

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW060624\
 Data File : VW029028.D
 Acq On : 06 Jun 2024 11:06
 Operator : SY/MD
 Sample : P2696-16DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 07 00:23:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM060324SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 07 00:21:46 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	330680	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	300089	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	146128	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	111430	21.211	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.840%
7) Chloroethane-d5	2.893	69	88916	22.042	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.160%
11) 1,1-Dichloroethene-d2	4.021	65	50652	21.937	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.760%
21) 2-Butanone-d5	7.081	46	61541	57.337	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.680%
24) Chloroform-d	7.648	84	233973	24.801	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.200%
26) 1,2-Dichloroethane-d4	8.307	65	124072	24.981	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.920%
32) Benzene-d6	8.276	84	440548	23.919	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.680%
36) 1,2-Dichloropropane-d6	9.270	67	136312	24.409	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.640%
41) Toluene-d8	10.319	98	404303	24.598	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.400%
43) trans-1,3-Dichloroprop...	10.575	79	53021	24.708	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.840%
47) 2-Hexanone-d5	10.922	63	43799	59.433	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	118.860%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	105733	27.254	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	109.000%
66) 1,2-Dichlorobenzene-d4	13.848	152	129294	24.934	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.720%
Target Compounds						
					Qvalue	
13) Acetone	4.119	43	41627	37.008	ug/L	99
16) Methylene chloride	4.923	84	194025	39.095	ug/L	98
17) trans-1,2-Dichloroethene	5.423	96	64637	14.183	ug/L	98
18) Methyl tert-butyl Ether	5.429	73	135216	21.277	ug/L	99
19) 1,1-Dichloroethane	6.216	63	377762	42.162	ug/L	99
22) 2-Butanone	7.167	43	162790	120.106	ug/L	96
25) Chloroform	7.679	83	378422	43.486	ug/L	96
31) Carbon tetrachloride	8.075	117	49787	7.861	ug/L	97
33) Benzene	8.325	78	601930	32.259	ug/L	100
34) Trichloroethene	9.087	95	230609	47.009	ug/L	97
37) 1,2-Dichloropropane	9.368	63	91325	18.690	ug/L	100
39) cis-1,3-Dichloropropene	10.069	75	225283	31.725	ug/L	94
40) 4-Methyl-2-pentanone	10.209	43	213066	85.728	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	207515	36.248	ug/L	96
45) 1,1,2-Trichloroethane	10.782	97	82123	24.885	ug/L	96
48) 2-Hexanone	10.922	43	5714	3.066	ug/L	# 45
50) 1,2-Dibromoethane	11.233	107	72351	24.017	ug/L	97
53) m,p-Xylene	11.831	106	198185	24.705	ug/L	83
54) o-Xylene	12.160	106	244738	32.948	ug/L	93

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Quant Title : SFAM01.0
QLast Update : Fri Jun 07 00:21:46 2024
Response via : Initial Calibration

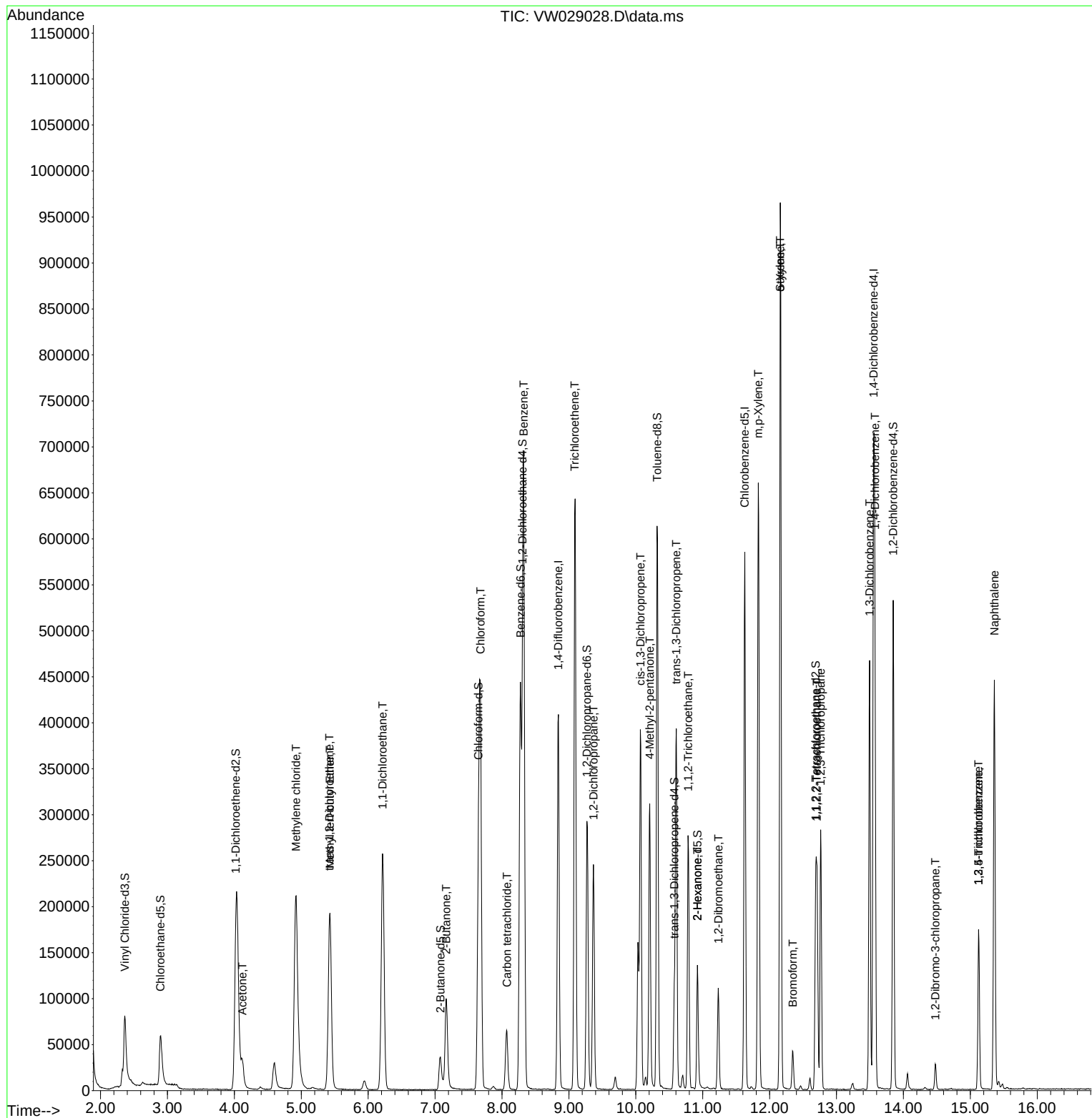
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	12.160	104	13147	1.027	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	101283	27.187	ug/L	98
59) Bromoform	12.349	173	18640	9.920	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	115575	41.930	ug/L	100
64) 1,3-Dichlorobenzene	13.495	146	176279	19.835	ug/L	95
65) 1,4-Dichlorobenzene	13.574	146	183884	19.811	ug/L	86
68) 1,2-Dibromo-3-chloropr...	14.476	75	7445	12.672	ug/L	94
69) 1,3,5-Trichlorobenzene	15.123	180	50052	8.203	ug/L	99
70) 1,2,4-trichlorobenzene	15.123	180	50052	10.121	ug/L	98
71) Naphthalene	15.360	128	358343	42.527	ug/L	99

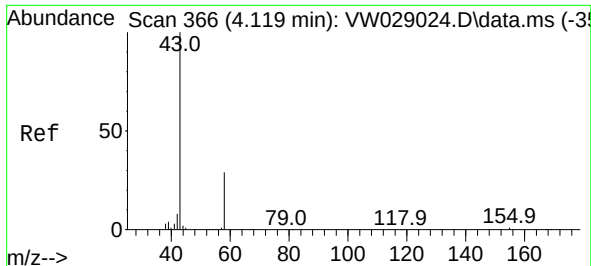
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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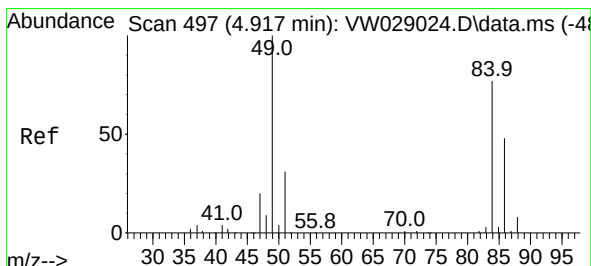
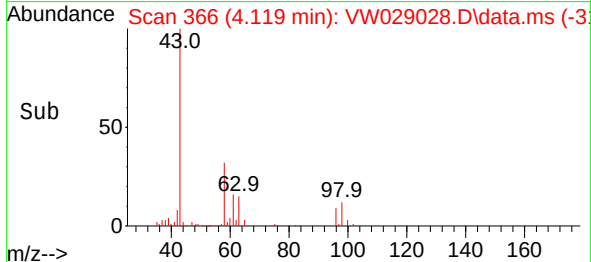
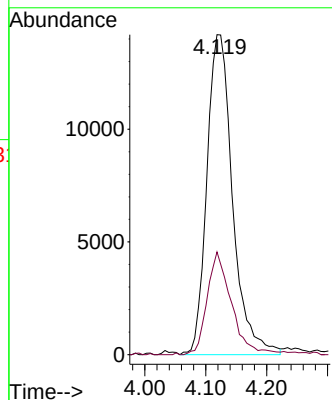
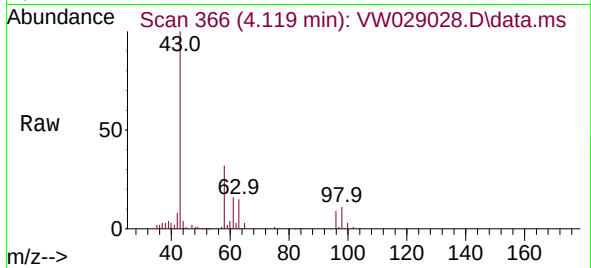




#13
Acetone
Concen: 37.008 ug/L
RT: 4.119 min Scan# 366
Delta R.T. -0.000 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

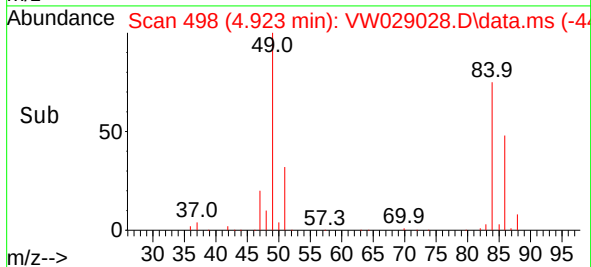
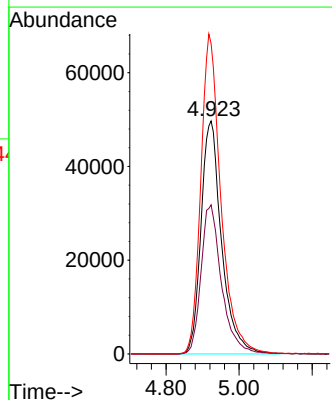
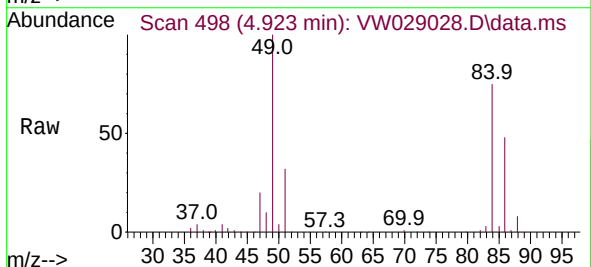
Instrument :
MSVOA_W
ClientSampleId :

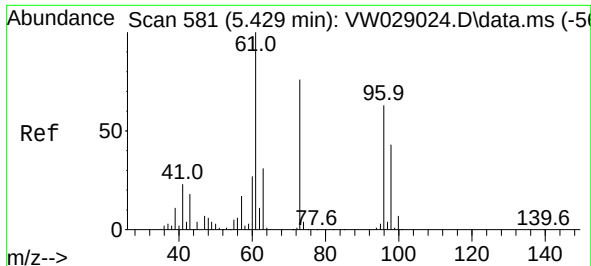
Tgt Ion: 43 Resp: 41627
Ion Ratio Lower Upper
43 100
58 29.4 0.0 59.4



#16
Methylene chloride
Concen: 39.095 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.006 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

Tgt Ion: 84 Resp: 194025
Ion Ratio Lower Upper
84 100
86 64.1 43.8 81.4
49 133.3 91.3 169.5

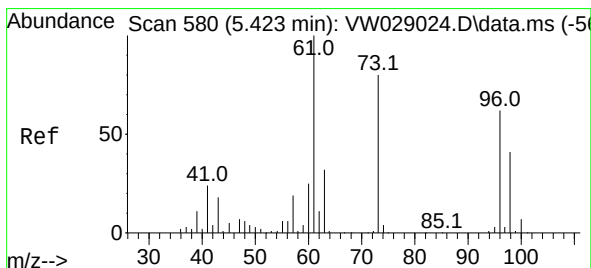
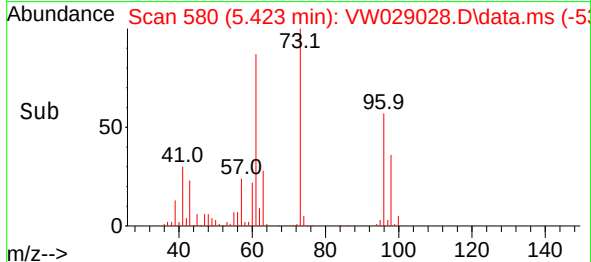
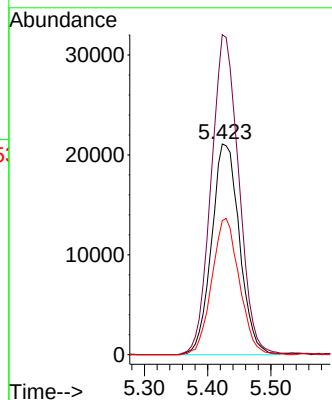
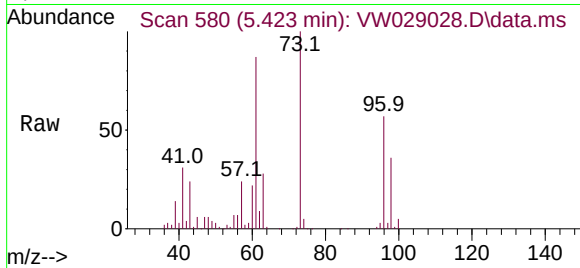




#17
trans-1,2-Dichloroethene
Concen: 14.183 ug/L
RT: 5.423 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

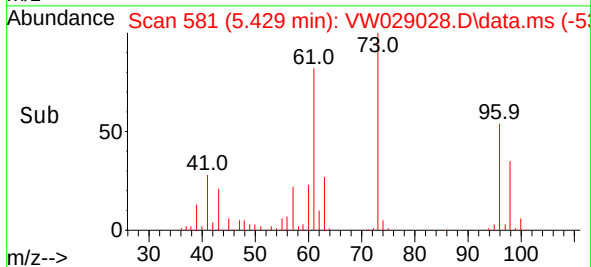
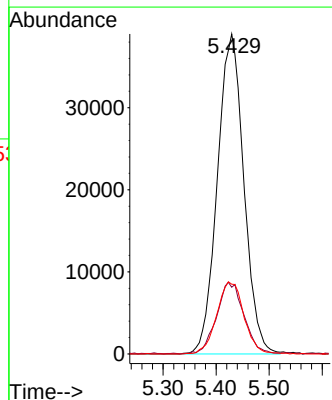
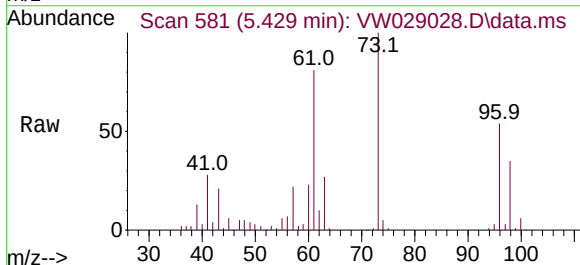
Instrument :
MSVOA_W
ClientSampleId :

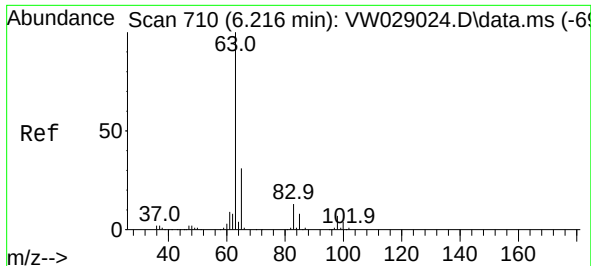
Tgt Ion: 96 Resp: 64637
Ion Ratio Lower Upper
96 100
61 151.8 104.6 194.2
98 63.5 44.0 81.8



#18
Methyl tert-butyl Ether
Concen: 21.277 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.006 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

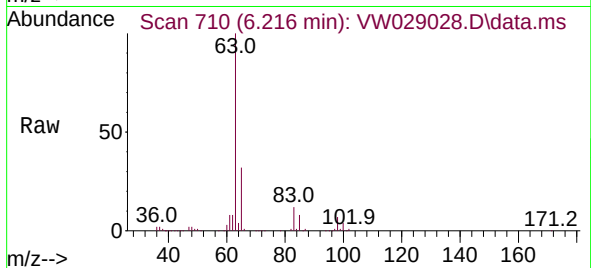
Tgt Ion: 73 Resp: 135216
Ion Ratio Lower Upper
73 100
43 23.1 17.8 26.6
57 23.1 18.4 27.6



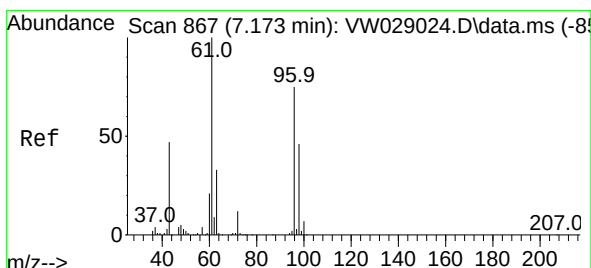
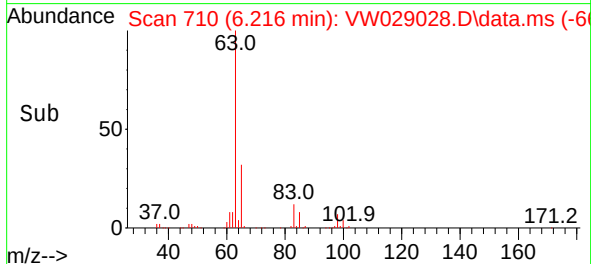
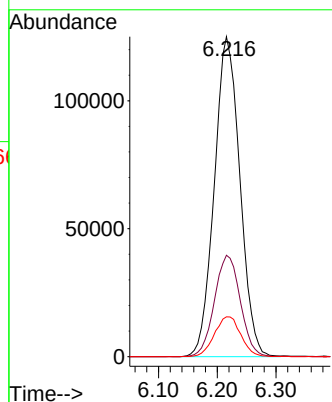


#19
1,1-Dichloroethane
Concen: 42.162 ug/L
RT: 6.216 min Scan# 710
Delta R.T. -0.000 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

Instrument :
MSVOA_W
ClientSampleId :

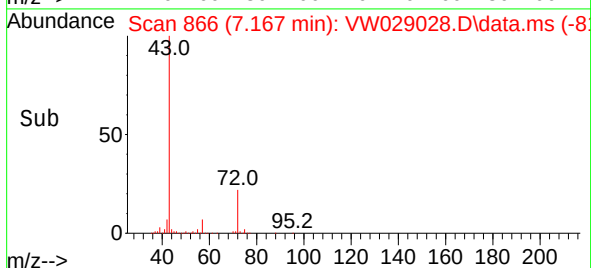
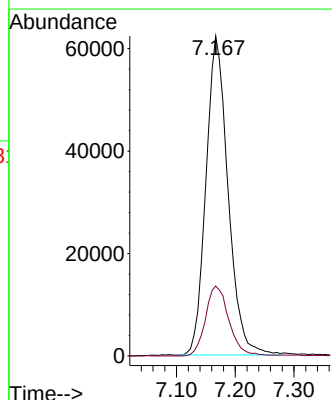
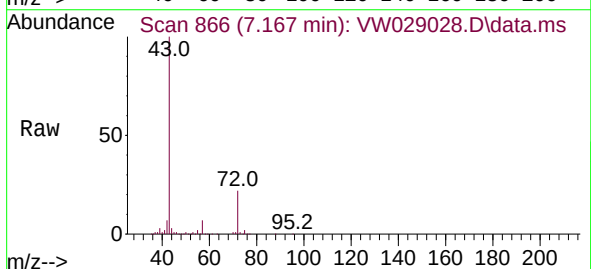


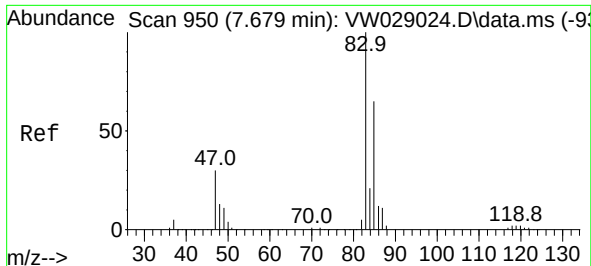
Tgt Ion: 63 Resp: 377762
Ion Ratio Lower Upper
63 100
65 31.7 21.8 40.6
83 12.4 8.8 16.3



#22
2-Butanone
Concen: 120.106 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.006 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

Tgt Ion: 43 Resp: 162790
Ion Ratio Lower Upper
43 100
72 23.2 12.5 37.5





#25

Chloroform

Concen: 43.486 ug/L

RT: 7.679 min Scan# 90

Delta R.T. -0.000 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

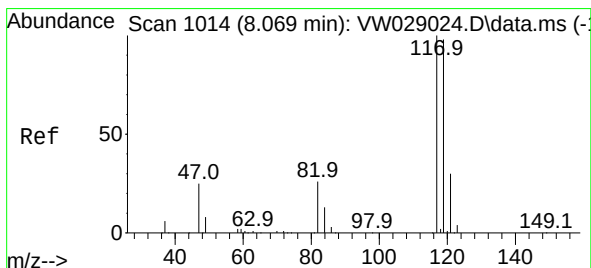
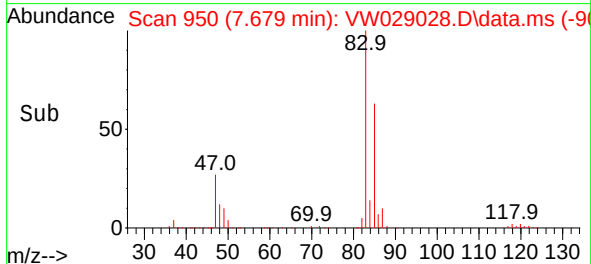
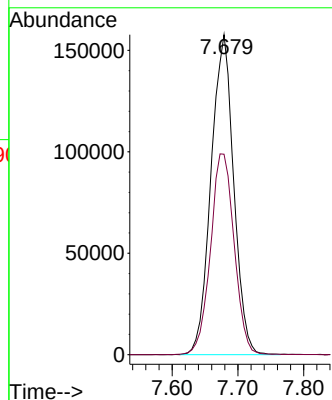
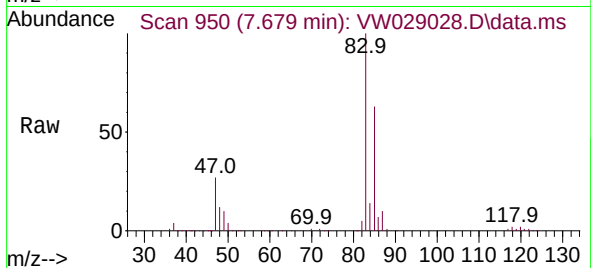
ClientSampleId :

Tgt Ion: 83 Resp: 378422

Ion Ratio Lower Upper

83 100

85 62.6 45.8 85.2



#31

Carbon tetrachloride

Concen: 7.861 ug/L

RT: 8.075 min Scan# 1015

Delta R.T. 0.006 min

Lab File: VW029028.D

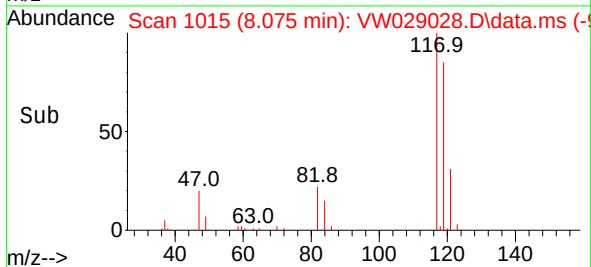
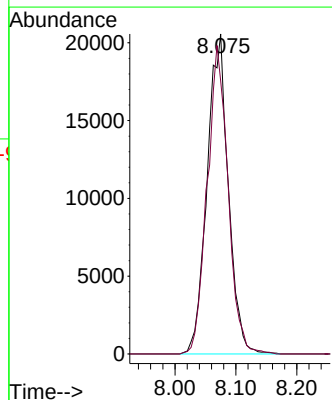
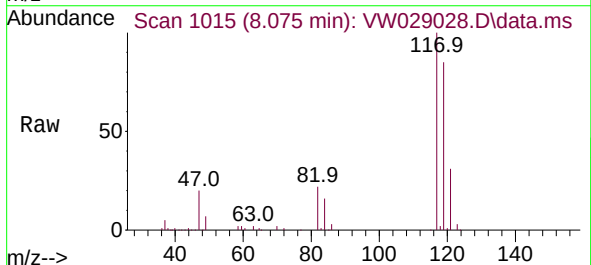
Acq: 06 Jun 2024 11:06

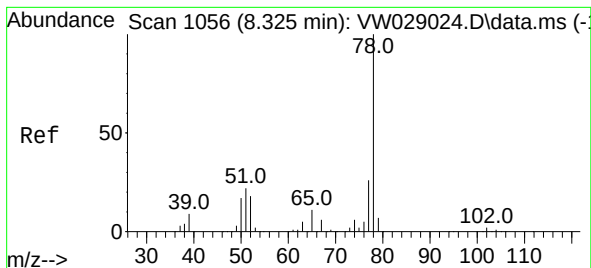
Tgt Ion: 117 Resp: 49787

Ion Ratio Lower Upper

117 100

119 95.1 78.8 118.2





#33

Benzene

Concen: 32.259 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VW029028.D

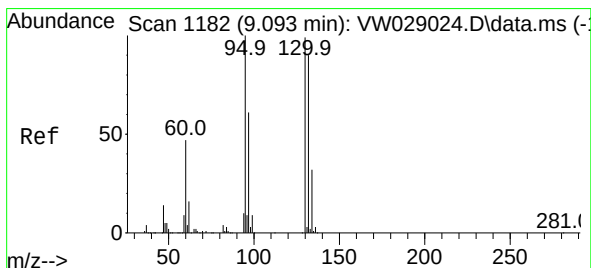
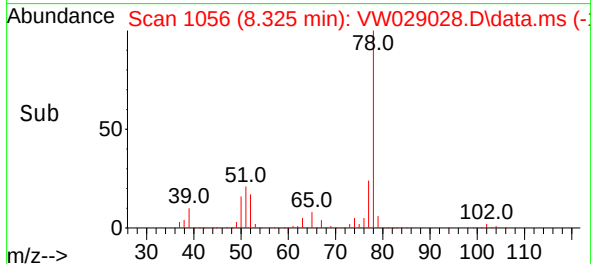
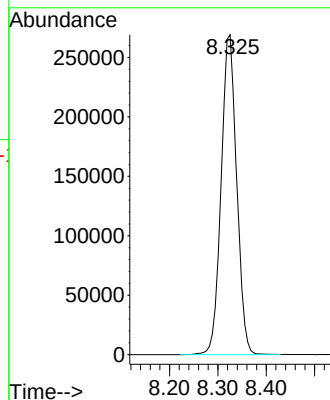
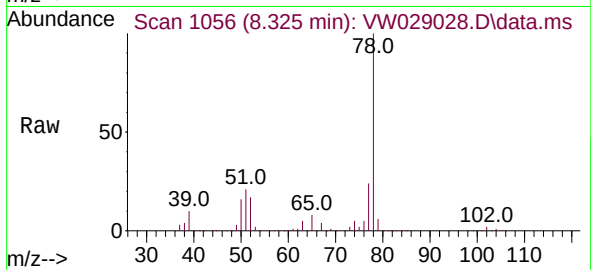
Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 601930



#34

Trichloroethene

Concen: 47.009 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.006 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Tgt Ion: 95 Resp: 230609

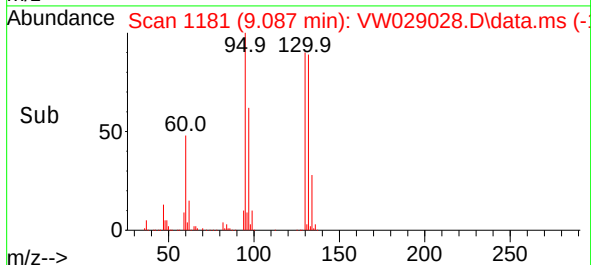
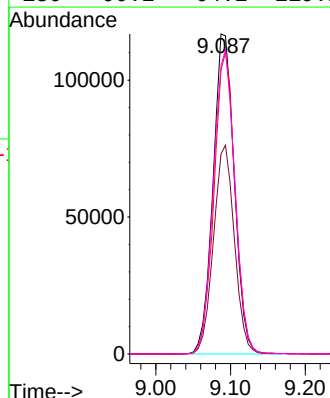
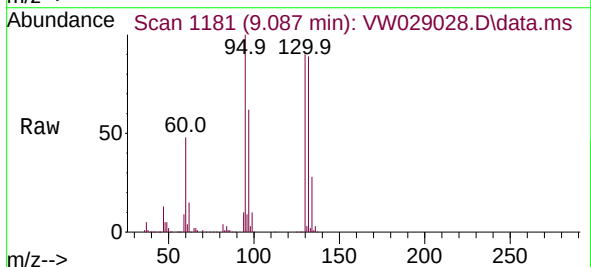
Ion Ratio Lower Upper

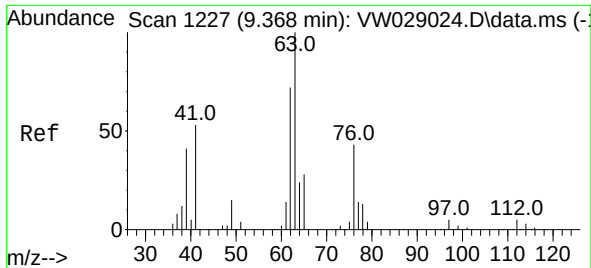
95 100

97 62.5 41.9 77.7

132 88.8 60.1 111.5

130 90.2 64.2 119.2





#37

1,2-Dichloropropane

Concen: 18.690 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

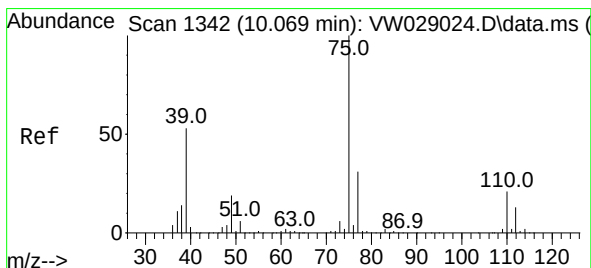
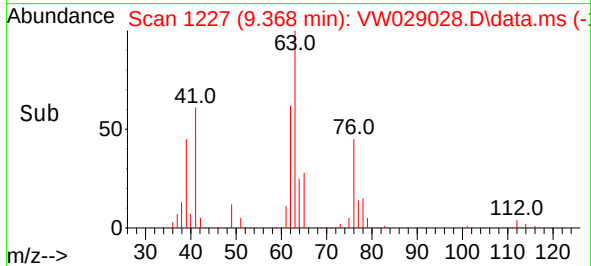
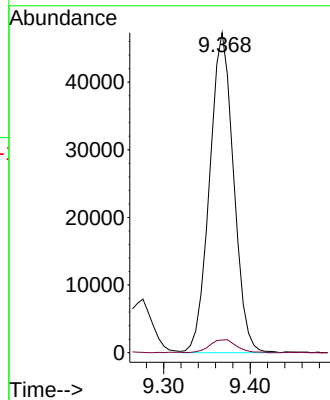
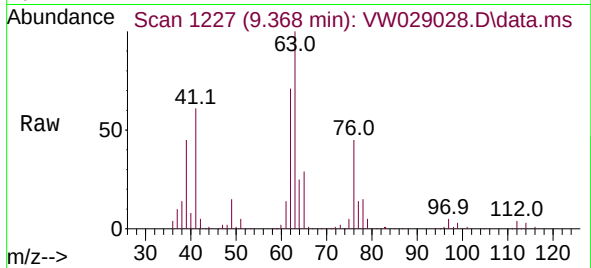
ClientSampleId :

Tgt Ion: 63 Resp: 91325

Ion Ratio Lower Upper

63 100

112 4.5 3.6 5.4



#39

cis-1,3-Dichloropropene

Concen: 31.725 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW029028.D

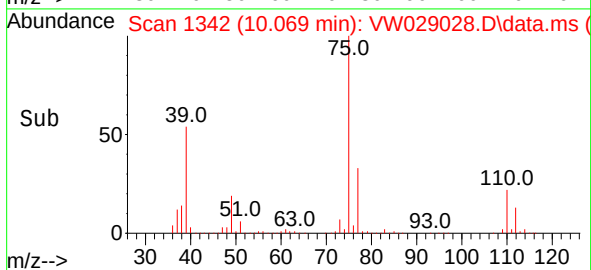
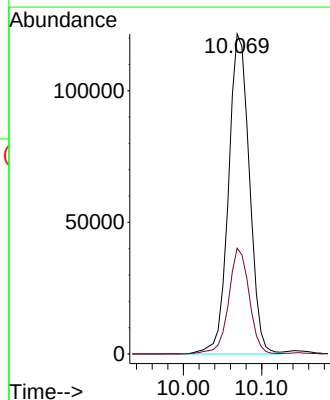
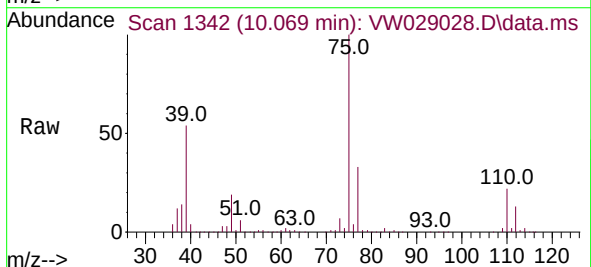
Acq: 06 Jun 2024 11:06

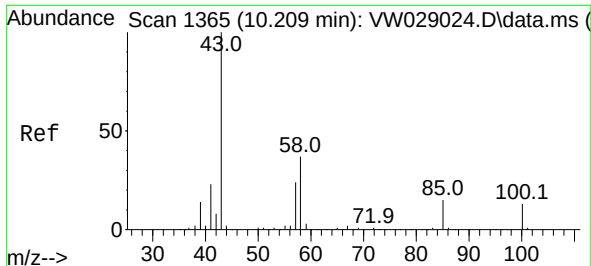
Tgt Ion: 75 Resp: 225283

Ion Ratio Lower Upper

75 100

77 33.0 21.0 39.0





#40

4-Methyl-2-pentanone

Concen: 85.728 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

ClientSampleId :

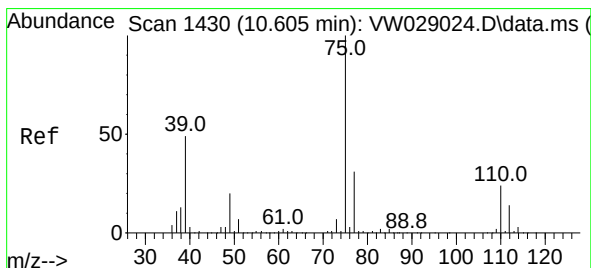
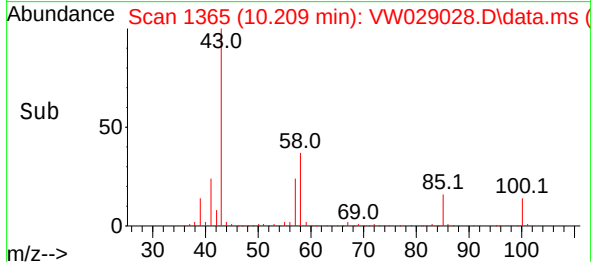
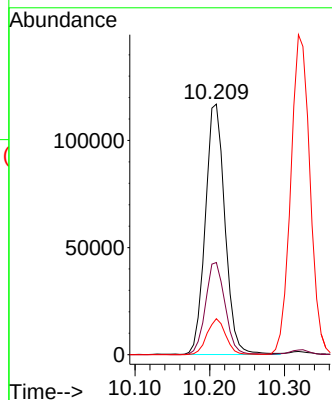
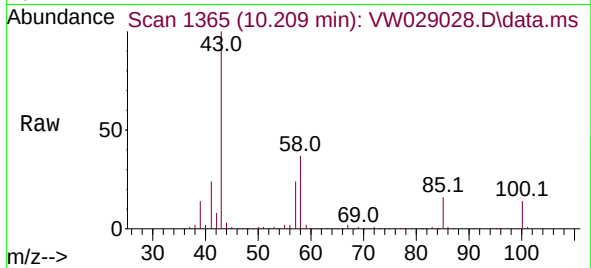
Tgt Ion: 43 Resp: 213066

Ion Ratio Lower Upper

43 100

58 36.9 30.3 45.5

100 13.8 10.7 16.1



#44

trans-1,3-Dichloropropene

Concen: 36.248 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW029028.D

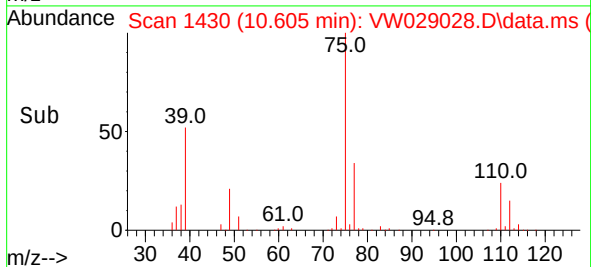
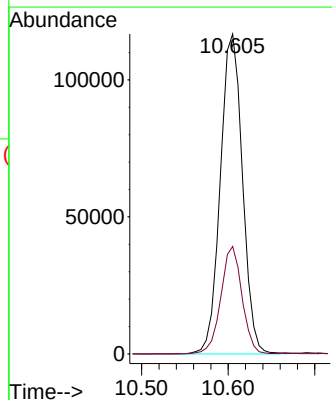
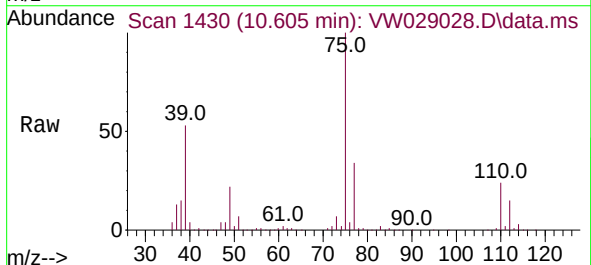
Acq: 06 Jun 2024 11:06

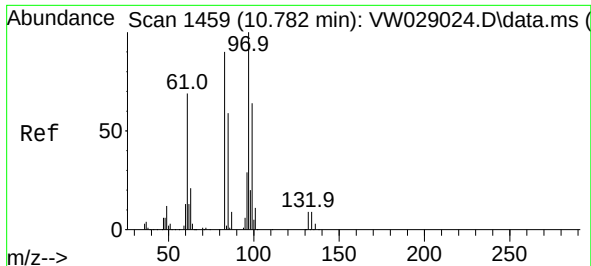
Tgt Ion: 75 Resp: 207515

Ion Ratio Lower Upper

75 100

77 33.6 22.0 40.8





#45

1,1,2-Trichloroethane

Concen: 24.885 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.000 min

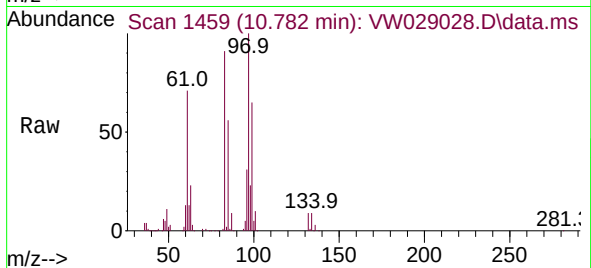
Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 97 Resp: 82123

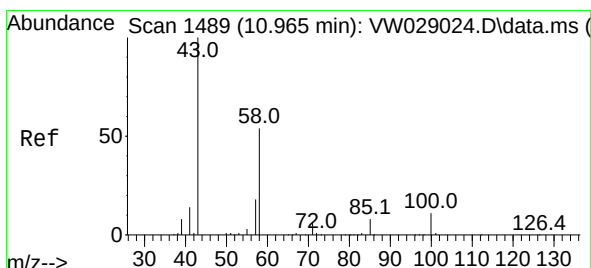
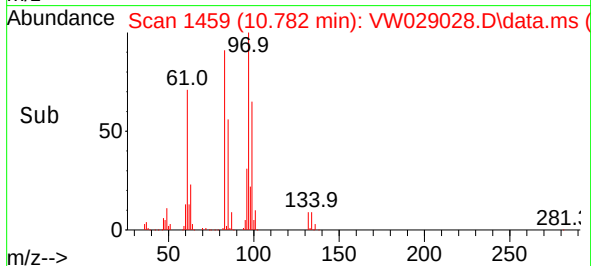
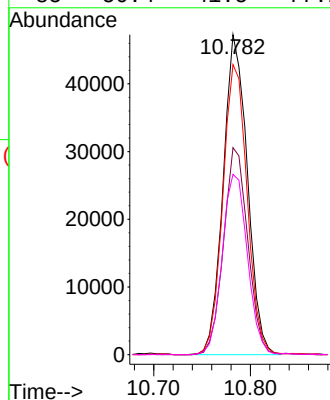
Ion Ratio Lower Upper

97 100

99 64.7 41.8 77.6

83 90.6 62.4 115.8

85 56.4 41.5 77.1



#48

2-Hexanone

Concen: 3.066 ug/L

RT: 10.922 min Scan# 1482

Delta R.T. -0.043 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Tgt Ion: 43 Resp: 5714

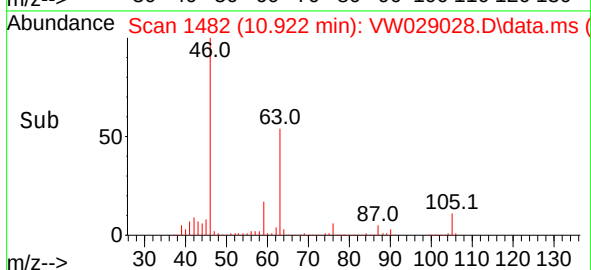
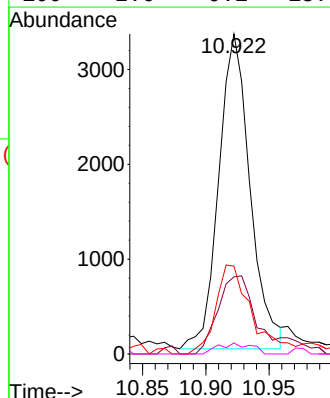
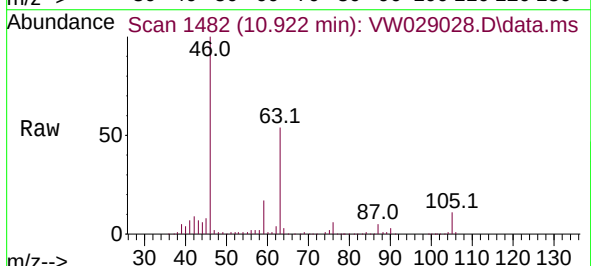
Ion Ratio Lower Upper

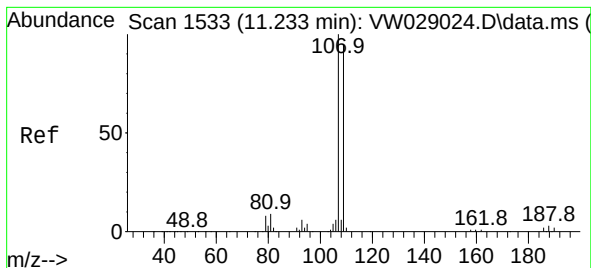
43 100

58 0.0 41.4 62.0#

57 27.6 14.2 21.4#

100 2.6 9.1 13.7#





#50

1,2-Dibromoethane

Concen: 24.017 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

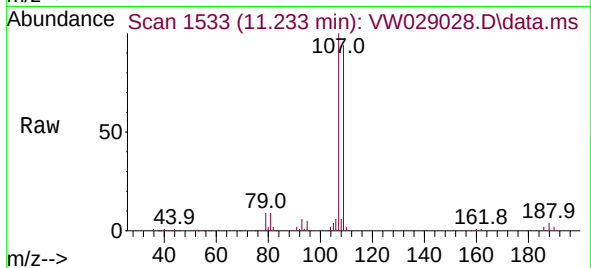
Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

ClientSampleId :



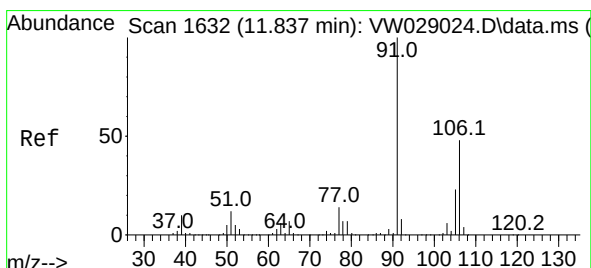
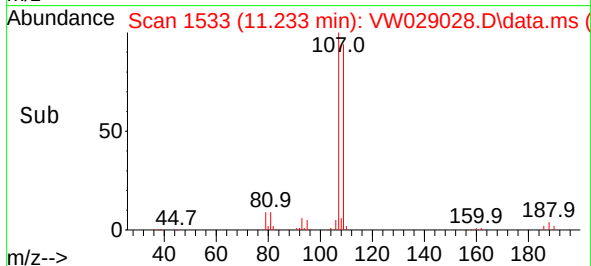
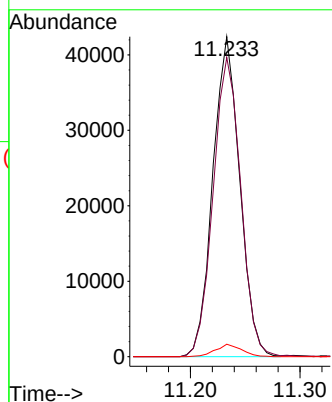
Tgt Ion:107 Resp: 72351

Ion Ratio Lower Upper

107 100

109 93.5 67.9 126.1

188 3.9 3.0 4.4



#53

m,p-Xylene

Concen: 24.705 ug/L

RT: 11.831 min Scan# 1631

Delta R.T. -0.006 min

Lab File: VW029028.D

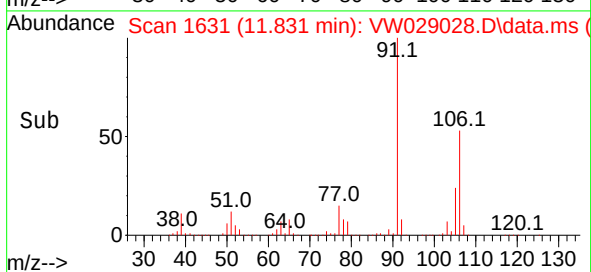
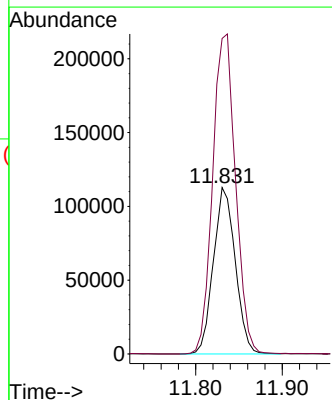
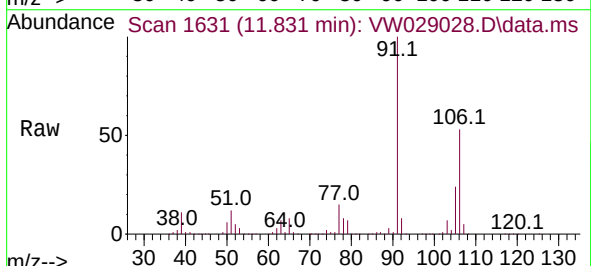
Acq: 06 Jun 2024 11:06

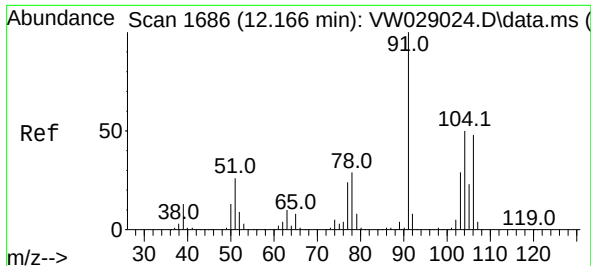
Tgt Ion:106 Resp: 198185

Ion Ratio Lower Upper

106 100

91 189.5 152.0 282.2





#54

o-Xylene

Concen: 32.948 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

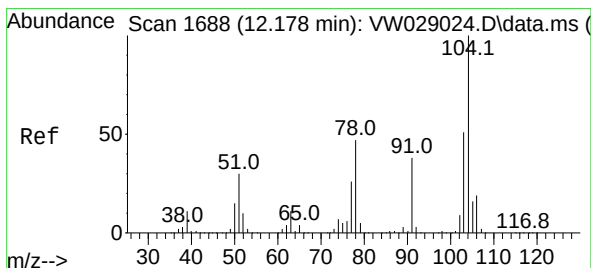
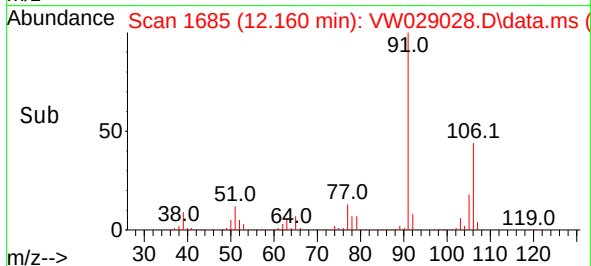
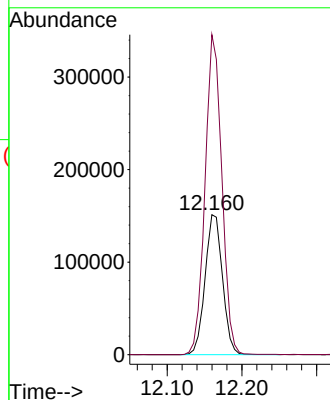
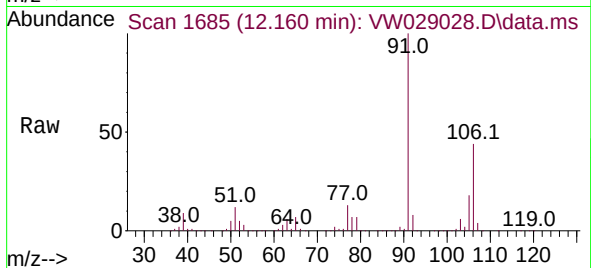
ClientSampleId :

Tgt Ion:106 Resp: 244738

Ion Ratio Lower Upper

106 100

91 228.5 152.5 283.3



#55

Styrene

Concen: 1.027 ug/L

RT: 12.160 min Scan# 1685

Delta R.T. -0.018 min

Lab File: VW029028.D

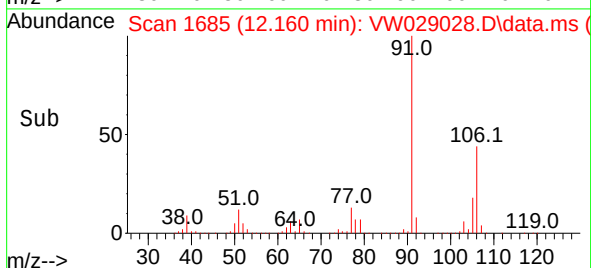
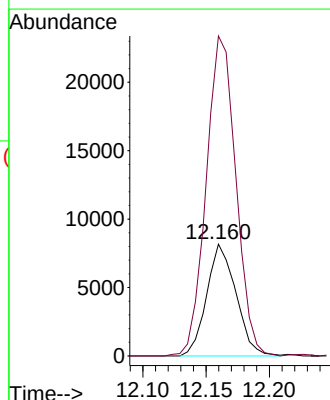
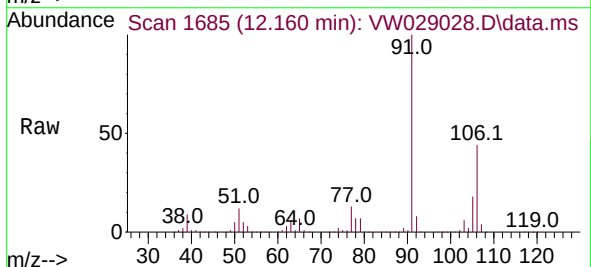
Acq: 06 Jun 2024 11:06

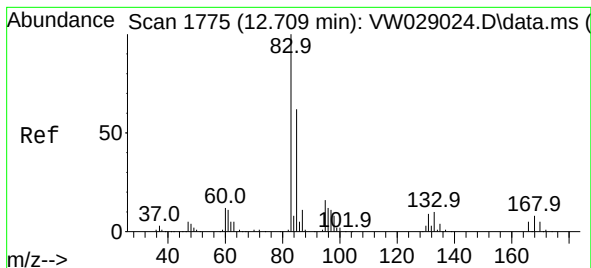
Tgt Ion:104 Resp: 13147

Ion Ratio Lower Upper

104 100

78 286.3 33.3 61.9#





#57

1,1,2,2-Tetrachloroethane

Concen: 27.187 ug/L

RT: 12.708 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

ClientSampleId :

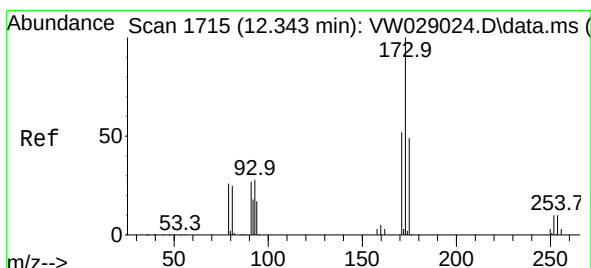
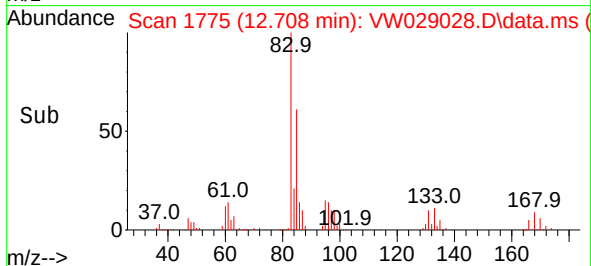
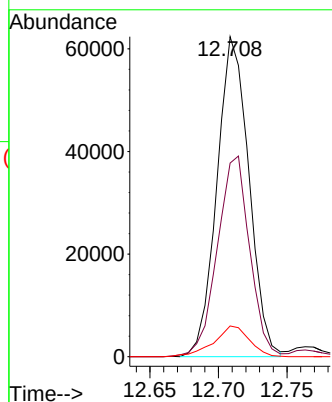
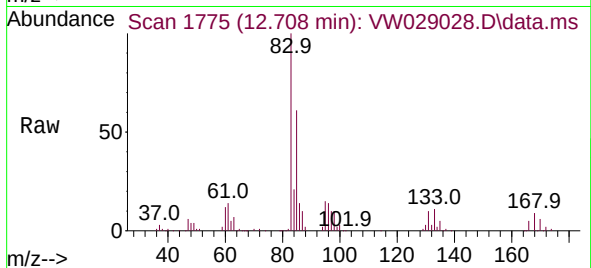
Tgt Ion: 83 Resp: 101283

Ion Ratio Lower Upper

83 100

85 60.5 43.8 81.3

131 9.6 7.3 10.9



#59

Bromoform

Concen: 9.920 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

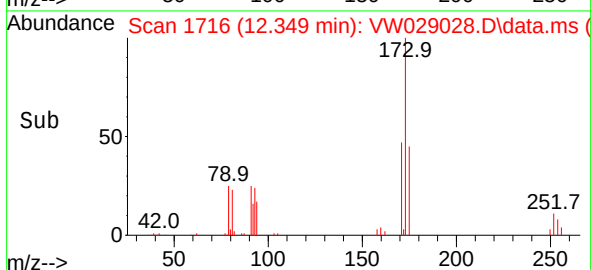
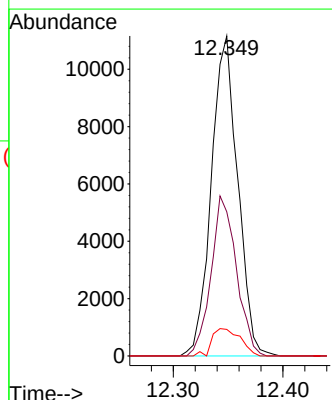
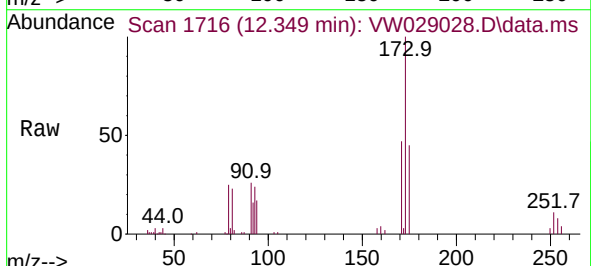
Tgt Ion:173 Resp: 18640

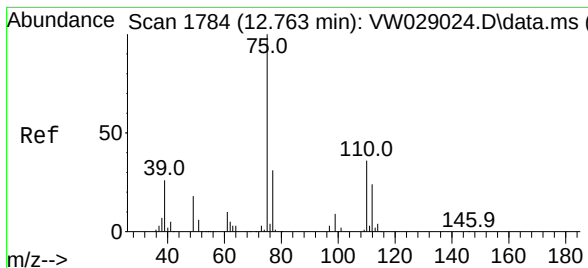
Ion Ratio Lower Upper

173 100

175 48.1 38.1 57.1

254 8.9 8.2 12.2

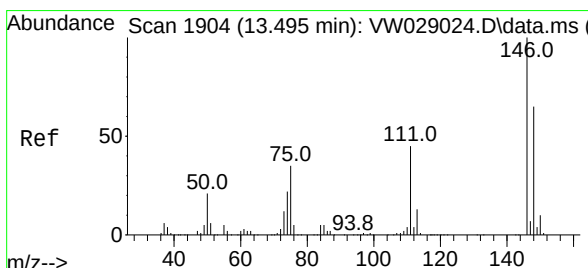
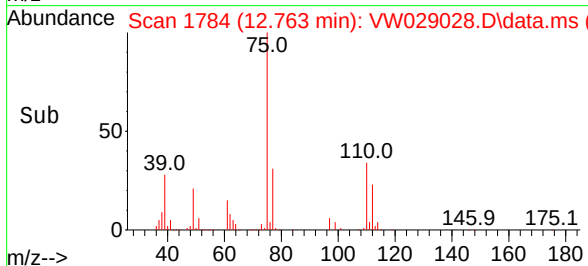
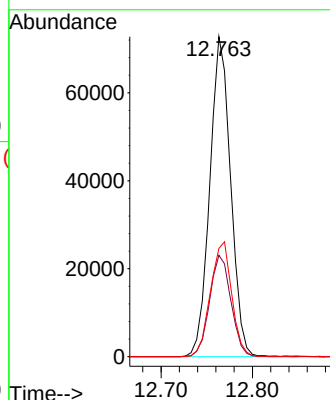
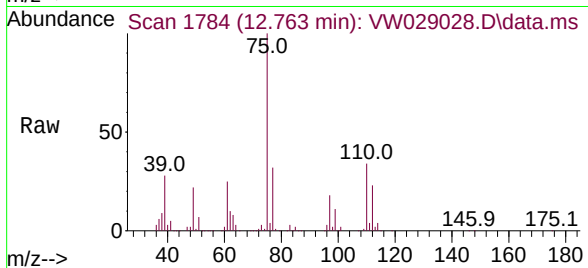




#61
1,2,3-Trichloropropane
Concen: 41.930 ug/L
RT: 12.763 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

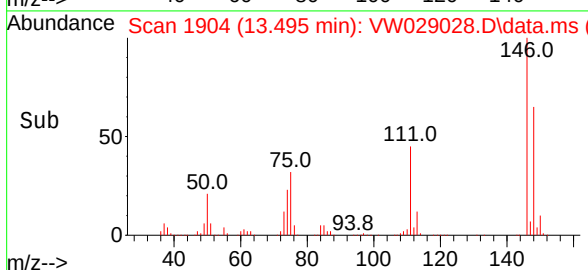
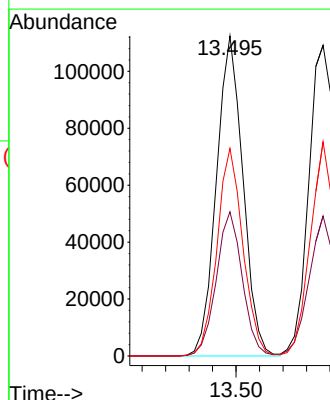
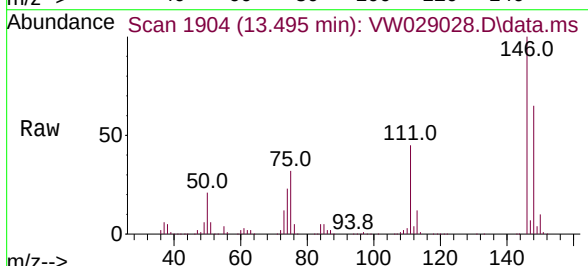
Instrument :
MSVOA_W
ClientSampleId :

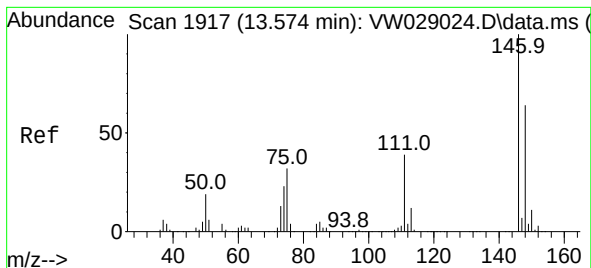
Tgt Ion: 75 Resp: 115575
Ion Ratio Lower Upper
75 100
77 32.5 26.3 39.5
110 36.7 29.4 44.0



#64
1,3-Dichlorobenzene
Concen: 19.835 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

Tgt Ion:146 Resp: 176279
Ion Ratio Lower Upper
146 100
111 45.0 29.4 54.6
148 64.8 42.5 78.9





#65

1,4-Dichlorobenzene

Concen: 19.811 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min MSVOA_W

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

ClientSampleId :

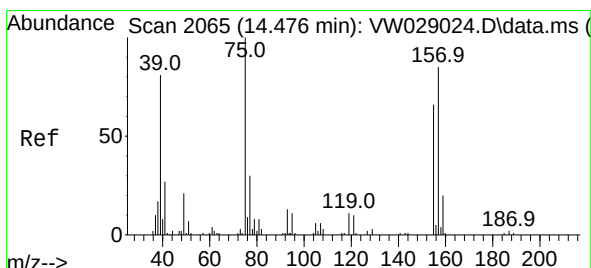
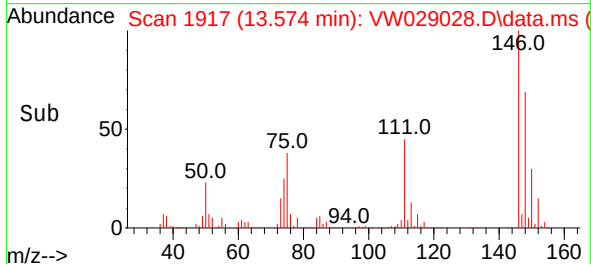
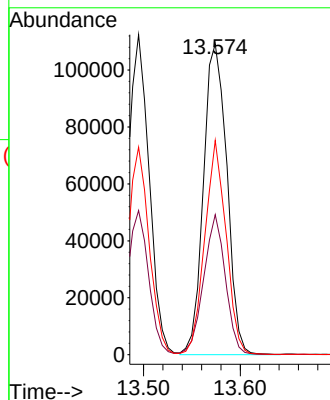
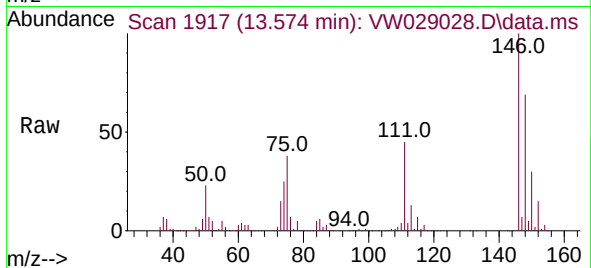
Tgt Ion:146 Resp: 183884

Ion Ratio Lower Upper

146 100

111 45.0 27.5 51.1

148 68.9 39.5 73.3



#68

1,2-Dibromo-3-chloropropane

Concen: 12.672 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

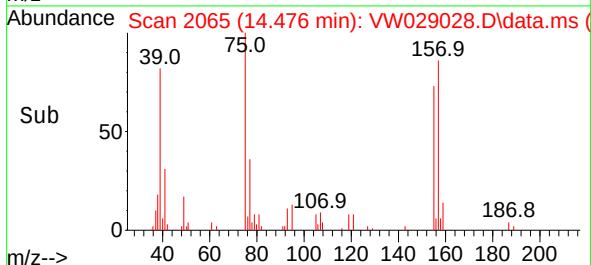
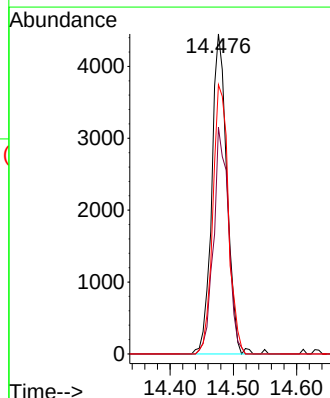
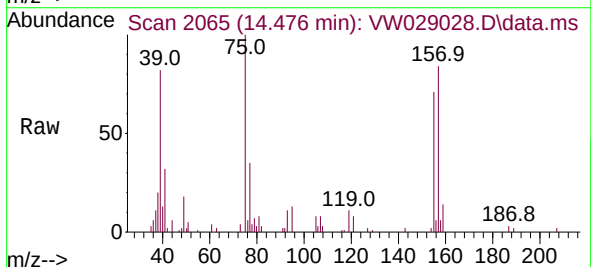
Tgt Ion: 75 Resp: 7445

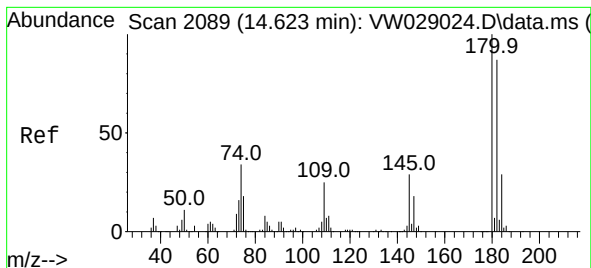
Ion Ratio Lower Upper

75 100

155 70.8 52.3 78.5

157 84.1 71.0 106.4





#69

1,3,5-Trichlorobenzene

Concen: 8.203 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. 0.500 min

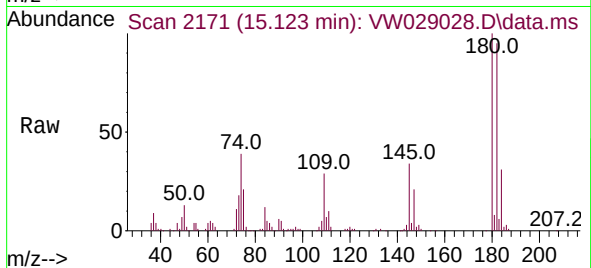
Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:180 Resp: 50052

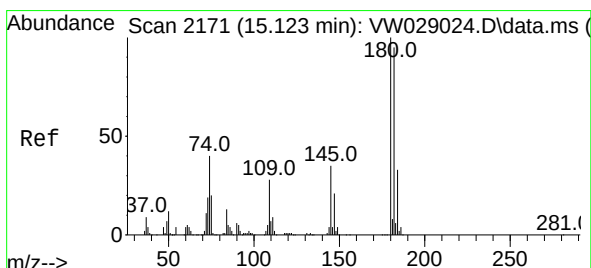
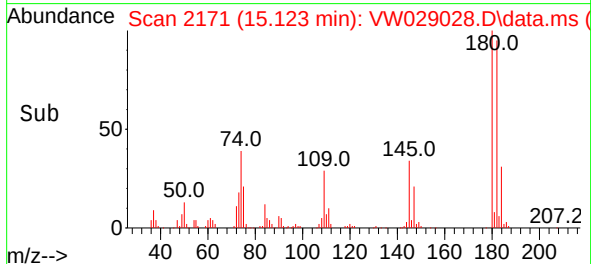
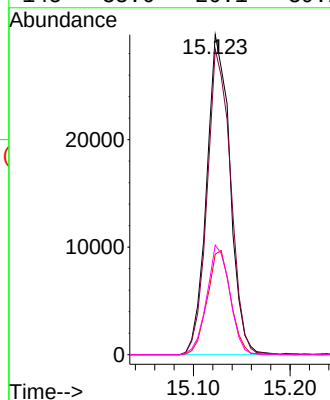
Ion Ratio Lower Upper

180 100

182 96.1 77.4 116.0

184 32.6 24.6 36.8

145 33.6 26.1 39.1



#70

1,2,4-trichlorobenzene

Concen: 10.121 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. -0.000 min

Lab File: VW029028.D

Acq: 06 Jun 2024 11:06

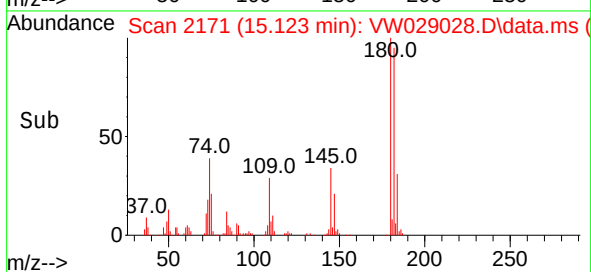
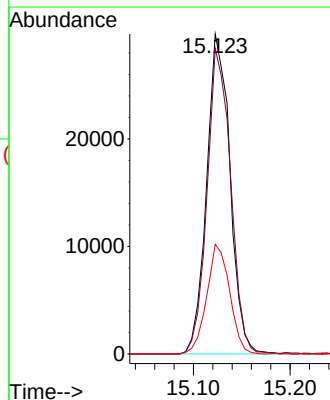
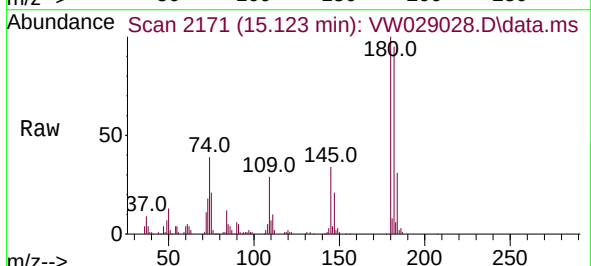
Tgt Ion:180 Resp: 50052

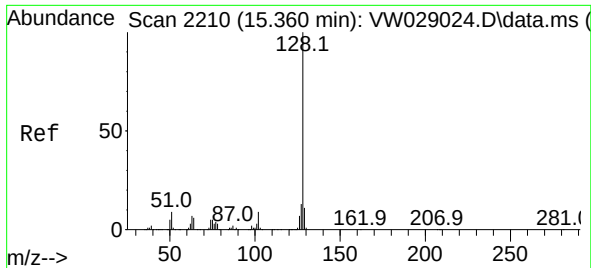
Ion Ratio Lower Upper

180 100

182 96.1 75.3 112.9

145 33.6 26.2 39.2





#71
Naphthalene
Concen: 42.527 ug/L
RT: 15.360 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW029028.D
Acq: 06 Jun 2024 11:06

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:128 Resp: 358343
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 11.0 8.6 12.8

