

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030625\
 Data File : VY021431.D
 Acq On : 06 Mar 2025 13:52
 Operator : SY/MD
 Sample : Q1489-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-1

Quant Time: Mar 07 00:39:53 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)

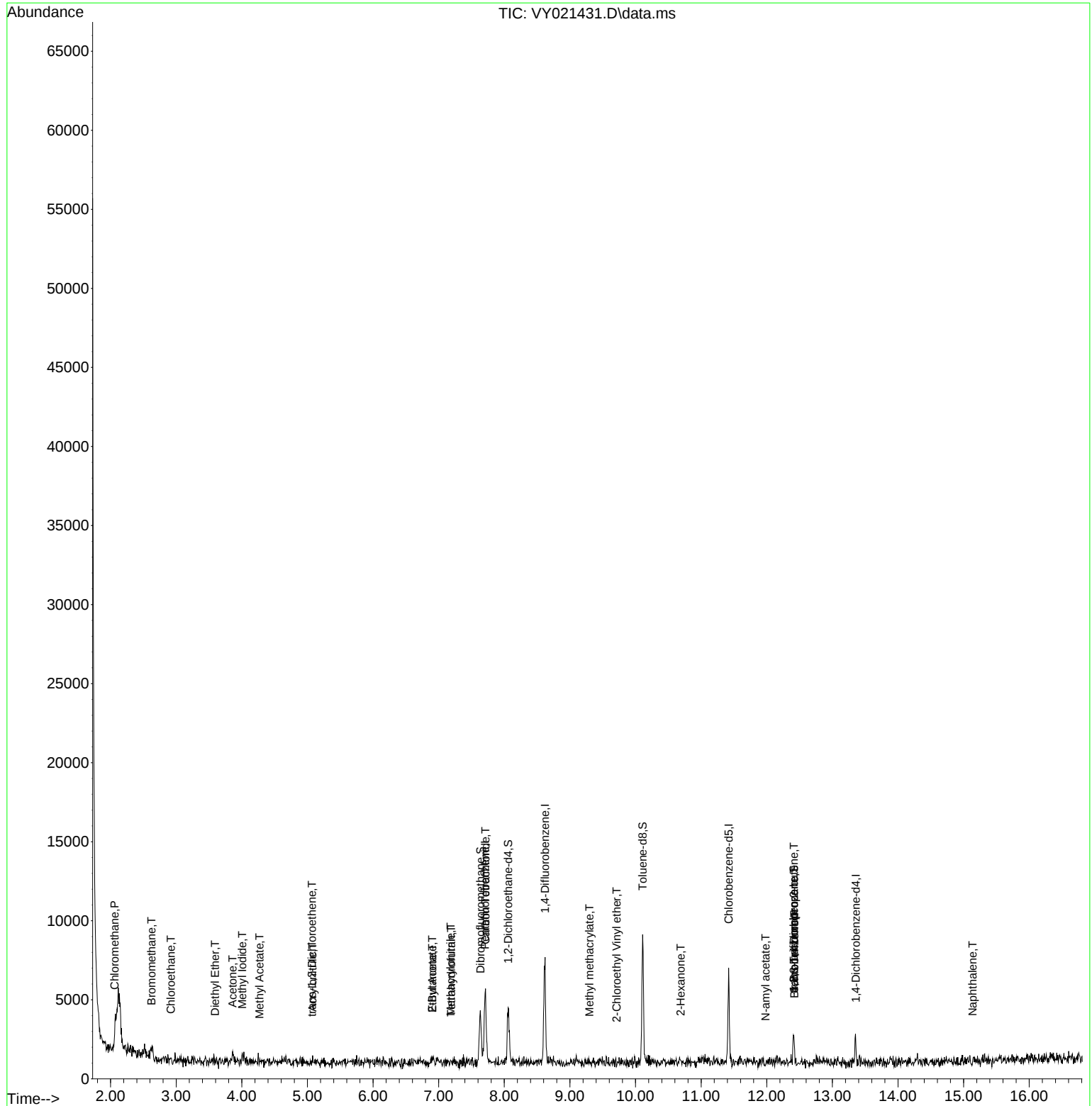
Internal Standards						
1) Pentafluorobenzene	7.707	168	3259	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	5448	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	2998	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.358	152	400	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	2468	71.649	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 143.300%	
35) Dibromofluoromethane	7.640	113	2191	61.183	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 122.360%	
50) Toluene-d8	10.109	98	5110	37.687	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 75.380%	
62) 4-Bromofluorobenzene	12.413	95	619	13.421	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 26.840%#	
Target Compounds						Qvalue
3) Chloromethane	2.062	50	242	5.739	ug/l	# 42
5) Bromomethane	2.622	94	342	10.270	ug/l	# 78
6) Chloroethane	2.921	64	50	1.642	ug/l	# 41
8) Diethyl Ether	3.592	74	48	2.693	ug/l	66
10) Methyl Iodide	4.006	142	299	8.011	ug/l	# 78
11) Tert butyl alcohol	5.012	59	27	Below Cal	# 72	
15) Acrylonitrile	5.079	53	56	7.381	ug/l	# 44
16) Acetone	3.860	43	745	99.163	ug/l	# 72
18) Methyl Acetate	4.268	43	20	1.200	ug/l	# 51
21) trans-1,2-Dichloroethene	5.067	96	38	1.014	ug/l	# 1
25) 2-Butanone	6.902	43	208	20.014	ug/l	# 48
29) Tetrahydrofuran	7.189	42	20	3.117	ug/l	# 33
37) Ethyl Acetate	6.902	43	208	8.395	ug/l	# 68
38) Carbon Tetrachloride	7.713	117	328	5.088	ug/l	# 12
41) Methacrylonitrile	7.183	41	45	3.336	ug/l	# 1
48) Methyl methacrylate	9.298	41	55	2.490	ug/l	# 13
58) 2-Chloroethyl Vinyl ether	9.713	63	19	1.128	ug/l	# 47
59) 2-Hexanone	10.688	43	44	2.682	ug/l	# 24
74) N-amyl acetate	11.980	43	20	2.923	ug/l	# 42
76) 1,2,3-Trichloropropane	12.413	75	351	87.081	ug/l	# 100
77) Bromobenzene	12.419	156	29	3.934	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.413	75	351	197.962	ug/l	# 9
95) Naphthalene	15.138	128	50	6.024	ug/l	# 69

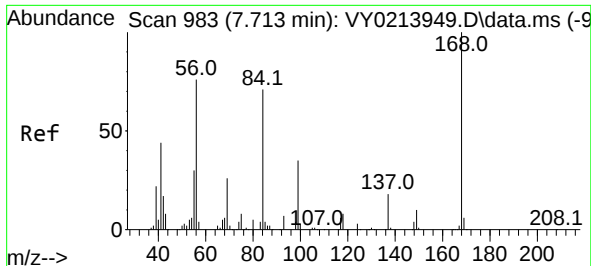
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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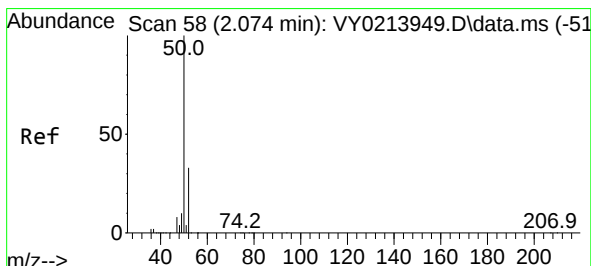
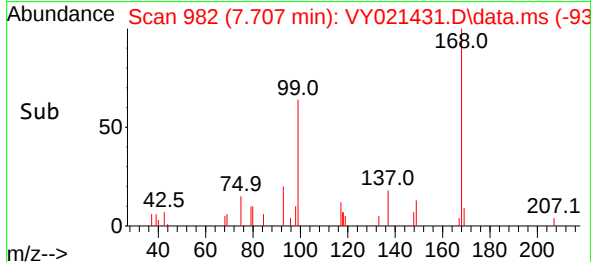
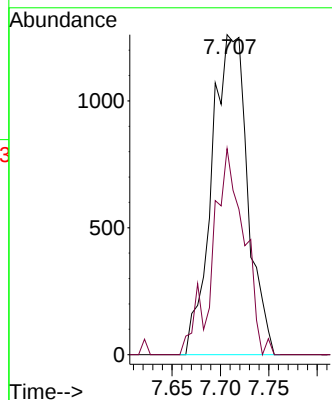
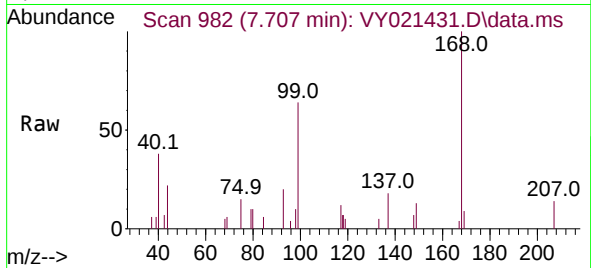




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

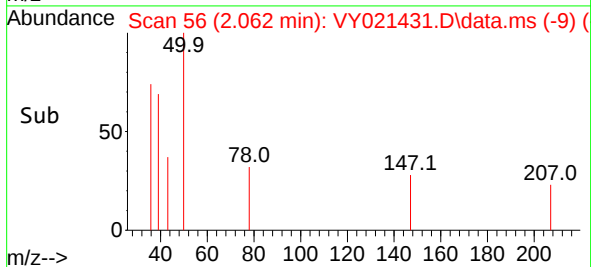
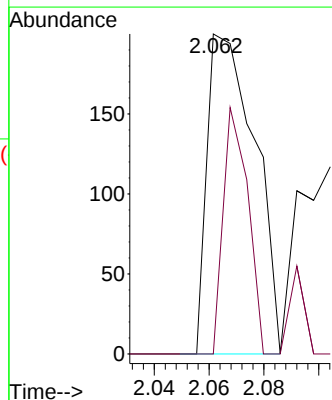
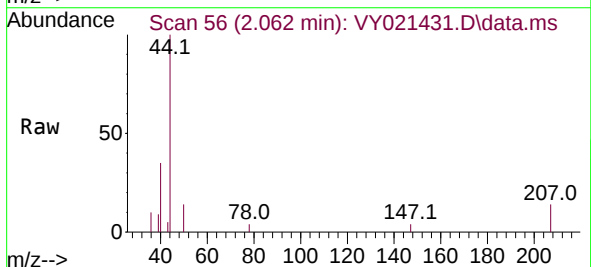
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

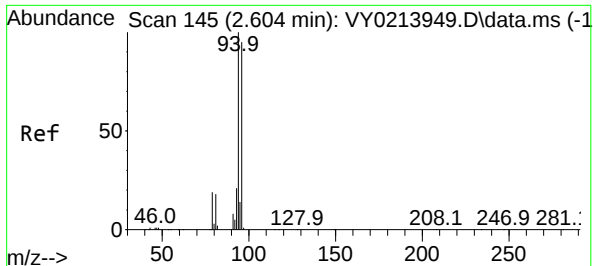
Tgt Ion:168 Resp: 3259
Ion Ratio Lower Upper
168 100
99 64.4 46.0 69.0



#3
Chloromethane
Concen: 5.739 ug/l
RT: 2.062 min Scan# 56
Delta R.T. -0.012 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion: 50 Resp: 242
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#

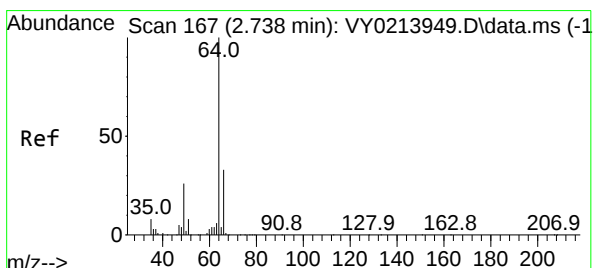
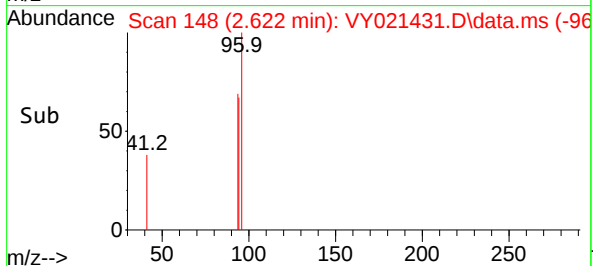
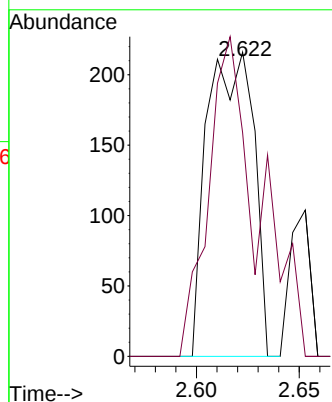
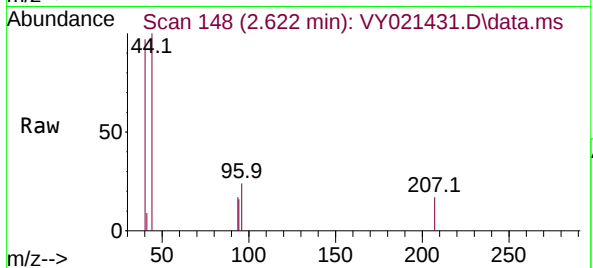




#5
Bromomethane
Concen: 10.270 ug/l
RT: 2.622 min Scan# 14
Delta R.T. 0.018 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

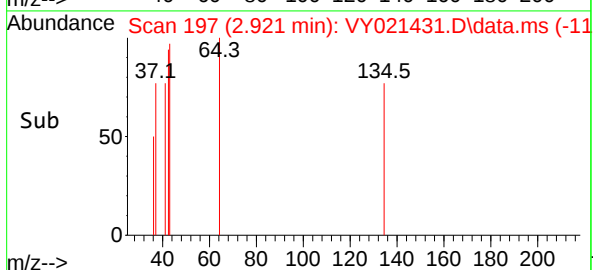
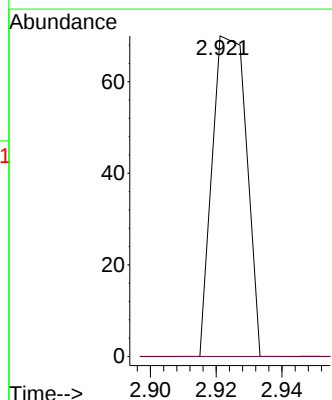
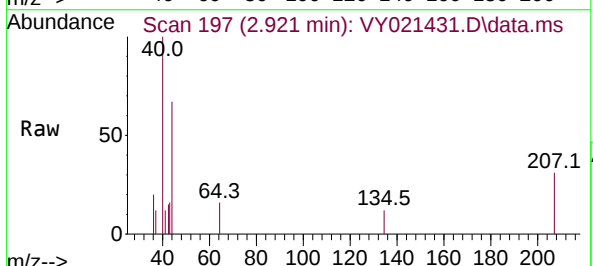
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

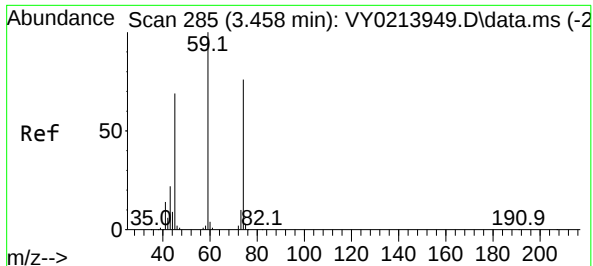
Tgt Ion: 94 Resp: 342
Ion Ratio Lower Upper
94 100
96 73.6 76.3 114.5#



#6
Chloroethane
Concen: 1.642 ug/l
RT: 2.921 min Scan# 197
Delta R.T. 0.183 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion: 64 Resp: 50
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#

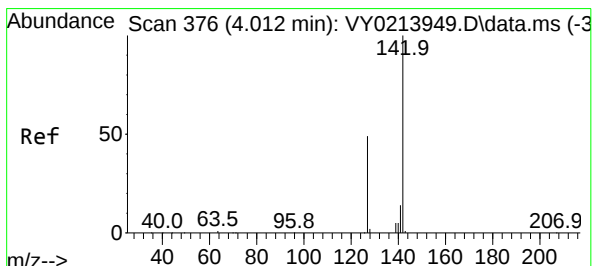
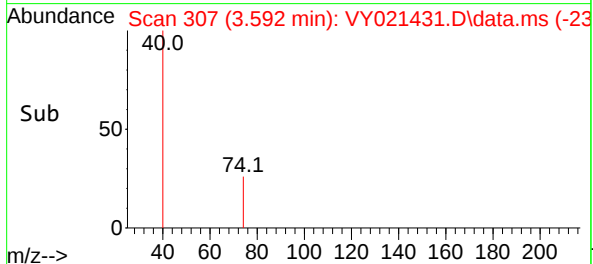
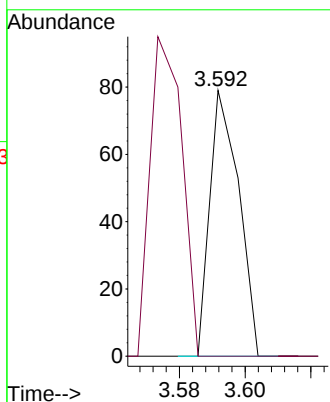
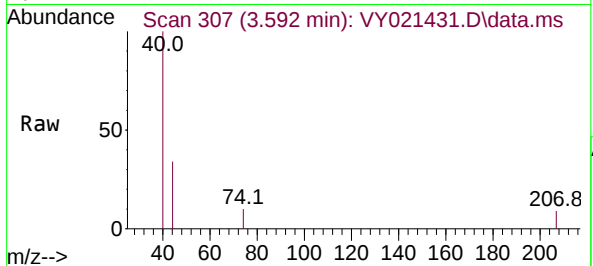




#8
Diethyl Ether
Concen: 2.693 ug/l
RT: 3.592 min Scan# 307
Delta R.T. 0.134 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

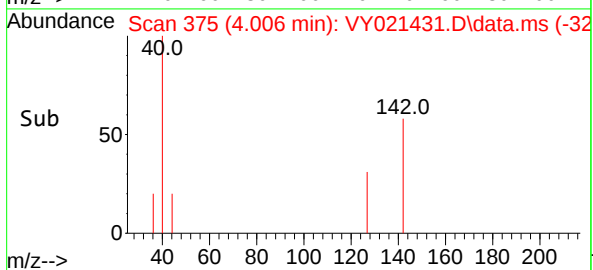
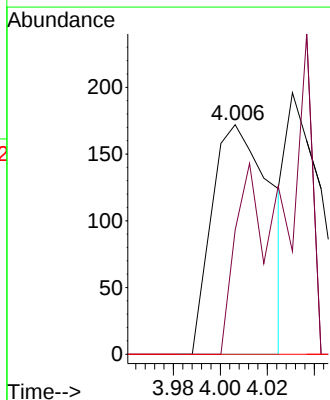
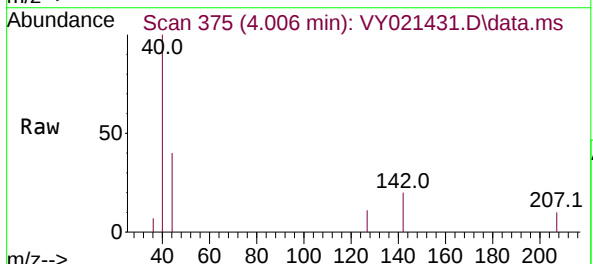
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

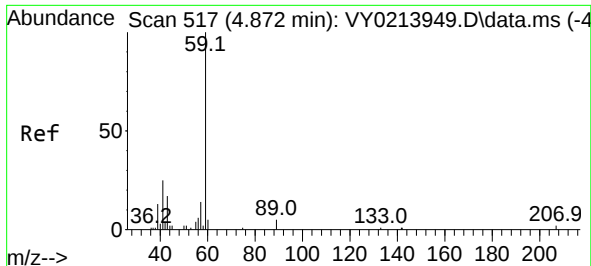
Tgt Ion: 74 Resp: 48
Ion Ratio Lower Upper
74 100
45 133.3 49.7 149.1



#10
Methyl Iodide
Concen: 8.011 ug/l
RT: 4.006 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion: 142 Resp: 299
Ion Ratio Lower Upper
142 100
127 37.1 39.1 58.7#
141 0.0 11.8 17.6#

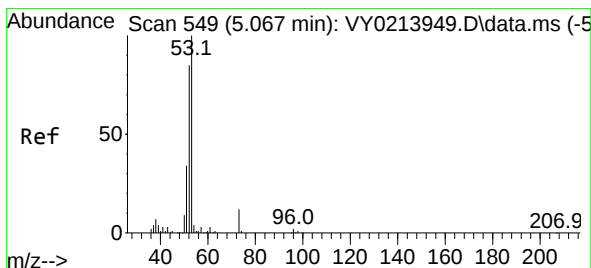
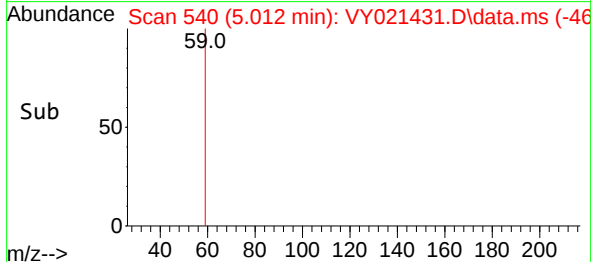
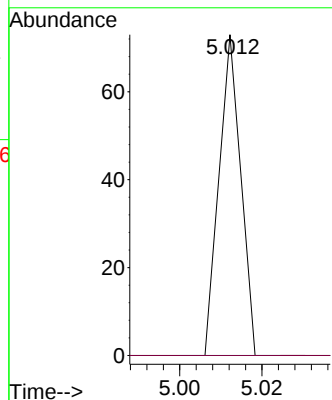
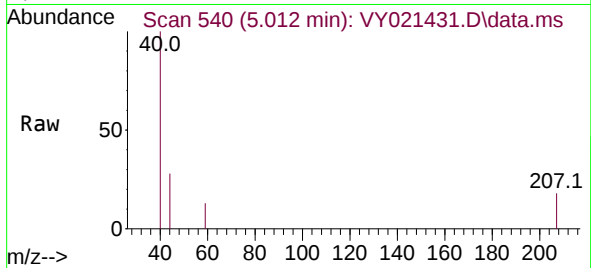




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.012 min Scan# 54
Delta R.T. 0.140 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

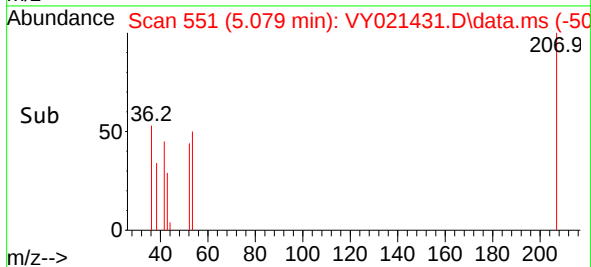
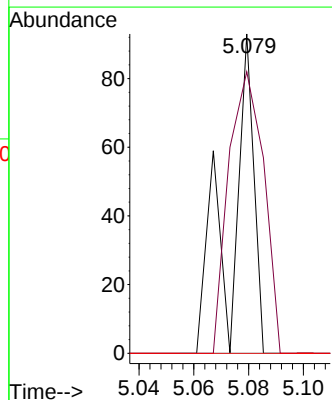
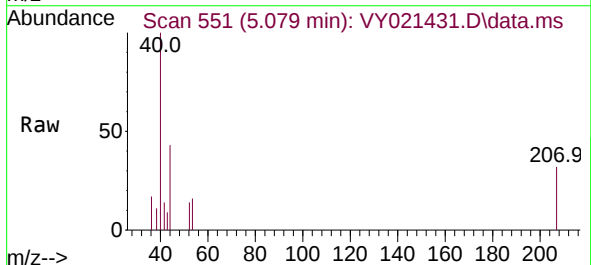
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

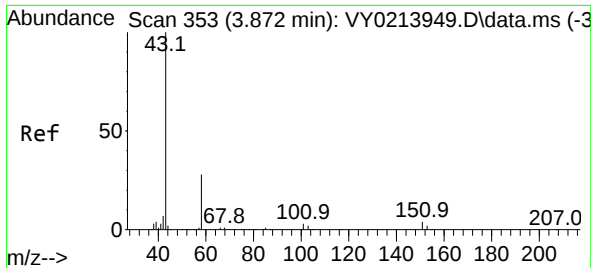
Tgt Ion: 59 Resp: 27
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#15
Acrylonitrile
Concen: 7.381 ug/l
RT: 5.079 min Scan# 551
Delta R.T. 0.012 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion: 53 Resp: 56
Ion Ratio Lower Upper
53 100
52 130.4 66.3 99.5#
51 0.0 30.3 45.5#

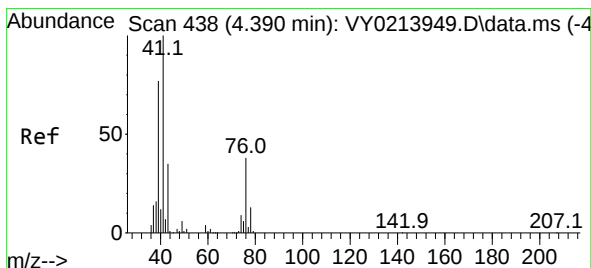
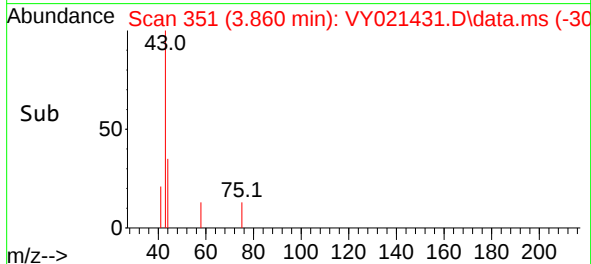
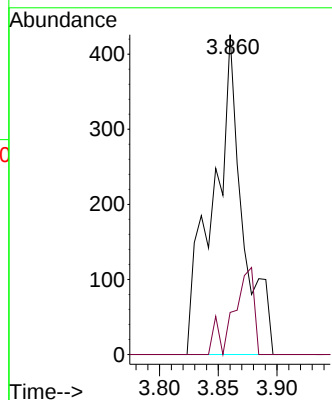
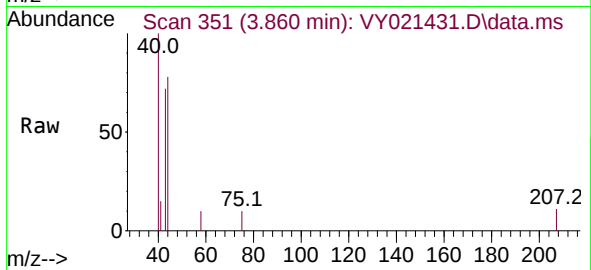




#16
Acetone
Concen: 99.163 ug/l
RT: 3.860 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

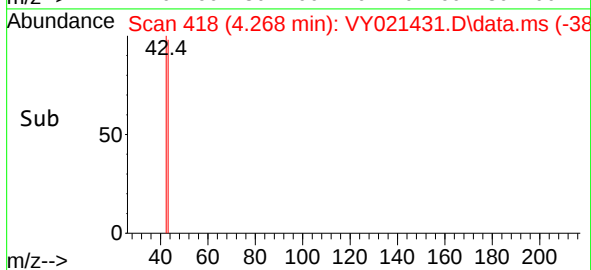
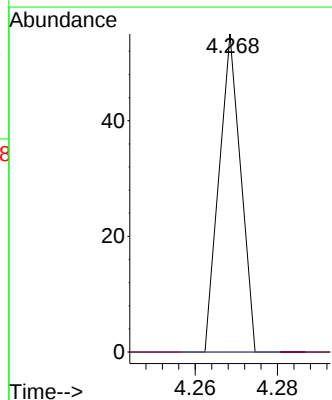
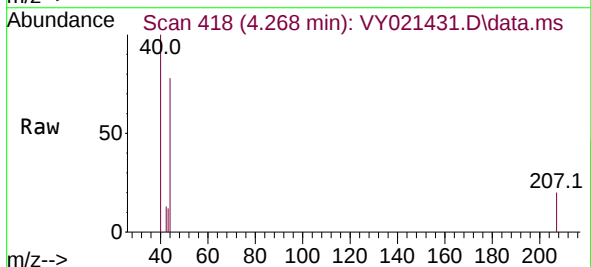
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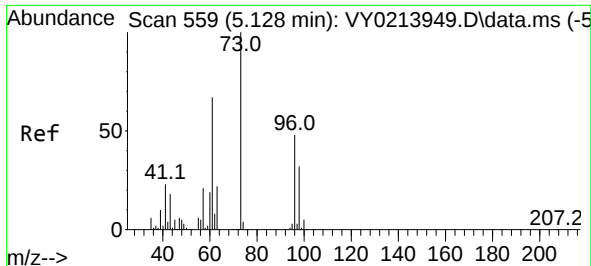
Tgt Ion: 43 Resp: 745
Ion Ratio Lower Upper
43 100
58 13.1 22.1 33.1#



#18
Methyl Acetate
Concen: 1.200 ug/l
RT: 4.268 min Scan# 418
Delta R.T. -0.122 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion: 43 Resp: 20
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#

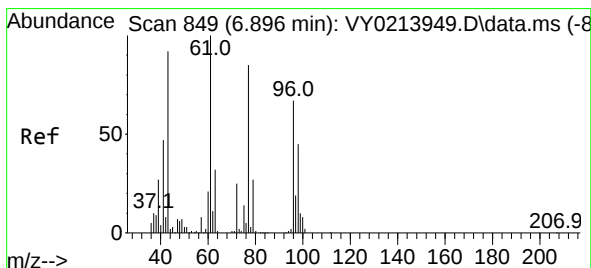
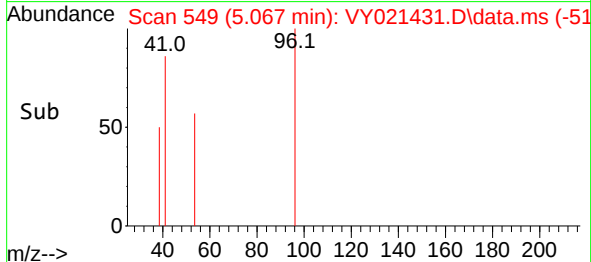
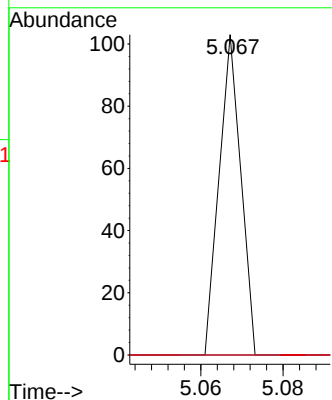
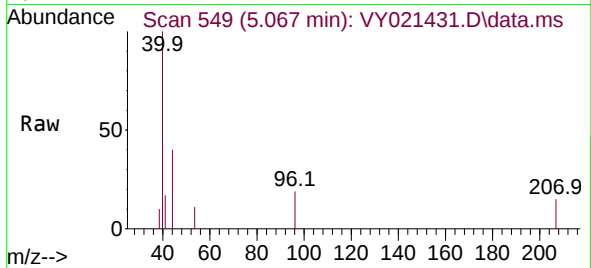




#21
trans-1,2-Dichloroethene
Concen: 1.014 ug/l
RT: 5.067 min Scan# 54
Delta R.T. -0.061 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

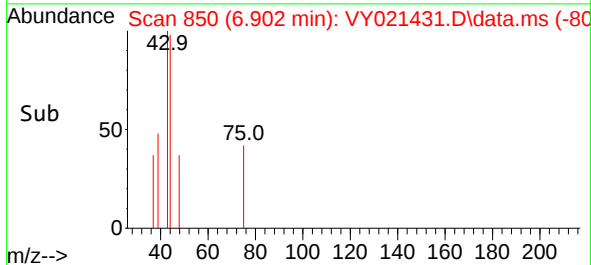
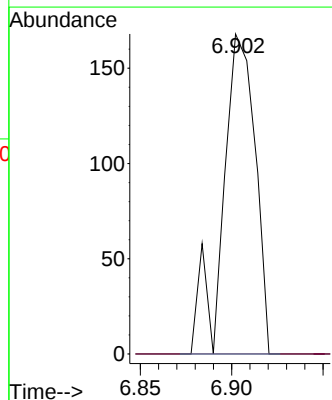
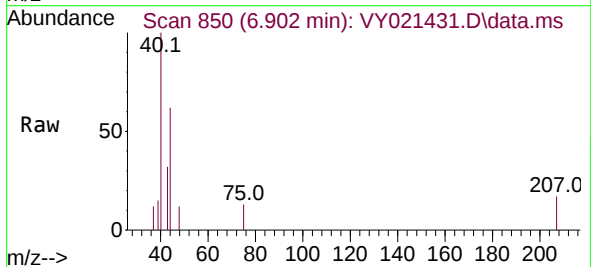
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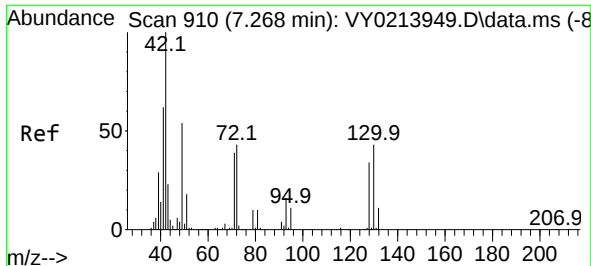
Tgt Ion: 96 Resp: 38
Ion Ratio Lower Upper
96 100
61 0.0 111.5 167.3#
98 0.0 53.8 80.8#



#25
2-Butanone
Concen: 20.014 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.006 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion: 43 Resp: 208
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.0#





#29

Tetrahydrofuran

Concen: 3.117 ug/l

RT: 7.189 min Scan# 897

Delta R.T. -0.079 min

Lab File: VY021431.D

Acq: 06 Mar 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

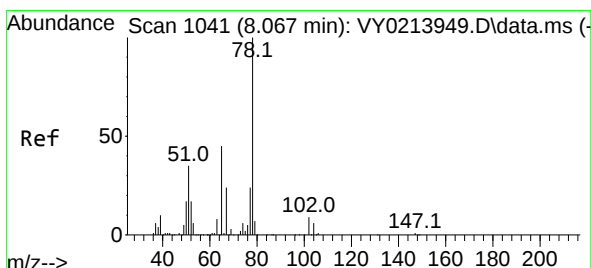
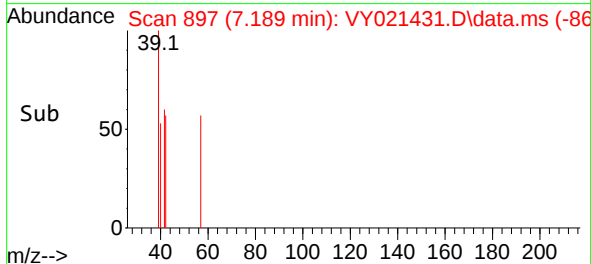
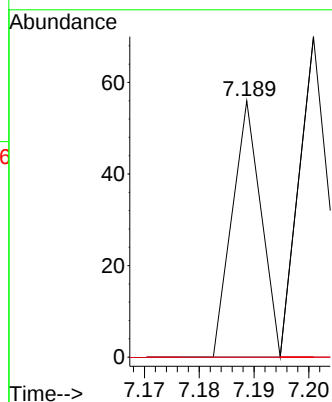
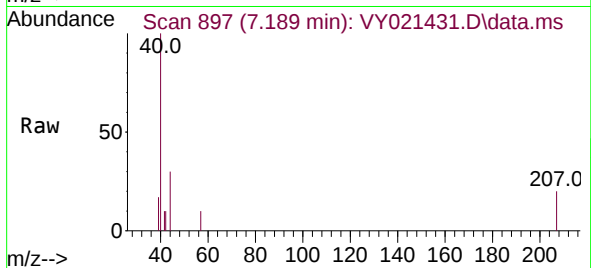
Tgt Ion: 42 Resp: 20

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: 71.649 ug/l

RT: 8.060 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VY021431.D

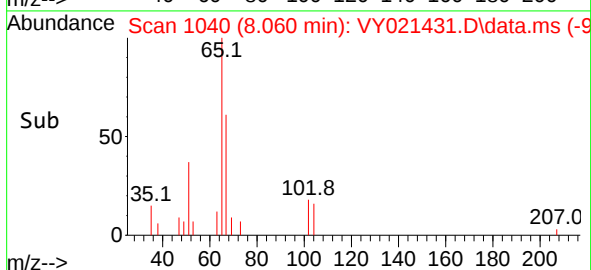
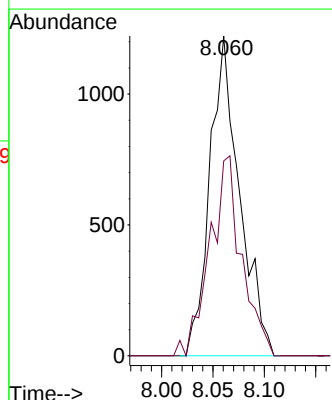
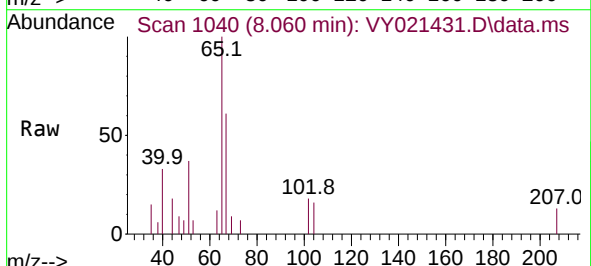
Acq: 06 Mar 2025 13:52

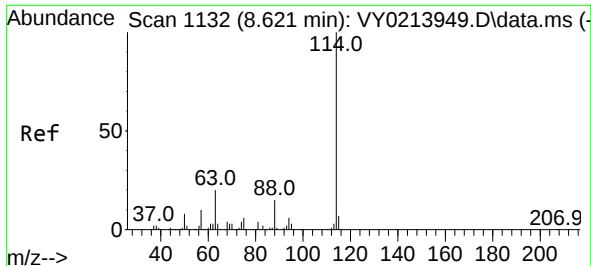
Tgt Ion: 65 Resp: 2468

Ion Ratio Lower Upper

65 100

67 66.2 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.621 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021431.D

Acq: 06 Mar 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

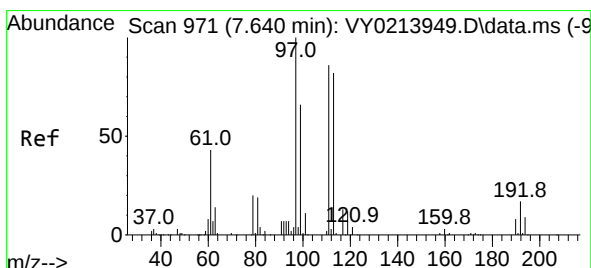
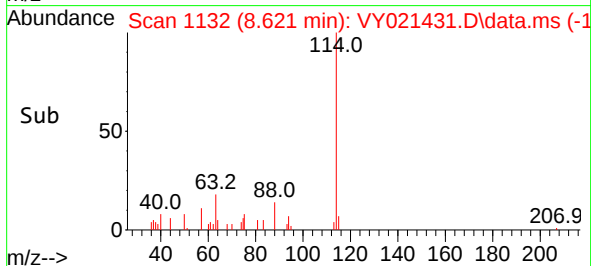
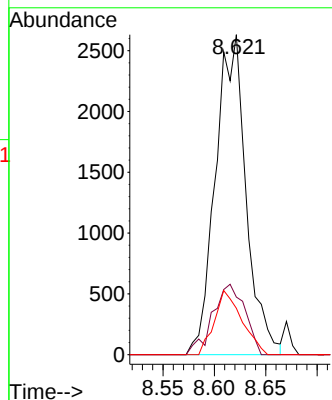
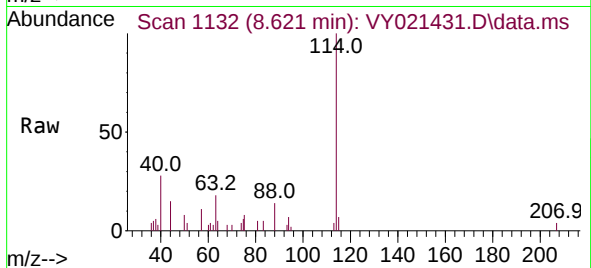
Tgt Ion:114 Resp: 5448

Ion Ratio Lower Upper

114 100

63 18.0 0.0 40.8

88 14.5 0.0 30.8



#35

Dibromofluoromethane

Concen: 61.183 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY021431.D

Acq: 06 Mar 2025 13:52

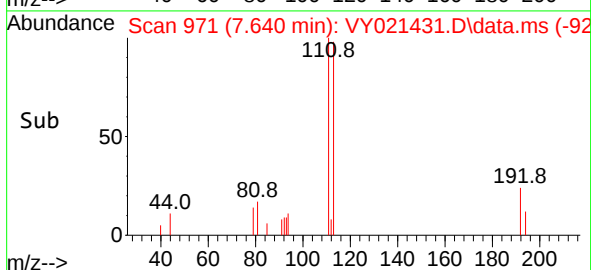
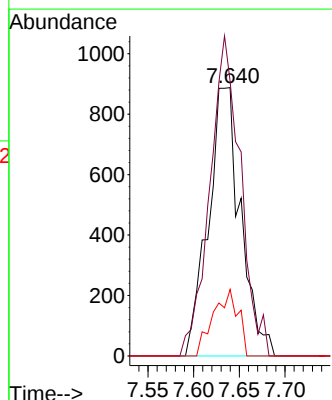
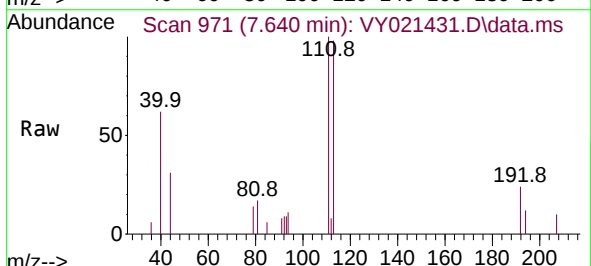
Tgt Ion:113 Resp: 2191

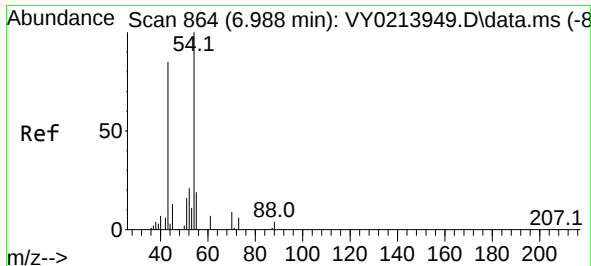
Ion Ratio Lower Upper

113 100

111 112.7 82.0 123.0

192 18.9 15.9 23.9





#37

Ethyl Acetate

Concen: 8.395 ug/l

RT: 6.902 min Scan# 81

Delta R.T. -0.085 min

Lab File: VY021431.D

Acq: 06 Mar 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

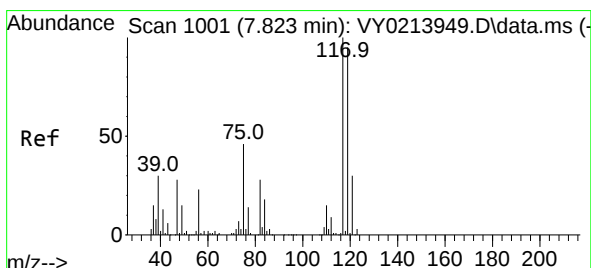
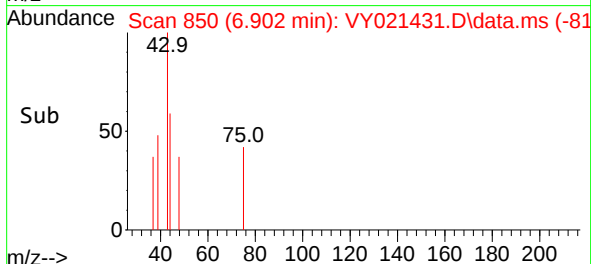
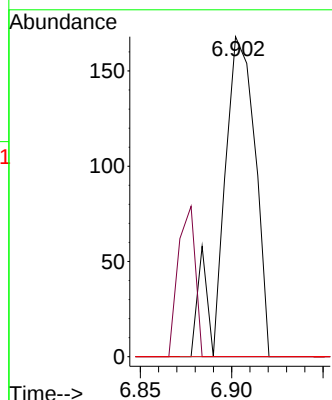
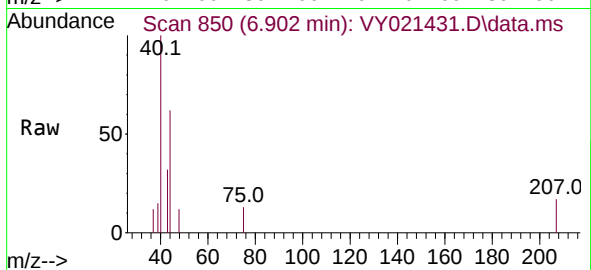
Tgt Ion: 43 Resp: 208

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

70 0.0 8.2 12.2#



#38

Carbon Tetrachloride

Concen: 5.088 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.110 min

Lab File: VY021431.D

Acq: 06 Mar 2025 13:52

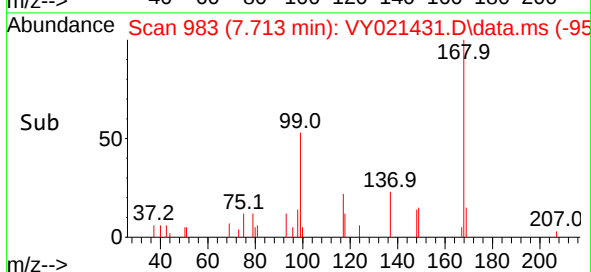
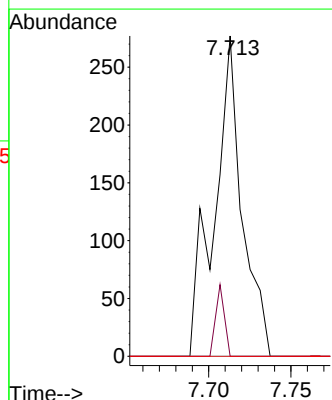
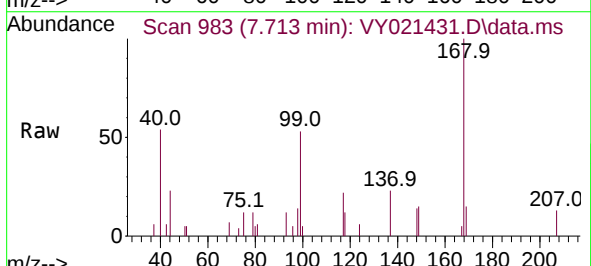
Tgt Ion: 117 Resp: 328

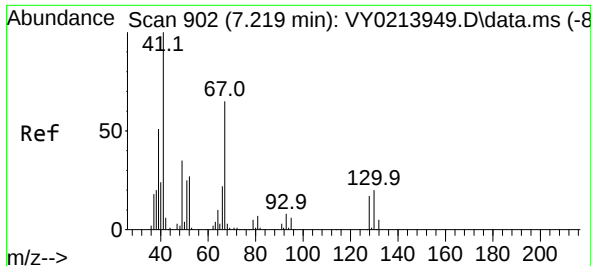
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#

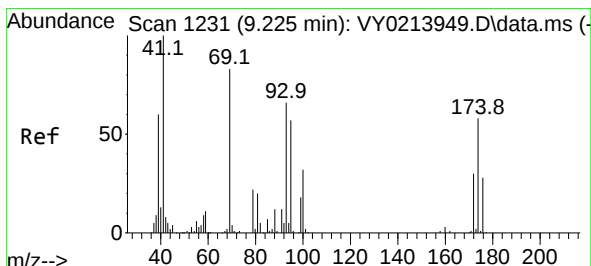
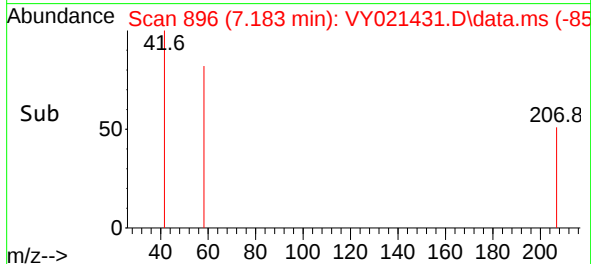
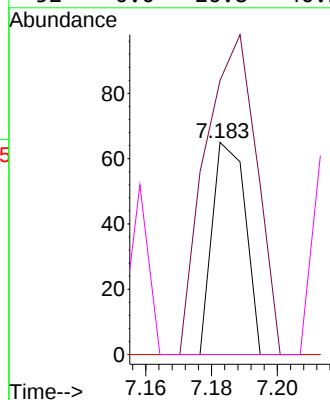
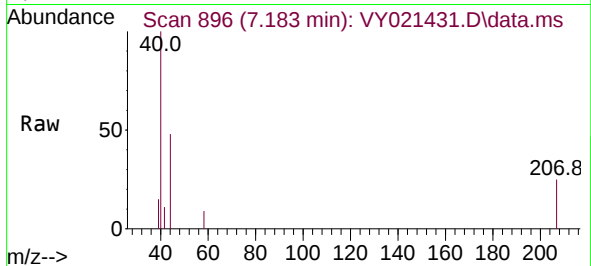




#41
Methacrylonitrile
Concen: 3.336 ug/l
RT: 7.183 min Scan# 896
Delta R.T. -0.037 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

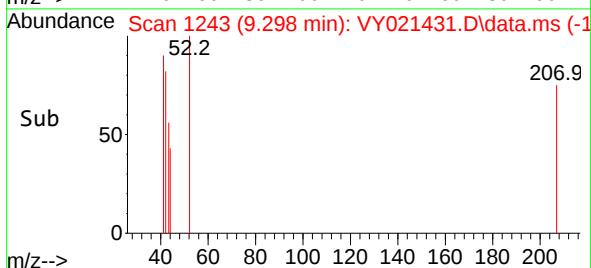
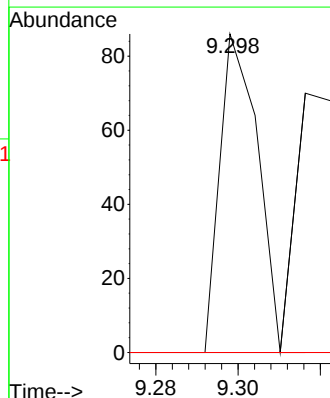
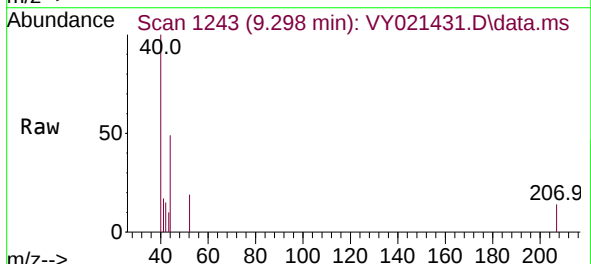
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

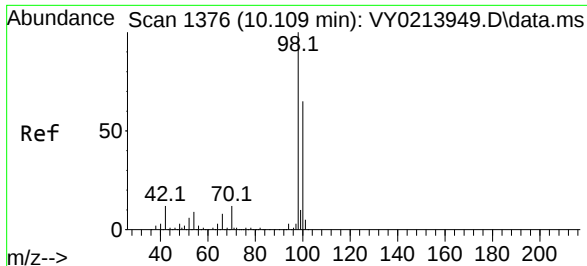
Tgt Ion:	41	Resp:	45
Ion	Ratio	Lower	Upper
41	100		
39	235.6	35.0	52.6#
67	0.0	61.2	91.8#
52	0.0	26.8	40.2#



#48
Methyl methacrylate
Concen: 2.490 ug/l
RT: 9.298 min Scan# 1243
Delta R.T. 0.073 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion:	41	Resp:	55
Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.8	101.8#
39	0.0	46.4	69.6#





#50

Toluene-d8

Concen: 37.687 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021431.D

Acq: 06 Mar 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

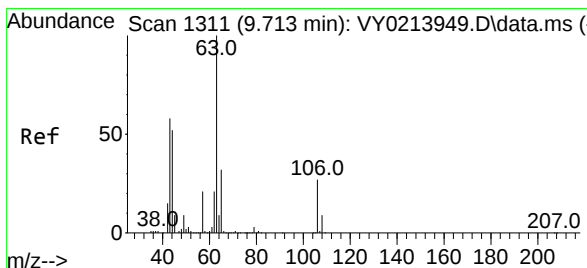
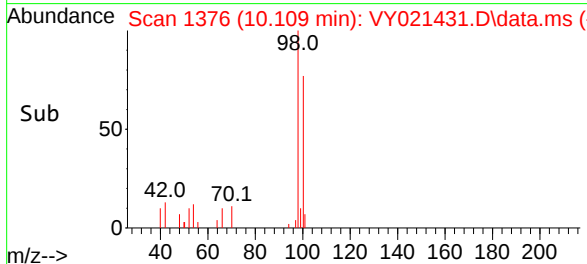
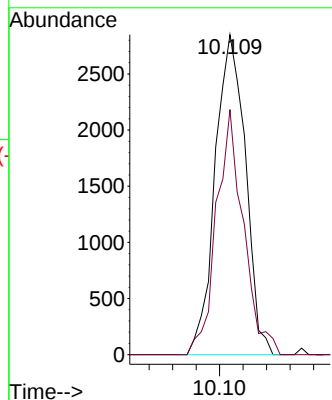
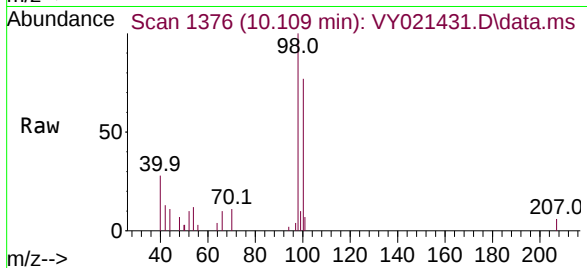
TP-1

Tgt Ion: 98 Resp: 5110

Ion Ratio Lower Upper

98 100

100 68.4 52.1 78.1



#58

2-Chloroethyl Vinyl ether

Concen: 1.128 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VY021431.D

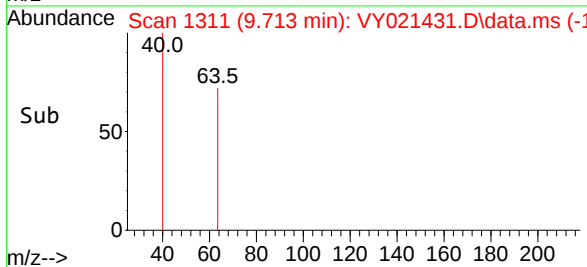
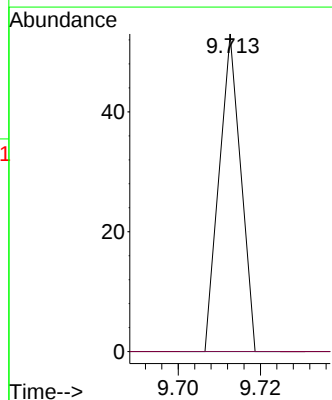
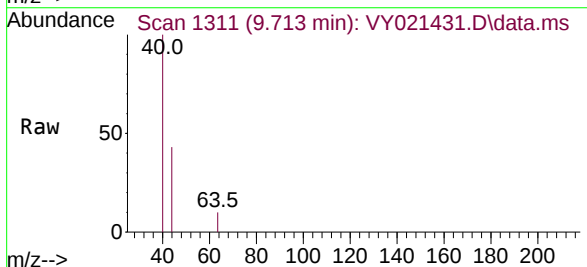
Acq: 06 Mar 2025 13:52

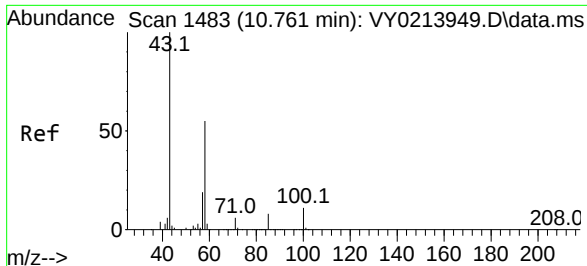
Tgt Ion: 63 Resp: 19

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.682 ug/l

RT: 10.688 min Scan# 14

Delta R.T. -0.073 min

Lab File: VY021431.D

Acq: 06 Mar 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

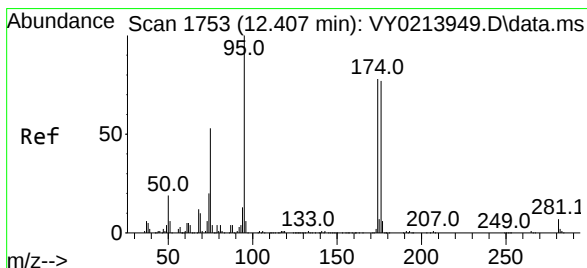
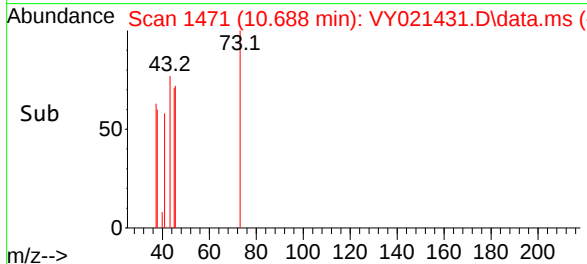
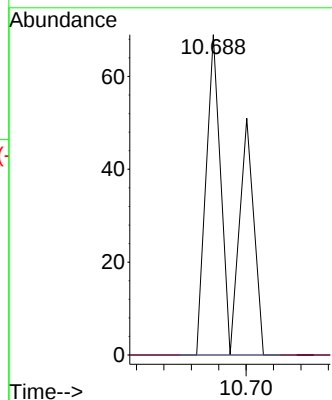
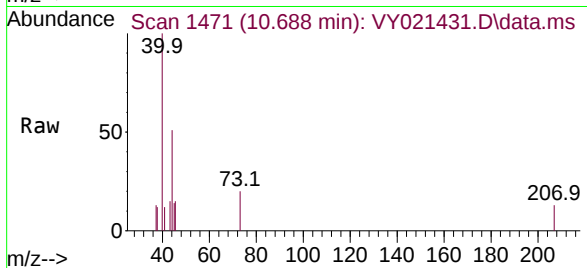
TP-1

Tgt Ion: 43 Resp: 44

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#



#62

4-Bromofluorobenzene

Concen: 13.421 ug/l

RT: 12.413 min Scan# 1754

Delta R.T. 0.006 min

Lab File: VY021431.D

Acq: 06 Mar 2025 13:52

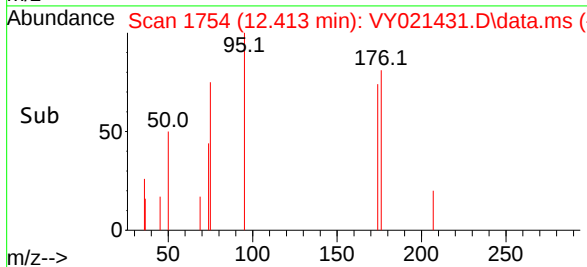
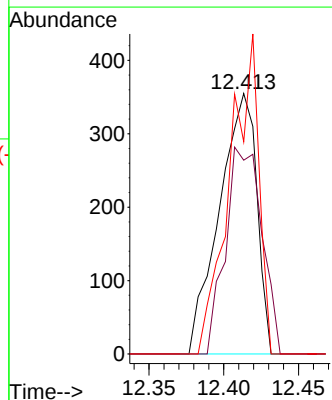
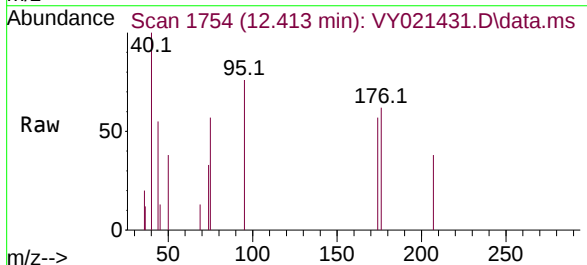
Tgt Ion: 95 Resp: 619

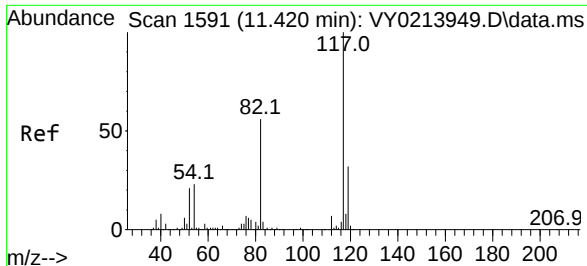
Ion Ratio Lower Upper

95 100

174 76.7 0.0 165.0

176 94.7 0.0 160.0

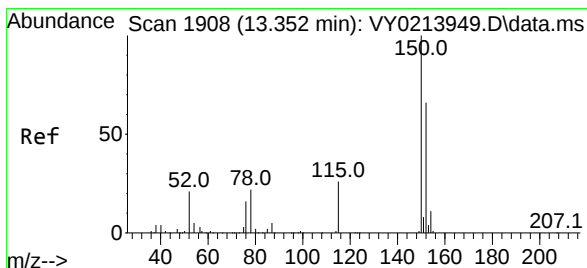
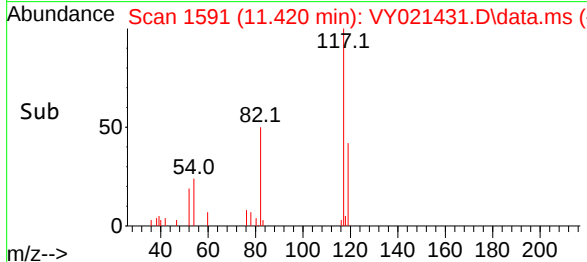
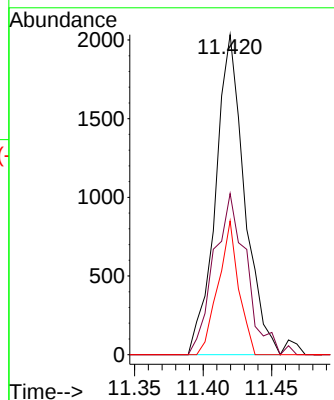
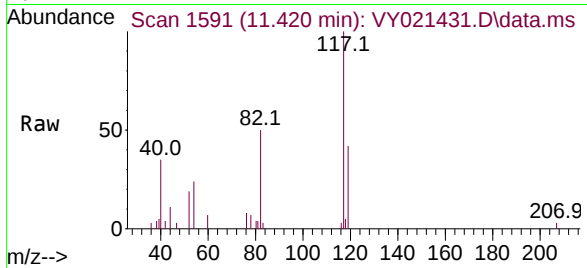




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

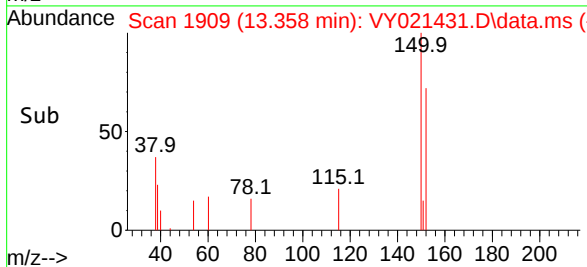
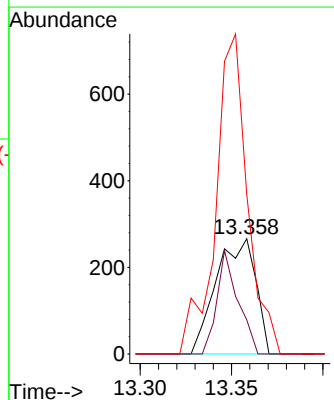
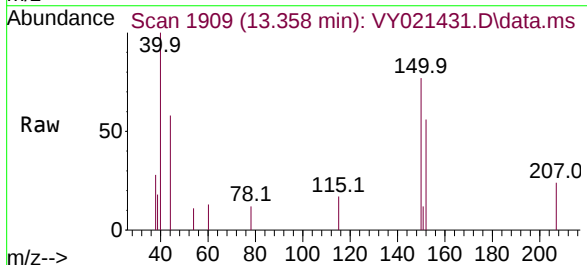
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

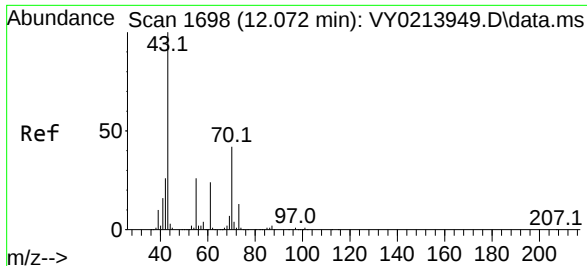
Tgt Ion:	117	Resp:	2998
Ion	Ratio	Lower	Upper
117	100		
82	50.3	44.6	67.0
119	41.8	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.358 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion:	152	Resp:	400
Ion	Ratio	Lower	Upper
152	100		
115	47.8	29.0	87.0
150	224.0	0.0	347.2

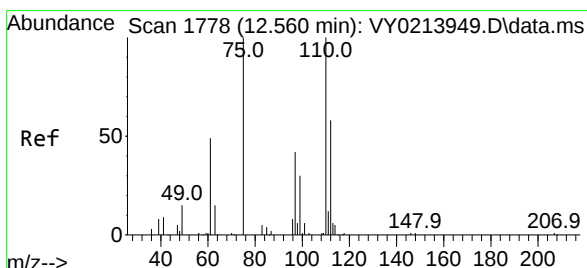
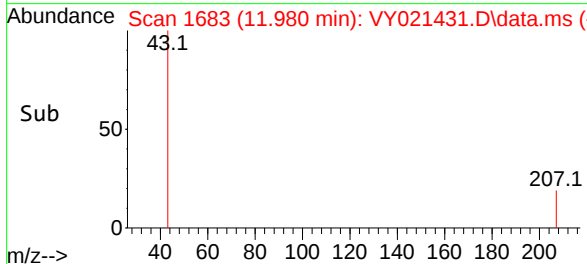
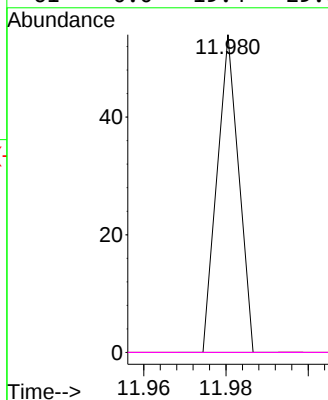
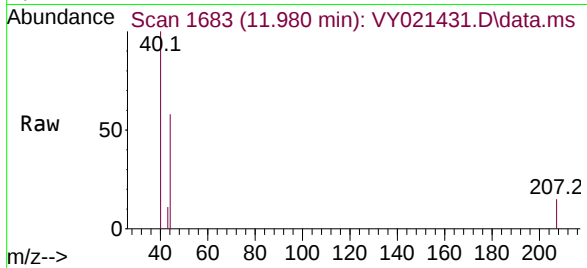




#74
N-amy1 acetate
Concen: 2.923 ug/l
RT: 11.980 min Scan# 1
Delta R.T. -0.091 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

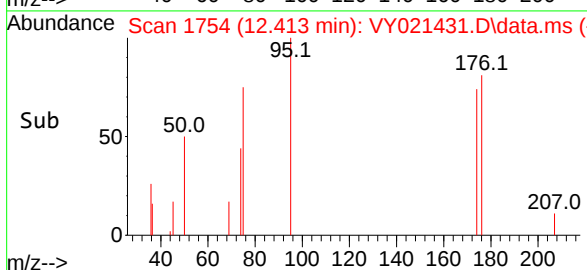
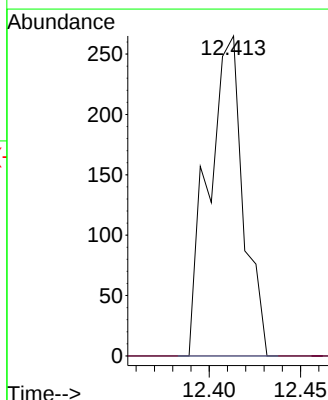
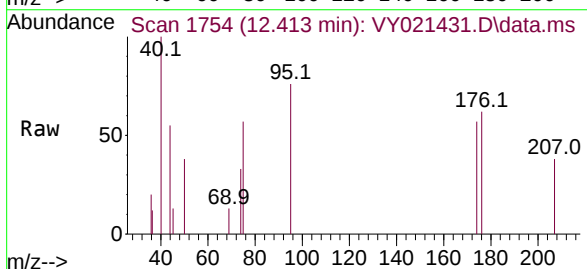
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

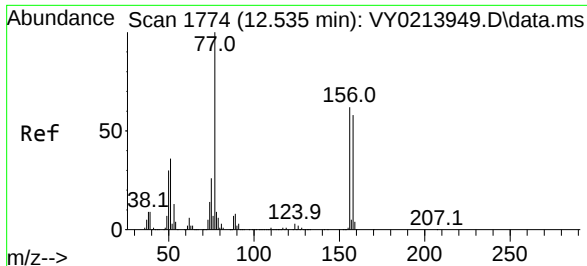
Tgt Ion: 43	Resp:	20
Ion	Ratio	Lower Upper
43	100	
70	0.0	34.6 51.8#
55	0.0	21.1 31.7#
61	0.0	19.4 29.0#



#76
1,2,3-Trichloropropane
Concen: 87.081 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. -0.146 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

Tgt Ion: 75	Resp:	351
Ion	Ratio	Lower Upper
75	100	
77	0.0	0.0 0.0

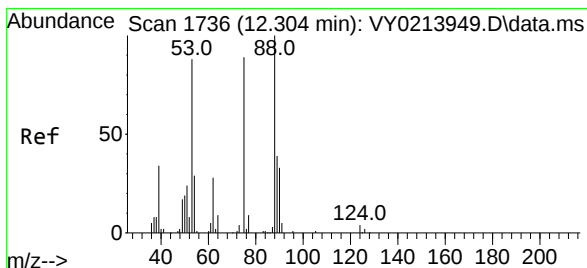
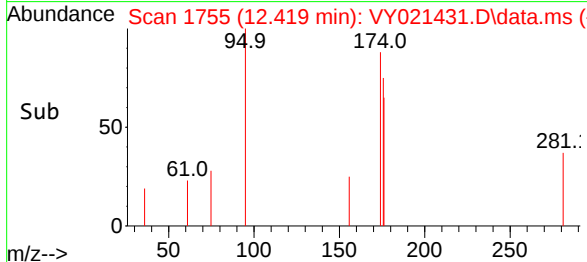
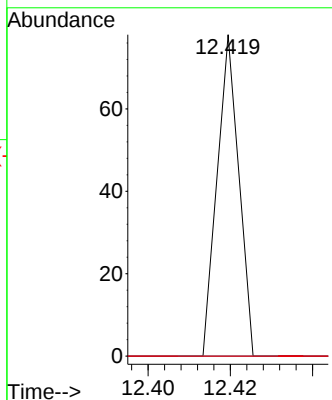
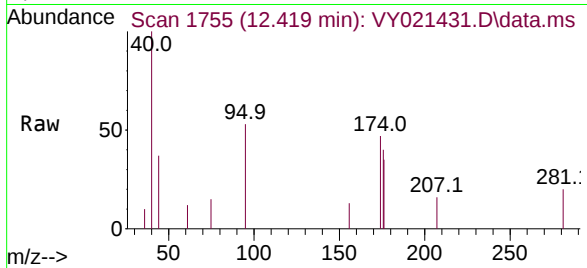




#77
Bromobenzene
Concen: 3.934 ug/l
RT: 12.419 min Scan# 1755
Delta R.T. -0.116 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

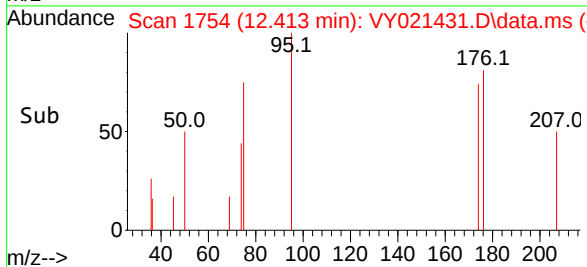
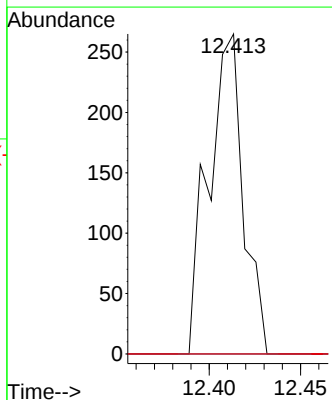
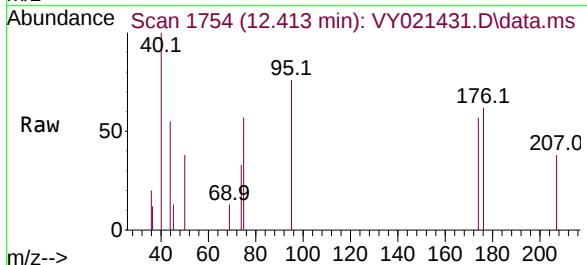
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

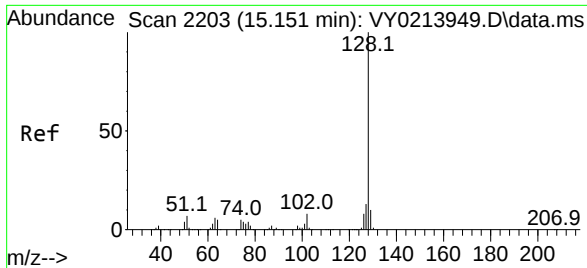
Tgt Ion:156 Resp: 29
Ion Ratio Lower Upper
156 100
77 0.0 93.6 280.8#
158 0.0 48.3 144.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 197.962 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. 0.110 min
Lab File: VY021431.D
Acq: 06 Mar 2025 13:52

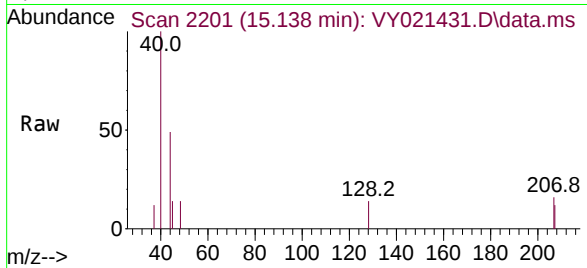
Tgt Ion: 75 Resp: 351
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.0 36.9 55.3#





#95
 Naphthalene
 Concen: 6.024 ug/l
 RT: 15.138 min Scan# 21
 Delta R.T. -0.013 min
 Lab File: VY021431.D
 Acq: 06 Mar 2025 13:52

Instrument : MSVOA_Y
 ClientSampleId : TP-1



Tgt Ion:	128	Resp:	50
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.6	13.0#

