

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062823\
 Data File : VD076622.D
 Acq On : 28 Jun 2023 17:56
 Operator : KP/SY
 Sample : 03422-22
 Misc : 4.50G/10.0ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 A46G1

Quant Time: Jun 29 01:31:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061523SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 16 01:50:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.781	114	18823	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	13817	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.522	152	4389	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.264	65	5961	13.004	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	52.000%
7) Chloroethane-d5	2.793	69	6227	16.800	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	67.200%
11) 1,1-Dichloroethene-d2	3.916	65	1906	15.929	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	63.720%
21) 2-Butanone-d5	6.993	46	12485	179.840	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	359.680%#
24) Chloroform-d	7.557	84	6485	13.077	ug/L	-0.01
Spiked Amount	25.000	Range	40 - 150	Recovery	=	52.320%
26) 1,2-Dichloroethane-d4	8.228	65	8441	34.503	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	138.000%#
32) Benzene-d6	8.193	84	18381	21.747	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.000%
36) 1,2-Dichloropropane-d6	9.210	67	8262	30.624	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	122.480%#
41) Toluene-d8	10.263	98	13096	16.734	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	66.920%
43) trans-1,3-Dichloroprop...	10.522	79	3160	28.160	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	112.640%
47) 2-Hexanone-d5	10.881	63	7033	167.935	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	335.880%#
56) 1,1,2,2-Tetrachloroeth...	12.645	84	9818	51.151	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	204.600%#
66) 1,2-Dichlorobenzene-d4	13.810	152	3362	20.898	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	83.600%
Target Compounds						Qvalue
3) Chloromethane	2.146	50	377	0.773	ug/L #	41
5) Vinyl chloride	2.522	62	162	0.308	ug/L #	45
6) Bromomethane	2.693	94	203	0.697	ug/L	91
8) Chloroethane	3.022	64	124	0.385	ug/L #	43
13) Acetone	4.016	43	7246	129.226	ug/L	97
15) Methyl Acetate	4.558	43	136	1.062	ug/L #	53
16) Methylene chloride	4.781	84	222	0.679	ug/L #	45
22) 2-Butanone	7.069	43	1706	18.853	ug/L	78
25) Chloroform	7.557	83	172	0.354	ug/L #	18
27) 1,2-Dichloroethane	8.193	62	155	0.519	ug/L #	71
34) Trichloroethene	8.775	95	366	1.558	ug/L #	4
35) Methylcyclohexane	9.240	83	120	0.317	ug/L #	19
37) 1,2-Dichloropropane	9.210	63	750	3.008	ug/L #	88
39) cis-1,3-Dichloropropene	9.975	75	322	0.846	ug/L #	42
40) 4-Methyl-2-pentanone	10.145	43	135	0.870	ug/L #	44
57) 1,1,2,2-Tetrachloroethane	12.892	83	278	1.422	ug/L #	87
60) Isopropylbenzene	13.063	105	433	0.645	ug/L #	52
61) 1,2,3-Trichloropropane	12.722	75	331	3.886	ug/L #	38
62) 1,3,5-Trimethylbenzene	13.063	105	433	0.806	ug/L #	28

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Quant Time: Jun 29 01:31:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061523SMA.M
Quant Title : SFAM01.0
QLast Update : Fri Jun 16 01:50:34 2023
Response via : Initial Calibration

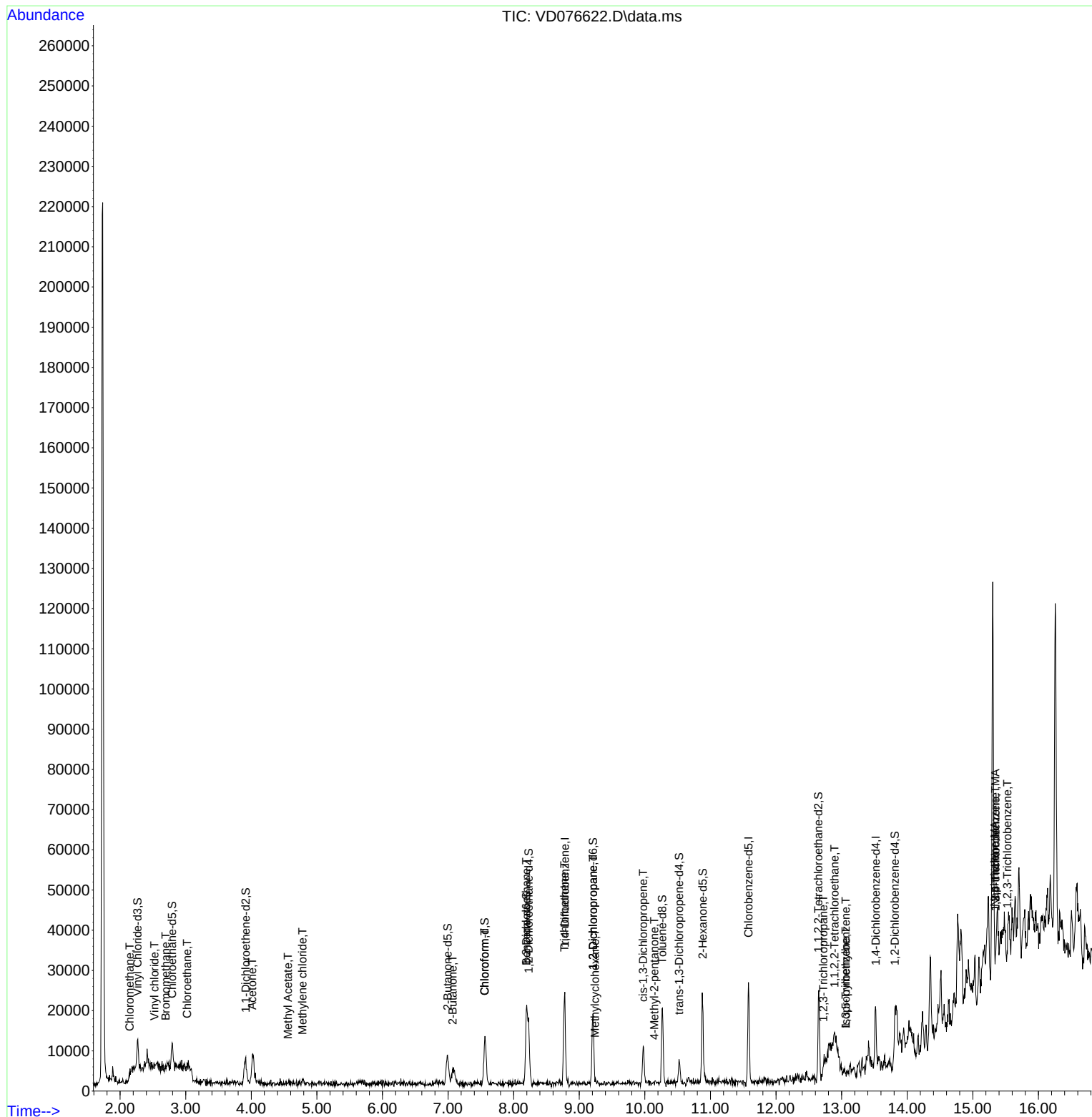
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) 1,3,5-Trichlorobenzene	15.345	180	84	0.422	ug/L #	23
70) 1,2,4-trichlorobenzene	15.345	180	84	0.474	ug/L #	18
71) Naphthalene	15.333	128	328	0.967	ug/L #	69
72) 1,2,3-Trichlorobenzene	15.528	180	219	1.423	ug/L #	47

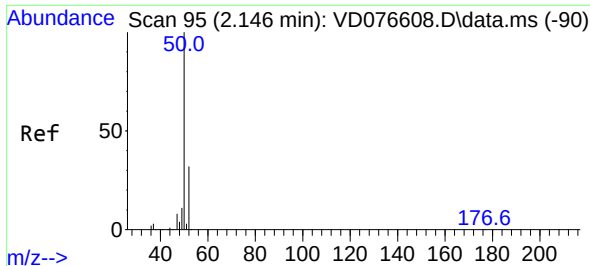
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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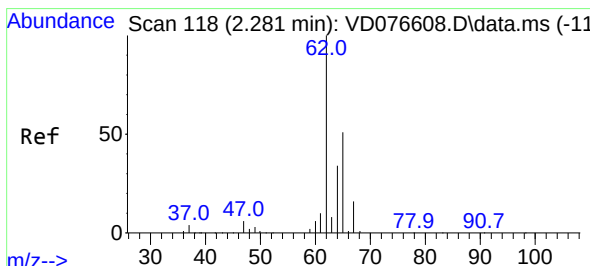
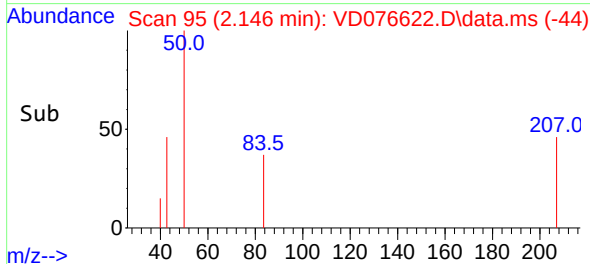
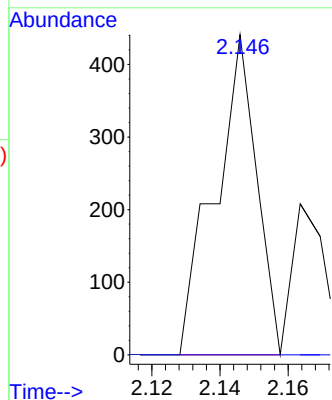
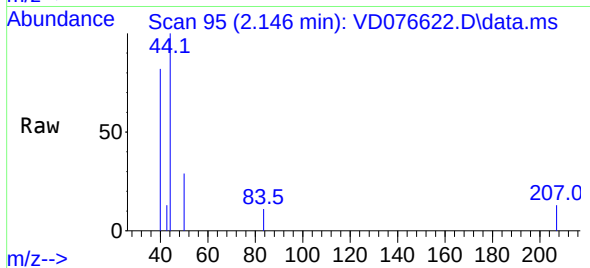




#3
Chloromethane
Concen: 0.773 ug/L
RT: 2.146 min Scan# 91
Delta R.T. -0.000 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

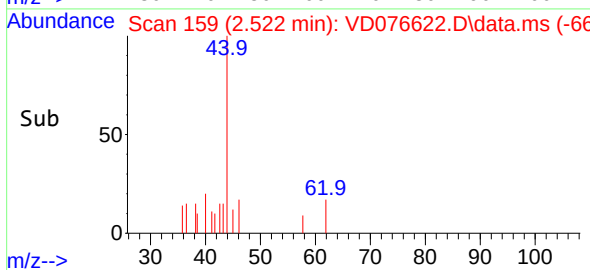
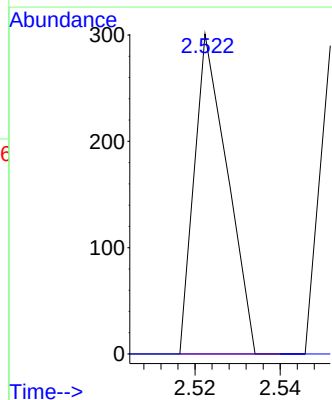
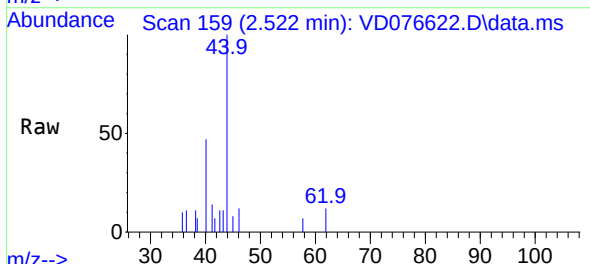
Instrument :
MSVOA_D
ClientSampleId :
A46G1

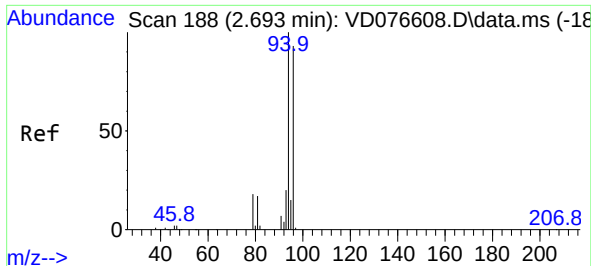
Tgt Ion: 50 Resp: 377
Ion Ratio Lower Upper
50 100
52 0.0 23.2 43.2#



#5
Vinyl chloride
Concen: 0.308 ug/L
RT: 2.522 min Scan# 159
Delta R.T. 0.247 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion: 62 Resp: 162
Ion Ratio Lower Upper
62 100
64 0.0 21.1 39.1#

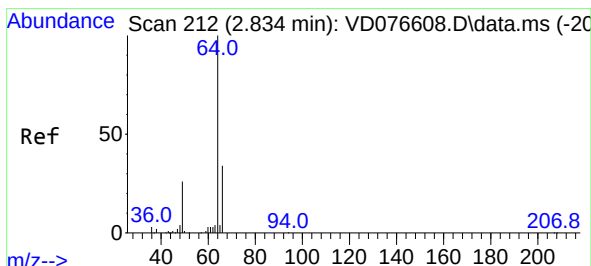
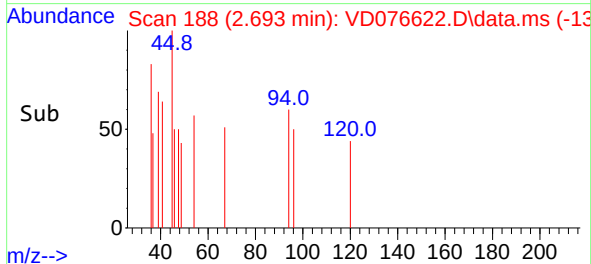
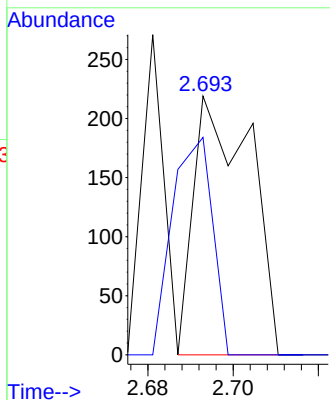
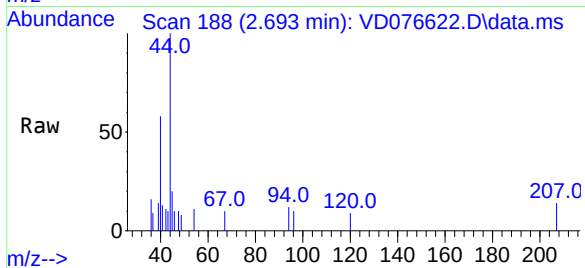




#6
Bromomethane
Concen: 0.697 ug/L
RT: 2.693 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

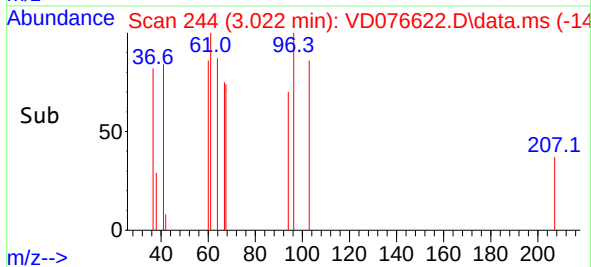
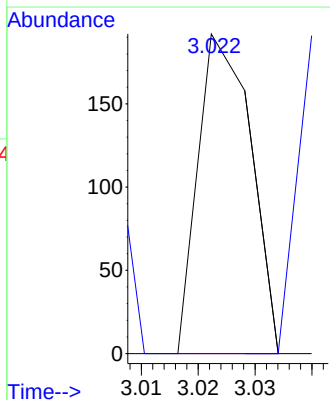
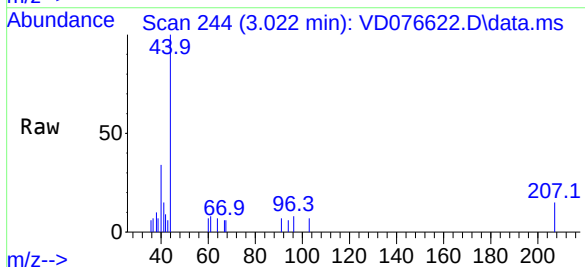
Instrument :
MSVOA_D
ClientSampleId :
A46G1

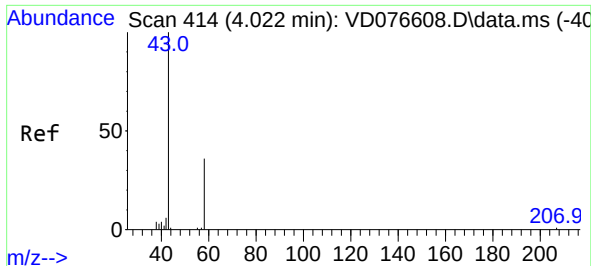
Tgt Ion: 94 Resp: 203
Ion Ratio Lower Upper
94 100
96 84.0 64.7 120.1



#8
Chloroethane
Concen: 0.385 ug/L
RT: 3.022 min Scan# 244
Delta R.T. 0.188 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion: 64 Resp: 124
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#

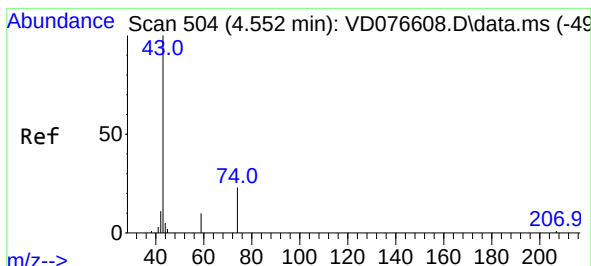
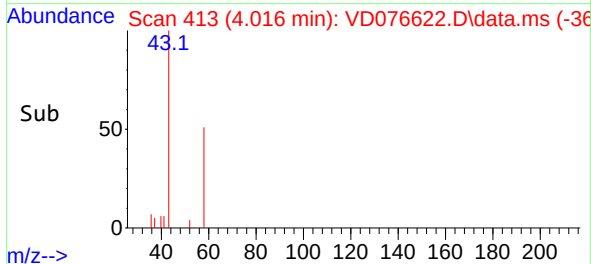
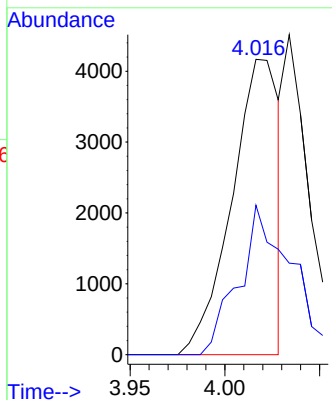
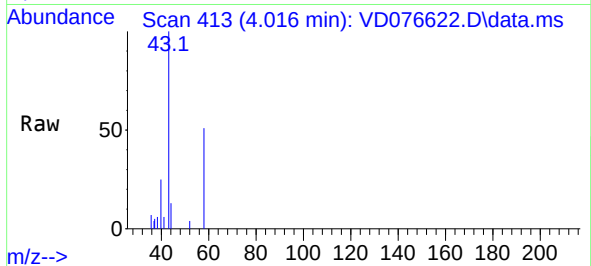




#13
Acetone
Concen: 129.226 ug/L
RT: 4.016 min Scan# 414
Delta R.T. -0.006 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

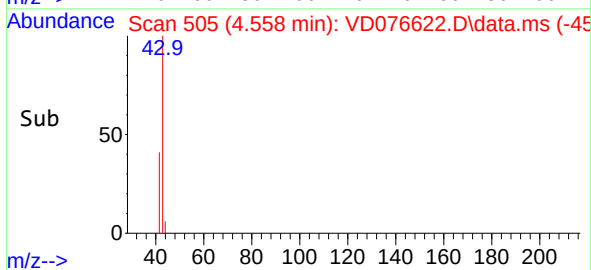
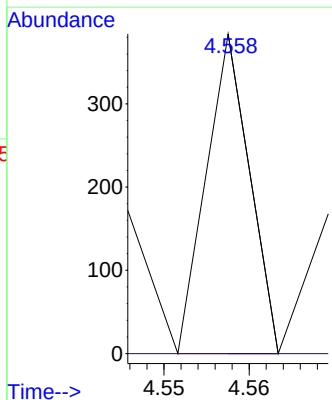
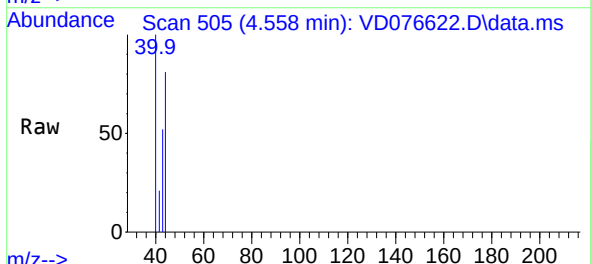
Instrument :
MSVOA_D
ClientSampleId :
A46G1

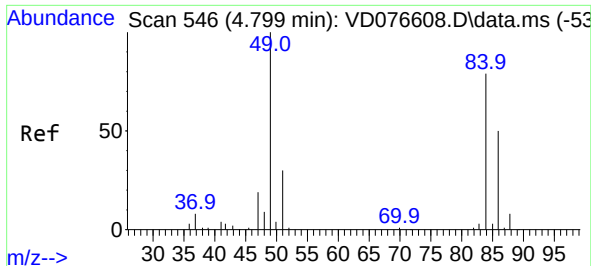
Tgt Ion: 43 Resp: 7246
Ion Ratio Lower Upper
43 100
58 35.2 0.0 67.4



#15
Methyl Acetate
Concen: 1.062 ug/L
RT: 4.558 min Scan# 505
Delta R.T. -0.000 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion: 43 Resp: 136
Ion Ratio Lower Upper
43 100
74 0.0 18.2 27.2#

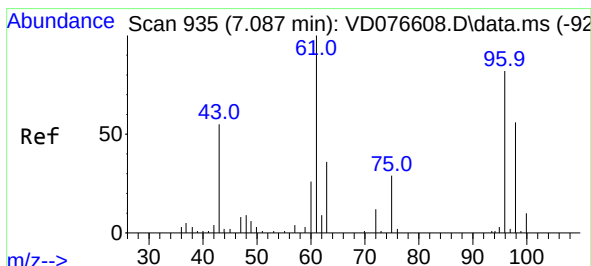
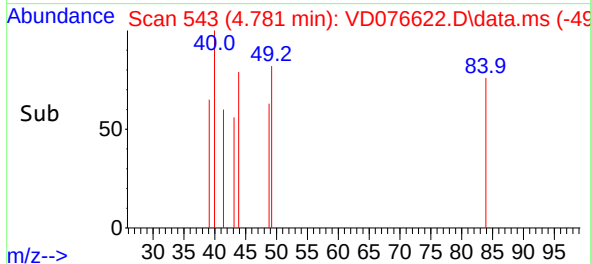
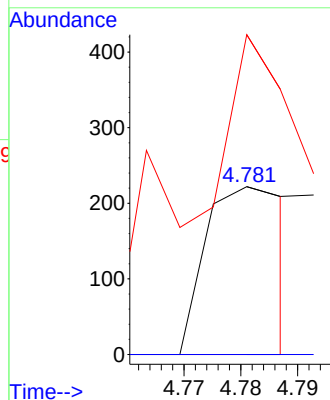
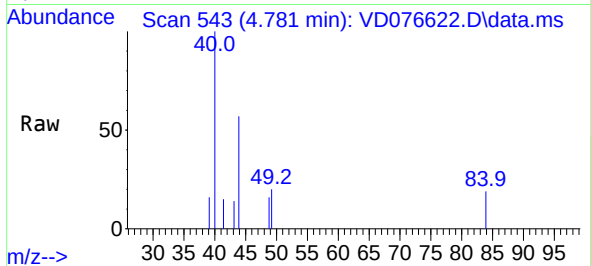




#16
Methylene chloride
Concen: 0.679 ug/L
RT: 4.781 min Scan# 54
Delta R.T. -0.006 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

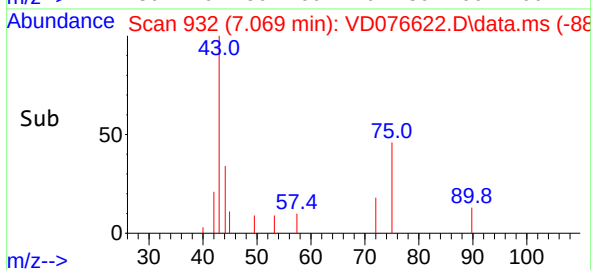
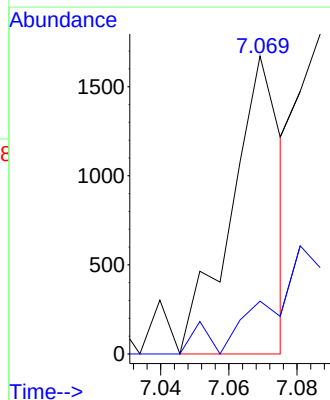
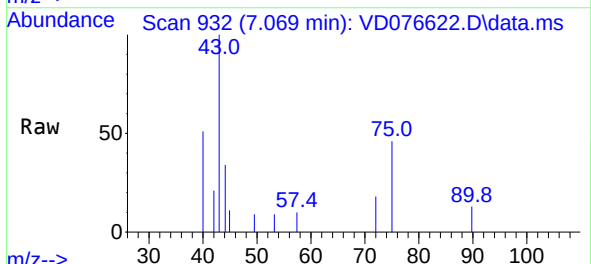
Instrument :
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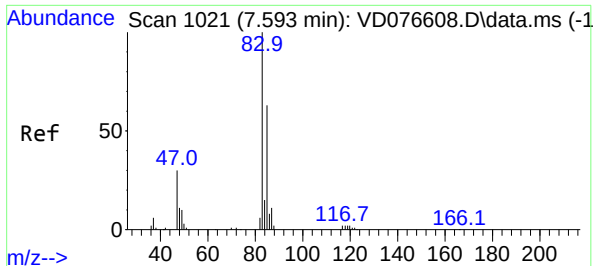
Tgt Ion: 84 Resp: 222
Ion Ratio Lower Upper
84 100
86 0.0 45.1 83.9#
49 190.5 97.2 180.6#



#22
2-Butanone
Concen: 18.853 ug/L
RT: 7.069 min Scan# 932
Delta R.T. -0.012 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion: 43 Resp: 1706
Ion Ratio Lower Upper
43 100
72 14.4 12.9 38.7

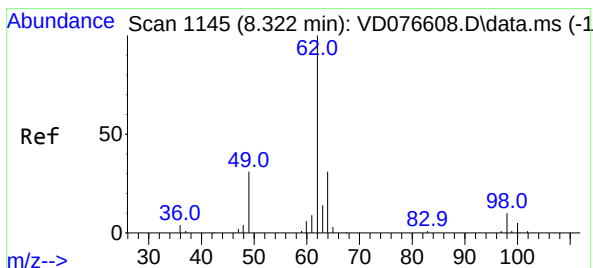
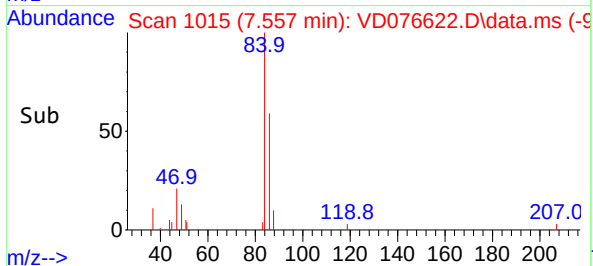
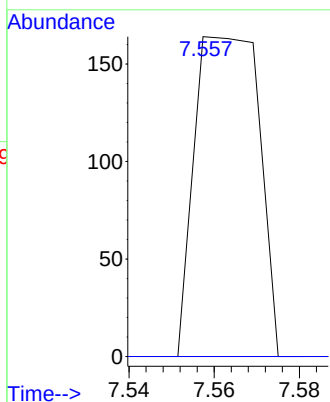
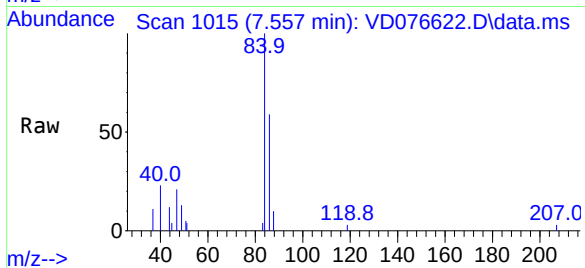




#25
Chloroform
Concen: 0.354 ug/L
RT: 7.557 min Scan# 110
Delta R.T. -0.035 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

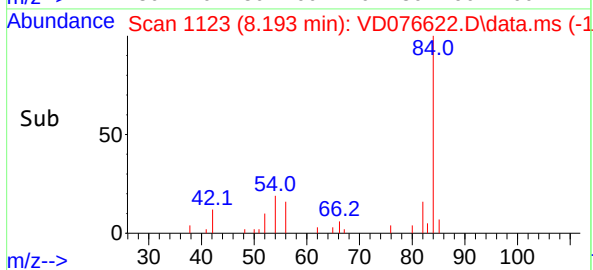
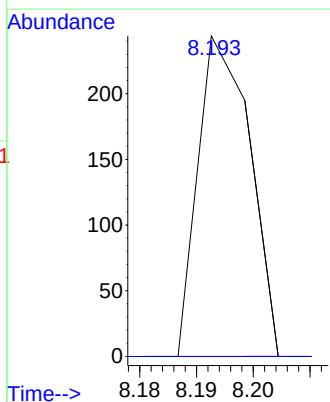
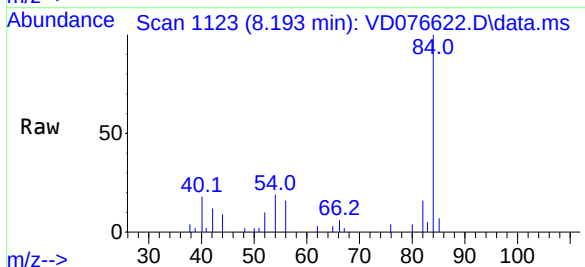
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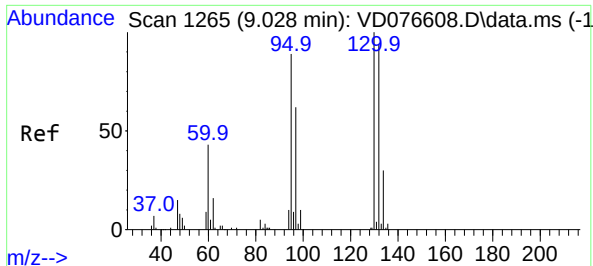
Tgt Ion: 83 Resp: 172
Ion Ratio Lower Upper
83 100
85 0.0 45.4 84.4#



#27
1,2-Dichloroethane
Concen: 0.519 ug/L
RT: 8.193 min Scan# 1123
Delta R.T. -0.130 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion: 62 Resp: 155
Ion Ratio Lower Upper
62 100
98 0.0 8.7 13.1#





#34

Trichloroethene

Concen: 1.558 ug/L

RT: 8.775 min Scan# 11

Delta R.T. -0.253 min

Lab File: VD076622.D

Acq: 28 Jun 2023 17:56

Instrument :

MSVOA_D

ClientSampleId :

A46G1

Tgt Ion: 95 Resp: 366

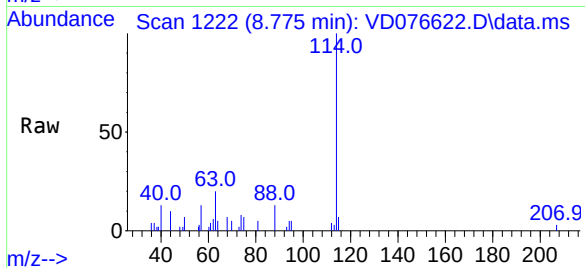
Ion Ratio Lower Upper

95 100

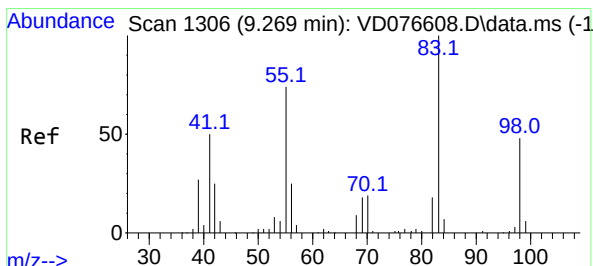
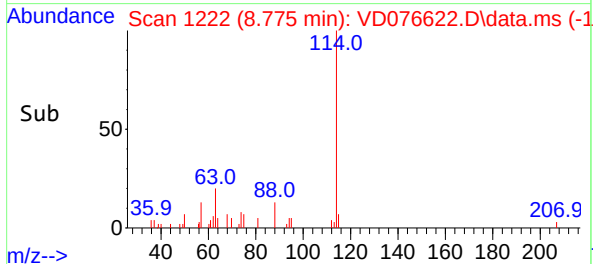
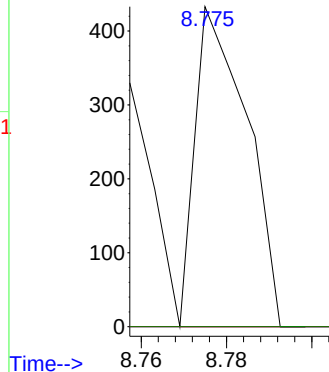
97 0.0 43.1 80.1#

132 0.0 71.8 133.4#

130 0.0 71.9 133.5#



Abundance



#35

Methylcyclohexane

Concen: 0.317 ug/L

RT: 9.240 min Scan# 1301

Delta R.T. -0.030 min

Lab File: VD076622.D

Acq: 28 Jun 2023 17:56

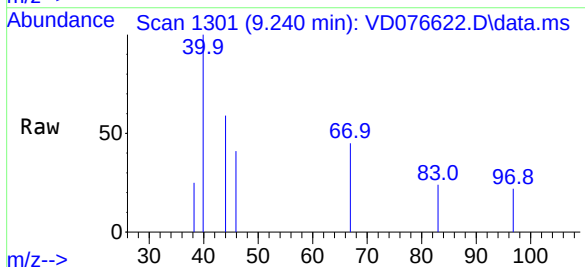
Tgt Ion: 83 Resp: 120

Ion Ratio Lower Upper

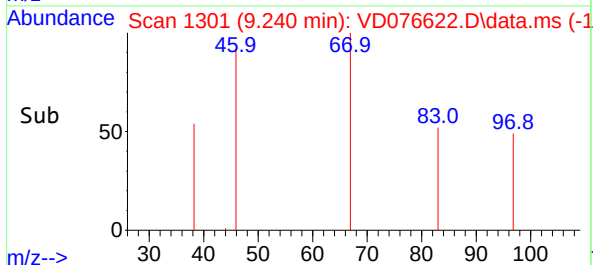
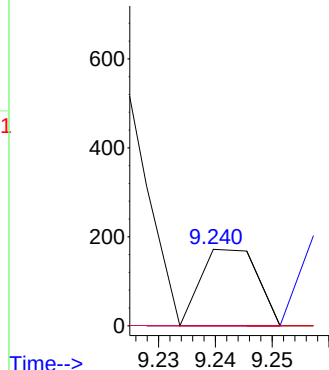
83 100

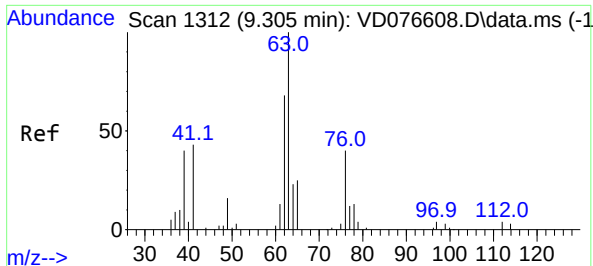
55 0.0 59.8 89.6#

98 0.0 37.8 56.6#



Abundance

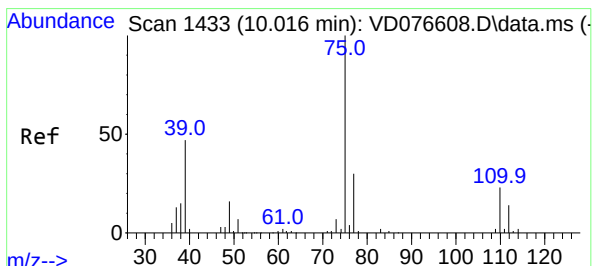
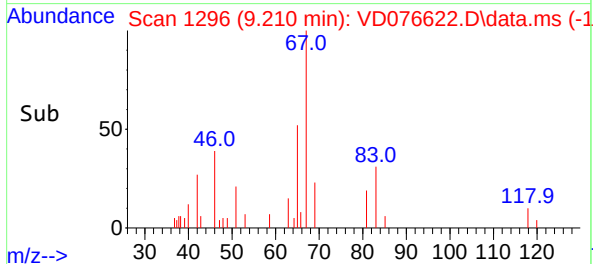
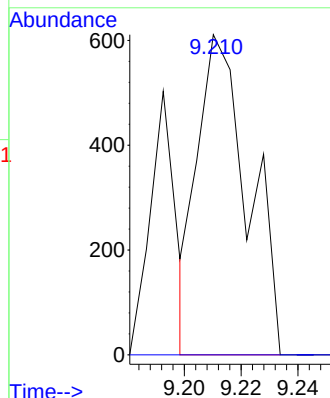
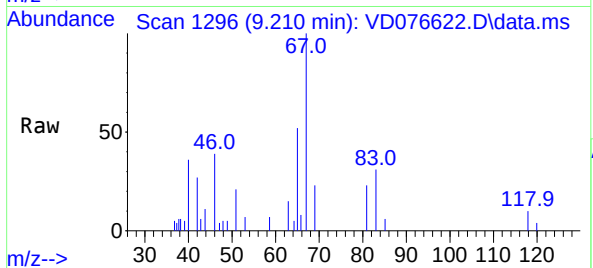




#37
1,2-Dichloropropane
Concen: 3.008 ug/L
RT: 9.210 min Scan# 11
Delta R.T. -0.094 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

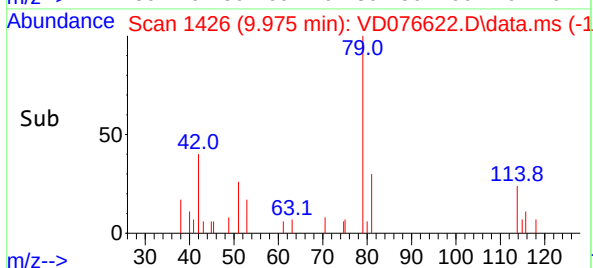
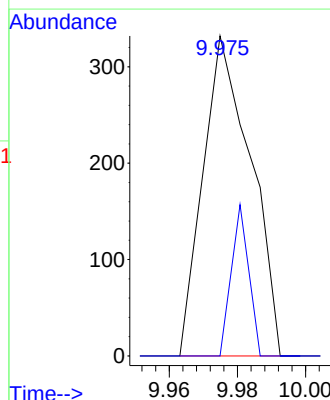
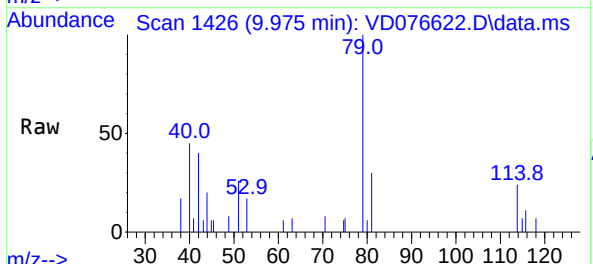
Instrument :
MSVOA_D
ClientSampleId :
A46G1

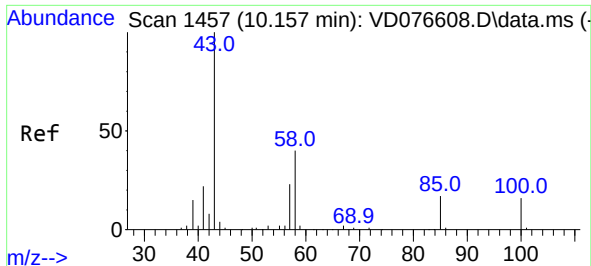
Tgt Ion: 63 Resp: 750
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



#39
cis-1,3-Dichloropropene
Concen: 0.846 ug/L
RT: 9.975 min Scan# 1426
Delta R.T. -0.041 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion: 75 Resp: 322
Ion Ratio Lower Upper
75 100
77 0.0 22.7 42.3#

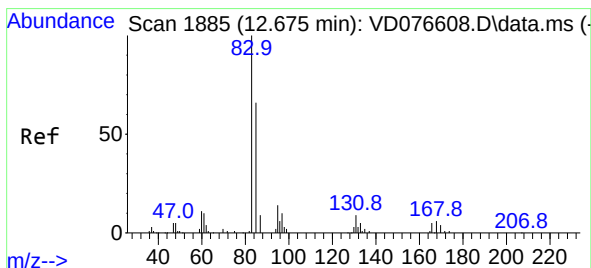
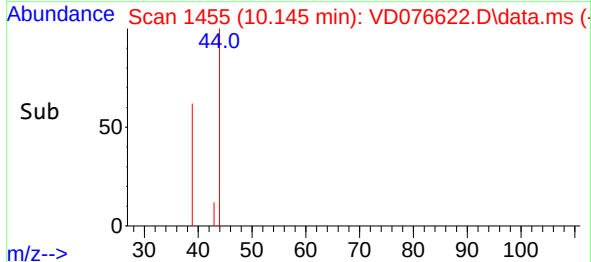
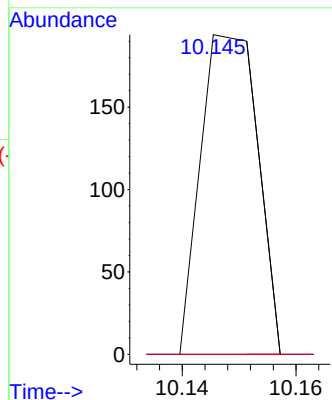
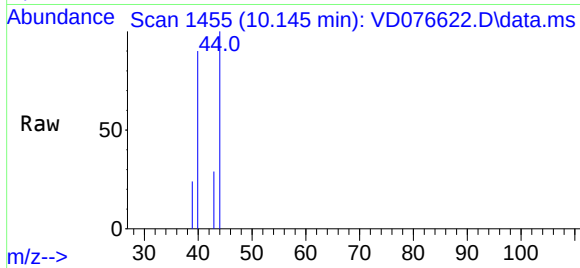




#40
4-Methyl-2-pentanone
Concen: 0.870 ug/L
RT: 10.145 min Scan# 1457
Delta R.T. -0.012 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

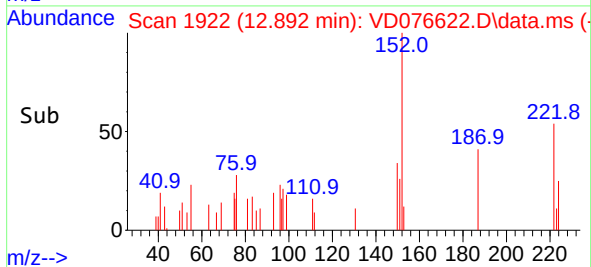
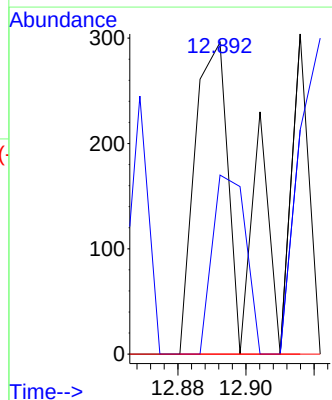
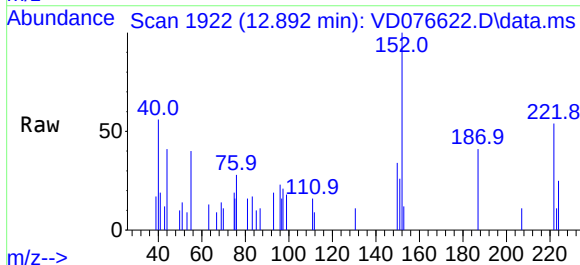
Instrument :
MSVOA_D
ClientSampleId :
A46G1

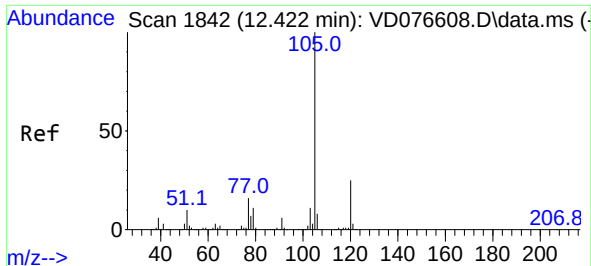
Tgt Ion: 43 Resp: 135
Ion Ratio Lower Upper
43 100
58 0.0 30.7 46.1#
100 0.0 11.0 16.4#



#57
1,1,2,2-Tetrachloroethane
Concen: 1.422 ug/L
RT: 12.892 min Scan# 1922
Delta R.T. 0.217 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion: 83 Resp: 278
Ion Ratio Lower Upper
83 100
85 57.4 46.3 86.1
131 0.0 7.0 10.4#

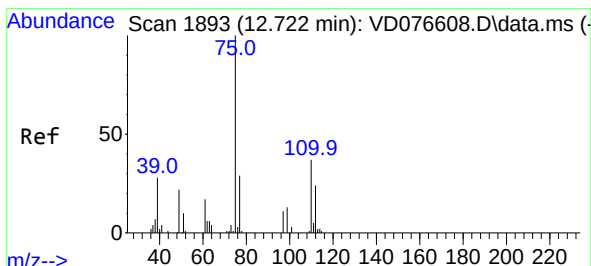
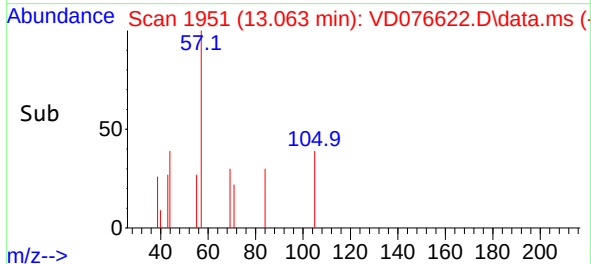
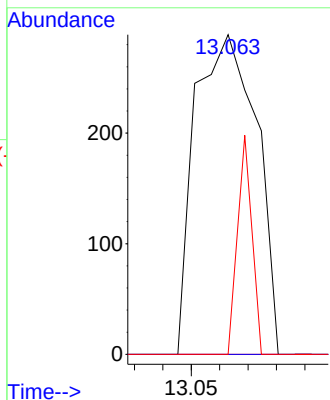
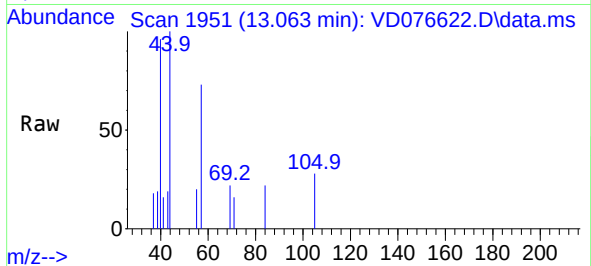




#60
Isopropylbenzene
Concen: 0.645 ug/L
RT: 13.063 min Scan# 1951
Delta R.T. 0.641 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

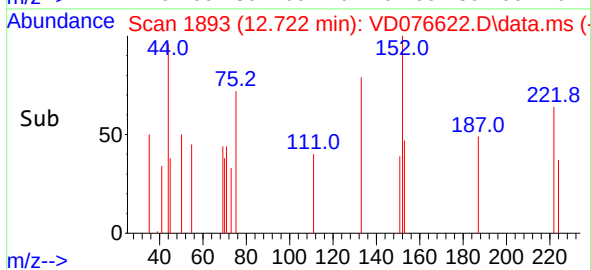
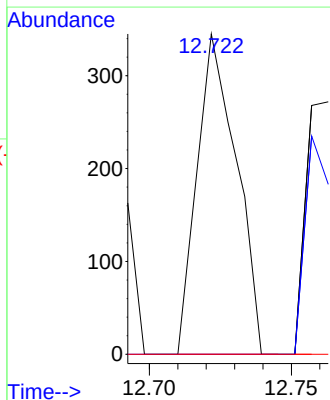
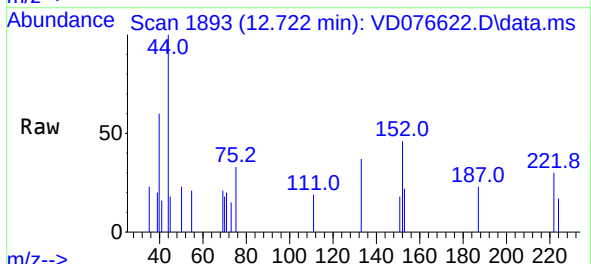
Instrument :
MSVOA_D
ClientSampleId :
A46G1

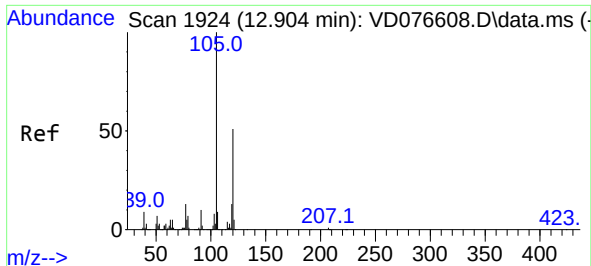
Tgt Ion:105 Resp: 433
Ion Ratio Lower Upper
105 100
120 0.0 21.3 31.9#
77 33.3 12.2 18.4#



#61
1,2,3-Trichloropropane
Concen: 3.886 ug/L
RT: 12.722 min Scan# 1893
Delta R.T. -0.006 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion: 75 Resp: 331
Ion Ratio Lower Upper
75 100
77 0.0 27.2 40.8#
110 0.0 31.8 47.6#

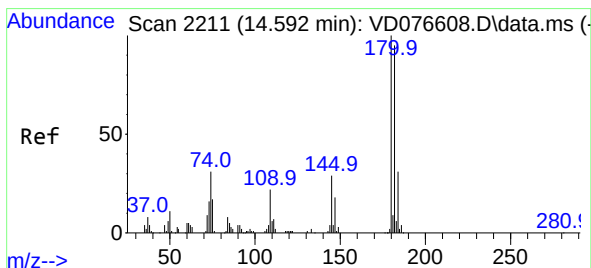
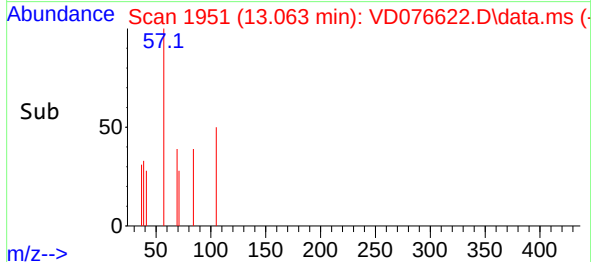
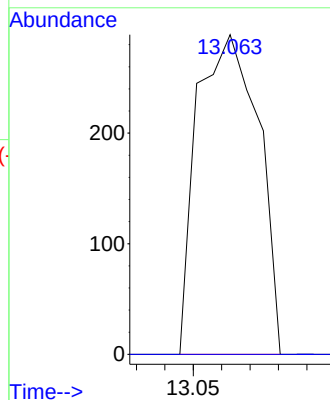
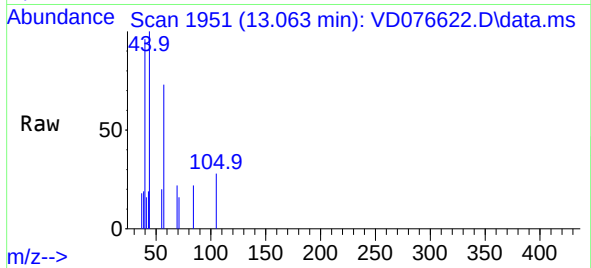




#62
1,3,5-Trimethylbenzene
Concen: 0.806 ug/L
RT: 13.063 min Scan# 1924
Delta R.T. 0.159 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

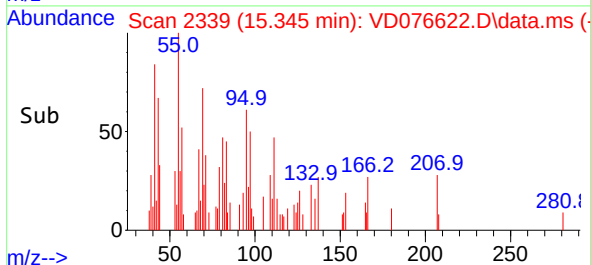
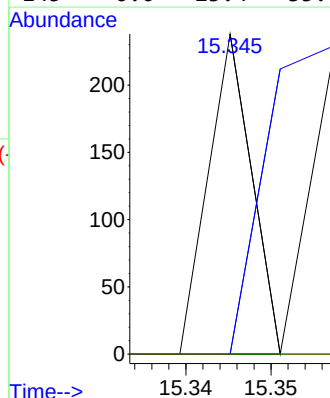
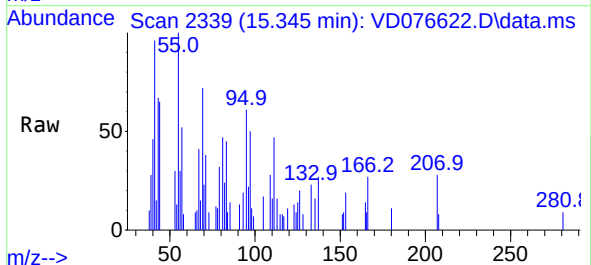
Instrument :
MSVOA_D
ClientSampleId :
A46G1

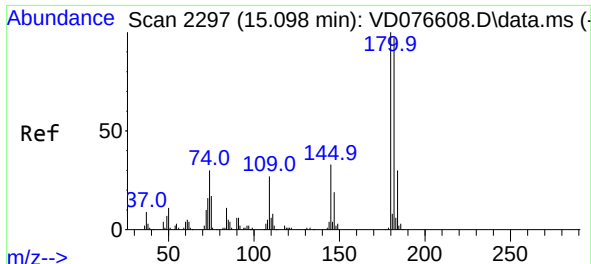
Tgt Ion:105 Resp: 433
Ion Ratio Lower Upper
105 100
120 0.0 39.8 59.6#



#69
1,3,5-Trichlorobenzene
Concen: 0.422 ug/L
RT: 15.345 min Scan# 2339
Delta R.T. 0.753 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Tgt Ion:180 Resp: 84
Ion Ratio Lower Upper
180 100
182 184.5 77.1 115.7#
184 0.0 25.0 37.4#
145 0.0 23.4 35.0#





#70

1,2,4-trichlorobenzene

Concen: 0.474 ug/L

RT: 15.345 min Scan# 21

Delta R.T. 0.247 min

Lab File: VD076622.D

Acq: 28 Jun 2023 17:56

Instrument :

MSVOA_D

ClientSampleId :

A46G1

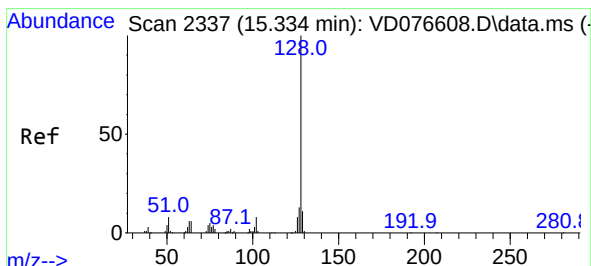
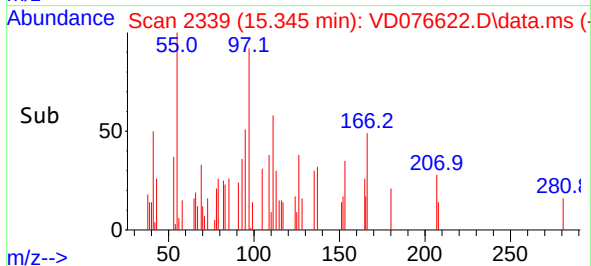
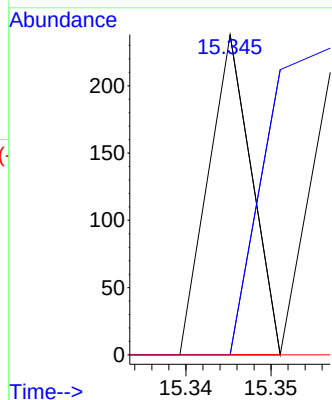
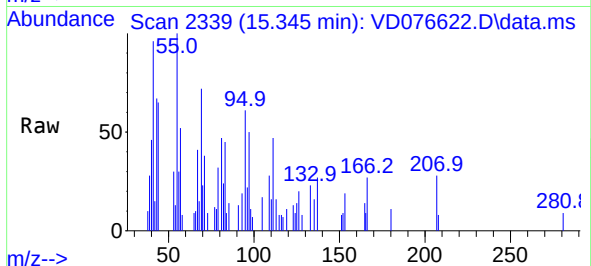
Tgt Ion:180 Resp: 84

Ion Ratio Lower Upper

180 100

182 184.5 76.9 115.3#

145 0.0 23.5 35.3#



#71

Naphthalene

Concen: 0.967 ug/L

RT: 15.333 min Scan# 2337

Delta R.T. -0.000 min

Lab File: VD076622.D

Acq: 28 Jun 2023 17:56

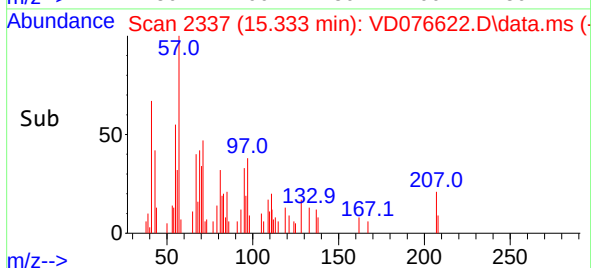
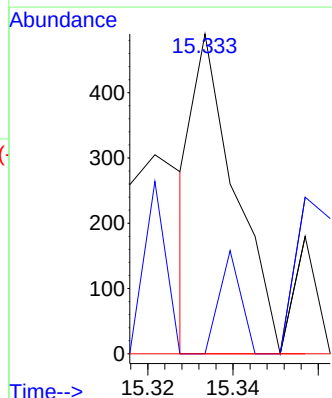
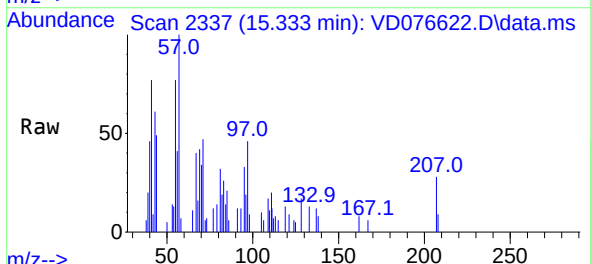
Tgt Ion:128 Resp: 328

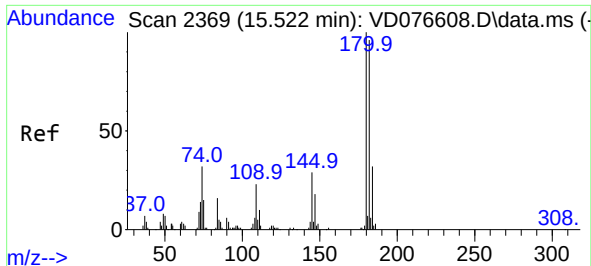
Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

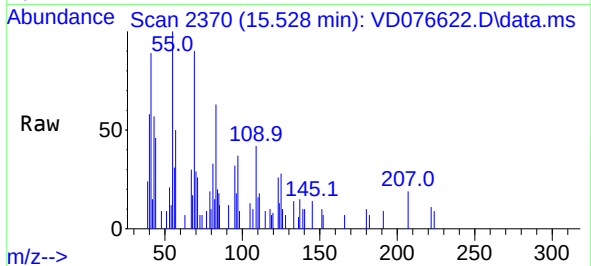
129 0.0 8.6 12.8#





#72
1,2,3-Trichlorobenzene
Concen: 1.423 ug/L
RT: 15.528 min Scan# 21
Delta R.T. 0.006 min
Lab File: VD076622.D
Acq: 28 Jun 2023 17:56

Instrument :
MSVOA_D
ClientSampleId :
A46G1



Tgt Ion:180 Resp: 219
Ion Ratio Lower Upper
180 100
182 68.5 74.3 111.5#
145 106.4 25.0 37.6#

