

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102623\
 Data File : VW032660.D
 Acq On : 26 Oct 2023 14:17
 Operator : SY/MD
 Sample : 05009-18
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A4AA3

Quant Time: Oct 27 05:35:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 27 05:30:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	98174	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	111186	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	55832	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	31178	3.905	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.000%
7) Chloroethane-d5	1.532	69	30995	4.782	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.600%
11) 1,1-Dichloroethene-d2	2.060	65	13917	4.133	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.600%
20) 2-Butanone-d5	3.812	46	88508	43.821	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.640%
24) Chloroform-d	4.253	84	66319	4.708	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.200%
26) 1,2-Dichloroethane-d4	4.947	65	30915	4.634	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.600%
32) Benzene-d6	4.963	84	116396	3.558	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.200%
36) 1,2-Dichloropropane-d6	5.992	67	37730	3.481	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	69.600%
41) Toluene-d8	7.246	98	121635	4.066	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.400%
43) trans-1,3-Dichloroprop...	7.558	79	15349	3.996	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.000%
46) 2-Hexanone-d5	8.027	63	72525	40.130	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	80.260%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	32689	4.312	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.200%
66) 1,2-Dichlorobenzene-d4	11.564	152	42831	4.134	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.105	85	35292	3.226	ug/L	99
5) Vinyl chloride	1.282	62	37443	3.560	ug/L	100
8) Chloroethane	1.548	64	84394	13.327	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	75285	9.849	ug/L	99
12) 1,1-Dichloroethene	2.069	96	15258	2.119	ug/L #	76
13) Acetone	2.140	43	267955	172.125	ug/L	91
15) Methyl Acetate	2.384	43	27416	7.823	ug/L	92
18) trans-1,2-Dichloroethene	2.696	96	18773	2.276	ug/L	95
19) 1,1-Dichloroethane	3.114	63	26968	1.738	ug/L	97
22) cis-1,2-Dichloroethene	3.818	96	28506	3.210	ug/L	97
23) Bromochloromethane	4.153	128	17383	4.653	ug/L	93
25) Chloroform	4.278	83	107552	7.066	ug/L	98
27) 1,2-Dichloroethane	5.050	62	17021	1.893	ug/L	99
29) 1,1,1-Trichloroethane	4.516	97	24107	1.595	ug/L	99
31) Carbon tetrachloride	4.738	117	30611	2.393	ug/L	98
34) Trichloroethene	5.838	95	17722	1.658	ug/L	97
39) cis-1,3-Dichloropropene	6.957	75	48176	3.234	ug/L	98
40) 4-Methyl-2-pentanone	7.162	43	291556	44.008	ug/L	98
44) trans-1,3-Dichloropropene	7.587	75	20887	1.706	ug/L	98

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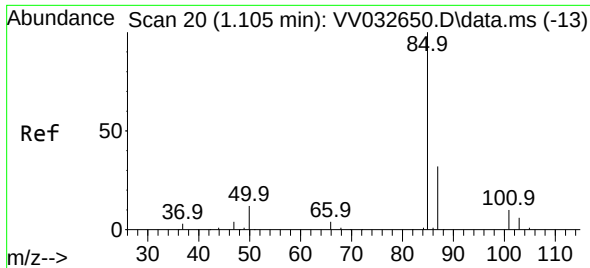
Instrument :
 MSVOA_V
 ClientSampleId :
 A4AA3

Quant Time: Oct 27 05:35:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	7.773	97	12358	1.673	ug/L	93
47) Tetrachloroethene	7.908	164	19631	2.422	ug/L	96
50) 1,2-Dibromoethane	8.288	107	26818	3.839	ug/L	97
51) Chlorobenzene	8.815	112	127485	4.745	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.182	83	10431	1.284	ug/L	95
59) Bromoform	9.667	173	10010	2.465	ug/L	96
63) 1,2,4-Trimethylbenzene	10.857	105	105264	2.990	ug/L	98
64) 1,3-Dichlorobenzene	11.120	146	49940	2.409	ug/L	98
65) 1,4-Dichlorobenzene	11.210	146	34008	1.635	ug/L	98
70) 1,2,4-trichlorobenzene	13.201	180	46183	3.430	ug/L	98
72) 1,2,3-Trichlorobenzene	13.683	180	25713	2.216	ug/L	99

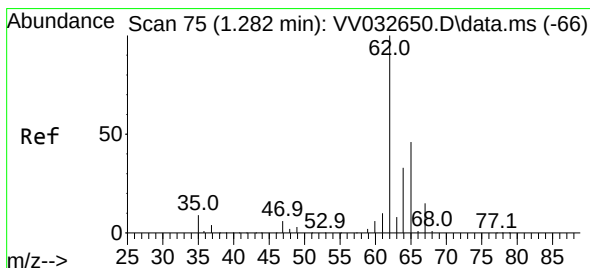
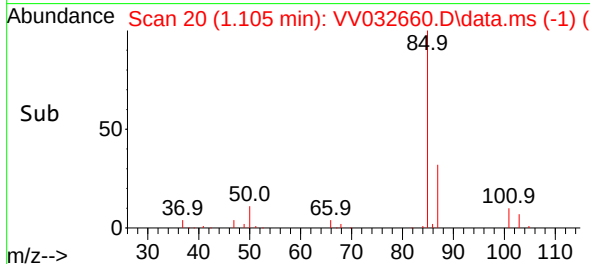
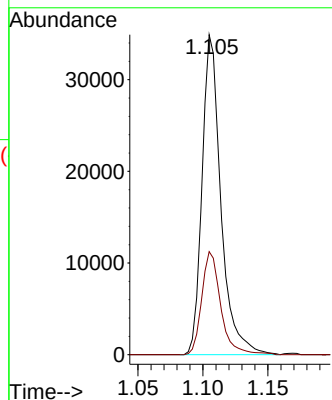
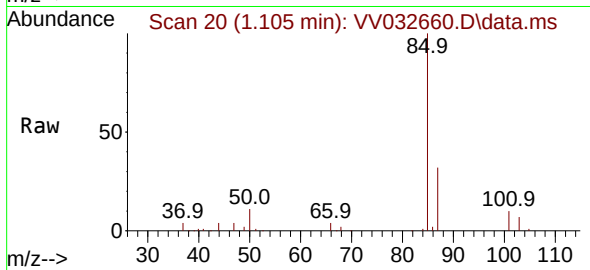
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 3.226 ug/L
 RT: 1.105 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VV032660.D
 Acq: 26 Oct 2023 14:17

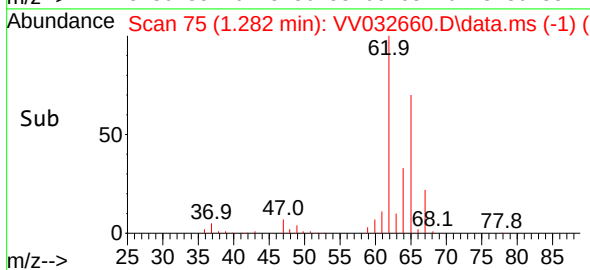
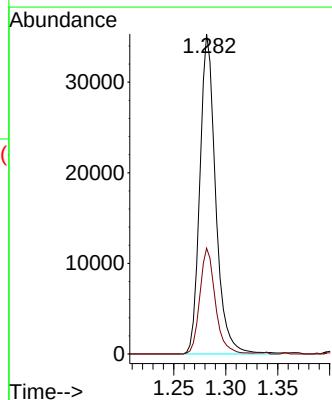
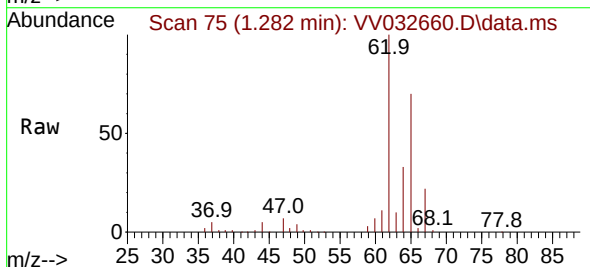
Instrument :
 MSVOA_V
 ClientSampleId :
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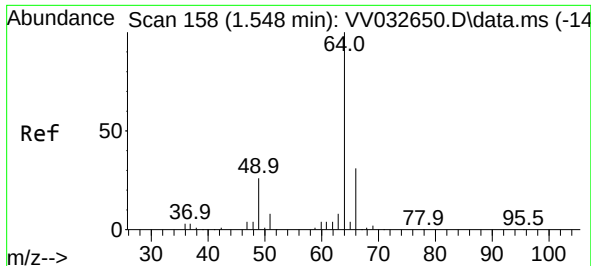
Tgt Ion: 85 Resp: 35292
 Ion Ratio Lower Upper
 85 100
 87 32.5 25.5 38.3



#5
 Vinyl chloride
 Concen: 3.560 ug/L
 RT: 1.282 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: VV032660.D
 Acq: 26 Oct 2023 14:17

Tgt Ion: 62 Resp: 37443
 Ion Ratio Lower Upper
 62 100
 64 33.1 23.1 42.9

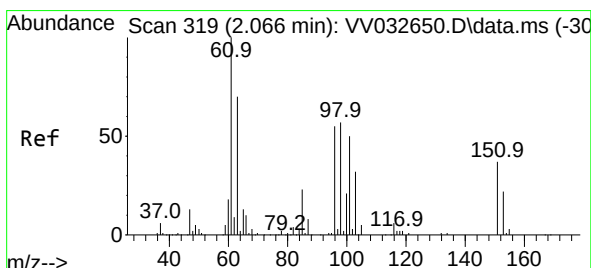
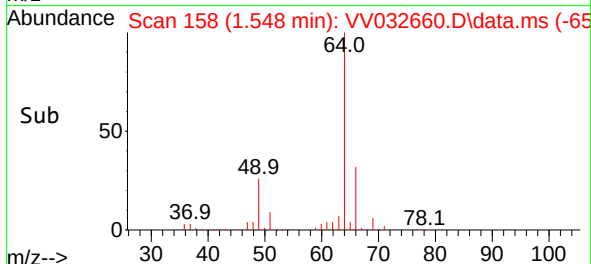
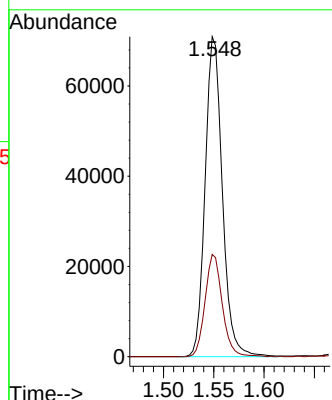
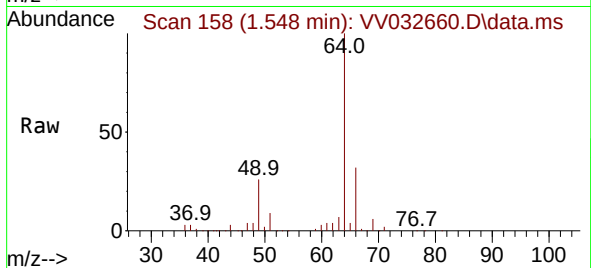




#8
Chloroethane
Concen: 13.327 ug/L
RT: 1.548 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

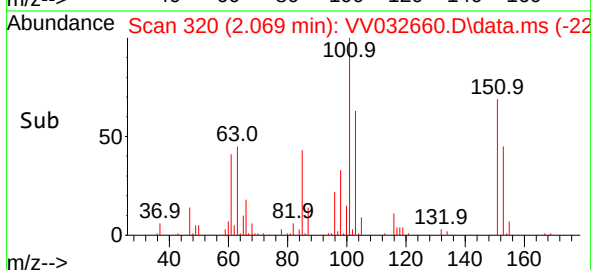
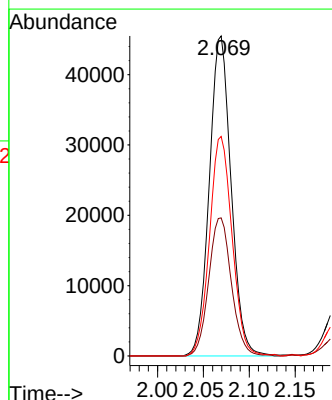
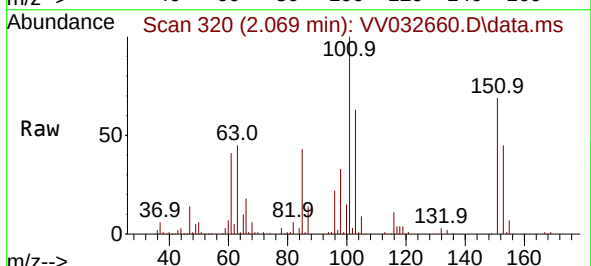
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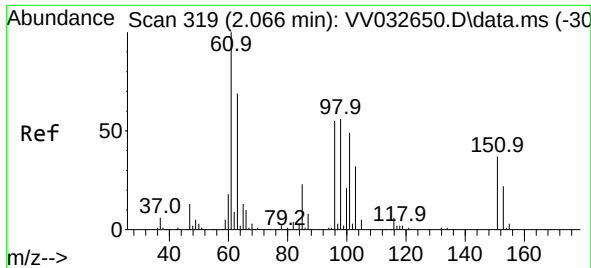
Tgt Ion: 64 Resp: 84394
Ion Ratio Lower Upper
64 100
66 31.9 22.6 42.0



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 9.849 ug/L
RT: 2.069 min Scan# 320
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion:101 Resp: 75285
Ion Ratio Lower Upper
101 100
85 44.9 35.0 52.6
151 71.2 56.6 84.8

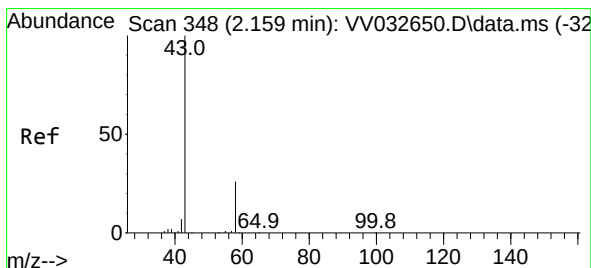
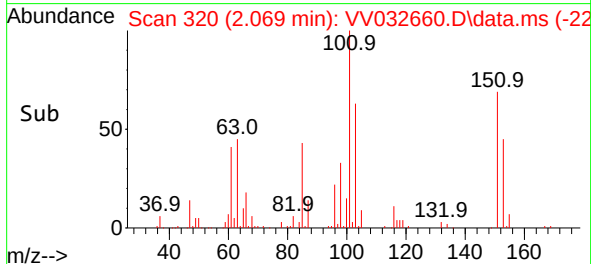
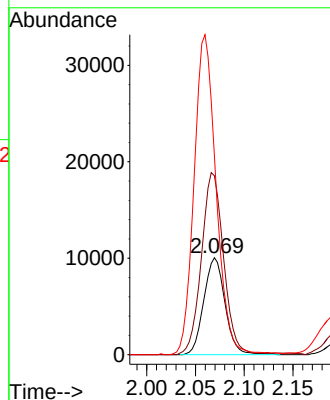
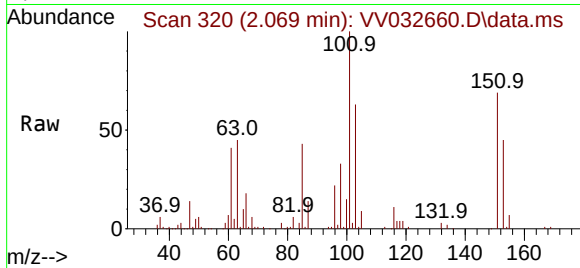




#12
1,1-Dichloroethene
Concen: 2.119 ug/L
RT: 2.069 min Scan# 319
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

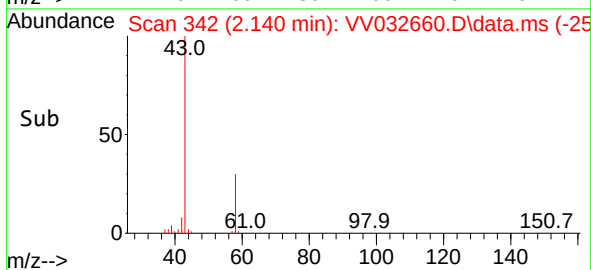
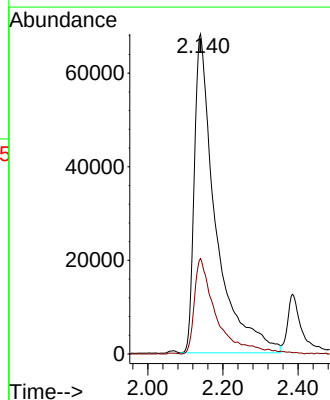
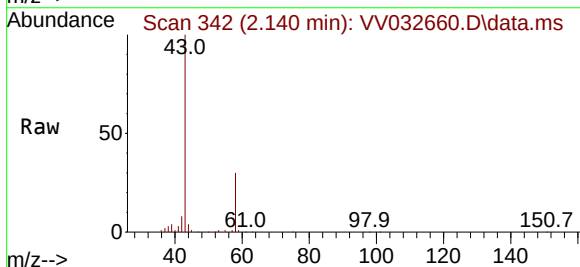
Instrument :
MSVOA_V
ClientSampleId :
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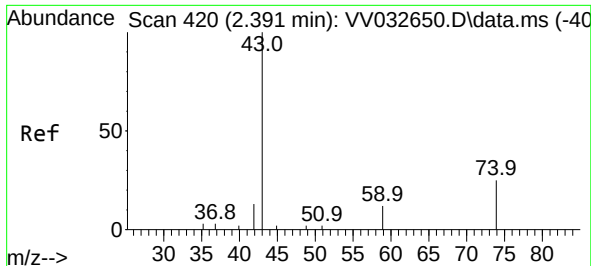
Tgt Ion: 96 Resp: 15258
Ion Ratio Lower Upper
96 100
61 184.6 127.3 236.3
63 204.7 98.3 182.7#



#13
Acetone
Concen: 172.125 ug/L
RT: 2.140 min Scan# 342
Delta R.T. -0.019 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion: 43 Resp: 267955
Ion Ratio Lower Upper
43 100
58 27.9 0.0 66.0

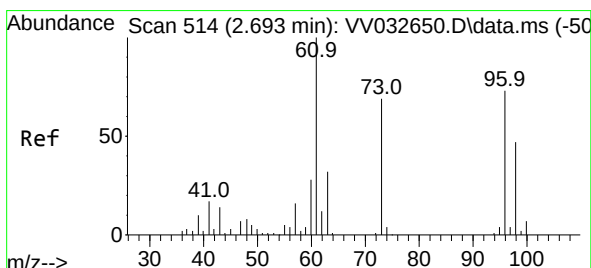
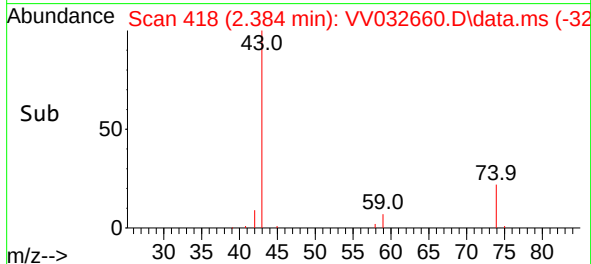
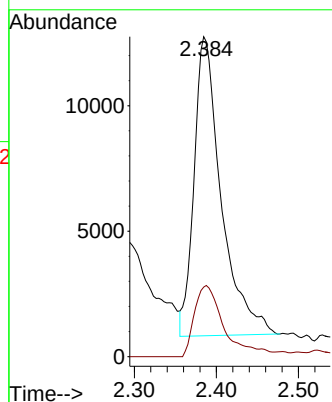
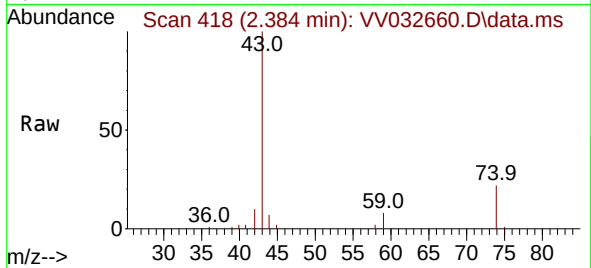




#15
Methyl Acetate
Concen: 7.823 ug/L
RT: 2.384 min Scan# 41
Delta R.T. -0.006 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

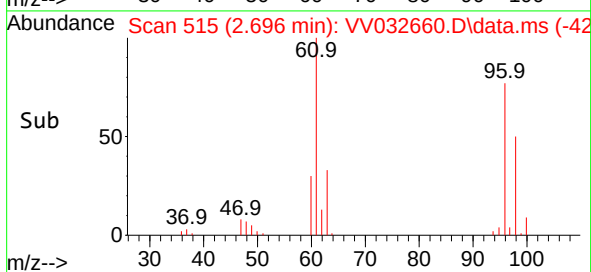
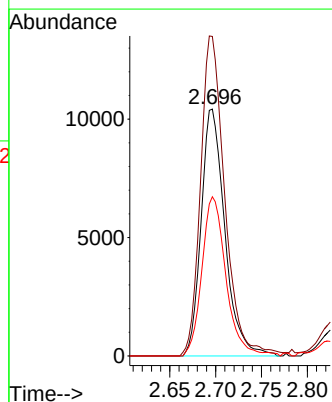
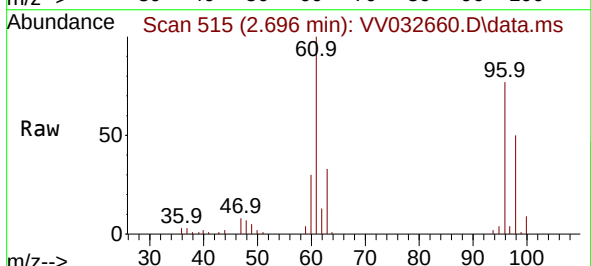
Instrument :
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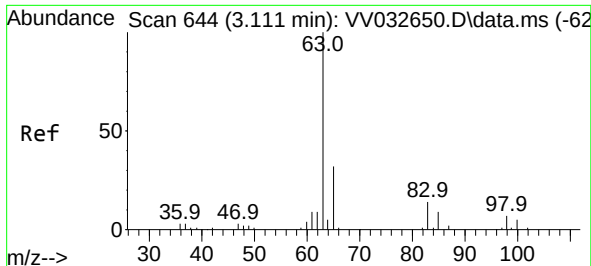
Tgt Ion: 43 Resp: 27416
Ion Ratio Lower Upper
43 100
74 26.1 18.0 27.0



#18
trans-1,2-Dichloroethene
Concen: 2.276 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion: 96 Resp: 18773
Ion Ratio Lower Upper
96 100
61 129.4 96.9 180.1
98 64.5 45.3 84.1





#19

1,1-Dichloroethane

Concen: 1.738 ug/L

RT: 3.114 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV032660.D

Acq: 26 Oct 2023 14:17

Instrument :

MSVOA_V

ClientSampleId :

A4AA3

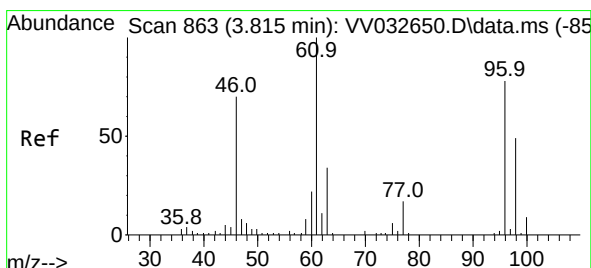
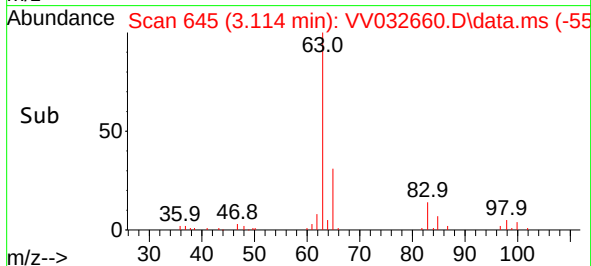
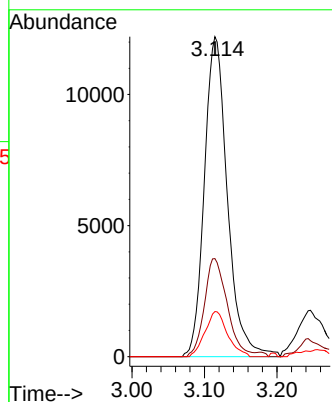
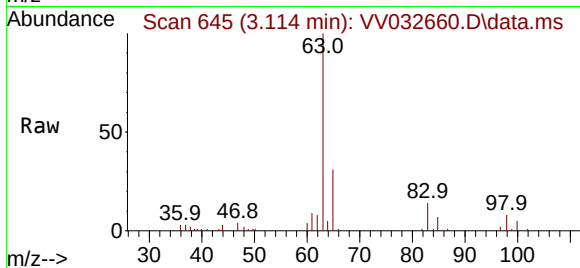
Tgt Ion: 63 Resp: 26968

Ion Ratio Lower Upper

63 100

65 30.7 22.3 41.5

83 14.1 9.0 16.6



#22

cis-1,2-Dichloroethene

Concen: 3.210 ug/L

RT: 3.818 min Scan# 864

Delta R.T. 0.003 min

Lab File: VV032660.D

Acq: 26 Oct 2023 14:17

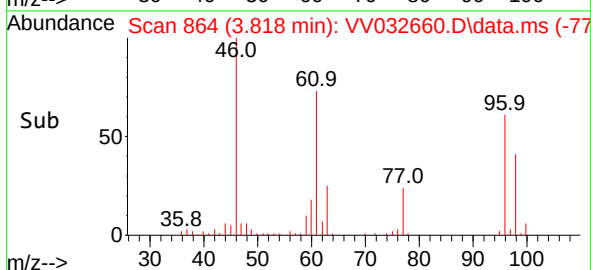
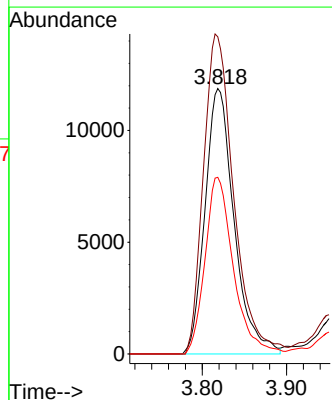
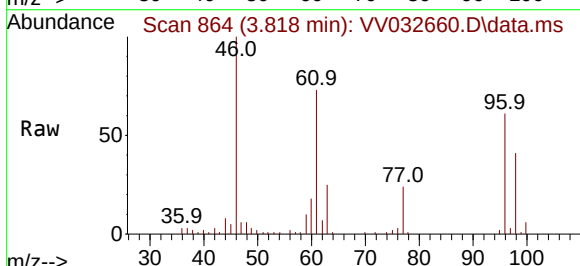
Tgt Ion: 96 Resp: 28506

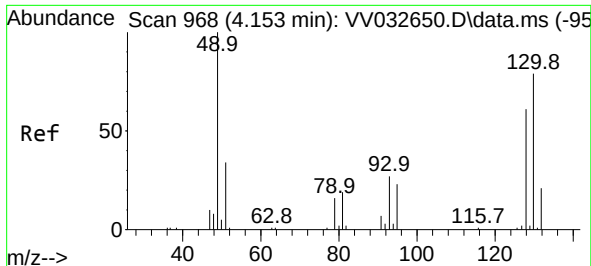
Ion Ratio Lower Upper

96 100

61 119.4 85.8 159.4

98 66.5 44.0 81.6

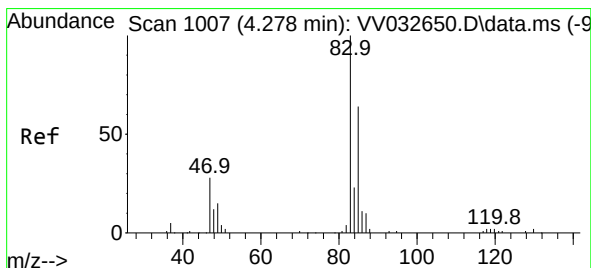
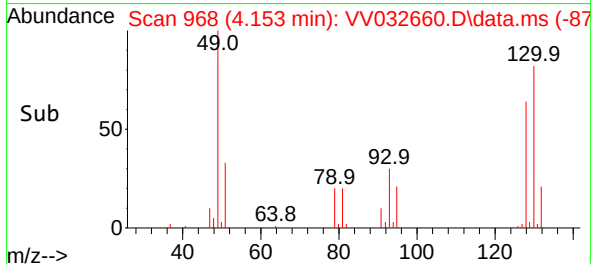
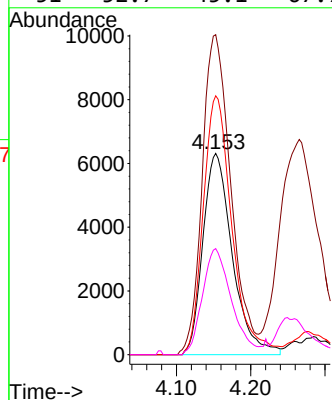
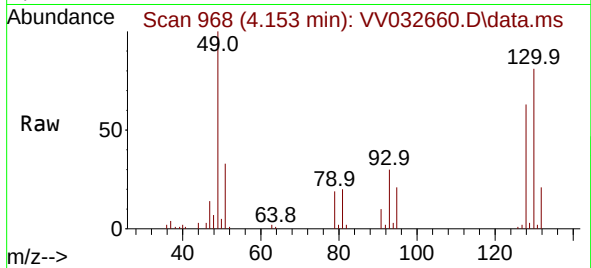




#23
Bromochloromethane
Concen: 4.653 ug/L
RT: 4.153 min Scan# 968
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

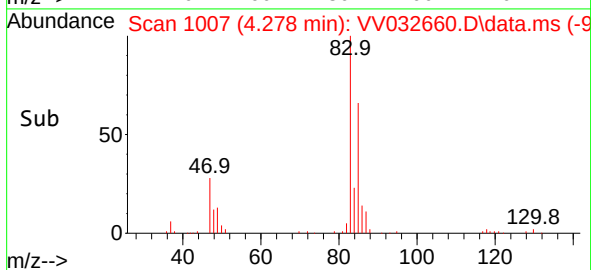
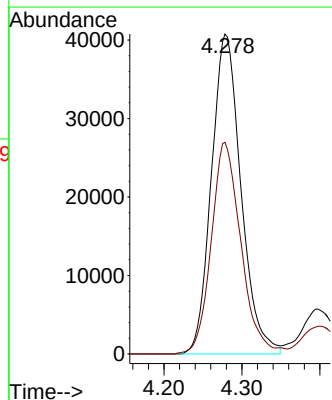
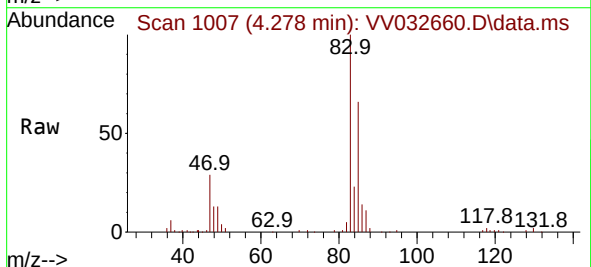
Instrument :
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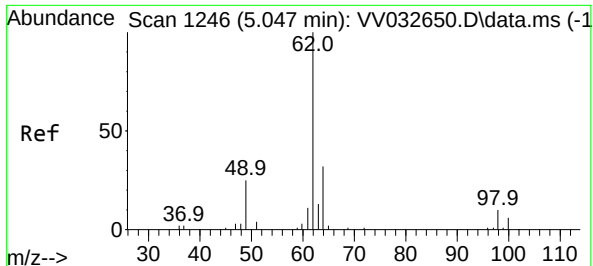
Tgt Ion:128 Resp: 17383
Ion Ratio Lower Upper
128 100
49 159.0 121.2 225.0
130 128.7 88.2 163.8
51 52.7 45.1 67.7



#25
Chloroform
Concen: 7.066 ug/L
RT: 4.278 min Scan# 1007
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion: 83 Resp: 107552
Ion Ratio Lower Upper
83 100
85 66.2 45.4 84.4

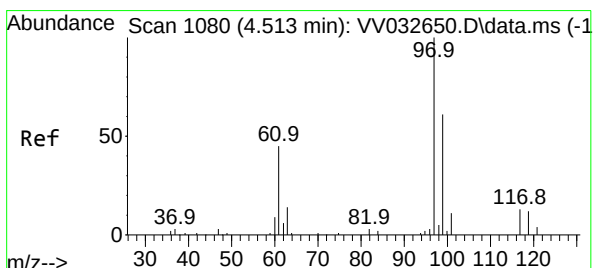
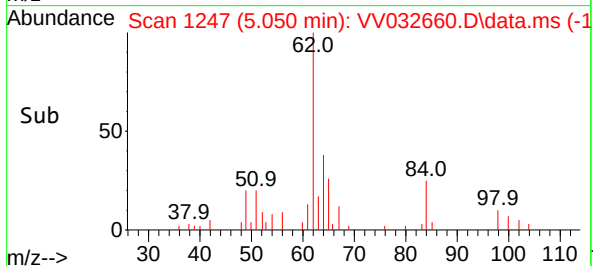
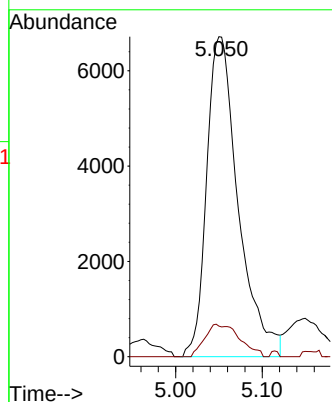
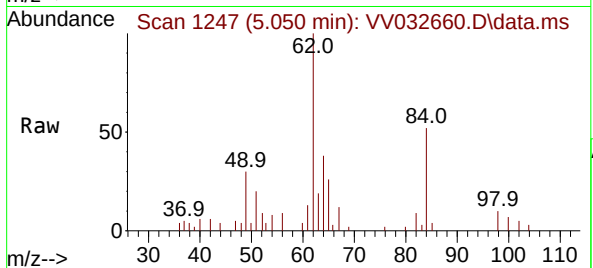




#27
1,2-Dichloroethane
Concen: 1.893 ug/L
RT: 5.050 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

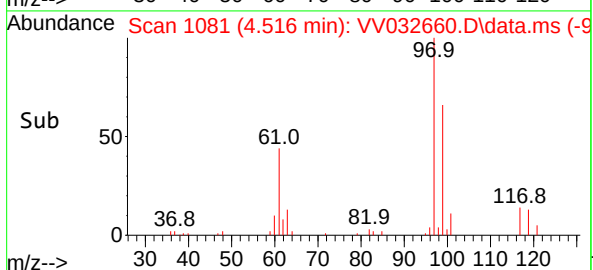
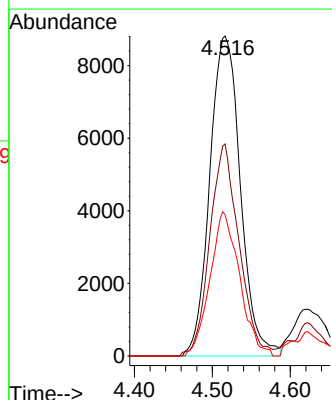
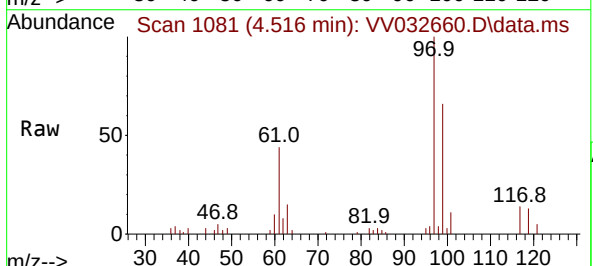
Instrument :
MSVOA_V
ClientSampleId :
A4AA3

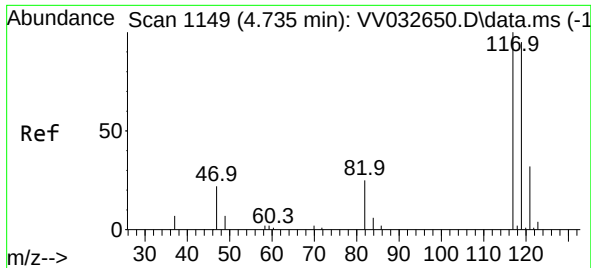
Tgt Ion: 62 Resp: 17021
Ion Ratio Lower Upper
62 100
98 9.6 7.8 11.8



#29
1,1,1-Trichloroethane
Concen: 1.595 ug/L
RT: 4.516 min Scan# 1081
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion: 97 Resp: 24107
Ion Ratio Lower Upper
97 100
99 63.1 50.1 75.1
61 43.6 35.1 52.7

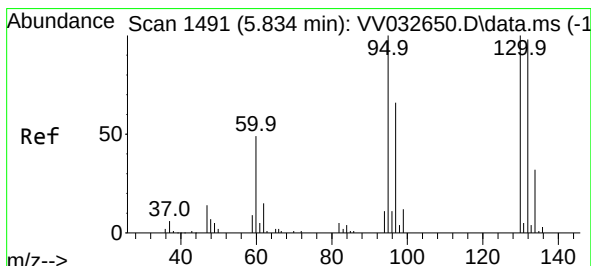
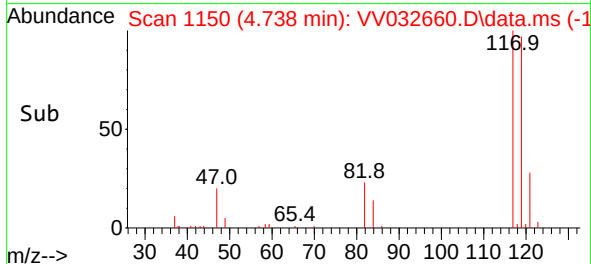
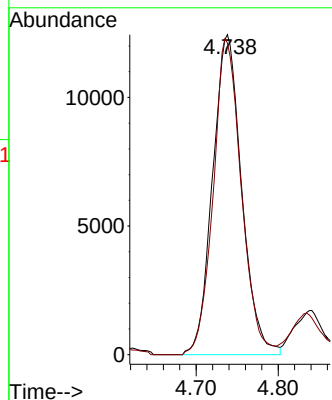
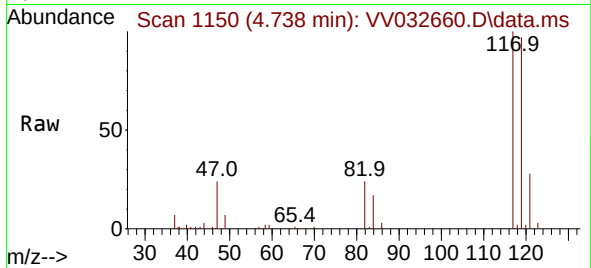




#31
Carbon tetrachloride
Concen: 2.393 ug/L
RT: 4.738 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

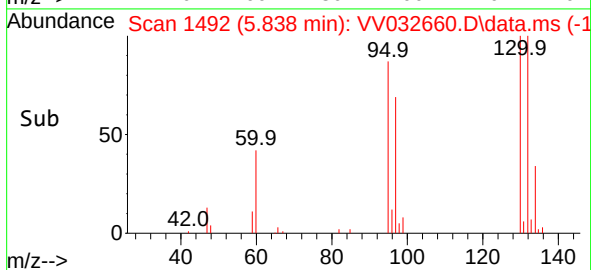
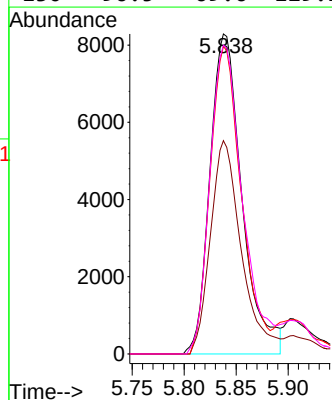
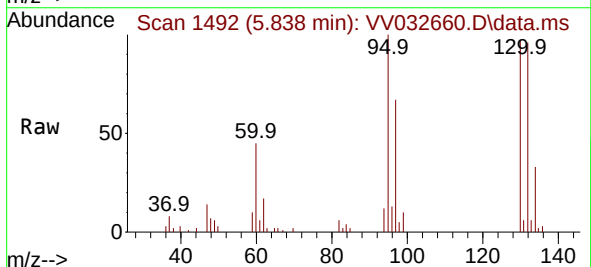
Instrument :
MSVOA_V
ClientSampleId :
A4AA3

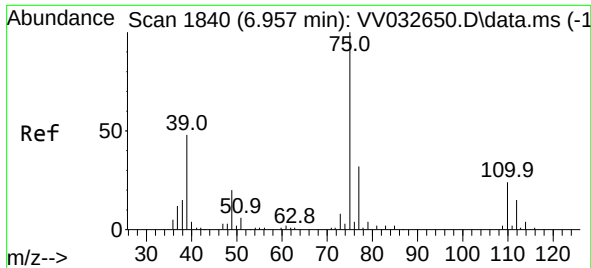
Tgt Ion:117 Resp: 30611
Ion Ratio Lower Upper
117 100
119 95.3 77.6 116.4



#34
Trichloroethene
Concen: 1.658 ug/L
RT: 5.838 min Scan# 1492
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion: 95 Resp: 17722
Ion Ratio Lower Upper
95 100
97 66.7 45.7 84.9
132 96.1 70.3 130.5
130 96.5 69.6 129.2





#39

cis-1,3-Dichloropropene

Concen: 3.234 ug/L

RT: 6.957 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV032660.D

Acq: 26 Oct 2023 14:17

Instrument :

MSVOA_V

ClientSampleId :

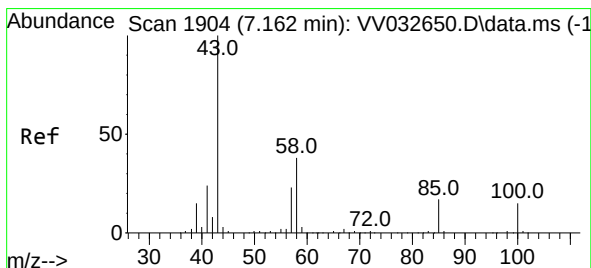
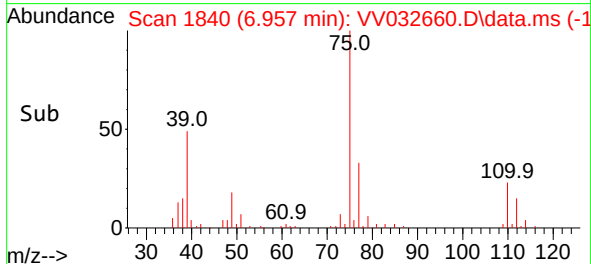
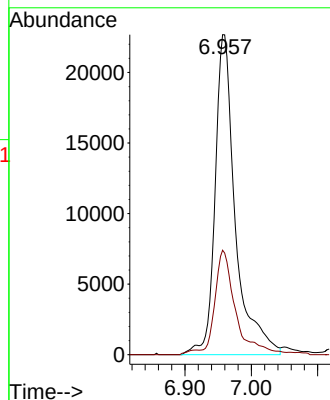
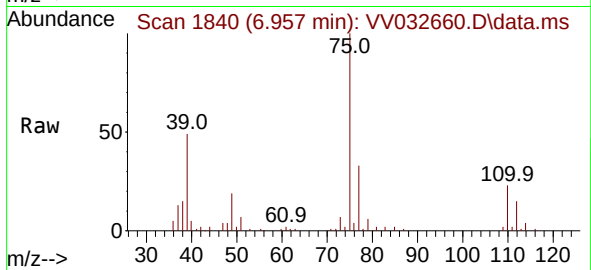
A4AA3

Tgt Ion: 75 Resp: 48176

Ion Ratio Lower Upper

75 100

77 32.7 22.2 41.2



#40

4-Methyl-2-pentanone

Concen: 44.008 ug/L

RT: 7.162 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VV032660.D

Acq: 26 Oct 2023 14:17

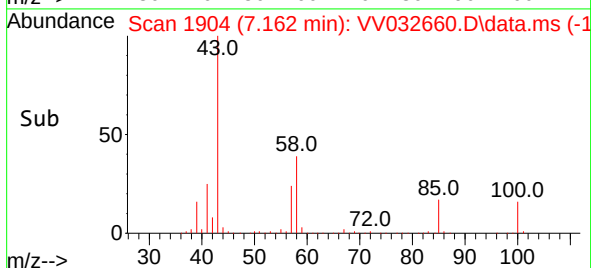
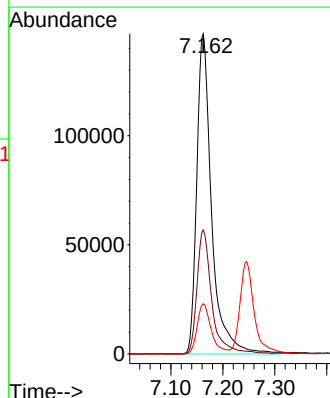
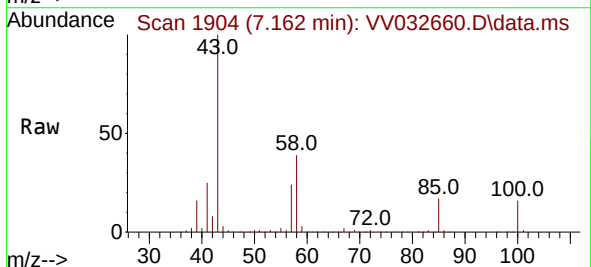
Tgt Ion: 43 Resp: 291556

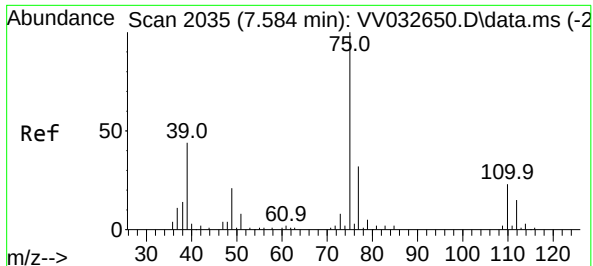
Ion Ratio Lower Upper

43 100

58 38.7 31.9 47.9

100 15.0 11.3 16.9

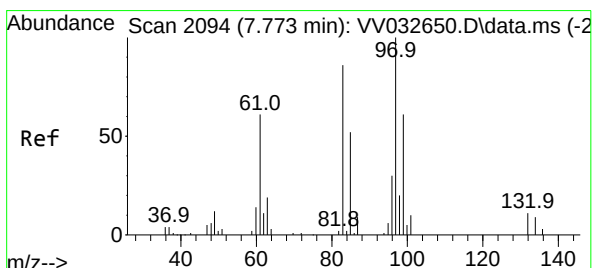
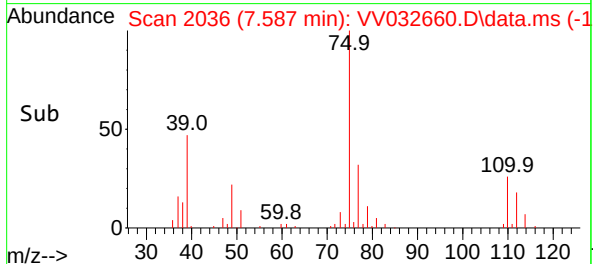
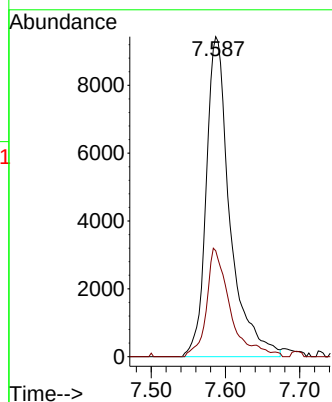
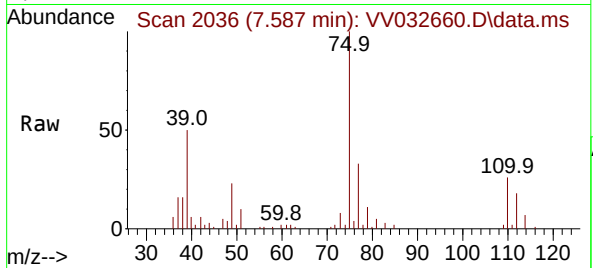




#44
trans-1,3-Dichloropropene
Concen: 1.706 ug/L
RT: 7.587 min Scan# 2036
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

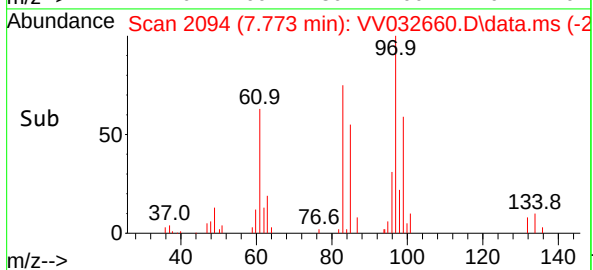
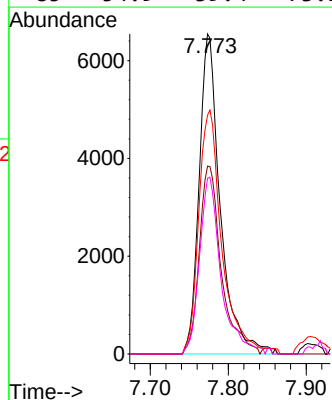
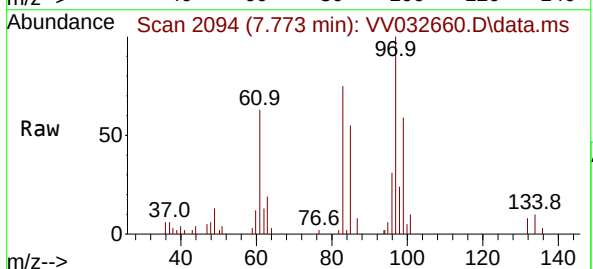
Instrument :
MSVOA_V
ClientSampleId :
A4AA3

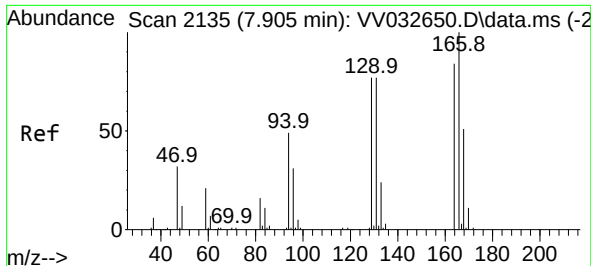
Tgt Ion: 75 Resp: 20887
Ion Ratio Lower Upper
75 100
77 33.1 22.5 41.7



#45
1,1,2-Trichloroethane
Concen: 1.673 ug/L
RT: 7.773 min Scan# 2094
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion: 97 Resp: 12358
Ion Ratio Lower Upper
97 100
99 58.7 42.8 79.4
83 74.7 60.9 113.1
85 54.9 39.4 73.2





#47

Tetrachloroethene

Concen: 2.422 ug/L

RT: 7.908 min Scan# 2135

Delta R.T. 0.003 min

Lab File: VV032660.D

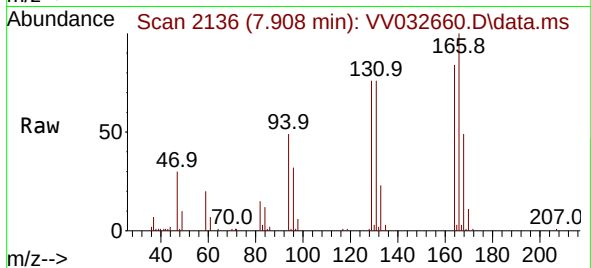
Acq: 26 Oct 2023 14:17

Instrument :

MSVOA_V

ClientSampleId :

A4AA3



Tgt Ion:164 Resp: 19631

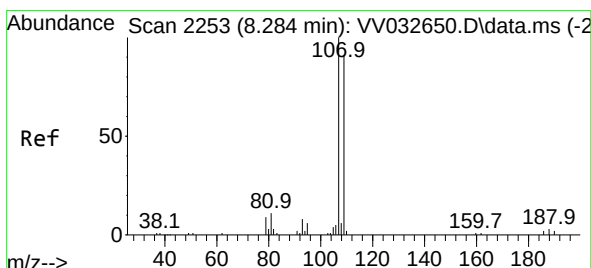
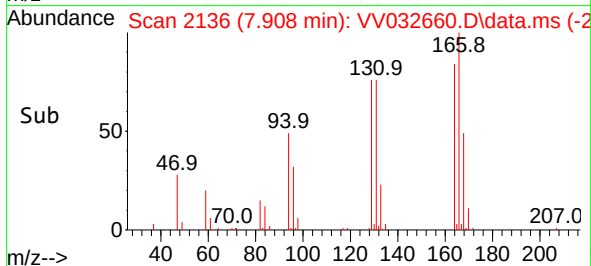
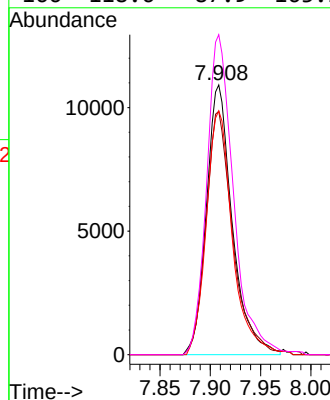
Ion Ratio Lower Upper

164 100

129 90.2 66.4 123.4

131 90.4 63.7 118.3

166 118.6 87.9 163.3



#50

1,2-Dibromoethane

Concen: 3.839 ug/L

RT: 8.288 min Scan# 2254

Delta R.T. 0.003 min

Lab File: VV032660.D

Acq: 26 Oct 2023 14:17

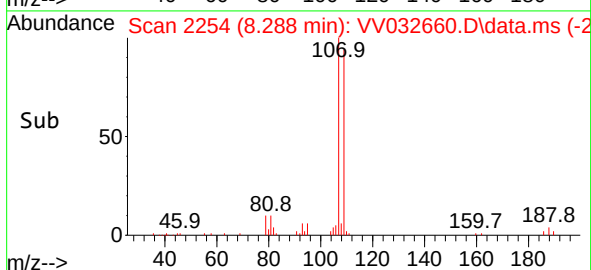
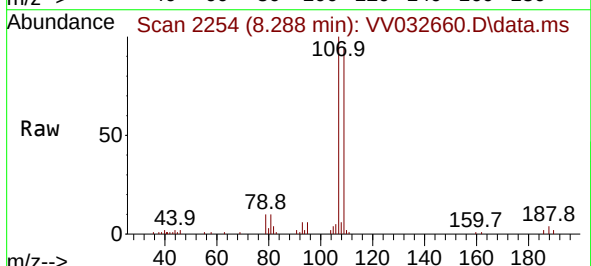
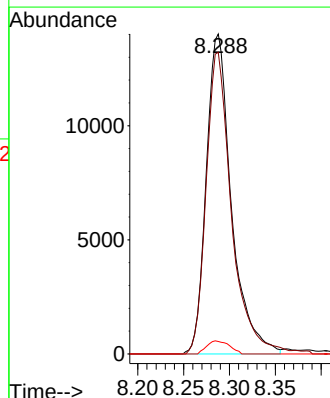
Tgt Ion:107 Resp: 26818

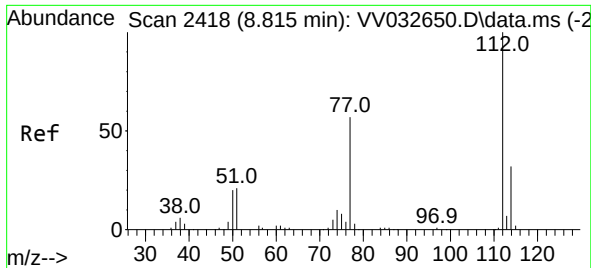
Ion Ratio Lower Upper

107 100

109 94.3 68.4 127.0

188 3.9 3.2 4.8

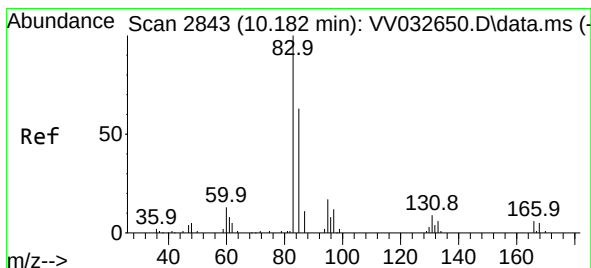
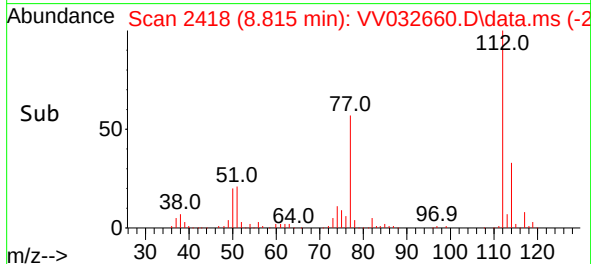
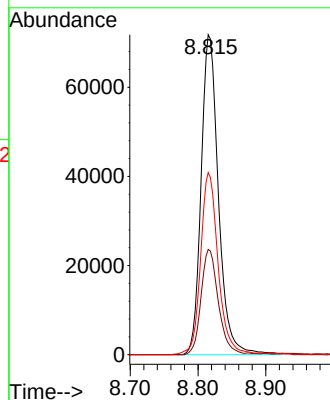
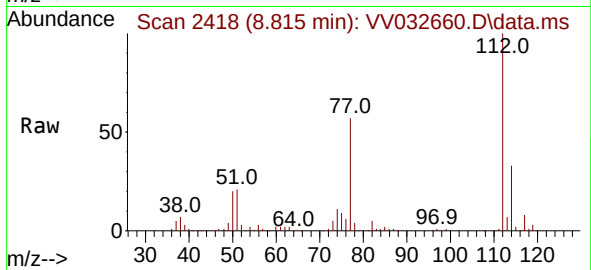




#51
Chlorobenzene
Concen: 4.745 ug/L
RT: 8.815 min Scan# 2418
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

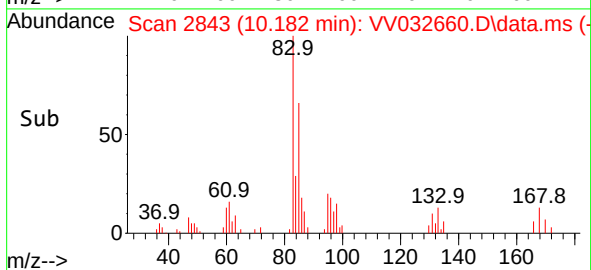
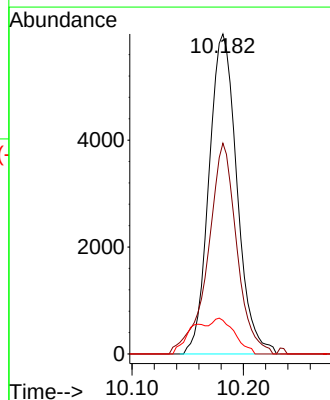
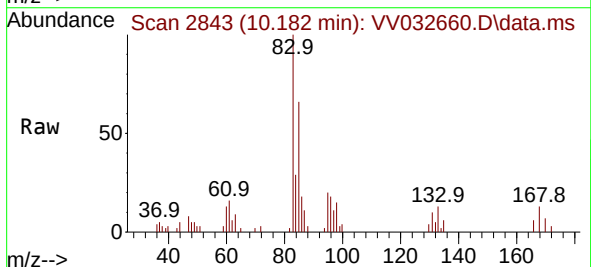
Instrument :
MSVOA_V
ClientSampleId :
A4AA3

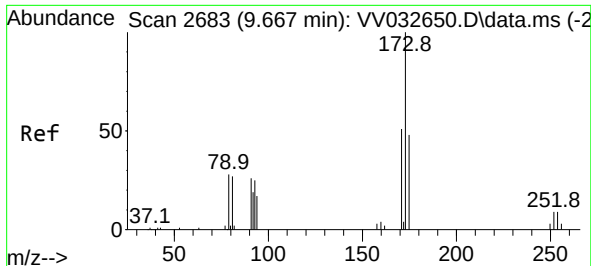
Tgt Ion:112 Resp: 127485
Ion Ratio Lower Upper
112 100
114 32.9 22.1 41.1
77 56.9 46.1 69.1



#57
1,1,2,2-Tetrachloroethane
Concen: 1.284 ug/L
RT: 10.182 min Scan# 2843
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion: 83 Resp: 10431
Ion Ratio Lower Upper
83 100
85 65.8 43.6 81.0
131 10.5 7.0 10.6

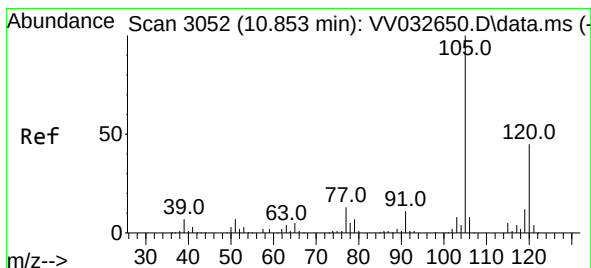
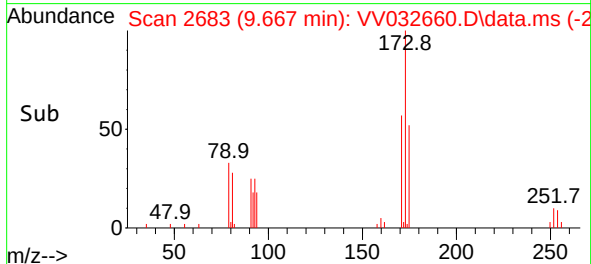
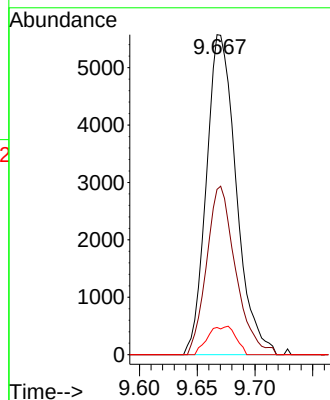
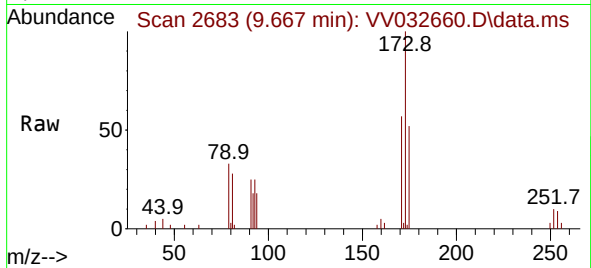




#59
Bromoform
Concen: 2.465 ug/L
RT: 9.667 min Scan# 20
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

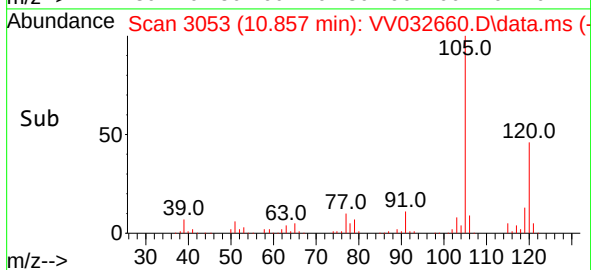
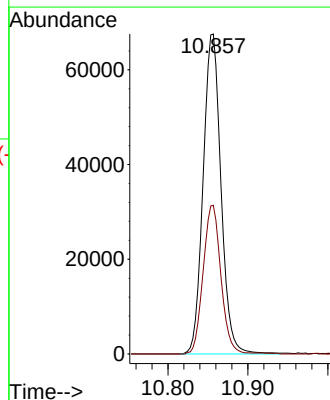
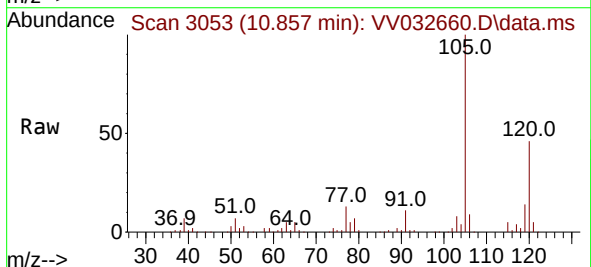
Instrument :
MSVOA_V
ClientSampleId :
A4AA3

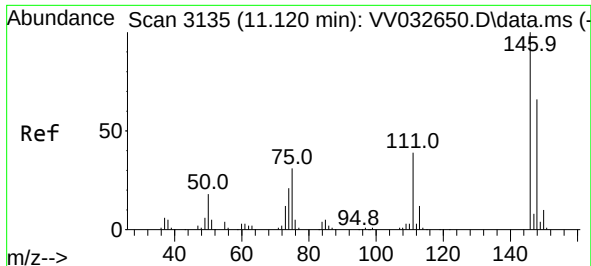
Tgt Ion:173 Resp: 10010
Ion Ratio Lower Upper
173 100
175 51.1 38.2 57.2
254 8.3 7.0 10.4



#63
1,2,4-Trimethylbenzene
Concen: 2.990 ug/L
RT: 10.857 min Scan# 3053
Delta R.T. 0.003 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion:105 Resp: 105264
Ion Ratio Lower Upper
105 100
120 46.4 36.2 54.4

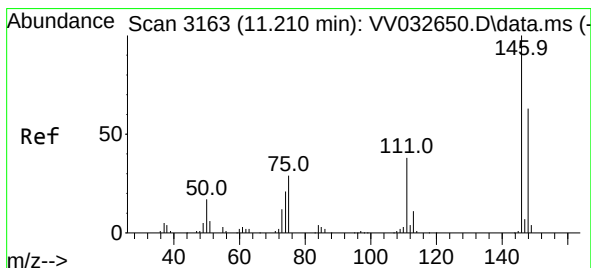
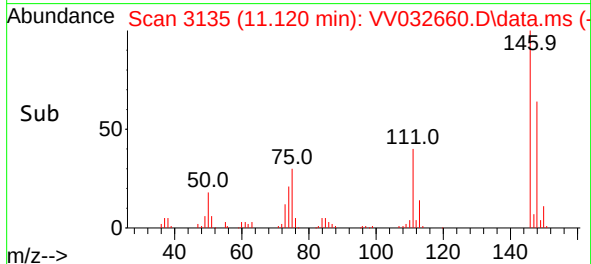
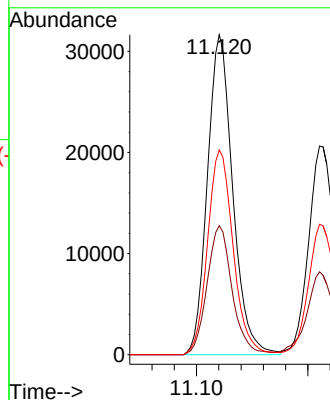
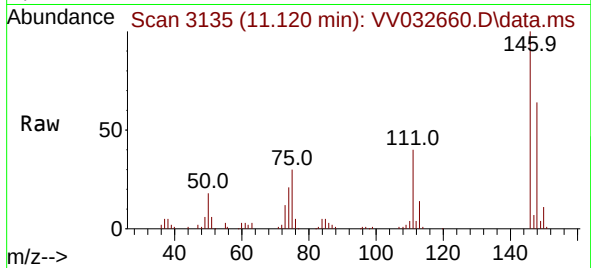




#64
1,3-Dichlorobenzene
Concen: 2.409 ug/L
RT: 11.120 min Scan# 3135
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

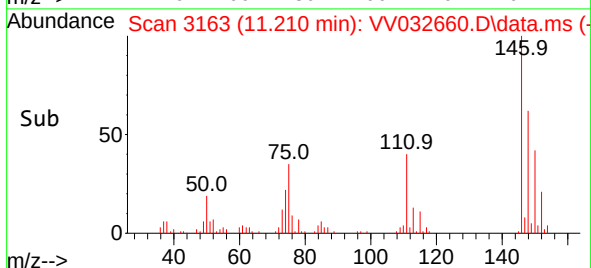
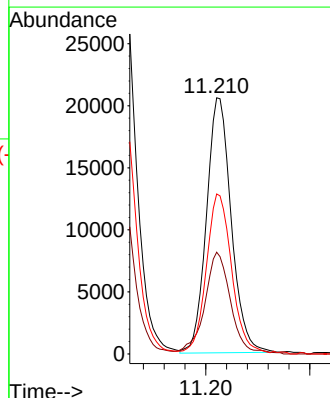
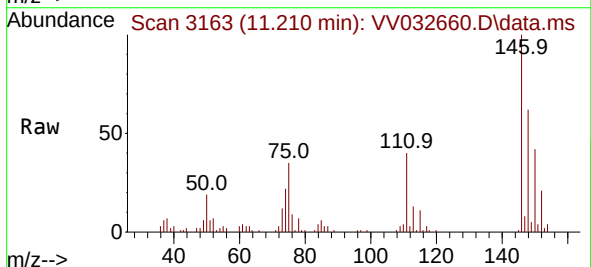
Instrument :
MSVOA_V
ClientSampleId :
A4AA3

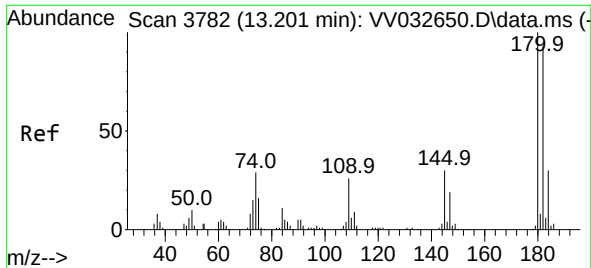
Tgt Ion:146 Resp: 49940
Ion Ratio Lower Upper
146 100
111 40.3 27.8 51.6
148 64.0 43.7 81.1



#65
1,4-Dichlorobenzene
Concen: 1.635 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VV032660.D
Acq: 26 Oct 2023 14:17

Tgt Ion:146 Resp: 34008
Ion Ratio Lower Upper
146 100
111 39.7 26.9 49.9
148 62.5 44.8 83.2

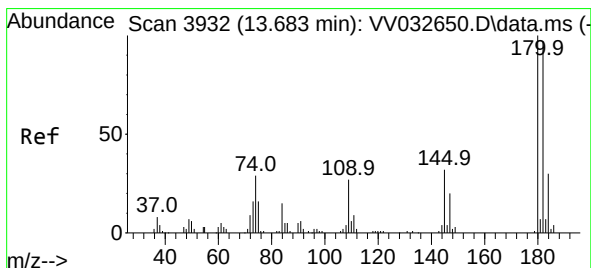
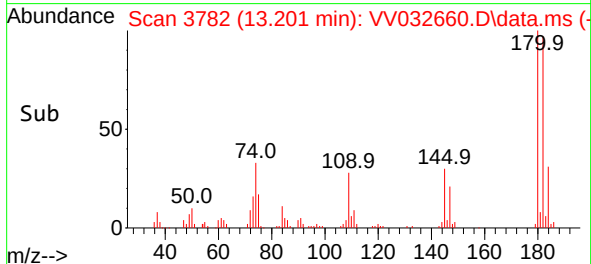
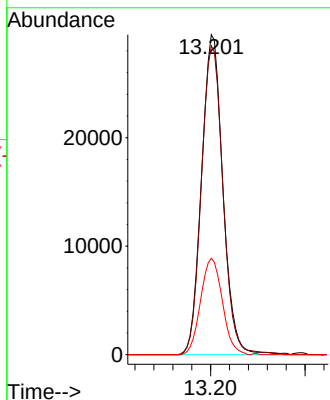
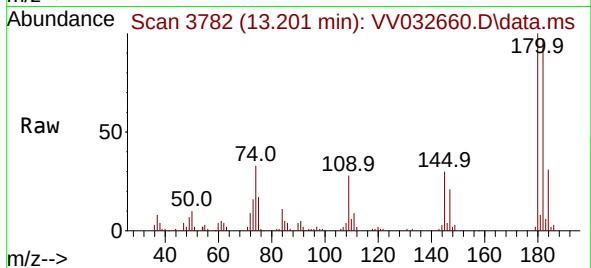




#70
 1,2,4-trichlorobenzene
 Concen: 3.430 ug/L
 RT: 13.201 min Scan# 3782
 Delta R.T. 0.000 min
 Lab File: VV032660.D
 Acq: 26 Oct 2023 14:17

Instrument :
 MSVOA_V
 ClientSampleId :
 A4AA3

Tgt Ion:180 Resp: 46183
 Ion Ratio Lower Upper
 180 100
 182 97.8 76.5 114.7
 145 30.6 24.3 36.5



#72
 1,2,3-Trichlorobenzene
 Concen: 2.216 ug/L
 RT: 13.683 min Scan# 3932
 Delta R.T. 0.000 min
 Lab File: VV032660.D
 Acq: 26 Oct 2023 14:17

Tgt Ion:180 Resp: 25713
 Ion Ratio Lower Upper
 180 100
 182 95.4 77.0 115.4
 145 32.3 25.7 38.5

