

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062923\
 Data File : VD076640.D
 Acq On : 29 Jun 2023 15:56
 Operator : KP/SY
 Sample : 03458-16RE
 Misc : 5.12G/10.0ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 A46M9RE

Quant Time: Jun 30 01:15:59 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	0.000	114	0	0.000	ug/L	-8.78
28) Chlorobenzene-d5	11.593	117	173	25.000	ug/L	# 0.01
58) 1,4-Dichlorobenzene-d4	13.287	152	259	25.000	ug/L	-0.24
System Monitoring Compounds						
4) Vinyl Chloride-d3	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.000%#
7) Chloroethane-d5	0.000	69	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.000%#
11) 1,1-Dichloroethene-d2	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	45 - 110	Recovery	=	0.000%#
21) 2-Butanone-d5	7.034	46	137	0.000	ug/L	0.05
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
24) Chloroform-d	0.000	84	0	0.000	ug/L	
Spiked Amount	25.000	Range	40 - 150	Recovery	=	0.000%#
26) 1,2-Dichloroethane-d4	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.000%#
32) Benzene-d6	0.000	84	0	0.000	ug/L	
Spiked Amount	25.000	Range	20 - 135	Recovery	=	0.000%#
36) 1,2-Dichloropropane-d6	9.222	67	354	104.796	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	419.200%#
41) Toluene-d8	10.275	98	116	11.838	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	47.360%
43) trans-1,3-Dichloroprop...	10.528	79	281	199.998	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	800.000%#
47) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
56) 1,1,2,2-Tetrachloroeth...	12.604	84	223	92.791	ug/L	-0.05
Spiked Amount	25.000	Range	45 - 120	Recovery	=	371.160%#
66) 1,2-Dichlorobenzene-d4	13.916	152	134	14.115	ug/L	0.10
Spiked Amount	25.000	Range	75 - 120	Recovery	=	56.480%#
Target Compounds						Qvalue
29) Cyclohexane	8.069	56	72	15.651	ug/L #	1
34) Trichloroethene	9.022	95	124	42.159	ug/L #	4
35) Methylcyclohexane	9.263	83	113	23.824	ug/L #	1
38) Bromodichloromethane	9.581	83	224	62.914	ug/L #	26
40) 4-Methyl-2-pentanone	10.157	43	70	36.047	ug/L #	44
42) Toluene	10.328	91	327	26.725	ug/L #	23
45) 1,1,2-Trichloroethane	10.740	97	455	212.502	ug/L #	46
48) 2-Hexanone	10.928	43	332	249.628	ug/L #	43
49) Dibromochloromethane	11.193	129	125	51.371	ug/L	78
50) 1,2-Dibromoethane	11.175	107	694	333.948	ug/L #	1
51) Chlorobenzene	11.669	112	163	21.338	ug/L #	9
52) Ethylbenzene	11.622	91	423	32.074	ug/L	85
53) m,p-Xylene	11.787	106	256	49.394	ug/L	83
54) o-Xylene	12.098	106	55	11.145	ug/L	76
57) 1,1,2,2-Tetrachloroethane	12.687	83	587	239.884	ug/L #	55
59) Bromoform	12.263	173	134	28.901	ug/L #	89
60) Isopropylbenzene	12.410	105	283	7.144	ug/L #	1
61) 1,2,3-Trichloropropane	12.804	75	1380	274.546	ug/L	92
62) 1,3,5-Trimethylbenzene	12.816	105	566	17.858	ug/L	98

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Quant Title : SFAM01.0
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Response via : Initial Calibration

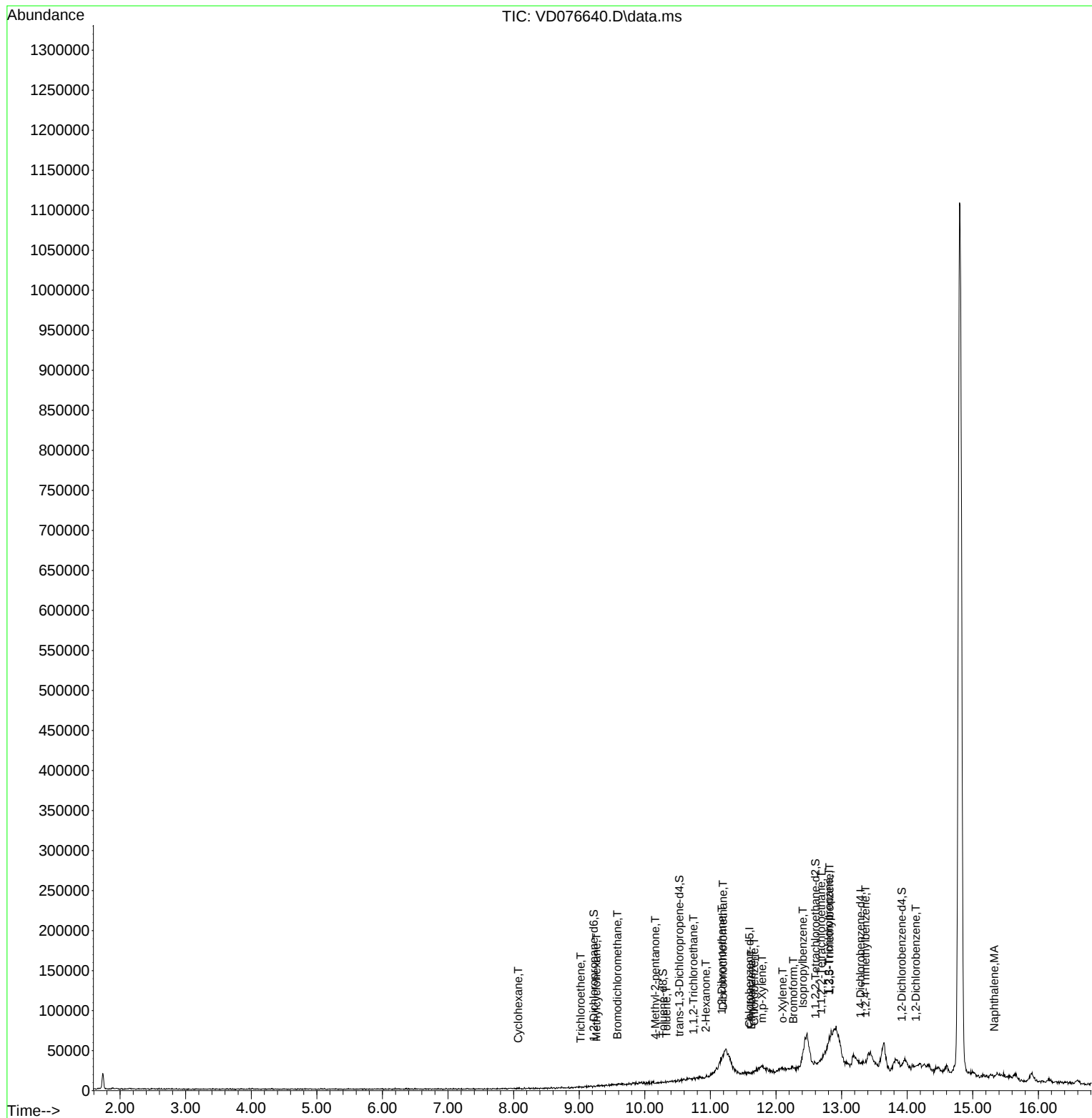
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	13.363	105	582	18.608	ug/L	95
67) 1,2-Dichlorobenzene	14.134	146	118	7.516	ug/L #	1
71) Naphthalene	15.328	128	141	7.041	ug/L #	1

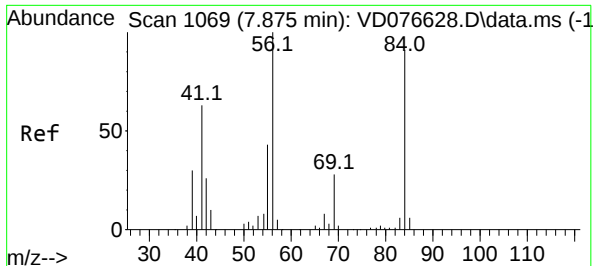
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#29

Cyclohexane

Concen: 15.651 ug/L

RT: 8.069 min Scan# 1102

Delta R.T. 0.194 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

Instrument :

MSVOA_D

ClientSampleId :

A46M9RE

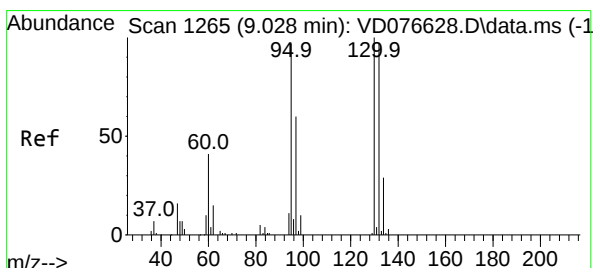
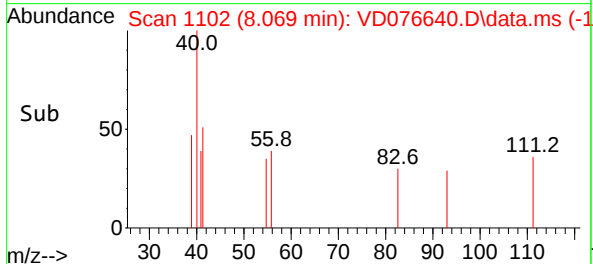
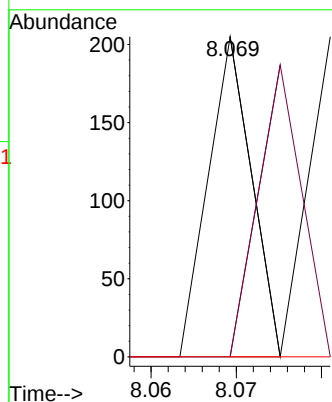
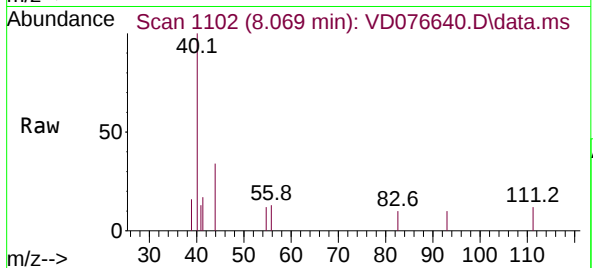
Tgt Ion: 56 Resp: 72

Ion Ratio Lower Upper

56 100

69 206.9 23.4 35.0#

84 0.0 66.3 99.5#



#34

Trichloroethene

Concen: 42.159 ug/L

RT: 9.022 min Scan# 1264

Delta R.T. -0.006 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

Tgt Ion: 95 Resp: 124

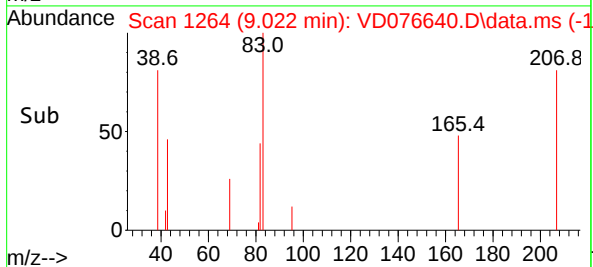
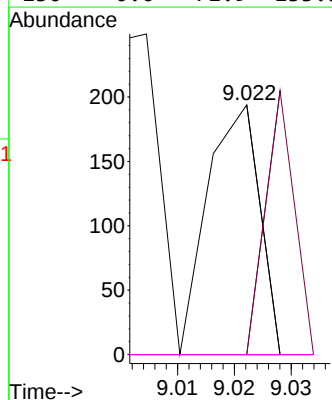
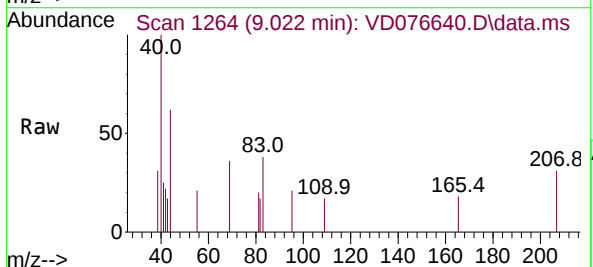
Ion Ratio Lower Upper

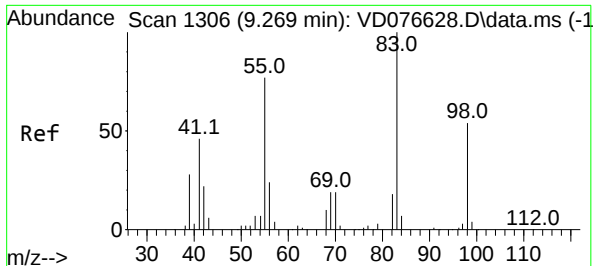
95 100

97 0.0 43.1 80.1#

132 0.0 71.8 133.4#

130 0.0 71.9 133.5#





#35

Methylcyclohexane

Concen: 23.824 ug/L

RT: 9.263 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

Instrument :

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ClientSampleId :

A46M9RE

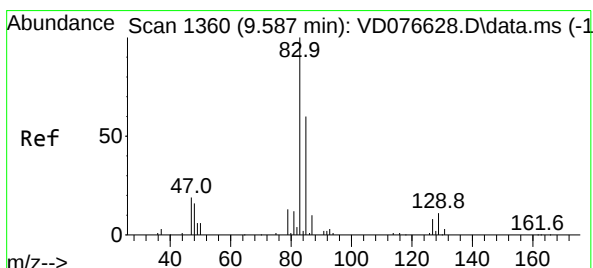
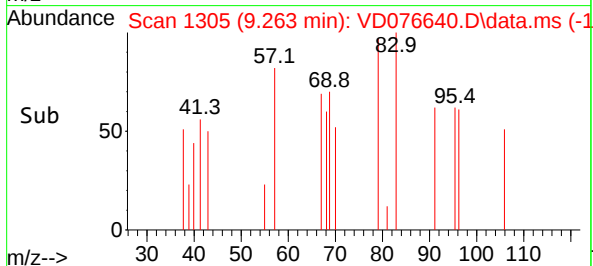
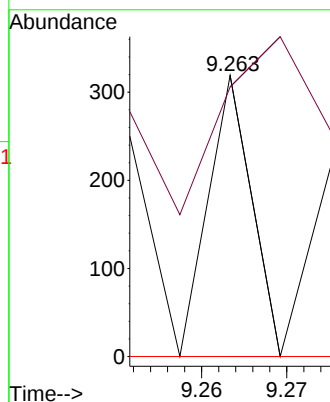
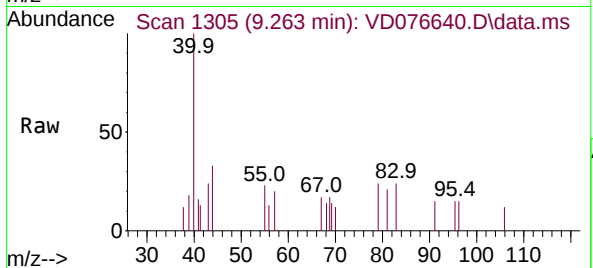
Tgt Ion: 83 Resp: 113

Ion Ratio Lower Upper

83 100

55 176.1 59.8 89.6#

98 0.0 37.8 56.6#



#38

Bromodichloromethane

Concen: 62.914 ug/L

RT: 9.581 min Scan# 1359

Delta R.T. 0.000 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

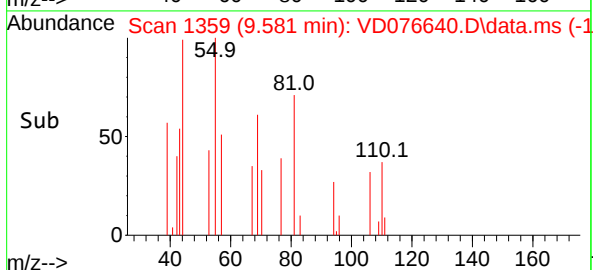
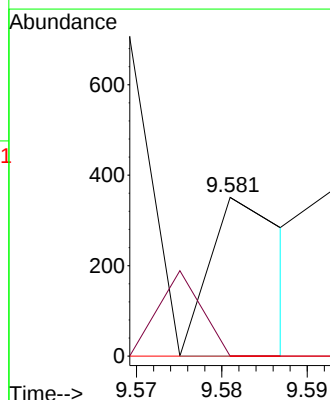
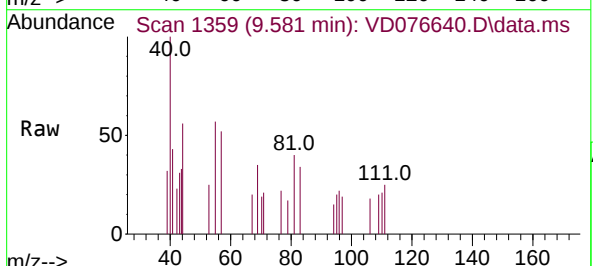
Tgt Ion: 83 Resp: 224

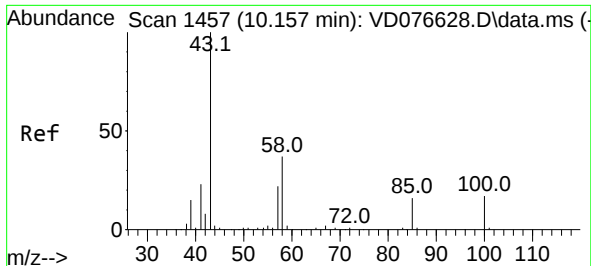
Ion Ratio Lower Upper

83 100

85 0.0 43.9 81.5#

127 0.0 6.6 9.8#





#40

4-Methyl-2-pentanone

Concen: 36.047 ug/L

RT: 10.157 min Scan# 1457

Delta R.T. 0.000 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

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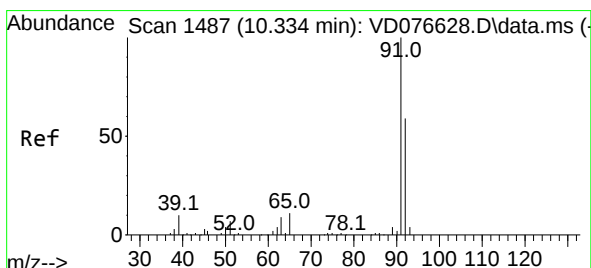
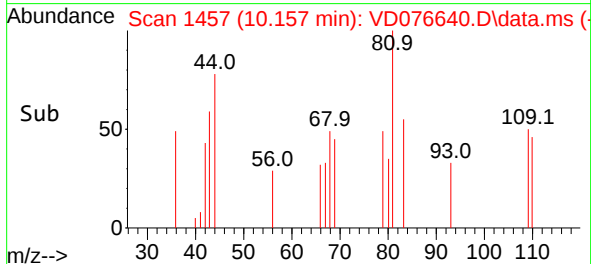
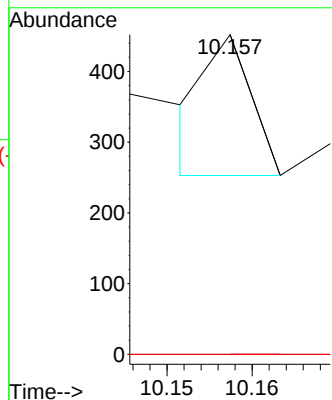
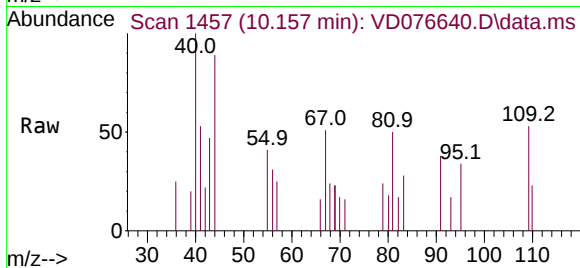
Tgt Ion: 43 Resp: 70

Ion Ratio Lower Upper

43 100

58 0.0 30.7 46.1#

100 0.0 11.0 16.4#



#42

Toluene

Concen: 26.725 ug/L

RT: 10.328 min Scan# 1486

Delta R.T. -0.006 min

Lab File: VD076640.D

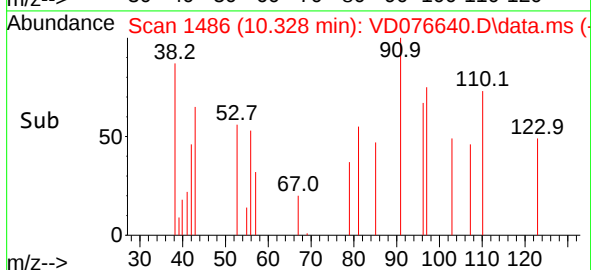
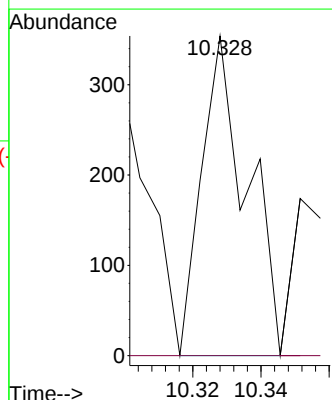
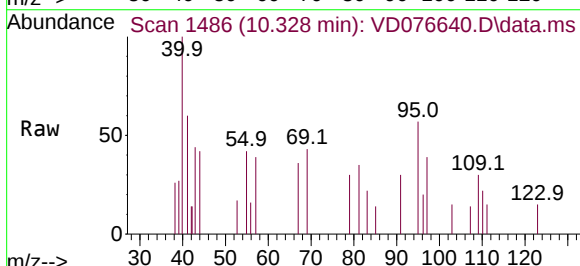
Acq: 29 Jun 2023 15:56

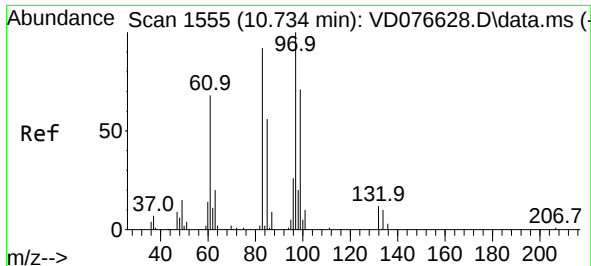
Tgt Ion: 91 Resp: 327

Ion Ratio Lower Upper

91 100

92 0.0 39.3 73.1#

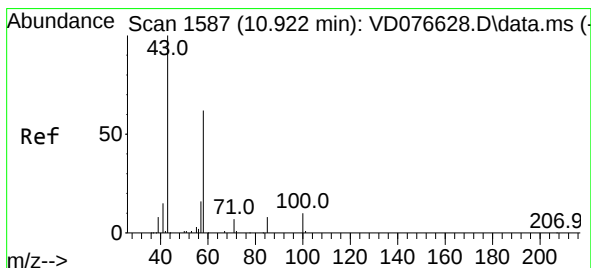
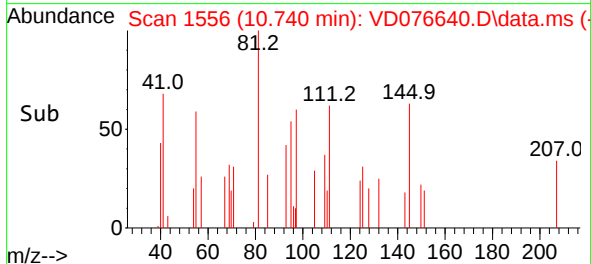
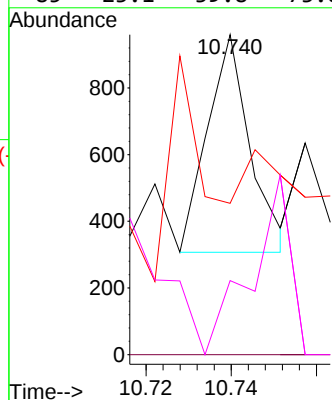
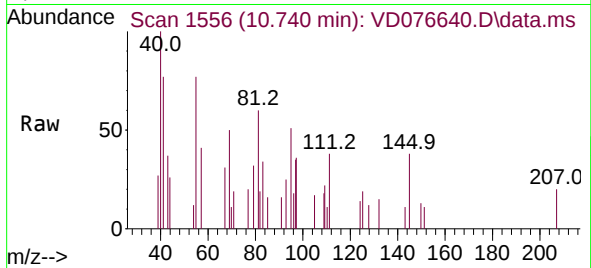




#45
1,1,2-Trichloroethane
Concen: 212.502 ug/L
RT: 10.740 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VD076640.D
Acq: 29 Jun 2023 15:56

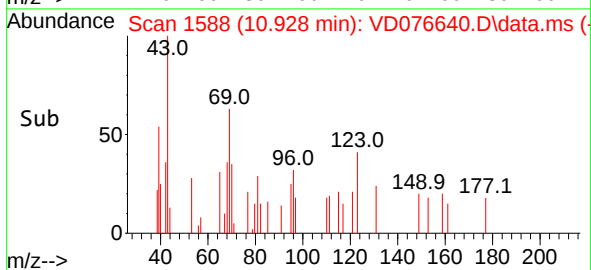
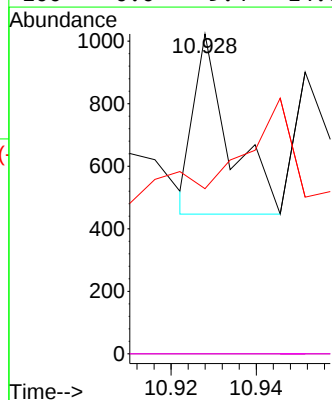
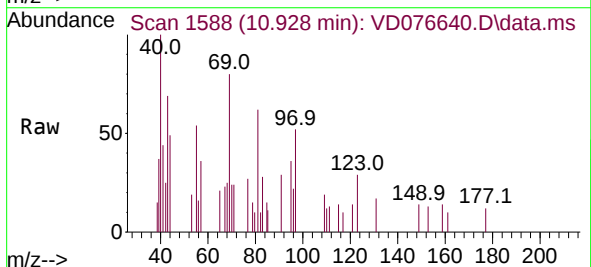
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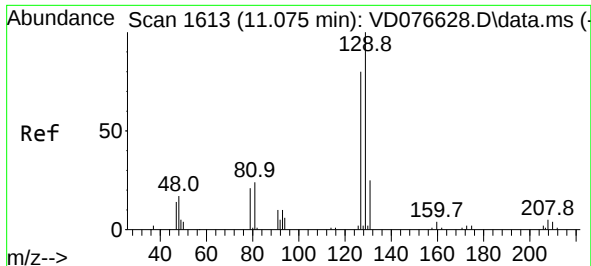
Tgt Ion: 97	Resp: 455
Ion Ratio	Lower Upper
97 100	
99 0.0	41.9 77.9#
83 47.3	59.2 110.0#
85 23.1	39.8 73.8#



#48
2-Hexanone
Concen: 249.628 ug/L
RT: 10.928 min Scan# 1588
Delta R.T. 0.006 min
Lab File: VD076640.D
Acq: 29 Jun 2023 15:56

Tgt Ion: 43	Resp: 332
Ion Ratio	Lower Upper
43 100	
58 0.0	42.9 64.3#
57 24.1	13.7 20.5#
100 0.0	9.4 14.0#

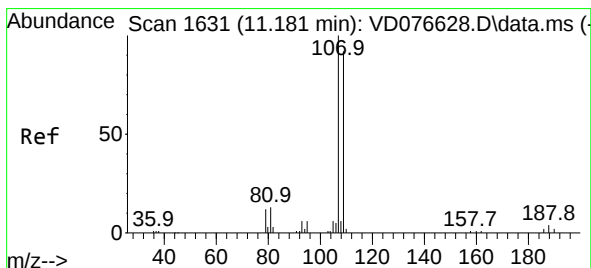
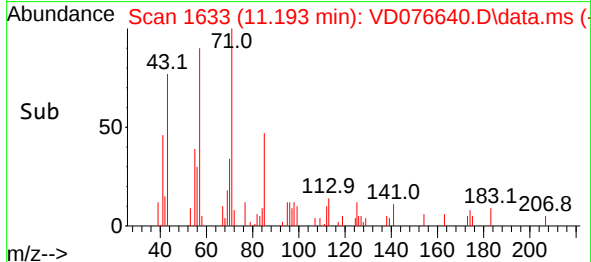
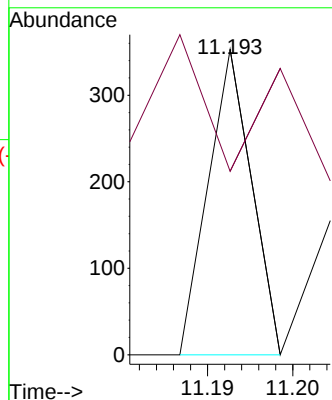
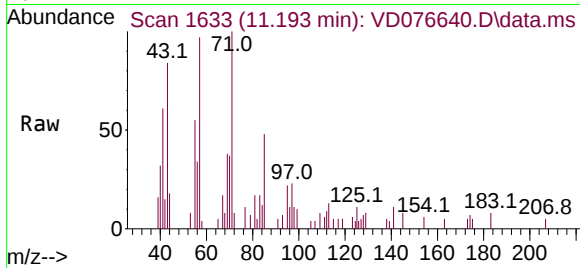




#49
Dibromochloromethane
Concen: 51.371 ug/L
RT: 11.193 min Scan# 1633
Delta R.T. 0.118 min
Lab File: VD076640.D
Acq: 29 Jun 2023 15:56

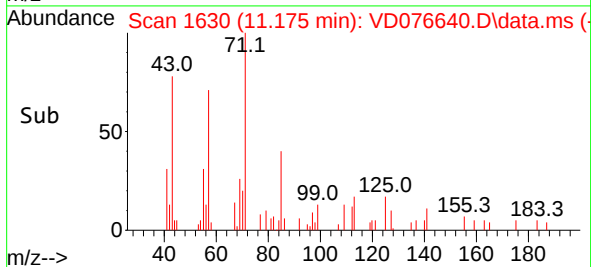
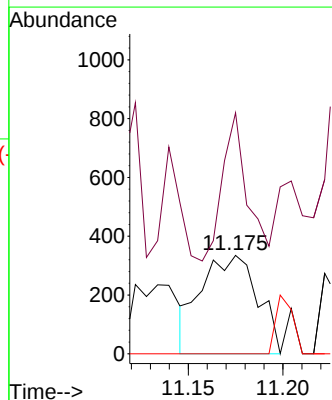
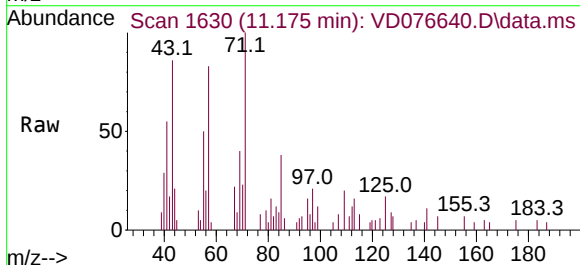
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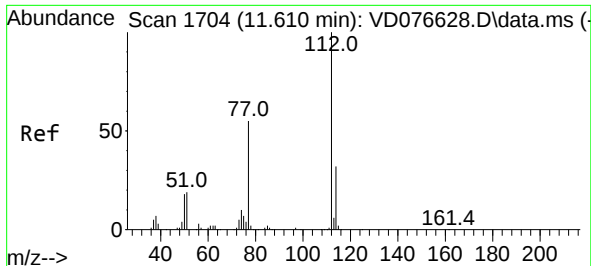
Tgt Ion:129 Resp: 125
Ion Ratio Lower Upper
129 100
127 60.1 55.2 102.6



#50
1,2-Dibromoethane
Concen: 333.948 ug/L
RT: 11.175 min Scan# 1630
Delta R.T. -0.006 min
Lab File: VD076640.D
Acq: 29 Jun 2023 15:56

Tgt Ion:107 Resp: 694
Ion Ratio Lower Upper
107 100
109 244.8 58.8 109.2#
188 0.0 2.9 4.3#

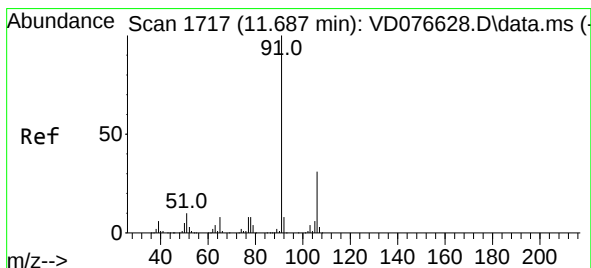
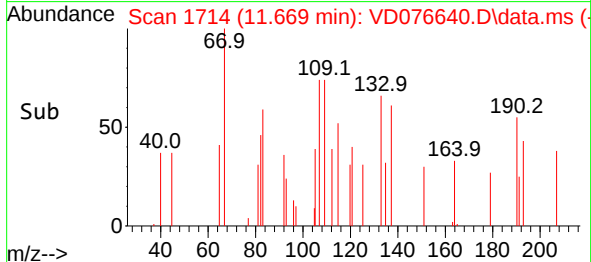
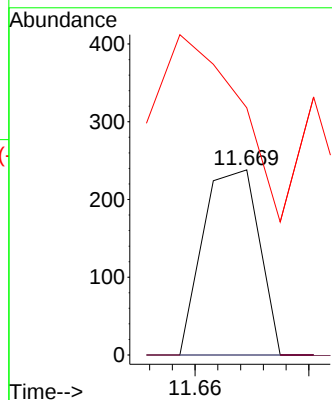
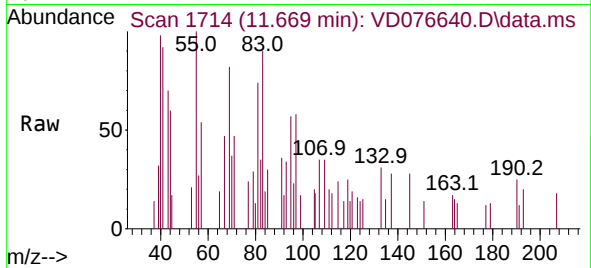




#51
Chlorobenzene
Concen: 21.338 ug/L
RT: 11.669 min Scan# 11
Delta R.T. 0.065 min
Lab File: VD076640.D
Acq: 29 Jun 2023 15:56

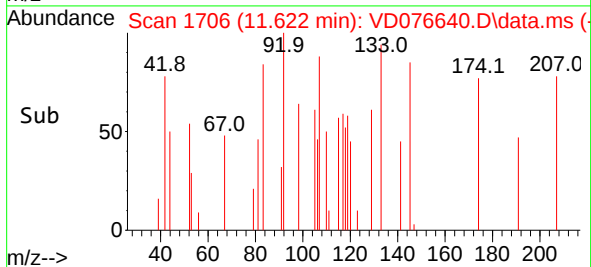
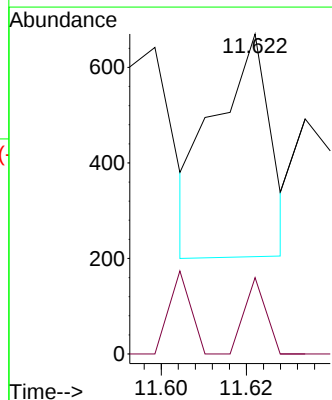
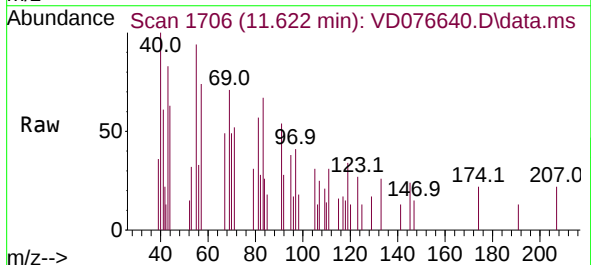
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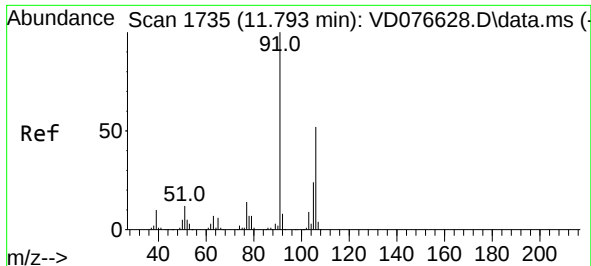
Tgt Ion:112 Resp: 163
Ion Ratio Lower Upper
112 100
114 0.0 21.5 39.9#
77 133.6 43.4 65.2#



#52
Ethylbenzene
Concen: 32.074 ug/L
RT: 11.622 min Scan# 1706
Delta R.T. -0.059 min
Lab File: VD076640.D
Acq: 29 Jun 2023 15:56

Tgt Ion: 91 Resp: 423
Ion Ratio Lower Upper
91 100
106 23.9 22.4 41.6

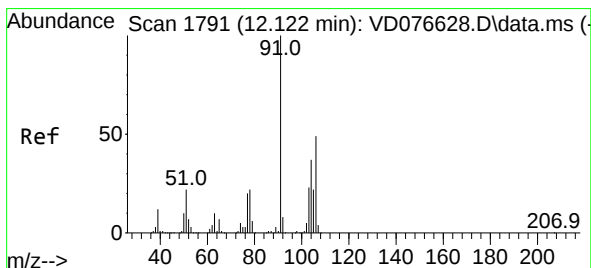
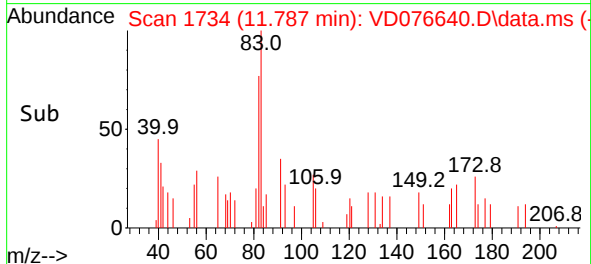
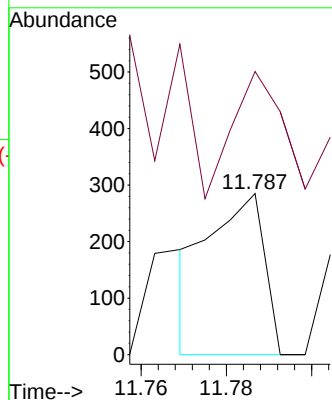
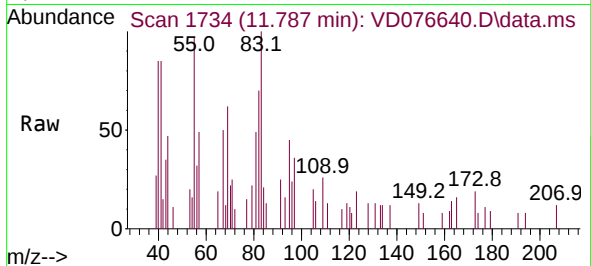




#53
m,p-Xylene
Concen: 49.394 ug/L
RT: 11.787 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VD076640.D
Acq: 29 Jun 2023 15:56

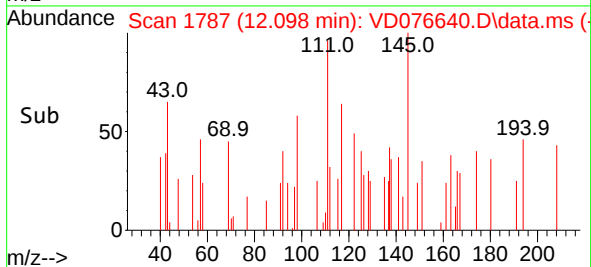
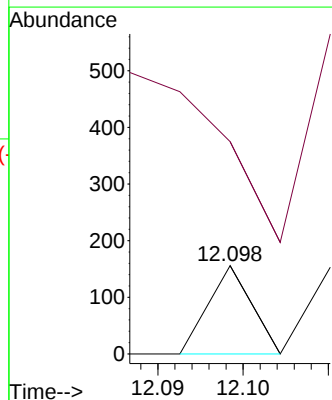
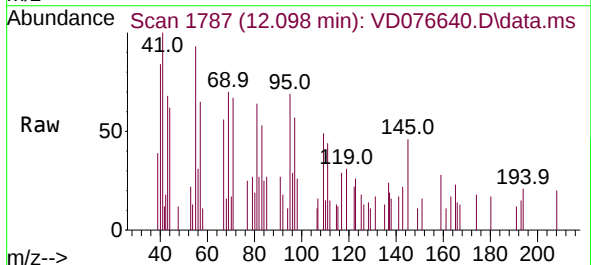
Instrument :
MSVOA_D
ClientSampleId :
A46M9RE

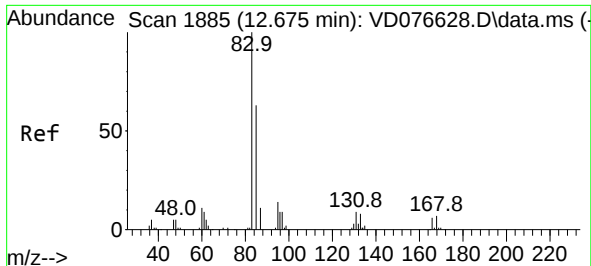
Tgt Ion:106 Resp: 256
Ion Ratio Lower Upper
106 100
91 175.8 141.5 262.9



#54
o-Xylene
Concen: 11.145 ug/L
RT: 12.098 min Scan# 1787
Delta R.T. -0.024 min
Lab File: VD076640.D
Acq: 29 Jun 2023 15:56

Tgt Ion:106 Resp: 55
Ion Ratio Lower Upper
106 100
91 240.4 142.2 264.2





#57

1,1,2,2-Tetrachloroethane

Concen: 239.884 ug/L

RT: 12.687 min Scan# 1885

Delta R.T. 0.012 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

Instrument :

MSVOA_D

ClientSampleId :

A46M9RE

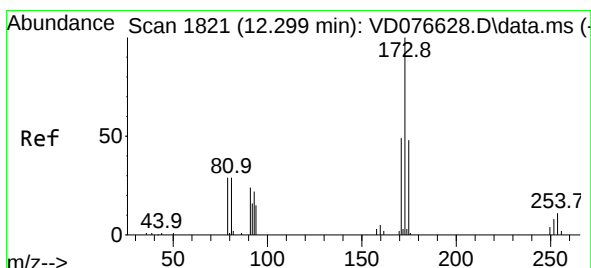
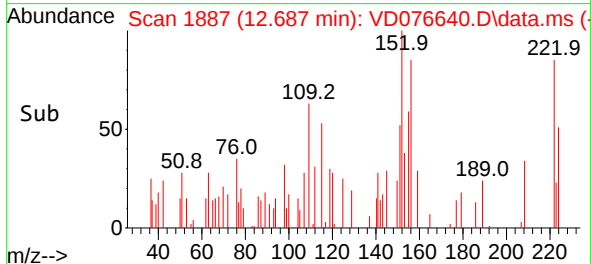
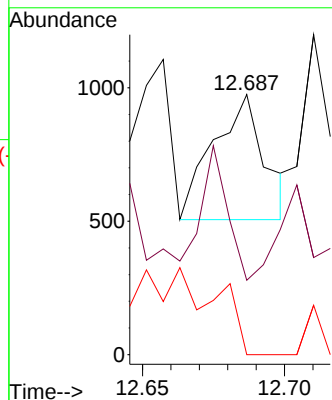
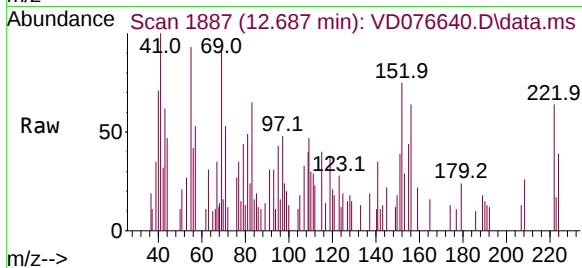
Tgt Ion: 83 Resp: 587

Ion Ratio Lower Upper

83 100

85 28.6 46.3 86.1#

131 0.0 7.0 10.4#



#59

Bromoform

Concen: 28.901 ug/L

RT: 12.263 min Scan# 1815

Delta R.T. -0.035 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

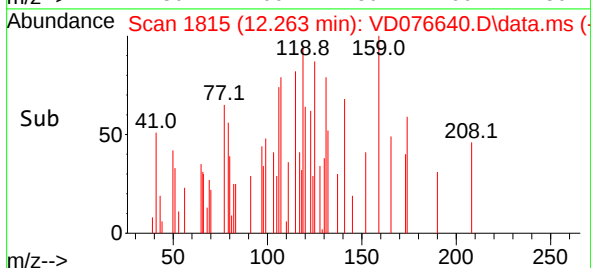
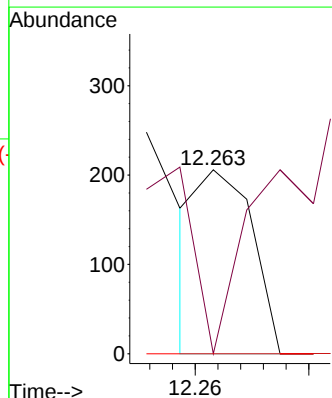
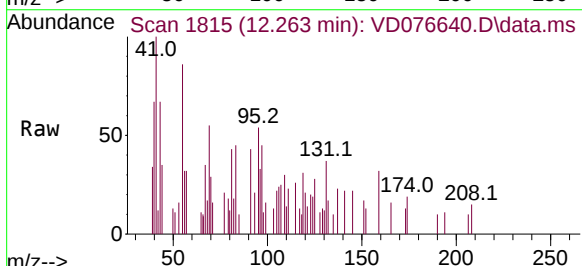
Tgt Ion:173 Resp: 134

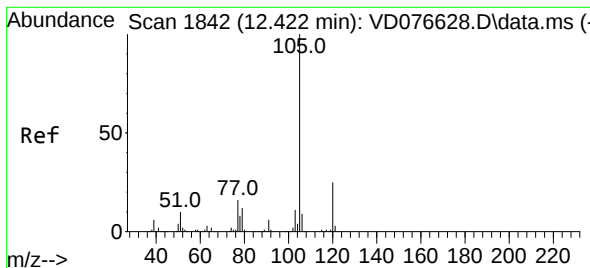
Ion Ratio Lower Upper

173 100

175 55.2 39.0 58.4

254 0.0 5.3 7.9#





#60

Isopropylbenzene

Concen: 7.144 ug/L

RT: 12.410 min Scan# 11

Delta R.T. -0.012 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

Instrument :

MSVOA_D

ClientSampleId :

A46M9RE

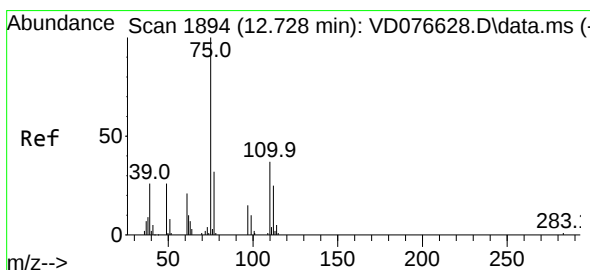
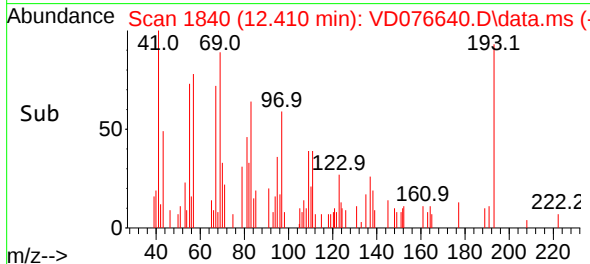
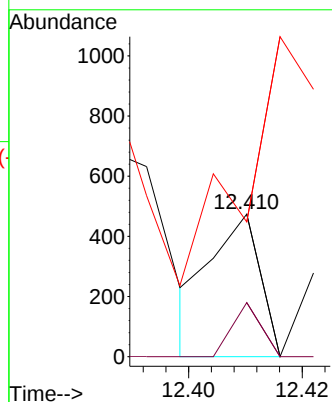
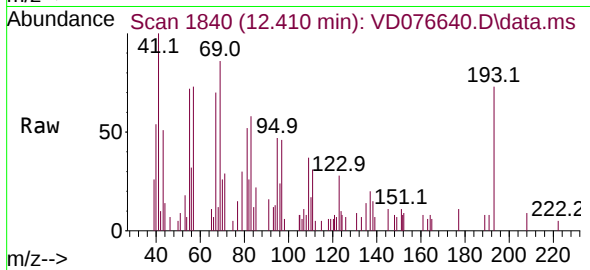
Tgt Ion:105 Resp: 283

Ion Ratio Lower Upper

105 100

120 0.0 21.3 31.9#

77 460.1 12.2 18.4#



#61

1,2,3-Trichloropropane

Concen: 274.546 ug/L

RT: 12.804 min Scan# 1907

Delta R.T. 0.076 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

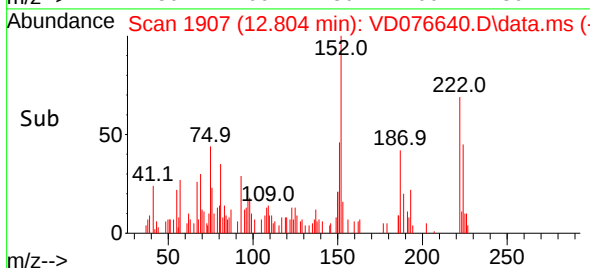
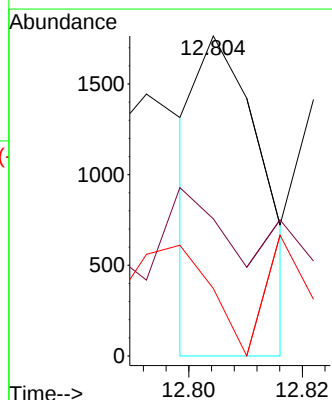
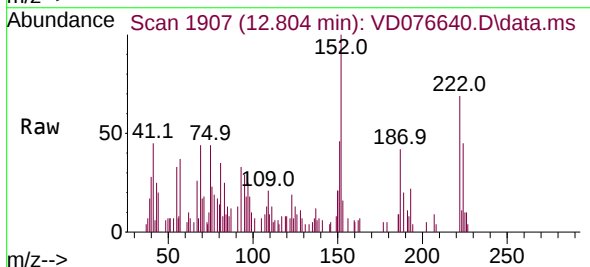
Tgt Ion: 75 Resp: 1380

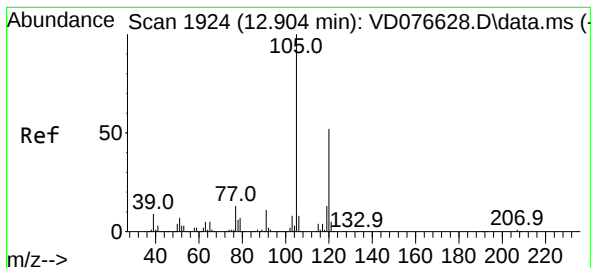
Ion Ratio Lower Upper

75 100

77 31.9 27.2 40.8

110 46.7 31.8 47.6





#62

1,3,5-Trimethylbenzene

Concen: 17.858 ug/L

RT: 12.816 min Scan# 1924

Delta R.T. -0.088 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

Instrument :

MSVOA_D

ClientSampleId :

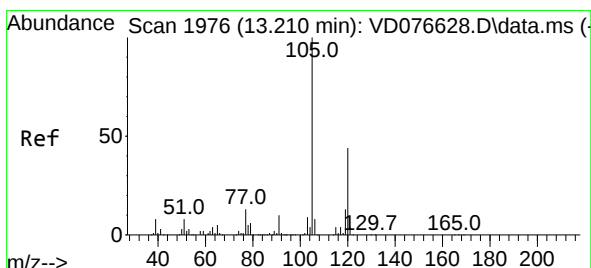
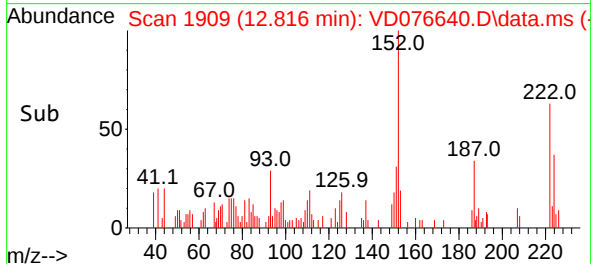
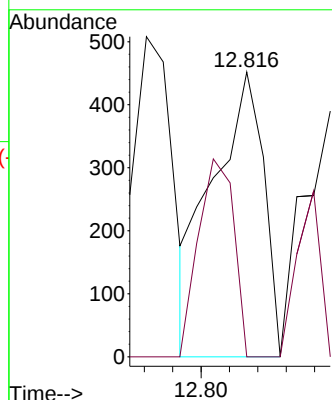
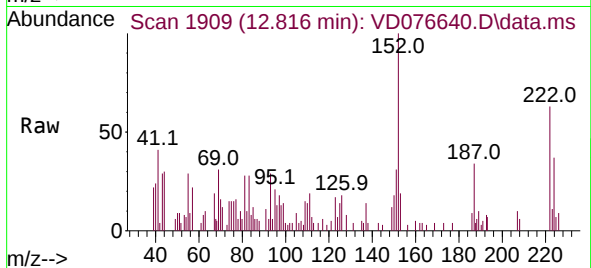
A46M9RE

Tgt Ion:105 Resp: 566

Ion Ratio Lower Upper

105 100

120 48.1 39.8 59.6



#63

1,2,4-Trimethylbenzene

Concen: 18.608 ug/L

RT: 13.363 min Scan# 2002

Delta R.T. 0.153 min

Lab File: VD076640.D

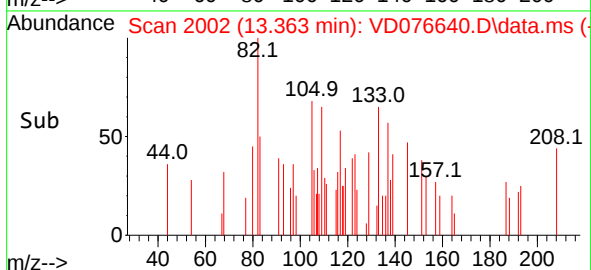
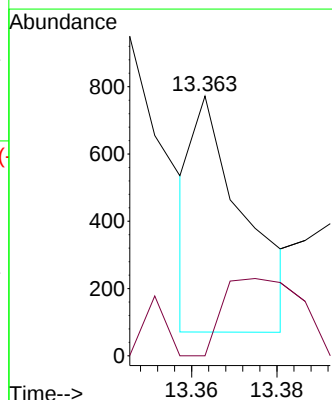
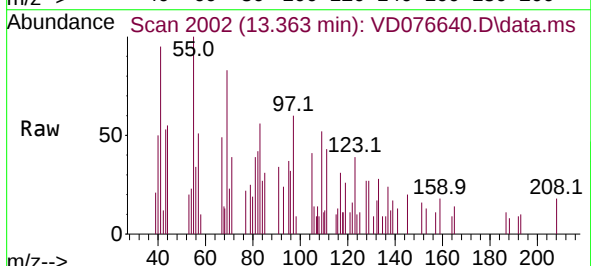
Acq: 29 Jun 2023 15:56

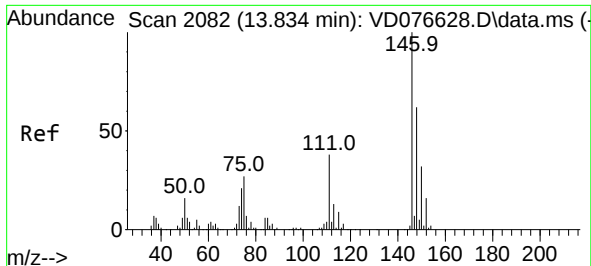
Tgt Ion:105 Resp: 582

Ion Ratio Lower Upper

105 100

120 50.5 37.5 56.3





#67

1,2-Dichlorobenzene

Concen: 7.516 ug/L

RT: 14.134 min Scan# 2133

Delta R.T. 0.306 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

Instrument :

MSVOA_D

ClientSampleId :

A46M9RE

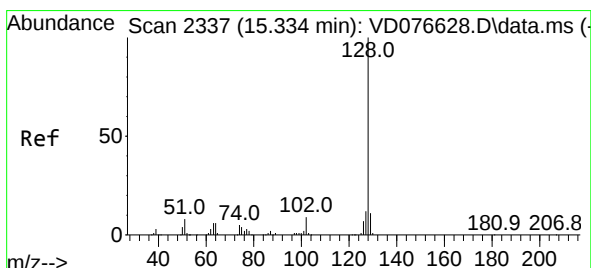
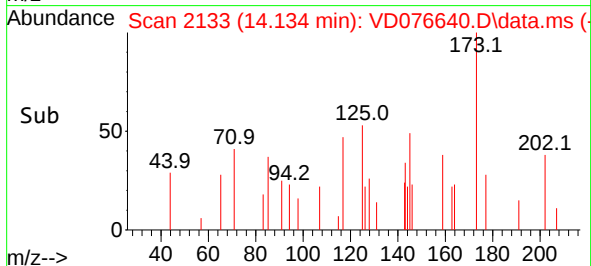
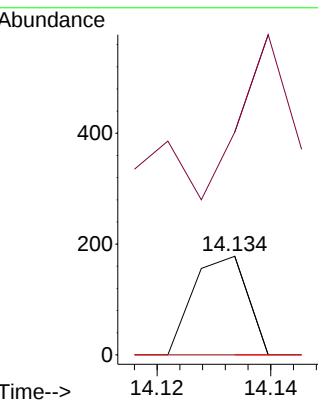
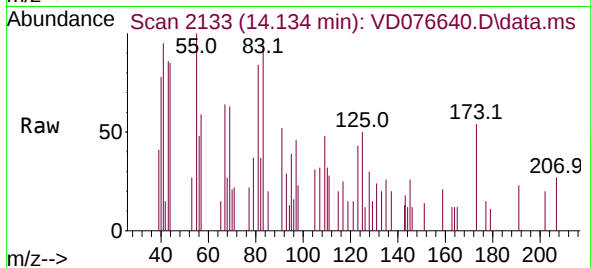
Tgt Ion:146 Resp: 118

Ion Ratio Lower Upper

146 100

111 225.8 31.3 46.9#

148 0.0 51.7 77.5#



#71

Naphthalene

Concen: 7.041 ug/L

RT: 15.328 min Scan# 2336

Delta R.T. -0.006 min

Lab File: VD076640.D

Acq: 29 Jun 2023 15:56

Tgt Ion:128 Resp: 141

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 170.2 8.6 12.8#

