

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
 Data File : VY021448.D
 Acq On : 06 Mar 2025 20:30
 Operator : SY/MD
 Sample : Q1463-10
 Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 T10

Quant Time: Mar 07 00:43:18 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)

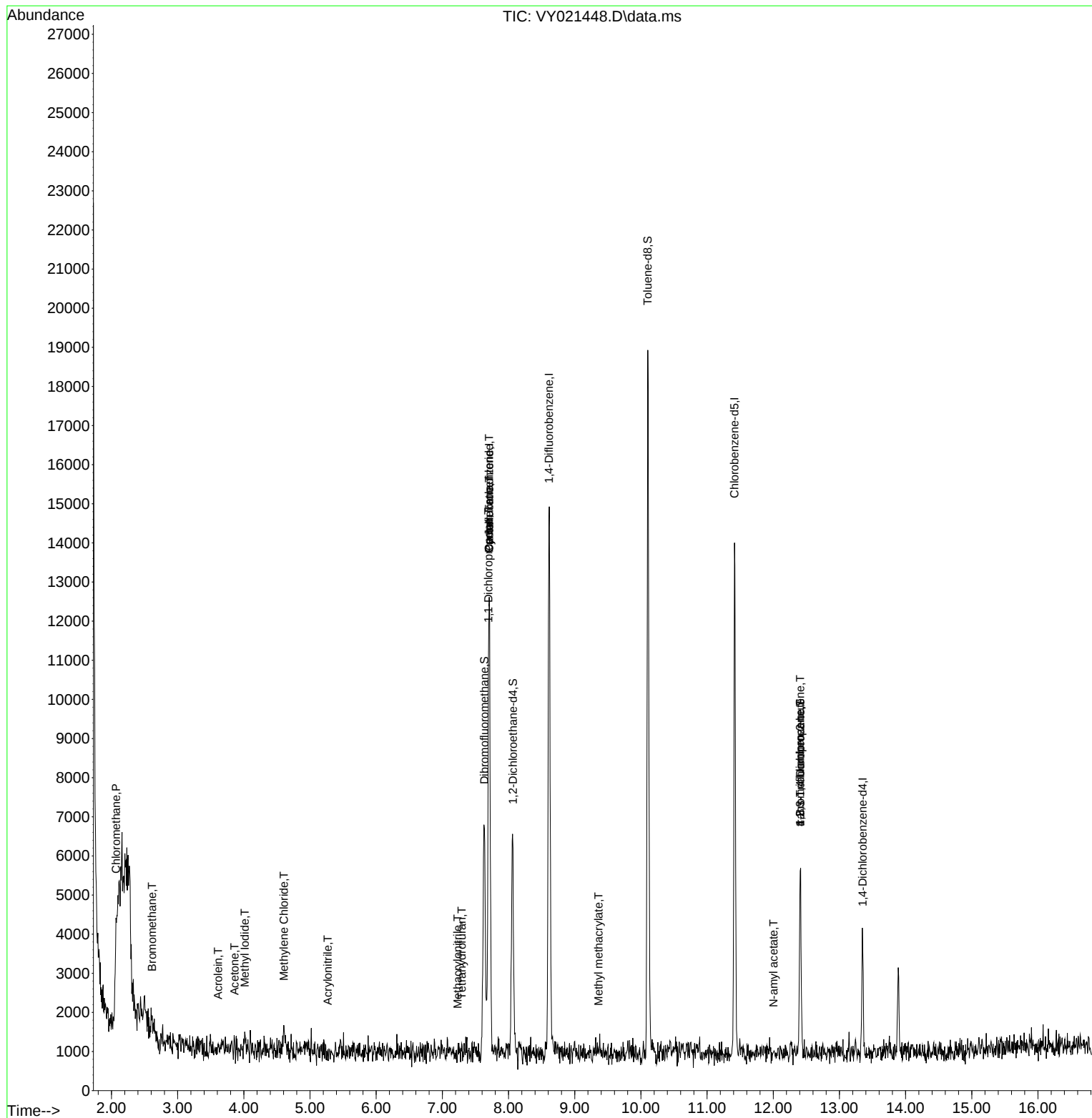
Internal Standards						
1) Pentafluorobenzene	7.707	168	8861	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	11284	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.414	117	6680	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	917	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	4447	47.483	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.960%
35) Dibromofluoromethane	7.634	113	4149	55.938	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	111.880%
50) Toluene-d8	10.103	98	11213	39.927	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	79.860%
62) 4-Bromofluorobenzene	12.408	95	1598	16.728	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	33.460%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	319	2.783	ug/l #	53
5) Bromomethane	2.611	94	156	1.723	ug/l	92
10) Methyl Iodide	4.013	142	273	2.690	ug/l #	62
11) Tert butyl alcohol	4.653	59	24	Below Cal	#	72
13) Acrolein	3.611	56	25	5.248	ug/l #	10
15) Acrylonitrile	5.269	53	26	1.260	ug/l #	17
16) Acetone	3.860	43	116	5.679	ug/l #	47
20) Methylene Chloride	4.604	84	282	2.630	ug/l #	55
29) Tetrahydrofuran	7.293	42	99	5.675	ug/l #	33
31) Cyclohexane	7.707	56	177	1.009	ug/l #	67
36) 1,1-Dichloropropene	7.695	75	891	7.674	ug/l #	41
38) Carbon Tetrachloride	7.707	117	899	6.733	ug/l #	12
41) Methacrylonitrile	7.232	41	92	3.293	ug/l #	33
48) Methyl methacrylate	9.360	41	59	1.290	ug/l #	11
74) N-amyl acetate	12.005	43	25	1.594	ug/l #	42
76) 1,2,3-Trichloropropane	12.408	75	921	99.670	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	921	226.582	ug/l #	9

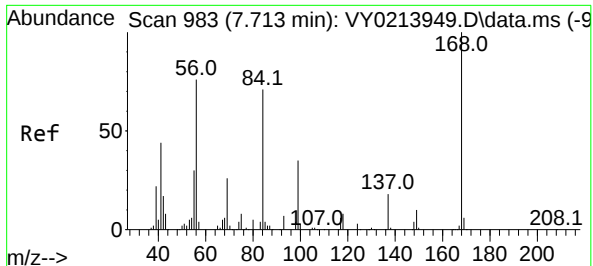
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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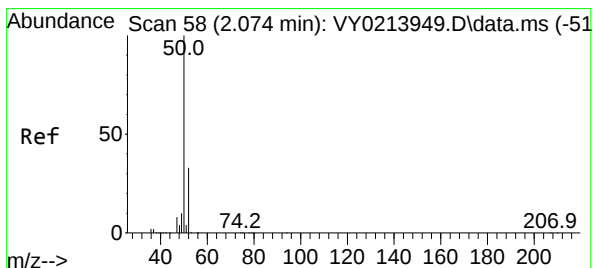
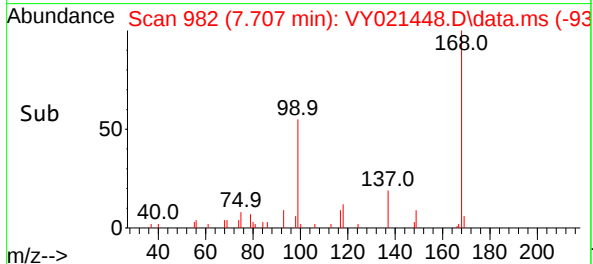
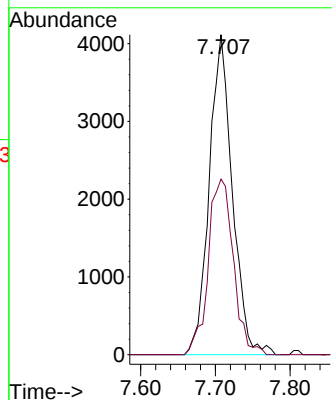
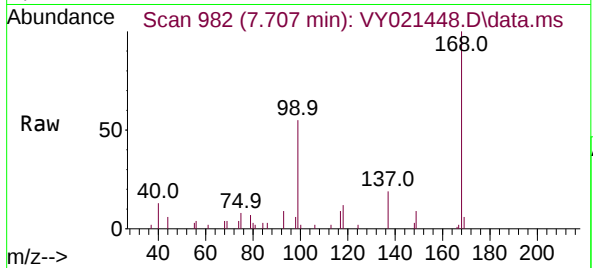




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

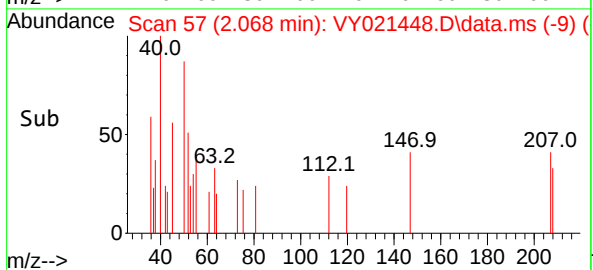
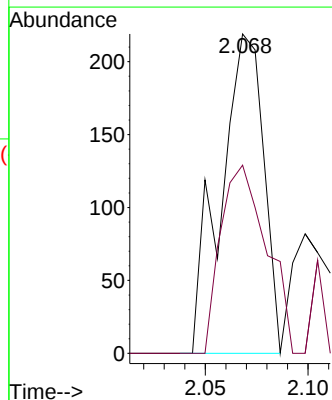
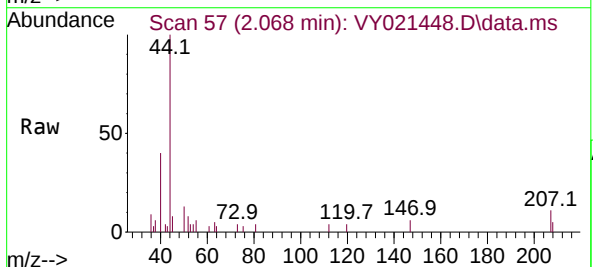
Instrument :
MSVOA_Y
ClientSampleId :
T10

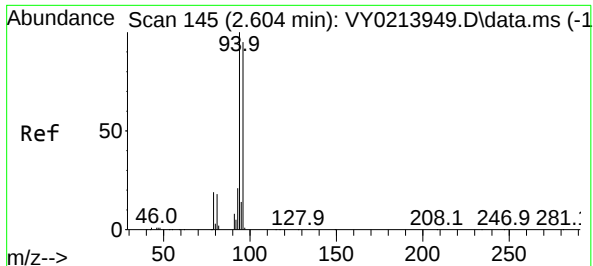
Tgt Ion:168 Resp: 8861
Ion Ratio Lower Upper
168 100
99 54.8 46.0 69.0



#3
Chloromethane
Concen: 2.783 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.006 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

Tgt Ion: 50 Resp: 319
Ion Ratio Lower Upper
50 100
52 58.9 26.2 39.2#

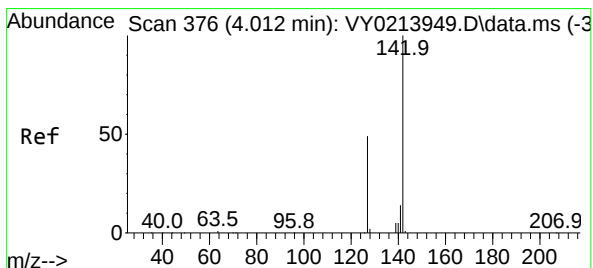
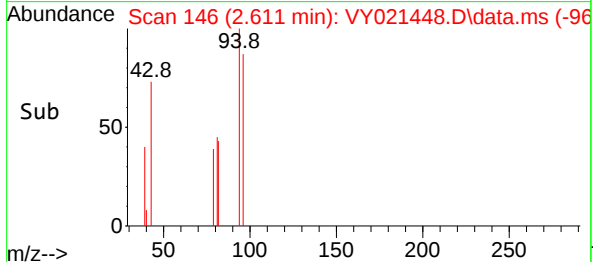
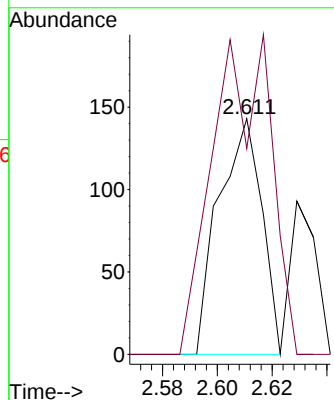
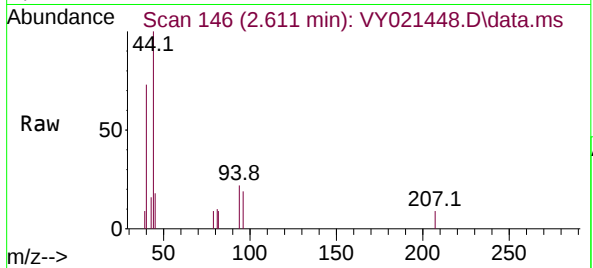




#5
Bromomethane
Concen: 1.723 ug/l
RT: 2.611 min Scan# 145
Delta R.T. 0.007 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

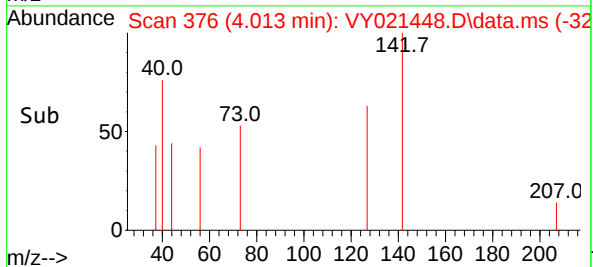
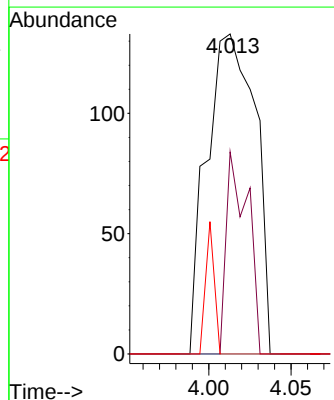
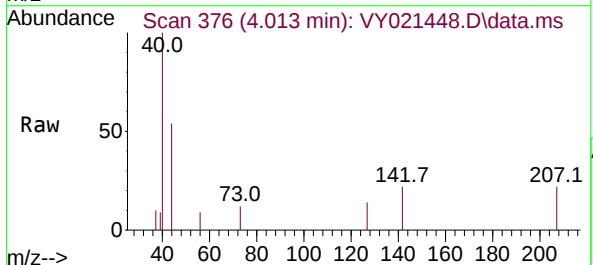
Instrument :
MSVOA_Y
ClientSampleId :
T10

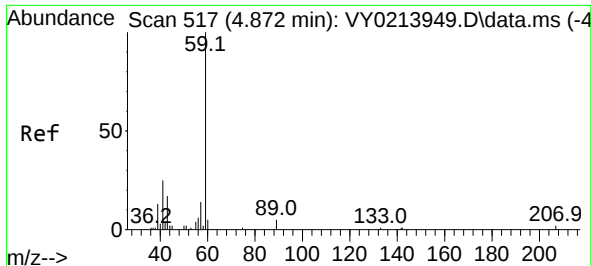
Tgt Ion: 94 Resp: 156
Ion Ratio Lower Upper
94 100
96 87.4 76.3 114.5



#10
Methyl Iodide
Concen: 2.690 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

Tgt Ion:142 Resp: 273
Ion Ratio Lower Upper
142 100
127 19.0 39.1 58.7#
141 7.3 11.8 17.6#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.653 min Scan# 41

Delta R.T. -0.219 min

Lab File: VY021448.D

Acq: 06 Mar 2025 20:30

Instrument :

MSVOA_Y

ClientSampleId :

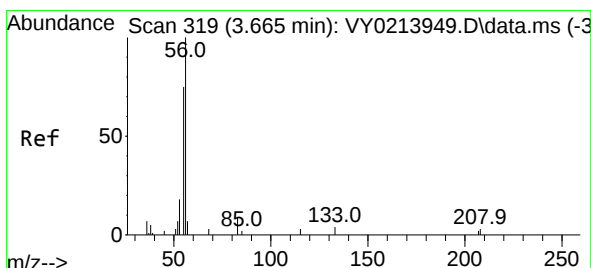
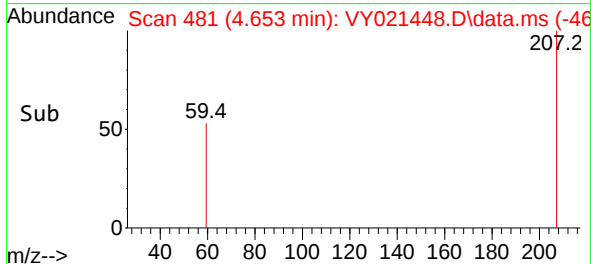
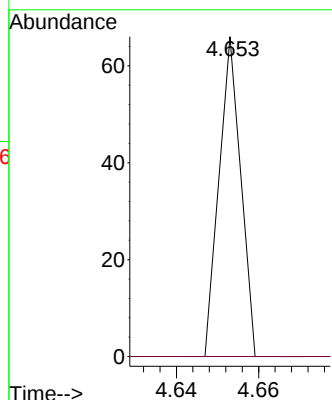
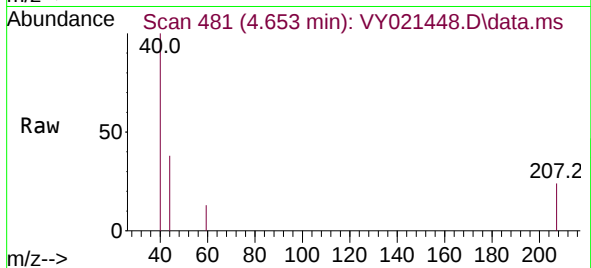
T10

Tgt Ion: 59 Resp: 24

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: 5.248 ug/l

RT: 3.611 min Scan# 310

Delta R.T. -0.054 min

Lab File: VY021448.D

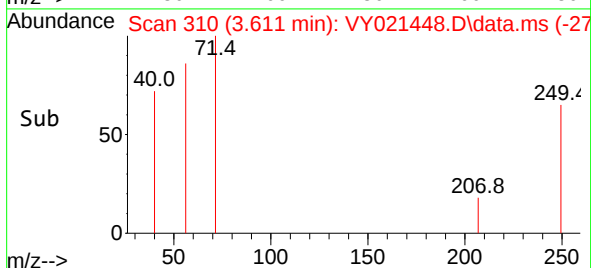
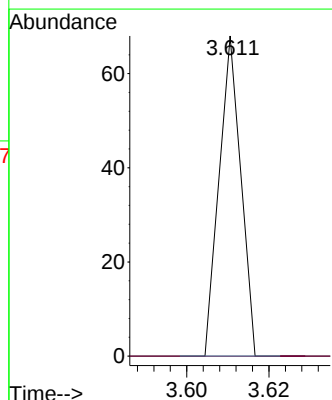
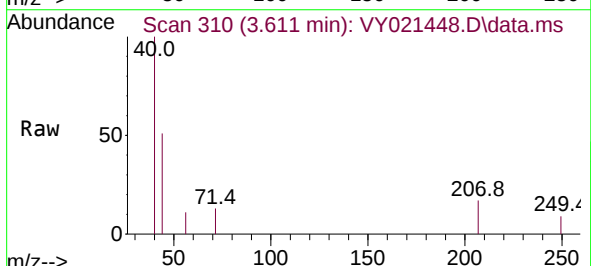
Acq: 06 Mar 2025 20:30

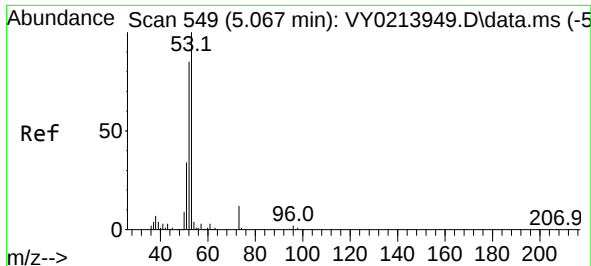
Tgt Ion: 56 Resp: 25

Ion Ratio Lower Upper

56 100

55 0.0 63.4 95.2#

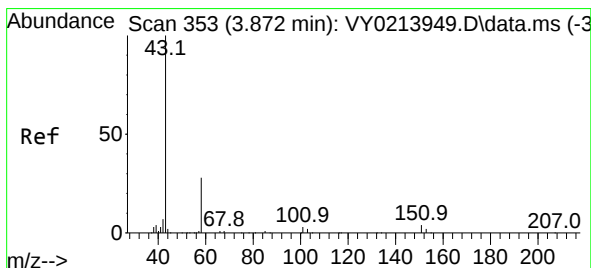
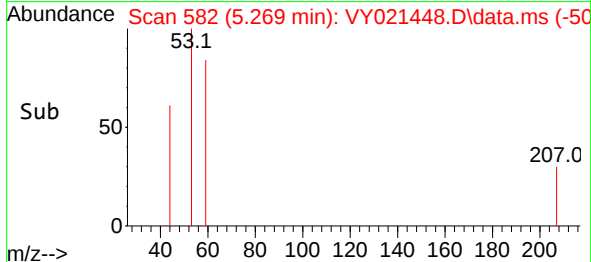
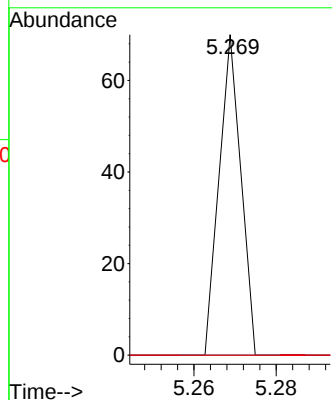
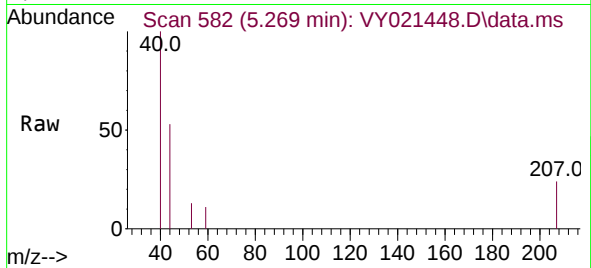




#15
Acrylonitrile
Concen: 1.260 ug/l
RT: 5.269 min Scan# 51
Delta R.T. 0.202 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

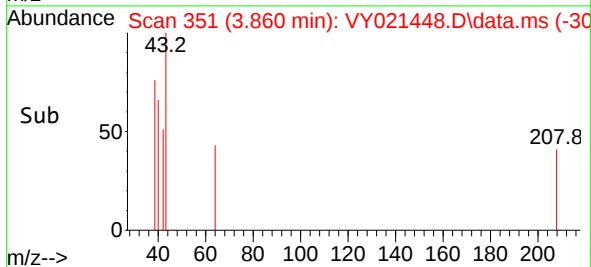
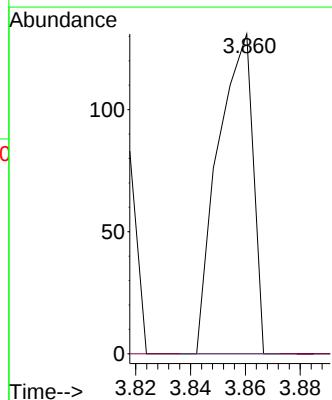
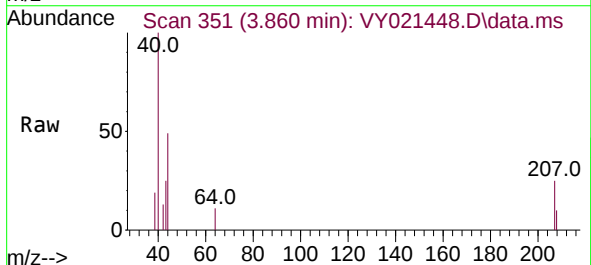
Instrument :
MSVOA_Y
ClientSampleId :
T10

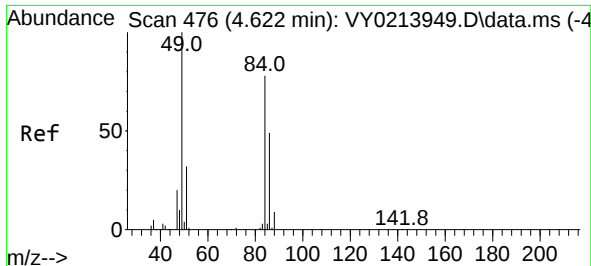
Tgt Ion: 53 Resp: 26
Ion Ratio Lower Upper
53 100
52 0.0 66.3 99.5#
51 0.0 30.3 45.5#



#16
Acetone
Concen: 5.679 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.012 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

Tgt Ion: 43 Resp: 116
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#

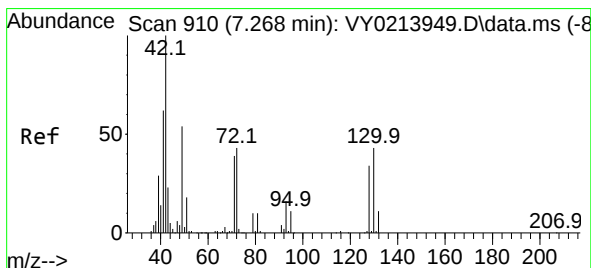
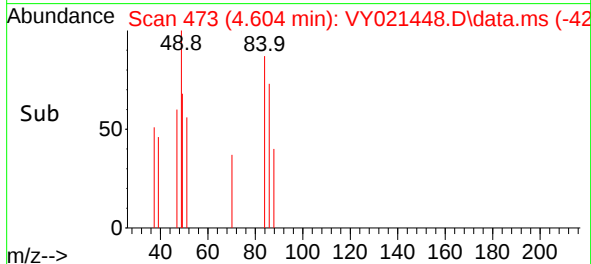
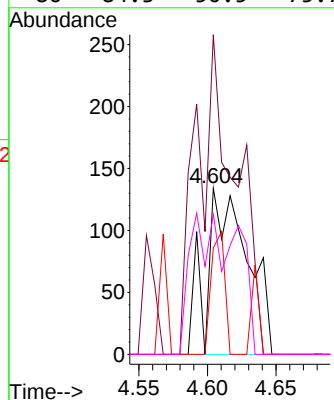
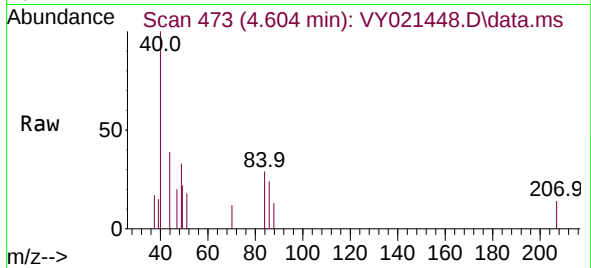




#20
Methylene Chloride
Concen: 2.630 ug/l
RT: 4.604 min Scan# 41
Delta R.T. -0.018 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

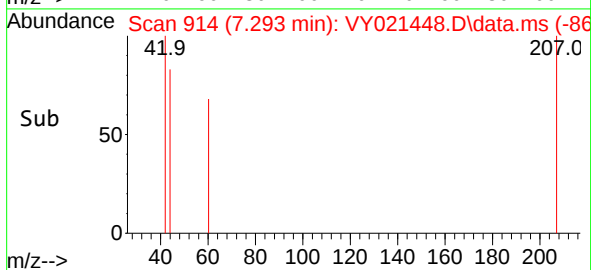
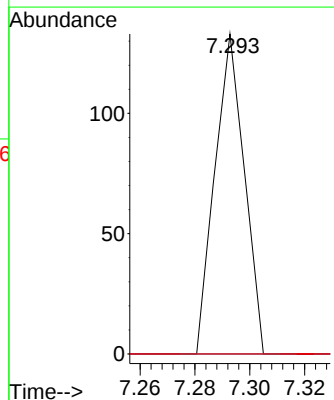
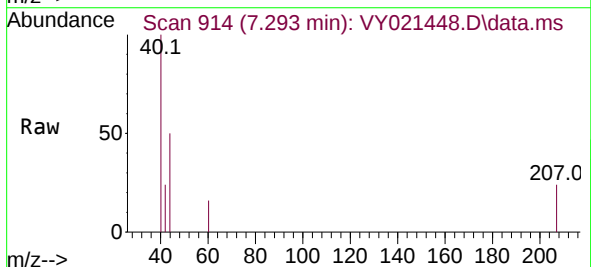
Instrument :
MSVOA_Y
ClientSampleId :
T10

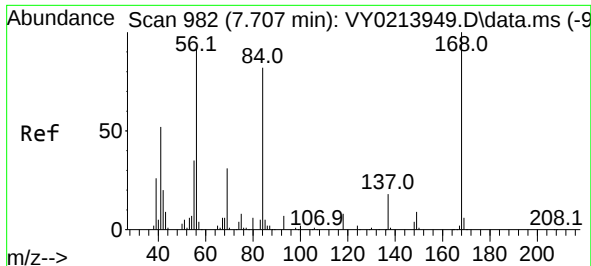
Tgt Ion:	84	Resp:	282
Ion	Ratio	Lower	Upper
84	100		
49	192.5	102.0	153.0#
51	64.2	33.0	49.6#
86	84.3	50.5	75.7#



#29
Tetrahydrofuran
Concen: 5.675 ug/l
RT: 7.293 min Scan# 914
Delta R.T. 0.025 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

Tgt Ion:	42	Resp:	99
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.8	52.2#
71	0.0	32.6	48.8#





#31

Cyclohexane

Concen: 1.009 ug/l

RT: 7.707 min Scan# 9

Delta R.T. 0.000 min

Lab File: VY021448.D

Acq: 06 Mar 2025 20:30

Instrument :

MSVOA_Y

ClientSampleId :

T10

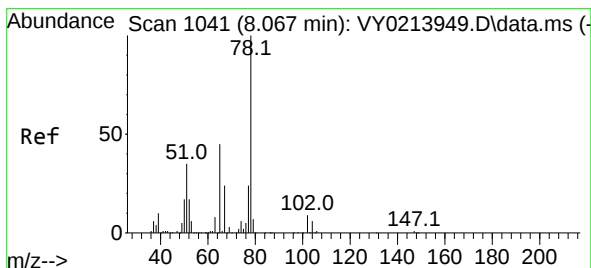
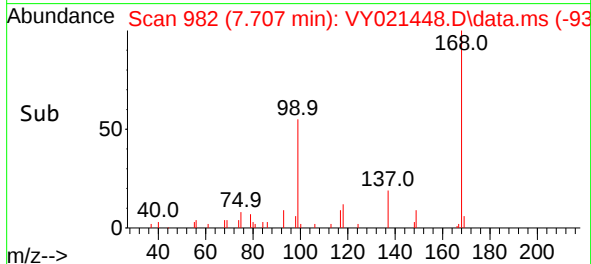
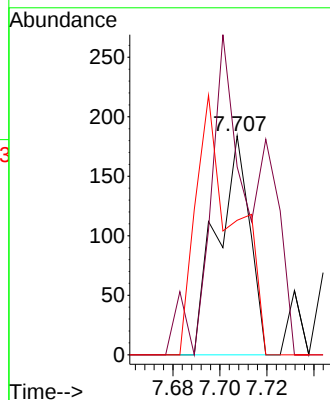
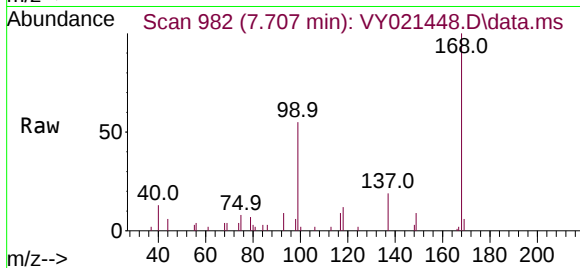
Tgt Ion: 56 Resp: 177

Ion Ratio Lower Upper

56 100

69 57.1 27.0 40.4#

84 61.4 71.1 106.7#



#33

1,2-Dichloroethane-d4

Concen: 47.483 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VY021448.D

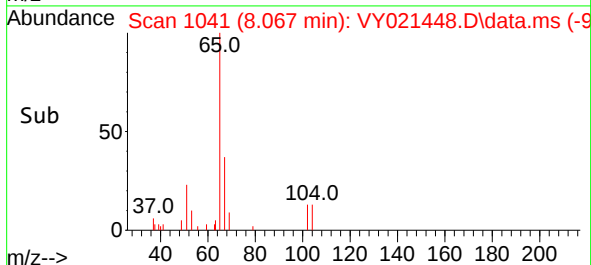
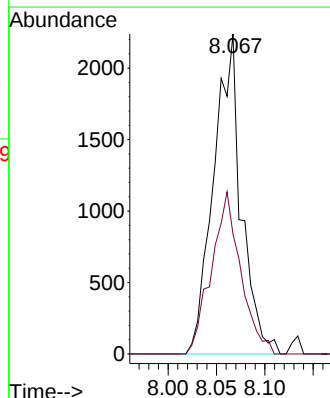
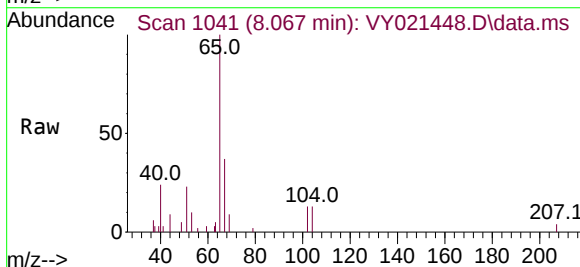
Acq: 06 Mar 2025 20:30

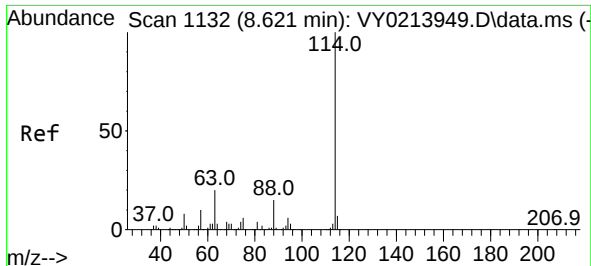
Tgt Ion: 65 Resp: 4447

Ion Ratio Lower Upper

65 100

67 53.7 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1132

Delta R.T. -0.012 min

Lab File: VY021448.D

Acq: 06 Mar 2025 20:30

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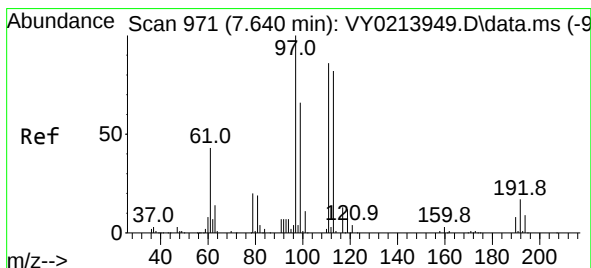
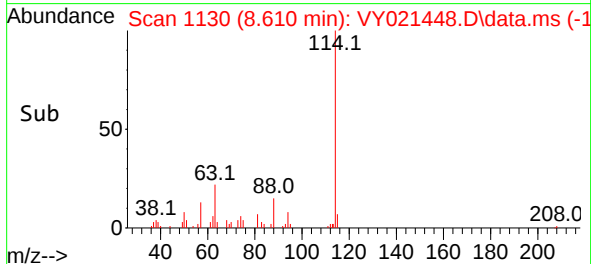
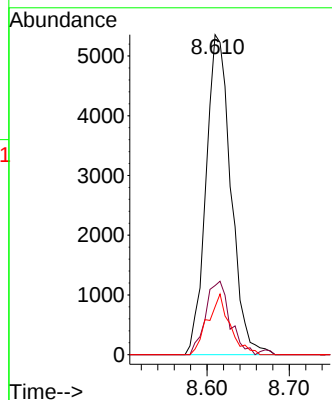
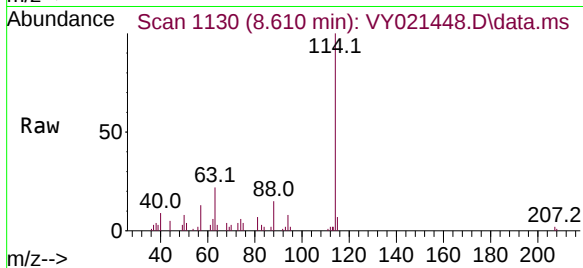
Tgt Ion:114 Resp: 11284

Ion Ratio Lower Upper

114 100

63 21.6 0.0 40.8

88 15.0 0.0 30.8



#35

Dibromofluoromethane

Concen: 55.938 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021448.D

Acq: 06 Mar 2025 20:30

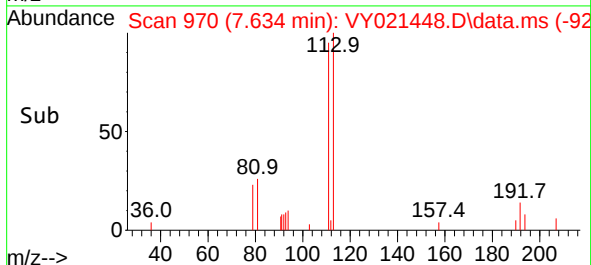
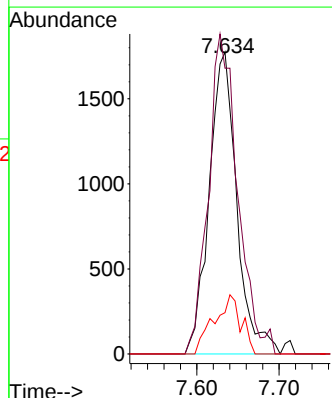
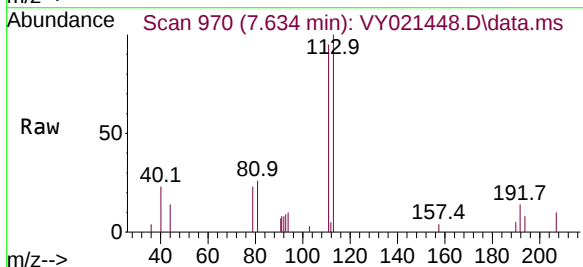
Tgt Ion:113 Resp: 4149

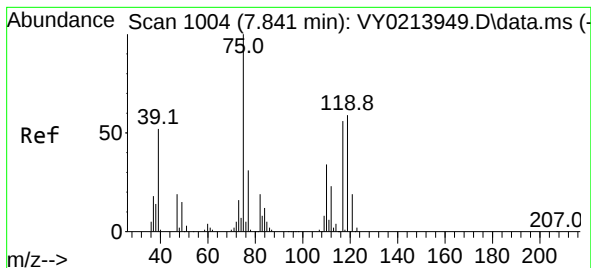
Ion Ratio Lower Upper

113 100

111 112.6 82.0 123.0

192 19.1 15.9 23.9





#36

1,1-Dichloropropene

Concen: 7.674 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.146 min

Lab File: VY021448.D

Acq: 06 Mar 2025 20:30

Instrument :

MSVOA_Y

ClientSampleId :

T10

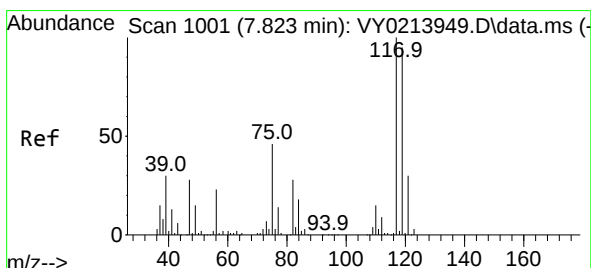
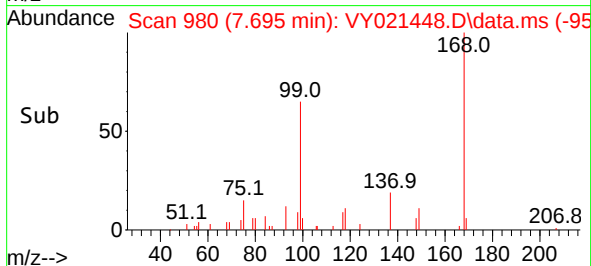
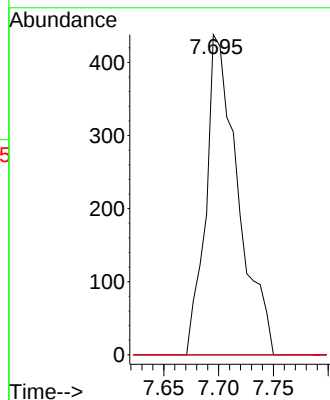
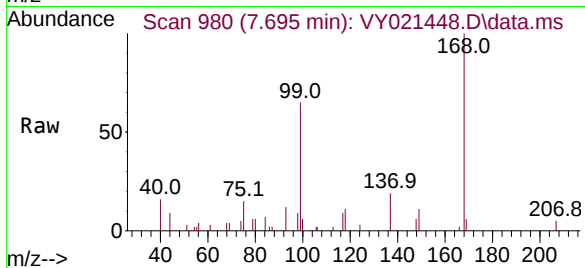
Tgt Ion: 75 Resp: 891

Ion Ratio Lower Upper

75 100

110 0.0 17.3 51.7#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 6.733 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.115 min

Lab File: VY021448.D

Acq: 06 Mar 2025 20:30

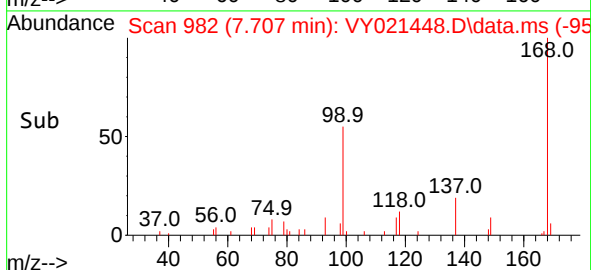
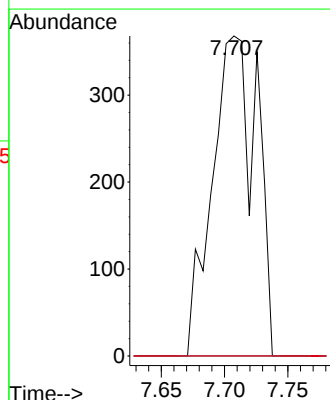
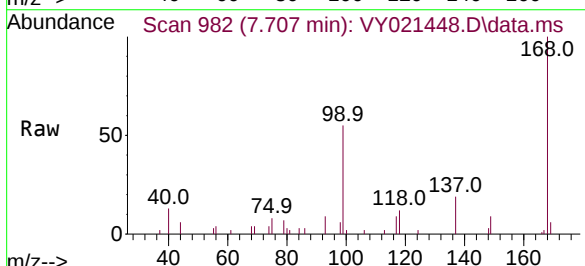
Tgt Ion: 117 Resp: 899

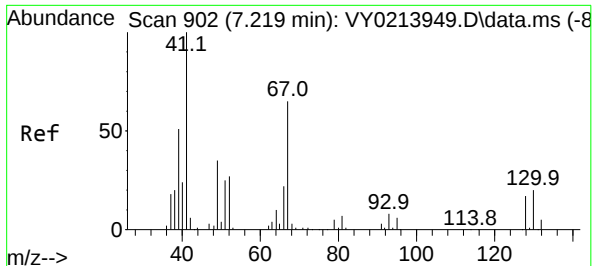
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#

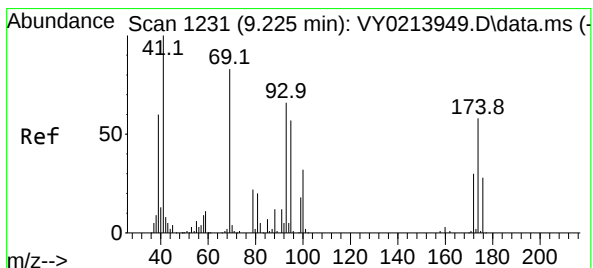
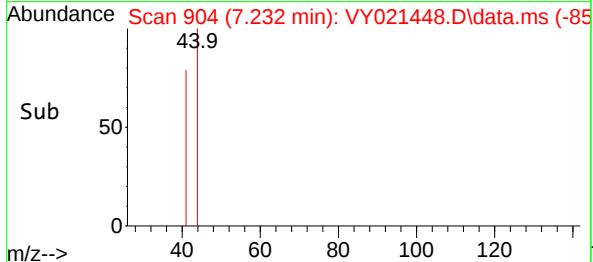
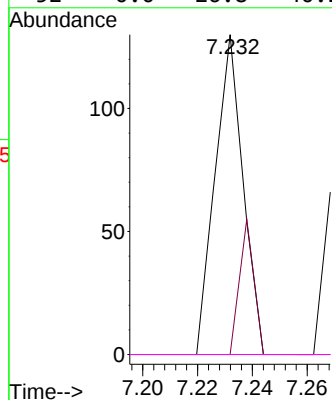
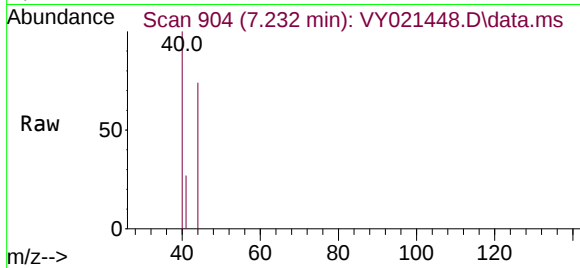




#41
Methacrylonitrile
Concen: 3.293 ug/l
RT: 7.232 min Scan# 904
Delta R.T. 0.013 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

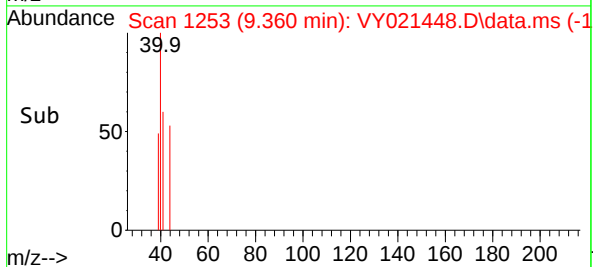
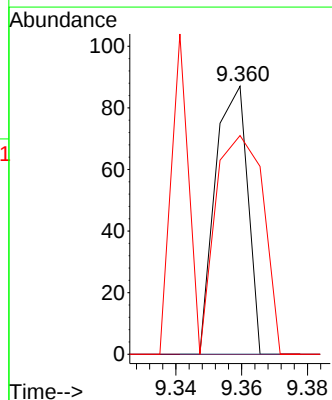
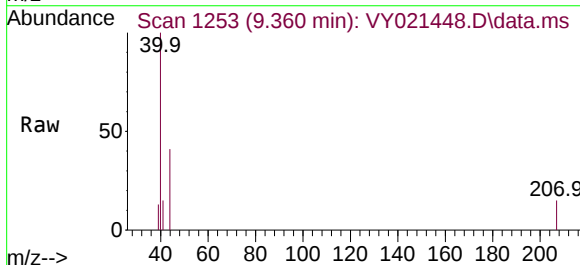
Instrument :
MSVOA_Y
ClientSampleId :
T10

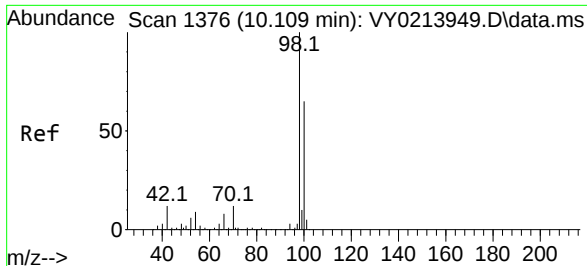
Tgt Ion:	41	Resp:	92
Ion	Ratio	Lower	Upper
41	100		
39	21.7	35.0	52.6#
67	0.0	61.2	91.8#
52	0.0	26.8	40.2#



#48
Methyl methacrylate
Concen: 1.290 ug/l
RT: 9.360 min Scan# 1253
Delta R.T. 0.135 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

Tgt Ion:	41	Resp:	59
Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.8	101.8#
39	120.3	46.4	69.6#

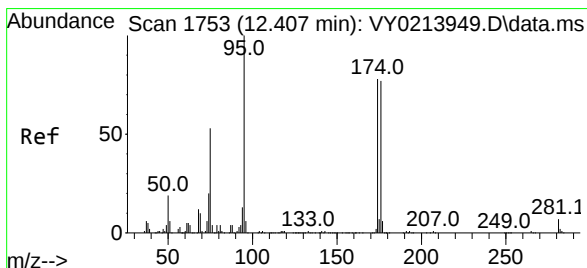
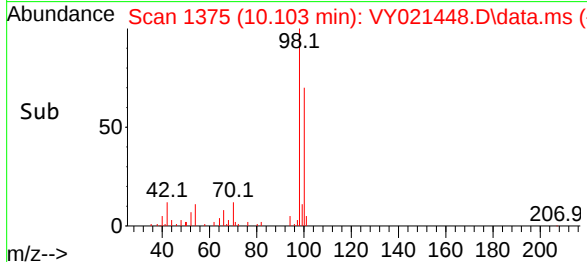
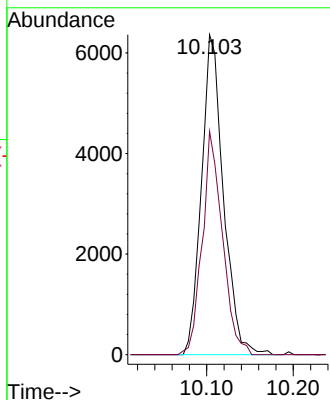
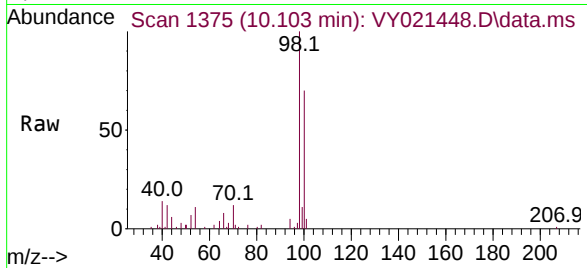




#50
Toluene-d8
Concen: 39.927 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

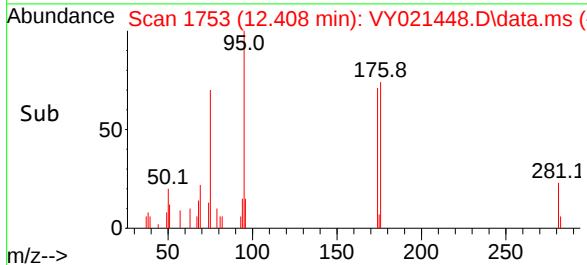
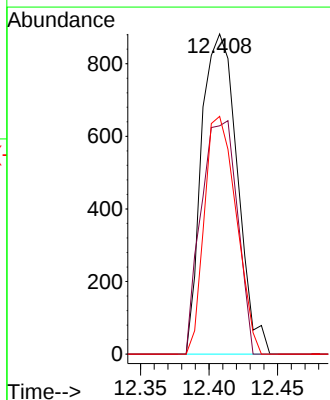
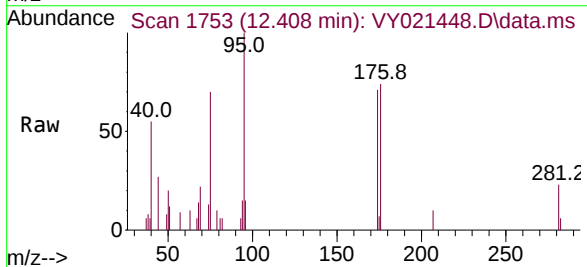
Instrument :
MSVOA_Y
ClientSampleId :
T10

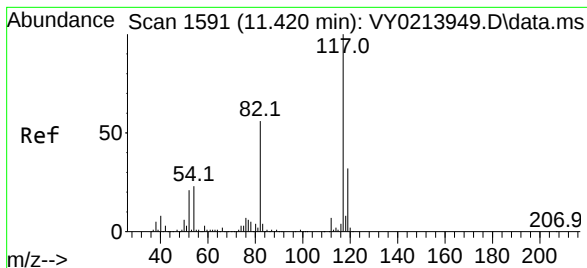
Tgt Ion: 98 Resp: 11213
Ion Ratio Lower Upper
98 100
100 64.1 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 16.728 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

Tgt Ion: 95 Resp: 1598
Ion Ratio Lower Upper
95 100
174 73.7 0.0 165.0
176 66.5 0.0 160.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021448.D

Acq: 06 Mar 2025 20:30

Instrument :

MSVOA_Y

ClientSampleId :

T10

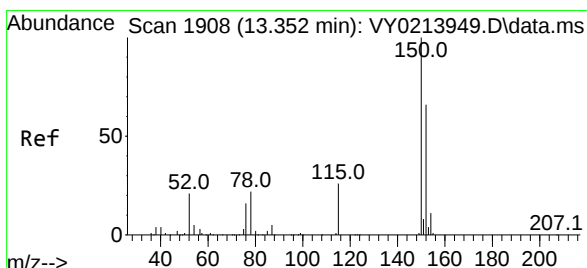
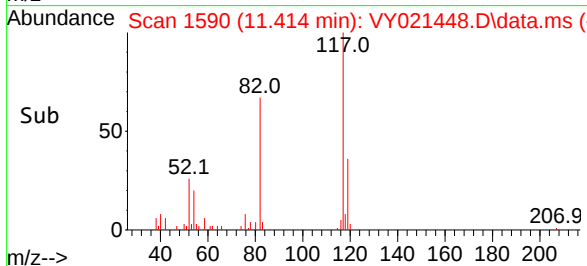
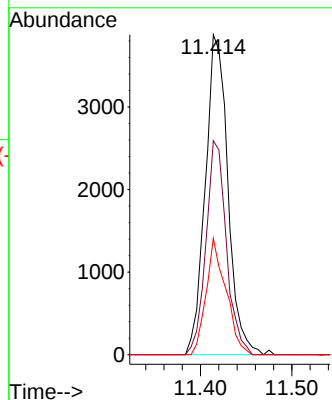
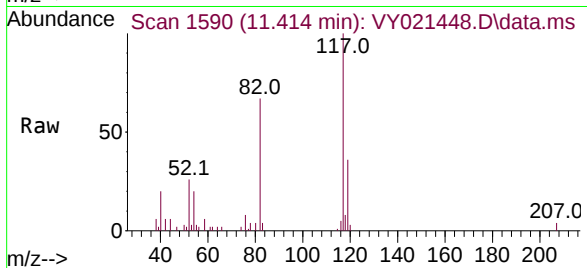
Tgt Ion:117 Resp: 6680

Ion Ratio Lower Upper

117 100

82 66.9 44.6 67.0

119 36.4 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: VY021448.D

Acq: 06 Mar 2025 20:30

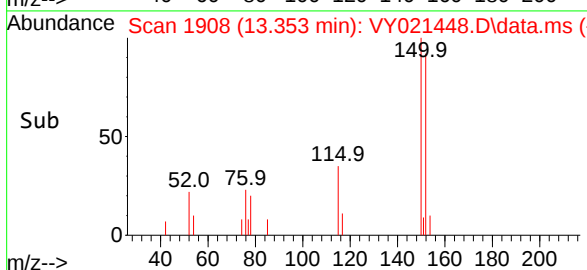
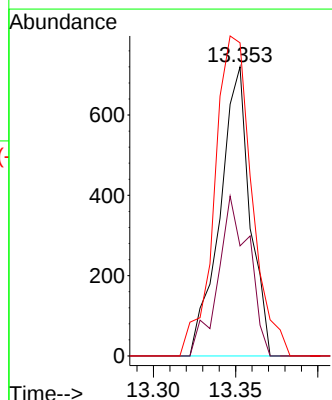
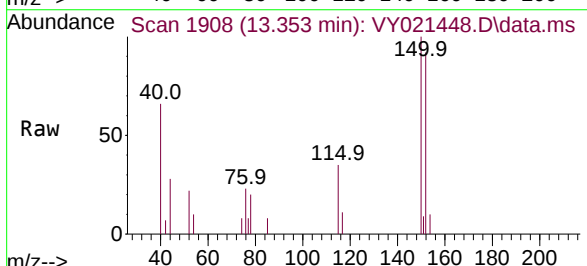
Tgt Ion:152 Resp: 917

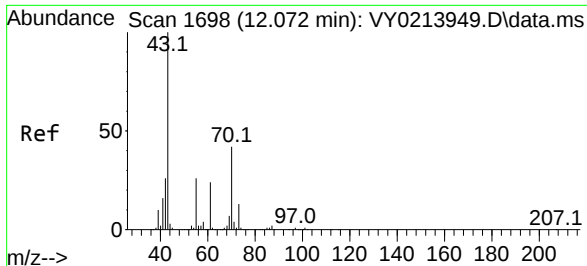
Ion Ratio Lower Upper

152 100

115 57.0 29.0 87.0

150 137.3 0.0 347.2

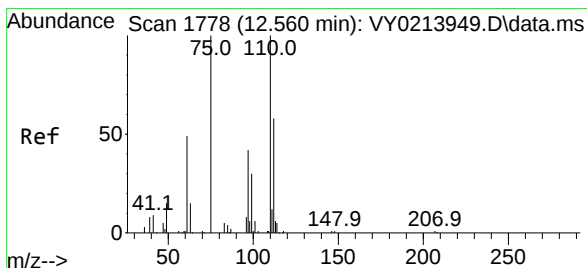
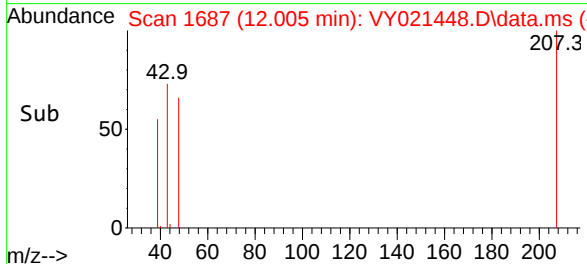
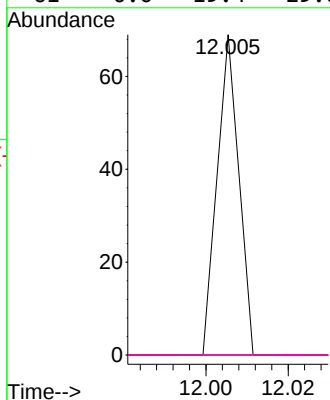
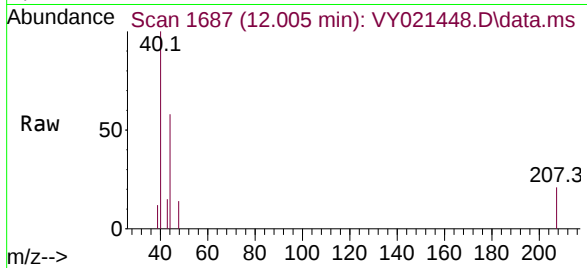




#74
N-amy1 acetate
Concen: 1.594 ug/l
RT: 12.005 min Scan# 1753
Delta R.T. -0.067 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

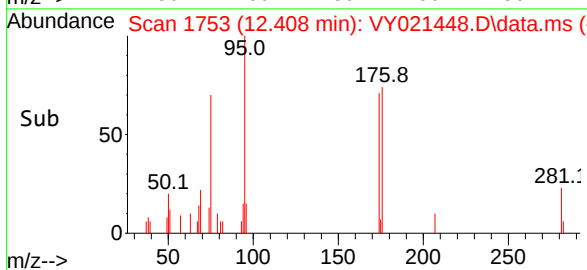
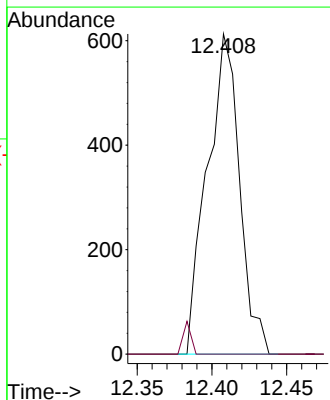
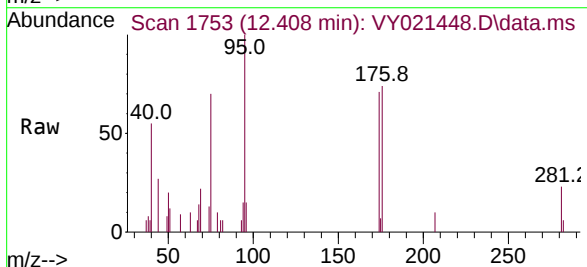
Instrument :
MSVOA_Y
ClientSampleId :
T10

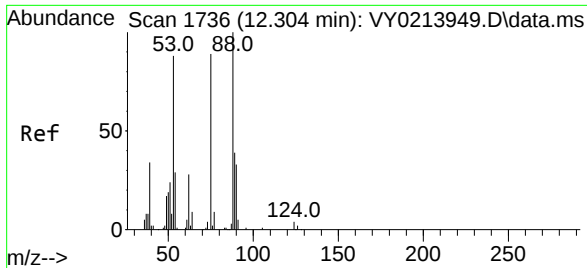
Tgt Ion: 43	Resp: 25
Ion Ratio	Lower Upper
43 100	
70 0.0	34.6 51.8#
55 0.0	21.1 31.7#
61 0.0	19.4 29.0#



#76
1,2,3-Trichloropropane
Concen: 99.670 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021448.D
Acq: 06 Mar 2025 20:30

Tgt Ion: 75	Resp: 921
Ion Ratio	Lower Upper
75 100	
77 0.0	0.0 0.0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 226.582 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY021448.D
 Acq: 06 Mar 2025 20:30

Instrument :
 MSVOA_Y
 ClientSampleId :
 T10

Tgt Ion: 75 Resp: 921
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.4#
 89 0.0 36.9 55.3#

