

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW021524\
 Data File : VW034190.D
 Acq On : 15 Feb 2024 15:30
 Operator : SY/MD
 Sample : P1498-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 16 00:42:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR012524WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Feb 16 00:40:49 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	74458	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	62869	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.184	152	34981	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	20856	3.617	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.400%
7) Chloroethane-d5	1.535	69	20145	3.988	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.800%
11) 1,1-Dichloroethene-d2	2.063	65	10994	3.953	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.000%
20) 2-Butanone-d5	3.796	46	45059	46.525	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.060%
24) Chloroform-d	4.252	84	50967	4.864	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.200%
26) 1,2-Dichloroethane-d4	4.947	65	24525	5.008	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.200%
32) Benzene-d6	4.963	84	84790	4.495	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.000%
36) 1,2-Dichloropropane-d6	6.001	67	21631	4.103	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.000%
41) Toluene-d8	7.246	98	69980	4.037	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
43) trans-1,3-Dichloroprop...	7.561	79	9163	4.602	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.000%
46) 2-Hexanone-d5	8.027	63	30975	43.583	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.160%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	14906	4.663	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.200%
66) 1,2-Dichlorobenzene-d4	11.561	152	28579	4.492	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.800%
Target Compounds						Qvalue
5) Vinyl chloride	1.285	62	23141	3.254	ug/L	90
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	67424	12.585	ug/L	99
12) 1,1-Dichloroethene	2.072	96	300182	57.710	ug/L #	70
17) Methyl tert-butyl Ether	2.706	73	5128	0.480	ug/L	95
18) trans-1,2-Dichloroethene	2.696	96	50949	9.617	ug/L	99
19) 1,1-Dichloroethane	3.114	63	75329	7.738	ug/L	97
22) cis-1,2-Dichloroethene	3.812	96	1951624	324.684	ug/L	97
25) Chloroform	4.278	83	88678	9.011	ug/L	96
29) 1,1,1-Trichloroethane	4.513	97	4310	0.511	ug/L	96
30) Cyclohexane	4.587	56	1509	0.184	ug/L	90
33) Benzene	5.018	78	13239	0.702	ug/L	100
34) Trichloroethene	5.886	95	31698124	5808.402	ug/L	94
35) Methylcyclohexane	5.886	83	454841	53.097	ug/L #	1
37) 1,2-Dichloropropane	5.870	63	138472	30.315	ug/L #	87
45) 1,1,2-Trichloroethane	7.773	97	5024	1.781	ug/L	92
47) Tetrachloroethene	7.905	164	475529	107.240	ug/L	97
48) 2-Hexanone	8.085	43	4581	2.971	ug/L #	91
49) Dibromochloromethane	7.905	129	419974	125.304	ug/L #	11
53) m,p-Xylene	9.085	106	450	0.051	ug/L	70

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Feb 16 00:40:49 2024
Response via : Initial Calibration

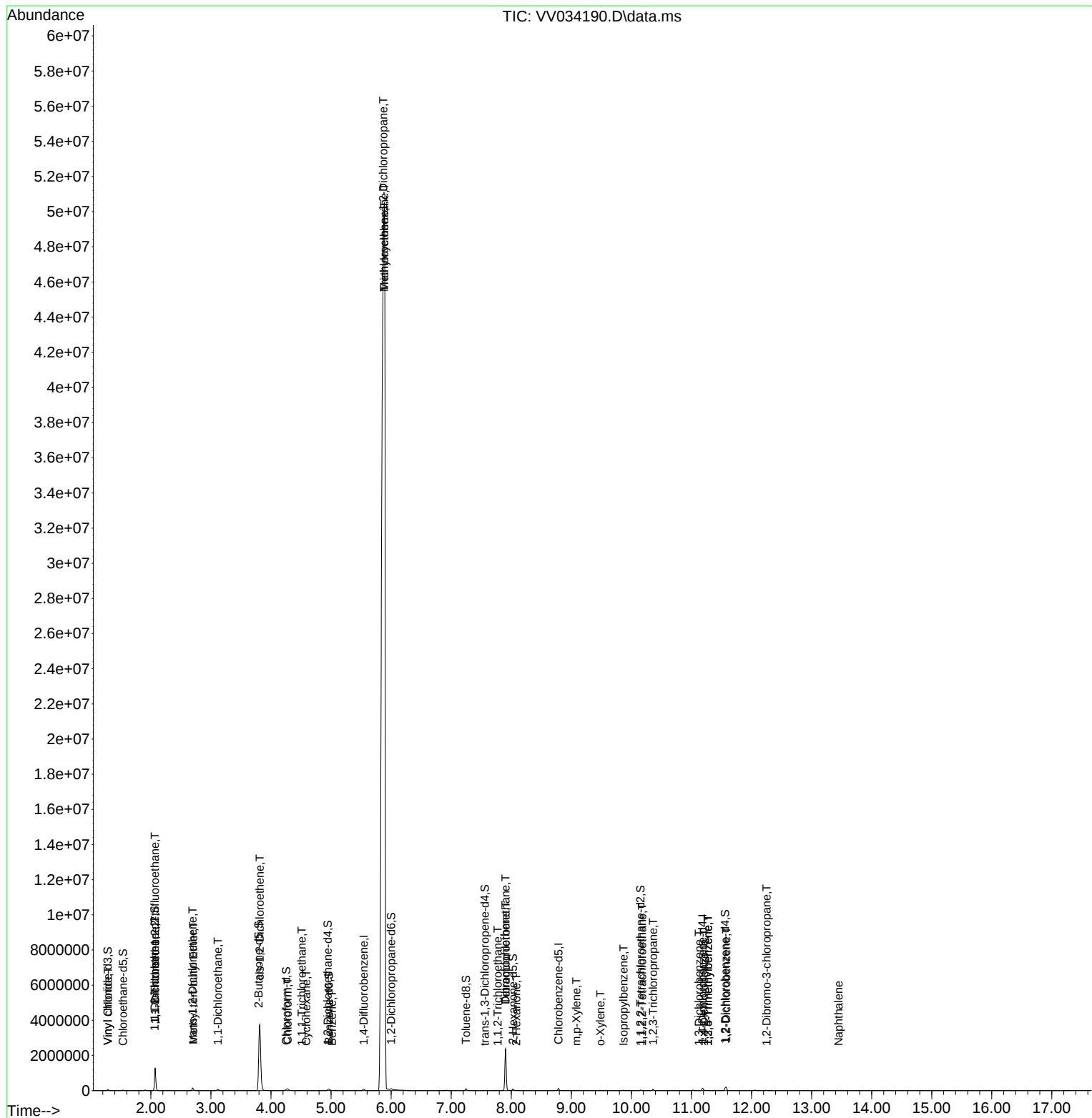
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.484	106	1597	0.189	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.178	83	1784	0.599	ug/L #	95
60) Isopropylbenzene	9.869	105	16753	0.647	ug/L	98
61) 1,2,3-Trichloropropane	10.361	75	1456	0.605	ug/L #	45
62) 1,3,5-Trimethylbenzene	11.275	105	6462	0.295	ug/L	91
63) 1,2,4-Trimethylbenzene	11.275	105	6462	0.304	ug/L	95
64) 1,3-Dichlorobenzene	11.123	146	1037	0.092	ug/L	93
65) 1,4-Dichlorobenzene	11.210	146	9974	0.892	ug/L	98
67) 1,2-Dichlorobenzene	11.580	146	61712	6.367	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.249	75	109	0.216	ug/L #	1
71) Naphthalene	13.448	128	3134	0.351	ug/L #	91

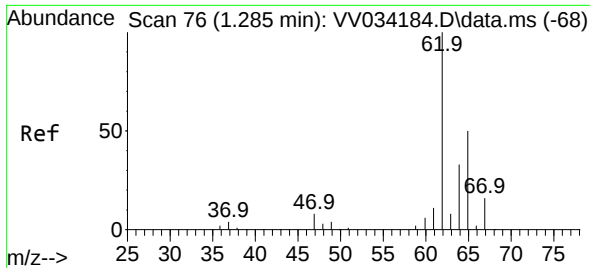
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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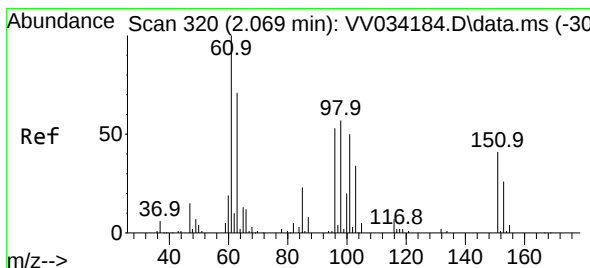
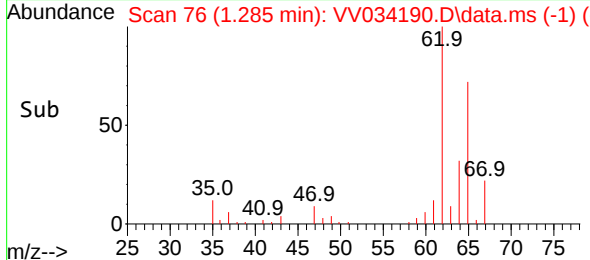
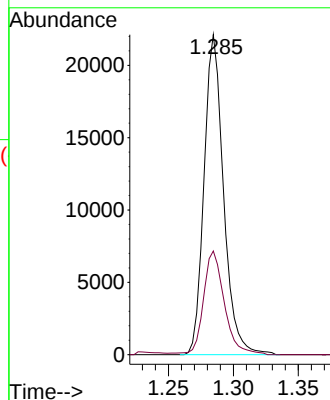
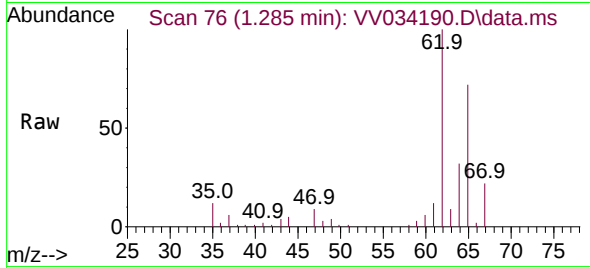




#5
 Vinyl chloride
 Concen: 3.254 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. -0.000 min
 Lab File: VV034190.D
 Acq: 15 Feb 2024 15:30

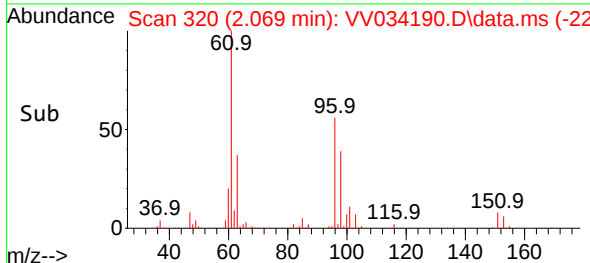
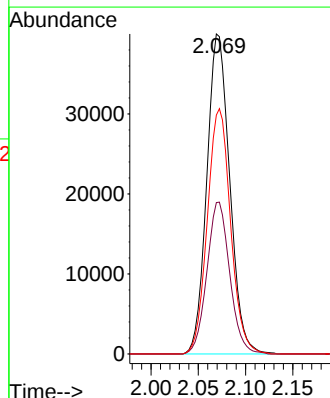
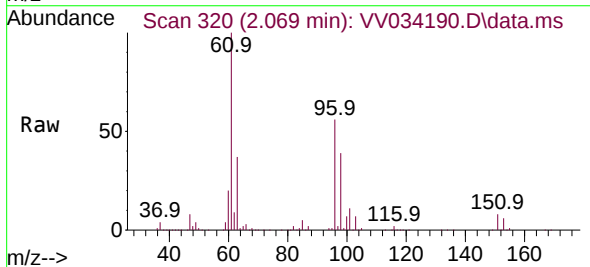
Instrument :
 MSVOA_V
 ClientSampleId :

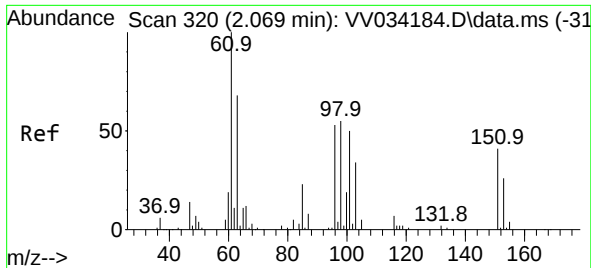
Tgt Ion: 62 Resp: 23141
 Ion Ratio Lower Upper
 62 100
 64 32.4 27.2 50.4



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 12.585 ug/L
 RT: 2.069 min Scan# 320
 Delta R.T. -0.000 min
 Lab File: VV034190.D
 Acq: 15 Feb 2024 15:30

Tgt Ion: 101 Resp: 67424
 Ion Ratio Lower Upper
 101 100
 85 47.2 37.1 55.7
 151 77.9 61.7 92.5





#12

1,1-Dichloroethene

Concen: 57.710 ug/L

RT: 2.072 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV034190.D

Acq: 15 Feb 2024 15:30

Instrument :

MSVOA_V

ClientSampleId :

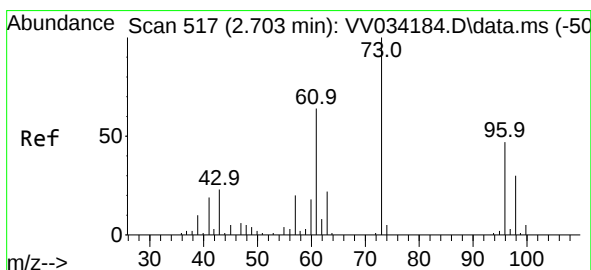
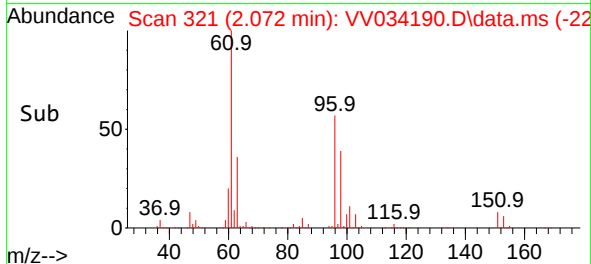
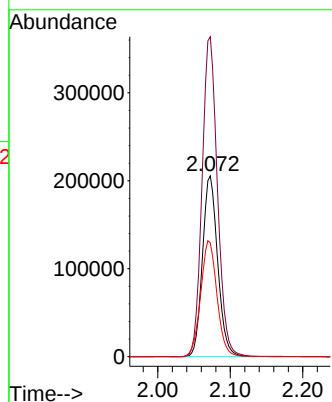
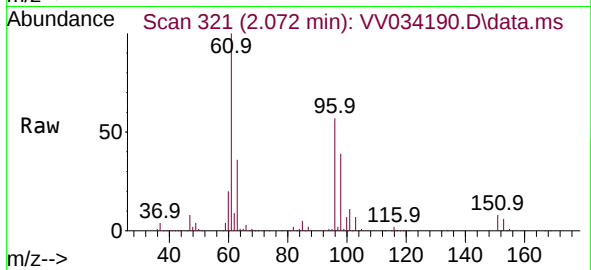
Tgt Ion: 96 Resp: 300182

Ion Ratio Lower Upper

96 100

61 176.9 128.8 239.2

63 62.9 97.9 181.9#



#17

Methyl tert-butyl Ether

Concen: 0.480 ug/L

RT: 2.706 min Scan# 518

Delta R.T. 0.003 min

Lab File: VV034190.D

Acq: 15 Feb 2024 15:30

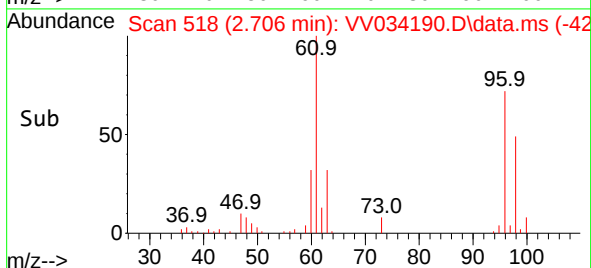
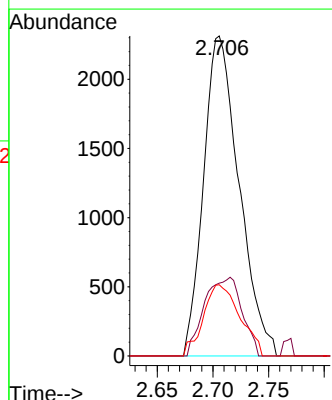
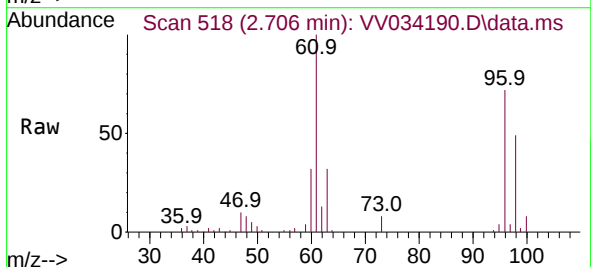
Tgt Ion: 73 Resp: 5128

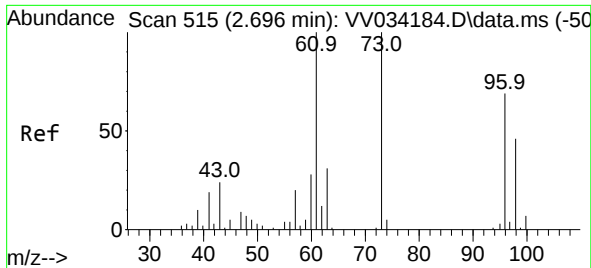
Ion Ratio Lower Upper

73 100

43 26.1 17.7 26.5

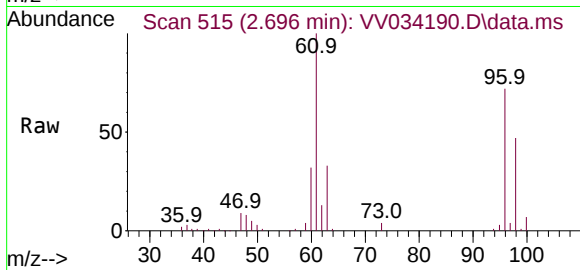
57 23.0 17.9 26.9





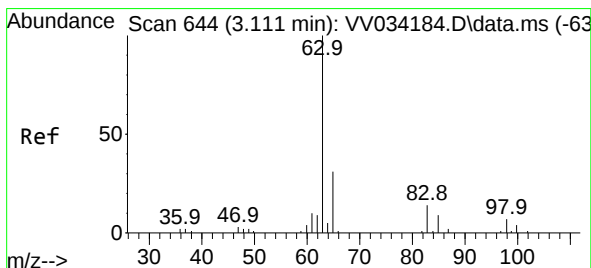
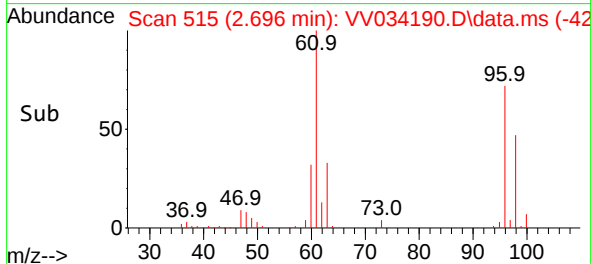
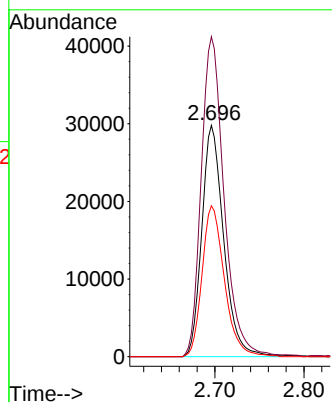
#18
trans-1,2-Dichloroethene
Concen: 9.617 ug/L
RT: 2.696 min Scan# 515
Delta R.T. -0.000 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 96 Resp: 50949

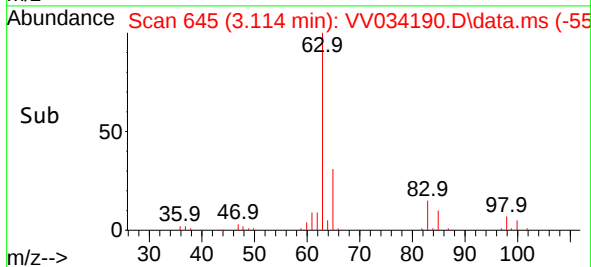
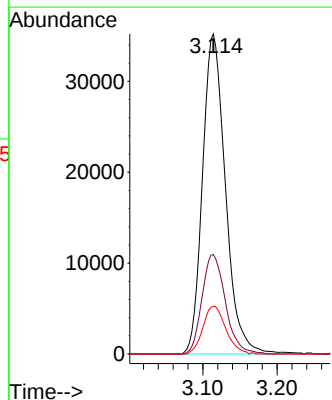
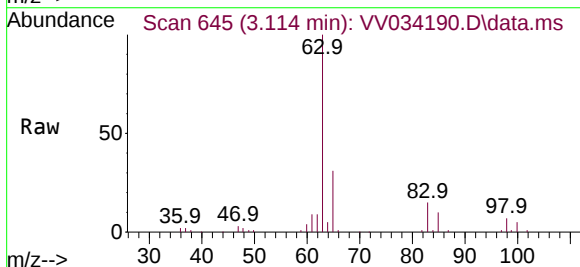
Ion	Ratio	Lower	Upper
96	100		
61	138.3	97.6	181.4
98	65.2	44.4	82.5

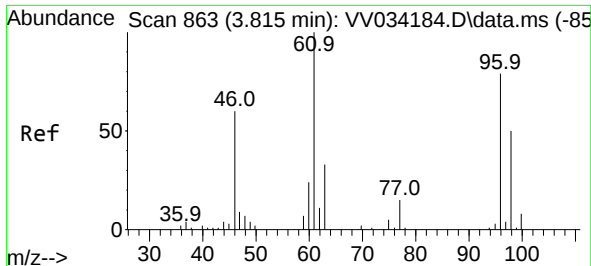


#19
1,1-Dichloroethane
Concen: 7.738 ug/L
RT: 3.114 min Scan# 645
Delta R.T. 0.003 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion: 63 Resp: 75329

Ion	Ratio	Lower	Upper
63	100		
65	31.1	20.8	38.6
83	14.9	9.4	17.4





#22

cis-1,2-Dichloroethene

Concen: 324.684 ug/L

RT: 3.812 min Scan# 80

Delta R.T. -0.003 min

Lab File: VV034190.D

Acq: 15 Feb 2024 15:30

Instrument :

MSVOA_V

ClientSampleId :

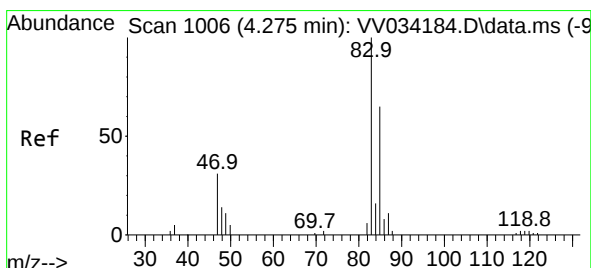
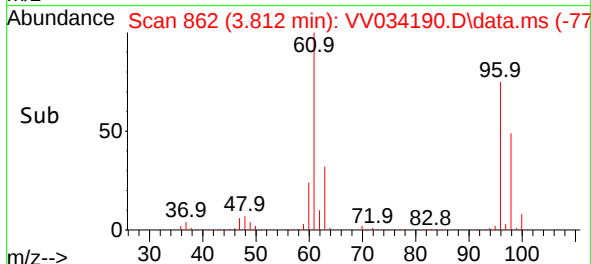
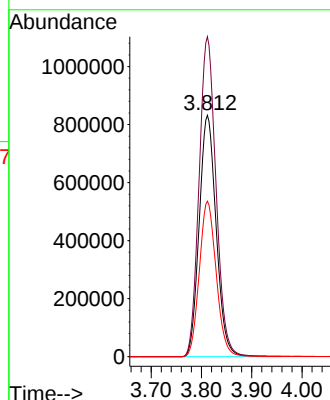
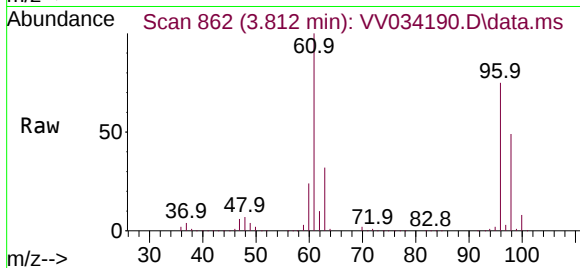
Tgt Ion: 96 Resp: 1951624

Ion Ratio Lower Upper

96 100

61 132.6 90.3 167.7

98 64.4 43.2 80.2



#25

Chloroform

Concen: 9.011 ug/L

RT: 4.278 min Scan# 1007

Delta R.T. 0.003 min

Lab File: VV034190.D

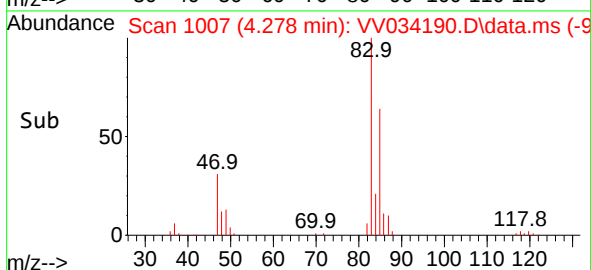
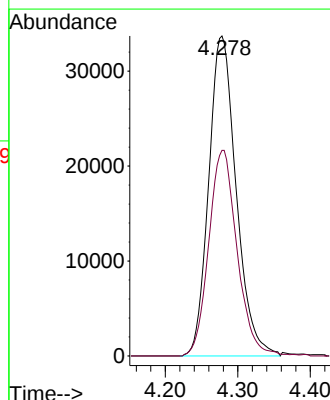
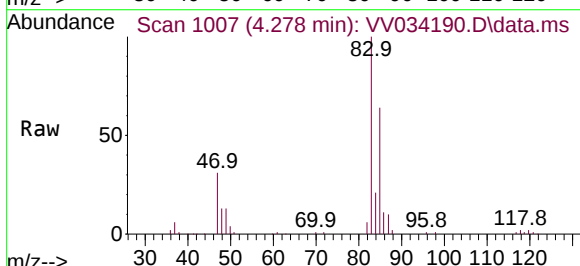
Acq: 15 Feb 2024 15:30

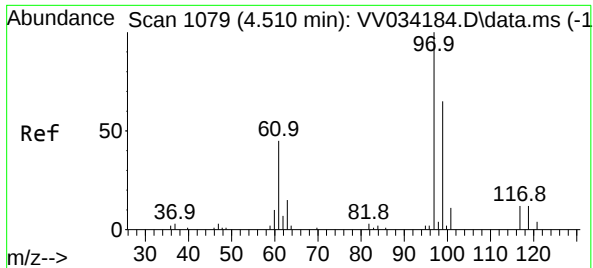
Tgt Ion: 83 Resp: 88678

Ion Ratio Lower Upper

83 100

85 64.3 47.5 88.1

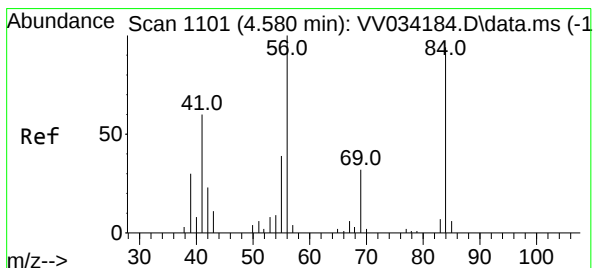
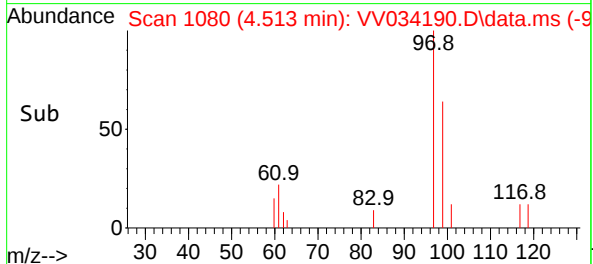
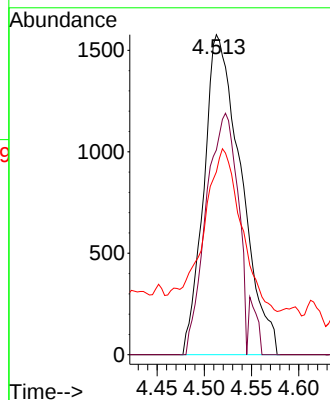
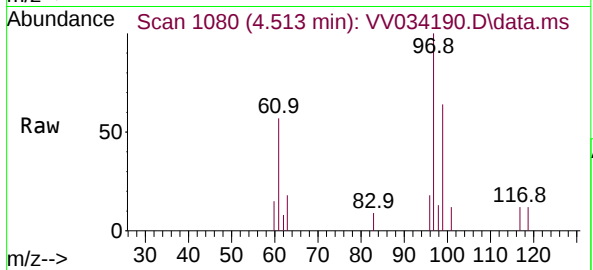




#29
1,1,1-Trichloroethane
Concen: 0.511 ug/L
RT: 4.513 min Scan# 1079
Delta R.T. 0.003 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

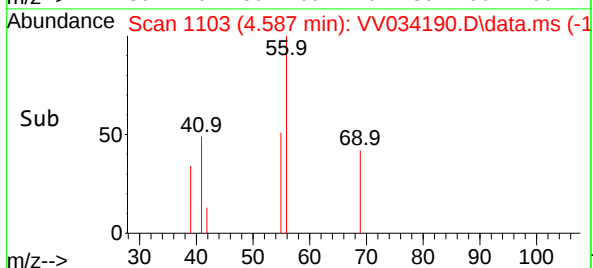
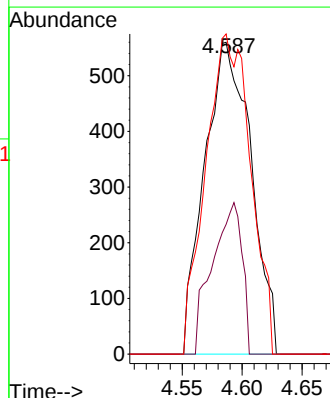
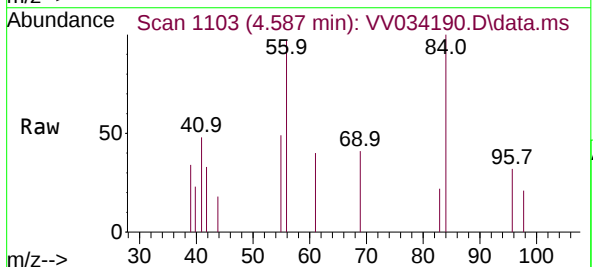
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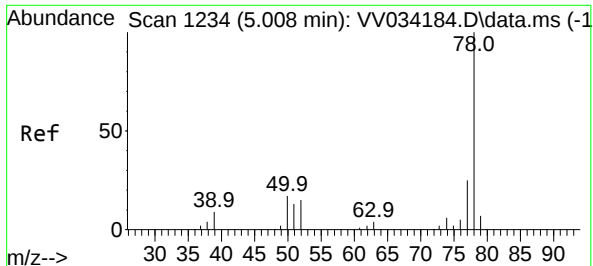
Tgt Ion: 97	Resp: 4310
Ion Ratio	Lower Upper
97 100	
99 63.9	50.6 75.8
61 52.2	36.8 55.2



#30
Cyclohexane
Concen: 0.184 ug/L
RT: 4.587 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion: 56	Resp: 1509
Ion Ratio	Lower Upper
56 100	
69 31.2	24.2 36.2
84 99.3	70.0 105.0

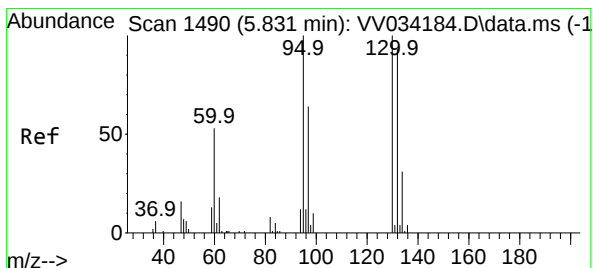
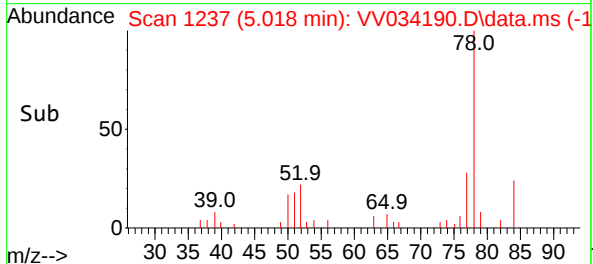
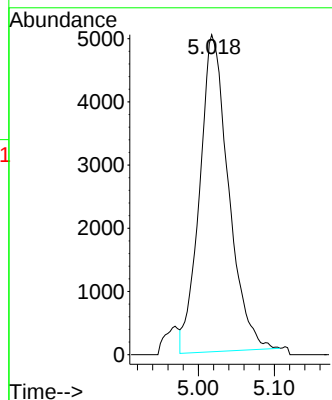
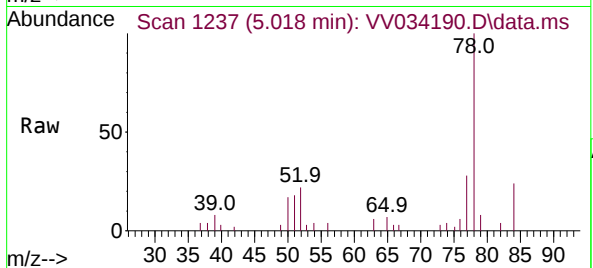




#33
Benzene
Concen: 0.702 ug/L
RT: 5.018 min Scan# 11
Delta R.T. 0.009 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Instrument :
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ClientSampleId :

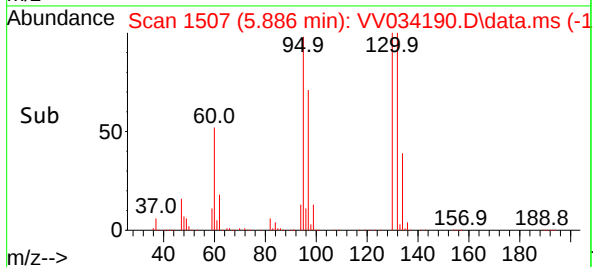
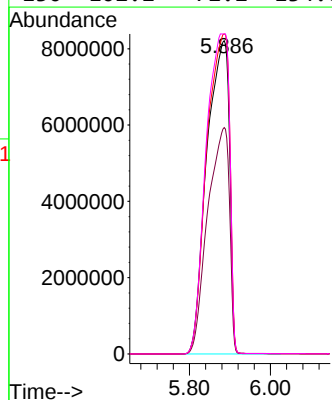
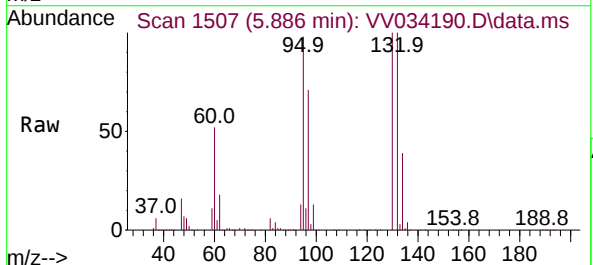
Tgt Ion: 78 Resp: 13239

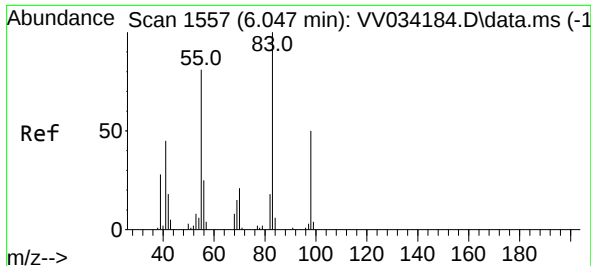


#34
Trichloroethene
Concen: 5808.402 ug/L
RT: 5.886 min Scan# 1507
Delta R.T. 0.054 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion: 95 Resp: 31698124

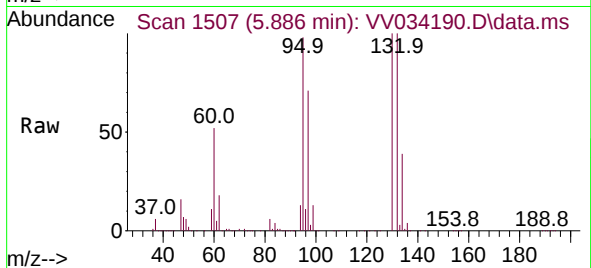
Ion	Ratio	Lower	Upper
95	100		
97	72.3	45.1	83.7
132	102.2	66.0	122.6
130	102.2	72.2	134.0



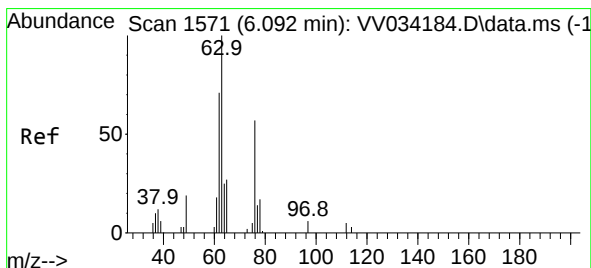
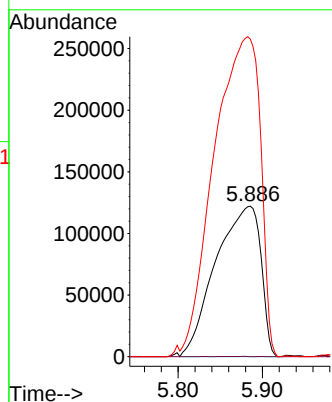
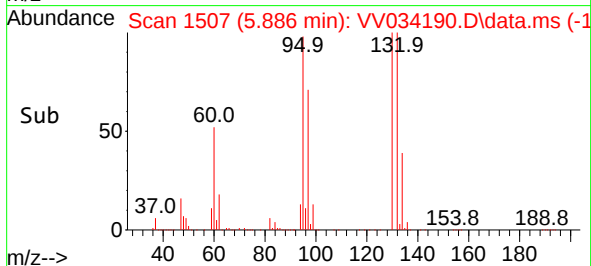


#35
Methylcyclohexane
Concen: 53.097 ug/L
RT: 5.886 min Scan# 11
Delta R.T. -0.161 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Instrument :
MSVOA_V
ClientSampleId :

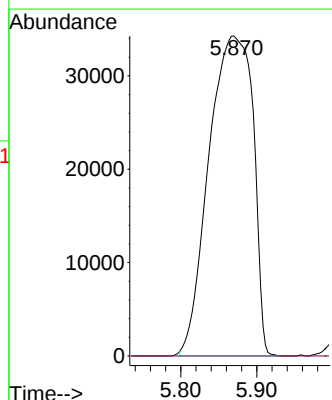
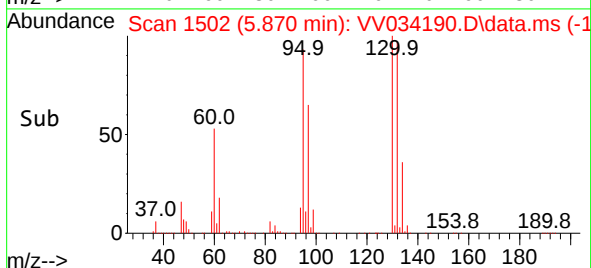
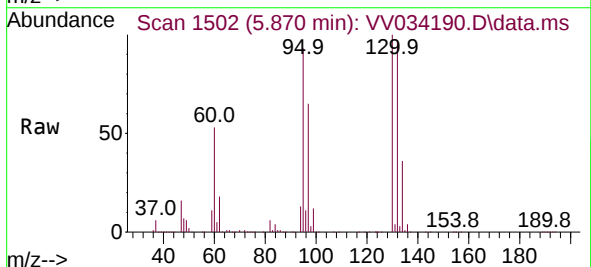


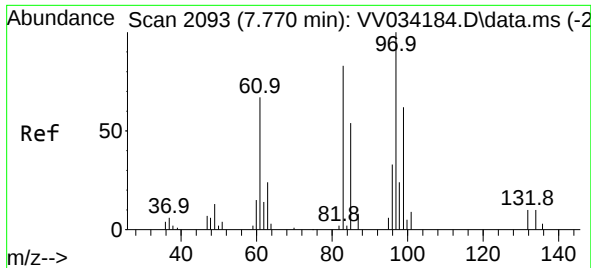
Tgt Ion: 83 Resp: 454841
Ion Ratio Lower Upper
83 100
55 0.0 63.5 95.3#
98 218.8 39.0 58.4#



#37
1,2-Dichloropropane
Concen: 30.315 ug/L
RT: 5.870 min Scan# 1502
Delta R.T. -0.222 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion: 63 Resp: 138472
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#



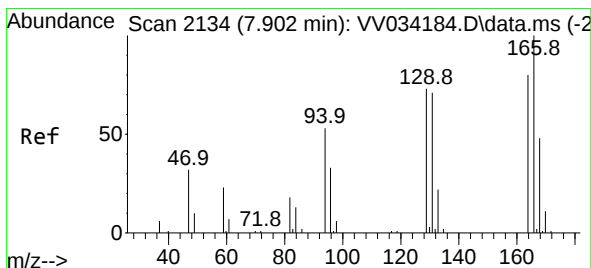
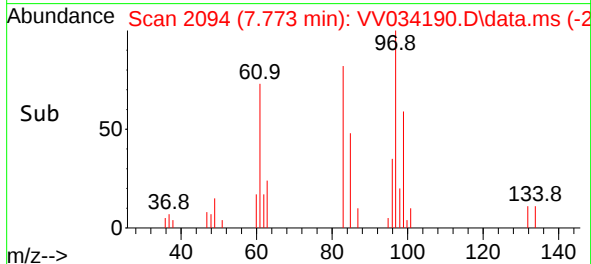
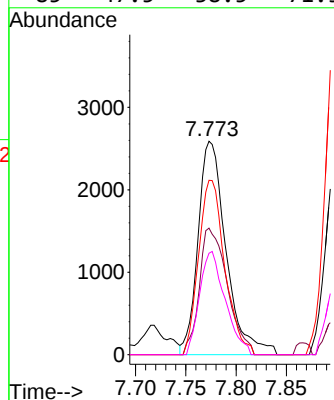
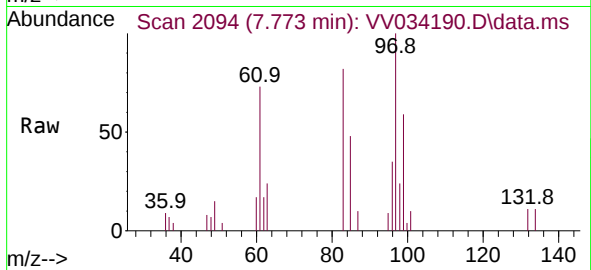


#45
1,1,2-Trichloroethane
Concen: 1.781 ug/L
RT: 7.773 min Scan# 2093
Delta R.T. 0.003 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 97 Resp: 5024

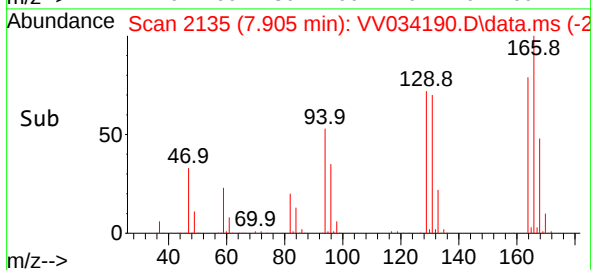
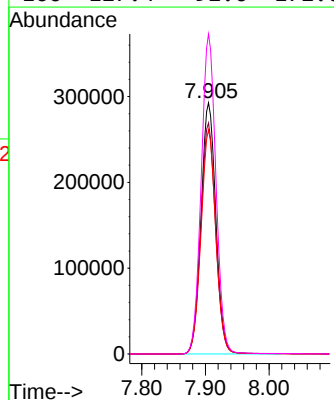
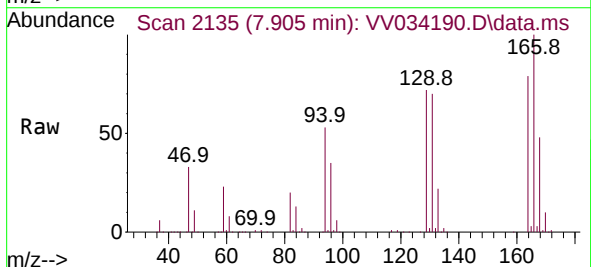
Ion	Ratio	Lower	Upper
97	100		
99	59.3	45.6	84.6
83	81.7	62.3	115.7
85	47.5	38.5	71.5

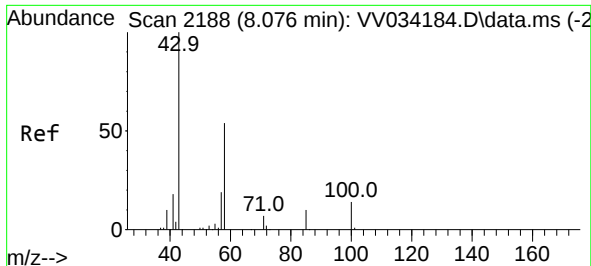


#47
Tetrachloroethene
Concen: 107.240 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. 0.003 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion: 164 Resp: 475529

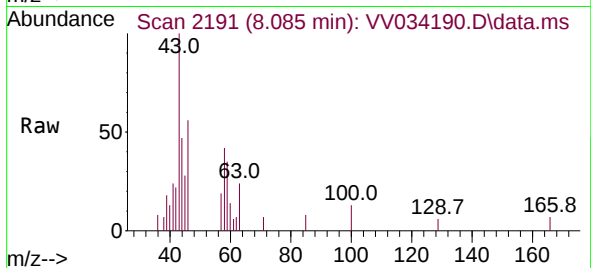
Ion	Ratio	Lower	Upper
164	100		
129	92.0	67.8	125.8
131	89.2	63.0	117.0
166	127.4	92.6	172.0



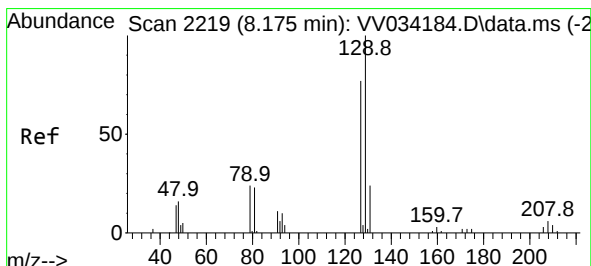
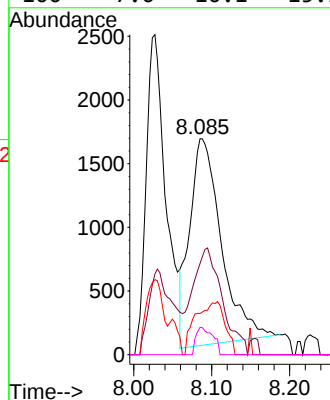
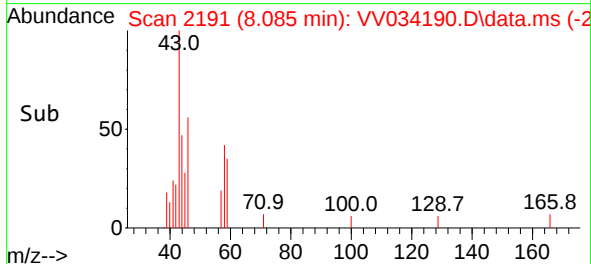


#48
2-Hexanone
Concen: 2.971 ug/L
RT: 8.085 min Scan# 2188
Delta R.T. 0.009 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Instrument :
MSVOA_V
ClientSampleId :

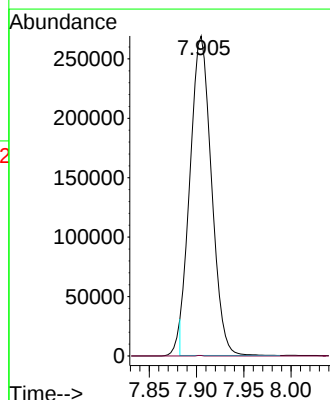
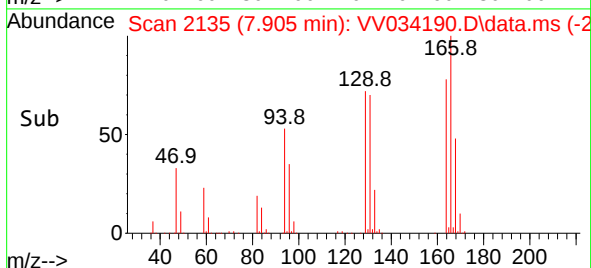
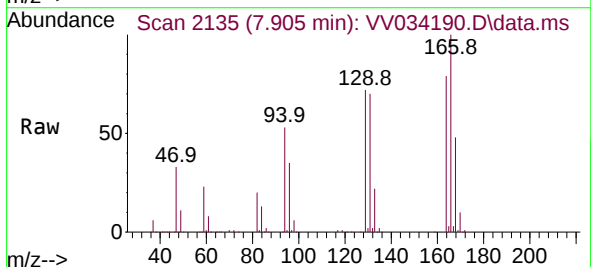


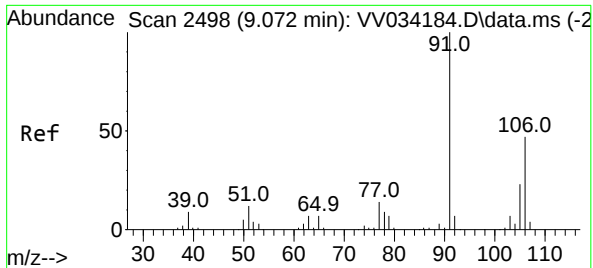
Tgt Ion: 43 Resp: 4581
Ion Ratio Lower Upper
43 100
58 48.5 42.6 64.0
57 23.8 15.5 23.3#
100 7.0 10.1 15.1#



#49
Dibromochloromethane
Concen: 125.304 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.270 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion: 129 Resp: 419974
Ion Ratio Lower Upper
129 100
127 0.1 53.5 99.5#

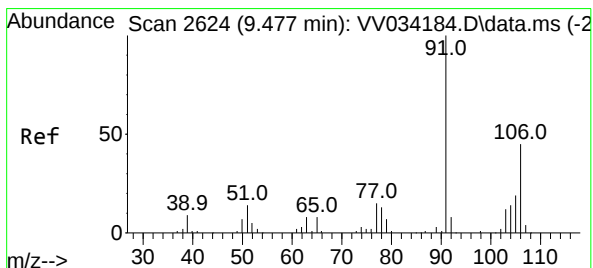
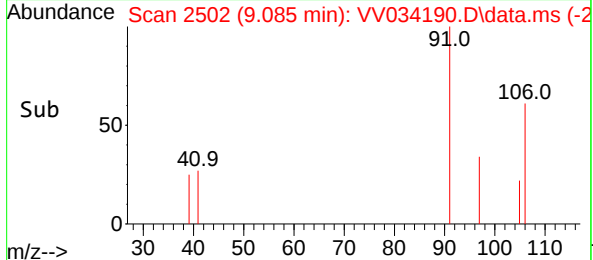
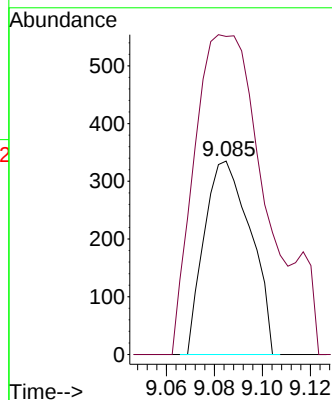
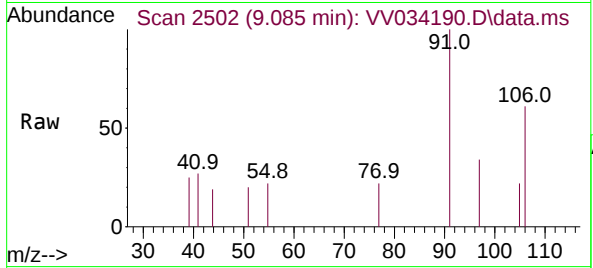




#53
m,p-Xylene
Concen: 0.051 ug/L
RT: 9.085 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

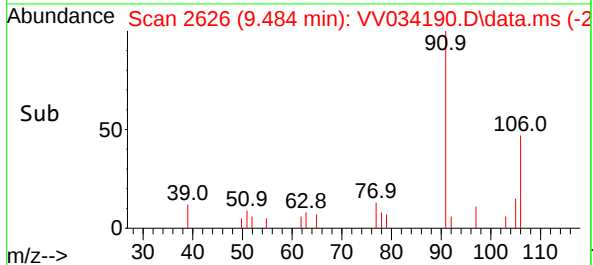
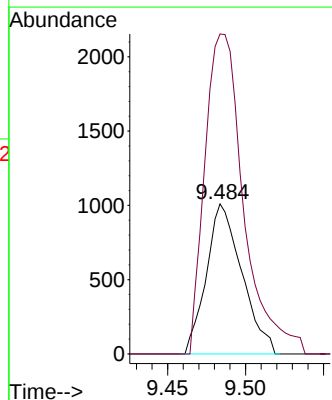
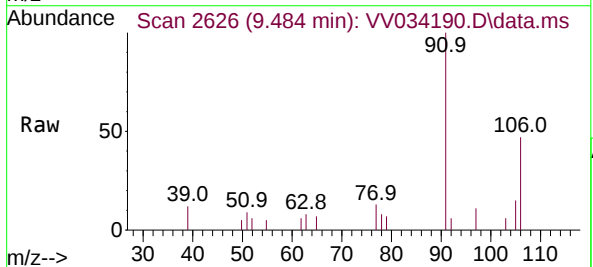
Instrument :
MSVOA_V
ClientSampleId :

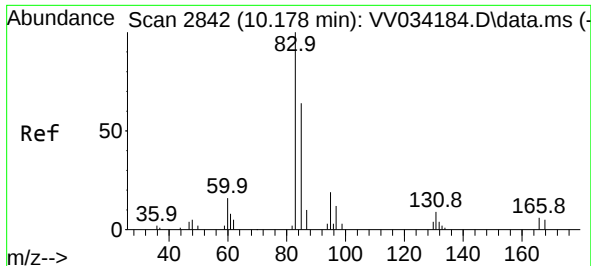
Tgt Ion:106 Resp: 450
Ion Ratio Lower Upper
106 100
91 164.5 147.5 273.9



#54
o-Xylene
Concen: 0.189 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.006 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion:106 Resp: 1597
Ion Ratio Lower Upper
106 100
91 213.3 156.2 290.0





#57

1,1,2,2-Tetrachloroethane

Concen: 0.599 ug/L

RT: 10.178 min Scan# 2842

Delta R.T. -0.000 min

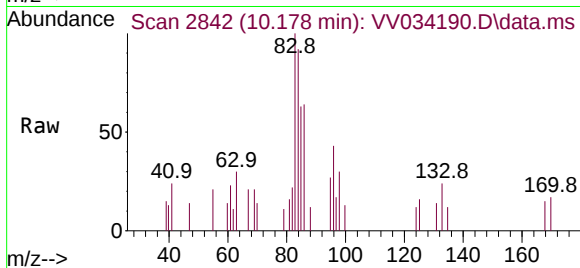
Lab File: VV034190.D

Acq: 15 Feb 2024 15:30

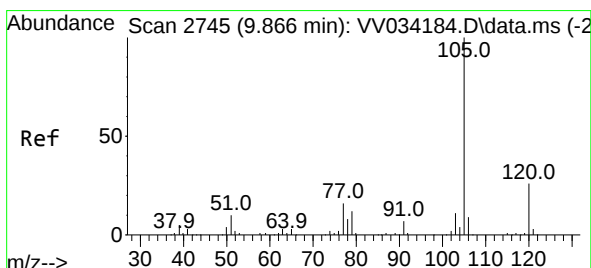
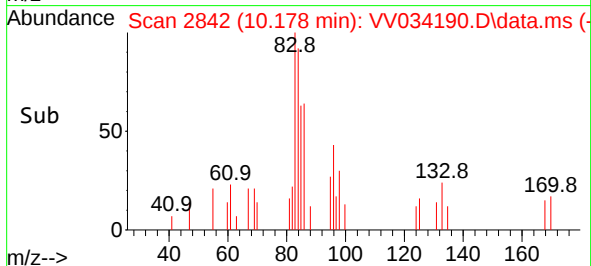
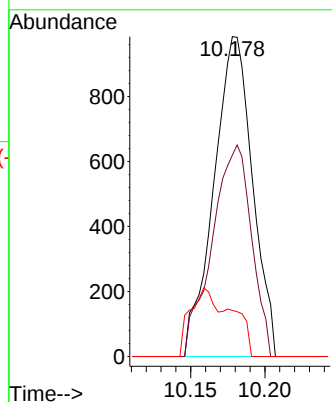
Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	83	Resp:	1784
Ion	Ratio	Lower	Upper
83	100		
85	63.0	46.5	86.3
131	14.4	8.4	12.6



#60

Isopropylbenzene

Concen: 0.647 ug/L

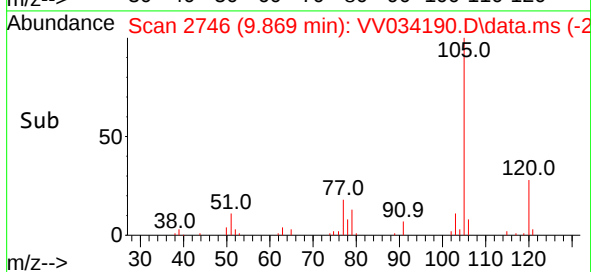
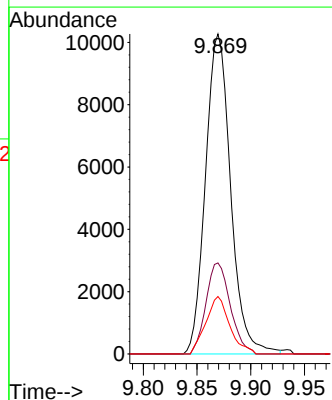
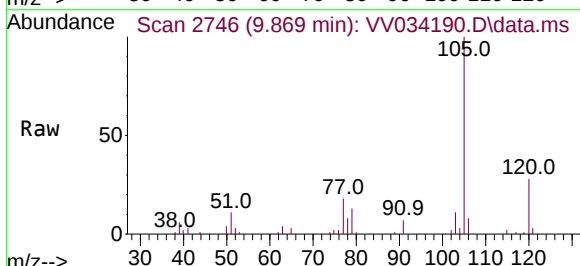
RT: 9.869 min Scan# 2746

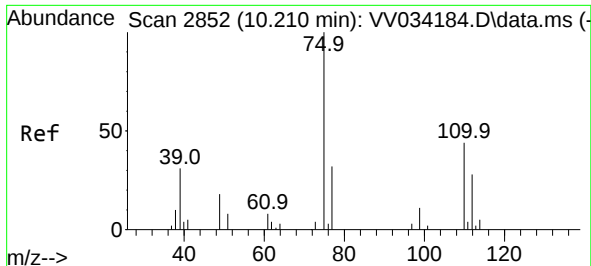
Delta R.T. 0.003 min

Lab File: VV034190.D

Acq: 15 Feb 2024 15:30

Tgt Ion:	105	Resp:	16753
Ion	Ratio	Lower	Upper
105	100		
120	27.4	20.7	31.1
77	17.0	13.0	19.6

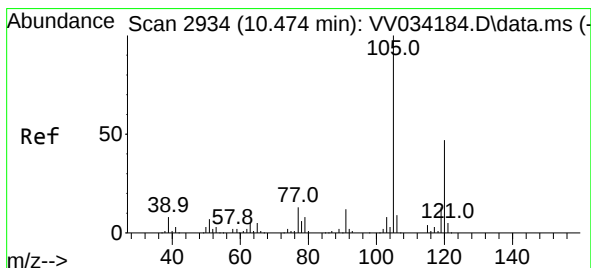
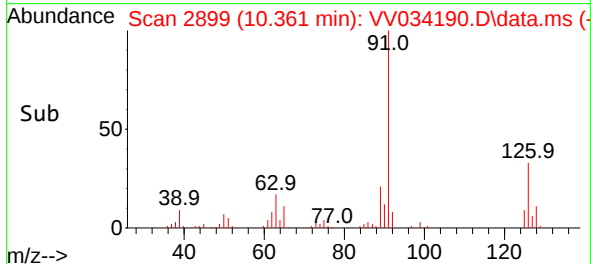
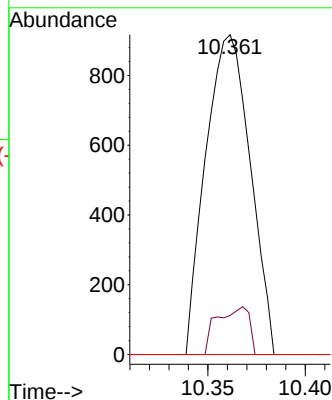
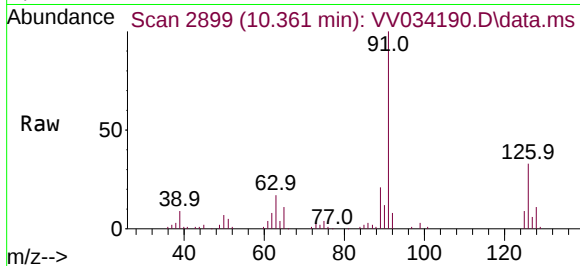




#61
 1,2,3-Trichloropropane
 Concen: 0.605 ug/L
 RT: 10.361 min Scan# 21
 Delta R.T. 0.151 min
 Lab File: VV034190.D
 Acq: 15 Feb 2024 15:30

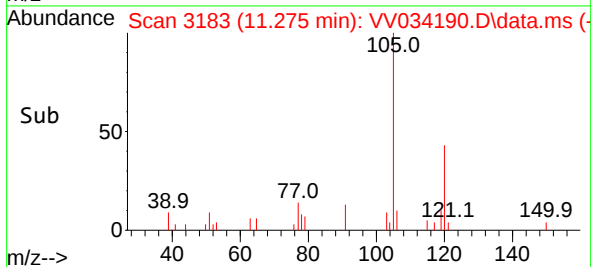
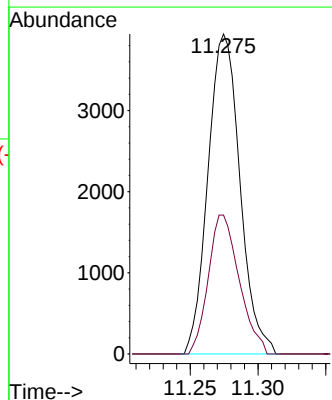
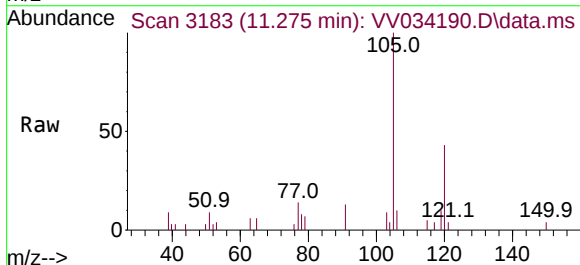
Instrument :
 MSVOA_V
 ClientSampleId :

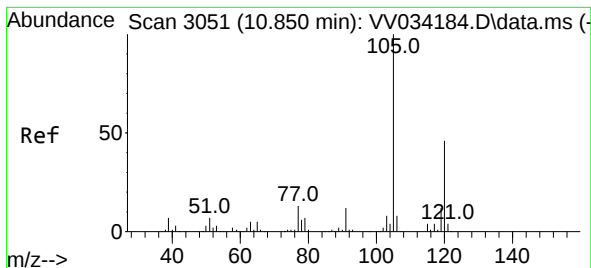
Tgt Ion: 75 Resp: 1456
 Ion Ratio Lower Upper
 75 100
 77 10.7 26.9 40.3#
 110 0.0 33.3 49.9#



#62
 1,3,5-Trimethylbenzene
 Concen: 0.295 ug/L
 RT: 11.275 min Scan# 3183
 Delta R.T. 0.800 min
 Lab File: VV034190.D
 Acq: 15 Feb 2024 15:30

Tgt Ion: 105 Resp: 6462
 Ion Ratio Lower Upper
 105 100
 120 41.9 38.2 57.4





#63

1,2,4-Trimethylbenzene

Concen: 0.304 ug/L

RT: 11.275 min Scan# 3113

Delta R.T. 0.424 min

Lab File: VV034190.D

Acq: 15 Feb 2024 15:30

Instrument :

MSVOA_V

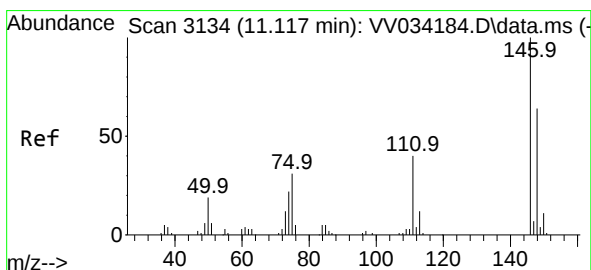
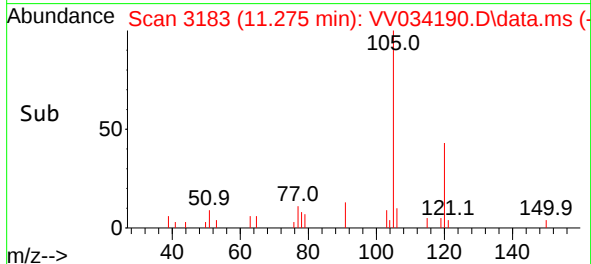
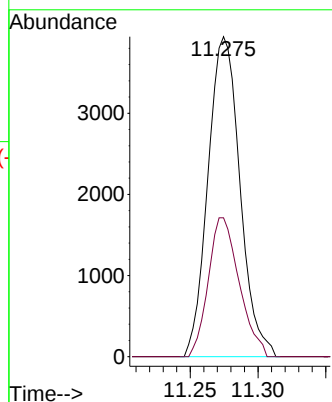
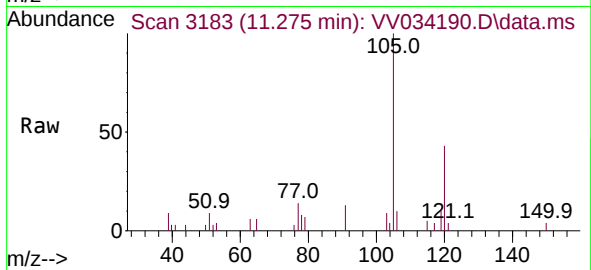
ClientSampleId :

Tgt Ion:105 Resp: 6462

Ion Ratio Lower Upper

105 100

120 41.9 36.2 54.2



#64

1,3-Dichlorobenzene

Concen: 0.092 ug/L

RT: 11.123 min Scan# 3136

Delta R.T. 0.006 min

Lab File: VV034190.D

Acq: 15 Feb 2024 15:30

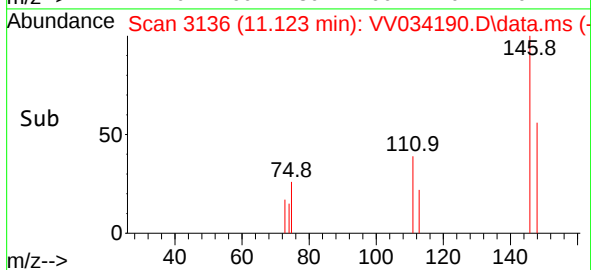
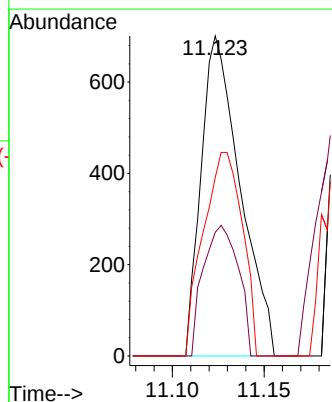
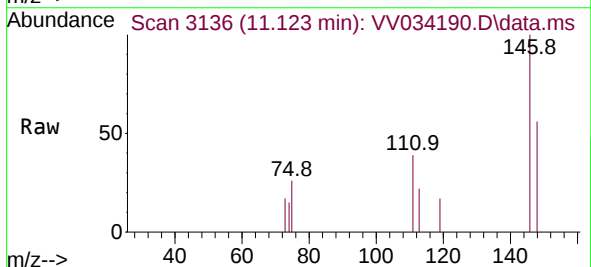
Tgt Ion:146 Resp: 1037

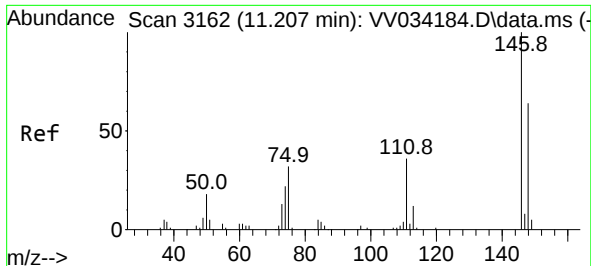
Ion Ratio Lower Upper

146 100

111 38.7 28.5 52.9

148 55.8 44.4 82.4

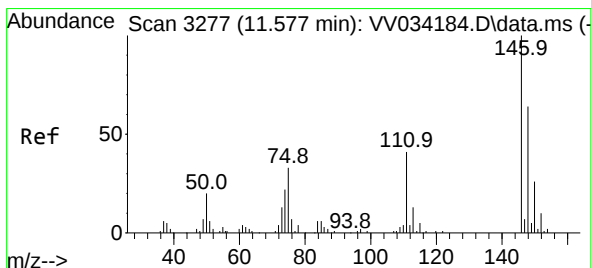
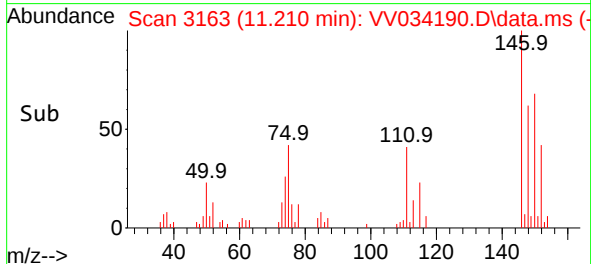
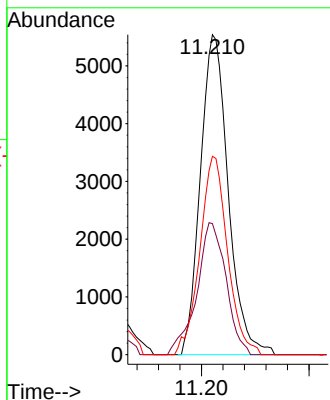
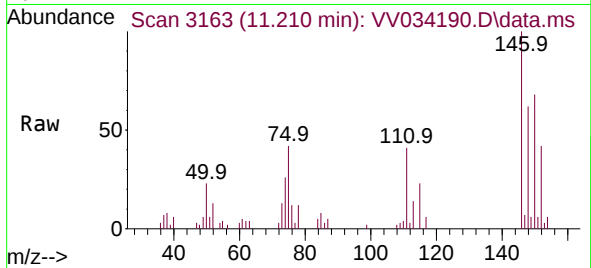




#65
1,4-Dichlorobenzene
Concen: 0.892 ug/L
RT: 11.210 min Scan# 3162
Delta R.T. 0.003 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

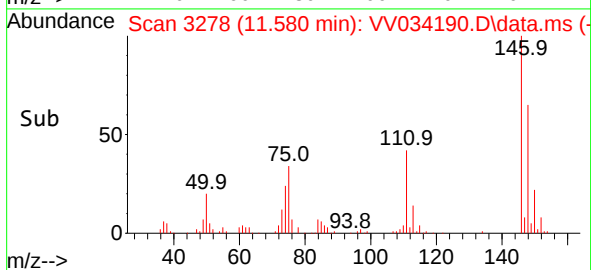
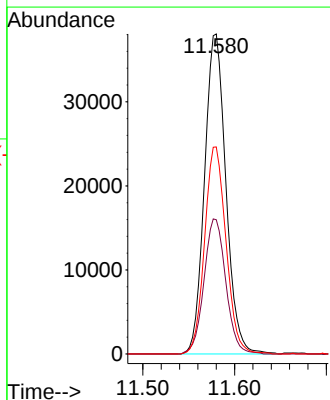
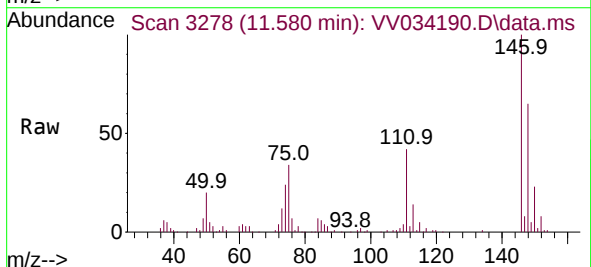
Instrument :
MSVOA_V
ClientSampleId :

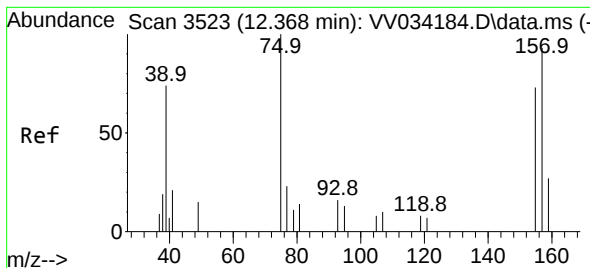
Tgt Ion:146 Resp: 9974
Ion Ratio Lower Upper
146 100
111 41.0 27.6 51.4
148 62.0 44.8 83.2



#67
1,2-Dichlorobenzene
Concen: 6.367 ug/L
RT: 11.580 min Scan# 3278
Delta R.T. 0.003 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion:146 Resp: 61712
Ion Ratio Lower Upper
146 100
111 42.0 31.2 46.8
148 64.7 49.8 74.8

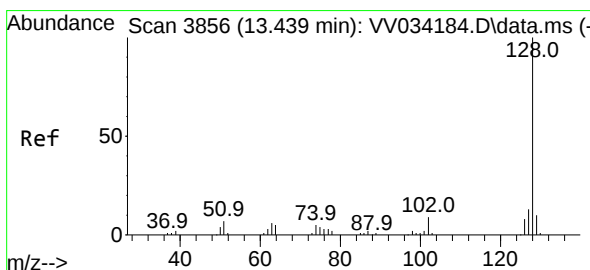
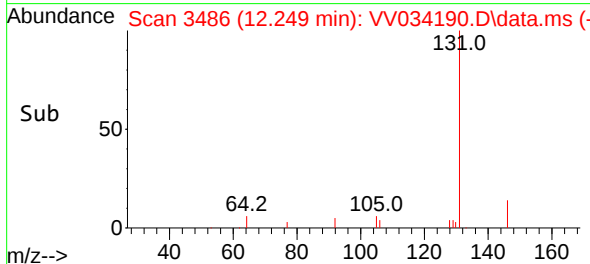
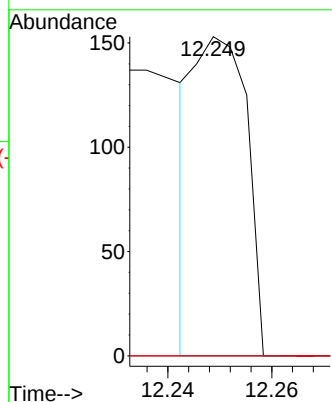
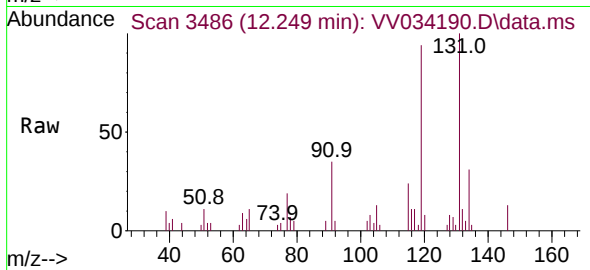




#68
1,2-Dibromo-3-chloropropane
Concen: 0.216 ug/L
RT: 12.249 min Scan# 34
Delta R.T. -0.119 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 109
Ion Ratio Lower Upper
75 100
155 0.0 68.9 103.3#
157 0.0 84.6 127.0#



#71
Naphthalene
Concen: 0.351 ug/L
RT: 13.448 min Scan# 3859
Delta R.T. 0.009 min
Lab File: VV034190.D
Acq: 15 Feb 2024 15:30

Tgt Ion: 128 Resp: 3134
Ion Ratio Lower Upper
128 100
129 7.1 8.5 12.7#
127 9.5 10.4 15.6#

