

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103122\
 Data File : VY011200.D
 Acq On : 31 Oct 2022 16:26
 Operator : KP/MD
 Sample : N5327-01RE
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LACY-05RE

Quant Time: Nov 01 02:44:57 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102822S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 28 23:42:14 2022
 Response via : Initial Calibration

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

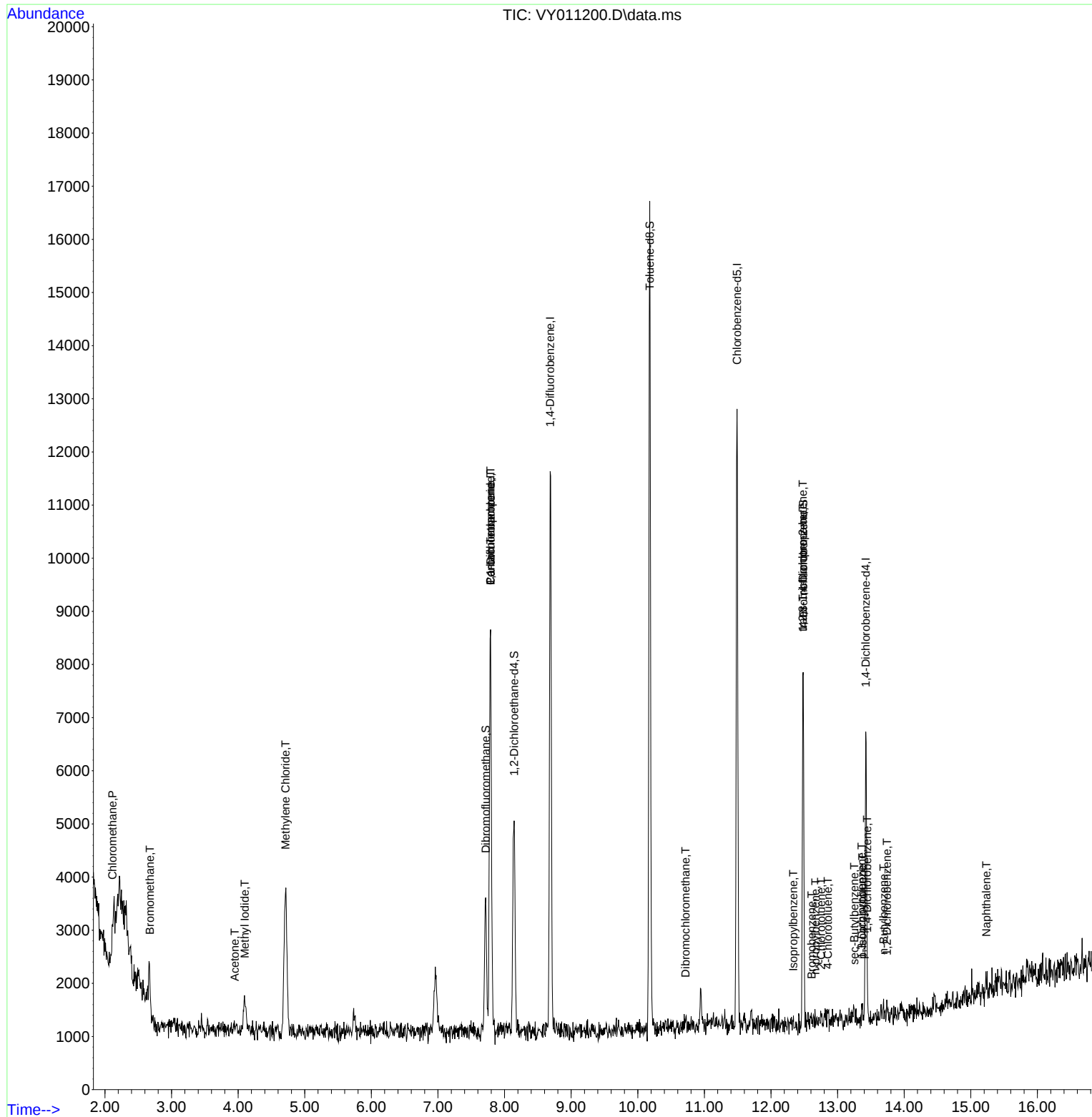
Internal Standards						
1) Pentafluorobenzene	7.789	168	6240	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	9825	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	7339	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	1622	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	3547	54.973	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.940%			
35) Dibromofluoromethane	7.716	113	2038	33.731	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 67.460%			
50) Toluene-d8	10.179	98	11105	46.394	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 92.780%			
62) 4-Bromofluorobenzene	12.483	95	2392	30.541	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 61.080%			
Target Compounds						Qvalue
3) Chloromethane	2.113	50	295	3.683	ug/l #	44
5) Bromomethane	2.674	94	372	8.036	ug/l	91
10) Methyl Iodide	4.101	142	1074	17.600	ug/l #	60
16) Acetone	3.948	43	229	14.506	ug/l #	47
20) Methylene Chloride	4.710	84	2253	32.168	ug/l #	72
31) Cyclohexane	7.777	56	51	Below Cal	#	66
36) 1,1-Dichloropropene	7.789	75	496	6.297	ug/l #	42
38) Carbon Tetrachloride	7.789	117	618	7.203	ug/l #	11
60) Dibromochloromethane	10.715	129	97	1.588	ug/l #	11
73) Isopropylbenzene	12.337	105	146	1.379	ug/l #	48
76) 1,2,3-Trichloropropane	12.477	75	1222	72.464	ug/l #	100
77) Bromobenzene	12.611	156	30	1.204	ug/l #	1
78) n-propylbenzene	12.666	91	200	1.553	ug/l #	53
79) 2-Chlorotoluene	12.752	91	163	2.213	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.477	75	1222	153.890	ug/l #	7
82) 4-Chlorotoluene	12.855	91	151	1.976	ug/l #	41
85) sec-Butylbenzene	13.251	105	235	2.018	ug/l #	56
86) p-Isopropyltoluene	13.373	119	115	1.202	ug/l #	50
87) 1,3-Dichlorobenzene	13.361	146	121	2.393	ug/l #	68
88) 1,4-Dichlorobenzene	13.447	146	218	4.309	ug/l #	63
89) n-Butylbenzene	13.690	91	113	1.264	ug/l #	33
91) 1,2-Dichlorobenzene	13.739	146	161	3.539	ug/l #	24
95) Naphthalene	15.233	128	246	8.209	ug/l #	69

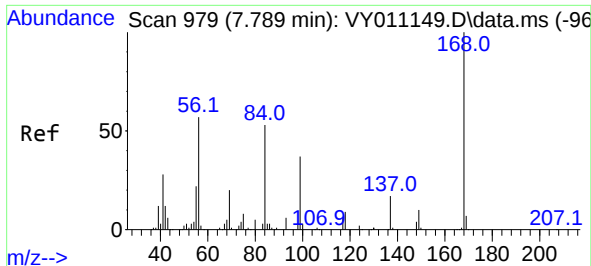
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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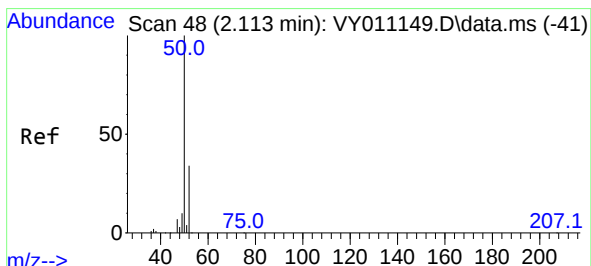
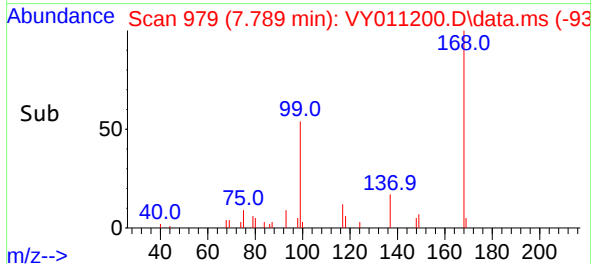
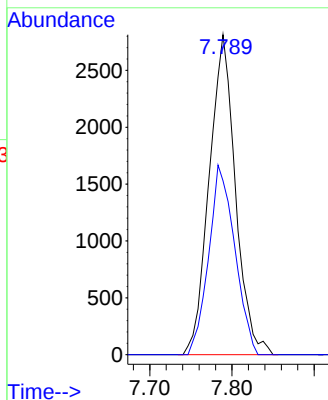
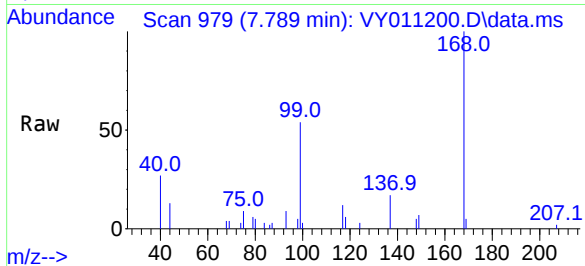




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

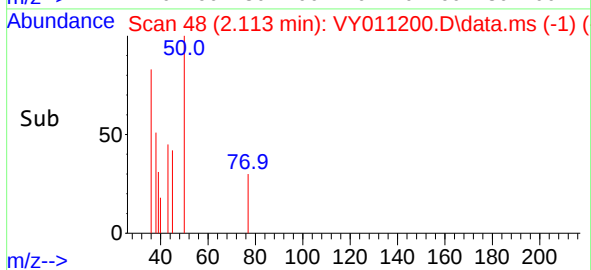
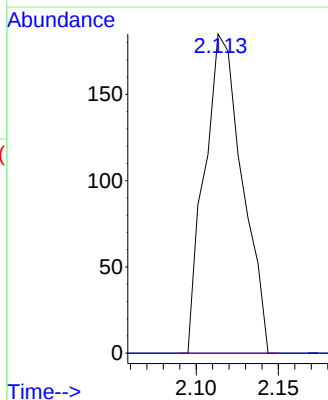
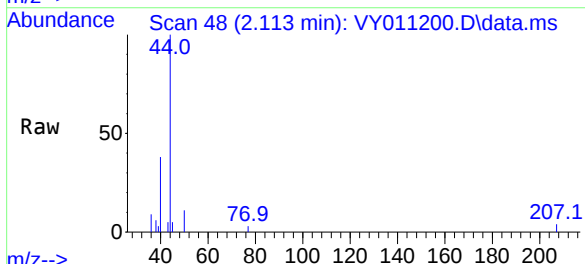
Instrument :
MSVOA_Y
ClientSampleId :
LACY-05RE

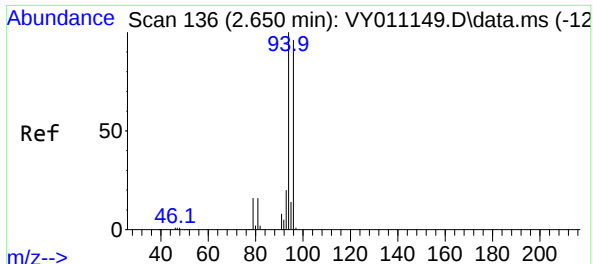
Tgt Ion:168 Resp: 6240
Ion Ratio Lower Upper
168 100
99 54.3 46.9 70.3



#3
Chloromethane
Concen: 3.683 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 50 Resp: 295
Ion Ratio Lower Upper
50 100
52 0.0 24.6 37.0#

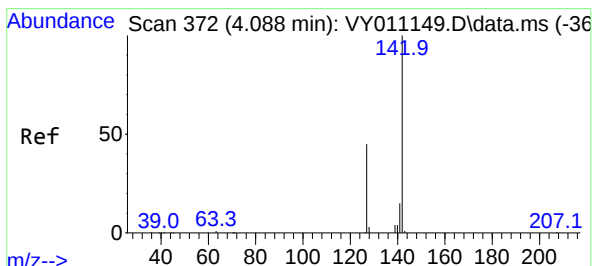
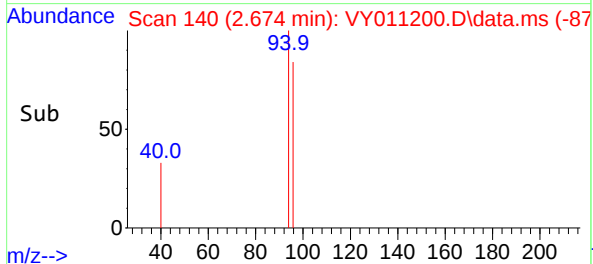
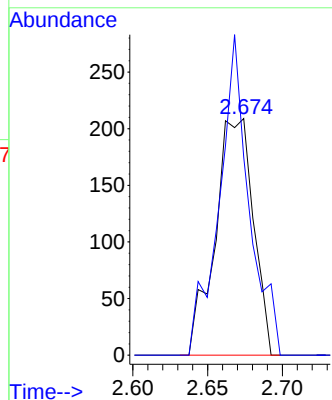
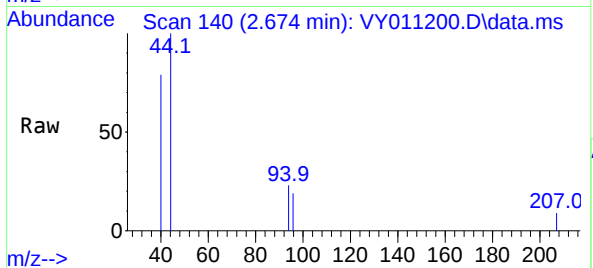




#5
Bromomethane
Concen: 8.036 ug/l
RT: 2.674 min Scan# 14
Delta R.T. 0.024 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

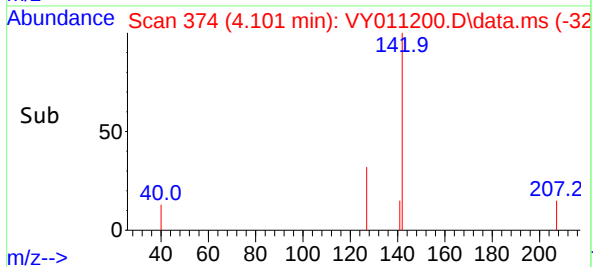
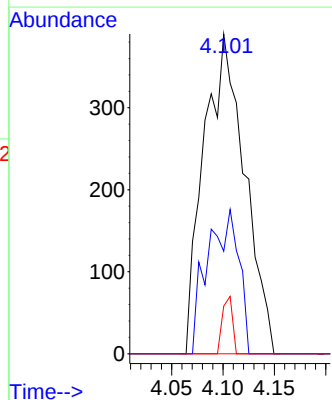
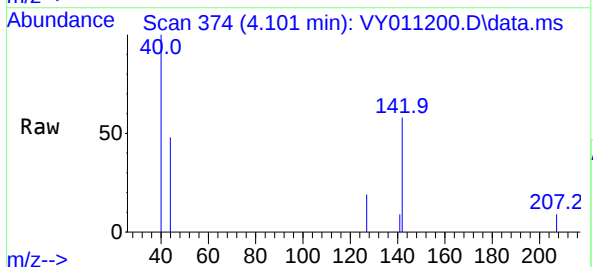
Instrument :
MSVOA_Y
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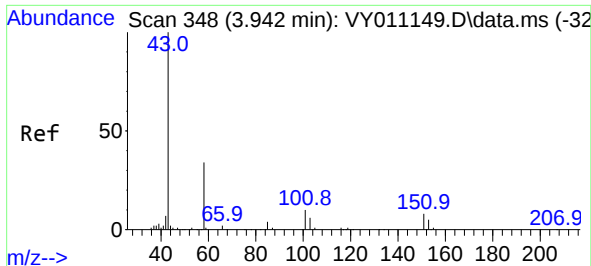
Tgt Ion: 94 Resp: 372
Ion Ratio Lower Upper
94 100
96 83.7 73.5 110.3



#10
Methyl Iodide
Concen: 17.600 ug/l
RT: 4.101 min Scan# 374
Delta R.T. 0.013 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 142 Resp: 1074
Ion Ratio Lower Upper
142 100
127 20.9 41.5 62.3#
141 4.4 11.9 17.9#

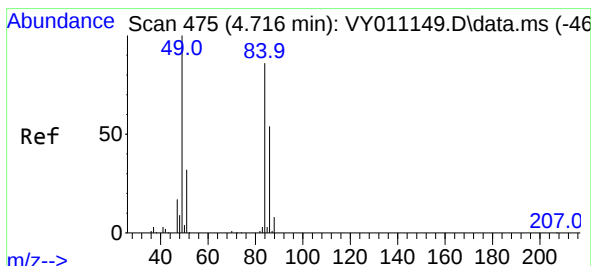
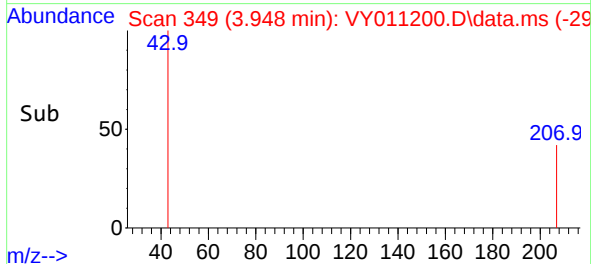
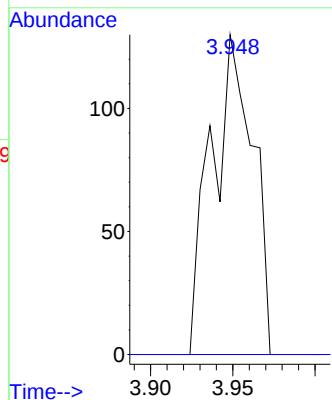
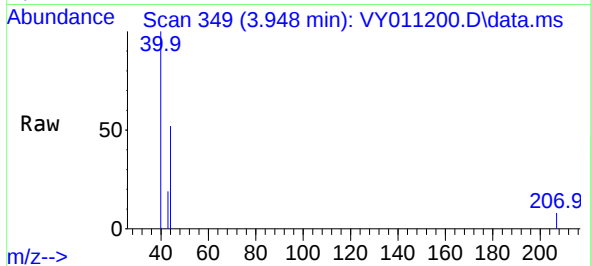




#16
Acetone
Concen: 14.506 ug/l
RT: 3.948 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

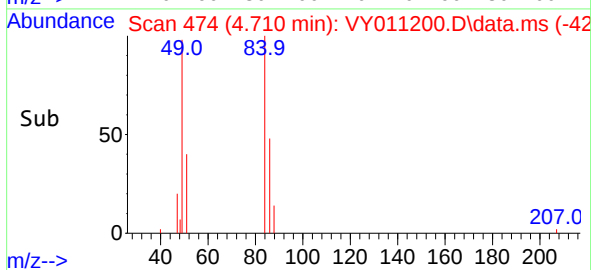
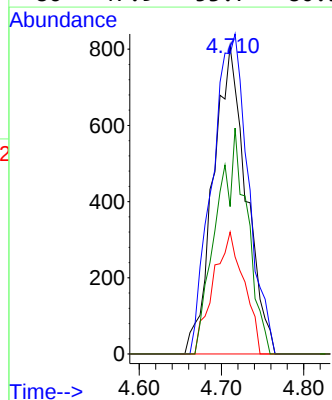
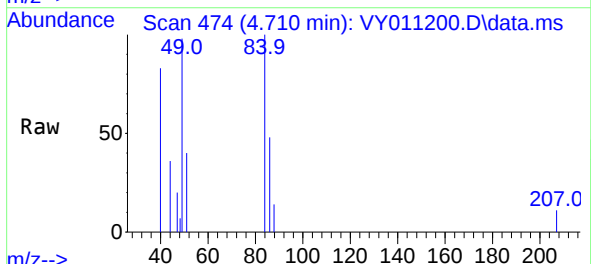
Instrument :
MSVOA_Y
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LACY-05RE

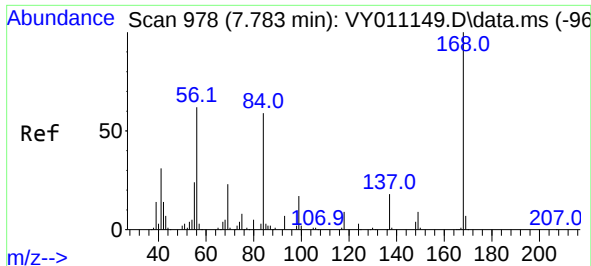
Tgt Ion: 43 Resp: 229
Ion Ratio Lower Upper
43 100
58 0.0 22.0 33.0#



#20
Methylene Chloride
Concen: 32.168 ug/l
RT: 4.710 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 84 Resp: 2253
Ion Ratio Lower Upper
84 100
49 97.5 114.4 171.6#
51 39.6 35.3 52.9
86 47.9 53.7 80.5#

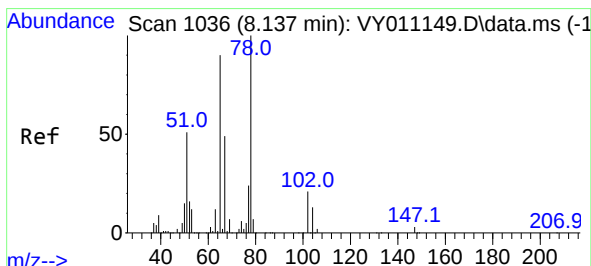
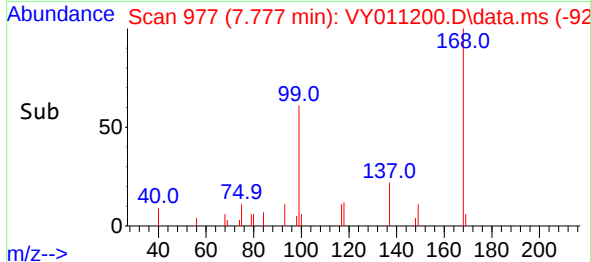
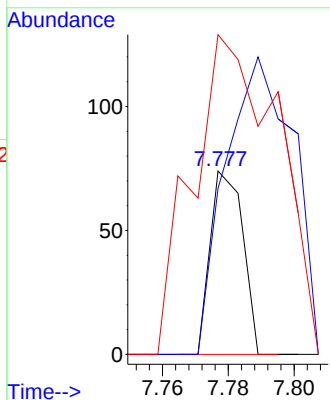
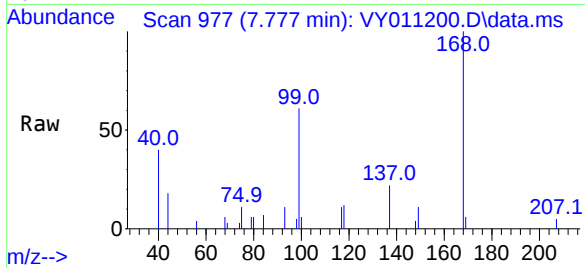




#31
Cyclohexane
Concen: Below Cal
RT: 7.777 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

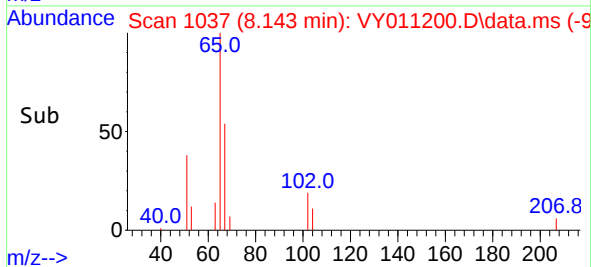
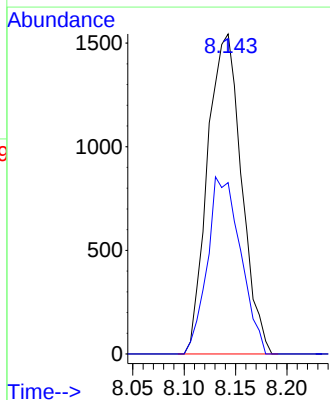
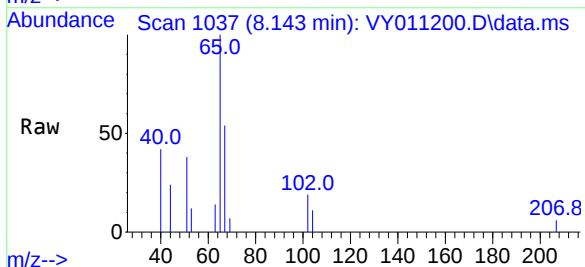
Instrument :
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ClientSampleId :
LACY-05RE

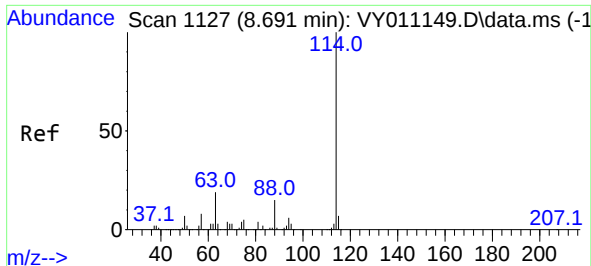
Tgt Ion: 56 Resp: 51
Ion Ratio Lower Upper
56 100
69 90.5 26.7 40.1#
84 77.0 67.2 100.8



#33
1,2-Dichloroethane-d4
Concen: 54.973 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 65 Resp: 3547
Ion Ratio Lower Upper
65 100
67 54.2 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VY011200.D

Acq: 31 Oct 2022 16:26

Instrument :

MSVOA_Y

ClientSampleId :

LACY-05RE

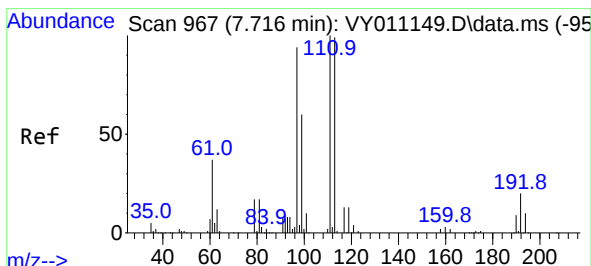
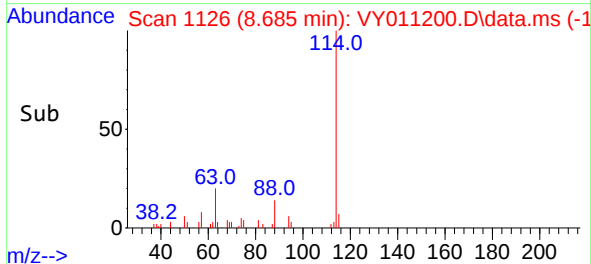
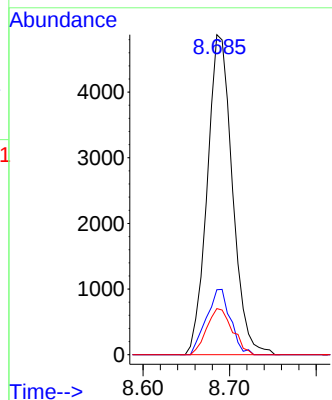
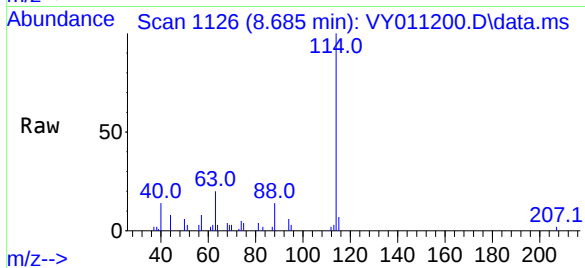
Tgt Ion:114 Resp: 9825

Ion Ratio Lower Upper

114 100

63 20.3 0.0 43.2

88 14.4 0.0 31.8



#35

Dibromofluoromethane

Concen: 33.731 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY011200.D

Acq: 31 Oct 2022 16:26

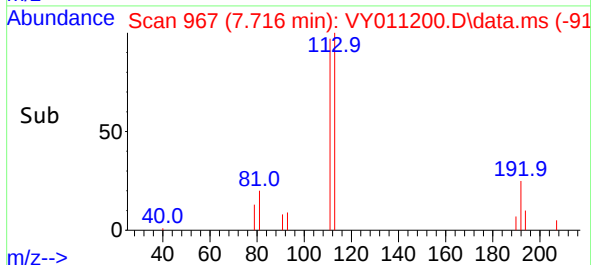
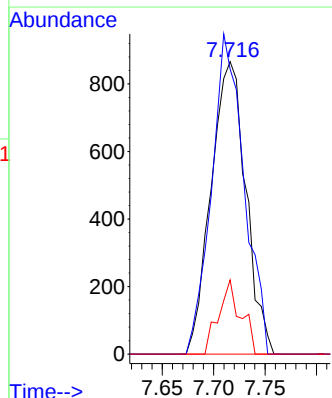
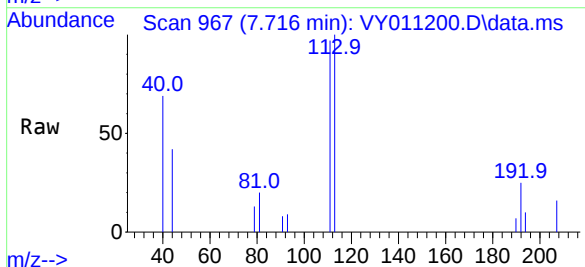
Tgt Ion:113 Resp: 2038

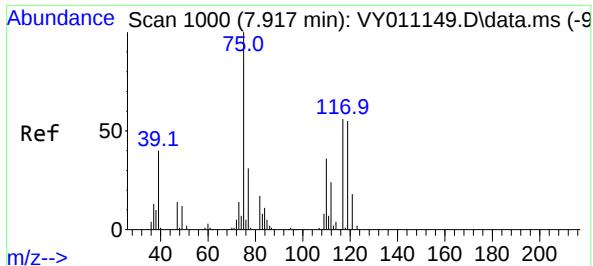
Ion Ratio Lower Upper

113 100

111 102.1 82.6 124.0

192 16.1 17.6 26.4#





#36

1,1-Dichloropropene

Concen: 6.297 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY011200.D

Acq: 31 Oct 2022 16:26

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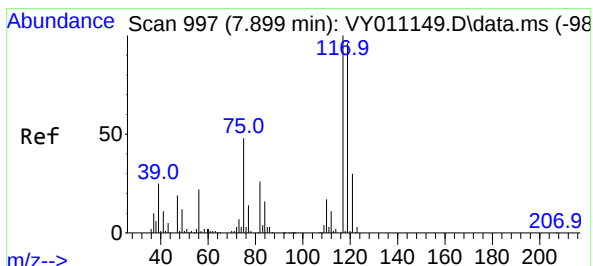
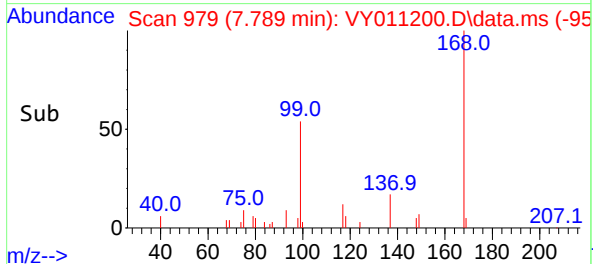
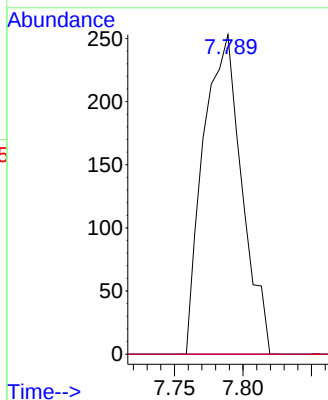
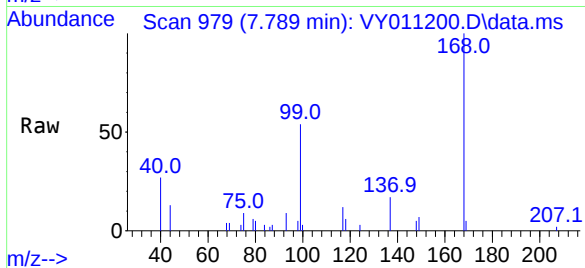
Tgt Ion: 75 Resp: 496

Ion Ratio Lower Upper

75 100

110 0.0 17.1 51.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 7.203 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY011200.D

Acq: 31 Oct 2022 16:26

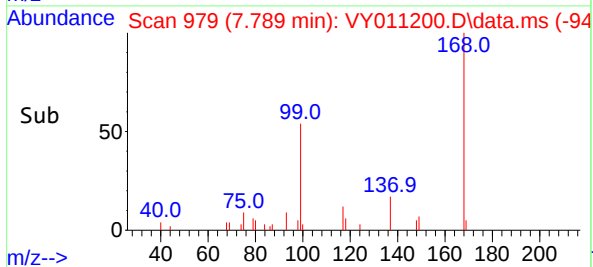
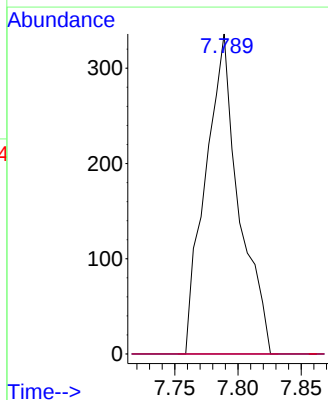
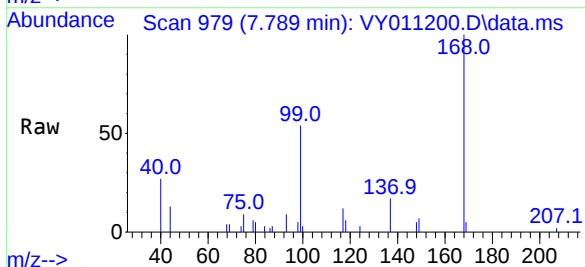
Tgt Ion: 117 Resp: 618

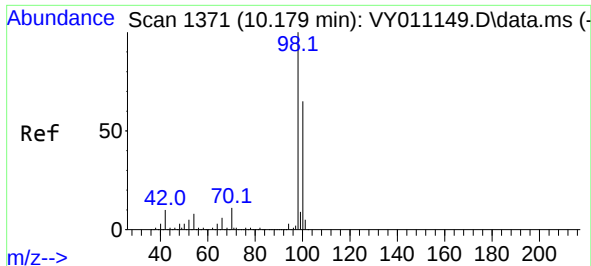
Ion Ratio Lower Upper

117 100

119 0.0 77.9 116.9#

121 0.0 24.8 37.2#

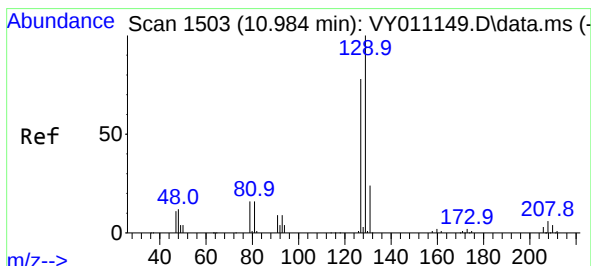
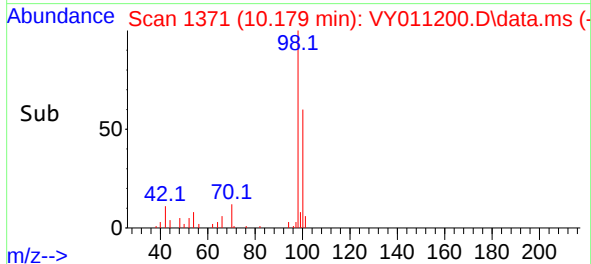
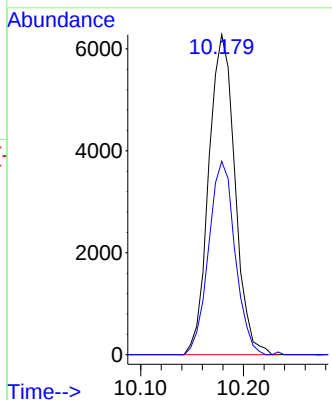
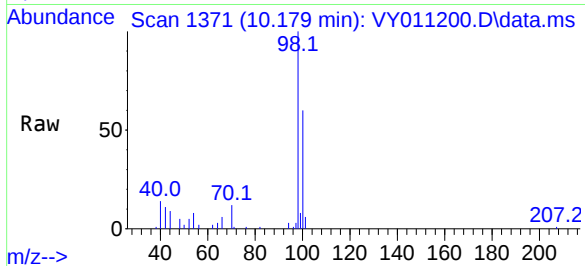




#50
Toluene-d8
Concen: 46.394 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

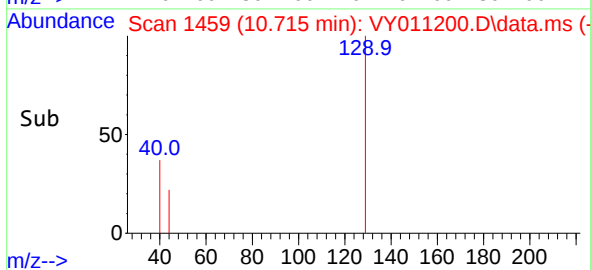
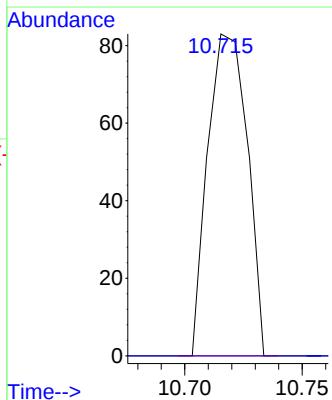
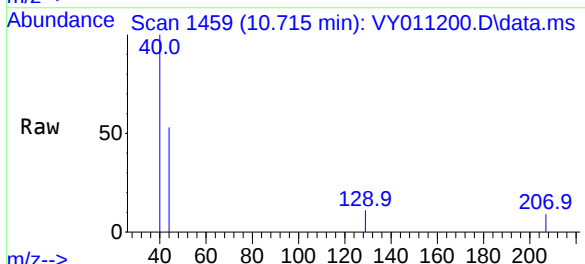
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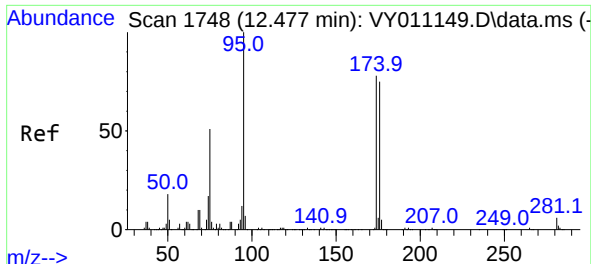
Tgt Ion: 98 Resp: 11105
Ion Ratio Lower Upper
98 100
100 61.0 50.2 75.2



#60
Dibromochloromethane
Concen: 1.588 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. -0.269 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 129 Resp: 97
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#

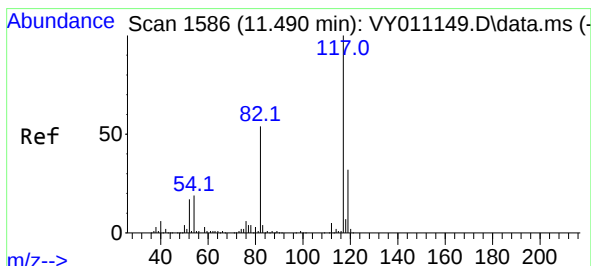
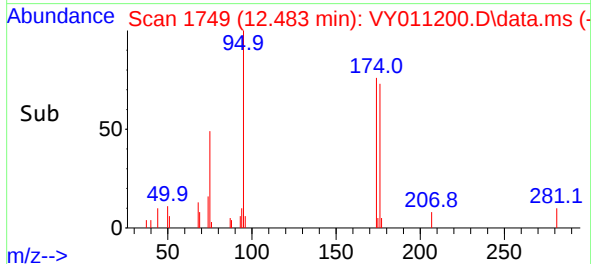
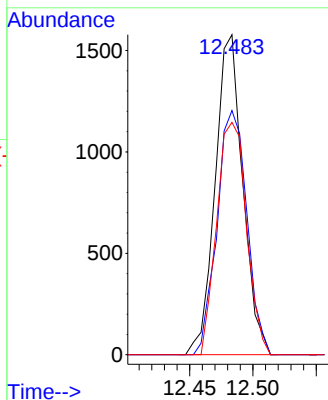
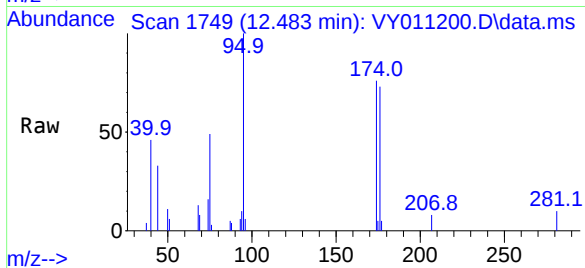




#62
4-Bromofluorobenzene
Concen: 30.541 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

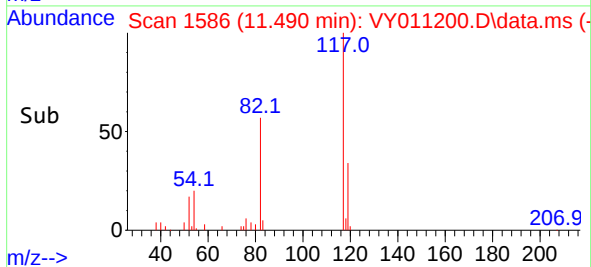
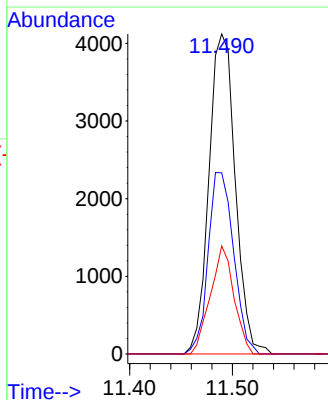
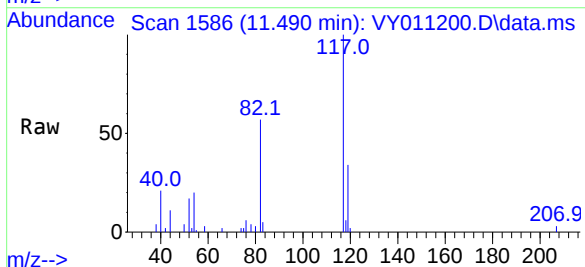
Instrument :
MSVOA_Y
ClientSampleId :
LACY-05RE

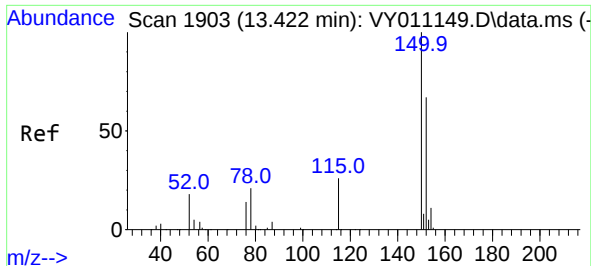
Tgt Ion: 95 Resp: 2392
Ion Ratio Lower Upper
95 100
174 82.3 0.0 177.0
176 78.1 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 117 Resp: 7339
Ion Ratio Lower Upper
117 100
82 56.6 43.0 64.4
119 33.8 25.4 38.0

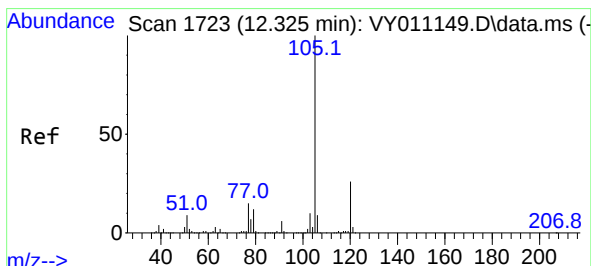
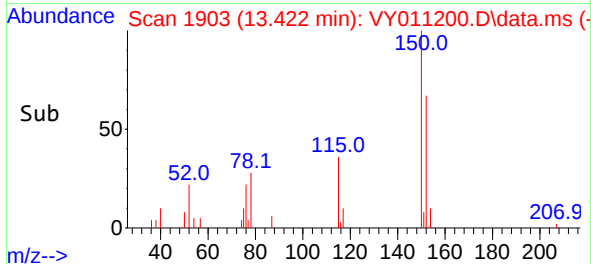
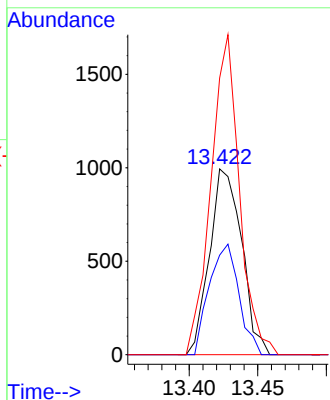
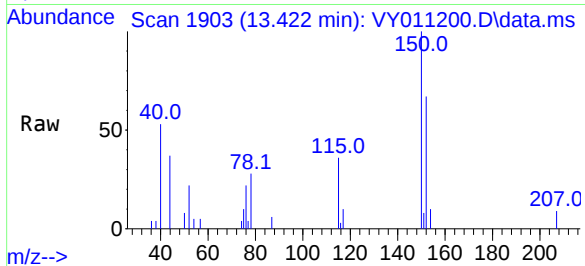




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

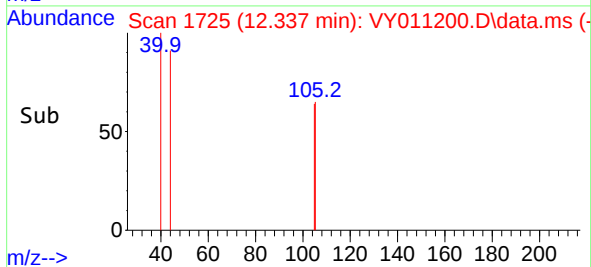
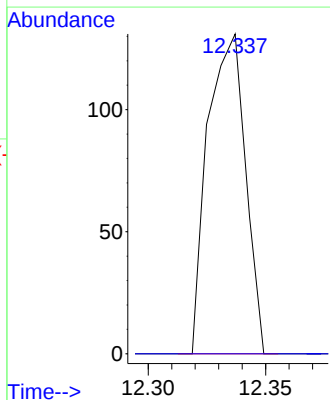
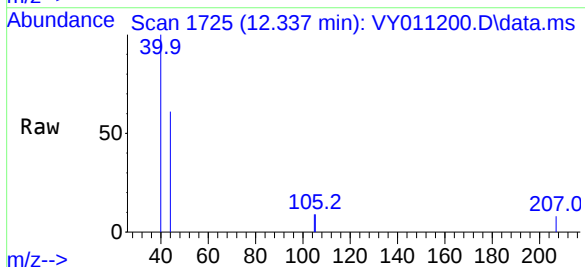
Instrument :
MSVOA_Y
ClientSampleId :
LACY-05RE

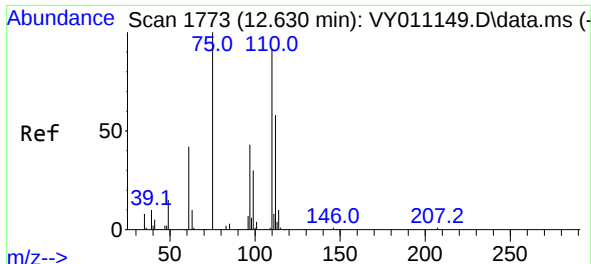
Tgt Ion:152 Resp: 1622
Ion Ratio Lower Upper
152 100
115 54.9 28.2 84.7
150 152.7 0.0 347.6



#73
Isopropylbenzene
Concen: 1.379 ug/l
RT: 12.337 min Scan# 1725
Delta R.T. 0.012 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion:105 Resp: 146
Ion Ratio Lower Upper
105 100
120 0.0 13.4 40.2#

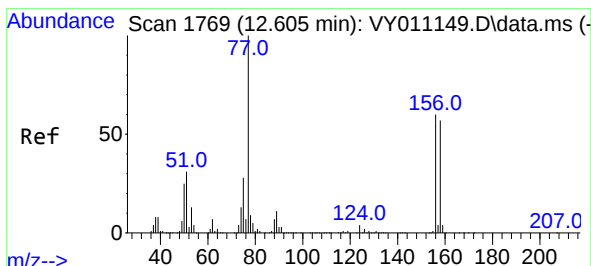
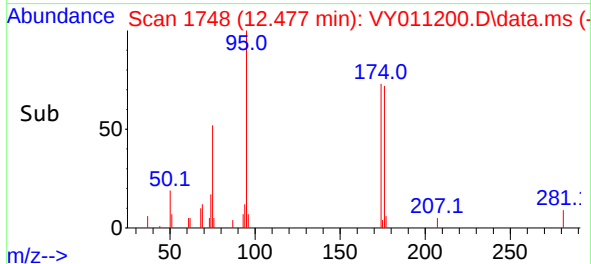
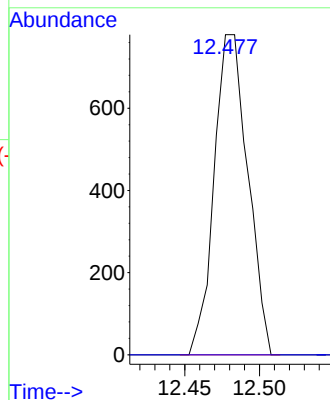
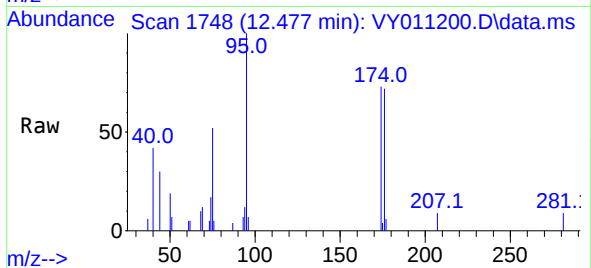




#76
1,2,3-Trichloropropane
Concen: 72.464 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.153 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

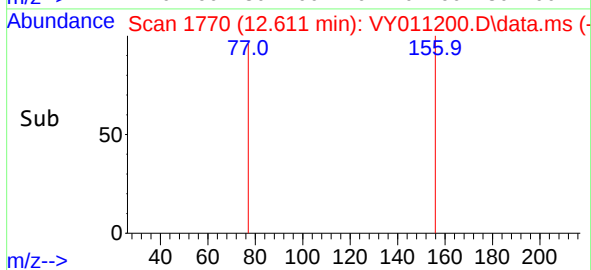
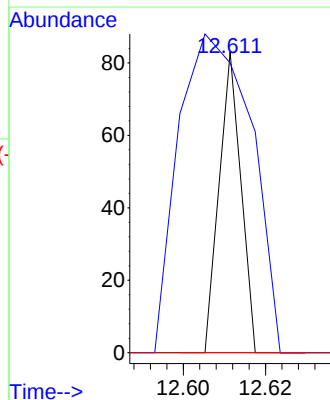
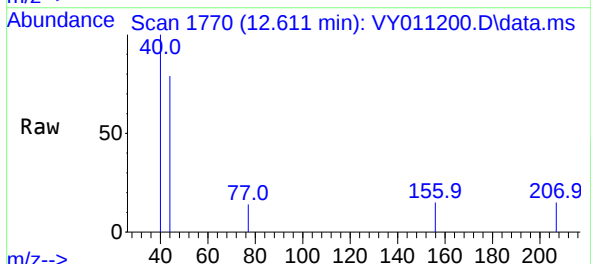
Instrument :
MSVOA_Y
ClientSampleId :
LACY-05RE

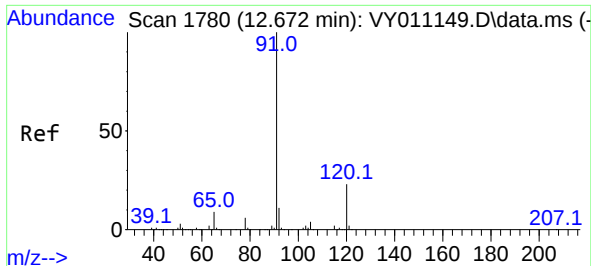
Tgt Ion: 75 Resp: 1222
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#77
Bromobenzene
Concen: 1.204 ug/l
RT: 12.611 min Scan# 1770
Delta R.T. 0.006 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 156 Resp: 30
Ion Ratio Lower Upper
156 100
77 360.0 95.5 286.4#
158 0.0 48.0 144.0#

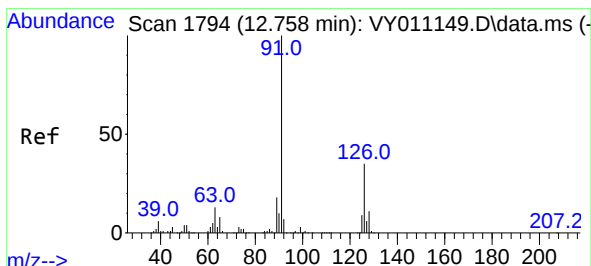
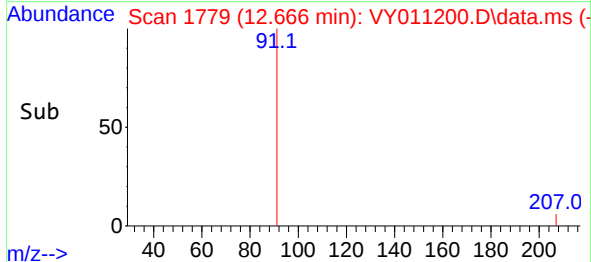
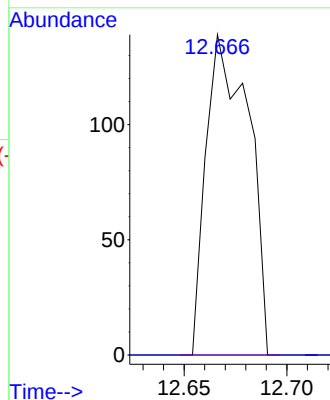
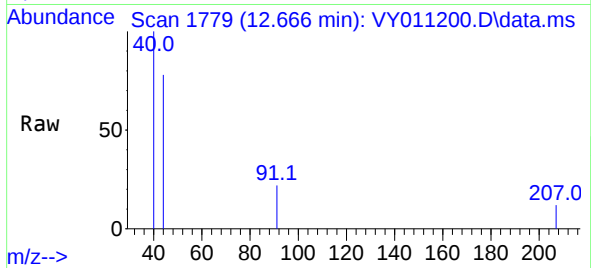




#78
n-propylbenzene
Concen: 1.553 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.006 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

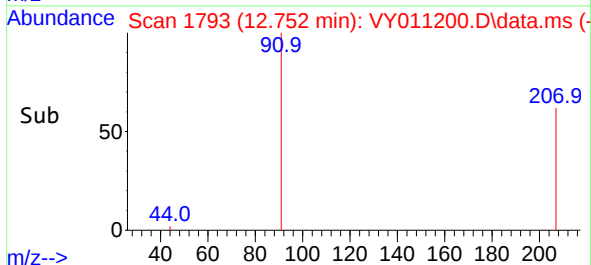
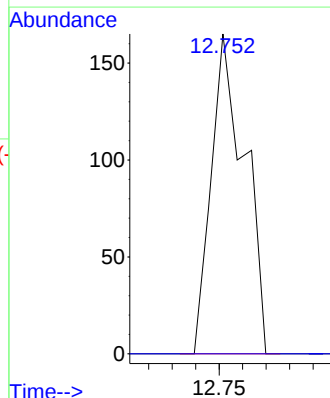
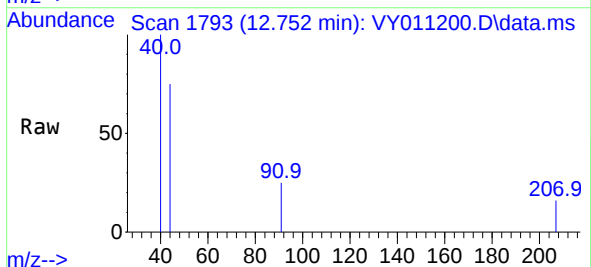
Instrument :
MSVOA_Y
ClientSampleId :
LACY-05RE

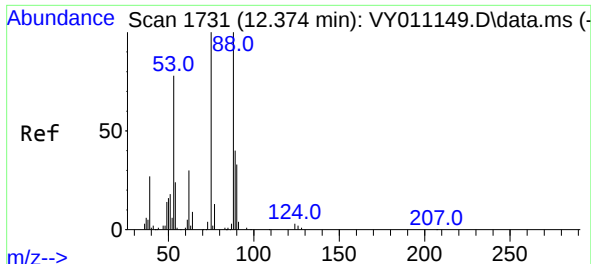
Tgt Ion: 91 Resp: 200
Ion Ratio Lower Upper
91 100
120 0.0 11.3 33.9#



#79
2-Chlorotoluene
Concen: 2.213 ug/l
RT: 12.752 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 91 Resp: 163
Ion Ratio Lower Upper
91 100
126 0.0 16.9 50.6#

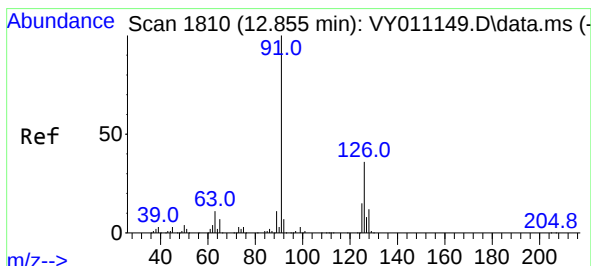
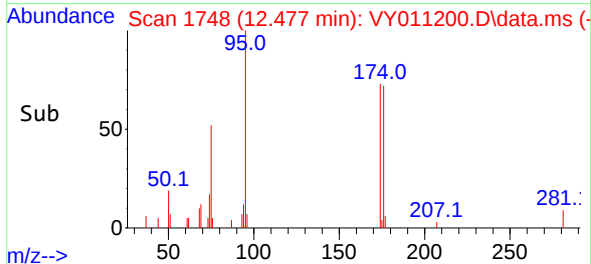
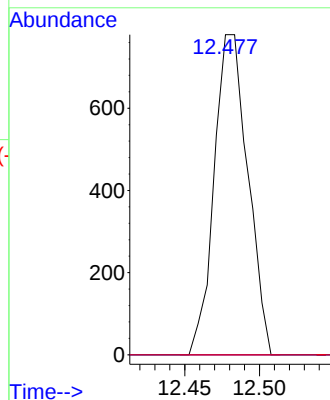
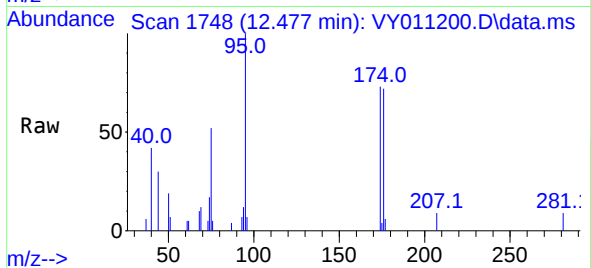




#81
trans-1,4-Dichloro-2-butene
Concen: 153.890 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

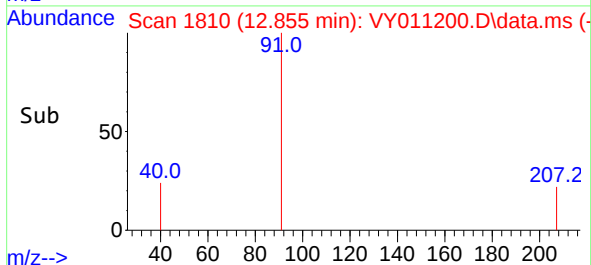
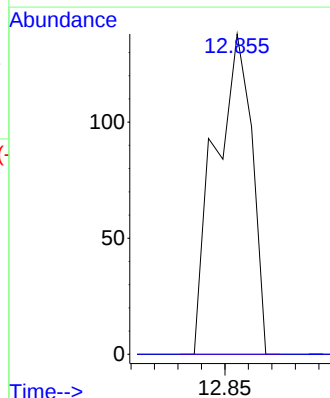
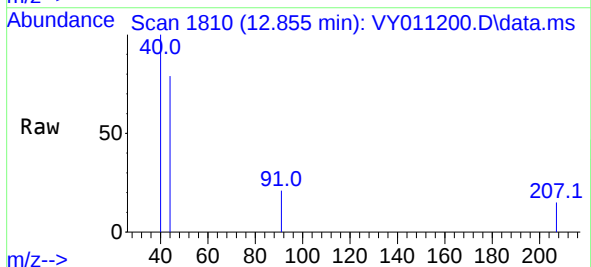
Instrument :
MSVOA_Y
ClientSampleId :
LACY-05RE

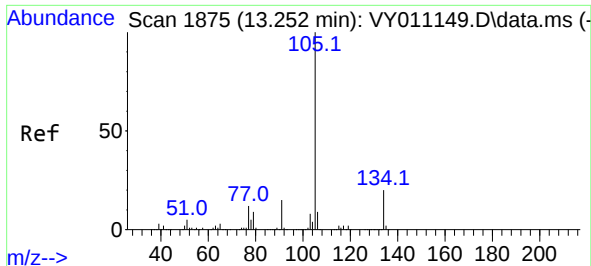
Tgt Ion: 75 Resp: 1222
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 0.0 37.0 55.4#



#82
4-Chlorotoluene
Concen: 1.976 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. 0.000 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 91 Resp: 151
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#

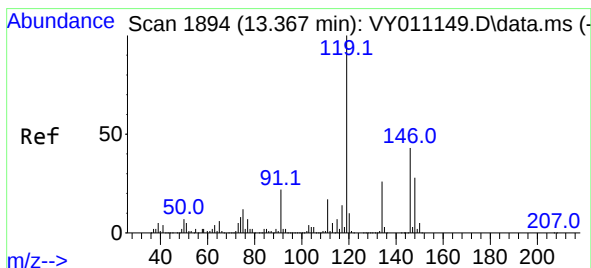
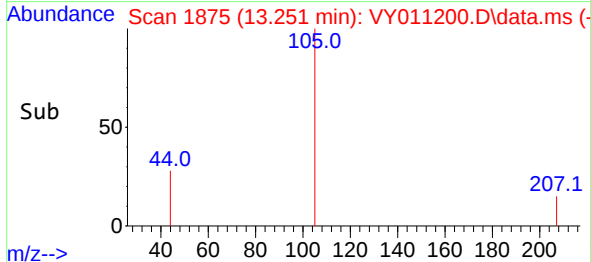
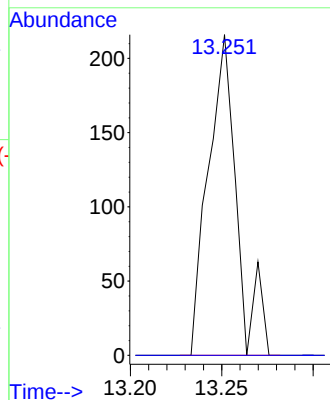
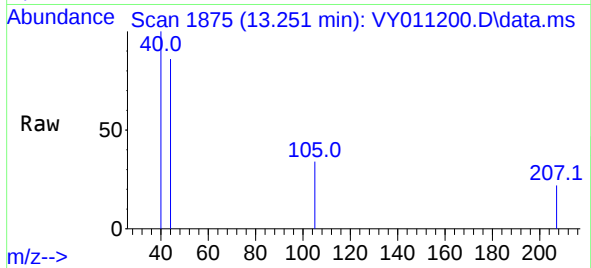




#85
 sec-Butylbenzene
 Concen: 2.018 ug/l
 RT: 13.251 min Scan# 1875
 Delta R.T. -0.001 min
 Lab File: VY011200.D
 Acq: 31 Oct 2022 16:26

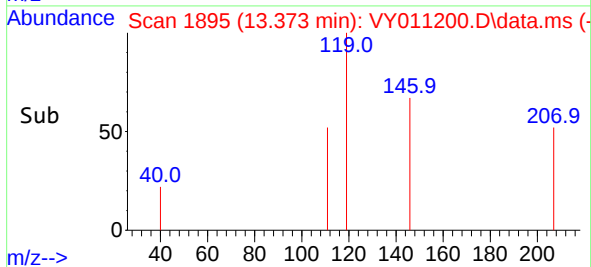
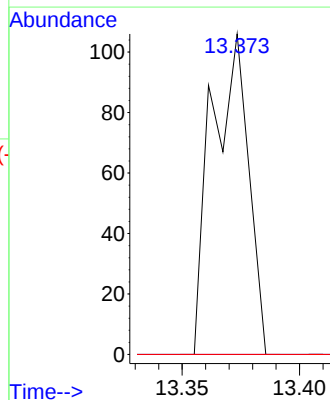
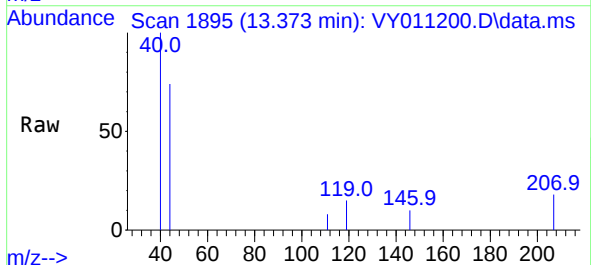
Instrument :
 MSVOA_Y
 ClientSampleId :
 LACY-05RE

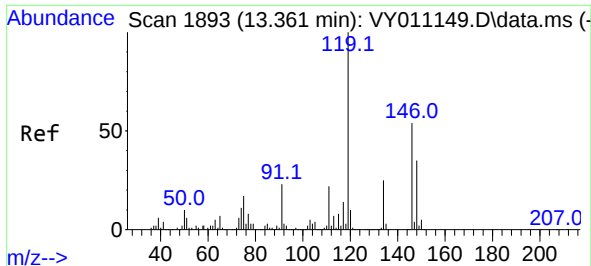
Tgt Ion:105 Resp: 235
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 1.202 ug/l
 RT: 13.373 min Scan# 1895
 Delta R.T. 0.006 min
 Lab File: VY011200.D
 Acq: 31 Oct 2022 16:26

Tgt Ion:119 Resp: 115
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.2 39.5#
 91 0.0 12.4 37.2#





#87

1,3-Dichlorobenzene

Concen: 2.393 ug/l

RT: 13.361 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY011200.D

Acq: 31 Oct 2022 16:26

Instrument :

MSVOA_Y

ClientSampleId :

LACY-05RE

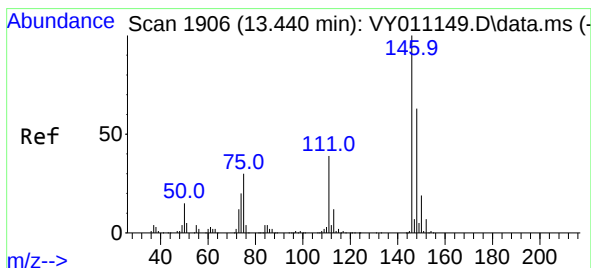
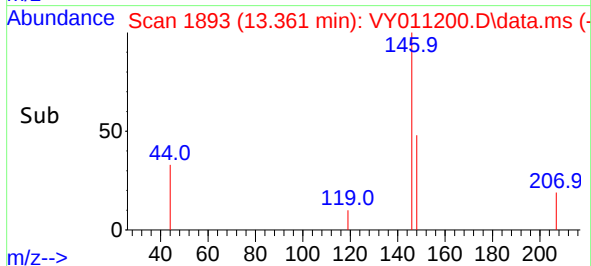
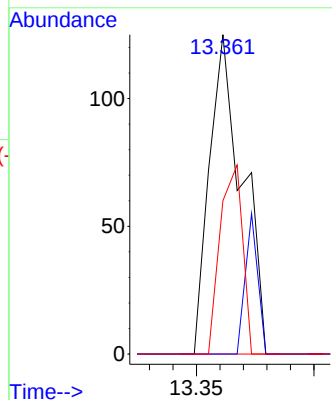
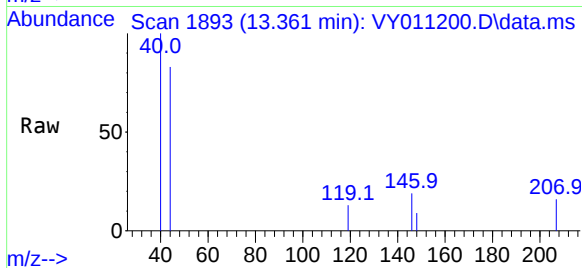
Tgt Ion:146 Resp: 121

Ion Ratio Lower Upper

146 100

111 16.5 19.5 58.5#

148 40.5 31.6 95.0



#88

1,4-Dichlorobenzene

Concen: 4.309 ug/l

RT: 13.447 min Scan# 1907

Delta R.T. 0.007 min

Lab File: VY011200.D

Acq: 31 Oct 2022 16:26

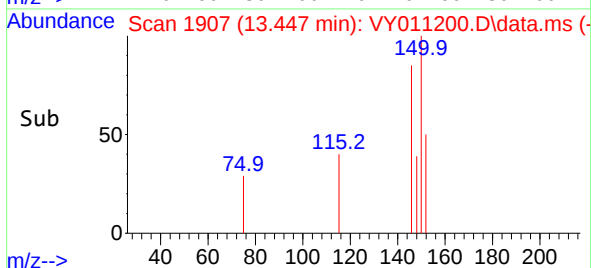
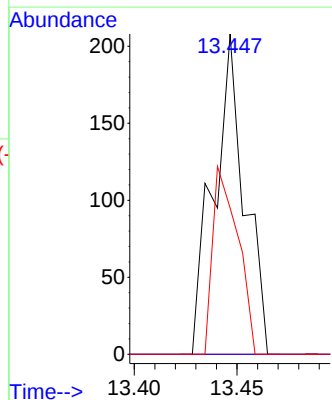
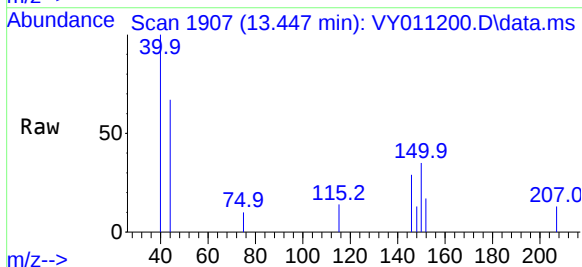
Tgt Ion:146 Resp: 218

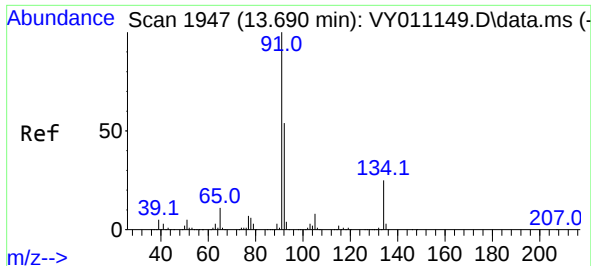
Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.8#

148 47.7 32.6 97.8

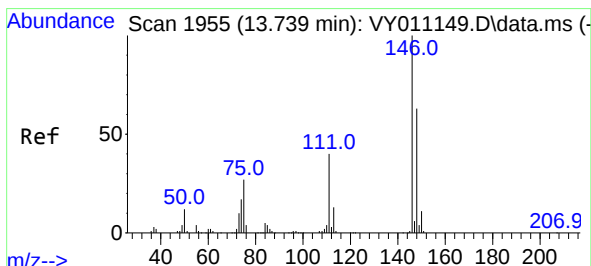
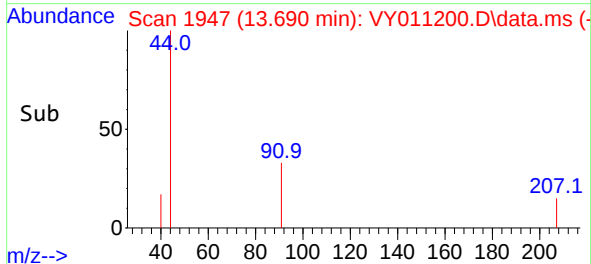
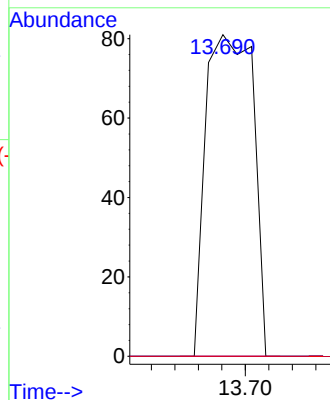
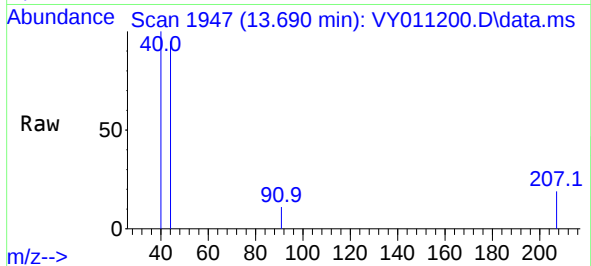




#89
n-Butylbenzene
Concen: 1.264 ug/l
RT: 13.690 min Scan# 1947
Delta R.T. 0.000 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

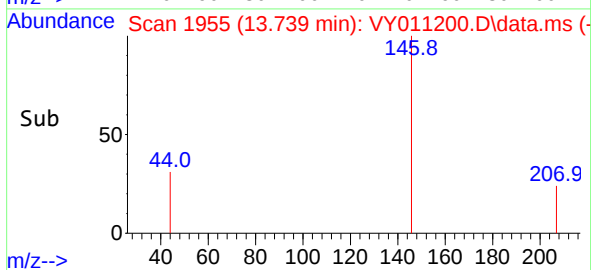
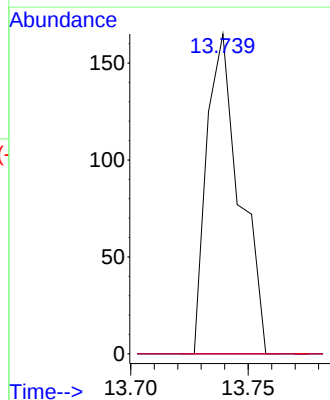
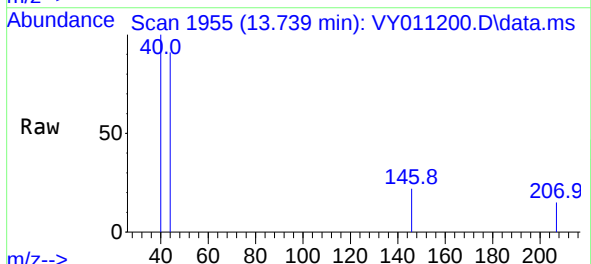
Instrument :
MSVOA_Y
ClientSampleId :
LACY-05RE

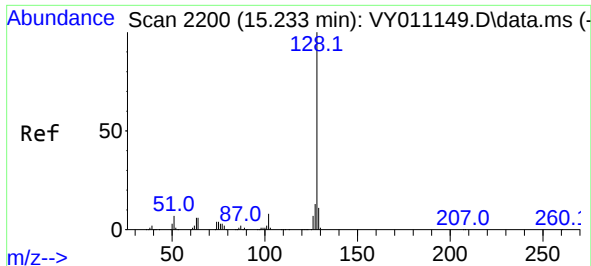
Tgt Ion: 91	Resp:	113
Ion	Ratio	Lower Upper
91	100	
92	0.0	26.3 78.9#
134	0.0	13.0 38.9#



#91
1,2-Dichlorobenzene
Concen: 3.539 ug/l
RT: 13.739 min Scan# 1955
Delta R.T. 0.000 min
Lab File: VY011200.D
Acq: 31 Oct 2022 16:26

Tgt Ion: 146	Resp:	161
Ion	Ratio	Lower Upper
146	100	
111	0.0	20.3 60.9#
148	0.0	32.3 96.9#





#95

Naphthalene

Concen: 8.209 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY011200.D

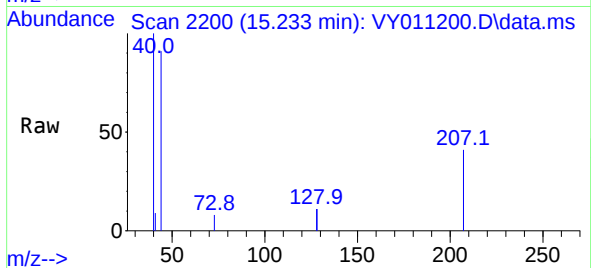
Acq: 31 Oct 2022 16:26

Instrument :

MSVOA_Y

ClientSampleId :

LACY-05RE



Tgt Ion:	128	Resp:	246
Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.0	16.4#
129	0.0	8.4	12.6#

