

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD070622\
 Data File : VD073795.D
 Acq On : 06 Jul 2022 16:46
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

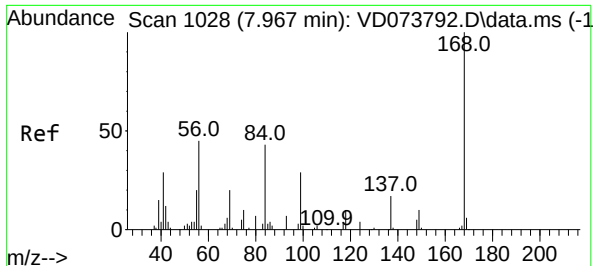
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Jul 08 06:12:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D070622S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 08 05:39:57 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.967	168	120305	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	249625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	231011	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	98389	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	86390	58.363	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.720%			
35) Dibromofluoromethane	7.908	113	81168	52.993	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.980%			
50) Toluene-d8	10.332	98	309570	59.662	ug/l	0.00
Spiked Amount 50.000	Range 78 - 12		Recovery = 119.320%#			
62) 4-Bromofluorobenzene	12.620	95	110704	51.906	ug/l	0.00
Spiked Amount 50.000	Range 50 - 14		Recovery = 103.820%#			
Target Compounds					Qvalue	
9) 1,1,2-Trichlorotrifluo...	4.079	101	2503	2.012	ug/l #	42
30) Chloroform	7.691	83	3284	1.097	ug/l #	78
32) 1,1,1-Trichloroethane	7.903	97	4001	1.579	ug/l #	79
36) 1,1-Dichloropropene	8.103	75	3507	1.790	ug/l #	92
38) Carbon Tetrachloride	8.085	117	3362	1.509	ug/l #	86
39) Methylcyclohexane	9.344	83	3902	1.928	ug/l	91
44) Trichloroethene	9.108	130	1737	1.128	ug/l	79
51) 4-Methyl-2-Pentanone	10.220	43	3041	2.472	ug/l	88
52) Toluene	10.397	92	4383	1.144	ug/l	93
67) Ethyl Benzene	11.738	91	8707	1.088	ug/l	95
68) m/p-Xylenes	11.849	106	6971	2.303	ug/l	98
69) o-Xylene	12.173	106	2955	1.014	ug/l	78
73) Isopropylbenzene	12.467	105	10394	1.372	ug/l	96
78) n-propylbenzene	12.802	91	12153	1.280	ug/l	96
79) 2-Chlorotoluene	12.896	91	5634	1.049	ug/l	91
80) 1,3,5-Trimethylbenzene	12.949	105	7664	1.211	ug/l	92
83) tert-Butylbenzene	13.214	119	7790	1.389	ug/l	98
84) 1,2,4-Trimethylbenzene	13.255	105	6418	1.024	ug/l	91
85) sec-Butylbenzene	13.385	105	12213	1.423	ug/l	96
86) p-Isopropyltoluene	13.496	119	9122	1.333	ug/l	99
89) n-Butylbenzene	13.826	91	9713	1.405	ug/l	97
94) Hexachlorobutadiene	15.249	225	1168	1.447	ug/l	81

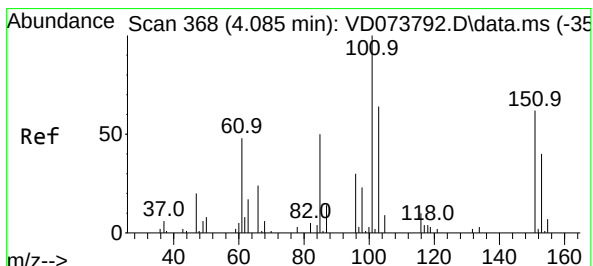
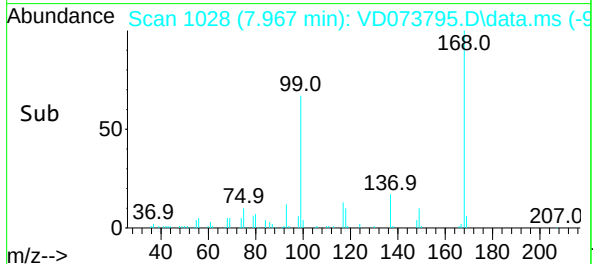
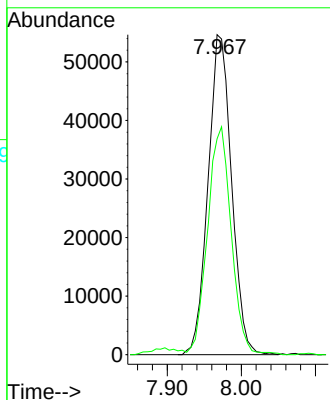
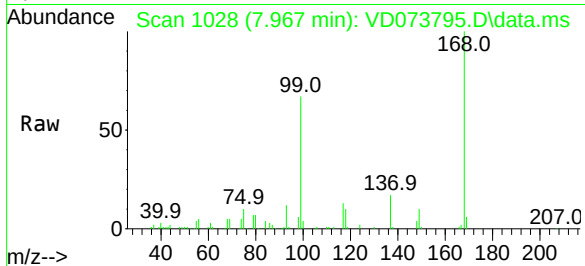
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

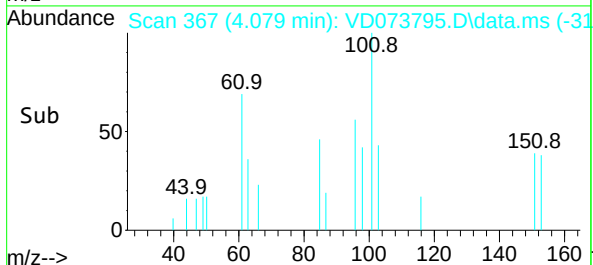
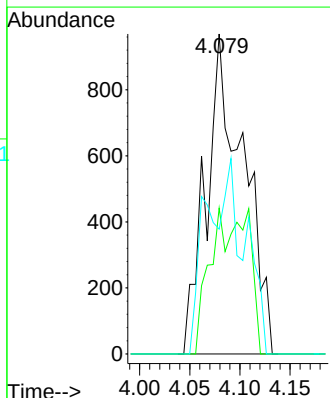
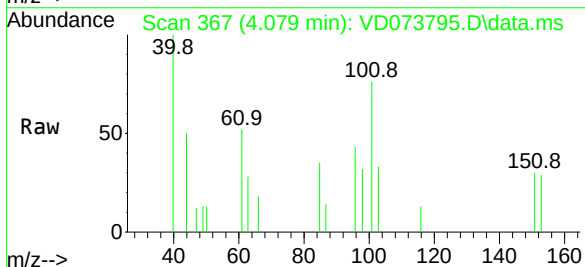
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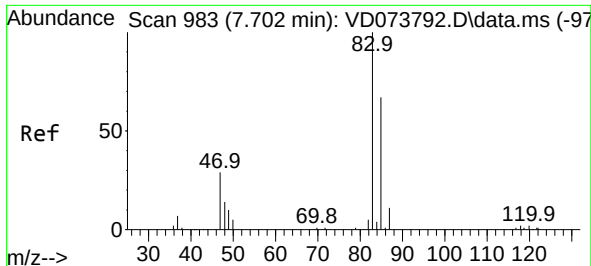
Tgt Ion:168 Resp: 120305
Ion Ratio Lower Upper
168 100
99 67.0 58.4 87.6



#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.012 ug/l
RT: 4.079 min Scan# 367
Delta R.T. -0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion:101 Resp: 2503
Ion Ratio Lower Upper
101 100
85 21.1 38.8 58.2#
151 10.5 54.4 81.6#

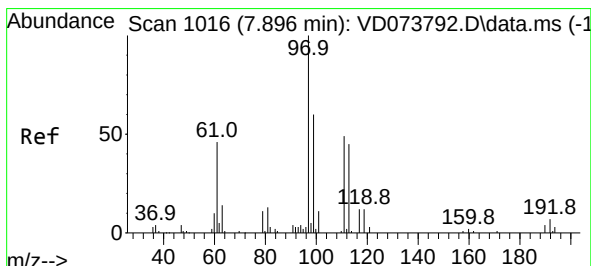
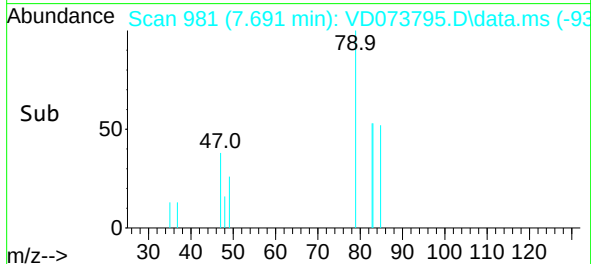
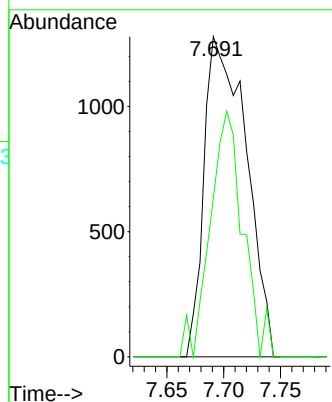
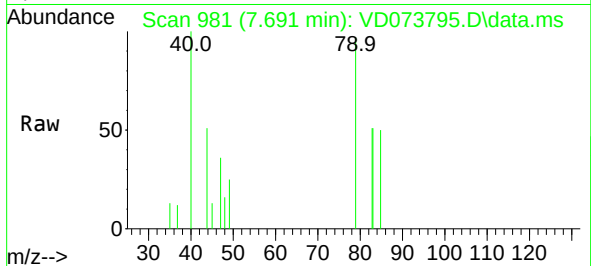




#30
Chloroform
Concen: 1.097 ug/l
RT: 7.691 min Scan# 91
Delta R.T. -0.011 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

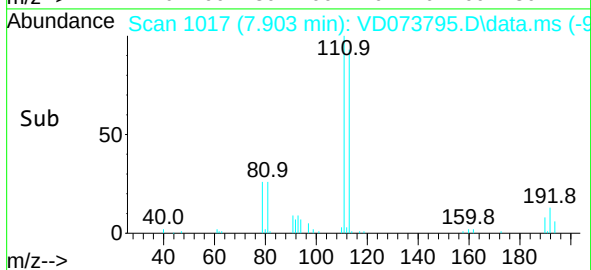
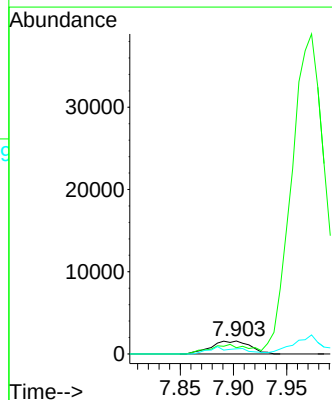
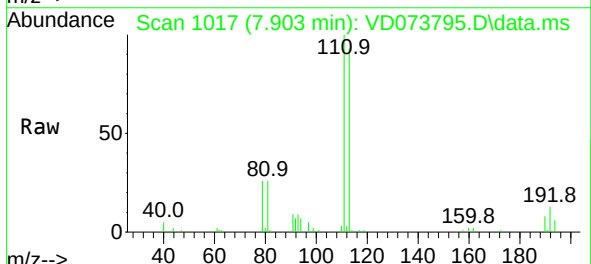
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

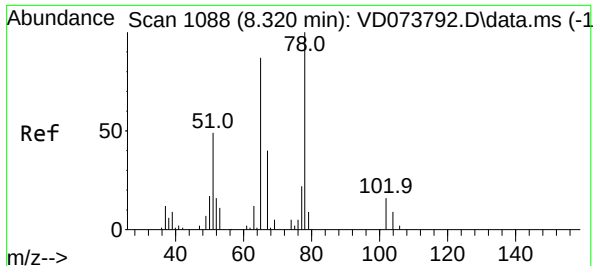
Tgt Ion: 83 Resp: 3284
Ion Ratio Lower Upper
83 100
85 49.4 53.4 80.0#



#32
1,1,1-Trichloroethane
Concen: 1.579 ug/l
RT: 7.903 min Scan# 1017
Delta R.T. 0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion: 97 Resp: 4001
Ion Ratio Lower Upper
97 100
99 74.1 49.8 74.8
61 26.6 35.8 53.6#





#33

1,2-Dichloroethane-d4

Concen: 58.363 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VD073795.D

Acq: 06 Jul 2022 16:46

Instrument :

MSVOA_D

ClientSampleId :

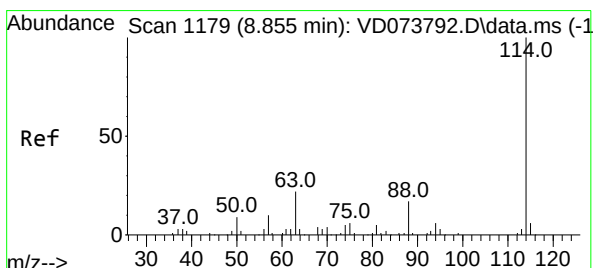
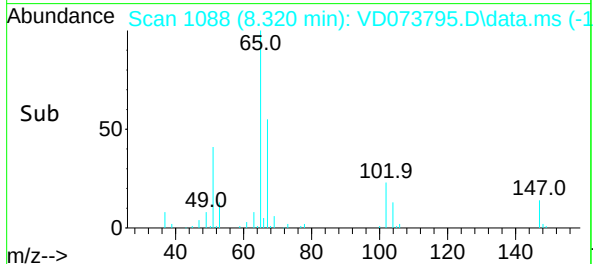
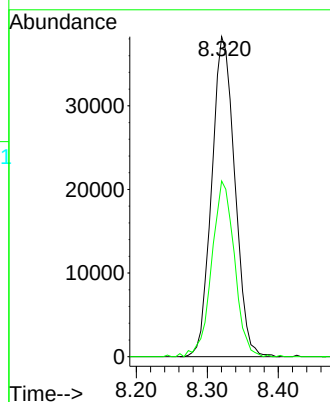
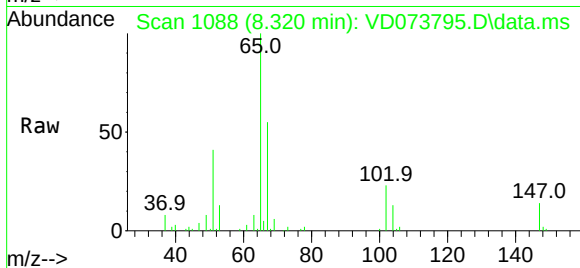
VIBLK

Tgt Ion: 65 Resp: 86390

Ion Ratio Lower Upper

65 100

67 54.1 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073795.D

Acq: 06 Jul 2022 16:46

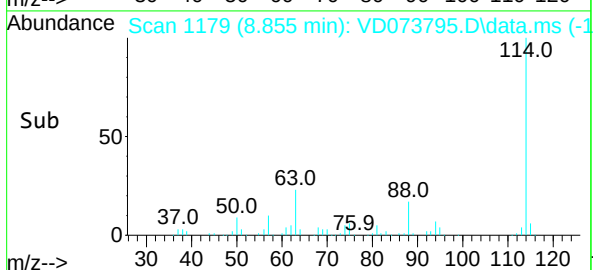
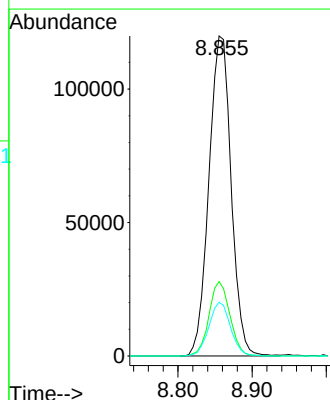
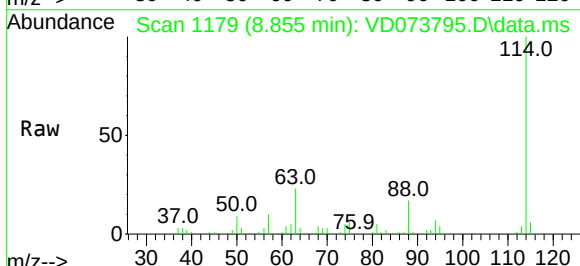
Tgt Ion: 114 Resp: 249625

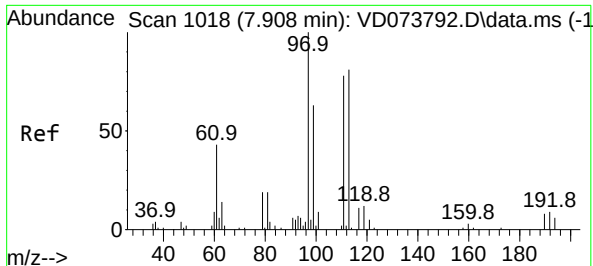
Ion Ratio Lower Upper

114 100

63 23.2 0.0 44.2

88 16.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 52.993 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073795.D

Acq: 06 Jul 2022 16:46

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

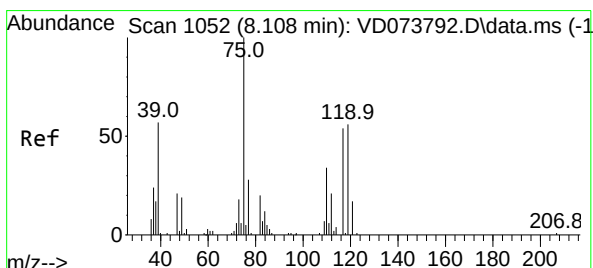
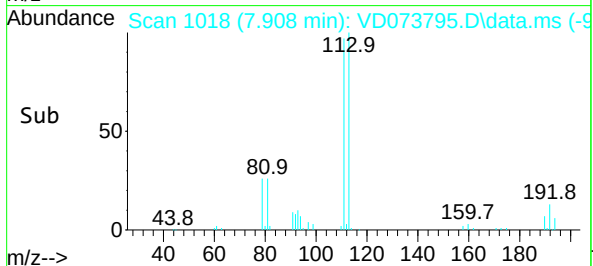
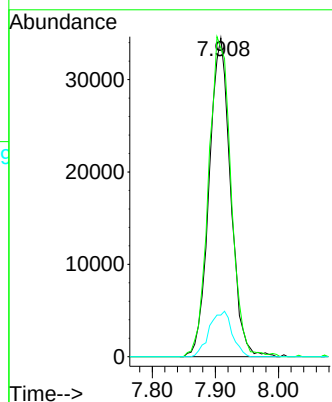
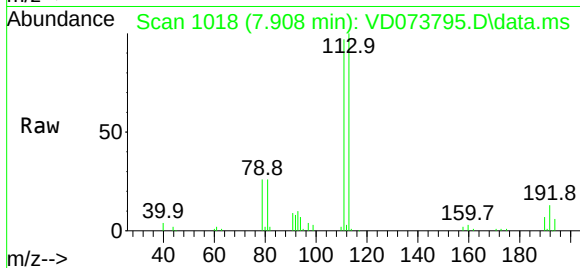
Tgt Ion:113 Resp: 81168

Ion Ratio Lower Upper

113 100

111 105.3 82.7 124.1

192 15.2 11.7 17.5



#36

1,1-Dichloropropene

Concen: 1.790 ug/l

RT: 8.103 min Scan# 1051

Delta R.T. -0.006 min

Lab File: VD073795.D

Acq: 06 Jul 2022 16:46

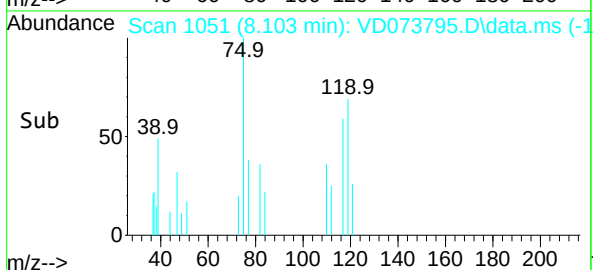
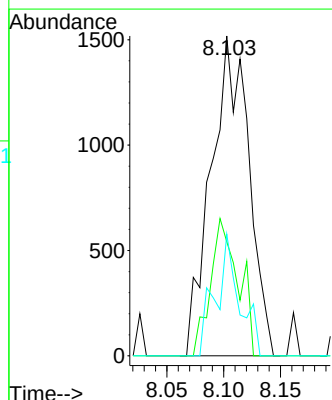
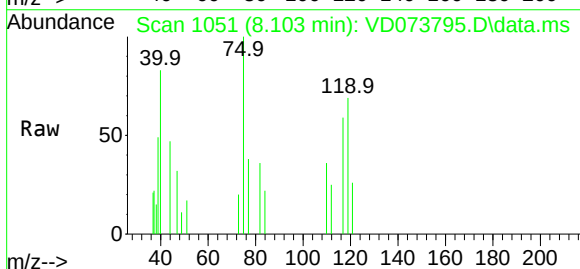
Tgt Ion: 75 Resp: 3507

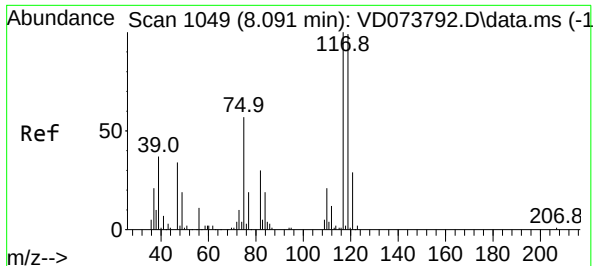
Ion Ratio Lower Upper

75 100

110 31.7 16.9 50.7

77 24.0 24.8 37.2#

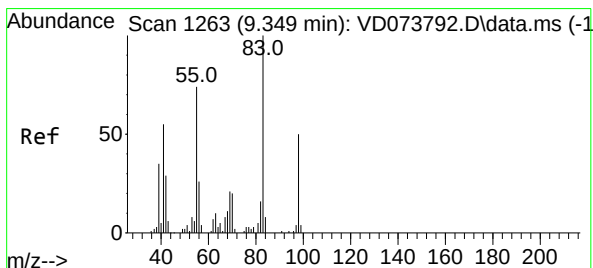
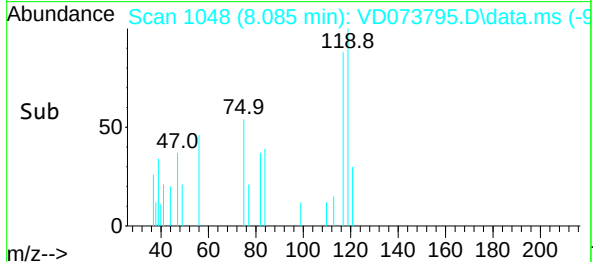
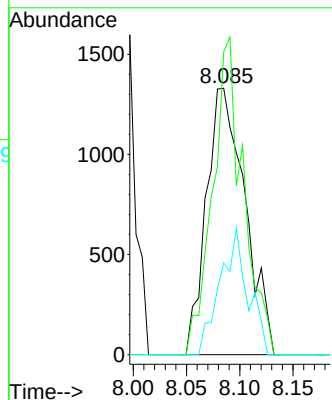
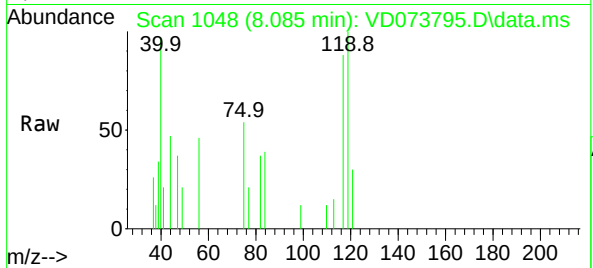




#38
Carbon Tetrachloride
Concen: 1.509 ug/l
RT: 8.085 min Scan# 1048
Delta R.T. -0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

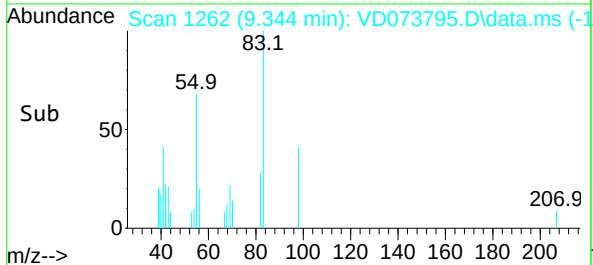
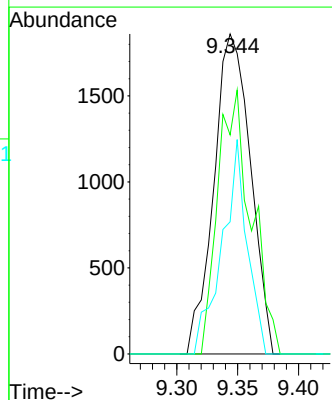
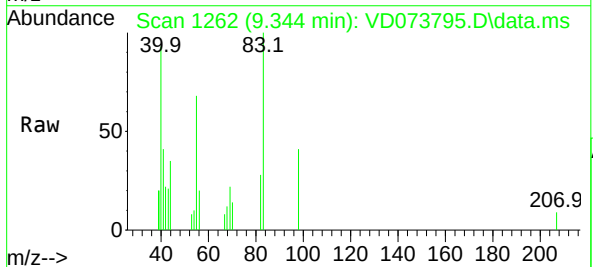
Instrument :
MSVOA_D
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VIBLK

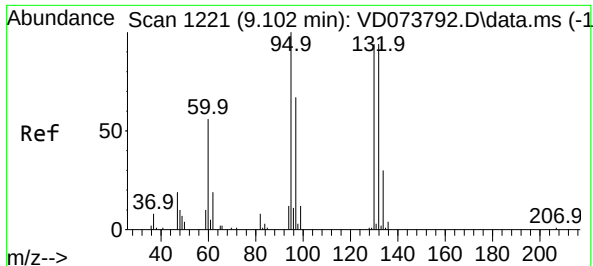
Tgt Ion:117 Resp: 3362
Ion Ratio Lower Upper
117 100
119 113.7 79.3 118.9
121 34.5 22.9 34.3#



#39
Methylcyclohexane
Concen: 1.928 ug/l
RT: 9.344 min Scan# 1262
Delta R.T. -0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion: 83 Resp: 3902
Ion Ratio Lower Upper
83 100
55 68.4 59.3 88.9
98 41.3 40.4 60.6

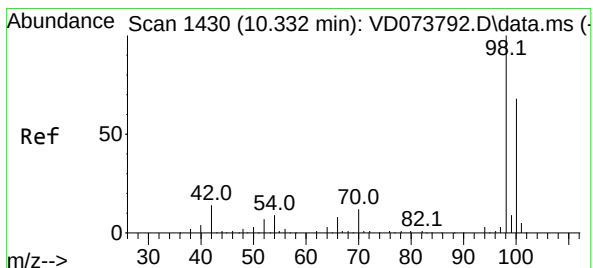
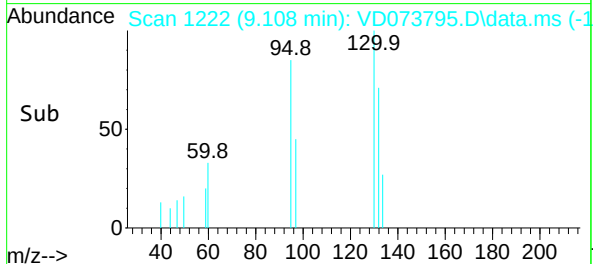
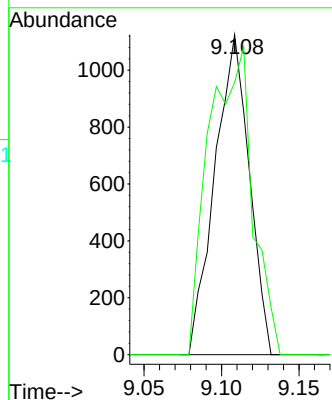
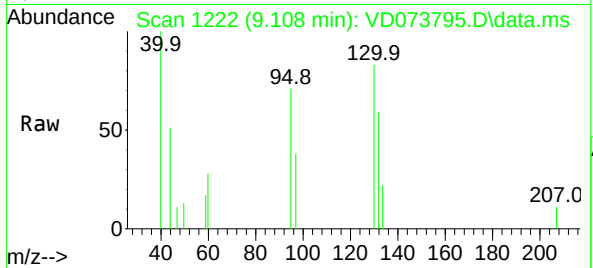




#44
Trichloroethene
Concen: 1.128 ug/l
RT: 9.108 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

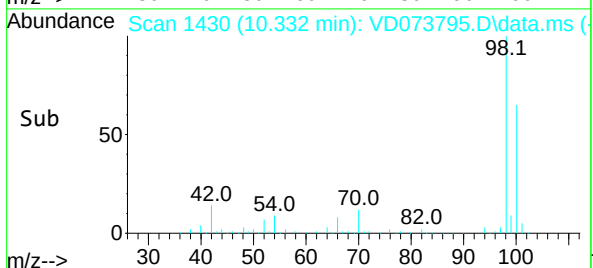
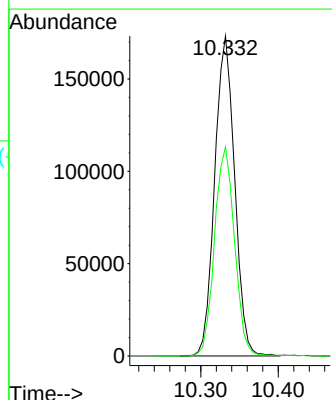
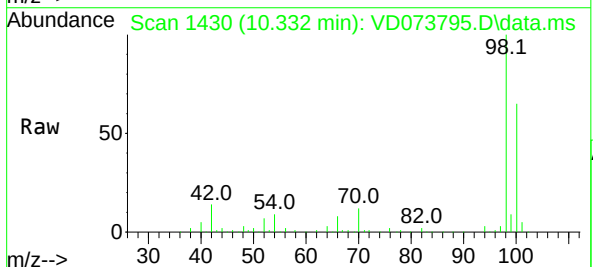
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ClientSampleId :
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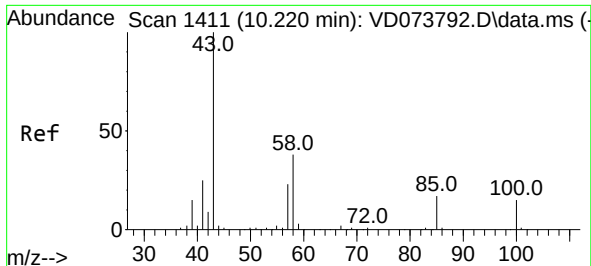
Tgt Ion:130 Resp: 1737
Ion Ratio Lower Upper
130 100
95 85.0 0.0 212.6



#50
Toluene-d8
Concen: 59.662 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion: 98 Resp: 309570
Ion Ratio Lower Upper
98 100
100 65.6 51.9 77.9

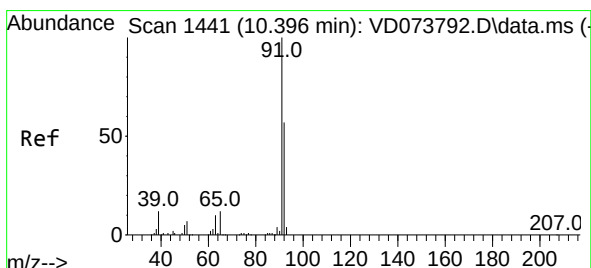
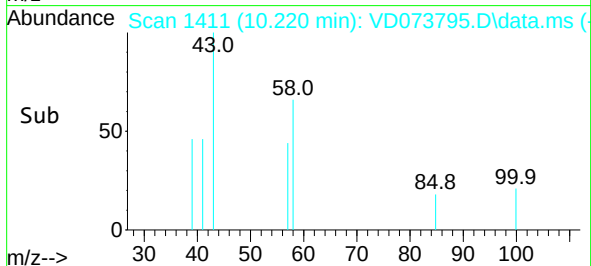
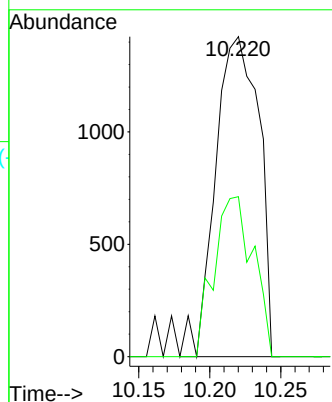
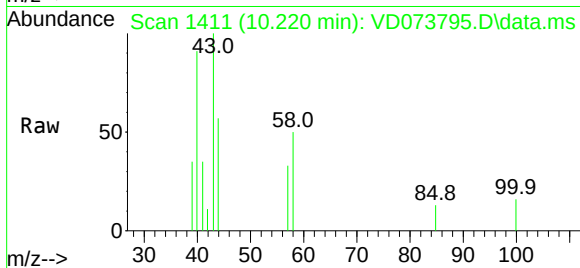




#51
4-Methyl-2-Pentanone
Concen: 2.472 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

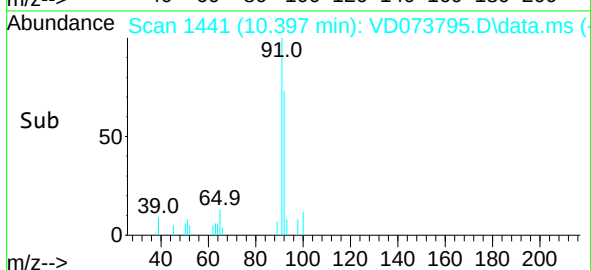
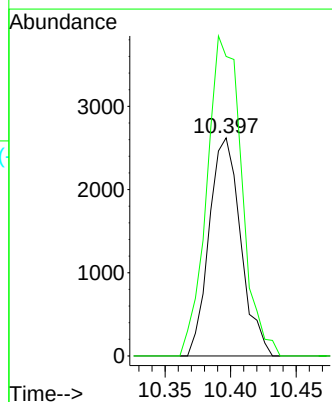
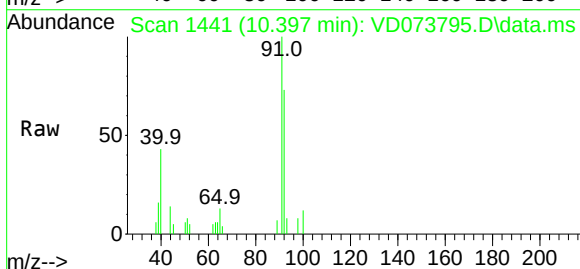
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

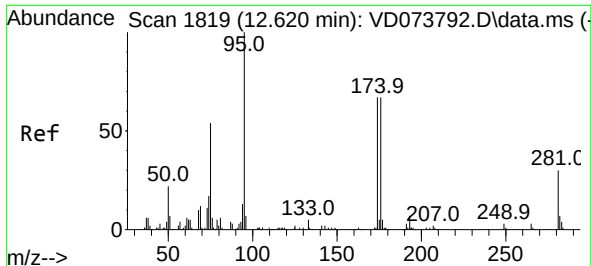
Tgt Ion: 43 Resp: 3041
Ion Ratio Lower Upper
43 100
58 45.0 30.1 45.1



#52
Toluene
Concen: 1.144 ug/l
RT: 10.397 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion: 92 Resp: 4383
Ion Ratio Lower Upper
92 100
91 161.7 137.4 206.0

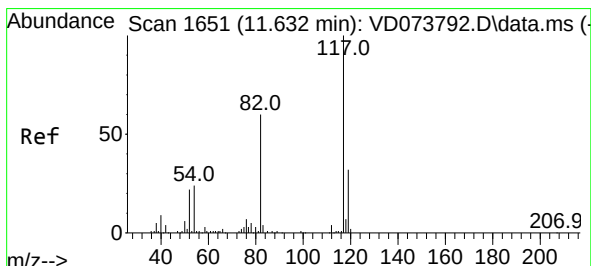
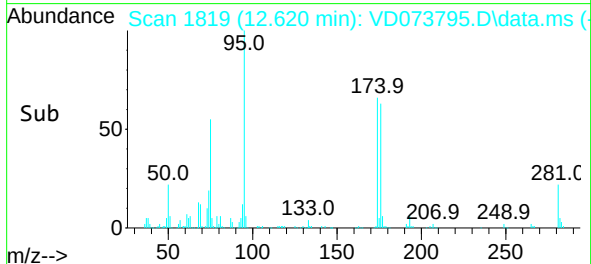
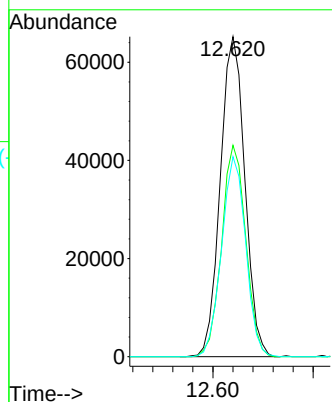
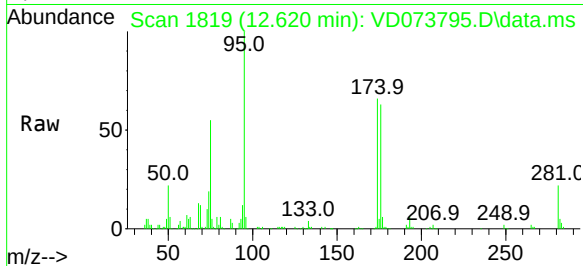




#62
4-Bromofluorobenzene
Concen: 51.906 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

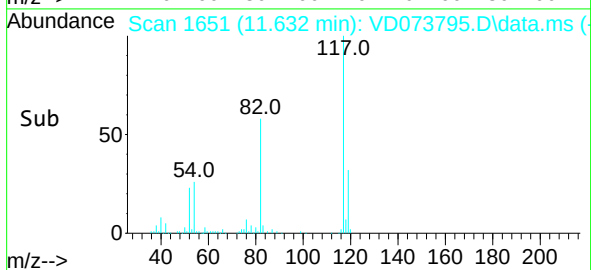
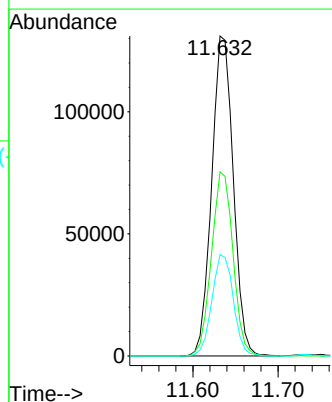
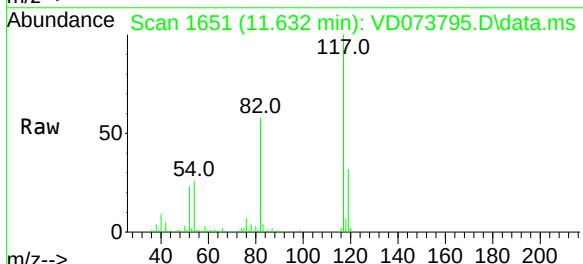
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

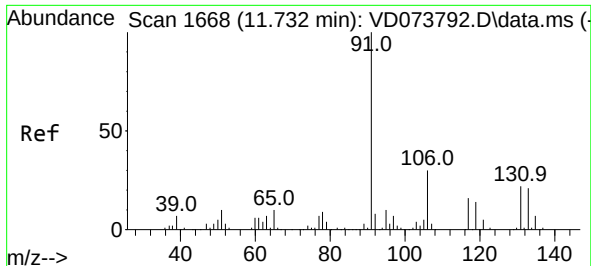
Tgt Ion: 95 Resp: 110704
Ion Ratio Lower Upper
95 100
174 64.9 0.0 132.4
176 61.3 0.0 129.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion: 117 Resp: 231011
Ion Ratio Lower Upper
117 100
82 57.6 48.2 72.2
119 31.7 25.2 37.8

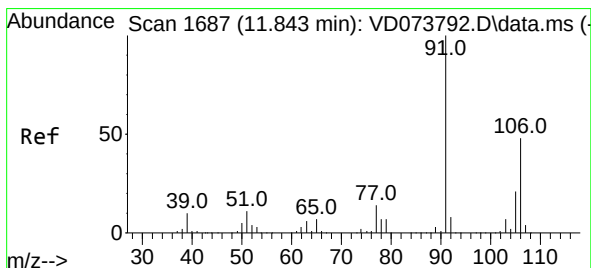
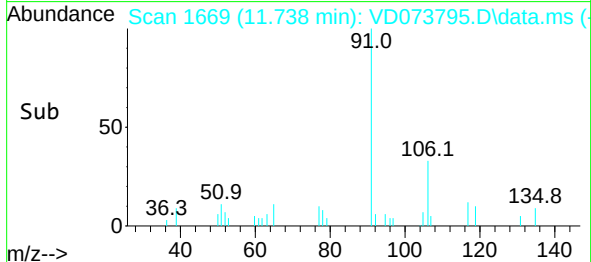
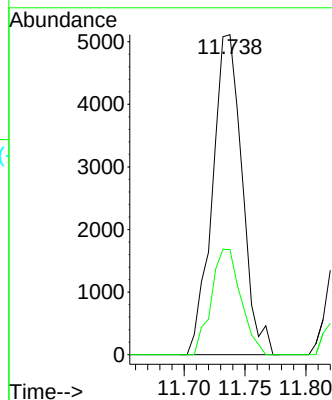
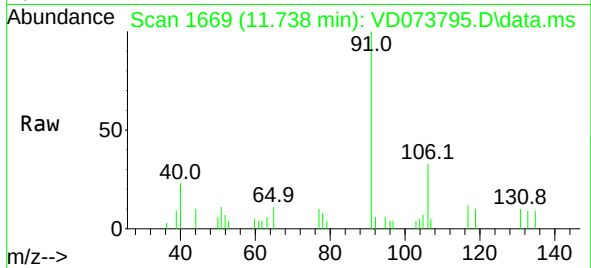




#67
Ethyl Benzene
Concen: 1.088 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

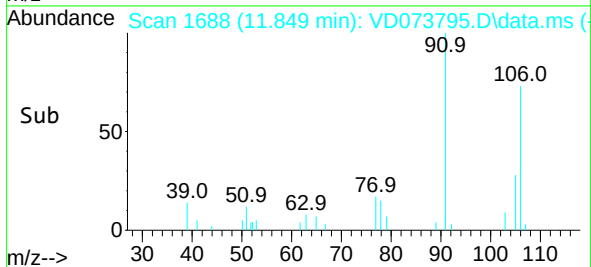
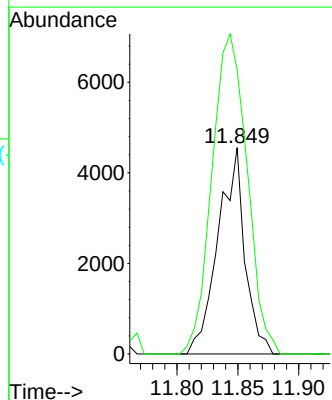
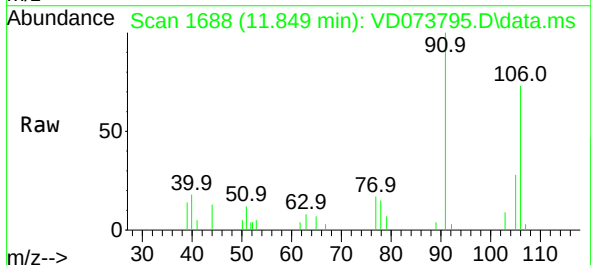
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

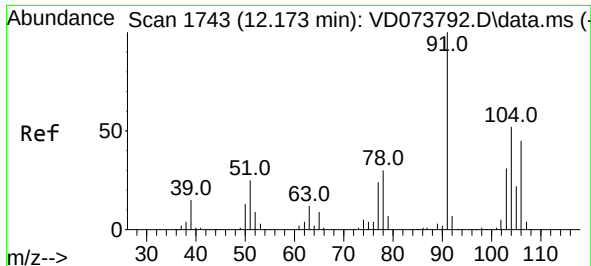
Tgt Ion: 91 Resp: 8707
Ion Ratio Lower Upper
91 100
106 32.8 24.1 36.1



#68
m/p-Xylenes
Concen: 2.303 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion: 106 Resp: 6971
Ion Ratio Lower Upper
106 100
91 203.4 165.4 248.2

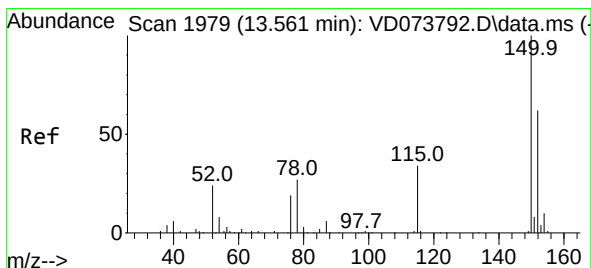
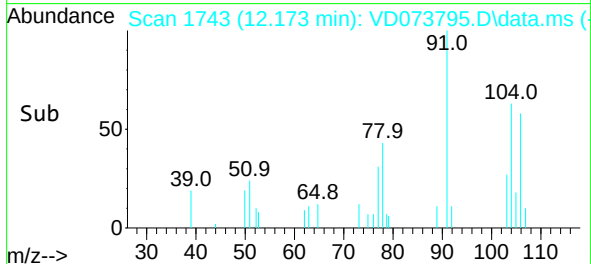
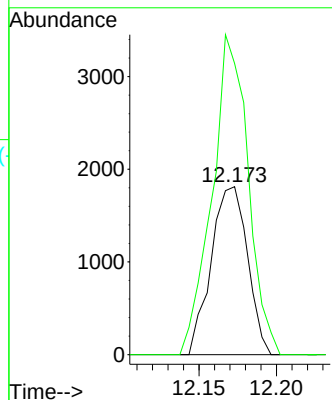
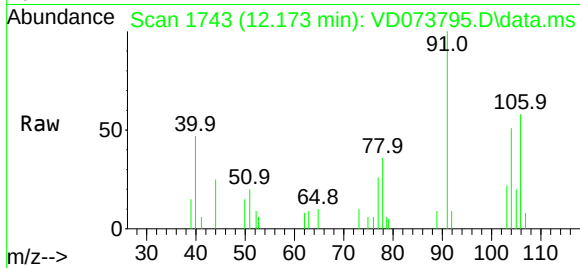




#69
o-Xylene
Concen: 1.014 ug/l
RT: 12.173 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

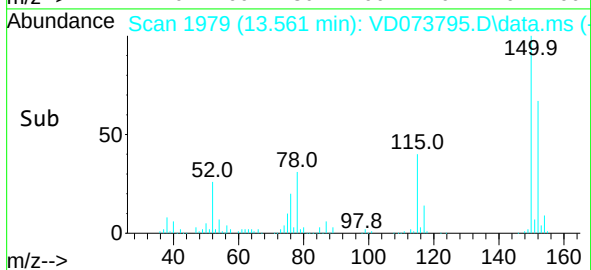
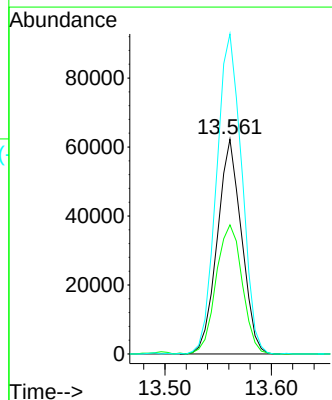
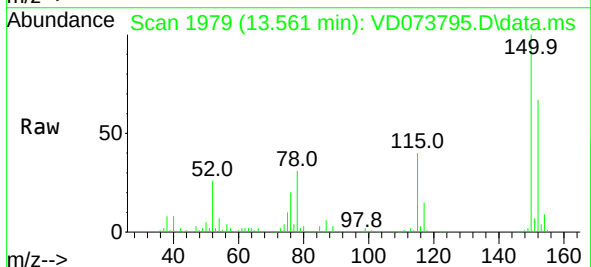
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

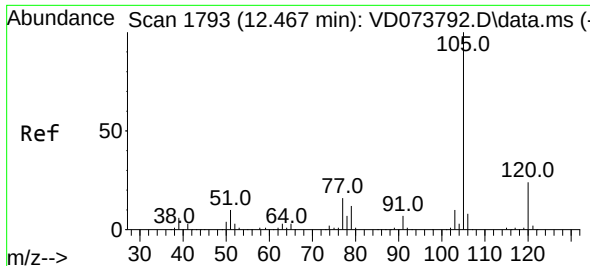
Tgt Ion:106 Resp: 2955
Ion Ratio Lower Upper
106 100
91 188.8 112.3 336.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion:152 Resp: 98389
Ion Ratio Lower Upper
152 100
115 64.8 32.2 96.6
150 155.5 0.0 353.0

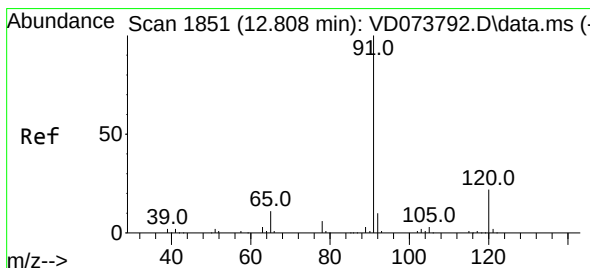
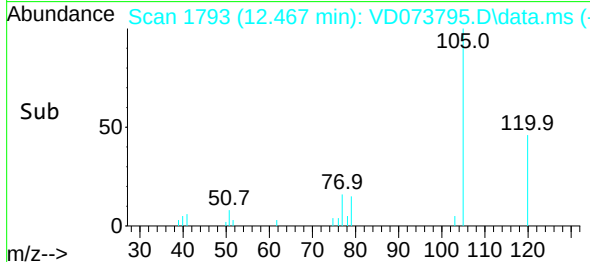
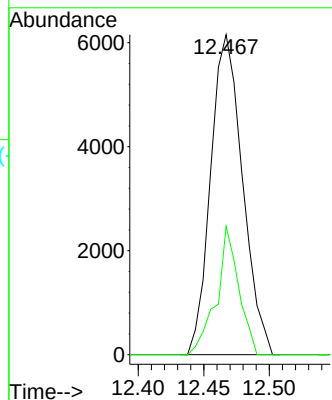
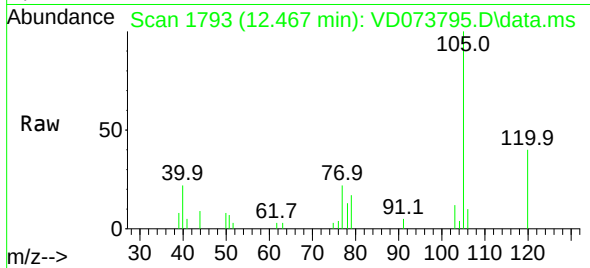




#73
Isopropylbenzene
Concen: 1.372 ug/l
RT: 12.467 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

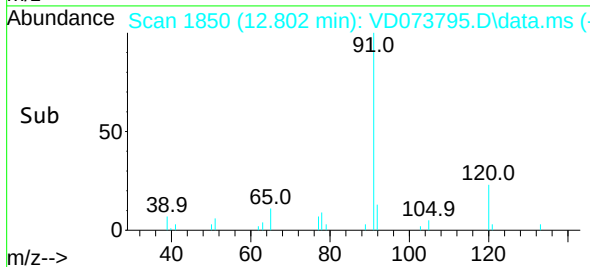
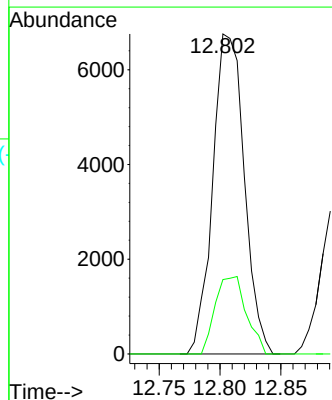
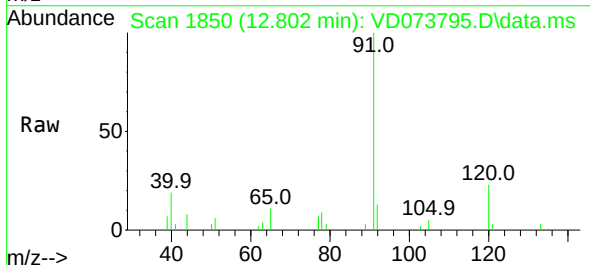
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

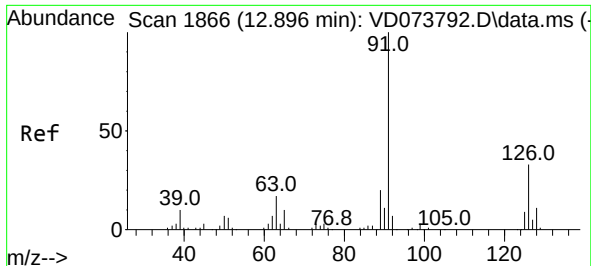
Tgt Ion:105 Resp: 10394
Ion Ratio Lower Upper
105 100
120 27.9 12.9 38.7



#78
n-propylbenzene
Concen: 1.280 ug/l
RT: 12.802 min Scan# 1850
Delta R.T. -0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion: 91 Resp: 12153
Ion Ratio Lower Upper
91 100
120 23.9 10.9 32.7

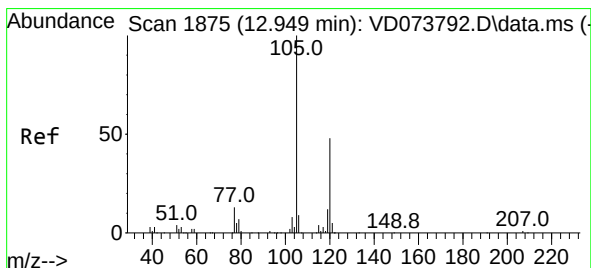
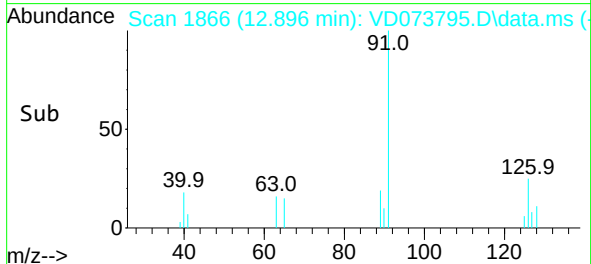
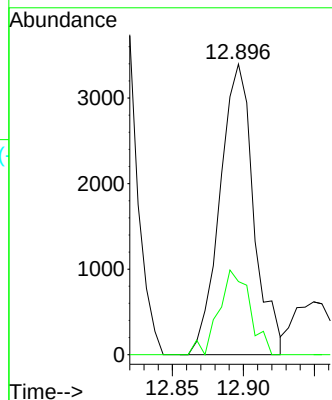
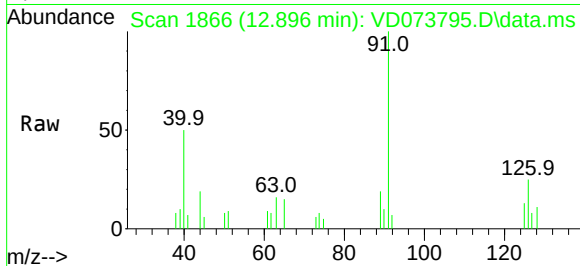




#79
2-Chlorotoluene
Concen: 1.049 ug/l
RT: 12.896 min Scan# 1866
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

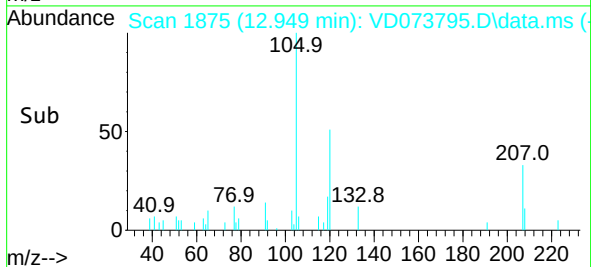
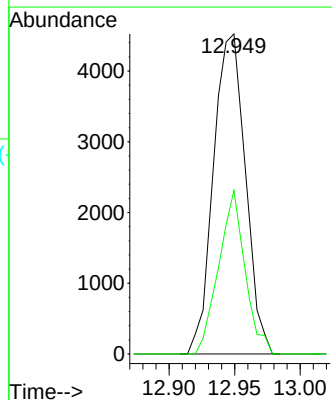
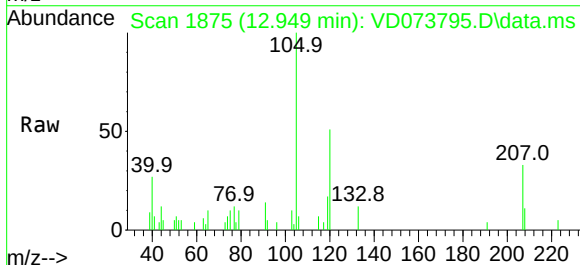
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

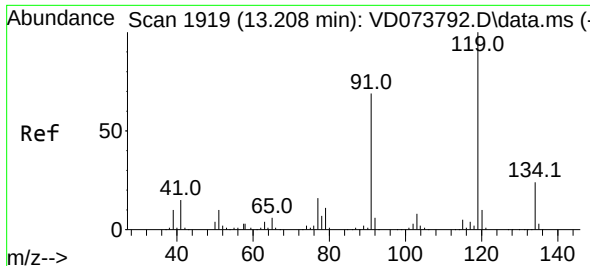
Tgt Ion: 91 Resp: 5634
Ion Ratio Lower Upper
91 100
126 26.9 16.1 48.2



#80
1,3,5-Trimethylbenzene
Concen: 1.211 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion: 105 Resp: 7664
Ion Ratio Lower Upper
105 100
120 42.1 23.8 71.4

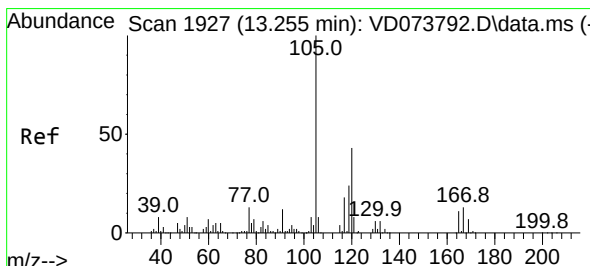
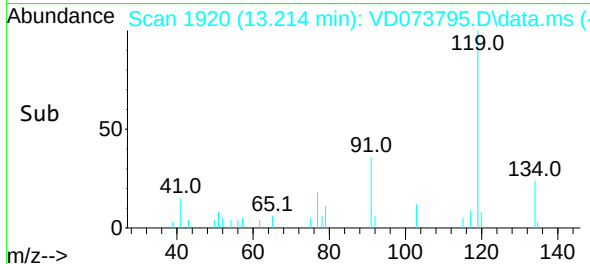
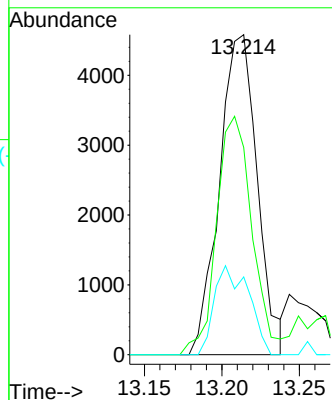
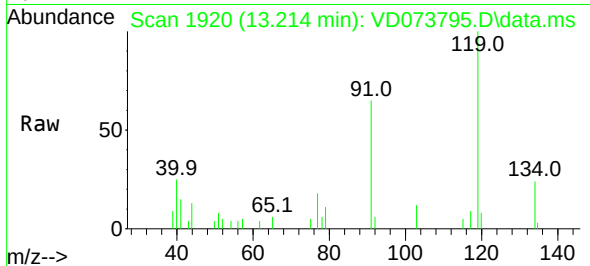




#83
tert-Butylbenzene
Concen: 1.389 ug/l
RT: 13.214 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

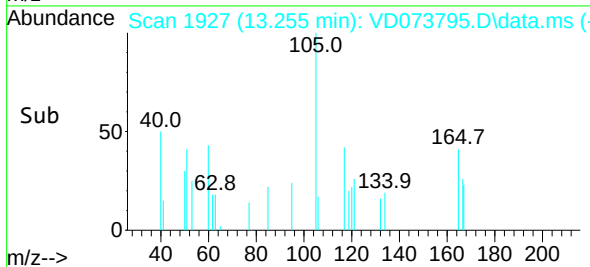
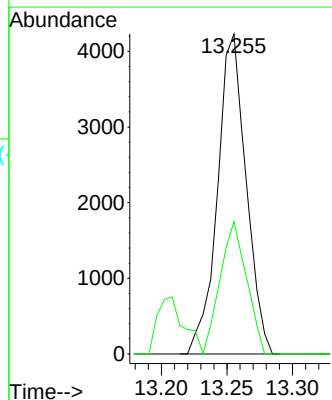
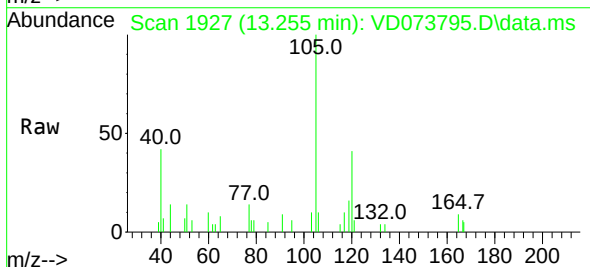
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

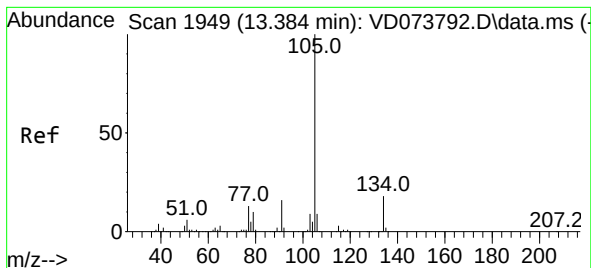
Tgt Ion:119 Resp: 7790
Ion Ratio Lower Upper
119 100
91 69.6 33.7 101.1
134 25.3 12.4 37.0



#84
1,2,4-Trimethylbenzene
Concen: 1.024 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VD073795.D
Acq: 06 Jul 2022 16:46

Tgt Ion:105 Resp: 6418
Ion Ratio Lower Upper
105 100
120 38.2 22.1 66.5





#85

sec-Butylbenzene

Concen: 1.423 ug/l

RT: 13.385 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VD073795.D

Acq: 06 Jul 2022 16:46

Instrument :

MSVOA_D

ClientSampleId :

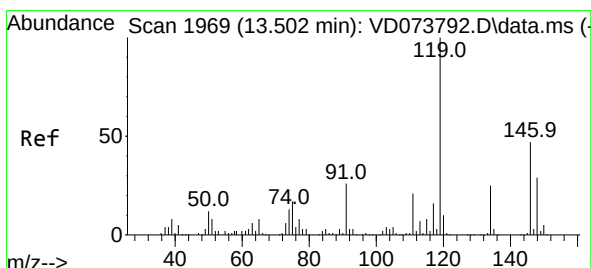
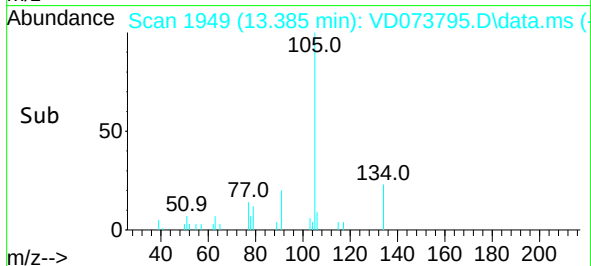
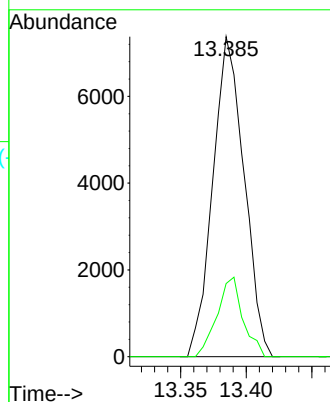
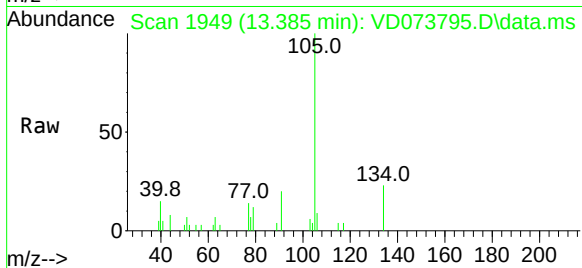
VIBLK

Tgt Ion:105 Resp: 12213

Ion Ratio Lower Upper

105 100

134 20.6 9.4 28.2



#86

p-Isopropyltoluene

Concen: 1.333 ug/l

RT: 13.496 min Scan# 1968

Delta R.T. -0.006 min

Lab File: VD073795.D

Acq: 06 Jul 2022 16:46

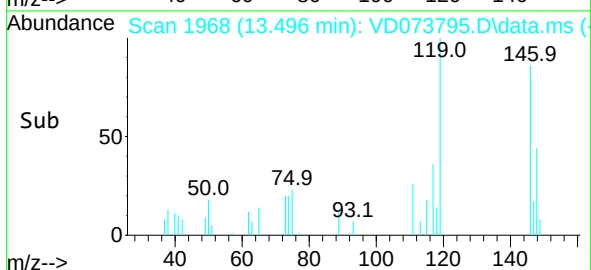
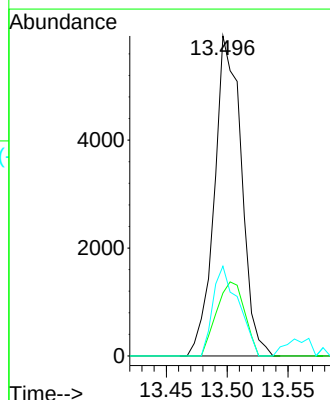
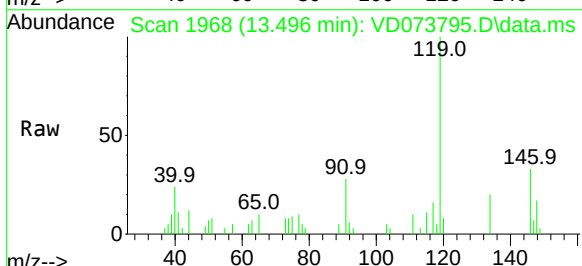
Tgt Ion:119 Resp: 9122

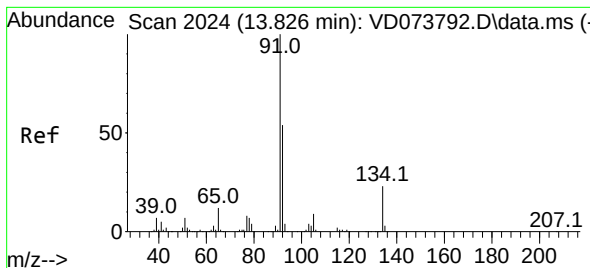
Ion Ratio Lower Upper

119 100

134 24.0 12.7 38.1

91 26.4 13.2 39.6





#89

n-Butylbenzene

Concen: 1.405 ug/l

RT: 13.826 min Scan# 20

Delta R.T. 0.000 min

Lab File: VD073795.D

Acq: 06 Jul 2022 16:46

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

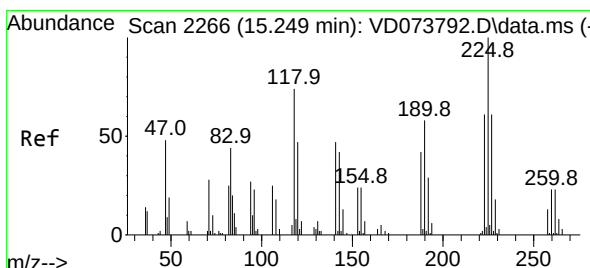
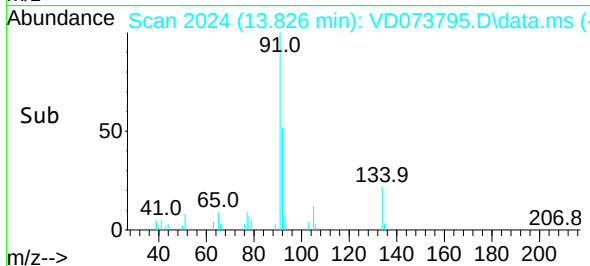
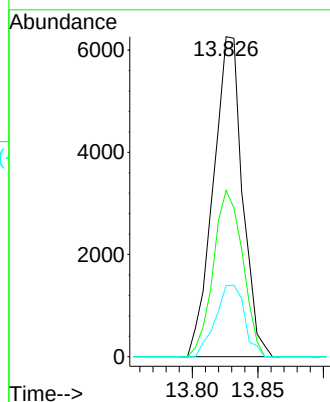
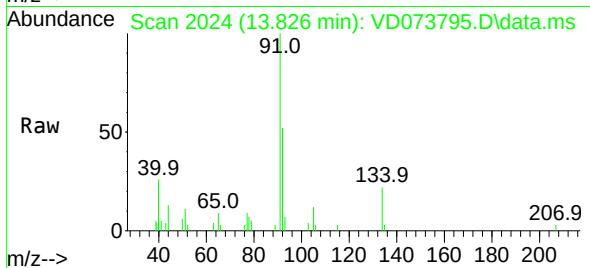
Tgt Ion: 91 Resp: 9713

Ion Ratio Lower Upper

91 100

92 52.1 26.9 80.6

134 22.1 11.9 35.9



#94

Hexachlorobutadiene

Concen: 1.447 ug/l

RT: 15.249 min Scan# 2266

Delta R.T. 0.000 min

Lab File: VD073795.D

Acq: 06 Jul 2022 16:46

Tgt Ion: 225 Resp: 1168

Ion Ratio Lower Upper

225 100

223 49.0 31.5 94.5

227 77.9 31.6 94.7

