

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051923\
 Data File : VD076163.D
 Acq On : 19 May 2023 18:39
 Operator : KP/SY
 Sample : 02849-11
 Misc : 4.92G/5.01ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP8

Quant Time: May 22 01:31:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051523S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 10:08:53 2023
 Response via : Initial Calibration

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

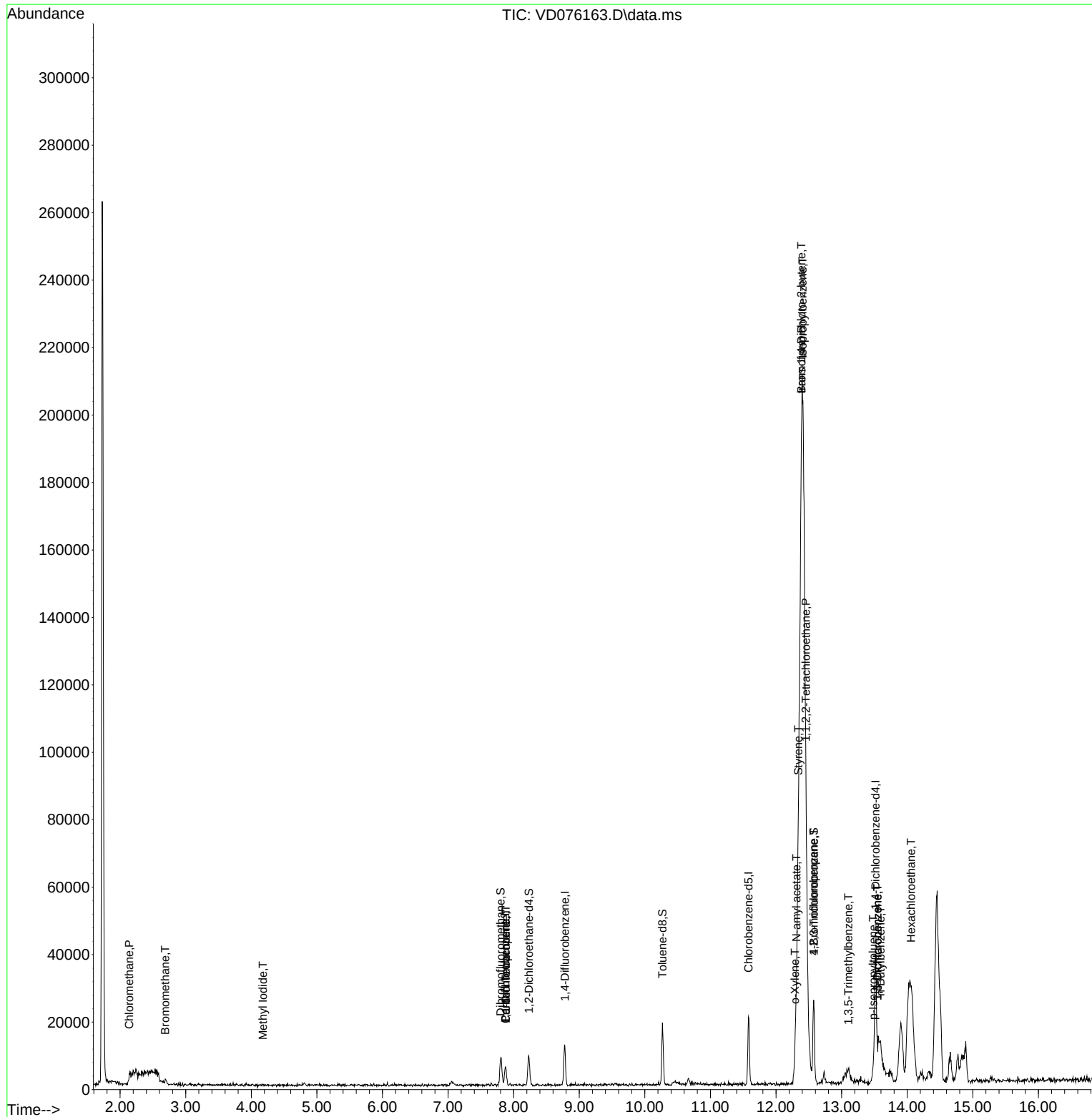
Internal Standards						
1) Pentafluorobenzene	7.875	168	5350	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	12224	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	13451	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	7196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	6764	130.816	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 261.640%#	
35) Dibromofluoromethane	7.799	113	6207	73.460	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 146.920%	
50) Toluene-d8	10.269	98	13382	40.628	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 81.260%	
62) 4-Bromofluorobenzene	12.575	95	8116	88.702	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 177.400%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.140	50	875	7.246	ug/l #	45
5) Bromomethane	2.687	94	1067	15.230	ug/l	96
10) Methyl Iodide	4.175	142	266	4.403	ug/l #	38
20) Methylene Chloride	4.793	84	269	Below Cal	#	4
36) 1,1-Dichloropropene	7.881	75	383	3.356	ug/l #	42
38) Carbon Tetrachloride	7.881	117	520	5.045	ug/l #	13
69) o-Xylene	12.287	106	328	1.797	ug/l #	1
70) Styrene	12.339	104	456	1.441	ug/l #	57
71) Bromoform	12.387	173	191	3.222	ug/l #	1
73) Isopropylbenzene	12.404	105	51970	109.175	ug/l	89
74) N-amyl acetate	12.310	43	636	7.501	ug/l #	55
75) 1,1,2,2-Tetrachloroethane	12.457	83	395	3.861	ug/l #	24
76) 1,2,3-Trichloropropane	12.575	75	4230	67.174	ug/l #	100
80) 1,3,5-Trimethylbenzene	13.104	105	407	1.031	ug/l	67
81) trans-1,4-Dichloro-2-b...	12.387	75	145	4.831	ug/l #	1
86) p-Isopropyltoluene	13.481	119	466	1.096	ug/l #	74
87) 1,3-Dichlorobenzene	13.545	146	297	1.151	ug/l #	45
88) 1,4-Dichlorobenzene	13.545	146	297	1.163	ug/l #	44
89) n-Butylbenzene	13.592	91	1412	3.523	ug/l	81
90) Hexachloroethane	14.057	117	837	9.568	ug/l #	15

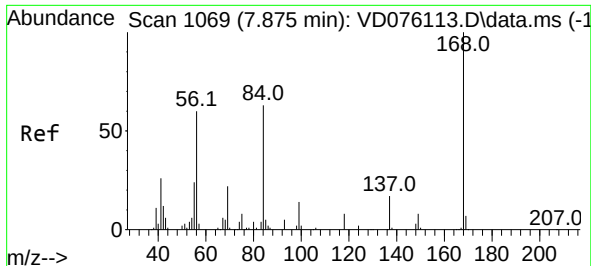
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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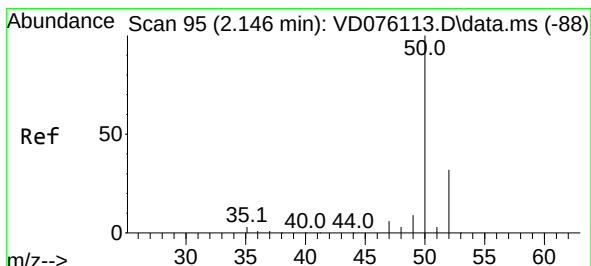
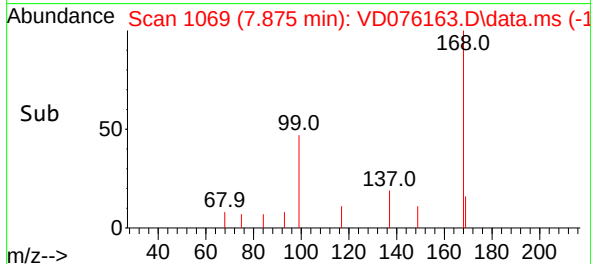
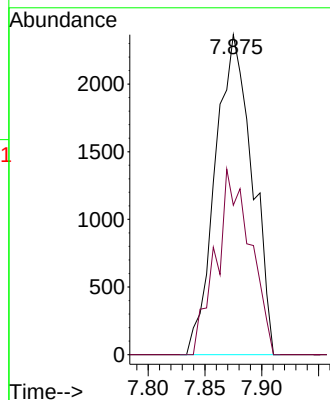
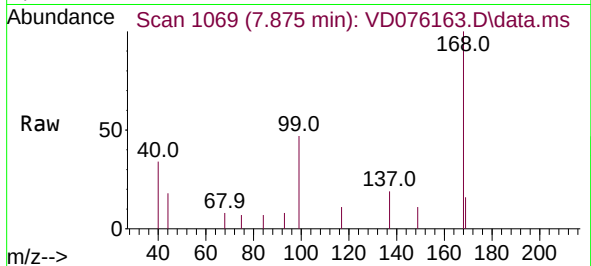




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

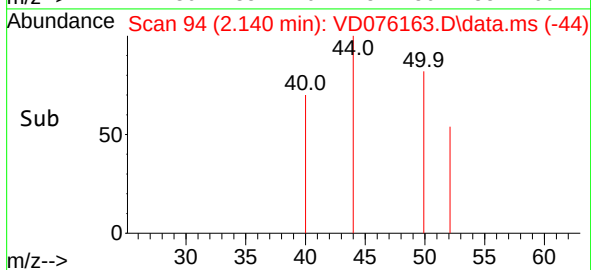
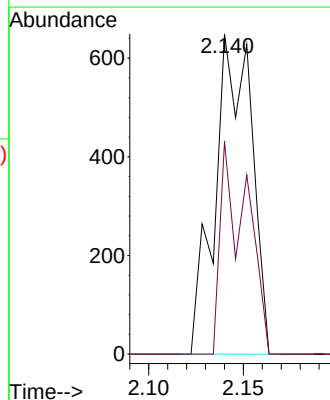
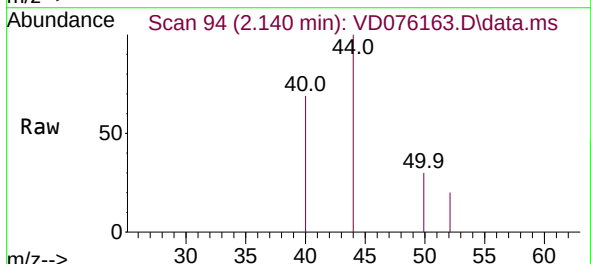
Instrument :
MSVOA_D
ClientSampleId :
TP8

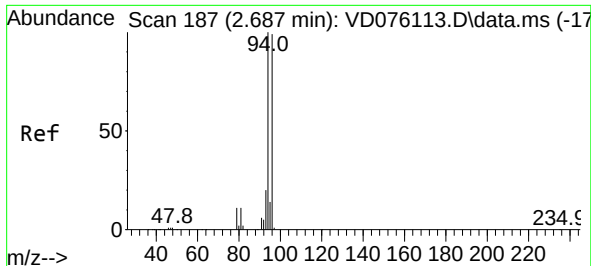
Tgt Ion:168 Resp: 5350
Ion Ratio Lower Upper
168 100
99 46.7 43.8 65.6



#3
Chloromethane
Concen: 7.246 ug/l
RT: 2.140 min Scan# 94
Delta R.T. -0.006 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion: 50 Resp: 875
Ion Ratio Lower Upper
50 100
52 66.4 27.8 41.8#

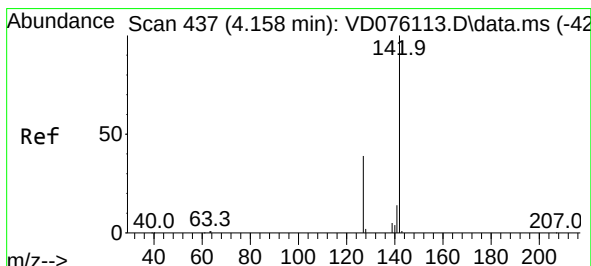
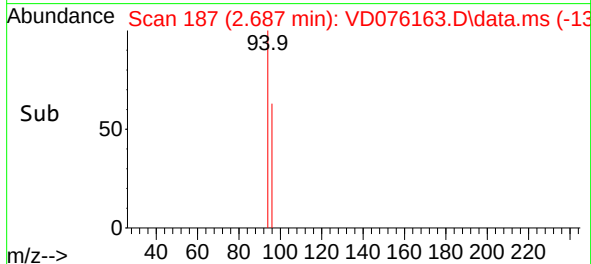
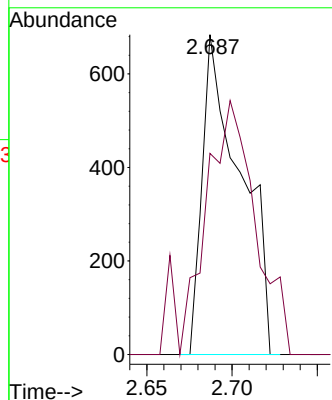
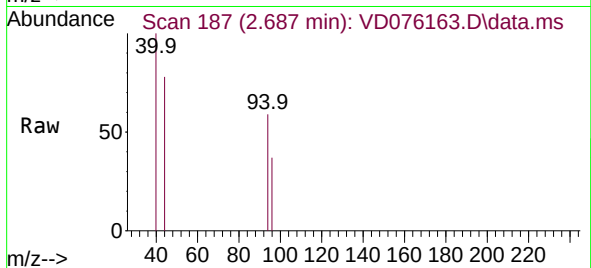




#5
Bromomethane
Concen: 15.230 ug/l
RT: 2.687 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

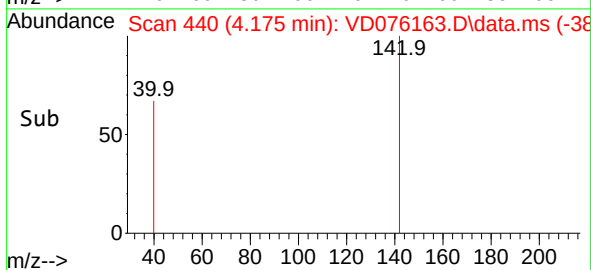
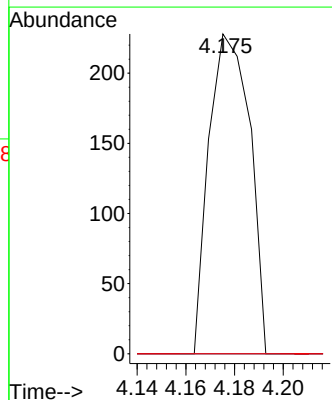
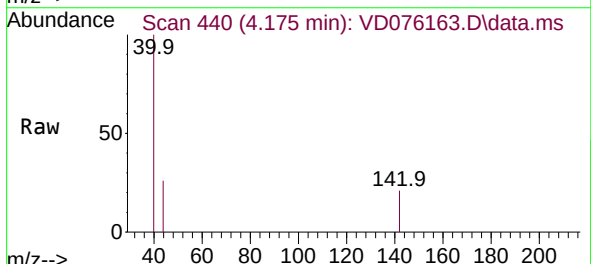
Instrument :
MSVOA_D
ClientSampleId :
TP8

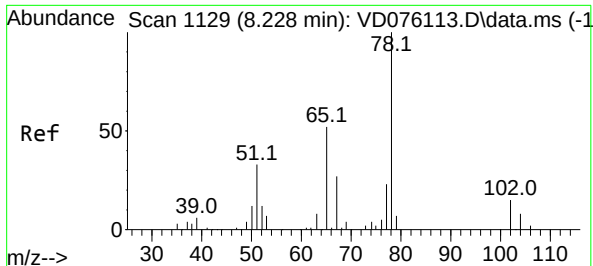
Tgt Ion: 94 Resp: 1067
Ion Ratio Lower Upper
94 100
96 101.2 77.5 116.3



#10
Methyl Iodide
Concen: 4.403 ug/l
RT: 4.175 min Scan# 440
Delta R.T. 0.011 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion: 142 Resp: 266
Ion Ratio Lower Upper
142 100
127 0.0 37.1 55.7#
141 0.0 11.3 16.9#





#33

1,2-Dichloroethane-d4

Concen: 130.816 ug/l

RT: 8.234 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD076163.D

Acq: 19 May 2023 18:39

Instrument :

MSVOA_D

ClientSampleId :

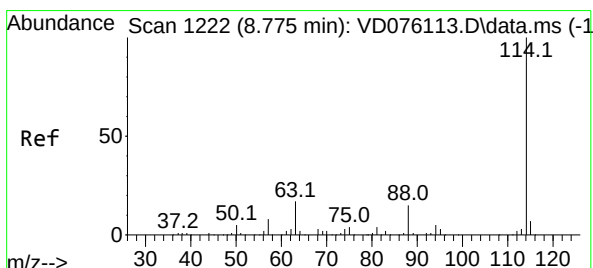
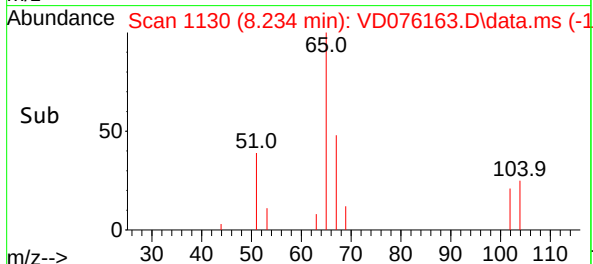
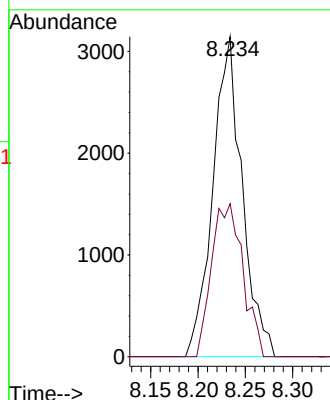
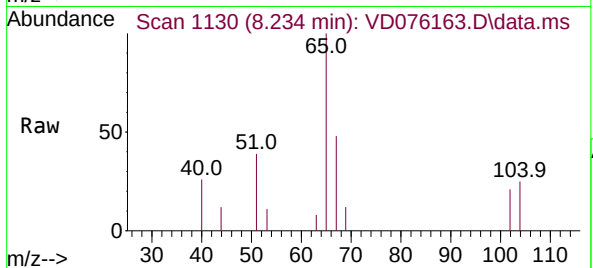
TP8

Tgt Ion: 65 Resp: 6764

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD076163.D

Acq: 19 May 2023 18:39

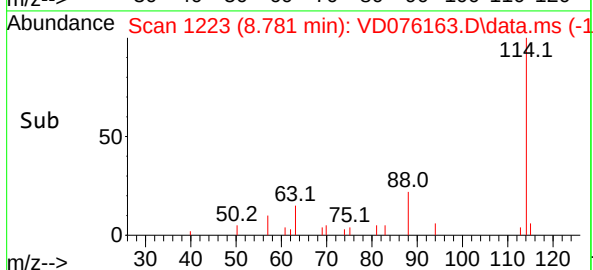
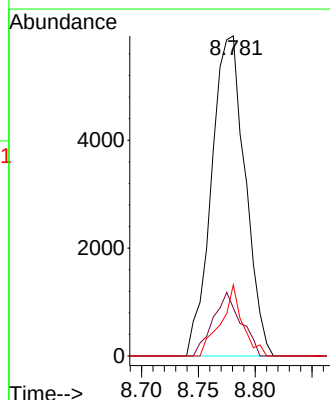
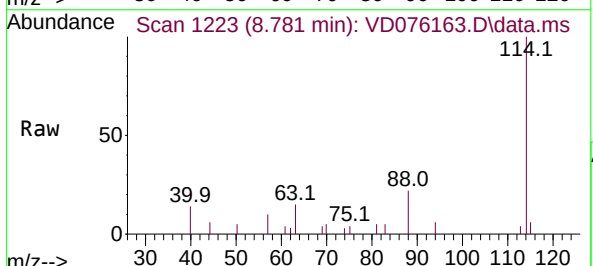
Tgt Ion: 114 Resp: 12224

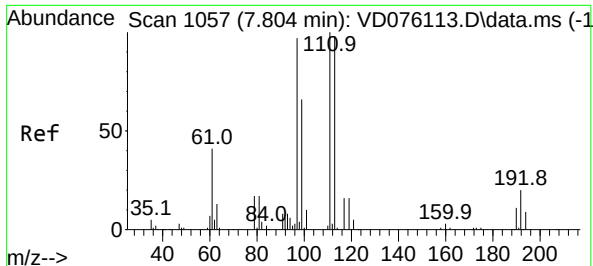
Ion Ratio Lower Upper

114 100

63 15.0 0.0 41.6

88 22.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 73.460 ug/l

RT: 7.799 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VD076163.D

Acq: 19 May 2023 18:39

Instrument :

MSVOA_D

ClientSampleId :

TP8

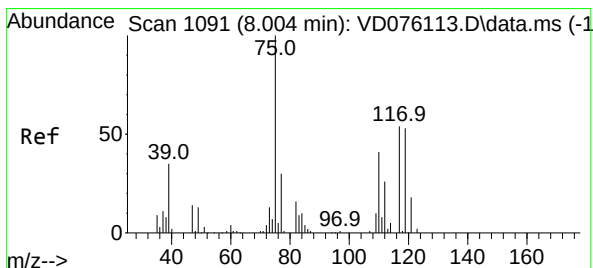
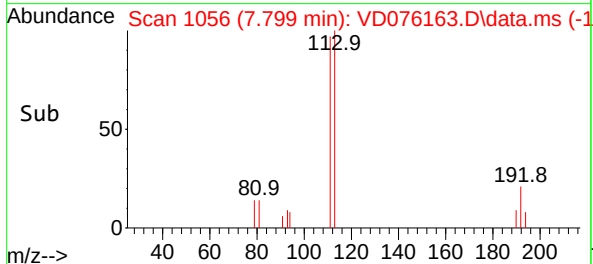
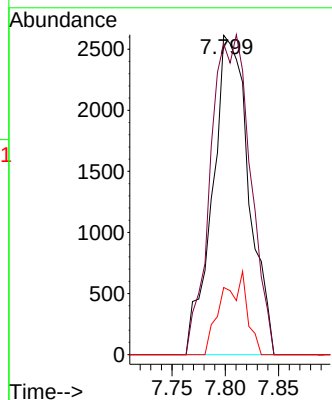
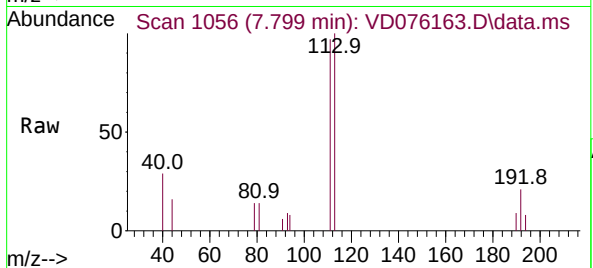
Tgt Ion:113 Resp: 6207

Ion Ratio Lower Upper

113 100

111 109.4 81.4 122.0

192 18.0 15.2 22.8



#36

1,1-Dichloropropene

Concen: 3.356 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.129 min

Lab File: VD076163.D

Acq: 19 May 2023 18:39

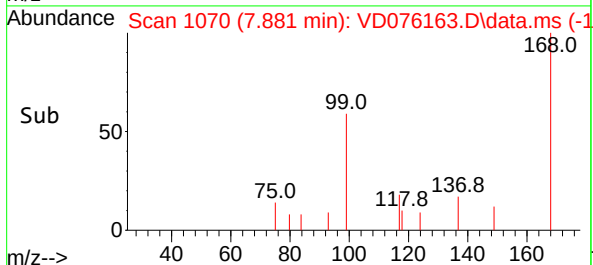
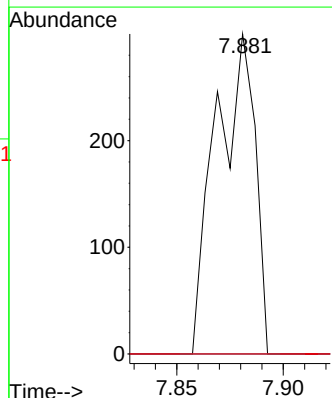
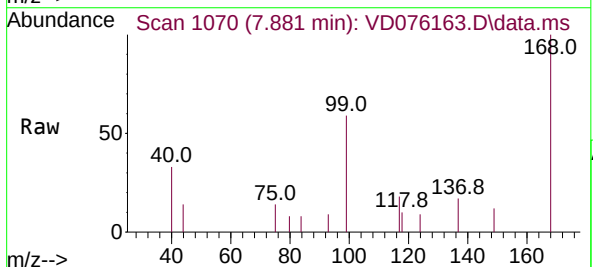
Tgt Ion: 75 Resp: 383

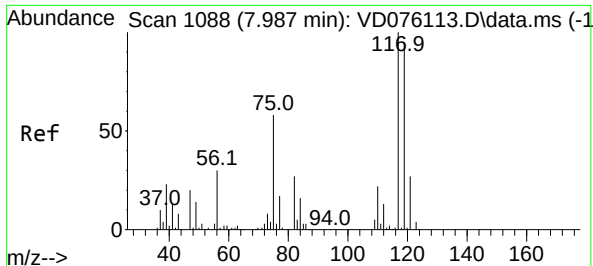
Ion Ratio Lower Upper

75 100

110 0.0 17.1 51.2#

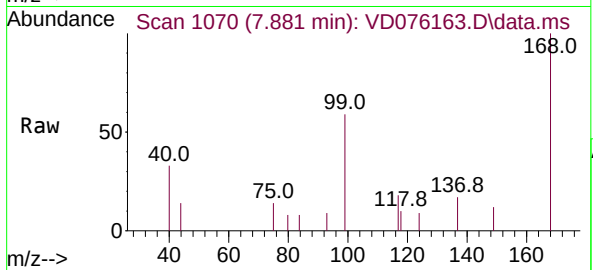
77 0.0 24.6 36.8#



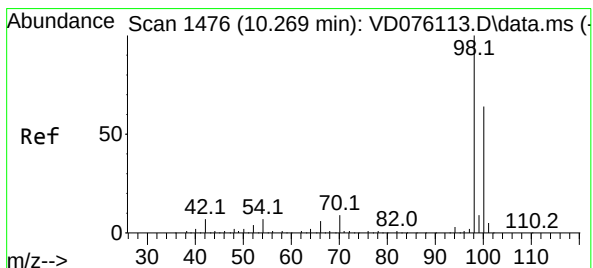
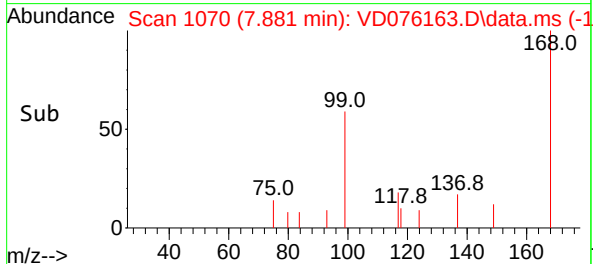
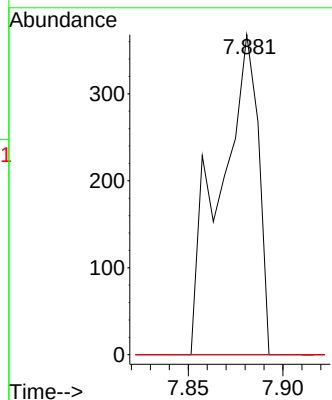


#38
Carbon Tetrachloride
Concen: 5.045 ug/l
RT: 7.881 min Scan# 1088
Delta R.T. -0.112 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Instrument :
MSVOA_D
ClientSampleId :
TP8

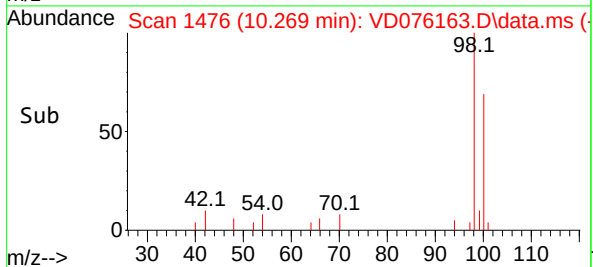
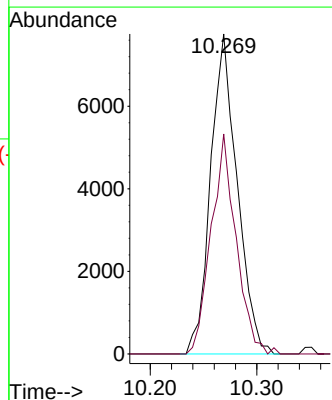
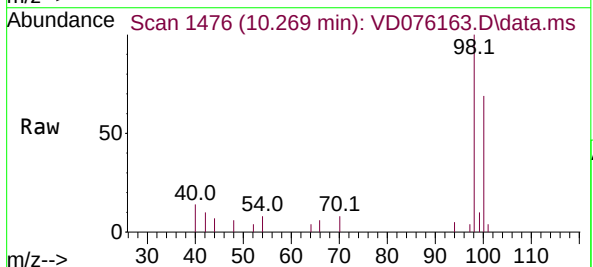


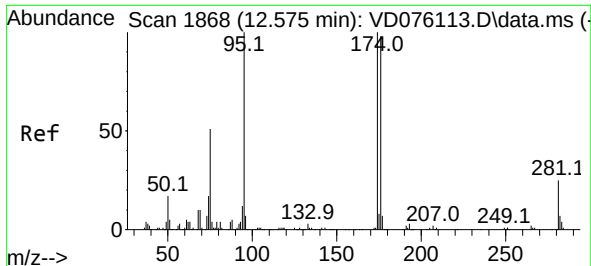
Tgt Ion:117 Resp: 520
Ion Ratio Lower Upper
117 100
119 0.0 74.7 112.1#
121 0.0 25.9 38.9#



#50
Toluene-d8
Concen: 40.628 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion: 98 Resp: 13382
Ion Ratio Lower Upper
98 100
100 65.0 52.1 78.1

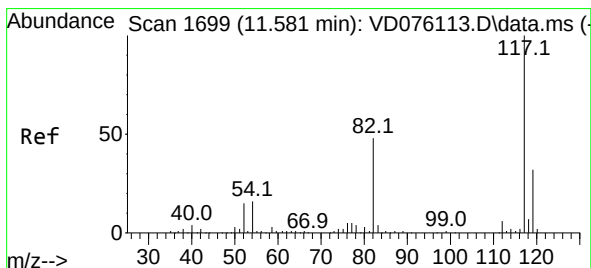
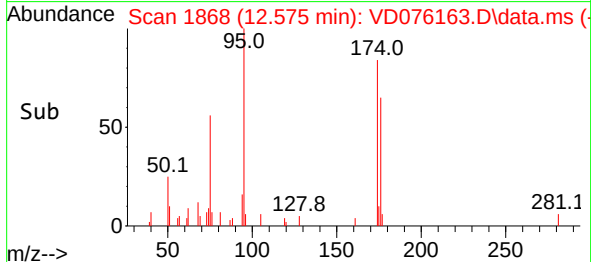
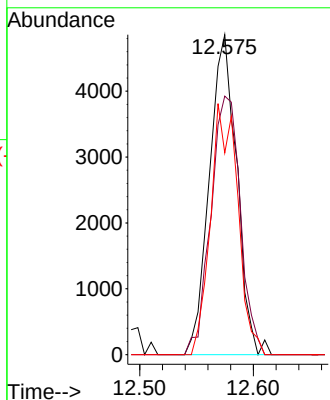
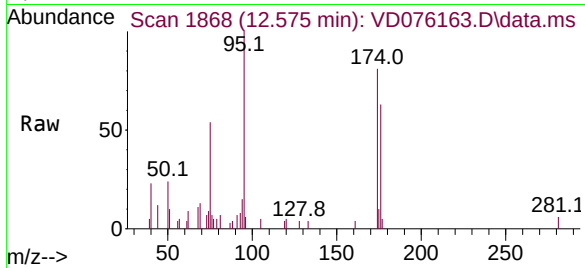




#62
4-Bromofluorobenzene
Concen: 88.702 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

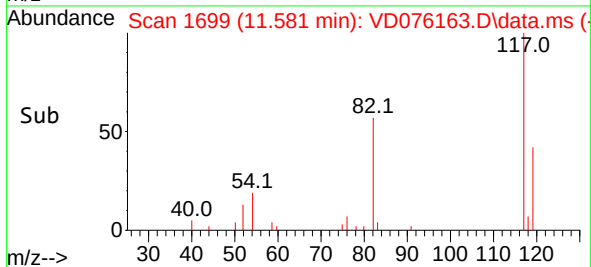
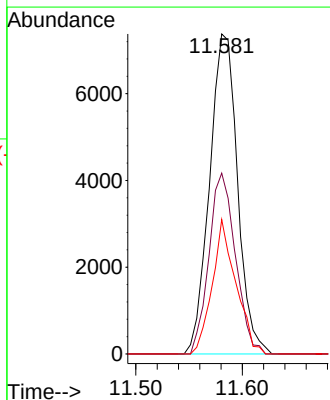
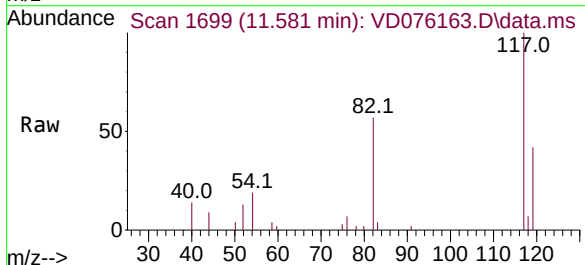
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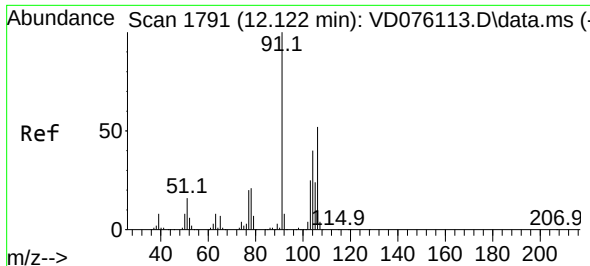
Tgt Ion: 95 Resp: 8116
Ion Ratio Lower Upper
95 100
174 87.3 0.0 164.0
176 77.9 0.0 156.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion: 117 Resp: 13451
Ion Ratio Lower Upper
117 100
82 56.5 44.0 66.0
119 42.0 25.1 37.7#

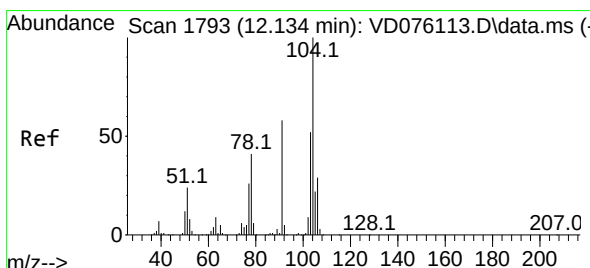
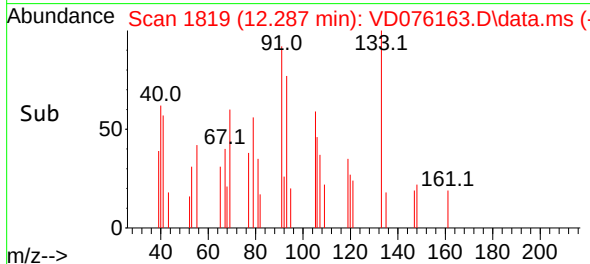
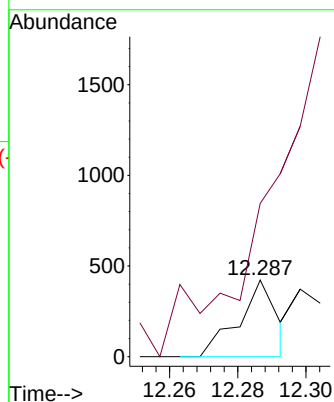
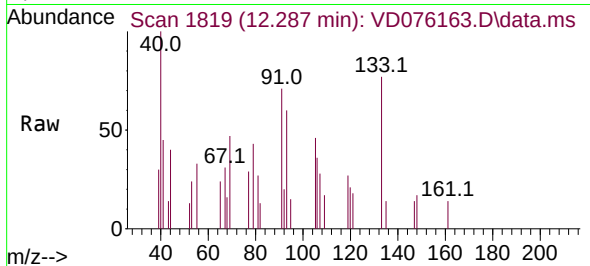




#69
o-Xylene
Concen: 1.797 ug/l
RT: 12.287 min Scan# 11
Delta R.T. 0.165 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

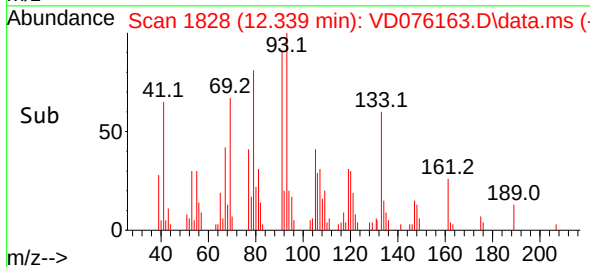
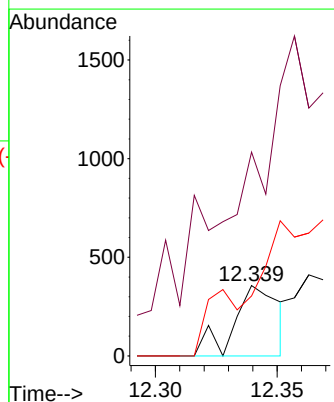
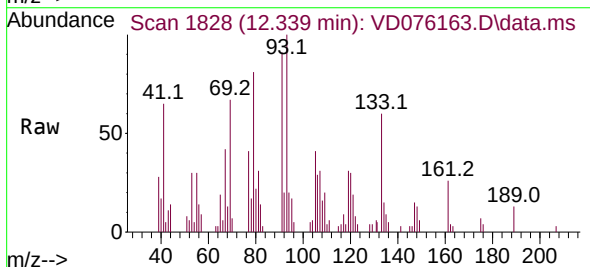
Instrument :
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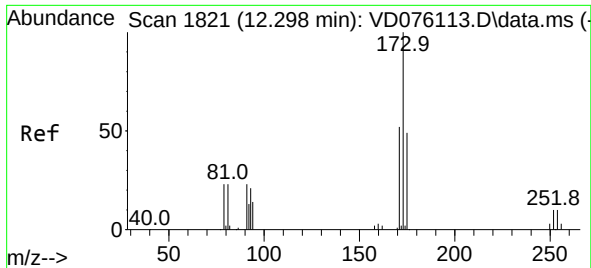
Tgt Ion:106 Resp: 328
Ion Ratio Lower Upper
106 100
91 0.0 105.7 317.1#



#70
Styrene
Concen: 1.441 ug/l
RT: 12.339 min Scan# 1828
Delta R.T. 0.199 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion:104 Resp: 456
Ion Ratio Lower Upper
104 100
78 0.0 40.2 60.4#
103 66.2 44.2 66.2

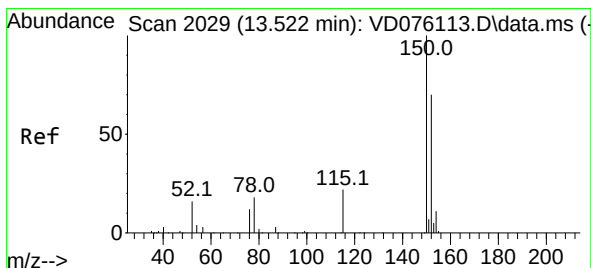
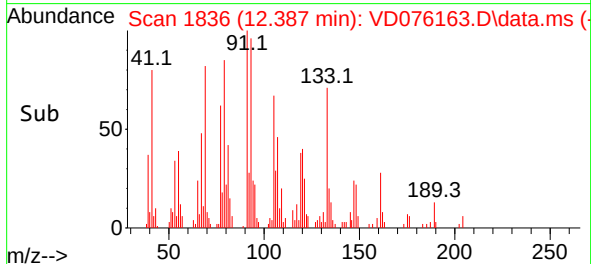
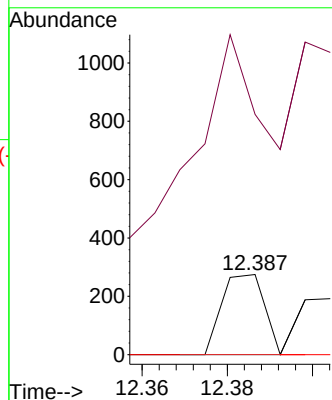
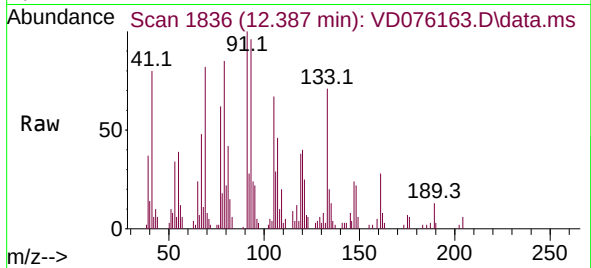




#71
Bromoform
Concen: 3.222 ug/l
RT: 12.387 min Scan# 1821
Delta R.T. 0.089 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

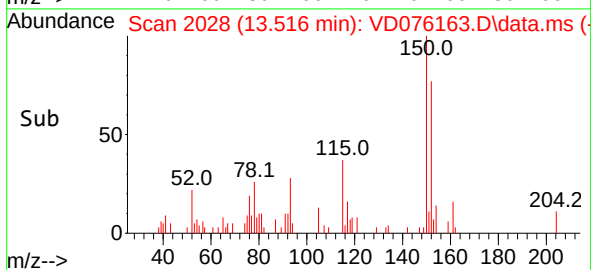
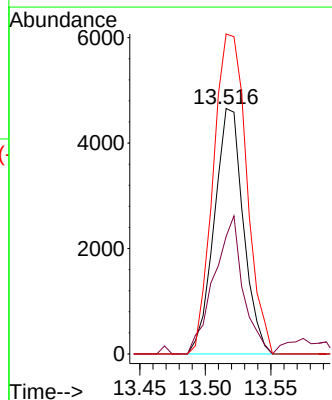
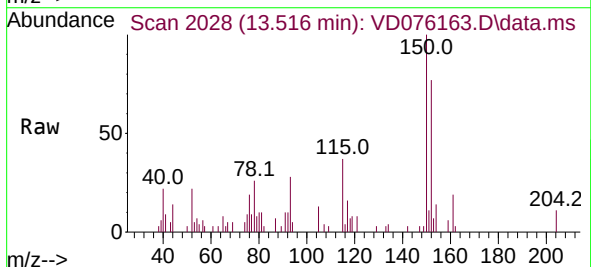
Instrument :
MSVOA_D
ClientSampleId :
TP8

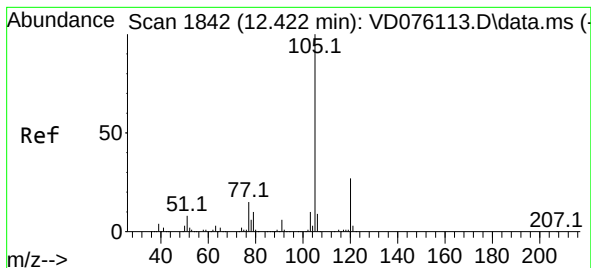
Tgt Ion:173 Resp: 191
Ion Ratio Lower Upper
173 100
175 999.5 23.5 70.5#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.006 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion:152 Resp: 7196
Ion Ratio Lower Upper
152 100
115 55.7 30.1 90.3
150 149.4 0.0 364.8





#73

Isopropylbenzene

Concen: 109.175 ug/l

RT: 12.404 min Scan# 1839

Delta R.T. -0.018 min

Lab File: VD076163.D

Acq: 19 May 2023 18:39

Instrument :

MSVOA_D

ClientSampleId :

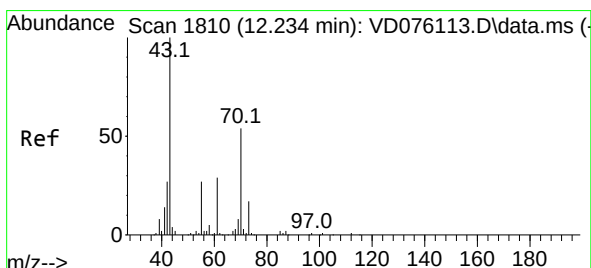
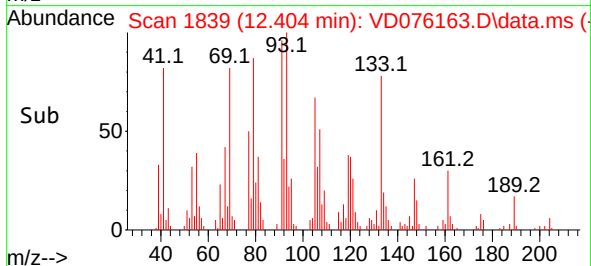
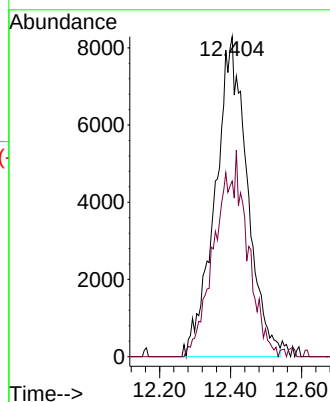
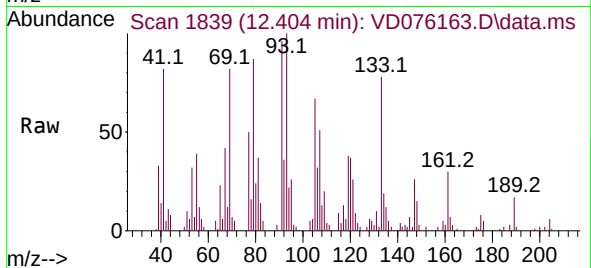
TP8

Tgt Ion:105 Resp: 51970

Ion Ratio Lower Upper

105 100

120 32.5 13.4 40.1



#74

N-ethyl acetate

Concen: 7.501 ug/l

RT: 12.310 min Scan# 1823

Delta R.T. 0.076 min

Lab File: VD076163.D

Acq: 19 May 2023 18:39

Tgt Ion: 43 Resp: 636

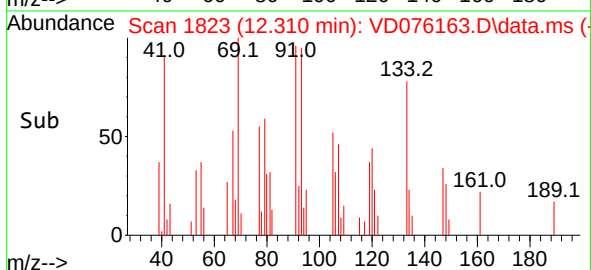
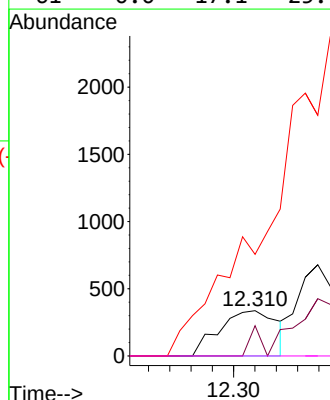
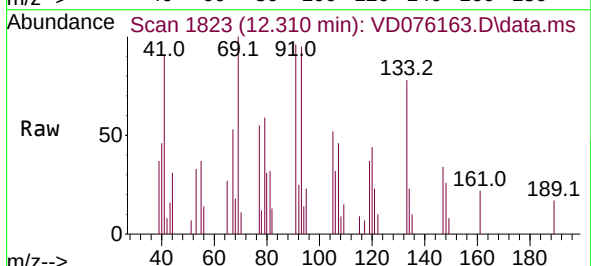
Ion Ratio Lower Upper

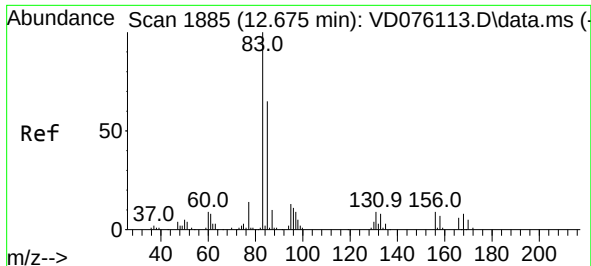
43 100

70 12.4 31.0 46.4#

55 0.0 18.6 28.0#

61 0.0 17.1 25.7#

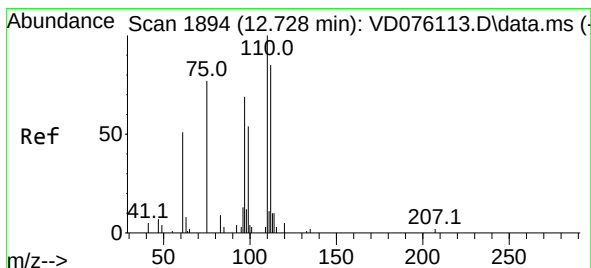
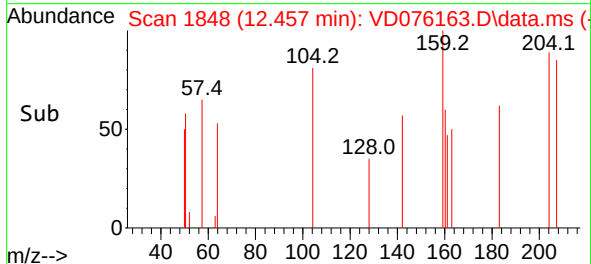
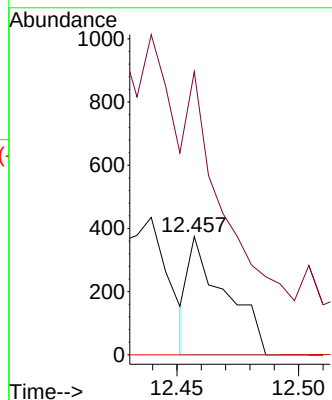
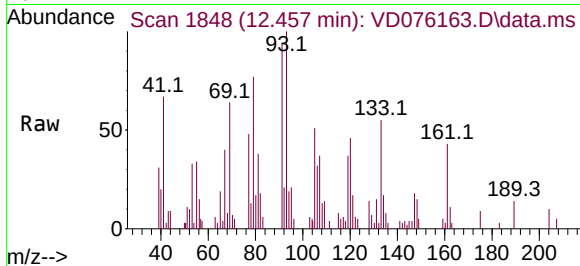




#75
1,1,2,2-Tetrachloroethane
Concen: 3.861 ug/l
RT: 12.457 min Scan# 1848
Delta R.T. -0.218 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

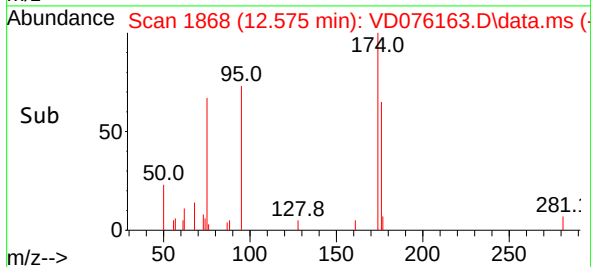
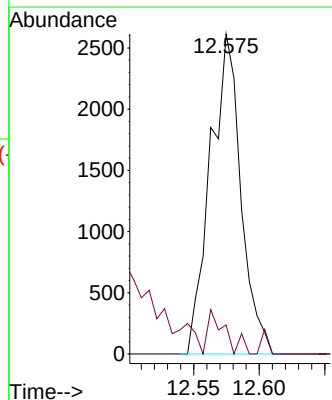
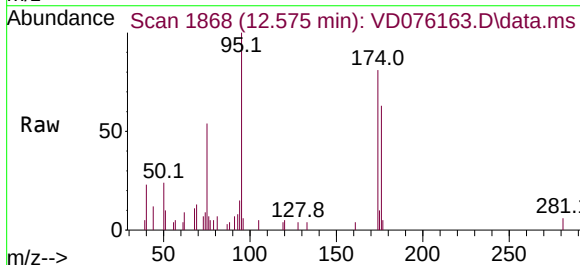
Instrument :
MSVOA_D
ClientSampleId :
TP8

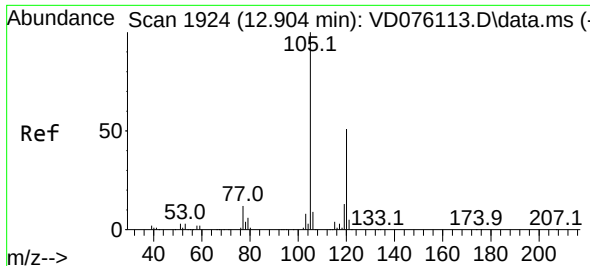
Tgt Ion: 83 Resp: 395
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.2#
85 0.0 33.6 100.6#



#76
1,2,3-Trichloropropane
Concen: 67.174 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.153 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion: 75 Resp: 4230
Ion Ratio Lower Upper
75 100
77 8.0 0.0 0.0#

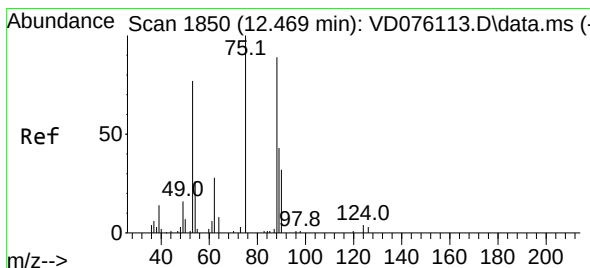
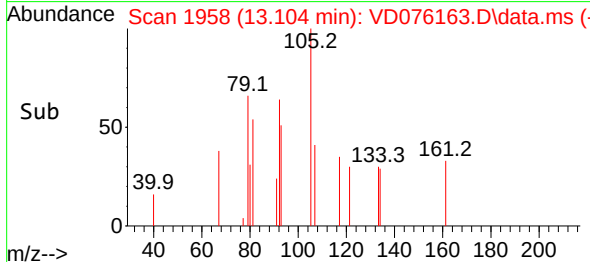
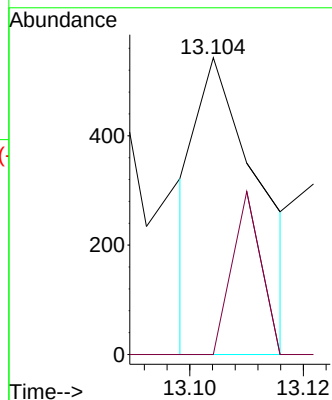
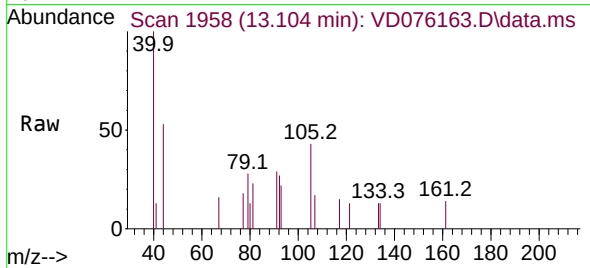




#80
 1,3,5-Trimethylbenzene
 Concen: 1.031 ug/l
 RT: 13.104 min Scan# 1958
 Delta R.T. 0.200 min
 Lab File: VD076163.D
 Acq: 19 May 2023 18:39

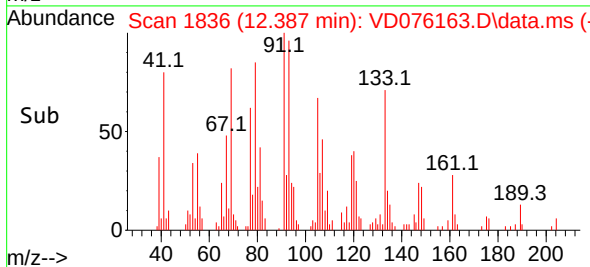
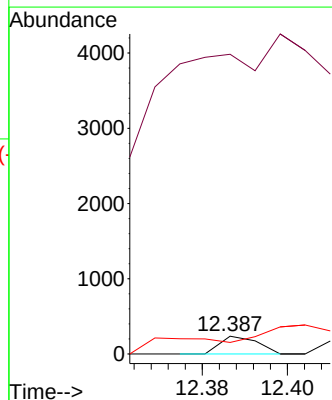
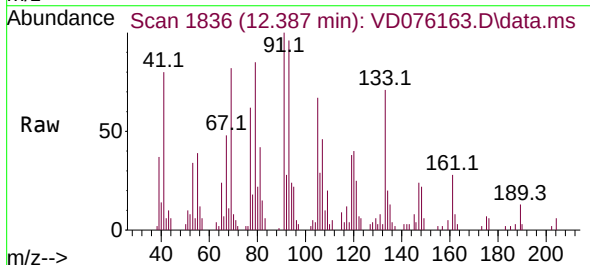
Instrument :
 MSVOA_D
 ClientSampleId :
 TP8

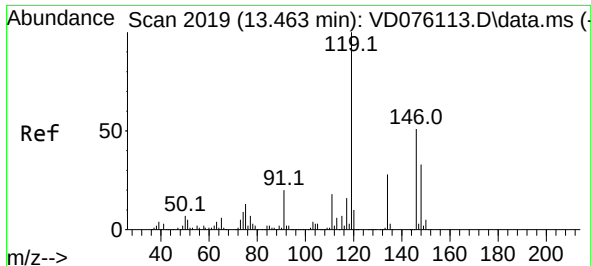
Tgt Ion:105 Resp: 407
 Ion Ratio Lower Upper
 105 100
 120 25.8 24.3 72.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 4.831 ug/l
 RT: 12.387 min Scan# 1836
 Delta R.T. -0.088 min
 Lab File: VD076163.D
 Acq: 19 May 2023 18:39

Tgt Ion: 75 Resp: 145
 Ion Ratio Lower Upper
 75 100
 53 19051.0 90.5 135.7#
 89 404.1 40.2 60.4#

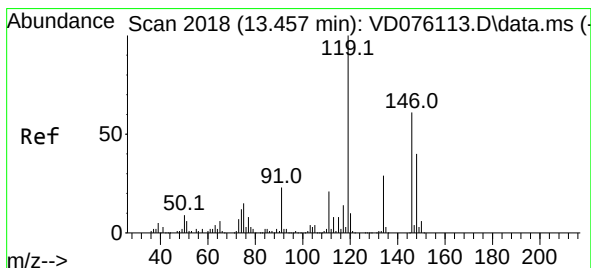
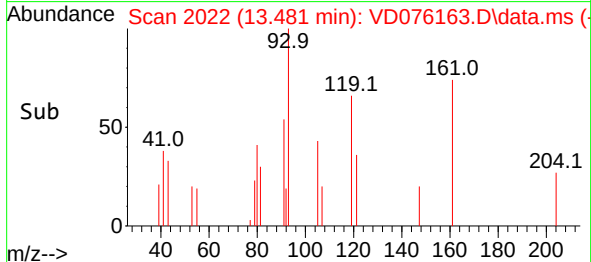
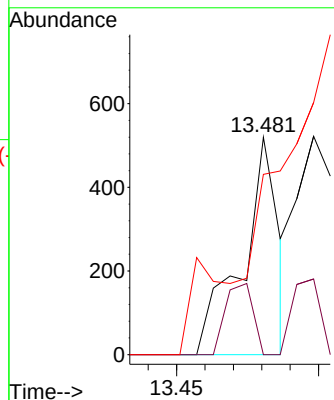
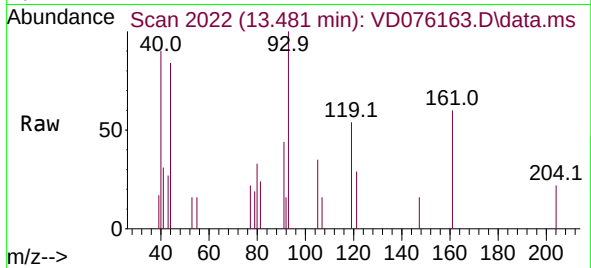




#86
p-Isopropyltoluene
Concen: 1.096 ug/l
RT: 13.481 min Scan# 2022
Delta R.T. 0.018 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

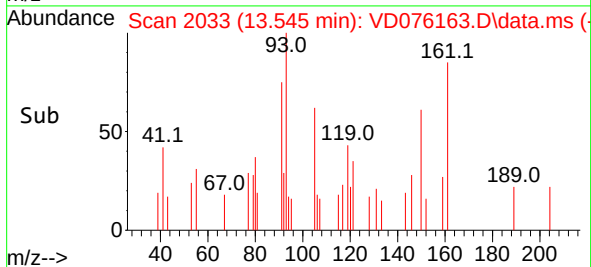
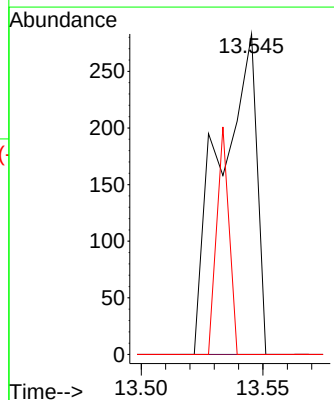
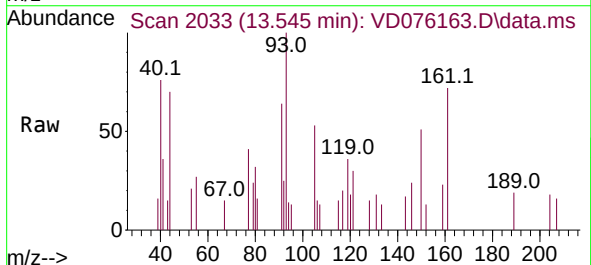
Instrument :
MSVOA_D
ClientSampleId :
TP8

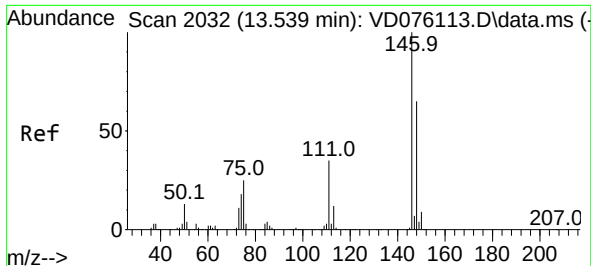
Tgt Ion:119 Resp: 466
Ion Ratio Lower Upper
119 100
134 24.7 13.1 39.3
91 0.0 12.4 37.4#



#87
1,3-Dichlorobenzene
Concen: 1.151 ug/l
RT: 13.545 min Scan# 2033
Delta R.T. 0.082 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion:146 Resp: 297
Ion Ratio Lower Upper
146 100
111 0.0 19.8 59.3#
148 23.9 31.0 93.0#

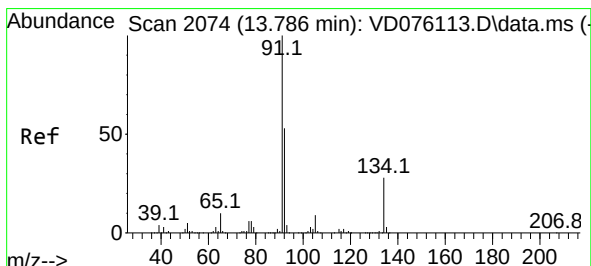
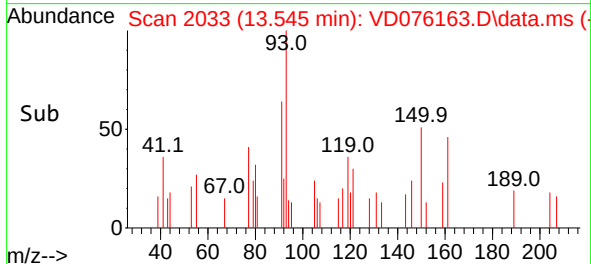
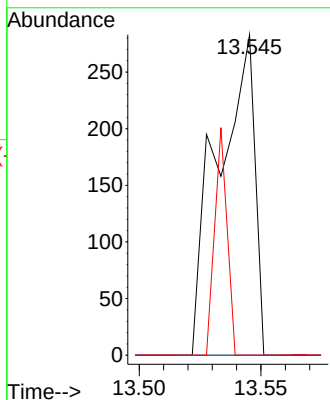
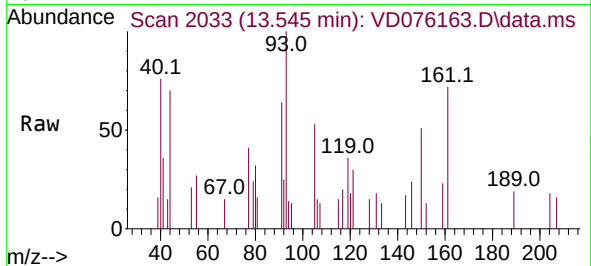




#88
1,4-Dichlorobenzene
Concen: 1.163 ug/l
RT: 13.545 min Scan# 2032
Delta R.T. 0.006 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

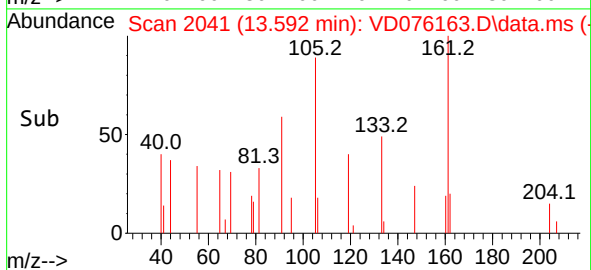
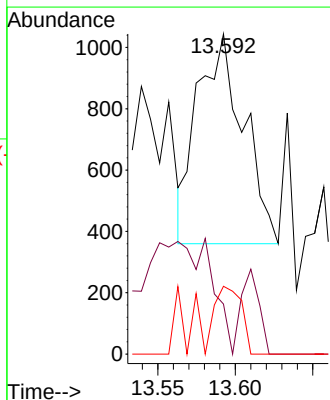
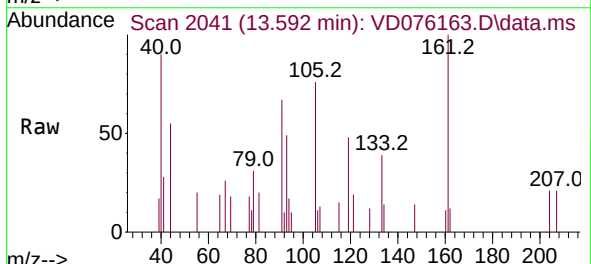
Instrument :
MSVOA_D
ClientSampleId :
TP8

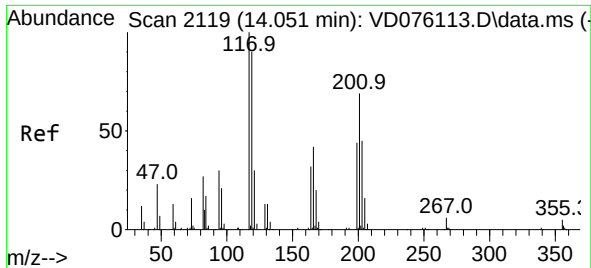
Tgt Ion:146 Resp: 297
Ion Ratio Lower Upper
146 100
111 0.0 19.6 58.8#
148 23.9 31.7 95.1#



#89
n-Butylbenzene
Concen: 3.523 ug/l
RT: 13.592 min Scan# 2041
Delta R.T. -0.200 min
Lab File: VD076163.D
Acq: 19 May 2023 18:39

Tgt Ion: 91 Resp: 1412
Ion Ratio Lower Upper
91 100
92 68.3 26.2 78.5
134 19.1 12.7 38.0





#90
 Hexachloroethane
 Concen: 9.568 ug/l
 RT: 14.057 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VD076163.D
 Acq: 19 May 2023 18:39

Instrument :
 MSVOA_D
 ClientSampleId :
 TP8

Tgt Ion:117 Resp: 837
 Ion Ratio Lower Upper
 117 100
 201 0.0 34.5 103.6#

