

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050923\
 Data File : VY013670.D
 Acq On : 09 May 2023 15:58
 Operator : KP/MD
 Sample : 02624-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WZ-3

Quant Time: May 10 05:38:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

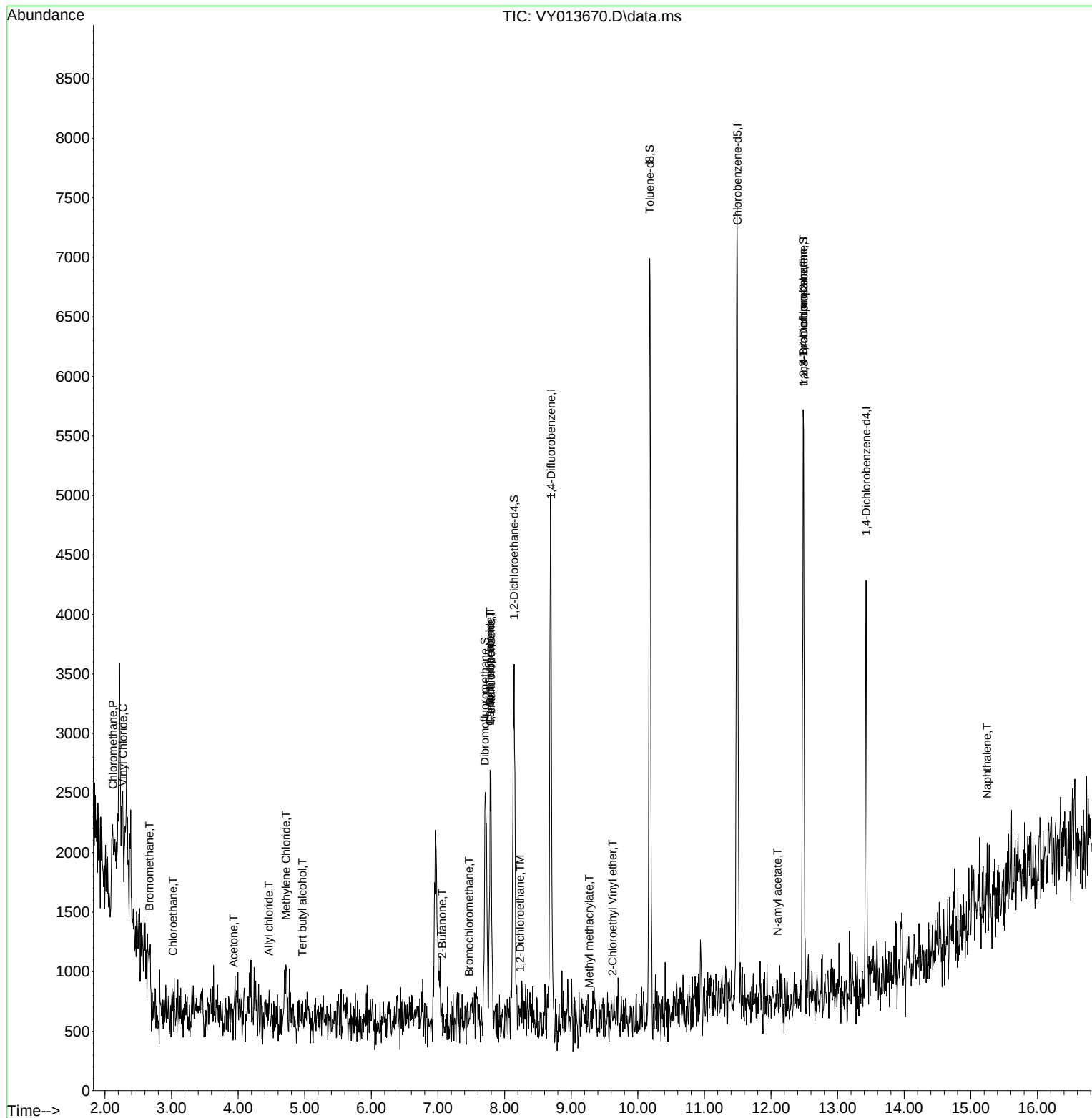
Internal Standards						
1) Pentafluorobenzene	7.795	168	2076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	3705	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	4061	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	928	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	2586	113.633	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 227.260%#	
35) Dibromofluoromethane	7.703	113	1681	72.137	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 144.280%	
50) Toluene-d8	10.179	98	4405	53.138	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 106.280%	
62) 4-Bromofluorobenzene	12.483	95	1272	45.515	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 91.040%	
Target Compounds						Qvalue
3) Chloromethane	2.119	50	198	7.484	ug/l #	42
4) Vinyl Chloride	2.272	62	42	1.594	ug/l #	43
5) Bromomethane	2.668	94	77	3.668	ug/l #	76
6) Chloroethane	3.021	64	54	2.967	ug/l #	44
11) Tert butyl alcohol	4.966	59	20	8.432	ug/l #	89
14) Allyl chloride	4.460	41	62	1.549	ug/l #	46
16) Acetone	3.930	43	71	7.922	ug/l #	43
20) Methylene Chloride	4.716	84	284	2.417	ug/l #	76
25) 2-Butanone	7.063	43	20	1.760	ug/l #	47
28) Bromochloromethane	7.466	49	20	1.292	ug/l #	7
36) 1,1-Dichloropropene	7.783	75	241	6.232	ug/l #	40
38) Carbon Tetrachloride	7.783	117	84	2.072	ug/l #	11
42) 1,2-Dichloroethane	8.234	62	38	1.067	ug/l #	75
48) Methyl methacrylate	9.270	41	26	1.152	ug/l #	12
58) 2-Chloroethyl Vinyl ether	9.624	63	27	2.299	ug/l #	45
74) N-amyl acetate	12.099	43	109	4.364	ug/l #	43
76) 1,2,3-Trichloropropane	12.489	75	699	55.852	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.489	75	699	114.249	ug/l #	12
95) Naphthalene	15.245	128	64	1.691	ug/l #	69

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

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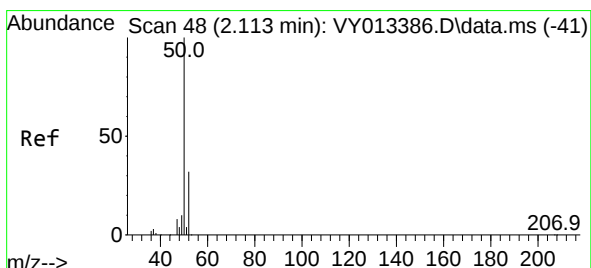
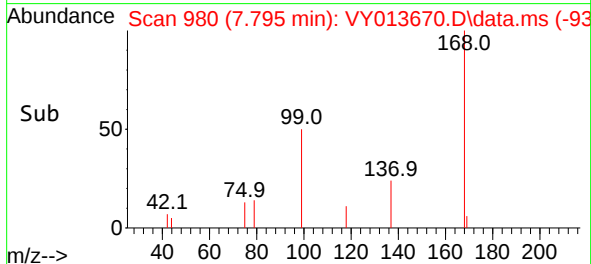
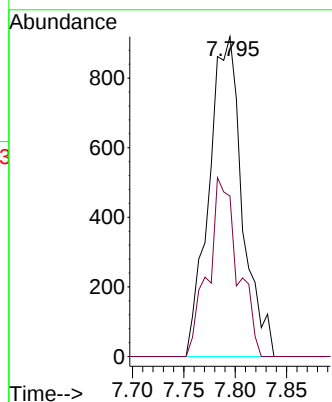
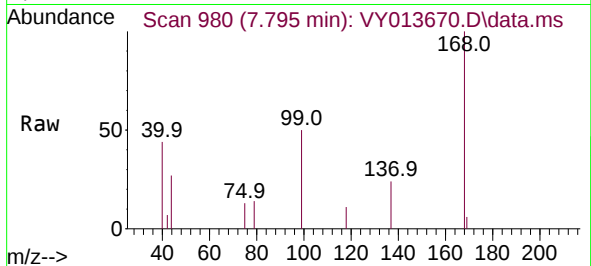




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

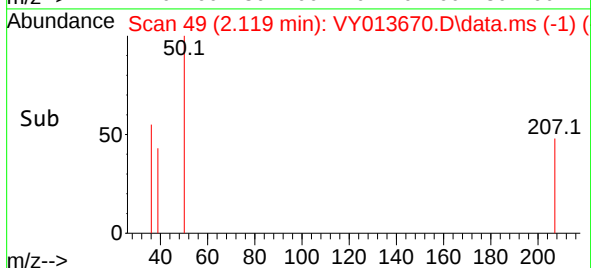
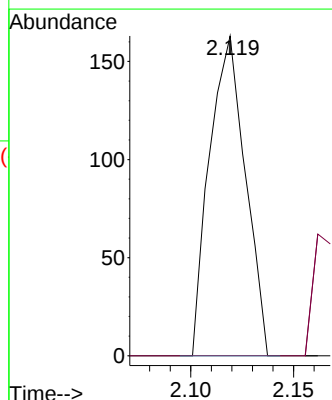
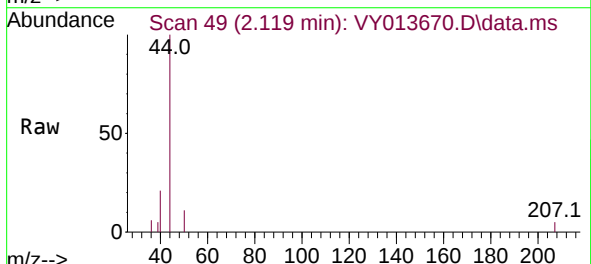
Instrument :
MSVOA_Y
ClientSampleId :
WZ-3

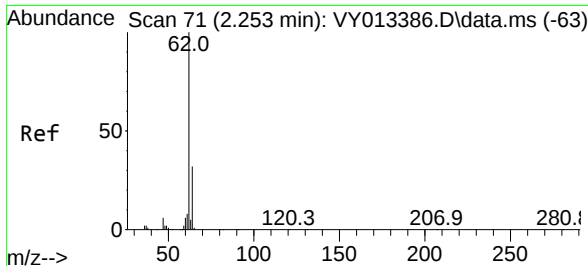
Tgt Ion:168 Resp: 2076
Ion Ratio Lower Upper
168 100
99 50.2 41.8 62.6



#3
Chloromethane
Concen: 7.484 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

Tgt Ion: 50 Resp: 198
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

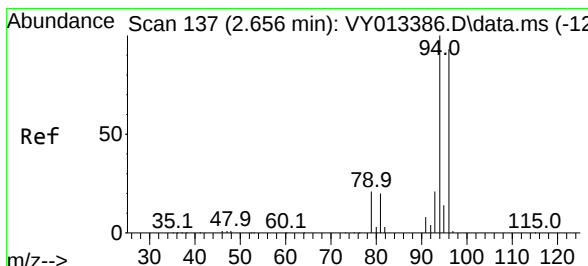
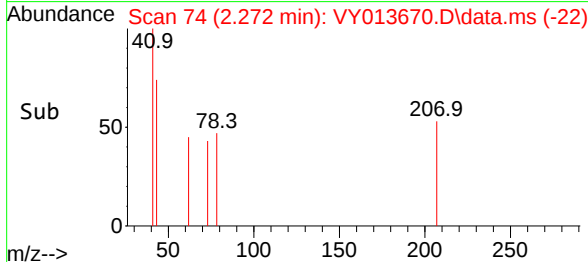
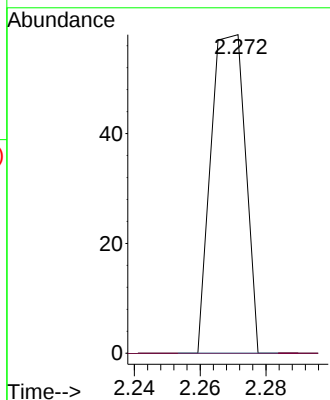
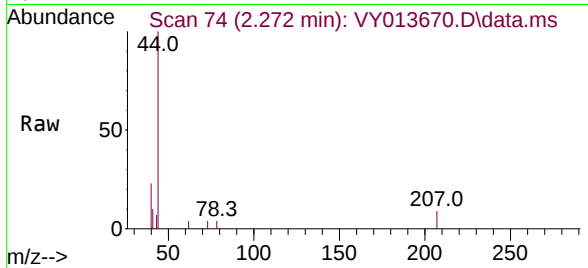




#4
 Vinyl Chloride
 Concen: 1.594 ug/l
 RT: 2.272 min Scan# 74
 Delta R.T. 0.019 min
 Lab File: VY013670.D
 Acq: 09 May 2023 15:58

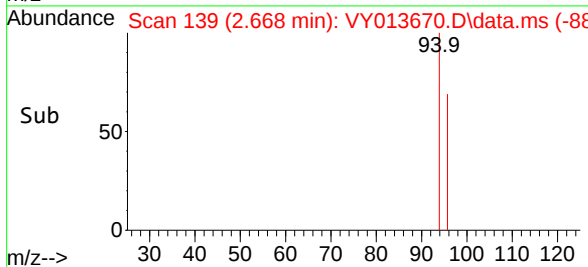
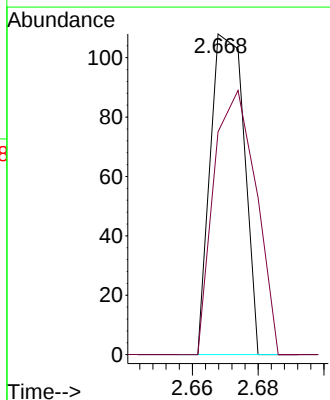
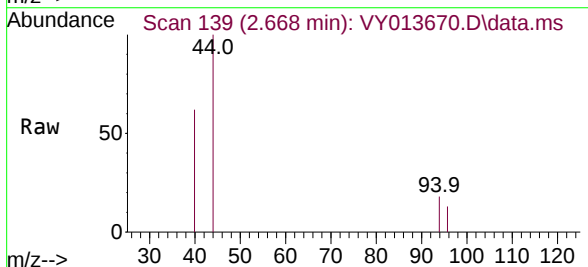
Instrument :
 MSVOA_Y
 ClientSampleId :
 WZ-3

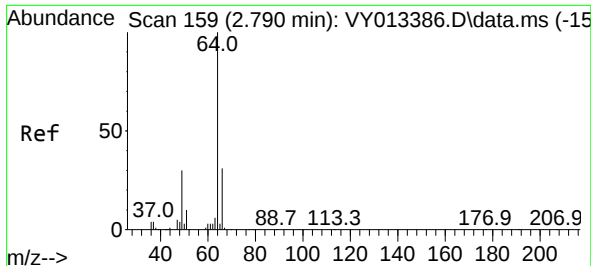
Tgt Ion: 62 Resp: 42
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.4 38.0#



#5
 Bromomethane
 Concen: 3.668 ug/l
 RT: 2.668 min Scan# 139
 Delta R.T. 0.012 min
 Lab File: VY013670.D
 Acq: 09 May 2023 15:58

Tgt Ion: 94 Resp: 77
 Ion Ratio Lower Upper
 94 100
 96 69.4 74.2 111.2#

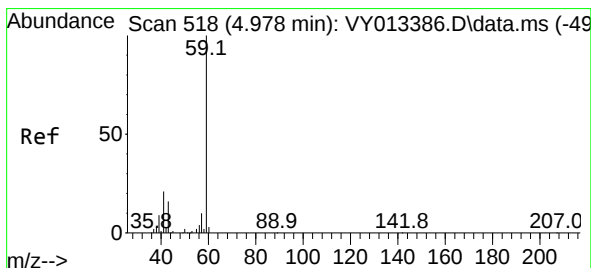
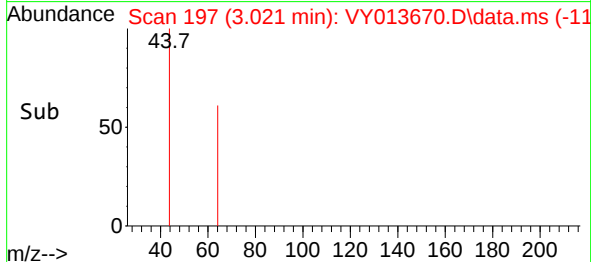
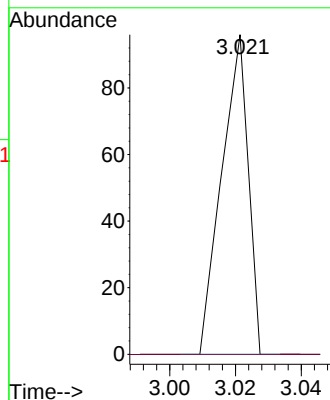
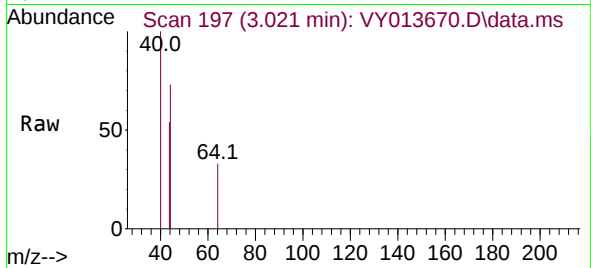




#6
Chloroethane
Concen: 2.967 ug/l
RT: 3.021 min Scan# 159
Delta R.T. 0.231 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

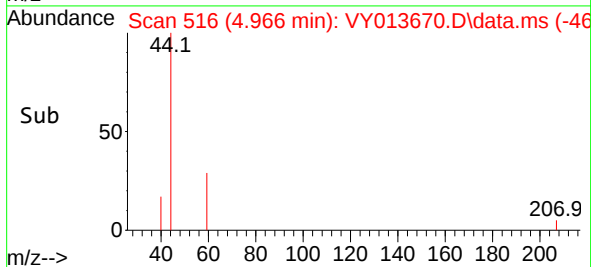
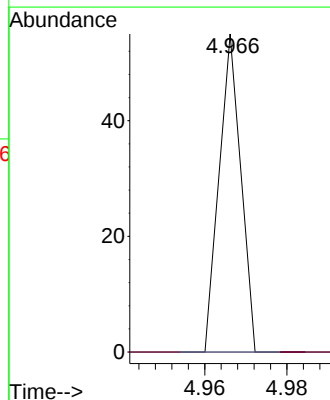
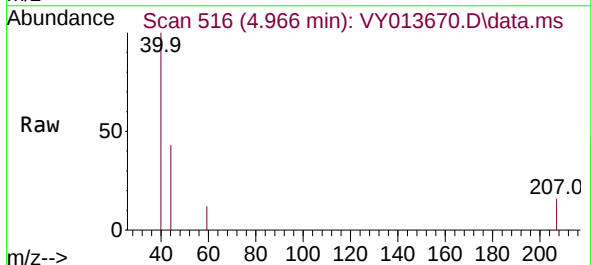
Instrument :
MSVOA_Y
ClientSampleId :
WZ-3

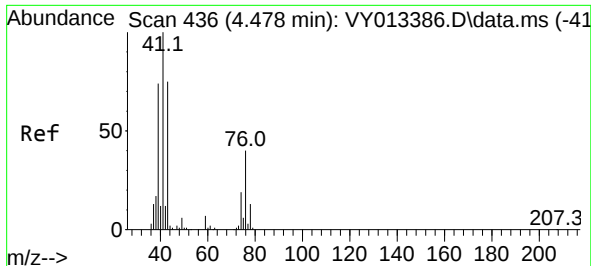
Tgt Ion: 64 Resp: 54
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#



#11
Tert butyl alcohol
Concen: 8.432 ug/l
RT: 4.966 min Scan# 516
Delta R.T. -0.012 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

Tgt Ion: 59 Resp: 20
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

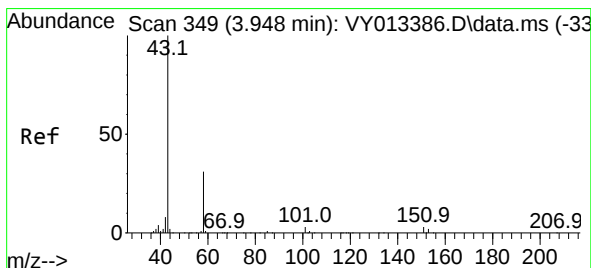
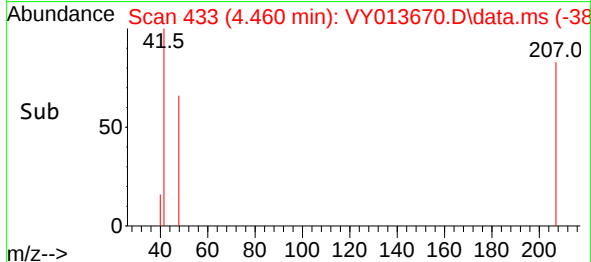
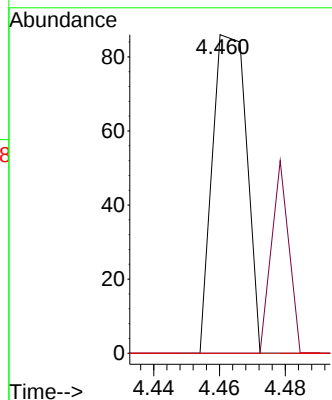
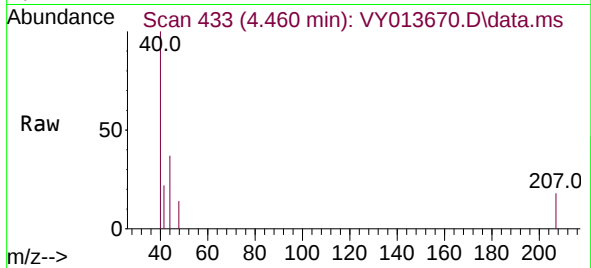




#14
 Allyl chloride
 Concen: 1.549 ug/l
 RT: 4.460 min Scan# 41
 Delta R.T. -0.018 min
 Lab File: VY013670.D
 Acq: 09 May 2023 15:58

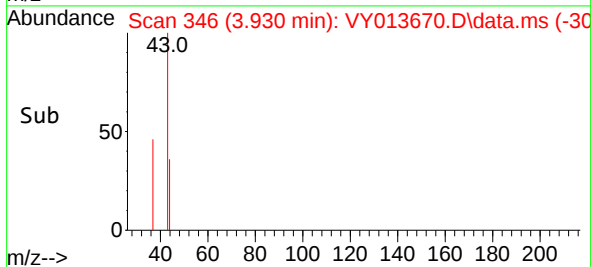
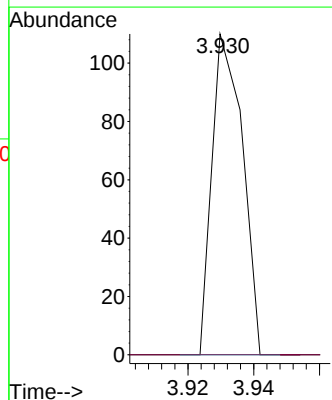
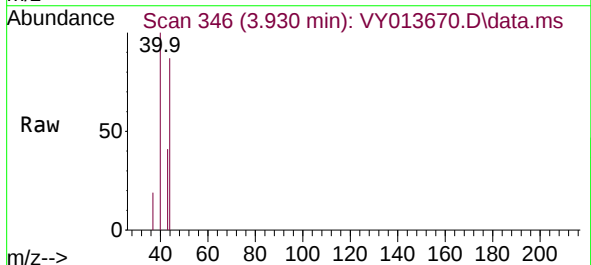
Instrument :
 MSVOA_Y
 ClientSampleId :
 WZ-3

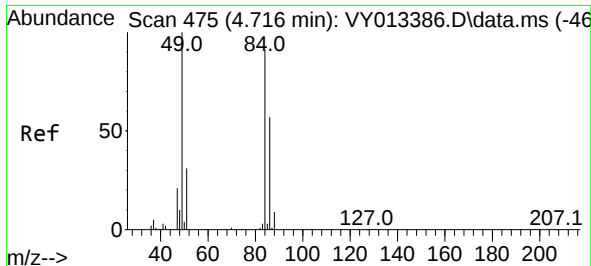
Tgt Ion: 41 Resp: 62
 Ion Ratio Lower Upper
 41 100
 39 30.6 56.6 85.0#
 76 0.0 30.5 45.7#



#16
 Acetone
 Concen: 7.922 ug/l
 RT: 3.930 min Scan# 346
 Delta R.T. -0.018 min
 Lab File: VY013670.D
 Acq: 09 May 2023 15:58

Tgt Ion: 43 Resp: 71
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.4 38.0#

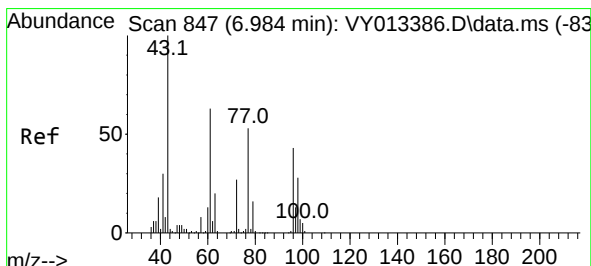
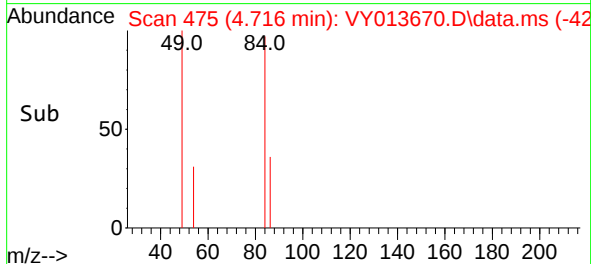
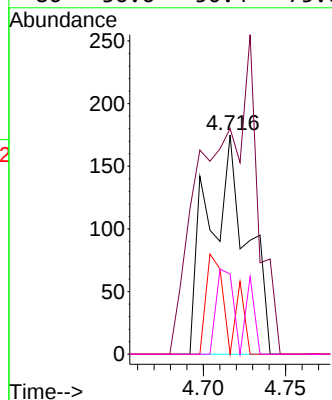
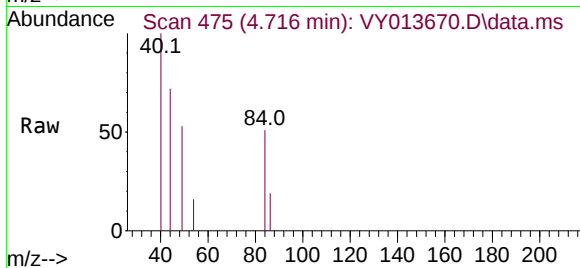




#20
Methylene Chloride
Concen: 2.417 ug/l
RT: 4.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

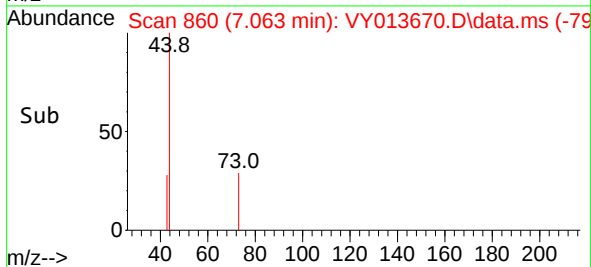
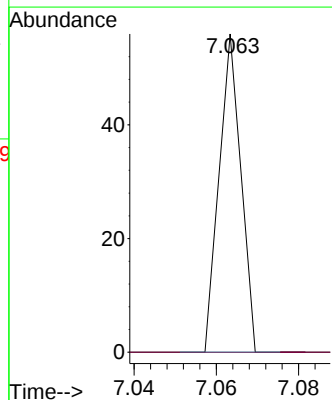
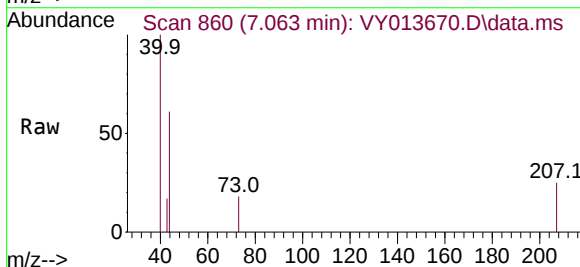
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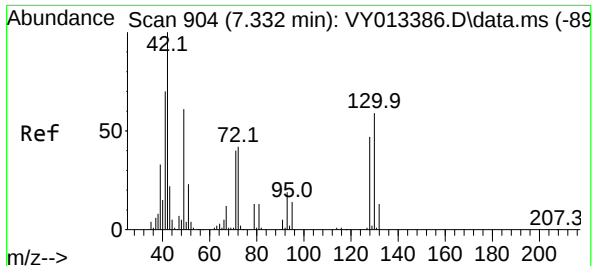
Tgt Ion:	84	Resp:	284
Ion	Ratio	Lower	Upper
84	100		
49	102.9	88.0	132.0
51	0.0	27.4	41.0#
86	36.6	50.4	75.6#



#25
2-Butanone
Concen: 1.760 ug/l
RT: 7.063 min Scan# 860
Delta R.T. 0.079 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

Tgt Ion:	43	Resp:	20
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.9	32.9#

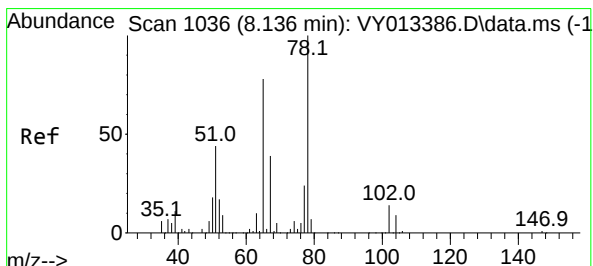
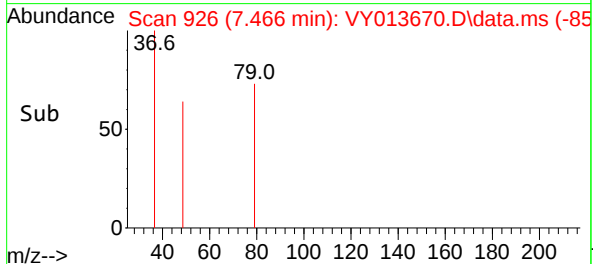
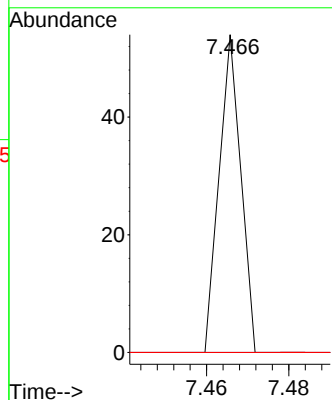
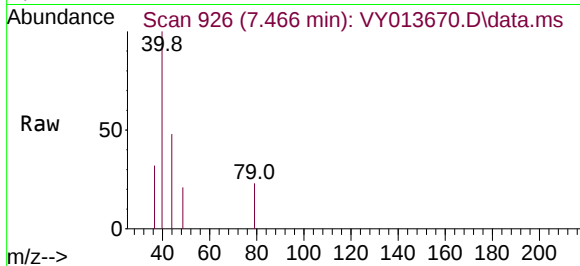




#28
Bromochloromethane
Concen: 1.292 ug/l
RT: 7.466 min Scan# 91
Delta R.T. 0.134 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

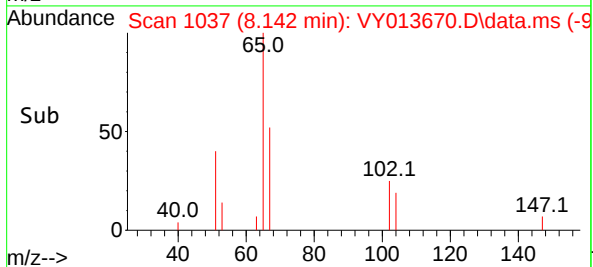
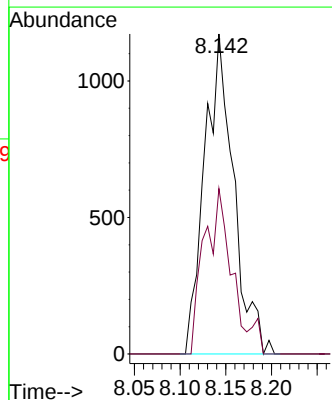
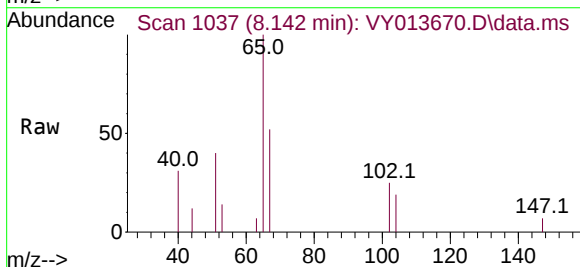
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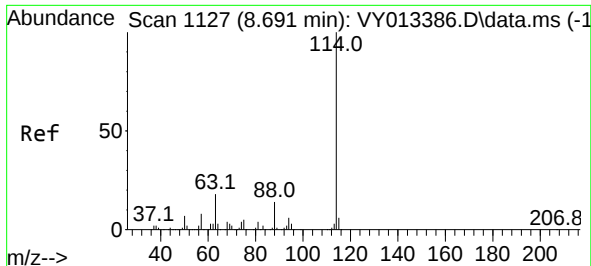
Tgt Ion: 49 Resp: 20
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.2
130 0.0 72.1 108.1#



#33
1,2-Dichloroethane-d4
Concen: 113.633 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

Tgt Ion: 65 Resp: 2586
Ion Ratio Lower Upper
65 100
67 50.5 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY013670.D

Acq: 09 May 2023 15:58

Instrument :

MSVOA_Y

ClientSampleId :

WZ-3

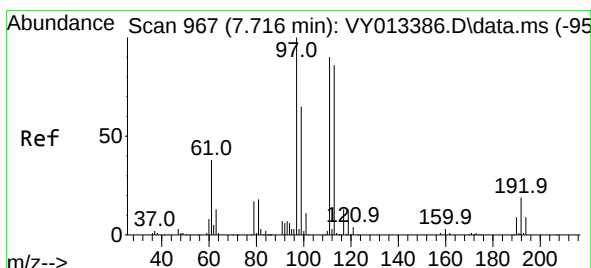
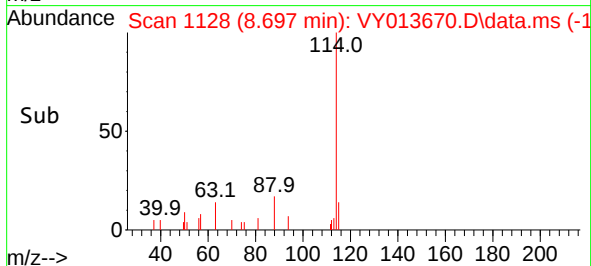
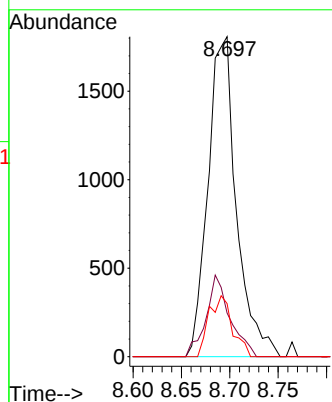
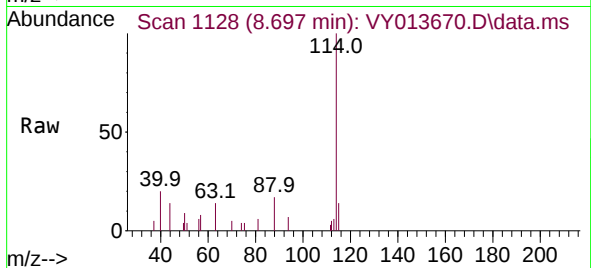
Tgt Ion:114 Resp: 3705

Ion Ratio Lower Upper

114 100

63 13.7 0.0 36.6

88 16.6 0.0 28.8



#35

Dibromofluoromethane

Concen: 72.137 ug/l

RT: 7.703 min Scan# 965

Delta R.T. -0.013 min

Lab File: VY013670.D

Acq: 09 May 2023 15:58

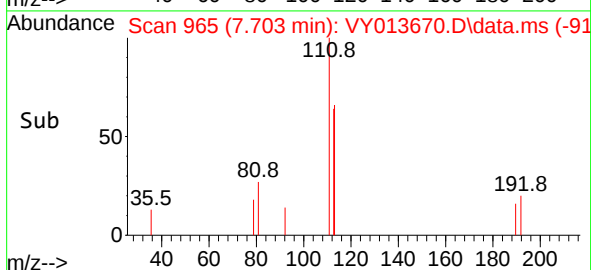
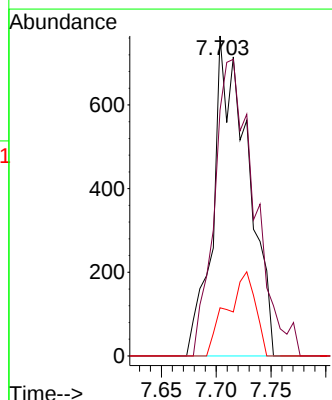
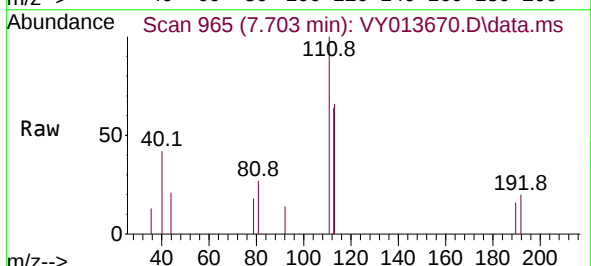
Tgt Ion:113 Resp: 1681

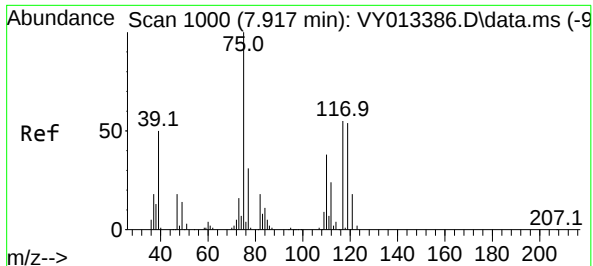
Ion Ratio Lower Upper

113 100

111 106.5 82.2 123.2

192 0.0 16.7 25.1#





#36

1,1-Dichloropropene

Concen: 6.232 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY013670.D

Acq: 09 May 2023 15:58

Instrument :

MSVOA_Y

ClientSampleId :

WZ-3

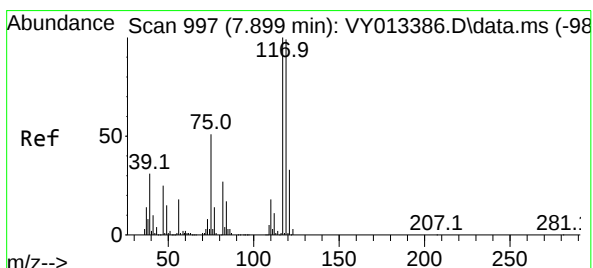
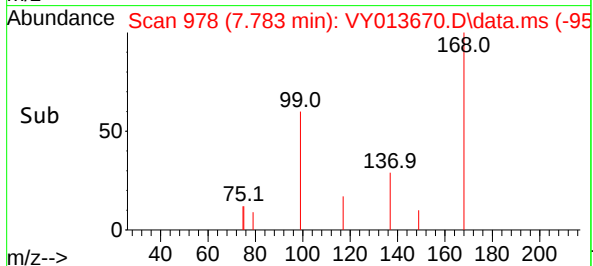
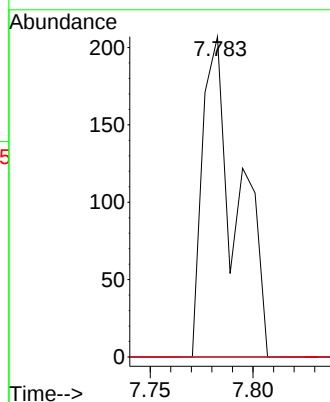
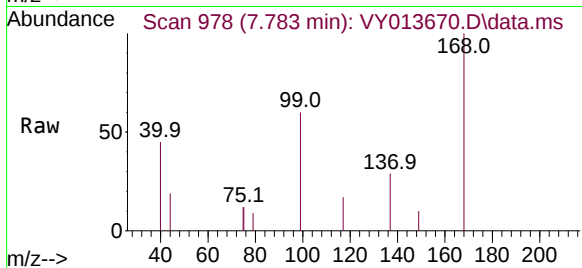
Tgt Ion: 75 Resp: 241

Ion Ratio Lower Upper

75 100

110 0.0 18.7 56.1#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 2.072 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY013670.D

Acq: 09 May 2023 15:58

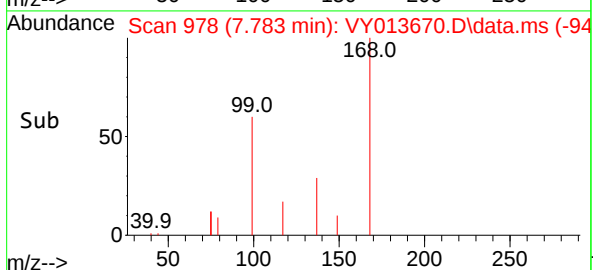
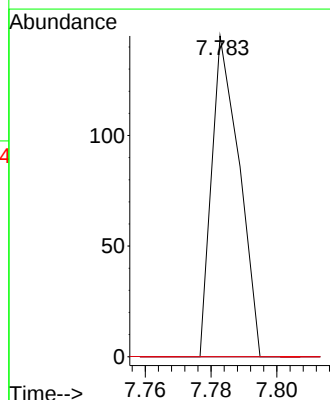
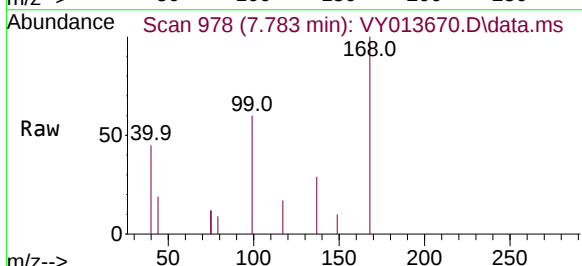
Tgt Ion: 117 Resp: 84

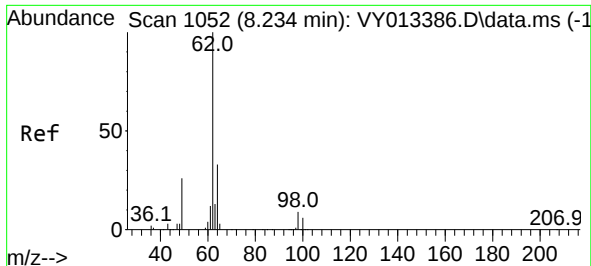
Ion Ratio Lower Upper

117 100

119 0.0 79.0 118.6#

121 0.0 26.6 40.0#





#42

1,2-Dichloroethane

Concen: 1.067 ug/l

RT: 8.234 min Scan# 1052

Delta R.T. -0.000 min

Lab File: VY013670.D

Acq: 09 May 2023 15:58

Instrument :

MSVOA_Y

ClientSampleId :

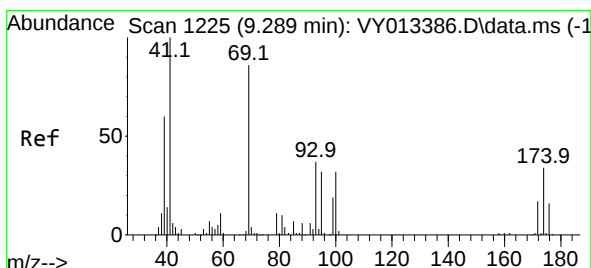
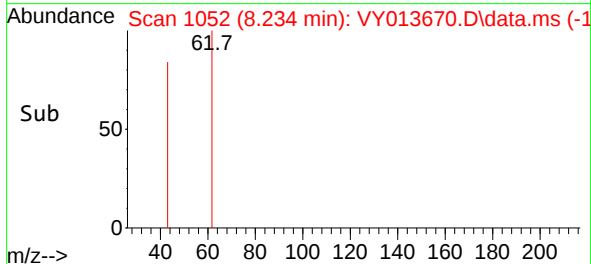
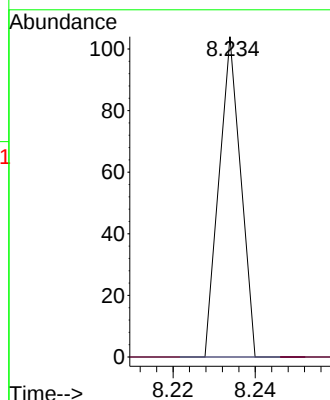
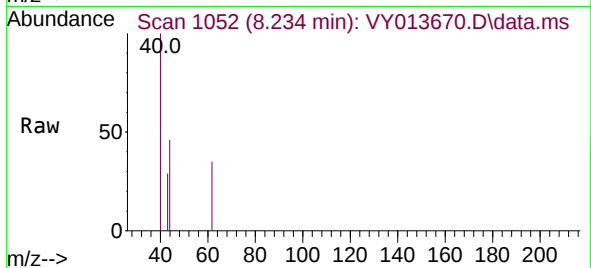
WZ-3

Tgt Ion: 62 Resp: 38

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.8



#48

Methyl methacrylate

Concen: 1.152 ug/l

RT: 9.270 min Scan# 1222

Delta R.T. -0.019 min

Lab File: VY013670.D

Acq: 09 May 2023 15:58

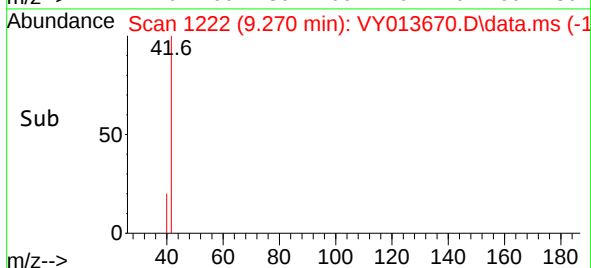
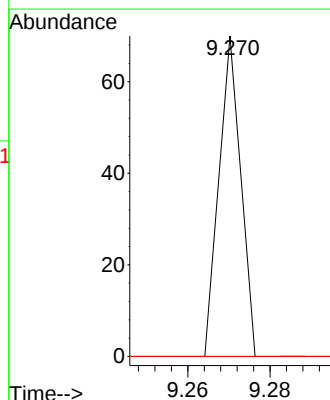
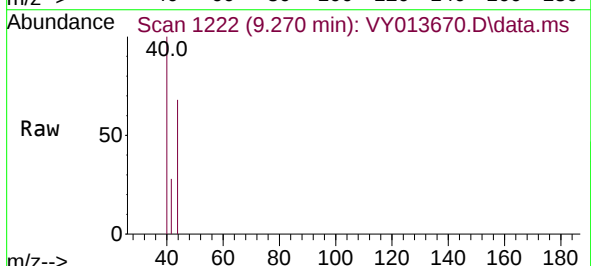
Tgt Ion: 41 Resp: 26

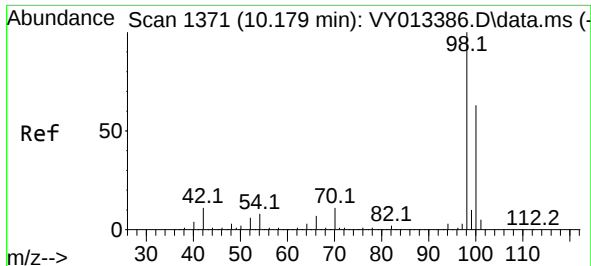
Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

39 0.0 47.9 71.9#

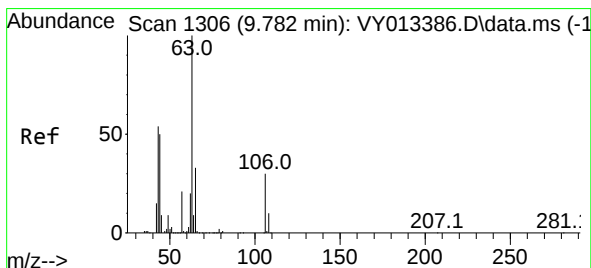
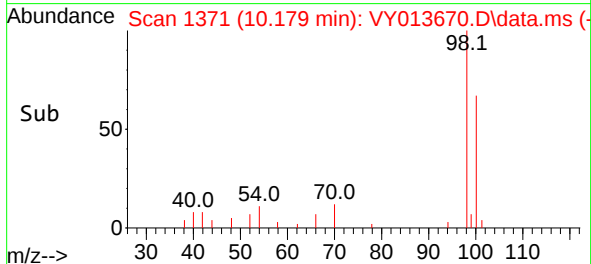
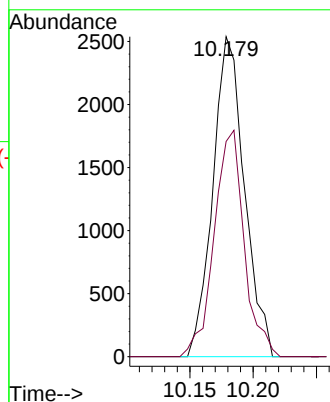
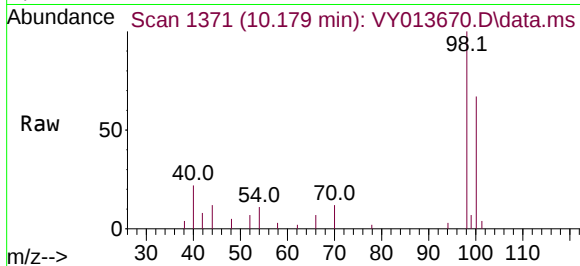




#50
Toluene-d8
Concen: 53.138 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

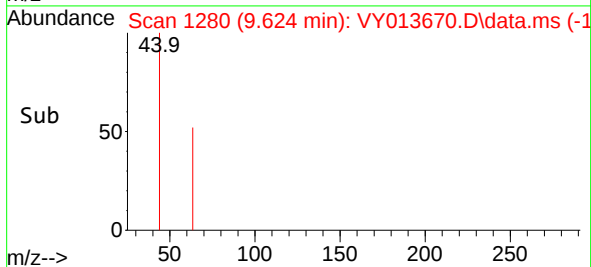
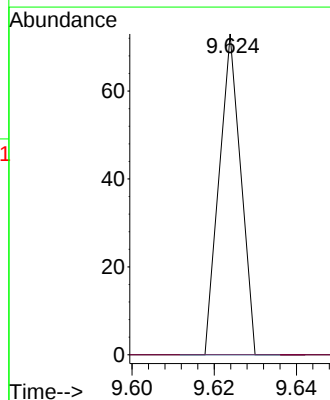
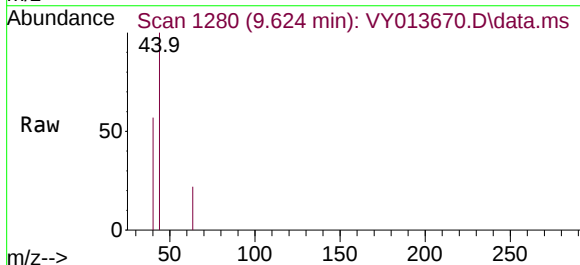
Instrument :
MSVOA_Y
ClientSampleId :
WZ-3

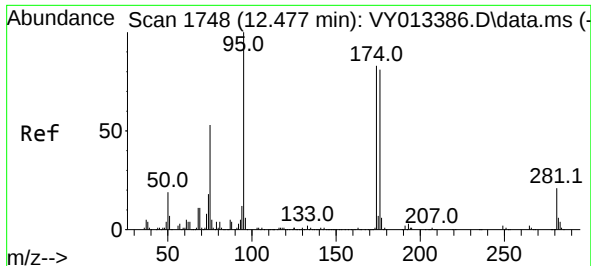
Tgt Ion: 98 Resp: 4405
Ion Ratio Lower Upper
98 100
100 67.1 50.5 75.7



#58
2-Chloroethyl Vinyl ether
Concen: 2.299 ug/l
RT: 9.624 min Scan# 1280
Delta R.T. -0.158 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

Tgt Ion: 63 Resp: 27
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#





#62

4-Bromofluorobenzene

Concen: 45.515 ug/l

RT: 12.483 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY013670.D

Acq: 09 May 2023 15:58

Instrument :

MSVOA_Y

ClientSampleId :

WZ-3

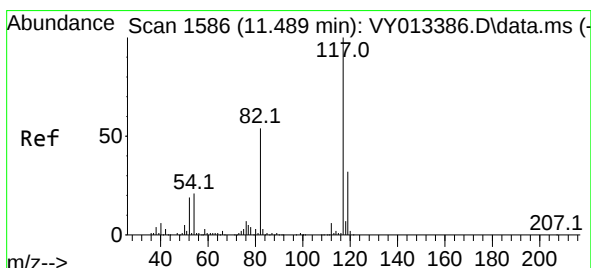
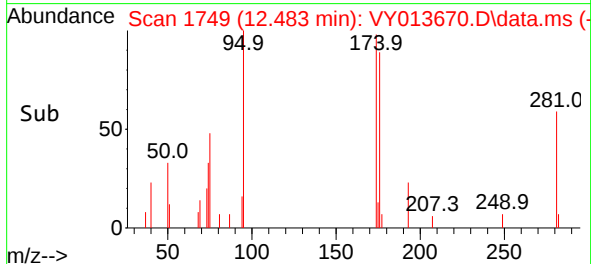
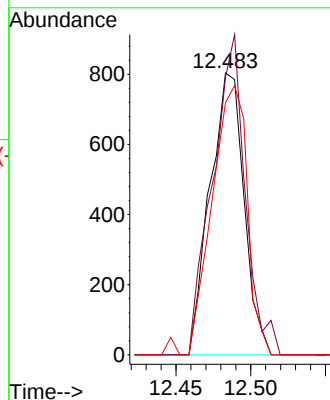
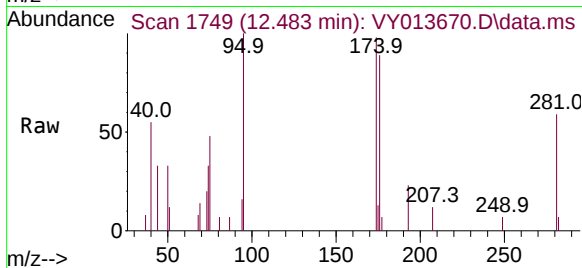
Tgt Ion: 95 Resp: 1272

Ion Ratio Lower Upper

95 100

174 109.4 0.0 182.0

176 99.8 0.0 175.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.495 min Scan# 1587

Delta R.T. 0.006 min

Lab File: VY013670.D

Acq: 09 May 2023 15:58

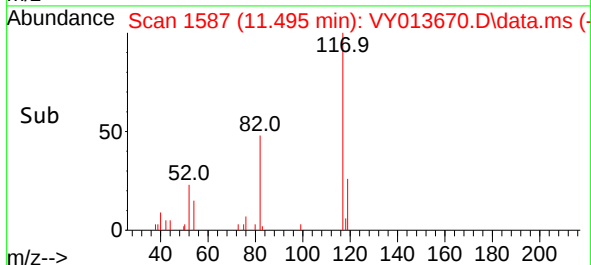
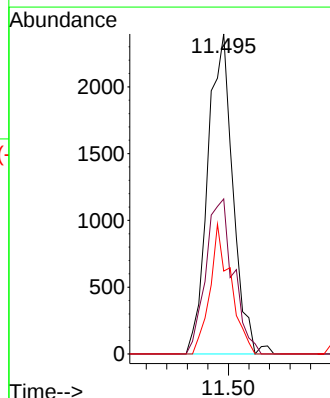
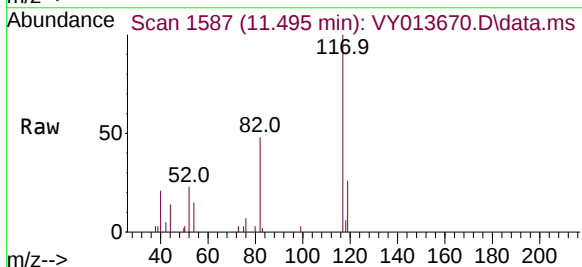
Tgt Ion: 117 Resp: 4061

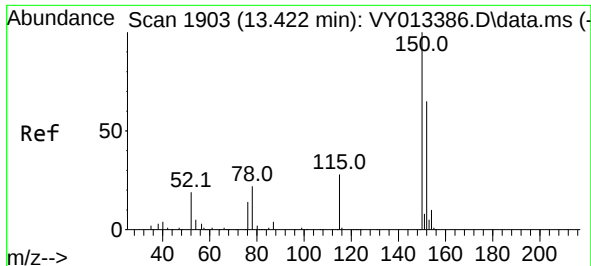
Ion Ratio Lower Upper

117 100

82 48.5 43.0 64.6

119 25.9 25.5 38.3

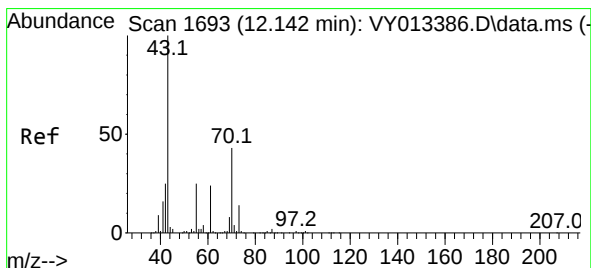
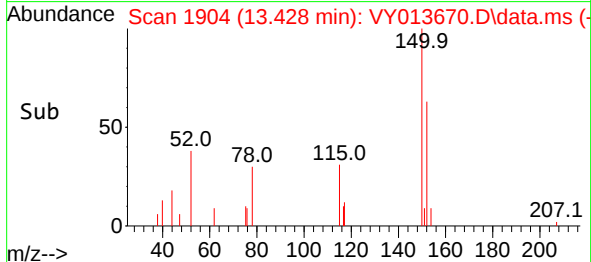
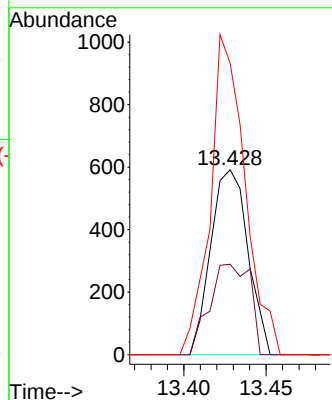
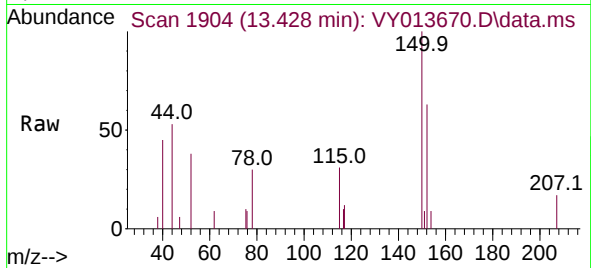




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

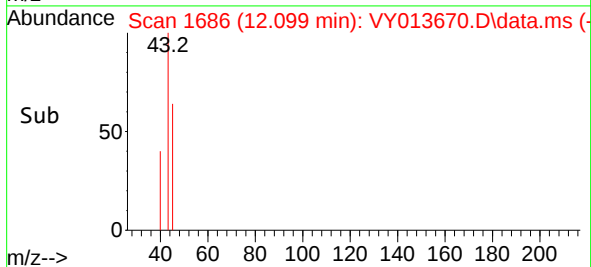
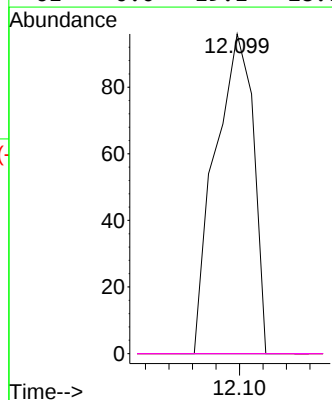
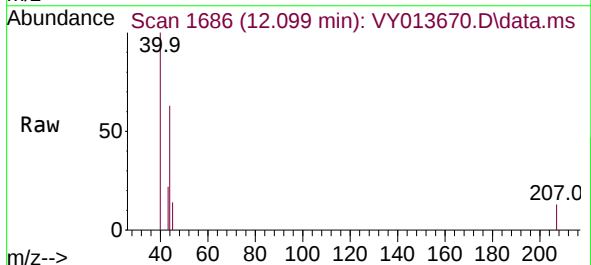
Instrument :
MSVOA_Y
ClientSampleId :
WZ-3

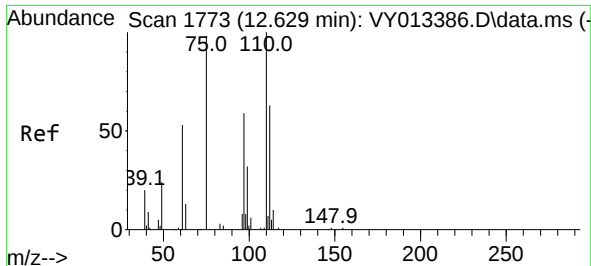
Tgt Ion:152 Resp: 928
Ion Ratio Lower Upper
152 100
115 53.4 28.1 84.2
150 161.4 0.0 352.0



#74
N-ethyl acetate
Concen: 4.364 ug/l
RT: 12.099 min Scan# 1686
Delta R.T. -0.043 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

Tgt Ion: 43 Resp: 109
Ion Ratio Lower Upper
43 100
70 0.0 33.0 49.4#
55 0.0 19.8 29.6#
61 0.0 19.1 28.7#

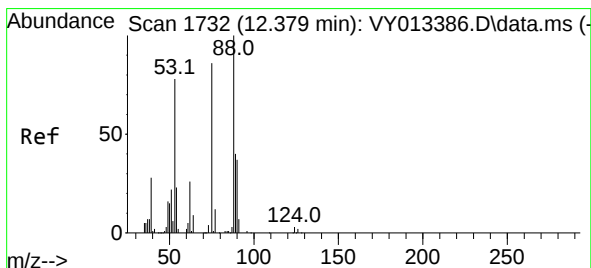
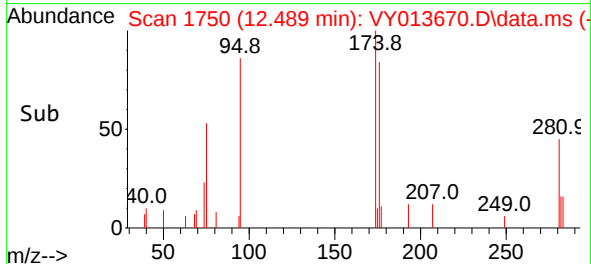
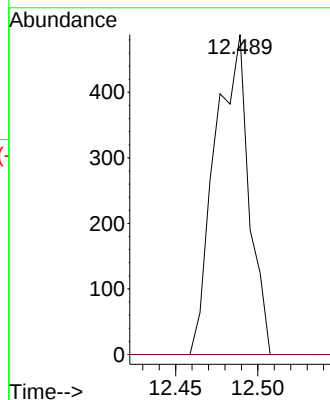
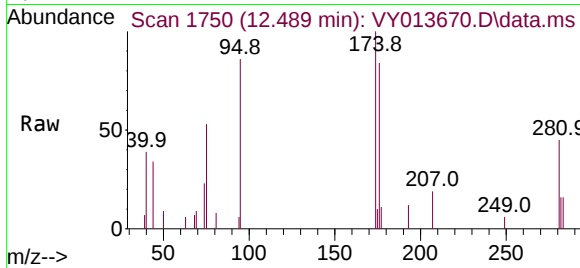




#76
1,2,3-Trichloropropane
Concen: 55.852 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.140 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

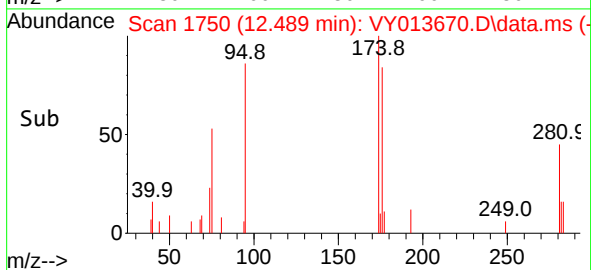
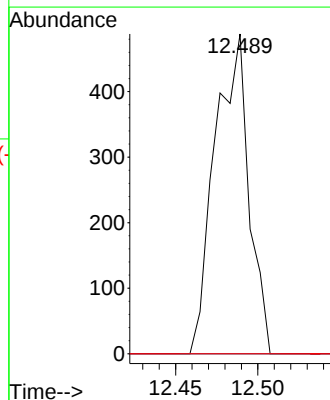
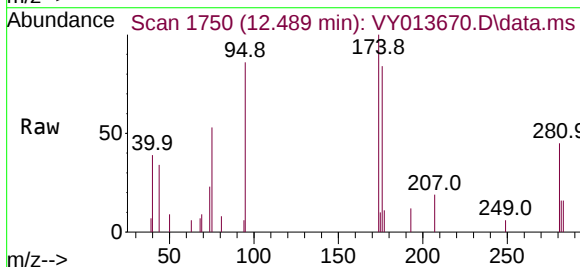
Instrument :
MSVOA_Y
ClientSampleId :
WZ-3

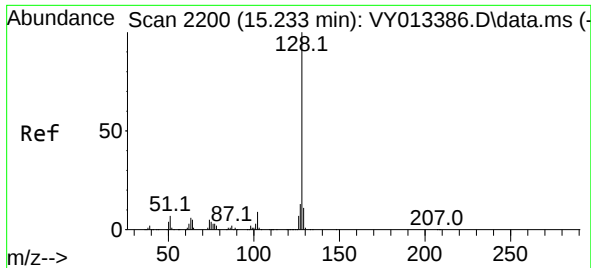
Tgt Ion: 75 Resp: 699
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 114.249 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.110 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

Tgt Ion: 75 Resp: 699
Ion Ratio Lower Upper
75 100
53 0.0 73.2 109.8#
89 0.0 38.0 57.0#





#95
Naphthalene
Concen: 1.691 ug/l
RT: 15.245 min Scan# 21
Delta R.T. 0.012 min
Lab File: VY013670.D
Acq: 09 May 2023 15:58

Instrument :
MSVOA_Y
ClientSampleId :
WZ-3

Tgt Ion:	128	Resp:	64
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	0.0	8.8	13.2#

