

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041323\
 Data File : VW030546.D
 Acq On : 13 Apr 2023 15:33
 Operator : SY/MD
 Sample : 02250-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHD5

Quant Time: Apr 14 05:21:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Apr 14 05:16:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	125619	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.796	117	123298	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	63736	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	47454	5.704	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	114.000%
7) Chloroethane-d5	1.535	69	38701	4.793	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.800%
11) 1,1-Dichloroethene-d2	2.066	63	89485	4.533	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.600%
20) 2-Butanone-d5	3.809	46	92211	42.880	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.760%
24) Chloroform-d	4.262	84	87145	4.328	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.600%
26) 1,2-Dichloroethane-d4	4.953	65	44976	4.734	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.600%
32) Benzene-d6	4.973	84	149469	4.302	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.000%
36) 1,2-Dichloropropane-d6	6.001	67	48832	4.489	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.800%
41) Toluene-d8	7.252	98	128743	4.035	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.600%
43) trans-1,3-Dichloroprop...	7.564	79	18538	4.526	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.600%
46) 2-Hexanone-d5	8.034	63	73778	44.831	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.660%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	34405	4.013	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.200%
66) 1,2-Dichlorobenzene-d4	11.570	152	53705	4.714	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	1746	0.087	ug/L	92
6) Bromomethane	1.497	94	518	0.124	ug/L	73
9) Trichlorofluoromethane	1.715	101	12008	0.561	ug/L	100
12) 1,1-Dichloroethene	2.076	96	34541	3.291	ug/L	92
13) Acetone	2.140	43	5811	2.826	ug/L	100
17) Methyl tert-butyl Ether	2.712	73	3178	0.143	ug/L #	82
18) trans-1,2-Dichloroethene	2.706	96	1341	0.121	ug/L	84
19) 1,1-Dichloroethane	3.121	63	108098	5.043	ug/L	99
22) cis-1,2-Dichloroethene	3.828	96	99161	8.936	ug/L	97
25) Chloroform	4.291	83	22556	1.041	ug/L	97
27) 1,2-Dichloroethane	5.063	62	2231	0.170	ug/L #	84
29) 1,1,1-Trichloroethane	4.526	97	12948	0.653	ug/L	95
31) Carbon tetrachloride	4.526	117	1803	0.100	ug/L	94
34) Trichloroethene	5.841	95	253532	21.466	ug/L	98
35) Methylcyclohexane	6.001	83	11354	0.612	ug/L #	18
44) trans-1,3-Dichloropropene	7.558	75	1235	0.092	ug/L #	55
47) Tetrachloroethene	7.915	164	132592	12.720	ug/L	96
49) Dibromochloromethane	7.915	129	115239	12.229	ug/L #	12
61) 1,2,3-Trichloropropane	10.223	75	690	0.121	ug/L #	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041323\
Data File : VV030546.D
Acq On : 13 Apr 2023 15:33
Operator : SY/MD
Sample : 02250-04
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BHD5

Quant Time: Apr 14 05:21:17 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Apr 14 05:16:37 2023
Response via : Initial Calibration

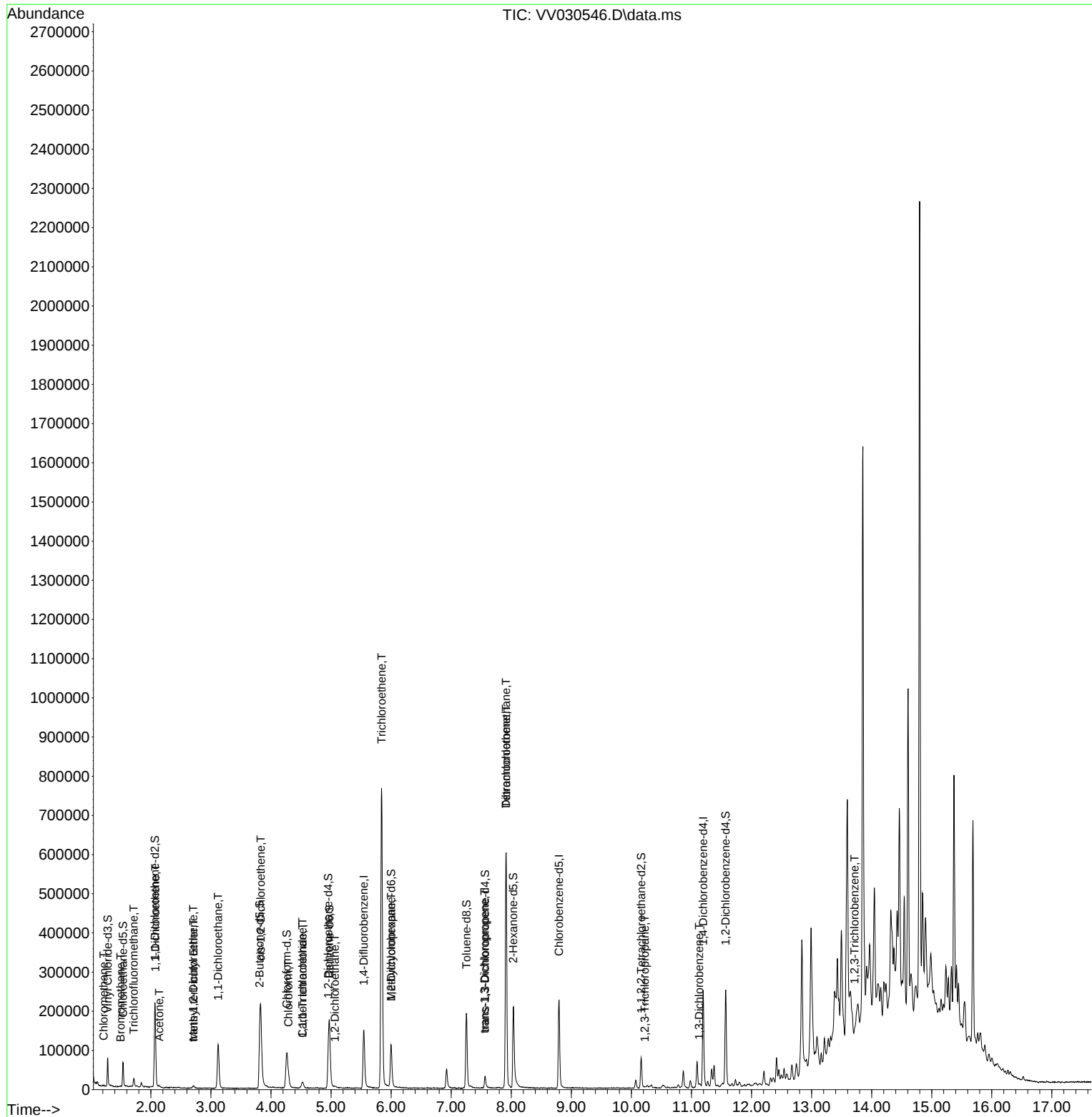
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.130	146	1645	0.070	ug/L #	79
72) 1,2,3-Trichlorobenzene	13.715	180	3020	0.250	ug/L #	14

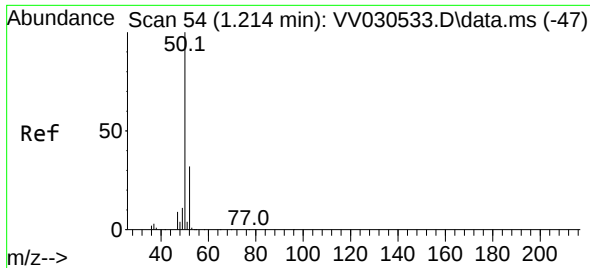
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041323\
Data File : VV030546.D
Acq On : 13 Apr 2023 15:33
Operator : SY/MD
Sample : 02250-04
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BHD5

Quant Time: Apr 14 05:21:17 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Apr 14 05:16:37 2023
Response via : Initial Calibration

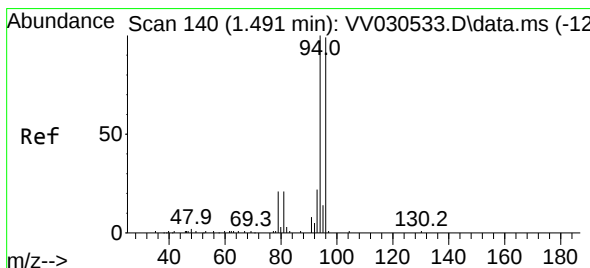
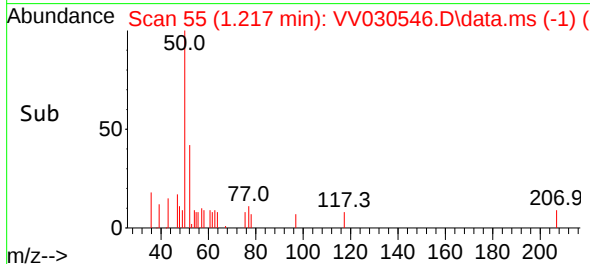
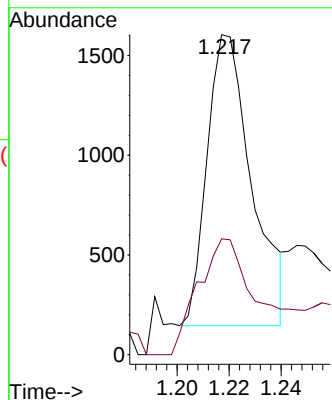
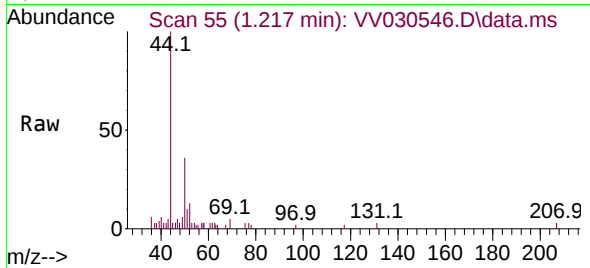




#3
Chloromethane
Concen: 0.087 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV030546.D
Acq: 13 Apr 2023 15:33

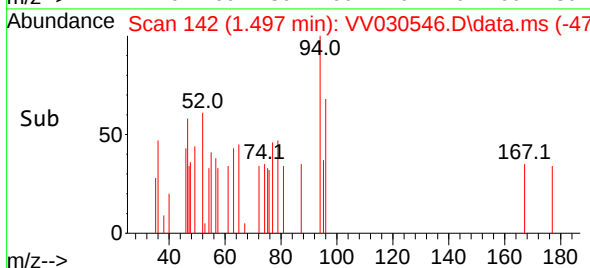
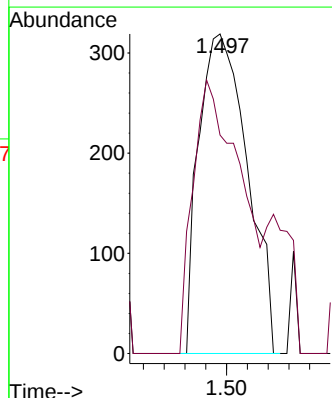
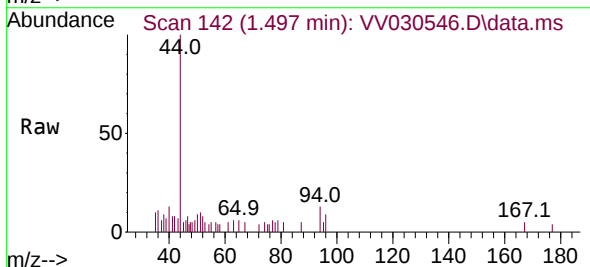
Instrument :
MSVOA_V
ClientSampleId :
BHD5

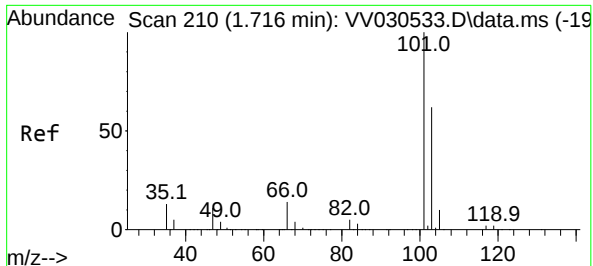
Tgt Ion: 50 Resp: 1746
Ion Ratio Lower Upper
50 100
52 36.2 22.3 41.5



#6
Bromomethane
Concen: 0.124 ug/L
RT: 1.497 min Scan# 142
Delta R.T. 0.006 min
Lab File: VV030546.D
Acq: 13 Apr 2023 15:33

Tgt Ion: 94 Resp: 518
Ion Ratio Lower Upper
94 100
96 68.3 66.1 122.7

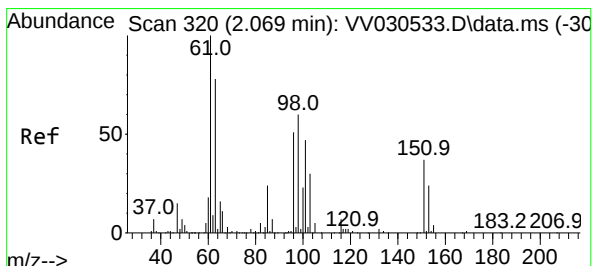
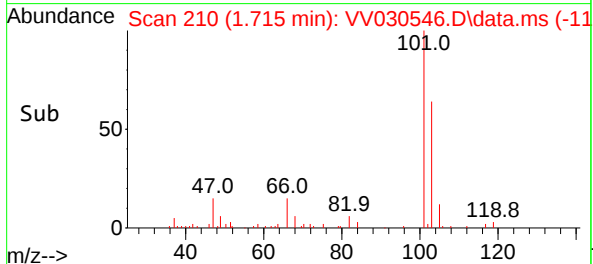
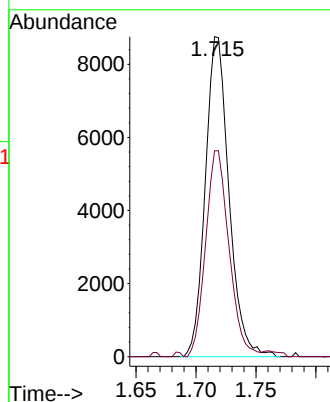
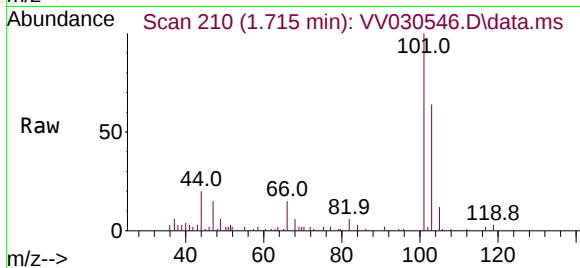




#9
 Trichlorofluoromethane
 Concen: 0.561 ug/L
 RT: 1.715 min Scan# 210
 Delta R.T. -0.000 min
 Lab File: VV030546.D
 Acq: 13 Apr 2023 15:33

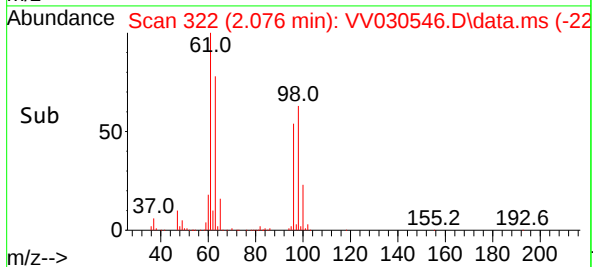
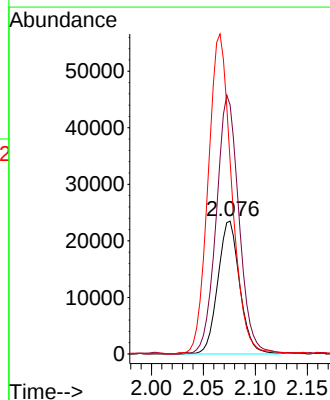
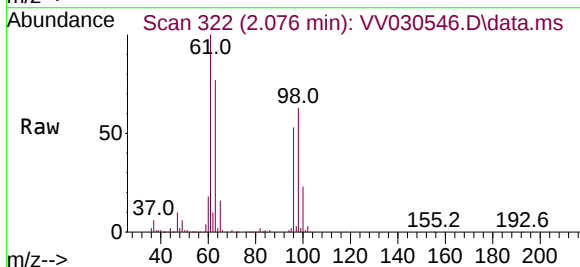
Instrument :
 MSVOA_V
 ClientSampleId :
 BHD5

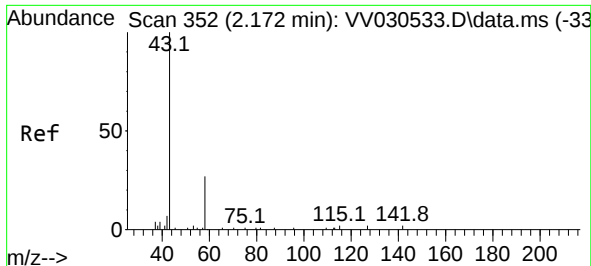
Tgt Ion:101 Resp: 12008
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.0 76.6



#12
 1,1-Dichloroethene
 Concen: 3.291 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. 0.006 min
 Lab File: VV030546.D
 Acq: 13 Apr 2023 15:33

Tgt Ion: 96 Resp: 34541
 Ion Ratio Lower Upper
 96 100
 61 187.4 136.3 253.1
 63 145.1 92.1 171.1





#13

Acetone

Concen: 2.826 ug/L

RT: 2.140 min Scan# 34

Delta R.T. -0.032 min

Lab File: VV030546.D

Acq: 13 Apr 2023 15:33

Instrument :

MSVOA_V

ClientSampleId :

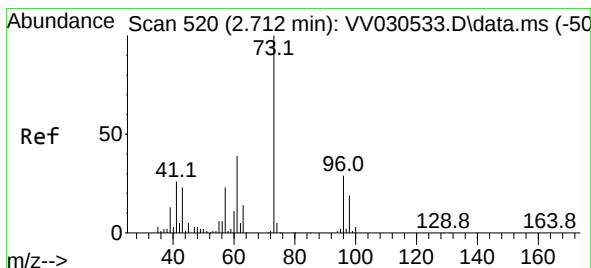
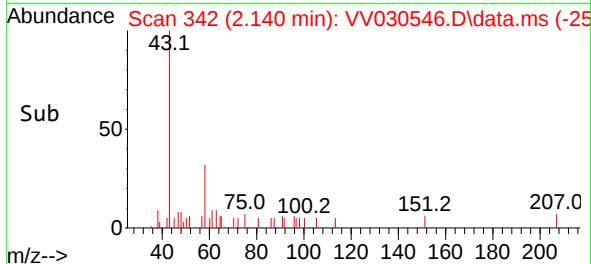
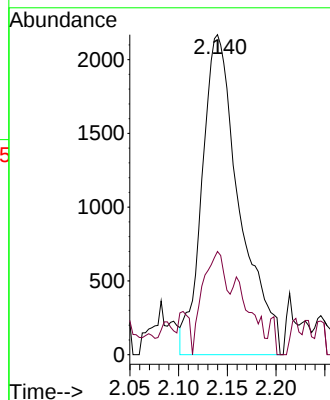
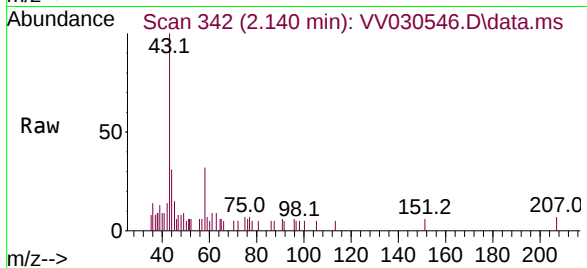
BHDX5

Tgt Ion: 43 Resp: 5811

Ion Ratio Lower Upper

43 100

58 20.4 0.0 40.8



#17

Methyl tert-butyl Ether

Concen: 0.143 ug/L

RT: 2.712 min Scan# 520

Delta R.T. -0.000 min

Lab File: VV030546.D

Acq: 13 Apr 2023 15:33

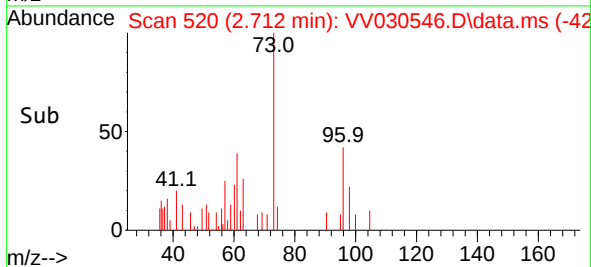
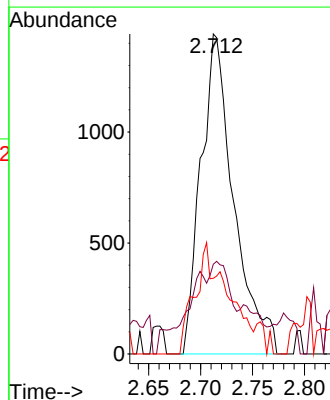
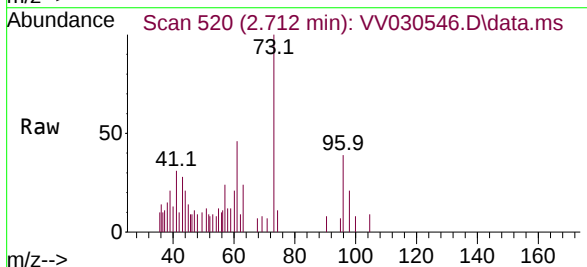
Tgt Ion: 73 Resp: 3178

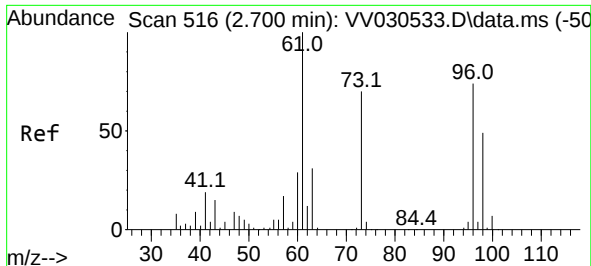
Ion Ratio Lower Upper

73 100

43 9.0 17.4 26.2#

57 18.3 18.3 27.5#

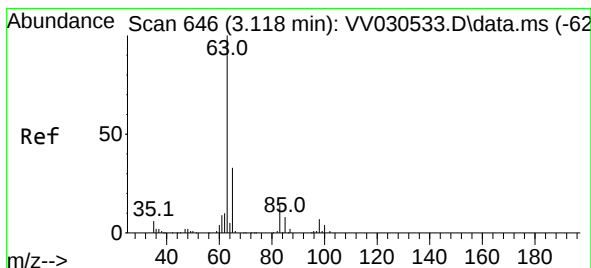
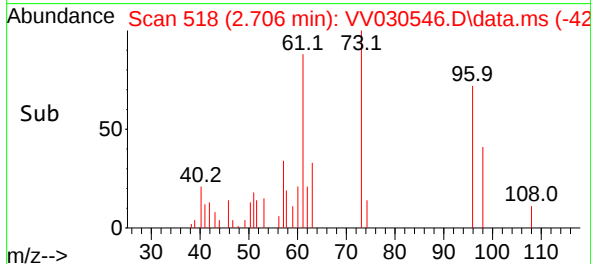
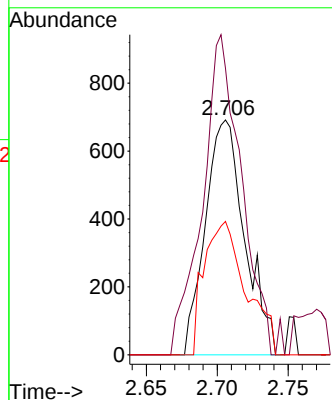
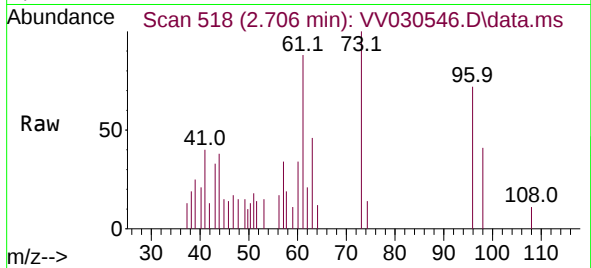




#18
trans-1,2-Dichloroethene
Concen: 0.121 ug/L
RT: 2.706 min Scan# 516
Delta R.T. 0.006 min
Lab File: VV030546.D
Acq: 13 Apr 2023 15:33

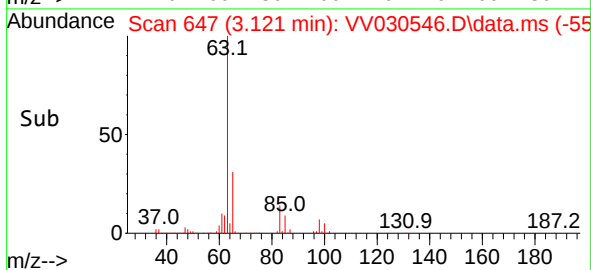
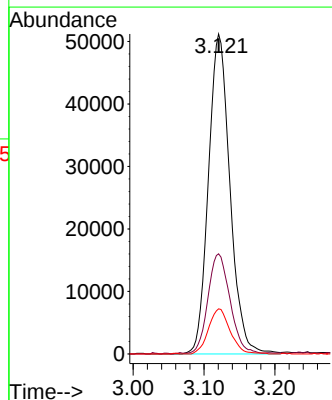
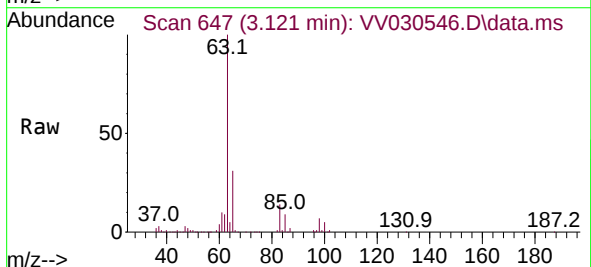
Instrument :
MSVOA_V
ClientSampleId :
BHD5

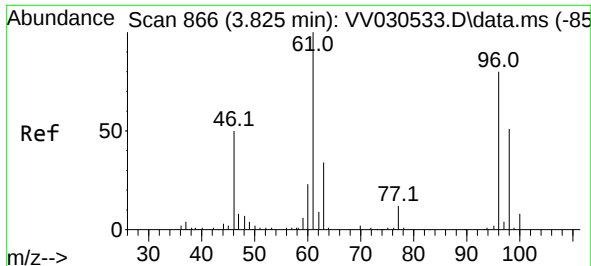
Tgt Ion: 96 Resp: 1341
Ion Ratio Lower Upper
96 100
61 122.0 101.7 188.9
98 56.8 45.8 85.2



#19
1,1-Dichloroethane
Concen: 5.043 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030546.D
Acq: 13 Apr 2023 15:33

Tgt Ion: 63 Resp: 108098
Ion Ratio Lower Upper
63 100
65 31.3 21.7 40.3
83 14.1 9.1 16.9





#22

cis-1,2-Dichloroethene

Concen: 8.936 ug/L

RT: 3.828 min Scan# 80

Delta R.T. 0.003 min

Lab File: VV030546.D

Acq: 13 Apr 2023 15:33

Instrument :

MSVOA_V

ClientSampleId :

BHDX5

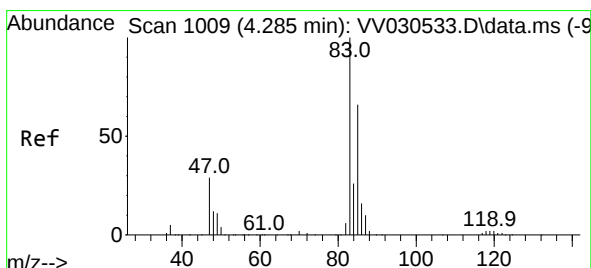
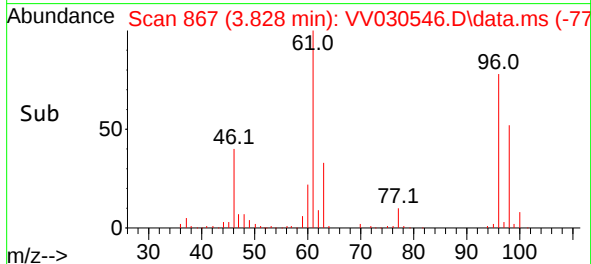
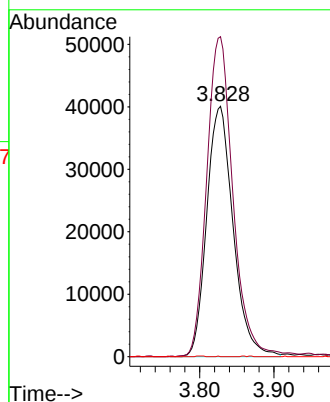
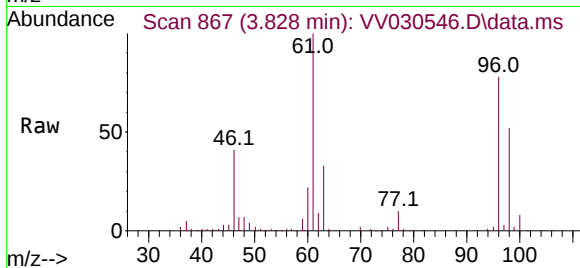
Tgt Ion: 96 Resp: 99161

Ion Ratio Lower Upper

96 100

61 127.8 92.0 170.8

68 0.0 0.0 0.0



#25

Chloroform

Concen: 1.041 ug/L

RT: 4.291 min Scan# 1011

Delta R.T. 0.006 min

Lab File: VV030546.D

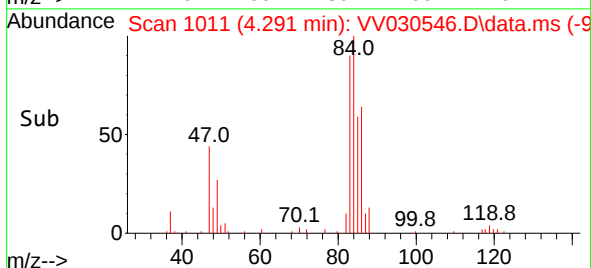
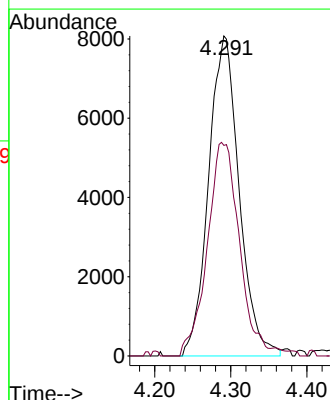
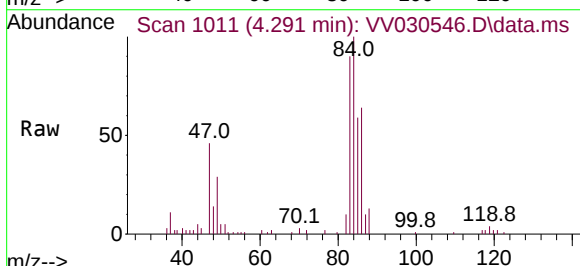
Acq: 13 Apr 2023 15:33

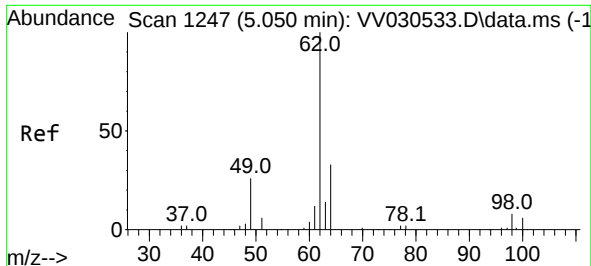
Tgt Ion: 83 Resp: 22556

Ion Ratio Lower Upper

83 100

85 65.8 47.6 88.4





#27

1,2-Dichloroethane

Concen: 0.170 ug/L

RT: 5.063 min Scan# 11

Delta R.T. 0.013 min

Lab File: VV030546.D

Acq: 13 Apr 2023 15:33

Instrument :

MSVOA_V

ClientSampleId :

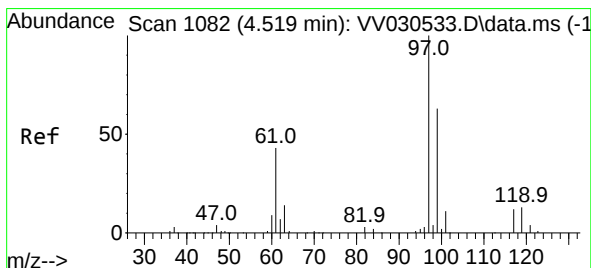
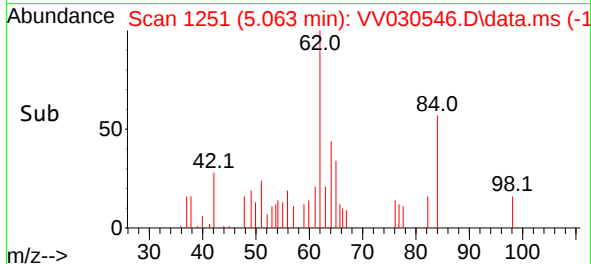
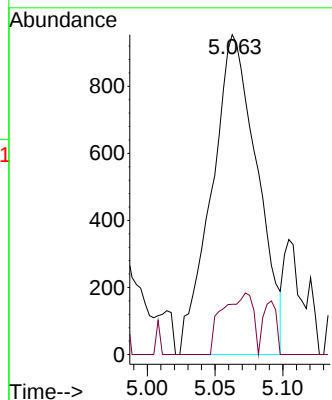
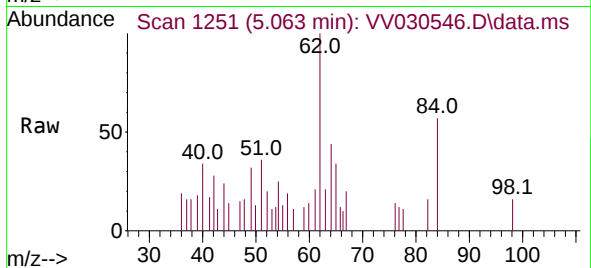
BHDX5

Tgt Ion: 62 Resp: 2231

Ion Ratio Lower Upper

62 100

98 15.7 7.8 11.8#



#29

1,1,1-Trichloroethane

Concen: 0.653 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. 0.006 min

Lab File: VV030546.D

Acq: 13 Apr 2023 15:33

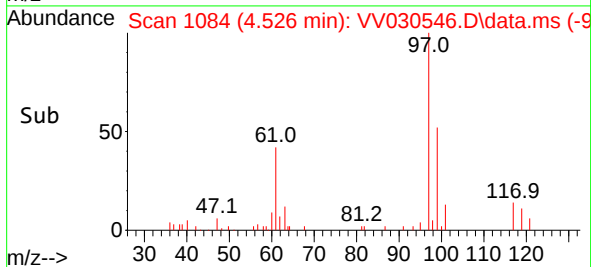
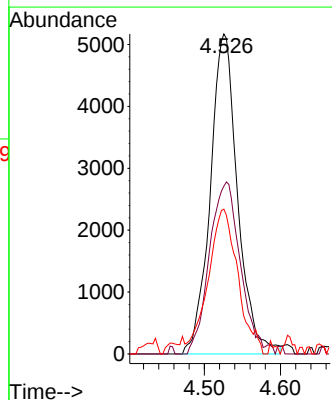
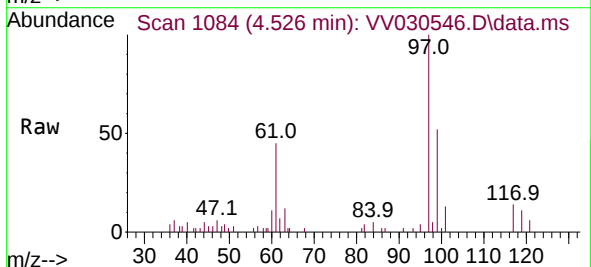
Tgt Ion: 97 Resp: 12948

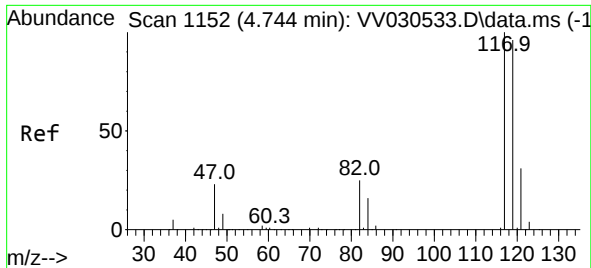
Ion Ratio Lower Upper

97 100

99 60.2 50.9 76.3

61 48.7 35.9 53.9

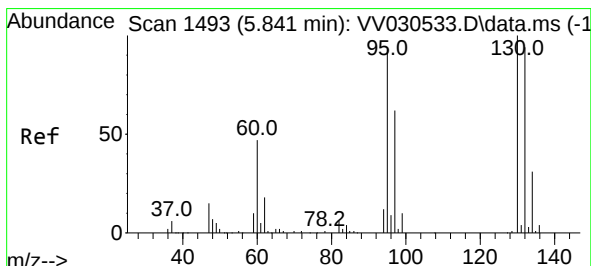
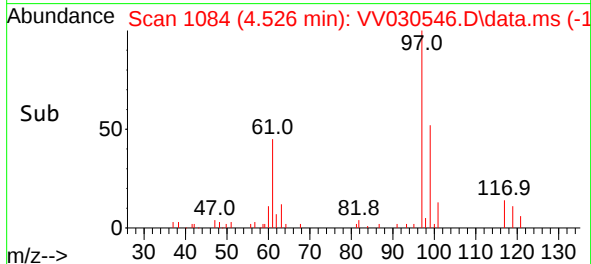
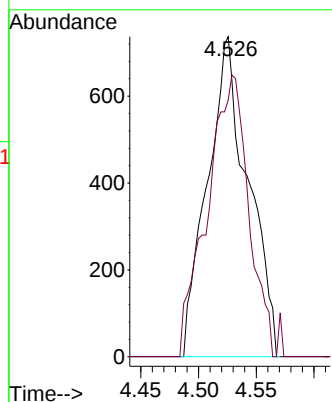
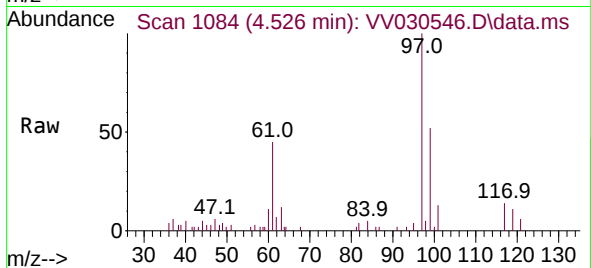




#31
Carbon tetrachloride
Concen: 0.100 ug/L
RT: 4.526 min Scan# 1084
Delta R.T. -0.219 min
Lab File: VV030546.D
Acq: 13 Apr 2023 15:33

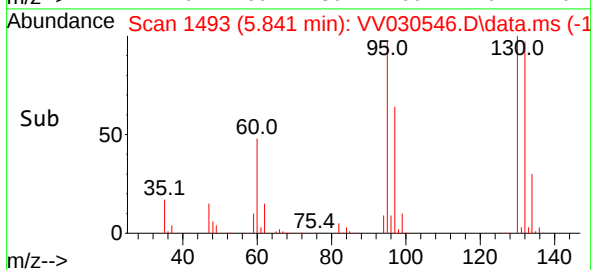
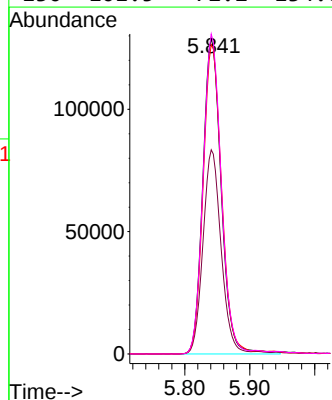
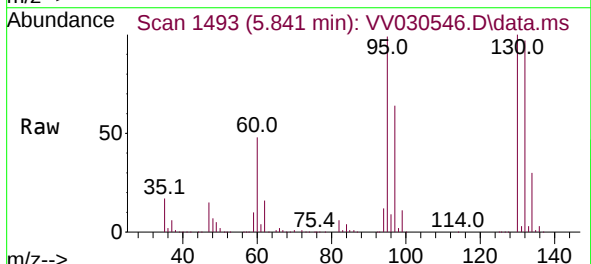
Instrument :
MSVOA_V
ClientSampleId :
BHD5

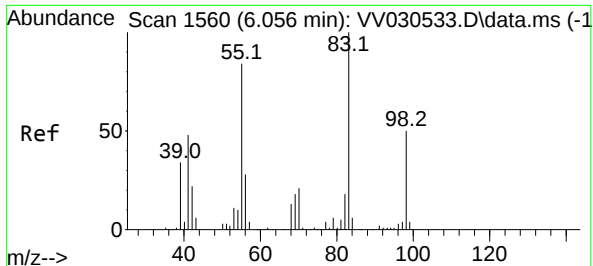
Tgt Ion:117 Resp: 1803
Ion Ratio Lower Upper
117 100
119 89.5 76.2 114.4



#34
Trichloroethene
Concen: 21.466 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VV030546.D
Acq: 13 Apr 2023 15:33

Tgt Ion: 95 Resp: 253532
Ion Ratio Lower Upper
95 100
97 64.7 44.2 82.2
132 98.1 69.5 129.1
130 101.5 72.2 134.0





#35

Methylcyclohexane

Concen: 0.612 ug/L

RT: 6.001 min Scan# 11

Delta R.T. -0.055 min

Lab File: VV030546.D

Acq: 13 Apr 2023 15:33

Instrument :

MSVOA_V

ClientSampleId :

BHDX5

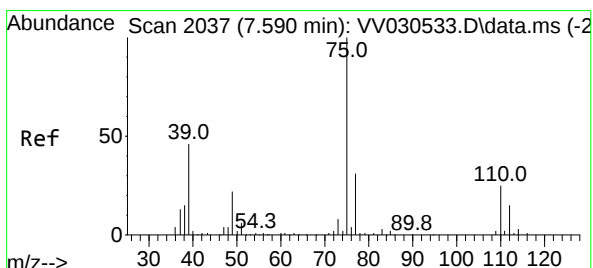
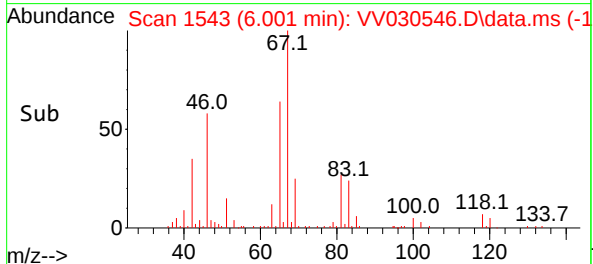
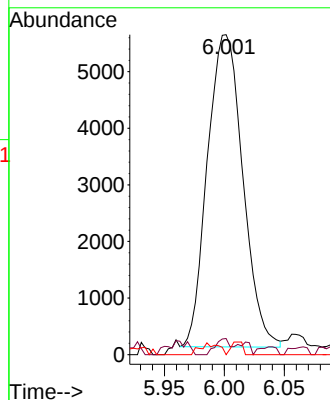
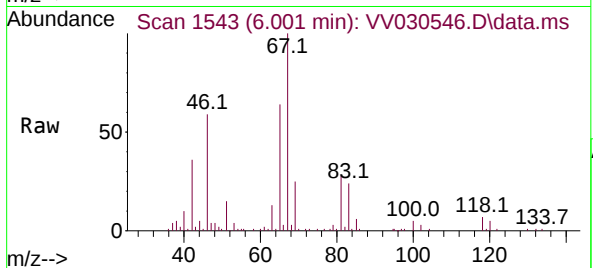
Tgt Ion: 83 Resp: 11354

Ion Ratio Lower Upper

83 100

55 2.2 66.6 100.0#

98 1.9 38.6 58.0#



#44

trans-1,3-Dichloropropene

Concen: 0.092 ug/L

RT: 7.558 min Scan# 2027

Delta R.T. -0.032 min

Lab File: VV030546.D

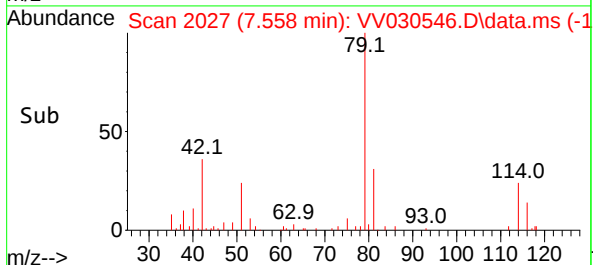
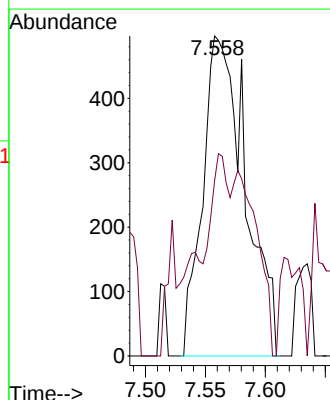
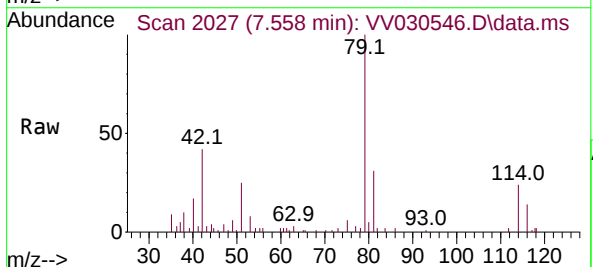
Acq: 13 Apr 2023 15:33

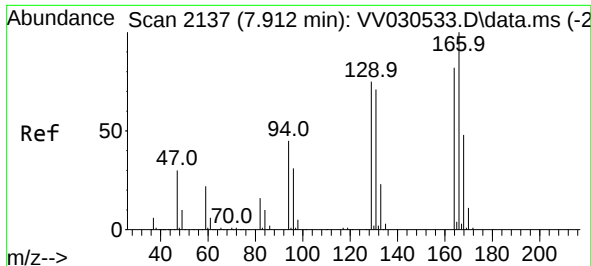
Tgt Ion: 75 Resp: 1235

Ion Ratio Lower Upper

75 100

77 54.7 21.2 39.4#

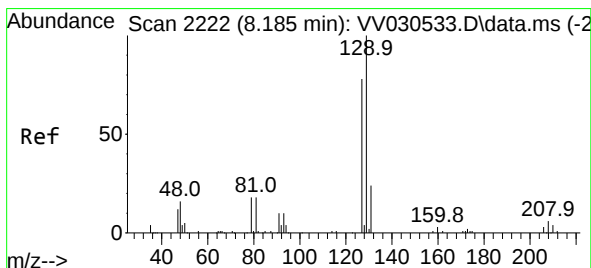
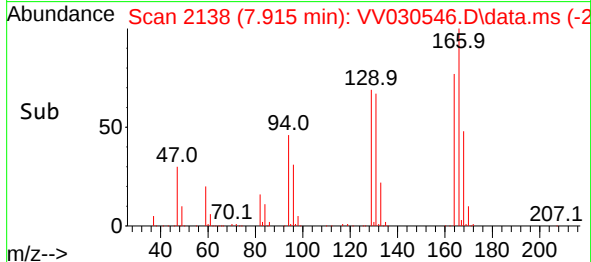
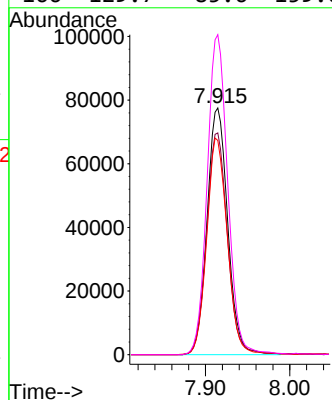
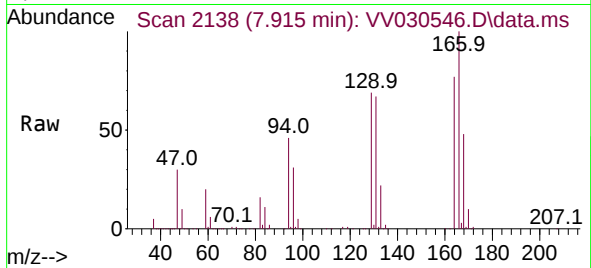




#47
Tetrachloroethene
Concen: 12.720 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. 0.003 min
Lab File: VV030546.D
Acq: 13 Apr 2023 15:33

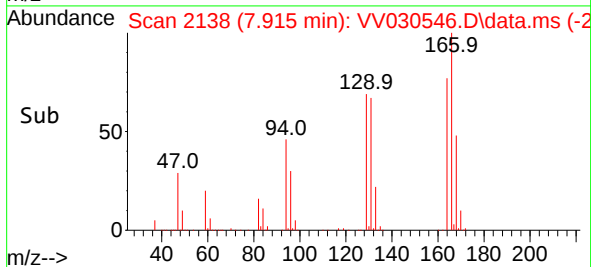
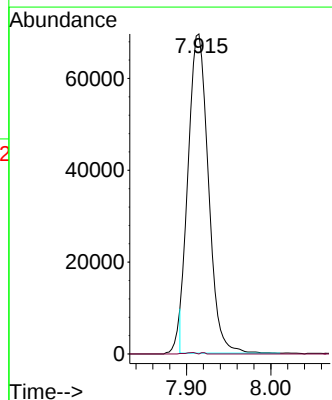
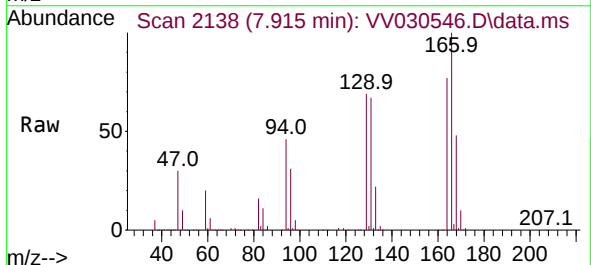
Instrument :
MSVOA_V
ClientSampleId :
BHD5

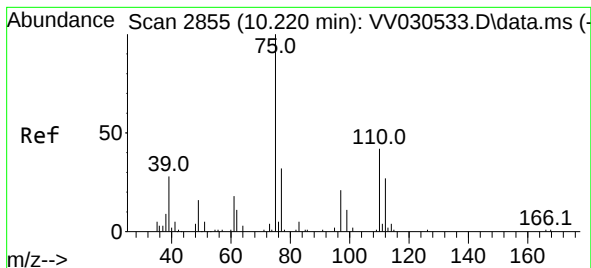
Tgt Ion:164 Resp: 132592
Ion Ratio Lower Upper
164 100
129 89.9 60.8 112.8
131 86.8 61.7 114.7
166 129.7 85.6 159.0



#49
Dibromochloromethane
Concen: 12.229 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. -0.270 min
Lab File: VV030546.D
Acq: 13 Apr 2023 15:33

Tgt Ion:129 Resp: 115239
Ion Ratio Lower Upper
129 100
127 0.0 52.7 97.9#





#61

1,2,3-Trichloropropane

Concen: 0.121 ug/L

RT: 10.223 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV030546.D

Acq: 13 Apr 2023 15:33

Instrument :

MSVOA_V

ClientSampleId :

BHDX5

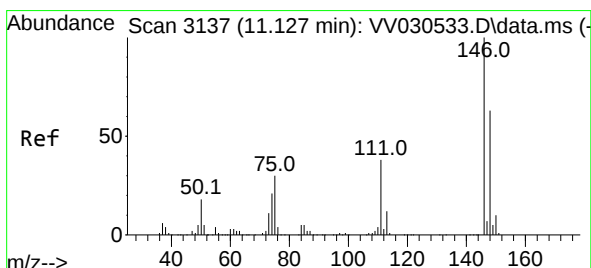
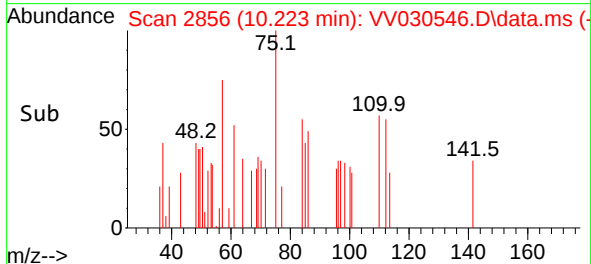
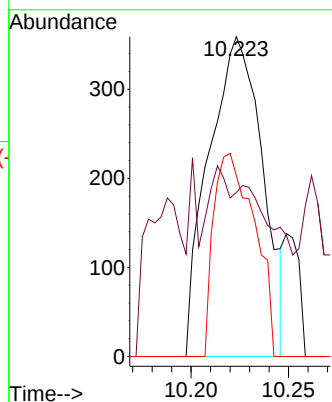
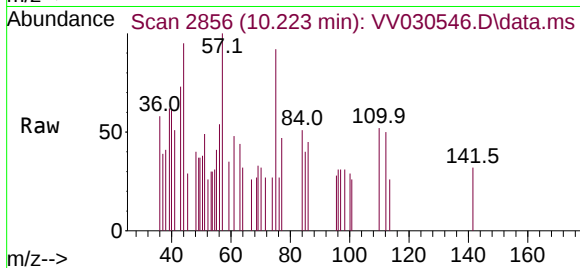
Tgt Ion: 75 Resp: 690

Ion Ratio Lower Upper

75 100

77 33.5 26.0 39.0

110 48.0 31.6 47.4#



#64

1,3-Dichlorobenzene

Concen: 0.070 ug/L

RT: 11.130 min Scan# 3138

Delta R.T. 0.003 min

Lab File: VV030546.D

Acq: 13 Apr 2023 15:33

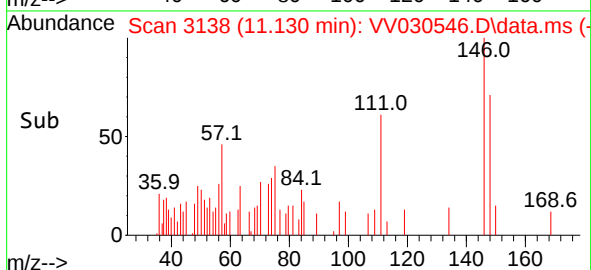
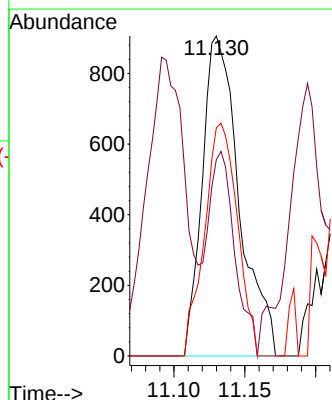
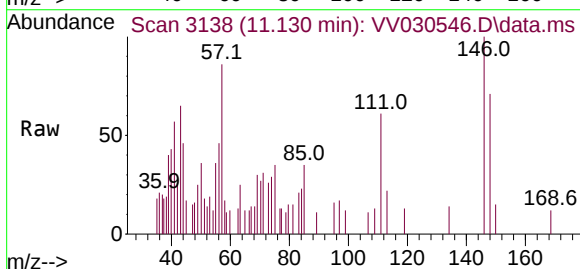
Tgt Ion:146 Resp: 1645

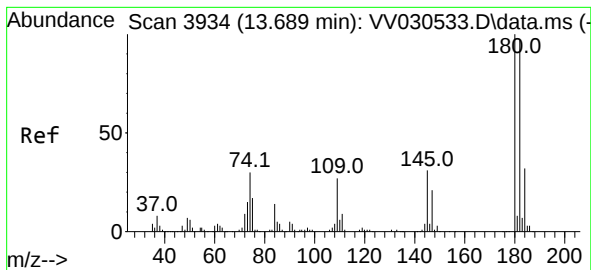
Ion Ratio Lower Upper

146 100

111 61.4 27.0 50.2#

148 71.3 44.2 82.2





#72

1,2,3-Trichlorobenzene

Concen: 0.250 ug/L

RT: 13.715 min Scan# 3942

Delta R.T. 0.026 min

Lab File: VV030546.D

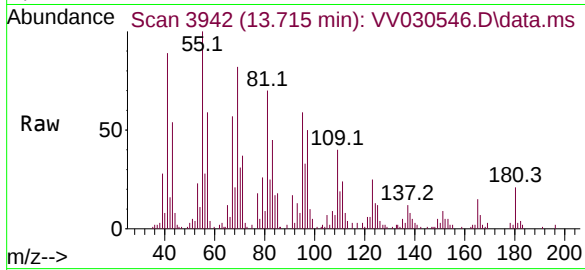
Acq: 13 Apr 2023 15:33

Instrument :

MSVOA_V

ClientSampleId :

BHDX5



Tgt Ion:180 Resp: 3020

Ion Ratio Lower Upper

180 100

182 0.0 76.6 115.0#

145 4.6 25.0 37.4#

