

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071724\
 Data File : VW029617.D
 Acq On : 17 Jul 2024 15:32
 Operator : SY/MD
 Sample : P3263-23DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A4DH4DL

Quant Time: Jul 18 02:21:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM070824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Jul 18 02:17:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	228590	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	213544	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	104995	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	68833	18.640	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.560%
7) Chloroethane-d5	2.899	69	57520	21.633	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.520%
11) 1,1-Dichloroethene-d2	4.021	65	35251	21.258	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.040%
21) 2-Butanone-d5	7.075	46	47746	43.072	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.140%
24) Chloroform-d	7.654	84	168300	25.468	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.880%
26) 1,2-Dichloroethane-d4	8.307	65	93028	24.000	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.000%
32) Benzene-d6	8.276	84	294872	23.050	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.200%
36) 1,2-Dichloropropane-d6	9.270	67	97326	23.795	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.160%
41) Toluene-d8	10.318	98	267424	23.770	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.080%
43) trans-1,3-Dichloroprop...	10.574	79	37824	21.838	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.360%
47) 2-Hexanone-d5	10.922	63	33230	44.710	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.420%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	78462	23.627	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.520%
66) 1,2-Dichlorobenzene-d4	13.848	152	82604	22.591	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.360%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	59131	20.801	ug/L	95
13) Acetone	4.118	43	69705	62.302	ug/L	99
16) Methylene chloride	4.923	84	99558	24.327	ug/L	94
17) trans-1,2-Dichloroethene	5.423	96	148773	47.275	ug/L	90
18) Methyl tert-butyl Ether	5.429	73	141967	26.514	ug/L	99
19) 1,1-Dichloroethane	6.215	63	213657	33.060	ug/L	98
20) cis-1,2-Dichloroethene	7.173	96	151242	43.950	ug/L	95
22) 2-Butanone	7.173	43	64505	43.917	ug/L	98
25) Chloroform	7.673	83	323894	51.797	ug/L	98
27) 1,2-Dichloroethane	8.398	62	60675	12.937	ug/L	97
31) Carbon tetrachloride	8.069	117	34433	7.710	ug/L	98
33) Benzene	8.325	78	469802	35.163	ug/L	100
34) Trichloroethene	9.093	95	174441	49.441	ug/L	89
37) 1,2-Dichloropropane	9.367	63	95331	25.803	ug/L	100
38) Bromodichloromethane	9.642	83	151343	33.536	ug/L	96
39) cis-1,3-Dichloropropene	10.068	75	202148	36.428	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	287962	110.590	ug/L	99
42) Toluene	10.385	91	572650	41.896	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	23355	4.910	ug/L	95

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 Quant Title : SFAM01.0
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 Response via : Initial Calibration

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

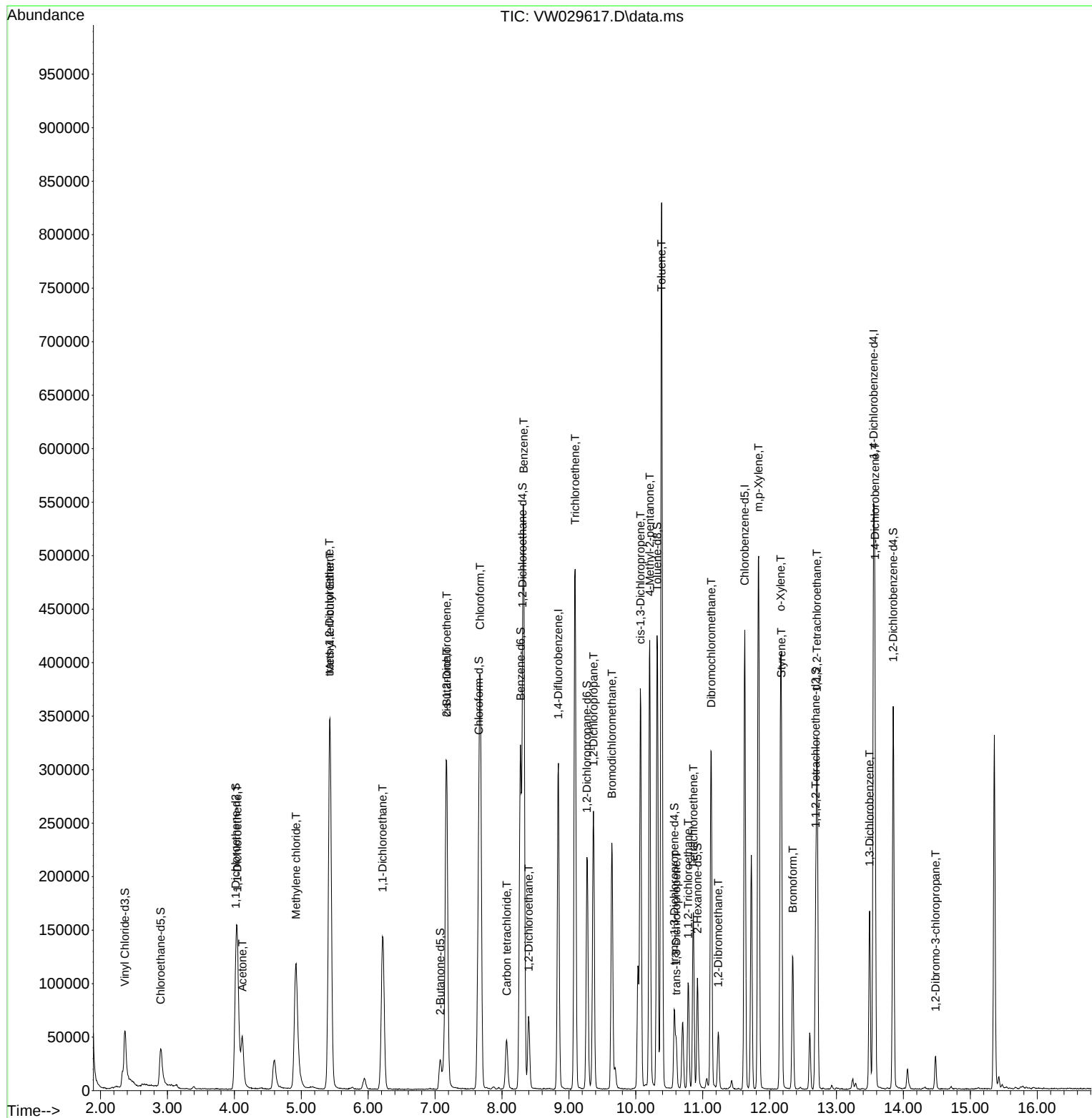
45) 1,1,2-Trichloroethane	10.782	97	29336	11.040	ug/L	98
46) Tetrachloroethene	10.861	164	32896	13.123	ug/L	87
49) Dibromochloromethane	11.129	129	161356	58.351	ug/L	96
50) 1,2-Dibromoethane	11.233	107	35229	13.913	ug/L	95
53) m,p-Xylene	11.836	106	147573	25.959	ug/L	100
54) o-Xylene	12.166	106	66942	12.731	ug/L	100
55) Styrene	12.178	104	114723	12.408	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.708	83	146502	43.710	ug/L	99
59) Bromoform	12.349	173	55471	34.226	ug/L	95
64) 1,3-Dichlorobenzene	13.495	146	60590	9.150	ug/L	99
65) 1,4-Dichlorobenzene	13.574	146	138684	20.443	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.482	75	8308	13.676	ug/L	96

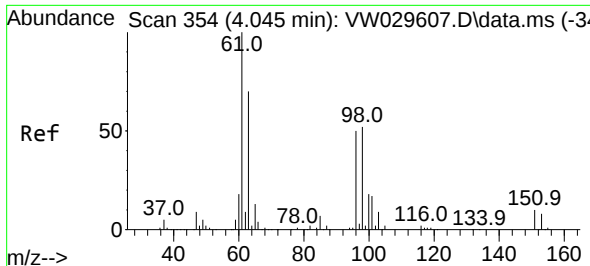
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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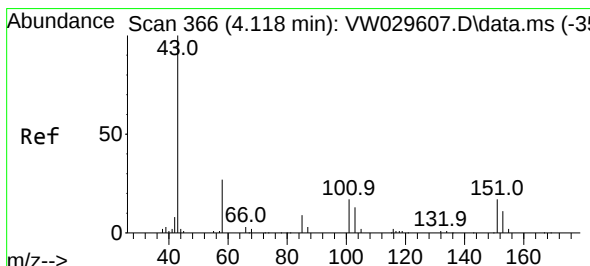
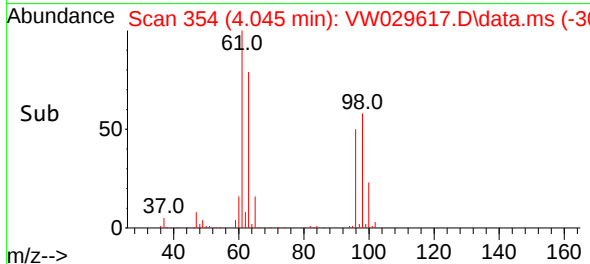
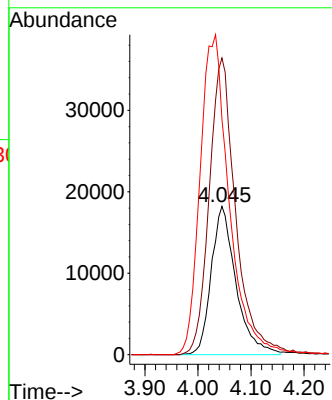
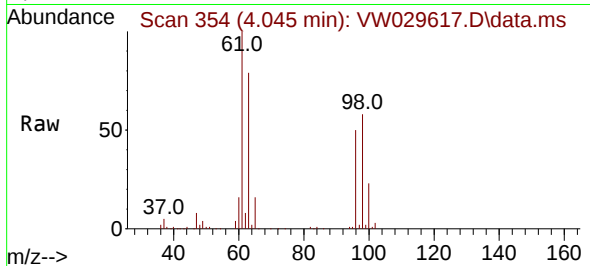




#12
1,1-Dichloroethene
Concen: 20.801 ug/L
RT: 4.045 min Scan# 354
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

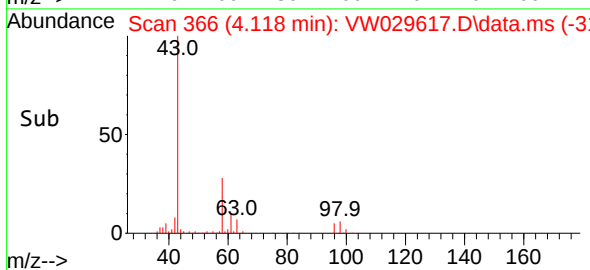
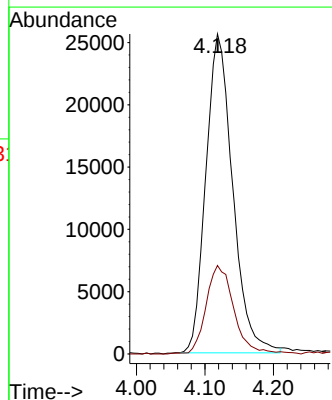
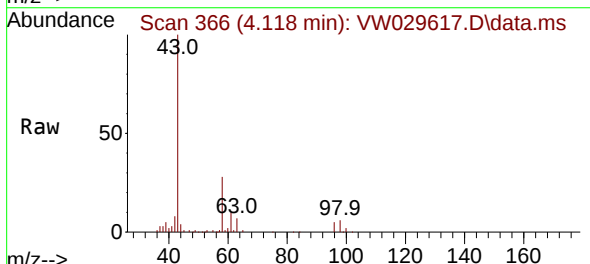
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MSVOA_W
ClientSampleId :
A4DH4DL

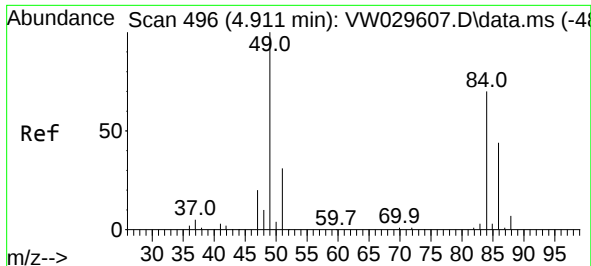
Tgt Ion: 96 Resp: 59131
Ion Ratio Lower Upper
96 100
61 200.0 132.4 245.8
63 158.6 108.4 201.2



#13
Acetone
Concen: 62.302 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion: 43 Resp: 69705
Ion Ratio Lower Upper
43 100
58 27.4 0.0 55.6

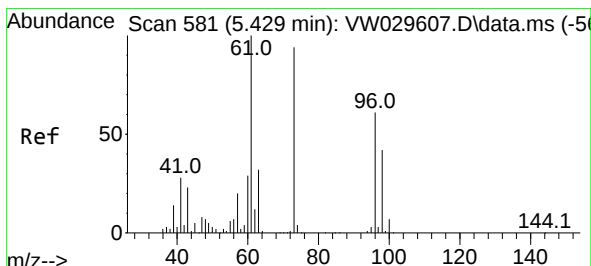
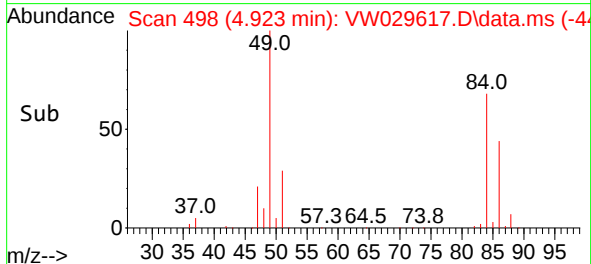
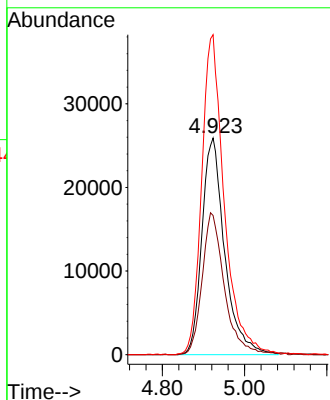
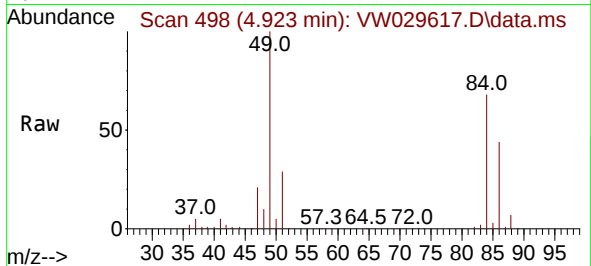




#16
Methylene chloride
Concen: 24.327 ug/L
RT: 4.923 min Scan# 49
Delta R.T. 0.012 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

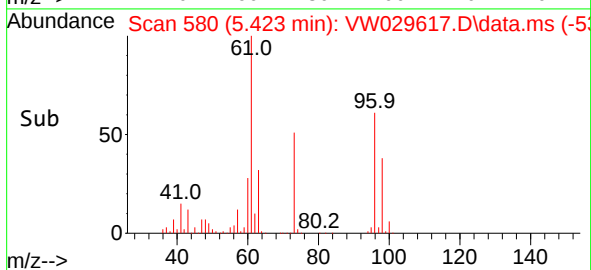
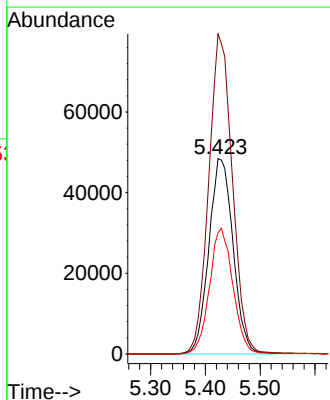
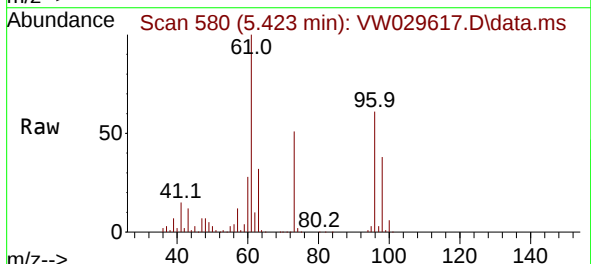
Instrument :
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ClientSampleId :
A4DH4DL

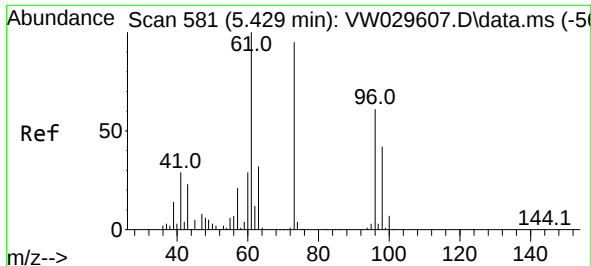
Tgt Ion: 84 Resp: 99558
Ion Ratio Lower Upper
84 100
86 64.3 46.2 85.8
49 147.7 96.7 179.7



#17
trans-1,2-Dichloroethene
Concen: 47.275 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion: 96 Resp: 148773
Ion Ratio Lower Upper
96 100
61 163.7 102.9 191.1
98 62.1 43.9 81.5

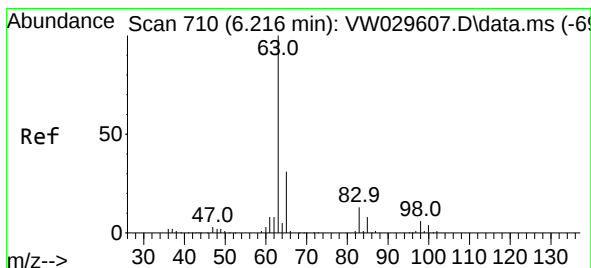
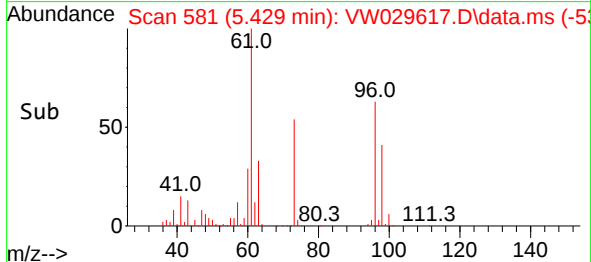
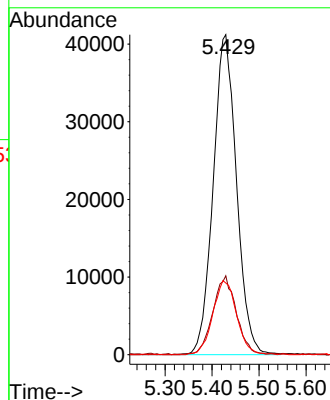
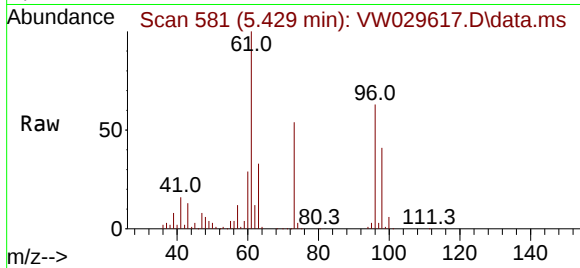




#18
Methyl tert-butyl Ether
Concen: 26.514 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

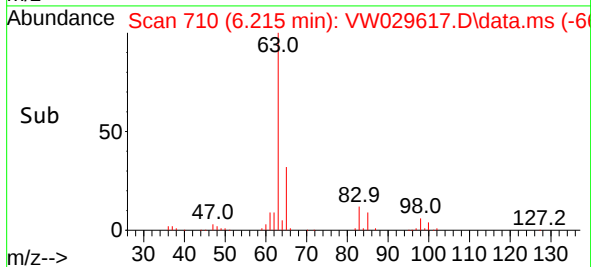
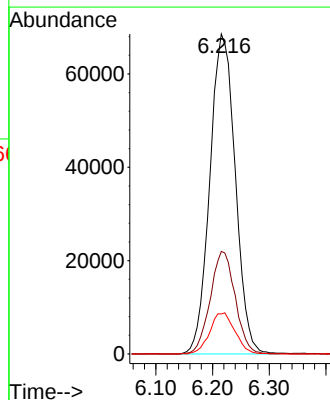
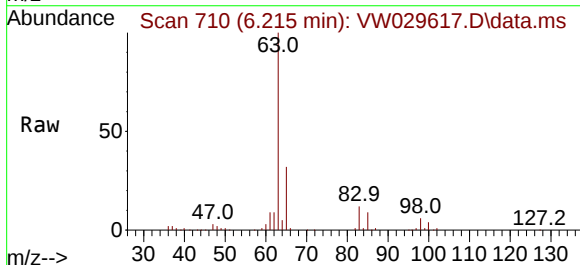
Instrument :
MSVOA_W
ClientSampleId :
A4DH4DL

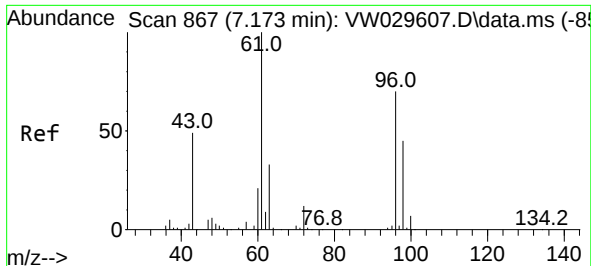
Tgt Ion:	73	Resp:	141967
Ion	Ratio	Lower	Upper
73	100		
43	24.2	18.7	28.1
57	23.6	18.9	28.3



#19
1,1-Dichloroethane
Concen: 33.060 ug/L
RT: 6.215 min Scan# 710
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion:	63	Resp:	213657
Ion	Ratio	Lower	Upper
63	100		
65	32.1	21.5	39.9
83	12.5	8.7	16.1

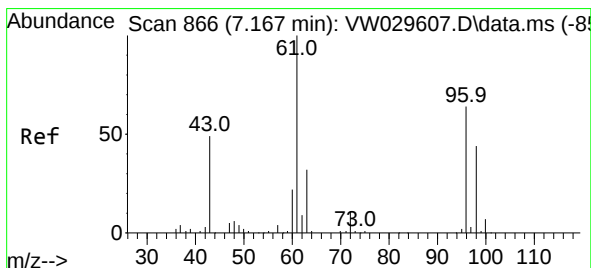
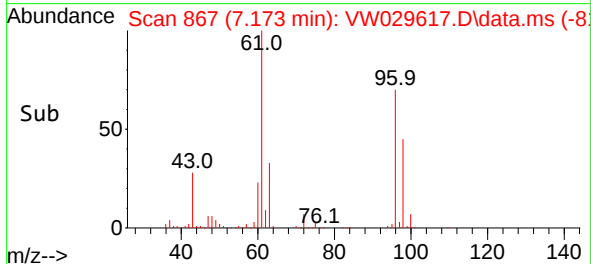
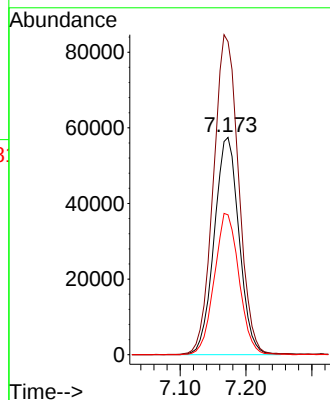
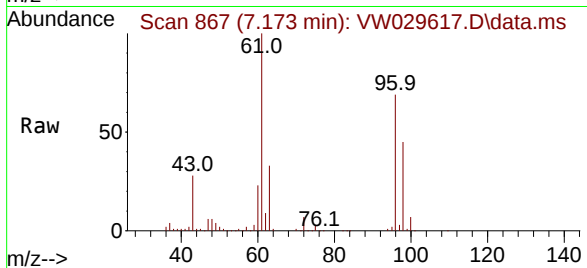




#20
 cis-1,2-Dichloroethene
 Concen: 43.950 ug/L
 RT: 7.173 min Scan# 867
 Delta R.T. -0.000 min
 Lab File: VW029617.D
 Acq: 17 Jul 2024 15:32

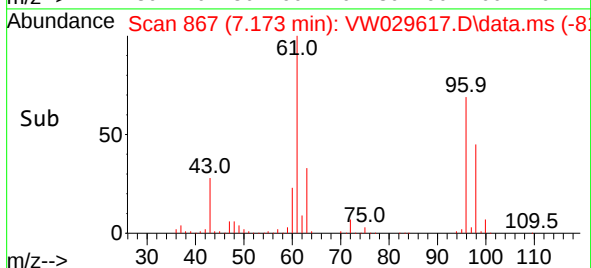
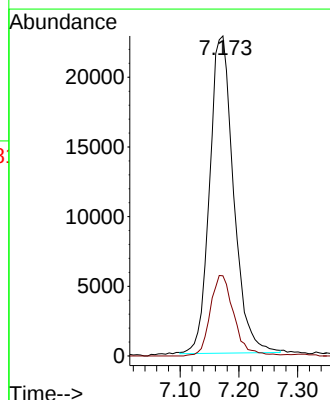
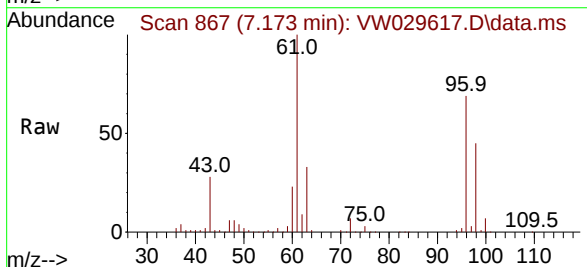
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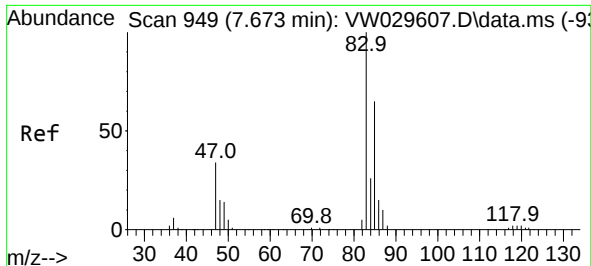
Tgt Ion: 96 Resp: 151242
 Ion Ratio Lower Upper
 96 100
 61 144.0 97.4 180.8
 98 64.4 41.6 77.2



#22
 2-Butanone
 Concen: 43.917 ug/L
 RT: 7.173 min Scan# 867
 Delta R.T. 0.006 min
 Lab File: VW029617.D
 Acq: 17 Jul 2024 15:32

Tgt Ion: 43 Resp: 64505
 Ion Ratio Lower Upper
 43 100
 72 24.9 12.0 36.1

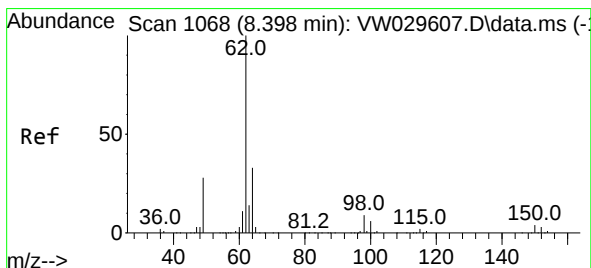
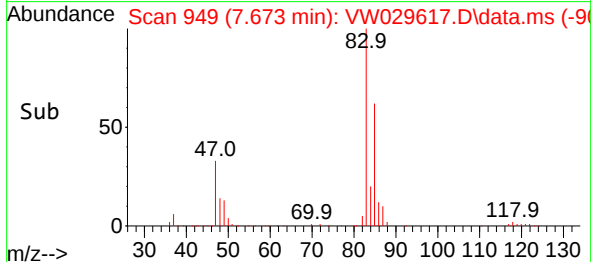
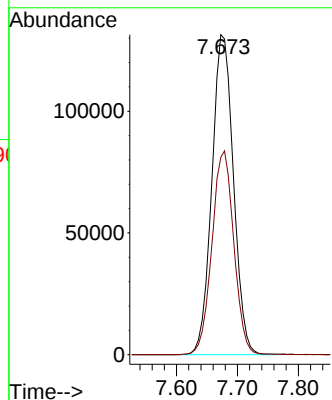
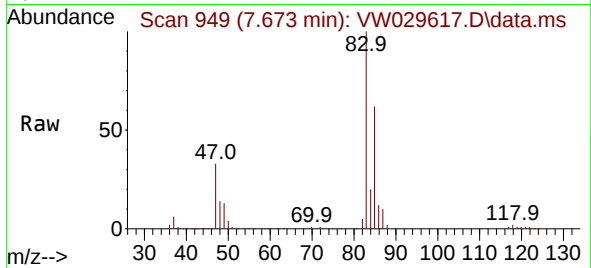




#25
Chloroform
Concen: 51.797 ug/L
RT: 7.673 min Scan# 949
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

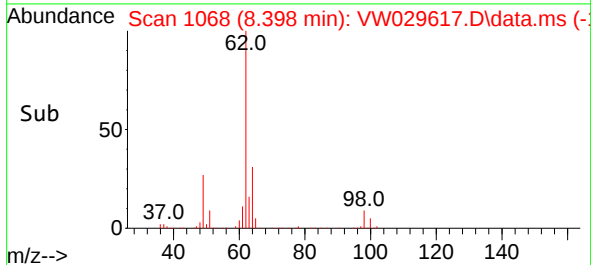
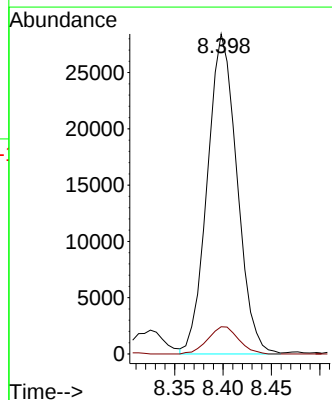
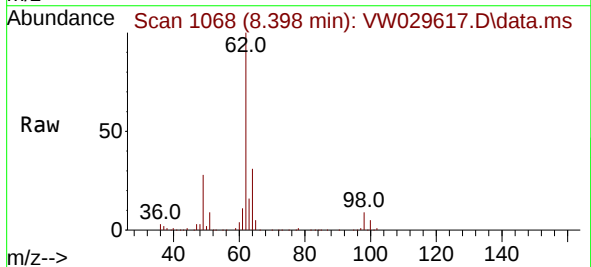
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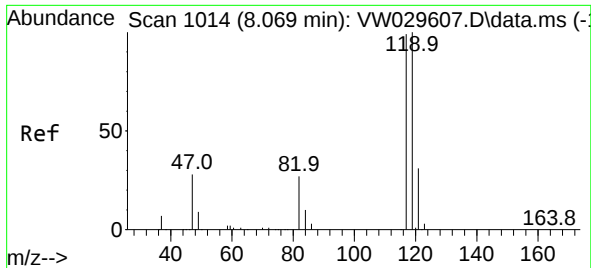
Tgt Ion: 83 Resp: 323894
Ion Ratio Lower Upper
83 100
85 61.7 44.1 81.9



#27
1,2-Dichloroethane
Concen: 12.937 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion: 62 Resp: 60675
Ion Ratio Lower Upper
62 100
98 8.5 6.0 9.0

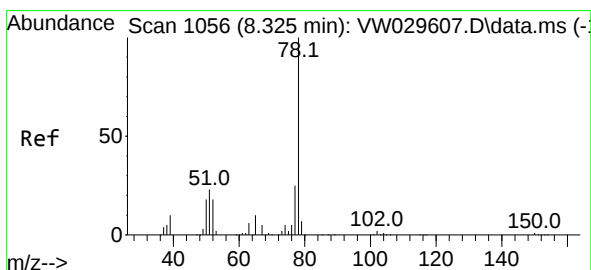
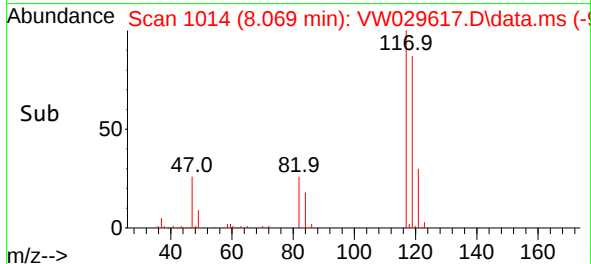
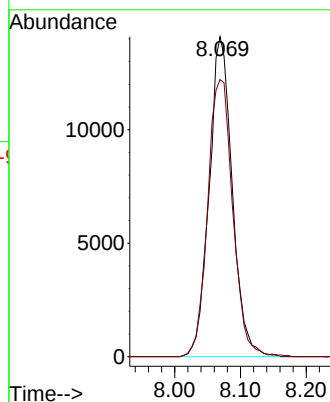
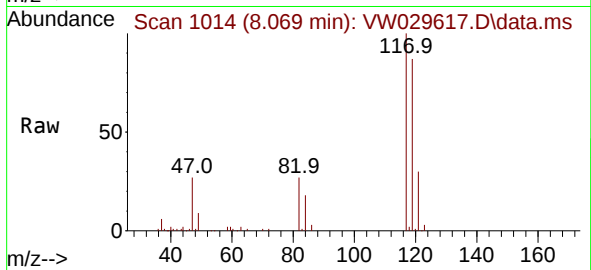




#31
Carbon tetrachloride
Concen: 7.710 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

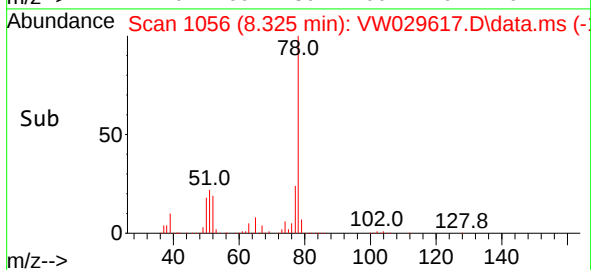
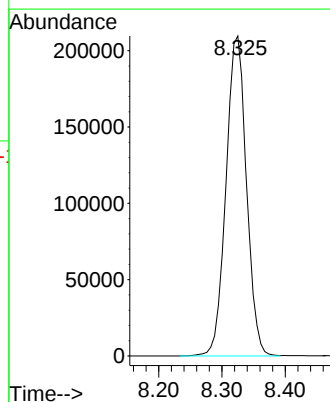
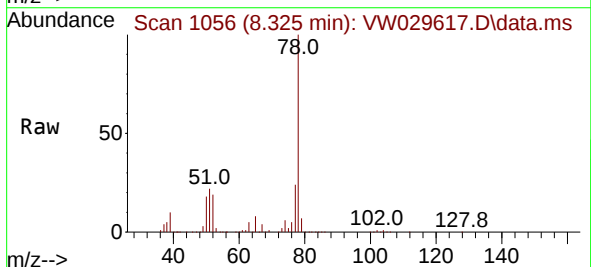
Instrument :
MSVOA_W
ClientSampleId :
A4DH4DL

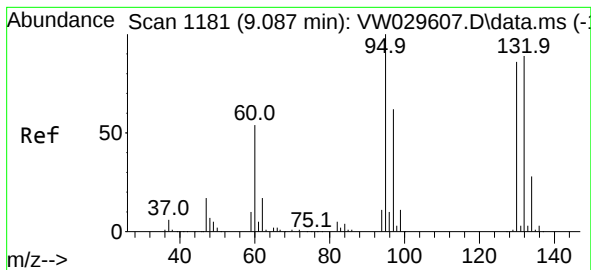
Tgt Ion:117 Resp: 34433
Ion Ratio Lower Upper
117 100
119 94.0 77.0 115.6



#33
Benzene
Concen: 35.163 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion: 78 Resp: 469802





#34

Trichloroethene

Concen: 49.441 ug/L

RT: 9.093 min Scan# 1181

Delta R.T. 0.006 min

Lab File: VW029617.D

Acq: 17 Jul 2024 15:32

Instrument :

MSVOA_W

ClientSampleId :

A4DH4DL

Tgt Ion: 95 Resp: 174441

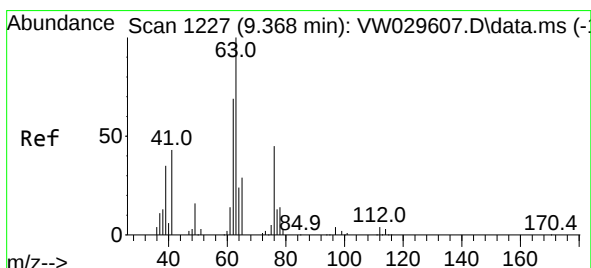
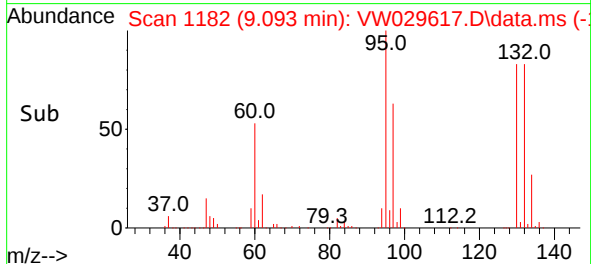
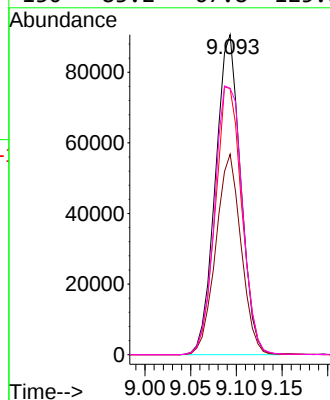
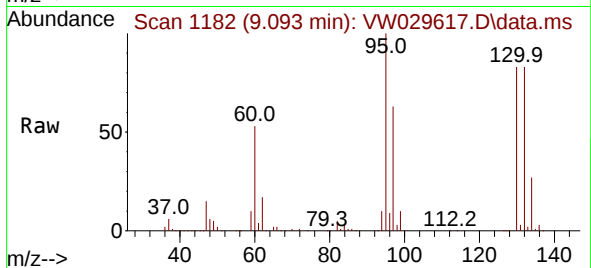
Ion Ratio Lower Upper

95 100

97 62.7 47.3 87.9

132 83.1 65.8 122.2

130 83.2 67.8 125.8



#37

1,2-Dichloropropane

Concen: 25.803 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW029617.D

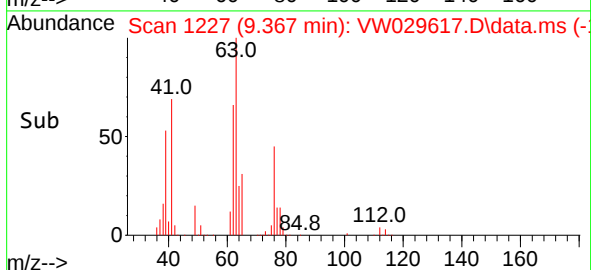
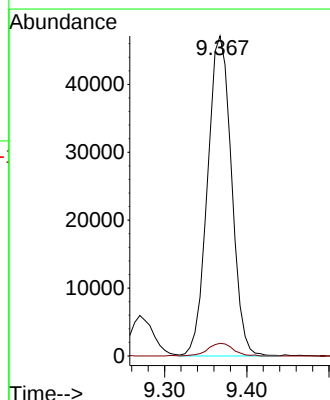
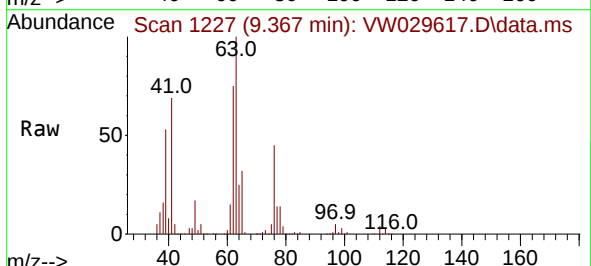
Acq: 17 Jul 2024 15:32

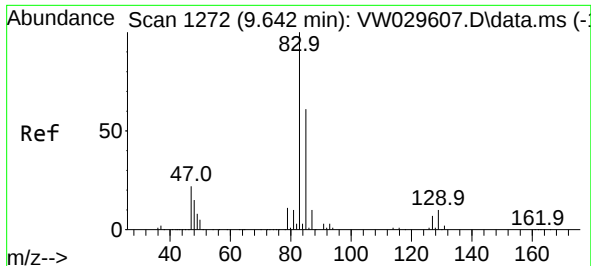
Tgt Ion: 63 Resp: 95331

Ion Ratio Lower Upper

63 100

112 4.1 3.3 4.9

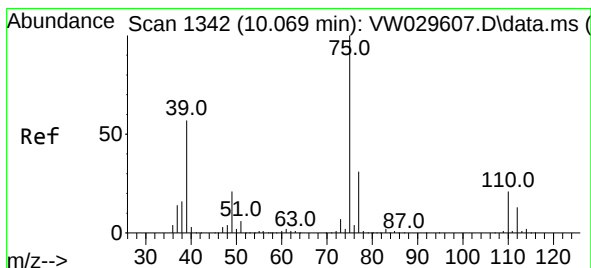
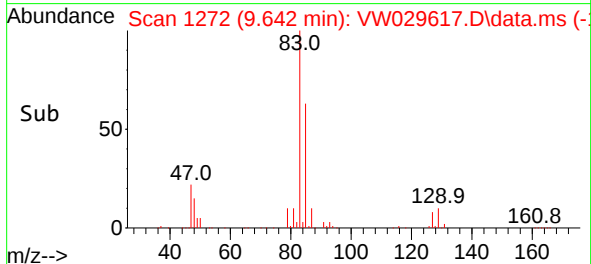
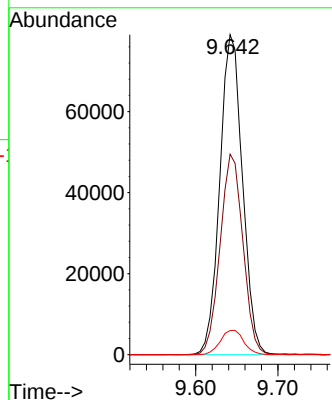
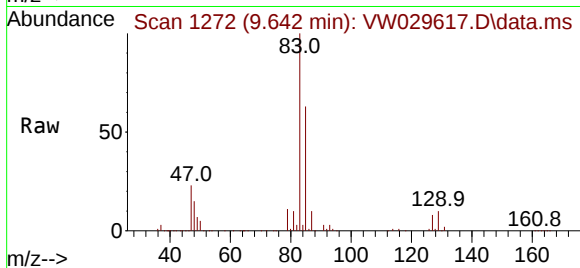




#38
Bromodichloromethane
Concen: 33.536 ug/L
RT: 9.642 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

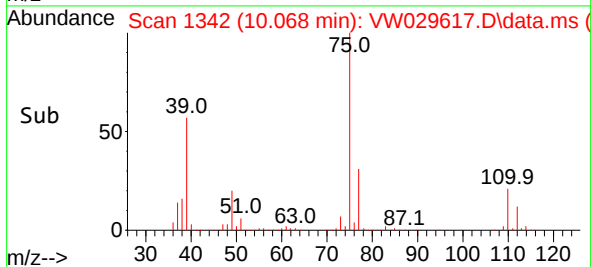
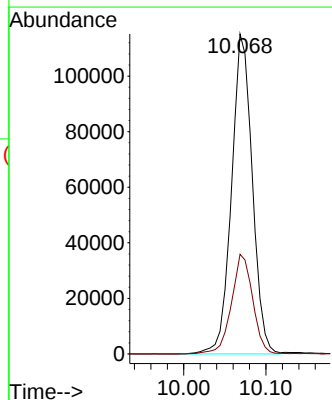
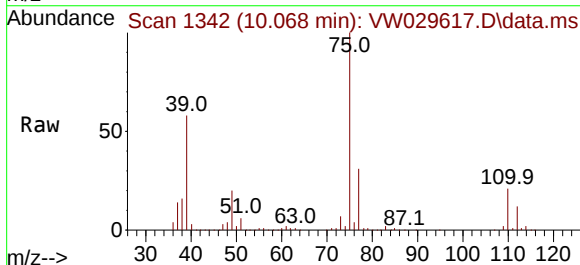
Instrument :
MSVOA_W
ClientSampleId :
A4DH4DL

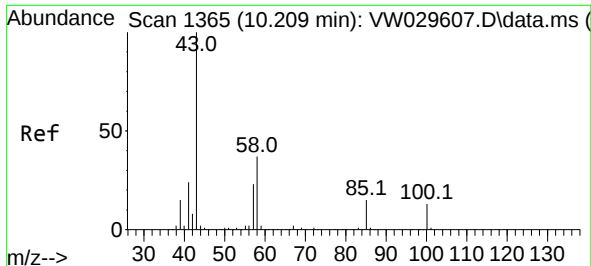
Tgt Ion: 83 Resp: 151343
Ion Ratio Lower Upper
83 100
85 62.6 46.1 85.5
127 7.5 6.1 9.1



#39
cis-1,3-Dichloropropene
Concen: 36.428 ug/L
RT: 10.068 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion: 75 Resp: 202148
Ion Ratio Lower Upper
75 100
77 31.2 22.2 41.2





#40

4-Methyl-2-pentanone

Concen: 110.590 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW029617.D

Acq: 17 Jul 2024 15:32

Instrument :

MSVOA_W

ClientSampleId :

A4DH4DL

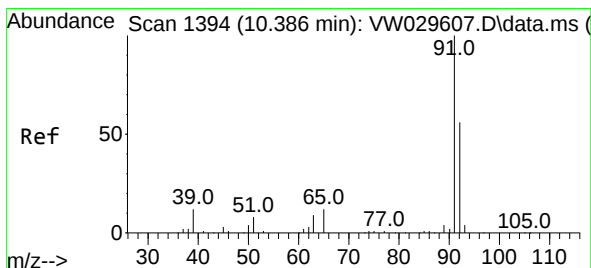
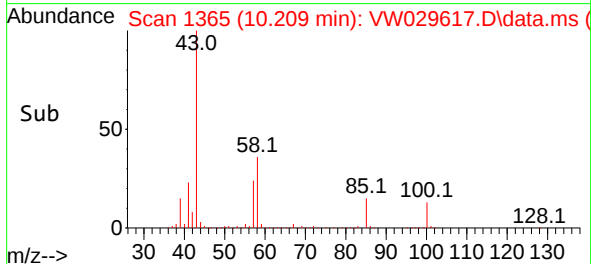
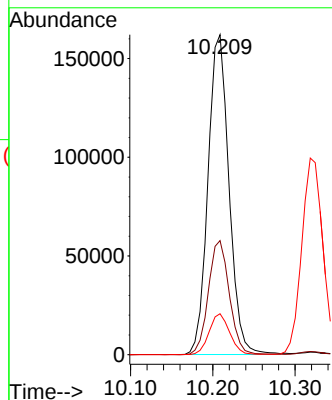
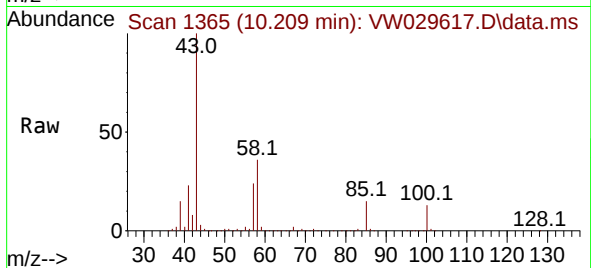
Tgt Ion: 43 Resp: 287962

Ion Ratio Lower Upper

43 100

58 35.6 29.0 43.6

100 12.6 10.5 15.7



#42

Toluene

Concen: 41.896 ug/L

RT: 10.385 min Scan# 1394

Delta R.T. -0.000 min

Lab File: VW029617.D

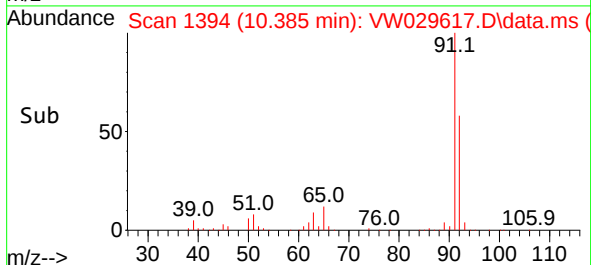
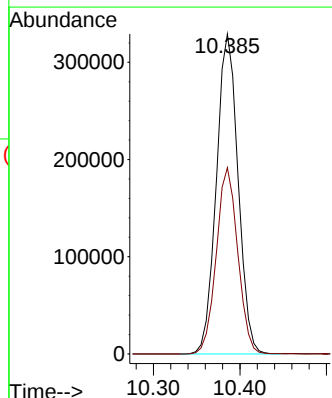
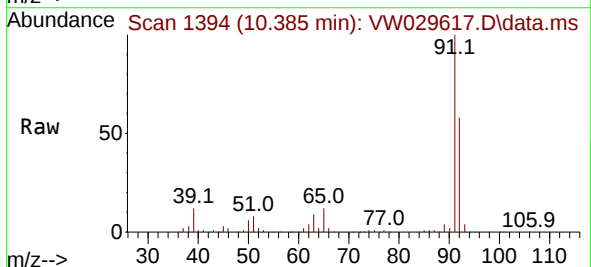
Acq: 17 Jul 2024 15:32

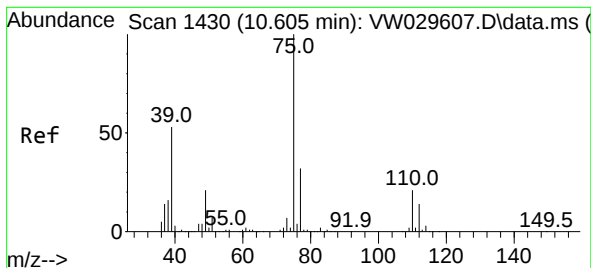
Tgt Ion: 91 Resp: 572650

Ion Ratio Lower Upper

91 100

92 58.2 41.1 76.3





#44

trans-1,3-Dichloropropene

Concen: 4.910 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW029617.D

Acq: 17 Jul 2024 15:32

Instrument :

MSVOA_W

ClientSampleId :

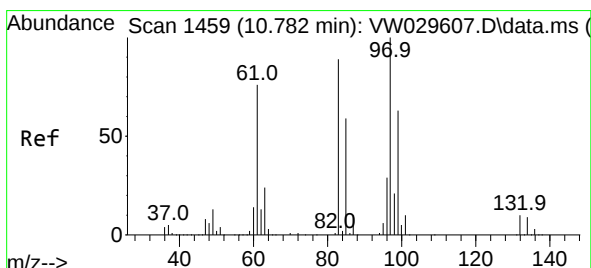
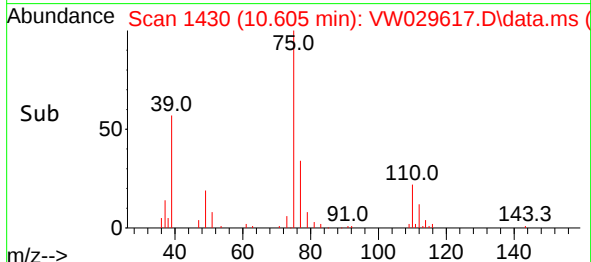
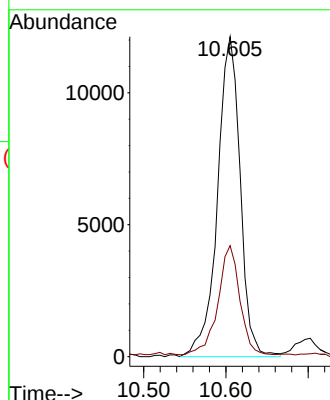
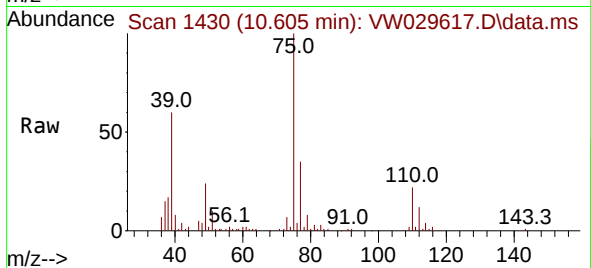
A4DH4DL

Tgt Ion: 75 Resp: 23355

Ion Ratio Lower Upper

75 100

77 34.7 22.4 41.6



#45

1,1,2-Trichloroethane

Concen: 11.040 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.000 min

Lab File: VW029617.D

Acq: 17 Jul 2024 15:32

Tgt Ion: 97 Resp: 29336

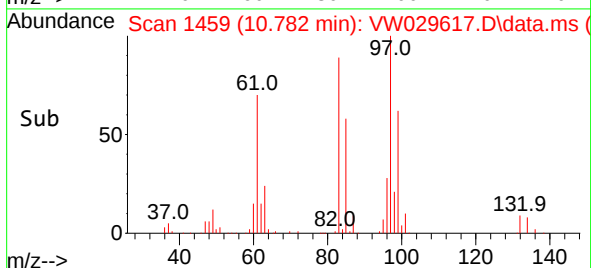
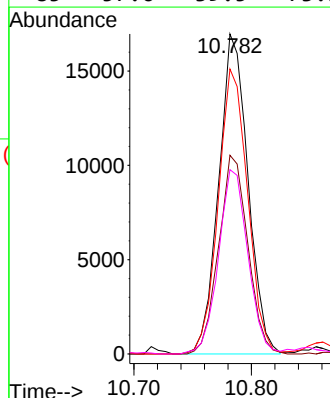
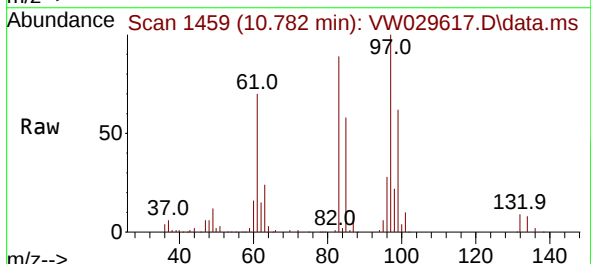
Ion Ratio Lower Upper

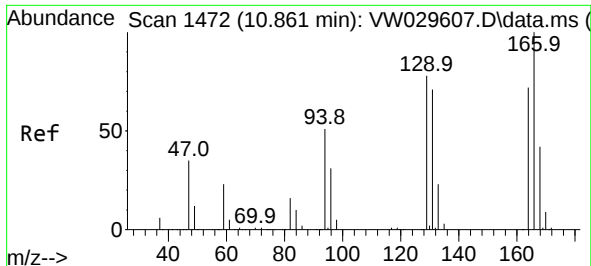
97 100

99 62.1 43.8 81.4

83 89.1 60.3 111.9

85 57.6 39.5 73.3

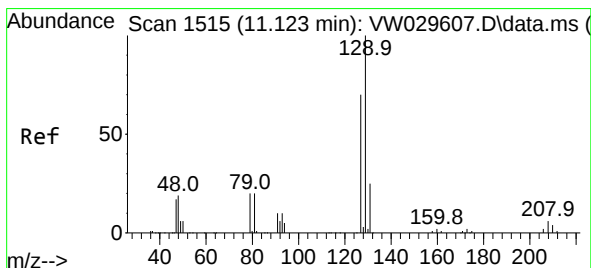
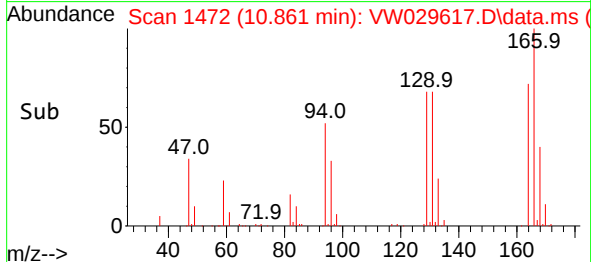
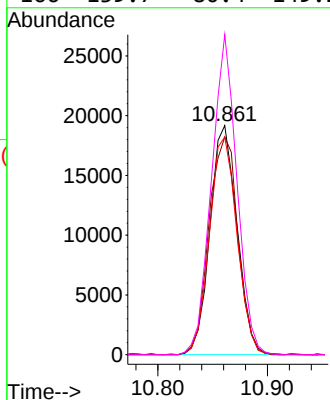
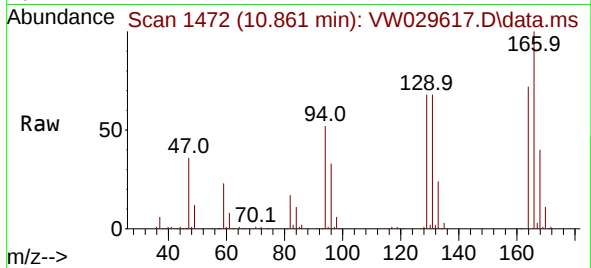




#46
Tetrachloroethene
Concen: 13.123 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

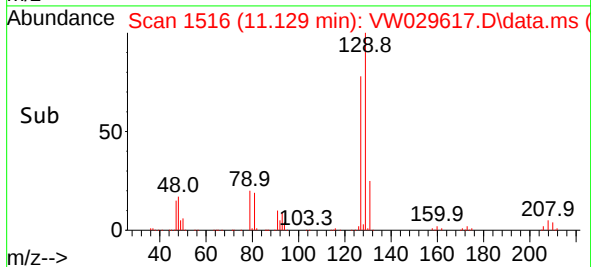
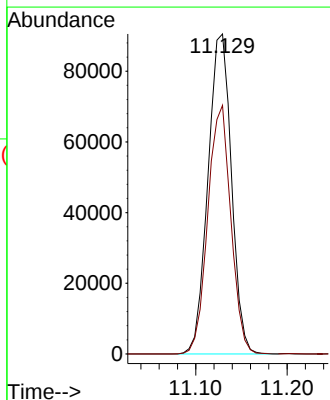
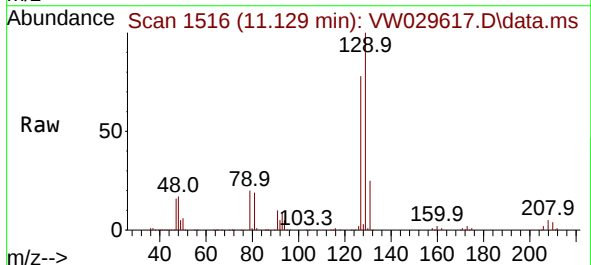
Instrument :
MSVOA_W
ClientSampleId :
A4DH4DL

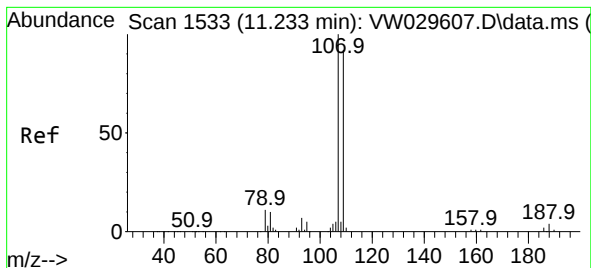
Tgt Ion:164	Resp:	32896
Ion	Ratio	Lower Upper
164	100	
129	95.1	60.0 111.4
131	95.0	64.6 120.0
166	139.7	80.4 149.2



#49
Dibromochloromethane
Concen: 58.351 ug/L
RT: 11.129 min Scan# 1516
Delta R.T. 0.006 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion:129	Resp:	161356
Ion	Ratio	Lower Upper
129	100	
127	77.7	51.9 96.3

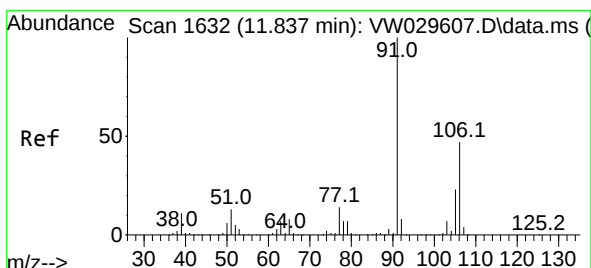
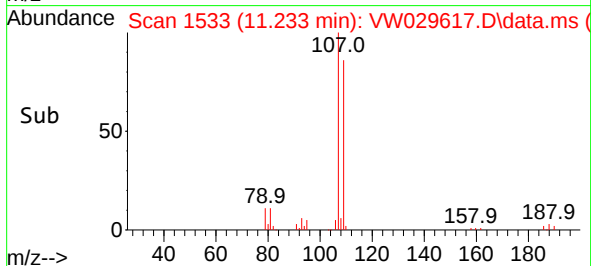
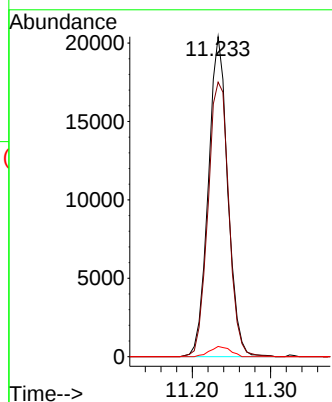
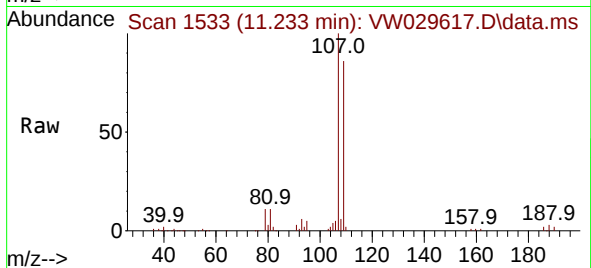




#50
1,2-Dibromoethane
Concen: 13.913 ug/L
RT: 11.233 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

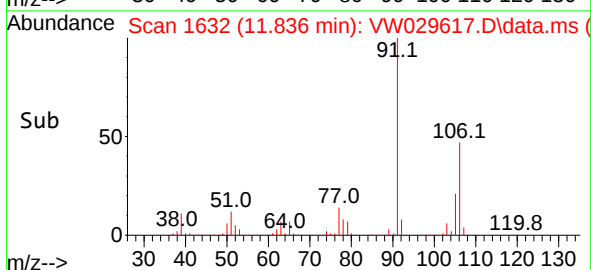
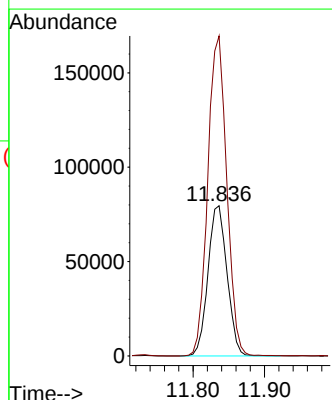
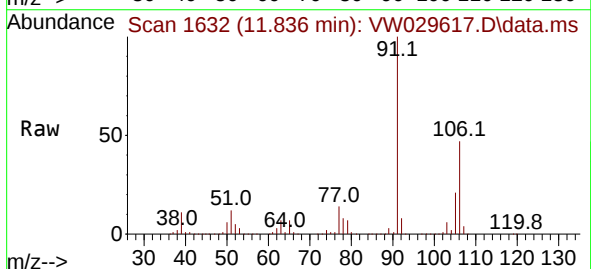
Instrument :
MSVOA_W
ClientSampleId :
A4DH4DL

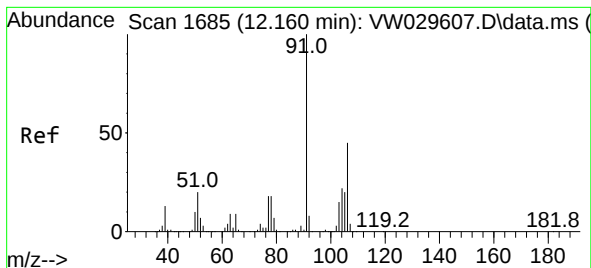
Tgt Ion:107 Resp: 35229
Ion Ratio Lower Upper
107 100
109 85.8 63.2 117.4
188 3.2 2.9 4.3



#53
m,p-Xylene
Concen: 25.959 ug/L
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion:106 Resp: 147573
Ion Ratio Lower Upper
106 100
91 212.9 149.3 277.3





#54

o-Xylene

Concen: 12.731 ug/L

RT: 12.166 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW029617.D

Acq: 17 Jul 2024 15:32

Instrument :

MSVOA_W

ClientSampleId :

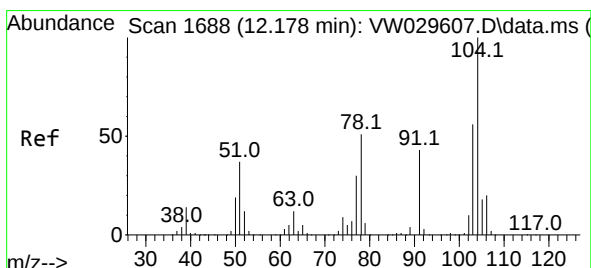
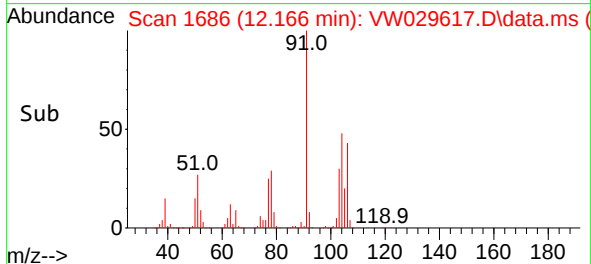
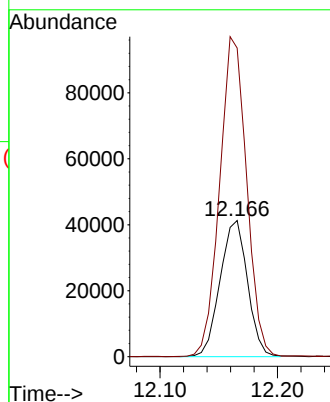
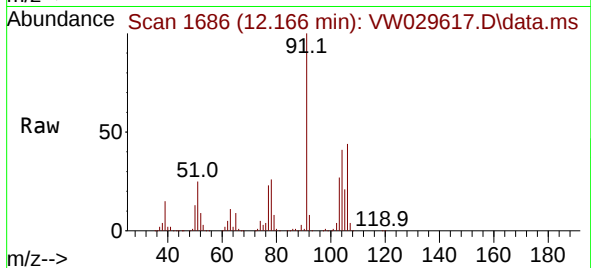
A4DH4DL

Tgt Ion:106 Resp: 66942

Ion Ratio Lower Upper

106 100

91 226.7 159.2 295.6



#55

Styrene

Concen: 12.408 ug/L

RT: 12.178 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VW029617.D

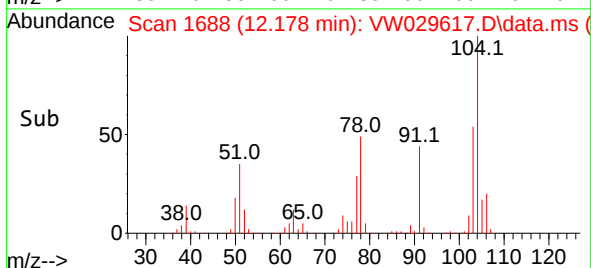
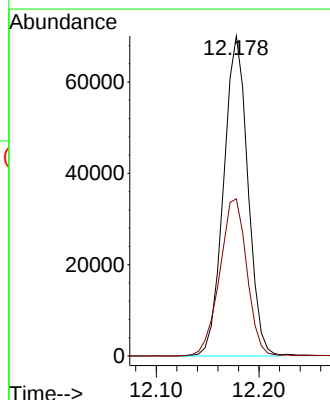
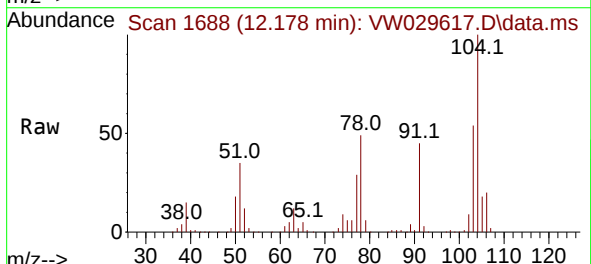
Acq: 17 Jul 2024 15:32

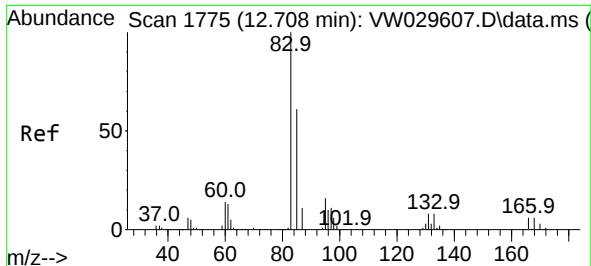
Tgt Ion:104 Resp: 114723

Ion Ratio Lower Upper

104 100

78 49.1 34.7 64.5





#57

1,1,2-Tetrachloroethane

Concen: 43.710 ug/L

RT: 12.708 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VW029617.D

Acq: 17 Jul 2024 15:32

Instrument :

MSVOA_W

ClientSampleId :

A4DH4DL

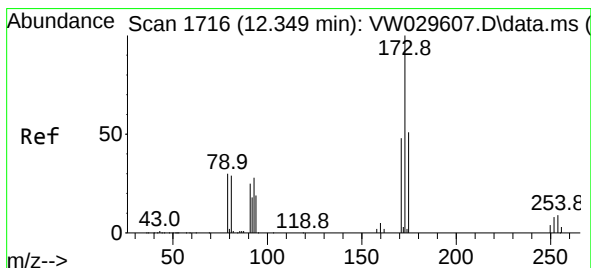
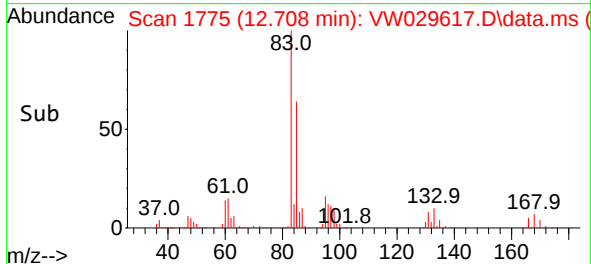
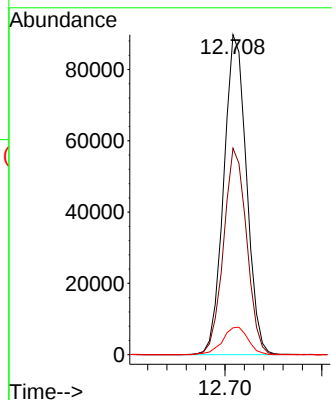
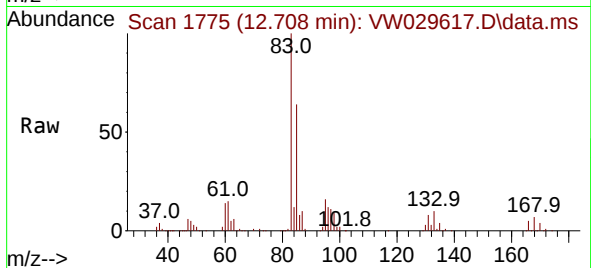
Tgt Ion: 83 Resp: 146502

Ion Ratio Lower Upper

83 100

85 64.5 45.4 84.4

131 8.4 6.4 9.6



#59

Bromoform

Concen: 34.226 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VW029617.D

Acq: 17 Jul 2024 15:32

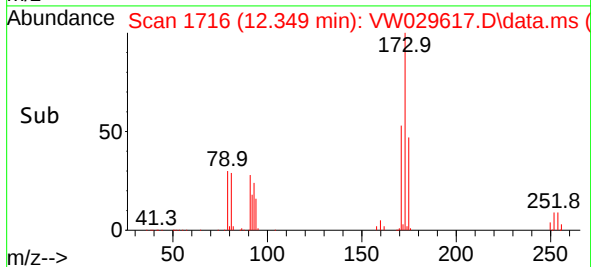
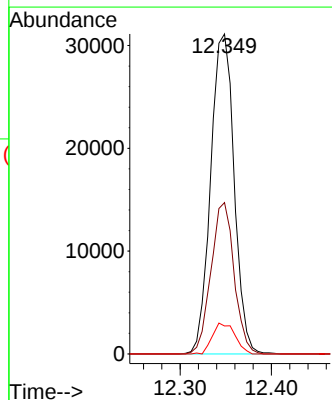
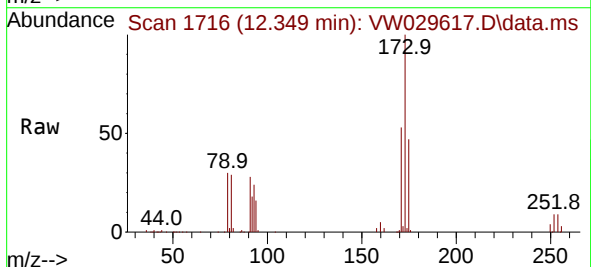
Tgt Ion: 173 Resp: 55471

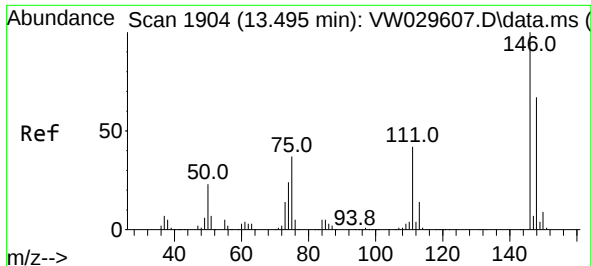
Ion Ratio Lower Upper

173 100

175 46.6 40.4 60.6

254 9.2 8.8 13.2

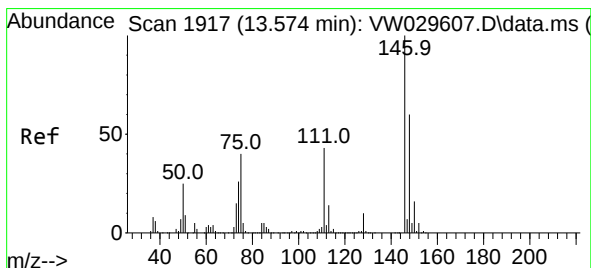
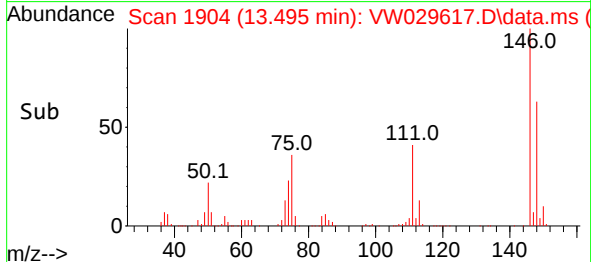
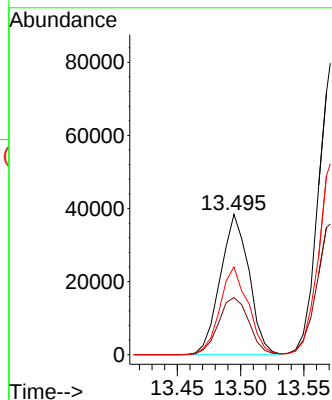
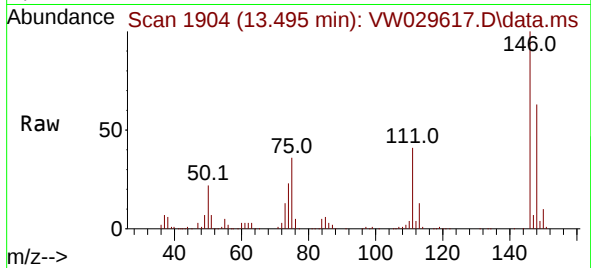




#64
1,3-Dichlorobenzene
Concen: 9.150 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

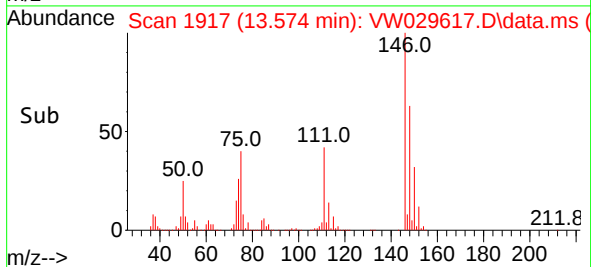
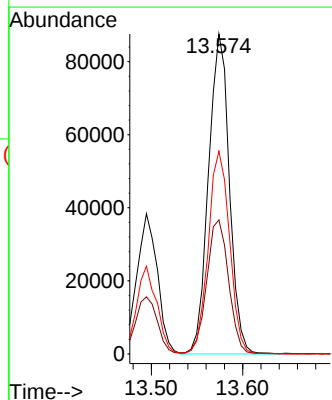
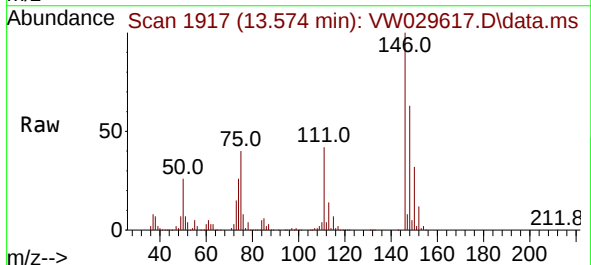
Instrument :
MSVOA_W
ClientSampleId :
A4DH4DL

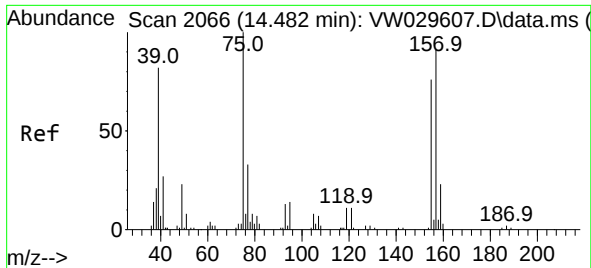
Tgt Ion:146 Resp: 60590
Ion Ratio Lower Upper
146 100
111 40.8 28.6 53.2
148 62.6 43.0 80.0



#65
1,4-Dichlorobenzene
Concen: 20.443 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW029617.D
Acq: 17 Jul 2024 15:32

Tgt Ion:146 Resp: 138684
Ion Ratio Lower Upper
146 100
111 41.9 27.6 51.4
148 63.4 40.9 75.9





#68
 1,2-Dibromo-3-chloropropane
 Concen: 13.676 ug/L
 RT: 14.482 min Scan# 2066
 Delta R.T. -0.000 min
 Lab File: VW029617.D
 Acq: 17 Jul 2024 15:32

Instrument :
 MSVOA_W
 ClientSampleId :
 A4DH4DL

Tgt Ion:	75	Resp:	8308
Ion	Ratio	Lower	Upper
75	100		
155	66.1	51.2	76.8
157	84.1	63.7	95.5

