

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031925\
 Data File : VY021568.D
 Acq On : 19 Mar 2025 14:10
 Operator : SY/MD
 Sample : Q1598-03
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11944

Quant Time: Mar 20 01:30:16 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)

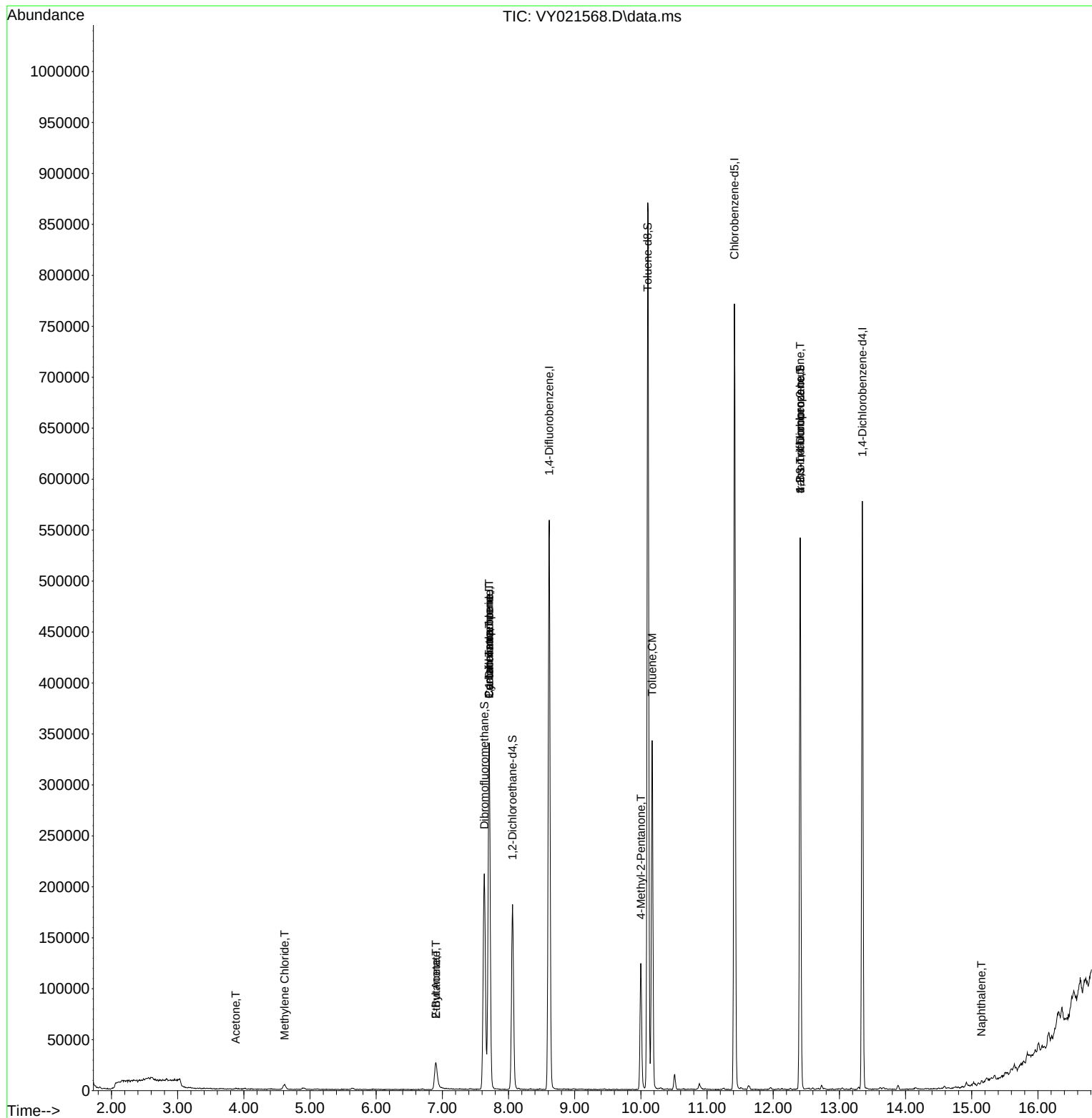
Internal Standards						
1) Pentafluorobenzene	7.707	168	254044	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	456385	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	389374	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	136327	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	140647	52.381	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.760%	
35) Dibromofluoromethane	7.634	113	148070	49.359	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 98.720%	
50) Toluene-d8	10.103	98	565547	49.791	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.580%	
62) 4-Bromofluorobenzene	12.408	95	156764	40.574	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 81.140%	
Target Compounds						Qvalue
11) Tert butyl alcohol	4.848	59	64	Below Cal	#	72
16) Acetone	3.879	43	640	1.093	ug/l	91
20) Methylene Chloride	4.616	84	3314	1.078	ug/l #	72
25) 2-Butanone	6.903	43	43140	53.251	ug/l	99
31) Cyclohexane	7.707	56	6135	1.220	ug/l #	9
36) 1,1-Dichloropropene	7.707	75	21729	4.627	ug/l #	49
37) Ethyl Acetate	6.903	43	43140	20.786	ug/l #	69
38) Carbon Tetrachloride	7.707	117	25648	4.749	ug/l #	17
51) 4-Methyl-2-Pentanone	10.000	43	78055	37.547	ug/l	98
52) Toluene	10.170	92	135260	15.510	ug/l	100
76) 1,2,3-Trichloropropane	12.408	75	83350	60.674	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	83350	137.930	ug/l #	9
95) Naphthalene	15.145	128	2286	2.067	ug/l	96

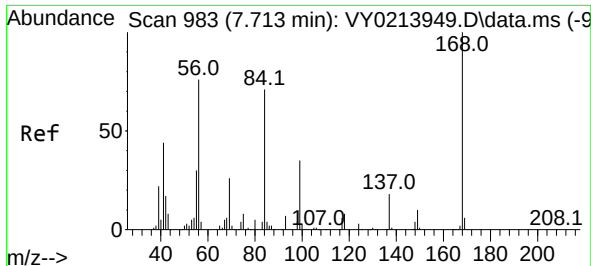
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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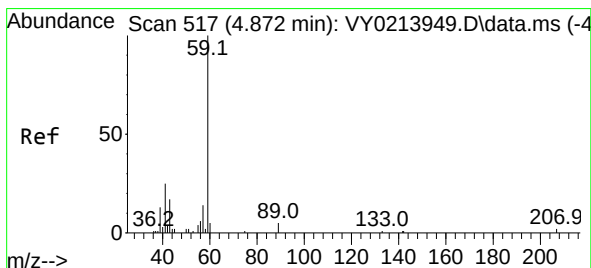
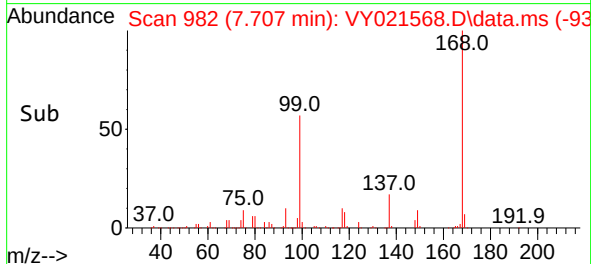
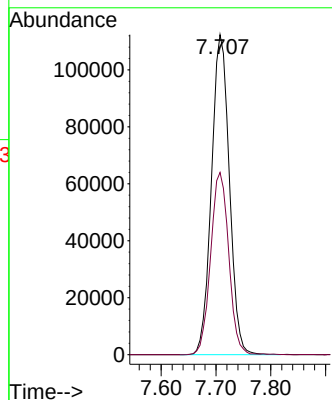
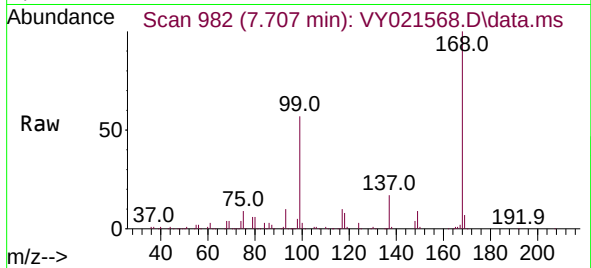




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

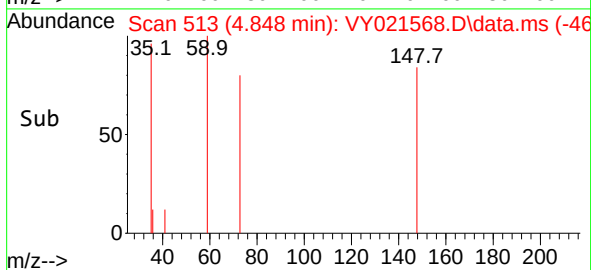
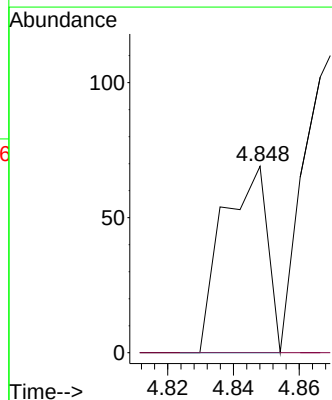
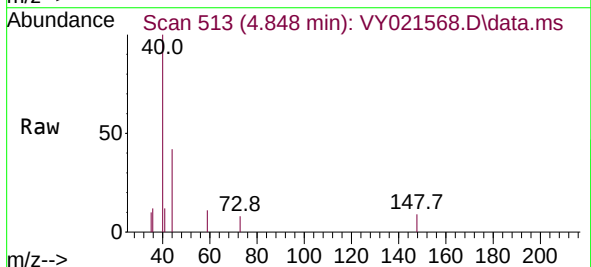
Instrument :
MSVOA_Y
ClientSampleId :
72-11944

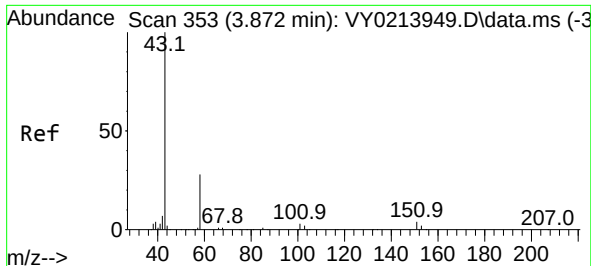
Tgt Ion:168 Resp: 254044
Ion Ratio Lower Upper
168 100
99 56.9 46.0 69.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.848 min Scan# 513
Delta R.T. -0.024 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

Tgt Ion: 59 Resp: 64
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

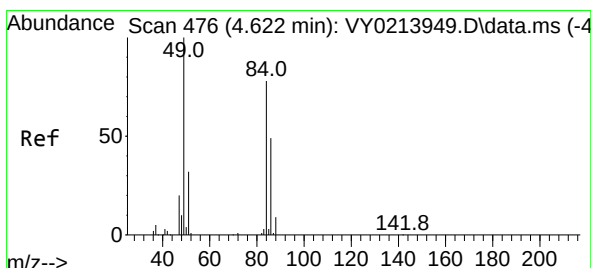
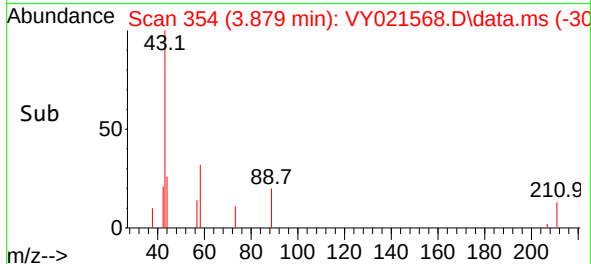
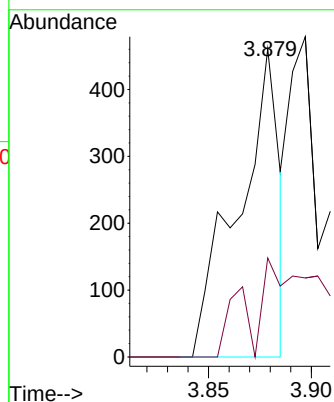
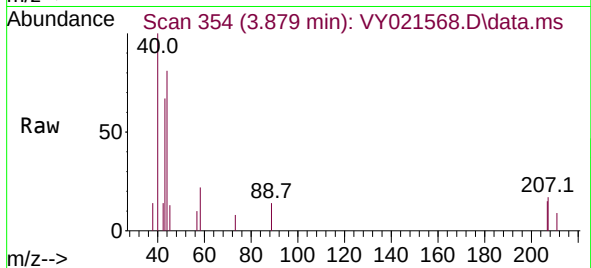




#16
Acetone
Concen: 1.093 ug/l
RT: 3.879 min Scan# 31
Delta R.T. 0.007 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

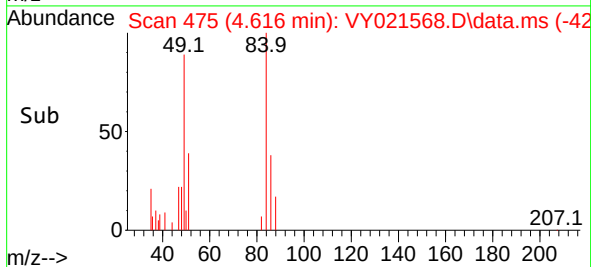
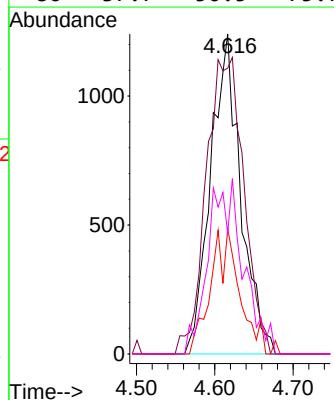
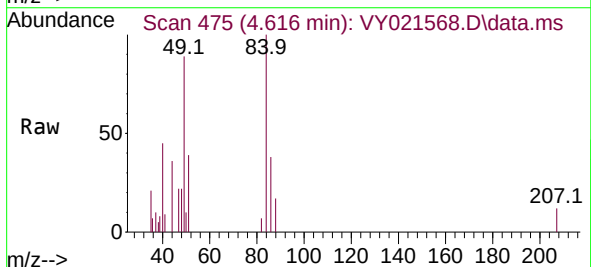
Instrument :
MSVOA_Y
ClientSampleId :
72-11944

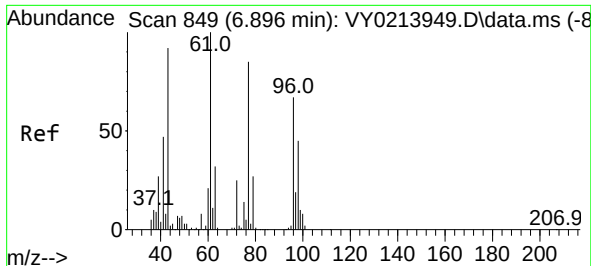
Tgt Ion: 43 Resp: 640
Ion Ratio Lower Upper
43 100
58 32.1 22.1 33.1



#20
Methylene Chloride
Concen: 1.078 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

Tgt Ion: 84 Resp: 3314
Ion Ratio Lower Upper
84 100
49 89.4 102.0 153.0#
51 39.2 33.0 49.6
86 37.7 50.5 75.7#





#25

2-Butanone

Concen: 53.251 ug/l

RT: 6.903 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

Instrument :

MSVOA_Y

ClientSampleId :

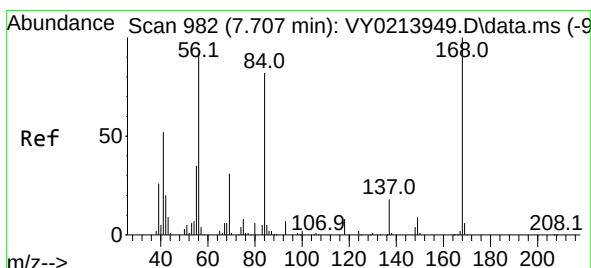
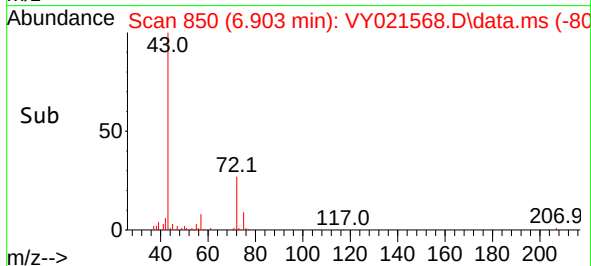
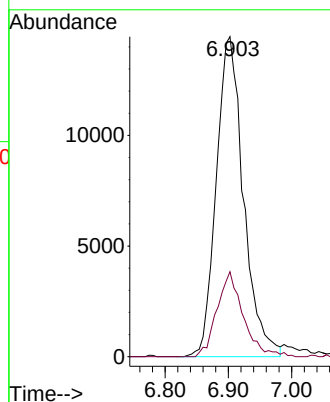
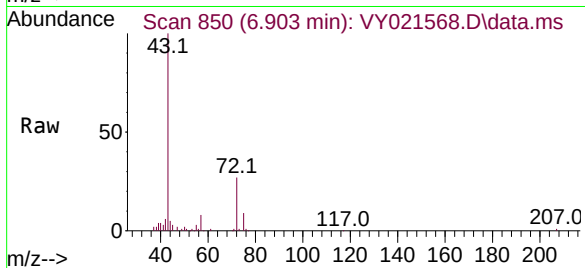
72-11944

Tgt Ion: 43 Resp: 43140

Ion Ratio Lower Upper

43 100

72 26.2 21.4 32.0



#31

Cyclohexane

Concen: 1.220 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.000 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

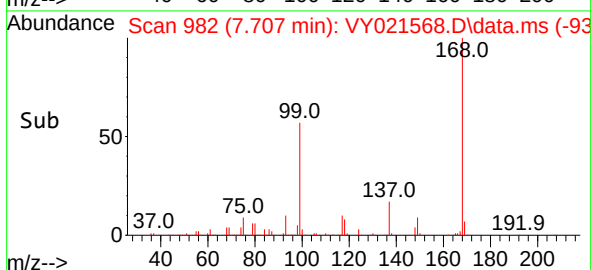
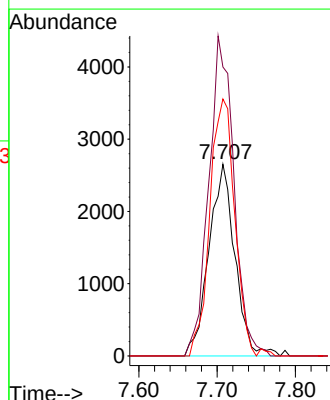
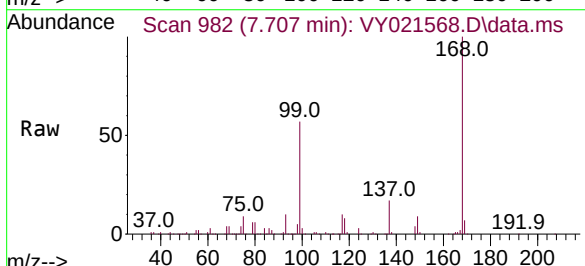
Tgt Ion: 56 Resp: 6135

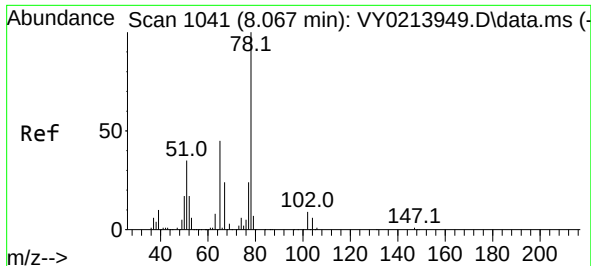
Ion Ratio Lower Upper

56 100

69 150.8 27.0 40.4#

84 134.0 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 52.381 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

Instrument :

MSVOA_Y

ClientSampleId :

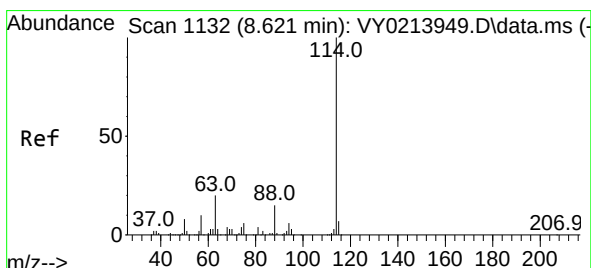
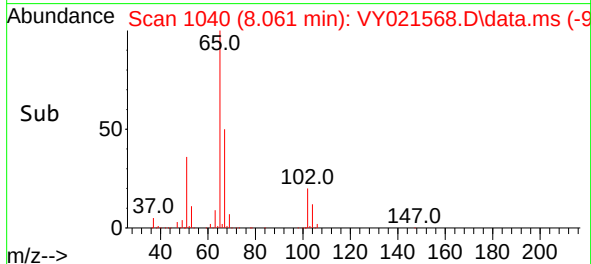
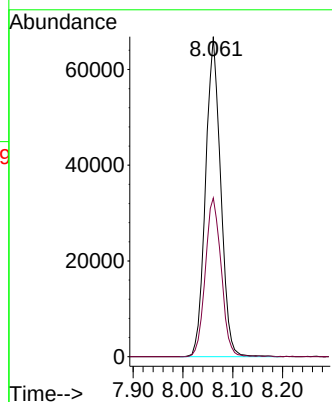
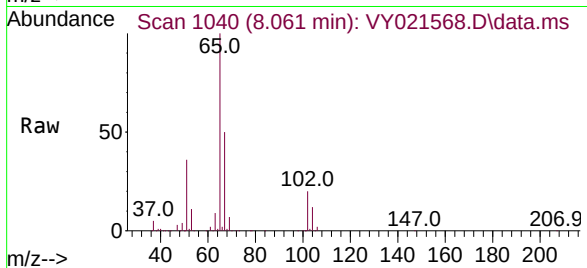
72-11944

Tgt Ion: 65 Resp: 140647

Ion Ratio Lower Upper

65 100

67 52.0 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: VY021568.D

Acq: 19 Mar 2025 14:10

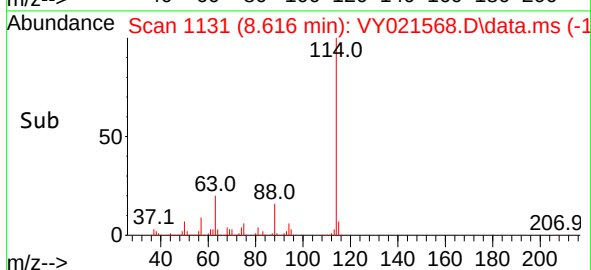
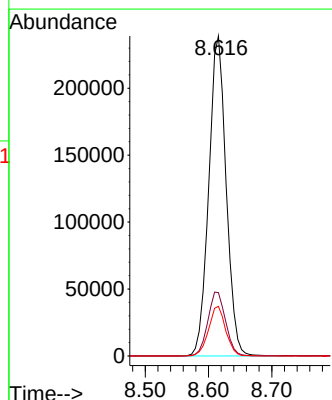
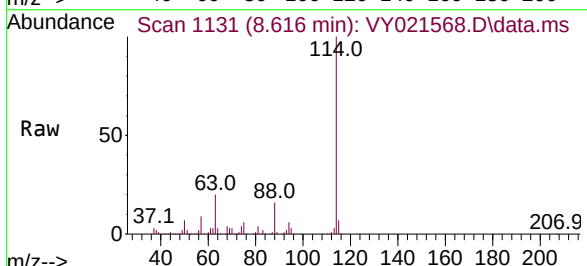
Tgt Ion: 114 Resp: 456385

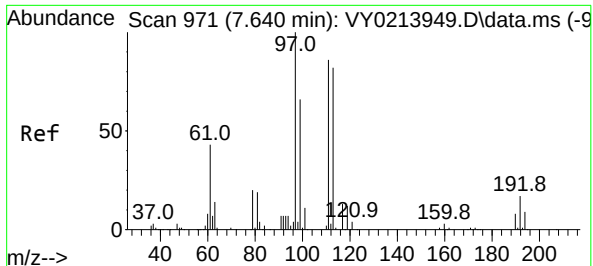
Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.8

88 15.5 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.359 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

Instrument :

MSVOA_Y

ClientSampleId :

72-11944

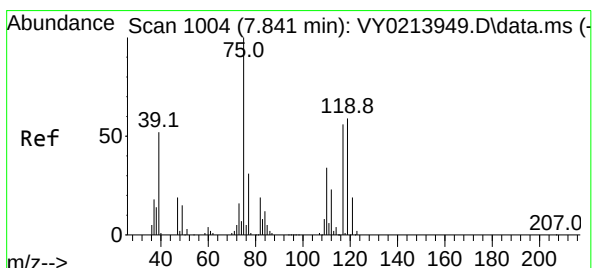
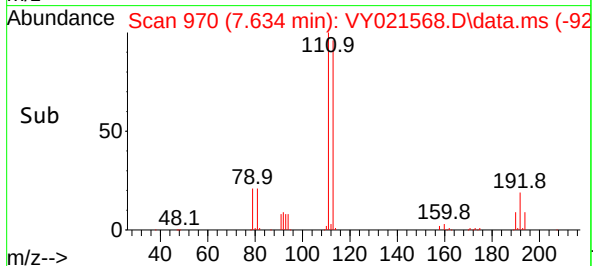
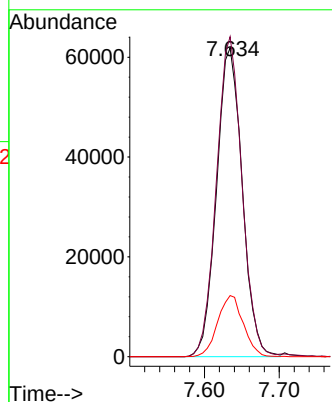
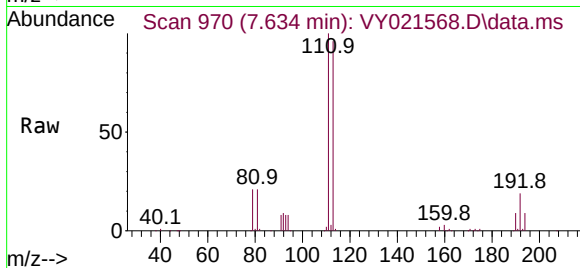
Tgt Ion:113 Resp: 148070

Ion Ratio Lower Upper

113 100

111 103.4 82.0 123.0

192 19.8 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.627 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

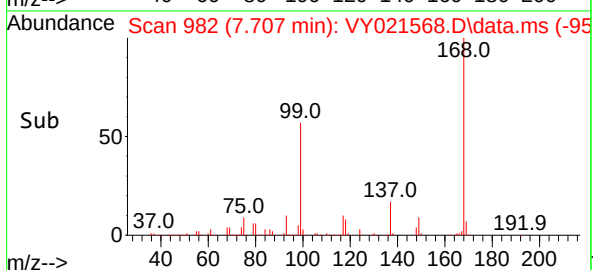
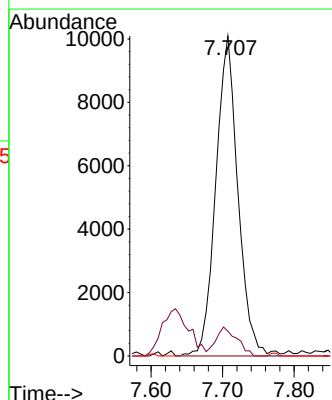
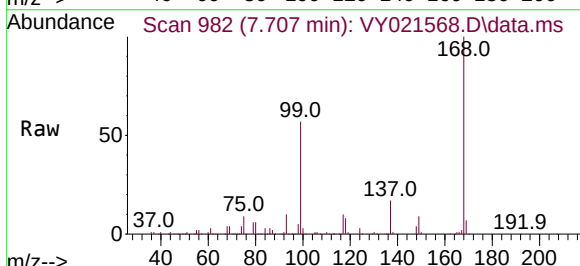
Tgt Ion: 75 Resp: 21729

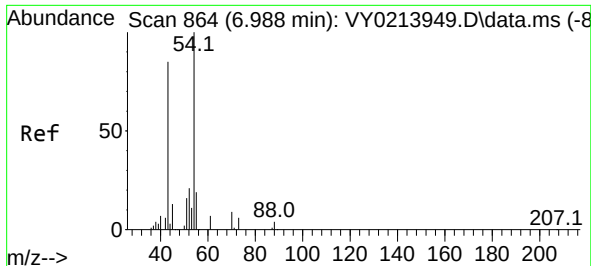
Ion Ratio Lower Upper

75 100

110 8.5 17.3 51.7#

77 0.0 25.4 38.2#





#37

Ethyl Acetate

Concen: 20.786 ug/l

RT: 6.903 min Scan# 81

Delta R.T. -0.085 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

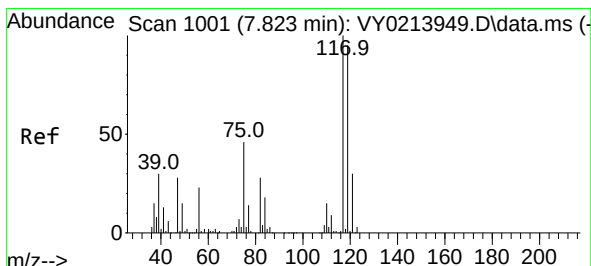
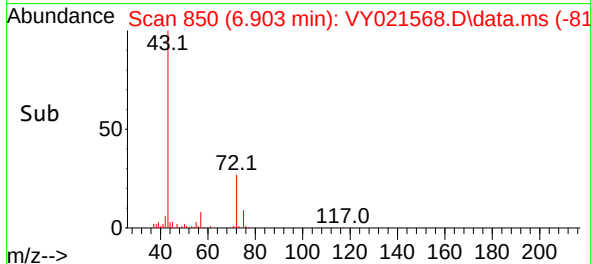
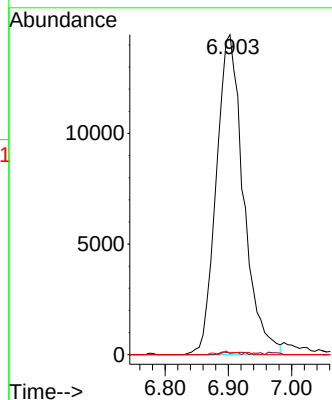
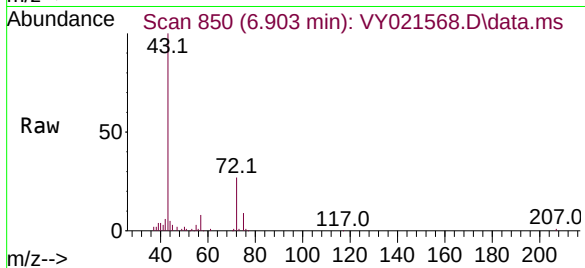
Instrument :

MSVOA_Y

ClientSampleId :

72-11944

Tgt Ion:	43	Resp:	43140
Ion	Ratio	Lower	Upper
43	100		
61	0.4	11.4	17.0#
70	0.5	8.2	12.2#



#38

Carbon Tetrachloride

Concen: 4.749 ug/l

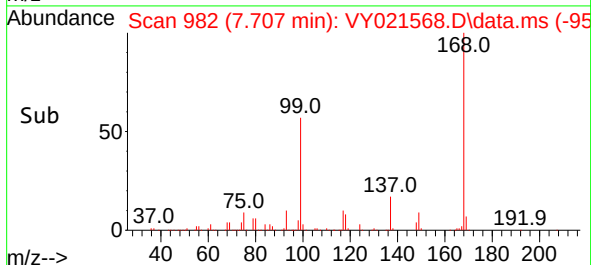
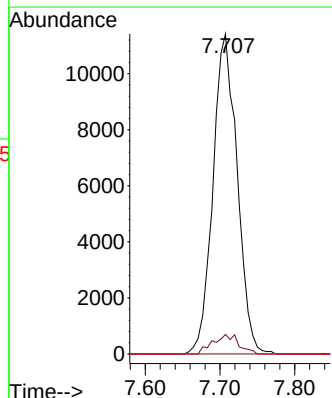
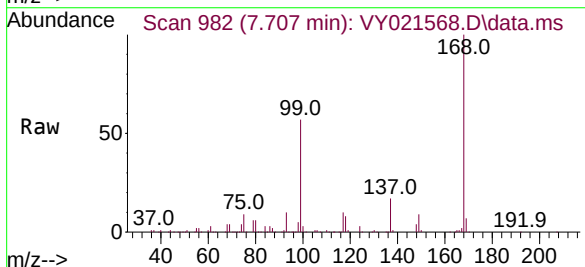
RT: 7.707 min Scan# 982

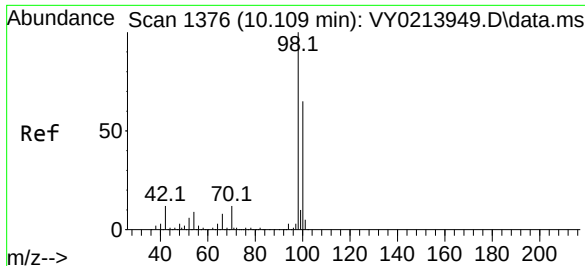
Delta R.T. -0.115 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

Tgt Ion:	117	Resp:	25648
Ion	Ratio	Lower	Upper
117	100		
119	6.1	75.8	113.8#
121	0.0	23.9	35.9#

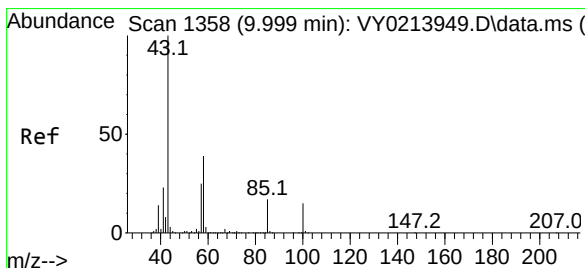
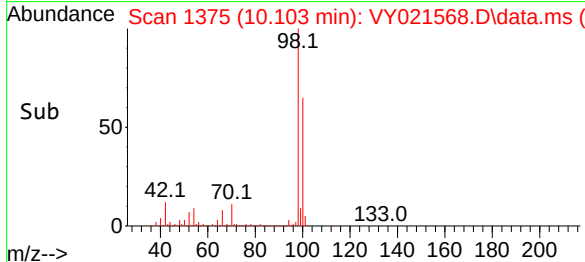
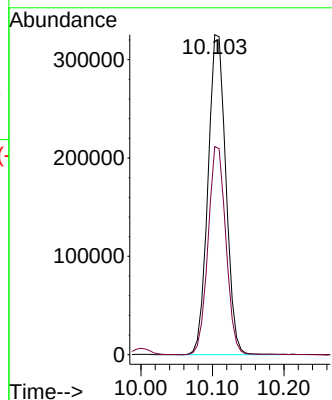
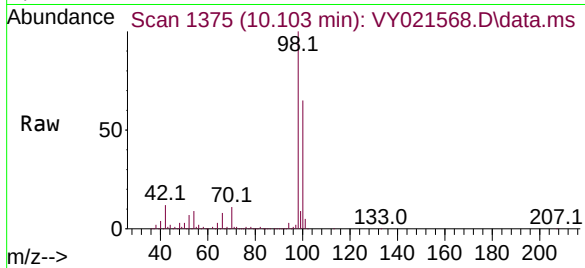




#50
Toluene-d8
Concen: 49.791 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

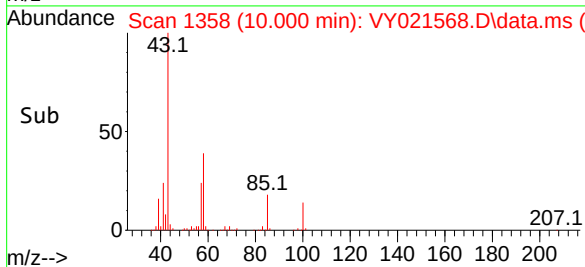
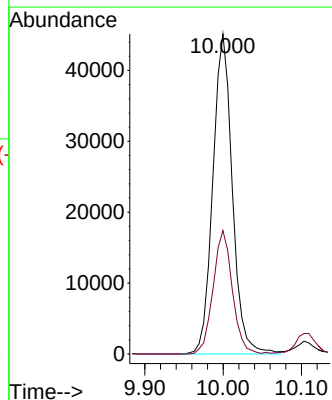
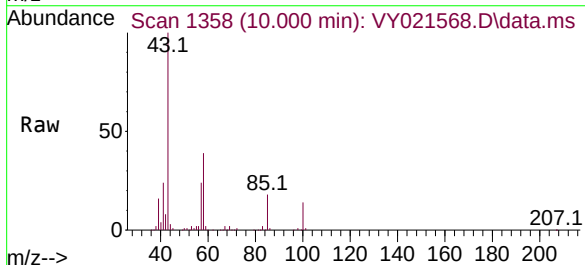
Instrument :
MSVOA_Y
ClientSampleId :
72-11944

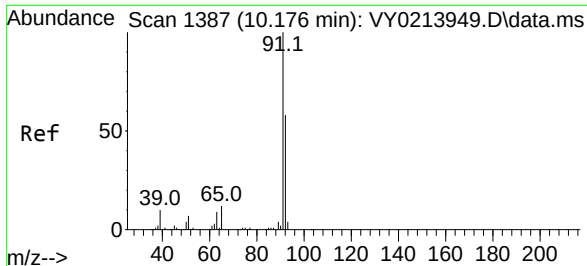
Tgt Ion: 98 Resp: 565547
Ion Ratio Lower Upper
98 100
100 64.8 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 37.547 ug/l
RT: 10.000 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

Tgt Ion: 43 Resp: 78055
Ion Ratio Lower Upper
43 100
58 38.0 31.4 47.2





#52

Toluene

Concen: 15.510 ug/l

RT: 10.170 min Scan# 1386

Delta R.T. -0.006 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

Instrument :

MSVOA_Y

ClientSampleId :

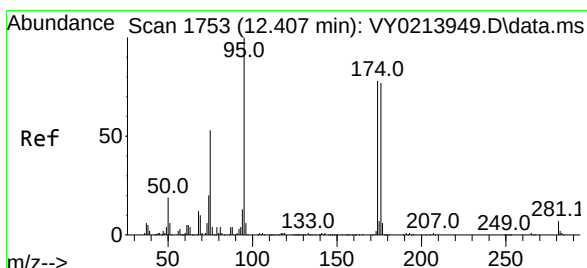
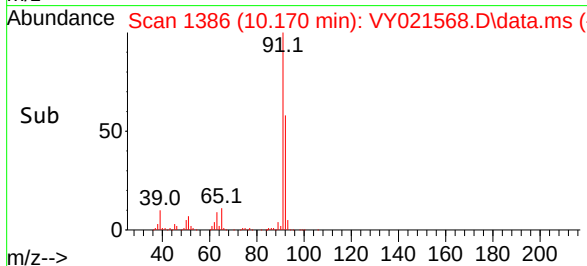
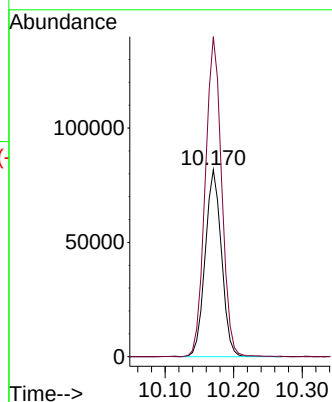
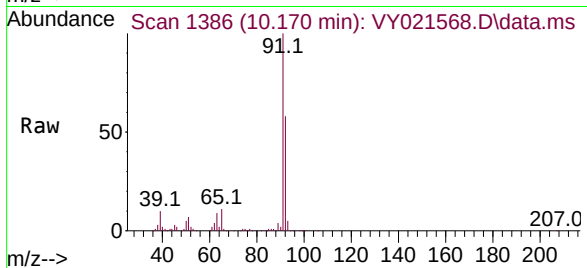
72-11944

Tgt Ion: 92 Resp: 135260

Ion Ratio Lower Upper

92 100

91 172.7 138.2 207.2



#62

4-Bromofluorobenzene

Concen: 40.574 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY021568.D

Acq: 19 Mar 2025 14:10

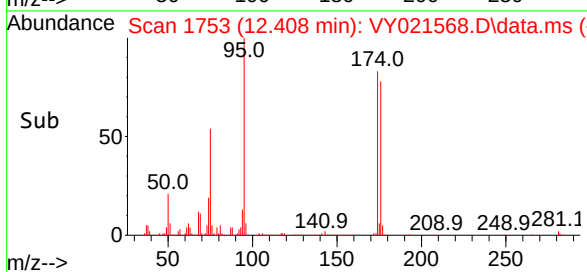
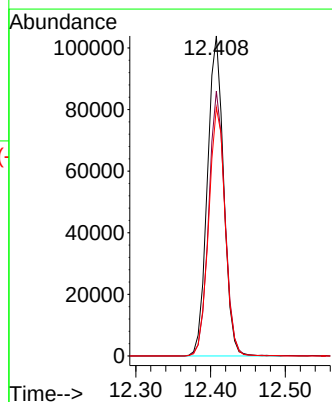
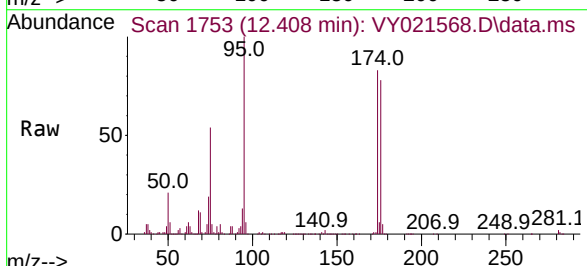
Tgt Ion: 95 Resp: 156764

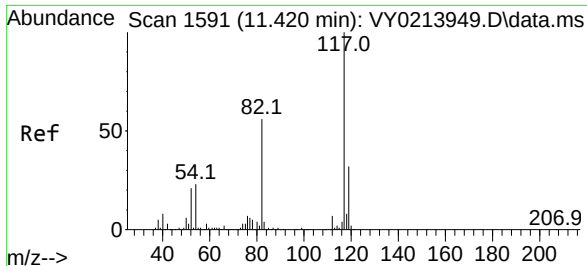
Ion Ratio Lower Upper

95 100

174 82.5 0.0 165.0

176 79.0 0.0 160.0

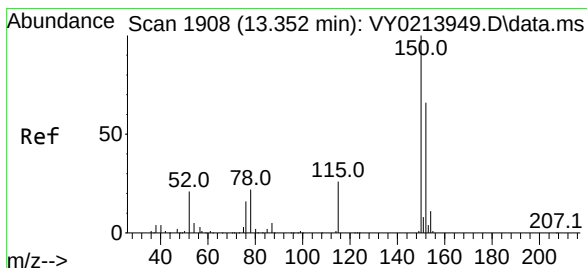
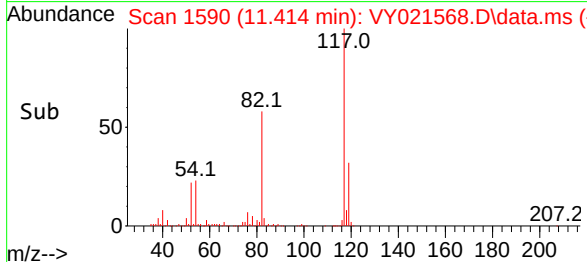
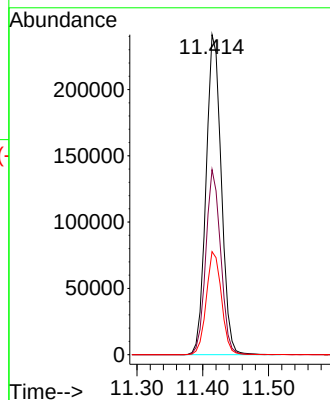
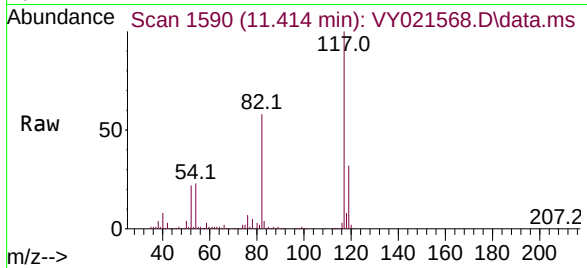




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

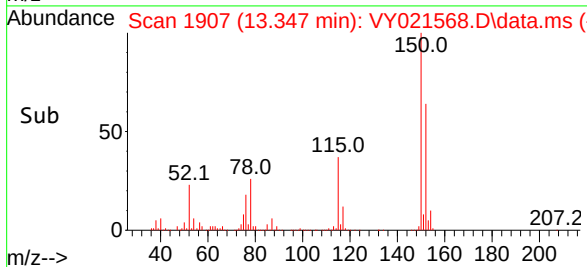
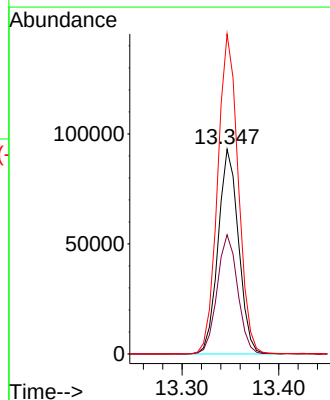
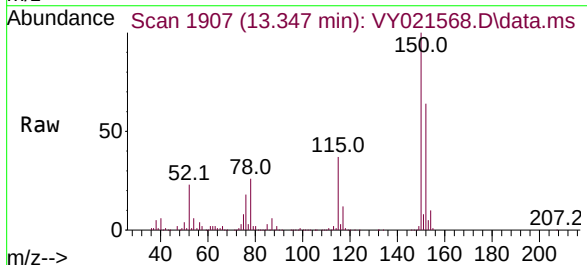
Instrument :
MSVOA_Y
ClientSampleId :
72-11944

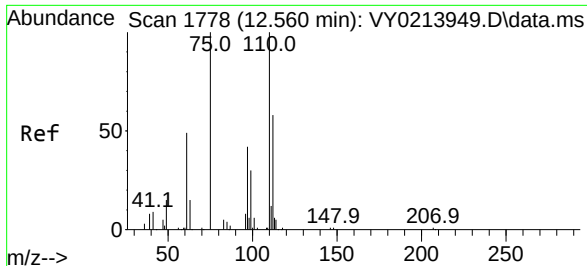
Tgt Ion:	117	Resp:	389374
Ion	Ratio	Lower	Upper
117	100		
82	57.8	44.6	67.0
119	32.2	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

Tgt Ion:	152	Resp:	136327
Ion	Ratio	Lower	Upper
152	100		
115	58.7	29.0	87.0
150	157.6	0.0	347.2

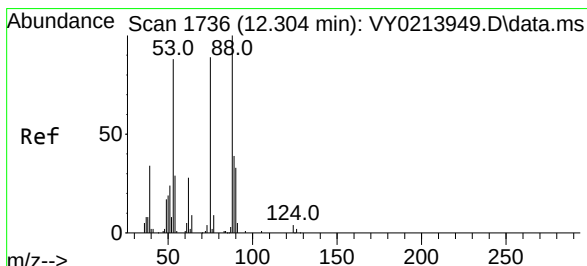
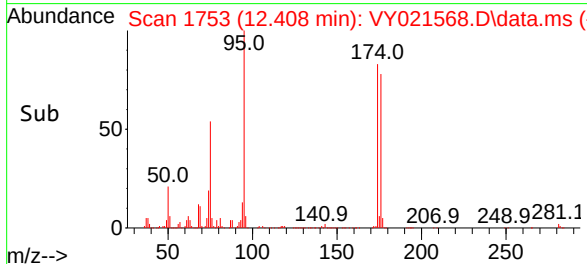
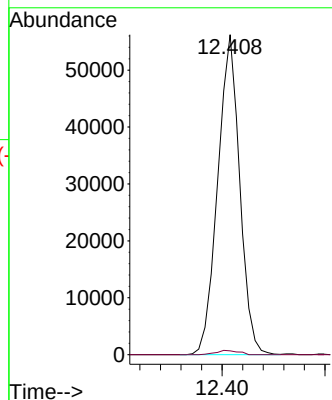
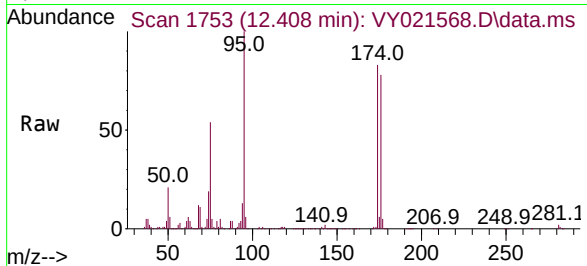




#76
1,2,3-Trichloropropane
Concen: 60.674 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

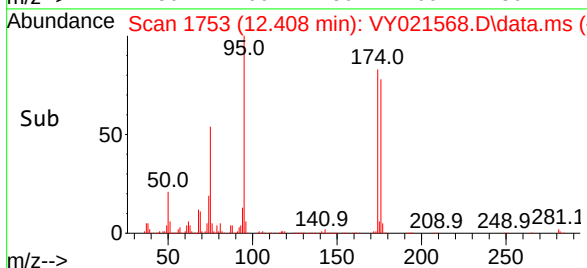
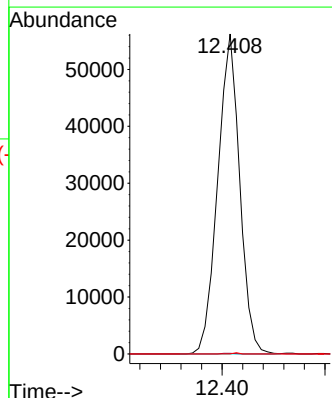
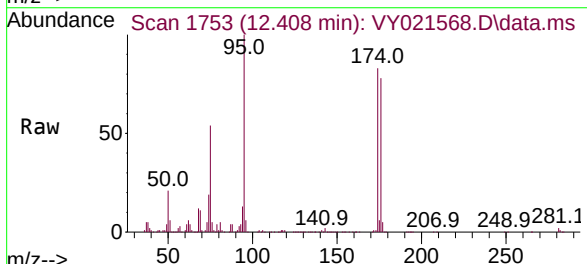
Instrument :
MSVOA_Y
ClientSampleId :
72-11944

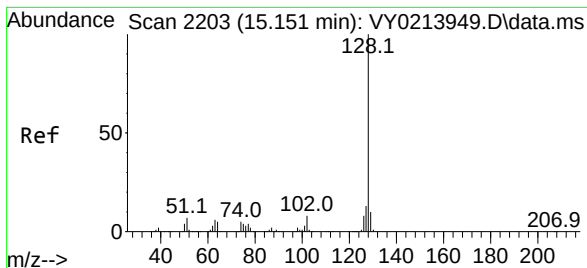
Tgt Ion: 75 Resp: 83350
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 137.930 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY021568.D
Acq: 19 Mar 2025 14:10

Tgt Ion: 75 Resp: 83350
Ion Ratio Lower Upper
75 100
53 0.1 81.0 121.4#
89 0.1 36.9 55.3#





#95

Naphthalene

Concen: 2.067 ug/l

RT: 15.145 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY021568.D

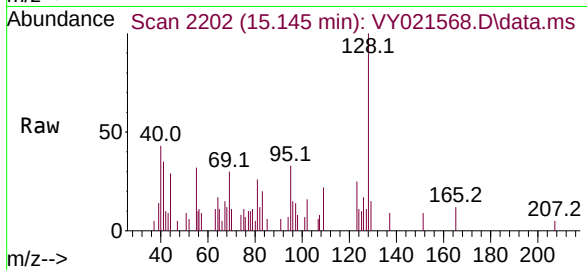
Acq: 19 Mar 2025 14:10

Instrument :

MSVOA_Y

ClientSampleId :

72-11944



Tgt Ion:128 Resp: 2286

Ion Ratio Lower Upper

128 100

127 11.5 10.6 15.8

129 12.5 8.6 13.0

