

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD072723\
 Data File : VD076835.D
 Acq On : 27 Jul 2023 15:42
 Operator : KP/SY
 Sample : 03769-08
 Misc : 5.08G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-P39B

Quant Time: Jul 27 15:44:20 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)

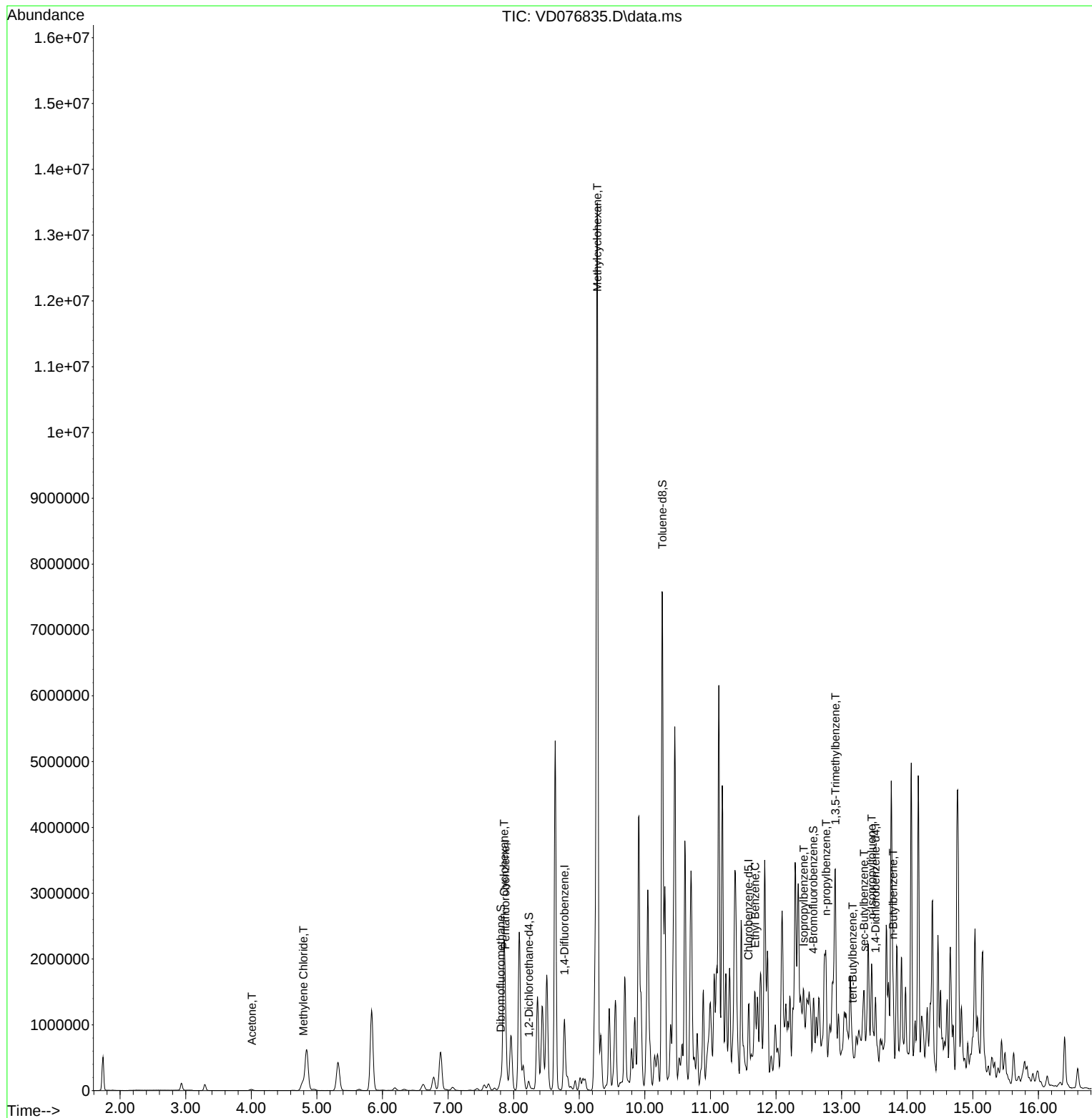
Internal Standards						
1) Pentafluorobenzene	7.875	168	211253	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.775	114	425270	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	430950	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	221290	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	100613	47.817	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.640%		
35) Dibromofluoromethane	7.804	113	123078	46.055	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	92.100%		
50) Toluene-d8	10.269	98	955400	99.934	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	199.860%#		
62) 4-Bromofluorobenzene	12.569	95	281004	90.859	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	181.720%#		
Target Compounds						
16) Acetone	4.011	43	11899	23.679	ug/l	# 54
20) Methylene Chloride	4.793	84	36996	2.600	ug/l	# 86
31) Cyclohexane	7.857	56	729270	235.503	ug/l	# 61
39) Methylcyclohexane	9.275	83	6009243	1490.303	ug/l	97
67) Ethyl Benzene	11.681	91	181995	11.956	ug/l	97
73) Isopropylbenzene	12.422	105	499911	31.137	ug/l	96
78) n-propylbenzene	12.763	91	1134476	58.286	ug/l	96
80) 1,3,5-Trimethylbenzene	12.904	105	694738	53.515	ug/l	95
83) tert-Butylbenzene	13.169	119	52911	4.629	ug/l	83
85) sec-Butylbenzene	13.345	105	481050	27.545	ug/l	# 64
86) p-Isopropyltoluene	13.457	119	671196	46.537	ug/l	95
89) n-Butylbenzene	13.787	91	561438	39.781	ug/l	# 74

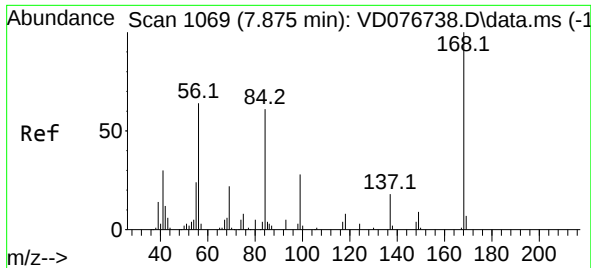
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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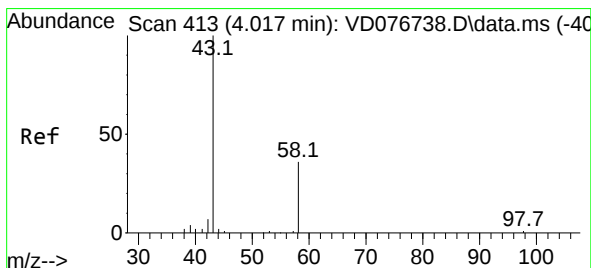
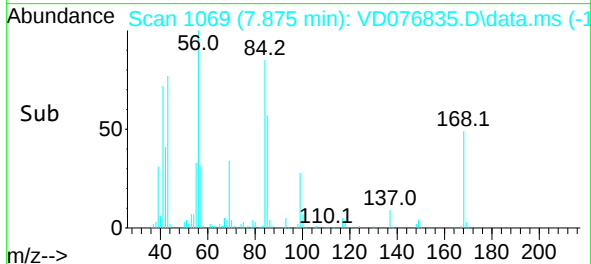
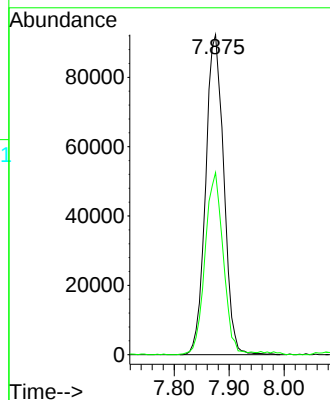
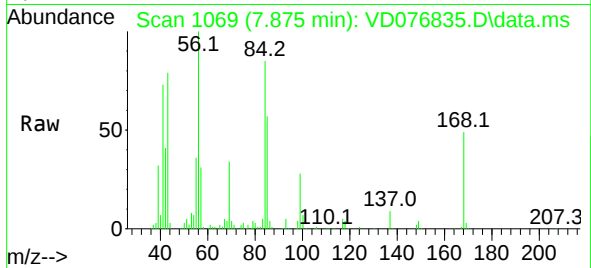




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

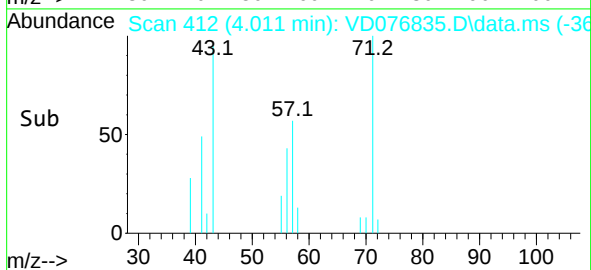
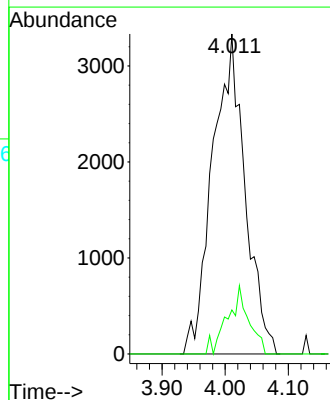
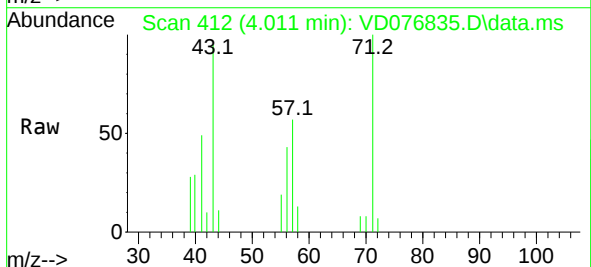
Instrument :
MSVOA_D
ClientSampleId :
B-P39B

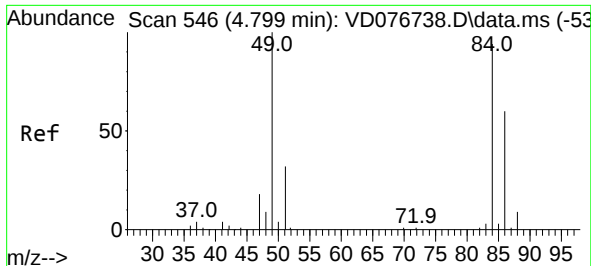
Tgt Ion:168 Resp: 211253
Ion Ratio Lower Upper
168 100
99 56.7 36.7 55.1#



#16
Acetone
Concen: 23.679 ug/l
RT: 4.011 min Scan# 412
Delta R.T. -0.006 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

Tgt Ion: 43 Resp: 11899
Ion Ratio Lower Upper
43 100
58 13.7 34.7 52.1#

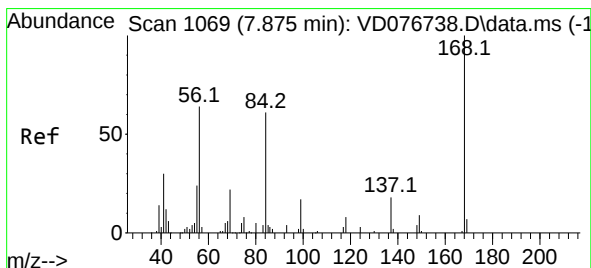
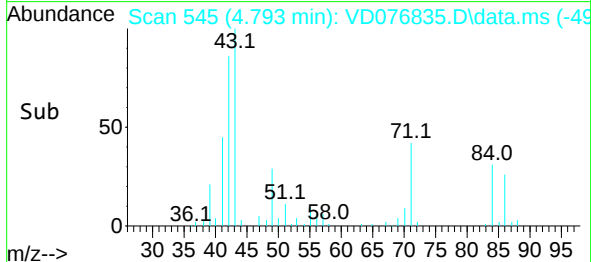
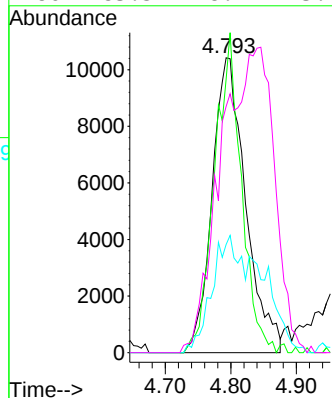
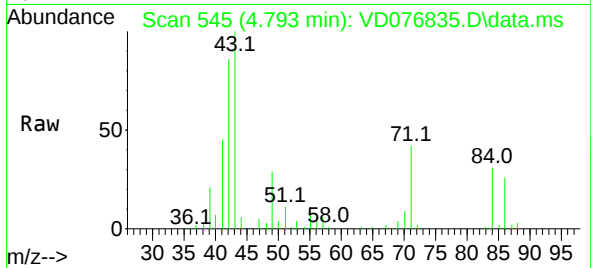




#20
Methylene Chloride
Concen: 2.600 ug/l
RT: 4.793 min Scan# 54
Delta R.T. -0.006 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

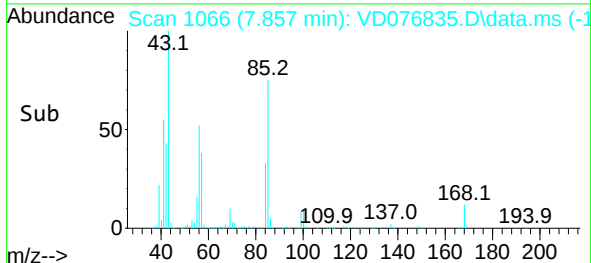
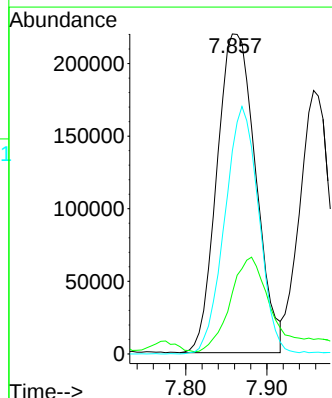
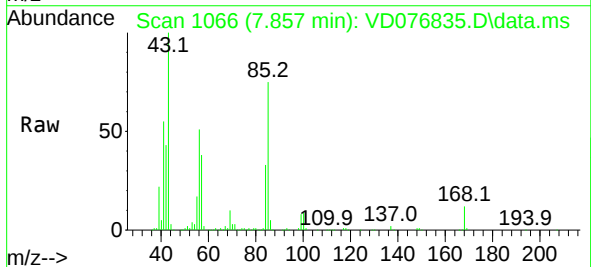
Instrument :
MSVOA_D
ClientSampleId :
B-P39B

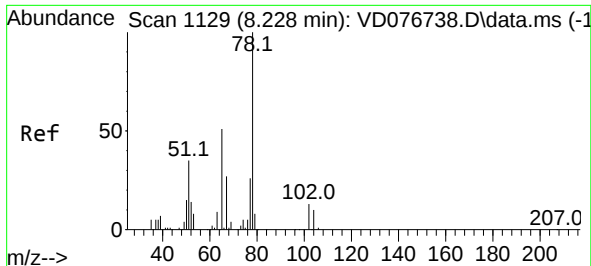
Tgt Ion: 84	Resp: 36996
Ion Ratio	Lower Upper
84 100	
49 92.7	71.4 107.2
51 36.7	24.5 36.7
86 83.5	48.7 73.1#



#31
Cyclohexane
Concen: 235.503 ug/l
RT: 7.857 min Scan# 1066
Delta R.T. -0.018 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

Tgt Ion: 56	Resp: 729270
Ion Ratio	Lower Upper
56 100	
69 17.0	28.6 43.0#
84 63.7	84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 47.817 ug/l

RT: 8.234 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VD076835.D

Acq: 27 Jul 2023 15:42

Instrument :

MSVOA_D

ClientSampleId :

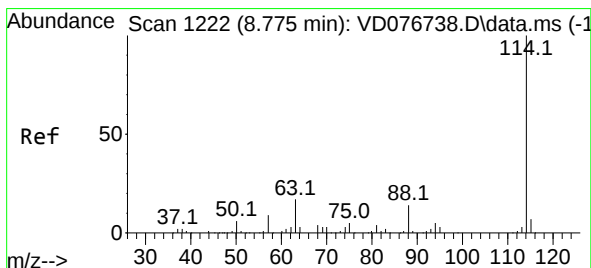
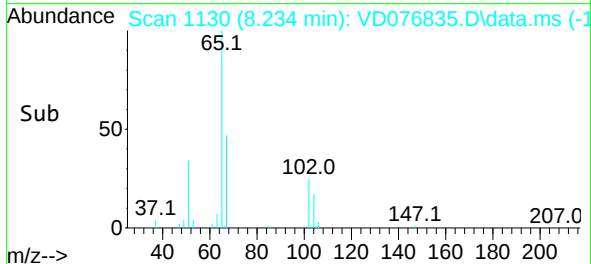
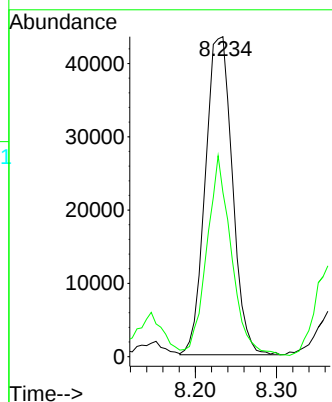
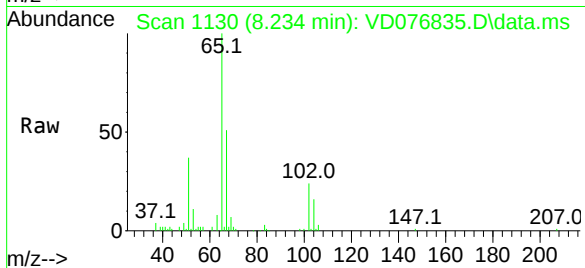
B-P39B

Tgt Ion: 65 Resp: 100613

Ion Ratio Lower Upper

65 100

67 57.1 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: VD076835.D

Acq: 27 Jul 2023 15:42

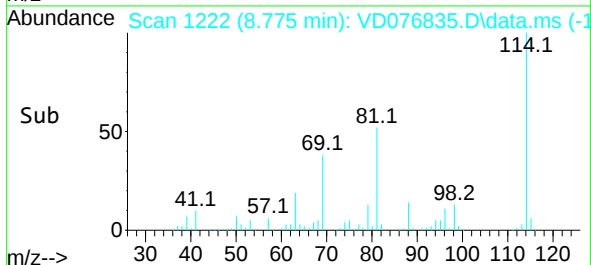
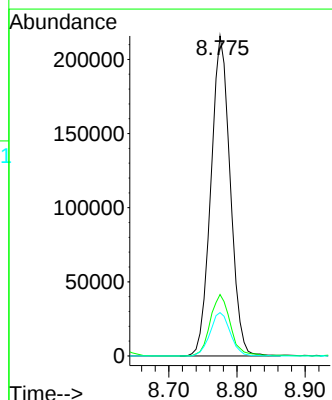
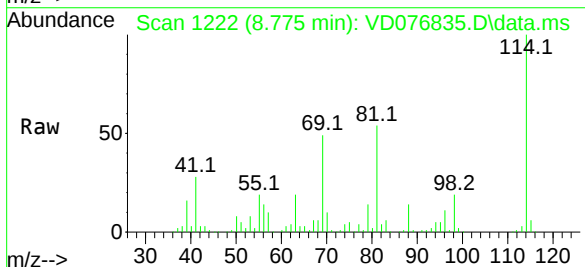
Tgt Ion: 114 Resp: 425270

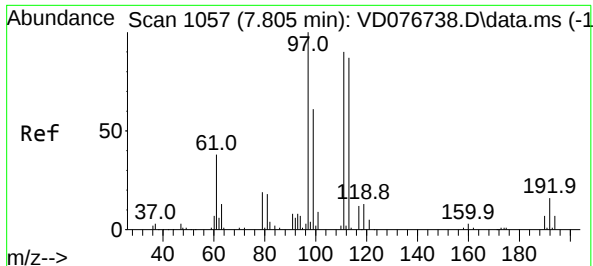
Ion Ratio Lower Upper

114 100

63 19.2 0.0 33.4

88 13.5 0.0 26.2





#35

Dibromofluoromethane

Concen: 46.055 ug/l

RT: 7.804 min Scan# 113

Delta R.T. -0.001 min

Lab File: VD076835.D

Acq: 27 Jul 2023 15:42

Instrument :

MSVOA_D

ClientSampleId :

B-P39B

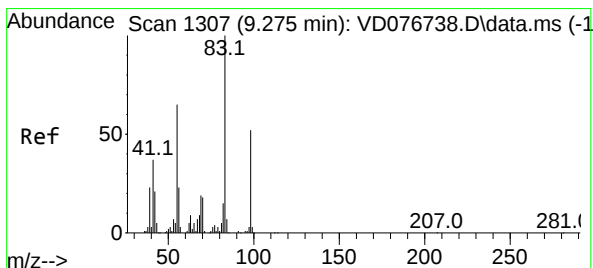
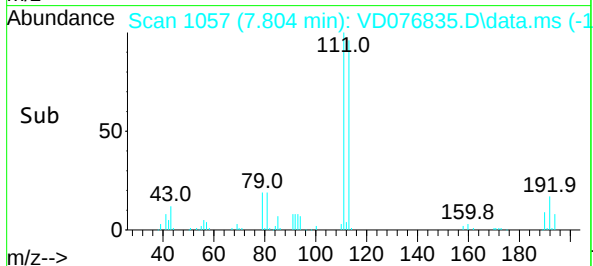
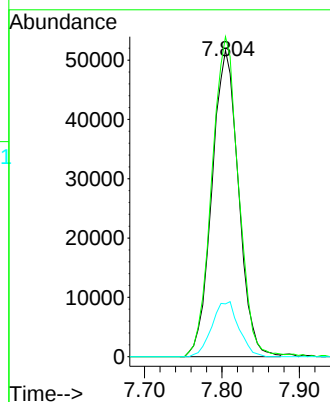
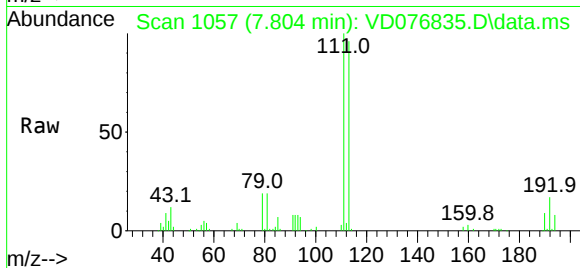
Tgt Ion:113 Resp: 123078

Ion Ratio Lower Upper

113 100

111 105.3 84.7 127.1

192 18.2 16.8 25.2



#39

Methylcyclohexane

Concen: 1490.303 ug/l

RT: 9.275 min Scan# 1307

Delta R.T. 0.000 min

Lab File: VD076835.D

Acq: 27 Jul 2023 15:42

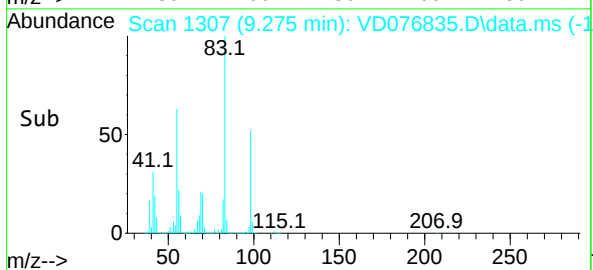
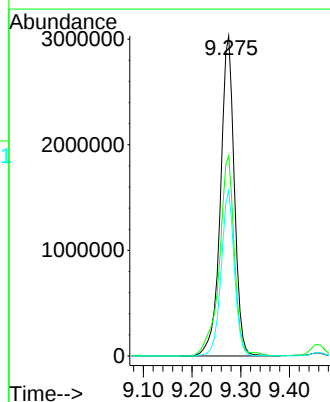
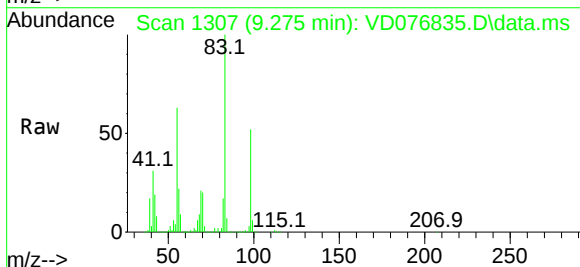
Tgt Ion: 83 Resp: 6009243

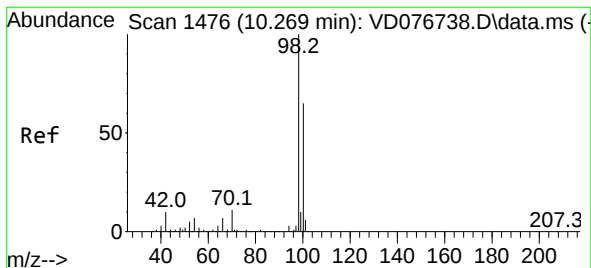
Ion Ratio Lower Upper

83 100

55 62.5 49.4 74.0

98 51.7 38.4 57.6

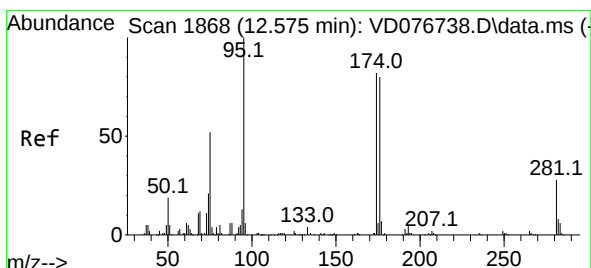
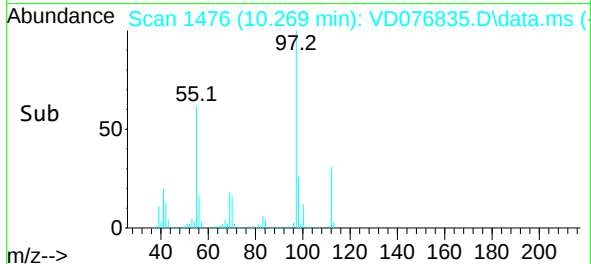
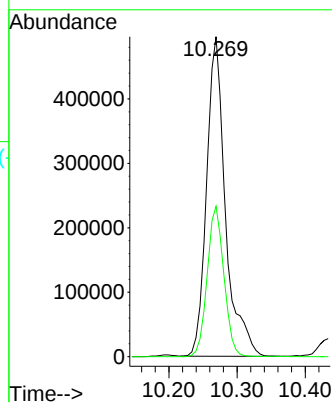
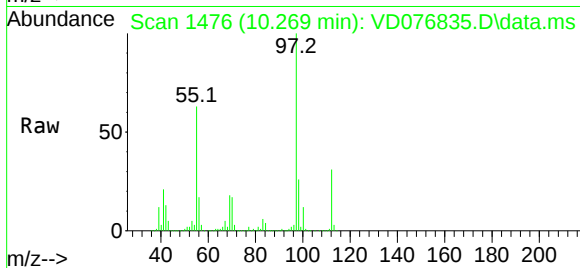




#50
Toluene-d8
Concen: 99.934 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

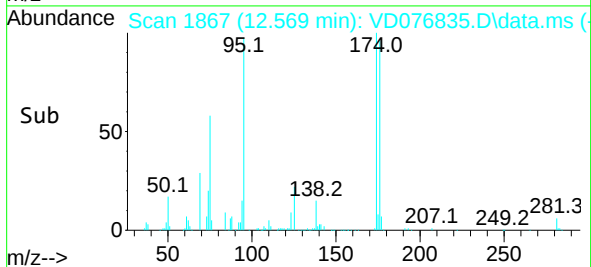
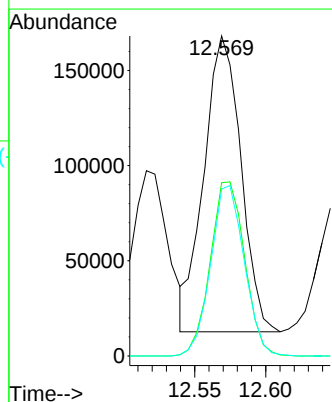
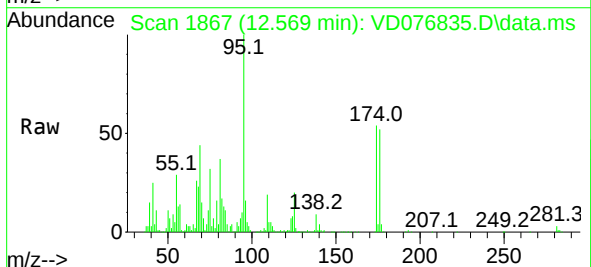
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ClientSampleId :
B-P39B

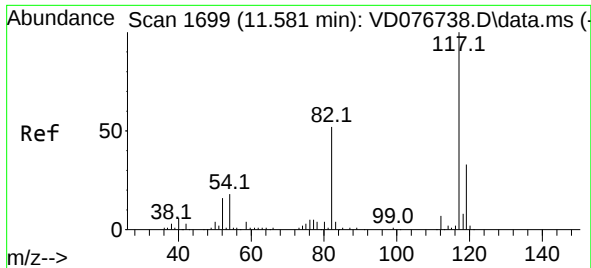
Tgt Ion: 98 Resp: 955400
Ion Ratio Lower Upper
98 100
100 41.6 50.3 75.5#



#62
4-Bromofluorobenzene
Concen: 90.859 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

Tgt Ion: 95 Resp: 281004
Ion Ratio Lower Upper
95 100
174 54.9 0.0 201.8
176 52.5 0.0 191.8

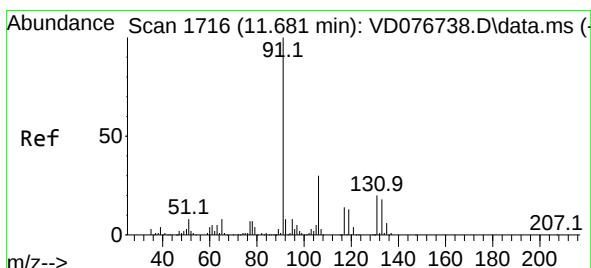
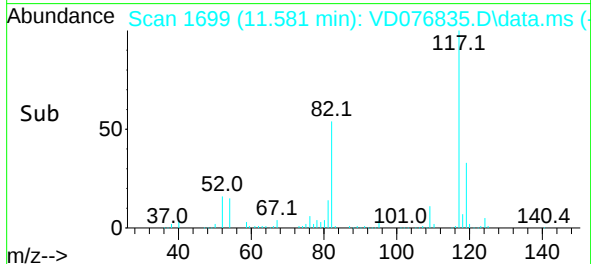
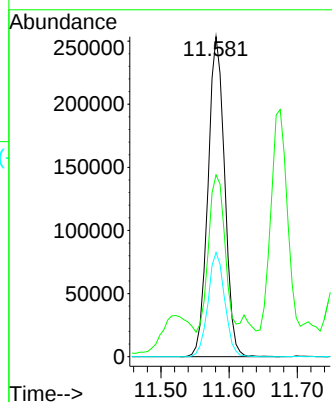
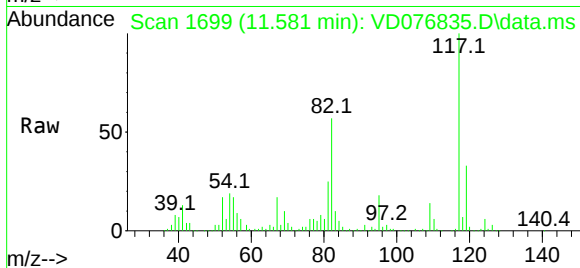




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

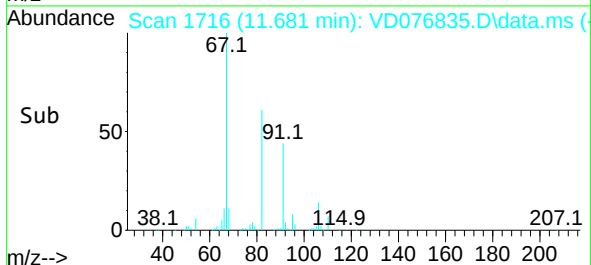
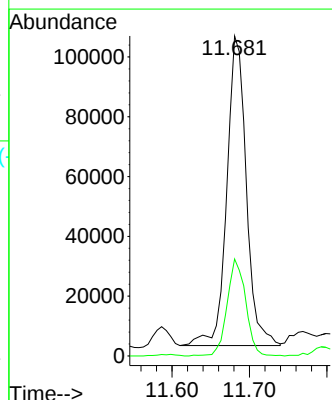
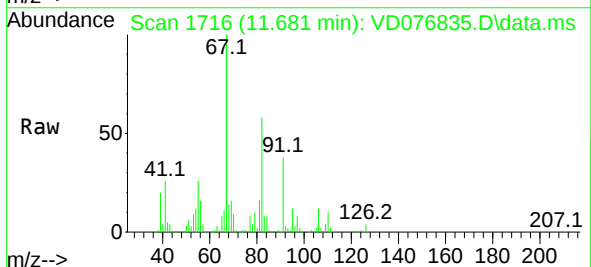
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ClientSampleId :
B-P39B

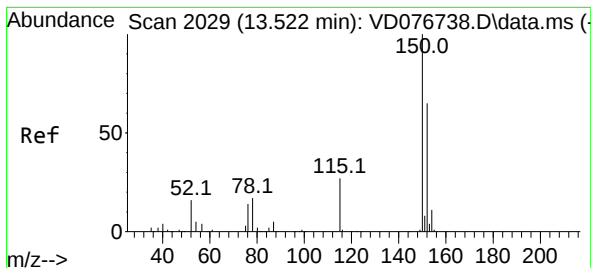
Tgt Ion:117 Resp: 430950
Ion Ratio Lower Upper
117 100
82 44.4 38.3 57.5
119 32.6 25.0 37.4



#67
Ethyl Benzene
Concen: 11.956 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

Tgt Ion: 91 Resp: 181995
Ion Ratio Lower Upper
91 100
106 31.1 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2029

Delta R.T. -0.006 min

Lab File: VD076835.D

Acq: 27 Jul 2023 15:42

Instrument :

MSVOA_D

ClientSampleId :

B-P39B

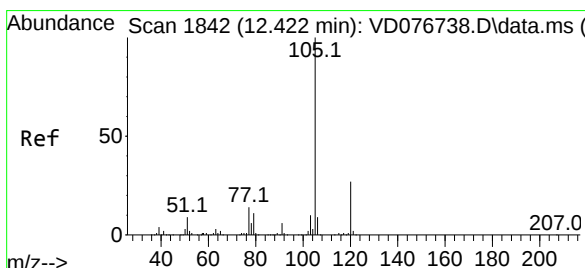
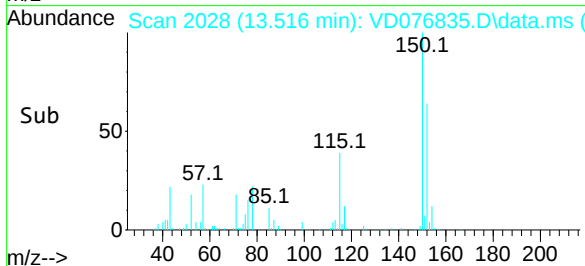
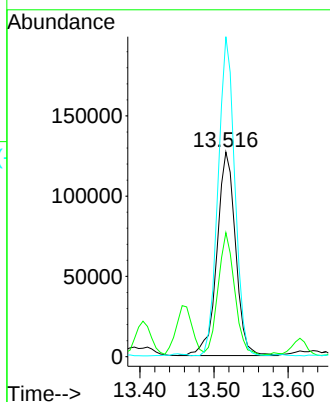
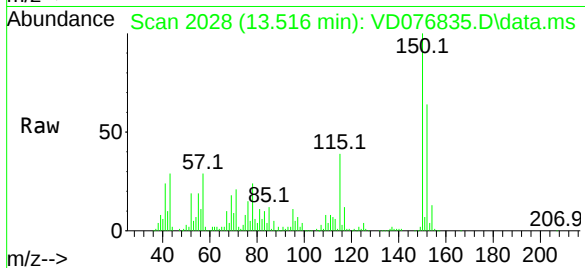
Tgt Ion:152 Resp: 221290

Ion Ratio Lower Upper

152 100

115 53.6 27.1 81.3

150 140.5 0.0 353.6



#73

Isopropylbenzene

Concen: 31.137 ug/l

RT: 12.422 min Scan# 1842

Delta R.T. -0.000 min

Lab File: VD076835.D

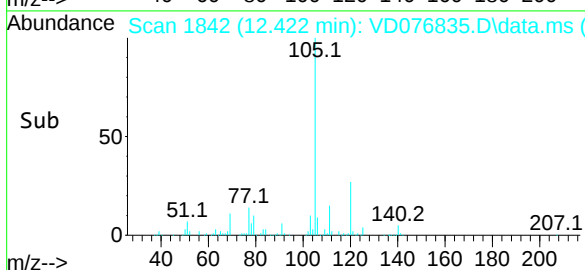
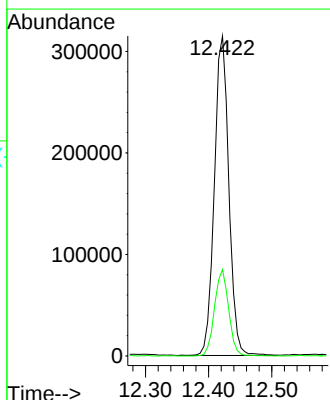
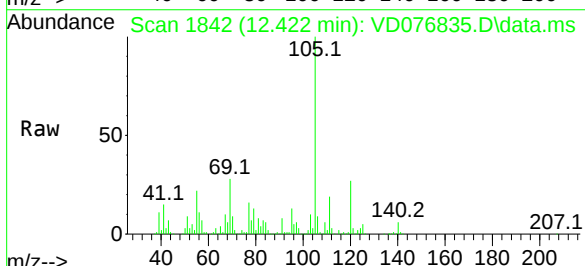
Acq: 27 Jul 2023 15:42

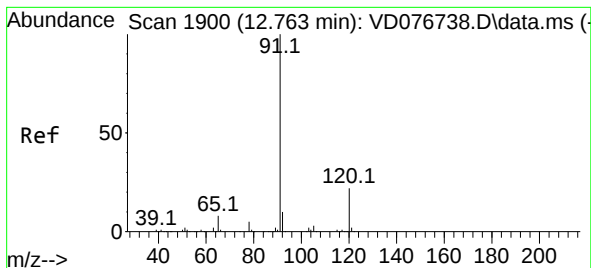
Tgt Ion:105 Resp: 499911

Ion Ratio Lower Upper

105 100

120 26.5 14.3 42.9





#78

n-propylbenzene

Concen: 58.286 ug/l

RT: 12.763 min Scan# 1900

Delta R.T. 0.000 min

Lab File: VD076835.D

Acq: 27 Jul 2023 15:42

Instrument :

MSVOA_D

ClientSampleId :

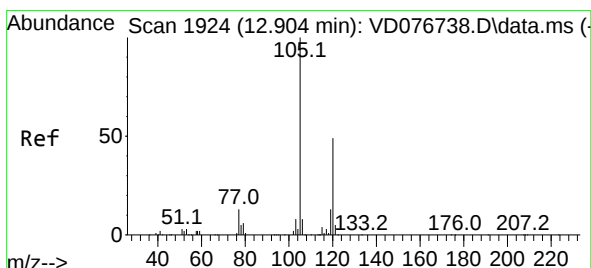
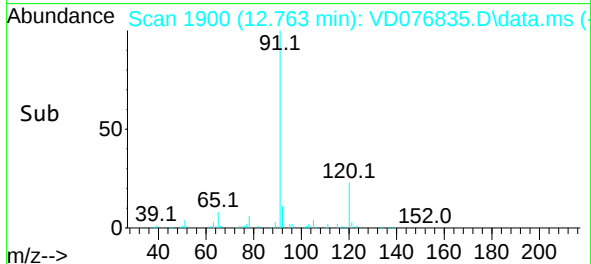
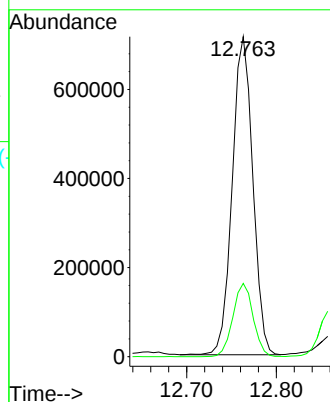
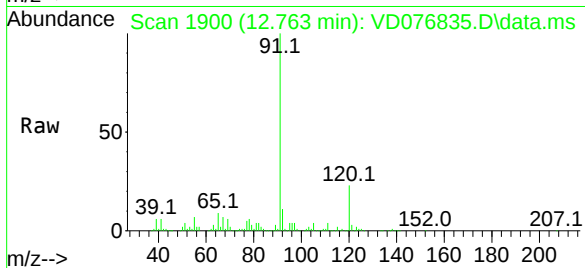
B-P39B

Tgt Ion: 91 Resp: 1134476

Ion Ratio Lower Upper

91 100

120 22.7 12.4 37.2



#80

1,3,5-Trimethylbenzene

Concen: 53.515 ug/l

RT: 12.904 min Scan# 1924

Delta R.T. 0.000 min

Lab File: VD076835.D

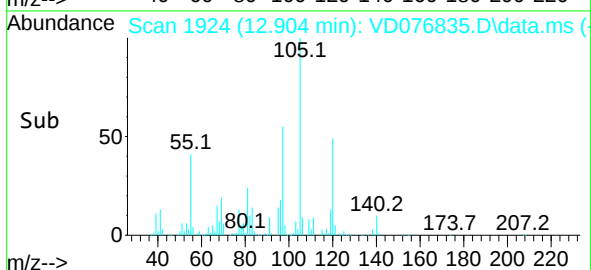
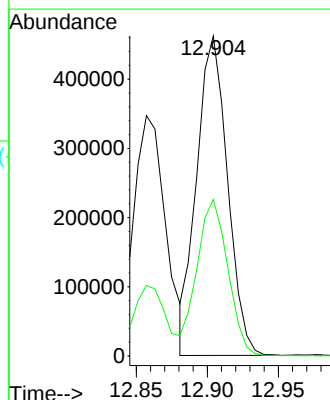
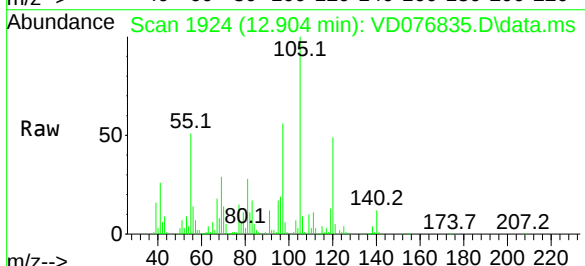
Acq: 27 Jul 2023 15:42

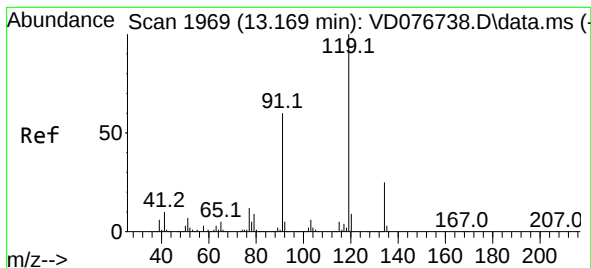
Tgt Ion:105 Resp: 694738

Ion Ratio Lower Upper

105 100

120 49.0 26.4 79.2





#83

tert-Butylbenzene

Concen: 4.629 ug/l

RT: 13.169 min Scan# 1969

Delta R.T. -0.000 min

Lab File: VD076835.D

Acq: 27 Jul 2023 15:42

Instrument :

MSVOA_D

ClientSampleId :

B-P39B

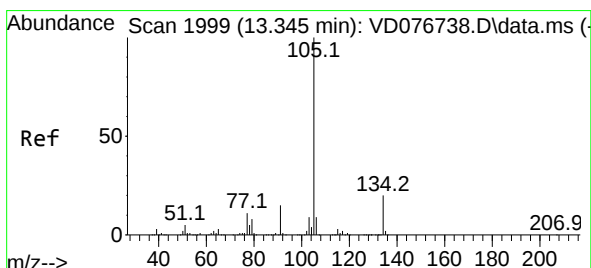
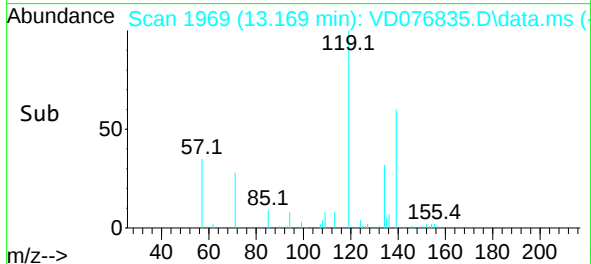
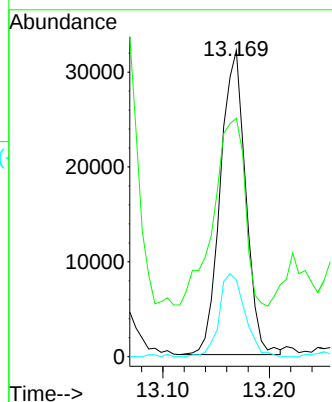
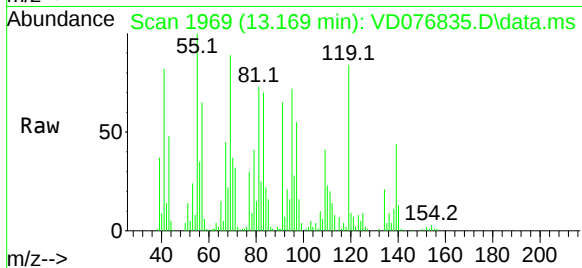
Tgt Ion:119 Resp: 52911

Ion Ratio Lower Upper

119 100

91 76.5 29.3 87.8

134 27.8 14.1 42.3



#85

sec-Butylbenzene

Concen: 27.545 ug/l

RT: 13.345 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VD076835.D

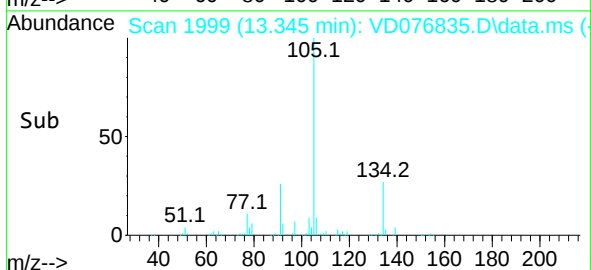
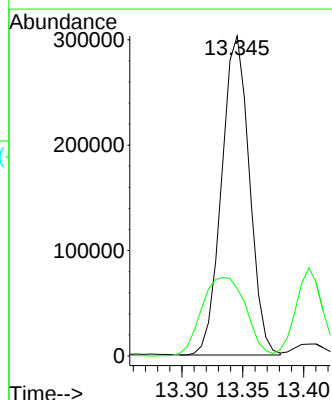
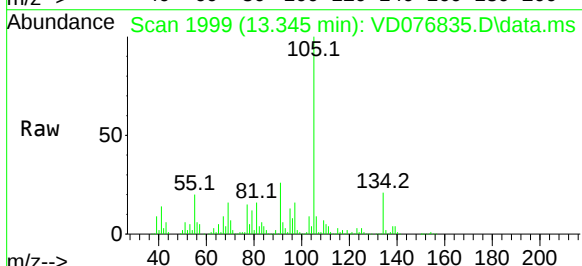
Acq: 27 Jul 2023 15:42

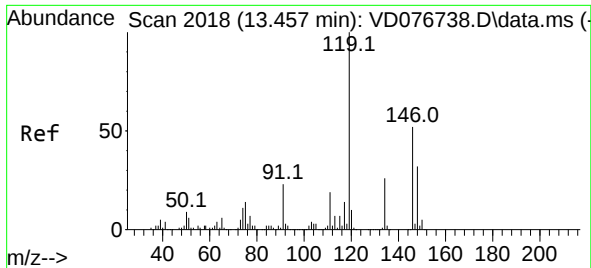
Tgt Ion:105 Resp: 481050

Ion Ratio Lower Upper

105 100

134 39.0 10.9 32.9#

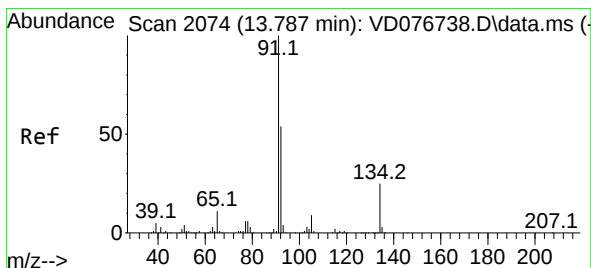
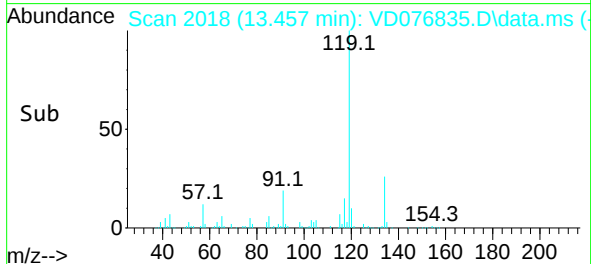
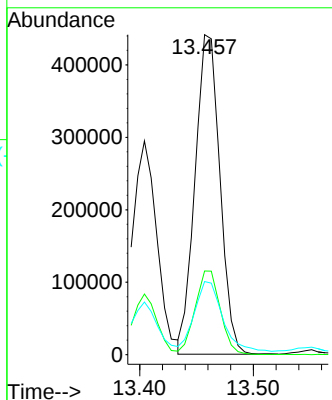
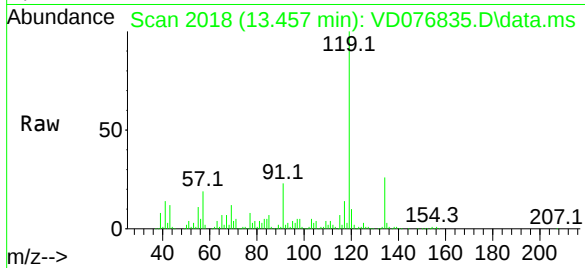




#86
p-Isopropyltoluene
Concen: 46.537 ug/l
RT: 13.457 min Scan# 2018
Delta R.T. 0.000 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

Instrument :
MSVOA_D
ClientSampleId :
B-P39B

Tgt Ion:119 Resp: 671196
Ion Ratio Lower Upper
119 100
134 26.4 14.2 42.6
91 24.3 10.5 31.5



#89
n-Butylbenzene
Concen: 39.781 ug/l
RT: 13.787 min Scan# 2074
Delta R.T. -0.000 min
Lab File: VD076835.D
Acq: 27 Jul 2023 15:42

Tgt Ion: 91 Resp: 561438
Ion Ratio Lower Upper
91 100
92 61.1 26.5 79.5
134 0.0 13.8 41.3#

