

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032425\
 Data File : VY021618.D
 Acq On : 24 Mar 2025 15:14
 Operator : SY/MD
 Sample : Q1611-01
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR200030

Quant Time: Mar 25 01:31:01 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)

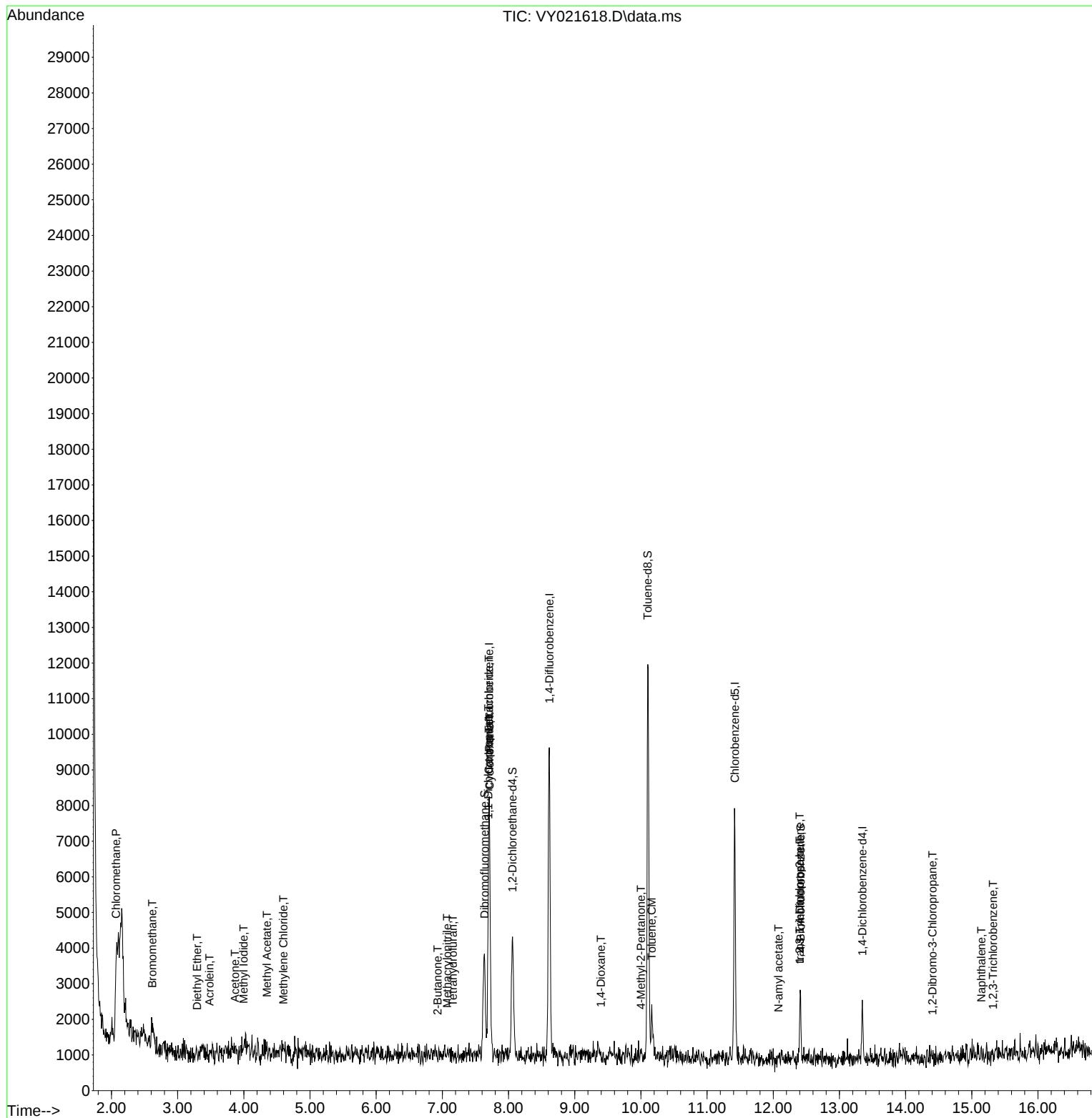
Internal Standards						
1) Pentafluorobenzene	7.707	168	5848	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	7577	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	3621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	475	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	2940	47.565	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	95.140%
35) Dibromofluoromethane	7.640	113	2210	44.373	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	88.740%
50) Toluene-d8	10.103	98	7655	40.594	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	81.180%
62) 4-Bromofluorobenzene	12.414	95	672	10.476	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	20.960%#
Target Compounds						
						Qvalue
3) Chloromethane	2.068	50	390	5.155	ug/l	# 75
5) Bromomethane	2.617	94	303	5.070	ug/l	94
8) Diethyl Ether	3.293	74	41	1.282	ug/l	# 1
10) Methyl Iodide	3.995	142	198	2.956	ug/l	# 37
11) Tert butyl alcohol	5.080	59	22	Below Cal	#	72
13) Acrolein	3.482	56	22	6.998	ug/l	# 10
16) Acetone	3.866	43	71	5.267	ug/l	# 47
18) Methyl Acetate	4.348	43	55	1.839	ug/l	# 51
20) Methylene Chloride	4.598	84	111	1.569	ug/l	# 49
25) 2-Butanone	6.927	43	26	1.394	ug/l	# 48
29) Tetrahydrofuran	7.159	42	44	3.822	ug/l	# 33
31) Cyclohexane	7.713	56	175	1.512	ug/l	# 1
36) 1,1-Dichloropropene	7.695	75	453	5.811	ug/l	# 41
38) Carbon Tetrachloride	7.701	117	684	7.629	ug/l	# 12
41) Methacrylonitrile	7.073	41	42	2.239	ug/l	# 24
49) 1,4-Dioxane	9.396	88	19	63.651	ug/l	# 22
51) 4-Methyl-2-Pentanone	10.000	43	60	1.738	ug/l	# 36
52) Toluene	10.164	92	671	4.634	ug/l	88
74) N-amyl acetate	12.078	43	27	3.323	ug/l	# 42
76) 1,2,3-Trichloropropane	12.402	75	434	90.672	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.402	75	434	206.125	ug/l	# 9
92) 1,2-Dibromo-3-Chloropr...	14.407	75	20	20.221	ug/l	# 1
95) Naphthalene	15.145	128	183	15.276	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.322	180	21	3.061	ug/l	# 13

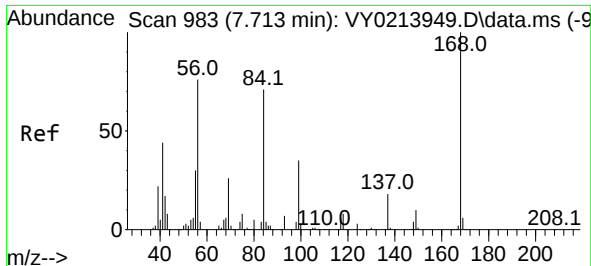
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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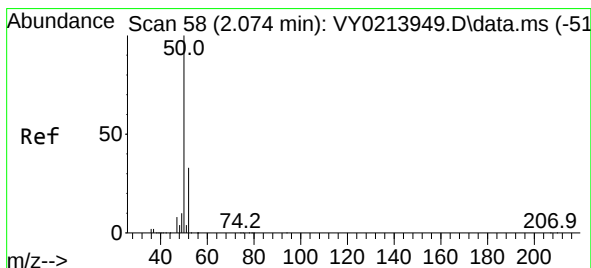
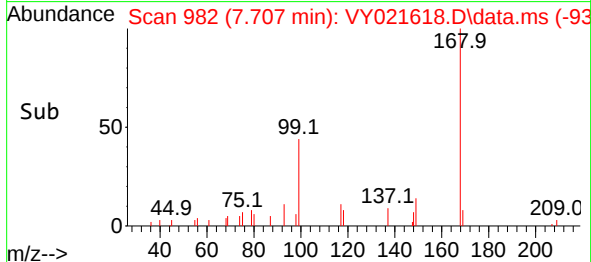
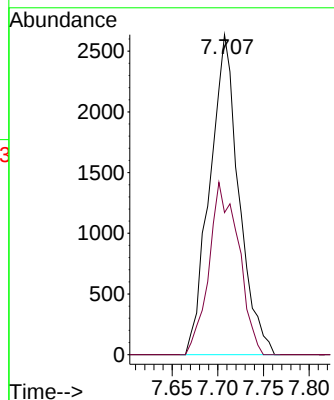
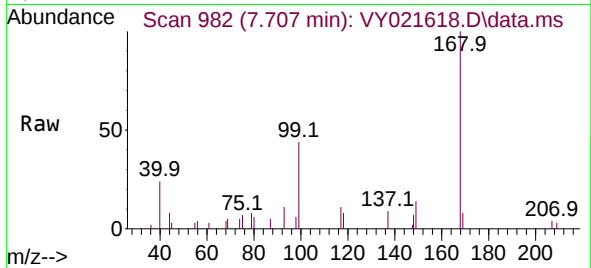




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 99
Delta R.T. -0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

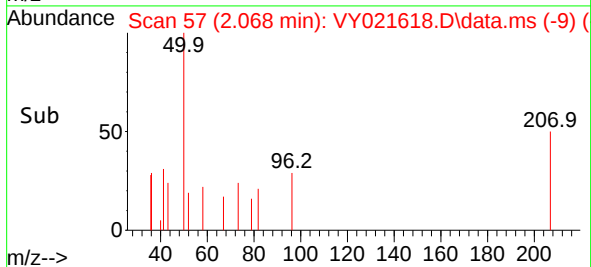
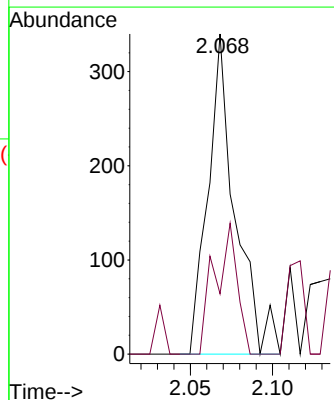
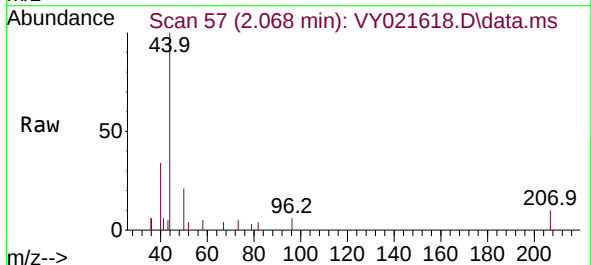
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

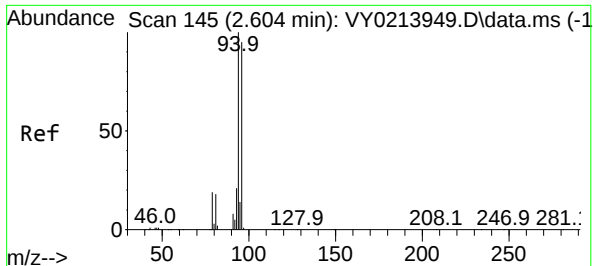
Tgt Ion:168 Resp: 5848
Ion Ratio Lower Upper
168 100
99 44.4 46.0 69.0#



#3
Chloromethane
Concen: 5.155 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion: 50 Resp: 390
Ion Ratio Lower Upper
50 100
52 18.8 26.2 39.2#

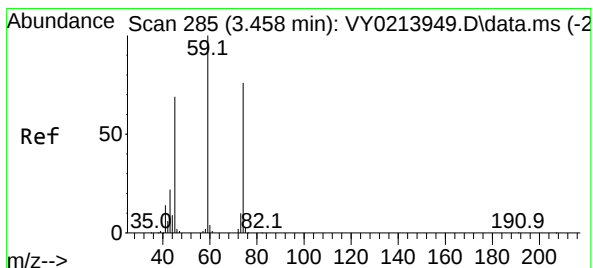
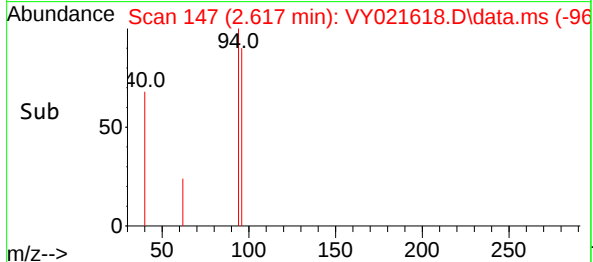
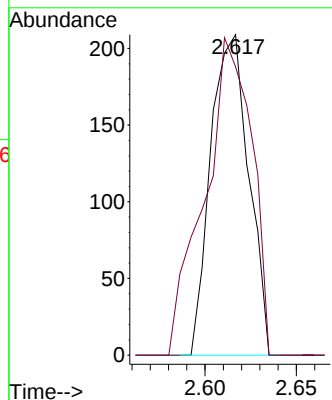
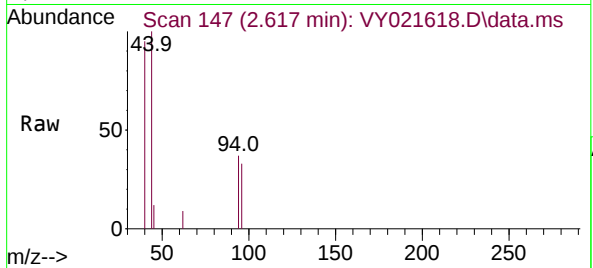




#5
Bromomethane
Concen: 5.070 ug/l
RT: 2.617 min Scan# 145
Delta R.T. 0.013 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

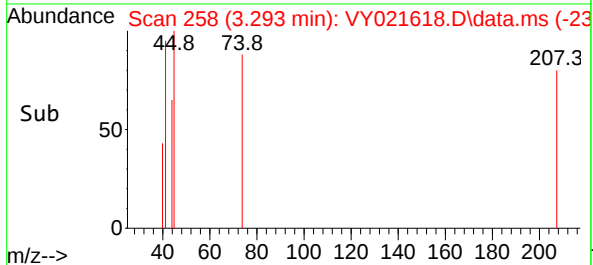
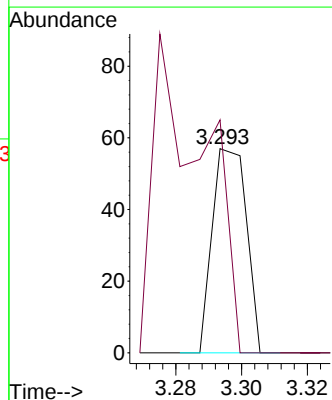
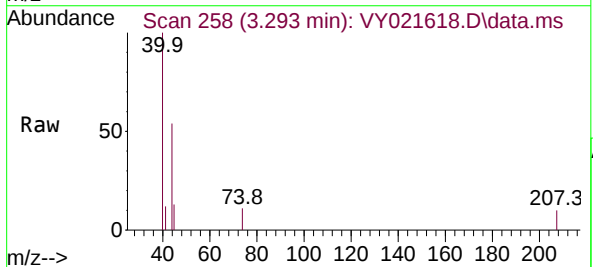
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

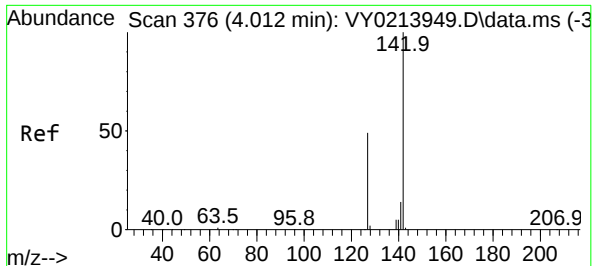
Tgt Ion: 94 Resp: 303
Ion Ratio Lower Upper
94 100
96 90.0 76.3 114.5



#8
Diethyl Ether
Concen: 1.282 ug/l
RT: 3.293 min Scan# 258
Delta R.T. -0.164 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion: 74 Resp: 41
Ion Ratio Lower Upper
74 100
45 231.7 49.7 149.1#





#10

Methyl Iodide

Concen: 2.956 ug/l

RT: 3.995 min Scan# 31

Delta R.T. -0.018 min

Lab File: VY021618.D

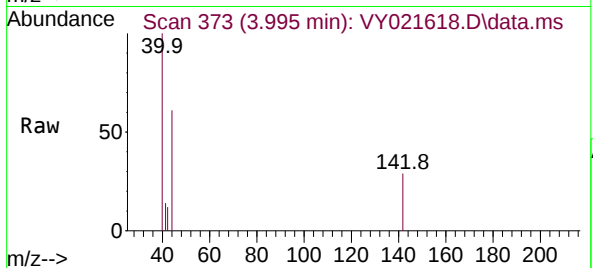
Acq: 24 Mar 2025 15:14

Instrument :

MSVOA_Y

ClientSampleId :

RBR200030



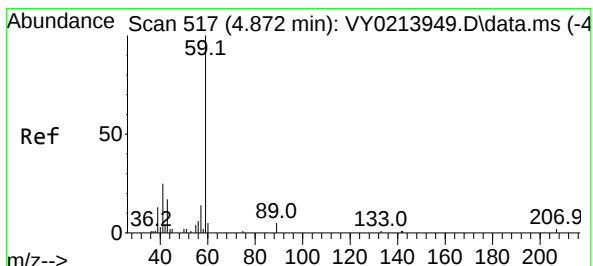
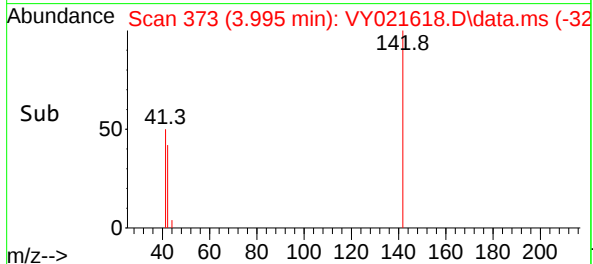
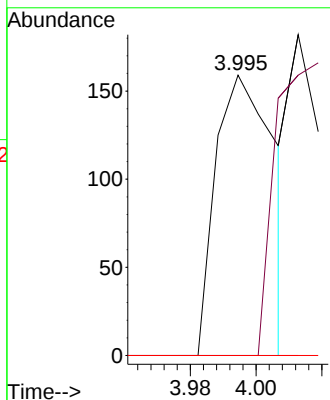
Tgt Ion:142 Resp: 198

Ion Ratio Lower Upper

142 100

127 0.0 39.1 58.7#

141 0.0 11.8 17.6#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.080 min Scan# 551

Delta R.T. 0.208 min

Lab File: VY021618.D

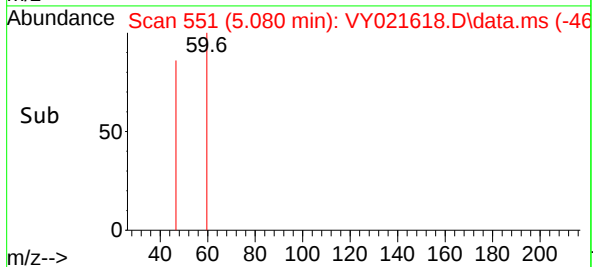
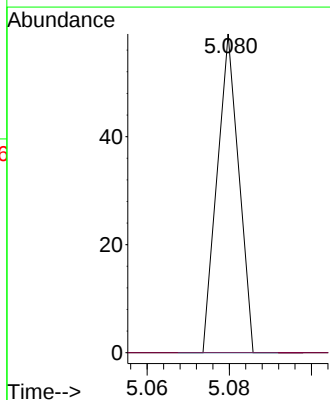
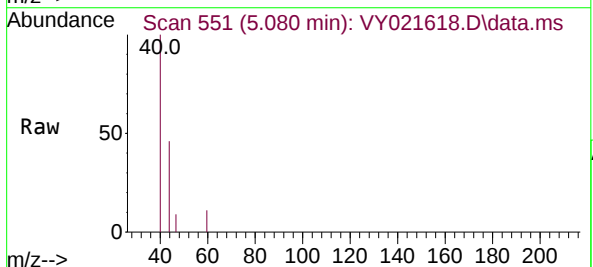
Acq: 24 Mar 2025 15:14

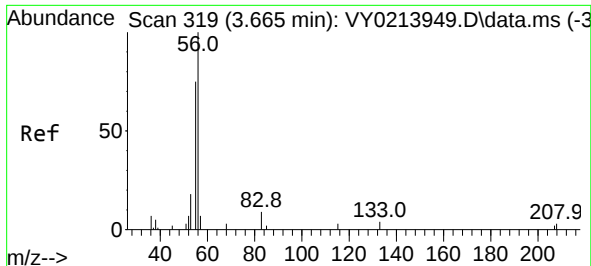
Tgt Ion: 59 Resp: 22

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

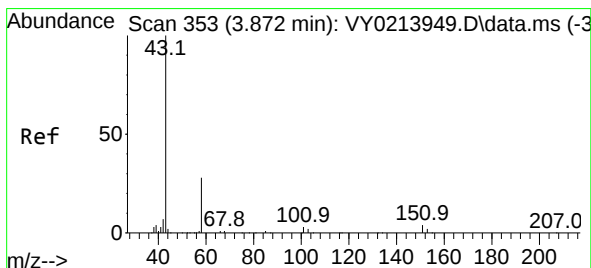
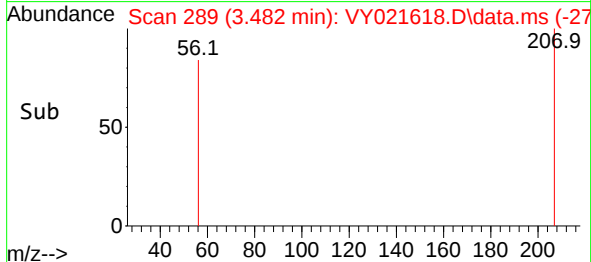
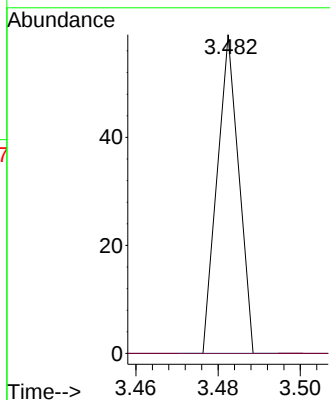
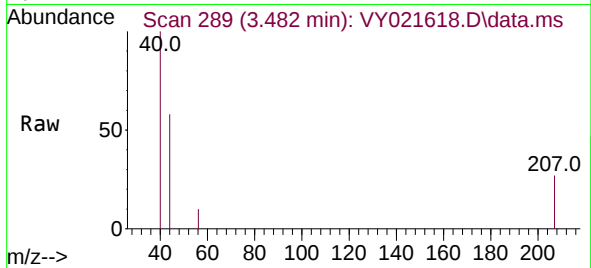




#13
Acrolein
Concen: 6.998 ug/l
RT: 3.482 min Scan# 21
Delta R.T. -0.183 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

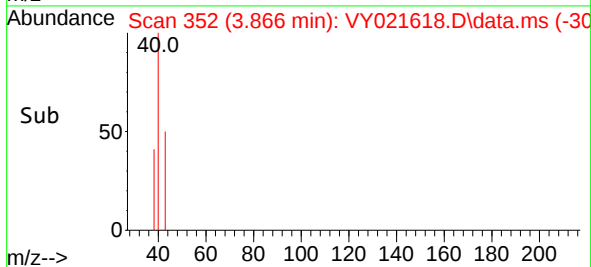
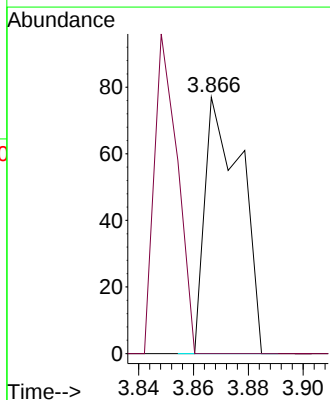
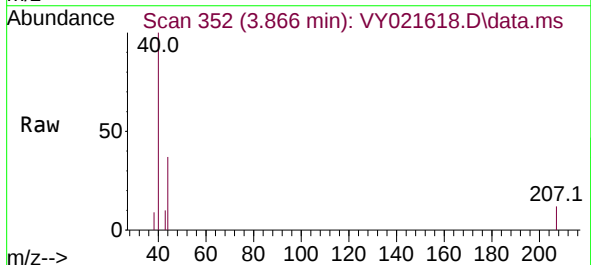
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

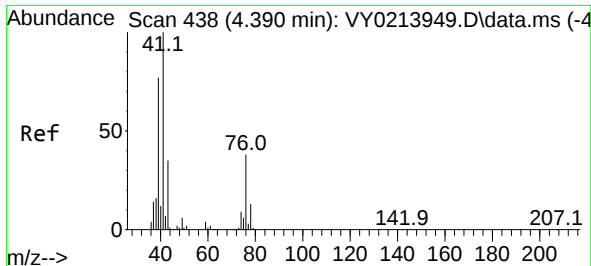
Tgt Ion: 56 Resp: 22
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#



#16
Acetone
Concen: 5.267 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#





#18

Methyl Acetate

Concen: 1.839 ug/l

RT: 4.348 min Scan# 41

Delta R.T. -0.042 min

Lab File: VY021618.D

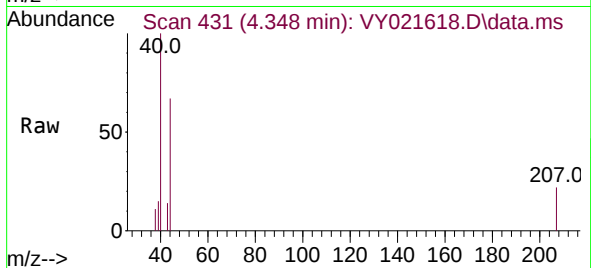
Acq: 24 Mar 2025 15:14

Instrument :

MSVOA_Y

ClientSampleId :

RBR200030

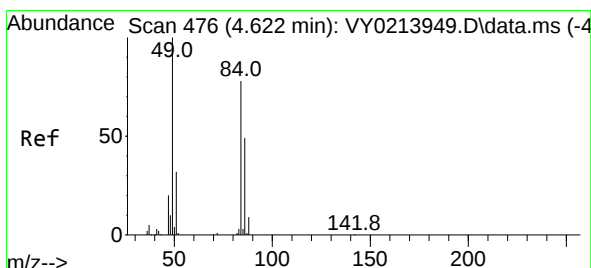
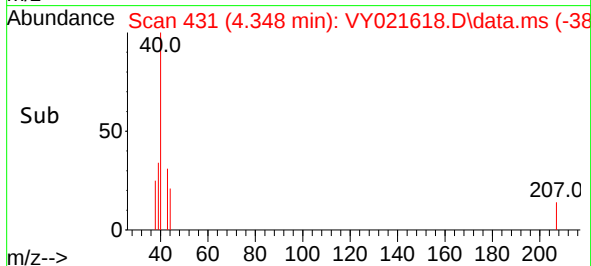
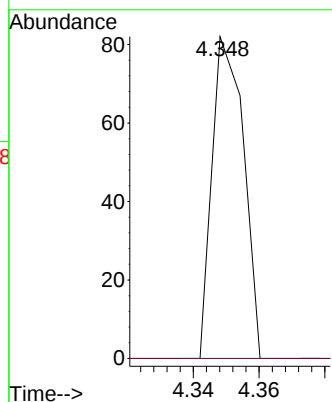


Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.0#



#20

Methylene Chloride

Concen: 1.569 ug/l

RT: 4.598 min Scan# 472

Delta R.T. -0.024 min

Lab File: VY021618.D

Acq: 24 Mar 2025 15:14

Tgt Ion: 84 Resp: 111

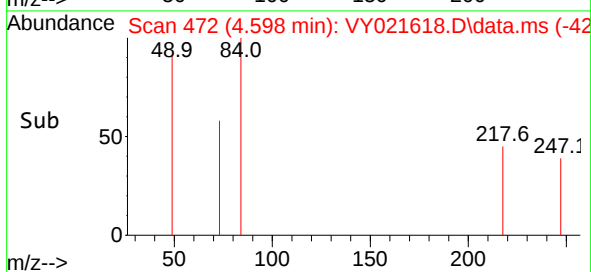
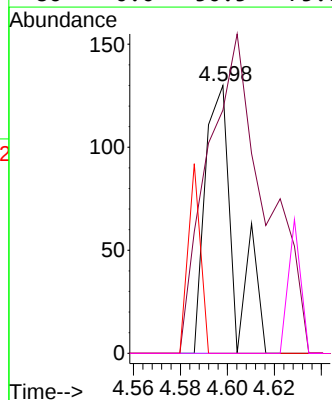
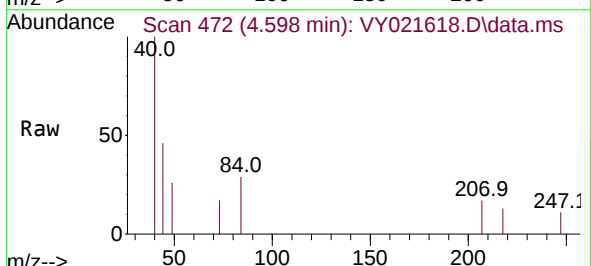
Ion Ratio Lower Upper

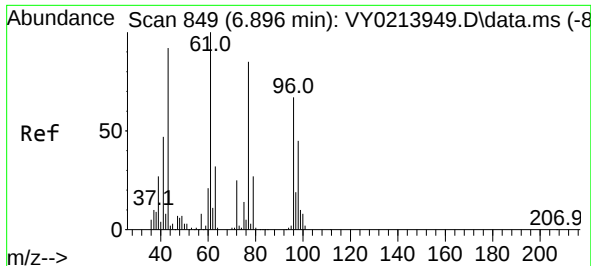
84 100

49 90.8 102.0 153.0#

51 0.0 33.0 49.6#

86 0.0 50.5 75.7#





#25

2-Butanone

Concen: 1.394 ug/l

RT: 6.927 min Scan# 81

Delta R.T. 0.031 min

Lab File: VY021618.D

Acq: 24 Mar 2025 15:14

Instrument :

MSVOA_Y

ClientSampleId :

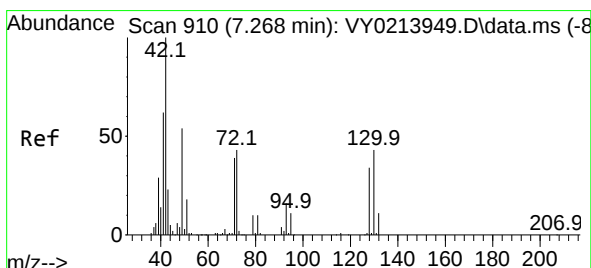
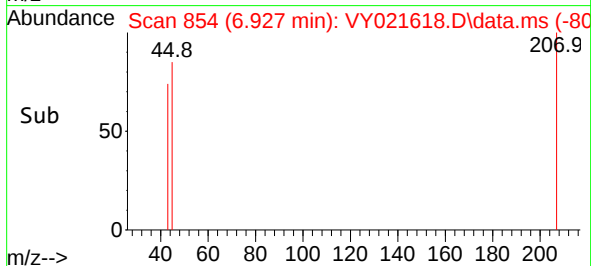
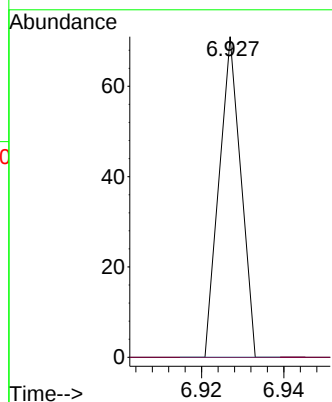
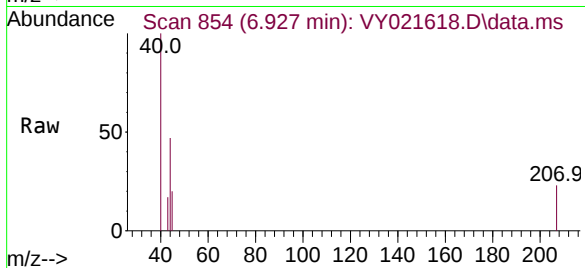
RBR200030

Tgt Ion: 43 Resp: 26

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



#29

Tetrahydrofuran

Concen: 3.822 ug/l

RT: 7.159 min Scan# 892

Delta R.T. -0.109 min

Lab File: VY021618.D

Acq: 24 Mar 2025 15:14

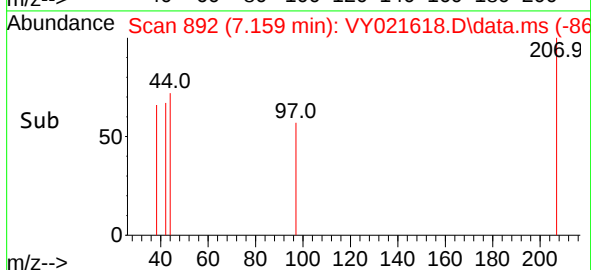
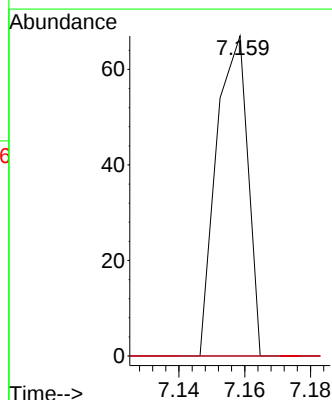
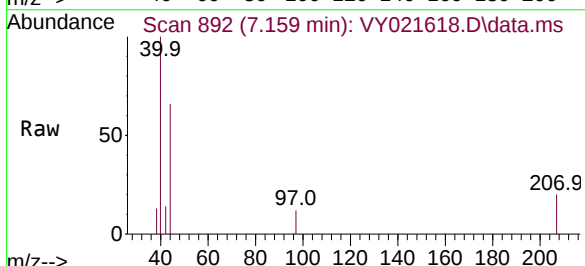
Tgt Ion: 42 Resp: 44

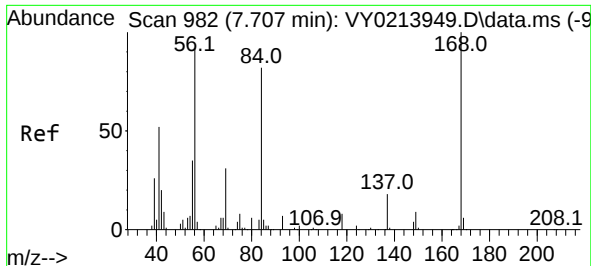
Ion Ratio Lower Upper

42 100

72 0.0 34.8 52.2#

71 0.0 32.6 48.8#

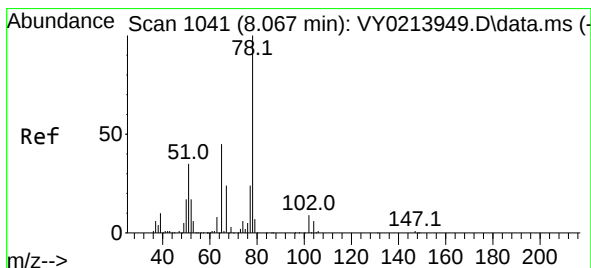
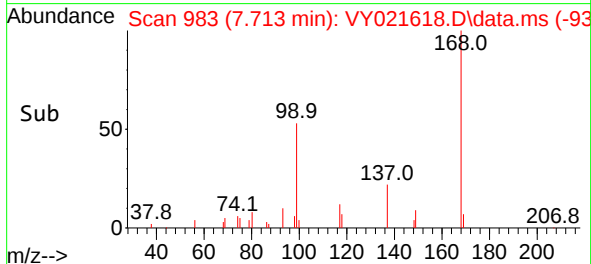
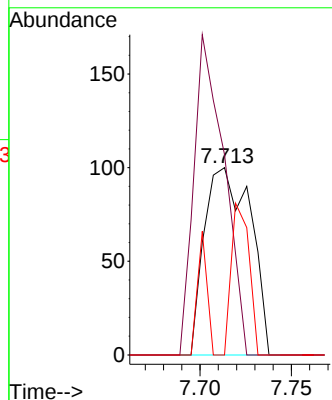
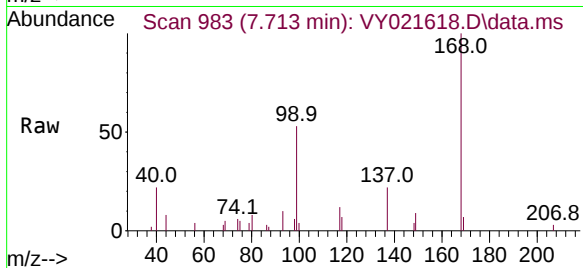




#31
Cyclohexane
Concen: 1.512 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

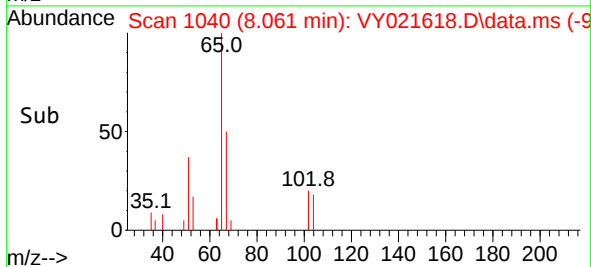
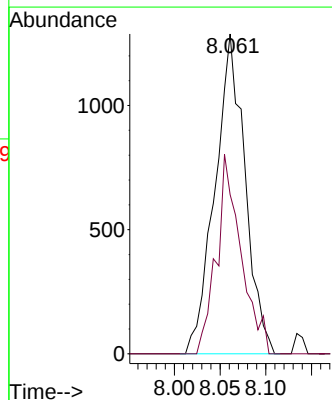
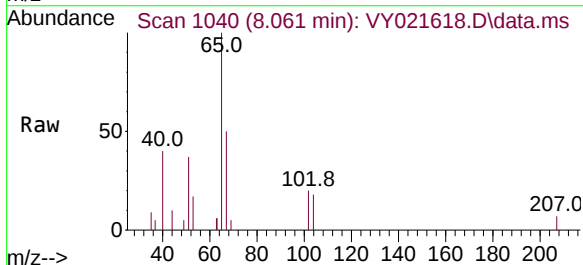
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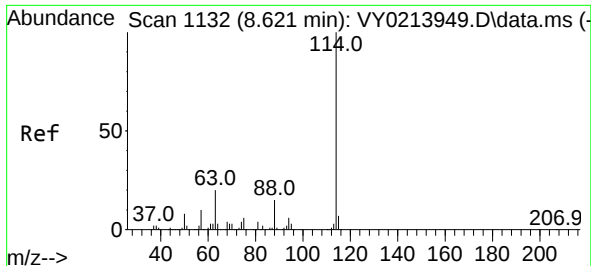
Tgt Ion: 56 Resp: 175
Ion Ratio Lower Upper
56 100
69 107.0 27.0 40.4#
84 0.0 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 47.565 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion: 65 Resp: 2940
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1132

Delta R.T. -0.006 min

Lab File: VY021618.D

Acq: 24 Mar 2025 15:14

Instrument :

MSVOA_Y

ClientSampleId :

RBR200030

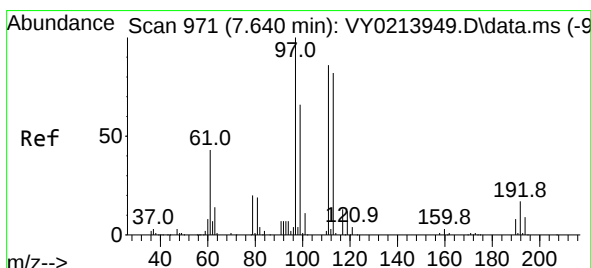
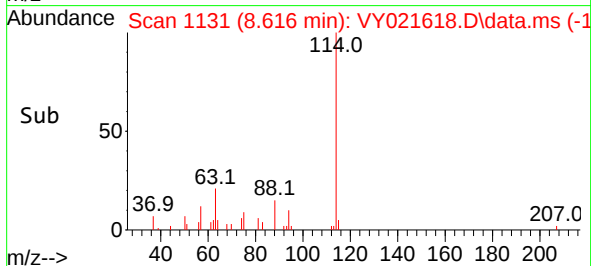
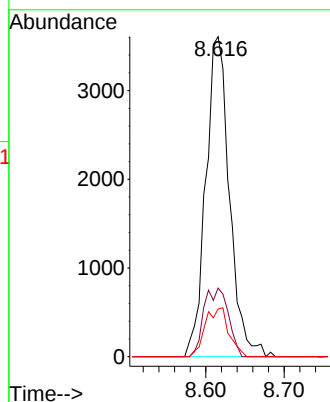
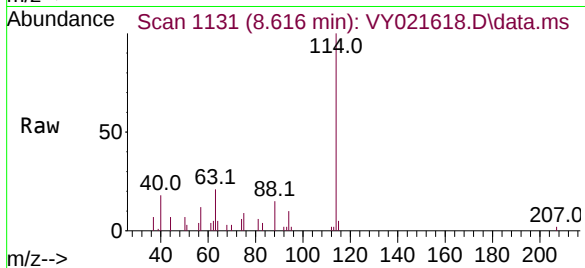
Tgt Ion:114 Resp: 7577

Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.8

88 14.9 0.0 30.8



#35

Dibromofluoromethane

Concen: 44.373 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.000 min

Lab File: VY021618.D

Acq: 24 Mar 2025 15:14

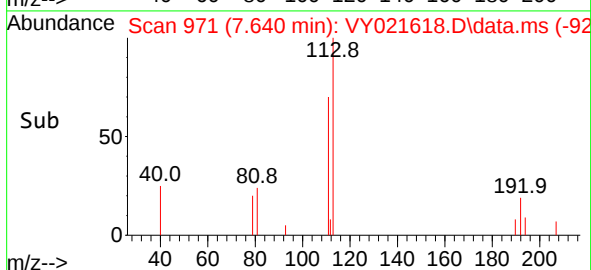
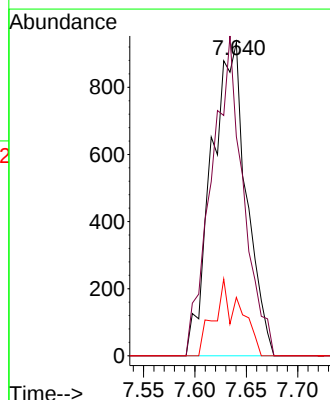
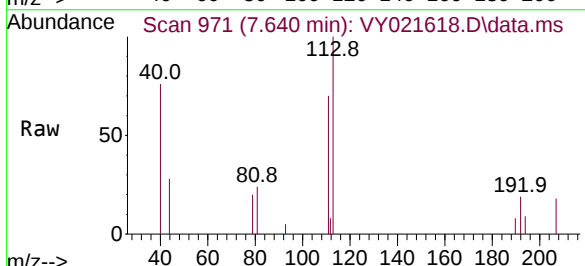
Tgt Ion:113 Resp: 2210

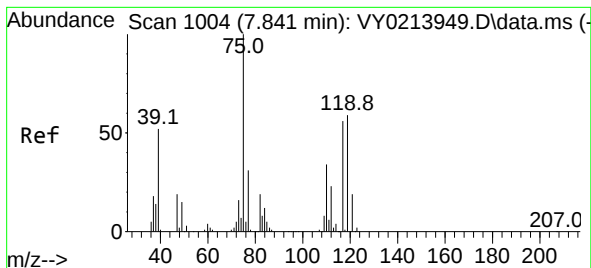
Ion Ratio Lower Upper

113 100

111 93.0 82.0 123.0

192 18.3 15.9 23.9





#36

1,1-Dichloropropene

Concen: 5.811 ug/l

RT: 7.695 min Scan# 90

Delta R.T. -0.146 min

Lab File: VY021618.D

Acq: 24 Mar 2025 15:14

Instrument :

MSVOA_Y

ClientSampleId :

RBR200030

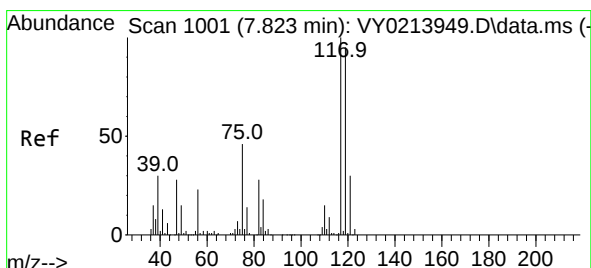
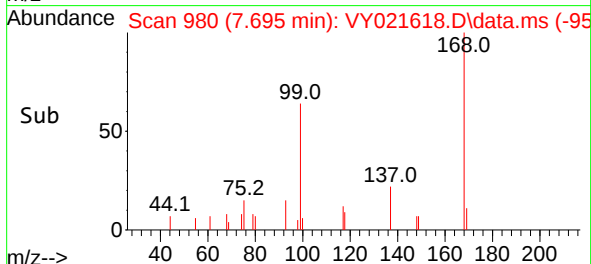
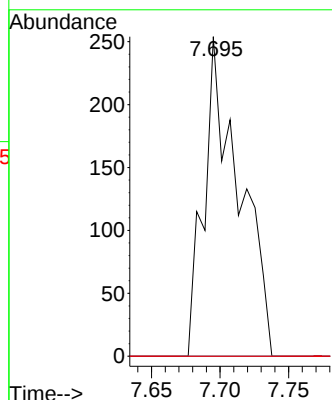
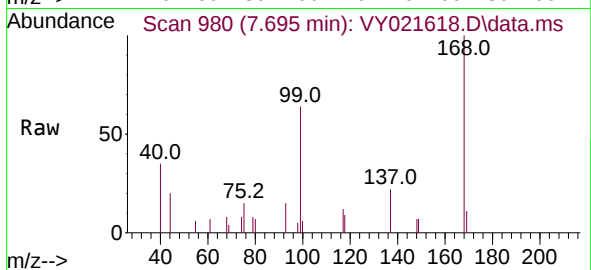
Tgt Ion: 75 Resp: 453

Ion Ratio Lower Upper

75 100

110 0.0 17.3 51.7#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 7.629 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.122 min

Lab File: VY021618.D

Acq: 24 Mar 2025 15:14

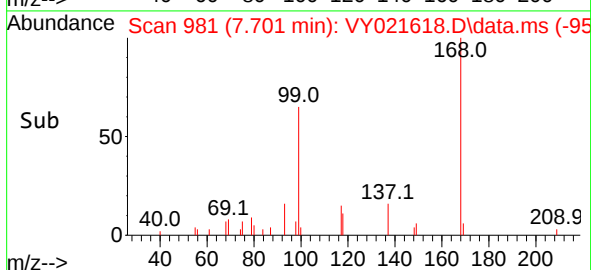
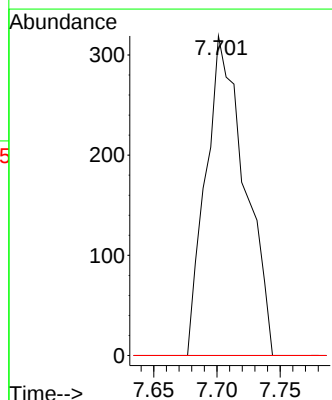
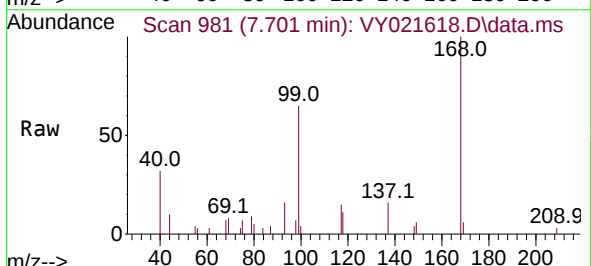
Tgt Ion: 117 Resp: 684

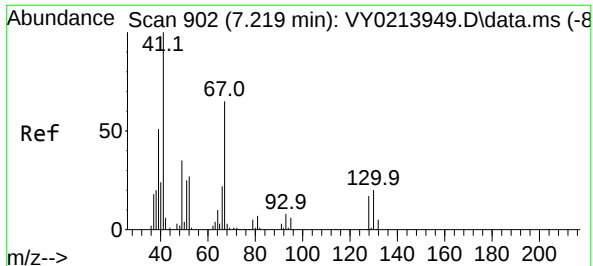
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#

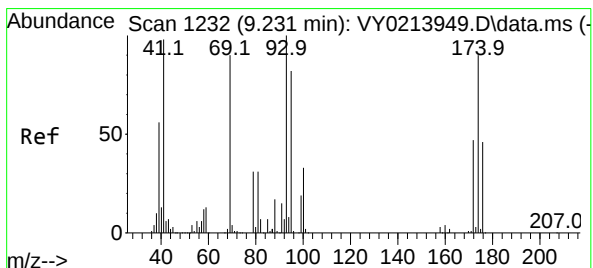
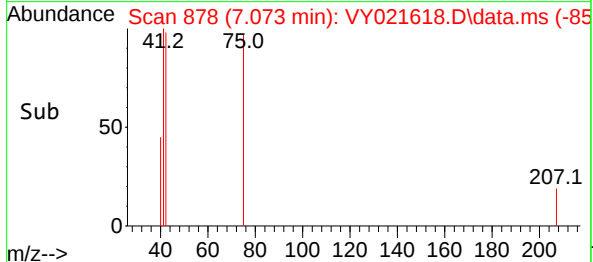
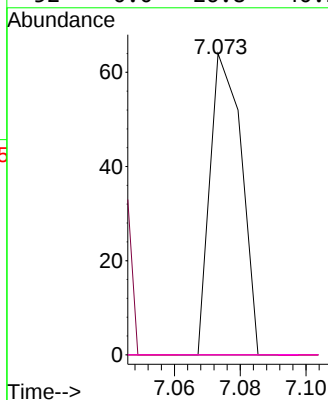
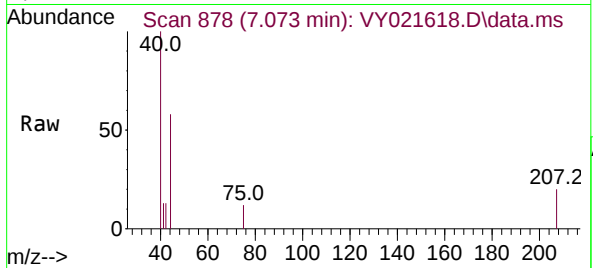




#41
Methacrylonitrile
Concen: 2.239 ug/l
RT: 7.073 min Scan# 81
Delta R.T. -0.146 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

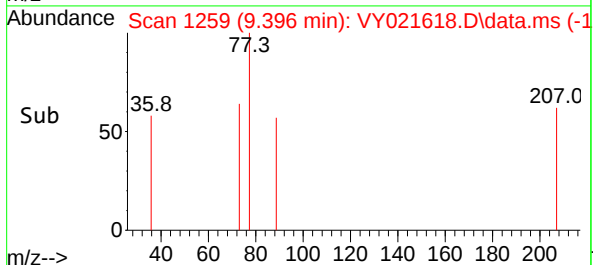
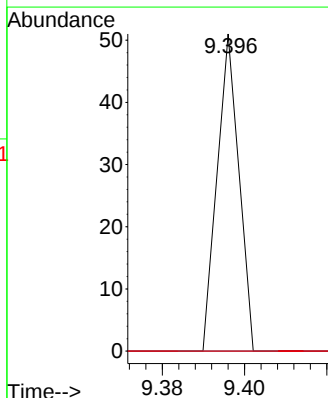
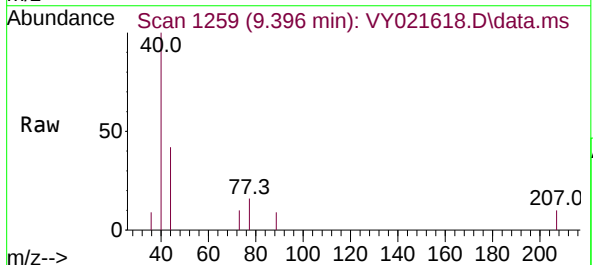
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

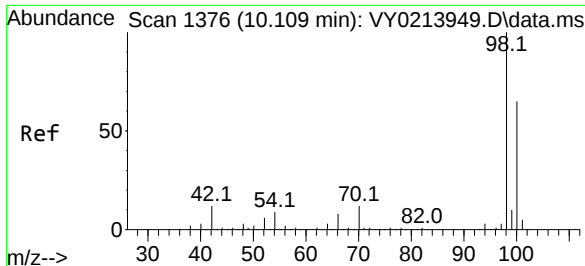
Tgt Ion:	41	Resp:	42
Ion	Ratio	Lower	Upper
41	100		
39	0.0	35.0	52.6#
67	0.0	61.2	91.8#
52	0.0	26.8	40.2#



#49
1,4-Dioxane
Concen: 63.651 ug/l
RT: 9.396 min Scan# 1259
Delta R.T. 0.165 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion:	88	Resp:	19
Ion	Ratio	Lower	Upper
88	100		
43	0.0	25.0	37.4#
58	0.0	58.4	87.6#

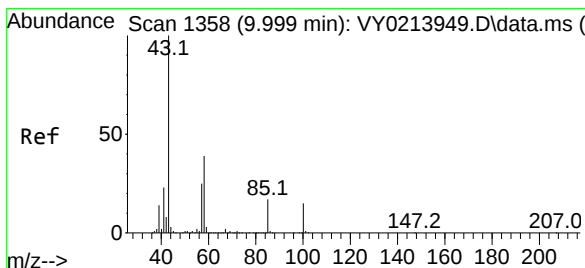
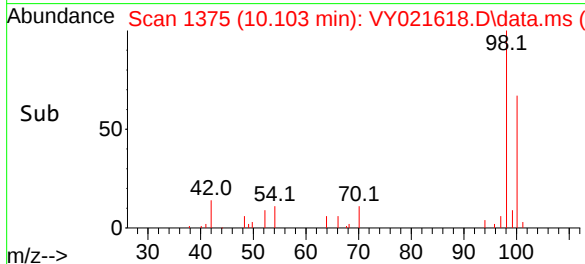
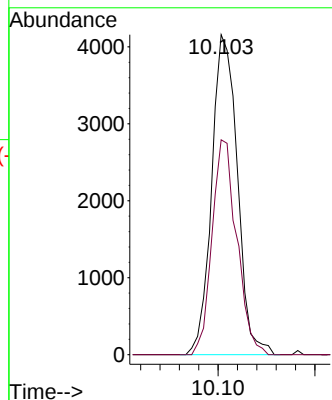
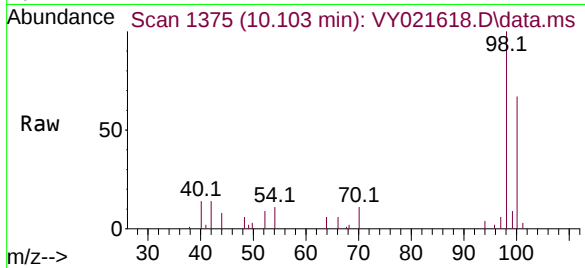




#50
Toluene-d8
Concen: 40.594 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

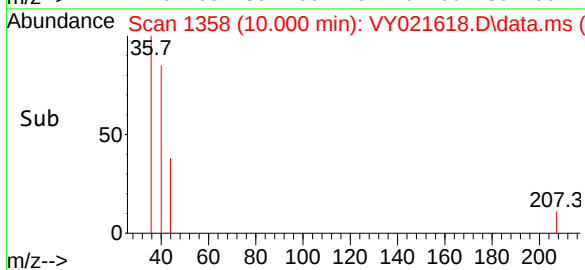
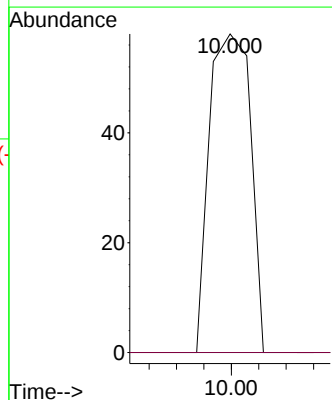
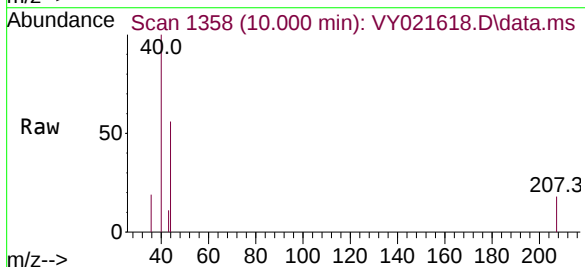
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

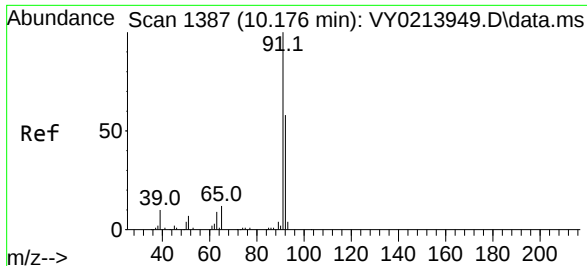
Tgt Ion: 98 Resp: 7655
Ion Ratio Lower Upper
98 100
100 64.8 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.738 ug/l
RT: 10.000 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#

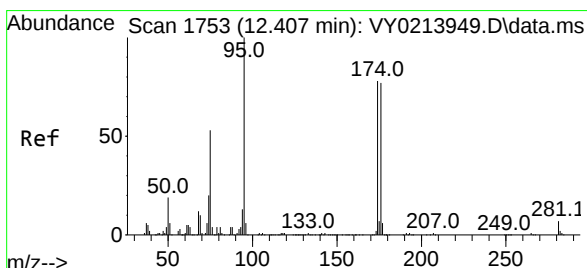
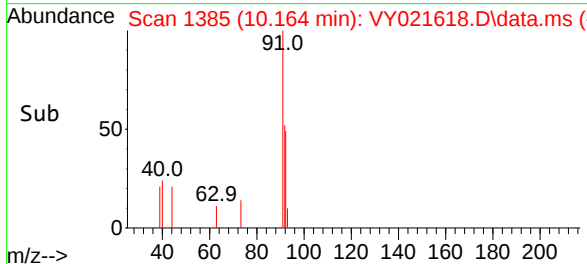
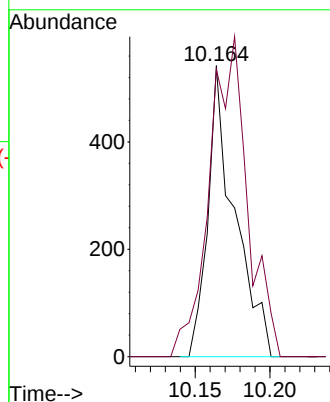
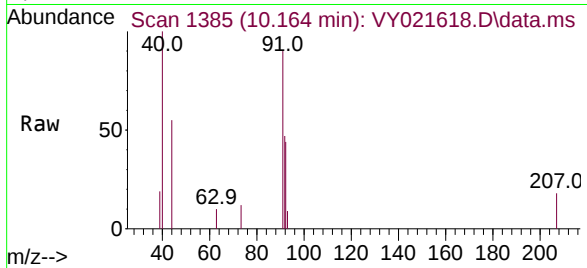




#52
Toluene
Concen: 4.634 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.012 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

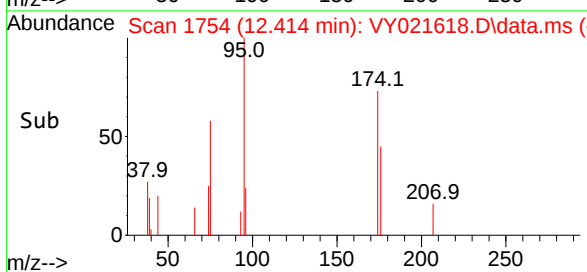
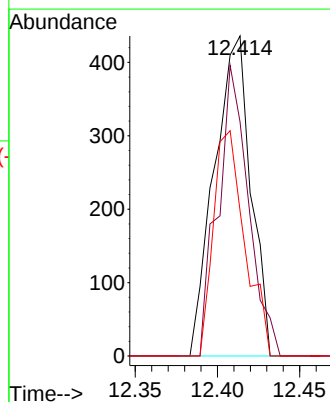
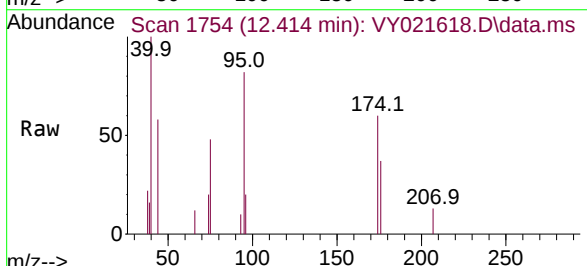
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

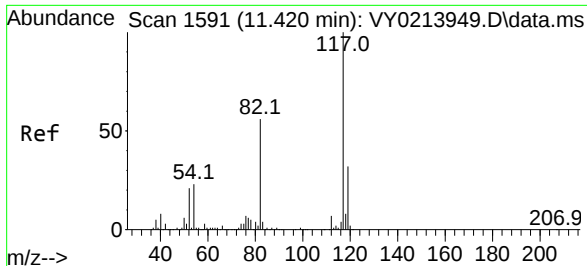
Tgt Ion: 92 Resp: 671
Ion Ratio Lower Upper
92 100
91 156.6 138.2 207.2



#62
4-Bromofluorobenzene
Concen: 10.476 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion: 95 Resp: 672
Ion Ratio Lower Upper
95 100
174 76.5 0.0 165.0
176 60.6 0.0 160.0

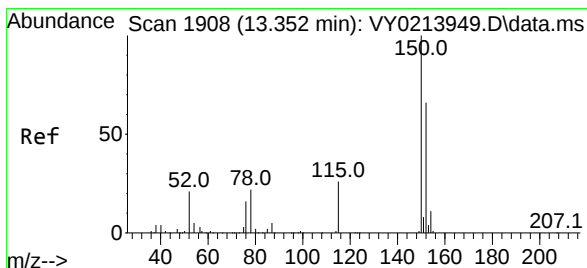
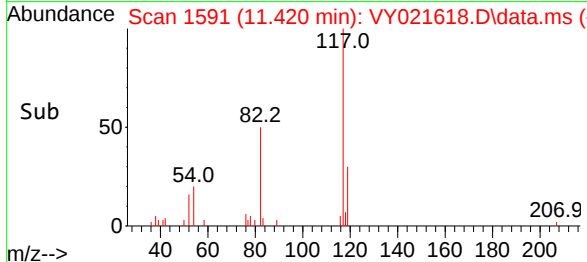
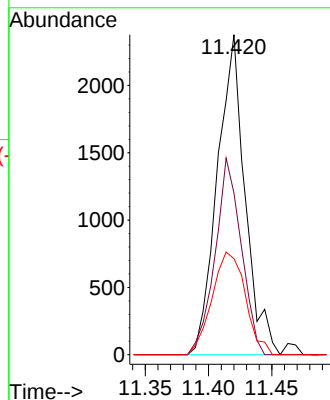
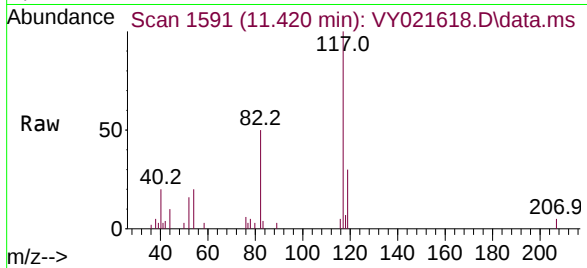




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

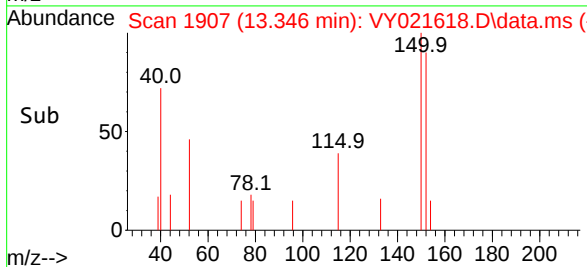
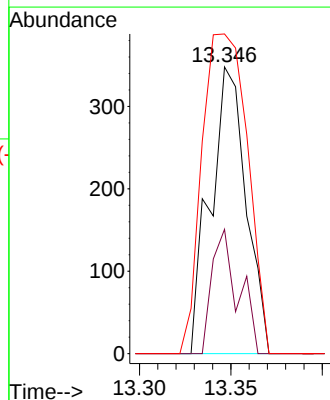
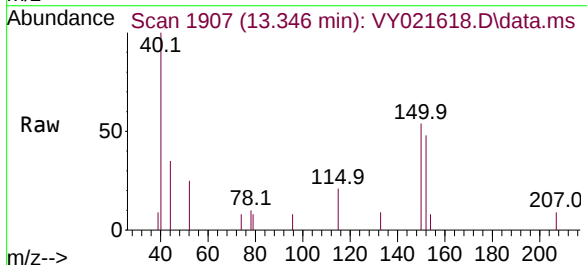
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

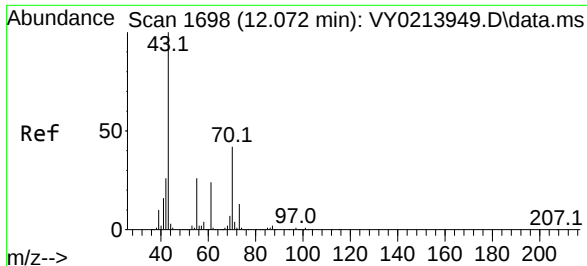
Tgt Ion:	117	Resp:	3621
Ion Ratio	Lower	Upper	
117	100		
82	50.5	44.6	67.0
119	30.0	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion:	152	Resp:	475
Ion Ratio	Lower	Upper	
152	100		
115	31.6	29.0	87.0
150	141.7	0.0	347.2

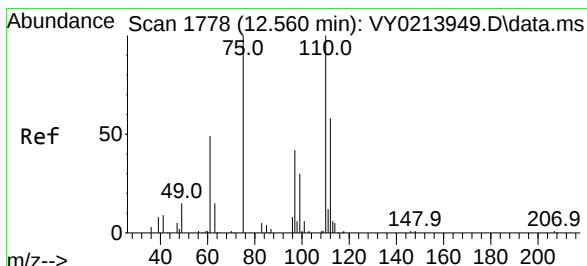
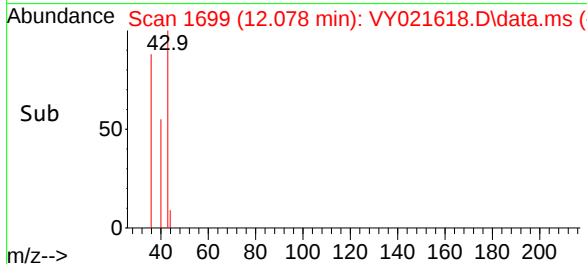
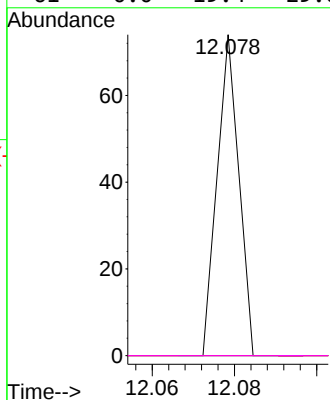
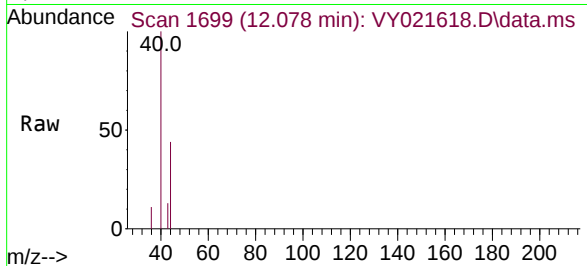




#74
N-amy1 acetate
Concen: 3.323 ug/l
RT: 12.078 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

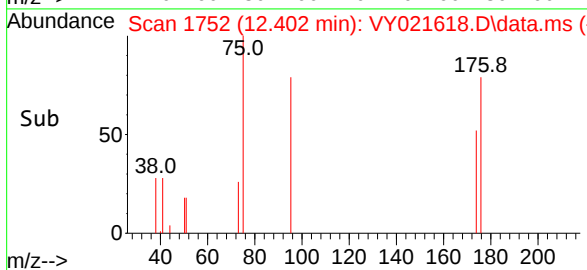
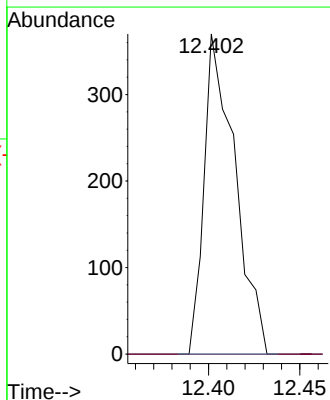
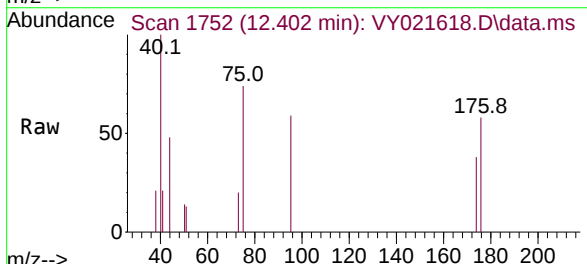
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

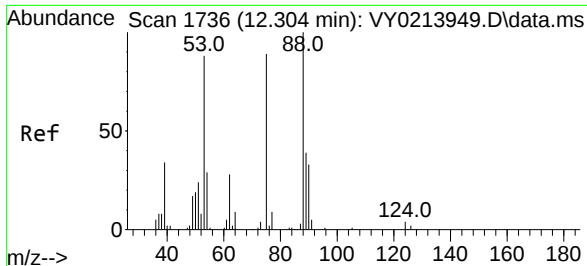
Tgt Ion: 43	Resp:	27
Ion Ratio	Lower	Upper
43	100	
70	0.0	34.6 51.8#
55	0.0	21.1 31.7#
61	0.0	19.4 29.0#



#76
1,2,3-Trichloropropane
Concen: 90.672 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.158 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion: 75	Resp:	434
Ion Ratio	Lower	Upper
75	100	
77	0.0	0.0 0.0

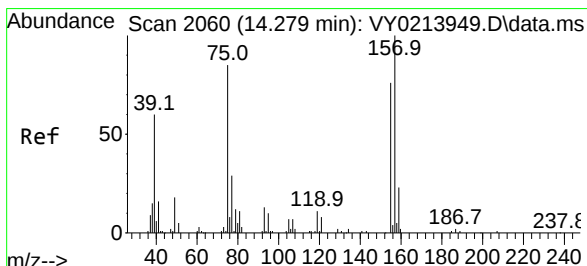
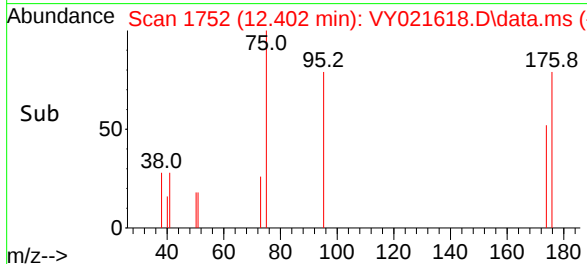
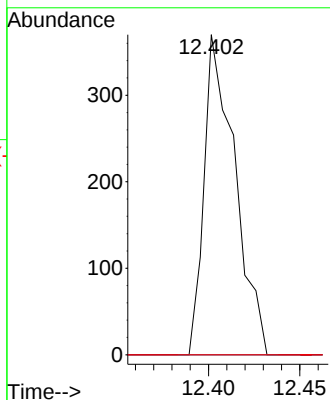
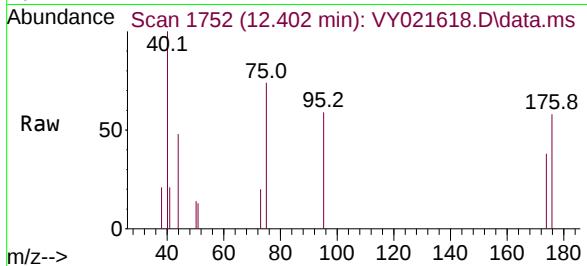




#81
trans-1,4-Dichloro-2-butene
Concen: 206.125 ug/l
RT: 12.402 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

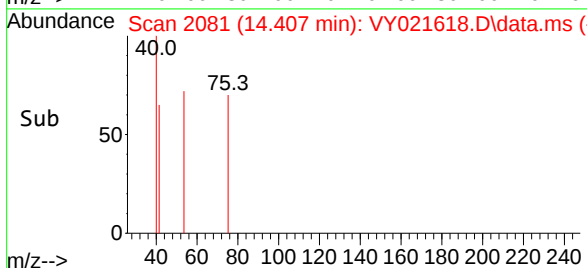
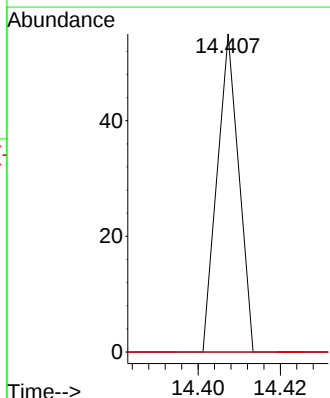
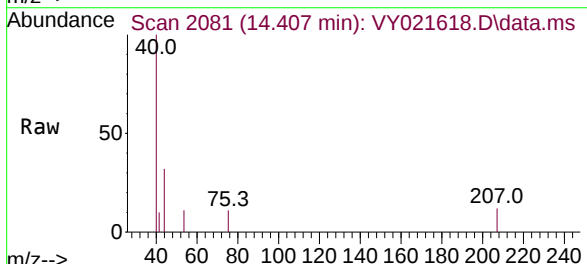
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

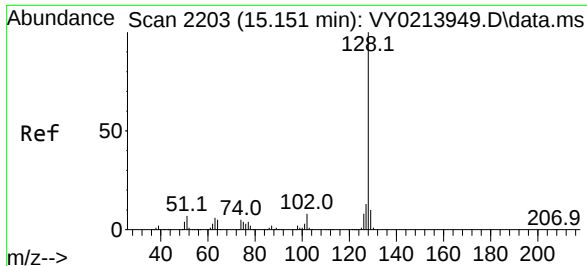
Tgt Ion: 75 Resp: 434
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.0 36.9 55.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.221 ug/l
RT: 14.407 min Scan# 2081
Delta R.T. 0.128 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion: 75 Resp: 20
Ion Ratio Lower Upper
75 100
155 0.0 43.5 130.5#
157 0.0 54.4 163.2#

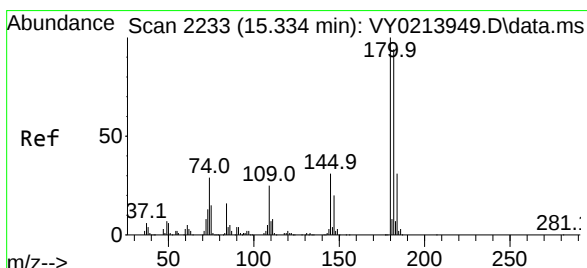
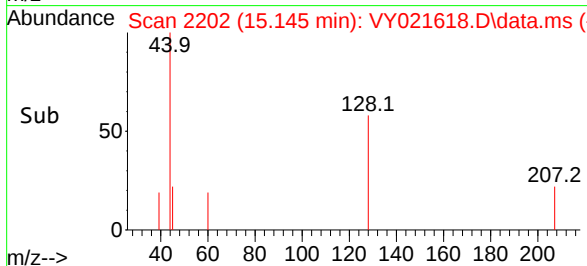
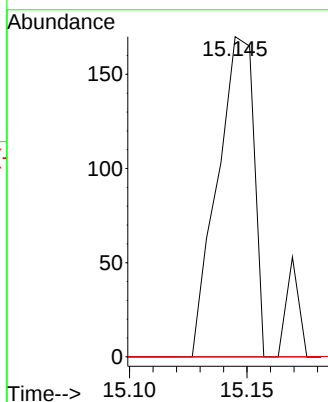
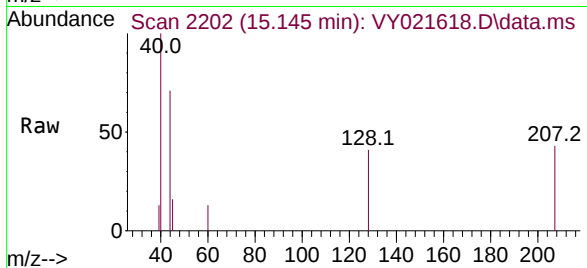




#95
Naphthalene
Concen: 15.276 ug/l
RT: 15.145 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

Tgt Ion:128 Resp: 183
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 3.061 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.012 min
Lab File: VY021618.D
Acq: 24 Mar 2025 15:14

Tgt Ion:180 Resp: 21
Ion Ratio Lower Upper
180 100
182 0.0 47.2 141.6#
145 0.0 16.4 49.1#

