

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U041423\
 Data File : VU053696.D
 Acq On : 13 Apr 2023 21:00
 Operator : JC/MD
 Sample : 02340-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHE07

Quant Time: Apr 14 02:27:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032423WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Apr 14 02:17:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	140159	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	135035	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	67876	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	52168	5.411	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.200%
7) Chloroethane-d5	1.909	69	39960	4.566	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.400%
11) 1,1-Dichloroethene-d2	2.562	65	17699	4.309	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.200%
20) 2-Butanone-d5	4.623	46	84367	38.195	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	76.380%
24) Chloroform-d	5.057	84	78155	4.372	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.400%
26) 1,2-Dichloroethane-d4	5.697	65	37586	4.103	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.000%
32) Benzene-d6	5.723	84	157448	4.114	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
36) 1,2-Dichloropropane-d6	6.687	67	47444	4.069	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.400%
41) Toluene-d8	7.893	98	146561	4.059	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.200%
43) trans-1,3-Dichloroprop...	8.176	79	18308	4.091	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.800%
46) 2-Hexanone-d5	8.629	63	76329	41.994	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.980%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	36524	3.763	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	75.200%
66) 1,2-Dichlorobenzene-d4	12.192	152	52943	4.336	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.800%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	2.575	96	20295	2.557	ug/L #	82
15) Methyl Acetate	2.781	43	1121	0.365	ug/L #	49
17) Methyl tert-butyl Ether	3.359	73	57740	3.001	ug/L	99
18) trans-1,2-Dichloroethene	3.346	96	2905	0.352	ug/L	95
19) 1,1-Dichloroethane	3.864	63	26694	1.758	ug/L	97
22) cis-1,2-Dichloroethene	4.661	96	338984	30.524	ug/L	95
25) Chloroform	5.083	83	9744	0.624	ug/L	99
29) 1,1,1-Trichloroethane	5.314	97	18442	1.383	ug/L	96
31) Carbon tetrachloride	5.317	117	2533	0.225	ug/L	95
34) Trichloroethene	6.539	95	4546109	471.826	ug/L	95
35) Methylcyclohexane	6.687	83	11506	0.696	ug/L #	22
37) 1,2-Dichloropropane	6.687	63	4796	0.502	ug/L #	89
45) 1,1,2-Trichloroethane	8.549	97	25006	3.687	ug/L #	1
47) Tetrachloroethene	8.552	164	2997703	423.440	ug/L	96
49) Dibromochloromethane	8.552	129	2967470	442.392	ug/L #	12
61) 1,2,3-Trichloropropane	11.809	75	8949	1.591	ug/L #	66
65) 1,4-Dichlorobenzene	11.832	146	4050	0.223	ug/L	97
70) 1,2,4-trichlorobenzene	13.841	180	3178	0.316	ug/L	96
72) 1,2,3-Trichlorobenzene	14.333	180	7016	0.799	ug/L	90

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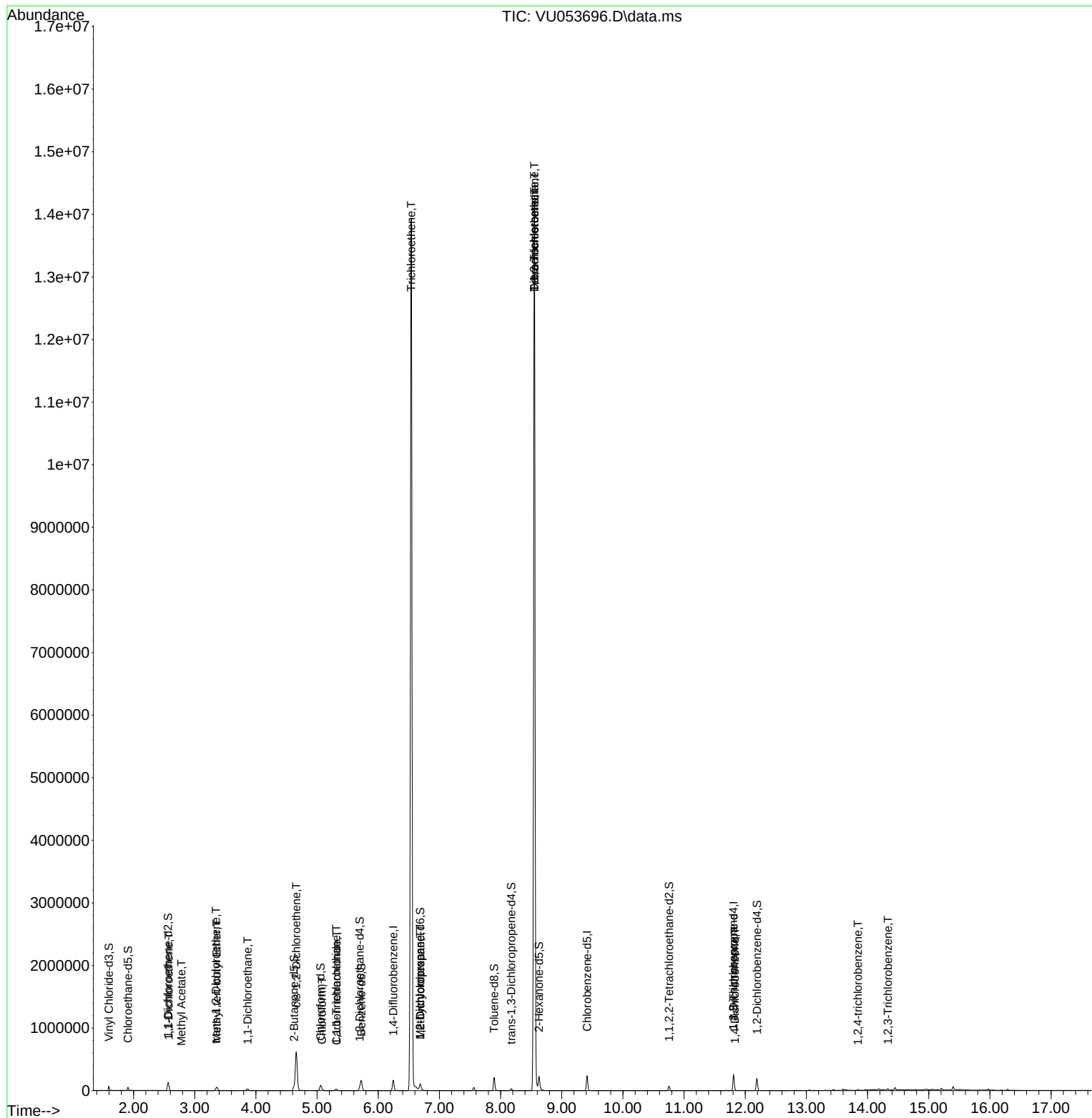
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

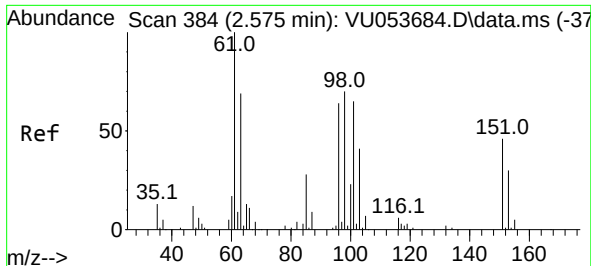
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 2.557 ug/L

RT: 2.575 min Scan# 384

Delta R.T. -0.000 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

Instrument :

MSVOA_U

ClientSampleId :

BHE07

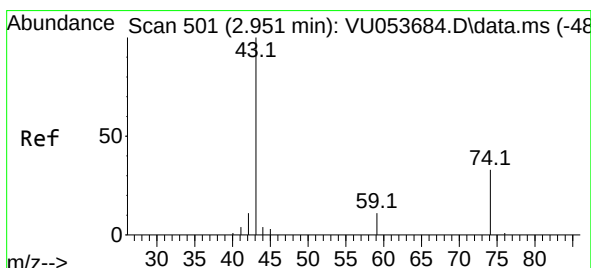
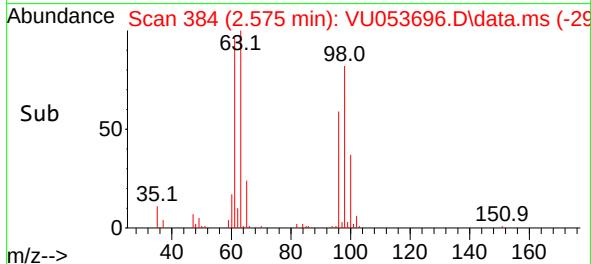
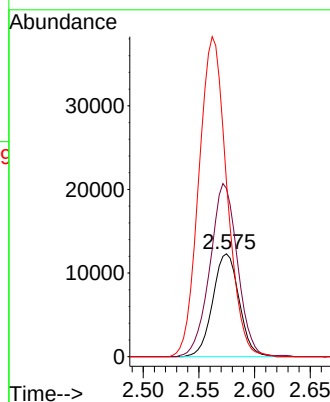
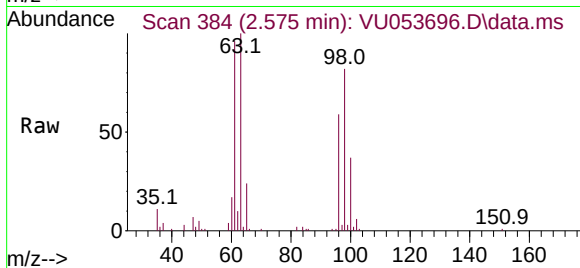
Tgt Ion: 96 Resp: 20295

Ion Ratio Lower Upper

96 100

61 163.5 116.8 216.8

63 169.8 88.6 164.6#



#15

Methyl Acetate

Concen: 0.365 ug/L

RT: 2.781 min Scan# 448

Delta R.T. -0.170 min

Lab File: VU053696.D

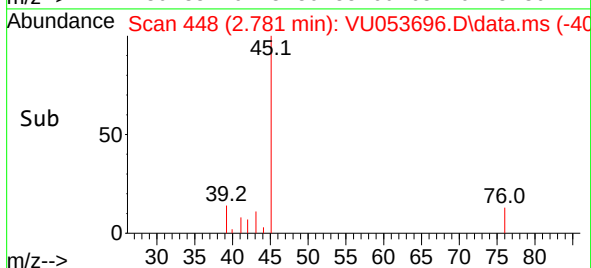
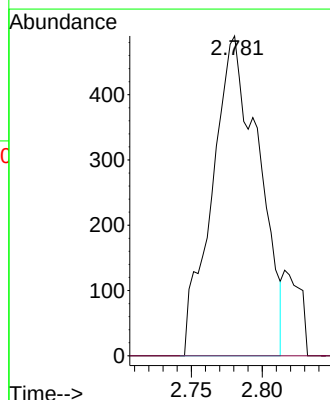
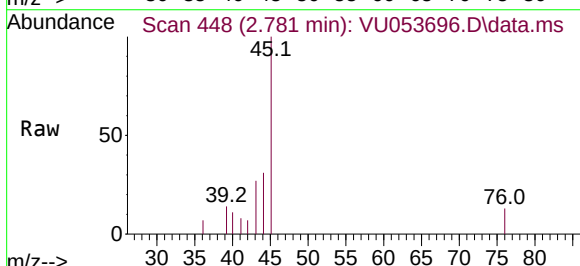
Acq: 13 Apr 2023 21:00

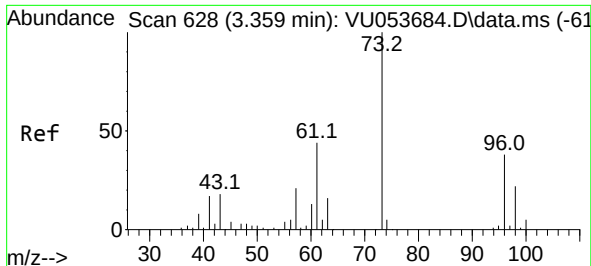
Tgt Ion: 43 Resp: 1121

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#

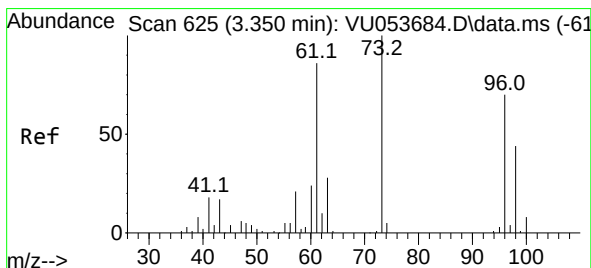
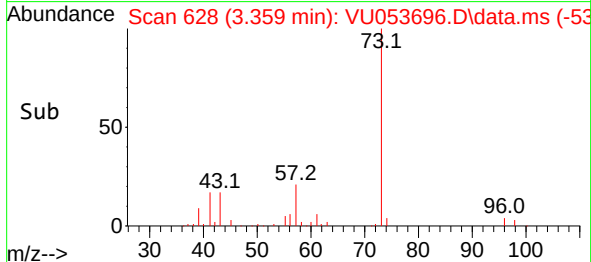
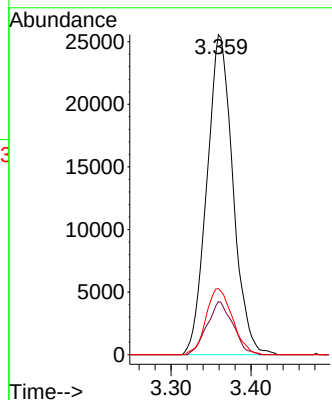
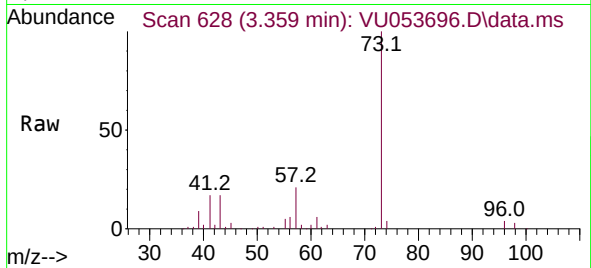




#17
Methyl tert-butyl Ether
Concen: 3.001 ug/L
RT: 3.359 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU053696.D
Acq: 13 Apr 2023 21:00

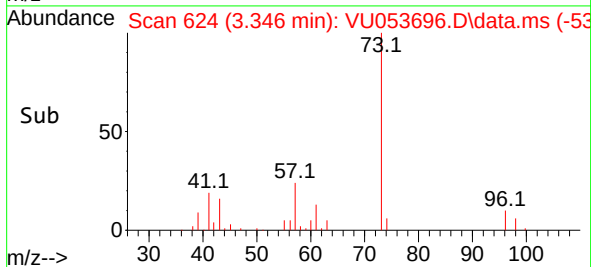
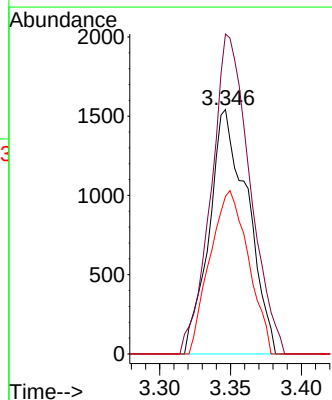
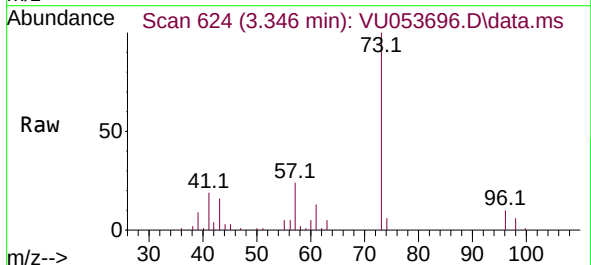
Instrument :
MSVOA_U
ClientSampleId :
BHE07

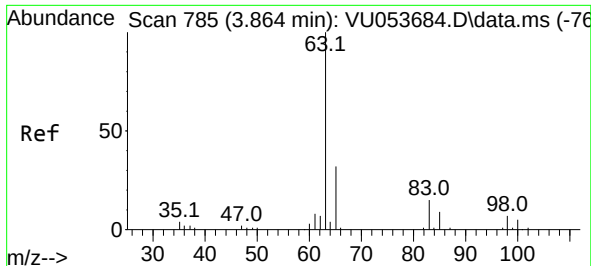
Tgt Ion: 73 Resp: 57740
Ion Ratio Lower Upper
73 100
43 16.4 13.9 20.9
57 21.0 17.0 25.6



#18
trans-1,2-Dichloroethene
Concen: 0.352 ug/L
RT: 3.346 min Scan# 624
Delta R.T. -0.003 min
Lab File: VU053696.D
Acq: 13 Apr 2023 21:00

Tgt Ion: 96 Resp: 2905
Ion Ratio Lower Upper
96 100
61 130.9 95.5 177.3
98 64.5 42.2 78.4





#19

1,1-Dichloroethane

Concen: 1.758 ug/L

RT: 3.864 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

Instrument :

MSVOA_U

ClientSampleId :

BHE07

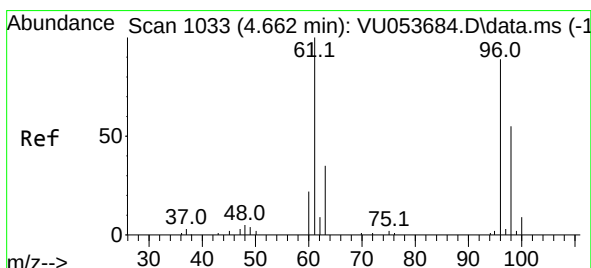
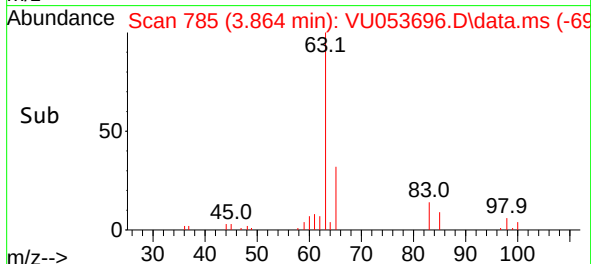
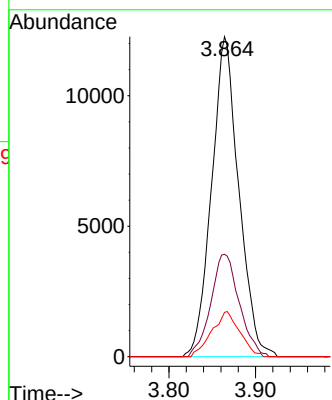
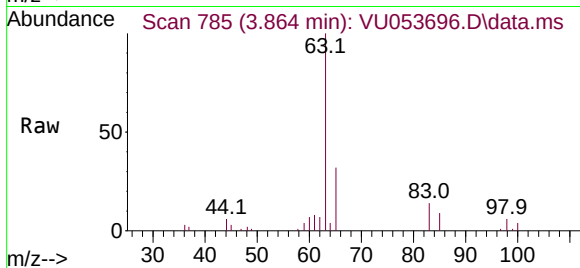
Tgt Ion: 63 Resp: 26694

Ion Ratio Lower Upper

63 100

65 32.0 21.7 40.3

83 13.9 8.1 15.1



#22

cis-1,2-Dichloroethene

Concen: 30.524 ug/L

RT: 4.661 min Scan# 1033

Delta R.T. -0.000 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

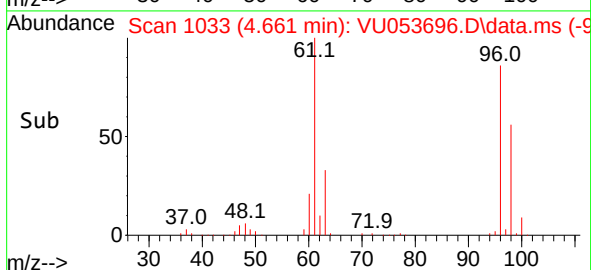
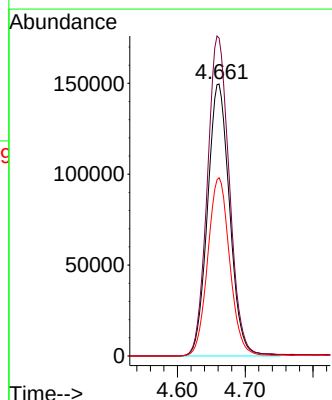
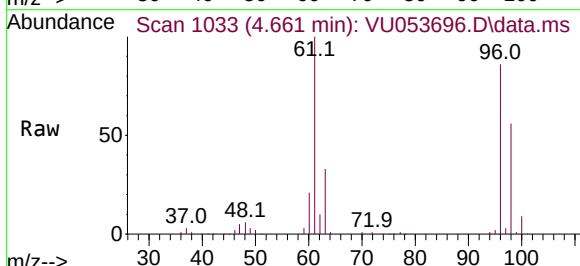
Tgt Ion: 96 Resp: 338984

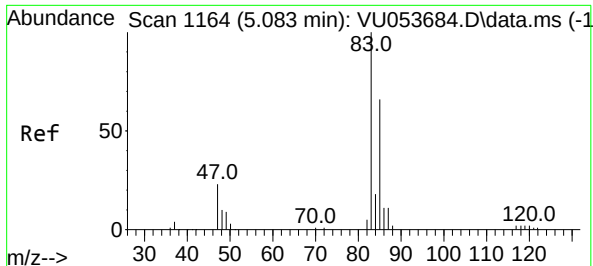
Ion Ratio Lower Upper

96 100

61 116.9 86.6 160.8

98 65.6 47.7 88.5





#25

Chloroform

Concen: 0.624 ug/L

RT: 5.083 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

Instrument :

MSVOA_U

ClientSampleId :

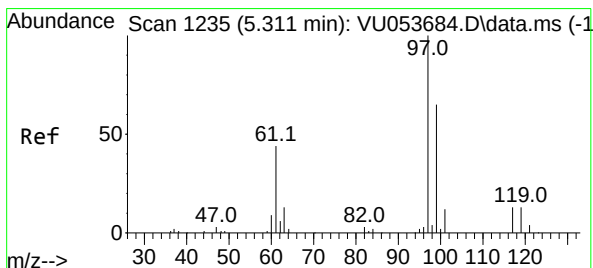
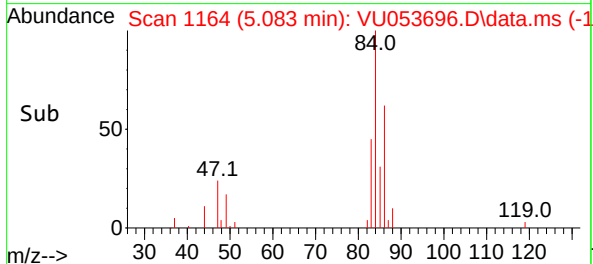
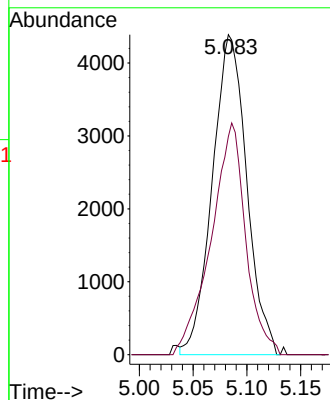
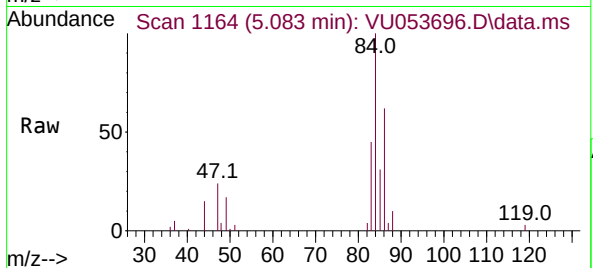
BHE07

Tgt Ion: 83 Resp: 9744

Ion Ratio Lower Upper

83 100

85 68.1 47.3 87.9



#29

1,1,1-Trichloroethane

Concen: 1.383 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.003 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

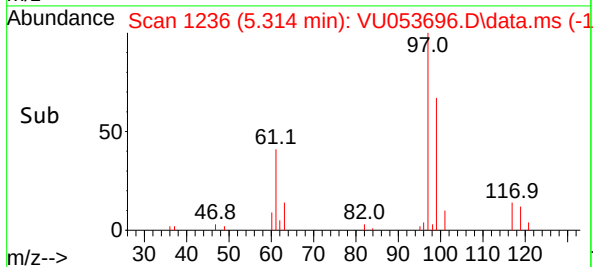
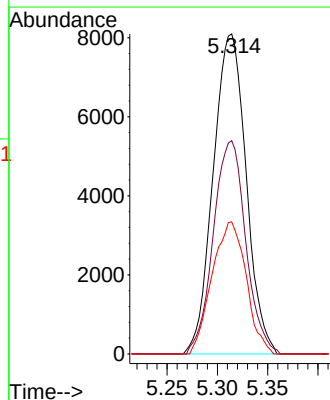
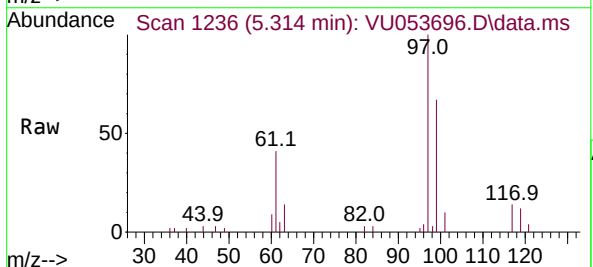
Tgt Ion: 97 Resp: 18442

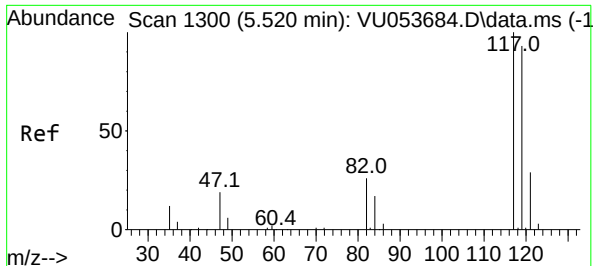
Ion Ratio Lower Upper

97 100

99 65.7 49.9 74.9

61 42.7 35.7 53.5

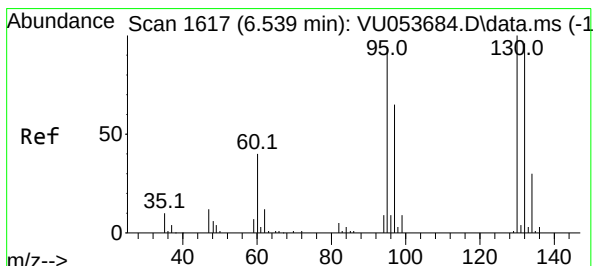
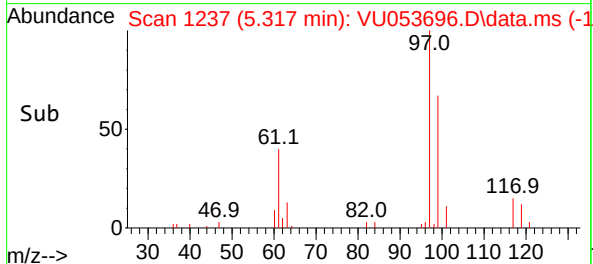
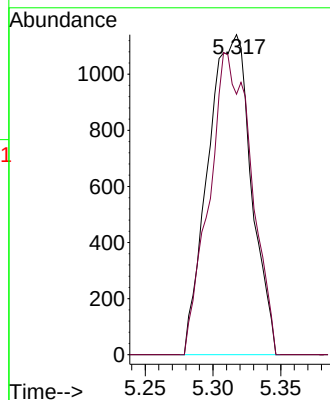
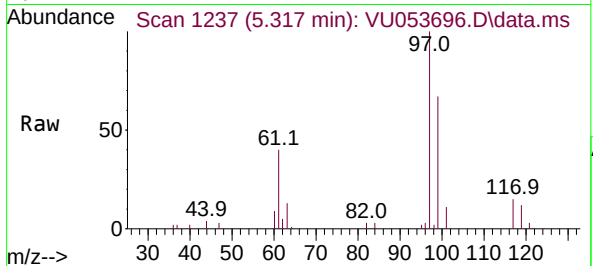




#31
Carbon tetrachloride
Concen: 0.225 ug/L
RT: 5.317 min Scan# 117
Delta R.T. -0.203 min
Lab File: VU053696.D
Acq: 13 Apr 2023 21:00

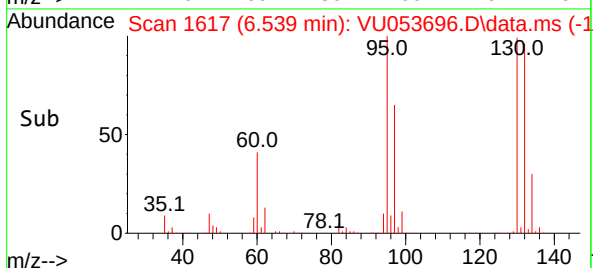
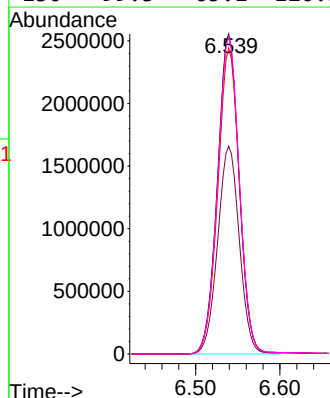
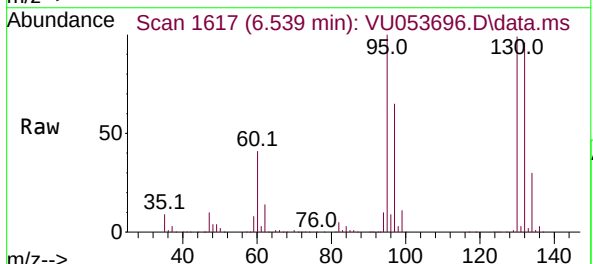
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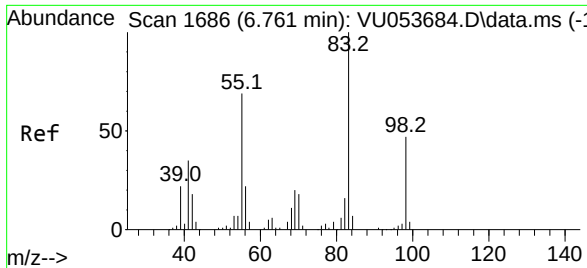
Tgt Ion: 117 Resp: 2533
Ion Ratio Lower Upper
117 100
119 92.1 77.7 116.5



#34
Trichloroethene
Concen: 471.826 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VU053696.D
Acq: 13 Apr 2023 21:00

Tgt Ion: 95 Resp: 4546109
Ion Ratio Lower Upper
95 100
97 65.0 45.3 84.1
132 95.6 62.8 116.6
130 99.3 65.1 120.9





#35

Methylcyclohexane

Concen: 0.696 ug/L

RT: 6.687 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

Instrument :

MSVOA_U

ClientSampleId :

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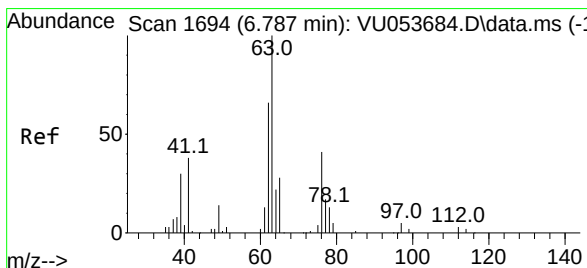
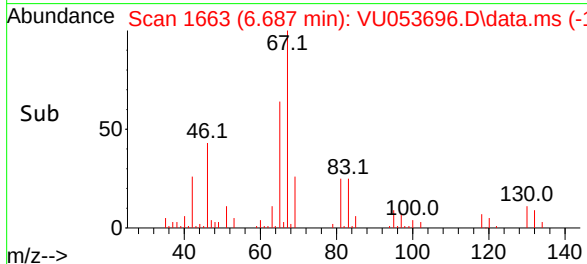
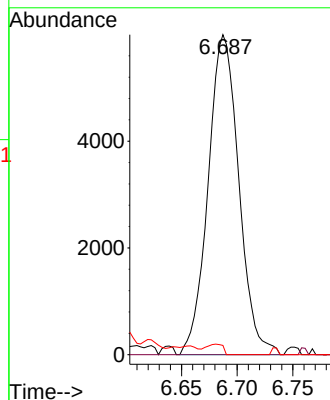
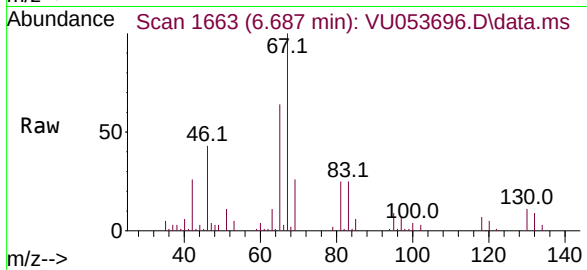
Tgt Ion: 83 Resp: 11506

Ion Ratio Lower Upper

83 100

55 0.4 54.9 82.3#

98 0.0 34.9 52.3#



#37

1,2-Dichloropropane

Concen: 0.502 ug/L

RT: 6.687 min Scan# 1663

Delta R.T. -0.100 min

Lab File: VU053696.D

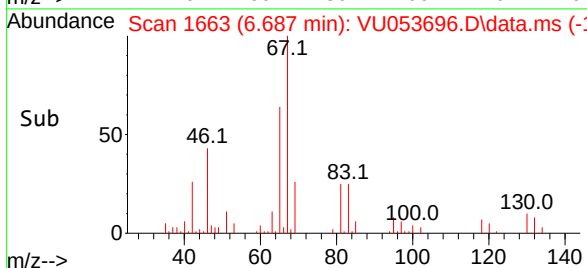
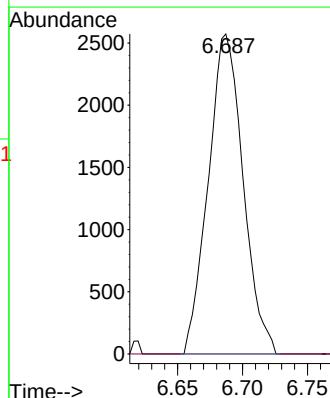
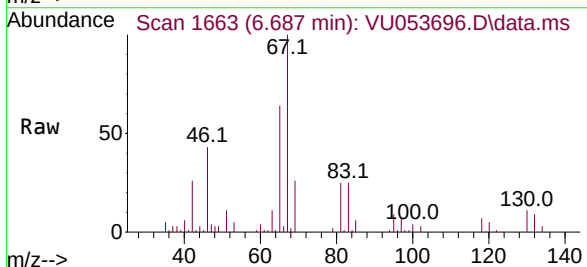
Acq: 13 Apr 2023 21:00

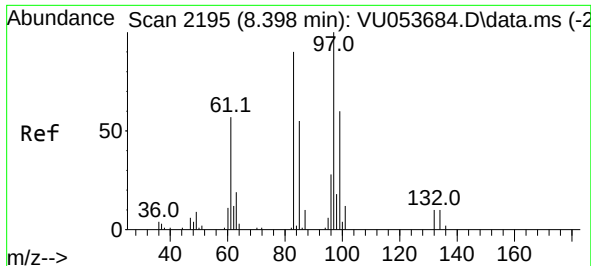
Tgt Ion: 63 Resp: 4796

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.4#





#45

1,1,2-Trichloroethane

Concen: 3.687 ug/L

RT: 8.549 min Scan# 2195

Delta R.T. 0.151 min

Lab File: VU053696.D

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Instrument :

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Tgt Ion: 97 Resp: 25006

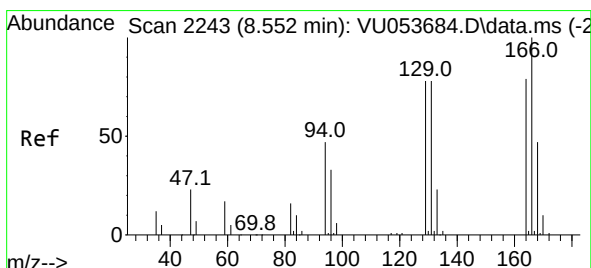
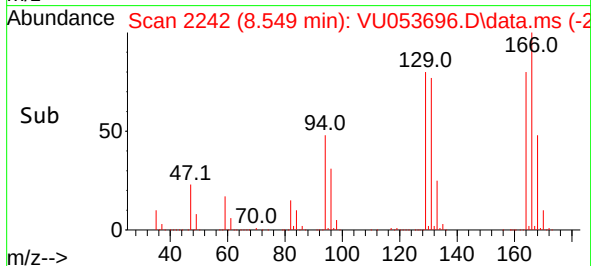
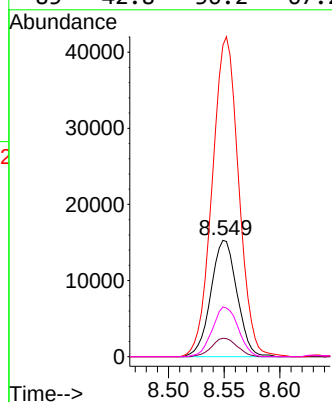
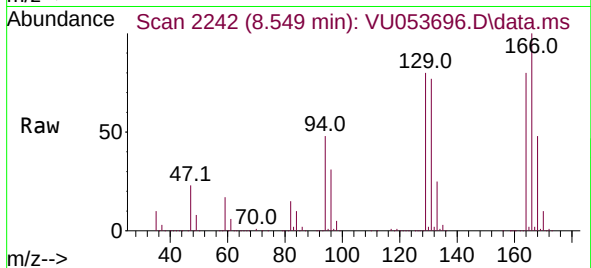
Ion Ratio Lower Upper

97 100

99 15.8 38.9 72.2#

83 267.6 57.6 107.0#

85 42.8 36.2 67.2



#47

Tetrachloroethene

Concen: 423.440 ug/L

RT: 8.552 min Scan# 2243

Delta R.T. -0.000 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

Tgt Ion:164 Resp: 2997703

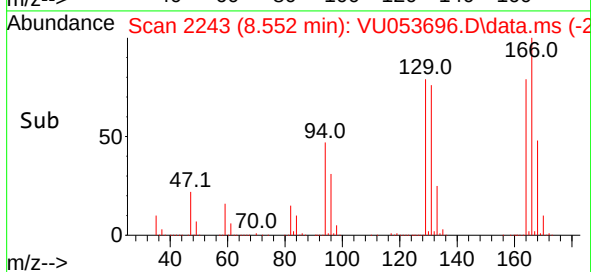
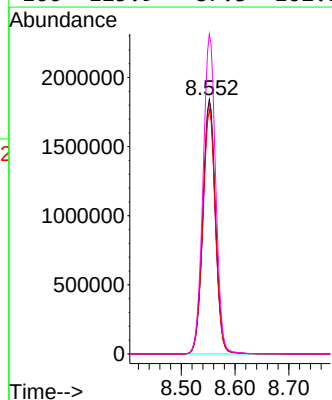
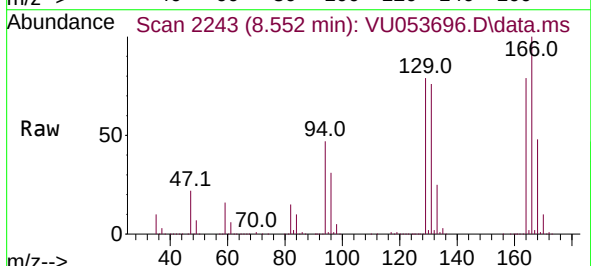
Ion Ratio Lower Upper

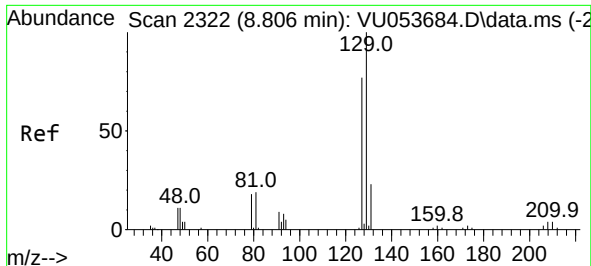
164 100

129 99.2 74.8 138.8

131 96.1 70.1 130.1

166 125.9 87.3 162.1





#49

Dibromochloromethane

Concen: 442.392 ug/L

RT: 8.552 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

Instrument :

MSVOA_U

ClientSampleId :

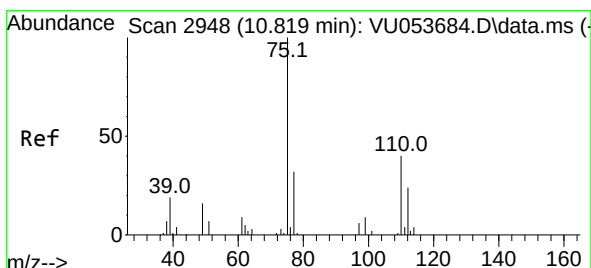
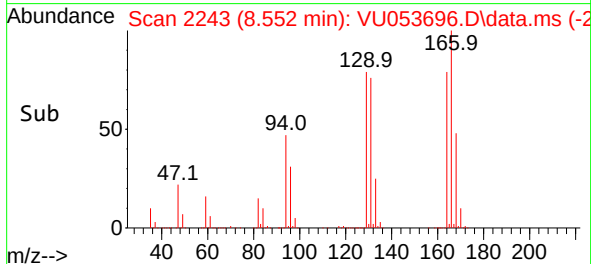
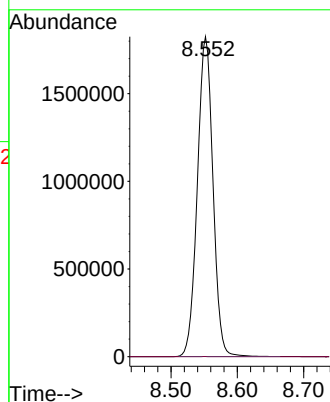
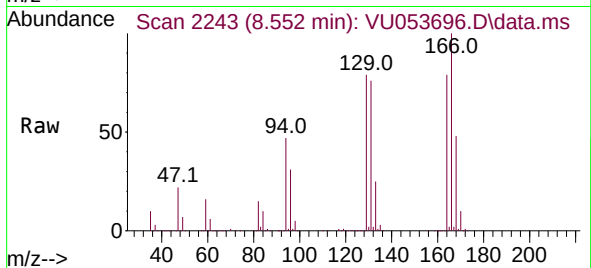
BHE07

Tgt Ion:129 Resp: 2967470

Ion Ratio Lower Upper

129 100

127 0.0 52.2 97.0#



#61

1,2,3-Trichloropropane

Concen: 1.591 ug/L

RT: 11.809 min Scan# 3256

Delta R.T. 0.990 min

Lab File: VU053696.D

Acq: 13 Apr 2023 21:00

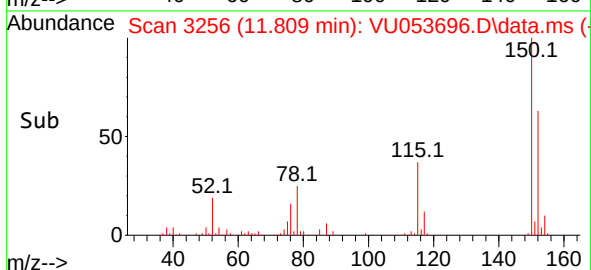
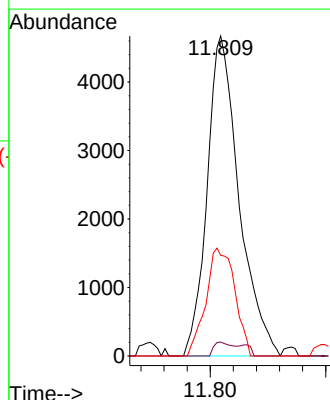
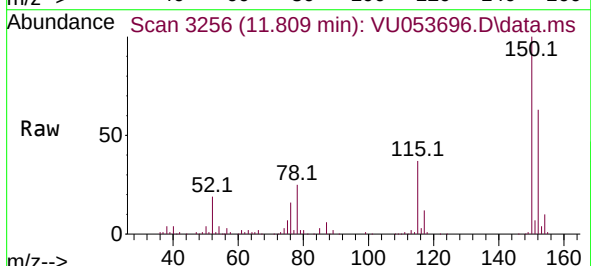
Tgt Ion: 75 Resp: 8949

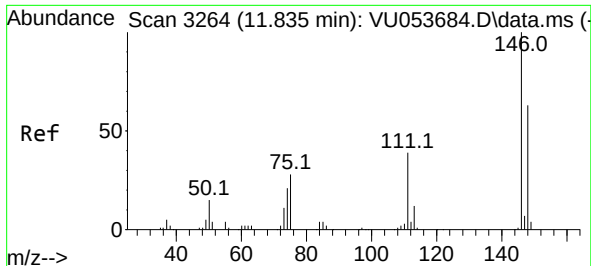
Ion Ratio Lower Upper

75 100

110 2.5 30.6 46.0#

77 30.5 26.1 39.1

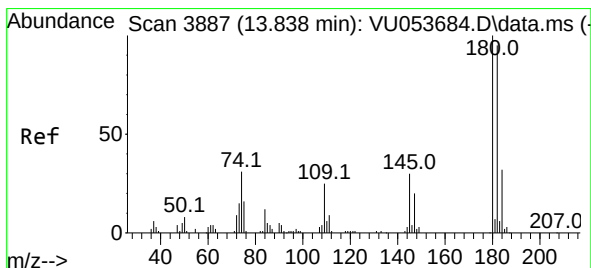
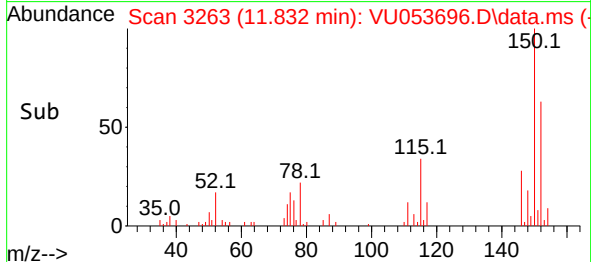
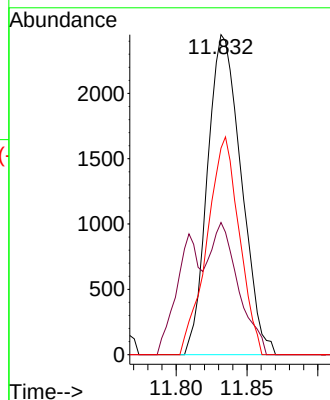
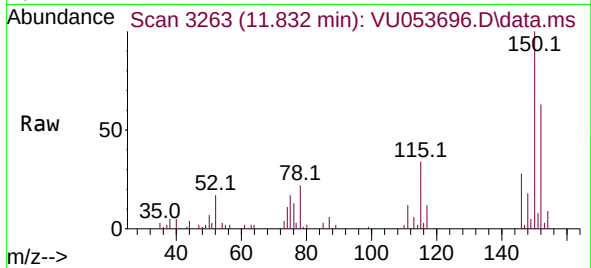




#65
1,4-Dichlorobenzene
Concen: 0.223 ug/L
RT: 11.832 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU053696.D
Acq: 13 Apr 2023 21:00

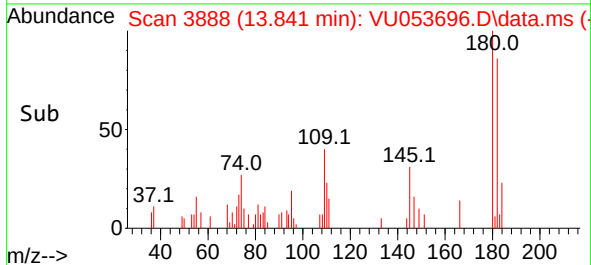
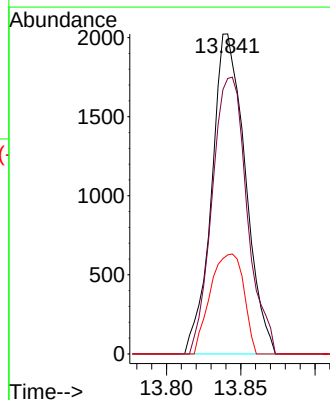
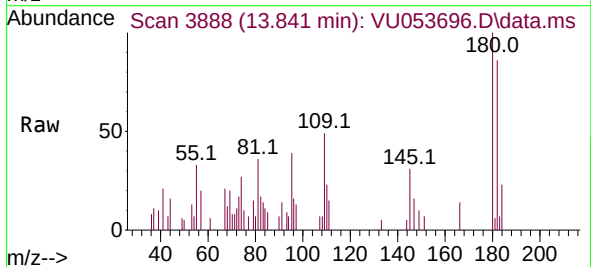
Instrument :
MSVOA_U
ClientSampleId :
BHE07

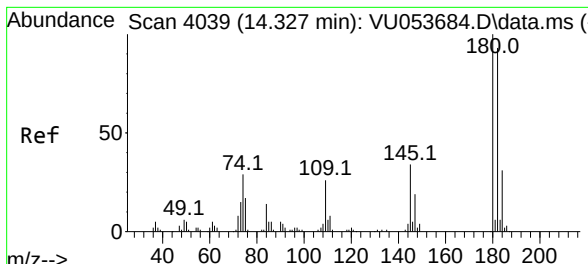
Tgt Ion:146 Resp: 4050
Ion Ratio Lower Upper
146 100
111 41.3 29.8 55.4
148 64.5 43.0 80.0



#70
1,2,4-trichlorobenzene
Concen: 0.316 ug/L
RT: 13.841 min Scan# 3888
Delta R.T. 0.003 min
Lab File: VU053696.D
Acq: 13 Apr 2023 21:00

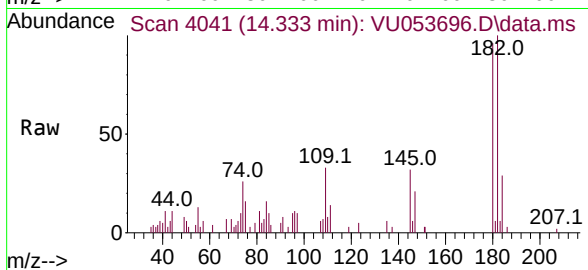
Tgt Ion:180 Resp: 3178
Ion Ratio Lower Upper
180 100
182 89.8 75.4 113.2
145 31.0 25.8 38.8





#72
 1,2,3-Trichlorobenzene
 Concen: 0.799 ug/L
 RT: 14.333 min Scan# 4041
 Delta R.T. 0.006 min
 Lab File: VU053696.D
 Acq: 13 Apr 2023 21:00

Instrument :
 MSVOA_U
 ClientSampleId :
 BHE07



Tgt Ion:	180	Resp:	7016
Ion Ratio	Lower	Upper	
180	100		
182	103.9	74.8	112.2
145	36.6	26.3	39.5

