

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102225\
 Data File : VY023553.D
 Acq On : 22 Oct 2025 15:58
 Operator : SY/MD
 Sample : Q3419-05
 Misc : 4.98g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-S16-094119-20251021

Quant Time: Oct 24 02:36:21 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)

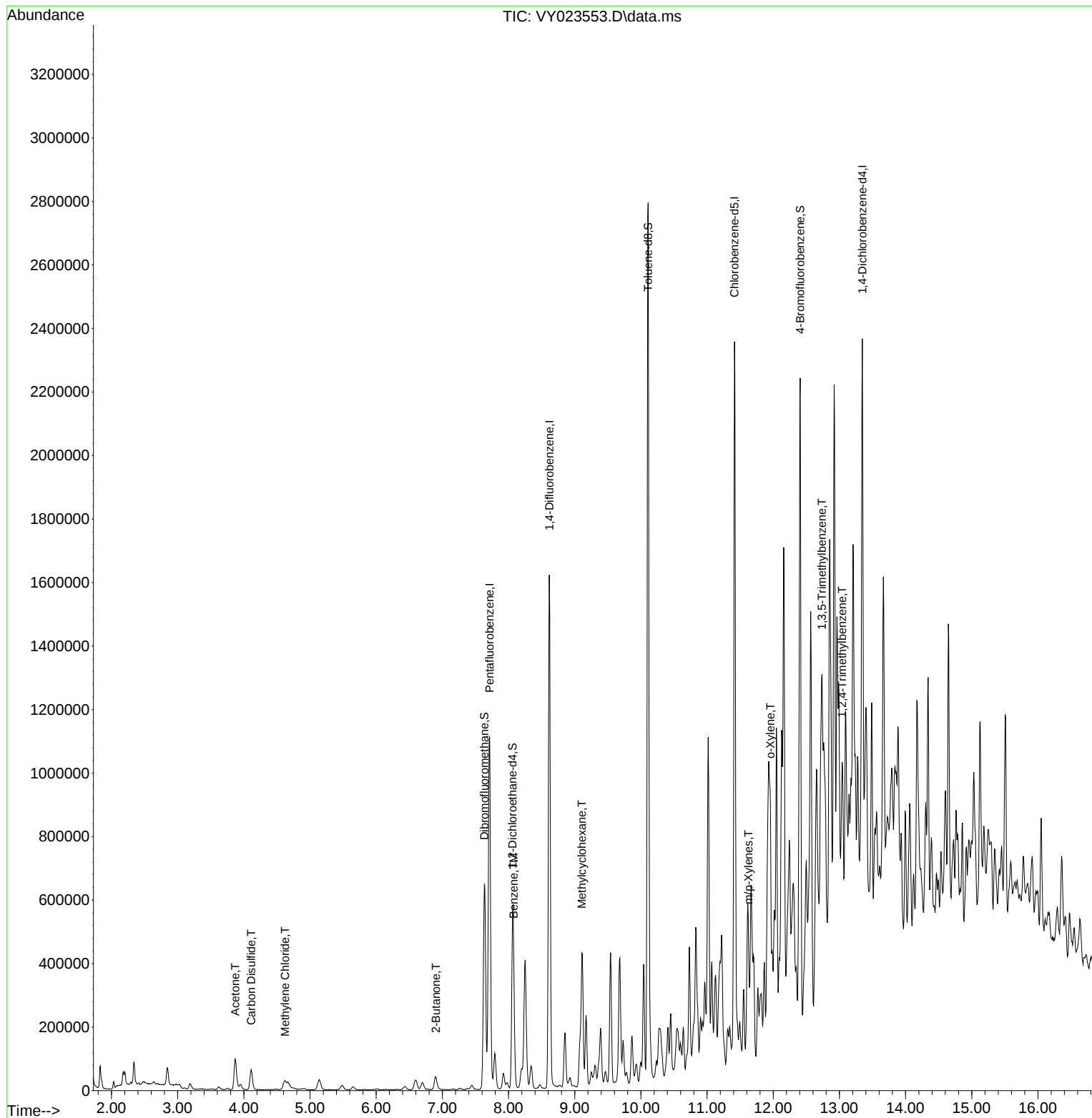
Internal Standards						
1) Pentafluorobenzene	7.713	168	942425	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1514027	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1286219	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	504876	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	409580	51.973	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.940%	
35) Dibromofluoromethane	7.634	113	472529	50.793	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.580%	
50) Toluene-d8	10.109	98	1725302	49.799	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.600%	
62) 4-Bromofluorobenzene	12.408	95	529575	46.299	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 92.600%	
Target Compounds						
					Qvalue	
16) Acetone	3.873	43	161831	86.257	ug/l	94
17) Carbon Disulfide	4.110	76	128146	5.326	ug/l	99
20) Methylene Chloride	4.622	84	16514	1.628	ug/l #	95
25) 2-Butanone	6.903	43	56883	24.835	ug/l	97
39) Methylcyclohexane	9.110	83	126416	7.883	ug/l #	79
40) Benzene	8.079	78	104295	2.674	ug/l	97
68) m/p-Xylenes	11.627	106	61705	3.397	ug/l	92
69) o-Xylene	11.957	106	145222	8.524	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	87778	3.265	ug/l	96
84) 1,2,4-Trimethylbenzene	13.042	105	150406	5.605	ug/l	97

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

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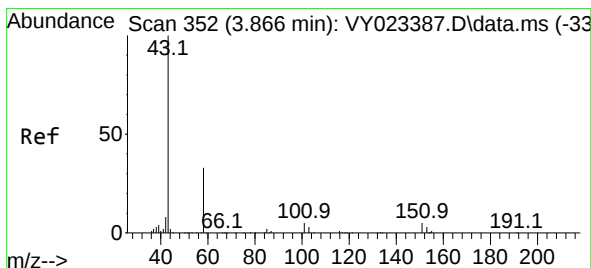
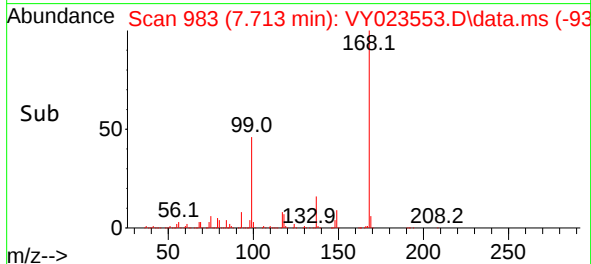
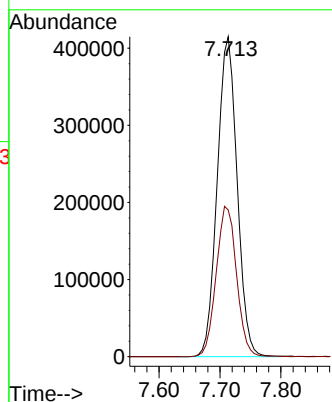
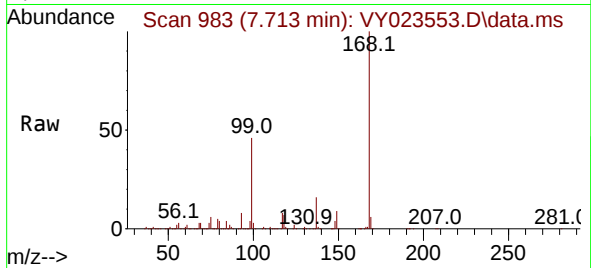




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

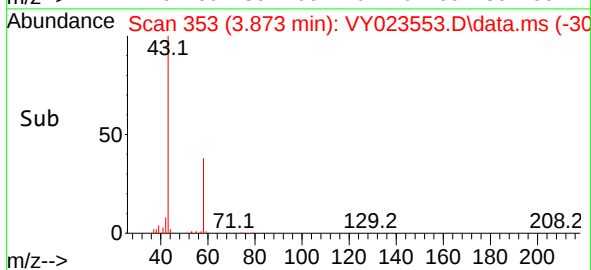
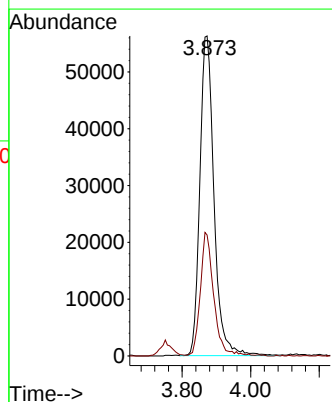
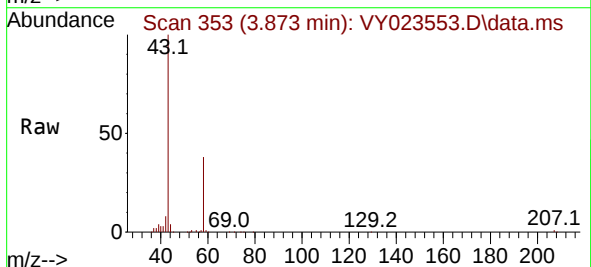
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S16-094119-20251021

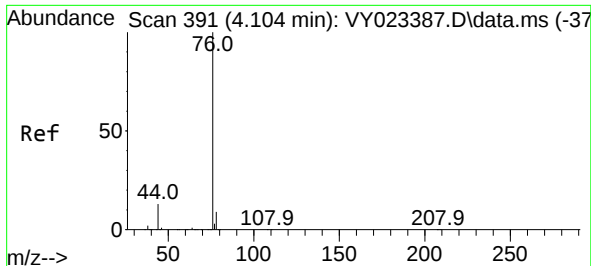
Tgt Ion:168 Resp: 942425
Ion Ratio Lower Upper
168 100
99 45.9 39.7 59.5



#16
Acetone
Concen: 86.257 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

Tgt Ion: 43 Resp: 161831
Ion Ratio Lower Upper
43 100
58 37.8 27.7 41.5

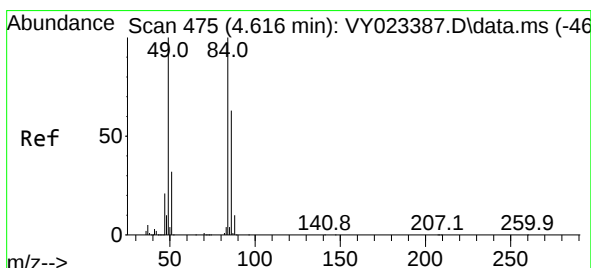
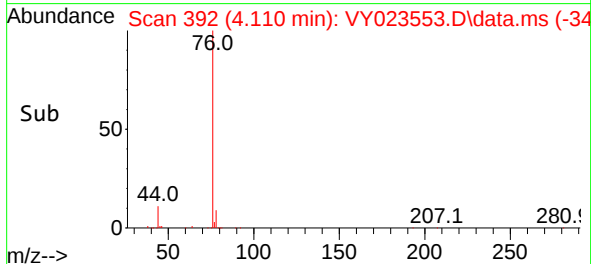
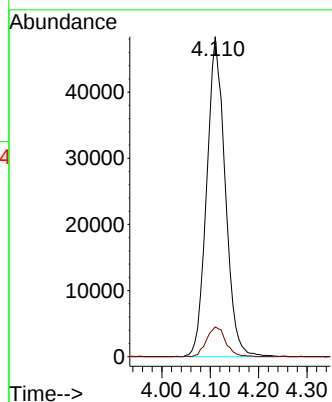
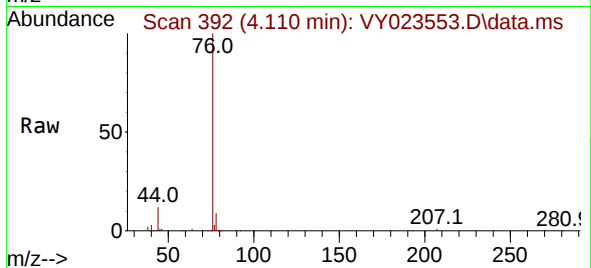




#17
Carbon Disulfide
Concen: 5.326 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

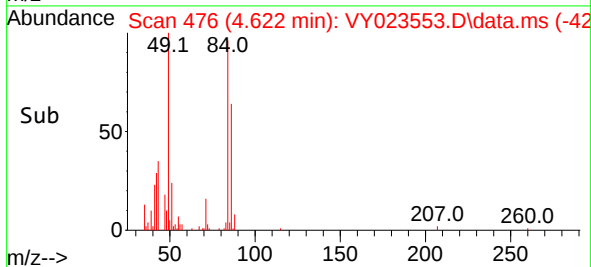
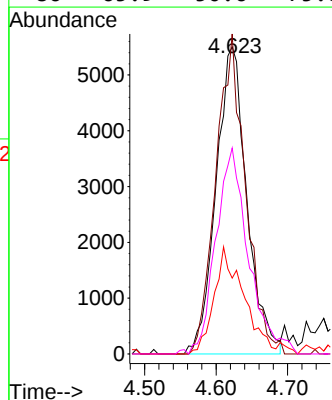
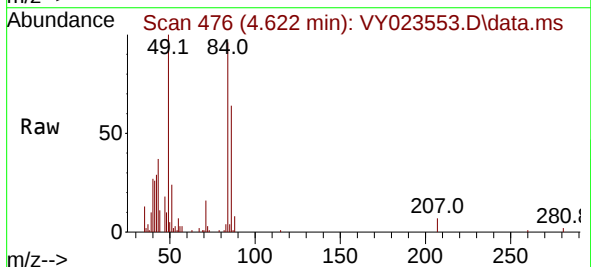
Instrument :
MSVOA_Y
ClientSampleId :
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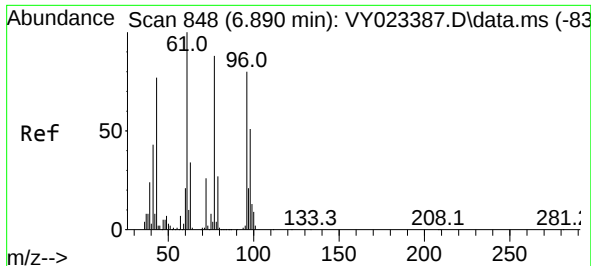
Tgt Ion: 76 Resp: 128146
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9



#20
Methylene Chloride
Concen: 1.628 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

Tgt Ion: 84 Resp: 16514
Ion Ratio Lower Upper
84 100
49 104.2 80.2 120.4
51 24.7 25.9 38.9#
86 65.9 50.6 75.8





#25

2-Butanone

Concen: 24.835 ug/l

RT: 6.903 min Scan# 848

Delta R.T. 0.012 min

Lab File: VY023553.D

Acq: 22 Oct 2025 15:58

Instrument :

MSVOA_Y

ClientSampleId :

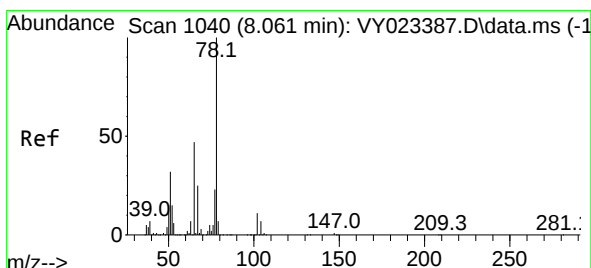
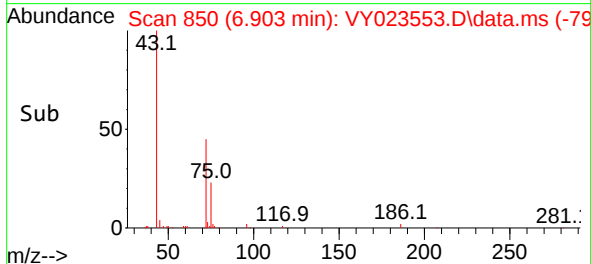
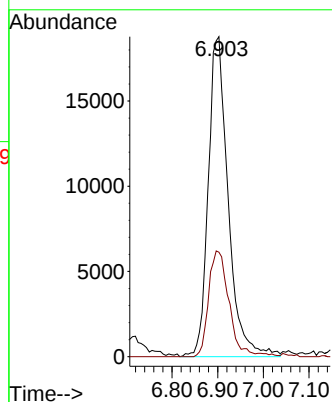
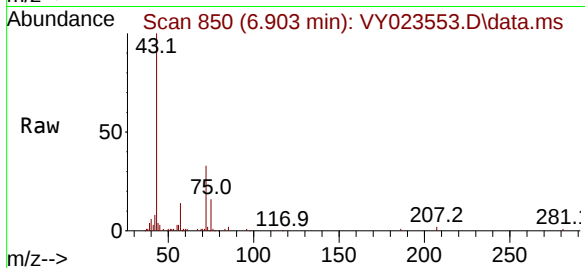
PR132-S16-094119-20251021

Tgt Ion: 43 Resp: 56883

Ion Ratio Lower Upper

43 100

72 32.7 27.4 41.2



#33

1,2-Dichloroethane-d4

Concen: 51.973 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023553.D

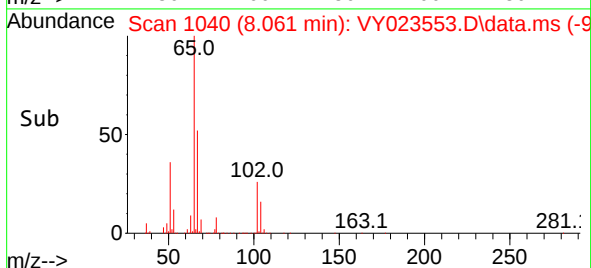
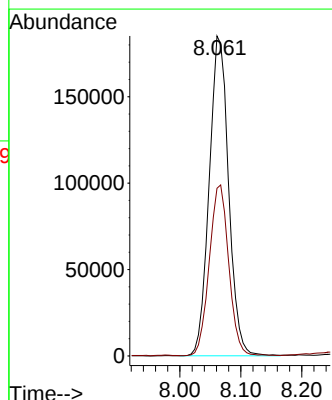
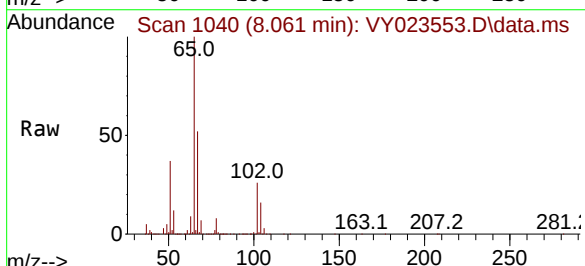
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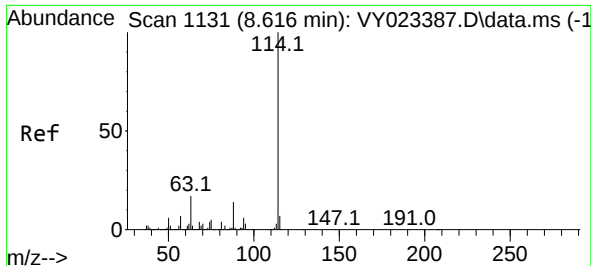
Tgt Ion: 65 Resp: 409580

Ion Ratio Lower Upper

65 100

67 53.6 0.0 105.8

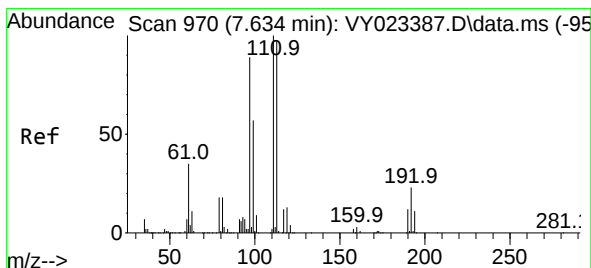
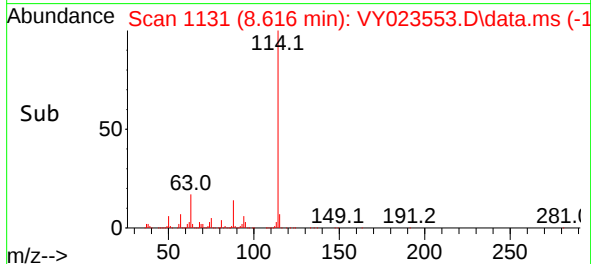
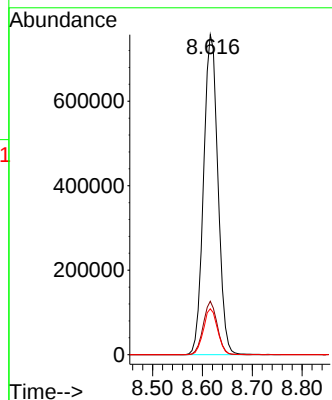
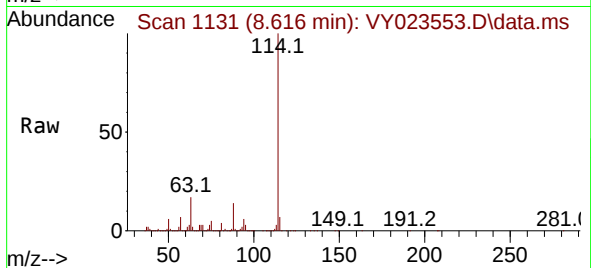




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

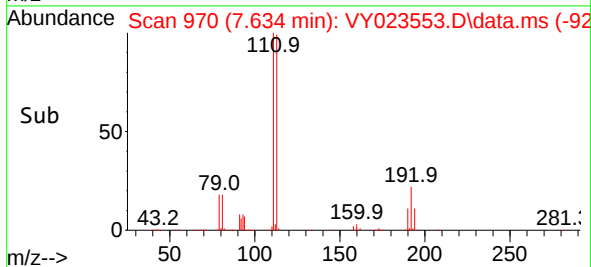
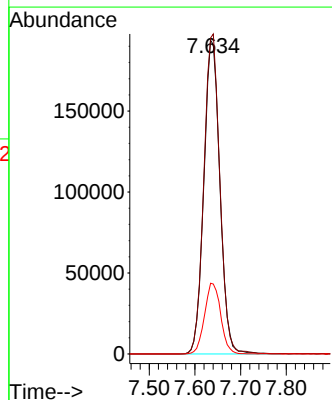
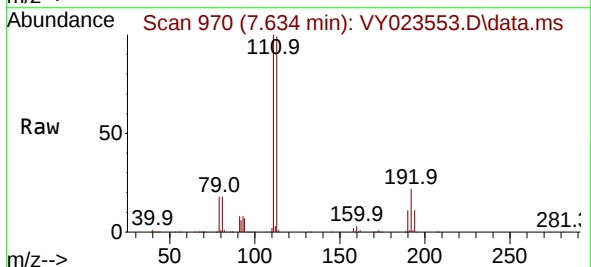
Instrument :
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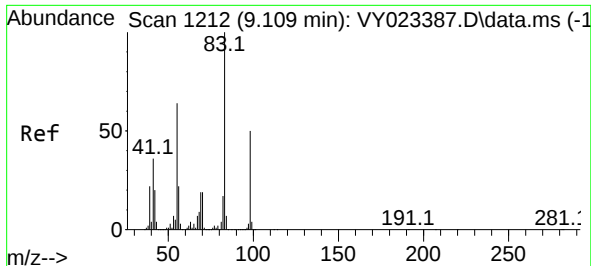
Tgt Ion:114 Resp: 1514027
Ion Ratio Lower Upper
114 100
63 16.7 0.0 34.2
88 14.3 0.0 28.4



#35
Dibromofluoromethane
Concen: 50.793 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

Tgt Ion:113 Resp: 472529
Ion Ratio Lower Upper
113 100
111 101.9 81.8 122.6
192 22.7 18.0 27.0

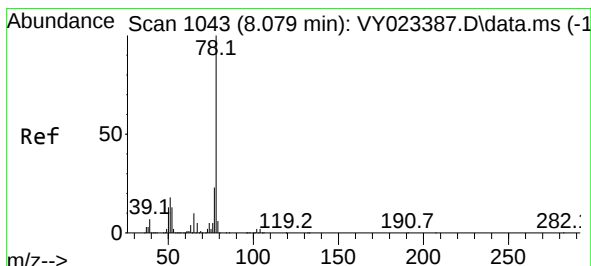
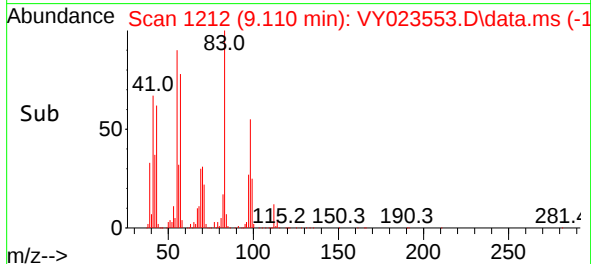
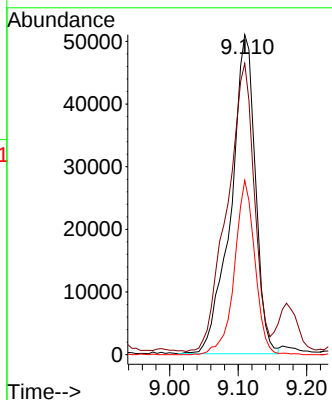
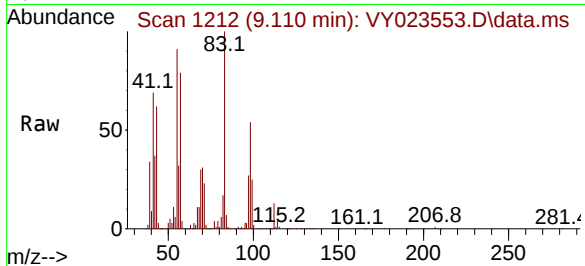




#39
Methylcyclohexane
Concen: 7.883 ug/l
RT: 9.110 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

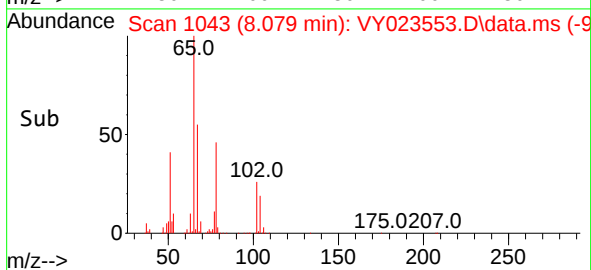
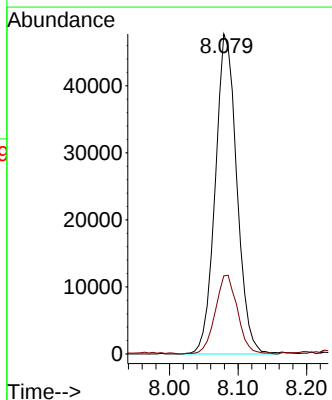
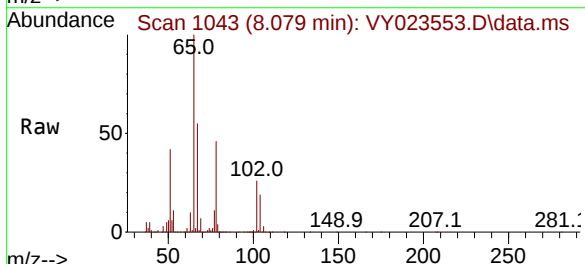
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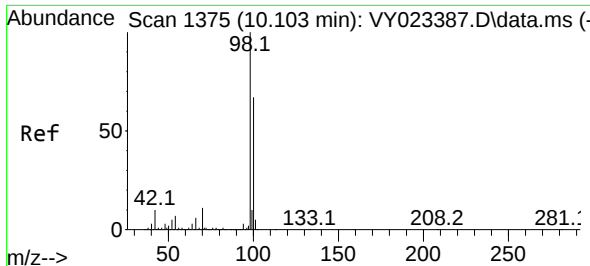
Tgt Ion: 83 Resp: 126416
Ion Ratio Lower Upper
83 100
55 90.1 51.4 77.2#
98 54.6 40.4 60.6



#40
Benzene
Concen: 2.674 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

Tgt Ion: 78 Resp: 104295
Ion Ratio Lower Upper
78 100
77 24.4 18.3 27.5

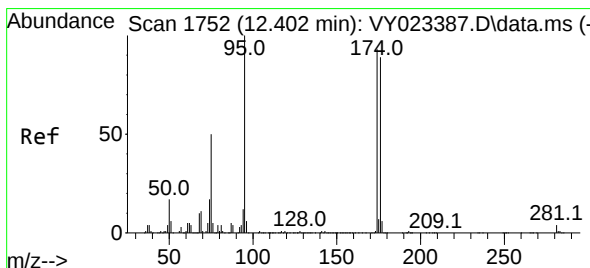
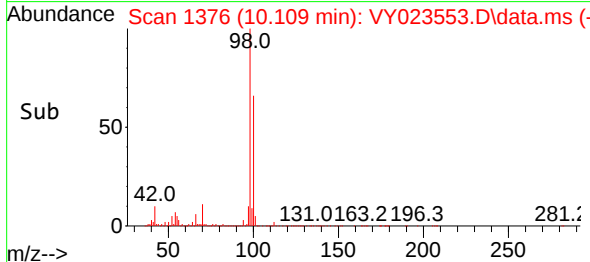
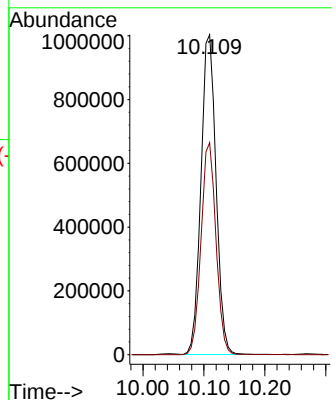
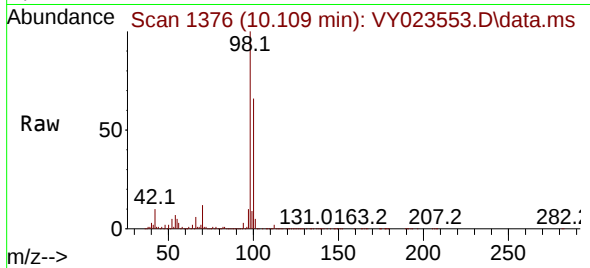




#50
Toluene-d8
Concen: 49.799 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

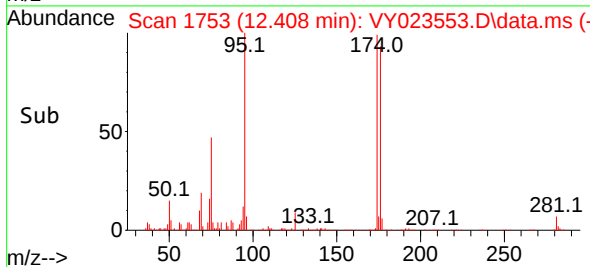
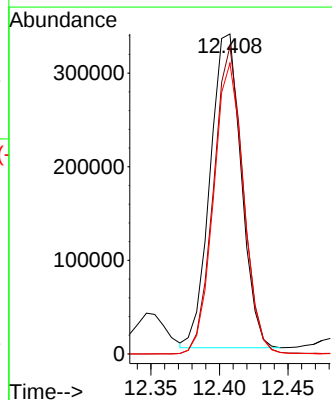
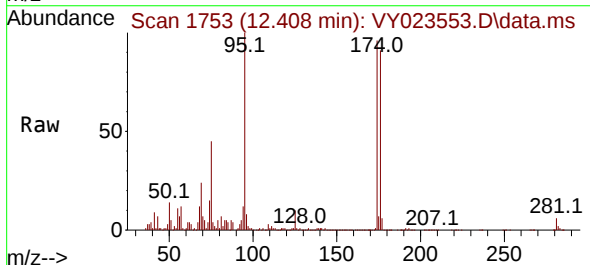
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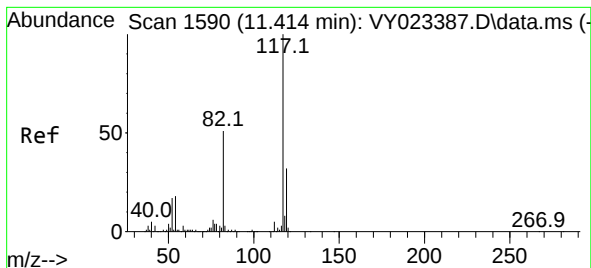
Tgt Ion: 98 Resp: 1725302
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 46.299 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

Tgt Ion: 95 Resp: 529575
Ion Ratio Lower Upper
95 100
174 93.6 0.0 192.8
176 89.7 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 117

Delta R.T. 0.000 min

Lab File: VY023553.D

Acq: 22 Oct 2025 15:58

Instrument :

MSVOA_Y

ClientSampleId :

PR132-S16-094119-20251021

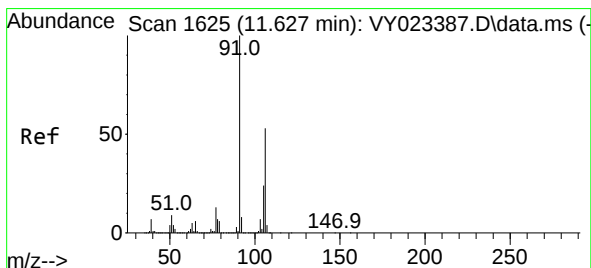
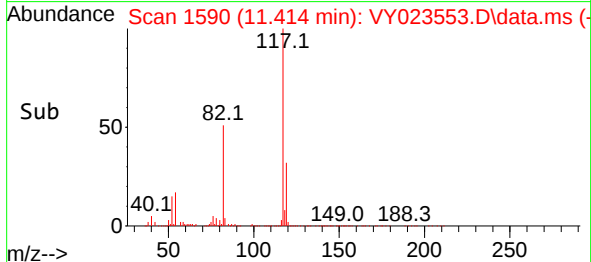
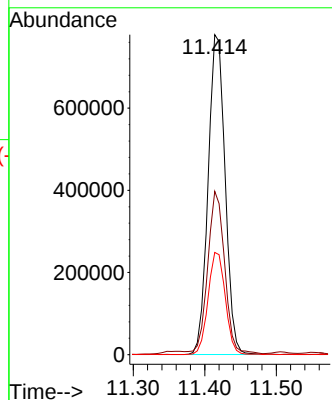
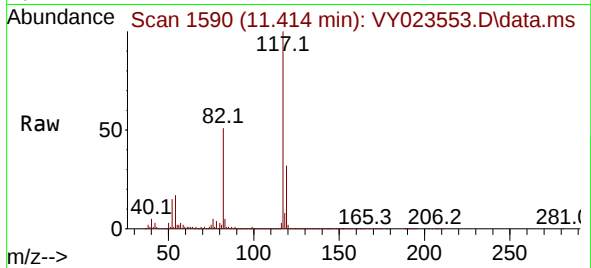
Tgt Ion:117 Resp: 1286219

Ion Ratio Lower Upper

117 100

82 50.2 41.0 61.4

119 31.9 25.6 38.4



#68

m/p-Xylenes

Concen: 3.397 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY023553.D

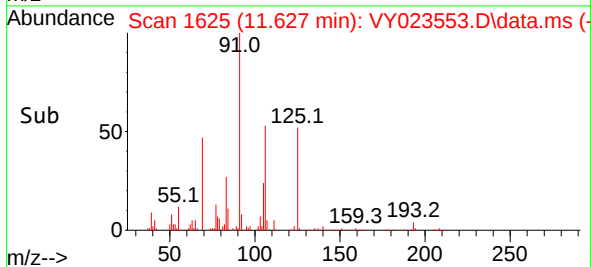
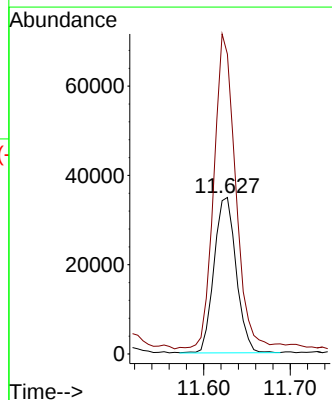
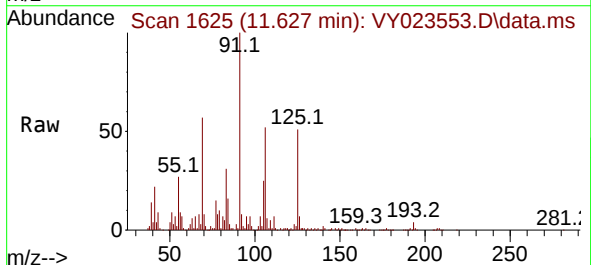
Acq: 22 Oct 2025 15:58

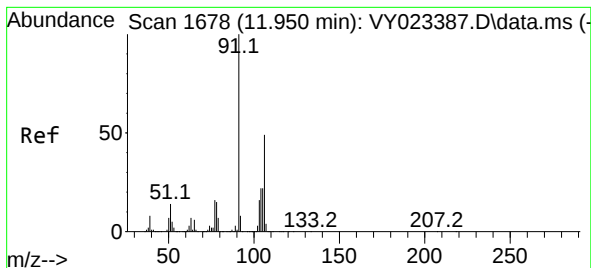
Tgt Ion:106 Resp: 61705

Ion Ratio Lower Upper

106 100

91 202.3 152.6 229.0





#69

o-Xylene

Concen: 8.524 ug/l

RT: 11.957 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023553.D

Acq: 22 Oct 2025 15:58

Instrument :

MSVOA_Y

ClientSampleId :

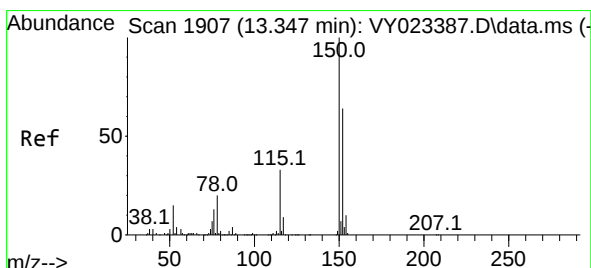
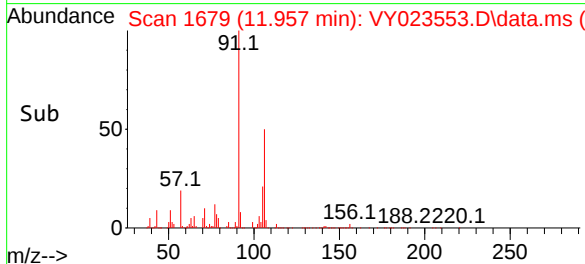
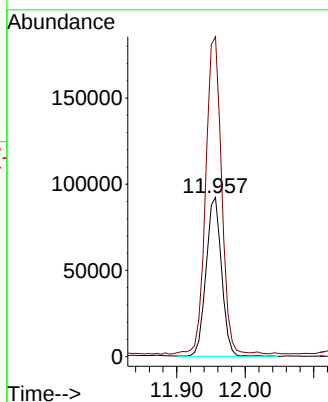
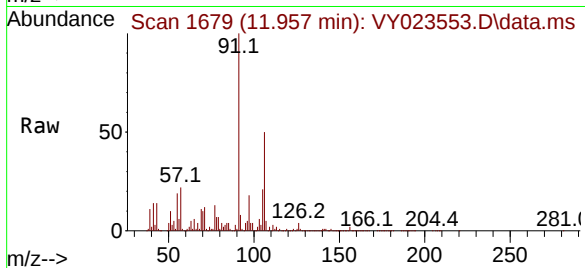
PR132-S16-094119-20251021

Tgt Ion:106 Resp: 145222

Ion Ratio Lower Upper

106 100

91 204.6 101.4 304.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023553.D

Acq: 22 Oct 2025 15:58

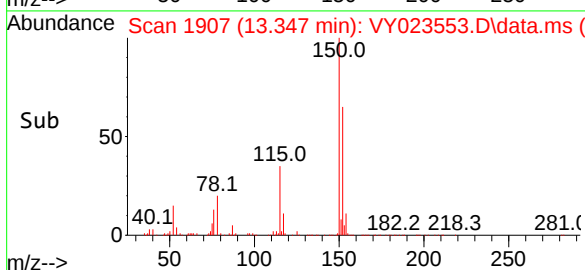
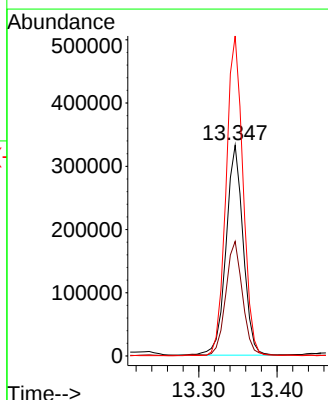
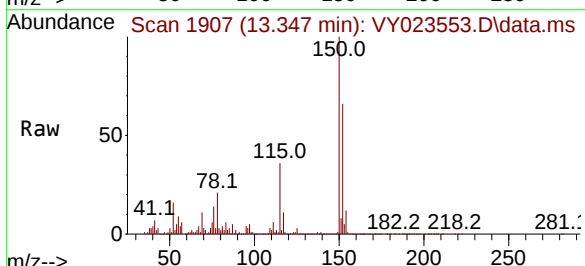
Tgt Ion:152 Resp: 504876

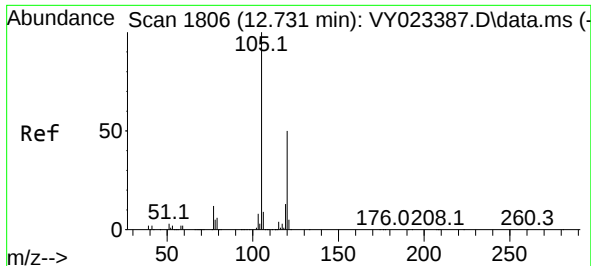
Ion Ratio Lower Upper

152 100

115 52.6 27.1 81.2

150 149.7 0.0 347.4

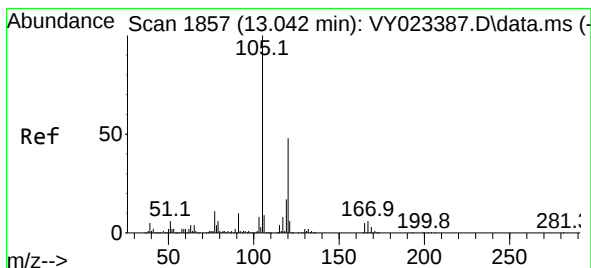
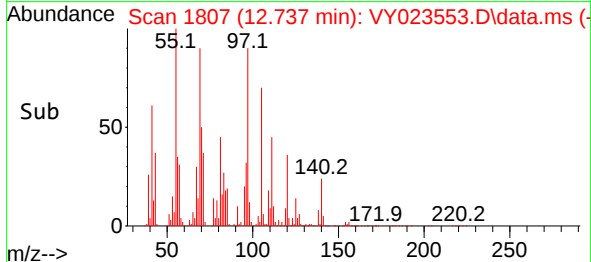
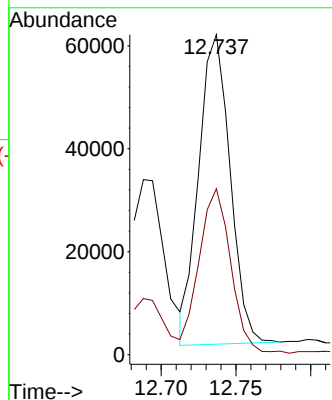
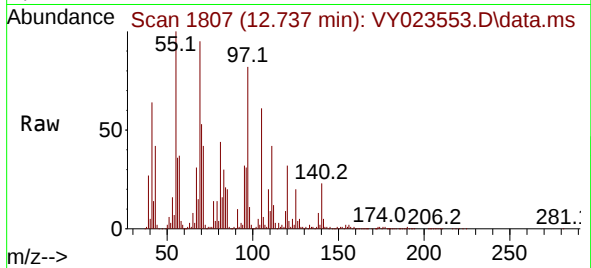




#80
1,3,5-Trimethylbenzene
Concen: 3.265 ug/l
RT: 12.737 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S16-094119-20251021

Tgt Ion:105 Resp: 87778
Ion Ratio Lower Upper
105 100
120 53.7 25.4 76.4



#84
1,2,4-Trimethylbenzene
Concen: 5.605 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023553.D
Acq: 22 Oct 2025 15:58

Tgt Ion:105 Resp: 150406
Ion Ratio Lower Upper
105 100
120 45.4 23.8 71.2

