

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD072623\
 Data File : VD076820.D
 Acq On : 26 Jul 2023 22:00
 Operator : KP/SY
 Sample : 03775-01
 Misc : 5.40G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 27 04:28:24 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)

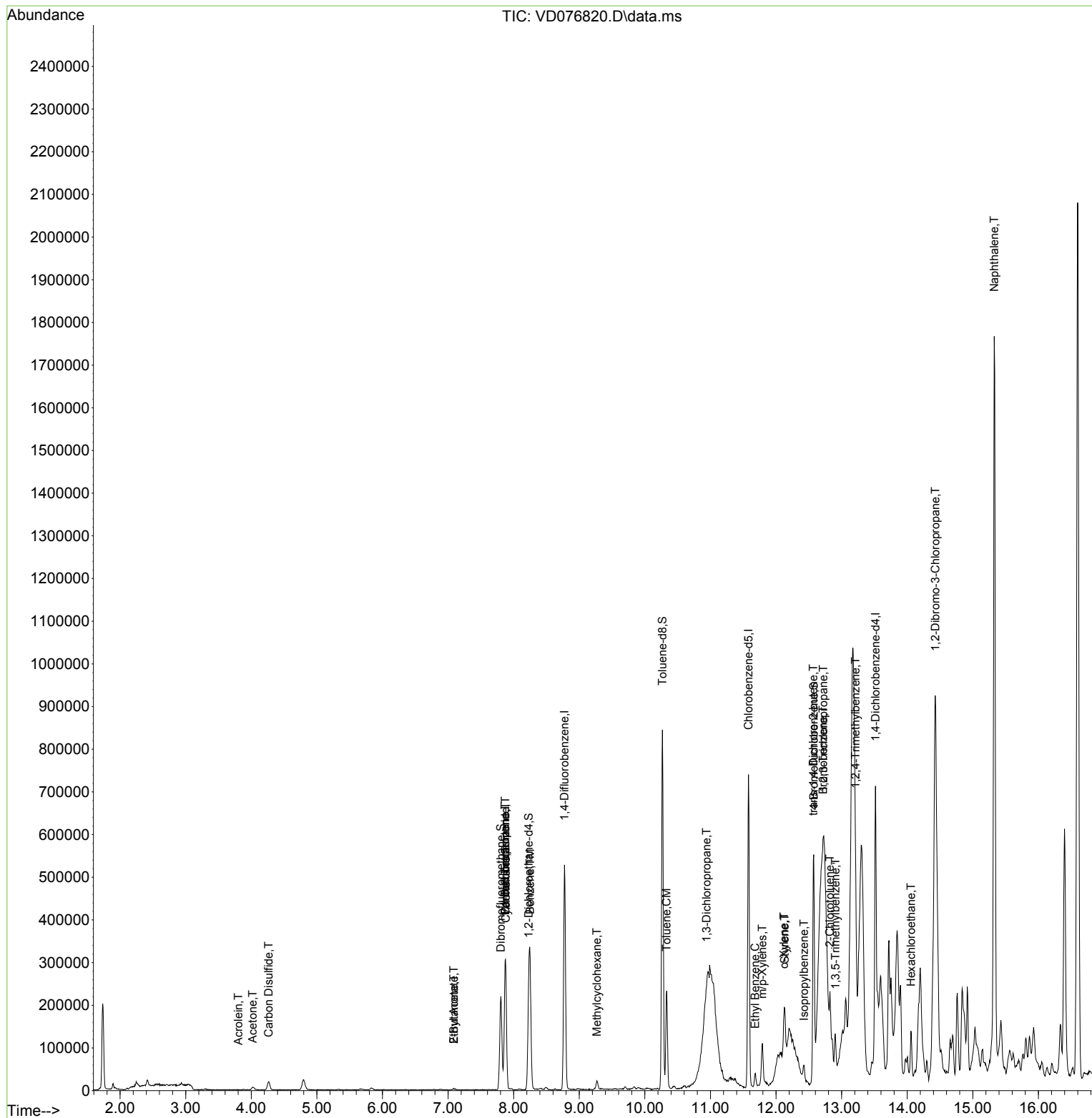
Internal Standards						
1) Pentafluorobenzene	7.875	168	244703	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	499065	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.580	117	446574	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	182959	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	126231	51.791	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.580%	
35) Dibromofluoromethane	7.804	113	162332	51.761	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.520%	
50) Toluene-d8	10.269	98	598139	53.314	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 106.620%	
62) 4-Bromofluorobenzene	12.574	95	170388	46.946	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 93.900%	
Target Compounds						Qvalue
13) Acrolein	3.804	56	425	3.429	ug/l #	33
16) Acetone	4.022	43	11197	19.236	ug/l	98
17) Carbon Disulfide	4.263	76	40409	7.155	ug/l	98
20) Methylene Chloride	4.793	84	20575	Below Cal	#	91
25) 2-Butanone	7.086	43	3433	4.407	ug/l	88
31) Cyclohexane	7.881	56	6503	1.813	ug/l #	31
36) 1,1-Dichloropropene	7.869	75	18829	4.595	ug/l #	48
37) Ethyl Acetate	7.086	43	3433	1.873	ug/l #	62
38) Carbon Tetrachloride	7.875	117	24781	6.315	ug/l #	16
39) Methylcyclohexane	9.269	83	8725	1.844	ug/l	89
40) Benzene	8.251	78	274805	21.252	ug/l	100
52) Toluene	10.328	92	105267	12.395	ug/l	92
57) 1,3-Dichloropropane	10.939	76	57298	12.332	ug/l #	42
67) Ethyl Benzene	11.680	91	23814	1.510	ug/l	96
68) m/p-Xylenes	11.792	106	31900	5.266	ug/l	97
69) o-Xylene	12.122	106	20474	3.495	ug/l	100
70) Styrene	12.133	104	47351	4.617	ug/l	95
73) Isopropylbenzene	12.427	105	14329	1.079	ug/l	95
76) 1,2,3-Trichloropropane	12.721	75	20006	11.498	ug/l #	100
77) Bromobenzene	12.716	156	966432	315.418	ug/l #	1
79) 2-Chlorotoluene	12.821	91	10975	1.244	ug/l #	65
80) 1,3,5-Trimethylbenzene	12.904	105	47587	4.434	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.569	75	90989	111.297	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.210	105	50557	4.609	ug/l	100
90) Hexachloroethane	14.057	117	6688	3.034	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.427	75	77091	189.709	ug/l #	1
95) Naphthalene	15.327	128	1630557	222.127	ug/l	100

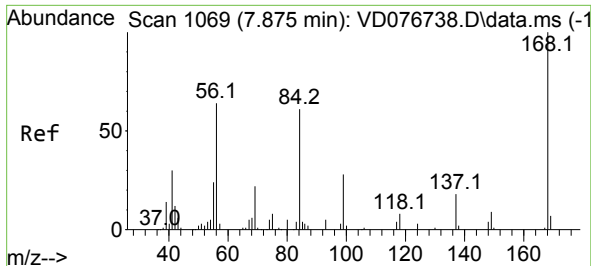
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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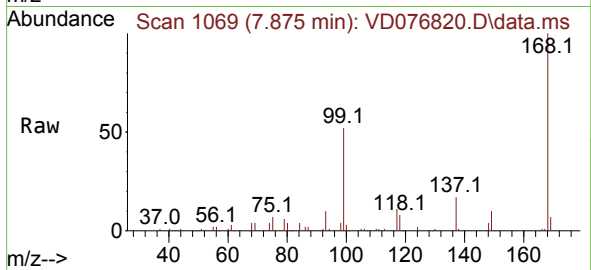
Quant Time: Jul 27 04:28:24 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071423S.M
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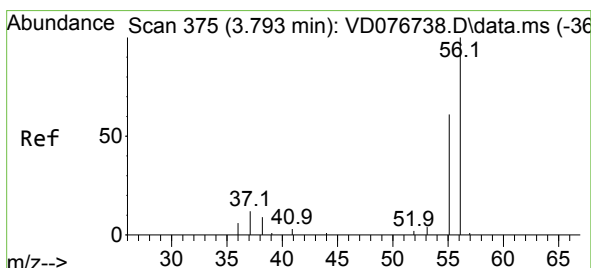
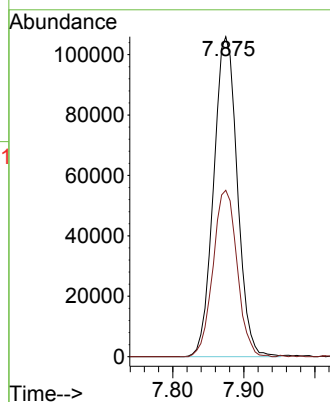
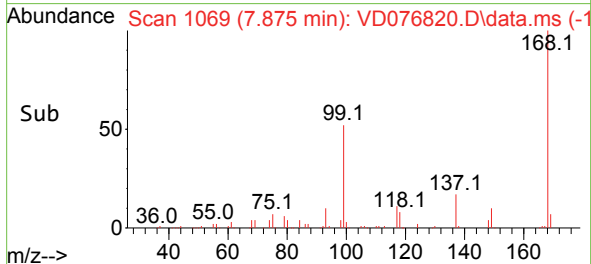


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Instrument :
MSVOA_D
ClientSampleId :

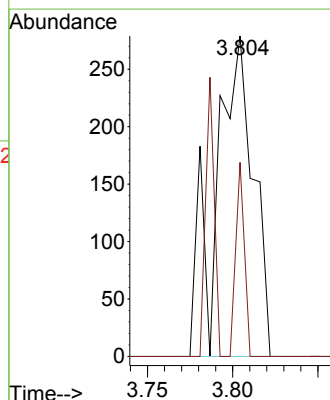
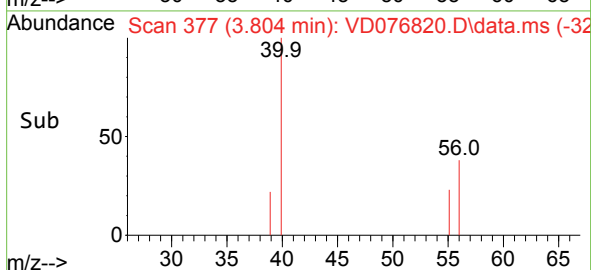
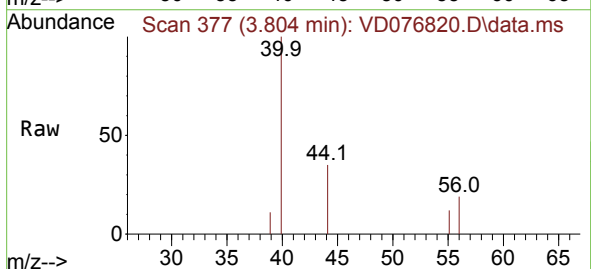


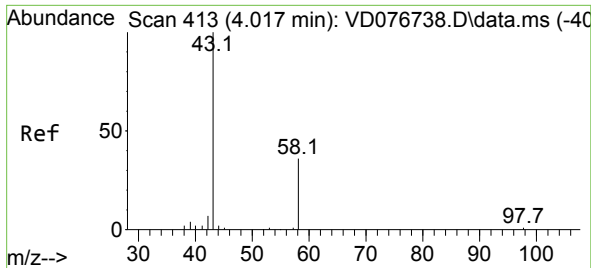
Tgt Ion:168 Resp: 244703
Ion Ratio Lower Upper
168 100
99 52.0 36.7 55.1



#13
Acrolein
Concen: 3.429 ug/l
RT: 3.804 min Scan# 377
Delta R.T. 0.011 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Tgt Ion: 56 Resp: 425
Ion Ratio Lower Upper
56 100
55 14.1 55.1 82.7#

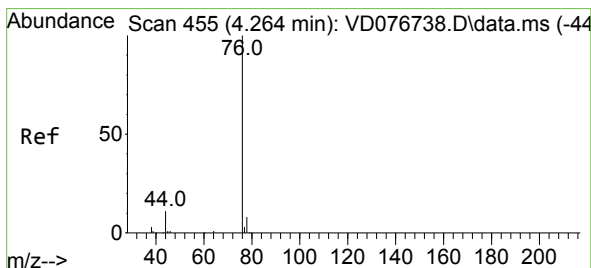
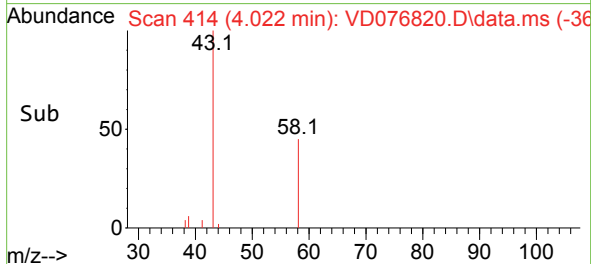
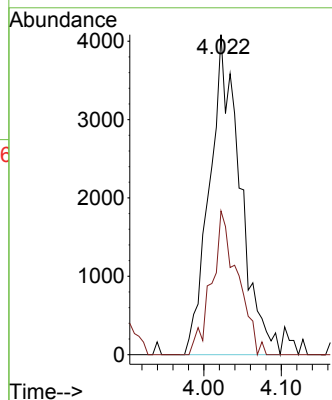
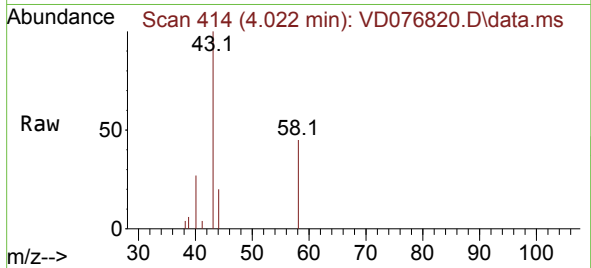




#16
Acetone
Concen: 19.236 ug/l
RT: 4.022 min Scan# 413
Delta R.T. 0.005 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

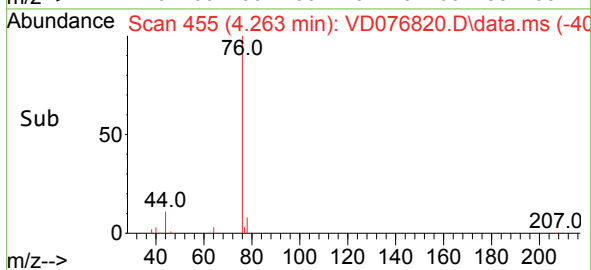
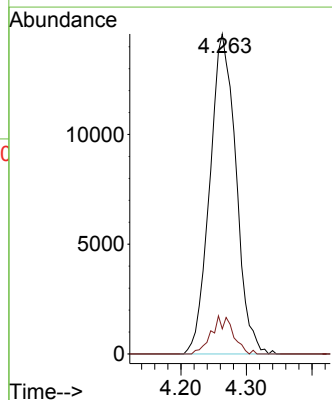
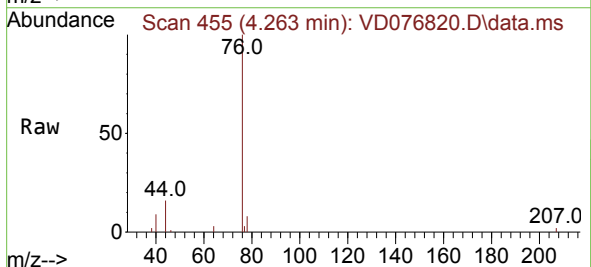
Instrument :
MSVOA_D
ClientSampleId :

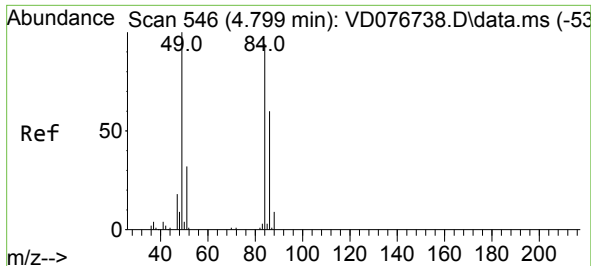
Tgt Ion: 43 Resp: 11197
Ion Ratio Lower Upper
43 100
58 44.9 34.7 52.1



#17
Carbon Disulfide
Concen: 7.155 ug/l
RT: 4.263 min Scan# 455
Delta R.T. -0.001 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

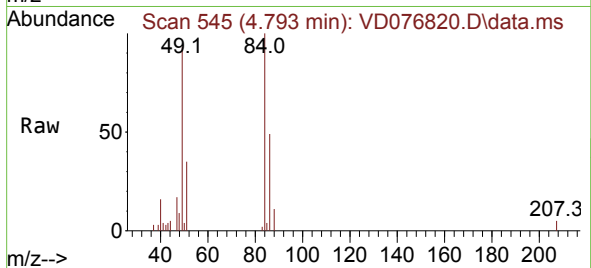
Tgt Ion: 76 Resp: 40409
Ion Ratio Lower Upper
76 100
78 7.9 6.8 10.2



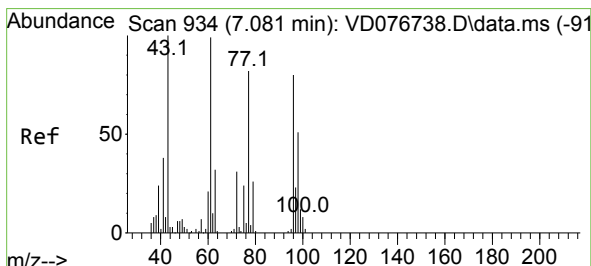
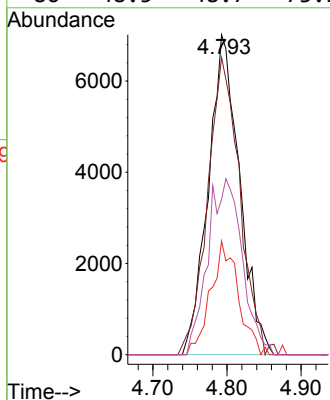
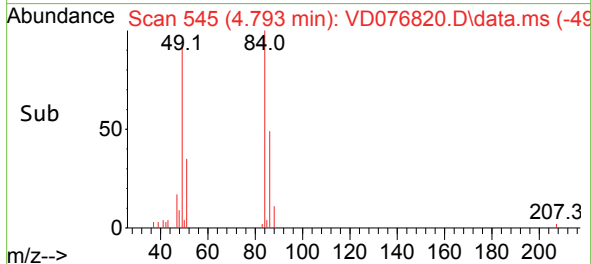


#20
Methylene Chloride
Concen: Below Cal
RT: 4.793 min Scan# 546
Delta R.T. -0.006 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Instrument :
MSVOA_D
ClientSampleId :

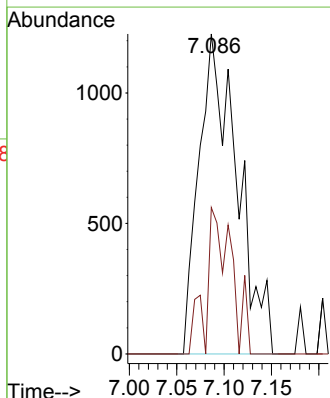
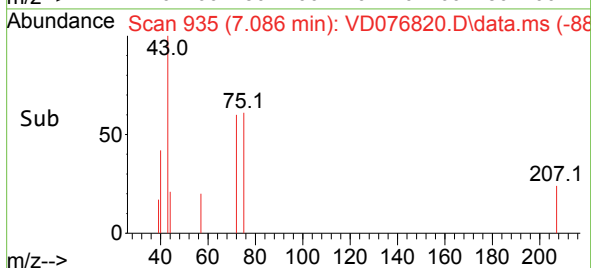
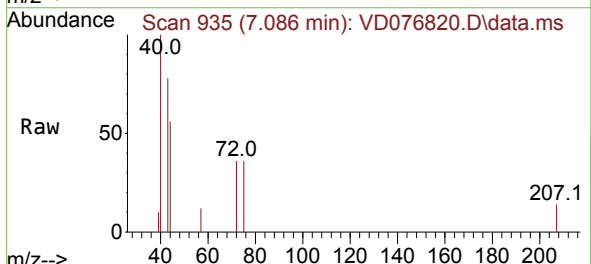


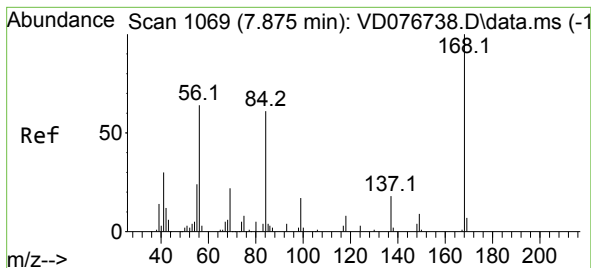
Tgt Ion: 84 Resp: 20575
Ion Ratio Lower Upper
84 100
49 92.8 71.4 107.2
51 35.5 24.5 36.7
86 48.5 48.7 73.1#



#25
2-Butanone
Concen: 4.407 ug/l
RT: 7.086 min Scan# 935
Delta R.T. 0.005 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Tgt Ion: 43 Resp: 3433
Ion Ratio Lower Upper
43 100
72 45.8 30.7 46.1





#31

Cyclohexane

Concen: 1.813 ug/l

RT: 7.881 min Scan# 1069

Delta R.T. 0.006 min

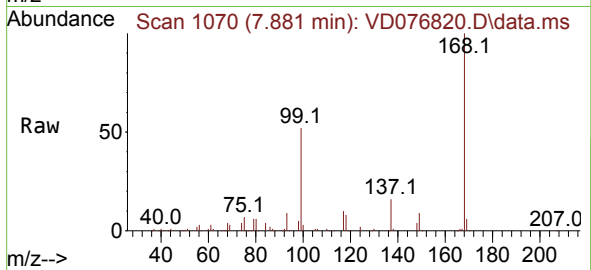
Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

Instrument :

MSVOA_D

ClientSampleId :



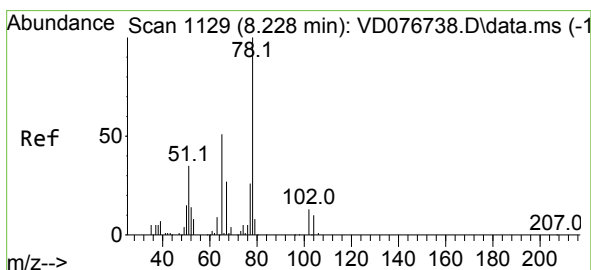
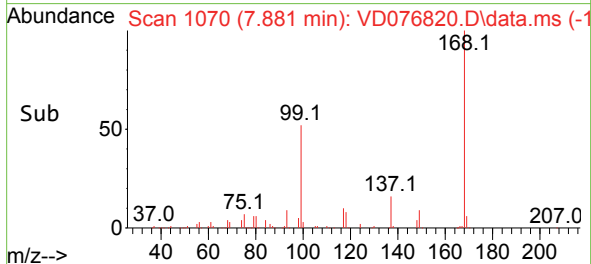
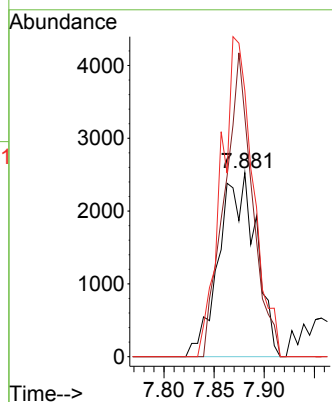
Tgt Ion: 56 Resp: 6503

Ion Ratio Lower Upper

56 100

69 130.4 28.6 43.0#

84 144.5 84.8 127.2#



#33

1,2-Dichloroethane-d4

Concen: 51.791 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD076820.D

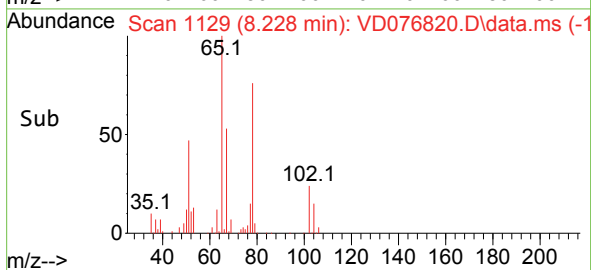
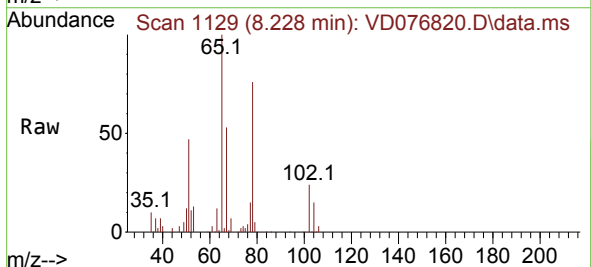
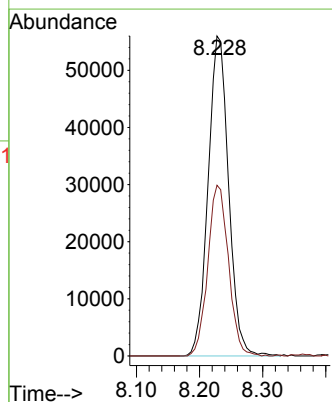
Acq: 26 Jul 2023 22:00

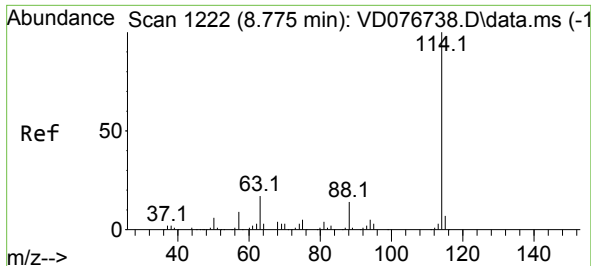
Tgt Ion: 65 Resp: 126231

Ion Ratio Lower Upper

65 100

67 53.9 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.000 min

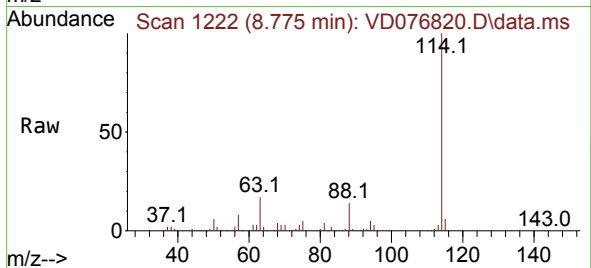
Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

Instrument :

MSVOA_D

ClientSampleId :



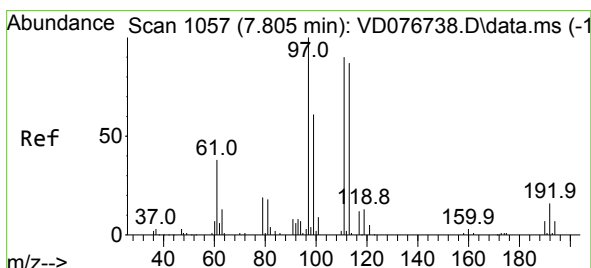
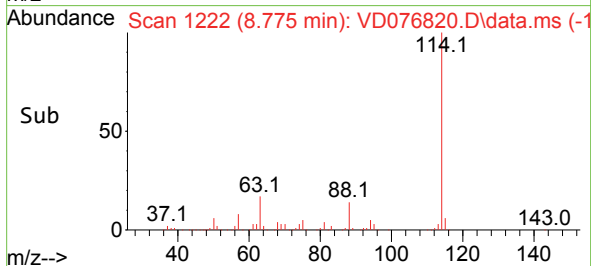
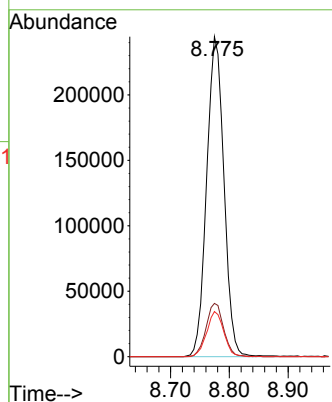
Tgt Ion:114 Resp: 499065

Ion Ratio Lower Upper

114 100

63 16.7 0.0 33.4

88 14.1 0.0 26.2



#35

Dibromofluoromethane

Concen: 51.761 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.001 min

Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

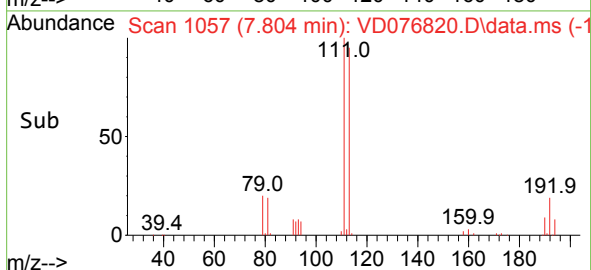
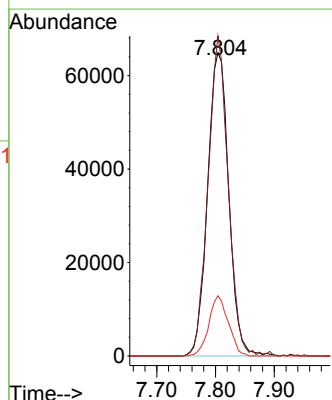
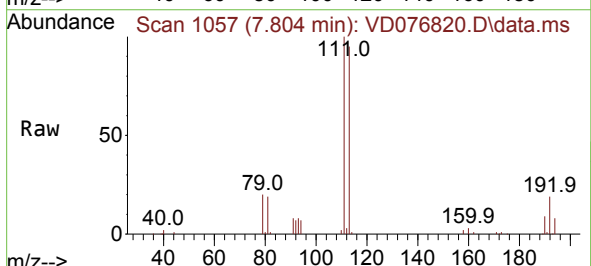
Tgt Ion:113 Resp: 162332

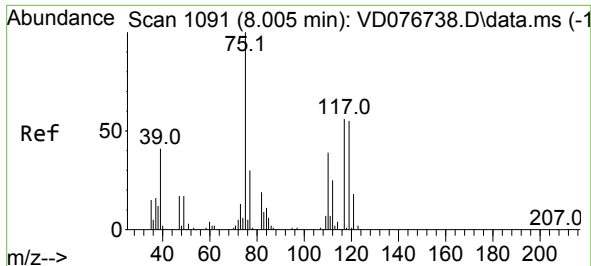
Ion Ratio Lower Upper

113 100

111 100.4 84.7 127.1

192 18.3 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.595 ug/l

RT: 7.869 min Scan# 1091

Delta R.T. -0.136 min

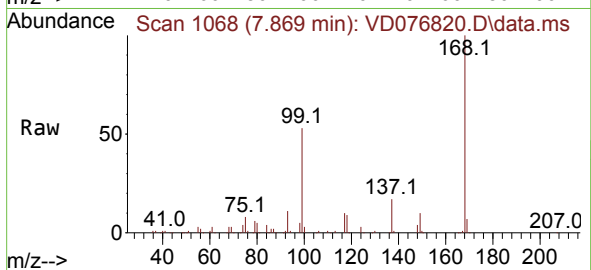
Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

Instrument :

MSVOA_D

ClientSampleId :



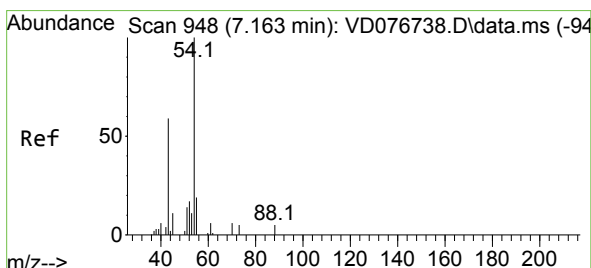
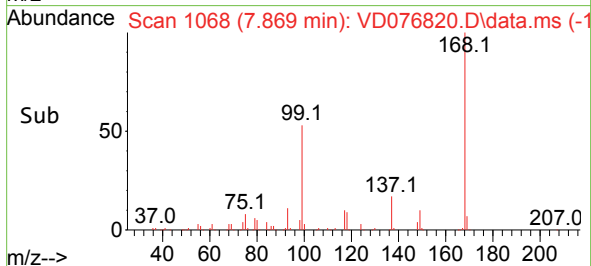
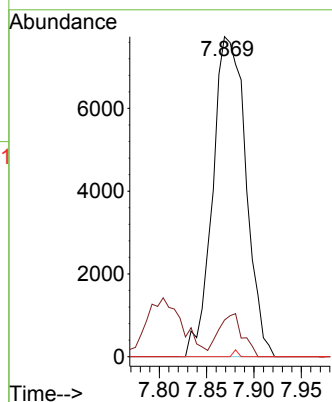
Tgt Ion: 75 Resp: 18829

Ion Ratio Lower Upper

75 100

110 9.6 19.9 59.6#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 1.873 ug/l

RT: 7.086 min Scan# 935

Delta R.T. -0.077 min

Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

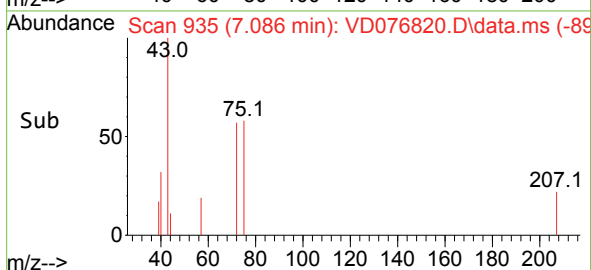
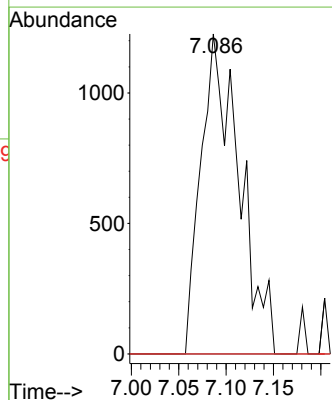
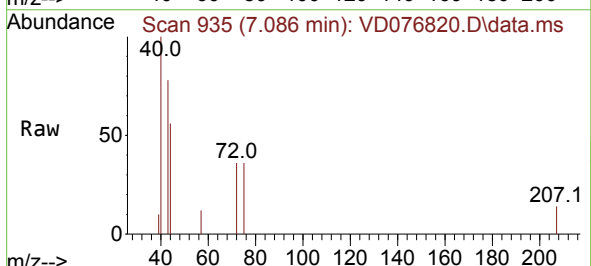
Tgt Ion: 43 Resp: 3433

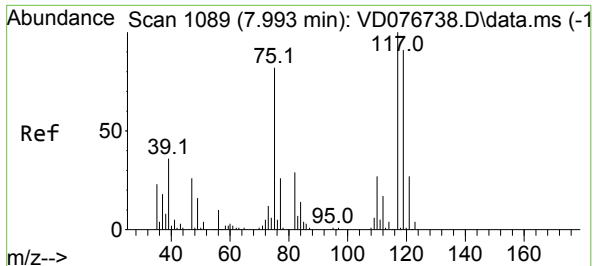
Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

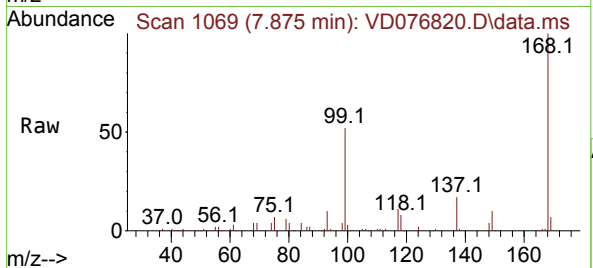
70 0.0 10.0 15.0#



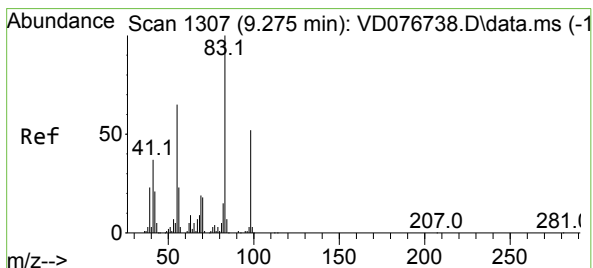
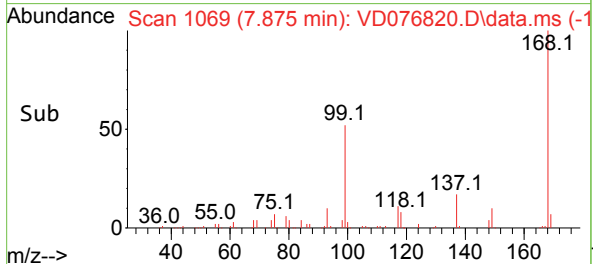
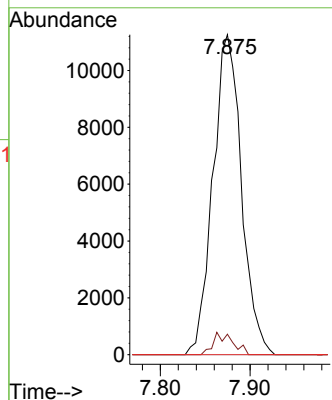


#38
Carbon Tetrachloride
Concen: 6.315 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.118 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Instrument :
MSVOA_D
ClientSampleId :

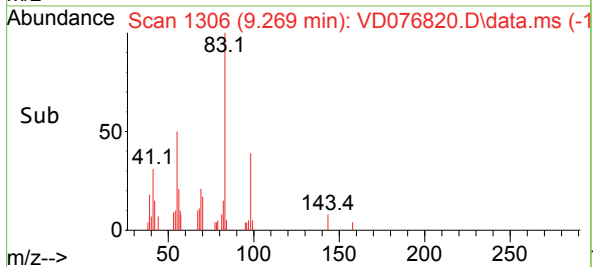
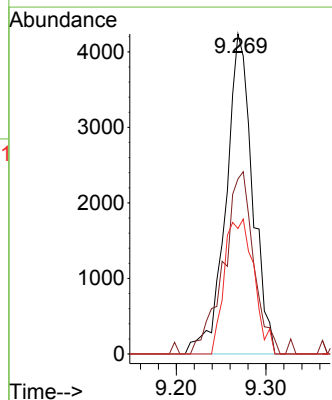
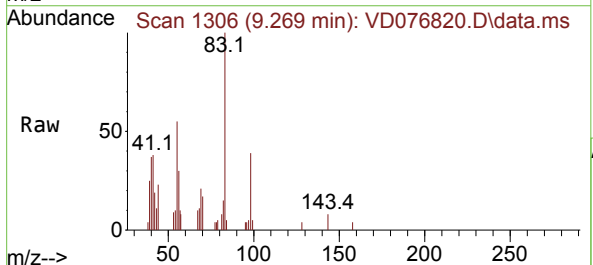


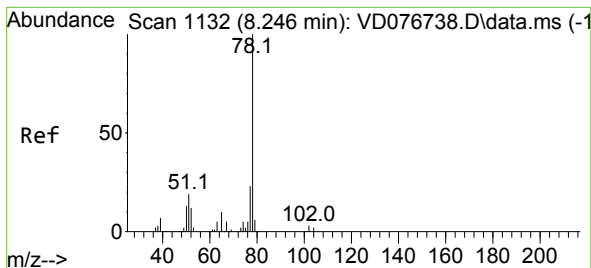
Tgt Ion:117 Resp: 24781
Ion Ratio Lower Upper
117 100
119 6.4 78.0 117.0#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 1.844 ug/l
RT: 9.269 min Scan# 1306
Delta R.T. -0.006 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Tgt Ion: 83 Resp: 8725
Ion Ratio Lower Upper
83 100
55 54.7 49.4 74.0
98 39.2 38.4 57.6





#40

Benzene

Concen: 21.252 ug/l

RT: 8.251 min Scan# 1133

Delta R.T. 0.005 min

Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

Instrument :

MSVOA_D

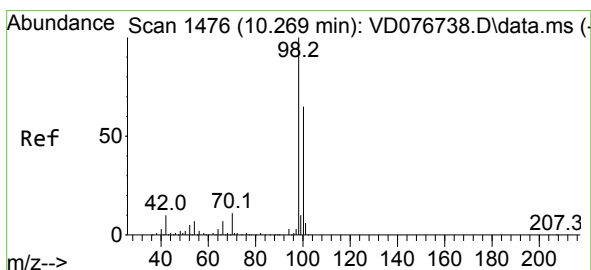
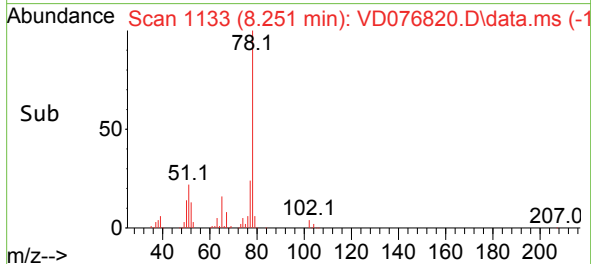
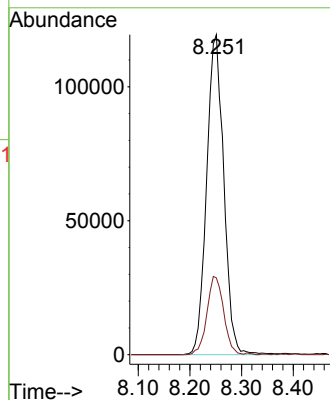
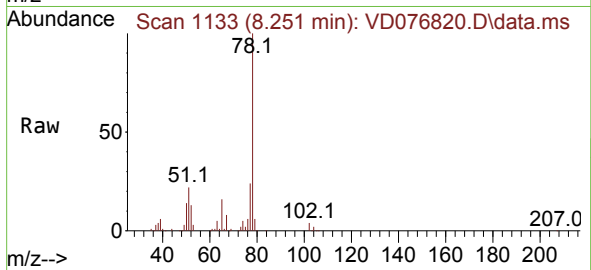
ClientSampleId :

Tgt Ion: 78 Resp: 274805

Ion Ratio Lower Upper

78 100

77 24.0 19.4 29.0



#50

Toluene-d8

Concen: 53.314 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VD076820.D

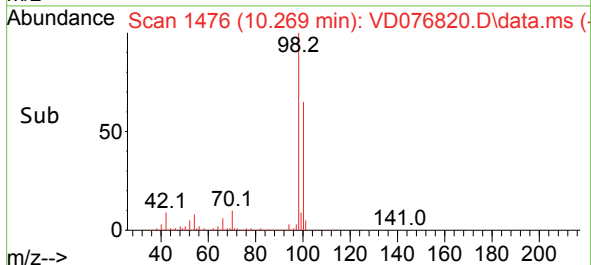
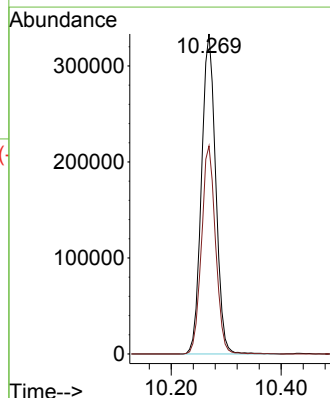
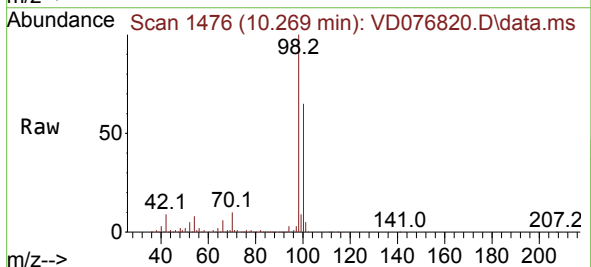
Acq: 26 Jul 2023 22:00

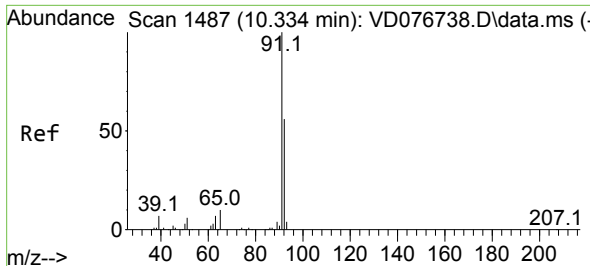
Tgt Ion: 98 Resp: 598139

Ion Ratio Lower Upper

98 100

100 64.3 50.3 75.5

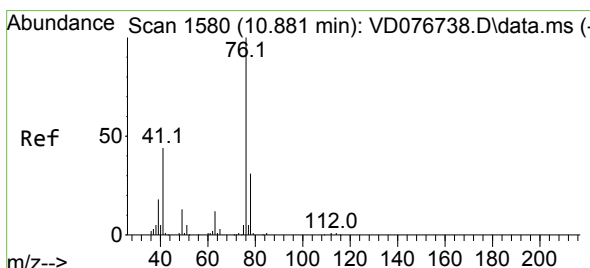
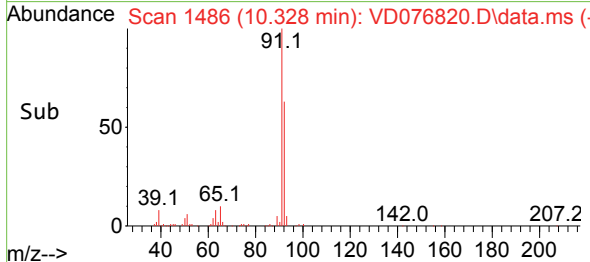
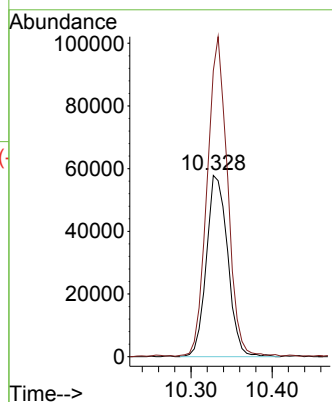
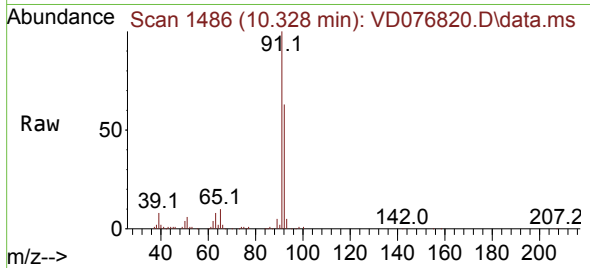




#52
Toluene
Concen: 12.395 ug/l
RT: 10.328 min Scan# 1486
Delta R.T. -0.006 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

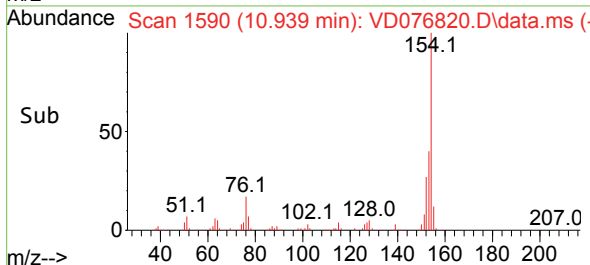
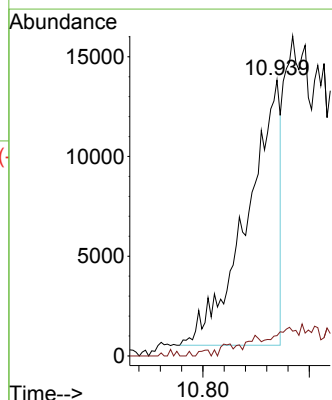
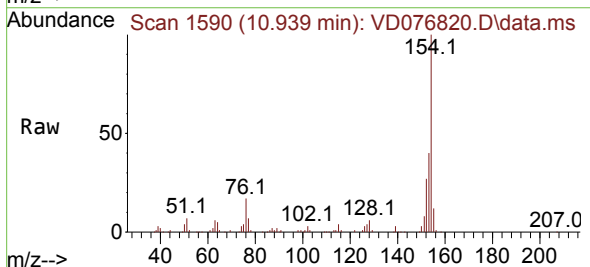
Instrument :
MSVOA_D
ClientSampleId :

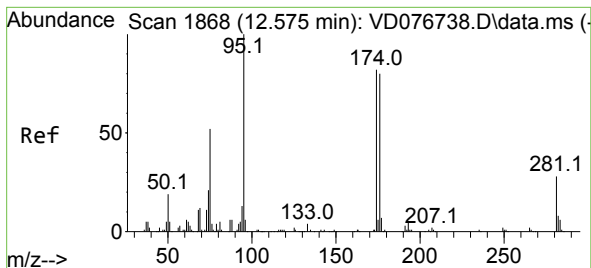
Tgt Ion: 92 Resp: 105267
Ion Ratio Lower Upper
92 100
91 168.1 143.0 214.4



#57
1,3-Dichloropropane
Concen: 12.332 ug/l
RT: 10.939 min Scan# 1590
Delta R.T. 0.058 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Tgt Ion: 76 Resp: 57298
Ion Ratio Lower Upper
76 100
78 0.0 26.4 39.6#

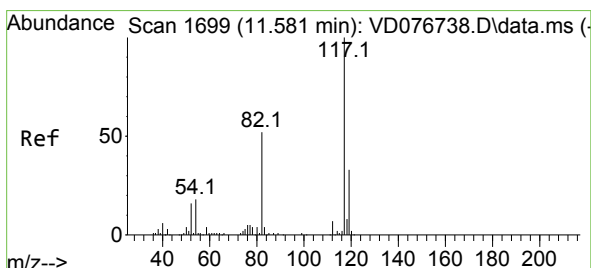
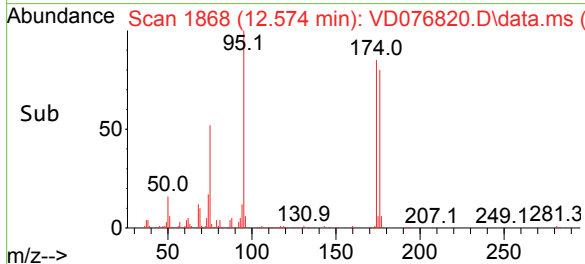
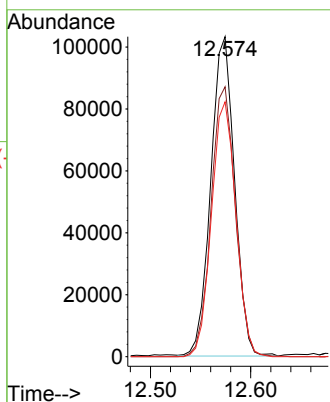
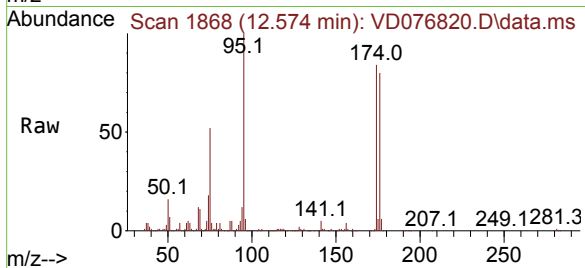




#62
4-Bromofluorobenzene
Concen: 46.946 ug/l
RT: 12.574 min Scan# 1868
Delta R.T. -0.001 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

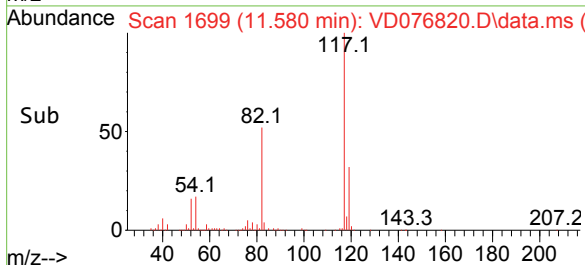
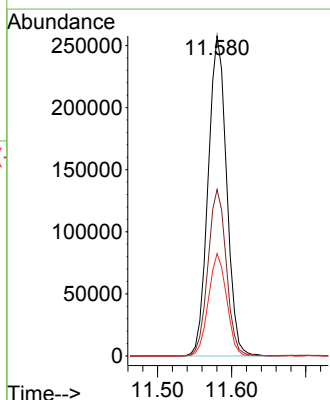
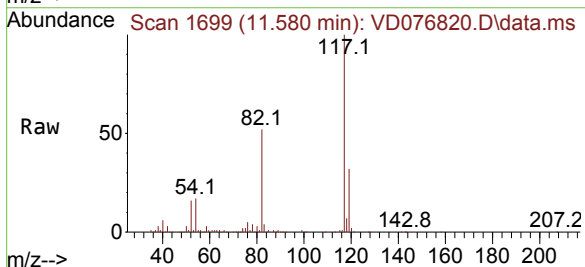
Instrument :
MSVOA_D
ClientSampleId :

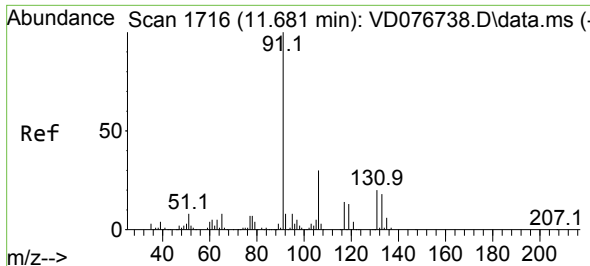
Tgt Ion: 95 Resp: 170388
Ion Ratio Lower Upper
95 100
174 86.1 0.0 201.8
176 81.7 0.0 191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.580 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Tgt Ion: 117 Resp: 446574
Ion Ratio Lower Upper
117 100
82 51.9 38.3 57.5
119 32.0 25.0 37.4

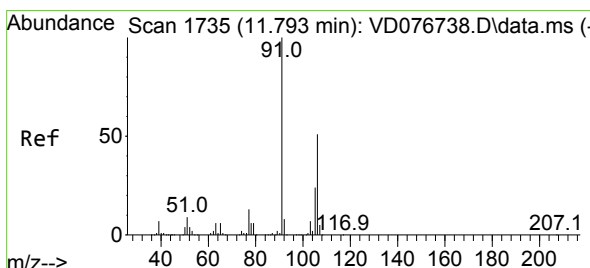
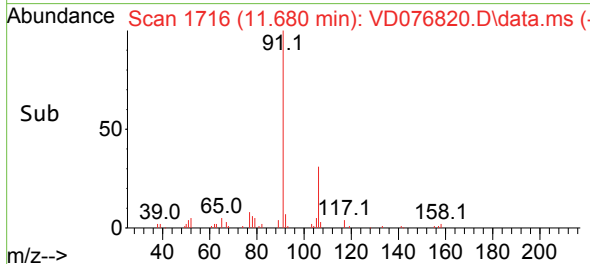
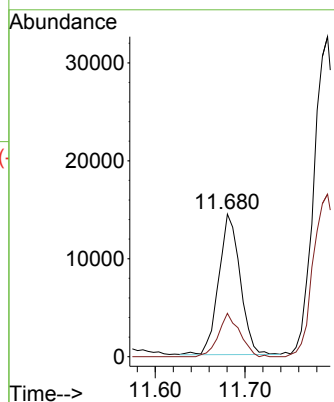
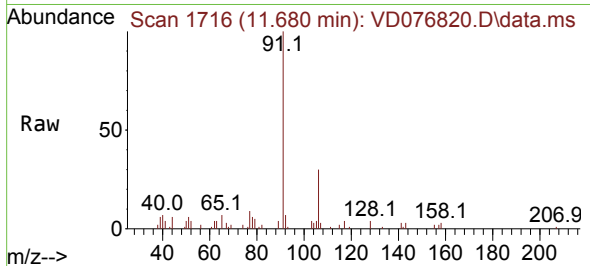




#67
Ethyl Benzene
Concen: 1.510 ug/l
RT: 11.680 min Scan# 1716
Delta R.T. -0.001 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

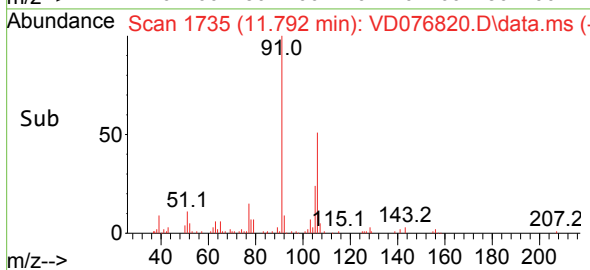
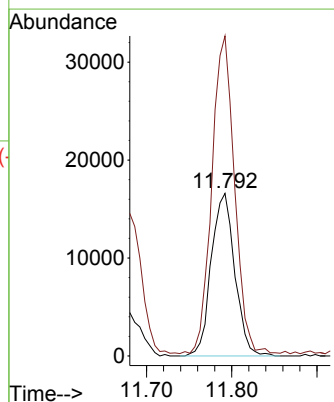
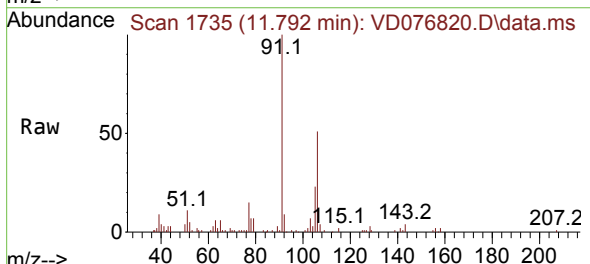
Instrument :
MSVOA_D
ClientSampleId :

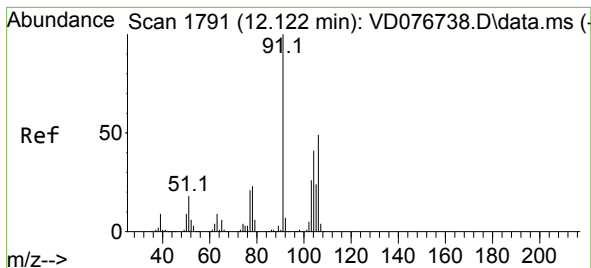
Tgt Ion: 91 Resp: 23814
Ion Ratio Lower Upper
91 100
106 30.9 26.5 39.7



#68
m/p-Xylenes
Concen: 5.266 ug/l
RT: 11.792 min Scan# 1735
Delta R.T. -0.001 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Tgt Ion:106 Resp: 31900
Ion Ratio Lower Upper
106 100
91 188.2 147.0 220.6





#69

o-Xylene

Concen: 3.495 ug/l

RT: 12.122 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

Instrument :

MSVOA_D

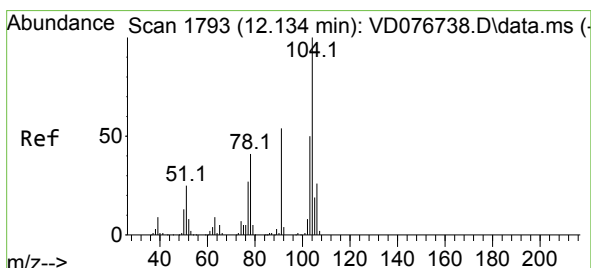
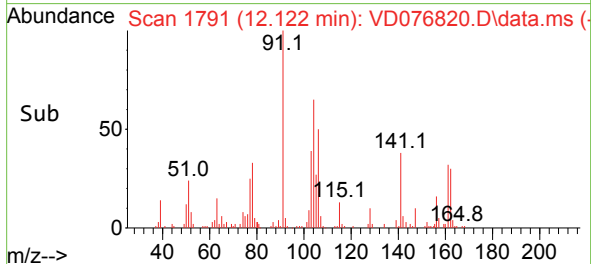
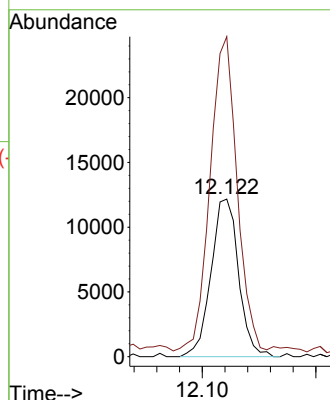
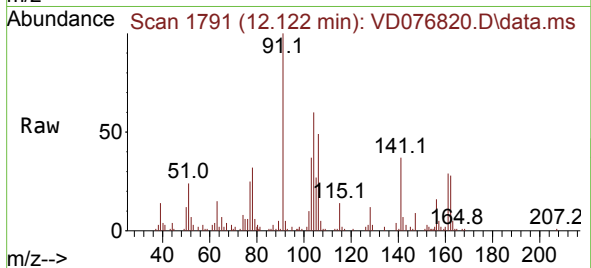
ClientSampleId :

Tgt Ion:106 Resp: 20474

Ion Ratio Lower Upper

106 100

91 196.1 97.9 293.6



#70

Styrene

Concen: 4.617 ug/l

RT: 12.133 min Scan# 1793

Delta R.T. -0.001 min

Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

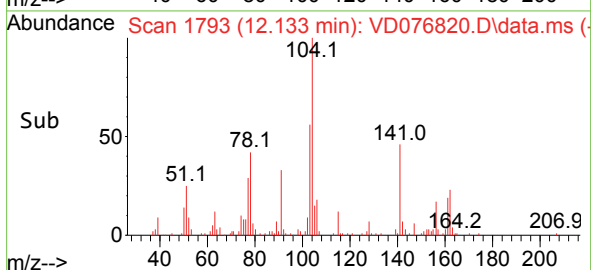
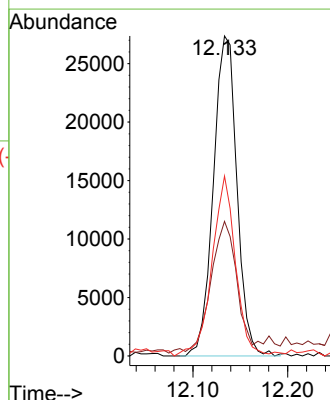
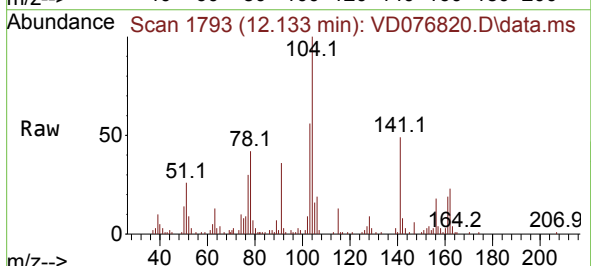
Tgt Ion:104 Resp: 47351

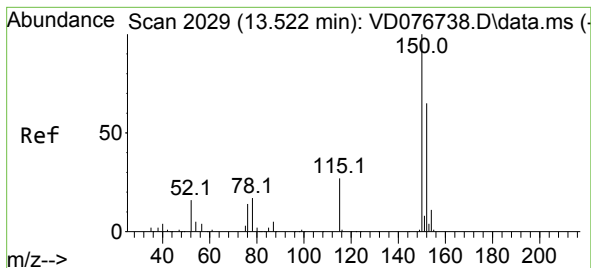
Ion Ratio Lower Upper

104 100

78 47.2 33.2 49.8

103 55.9 43.6 65.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2029

Delta R.T. -0.006 min

Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

Instrument :

MSVOA_D

ClientSampleId :

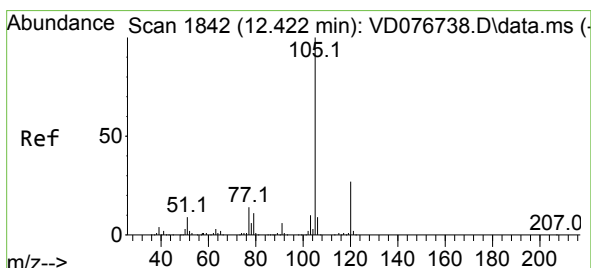
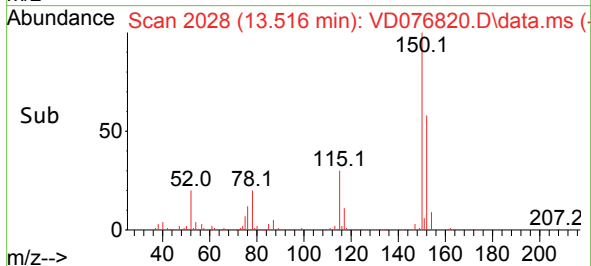
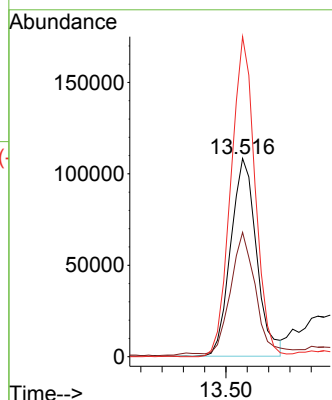
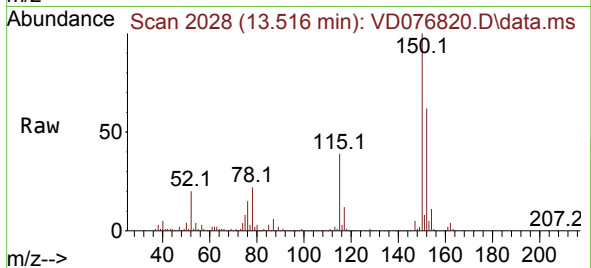
Tgt Ion:152 Resp: 182959

Ion Ratio Lower Upper

152 100

115 58.5 27.1 81.3

150 151.2 0.0 353.6



#73

Isopropylbenzene

Concen: 1.079 ug/l

RT: 12.427 min Scan# 1843

Delta R.T. 0.005 min

Lab File: VD076820.D

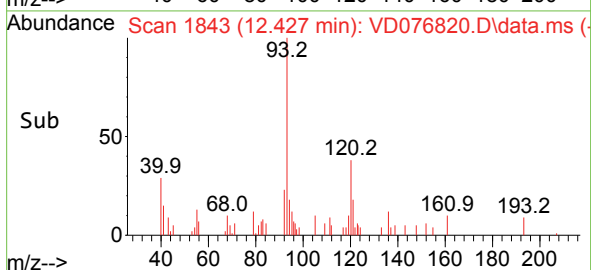
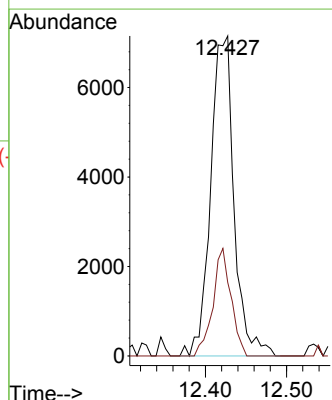
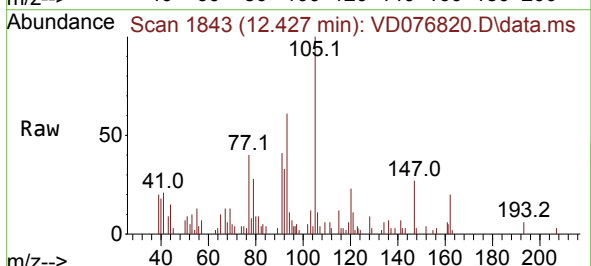
Acq: 26 Jul 2023 22:00

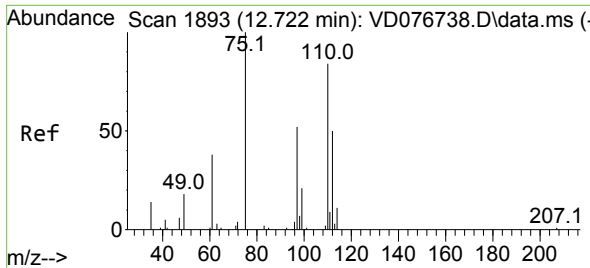
Tgt Ion:105 Resp: 14329

Ion Ratio Lower Upper

105 100

120 26.0 14.3 42.9

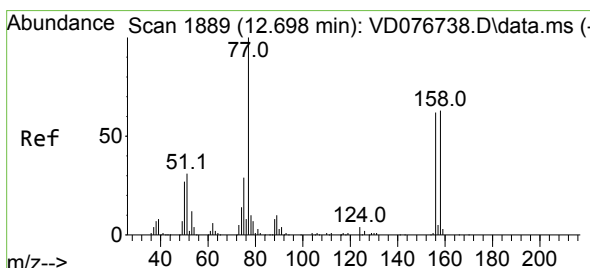
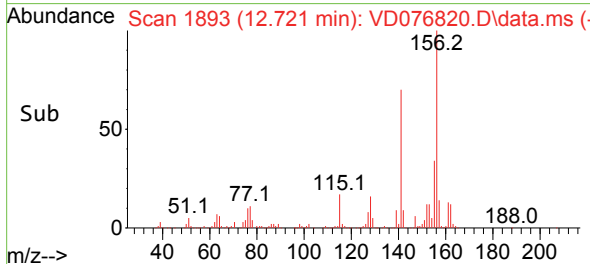
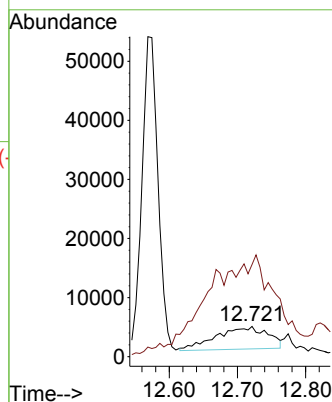
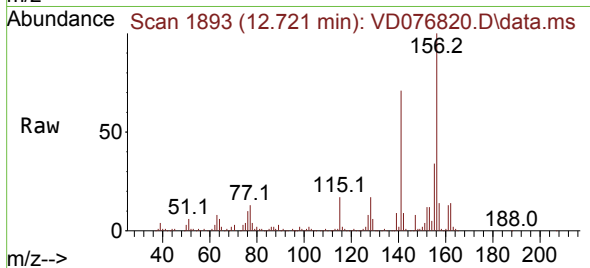




#76
1,2,3-Trichloropropane
Concen: 11.498 ug/l
RT: 12.721 min Scan# 1893
Delta R.T. -0.001 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

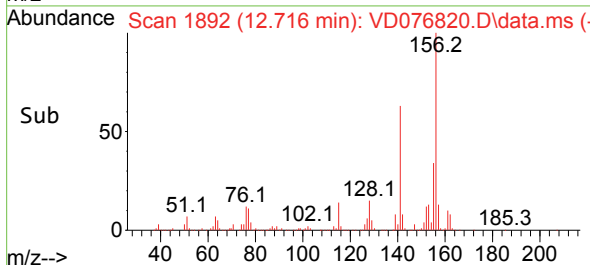
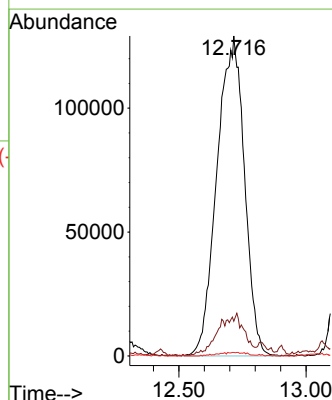
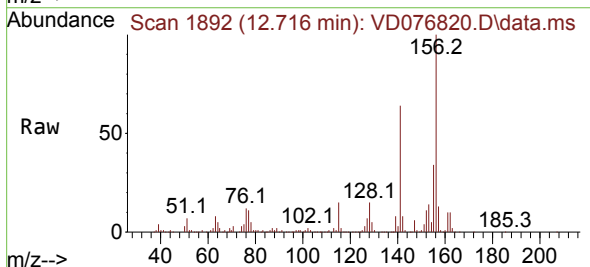
Instrument :
MSVOA_D
ClientSampleId :

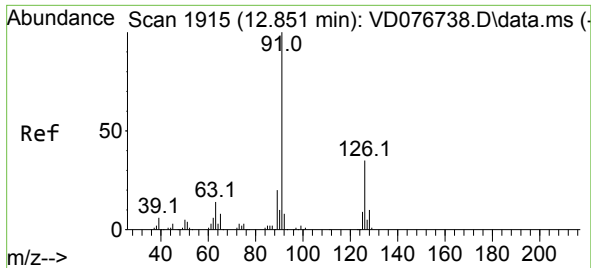
Tgt Ion: 75 Resp: 20006
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#77
Bromobenzene
Concen: 315.418 ug/l
RT: 12.716 min Scan# 1892
Delta R.T. 0.018 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

Tgt Ion:156 Resp: 966432
Ion Ratio Lower Upper
156 100
77 0.0 76.8 230.4#
158 0.0 48.6 145.9#

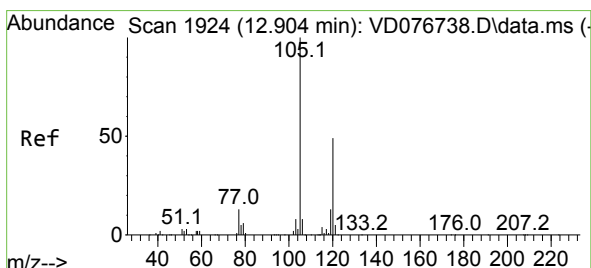
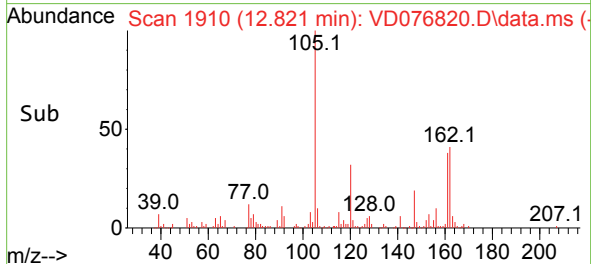
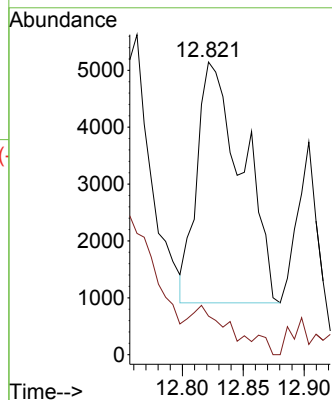
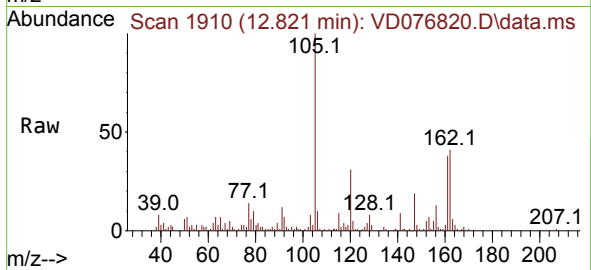




#79
2-Chlorotoluene
Concen: 1.244 ug/l
RT: 12.821 min Scan# 1915
Delta R.T. -0.030 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

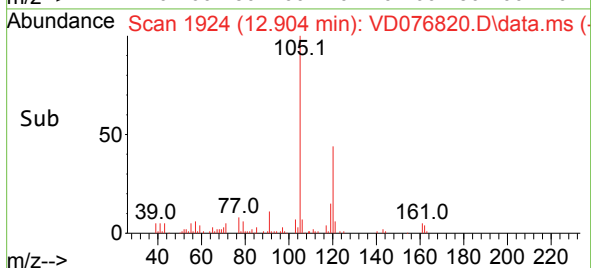
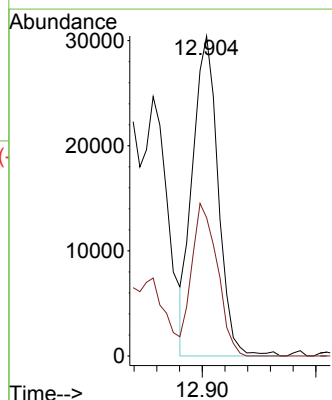
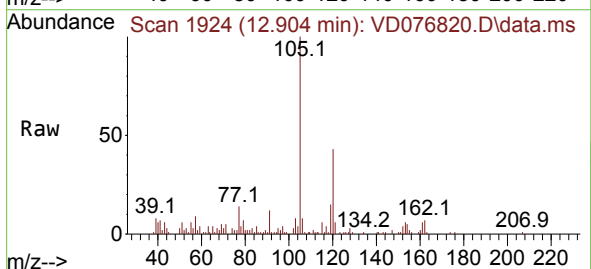
Instrument :
MSVOA_D
ClientSampleId :

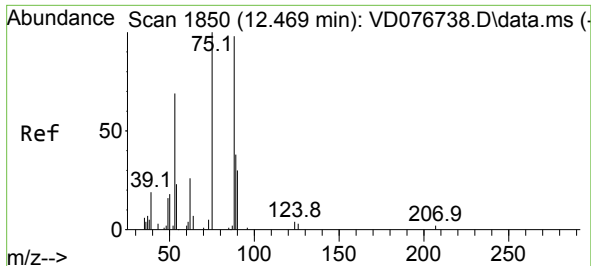
Tgt Ion: 91 Resp: 10975
Ion Ratio Lower Upper
91 100
126 17.4 19.4 58.1#



#80
1,3,5-Trimethylbenzene
Concen: 4.434 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. -0.000 min
Lab File: VD076820.D
Acq: 26 Jul 2023 22:00

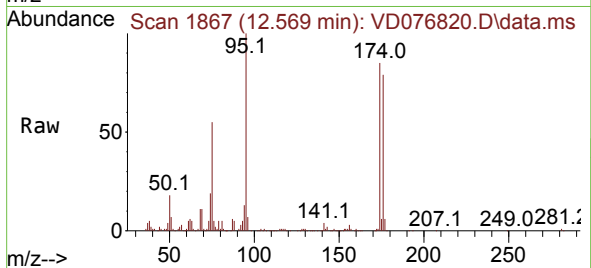
Tgt Ion: 105 Resp: 47587
Ion Ratio Lower Upper
105 100
120 47.7 26.4 79.2



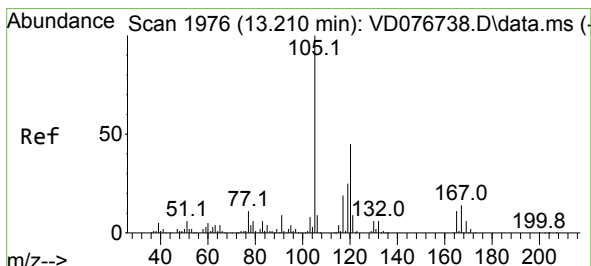
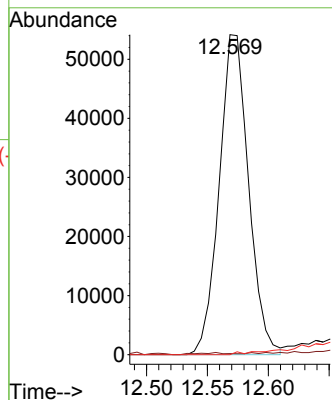
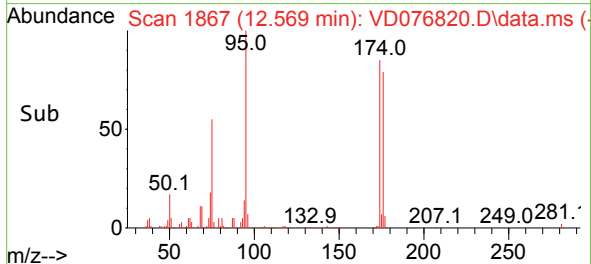


#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.297 ug/l
 RT: 12.569 min Scan# 1850
 Delta R.T. 0.100 min
 Lab File: VD076820.D
 Acq: 26 Jul 2023 22:00

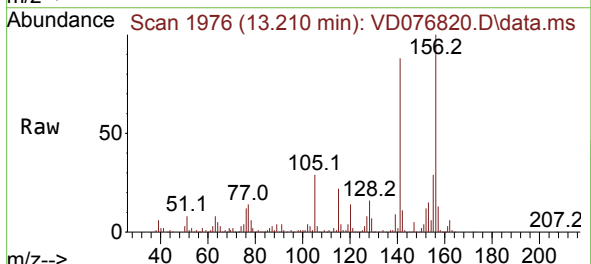
Instrument :
 MSVOA_D
 ClientSampleId :



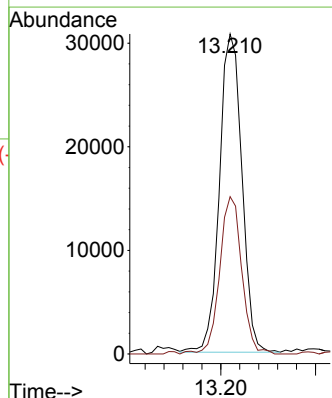
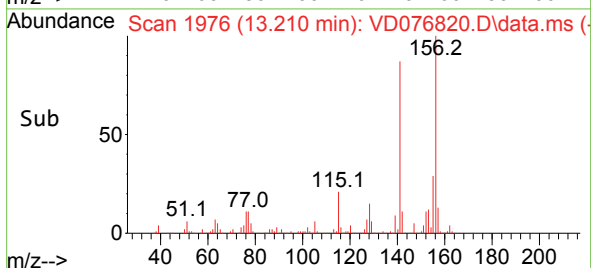
Tgt Ion: 75 Resp: 90989
 Ion Ratio Lower Upper
 75 100
 53 0.7 63.0 94.4#
 89 0.0 37.9 56.9#

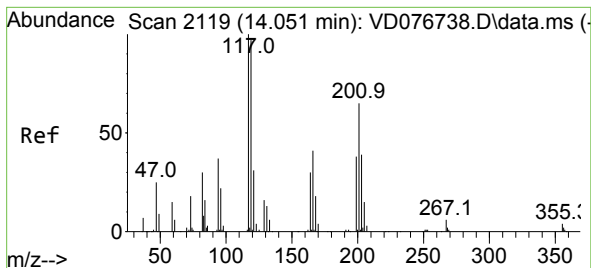


#84
 1,2,4-Trimethylbenzene
 Concen: 4.609 ug/l
 RT: 13.210 min Scan# 1976
 Delta R.T. -0.000 min
 Lab File: VD076820.D
 Acq: 26 Jul 2023 22:00



Tgt Ion: 105 Resp: 50557
 Ion Ratio Lower Upper
 105 100
 120 48.8 24.3 72.9





#90

Hexachloroethane

Concen: 3.034 ug/l

RT: 14.057 min Scan# 2119

Delta R.T. 0.006 min

Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

Instrument :

MSVOA_D

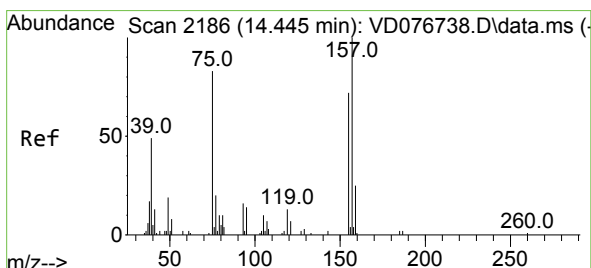
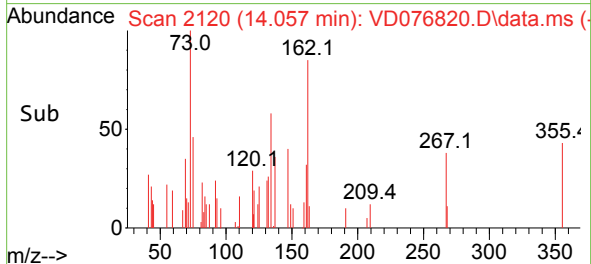
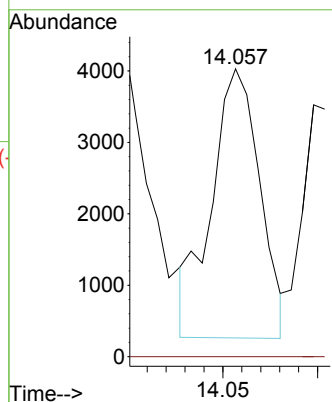
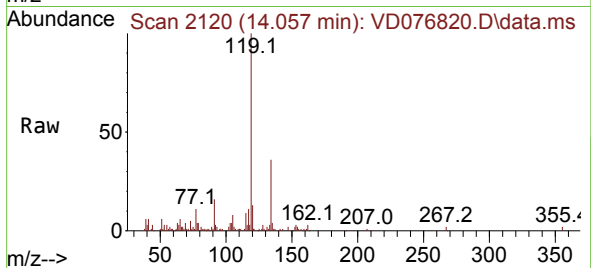
ClientSampleId :

Tgt Ion:117 Resp: 6688

Ion Ratio Lower Upper

117 100

201 0.0 38.5 115.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 189.709 ug/l

RT: 14.427 min Scan# 2183

Delta R.T. -0.018 min

Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

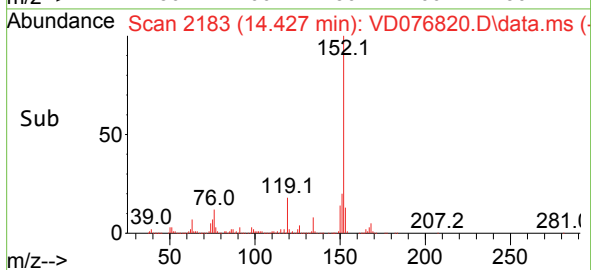
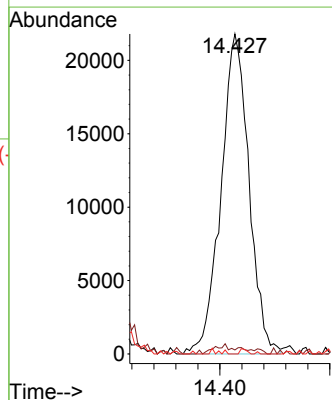
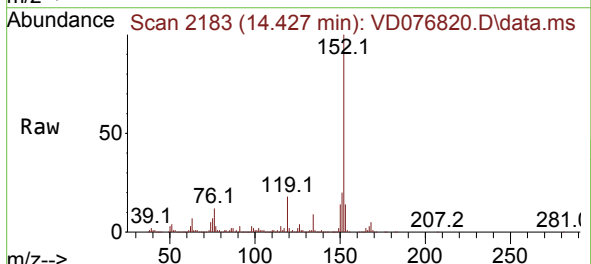
Tgt Ion: 75 Resp: 77091

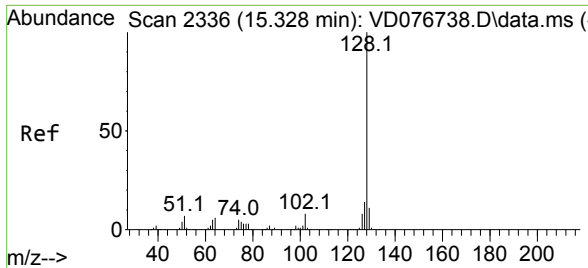
Ion Ratio Lower Upper

75 100

155 1.7 47.9 143.8#

157 0.0 59.9 179.7#





#95

Naphthalene

Concen: 222.127 ug/l

RT: 15.327 min Scan# 21

Delta R.T. -0.001 min

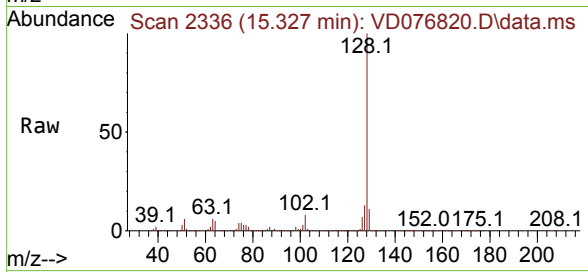
Lab File: VD076820.D

Acq: 26 Jul 2023 22:00

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:128 Resp: 1630557

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

129 10.8 8.7 13.1

