

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW040723\
 Data File : VW030440.D
 Acq On : 07 Apr 2023 14:04
 Operator : SY/MD
 Sample : 02225-11
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AA0

Quant Time: Apr 10 03:56:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Apr 10 03:52:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	124081	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	126457	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	67008	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	35521	4.322	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.400%
7) Chloroethane-d5	1.536	69	37921	4.755	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.000%
11) 1,1-Dichloroethene-d2	2.063	63	80421	4.124	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.400%
20) 2-Butanone-d5	3.835	46	102425	48.221	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.440%
24) Chloroform-d	4.259	84	104681	5.263	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.200%
26) 1,2-Dichloroethane-d4	4.953	65	49977	5.326	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.600%
32) Benzene-d6	4.970	84	176008	4.939	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.800%
36) 1,2-Dichloropropane-d6	5.998	67	52615	4.716	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.400%
41) Toluene-d8	7.252	98	177340	5.419	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.400%
43) trans-1,3-Dichloroprop...	7.561	79	19103	4.548	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.000%
46) 2-Hexanone-d5	8.037	63	81871	48.506	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.020%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	40097	4.560	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.200%
66) 1,2-Dichlorobenzene-d4	11.571	152	63127	5.271	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.108	85	49145	3.116	ug/L	100
5) Vinyl chloride	1.285	62	51082	3.520	ug/L	98
8) Chloroethane	1.552	64	104857	12.615	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.073	101	112542	9.639	ug/L	98
12) 1,1-Dichloroethene	2.073	96	23493	2.266	ug/L #	68
13) Acetone	2.163	43	288606	142.088	ug/L	84
15) Methyl Acetate	2.394	43	46497	12.810	ug/L #	83
16) Methylene chloride	2.455	84	2901	0.237	ug/L	95
18) trans-1,2-Dichloroethene	2.700	96	28699	2.628	ug/L	97
19) 1,1-Dichloroethane	3.121	63	42080	1.987	ug/L	96
22) cis-1,2-Dichloroethene	3.828	96	42963	3.919	ug/L	97
23) Bromochloromethane	4.162	128	24157	4.719	ug/L	94
25) Chloroform	4.288	83	164482	7.687	ug/L	95
27) 1,2-Dichloroethane	5.056	62	23828	1.842	ug/L	97
29) 1,1,1-Trichloroethane	4.523	97	39170	1.927	ug/L	98
31) Carbon tetrachloride	4.744	117	52082	2.824	ug/L	98
34) Trichloroethene	5.844	95	24924	2.058	ug/L	97
39) cis-1,3-Dichloropropene	6.963	75	64986	4.008	ug/L	97
40) 4-Methyl-2-pentanone	7.172	43	344781	56.743	ug/L	97

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

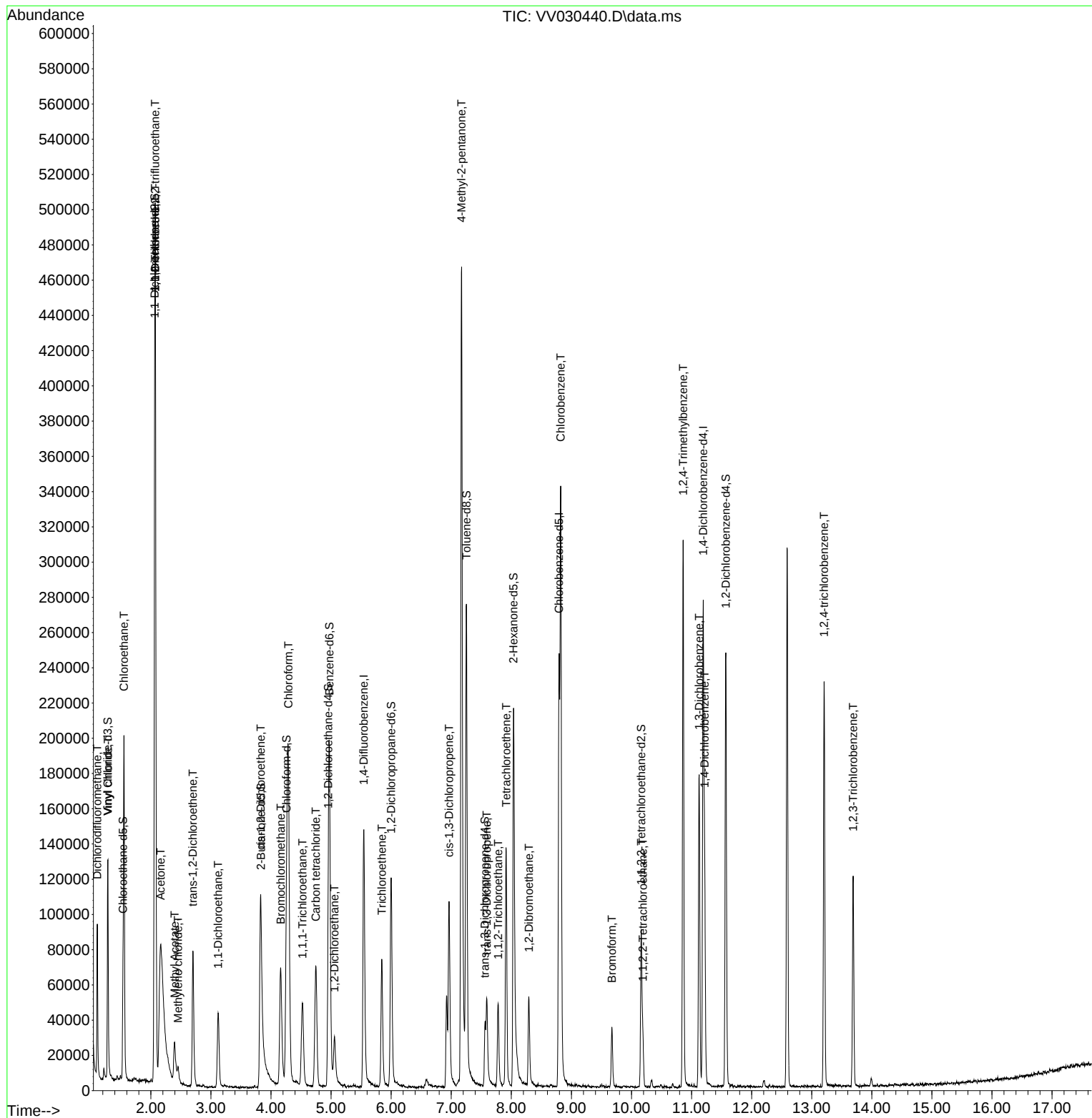
44) trans-1,3-Dichloropropene	7.593	75	28682	2.079	ug/L	100
45) 1,1,2-Trichloroethane	7.780	97	14370	1.770	ug/L	97
47) Tetrachloroethene	7.915	164	30468	2.850	ug/L	99
50) 1,2-Dibromoethane	8.291	107	32009	4.333	ug/L	95
51) Chlorobenzene	8.821	112	172791	5.641	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.188	83	12833	1.332	ug/L	98
59) Bromoform	9.674	173	16022	2.958	ug/L	95
63) 1,2,4-Trimethylbenzene	10.860	105	160985	3.917	ug/L	98
64) 1,3-Dichlorobenzene	11.127	146	71355	2.896	ug/L	100
65) 1,4-Dichlorobenzene	11.217	146	47032	1.895	ug/L	97
70) 1,2,4-trichlorobenzene	13.207	180	70010	4.779	ug/L	99
72) 1,2,3-Trichlorobenzene	13.689	180	34931	2.752	ug/L	99

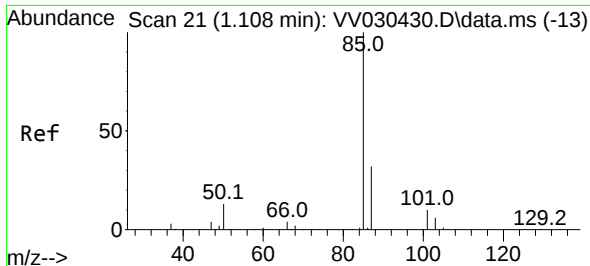
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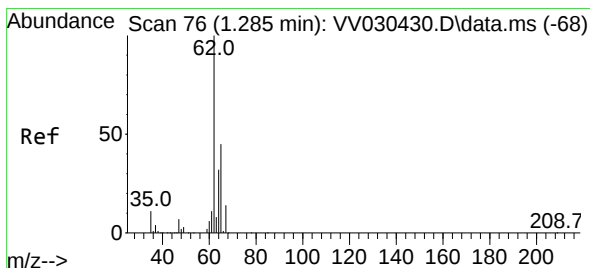
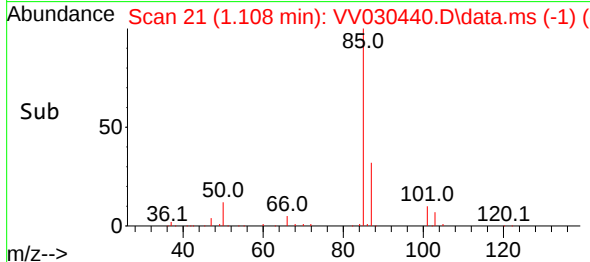
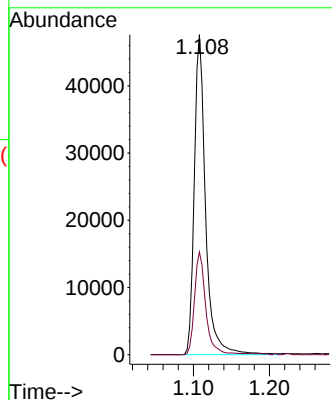
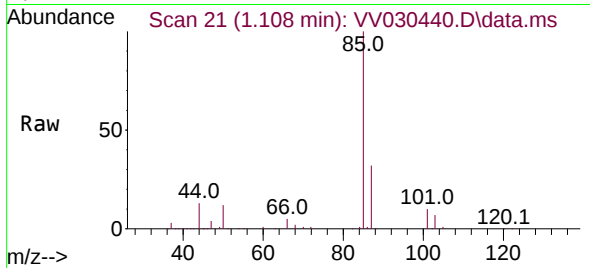




#2
 Dichlorodifluoromethane
 Concen: 3.116 ug/L
 RT: 1.108 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VV030440.D
 Acq: 07 Apr 2023 14:04

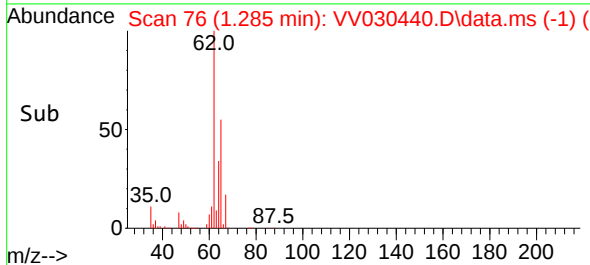
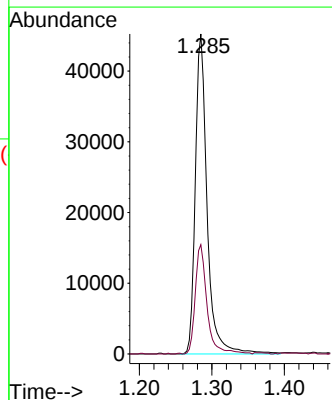
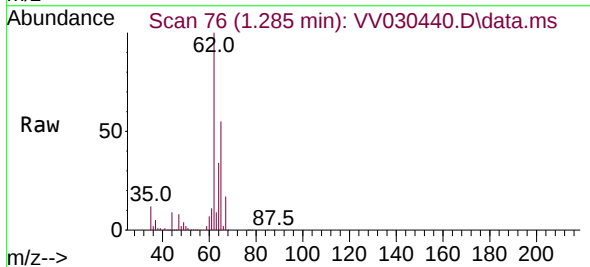
Instrument :
 MSVOA_V
 ClientSampleId :
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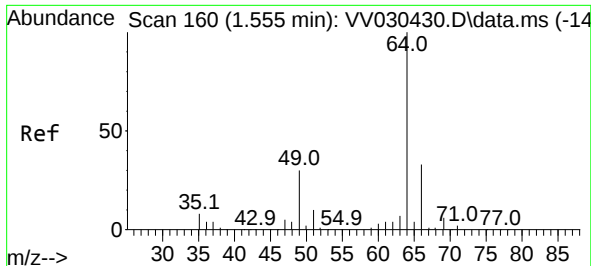
Tgt Ion: 85 Resp: 49145
 Ion Ratio Lower Upper
 85 100
 87 32.0 25.6 38.4



#5
 Vinyl chloride
 Concen: 3.520 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. 0.000 min
 Lab File: VV030440.D
 Acq: 07 Apr 2023 14:04

Tgt Ion: 62 Resp: 51082
 Ion Ratio Lower Upper
 62 100
 64 34.2 23.2 43.2

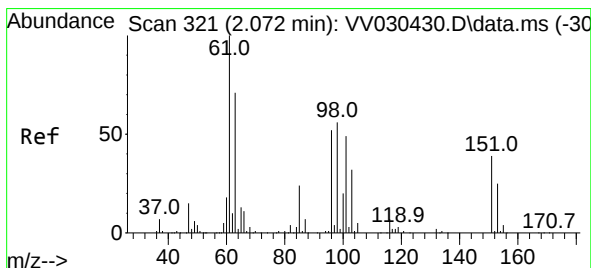
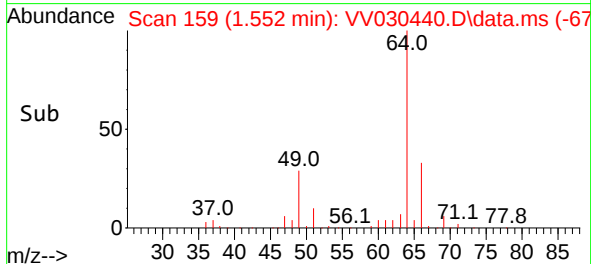
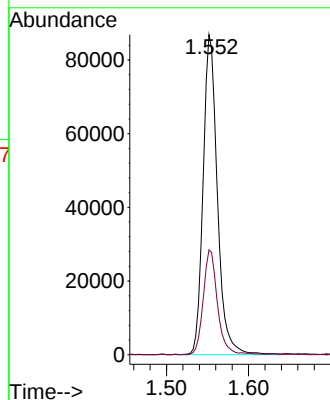
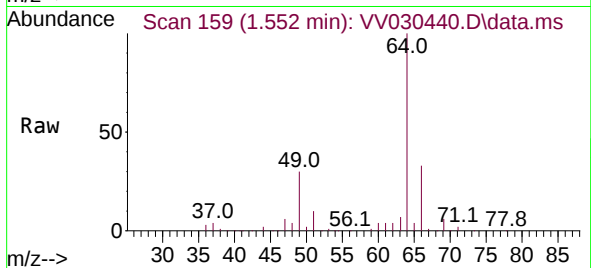




#8
Chloroethane
Concen: 12.615 ug/L
RT: 1.552 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

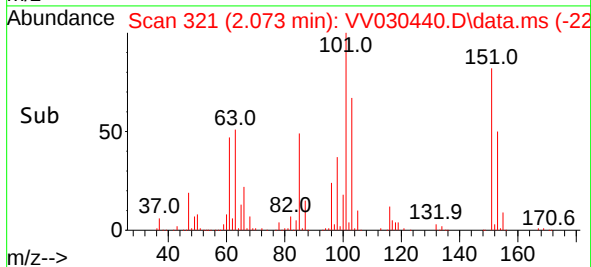
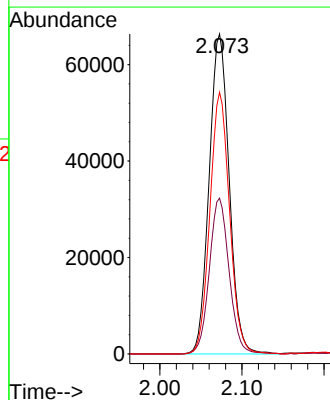
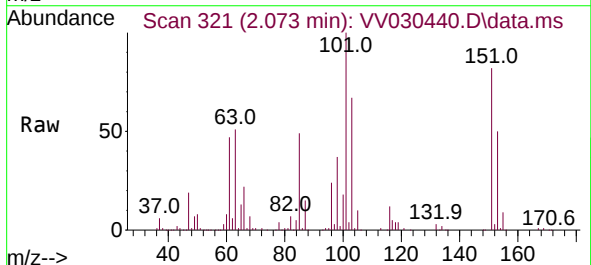
Instrument :
MSVOA_V
ClientSampleId :
C0AA0

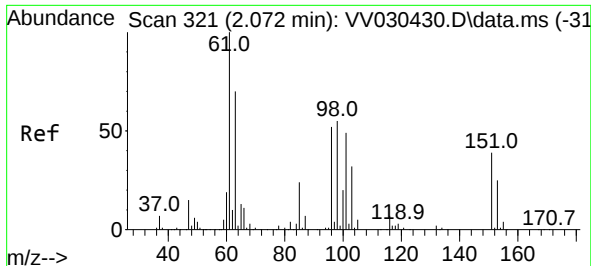
Tgt Ion: 64 Resp: 104857
Ion Ratio Lower Upper
64 100
66 32.7 23.0 42.8



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 9.639 ug/L
RT: 2.073 min Scan# 321
Delta R.T. 0.000 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

Tgt Ion:101 Resp: 112542
Ion Ratio Lower Upper
101 100
85 48.1 38.1 57.1
151 80.5 62.7 94.1





#12

1,1-Dichloroethene

Concen: 2.266 ug/L

RT: 2.073 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030440.D

Acq: 07 Apr 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

C0AA0

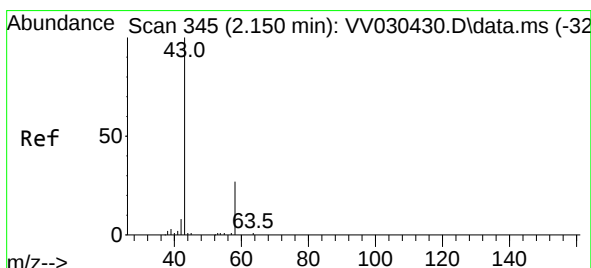
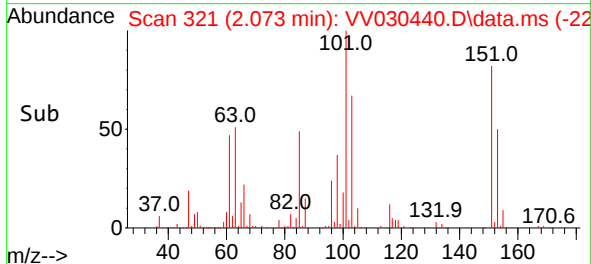
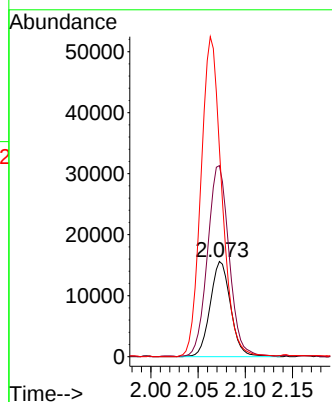
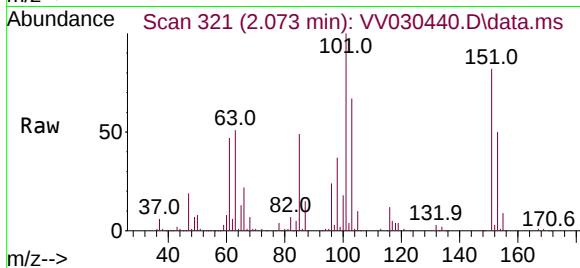
Tgt Ion: 96 Resp: 23493

Ion Ratio Lower Upper

96 100

61 200.6 136.3 253.1

63 218.7 92.1 171.1#



#13

Acetone

Concen: 142.088 ug/L

RT: 2.163 min Scan# 349

Delta R.T. 0.013 min

Lab File: VV030440.D

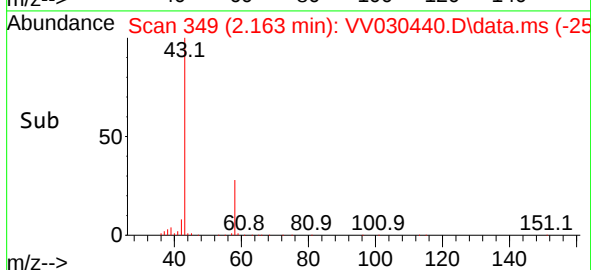
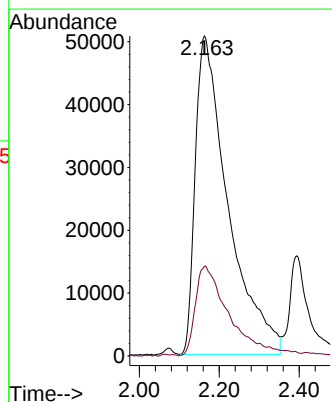
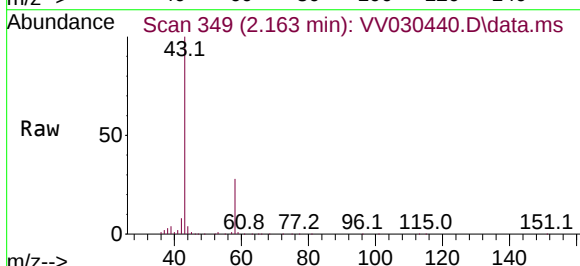
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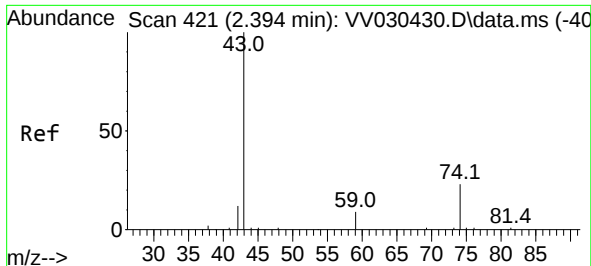
Tgt Ion: 43 Resp: 288606

Ion Ratio Lower Upper

43 100

58 27.7 0.0 40.8

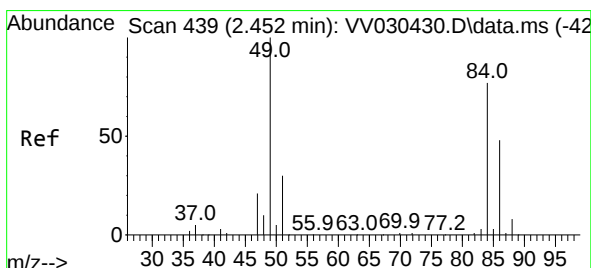
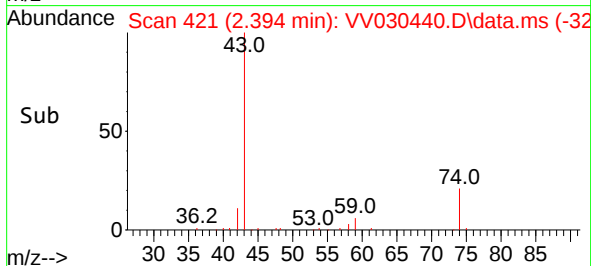
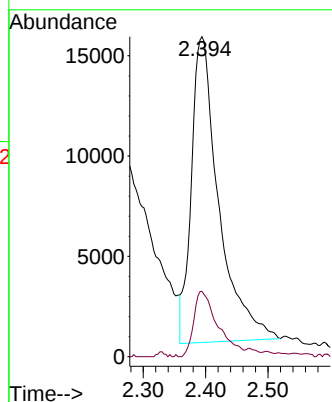
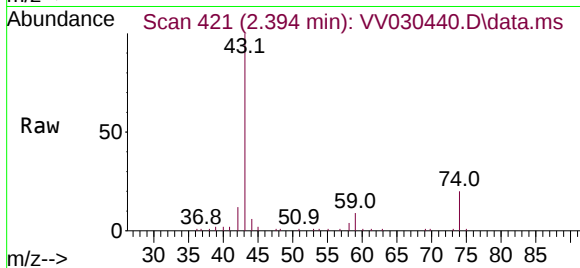




#15
Methyl Acetate
Concen: 12.810 ug/L
RT: 2.394 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

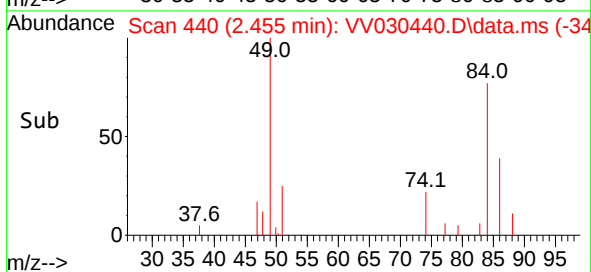
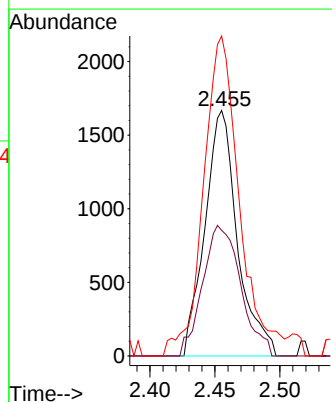
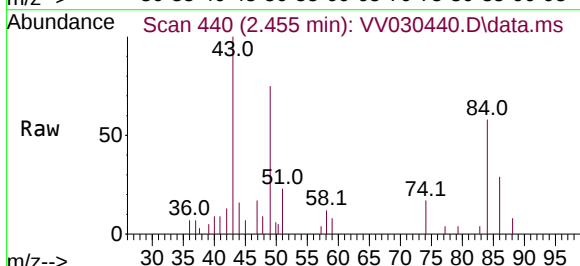
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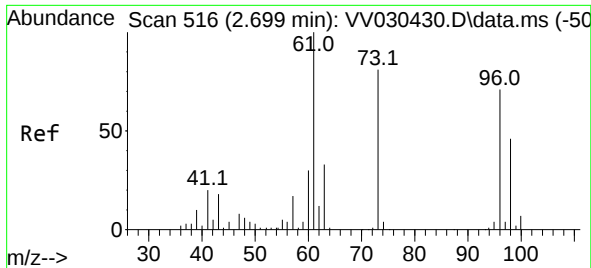
Tgt Ion: 43 Resp: 46497
Ion Ratio Lower Upper
43 100
74 18.8 22.1 33.1#



#16
Methylene chloride
Concen: 0.237 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

Tgt Ion: 84 Resp: 2901
Ion Ratio Lower Upper
84 100
86 51.1 44.0 81.6
49 130.3 90.6 168.3

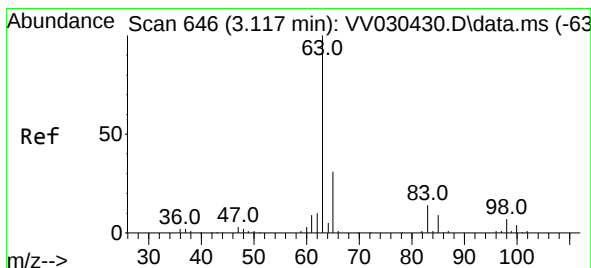
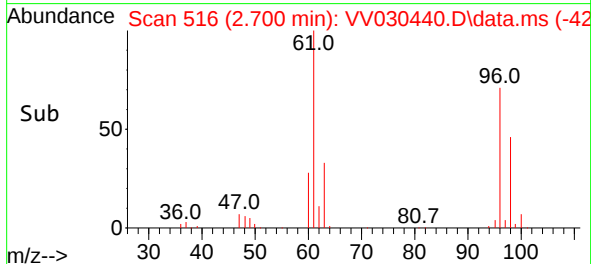
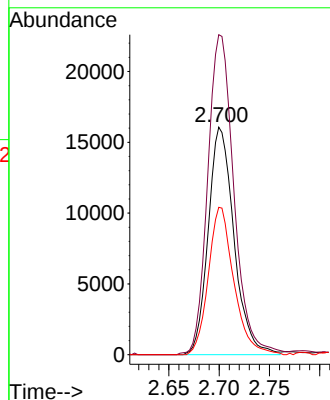
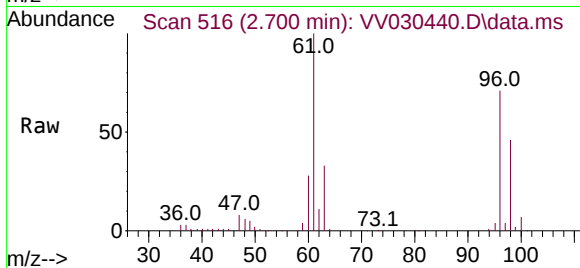




#18
trans-1,2-Dichloroethene
Concen: 2.628 ug/L
RT: 2.700 min Scan# 516
Delta R.T. 0.000 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

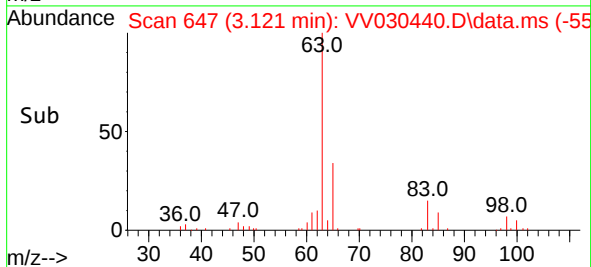
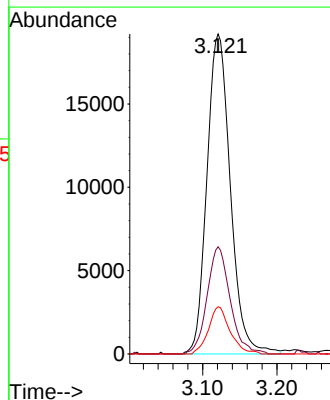
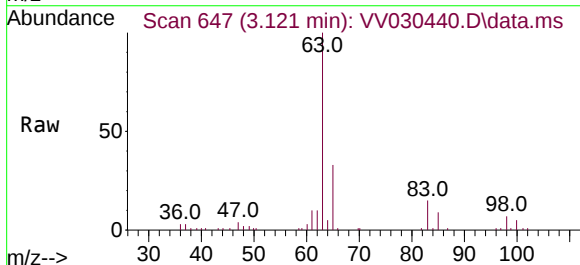
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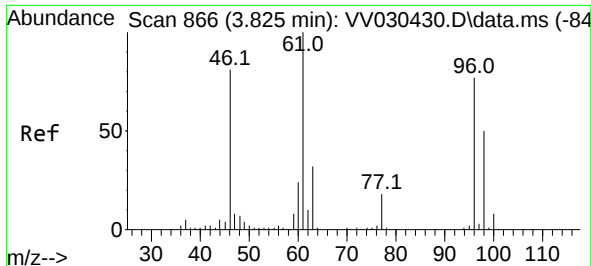
Tgt Ion: 96 Resp: 28699
Ion Ratio Lower Upper
96 100
61 140.6 101.7 188.9
98 64.8 45.8 85.2



#19
1,1-Dichloroethane
Concen: 1.987 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

Tgt Ion: 63 Resp: 42080
Ion Ratio Lower Upper
63 100
65 33.5 21.7 40.3
83 14.7 9.1 16.9



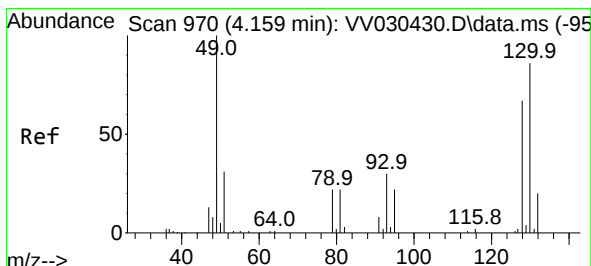
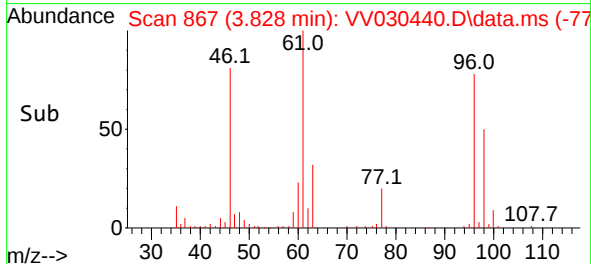
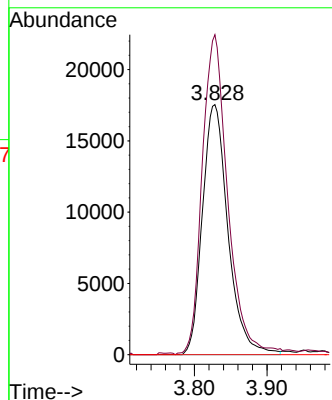
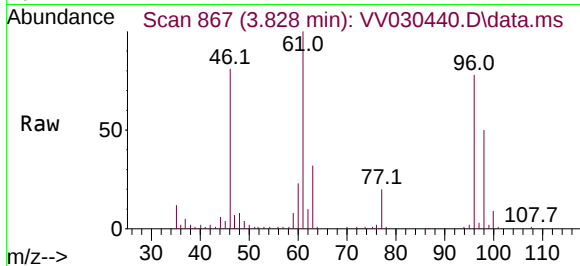


#22
 cis-1,2-Dichloroethene
 Concen: 3.919 ug/L
 RT: 3.828 min Scan# 866
 Delta R.T. 0.003 min
 Lab File: VV030440.D
 Acq: 07 Apr 2023 14:04

Instrument :
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 ClientSampleId :
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Tgt Ion: 96 Resp: 42963

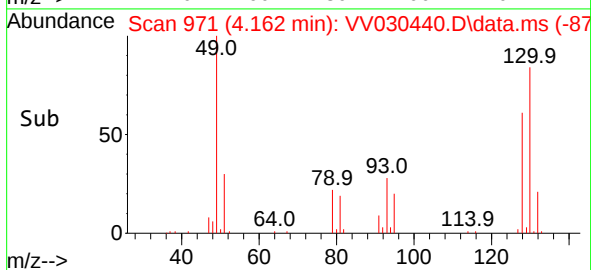
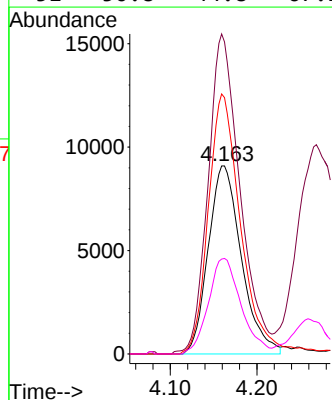
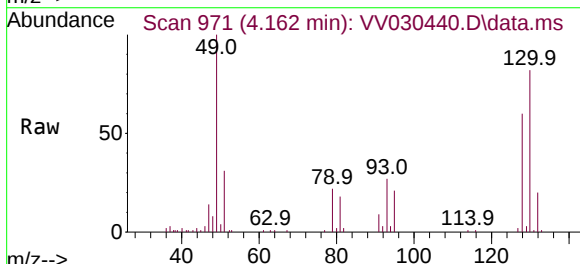
Ion	Ratio	Lower	Upper
96	100		
61	128.0	92.0	170.8
68	0.0	0.0	0.0

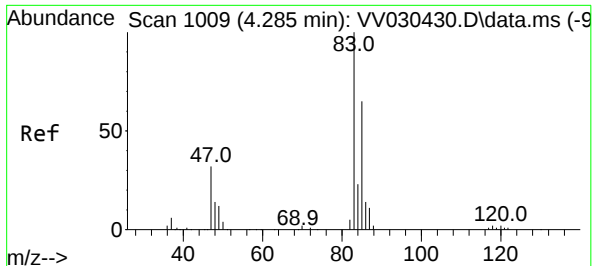


#23
 Bromochloromethane
 Concen: 4.719 ug/L
 RT: 4.162 min Scan# 971
 Delta R.T. 0.003 min
 Lab File: VV030440.D
 Acq: 07 Apr 2023 14:04

Tgt Ion: 128 Resp: 24157

Ion	Ratio	Lower	Upper
128	100		
49	165.9	119.4	221.8
130	136.3	89.2	165.8
51	50.8	44.8	67.2





#25

Chloroform

Concen: 7.687 ug/L

RT: 4.288 min Scan# 1009

Delta R.T. 0.003 min

Lab File: VV030440.D

Acq: 07 Apr 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

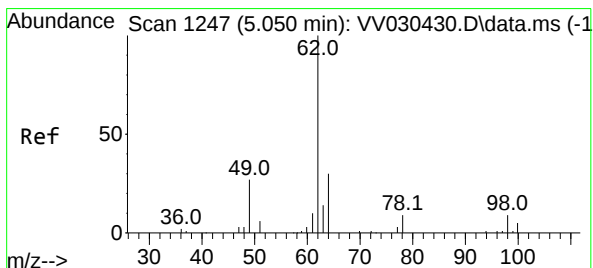
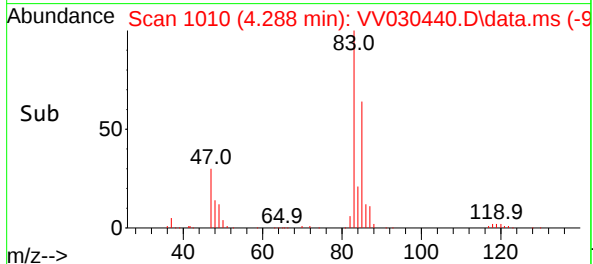
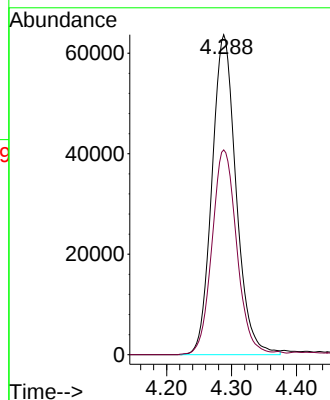
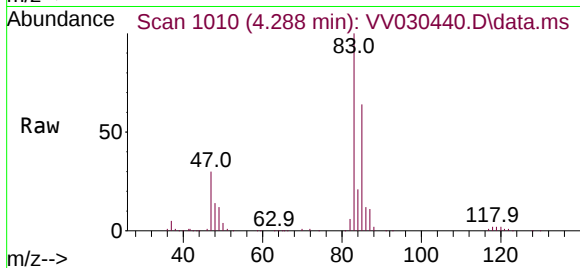
C0AA0

Tgt Ion: 83 Resp: 164482

Ion Ratio Lower Upper

83 100

85 64.0 47.6 88.4



#27

1,2-Dichloroethane

Concen: 1.842 ug/L

RT: 5.056 min Scan# 1249

Delta R.T. 0.007 min

Lab File: VV030440.D

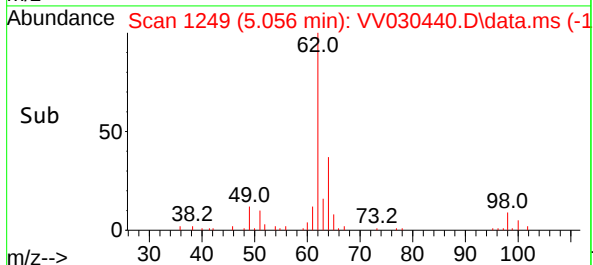
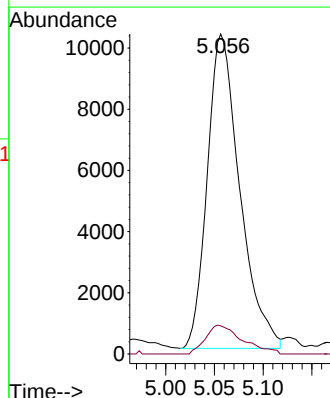
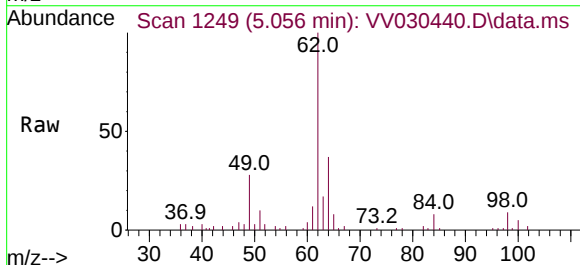
Acq: 07 Apr 2023 14:04

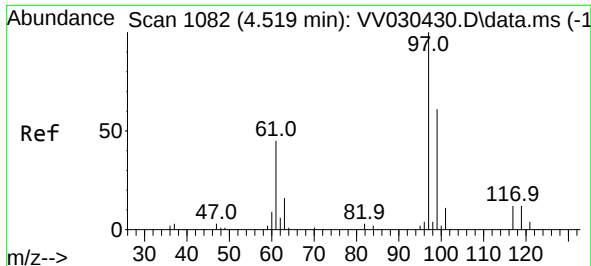
Tgt Ion: 62 Resp: 23828

Ion Ratio Lower Upper

62 100

98 8.8 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 1.927 ug/L

RT: 4.523 min Scan# 1082

Delta R.T. 0.003 min

Lab File: VV030440.D

Acq: 07 Apr 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

C0AA0

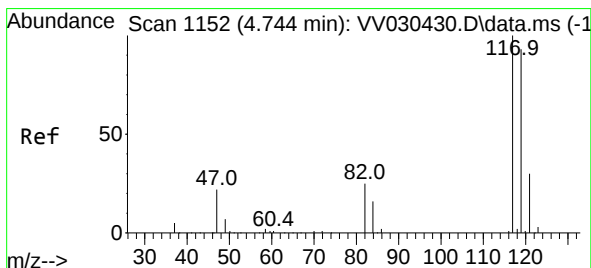
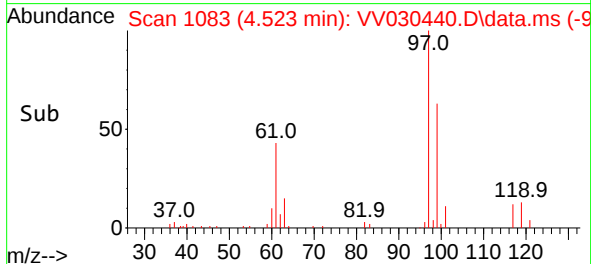
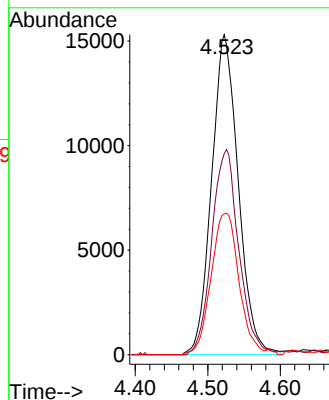
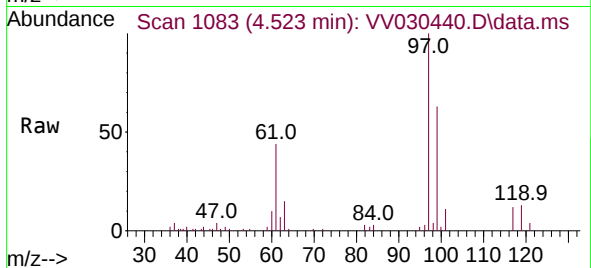
Tgt Ion: 97 Resp: 39170

Ion Ratio Lower Upper

97 100

99 65.0 50.9 76.3

61 46.0 35.9 53.9



#31

Carbon tetrachloride

Concen: 2.824 ug/L

RT: 4.744 min Scan# 1152

Delta R.T. 0.000 min

Lab File: VV030440.D

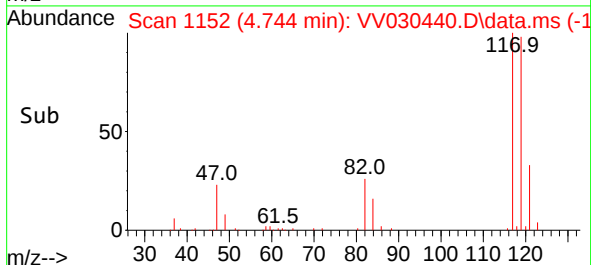
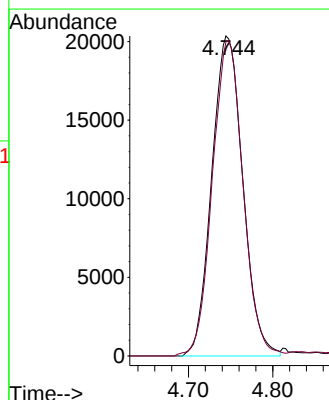
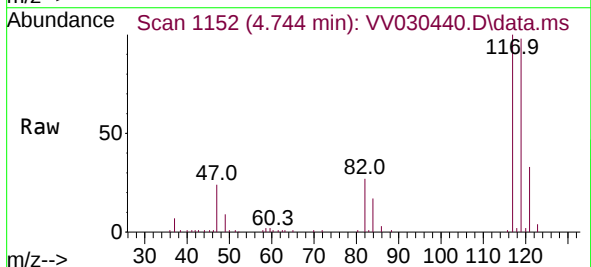
Acq: 07 Apr 2023 14:04

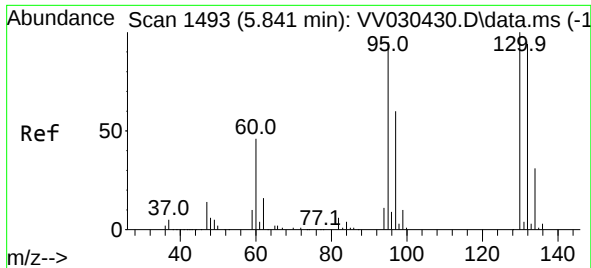
Tgt Ion: 117 Resp: 52082

Ion Ratio Lower Upper

117 100

119 97.3 76.2 114.4



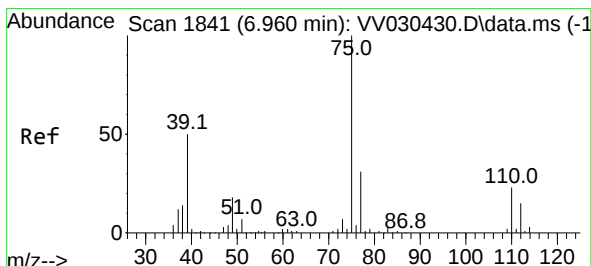
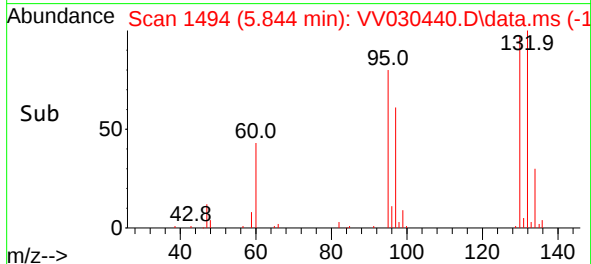
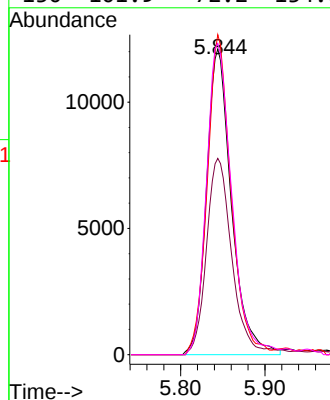
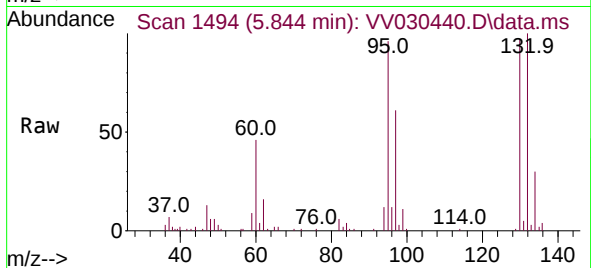


#34
 Trichloroethene
 Concen: 2.058 ug/L
 RT: 5.844 min Scan# 1494
 Delta R.T. 0.003 min
 Lab File: VV030440.D
 Acq: 07 Apr 2023 14:04

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AA0

Tgt Ion: 95 Resp: 24924

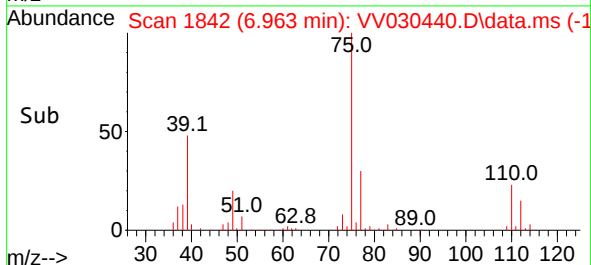
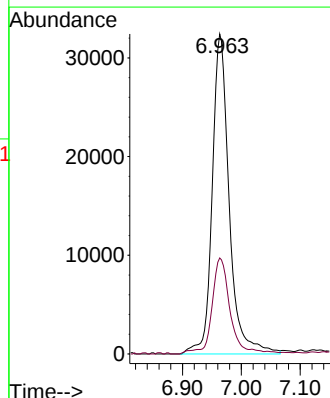
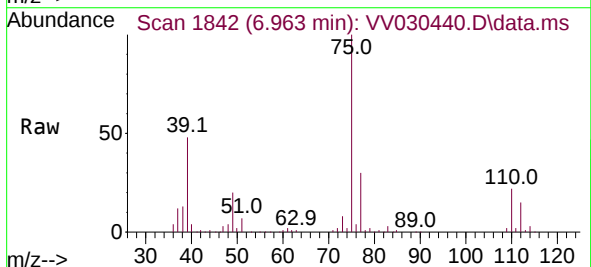
Ion	Ratio	Lower	Upper
95	100		
97	64.2	44.2	82.2
132	104.7	69.5	129.1
130	101.9	72.2	134.0

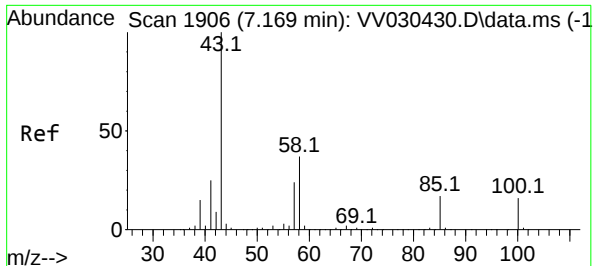


#39
 cis-1,3-Dichloropropene
 Concen: 4.008 ug/L
 RT: 6.963 min Scan# 1842
 Delta R.T. 0.003 min
 Lab File: VV030440.D
 Acq: 07 Apr 2023 14:04

Tgt Ion: 75 Resp: 64986

Ion	Ratio	Lower	Upper
75	100		
77	30.0	22.0	41.0





#40

4-Methyl-2-pentanone

Concen: 56.743 ug/L

RT: 7.172 min Scan# 1907

Delta R.T. 0.003 min

Lab File: VV030440.D

Acq: 07 Apr 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

C0AA0

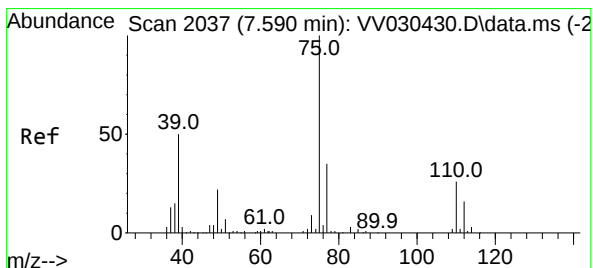
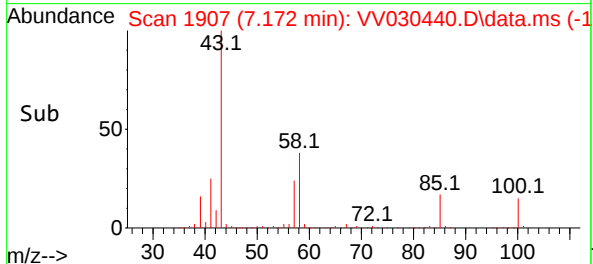
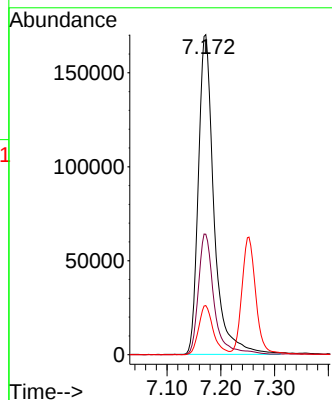
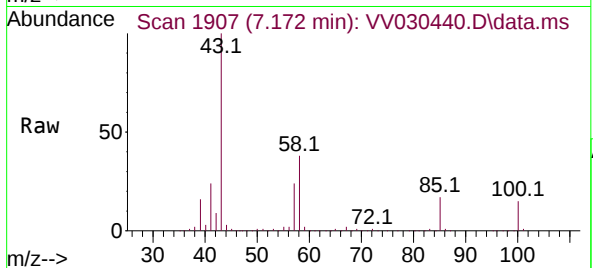
Tgt Ion: 43 Resp: 344781

Ion Ratio Lower Upper

43 100

58 38.2 28.8 43.2

100 14.4 10.7 16.1



#44

trans-1,3-Dichloropropene

Concen: 2.079 ug/L

RT: 7.593 min Scan# 2038

Delta R.T. 0.003 min

Lab File: VV030440.D

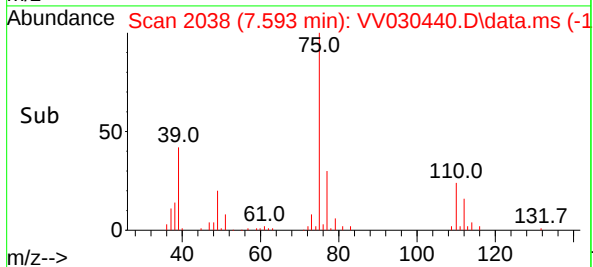
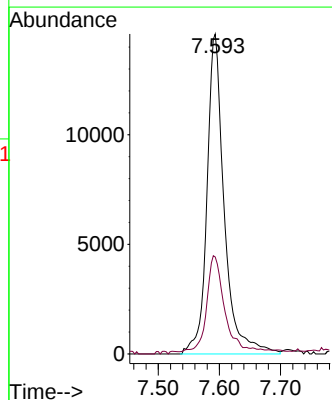
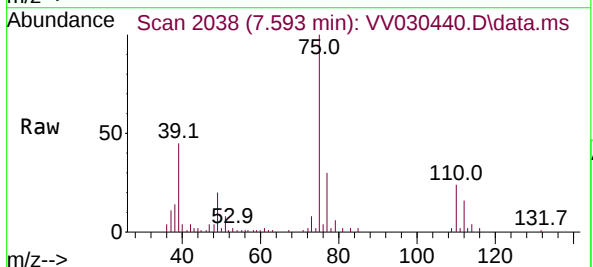
Acq: 07 Apr 2023 14:04

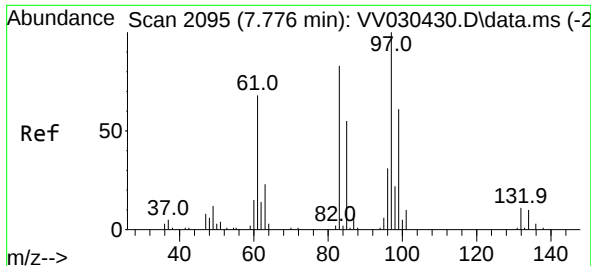
Tgt Ion: 75 Resp: 28682

Ion Ratio Lower Upper

75 100

77 30.3 21.2 39.4

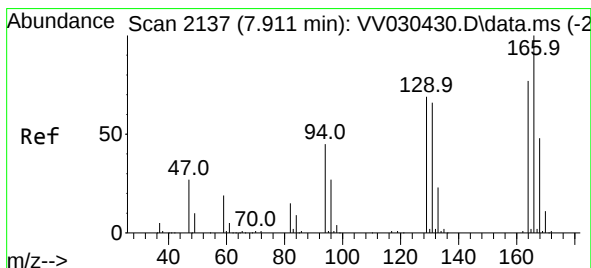
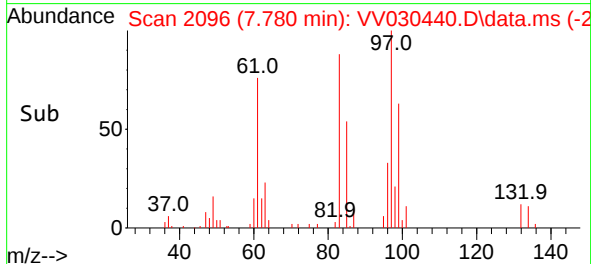
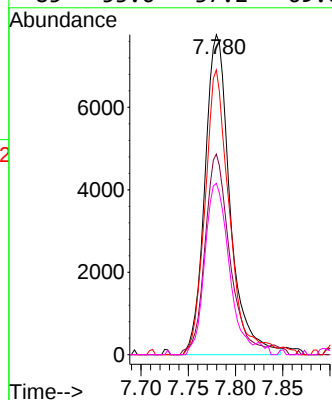
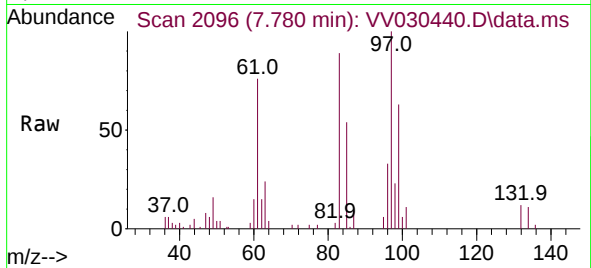




#45
1,1,2-Trichloroethane
Concen: 1.770 ug/L
RT: 7.780 min Scan# 2095
Delta R.T. 0.003 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

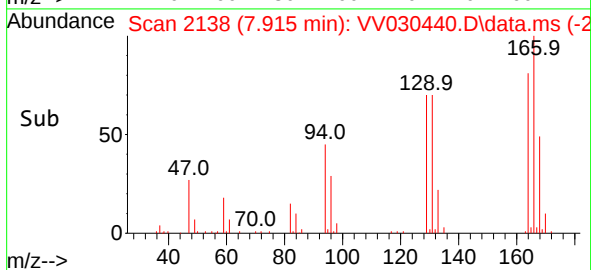
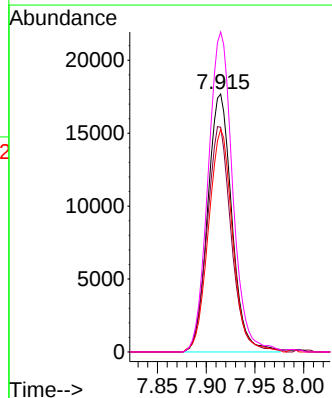
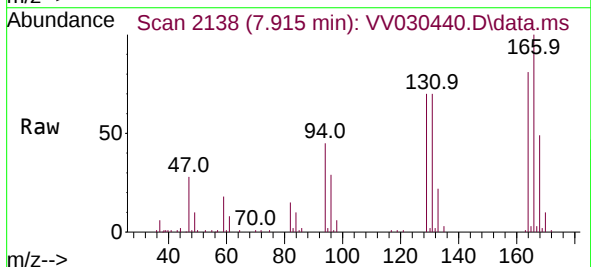
Instrument :
MSVOA_V
ClientSampleId :
C0AA0

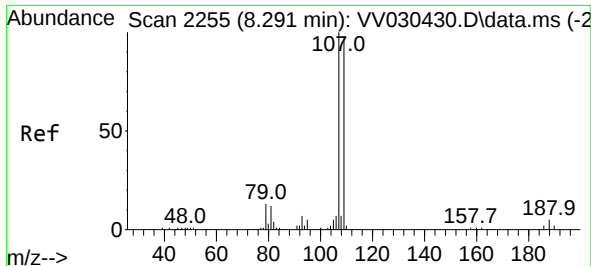
Tgt Ion: 97	Resp: 14370
Ion Ratio	Lower Upper
97 100	
99 62.7	44.0 81.8
83 89.0	58.8 109.2
85 53.6	37.2 69.0



#47
Tetrachloroethene
Concen: 2.850 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. 0.003 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

Tgt	Ion:164	Resp:	30468
Ion	Ratio	Lower	Upper
164	100		
129	87.2	60.8	112.8
131	86.3	61.7	114.7
166	124.1	85.6	159.0





#50

1,2-Dibromoethane

Concen: 4.333 ug/L

RT: 8.291 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV030440.D

Acq: 07 Apr 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

C0AA0

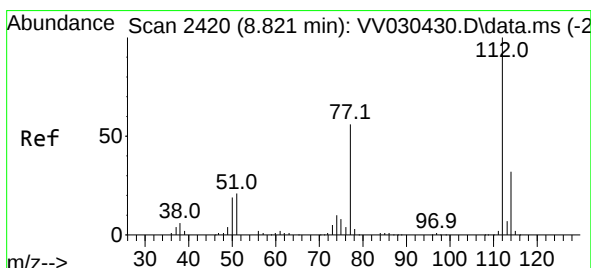
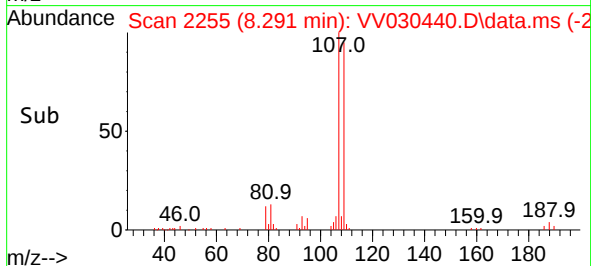
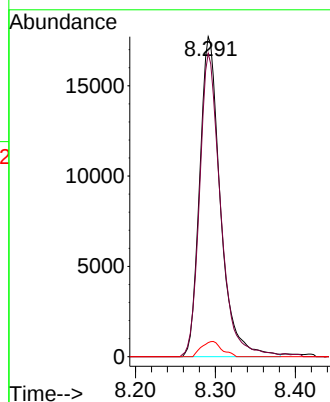
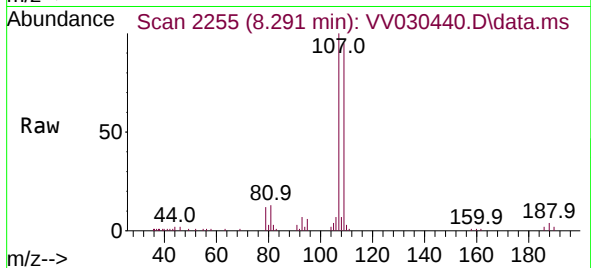
Tgt Ion:107 Resp: 32009

Ion Ratio Lower Upper

107 100

109 94.8 62.9 116.9

188 4.4 3.0 4.6



#51

Chlorobenzene

Concen: 5.641 ug/L

RT: 8.821 min Scan# 2420

Delta R.T. 0.000 min

Lab File: VV030440.D

Acq: 07 Apr 2023 14:04

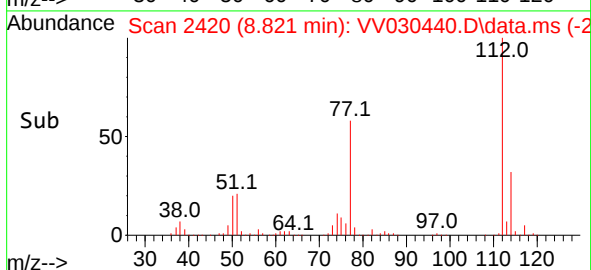
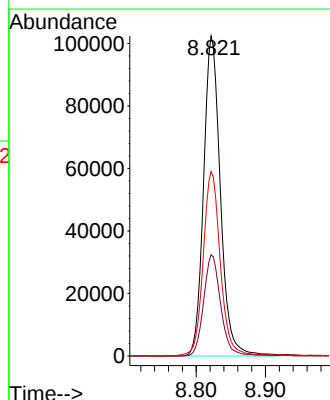
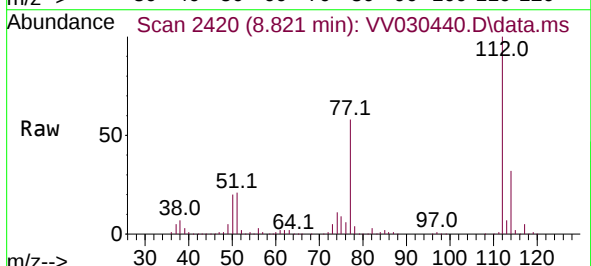
Tgt Ion:112 Resp: 172791

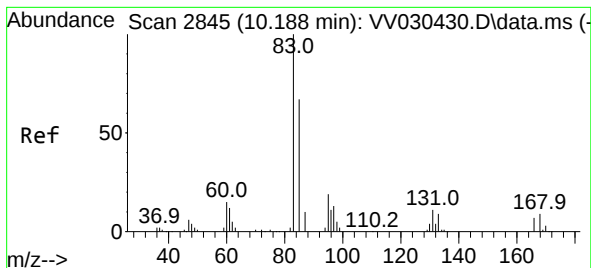
Ion Ratio Lower Upper

112 100

114 31.6 22.4 41.6

77 57.6 45.9 68.9





#57

1,1,2,2-Tetrachloroethane

Concen: 1.332 ug/L

RT: 10.188 min Scan# 2845

Delta R.T. 0.000 min

Lab File: VV030440.D

Acq: 07 Apr 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

C0AA0

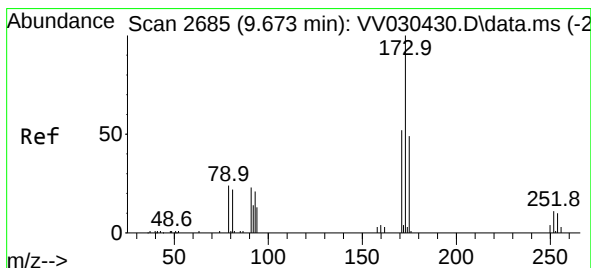
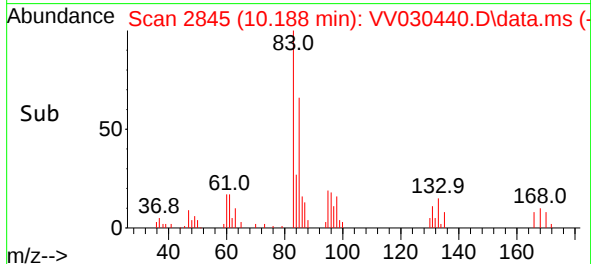
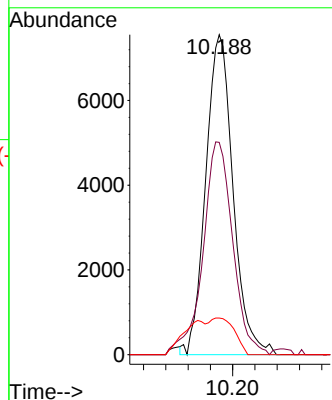
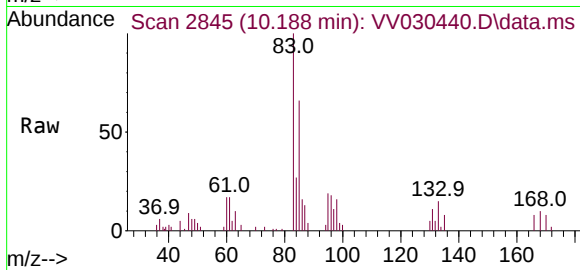
Tgt Ion: 83 Resp: 12833

Ion Ratio Lower Upper

83 100

85 66.3 45.3 84.1

131 11.5 8.2 12.4



#59

Bromoform

Concen: 2.958 ug/L

RT: 9.674 min Scan# 2685

Delta R.T. 0.000 min

Lab File: VV030440.D

Acq: 07 Apr 2023 14:04

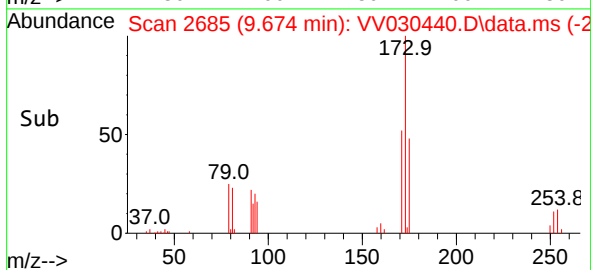
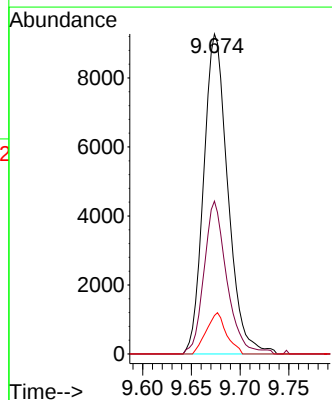
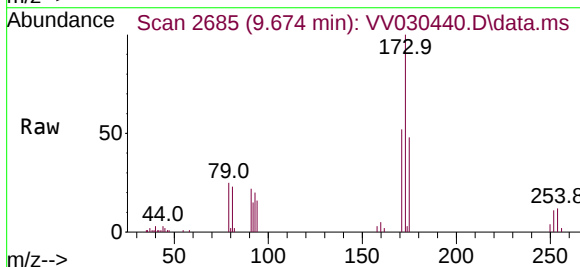
Tgt Ion: 173 Resp: 16022

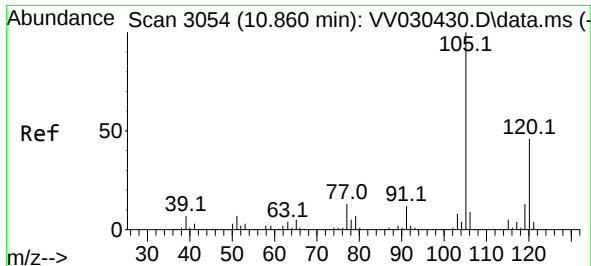
Ion Ratio Lower Upper

173 100

175 45.1 39.0 58.4

254 10.7 8.2 12.4

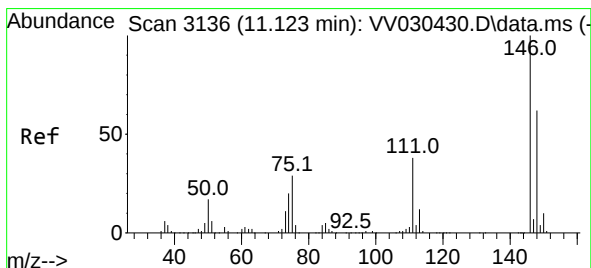
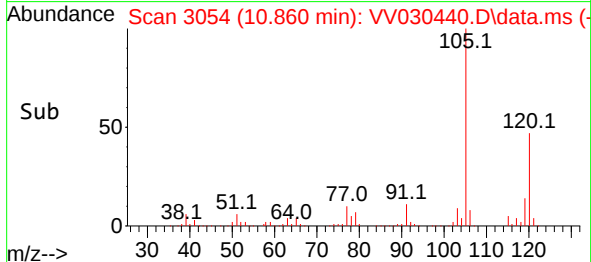
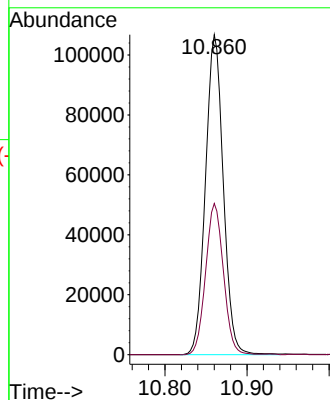
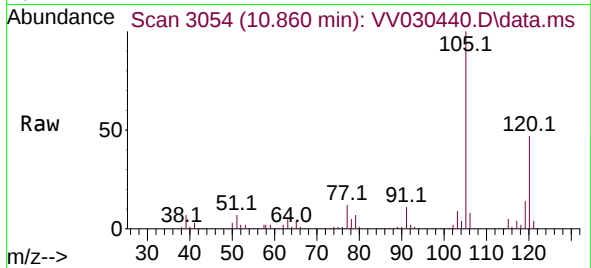




#63
1,2,4-Trimethylbenzene
Concen: 3.917 ug/L
RT: 10.860 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

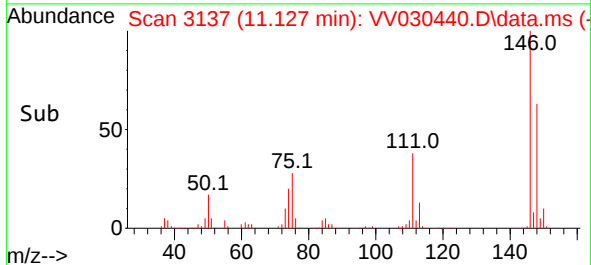
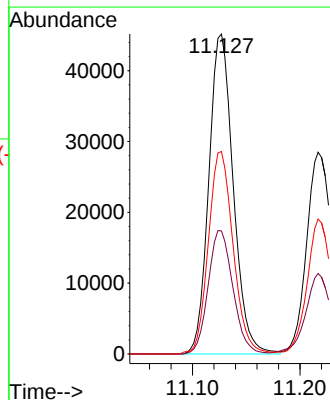
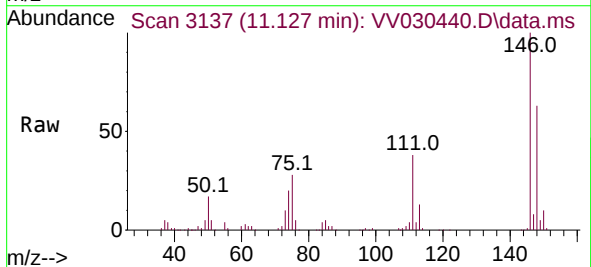
Instrument :
MSVOA_V
ClientSampleId :
C0AA0

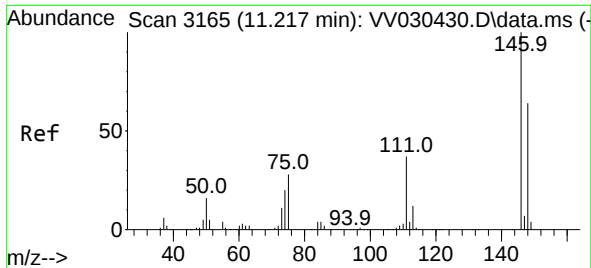
Tgt Ion:105 Resp: 160985
Ion Ratio Lower Upper
105 100
120 47.2 36.8 55.2



#64
1,3-Dichlorobenzene
Concen: 2.896 ug/L
RT: 11.127 min Scan# 3137
Delta R.T. 0.003 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

Tgt Ion:146 Resp: 71355
Ion Ratio Lower Upper
146 100
111 38.4 27.0 50.2
148 63.3 44.2 82.2

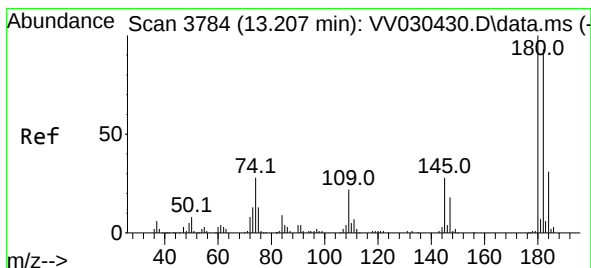
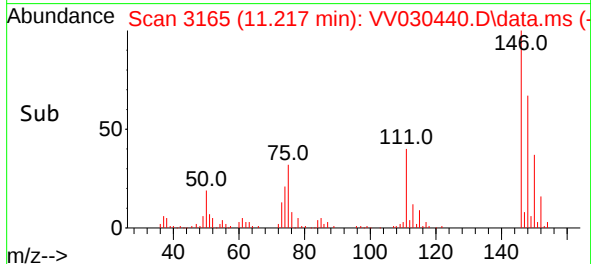
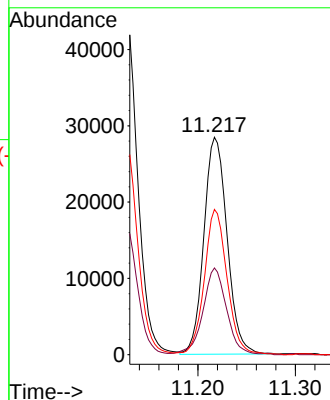
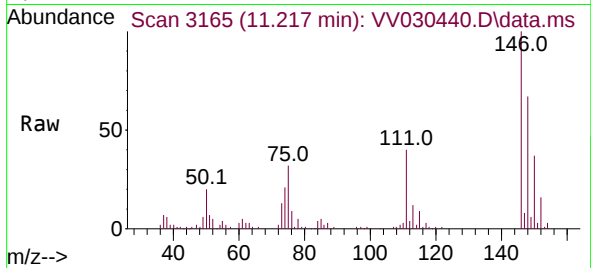




#65
1,4-Dichlorobenzene
Concen: 1.895 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

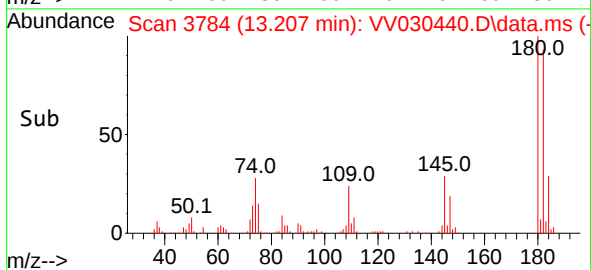
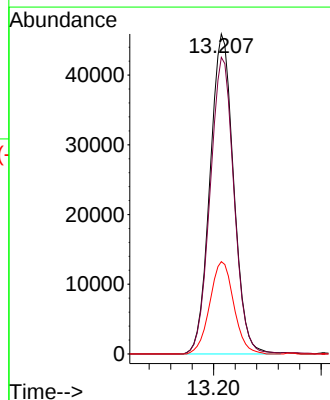
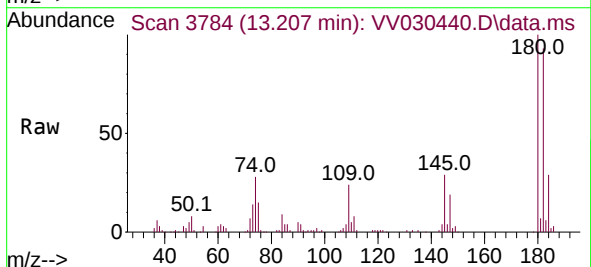
Instrument :
MSVOA_V
ClientSampleId :
C0AA0

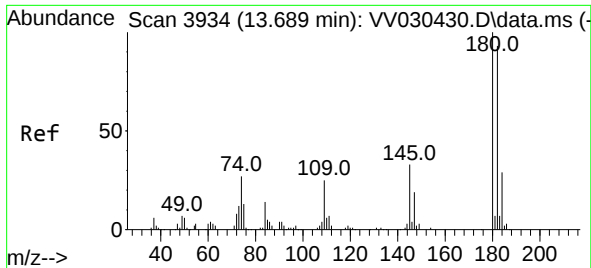
Tgt Ion:146 Resp: 47032
Ion Ratio Lower Upper
146 100
111 39.9 26.0 48.4
148 66.8 45.2 84.0



#70
1,2,4-trichlorobenzene
Concen: 4.779 ug/L
RT: 13.207 min Scan# 3784
Delta R.T. 0.000 min
Lab File: VV030440.D
Acq: 07 Apr 2023 14:04

Tgt Ion:180 Resp: 70010
Ion Ratio Lower Upper
180 100
182 93.6 75.3 112.9
145 29.3 23.8 35.6





#72
 1,2,3-Trichlorobenzene
 Concen: 2.752 ug/L
 RT: 13.689 min Scan# 3934
 Delta R.T. 0.000 min
 Lab File: VV030440.D
 Acq: 07 Apr 2023 14:04

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AA0

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.6	115.0
145	31.4	25.0	37.4

