

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100724\
 Data File : VW030418.D
 Acq On : 07 Oct 2024 15:27
 Operator : SY/MD
 Sample : P4284-08 2X DL
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 08 01:27:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM092724SMA.M
 Quant Title : SFAM01.0
 QLast Update : Tue Oct 08 01:21:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	191491	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	177177	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	89842	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	45538	30.432	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 121.720%	
7) Chloroethane-d5	2.905	69	35834	32.913	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 131.640%	
11) 1,1-Dichloroethene-d2	4.021	65	27935	25.575	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	= 102.280%	
21) 2-Butanone-d5	7.075	46	32298	53.673	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 107.340%	
24) Chloroform-d	7.648	84	145373	28.258	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	= 113.040%	
26) 1,2-Dichloroethane-d4	8.307	65	72214	26.894	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	= 107.560%	
32) Benzene-d6	8.276	84	270494	27.239	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 108.960%	
36) 1,2-Dichloropropane-d6	9.276	67	84001	28.125	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	= 112.520%	
41) Toluene-d8	10.325	98	248765	27.320	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 109.280%	
43) trans-1,3-Dichloroprop...	10.575	79	32379	26.064	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 104.240%	
47) 2-Hexanone-d5	10.922	63	27738	56.242	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 112.480%	
56) 1,1,2,2-Tetrachloroeth...	12.690	84	65702	29.439	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 117.760%	
66) 1,2-Dichlorobenzene-d4	13.849	152	84085	28.189	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 112.760%	
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	57110	25.671	ug/L	93
13) Acetone	4.119	43	21568	33.788	ug/L	98
16) Methylene chloride	4.923	84	125280	42.507	ug/L	98
17) trans-1,2-Dichloroethene	5.429	96	45318	17.548	ug/L	95
18) Methyl tert-butyl Ether	5.429	73	90826	22.111	ug/L	98
19) 1,1-Dichloroethane	6.222	63	245561	49.929	ug/L	96
22) 2-Butanone	7.173	43	87851	107.657	ug/L	96
25) Chloroform	7.679	83	256040	50.198	ug/L	100
30) 1,1,1-Trichloroethane	7.874	97	1728	0.421	ug/L	95
31) Carbon tetrachloride	8.069	117	35883	9.782	ug/L	99
33) Benzene	8.325	78	408969	37.897	ug/L	100
34) Trichloroethene	9.093	95	160984	56.082	ug/L	93
37) 1,2-Dichloropropane	9.368	63	60191	21.140	ug/L	100
39) cis-1,3-Dichloropropene	10.075	75	151575	34.718	ug/L	98
40) 4-Methyl-2-pentanone	10.209	43	112927	77.109	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	142538	39.401	ug/L	96
45) 1,1,2-Trichloroethane	10.788	97	56278	28.047	ug/L	96
50) 1,2-Dibromoethane	11.233	107	49222	25.925	ug/L	99
53) m,p-Xylene	11.837	106	143245	29.319	ug/L	98

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Quant Title : SFAM01.0
QLast Update : Tue Oct 08 01:21:40 2024
Response via : Initial Calibration

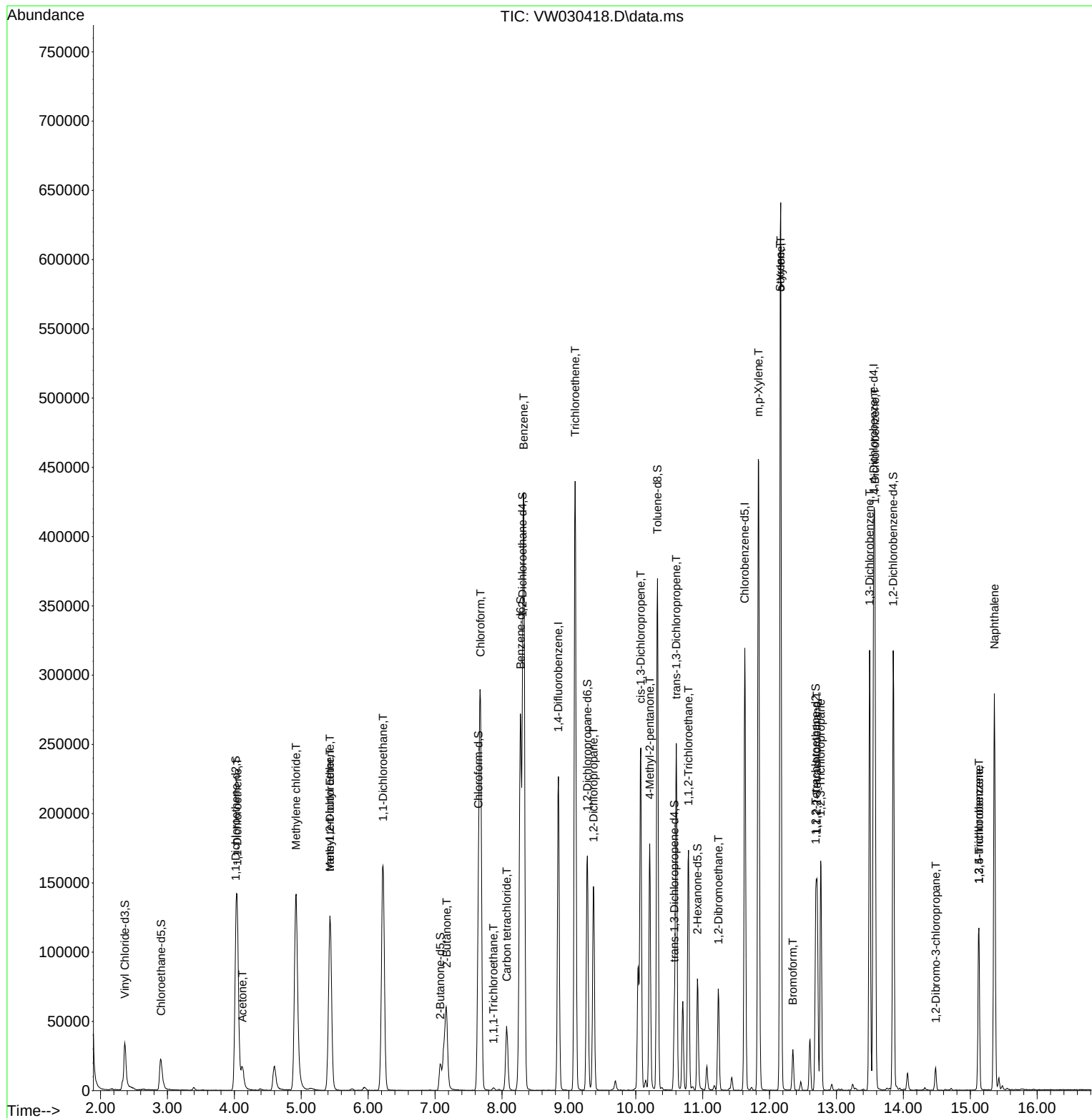
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	12.166	106	169904	36.537	ug/L	99
55) Styrene	12.160	104	9101	1.147	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	64568	27.476	ug/L	99
59) Bromoform	12.349	173	12975	9.969	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	71883	42.088	ug/L	100
64) 1,3-Dichlorobenzene	13.495	146	128154	22.488	ug/L	89
65) 1,4-Dichlorobenzene	13.574	146	130524	22.421	ug/L	93
68) 1,2-Dibromo-3-chloropr...	14.483	75	4486	11.464	ug/L	91
69) 1,3,5-Trichlorobenzene	15.129	180	38514	9.792	ug/L	97
70) 1,2,4-trichlorobenzene	15.129	180	38514	11.827	ug/L	96
71) Naphthalene	15.360	128	240354	40.351	ug/L	99

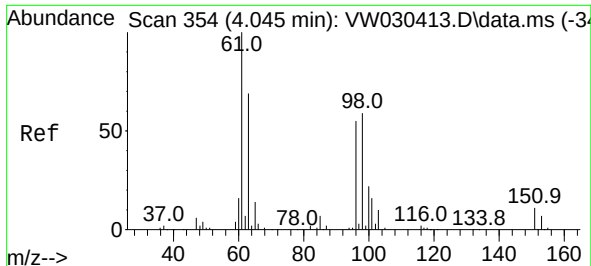
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 25.671 ug/L

RT: 4.045 min Scan# 354

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

ClientSampleId :

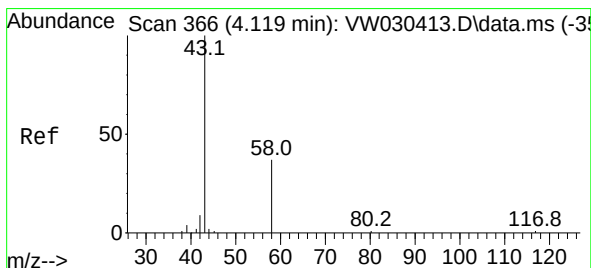
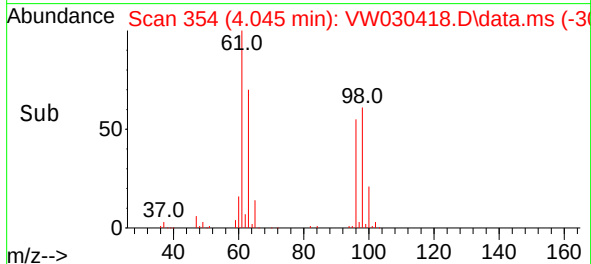
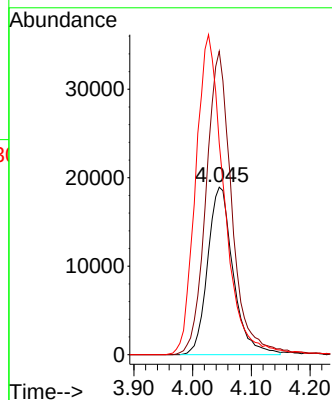
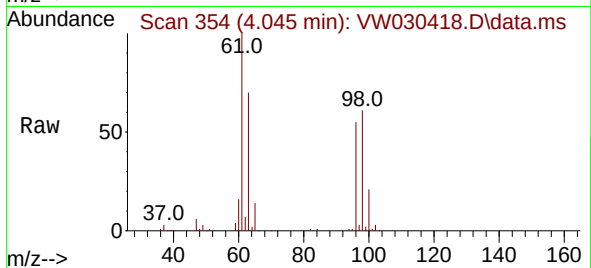
Tgt Ion: 96 Resp: 57110

Ion Ratio Lower Upper

96 100

61 181.0 120.1 223.1

63 126.2 94.8 176.2



#13

Acetone

Concen: 33.788 ug/L

RT: 4.119 min Scan# 366

Delta R.T. 0.000 min

Lab File: VW030418.D

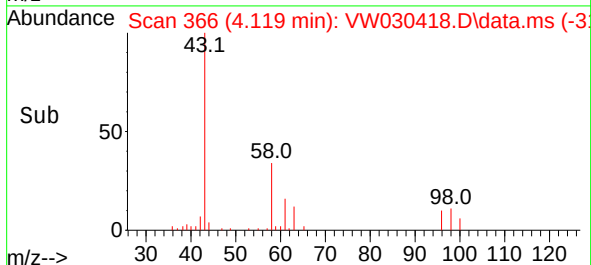
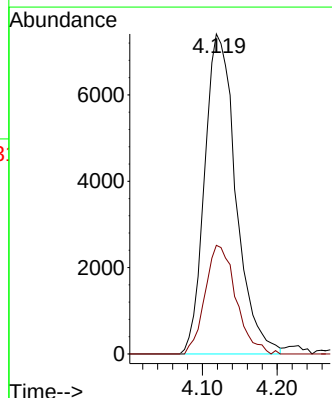
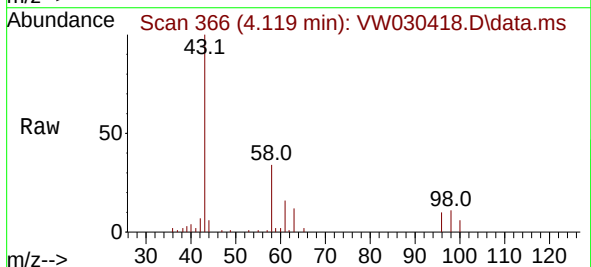
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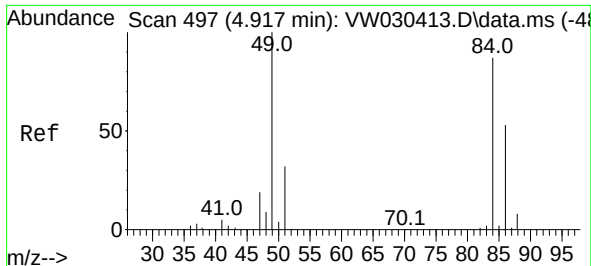
Tgt Ion: 43 Resp: 21568

Ion Ratio Lower Upper

43 100

58 33.3 0.0 64.0

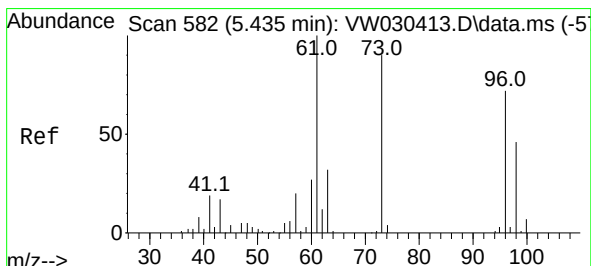
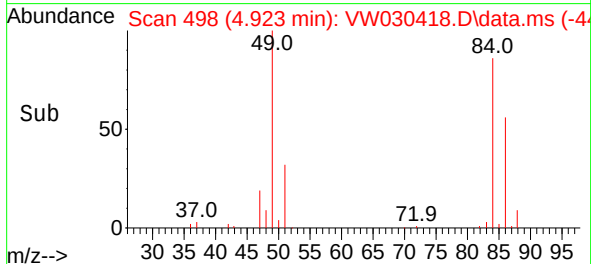
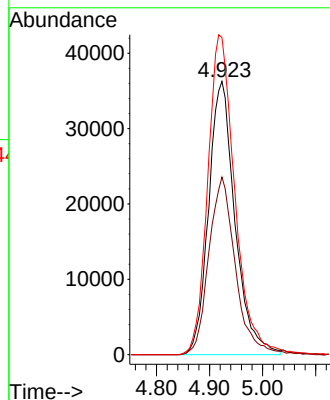
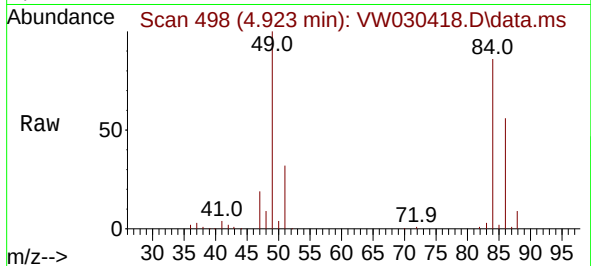




#16
Methylene chloride
Concen: 42.507 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.006 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

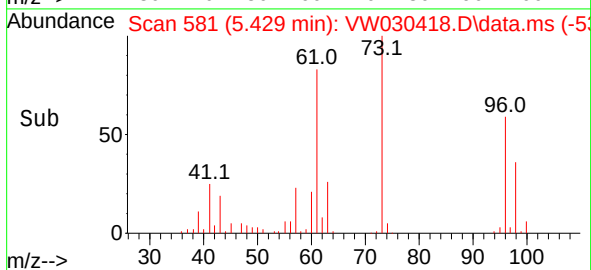
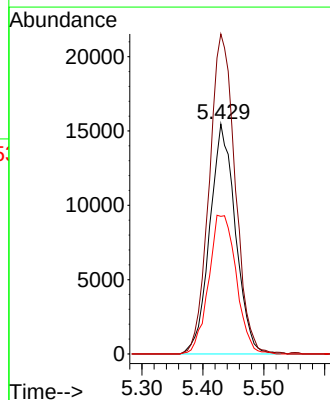
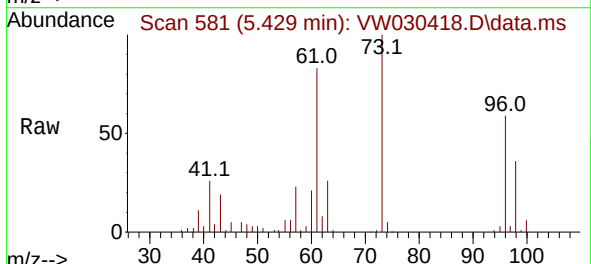
Instrument :
MSVOA_W
ClientSampleId :

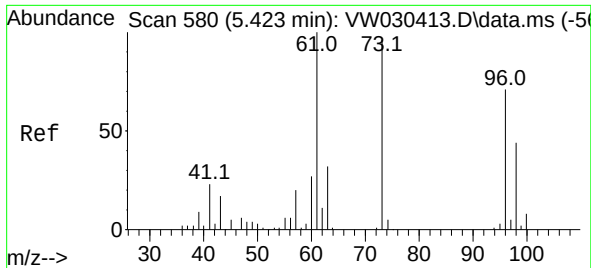
Tgt Ion: 84 Resp: 125280
Ion Ratio Lower Upper
84 100
86 65.0 44.8 83.2
49 116.0 83.6 155.2



#17
trans-1,2-Dichloroethene
Concen: 17.548 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

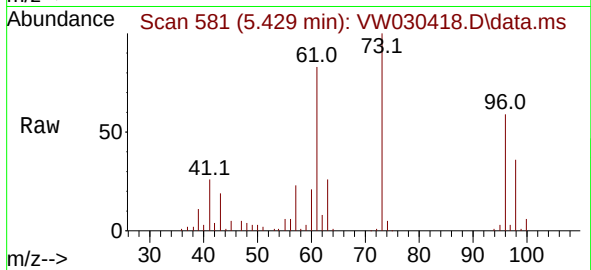
Tgt Ion: 96 Resp: 45318
Ion Ratio Lower Upper
96 100
61 139.2 100.3 186.3
98 59.8 46.3 86.1



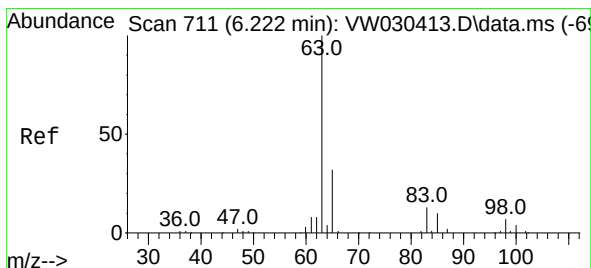
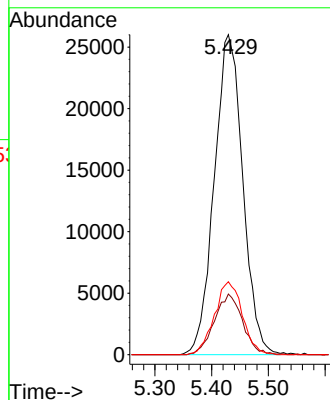
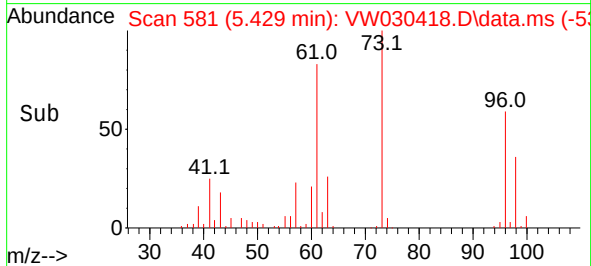


#18
Methyl tert-butyl Ether
Concen: 22.111 ug/L
RT: 5.429 min Scan# 580
Delta R.T. 0.006 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

Instrument :
MSVOA_W
ClientSampleId :

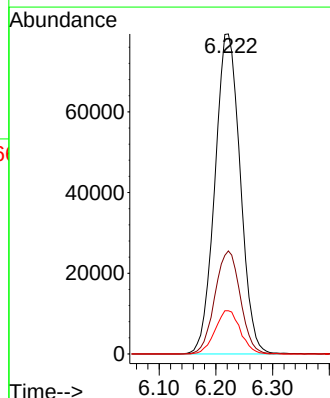
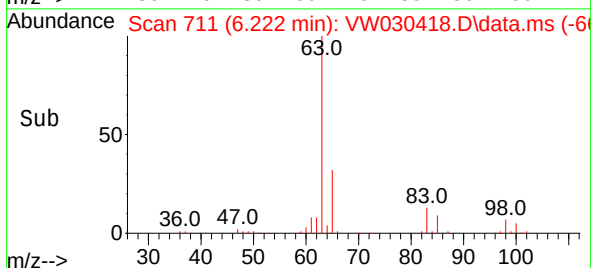
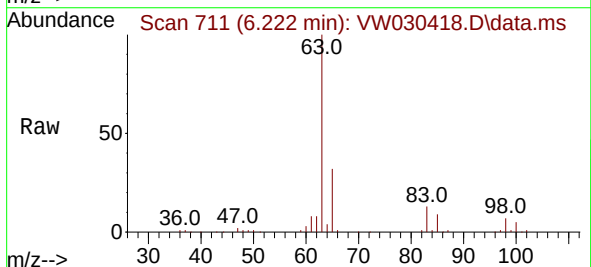


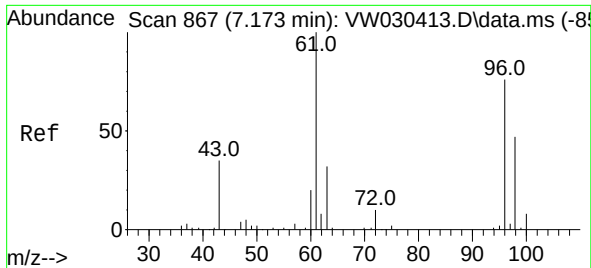
Tgt Ion:	73	Resp:	90826
Ion Ratio	Lower	Upper	
73	100		
43	18.8	15.9	23.9
57	22.3	17.6	26.4



#19
1,1-Dichloroethane
Concen: 49.929 ug/L
RT: 6.222 min Scan# 711
Delta R.T. 0.000 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

Tgt Ion:	63	Resp:	245561
Ion Ratio	Lower	Upper	
63	100		
65	32.2	20.7	38.5
83	13.5	9.9	18.3

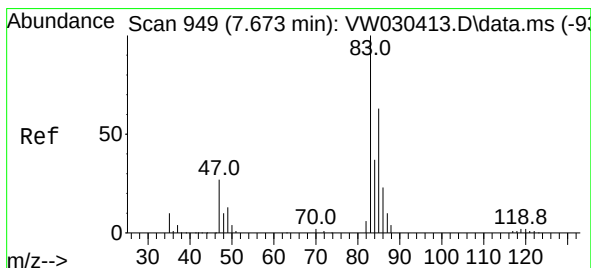
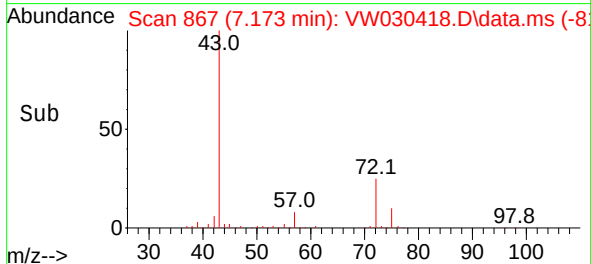
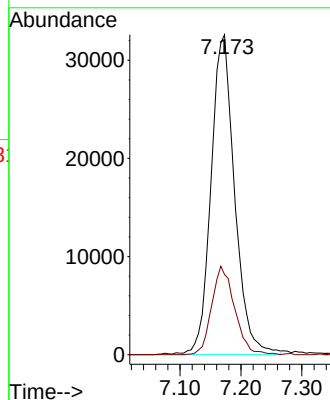
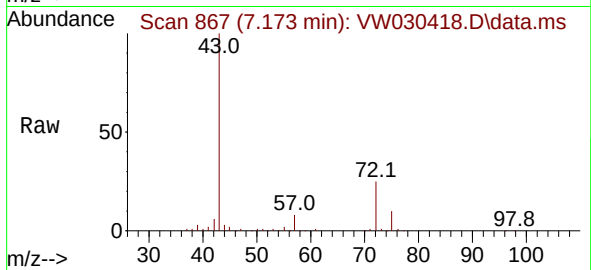




#22
2-Butanone
Concen: 107.657 ug/L
RT: 7.173 min Scan# 867
Delta R.T. 0.000 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

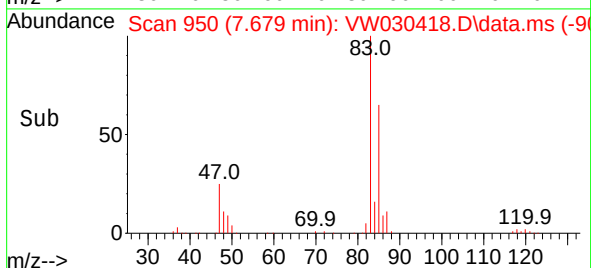
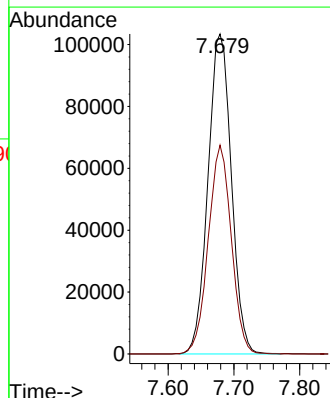
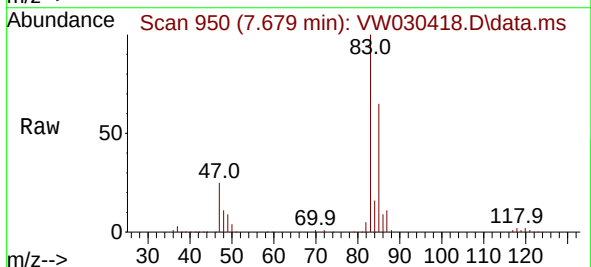
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ClientSampleId :

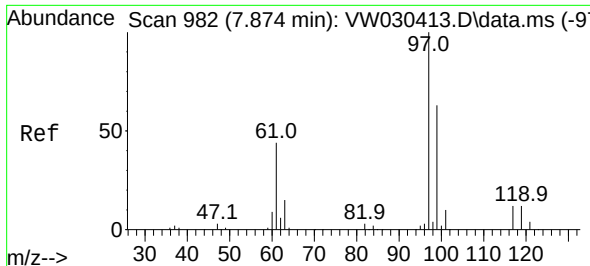
Tgt Ion: 43 Resp: 87851
Ion Ratio Lower Upper
43 100
72 26.3 14.1 42.3



#25
Chloroform
Concen: 50.198 ug/L
RT: 7.679 min Scan# 950
Delta R.T. 0.006 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

Tgt Ion: 83 Resp: 256040
Ion Ratio Lower Upper
83 100
85 65.3 45.8 85.0

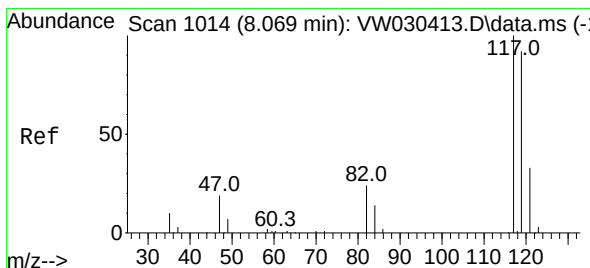
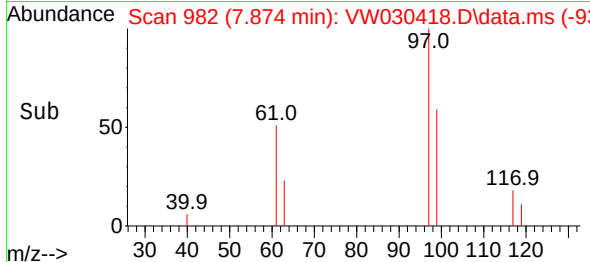
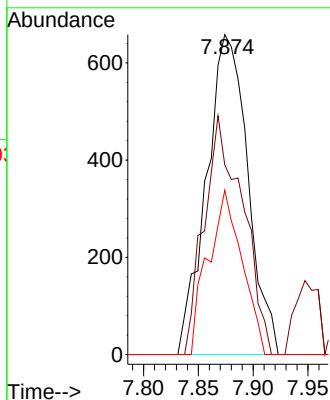
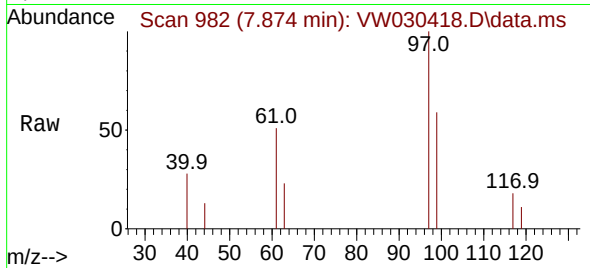




#30
1,1,1-Trichloroethane
Concen: 0.421 ug/L
RT: 7.874 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

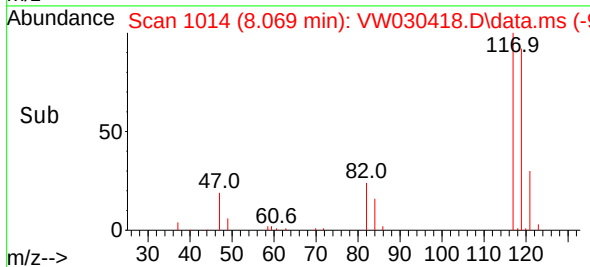
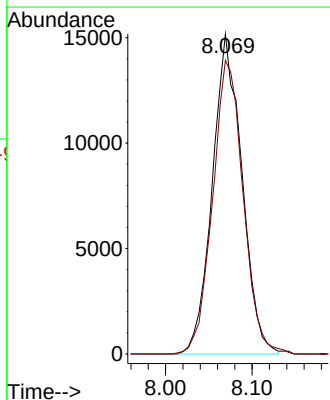
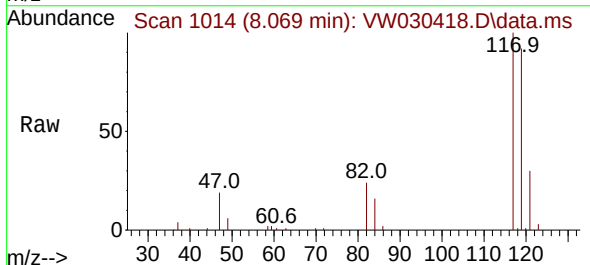
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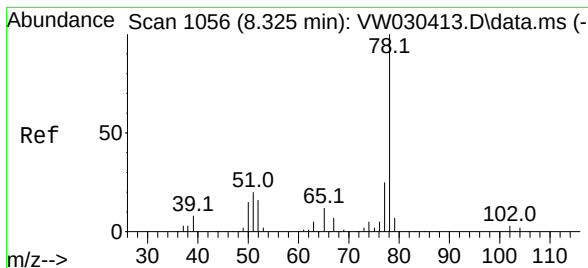
Tgt Ion: 97 Resp: 1728
Ion Ratio Lower Upper
97 100
99 69.5 50.9 76.3
61 42.2 34.1 51.1



#31
Carbon tetrachloride
Concen: 9.782 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. 0.000 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

Tgt Ion: 117 Resp: 35883
Ion Ratio Lower Upper
117 100
119 95.0 75.5 113.3





#33

Benzene

Concen: 37.897 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VW030418.D

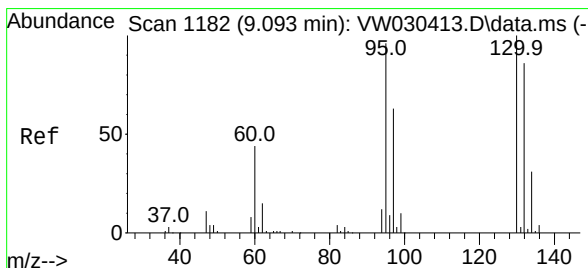
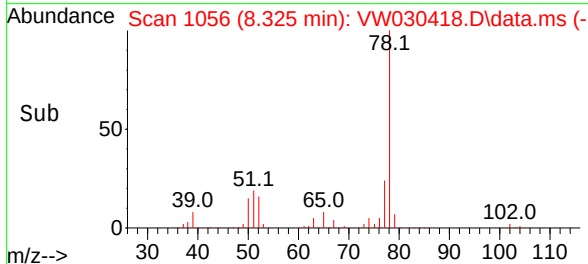
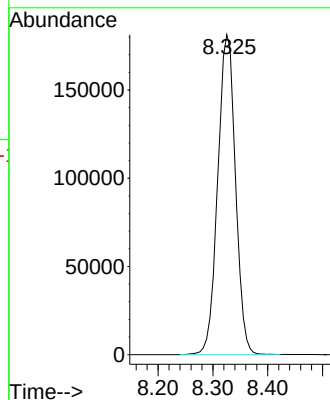
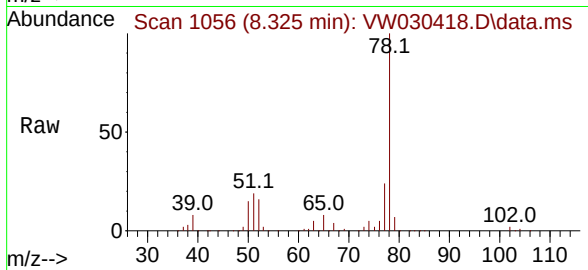
Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 408969



#34

Trichloroethene

Concen: 56.082 ug/L

RT: 9.093 min Scan# 1182

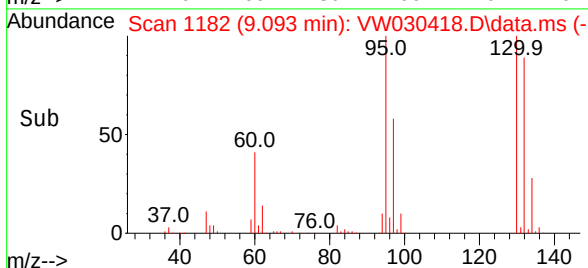
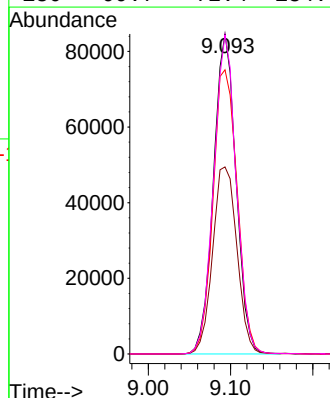
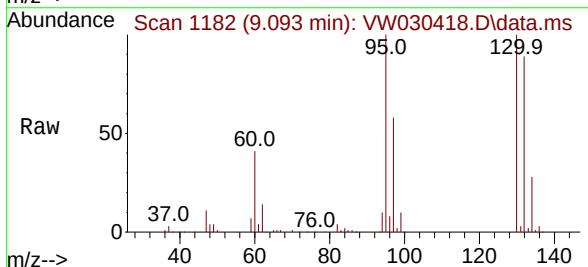
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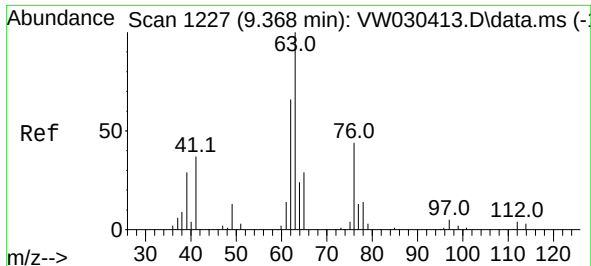
Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Tgt Ion: 95 Resp: 160984

Ion	Ratio	Lower	Upper
95	100		
97	58.5	47.5	88.1
132	88.8	66.7	123.9
130	99.7	72.4	134.5

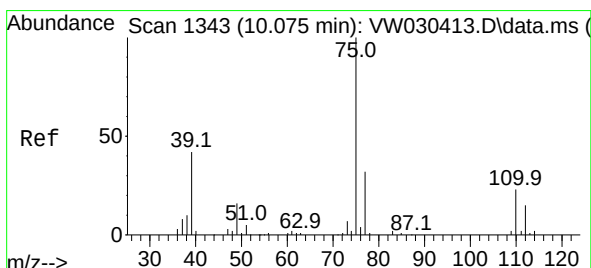
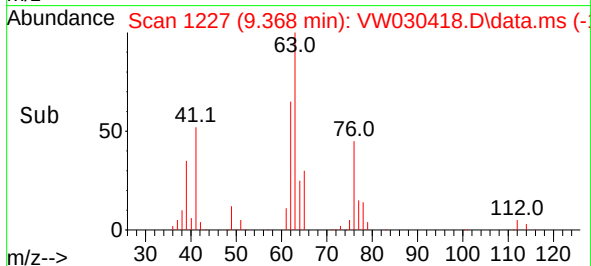
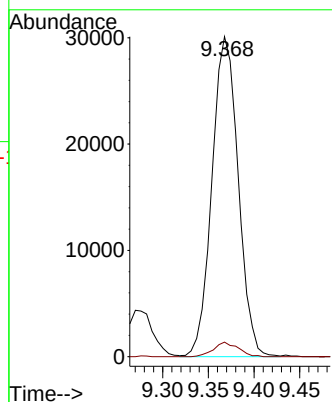
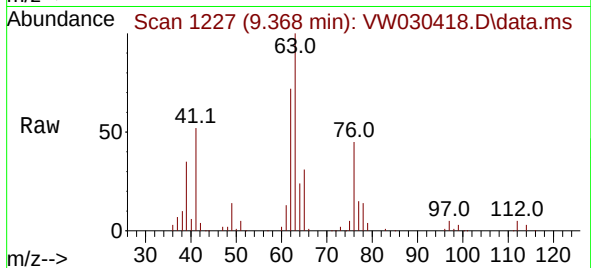




#37
1,2-Dichloropropane
Concen: 21.140 ug/L
RT: 9.368 min Scan# 1227
Delta R.T. 0.000 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

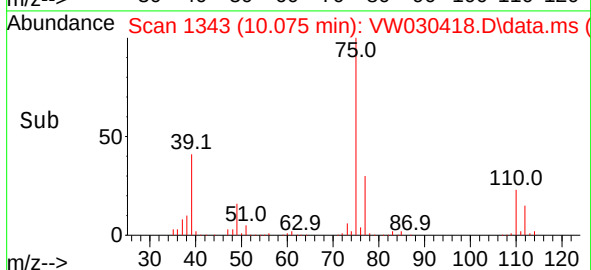
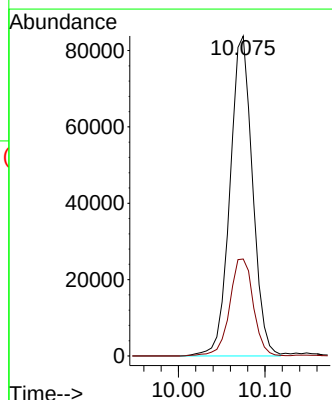
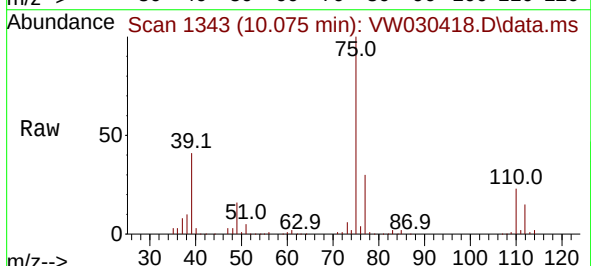
Instrument :
MSVOA_W
ClientSampleId :

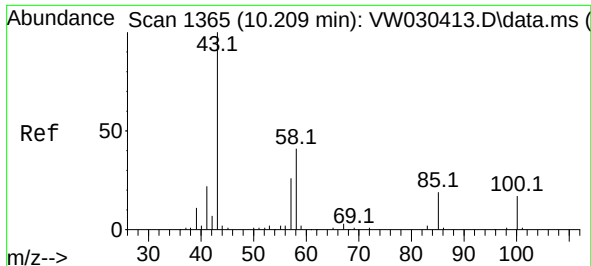
Tgt Ion: 63 Resp: 60191
Ion Ratio Lower Upper
63 100
112 4.3 3.4 5.2



#39
cis-1,3-Dichloropropene
Concen: 34.718 ug/L
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

Tgt Ion: 75 Resp: 151575
Ion Ratio Lower Upper
75 100
77 30.3 22.0 40.8





#40

4-Methyl-2-pentanone

Concen: 77.109 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

ClientSampleId :

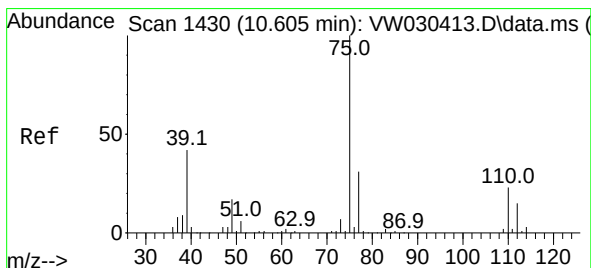
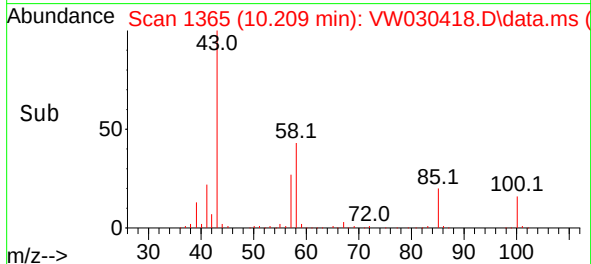
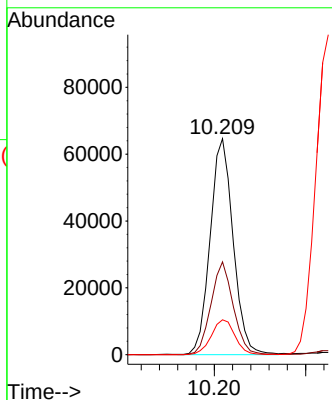
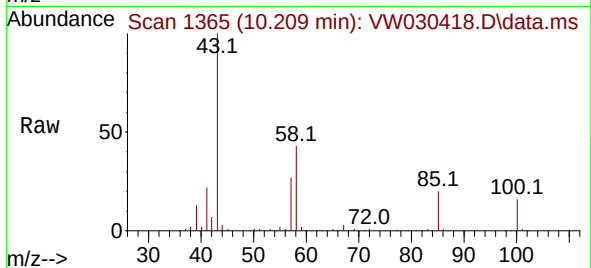
Tgt Ion: 43 Resp: 112927

Ion Ratio Lower Upper

43 100

58 41.6 32.6 48.8

100 16.6 12.5 18.7



#44

trans-1,3-Dichloropropene

Concen: 39.401 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW030418.D

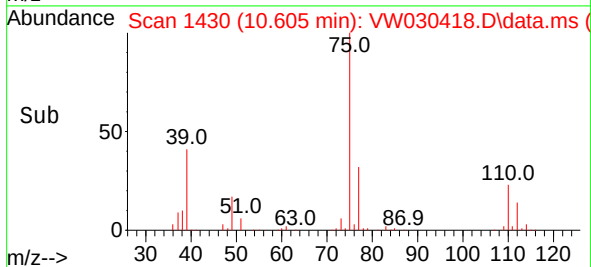
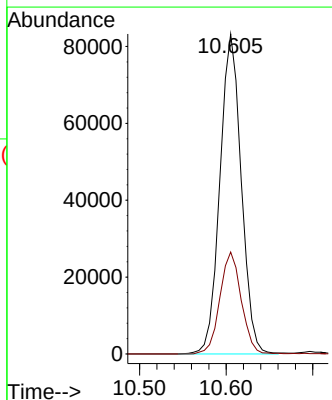
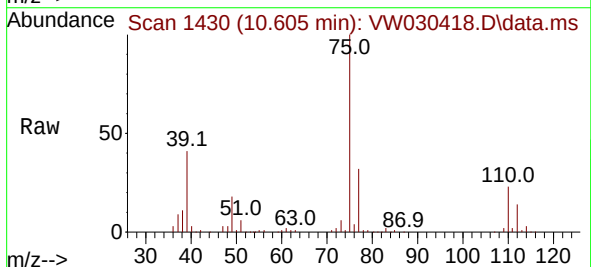
Acq: 07 Oct 2024 15:27

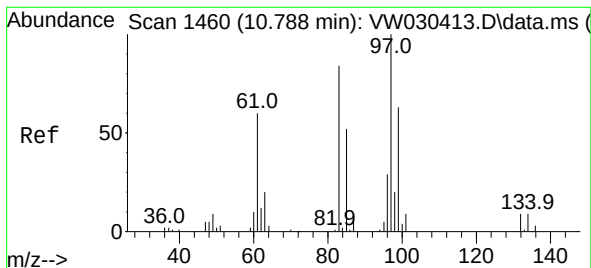
Tgt Ion: 75 Resp: 142538

Ion Ratio Lower Upper

75 100

77 31.8 20.8 38.6





#45

1,1,2-Trichloroethane

Concen: 28.047 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 56278

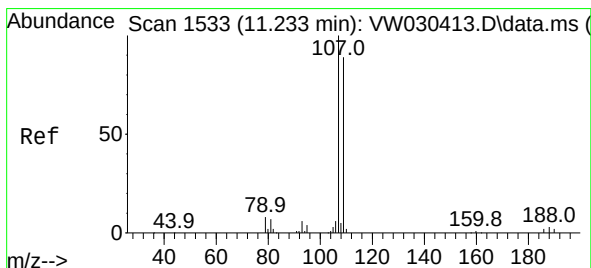
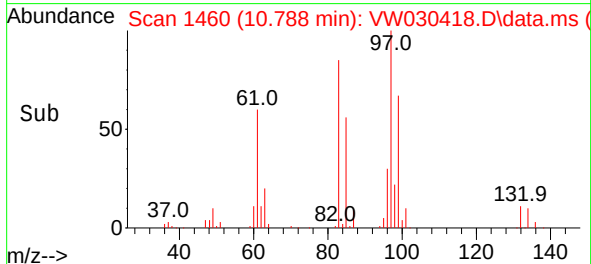
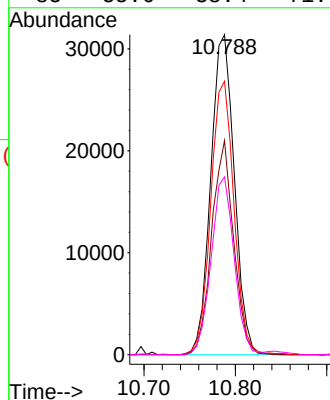
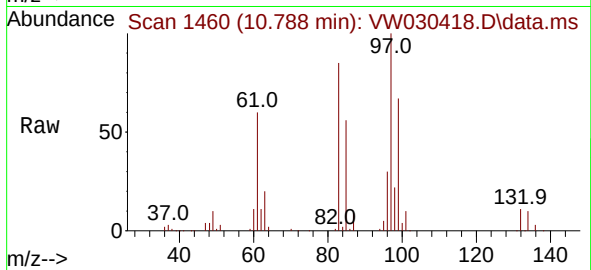
Ion Ratio Lower Upper

97 100

99 66.9 40.8 75.8

83 85.5 59.1 109.7

85 55.6 38.4 71.4



#50

1,2-Dibromoethane

Concen: 25.925 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

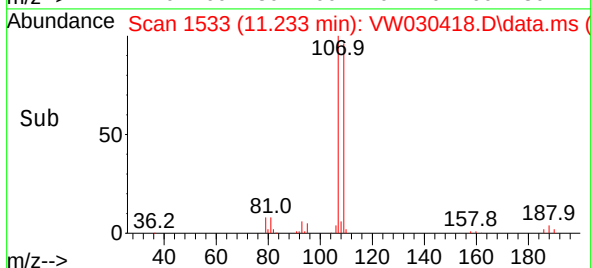
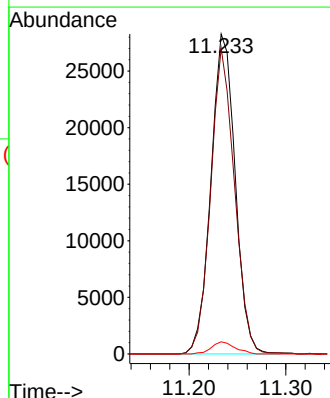
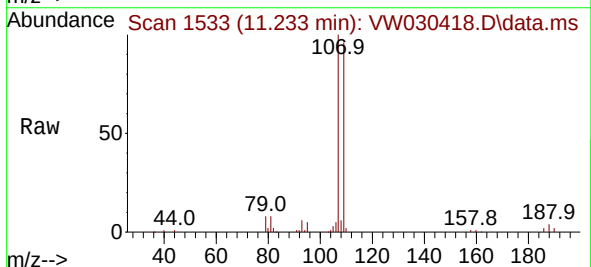
Tgt Ion:107 Resp: 49222

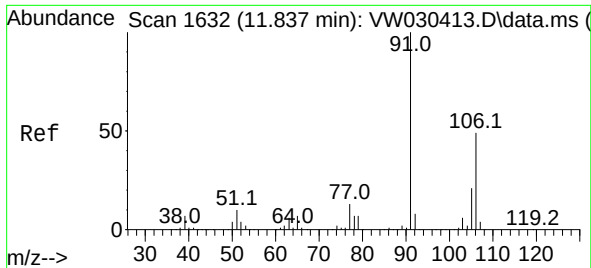
Ion Ratio Lower Upper

107 100

109 95.6 67.8 125.8

188 3.8 2.9 4.3

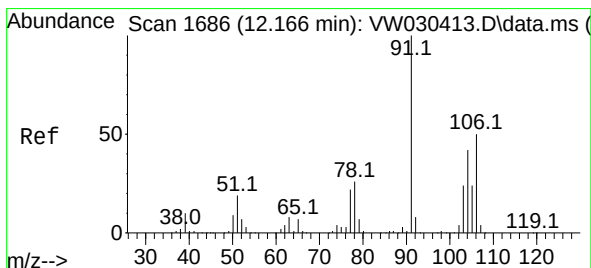
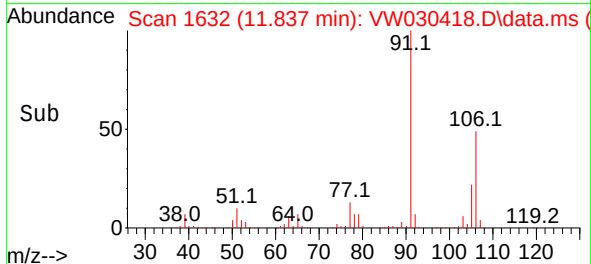
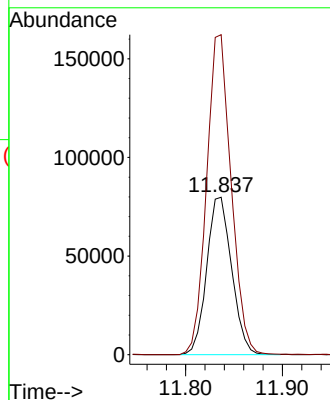
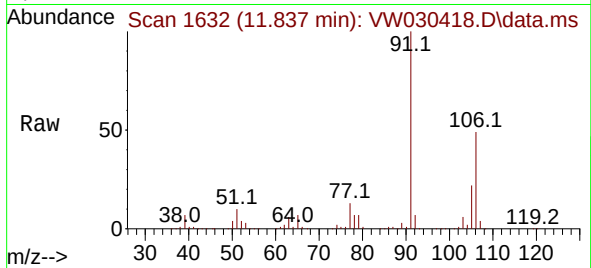




#53
m,p-Xylene
Concen: 29.319 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

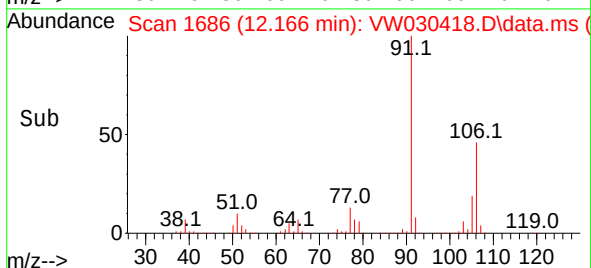
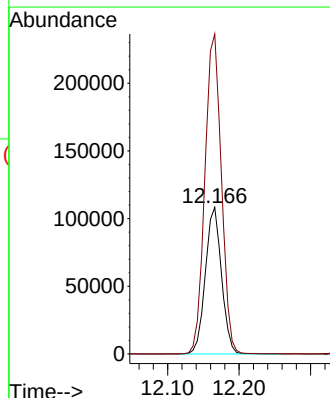
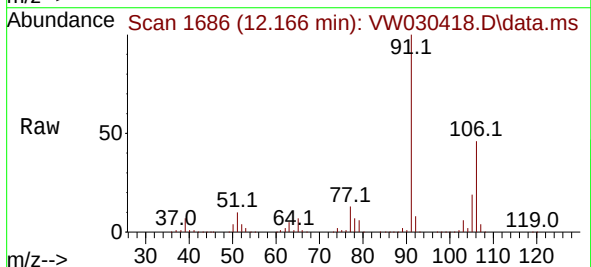
Instrument :
MSVOA_W
ClientSampleId :

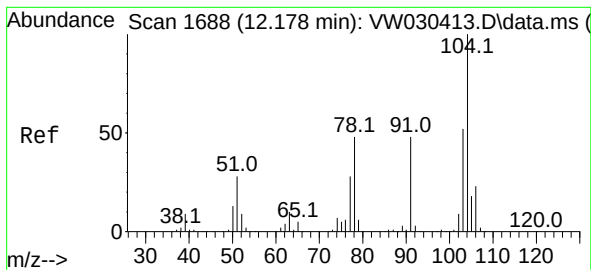
Tgt Ion:106 Resp: 143245
Ion Ratio Lower Upper
106 100
91 203.2 144.4 268.2



#54
o-Xylene
Concen: 36.537 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW030418.D
Acq: 07 Oct 2024 15:27

Tgt Ion:106 Resp: 169904
Ion Ratio Lower Upper
106 100
91 218.4 153.6 285.2





#55

Styrene

Concen: 1.147 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.018 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

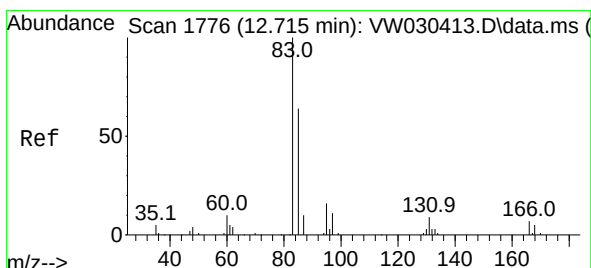
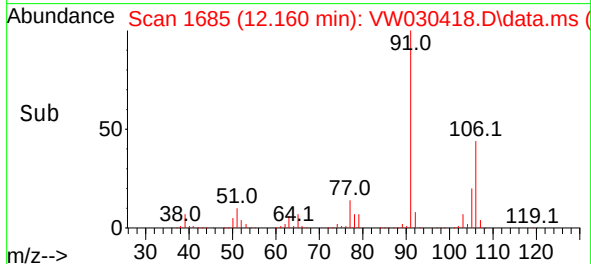
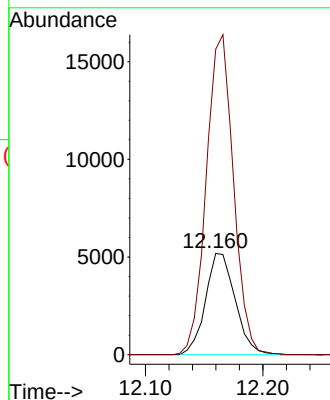
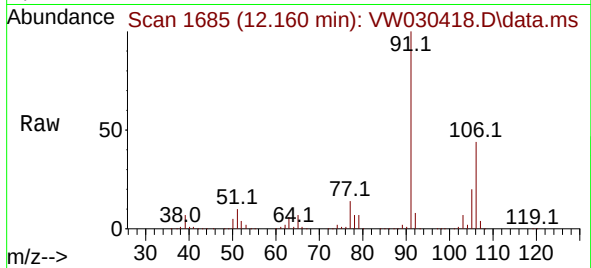
ClientSampleId :

Tgt Ion:104 Resp: 9101

Ion Ratio Lower Upper

104 100

78 301.5 34.6 64.3#



#57

1,1,2,2-Tetrachloroethane

Concen: 27.476 ug/L

RT: 12.708 min Scan# 1775

Delta R.T. -0.006 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

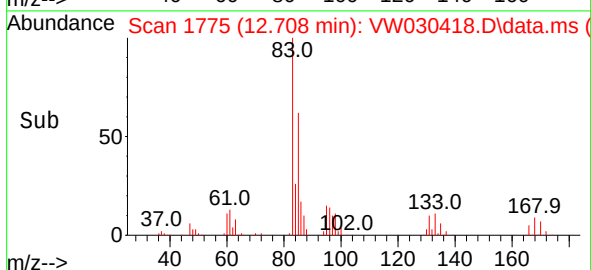
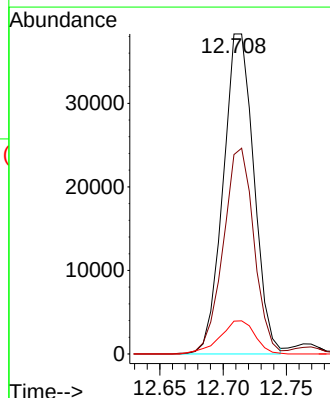
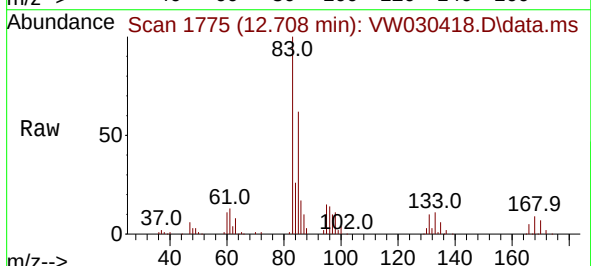
Tgt Ion: 83 Resp: 64568

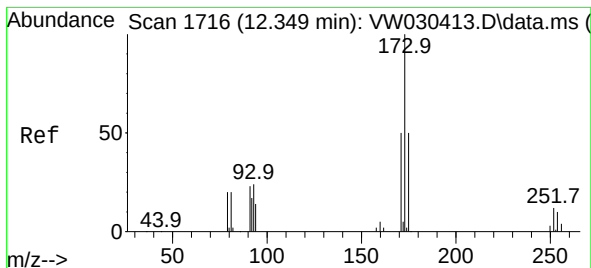
Ion Ratio Lower Upper

83 100

85 62.3 43.9 81.5

131 10.3 7.1 10.7





#59

Bromoform

Concen: 9.969 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

ClientSampleId :

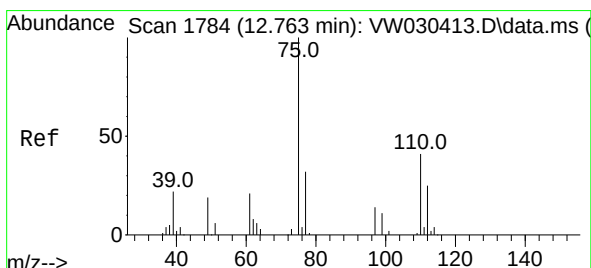
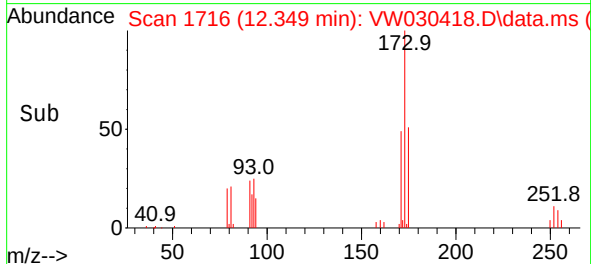
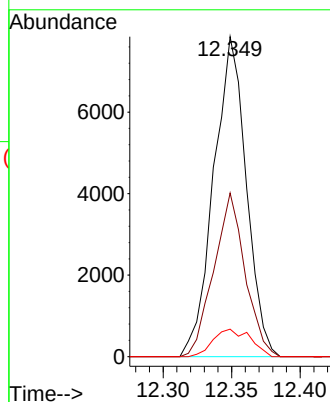
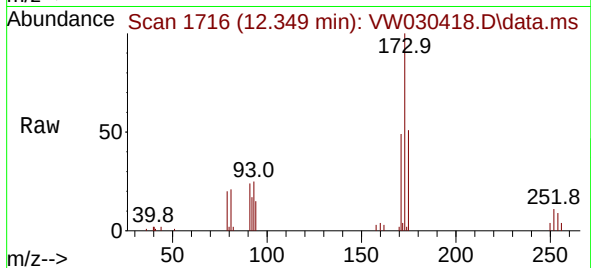
Tgt Ion:173 Resp: 12975

Ion Ratio Lower Upper

173 100

175 49.0 38.7 58.1

254 9.9 7.4 11.2



#61

1,2,3-Trichloropropane

Concen: 42.088 ug/L

RT: 12.763 min Scan# 1784

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

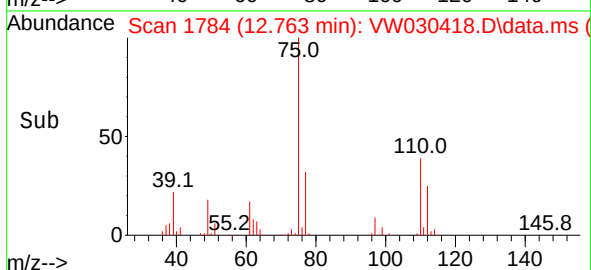
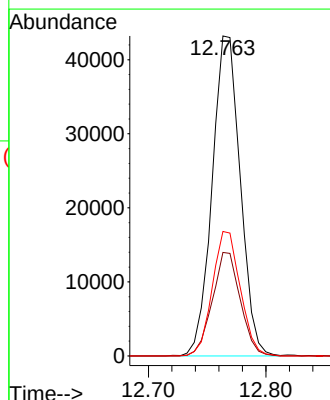
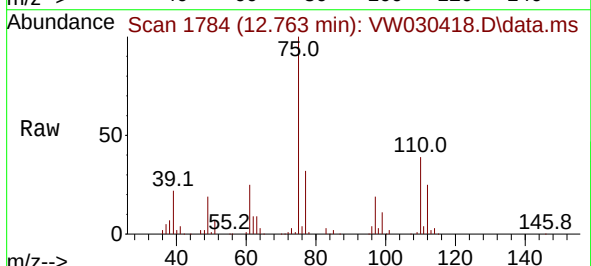
Tgt Ion: 75 Resp: 71883

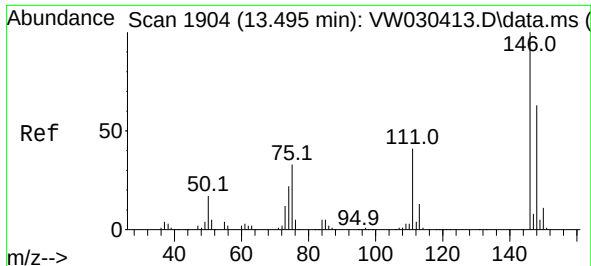
Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.2

110 38.7 30.8 46.2





#64

1,3-Dichlorobenzene

Concen: 22.488 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

ClientSampleId :

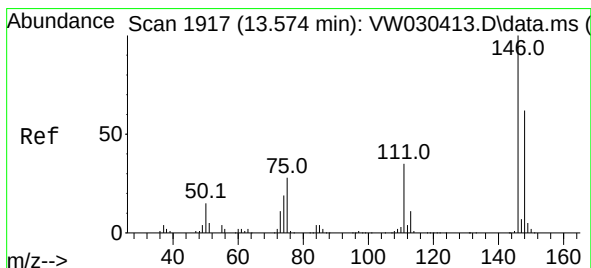
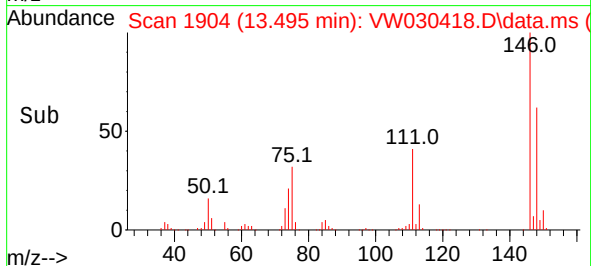
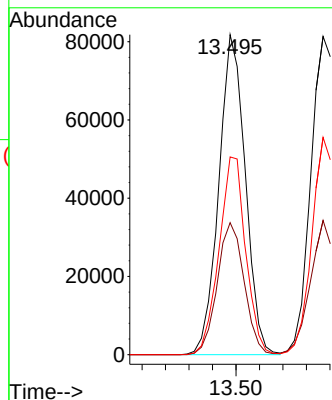
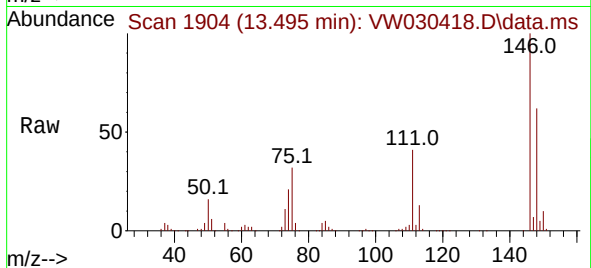
Tgt Ion:146 Resp: 128154

Ion Ratio Lower Upper

146 100

111 41.3 33.2 61.6

148 61.8 50.4 93.6



#65

1,4-Dichlorobenzene

Concen: 22.421 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

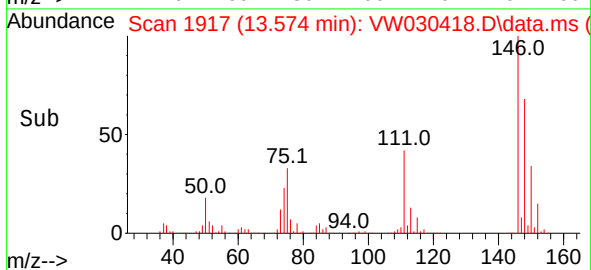
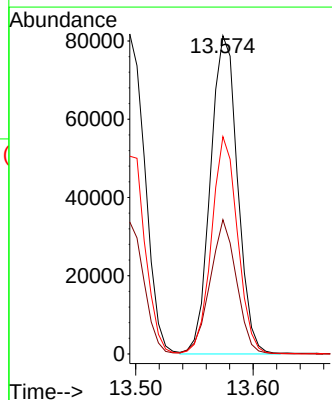
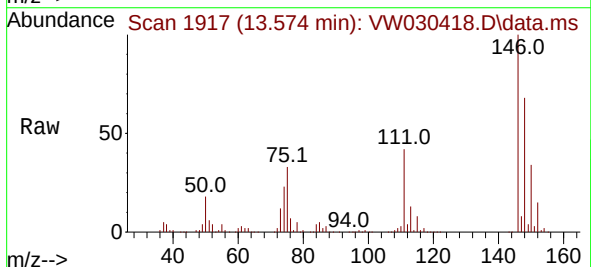
Tgt Ion:146 Resp: 130524

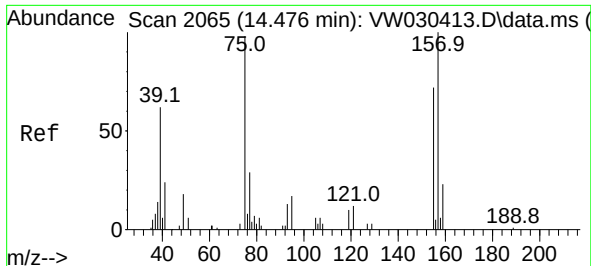
Ion Ratio Lower Upper

146 100

111 42.2 29.1 54.1

148 68.3 42.1 78.1





#68

1,2-Dibromo-3-chloropropane

Concen: 11.464 ug/L

RT: 14.483 min Scan# 2066

Delta R.T. 0.006 min

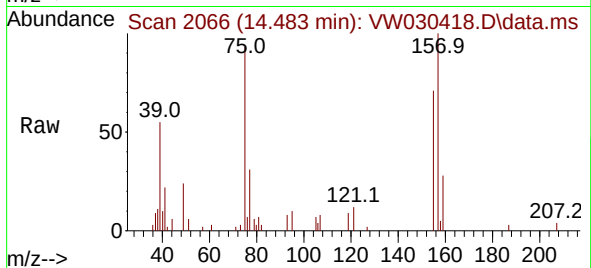
Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

ClientSampleId :



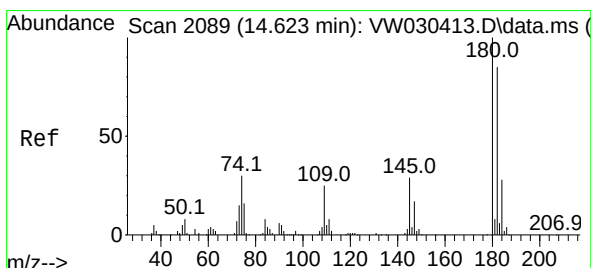
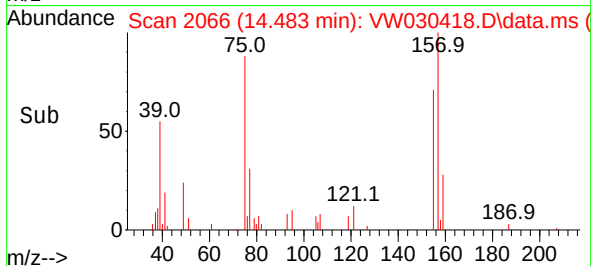
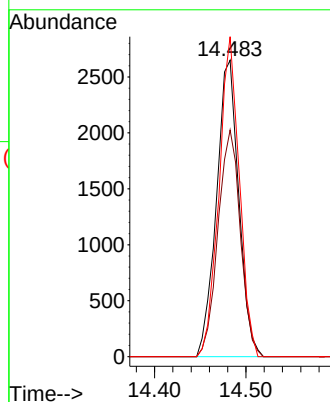
Tgt Ion: 75 Resp: 4486

Ion Ratio Lower Upper

75 100

155 76.5 60.1 90.1

157 107.9 74.3 111.5



#69

1,3,5-Trichlorobenzene

Concen: 9.792 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.506 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Tgt Ion: 180 Resp: 38514

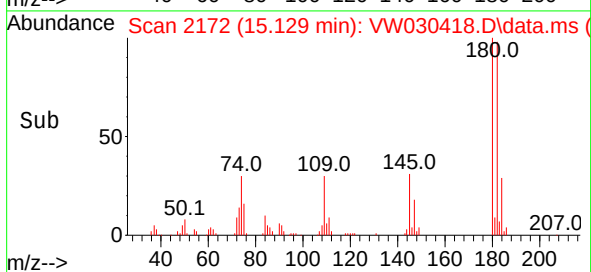
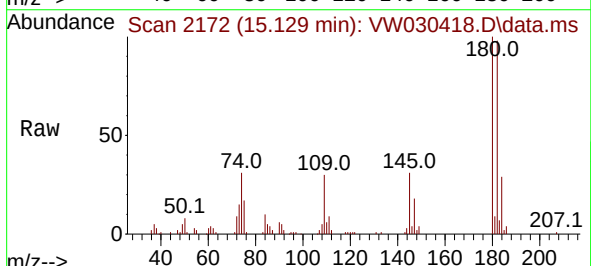
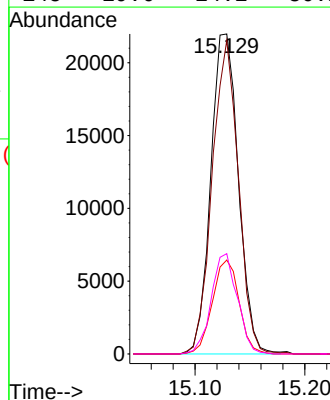
Ion Ratio Lower Upper

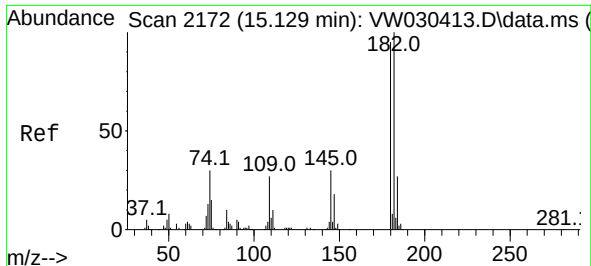
180 100

182 92.8 77.4 116.2

184 28.4 24.5 36.7

145 29.6 24.2 36.2





#70

1,2,4-trichlorobenzene

Concen: 11.827 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Instrument :

MSVOA_W

ClientSampleId :

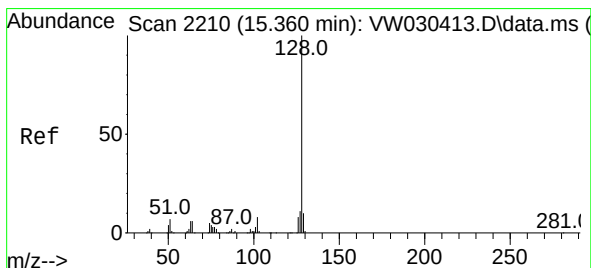
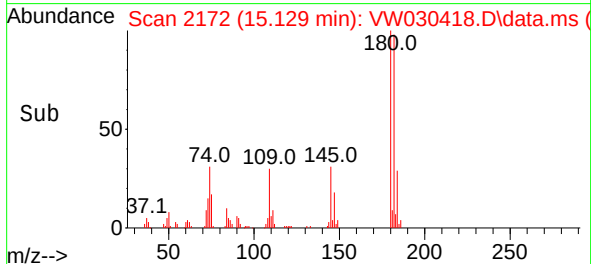
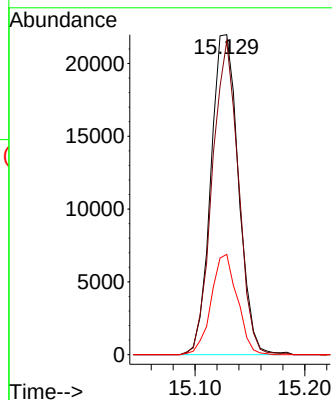
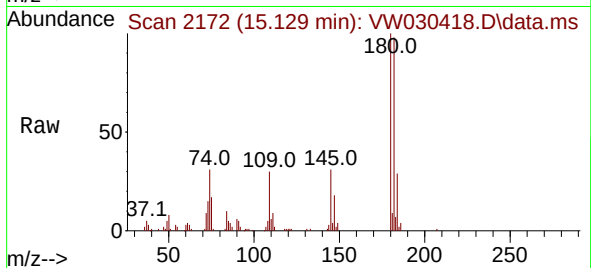
Tgt Ion:180 Resp: 38514

Ion Ratio Lower Upper

180 100

182 92.8 77.2 115.8

145 29.6 25.3 37.9



#71

Naphthalene

Concen: 40.351 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VW030418.D

Acq: 07 Oct 2024 15:27

Tgt Ion:128 Resp: 240354

Ion Ratio Lower Upper

128 100

127 13.1 10.8 16.2

129 10.5 8.8 13.2

