

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
 Data File : VY021493.D
 Acq On : 11 Mar 2025 17:52
 Operator : SY/MD
 Sample : Q1508-01
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR251372

Quant Time: Mar 12 01:25:57 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)

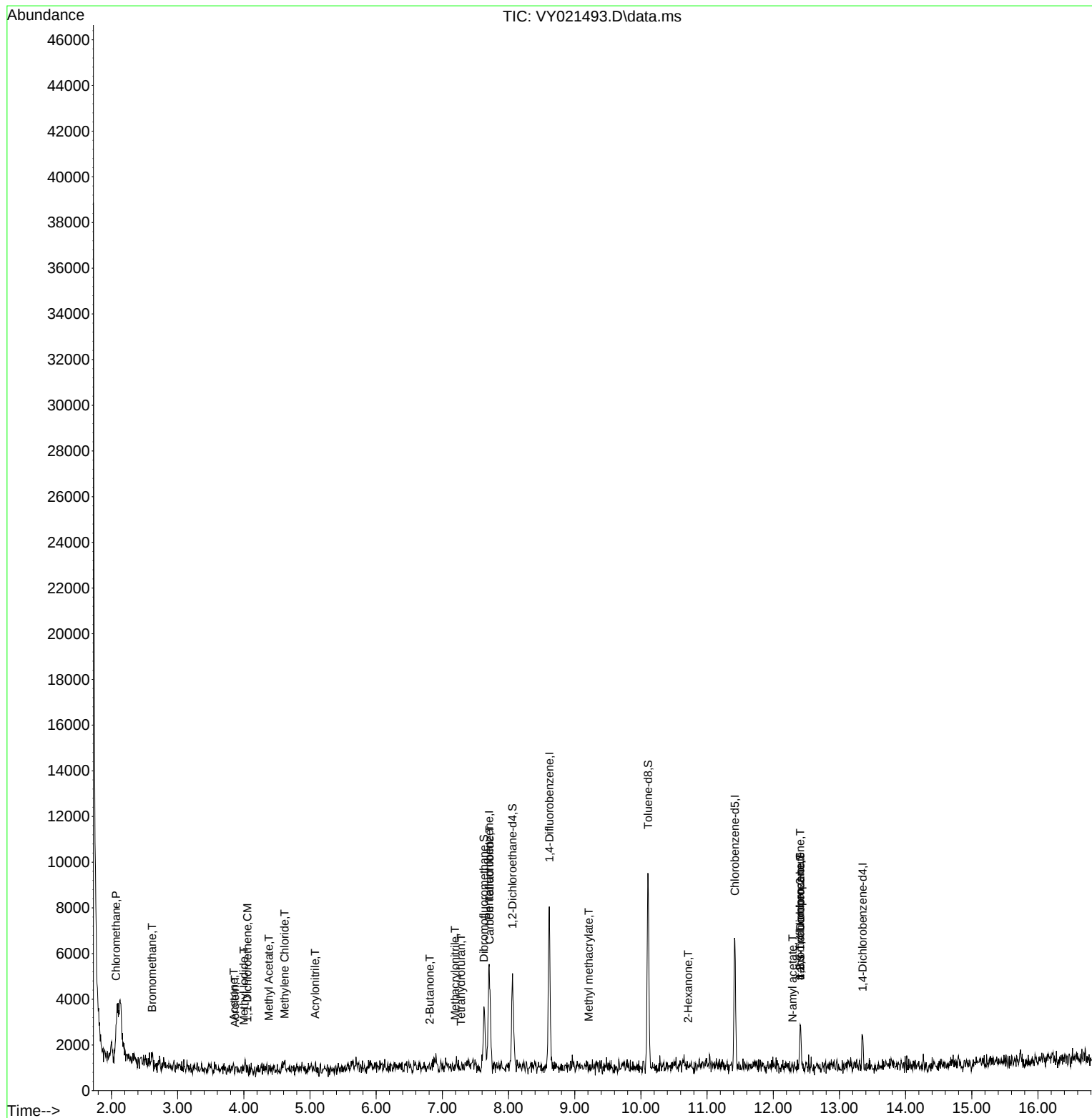
Internal Standards						
1) Pentafluorobenzene	7.707	168	3739	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	5849	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	3234	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	611	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	3330	84.263	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	168.520%#
35) Dibromofluoromethane	7.628	113	1889	49.133	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.260%
50) Toluene-d8	10.109	98	5831	40.056	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	80.120%
62) 4-Bromofluorobenzene	12.408	95	630	12.723	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	25.440%#
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	140	2.894	ug/l #	42
5) Bromomethane	2.611	94	158	4.135	ug/l #	2
10) Methyl Iodide	4.001	142	185	4.320	ug/l #	56
12) 1,1-Dichloroethene	4.055	96	44	1.146	ug/l #	1
13) Acrolein	3.866	56	21	10.447	ug/l #	10
15) Acrylonitrile	5.080	53	50	5.744	ug/l #	17
16) Acetone	3.848	43	93	10.790	ug/l #	47
18) Methyl Acetate	4.379	43	45	2.353	ug/l #	51
20) Methylene Chloride	4.616	84	82	1.812	ug/l #	80
25) 2-Butanone	6.811	43	22	1.845	ug/l #	48
29) Tetrahydrofuran	7.280	42	42	5.706	ug/l #	33
38) Carbon Tetrachloride	7.713	117	256	3.699	ug/l #	12
41) Methacrylonitrile	7.189	41	60	4.143	ug/l #	11
48) Methyl methacrylate	9.213	41	27	1.139	ug/l #	13
59) 2-Hexanone	10.713	43	30	1.703	ug/l #	24
74) N-amyl acetate	12.292	43	41	3.922	ug/l #	42
76) 1,2,3-Trichloropropane	12.408	75	363	58.958	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	363	134.029	ug/l #	9

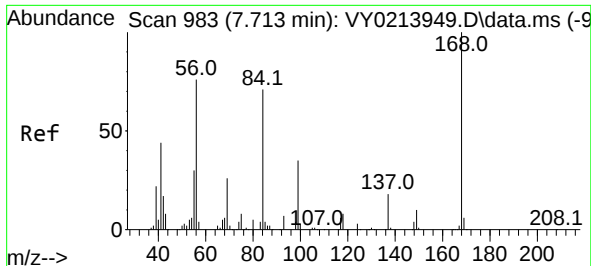
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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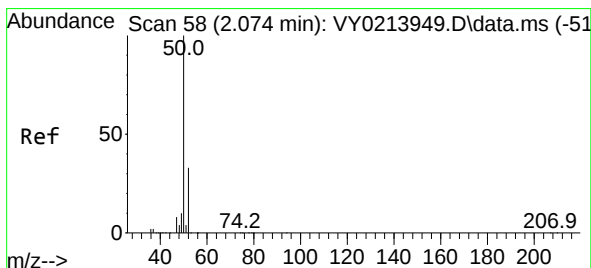
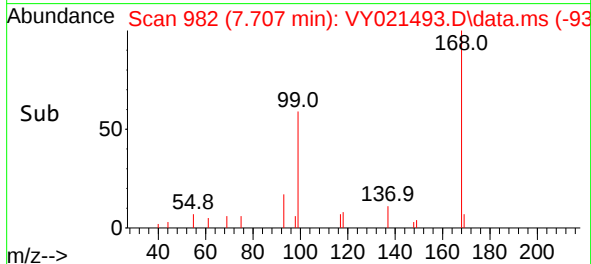
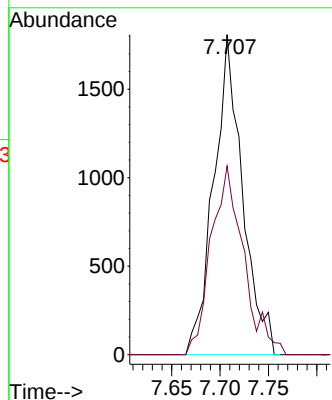
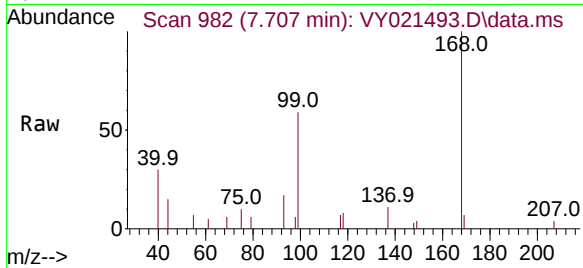




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

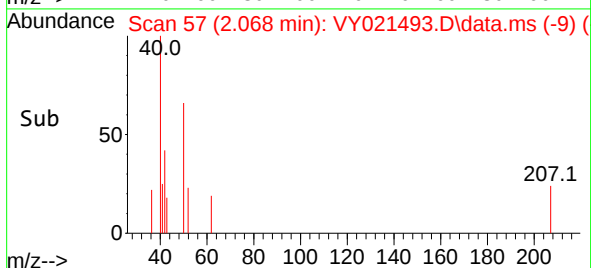
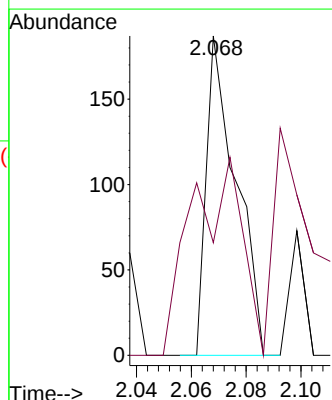
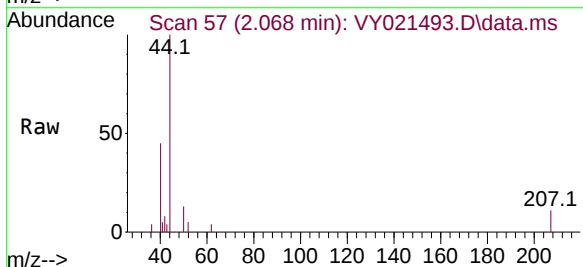
Instrument :
MSVOA_Y
ClientSampleId :
RBR251372

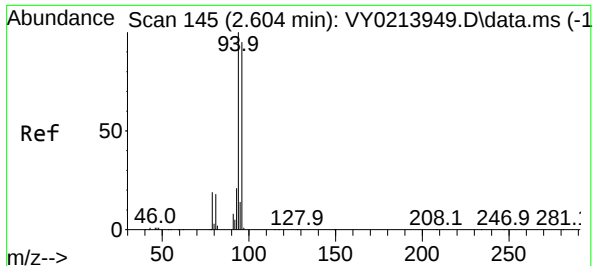
Tgt Ion:168 Resp: 3739
Ion Ratio Lower Upper
168 100
99 58.9 46.0 69.0



#3
Chloromethane
Concen: 2.894 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.006 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

Tgt Ion: 50 Resp: 140
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#

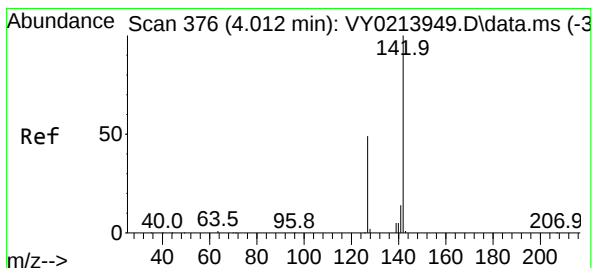
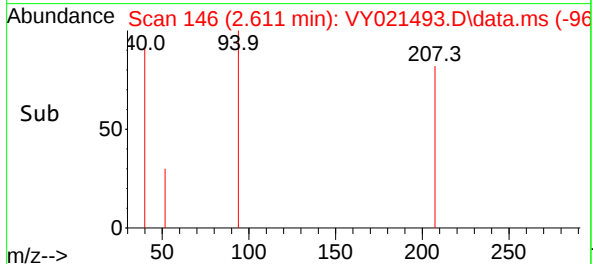
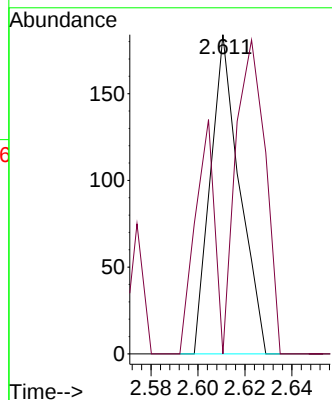
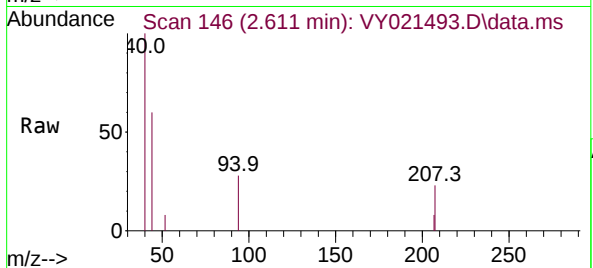




#5
Bromomethane
Concen: 4.135 ug/l
RT: 2.611 min Scan# 145
Delta R.T. 0.006 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

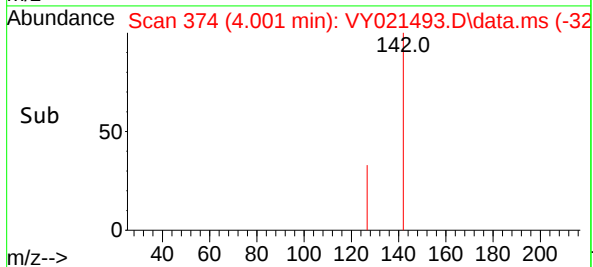
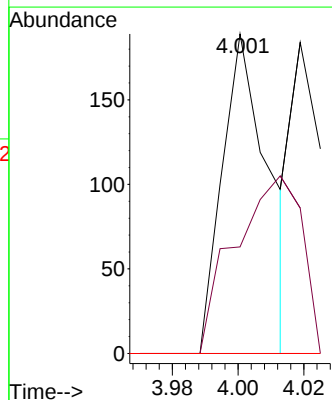
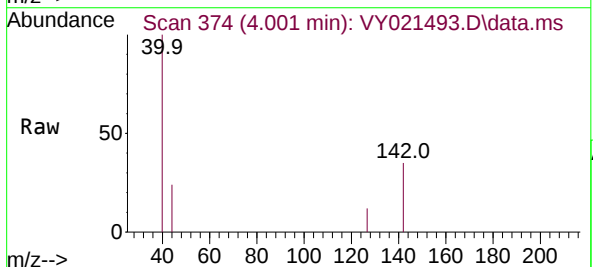
Instrument :
MSVOA_Y
ClientSampleId :
RBR251372

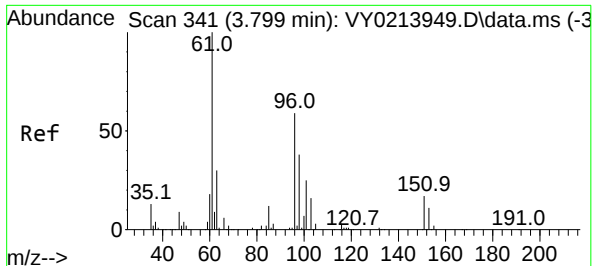
Tgt Ion: 94 Resp: 158
Ion Ratio Lower Upper
94 100
96 0.0 76.3 114.5#



#10
Methyl Iodide
Concen: 4.320 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.012 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

Tgt Ion: 142 Resp: 185
Ion Ratio Lower Upper
142 100
127 80.5 39.1 58.7#
141 0.0 11.8 17.6#





#12

1,1-Dichloroethene

Concen: 1.146 ug/l

RT: 4.055 min Scan# 31

Delta R.T. 0.256 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

RBR251372

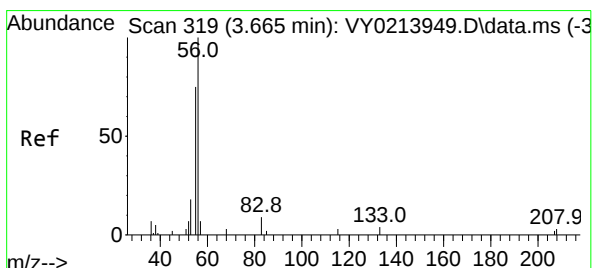
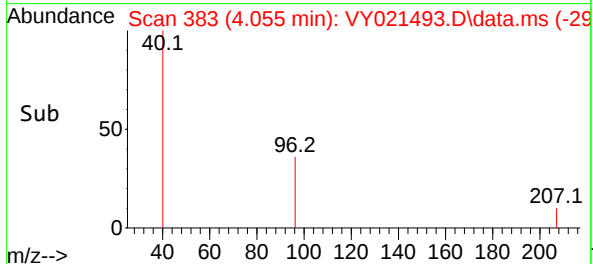
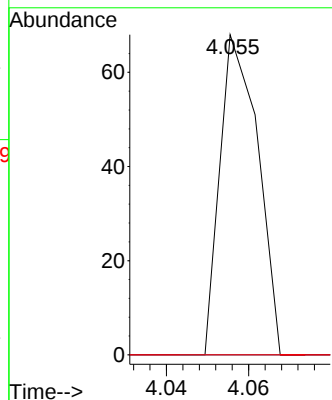
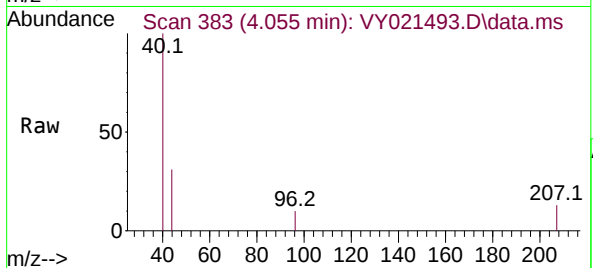
Tgt Ion: 96 Resp: 44

Ion Ratio Lower Upper

96 100

61 0.0 135.2 202.8#

98 0.0 51.4 77.2#



#13

Acrolein

Concen: 10.447 ug/l

RT: 3.866 min Scan# 352

Delta R.T. 0.201 min

Lab File: VY021493.D

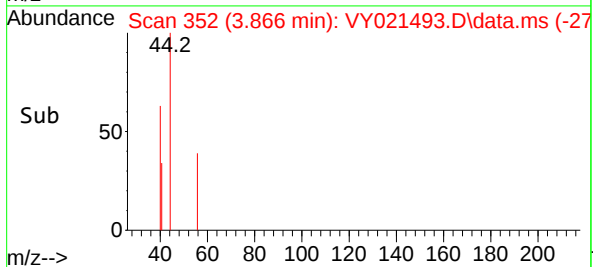
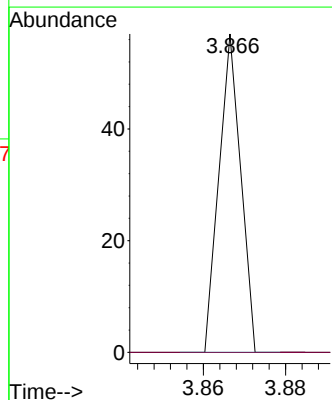
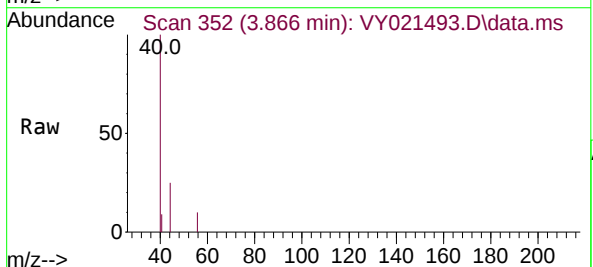
Acq: 11 Mar 2025 17:52

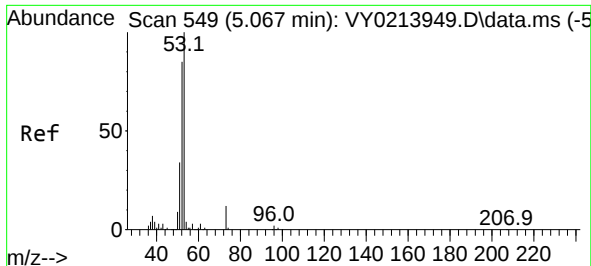
Tgt Ion: 56 Resp: 21

Ion Ratio Lower Upper

56 100

55 0.0 63.4 95.2#

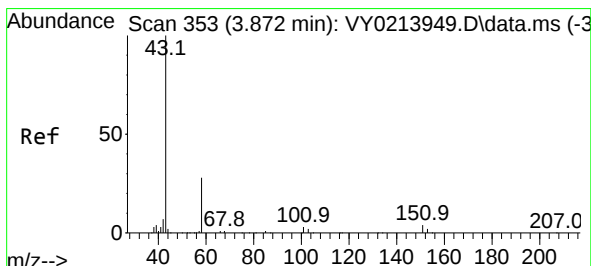
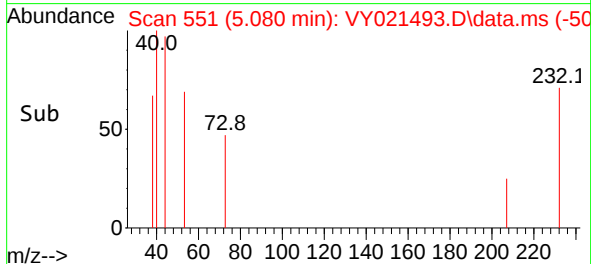
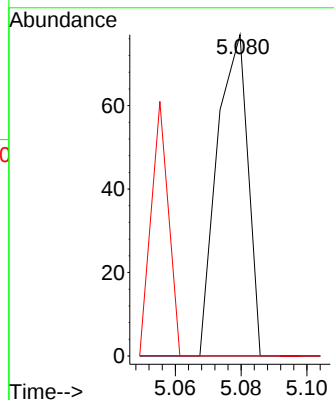
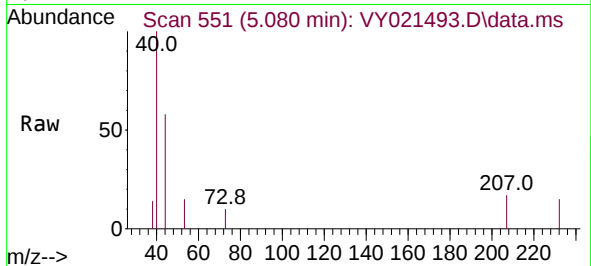




#15
Acrylonitrile
Concen: 5.744 ug/l
RT: 5.080 min Scan# 51
Delta R.T. 0.013 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

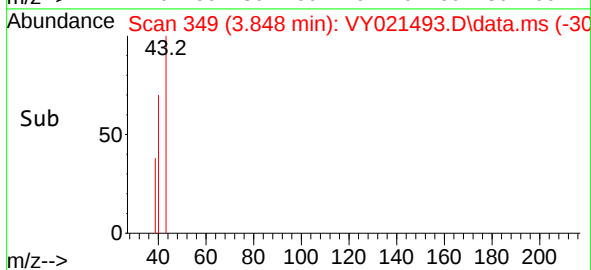
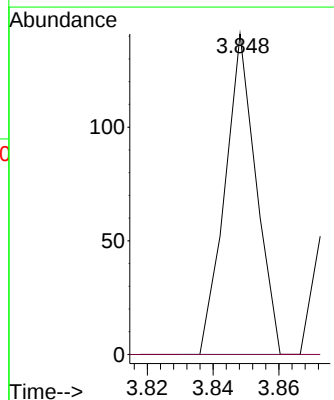
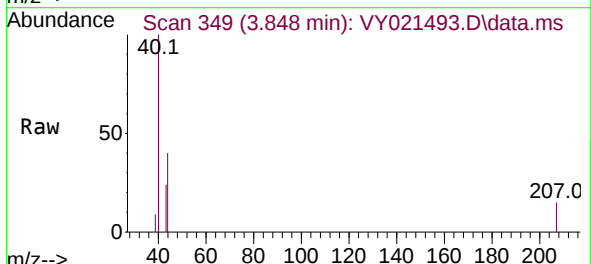
Instrument :
MSVOA_Y
ClientSampleId :
RBR251372

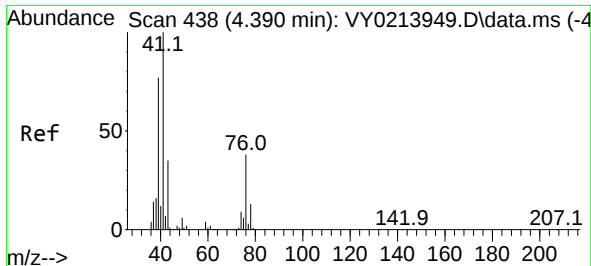
Tgt Ion: 53 Resp: 50
Ion Ratio Lower Upper
53 100
52 0.0 66.3 99.5#
51 0.0 30.3 45.5#



#16
Acetone
Concen: 10.790 ug/l
RT: 3.848 min Scan# 349
Delta R.T. -0.024 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

Tgt Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#





#18

Methyl Acetate

Concen: 2.353 ug/l

RT: 4.379 min Scan# 41

Delta R.T. -0.012 min

Lab File: VY021493.D

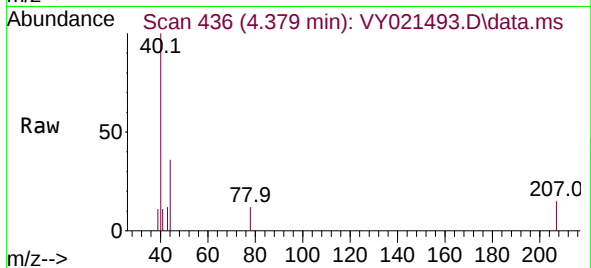
Acq: 11 Mar 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

RBR251372

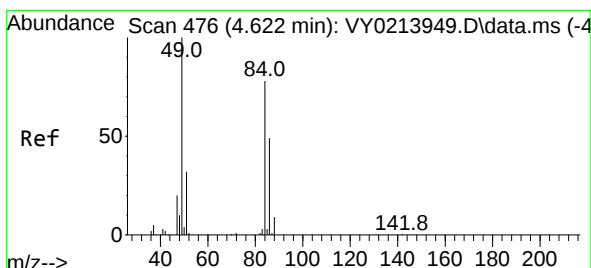
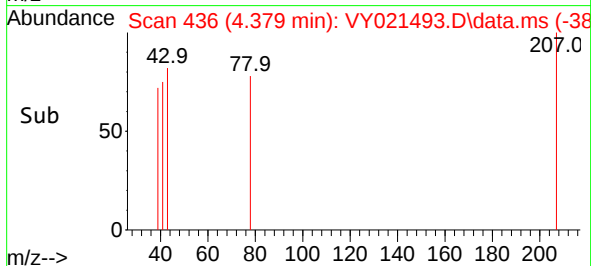
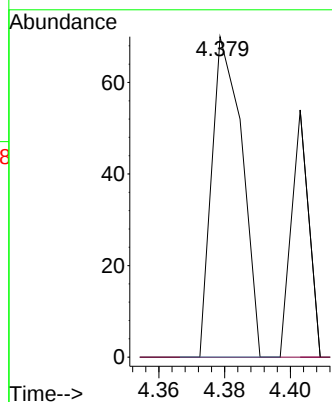


Tgt Ion: 43 Resp: 45

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.0#



#20

Methylene Chloride

Concen: 1.812 ug/l

RT: 4.616 min Scan# 475

Delta R.T. -0.006 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

Tgt Ion: 84 Resp: 82

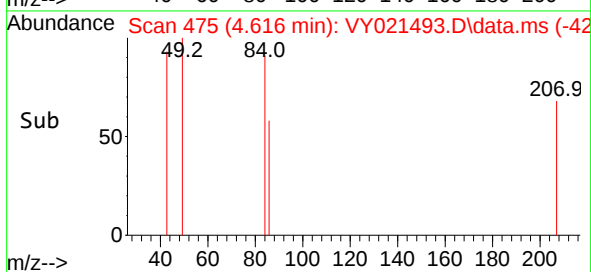
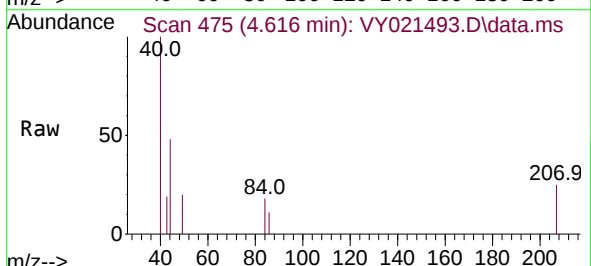
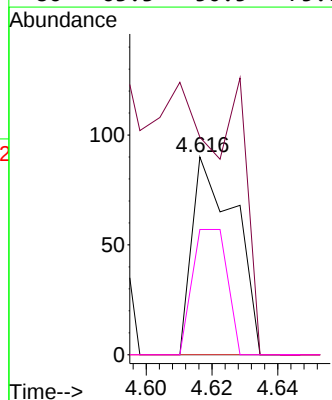
Ion Ratio Lower Upper

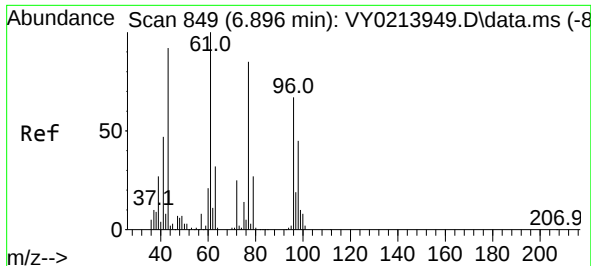
84 100

49 110.0 102.0 153.0

51 0.0 33.0 49.6#

86 63.3 50.5 75.7

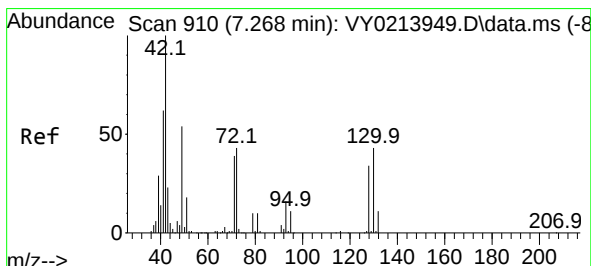
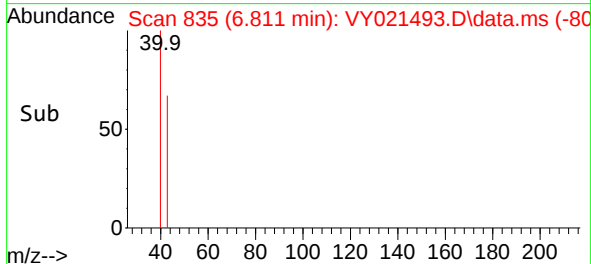
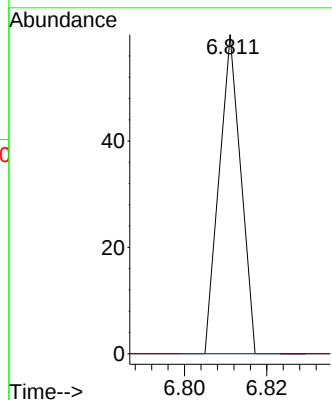
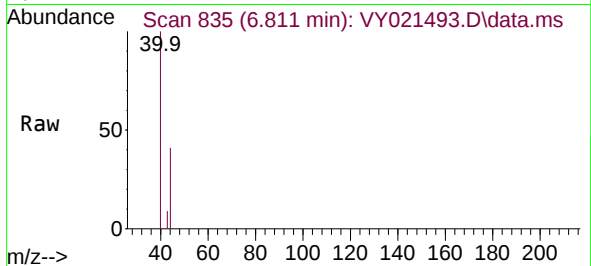




#25
2-Butanone
Concen: 1.845 ug/l
RT: 6.811 min Scan# 811
Delta R.T. -0.085 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

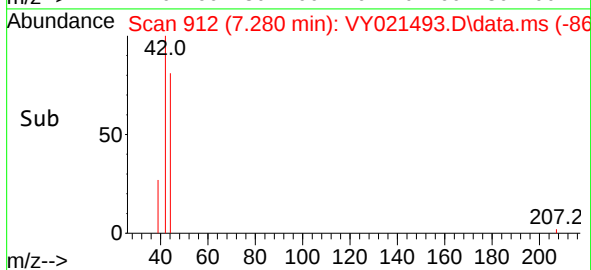
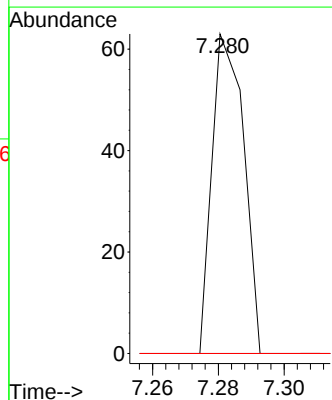
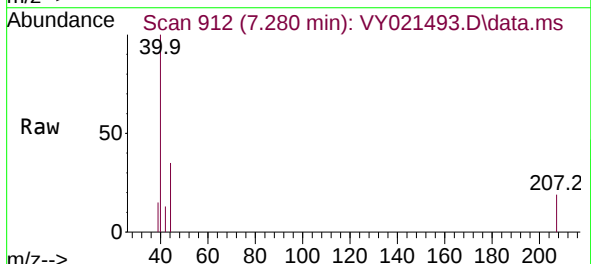
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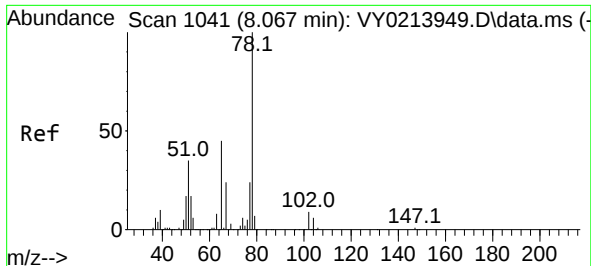
Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.0#



#29
Tetrahydrofuran
Concen: 5.706 ug/l
RT: 7.280 min Scan# 912
Delta R.T. 0.013 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

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





#33

1,2-Dichloroethane-d4

Concen: 84.263 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

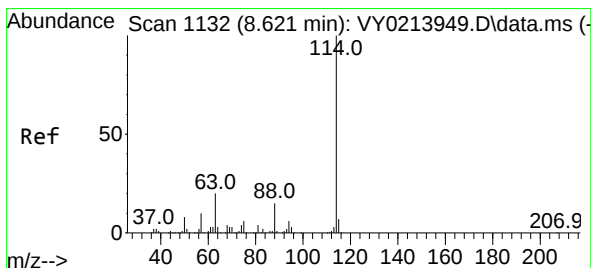
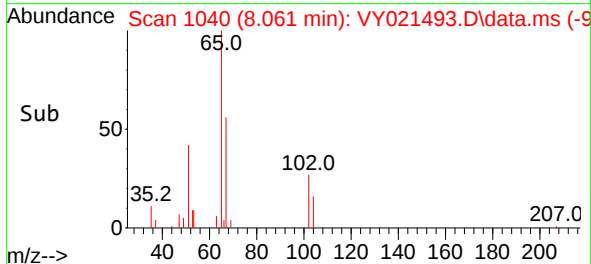
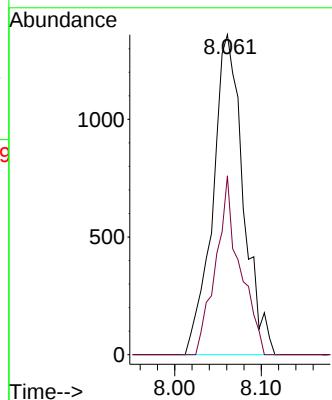
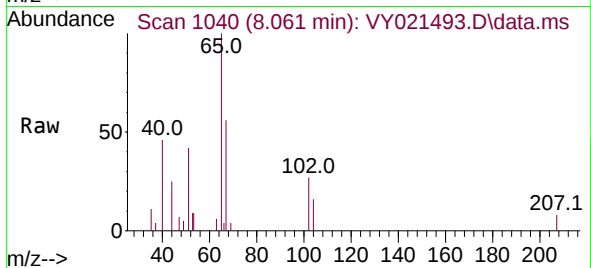
RBR251372

Tgt Ion: 65 Resp: 3330

Ion Ratio Lower Upper

65 100

67 44.0 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

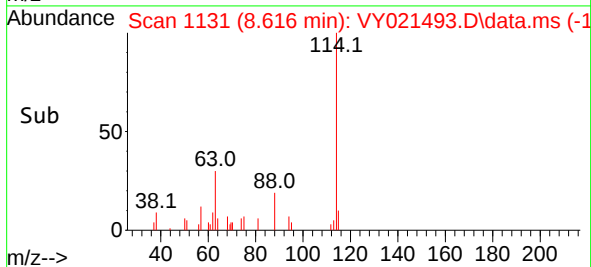
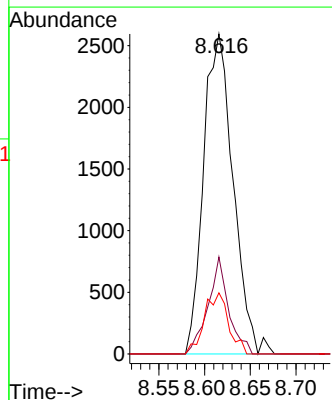
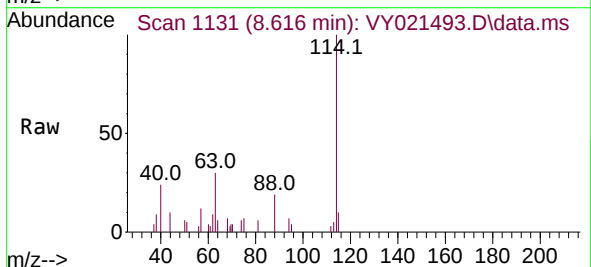
Tgt Ion: 114 Resp: 5849

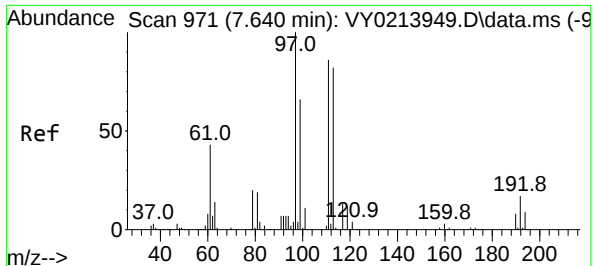
Ion Ratio Lower Upper

114 100

63 30.3 0.0 40.8

88 19.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.133 ug/l

RT: 7.628 min Scan# 9

Delta R.T. -0.012 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

RBR251372

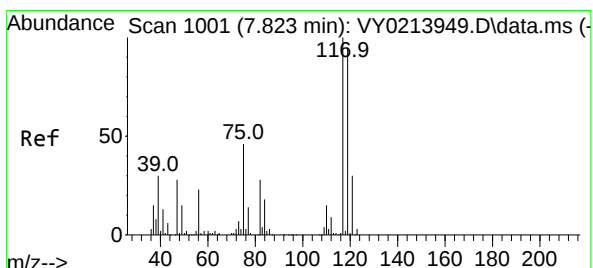
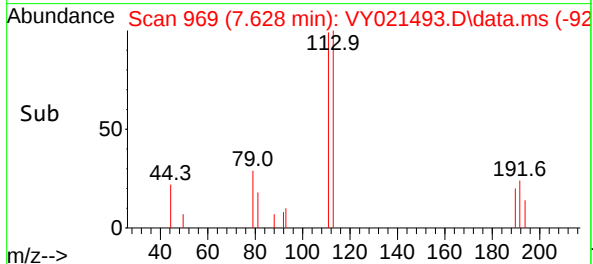
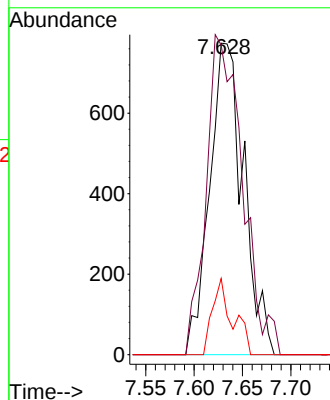
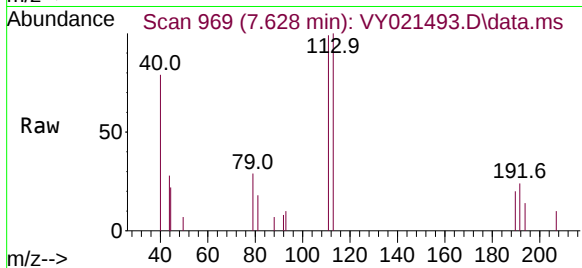
Tgt Ion:113 Resp: 1889

Ion Ratio Lower Upper

113 100

111 109.8 82.0 123.0

192 14.5 15.9 23.9#



#38

Carbon Tetrachloride

Concen: 3.699 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.109 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

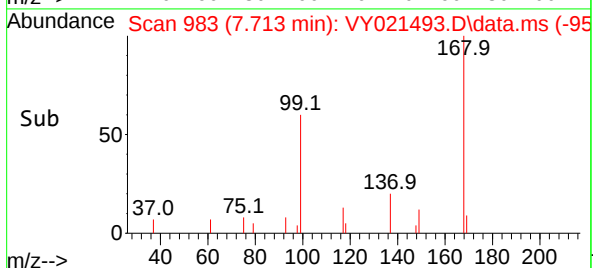
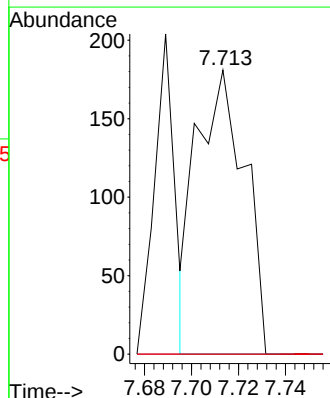
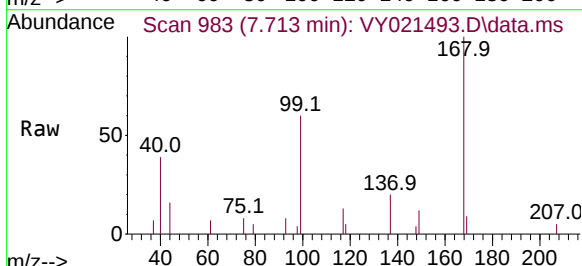
Tgt Ion:117 Resp: 256

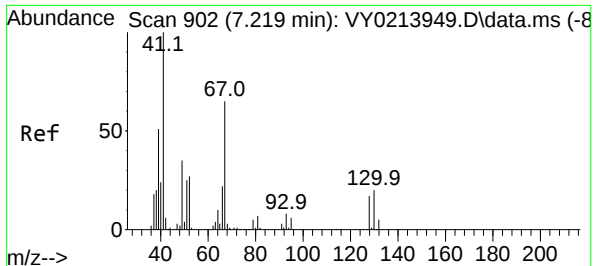
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#

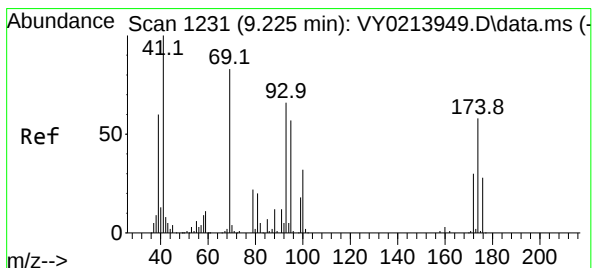
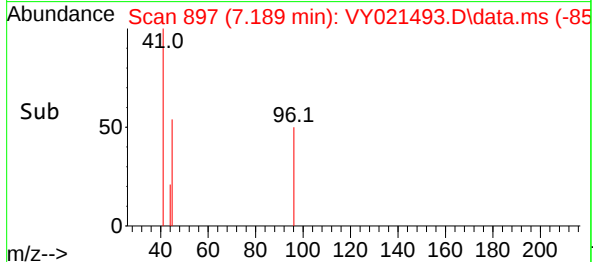
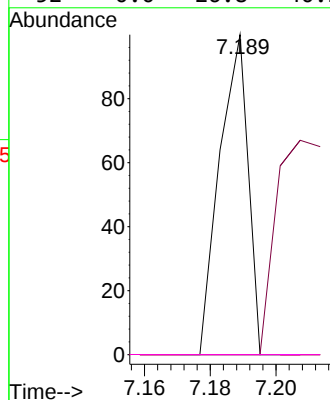
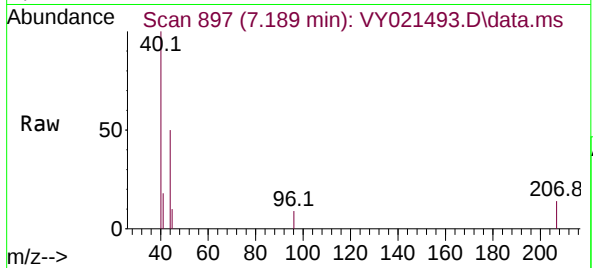




#41
Methacrylonitrile
Concen: 4.143 ug/l
RT: 7.189 min Scan# 897
Delta R.T. -0.030 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

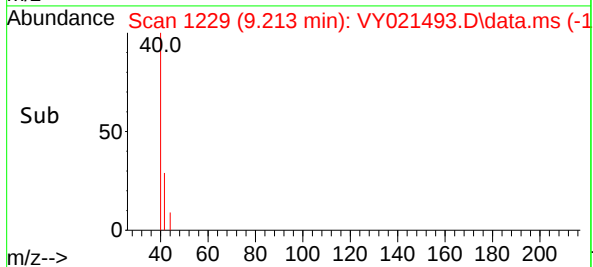
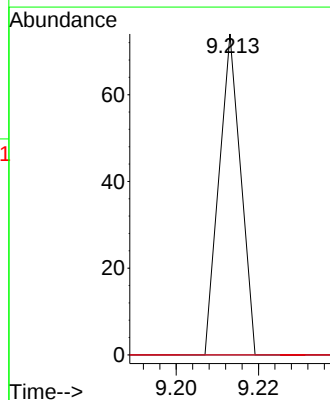
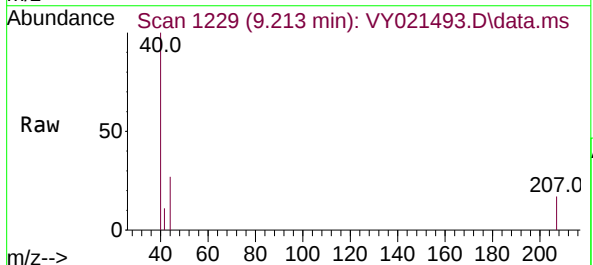
Instrument :
MSVOA_Y
ClientSampleId :
RBR251372

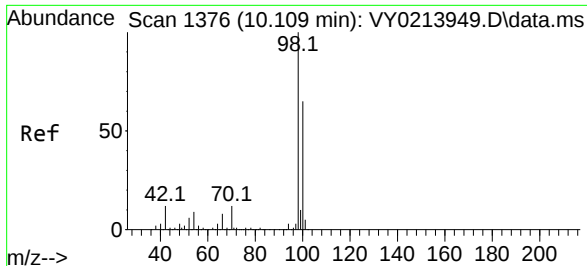
Tgt Ion:	41	Resp:	60
Ion	Ratio	Lower	Upper
41	100		
39	116.7	35.0	52.6#
67	0.0	61.2	91.8#
52	0.0	26.8	40.2#



#48
Methyl methacrylate
Concen: 1.139 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. -0.012 min
Lab File: VY021493.D
Acq: 11 Mar 2025 17:52

Tgt Ion:	41	Resp:	27
Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.8	101.8#
39	0.0	46.4	69.6#





#50

Toluene-d8

Concen: 40.056 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

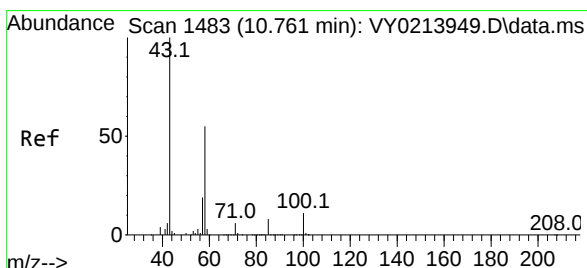
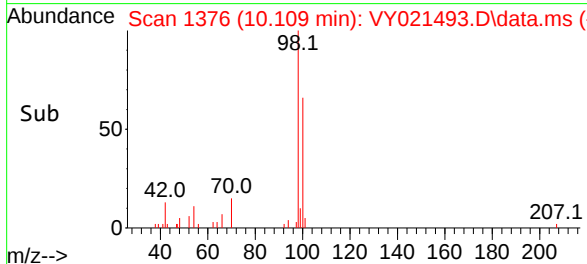
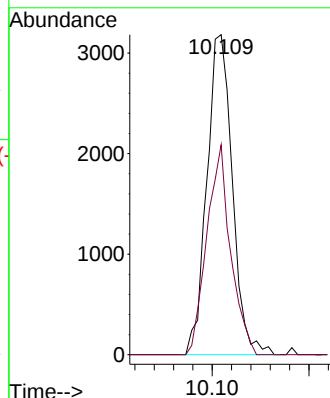
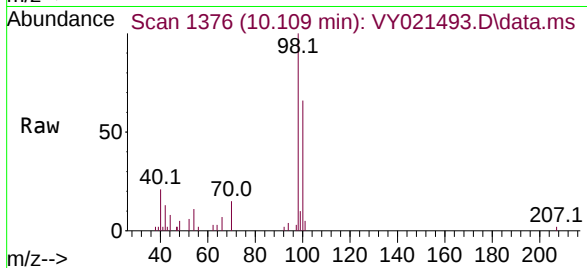
RBR251372

Tgt Ion: 98 Resp: 5831

Ion Ratio Lower Upper

98 100

100 61.2 52.1 78.1



#59

2-Hexanone

Concen: 1.703 ug/l

RT: 10.713 min Scan# 1475

Delta R.T. -0.048 min

Lab File: VY021493.D

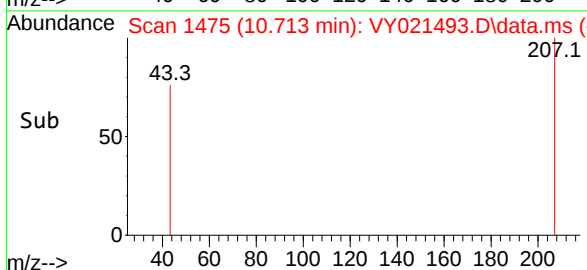
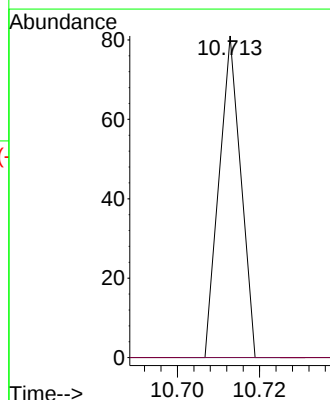
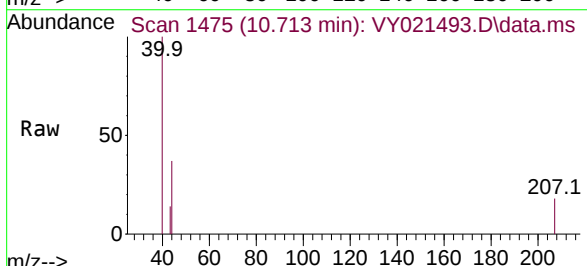
Acq: 11 Mar 2025 17:52

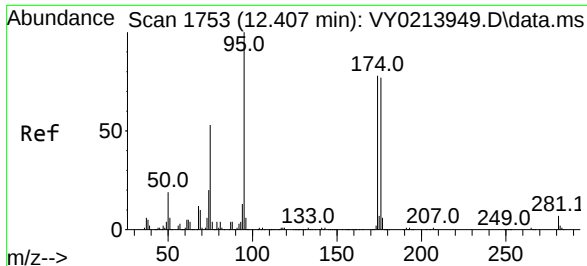
Tgt Ion: 43 Resp: 30

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#





#62

4-Bromofluorobenzene

Concen: 12.723 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

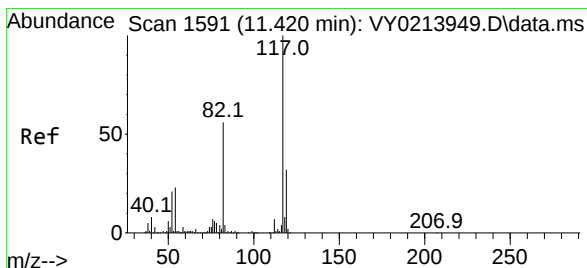
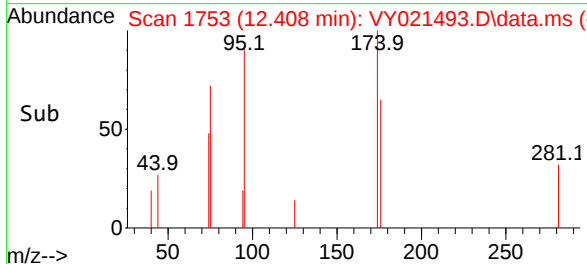
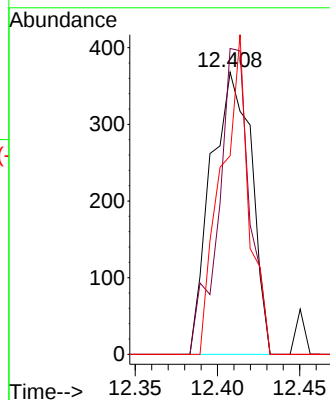
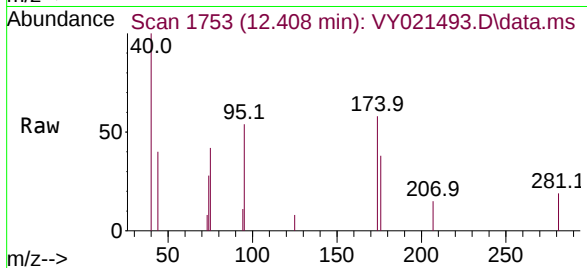
Instrument :

MSVOA_Y

ClientSampleId :

RBR251372

Tgt Ion: 95	Resp: 630
Ion Ratio	Lower Upper
95	100
174	83.8 0.0 165.0
176	76.7 0.0 160.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

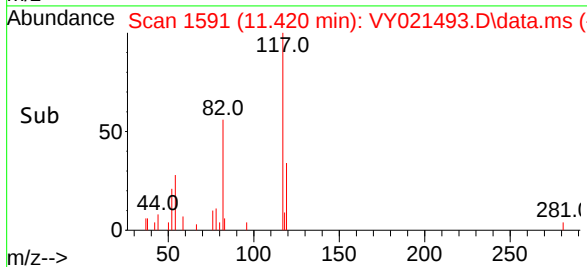
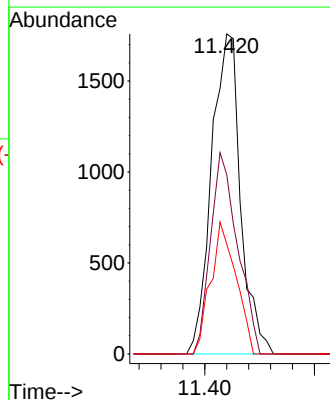
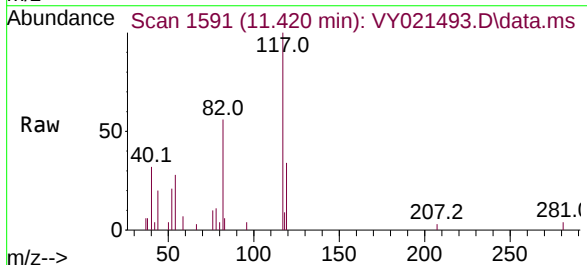
RT: 11.420 min Scan# 1591

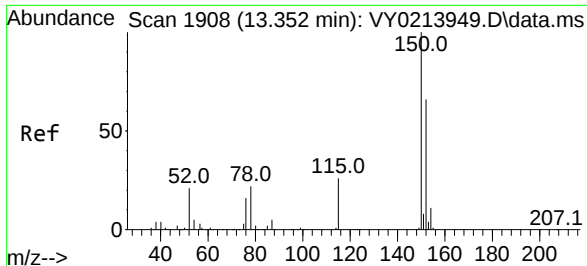
Delta R.T. 0.000 min

Lab File: VY021493.D

Acq: 11 Mar 2025 17:52

Tgt Ion: 117	Resp: 3234
Ion Ratio	Lower Upper
117	100
82	56.0 44.6 67.0
119	34.3 25.4 38.0

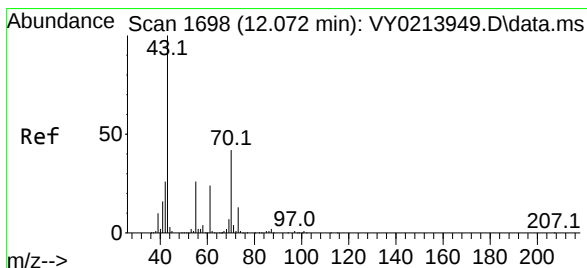
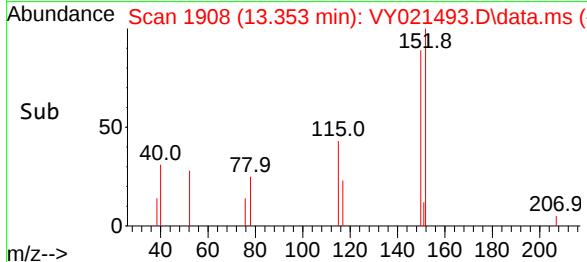
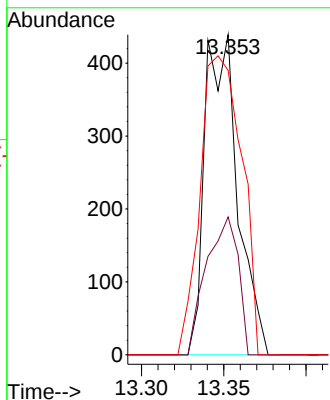
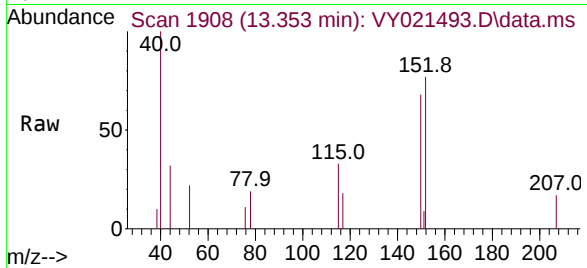




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.353 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VY021493.D
 Acq: 11 Mar 2025 17:52

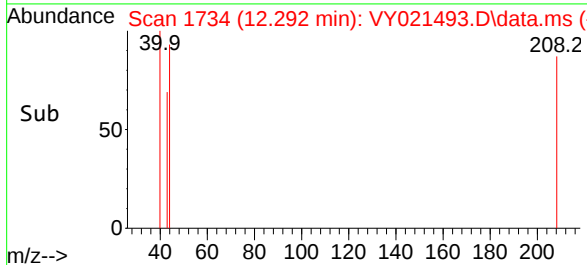
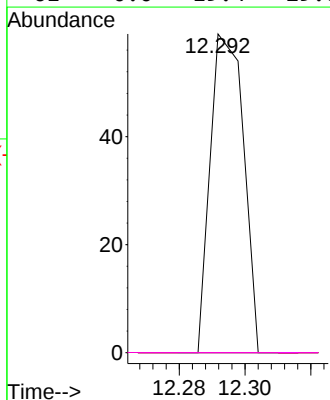
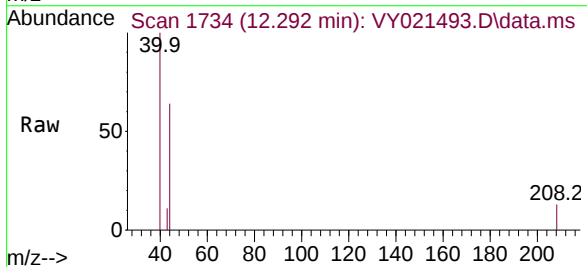
Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR251372

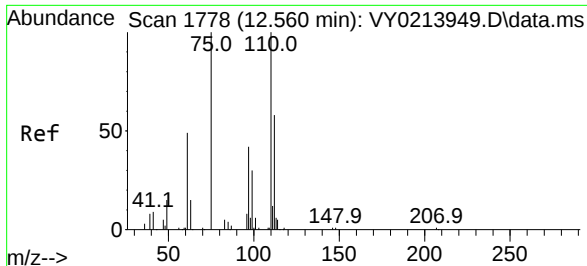
Tgt Ion:152 Resp: 611
 Ion Ratio Lower Upper
 152 100
 115 41.7 29.0 87.0
 150 118.0 0.0 347.2



#74
 N-ethyl acetate
 Concen: 3.922 ug/l
 RT: 12.292 min Scan# 1734
 Delta R.T. 0.220 min
 Lab File: VY021493.D
 Acq: 11 Mar 2025 17:52

Tgt Ion: 43 Resp: 41
 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#

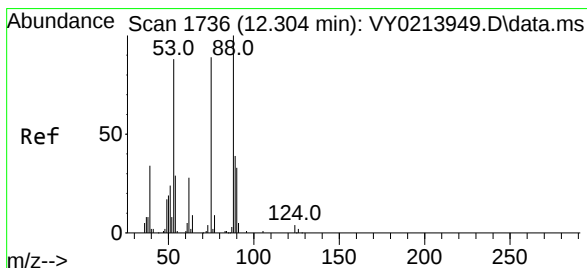
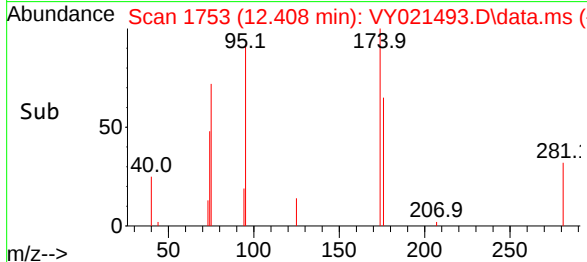
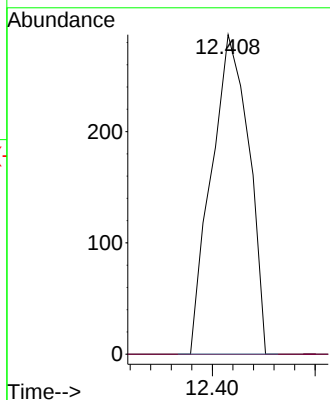
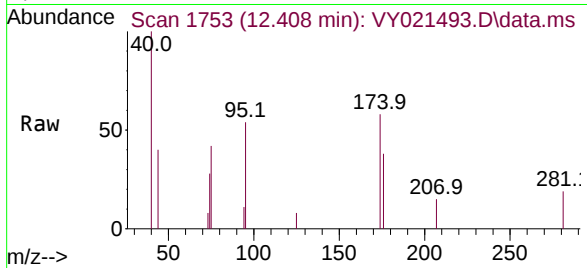




#76
 1,2,3-Trichloropropane
 Concen: 58.958 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.152 min
 Lab File: VY021493.D
 Acq: 11 Mar 2025 17:52

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR251372

Tgt Ion: 75 Resp: 363
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 134.029 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.104 min
 Lab File: VY021493.D
 Acq: 11 Mar 2025 17:52

Tgt Ion: 75 Resp: 363
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.4#
 89 0.0 36.9 55.3#

