

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020123\
 Data File : VY012437.D
 Acq On : 01 Feb 2023 13:06
 Operator : KP/MD
 Sample : 01270-03
 Misc : 7.25g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-1-012323RE

Quant Time: Feb 01 23:04:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y011623S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 04:31:47 2023
 Response via : Initial Calibration

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

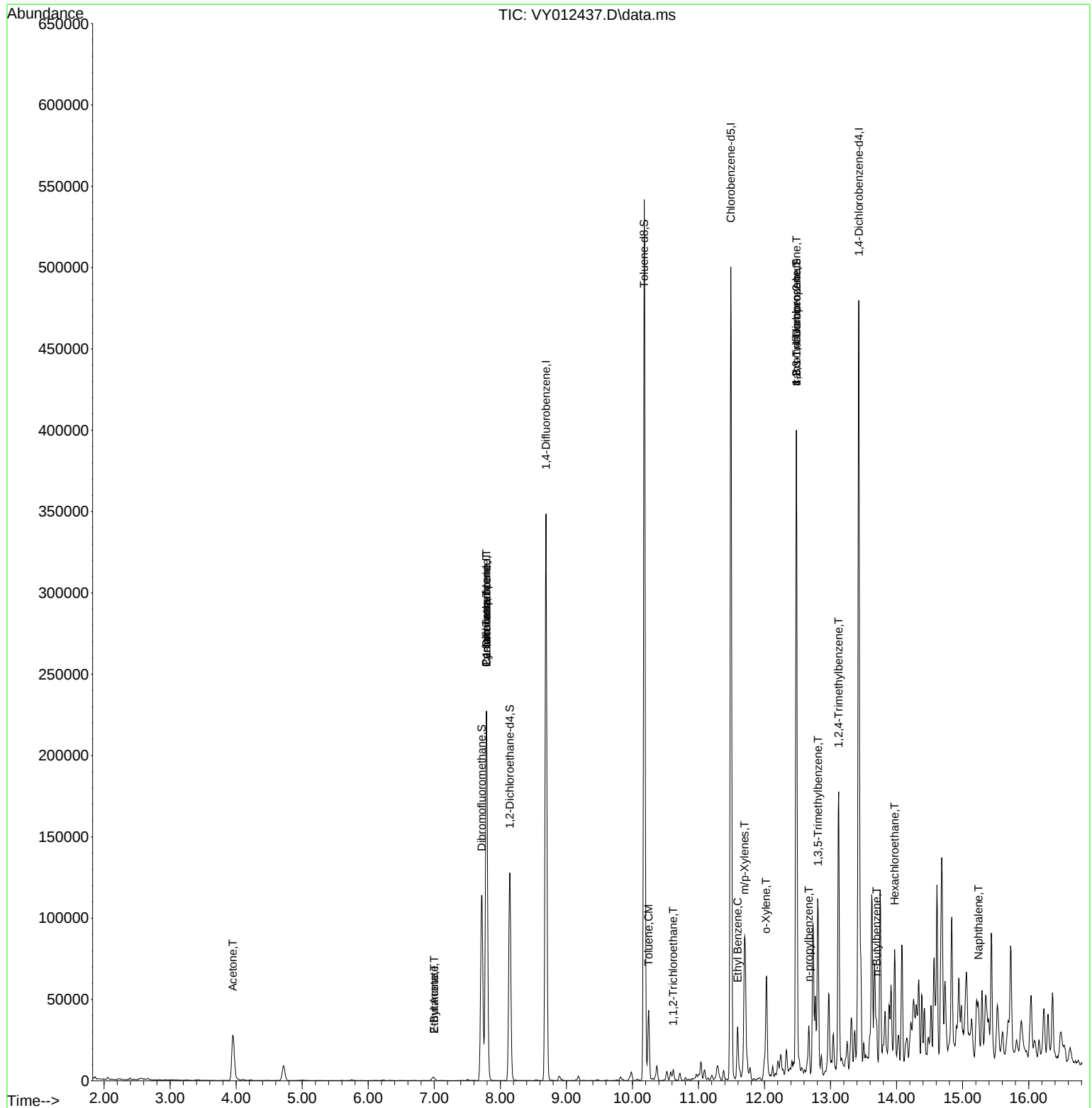
Internal Standards						
1) Pentafluorobenzene	7.789	168	182399	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	302709	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	281346	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	120541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	107502	72.906	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 145.820%			
35) Dibromofluoromethane	7.716	113	79608	49.667	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.340%			
50) Toluene-d8	10.179	98	353611	64.970	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 129.940%			
62) 4-Bromofluorobenzene	12.483	95	116087	51.377	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 102.760%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.966	59	564	Below Cal	#	74
16) Acetone	3.948	43	50767	99.955	ug/l	99
20) Methylene Chloride	4.716	84	7229	Below Cal	#	80
25) 2-Butanone	6.996	43	2019	3.601	ug/l	# 73
31) Cyclohexane	7.789	56	3352	1.260	ug/l	# 5
36) 1,1-Dichloropropene	7.789	75	12008	4.408	ug/l	# 50
37) Ethyl Acetate	6.996	43	2019	1.681	ug/l	# 68
38) Carbon Tetrachloride	7.789	117	17657	5.019	ug/l	# 17
52) Toluene	10.246	92	18382	3.511	ug/l	98
55) 1,1,2-Trichloroethane	10.618	97	2780	1.782	ug/l	# 21
67) Ethyl Benzene	11.593	91	20973	2.039	ug/l	95
68) m/p-Xylenes	11.697	106	25427	6.251	ug/l	100
69) o-Xylene	12.026	106	15636	4.024	ug/l	96
76) 1,2,3-Trichloropropane	12.483	75	61920	55.863	ug/l	# 100
78) n-propylbenzene	12.672	91	22532	2.215	ug/l	98
80) 1,3,5-Trimethylbenzene	12.812	105	26221	3.470	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.483	75	61920	115.103	ug/l	# 13
84) 1,2,4-Trimethylbenzene	13.123	105	94933	12.740	ug/l	97
89) n-Butylbenzene	13.696	91	12607	1.776	ug/l	# 77
90) Hexachloroethane	13.971	117	3047	2.060	ug/l	# 9
95) Naphthalene	15.239	128	20607	4.390	ug/l	97

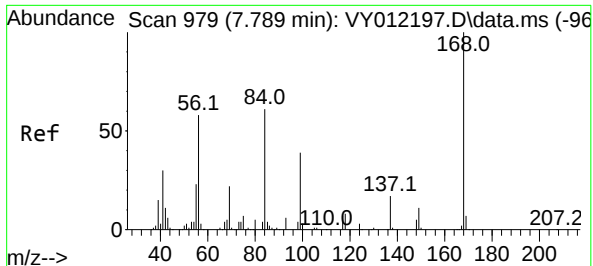
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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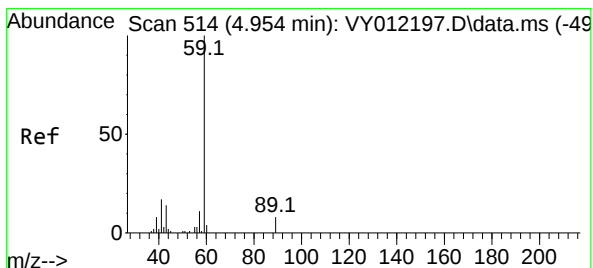
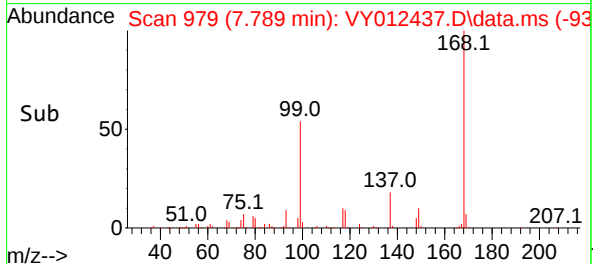
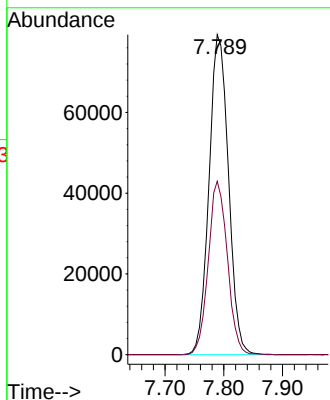
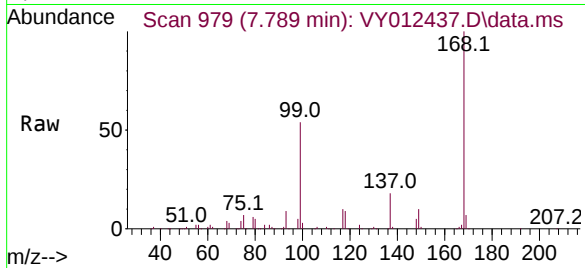




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

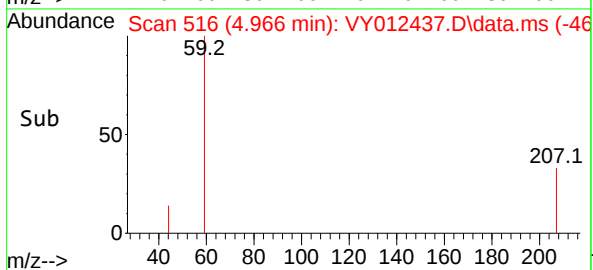
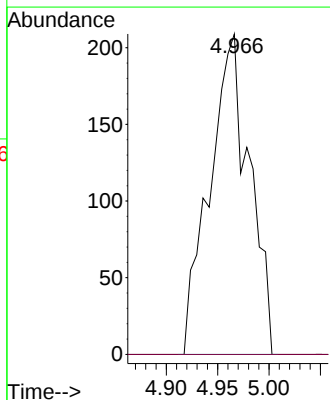
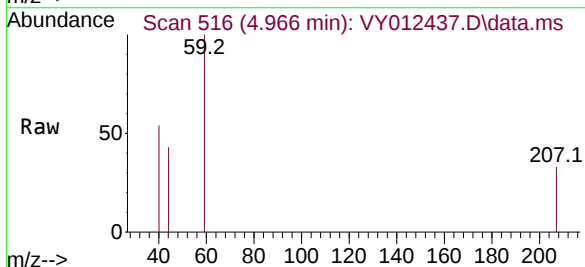
Instrument :
MSVOA_Y
ClientSampleId :
JC-1-012323RE

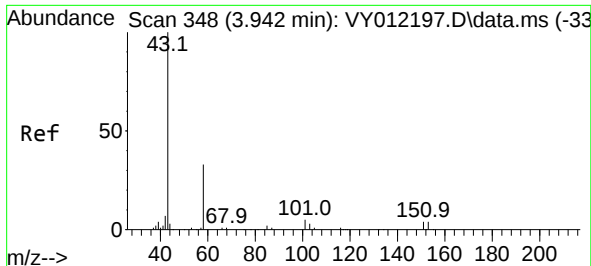
Tgt Ion:168 Resp: 182399
Ion Ratio Lower Upper
168 100
99 54.2 44.0 66.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.966 min Scan# 516
Delta R.T. 0.018 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

Tgt Ion: 59 Resp: 564
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#

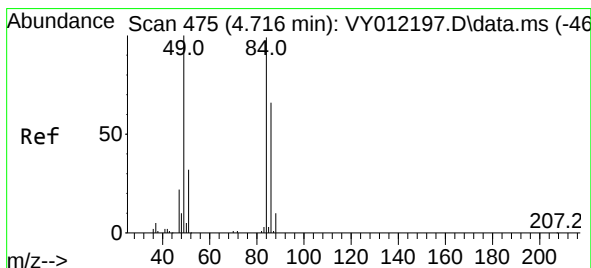
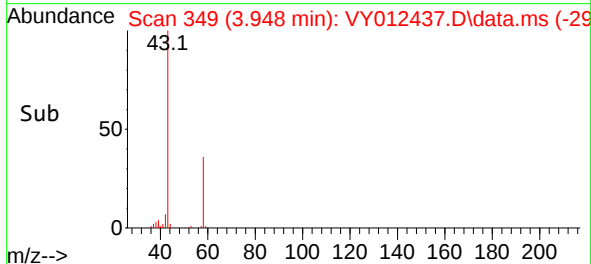
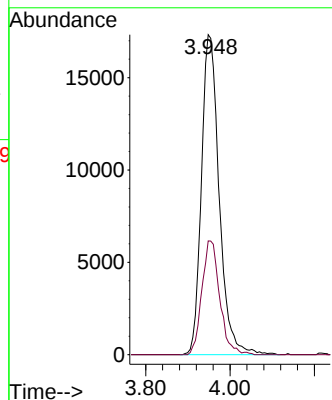
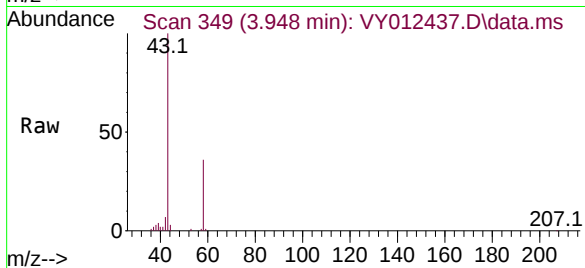




#16
 Acetone
 Concen: 99.955 ug/l
 RT: 3.948 min Scan# 348
 Delta R.T. 0.006 min
 Lab File: VY012437.D
 Acq: 01 Feb 2023 13:06

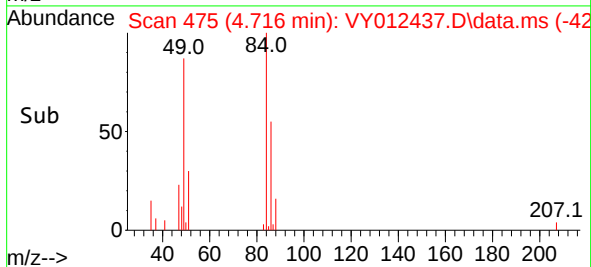
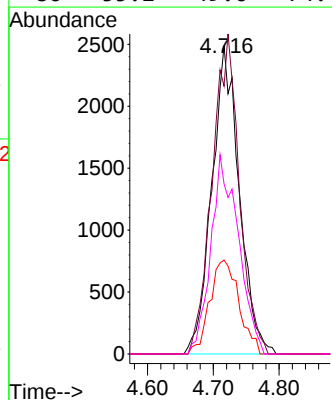
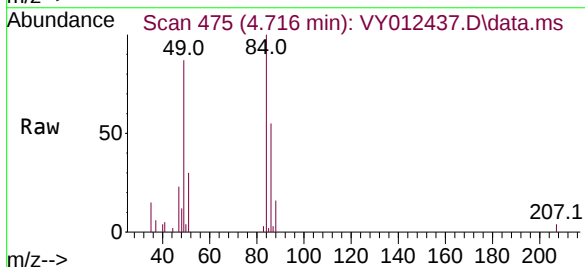
Instrument :
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 JC-1-012323RE

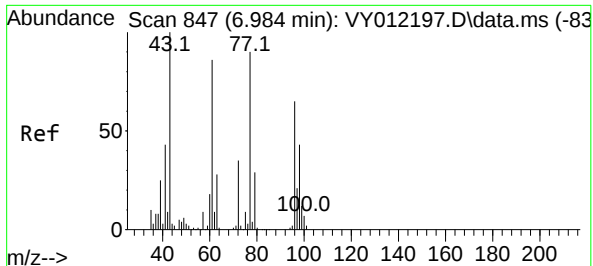
Tgt Ion: 43 Resp: 50767
 Ion Ratio Lower Upper
 43 100
 58 35.6 27.9 41.9



#20
 Methylene Chloride
 Concen: Below Cal
 RT: 4.716 min Scan# 475
 Delta R.T. 0.000 min
 Lab File: VY012437.D
 Acq: 01 Feb 2023 13:06

Tgt Ion: 84 Resp: 7229
 Ion Ratio Lower Upper
 84 100
 49 86.9 95.4 143.2#
 51 30.5 29.9 44.9
 86 55.2 49.6 74.4





#25

2-Butanone

Concen: 3.601 ug/l

RT: 6.996 min Scan# 847

Delta R.T. 0.012 min

Lab File: VY012437.D

Acq: 01 Feb 2023 13:06

Instrument :

MSVOA_Y

ClientSampleId :

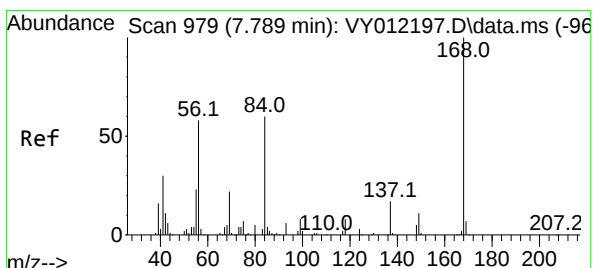
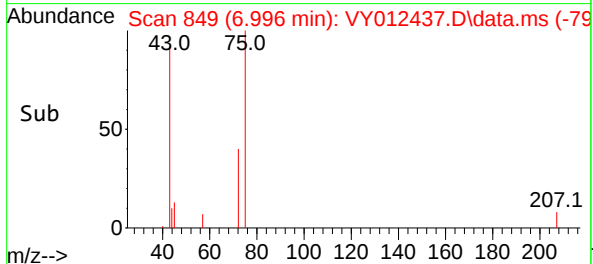
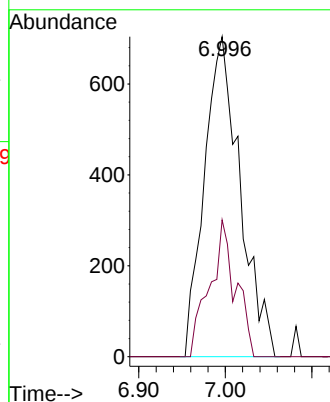
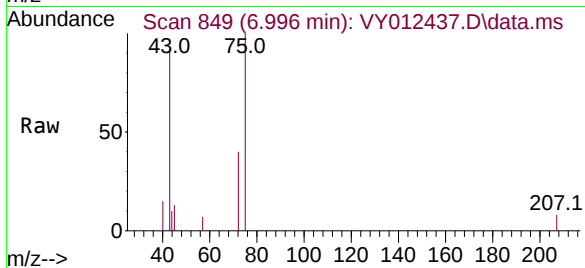
JC-1-012323RE

Tgt Ion: 43 Resp: 2019

Ion Ratio Lower Upper

43 100

72 42.8 22.6 34.0#



#31

Cyclohexane

Concen: 1.260 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.006 min

Lab File: VY012437.D

Acq: 01 Feb 2023 13:06

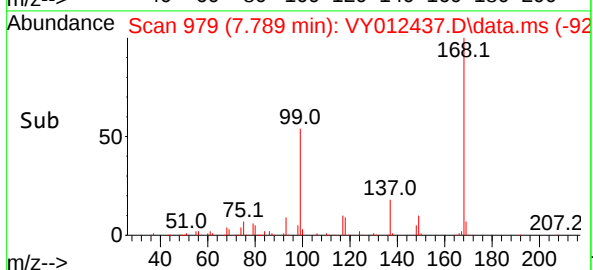
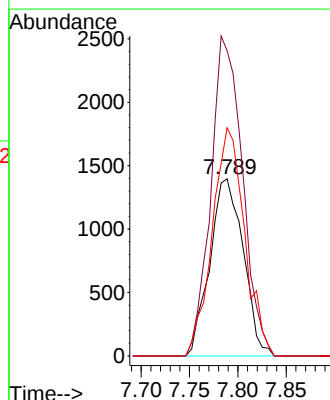
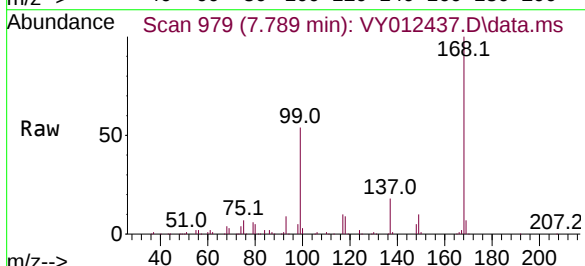
Tgt Ion: 56 Resp: 3352

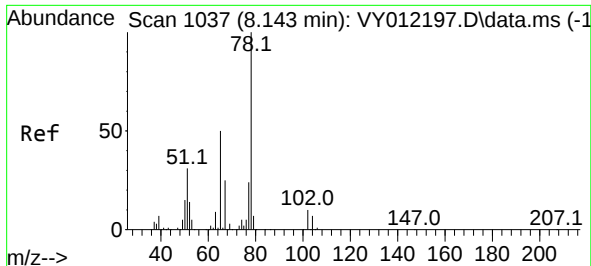
Ion Ratio Lower Upper

56 100

69 172.4 29.2 43.8#

84 128.9 72.6 108.8#

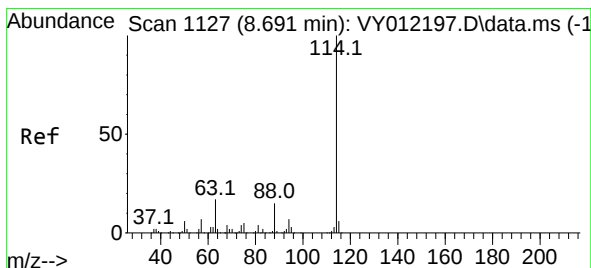
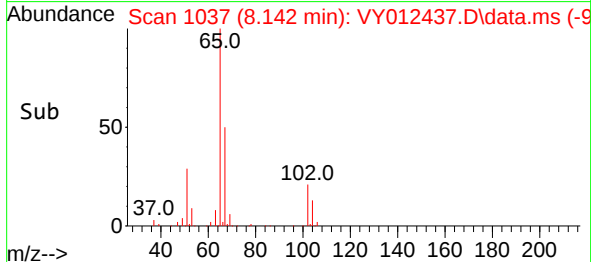
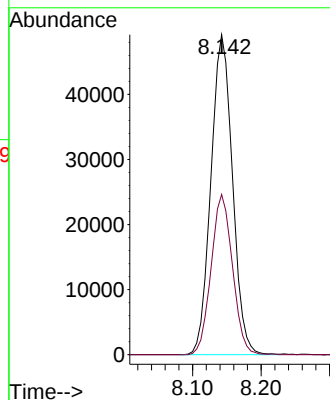
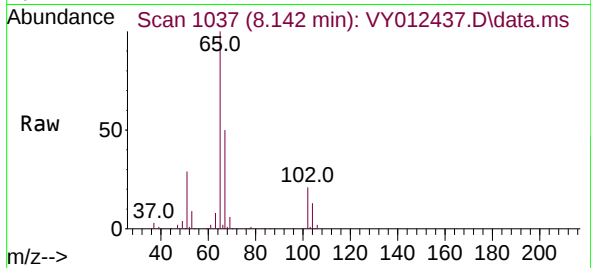




#33
 1,2-Dichloroethane-d4
 Concen: 72.906 ug/l
 RT: 8.142 min Scan# 1037
 Delta R.T. -0.001 min
 Lab File: VY012437.D
 Acq: 01 Feb 2023 13:06

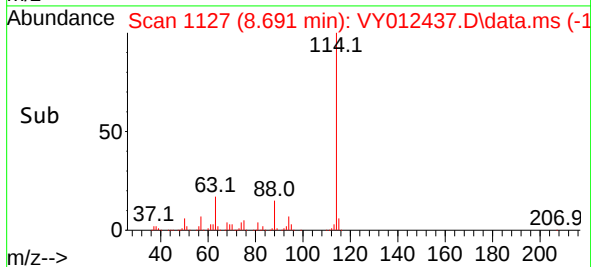
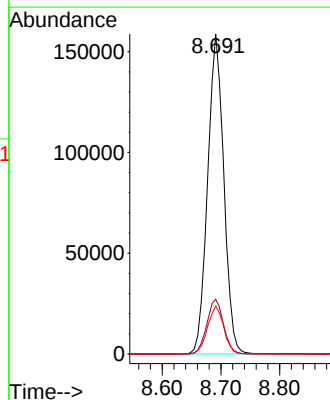
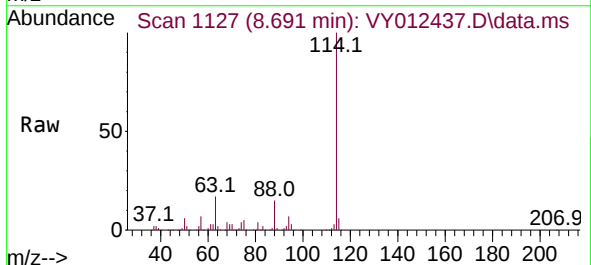
Instrument :
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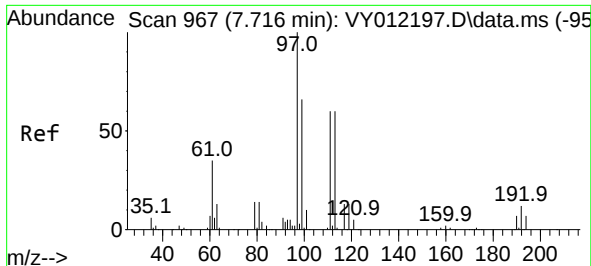
Tgt Ion: 65 Resp: 107502
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VY012437.D
 Acq: 01 Feb 2023 13:06

Tgt Ion: 114 Resp: 302709
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 39.6
 88 15.0 0.0 32.2

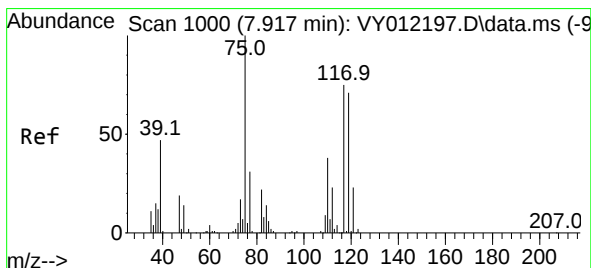
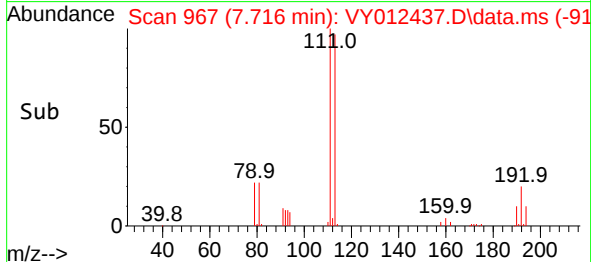
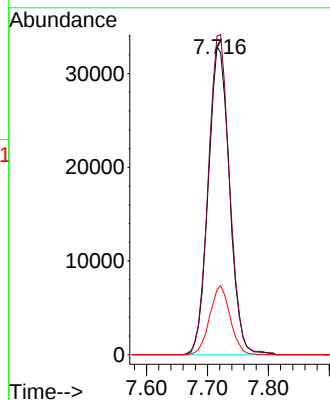
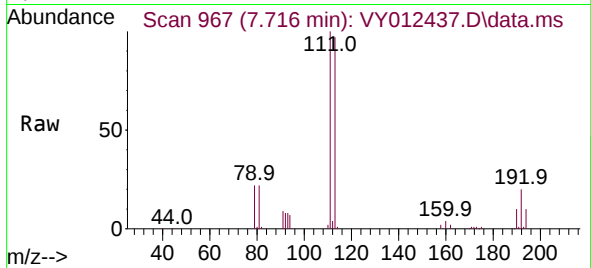




#35
Dibromofluoromethane
Concen: 49.667 ug/l
RT: 7.716 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

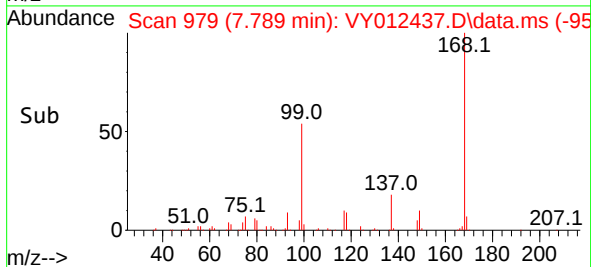
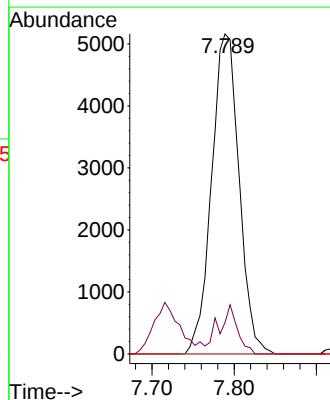
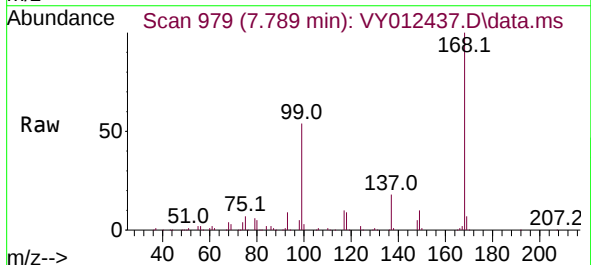
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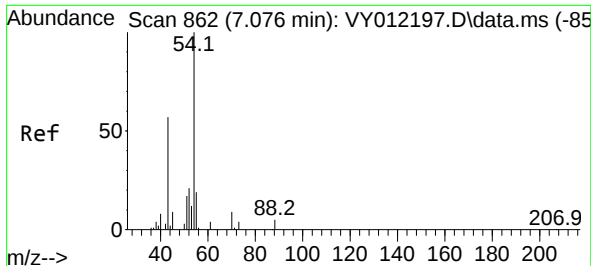
Tgt Ion:113 Resp: 79608
Ion Ratio Lower Upper
113 100
111 104.0 83.0 124.4
192 21.5 16.0 24.0



#36
1,1-Dichloropropene
Concen: 4.408 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

Tgt Ion: 75 Resp: 12008
Ion Ratio Lower Upper
75 100
110 10.4 18.1 54.1#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 1.681 ug/l

RT: 6.996 min Scan# 84

Delta R.T. -0.080 min

Lab File: VY012437.D

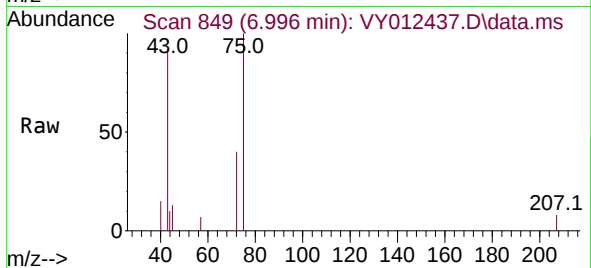
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Instrument :

MSVOA_Y

ClientSampleId :

JC-1-012323RE



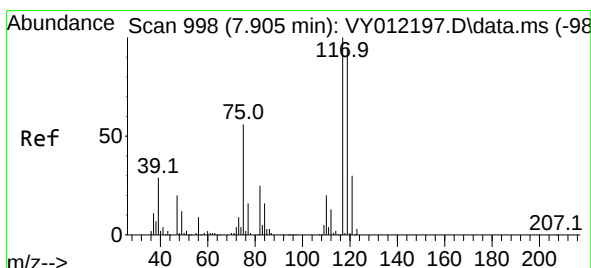
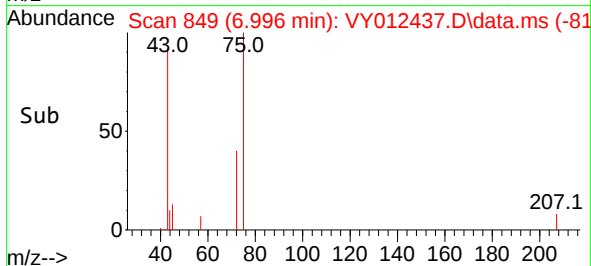
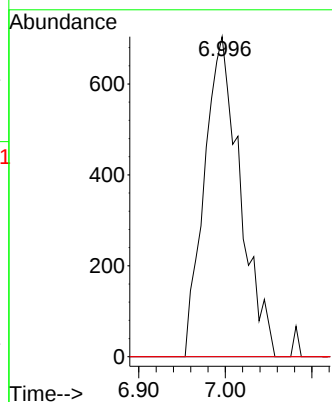
Tgt Ion: 43 Resp: 2019

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

70 0.0 8.2 12.4#



#38

Carbon Tetrachloride

Concen: 5.019 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY012437.D

Acq: 01 Feb 2023 13:06

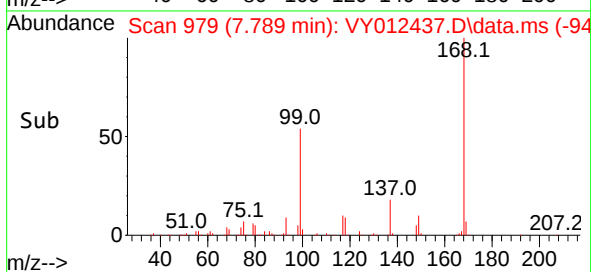
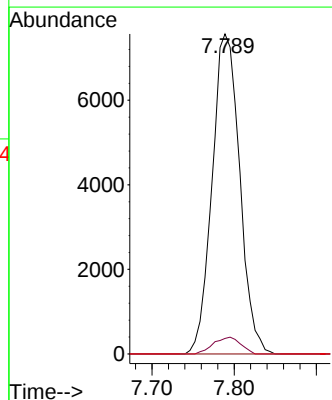
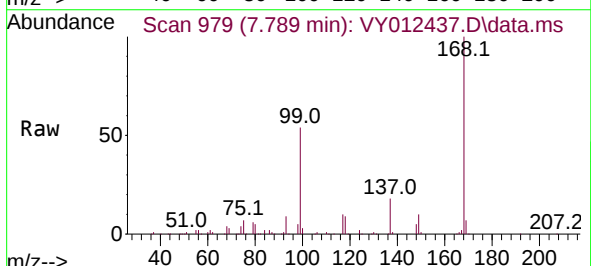
Tgt Ion: 117 Resp: 17657

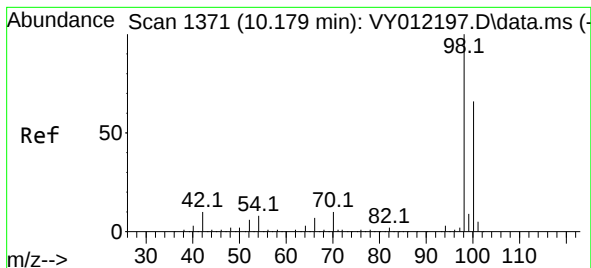
Ion Ratio Lower Upper

117 100

119 4.8 73.8 110.8#

121 0.0 25.2 37.8#





#50

Toluene-d8

Concen: 64.970 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY012437.D

Acq: 01 Feb 2023 13:06

Instrument :

MSVOA_Y

ClientSampleId :

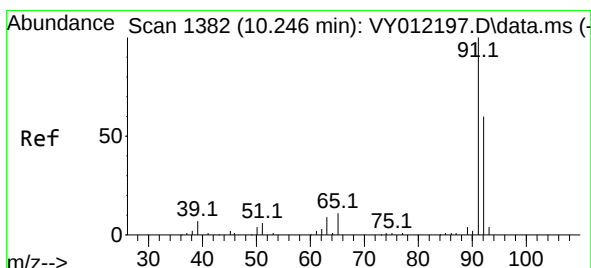
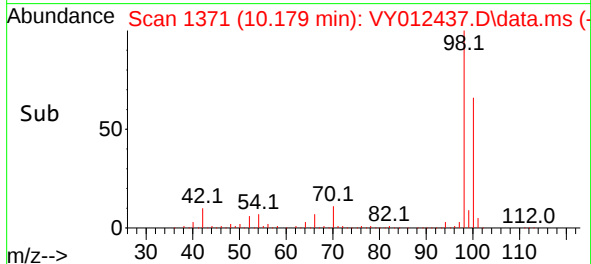
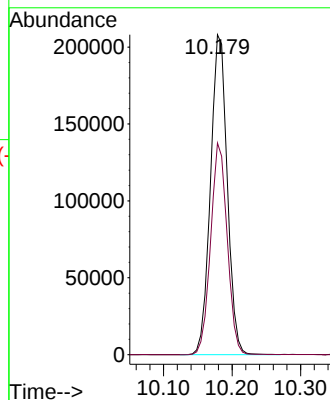
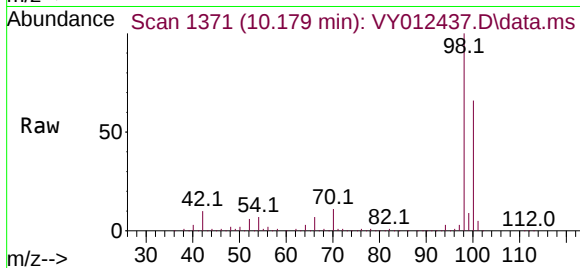
JC-1-012323RE

Tgt Ion: 98 Resp: 353611

Ion Ratio Lower Upper

98 100

100 65.4 51.9 77.9



#52

Toluene

Concen: 3.511 ug/l

RT: 10.246 min Scan# 1382

Delta R.T. -0.000 min

Lab File: VY012437.D

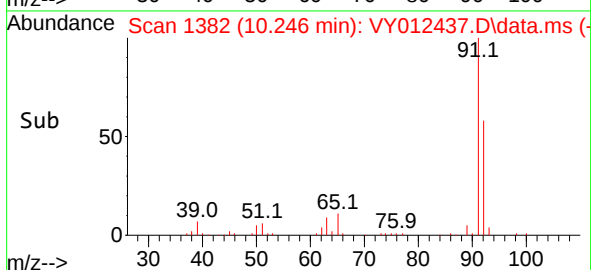
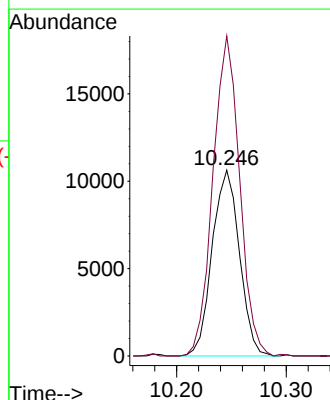
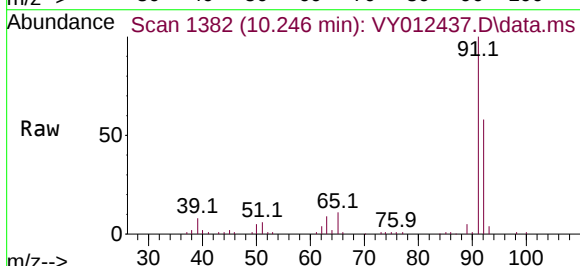
Acq: 01 Feb 2023 13:06

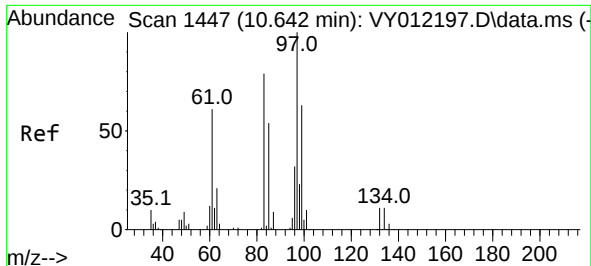
Tgt Ion: 92 Resp: 18382

Ion Ratio Lower Upper

92 100

91 169.0 137.4 206.0



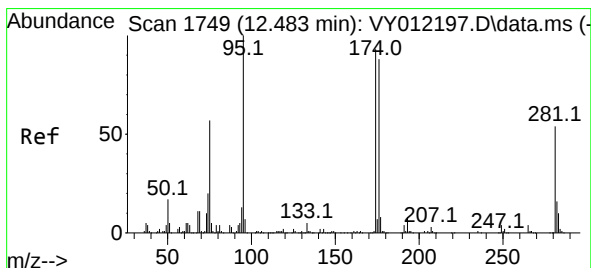
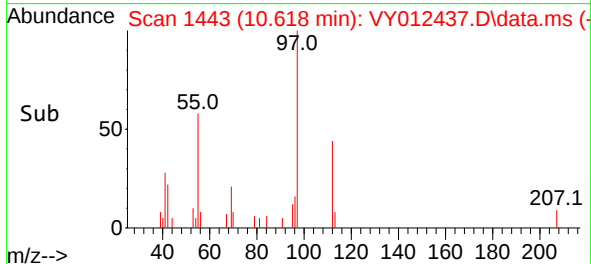
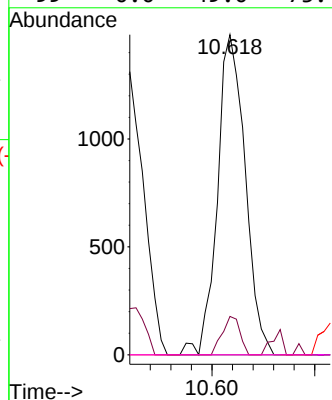
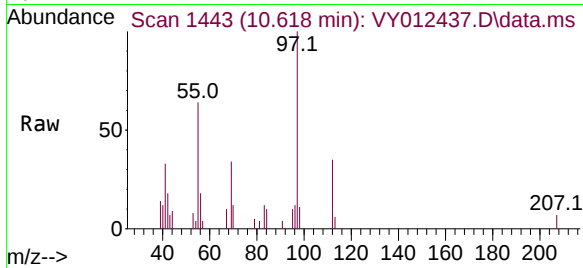


#55
1,1,2-Trichloroethane
Concen: 1.782 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.024 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

Instrument :
MSVOA_Y
ClientSampleId :
JC-1-012323RE

Tgt Ion: 97 Resp: 2780

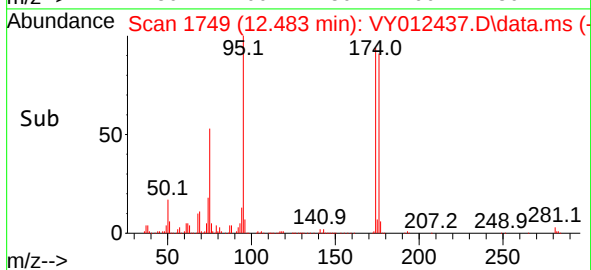
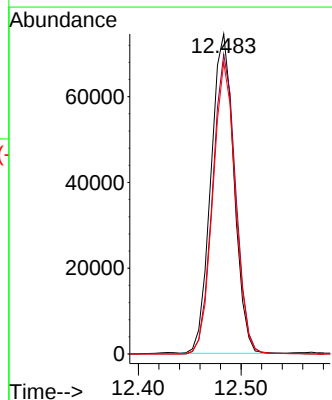
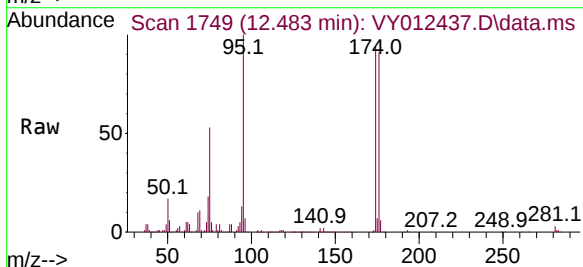
Ion	Ratio	Lower	Upper
97	100		
83	12.0	67.7	101.5#
85	0.0	43.8	65.8#
99	0.0	49.0	73.4#

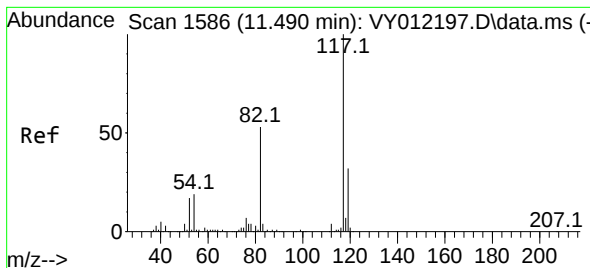


#62
4-Bromofluorobenzene
Concen: 51.377 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

Tgt Ion: 95 Resp: 116087

Ion	Ratio	Lower	Upper
95	100		
174	93.7	0.0	172.0
176	89.3	0.0	167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. -0.001 min

Lab File: VY012437.D

Acq: 01 Feb 2023 13:06

Instrument :

MSVOA_Y

ClientSampleId :

JC-1-012323RE

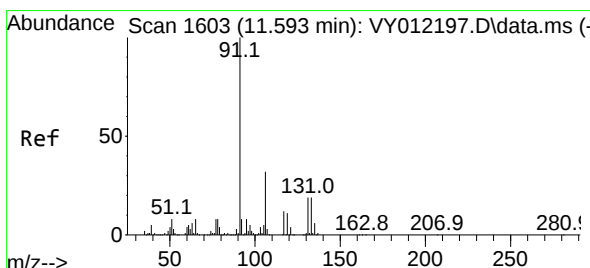
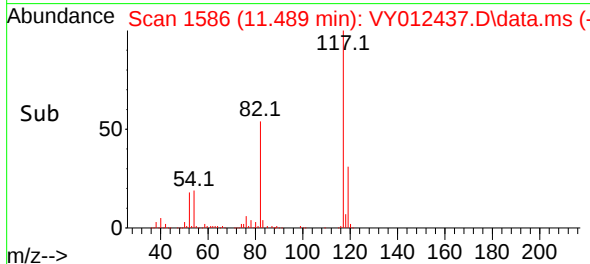
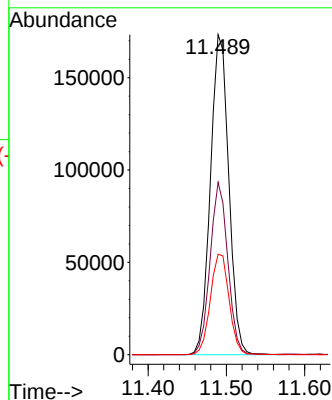
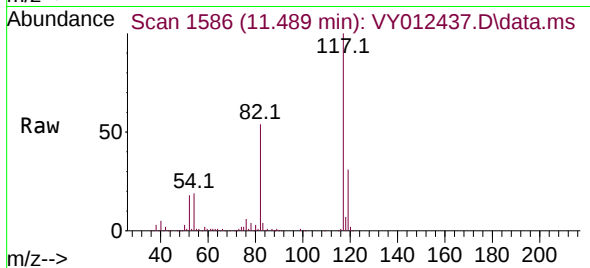
Tgt Ion:117 Resp: 281346

Ion Ratio Lower Upper

117 100

82 53.8 44.8 67.2

119 31.4 25.4 38.2



#67

Ethyl Benzene

Concen: 2.039 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY012437.D

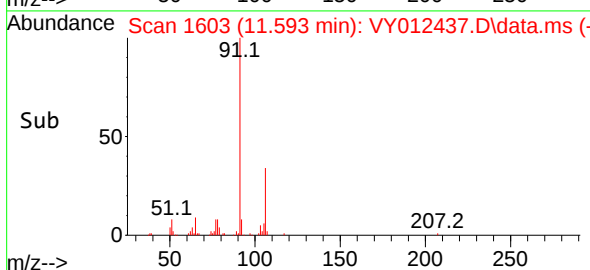
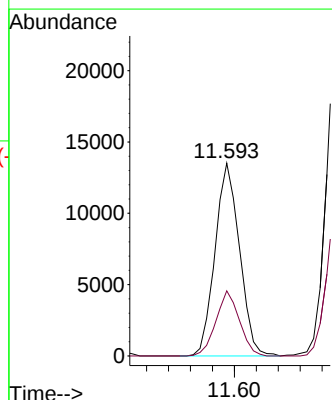
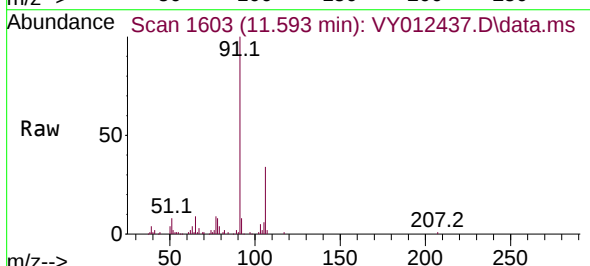
Acq: 01 Feb 2023 13:06

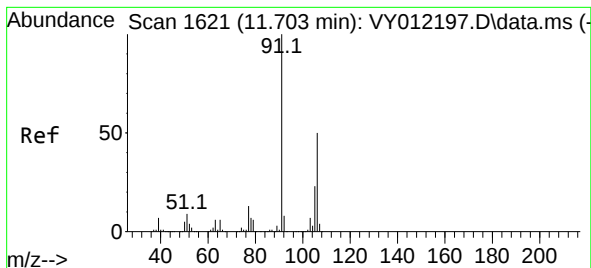
Tgt Ion: 91 Resp: 20973

Ion Ratio Lower Upper

91 100

106 33.8 25.0 37.4

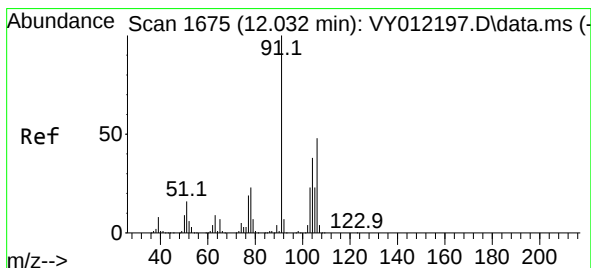
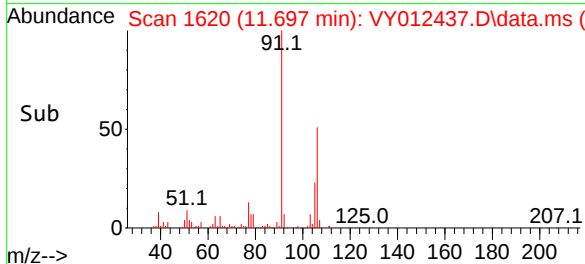
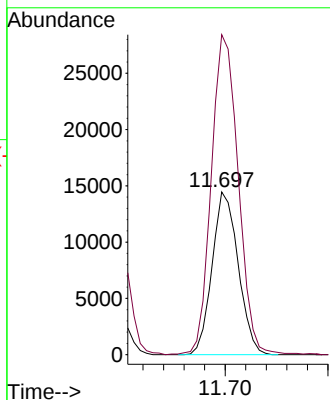
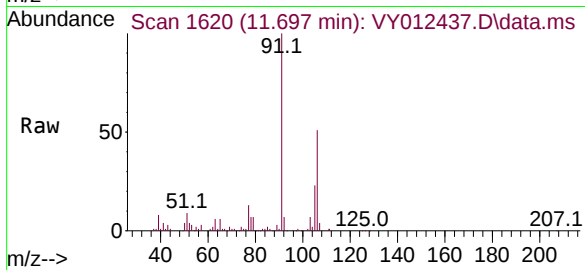




#68
m/p-Xylenes
Concen: 6.251 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

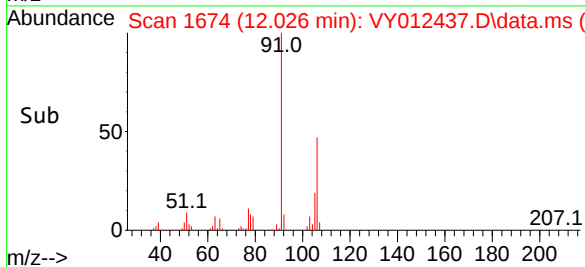
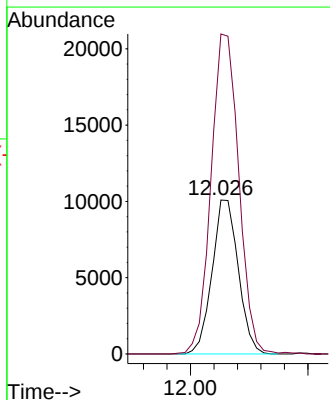
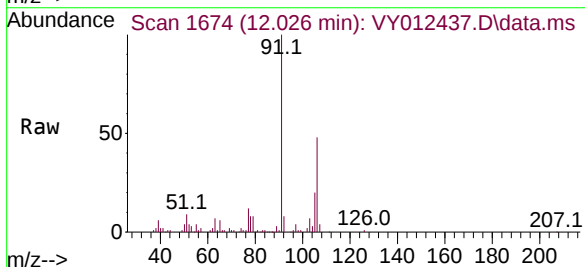
Instrument :
MSVOA_Y
ClientSampleId :
JC-1-012323RE

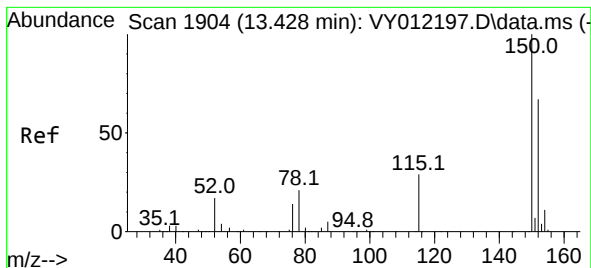
Tgt Ion:106 Resp: 25427
Ion Ratio Lower Upper
106 100
91 203.8 162.5 243.7



#69
o-Xylene
Concen: 4.024 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

Tgt Ion:106 Resp: 15636
Ion Ratio Lower Upper
106 100
91 220.6 107.5 322.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY012437.D

Acq: 01 Feb 2023 13:06

Instrument :

MSVOA_Y

ClientSampleId :

JC-1-012323RE

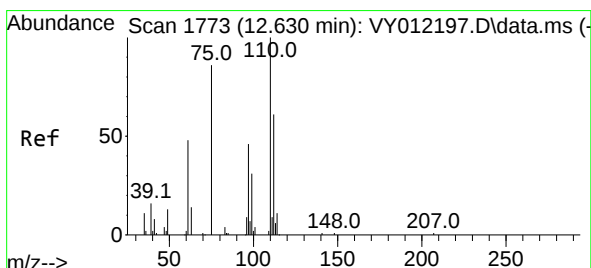
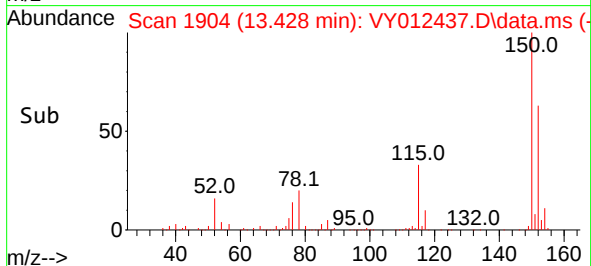
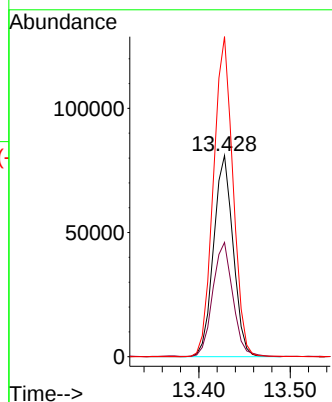
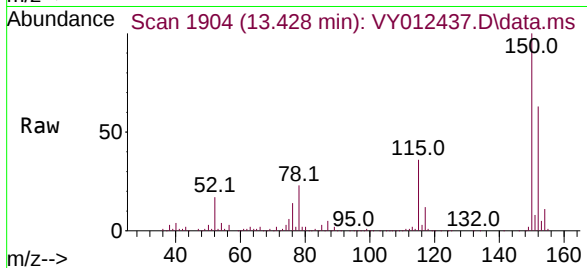
Tgt Ion:152 Resp: 120541

Ion Ratio Lower Upper

152 100

115 58.2 29.1 87.3

150 159.4 0.0 342.6



#76

1,2,3-Trichloropropane

Concen: 55.863 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.147 min

Lab File: VY012437.D

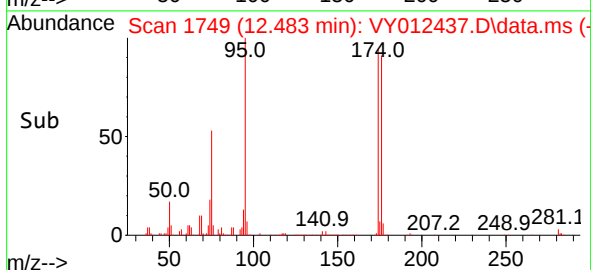
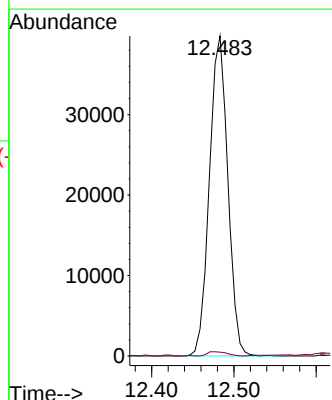
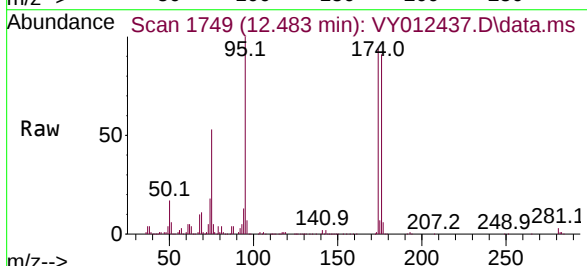
Acq: 01 Feb 2023 13:06

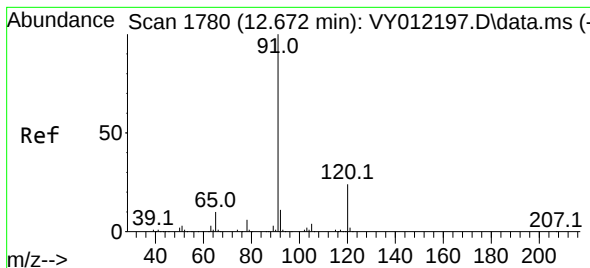
Tgt Ion: 75 Resp: 61920

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#78

n-propylbenzene

Concen: 2.215 ug/l

RT: 12.672 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY012437.D

Acq: 01 Feb 2023 13:06

Instrument :

MSVOA_Y

ClientSampleId :

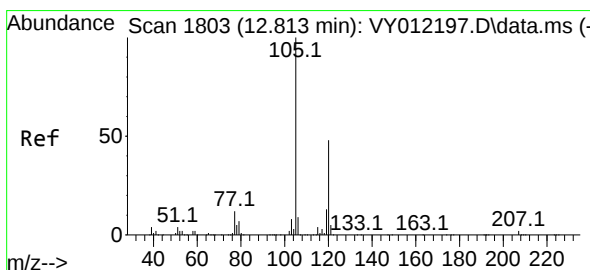
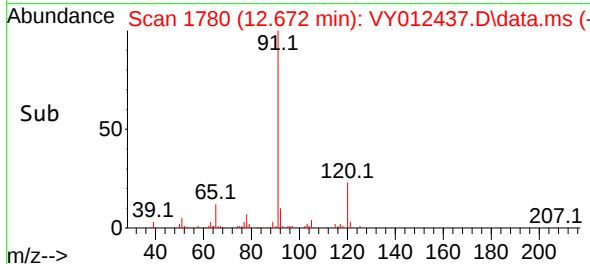
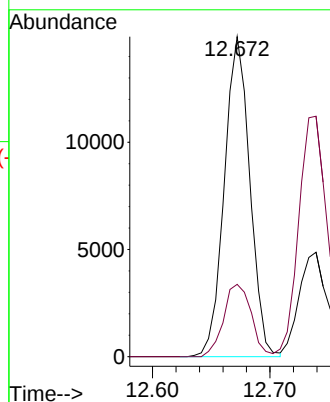
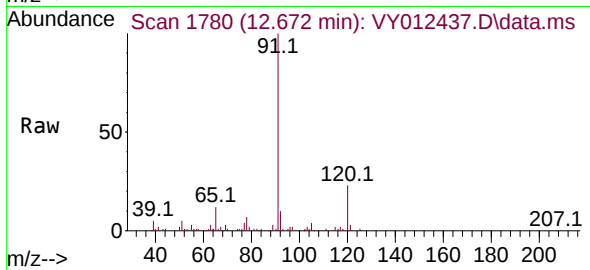
JC-1-012323RE

Tgt Ion: 91 Resp: 22532

Ion Ratio Lower Upper

91 100

120 24.6 11.8 35.4



#80

1,3,5-Trimethylbenzene

Concen: 3.470 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. -0.001 min

Lab File: VY012437.D

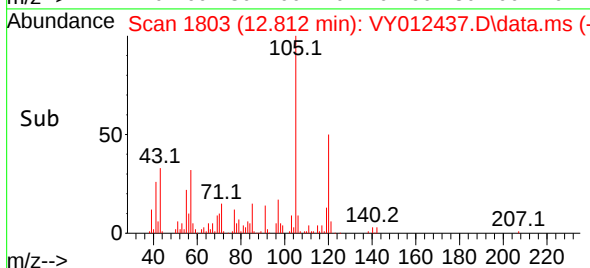
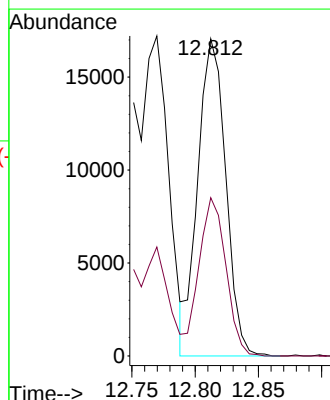
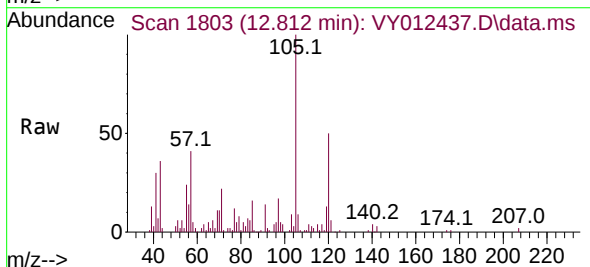
Acq: 01 Feb 2023 13:06

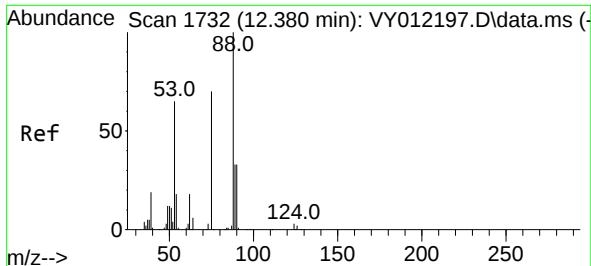
Tgt Ion: 105 Resp: 26221

Ion Ratio Lower Upper

105 100

120 48.6 24.2 72.6

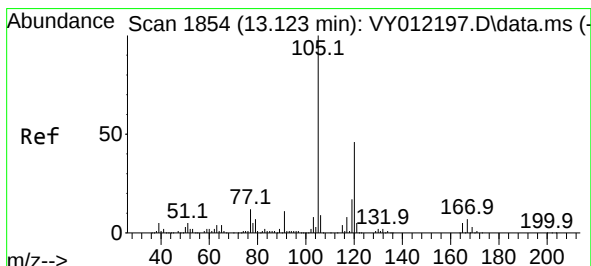
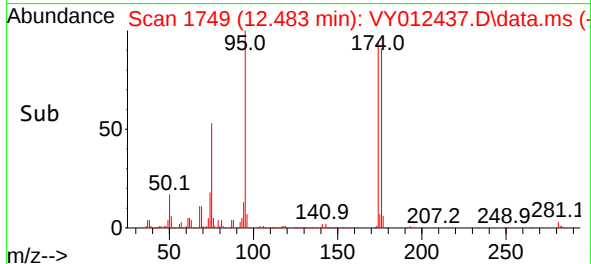
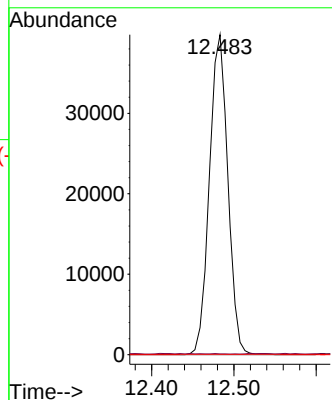
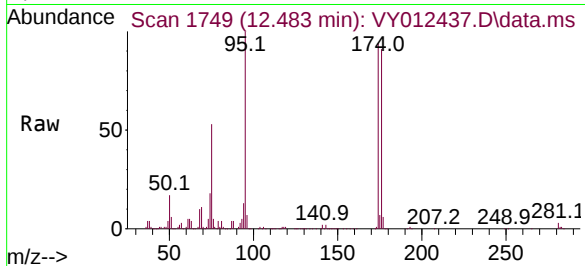




#81
trans-1,4-Dichloro-2-butene
Concen: 115.103 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.109 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

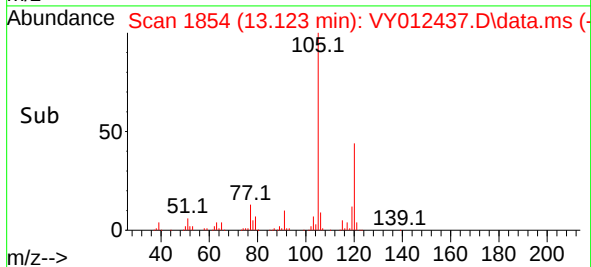
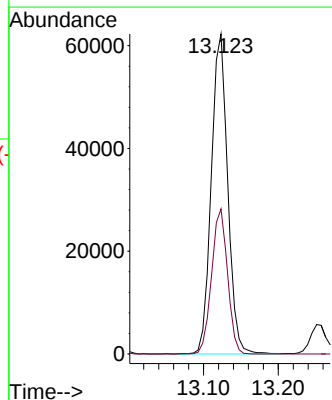
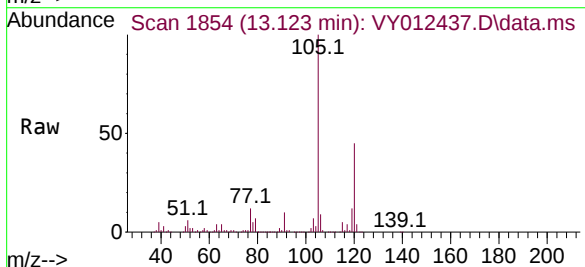
Instrument :
MSVOA_Y
ClientSampleId :
JC-1-012323RE

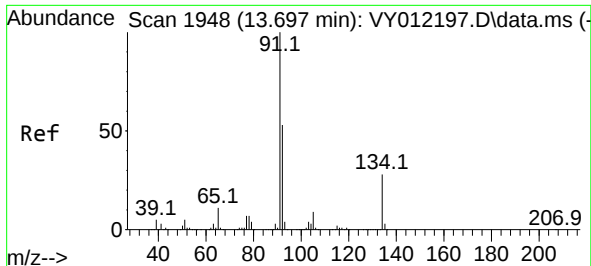
Tgt Ion: 75 Resp: 61920
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 12.740 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VY012437.D
Acq: 01 Feb 2023 13:06

Tgt Ion: 105 Resp: 94933
Ion Ratio Lower Upper
105 100
120 44.0 22.9 68.7





#89

n-Butylbenzene

Concen: 1.776 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. -0.001 min

Lab File: VY012437.D

Acq: 01 Feb 2023 13:06

Instrument :

MSVOA_Y

ClientSampleId :

JC-1-012323RE

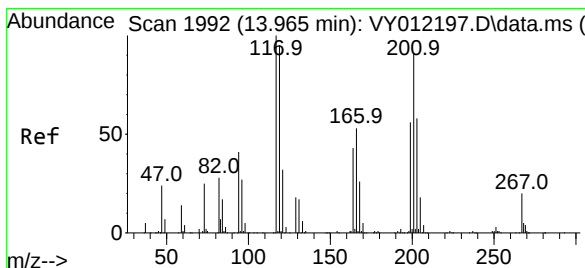
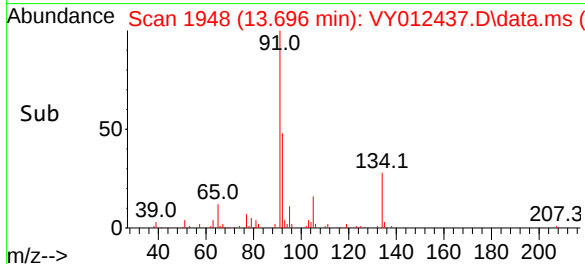
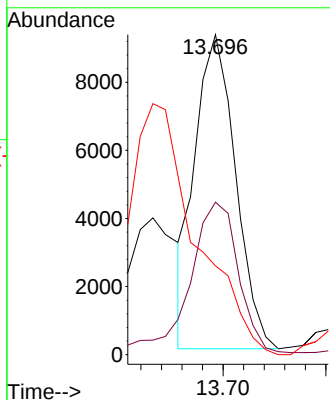
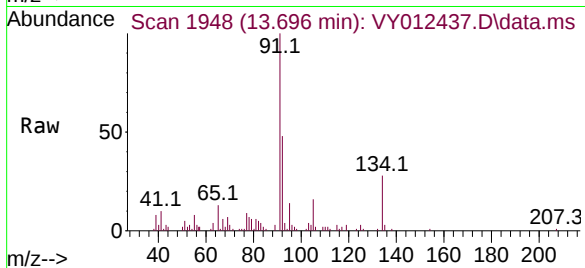
Tgt Ion: 91 Resp: 12607

Ion Ratio Lower Upper

91 100

92 59.8 26.8 80.4

134 0.0 13.3 39.8#



#90

Hexachloroethane

Concen: 2.060 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY012437.D

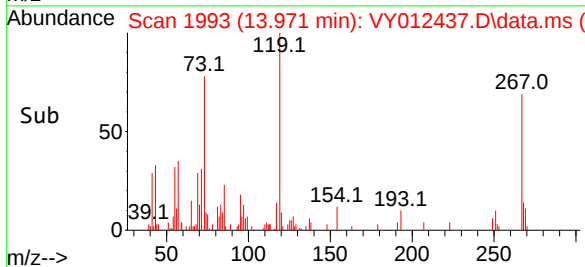
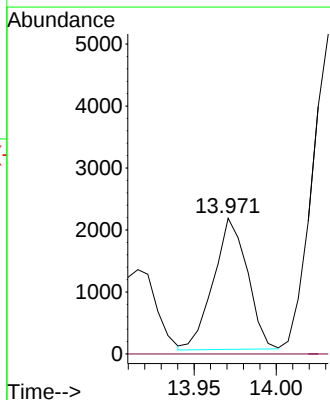
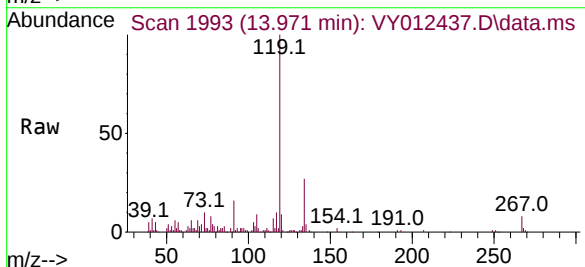
Acq: 01 Feb 2023 13:06

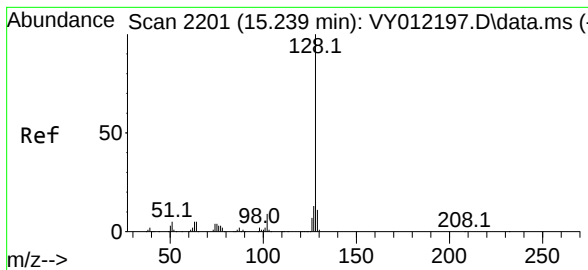
Tgt Ion: 117 Resp: 3047

Ion Ratio Lower Upper

117 100

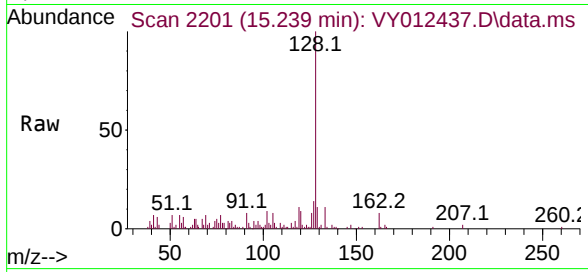
201 0.0 40.3 120.8#





#95
 Naphthalene
 Concen: 4.390 ug/l
 RT: 15.239 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY012437.D
 Acq: 01 Feb 2023 13:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-1-012323RE



Tgt Ion:128 Resp: 20607

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.2
129	12.7	8.8	13.2

