

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121121\
 Data File : VD071277.D
 Acq On : 11 Dec 2021 18:41
 Operator : VA/SY
 Sample : M5051-03
 Misc : 5.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-3

Quant Time: Dec 12 18:51:31 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

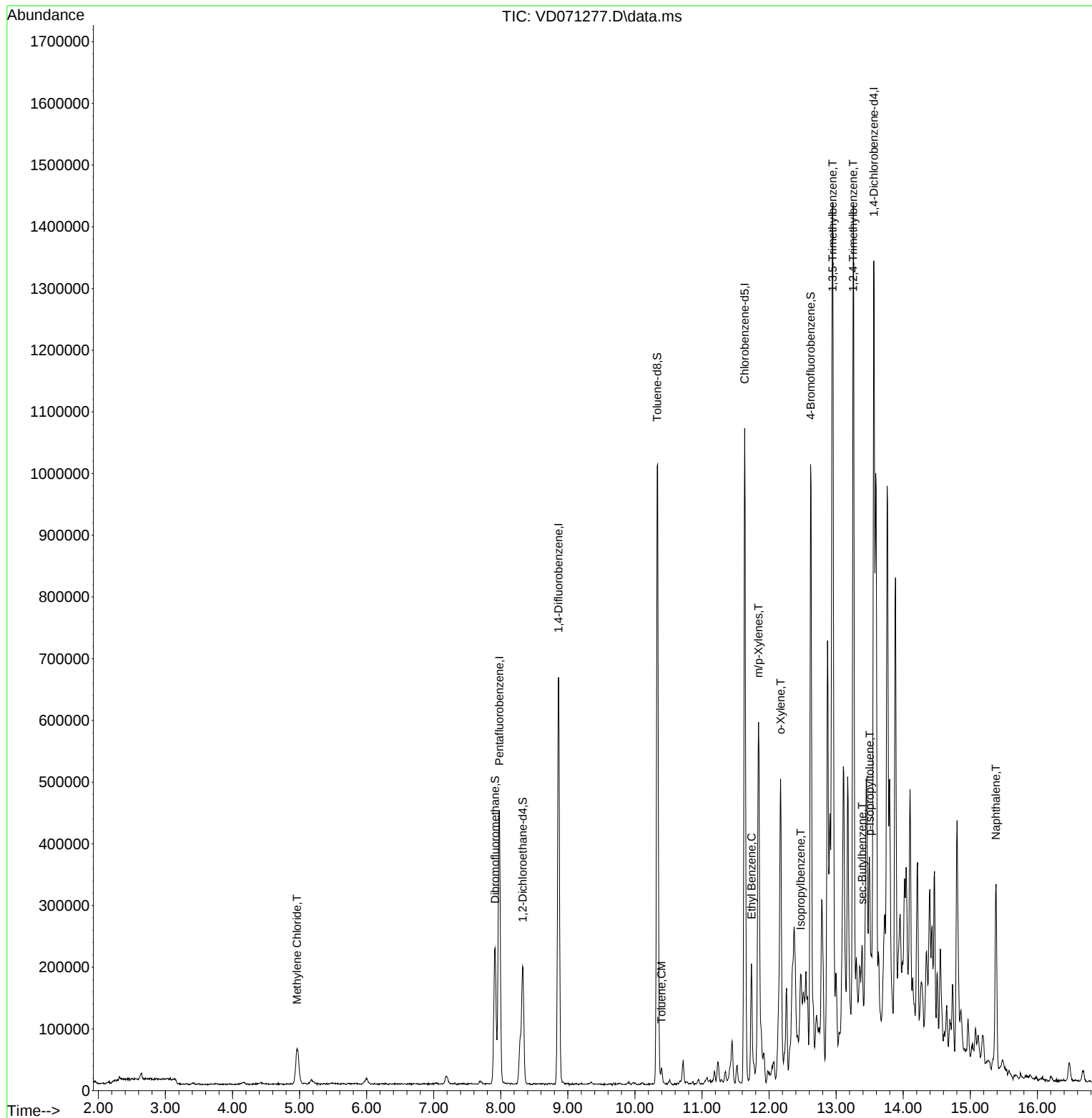
Internal Standards						
1) Pentafluorobenzene	7.979	168	319098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	523398	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	557915	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	284223	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	145054	38.741	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	77.480%
35) Dibromofluoromethane	7.914	113	157144	47.149	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	94.300%
50) Toluene-d8	10.332	98	663604	52.320	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	104.640%
62) 4-Bromofluorobenzene	12.620	95	279965	63.678	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	127.360%
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.962	84	42871	7.824	ug/l #	85
52) Toluene	10.397	92	9091	1.078	ug/l	97
67) Ethyl Benzene	11.738	91	121649	6.242	ug/l	92
68) m/p-Xylenes	11.843	106	160481	21.813	ug/l	98
69) o-Xylene	12.173	106	118089	17.078	ug/l	98
73) Isopropylbenzene	12.473	105	36010	1.750	ug/l	97
80) 1,3,5-Trimethylbenzene	12.949	105	500216m	29.475	ug/l	
84) 1,2,4-Trimethylbenzene	13.255	105	706383	42.634	ug/l	99
85) sec-Butylbenzene	13.390	105	45512	2.045	ug/l	87
86) p-Isopropyltoluene	13.502	119	57694	3.169	ug/l	96
95) Naphthalene	15.384	128	254617	30.685	ug/l	100

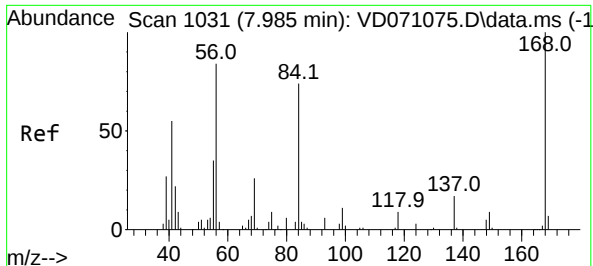
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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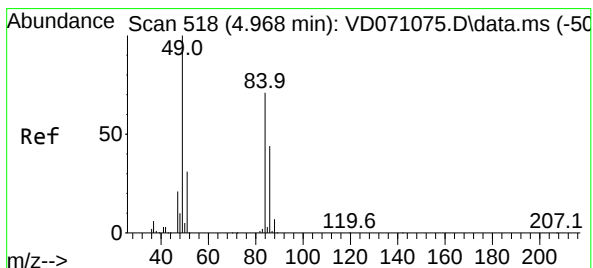
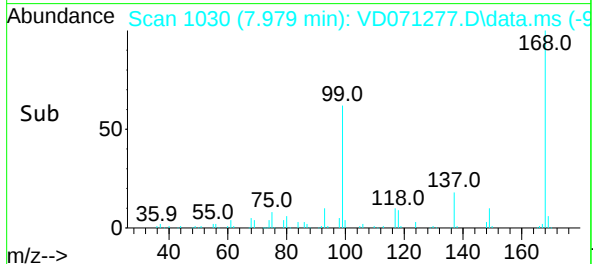
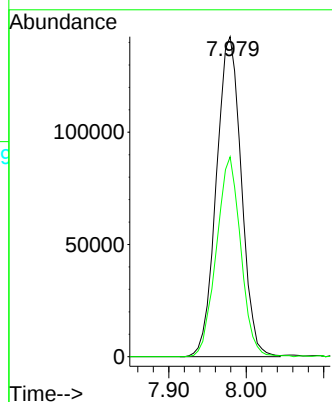
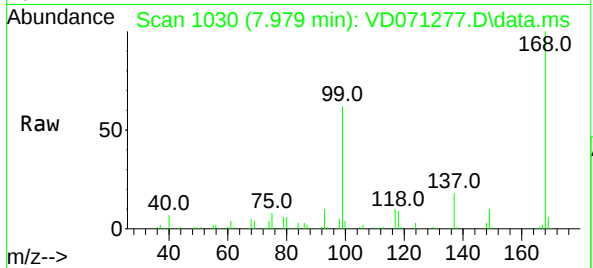




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD071277.D
Acq: 11 Dec 2021 18:41

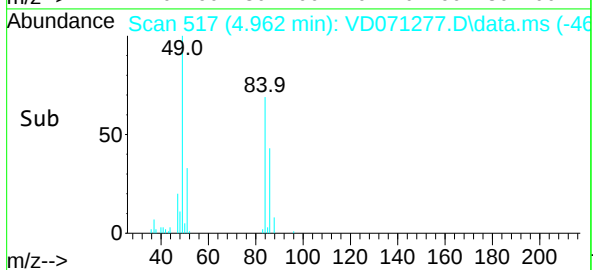
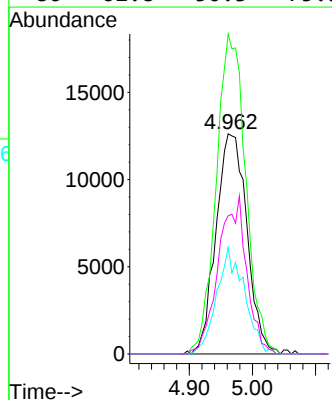
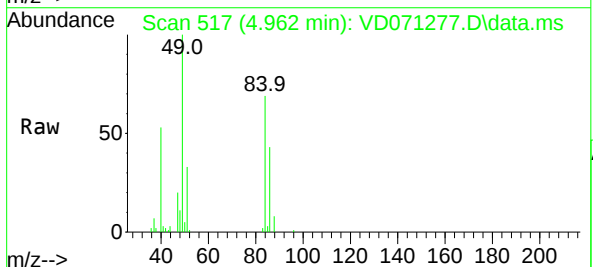
Instrument :
MSVOA_D
ClientSampleId :
P-3

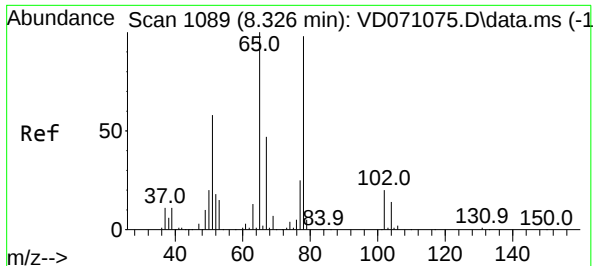
Tgt Ion:168 Resp: 319098
Ion Ratio Lower Upper
168 100
99 62.4 46.6 69.8



#20
Methylene Chloride
Concen: 7.824 ug/l
RT: 4.962 min Scan# 517
Delta R.T. -0.006 min
Lab File: VD071277.D
Acq: 11 Dec 2021 18:41

Tgt Ion: 84 Resp: 42871
Ion Ratio Lower Upper
84 100
49 145.3 95.8 143.6#
51 48.4 30.9 46.3#
86 62.8 50.3 75.5





#33

1,2-Dichloroethane-d4

Concen: 38.741 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071277.D

Acq: 11 Dec 2021 18:41

Instrument :

MSVOA_D

ClientSampleId :

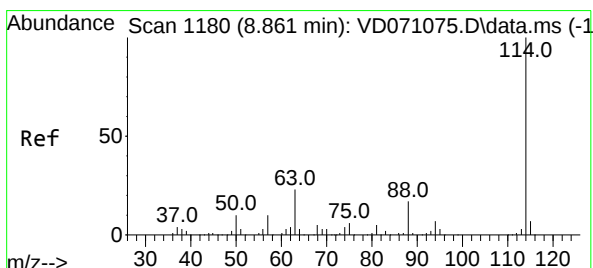
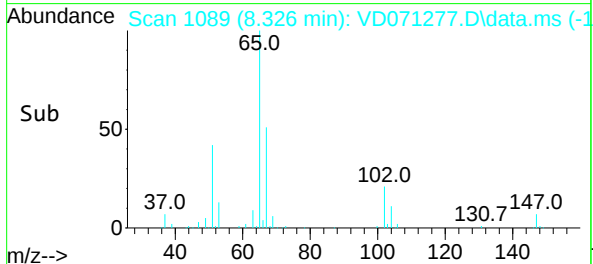
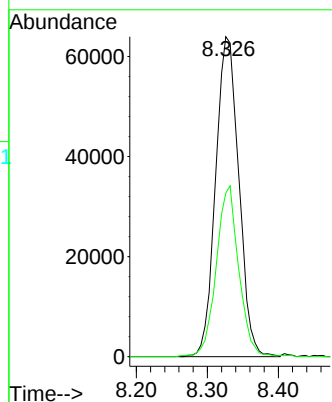
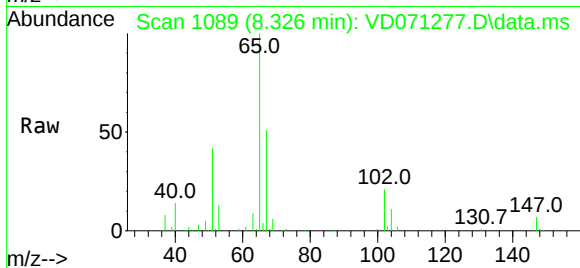
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Tgt Ion: 65 Resp: 145054

Ion Ratio Lower Upper

65 100

67 51.6 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071277.D

Acq: 11 Dec 2021 18:41

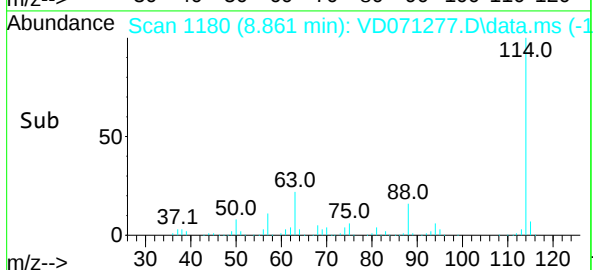
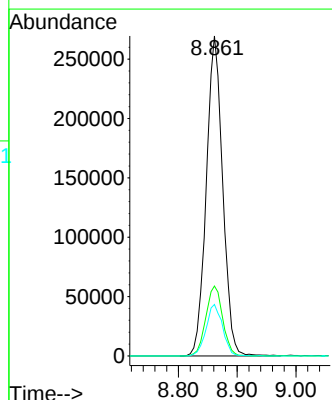
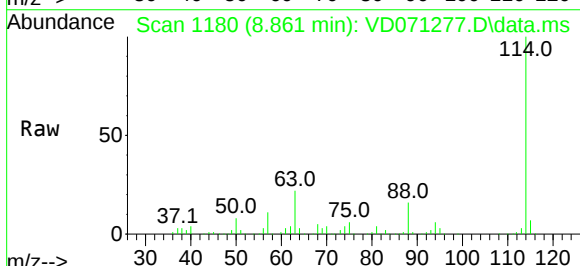
Tgt Ion: 114 Resp: 523398

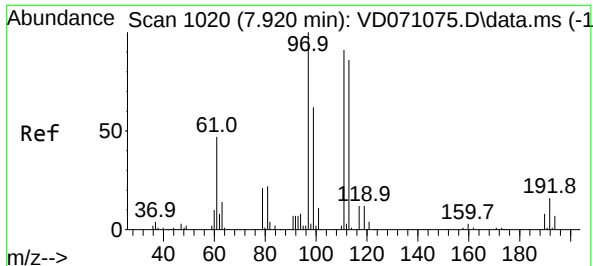
Ion Ratio Lower Upper

114 100

63 21.8 0.0 41.8

88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.149 ug/l

RT: 7.914 min Scan# 10

Delta R.T. -0.006 min

Lab File: VD071277.D

Acq: 11 Dec 2021 18:41

Instrument :

MSVOA_D

ClientSampleId :

P-3

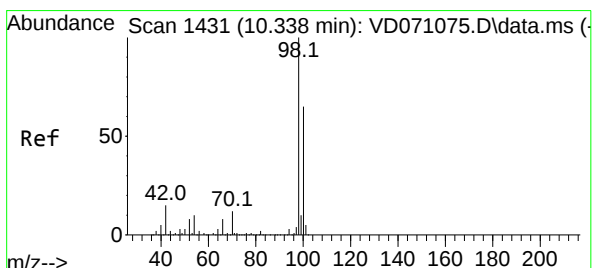
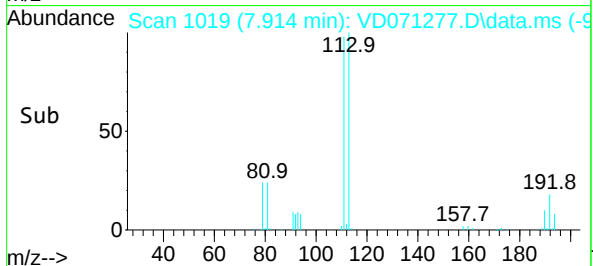
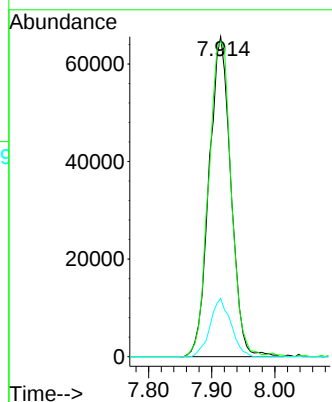
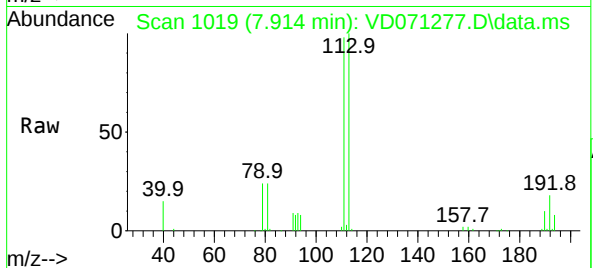
Tgt Ion:113 Resp: 157144

Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

192 17.4 15.2 22.8



#50

Toluene-d8

Concen: 52.320 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD071277.D

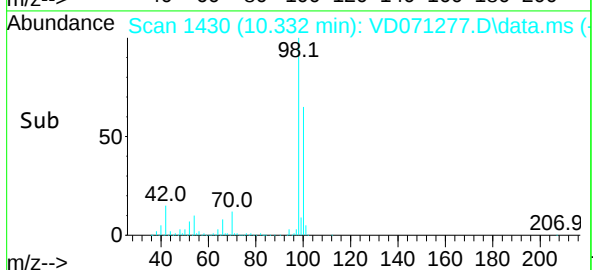
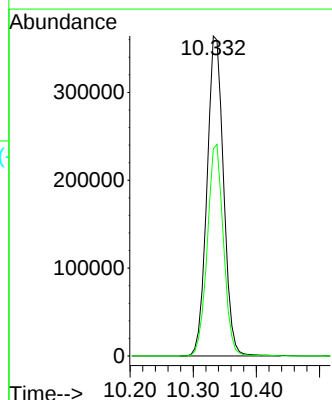
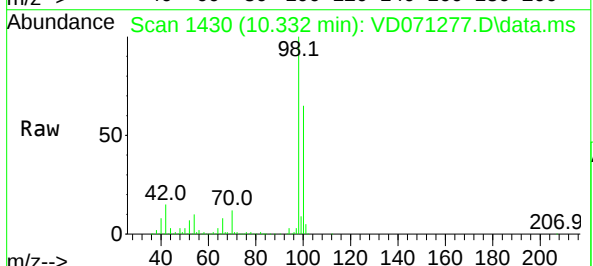
Acq: 11 Dec 2021 18:41

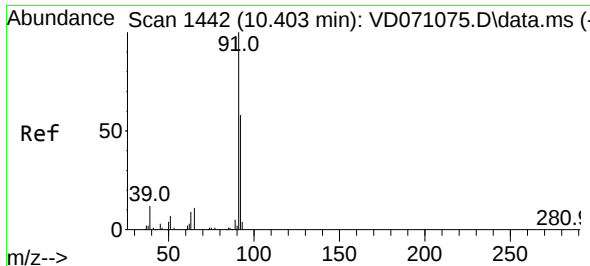
Tgt Ion: 98 Resp: 663604

Ion Ratio Lower Upper

98 100

100 64.4 51.8 77.6

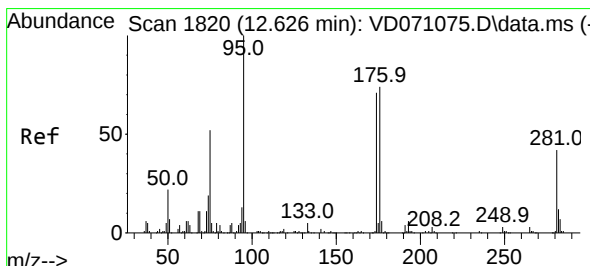
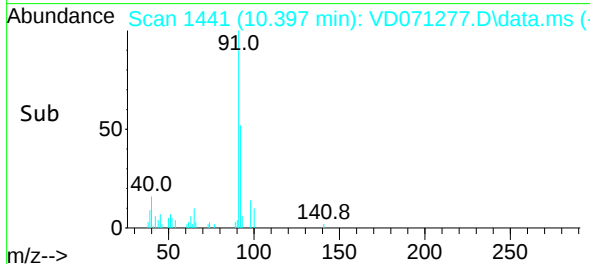
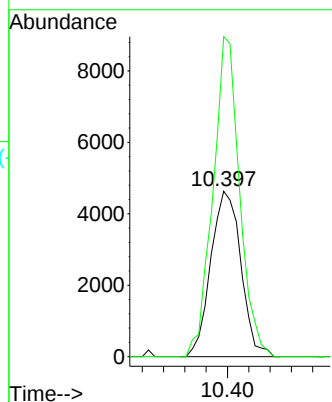
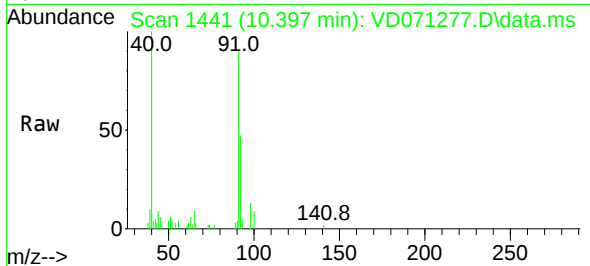




#52
Toluene
Concen: 1.078 ug/l
RT: 10.397 min Scan# 1441
Delta R.T. -0.007 min
Lab File: VD071277.D
Acq: 11 Dec 2021 18:41

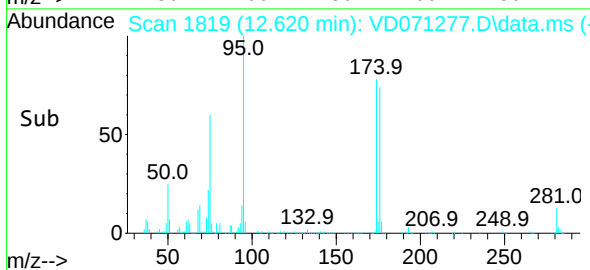
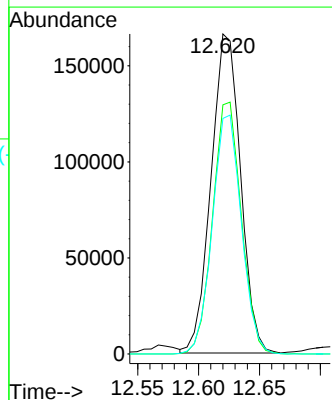
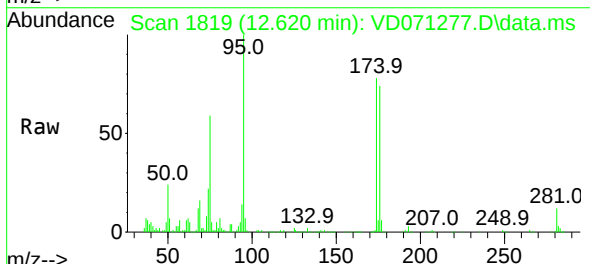
Instrument :
MSVOA_D
ClientSampleId :
P-3

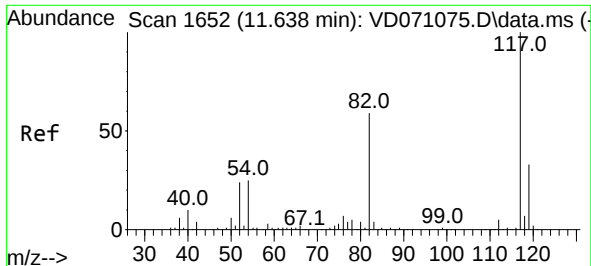
Tgt Ion: 92 Resp: 9091
Ion Ratio Lower Upper
92 100
91 171.5 140.7 211.1



#62
4-Bromofluorobenzene
Concen: 63.678 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071277.D
Acq: 11 Dec 2021 18:41

Tgt Ion: 95 Resp: 279965
Ion Ratio Lower Upper
95 100
174 76.7 0.0 159.4
176 73.7 0.0 154.0

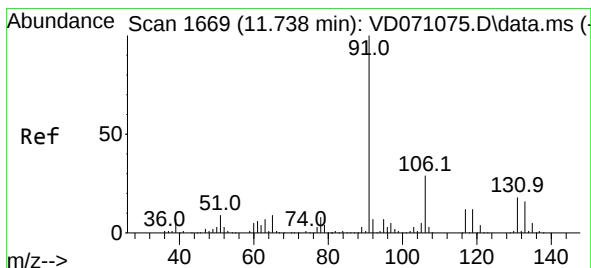
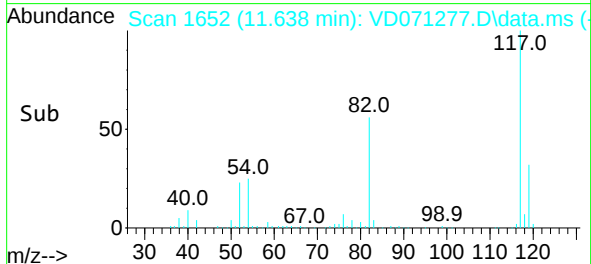
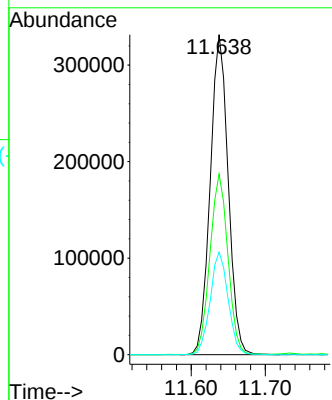
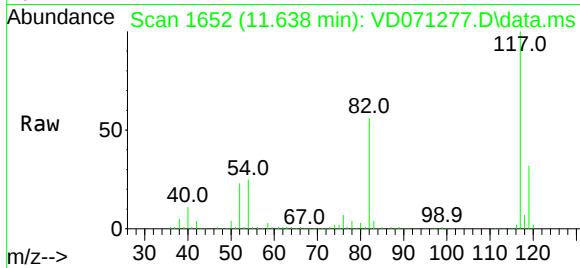




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071277.D
Acq: 11 Dec 2021 18:41

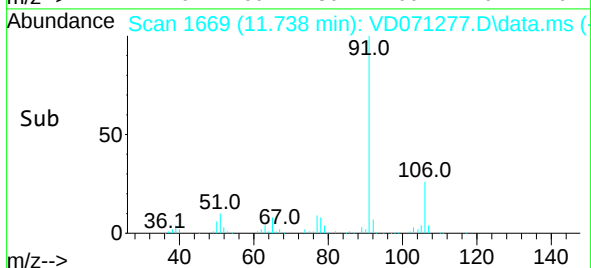
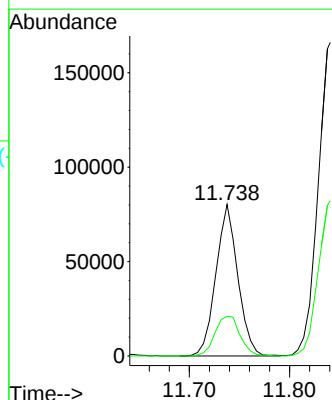
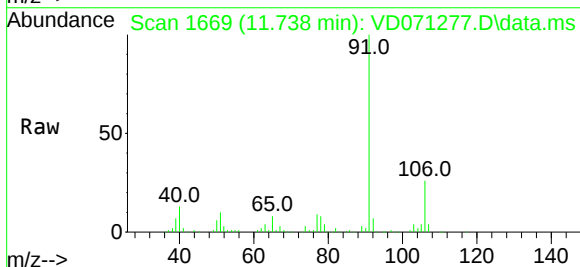
Instrument :
MSVOA_D
ClientSampleId :
P-3

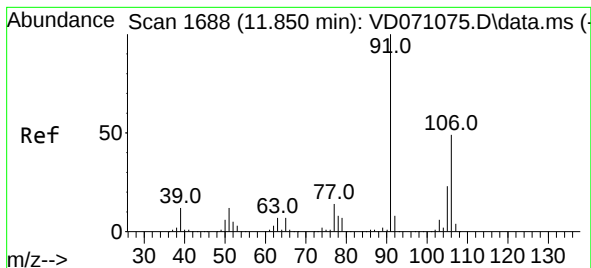
Tgt Ion:117 Resp: 557915
Ion Ratio Lower Upper
117 100
82 56.3 44.7 67.1
119 32.0 26.2 39.4



#67
Ethyl Benzene
Concen: 6.242 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VD071277.D
Acq: 11 Dec 2021 18:41

Tgt Ion: 91 Resp: 121649
Ion Ratio Lower Upper
91 100
106 26.2 24.6 36.8





#68

m/p-Xylenes

Concen: 21.813 ug/l

RT: 11.843 min Scan# 1

Delta R.T. -0.007 min

Lab File: VD071277.D

Acq: 11 Dec 2021 18:41

Instrument :

MSVOA_D

ClientSampleId :

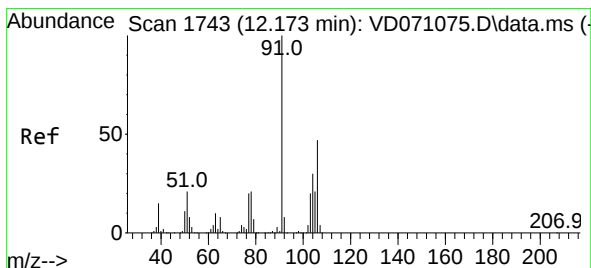
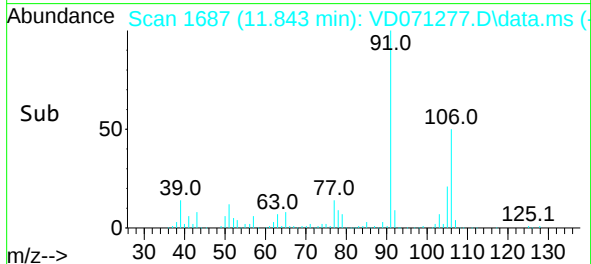
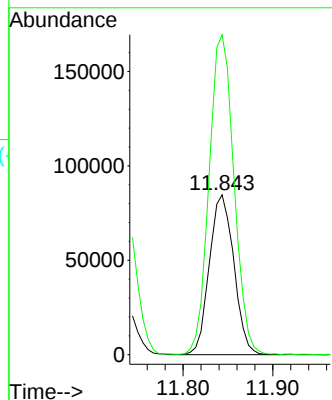
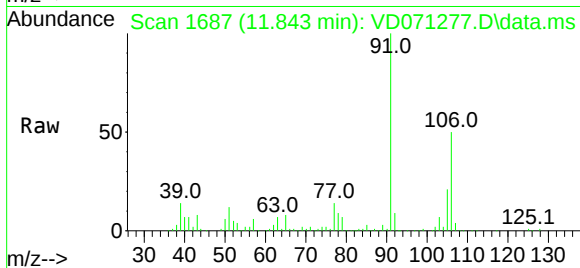
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Tgt Ion:106 Resp: 160481

Ion Ratio Lower Upper

106 100

91 202.8 160.1 240.1



#69

o-Xylene

Concen: 17.078 ug/l

RT: 12.173 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VD071277.D

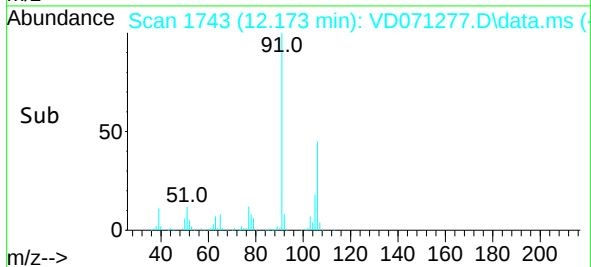
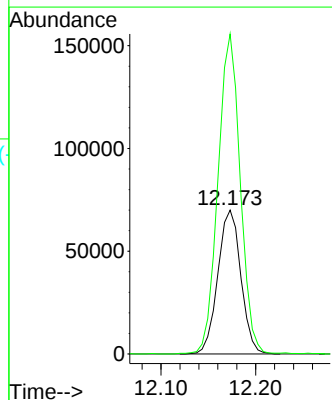
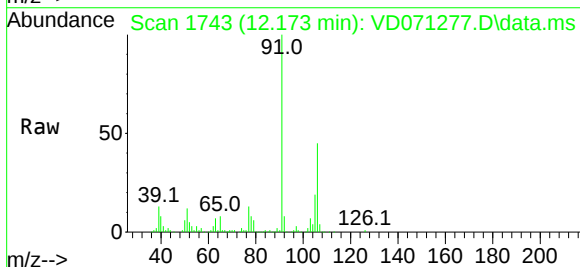
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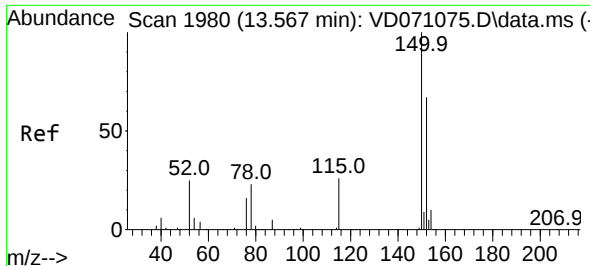
Tgt Ion:106 Resp: 118089

Ion Ratio Lower Upper

106 100

91 215.1 106.3 319.0

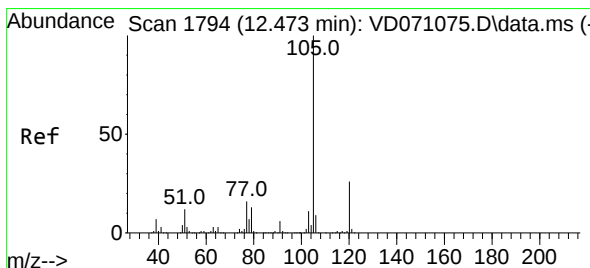
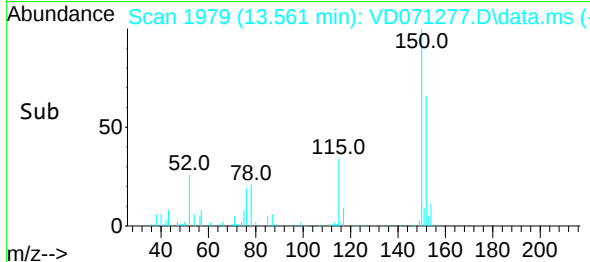
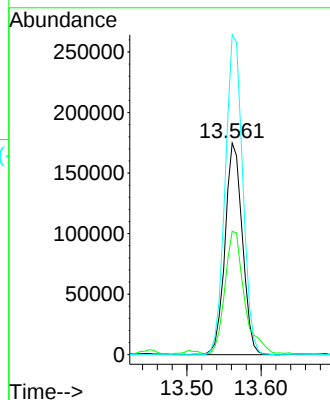
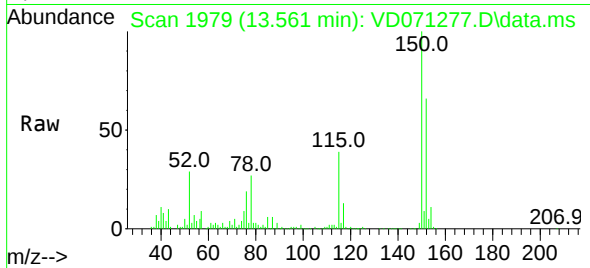




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071277.D
Acq: 11 Dec 2021 18:41

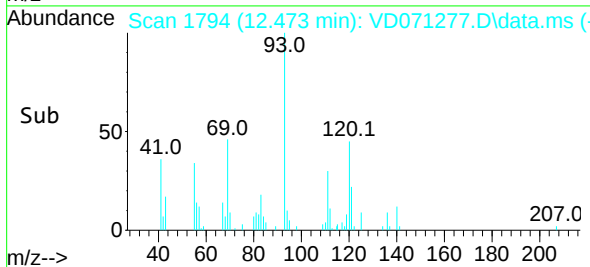
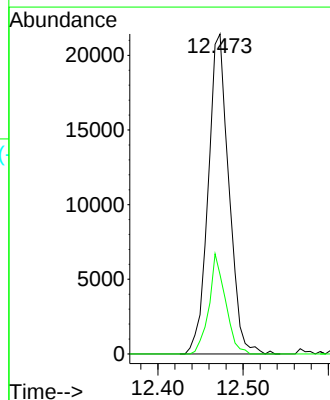
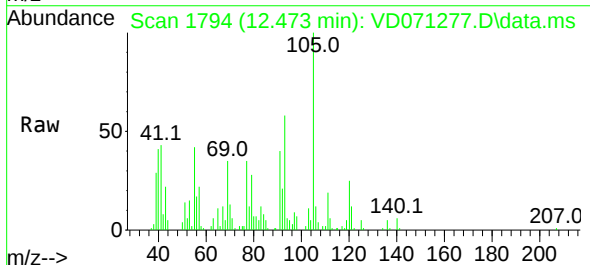
Instrument :
MSVOA_D
ClientSampleId :
P-3

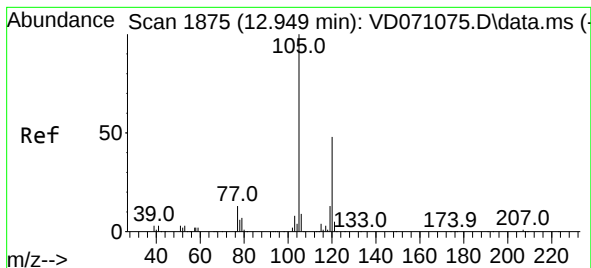
Tgt Ion:152 Resp: 284223
Ion Ratio Lower Upper
152 100
115 67.4 29.8 89.3
150 152.6 0.0 349.2



#73
Isopropylbenzene
Concen: 1.750 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VD071277.D
Acq: 11 Dec 2021 18:41

Tgt Ion:105 Resp: 36010
Ion Ratio Lower Upper
105 100
120 24.9 13.2 39.5





#80

1,3,5-Trimethylbenzene

Concen: 29.475 ug/l m

RT: 12.949 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VD071277.D

Acq: 11 Dec 2021 18:41

Instrument :

MSVOA_D

ClientSampleId :

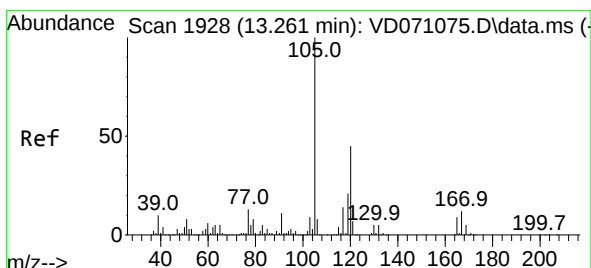
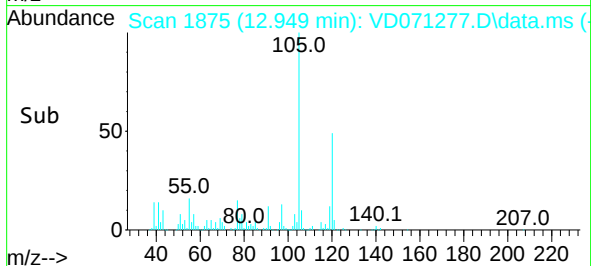
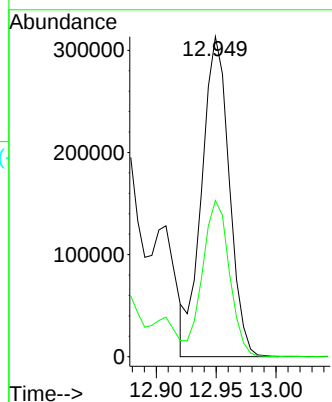
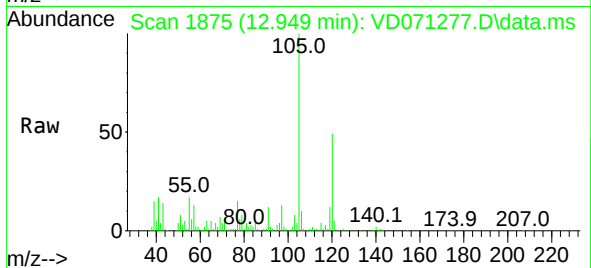
P-3

Tgt Ion:105 Resp: 500216

Ion Ratio Lower Upper

105 100

120 0.0 24.6 73.8#



#84

1,2,4-Trimethylbenzene

Concen: 42.634 ug/l

RT: 13.255 min Scan# 1927

Delta R.T. -0.006 min

Lab File: VD071277.D

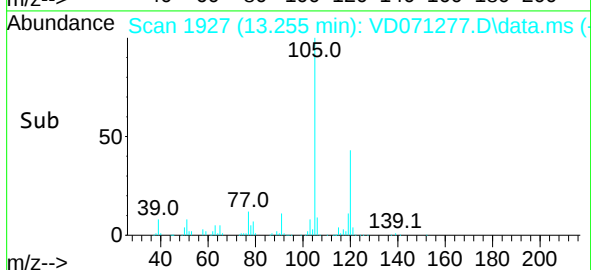
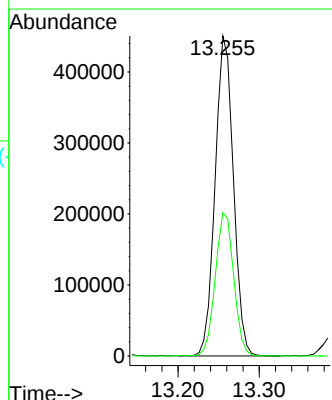
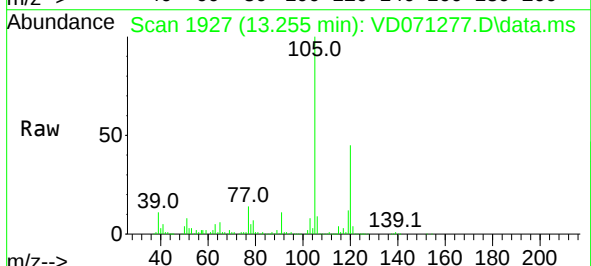
Acq: 11 Dec 2021 18:41

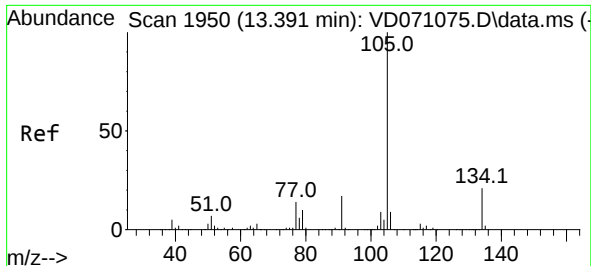
Tgt Ion:105 Resp: 706383

Ion Ratio Lower Upper

105 100

120 45.2 22.9 68.7

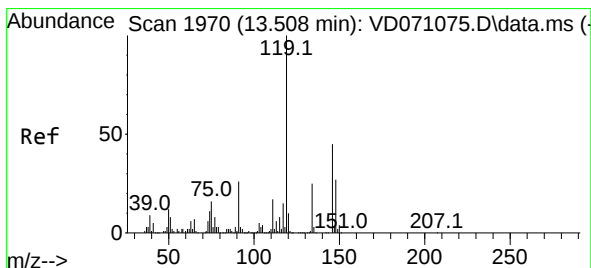
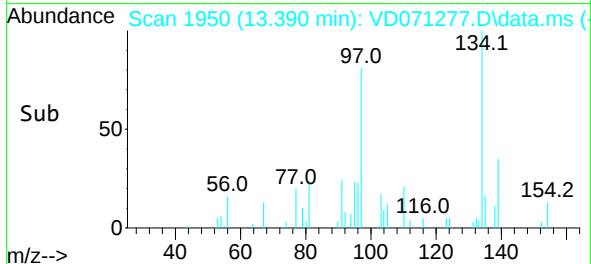
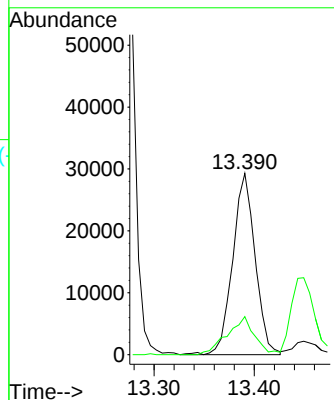
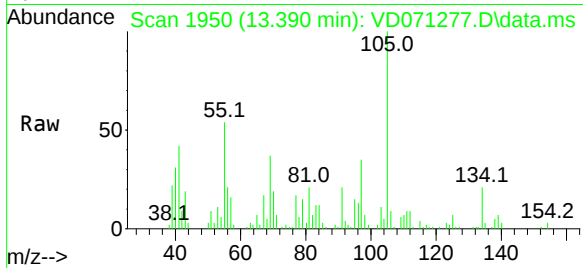




#85
 sec-Butylbenzene
 Concen: 2.045 ug/l
 RT: 13.390 min Scan# 1950
 Delta R.T. -0.001 min
 Lab File: VD071277.D
 Acq: 11 Dec 2021 18:41

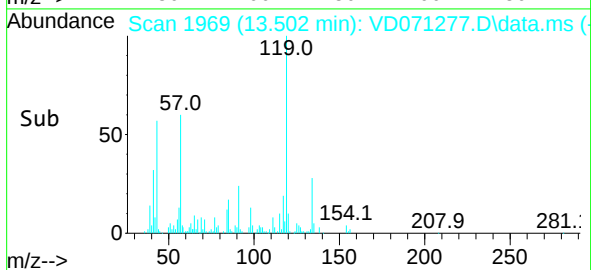
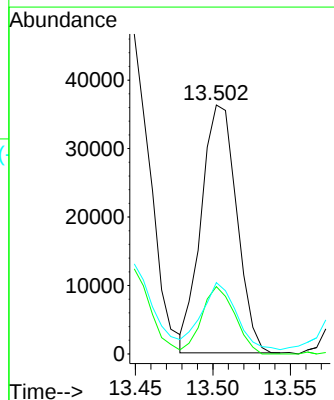
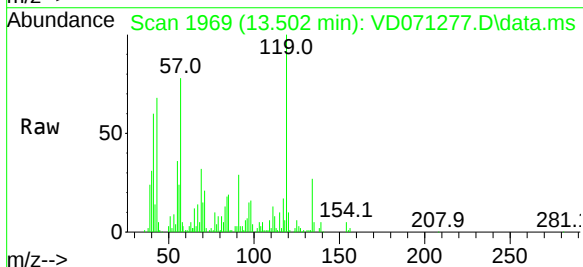
Instrument :
 MSVOA_D
 ClientSampleId :
 P-3

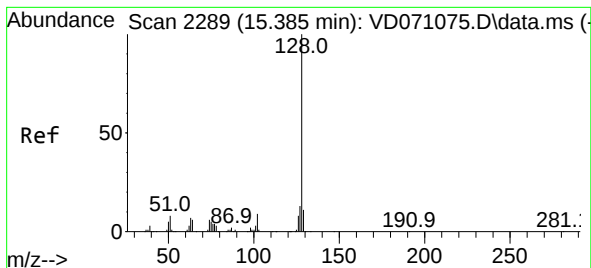
Tgt Ion:105 Resp: 45512
 Ion Ratio Lower Upper
 105 100
 134 25.0 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 3.169 ug/l
 RT: 13.502 min Scan# 1969
 Delta R.T. -0.006 min
 Lab File: VD071277.D
 Acq: 11 Dec 2021 18:41

Tgt Ion:119 Resp: 57694
 Ion Ratio Lower Upper
 119 100
 134 25.3 13.0 38.9
 91 26.3 11.4 34.2





#95

Naphthalene

Concen: 30.685 ug/l

RT: 15.384 min Scan# 21

Delta R.T. -0.001 min

Lab File: VD071277.D

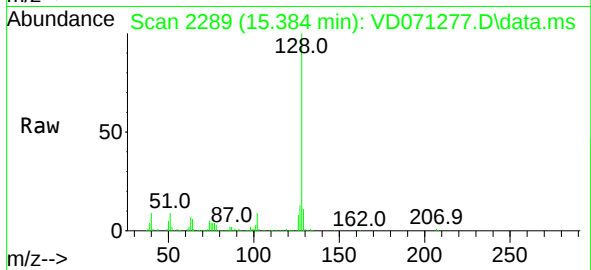
Acq: 11 Dec 2021 18:41

Instrument :

MSVOA_D

ClientSampleId :

P-3



Tgt Ion:128 Resp: 254617

Ion Ratio Lower Upper

128 100

127 13.5 10.7 16.1

129 10.9 8.7 13.1

