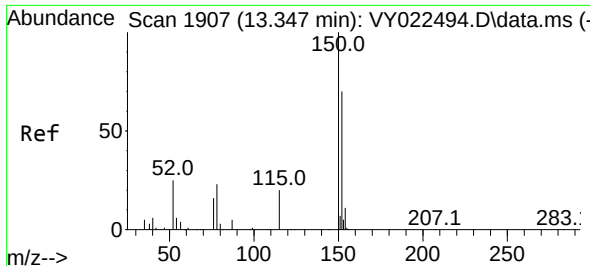
Tgt Ion:106 Resp: 64849
Ion Ratio Lower Upper
106 100
91 212.9 105.8 317.3



#70
Styrene
Concen: 19.404 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

Tgt Ion:104 Resp: 20709
Ion Ratio Lower Upper
104 100
78 83.8 39.5 59.3#
103 82.5 44.1 66.1#

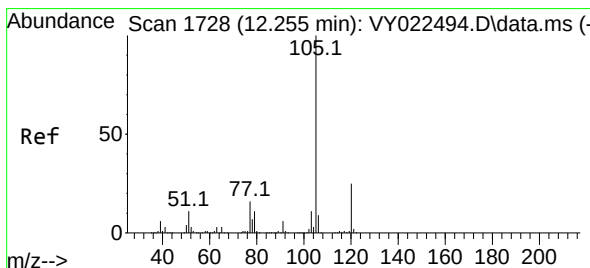
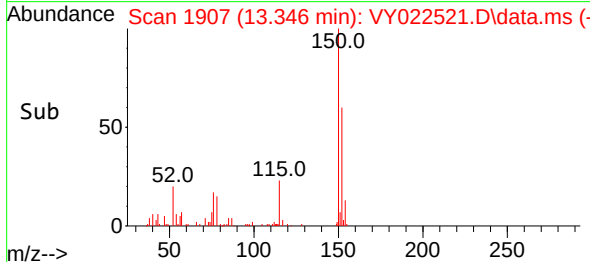
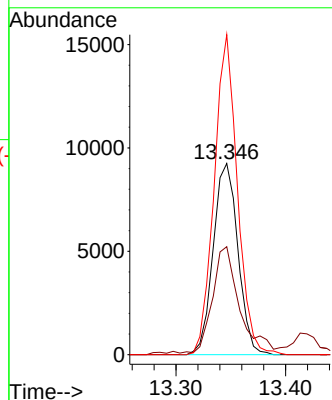
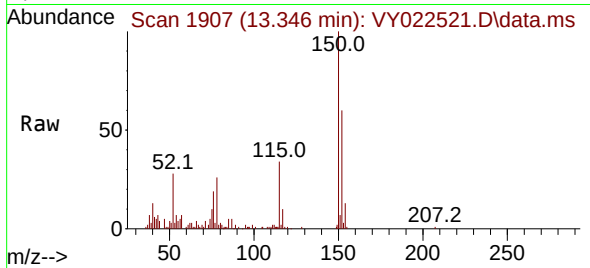




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY022521.D
 Acq: 03 Jun 2025 14:38

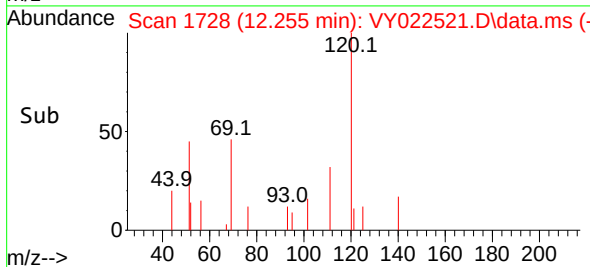
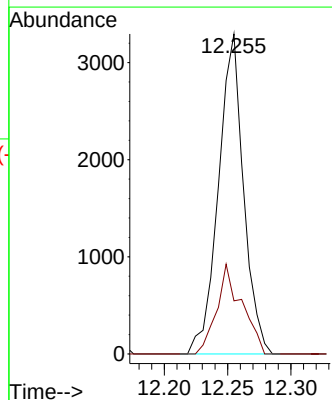
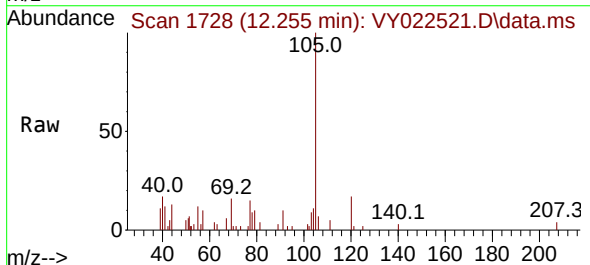
Instrument :
 MSVOA_Y
 ClientSampleId :
 B3

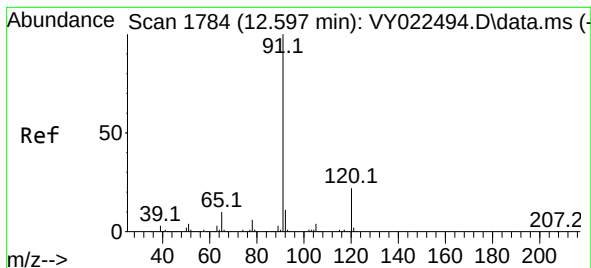
Tgt Ion:152 Resp: 14481
 Ion Ratio Lower Upper
 152 100
 115 60.7 28.9 86.7
 150 157.0 0.0 349.6



#73
 Isopropylbenzene
 Concen: 3.825 ug/l
 RT: 12.255 min Scan# 1728
 Delta R.T. -0.000 min
 Lab File: VY022521.D
 Acq: 03 Jun 2025 14:38

Tgt Ion:105 Resp: 4547
 Ion Ratio Lower Upper
 105 100
 120 27.9 13.0 38.9





#78

n-propylbenzene

Concen: 9.225 ug/l

RT: 12.596 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY022521.D

Acq: 03 Jun 2025 14:38

Instrument :

MSVOA_Y

ClientSampleId :

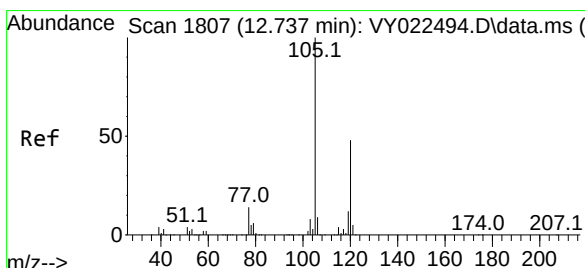
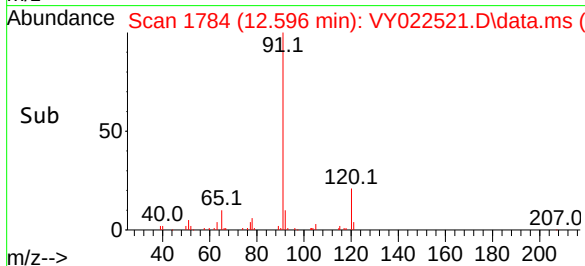
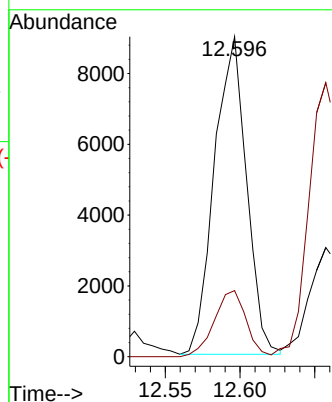
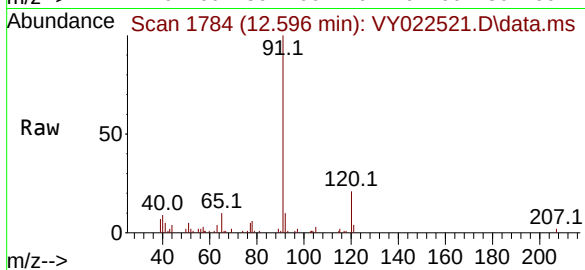
B3

Tgt Ion: 91 Resp: 13396

Ion Ratio Lower Upper

91 100

120 20.7 10.8 32.4



#80

1,3,5-Trimethylbenzene

Concen: 26.359 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VY022521.D

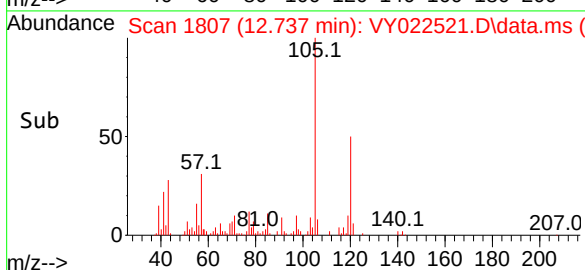
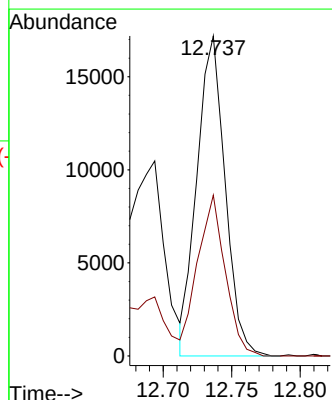
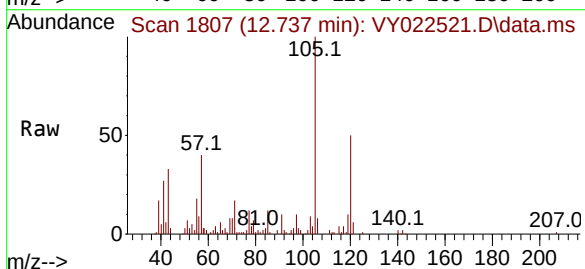
Acq: 03 Jun 2025 14:38

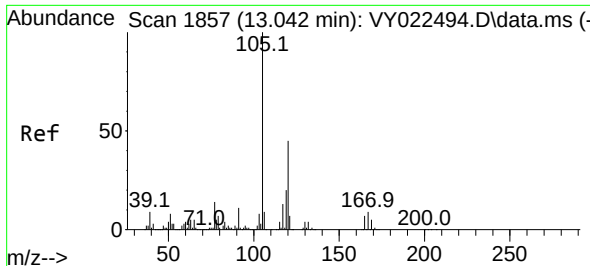
Tgt Ion: 105 Resp: 24603

Ion Ratio Lower Upper

105 100

120 49.4 24.1 72.4

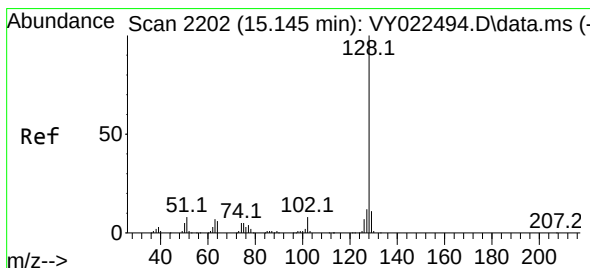
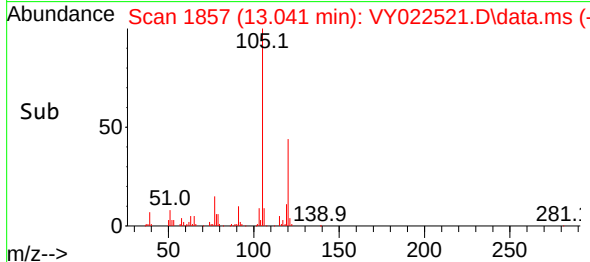
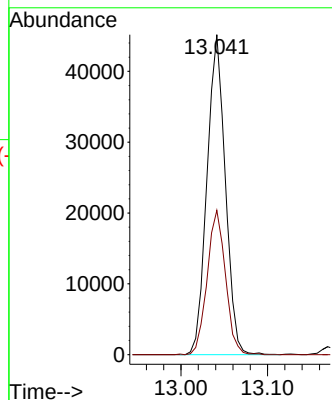
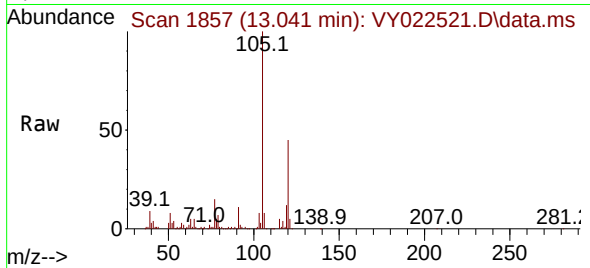




#84
1,2,4-Trimethylbenzene
Concen: 71.180 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B3

Tgt Ion:105 Resp: 66449
Ion Ratio Lower Upper
105 100
120 45.1 22.7 68.1



#95
Naphthalene
Concen: 143.942 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY022521.D
Acq: 03 Jun 2025 14:38

Tgt Ion:128 Resp: 65018
Ion Ratio Lower Upper
128 100
127 13.5 10.4 15.6
129 11.4 8.9 13.3

