

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072222\
 Data File : VY009659.D
 Acq On : 22 Jul 2022 15:00
 Operator : KP/MD
 Sample : N3773-16
 Misc : 5.92g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DL-3(5-5.5)

Quant Time: Jul 23 00:54:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071822S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 19 04:22:09 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.780	168	182482	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.682	114	289991	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.487	117	278413	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.425	152	134389	50.000	ug/l	# 0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.134	65	83089	48.144	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.280%
35) Dibromofluoromethane	7.713	113	81341	44.523	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	89.040%
50) Toluene-d8	10.176	98	401364	57.148	ug/l	0.00
Spiked Amount	50.000	Range	78 - 125	Recovery	=	114.300%
62) 4-Bromofluorobenzene	12.480	95	135343	59.472	ug/l	0.00
Spiked Amount	50.000	Range	50 - 146	Recovery	=	118.940%

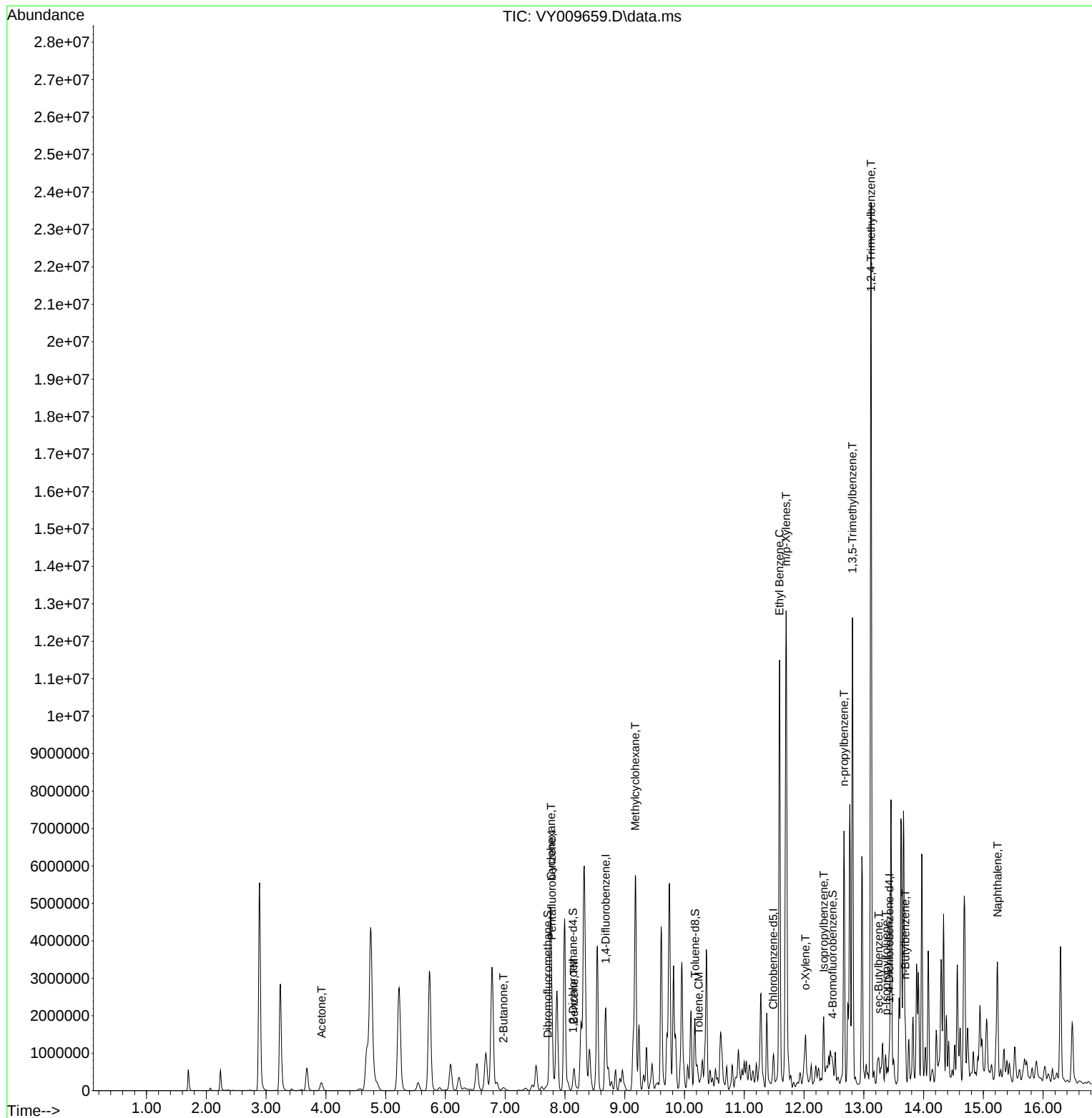
Target Compounds						Qvalue
16) Acetone	3.927	43	137633	315.251	ug/l #	65
25) 2-Butanone	6.969	43	40921	64.257	ug/l #	65
31) Cyclohexane	7.768	56	1541857	506.669	ug/l #	82
39) Methylcyclohexane	9.176	83	2062645	619.631	ug/l	93
40) Benzene	8.152	78	534198	67.624	ug/l	95
52) Toluene	10.237	92	67408	13.471	ug/l	98
67) Ethyl Benzene	11.590	91	7304722	730.015	ug/l	92
68) m/p-Xylenes	11.700	106	3885193	975.615	ug/l	88
69) o-Xylene	12.023	106	300669	80.680	ug/l	92
73) Isopropylbenzene	12.328	105	1137676	122.270	ug/l	99
78) n-propylbenzene	12.669	91	4915475	437.193	ug/l	96
80) 1,3,5-Trimethylbenzene	12.810	105	5706723	742.237	ug/l	96
84) 1,2,4-Trimethylbenzene	13.121	105	11381286	1480.166	ug/l	87
85) sec-Butylbenzene	13.249	105	387133	38.226	ug/l #	52
86) p-Isopropyltoluene	13.371	119	199854	23.482	ug/l	98
89) n-Butylbenzene	13.694	91	736099	94.699	ug/l #	74
95) Naphthalene	15.236	128	2528460	521.835	ug/l	99

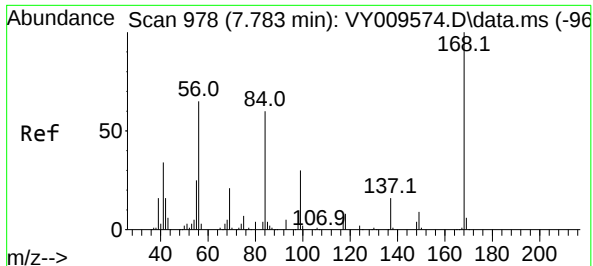
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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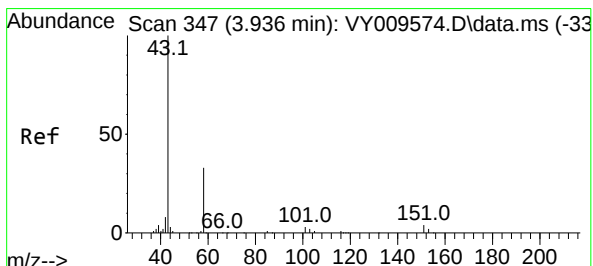
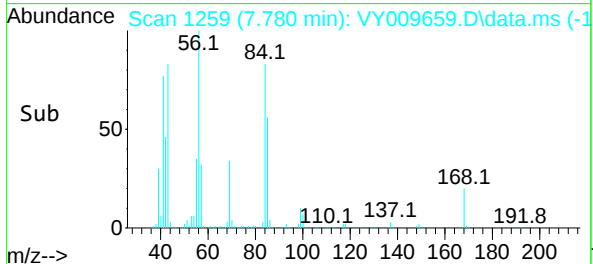
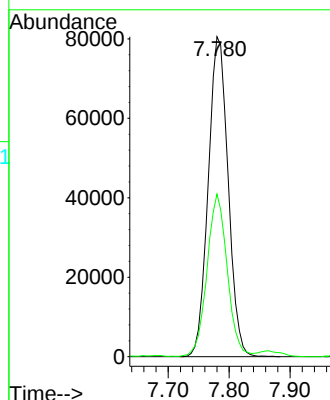
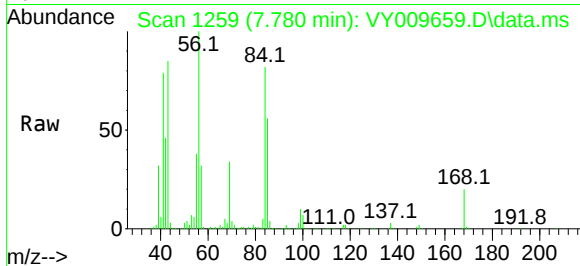




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.780 min Scan# 11
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

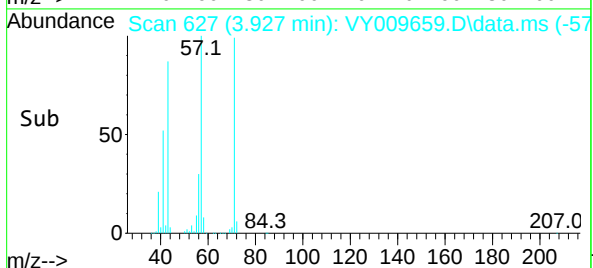
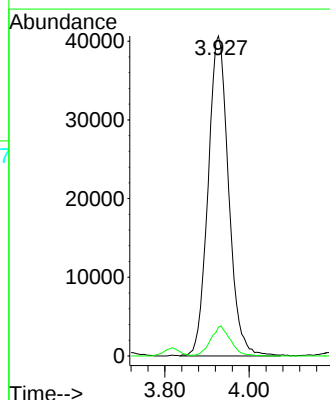
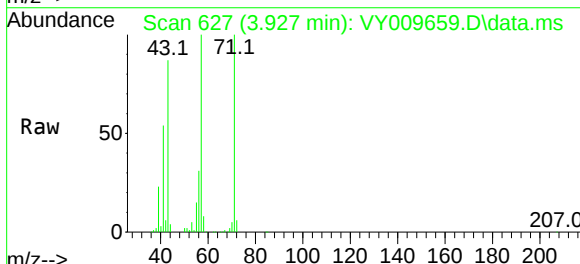
Instrument :
MSVOA_Y
ClientSampleId :
DL-3(5-5.5)

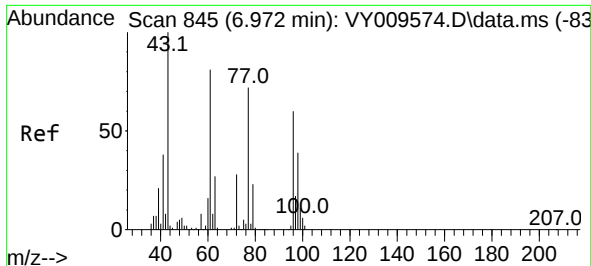
Tgt Ion:168 Resp: 182482
Ion Ratio Lower Upper
168 100
99 50.7 46.9 70.3



#16
Acetone
Concen: 315.251 ug/l
RT: 3.927 min Scan# 627
Delta R.T. -0.009 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion: 43 Resp: 137633
Ion Ratio Lower Upper
43 100
58 9.0 22.0 33.0#

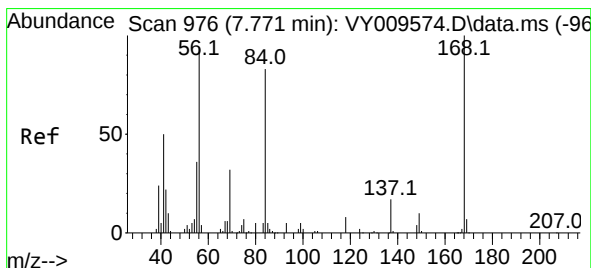
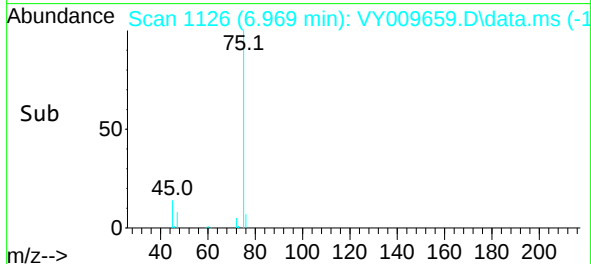
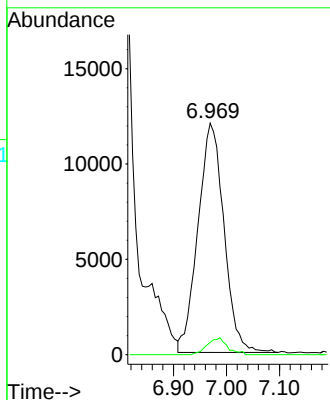
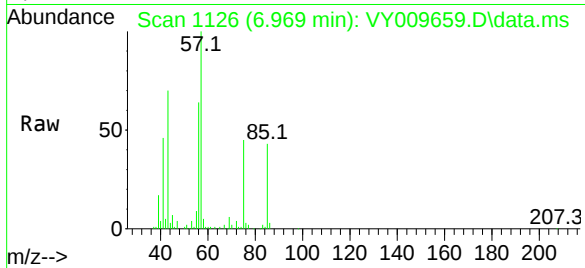




#25
2-Butanone
Concen: 64.257 ug/l
RT: 6.969 min Scan# 1126
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

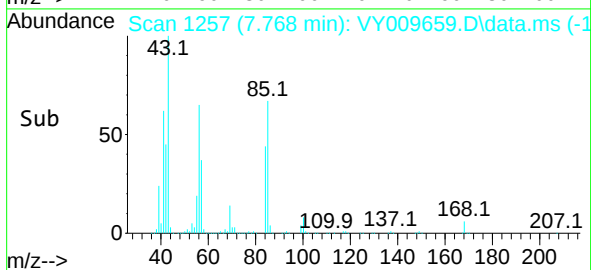
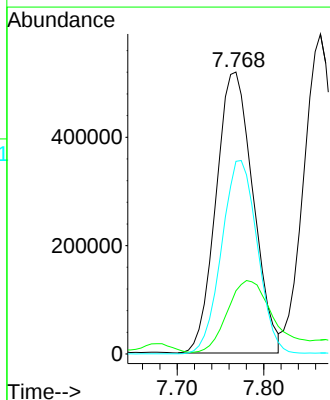
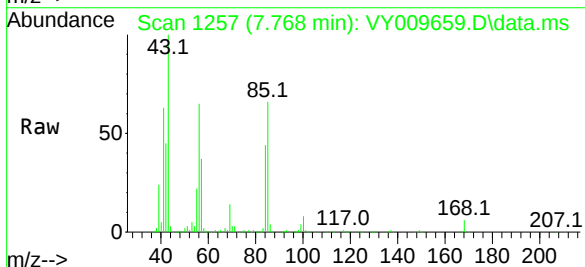
Instrument :
MSVOA_Y
ClientSampleId :
DL-3(5-5.5)

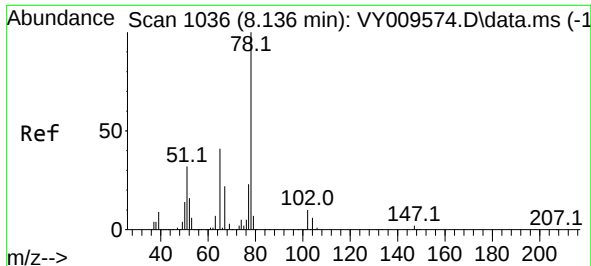
Tgt Ion: 43 Resp: 40921
Ion Ratio Lower Upper
43 100
72 5.3 17.7 26.5#



#31
Cyclohexane
Concen: 506.669 ug/l
RT: 7.768 min Scan# 1257
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion: 56 Resp: 1541857
Ion Ratio Lower Upper
56 100
69 20.9 26.7 40.1#
84 68.5 67.2 100.8





#33

1,2-Dichloroethane-d4

Concen: 48.144 ug/l

RT: 8.134 min Scan# 11

Delta R.T. -0.003 min

Lab File: VY009659.D

Acq: 22 Jul 2022 15:00

Instrument :

MSVOA_Y

ClientSampleId :

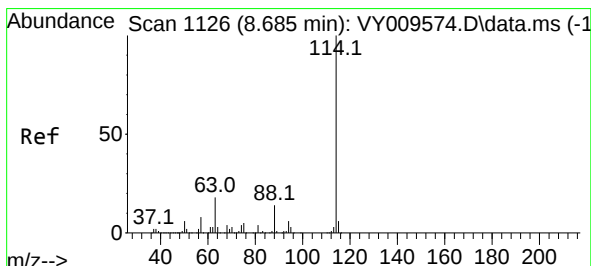
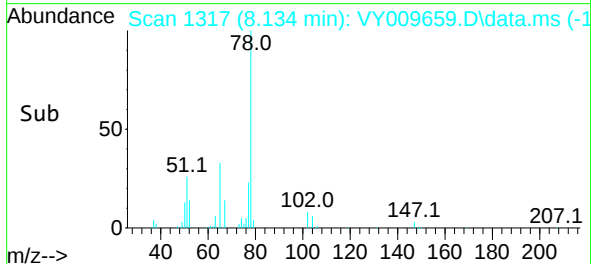
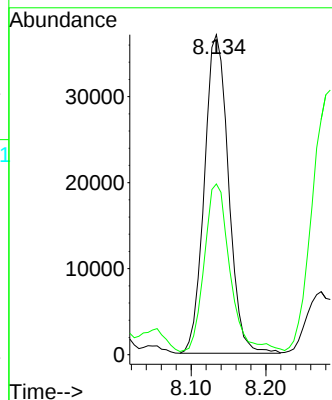
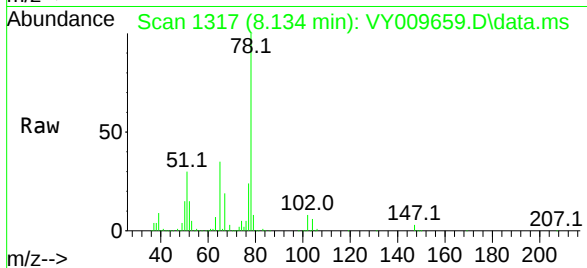
DL-3(5-5.5)

Tgt Ion: 65 Resp: 83089

Ion Ratio Lower Upper

65 100

67 55.9 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.682 min Scan# 1407

Delta R.T. -0.003 min

Lab File: VY009659.D

Acq: 22 Jul 2022 15:00

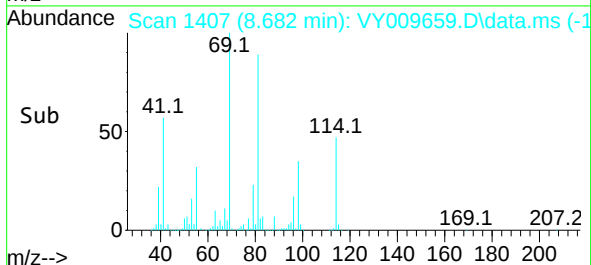
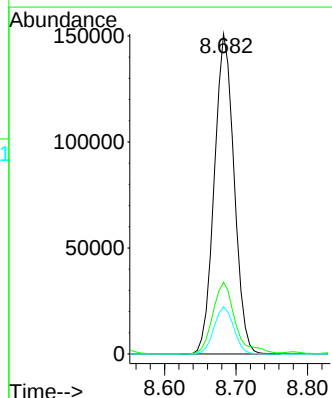
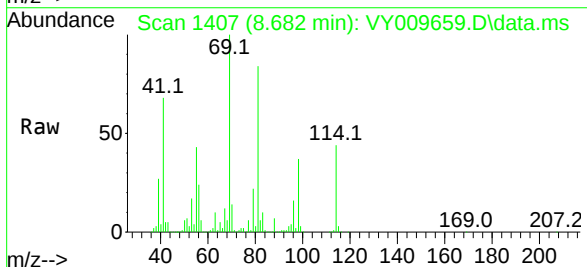
Tgt Ion: 114 Resp: 289991

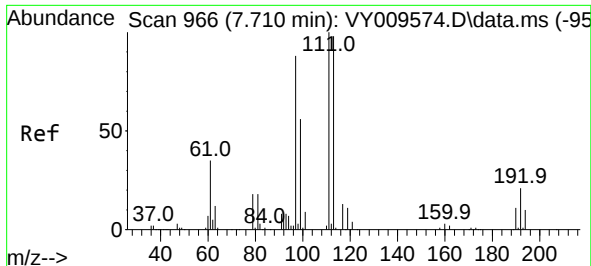
Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.2

88 14.8 0.0 31.8

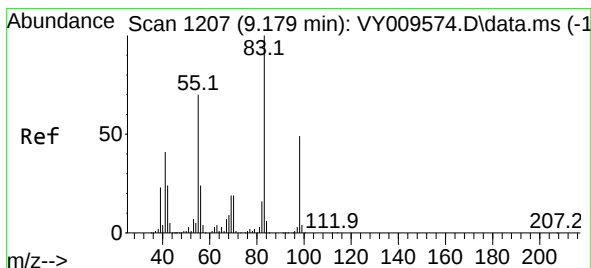
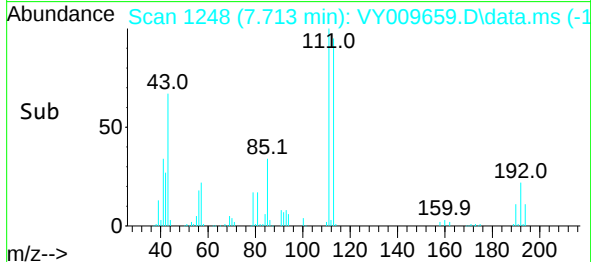
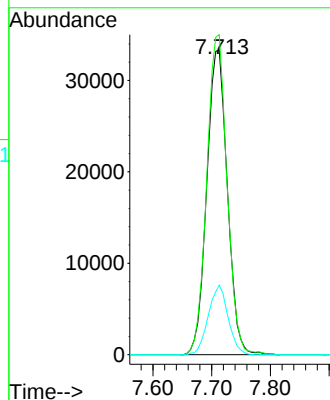
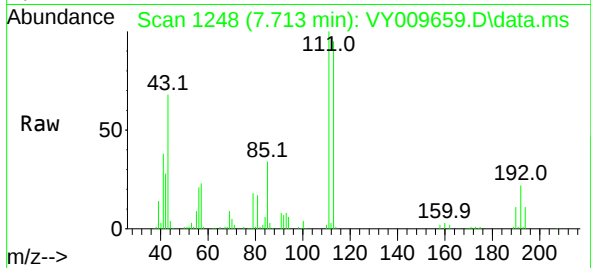




#35
Dibromofluoromethane
Concen: 44.523 ug/l
RT: 7.713 min Scan# 11
Delta R.T. 0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

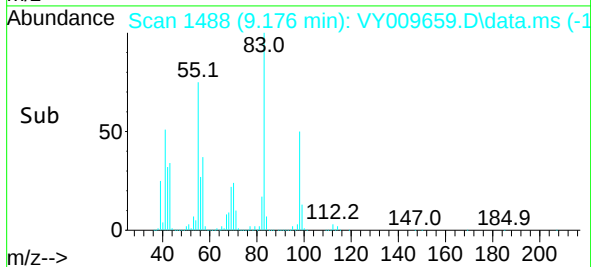
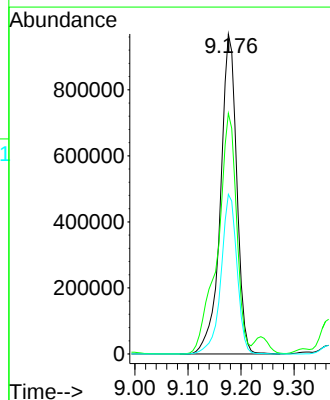
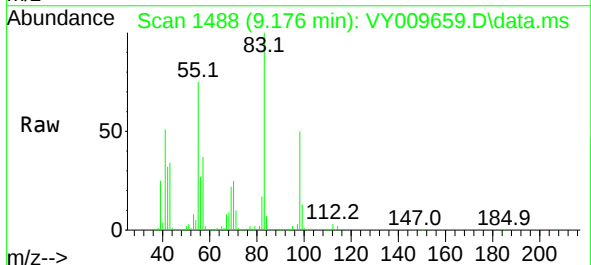
Instrument :
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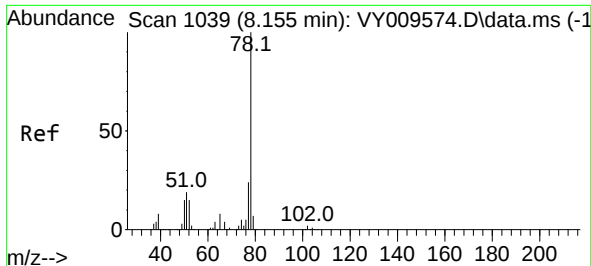
Tgt Ion:113 Resp: 81341
Ion Ratio Lower Upper
113 100
111 103.5 82.6 124.0
192 21.9 17.6 26.4



#39
Methylcyclohexane
Concen: 619.631 ug/l
RT: 9.176 min Scan# 1488
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion: 83 Resp: 2062645
Ion Ratio Lower Upper
83 100
55 75.2 66.5 99.7
98 49.9 37.9 56.9

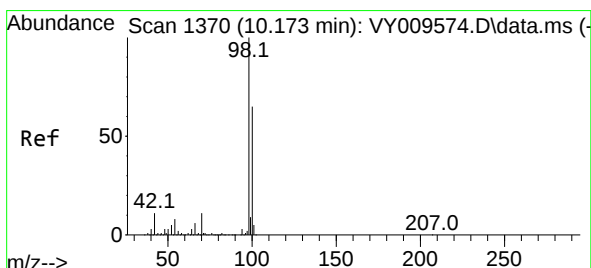
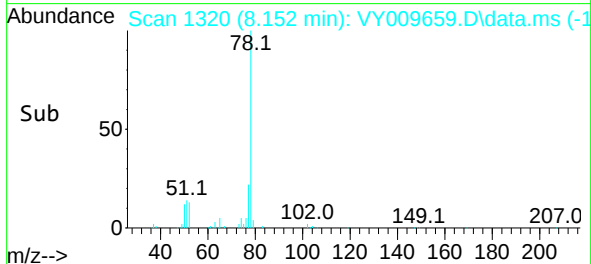
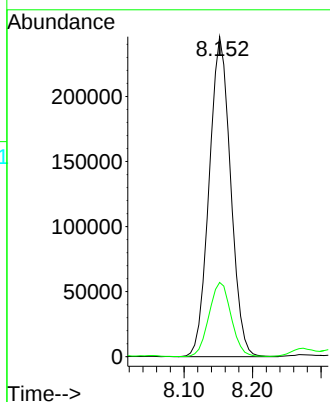
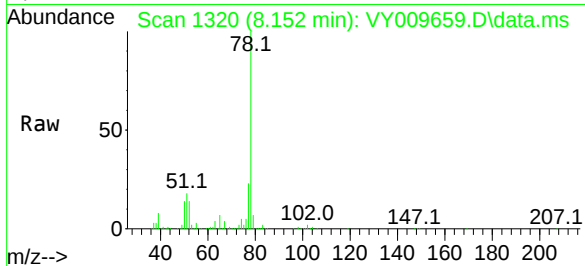




#40
Benzene
Concen: 67.624 ug/l
RT: 8.152 min Scan# 11
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

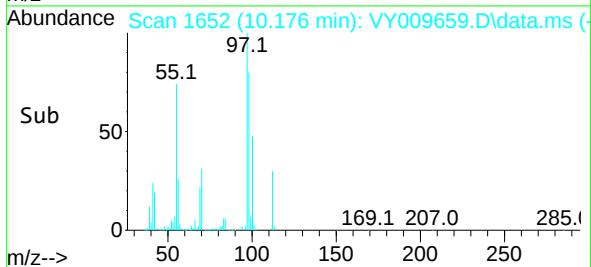
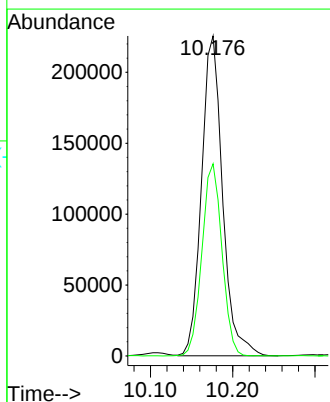
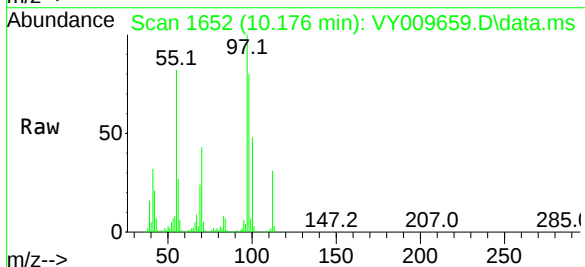
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DL-3(5-5.5)

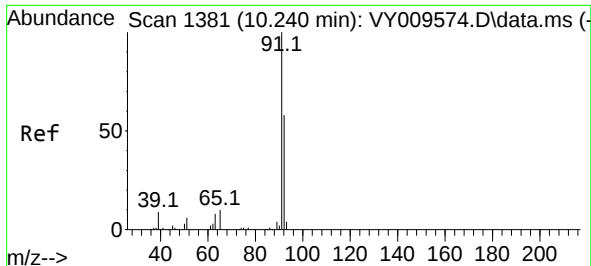
Tgt Ion: 78 Resp: 534198
Ion Ratio Lower Upper
78 100
77 23.2 20.4 30.6



#50
Toluene-d8
Concen: 57.148 ug/l
RT: 10.176 min Scan# 1652
Delta R.T. 0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion: 98 Resp: 401364
Ion Ratio Lower Upper
98 100
100 57.1 50.2 75.2

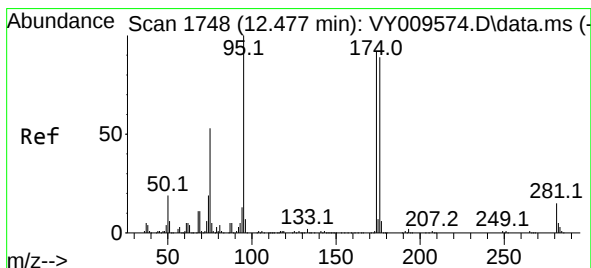
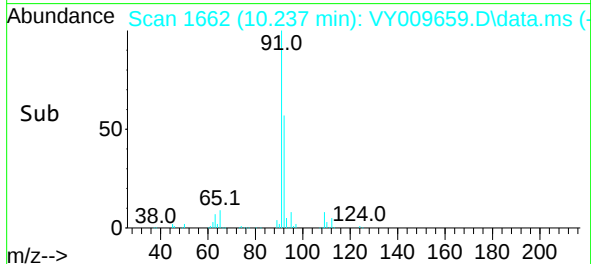
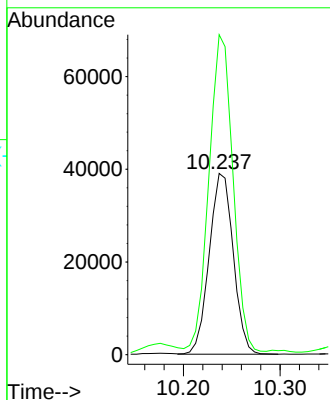
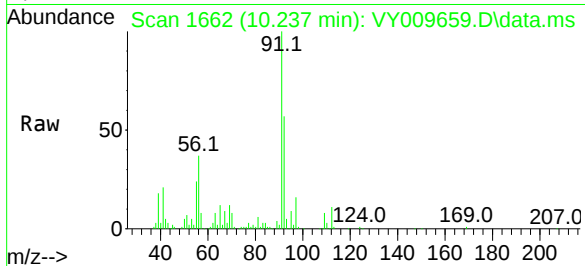




#52
Toluene
Concen: 13.471 ug/l
RT: 10.237 min Scan# 1
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

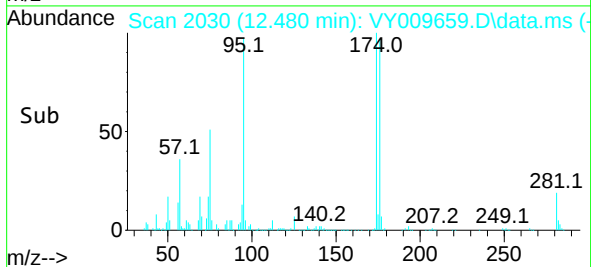
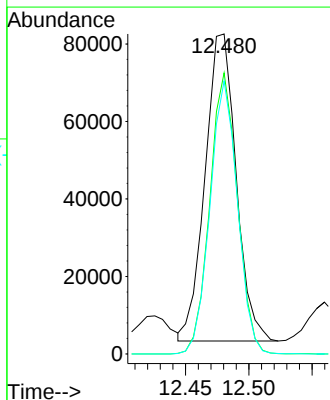
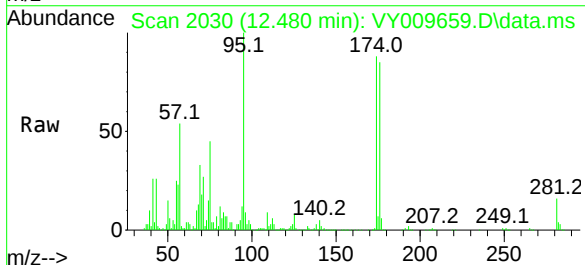
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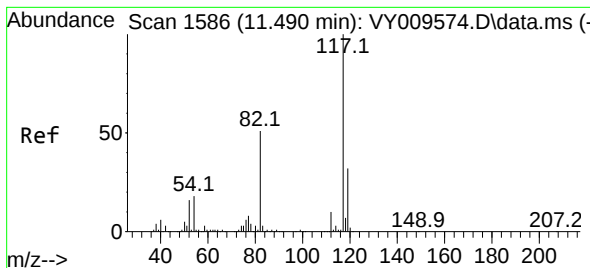
Tgt Ion: 92 Resp: 67408
Ion Ratio Lower Upper
92 100
91 175.2 142.6 213.8



#62
4-Bromofluorobenzene
Concen: 59.472 ug/l
RT: 12.480 min Scan# 2030
Delta R.T. 0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion: 95 Resp: 135343
Ion Ratio Lower Upper
95 100
174 81.3 0.0 177.0
176 78.6 0.0 175.8

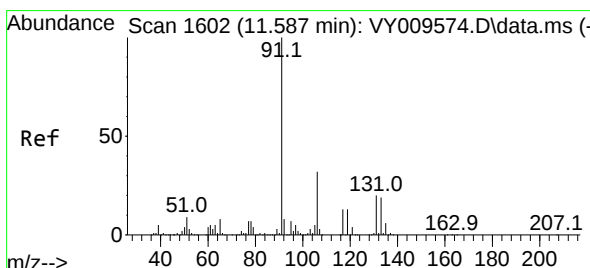
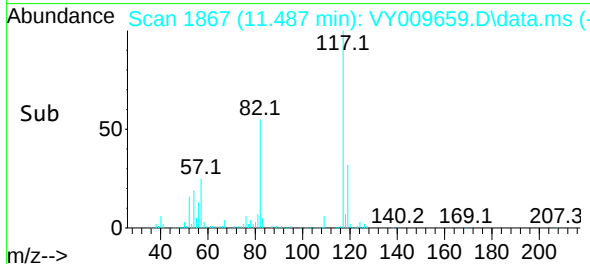
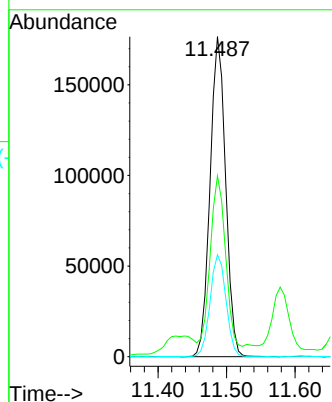
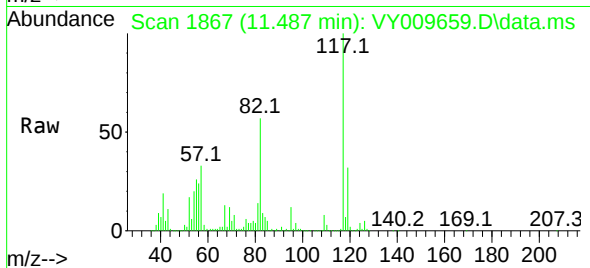




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.487 min Scan# 117
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

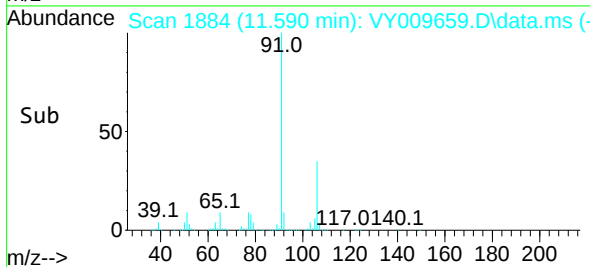
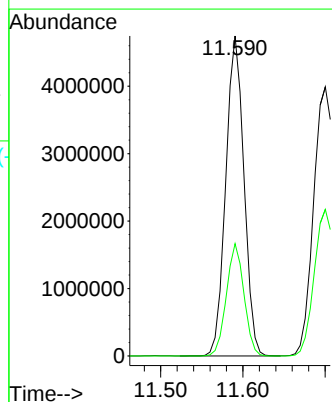
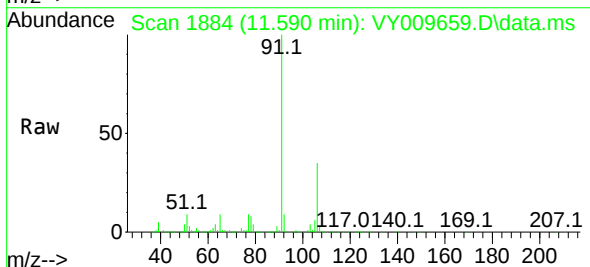
Instrument :
MSVOA_Y
ClientSampleId :
DL-3(5-5.5)

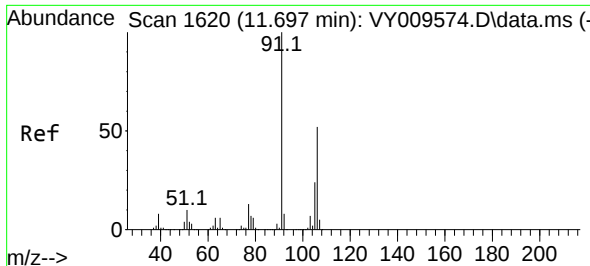
Tgt Ion:117 Resp: 278413
Ion Ratio Lower Upper
117 100
82 50.3 43.0 64.4
119 31.8 25.4 38.0



#67
Ethyl Benzene
Concen: 730.015 ug/l
RT: 11.590 min Scan# 1884
Delta R.T. 0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion: 91 Resp: 7304722
Ion Ratio Lower Upper
91 100
106 35.1 24.5 36.7

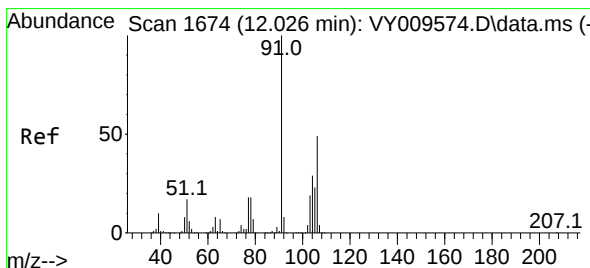
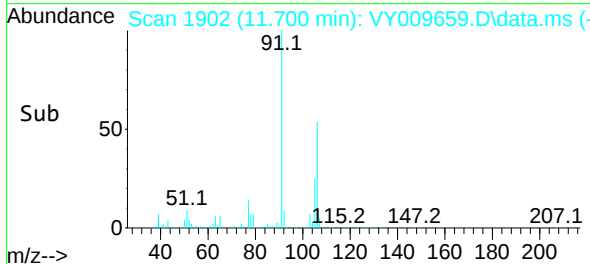
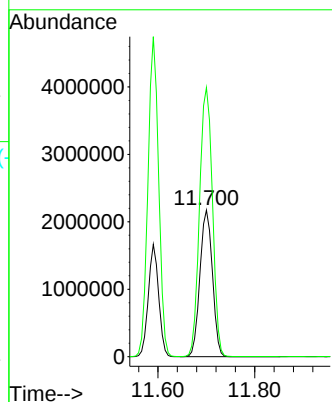
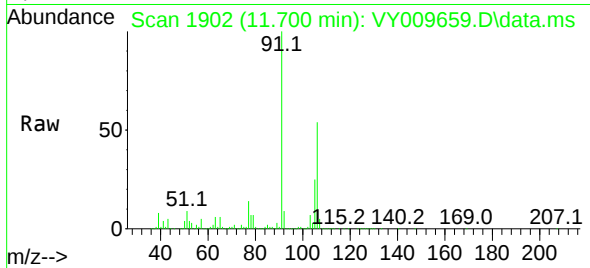




#68
m/p-Xylenes
Concen: 975.615 ug/l
RT: 11.700 min Scan# 1955
Delta R.T. 0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

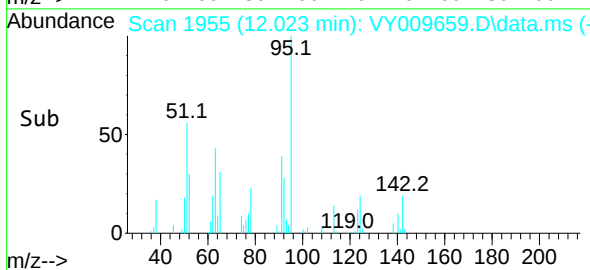
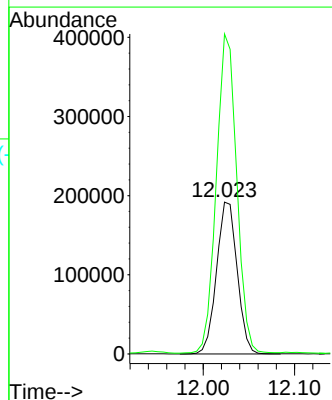
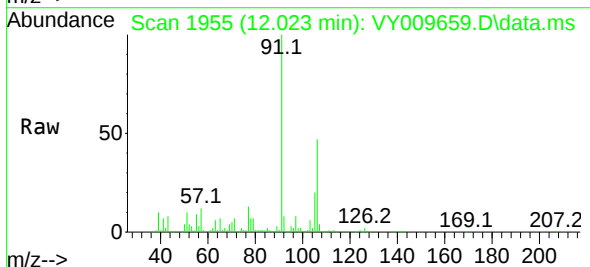
Instrument :
MSVOA_Y
ClientSampleId :
DL-3(5-5.5)

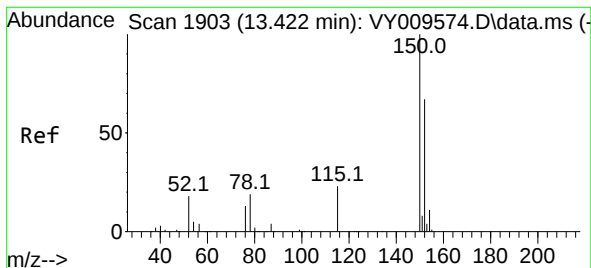
Tgt Ion:106 Resp: 3885193
Ion Ratio Lower Upper
106 100
91 189.7 166.6 249.8



#69
o-Xylene
Concen: 80.680 ug/l
RT: 12.023 min Scan# 1955
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion:106 Resp: 300669
Ion Ratio Lower Upper
106 100
91 207.7 110.3 331.0

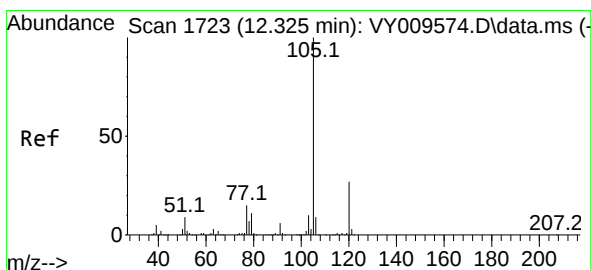
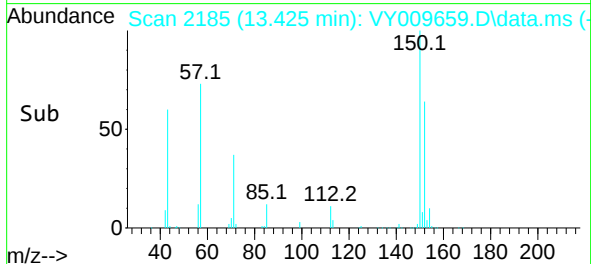
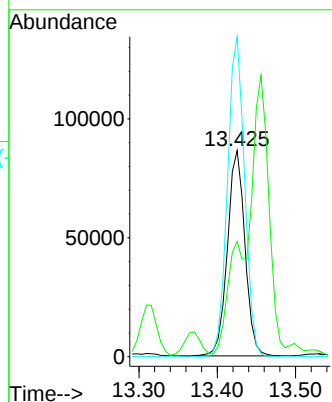
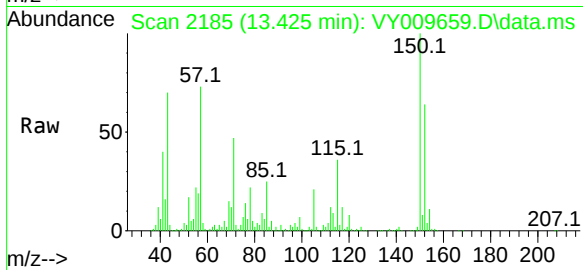




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.425 min Scan# 2185
 Delta R.T. 0.003 min
 Lab File: VY009659.D
 Acq: 22 Jul 2022 15:00

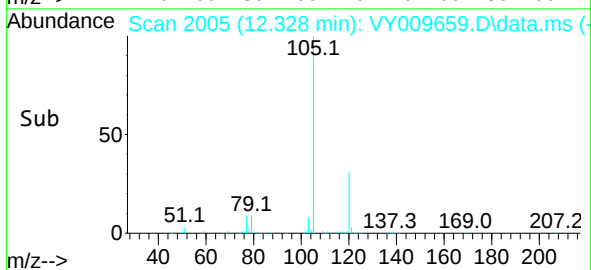
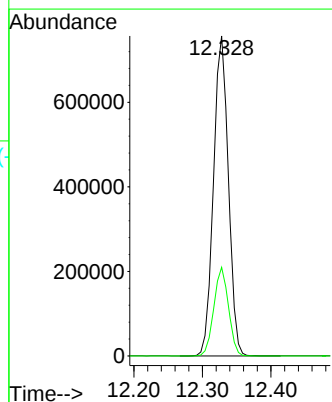
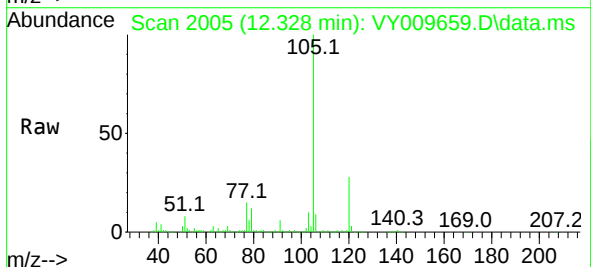
Instrument :
 MSVOA_Y
 ClientSampleId :
 DL-3(5-5.5)

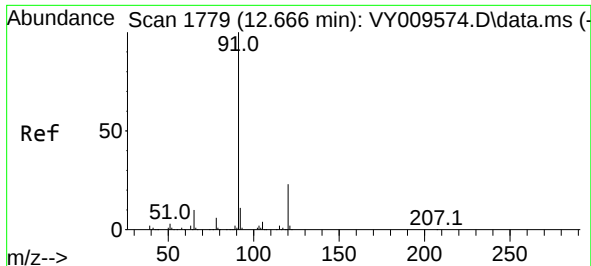
Tgt Ion:152 Resp: 134389
 Ion Ratio Lower Upper
 152 100
 115 0.0 28.2 84.7#
 150 151.8 0.0 347.6



#73
 Isopropylbenzene
 Concen: 122.270 ug/l
 RT: 12.328 min Scan# 2005
 Delta R.T. 0.003 min
 Lab File: VY009659.D
 Acq: 22 Jul 2022 15:00

Tgt Ion:105 Resp: 1137676
 Ion Ratio Lower Upper
 105 100
 120 27.2 13.4 40.2

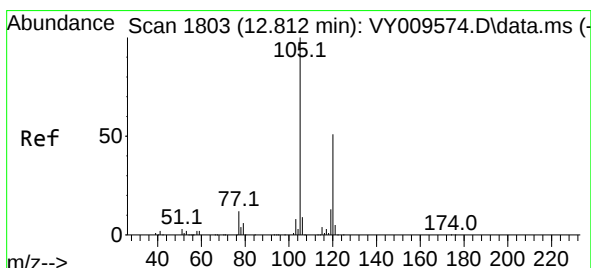
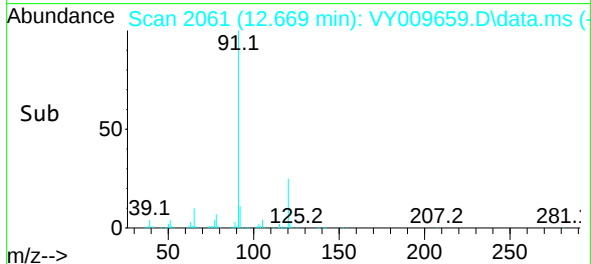
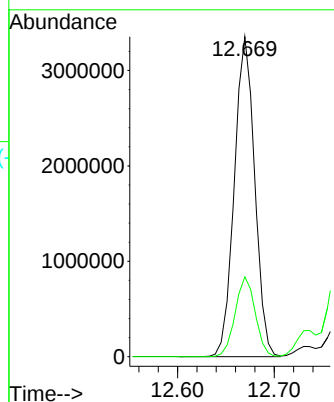
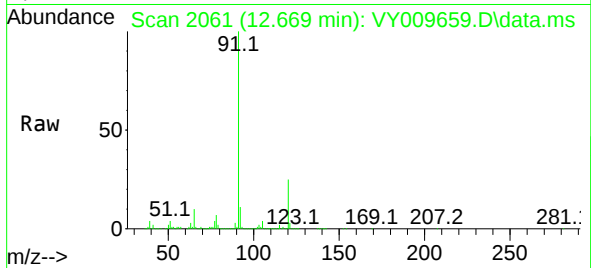




#78
n-propylbenzene
Concen: 437.193 ug/l
RT: 12.669 min Scan# 2084
Delta R.T. 0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

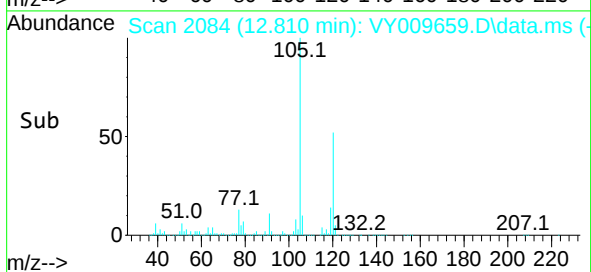
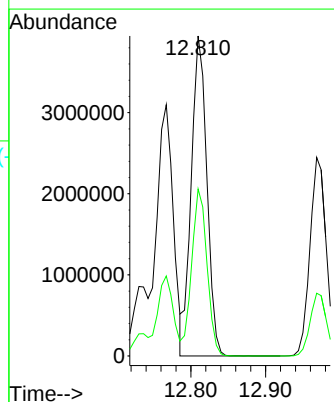
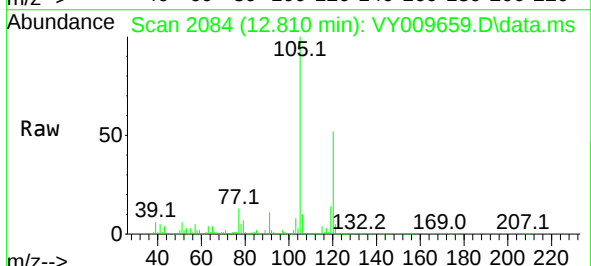
Instrument :
MSVOA_Y
ClientSampleId :
DL-3(5-5.5)

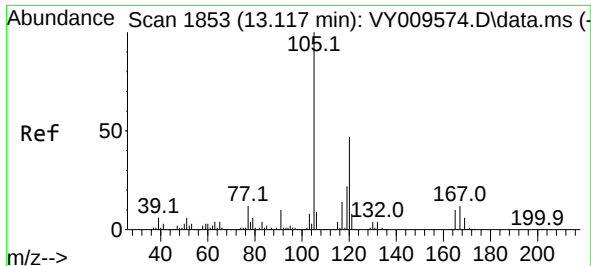
Tgt Ion: 91 Resp: 4915475
Ion Ratio Lower Upper
91 100
120 24.5 11.3 33.9



#80
1,3,5-Trimethylbenzene
Concen: 742.237 ug/l
RT: 12.810 min Scan# 2084
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion:105 Resp: 5706723
Ion Ratio Lower Upper
105 100
120 51.5 24.4 73.4

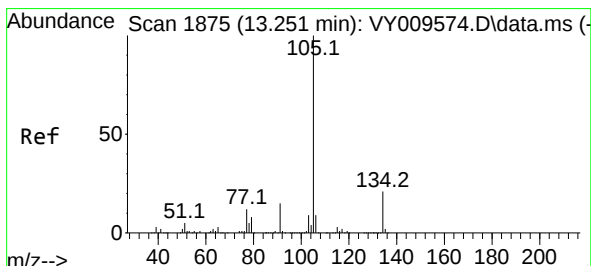
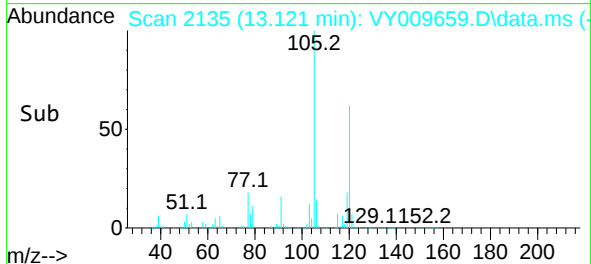
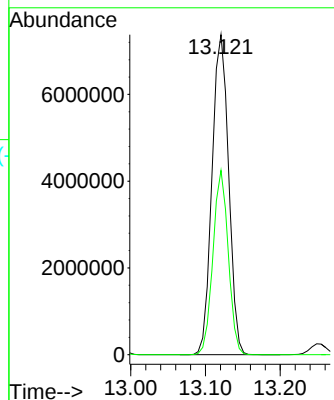
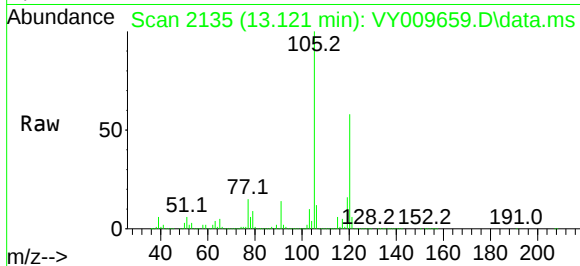




#84
1,2,4-Trimethylbenzene
Concen: 1480.166 ug/l
RT: 13.121 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

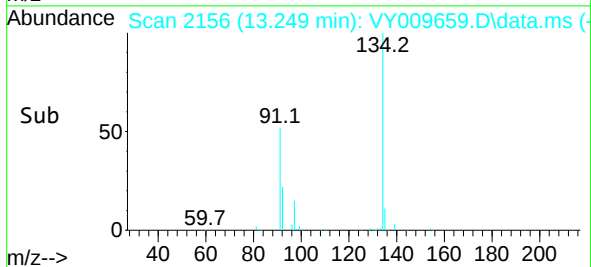
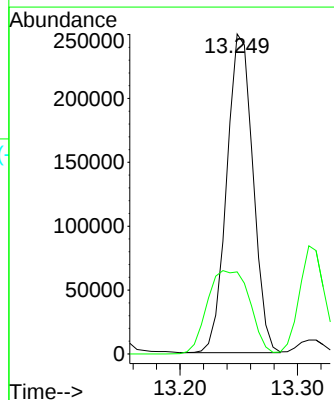
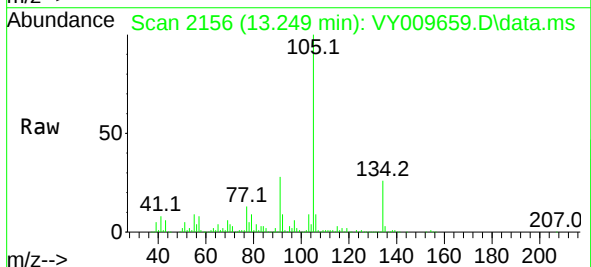
Instrument :
MSVOA_Y
ClientSampleId :
DL-3(5-5.5)

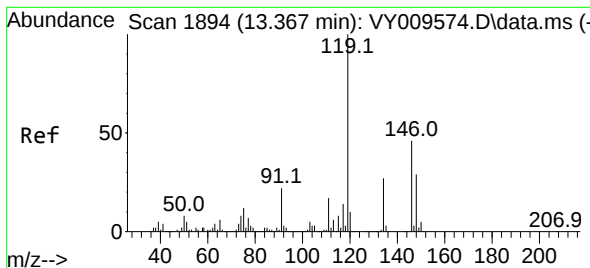
Tgt Ion:105 Resp:11381286
Ion Ratio Lower Upper
105 100
120 53.0 22.3 66.9



#85
sec-Butylbenzene
Concen: 38.226 ug/l
RT: 13.249 min Scan# 2156
Delta R.T. -0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Tgt Ion:105 Resp: 387133
Ion Ratio Lower Upper
105 100
134 42.3 10.2 30.4#





#86

p-Isopropyltoluene

Concen: 23.482 ug/l

RT: 13.371 min Scan# 2176

Delta R.T. 0.003 min

Lab File: VY009659.D

Acq: 22 Jul 2022 15:00

Instrument :

MSVOA_Y

ClientSampleId :

DL-3(5-5.5)

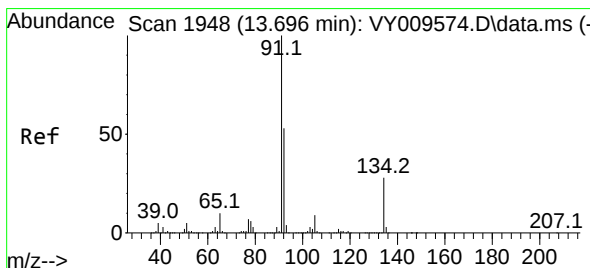
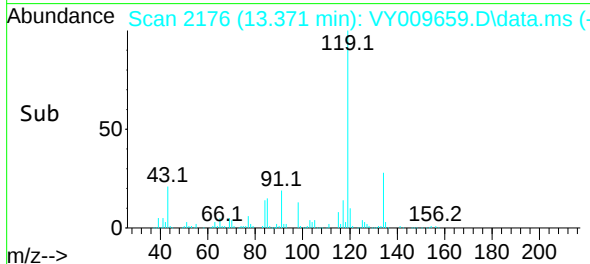
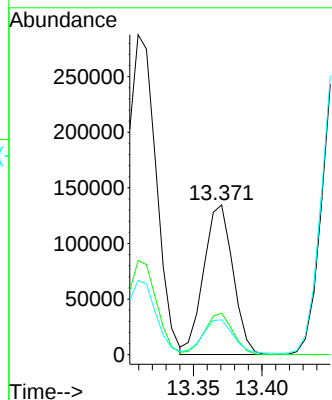
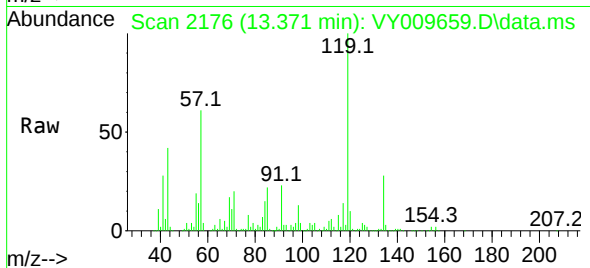
Tgt Ion:119 Resp: 199854

Ion Ratio Lower Upper

119 100

134 27.0 13.2 39.5

91 23.0 12.4 37.2



#89

n-Butylbenzene

Concen: 94.699 ug/l

RT: 13.694 min Scan# 2229

Delta R.T. -0.003 min

Lab File: VY009659.D

Acq: 22 Jul 2022 15:00

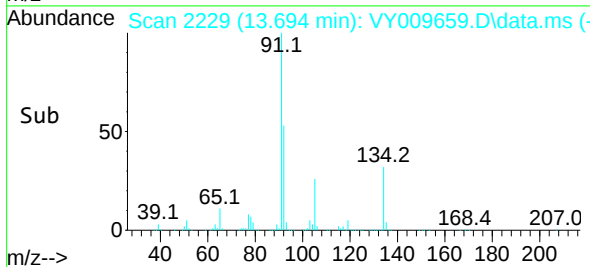
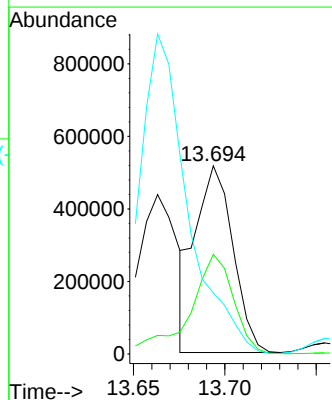
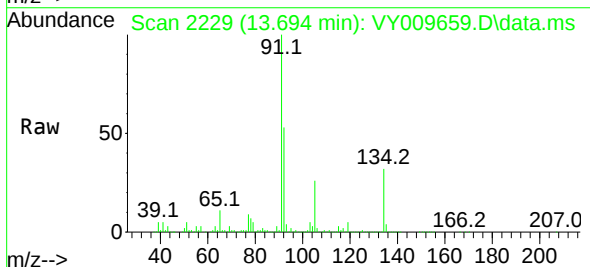
Tgt Ion: 91 Resp: 736099

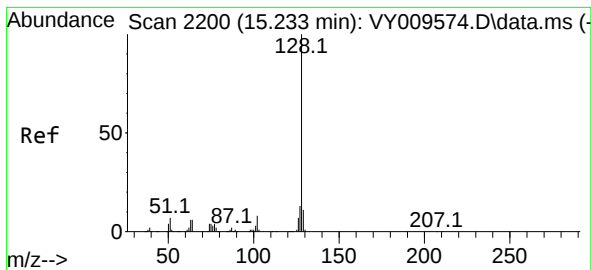
Ion Ratio Lower Upper

91 100

92 61.9 26.3 78.9

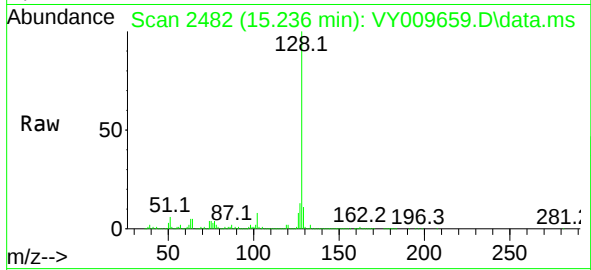
134 0.0 13.0 38.9#





#95
Naphthalene
Concen: 521.835 ug/l
RT: 15.236 min Scan# 24
Delta R.T. 0.003 min
Lab File: VY009659.D
Acq: 22 Jul 2022 15:00

Instrument :
MSVOA_Y
ClientSampleId :
DL-3(5-5.5)



Tgt Ion:128 Resp: 2528460
Ion Ratio Lower Upper
128 100
127 13.1 11.0 16.4
129 11.0 8.4 12.6

