

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV031723\
 Data File : VV030243.D
 Acq On : 17 Mar 2023 18:18
 Operator : SY/MD
 Sample : 01996-10
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 17 23:00:57 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	5.545	114	127513	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.796	117	115344	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	57838	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	32473	3.936	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.800%
7) Chloroethane-d5	1.539	69	29908	3.862	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.200%
11) 1,1-Dichloroethene-d2	2.076	63	768317	45.295	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	905.800%#
20) 2-Butanone-d5	3.812	46	79487	52.253	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.500%
24) Chloroform-d	4.262	84	73037	4.333	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.600%
26) 1,2-Dichloroethane-d4	4.953	65	34721	5.046	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.000%
32) Benzene-d6	4.973	84	125556	4.045	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.000%
36) 1,2-Dichloropropane-d6	5.998	67	39482	4.229	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.600%
41) Toluene-d8	7.255	98	108787	3.698	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.000%
43) trans-1,3-Dichloroprop...	7.564	79	14428	4.517	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.400%
46) 2-Hexanone-d5	8.037	63	62871	47.572	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.140%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	26934	4.055	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.000%
66) 1,2-Dichlorobenzene-d4	11.570	152	40607	4.150	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	35022	2.142	ug/L	99
6) Bromomethane	1.494	94	2007	1.029	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	4170	0.431	ug/L #	39
12) 1,1-Dichloroethene	2.076	96	1228546	143.565	ug/L #	71
16) Methylene chloride	2.455	84	2648	0.253	ug/L	88
19) 1,1-Dichloroethane	3.120	63	24126	1.591	ug/L	99
22) cis-1,2-Dichloroethene	3.825	96	38924	4.326	ug/L	83
25) Chloroform	4.288	83	76170	4.828	ug/L	99
27) 1,2-Dichloroethane	5.063	62	1865	0.226	ug/L #	71
29) 1,1,1-Trichloroethane	4.522	97	198676	14.663	ug/L	97
30) Cyclohexane	4.590	56	1813	0.155	ug/L #	82
31) Carbon tetrachloride	4.747	117	61002	5.009	ug/L	98
33) Benzene	5.024	78	17130	0.544	ug/L	100
34) Trichloroethene	5.844	95	4034254	457.042	ug/L	94
35) Methylcyclohexane	6.001	83	10616	0.795	ug/L #	28
37) 1,2-Dichloropropane	5.998	63	4868	0.607	ug/L #	89
44) trans-1,3-Dichloropropene	7.567	75	878	0.096	ug/L #	49
45) 1,1,2-Trichloroethane	7.937	97	269423	46.984	ug/L #	18
49) Dibromochloromethane	7.943	129	23987294	3574.746	ug/L #	10

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Response via : Initial Calibration

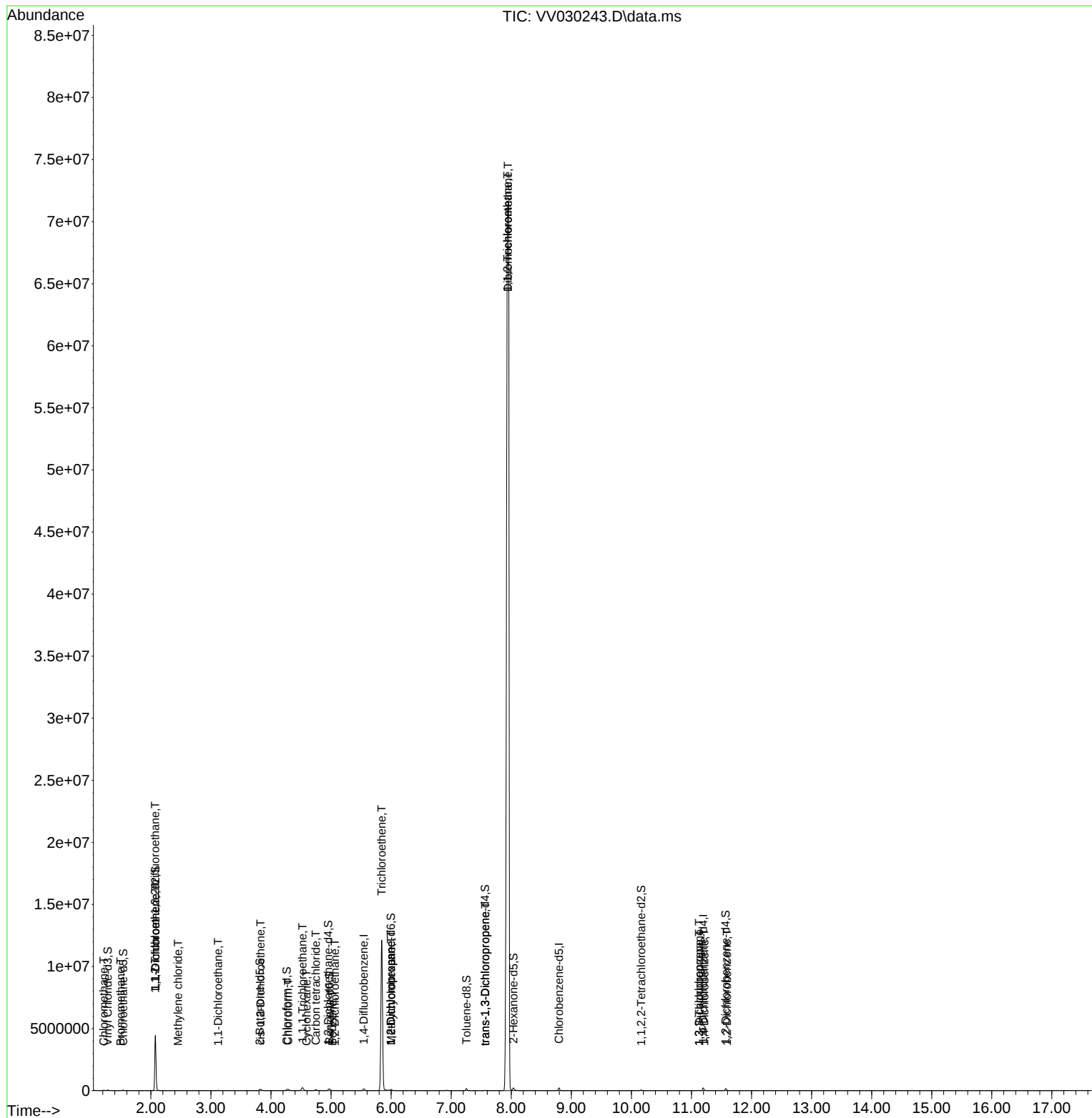
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.127	75	2438	0.630	ug/L #	52
64) 1,3-Dichlorobenzene	11.130	146	7969	0.460	ug/L	95
65) 1,4-Dichlorobenzene	11.217	146	7286	0.417	ug/L	97
67) 1,2-Dichlorobenzene	11.590	146	10005	0.654	ug/L	98

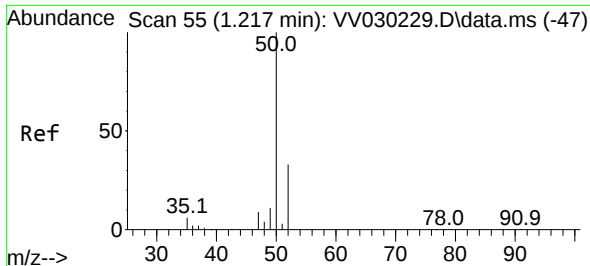
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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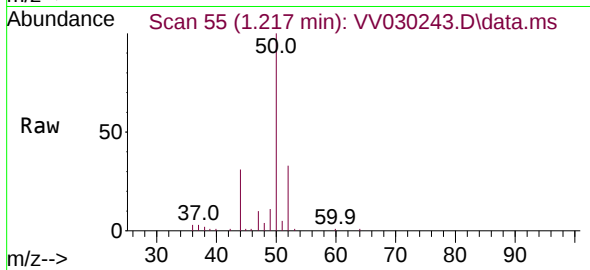
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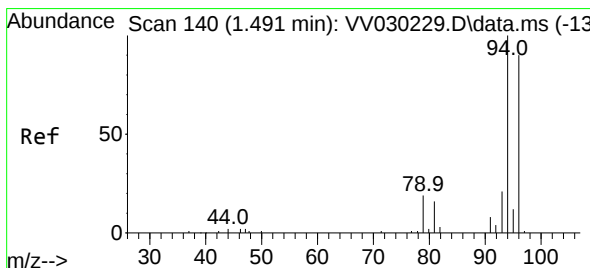
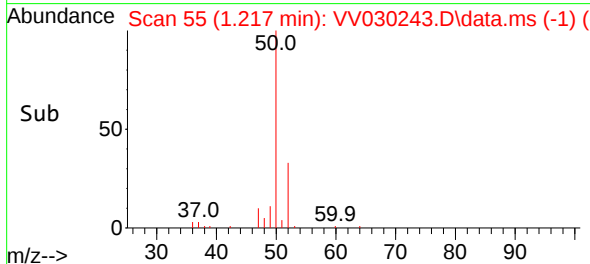
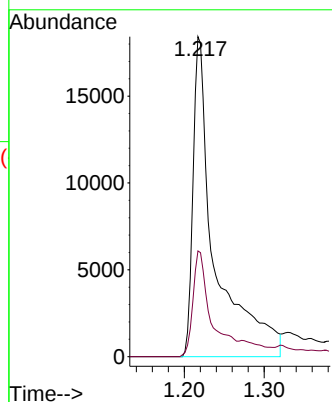


#3
Chloromethane
Concen: 2.142 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

Instrument :
MSVOA_V
ClientSampleId :

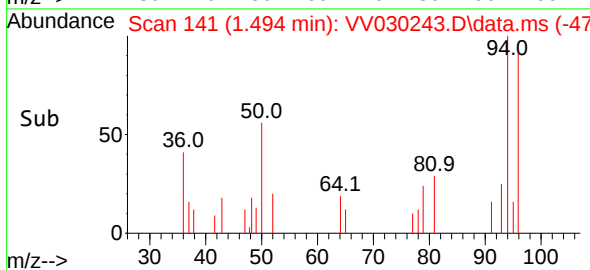
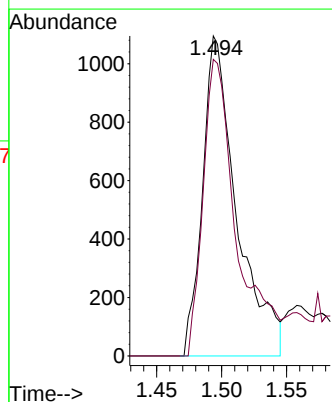
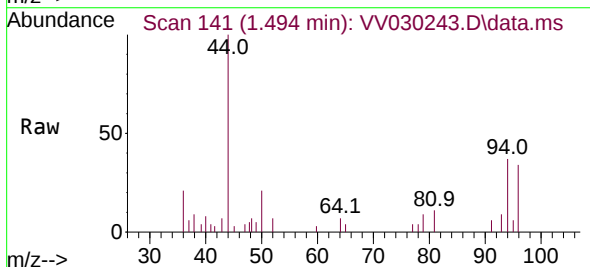


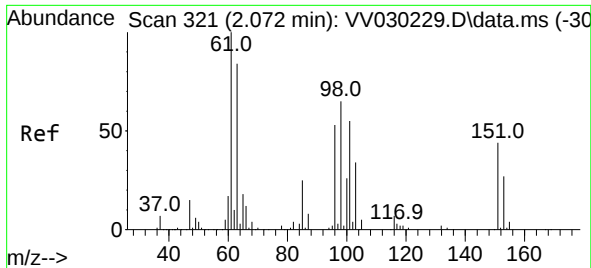
Tgt Ion: 50 Resp: 35022
Ion Ratio Lower Upper
50 100
52 33.0 23.6 43.8



#6
Bromomethane
Concen: 1.029 ug/L
RT: 1.494 min Scan# 141
Delta R.T. 0.003 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

Tgt Ion: 94 Resp: 2007
Ion Ratio Lower Upper
94 100
96 92.7 68.4 127.0

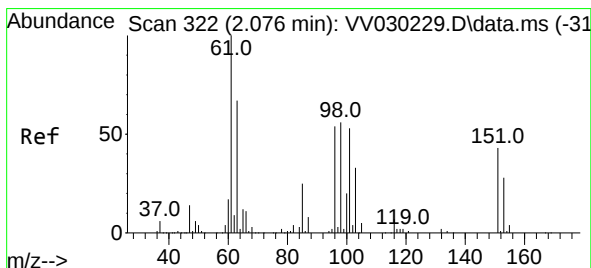
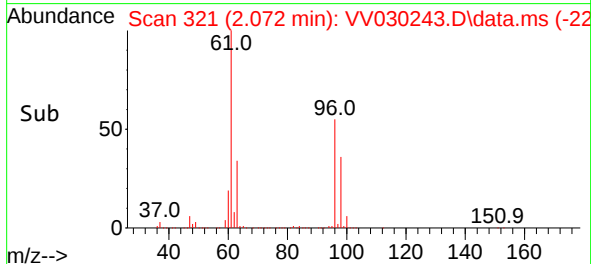
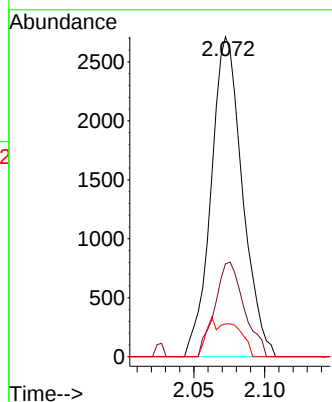
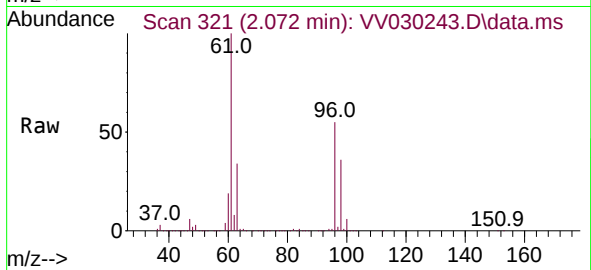




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.431 ug/L
 RT: 2.072 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV030243.D
 Acq: 17 Mar 2023 18:18

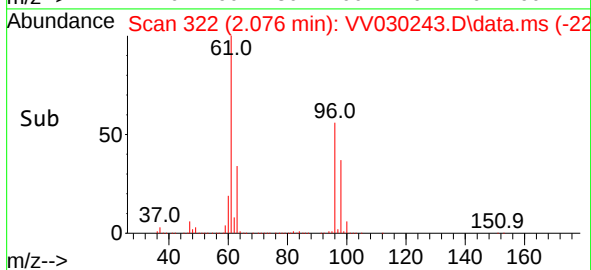
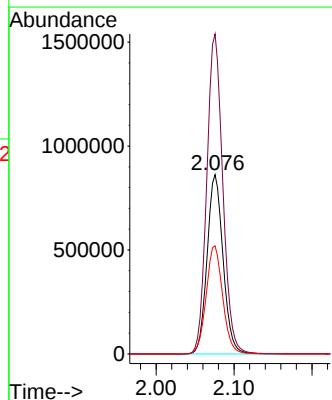
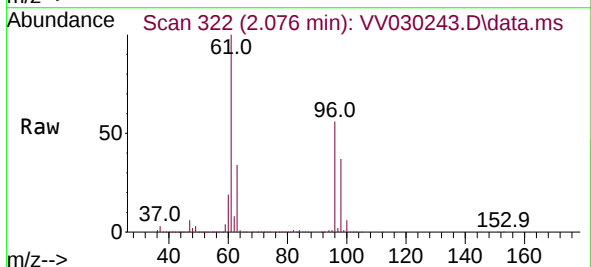
Instrument :
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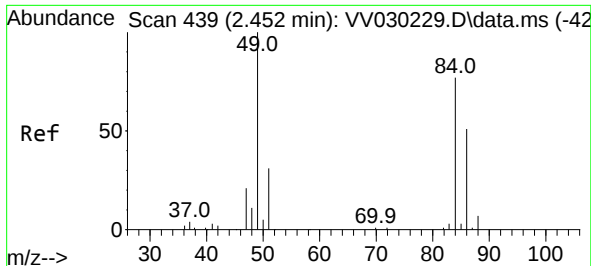
Tgt Ion:101 Resp: 4170
 Ion Ratio Lower Upper
 101 100
 85 27.6 33.5 50.3#
 151 6.3 61.6 92.4#



#12
 1,1-Dichloroethene
 Concen: 143.565 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. -0.000 min
 Lab File: VV030243.D
 Acq: 17 Mar 2023 18:18

Tgt Ion: 96 Resp: 1228546
 Ion Ratio Lower Upper
 96 100
 61 178.4 115.6 214.6
 63 60.3 85.6 159.0#

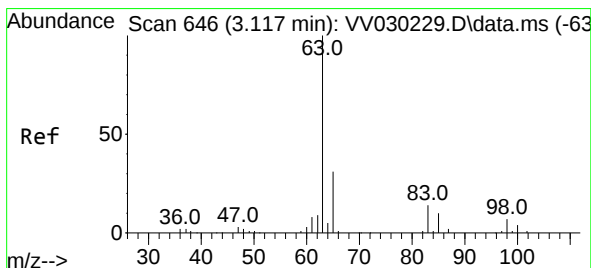
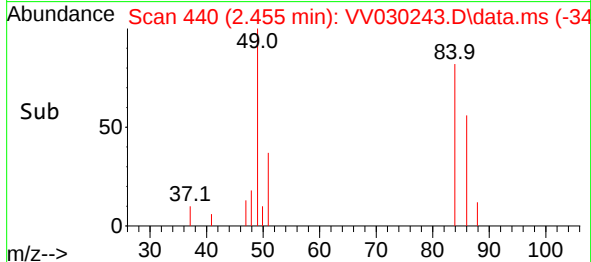
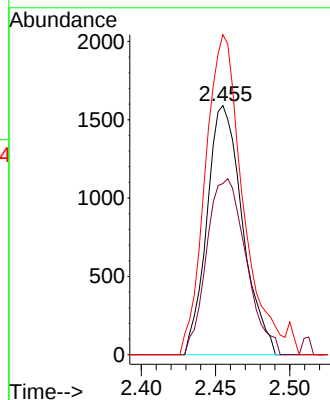
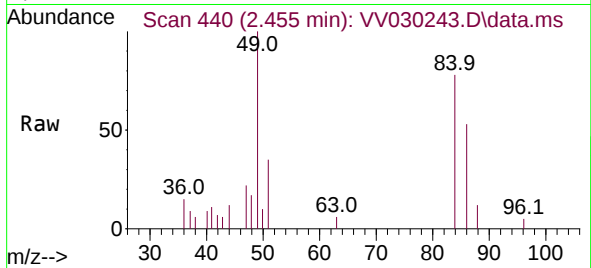




#16
Methylene chloride
Concen: 0.253 ug/L
RT: 2.455 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

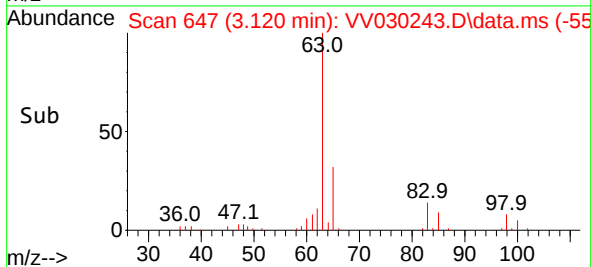
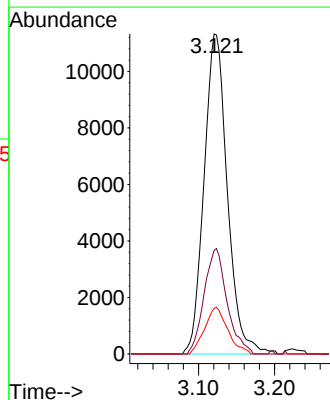
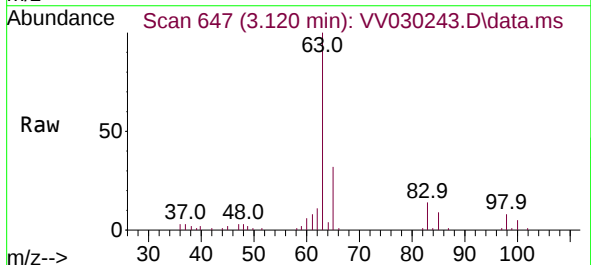
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MSVOA_V
ClientSampleId :

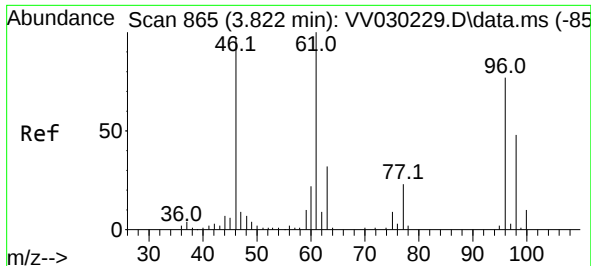
Tgt Ion: 84 Resp: 2648
Ion Ratio Lower Upper
84 100
86 68.7 44.7 83.1
49 128.4 78.8 146.3



#19
1,1-Dichloroethane
Concen: 1.591 ug/L
RT: 3.120 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

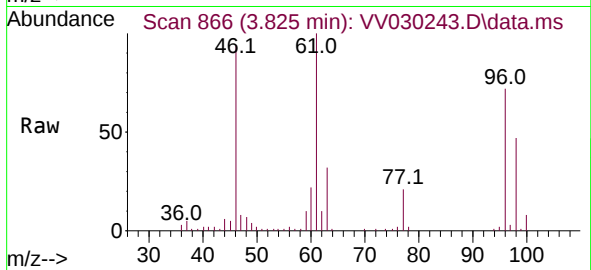
Tgt Ion: 63 Resp: 24126
Ion Ratio Lower Upper
63 100
65 32.4 23.0 42.8
83 14.3 9.6 17.8





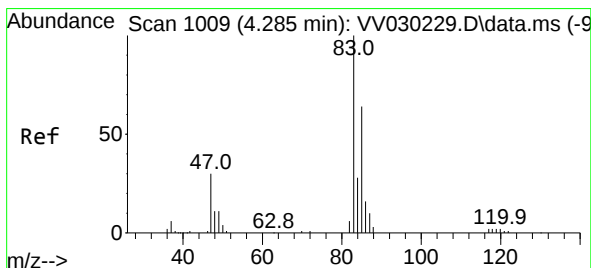
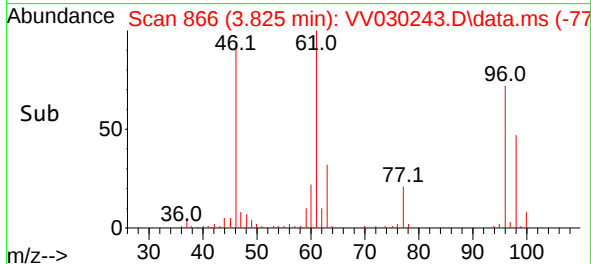
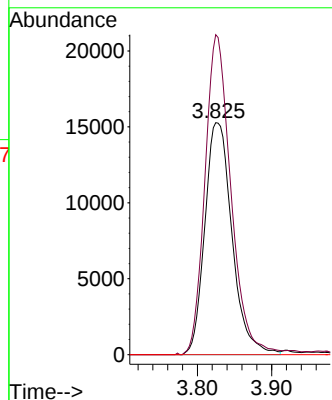
#22
 cis-1,2-Dichloroethene
 Concen: 4.326 ug/L
 RT: 3.825 min Scan# 866
 Delta R.T. 0.003 min
 Lab File: VV030243.D
 Acq: 17 Mar 2023 18:18

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 96 Resp: 38924

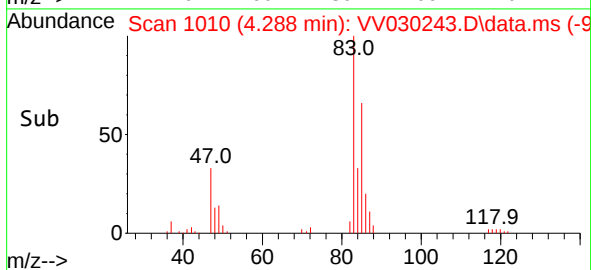
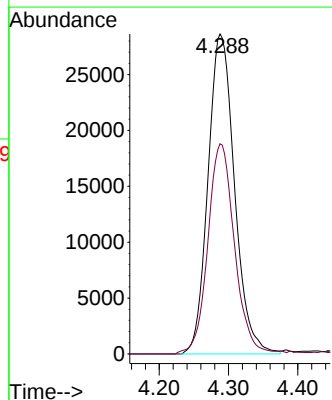
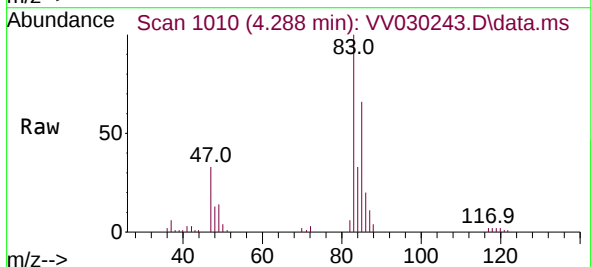
Ion	Ratio	Lower	Upper
96	100		
61	138.0	83.4	154.8
68	0.0	0.0	0.0

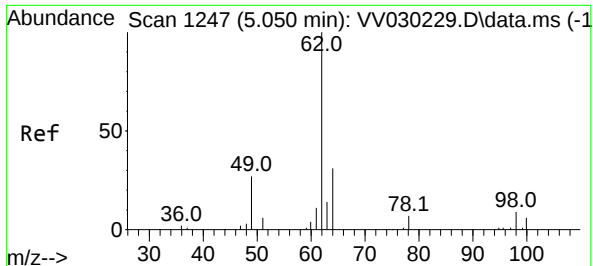


#25
 Chloroform
 Concen: 4.828 ug/L
 RT: 4.288 min Scan# 1010
 Delta R.T. 0.003 min
 Lab File: VV030243.D
 Acq: 17 Mar 2023 18:18

Tgt Ion: 83 Resp: 76170

Ion	Ratio	Lower	Upper
83	100		
85	65.7	46.5	86.5





#27

1,2-Dichloroethane

Concen: 0.226 ug/L

RT: 5.063 min Scan# 11

Delta R.T. 0.013 min

Lab File: VV030243.D

Acq: 17 Mar 2023 18:18

Instrument :

MSVOA_V

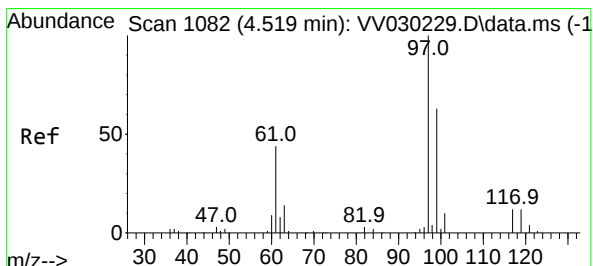
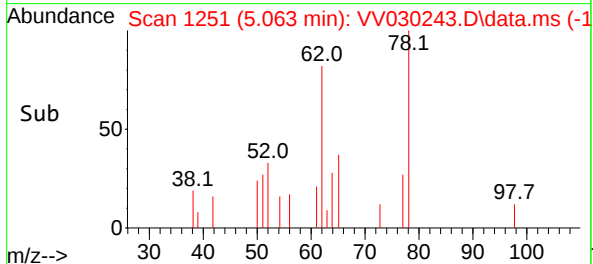
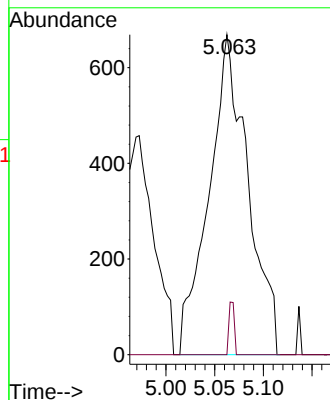
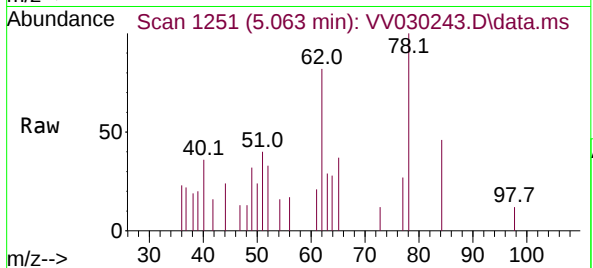
ClientSampleId :

Tgt Ion: 62 Resp: 1865

Ion Ratio Lower Upper

62 100

98 0.0 9.0 13.4#



#29

1,1,1-Trichloroethane

Concen: 14.663 ug/L

RT: 4.522 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV030243.D

Acq: 17 Mar 2023 18:18

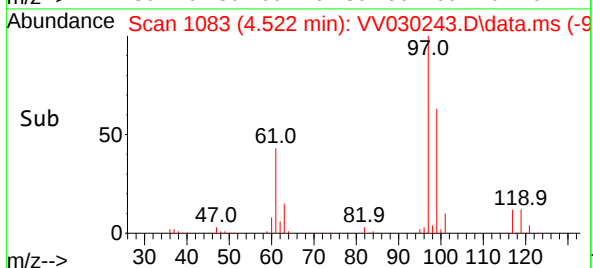
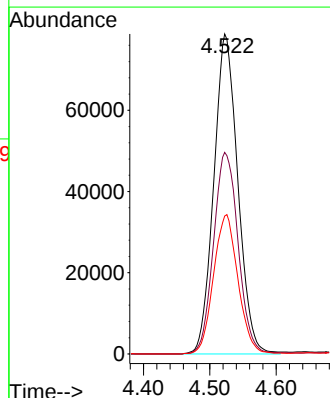
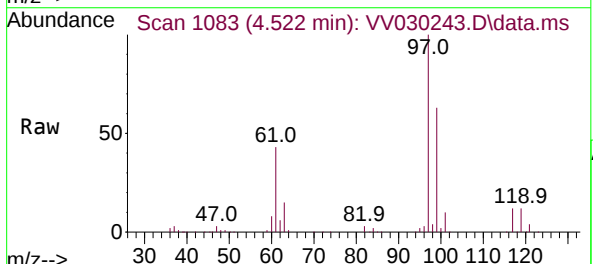
Tgt Ion: 97 Resp: 198676

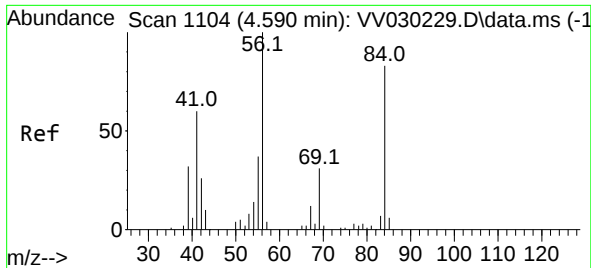
Ion Ratio Lower Upper

97 100

99 64.6 51.3 76.9

61 44.3 31.5 47.3

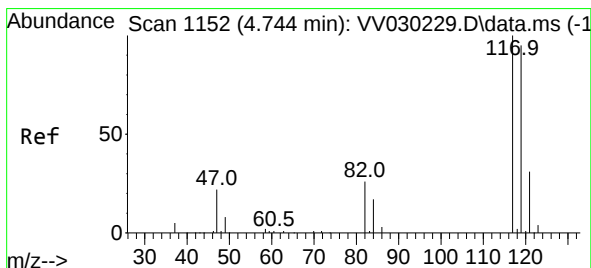
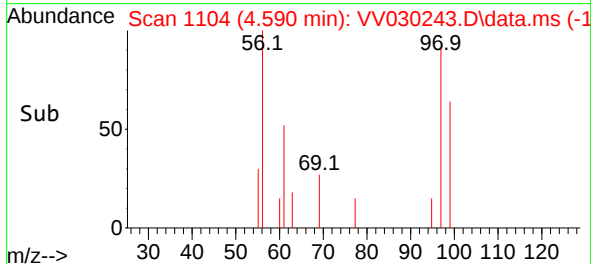
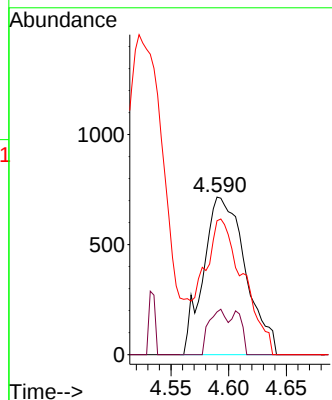
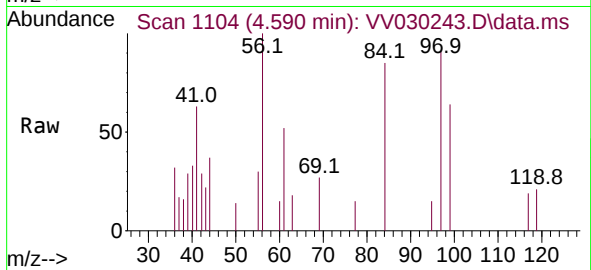




#30
Cyclohexane
Concen: 0.155 ug/L
RT: 4.590 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

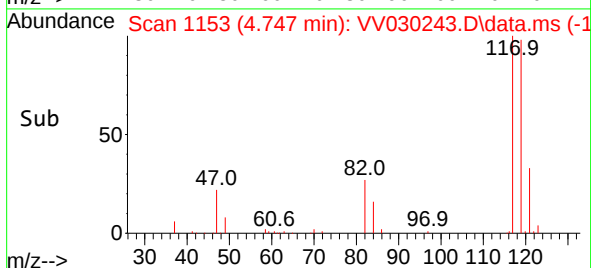
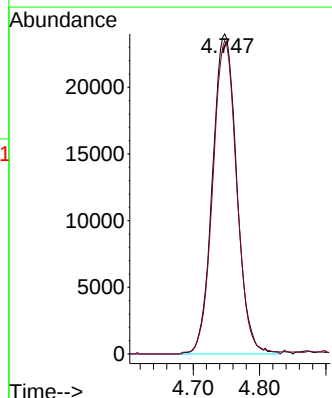
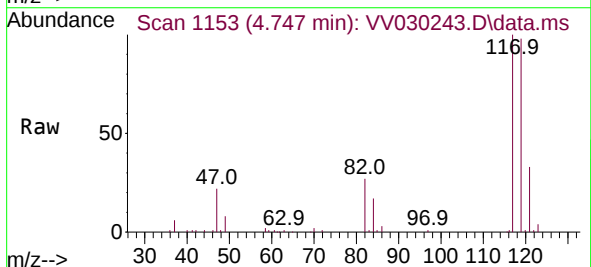
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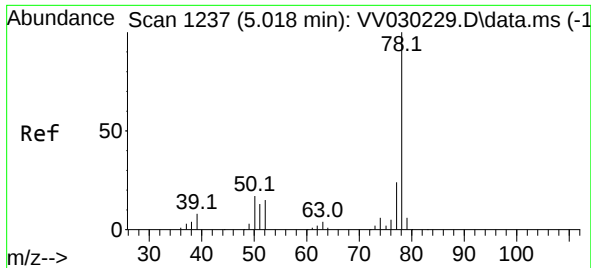
Tgt Ion: 56 Resp: 1813
Ion Ratio Lower Upper
56 100
69 12.5 25.1 37.7#
84 81.0 74.6 111.8



#31
Carbon tetrachloride
Concen: 5.009 ug/L
RT: 4.747 min Scan# 1153
Delta R.T. 0.003 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

Tgt Ion: 117 Resp: 61002
Ion Ratio Lower Upper
117 100
119 96.6 76.1 114.1





#33

Benzene

Concen: 0.544 ug/L

RT: 5.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV030243.D

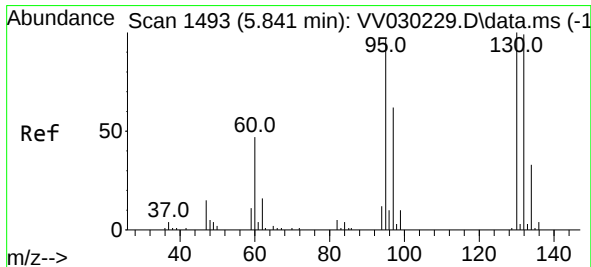
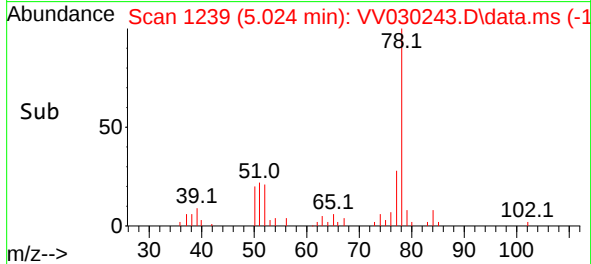
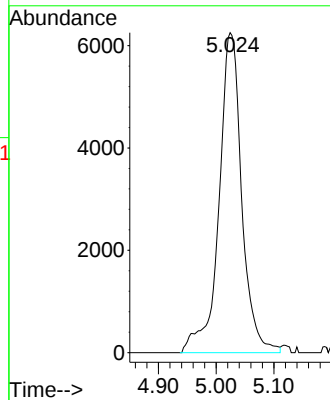
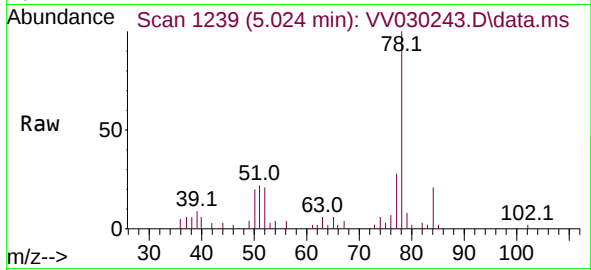
Acq: 17 Mar 2023 18:18

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 17130



#34

Trichloroethene

Concen: 457.042 ug/L

RT: 5.844 min Scan# 1494

Delta R.T. 0.003 min

Lab File: VV030243.D

Acq: 17 Mar 2023 18:18

Tgt Ion: 95 Resp: 4034254

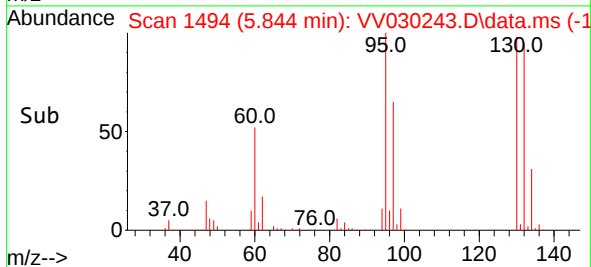
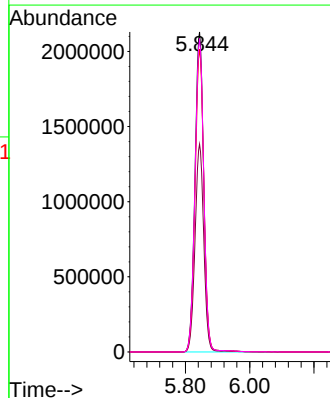
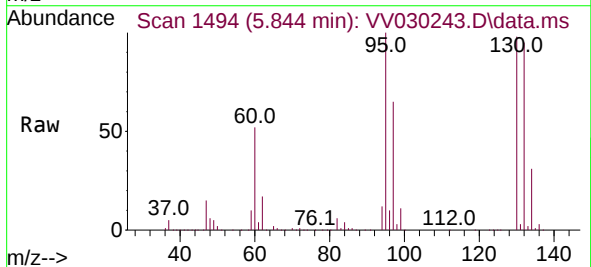
Ion Ratio Lower Upper

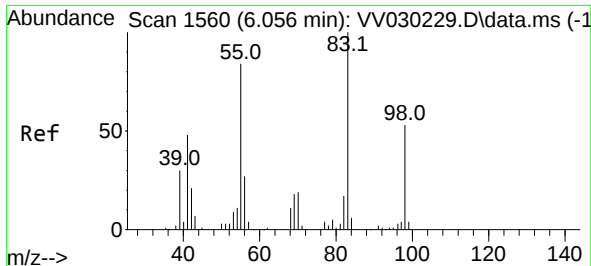
95 100

97 65.0 46.5 86.5

132 94.6 71.7 133.3

130 97.9 74.0 137.4

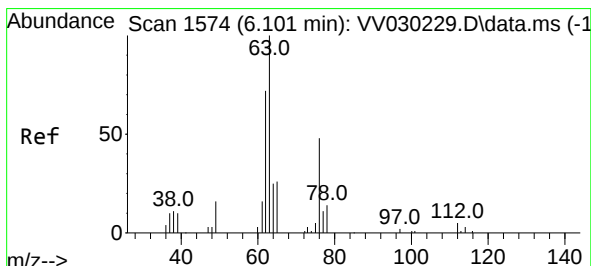
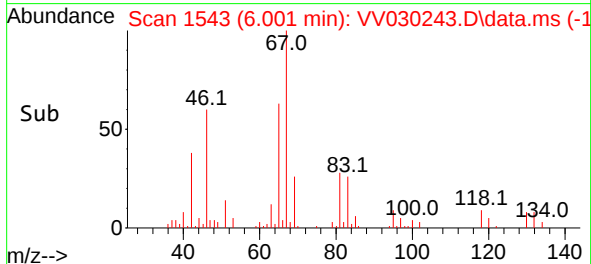
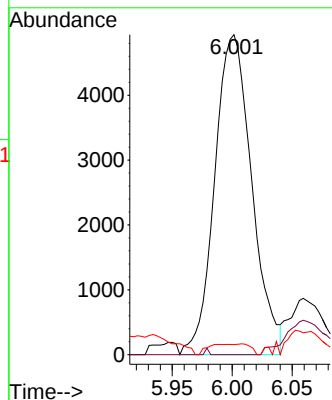
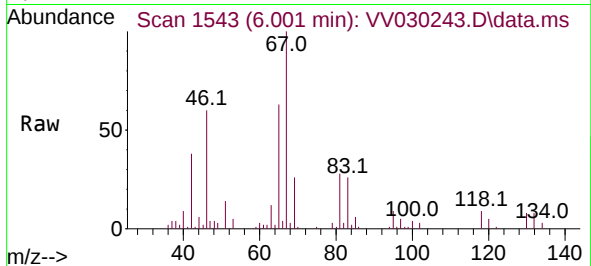




#35
Methylcyclohexane
Concen: 0.795 ug/L
RT: 6.001 min Scan# 11
Delta R.T. -0.055 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

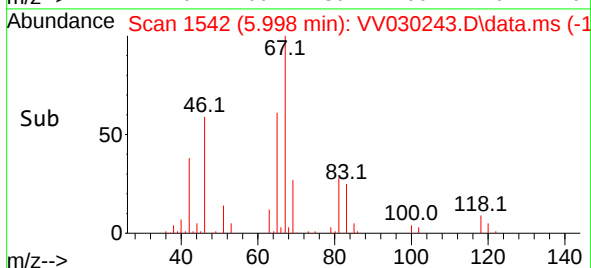
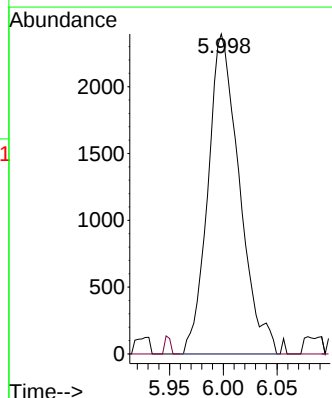
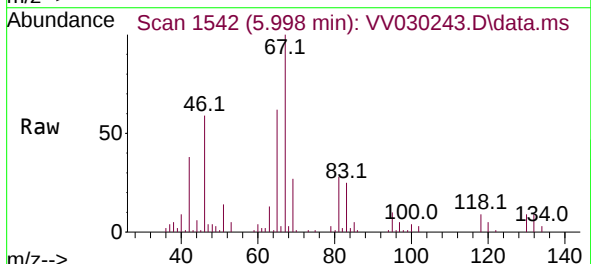
Instrument :
MSVOA_V
ClientSampleId :

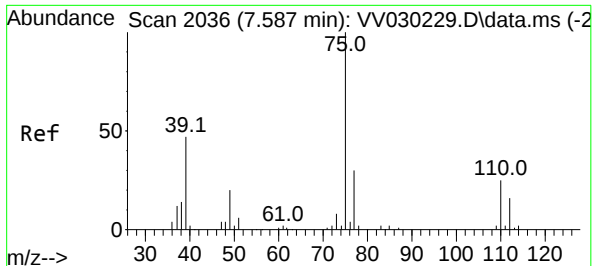
Tgt Ion: 83 Resp: 10616
Ion Ratio Lower Upper
83 100
55 11.4 57.6 86.4#
98 0.0 38.8 58.2#



#37
1,2-Dichloropropane
Concen: 0.607 ug/L
RT: 5.998 min Scan# 1542
Delta R.T. -0.103 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

Tgt Ion: 63 Resp: 4868
Ion Ratio Lower Upper
63 100
112 1.0 3.8 5.6#

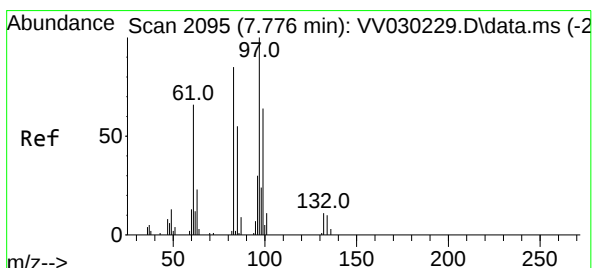
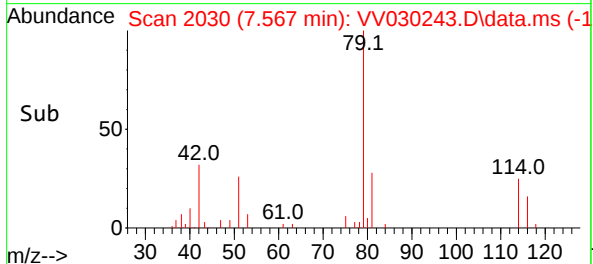
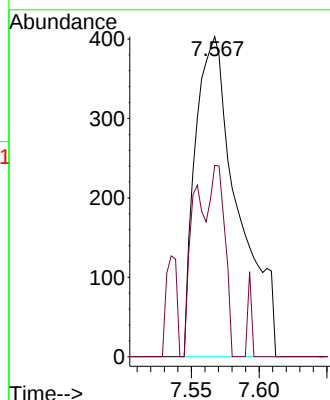
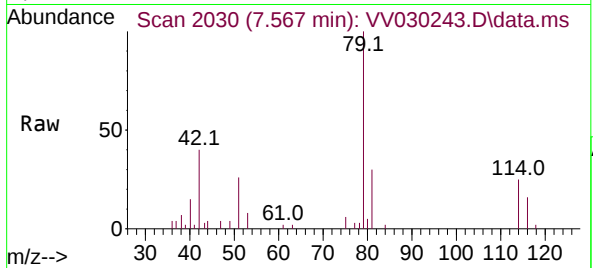




#44
trans-1,3-Dichloropropene
Concen: 0.096 ug/L
RT: 7.567 min Scan# 2036
Delta R.T. -0.019 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

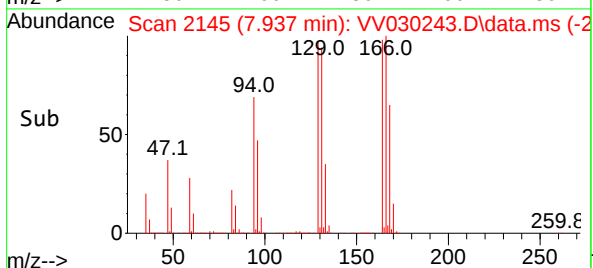
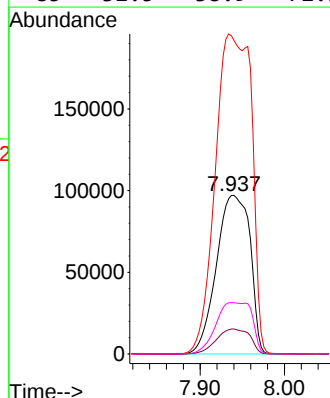
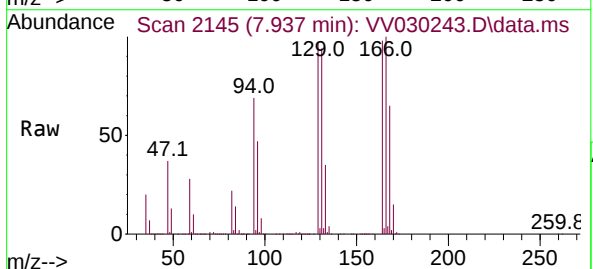
Instrument :
MSVOA_V
ClientSampleId :

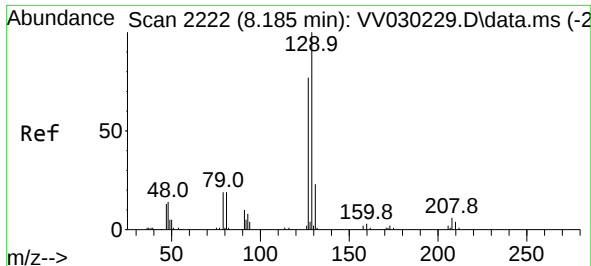
Tgt Ion: 75 Resp: 878
Ion Ratio Lower Upper
75 100
77 59.8 22.1 41.1#



#45
1,1,2-Trichloroethane
Concen: 46.984 ug/L
RT: 7.937 min Scan# 2145
Delta R.T. 0.161 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

Tgt Ion: 97 Resp: 269423
Ion Ratio Lower Upper
97 100
99 15.7 42.6 79.2#
83 200.8 57.7 107.3#
85 32.5 38.9 72.2#





#49

Dibromochloromethane

Concen: 3574.746 ug/L

RT: 7.943 min Scan# 2147

Delta R.T. -0.241 min

Lab File: VV030243.D

Acq: 17 Mar 2023 18:18

Instrument :

MSVOA_V

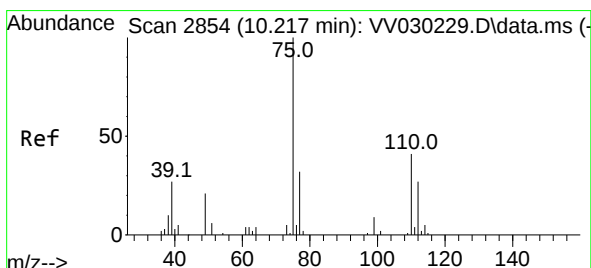
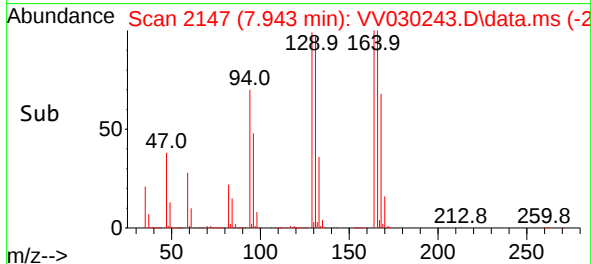
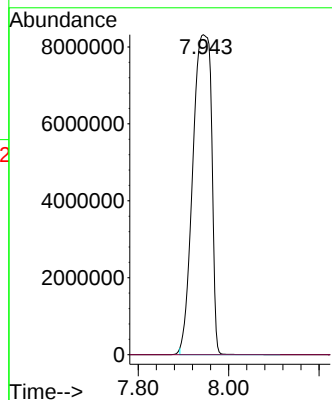
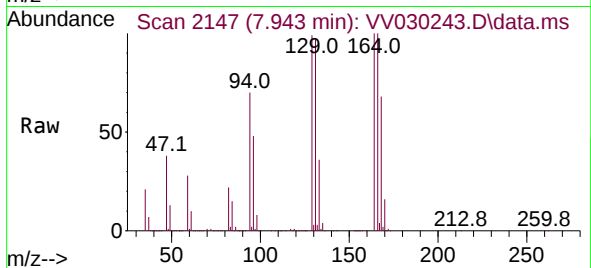
ClientSampleId :

Tgt Ion:129 Resp:23987294

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



#61

1,2,3-Trichloropropane

Concen: 0.630 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.910 min

Lab File: VV030243.D

Acq: 17 Mar 2023 18:18

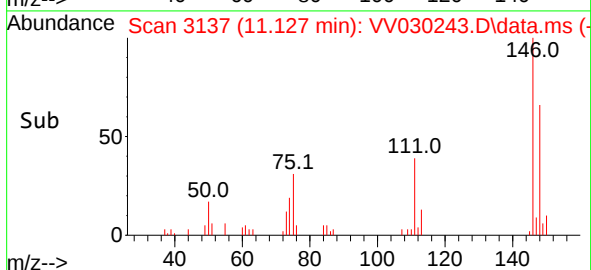
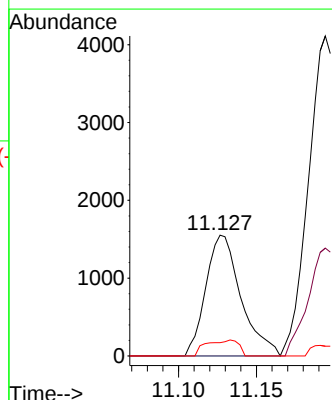
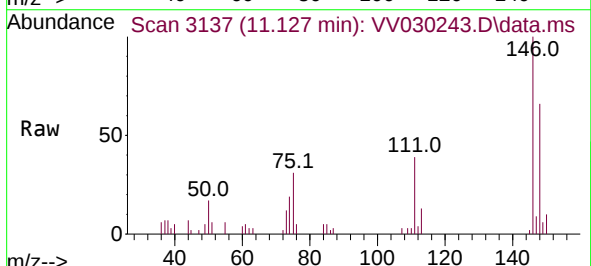
Tgt Ion: 75 Resp: 2438

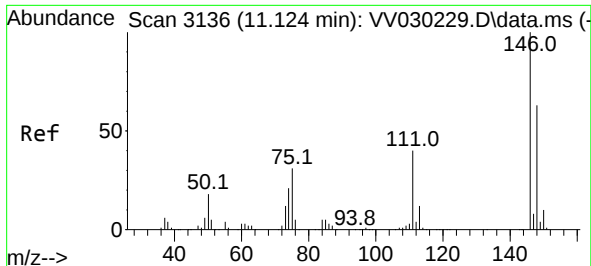
Ion Ratio Lower Upper

75 100

77 3.5 26.5 39.7#

110 12.1 31.8 47.6#

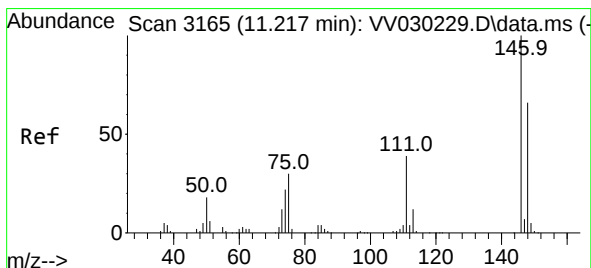
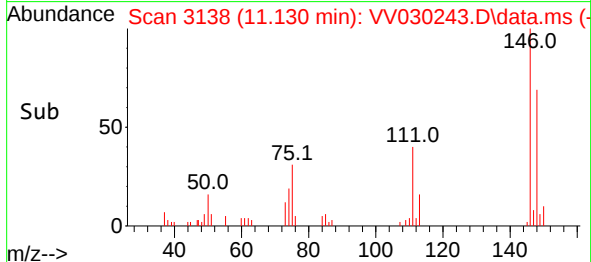
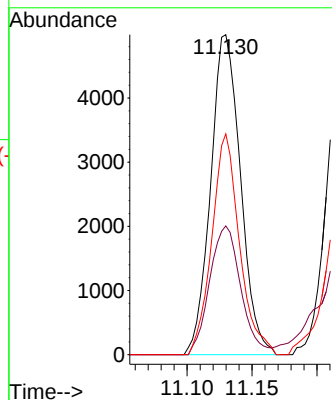
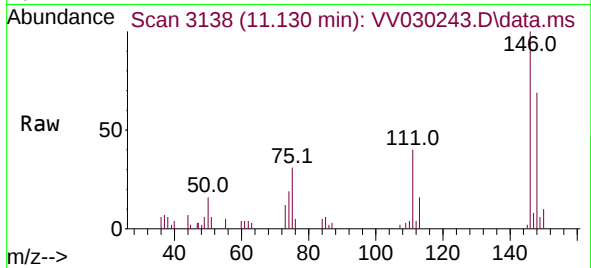




#64
1,3-Dichlorobenzene
Concen: 0.460 ug/L
RT: 11.130 min Scan# 3136
Delta R.T. 0.006 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

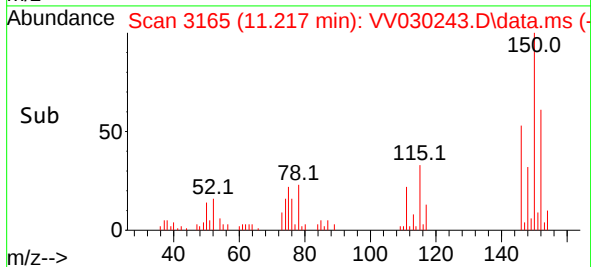
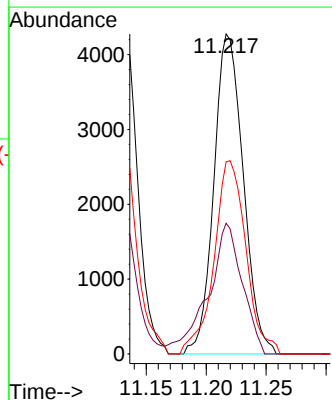
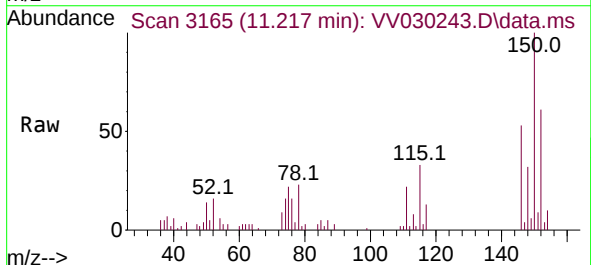
Instrument :
MSVOA_V
ClientSampleId :

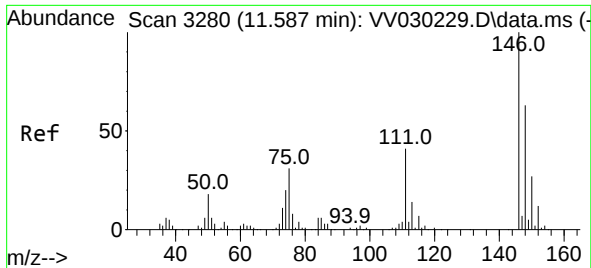
Tgt Ion:146 Resp: 7969
Ion Ratio Lower Upper
146 100
111 40.2 27.7 51.5
148 69.0 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 0.417 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. -0.000 min
Lab File: VV030243.D
Acq: 17 Mar 2023 18:18

Tgt Ion:146 Resp: 7286
Ion Ratio Lower Upper
146 100
111 40.9 27.4 51.0
148 60.0 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 0.654 ug/L

RT: 11.590 min Scan# 31

Delta R.T. 0.003 min

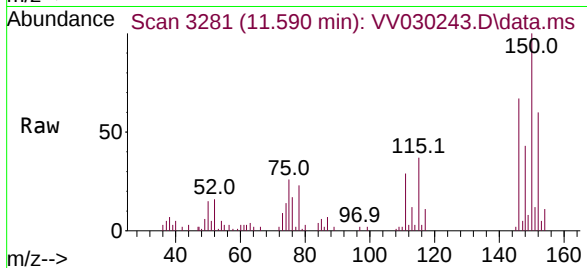
Lab File: VV030243.D

Acq: 17 Mar 2023 18:18

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:146 Resp: 10005

Ion Ratio Lower Upper

146 100

111 43.3 33.5 50.3

148 65.2 51.3 76.9

