

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031723\
 Data File : VW030241.D
 Acq On : 17 Mar 2023 17:28
 Operator : SY/MD
 Sample : 01996-08
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 17 23:00:19 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	133111	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	120614	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	58888	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	32144	3.732	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.600%
7) Chloroethane-d5	1.539	69	30405	3.761	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.200%
11) 1,1-Dichloroethene-d2	2.072	63	202426	11.432	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	228.600%#
20) 2-Butanone-d5	3.812	46	81399	51.260	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.520%
24) Chloroform-d	4.262	84	77428	4.401	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.000%
26) 1,2-Dichloroethane-d4	4.956	65	37472	5.217	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.400%
32) Benzene-d6	4.973	84	129086	3.977	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.600%
36) 1,2-Dichloropropane-d6	5.998	67	41461	4.246	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.000%
41) Toluene-d8	7.252	98	112051	3.642	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.800%
43) trans-1,3-Dichloroprop...	7.561	79	14149	4.236	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.800%
46) 2-Hexanone-d5	8.034	63	67167	48.602	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.200%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	28143	4.052	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.000%
66) 1,2-Dichlorobenzene-d4	11.570	152	41152	4.130	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	35834	2.100	ug/L	99
6) Bromomethane	1.494	94	1670	0.820	ug/L	98
12) 1,1-Dichloroethene	2.076	96	262478	29.383	ug/L #	74
16) Methylene chloride	2.458	84	2870	0.263	ug/L	89
19) 1,1-Dichloroethane	3.124	63	47876	3.024	ug/L	98
22) cis-1,2-Dichloroethene	3.828	96	63737	6.786	ug/L	90
25) Chloroform	4.288	83	171113	10.391	ug/L	97
27) 1,2-Dichloroethane	5.059	62	1023	0.119	ug/L #	90
29) 1,1,1-Trichloroethane	4.522	97	125207	8.837	ug/L	96
31) Carbon tetrachloride	4.529	117	15298	1.201	ug/L	93
33) Benzene	5.021	78	8841	0.268	ug/L	100
34) Trichloroethene	5.841	95	895202	96.987	ug/L	95
35) Methylcyclohexane	5.998	83	10270	0.735	ug/L #	20
37) 1,2-Dichloropropane	5.998	63	4976	0.594	ug/L #	88
39) cis-1,3-Dichloropropene	6.918	75	1260	0.103	ug/L #	54
44) trans-1,3-Dichloropropene	7.564	75	820	0.086	ug/L #	66
45) 1,1,2-Trichloroethane	7.924	97	71855	11.983	ug/L #	1
47) Tetrachloroethene	7.924	164	7173425	905.405	ug/L	93
49) Dibromochloromethane	7.924	129	6929400	987.545	ug/L #	10

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Misc : 25.0mL/MSVOA_V/WATER
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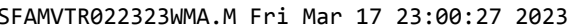
Instrument :
MSVOA_V
ClientSampleId :

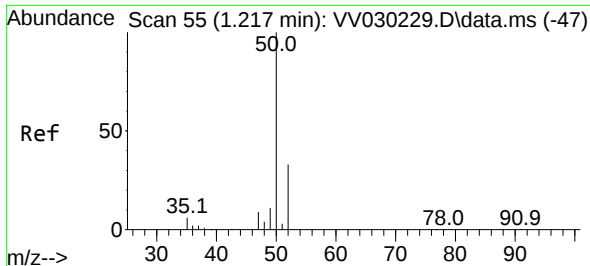
Quant Time: Mar 17 23:00:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Mar 17 22:49:08 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.127	75	1936	0.491	ug/L #	49
64) 1,3-Dichlorobenzene	11.127	146	6626	0.376	ug/L	97
65) 1,4-Dichlorobenzene	11.220	146	10783	0.606	ug/L	95
67) 1,2-Dichlorobenzene	11.590	146	15786	1.013	ug/L	99

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

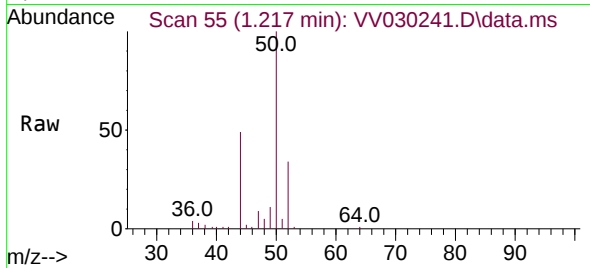
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
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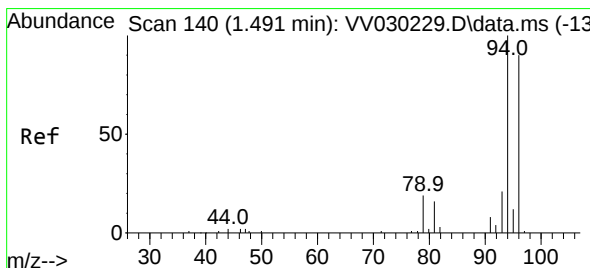
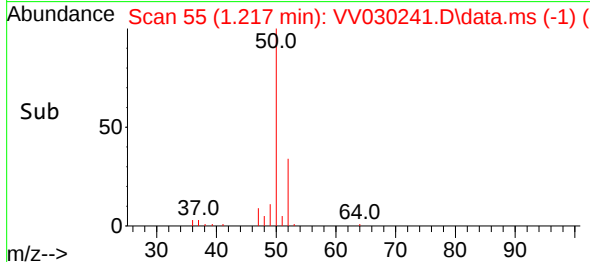
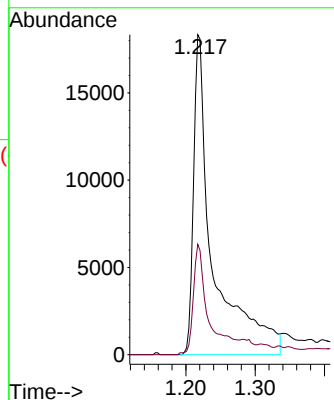


#3
Chloromethane
Concen: 2.100 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030241.D
Acq: 17 Mar 2023 17:28

Instrument :
MSVOA_V
ClientSampleId :

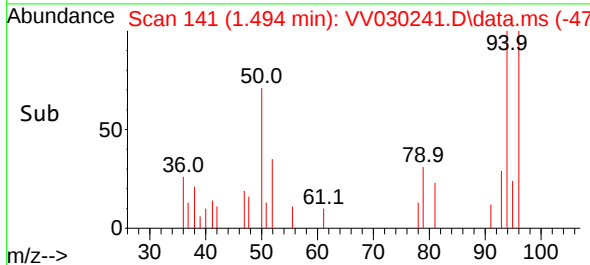
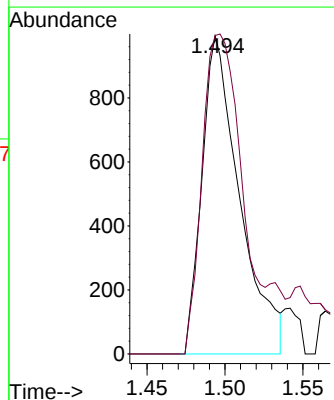
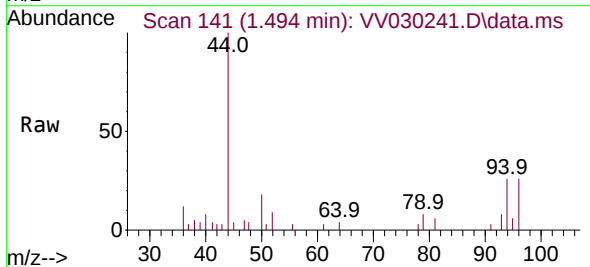


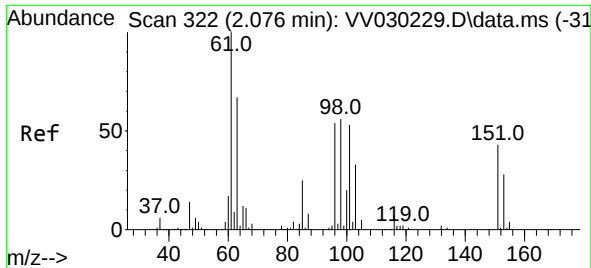
Tgt Ion: 50 Resp: 35834
Ion Ratio Lower Upper
50 100
52 34.5 23.6 43.8



#6
Bromomethane
Concen: 0.820 ug/L
RT: 1.494 min Scan# 141
Delta R.T. 0.003 min
Lab File: VV030241.D
Acq: 17 Mar 2023 17:28

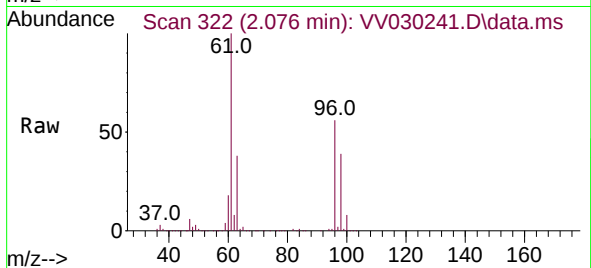
Tgt Ion: 94 Resp: 1670
Ion Ratio Lower Upper
94 100
96 100.1 68.4 127.0



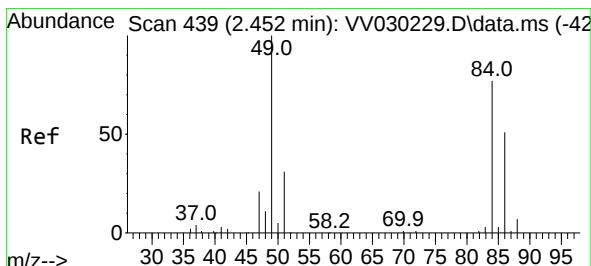
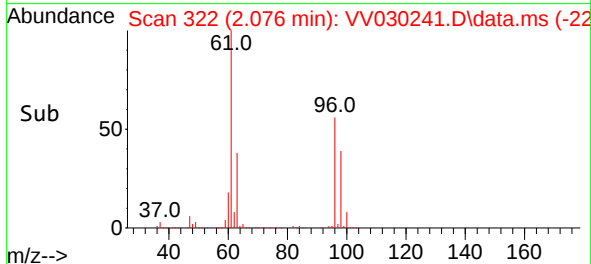
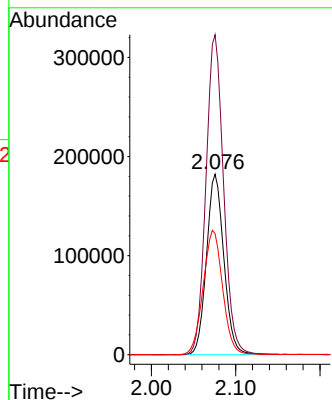


#12
1,1-Dichloroethene
Concen: 29.383 ug/L
RT: 2.076 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV030241.D
Acq: 17 Mar 2023 17:28

Instrument :
MSVOA_V
ClientSampleId :

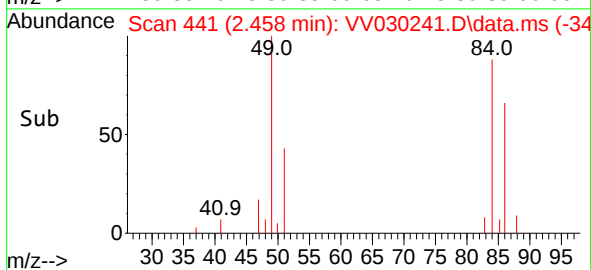
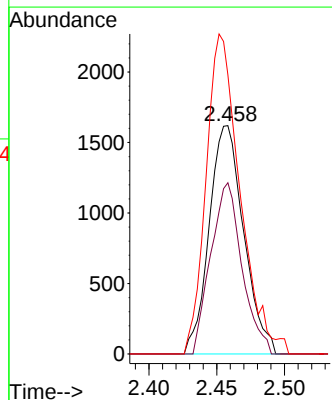
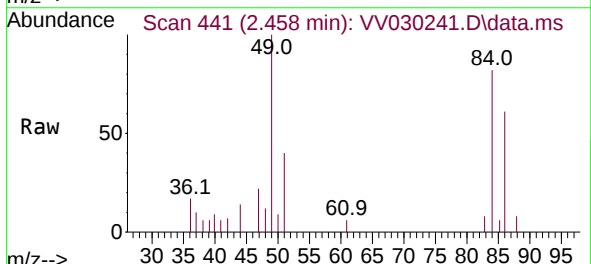


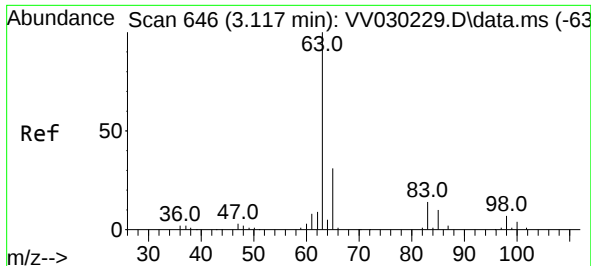
Tgt Ion: 96 Resp: 262478
Ion Ratio Lower Upper
96 100
61 177.3 115.6 214.6
63 67.1 85.6 159.0#



#16
Methylene chloride
Concen: 0.263 ug/L
RT: 2.458 min Scan# 441
Delta R.T. 0.006 min
Lab File: VV030241.D
Acq: 17 Mar 2023 17:28

Tgt Ion: 84 Resp: 2870
Ion Ratio Lower Upper
84 100
86 74.9 44.7 83.1
49 122.3 78.8 146.3





#19

1,1-Dichloroethane

Concen: 3.024 ug/L

RT: 3.124 min Scan# 64

Delta R.T. 0.006 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

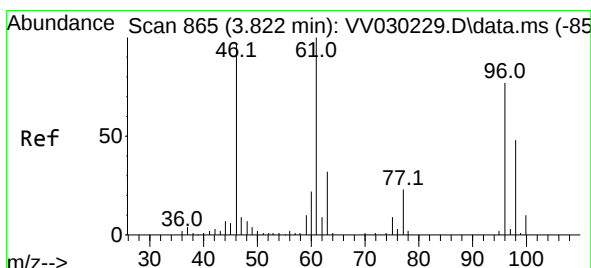
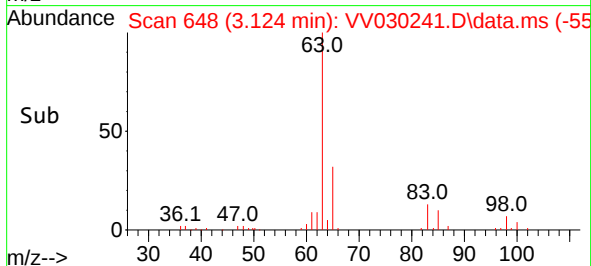
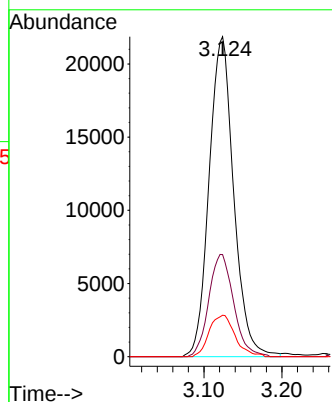
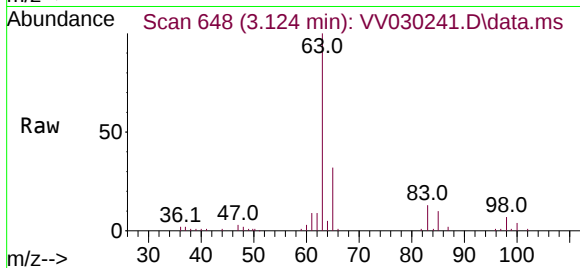
Tgt Ion: 63 Resp: 47876

Ion Ratio Lower Upper

63 100

65 31.9 23.0 42.8

83 13.0 9.6 17.8



#22

cis-1,2-Dichloroethene

Concen: 6.786 ug/L

RT: 3.828 min Scan# 867

Delta R.T. 0.006 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

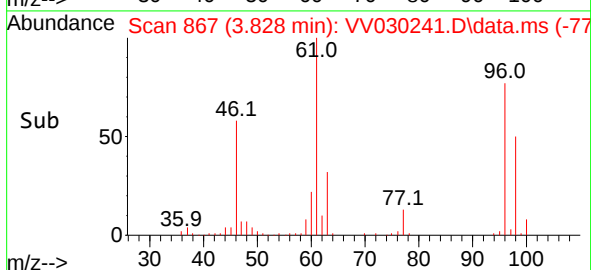
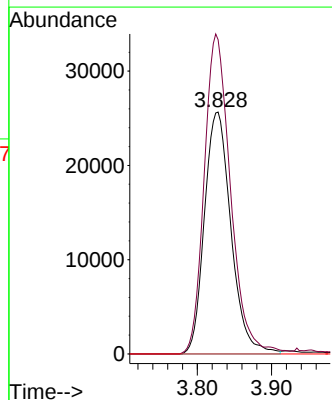
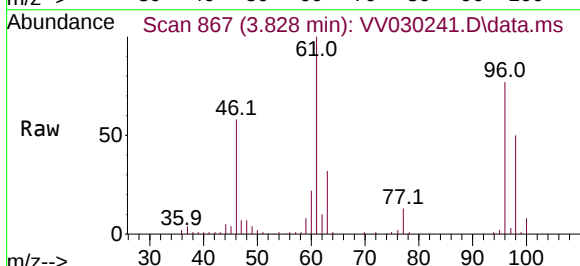
Tgt Ion: 96 Resp: 63737

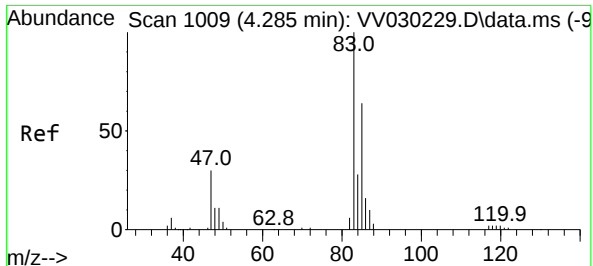
Ion Ratio Lower Upper

96 100

61 129.9 83.4 154.8

68 0.0 0.0 0.0





#25

Chloroform

Concen: 10.391 ug/L

RT: 4.288 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

Instrument :

MSVOA_V

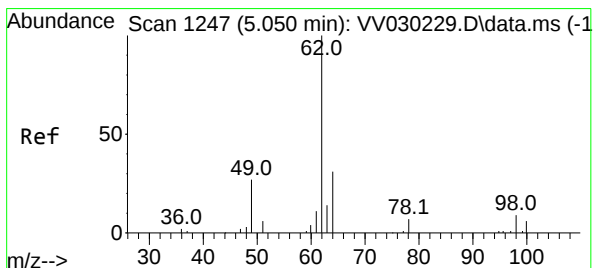
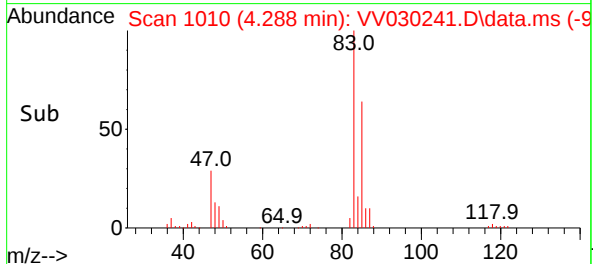
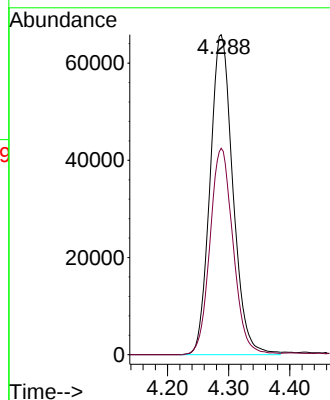
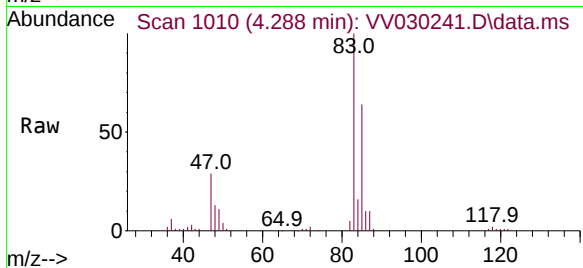
ClientSampleId :

Tgt Ion: 83 Resp: 171113

Ion Ratio Lower Upper

83 100

85 64.5 46.5 86.5



#27

1,2-Dichloroethane

Concen: 0.119 ug/L

RT: 5.059 min Scan# 1250

Delta R.T. 0.010 min

Lab File: VV030241.D

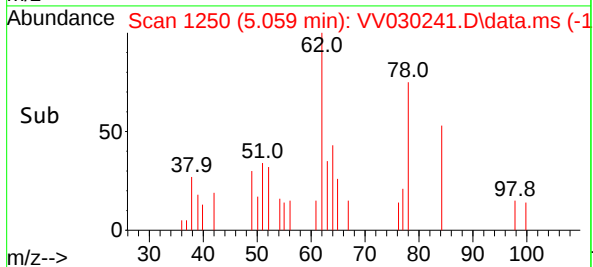
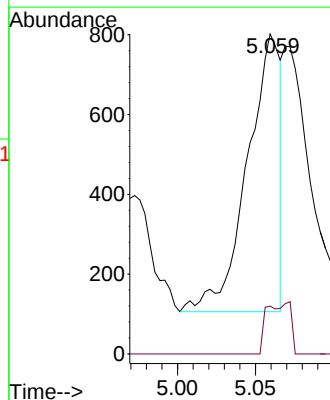
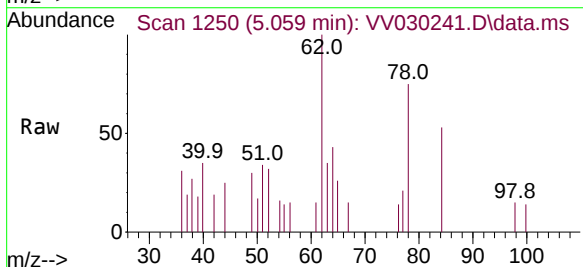
Acq: 17 Mar 2023 17:28

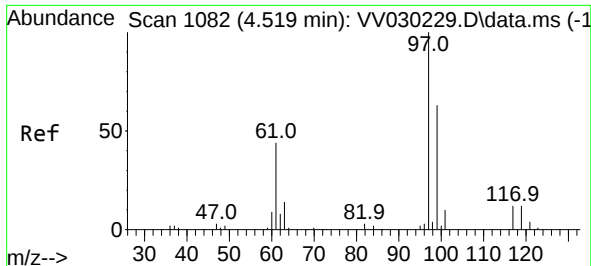
Tgt Ion: 62 Resp: 1023

Ion Ratio Lower Upper

62 100

98 15.0 9.0 13.4#





#29

1,1,1-Trichloroethane

Concen: 8.837 ug/L

RT: 4.522 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

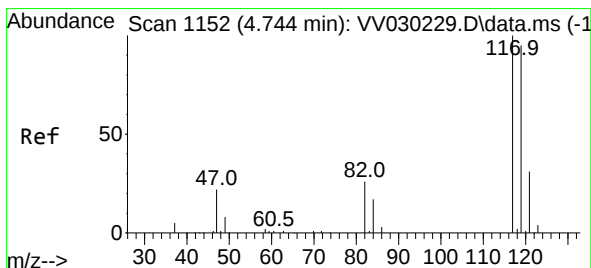
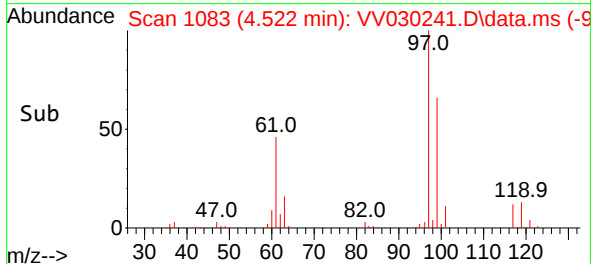
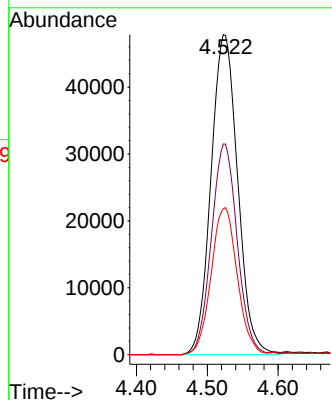
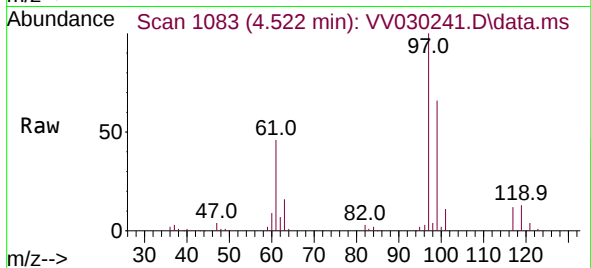
Tgt Ion: 97 Resp: 125207

Ion Ratio Lower Upper

97 100

99 63.9 51.3 76.9

61 45.0 31.5 47.3



#31

Carbon tetrachloride

Concen: 1.201 ug/L

RT: 4.529 min Scan# 1085

Delta R.T. -0.216 min

Lab File: VV030241.D

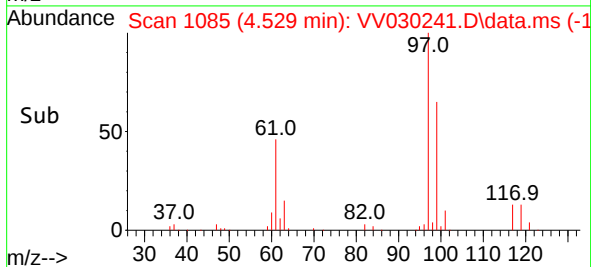
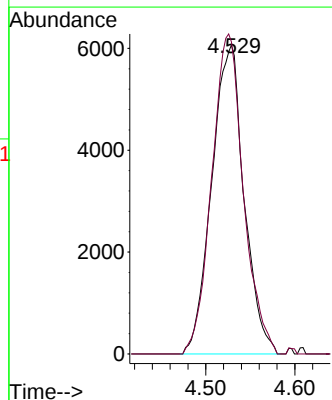
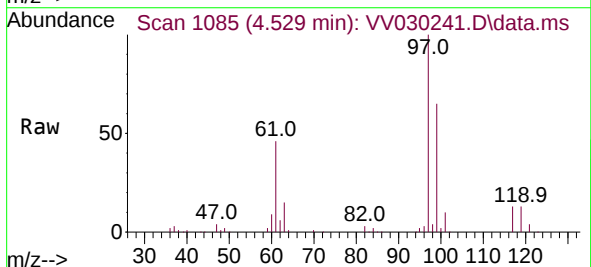
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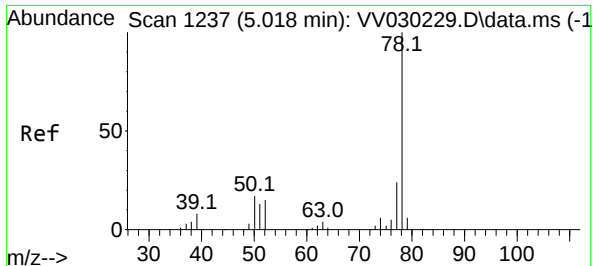
Tgt Ion: 117 Resp: 15298

Ion Ratio Lower Upper

117 100

119 101.6 76.1 114.1

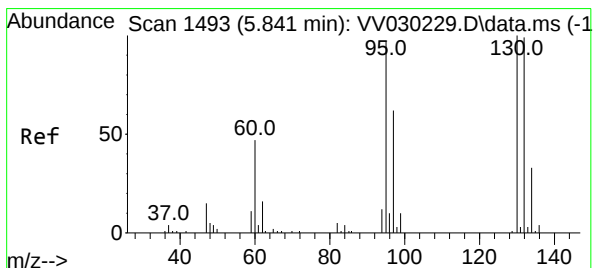
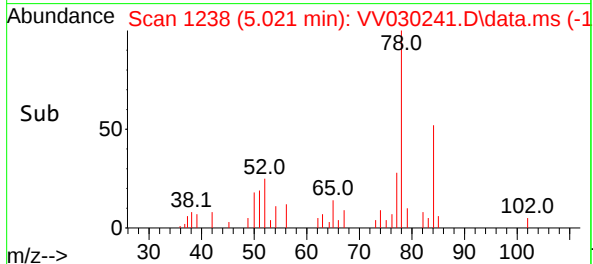
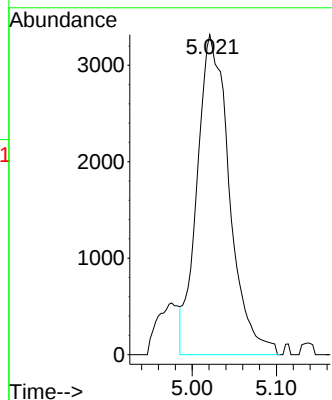
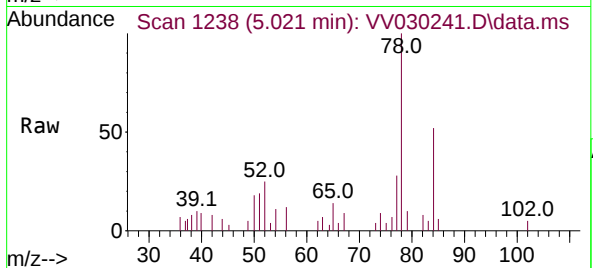




#33
Benzene
Concen: 0.268 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV030241.D
Acq: 17 Mar 2023 17:28

Instrument :
MSVOA_V
ClientSampleId :

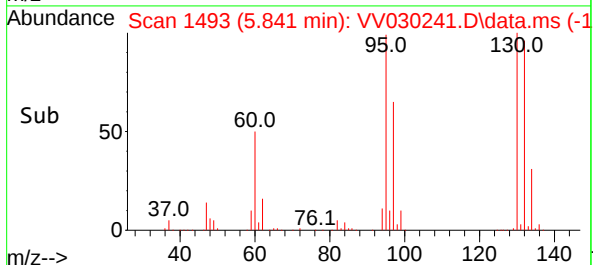
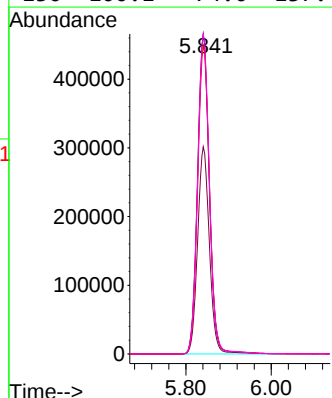
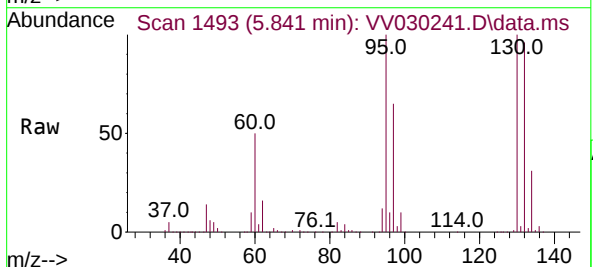
Tgt Ion: 78 Resp: 8841

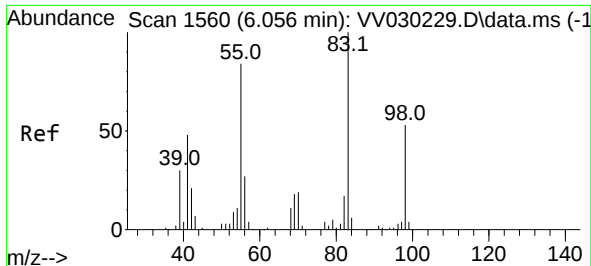


#34
Trichloroethene
Concen: 96.987 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VV030241.D
Acq: 17 Mar 2023 17:28

Tgt Ion: 95 Resp: 895202

Ion	Ratio	Lower	Upper
95	100		
97	64.8	46.5	86.5
132	96.4	71.7	133.3
130	100.1	74.0	137.4

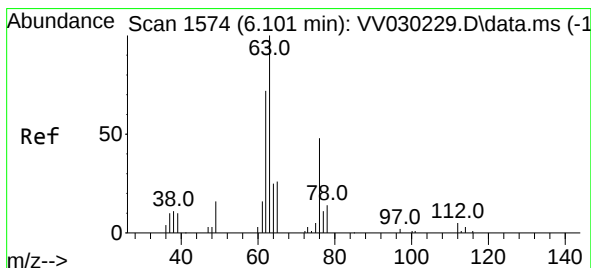
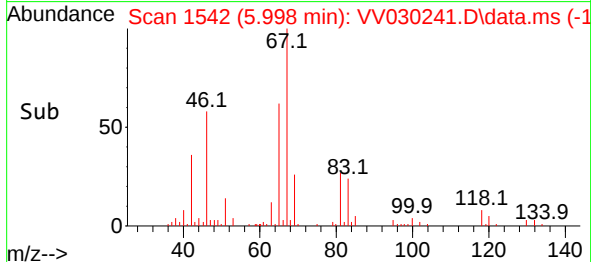
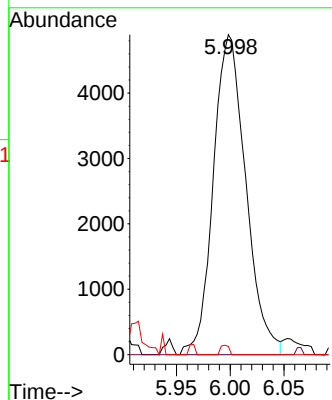
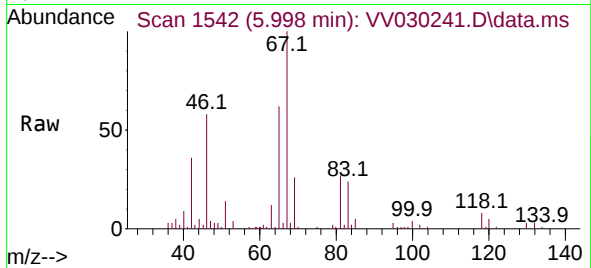




#35
Methylcyclohexane
Concen: 0.735 ug/L
RT: 5.998 min Scan# 11
Delta R.T. -0.058 min
Lab File: VV030241.D
Acq: 17 Mar 2023 17:28

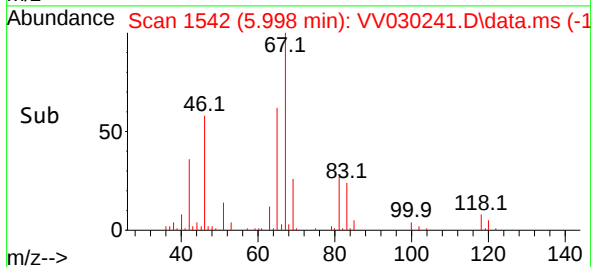
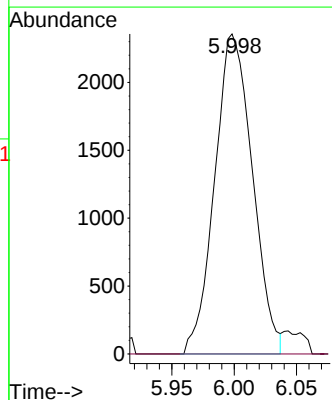
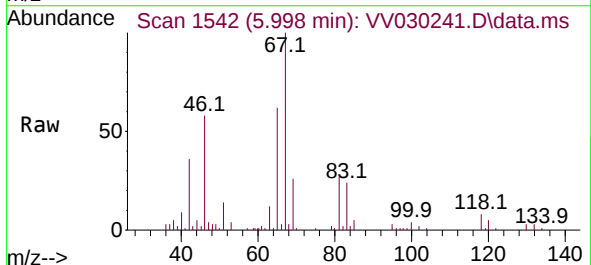
Instrument :
MSVOA_V
ClientSampleId :

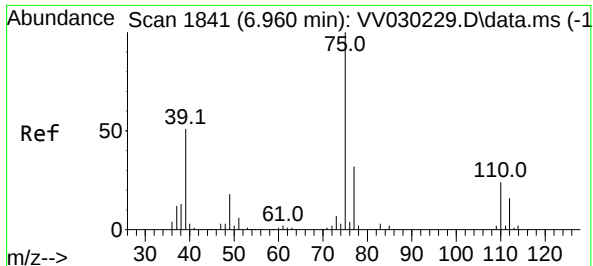
Tgt Ion: 83 Resp: 10270
Ion Ratio Lower Upper
83 100
55 0.4 57.6 86.4#
98 0.0 38.8 58.2#



#37
1,2-Dichloropropane
Concen: 0.594 ug/L
RT: 5.998 min Scan# 1542
Delta R.T. -0.103 min
Lab File: VV030241.D
Acq: 17 Mar 2023 17:28

Tgt Ion: 63 Resp: 4976
Ion Ratio Lower Upper
63 100
112 0.8 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.103 ug/L

RT: 6.918 min Scan# 11

Delta R.T. -0.042 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

Instrument :

MSVOA_V

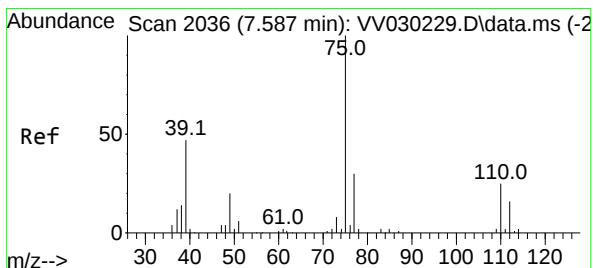
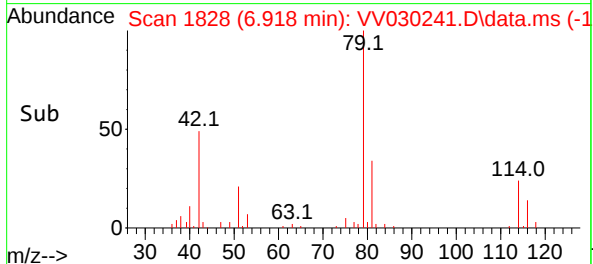
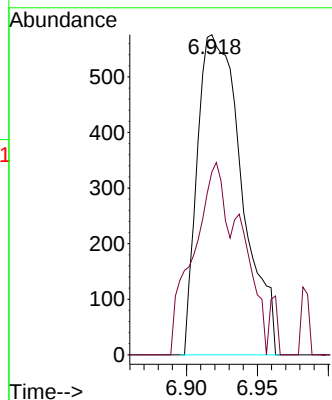
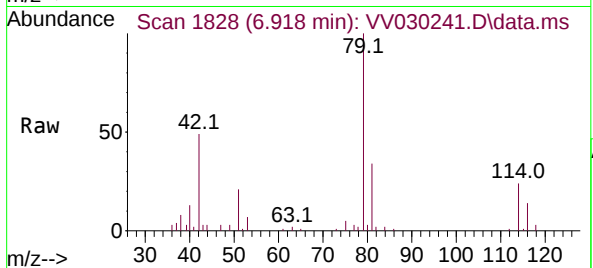
ClientSampleId :

Tgt Ion: 75 Resp: 1260

Ion Ratio Lower Upper

75 100

77 57.1 22.3 41.3#



#44

trans-1,3-Dichloropropene

Concen: 0.086 ug/L

RT: 7.564 min Scan# 2029

Delta R.T. -0.023 min

Lab File: VV030241.D

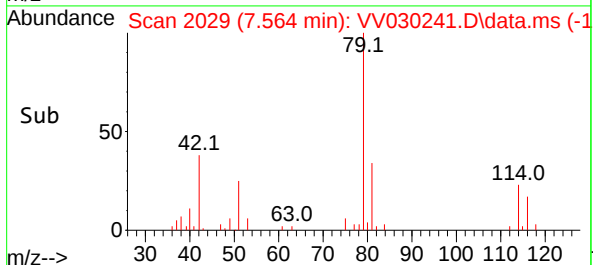
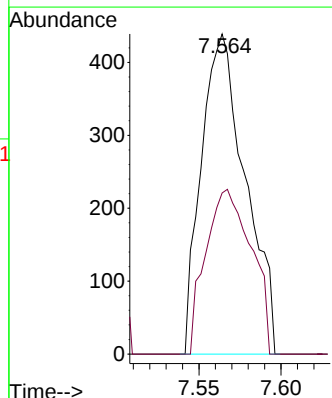
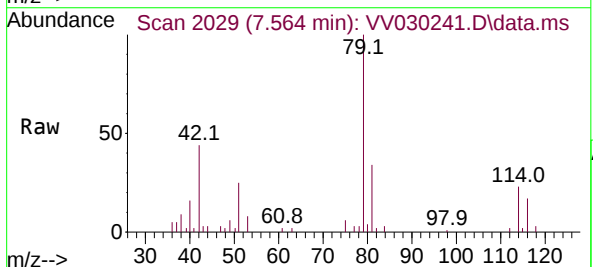
Acq: 17 Mar 2023 17:28

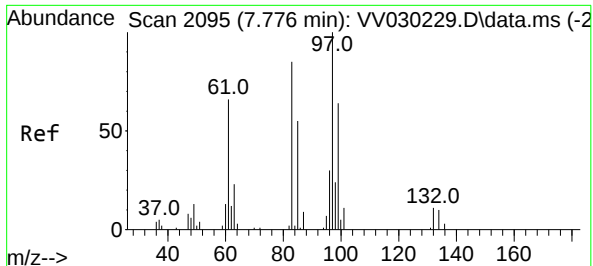
Tgt Ion: 75 Resp: 820

Ion Ratio Lower Upper

75 100

77 50.3 22.1 41.1#





#45

1,1,2-Trichloroethane

Concen: 11.983 ug/L

RT: 7.924 min Scan# 2141

Delta R.T. 0.148 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 97 Resp: 71855

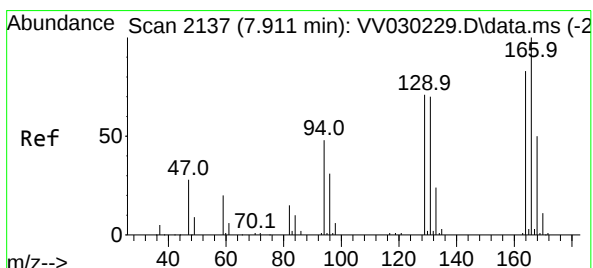
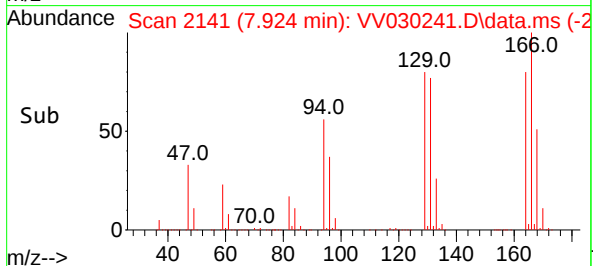
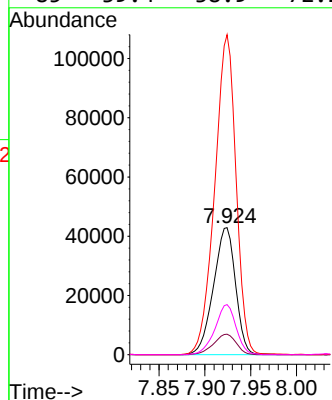
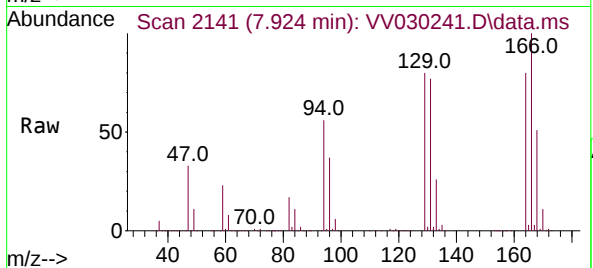
Ion Ratio Lower Upper

97 100

99 16.1 42.6 79.2#

83 251.9 57.7 107.3#

85 39.4 38.9 72.2



#47

Tetrachloroethene

Concen: 905.405 ug/L

RT: 7.924 min Scan# 2141

Delta R.T. 0.013 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

Tgt Ion:164 Resp: 7173425

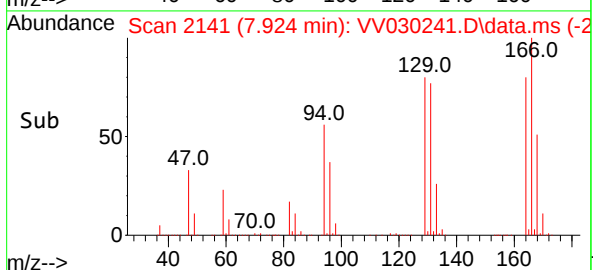
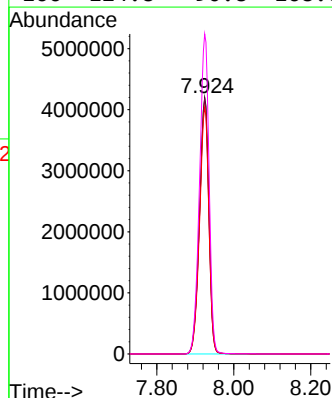
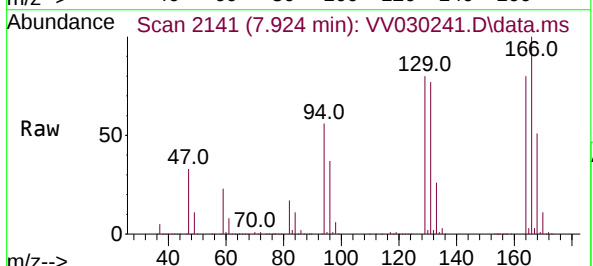
Ion Ratio Lower Upper

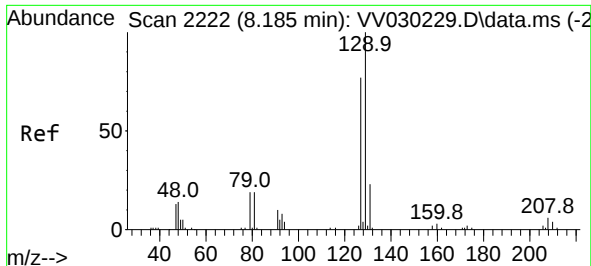
164 100

129 99.4 63.6 118.2

131 96.1 61.7 114.7

166 124.8 90.8 168.6





#49

Dibromochloromethane

Concen: 987.545 ug/L

RT: 7.924 min Scan# 2141

Delta R.T. -0.261 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

Instrument :

MSVOA_V

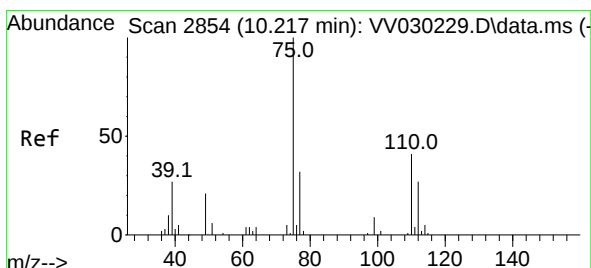
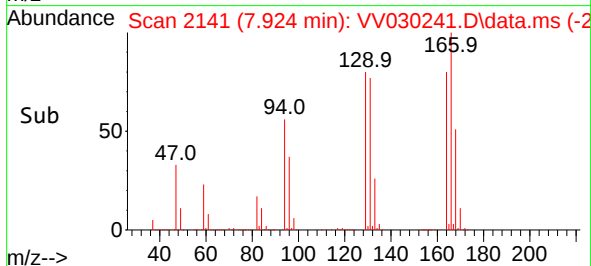
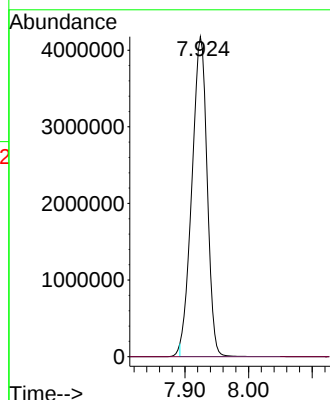
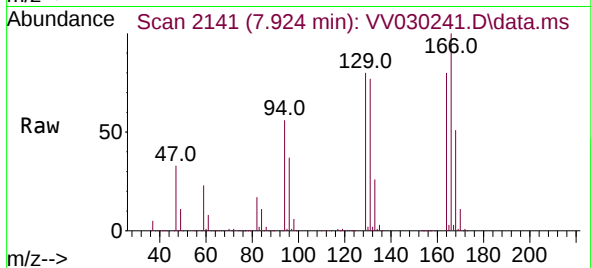
ClientSampleId :

Tgt Ion:129 Resp: 6929400

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



#61

1,2,3-Trichloropropane

Concen: 0.491 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.910 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

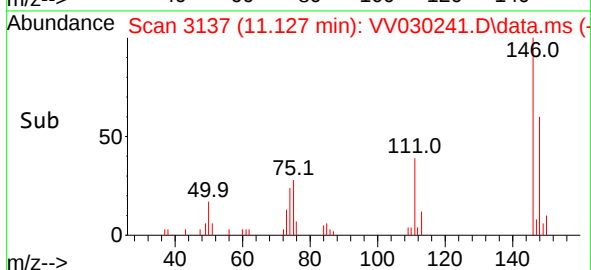
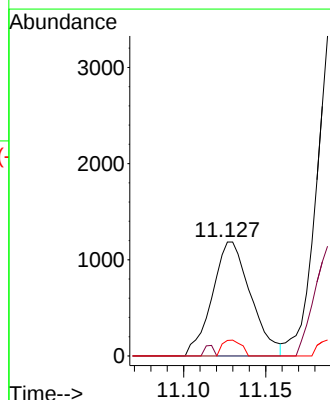
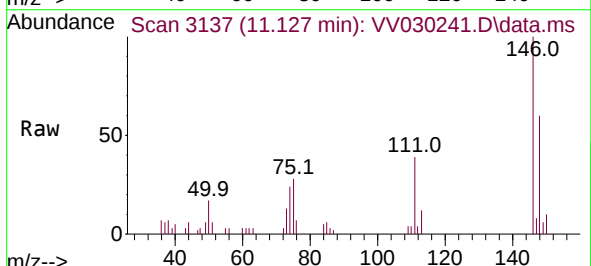
Tgt Ion: 75 Resp: 1936

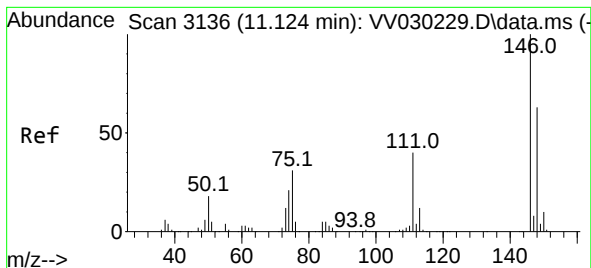
Ion Ratio Lower Upper

75 100

77 6.1 26.5 39.7#

110 6.9 31.8 47.6#





#64

1,3-Dichlorobenzene

Concen: 0.376 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.003 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

Instrument :

MSVOA_V

ClientSampleId :

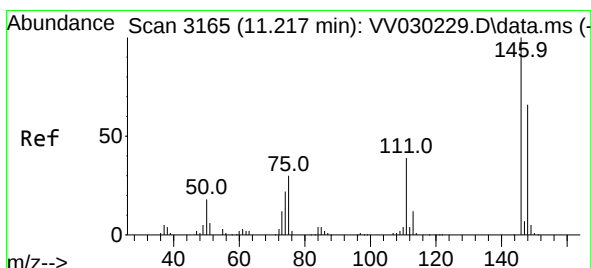
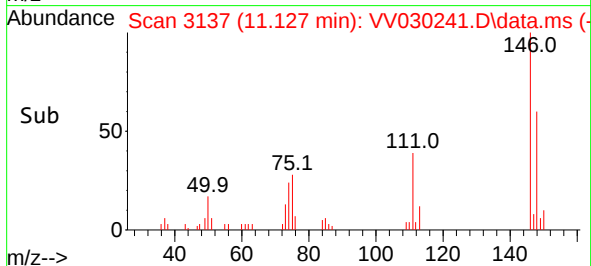
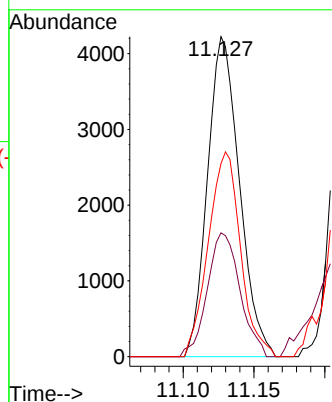
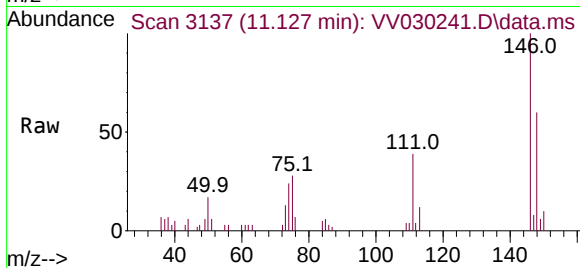
Tgt Ion:146 Resp: 6626

Ion Ratio Lower Upper

146 100

111 38.7 27.7 51.5

148 60.4 44.5 82.7



#65

1,4-Dichlorobenzene

Concen: 0.606 ug/L

RT: 11.220 min Scan# 3166

Delta R.T. 0.003 min

Lab File: VV030241.D

Acq: 17 Mar 2023 17:28

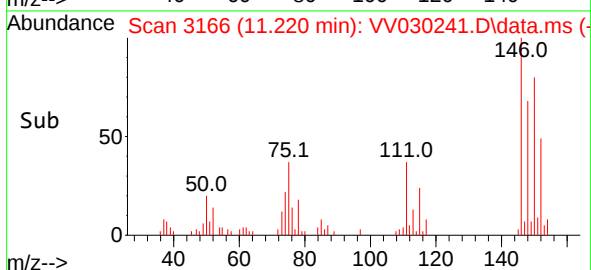
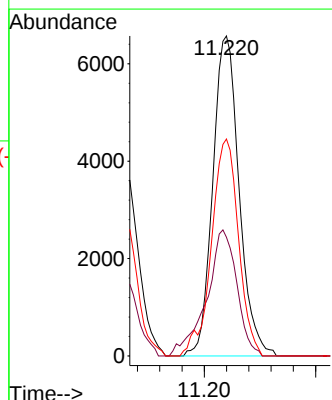
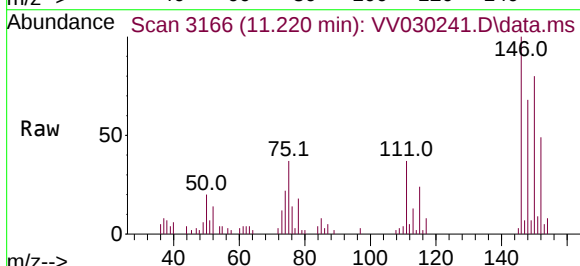
Tgt Ion:146 Resp: 10783

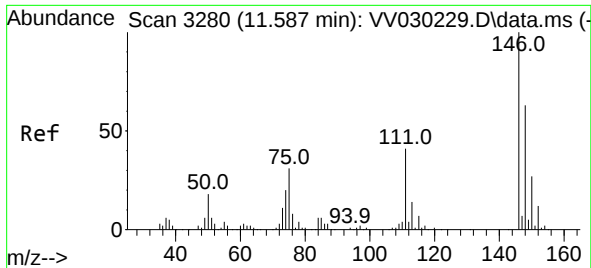
Ion Ratio Lower Upper

146 100

111 37.1 27.4 51.0

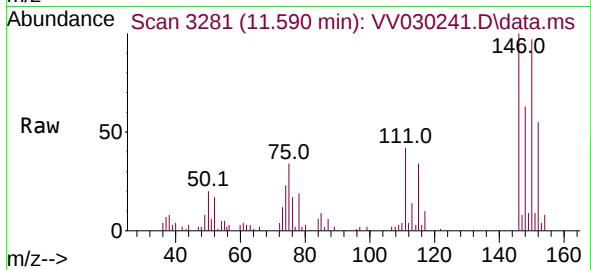
148 67.8 44.1 81.9





#67
 1,2-Dichlorobenzene
 Concen: 1.013 ug/L
 RT: 11.590 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VV030241.D
 Acq: 17 Mar 2023 17:28

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	146	Resp:	15786
Ion	Ratio	Lower	Upper
146	100		
111	41.8	33.5	50.3
148	63.2	51.3	76.9

