

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021672.D
 Acq On : 27 Mar 2025 17:21
 Operator : SY/MD
 Sample : Q1650-02
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 STOCK-PILE-BIN2

Quant Time: Mar 28 04:03:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

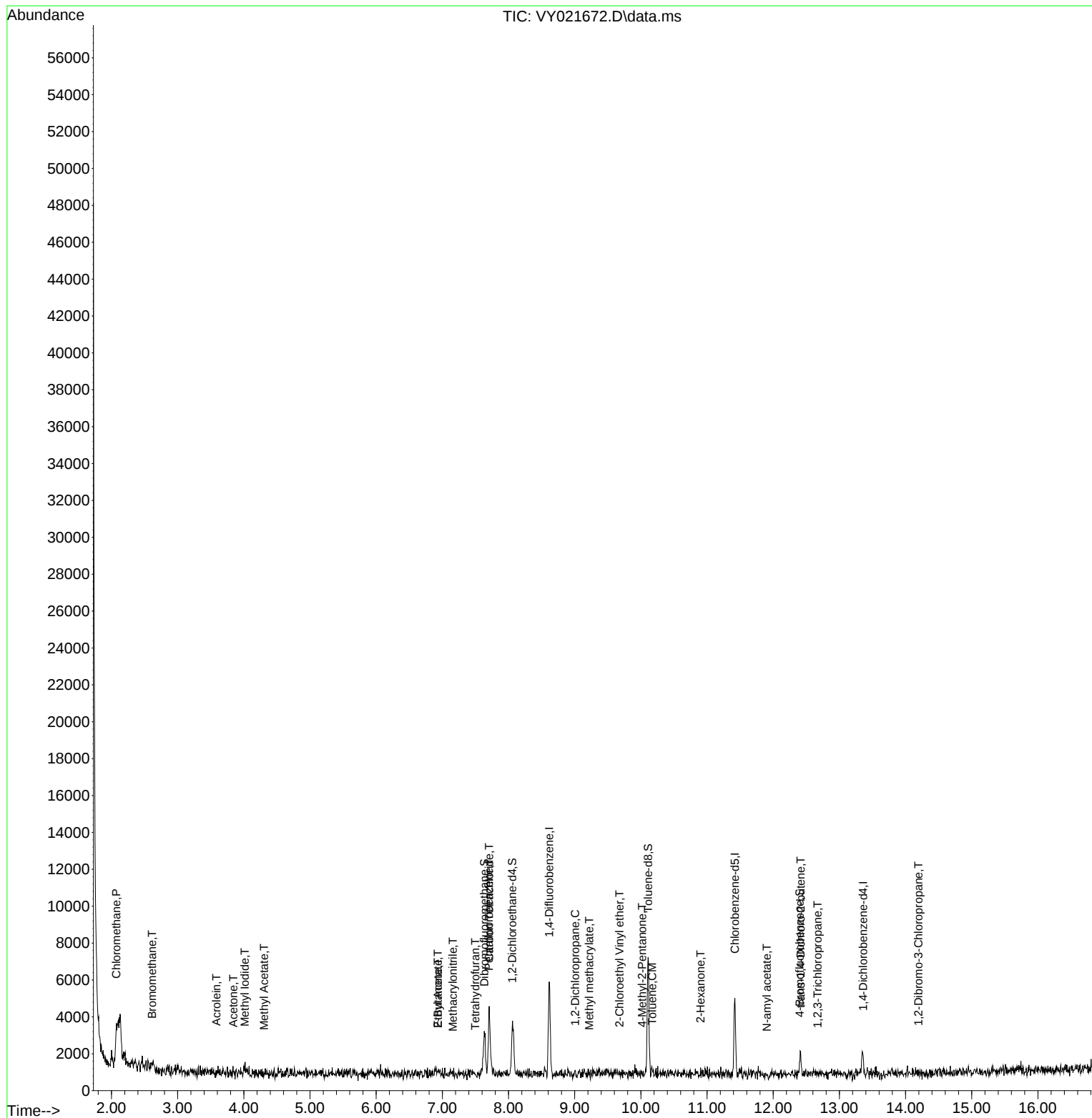
Internal Standards						
1) Pentafluorobenzene	7.701	168	2649	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	4268	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	2599	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.359	152	463	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	2172	75.676	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 151.360%	
35) Dibromofluoromethane	7.634	113	1772	64.004	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 128.000%	
50) Toluene-d8	10.109	98	4578	43.465	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 86.940%	
62) 4-Bromofluorobenzene	12.402	95	470	13.193	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 26.380%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	330	8.548	ug/l	90
5) Bromomethane	2.611	94	247	8.294	ug/l	100
10) Methyl Iodide	4.013	142	432	13.349	ug/l #	42
13) Acrolein	3.586	56	19	5.582	ug/l #	14
16) Acetone	3.842	43	83	14.130	ug/l #	44
18) Methyl Acetate	4.305	43	23	1.580	ug/l #	51
20) Methylene Chloride	4.647	84	22	Below Cal	#	5
25) 2-Butanone	6.933	43	23	2.741	ug/l #	48
29) Tetrahydrofuran	7.500	42	40	7.408	ug/l #	34
37) Ethyl Acetate	6.933	43	23	1.156	ug/l #	69
38) Carbon Tetrachloride	7.707	117	156	3.230	ug/l #	12
41) Methacrylonitrile	7.159	41	33	3.122	ug/l #	100
45) 1,2-Dichloropropane	9.006	63	42	1.405	ug/l #	44
48) Methyl methacrylate	9.219	41	46	2.657	ug/l #	26
51) 4-Methyl-2-Pentanone	10.018	43	44	2.242	ug/l #	36
52) Toluene	10.170	92	140	1.777	ug/l	82
58) 2-Chloroethyl Vinyl ether	9.676	63	34	2.462	ug/l #	47
59) 2-Hexanone	10.902	43	39	2.984	ug/l	92
74) N-amyl acetate	11.902	43	19	2.354	ug/l #	42
76) 1,2,3-Trichloropropane	12.670	75	20	4.358	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.414	75	223	111.957	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.194	75	29	30.263	ug/l #	1

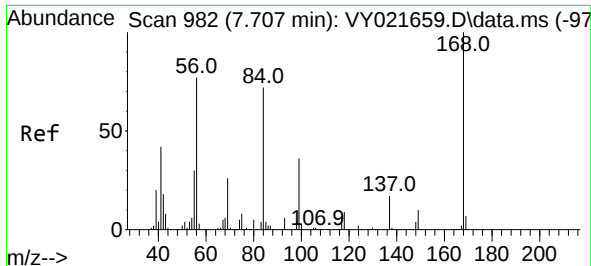
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
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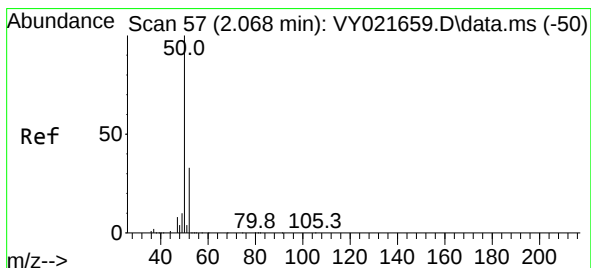
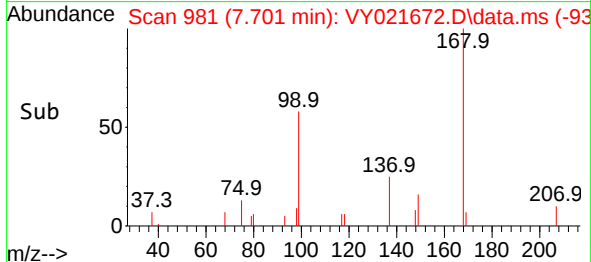
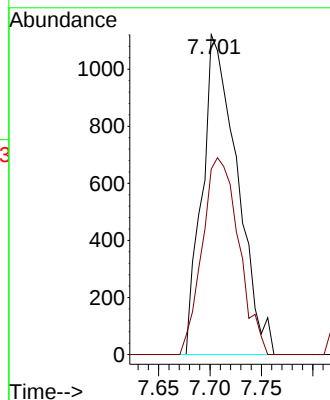
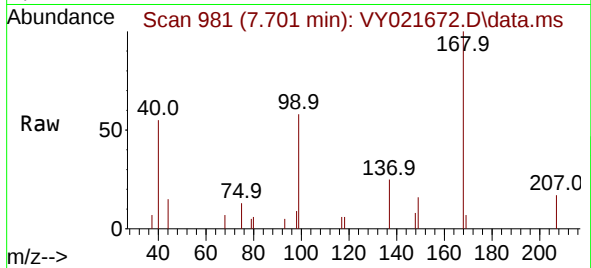




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

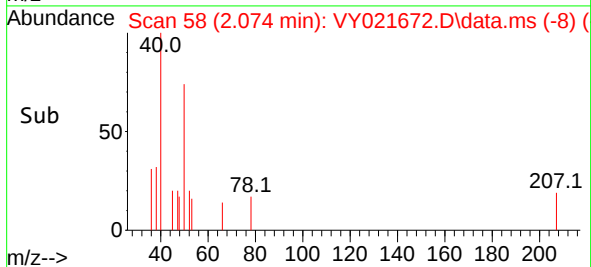
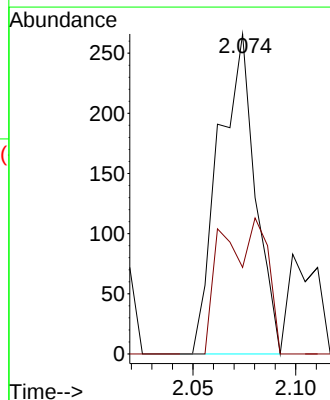
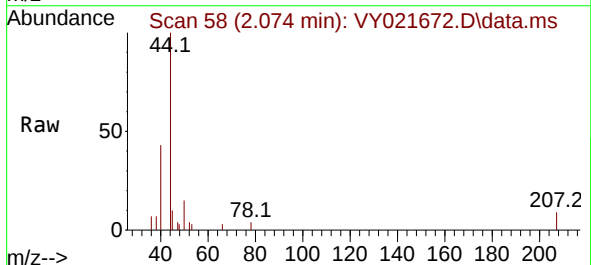
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

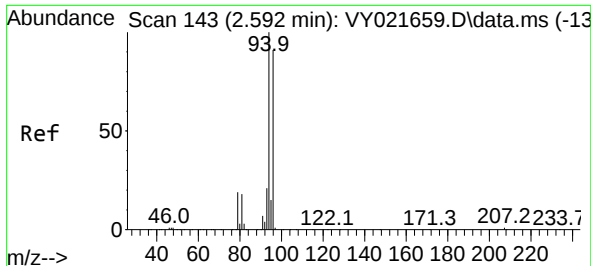
Tgt Ion:168 Resp: 2649
Ion Ratio Lower Upper
168 100
99 58.0 46.7 70.1



#3
Chloromethane
Concen: 8.548 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 50 Resp: 330
Ion Ratio Lower Upper
50 100
52 27.1 26.3 39.5

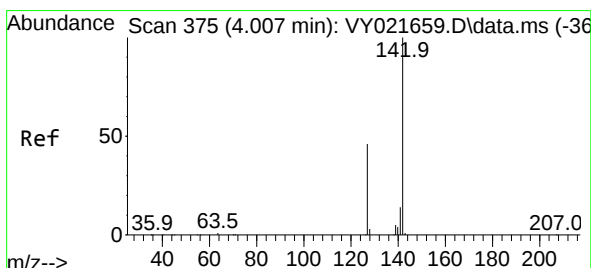
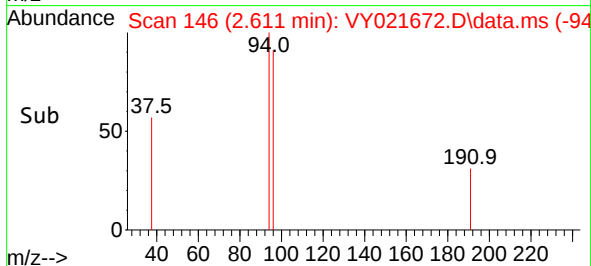
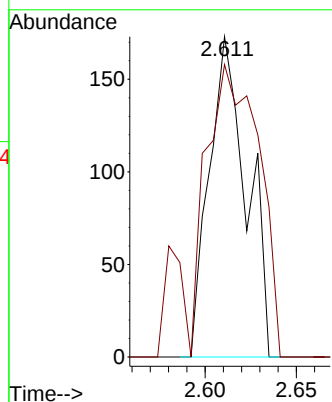
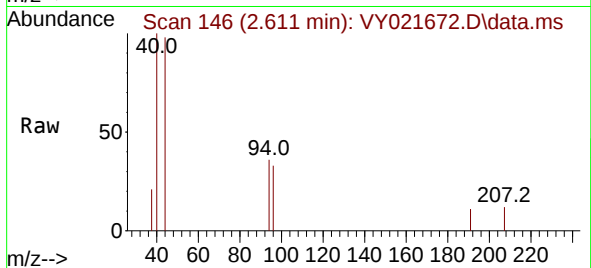




#5
Bromomethane
Concen: 8.294 ug/l
RT: 2.611 min Scan# 143
Delta R.T. 0.018 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

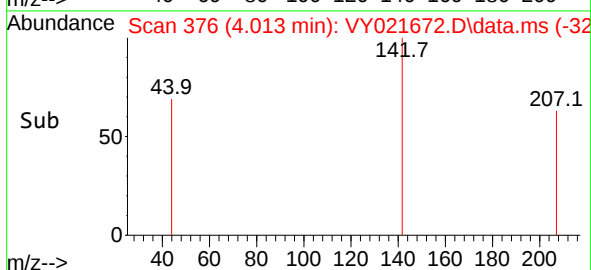
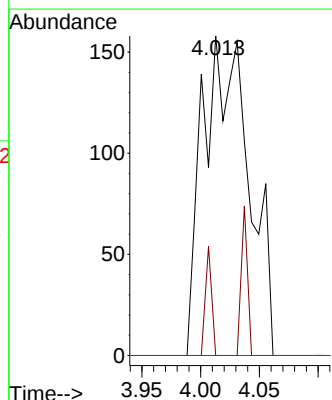
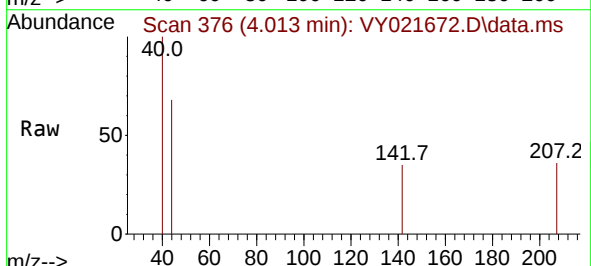
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

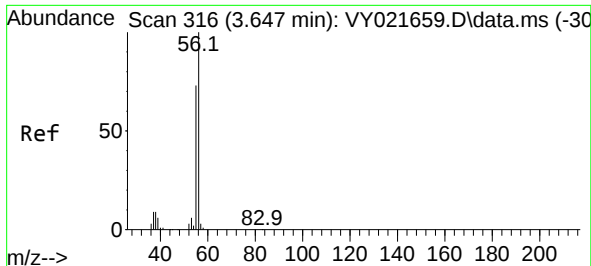
Tgt Ion: 94 Resp: 247
Ion Ratio Lower Upper
94 100
96 91.3 72.8 109.2



#10
Methyl Iodide
Concen: 13.349 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 142 Resp: 432
Ion Ratio Lower Upper
142 100
127 4.6 38.7 58.1#
141 0.0 11.5 17.3#

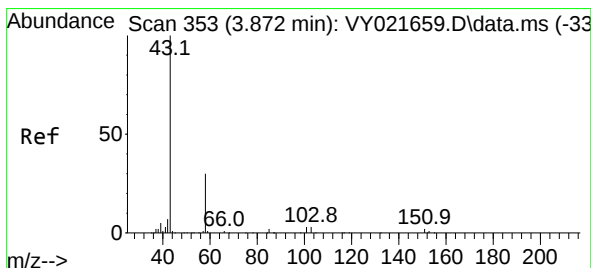
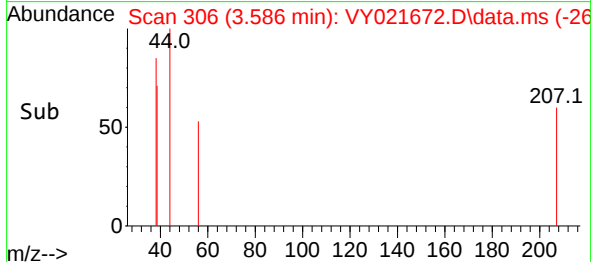
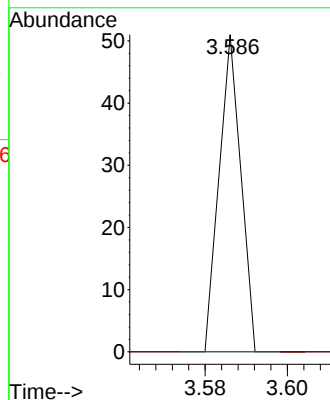
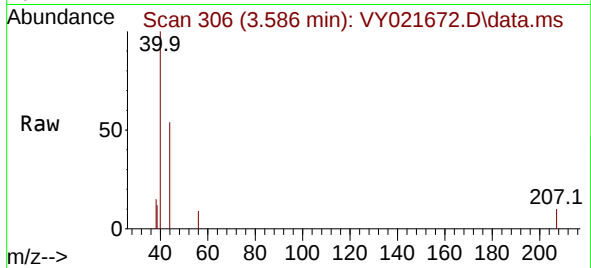




#13
Acrolein
Concen: 5.582 ug/l
RT: 3.586 min Scan# 306
Delta R.T. -0.061 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

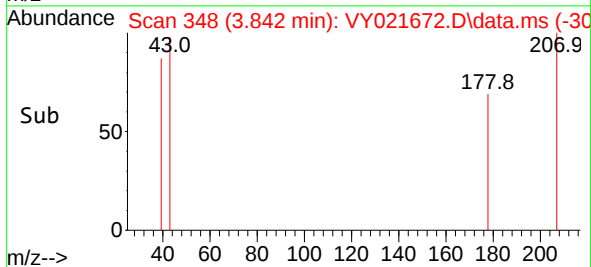
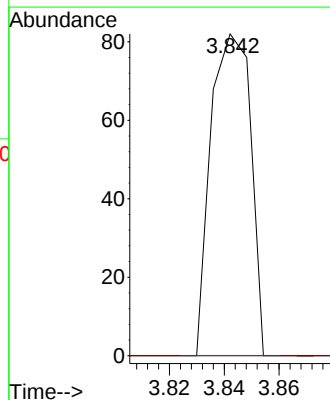
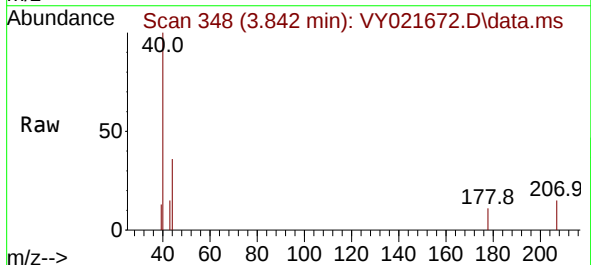
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

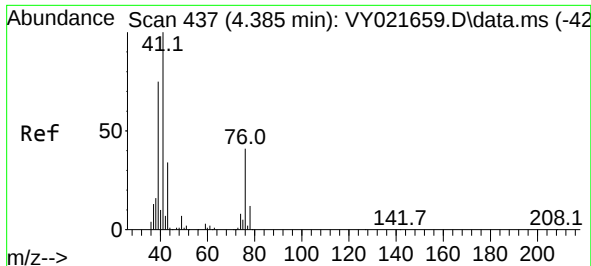
Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#



#16
Acetone
Concen: 14.130 ug/l
RT: 3.842 min Scan# 348
Delta R.T. -0.030 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 43 Resp: 83
Ion Ratio Lower Upper
43 100
58 0.0 24.2 36.4#

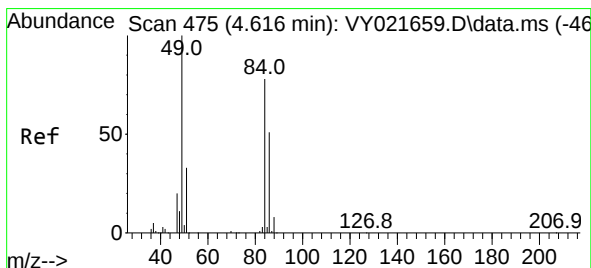
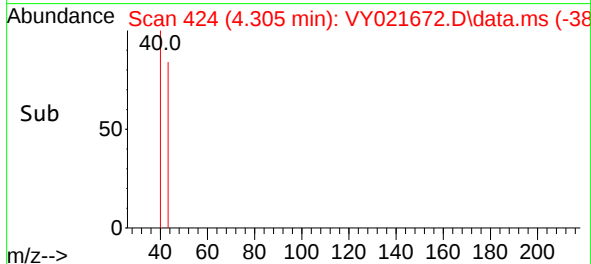
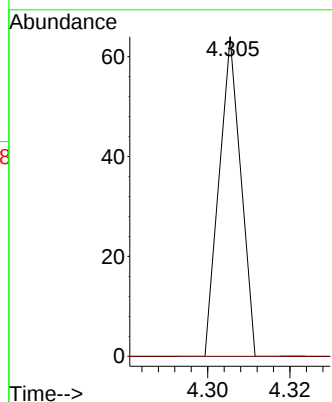
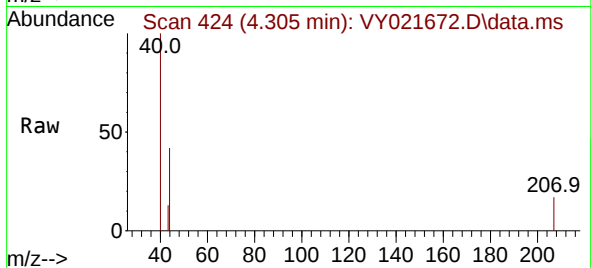




#18
Methyl Acetate
Concen: 1.580 ug/l
RT: 4.305 min Scan# 41
Delta R.T. -0.079 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

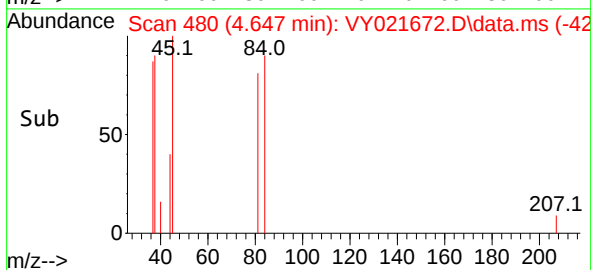
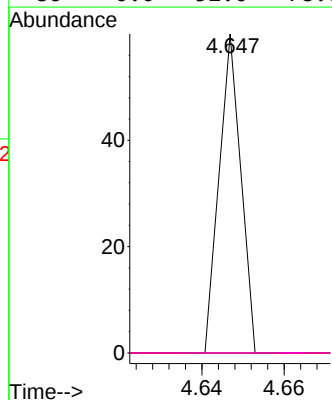
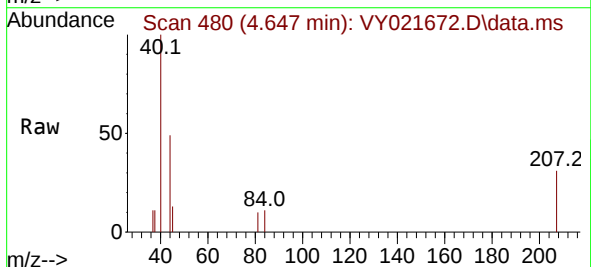
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

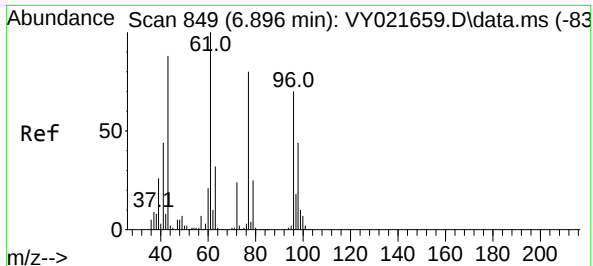
Tgt Ion: 43 Resp: 23
Ion Ratio Lower Upper
43 100
74 0.0 19.1 28.7#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.647 min Scan# 480
Delta R.T. 0.031 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 84 Resp: 22
Ion Ratio Lower Upper
84 100
49 0.0 102.8 154.2#
51 0.0 33.5 50.3#
86 0.0 52.0 78.0#





#25

2-Butanone

Concen: 2.741 ug/l

RT: 6.933 min Scan# 849

Delta R.T. 0.037 min

Lab File: VY021672.D

Acq: 27 Mar 2025 17:21

Instrument :

MSVOA_Y

ClientSampleId :

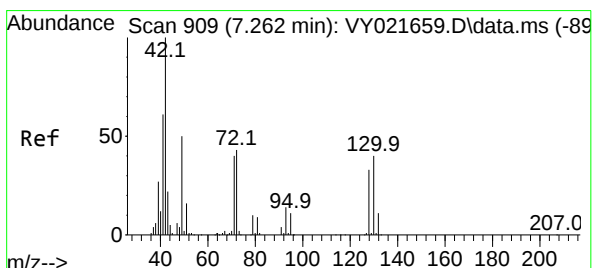
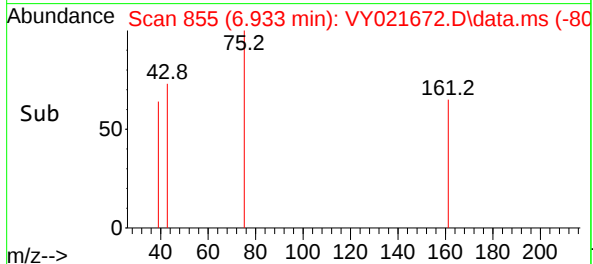
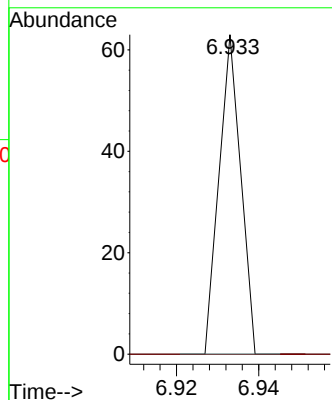
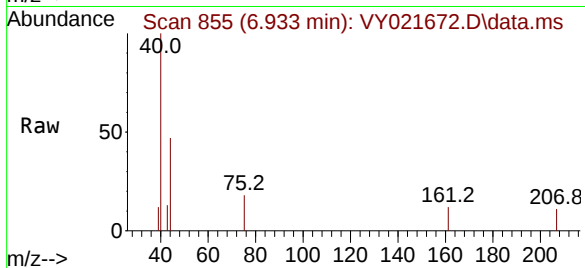
STOCK-PILE-BIN2

Tgt Ion: 43 Resp: 23

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.2#



#29

Tetrahydrofuran

Concen: 7.408 ug/l

RT: 7.500 min Scan# 948

Delta R.T. 0.238 min

Lab File: VY021672.D

Acq: 27 Mar 2025 17:21

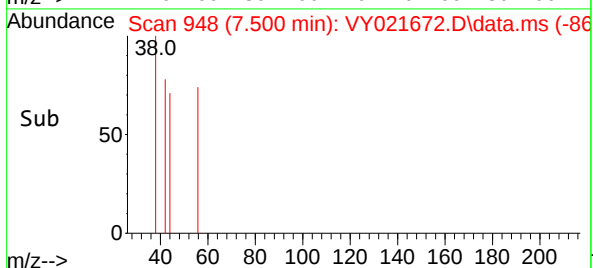
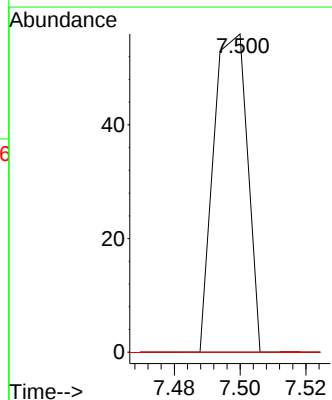
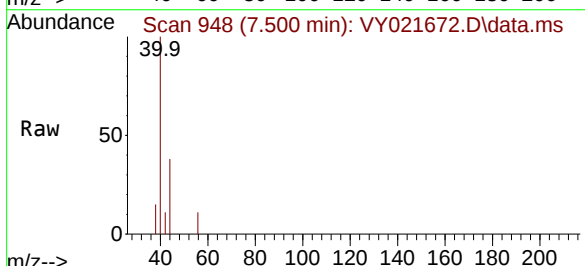
Tgt Ion: 42 Resp: 40

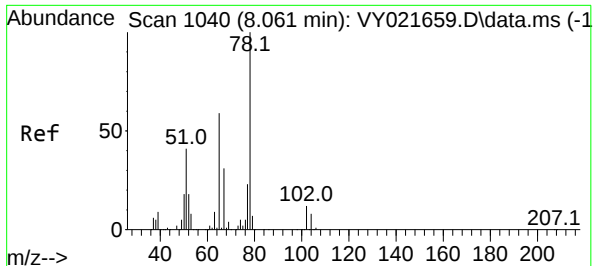
Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

71 0.0 32.5 48.7#





#33

1,2-Dichloroethane-d4

Concen: 75.676 ug/l

RT: 8.055 min Scan# 11039

Delta R.T. -0.006 min

Lab File: VY021672.D

Acq: 27 Mar 2025 17:21

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ClientSampleId :

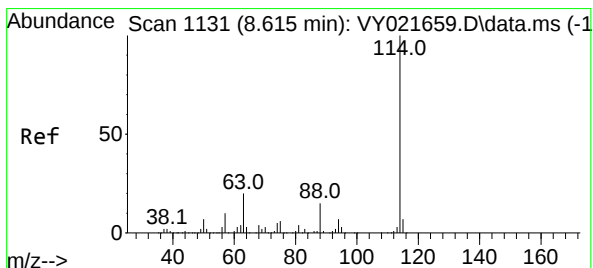
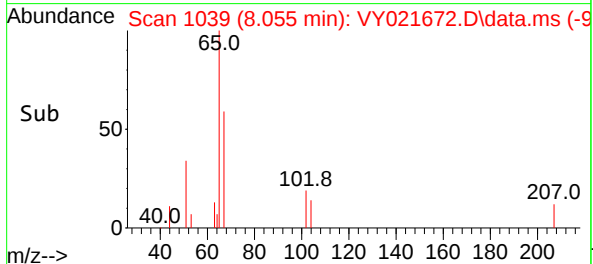
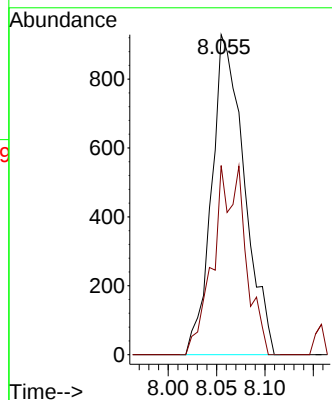
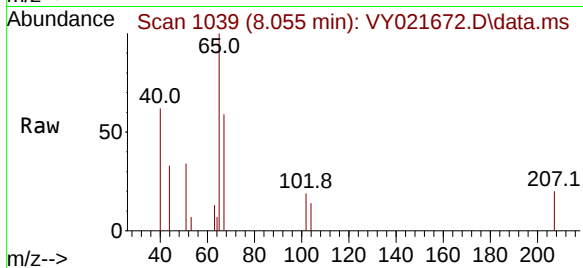
STOCK-PILE-BIN2

Tgt Ion: 65 Resp: 2172

Ion Ratio Lower Upper

65 100

67 57.5 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021672.D

Acq: 27 Mar 2025 17:21

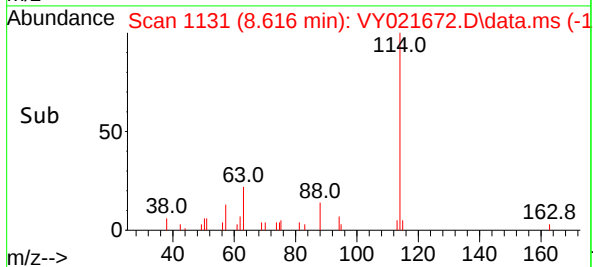
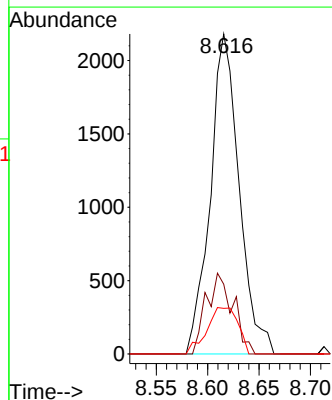
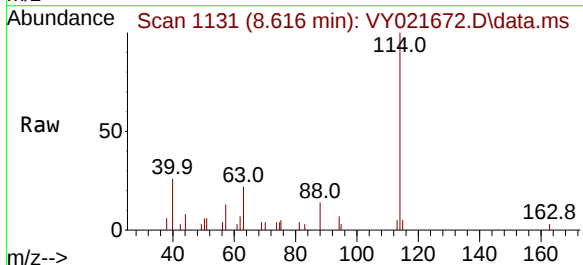
Tgt Ion: 114 Resp: 4268

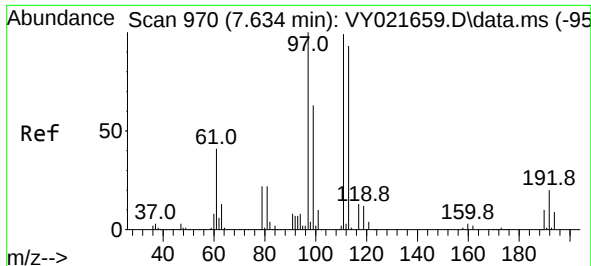
Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.2

88 14.3 0.0 29.8

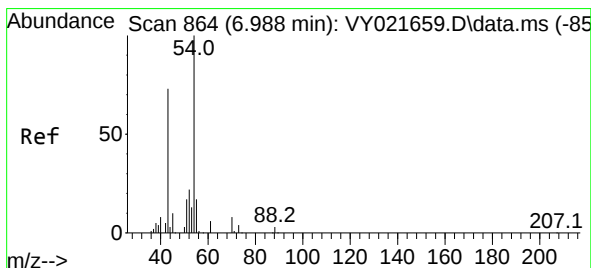
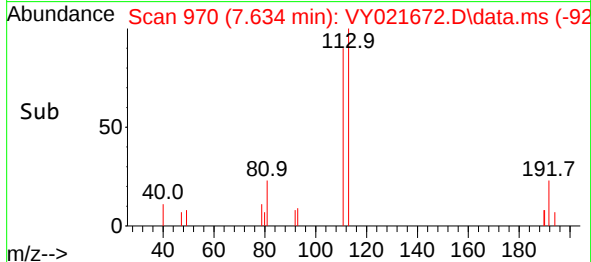
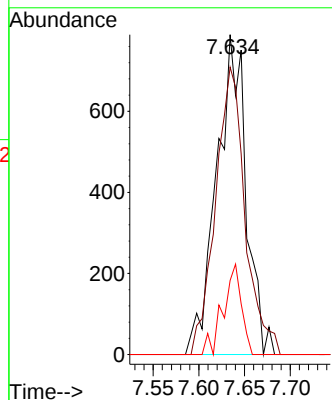
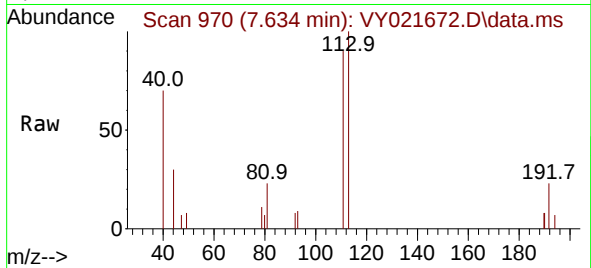




#35
Dibromofluoromethane
Concen: 64.004 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

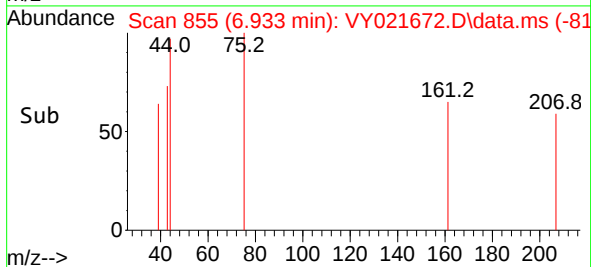
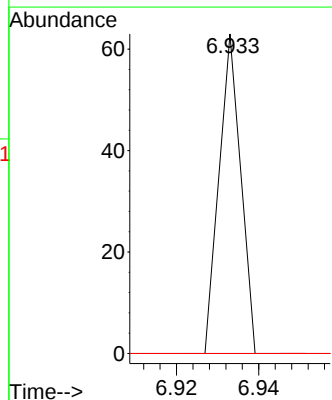
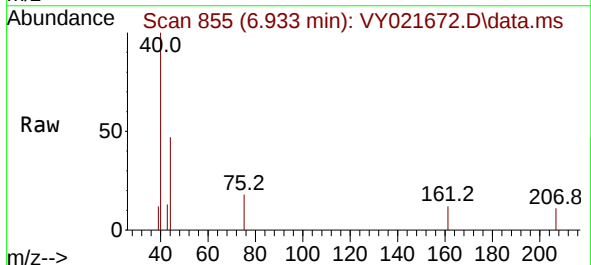
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

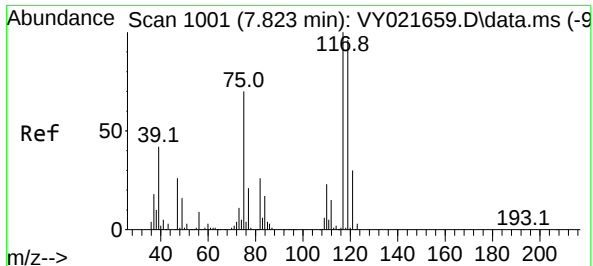
Tgt Ion:113 Resp: 1772
Ion Ratio Lower Upper
113 100
111 90.0 82.6 123.8
192 17.4 16.2 24.4



#37
Ethyl Acetate
Concen: 1.156 ug/l
RT: 6.933 min Scan# 855
Delta R.T. -0.055 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 43 Resp: 23
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 0.0 8.1 12.1#

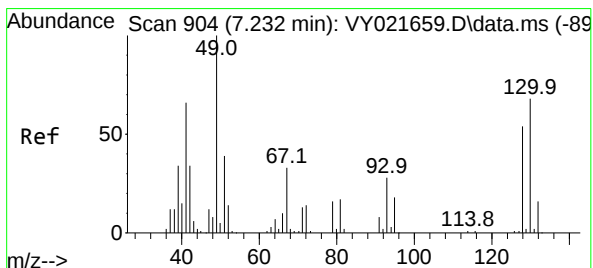
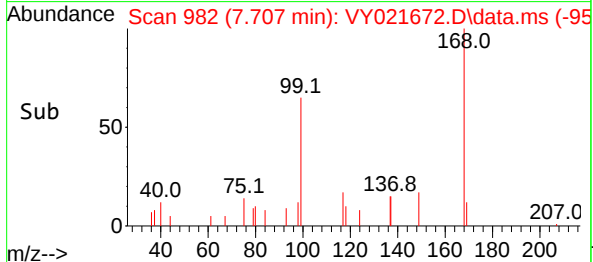
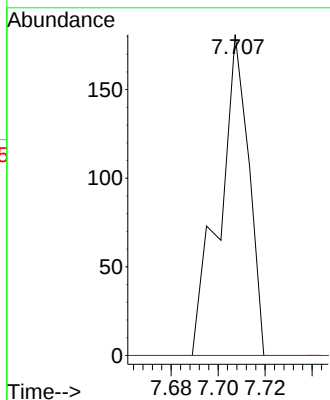
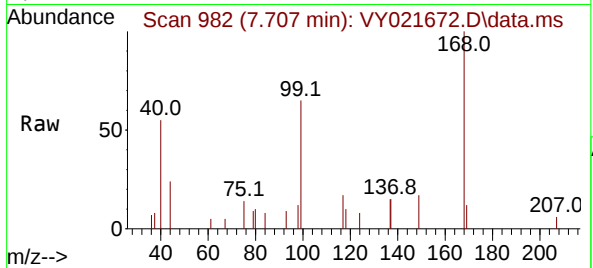




#38
Carbon Tetrachloride
Concen: 3.230 ug/l
RT: 7.707 min Scan# 911
Delta R.T. -0.116 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

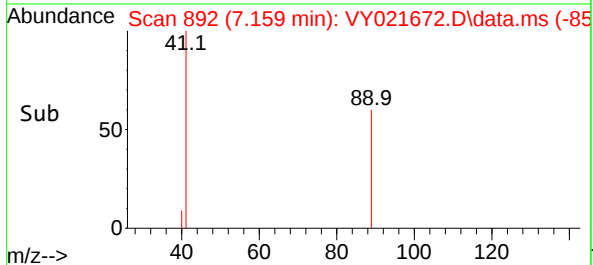
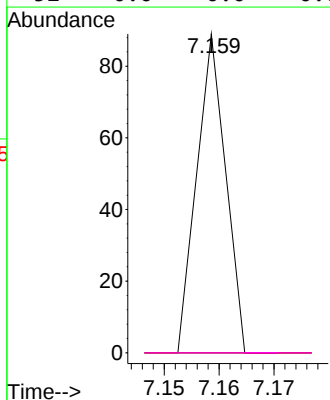
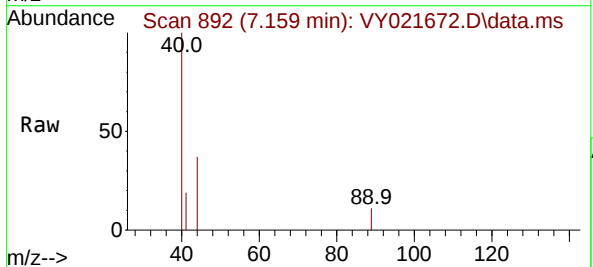
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

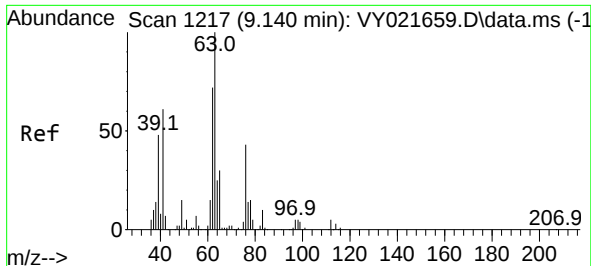
Tgt Ion:117 Resp: 156
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.4#
121 0.0 24.2 36.4#



#41
Methacrylonitrile
Concen: 3.122 ug/l
RT: 7.159 min Scan# 892
Delta R.T. -0.073 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 41 Resp: 33
Ion Ratio Lower Upper
41 100
39 0.0 0.0 0.0
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#45

1,2-Dichloropropane

Concen: 1.405 ug/l

RT: 9.006 min Scan# 1195

Delta R.T. -0.134 min

Lab File: VY021672.D

Acq: 27 Mar 2025 17:21

Instrument :

MSVOA_Y

ClientSampleId :

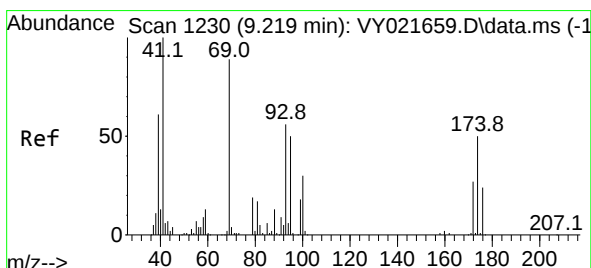
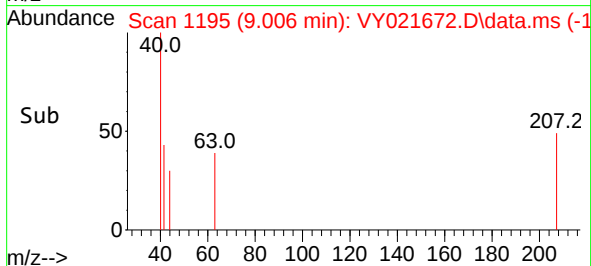
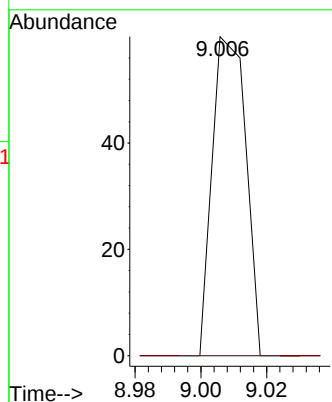
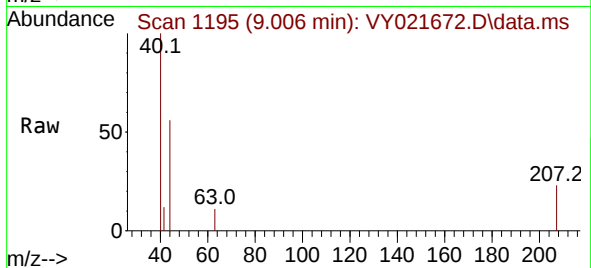
STOCK-PILE-BIN2

Tgt Ion: 63 Resp: 42

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



#48

Methyl methacrylate

Concen: 2.657 ug/l

RT: 9.219 min Scan# 1230

Delta R.T. 0.000 min

Lab File: VY021672.D

Acq: 27 Mar 2025 17:21

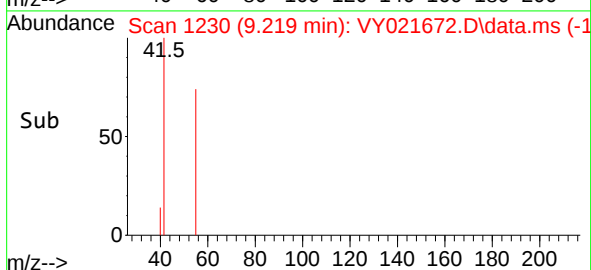
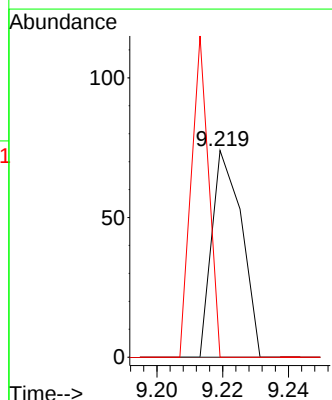
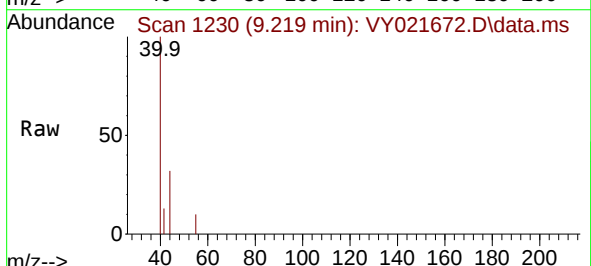
Tgt Ion: 41 Resp: 46

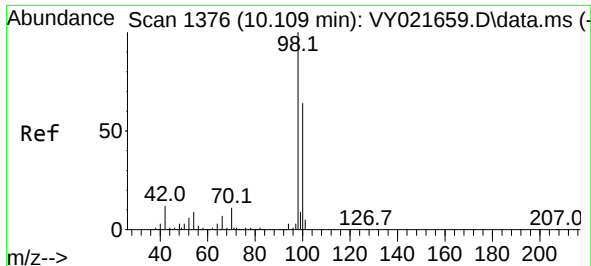
Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.8#

39 91.3 47.2 70.8#

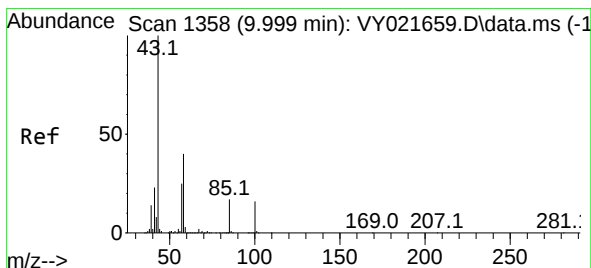
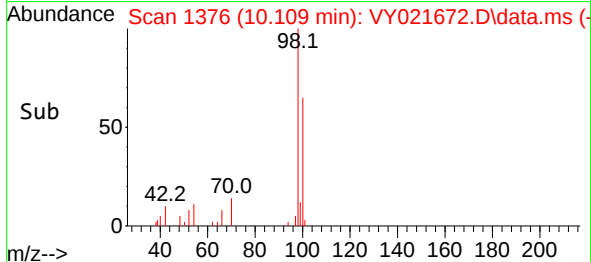
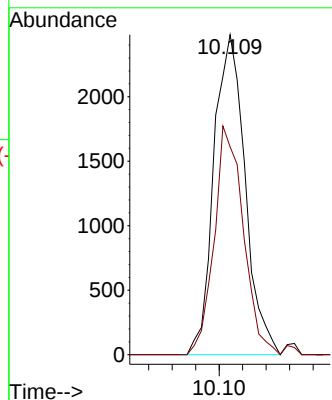
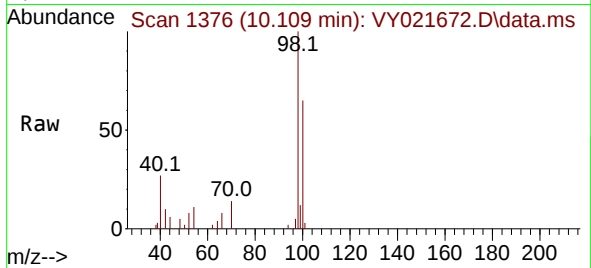




#50
Toluene-d8
Concen: 43.465 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

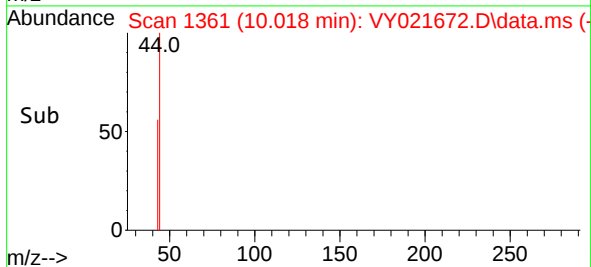
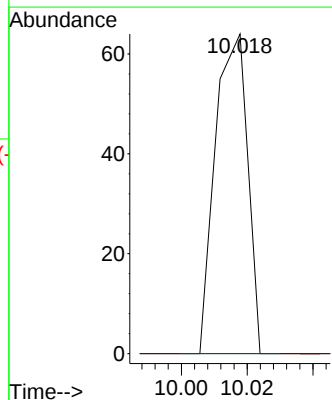
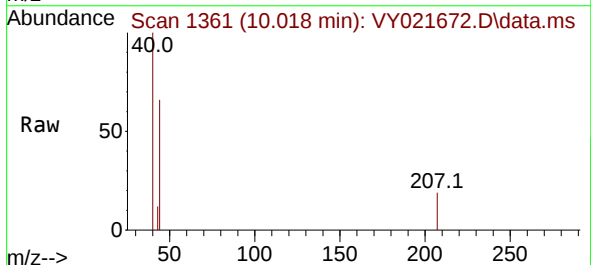
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

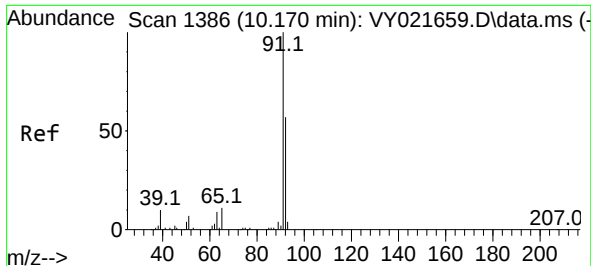
Tgt Ion: 98 Resp: 4578
Ion Ratio Lower Upper
98 100
100 66.6 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.242 ug/l
RT: 10.018 min Scan# 1361
Delta R.T. 0.018 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 43 Resp: 44
Ion Ratio Lower Upper
43 100
58 0.0 31.5 47.3#

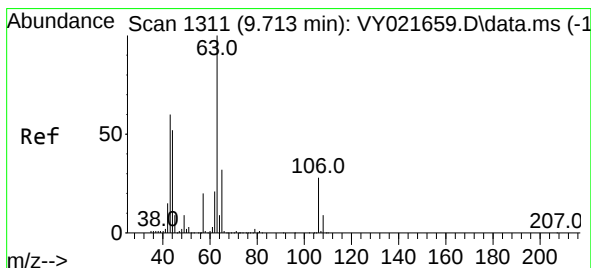
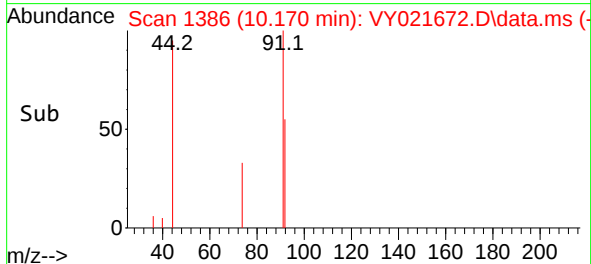
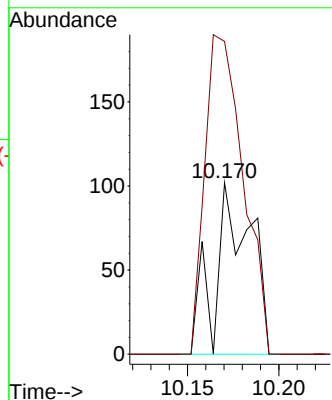
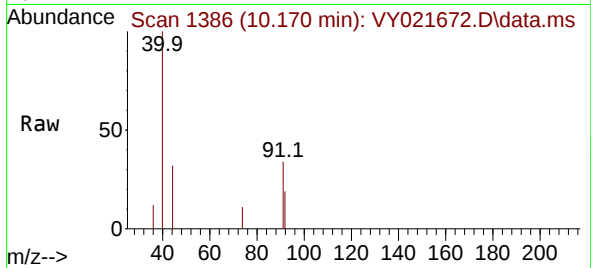




#52
Toluene
Concen: 1.777 ug/l
RT: 10.170 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

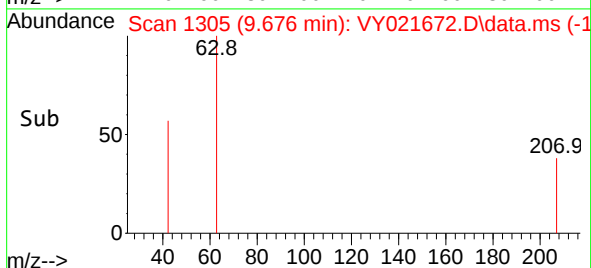
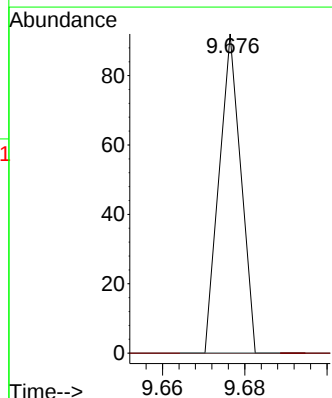
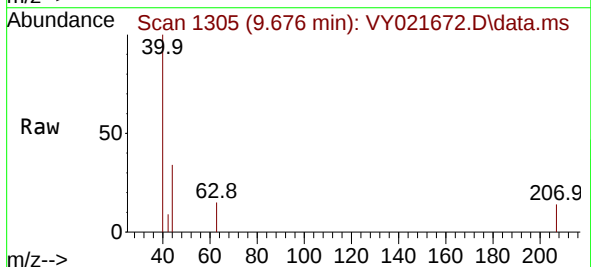
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

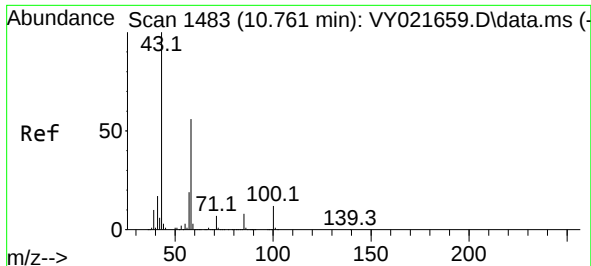
Tgt Ion: 92 Resp: 140
Ion Ratio Lower Upper
92 100
91 198.6 138.6 207.8



#58
2-Chloroethyl Vinyl ether
Concen: 2.462 ug/l
RT: 9.676 min Scan# 1305
Delta R.T. -0.036 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 63 Resp: 34
Ion Ratio Lower Upper
63 100
106 0.0 22.4 33.6#

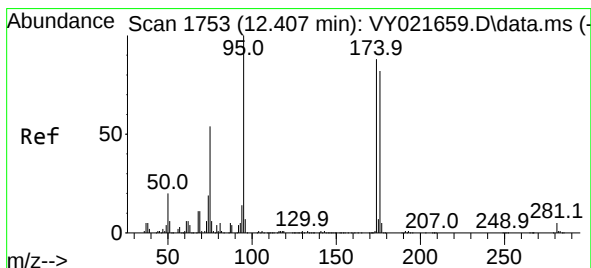
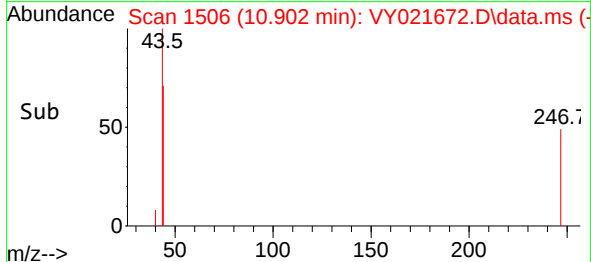
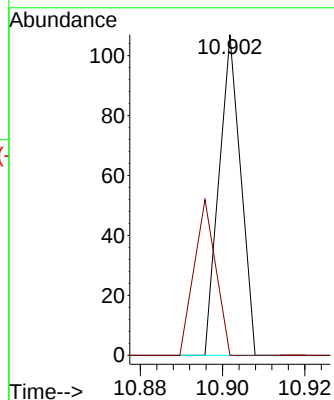
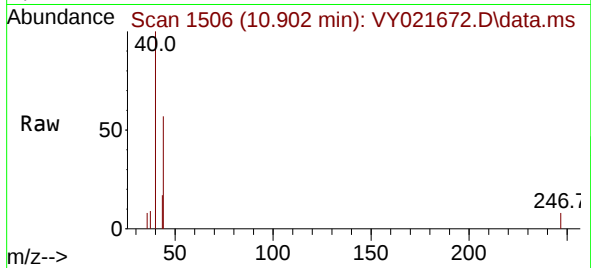




#59
2-Hexanone
Concen: 2.984 ug/l
RT: 10.902 min Scan# 11
Delta R.T. 0.140 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

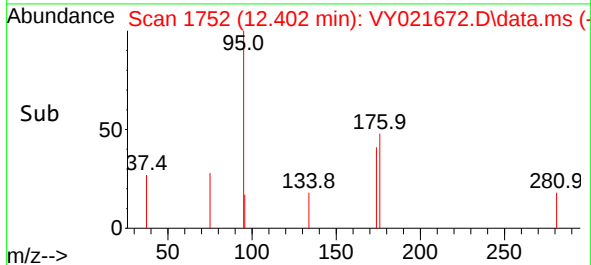
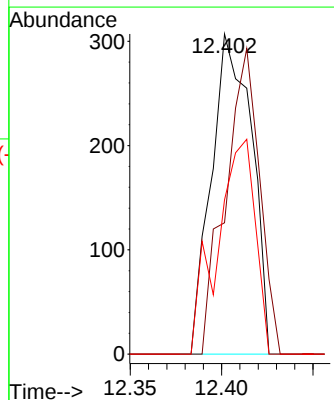
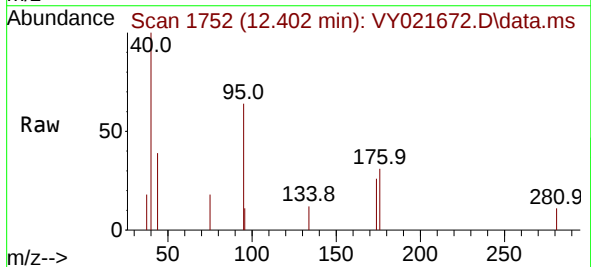
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

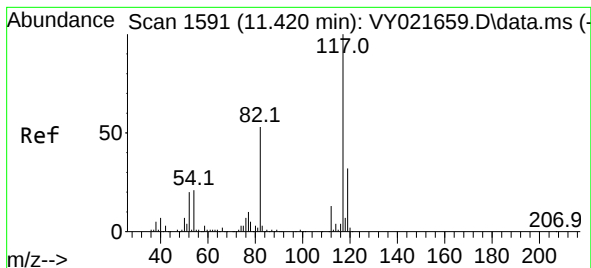
Tgt Ion: 43 Resp: 39
Ion Ratio Lower Upper
43 100
58 48.7 27.2 81.5



#62
4-Bromofluorobenzene
Concen: 13.193 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 95 Resp: 470
Ion Ratio Lower Upper
95 100
174 80.6 0.0 170.8
176 63.4 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021672.D

Acq: 27 Mar 2025 17:21

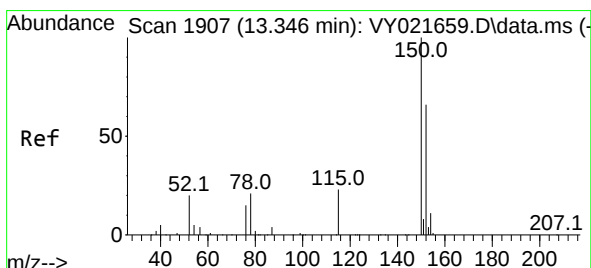
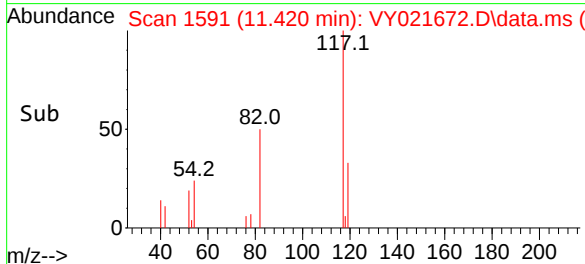
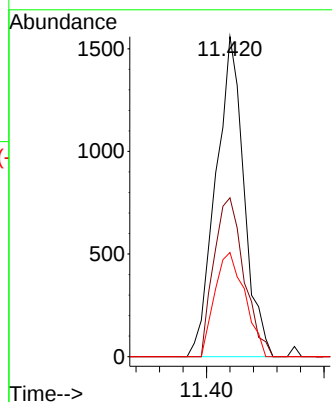
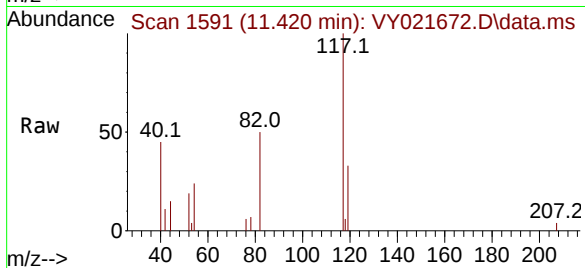
Instrument :

MSVOA_Y

ClientSampleId :

STOCK-PILE-BIN2

Tgt Ion:117	Resp:	2599
Ion	Ratio	Lower Upper
117	100	
82	49.6	42.8 64.2
119	32.5	25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

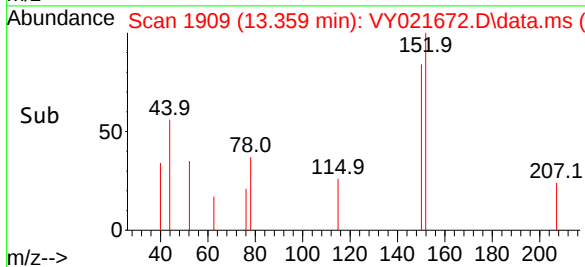
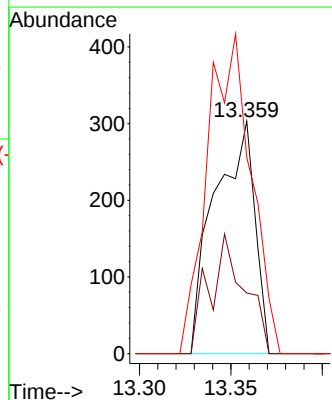
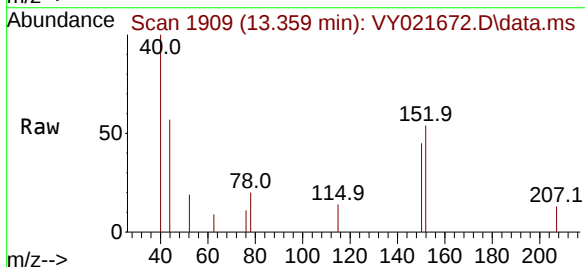
RT: 13.359 min Scan# 1909

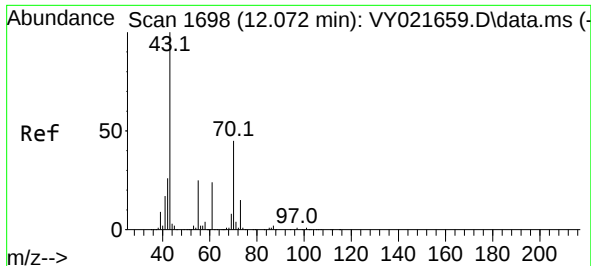
Delta R.T. 0.012 min

Lab File: VY021672.D

Acq: 27 Mar 2025 17:21

Tgt Ion:152	Resp:	463
Ion	Ratio	Lower Upper
152	100	
115	45.1	28.8 86.5
150	149.9	0.0 348.4

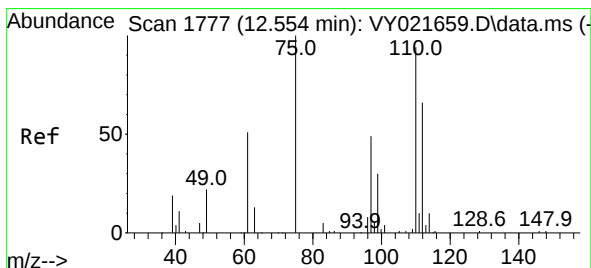
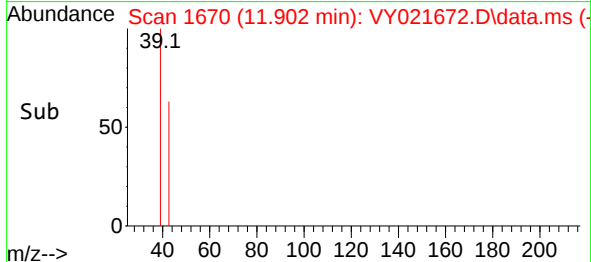
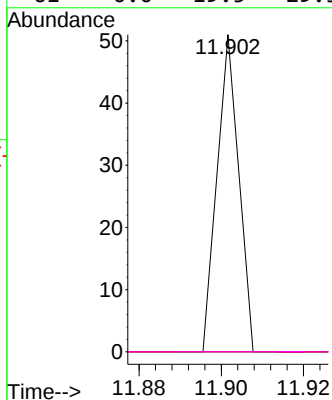
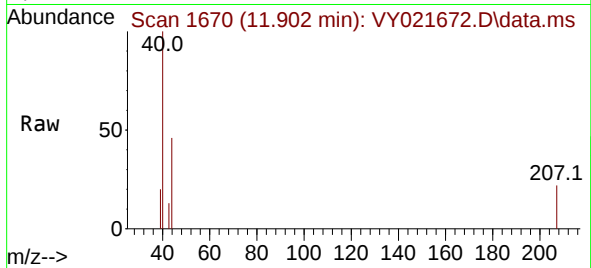




#74
N-amy1 acetate
Concen: 2.354 ug/l
RT: 11.902 min Scan# 1795
Delta R.T. -0.171 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

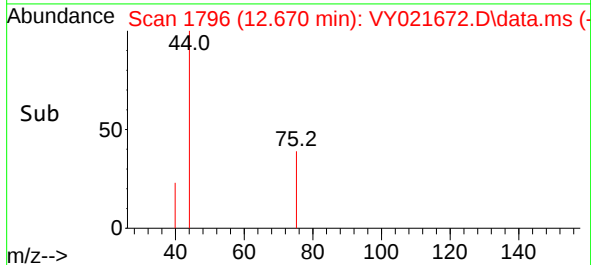
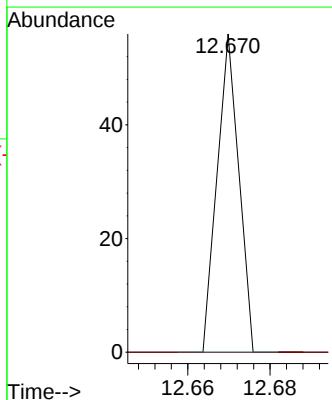
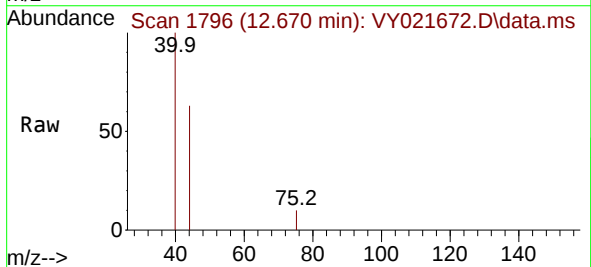
Instrument :
MSVOA_Y
ClientSampleId :
STOCK-PILE-BIN2

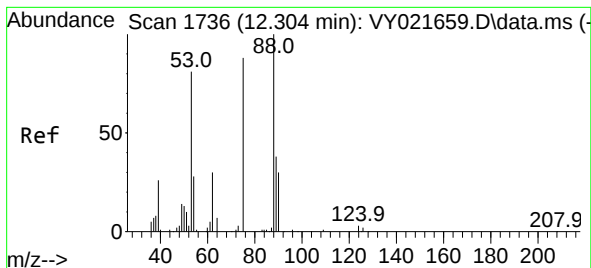
Tgt Ion: 43	Resp:	19
Ion Ratio	Lower	Upper
43 100		
70 0.0	34.7	52.1#
55 0.0	21.2	31.8#
61 0.0	19.5	29.3#



#76
1,2,3-Trichloropropane
Concen: 4.358 ug/l
RT: 12.670 min Scan# 1796
Delta R.T. 0.116 min
Lab File: VY021672.D
Acq: 27 Mar 2025 17:21

Tgt Ion: 75	Resp:	20	
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

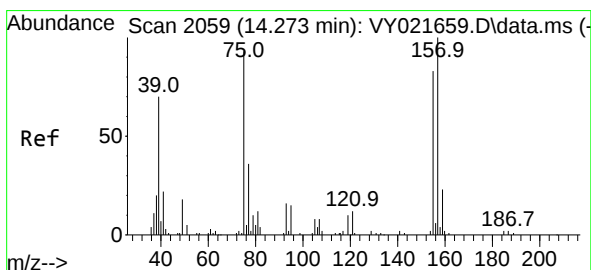
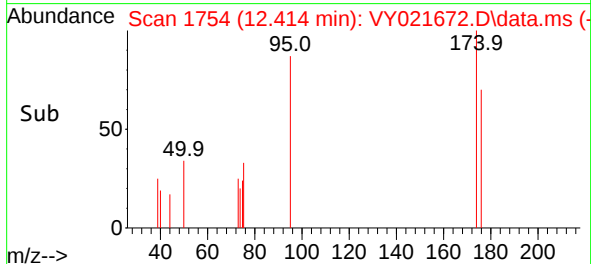
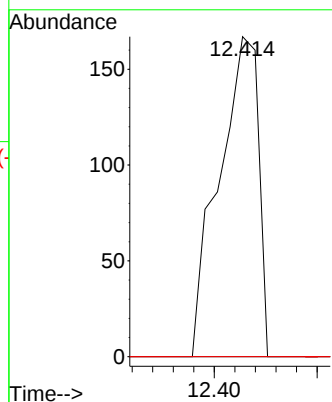
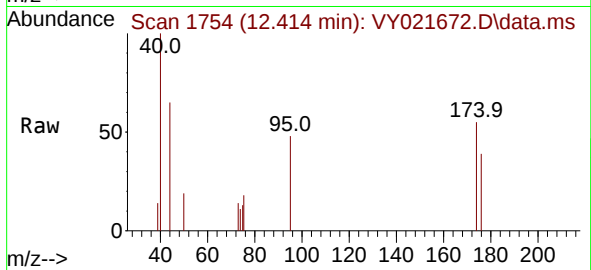




#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.957 ug/l
 RT: 12.414 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY021672.D
 Acq: 27 Mar 2025 17:21

Instrument :
 MSVOA_Y
 ClientSampleId :
 STOCK-PILE-BIN2

Tgt Ion: 75 Resp: 223
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.1 114.1#
 89 0.0 36.2 54.4#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 30.263 ug/l
 RT: 14.194 min Scan# 2046
 Delta R.T. -0.079 min
 Lab File: VY021672.D
 Acq: 27 Mar 2025 17:21

Tgt Ion: 75 Resp: 29
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.0 128.8#
 157 0.0 54.0 162.0#

