

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
 Data File : VY021392.D
 Acq On : 28 Feb 2025 19:49
 Operator : SY/MD
 Sample : Q1463-04
 Misc : 6.27g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 T4

Quant Time: Feb 28 22:25:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	112661	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	213094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	188811	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	64962	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	76713	60.024	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 120.040%	
35) Dibromofluoromethane	7.634	113	77011	55.124	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 110.240%	
50) Toluene-d8	10.109	98	260343	48.218	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 96.440%	
62) 4-Bromofluorobenzene	12.408	95	74618	41.064	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 82.120%	

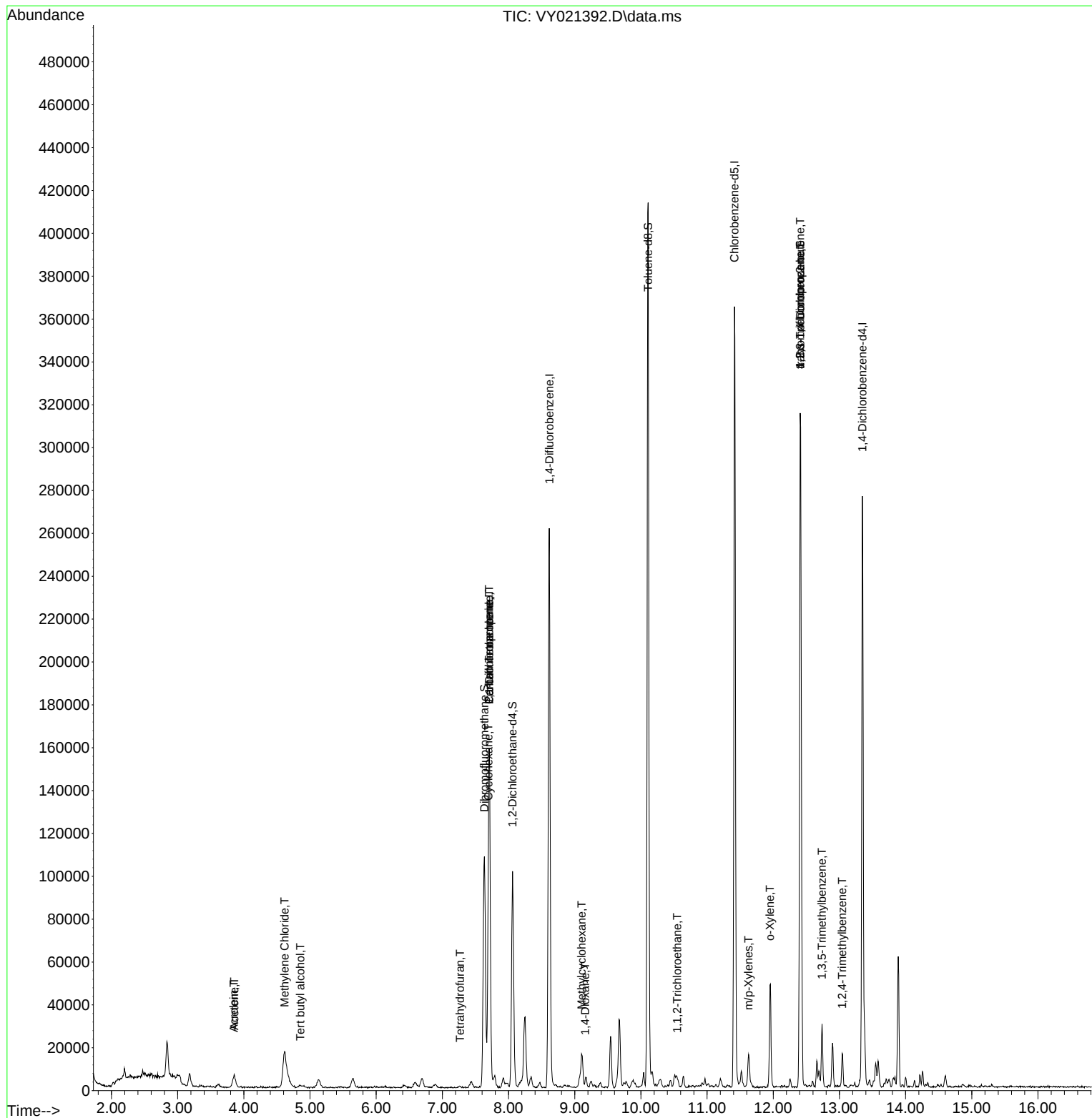
Target Compounds			Qvalue			
11) Tert butyl alcohol	4.854	59	1908	19.409	ug/l #	89
13) Acrolein	3.848	56	1310	17.390	ug/l	90
16) Acetone	3.854	43	3874	15.802	ug/l #	62
20) Methylene Chloride	4.616	84	10245	7.728	ug/l	88
29) Tetrahydrofuran	7.268	42	365	1.509	ug/l #	35
31) Cyclohexane	7.695	56	6953	3.086	ug/l #	74
36) 1,1-Dichloropropene	7.707	75	9361	4.461	ug/l #	51
38) Carbon Tetrachloride	7.707	117	12254	5.194	ug/l #	19
39) Methylcyclohexane	9.103	83	4800	1.808	ug/l	94
49) 1,4-Dioxane	9.158	88	24	2.645	ug/l #	1
55) 1,1,2-Trichloroethane	10.548	97	1116	1.050	ug/l #	26
68) m/p-Xylenes	11.627	106	4738	1.678	ug/l	88
69) o-Xylene	11.950	106	12177	4.603	ug/l	100
76) 1,2,3-Trichloropropane	12.408	75	41968	64.543	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	12877	3.215	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.408	75	41968	143.456	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.042	105	7925	1.989	ug/l	99

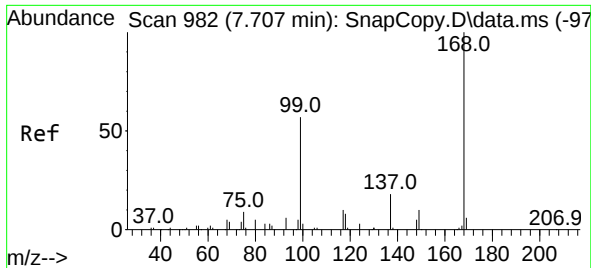
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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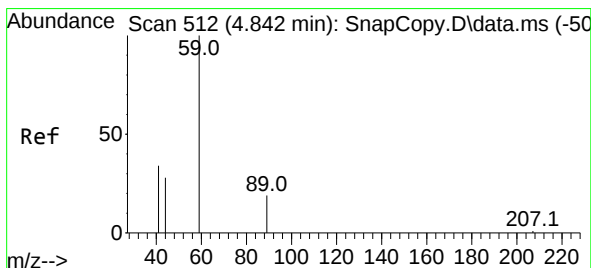
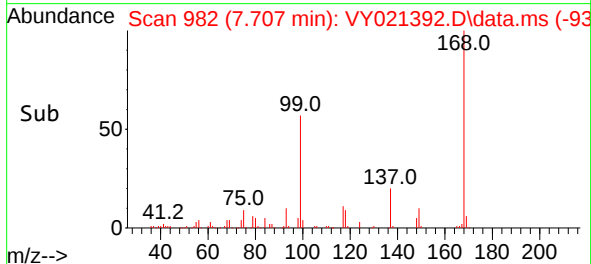
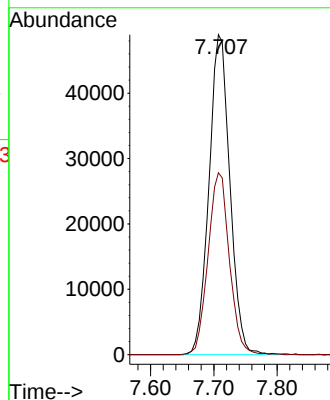
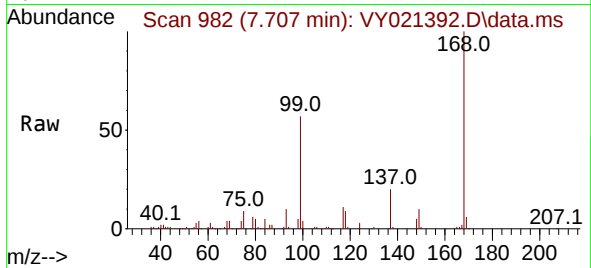




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

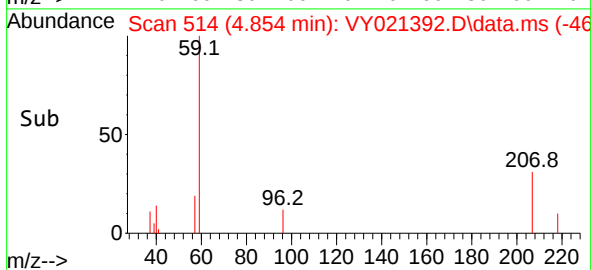
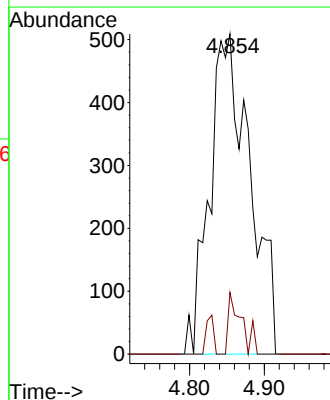
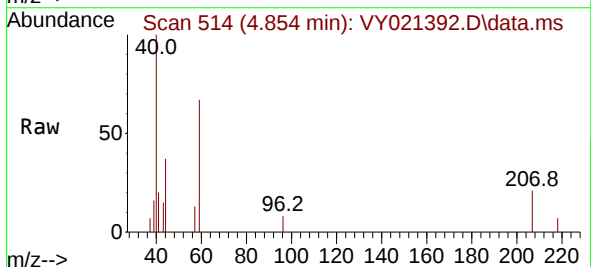
Instrument :
MSVOA_Y
ClientSampleId :
T4

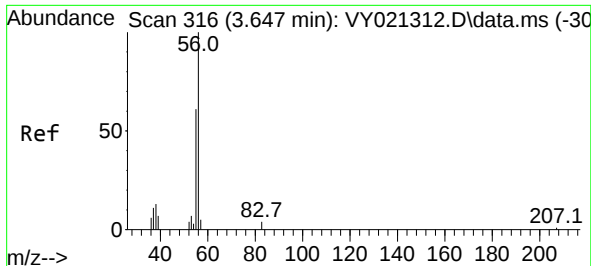
Tgt Ion:168 Resp: 112661
Ion Ratio Lower Upper
168 100
99 56.8 47.1 70.7



#11
Tert butyl alcohol
Concen: 19.409 ug/l
RT: 4.854 min Scan# 514
Delta R.T. 0.000 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

Tgt Ion: 59 Resp: 1908
Ion Ratio Lower Upper
59 100
57 6.3 8.3 12.5#

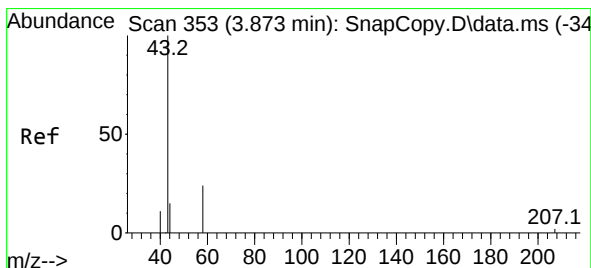
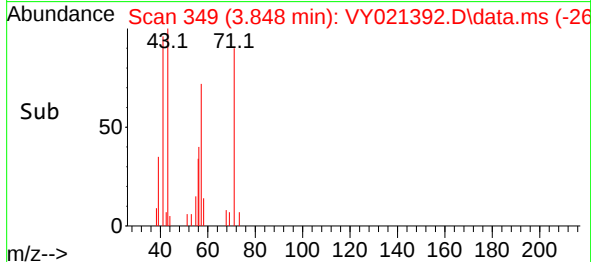
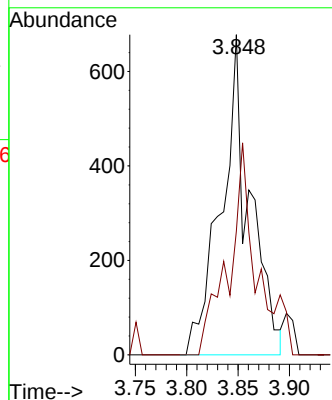
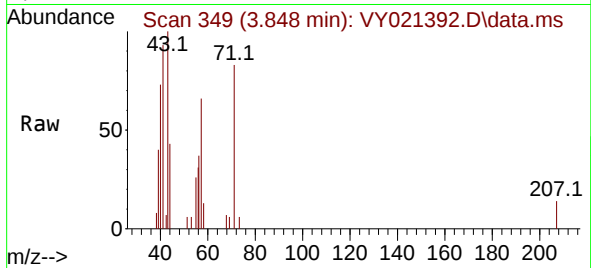




#13
Acrolein
Concen: 17.390 ug/l
RT: 3.848 min Scan# 349
Delta R.T. 0.201 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

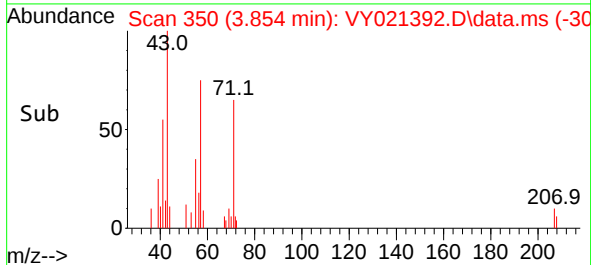
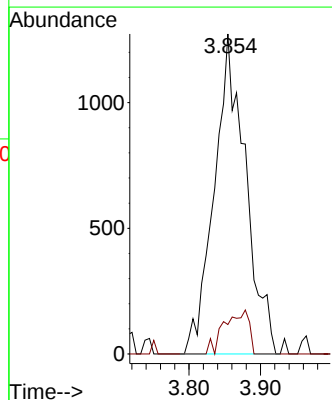
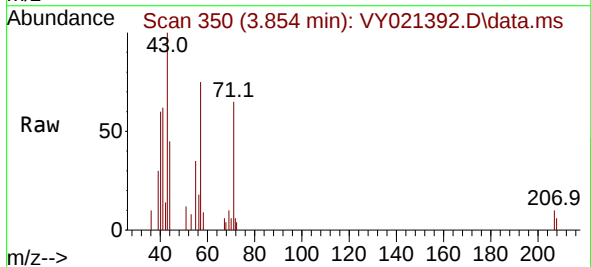
Instrument :
MSVOA_Y
ClientSampleId :
T4

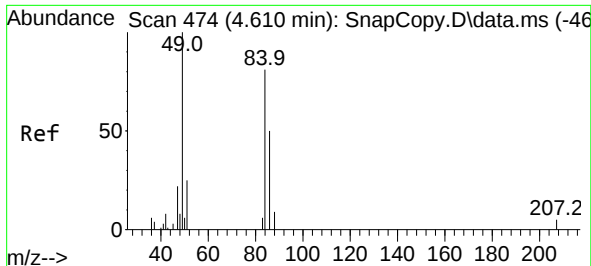
Tgt Ion: 56 Resp: 1310
Ion Ratio Lower Upper
56 100
55 65.0 59.0 88.6



#16
Acetone
Concen: 15.802 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.012 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

Tgt Ion: 43 Resp: 3874
Ion Ratio Lower Upper
43 100
58 9.2 23.5 35.3#

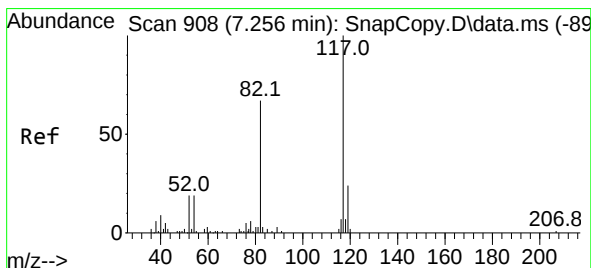
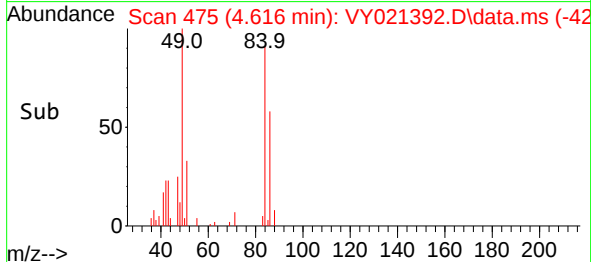
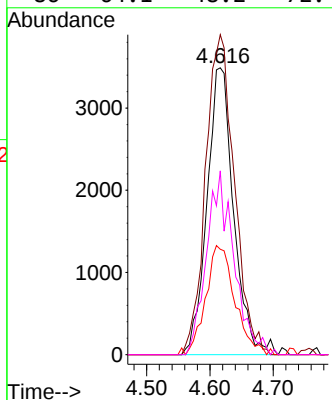
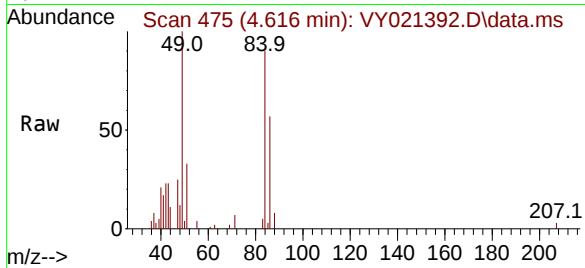




#20
Methylene Chloride
Concen: 7.728 ug/l
RT: 4.616 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

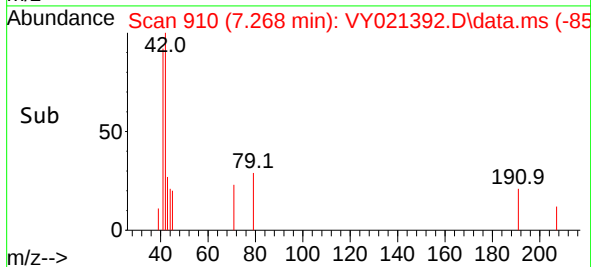
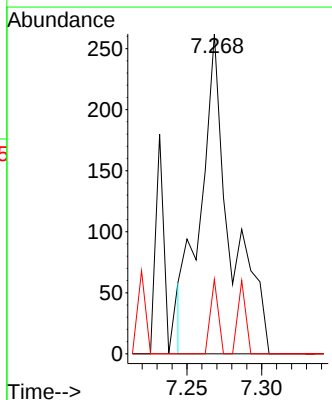
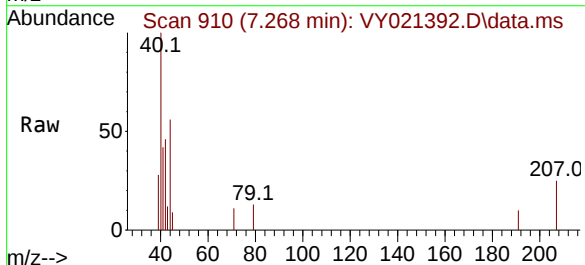
Instrument :
MSVOA_Y
ClientSampleId :
T4

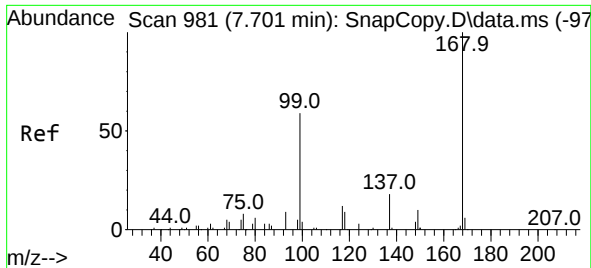
Tgt Ion:	84	Resp:	10245
Ion	Ratio	Lower	Upper
84	100		
49	111.5	105.1	157.7
51	36.8	31.0	46.4
86	64.1	48.2	72.4



#29
Tetrahydrofuran
Concen: 1.509 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.012 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

Tgt Ion:	42	Resp:	365
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.1	49.7#
71	0.0	31.4	47.0#

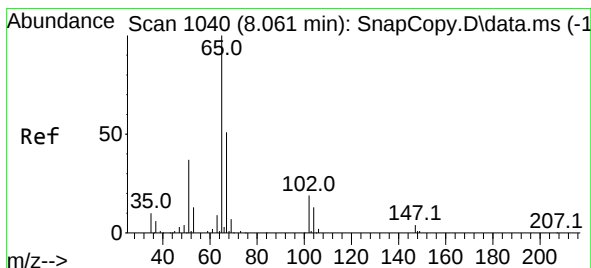
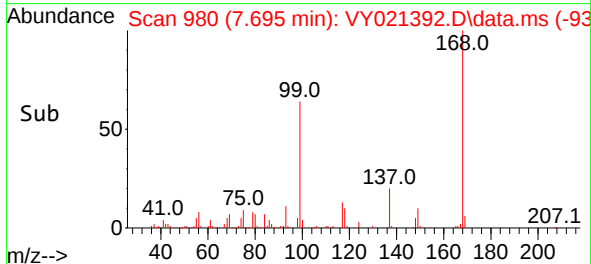
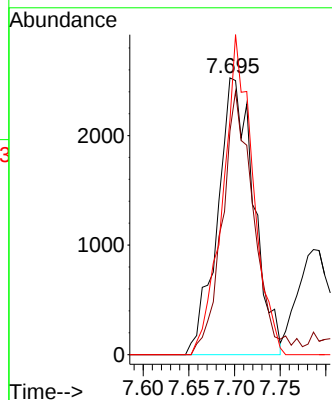
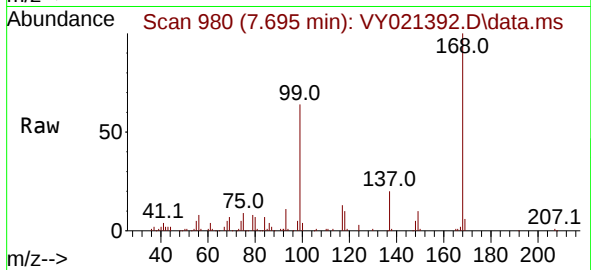




#31
Cyclohexane
Concen: 3.086 ug/l
RT: 7.695 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

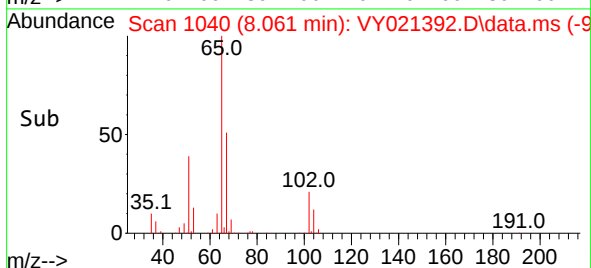
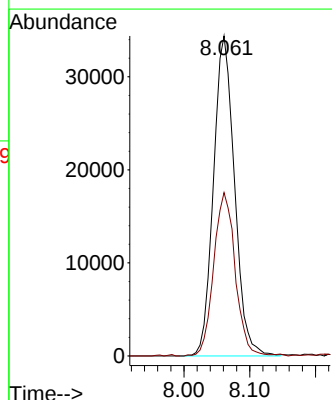
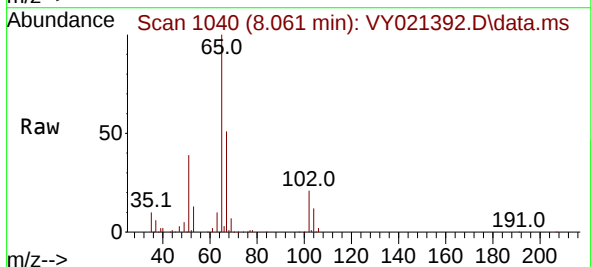
Instrument :
MSVOA_Y
ClientSampleId :
T4

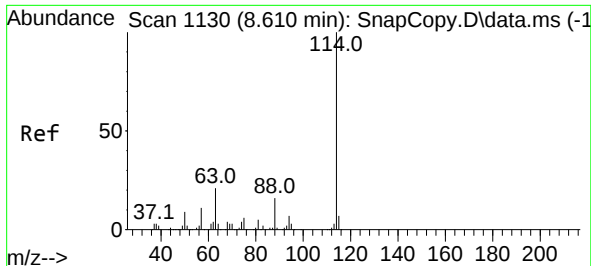
Tgt Ion: 56 Resp: 6953
Ion Ratio Lower Upper
56 100
69 80.8 26.2 39.4#
84 84.7 70.2 105.4



#33
1,2-Dichloroethane-d4
Concen: 60.024 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

Tgt Ion: 65 Resp: 76713
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.6

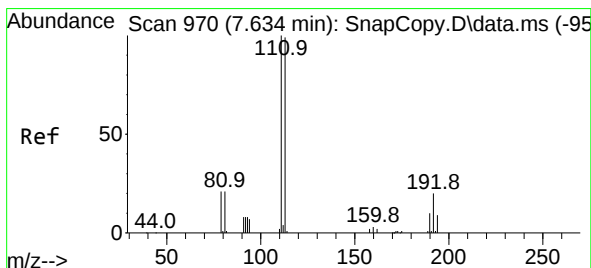
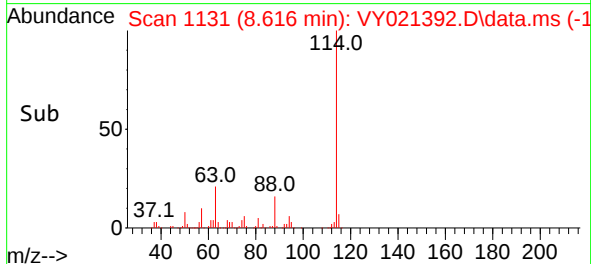
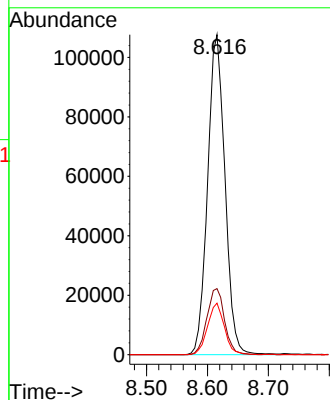
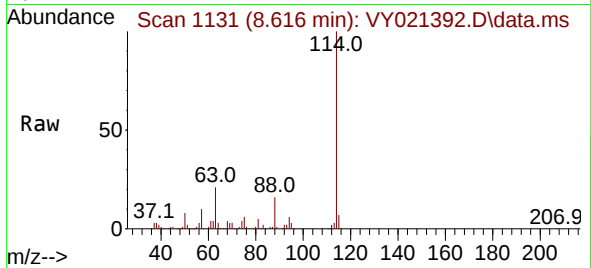




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

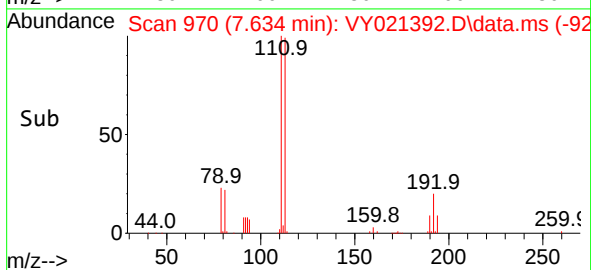
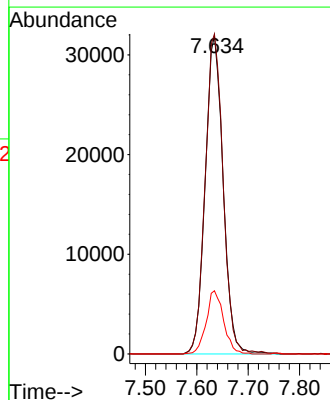
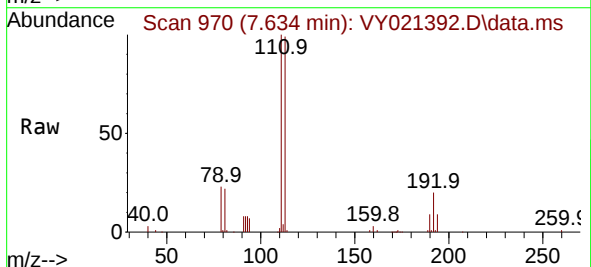
Instrument :
MSVOA_Y
ClientSampleId :
T4

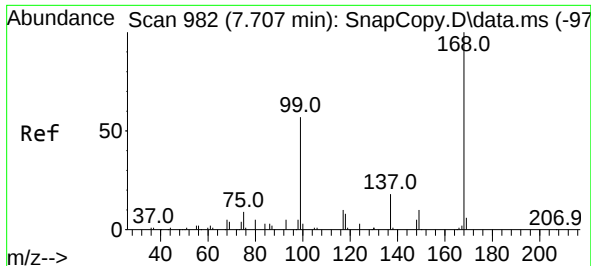
Tgt Ion:114 Resp: 213094
Ion Ratio Lower Upper
114 100
63 20.6 0.0 42.2
88 16.1 0.0 29.8



#35
Dibromofluoromethane
Concen: 55.124 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

Tgt Ion:113 Resp: 77011
Ion Ratio Lower Upper
113 100
111 101.0 81.0 121.6
192 19.4 15.8 23.8

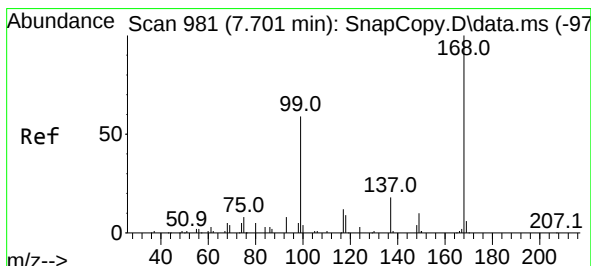
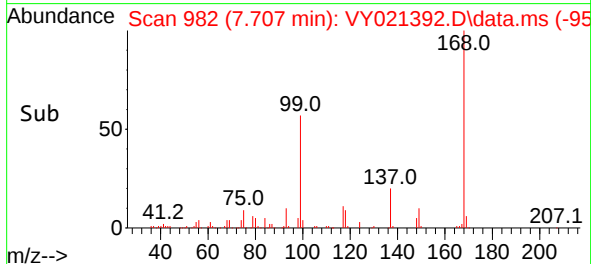
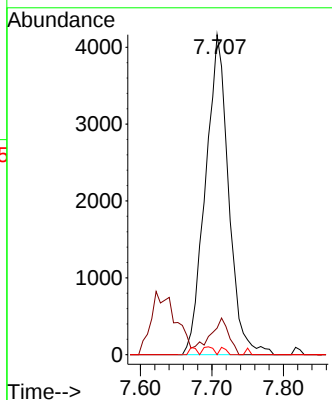
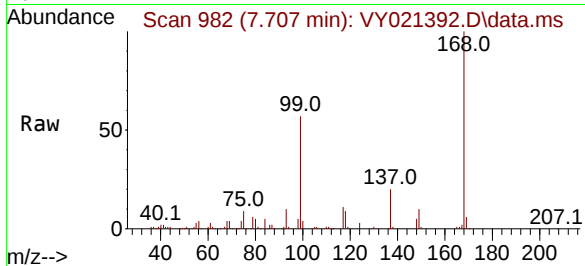




#36
 1,1-Dichloropropene
 Concen: 4.461 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.128 min
 Lab File: VY021392.D
 Acq: 28 Feb 2025 19:49

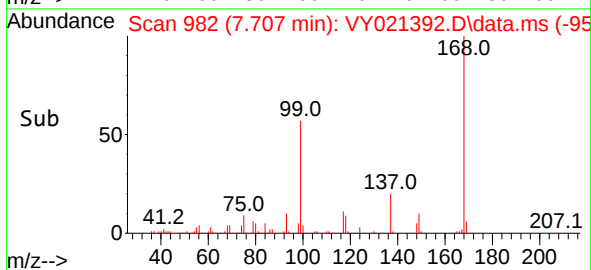
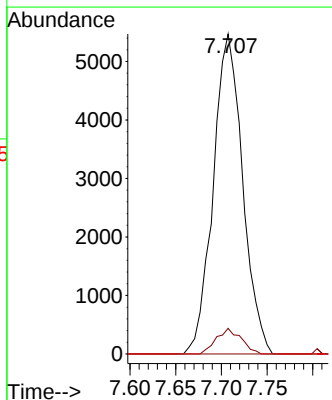
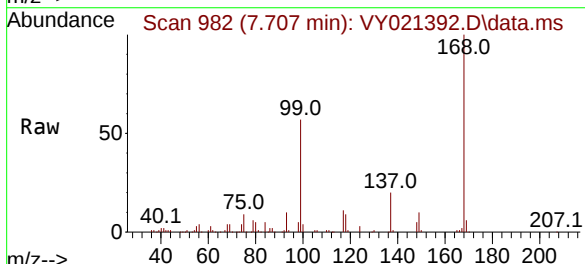
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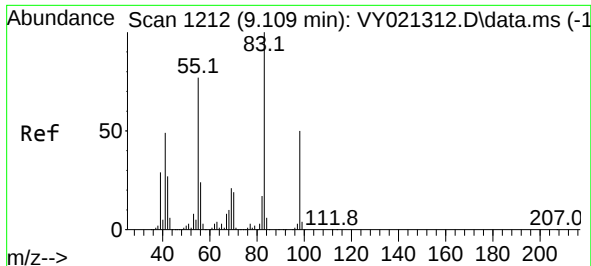
Tgt Ion:	75	Resp:	9361
Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.9	50.7#
77	0.6	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.194 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.110 min
 Lab File: VY021392.D
 Acq: 28 Feb 2025 19:49

Tgt Ion:	117	Resp:	12254
Ion	Ratio	Lower	Upper
117	100		
119	8.0	76.0	114.0#
121	0.0	24.9	37.3#





#39

Methylcyclohexane

Concen: 1.808 ug/l

RT: 9.103 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

Instrument :

MSVOA_Y

ClientSampleId :

T4

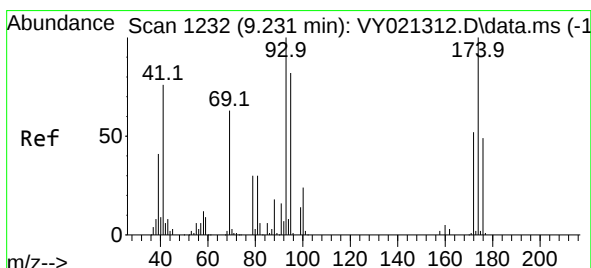
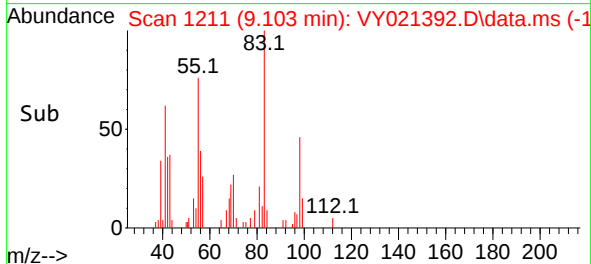
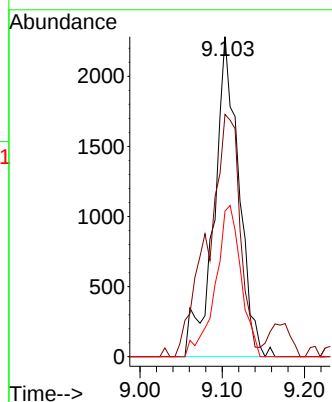
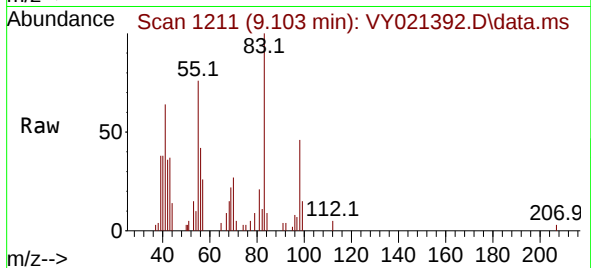
Tgt Ion: 83 Resp: 4800

Ion Ratio Lower Upper

83 100

55 71.6 61.3 91.9

98 45.5 39.9 59.9



#49

1,4-Dioxane

Concen: 2.645 ug/l

RT: 9.158 min Scan# 1220

Delta R.T. -0.073 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

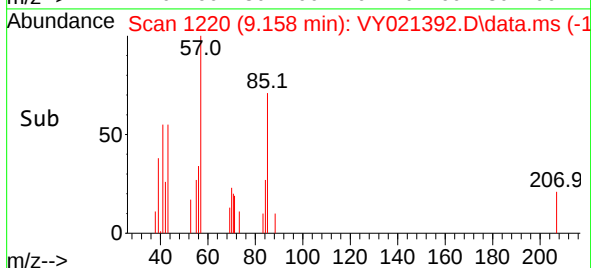
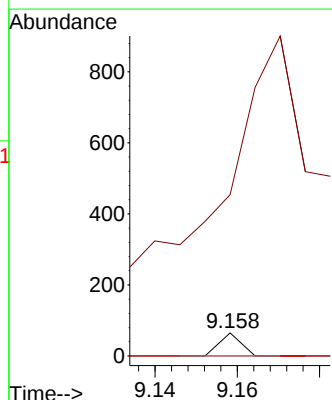
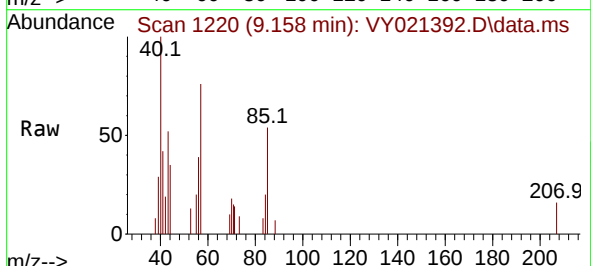
Tgt Ion: 88 Resp: 24

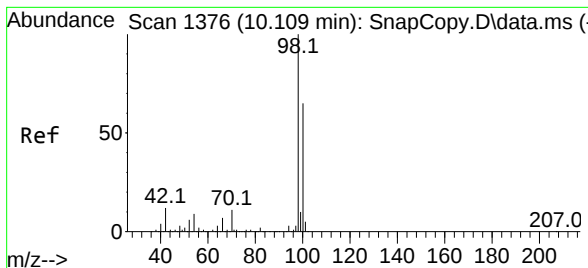
Ion Ratio Lower Upper

88 100

43 5883.3 34.8 52.2#

58 0.0 59.8 89.6#





#50

Toluene-d8

Concen: 48.218 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

Instrument :

MSVOA_Y

ClientSampleId :

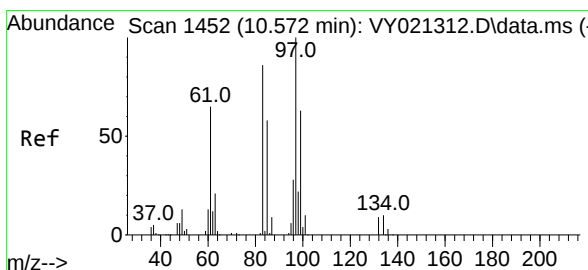
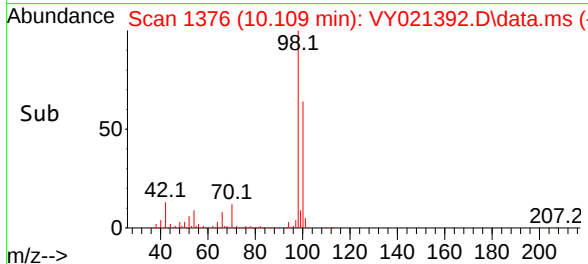
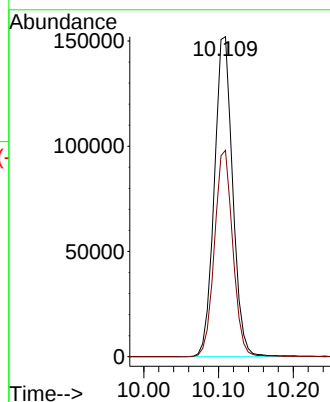
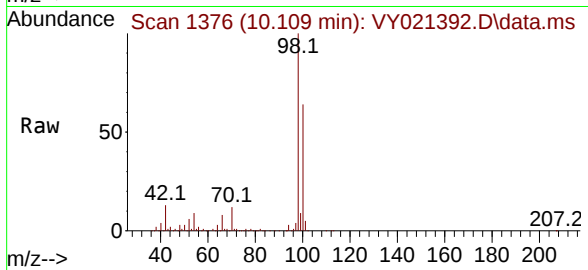
T4

Tgt Ion: 98 Resp: 260343

Ion Ratio Lower Upper

98 100

100 64.3 52.4 78.6



#55

1,1,2-Trichloroethane

Concen: 1.050 ug/l

RT: 10.548 min Scan# 1448

Delta R.T. -0.024 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

Tgt Ion: 97 Resp: 1116

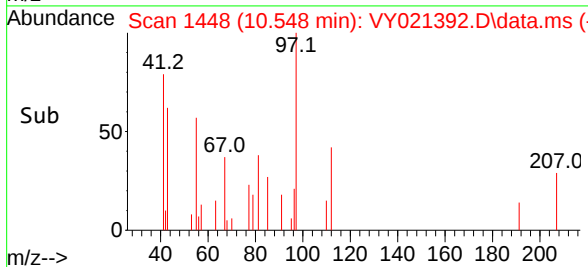
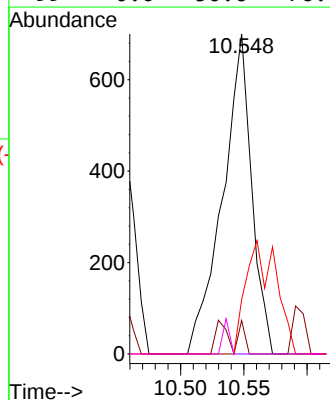
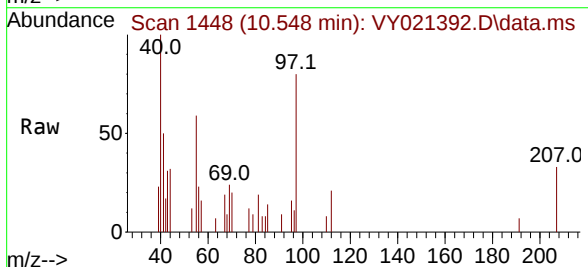
Ion Ratio Lower Upper

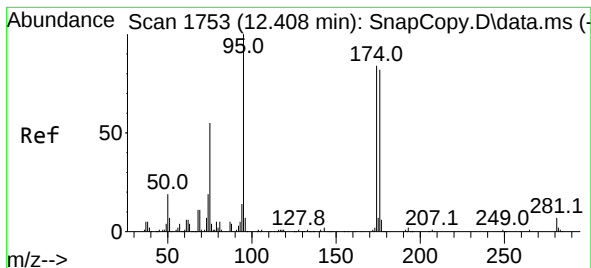
97 100

83 10.4 68.7 103.1#

85 17.0 46.3 69.5#

99 0.0 50.6 76.0#

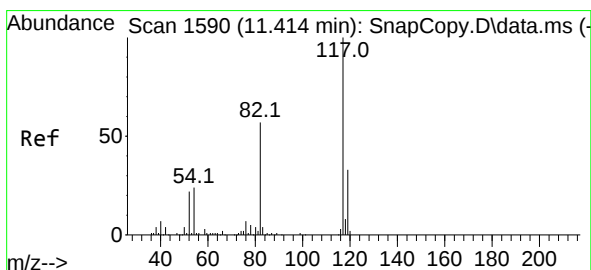
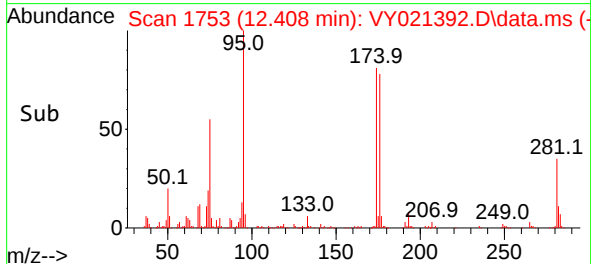
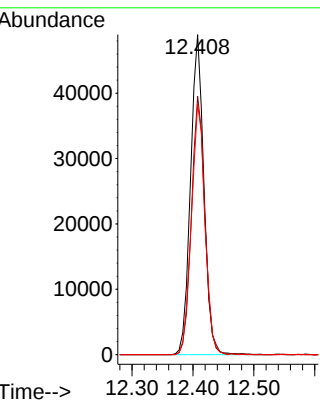
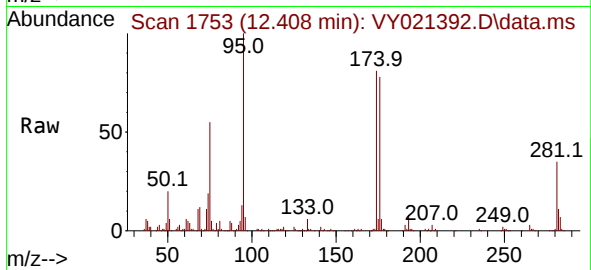




#62
4-Bromofluorobenzene
Concen: 41.064 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

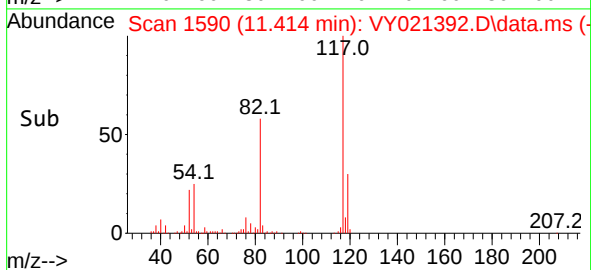
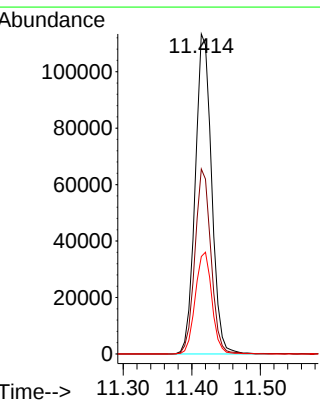
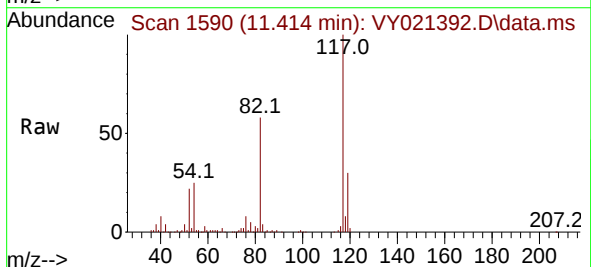
Instrument :
MSVOA_Y
ClientSampleId :
T4

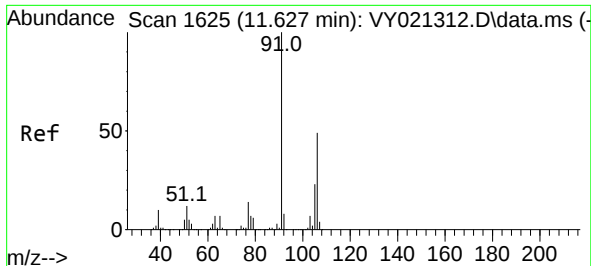
Tgt Ion:	95	Resp:	74618
Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	168.0
176	79.6	0.0	162.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

Tgt Ion:	117	Resp:	188811
Ion	Ratio	Lower	Upper
117	100		
82	57.8	46.2	69.4
119	30.5	24.9	37.3

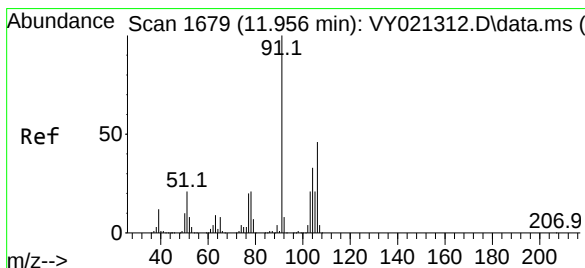
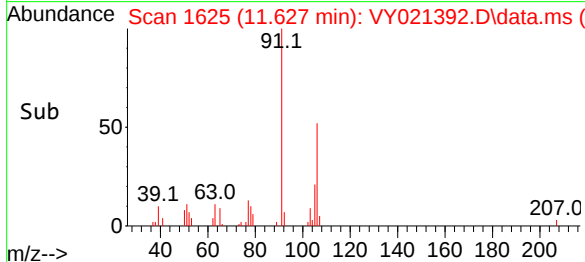
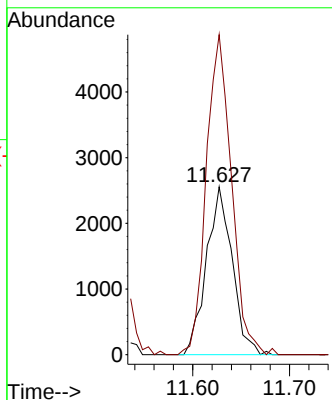
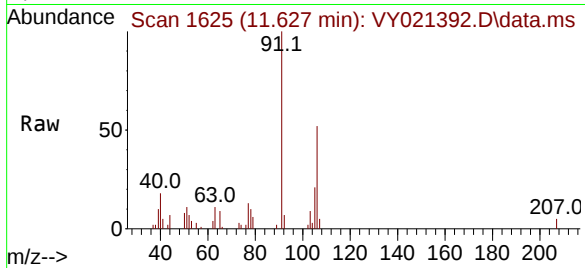




#68
m/p-Xylenes
Concen: 1.678 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

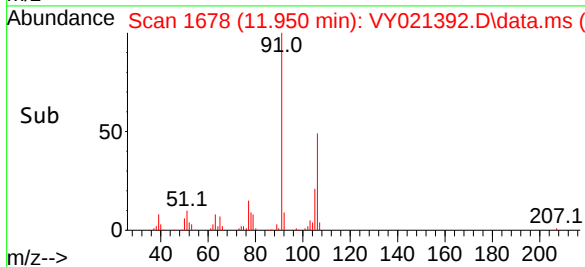
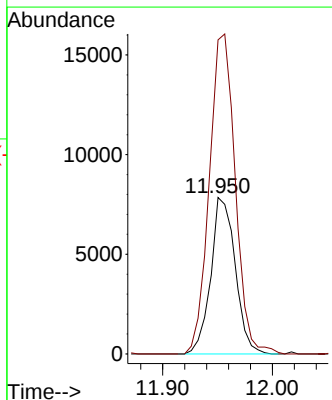
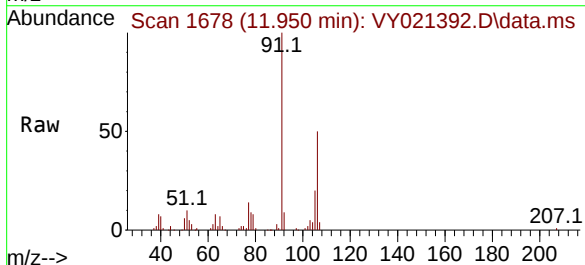
Instrument :
MSVOA_Y
ClientSampleId :
T4

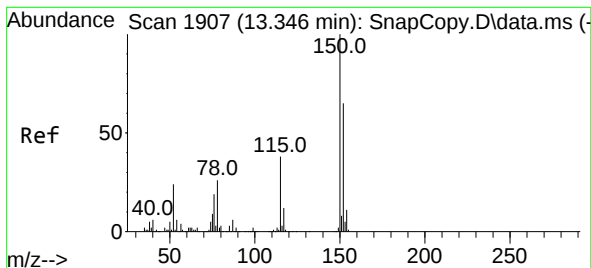
Tgt Ion:106 Resp: 4738
Ion Ratio Lower Upper
106 100
91 186.5 163.9 245.9



#69
o-Xylene
Concen: 4.603 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY021392.D
Acq: 28 Feb 2025 19:49

Tgt Ion:106 Resp: 12177
Ion Ratio Lower Upper
106 100
91 216.8 108.1 324.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

Instrument :

MSVOA_Y

ClientSampleId :

T4

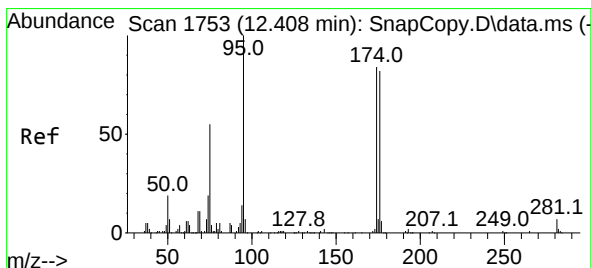
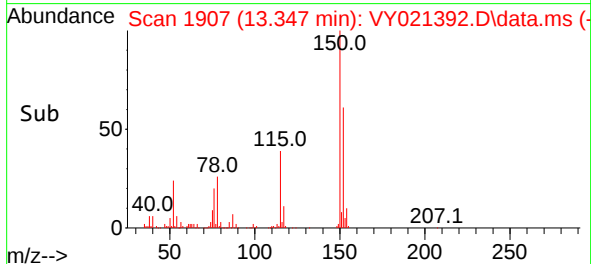
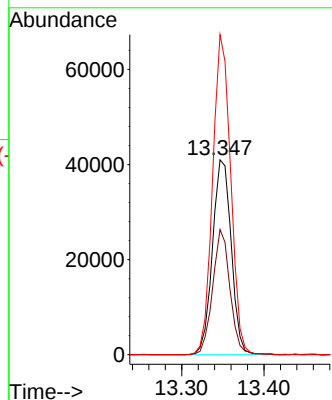
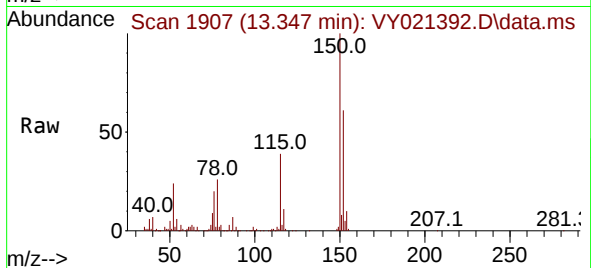
Tgt Ion:152 Resp: 64962

Ion Ratio Lower Upper

152 100

115 59.6 29.3 88.0

150 157.9 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 64.543 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY021392.D

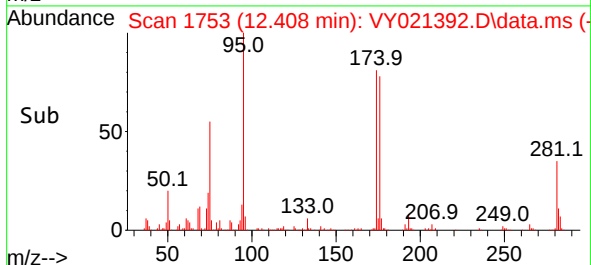
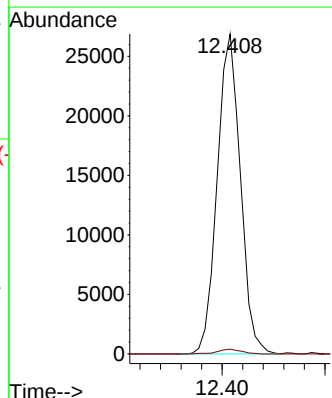
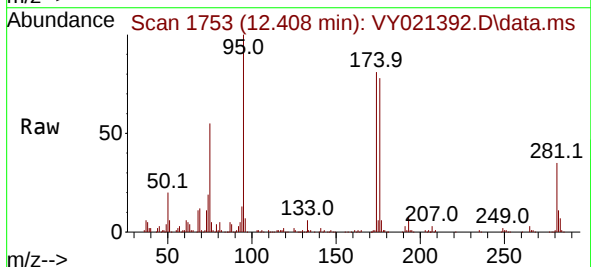
Acq: 28 Feb 2025 19:49

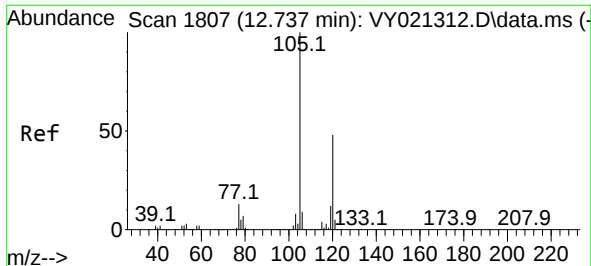
Tgt Ion: 75 Resp: 41968

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

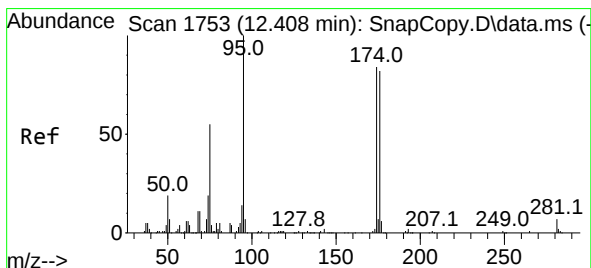
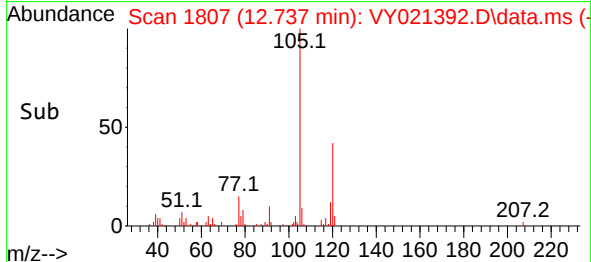
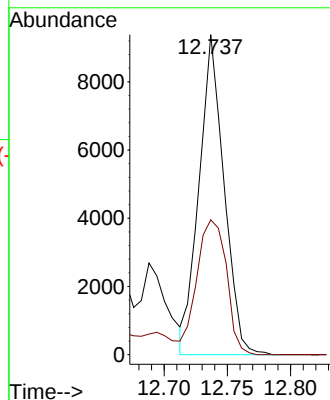
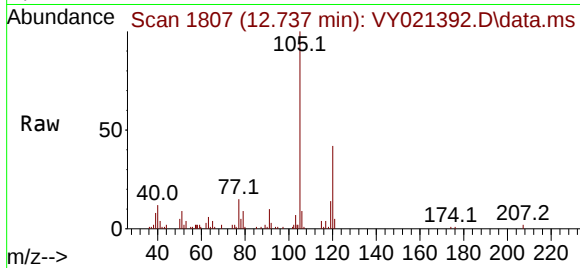




#80
 1,3,5-Trimethylbenzene
 Concen: 3.215 ug/l
 RT: 12.737 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY021392.D
 Acq: 28 Feb 2025 19:49

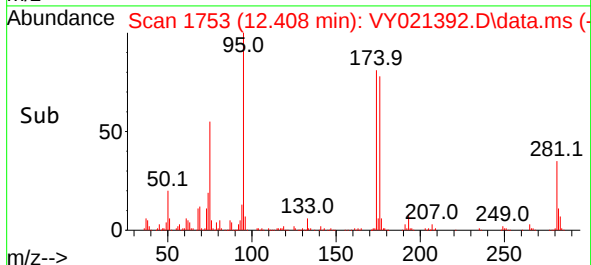
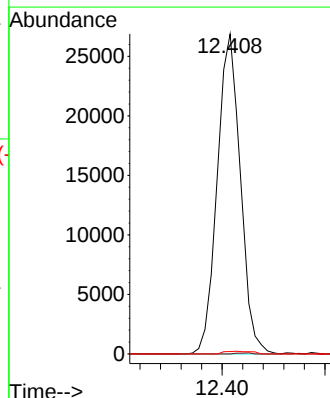
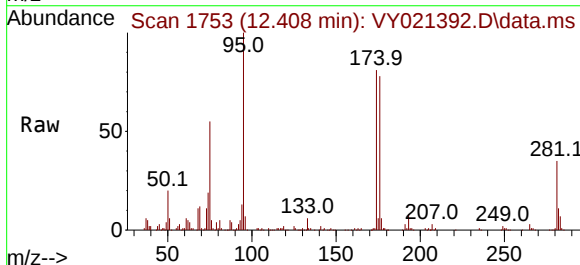
Instrument :
 MSVOA_Y
 ClientSampleId :
 T4

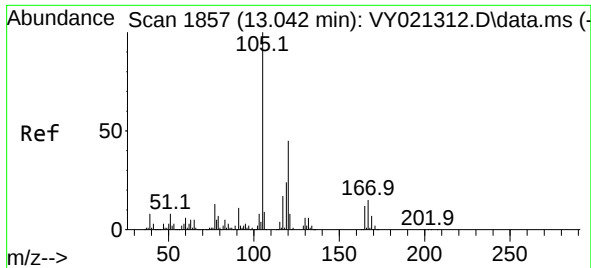
Tgt Ion:105 Resp: 12877
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.3 73.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 143.456 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.104 min
 Lab File: VY021392.D
 Acq: 28 Feb 2025 19:49

Tgt Ion: 75 Resp: 41968
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.1 118.7#
 89 1.0 35.6 53.4#





#84
 1,2,4-Trimethylbenzene
 Concen: 1.989 ug/l
 RT: 13.042 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY021392.D
 Acq: 28 Feb 2025 19:49

Instrument :
 MSVOA_Y
 ClientSampleId :
 T4

Tgt Ion:105 Resp: 7925
 Ion Ratio Lower Upper
 105 100
 120 45.8 22.4 67.3

