

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102225\
 Data File : VY023557.D
 Acq On : 22 Oct 2025 17:35
 Operator : SY/MD
 Sample : Q3424-03
 Misc : 4.58g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-S14-00094-20251021

Quant Time: Oct 24 02:37:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

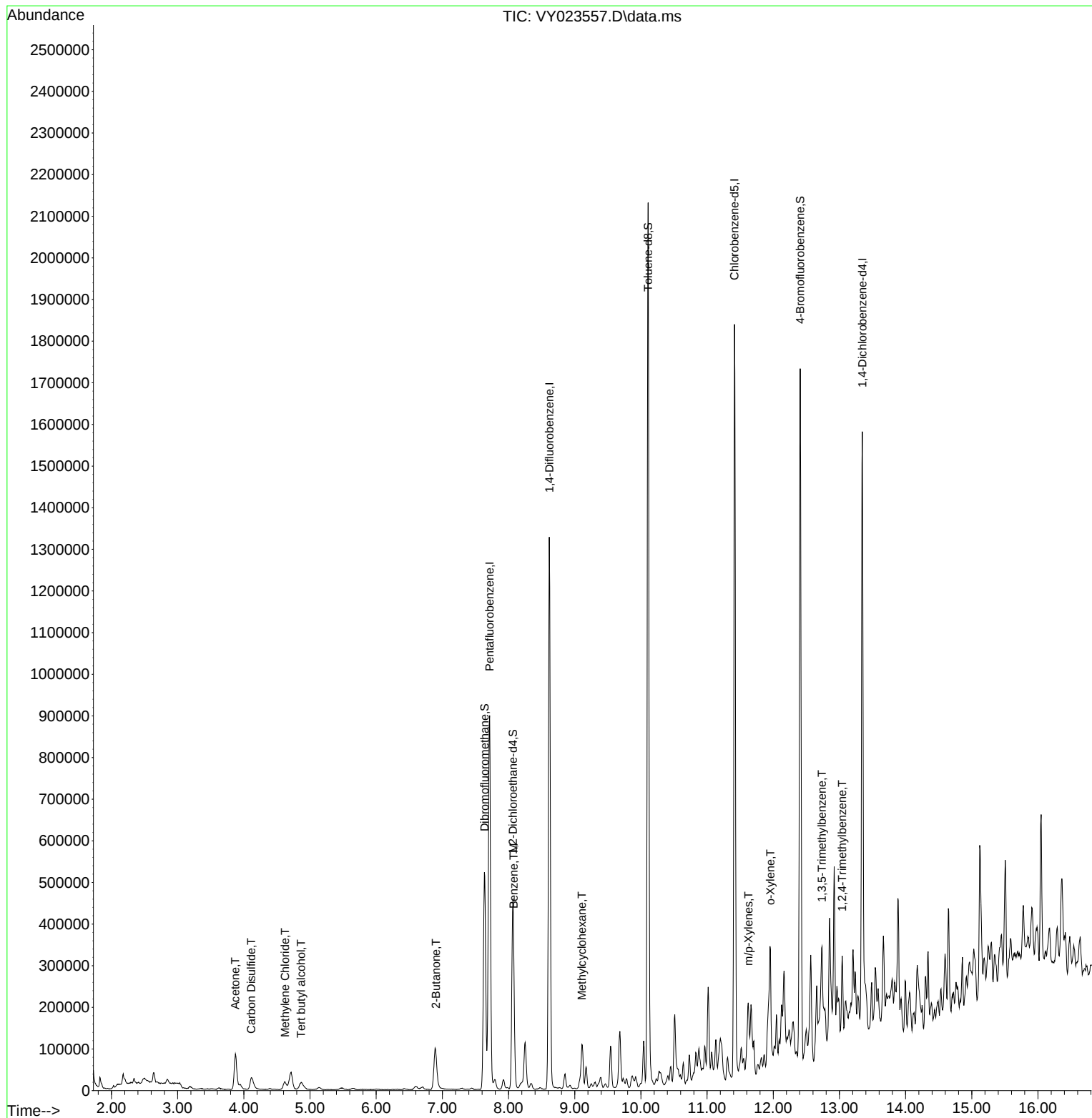
Internal Standards						
1) Pentafluorobenzene	7.713	168	766523	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1219443	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1038965	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	408239	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	327571	51.105	ug/l	0.00
Spiked Amount	50.000	Range 50 - 163	Recovery	= 102.200%		
35) Dibromofluoromethane	7.640	113	380304	50.755	ug/l	0.00
Spiked Amount	50.000	Range 54 - 147	Recovery	= 101.520%		
50) Toluene-d8	10.109	98	1391193	49.856	ug/l	0.00
Spiked Amount	50.000	Range 58 - 134	Recovery	= 99.720%		
62) 4-Bromofluorobenzene	12.408	95	408169	44.306	ug/l	0.00
Spiked Amount	50.000	Range 30 - 143	Recovery	= 88.620%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.866	59	35373	74.180	ug/l #	81
16) Acetone	3.872	43	148073	97.036	ug/l	92
17) Carbon Disulfide	4.110	76	44448	2.271	ug/l	95
20) Methylene Chloride	4.622	84	14233	1.725	ug/l	90
25) 2-Butanone	6.902	43	37182	19.959	ug/l	97
39) Methylcyclohexane	9.109	83	33569	2.599	ug/l #	89
40) Benzene	8.079	78	77924	2.480	ug/l	97
68) m/p-Xylenes	11.627	106	42421	2.891	ug/l	97
69) o-Xylene	11.956	106	72102	5.240	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	40212	1.850	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	92667	4.271	ug/l	99

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

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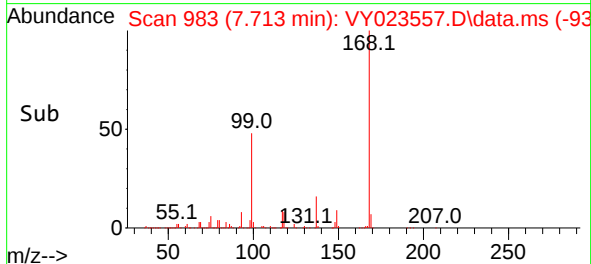
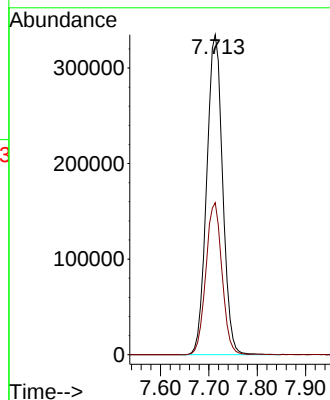
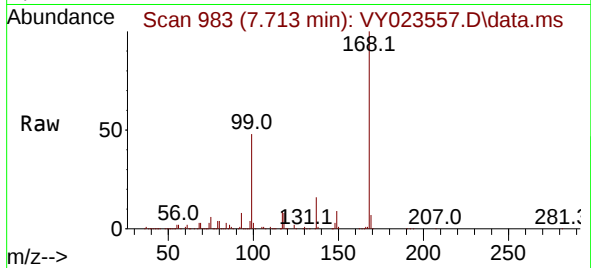




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

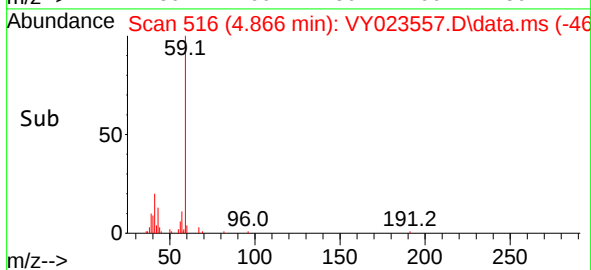
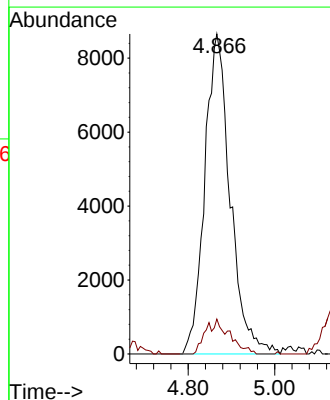
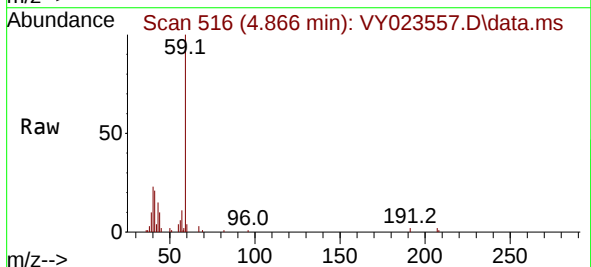
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S14-00094-20251021

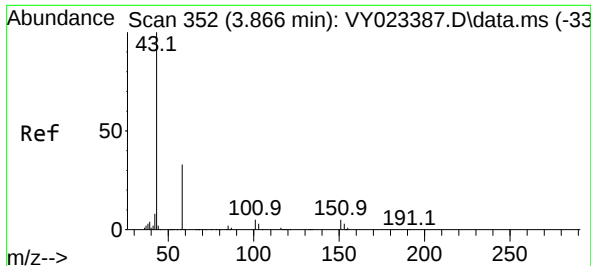
Tgt Ion:168 Resp: 766523
Ion Ratio Lower Upper
168 100
99 47.5 39.7 59.5



#11
Tert butyl alcohol
Concen: 74.180 ug/l
RT: 4.866 min Scan# 516
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 59 Resp: 35373
Ion Ratio Lower Upper
59 100
57 3.4 8.3 12.5#





#16

Acetone

Concen: 97.036 ug/l

RT: 3.872 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY023557.D

Acq: 22 Oct 2025 17:35

Instrument :

MSVOA_Y

ClientSampleId :

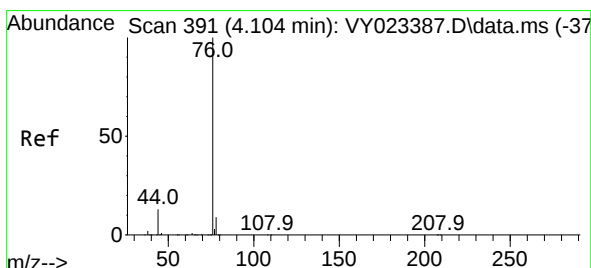
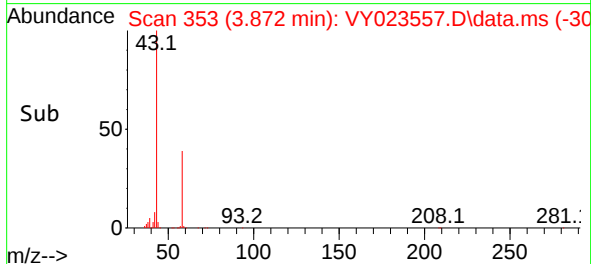
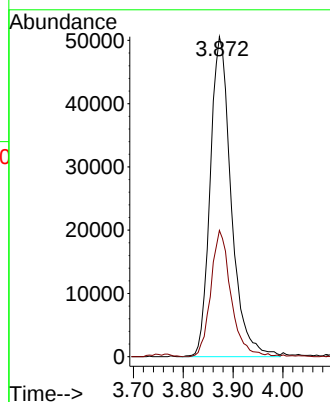
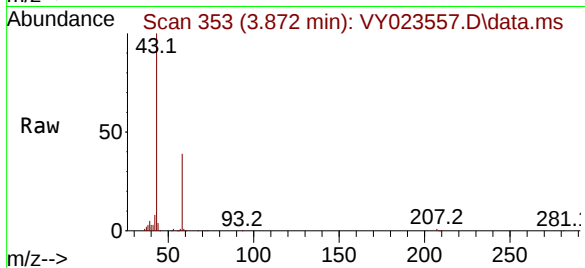
PR132-S14-00094-20251021

Tgt Ion: 43 Resp: 148073

Ion Ratio Lower Upper

43 100

58 39.3 27.7 41.5



#17

Carbon Disulfide

Concen: 2.271 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.006 min

Lab File: VY023557.D

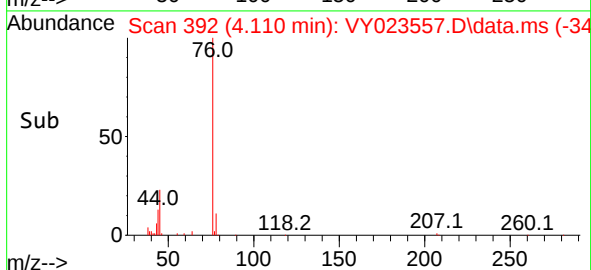
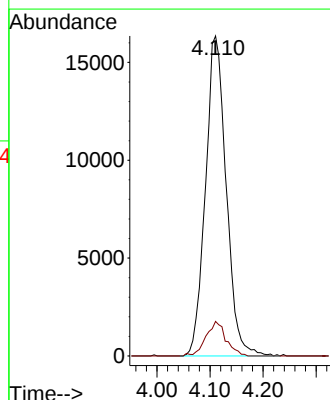
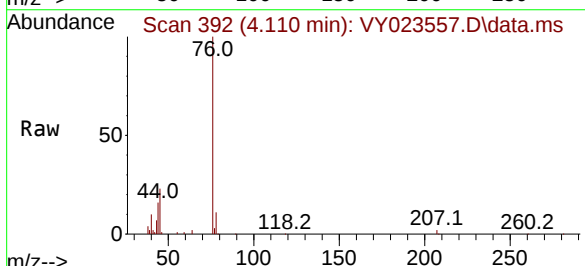
Acq: 22 Oct 2025 17:35

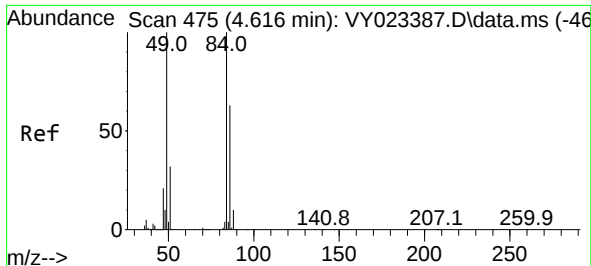
Tgt Ion: 76 Resp: 44448

Ion Ratio Lower Upper

76 100

78 10.8 7.3 10.9





#20

Methylene Chloride

Concen: 1.725 ug/l

RT: 4.622 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY023557.D

Acq: 22 Oct 2025 17:35

Instrument :

MSVOA_Y

ClientSampleId :

PR132-S14-00094-20251021

Tgt Ion: 84 Resp: 14233

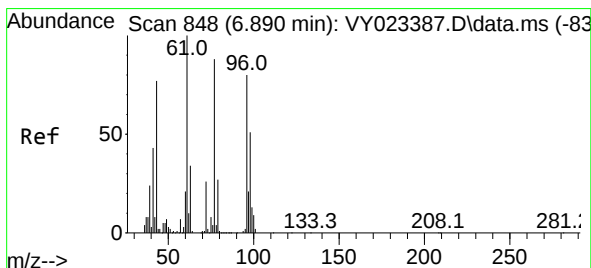
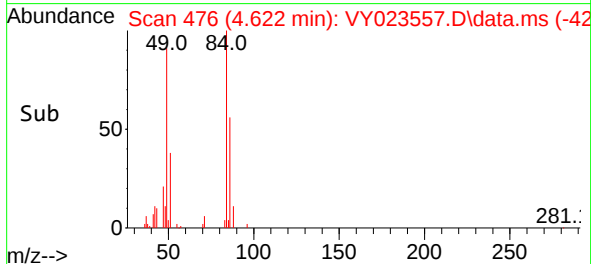
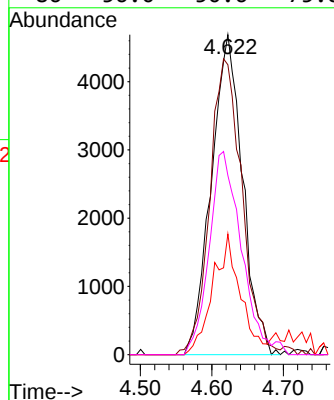
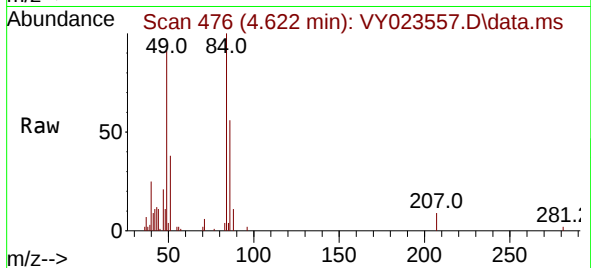
Ion Ratio Lower Upper

84 100

49 89.1 80.2 120.4

51 37.7 25.9 38.9

86 56.0 50.6 75.8



#25

2-Butanone

Concen: 19.959 ug/l

RT: 6.902 min Scan# 850

Delta R.T. 0.012 min

Lab File: VY023557.D

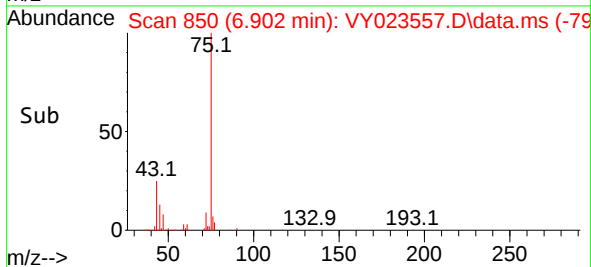
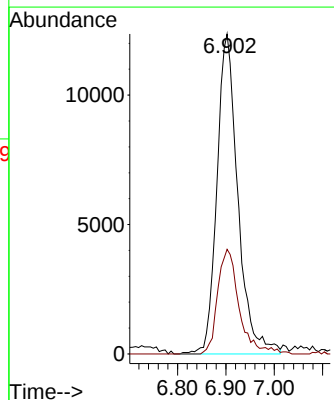
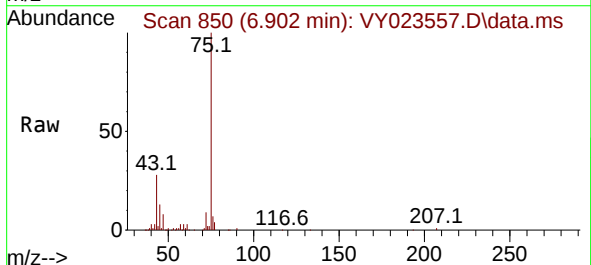
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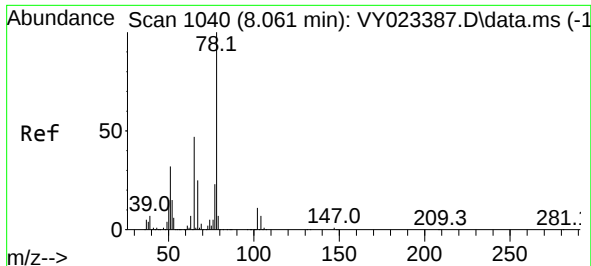
Tgt Ion: 43 Resp: 37182

Ion Ratio Lower Upper

43 100

72 32.7 27.4 41.2





#33

1,2-Dichloroethane-d4

Concen: 51.105 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023557.D

Acq: 22 Oct 2025 17:35

Instrument :

MSVOA_Y

ClientSampleId :

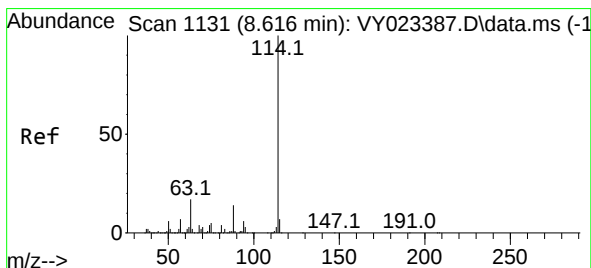
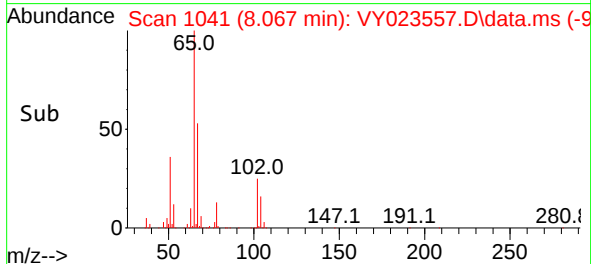
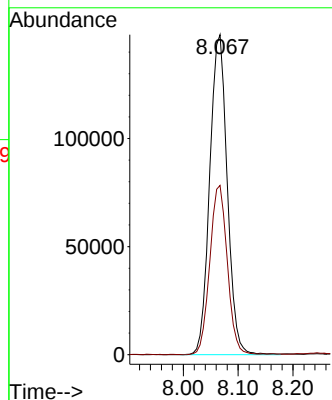
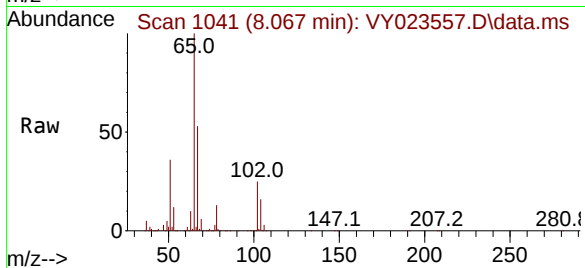
PR132-S14-00094-20251021

Tgt Ion: 65 Resp: 327571

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023557.D

Acq: 22 Oct 2025 17:35

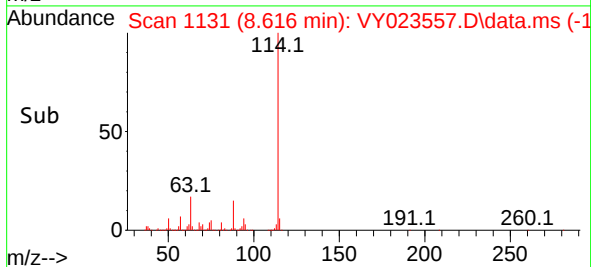
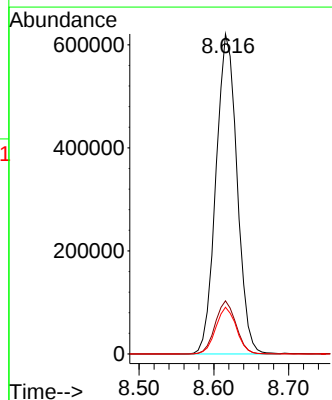
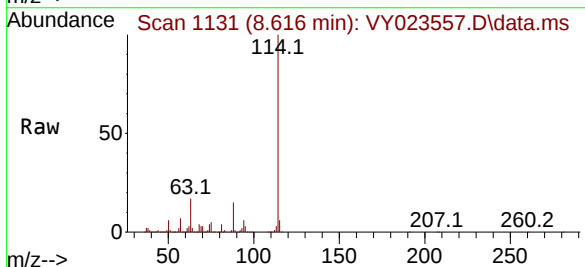
Tgt Ion: 114 Resp: 1219443

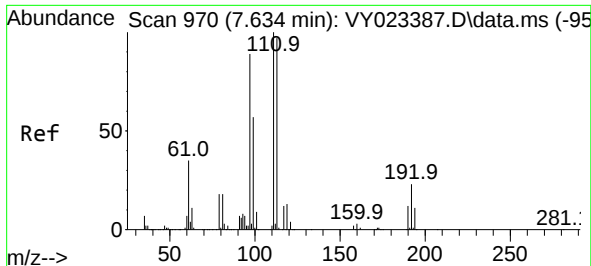
Ion Ratio Lower Upper

114 100

63 16.6 0.0 34.2

88 14.6 0.0 28.4

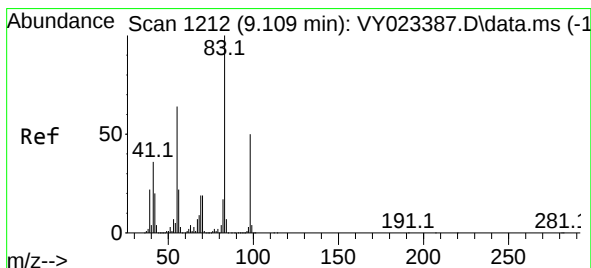
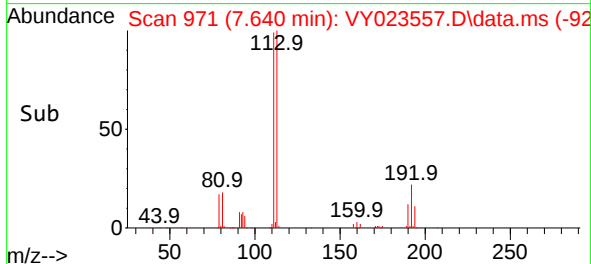
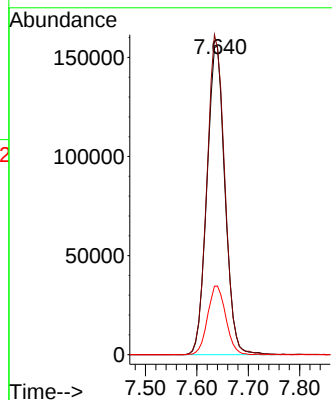
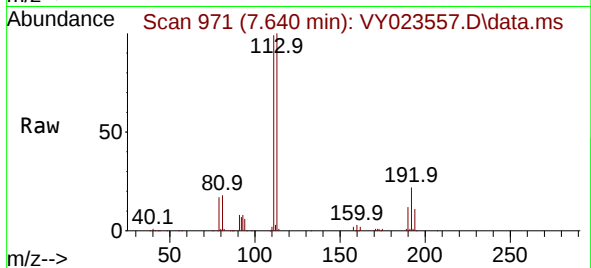




#35
Dibromofluoromethane
Concen: 50.755 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

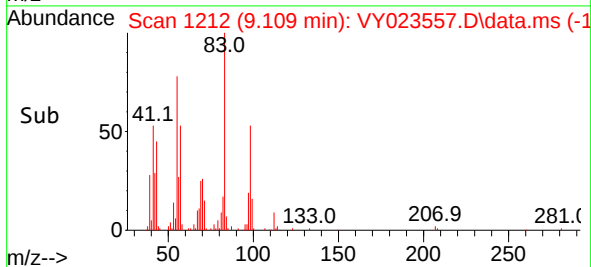
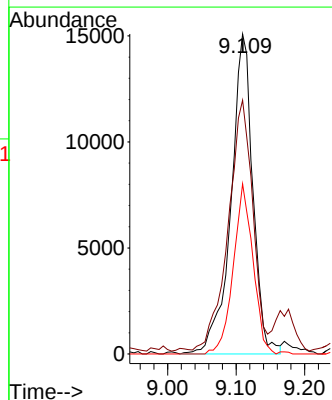
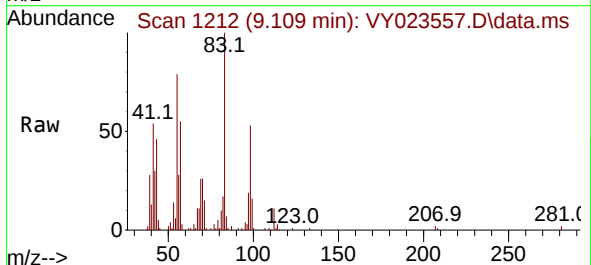
Instrument :
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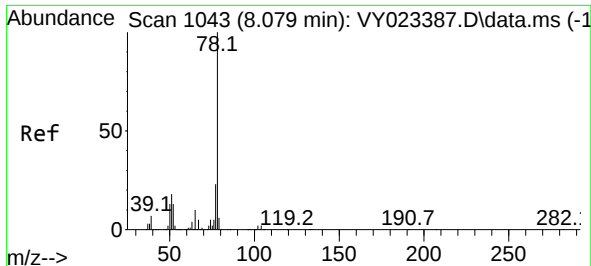
Tgt Ion:113 Resp: 380304
Ion Ratio Lower Upper
113 100
111 102.7 81.8 122.6
192 22.4 18.0 27.0



#39
Methylcyclohexane
Concen: 2.599 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 83 Resp: 33569
Ion Ratio Lower Upper
83 100
55 77.5 51.4 77.2#
98 53.1 40.4 60.6

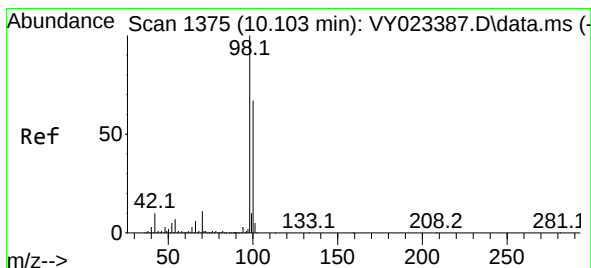
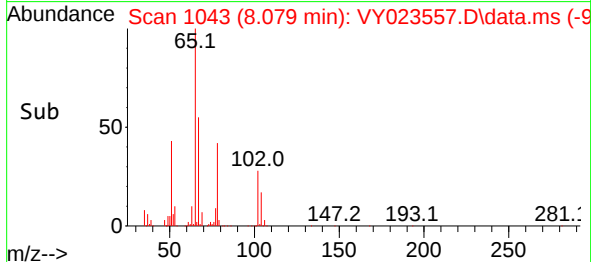
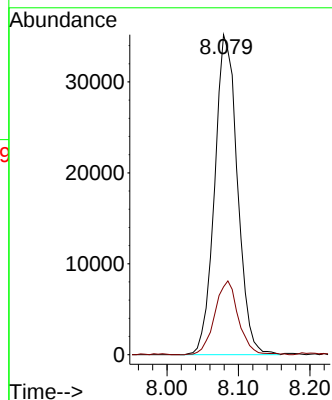
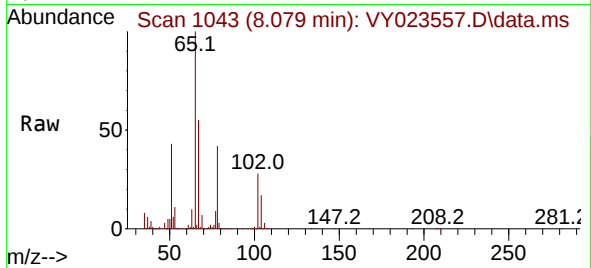




#40
Benzene
Concen: 2.480 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

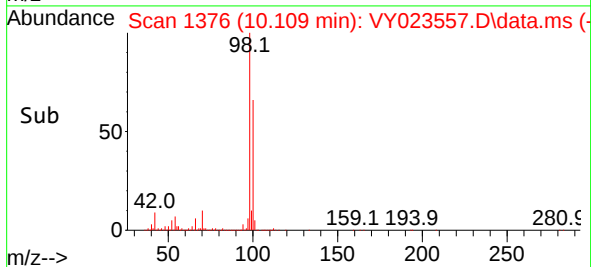
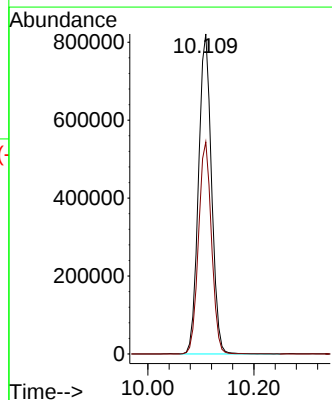
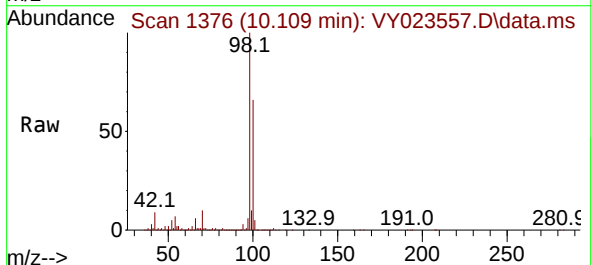
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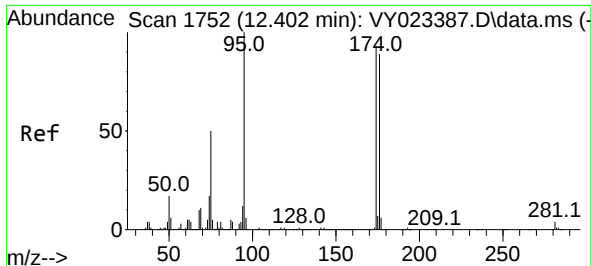
Tgt Ion: 78 Resp: 77924
Ion Ratio Lower Upper
78 100
77 21.2 18.3 27.5



#50
Toluene-d8
Concen: 49.856 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 98 Resp: 1391193
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4

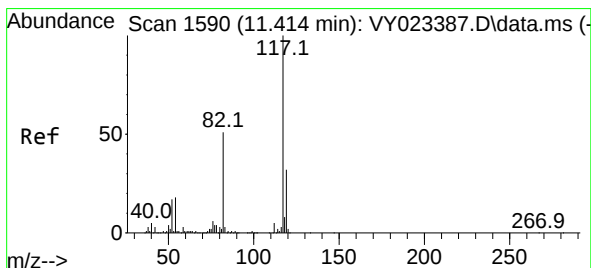
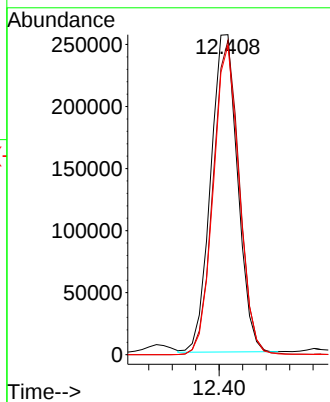
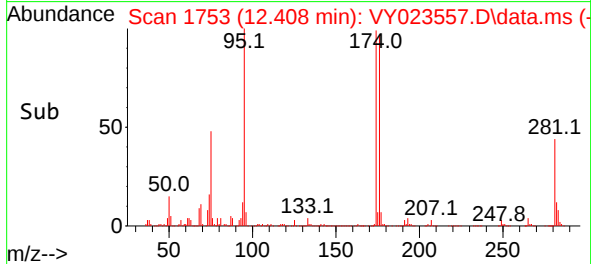
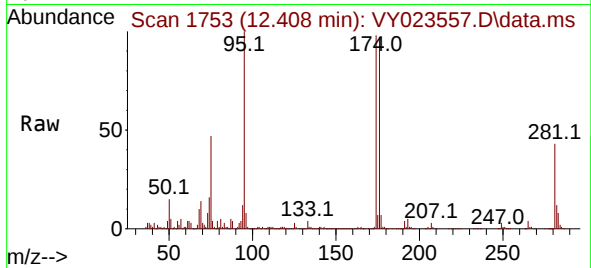




#62
4-Bromofluorobenzene
Concen: 44.306 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

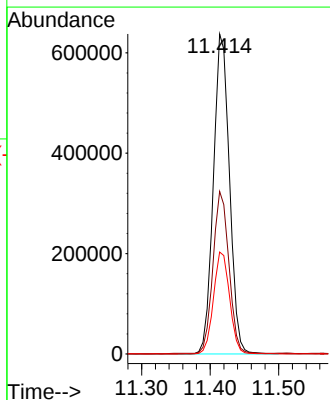
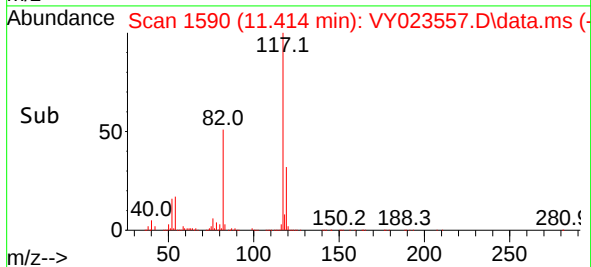
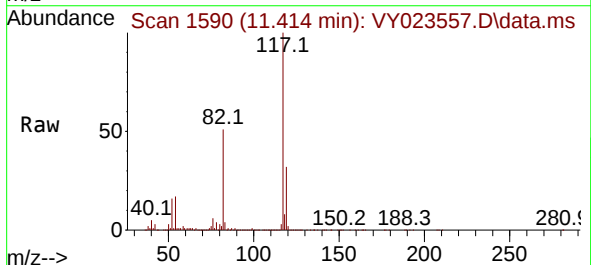
Instrument :
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PR132-S14-00094-20251021

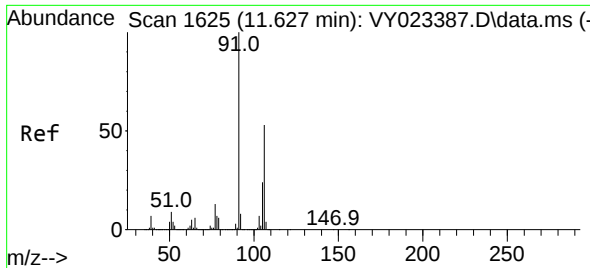
Tgt Ion: 95 Resp: 408169
Ion Ratio Lower Upper
95 100
174 96.4 0.0 192.8
176 93.6 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 117 Resp: 1038965
Ion Ratio Lower Upper
117 100
82 50.6 41.0 61.4
119 31.8 25.6 38.4

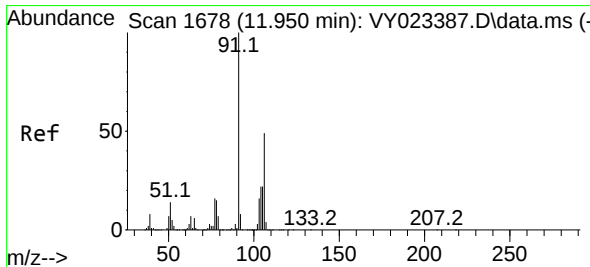
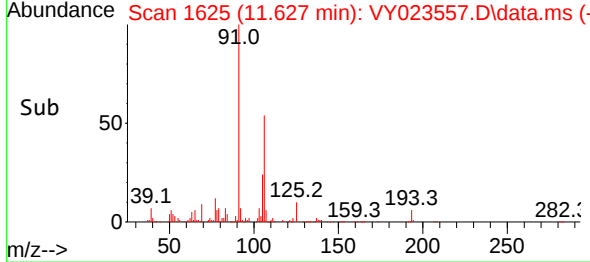
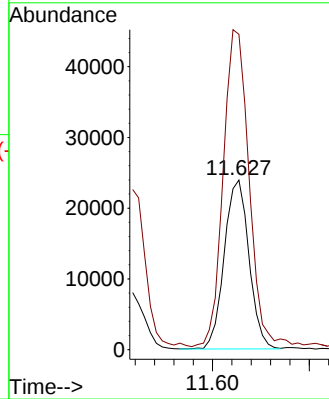
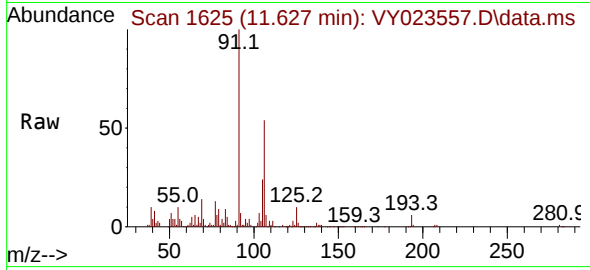




#68
m/p-Xylenes
Concen: 2.891 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

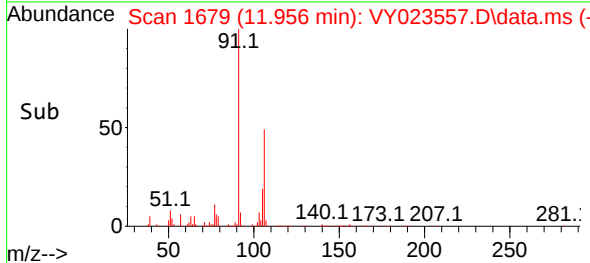
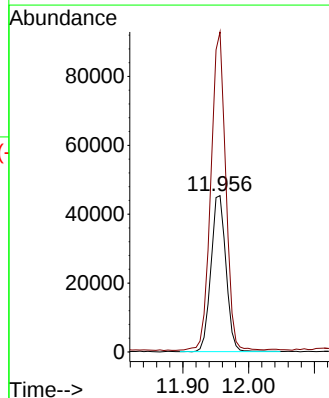
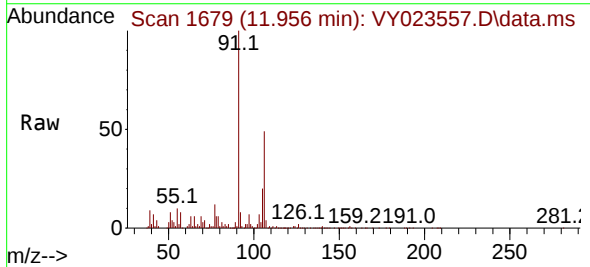
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S14-00094-20251021

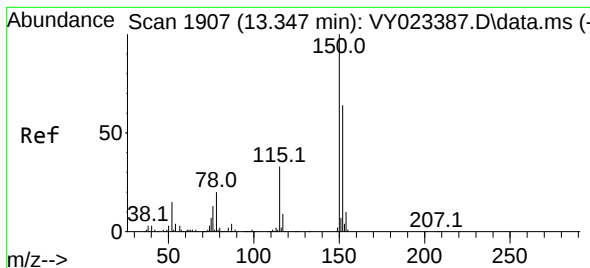
Tgt Ion:106 Resp: 42421
Ion Ratio Lower Upper
106 100
91 195.6 152.6 229.0



#69
o-Xylene
Concen: 5.240 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion:106 Resp: 72102
Ion Ratio Lower Upper
106 100
91 201.0 101.4 304.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023557.D

Acq: 22 Oct 2025 17:35

Instrument :

MSVOA_Y

ClientSampleId :

PR132-S14-00094-20251021

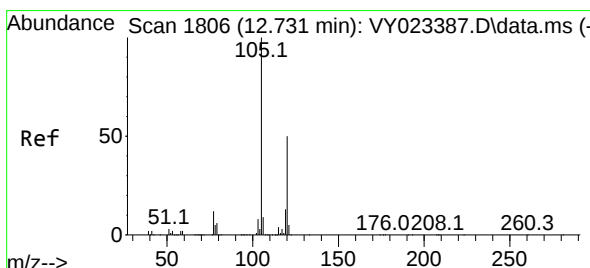
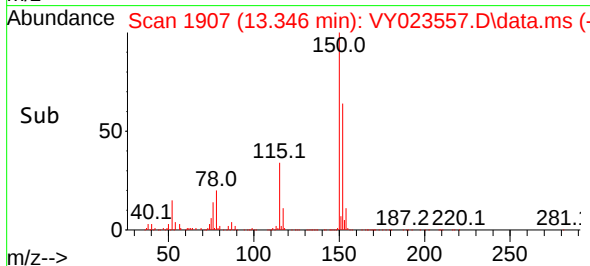
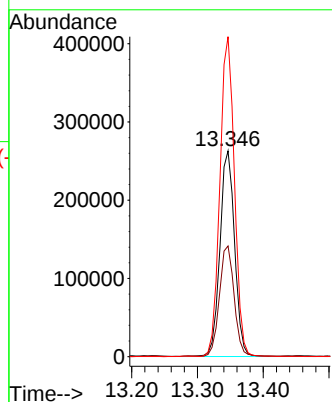
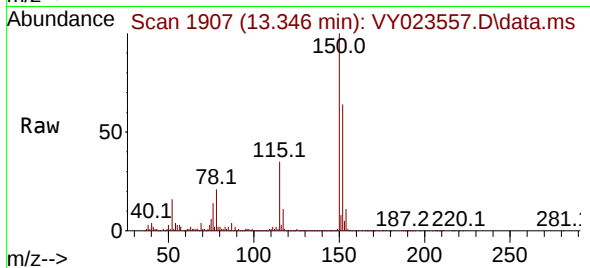
Tgt Ion:152 Resp: 408239

Ion Ratio Lower Upper

152 100

115 53.8 27.1 81.2

150 153.9 0.0 347.4



#80

1,3,5-Trimethylbenzene

Concen: 1.850 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.006 min

Lab File: VY023557.D

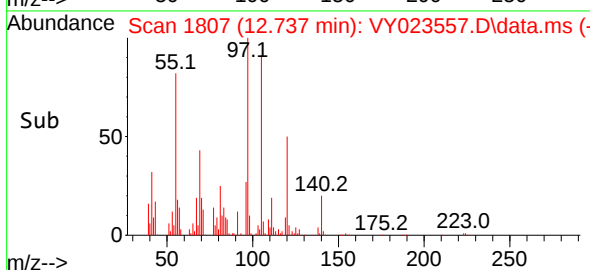
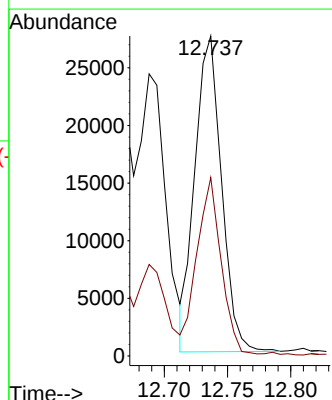
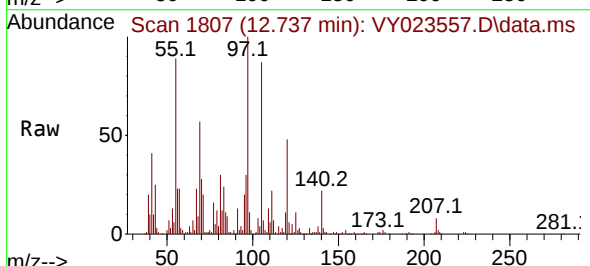
Acq: 22 Oct 2025 17:35

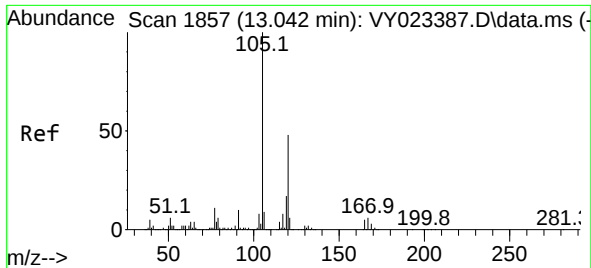
Tgt Ion:105 Resp: 40212

Ion Ratio Lower Upper

105 100

120 50.7 25.4 76.4





#84
 1,2,4-Trimethylbenzene
 Concen: 4.271 ug/l
 RT: 13.042 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VY023557.D
 Acq: 22 Oct 2025 17:35

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-S14-00094-20251021

Tgt Ion:105 Resp: 92667
 Ion Ratio Lower Upper
 105 100
 120 48.0 23.8 71.2

