

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092424\
 Data File : VW030224.D
 Acq On : 24 Sep 2024 15:15
 Operator : SY/MD
 Sample : P4131-20
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 25 01:21:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM091624SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Sep 25 01:17:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	277177	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	245645	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	121797	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	77593	21.677	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.720%
7) Chloroethane-d5	2.899	69	65652	25.980	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.920%
11) 1,1-Dichloroethene-d2	4.021	65	31931	17.854	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	71.400%
21) 2-Butanone-d5	7.075	46	39179	45.203	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.400%
24) Chloroform-d	7.655	84	179481	23.550	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.200%
26) 1,2-Dichloroethane-d4	8.307	65	84139	21.985	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	87.960%
32) Benzene-d6	8.276	84	292029	20.636	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	82.560%
36) 1,2-Dichloropropane-d6	9.276	67	88515	20.259	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	81.040%
41) Toluene-d8	10.325	98	277063	21.848	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	87.400%
43) trans-1,3-Dichloroprop...	10.575	79	37365	21.345	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.400%
47) 2-Hexanone-d5	10.922	63	33402	49.959	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.920%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	76229	23.434	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.720%
66) 1,2-Dichlorobenzene-d4	13.849	152	88346	21.368	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	85.480%
Target Compounds						
					Qvalue	
13) Acetone	4.119	43	75976	76.404	ug/L	99
16) Methylene chloride	4.917	84	305064	74.639	ug/L	99
17) trans-1,2-Dichloroethene	5.435	96	113887	31.224	ug/L	95
18) Methyl tert-butyl Ether	5.429	73	246087	42.810	ug/L	97
19) 1,1-Dichloroethane	6.222	63	601343	81.193	ug/L	99
22) 2-Butanone	7.167	43	232883	197.844	ug/L	100
25) Chloroform	7.679	83	644639	85.696	ug/L	96
30) 1,1,1-Trichloroethane	7.868	97	4160	0.700	ug/L #	88
31) Carbon tetrachloride	8.069	117	85159	15.773	ug/L	97
33) Benzene	8.325	78	985071	65.590	ug/L	100
34) Trichloroethene	9.093	95	389345	96.034	ug/L	95
37) 1,2-Dichloropropane	9.368	63	140234	34.450	ug/L	100
39) cis-1,3-Dichloropropene	10.069	75	374750	62.930	ug/L	97
40) 4-Methyl-2-pentanone	10.209	43	301741	145.069	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	354461	70.757	ug/L	98
45) 1,1,2-Trichloroethane	10.782	97	139109	46.964	ug/L	97
50) 1,2-Dibromoethane	11.233	107	123252	45.127	ug/L	99
53) m,p-Xylene	11.831	106	343818	51.082	ug/L	88
54) o-Xylene	12.160	106	418357	66.054	ug/L	99

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

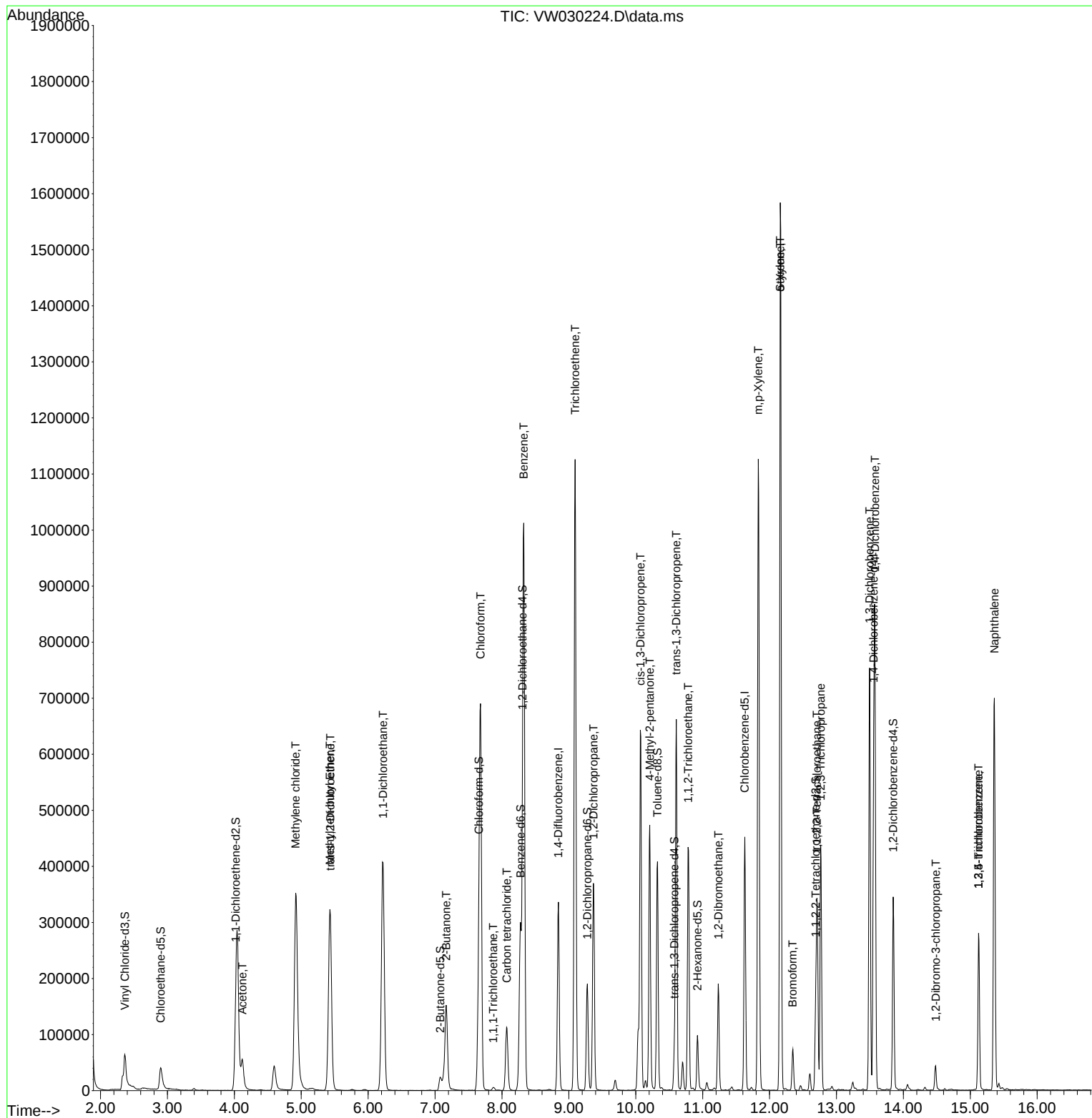
55) Styrene	12.160	104	22023	2.005	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	160471	45.388	ug/L	100
59) Bromoform	12.343	173	32776	17.003	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	181568	71.658	ug/L	97
64) 1,3-Dichlorobenzene	13.495	146	295991	37.243	ug/L	97
65) 1,4-Dichlorobenzene	13.574	146	299097	36.427	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.483	75	11377	20.588	ug/L #	89
69) 1,3,5-Trichlorobenzene	15.123	180	84329	15.201	ug/L	97
70) 1,2,4-trichlorobenzene	15.123	180	84329	18.766	ug/L	98
71) Naphthalene	15.360	128	600112	73.541	ug/L	99

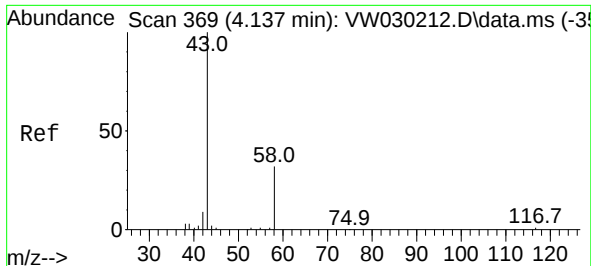
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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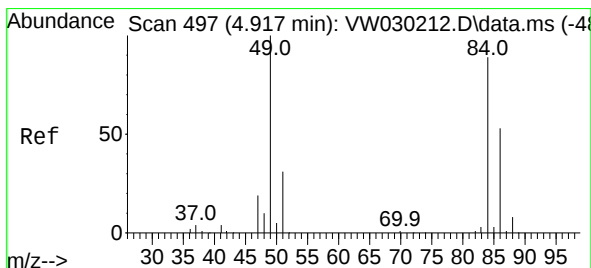
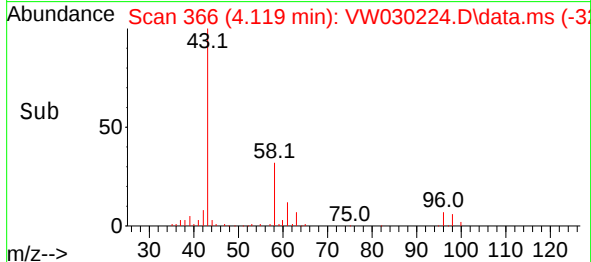
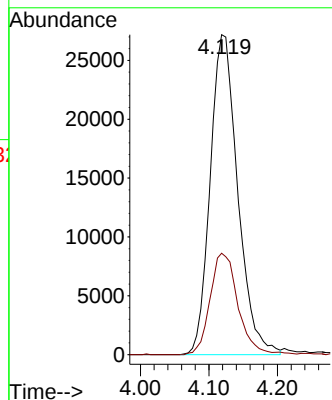
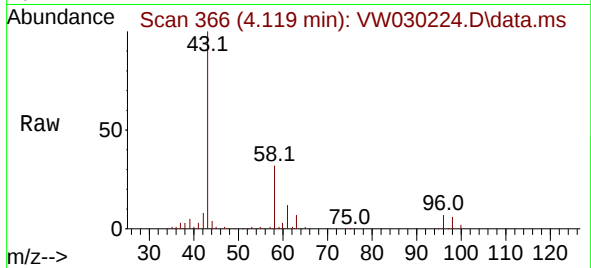




#13
Acetone
Concen: 76.404 ug/L
RT: 4.119 min Scan# 366
Delta R.T. -0.018 min
Lab File: VW030224.D
Acq: 24 Sep 2024 15:15

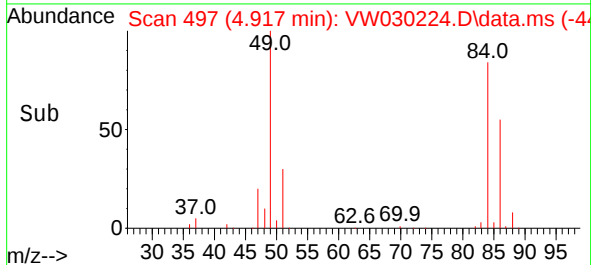
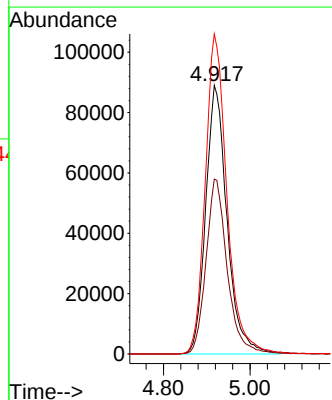
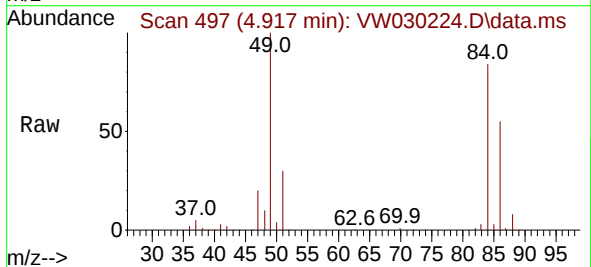
Instrument :
MSVOA_W
ClientSampleId :

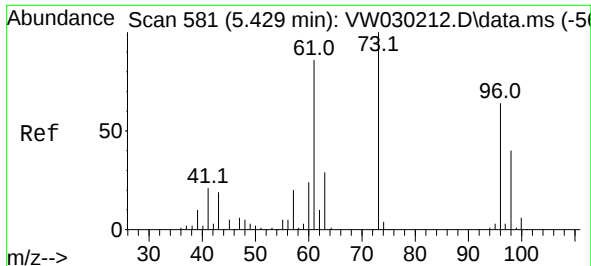
Tgt Ion: 43 Resp: 75976
Ion Ratio Lower Upper
43 100
58 31.7 0.0 65.0



#16
Methylene chloride
Concen: 74.639 ug/L
RT: 4.917 min Scan# 497
Delta R.T. 0.000 min
Lab File: VW030224.D
Acq: 24 Sep 2024 15:15

Tgt Ion: 84 Resp: 305064
Ion Ratio Lower Upper
84 100
86 65.1 44.6 82.8
49 119.1 83.8 155.6





#17

trans-1,2-Dichloroethene

Concen: 31.224 ug/L

RT: 5.435 min Scan# 582

Delta R.T. 0.006 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

ClientSampleId :

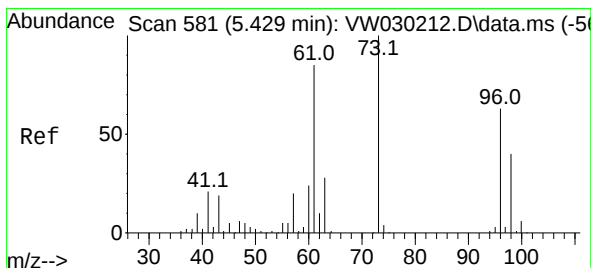
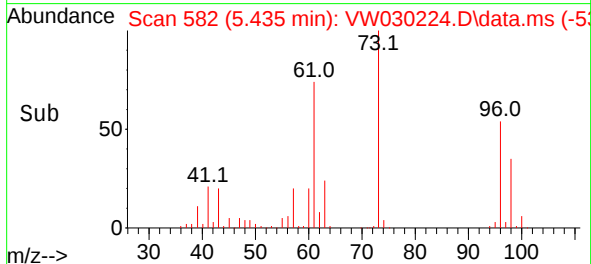
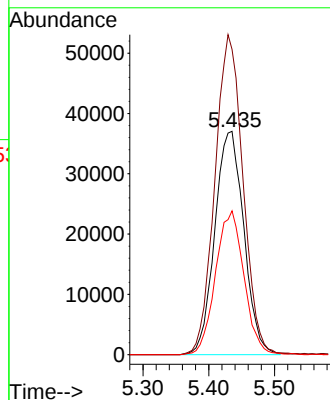
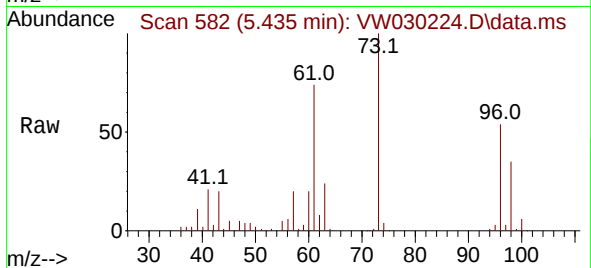
Tgt Ion: 96 Resp: 113887

Ion Ratio Lower Upper

96 100

61 136.7 100.8 187.2

98 64.4 43.0 80.0



#18

Methyl tert-butyl Ether

Concen: 42.810 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

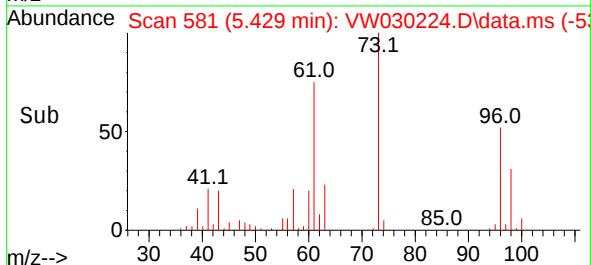
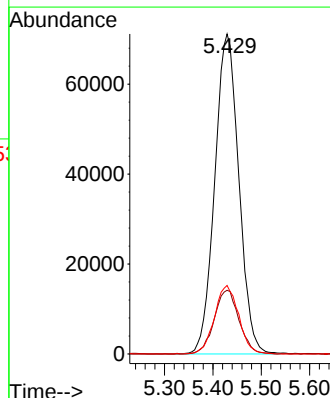
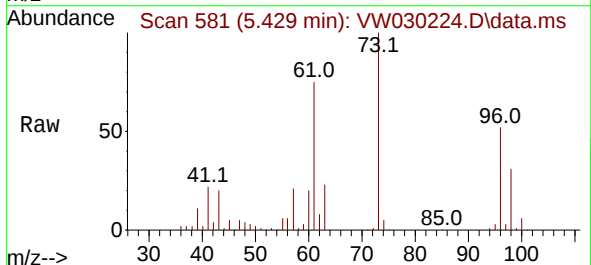
Tgt Ion: 73 Resp: 246087

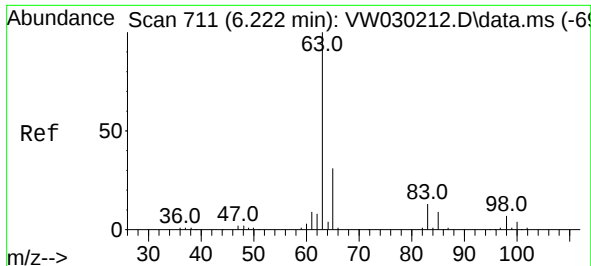
Ion Ratio Lower Upper

73 100

43 20.6 15.7 23.5

57 21.5 18.8 28.2





#19

1,1-Dichloroethane

Concen: 81.193 ug/L

RT: 6.222 min Scan# 711

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

ClientSampleId :

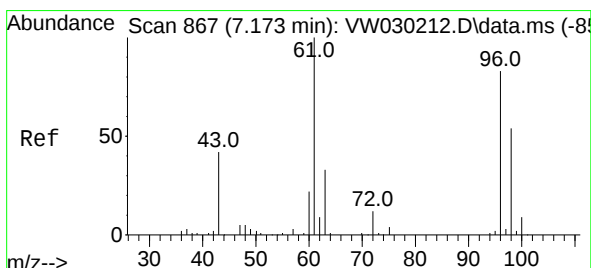
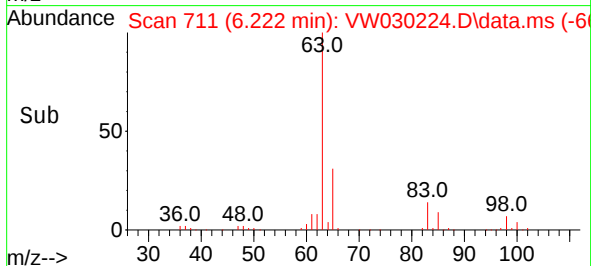
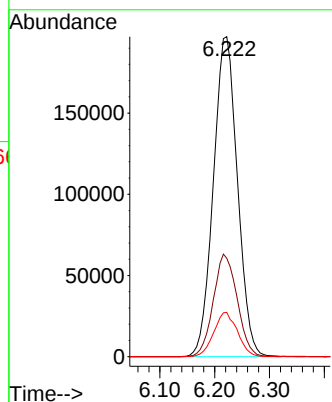
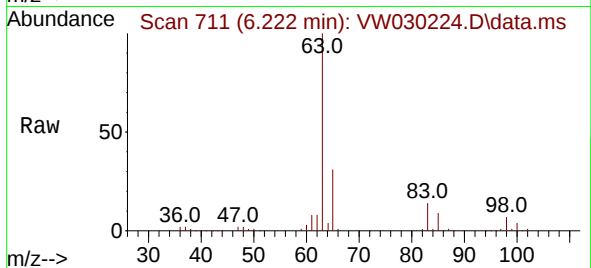
Tgt Ion: 63 Resp: 601343

Ion Ratio Lower Upper

63 100

65 30.8 21.6 40.0

83 13.9 9.0 16.8



#22

2-Butanone

Concen: 197.844 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.006 min

Lab File: VW030224.D

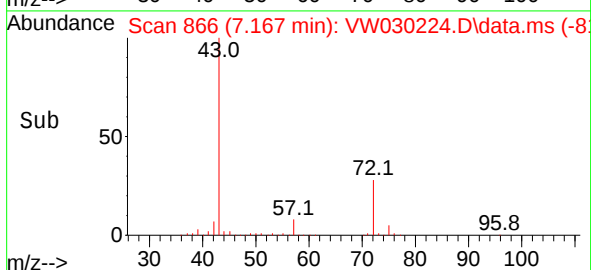
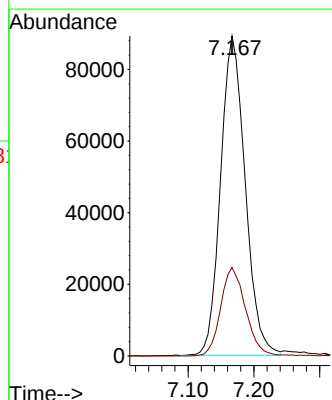
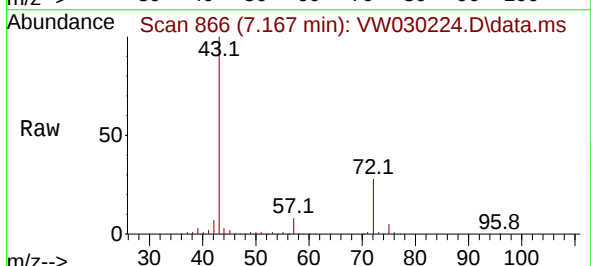
Acq: 24 Sep 2024 15:15

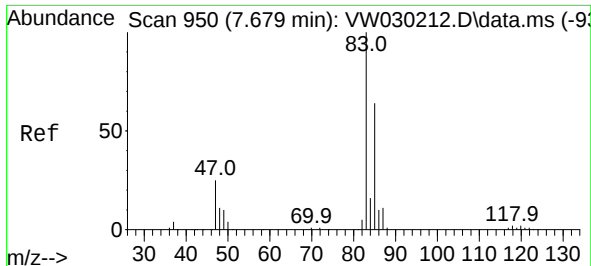
Tgt Ion: 43 Resp: 232883

Ion Ratio Lower Upper

43 100

72 27.8 13.9 41.7





#25

Chloroform

Concen: 85.696 ug/L

RT: 7.679 min Scan# 9

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

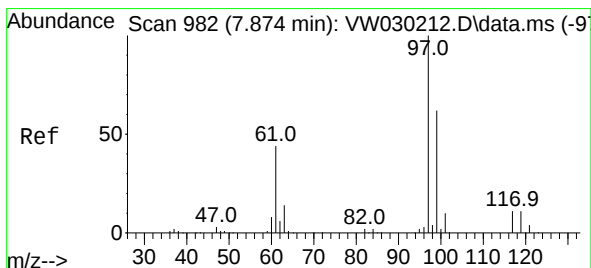
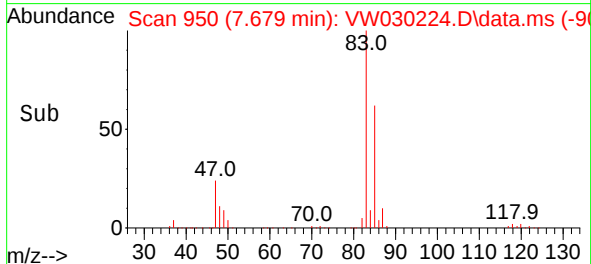
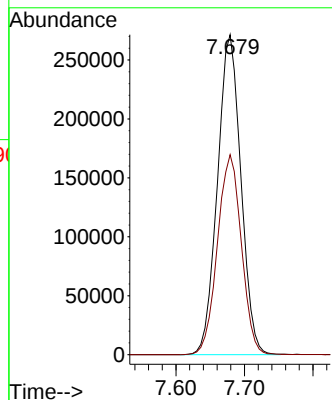
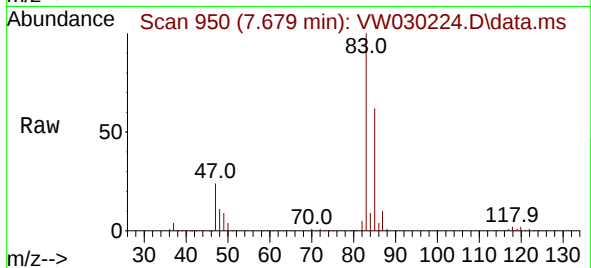
ClientSampleId :

Tgt Ion: 83 Resp: 644639

Ion Ratio Lower Upper

83 100

85 62.5 46.1 85.5



#30

1,1,1-Trichloroethane

Concen: 0.700 ug/L

RT: 7.868 min Scan# 981

Delta R.T. -0.006 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

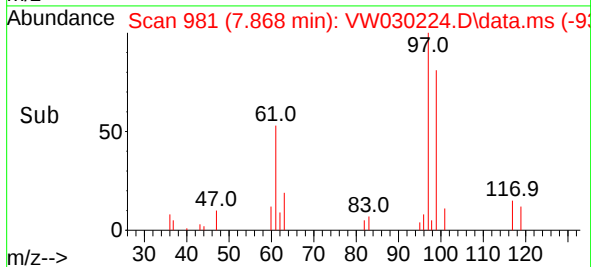
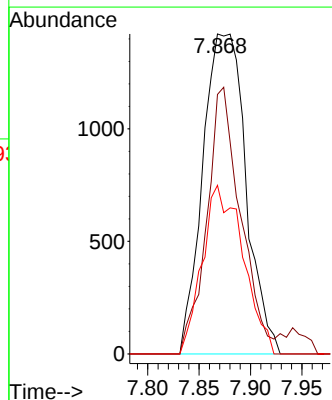
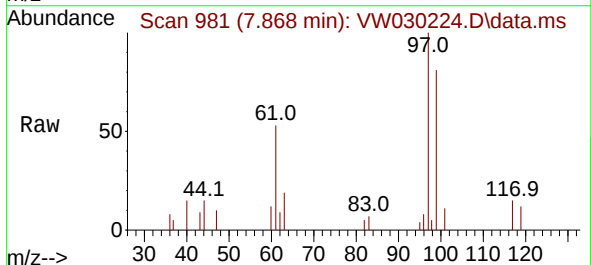
Tgt Ion: 97 Resp: 4160

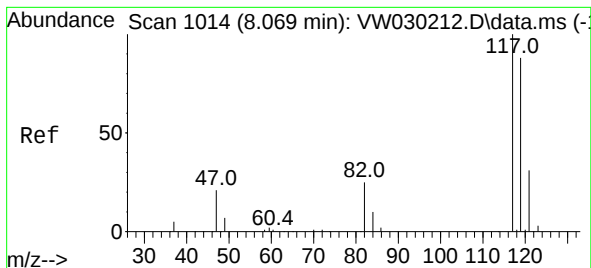
Ion Ratio Lower Upper

97 100

99 65.6 51.3 76.9

61 27.6 36.4 54.6#





#31

Carbon tetrachloride

Concen: 15.773 ug/L

RT: 8.069 min Scan# 1014

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

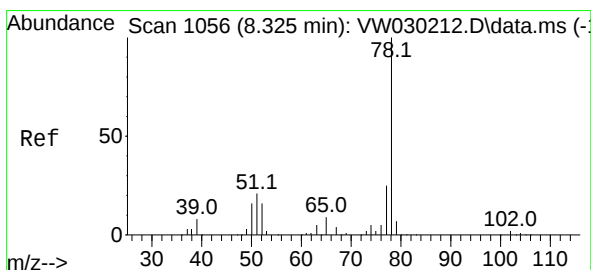
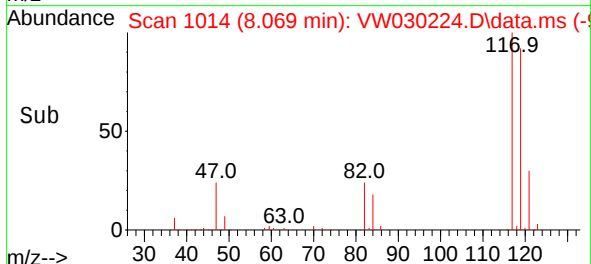
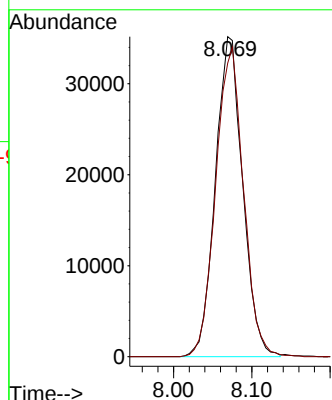
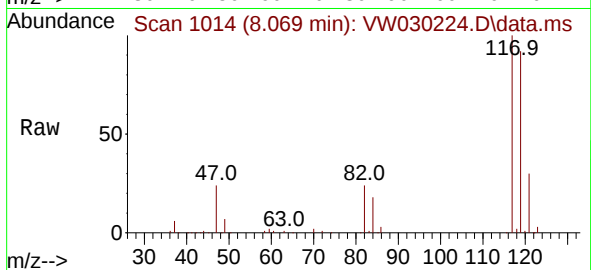
ClientSampleId :

Tgt Ion:117 Resp: 85159

Ion Ratio Lower Upper

117 100

119 98.7 76.2 114.4



#33

Benzene

Concen: 65.590 ug/L

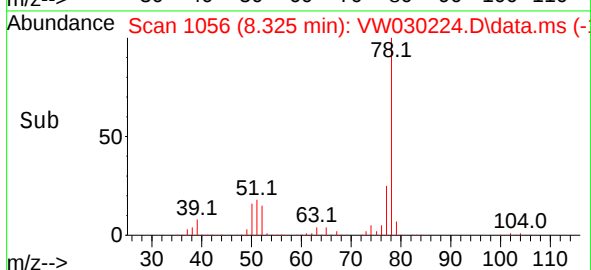
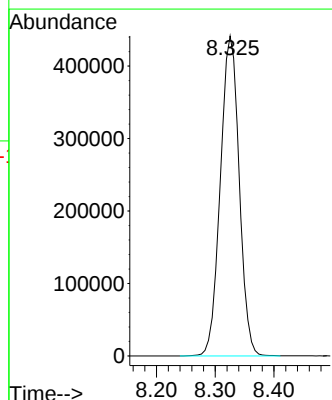
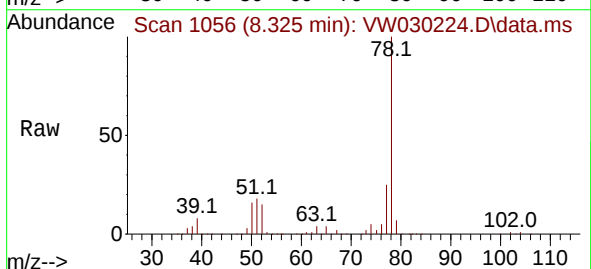
RT: 8.325 min Scan# 1056

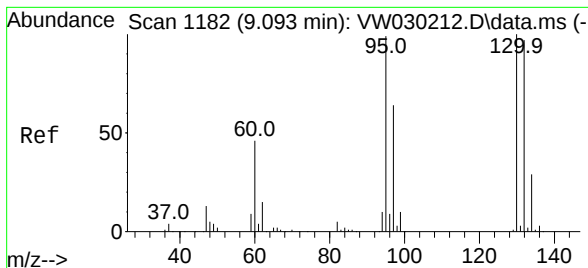
Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Tgt Ion: 78 Resp: 985071





#34

Trichloroethene

Concen: 96.034 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

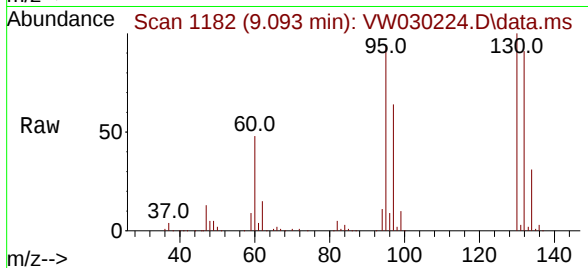
Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 389345

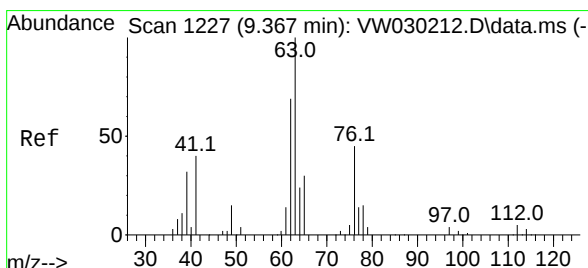
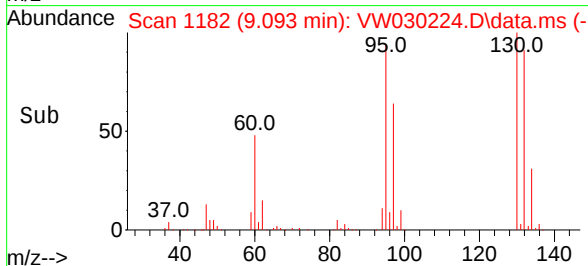
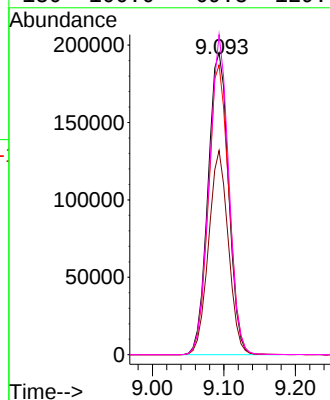
Ion Ratio Lower Upper

95 100

97 67.6 45.2 84.0

132 96.0 64.8 120.3

130 106.0 69.8 129.6



#37

1,2-Dichloropropane

Concen: 34.450 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW030224.D

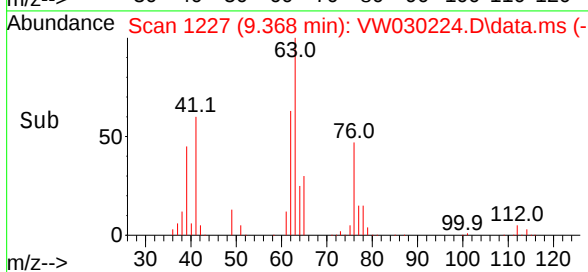
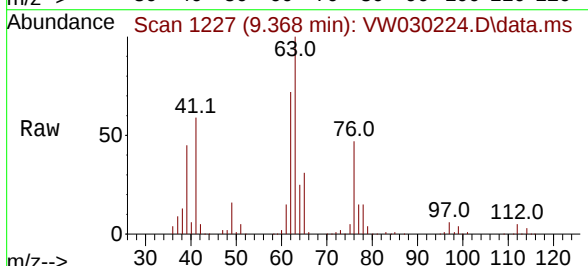
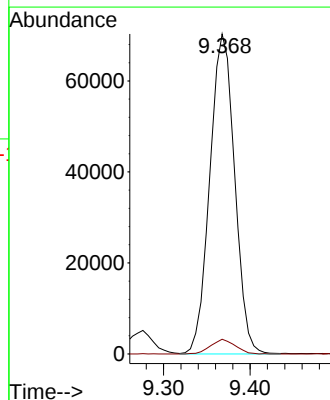
Acq: 24 Sep 2024 15:15

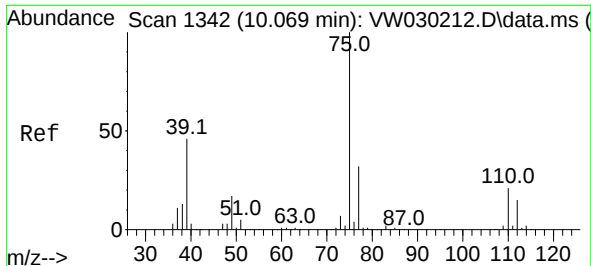
Tgt Ion: 63 Resp: 140234

Ion Ratio Lower Upper

63 100

112 4.5 3.5 5.3





#39

cis-1,3-Dichloropropene

Concen: 62.930 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

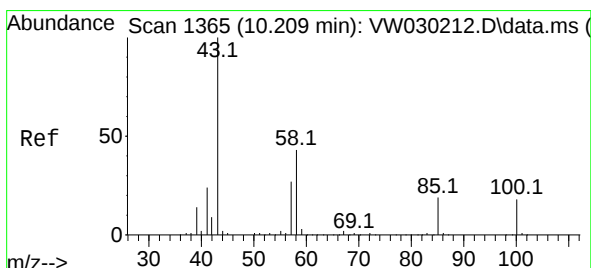
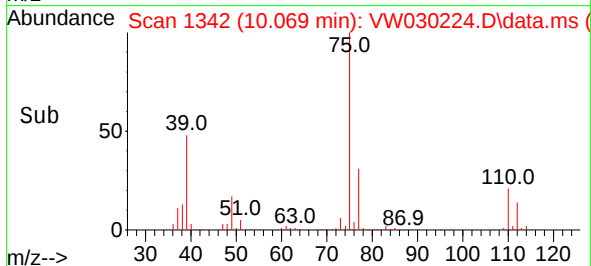
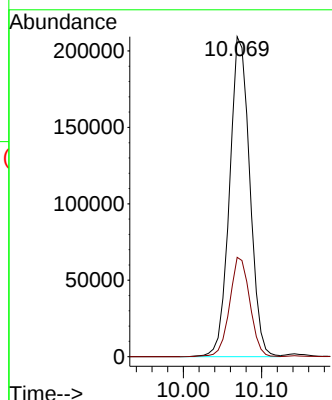
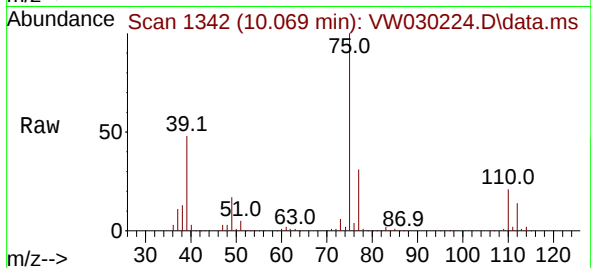
ClientSampleId :

Tgt Ion: 75 Resp: 374750

Ion Ratio Lower Upper

75 100

77 31.0 20.7 38.5



#40

4-Methyl-2-pentanone

Concen: 145.069 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

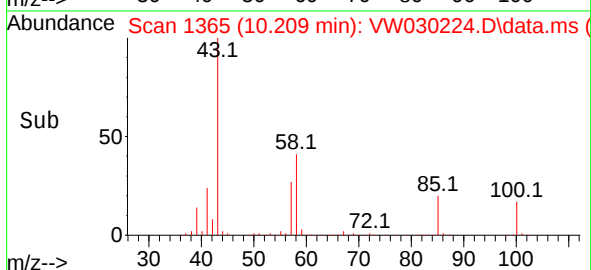
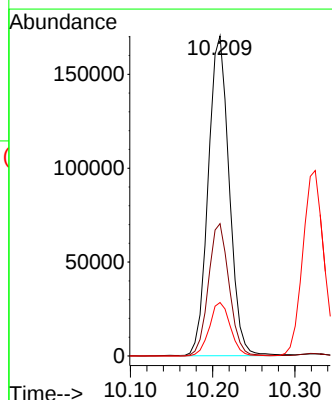
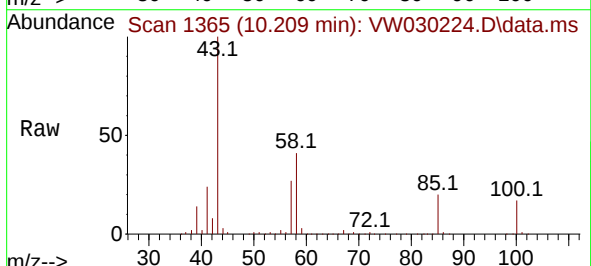
Tgt Ion: 43 Resp: 301741

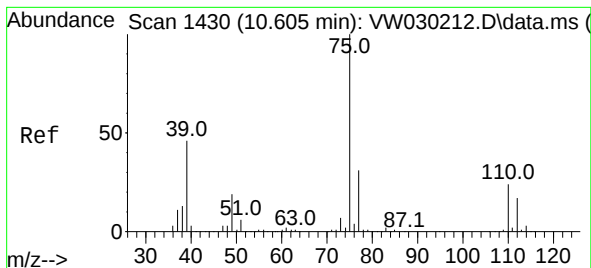
Ion Ratio Lower Upper

43 100

58 41.1 32.7 49.1

100 16.8 12.7 19.1





#44

trans-1,3-Dichloropropene

Concen: 70.757 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

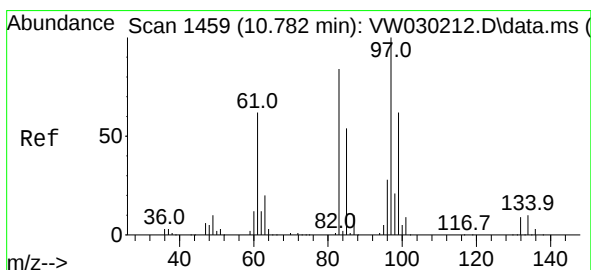
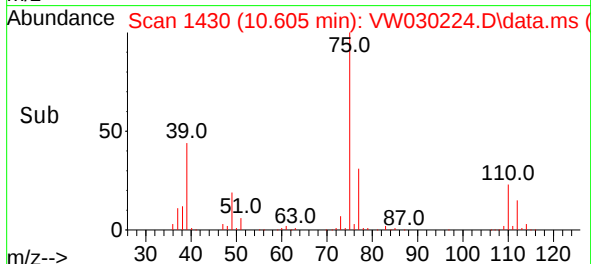
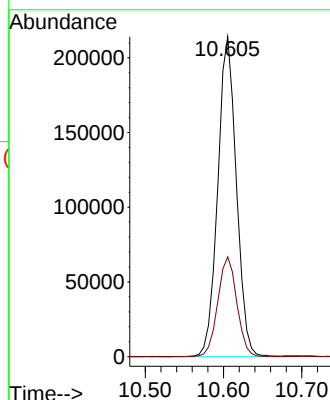
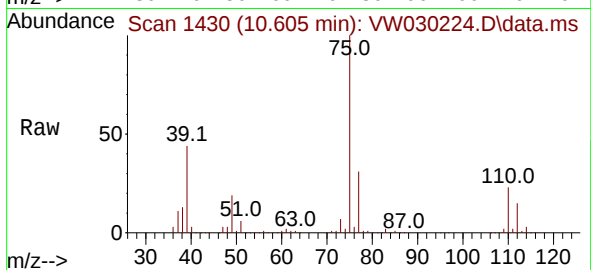
ClientSampleId :

Tgt Ion: 75 Resp: 354461

Ion Ratio Lower Upper

75 100

77 31.2 21.2 39.4



#45

1,1,2-Trichloroethane

Concen: 46.964 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Tgt Ion: 97 Resp: 139109

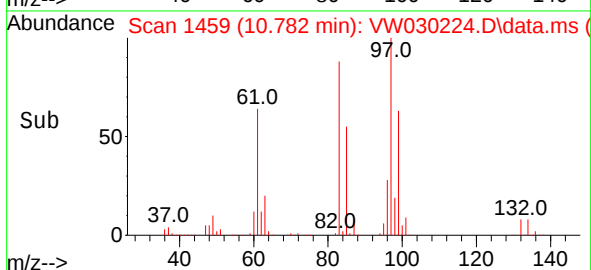
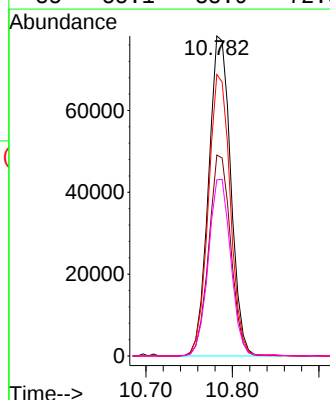
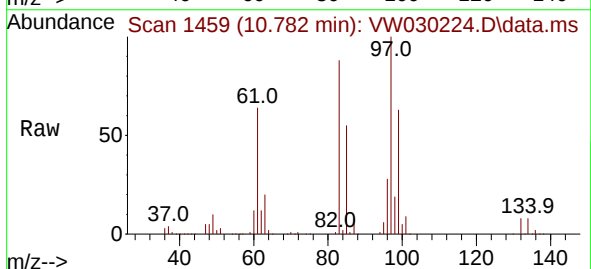
Ion Ratio Lower Upper

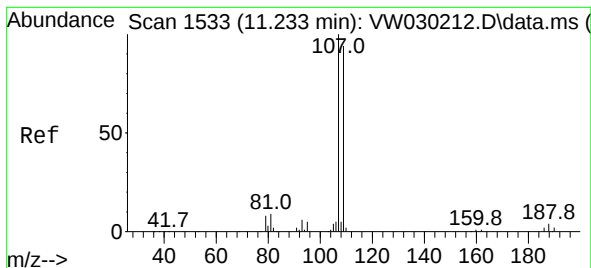
97 100

99 62.8 45.6 84.8

83 88.0 64.0 119.0

85 55.1 38.9 72.3





#50

1,2-Dibromoethane

Concen: 45.127 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW030224.D

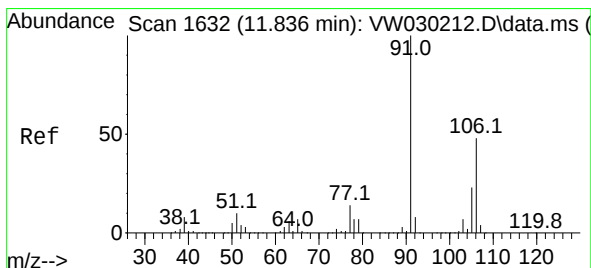
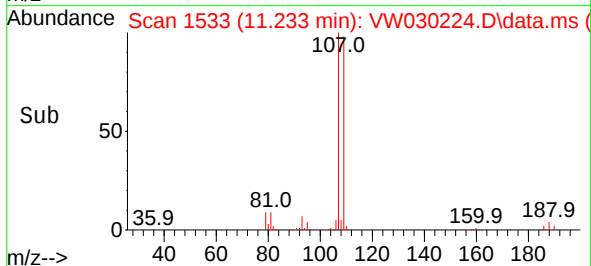
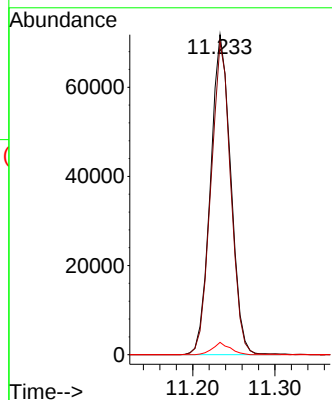
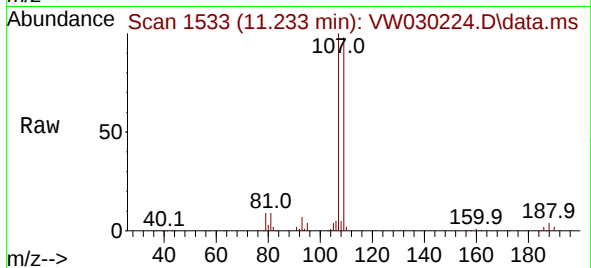
Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	107	Resp:	123252
Ion	Ratio	Lower	Upper
107	100		
109	97.7	68.7	127.7
188	3.9	2.6	4.0



#53

m,p-Xylene

Concen: 51.082 ug/L

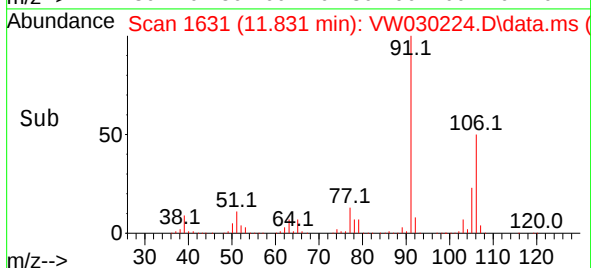
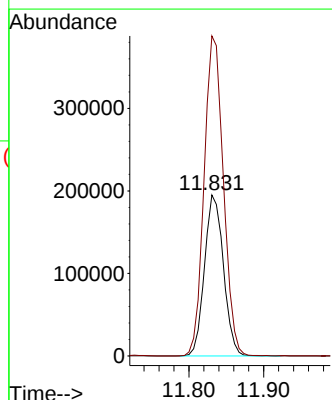
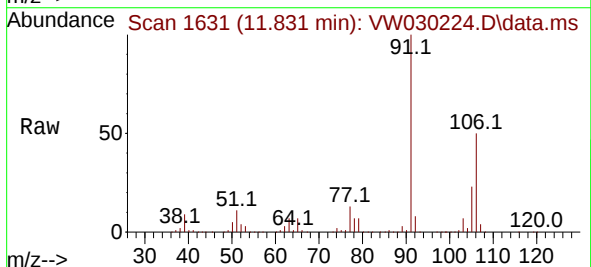
RT: 11.831 min Scan# 1631

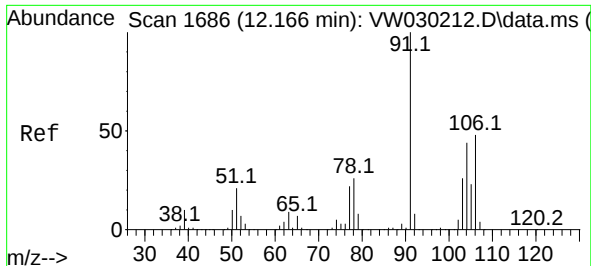
Delta R.T. -0.006 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Tgt Ion:	106	Resp:	343818
Ion	Ratio	Lower	Upper
106	100		
91	198.8	152.9	283.9

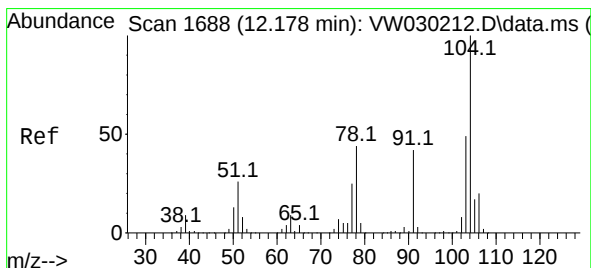
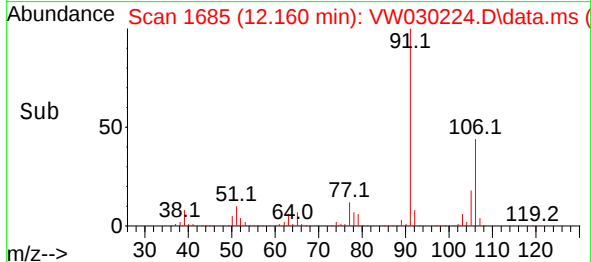
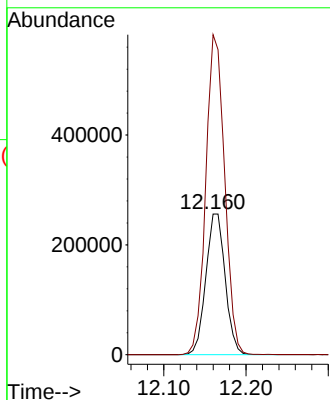
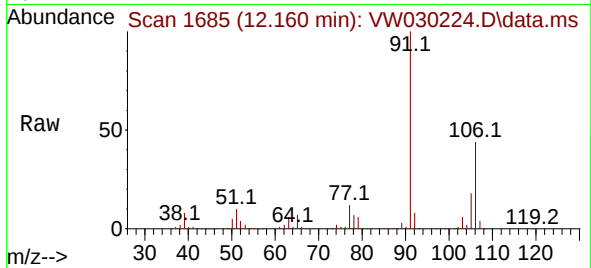




#54
o-Xylene
Concen: 66.054 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VW030224.D
Acq: 24 Sep 2024 15:15

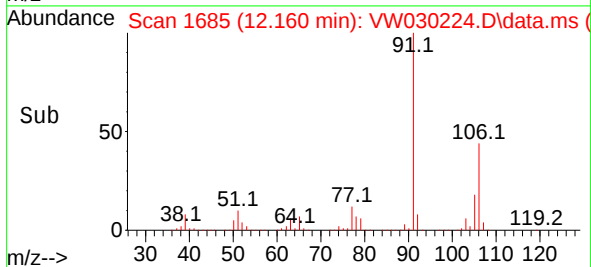
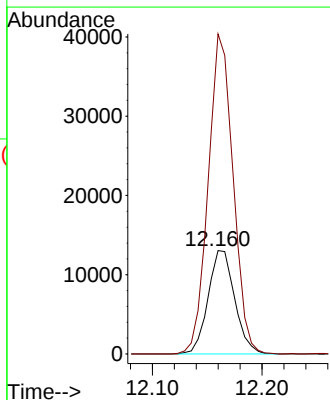
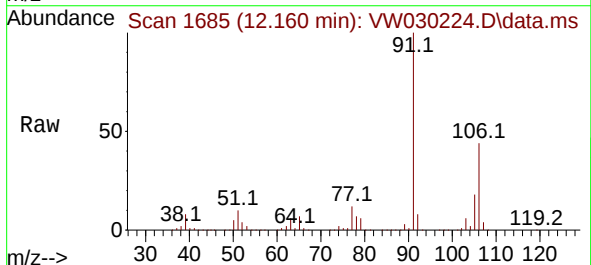
Instrument :
MSVOA_W
ClientSampleId :

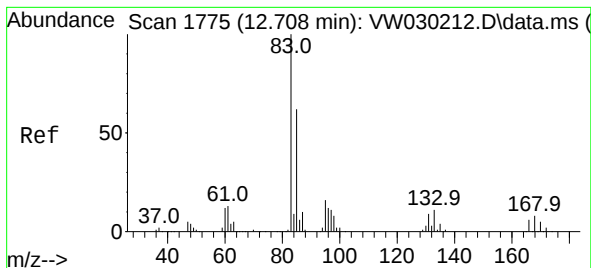
Tgt Ion:106 Resp: 418357
Ion Ratio Lower Upper
106 100
91 227.4 158.1 293.7



#55
Styrene
Concen: 2.005 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.018 min
Lab File: VW030224.D
Acq: 24 Sep 2024 15:15

Tgt Ion:104 Resp: 22023
Ion Ratio Lower Upper
104 100
78 309.6 31.4 58.2#

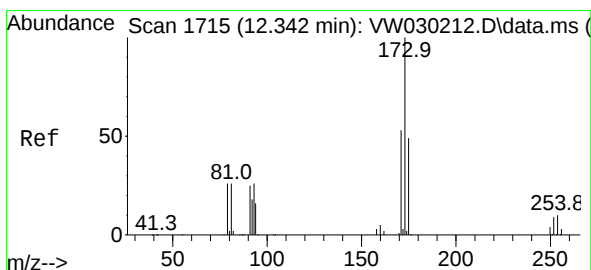
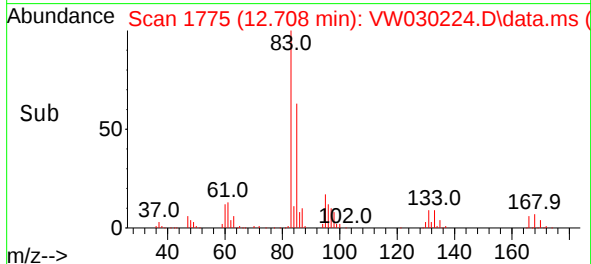
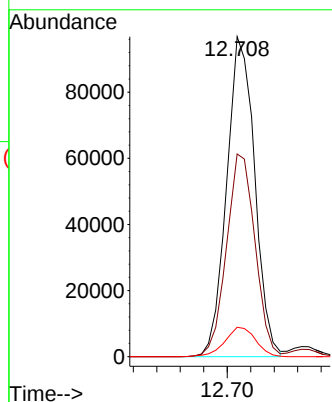
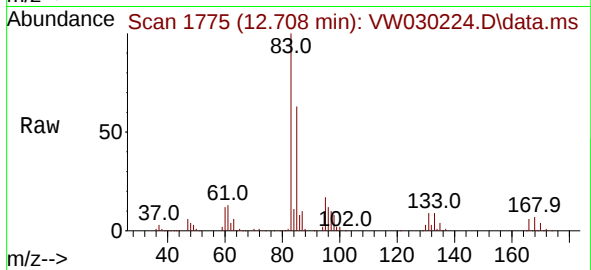




#57
1,1,2,2-Tetrachloroethane
Concen: 45.388 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VW030224.D
Acq: 24 Sep 2024 15:15

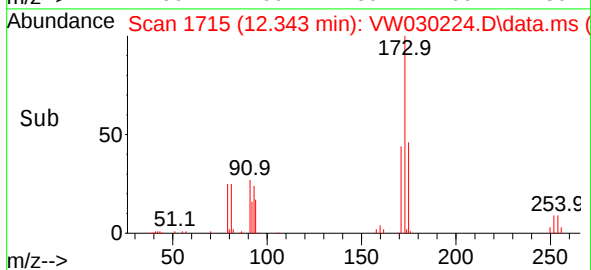
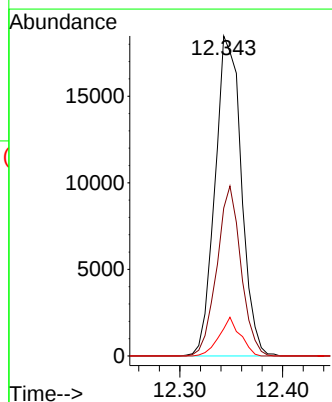
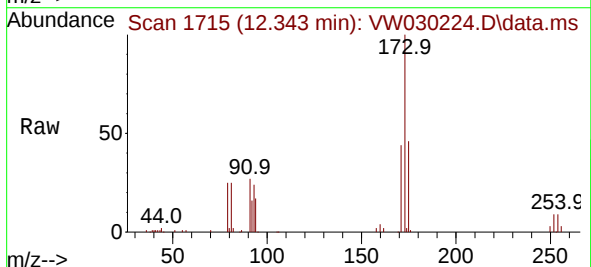
Instrument :
MSVOA_W
ClientSampleId :

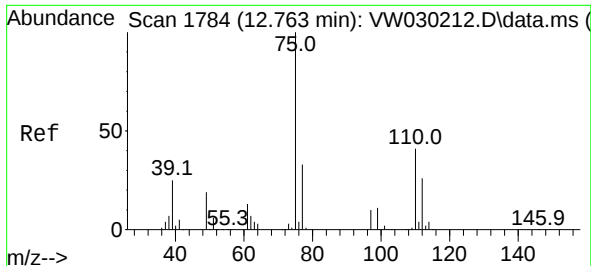
Tgt Ion: 83 Resp: 160471
Ion Ratio Lower Upper
83 100
85 63.3 44.5 82.7
131 9.2 7.4 11.2



#59
Bromoform
Concen: 17.003 ug/L
RT: 12.343 min Scan# 1715
Delta R.T. 0.000 min
Lab File: VW030224.D
Acq: 24 Sep 2024 15:15

Tgt Ion:173 Resp: 32776
Ion Ratio Lower Upper
173 100
175 48.7 38.6 57.8
254 9.7 7.7 11.5





#61

1,2,3-Trichloropropane

Concen: 71.658 ug/L

RT: 12.763 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

ClientSampleId :

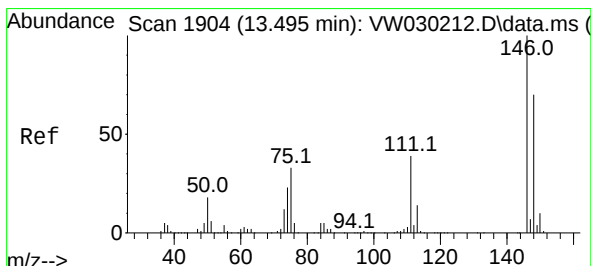
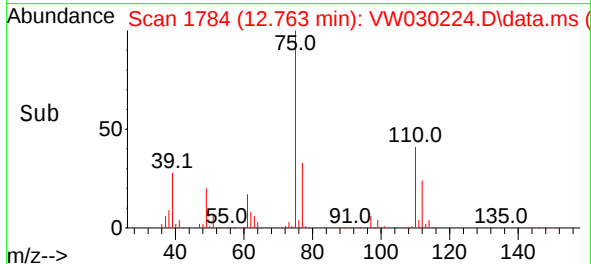
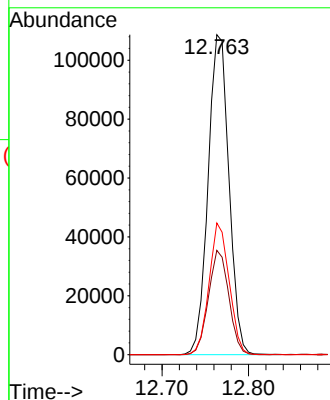
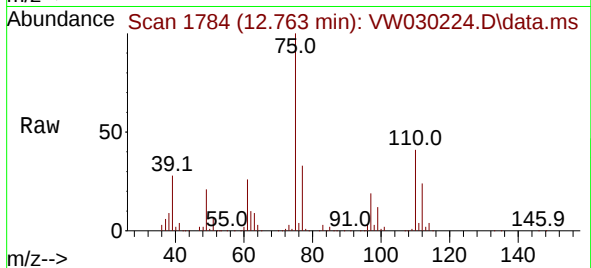
Tgt Ion: 75 Resp: 181568

Ion Ratio Lower Upper

75 100

77 32.0 26.2 39.2

110 39.7 29.7 44.5



#64

1,3-Dichlorobenzene

Concen: 37.243 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

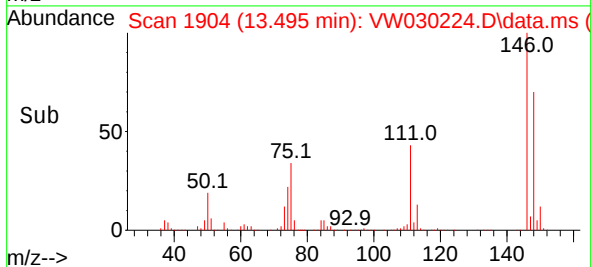
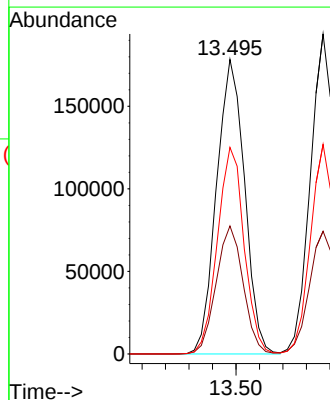
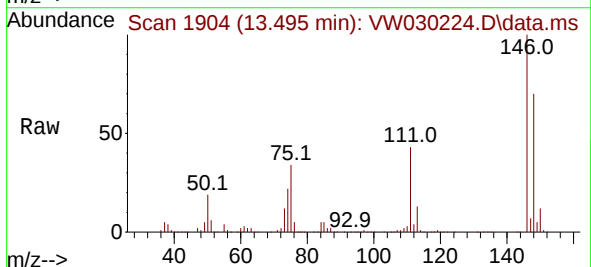
Tgt Ion:146 Resp: 295991

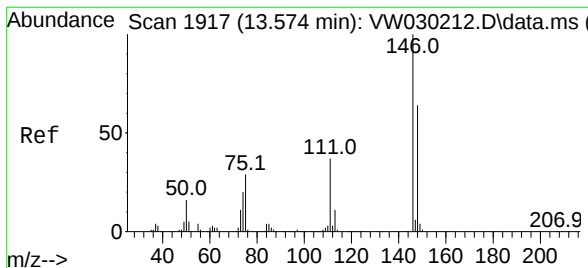
Ion Ratio Lower Upper

146 100

111 43.5 31.9 59.3

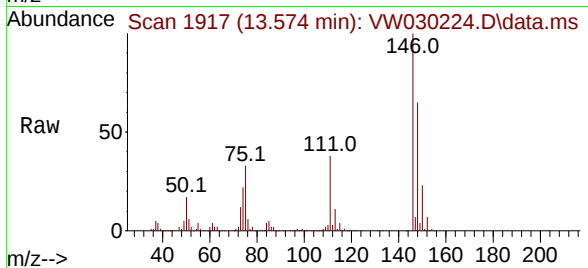
148 70.1 47.7 88.5



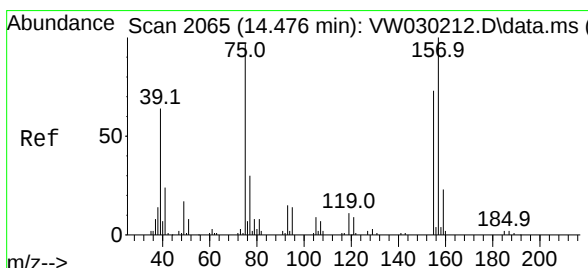
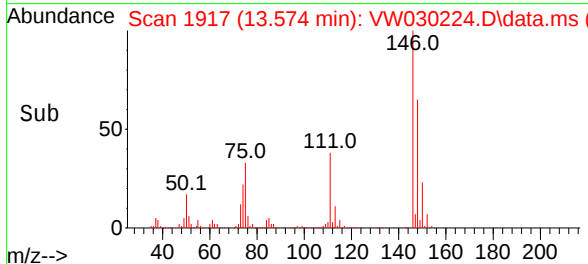
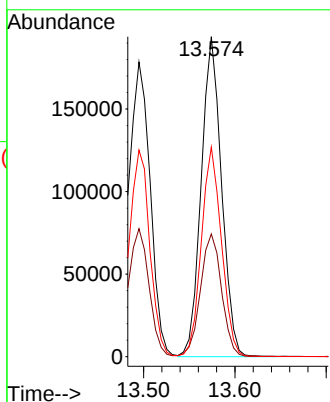


#65
1,4-Dichlorobenzene
Concen: 36.427 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW030224.D
Acq: 24 Sep 2024 15:15

Instrument :
MSVOA_W
ClientSampleId :

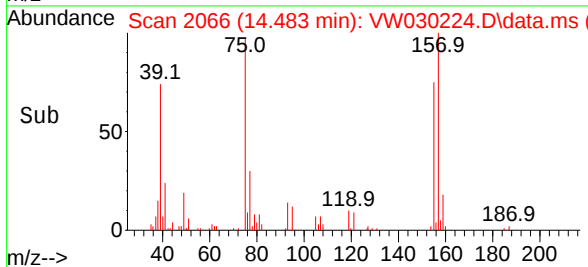
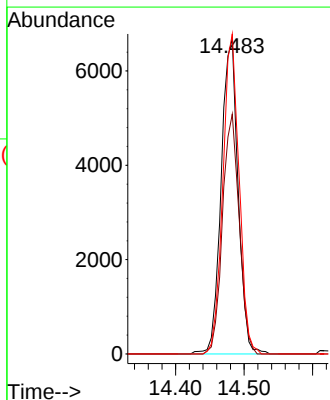
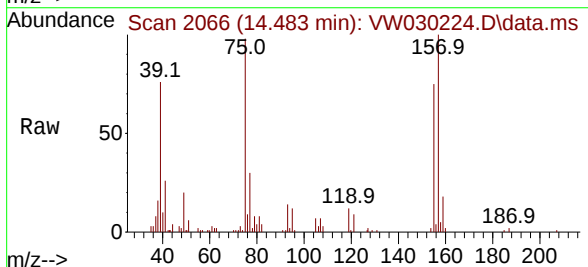


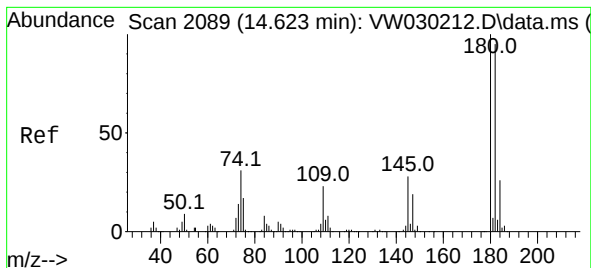
Tgt Ion:146 Resp: 299097
Ion Ratio Lower Upper
146 100
111 38.3 29.5 54.7
148 65.5 44.4 82.5



#68
1,2-Dibromo-3-chloropropane
Concen: 20.588 ug/L
RT: 14.483 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW030224.D
Acq: 24 Sep 2024 15:15

Tgt Ion: 75 Resp: 11377
Ion Ratio Lower Upper
75 100
155 76.1 60.5 90.7
157 101.6 66.9 100.3#





#69

1,3,5-Trichlorobenzene

Concen: 15.201 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. 0.500 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180 Resp: 84329

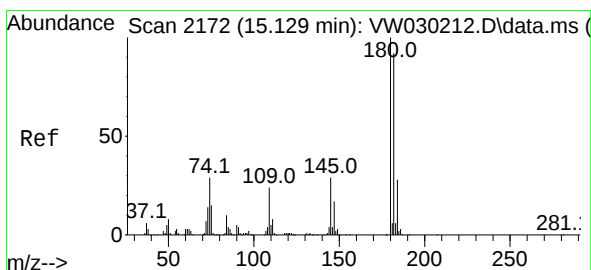
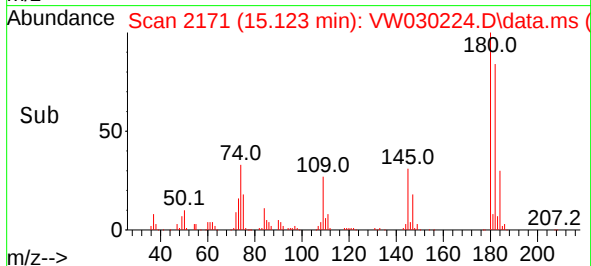
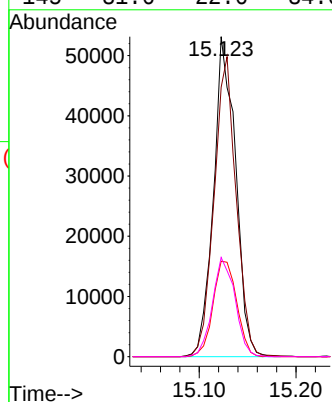
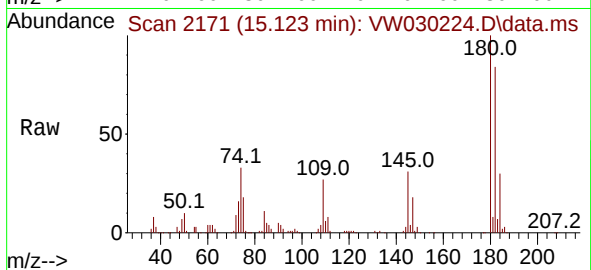
Ion Ratio Lower Upper

180 100

182 93.3 75.5 113.3

184 32.0 23.4 35.0

145 31.6 22.6 34.0



#70

1,2,4-trichlorobenzene

Concen: 18.766 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. -0.006 min

Lab File: VW030224.D

Acq: 24 Sep 2024 15:15

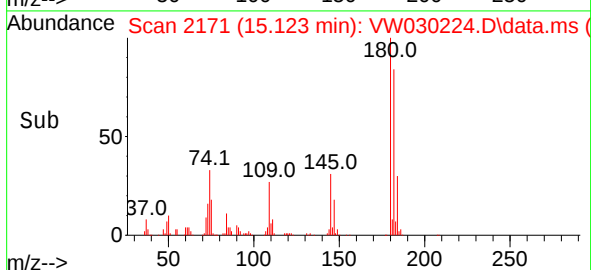
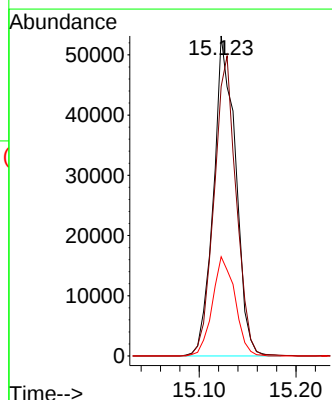
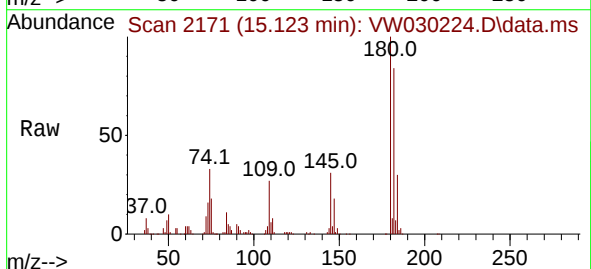
Tgt Ion:180 Resp: 84329

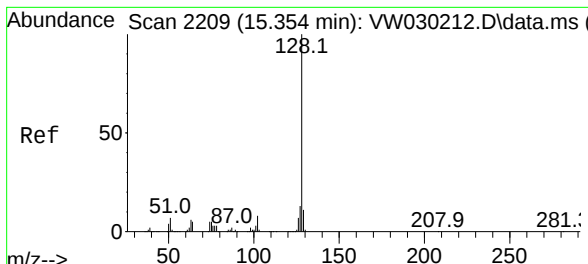
Ion Ratio Lower Upper

180 100

182 93.3 73.4 110.2

145 31.6 24.0 36.0





#71
 Naphthalene
 Concen: 73.541 ug/L
 RT: 15.360 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VW030224.D
 Acq: 24 Sep 2024 15:15

Instrument :
 MSVOA_W
 ClientSampleId :

Tgt Ion:128 Resp: 600112

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.1	15.1
129	10.8	8.4	12.6

