

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW062424\
 Data File : VW029324.D
 Acq On : 24 Jun 2024 13:58
 Operator : SY/MD
 Sample : P2982-16
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A4DJ7

Quant Time: Jun 25 01:40:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM061824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Tue Jun 25 01:37:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	295773	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	258093	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	124052	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	99477	24.299	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.200%
7) Chloroethane-d5	2.899	69	76724	22.193	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.760%
11) 1,1-Dichloroethene-d2	4.027	65	47342	23.951	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.800%
21) 2-Butanone-d5	7.075	46	53556	43.726	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.460%
24) Chloroform-d	7.648	84	219750	24.906	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.640%
26) 1,2-Dichloroethane-d4	8.307	65	113440	22.394	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.560%
32) Benzene-d6	8.276	84	392989	25.069	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.280%
36) 1,2-Dichloropropane-d6	9.270	67	122728	24.628	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.520%
41) Toluene-d8	10.319	98	363484	26.207	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.840%
43) trans-1,3-Dichloroprop...	10.575	79	48940	24.371	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.480%
47) 2-Hexanone-d5	10.922	63	37296	47.743	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.480%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	95044	23.964	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.840%
66) 1,2-Dichlorobenzene-d4	13.849	152	108266	25.143	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.560%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	132760	38.738	ug/L	80
13) Acetone	4.119	43	138799	133.347	ug/L	96
16) Methylene chloride	4.923	84	157449	30.274	ug/L	98
17) trans-1,2-Dichloroethene	5.429	96	323994	85.128	ug/L	94
18) Methyl tert-butyl Ether	5.429	73	289074	47.473	ug/L	98
19) 1,1-Dichloroethane	6.222	63	448178	54.522	ug/L	97
20) cis-1,2-Dichloroethene	7.167	96	320195	76.292	ug/L	94
22) 2-Butanone	7.167	43	124924	87.553	ug/L	96
25) Chloroform	7.679	83	664208	82.749	ug/L	98
27) 1,2-Dichloroethane	8.398	62	119599	20.203	ug/L	100
31) Carbon tetrachloride	8.069	117	73356	13.992	ug/L	95
33) Benzene	8.325	78	995444	64.191	ug/L	100
34) Trichloroethene	9.087	95	368335	89.028	ug/L	93
37) 1,2-Dichloropropane	9.368	63	194907	44.729	ug/L	98
38) Bromodichloromethane	9.642	83	309862	58.159	ug/L	95
39) cis-1,3-Dichloropropene	10.069	75	428904	69.630	ug/L	98
40) 4-Methyl-2-pentanone	10.209	43	553547	204.954	ug/L	98
42) Toluene	10.386	91	1204209	75.536	ug/L	96
44) trans-1,3-Dichloropropene	10.605	75	47100	9.056	ug/L	100

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

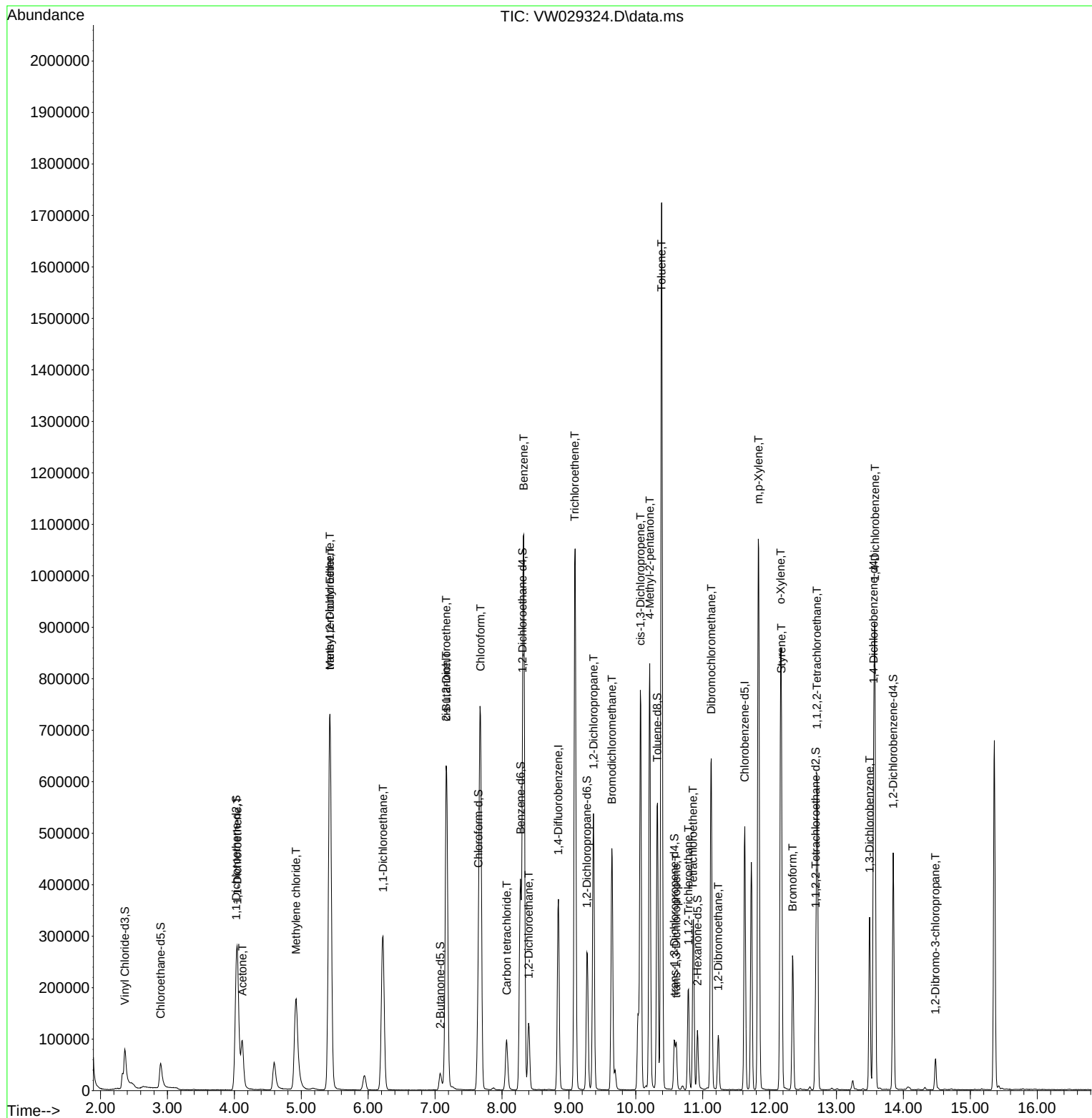
45) 1,1,2-Trichloroethane	10.788	97	59522	19.613	ug/L	92
46) Tetrachloroethene	10.855	164	70373	24.332	ug/L	85
49) Dibromochloromethane	11.129	129	328549	103.563	ug/L	97
50) 1,2-Dibromoethane	11.233	107	70714	25.957	ug/L	95
53) m,p-Xylene	11.837	106	326844	49.447	ug/L	97
54) o-Xylene	12.166	106	143133	23.169	ug/L	96
55) Styrene	12.178	104	245251	22.769	ug/L	96
57) 1,1,2,2-Tetrachloroethane	12.708	83	291162	77.560	ug/L	95
59) Bromoform	12.343	173	110117	64.767	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	119610	16.721	ug/L	92
65) 1,4-Dichlorobenzene	13.574	146	295064	38.769	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.476	75	15666	24.810	ug/L	97

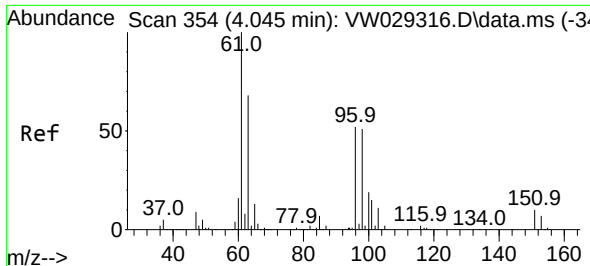
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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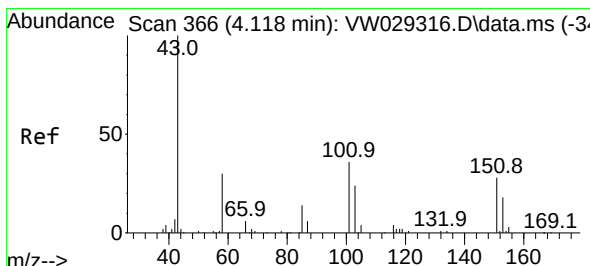
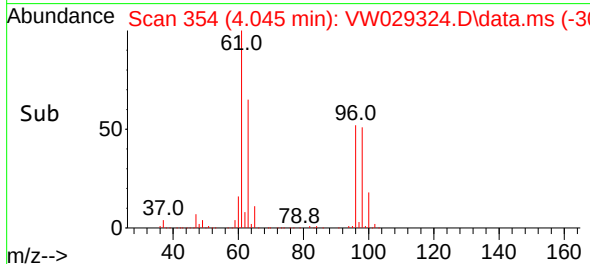
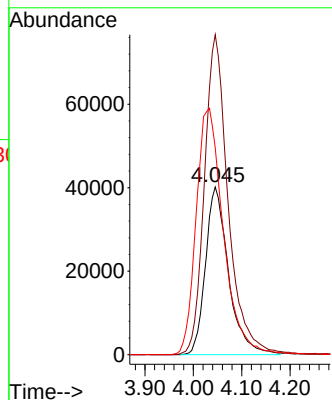
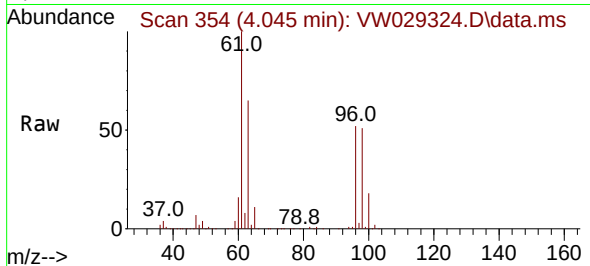




#12
1,1-Dichloroethene
Concen: 38.738 ug/L
RT: 4.045 min Scan# 354
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

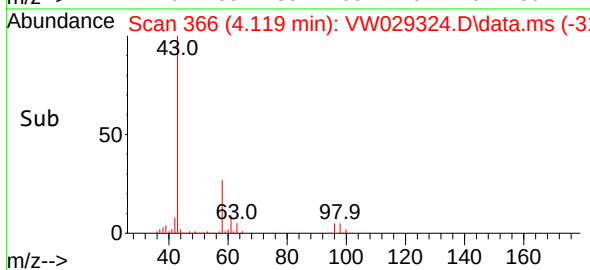
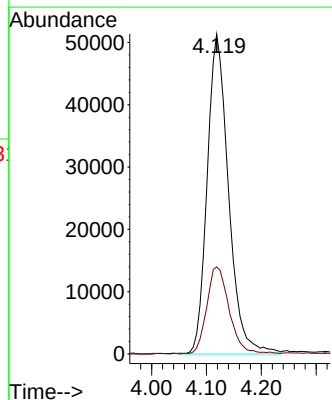
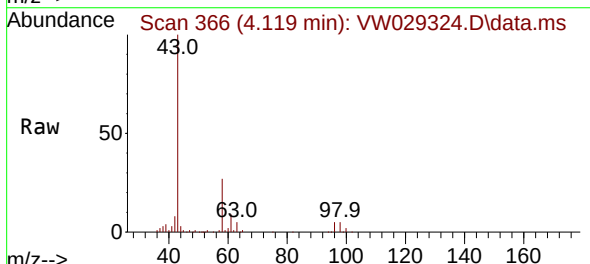
Instrument :
MSVOA_W
ClientSampleId :
A4DJ7

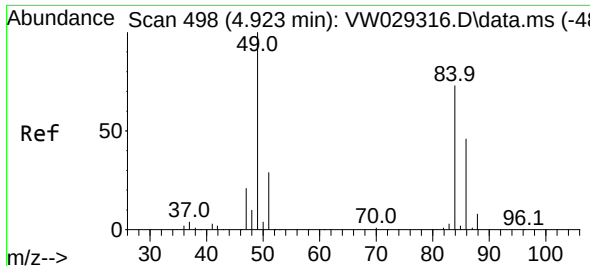
Tgt Ion: 96 Resp: 132760
Ion Ratio Lower Upper
96 100
61 190.9 140.1 260.3
63 123.4 122.0 226.6



#13
Acetone
Concen: 133.347 ug/L
RT: 4.119 min Scan# 366
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

Tgt Ion: 43 Resp: 138799
Ion Ratio Lower Upper
43 100
58 28.3 0.0 61.4

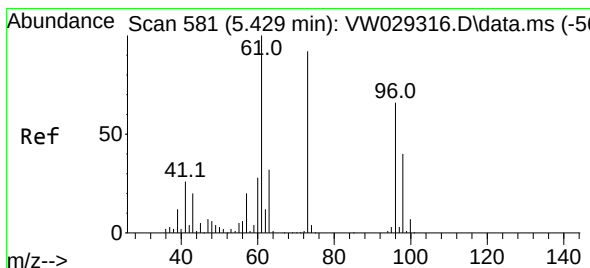
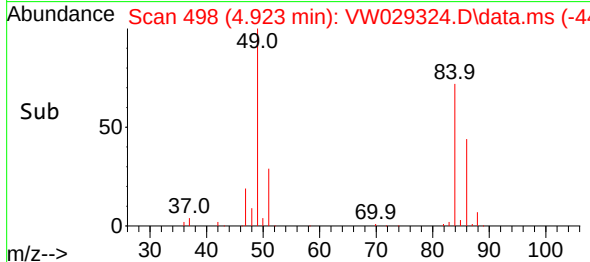
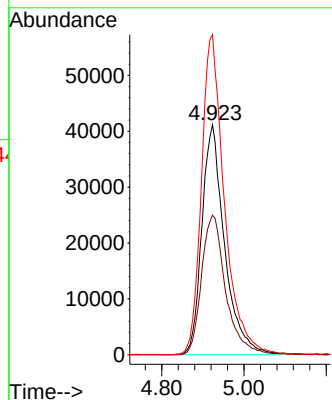
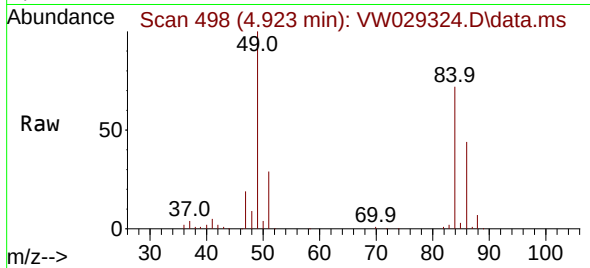




#16
Methylene chloride
Concen: 30.274 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

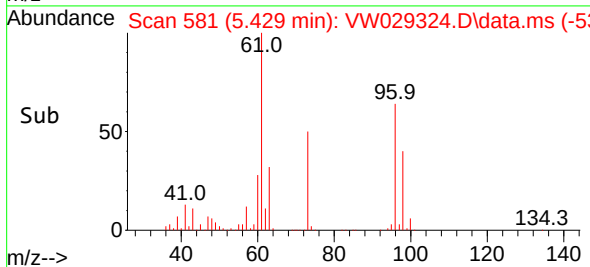
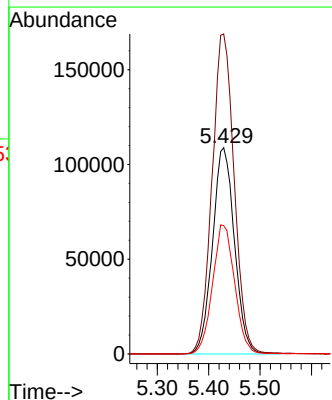
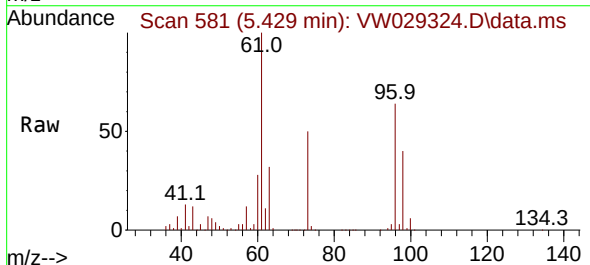
Instrument :
MSVOA_W
ClientSampleId :
A4DJ7

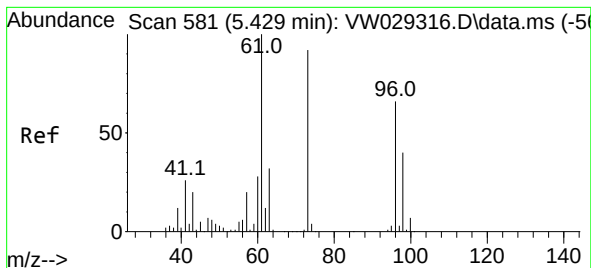
Tgt Ion: 84 Resp: 157449
Ion Ratio Lower Upper
84 100
86 60.7 41.4 77.0
49 139.2 95.7 177.7



#17
trans-1,2-Dichloroethene
Concen: 85.128 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

Tgt Ion: 96 Resp: 323994
Ion Ratio Lower Upper
96 100
61 155.2 101.5 188.5
98 62.2 43.3 80.3





#18

Methyl tert-butyl Ether

Concen: 47.473 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.000 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

Instrument :

MSVOA_W

ClientSampleId :

A4DJ7

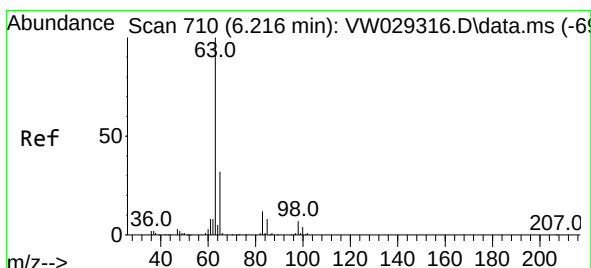
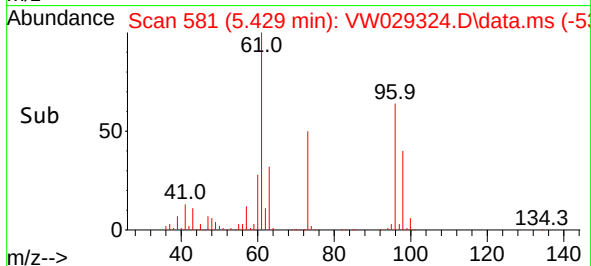
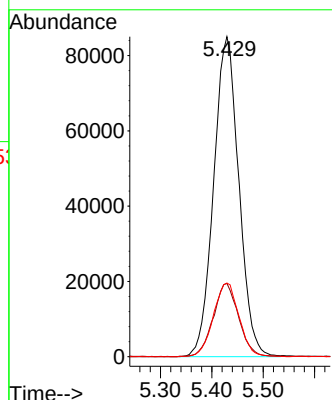
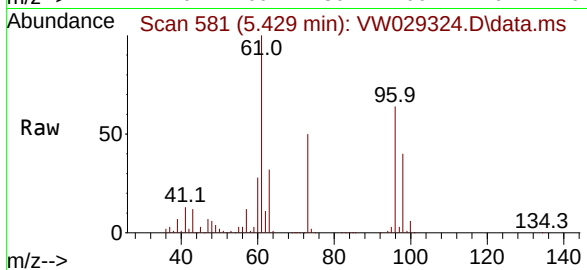
Tgt Ion: 73 Resp: 289074

Ion Ratio Lower Upper

73 100

43 23.1 19.5 29.3

57 23.5 18.4 27.6



#19

1,1-Dichloroethane

Concen: 54.522 ug/L

RT: 6.222 min Scan# 711

Delta R.T. 0.006 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

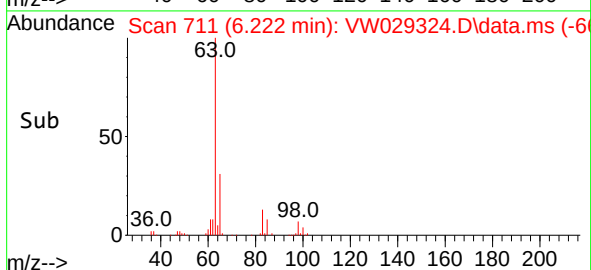
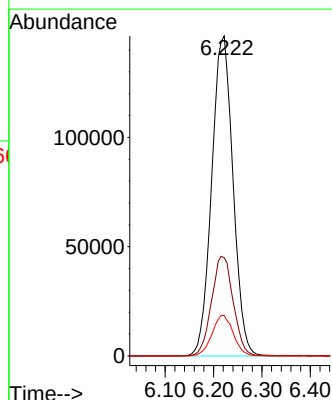
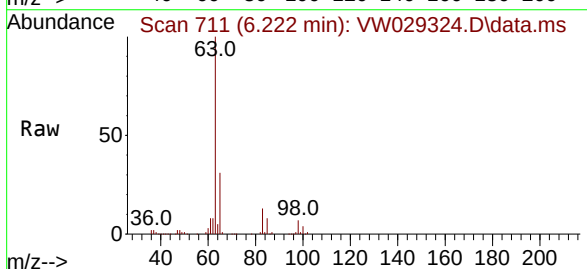
Tgt Ion: 63 Resp: 448178

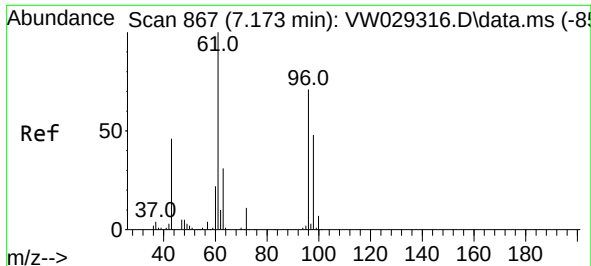
Ion Ratio Lower Upper

63 100

65 30.7 23.4 43.4

83 12.6 8.9 16.5

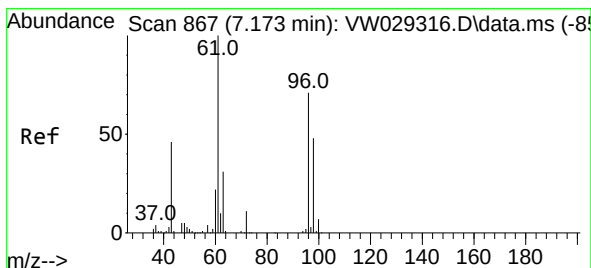
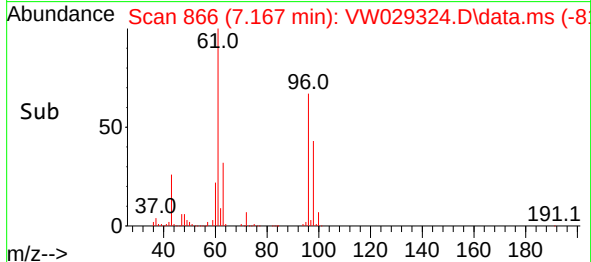
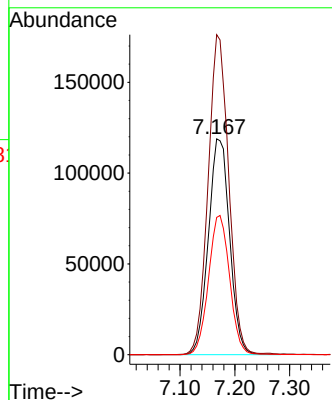
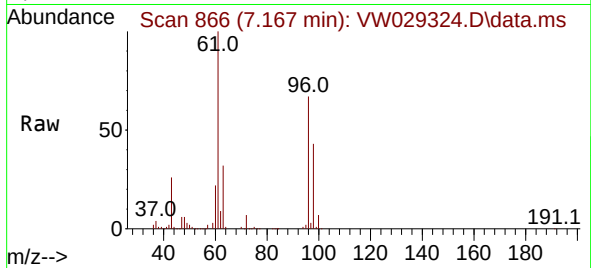




#20
 cis-1,2-Dichloroethene
 Concen: 76.292 ug/L
 RT: 7.167 min Scan# 866
 Delta R.T. -0.006 min
 Lab File: VW029324.D
 Acq: 24 Jun 2024 13:58

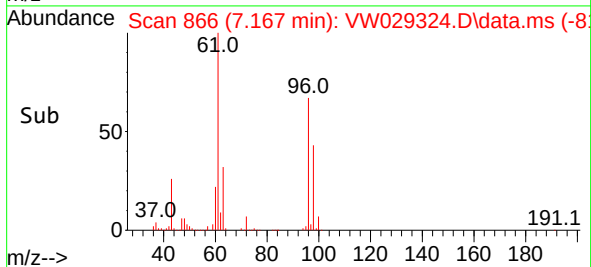
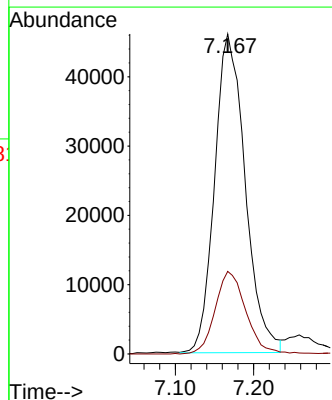
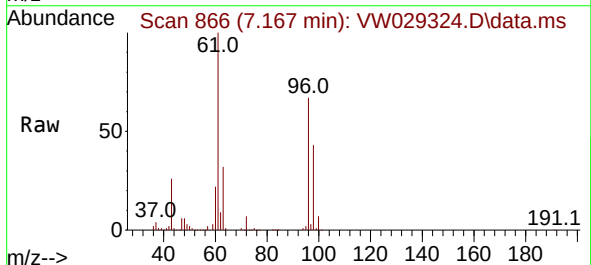
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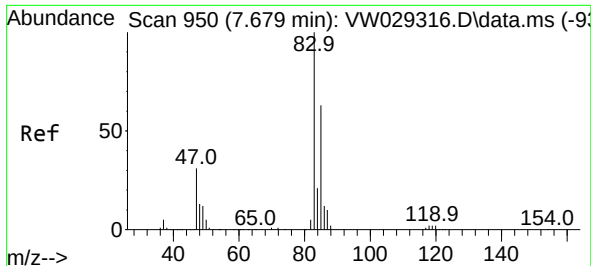
Tgt Ion: 96 Resp: 320195
 Ion Ratio Lower Upper
 96 100
 61 148.3 97.8 181.6
 98 63.6 43.0 79.8



#22
 2-Butanone
 Concen: 87.553 ug/L
 RT: 7.167 min Scan# 866
 Delta R.T. -0.006 min
 Lab File: VW029324.D
 Acq: 24 Jun 2024 13:58

Tgt Ion: 43 Resp: 124924
 Ion Ratio Lower Upper
 43 100
 72 25.8 11.9 35.7

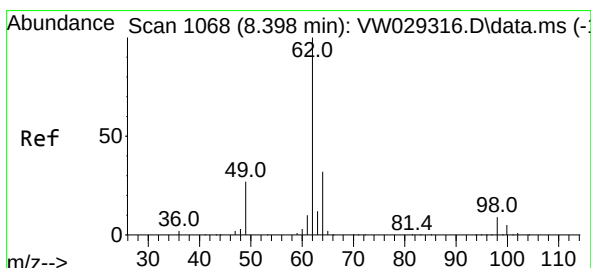
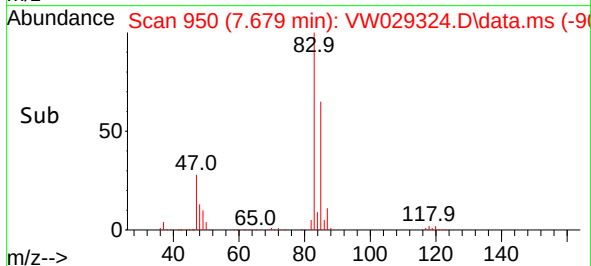
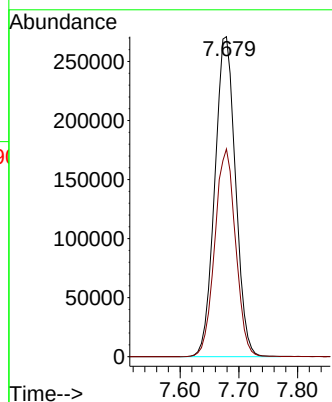
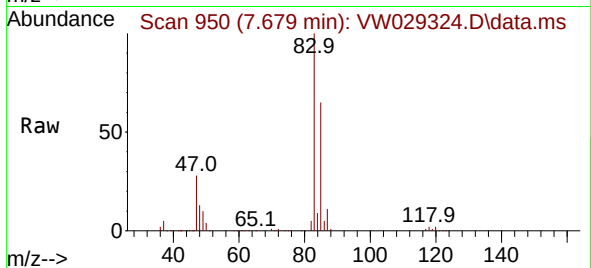




#25
Chloroform
Concen: 82.749 ug/L
RT: 7.679 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

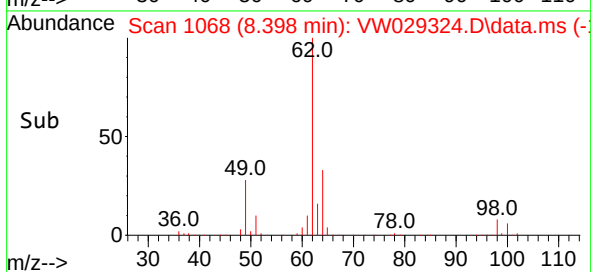
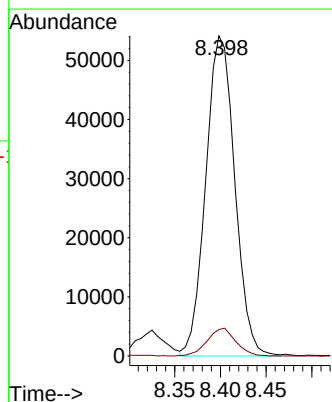
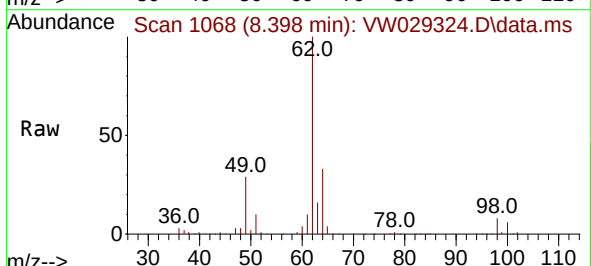
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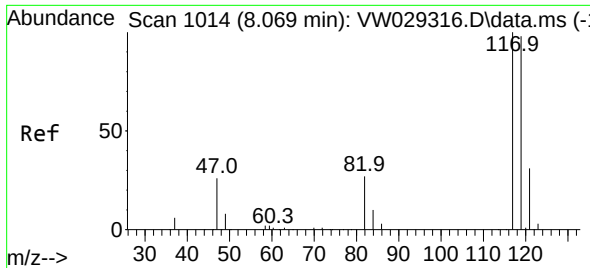
Tgt Ion: 83 Resp: 664208
Ion Ratio Lower Upper
83 100
85 64.9 44.4 82.4



#27
1,2-Dichloroethane
Concen: 20.203 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

Tgt Ion: 62 Resp: 119599
Ion Ratio Lower Upper
62 100
98 8.2 6.6 10.0

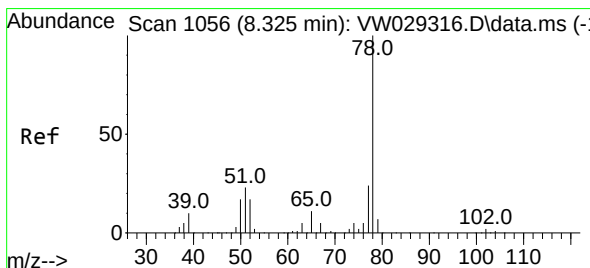
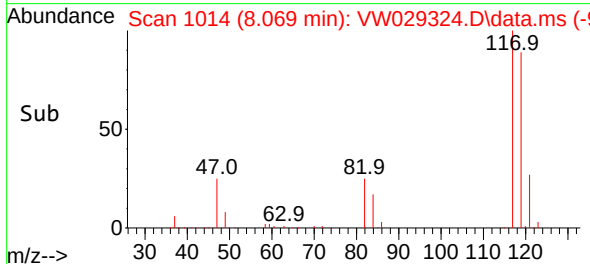
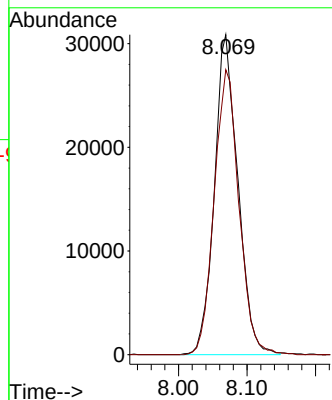
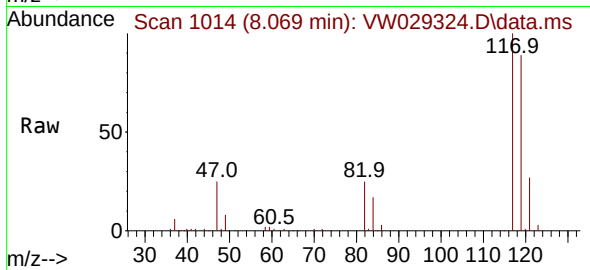




#31
Carbon tetrachloride
Concen: 13.992 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

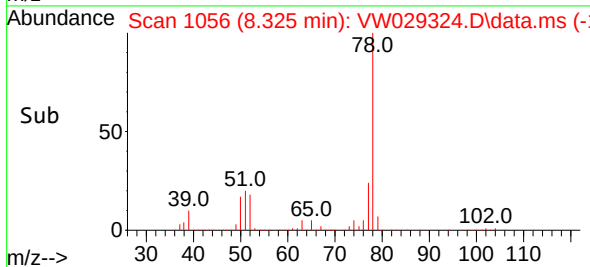
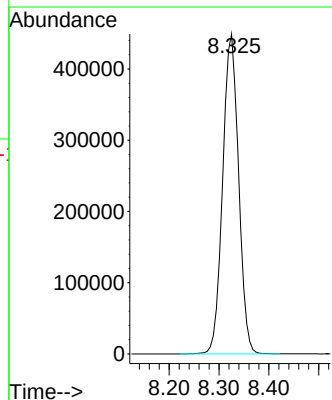
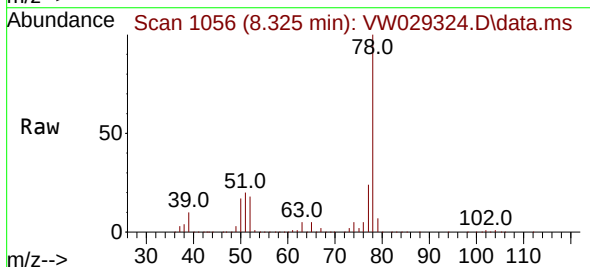
Instrument :
MSVOA_W
ClientSampleId :
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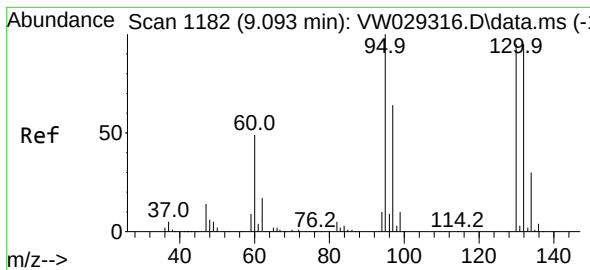
Tgt Ion:117 Resp: 73356
Ion Ratio Lower Upper
117 100
119 94.1 79.0 118.4



#33
Benzene
Concen: 64.191 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

Tgt Ion: 78 Resp: 995444





#34

Trichloroethene

Concen: 89.028 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.006 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

Instrument :

MSVOA_W

ClientSampleId :

A4DJ7

Tgt Ion: 95 Resp: 368335

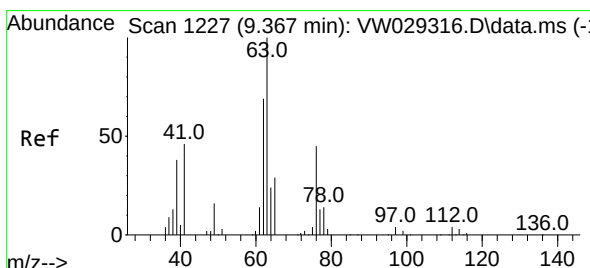
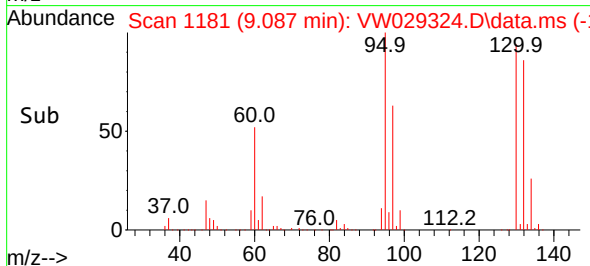
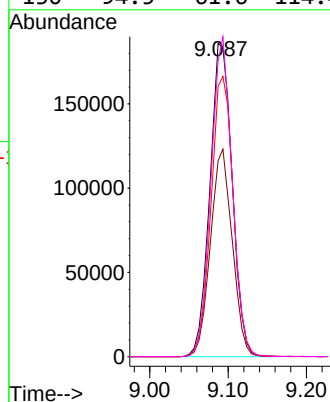
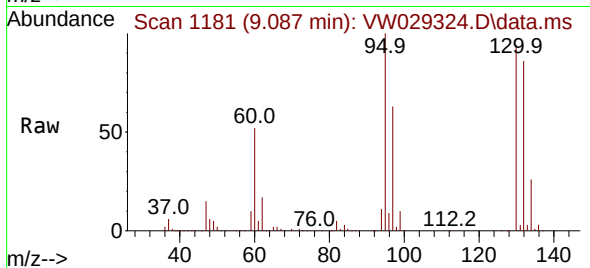
Ion Ratio Lower Upper

95 100

97 62.6 45.7 84.9

132 86.3 66.4 123.4

130 94.5 61.6 114.4



#37

1,2-Dichloropropane

Concen: 44.729 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW029324.D

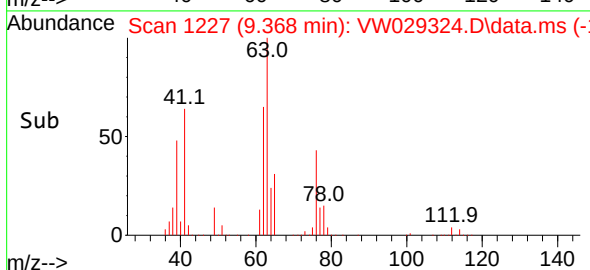
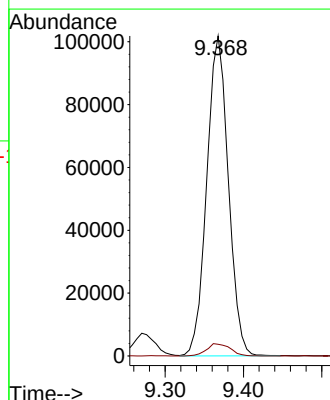
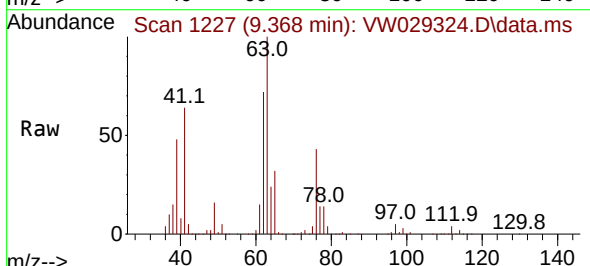
Acq: 24 Jun 2024 13:58

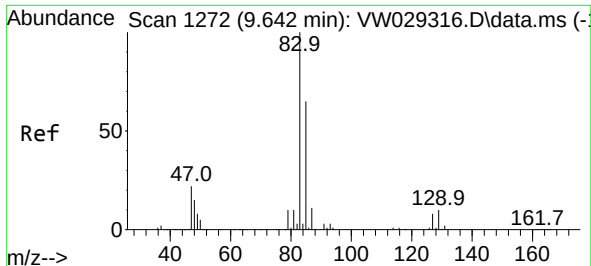
Tgt Ion: 63 Resp: 194907

Ion Ratio Lower Upper

63 100

112 4.2 3.8 5.6

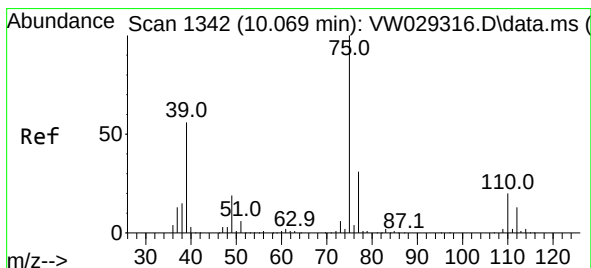
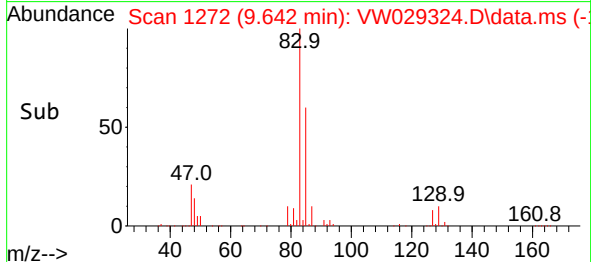
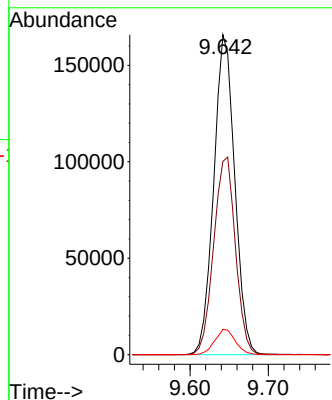
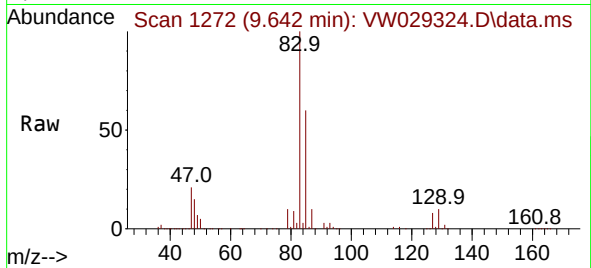




#38
Bromodichloromethane
Concen: 58.159 ug/L
RT: 9.642 min Scan# 1272
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

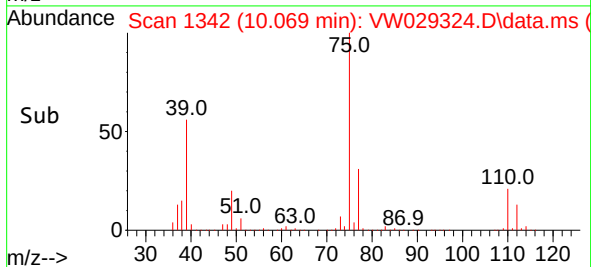
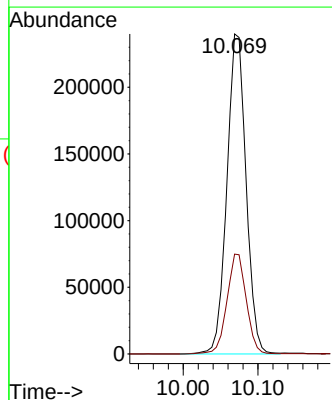
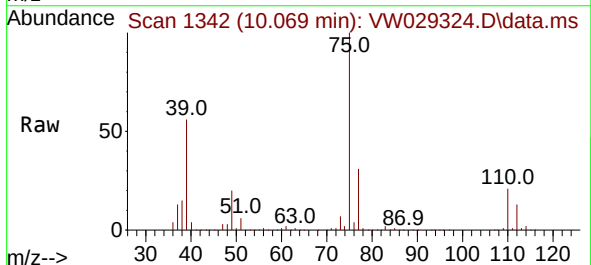
Instrument :
MSVOA_W
ClientSampleId :
A4DJ7

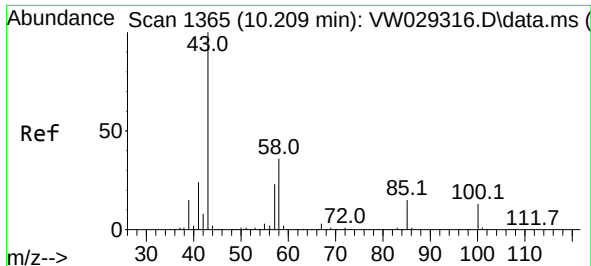
Tgt Ion: 83 Resp: 309862
Ion Ratio Lower Upper
83 100
85 60.4 45.1 83.9
127 7.9 5.8 8.6



#39
cis-1,3-Dichloropropene
Concen: 69.630 ug/L
RT: 10.069 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

Tgt Ion: 75 Resp: 428904
Ion Ratio Lower Upper
75 100
77 31.2 22.7 42.1





#40

4-Methyl-2-pentanone

Concen: 204.954 ug/L

RT: 10.209 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

Instrument :

MSVOA_W

ClientSampleId :

A4DJ7

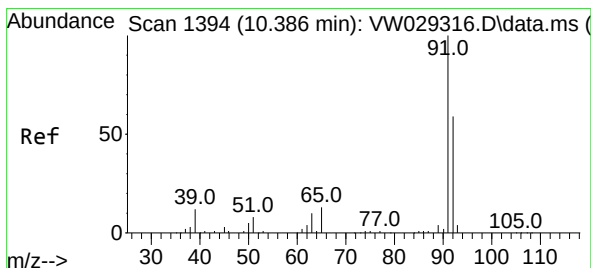
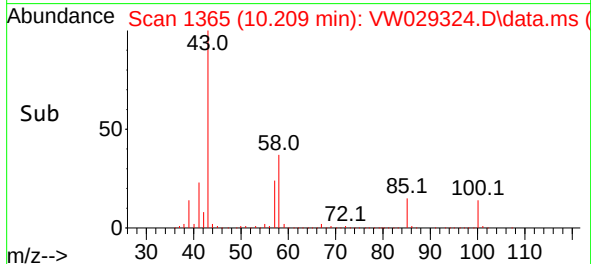
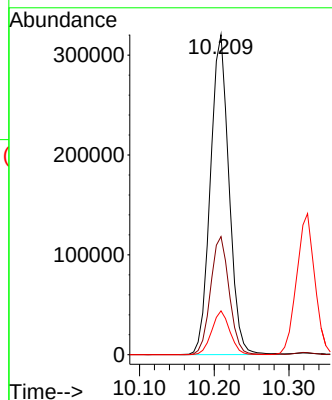
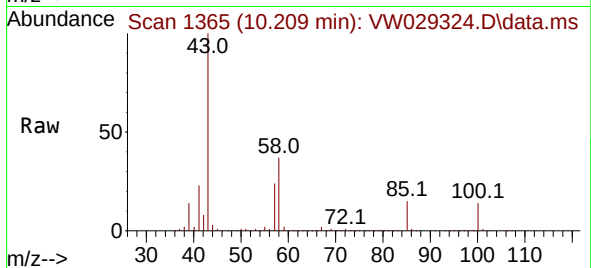
Tgt Ion: 43 Resp: 553547

Ion Ratio Lower Upper

43 100

58 37.0 28.2 42.4

100 13.4 11.0 16.4



#42

Toluene

Concen: 75.536 ug/L

RT: 10.386 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VW029324.D

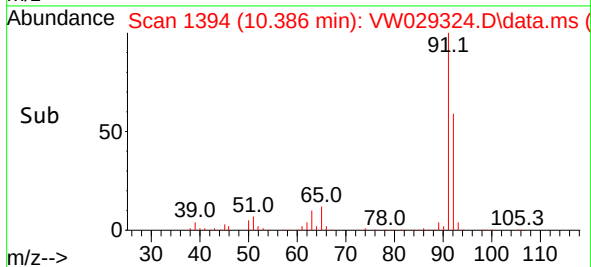
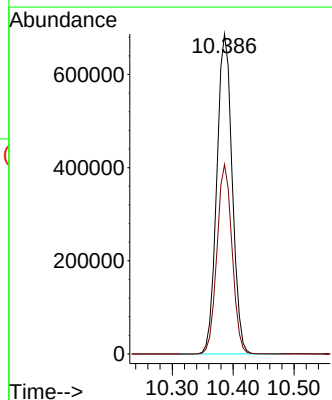
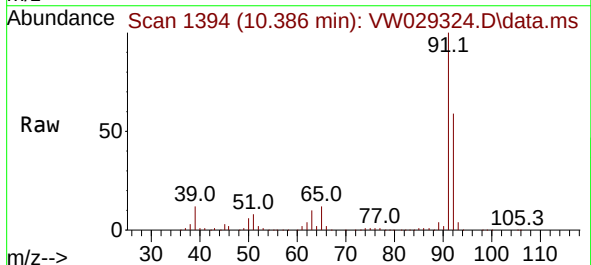
Acq: 24 Jun 2024 13:58

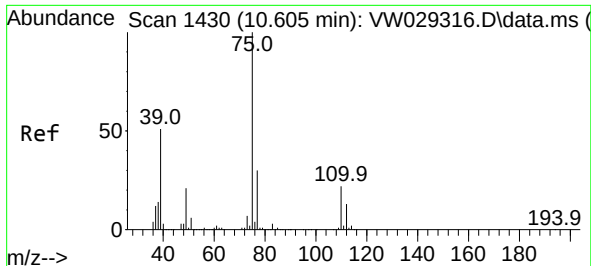
Tgt Ion: 91 Resp: 1204209

Ion Ratio Lower Upper

91 100

92 59.2 39.3 73.1

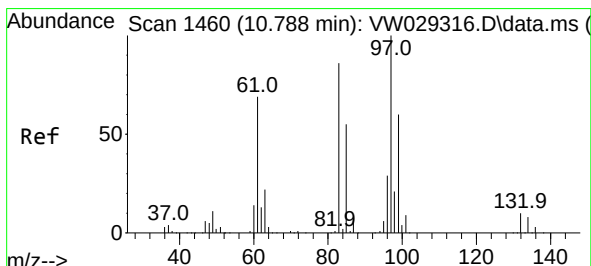
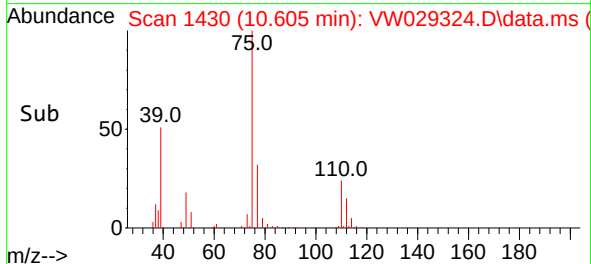
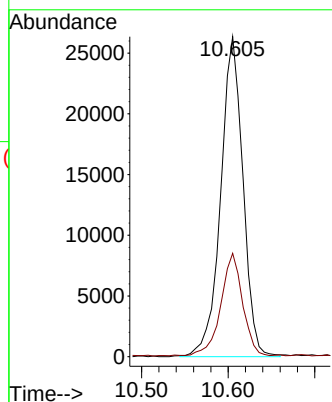
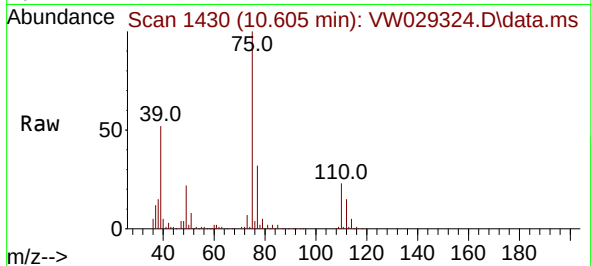




#44
trans-1,3-Dichloropropene
Concen: 9.056 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

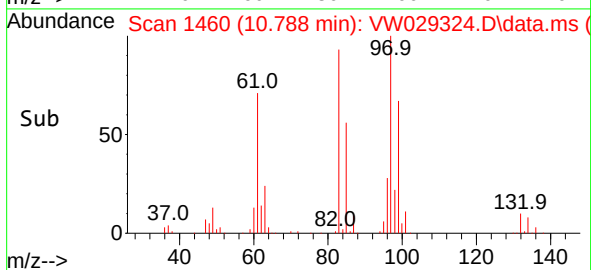
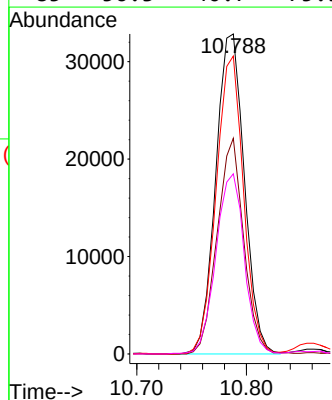
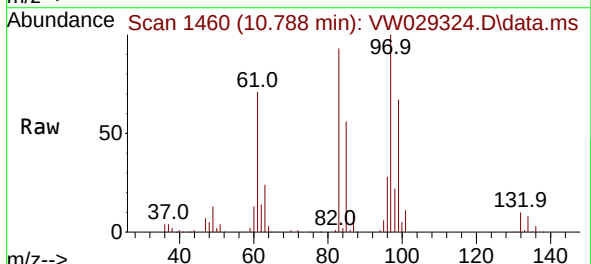
Instrument :
MSVOA_W
ClientSampleId :
A4DJ7

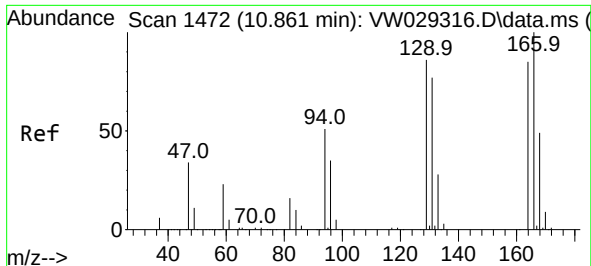
Tgt Ion: 75 Resp: 47100
Ion Ratio Lower Upper
75 100
77 32.3 22.7 42.1



#45
1,1,2-Trichloroethane
Concen: 19.613 ug/L
RT: 10.788 min Scan# 1460
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

Tgt Ion: 97 Resp: 59522
Ion Ratio Lower Upper
97 100
99 67.4 42.3 78.5
83 93.1 57.7 107.1
85 56.3 40.7 75.5

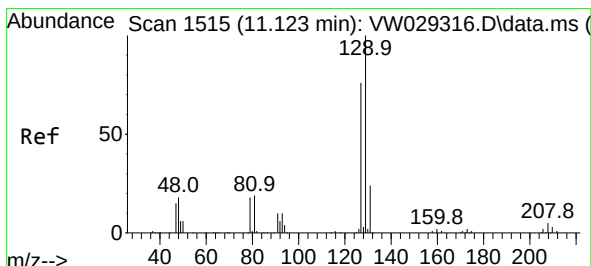
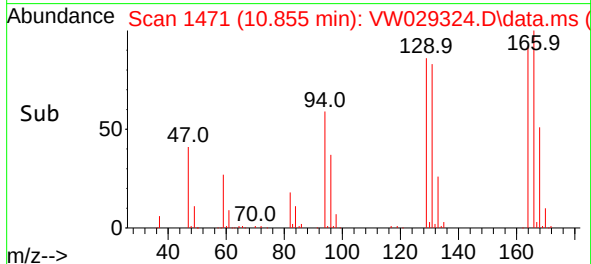
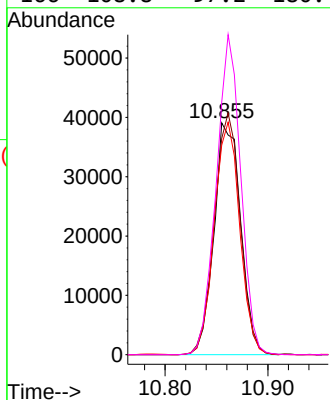
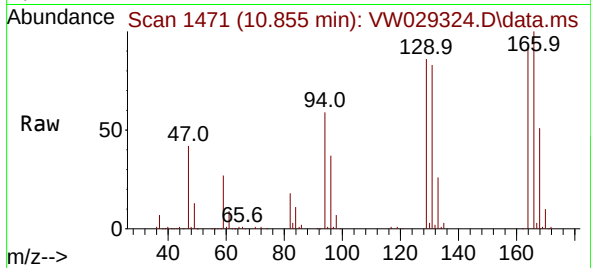




#46
Tetrachloroethene
Concen: 24.332 ug/L
RT: 10.855 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

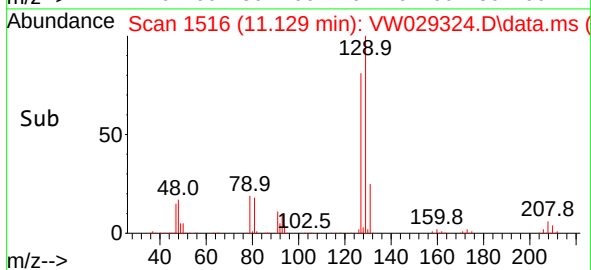
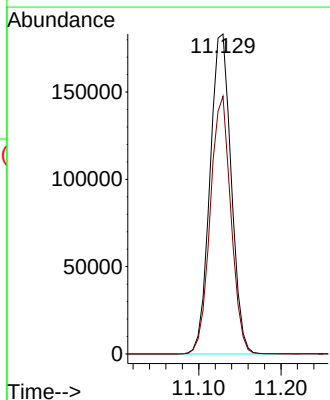
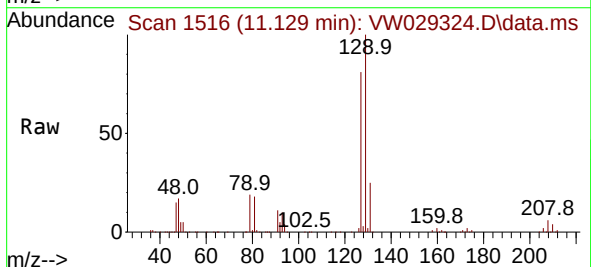
Instrument :
MSVOA_W
ClientSampleId :
A4DJ7

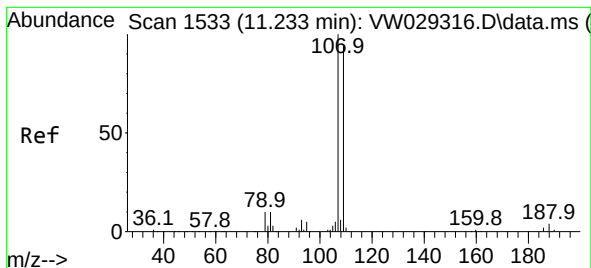
Tgt Ion:164 Resp: 70373
Ion Ratio Lower Upper
164 100
129 93.2 68.5 127.3
131 90.4 71.8 133.4
166 108.8 97.2 180.4



#49
Dibromochloromethane
Concen: 103.563 ug/L
RT: 11.129 min Scan# 1516
Delta R.T. 0.006 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

Tgt Ion:129 Resp: 328549
Ion Ratio Lower Upper
129 100
127 80.6 54.8 101.8

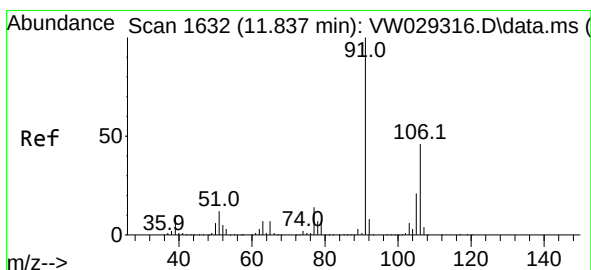
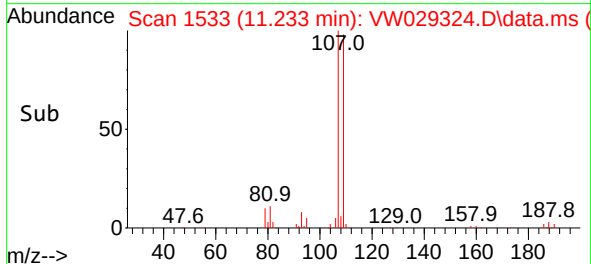
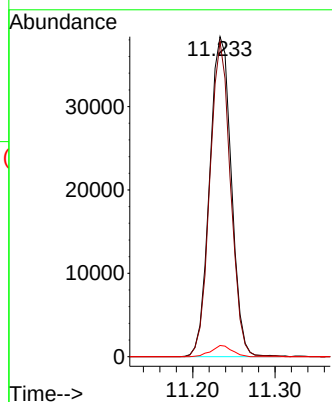
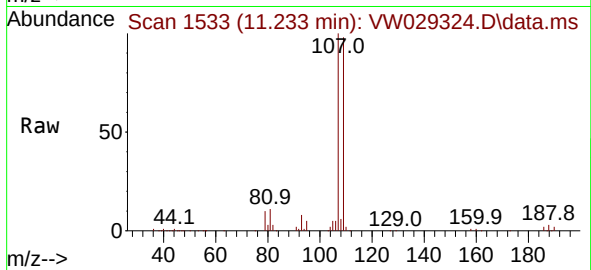




#50
1,2-Dibromoethane
Concen: 25.957 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

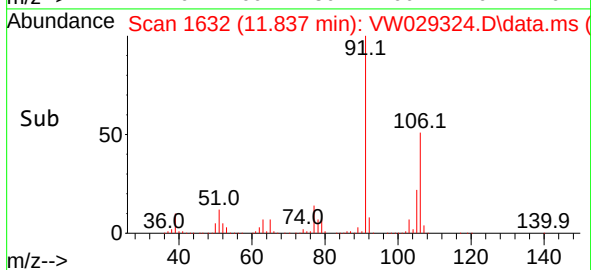
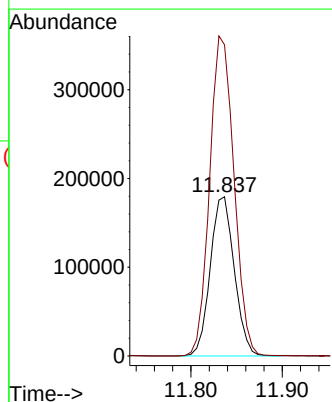
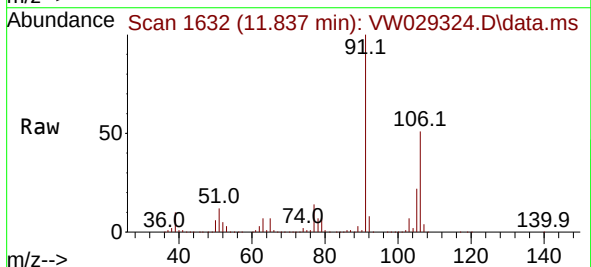
Instrument :
MSVOA_W
ClientSampleId :
A4DJ7

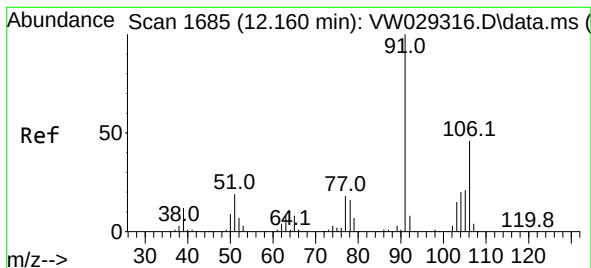
Tgt Ion:107 Resp: 70714
Ion Ratio Lower Upper
107 100
109 98.4 65.5 121.6
188 3.5 2.6 4.0



#53
m,p-Xylene
Concen: 49.447 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW029324.D
Acq: 24 Jun 2024 13:58

Tgt Ion:106 Resp: 326844
Ion Ratio Lower Upper
106 100
91 195.4 140.5 260.9





#54

o-Xylene

Concen: 23.169 ug/L

RT: 12.166 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

Instrument :

MSVOA_W

ClientSampleId :

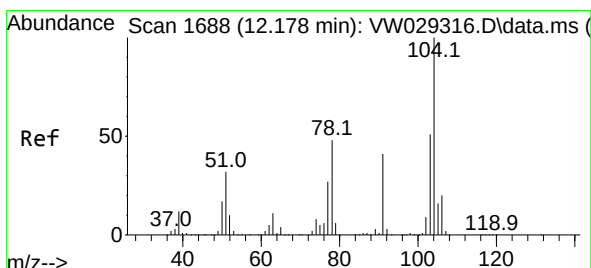
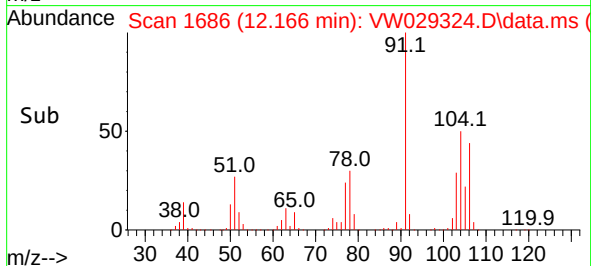
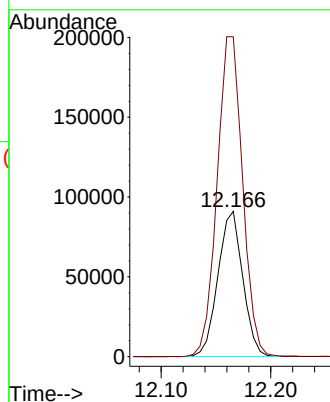
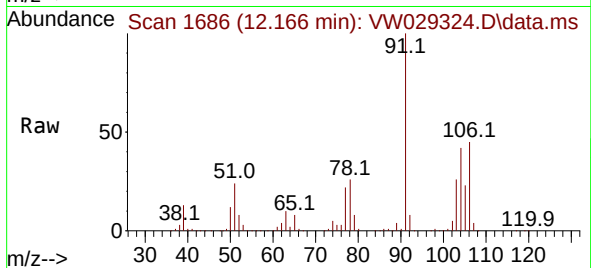
A4DJ7

Tgt Ion:106 Resp: 143133

Ion Ratio Lower Upper

106 100

91 220.3 149.9 278.5



#55

Styrene

Concen: 22.769 ug/L

RT: 12.178 min Scan# 1688

Delta R.T. 0.000 min

Lab File: VW029324.D

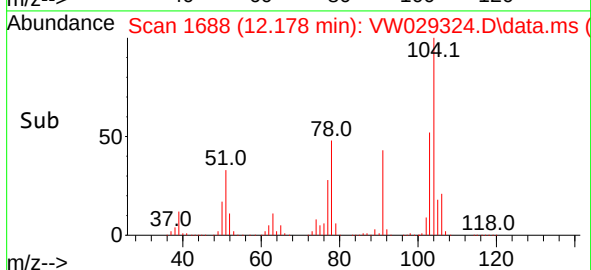
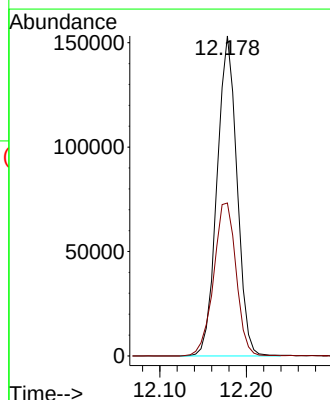
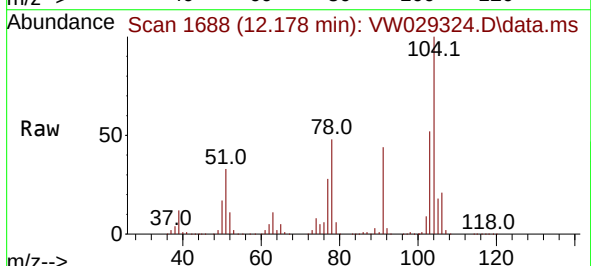
Acq: 24 Jun 2024 13:58

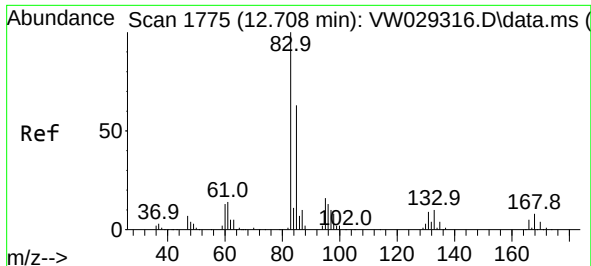
Tgt Ion:104 Resp: 245251

Ion Ratio Lower Upper

104 100

78 47.8 35.4 65.7





#57

1,1,2,2-Tetrachloroethane

Concen: 77.560 ug/L

RT: 12.708 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

Instrument :

MSVOA_W

ClientSampleId :

A4DJ7

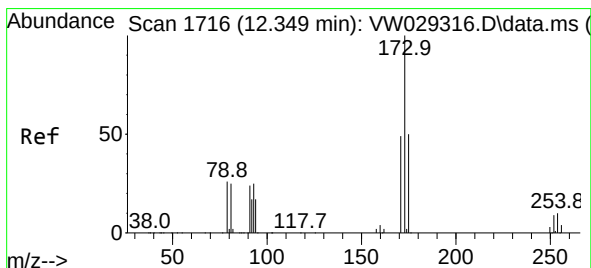
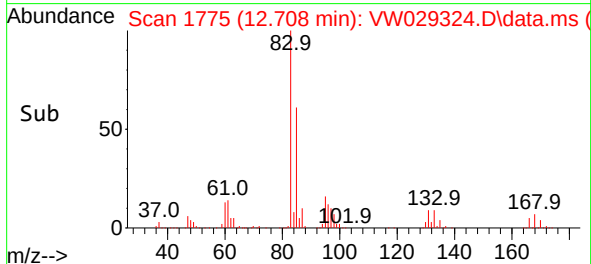
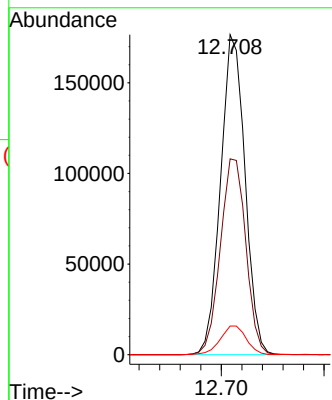
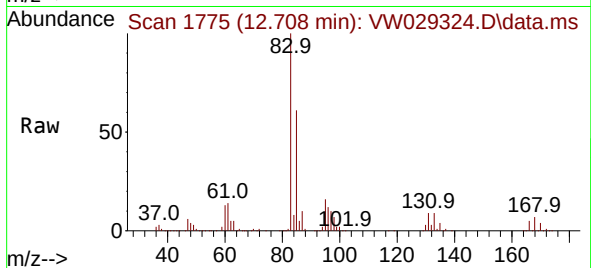
Tgt Ion: 83 Resp: 291162

Ion Ratio Lower Upper

83 100

85 61.2 45.8 85.0

131 8.9 7.8 11.6



#59

Bromoform

Concen: 64.767 ug/L

RT: 12.343 min Scan# 1715

Delta R.T. -0.006 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

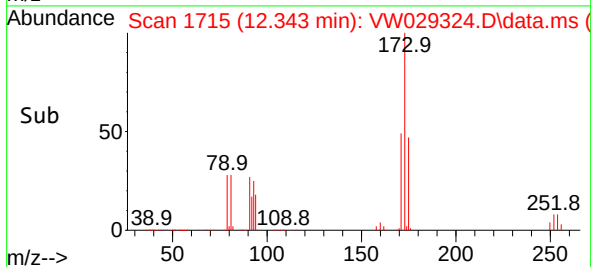
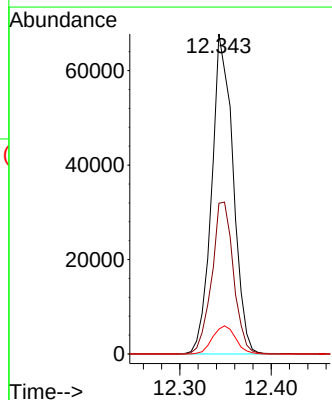
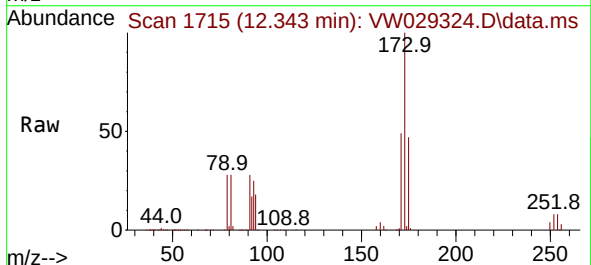
Tgt Ion:173 Resp: 110117

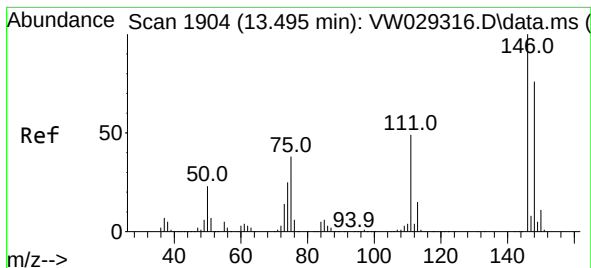
Ion Ratio Lower Upper

173 100

175 48.2 37.8 56.8

254 9.4 7.8 11.6





#64

1,3-Dichlorobenzene

Concen: 16.721 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

Instrument :

MSVOA_W

ClientSampleId :

A4DJ7

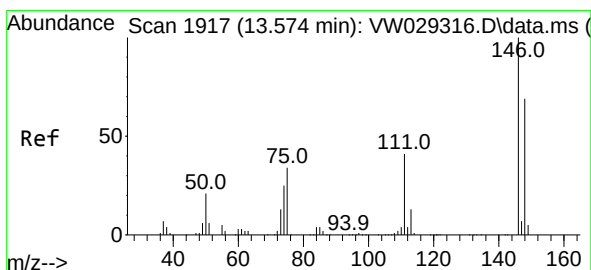
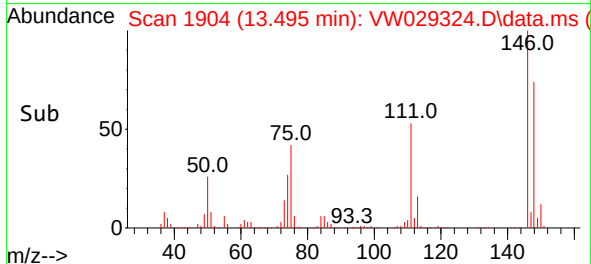
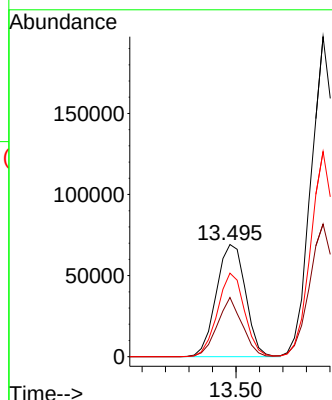
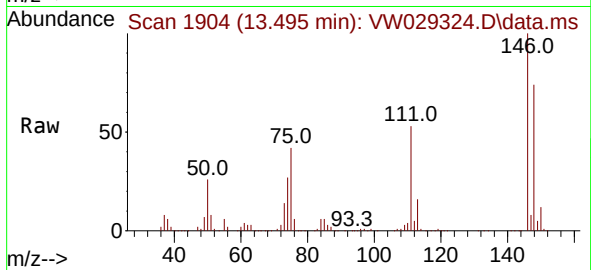
Tgt Ion:146 Resp: 119610

Ion Ratio Lower Upper

146 100

111 52.7 33.0 61.2

148 74.5 47.5 88.1



#65

1,4-Dichlorobenzene

Concen: 38.769 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW029324.D

Acq: 24 Jun 2024 13:58

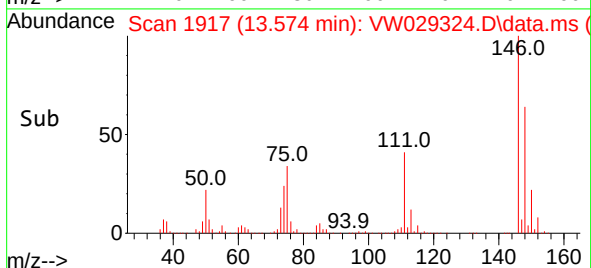
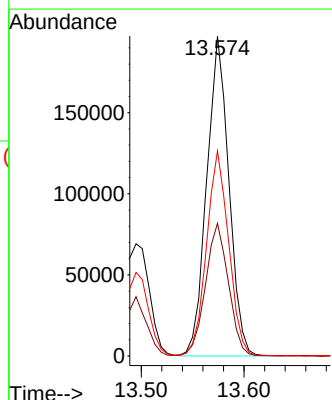
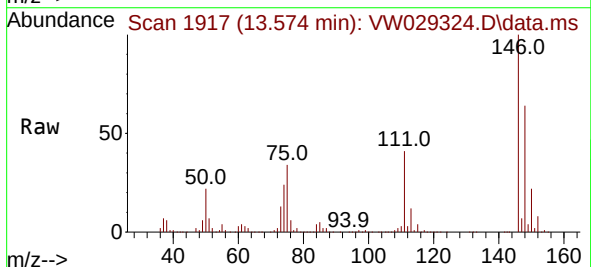
Tgt Ion:146 Resp: 295064

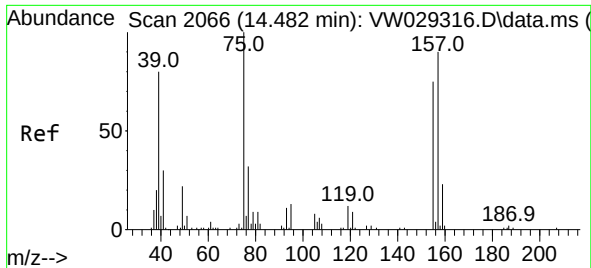
Ion Ratio Lower Upper

146 100

111 41.4 28.9 53.7

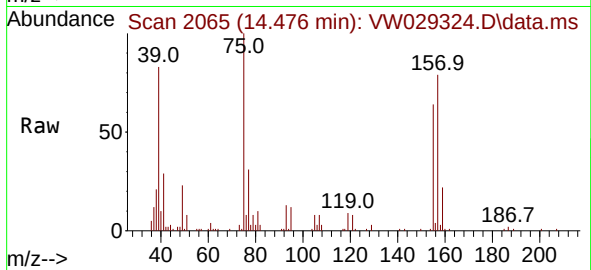
148 64.1 42.0 78.0





#68
 1,2-Dibromo-3-chloropropane
 Concen: 24.810 ug/L
 RT: 14.476 min Scan# 2065
 Delta R.T. -0.006 min
 Lab File: VW029324.D
 Acq: 24 Jun 2024 13:58

Instrument :
 MSVOA_W
 ClientSampleId :
 A4DJ7



Tgt Ion:	75	Resp:	15666
Ion	Ratio	Lower	Upper
75	100		
155	63.7	51.0	76.6
157	78.8	58.8	88.2

