

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW030724\
 Data File : VW028121.D
 Acq On : 07 Mar 2024 12:45
 Operator : SY/MD
 Sample : P1638-01DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Mar 08 00:17:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM022924SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Mar 08 00:16:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.837	114	255137	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	235027	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	117084	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.369	65	62781	20.614	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.440%
7) Chloroethane-d5	2.899	69	51157	21.683	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.720%
11) 1,1-Dichloroethene-d2	4.027	65	26304	21.144	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.560%
21) 2-Butanone-d5	7.075	46	30852	71.013	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	142.020%#
24) Chloroform-d	7.648	84	125785	23.277	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.120%
26) 1,2-Dichloroethane-d4	8.307	65	66702	26.522	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.080%
32) Benzene-d6	8.276	84	256381	23.368	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.480%
36) 1,2-Dichloropropane-d6	9.270	67	67738	23.896	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.600%
41) Toluene-d8	10.319	98	243444	23.545	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.160%
43) trans-1,3-Dichloroprop...	10.575	79	32858	26.451	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	105.800%
47) 2-Hexanone-d5	10.922	63	29793	74.616	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	149.240%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	66963	29.930	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	119.720%
66) 1,2-Dichlorobenzene-d4	13.848	152	89865	25.808	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.240%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.051	96	132045	41.633	ug/L	90
13) Acetone	4.118	43	53366	87.878	ug/L	100
16) Methylene chloride	4.923	84	72645	20.699	ug/L	96
17) trans-1,2-Dichloroethene	5.429	96	39086	11.533	ug/L	96
18) Methyl tert-butyl Ether	5.429	73	41926	10.102	ug/L #	87
20) cis-1,2-Dichloroethene	7.173	96	50833	14.253	ug/L	96
22) 2-Butanone	7.167	43	45007	66.361	ug/L	97
27) 1,2-Dichloroethane	8.398	62	64417	18.100	ug/L	99
31) Carbon tetrachloride	8.069	117	168166	34.318	ug/L	100
33) Benzene	8.325	78	306441	24.135	ug/L	100
34) Trichloroethene	9.087	95	156934	42.183	ug/L	96
37) 1,2-Dichloropropane	9.367	63	66975	22.651	ug/L	100
38) Bromodichloromethane	9.642	83	112979	26.453	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	130462	26.830	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	144566	123.096	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	71853	18.190	ug/L	97
45) 1,1,2-Trichloroethane	10.788	97	54965	22.165	ug/L	96
46) Tetrachloroethene	10.861	164	70284	22.541	ug/L #	78
48) 2-Hexanone	10.965	43	59580	62.742	ug/L	100

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

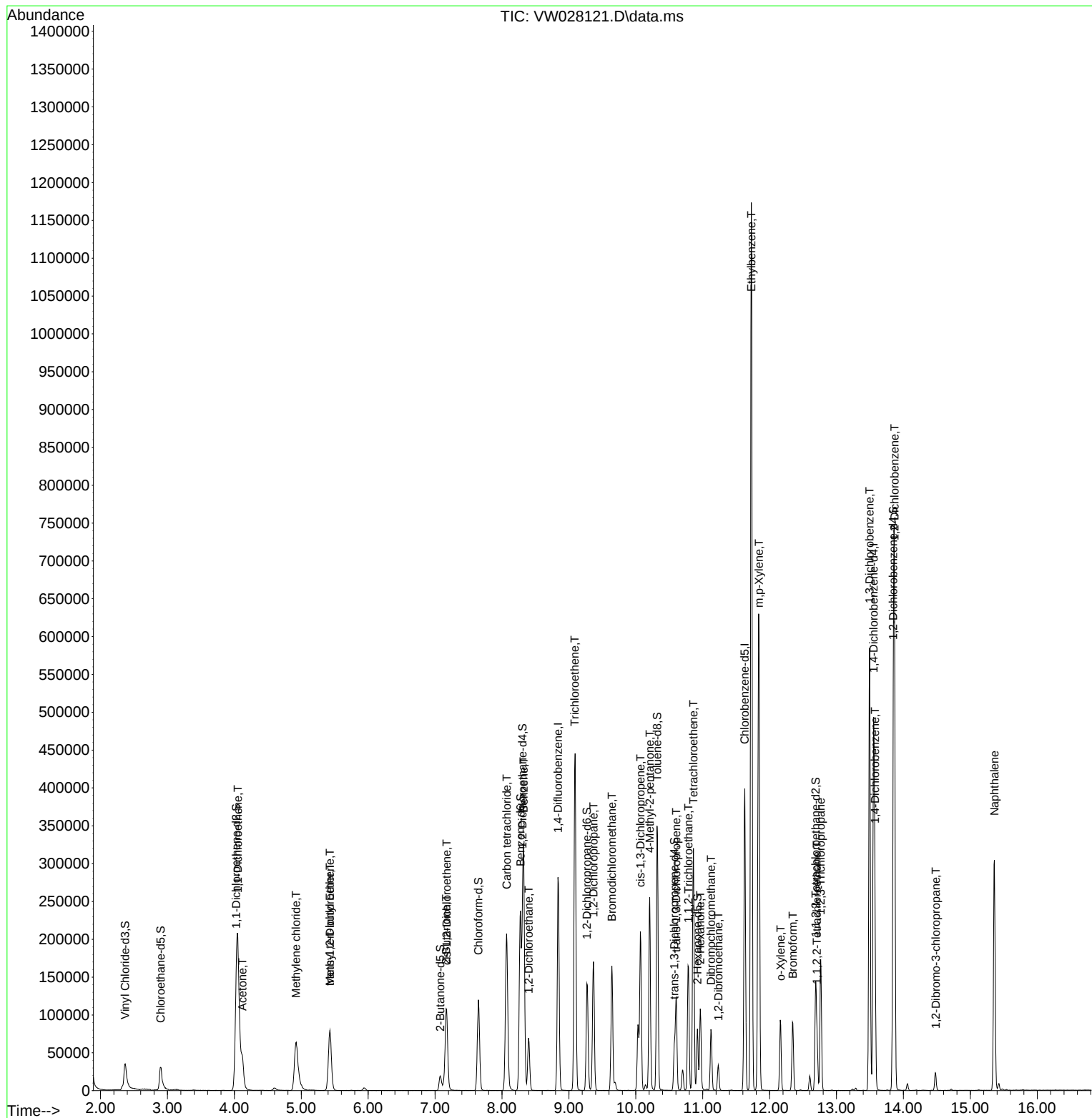
49) Dibromochloromethane	11.123	129	44339	15.381	ug/L	91
50) 1,2-Dibromoethane	11.233	107	22391	9.375	ug/L #	94
52) Ethylbenzene	11.727	91	631318	38.488	ug/L	94
53) m,p-Xylene	11.843	106	205956	32.362	ug/L	99
54) o-Xylene	12.166	106	26125	4.338	ug/L	97
57) 1,1,2,2-Tetrachloroethane	12.708	83	28154	10.529	ug/L	96
59) Bromoform	12.349	173	42392	25.540	ug/L	95
61) 1,2,3-Trichloropropane	12.763	75	73478	40.825	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	243208	32.762	ug/L #	81
65) 1,4-Dichlorobenzene	13.574	146	101201	13.503	ug/L	97
67) 1,2-Dichlorobenzene	13.867	146	264845	39.606	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.482	75	6279	16.610	ug/L	92
71) Naphthalene	15.360	128	269323	37.429	ug/L	100

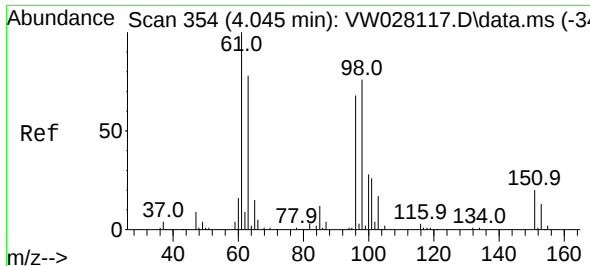
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 41.633 ug/L

RT: 4.051 min Scan# 354

Delta R.T. 0.006 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

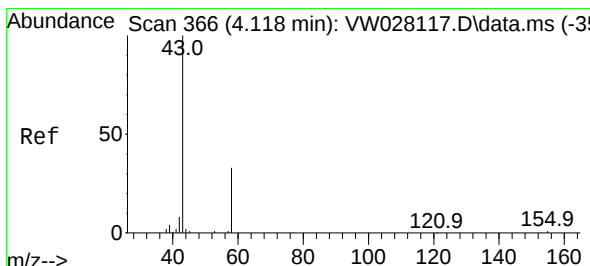
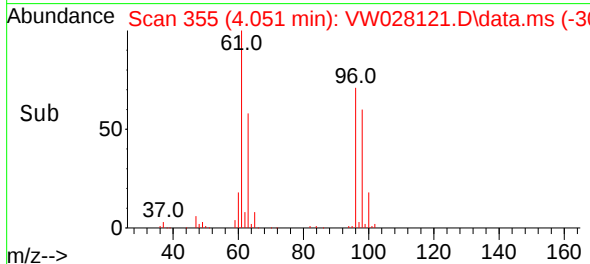
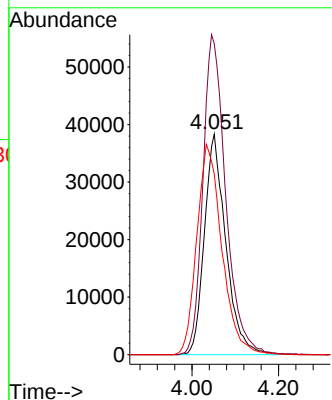
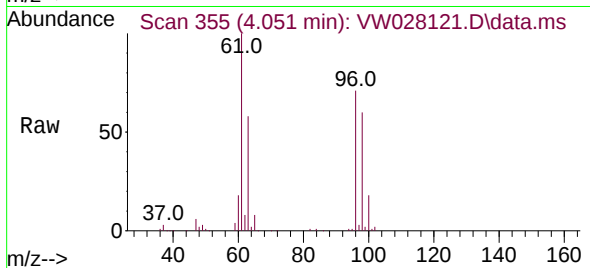
Tgt Ion: 96 Resp: 132045

Ion Ratio Lower Upper

96 100

61 140.9 100.5 186.7

63 81.8 72.9 135.5



#13

Acetone

Concen: 87.878 ug/L

RT: 4.118 min Scan# 366

Delta R.T. -0.000 min

Lab File: VW028121.D

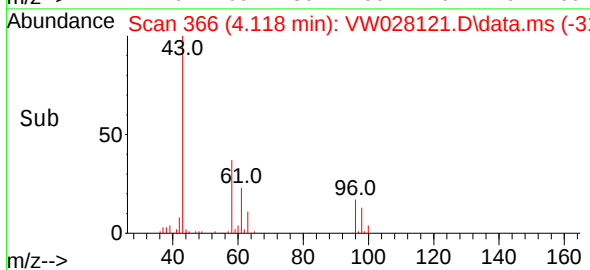
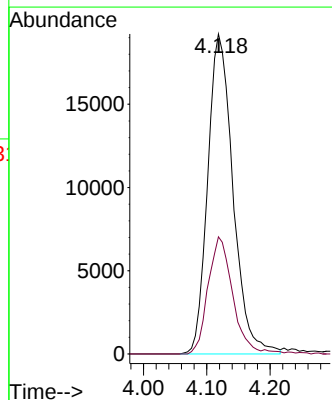
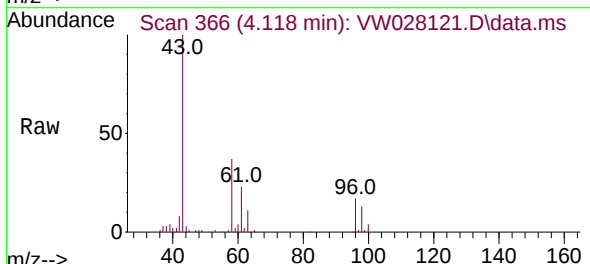
Acq: 07 Mar 2024 12:45

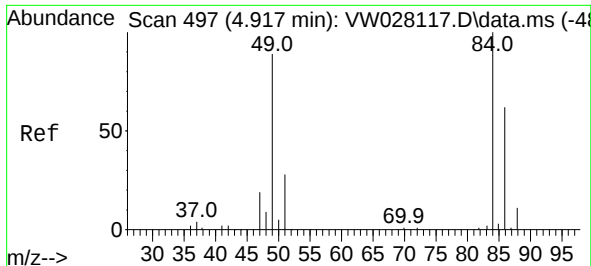
Tgt Ion: 43 Resp: 53366

Ion Ratio Lower Upper

43 100

58 35.1 0.0 70.0

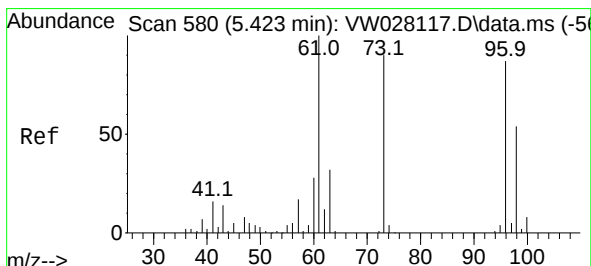
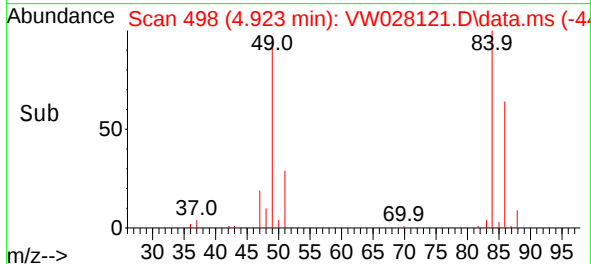
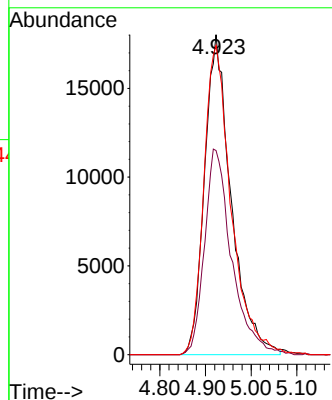
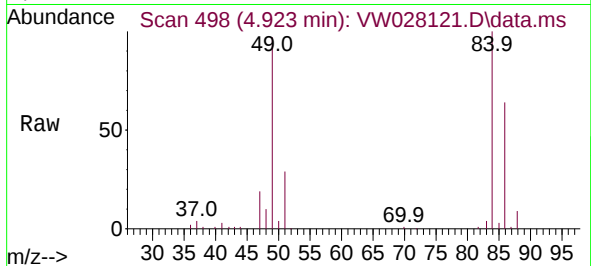




#16
Methylene chloride
Concen: 20.699 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

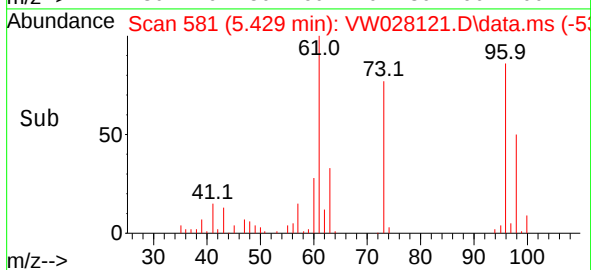
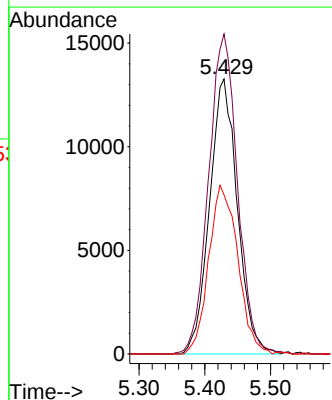
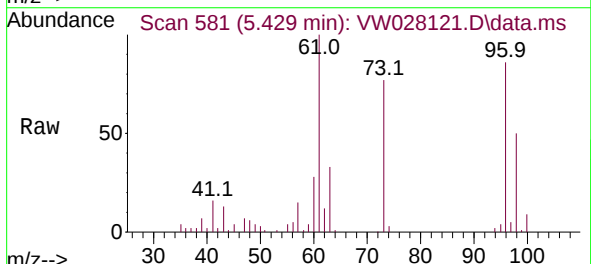
Instrument :
MSVOA_W
ClientSampleId :

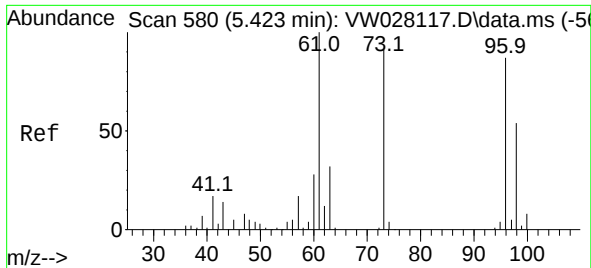
Tgt Ion: 84 Resp: 72645
Ion Ratio Lower Upper
84 100
86 63.8 41.2 76.6
49 96.6 66.5 123.5



#17
trans-1,2-Dichloroethene
Concen: 11.533 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 96 Resp: 39086
Ion Ratio Lower Upper
96 100
61 116.4 82.6 153.4
98 57.9 44.7 83.1





#18

Methyl tert-butyl Ether

Concen: 10.102 ug/L

RT: 5.429 min Scan# 580

Delta R.T. 0.006 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

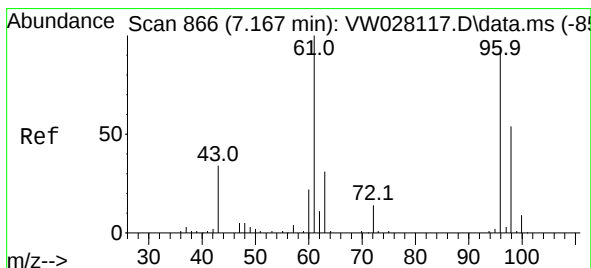
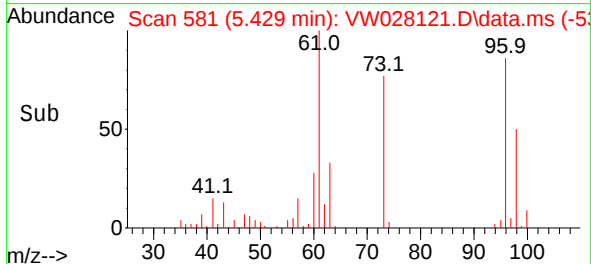
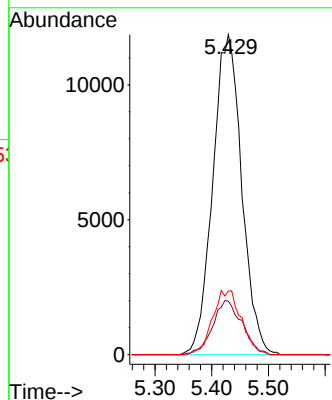
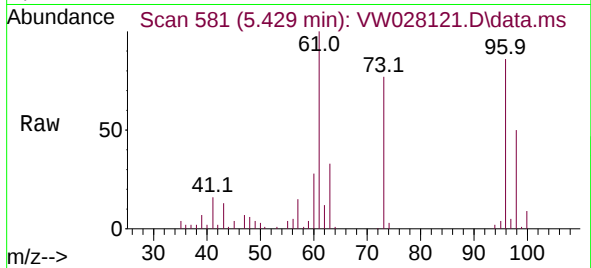
Tgt Ion: 73 Resp: 41926

Ion Ratio Lower Upper

73 100

43 17.2 13.3 19.9

57 9.6 15.9 23.9#



#20

cis-1,2-Dichloroethene

Concen: 14.253 ug/L

RT: 7.173 min Scan# 867

Delta R.T. 0.006 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

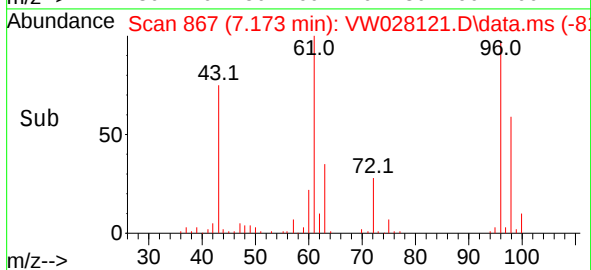
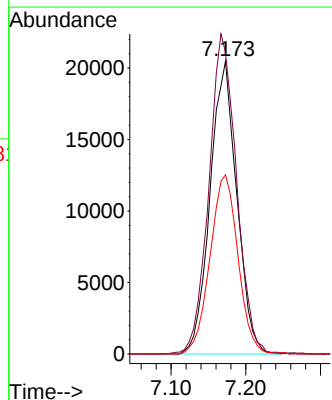
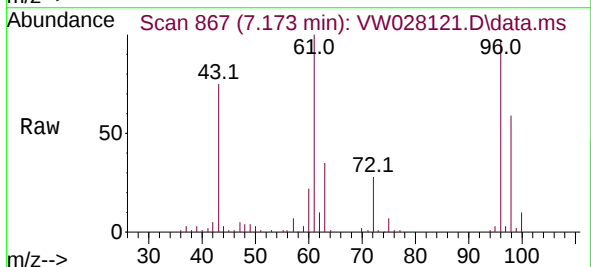
Tgt Ion: 96 Resp: 50833

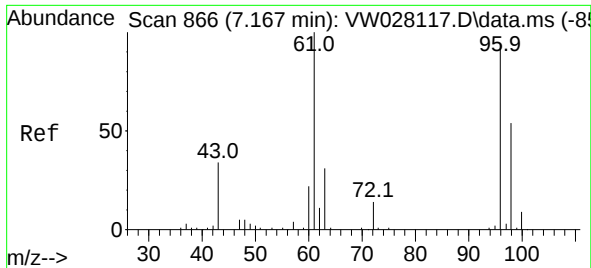
Ion Ratio Lower Upper

96 100

61 103.1 75.5 140.1

98 61.2 43.8 81.4





#22

2-Butanone

Concen: 66.361 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

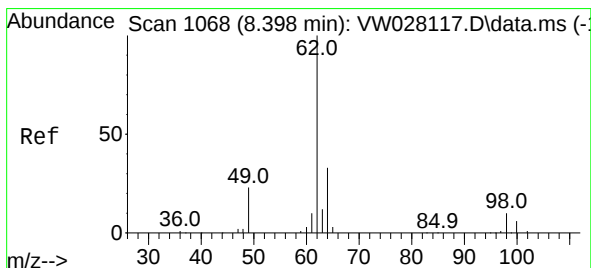
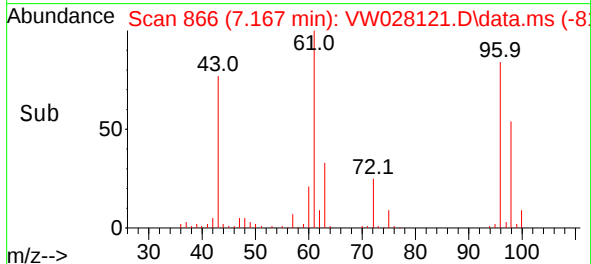
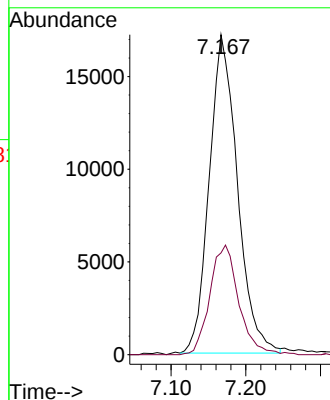
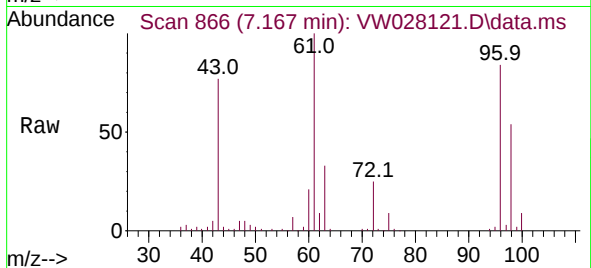
ClientSampleId :

Tgt Ion: 43 Resp: 45007

Ion Ratio Lower Upper

43 100

72 35.0 18.4 55.0



#27

1,2-Dichloroethane

Concen: 18.100 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. -0.000 min

Lab File: VW028121.D

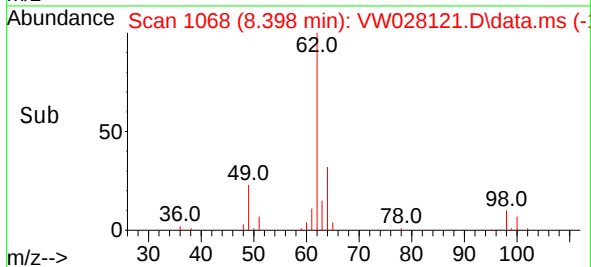
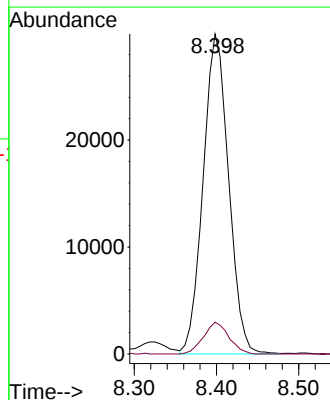
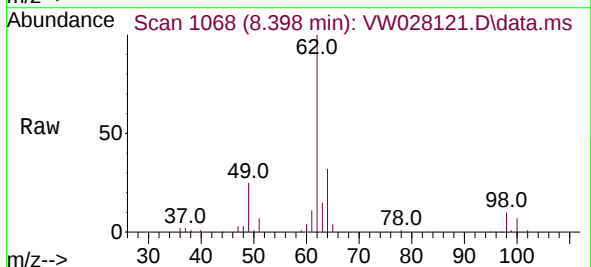
Acq: 07 Mar 2024 12:45

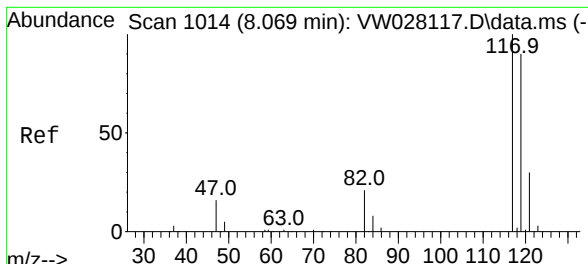
Tgt Ion: 62 Resp: 64417

Ion Ratio Lower Upper

62 100

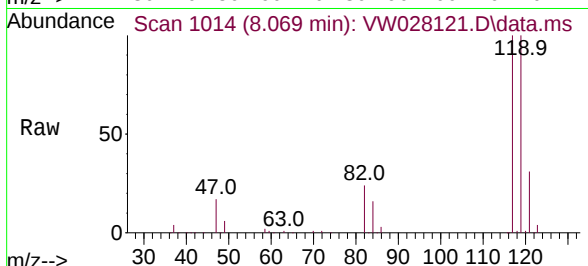
98 9.9 8.2 12.4



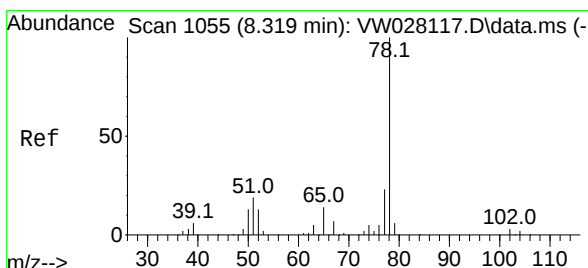
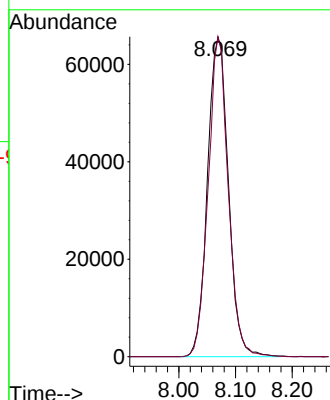
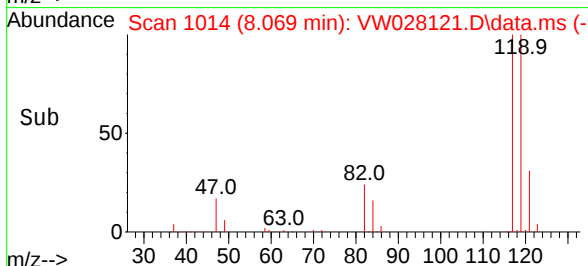


#31
Carbon tetrachloride
Concen: 34.318 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

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MSVOA_W
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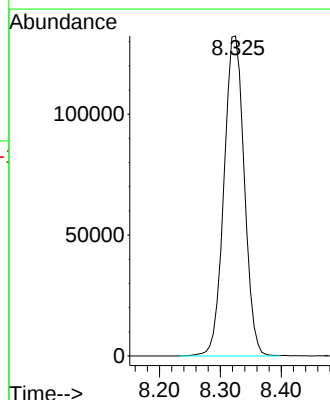
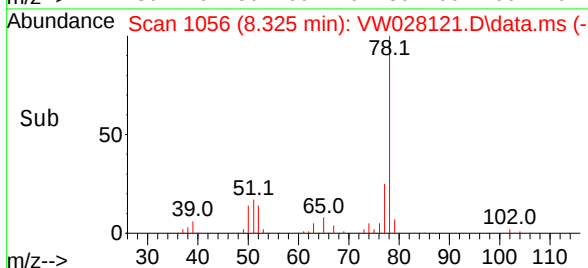
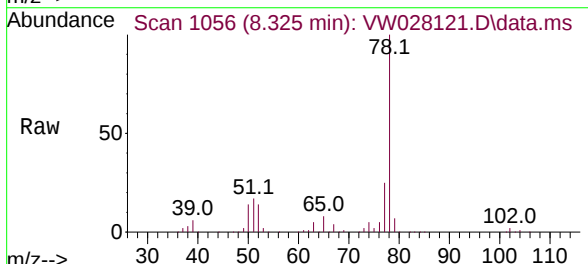


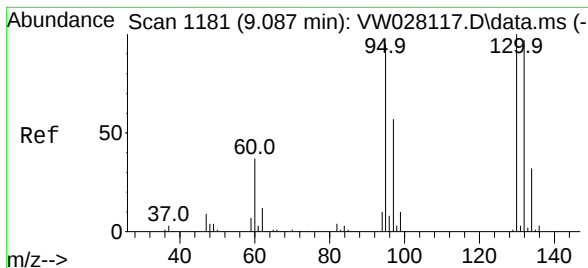
Tgt Ion:117 Resp: 168166
Ion Ratio Lower Upper
117 100
119 95.9 76.8 115.2



#33
Benzene
Concen: 24.135 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 78 Resp: 306441





#34

Trichloroethene

Concen: 42.183 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.000 min

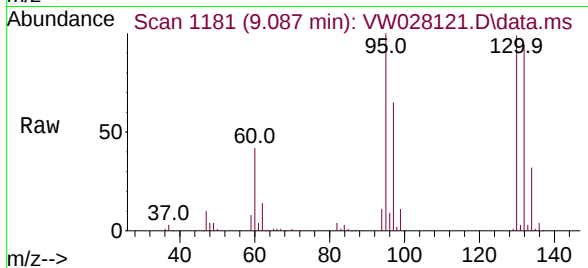
Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 156934

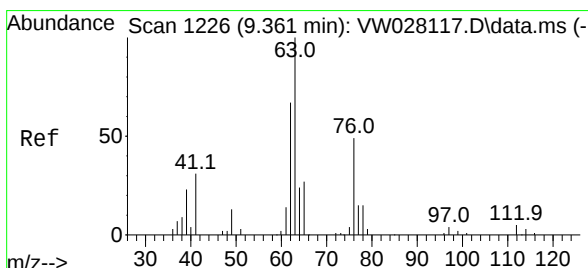
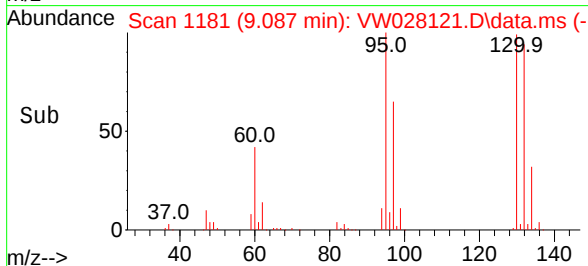
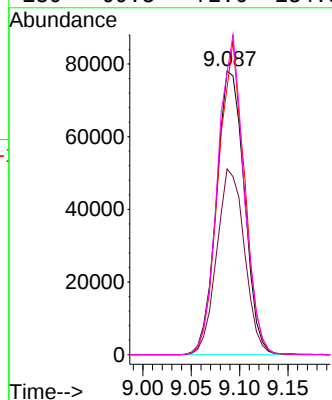
Ion Ratio Lower Upper

95 100

97 65.4 44.5 82.7

132 94.2 68.3 126.9

130 99.3 72.6 134.8



#37

1,2-Dichloropropane

Concen: 22.651 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. 0.006 min

Lab File: VW028121.D

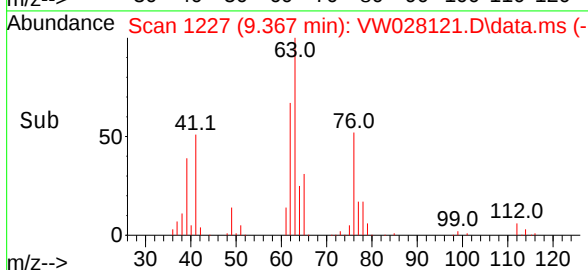
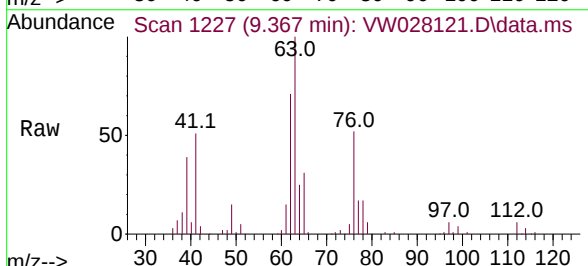
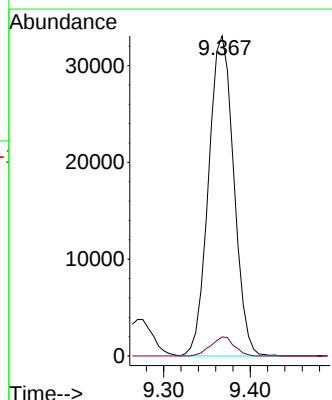
Acq: 07 Mar 2024 12:45

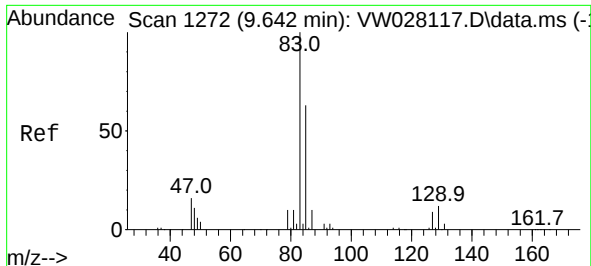
Tgt Ion: 63 Resp: 66975

Ion Ratio Lower Upper

63 100

112 5.5 4.4 6.6





#38

Bromodichloromethane

Concen: 26.453 ug/L

RT: 9.642 min Scan# 11

Delta R.T. -0.000 min

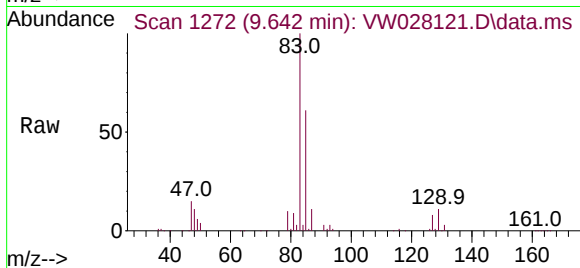
Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :



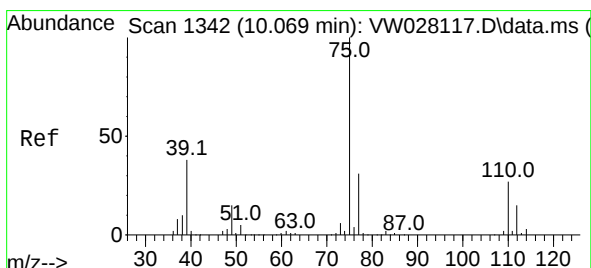
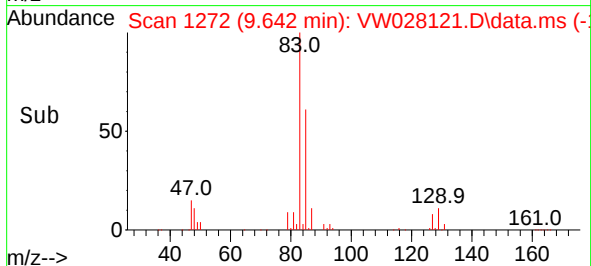
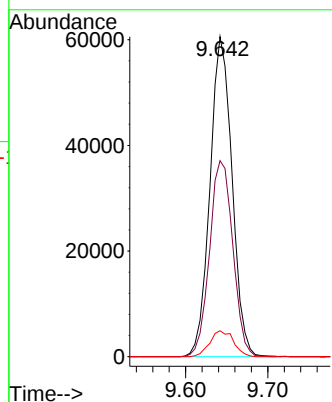
Tgt Ion: 83 Resp: 112979

Ion Ratio Lower Upper

83 100

85 61.2 43.3 80.5

127 8.1 6.9 10.3



#39

cis-1,3-Dichloropropene

Concen: 26.830 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW028121.D

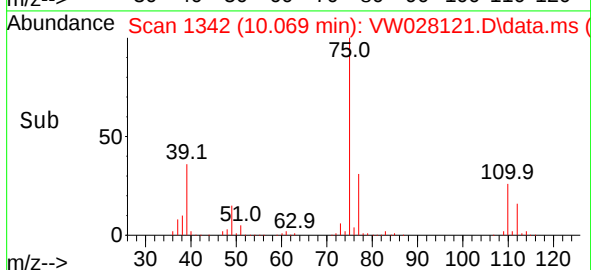
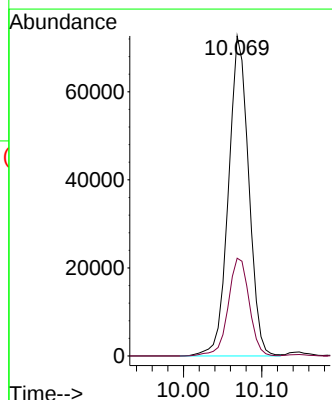
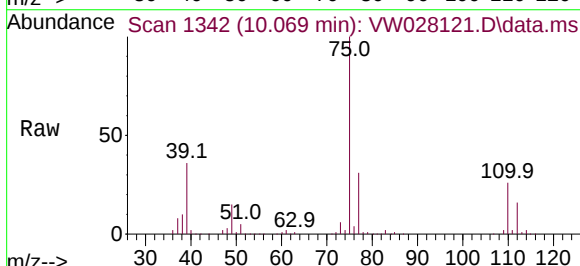
Acq: 07 Mar 2024 12:45

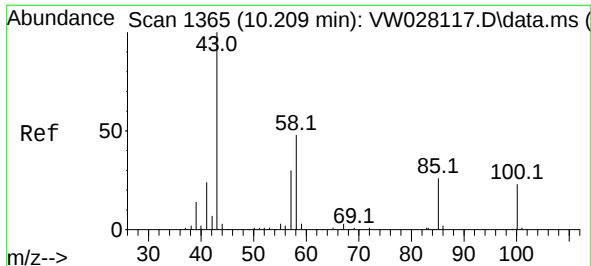
Tgt Ion: 75 Resp: 130462

Ion Ratio Lower Upper

75 100

77 30.5 21.7 40.3





#40

4-Methyl-2-pentanone

Concen: 123.096 ug/L

RT: 10.209 min Scan# 14

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

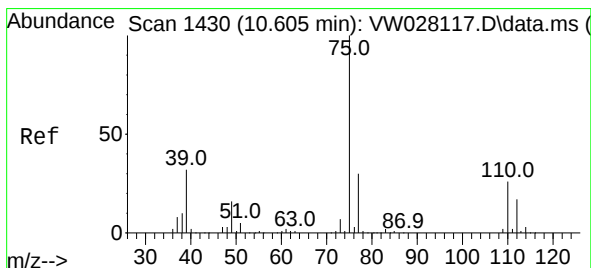
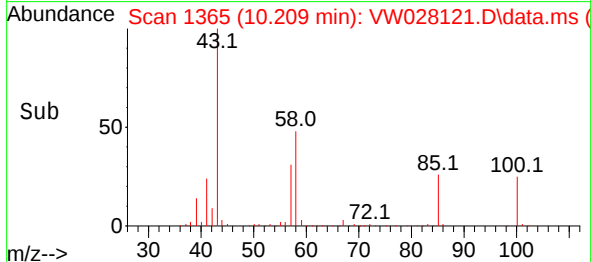
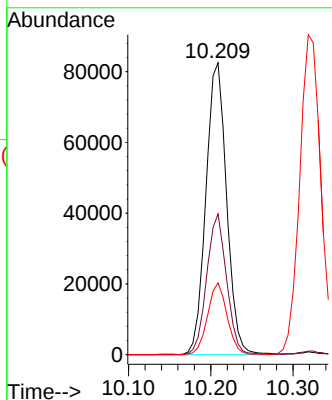
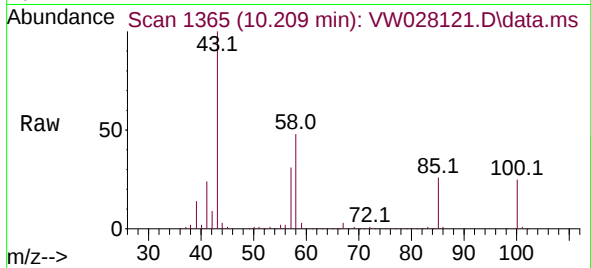
Tgt Ion: 43 Resp: 144566

Ion Ratio Lower Upper

43 100

58 46.3 37.8 56.8

100 23.2 18.2 27.4



#44

trans-1,3-Dichloropropene

Concen: 18.190 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW028121.D

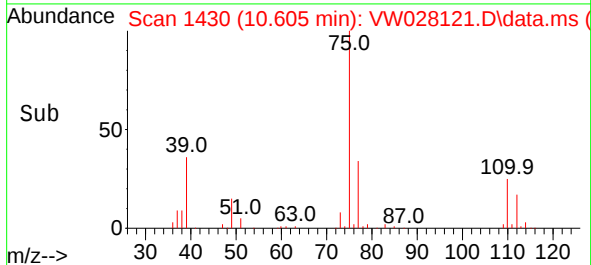
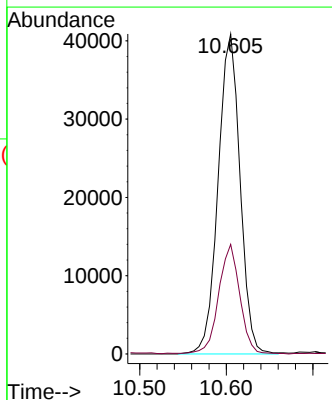
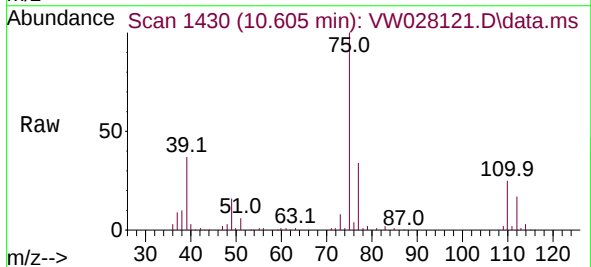
Acq: 07 Mar 2024 12:45

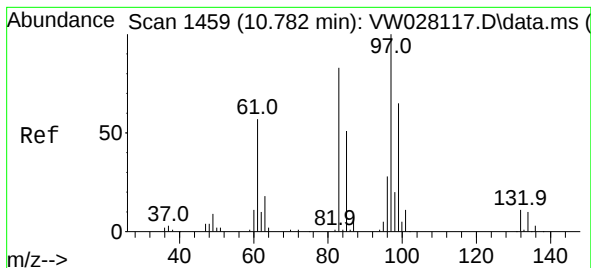
Tgt Ion: 75 Resp: 71853

Ion Ratio Lower Upper

75 100

77 34.3 22.9 42.5





#45

1,1,2-Trichloroethane

Concen: 22.165 ug/L

RT: 10.788 min Scan# 1459

Delta R.T. 0.006 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 54965

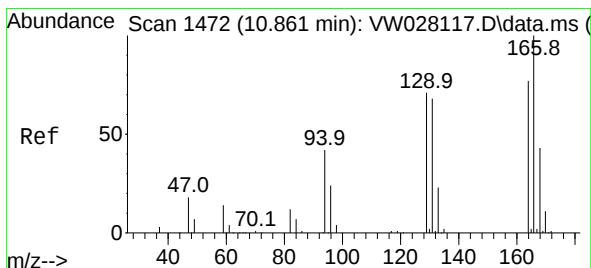
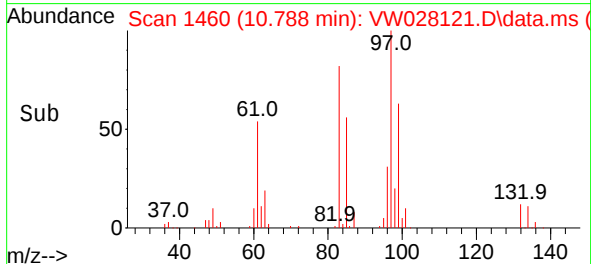
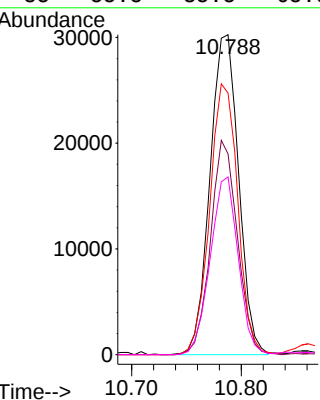
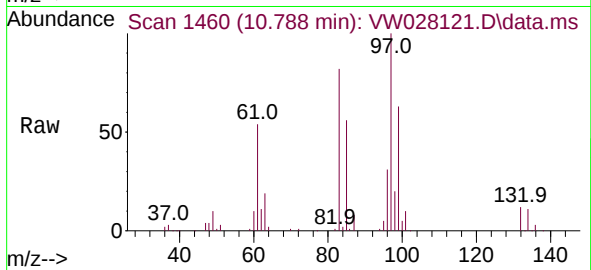
Ion Ratio Lower Upper

97 100

99 62.8 41.9 77.7

83 81.7 56.1 104.1

85 55.5 35.5 65.9



#46

Tetrachloroethene

Concen: 22.541 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Tgt Ion:164 Resp: 70284

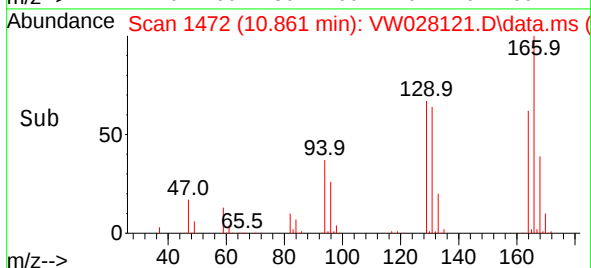
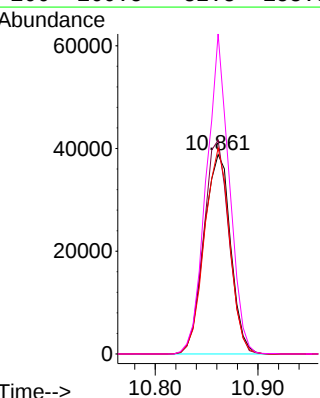
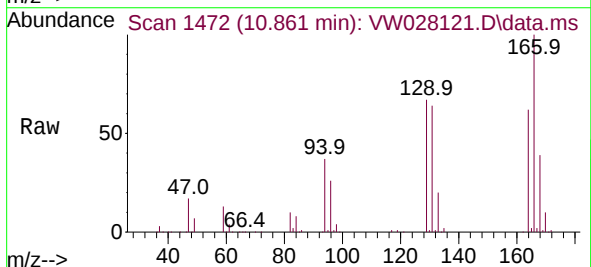
Ion Ratio Lower Upper

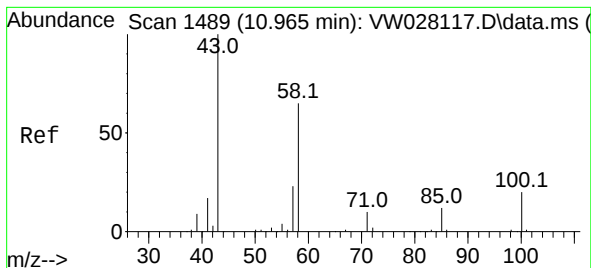
164 100

129 107.2 65.2 121.0

131 103.3 66.2 123.0

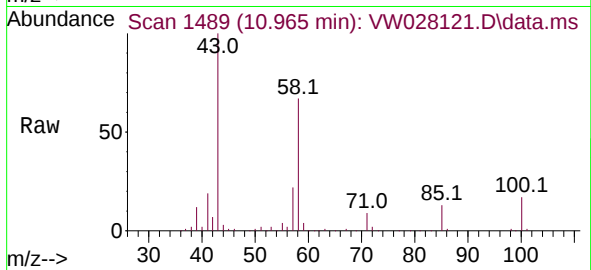
166 160.5 82.8 153.8#



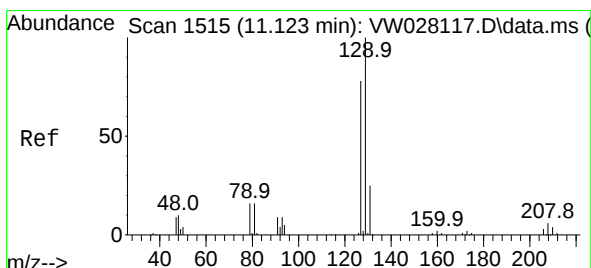
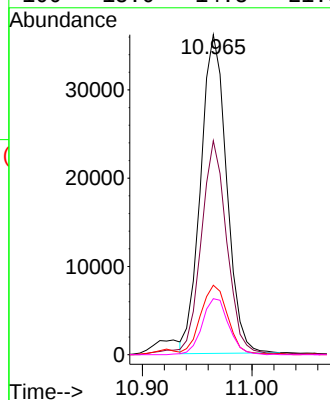
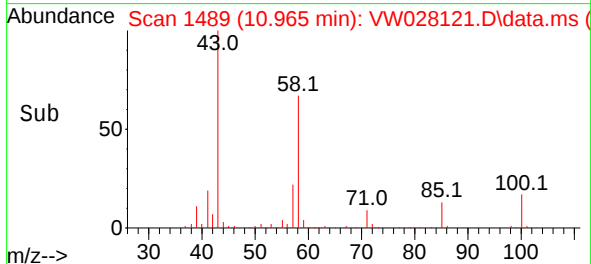


#48
2-Hexanone
Concen: 62.742 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Instrument :
MSVOA_W
ClientSampleId :

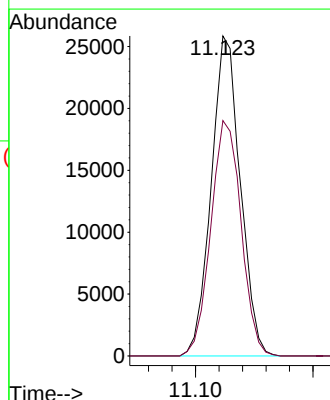
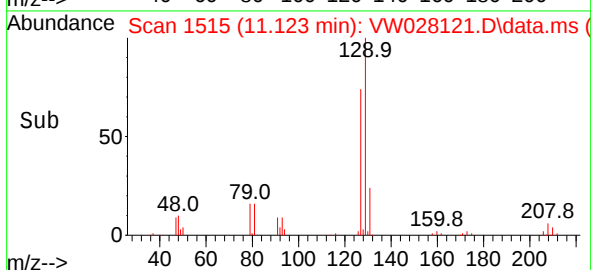
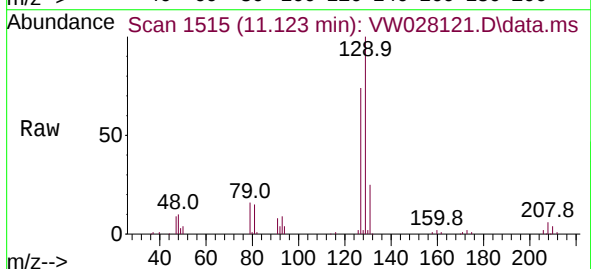


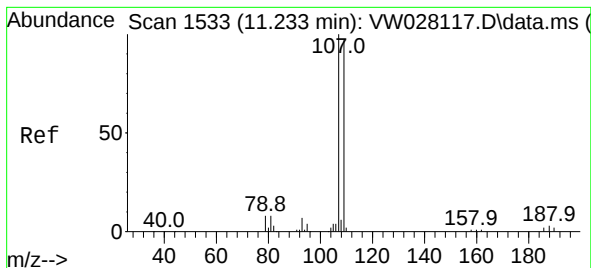
Tgt Ion: 43 Resp: 59580
Ion Ratio Lower Upper
43 100
58 65.3 51.8 77.8
57 22.9 18.2 27.4
100 18.0 14.3 21.5



#49
Dibromochloromethane
Concen: 15.381 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion: 129 Resp: 44339
Ion Ratio Lower Upper
129 100
127 73.5 57.1 106.1





#50

1,2-Dibromoethane

Concen: 9.375 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

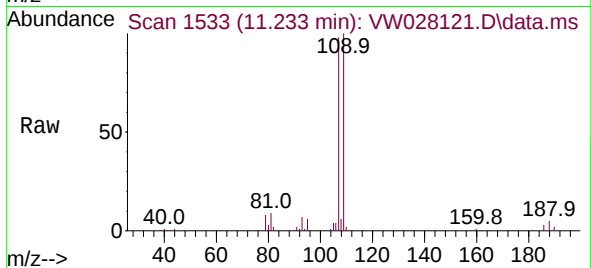
Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :



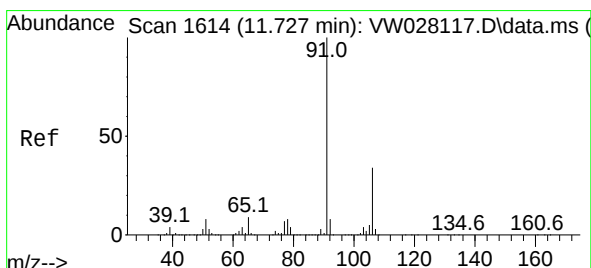
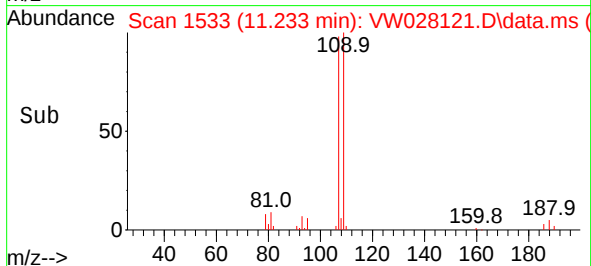
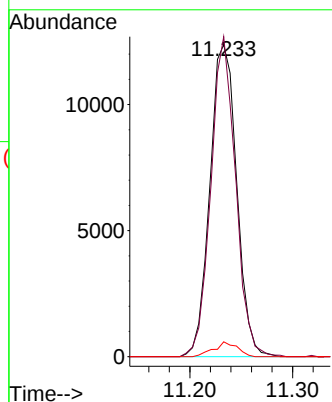
Tgt Ion:107 Resp: 22391

Ion Ratio Lower Upper

107 100

109 102.6 67.5 125.3

188 4.8 3.1 4.7#



#52

Ethylbenzene

Concen: 38.488 ug/L

RT: 11.727 min Scan# 1614

Delta R.T. -0.000 min

Lab File: VW028121.D

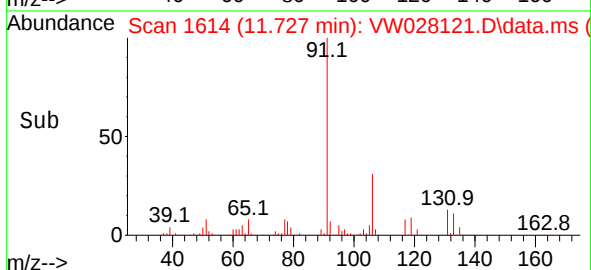
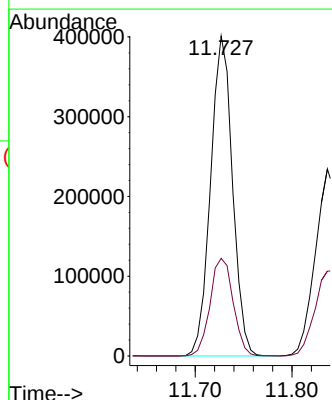
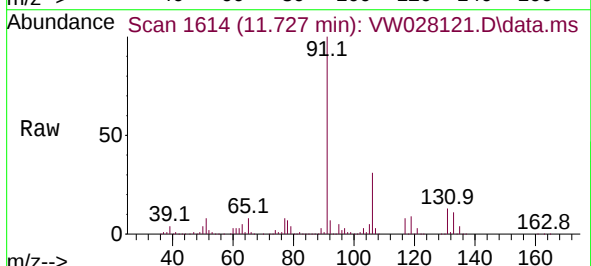
Acq: 07 Mar 2024 12:45

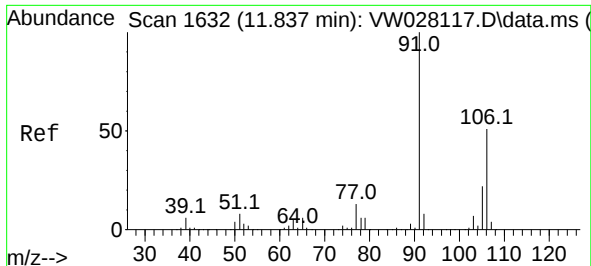
Tgt Ion: 91 Resp: 631318

Ion Ratio Lower Upper

91 100

106 30.5 23.8 44.2





#53

m,p-Xylene

Concen: 32.362 ug/L

RT: 11.843 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

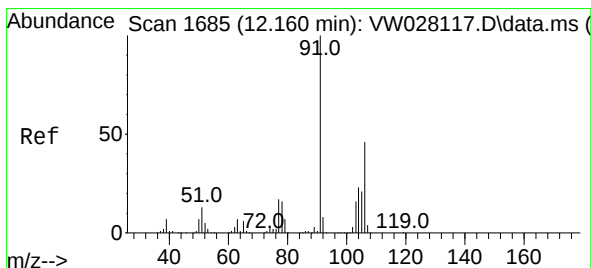
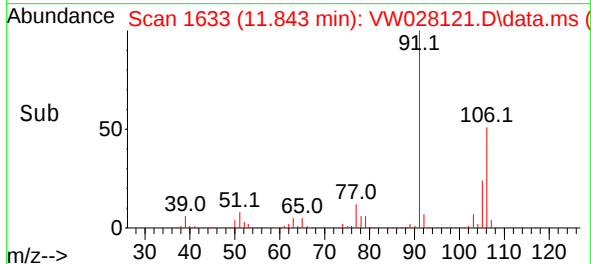
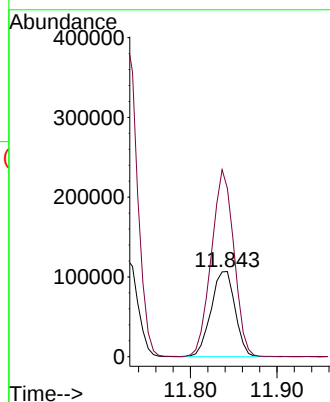
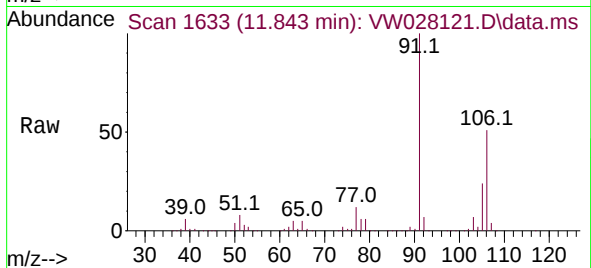
ClientSampleId :

Tgt Ion:106 Resp: 205956

Ion Ratio Lower Upper

106 100

91 197.9 139.7 259.4



#54

o-Xylene

Concen: 4.338 ug/L

RT: 12.166 min Scan# 1686

Delta R.T. 0.006 min

Lab File: VW028121.D

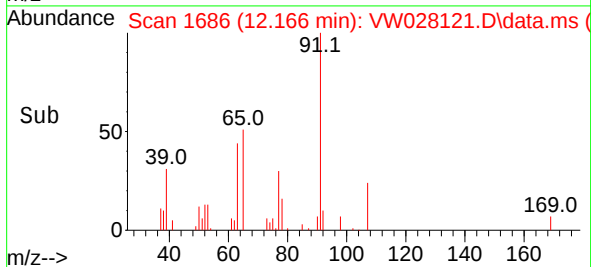
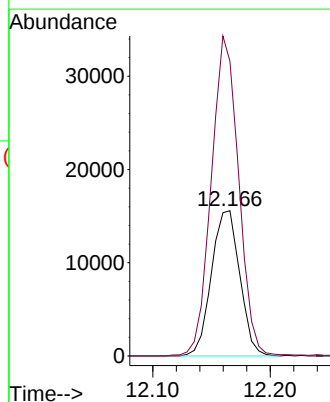
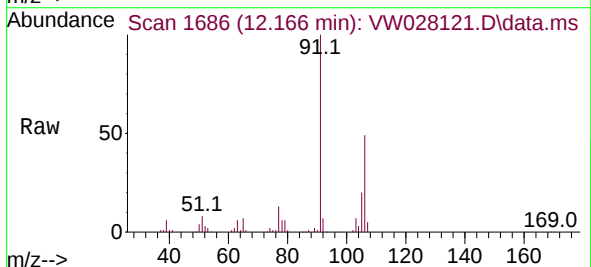
Acq: 07 Mar 2024 12:45

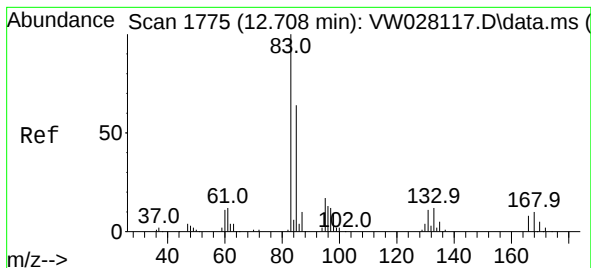
Tgt Ion:106 Resp: 26125

Ion Ratio Lower Upper

106 100

91 202.9 145.2 269.6

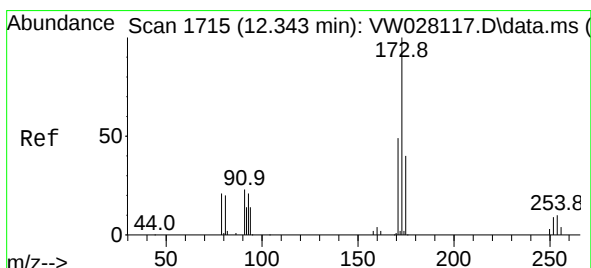
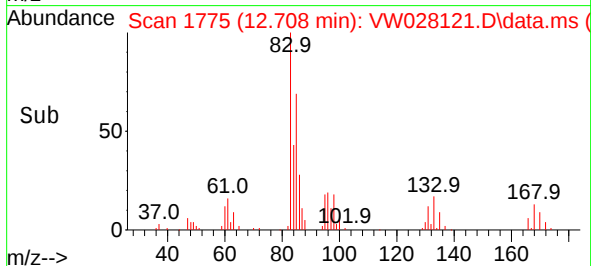
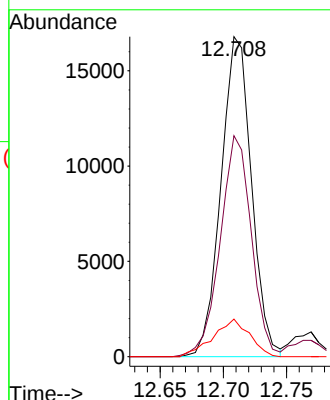
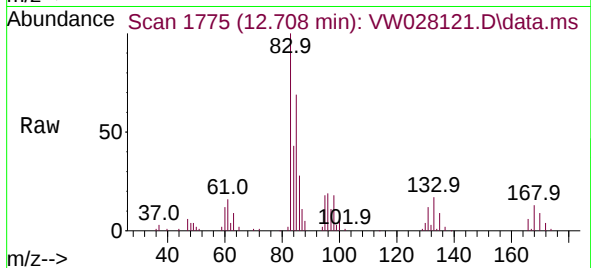




#57
1,1,2,2-Tetrachloroethane
Concen: 10.529 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

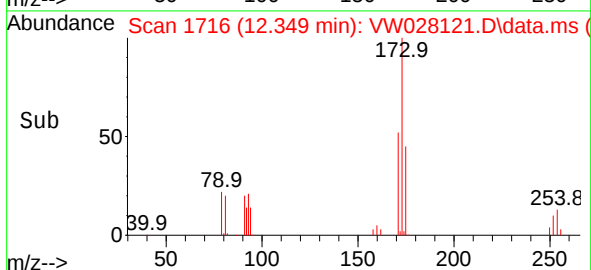
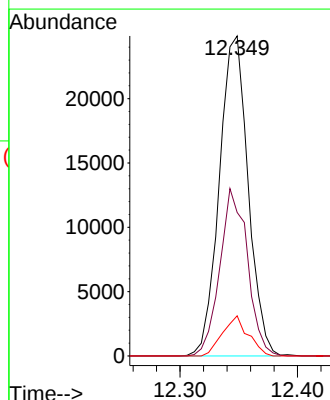
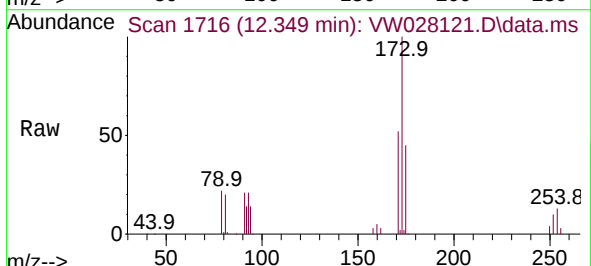
Instrument :
MSVOA_W
ClientSampleId :

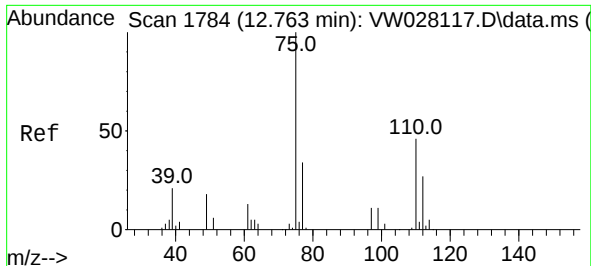
Tgt Ion: 83 Resp: 28154
Ion Ratio Lower Upper
83 100
85 69.0 45.7 84.9
131 11.8 9.7 14.5



#59
Bromoform
Concen: 25.540 ug/L
RT: 12.349 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VW028121.D
Acq: 07 Mar 2024 12:45

Tgt Ion:173 Resp: 42392
Ion Ratio Lower Upper
173 100
175 50.1 37.2 55.8
254 11.2 8.5 12.7





#61

1,2,3-Trichloropropane

Concen: 40.825 ug/L

RT: 12.763 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

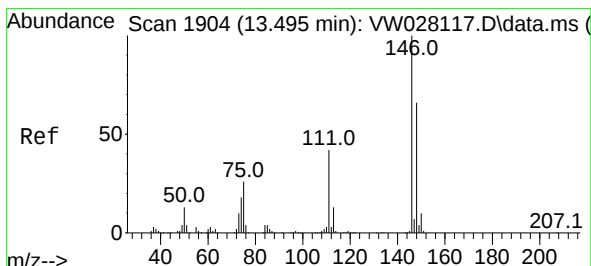
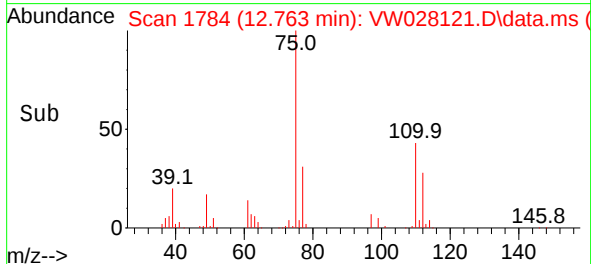
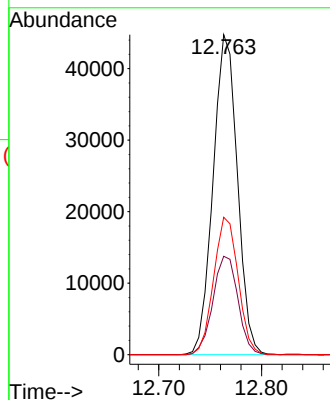
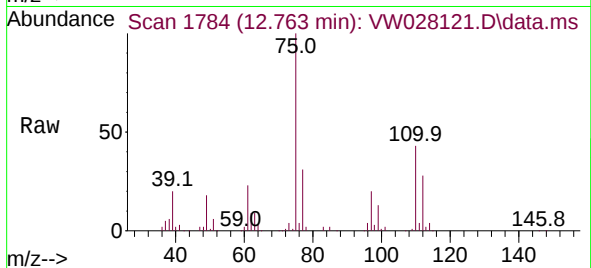
Tgt Ion: 75 Resp: 73478

Ion Ratio Lower Upper

75 100

77 31.8 25.9 38.9

110 43.3 34.1 51.1



#64

1,3-Dichlorobenzene

Concen: 32.762 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

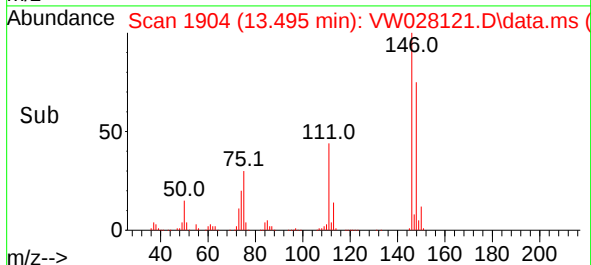
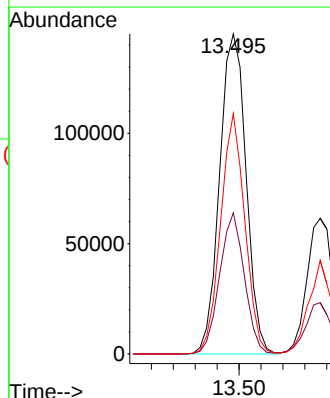
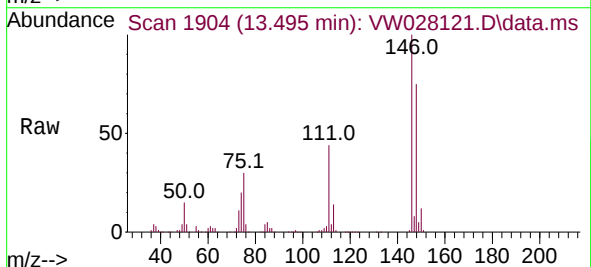
Tgt Ion:146 Resp: 243208

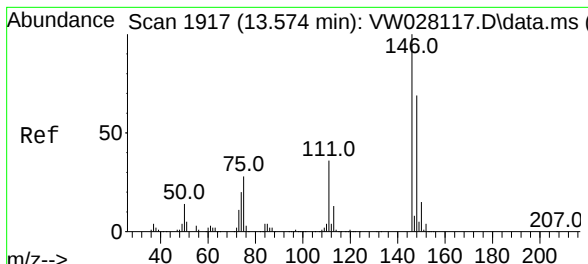
Ion Ratio Lower Upper

146 100

111 44.1 27.9 51.9

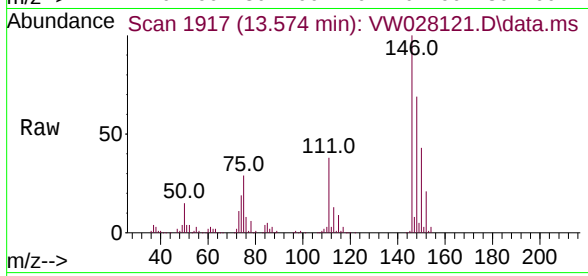
148 75.1 38.7 71.9#





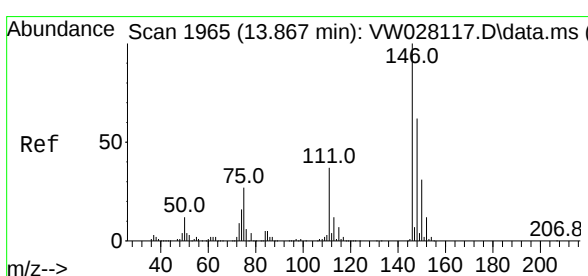
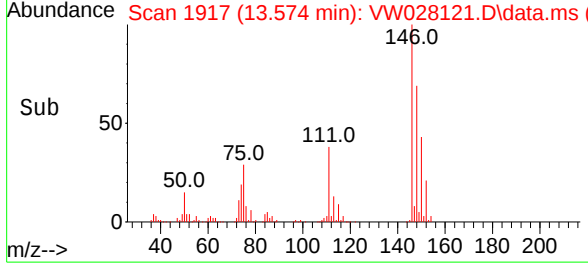
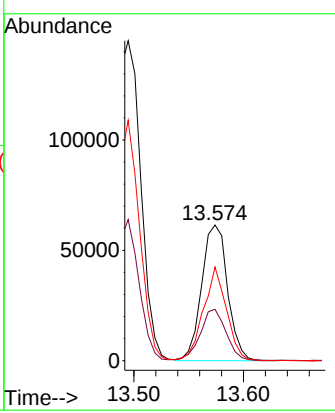
#65
 1,4-Dichlorobenzene
 Concen: 13.503 ug/L
 RT: 13.574 min Scan# 1917
 Delta R.T. -0.000 min
 Lab File: VW028121.D
 Acq: 07 Mar 2024 12:45

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:146 Resp: 101201

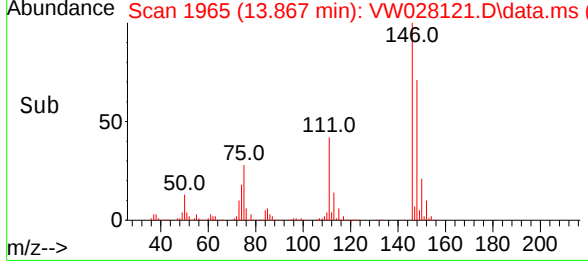
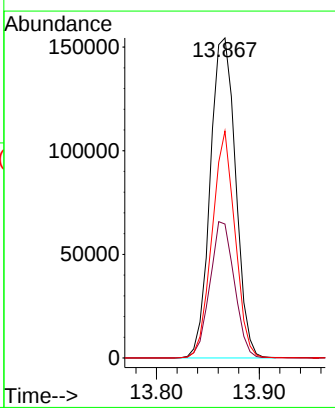
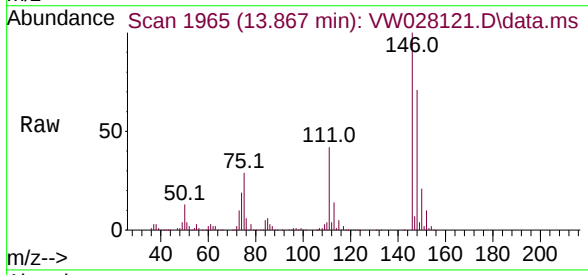
Ion	Ratio	Lower	Upper
146	100		
111	37.8	29.3	54.5
148	69.0	47.5	88.1

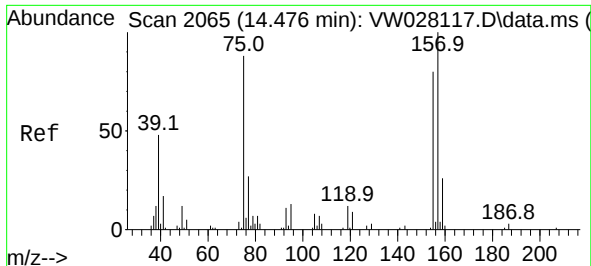


#67
 1,2-Dichlorobenzene
 Concen: 39.606 ug/L
 RT: 13.867 min Scan# 1965
 Delta R.T. -0.000 min
 Lab File: VW028121.D
 Acq: 07 Mar 2024 12:45

Tgt Ion:146 Resp: 264845

Ion	Ratio	Lower	Upper
146	100		
111	41.9	35.4	53.0
148	70.9	55.4	83.2





#68

1,2-Dibromo-3-chloropropane

Concen: 16.610 ug/L

RT: 14.482 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Instrument :

MSVOA_W

ClientSampleId :

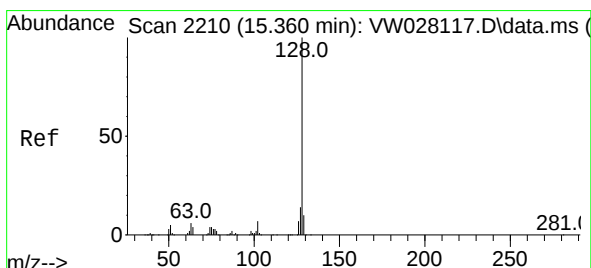
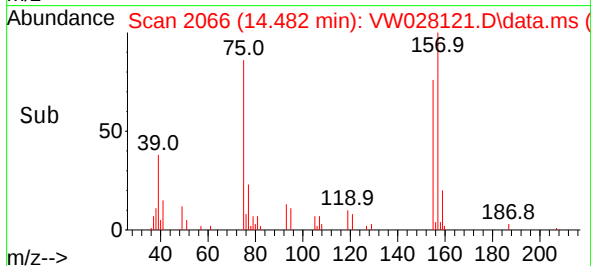
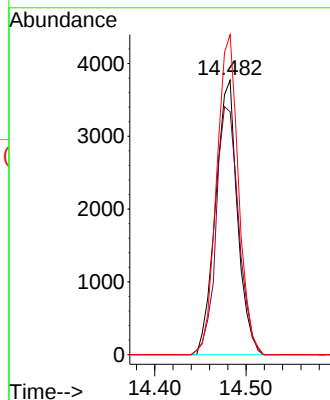
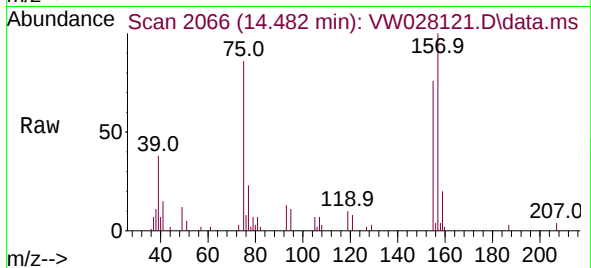
Tgt Ion: 75 Resp: 6279

Ion Ratio Lower Upper

75 100

155 88.5 69.3 103.9

157 116.6 82.4 123.6



#71

Naphthalene

Concen: 37.429 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VW028121.D

Acq: 07 Mar 2024 12:45

Tgt Ion:128 Resp: 269323

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.8 8.6 13.0

