

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100824\
 Data File : VW030455.D
 Acq On : 08 Oct 2024 18:11
 Operator : SY/MD
 Sample : P4329-01
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 09 01:20:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM092724SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Oct 09 01:13:46 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	109261	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	100665	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	58220	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	14638	17.145	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	68.560%
7) Chloroethane-d5	2.899	69	12274	19.758	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.040%
11) 1,1-Dichloroethene-d2	4.021	65	12383	19.869	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.480%
21) 2-Butanone-d5	7.075	46	11853	34.522	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	69.040%
24) Chloroform-d	7.654	84	72358	24.651	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.600%
26) 1,2-Dichloroethane-d4	8.307	65	32833	21.430	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	85.720%
32) Benzene-d6	8.276	84	119276	21.141	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	84.560%
36) 1,2-Dichloropropane-d6	9.276	67	33244	19.591	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	78.360%
41) Toluene-d8	10.325	98	121464	23.478	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.920%
43) trans-1,3-Dichloroprop...	10.581	79	15417	21.843	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.360%
47) 2-Hexanone-d5	10.922	63	11476	40.955	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	81.900%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	28876	22.773	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.080%
66) 1,2-Dichlorobenzene-d4	13.848	152	48962	25.330	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.320%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	4.039	101	447	0.350	ug/L #	24
12) 1,1-Dichloroethene	4.045	96	55529	43.745	ug/L #	71
13) Acetone	4.125	43	16487	45.266	ug/L	97
16) Methylene chloride	4.917	84	115986	68.971	ug/L	87
17) trans-1,2-Dichloroethene	5.429	96	46459	31.528	ug/L	89
18) Methyl tert-butyl Ether	5.429	73	99679	42.530	ug/L	96
19) 1,1-Dichloroethane	6.222	63	210491	75.008	ug/L	96
22) 2-Butanone	7.167	43	63116	135.556	ug/L	89
25) Chloroform	7.679	83	249133	85.603	ug/L	100
30) 1,1,1-Trichloroethane	7.874	97	1871	0.802	ug/L #	54
31) Carbon tetrachloride	8.075	117	40414	19.391	ug/L	100
33) Benzene	8.325	78	377719	61.604	ug/L	100
34) Trichloroethene	9.093	95	162864	99.860	ug/L	93
37) 1,2-Dichloropropane	9.368	63	49070	30.333	ug/L #	95
39) cis-1,3-Dichloropropene	10.069	75	144885	58.409	ug/L	100
40) 4-Methyl-2-pentanone	10.209	43	85532	102.793	ug/L #	89
44) trans-1,3-Dichloropropene	10.605	75	138417	67.344	ug/L	94
45) 1,1,2-Trichloroethane	10.788	97	53829	47.217	ug/L	95
50) 1,2-Dibromoethane	11.233	107	50219	46.555	ug/L	94

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

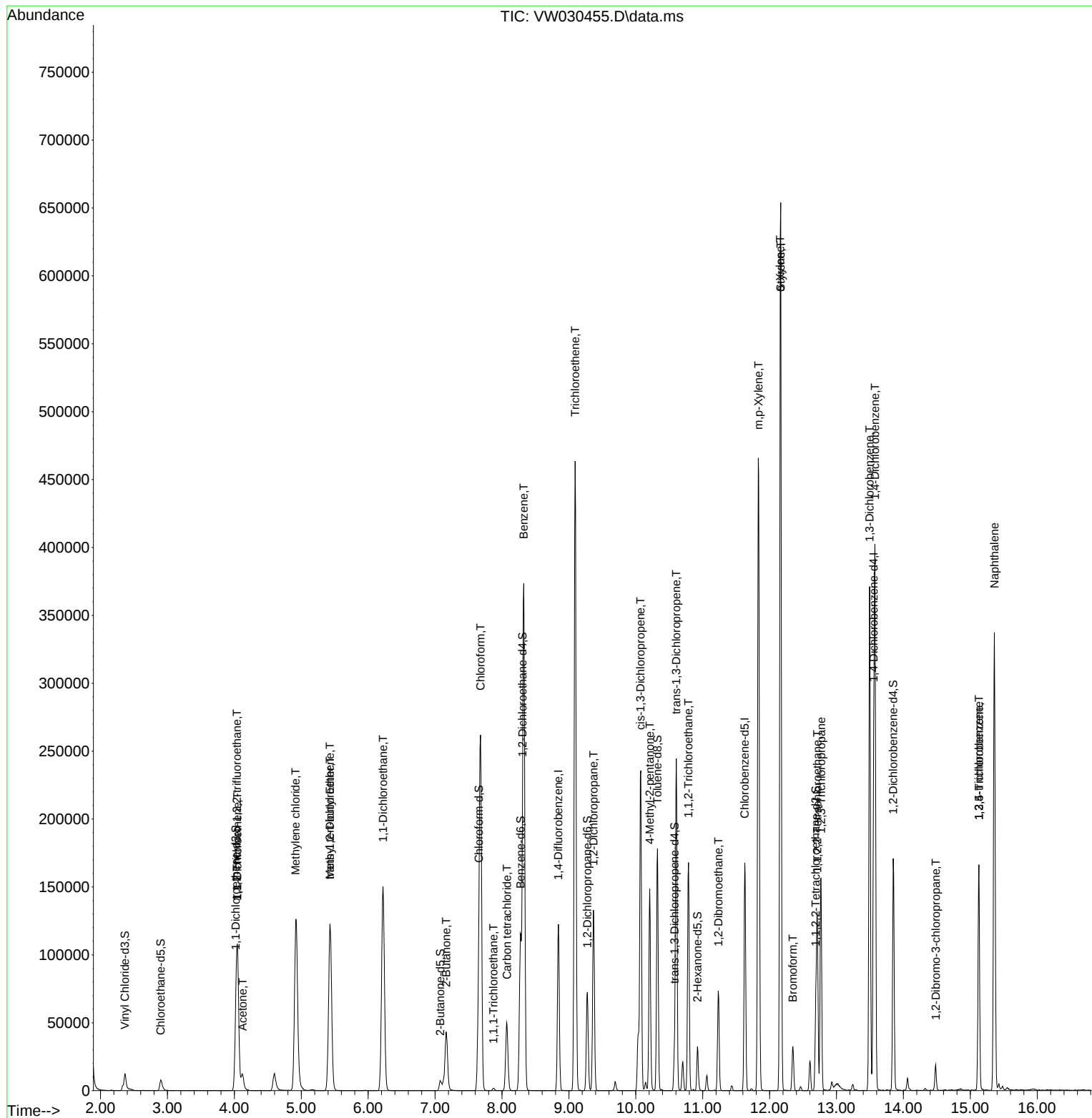
53) m,p-Xylene	11.837	106	152381	54.894	ug/L	93
54) o-Xylene	12.160	106	189392	71.683	ug/L	91
55) Styrene	12.166	104	9542	2.117	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.714	83	58516	43.827	ug/L #	99
59) Bromoform	12.349	173	16156	19.155	ug/L	96
61) 1,2,3-Trichloropropane	12.769	75	66547	60.126	ug/L	93
64) 1,3-Dichlorobenzene	13.495	146	162934	44.120	ug/L	92
65) 1,4-Dichlorobenzene	13.574	146	155245	41.151	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.482	75	4408	17.382	ug/L #	66
69) 1,3,5-Trichlorobenzene	15.129	180	56224	22.058	ug/L	99
70) 1,2,4-trichlorobenzene	15.129	180	56224	26.642	ug/L	97
71) Naphthalene	15.360	128	301245	78.042	ug/L	98

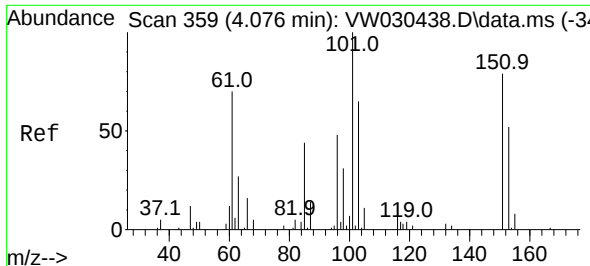
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.350 ug/L

RT: 4.039 min Scan# 359

Delta R.T. -0.037 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

ClientSampleId :

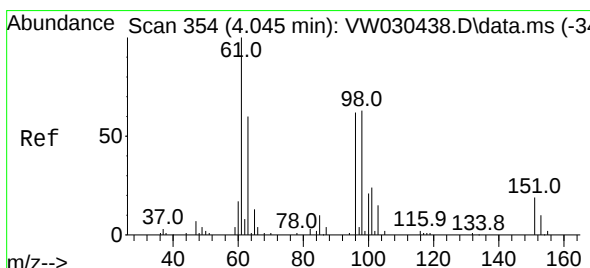
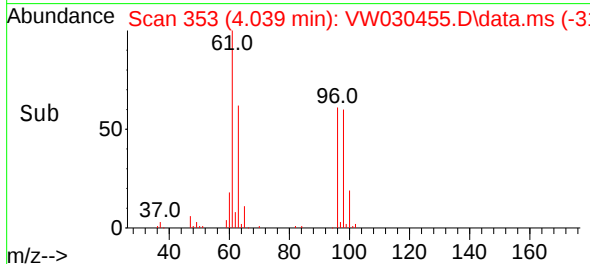
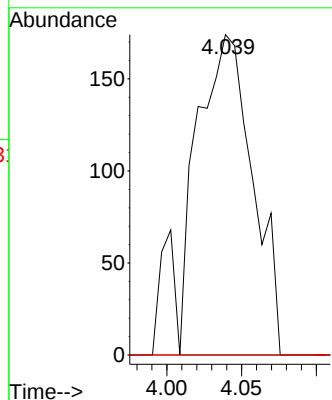
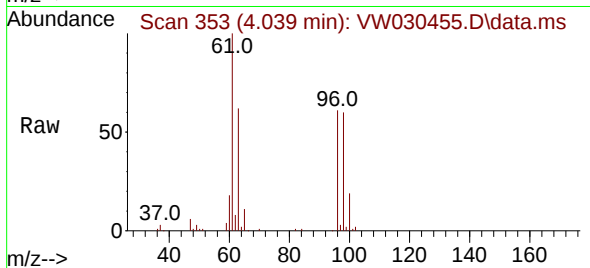
Tgt Ion:101 Resp: 447

Ion Ratio Lower Upper

101 100

85 0.0 30.5 45.7#

151 0.0 52.9 79.3#



#12

1,1-Dichloroethene

Concen: 43.745 ug/L

RT: 4.045 min Scan# 354

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

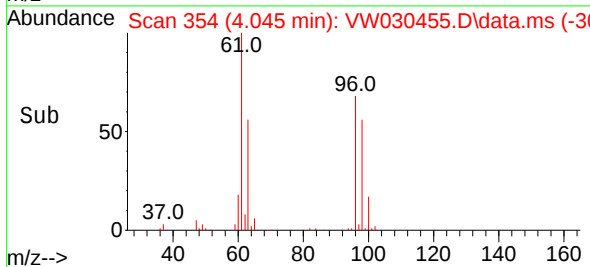
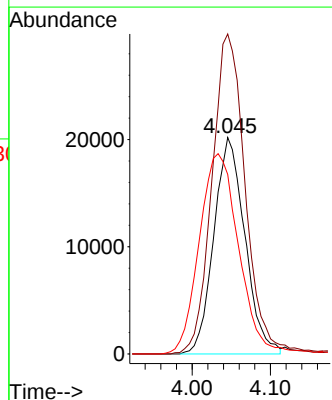
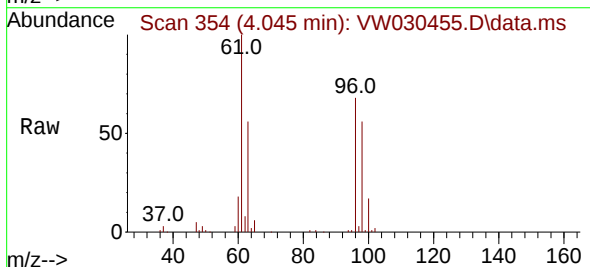
Tgt Ion: 96 Resp: 55529

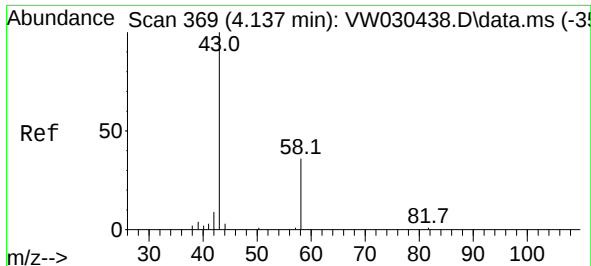
Ion Ratio Lower Upper

96 100

61 147.9 120.1 223.1

63 82.9 94.8 176.2#

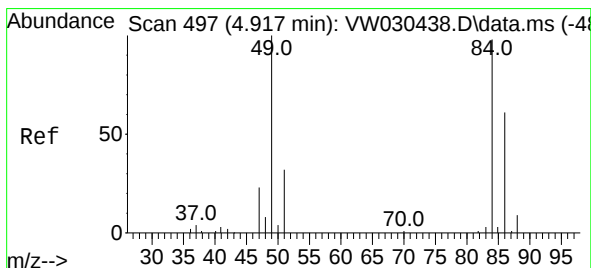
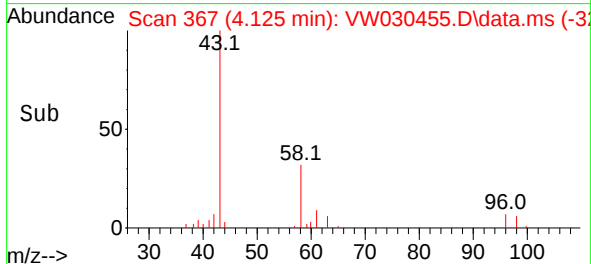
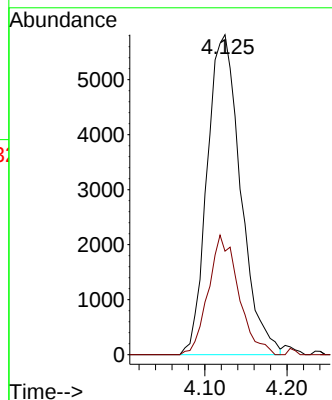
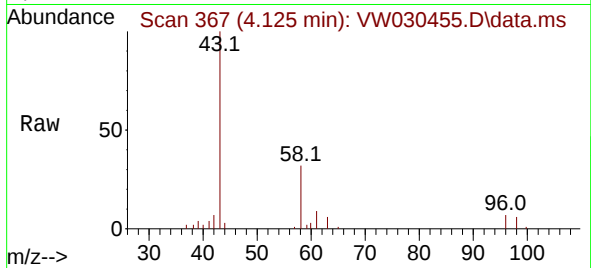




#13
Acetone
Concen: 45.266 ug/L
RT: 4.125 min Scan# 367
Delta R.T. -0.012 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

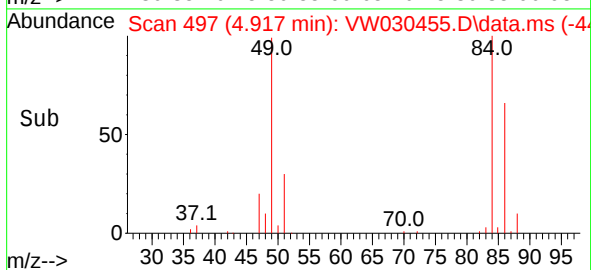
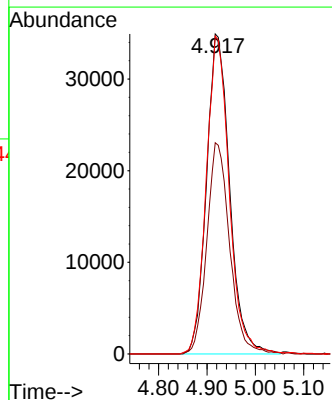
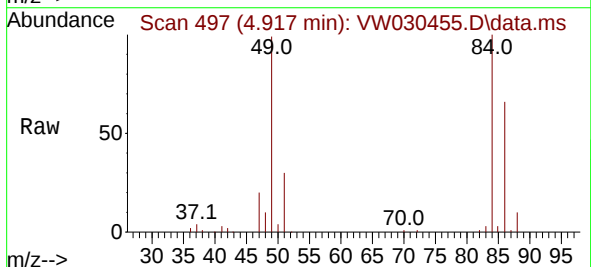
Instrument :
MSVOA_W
ClientSampleId :

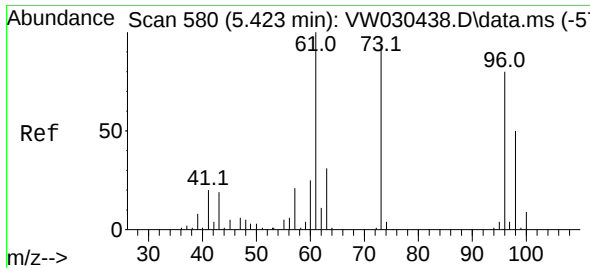
Tgt Ion: 43 Resp: 16487
Ion Ratio Lower Upper
43 100
58 33.7 0.0 64.0



#16
Methylene chloride
Concen: 68.971 ug/L
RT: 4.917 min Scan# 497
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

Tgt Ion: 84 Resp: 115986
Ion Ratio Lower Upper
84 100
86 66.0 44.8 83.2
49 99.4 83.6 155.2

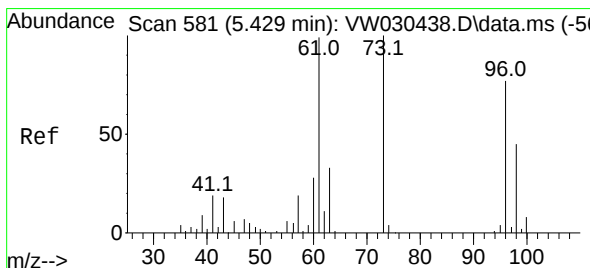
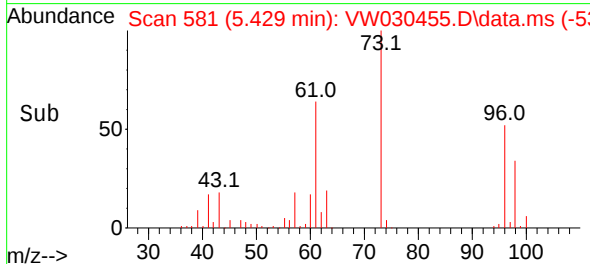
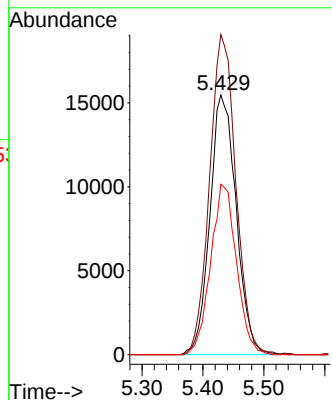
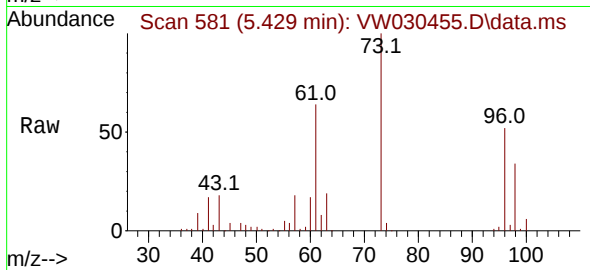




#17
trans-1,2-Dichloroethene
Concen: 31.528 ug/L
RT: 5.429 min Scan# 580
Delta R.T. 0.006 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

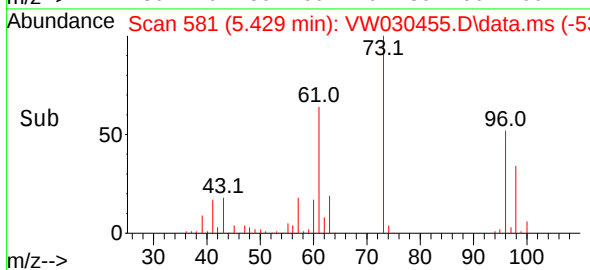
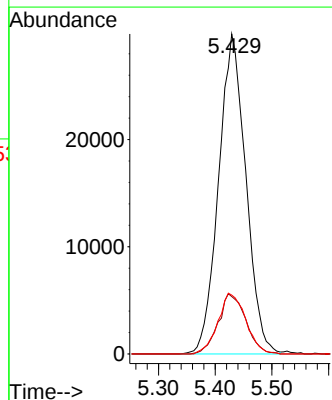
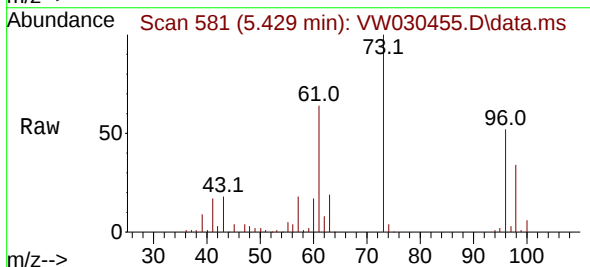
Instrument :
MSVOA_W
ClientSampleId :

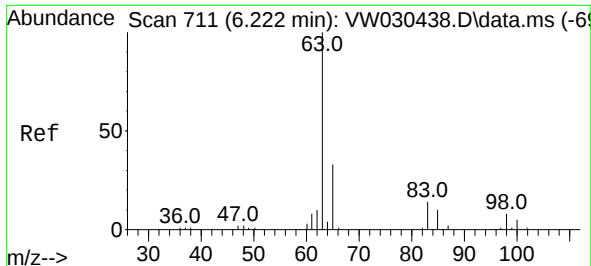
Tgt Ion: 96 Resp: 46459
Ion Ratio Lower Upper
96 100
61 123.3 100.3 186.3
98 65.6 46.3 86.1



#18
Methyl tert-butyl Ether
Concen: 42.530 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

Tgt Ion: 73 Resp: 99679
Ion Ratio Lower Upper
73 100
43 19.0 15.9 23.9
57 19.3 17.6 26.4

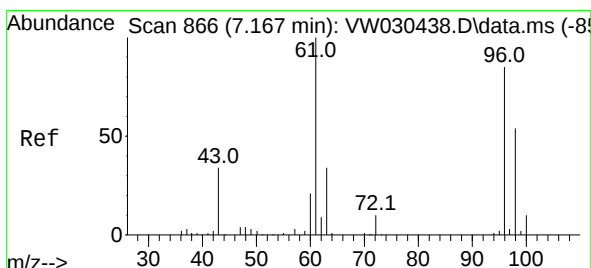
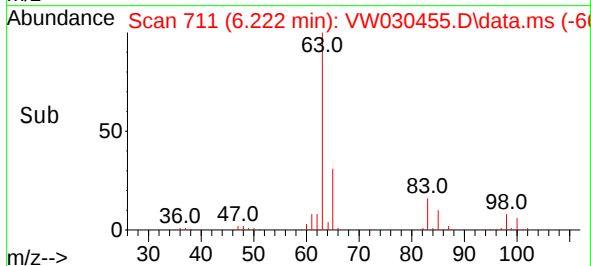
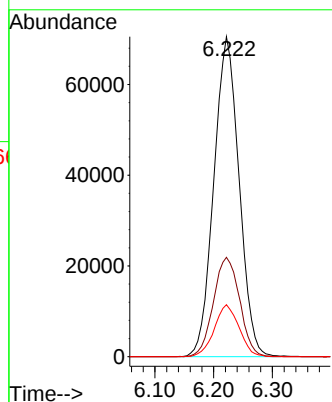
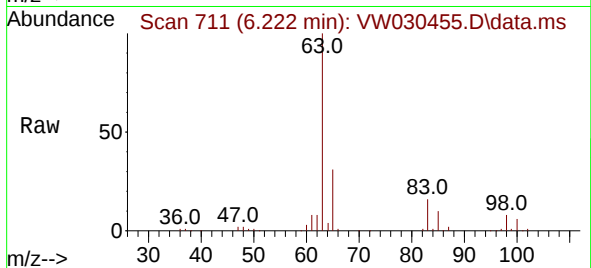




#19
1,1-Dichloroethane
Concen: 75.008 ug/L
RT: 6.222 min Scan# 711
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

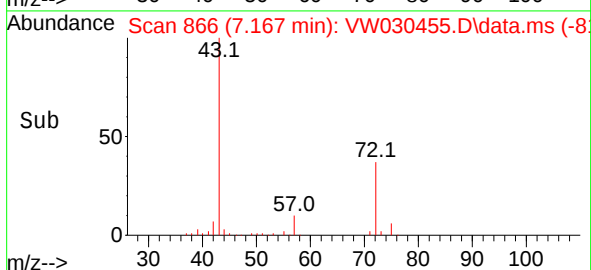
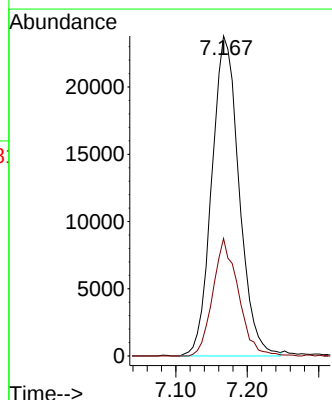
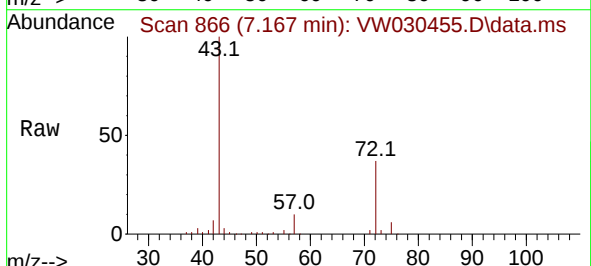
Instrument :
MSVOA_W
ClientSampleId :

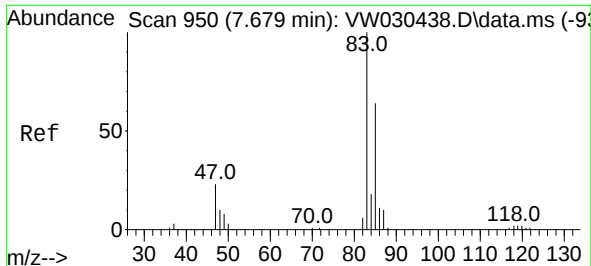
Tgt Ion: 63 Resp: 210491
Ion Ratio Lower Upper
63 100
65 31.1 20.7 38.5
83 16.3 9.9 18.3



#22
2-Butanone
Concen: 135.556 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

Tgt Ion: 43 Resp: 63116
Ion Ratio Lower Upper
43 100
72 34.1 14.1 42.3





#25

Chloroform

Concen: 85.603 ug/L

RT: 7.679 min Scan# 950

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

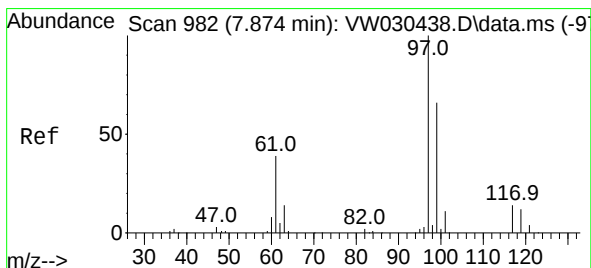
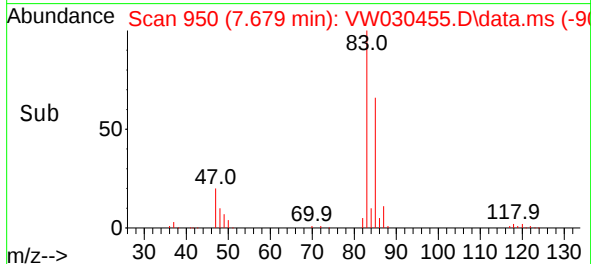
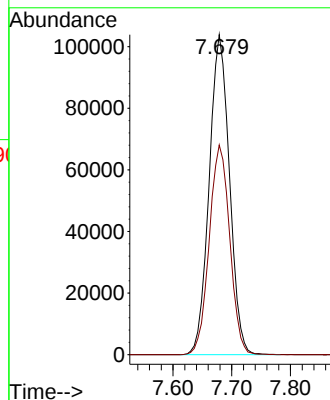
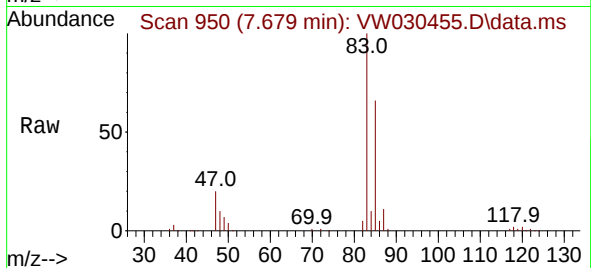
ClientSampleId :

Tgt Ion: 83 Resp: 249133

Ion Ratio Lower Upper

83 100

85 65.6 45.8 85.0



#30

1,1,1-Trichloroethane

Concen: 0.802 ug/L

RT: 7.874 min Scan# 982

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

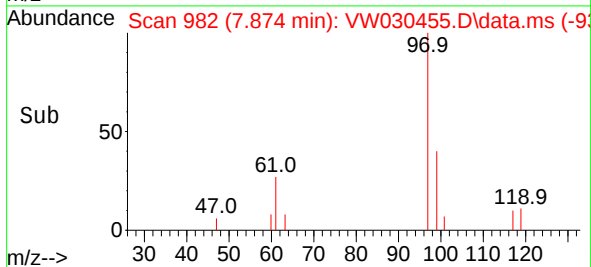
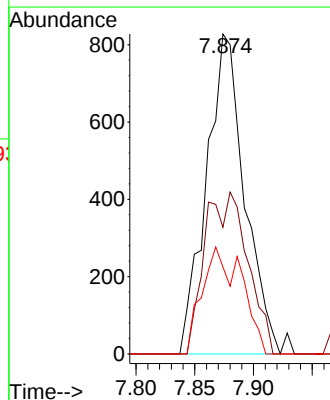
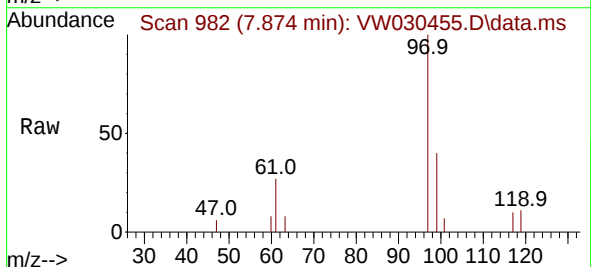
Tgt Ion: 97 Resp: 1871

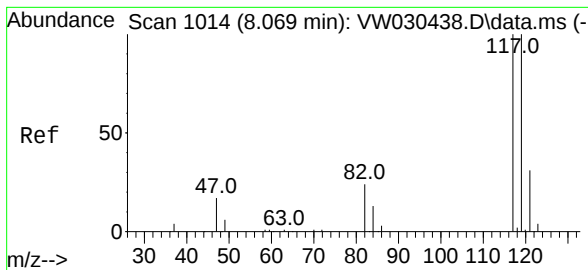
Ion Ratio Lower Upper

97 100

99 29.3 50.9 76.3#

61 11.8 34.1 51.1#

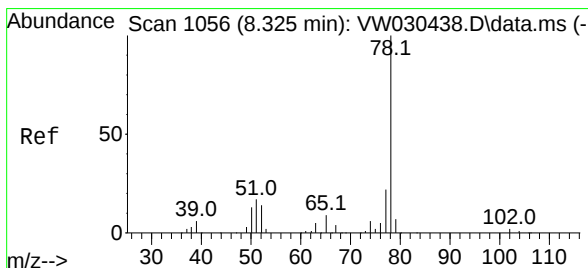
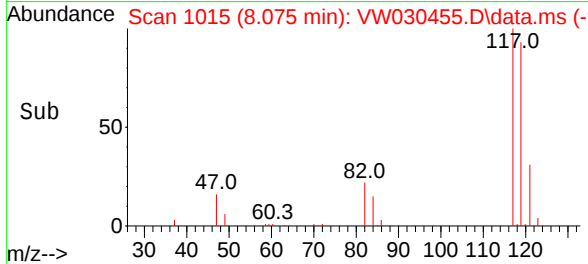
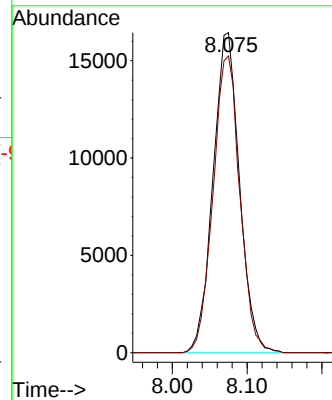
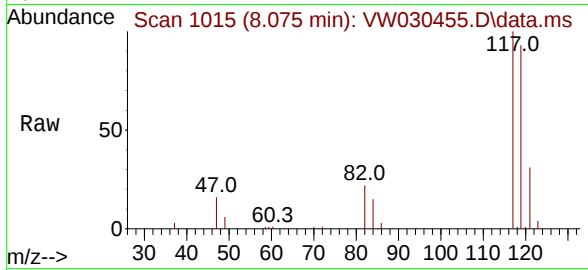




#31
Carbon tetrachloride
Concen: 19.391 ug/L
RT: 8.075 min Scan# 1014
Delta R.T. 0.006 min
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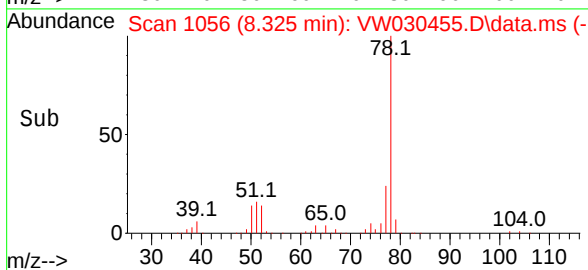
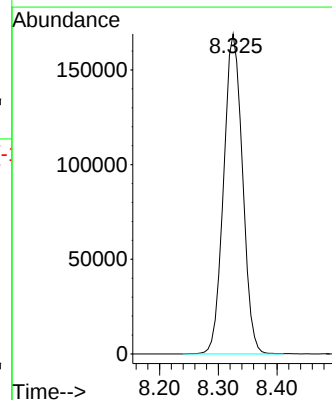
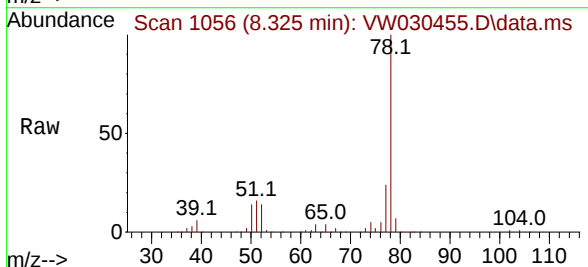
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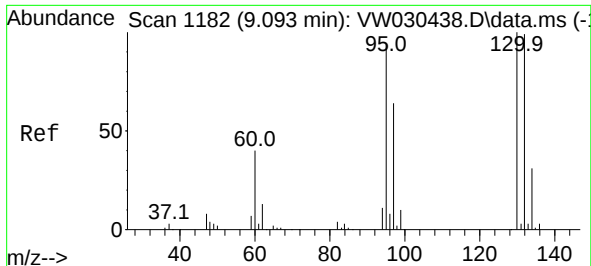
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Ion Ratio Lower Upper
117 100
119 94.0 75.5 113.3



#33
Benzene
Concen: 61.604 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

Tgt Ion: 78 Resp: 377719





#34

Trichloroethene

Concen: 99.860 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. -0.000 min

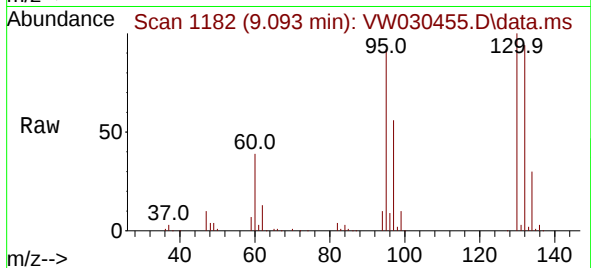
Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 162864

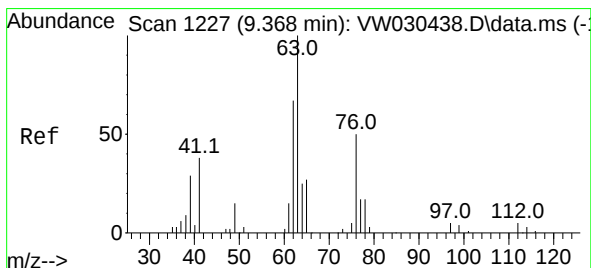
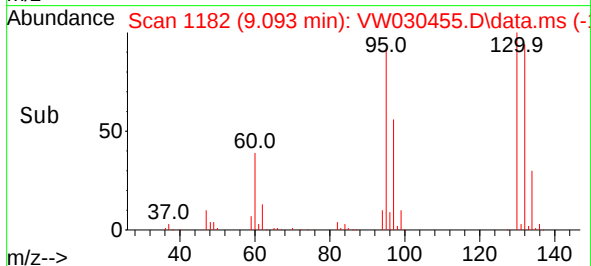
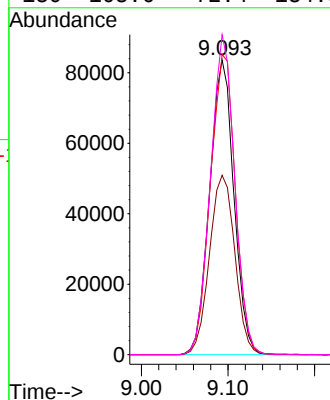
Ion Ratio Lower Upper

95 100

97 60.9 47.5 88.1

132 101.9 66.7 123.9

130 108.6 72.4 134.5



#37

1,2-Dichloropropane

Concen: 30.333 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW030455.D

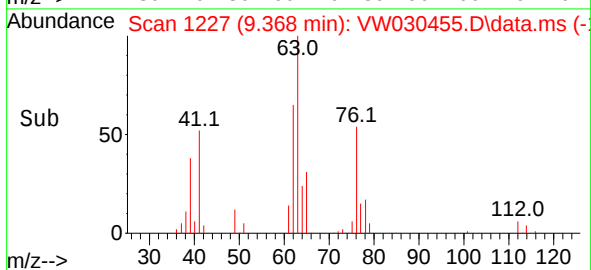
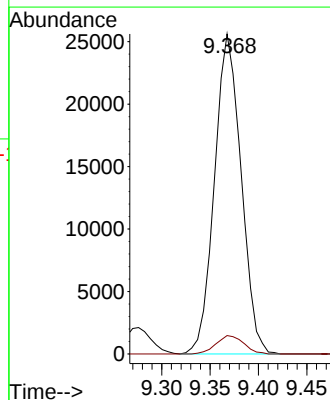
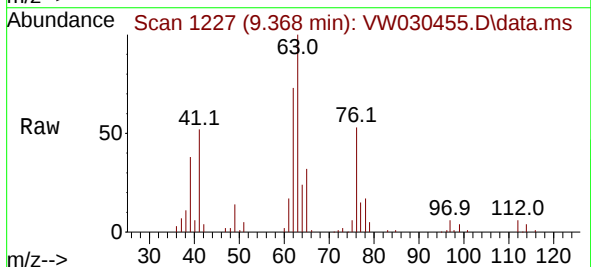
Acq: 08 Oct 2024 18:11

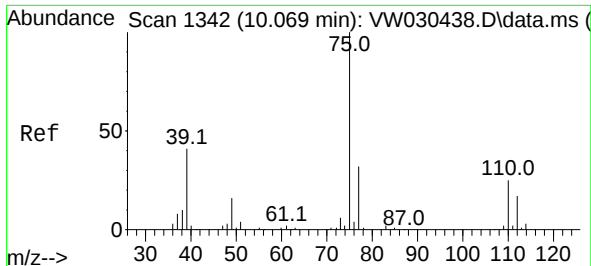
Tgt Ion: 63 Resp: 49070

Ion Ratio Lower Upper

63 100

112 5.9 3.4 5.2#





#39

cis-1,3-Dichloropropene

Concen: 58.409 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

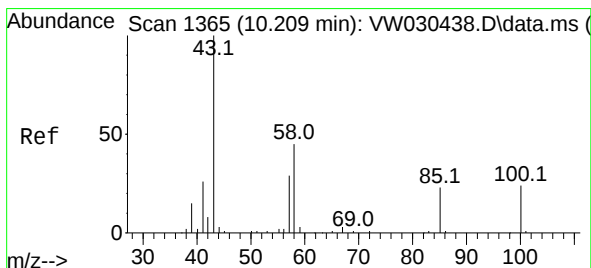
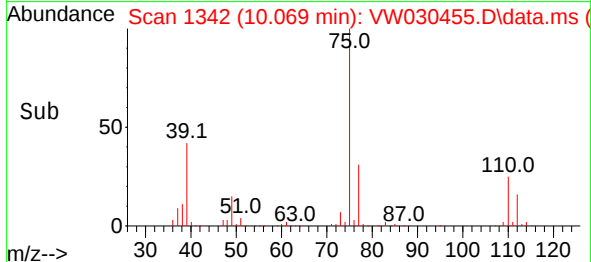
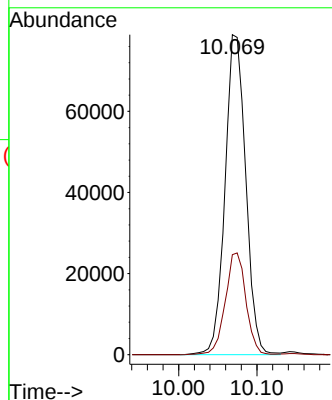
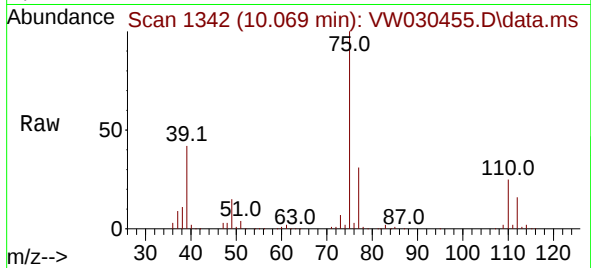
ClientSampleId :

Tgt Ion: 75 Resp: 144885

Ion Ratio Lower Upper

75 100

77 31.3 22.0 40.8



#40

4-Methyl-2-pentanone

Concen: 102.793 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

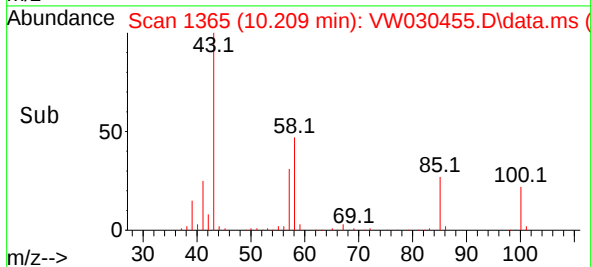
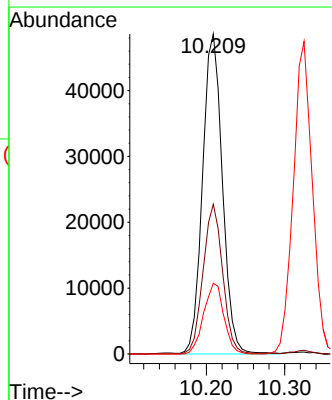
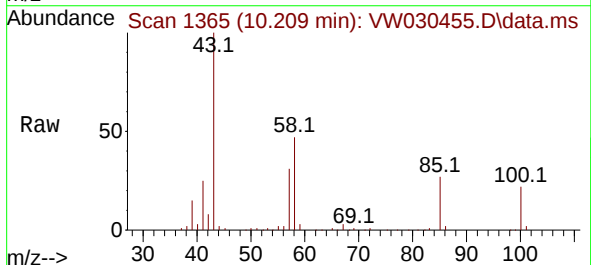
Tgt Ion: 43 Resp: 85532

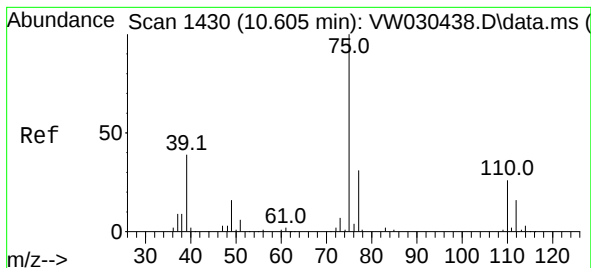
Ion Ratio Lower Upper

43 100

58 46.1 32.6 48.8

100 22.4 12.5 18.7#





#44

trans-1,3-Dichloropropene

Concen: 67.344 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

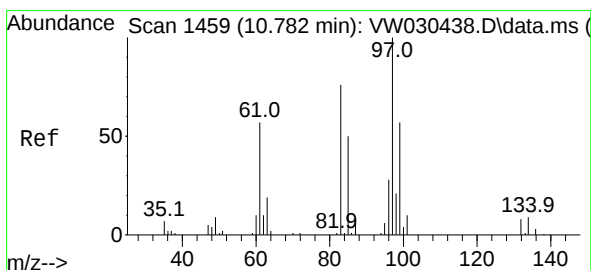
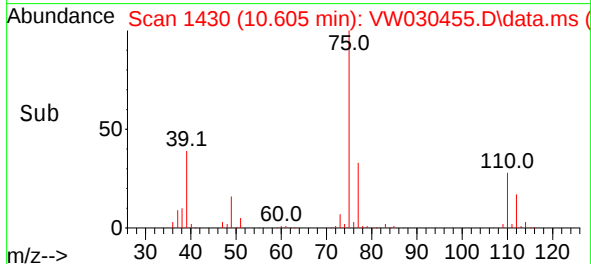
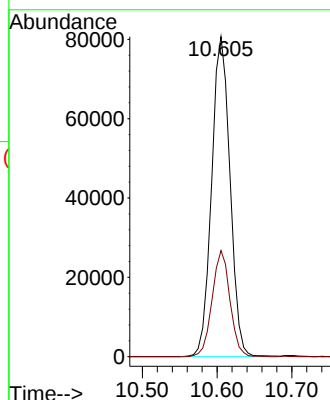
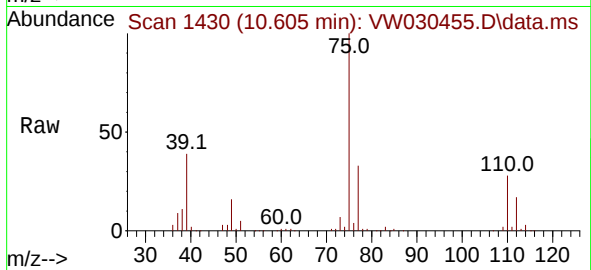
ClientSampleId :

Tgt Ion: 75 Resp: 138417

Ion Ratio Lower Upper

75 100

77 33.2 20.8 38.6



#45

1,1,2-Trichloroethane

Concen: 47.217 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. 0.006 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Tgt Ion: 97 Resp: 53829

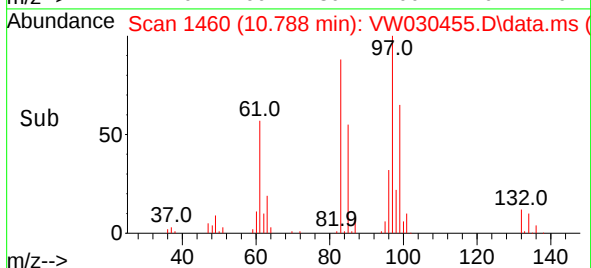
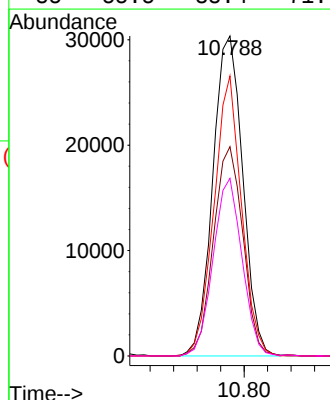
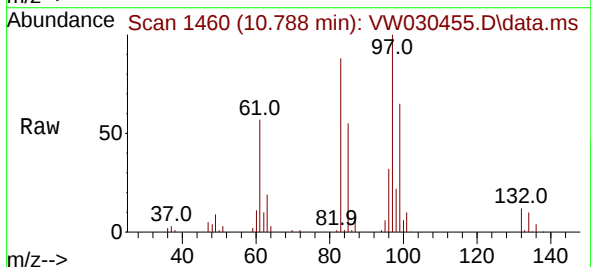
Ion Ratio Lower Upper

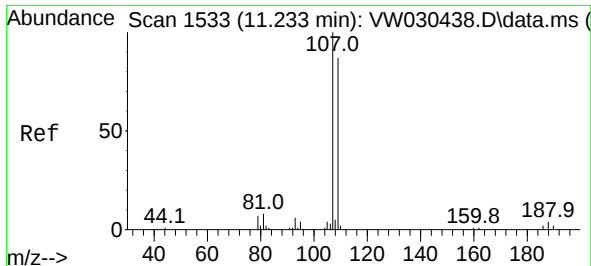
97 100

99 65.4 40.8 75.8

83 87.5 59.1 109.7

85 55.5 38.4 71.4





#50

1,2-Dibromoethane

Concen: 46.555 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

ClientSampleId :

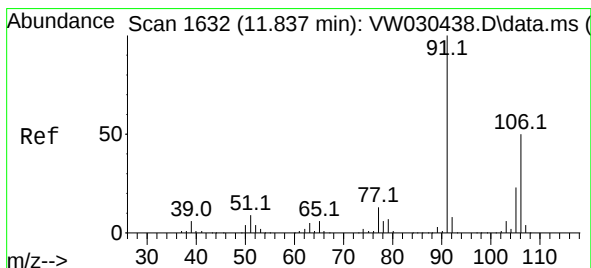
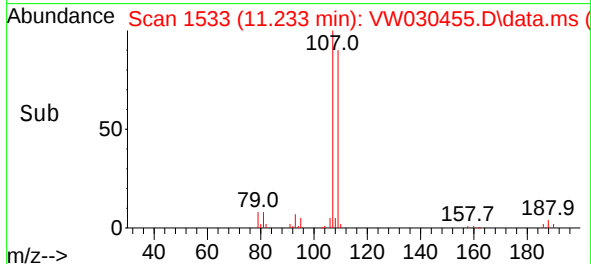
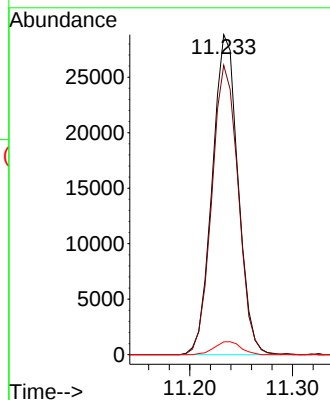
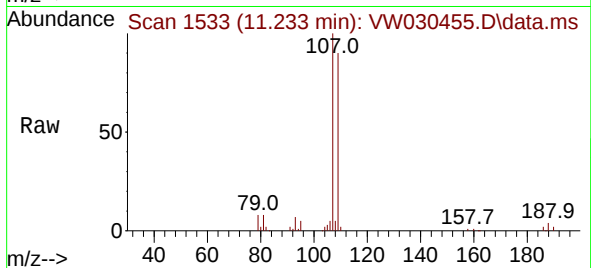
Tgt Ion:107 Resp: 50219

Ion Ratio Lower Upper

107 100

109 90.5 67.8 125.8

188 4.0 2.9 4.3



#53

m,p-Xylene

Concen: 54.894 ug/L

RT: 11.837 min Scan# 1632

Delta R.T. -0.000 min

Lab File: VW030455.D

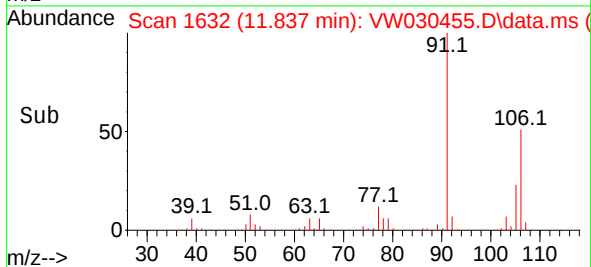
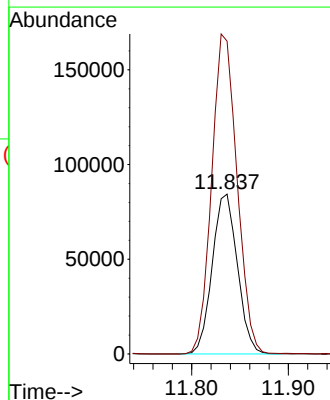
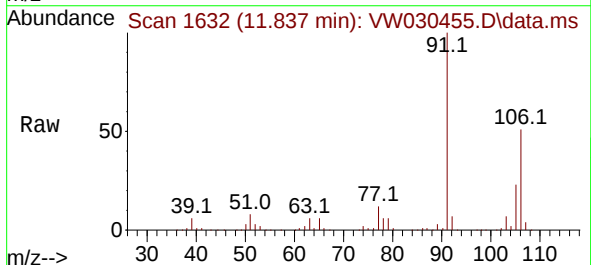
Acq: 08 Oct 2024 18:11

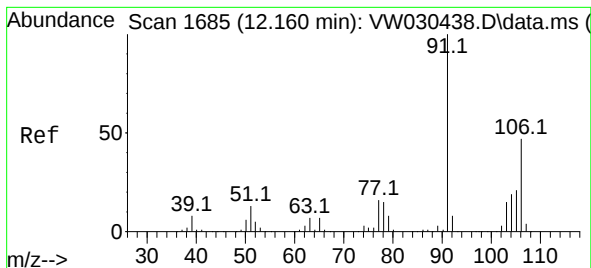
Tgt Ion:106 Resp: 152381

Ion Ratio Lower Upper

106 100

91 195.7 144.4 268.2





#54

o-Xylene

Concen: 71.683 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

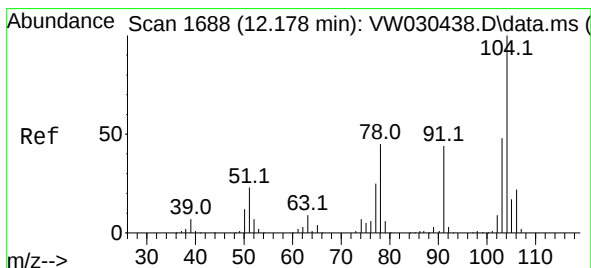
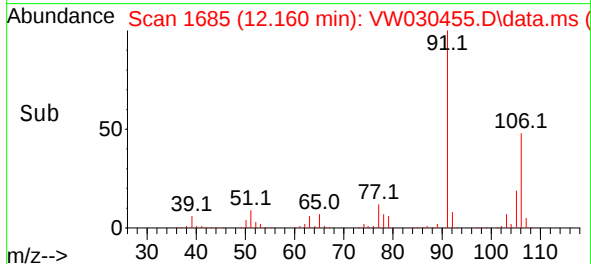
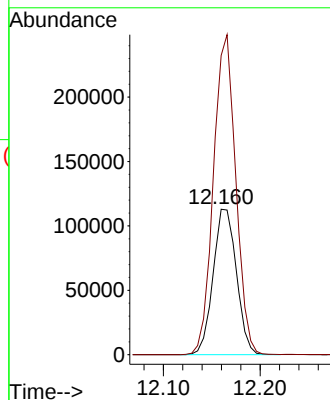
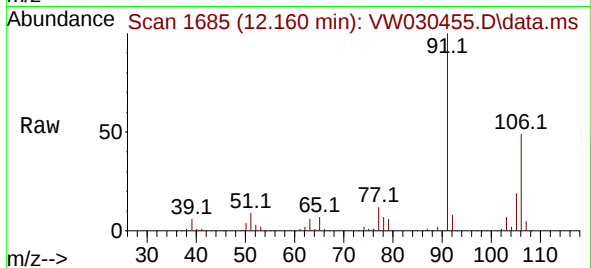
ClientSampleId :

Tgt Ion:106 Resp: 189392

Ion Ratio Lower Upper

106 100

91 205.7 153.6 285.2



#55

Styrene

Concen: 2.117 ug/L

RT: 12.166 min Scan# 1686

Delta R.T. -0.012 min

Lab File: VW030455.D

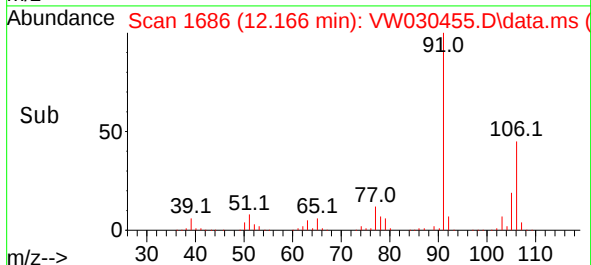
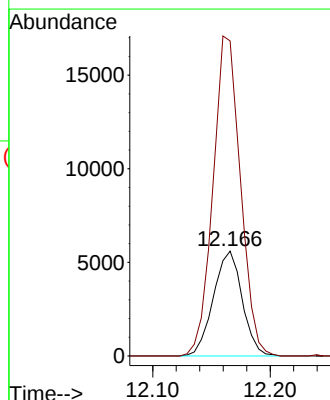
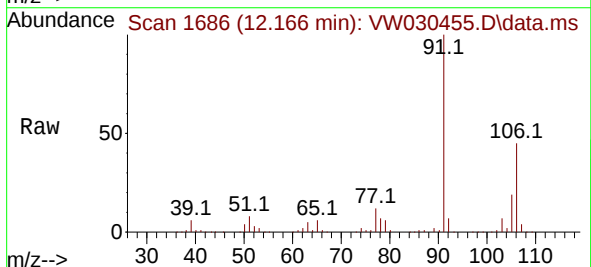
Acq: 08 Oct 2024 18:11

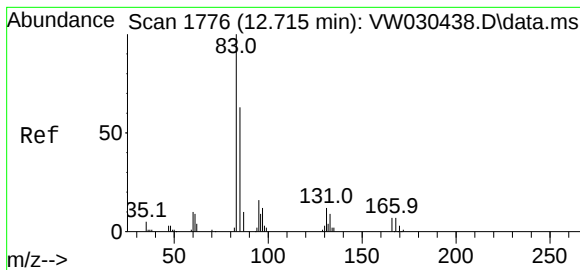
Tgt Ion:104 Resp: 9542

Ion Ratio Lower Upper

104 100

78 300.4 34.6 64.3#

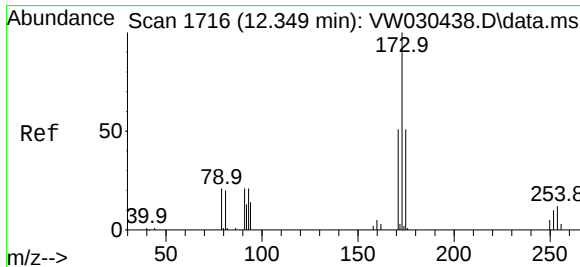
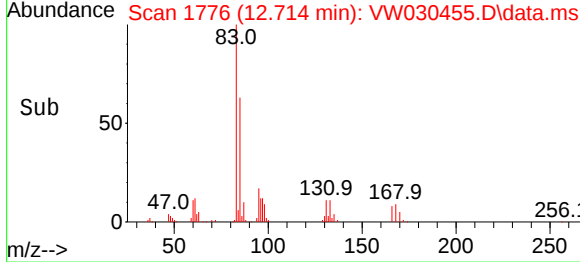
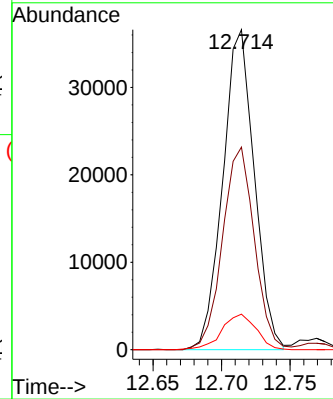
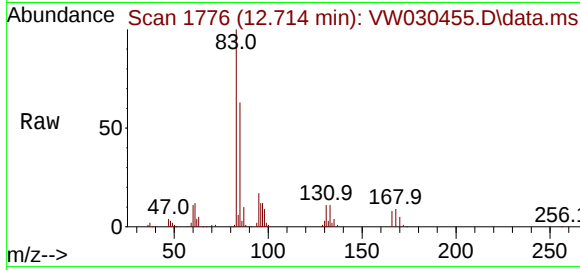




#57
1,1,2,2-Tetrachloroethane
Concen: 43.827 ug/L
RT: 12.714 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

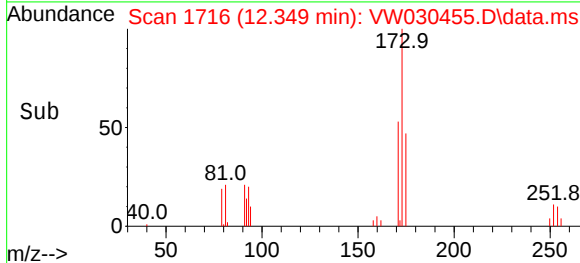
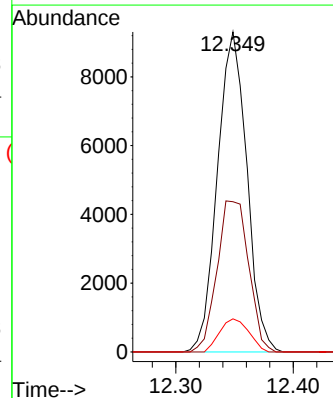
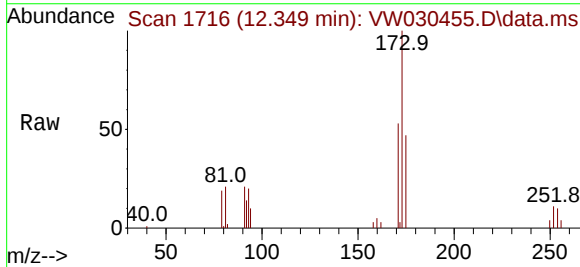
Instrument :
MSVOA_W
ClientSampleId :

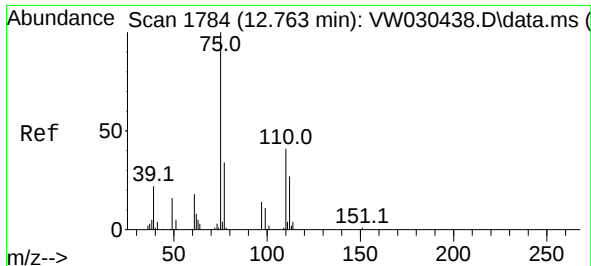
Tgt Ion: 83 Resp: 58516
Ion Ratio Lower Upper
83 100
85 63.3 43.9 81.5
131 11.1 7.1 10.7#



#59
Bromoform
Concen: 19.155 ug/L
RT: 12.349 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

Tgt Ion: 173 Resp: 16156
Ion Ratio Lower Upper
173 100
175 50.9 38.7 58.1
254 10.3 7.4 11.2





#61

1,2,3-Trichloropropane

Concen: 60.126 ug/L

RT: 12.769 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

ClientSampleId :

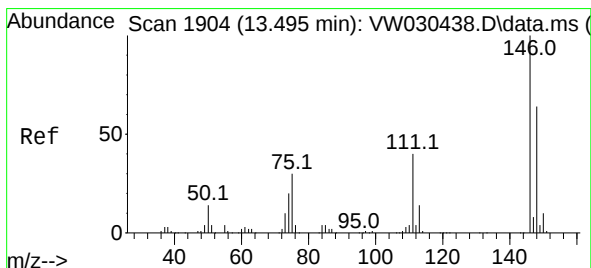
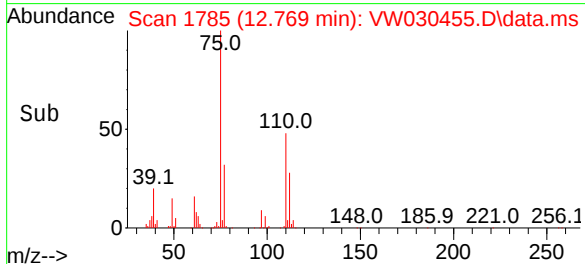
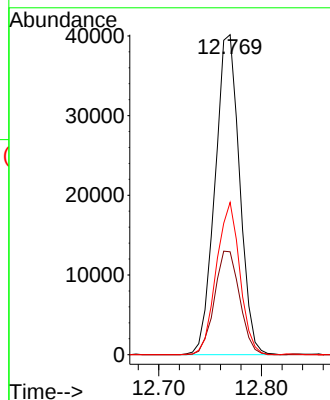
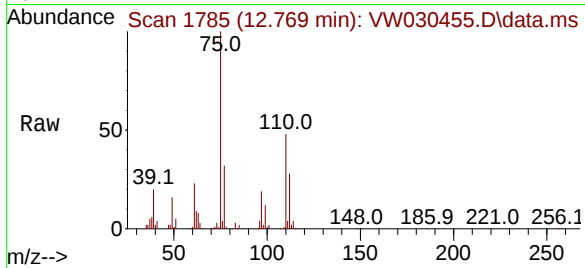
Tgt Ion: 75 Resp: 66547

Ion Ratio Lower Upper

75 100

77 33.2 25.4 38.2

110 45.4 30.8 46.2



#64

1,3-Dichlorobenzene

Concen: 44.120 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

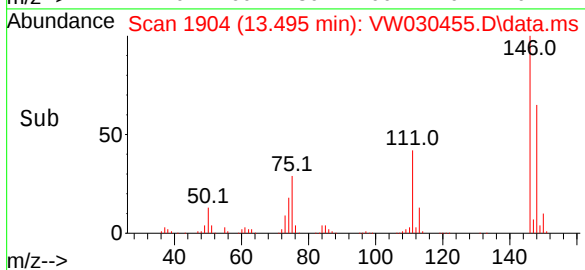
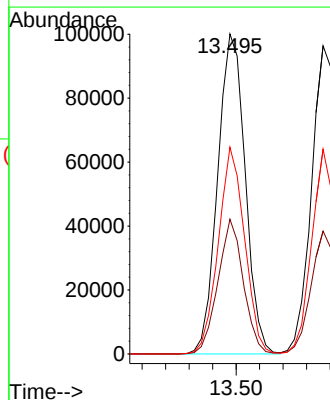
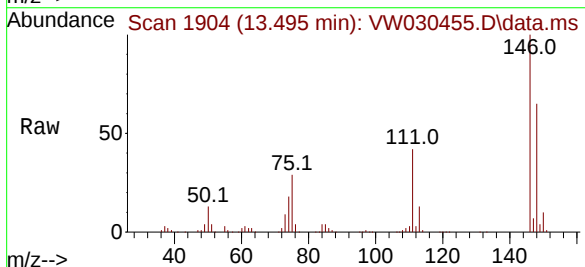
Tgt Ion:146 Resp: 162934

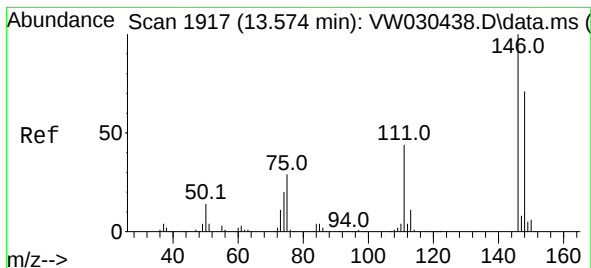
Ion Ratio Lower Upper

146 100

111 42.1 33.2 61.6

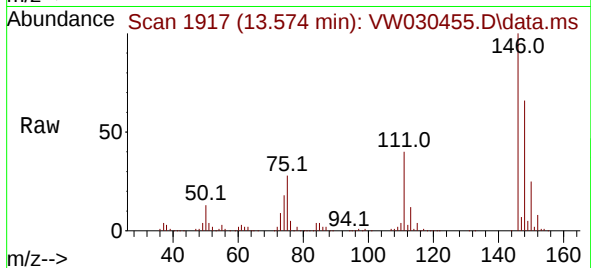
148 64.6 50.4 93.6



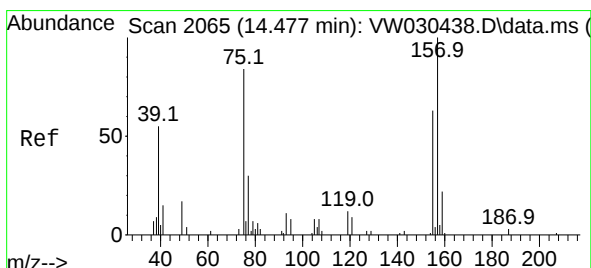
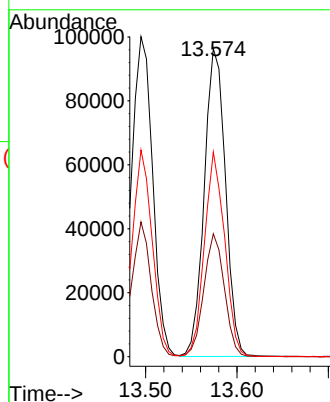
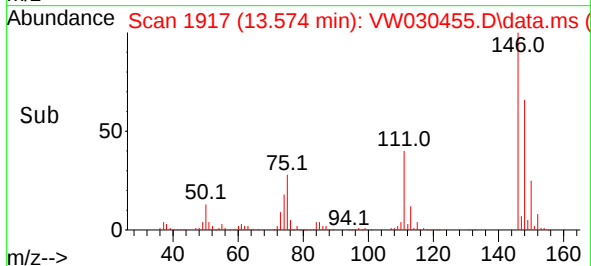


#65
1,4-Dichlorobenzene
Concen: 41.151 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

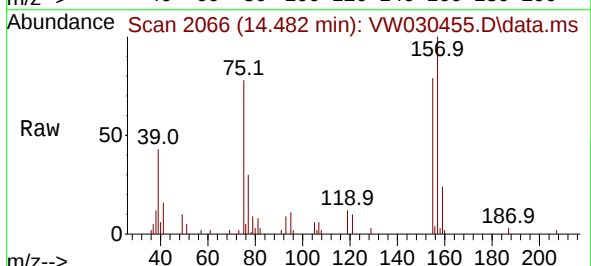
Instrument :
MSVOA_W
ClientSampleId :



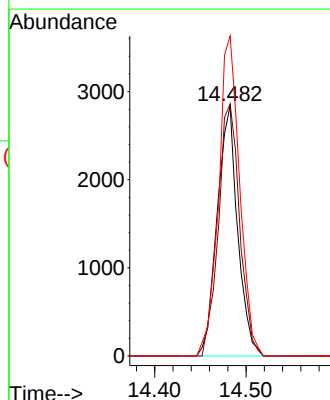
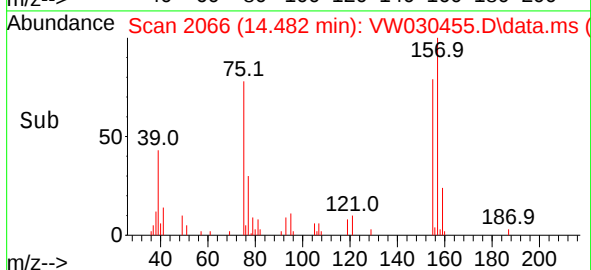
Tgt Ion:146 Resp: 155245
Ion Ratio Lower Upper
146 100
111 39.9 29.1 54.1
148 66.5 42.1 78.1

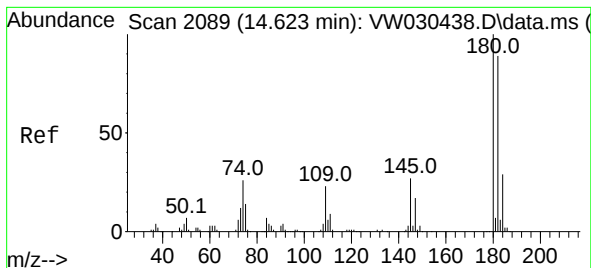


#68
1,2-Dibromo-3-chloropropane
Concen: 17.382 ug/L
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11



Tgt Ion: 75 Resp: 4408
Ion Ratio Lower Upper
75 100
155 100.8 60.1 90.1#
157 128.0 74.3 111.5#





#69

1,3,5-Trichlorobenzene

Concen: 22.058 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.506 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180 Resp: 56224

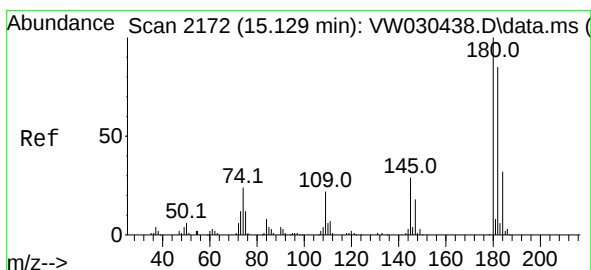
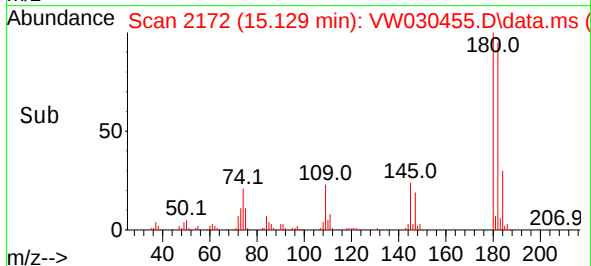
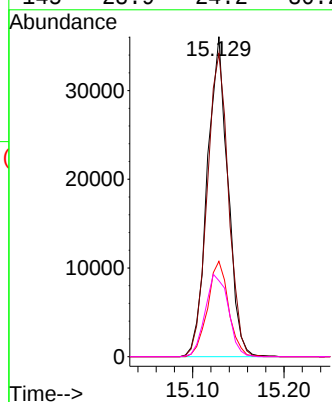
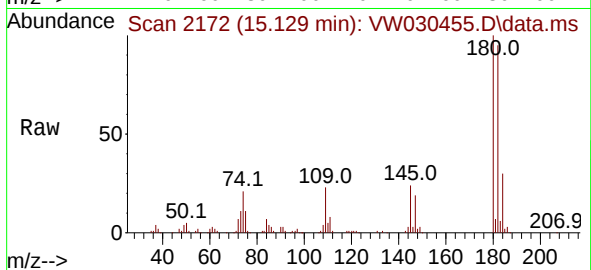
Ion Ratio Lower Upper

180 100

182 98.4 77.4 116.2

184 30.5 24.5 36.7

145 28.9 24.2 36.2



#70

1,2,4-trichlorobenzene

Concen: 26.642 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. -0.000 min

Lab File: VW030455.D

Acq: 08 Oct 2024 18:11

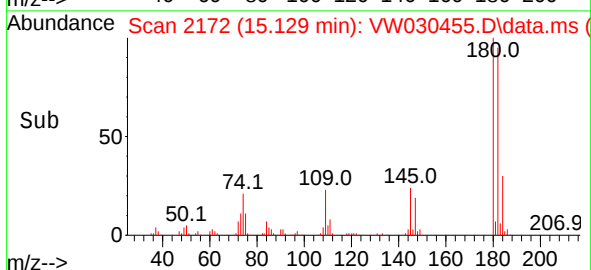
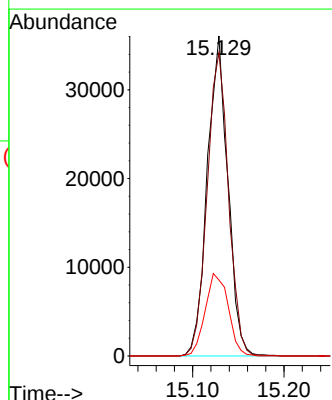
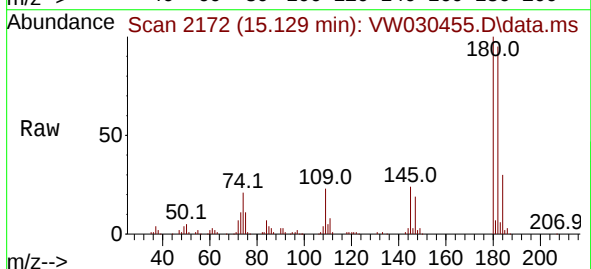
Tgt Ion:180 Resp: 56224

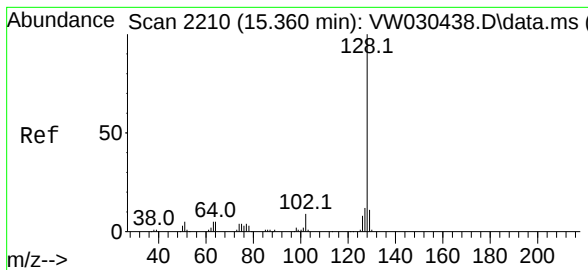
Ion Ratio Lower Upper

180 100

182 98.4 77.2 115.8

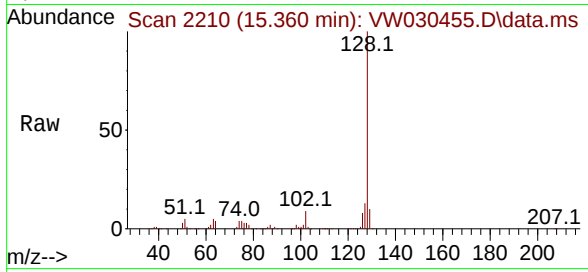
145 28.9 25.3 37.9





#71
Naphthalene
Concen: 78.042 ug/L
RT: 15.360 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW030455.D
Acq: 08 Oct 2024 18:11

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:	128	Resp:	301245
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.8	16.2
129	10.4	8.8	13.2

