

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032125\
 Data File : VY021601.D
 Acq On : 21 Mar 2025 15:49
 Operator : SY/MD
 Sample : Q1606-07
 Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT3025

Quant Time: Mar 21 23:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

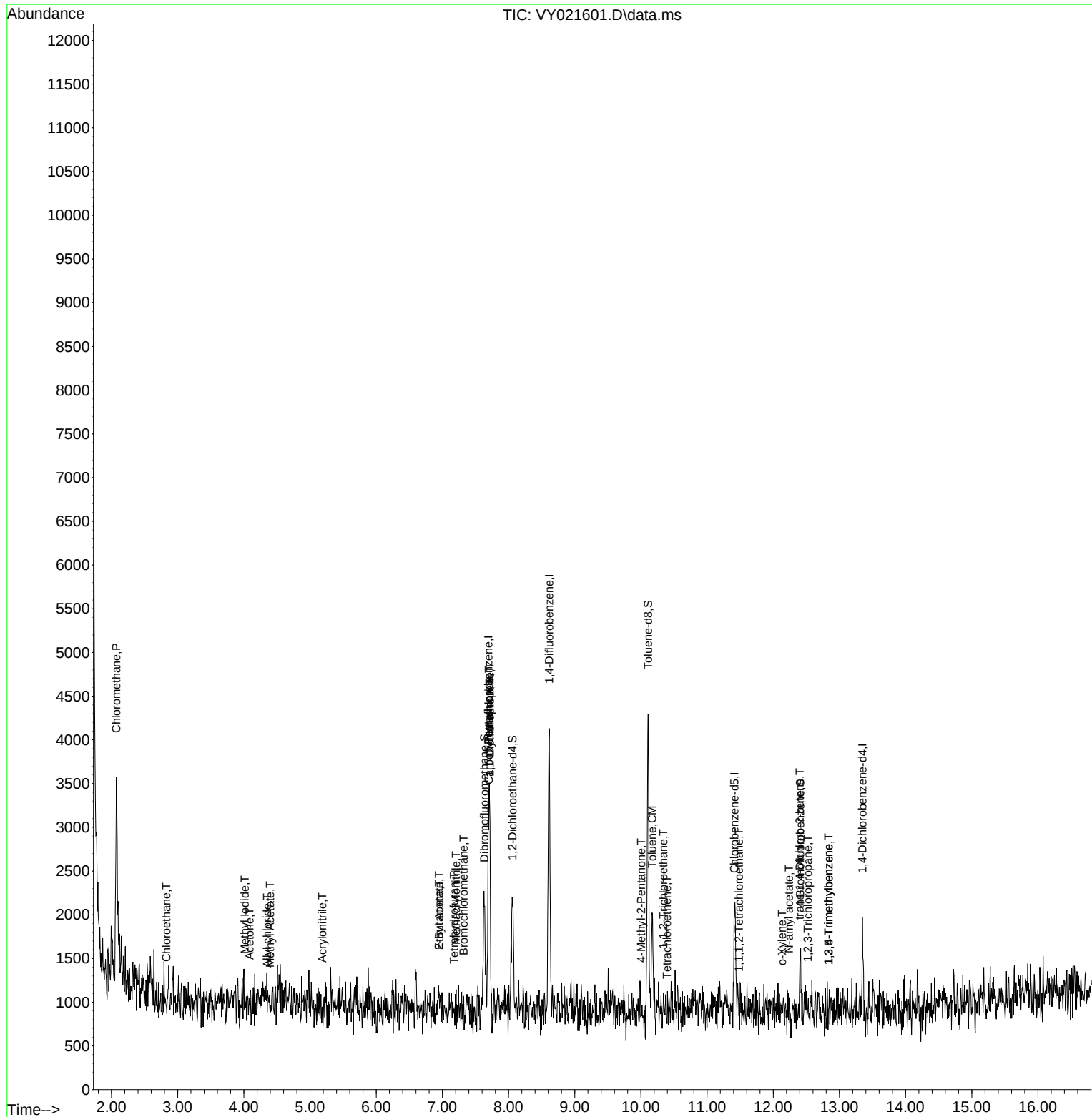
Internal Standards						
1) Pentafluorobenzene	7.695	168	2373	50.000	ug/l	#-0.02
34) 1,4-Difluorobenzene	8.615	114	2773	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	867	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	203	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	1319	52.589	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.180%	
35) Dibromofluoromethane	7.634	113	1026	56.289	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 112.580%	
50) Toluene-d8	10.109	98	2136	30.950	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 61.900%	
62) 4-Bromofluorobenzene	12.407	95	242	10.308	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 20.620%#	
Target Compounds						Qvalue
3) Chloromethane	2.074	50	105	3.420	ug/l #	32
6) Chloroethane	2.830	64	42	1.894	ug/l #	41
10) Methyl Iodide	4.012	142	49	1.803	ug/l #	1
14) Allyl chloride	4.354	41	47	1.193	ug/l #	21
15) Acrylonitrile	5.183	53	26	4.706	ug/l #	17
16) Acetone	4.086	43	25	4.570	ug/l #	47
18) Methyl Acetate	4.396	43	19	1.565	ug/l #	51
25) 2-Butanone	6.951	43	50	6.607	ug/l #	48
28) Bromochloromethane	7.323	49	40	1.904	ug/l #	14
29) Tetrahydrofuran	7.176	42	50	10.703	ug/l #	33
31) Cyclohexane	7.713	56	60	1.277	ug/l #	1
36) 1,1-Dichloropropene	7.719	75	134	4.697	ug/l #	41
37) Ethyl Acetate	6.951	43	50	3.965	ug/l #	68
38) Carbon Tetrachloride	7.701	117	228	6.948	ug/l #	12
41) Methacrylonitrile	7.207	41	19	2.767	ug/l #	16
51) 4-Methyl-2-Pentanone	10.005	43	23	1.821	ug/l #	36
52) Toluene	10.170	92	368	6.945	ug/l #	69
55) 1,1,2-Trichloroethane	10.341	97	20	1.374	ug/l #	14
64) Tetrachloroethene	10.395	164	20	2.837	ug/l #	1
66) 1,1,1,2-Tetrachloroethane	11.481	131	22	3.039	ug/l #	8
69) o-Xylene	12.133	106	23	1.829	ug/l #	1
74) N-amyl acetate	12.237	43	79	22.748	ug/l #	42
76) 1,2,3-Trichloropropane	12.523	75	46	22.487	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.834	105	22	1.693	ug/l #	28
81) trans-1,4-Dichloro-2-b...	12.401	75	108	120.022	ug/l #	9
84) 1,2,4-Trimethylbenzene	12.834	105	22	1.705	ug/l #	31

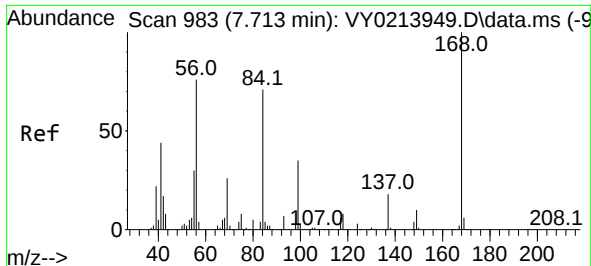
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

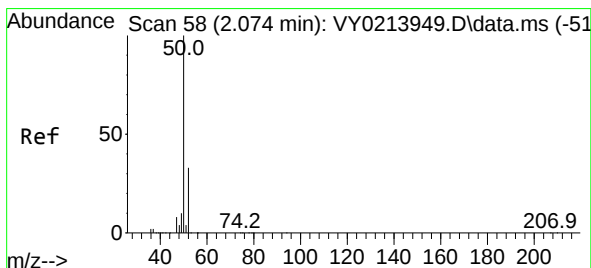
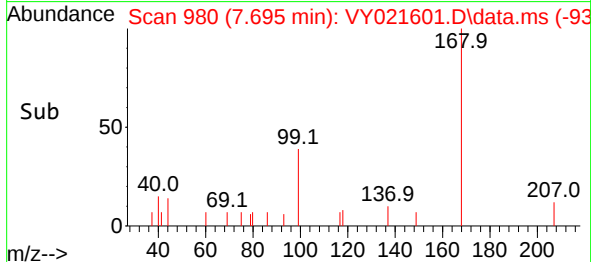
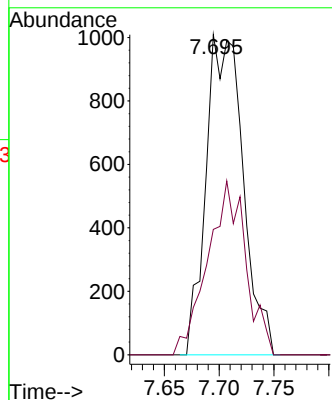
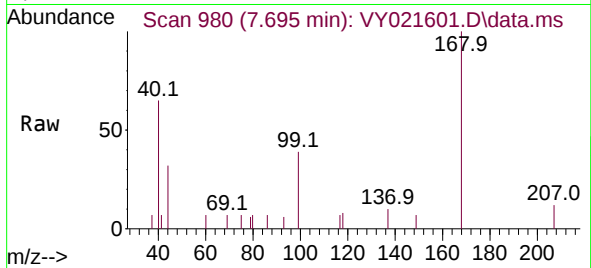




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 99
Delta R.T. -0.018 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

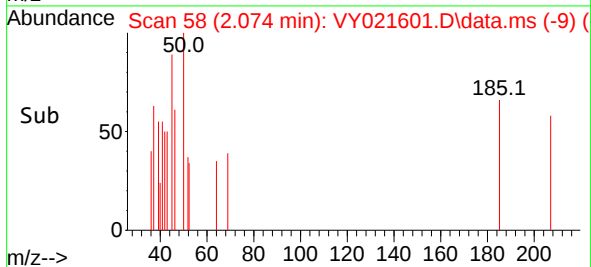
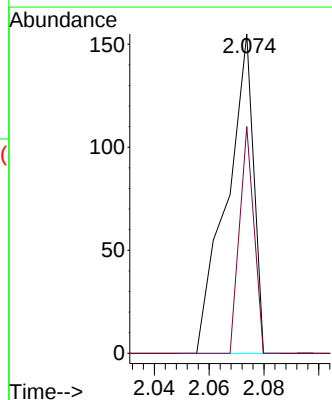
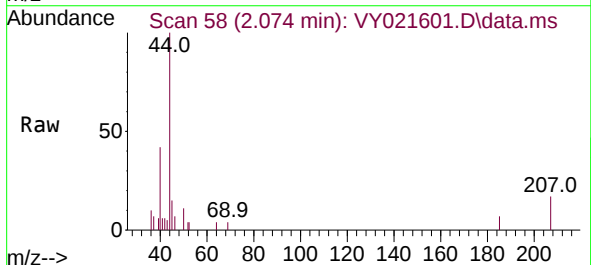
Instrument :
MSVOA_Y
ClientSampleId :
RT3025

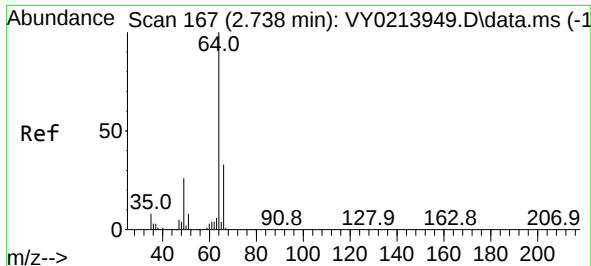
Tgt Ion:168 Resp: 2373
Ion Ratio Lower Upper
168 100
99 39.1 46.0 69.0#



#3
Chloromethane
Concen: 3.420 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.000 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion: 50 Resp: 105
Ion Ratio Lower Upper
50 100
52 71.0 26.2 39.2#

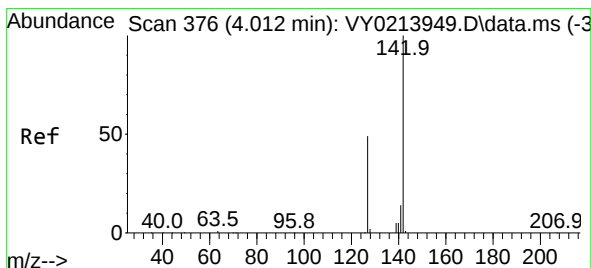
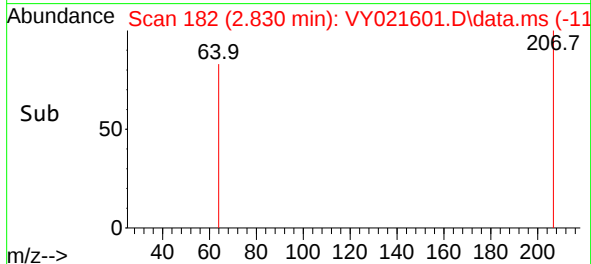
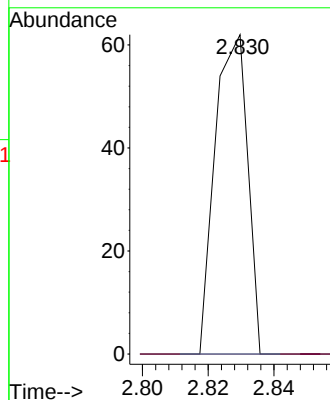
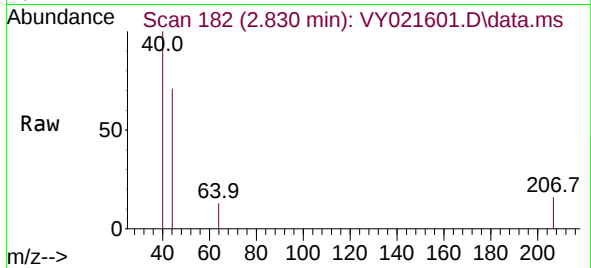




#6
Chloroethane
Concen: 1.894 ug/l
RT: 2.830 min Scan# 11
Delta R.T. 0.091 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

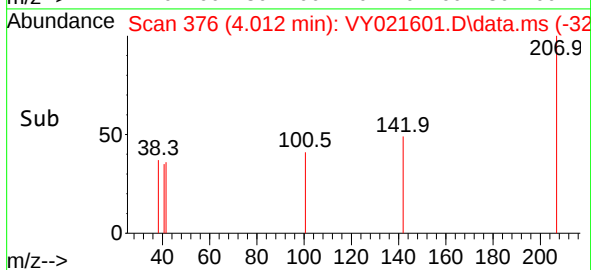
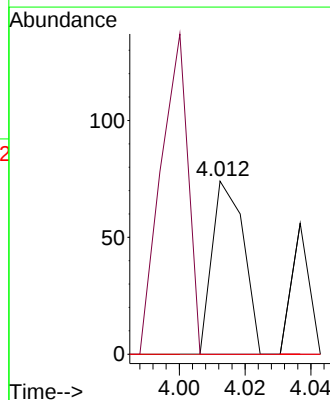
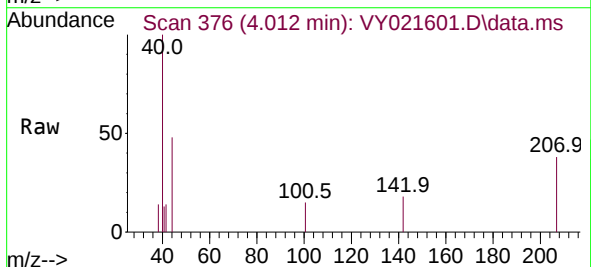
Instrument :
MSVOA_Y
ClientSampleId :
RT3025

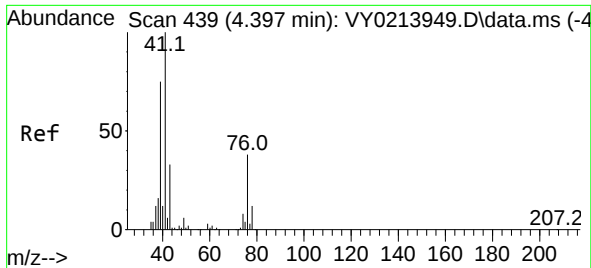
Tgt Ion: 64 Resp: 42
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#



#10
Methyl Iodide
Concen: 1.803 ug/l
RT: 4.012 min Scan# 376
Delta R.T. -0.000 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion: 142 Resp: 49
Ion Ratio Lower Upper
142 100
127 161.2 39.1 58.7#
141 0.0 11.8 17.6#

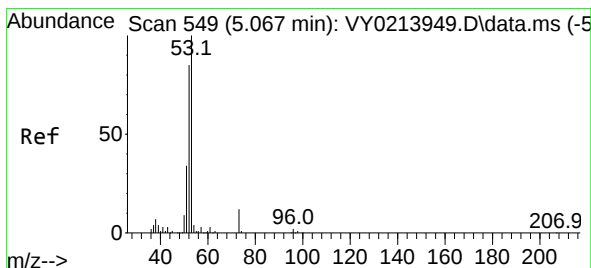
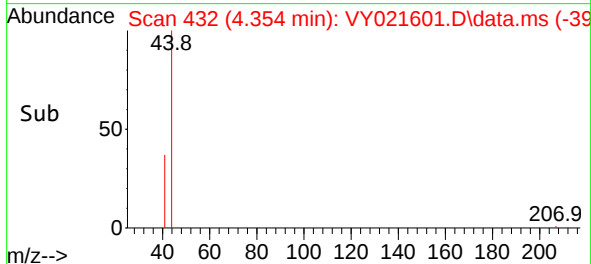
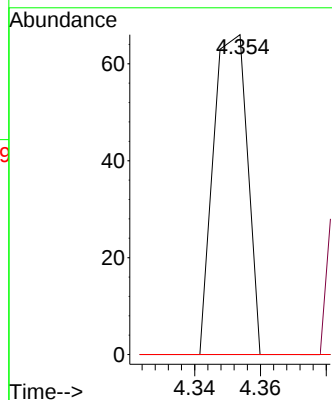
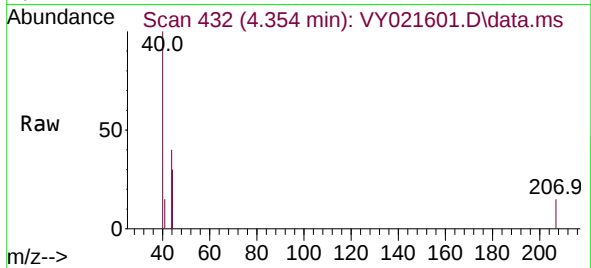




#14
 Allyl chloride
 Concen: 1.193 ug/l
 RT: 4.354 min Scan# 41
 Delta R.T. -0.043 min
 Lab File: VY021601.D
 Acq: 21 Mar 2025 15:49

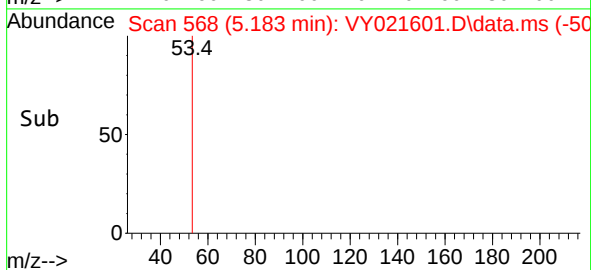
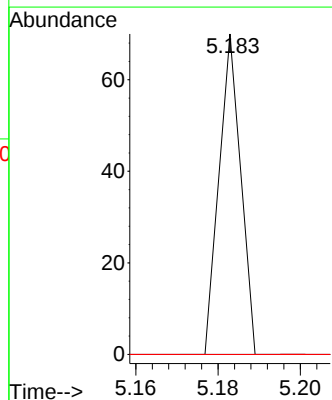
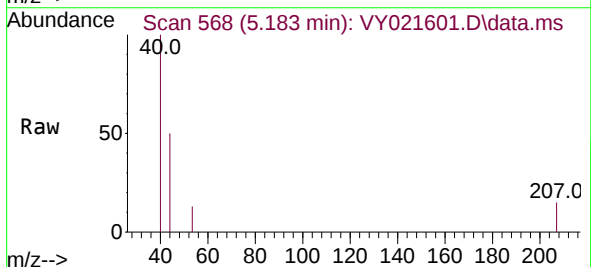
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT3025

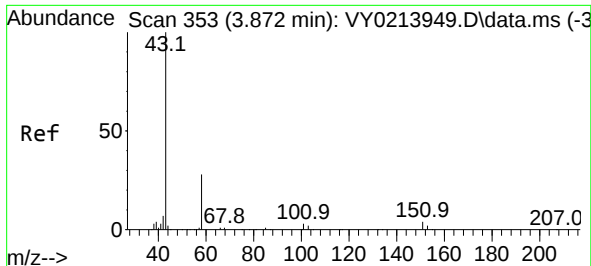
Tgt Ion: 41	Resp:	47
Ion	Ratio	Lower Upper
41	100	
39	0.0	59.3 88.9#
76	0.0	29.8 44.8#



#15
 Acrylonitrile
 Concen: 4.706 ug/l
 RT: 5.183 min Scan# 568
 Delta R.T. 0.116 min
 Lab File: VY021601.D
 Acq: 21 Mar 2025 15:49

Tgt Ion: 53	Resp:	26
Ion	Ratio	Lower Upper
53	100	
52	0.0	66.3 99.5#
51	0.0	30.3 45.5#

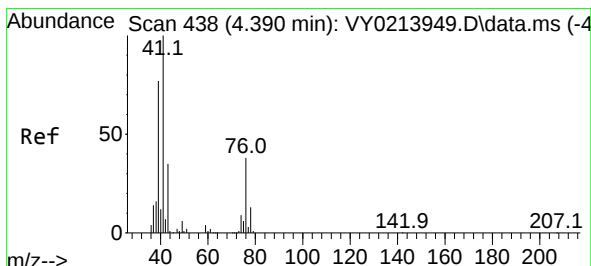
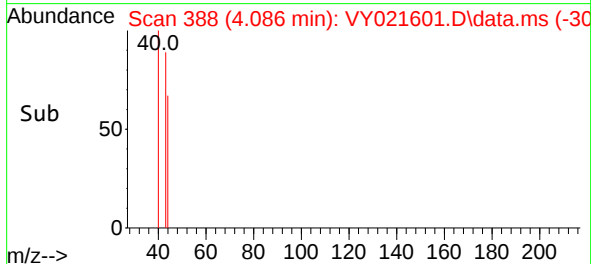
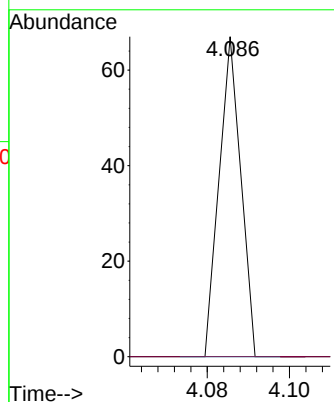
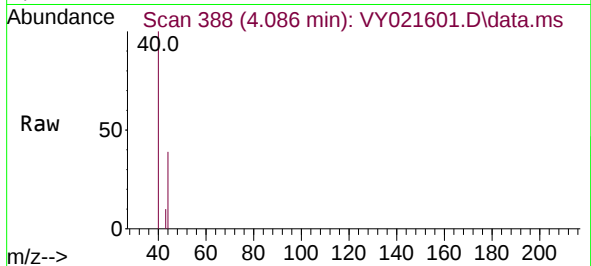




#16
Acetone
Concen: 4.570 ug/l
RT: 4.086 min Scan# 31
Delta R.T. 0.214 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

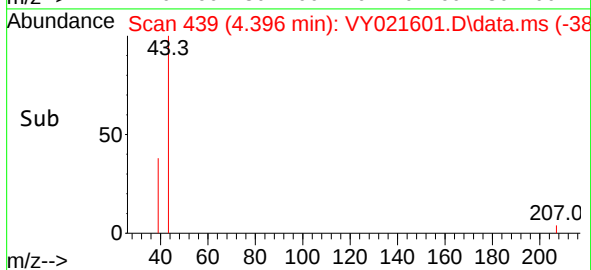
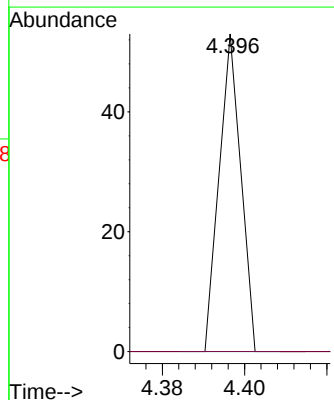
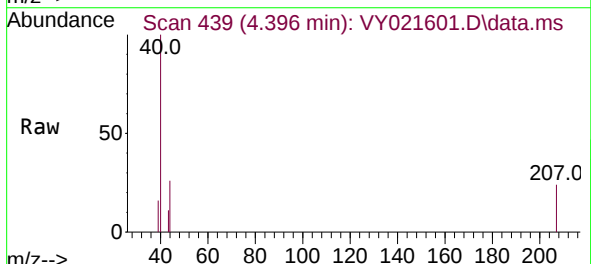
Instrument :
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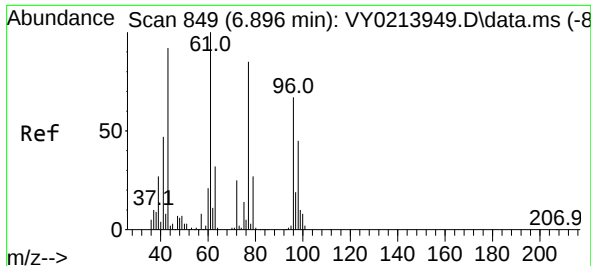
Tgt Ion: 43 Resp: 25
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#



#18
Methyl Acetate
Concen: 1.565 ug/l
RT: 4.396 min Scan# 439
Delta R.T. 0.006 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#

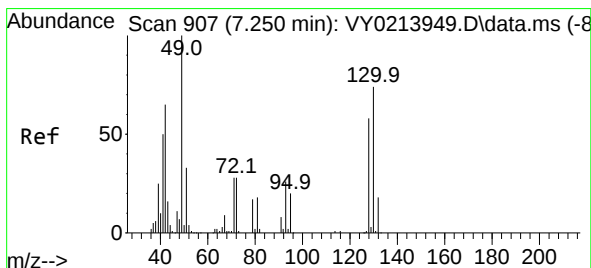
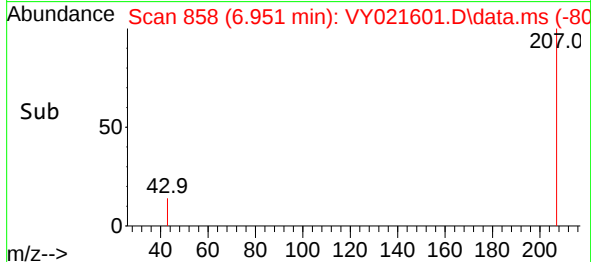
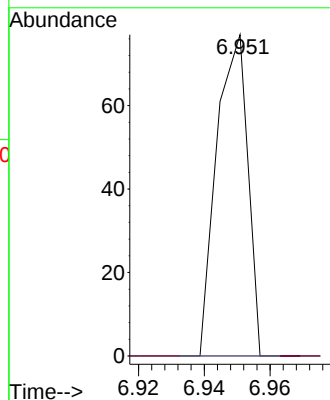
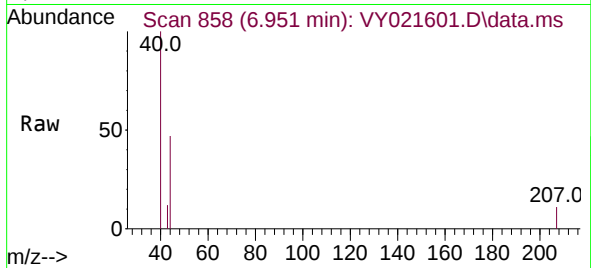




#25
2-Butanone
Concen: 6.607 ug/l
RT: 6.951 min Scan# 819
Delta R.T. 0.055 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

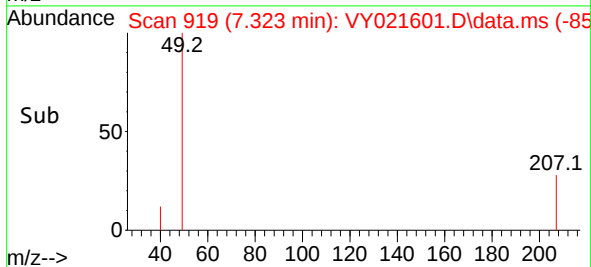
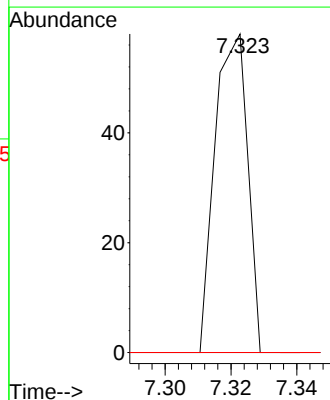
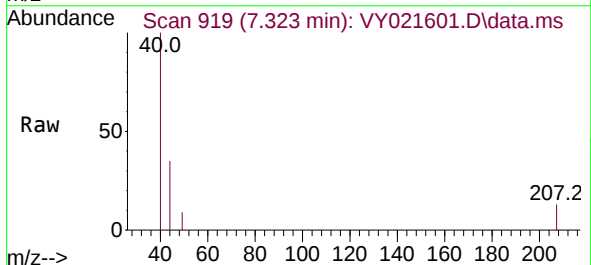
Instrument :
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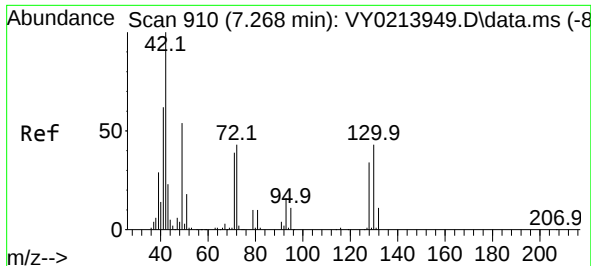
Tgt Ion: 43 Resp: 50
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.0#



#28
Bromochloromethane
Concen: 1.904 ug/l
RT: 7.323 min Scan# 919
Delta R.T. 0.073 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion: 49 Resp: 40
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 59.6 89.4#





#29

Tetrahydrofuran

Concen: 10.703 ug/l

RT: 7.176 min Scan# 895

Delta R.T. -0.092 min

Lab File: VY021601.D

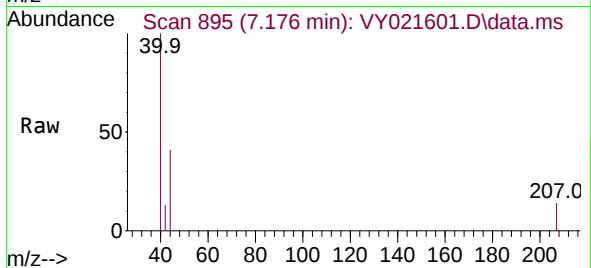
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Instrument :

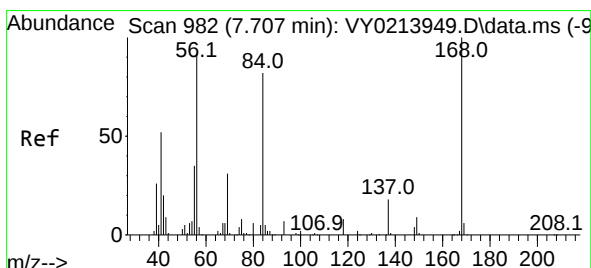
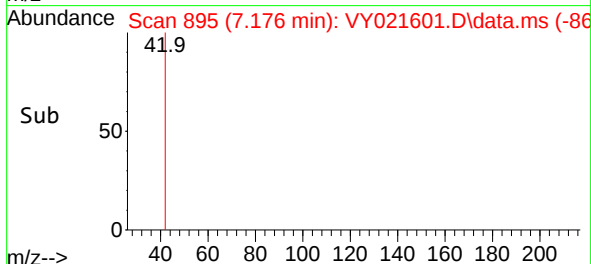
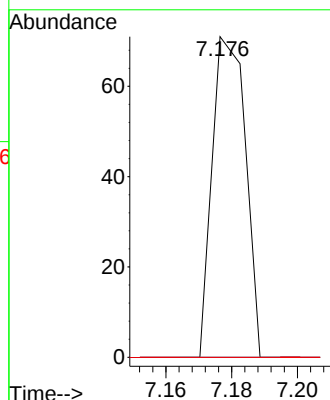
MSVOA_Y

ClientSampleId :

RT3025



Tgt Ion:	42	Resp:	50
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.8	52.2#
71	0.0	32.6	48.8#



#31

Cyclohexane

Concen: 1.277 ug/l

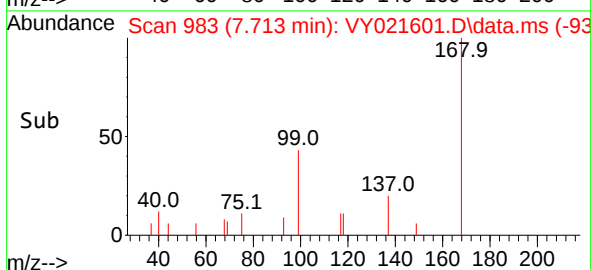
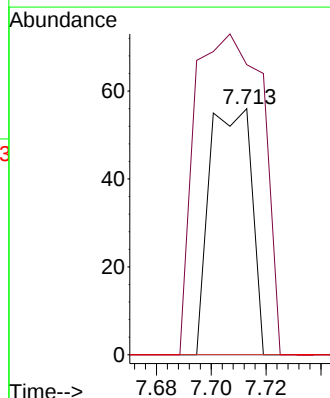
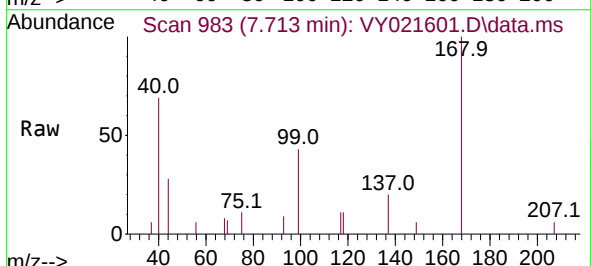
RT: 7.713 min Scan# 983

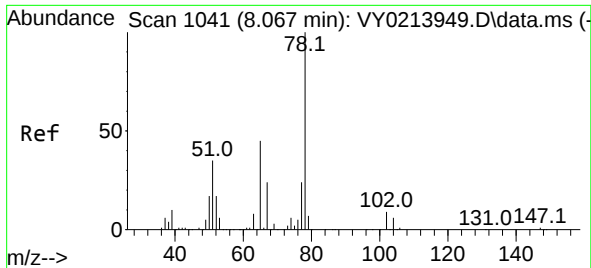
Delta R.T. 0.006 min

Lab File: VY021601.D

Acq: 21 Mar 2025 15:49

Tgt Ion:	56	Resp:	60
Ion	Ratio	Lower	Upper
56	100		
69	117.9	27.0	40.4#
84	0.0	71.1	106.7#

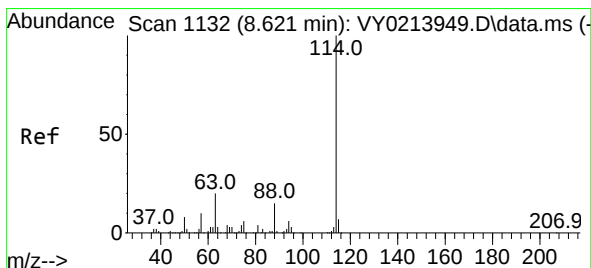
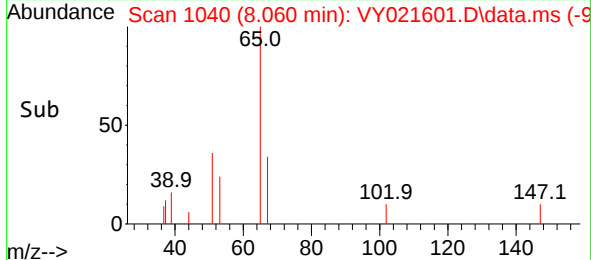
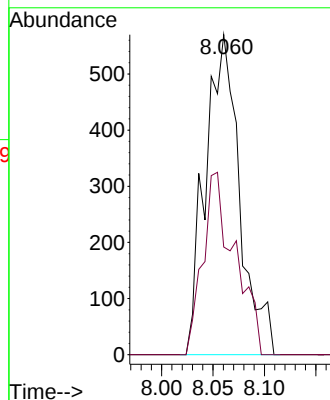
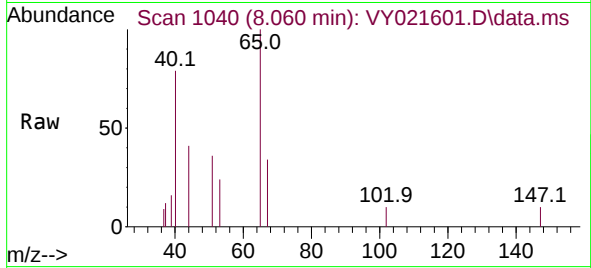




#33
 1,2-Dichloroethane-d4
 Concen: 52.589 ug/l
 RT: 8.060 min Scan# 1040
 Delta R.T. -0.006 min
 Lab File: VY021601.D
 Acq: 21 Mar 2025 15:49

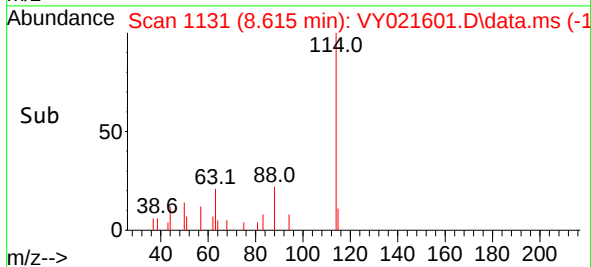
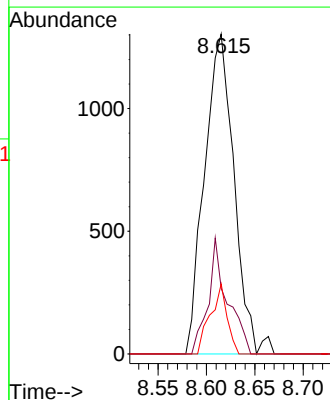
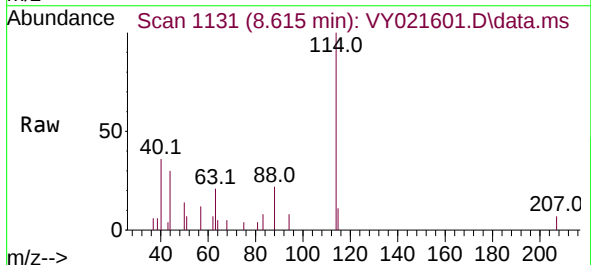
Instrument :
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 ClientSampleId :
 RT3025

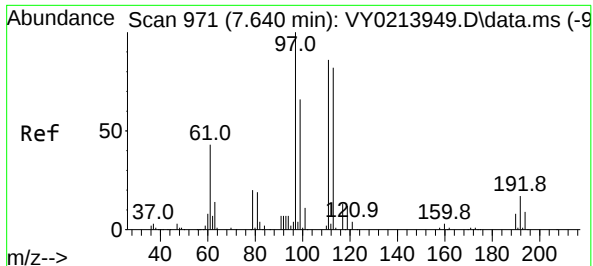
Tgt Ion: 65 Resp: 1319
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.615 min Scan# 1131
 Delta R.T. -0.006 min
 Lab File: VY021601.D
 Acq: 21 Mar 2025 15:49

Tgt Ion: 114 Resp: 2773
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.8
 88 21.9 0.0 30.8





#35

Dibromofluoromethane

Concen: 56.289 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021601.D

Acq: 21 Mar 2025 15:49

Instrument :

MSVOA_Y

ClientSampleId :

RT3025

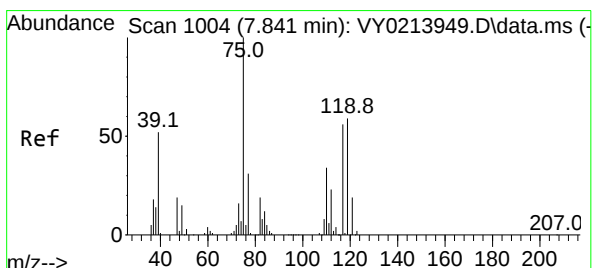
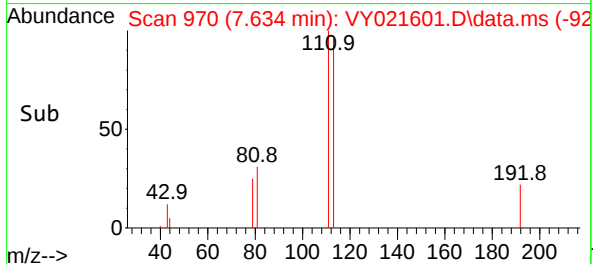
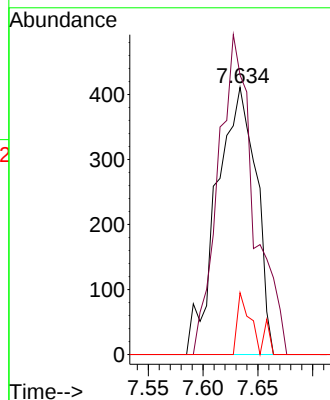
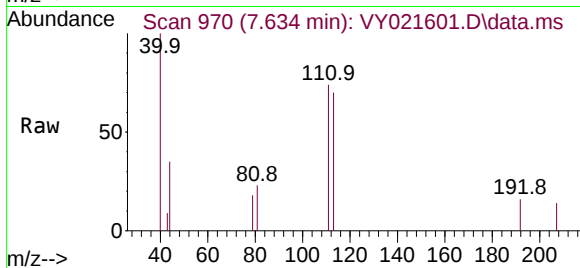
Tgt Ion:113 Resp: 1026

Ion Ratio Lower Upper

113 100

111 108.8 82.0 123.0

192 9.3 15.9 23.9#



#36

1,1-Dichloropropene

Concen: 4.697 ug/l

RT: 7.719 min Scan# 984

Delta R.T. -0.122 min

Lab File: VY021601.D

Acq: 21 Mar 2025 15:49

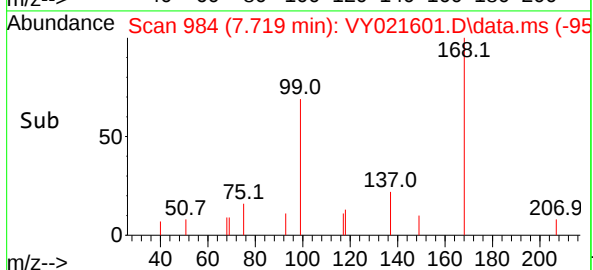
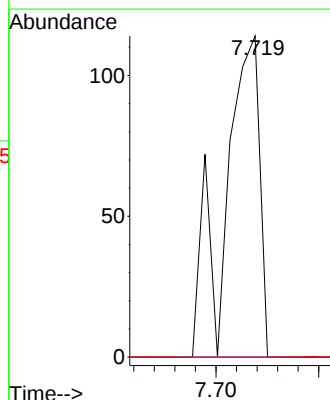
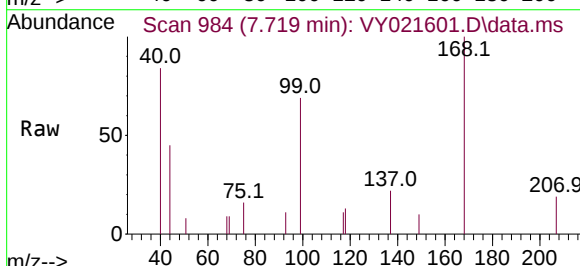
Tgt Ion: 75 Resp: 134

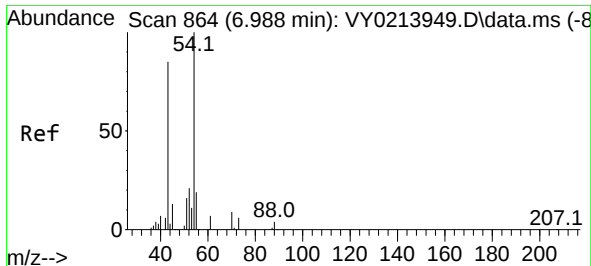
Ion Ratio Lower Upper

75 100

110 0.0 17.3 51.7#

77 0.0 25.4 38.2#





#37

Ethyl Acetate

Concen: 3.965 ug/l

RT: 6.951 min Scan# 81

Delta R.T. -0.037 min

Lab File: VY021601.D

Acq: 21 Mar 2025 15:49

Instrument :

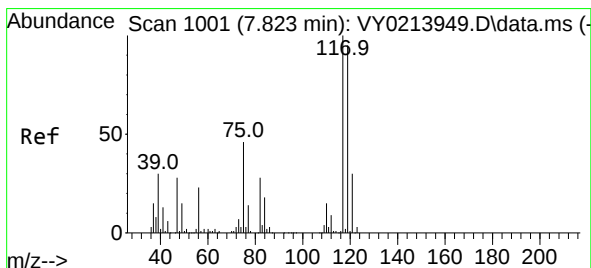
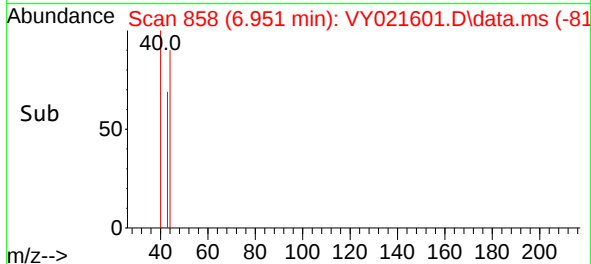
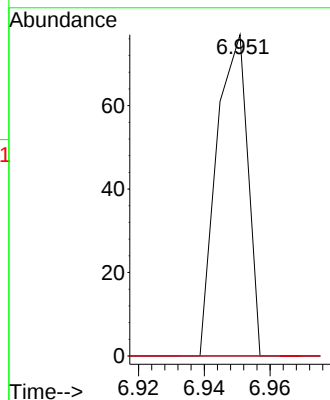
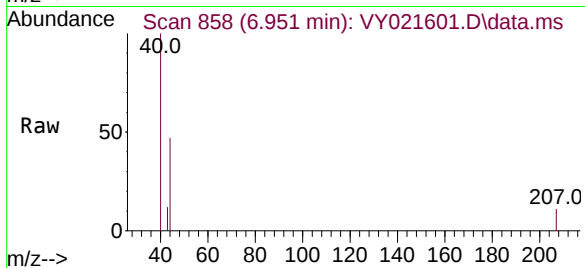
MSVOA_Y

ClientSampleId :

RT3025

Tgt Ion: 43 Resp: 50

Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.4	17.0#
70	0.0	8.2	12.2#



#38

Carbon Tetrachloride

Concen: 6.948 ug/l

RT: 7.701 min Scan# 981

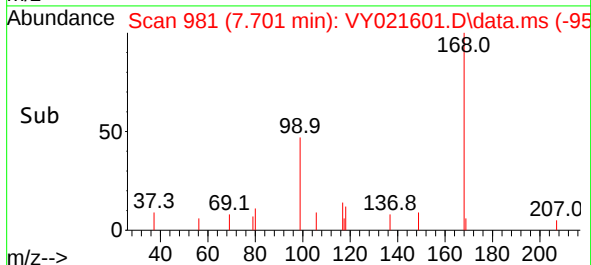
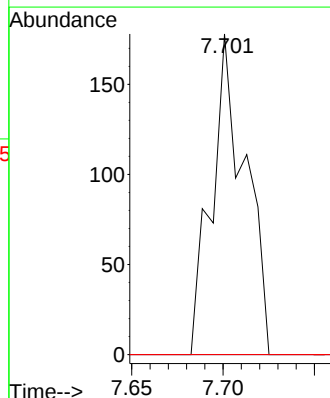
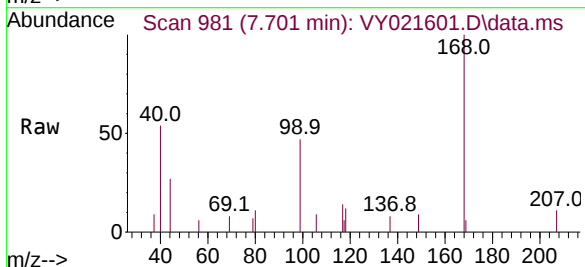
Delta R.T. -0.122 min

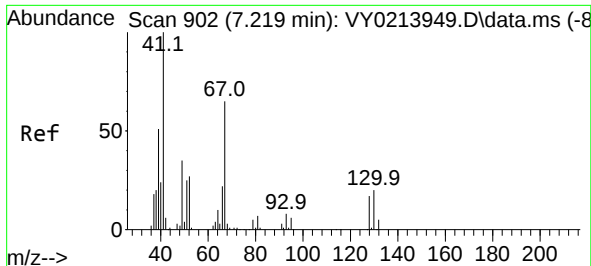
Lab File: VY021601.D

Acq: 21 Mar 2025 15:49

Tgt Ion: 117 Resp: 228

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.8	113.8#
121	0.0	23.9	35.9#

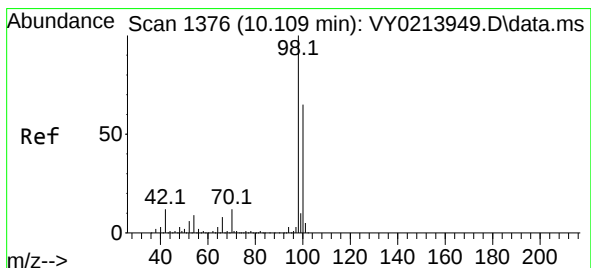
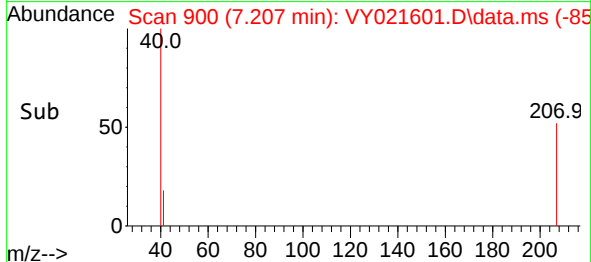
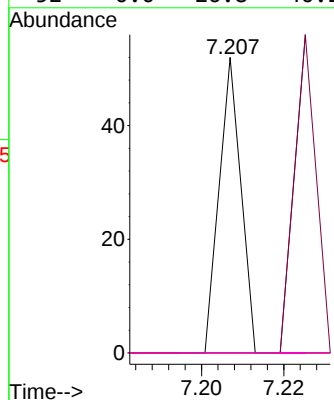
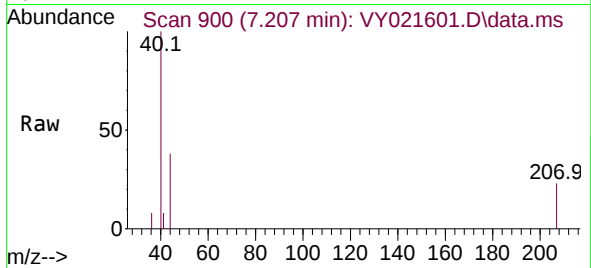




#41
Methacrylonitrile
Concen: 2.767 ug/l
RT: 7.207 min Scan# 902
Delta R.T. -0.012 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

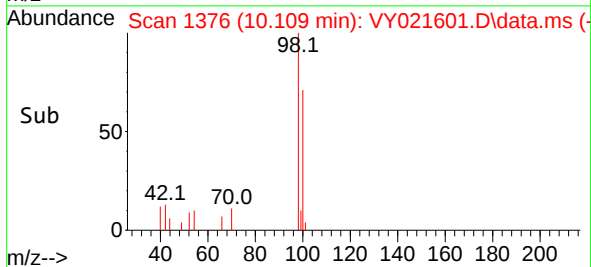
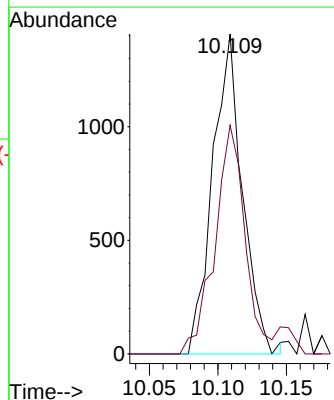
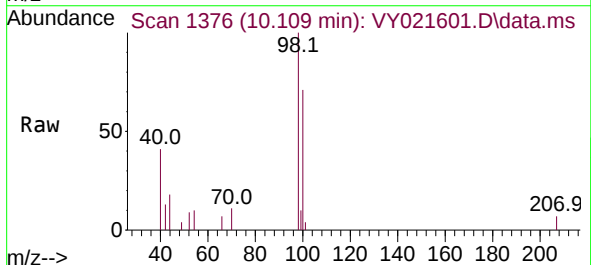
Instrument :
MSVOA_Y
ClientSampleId :
RT3025

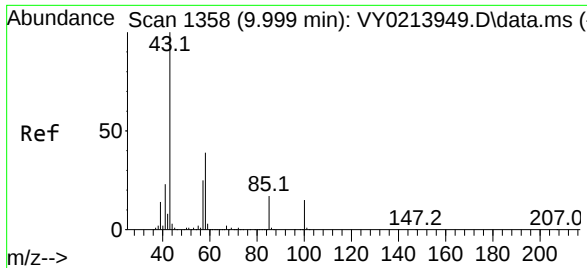
Tgt Ion: 41	Resp: 19
Ion Ratio	Lower Upper
41 100	
39 105.3	35.0 52.6#
67 0.0	61.2 91.8#
52 0.0	26.8 40.2#



#50
Toluene-d8
Concen: 30.950 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion: 98	Resp: 2136		
Ion Ratio	Lower	Upper	
98 100			
100 72.0	52.1	78.1	

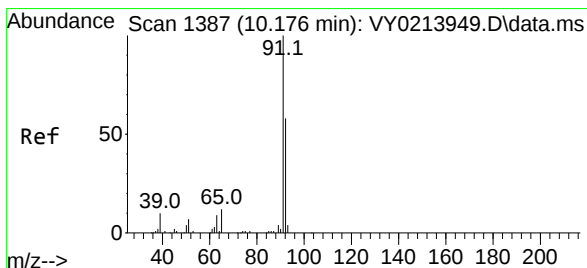
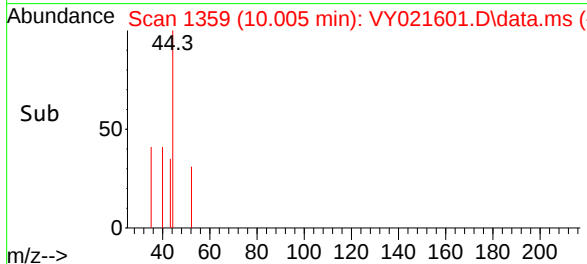
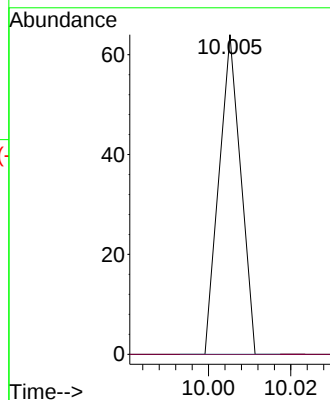
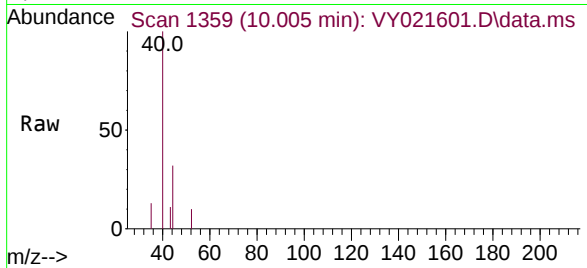




#51
4-Methyl-2-Pentanone
Concen: 1.821 ug/l
RT: 10.005 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

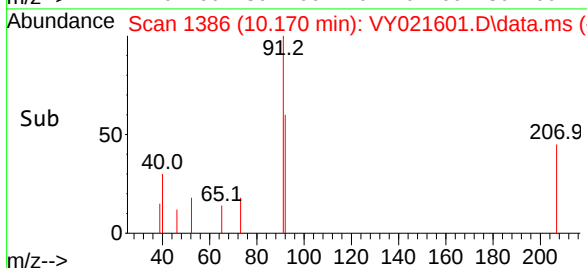
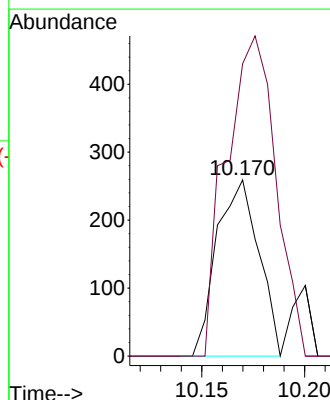
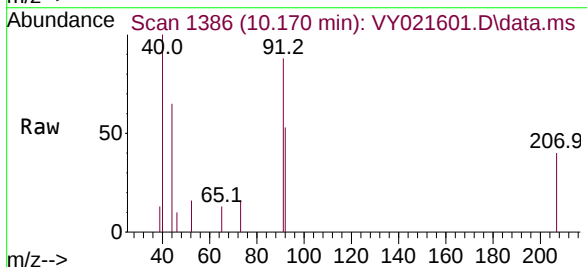
Instrument :
MSVOA_Y
ClientSampleId :
RT3025

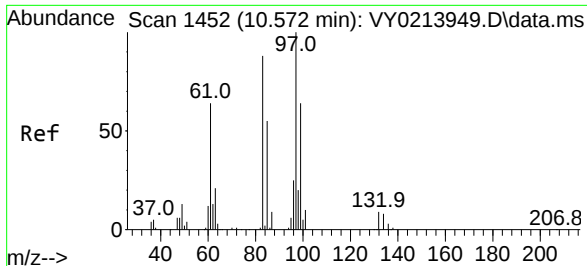
Tgt Ion: 43 Resp: 23
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#



#52
Toluene
Concen: 6.945 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion: 92 Resp: 368
Ion Ratio Lower Upper
92 100
91 215.8 138.2 207.2#





#55

1,1,2-Trichloroethane

Concen: 1.374 ug/l

RT: 10.341 min Scan# 1452

Delta R.T. -0.232 min

Lab File: VY021601.D

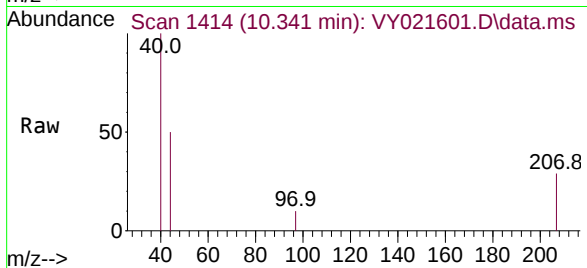
Acq: 21 Mar 2025 15:49

Instrument :

MSVOA_Y

ClientSampleId :

RT3025



Tgt Ion: 97 Resp: 20

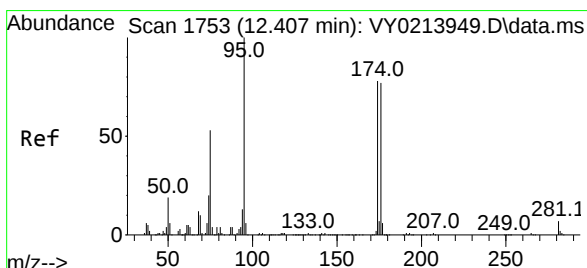
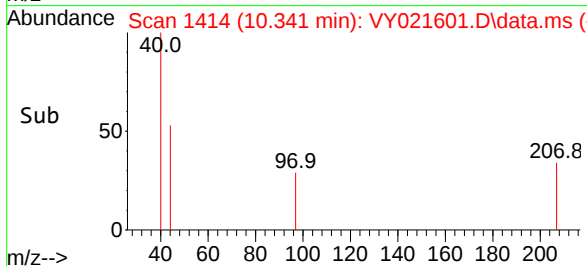
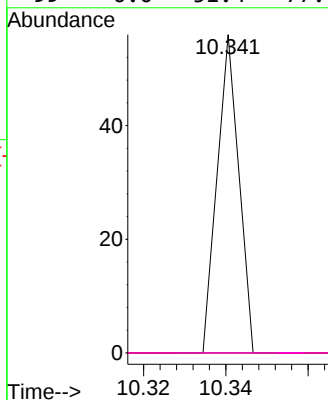
Ion Ratio Lower Upper

97 100

83 0.0 70.0 105.0#

85 0.0 44.3 66.5#

99 0.0 51.4 77.0#



#62

4-Bromofluorobenzene

Concen: 10.308 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY021601.D

Acq: 21 Mar 2025 15:49

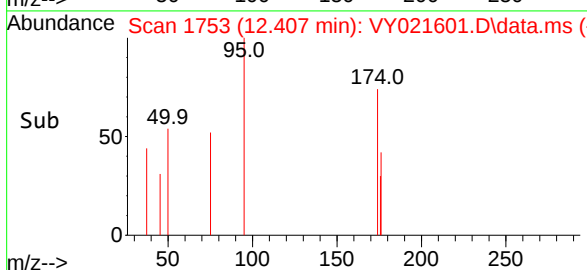
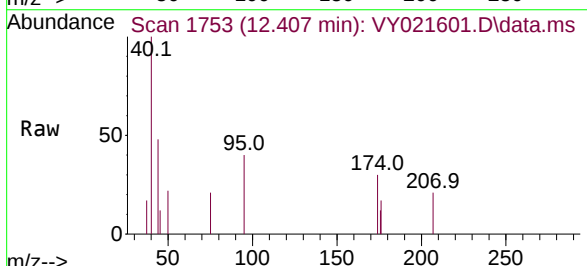
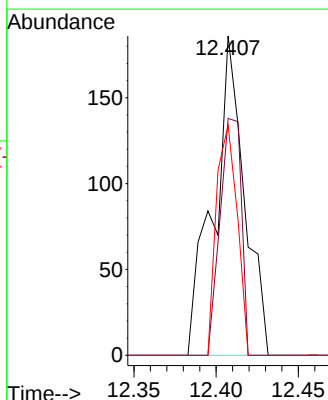
Tgt Ion: 95 Resp: 242

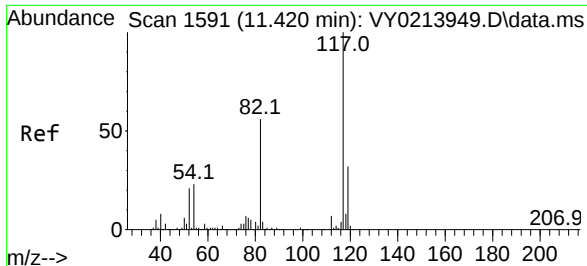
Ion Ratio Lower Upper

95 100

174 51.2 0.0 165.0

176 48.3 0.0 160.0

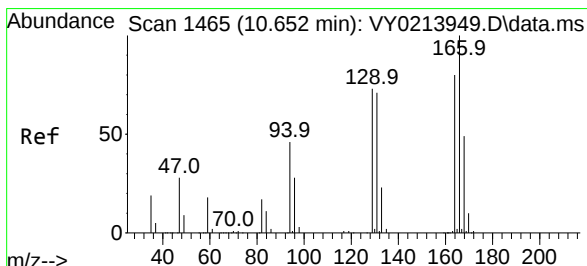
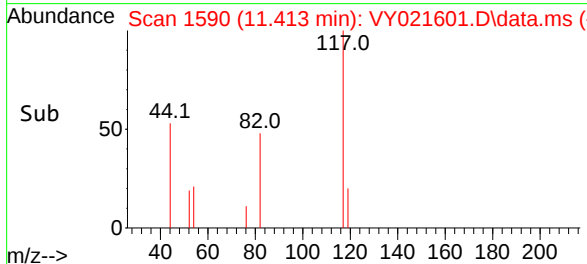
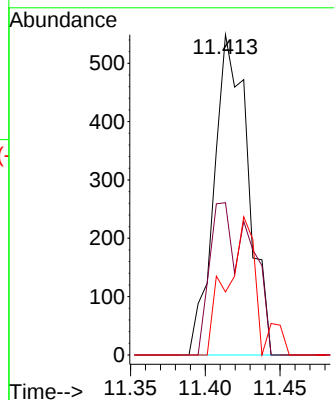
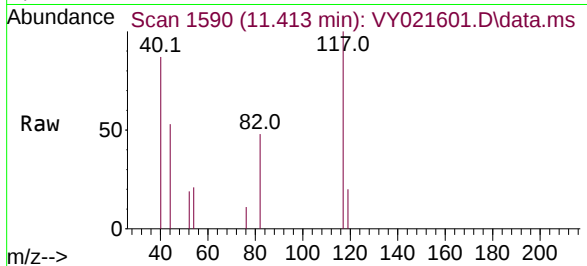




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

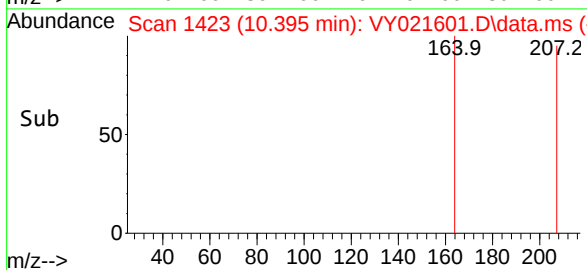
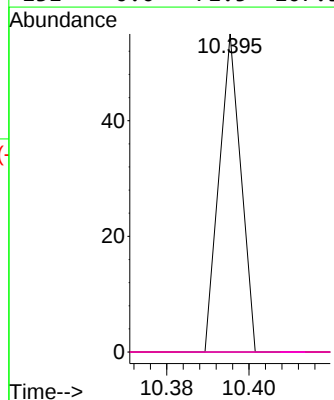
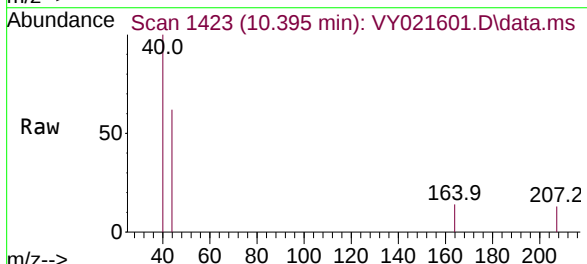
Instrument :
MSVOA_Y
ClientSampleId :
RT3025

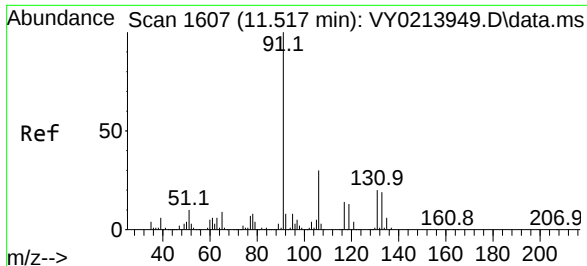
Tgt Ion:117 Resp: 867
Ion Ratio Lower Upper
117 100
82 47.5 44.6 67.0
119 19.7 25.4 38.0#



#64
Tetrachloroethene
Concen: 2.837 ug/l
RT: 10.395 min Scan# 1423
Delta R.T. -0.256 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion:164 Resp: 20
Ion Ratio Lower Upper
164 100
166 0.0 100.4 150.6#
129 0.0 73.8 110.8#
131 0.0 71.5 107.3#

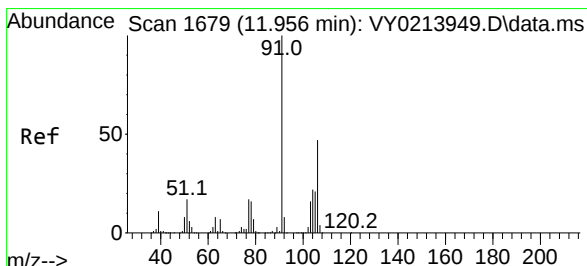
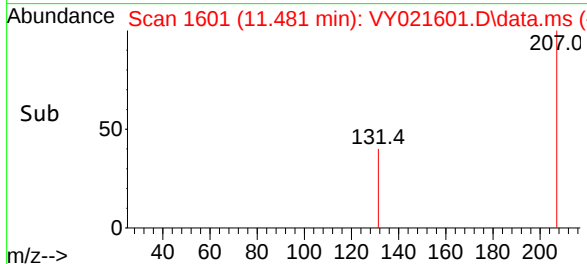
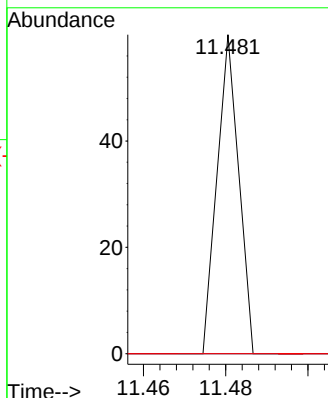
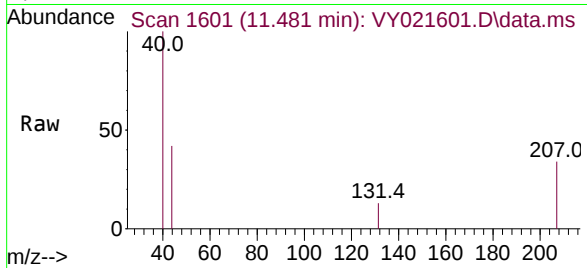




#66
1,1,1,2-Tetrachloroethane
Concen: 3.039 ug/l
RT: 11.481 min Scan# 1
Delta R.T. -0.037 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

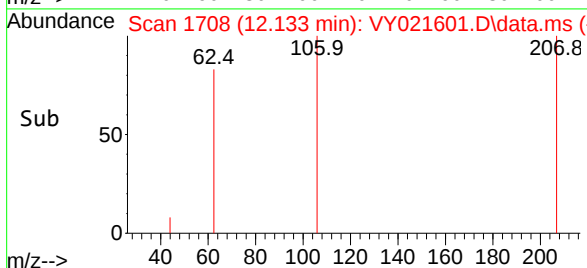
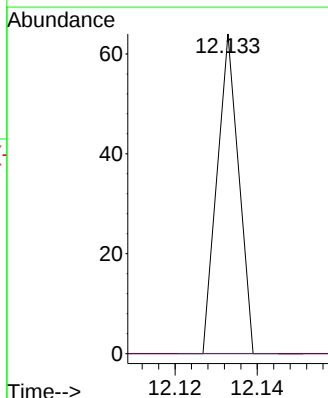
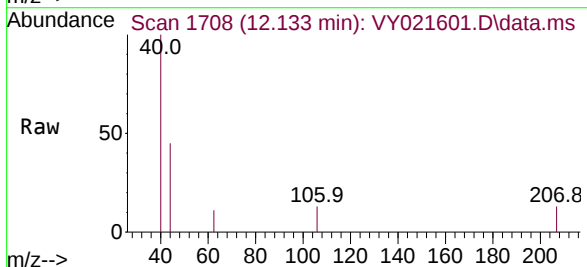
Instrument :
MSVOA_Y
ClientSampleId :
RT3025

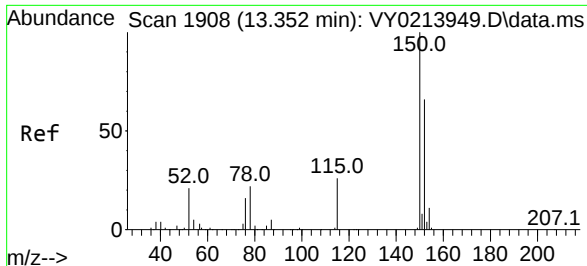
Tgt Ion:131 Resp: 22
Ion Ratio Lower Upper
131 100
133 0.0 47.6 142.9#
119 0.0 32.3 96.9#



#69
o-Xylene
Concen: 1.829 ug/l
RT: 12.133 min Scan# 1708
Delta R.T. 0.177 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion:106 Resp: 23
Ion Ratio Lower Upper
106 100
91 0.0 107.6 322.8#

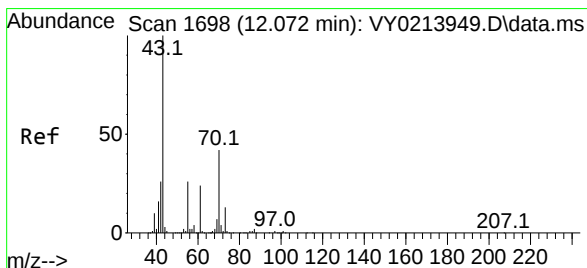
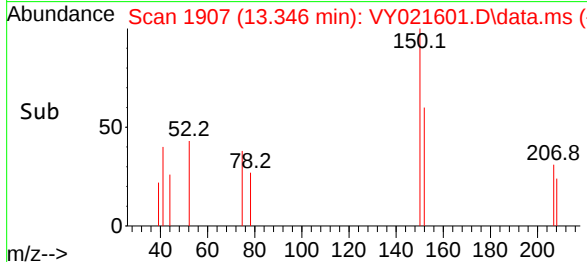
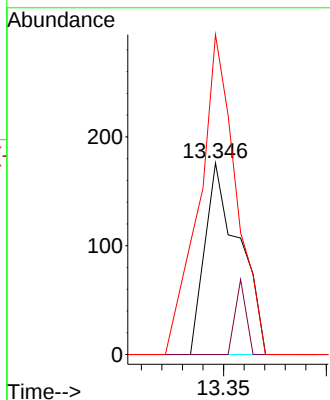
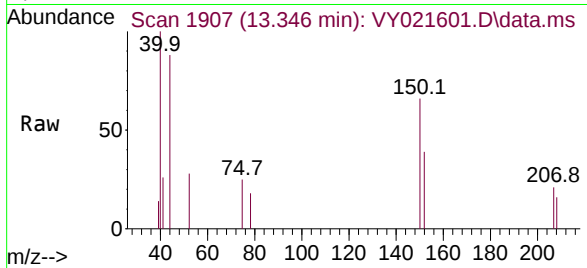




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

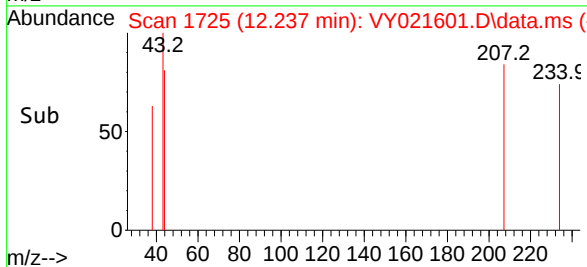
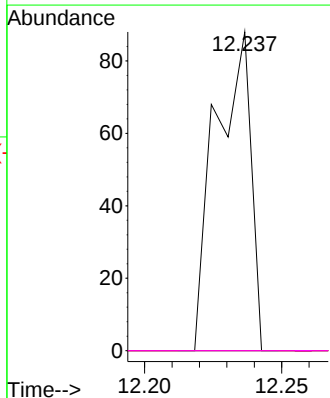
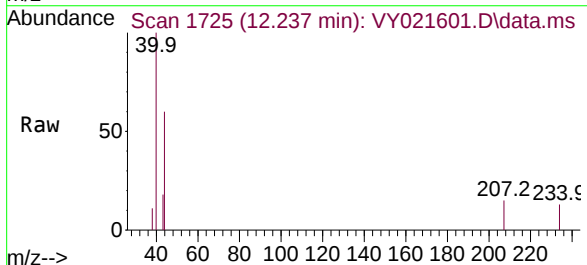
Instrument :
MSVOA_Y
ClientSampleId :
RT3025

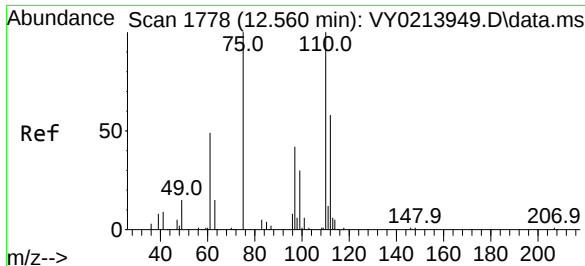
Tgt Ion:152 Resp: 203
Ion Ratio Lower Upper
152 100
115 12.3 29.0 87.0#
150 181.3 0.0 347.2



#74
N-ethyl acetate
Concen: 22.748 ug/l
RT: 12.237 min Scan# 1725
Delta R.T. 0.165 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion: 43 Resp: 79
Ion Ratio Lower Upper
43 100
70 0.0 34.6 51.8#
55 0.0 21.1 31.7#
61 0.0 19.4 29.0#

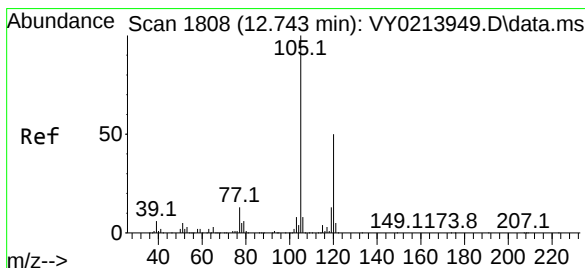
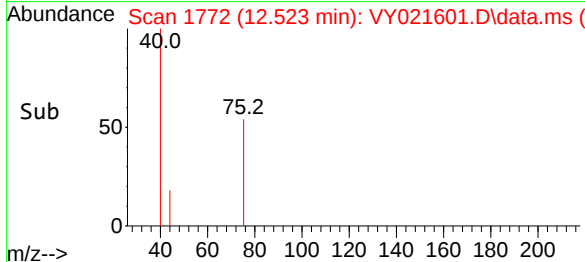
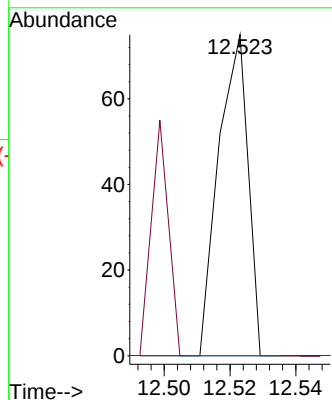
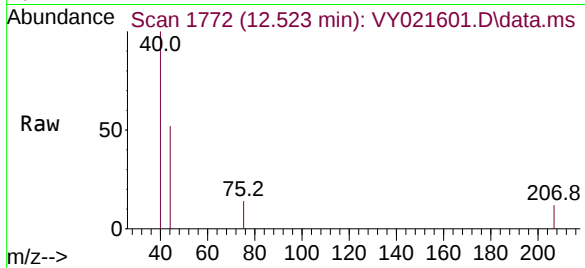




#76
1,2,3-Trichloropropane
Concen: 22.487 ug/l
RT: 12.523 min Scan# 11
Delta R.T. -0.037 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

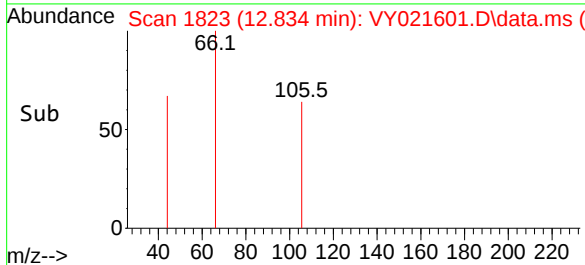
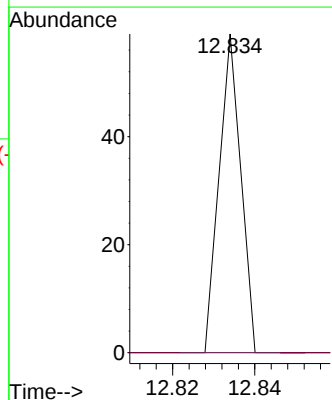
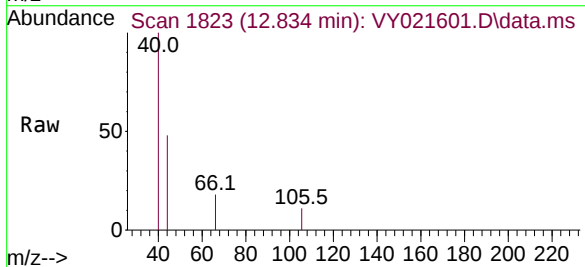
Instrument :
MSVOA_Y
ClientSampleId :
RT3025

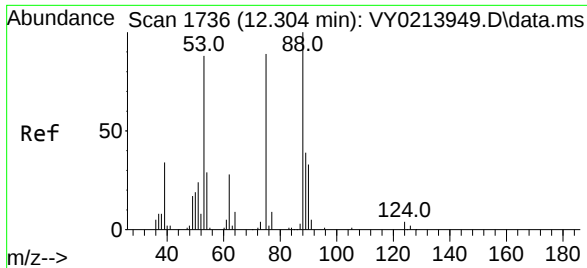
Tgt Ion: 75 Resp: 46
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#80
1,3,5-Trimethylbenzene
Concen: 1.693 ug/l
RT: 12.834 min Scan# 1823
Delta R.T. 0.091 min
Lab File: VY021601.D
Acq: 21 Mar 2025 15:49

Tgt Ion: 105 Resp: 22
Ion Ratio Lower Upper
105 100
120 0.0 24.6 73.6#

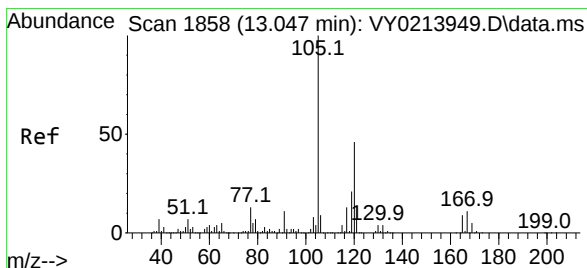
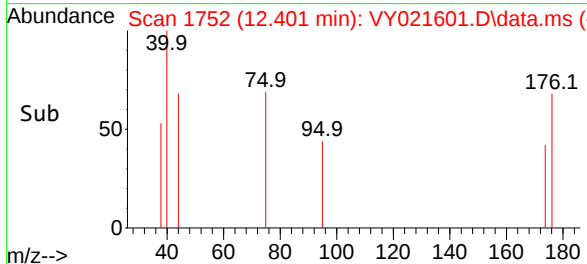
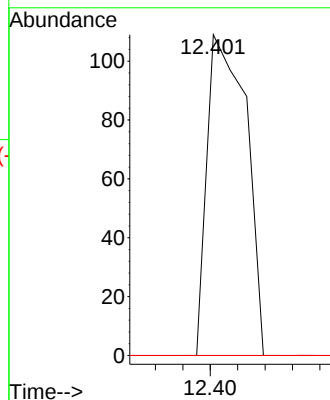
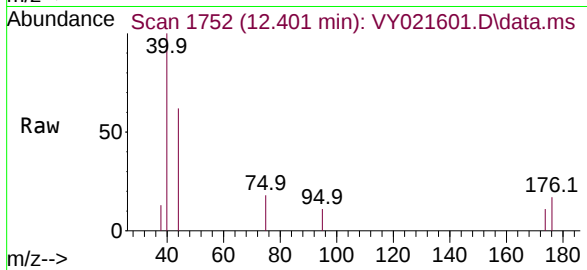




#81
 trans-1,4-Dichloro-2-butene
 Concen: 120.022 ug/l
 RT: 12.401 min Scan# 11
 Delta R.T. 0.097 min
 Lab File: VY021601.D
 Acq: 21 Mar 2025 15:49

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT3025

Tgt Ion: 75 Resp: 108
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.4#
 89 0.0 36.9 55.3#



#84
 1,2,4-Trimethylbenzene
 Concen: 1.705 ug/l
 RT: 12.834 min Scan# 1823
 Delta R.T. -0.213 min
 Lab File: VY021601.D
 Acq: 21 Mar 2025 15:49

Tgt Ion: 105 Resp: 22
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.7 68.1#

