

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-S14-000094-20251021

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)

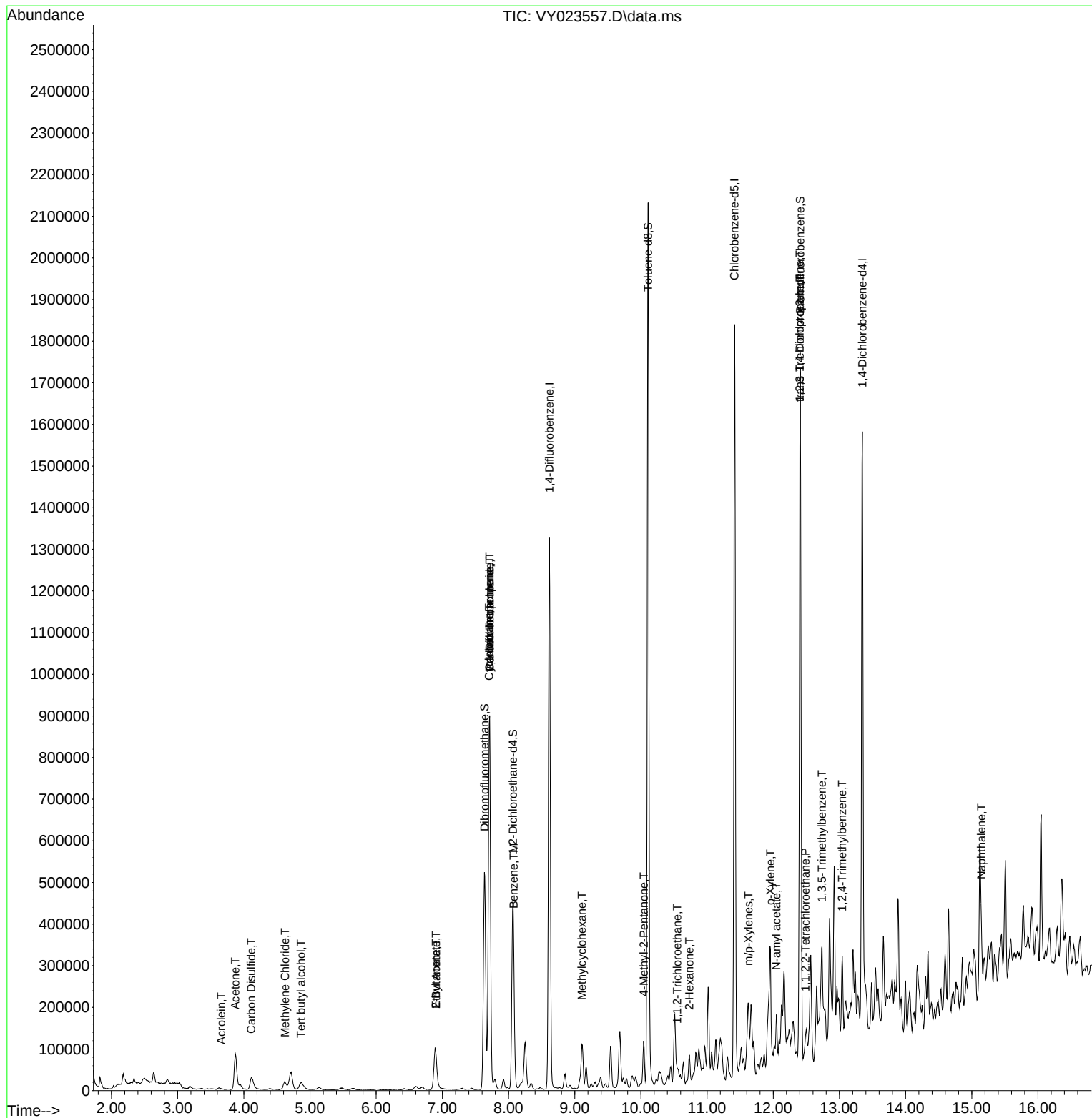
Internal Standards						
1) Pentafluorobenzene	7.713	168	766523	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1219443	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1038965	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	408239	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	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
13) Acrolein	3.659	56	1282	1.903	ug/l #	15
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
31) Cyclohexane	7.707	56	18025	1.690	ug/l #	19
36) 1,1-Dichloropropene	7.713	75	47426	4.781	ug/l #	48
37) Ethyl Acetate	6.902	43	37182	9.461	ug/l #	83
38) Carbon Tetrachloride	7.713	117	69624	5.788	ug/l #	16
39) Methylcyclohexane	9.109	83	33569	2.599	ug/l #	89
40) Benzene	8.079	78	77924	2.480	ug/l	97
51) 4-Methyl-2-Pentanone	10.042	43	8566	2.116	ug/l	91
55) 1,1,2-Trichloroethane	10.548	97	13864	2.350	ug/l #	25
59) 2-Hexanone	10.731	43	21447	7.412	ug/l #	28
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
74) N-amyl acetate	12.048	43	28128	5.821	ug/l #	55
75) 1,1,2,2-Tetrachloroethane	12.487	83	5153	1.171	ug/l #	28
76) 1,2,3-Trichloropropane	12.401	75	198443	55.096	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	40212	1.850	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.401	75	198443	135.106	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.042	105	92667	4.271	ug/l	99
95) Naphthalene	15.145	128	93698	7.730	ug/l #	94

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

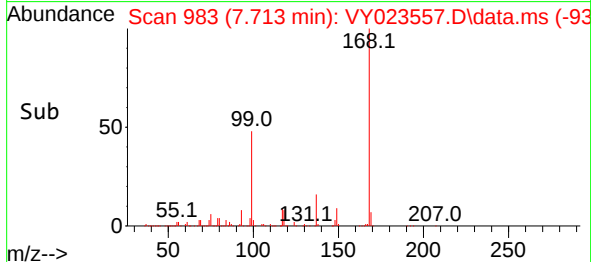
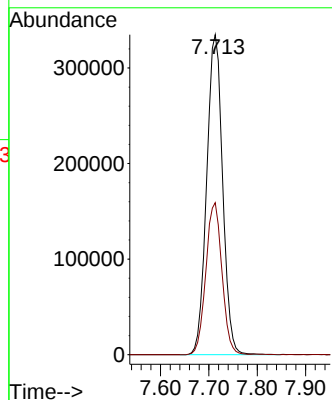
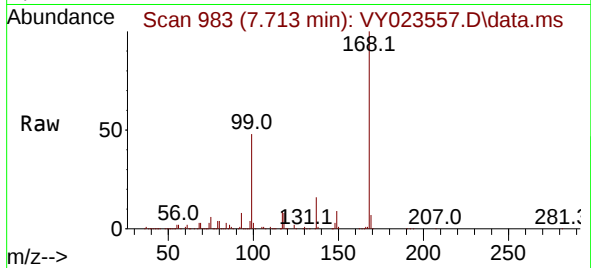




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

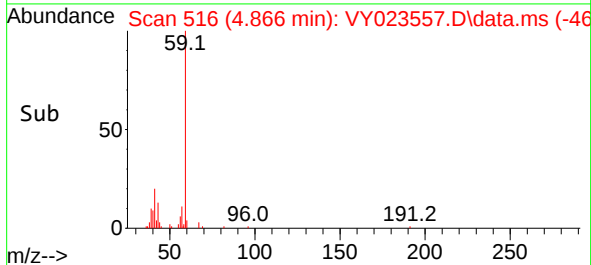
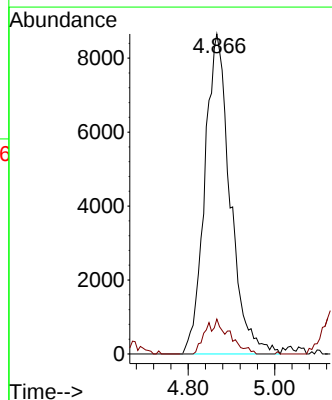
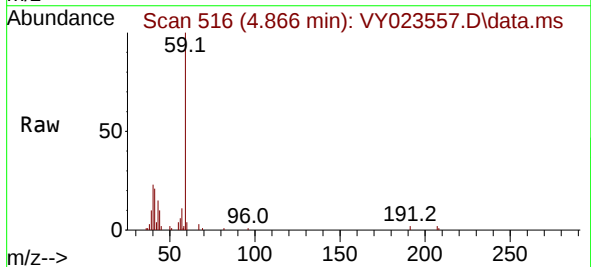
Instrument :
MSVOA_Y
ClientSampleId :
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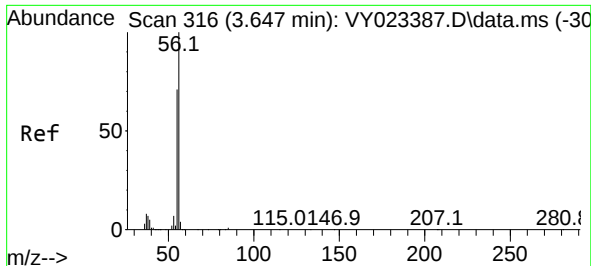
Tgt Ion:168 Resp: 766523
Ion Ratio Lower Upper
168 100
99 47.5 39.7 59.5



#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#

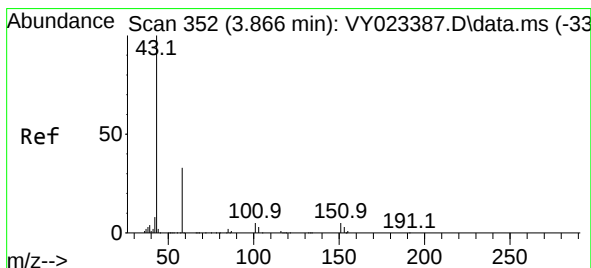
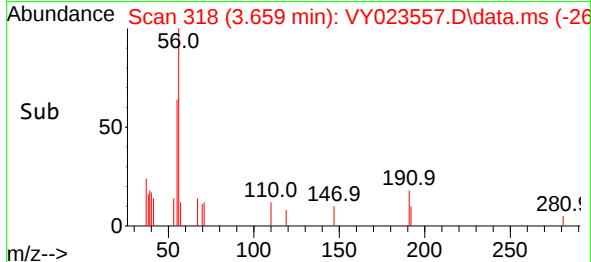
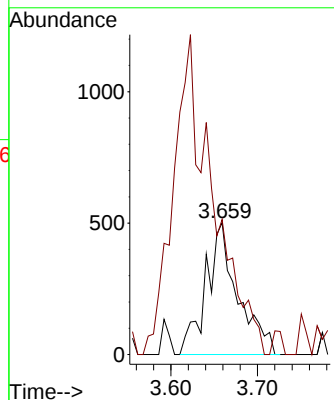
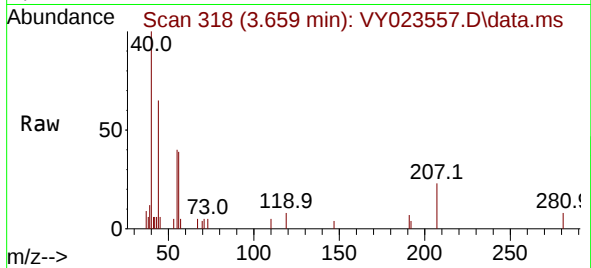




#13
Acrolein
Concen: 1.903 ug/l
RT: 3.659 min Scan# 316
Delta R.T. 0.012 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

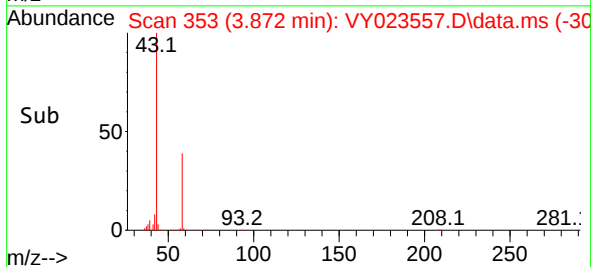
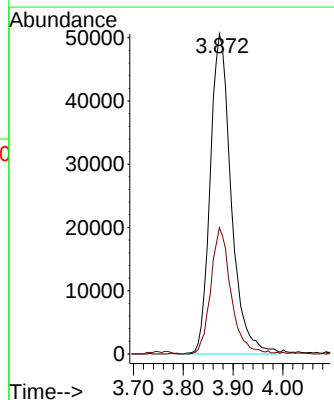
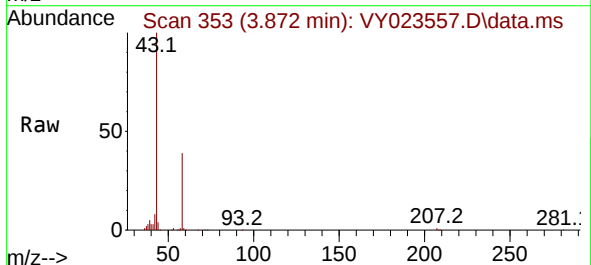
Instrument :
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ClientSampleId :
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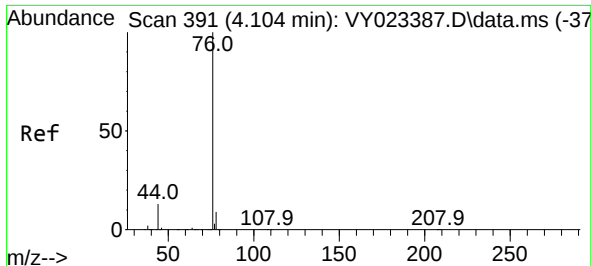
Tgt Ion: 56 Resp: 1282
Ion Ratio Lower Upper
56 100
55 0.0 56.1 84.1#



#16
Acetone
Concen: 97.036 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 43 Resp: 148073
Ion Ratio Lower Upper
43 100
58 39.3 27.7 41.5

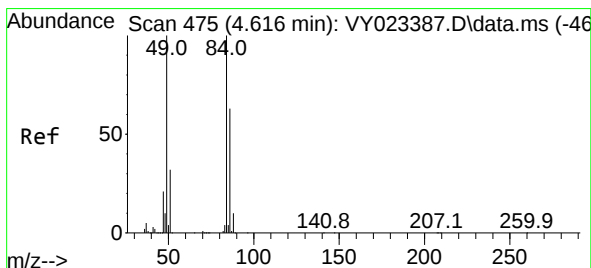
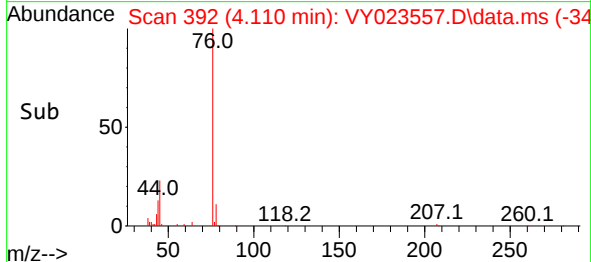
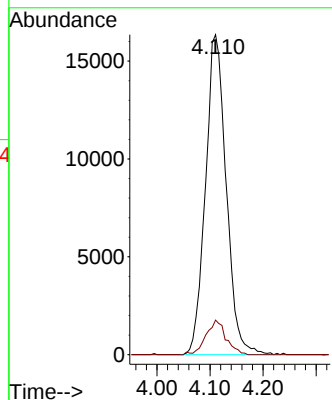
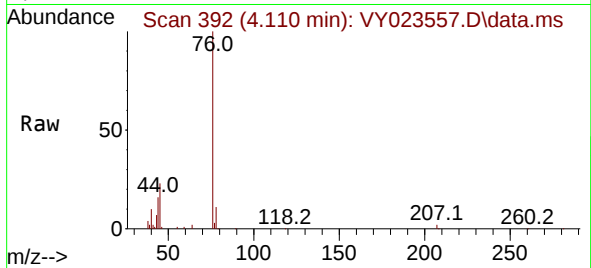




#17
Carbon Disulfide
Concen: 2.271 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

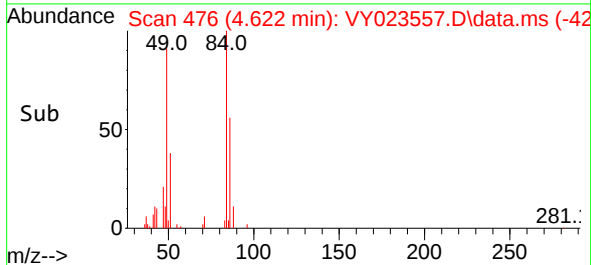
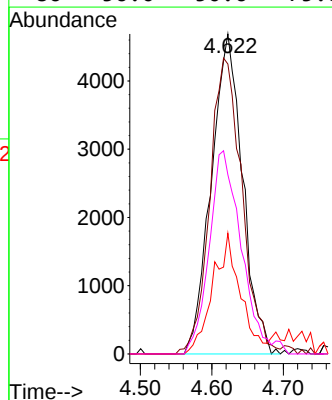
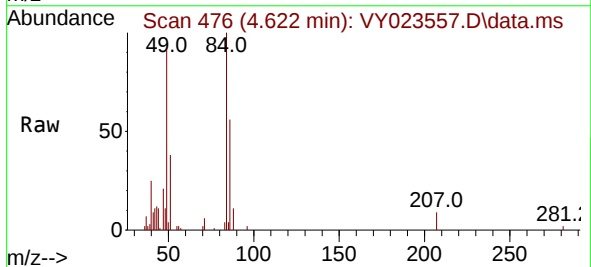
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S14-000094-20251021

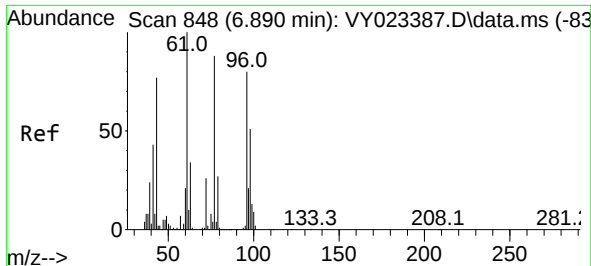
Tgt Ion: 76 Resp: 44448
Ion Ratio Lower Upper
76 100
78 10.8 7.3 10.9



#20
Methylene Chloride
Concen: 1.725 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

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

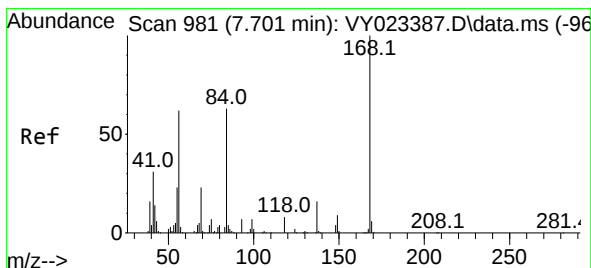
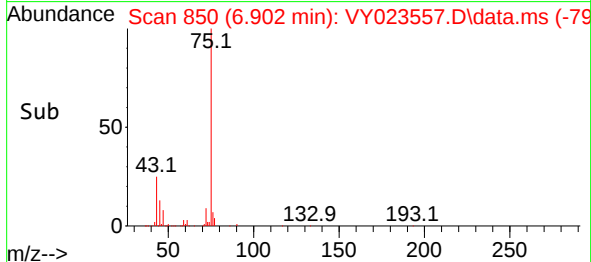
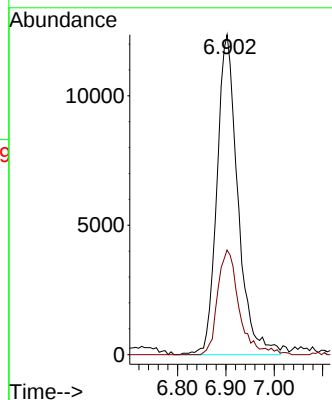
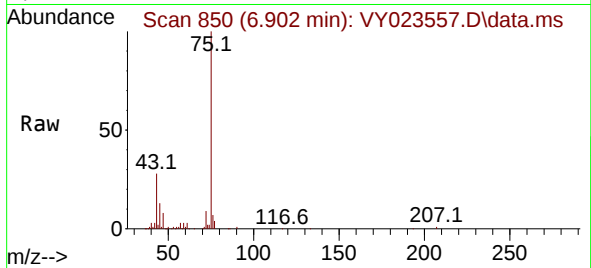




#25
2-Butanone
Concen: 19.959 ug/l
RT: 6.902 min Scan# 848
Delta R.T. 0.012 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

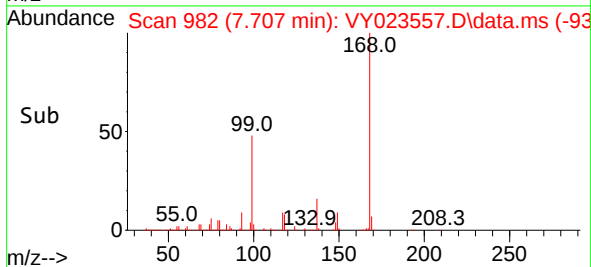
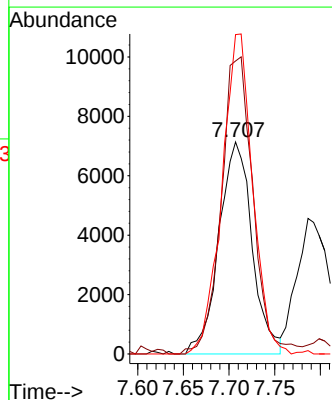
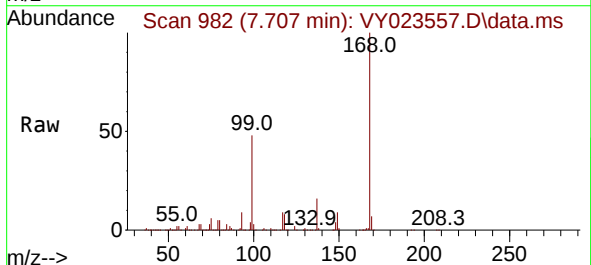
Instrument :
MSVOA_Y
ClientSampleId :
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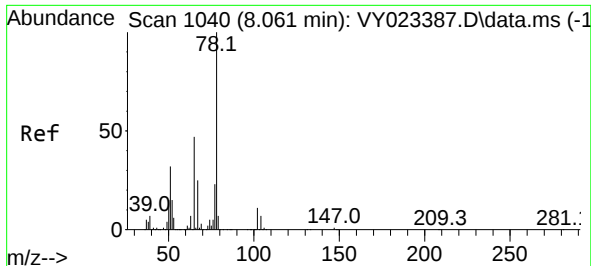
Tgt Ion: 43 Resp: 37182
Ion Ratio Lower Upper
43 100
72 32.7 27.4 41.2



#31
Cyclohexane
Concen: 1.690 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 56 Resp: 18025
Ion Ratio Lower Upper
56 100
69 138.2 30.0 45.0#
84 150.6 81.2 121.8#





#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 :

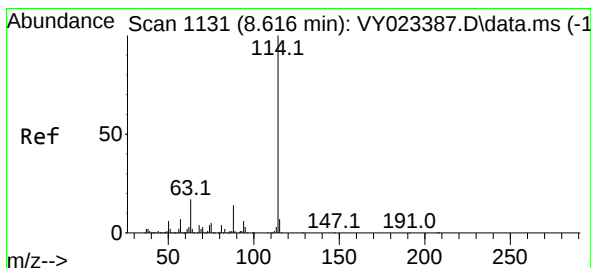
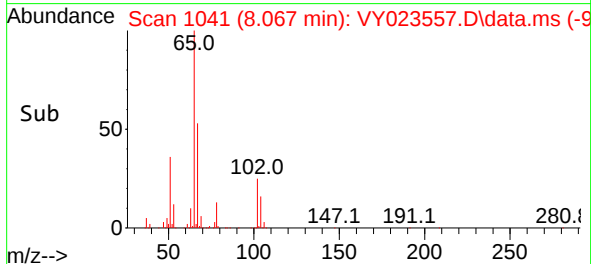
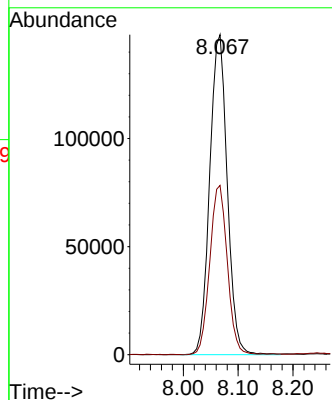
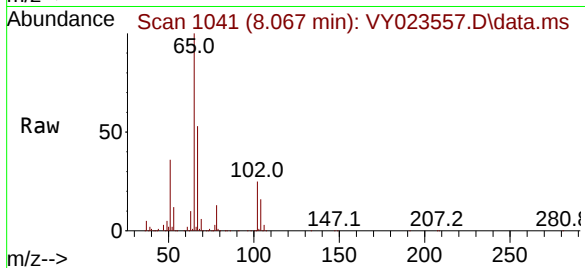
PR132-S14-000094-20251021

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

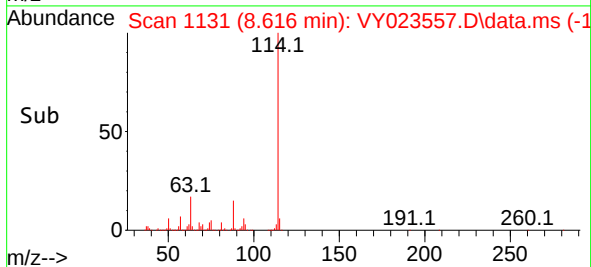
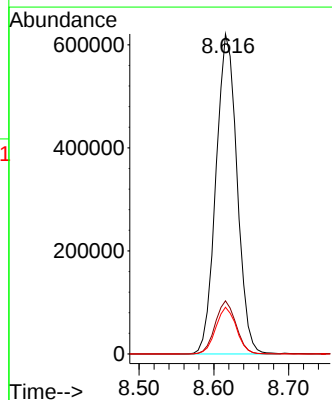
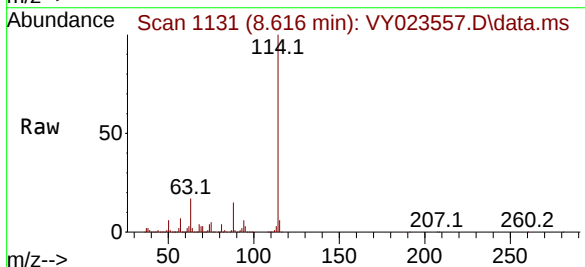
Tgt Ion: 114 Resp: 1219443

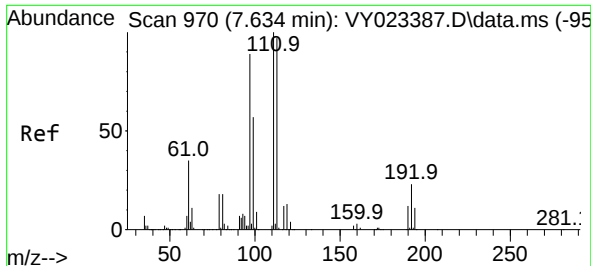
Ion Ratio Lower Upper

114 100

63 16.6 0.0 34.2

88 14.6 0.0 28.4

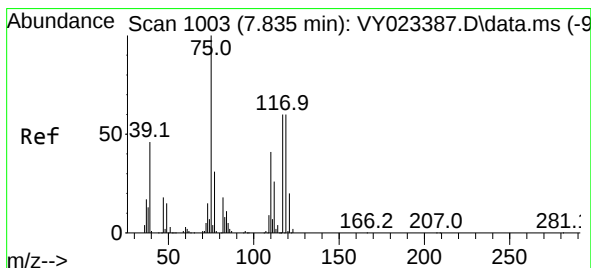
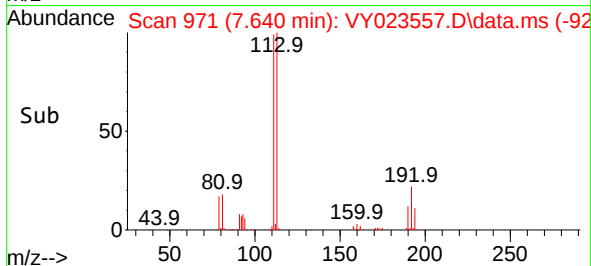
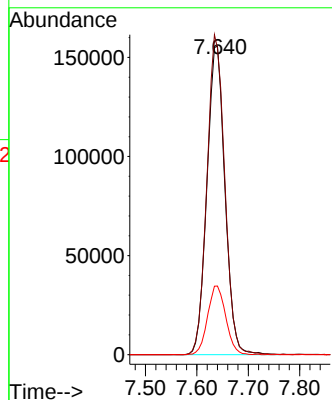
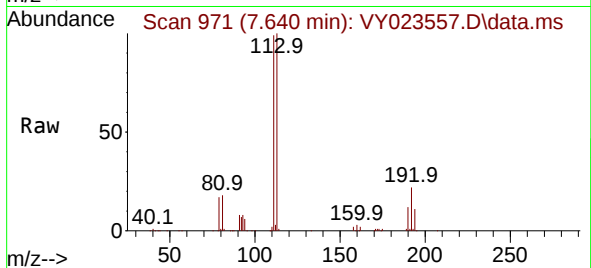




#35
Dibromofluoromethane
Concen: 50.755 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

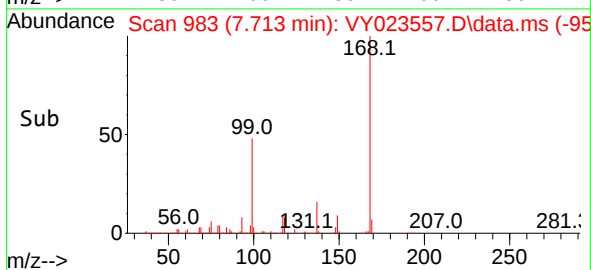
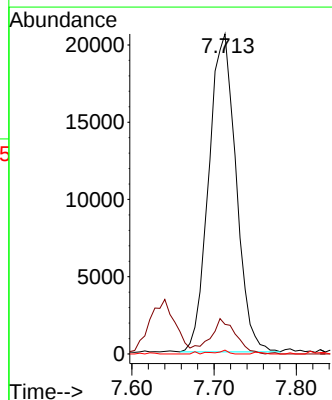
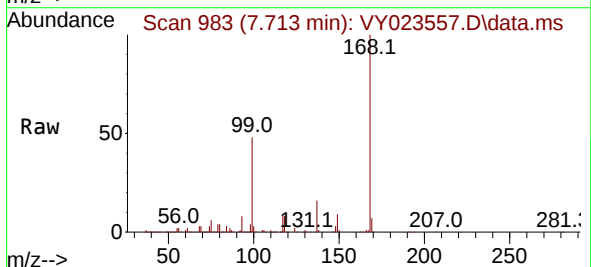
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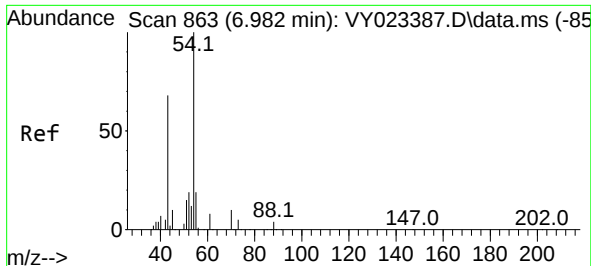
Tgt Ion:113 Resp: 380304
Ion Ratio Lower Upper
113 100
111 102.7 81.8 122.6
192 22.4 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.781 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 75 Resp: 47426
Ion Ratio Lower Upper
75 100
110 9.7 19.9 59.7#
77 0.0 25.0 37.6#

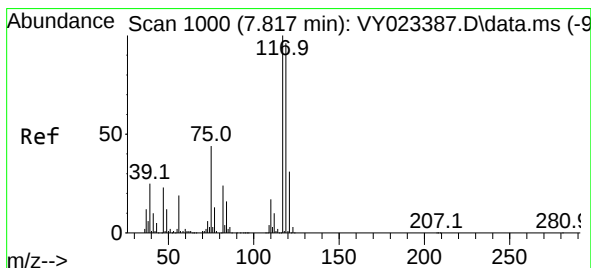
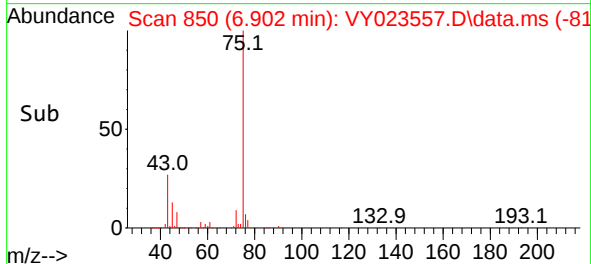
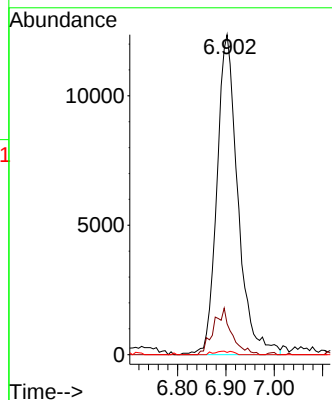
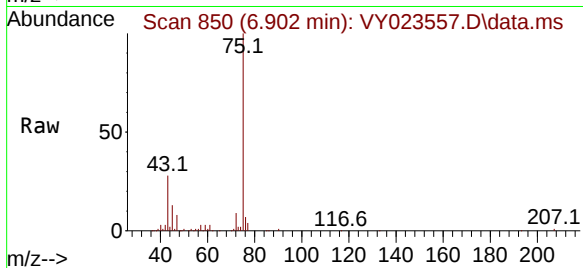




#37
Ethyl Acetate
Concen: 9.461 ug/l
RT: 6.902 min Scan# 81
Delta R.T. -0.079 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

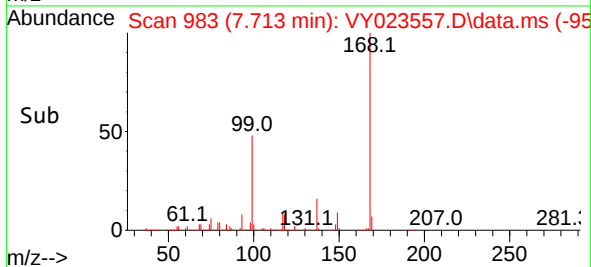
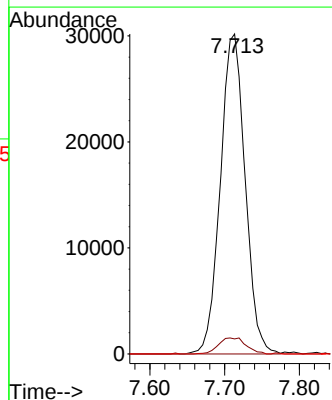
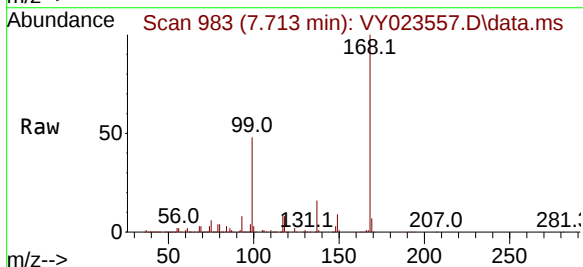
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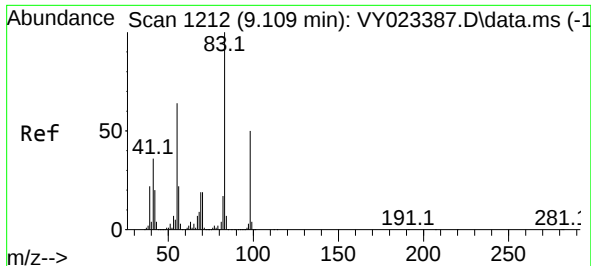
Tgt Ion: 43 Resp: 37182
Ion Ratio Lower Upper
43 100
61 12.7 11.8 17.8
70 1.0 10.5 15.7#



#38
Carbon Tetrachloride
Concen: 5.788 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.104 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 117 Resp: 69624
Ion Ratio Lower Upper
117 100
119 4.7 76.8 115.2#
121 0.0 24.5 36.7#





#39

Methylcyclohexane

Concen: 2.599 ug/l

RT: 9.109 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023557.D

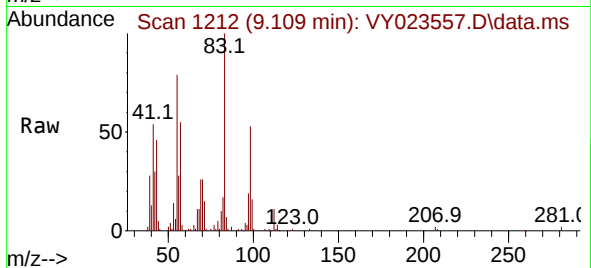
Acq: 22 Oct 2025 17:35

Instrument :

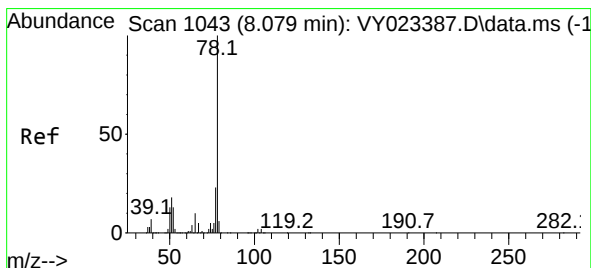
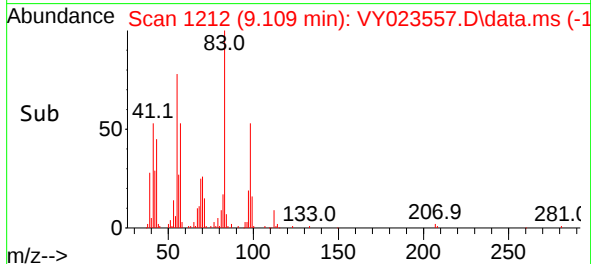
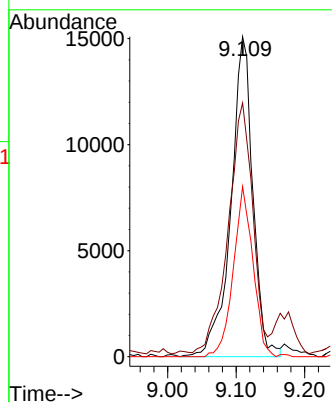
MSVOA_Y

ClientSampleId :

PR132-S14-000094-20251021



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

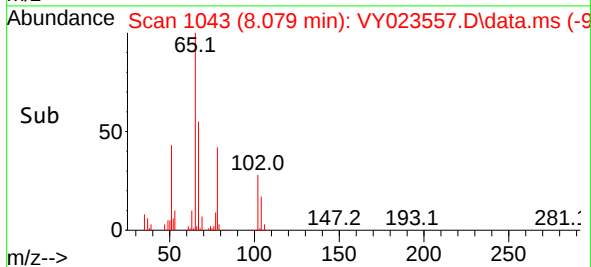
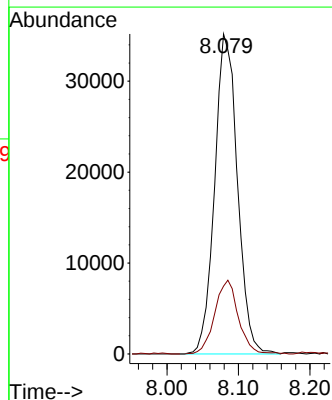
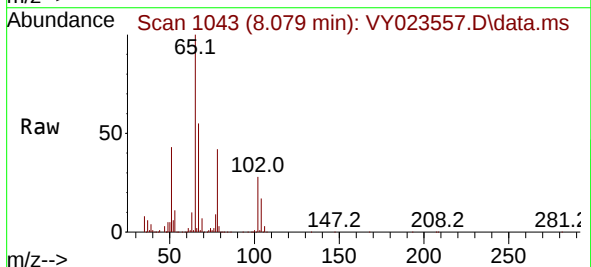
RT: 8.079 min Scan# 1043

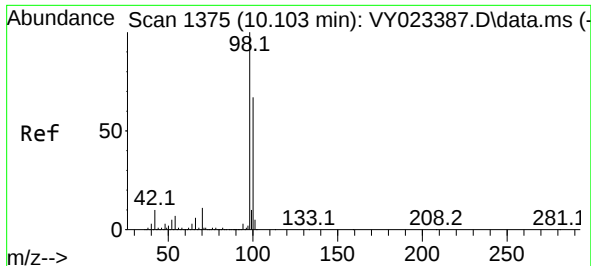
Delta R.T. -0.000 min

Lab File: VY023557.D

Acq: 22 Oct 2025 17:35

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

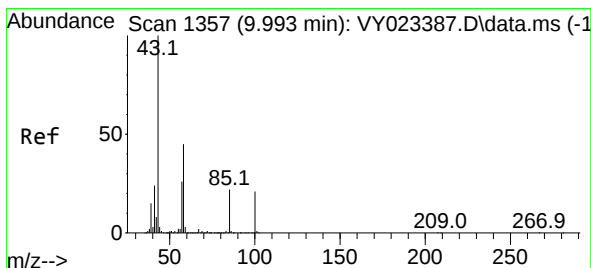
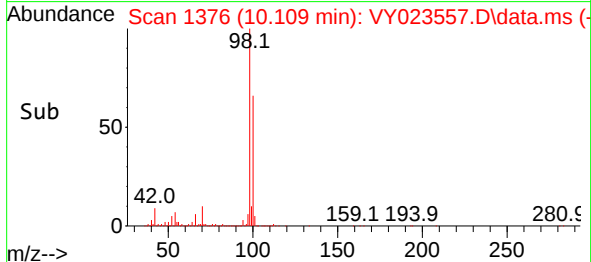
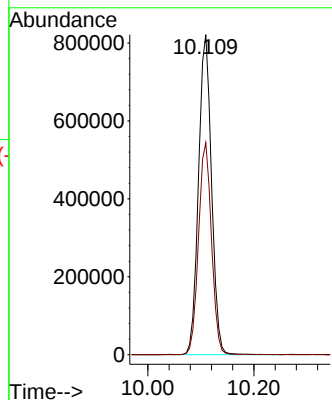
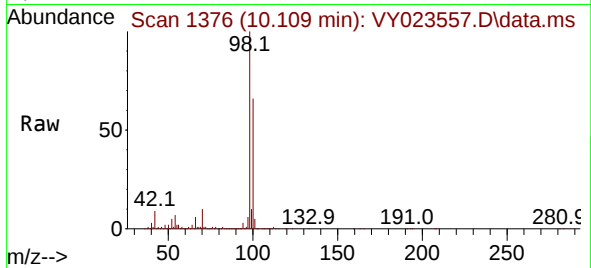




#50
Toluene-d8
Concen: 49.856 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

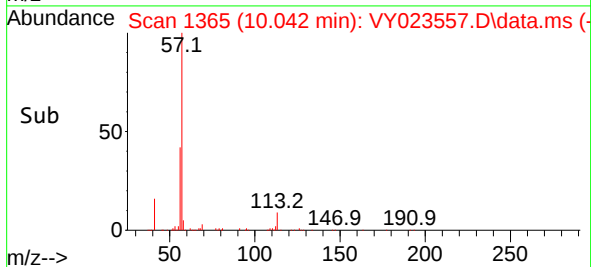
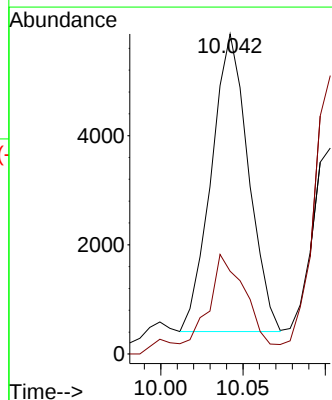
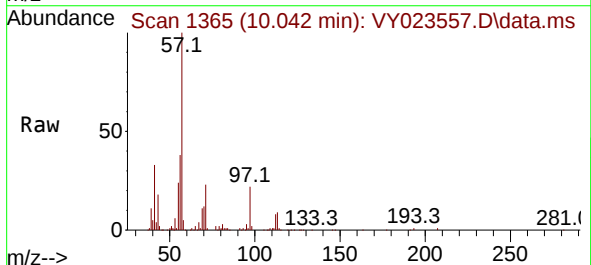
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S14-000094-20251021

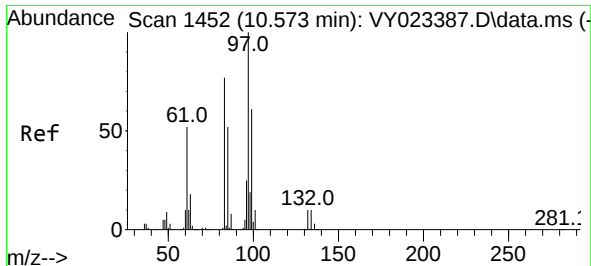
Tgt Ion: 98 Resp: 1391193
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 2.116 ug/l
RT: 10.042 min Scan# 1365
Delta R.T. 0.049 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 43 Resp: 8566
Ion Ratio Lower Upper
43 100
58 38.2 35.3 52.9

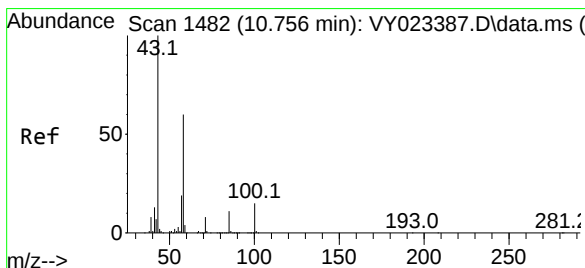
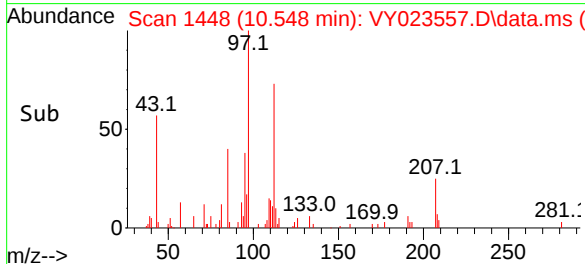
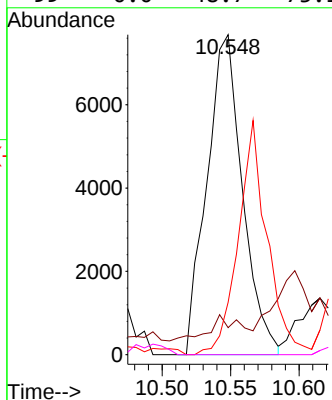
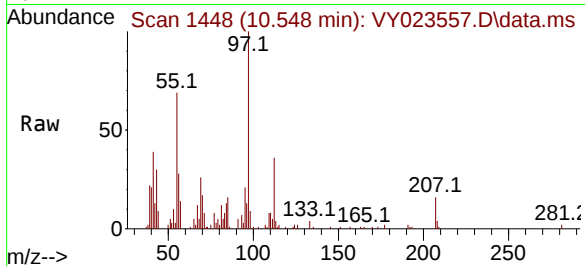




#55
1,1,2-Trichloroethane
Concen: 2.350 ug/l
RT: 10.548 min Scan# 1452
Delta R.T. -0.024 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

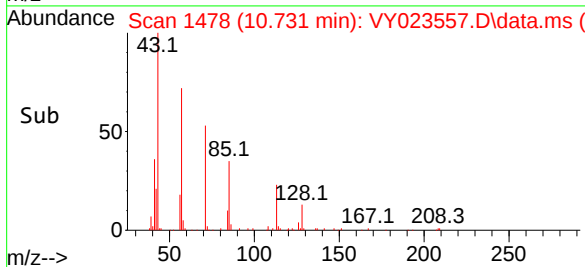
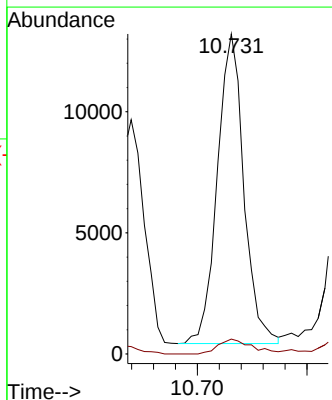
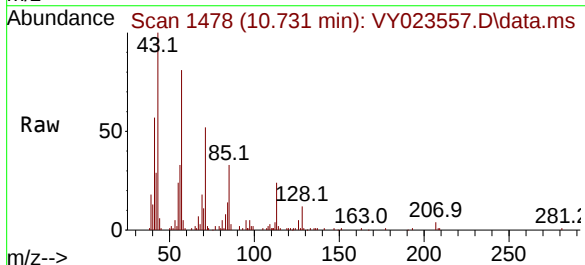
Instrument : MSVOA_Y
ClientSampleId : PR132-S14-000094-20251021

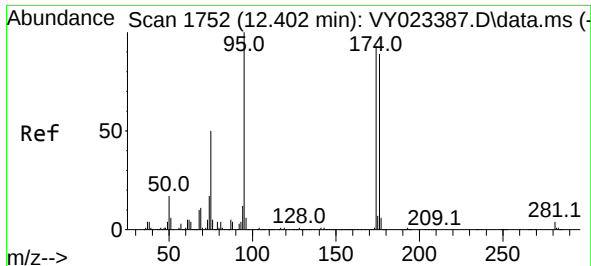
Tgt Ion: 97	Resp: 13864
Ion Ratio	Lower Upper
97 100	
83 3.3	61.8 92.6#
85 14.8	41.3 61.9#
99 0.0	48.7 73.1#



#59
2-Hexanone
Concen: 7.412 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.024 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 43	Resp: 21447		
Ion Ratio	Lower	Upper	
43 100			
58 6.1	30.5	91.5#	

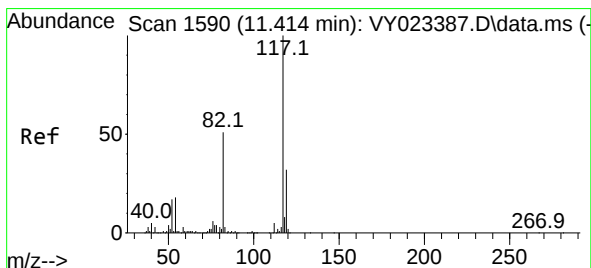
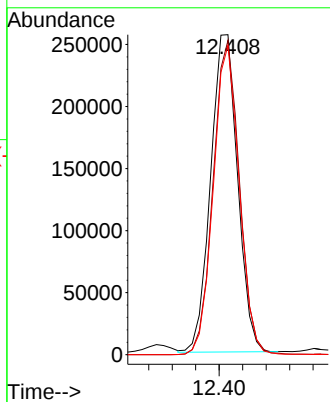
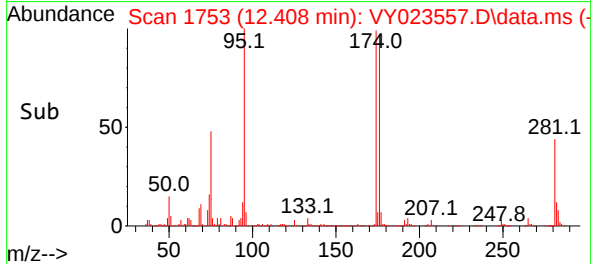
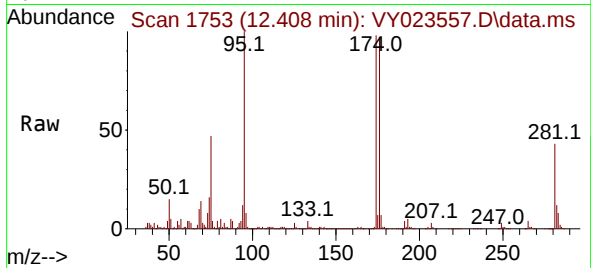




#62
4-Bromofluorobenzene
Concen: 44.306 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

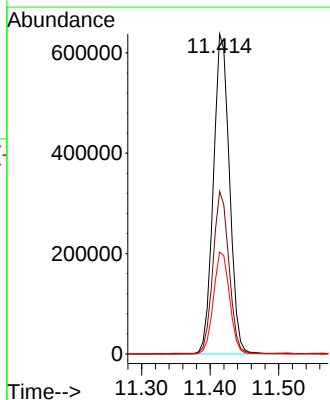
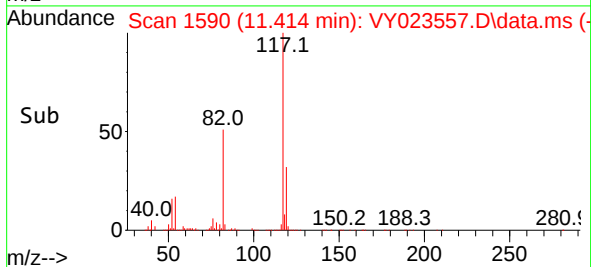
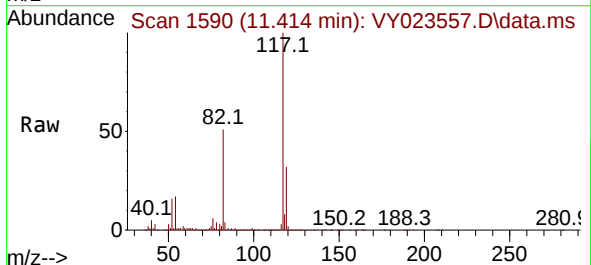
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S14-000094-20251021

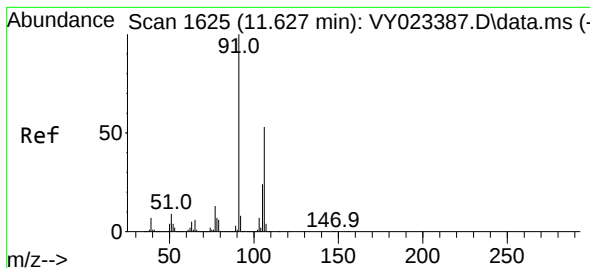
Tgt Ion: 95 Resp: 408169
Ion Ratio Lower Upper
95 100
174 96.4 0.0 192.8
176 93.6 0.0 187.6



#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

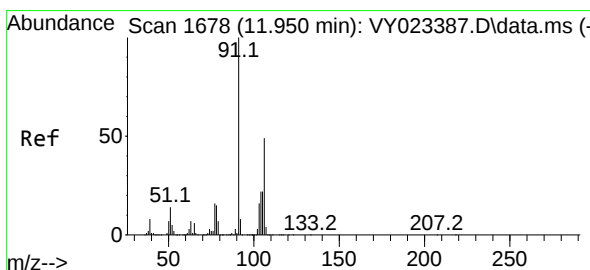
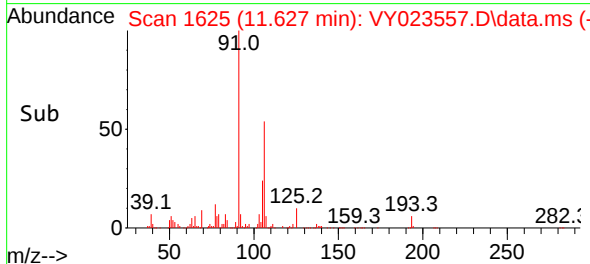
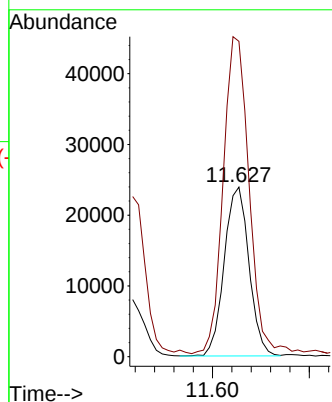
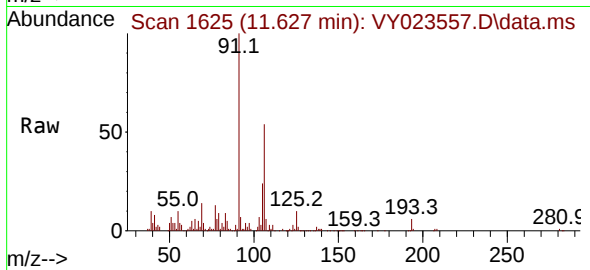




#68
m/p-Xylenes
Concen: 2.891 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

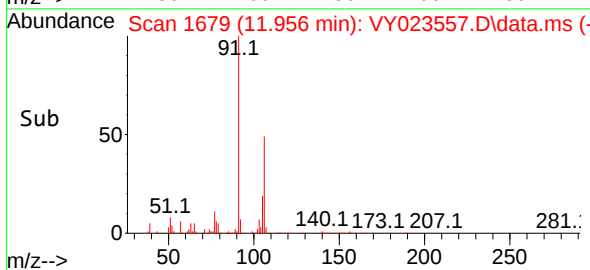
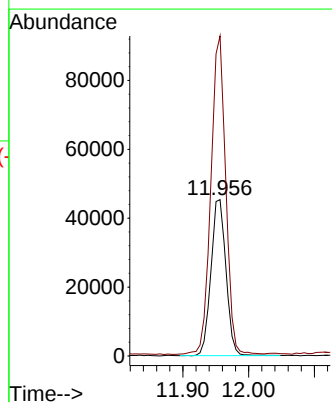
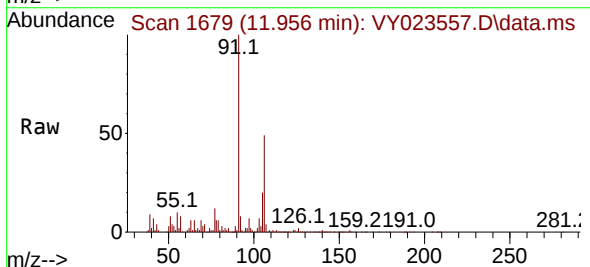
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S14-000094-20251021

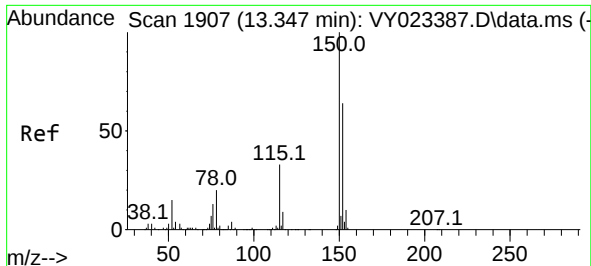
Tgt Ion:106 Resp: 42421
Ion Ratio Lower Upper
106 100
91 195.6 152.6 229.0



#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

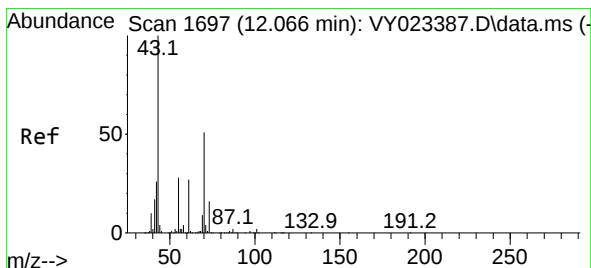
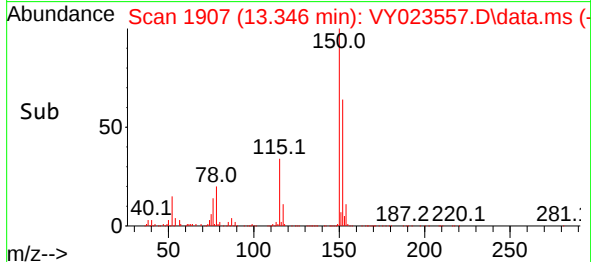
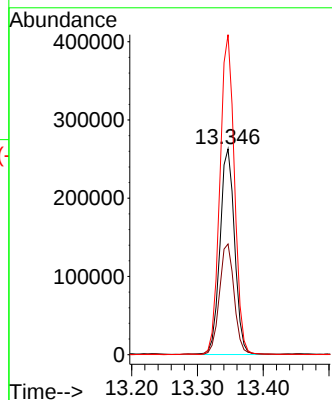
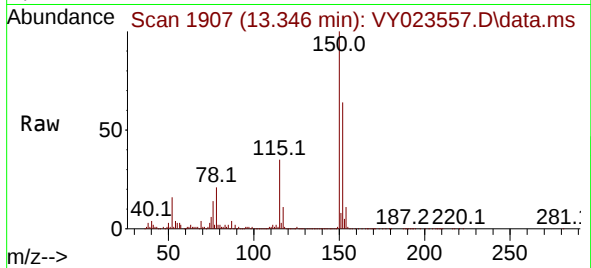




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY023557.D
 Acq: 22 Oct 2025 17:35

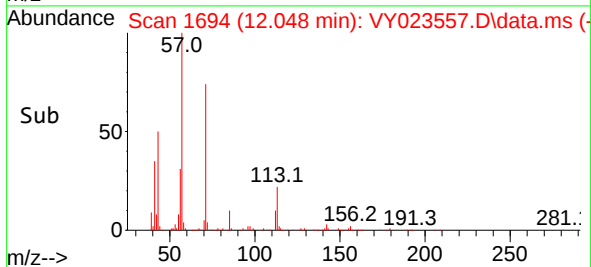
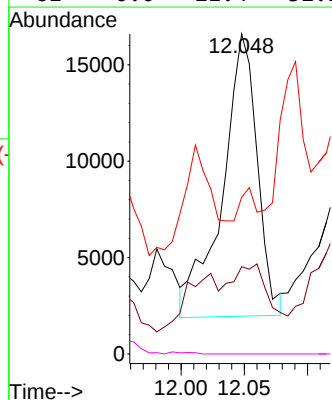
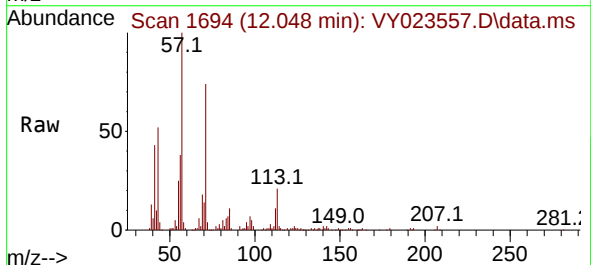
Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-S14-000094-20251021

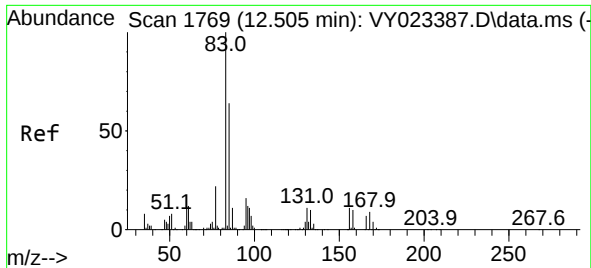
Tgt Ion:152 Resp: 408239
 Ion Ratio Lower Upper
 152 100
 115 53.8 27.1 81.2
 150 153.9 0.0 347.4



#74
 N-ethyl acetate
 Concen: 5.821 ug/l
 RT: 12.048 min Scan# 1694
 Delta R.T. -0.018 min
 Lab File: VY023557.D
 Acq: 22 Oct 2025 17:35

Tgt Ion: 43 Resp: 28128
 Ion Ratio Lower Upper
 43 100
 70 15.1 41.1 61.7#
 55 15.7 23.0 34.6#
 61 0.0 21.4 32.2#

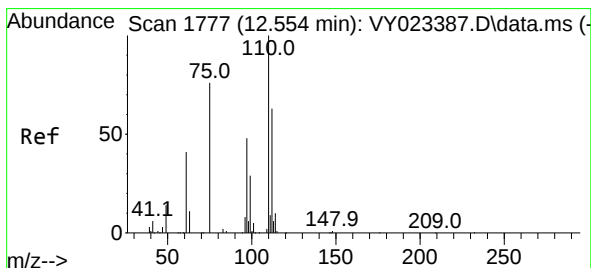
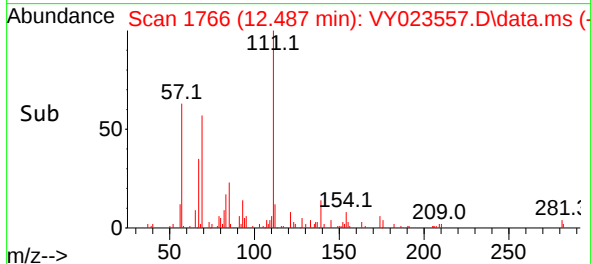
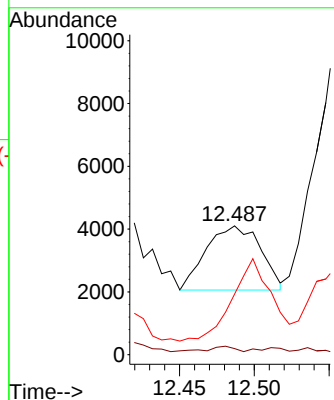
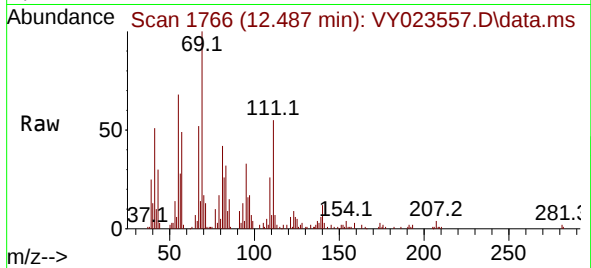




#75
1,1,2,2-Tetrachloroethane
Concen: 1.171 ug/l
RT: 12.487 min Scan# 1752
Delta R.T. -0.018 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

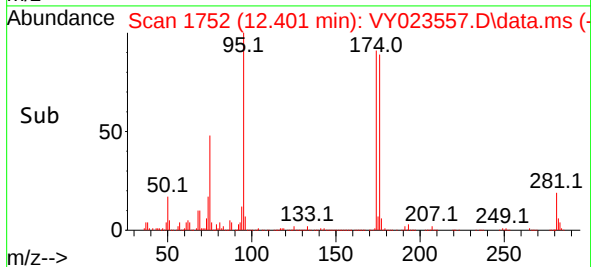
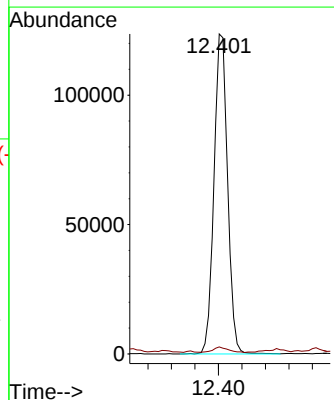
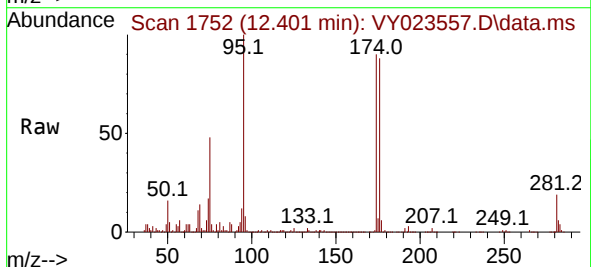
Instrument : MSVOA_Y
ClientSampleId : PR132-S14-000094-20251021

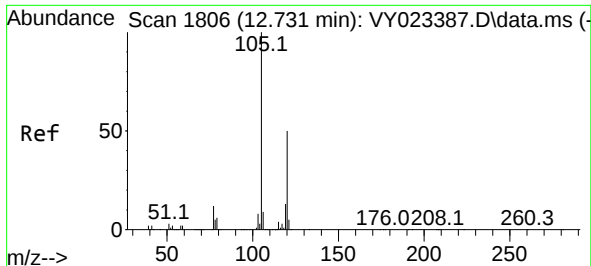
Tgt Ion: 83 Resp: 5153
Ion Ratio Lower Upper
83 100
131 3.8 5.9 17.6#
85 0.0 31.8 95.3#



#76
1,2,3-Trichloropropane
Concen: 55.096 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.153 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion: 75 Resp: 198443
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#

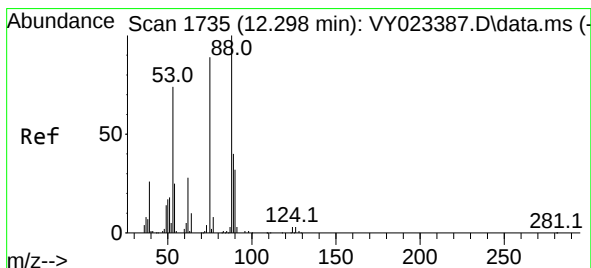
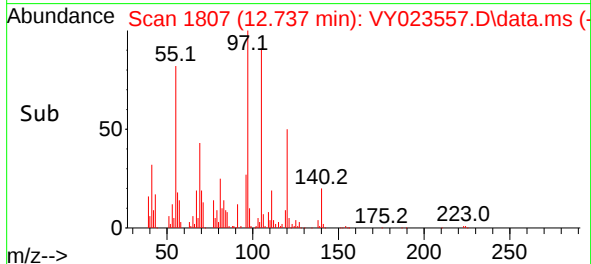
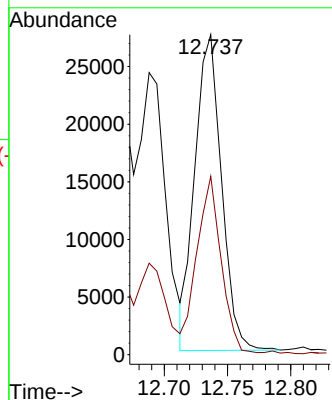
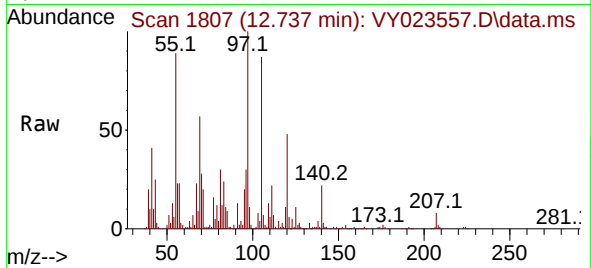




#80
 1,3,5-Trimethylbenzene
 Concen: 1.850 ug/l
 RT: 12.737 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VY023557.D
 Acq: 22 Oct 2025 17:35

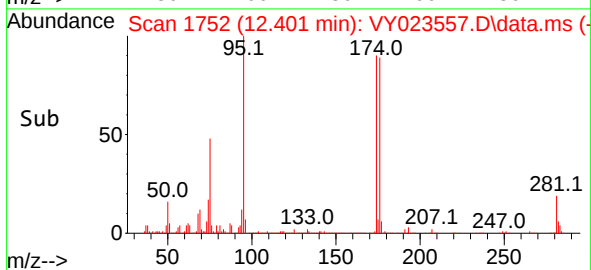
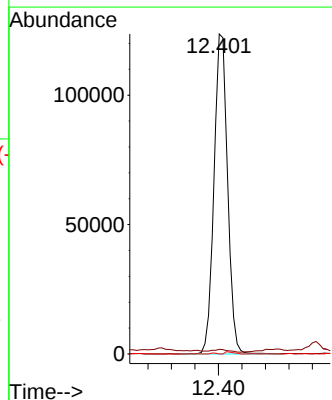
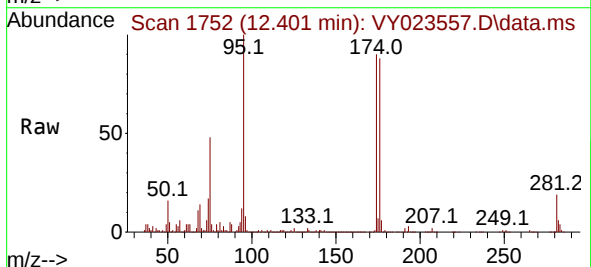
Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-S14-000094-20251021

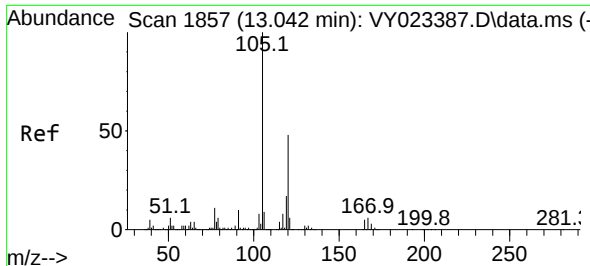
Tgt Ion:105 Resp: 40212
 Ion Ratio Lower Upper
 105 100
 120 50.7 25.4 76.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 135.106 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. 0.104 min
 Lab File: VY023557.D
 Acq: 22 Oct 2025 17:35

Tgt Ion: 75 Resp: 198443
 Ion Ratio Lower Upper
 75 100
 53 1.1 68.6 102.8#
 89 0.1 39.0 58.4#

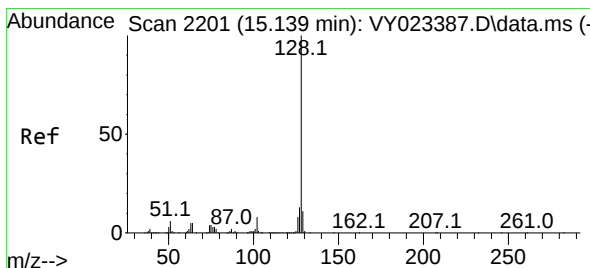
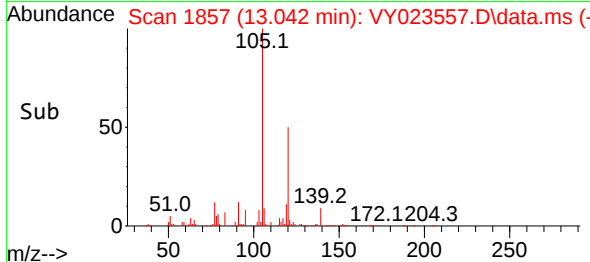
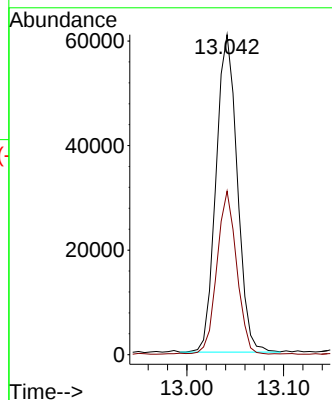
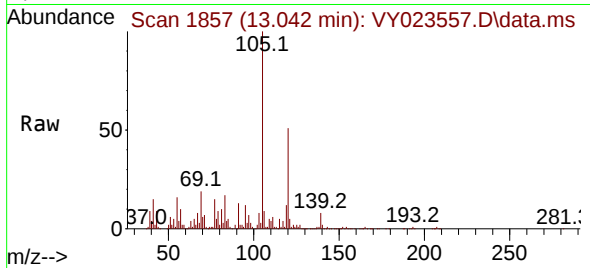




#84
1,2,4-Trimethylbenzene
Concen: 4.271 ug/l
RT: 13.042 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S14-000094-20251021

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



#95
Naphthalene
Concen: 7.730 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY023557.D
Acq: 22 Oct 2025 17:35

Tgt Ion:128 Resp: 93698
Ion Ratio Lower Upper
128 100
127 16.8 10.4 15.6#
129 11.7 8.9 13.3

