

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100824\
 Data File : VW030447.D
 Acq On : 08 Oct 2024 15:00
 Operator : SY/MD
 Sample : P4329-01 2X DL
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 09 01:19:03 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	124985	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	115465	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	63208	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	17484	17.902	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	71.600%
7) Chloroethane-d5	2.899	69	12389	17.434	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.720%
11) 1,1-Dichloroethene-d2	4.021	65	12327	17.291	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	69.160%
21) 2-Butanone-d5	7.081	46	12511	31.854	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	63.700%
24) Chloroform-d	7.648	84	67510	20.106	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	80.440%
26) 1,2-Dichloroethane-d4	8.307	65	33454	19.088	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	76.360%
32) Benzene-d6	8.276	84	120453	18.613	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	74.440%
36) 1,2-Dichloropropane-d6	9.276	67	33551	17.237	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	68.960%#
41) Toluene-d8	10.325	98	118951	20.045	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	80.200%
43) trans-1,3-Dichloroprop...	10.575	79	14717	18.178	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	72.720%
47) 2-Hexanone-d5	10.922	63	12041	37.463	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	74.920%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	29250	20.111	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	80.440%
66) 1,2-Dichlorobenzene-d4	13.849	152	46473	22.145	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.600%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	30141	20.757	ug/L	87
13) Acetone	4.125	43	10086	24.208	ug/L	99
16) Methylene chloride	4.923	84	64032	33.286	ug/L	91
17) trans-1,2-Dichloroethene	5.435	96	24214	14.365	ug/L	85
18) Methyl tert-butyl Ether	5.429	73	49321	18.396	ug/L #	89
19) 1,1-Dichloroethane	6.222	63	113888	35.478	ug/L	94
22) 2-Butanone	7.167	43	36591	68.701	ug/L	89
25) Chloroform	7.679	83	135531	40.710	ug/L	99
27) 1,2-Dichloroethane	8.325	62	1844	0.835	ug/L #	76
30) 1,1,1-Trichloroethane	7.868	97	946	0.354	ug/L #	72
31) Carbon tetrachloride	8.075	117	21699	9.077	ug/L	99
33) Benzene	8.325	78	206520	29.365	ug/L	100
34) Trichloroethene	9.093	95	85057	45.468	ug/L	91
37) 1,2-Dichloropropane	9.368	63	27030	14.567	ug/L #	97
39) cis-1,3-Dichloropropene	10.075	75	76878	27.020	ug/L	100
40) 4-Methyl-2-pentanone	10.209	43	47745	50.026	ug/L #	91
44) trans-1,3-Dichloropropene	10.605	75	73012	30.969	ug/L	93
45) 1,1,2-Trichloroethane	10.788	97	29105	22.258	ug/L	95
50) 1,2-Dibromoethane	11.233	107	27250	22.024	ug/L	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100824\
 Data File : VW030447.D
 Acq On : 08 Oct 2024 15:00
 Operator : SY/MD
 Sample : P4329-01 2X DL
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 09 01:19:03 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)

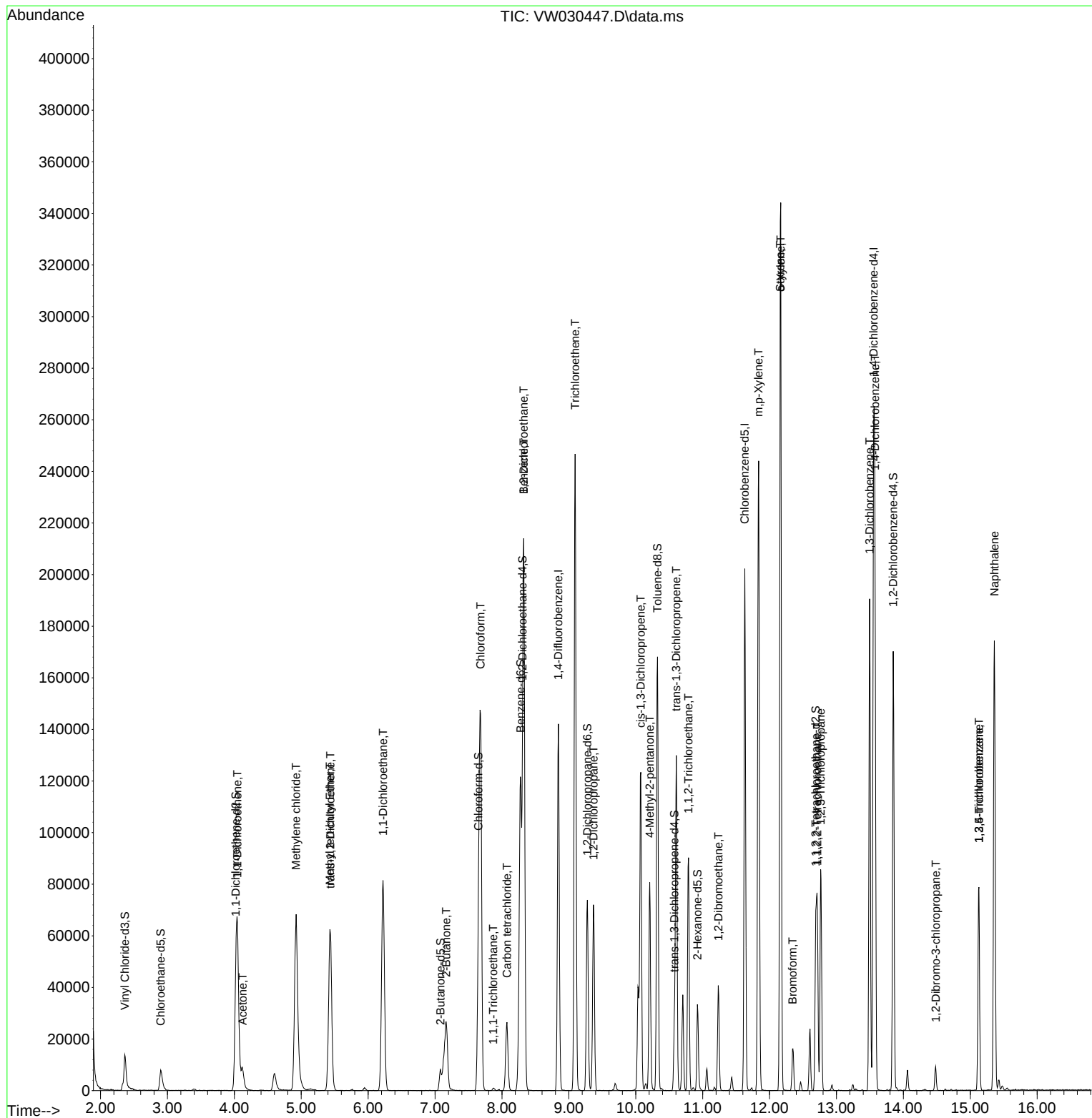
53) m,p-Xylene	11.837	106	78056	24.515	ug/L	95
54) o-Xylene	12.166	106	96487	31.838	ug/L	94
55) Styrene	12.160	104	5213	1.008	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.715	83	32290	21.084	ug/L #	94
59) Bromoform	12.343	173	8380	9.151	ug/L #	96
61) 1,2,3-Trichloropropane	12.763	75	36857	30.673	ug/L	95
64) 1,3-Dichlorobenzene	13.495	146	77502	19.330	ug/L	97
65) 1,4-Dichlorobenzene	13.574	146	77419	18.902	ug/L	92
68) 1,2-Dibromo-3-chloropr...	14.483	75	2609	9.476	ug/L	85
69) 1,3,5-Trichlorobenzene	15.129	180	27772	10.036	ug/L	98
70) 1,2,4-trichlorobenzene	15.129	180	27772	12.122	ug/L	98
71) Naphthalene	15.360	128	160809	38.372	ug/L	98

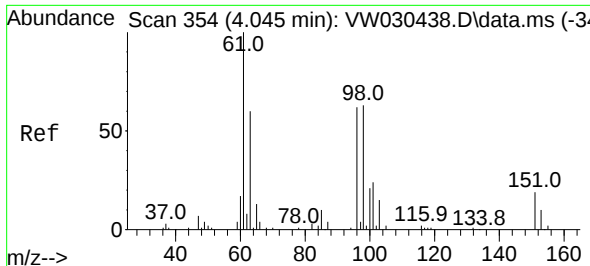
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100824\
Data File : VW030447.D
Acq On : 08 Oct 2024 15:00
Operator : SY/MD
Sample : P4329-01 2X DL
Misc : 5.00g/10mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Oct 09 01:19:03 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





#12

1,1-Dichloroethene

Concen: 20.757 ug/L

RT: 4.045 min Scan# 354

Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Instrument :

MSVOA_W

ClientSampleId :

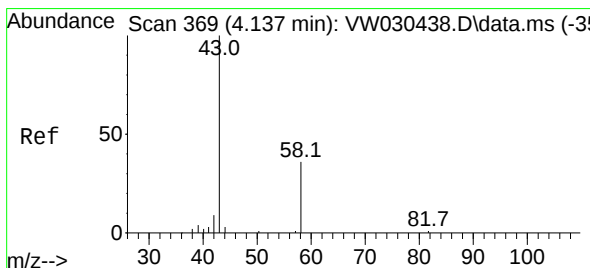
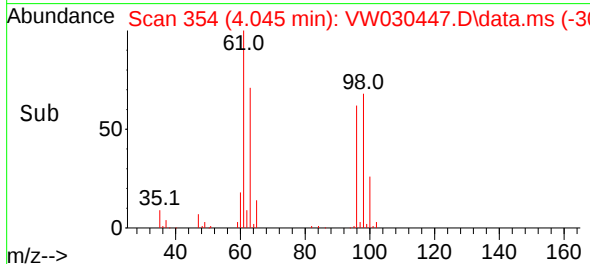
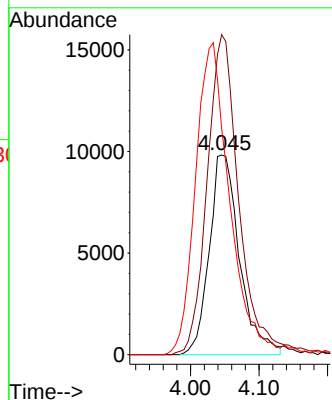
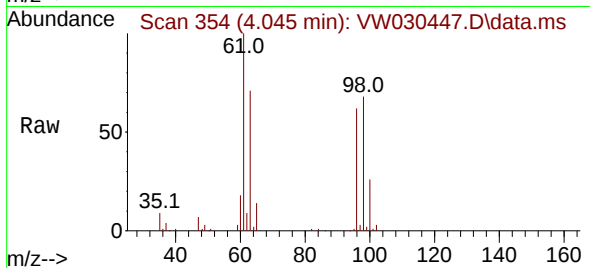
Tgt Ion: 96 Resp: 30141

Ion Ratio Lower Upper

96 100

61 160.3 120.1 223.1

63 113.3 94.8 176.2



#13

Acetone

Concen: 24.208 ug/L

RT: 4.125 min Scan# 367

Delta R.T. -0.012 min

Lab File: VW030447.D

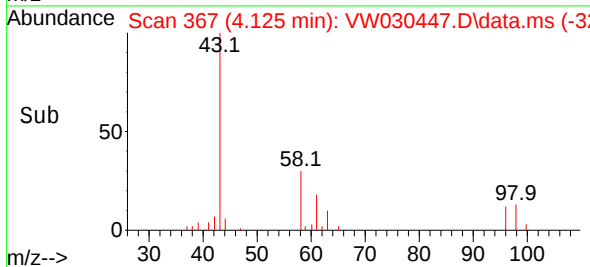
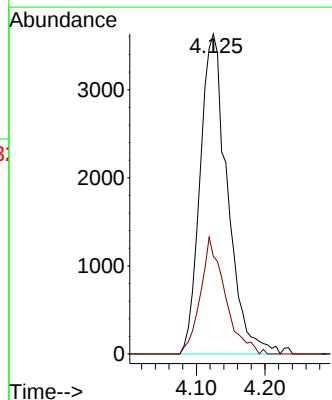
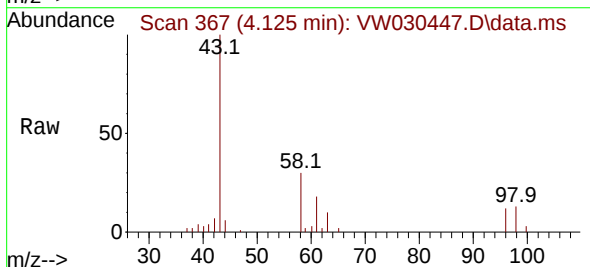
Acq: 08 Oct 2024 15:00

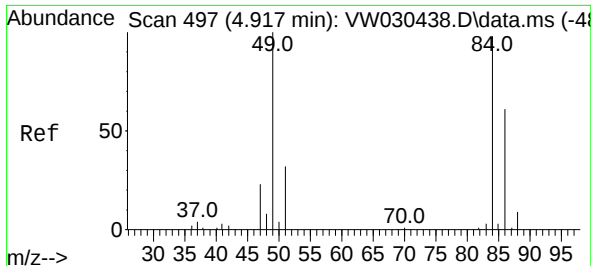
Tgt Ion: 43 Resp: 10086

Ion Ratio Lower Upper

43 100

58 32.8 0.0 64.0

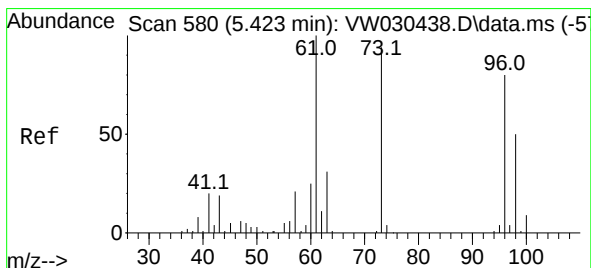
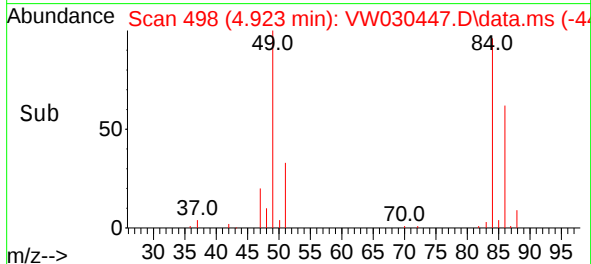
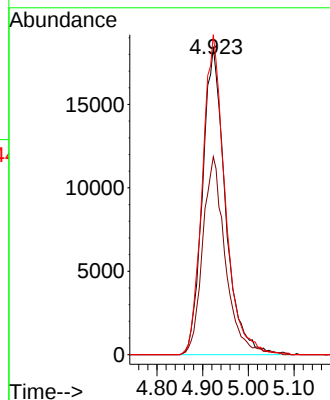
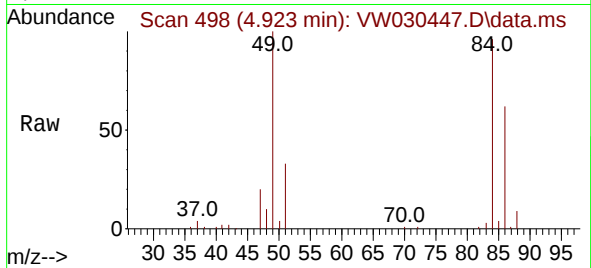




#16
Methylene chloride
Concen: 33.286 ug/L
RT: 4.923 min Scan# 497
Delta R.T. 0.006 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

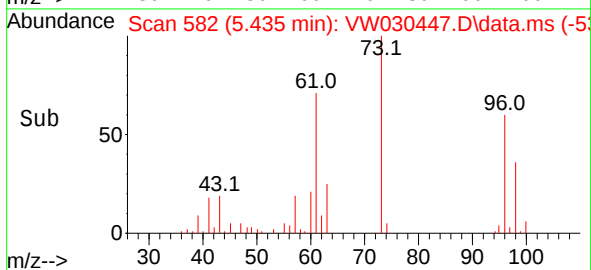
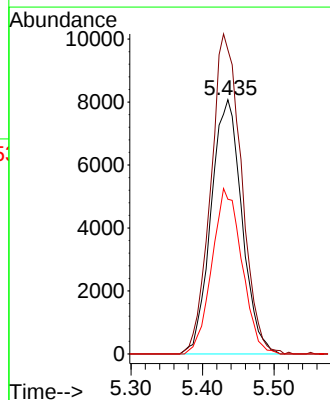
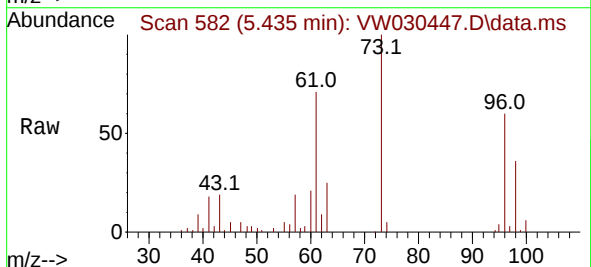
Instrument :
MSVOA_W
ClientSampleId :

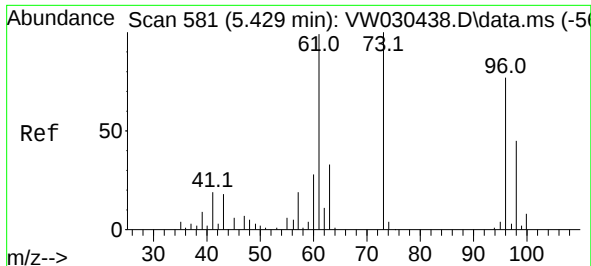
Tgt Ion: 84 Resp: 64032
Ion Ratio Lower Upper
84 100
86 64.3 44.8 83.2
49 103.9 83.6 155.2



#17
trans-1,2-Dichloroethene
Concen: 14.365 ug/L
RT: 5.435 min Scan# 582
Delta R.T. 0.012 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Tgt Ion: 96 Resp: 24214
Ion Ratio Lower Upper
96 100
61 119.7 100.3 186.3
98 60.8 46.3 86.1





#18

Methyl tert-butyl Ether

Concen: 18.396 ug/L

RT: 5.429 min Scan# 581

Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Instrument :

MSVOA_W

ClientSampleId :

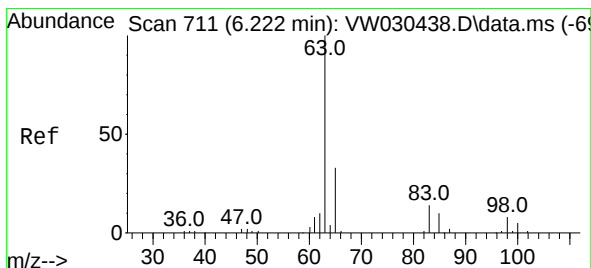
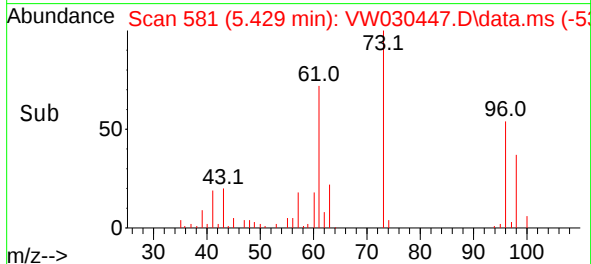
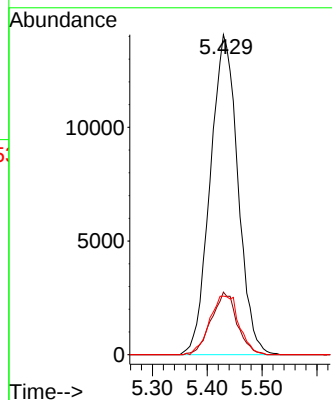
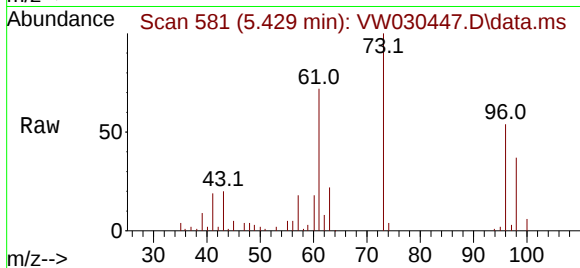
Tgt Ion: 73 Resp: 49321

Ion Ratio Lower Upper

73 100

43 18.3 15.9 23.9

57 13.7 17.6 26.4#



#19

1,1-Dichloroethane

Concen: 35.478 ug/L

RT: 6.222 min Scan# 711

Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

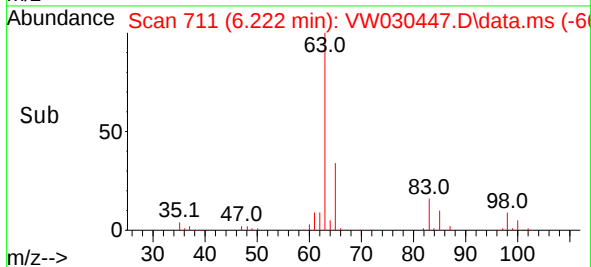
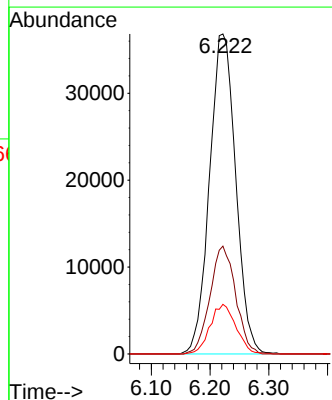
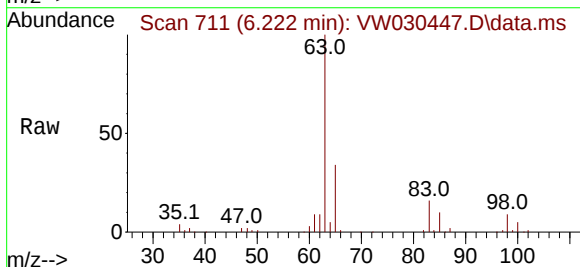
Tgt Ion: 63 Resp: 113888

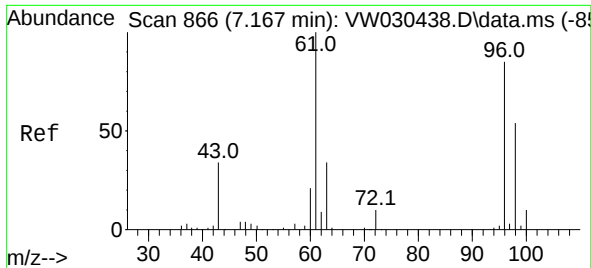
Ion Ratio Lower Upper

63 100

65 33.7 20.7 38.5

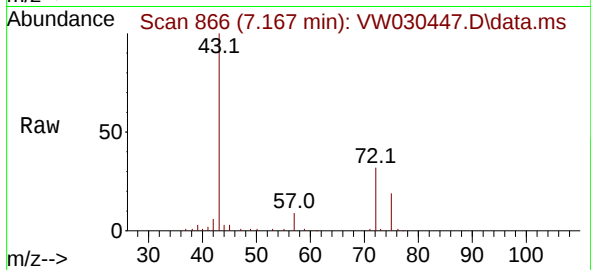
83 15.5 9.9 18.3



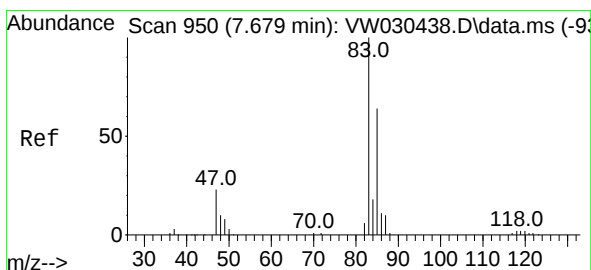
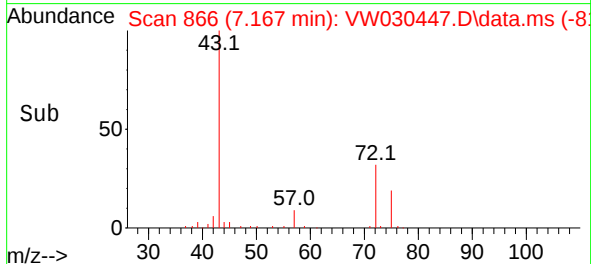
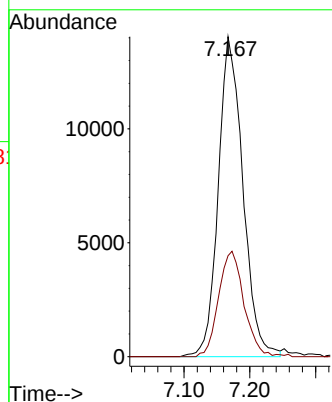


#22
2-Butanone
Concen: 68.701 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Instrument :
MSVOA_W
ClientSampleId :

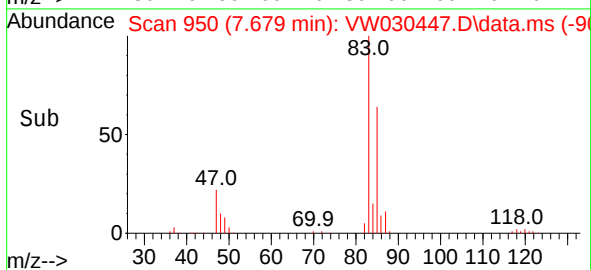
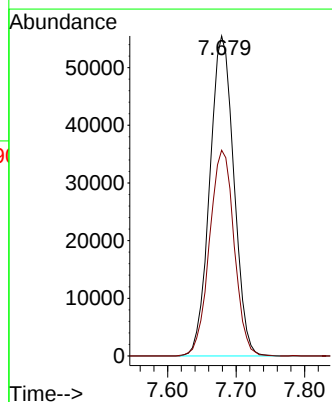
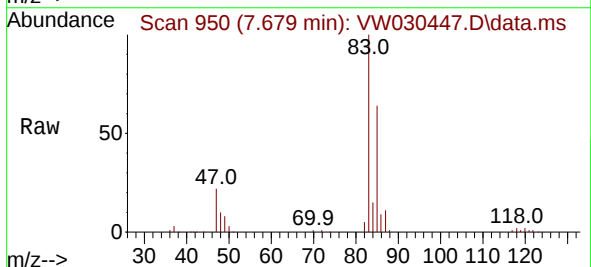


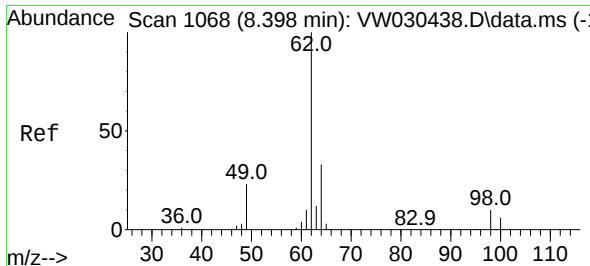
Tgt Ion: 43 Resp: 36591
Ion Ratio Lower Upper
43 100
72 33.8 14.1 42.3



#25
Chloroform
Concen: 40.710 ug/L
RT: 7.679 min Scan# 950
Delta R.T. -0.000 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Tgt Ion: 83 Resp: 135531
Ion Ratio Lower Upper
83 100
85 64.3 45.8 85.0





#27

1,2-Dichloroethane

Concen: 0.835 ug/L

RT: 8.325 min Scan# 1

Delta R.T. -0.073 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Instrument :

MSVOA_W

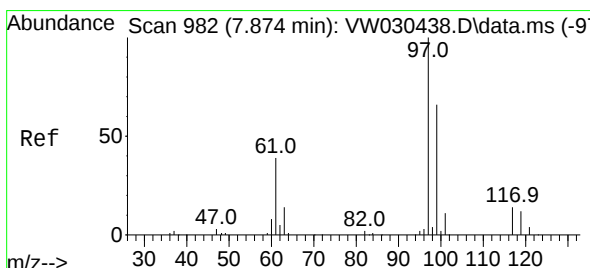
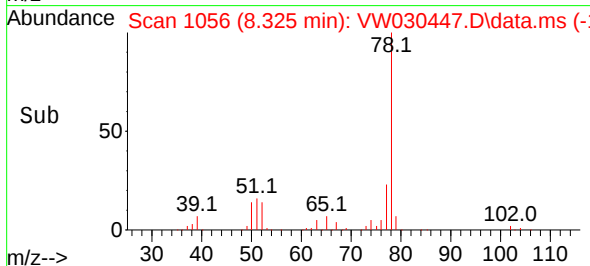
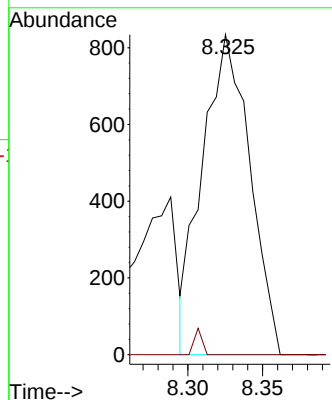
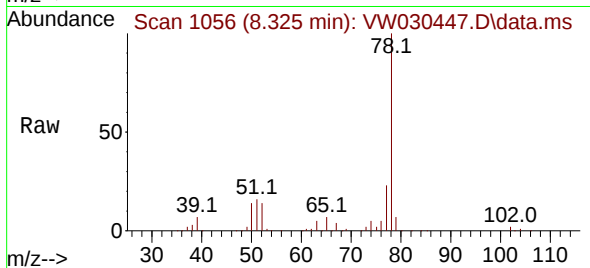
ClientSampleId :

Tgt Ion: 62 Resp: 1844

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.6#



#30

1,1,1-Trichloroethane

Concen: 0.354 ug/L

RT: 7.868 min Scan# 981

Delta R.T. -0.006 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

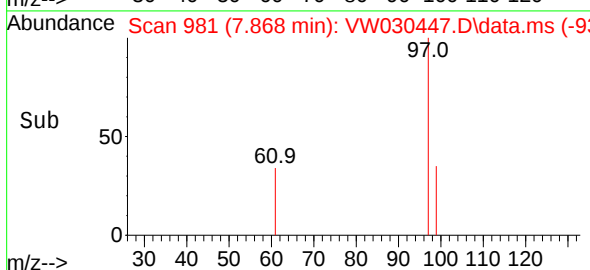
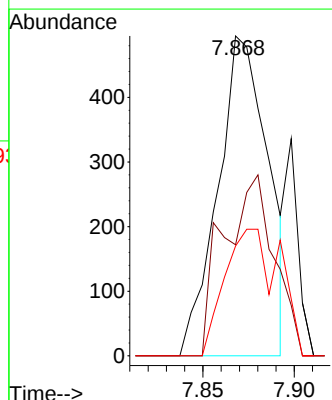
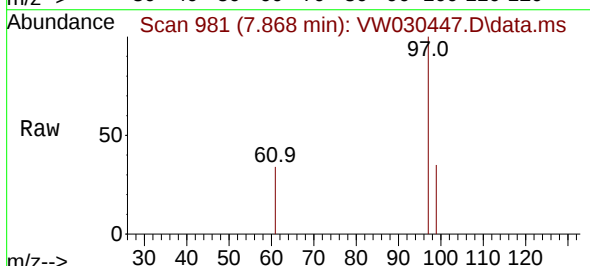
Tgt Ion: 97 Resp: 946

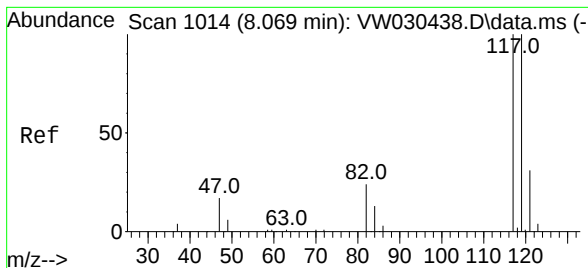
Ion Ratio Lower Upper

97 100

99 35.2 50.9 76.3#

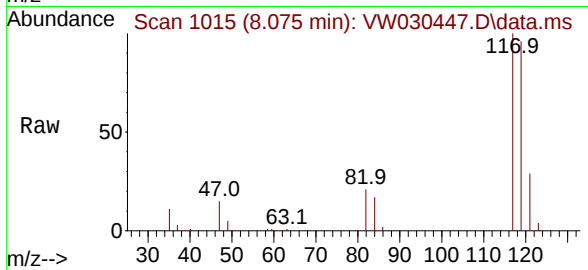
61 32.6 34.1 51.1#



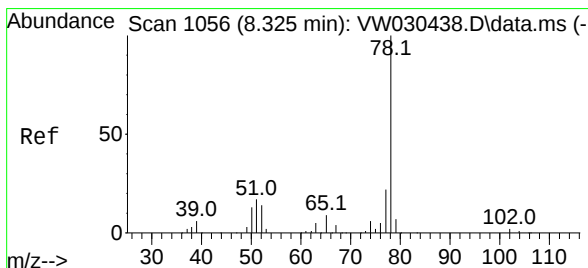
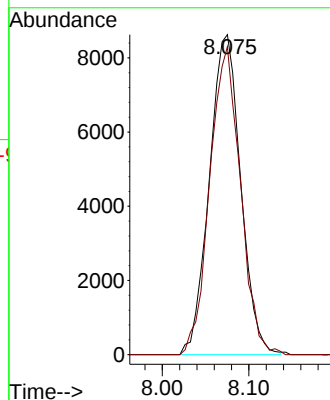
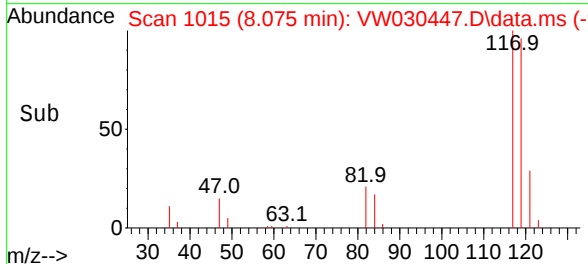


#31
Carbon tetrachloride
Concen: 9.077 ug/L
RT: 8.075 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Instrument :
MSVOA_W
ClientSampleId :

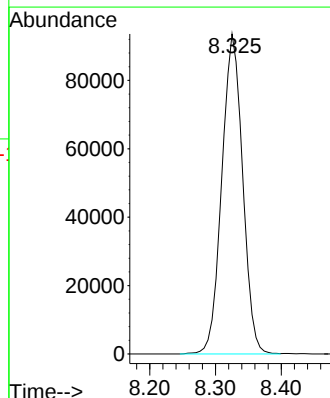
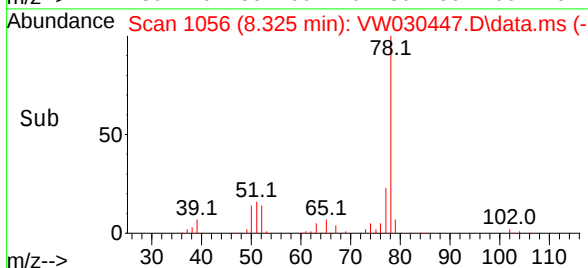
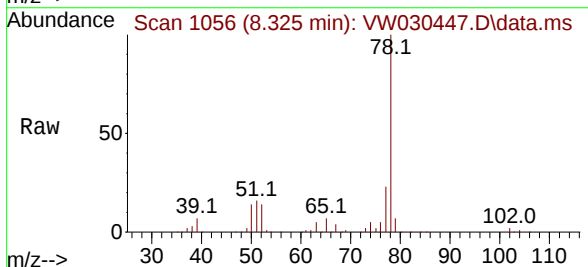


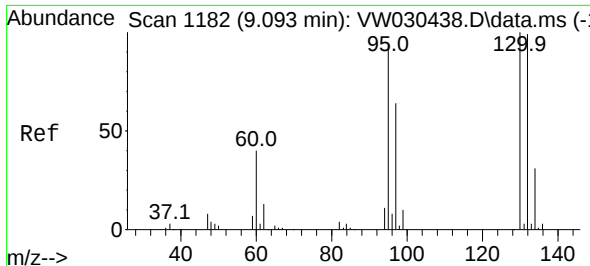
Tgt Ion:117 Resp: 21699
Ion Ratio Lower Upper
117 100
119 93.5 75.5 113.3



#33
Benzene
Concen: 29.365 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Tgt Ion: 78 Resp: 206520

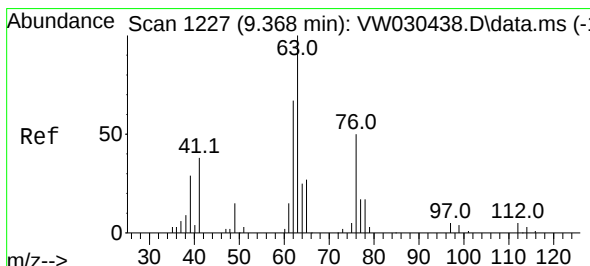
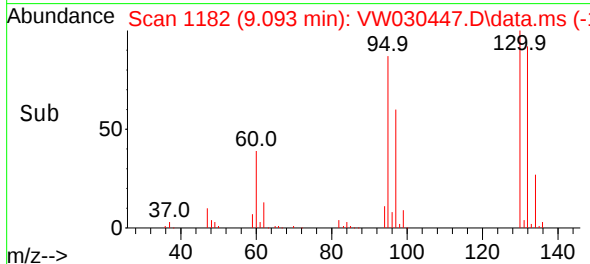
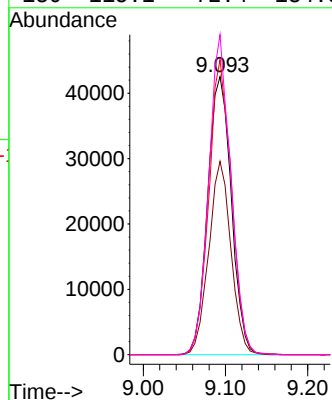
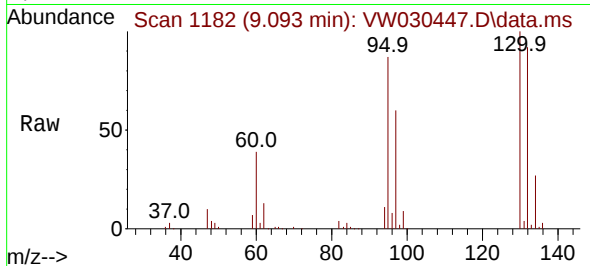




#34
 Trichloroethene
 Concen: 45.468 ug/L
 RT: 9.093 min Scan# 1182
 Delta R.T. -0.000 min
 Lab File: VW030447.D
 Acq: 08 Oct 2024 15:00

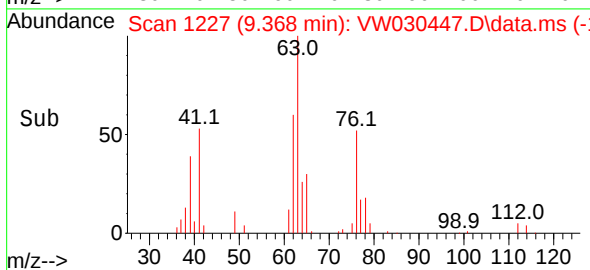
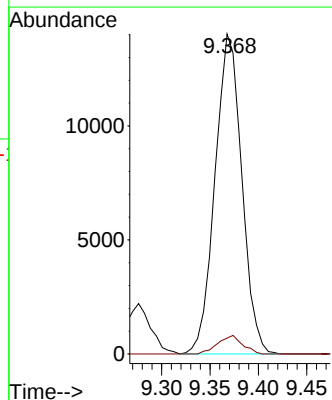
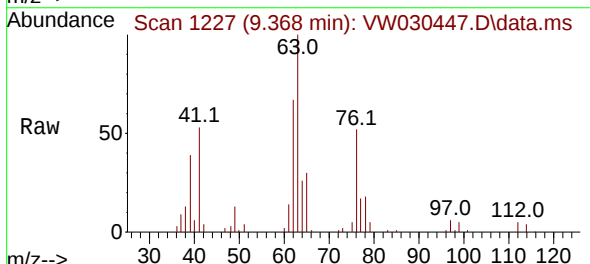
Instrument :
 MSVOA_W
 ClientSampleId :

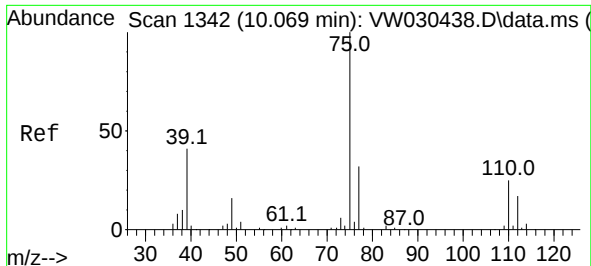
Tgt Ion: 95 Resp: 85057
 Ion Ratio Lower Upper
 95 100
 97 69.5 47.5 88.1
 132 106.2 66.7 123.9
 130 115.1 72.4 134.5



#37
 1,2-Dichloropropane
 Concen: 14.567 ug/L
 RT: 9.368 min Scan# 1227
 Delta R.T. -0.000 min
 Lab File: VW030447.D
 Acq: 08 Oct 2024 15:00

Tgt Ion: 63 Resp: 27030
 Ion Ratio Lower Upper
 63 100
 112 5.3 3.4 5.2#





#39

cis-1,3-Dichloropropene

Concen: 27.020 ug/L

RT: 10.075 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Instrument :

MSVOA_W

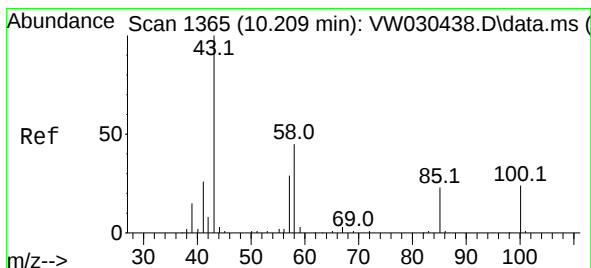
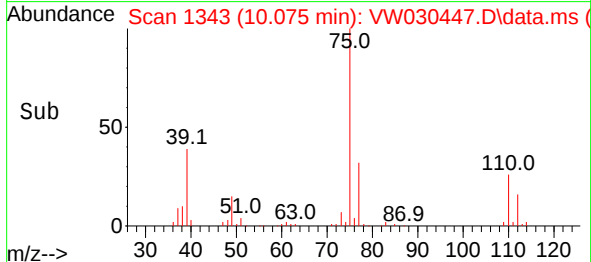
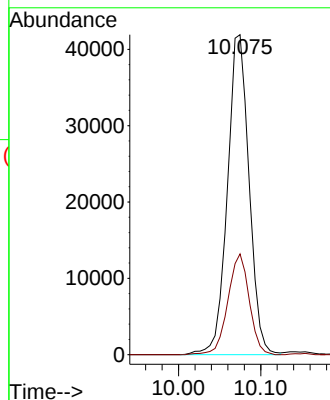
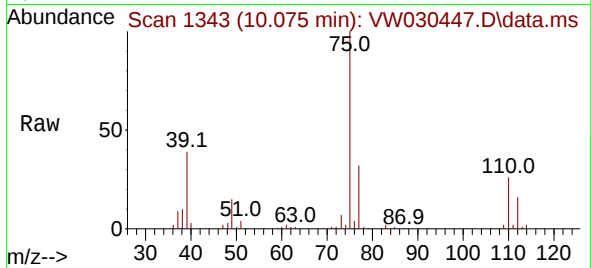
ClientSampleId :

Tgt Ion: 75 Resp: 76878

Ion Ratio Lower Upper

75 100

77 31.5 22.0 40.8



#40

4-Methyl-2-pentanone

Concen: 50.026 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

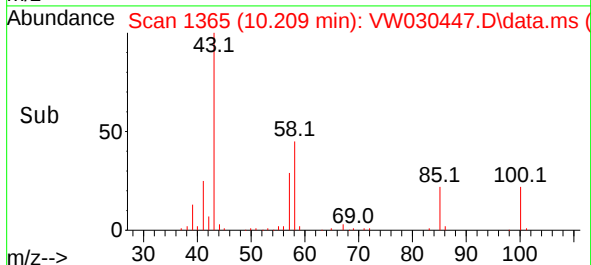
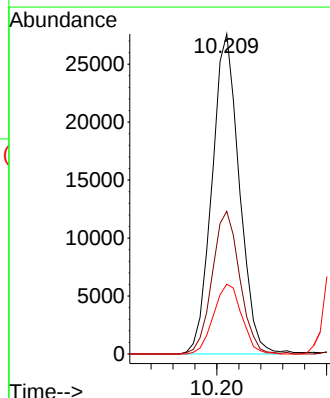
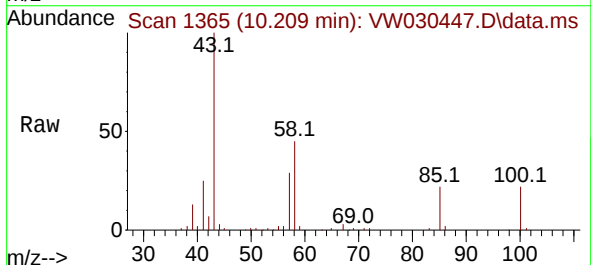
Tgt Ion: 43 Resp: 47745

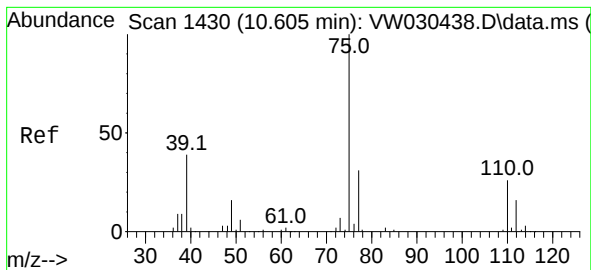
Ion Ratio Lower Upper

43 100

58 45.0 32.6 48.8

100 22.4 12.5 18.7#





#44

trans-1,3-Dichloropropene

Concen: 30.969 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Instrument :

MSVOA_W

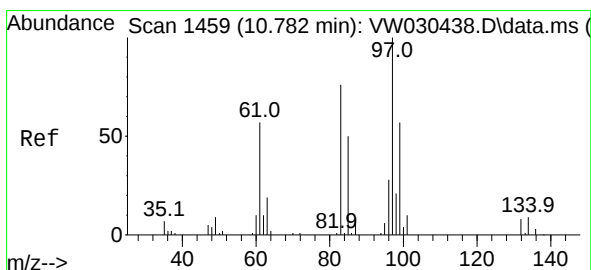
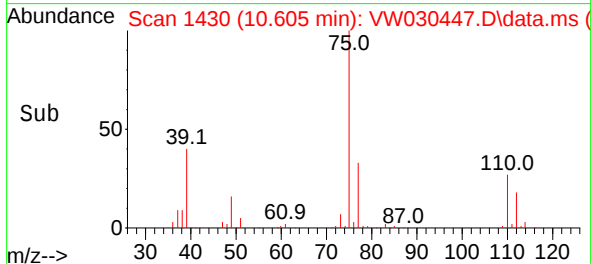
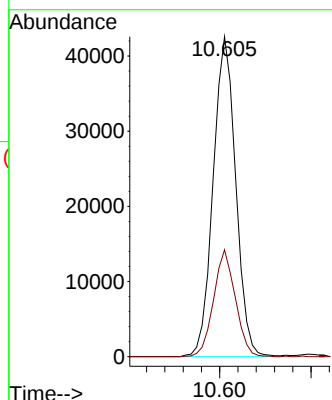
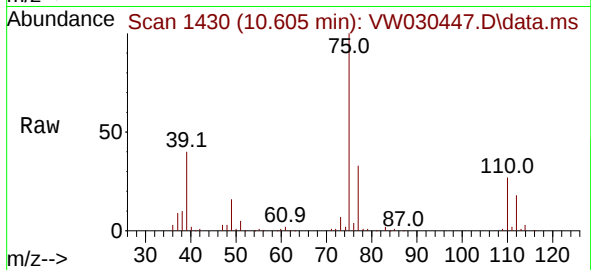
ClientSampleId :

Tgt Ion: 75 Resp: 73012

Ion Ratio Lower Upper

75 100

77 33.4 20.8 38.6



#45

1,1,2-Trichloroethane

Concen: 22.258 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. 0.006 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Tgt Ion: 97 Resp: 29105

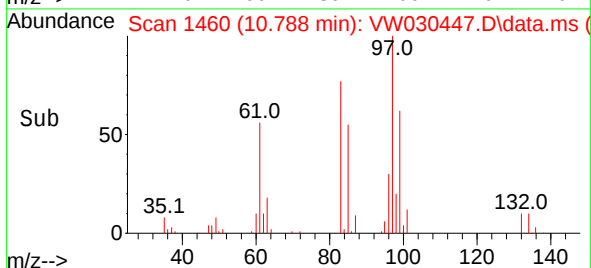
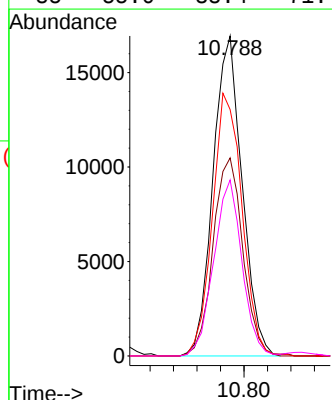
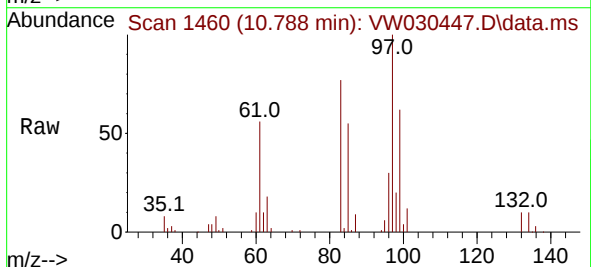
Ion Ratio Lower Upper

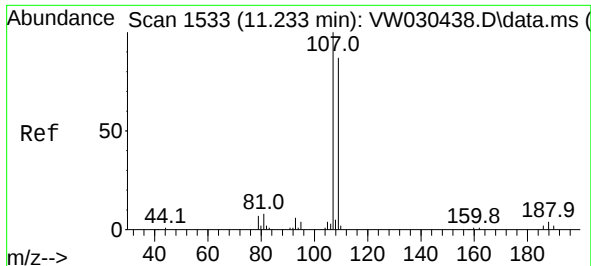
97 100

99 61.9 40.8 75.8

83 77.0 59.1 109.7

85 55.0 38.4 71.4





#50

1,2-Dibromoethane

Concen: 22.024 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW030447.D

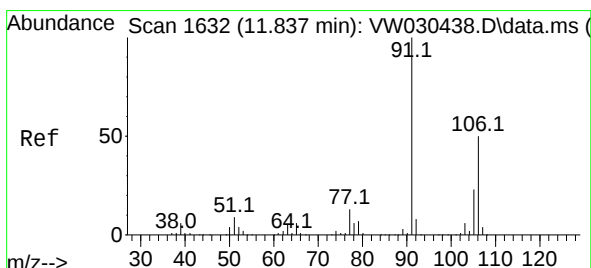
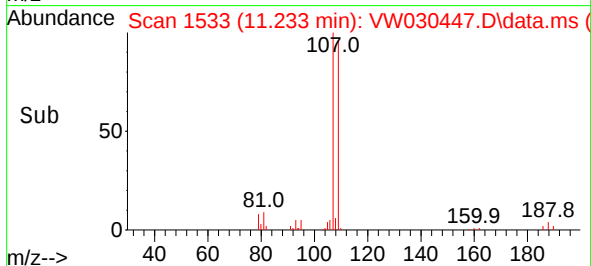
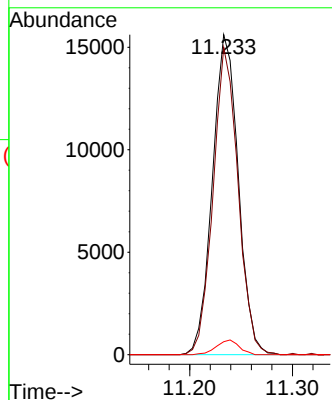
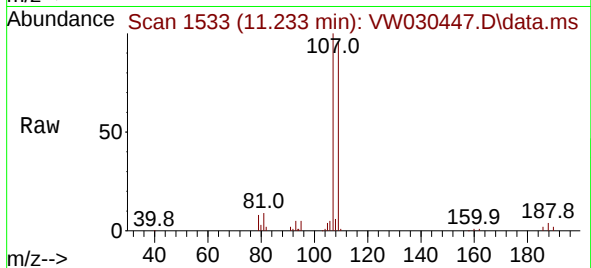
Acq: 08 Oct 2024 15:00

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:107	Resp:	27250
Ion Ratio	Lower	Upper
107	100	
109	96.1	67.8 125.8
188	4.1	2.9 4.3



#53

m,p-Xylene

Concen: 24.515 ug/L

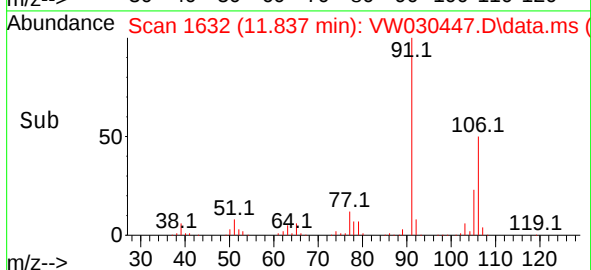
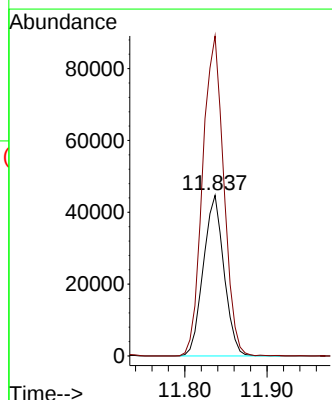
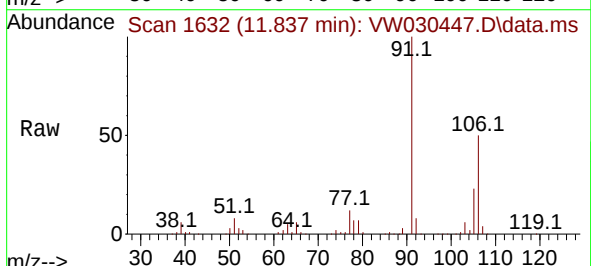
RT: 11.837 min Scan# 1632

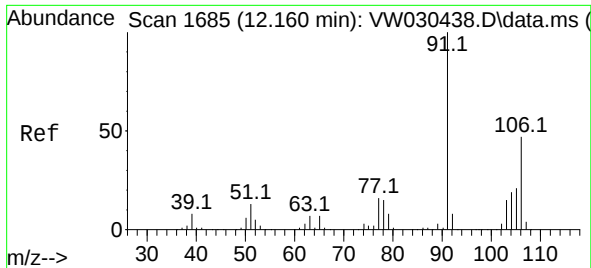
Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Tgt Ion:106	Resp:	78056
Ion Ratio	Lower	Upper
106	100	
91	199.2	144.4 268.2

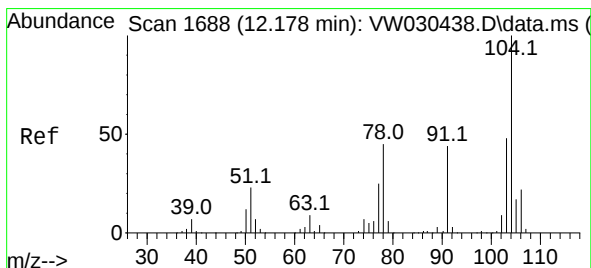
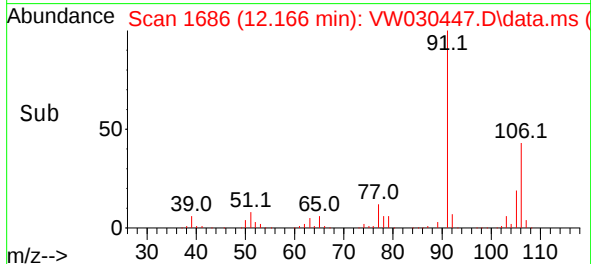
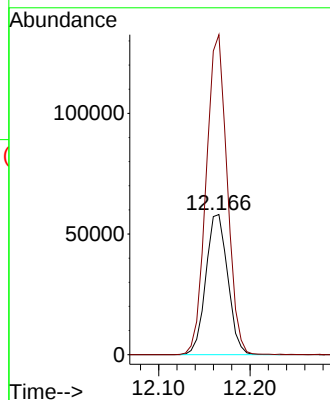
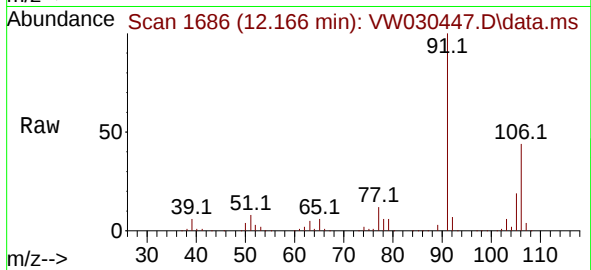




#54
o-Xylene
Concen: 31.838 ug/L
RT: 12.166 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

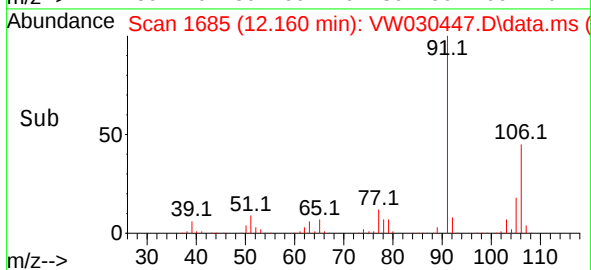
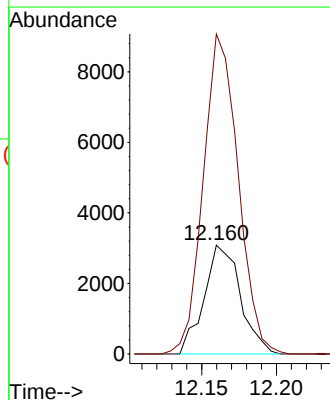
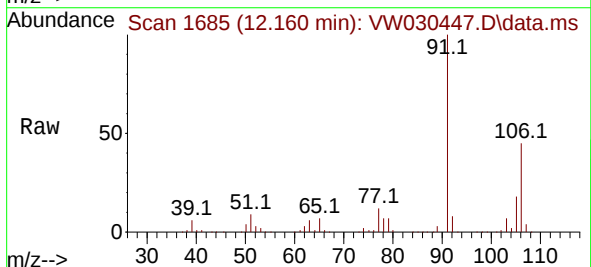
Instrument :
MSVOA_W
ClientSampleId :

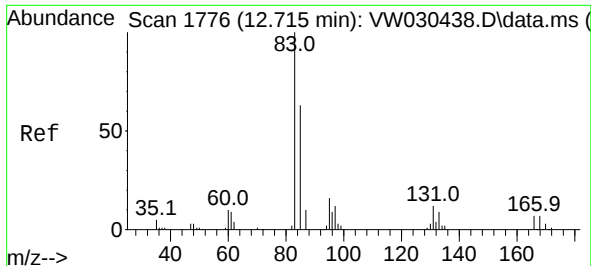
Tgt Ion:106 Resp: 96487
Ion Ratio Lower Upper
106 100
91 228.4 153.6 285.2



#55
Styrene
Concen: 1.008 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.018 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Tgt Ion:104 Resp: 5213
Ion Ratio Lower Upper
104 100
78 294.1 34.6 64.3#

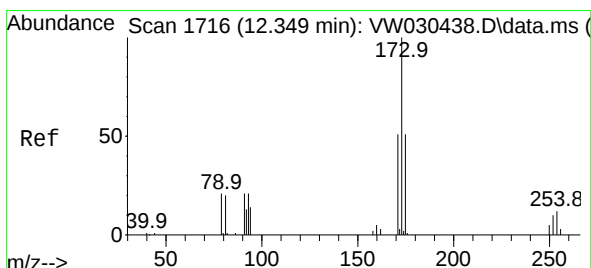
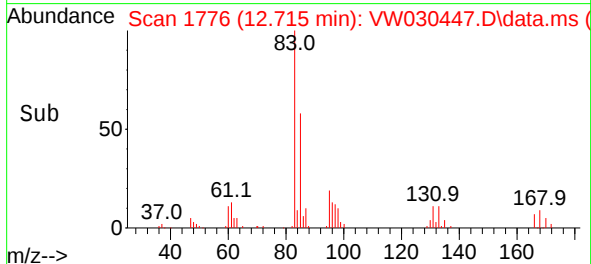
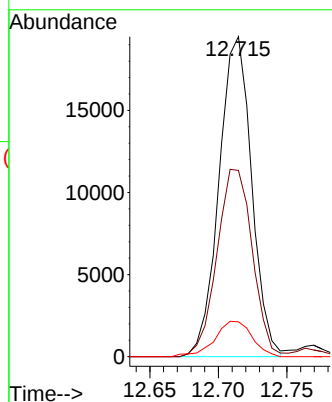
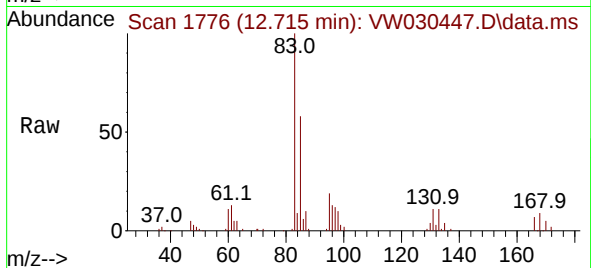




#57
1,1,2,2-Tetrachloroethane
Concen: 21.084 ug/L
RT: 12.715 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

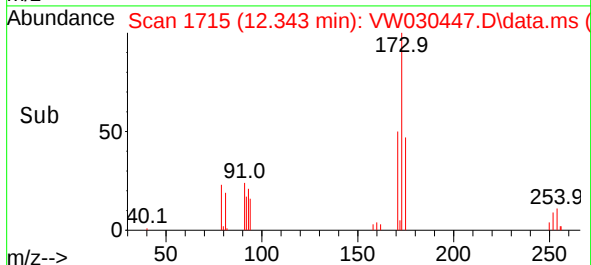
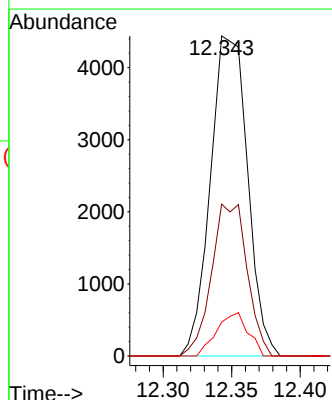
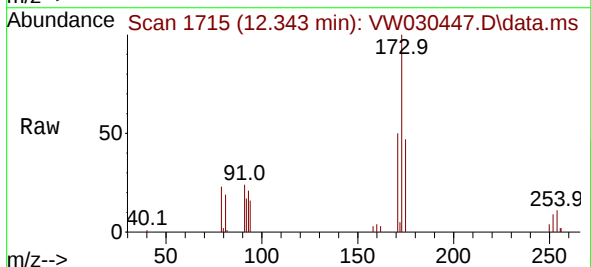
Instrument :
MSVOA_W
ClientSampleId :

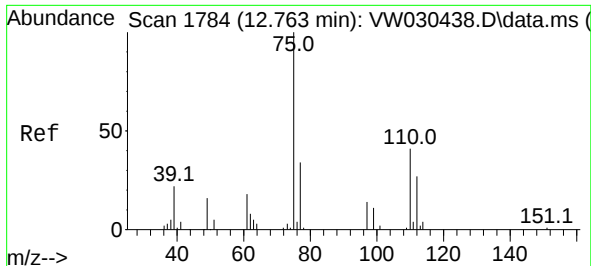
Tgt Ion: 83 Resp: 32290
Ion Ratio Lower Upper
83 100
85 58.2 43.9 81.5
131 10.9 7.1 10.7#



#59
Bromoform
Concen: 9.151 ug/L
RT: 12.343 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Tgt Ion:173 Resp: 8380
Ion Ratio Lower Upper
173 100
175 45.6 38.7 58.1
254 11.3 7.4 11.2#





#61

1,2,3-Trichloropropane

Concen: 30.673 ug/L

RT: 12.763 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Instrument :

MSVOA_W

ClientSampleId :

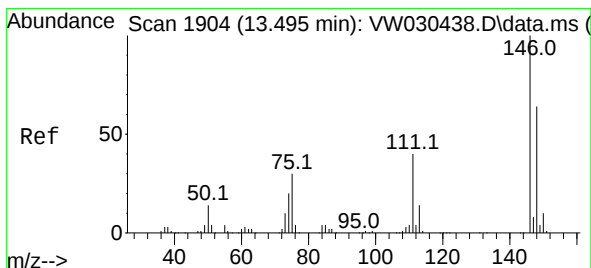
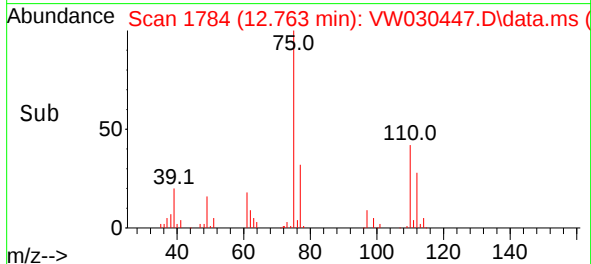
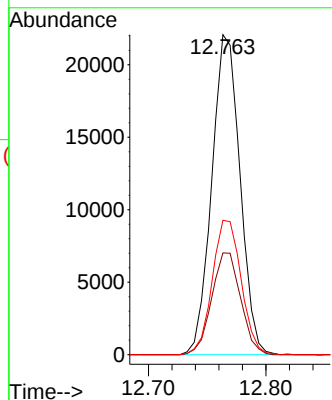
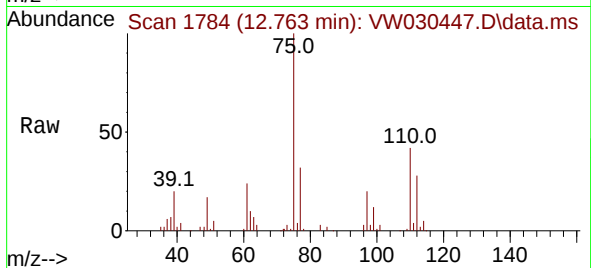
Tgt Ion: 75 Resp: 36857

Ion Ratio Lower Upper

75 100

77 32.6 25.4 38.2

110 43.1 30.8 46.2



#64

1,3-Dichlorobenzene

Concen: 19.330 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

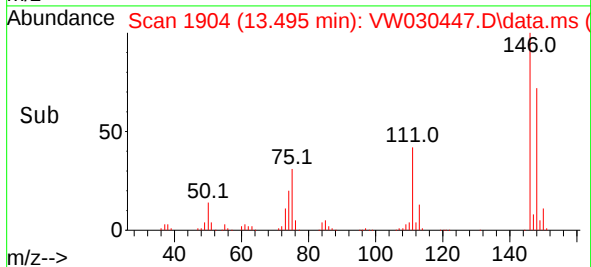
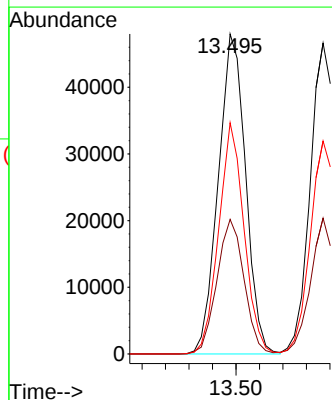
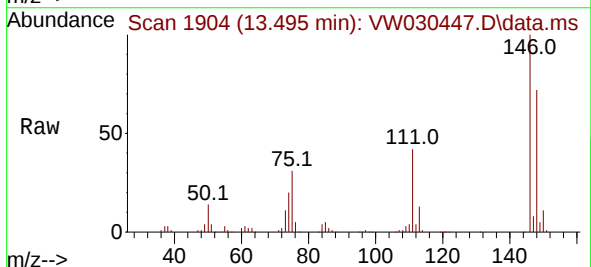
Tgt Ion:146 Resp: 77502

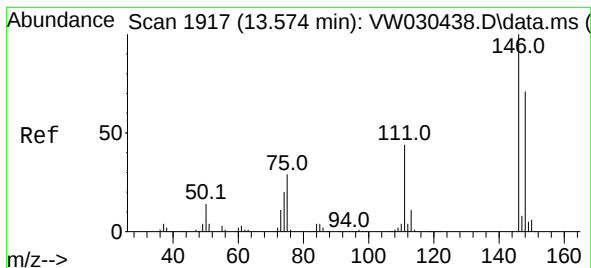
Ion Ratio Lower Upper

146 100

111 42.1 33.2 61.6

148 72.3 50.4 93.6

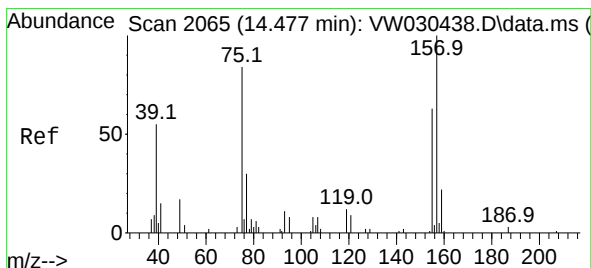
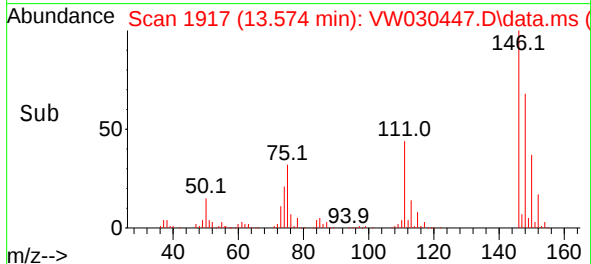
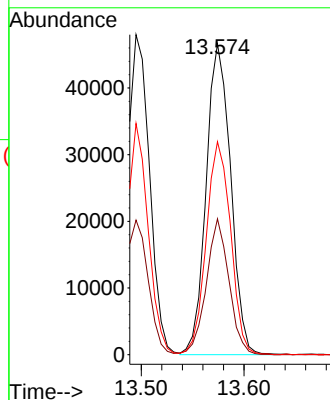
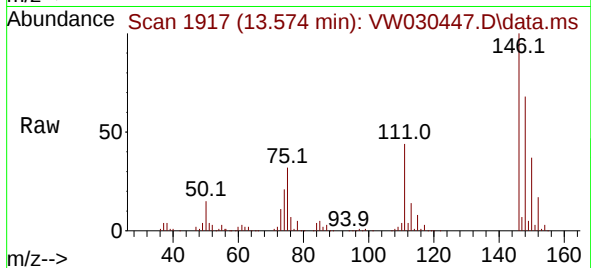




#65
1,4-Dichlorobenzene
Concen: 18.902 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

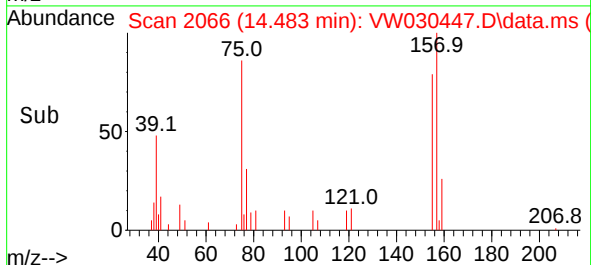
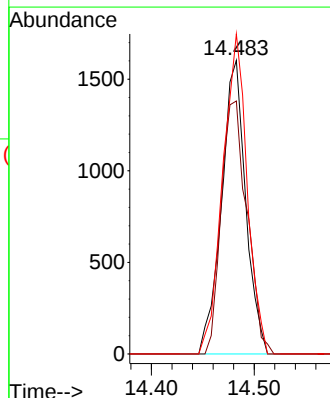
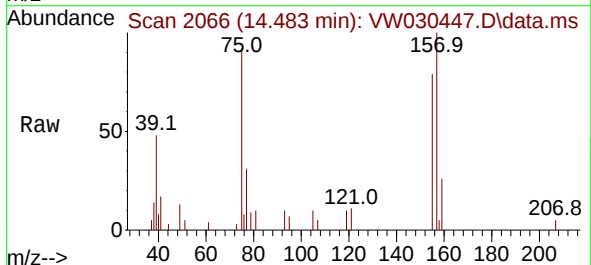
Instrument :
MSVOA_W
ClientSampleId :

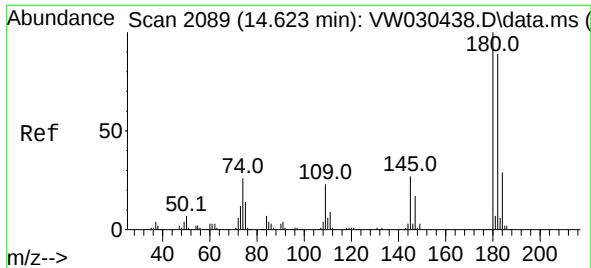
Tgt Ion:146 Resp: 77419
Ion Ratio Lower Upper
146 100
111 43.7 29.1 54.1
148 68.5 42.1 78.1



#68
1,2-Dibromo-3-chloropropane
Concen: 9.476 ug/L
RT: 14.483 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Tgt Ion: 75 Resp: 2609
Ion Ratio Lower Upper
75 100
155 86.2 60.1 90.1
157 109.0 74.3 111.5





#69

1,3,5-Trichlorobenzene

Concen: 10.036 ug/L

RT: 15.129 min Scan# 2112

Delta R.T. 0.506 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180 Resp: 27772

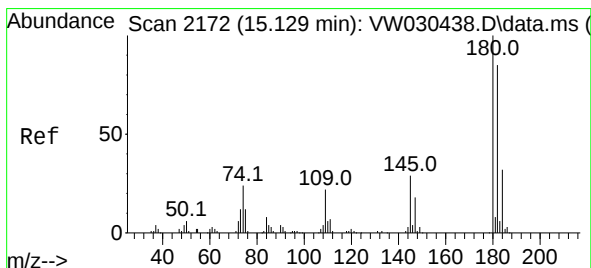
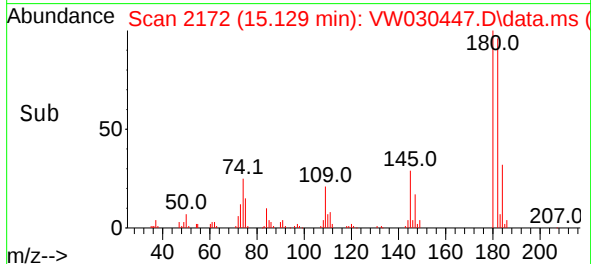
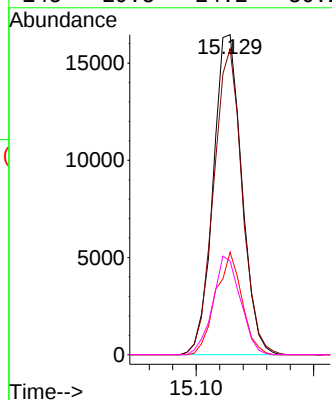
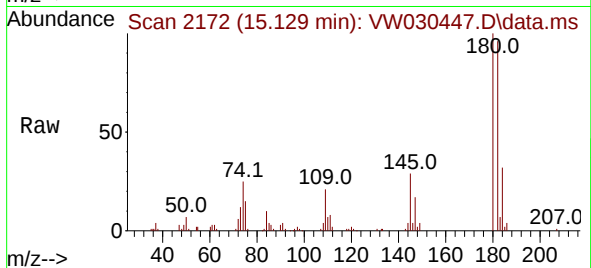
Ion Ratio Lower Upper

180 100

182 95.3 77.4 116.2

184 29.5 24.5 36.7

145 29.8 24.2 36.2



#70

1,2,4-trichlorobenzene

Concen: 12.122 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. -0.000 min

Lab File: VW030447.D

Acq: 08 Oct 2024 15:00

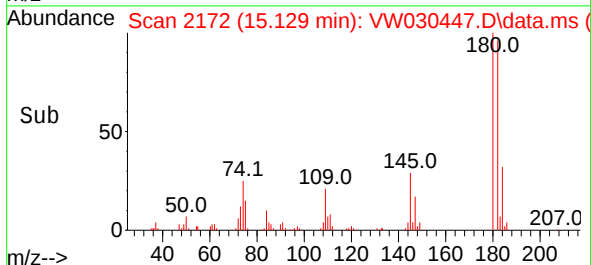
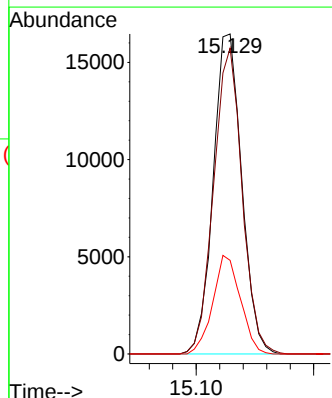
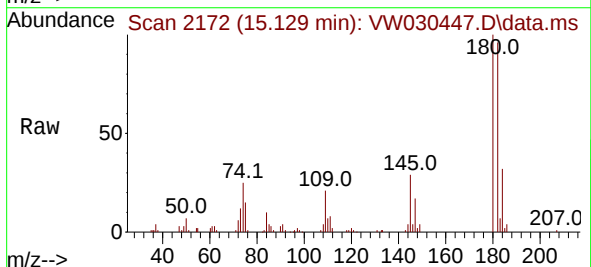
Tgt Ion:180 Resp: 27772

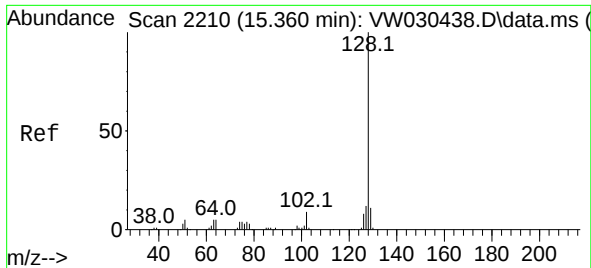
Ion Ratio Lower Upper

180 100

182 95.3 77.2 115.8

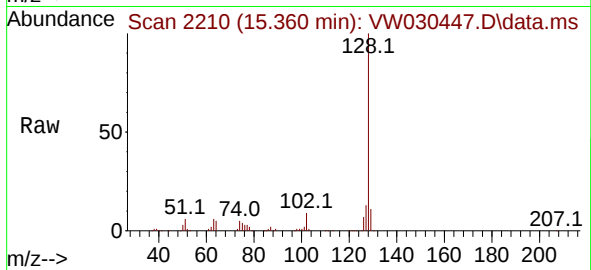
145 29.8 25.3 37.9





#71
Naphthalene
Concen: 38.372 ug/L
RT: 15.360 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW030447.D
Acq: 08 Oct 2024 15:00

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:128 Resp: 160809
Ion Ratio Lower Upper
128 100
127 12.6 10.8 16.2
129 10.4 8.8 13.2

