

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW101923\
 Data File : VW027339.D
 Acq On : 19 Oct 2023 11:14
 Operator : SY/MD
 Sample : 04929-01
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 20 02:47:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM101123SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Oct 20 02:46:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	444602	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	395484	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	189860	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.362	65	149502	22.033	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.120%
7) Chloroethane-d5	2.893	69	115650	23.737	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.960%
11) 1,1-Dichloroethene-d2	4.021	65	77654	22.840	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	91.360%
21) 2-Butanone-d5	7.075	46	99049	43.919	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.840%
24) Chloroform-d	7.648	84	313822	23.682	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.720%
26) 1,2-Dichloroethane-d4	8.502	65	109	0.015	ug/L	0.19
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.080%#
32) Benzene-d6	8.276	84	669346	25.015	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.080%
36) 1,2-Dichloropropane-d6	9.270	67	206219	25.233	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.920%
41) Toluene-d8	10.324	98	571450	23.551	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.200%
43) trans-1,3-Dichloroprop...	10.574	79	86068	23.098	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.400%
47) 2-Hexanone-d5	10.922	63	79906	47.257	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.520%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	147536	24.196	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.800%
66) 1,2-Dichlorobenzene-d4	13.848	152	151776	22.060	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.240%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	546593	93.755	ug/L #	63
13) Acetone	4.118	43	318117	163.313	ug/L	99
16) Methylene chloride	4.917	84	292742	35.971	ug/L	92
17) trans-1,2-Dichloroethene	5.429	96	160467	25.611	ug/L	99
18) Methyl tert-butyl Ether	5.423	73	198562	18.368	ug/L	100
20) cis-1,2-Dichloroethene	7.166	96	209497	29.607	ug/L	96
22) 2-Butanone	7.166	43	261423	89.663	ug/L	100
27) 1,2-Dichloroethane	8.398	62	280388	34.499	ug/L	100
31) Carbon tetrachloride	8.069	117	601147	69.107	ug/L	99
33) Benzene	8.325	78	1347706	52.143	ug/L	100
34) Trichloroethene	9.093	95	627504	91.911	ug/L	95
37) 1,2-Dichloropropane	9.367	63	343483	49.150	ug/L	99
38) Bromodichloromethane	9.642	83	454693	52.912	ug/L	99
39) cis-1,3-Dichloropropene	10.068	75	618456	53.573	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	792208	164.834	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	333118	34.198	ug/L	98
45) 1,1,2-Trichloroethane	10.782	97	195352	40.622	ug/L	93
46) Tetrachloroethene	10.861	164	232979	49.421	ug/L	91
48) 2-Hexanone	10.964	43	341976	96.136	ug/L	97

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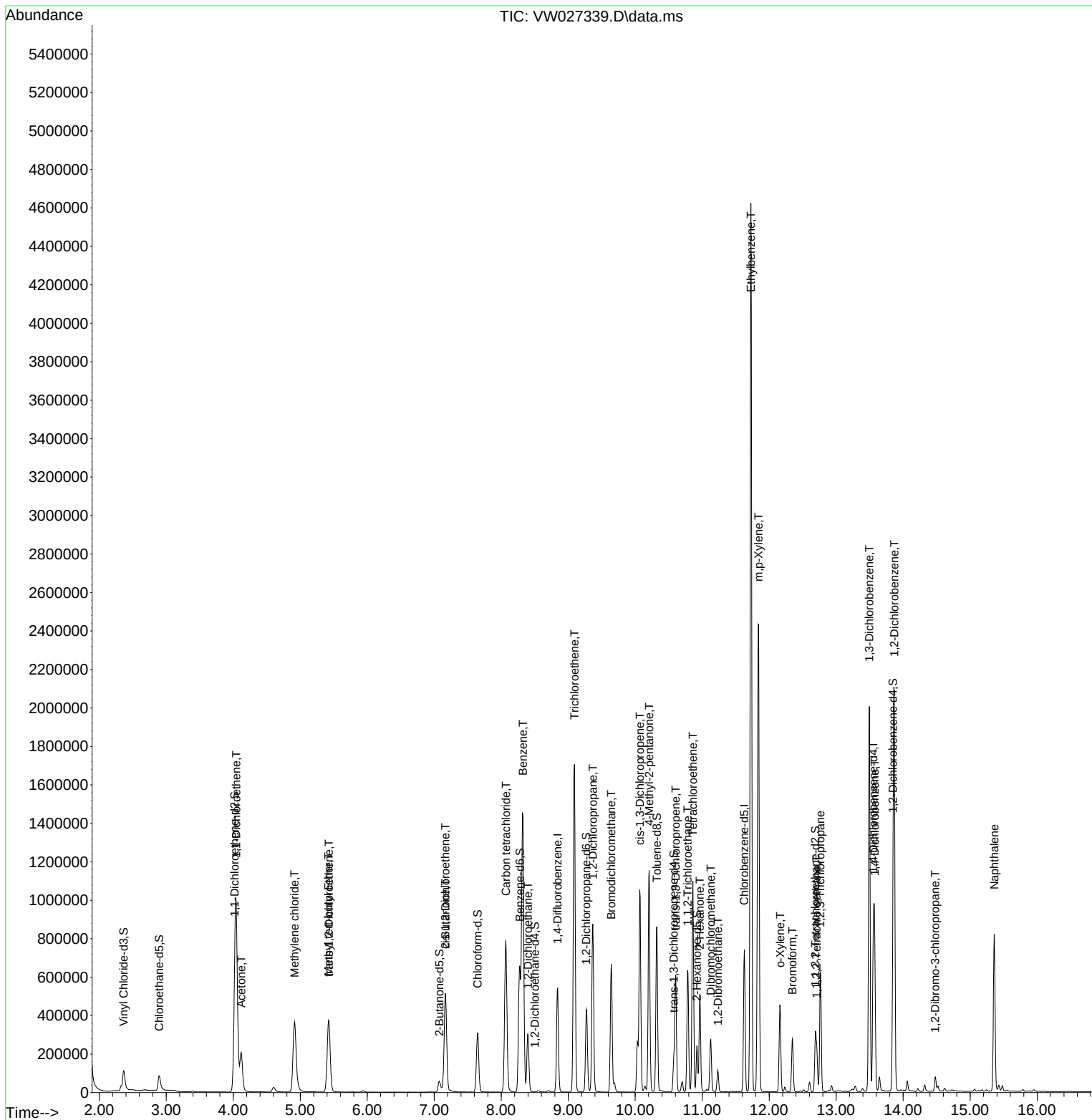
Quant Time: Oct 20 02:47:31 2023
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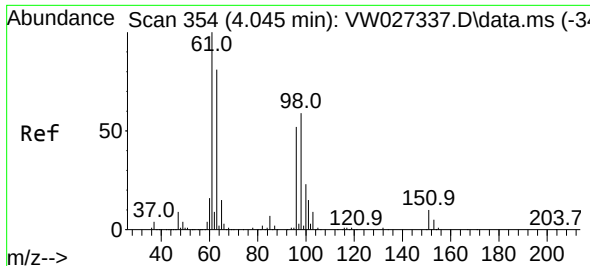
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

49) Dibromochloromethane	11.129	129	141190	26.436	ug/L	94
50) 1,2-Dibromoethane	11.233	107	76420	16.390	ug/L	98
52) Ethylbenzene	11.727	91	2419136	76.779	ug/L	95
53) m,p-Xylene	11.842	106	771175	64.531	ug/L	96
54) o-Xylene	12.166	106	102466	8.954	ug/L	91
57) 1,1,2,2-Tetrachloroethane	12.708	83	98079	16.707	ug/L	95
59) Bromoform	12.348	173	119229	42.203	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	264260	63.745	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	748733	61.905	ug/L	96
65) 1,4-Dichlorobenzene	13.574	146	291417	24.127	ug/L	99
67) 1,2-Dichlorobenzene	13.866	146	720351	67.119	ug/L	99
68) 1,2-Dibromo-3-chloropr...	14.476	75	20768	20.045	ug/L	91
71) Naphthalene	15.360	128	679374	49.435	ug/L	99

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

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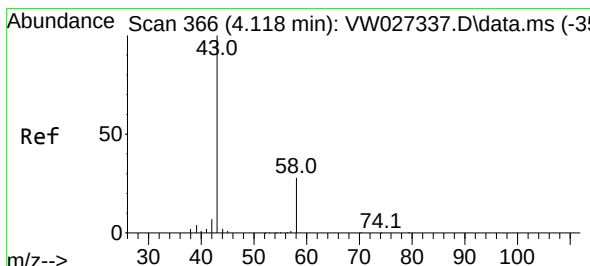
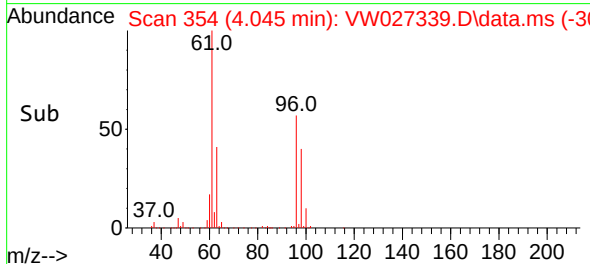
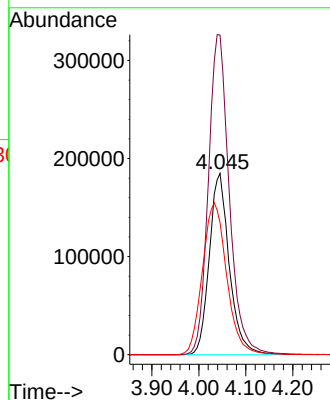
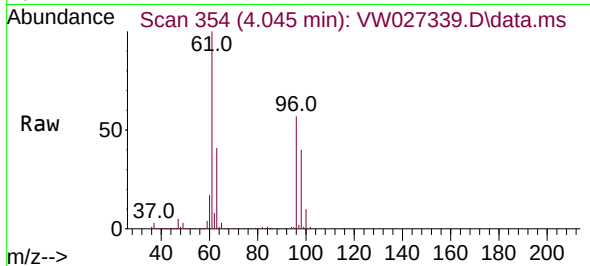




#12
1,1-Dichloroethene
Concen: 93.755 ug/L
RT: 4.045 min Scan# 354
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

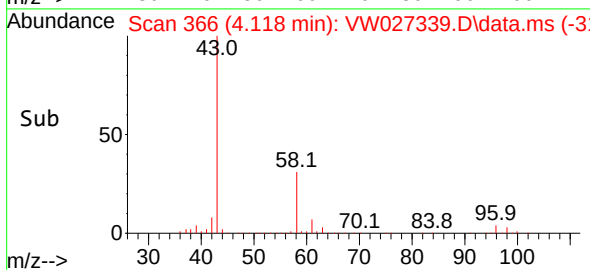
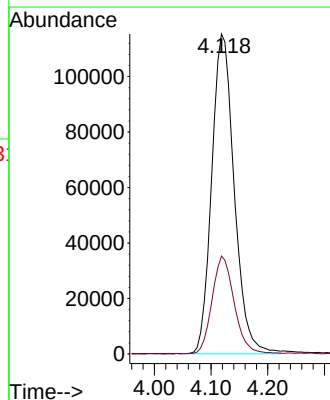
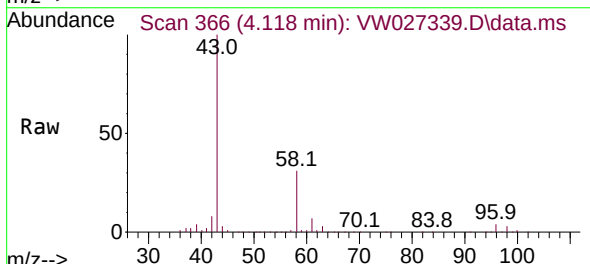
Instrument :
MSVOA_W
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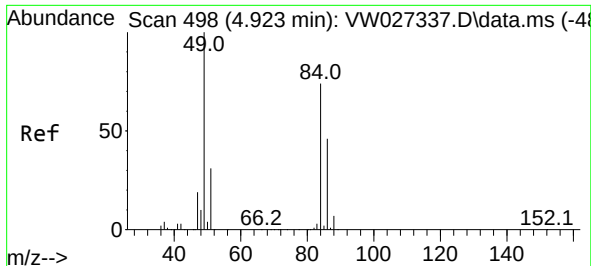
Tgt Ion: 96 Resp: 546593
Ion Ratio Lower Upper
96 100
61 176.3 133.3 247.5
63 72.9 115.8 215.2#



#13
Acetone
Concen: 163.313 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

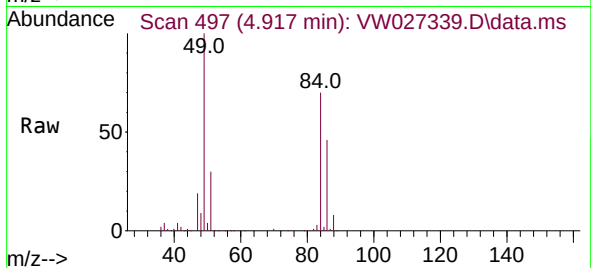
Tgt Ion: 43 Resp: 318117
Ion Ratio Lower Upper
43 100
58 30.1 0.0 60.8



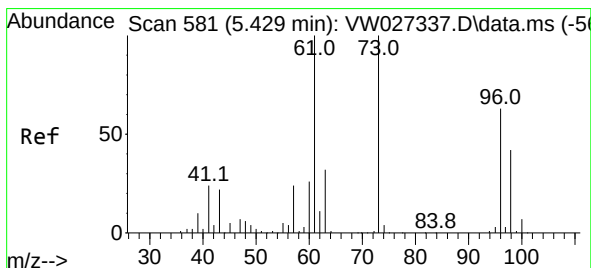
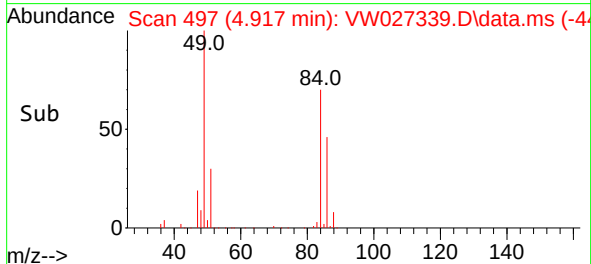
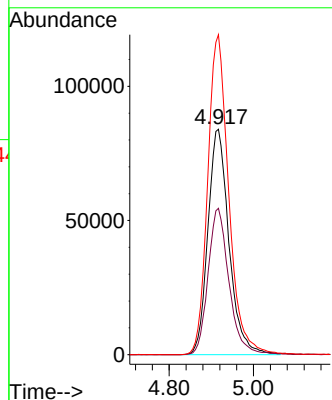


#16
Methylene chloride
Concen: 35.971 ug/L
RT: 4.917 min Scan# 49
Delta R.T. -0.006 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Instrument :
MSVOA_W
ClientSampleId :

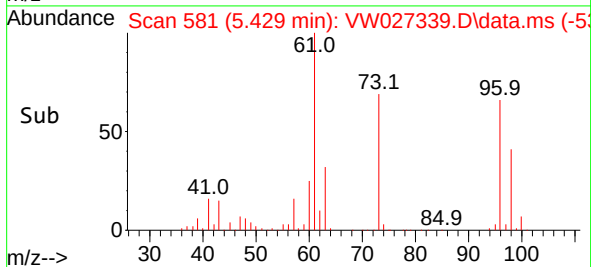
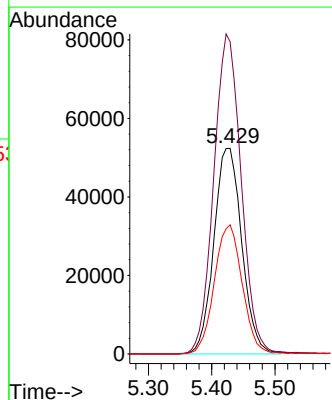
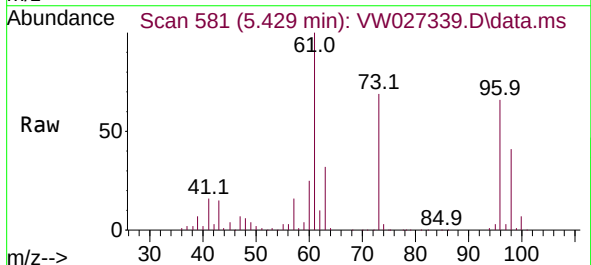


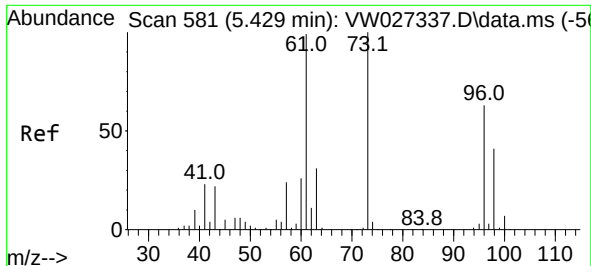
Tgt Ion: 84 Resp: 292742
Ion Ratio Lower Upper
84 100
86 64.9 41.3 76.7
49 141.9 92.8 172.4



#17
trans-1,2-Dichloroethene
Concen: 25.611 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion: 96 Resp: 160467
Ion Ratio Lower Upper
96 100
61 151.8 105.6 196.0
98 62.8 45.0 83.6

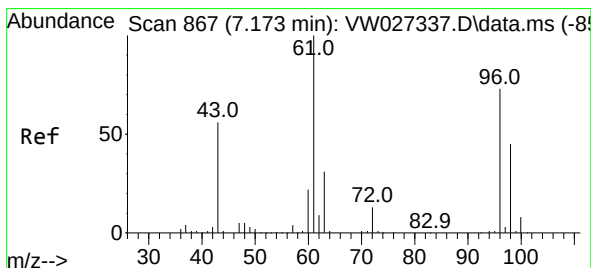
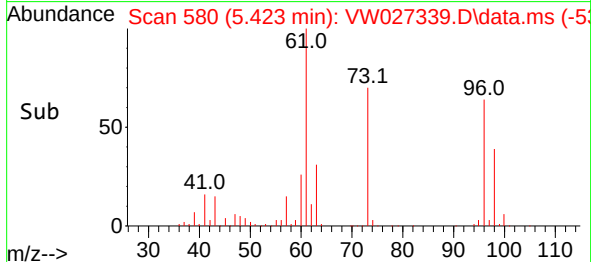
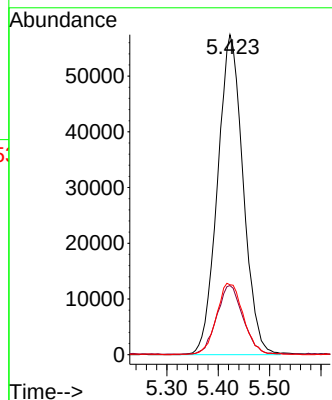
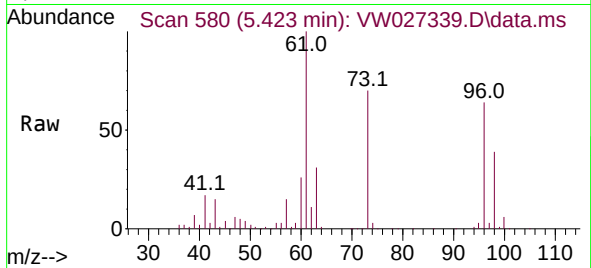




#18
Methyl tert-butyl Ether
Concen: 18.368 ug/L
RT: 5.423 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

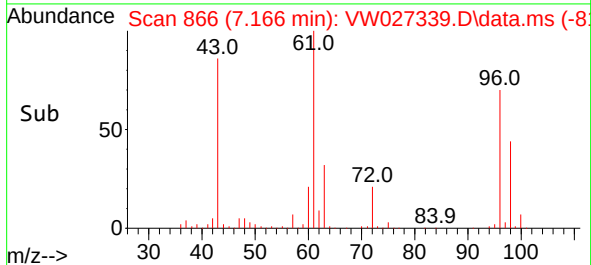
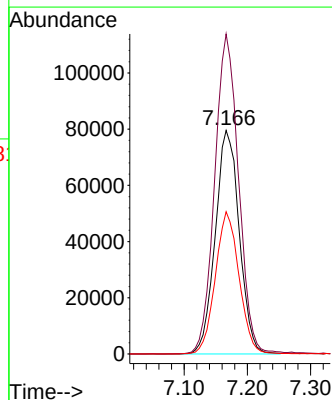
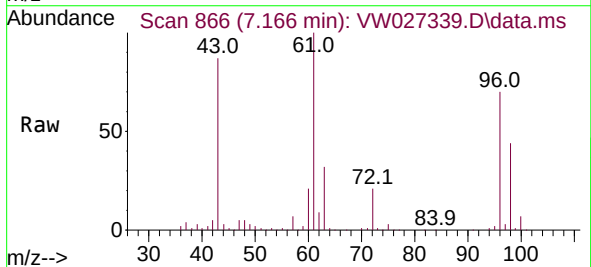
Instrument :
MSVOA_W
ClientSampleId :

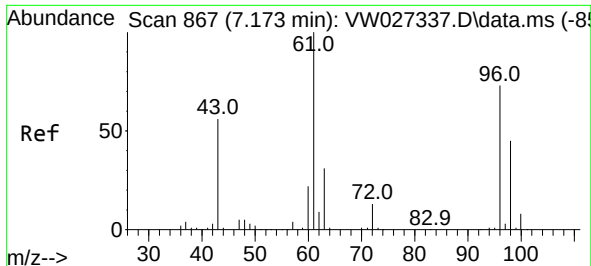
Tgt Ion: 73 Resp: 198562
Ion Ratio Lower Upper
73 100
43 21.9 17.7 26.5
57 23.0 18.5 27.7



#20
cis-1,2-Dichloroethene
Concen: 29.607 ug/L
RT: 7.166 min Scan# 866
Delta R.T. -0.006 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion: 96 Resp: 209497
Ion Ratio Lower Upper
96 100
61 143.1 96.2 178.8
98 63.6 46.0 85.4

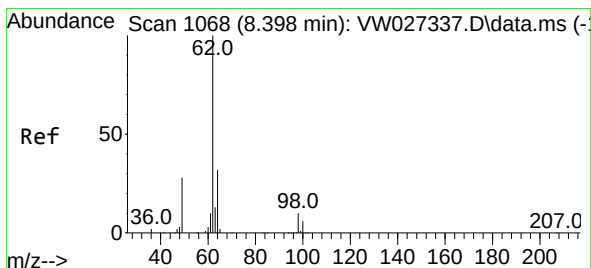
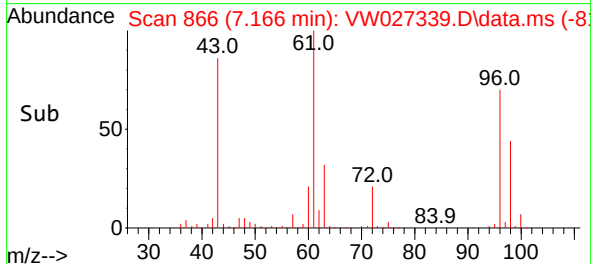
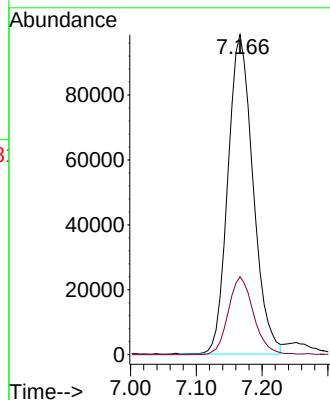
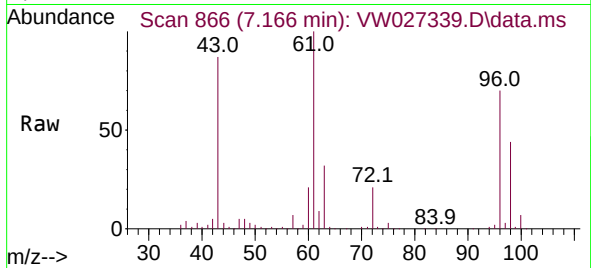




#22
2-Butanone
Concen: 89.663 ug/L
RT: 7.166 min Scan# 866
Delta R.T. -0.006 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

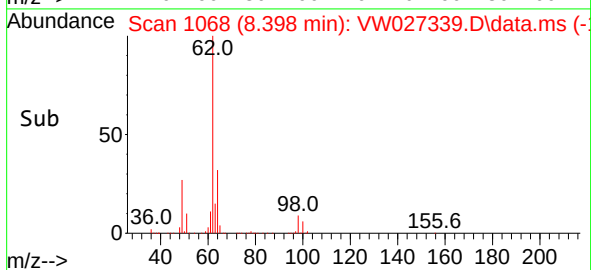
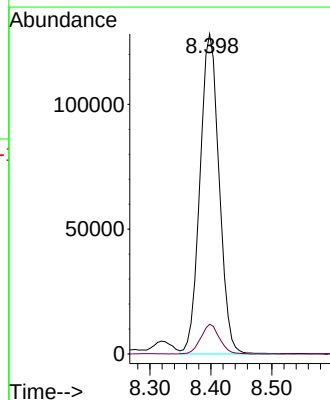
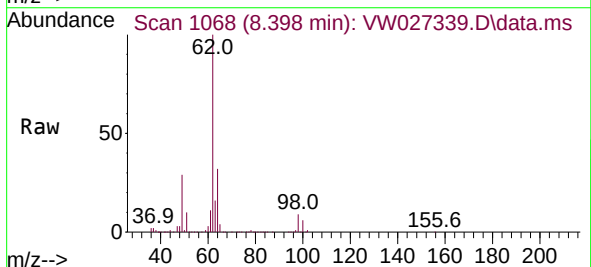
Instrument :
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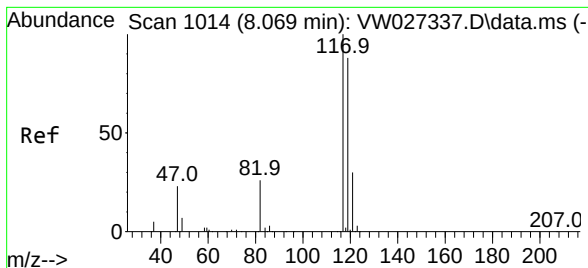
Tgt Ion: 43 Resp: 261423
Ion Ratio Lower Upper
43 100
72 24.4 12.3 36.8



#27
1,2-Dichloroethane
Concen: 34.499 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion: 62 Resp: 280388
Ion Ratio Lower Upper
62 100
98 9.3 7.5 11.3

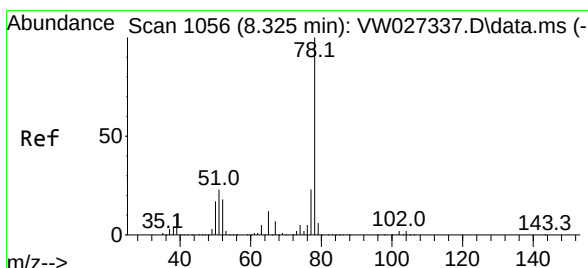
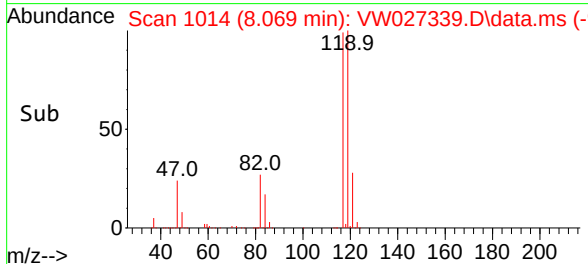
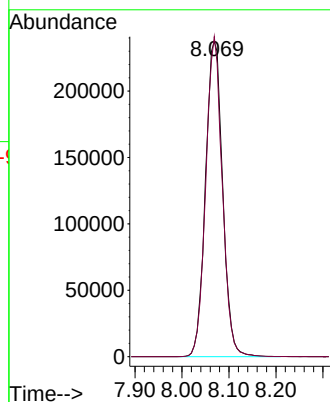
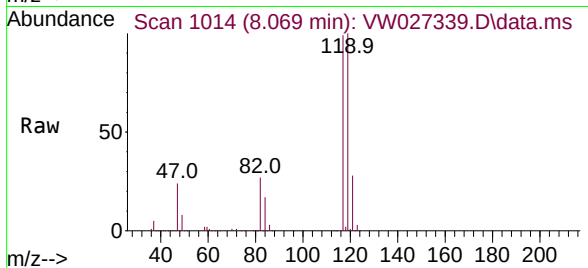




#31
Carbon tetrachloride
Concen: 69.107 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

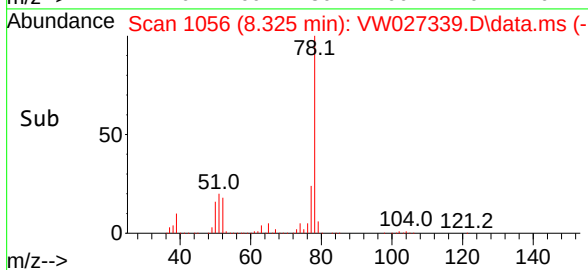
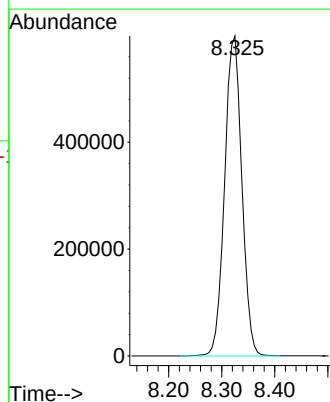
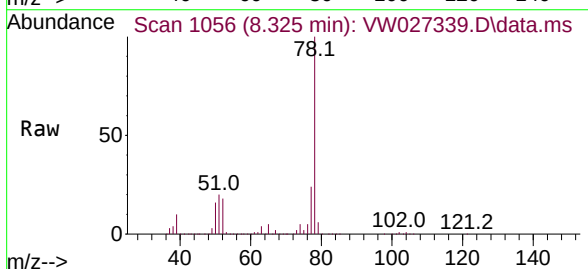
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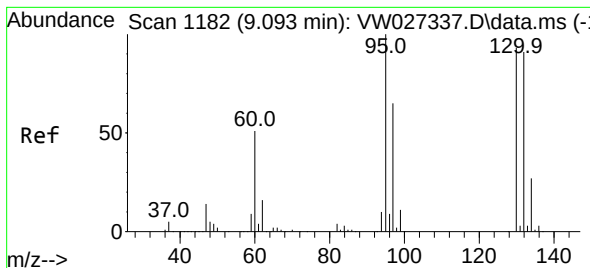
Tgt Ion:117 Resp: 601147
Ion Ratio Lower Upper
117 100
119 97.5 77.1 115.7



#33
Benzene
Concen: 52.143 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion: 78 Resp: 1347706





#34

Trichloroethene

Concen: 91.911 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. -0.000 min

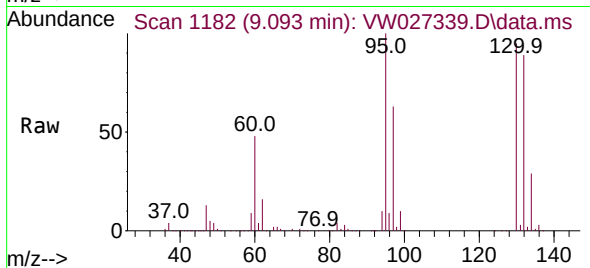
Lab File: VW027339.D

Acq: 19 Oct 2023 11:14

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 627504

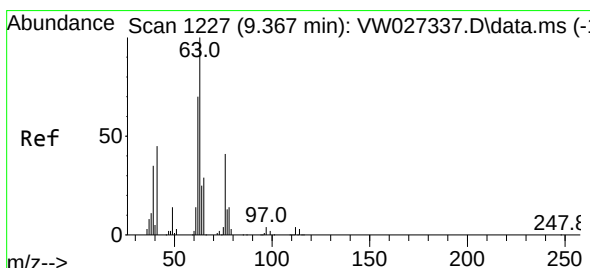
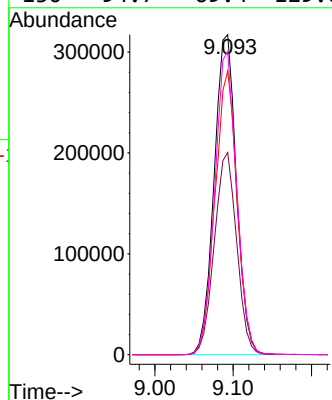
Ion Ratio Lower Upper

95 100

97 63.2 43.4 80.6

132 88.6 67.6 125.6

130 94.7 69.4 129.0



#37

1,2-Dichloropropane

Concen: 49.150 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW027339.D

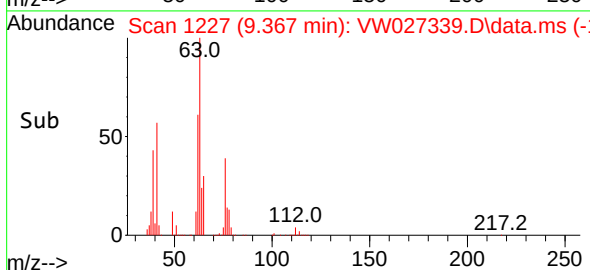
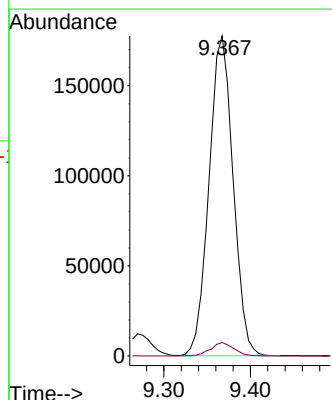
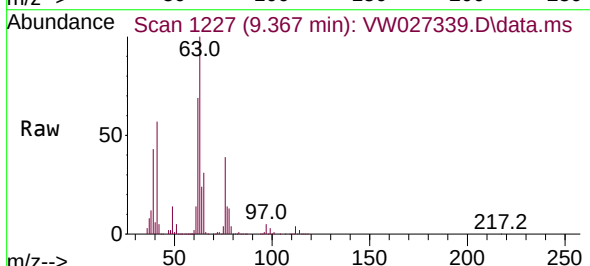
Acq: 19 Oct 2023 11:14

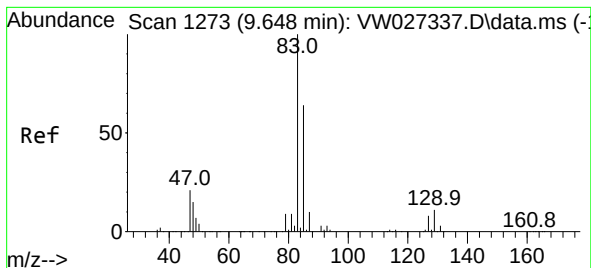
Tgt Ion: 63 Resp: 343483

Ion Ratio Lower Upper

63 100

112 4.0 3.5 5.3





#38

Bromodichloromethane

Concen: 52.912 ug/L

RT: 9.642 min Scan# 1

Delta R.T. -0.006 min

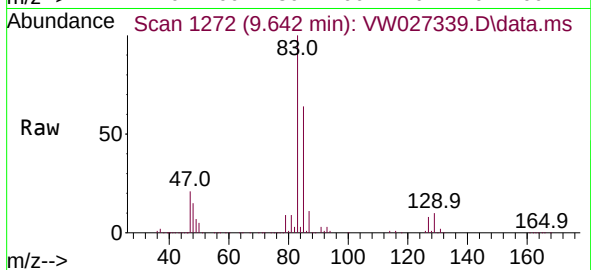
Lab File: VW027339.D

Acq: 19 Oct 2023 11:14

Instrument :

MSVOA_W

ClientSampleId :



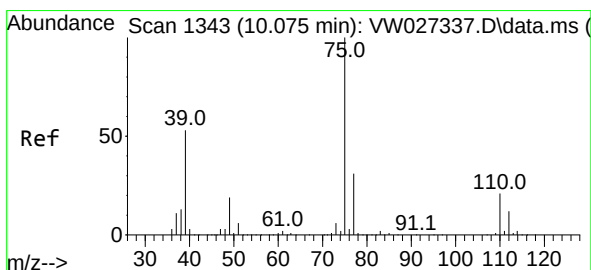
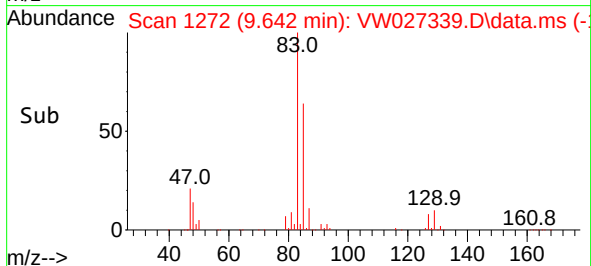
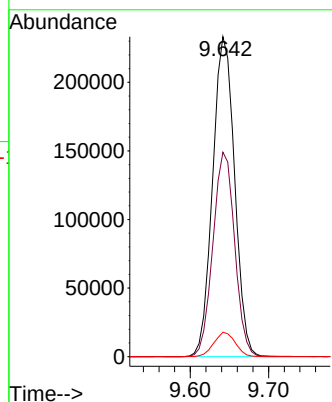
Tgt Ion: 83 Resp: 454693

Ion Ratio Lower Upper

83 100

85 63.9 43.9 81.5

127 7.6 6.2 9.2



#39

cis-1,3-Dichloropropene

Concen: 53.573 ug/L

RT: 10.068 min Scan# 1342

Delta R.T. -0.006 min

Lab File: VW027339.D

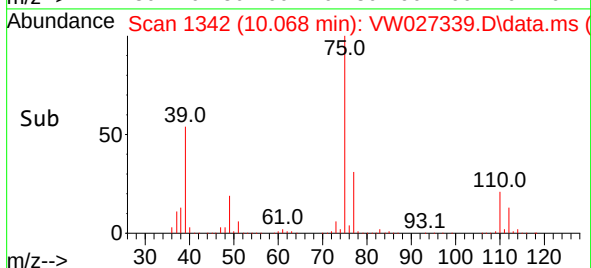
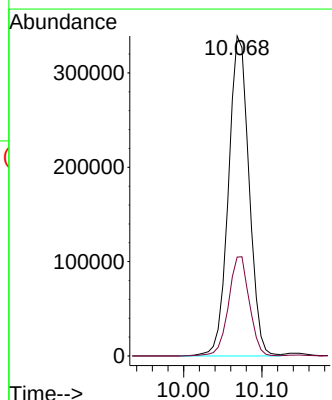
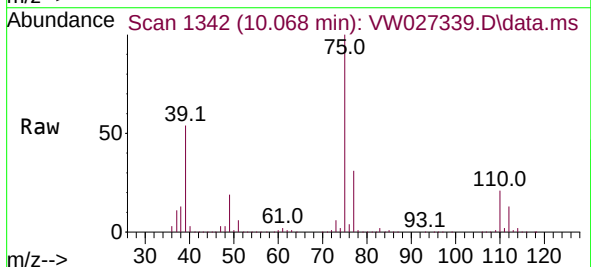
Acq: 19 Oct 2023 11:14

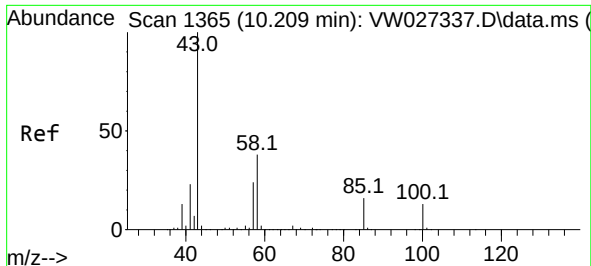
Tgt Ion: 75 Resp: 618456

Ion Ratio Lower Upper

75 100

77 30.9 21.9 40.7

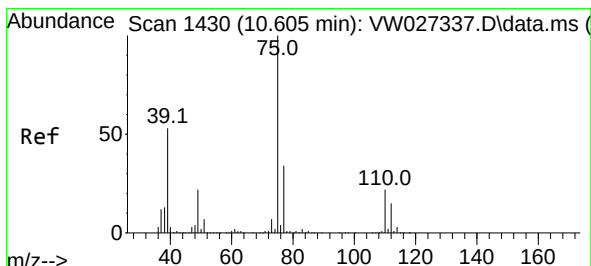
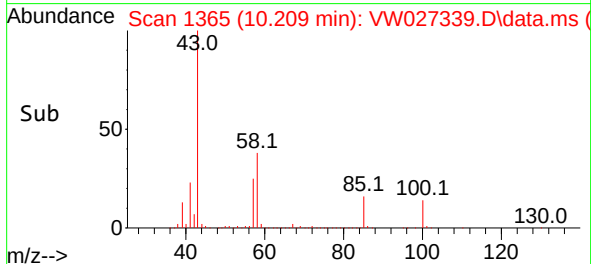
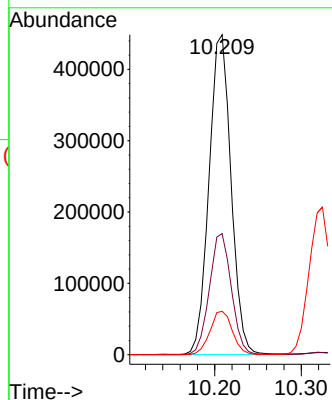
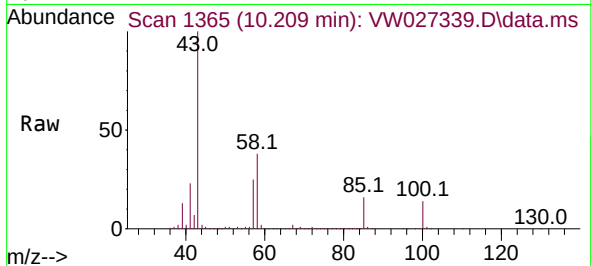




#40
4-Methyl-2-pentanone
Concen: 164.834 ug/L
RT: 10.209 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

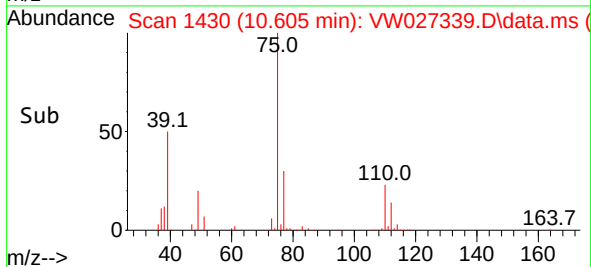
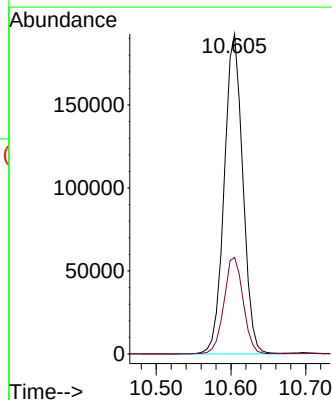
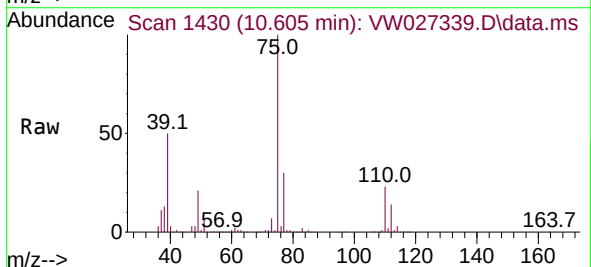
Instrument :
MSVOA_W
ClientSampleId :

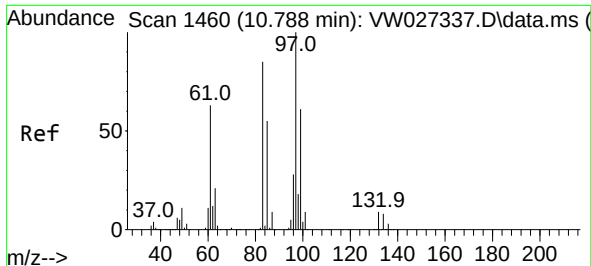
Tgt Ion: 43 Resp: 792208
Ion Ratio Lower Upper
43 100
58 37.8 30.5 45.7
100 13.8 11.5 17.3



#44
trans-1,3-Dichloropropene
Concen: 34.198 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion: 75 Resp: 333118
Ion Ratio Lower Upper
75 100
77 30.1 22.0 41.0

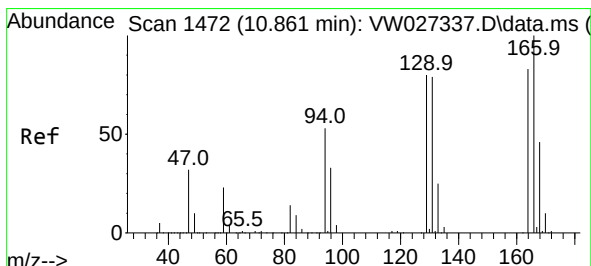
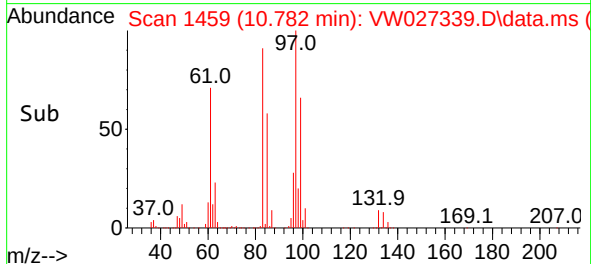
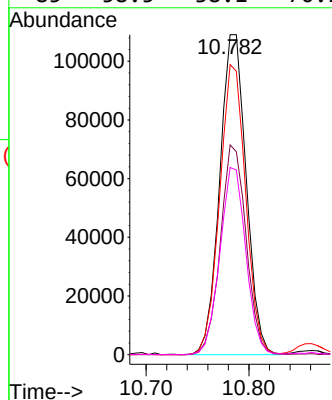
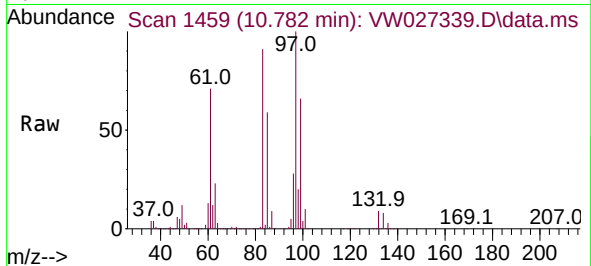




#45
1,1,2-Trichloroethane
Concen: 40.622 ug/L
RT: 10.782 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

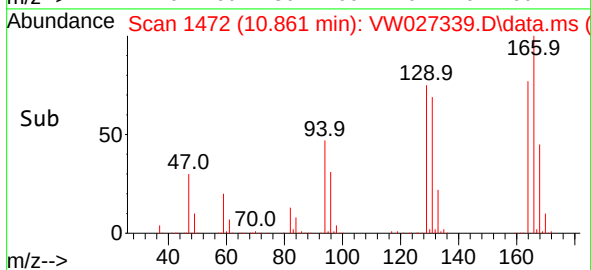
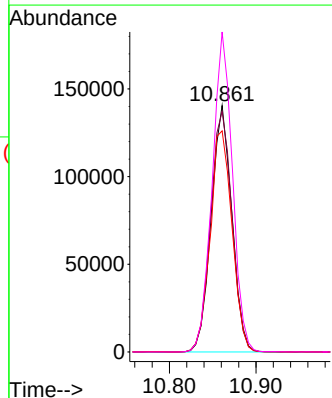
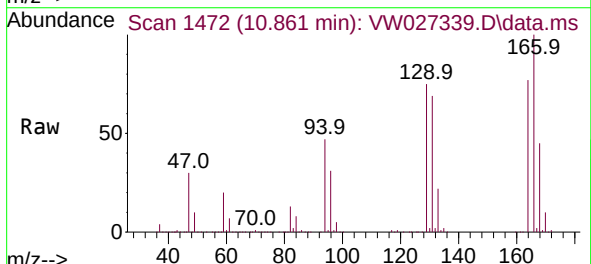
Instrument :
MSVOA_W
ClientSampleId :

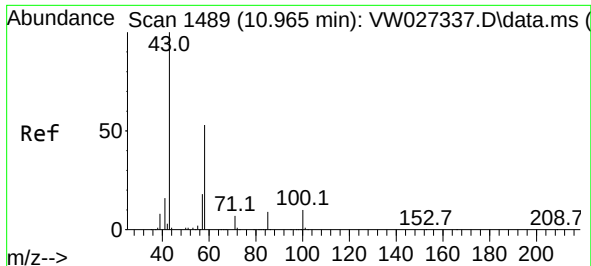
Tgt Ion: 97 Resp: 195352
Ion Ratio Lower Upper
97 100
99 65.6 43.8 81.4
83 90.6 57.5 106.7
85 58.5 38.1 70.9



#46
Tetrachloroethene
Concen: 49.421 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

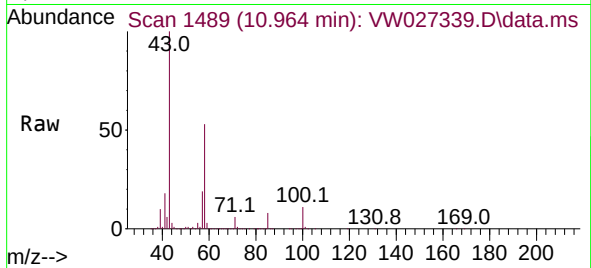
Tgt Ion: 164 Resp: 232979
Ion Ratio Lower Upper
164 100
129 97.6 74.7 138.7
131 89.7 73.2 136.0
166 129.9 87.3 162.1





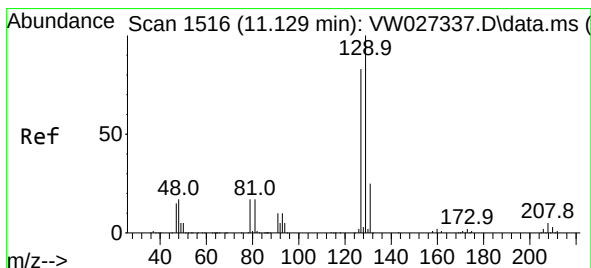
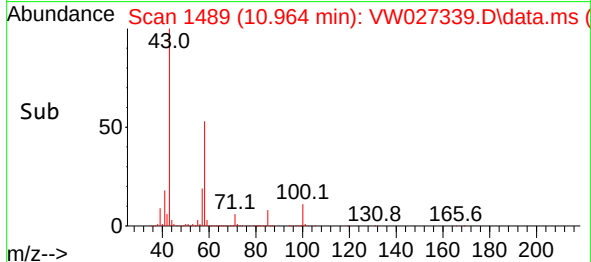
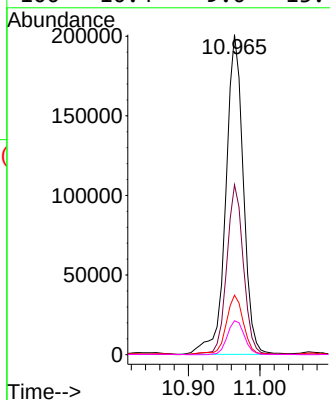
#48
2-Hexanone
Concen: 96.136 ug/L
RT: 10.964 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion: 43 Resp: 341976

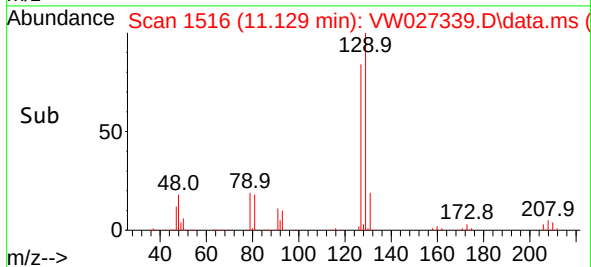
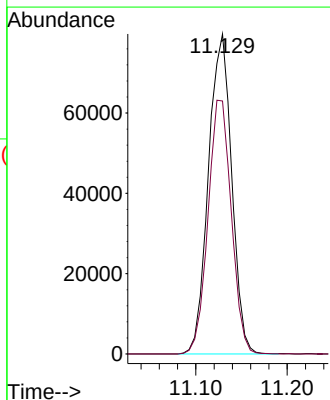
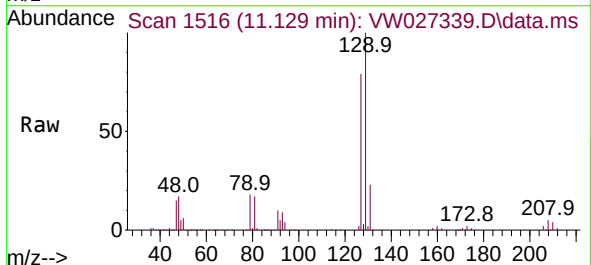
Ion	Ratio	Lower	Upper
43	100		
58	50.6	42.2	63.4
57	17.8	15.1	22.7
100	10.4	9.0	13.4

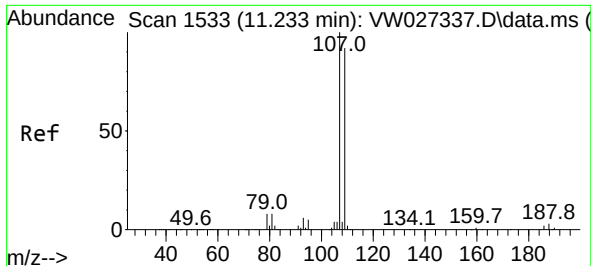


#49
Dibromochloromethane
Concen: 26.436 ug/L
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion: 129 Resp: 141190

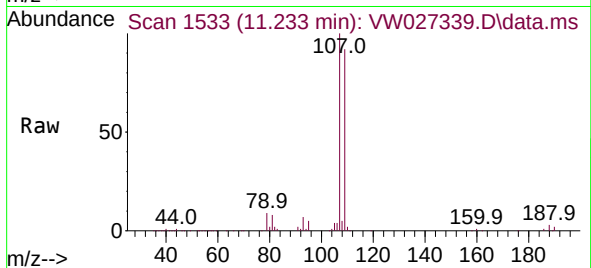
Ion	Ratio	Lower	Upper
129	100		
127	79.1	51.7	95.9



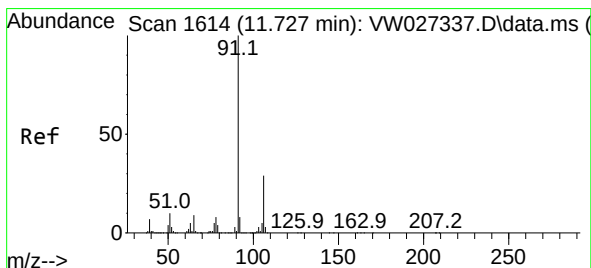
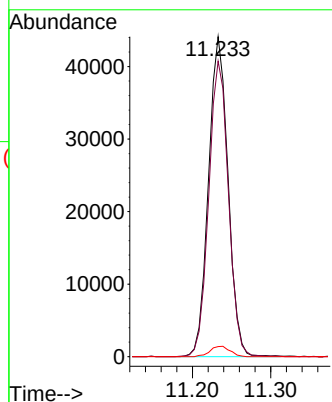
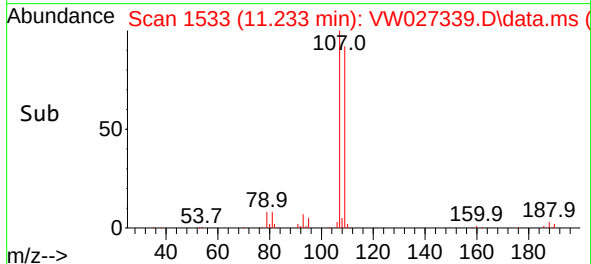


#50
1,2-Dibromoethane
Concen: 16.390 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Instrument :
MSVOA_W
ClientSampleId :

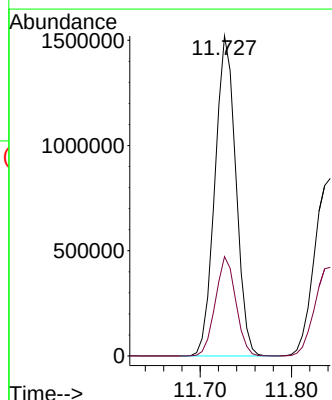
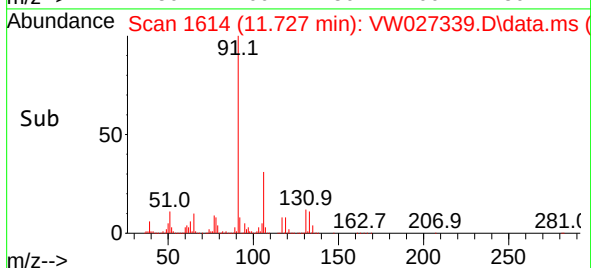
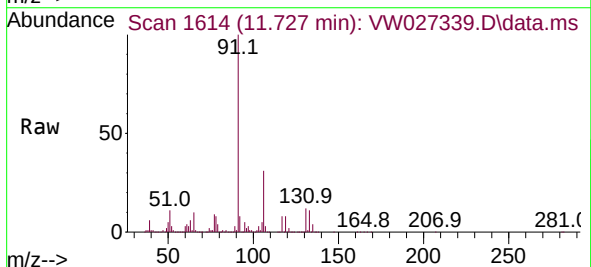


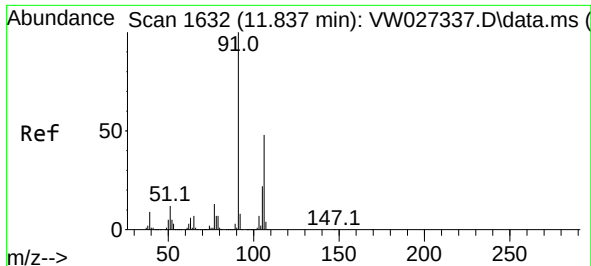
Tgt Ion:107 Resp: 76420
Ion Ratio Lower Upper
107 100
109 92.4 66.3 123.1
188 3.2 3.0 4.4



#52
Ethylbenzene
Concen: 76.779 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion: 91 Resp: 2419136
Ion Ratio Lower Upper
91 100
106 31.0 19.8 36.8

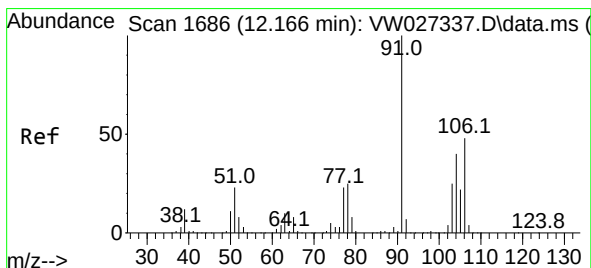
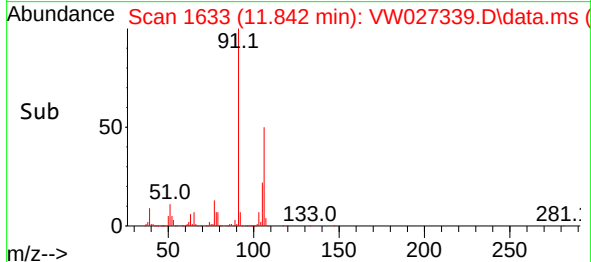
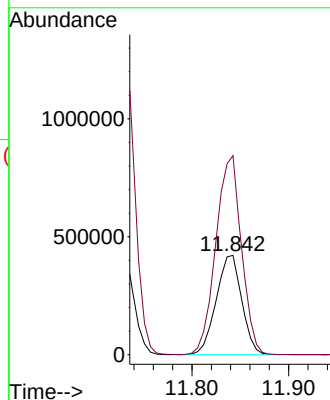
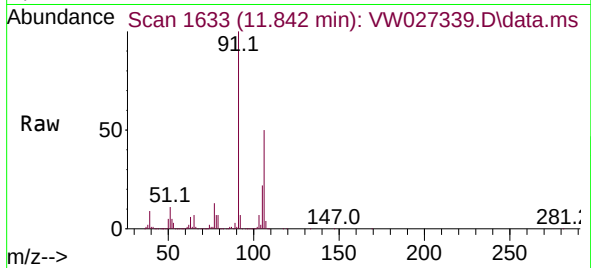




#53
m,p-Xylene
Concen: 64.531 ug/L
RT: 11.842 min Scan# 1633
Delta R.T. 0.006 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

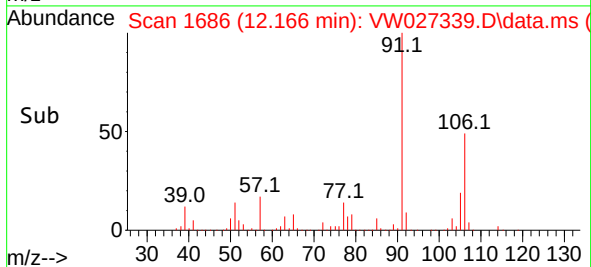
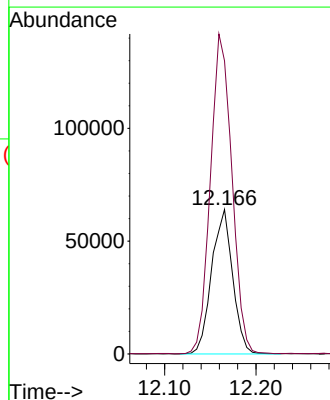
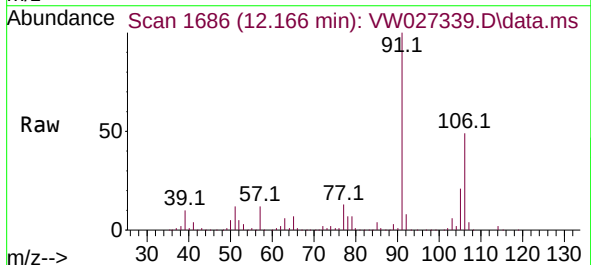
Instrument :
MSVOA_W
ClientSampleId :

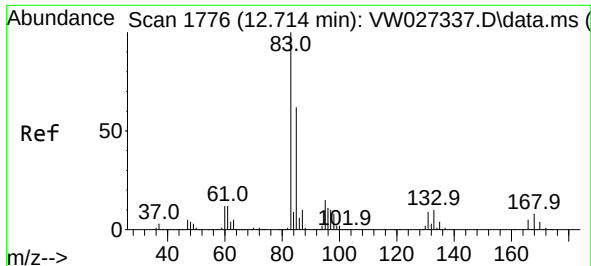
Tgt Ion:106 Resp: 771175
Ion Ratio Lower Upper
106 100
91 200.5 144.5 268.4



#54
o-Xylene
Concen: 8.954 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion:106 Resp: 102466
Ion Ratio Lower Upper
106 100
91 202.8 152.0 282.2





#57

1,1,2,2-Tetrachloroethane

Concen: 16.707 ug/L

RT: 12.708 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW027339.D

Acq: 19 Oct 2023 11:14

Instrument :

MSVOA_W

ClientSampleId :

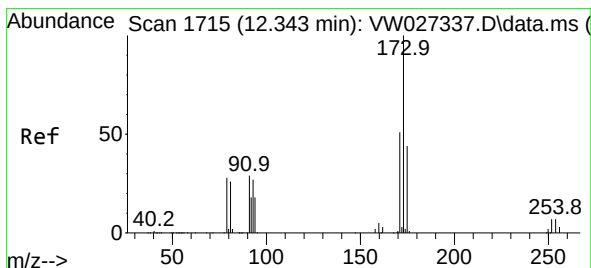
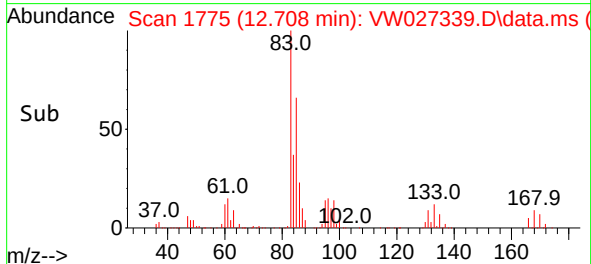
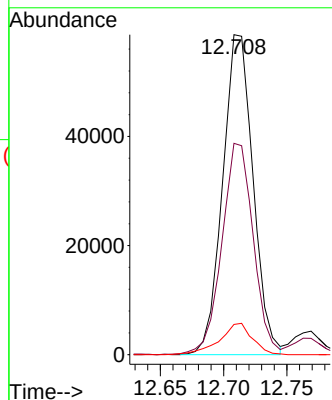
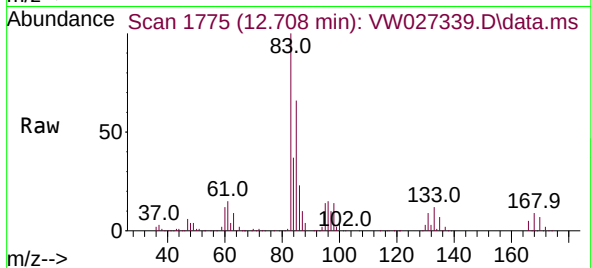
Tgt Ion: 83 Resp: 98079

Ion Ratio Lower Upper

83 100

85 66.1 43.2 80.2

131 9.5 7.2 10.8



#59

Bromoform

Concen: 42.203 ug/L

RT: 12.348 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VW027339.D

Acq: 19 Oct 2023 11:14

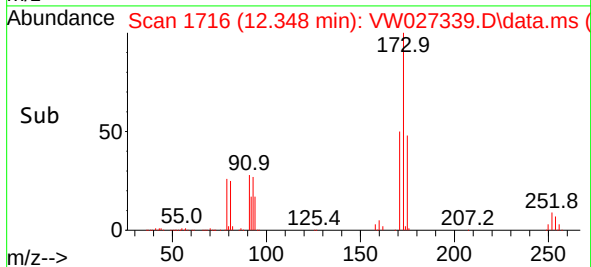
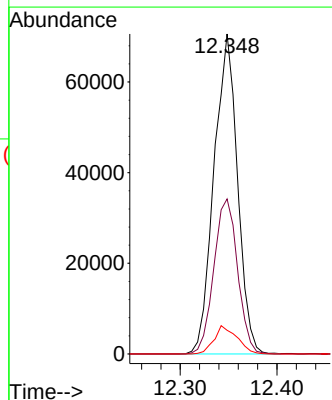
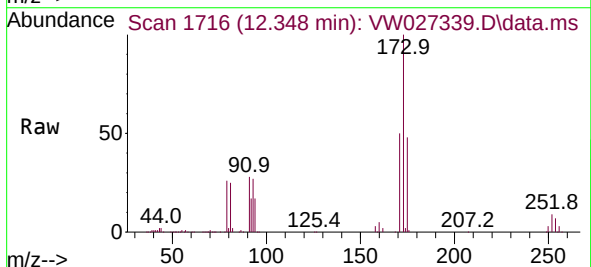
Tgt Ion:173 Resp: 119229

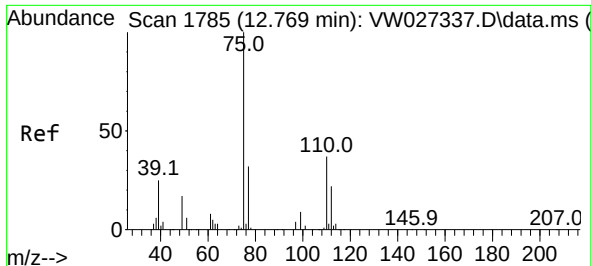
Ion Ratio Lower Upper

173 100

175 48.9 39.6 59.4

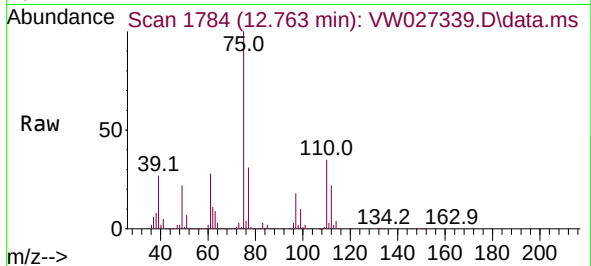
254 8.6 6.6 10.0



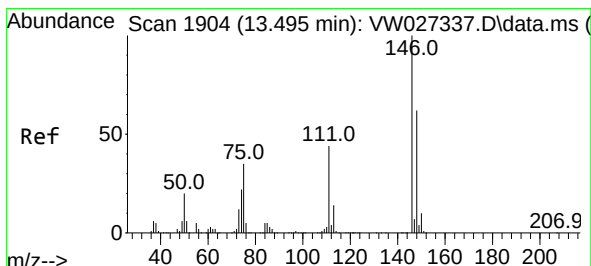
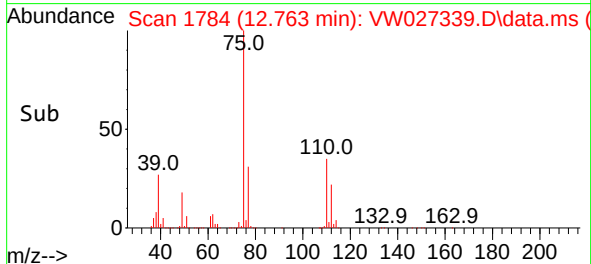
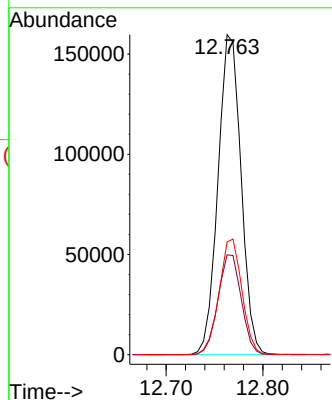


#61
1,2,3-Trichloropropane
Concen: 63.745 ug/L
RT: 12.763 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Instrument :
MSVOA_W
ClientSampleId :

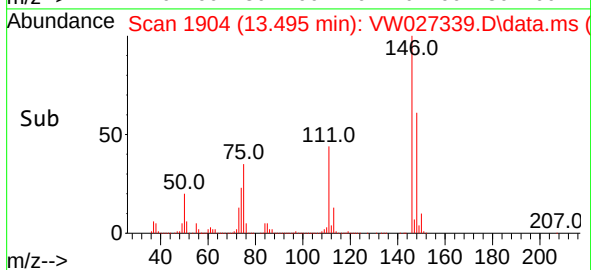
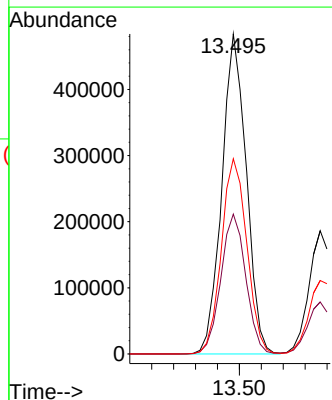
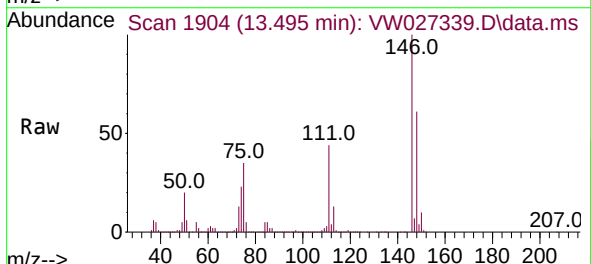


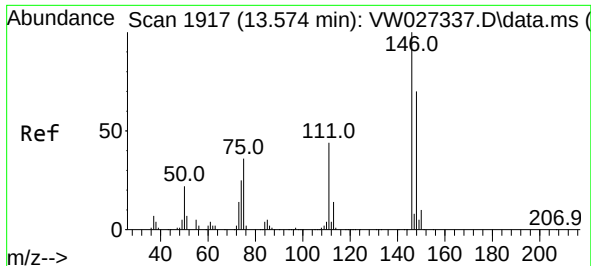
Tgt Ion: 75 Resp: 264260
Ion Ratio Lower Upper
75 100
77 31.5 25.4 38.0
110 35.9 29.7 44.5



#64
1,3-Dichlorobenzene
Concen: 61.905 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion:146 Resp: 748733
Ion Ratio Lower Upper
146 100
111 43.7 30.8 57.2
148 61.0 46.3 85.9

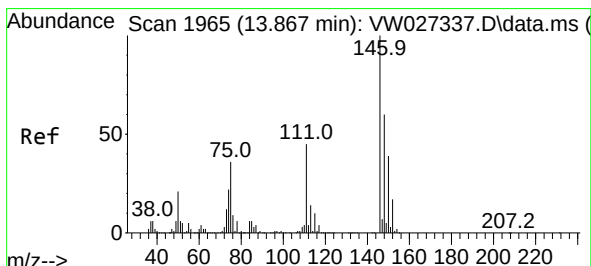
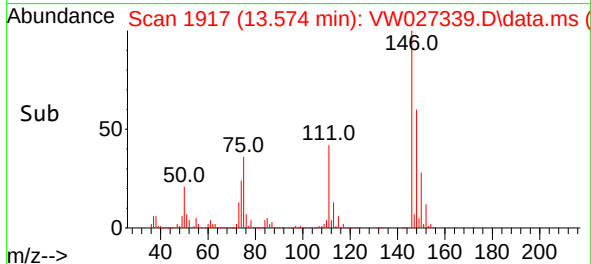
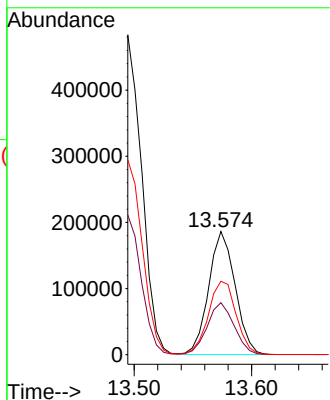
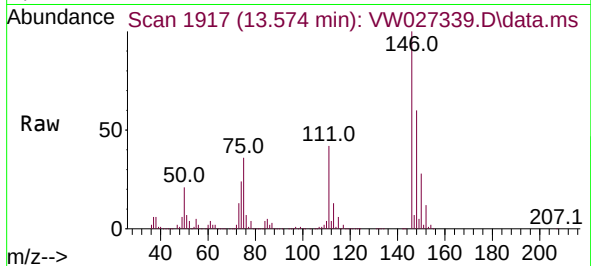




#65
1,4-Dichlorobenzene
Concen: 24.127 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

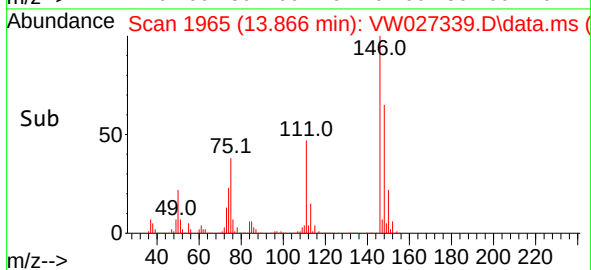
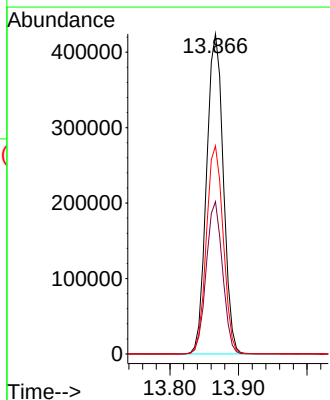
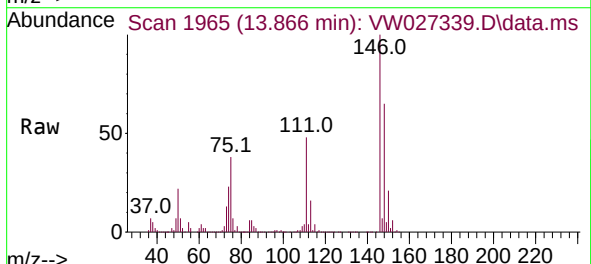
Instrument :
MSVOA_W
ClientSampleId :

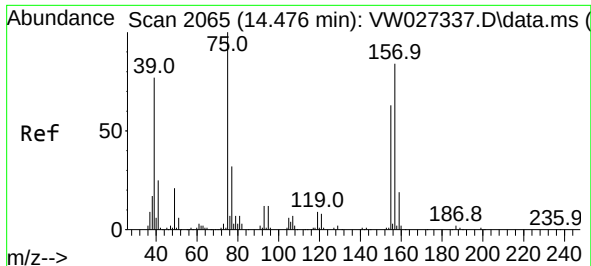
Tgt Ion:146 Resp: 291417
Ion Ratio Lower Upper
146 100
111 42.2 29.5 54.9
148 59.7 43.0 79.8



#67
1,2-Dichlorobenzene
Concen: 67.119 ug/L
RT: 13.866 min Scan# 1965
Delta R.T. -0.000 min
Lab File: VW027339.D
Acq: 19 Oct 2023 11:14

Tgt Ion:146 Resp: 720351
Ion Ratio Lower Upper
146 100
111 47.6 36.8 55.2
148 65.0 52.3 78.5





#68

1,2-Dibromo-3-chloropropane

Concen: 20.045 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VW027339.D

Acq: 19 Oct 2023 11:14

Instrument :

MSVOA_W

ClientSampleId :

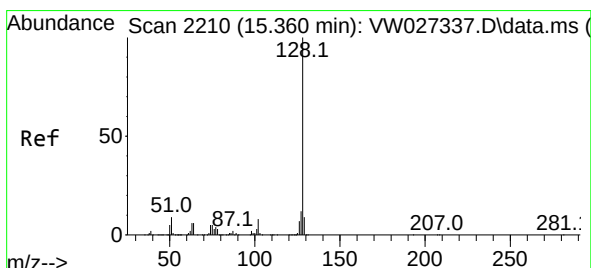
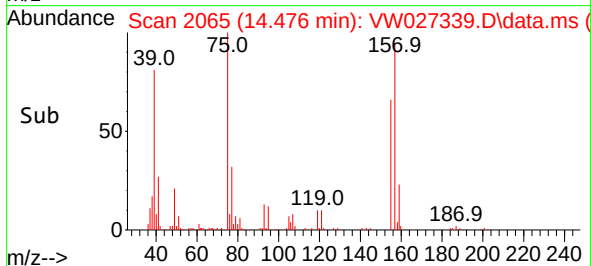
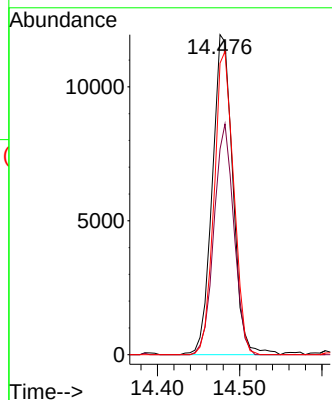
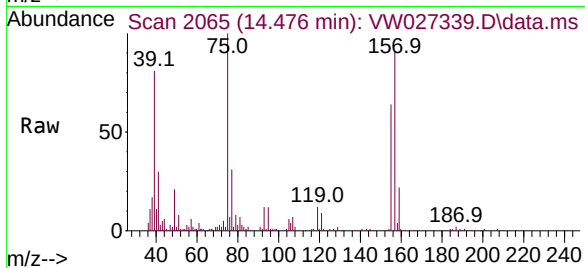
Tgt Ion: 75 Resp: 20768

Ion Ratio Lower Upper

75 100

155 64.2 54.9 82.3

157 91.1 64.7 97.1



#71

Naphthalene

Concen: 49.435 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VW027339.D

Acq: 19 Oct 2023 11:14

Tgt Ion: 128 Resp: 679374

Ion Ratio Lower Upper

128 100

127 12.9 10.0 15.0

129 10.4 8.5 12.7

