

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031723\
 Data File : VW030235.D
 Acq On : 17 Mar 2023 15:00
 Operator : SY/MD
 Sample : 01996-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 17 22:58:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 17 22:49:08 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	123879	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	111197	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	56219	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	34946	4.360	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	87.200%	
7) Chloroethane-d5	1.536	69	32417	4.308	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	86.200%	
11) 1,1-Dichloroethene-d2	2.073	63	167203	10.146	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	203.000%#	
20) 2-Butanone-d5	3.806	46	85654	57.959	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	115.920%	
24) Chloroform-d	4.259	84	76501	4.672	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	93.400%	
26) 1,2-Dichloroethane-d4	4.950	65	37416	5.598	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	112.000%	
32) Benzene-d6	4.966	84	134673	4.501	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	90.000%	
36) 1,2-Dichloropropane-d6	5.995	67	42432	4.714	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	94.200%	
41) Toluene-d8	7.249	98	117845	4.155	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	83.200%	
43) trans-1,3-Dichloroprop...	7.561	79	14984	4.866	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	97.400%	
46) 2-Hexanone-d5	8.030	63	63889	50.145	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	100.280%	
56) 1,1,2,2-Tetrachloroeth...	10.162	84	27855	4.350	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	87.000%	
66) 1,2-Dichlorobenzene-d4	11.571	152	43010	4.522	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	90.400%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	2955	0.186	ug/L	87
6) Bromomethane	1.497	94	255	0.135	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	1580	0.168	ug/L #	60
12) 1,1-Dichloroethene	2.076	96	196849	23.678	ug/L #	73
13) Acetone	2.143	43	1844	1.688	ug/L	78
18) trans-1,2-Dichloroethene	2.703	96	1661	0.210	ug/L	89
19) 1,1-Dichloroethane	3.118	63	17471	1.186	ug/L	99
22) cis-1,2-Dichloroethene	3.822	96	269878	30.874	ug/L	89
25) Chloroform	4.285	83	52147	3.403	ug/L	95
29) 1,1,1-Trichloroethane	4.519	97	900312	68.923	ug/L	97
31) Carbon tetrachloride	4.741	117	10468	0.892	ug/L	99
34) Trichloroethene	5.838	95	622014	73.096	ug/L	97
35) Methylcyclohexane	5.995	83	11156	0.866	ug/L #	20
37) 1,2-Dichloropropane	5.995	63	5476	0.709	ug/L #	86
39) cis-1,3-Dichloropropene	6.918	75	1303	0.115	ug/L	90
45) 1,1,2-Trichloroethane	7.924	97	117077	21.178	ug/L #	1
47) Tetrachloroethene	7.928	164	11241586	1539.035	ug/L	91
49) Dibromochloromethane	7.928	129	10931034	1689.768	ug/L #	10
61) 1,2,3-Trichloropropane	11.127	75	1223	0.325	ug/L #	61

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QLast Update : Fri Mar 17 22:49:08 2023
Response via : Initial Calibration

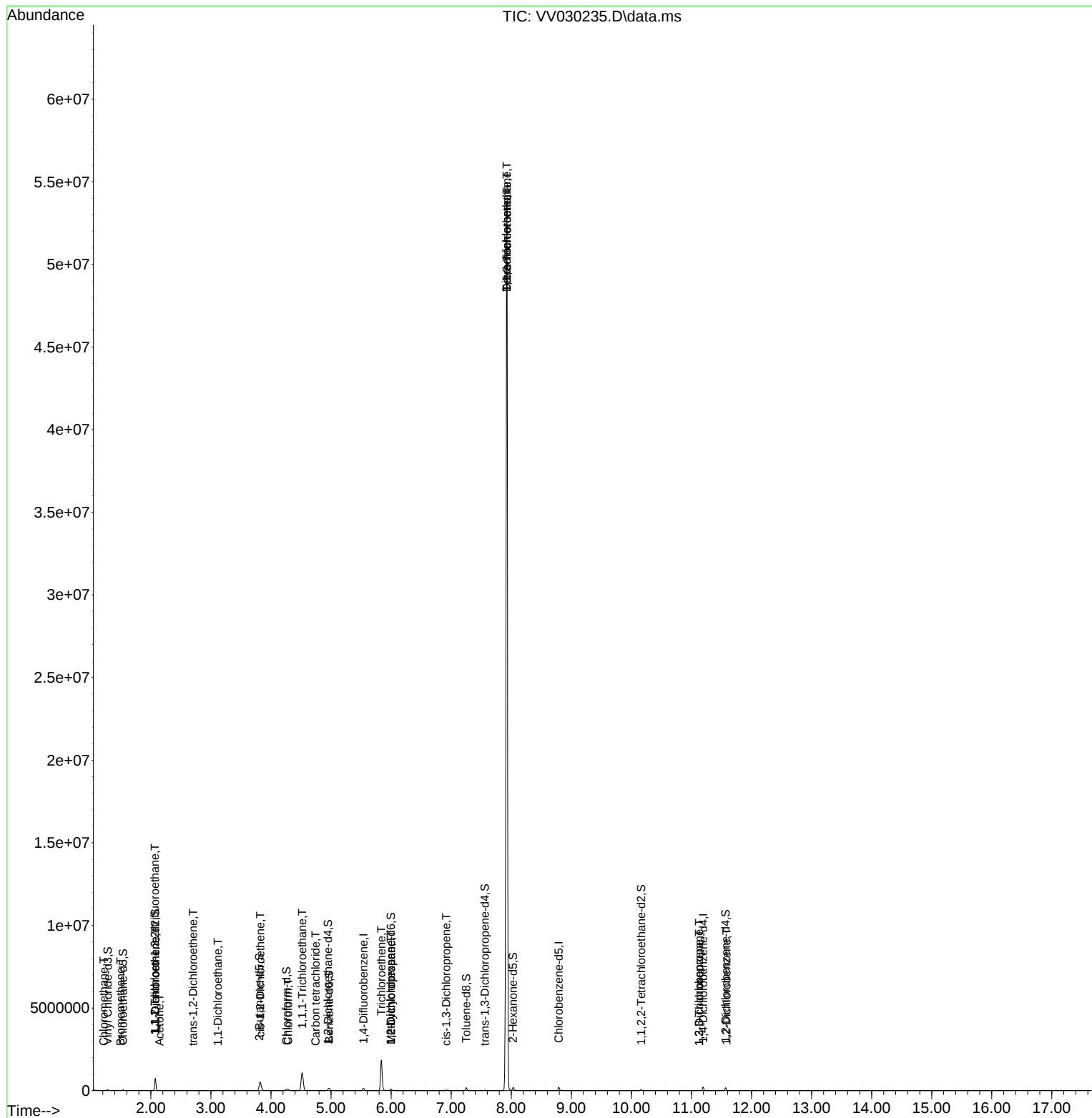
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.130	146	3814	0.226	ug/L	98
67) 1,2-Dichlorobenzene	11.583	146	1588	0.107	ug/L #	90

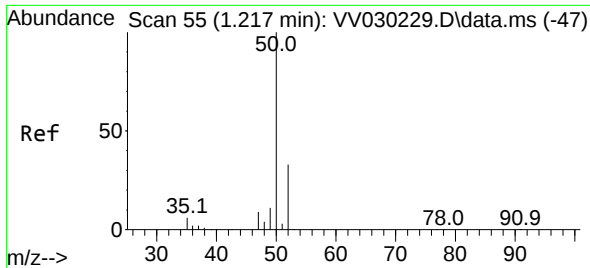
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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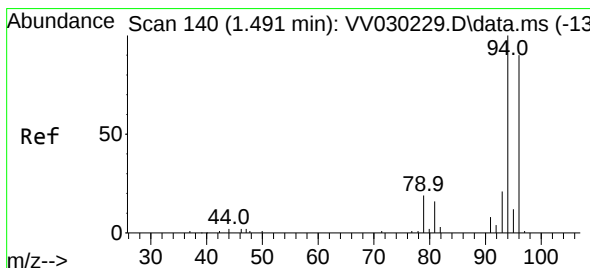
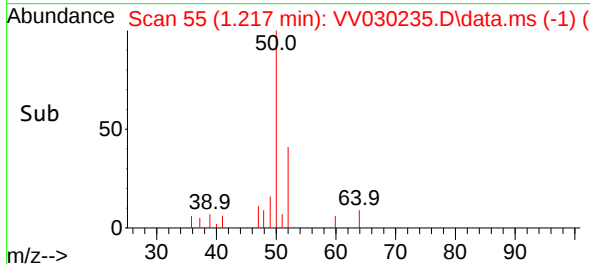
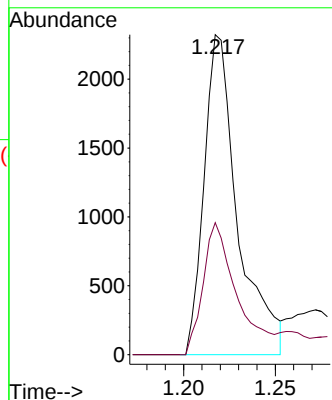
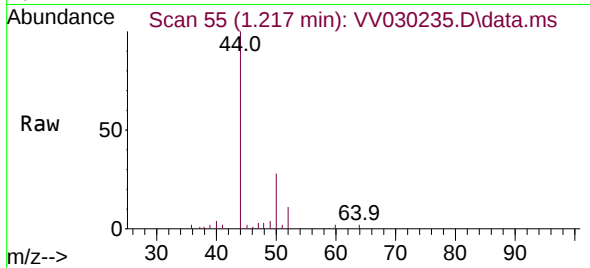




#3
Chloromethane
Concen: 0.186 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.000 min
Lab File: VV030235.D
Acq: 17 Mar 2023 15:00

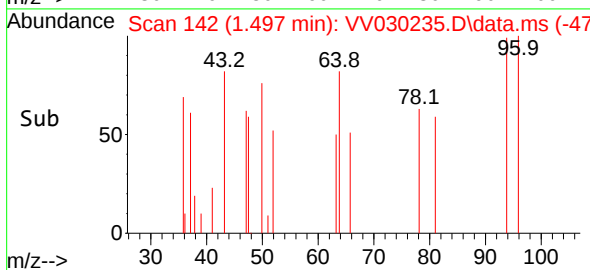
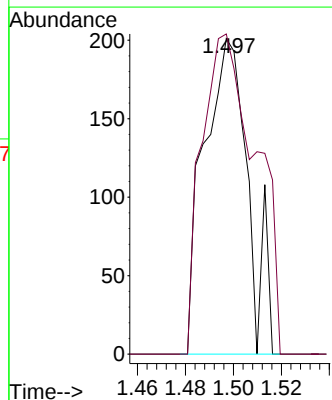
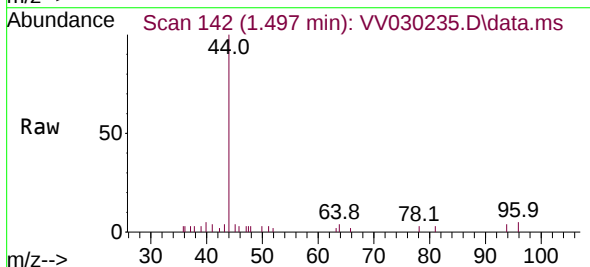
Instrument :
MSVOA_V
ClientSampleId :

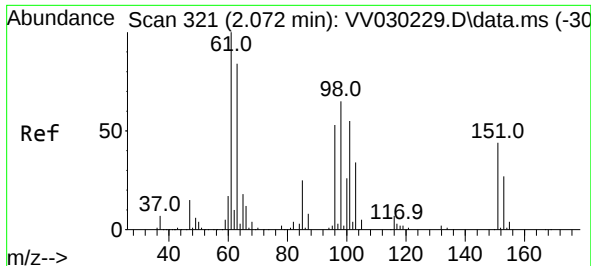
Tgt Ion: 50 Resp: 2955
Ion Ratio Lower Upper
50 100
52 41.2 23.6 43.8



#6
Bromomethane
Concen: 0.135 ug/L
RT: 1.497 min Scan# 142
Delta R.T. 0.006 min
Lab File: VV030235.D
Acq: 17 Mar 2023 15:00

Tgt Ion: 94 Resp: 255
Ion Ratio Lower Upper
94 100
96 101.5 68.4 127.0





#10

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

Concen: 0.168 ug/L

RT: 2.069 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

Instrument :

MSVOA_V

ClientSampleId :

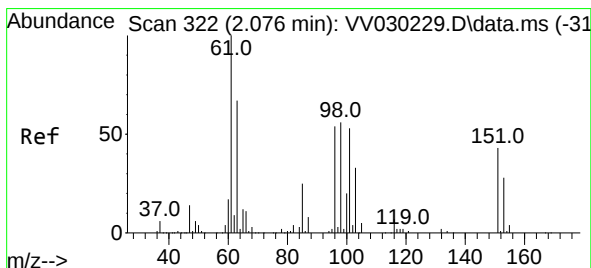
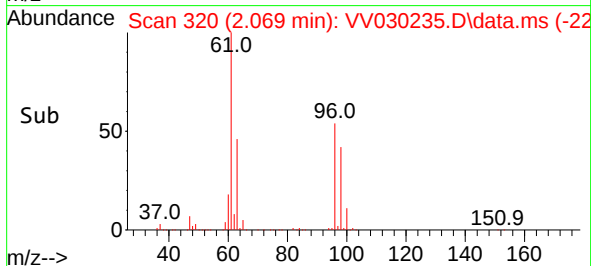
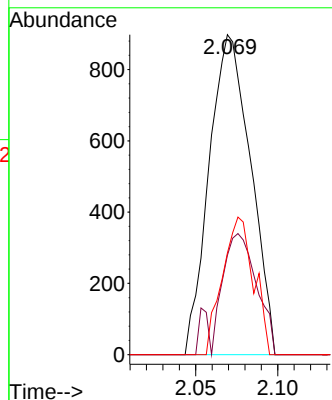
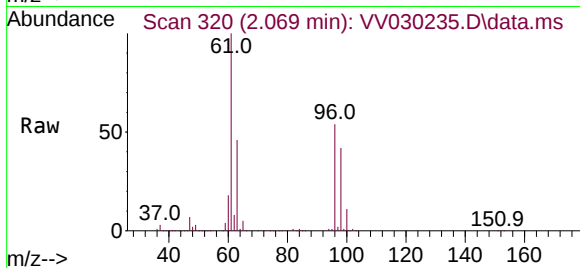
Tgt Ion:101 Resp: 1580

Ion Ratio Lower Upper

101 100

85 30.9 33.5 50.3#

151 32.3 61.6 92.4#



#12

1,1-Dichloroethene

Concen: 23.678 ug/L

RT: 2.076 min Scan# 322

Delta R.T. 0.000 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

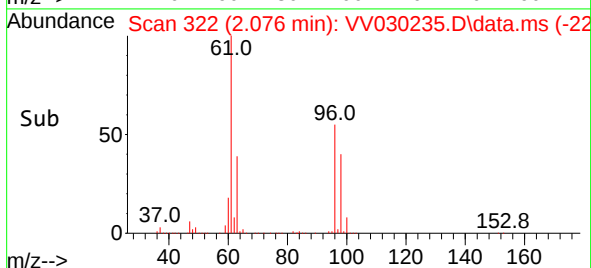
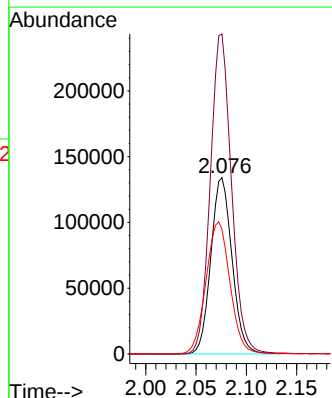
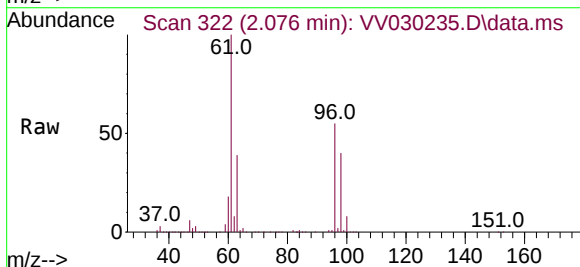
Tgt Ion: 96 Resp: 196849

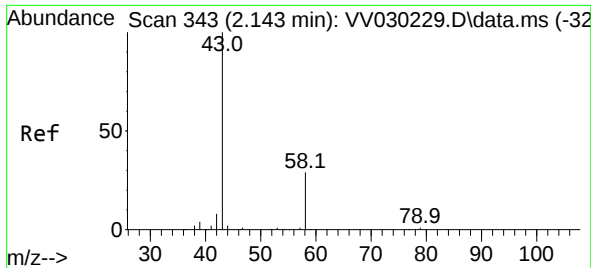
Ion Ratio Lower Upper

96 100

61 181.4 115.6 214.6

63 70.5 85.6 159.0#





#13

Acetone

Concen: 1.688 ug/L

RT: 2.143 min Scan# 343

Delta R.T. 0.000 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

Instrument :

MSVOA_V

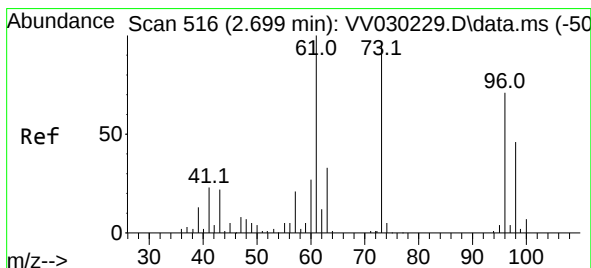
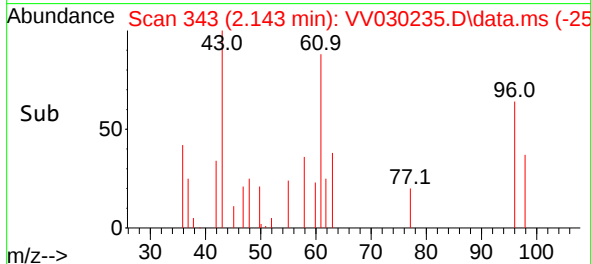
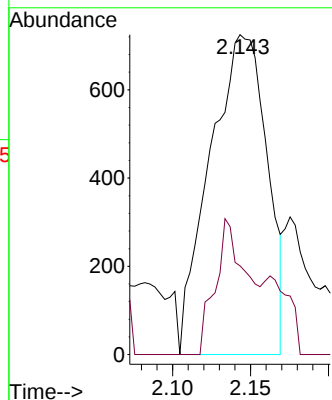
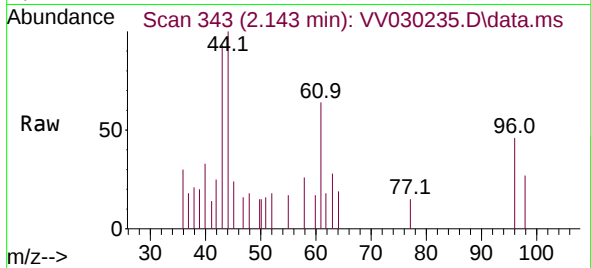
ClientSampleId :

Tgt Ion: 43 Resp: 1844

Ion Ratio Lower Upper

43 100

58 23.6 0.0 29.4



#18

trans-1,2-Dichloroethene

Concen: 0.210 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.003 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

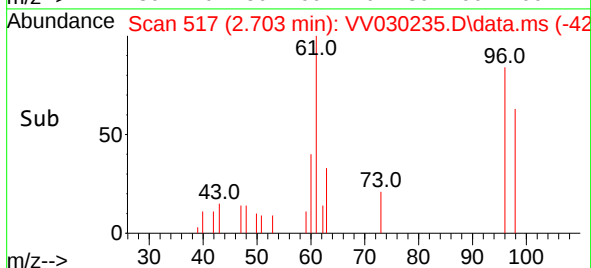
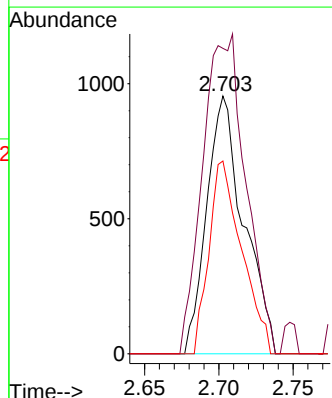
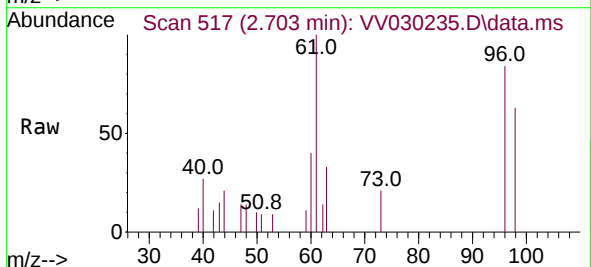
Tgt Ion: 96 Resp: 1661

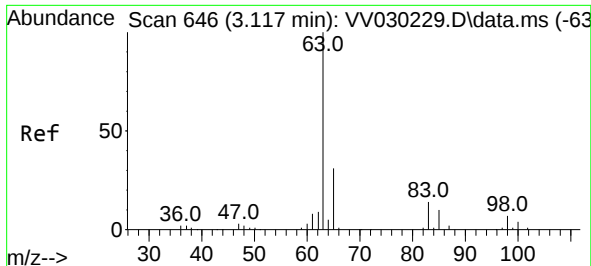
Ion Ratio Lower Upper

96 100

61 118.6 91.0 169.0

98 74.8 45.2 84.0





#19

1,1-Dichloroethane

Concen: 1.186 ug/L

RT: 3.118 min Scan# 646

Delta R.T. 0.000 min

Lab File: VV030235.D

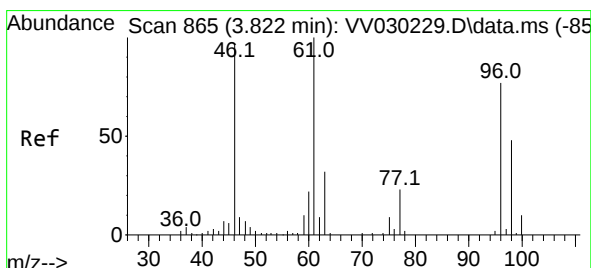
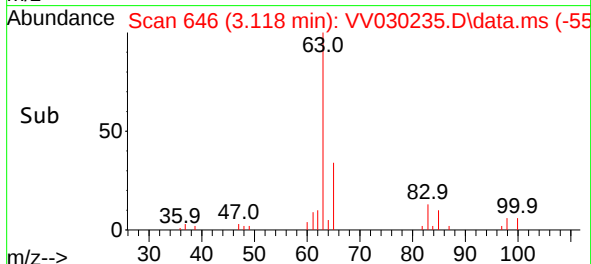
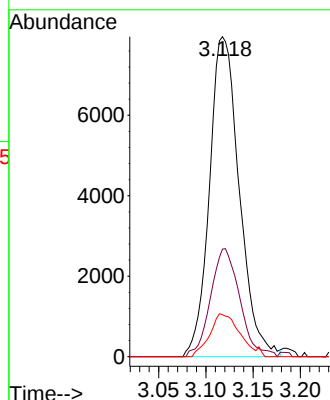
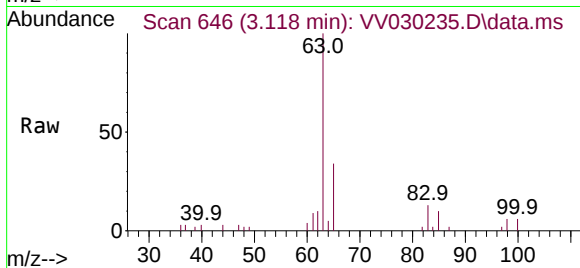
Acq: 17 Mar 2023 15:00

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 63	Resp: 17471
Ion Ratio	Lower Upper
63	100
65	33.6 23.0 42.8
83	13.2 9.6 17.8



#22

cis-1,2-Dichloroethene

Concen: 30.874 ug/L

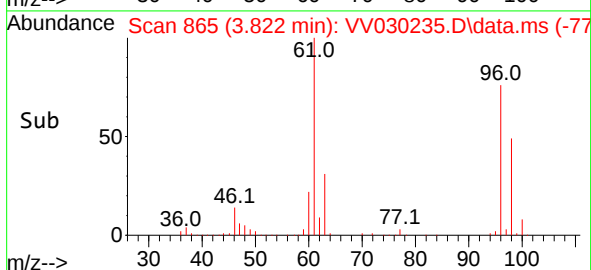
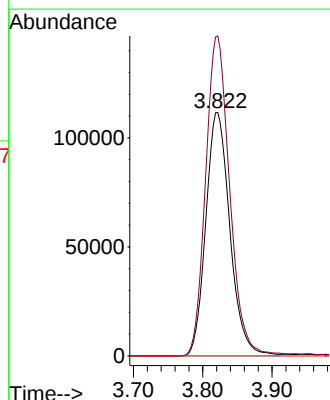
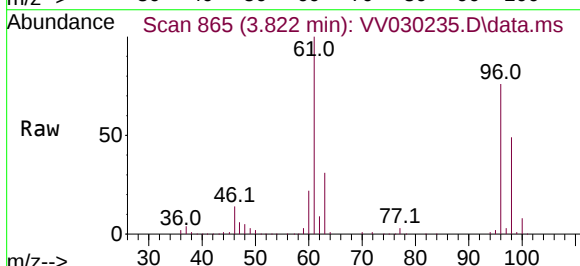
RT: 3.822 min Scan# 865

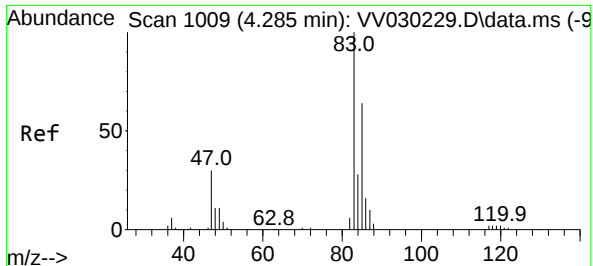
Delta R.T. 0.000 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

Tgt Ion: 96	Resp: 269878
Ion Ratio	Lower Upper
96	100
61	131.4 83.4 154.8
68	0.0 0.0 0.0





#25

Chloroform

Concen: 3.403 ug/L

RT: 4.285 min Scan# 1009

Delta R.T. 0.000 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

Instrument :

MSVOA_V

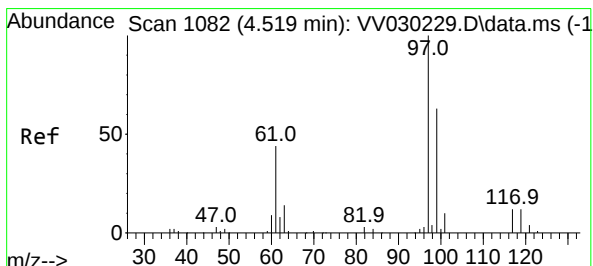
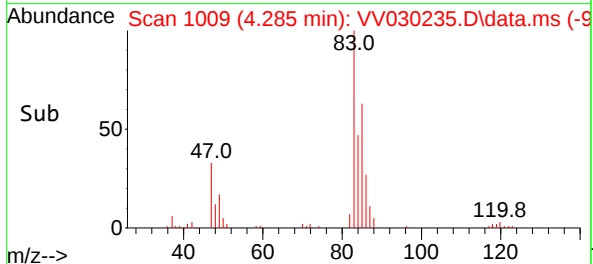
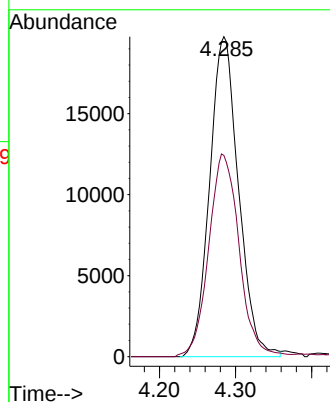
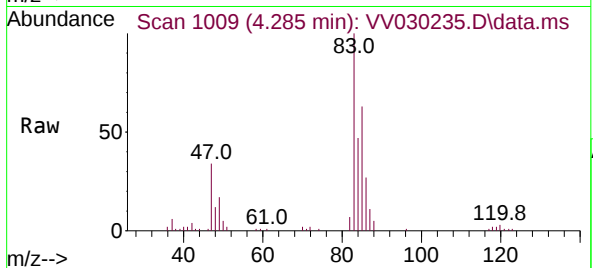
ClientSampleId :

Tgt Ion: 83 Resp: 52147

Ion Ratio Lower Upper

83 100

85 62.9 46.5 86.5



#29

1,1,1-Trichloroethane

Concen: 68.923 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. 0.000 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

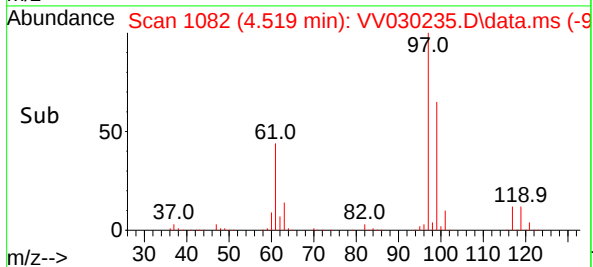
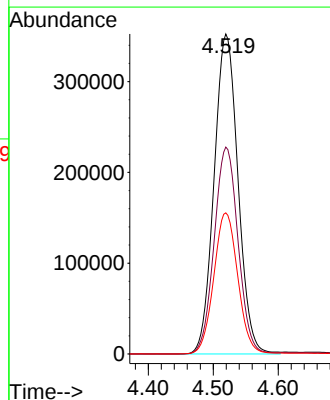
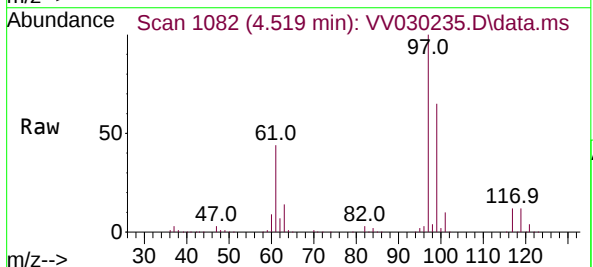
Tgt Ion: 97 Resp: 900312

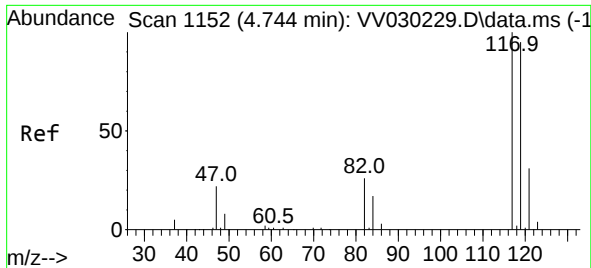
Ion Ratio Lower Upper

97 100

99 64.6 51.3 76.9

61 44.4 31.5 47.3

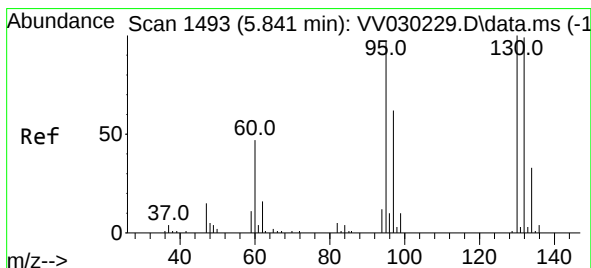
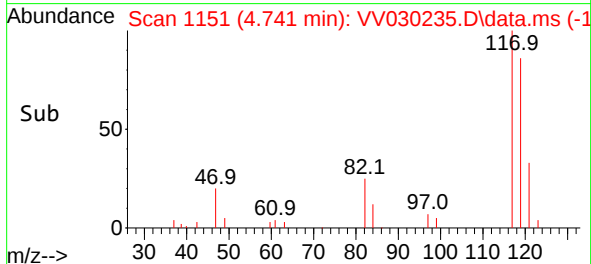
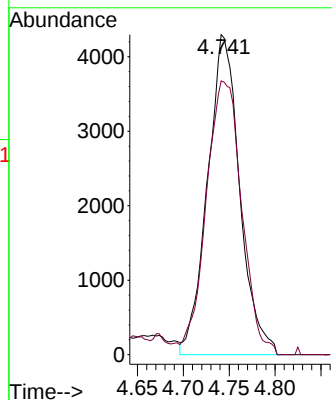
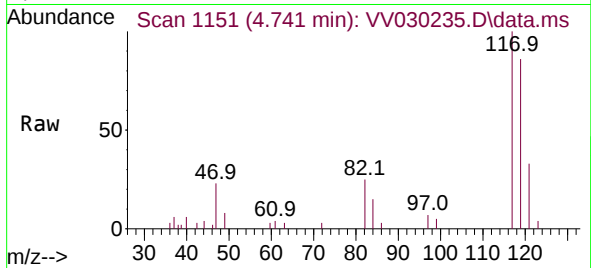




#31
Carbon tetrachloride
Concen: 0.892 ug/L
RT: 4.741 min Scan# 1151
Delta R.T. -0.003 min
Lab File: VV030235.D
Acq: 17 Mar 2023 15:00

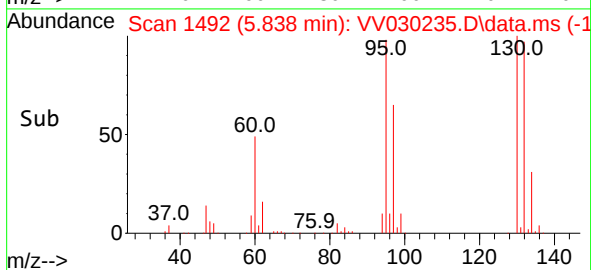
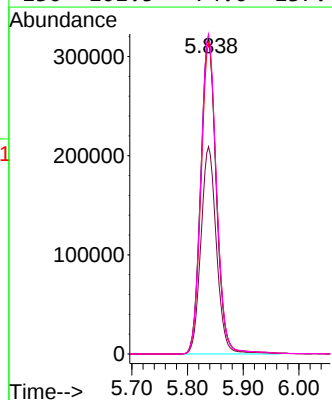
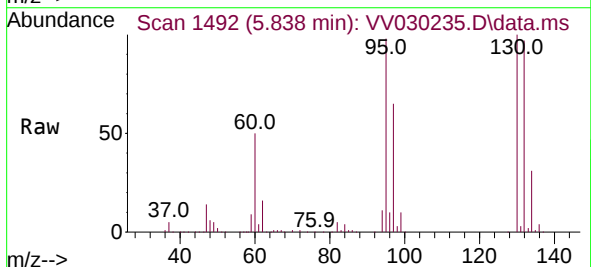
Instrument :
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ClientSampleId :

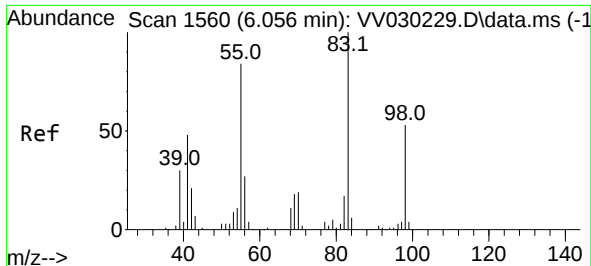
Tgt Ion:117 Resp: 10468
Ion Ratio Lower Upper
117 100
119 94.4 76.1 114.1



#34
Trichloroethene
Concen: 73.096 ug/L
RT: 5.838 min Scan# 1492
Delta R.T. -0.003 min
Lab File: VV030235.D
Acq: 17 Mar 2023 15:00

Tgt Ion: 95 Resp: 622014
Ion Ratio Lower Upper
95 100
97 65.7 46.5 86.5
132 98.5 71.7 133.3
130 101.5 74.0 137.4





#35

Methylcyclohexane

Concen: 0.866 ug/L

RT: 5.995 min Scan# 11

Delta R.T. -0.061 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

Instrument :

MSVOA_V

ClientSampleId :

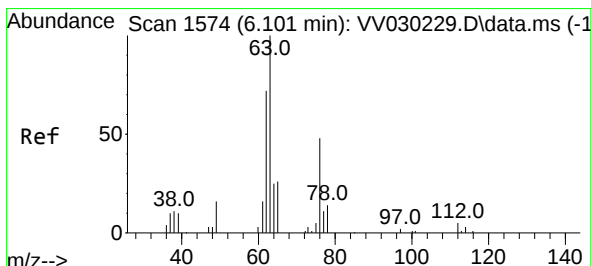
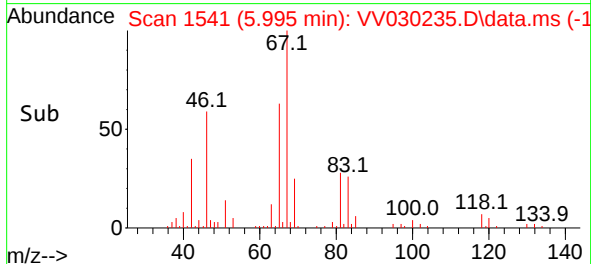
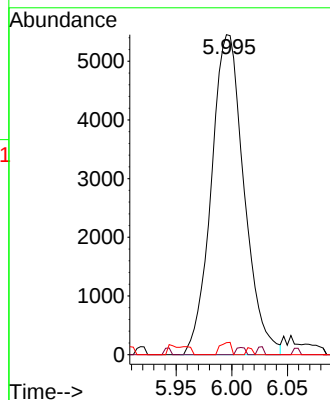
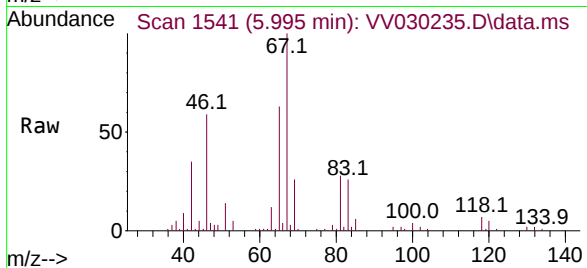
Tgt Ion: 83 Resp: 11156

Ion Ratio Lower Upper

83 100

55 0.6 57.6 86.4#

98 0.0 38.8 58.2#



#37

1,2-Dichloropropane

Concen: 0.709 ug/L

RT: 5.995 min Scan# 1541

Delta R.T. -0.106 min

Lab File: VV030235.D

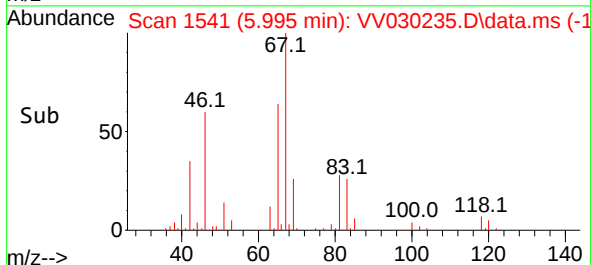
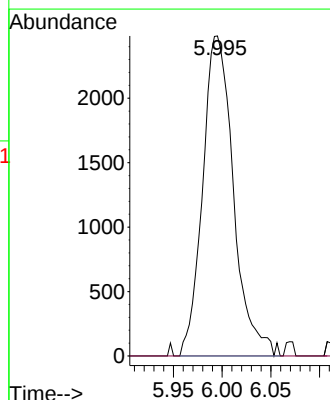
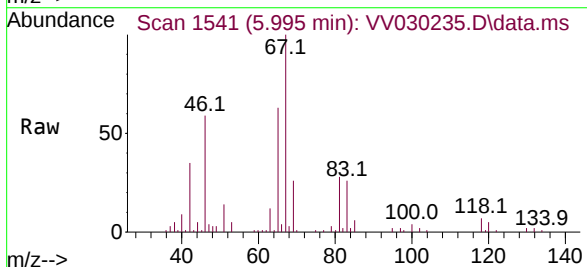
Acq: 17 Mar 2023 15:00

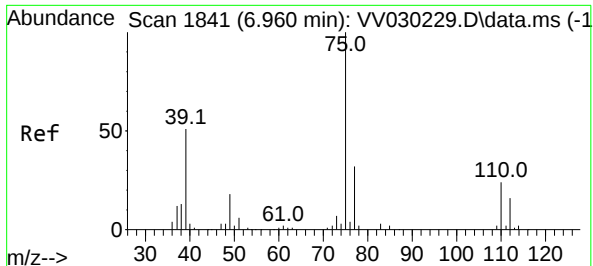
Tgt Ion: 63 Resp: 5476

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.115 ug/L

RT: 6.918 min Scan# 11

Delta R.T. -0.042 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

Instrument :

MSVOA_V

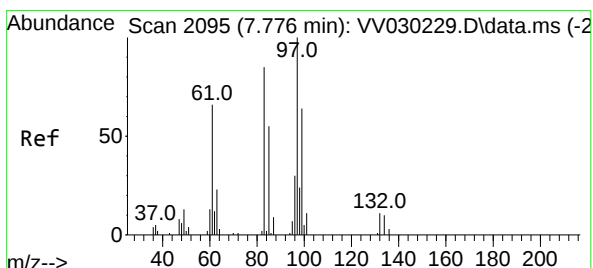
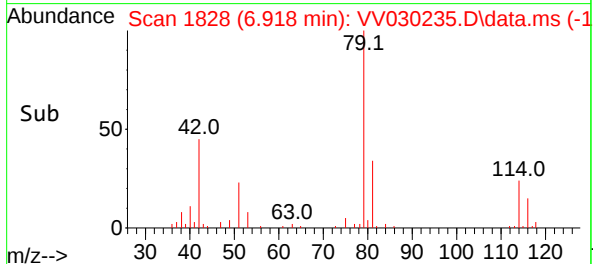
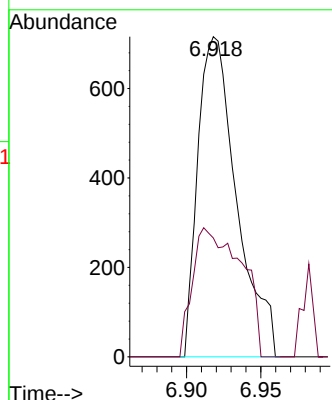
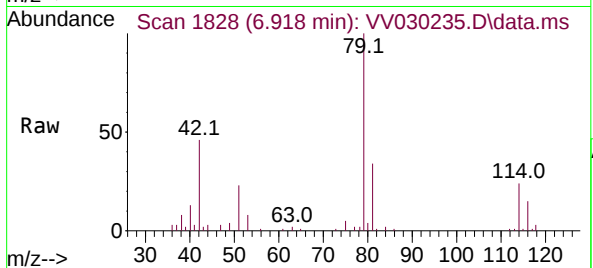
ClientSampleId :

Tgt Ion: 75 Resp: 1303

Ion Ratio Lower Upper

75 100

77 37.2 22.3 41.3



#45

1,1,2-Trichloroethane

Concen: 21.178 ug/L

RT: 7.924 min Scan# 2141

Delta R.T. 0.148 min

Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

Tgt Ion: 97 Resp: 117077

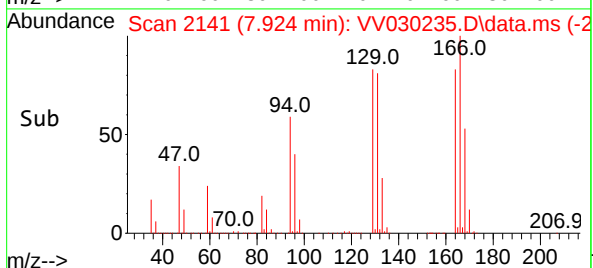
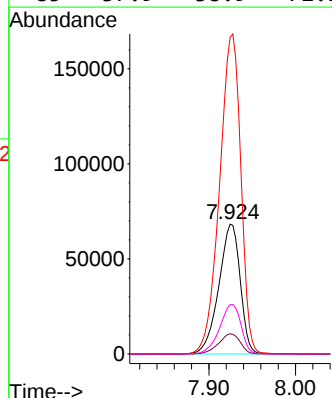
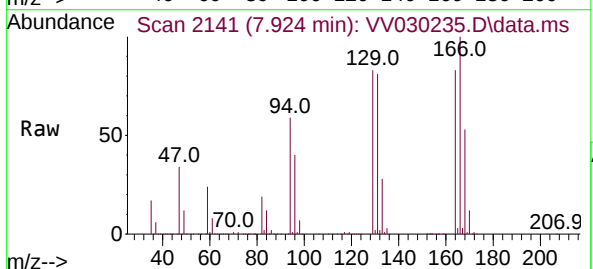
Ion Ratio Lower Upper

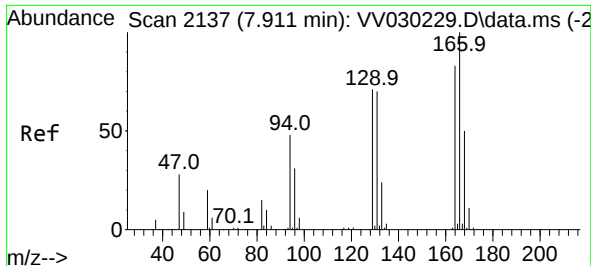
97 100

99 15.6 42.6 79.2#

83 243.9 57.7 107.3#

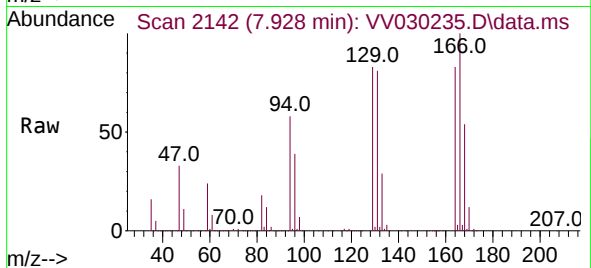
85 37.9 38.9 72.2#



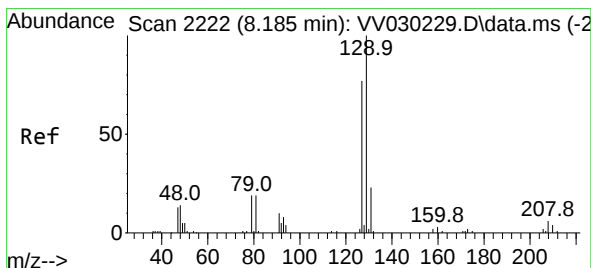
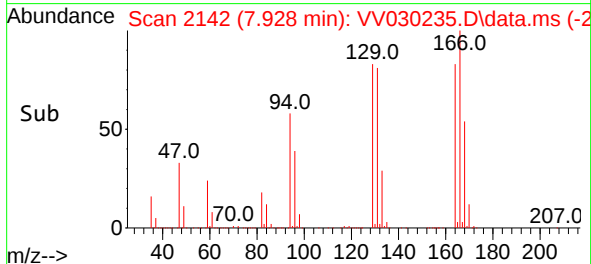
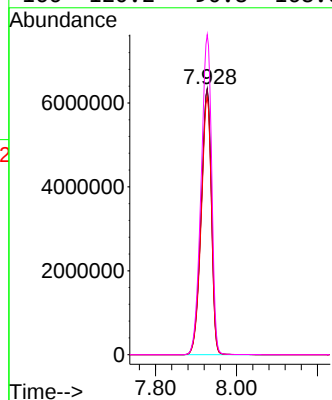


#47
Tetrachloroethene
Concen: 1539.035 ug/L
RT: 7.928 min Scan# 2142
Delta R.T. 0.016 min
Lab File: VV030235.D
Acq: 17 Mar 2023 15:00

Instrument :
MSVOA_V
ClientSampleId :

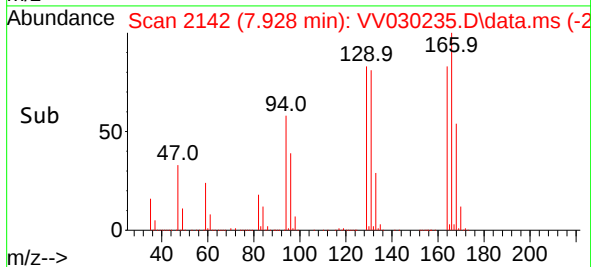
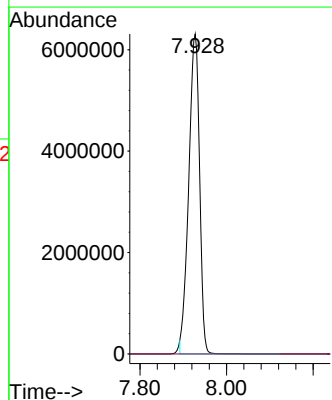
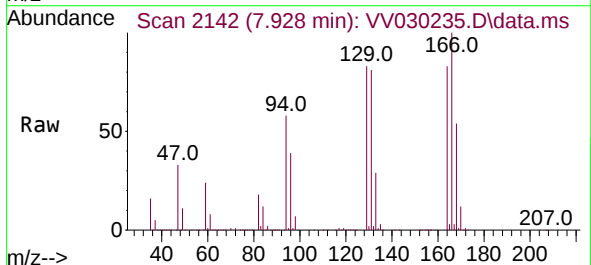


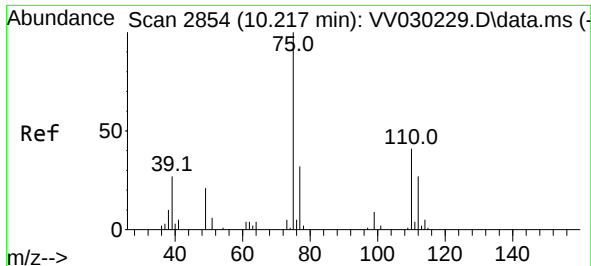
Tgt Ion:164 Resp:11241586
Ion Ratio Lower Upper
164 100
129 99.5 63.6 118.2
131 96.8 61.7 114.7
166 120.2 90.8 168.6



#49
Dibromochloromethane
Concen: 1689.768 ug/L
RT: 7.928 min Scan# 2142
Delta R.T. -0.257 min
Lab File: VV030235.D
Acq: 17 Mar 2023 15:00

Tgt Ion:129 Resp:10931034
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.5#

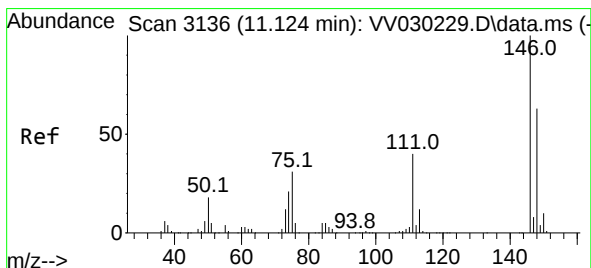
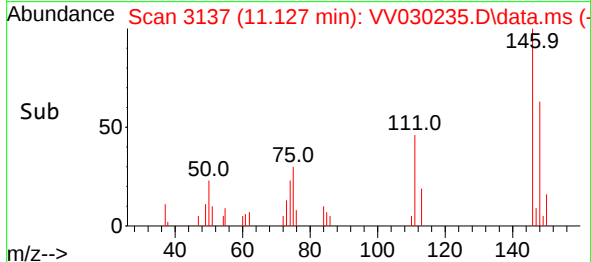
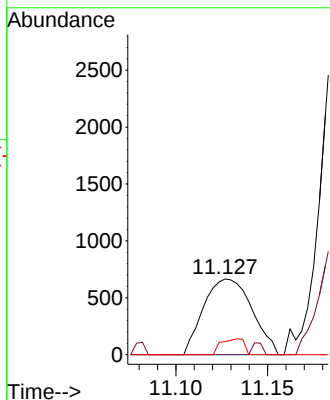
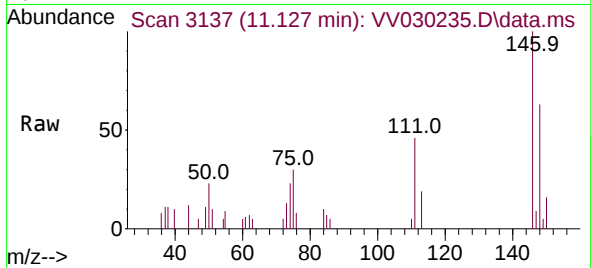




#61
1,2,3-Trichloropropane
Concen: 0.325 ug/L
RT: 11.127 min Scan# 3137
Delta R.T. 0.910 min
Lab File: VV030235.D
Acq: 17 Mar 2023 15:00

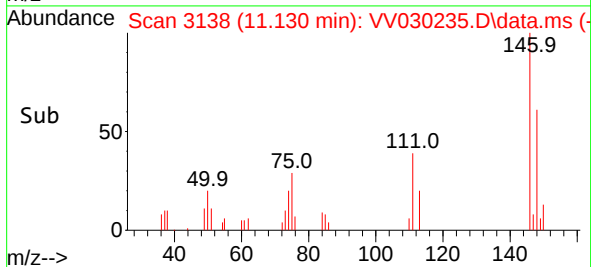
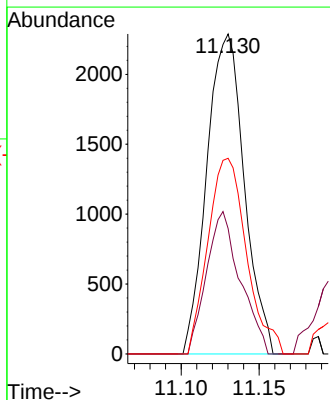
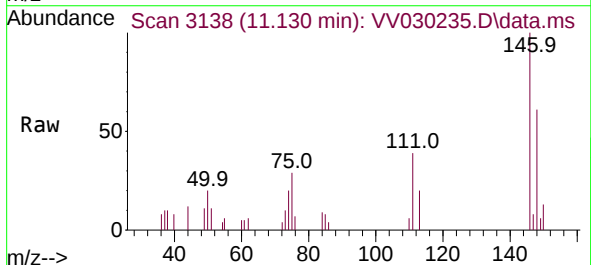
Instrument :
MSVOA_V
ClientSampleId :

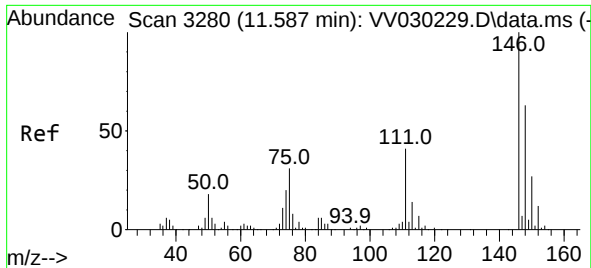
Tgt Ion: 75 Resp: 1223
Ion Ratio Lower Upper
75 100
77 18.0 26.5 39.7#
110 9.9 31.8 47.6#



#64
1,3-Dichlorobenzene
Concen: 0.226 ug/L
RT: 11.130 min Scan# 3138
Delta R.T. 0.006 min
Lab File: VV030235.D
Acq: 17 Mar 2023 15:00

Tgt Ion: 146 Resp: 3814
Ion Ratio Lower Upper
146 100
111 39.2 27.7 51.5
148 61.2 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 0.107 ug/L

RT: 11.583 min Scan# 31

Delta R.T. -0.003 min

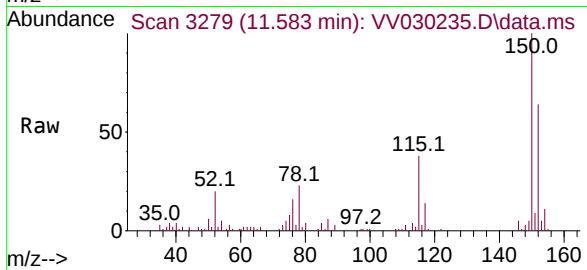
Lab File: VV030235.D

Acq: 17 Mar 2023 15:00

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	146	Resp:	1588
Ion	Ratio	Lower	Upper
146	100		
111	58.6	33.5	50.3#
148	64.0	51.3	76.9

