

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071923\
 Data File : VD076794.D
 Acq On : 19 Jul 2023 16:50
 Operator : KP/SY
 Sample : 03659-03
 Misc : 5.03G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-3-071823

Quant Time: Jul 20 05:00:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 17 08:07:52 2023
 Response via : Initial Calibration

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

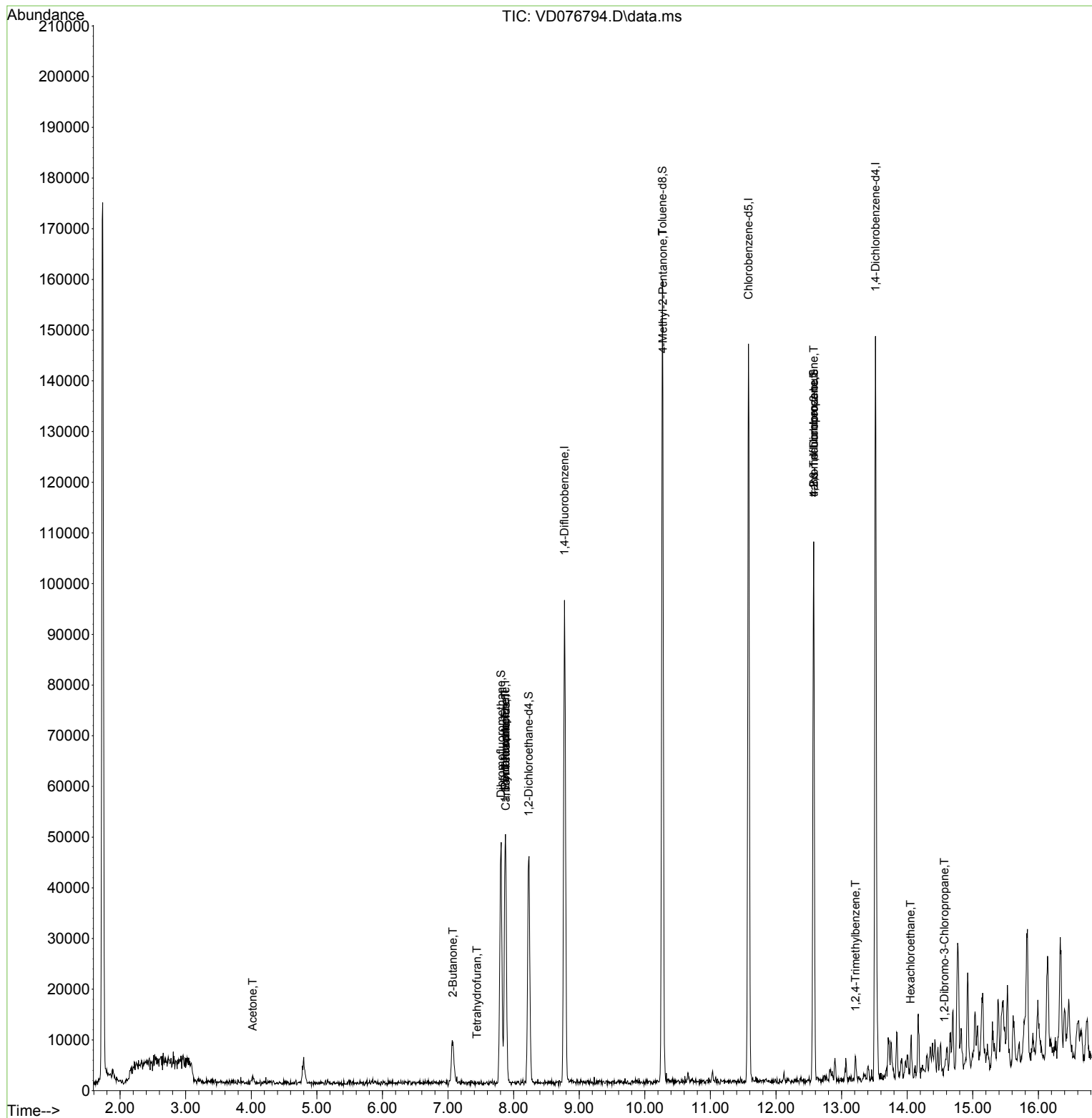
Internal Standards						
1) Pentafluorobenzene	7.875	168	39362	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	86778	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	85951	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	38858	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	36445	92.958	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 185.920%#			
35) Dibromofluoromethane	7.810	113	32677	59.923	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 119.840%			
50) Toluene-d8	10.269	98	109197	55.975	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 111.960%			
62) 4-Bromofluorobenzene	12.575	95	32687	51.795	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.580%			
Target Compounds						
16) Acetone	4.022	43	1845	19.705	ug/l #	67
20) Methylene Chloride	4.799	84	3379	Below Cal		96
25) 2-Butanone	7.075	43	240	1.915	ug/l #	37
29) Tetrahydrofuran	7.440	42	132	1.783	ug/l #	23
31) Cyclohexane	7.875	56	949	1.645	ug/l #	80
36) 1,1-Dichloropropene	7.869	75	3226	4.527	ug/l #	39
38) Carbon Tetrachloride	7.881	117	3761	5.512	ug/l #	11
51) 4-Methyl-2-Pentanone	10.275	43	371	1.120	ug/l #	1
76) 1,2,3-Trichloropropane	12.575	75	17075	46.207	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	17075	98.340	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.210	105	3365	1.445	ug/l	93
90) Hexachloroethane	14.051	117	563	1.202	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.569	75	184	2.132	ug/l #	1

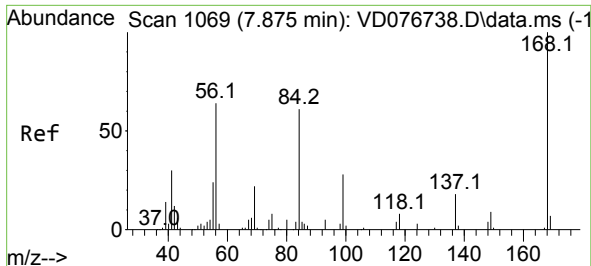
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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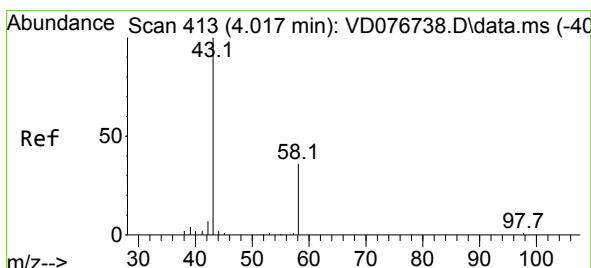
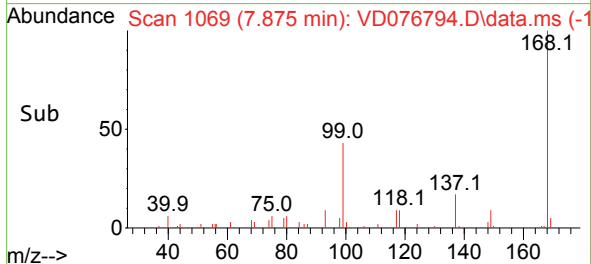
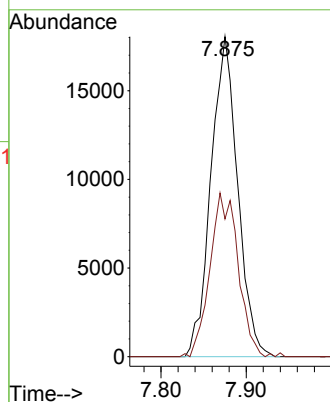
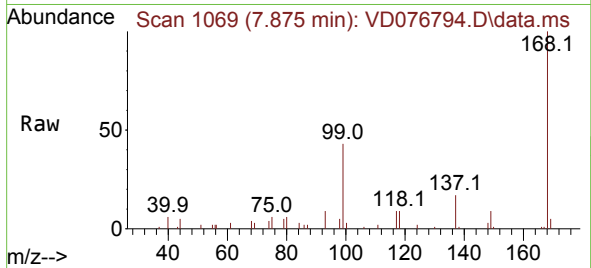




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD076794.D
Acq: 19 Jul 2023 16:50

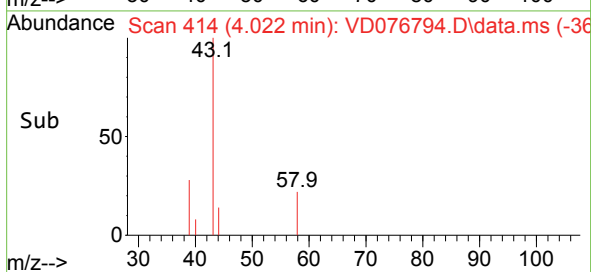
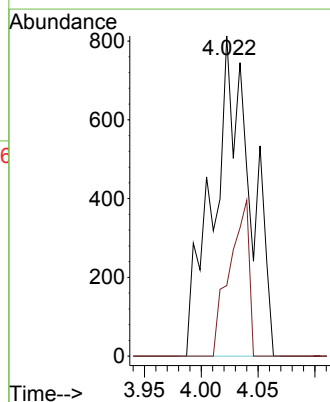
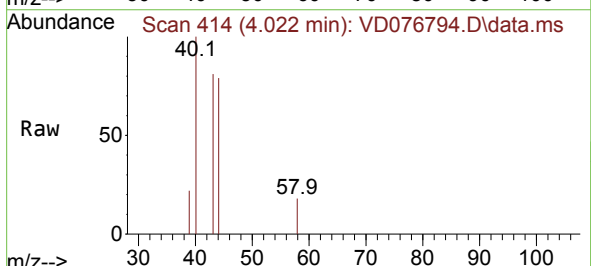
Instrument :
MSVOA_D
ClientSampleId :
HR-3-071823

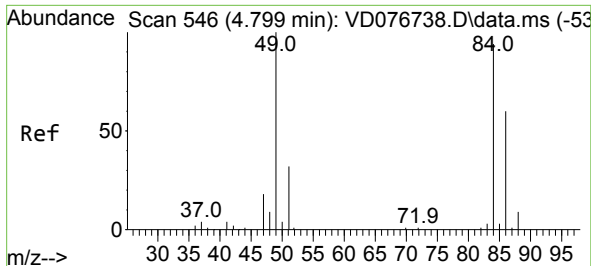
Tgt Ion:168 Resp: 39362
Ion Ratio Lower Upper
168 100
99 43.1 36.7 55.1



#16
Acetone
Concen: 19.705 ug/l
RT: 4.022 min Scan# 414
Delta R.T. 0.005 min
Lab File: VD076794.D
Acq: 19 Jul 2023 16:50

Tgt Ion: 43 Resp: 1845
Ion Ratio Lower Upper
43 100
58 22.0 34.7 52.1#



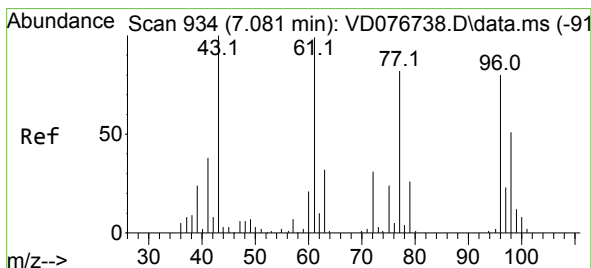
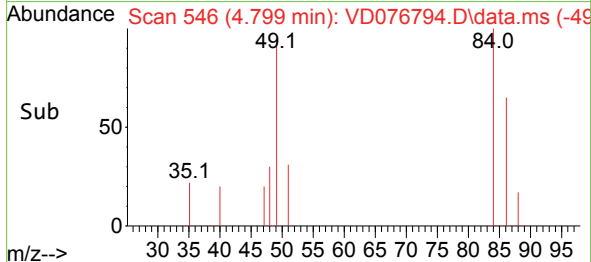
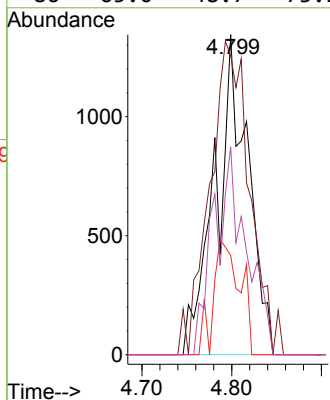
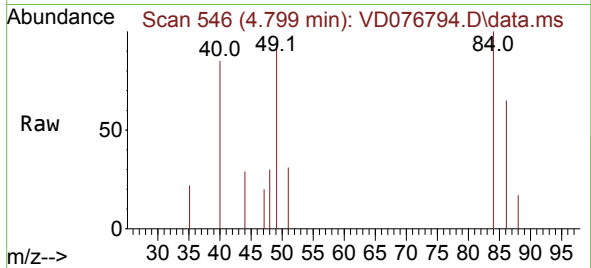


#20
Methylene Chloride
Concen: Below Cal
RT: 4.799 min Scan# 546
Delta R.T. -0.000 min
Lab File: VD076794.D
Acq: 19 Jul 2023 16:50

Instrument :
MSVOA_D
ClientSampleId :
HR-3-071823

Tgt Ion: 84 Resp: 3379

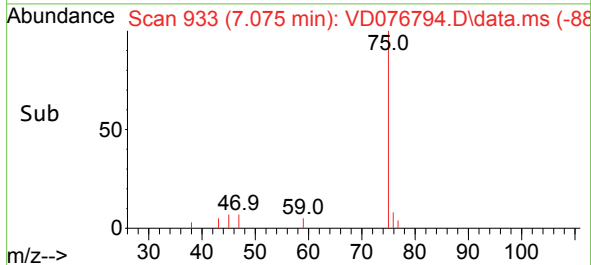
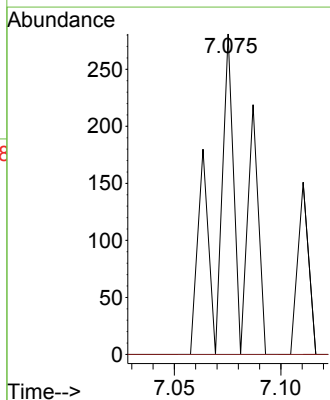
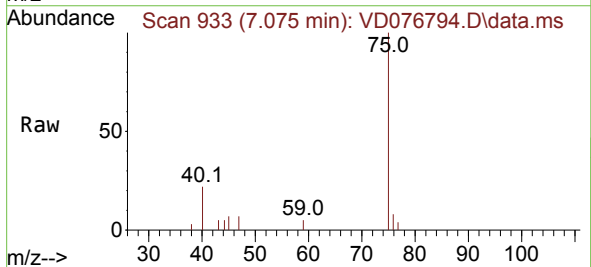
Ion	Ratio	Lower	Upper
84	100		
49	93.5	71.4	107.2
51	31.0	24.5	36.7
86	65.0	48.7	73.1

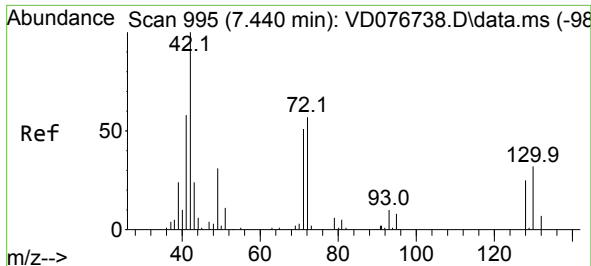


#25
2-Butanone
Concen: 1.915 ug/l
RT: 7.075 min Scan# 933
Delta R.T. -0.006 min
Lab File: VD076794.D
Acq: 19 Jul 2023 16:50

Tgt Ion: 43 Resp: 240

Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.7	46.1#





#29

Tetrahydrofuran

Concen: 1.783 ug/l

RT: 7.440 min Scan# 995

Delta R.T. -0.000 min

Lab File: VD076794.D

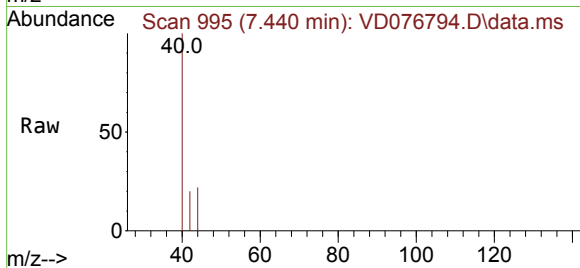
Acq: 19 Jul 2023 16:50

Instrument :

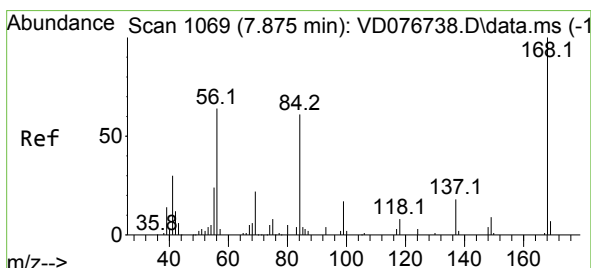
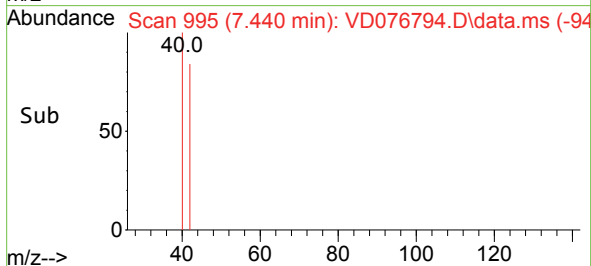
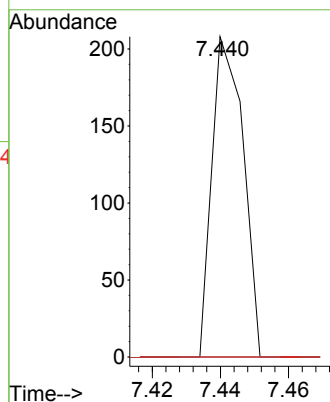
MSVOA_D

ClientSampleId :

HR-3-071823



Tgt Ion:	42	Resp:	132
Ion	Ratio	Lower	Upper
42	100		
72	0.0	46.5	69.7#
71	0.0	44.5	66.7#



#31

Cyclohexane

Concen: 1.645 ug/l

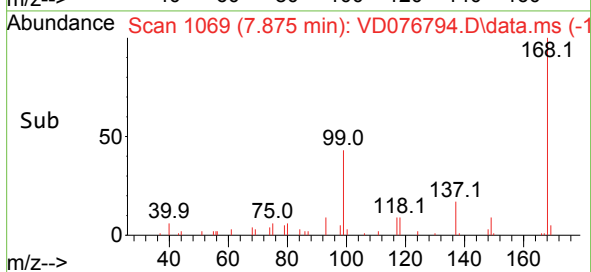
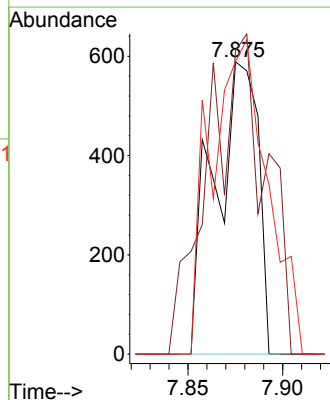
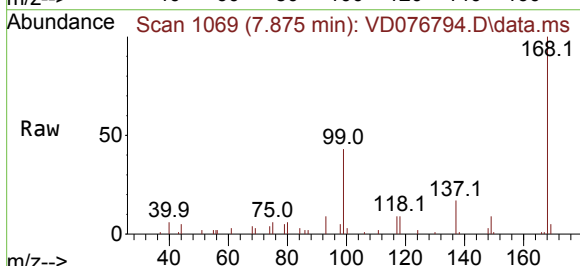
RT: 7.875 min Scan# 1069

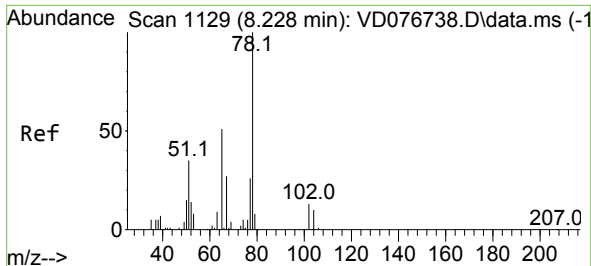
Delta R.T. 0.000 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

Tgt Ion:	56	Resp:	949
Ion	Ratio	Lower	Upper
56	100		
69	72.2	28.6	43.0#
84	100.2	84.8	127.2





#33

1,2-Dichloroethane-d4

Concen: 92.958 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

Instrument :

MSVOA_D

ClientSampleId :

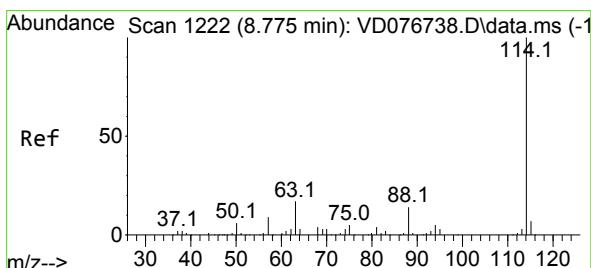
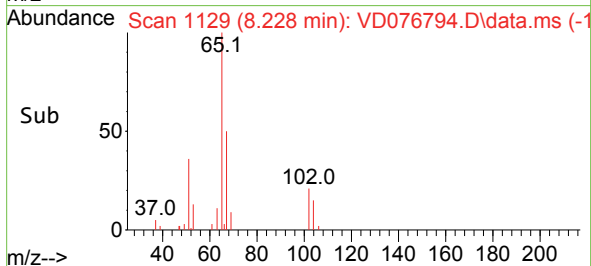
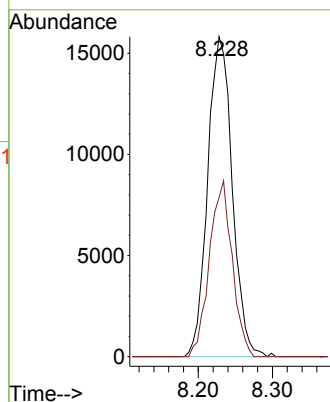
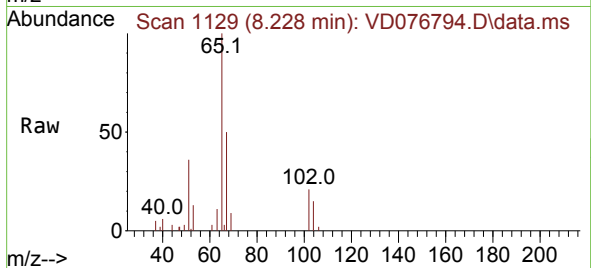
HR-3-071823

Tgt Ion: 65 Resp: 36445

Ion Ratio Lower Upper

65 100

67 50.8 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

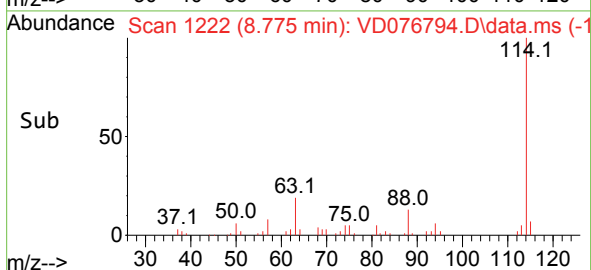
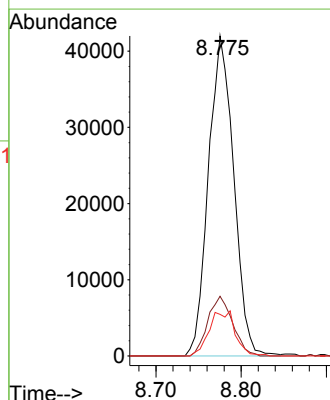
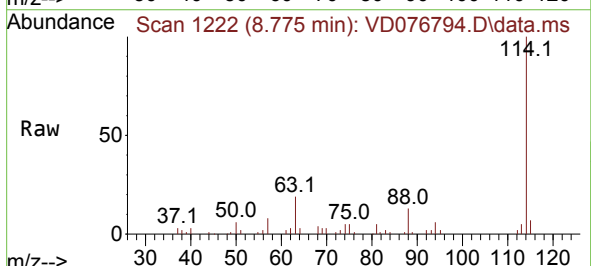
Tgt Ion: 114 Resp: 86778

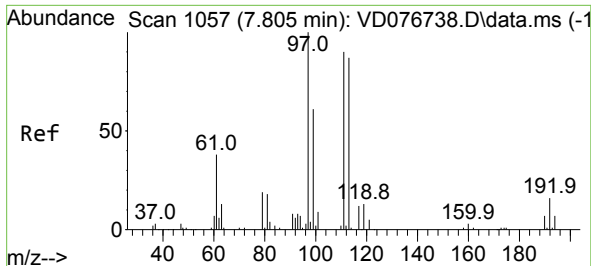
Ion Ratio Lower Upper

114 100

63 18.7 0.0 33.4

88 13.0 0.0 26.2





#35

Dibromofluoromethane

Concen: 59.923 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.005 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

Instrument :

MSVOA_D

ClientSampleId :

HR-3-071823

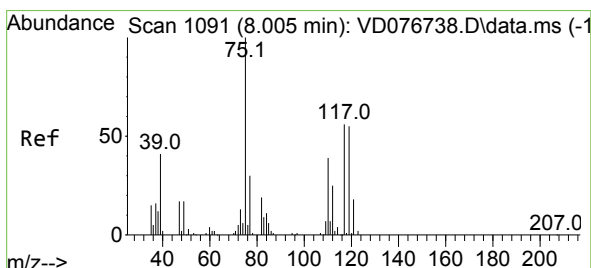
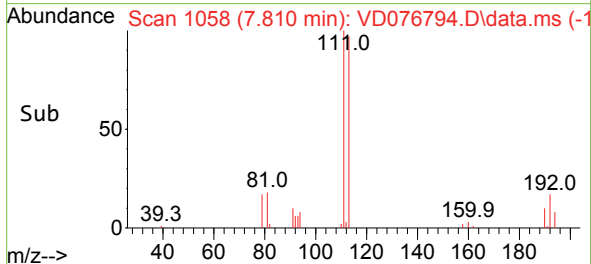
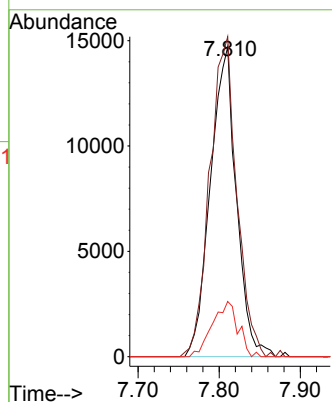
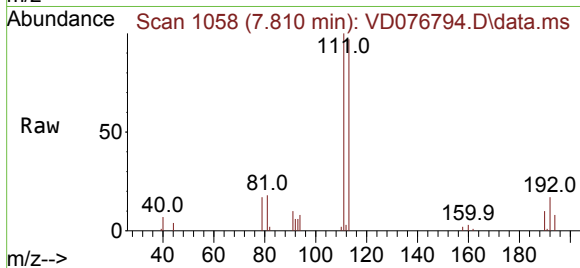
Tgt Ion:113 Resp: 32677

Ion Ratio Lower Upper

113 100

111 107.3 84.7 127.1

192 17.7 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.527 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.136 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

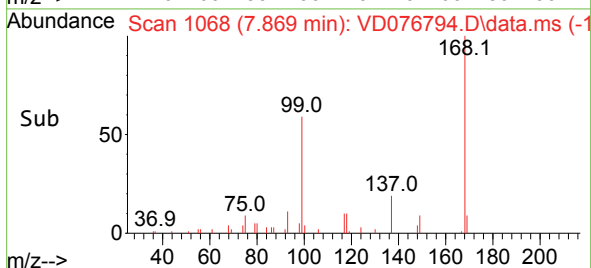
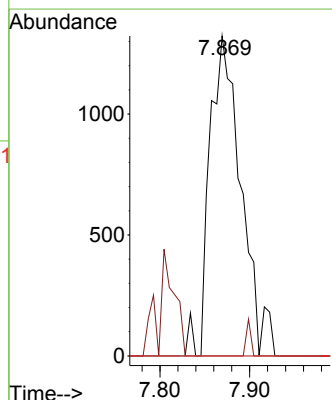
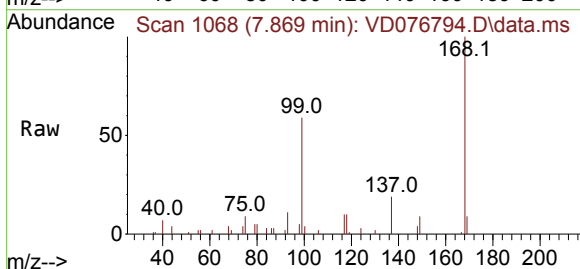
Tgt Ion: 75 Resp: 3226

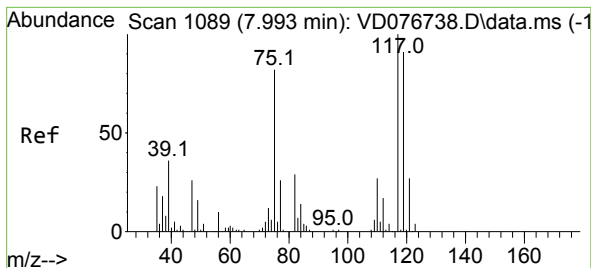
Ion Ratio Lower Upper

75 100

110 0.0 19.9 59.6#

77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.512 ug/l

RT: 7.881 min Scan# 1089

Delta R.T. -0.112 min

Lab File: VD076794.D

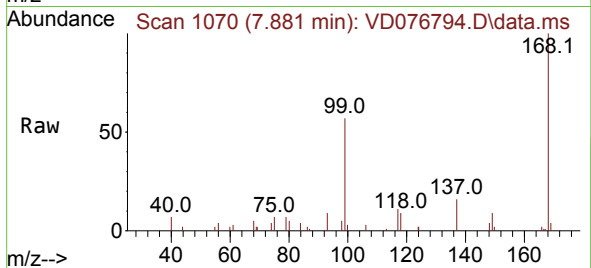
Acq: 19 Jul 2023 16:50

Instrument :

MSVOA_D

ClientSampleId :

HR-3-071823



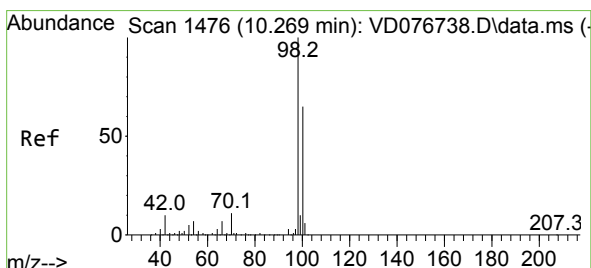
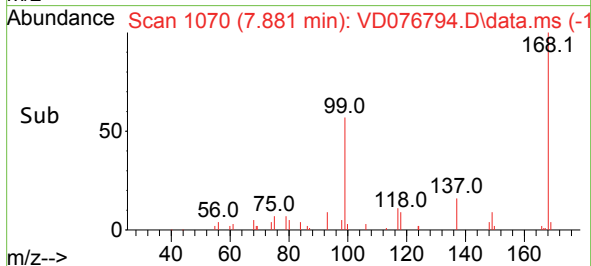
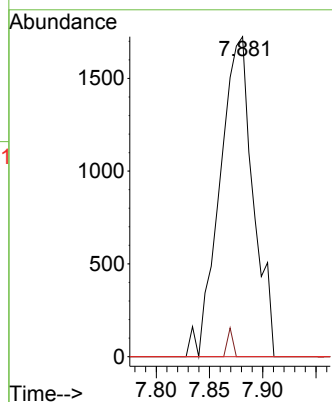
Tgt Ion:117 Resp: 3761

Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 55.975 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD076794.D

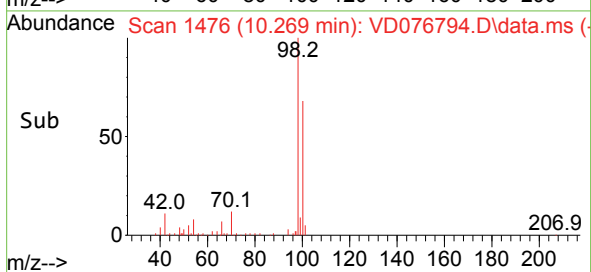
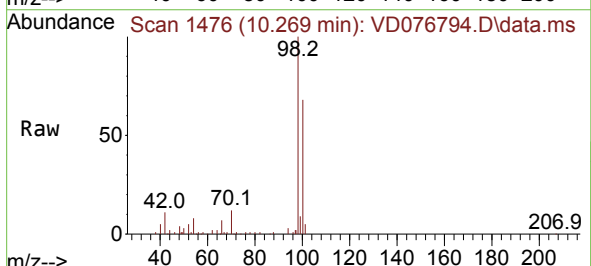
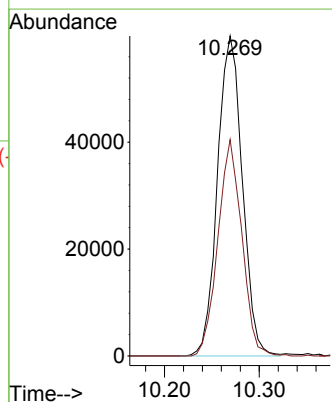
Acq: 19 Jul 2023 16:50

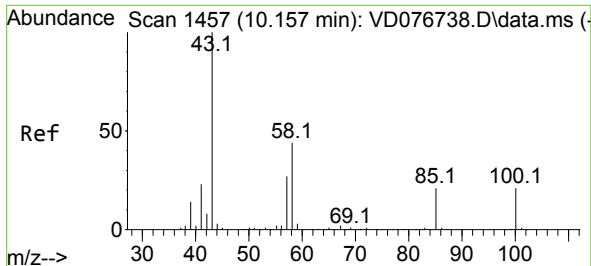
Tgt Ion: 98 Resp: 109197

Ion Ratio Lower Upper

98 100

100 65.1 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.120 ug/l

RT: 10.275 min Scan# 1457

Delta R.T. 0.118 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

Instrument :

MSVOA_D

ClientSampleId :

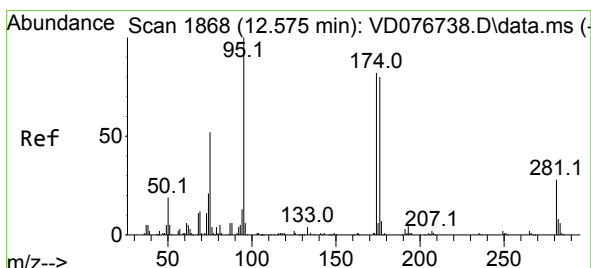
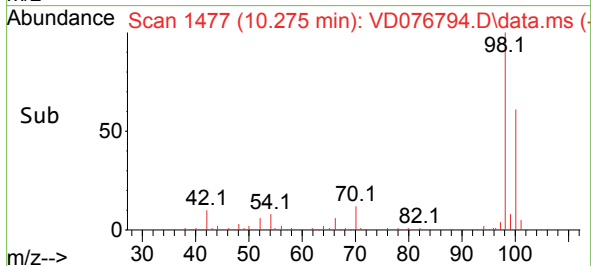
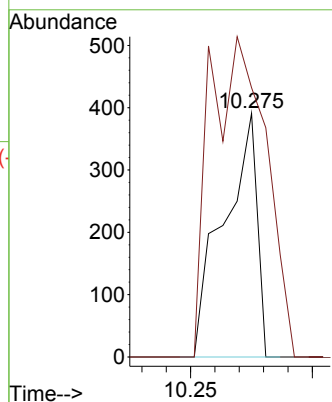
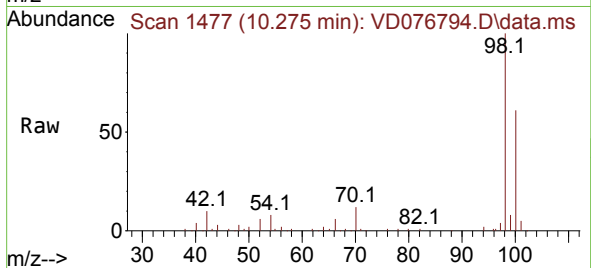
HR-3-071823

Tgt Ion: 43 Resp: 371

Ion Ratio Lower Upper

43 100

58 221.0 38.9 58.3#



#62

4-Bromofluorobenzene

Concen: 51.795 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

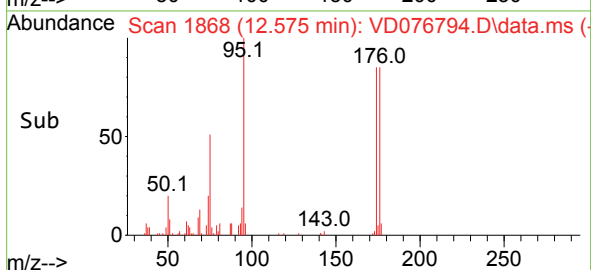
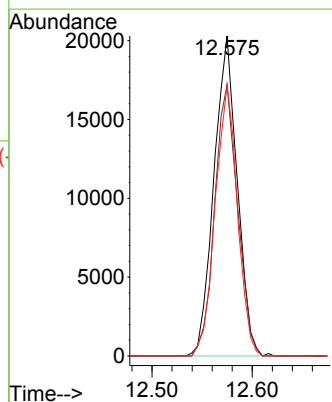
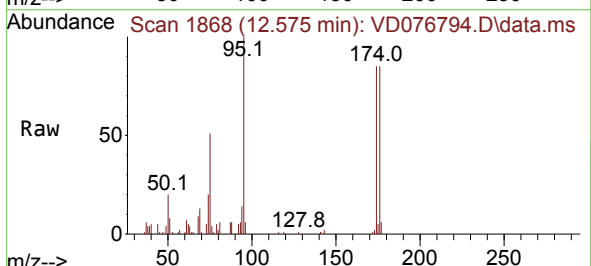
Tgt Ion: 95 Resp: 32687

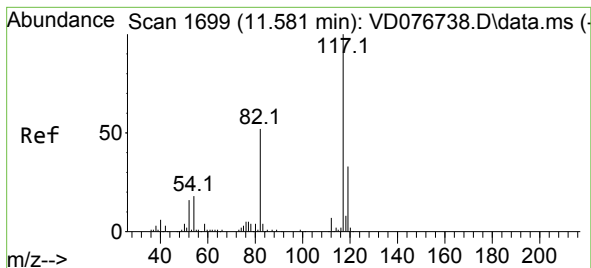
Ion Ratio Lower Upper

95 100

174 83.8 0.0 201.8

176 80.8 0.0 191.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

Instrument :

MSVOA_D

ClientSampleId :

HR-3-071823

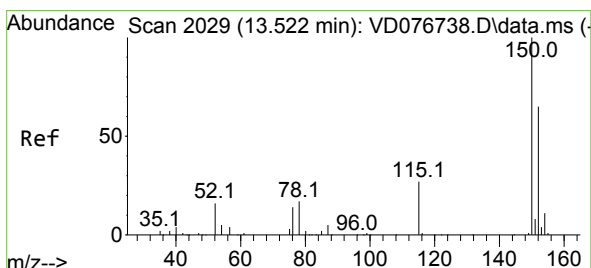
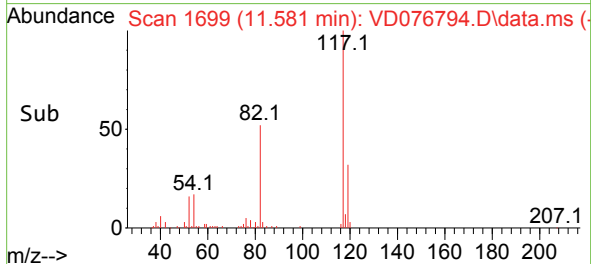
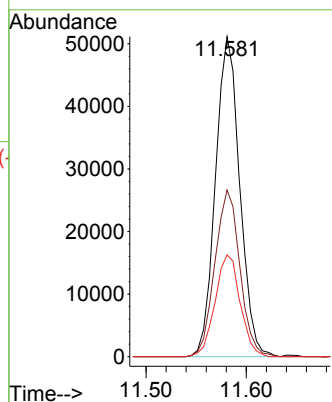
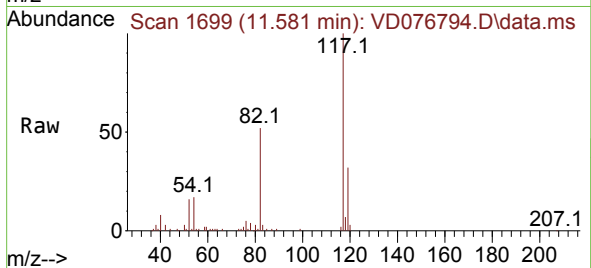
Tgt Ion:117 Resp: 85951

Ion Ratio Lower Upper

117 100

82 52.1 38.3 57.5

119 31.8 25.0 37.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.006 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

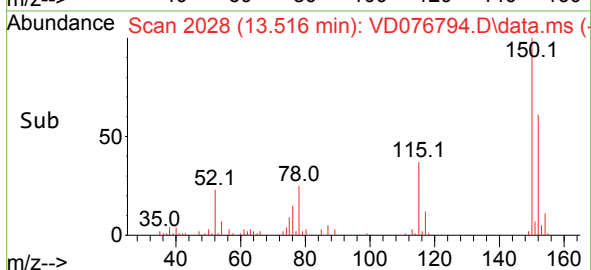
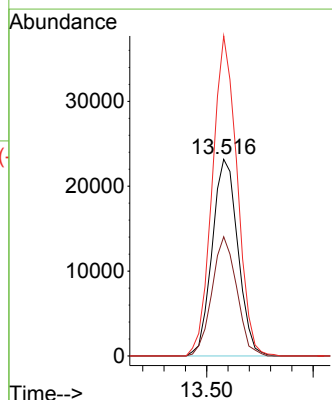
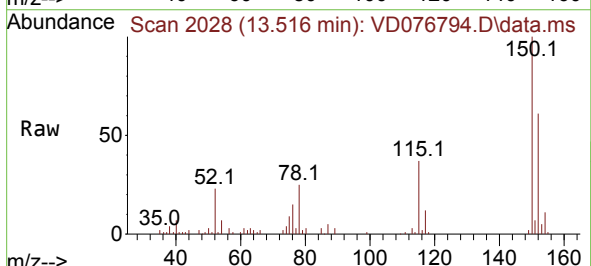
Tgt Ion:152 Resp: 38858

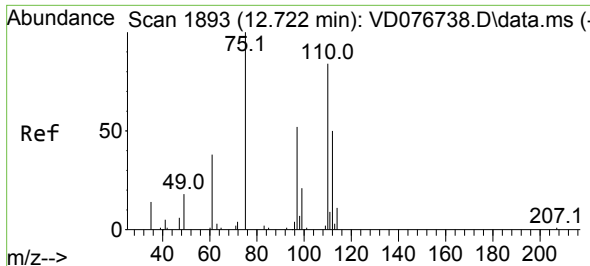
Ion Ratio Lower Upper

152 100

115 58.4 27.1 81.3

150 156.8 0.0 353.6

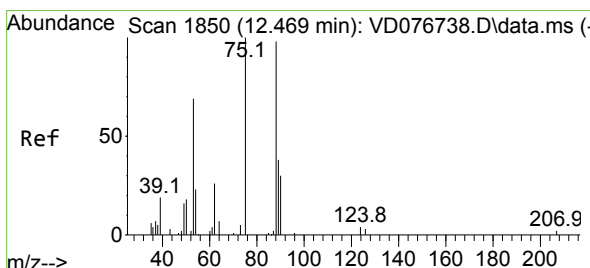
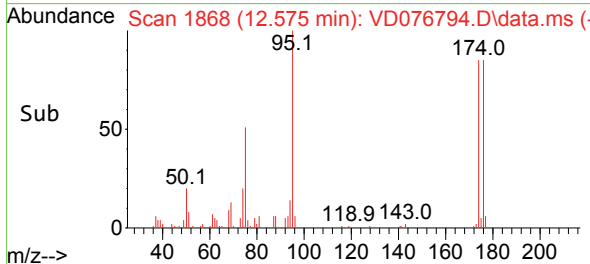
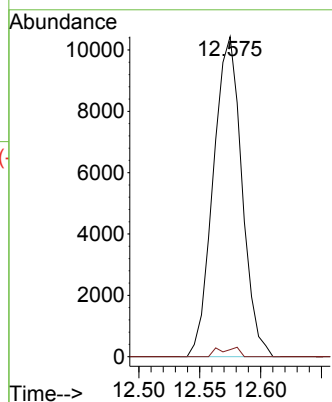
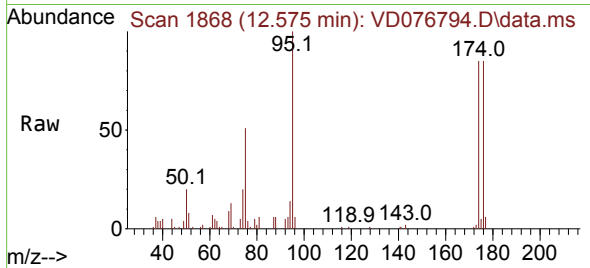




#76
1,2,3-Trichloropropane
Concen: 46.207 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD076794.D
Acq: 19 Jul 2023 16:50

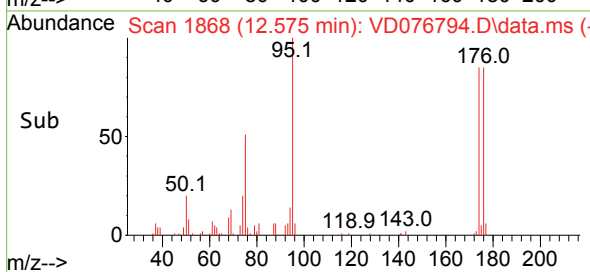
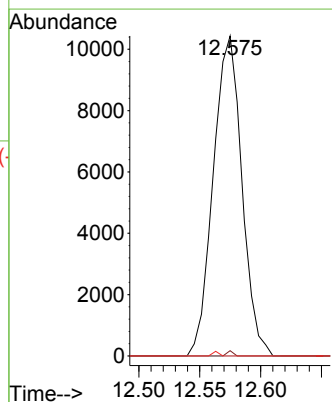
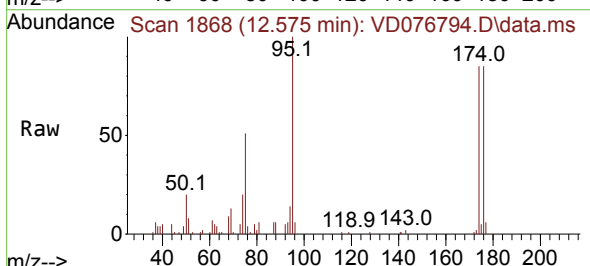
Instrument :
MSVOA_D
ClientSampleId :
HR-3-071823

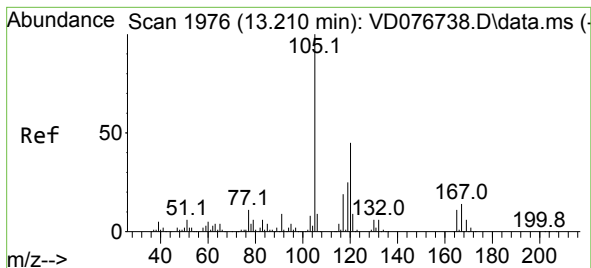
Tgt Ion: 75 Resp: 17075
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 98.340 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD076794.D
Acq: 19 Jul 2023 16:50

Tgt Ion: 75 Resp: 17075
Ion Ratio Lower Upper
75 100
53 0.4 63.0 94.4#
89 0.3 37.9 56.9#





#84

1,2,4-Trimethylbenzene

Concen: 1.445 ug/l

RT: 13.210 min Scan# 1976

Delta R.T. 0.000 min

Lab File: VD076794.D

Acq: 19 Jul 2023 16:50

Instrument :

MSVOA_D

ClientSampleId :

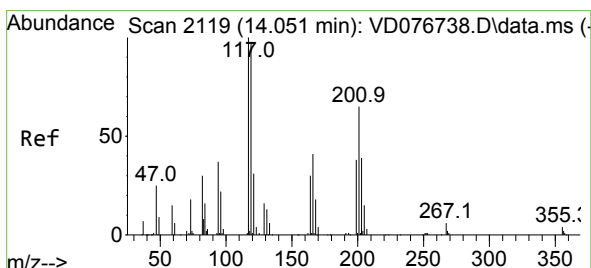
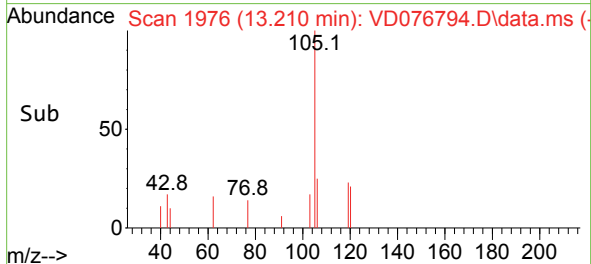
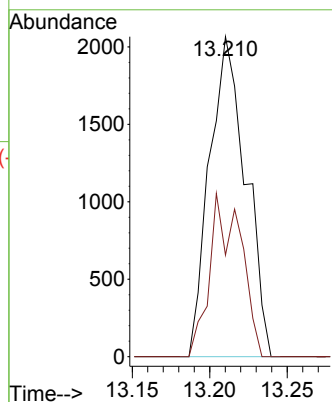
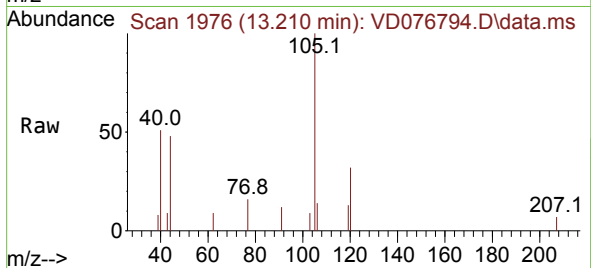
HR-3-071823

Tgt Ion:105 Resp: 3365

Ion Ratio Lower Upper

105 100

120 43.6 24.3 72.9



#90

Hexachloroethane

Concen: 1.202 ug/l

RT: 14.051 min Scan# 2119

Delta R.T. 0.000 min

Lab File: VD076794.D

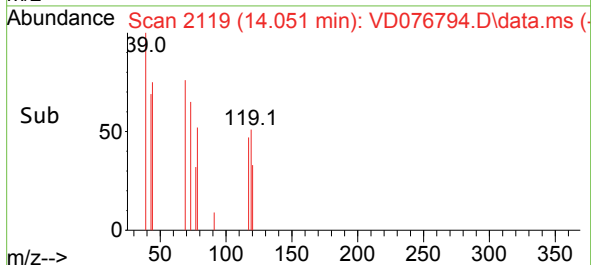
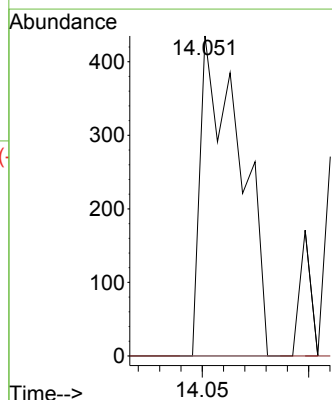
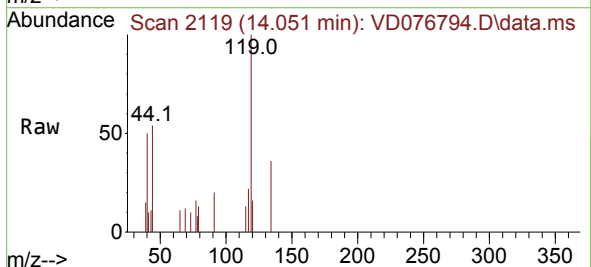
Acq: 19 Jul 2023 16:50

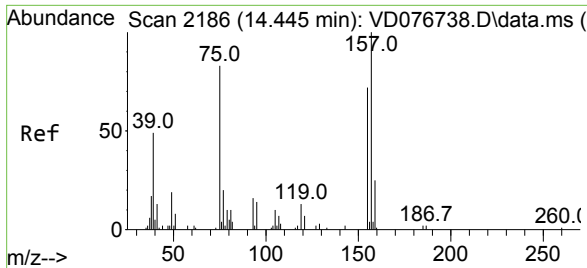
Tgt Ion:117 Resp: 563

Ion Ratio Lower Upper

117 100

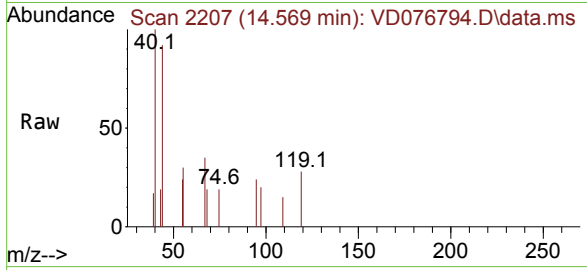
201 0.0 38.5 115.5#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.132 ug/l
 RT: 14.569 min Scan# 21
 Delta R.T. 0.124 min
 Lab File: VD076794.D
 Acq: 19 Jul 2023 16:50

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-3-071823



Tgt Ion:	75	Resp:	184
Ion Ratio	Lower	Upper	
75	100		
155	0.0	47.9	143.8#
157	0.0	59.9	179.7#

