

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121121\
 Data File : VD071269.D
 Acq On : 11 Dec 2021 14:55
 Operator : VA/SY
 Sample : M5018-59
 Misc : 5.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 12 17:52:25 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

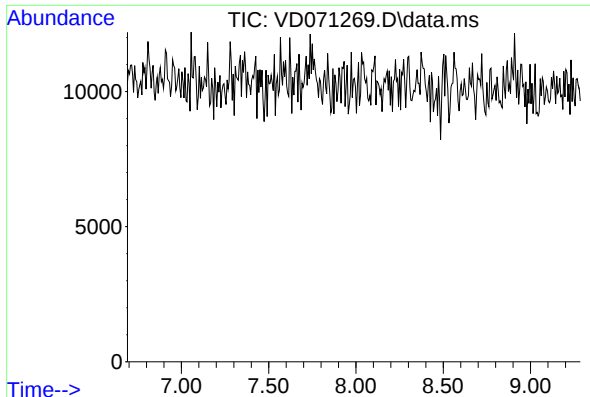
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	0.000	168	0	0.000	ug/l	-7.99
34) 1,4-Difluorobenzene	0.000	114	0	0.000	ug/l	-8.86
63) Chlorobenzene-d5	11.667	117	151	50.000	ug/l	# 0.03
72) 1,4-Dichlorobenzene-d4	13.402	152	72	50.000	ug/l	#-0.16
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.297	65	58	0.000	ug/l	-0.03
Spiked Amount	50.000	Range	50 - 163	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0	0.000	ug/l	
Spiked Amount	50.000	Range	54 - 147	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0	0.000	ug/l	
Spiked Amount	50.000	Range	49 - 140	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	12.632	95	176	0.000	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	0.000%#
Target Compounds						
					Qvalue	
64) Tetrachloroethene	10.979	164	65	67.806	ug/l #	1
65) Chlorobenzene	11.673	112	70	24.985	ug/l #	42
66) 1,1,1,2-Tetrachloroethane	11.761	131	85	83.092	ug/l #	30
67) Ethyl Benzene	11.738	91	134	25.406	ug/l #	44
68) m/p-Xylenes	11.638	106	93	46.705	ug/l	92
69) o-Xylene	12.238	106	66	35.266	ug/l	37
71) Bromoform	12.473	173	64	120.764	ug/l #	29
73) Isopropylbenzene	12.473	105	133	25.511	ug/l #	49
74) N-amyl acetate	12.279	43	138	91.360	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.732	83	79	92.017	ug/l #	83
77) Bromobenzene	12.938	156	1383	1224.744	ug/l #	1
78) n-propylbenzene	13.014	91	434	66.847	ug/l	85
79) 2-Chlorotoluene	12.902	91	198	54.337	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.949	105	171	39.776	ug/l #	28
82) 4-Chlorotoluene	12.985	91	268	70.844	ug/l #	42
83) tert-Butylbenzene	13.196	119	335	90.736	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.226	105	136	32.403	ug/l #	31
85) sec-Butylbenzene	13.332	105	82	14.542	ug/l #	57
86) p-Isopropyltoluene	13.526	119	542	117.516	ug/l #	57
87) 1,3-Dichlorobenzene	13.602	146	59	26.247	ug/l #	25
88) 1,4-Dichlorobenzene	13.602	146	59	26.492	ug/l #	25
89) n-Butylbenzene	13.838	91	165	36.648	ug/l #	32
90) Hexachloroethane	14.114	117	55	62.907	ug/l #	14
91) 1,2-Dichlorobenzene	14.090	146	66	34.526	ug/l #	1

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

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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



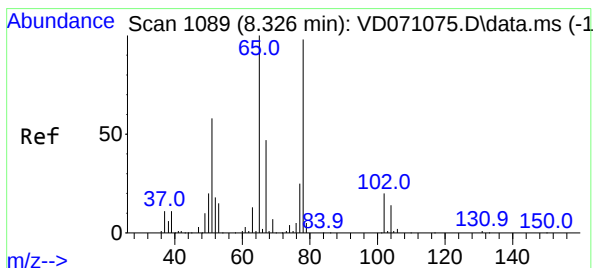
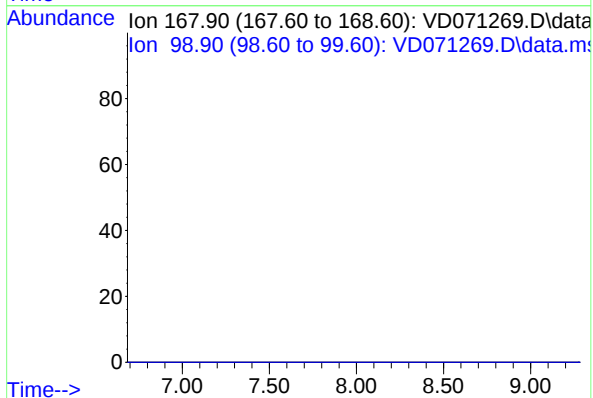


#1
Pentafluorobenzene
Concen: 0.000 ug/l
Expected RT: 7.99 min

Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

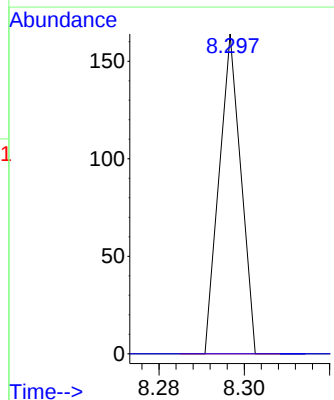
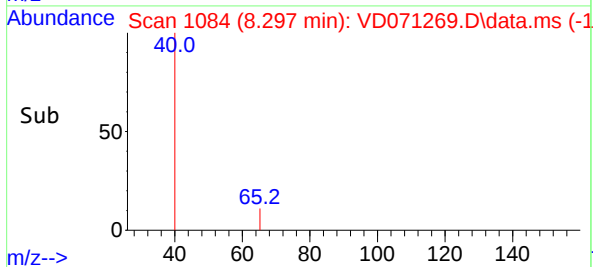
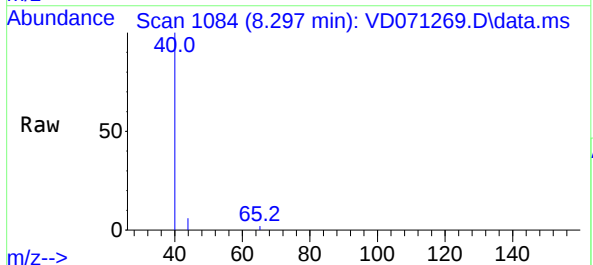
Instrument :
MSVOA_D
ClientSampleId :

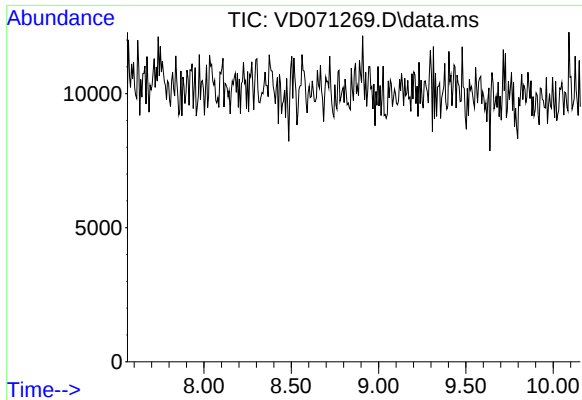
Tgt Ion: 168
Sig Exp Ratio
168 100
99 58.2



#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
RT: 8.297 min Scan# 1084
Delta R.T. -0.029 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Tgt Ion: 65 Resp: 58
Ion Ratio Lower Upper
65 100
67 0.0 0.0 112.2



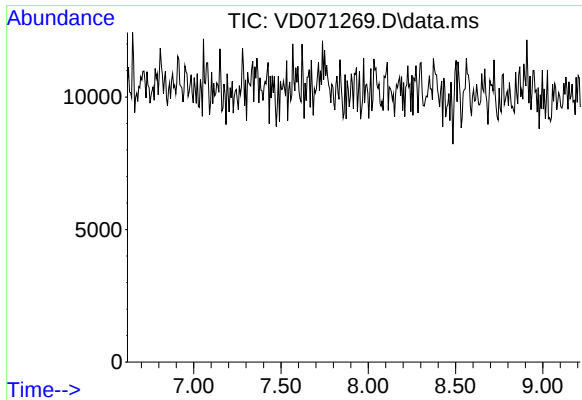
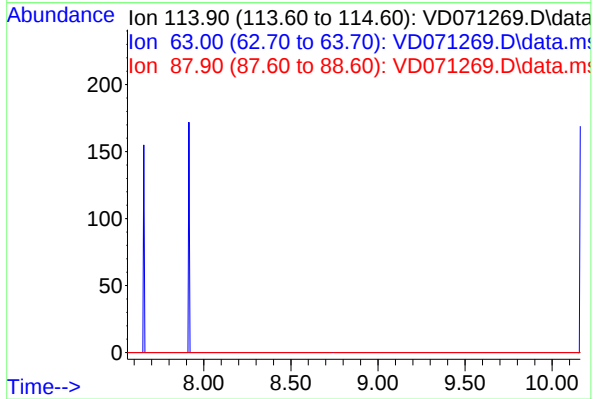


#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 8.86 min
 Lab File: VD071269.D
 Acq: 11 Dec 2021 14:55

Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion: 114

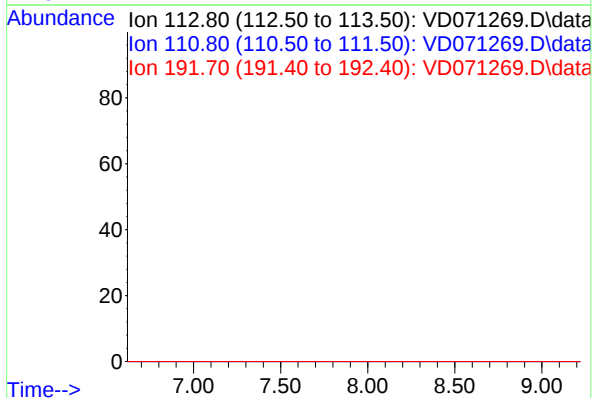
Sig	Exp Ratio
114	100
63	20.9
88	16.4

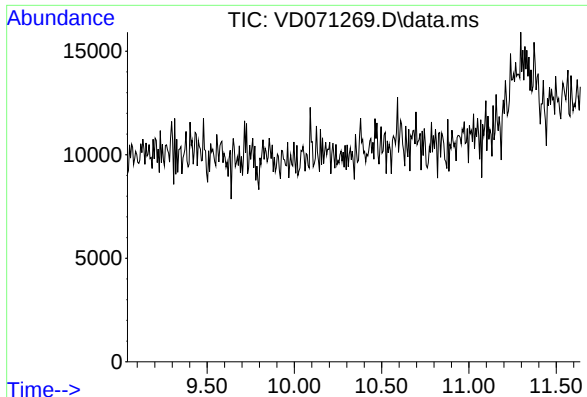


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.92 min
 Lab File: VD071269.D
 Acq: 11 Dec 2021 14:55

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.5
192	19.0



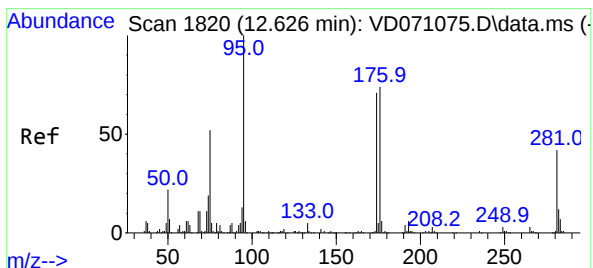
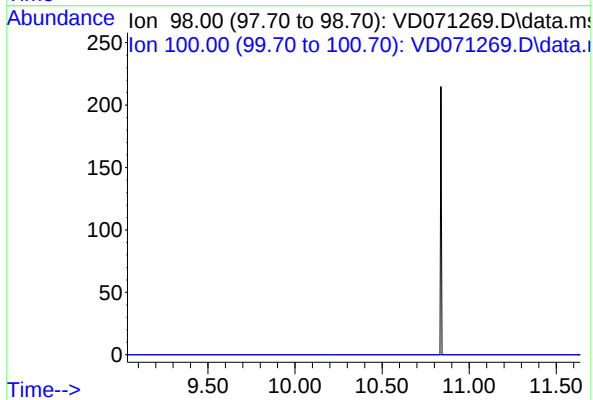


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.34 min

Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

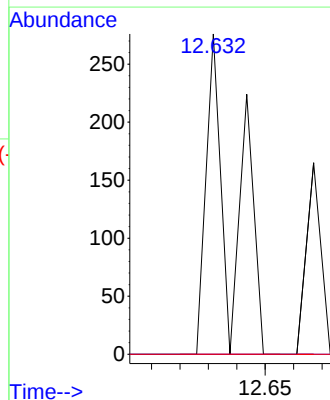
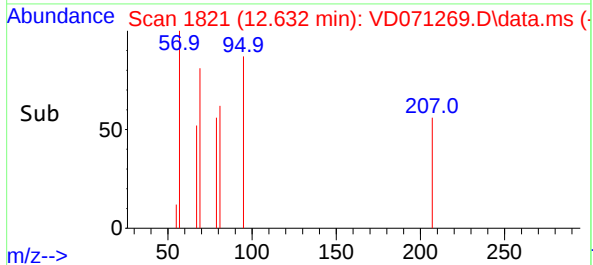
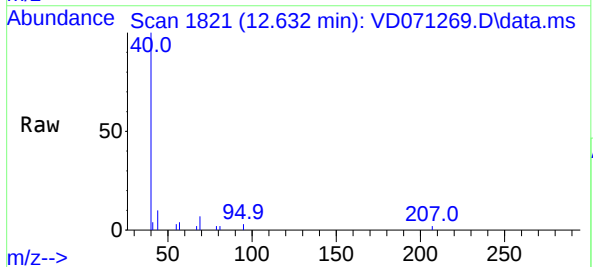
Instrument :
MSVOA_D
ClientSampleId :

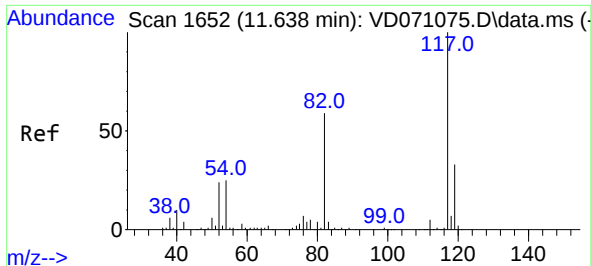
Tgt Ion: 98
Sig Exp Ratio
98 100
100 64.7



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

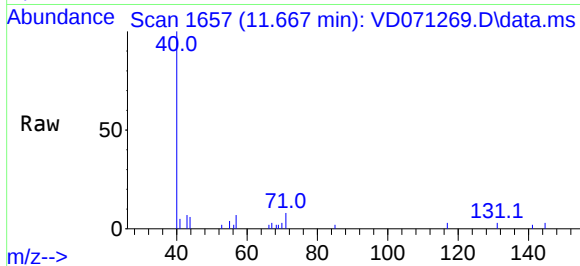
Tgt Ion: 95 Resp: 176
Ion Ratio Lower Upper
95 100
174 0.0 0.0 159.4
176 0.0 0.0 154.0



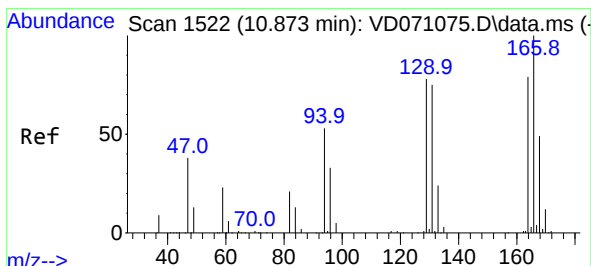
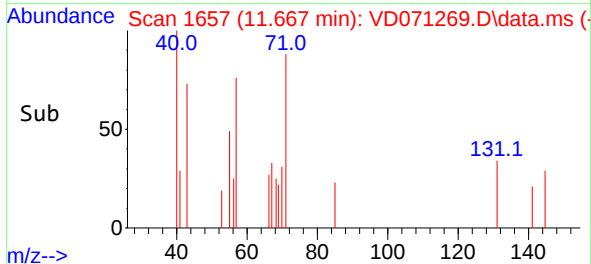
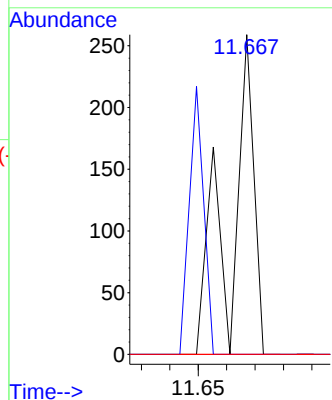


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.667 min Scan# 1
Delta R.T. 0.029 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Instrument :
MSVOA_D
ClientSampleId :

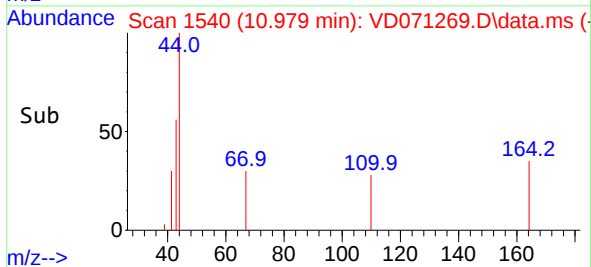
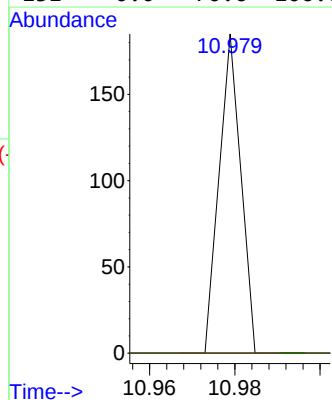
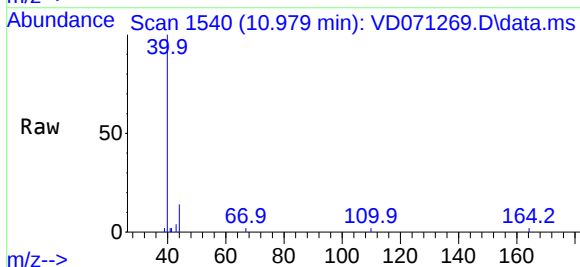


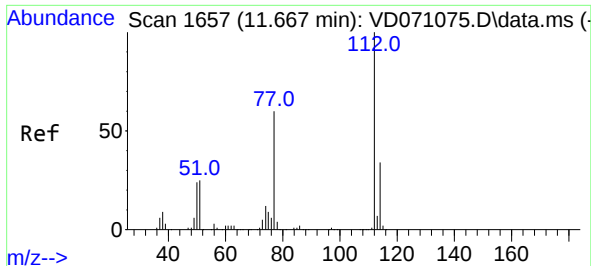
Tgt Ion:	117	Resp:	151
Ion	Ratio	Lower	Upper
117	100		
82	0.0	44.7	67.1#
119	0.0	26.2	39.4#



#64
Tetrachloroethene
Concen: 67.806 ug/l
RT: 10.979 min Scan# 1540
Delta R.T. 0.106 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

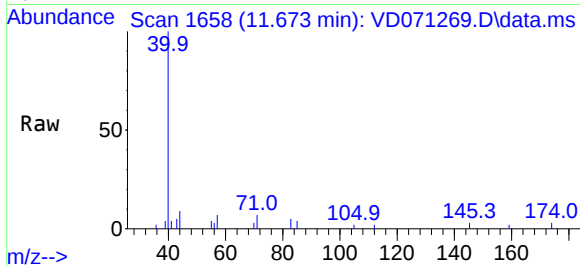
Tgt Ion:	164	Resp:	65
Ion	Ratio	Lower	Upper
164	100		
166	0.0	102.6	153.8#
129	0.0	75.4	113.0#
131	0.0	70.6	106.0#



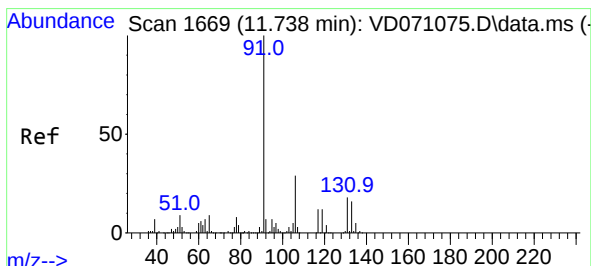
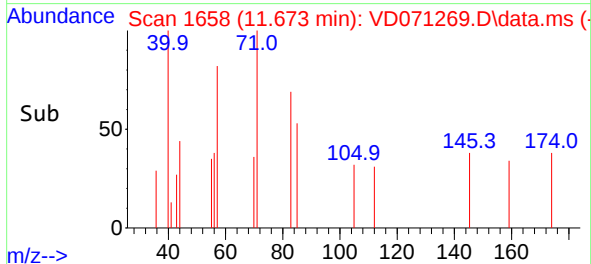
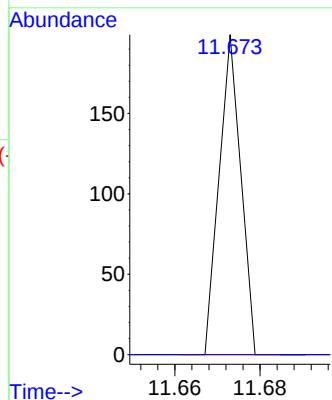


#65
Chlorobenzene
Concen: 24.985 ug/l
RT: 11.673 min Scan# 1658
Delta R.T. 0.006 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Instrument :
MSVOA_D
ClientSampleId :

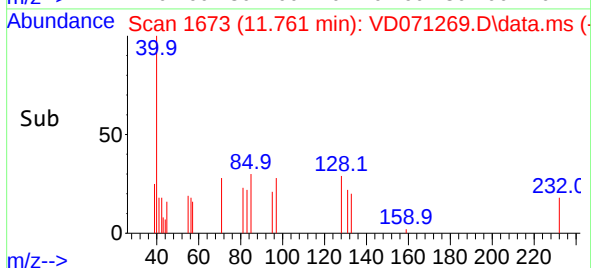
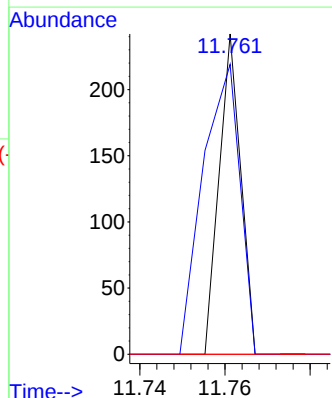
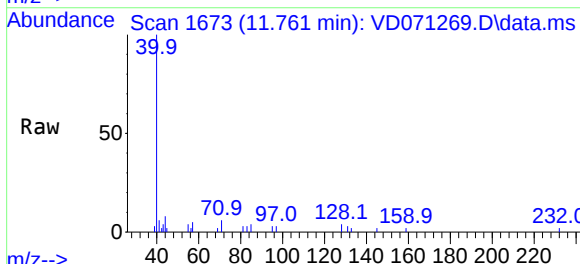


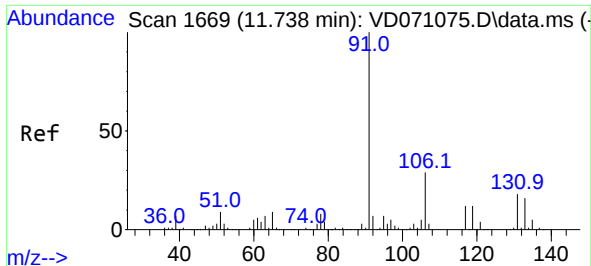
Tgt Ion:112 Resp: 70
Ion Ratio Lower Upper
112 100
114 0.0 26.0 39.0#



#66
1,1,1,2-Tetrachloroethane
Concen: 83.092 ug/l
RT: 11.761 min Scan# 1673
Delta R.T. 0.023 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Tgt Ion:131 Resp: 85
Ion Ratio Lower Upper
131 100
133 155.3 48.0 144.0#
119 0.0 33.5 100.4#

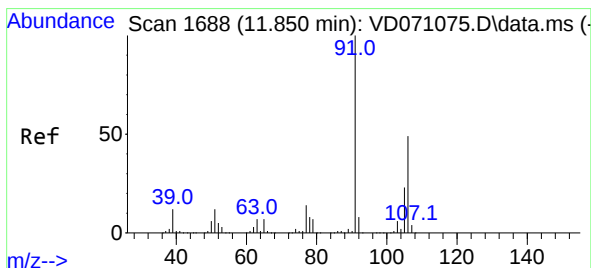
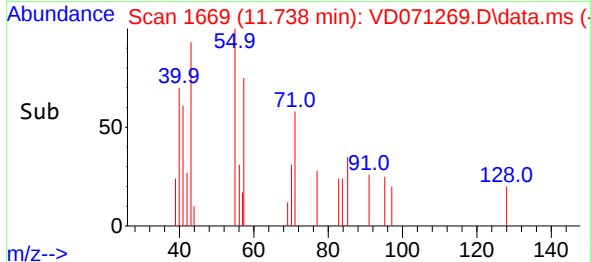
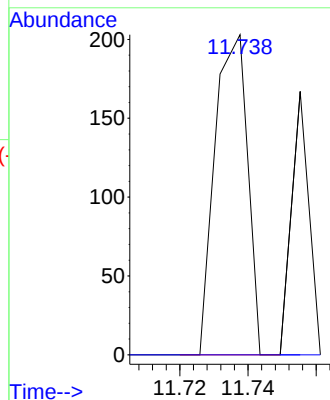
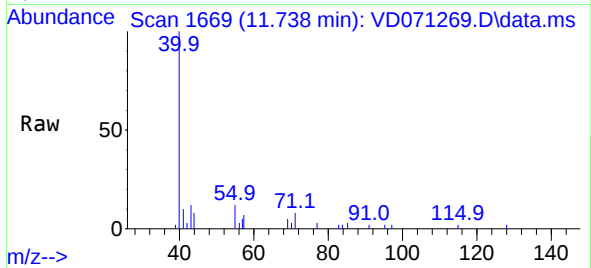




#67
Ethyl Benzene
Concen: 25.406 ug/l
RT: 11.738 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

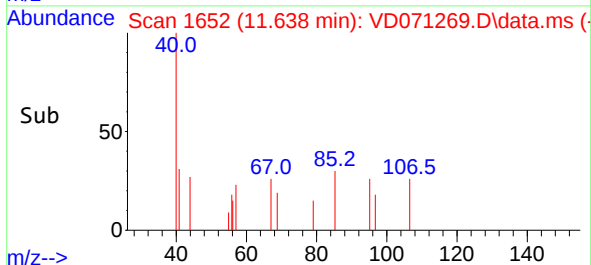
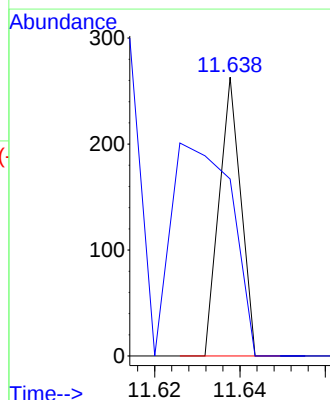
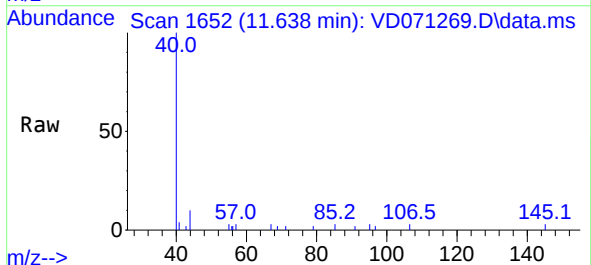
Instrument :
MSVOA_D
ClientSampleId :

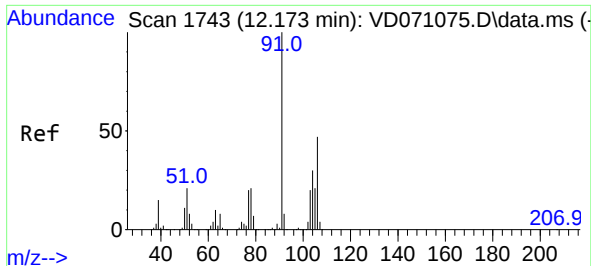
Tgt Ion: 91 Resp: 134
Ion Ratio Lower Upper
91 100
106 0.0 24.6 36.8#



#68
m/p-Xylenes
Concen: 46.705 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.212 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Tgt Ion:106 Resp: 93
Ion Ratio Lower Upper
106 100
91 211.8 160.1 240.1

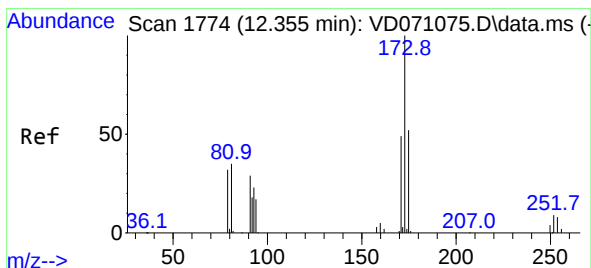
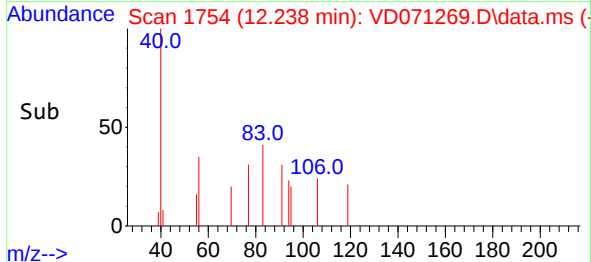
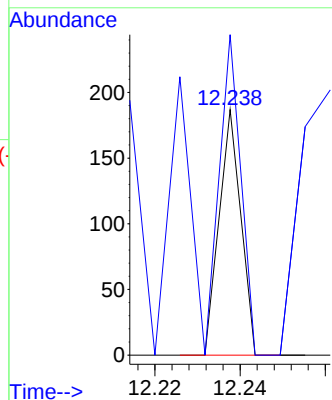
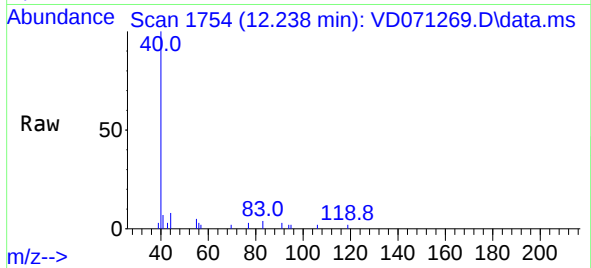




#69
o-Xylene
Concen: 35.266 ug/l
RT: 12.238 min Scan# 11
Delta R.T. 0.065 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

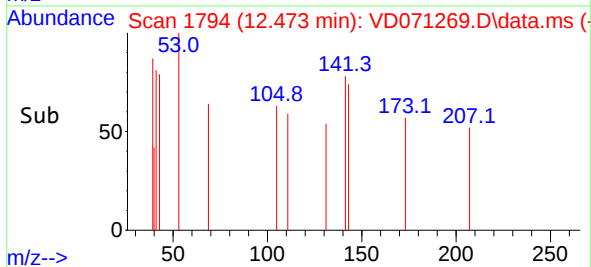
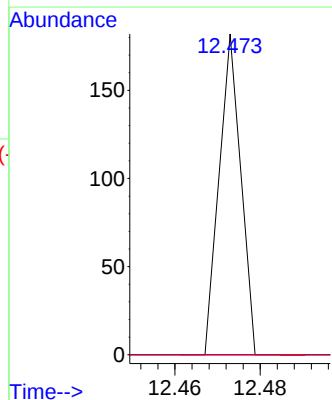
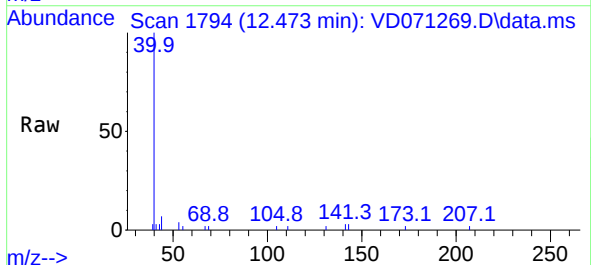
Instrument :
MSVOA_D
ClientSampleId :

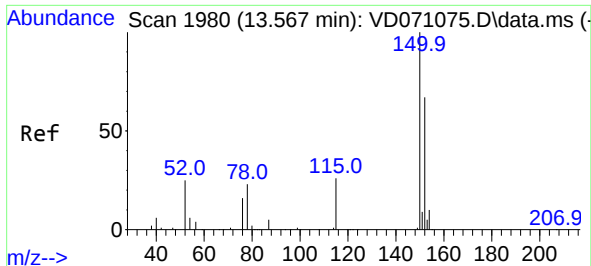
Tgt Ion:106 Resp: 66
Ion Ratio Lower Upper
106 100
91 113.6 106.3 319.0



#71
Bromoform
Concen: 120.764 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. 0.118 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

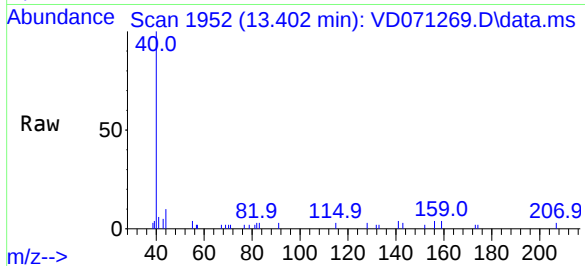
Tgt Ion:173 Resp: 64
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.2#
254 0.0 0.1 0.1#



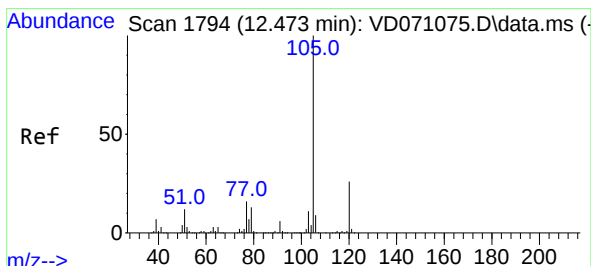
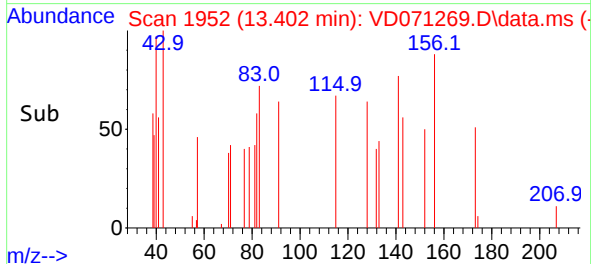
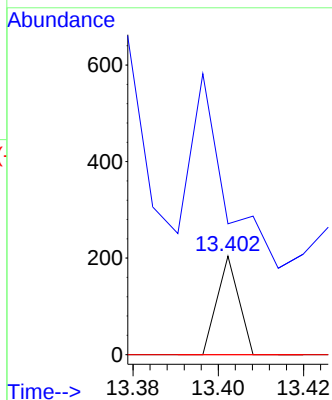


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.402 min Scan# 1952
Delta R.T. -0.165 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Instrument :
MSVOA_D
ClientSampleId :

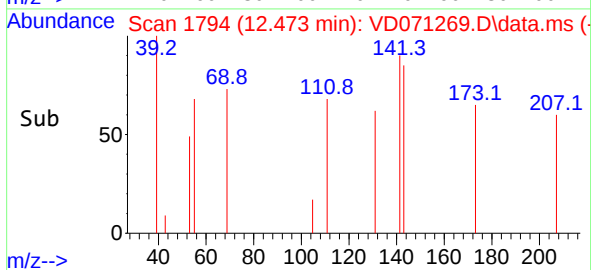
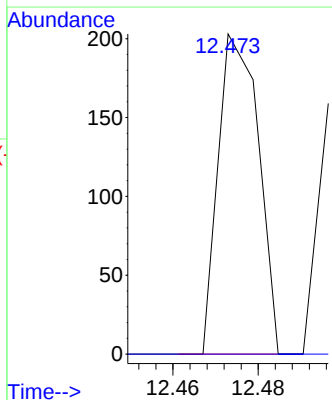
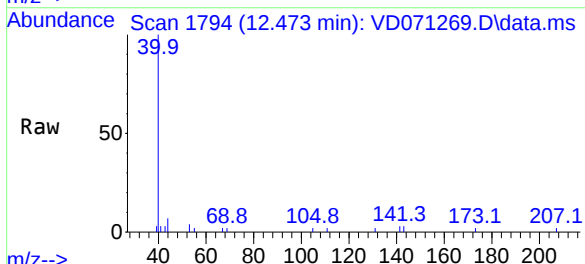


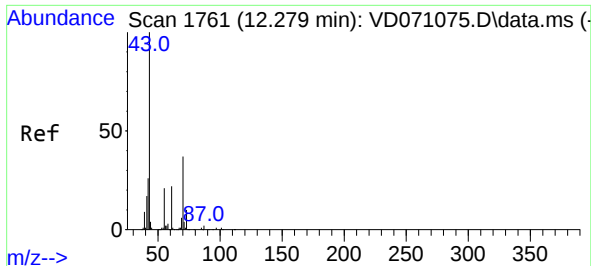
Tgt Ion:152 Resp: 72
Ion Ratio Lower Upper
152 100
115 877.8 29.8 89.3#
150 0.0 0.0 349.2



#73
Isopropylbenzene
Concen: 25.511 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

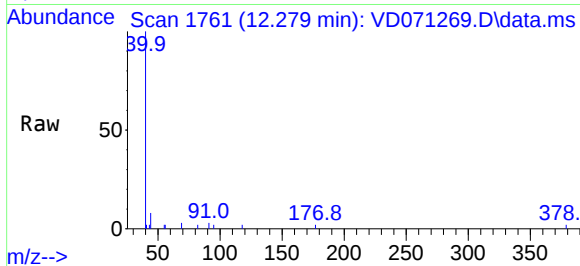
Tgt Ion:105 Resp: 133
Ion Ratio Lower Upper
105 100
120 0.0 13.2 39.5#





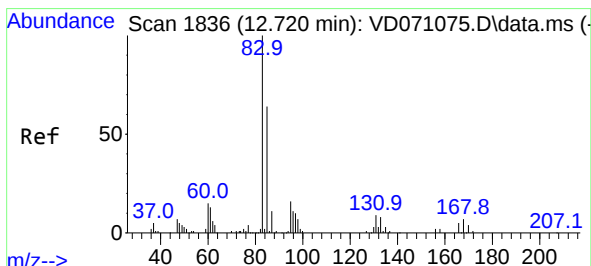
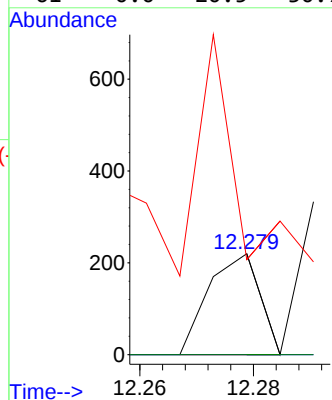
#74
N-amy1 acetate
Concen: 91.360 ug/l
RT: 12.279 min Scan# 1761
Delta R.T. -0.000 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Instrument :
MSVOA_D
ClientSampleId :

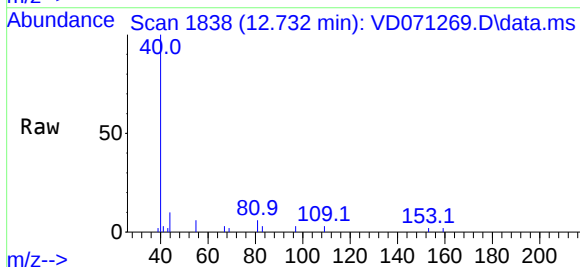


Tgt Ion: 43 Resp: 138

Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.6	55.0#
55	182.6	22.5	33.7#
61	0.0	20.5	30.7#

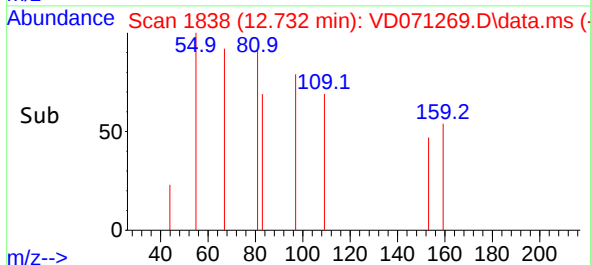
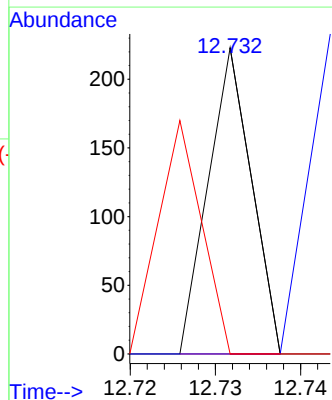


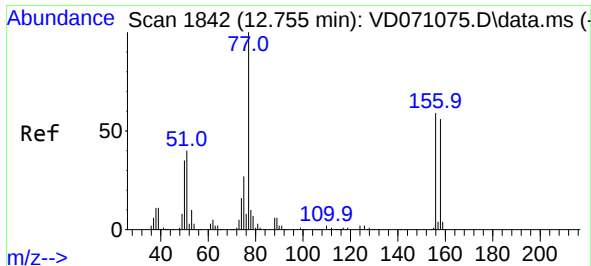
#75
1,1,2,2-Tetrachloroethane
Concen: 92.017 ug/l
RT: 12.732 min Scan# 1838
Delta R.T. 0.012 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55



Tgt Ion: 83 Resp: 79

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	75.9	32.0	96.2

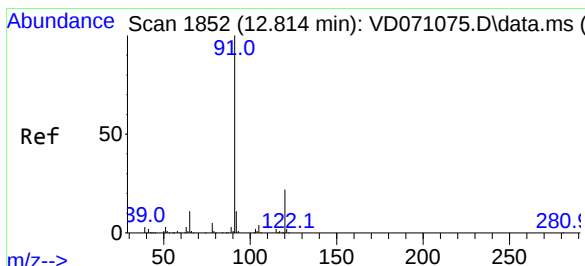
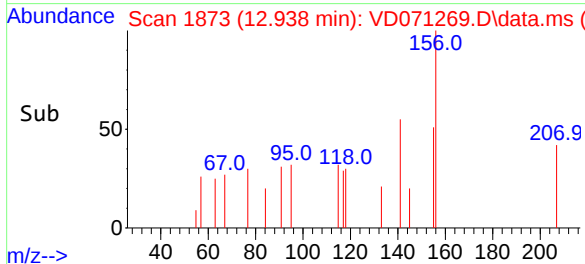
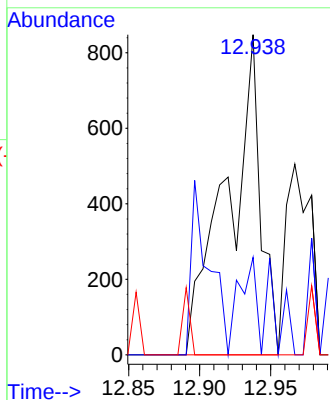
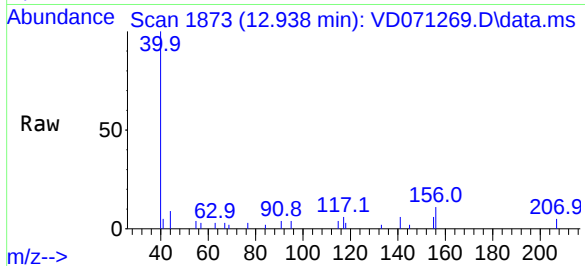




#77
Bromobenzene
Concen: 1224.744 ug/l
RT: 12.938 min Scan# 1873
Delta R.T. 0.183 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

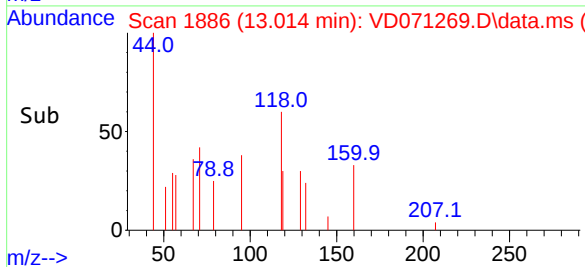
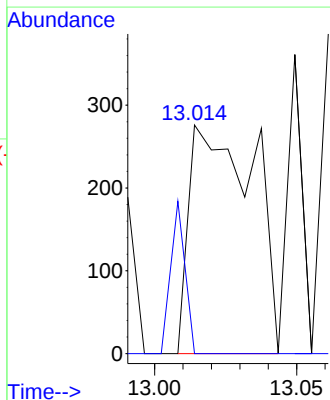
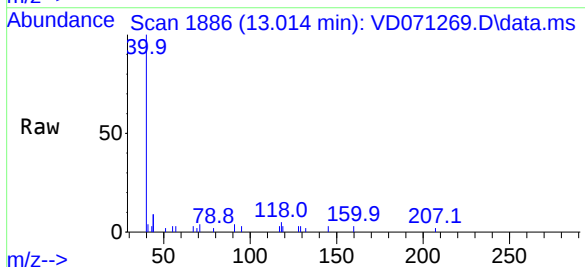
Instrument :
MSVOA_D
ClientSampleId :

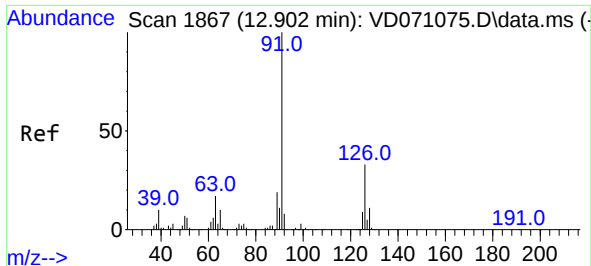
Tgt Ion:156 Resp: 1383
Ion Ratio Lower Upper
156 100
77 15.8 96.6 289.8#
158 0.0 49.1 147.4#



#78
n-propylbenzene
Concen: 66.847 ug/l
RT: 13.014 min Scan# 1886
Delta R.T. 0.200 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Tgt Ion: 91 Resp: 434
Ion Ratio Lower Upper
91 100
120 15.0 10.9 32.9

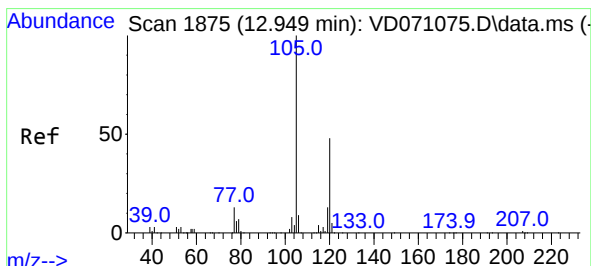
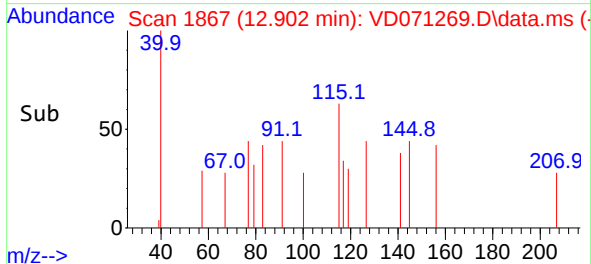
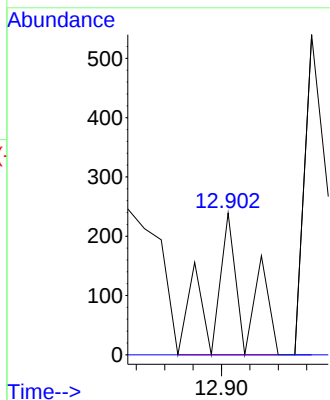
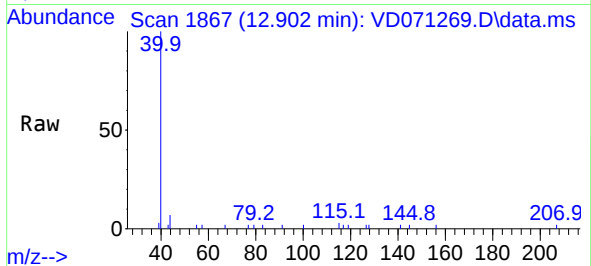




#79
2-Chlorotoluene
Concen: 54.337 ug/l
RT: 12.902 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

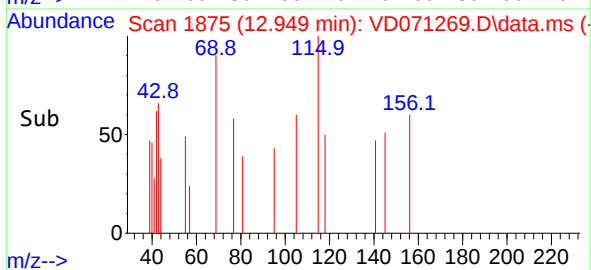
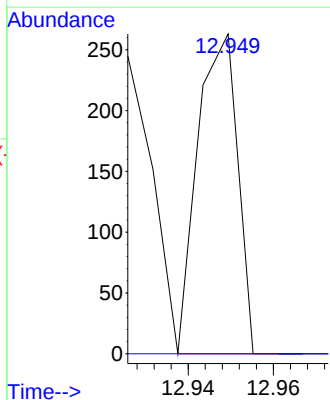
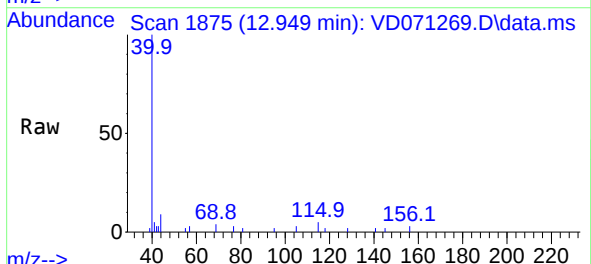
Instrument :
MSVOA_D
ClientSampleId :

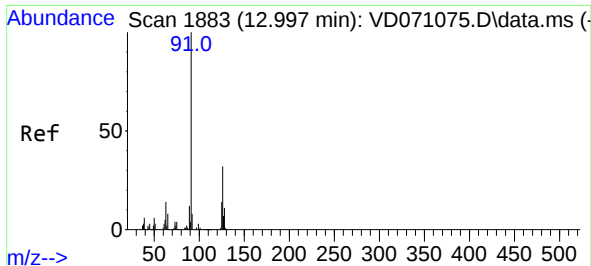
Tgt Ion: 91 Resp: 198
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.7#



#80
1,3,5-Trimethylbenzene
Concen: 39.776 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Tgt Ion: 105 Resp: 171
Ion Ratio Lower Upper
105 100
120 0.0 24.6 73.8#

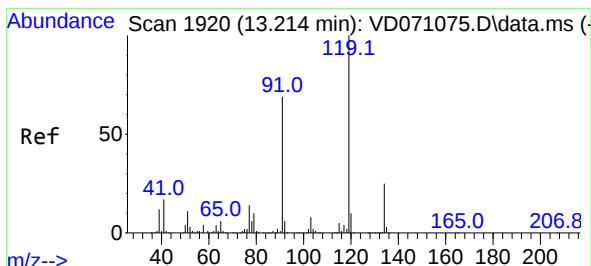
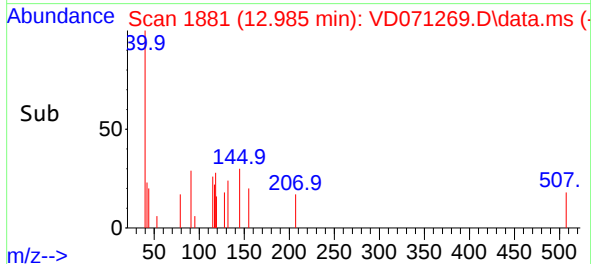
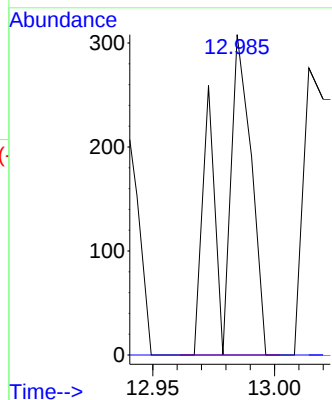
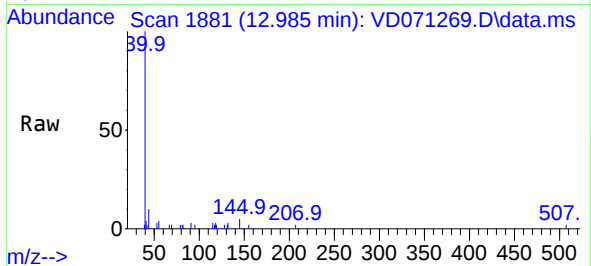




#82
4-Chlorotoluene
Concen: 70.844 ug/l
RT: 12.985 min Scan# 11
Delta R.T. -0.012 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

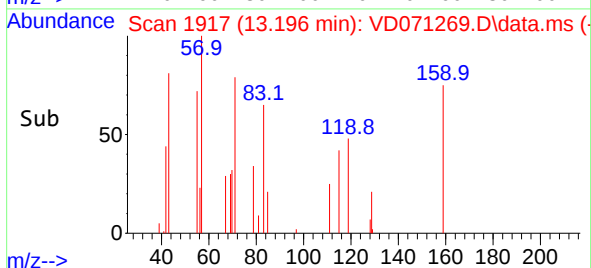
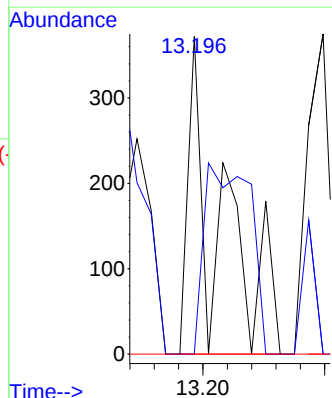
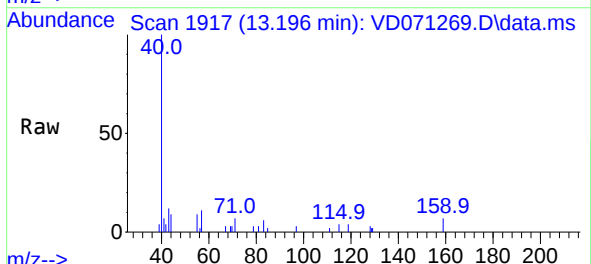
Instrument :
MSVOA_D
ClientSampleId :

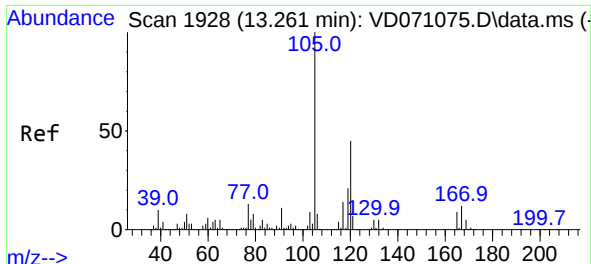
Tgt Ion: 91 Resp: 268
Ion Ratio Lower Upper
91 100
126 0.0 16.4 49.1#



#83
tert-Butylbenzene
Concen: 90.736 ug/l
RT: 13.196 min Scan# 1917
Delta R.T. -0.018 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Tgt Ion: 119 Resp: 335
Ion Ratio Lower Upper
119 100
91 87.2 32.5 97.5
134 0.0 13.2 39.6#

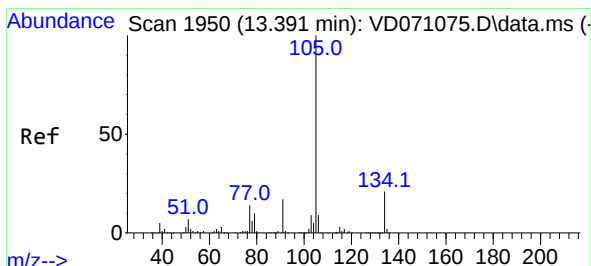
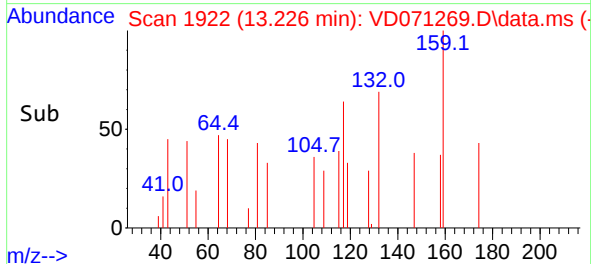
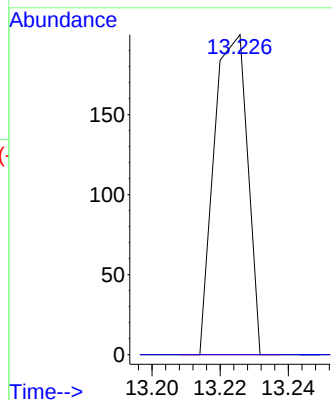
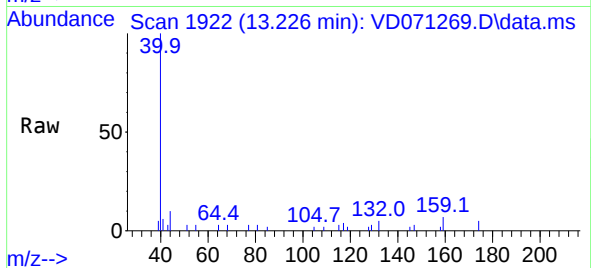




#84
1,2,4-Trimethylbenzene
Concen: 32.403 ug/l
RT: 13.226 min Scan# 1922
Delta R.T. -0.035 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

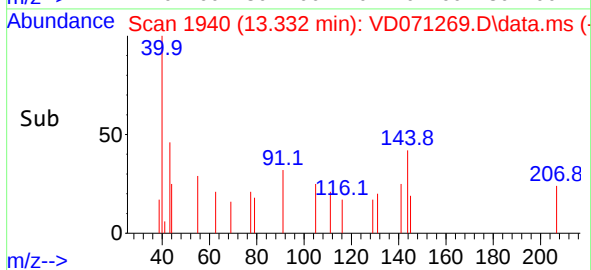
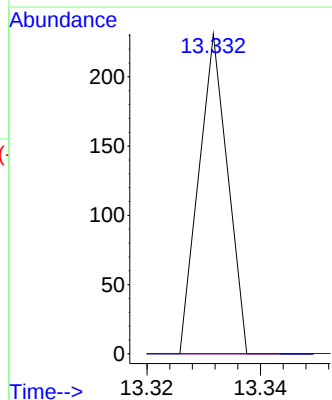
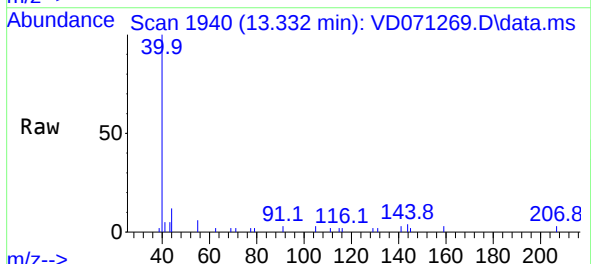
Instrument :
MSVOA_D
ClientSampleId :

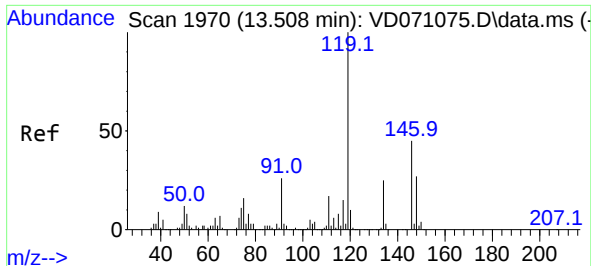
Tgt Ion:105 Resp: 136
Ion Ratio Lower Upper
105 100
120 0.0 22.9 68.7#



#85
sec-Butylbenzene
Concen: 14.542 ug/l
RT: 13.332 min Scan# 1940
Delta R.T. -0.059 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

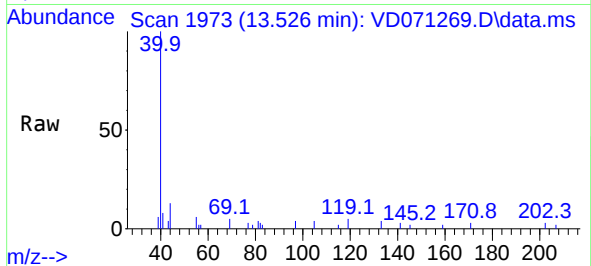
Tgt Ion:105 Resp: 82
Ion Ratio Lower Upper
105 100
134 0.0 9.7 28.9#



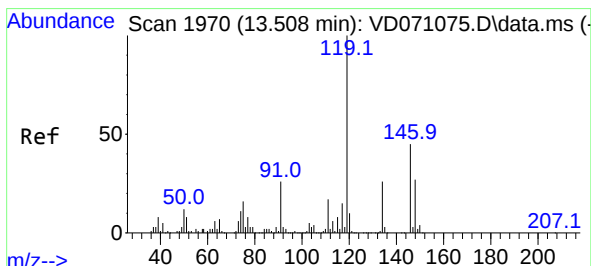
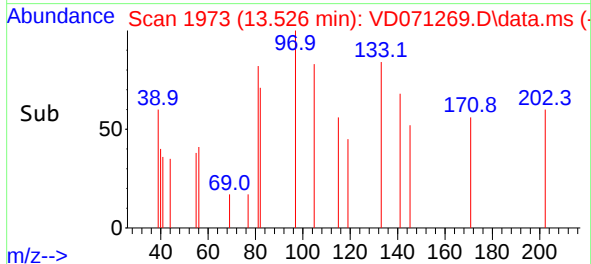
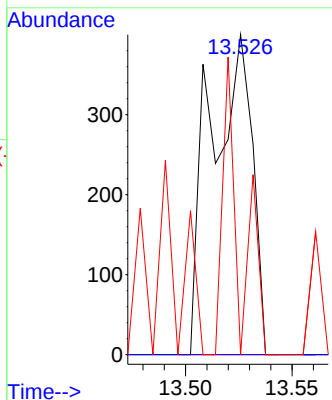


#86
p-Isopropyltoluene
Concen: 117.516 ug/l
RT: 13.526 min Scan# 1973
Delta R.T. 0.018 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Instrument :
MSVOA_D
ClientSampleId :

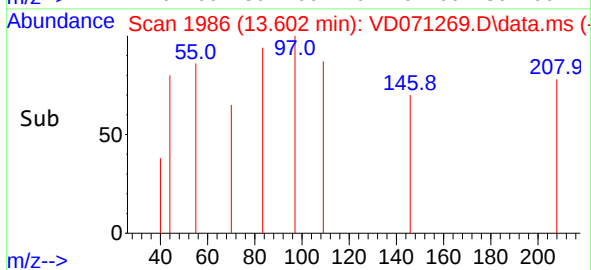
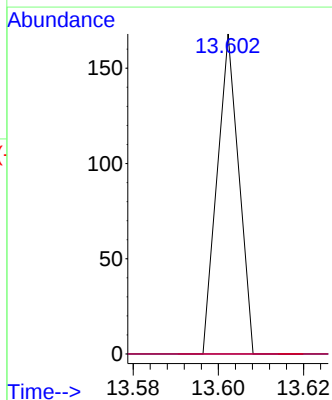
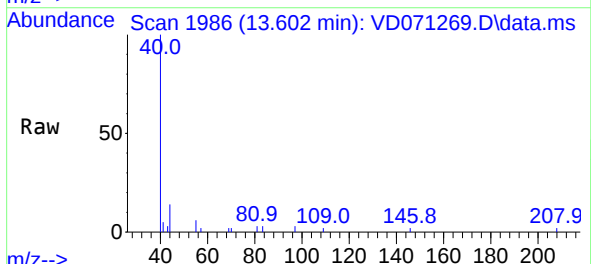


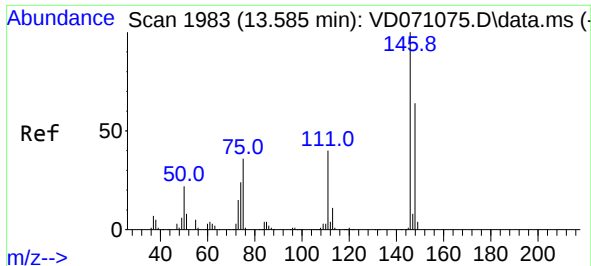
Tgt Ion:119 Resp: 542
Ion Ratio Lower Upper
119 100
134 0.0 13.0 38.9#
91 38.9 11.4 34.2#



#87
1,3-Dichlorobenzene
Concen: 26.247 ug/l
RT: 13.602 min Scan# 1986
Delta R.T. 0.094 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

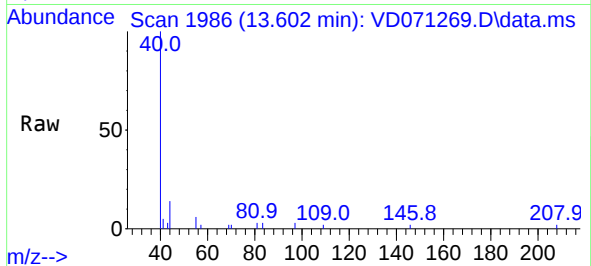
Tgt Ion:146 Resp: 59
Ion Ratio Lower Upper
146 100
111 0.0 19.8 59.4#
148 0.0 32.1 96.3#



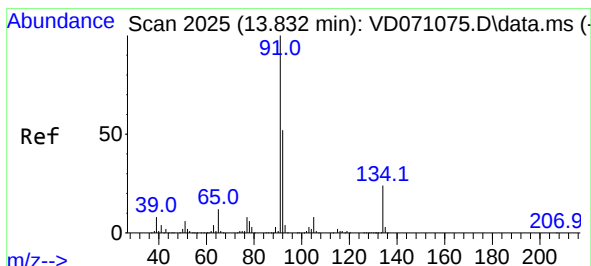
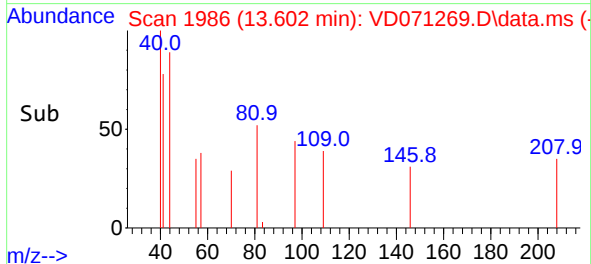
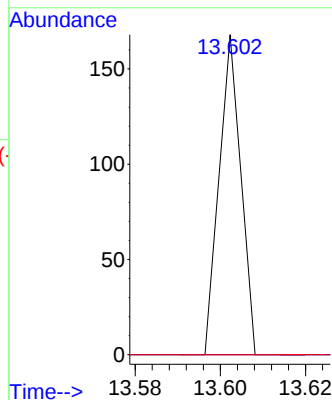


#88
1,4-Dichlorobenzene
Concen: 26.492 ug/l
RT: 13.602 min Scan# 1986
Delta R.T. 0.017 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Instrument :
MSVOA_D
ClientSampleId :

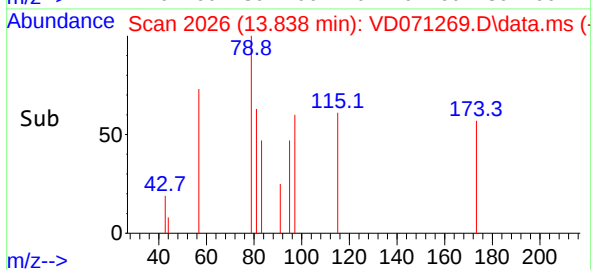
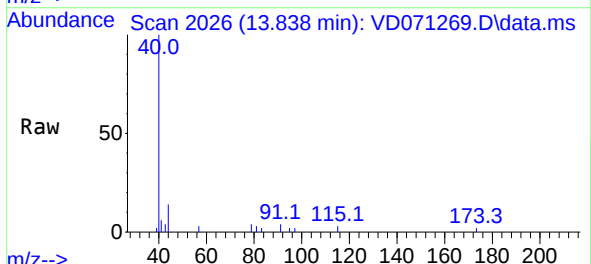
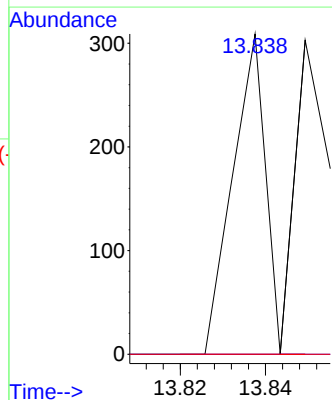


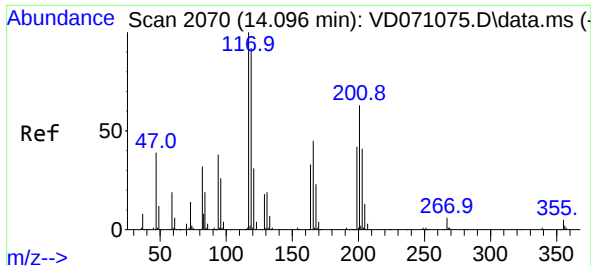
Tgt Ion:146 Resp: 59
Ion Ratio Lower Upper
146 100
111 0.0 19.6 58.8#
148 0.0 31.5 94.5#



#89
n-Butylbenzene
Concen: 36.648 ug/l
RT: 13.838 min Scan# 2026
Delta R.T. 0.006 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Tgt Ion: 91 Resp: 165
Ion Ratio Lower Upper
91 100
92 0.0 27.3 81.9#
134 0.0 12.3 36.9#

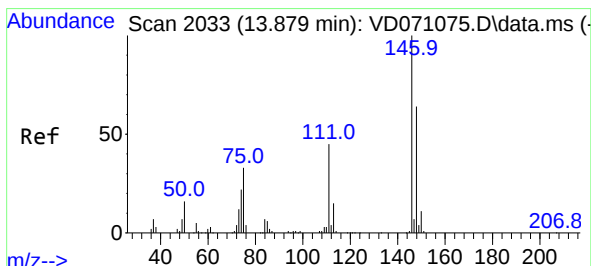
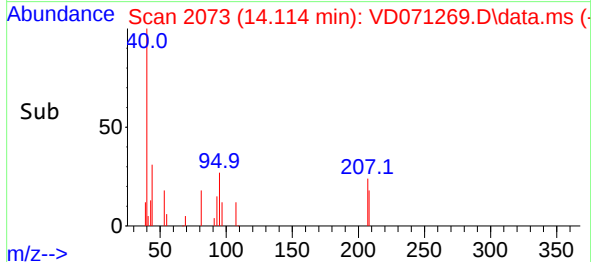
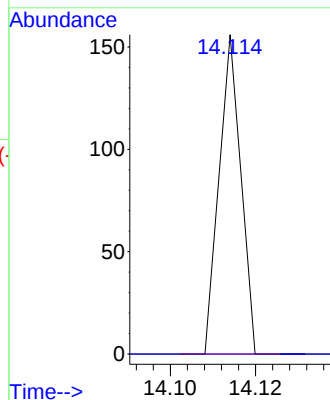
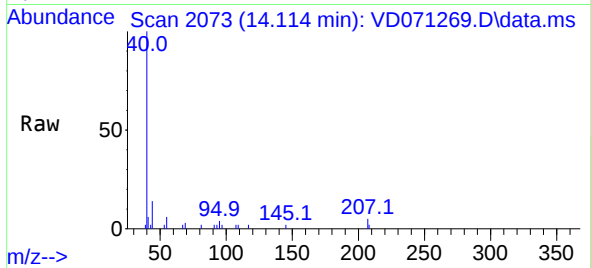




#90
Hexachloroethane
Concen: 62.907 ug/l
RT: 14.114 min Scan# 2070
Delta R.T. 0.018 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:117 Resp: 55
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#



#91
1,2-Dichlorobenzene
Concen: 34.526 ug/l
RT: 14.090 min Scan# 2069
Delta R.T. 0.211 min
Lab File: VD071269.D
Acq: 11 Dec 2021 14:55

Tgt Ion:146 Resp: 66
Ion Ratio Lower Upper
146 100
111 204.5 20.8 62.2#
148 0.0 31.7 95.1#

