

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102522\
 Data File : VY011092.D
 Acq On : 25 Oct 2022 14:34
 Operator : KP/MD
 Sample : N5257-01
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HOLLAND-RD-COMP-1

Quant Time: Oct 26 08:38:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y101722S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 18 01:42:42 2022
 Response via : Initial Calibration

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

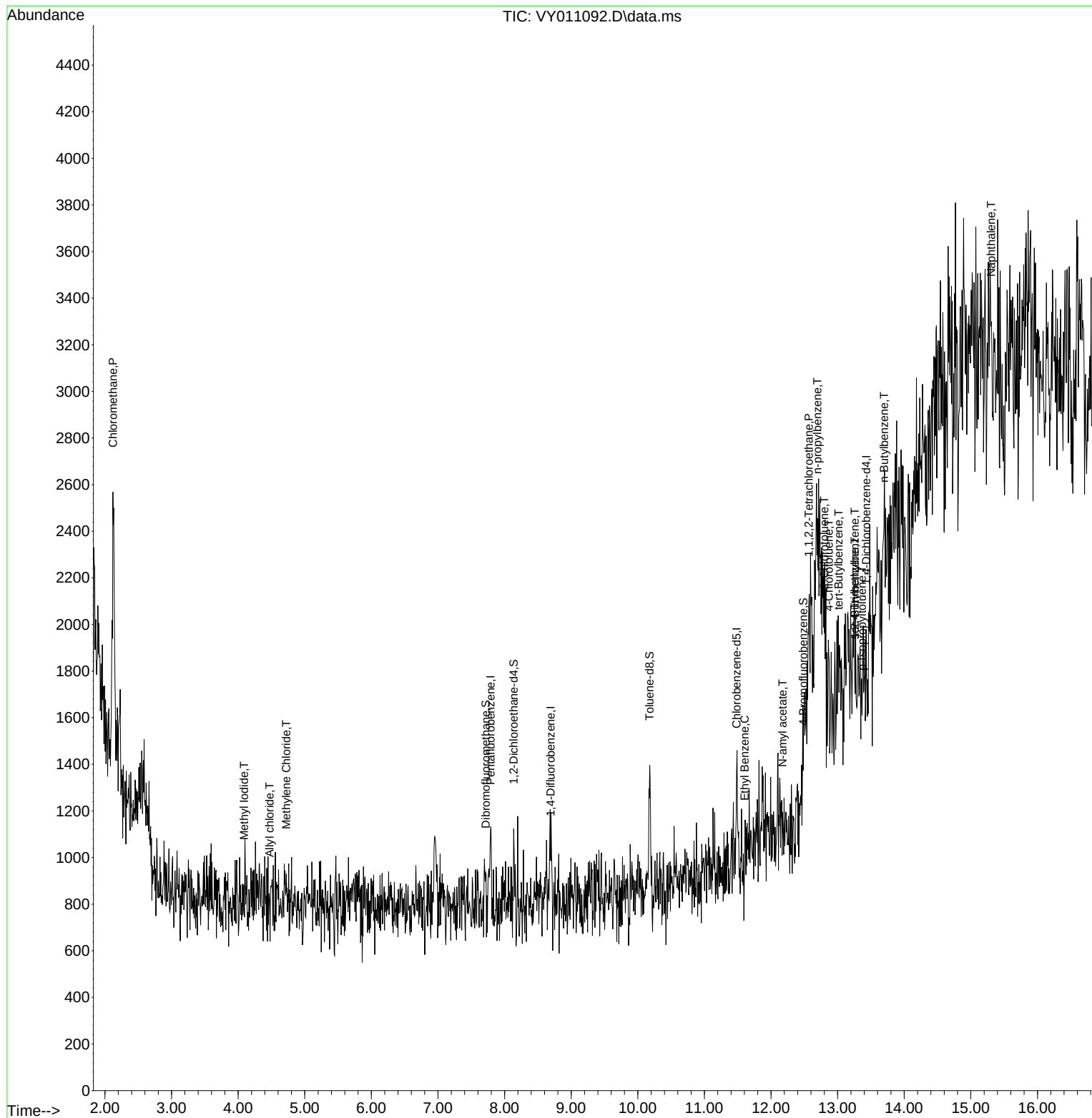
Internal Standards						
1) Pentafluorobenzene	7.789	168	402	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	602	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	352	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	52	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	268	72.374	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 144.740%	
35) Dibromofluoromethane	7.716	113	157	46.641	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 93.280%	
50) Toluene-d8	10.179	98	473	37.630	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 75.260%	
62) 4-Bromofluorobenzene	12.483	95	383	88.376	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 176.760%#	
Target Compounds						Qvalue
3) Chloromethane	2.119	50	59	15.423	ug/l #	44
10) Methyl Iodide	4.088	142	46	9.443	ug/l #	35
14) Allyl chloride	4.472	41	21	3.473	ug/l #	22
20) Methylene Chloride	4.722	84	41	2.783	ug/l #	1
67) Ethyl Benzene	11.605	91	20	1.564	ug/l #	44
74) N-amyl acetate	12.172	43	22	22.952	ug/l #	17
75) 1,1,2,2-Tetrachloroethane	12.569	83	82	103.423	ug/l #	55
78) n-propylbenzene	12.697	91	36	7.832	ug/l #	53
79) 2-Chlorotoluene	12.800	91	22	8.499	ug/l #	41
82) 4-Chlorotoluene	12.867	91	36	13.357	ug/l #	41
83) tert-Butylbenzene	13.014	119	46	16.876	ug/l #	49
84) 1,2,4-Trimethylbenzene	13.257	105	78	25.094	ug/l #	31
85) sec-Butylbenzene	13.257	105	78	19.043	ug/l #	56
86) p-Isopropyltoluene	13.367	119	44	12.949	ug/l #	56
89) n-Butylbenzene	13.696	91	174	54.799	ug/l #	33
95) Naphthalene	15.306	128	32	16.673	ug/l #	69

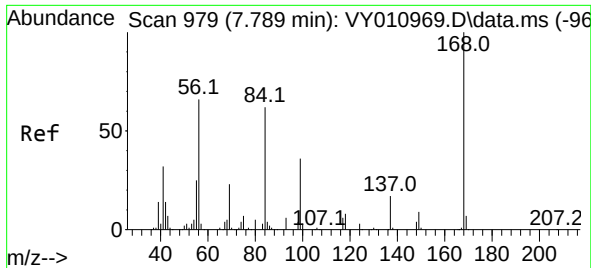
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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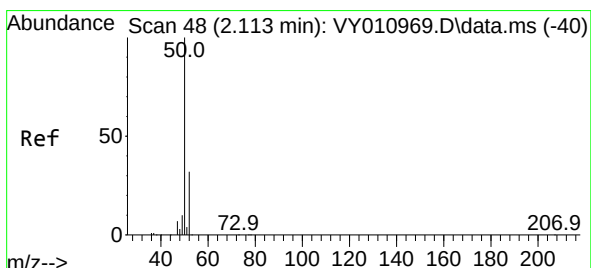
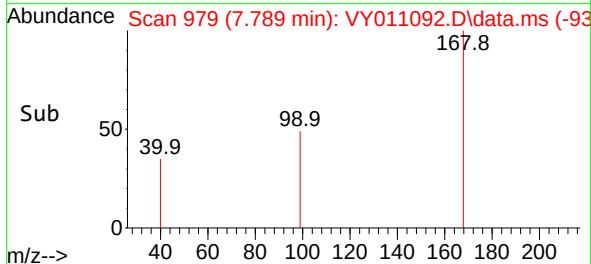
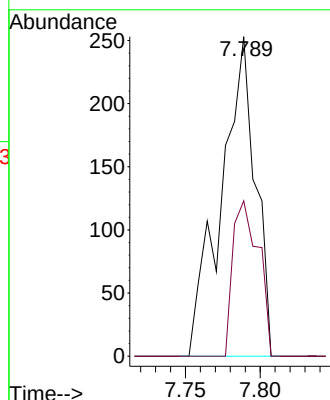
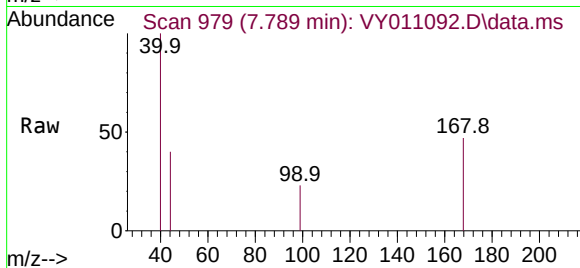




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

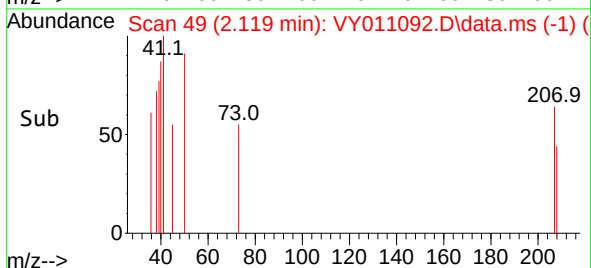
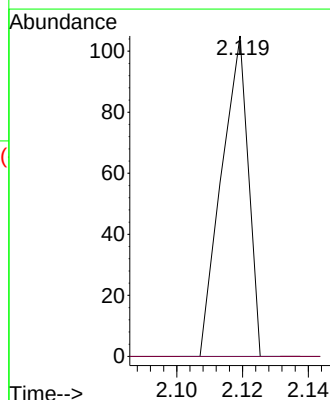
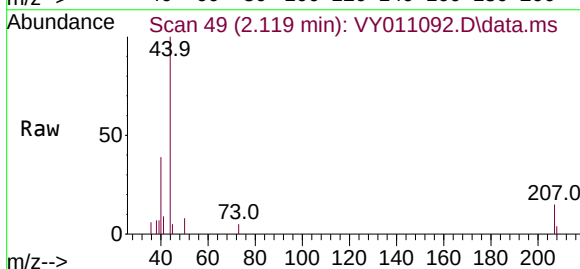
Instrument :
MSVOA_Y
ClientSampleId :
HOLLAND-RD-COMP-1

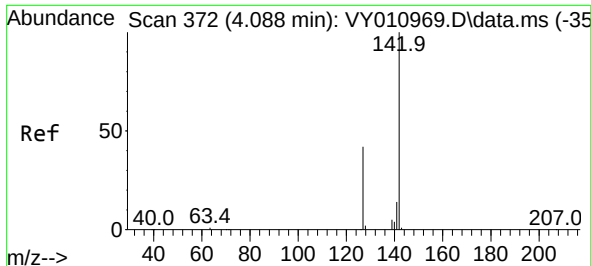
Tgt Ion:168 Resp: 402
Ion Ratio Lower Upper
168 100
99 48.6 46.9 70.3



#3
Chloromethane
Concen: 15.423 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Tgt Ion: 50 Resp: 59
Ion Ratio Lower Upper
50 100
52 0.0 24.6 37.0#

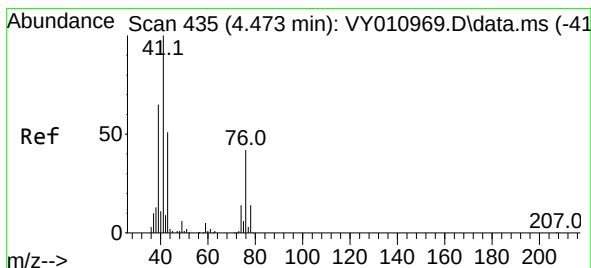
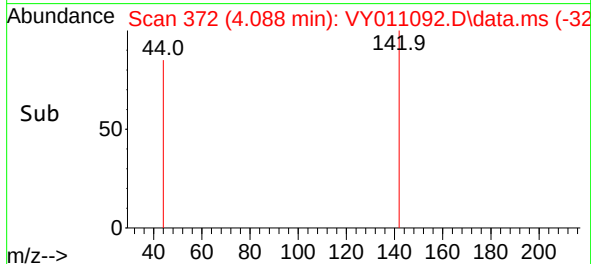
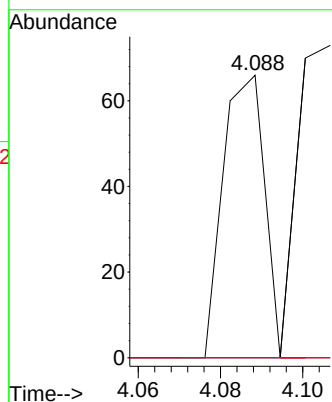
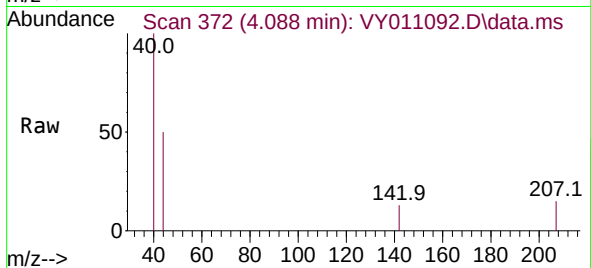




#10
Methyl Iodide
Concen: 9.443 ug/l
RT: 4.088 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

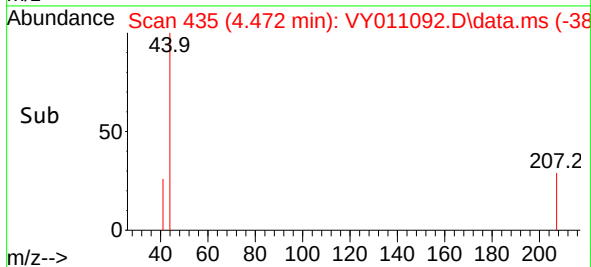
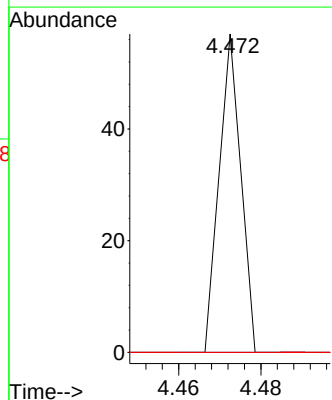
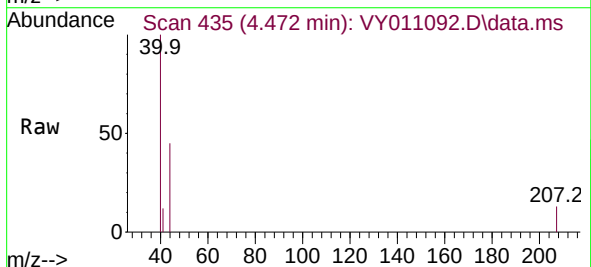
Instrument :
MSVOA_Y
ClientSampleId :
HOLLAND-RD-COMP-1

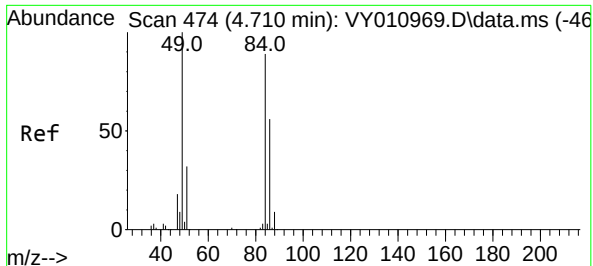
Tgt Ion:142 Resp: 46
Ion Ratio Lower Upper
142 100
127 0.0 41.5 62.3#
141 0.0 11.9 17.9#



#14
Allyl chloride
Concen: 3.473 ug/l
RT: 4.472 min Scan# 435
Delta R.T. -0.001 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Tgt Ion: 41 Resp: 21
Ion Ratio Lower Upper
41 100
39 0.0 58.8 88.2#
76 0.0 25.1 37.7#





#20

Methylene Chloride

Concen: 2.783 ug/l

RT: 4.722 min Scan# 41

Delta R.T. 0.012 min

Lab File: VY011092.D

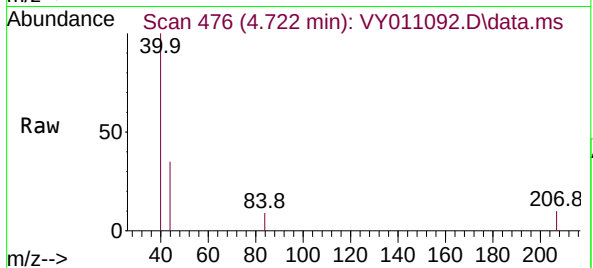
Acq: 25 Oct 2022 14:34

Instrument :

MSVOA_Y

ClientSampleId :

HOLLAND-RD-COMP-1



Tgt Ion: 84 Resp: 41

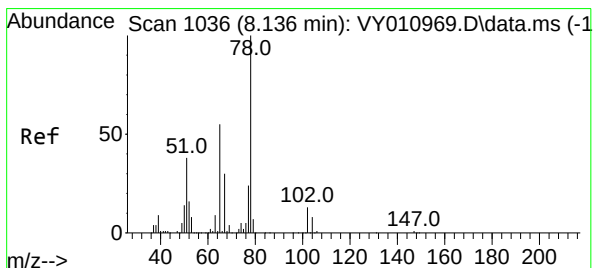
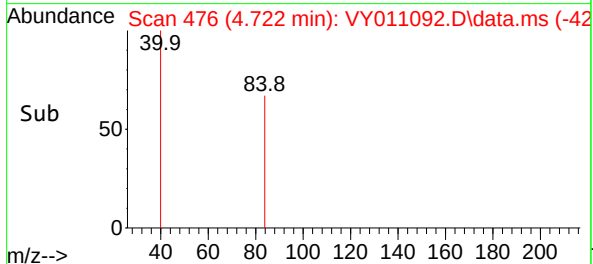
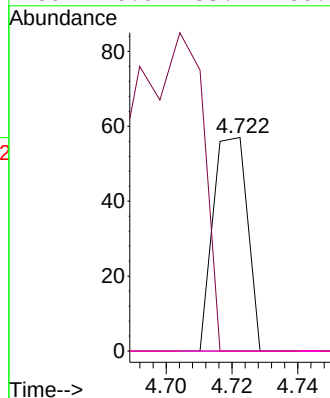
Ion Ratio Lower Upper

84 100

49 0.0 114.4 171.6#

51 0.0 35.3 52.9#

86 0.0 53.7 80.5#



#33

1,2-Dichloroethane-d4

Concen: 72.374 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY011092.D

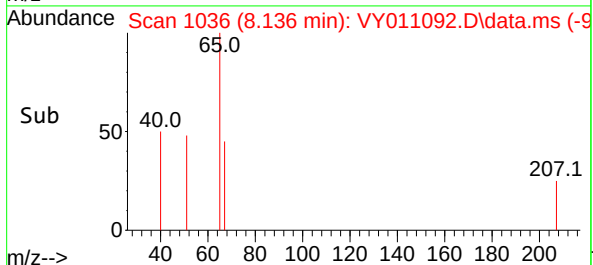
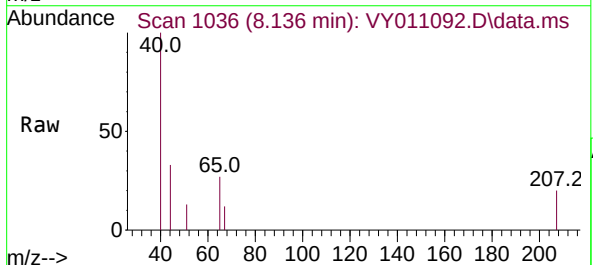
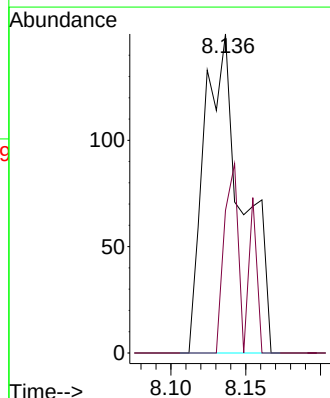
Acq: 25 Oct 2022 14:34

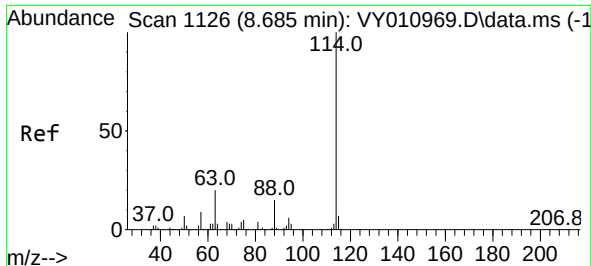
Tgt Ion: 65 Resp: 268

Ion Ratio Lower Upper

65 100

67 31.3 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY011092.D

Acq: 25 Oct 2022 14:34

Instrument :

MSVOA_Y

ClientSampleId :

HOLLAND-RD-COMP-1

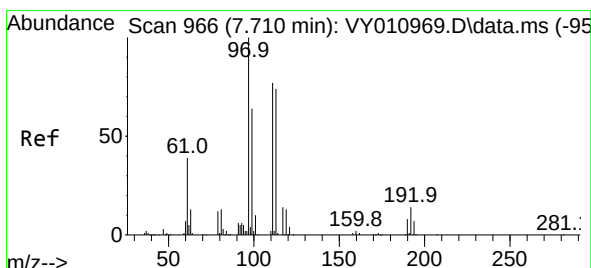
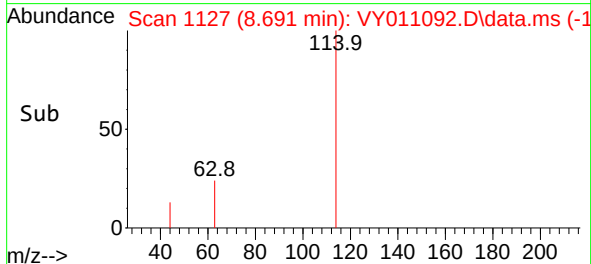
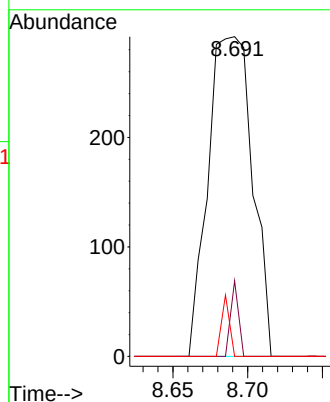
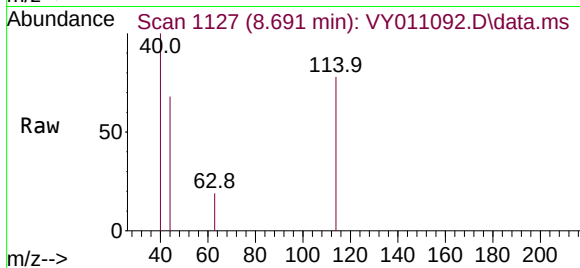
Tgt Ion:114 Resp: 602

Ion Ratio Lower Upper

114 100

63 23.6 0.0 43.2

88 0.0 0.0 31.8



#35

Dibromofluoromethane

Concen: 46.641 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.006 min

Lab File: VY011092.D

Acq: 25 Oct 2022 14:34

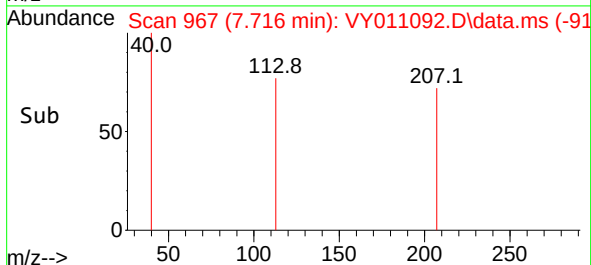
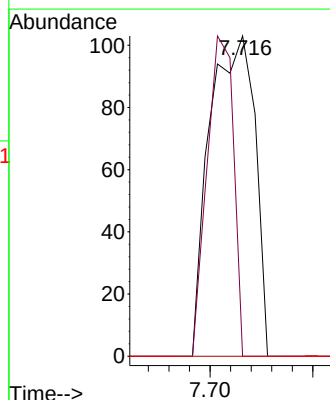
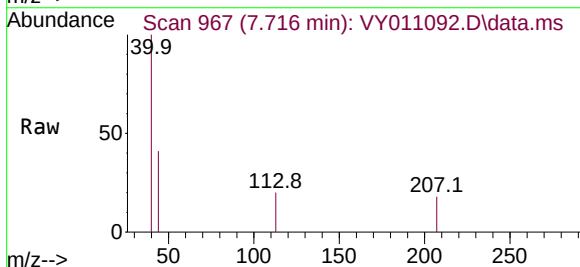
Tgt Ion:113 Resp: 157

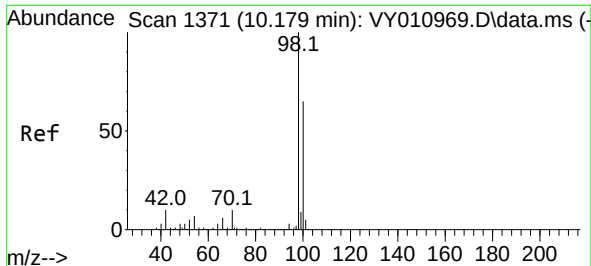
Ion Ratio Lower Upper

113 100

111 58.6 82.6 124.0#

192 0.0 17.6 26.4#

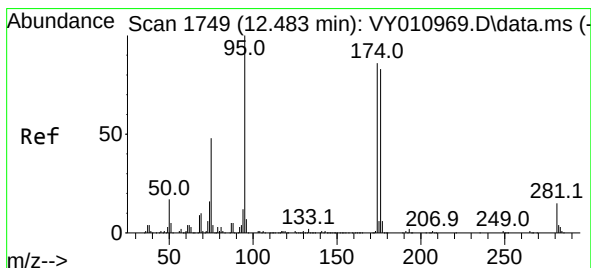
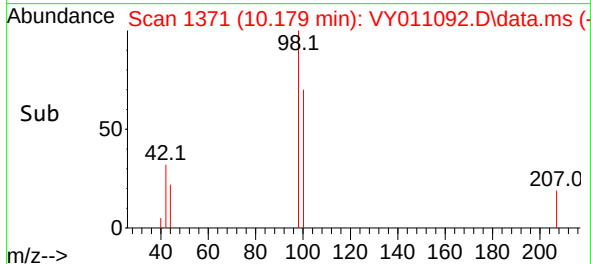
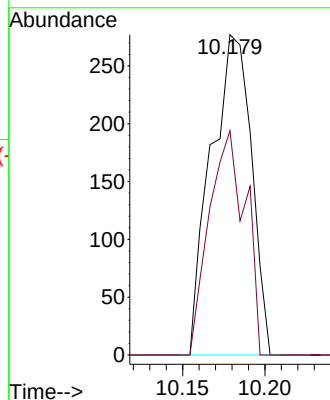
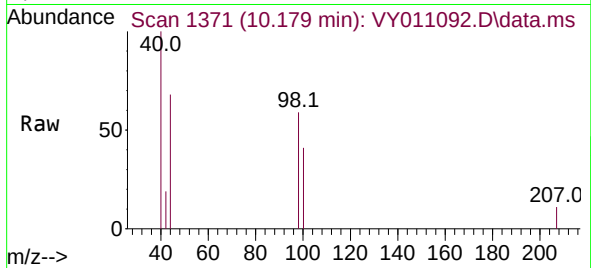




#50
Toluene-d8
Concen: 37.630 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

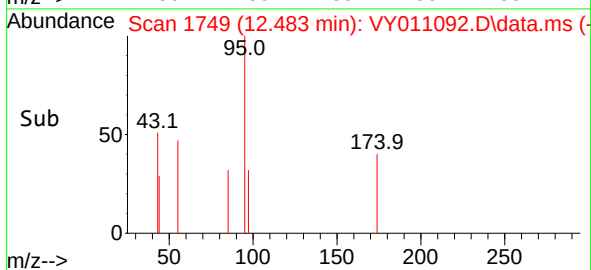
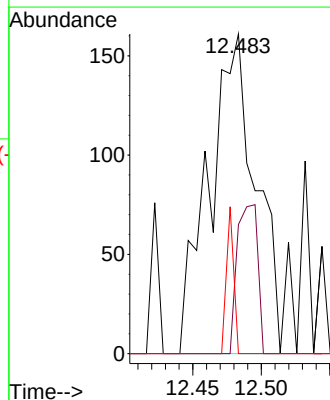
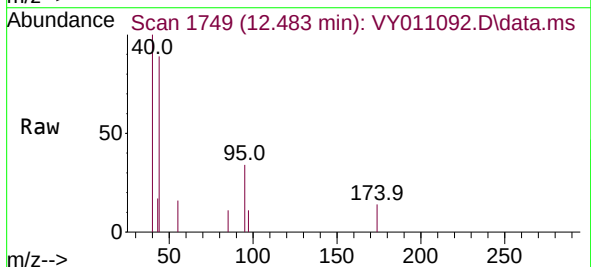
Instrument :
MSVOA_Y
ClientSampleId :
HOLLAND-RD-COMP-1

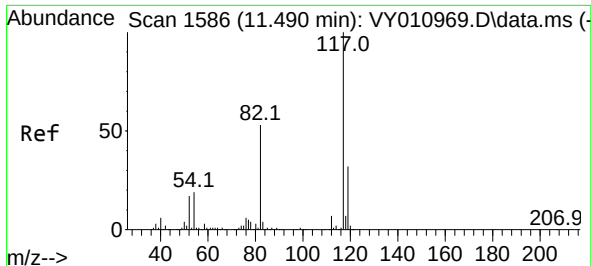
Tgt Ion: 98 Resp: 473
Ion Ratio Lower Upper
98 100
100 63.0 50.2 75.2



#62
4-Bromofluorobenzene
Concen: 88.376 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Tgt Ion: 95 Resp: 383
Ion Ratio Lower Upper
95 100
174 20.4 0.0 177.0
176 7.0 0.0 175.8

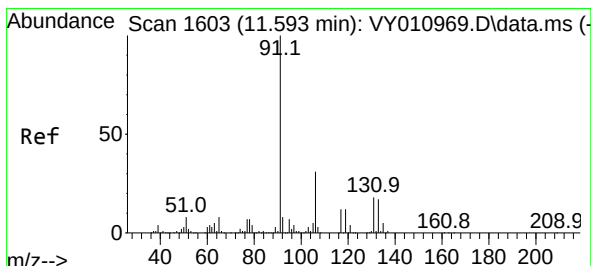
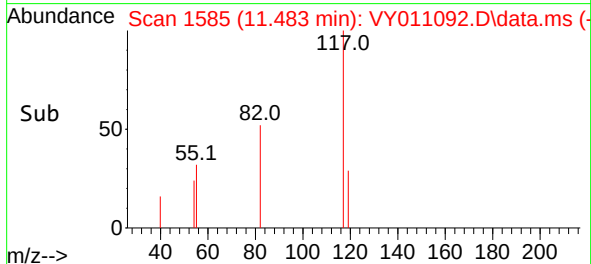
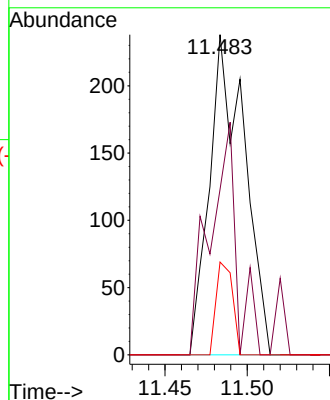
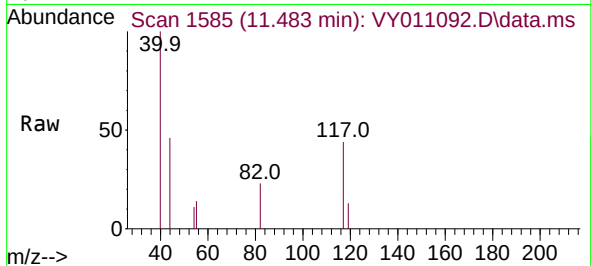




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 11
Delta R.T. -0.007 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

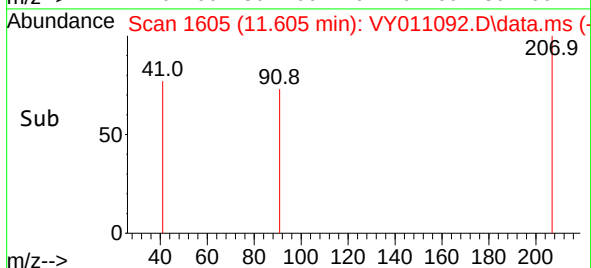
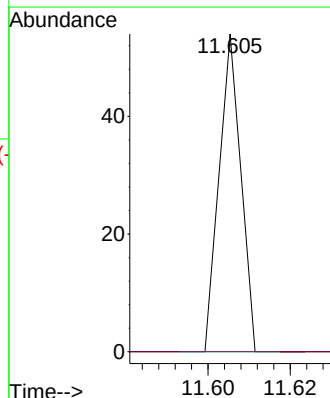
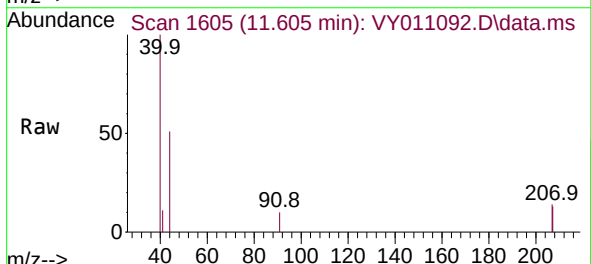
Instrument :
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HOLLAND-RD-COMP-1

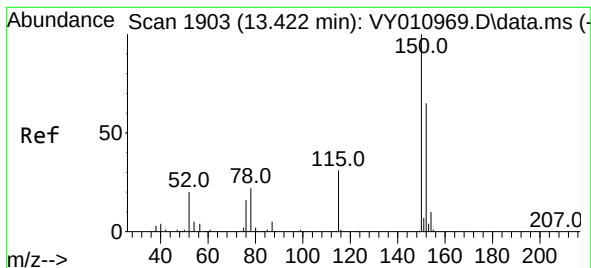
Tgt Ion:117	Resp:	352
Ion	Ratio	Lower Upper
117	100	
82	51.7	43.0 64.4
119	29.0	25.4 38.0



#67
Ethyl Benzene
Concen: 1.564 ug/l
RT: 11.605 min Scan# 1605
Delta R.T. 0.012 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Tgt Ion: 91	Resp:	20
Ion	Ratio	Lower Upper
91	100	
106	0.0	24.5 36.7#

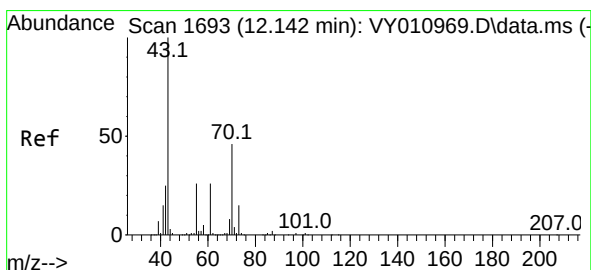
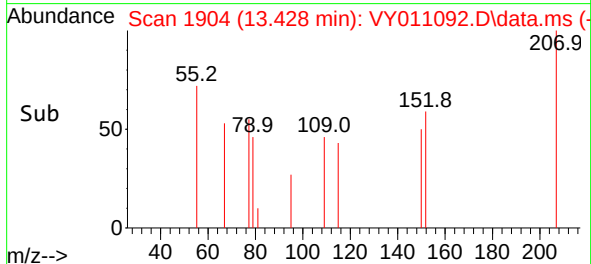
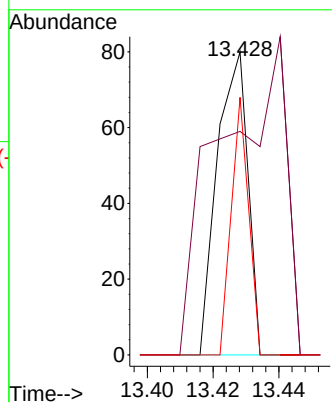
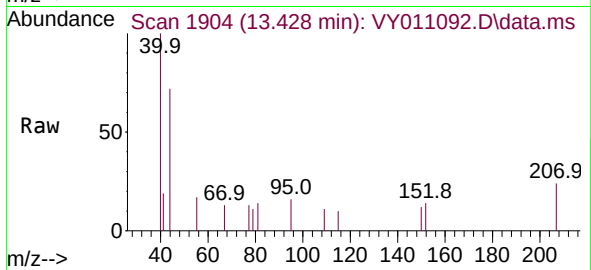




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

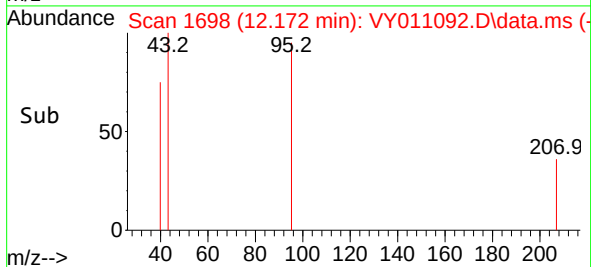
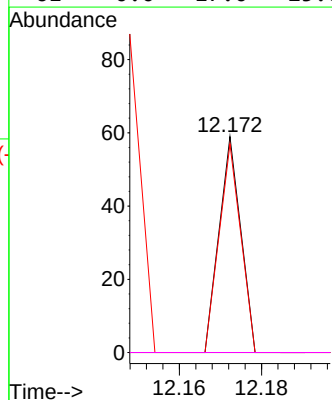
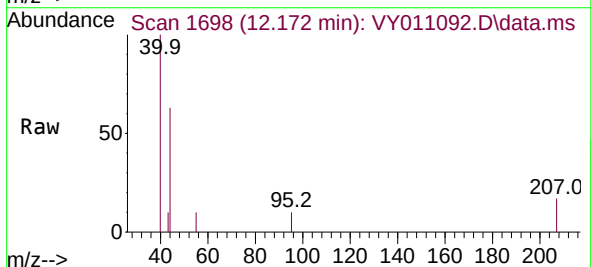
Instrument :
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HOLLAND-RD-COMP-1

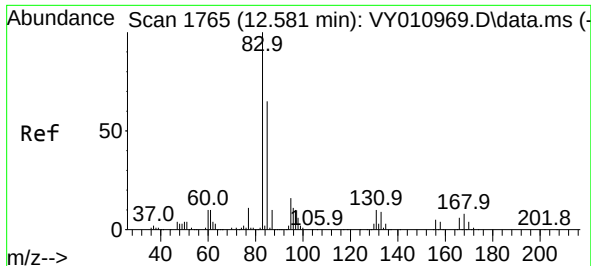
Tgt Ion:152 Resp: 52
Ion Ratio Lower Upper
152 100
115 217.3 28.2 84.7#
150 48.1 0.0 347.6



#74
N-ethyl acetate
Concen: 22.952 ug/l
RT: 12.172 min Scan# 1698
Delta R.T. 0.030 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
70 0.0 28.7 43.1#
55 95.5 17.3 25.9#
61 0.0 17.0 25.6#

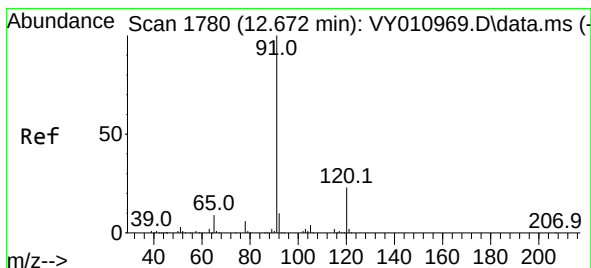
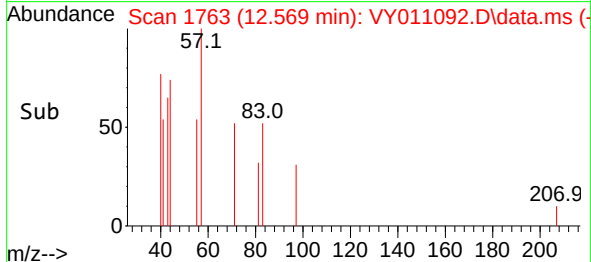
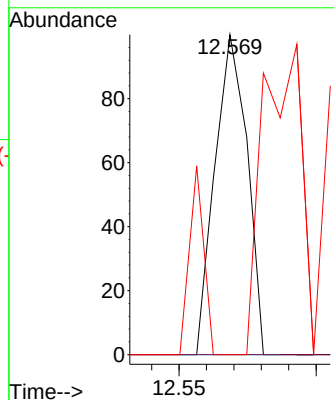
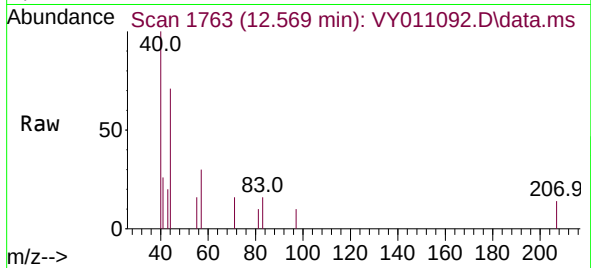




#75
1,1,2,2-Tetrachloroethane
Concen: 103.423 ug/l
RT: 12.569 min Scan# 1763
Delta R.T. -0.012 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

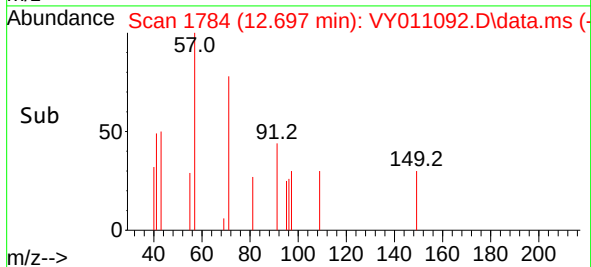
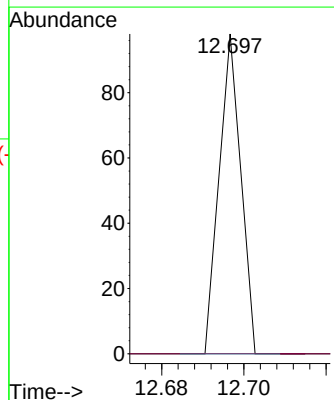
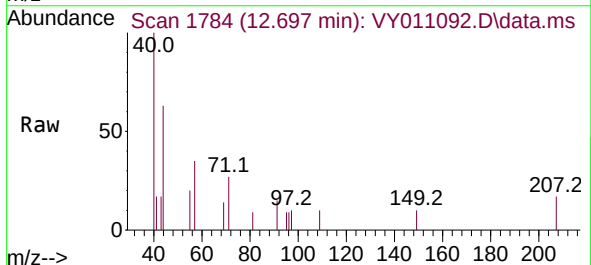
Instrument :
MSVOA_Y
ClientSampleId :
HOLLAND-RD-COMP-1

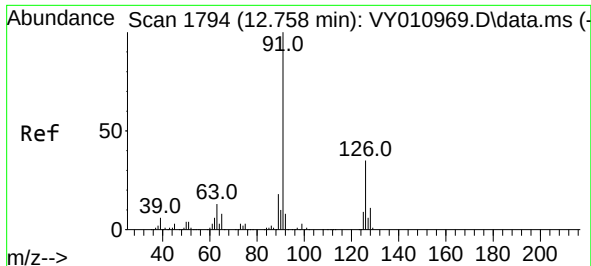
Tgt Ion: 83 Resp: 82
Ion Ratio Lower Upper
83 100
131 0.0 5.6 16.8#
85 26.8 32.3 96.8#



#78
n-propylbenzene
Concen: 7.832 ug/l
RT: 12.697 min Scan# 1784
Delta R.T. 0.025 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Tgt Ion: 91 Resp: 36
Ion Ratio Lower Upper
91 100
120 0.0 11.3 33.9#





#79

2-Chlorotoluene

Concen: 8.499 ug/l

RT: 12.800 min Scan# 1812

Delta R.T. 0.042 min

Lab File: VY011092.D

Acq: 25 Oct 2022 14:34

Instrument :

MSVOA_Y

ClientSampleId :

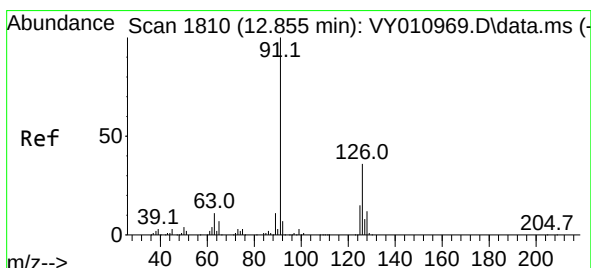
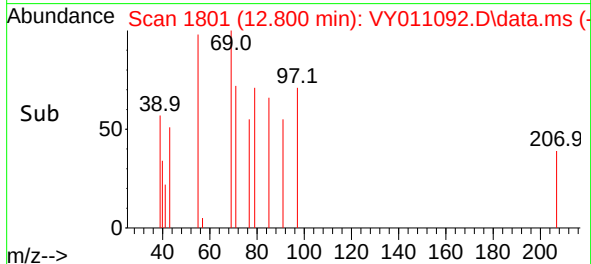
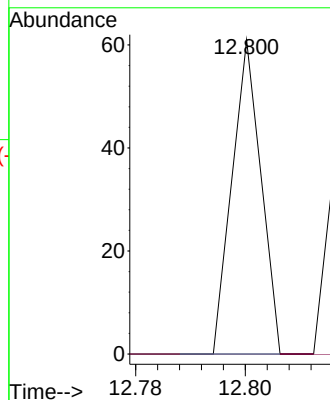
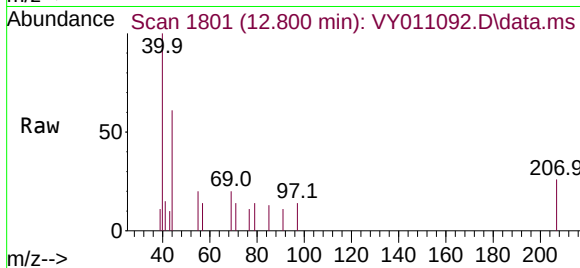
HOLLAND-RD-COMP-1

Tgt Ion: 91 Resp: 22

Ion Ratio Lower Upper

91 100

126 0.0 16.9 50.6#



#82

4-Chlorotoluene

Concen: 13.357 ug/l

RT: 12.867 min Scan# 1812

Delta R.T. 0.012 min

Lab File: VY011092.D

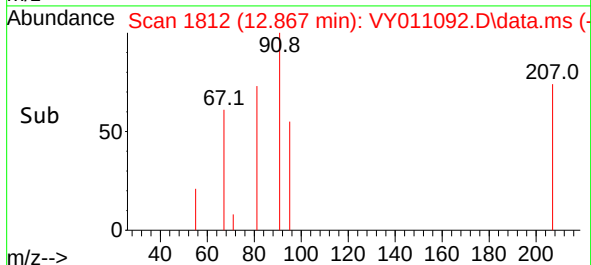
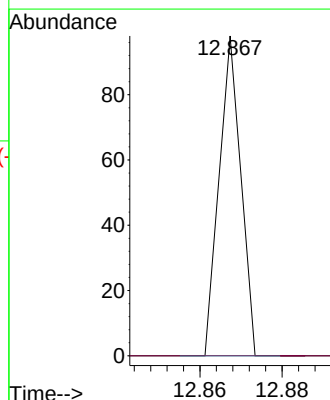
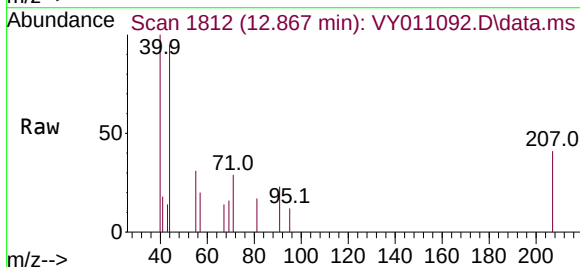
Acq: 25 Oct 2022 14:34

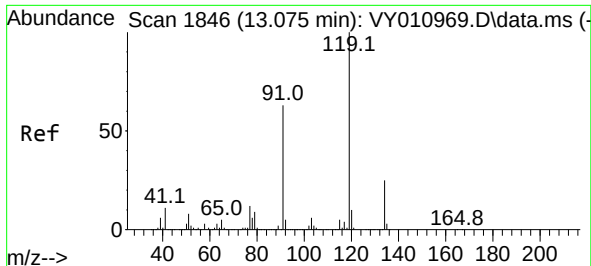
Tgt Ion: 91 Resp: 36

Ion Ratio Lower Upper

91 100

126 0.0 17.0 51.0#

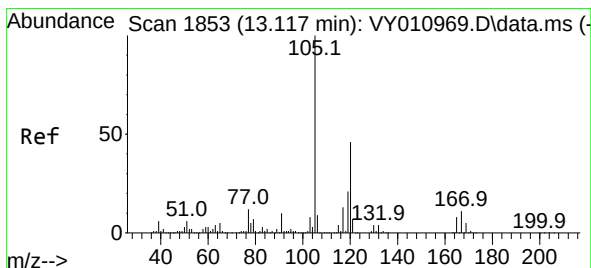
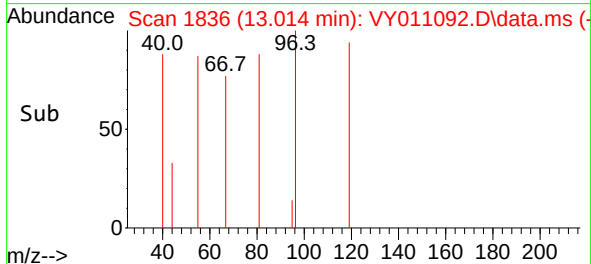
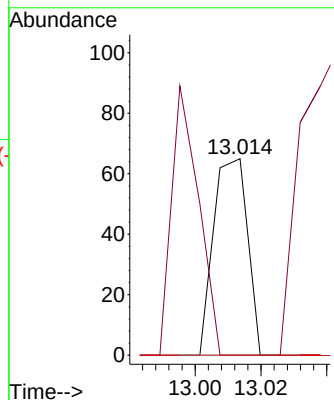
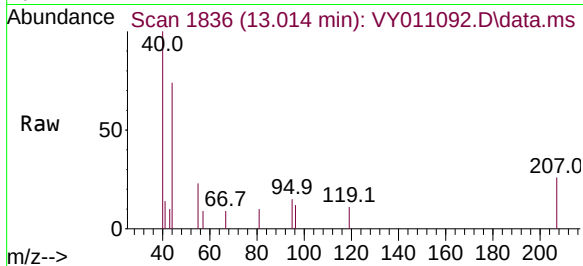




#83
tert-Butylbenzene
Concen: 16.876 ug/l
RT: 13.014 min Scan# 1836
Delta R.T. -0.061 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

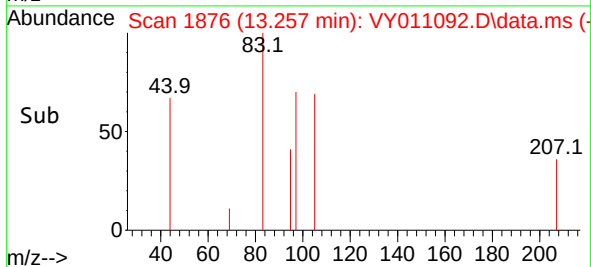
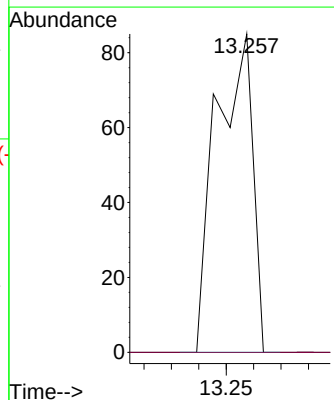
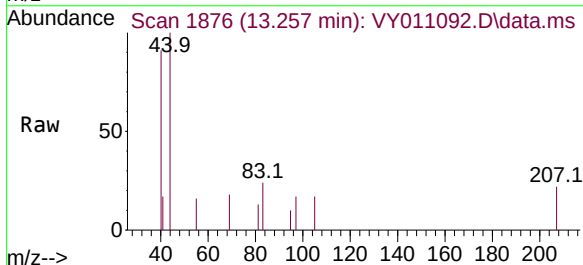
Instrument :
MSVOA_Y
ClientSampleId :
HOLLAND-RD-COMP-1

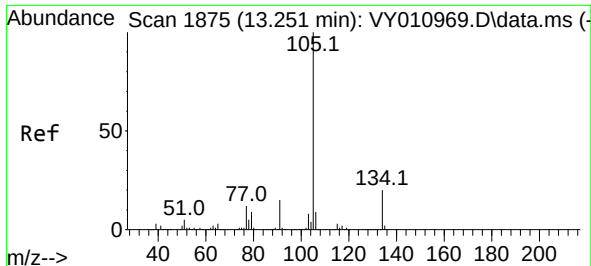
Tgt Ion:119 Resp: 46
Ion Ratio Lower Upper
119 100
91 110.9 34.8 104.4#
134 0.0 13.3 39.9#



#84
1,2,4-Trimethylbenzene
Concen: 25.094 ug/l
RT: 13.257 min Scan# 1876
Delta R.T. 0.140 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Tgt Ion:105 Resp: 78
Ion Ratio Lower Upper
105 100
120 0.0 22.3 66.9#

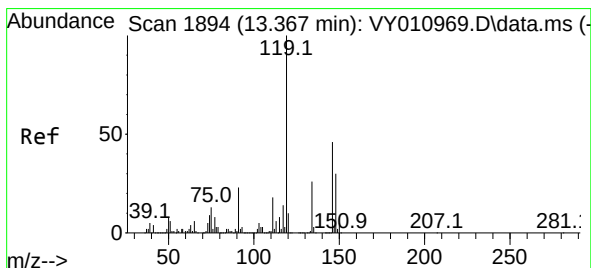
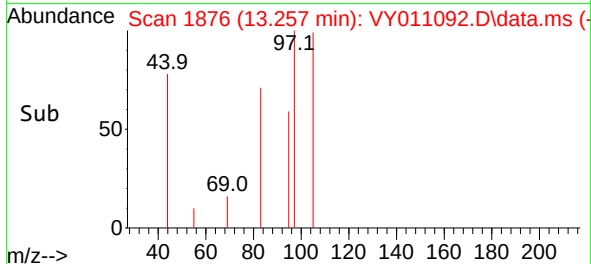
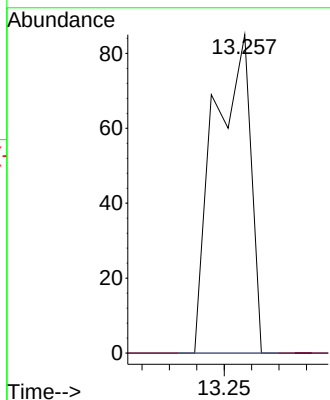
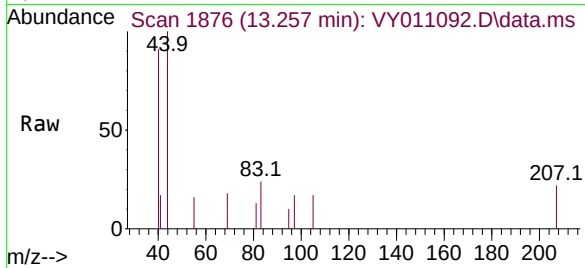




#85
 sec-Butylbenzene
 Concen: 19.043 ug/l
 RT: 13.257 min Scan# 1875
 Delta R.T. 0.006 min
 Lab File: VY011092.D
 Acq: 25 Oct 2022 14:34

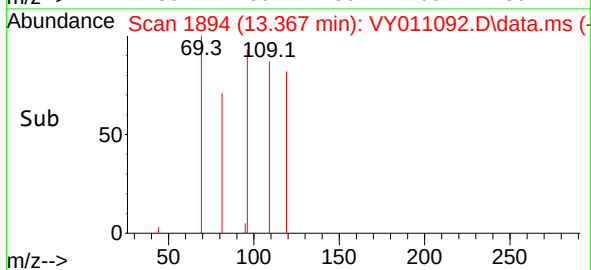
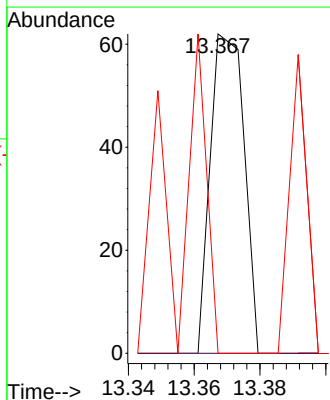
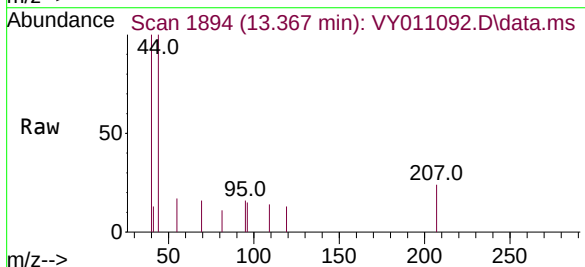
Instrument :
 MSVOA_Y
 ClientSampleId :
 HOLLAND-RD-COMP-1

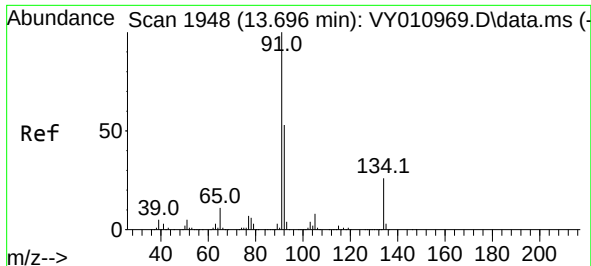
Tgt Ion:105 Resp: 78
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 12.949 ug/l
 RT: 13.367 min Scan# 1894
 Delta R.T. 0.000 min
 Lab File: VY011092.D
 Acq: 25 Oct 2022 14:34

Tgt Ion:119 Resp: 44
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.2 39.5#
 91 43.2 12.4 37.2#

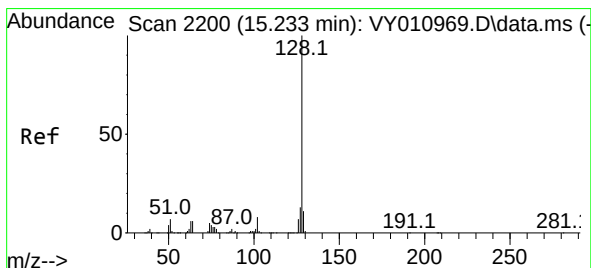
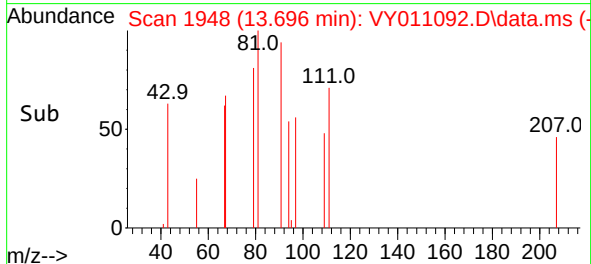
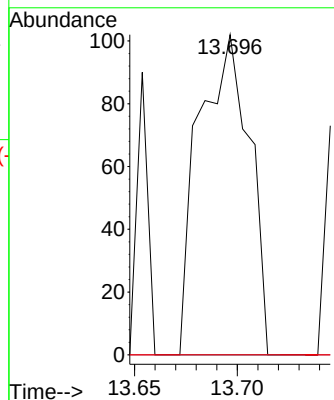
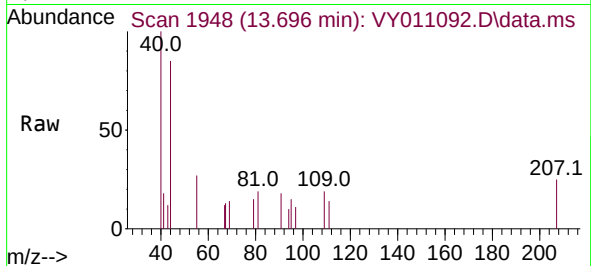




#89
n-Butylbenzene
Concen: 54.799 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Instrument :
MSVOA_Y
ClientSampleId :
HOLLAND-RD-COMP-1

Tgt Ion:	91	Resp:	174
Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.3	78.9#
134	0.0	13.0	38.9#



#95
Naphthalene
Concen: 16.673 ug/l
RT: 15.306 min Scan# 2212
Delta R.T. 0.073 min
Lab File: VY011092.D
Acq: 25 Oct 2022 14:34

Tgt Ion:	128	Resp:	32
Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.0	16.4#
129	0.0	8.4	12.6#

