

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092324\
 Data File : VW030200.D
 Acq On : 23 Sep 2024 15:18
 Operator : SY/MD
 Sample : P4109-12
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 24 01:19:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM091624SMA.M
 Quant Title : SFAM01.0
 QLast Update : Tue Sep 24 01:15:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	346520	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	304854	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	153441	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	108293	24.200	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.800%
7) Chloroethane-d5	2.899	69	87389	27.661	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.640%
11) 1,1-Dichloroethene-d2	4.021	65	47552	21.267	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.080%
21) 2-Butanone-d5	7.075	46	57898	53.432	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	106.860%
24) Chloroform-d	7.648	84	255332	26.799	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.200%
26) 1,2-Dichloroethane-d4	8.307	65	118977	24.867	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.480%
32) Benzene-d6	8.276	84	434013	24.713	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.840%
36) 1,2-Dichloropropane-d6	9.276	67	131356	24.225	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.880%
41) Toluene-d8	10.319	98	399290	25.371	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.480%
43) trans-1,3-Dichloroprop...	10.575	79	56628	26.067	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.280%
47) 2-Hexanone-d5	10.922	63	49434	59.578	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	119.160%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	108184	26.798	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	107.200%
66) 1,2-Dichlorobenzene-d4	13.848	152	130398	25.034	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.120%
Target Compounds						
					Qvalue	
13) Acetone	4.118	43	93348	75.088	ug/L	99
16) Methylene chloride	4.917	84	392527	76.820	ug/L	97
17) trans-1,2-Dichloroethene	5.435	96	146234	32.070	ug/L	95
18) Methyl tert-butyl Ether	5.429	73	320730	44.630	ug/L	97
19) 1,1-Dichloroethane	6.222	63	765409	82.665	ug/L	98
22) 2-Butanone	7.167	43	296009	201.150	ug/L	100
25) Chloroform	7.679	83	814427	86.602	ug/L	98
30) 1,1,1-Trichloroethane	7.874	97	5182	0.703	ug/L	99
31) Carbon tetrachloride	8.069	117	112014	16.717	ug/L	99
33) Benzene	8.325	78	1268376	68.051	ug/L	100
34) Trichloroethene	9.093	95	507571	100.879	ug/L	97
37) 1,2-Dichloropropane	9.368	63	182205	36.067	ug/L	99
39) cis-1,3-Dichloropropene	10.075	75	488886	66.151	ug/L	96
40) 4-Methyl-2-pentanone	10.209	43	379297	146.938	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	462797	74.441	ug/L	95
45) 1,1,2-Trichloroethane	10.782	97	178774	48.633	ug/L	96
50) 1,2-Dibromoethane	11.233	107	158606	46.793	ug/L #	93
53) m,p-Xylene	11.830	106	435056	52.084	ug/L	99
54) o-Xylene	12.160	106	554659	70.565	ug/L	93

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Quant Title : SFAM01.0
QLast Update : Tue Sep 24 01:15:59 2024
Response via : Initial Calibration

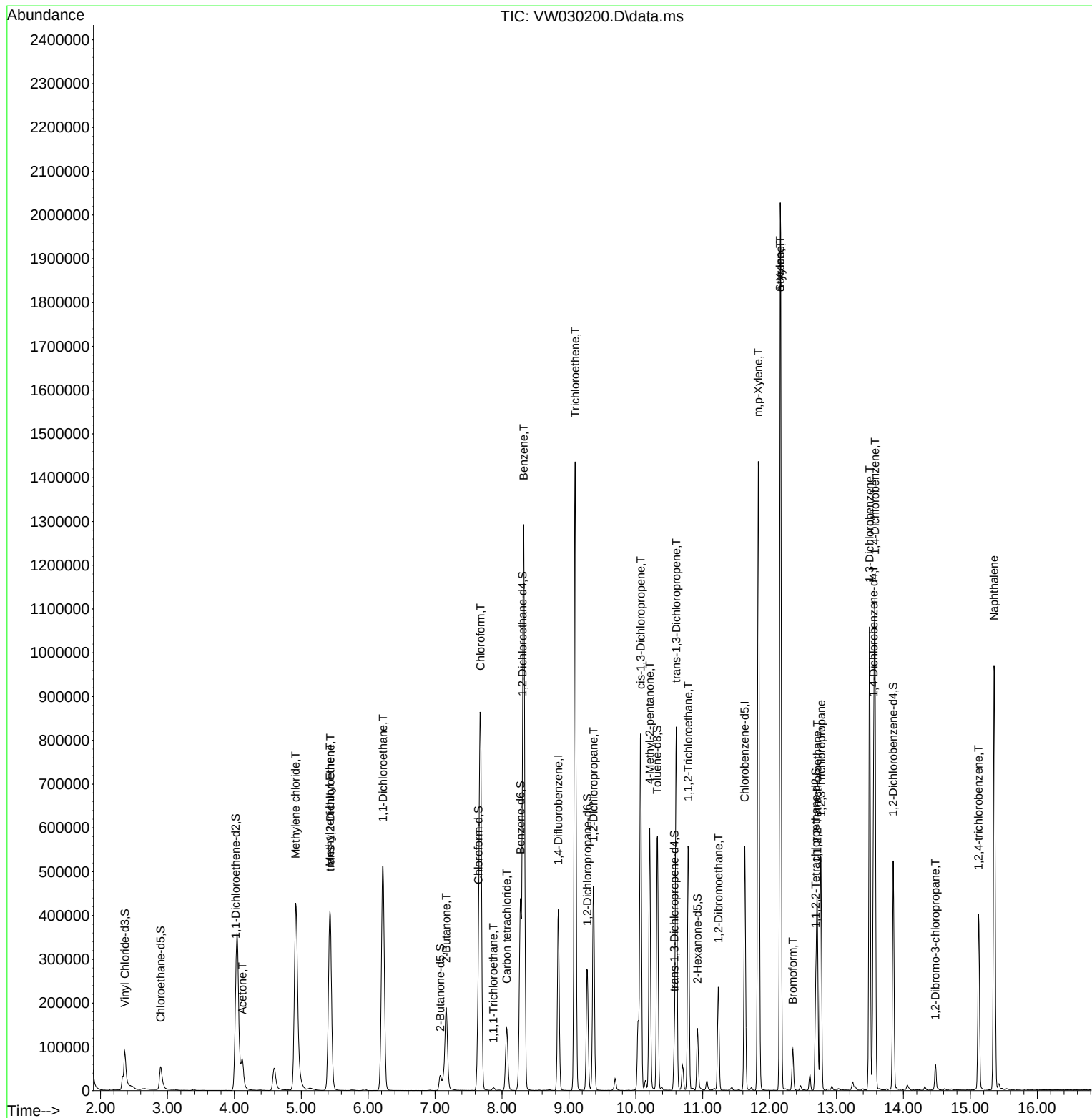
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	12.160	104	28358	2.080	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.714	83	208817	47.592	ug/L	99
59) Bromoform	12.349	173	42166	17.363	ug/L	97
61) 1,2,3-Trichloropropane	12.769	75	232047	72.694	ug/L	98
64) 1,3-Dichlorobenzene	13.495	146	419783	41.926	ug/L	92
65) 1,4-Dichlorobenzene	13.574	146	409878	39.624	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.476	75	15296	21.971	ug/L	92
70) 1,2,4-trichlorobenzene	15.123	180	125501	22.169	ug/L	95
71) Naphthalene	15.354	128	851447	82.823	ug/L	99

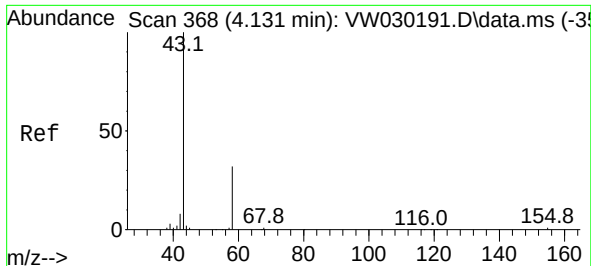
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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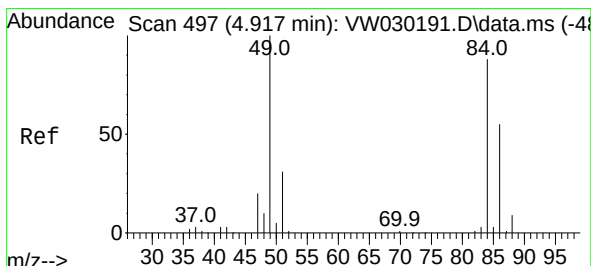
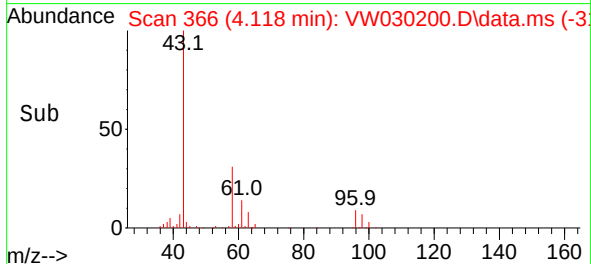
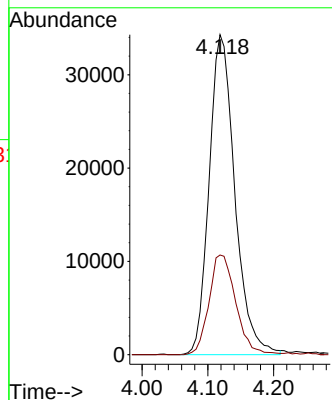
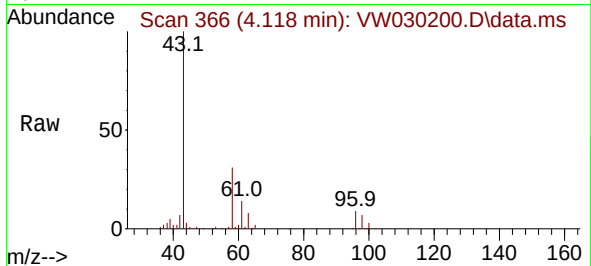




#13
Acetone
Concen: 75.088 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.012 min
Lab File: VW030200.D
Acq: 23 Sep 2024 15:18

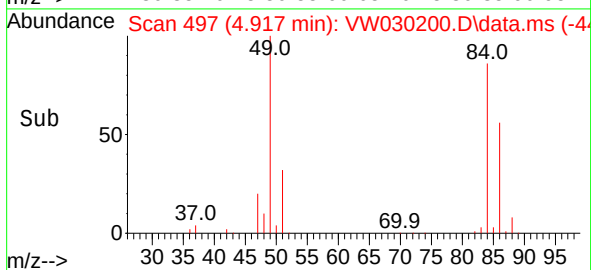
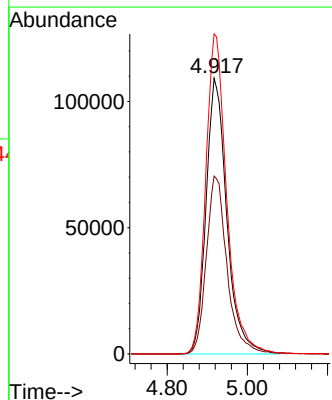
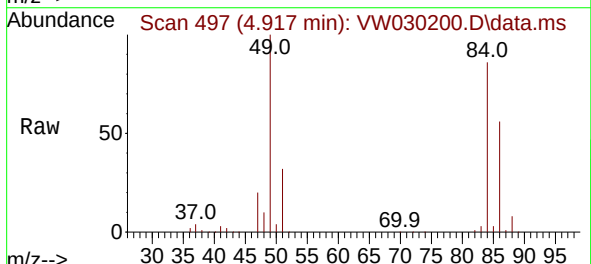
Instrument :
MSVOA_W
ClientSampleId :

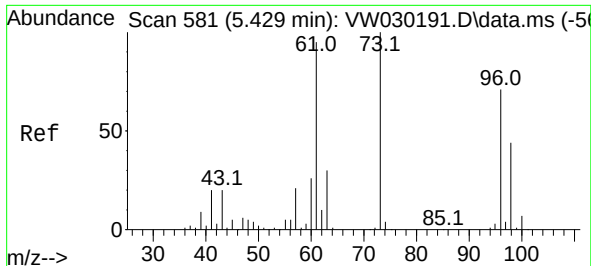
Tgt Ion: 43 Resp: 93348
Ion Ratio Lower Upper
43 100
58 32.2 0.0 65.0



#16
Methylene chloride
Concen: 76.820 ug/L
RT: 4.917 min Scan# 497
Delta R.T. -0.000 min
Lab File: VW030200.D
Acq: 23 Sep 2024 15:18

Tgt Ion: 84 Resp: 392527
Ion Ratio Lower Upper
84 100
86 64.5 44.6 82.8
49 116.1 83.8 155.6





#17

trans-1,2-Dichloroethene

Concen: 32.070 ug/L

RT: 5.435 min Scan# 581

Delta R.T. 0.006 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

ClientSampleId :

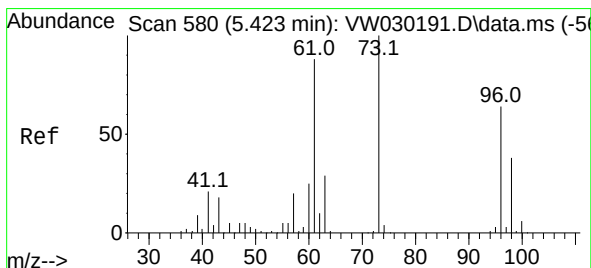
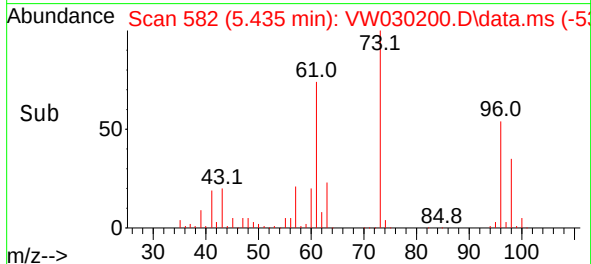
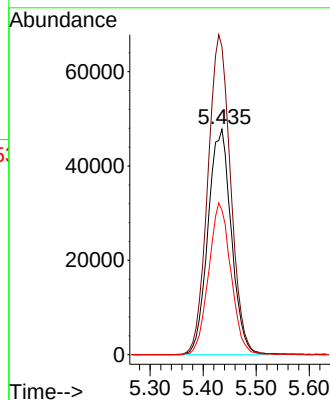
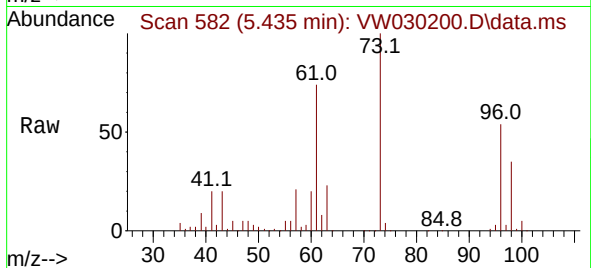
Tgt Ion: 96 Resp: 146234

Ion Ratio Lower Upper

96 100

61 136.6 100.8 187.2

98 64.0 43.0 80.0



#18

Methyl tert-butyl Ether

Concen: 44.630 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.006 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

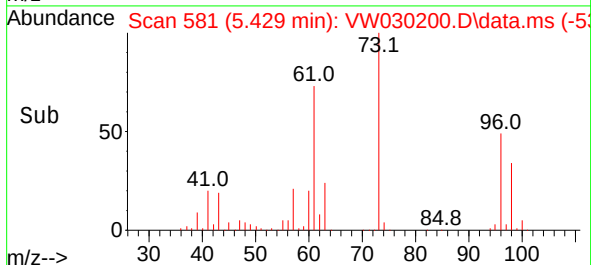
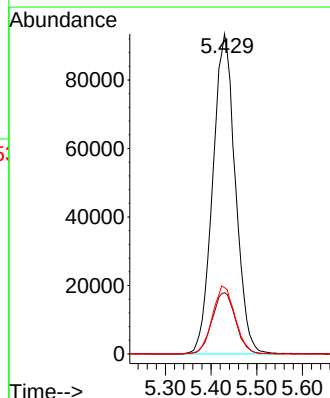
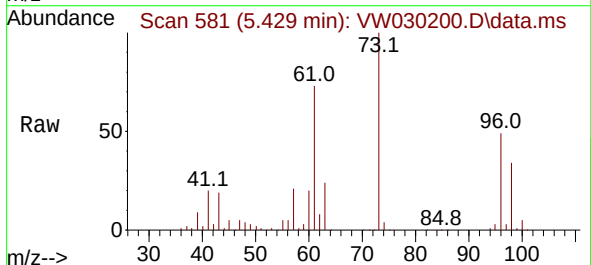
Tgt Ion: 73 Resp: 320730

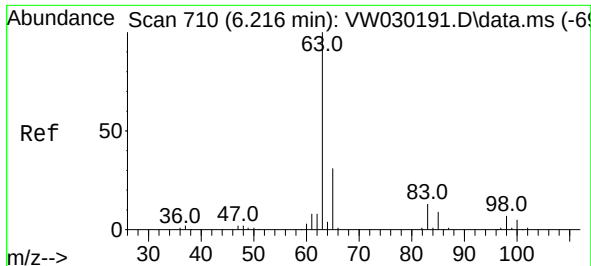
Ion Ratio Lower Upper

73 100

43 20.0 15.7 23.5

57 21.4 18.8 28.2





#19

1,1-Dichloroethane

Concen: 82.665 ug/L

RT: 6.222 min Scan# 711

Delta R.T. 0.006 min

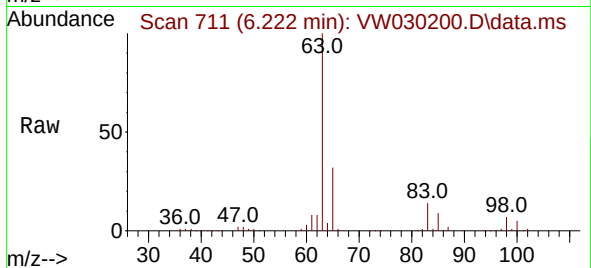
Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

ClientSampleId :



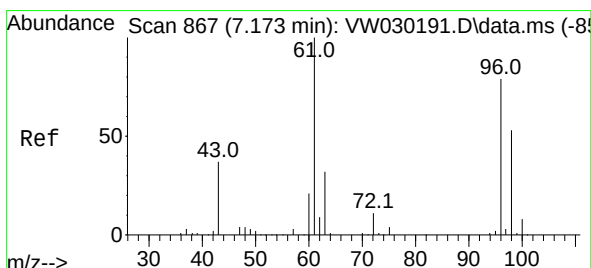
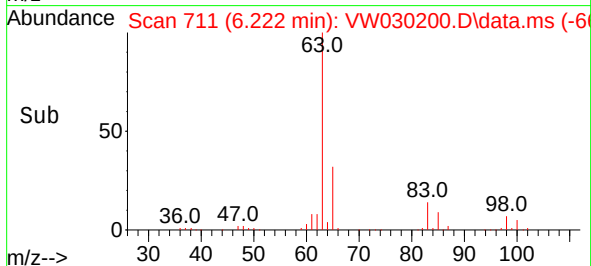
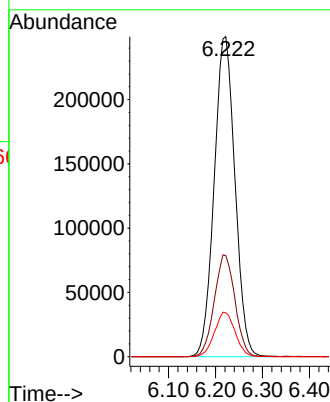
Tgt Ion: 63 Resp: 765409

Ion Ratio Lower Upper

63 100

65 31.6 21.6 40.0

83 13.7 9.0 16.8



#22

2-Butanone

Concen: 201.150 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.006 min

Lab File: VW030200.D

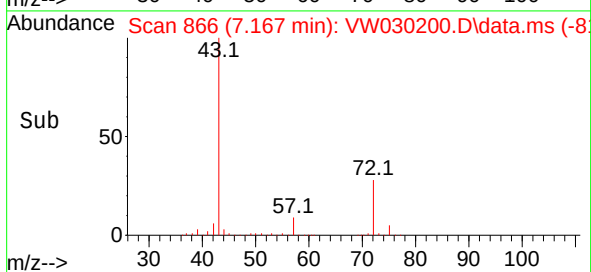
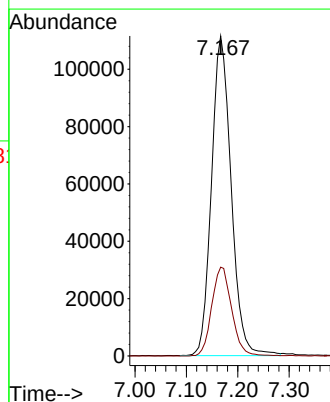
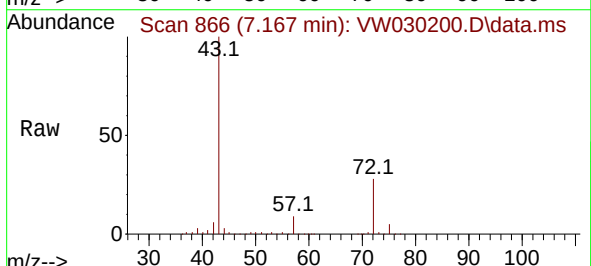
Acq: 23 Sep 2024 15:18

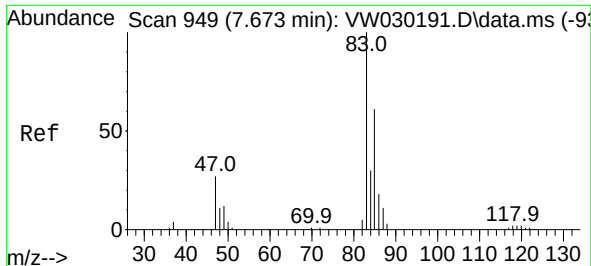
Tgt Ion: 43 Resp: 296009

Ion Ratio Lower Upper

43 100

72 28.0 13.9 41.7

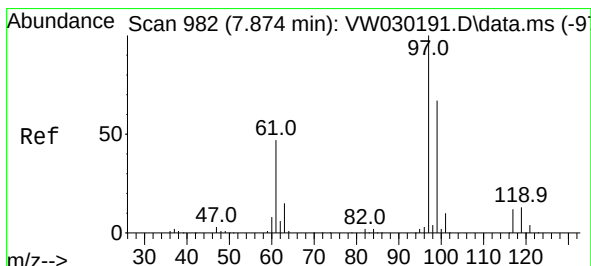
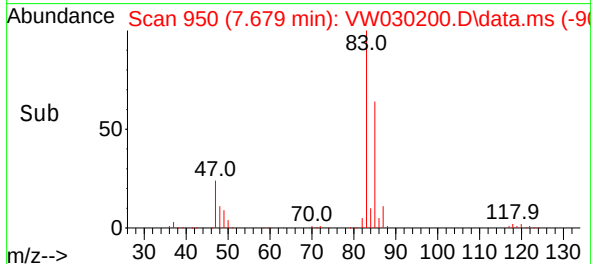
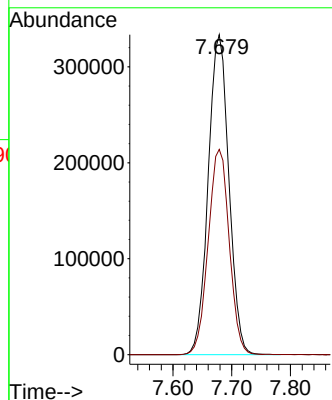
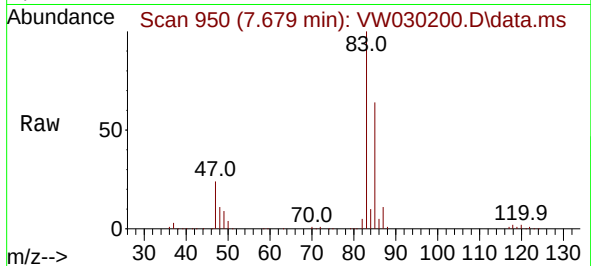




#25
Chloroform
Concen: 86.602 ug/L
RT: 7.679 min Scan# 949
Delta R.T. 0.006 min
Lab File: VW030200.D
Acq: 23 Sep 2024 15:18

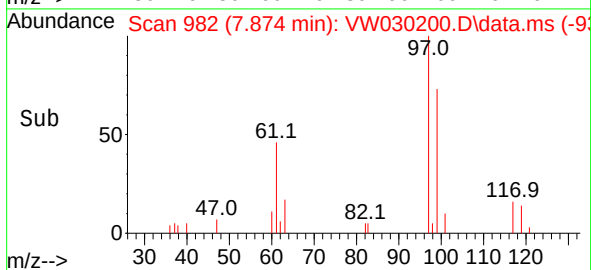
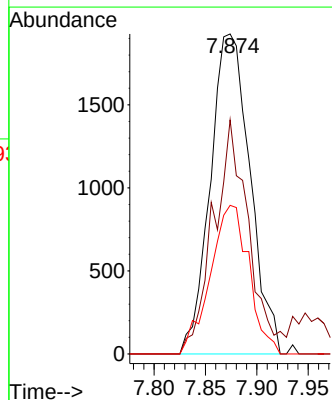
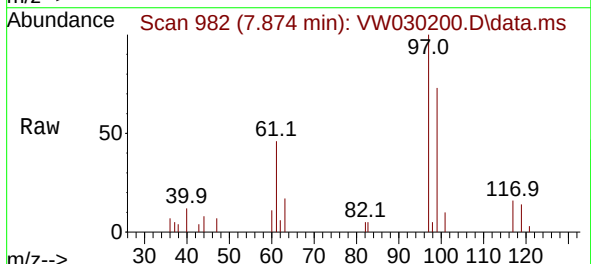
Instrument :
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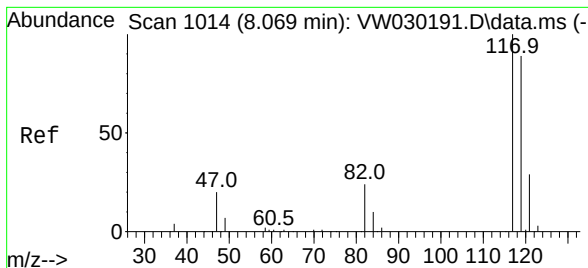
Tgt Ion: 83 Resp: 814427
Ion Ratio Lower Upper
83 100
85 64.1 46.1 85.5



#30
1,1,1-Trichloroethane
Concen: 0.703 ug/L
RT: 7.874 min Scan# 982
Delta R.T. -0.000 min
Lab File: VW030200.D
Acq: 23 Sep 2024 15:18

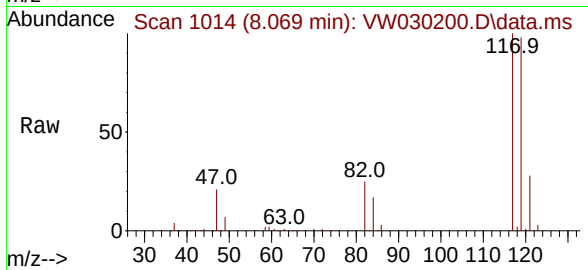
Tgt Ion: 97 Resp: 5182
Ion Ratio Lower Upper
97 100
99 65.0 51.3 76.9
61 45.1 36.4 54.6



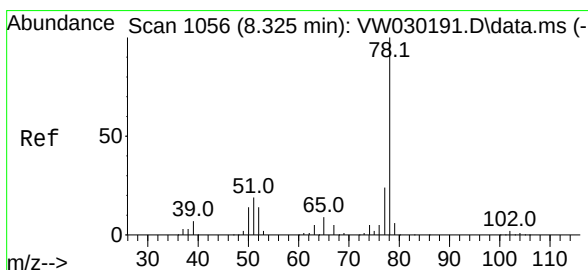
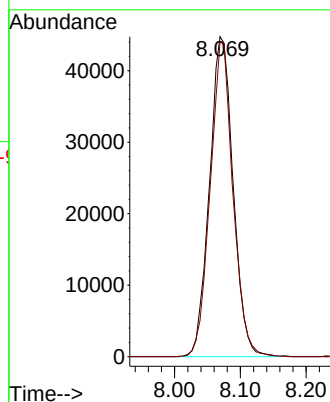
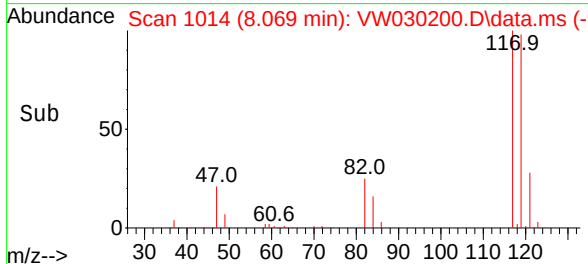


#31
Carbon tetrachloride
Concen: 16.717 ug/L
RT: 8.069 min Scan# 117
Delta R.T. -0.000 min
Lab File: VW030200.D
Acq: 23 Sep 2024 15:18

Instrument :
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ClientSampleId :

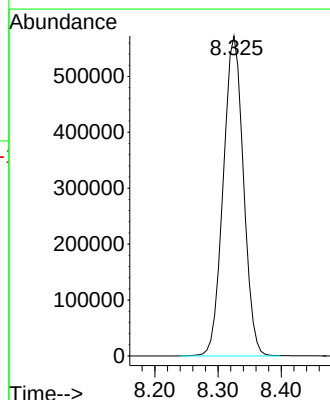
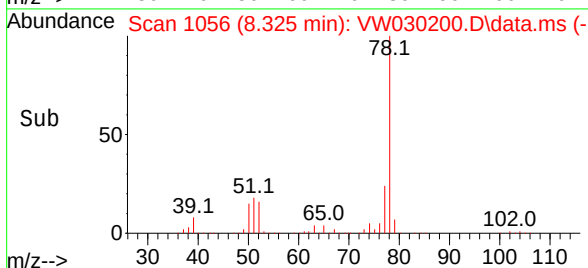
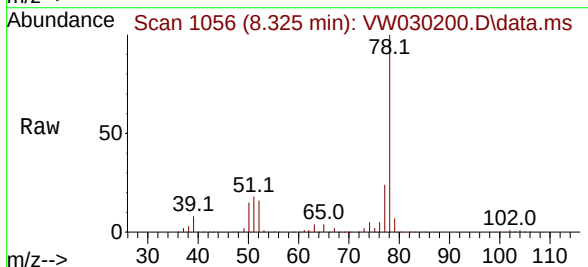


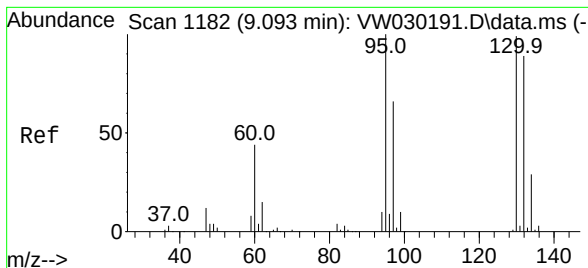
Tgt Ion:117 Resp: 112014
Ion Ratio Lower Upper
117 100
119 94.8 76.2 114.4



#33
Benzene
Concen: 68.051 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW030200.D
Acq: 23 Sep 2024 15:18

Tgt Ion: 78 Resp: 1268376





#34

Trichloroethene

Concen: 100.879 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 507571

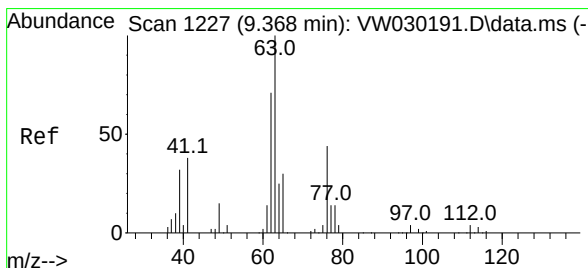
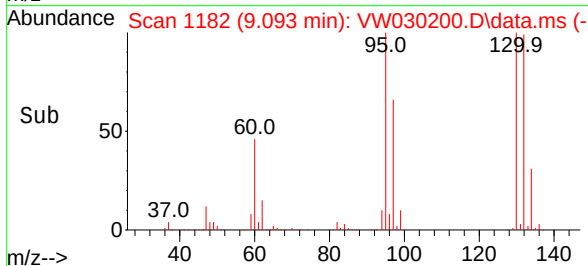
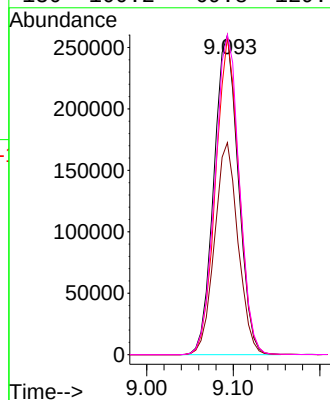
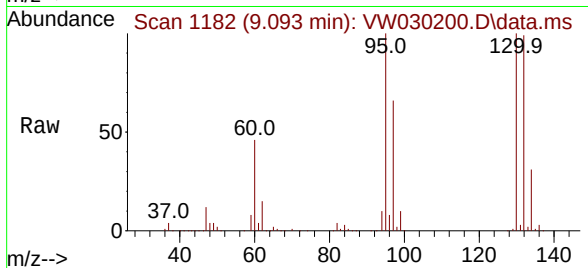
Ion Ratio Lower Upper

95 100

97 66.4 45.2 84.0

132 99.6 64.8 120.3

130 100.2 69.8 129.6



#37

1,2-Dichloropropane

Concen: 36.067 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW030200.D

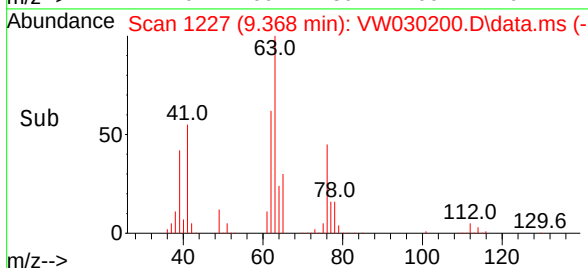
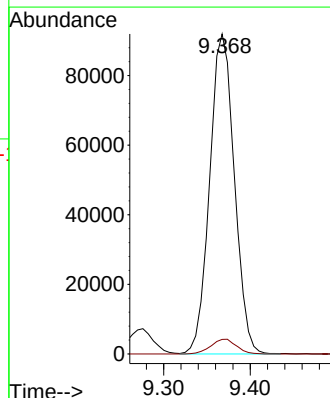
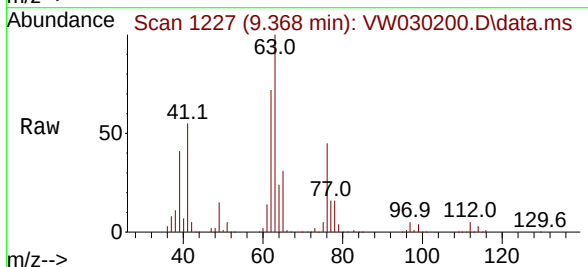
Acq: 23 Sep 2024 15:18

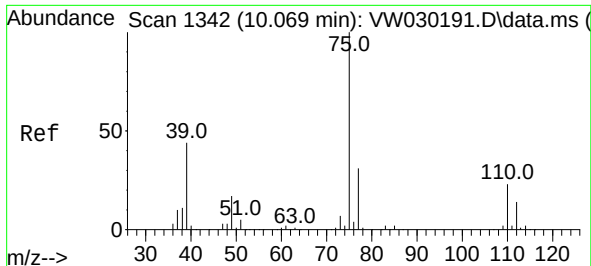
Tgt Ion: 63 Resp: 182205

Ion Ratio Lower Upper

63 100

112 4.8 3.5 5.3





#39

cis-1,3-Dichloropropene

Concen: 66.151 ug/L

RT: 10.075 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

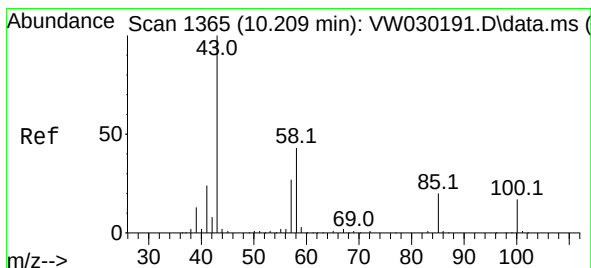
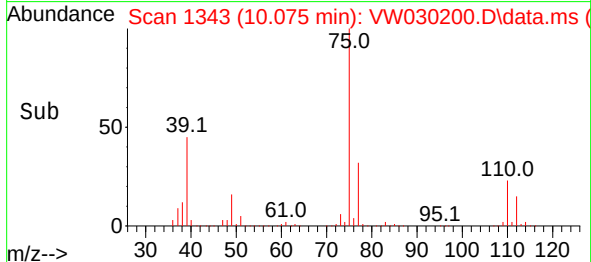
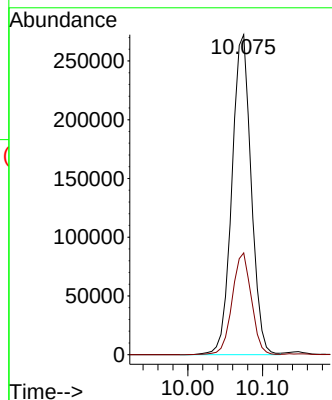
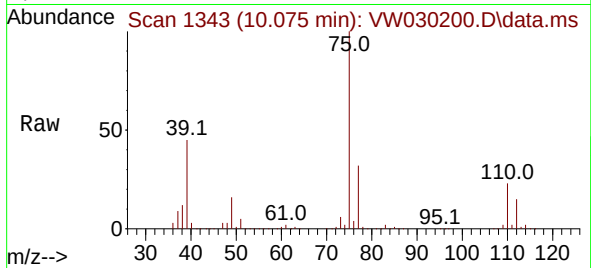
ClientSampleId :

Tgt Ion: 75 Resp: 488886

Ion Ratio Lower Upper

75 100

77 31.8 20.7 38.5



#40

4-Methyl-2-pentanone

Concen: 146.938 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

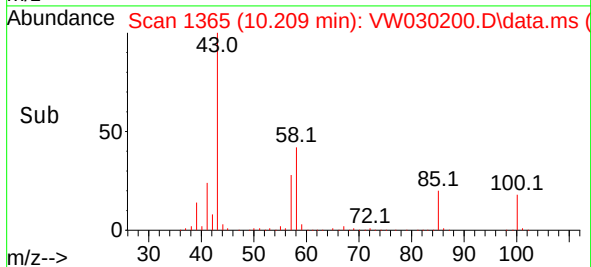
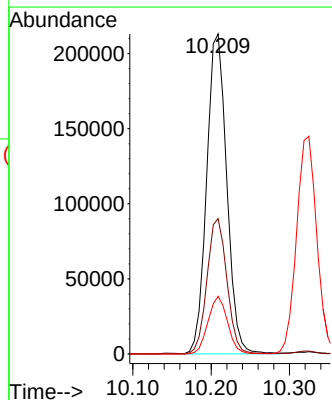
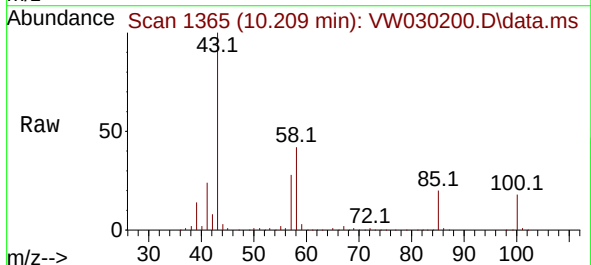
Tgt Ion: 43 Resp: 379297

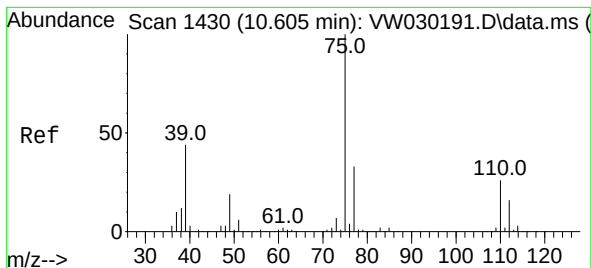
Ion Ratio Lower Upper

43 100

58 42.1 32.7 49.1

100 17.6 12.7 19.1





#44

trans-1,3-Dichloropropene

Concen: 74.441 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

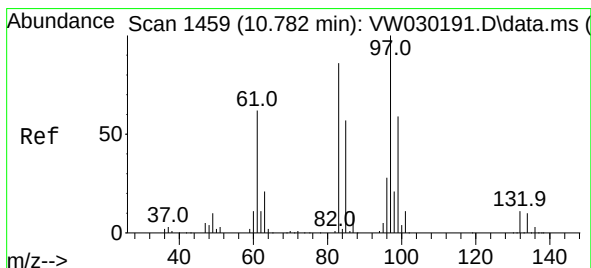
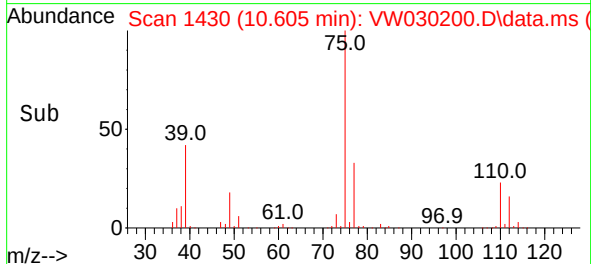
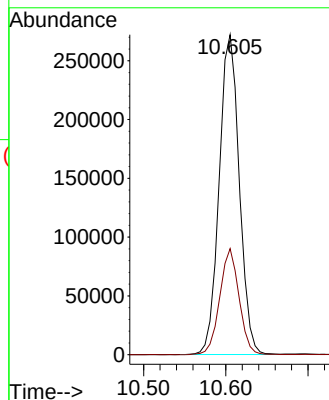
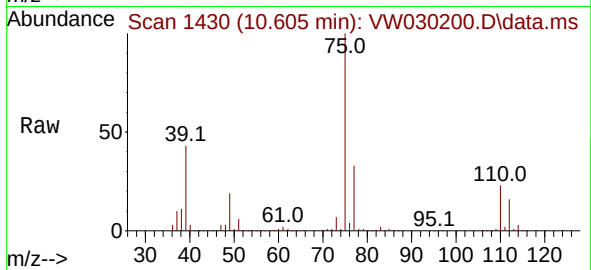
ClientSampleId :

Tgt Ion: 75 Resp: 462797

Ion Ratio Lower Upper

75 100

77 33.1 21.2 39.4



#45

1,1,2-Trichloroethane

Concen: 48.633 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Tgt Ion: 97 Resp: 178774

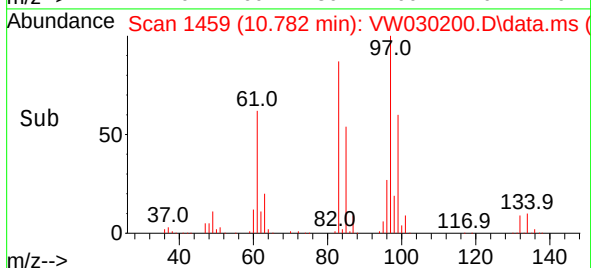
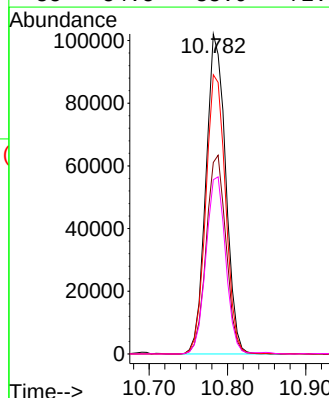
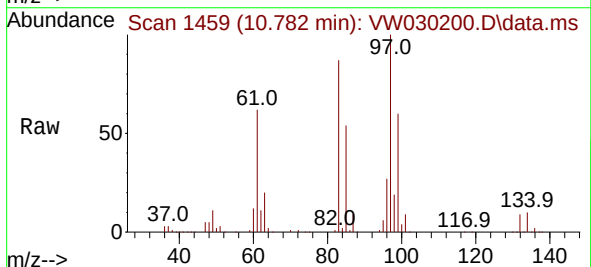
Ion Ratio Lower Upper

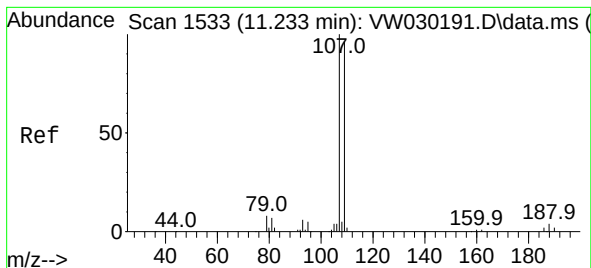
97 100

99 59.8 45.6 84.8

83 87.3 64.0 119.0

85 54.5 38.9 72.3





#50

1,2-Dibromoethane

Concen: 46.793 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

ClientSampleId :

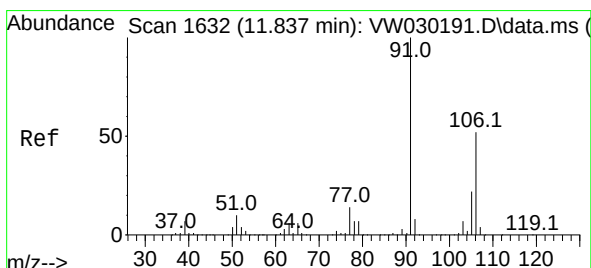
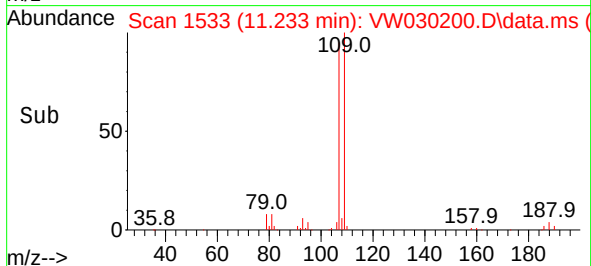
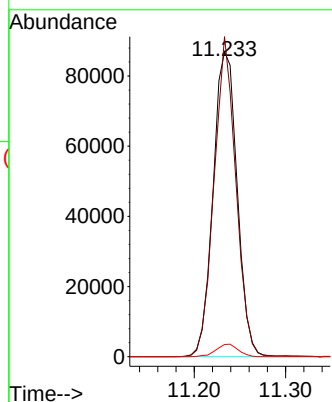
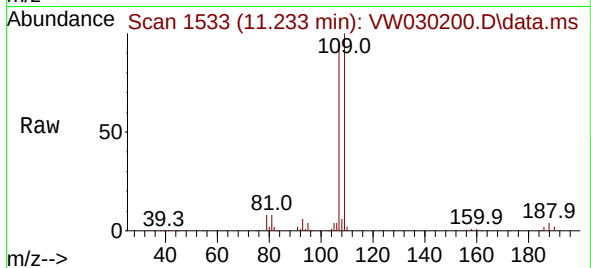
Tgt Ion:107 Resp: 158606

Ion Ratio Lower Upper

107 100

109 105.0 68.7 127.7

188 4.0 2.6 4.0#



#53

m,p-Xylene

Concen: 52.084 ug/L

RT: 11.830 min Scan# 1631

Delta R.T. -0.006 min

Lab File: VW030200.D

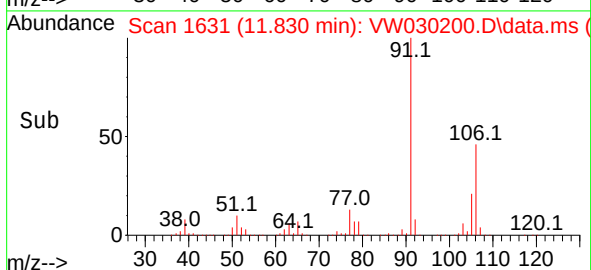
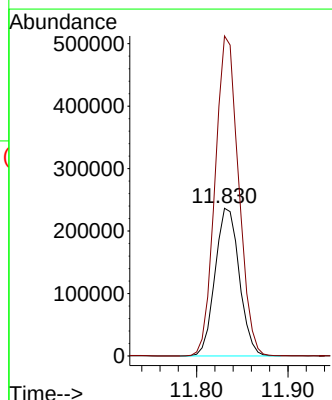
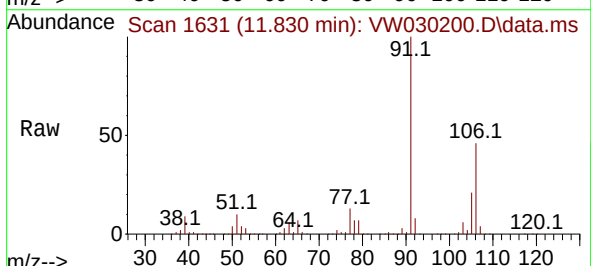
Acq: 23 Sep 2024 15:18

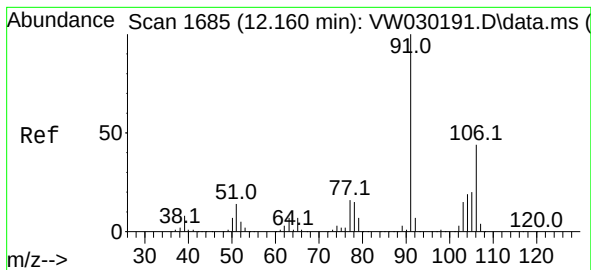
Tgt Ion:106 Resp: 435056

Ion Ratio Lower Upper

106 100

91 216.8 152.9 283.9





#54

o-Xylene

Concen: 70.565 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

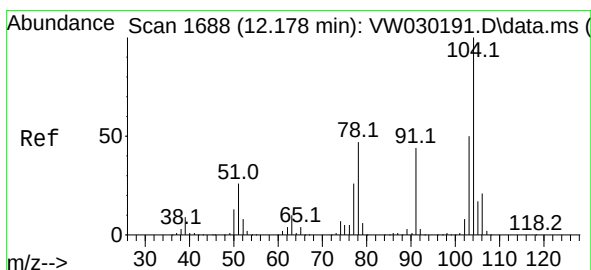
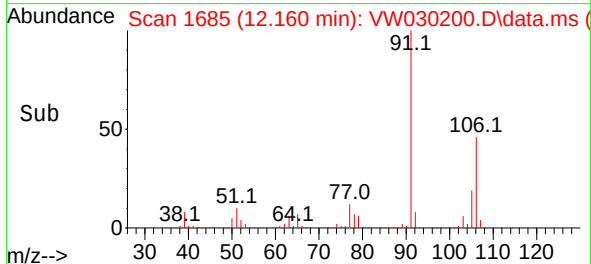
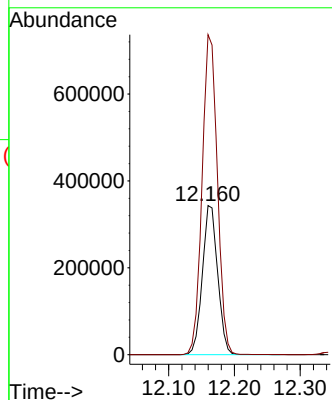
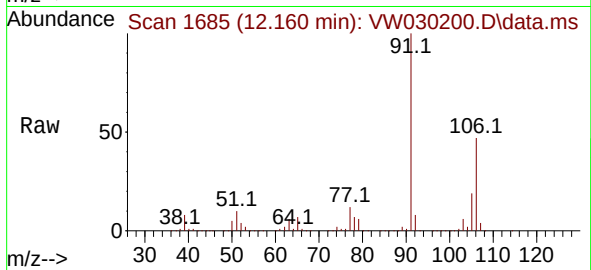
ClientSampleId :

Tgt Ion:106 Resp: 554659

Ion Ratio Lower Upper

106 100

91 214.6 158.1 293.7



#55

Styrene

Concen: 2.080 ug/L

RT: 12.160 min Scan# 1685

Delta R.T. -0.018 min

Lab File: VW030200.D

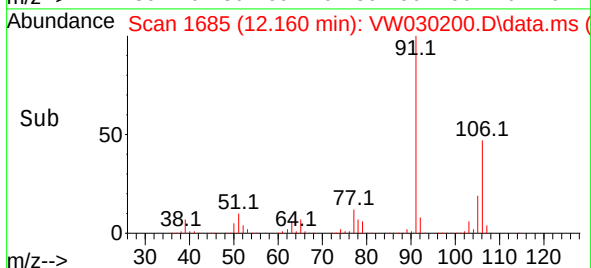
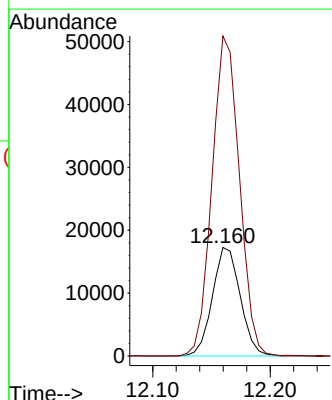
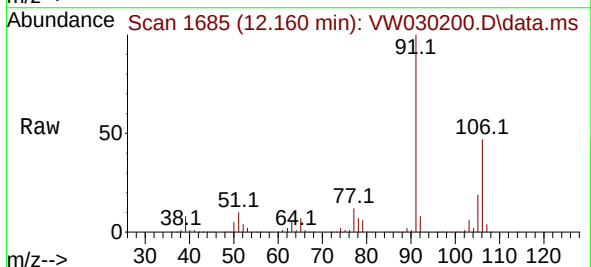
Acq: 23 Sep 2024 15:18

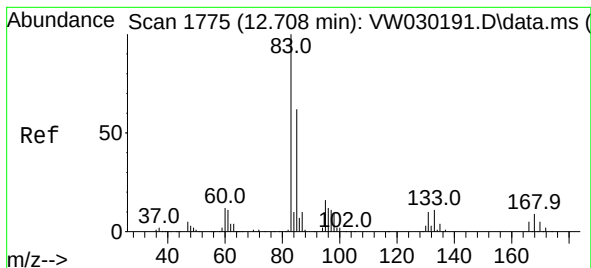
Tgt Ion:104 Resp: 28358

Ion Ratio Lower Upper

104 100

78 295.1 31.4 58.2#





#57

1,1,2,2-Tetrachloroethane

Concen: 47.592 ug/L

RT: 12.714 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

ClientSampleId :

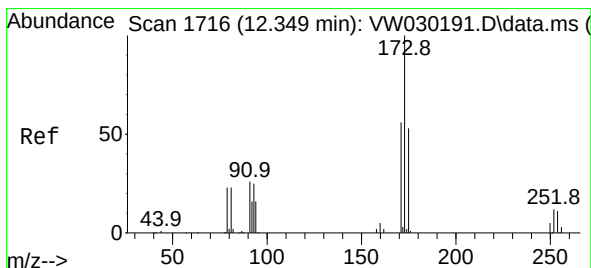
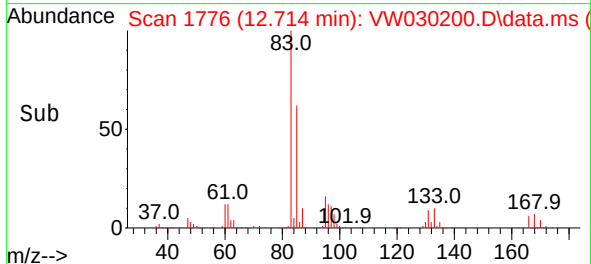
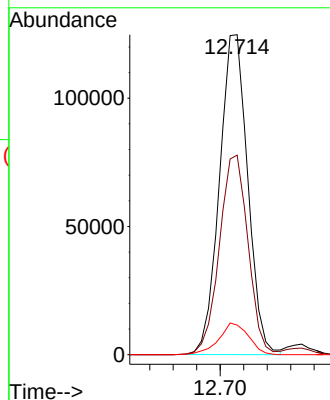
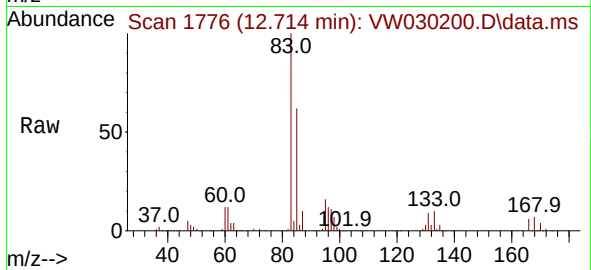
Tgt Ion: 83 Resp: 208817

Ion Ratio Lower Upper

83 100

85 62.4 44.5 82.7

131 9.3 7.4 11.2



#59

Bromoform

Concen: 17.363 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

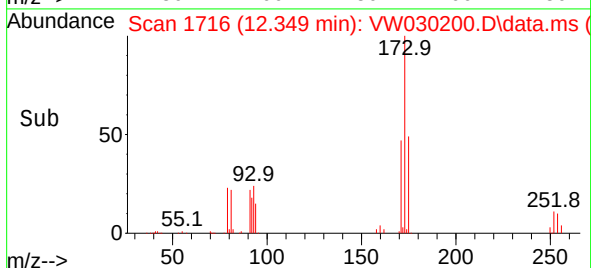
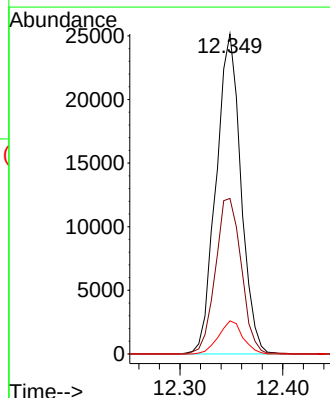
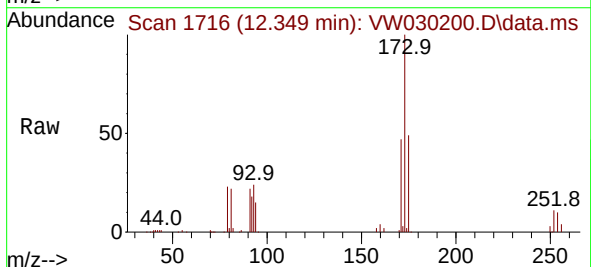
Tgt Ion:173 Resp: 42166

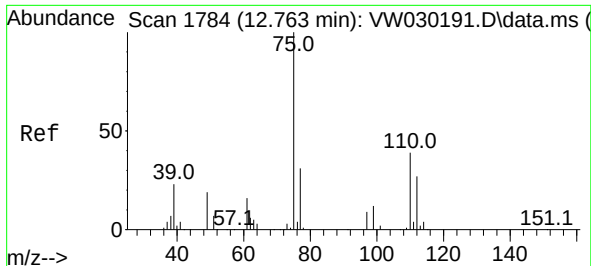
Ion Ratio Lower Upper

173 100

175 50.6 38.6 57.8

254 10.1 7.7 11.5





#61

1,2,3-Trichloropropane

Concen: 72.694 ug/L

RT: 12.769 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

ClientSampleId :

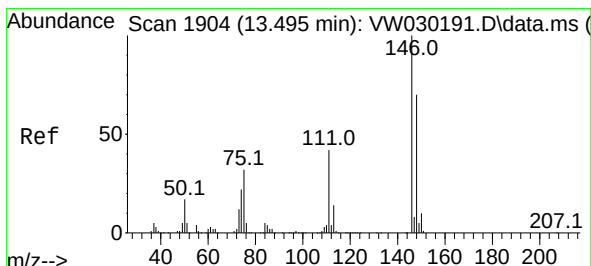
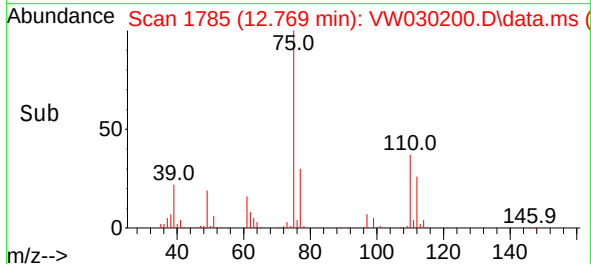
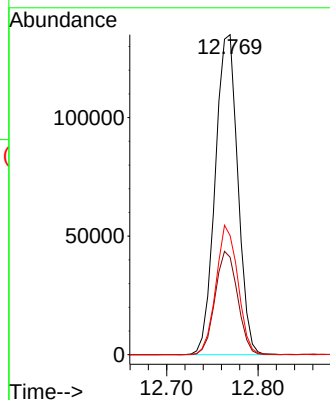
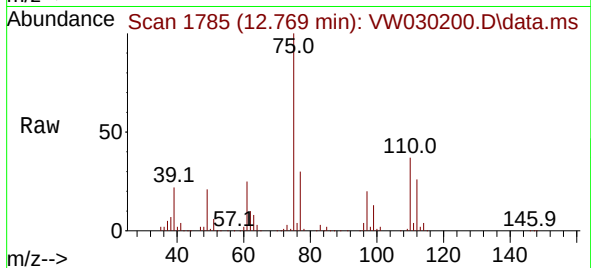
Tgt Ion: 75 Resp: 232047

Ion Ratio Lower Upper

75 100

77 32.1 26.2 39.2

110 39.2 29.7 44.5



#64

1,3-Dichlorobenzene

Concen: 41.926 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

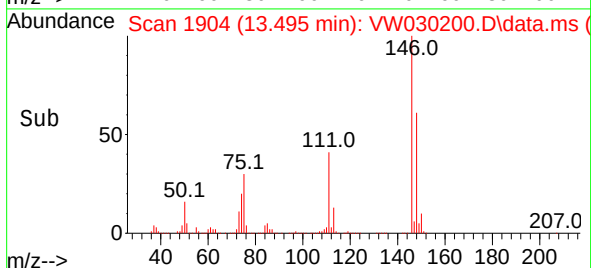
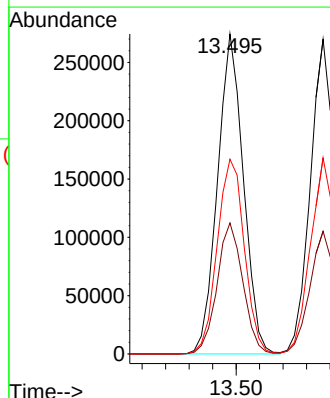
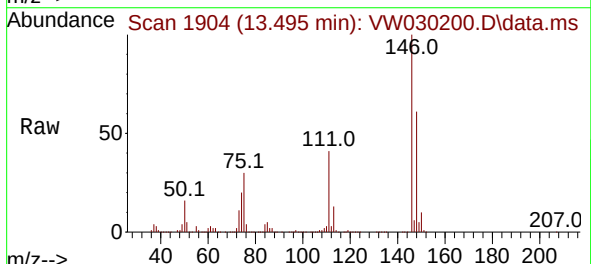
Tgt Ion:146 Resp: 419783

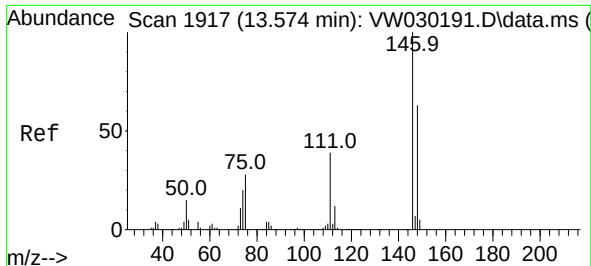
Ion Ratio Lower Upper

146 100

111 40.9 31.9 59.3

148 60.9 47.7 88.5





#65

1,4-Dichlorobenzene

Concen: 39.624 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

ClientSampleId :

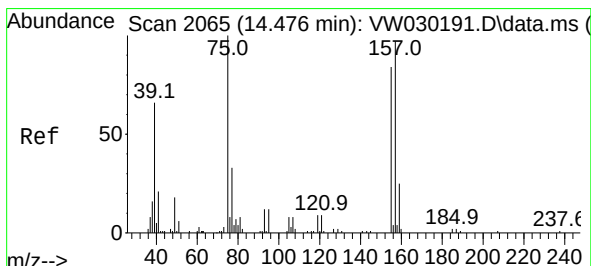
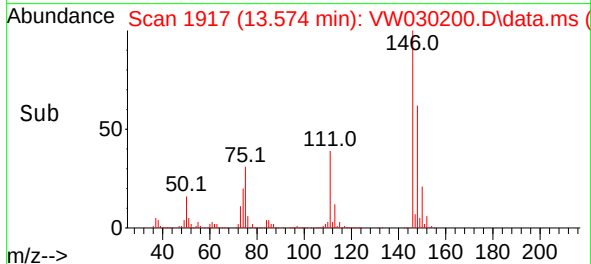
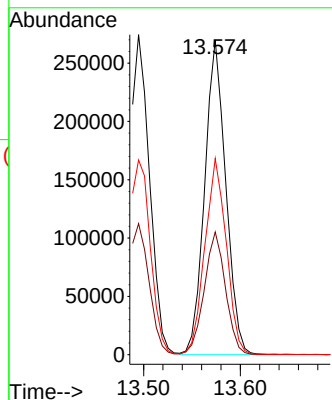
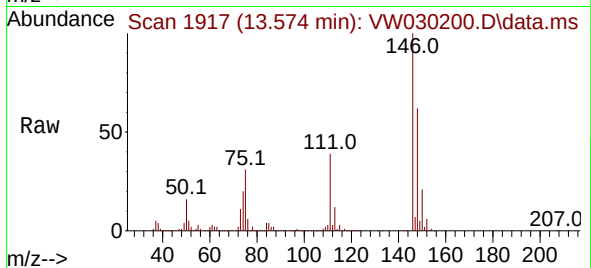
Tgt Ion:146 Resp: 409878

Ion Ratio Lower Upper

146 100

111 39.0 29.5 54.7

148 62.3 44.4 82.5



#68

1,2-Dibromo-3-chloropropane

Concen: 21.971 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

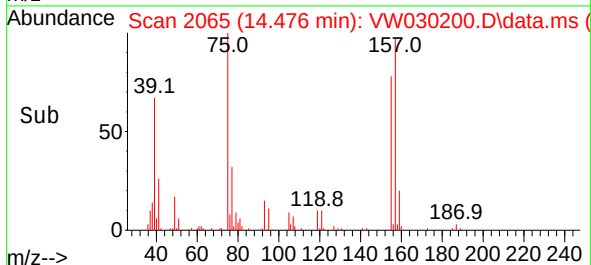
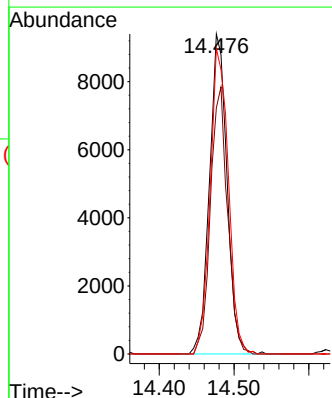
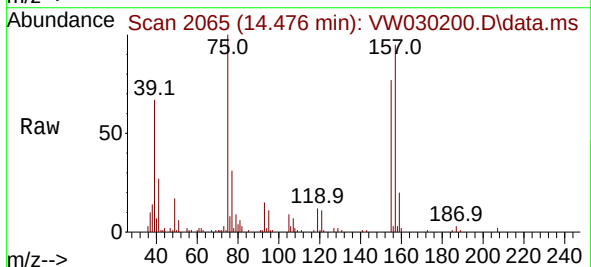
Tgt Ion: 75 Resp: 15296

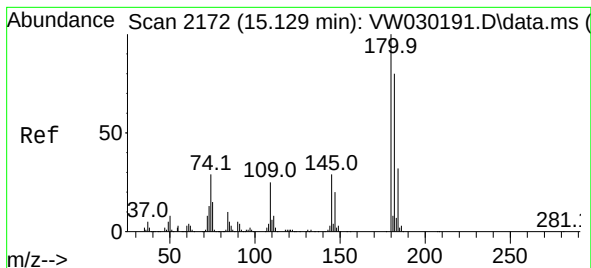
Ion Ratio Lower Upper

75 100

155 76.9 60.5 90.7

157 95.5 66.9 100.3





#70

1,2,4-trichlorobenzene

Concen: 22.169 ug/L

RT: 15.123 min Scan# 2172

Delta R.T. -0.006 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Instrument :

MSVOA_W

ClientSampleId :

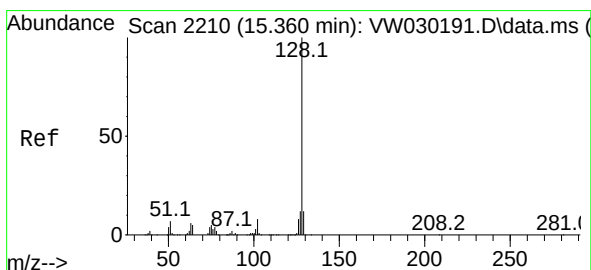
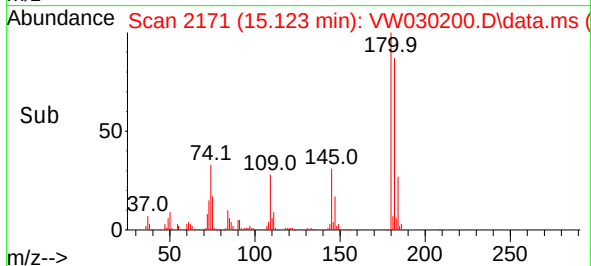
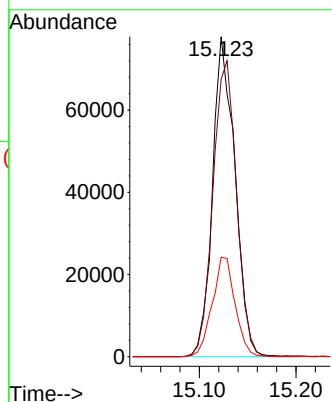
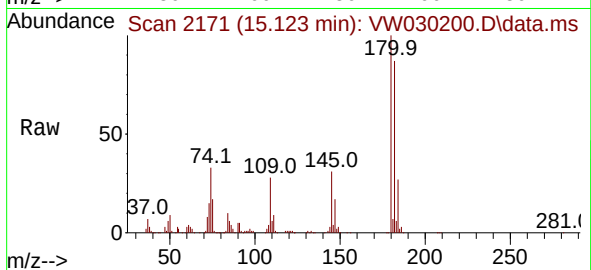
Tgt Ion:180 Resp: 125501

Ion Ratio Lower Upper

180 100

182 96.8 73.4 110.2

145 31.7 24.0 36.0



#71

Naphthalene

Concen: 82.823 ug/L

RT: 15.354 min Scan# 2209

Delta R.T. -0.006 min

Lab File: VW030200.D

Acq: 23 Sep 2024 15:18

Tgt Ion:128 Resp: 851447

Ion Ratio Lower Upper

128 100

127 12.9 10.1 15.1

129 11.0 8.4 12.6

