

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041525\
 Data File : VY021888.D
 Acq On : 15 Apr 2025 12:05
 Operator : SY/MD
 Sample : Q1785-03
 Misc : 5.29g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-03-041125

Quant Time: Apr 16 03:01:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

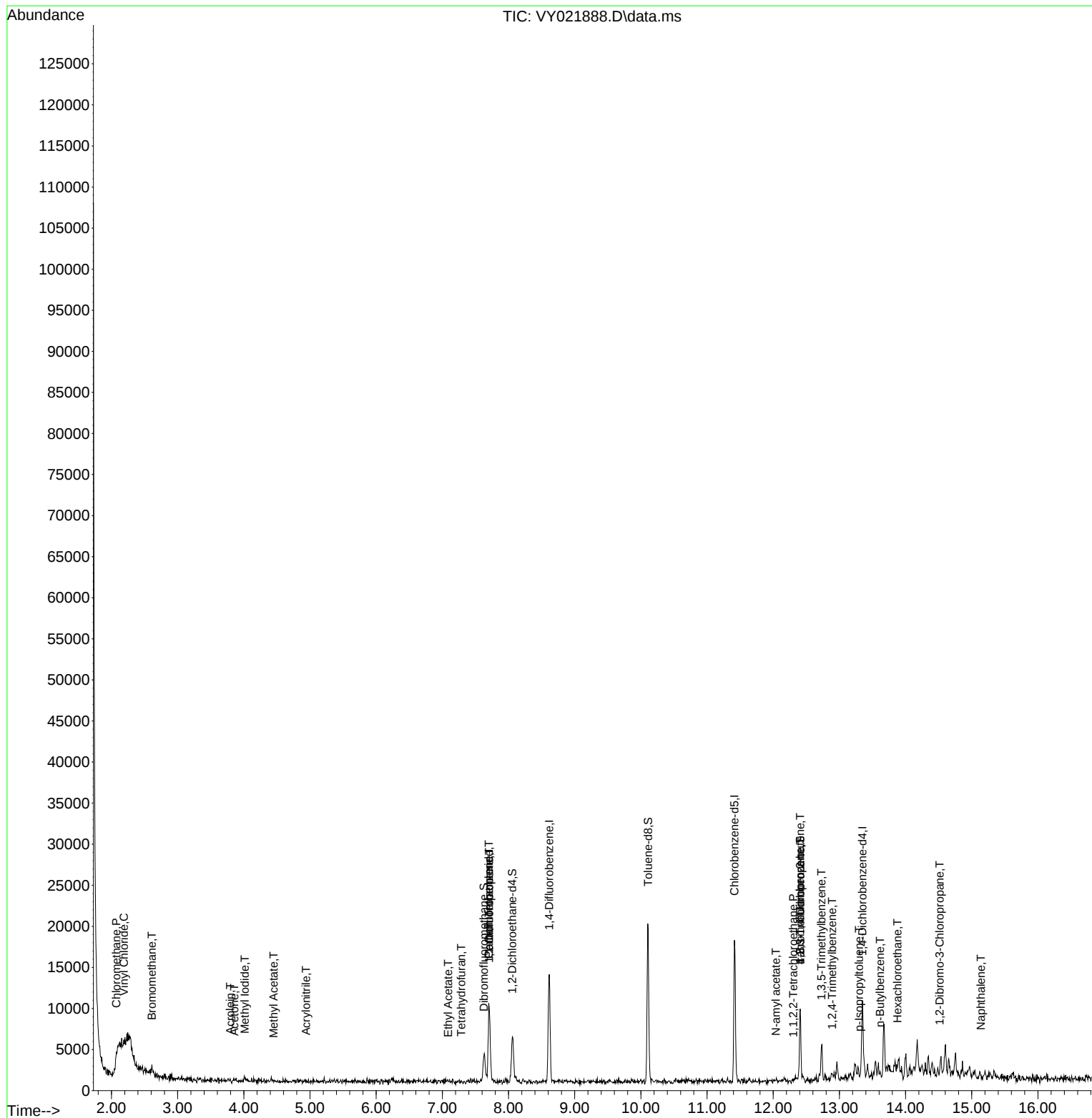
Internal Standards						
1) Pentafluorobenzene	7.701	168	7018	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	11233	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	8701	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	2106	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	4799	63.113	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 126.220%	
35) Dibromofluoromethane	7.628	113	2591	35.558	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 71.120%	
50) Toluene-d8	10.109	98	13062	47.120	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.240%	
62) 4-Bromofluorobenzene	12.408	95	2752	29.350	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 58.700%	
Target Compounds						Qvalue
3) Chloromethane	2.074	50	462	4.517	ug/l #	35
4) Vinyl Chloride	2.190	62	304	2.628	ug/l #	43
5) Bromomethane	2.611	94	517	6.553	ug/l	98
10) Methyl Iodide	4.013	142	606	7.068	ug/l #	75
13) Acrolein	3.793	56	22	2.440	ug/l #	14
15) Acrylonitrile	4.939	53	21	1.248	ug/l #	18
16) Acetone	3.854	43	233	14.972	ug/l #	44
18) Methyl Acetate	4.452	43	75	1.945	ug/l #	51
29) Tetrahydrofuran	7.287	42	19	1.328	ug/l #	34
36) 1,1-Dichloropropene	7.707	75	710	6.397	ug/l #	45
37) Ethyl Acetate	7.085	43	73	1.394	ug/l #	69
38) Carbon Tetrachloride	7.701	117	723	5.688	ug/l #	12
74) N-amyl acetate	12.042	43	113	3.078	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.304	83	34	1.209	ug/l #	25
76) 1,2,3-Trichloropropane	12.408	75	1506	72.141	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.731	105	500	3.911	ug/l	75
81) trans-1,4-Dichloro-2-b...	12.408	75	1506	166.224	ug/l #	12
84) 1,2,4-Trimethylbenzene	12.889	105	518	4.100	ug/l	74
86) p-Isopropyltoluene	13.298	119	263	1.912	ug/l #	50
89) n-Butylbenzene	13.615	91	197	1.549	ug/l #	46
90) Hexachloroethane	13.877	117	55	1.825	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.517	75	20	4.588	ug/l #	1
95) Naphthalene	15.139	128	224	3.869	ug/l #	68

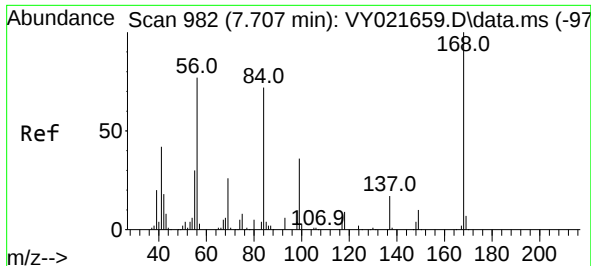
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

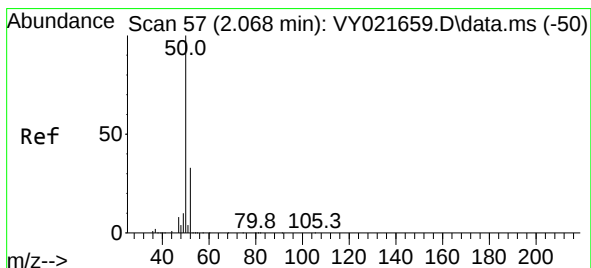
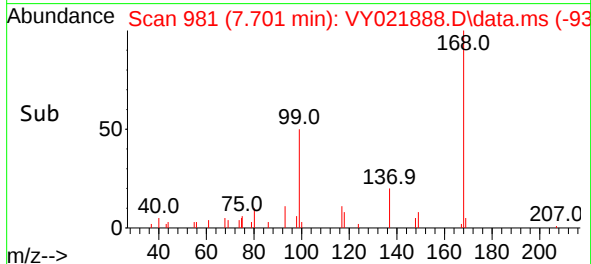
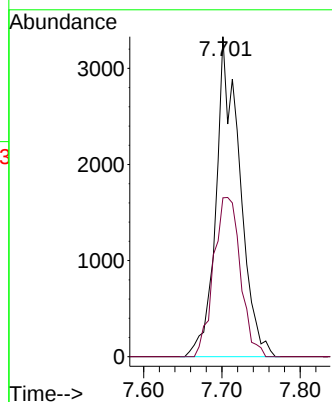
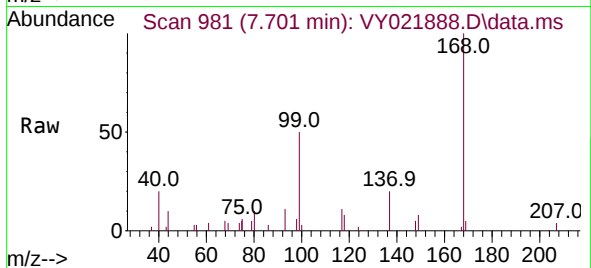




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 99
Delta R.T. -0.006 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

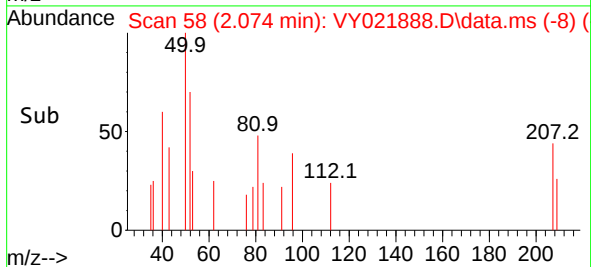
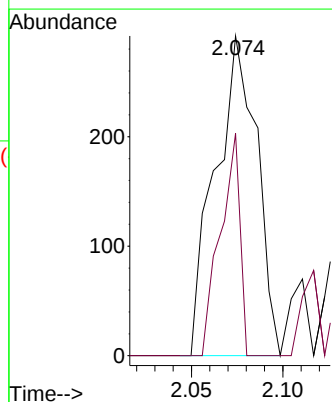
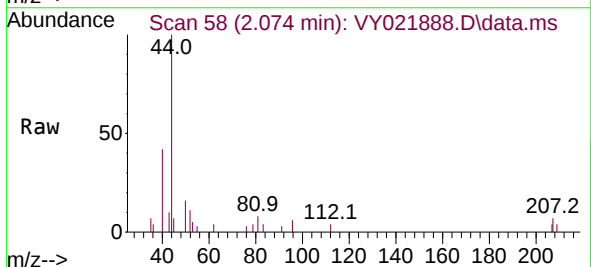
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-041125

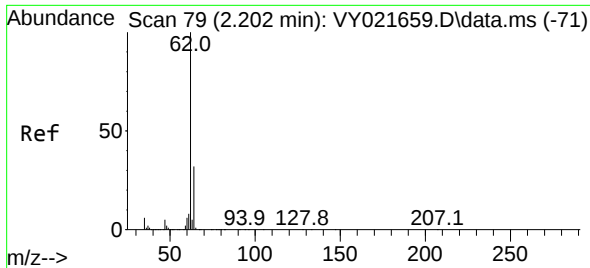
Tgt Ion:168 Resp: 7018
Ion Ratio Lower Upper
168 100
99 49.6 46.7 70.1



#3
Chloromethane
Concen: 4.517 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion: 50 Resp: 462
Ion Ratio Lower Upper
50 100
52 69.5 26.3 39.5#

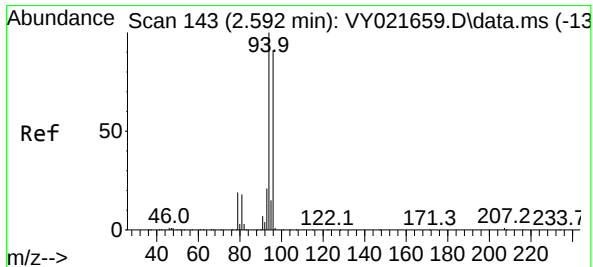
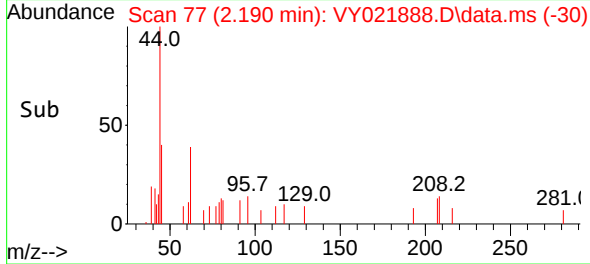
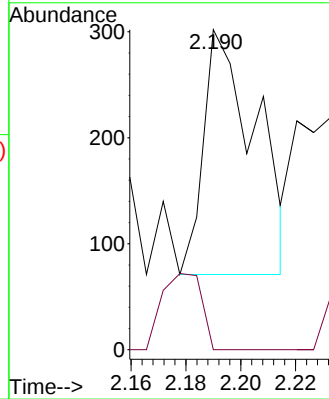
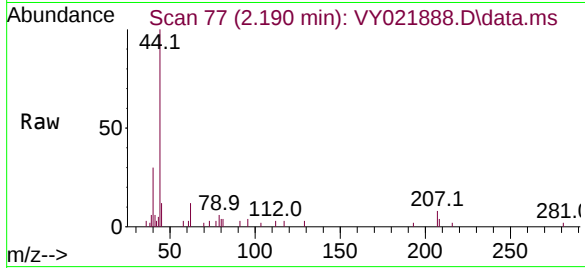




#4
 Vinyl Chloride
 Concen: 2.628 ug/l
 RT: 2.190 min Scan# 71
 Delta R.T. -0.012 min
 Lab File: VY021888.D
 Acq: 15 Apr 2025 12:05

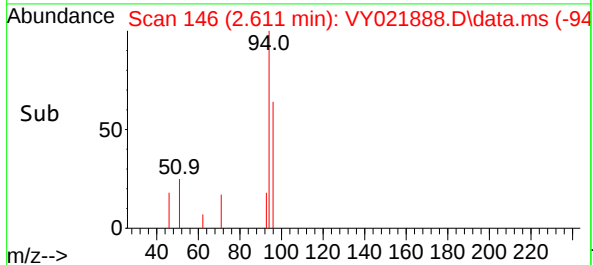
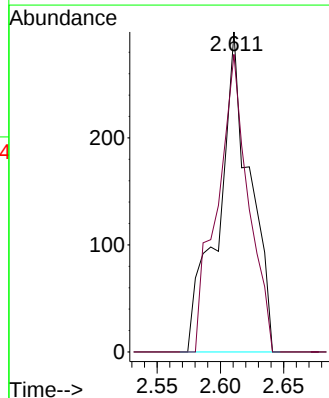
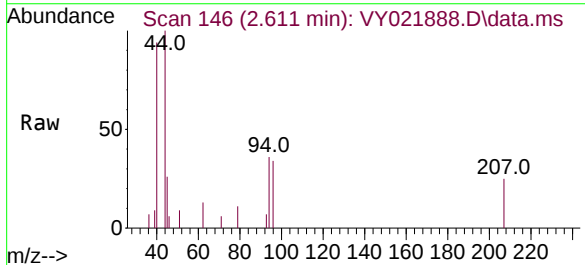
Instrument :
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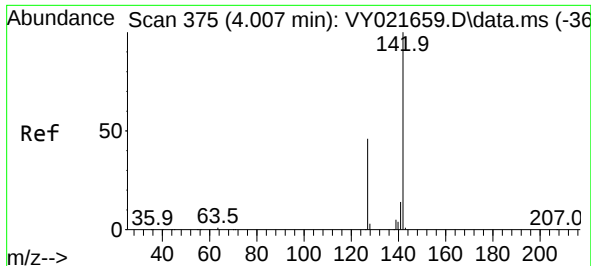
Tgt Ion: 62 Resp: 304
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.5 38.3#



#5
 Bromomethane
 Concen: 6.553 ug/l
 RT: 2.611 min Scan# 146
 Delta R.T. 0.018 min
 Lab File: VY021888.D
 Acq: 15 Apr 2025 12:05

Tgt Ion: 94 Resp: 517
 Ion Ratio Lower Upper
 94 100
 96 93.0 72.8 109.2

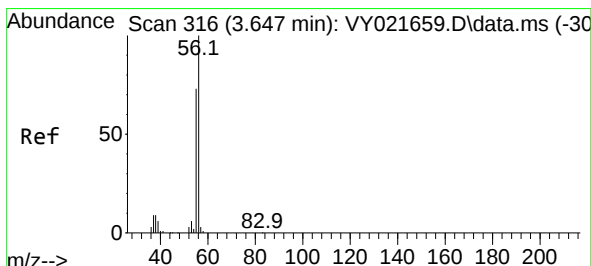
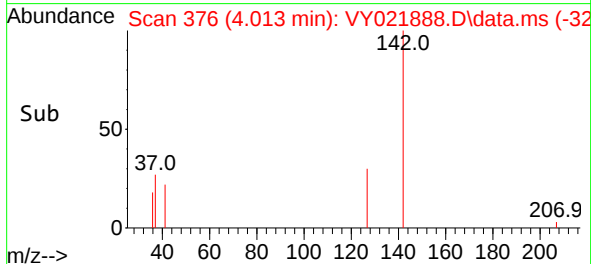
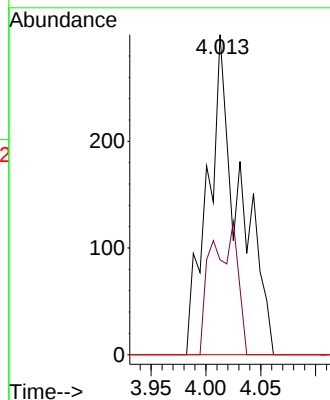
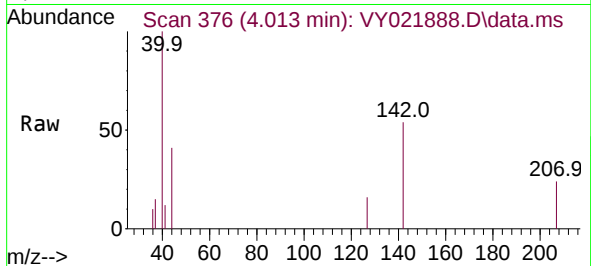




#10
Methyl Iodide
Concen: 7.068 ug/l
RT: 4.013 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

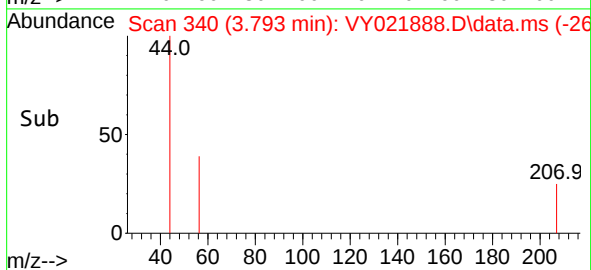
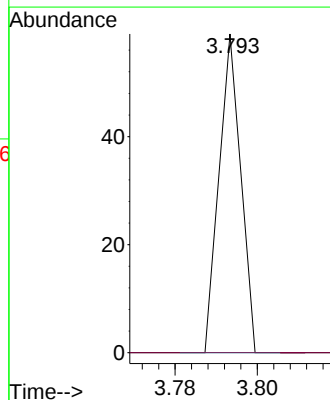
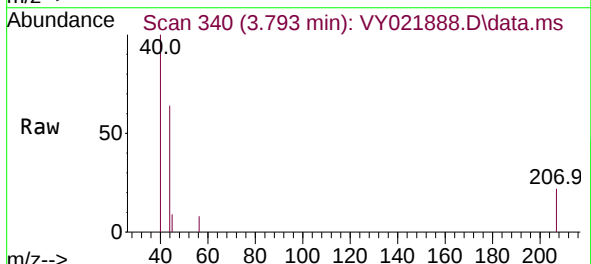
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-041125

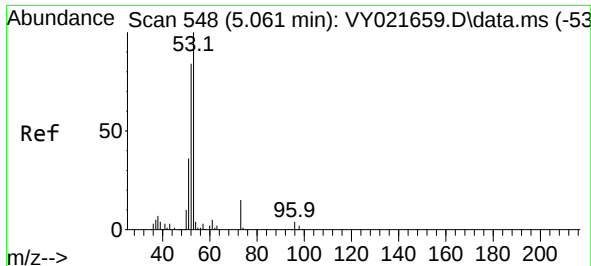
Tgt Ion:142 Resp: 606
Ion Ratio Lower Upper
142 100
127 33.7 38.7 58.1#
141 0.0 11.5 17.3#



#13
Acrolein
Concen: 2.440 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.147 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion: 56 Resp: 22
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#

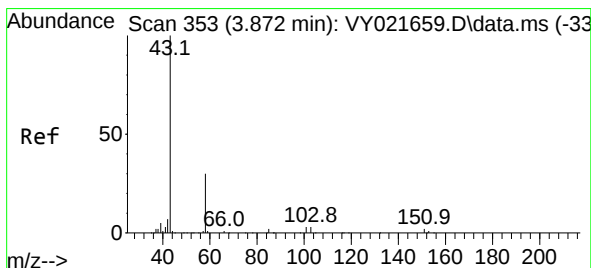
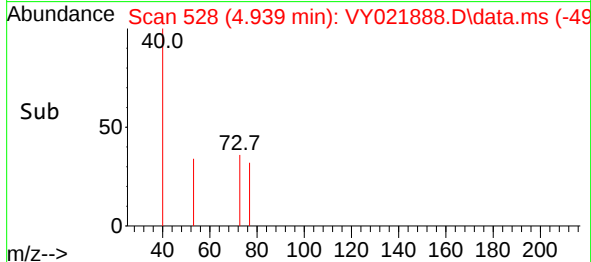
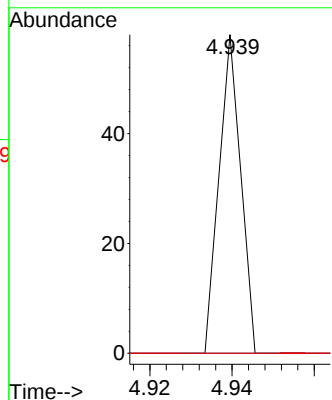
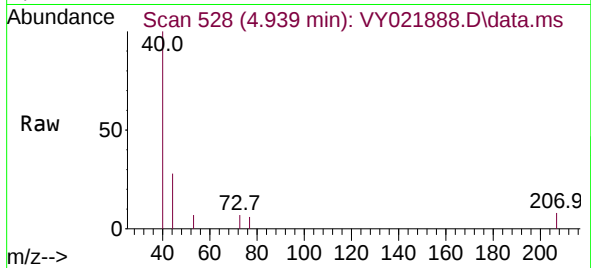




#15
Acrylonitrile
Concen: 1.248 ug/l
RT: 4.939 min Scan# 51
Delta R.T. -0.122 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

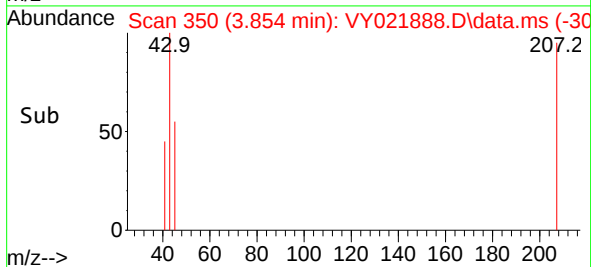
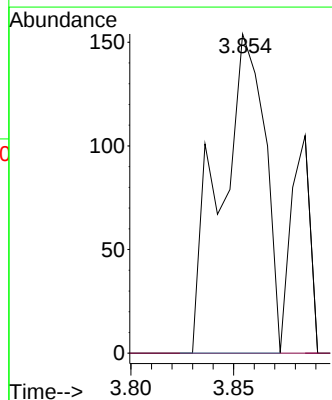
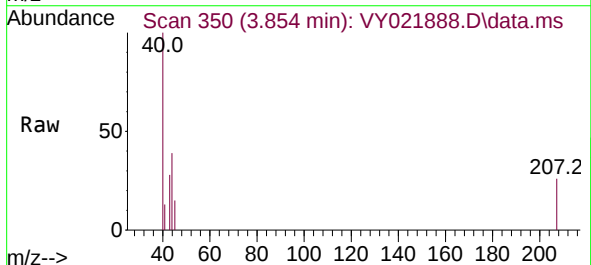
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-041125

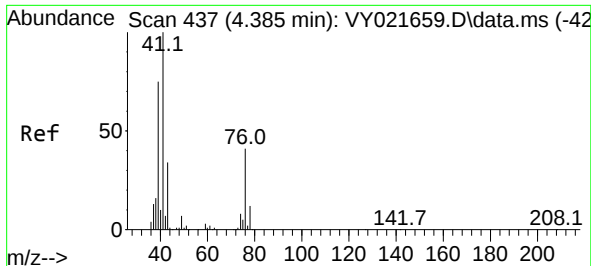
Tgt Ion: 53 Resp: 21
Ion Ratio Lower Upper
53 100
52 0.0 64.9 97.3#
51 0.0 30.2 45.2#



#16
Acetone
Concen: 14.972 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.018 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion: 43 Resp: 233
Ion Ratio Lower Upper
43 100
58 0.0 24.2 36.4#

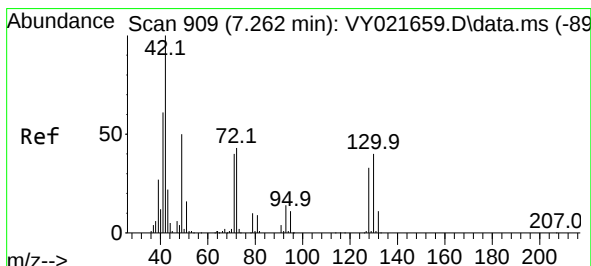
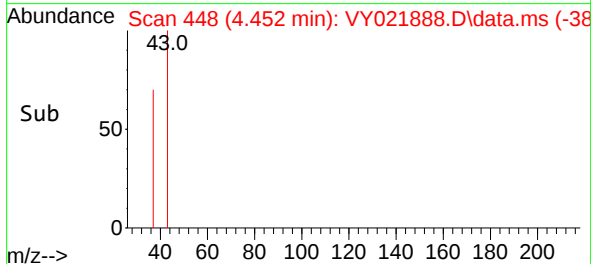
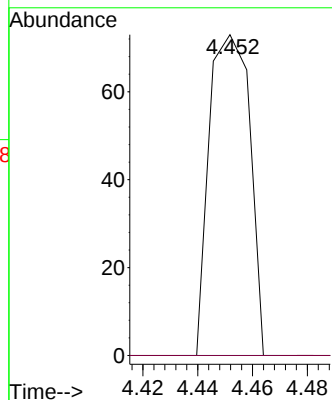
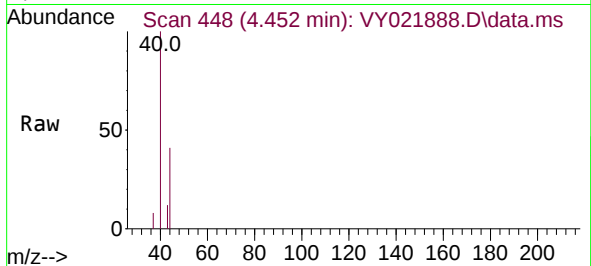




#18
Methyl Acetate
Concen: 1.945 ug/l
RT: 4.452 min Scan# 44
Delta R.T. 0.067 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

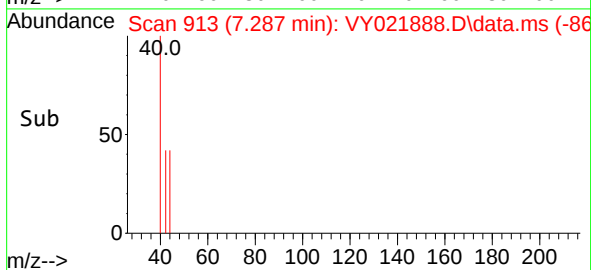
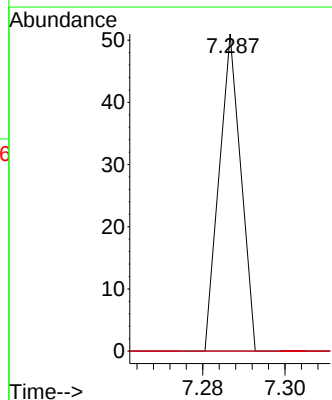
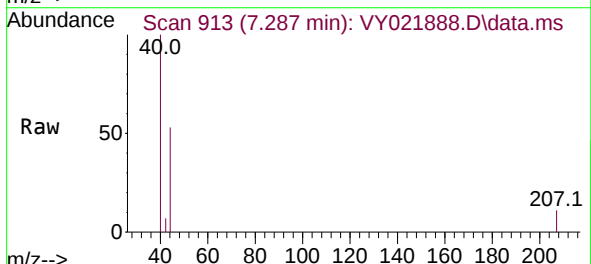
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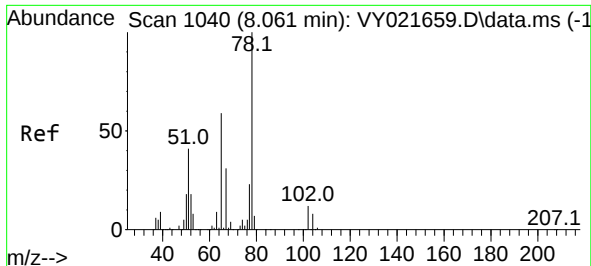
Tgt Ion: 43 Resp: 75
Ion Ratio Lower Upper
43 100
74 0.0 19.1 28.7#



#29
Tetrahydrofuran
Concen: 1.328 ug/l
RT: 7.287 min Scan# 913
Delta R.T. 0.025 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion: 42 Resp: 19
Ion Ratio Lower Upper
42 100
72 0.0 34.6 52.0#
71 0.0 32.5 48.7#





#33

1,2-Dichloroethane-d4

Concen: 63.113 ug/l

RT: 8.055 min Scan# 1103

Delta R.T. -0.006 min

Lab File: VY021888.D

Acq: 15 Apr 2025 12:05

Instrument :

MSVOA_Y

ClientSampleId :

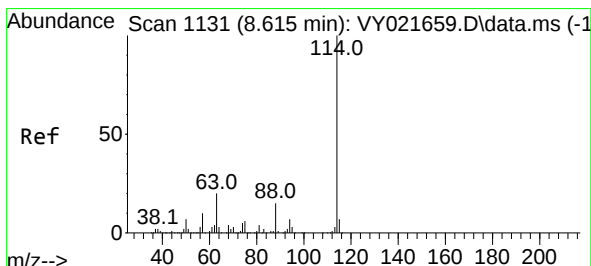
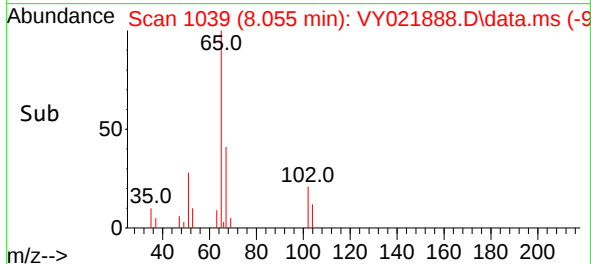
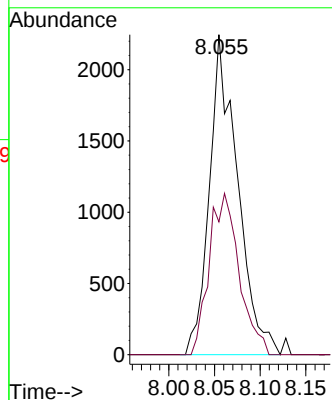
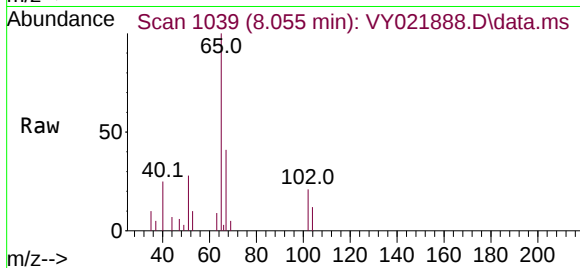
HR-03-041125

Tgt Ion: 65 Resp: 4799

Ion Ratio Lower Upper

65 100

67 53.8 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021888.D

Acq: 15 Apr 2025 12:05

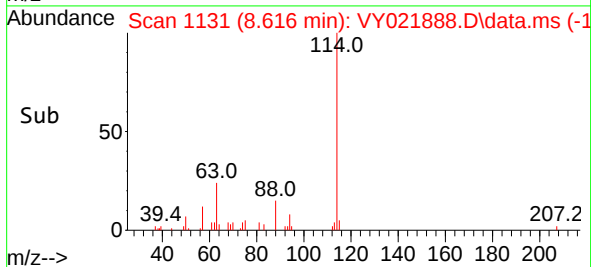
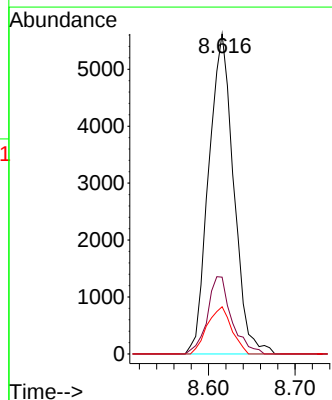
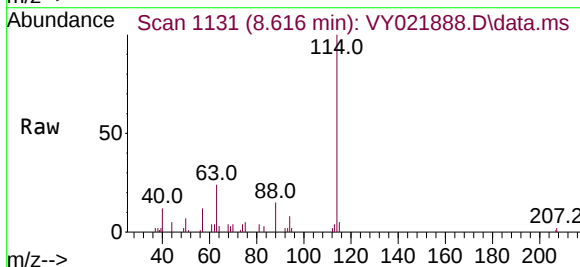
Tgt Ion: 114 Resp: 11233

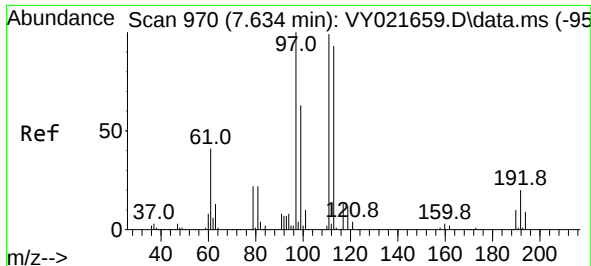
Ion Ratio Lower Upper

114 100

63 24.0 0.0 40.2

88 14.8 0.0 29.8

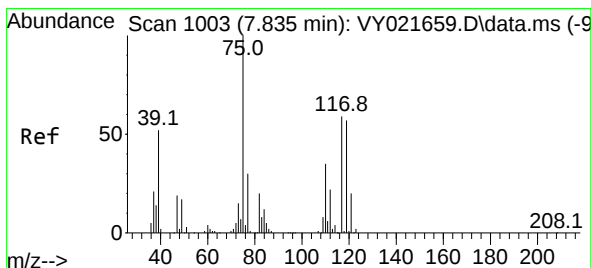
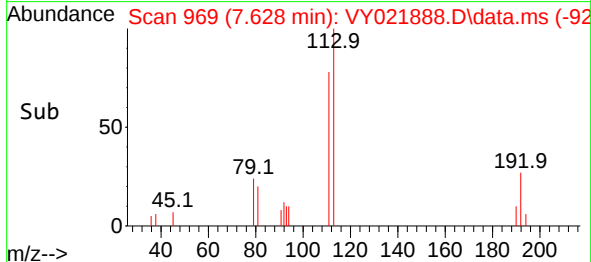
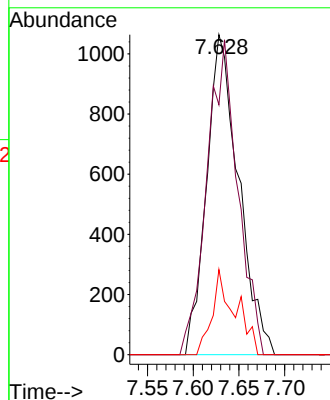
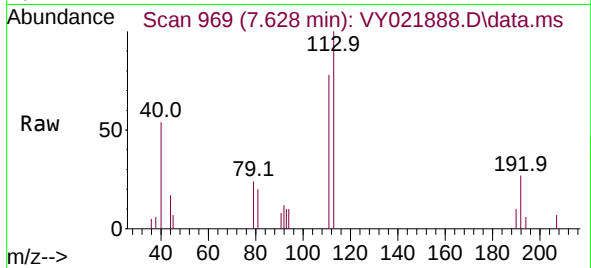




#35
Dibromofluoromethane
Concen: 35.558 ug/l
RT: 7.628 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

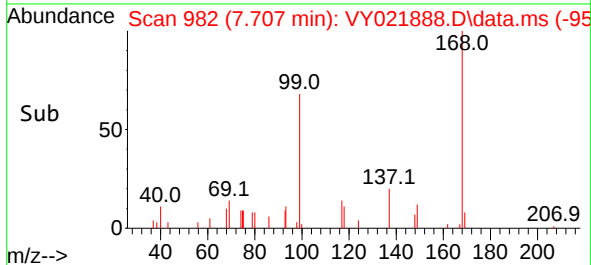
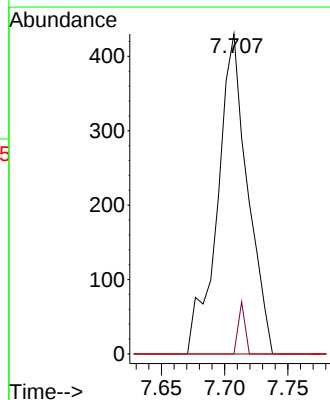
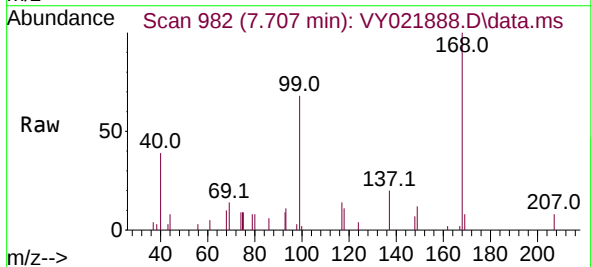
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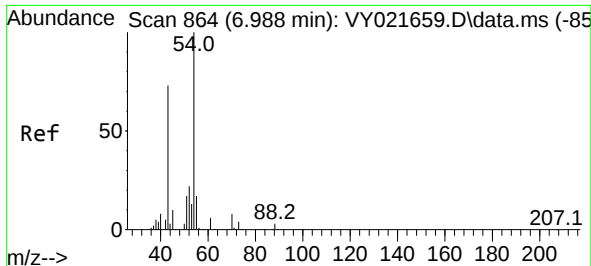
Tgt Ion:	113	Resp:	2591
Ion	Ratio	Lower	Upper
113	100		
111	95.1	82.6	123.8
192	19.2	16.2	24.4



#36
1,1-Dichloropropene
Concen: 6.397 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion:	75	Resp:	710
Ion	Ratio	Lower	Upper
75	100		
110	3.7	17.0	50.9#
77	0.0	24.8	37.2#

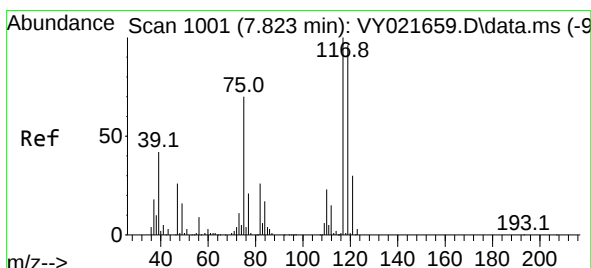
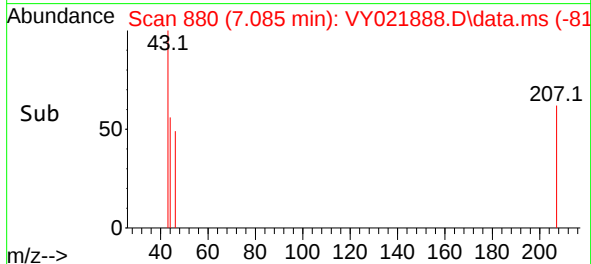
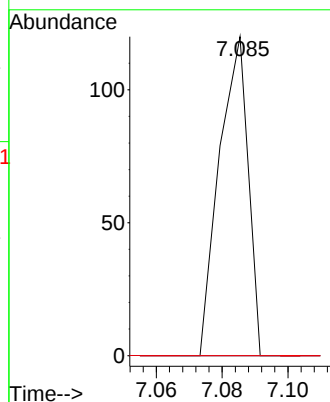
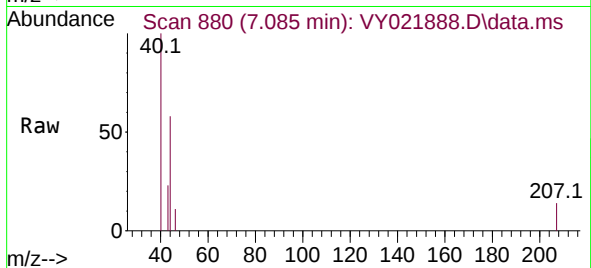




#37
Ethyl Acetate
Concen: 1.394 ug/l
RT: 7.085 min Scan# 81
Delta R.T. 0.098 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

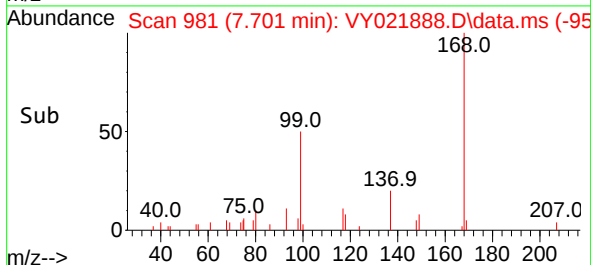
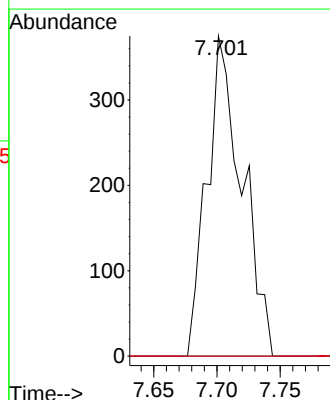
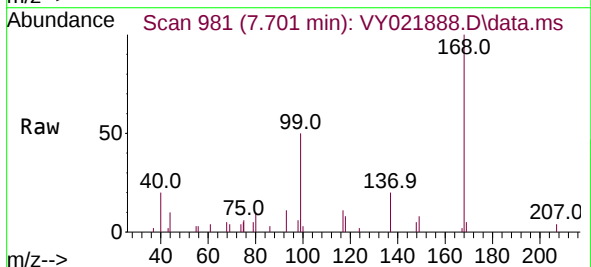
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-041125

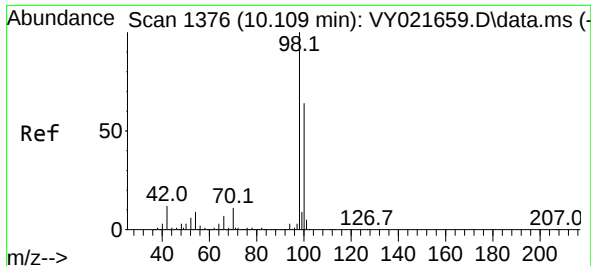
Tgt Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 0.0 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 5.688 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.122 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion: 117 Resp: 723
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.4#
121 0.0 24.2 36.4#

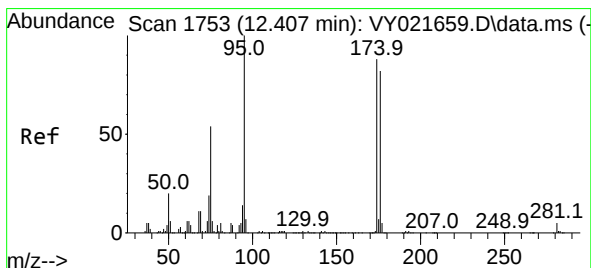
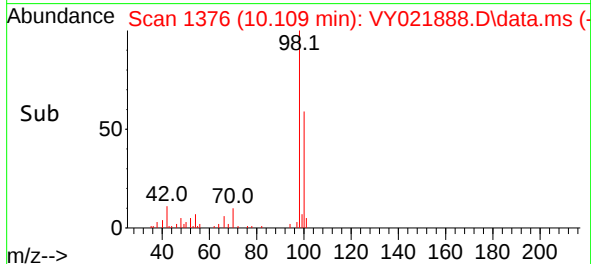
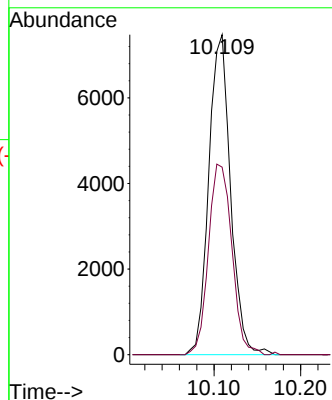
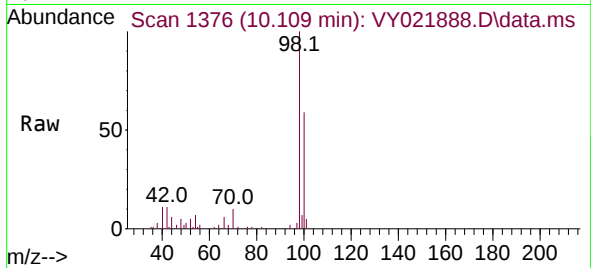




#50
Toluene-d8
Concen: 47.120 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

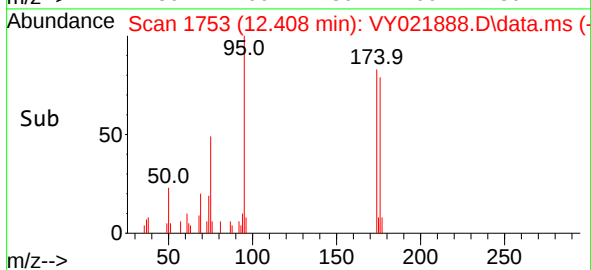
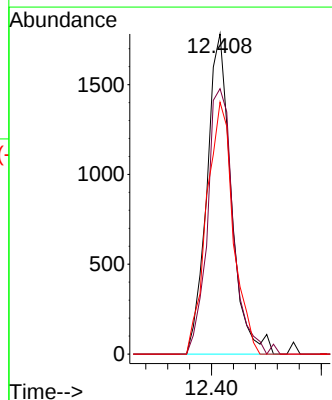
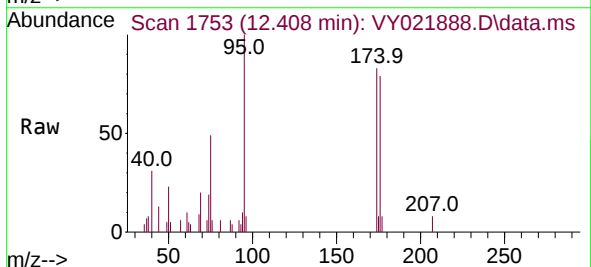
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-041125

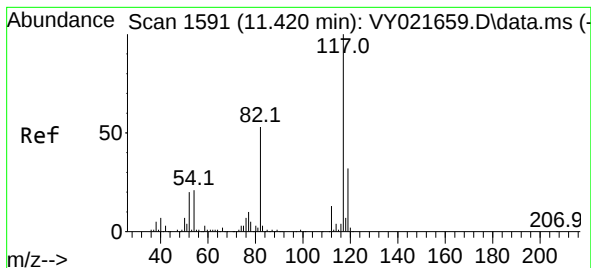
Tgt Ion: 98 Resp: 13062
Ion Ratio Lower Upper
98 100
100 64.0 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 29.350 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion: 95 Resp: 2752
Ion Ratio Lower Upper
95 100
174 88.1 0.0 170.8
176 86.2 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021888.D

Acq: 15 Apr 2025 12:05

Instrument :

MSVOA_Y

ClientSampleId :

HR-03-041125

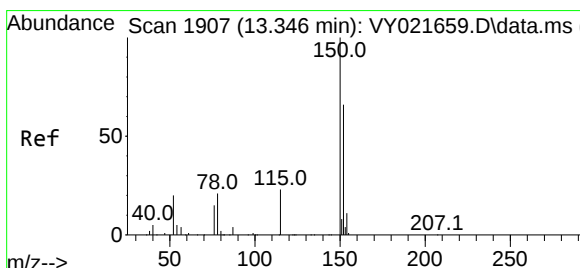
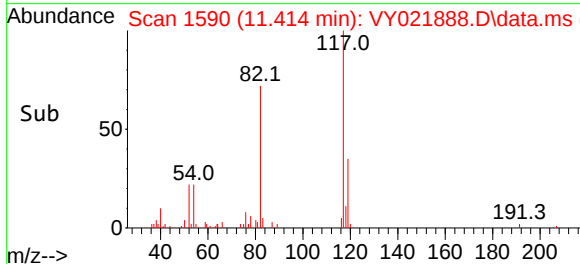
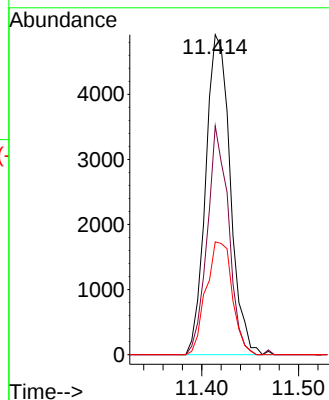
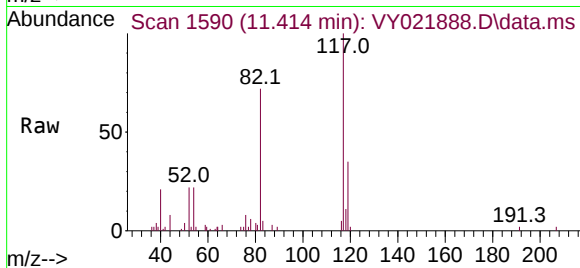
Tgt Ion:117 Resp: 8701

Ion Ratio Lower Upper

117 100

82 71.5 42.8 64.2#

119 35.3 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021888.D

Acq: 15 Apr 2025 12:05

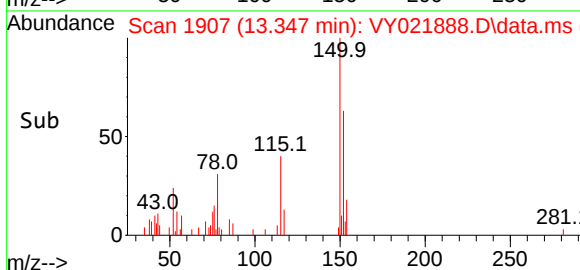
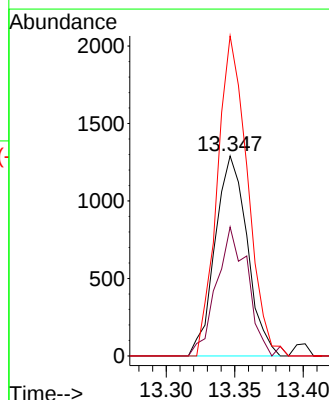
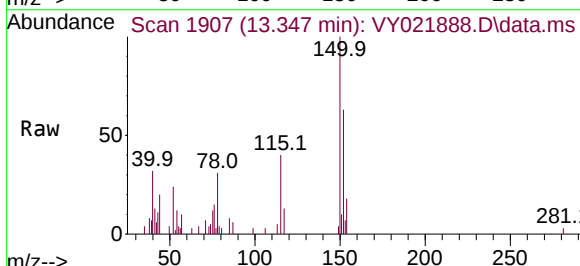
Tgt Ion:152 Resp: 2106

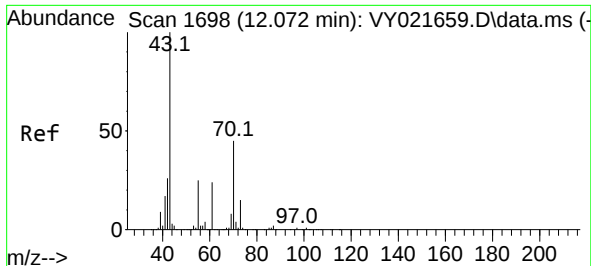
Ion Ratio Lower Upper

152 100

115 63.1 28.8 86.5

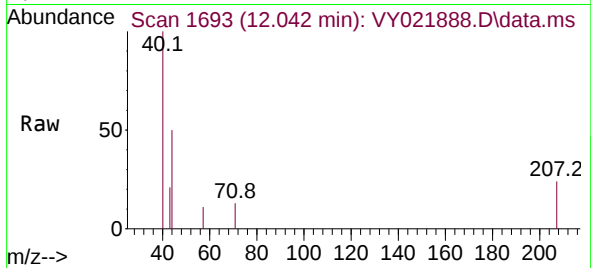
150 150.5 0.0 348.4



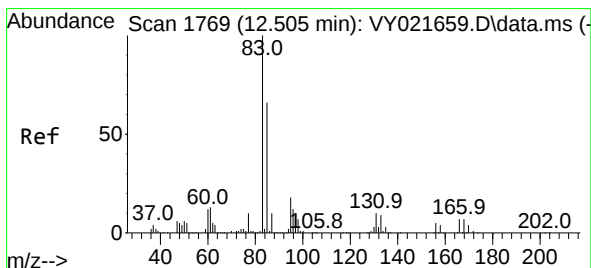
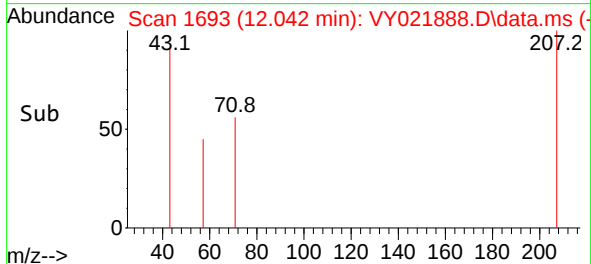
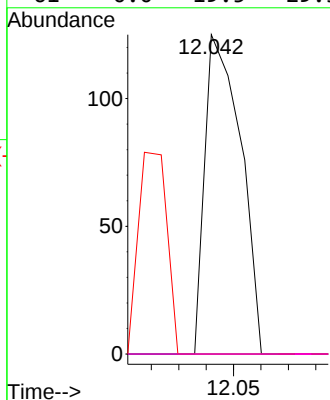


#74
N-amy1 acetate
Concen: 3.078 ug/l
RT: 12.042 min Scan# 1736
Delta R.T. -0.030 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Instrument :
MSVOA_Y
ClientSampleId :
HR-03-041125

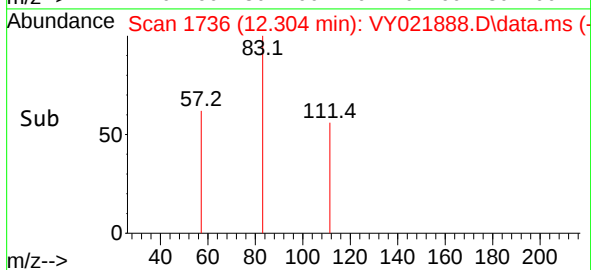
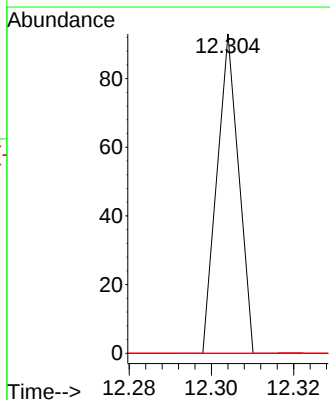
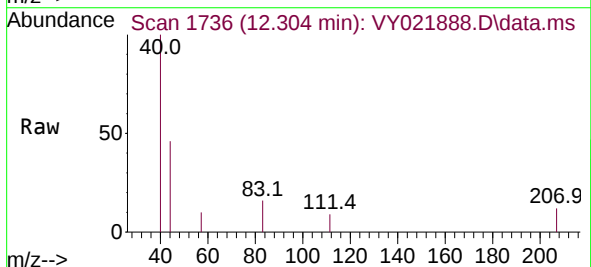


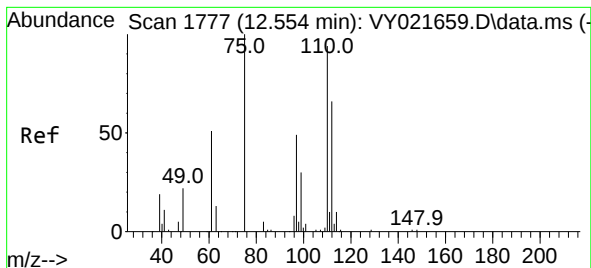
Tgt Ion:	43	Resp:	113
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.7	52.1#
55	0.0	21.2	31.8#
61	0.0	19.5	29.3#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.209 ug/l
RT: 12.304 min Scan# 1736
Delta R.T. -0.201 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion:	83	Resp:	34
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.1	15.3#
85	0.0	32.3	96.8#

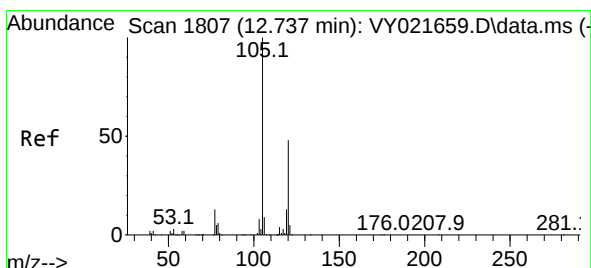
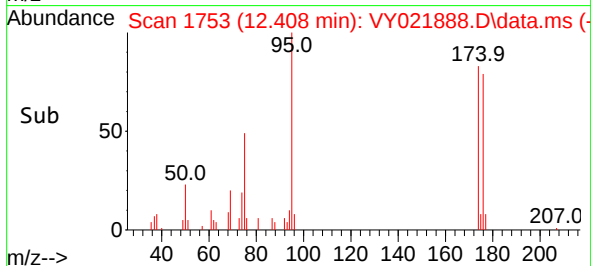
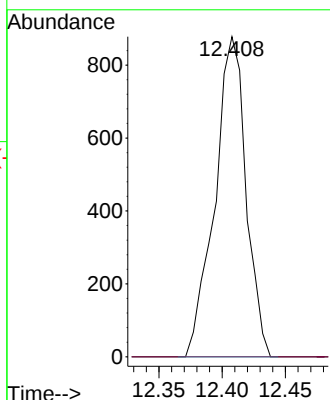
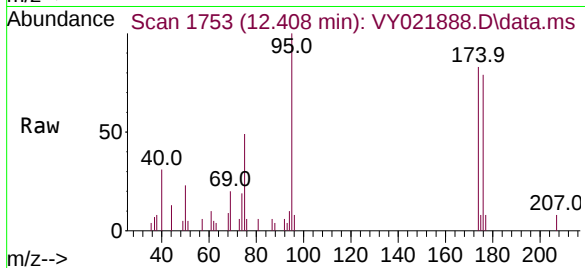




#76
1,2,3-Trichloropropane
Concen: 72.141 ug/l
RT: 12.408 min Scan# 11
Delta R.T. -0.146 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

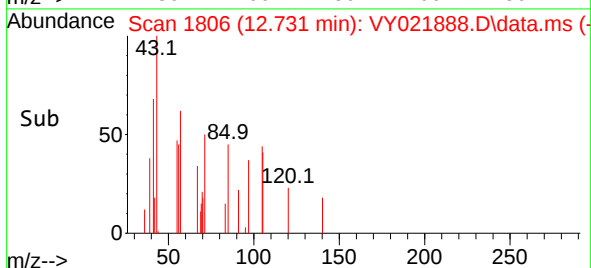
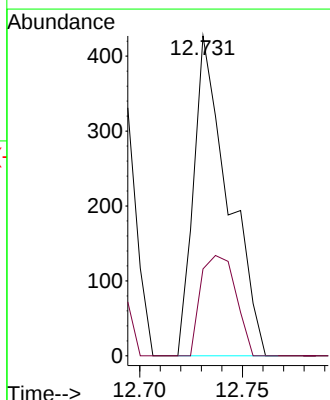
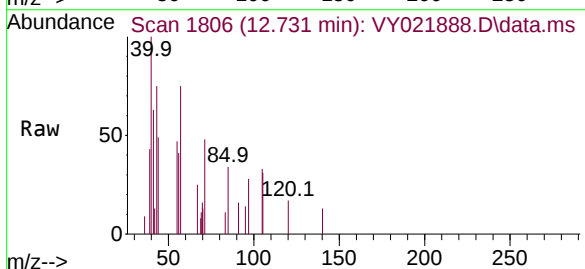
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-041125

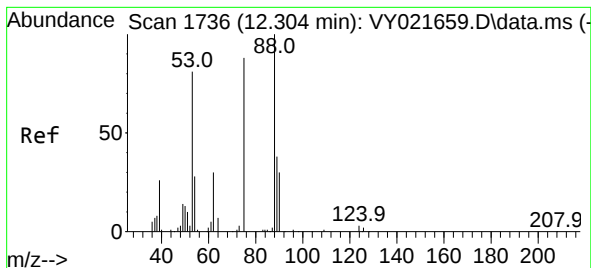
Tgt Ion: 75 Resp: 1506
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#80
1,3,5-Trimethylbenzene
Concen: 3.911 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion: 105 Resp: 500
Ion Ratio Lower Upper
105 100
120 31.8 24.5 73.5

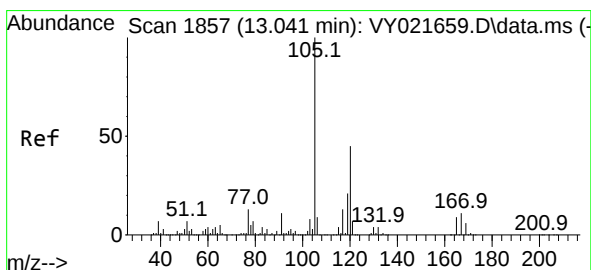
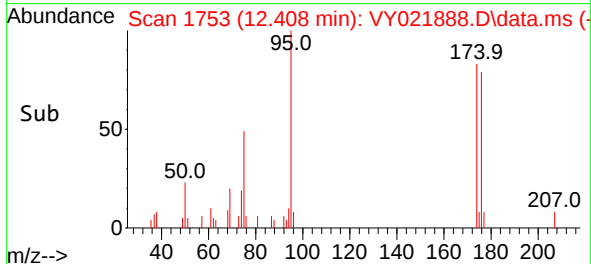
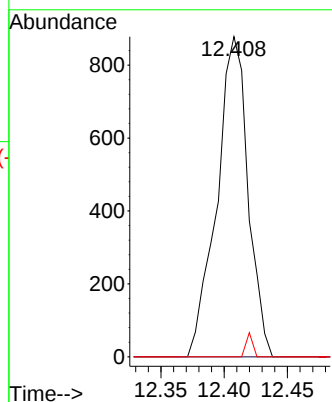
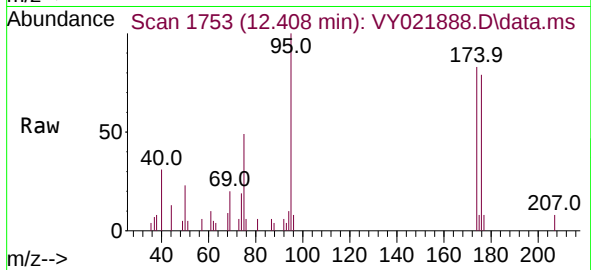




#81
trans-1,4-Dichloro-2-butene
Concen: 166.224 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

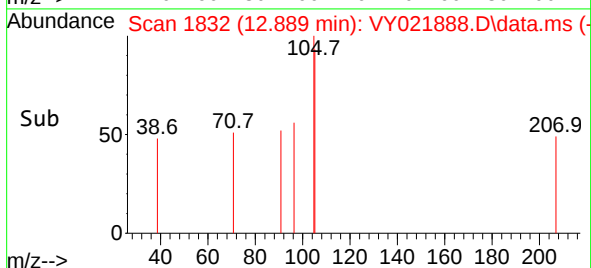
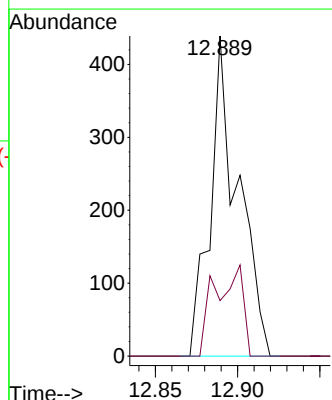
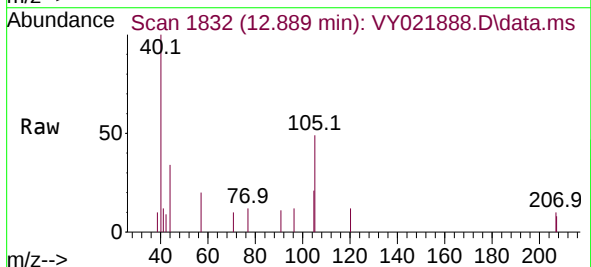
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-041125

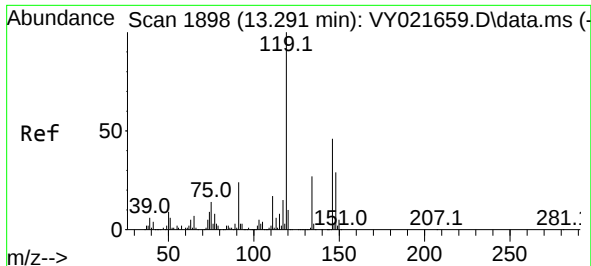
Tgt Ion: 75 Resp: 1506
Ion Ratio Lower Upper
75 100
53 0.0 76.1 114.1#
89 1.6 36.2 54.4#



#84
1,2,4-Trimethylbenzene
Concen: 4.100 ug/l
RT: 12.889 min Scan# 1832
Delta R.T. -0.152 min
Lab File: VY021888.D
Acq: 15 Apr 2025 12:05

Tgt Ion: 105 Resp: 518
Ion Ratio Lower Upper
105 100
120 28.4 22.7 68.1

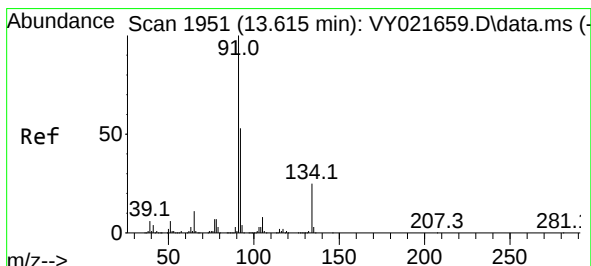
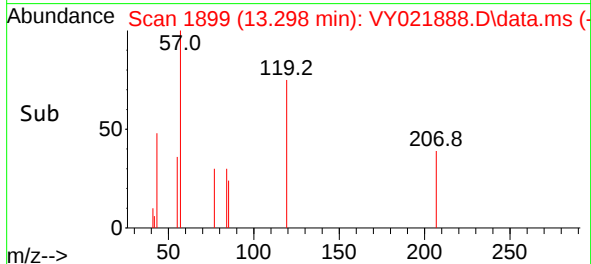
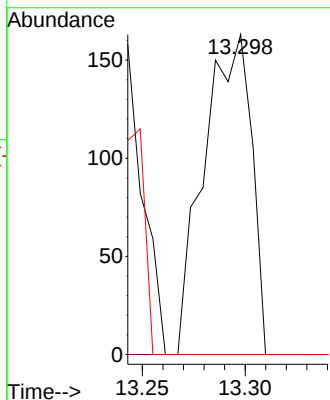
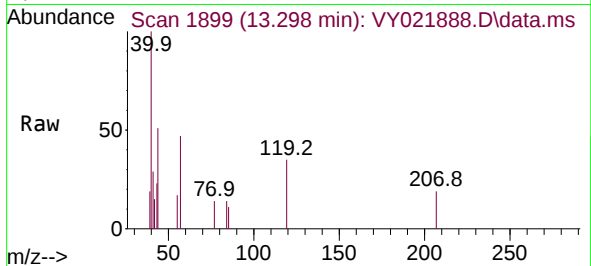




#86
 p-Isopropyltoluene
 Concen: 1.912 ug/l
 RT: 13.298 min Scan# 1899
 Delta R.T. 0.006 min
 Lab File: VY021888.D
 Acq: 15 Apr 2025 12:05

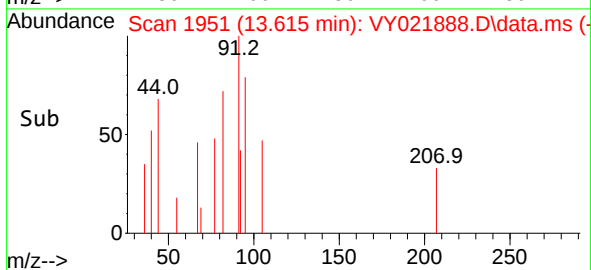
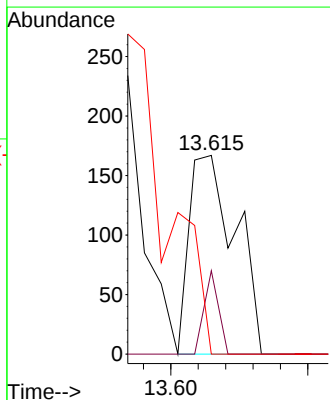
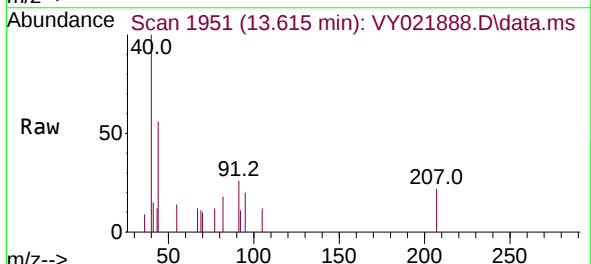
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-03-041125

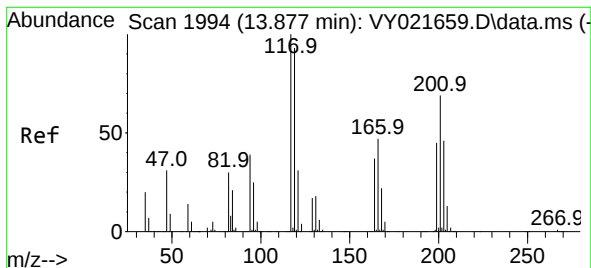
Tgt Ion:119 Resp: 263
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.2 39.5#
 91 0.0 12.0 36.0#



#89
 n-Butylbenzene
 Concen: 1.549 ug/l
 RT: 13.615 min Scan# 1951
 Delta R.T. 0.000 min
 Lab File: VY021888.D
 Acq: 15 Apr 2025 12:05

Tgt Ion: 91 Resp: 197
 Ion Ratio Lower Upper
 91 100
 92 13.2 26.4 79.2#
 134 0.0 12.8 38.4#





#90

Hexachloroethane

Concen: 1.825 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY021888.D

Acq: 15 Apr 2025 12:05

Instrument :

MSVOA_Y

ClientSampleId :

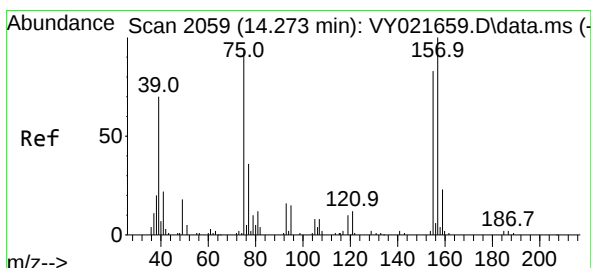
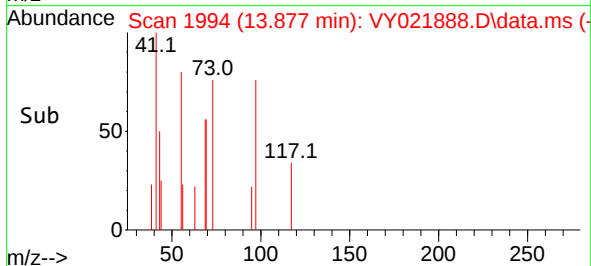
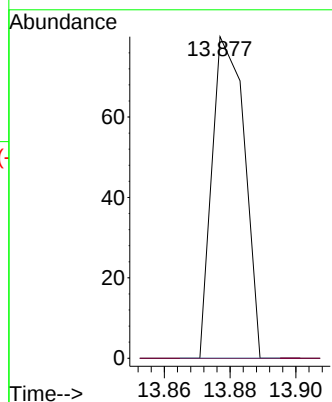
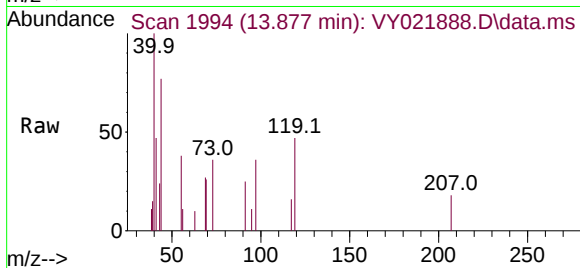
HR-03-041125

Tgt Ion:117 Resp: 55

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.588 ug/l

RT: 14.517 min Scan# 2099

Delta R.T. 0.244 min

Lab File: VY021888.D

Acq: 15 Apr 2025 12:05

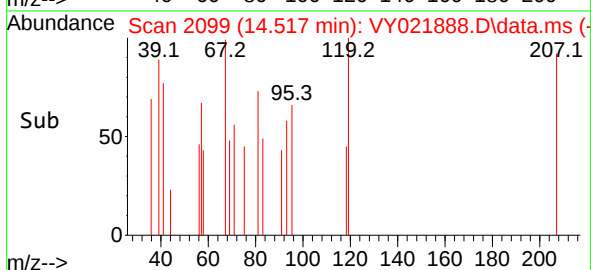
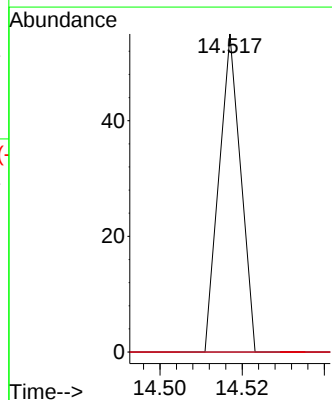
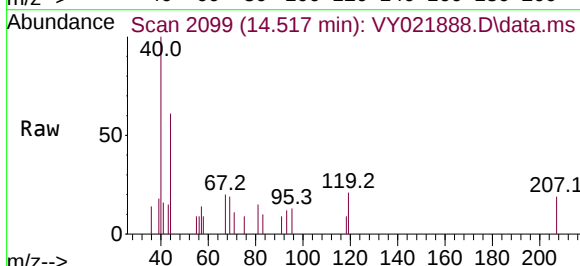
Tgt Ion: 75 Resp: 20

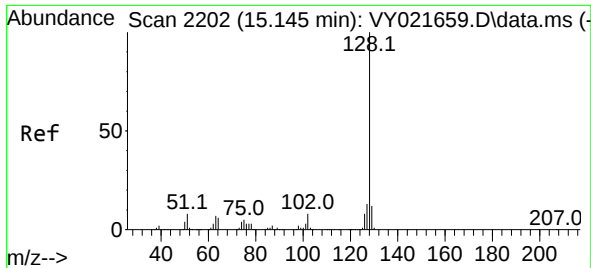
Ion Ratio Lower Upper

75 100

155 0.0 43.0 128.8#

157 0.0 54.0 162.0#





#95

Naphthalene

Concen: 3.869 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY021888.D

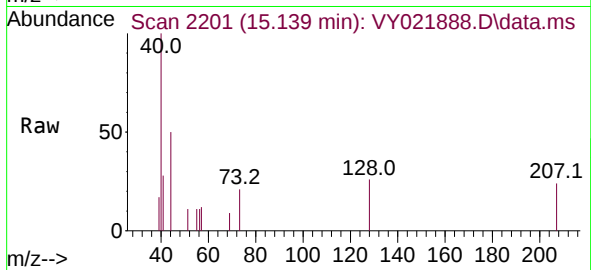
Acq: 15 Apr 2025 12:05

Instrument :

MSVOA_Y

ClientSampleId :

HR-03-041125



Tgt Ion:	128	Resp:	224
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.8	16.2#
129	0.0	8.8	13.2#

