

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW061924\
 Data File : VW029203.D
 Acq On : 19 Jun 2024 10:33
 Operator : SY/MD
 Sample : P2934-23
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 20 00:40:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM061824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Jun 20 00:39:34 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	252480	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	239360	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	118494	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	78263	22.395	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.600%
7) Chloroethane-d5	2.899	69	62768	21.269	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.080%
11) 1,1-Dichloroethene-d2	4.021	65	37336	22.128	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.520%
21) 2-Butanone-d5	7.075	46	48763	46.639	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.280%
24) Chloroform-d	7.648	84	159096	21.124	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	84.480%
26) 1,2-Dichloroethane-d4	8.307	65	96291	22.268	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.080%
32) Benzene-d6	8.270	84	315266	21.685	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	86.720%
36) 1,2-Dichloropropane-d6	9.270	67	100320	21.707	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	86.840%
41) Toluene-d8	10.319	98	292516	22.741	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.960%
43) trans-1,3-Dichloroprop...	10.575	79	41620	22.348	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.400%
47) 2-Hexanone-d5	10.922	63	35387	48.844	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.680%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	81693	22.210	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	88.840%
66) 1,2-Dichlorobenzene-d4	13.849	152	92350	22.453	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.800%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	308441	105.432	ug/L #	63
13) Acetone	4.119	43	181632	204.419	ug/L	94
16) Methylene chloride	4.923	84	167079	37.634	ug/L	98
17) trans-1,2-Dichloroethene	5.423	96	87801	27.025	ug/L	93
18) Methyl tert-butyl Ether	5.429	73	109673	21.099	ug/L	99
20) cis-1,2-Dichloroethene	7.173	96	112946	31.526	ug/L	97
22) 2-Butanone	7.167	43	153392	125.939	ug/L	99
27) 1,2-Dichloroethane	8.398	62	180971	35.811	ug/L	99
31) Carbon tetrachloride	8.069	117	369567	76.008	ug/L	97
33) Benzene	8.319	78	773412	53.776	ug/L	100
34) Trichloroethene	9.093	95	366938	95.632	ug/L	95
37) 1,2-Dichloropropane	9.368	63	194563	48.144	ug/L	98
38) Bromodichloromethane	9.642	83	272528	55.155	ug/L	100
39) cis-1,3-Dichloropropene	10.069	75	316737	55.445	ug/L	98
40) 4-Methyl-2-pentanone	10.209	43	513320	204.934	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	171810	35.618	ug/L	96
45) 1,1,2-Trichloroethane	10.782	97	118660	42.159	ug/L	96
46) Tetrachloroethene	10.861	164	146392	54.578	ug/L	93
48) 2-Hexanone	10.965	43	209792	118.036	ug/L	99

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Quant Title : SFAM01.0
QLast Update : Thu Jun 20 00:39:34 2024
Response via : Initial Calibration

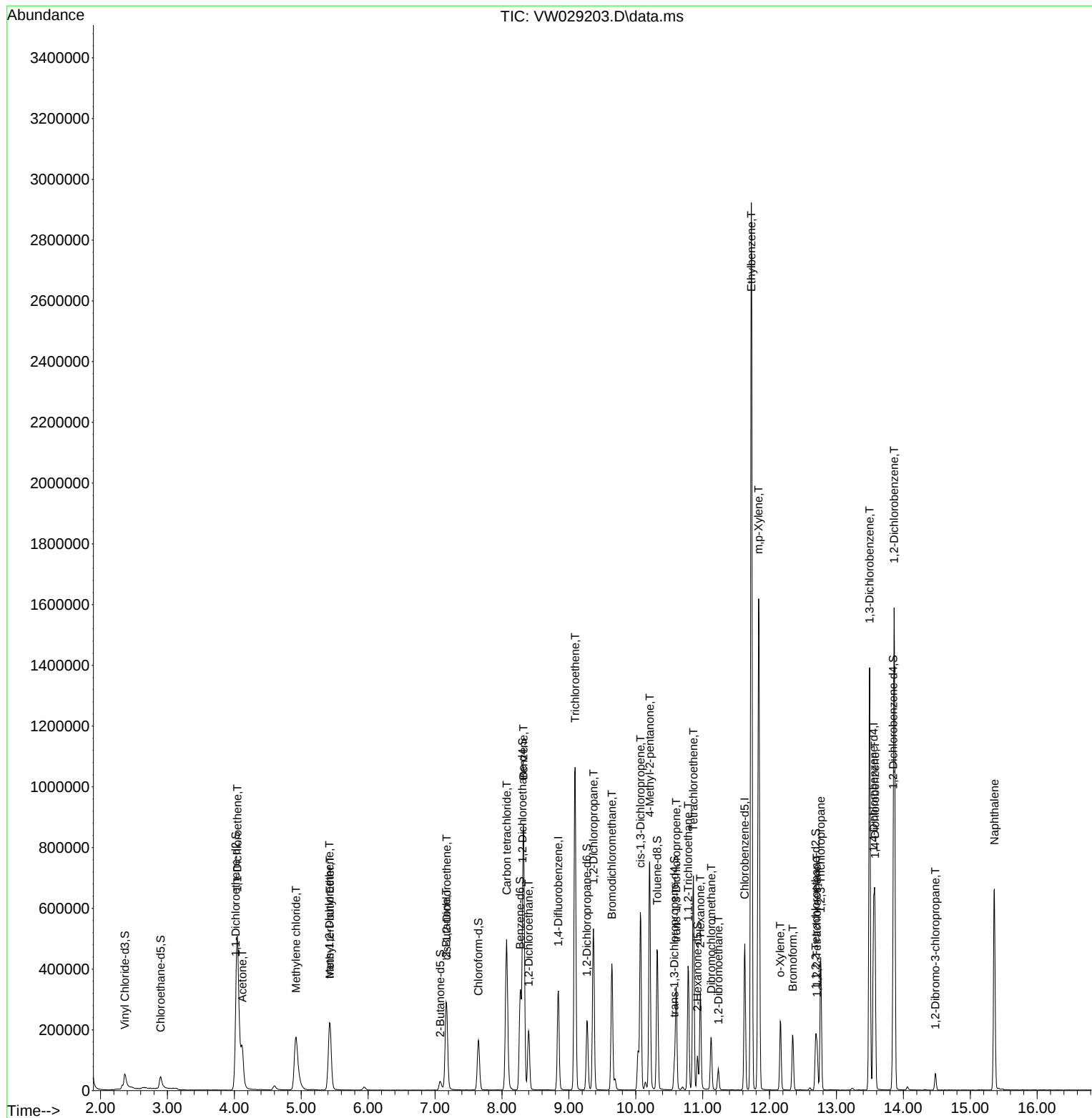
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	11.130	129	84911	28.860	ug/L	95
50) 1,2-Dibromoethane	11.233	107	44593	17.650	ug/L	98
52) Ethylbenzene	11.727	91	1476727	87.989	ug/L	97
53) m,p-Xylene	11.837	106	465484	75.932	ug/L	96
54) o-Xylene	12.160	106	57209	9.985	ug/L	94
57) 1,1,2,2-Tetrachloroethane	12.709	83	62800	18.038	ug/L	97
59) Bromoform	12.349	173	78859	48.557	ug/L	100
61) 1,2,3-Trichloropropane	12.763	75	172837	66.873	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	499066	73.041	ug/L	90
65) 1,4-Dichlorobenzene	13.574	146	194610	26.770	ug/L	96
67) 1,2-Dichlorobenzene	13.861	146	512454	81.128	ug/L	92
68) 1,2-Dibromo-3-chloropr...	14.476	75	14143	23.449	ug/L #	90
71) Naphthalene	15.360	128	520150	70.501	ug/L	100

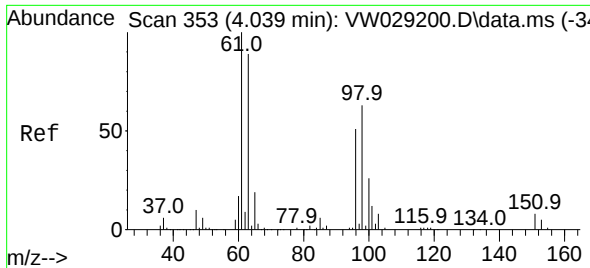
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 105.432 ug/L

RT: 4.045 min Scan# 353

Delta R.T. 0.006 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :

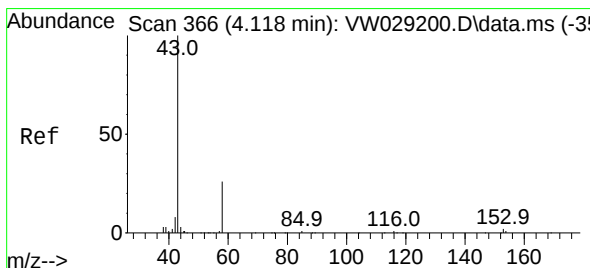
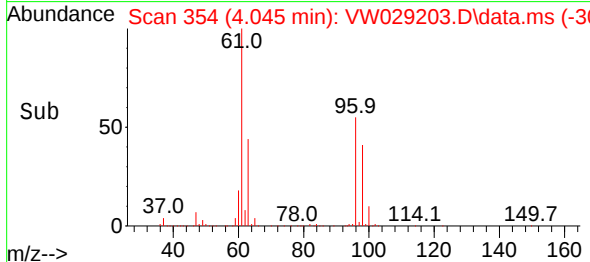
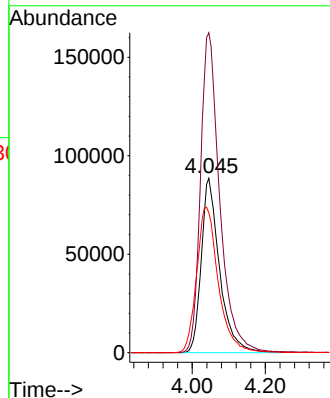
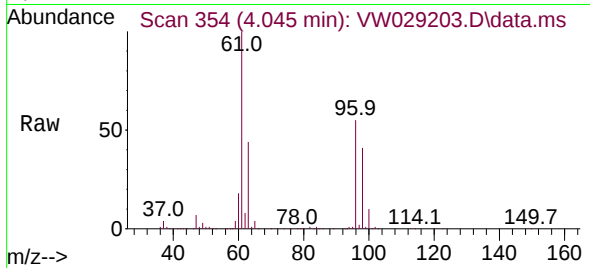
Tgt Ion: 96 Resp: 308441

Ion Ratio Lower Upper

96 100

61 183.5 140.1 260.3

63 80.2 122.0 226.6#



#13

Acetone

Concen: 204.419 ug/L

RT: 4.119 min Scan# 366

Delta R.T. 0.000 min

Lab File: VW029203.D

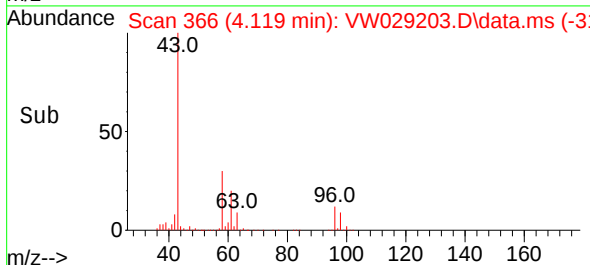
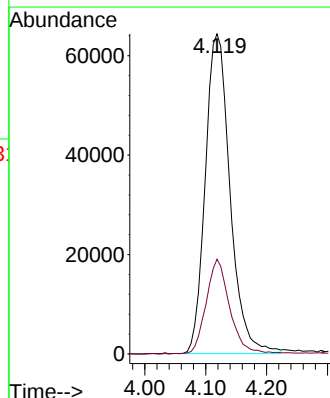
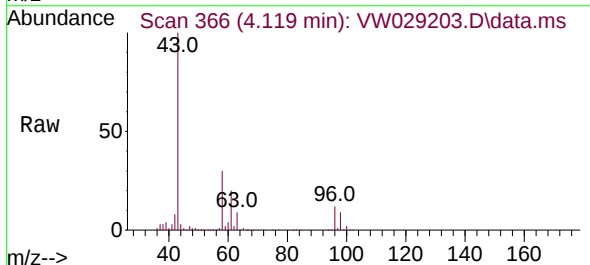
Acq: 19 Jun 2024 10:33

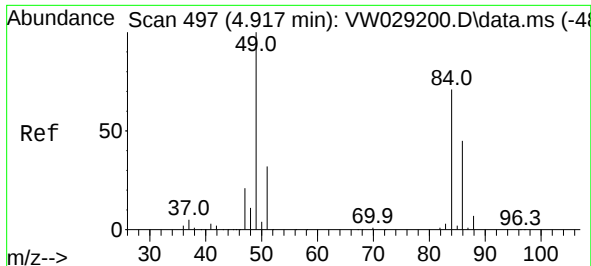
Tgt Ion: 43 Resp: 181632

Ion Ratio Lower Upper

43 100

58 27.5 0.0 61.4

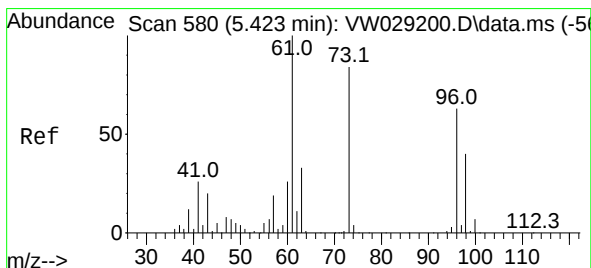
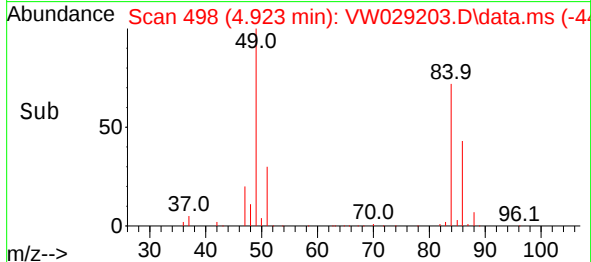
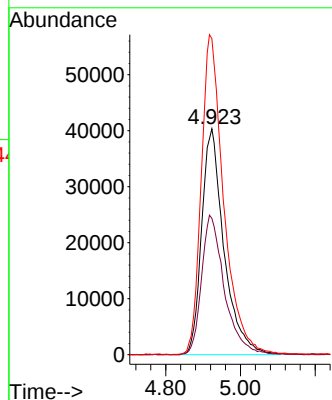
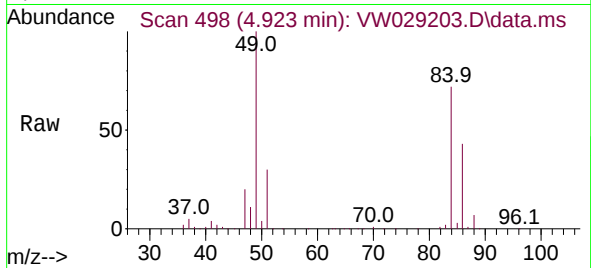




#16
Methylene chloride
Concen: 37.634 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.006 min
Lab File: VW029203.D
Acq: 19 Jun 2024 10:33

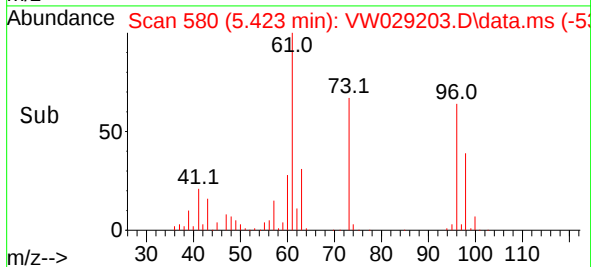
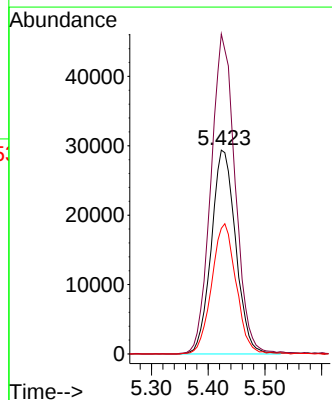
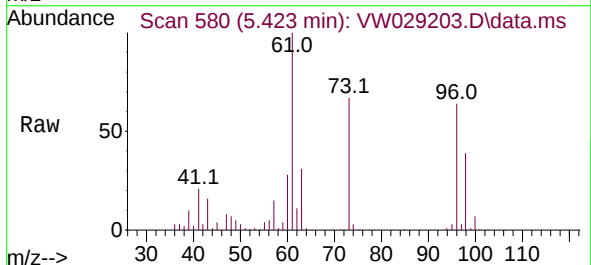
Instrument :
MSVOA_W
ClientSampleId :

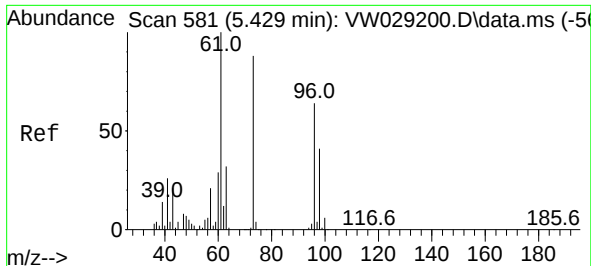
Tgt Ion: 84 Resp: 167079
Ion Ratio Lower Upper
84 100
86 60.3 41.4 77.0
49 139.8 95.7 177.7



#17
trans-1,2-Dichloroethene
Concen: 27.025 ug/L
RT: 5.423 min Scan# 580
Delta R.T. 0.000 min
Lab File: VW029203.D
Acq: 19 Jun 2024 10:33

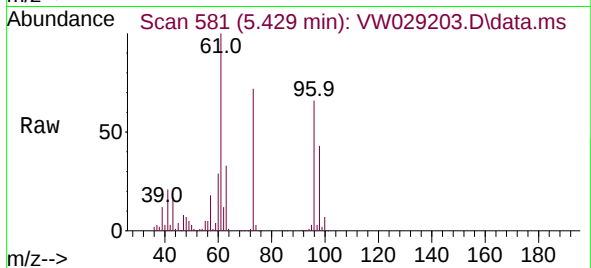
Tgt Ion: 96 Resp: 87801
Ion Ratio Lower Upper
96 100
61 157.0 101.5 188.5
98 61.6 43.3 80.3



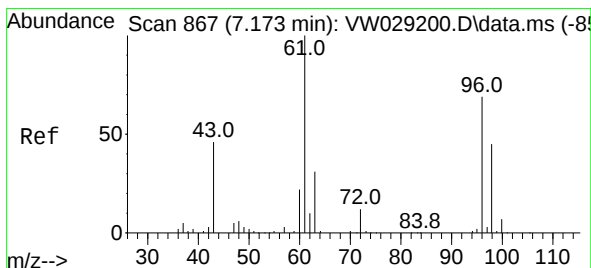
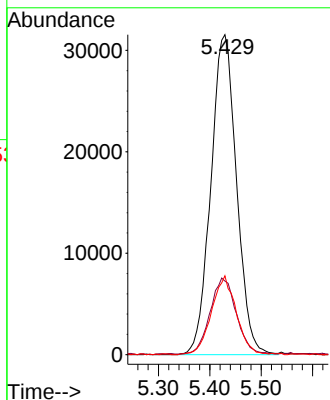
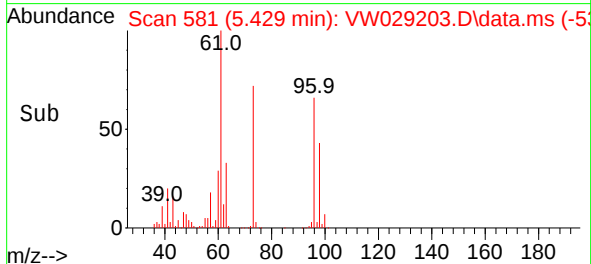


#18
Methyl tert-butyl Ether
Concen: 21.099 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.000 min
Lab File: VW029203.D
Acq: 19 Jun 2024 10:33

Instrument :
MSVOA_W
ClientSampleId :

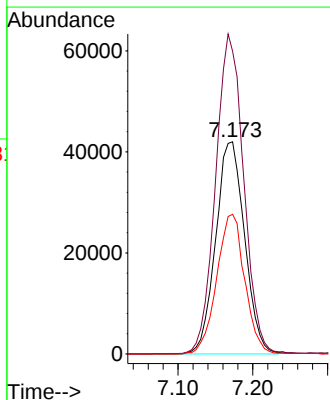
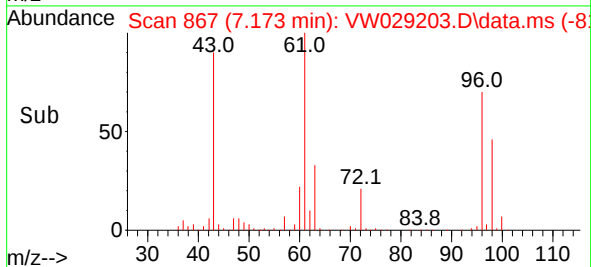
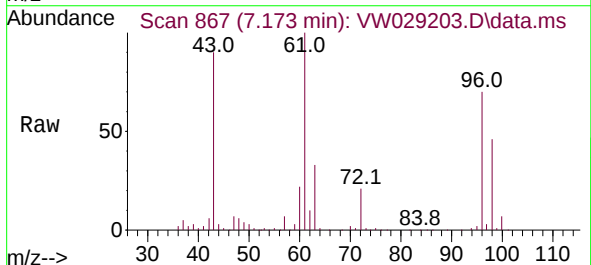


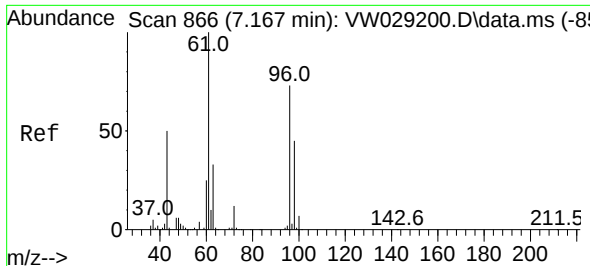
Tgt Ion: 73 Resp: 109673
Ion Ratio Lower Upper
73 100
43 24.1 19.5 29.3
57 23.7 18.4 27.6



#20
cis-1,2-Dichloroethene
Concen: 31.526 ug/L
RT: 7.173 min Scan# 867
Delta R.T. 0.000 min
Lab File: VW029203.D
Acq: 19 Jun 2024 10:33

Tgt Ion: 96 Resp: 112946
Ion Ratio Lower Upper
96 100
61 142.7 97.8 181.6
98 65.8 43.0 79.8





#22

2-Butanone

Concen: 125.939 ug/L

RT: 7.167 min Scan# 866

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

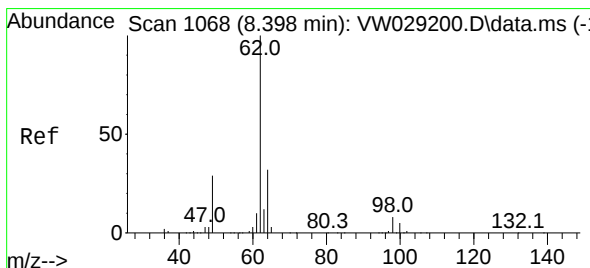
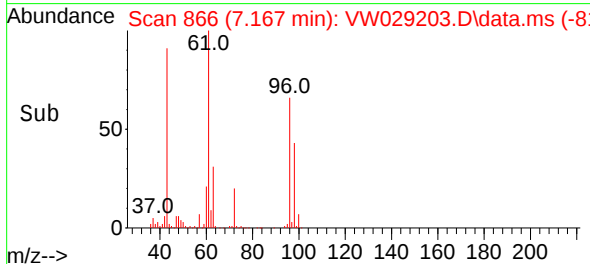
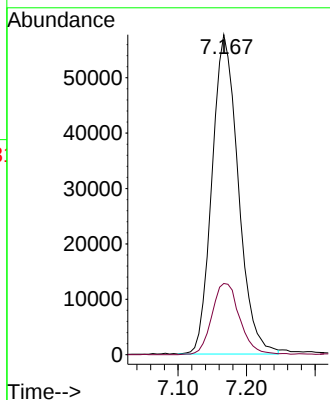
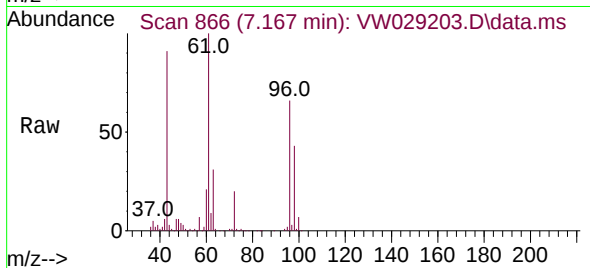
ClientSampleId :

Tgt Ion: 43 Resp: 153392

Ion Ratio Lower Upper

43 100

72 23.5 11.9 35.7



#27

1,2-Dichloroethane

Concen: 35.811 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. 0.000 min

Lab File: VW029203.D

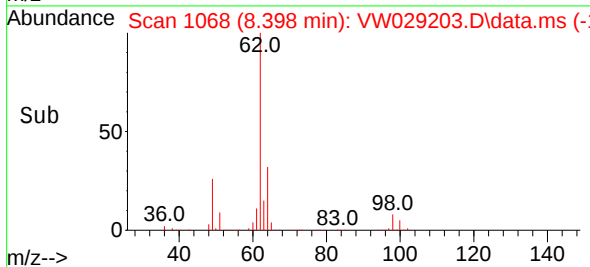
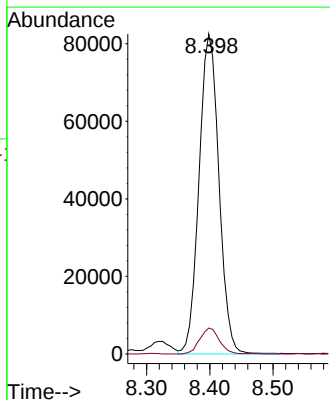
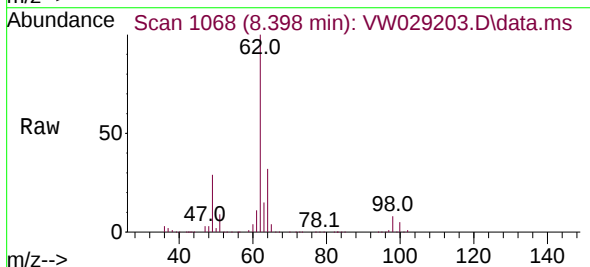
Acq: 19 Jun 2024 10:33

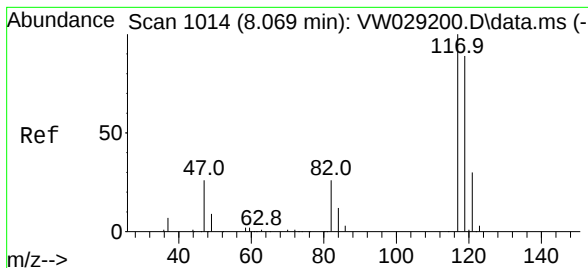
Tgt Ion: 62 Resp: 180971

Ion Ratio Lower Upper

62 100

98 8.1 6.6 10.0





#31

Carbon tetrachloride

Concen: 76.008 ug/L

RT: 8.069 min Scan# 1014

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

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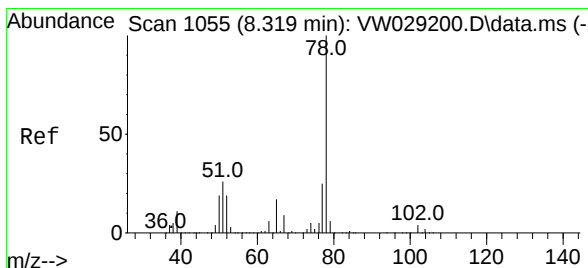
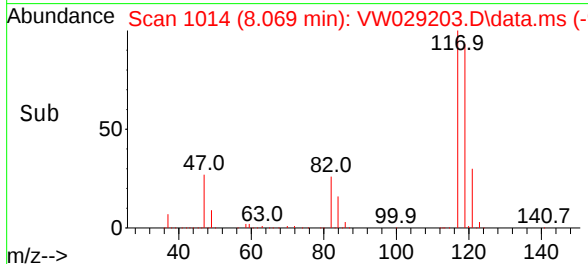
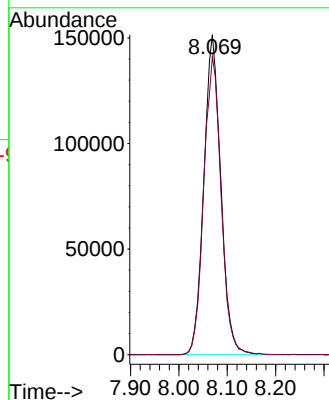
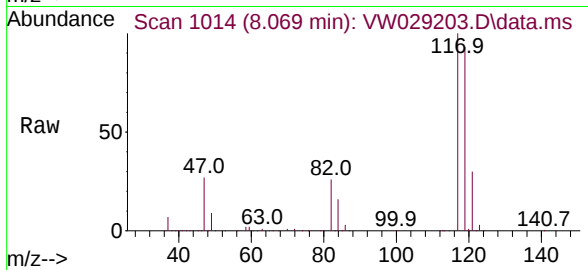
ClientSampleId :

Tgt Ion:117 Resp: 369567

Ion Ratio Lower Upper

117 100

119 95.3 79.0 118.4



#33

Benzene

Concen: 53.776 ug/L

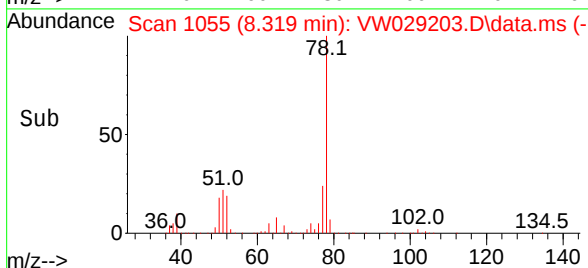
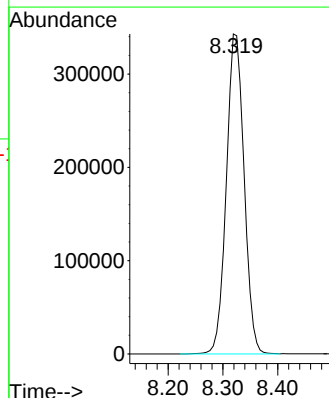
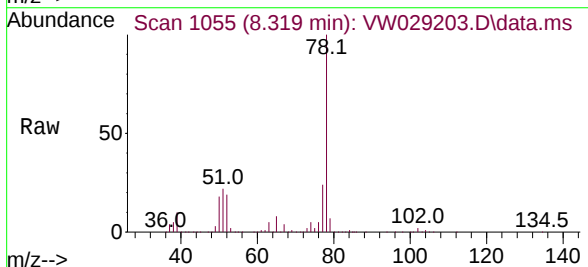
RT: 8.319 min Scan# 1055

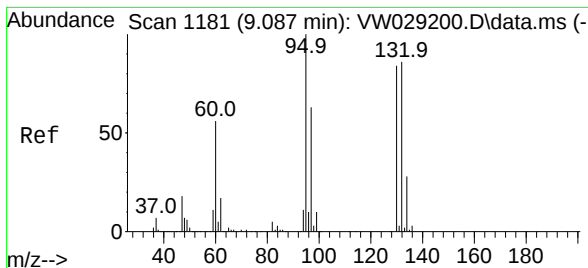
Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Tgt Ion: 78 Resp: 773412





#34

Trichloroethene

Concen: 95.632 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.006 min

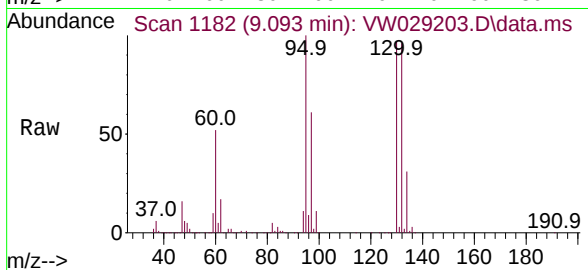
Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 366938

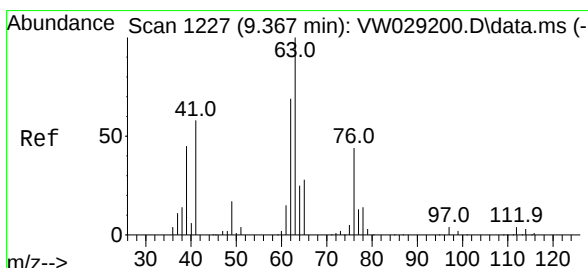
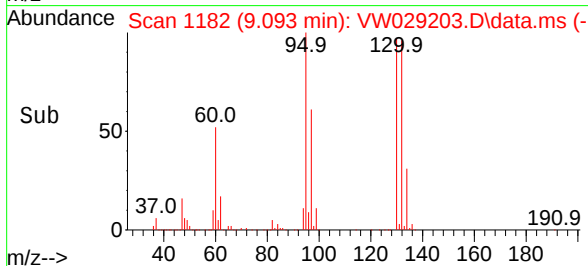
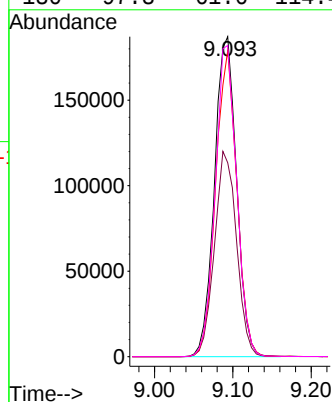
Ion Ratio Lower Upper

95 100

97 60.6 45.7 84.9

132 95.7 66.4 123.4

130 97.3 61.6 114.4



#37

1,2-Dichloropropane

Concen: 48.144 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW029203.D

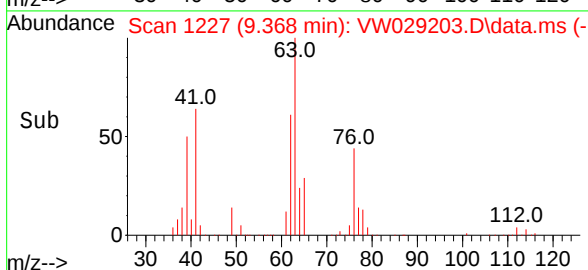
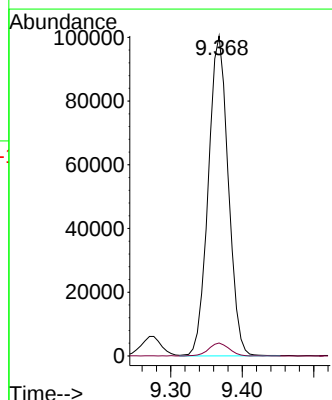
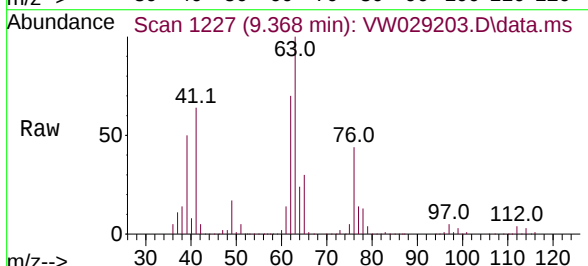
Acq: 19 Jun 2024 10:33

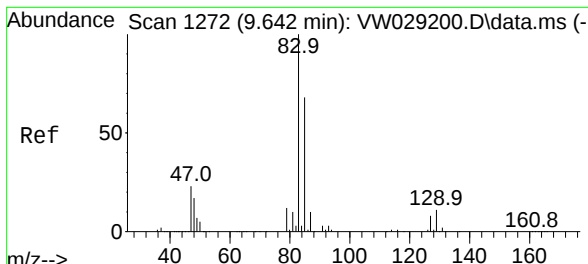
Tgt Ion: 63 Resp: 194563

Ion Ratio Lower Upper

63 100

112 4.1 3.8 5.6





#38

Bromodichloromethane

Concen: 55.155 ug/L

RT: 9.642 min Scan# 1272

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :

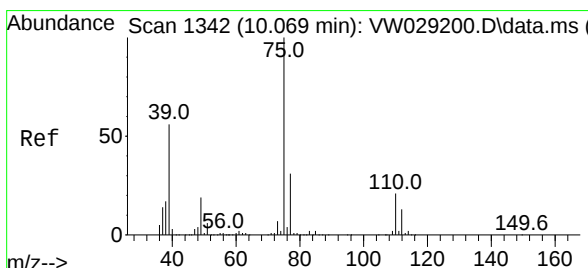
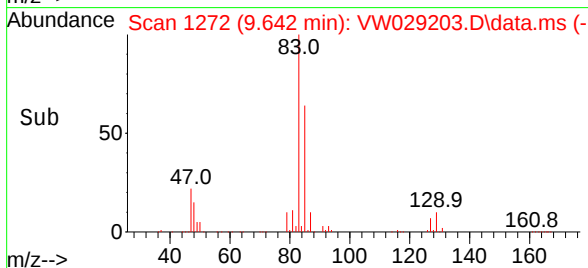
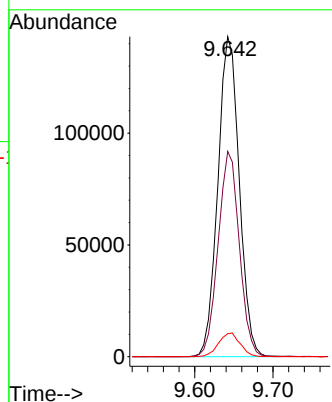
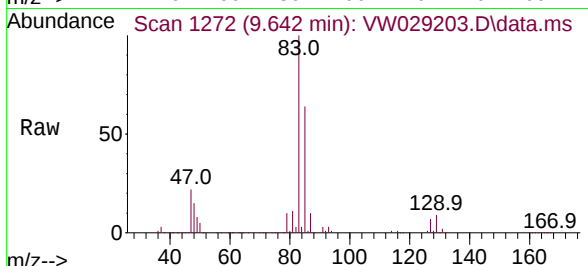
Tgt Ion: 83 Resp: 272528

Ion Ratio Lower Upper

83 100

85 64.2 45.1 83.9

127 7.2 5.8 8.6



#39

cis-1,3-Dichloropropene

Concen: 55.445 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VW029203.D

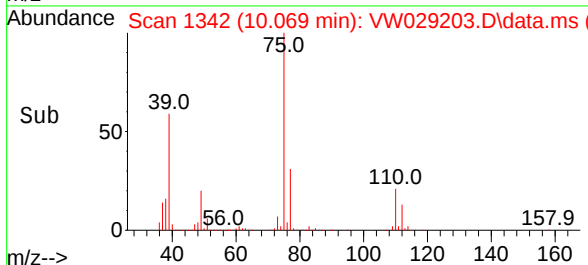
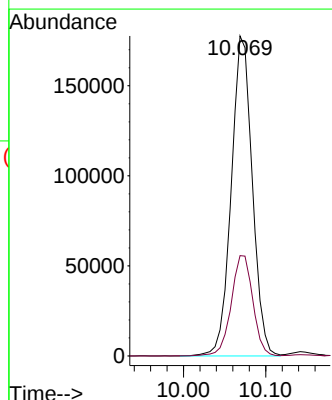
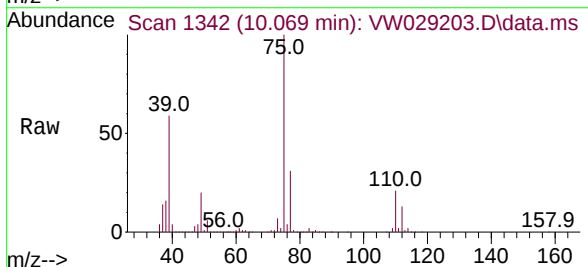
Acq: 19 Jun 2024 10:33

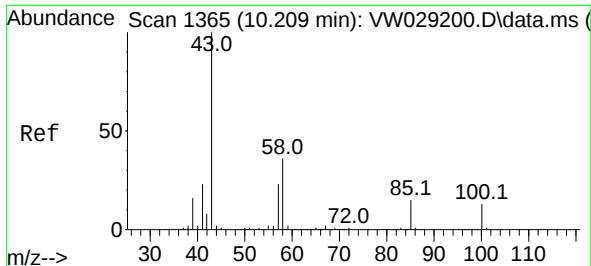
Tgt Ion: 75 Resp: 316737

Ion Ratio Lower Upper

75 100

77 31.3 22.7 42.1





#40

4-Methyl-2-pentanone

Concen: 204.934 ug/L

RT: 10.209 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :

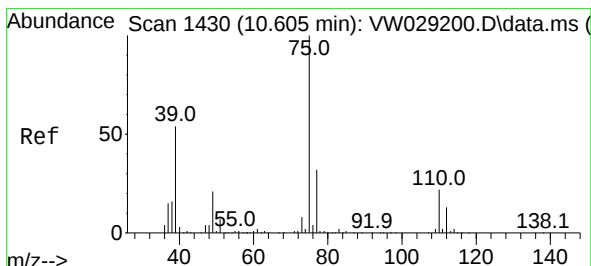
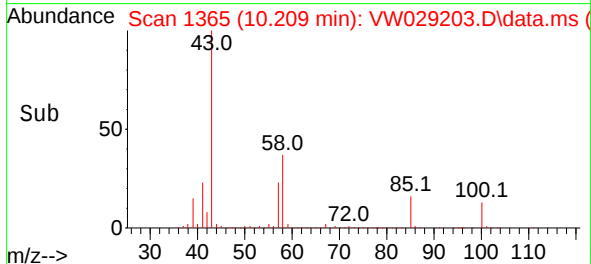
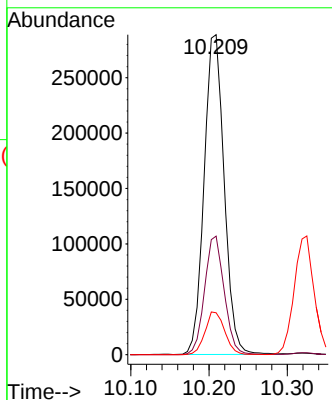
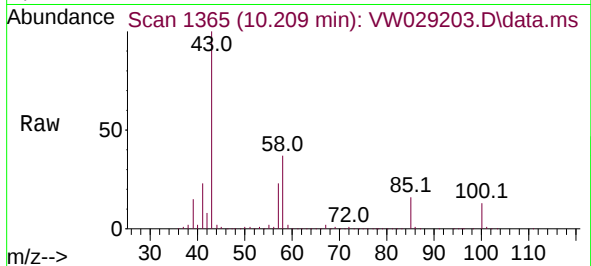
Tgt Ion: 43 Resp: 513320

Ion Ratio Lower Upper

43 100

58 36.3 28.2 42.4

100 13.1 11.0 16.4



#44

trans-1,3-Dichloropropene

Concen: 35.618 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW029203.D

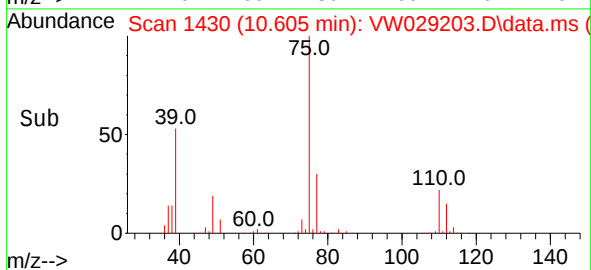
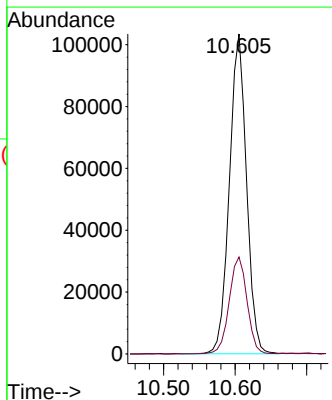
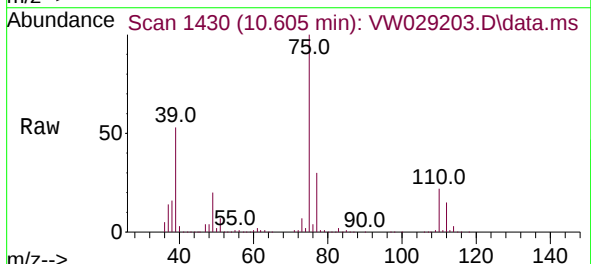
Acq: 19 Jun 2024 10:33

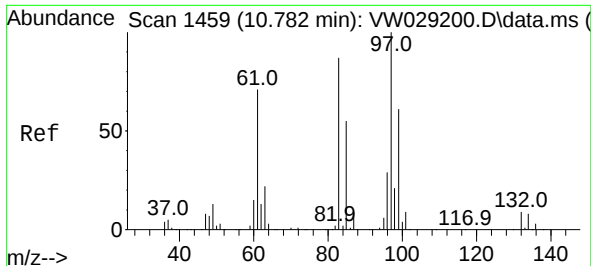
Tgt Ion: 75 Resp: 171810

Ion Ratio Lower Upper

75 100

77 30.3 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 42.159 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 118660

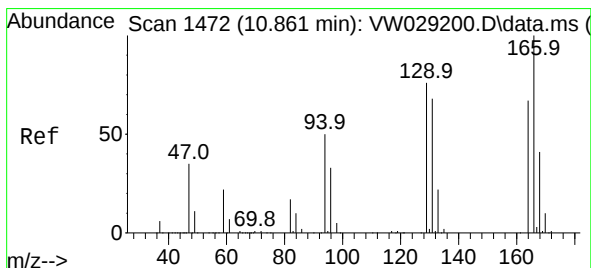
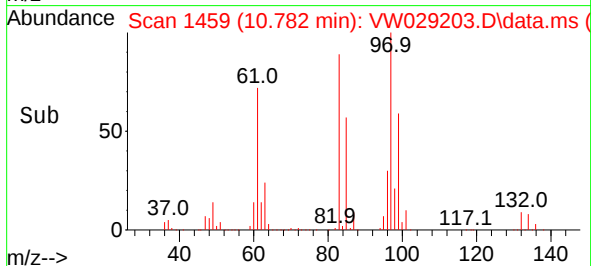
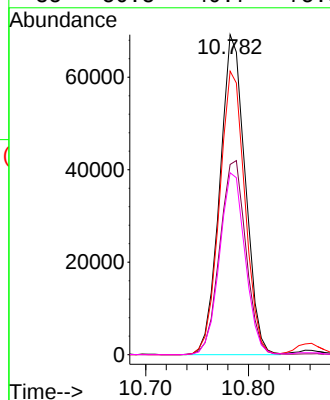
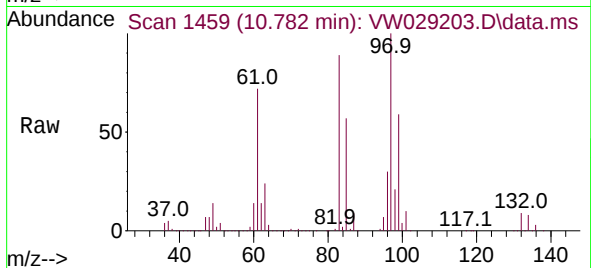
Ion Ratio Lower Upper

97 100

99 59.4 42.3 78.5

83 88.6 57.7 107.1

85 56.8 40.7 75.5



#46

Tetrachloroethene

Concen: 54.578 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Tgt Ion:164 Resp: 146392

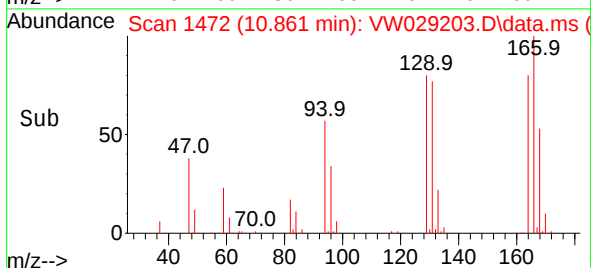
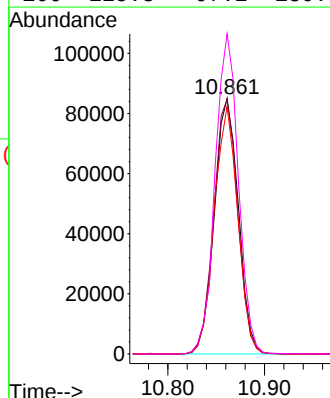
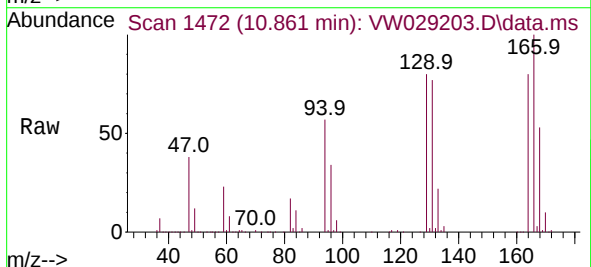
Ion Ratio Lower Upper

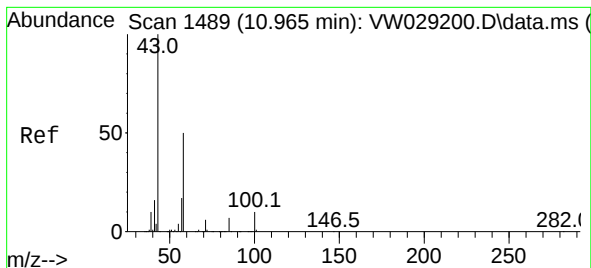
164 100

129 99.8 68.5 127.3

131 96.9 71.8 133.4

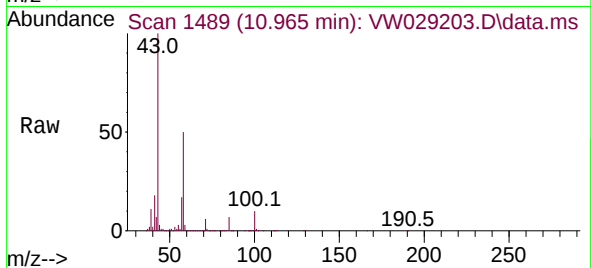
166 125.3 97.2 180.4



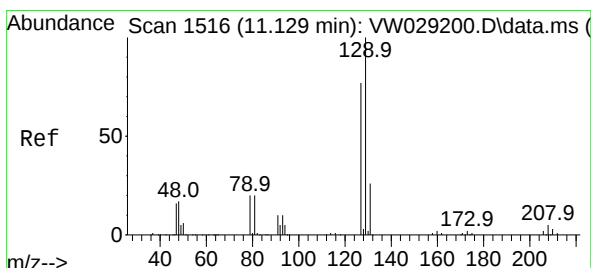
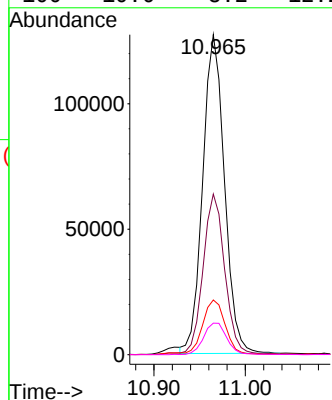
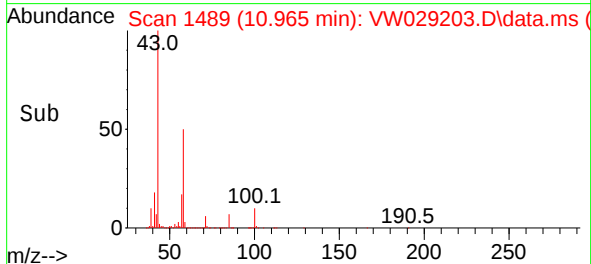


#48
2-Hexanone
Concen: 118.036 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VW029203.D
Acq: 19 Jun 2024 10:33

Instrument :
MSVOA_W
ClientSampleId :

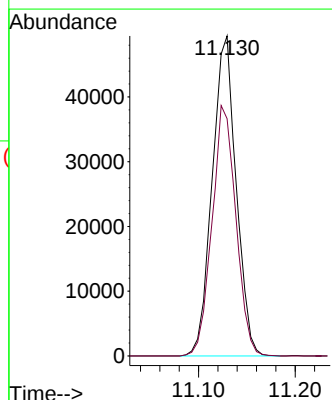
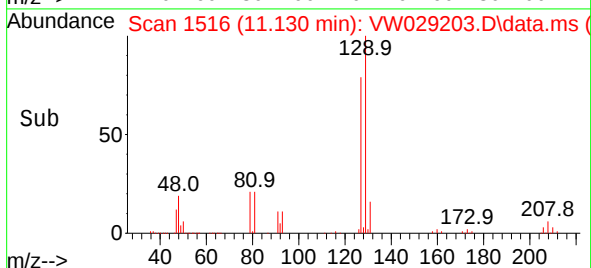
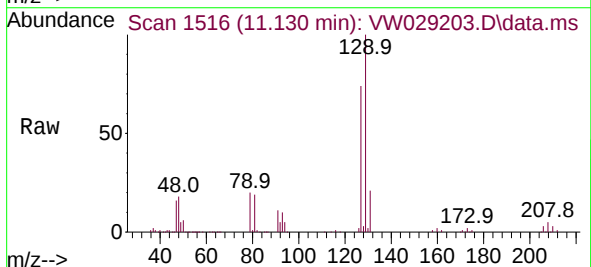


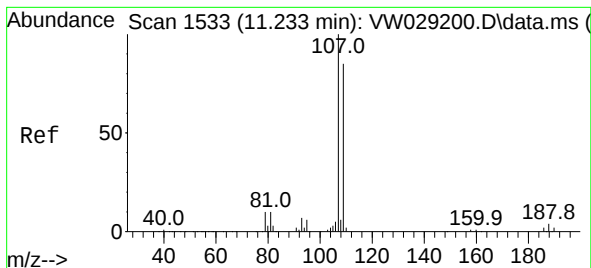
Tgt Ion: 43 Resp: 209792
Ion Ratio Lower Upper
43 100
58 50.4 39.6 59.4
57 17.7 14.6 21.8
100 10.6 8.2 12.2



#49
Dibromochloromethane
Concen: 28.860 ug/L
RT: 11.130 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW029203.D
Acq: 19 Jun 2024 10:33

Tgt Ion: 129 Resp: 84911
Ion Ratio Lower Upper
129 100
127 74.1 54.8 101.8

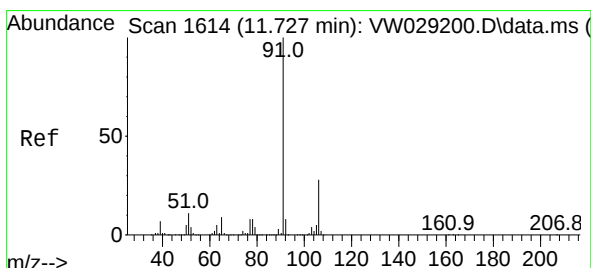
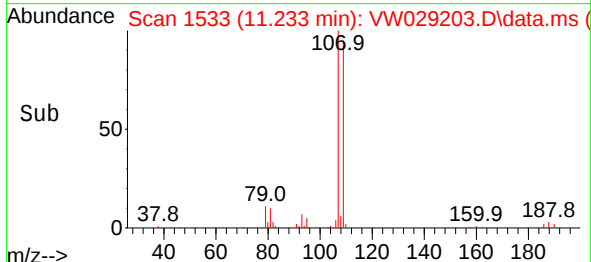
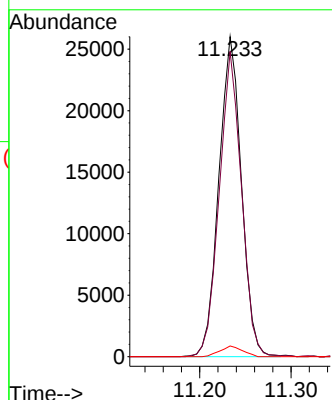
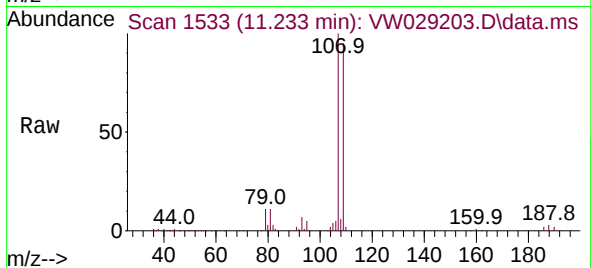




#50
1,2-Dibromoethane
Concen: 17.650 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. 0.000 min
Lab File: VW029203.D
Acq: 19 Jun 2024 10:33

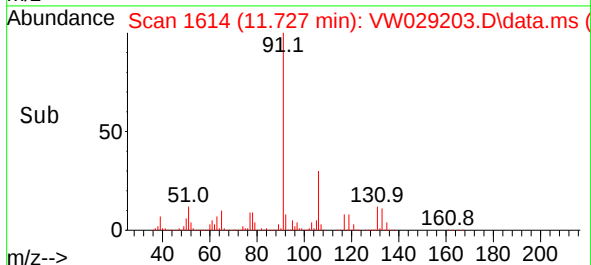
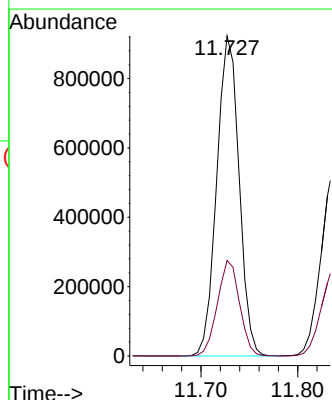
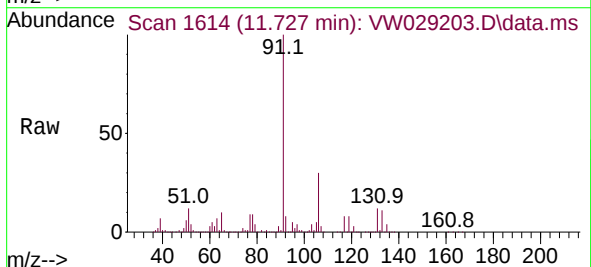
Instrument :
MSVOA_W
ClientSampleId :

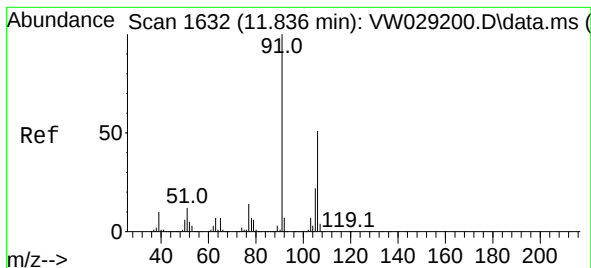
Tgt Ion:107 Resp: 44593
Ion Ratio Lower Upper
107 100
109 95.4 65.5 121.6
188 3.4 2.6 4.0



#52
Ethylbenzene
Concen: 87.989 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW029203.D
Acq: 19 Jun 2024 10:33

Tgt Ion: 91 Resp: 1476727
Ion Ratio Lower Upper
91 100
106 29.9 19.9 37.0





#53

m,p-Xylene

Concen: 75.932 ug/L

RT: 11.837 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

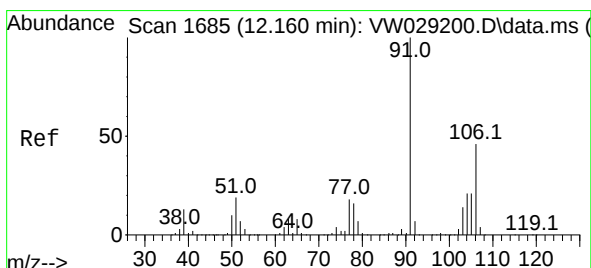
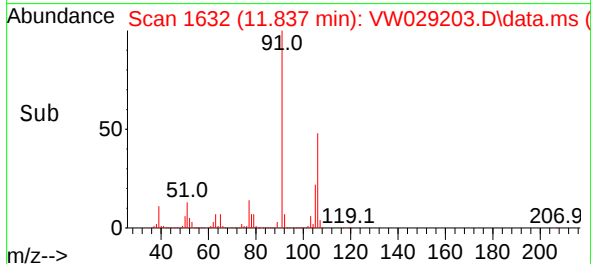
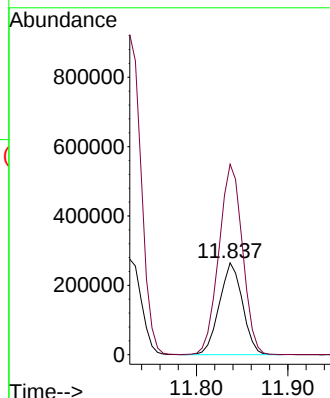
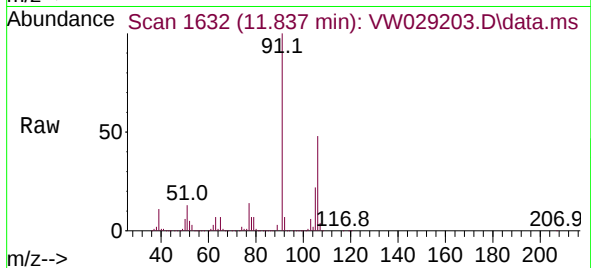
ClientSampleId :

Tgt Ion:106 Resp: 465484

Ion Ratio Lower Upper

106 100

91 207.4 140.5 260.9



#54

o-Xylene

Concen: 9.985 ug/L

RT: 12.160 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VW029203.D

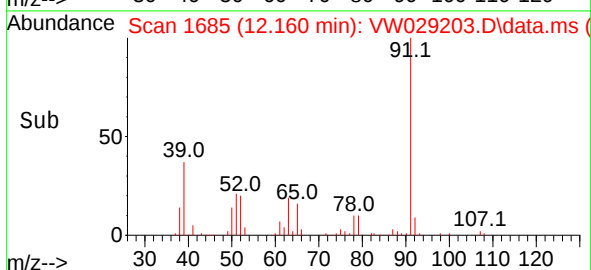
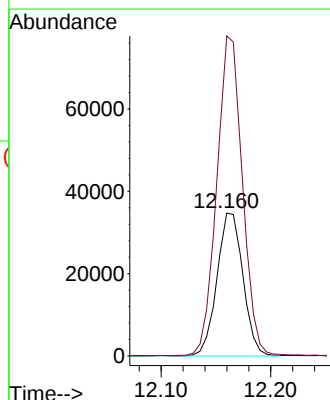
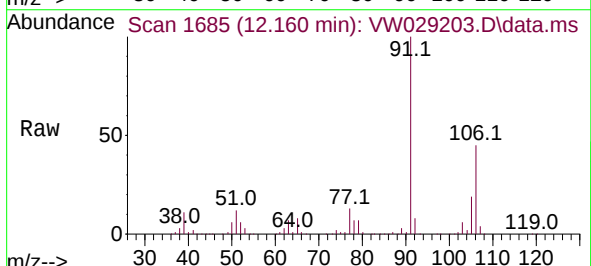
Acq: 19 Jun 2024 10:33

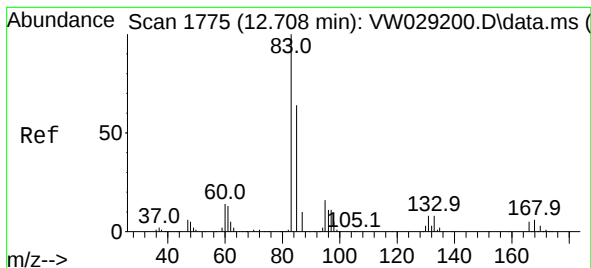
Tgt Ion:106 Resp: 57209

Ion Ratio Lower Upper

106 100

91 224.0 149.9 278.5





#57

1,1,2,2-Tetrachloroethane

Concen: 18.038 ug/L

RT: 12.709 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :

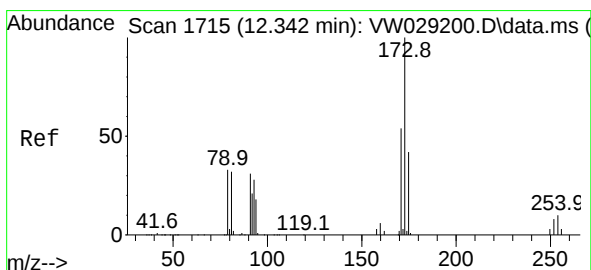
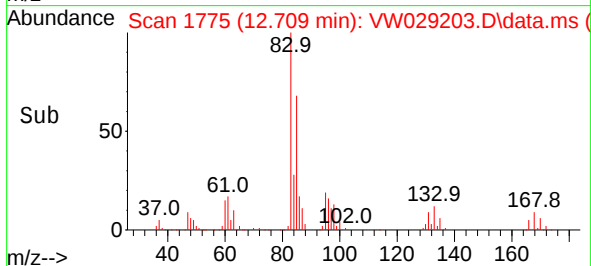
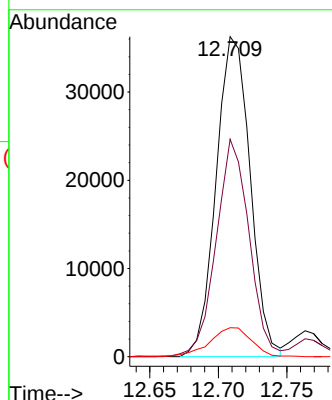
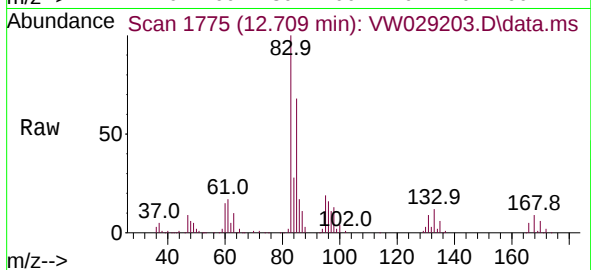
Tgt Ion: 83 Resp: 62800

Ion Ratio Lower Upper

83 100

85 68.0 45.8 85.0

131 9.1 7.8 11.6



#59

Bromoform

Concen: 48.557 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

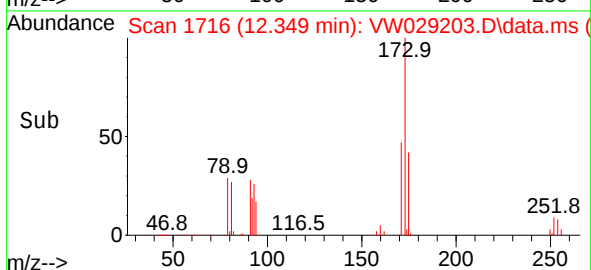
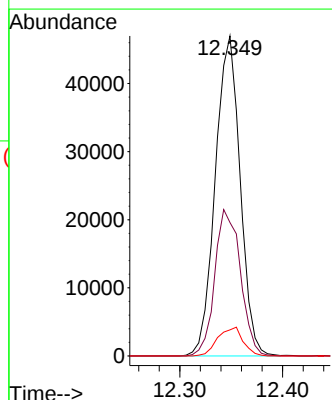
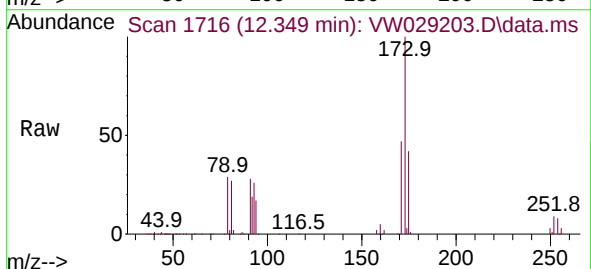
Tgt Ion:173 Resp: 78859

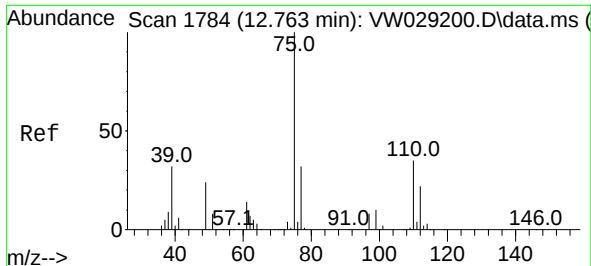
Ion Ratio Lower Upper

173 100

175 47.1 37.8 56.8

254 9.1 7.8 11.6





#61

1,2,3-Trichloropropane

Concen: 66.873 ug/L

RT: 12.763 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :

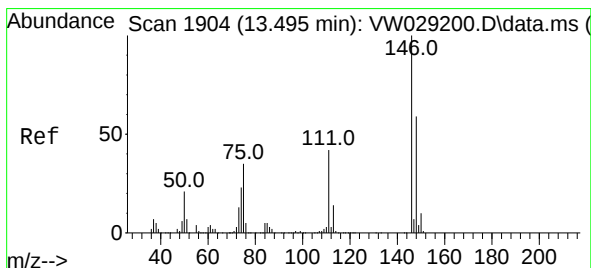
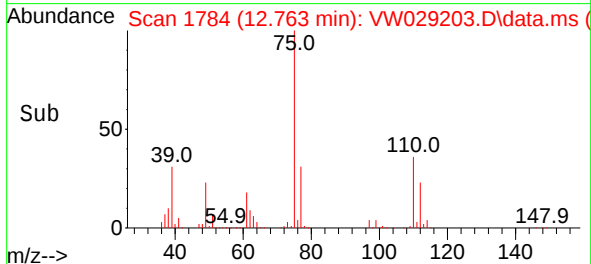
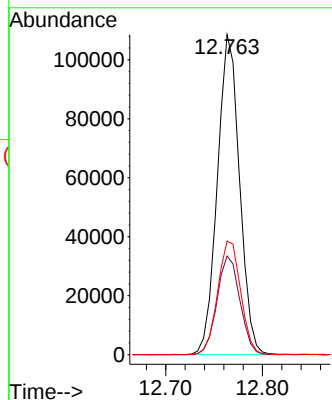
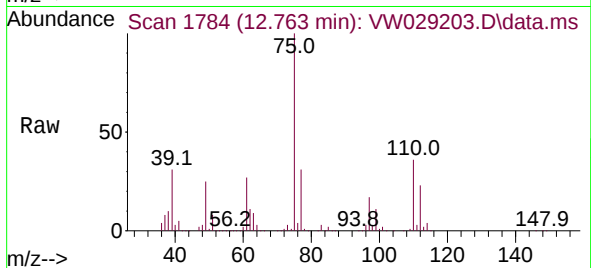
Tgt Ion: 75 Resp: 172837

Ion Ratio Lower Upper

75 100

77 31.8 26.6 39.8

110 36.9 29.5 44.3



#64

1,3-Dichlorobenzene

Concen: 73.041 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

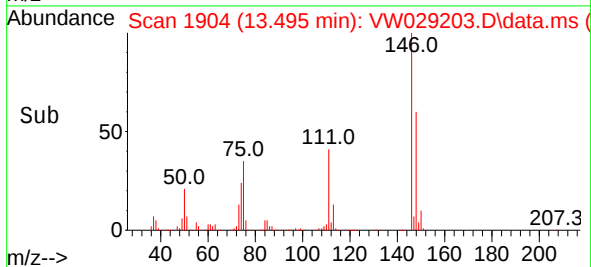
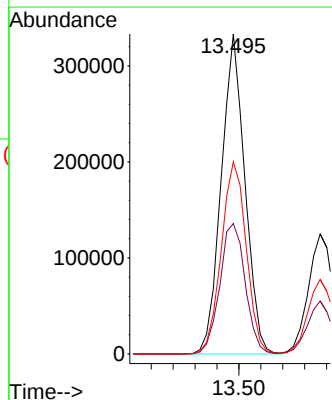
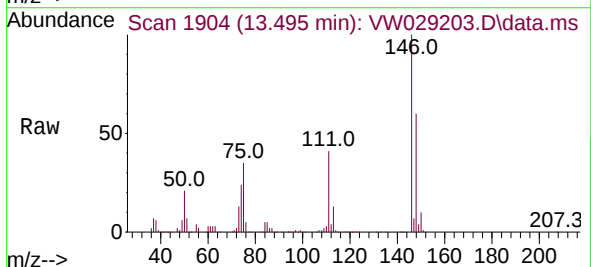
Tgt Ion:146 Resp: 499066

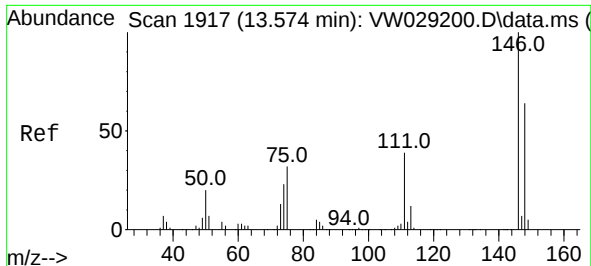
Ion Ratio Lower Upper

146 100

111 40.8 33.0 61.2

148 60.1 47.5 88.1





#65

1,4-Dichlorobenzene

Concen: 26.770 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :

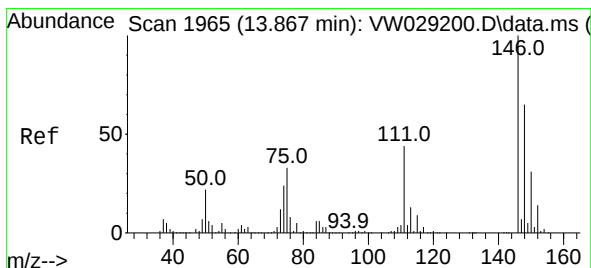
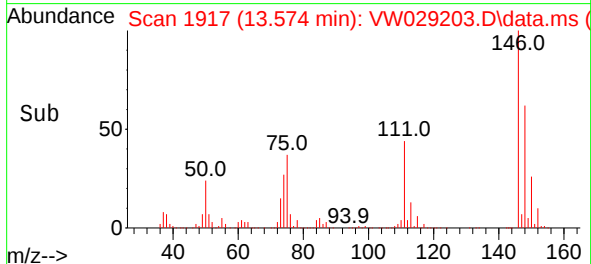
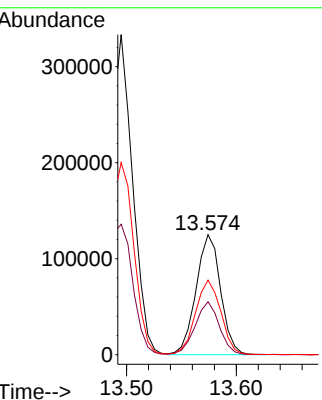
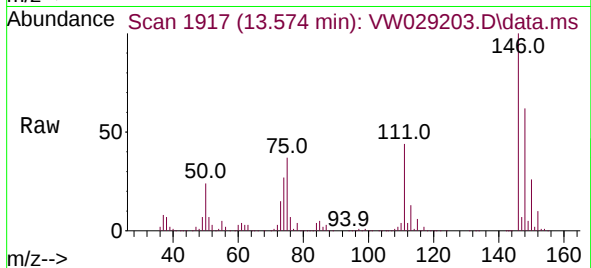
Tgt Ion:146 Resp: 194610

Ion Ratio Lower Upper

146 100

111 44.2 28.9 53.7

148 62.2 42.0 78.0



#67

1,2-Dichlorobenzene

Concen: 81.128 ug/L

RT: 13.861 min Scan# 1964

Delta R.T. -0.006 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

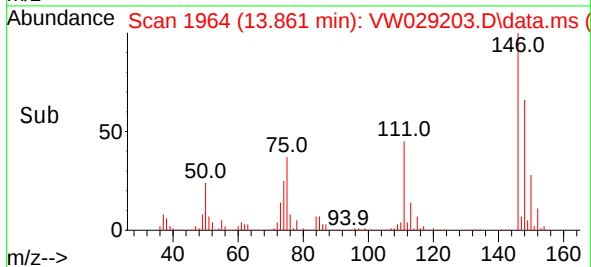
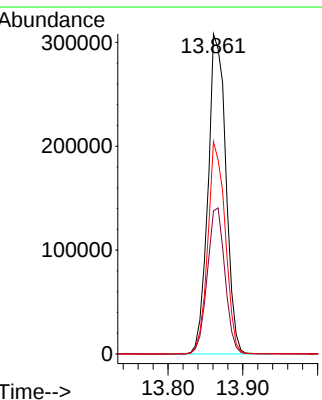
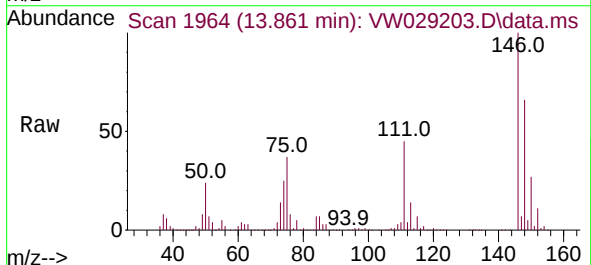
Tgt Ion:146 Resp: 512454

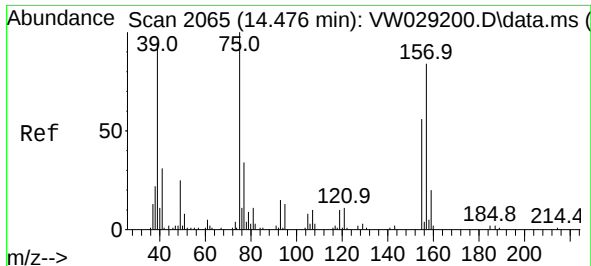
Ion Ratio Lower Upper

146 100

111 44.7 34.2 51.4

148 66.3 46.3 69.5





#68

1,2-Dibromo-3-chloropropane

Concen: 23.449 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VW029203.D

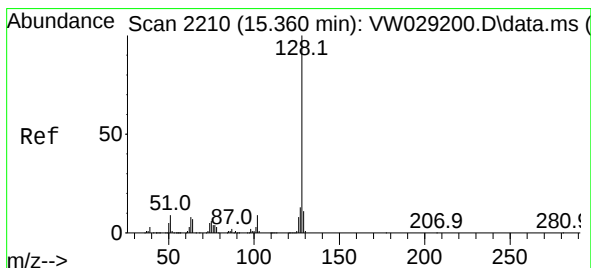
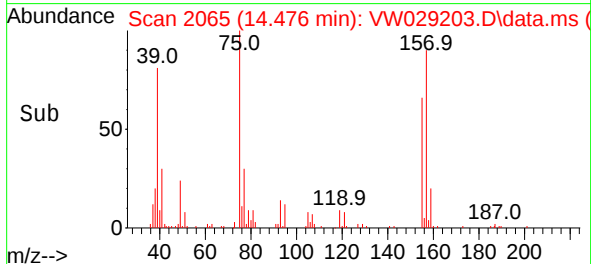
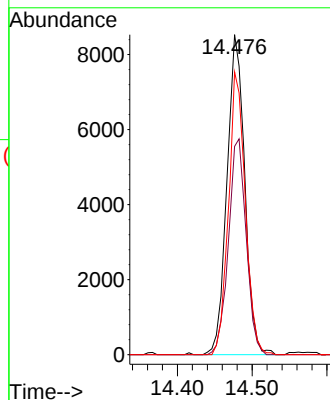
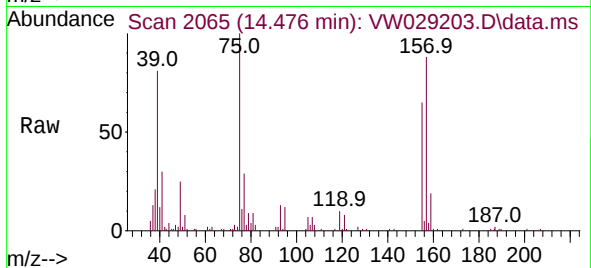
Acq: 19 Jun 2024 10:33

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	75	Resp:	14143
Ion Ratio	Lower	Upper	
75	100		
155	65.1	51.0	76.6
157	88.3	58.8	88.2#



#71

Naphthalene

Concen: 70.501 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VW029203.D

Acq: 19 Jun 2024 10:33

Tgt Ion:	128	Resp:	520150
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.3	15.5
129	10.9	8.9	13.3

