

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041823\
 Data File : VW030654.D
 Acq On : 19 Apr 2023 06:14
 Operator : SY/MD
 Sample : 02360-20
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AQ3

Quant Time: Apr 19 06:57:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM041723WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 18 02:45:56 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	232750	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	221638	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	103760	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	66784	39.141	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	78.280%		
7) Chloroethane-d5	1.536	69	58923	41.210	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.420%		
11) 1,1-Dichloroethene-d2	2.066	65	32169	39.756	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	79.520%		
21) 2-Butanone-d5	3.799	46	97127	103.639	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	103.640%		
24) Chloroform-d	4.259	84	134038	43.348	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.700%		
26) 1,2-Dichloroethane-d4	4.950	65	98638	49.617	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	99.240%		
32) Benzene-d6	4.970	84	257440	49.128	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	98.260%		
36) 1,2-Dichloropropane-d6	5.998	67	82807	50.873	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	101.740%		
41) Toluene-d8	7.252	98	218482	44.407	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	88.820%		
43) trans-1,3-Dichloroprop...	7.561	79	35350	43.088	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	86.180%		
47) 2-Hexanone-d5	8.034	63	57577	89.792	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	89.790%		
56) 1,1,2,2-Tetrachloroeth...	10.162	84	109387	46.313	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	92.620%		
66) 1,2-Dichlorobenzene-d4	11.571	152	85798	52.023	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	104.040%		
Target Compounds						Qvalue
10) 1,1,2-Trichloro-1,2,2-...	2.076	101	4166	2.311	ug/L #	80
19) 1,1-Dichloroethane	3.124	63	2778	0.828	ug/L #	86
20) cis-1,2-Dichloroethene	3.825	96	48722	27.223	ug/L	97
25) Chloroform	4.285	83	7013	2.020	ug/L	91
30) 1,1,1-Trichloroethane	4.523	97	136237	43.745	ug/L	99
31) Carbon tetrachloride	4.526	117	17188	6.173	ug/L	100
33) Benzene	5.021	78	161801	24.040	ug/L	100
34) Trichloroethene	5.838	95	970536	554.384	ug/L	97
37) 1,2-Dichloropropane	5.835	63	1913	1.056	ug/L	100
39) cis-1,3-Dichloropropene	6.921	75	2527	0.929	ug/L #	72
44) trans-1,3-Dichloropropene	7.558	75	2040	0.764	ug/L #	63
51) Chlorobenzene	8.822	112	638607	133.757	ug/L	100
64) 1,3-Dichlorobenzene	11.127	146	17911	5.528	ug/L	99
65) 1,4-Dichlorobenzene	11.217	146	380485	111.373	ug/L	99
67) 1,2-Dichlorobenzene	11.587	146	284990	87.196	ug/L	99
69) 1,3,5-Trichlorobenzene	13.207	180	30398	12.421	ug/L	96
70) 1,2,4-trichlorobenzene	13.207	180	30398	14.629	ug/L	96
72) 1,2,3-Trichlorobenzene	13.689	180	9480	4.601	ug/L	93

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QLast Update : Tue Apr 18 02:45:56 2023
Response via : Initial Calibration

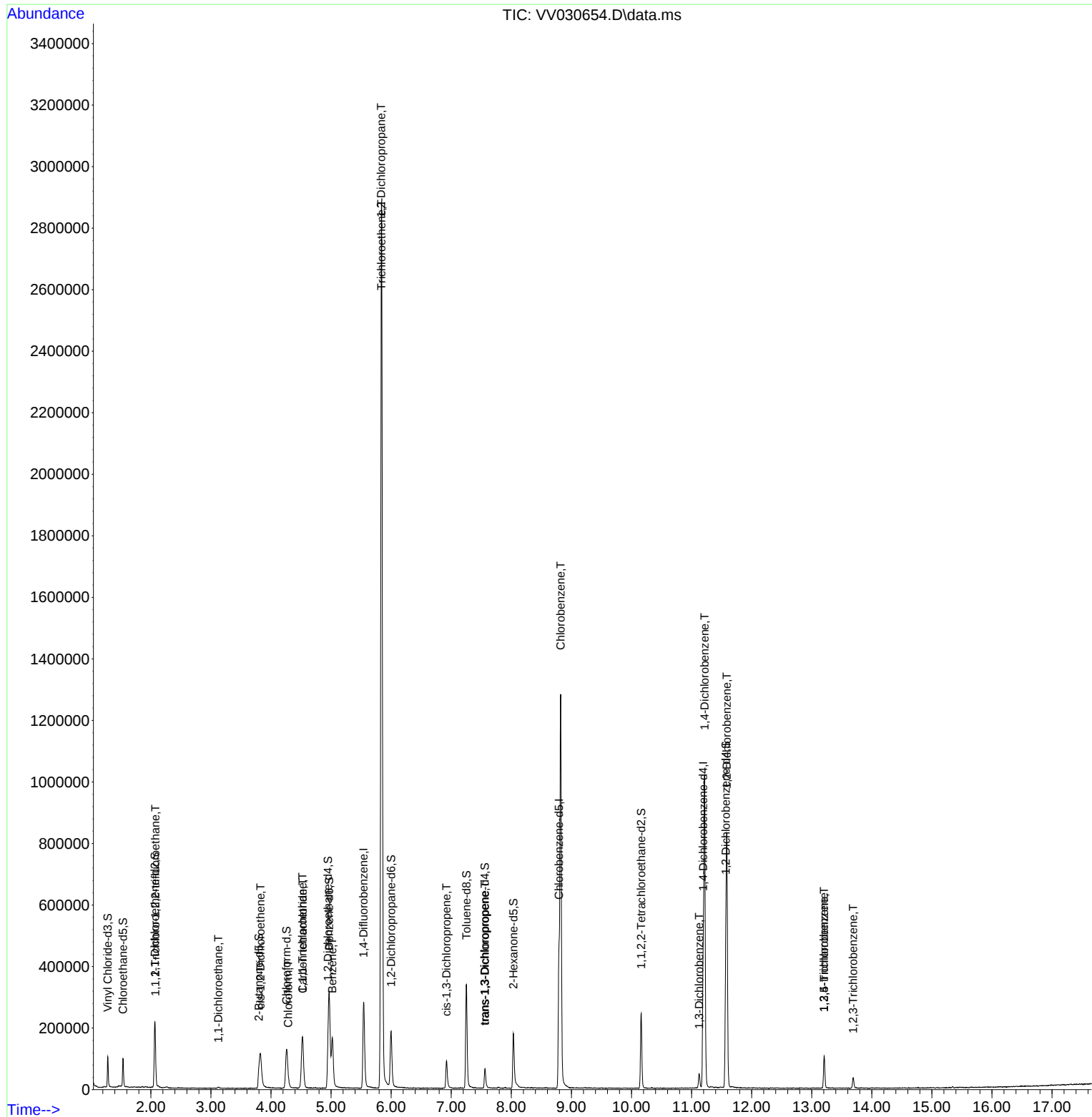
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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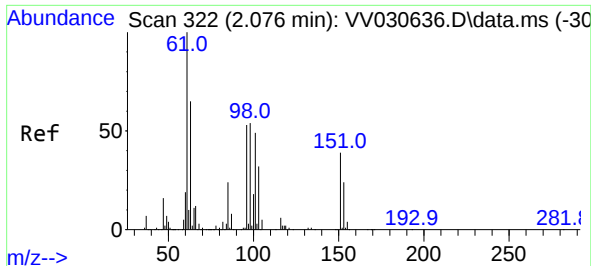
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.311 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

Instrument :

MSVOA_V

ClientSampleId :

C0AQ3

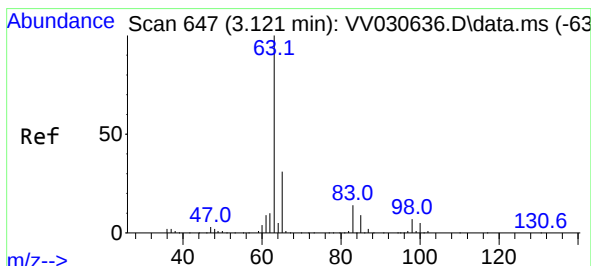
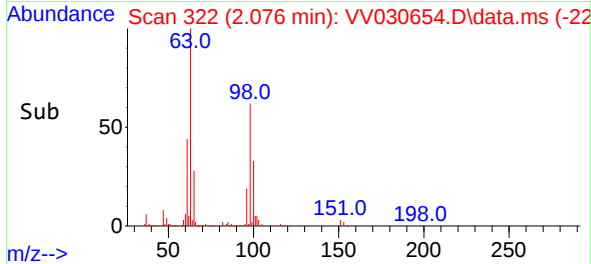
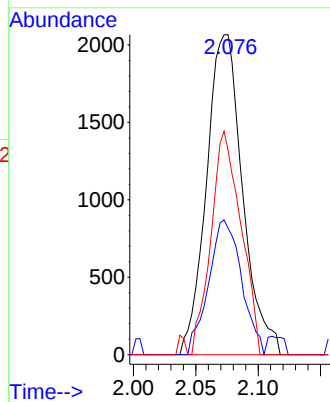
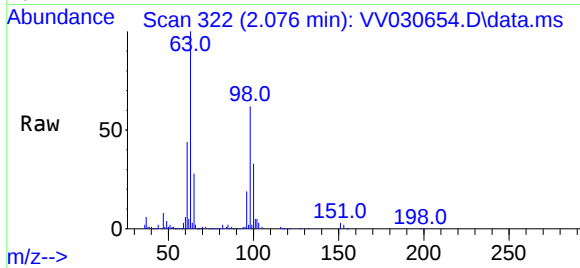
Tgt Ion:101 Resp: 4166

Ion Ratio Lower Upper

101 100

85 38.5 37.5 56.3

151 58.1 63.5 95.3#



#19

1,1-Dichloroethane

Concen: 0.828 ug/L

RT: 3.124 min Scan# 648

Delta R.T. 0.007 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

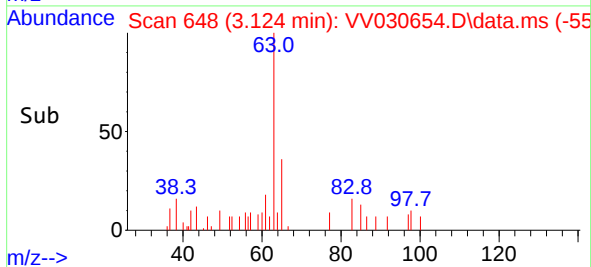
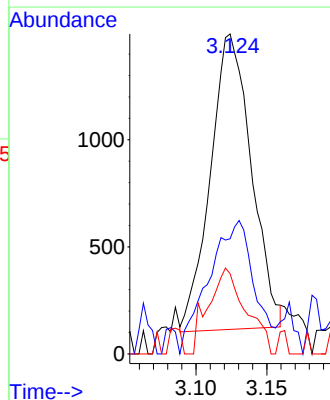
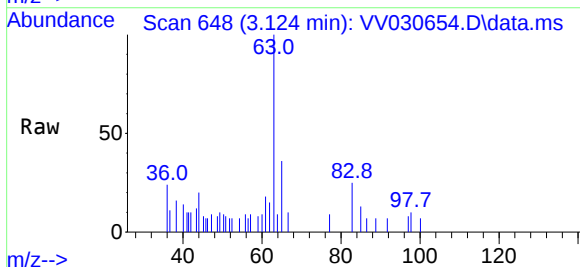
Tgt Ion: 63 Resp: 2778

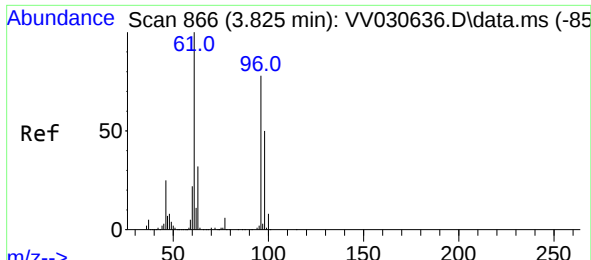
Ion Ratio Lower Upper

63 100

65 36.0 21.8 40.6

83 25.0 10.2 19.0#

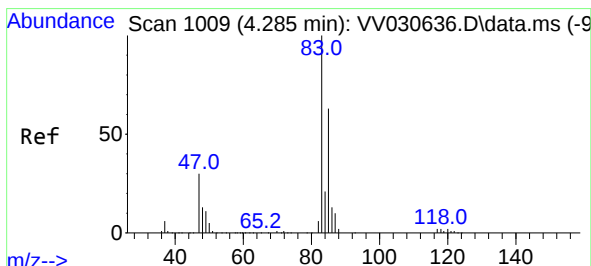
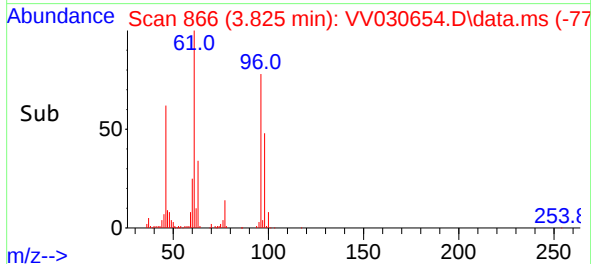
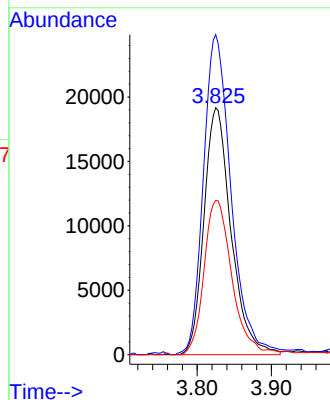
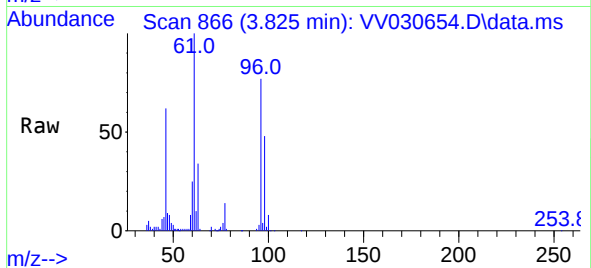




#20
cis-1,2-Dichloroethene
Concen: 27.223 ug/L
RT: 3.825 min Scan# 866
Delta R.T. 0.003 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

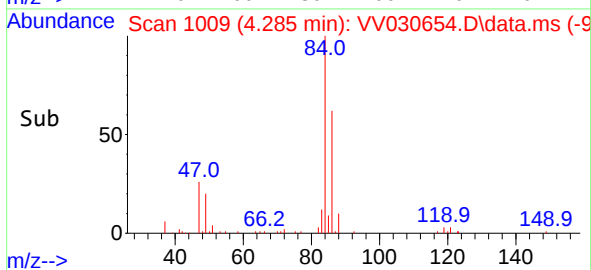
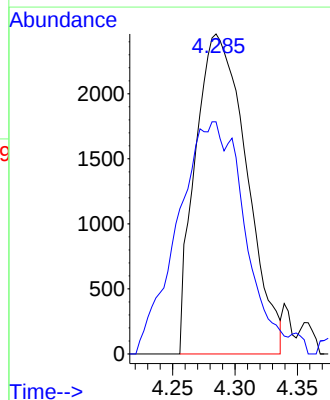
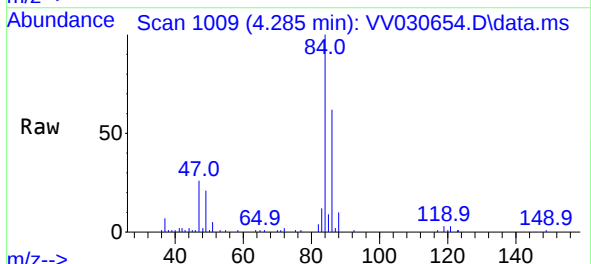
Instrument :
MSVOA_V
ClientSampleId :
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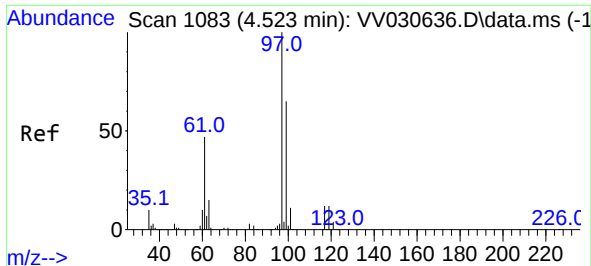
Tgt Ion: 96 Resp: 48722
Ion Ratio Lower Upper
96 100
61 129.5 92.3 171.3
98 62.4 45.9 85.3



#25
Chloroform
Concen: 2.020 ug/L
RT: 4.285 min Scan# 1009
Delta R.T. 0.000 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

Tgt Ion: 83 Resp: 7013
Ion Ratio Lower Upper
83 100
85 72.6 45.8 85.2





#30

1,1,1-Trichloroethane

Concen: 43.745 ug/L

RT: 4.523 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

Instrument :

MSVOA_V

ClientSampleId :

C0AQ3

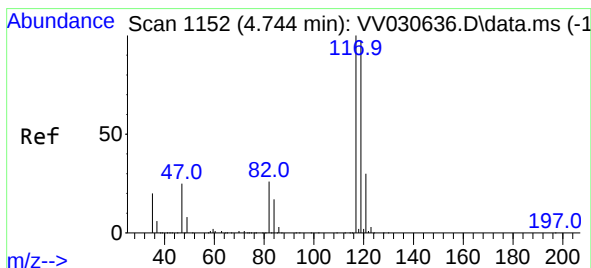
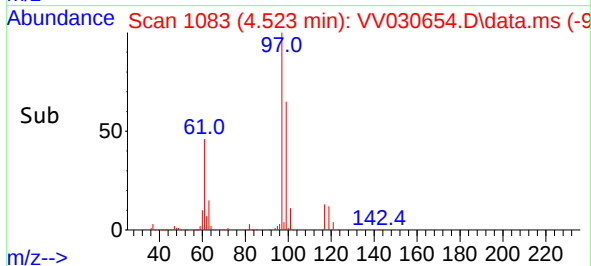
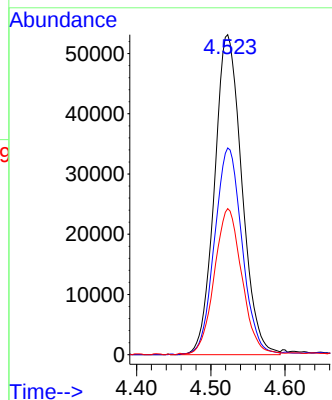
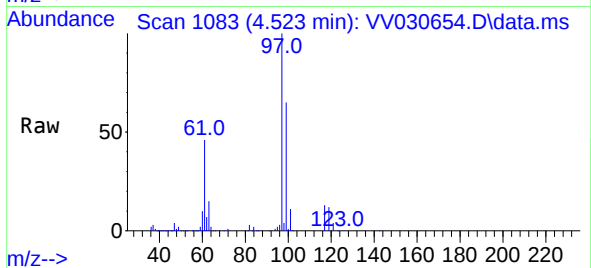
Tgt Ion: 97 Resp: 136237

Ion Ratio Lower Upper

97 100

99 65.0 51.4 77.0

61 45.5 37.0 55.6



#31

Carbon tetrachloride

Concen: 6.173 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. -0.219 min

Lab File: VV030654.D

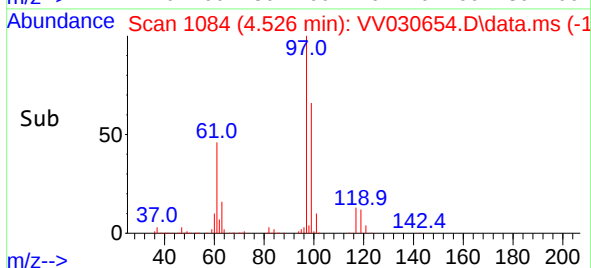
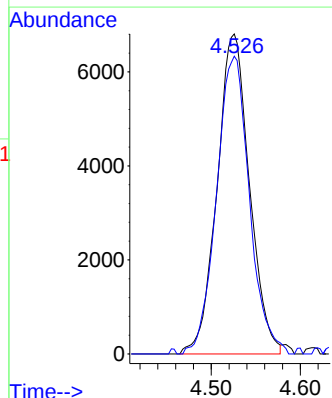
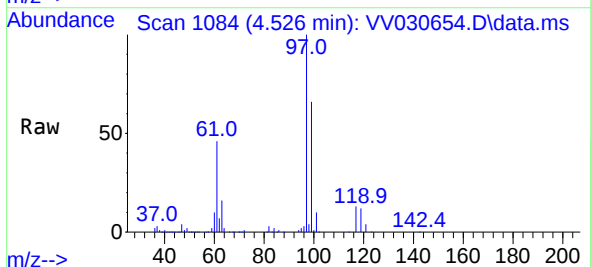
Acq: 19 Apr 2023 06:14

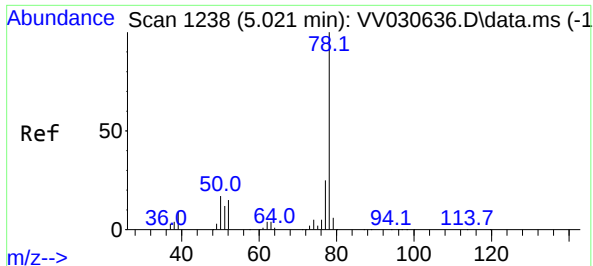
Tgt Ion: 117 Resp: 17188

Ion Ratio Lower Upper

117 100

119 94.5 75.9 113.9

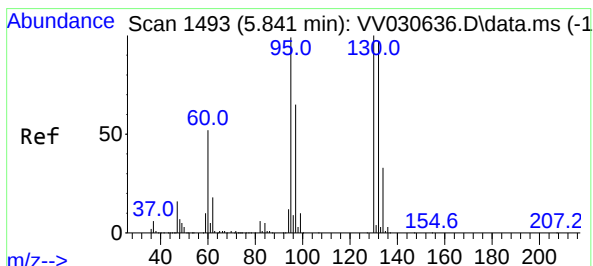
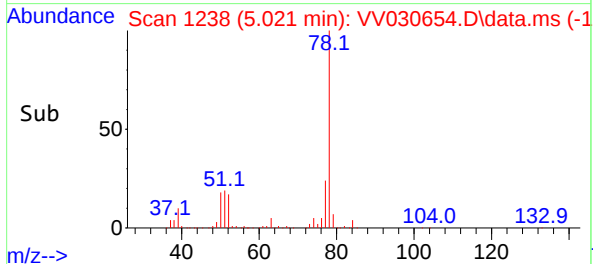
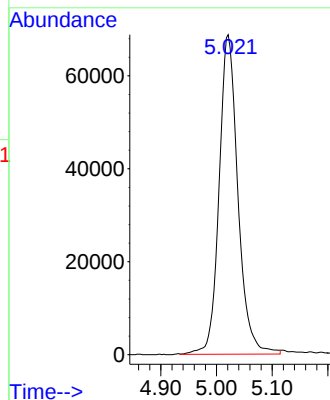
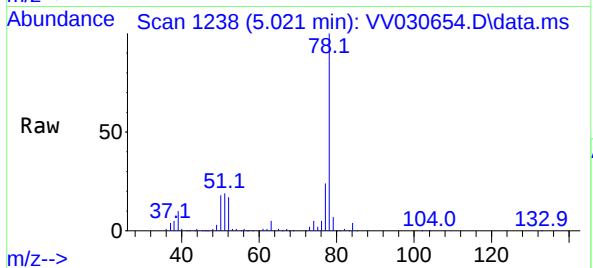




#33
Benzene
Concen: 24.040 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

Instrument :
MSVOA_V
ClientSampleId :
C0AQ3

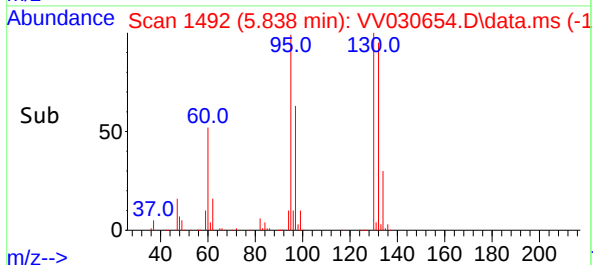
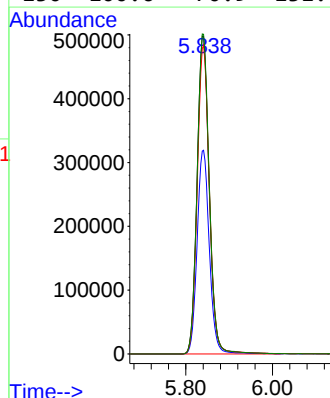
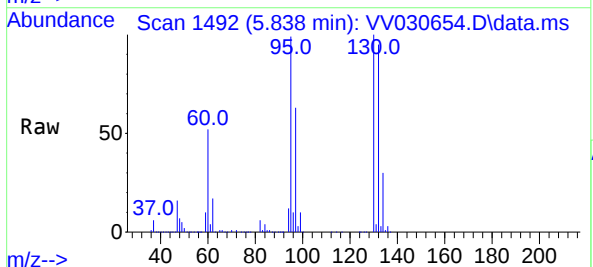
Tgt Ion: 78 Resp: 161801

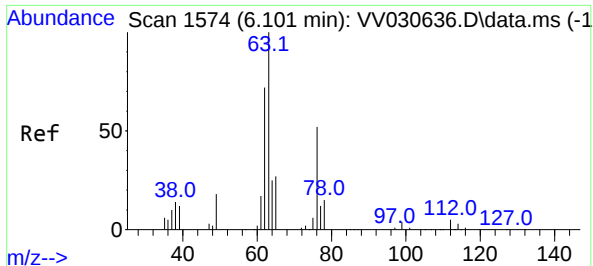


#34
Trichloroethene
Concen: 554.384 ug/L
RT: 5.838 min Scan# 1492
Delta R.T. -0.003 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

Tgt Ion: 95 Resp: 970536

Ion	Ratio	Lower	Upper
95	100		
97	63.8	45.8	85.2
132	96.0	70.6	131.2
130	100.6	70.9	131.7

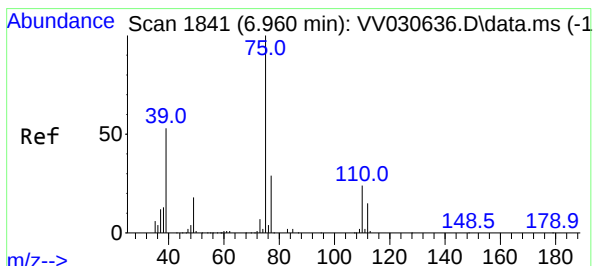
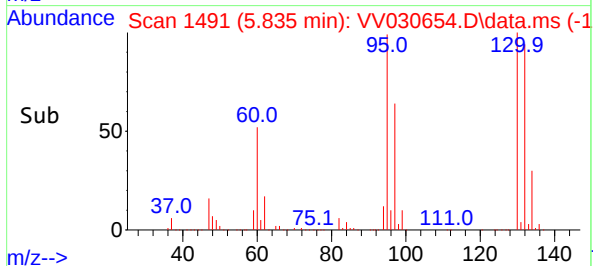
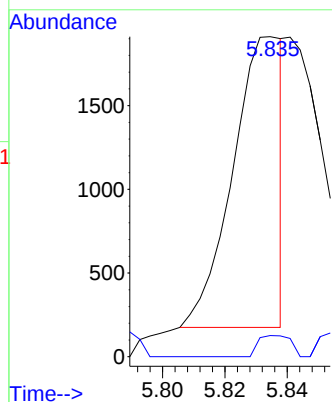
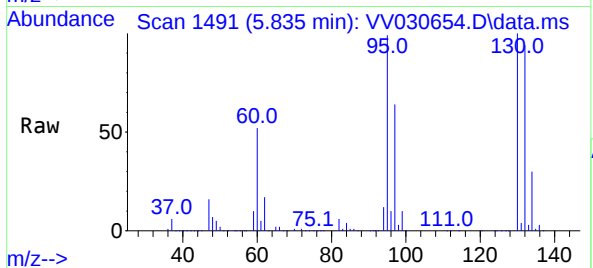




#37
1,2-Dichloropropane
Concen: 1.056 ug/L
RT: 5.835 min Scan# 1491
Delta R.T. -0.264 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

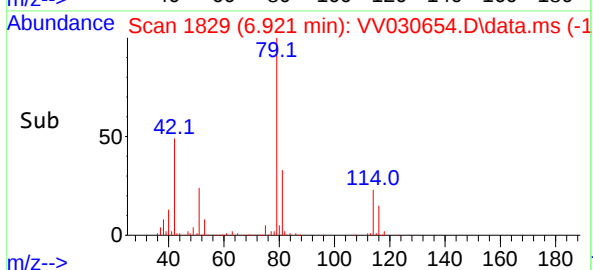
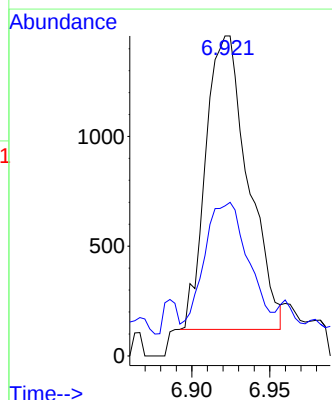
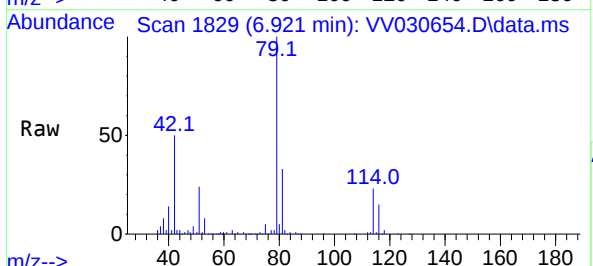
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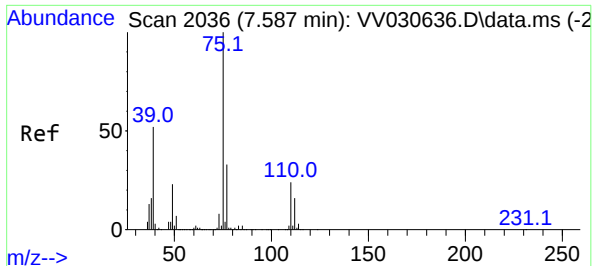
Tgt Ion: 63 Resp: 1913
Ion Ratio Lower Upper
63 100
112 4.8 3.8 5.8



#39
cis-1,3-Dichloropropene
Concen: 0.929 ug/L
RT: 6.921 min Scan# 1829
Delta R.T. -0.038 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

Tgt Ion: 75 Resp: 2527
Ion Ratio Lower Upper
75 100
77 46.9 22.0 40.8#

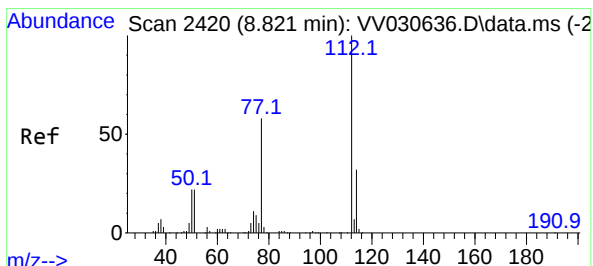
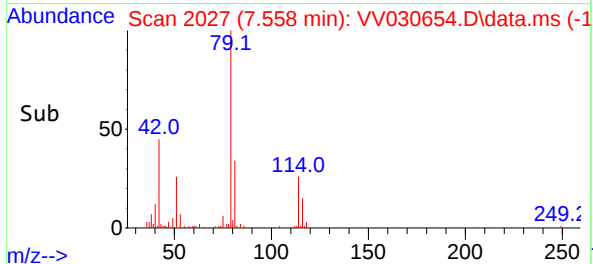
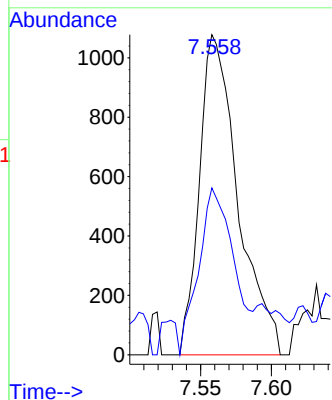
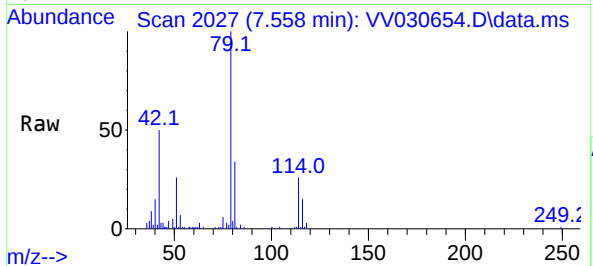




#44
trans-1,3-Dichloropropene
Concen: 0.764 ug/L
RT: 7.558 min Scan# 2036
Delta R.T. -0.029 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

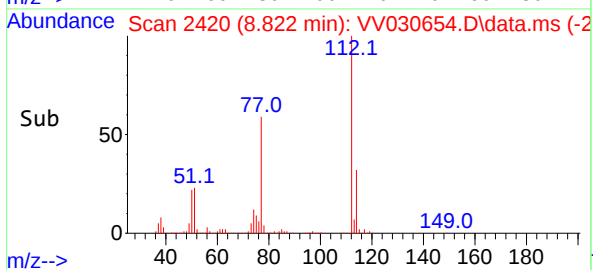
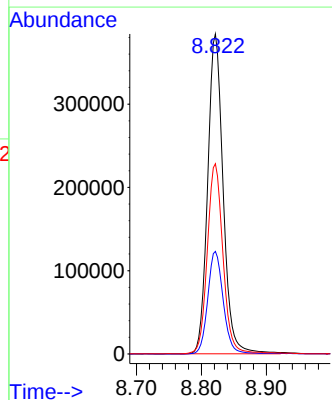
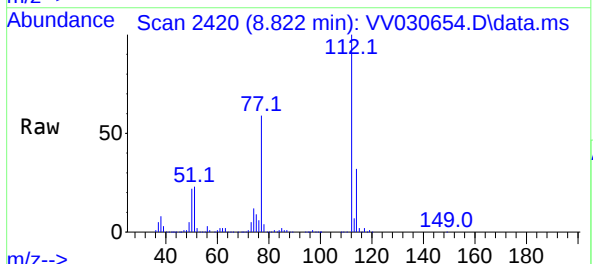
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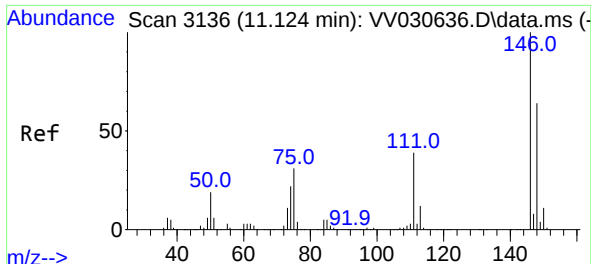
Tgt Ion: 75 Resp: 2040
Ion Ratio Lower Upper
75 100
77 52.1 22.1 41.1#



#51
Chlorobenzene
Concen: 133.757 ug/L
RT: 8.822 min Scan# 2420
Delta R.T. 0.000 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

Tgt Ion: 112 Resp: 638607
Ion Ratio Lower Upper
112 100
114 32.1 22.4 41.6
77 59.4 47.4 71.0

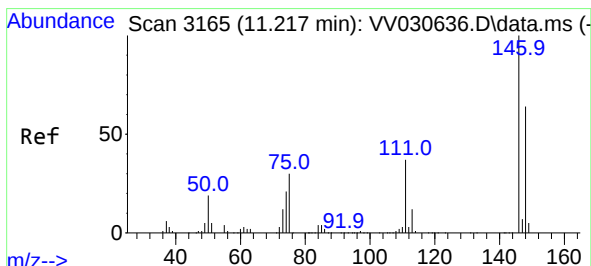
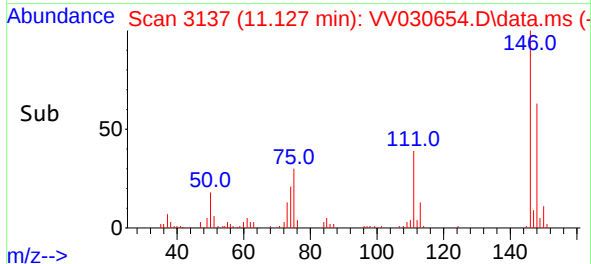
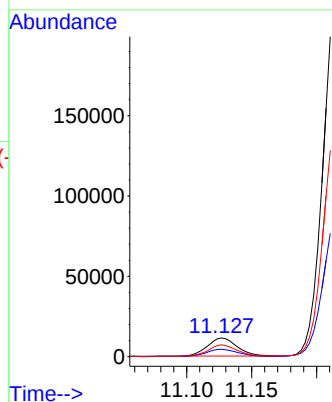
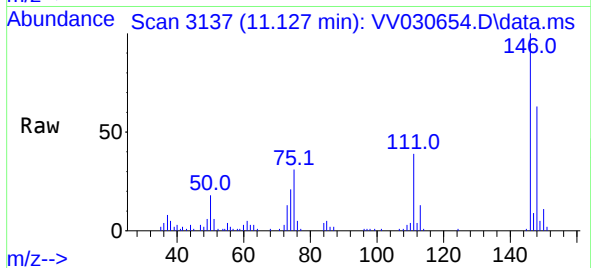




#64
1,3-Dichlorobenzene
Concen: 5.528 ug/L
RT: 11.127 min Scan# 3136
Delta R.T. 0.003 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

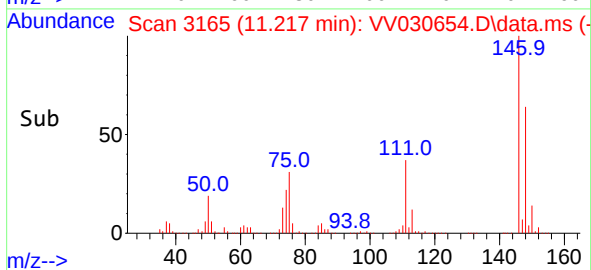
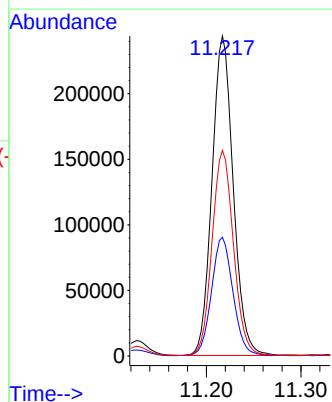
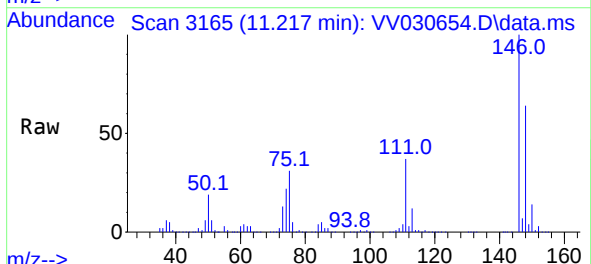
Instrument :
MSVOA_V
ClientSampleId :
C0AQ3

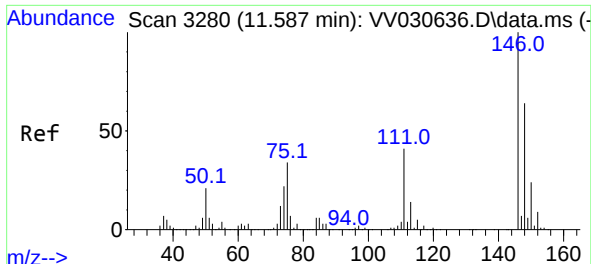
Tgt Ion:146 Resp: 17911
Ion Ratio Lower Upper
146 100
111 39.2 27.0 50.2
148 62.7 44.8 83.2



#65
1,4-Dichlorobenzene
Concen: 111.373 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

Tgt Ion:146 Resp: 380485
Ion Ratio Lower Upper
146 100
111 37.1 26.5 49.1
148 64.2 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 87.196 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

Instrument :

MSVOA_V

ClientSampleId :

C0AQ3

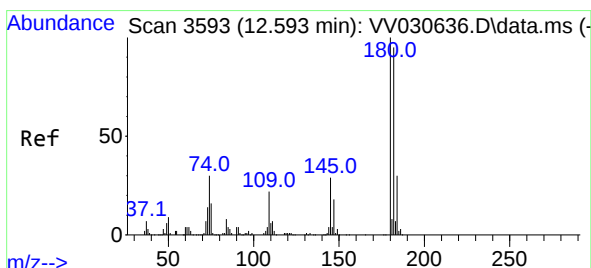
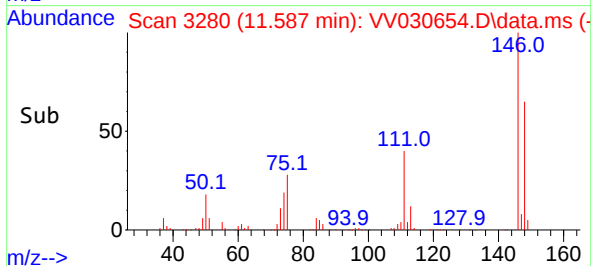
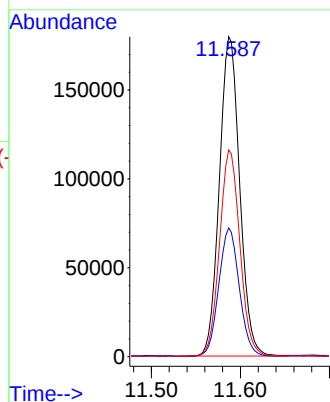
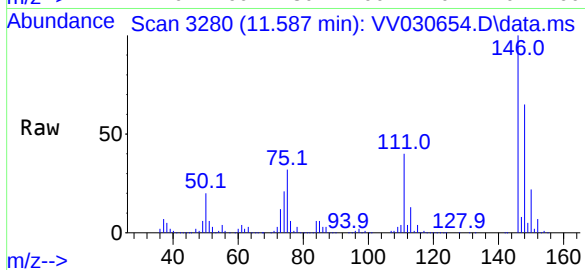
Tgt Ion:146 Resp: 284990

Ion Ratio Lower Upper

146 100

111 40.2 32.0 48.0

148 64.6 50.6 76.0



#69

1,3,5-Trichlorobenzene

Concen: 12.421 ug/L

RT: 13.207 min Scan# 3784

Delta R.T. 0.614 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

Tgt Ion:180 Resp: 30398

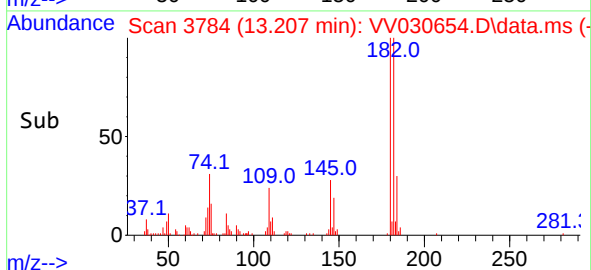
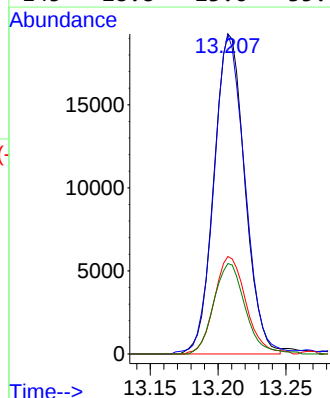
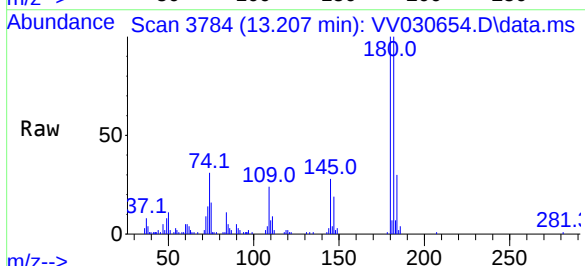
Ion Ratio Lower Upper

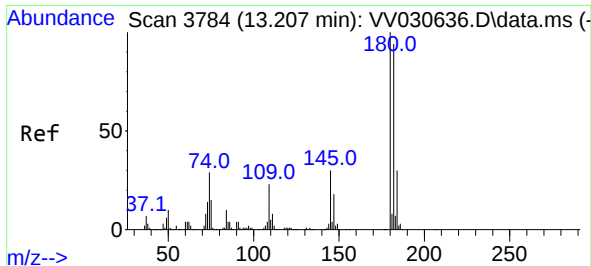
180 100

182 100.3 76.4 114.6

184 31.4 24.1 36.1

145 28.8 23.6 35.4

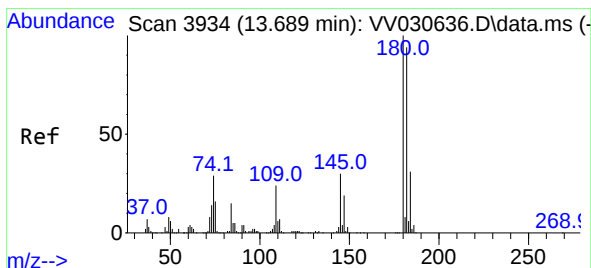
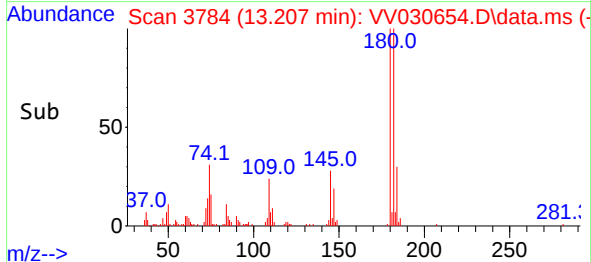
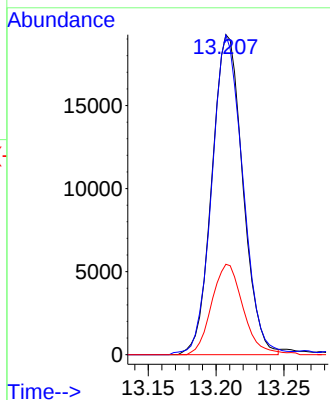
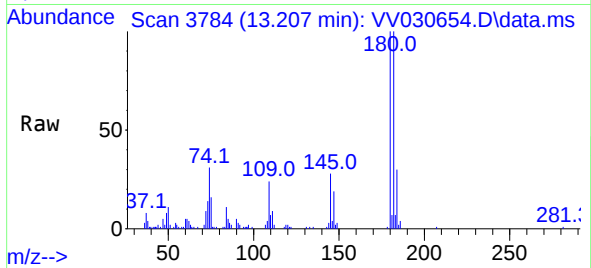




#70
1,2,4-trichlorobenzene
Concen: 14.629 ug/L
RT: 13.207 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

Instrument :
MSVOA_V
ClientSampleId :
C0AQ3

Tgt Ion:180	Resp:	30398
Ion Ratio	Lower	Upper
180	100	
182	100.3	75.9 113.9
145	28.8	23.4 35.2



#72
1,2,3-Trichlorobenzene
Concen: 4.601 ug/L
RT: 13.689 min Scan# 3934
Delta R.T. 0.000 min
Lab File: VV030654.D
Acq: 19 Apr 2023 06:14

Tgt Ion:180	Resp:	9480
Ion Ratio	Lower	Upper
180	100	
182	102.5	76.2 114.4
145	35.2	25.1 37.7

