

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110623\
 Data File : VY016238.D
 Acq On : 06 Nov 2023 15:43
 Operator : SY/MD
 Sample : 05266-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 1203

Quant Time: Nov 06 23:58:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 01 03:33:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.795	168	109464	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	191154	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	186220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	89681	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	63292	61.791	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 123.580%	
35) Dibromofluoromethane	7.722	113	55125	48.372	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.740%	
50) Toluene-d8	10.185	98	228475	50.566	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.140%	
62) 4-Bromofluorobenzene	12.483	95	85040	55.041	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 110.080%	

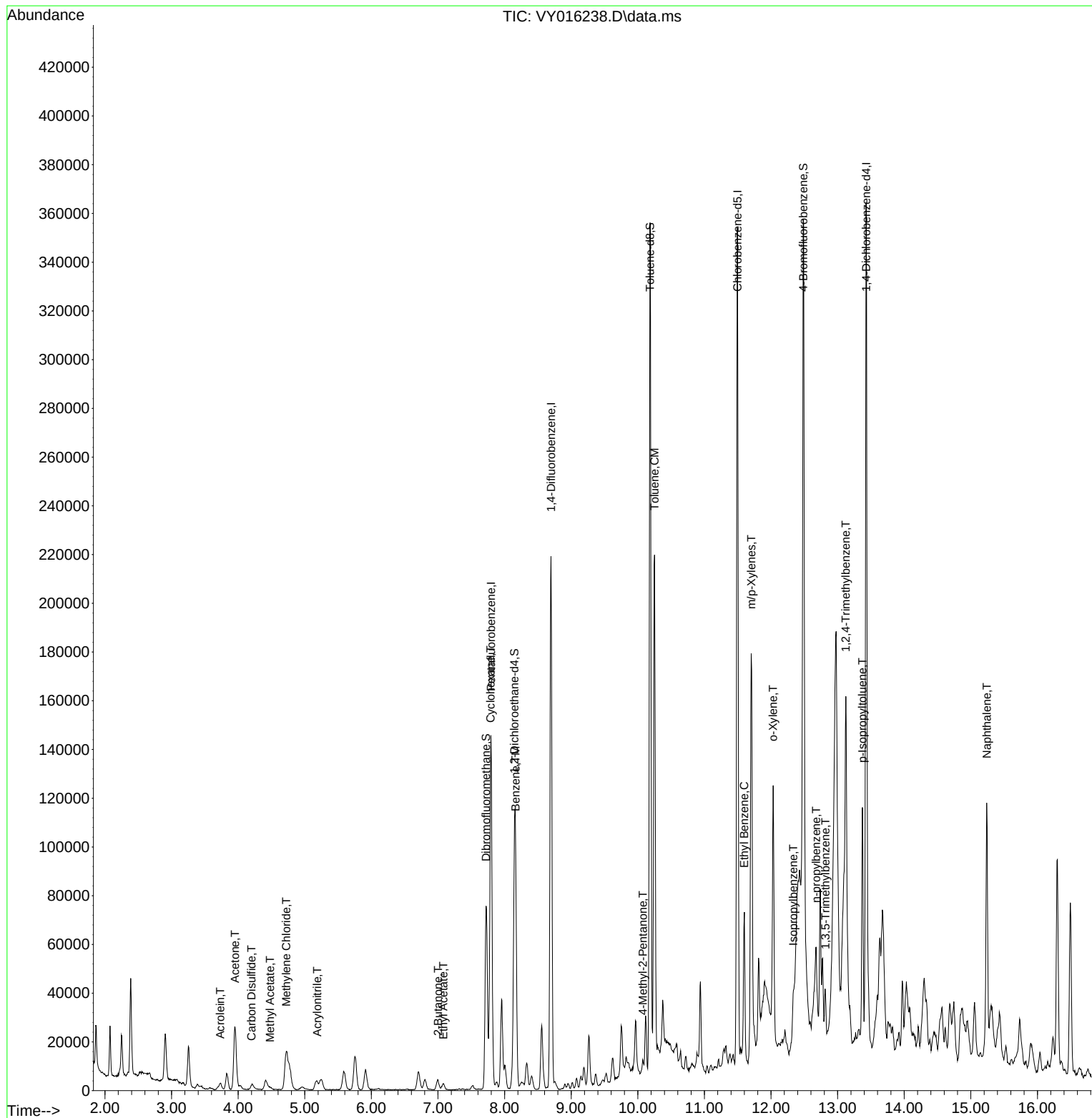
Target Compounds						Qvalue
13) Acrolein	3.729	56	3357	40.714	ug/l #	73
15) Acrylonitrile	5.186	53	3839	17.994	ug/l	99
16) Acetone	3.954	43	45765	282.365	ug/l	97
17) Carbon Disulfide	4.198	76	2553	1.181	ug/l	97
18) Methyl Acetate	4.479	43	1291	1.567	ug/l #	72
20) Methylene Chloride	4.722	84	11381	8.390	ug/l #	81
25) 2-Butanone	7.003	43	6966	24.650	ug/l	99
31) Cyclohexane	7.789	56	4944	3.140	ug/l #	73
37) Ethyl Acetate	7.082	43	3109	4.242	ug/l #	95
40) Benzene	8.167	78	63464	13.434	ug/l	100
51) 4-Methyl-2-Pentanone	10.075	43	4036	5.579	ug/l	90
52) Toluene	10.252	92	90135	29.443	ug/l	93
67) Ethyl Benzene	11.599	91	44229	6.684	ug/l	99
68) m/p-Xylenes	11.703	106	52804	20.650	ug/l	94
69) o-Xylene	12.032	106	20554	8.419	ug/l	97
73) Isopropylbenzene	12.337	105	8819	1.311	ug/l	97
78) n-propylbenzene	12.678	91	16761	2.107	ug/l	98
80) 1,3,5-Trimethylbenzene	12.819	105	6598	1.211	ug/l	88
84) 1,2,4-Trimethylbenzene	13.123	105	42695	7.917	ug/l	99
86) p-Isopropyltoluene	13.373	119	54048	9.111	ug/l	97
95) Naphthalene	15.239	128	82457	26.420	ug/l	98

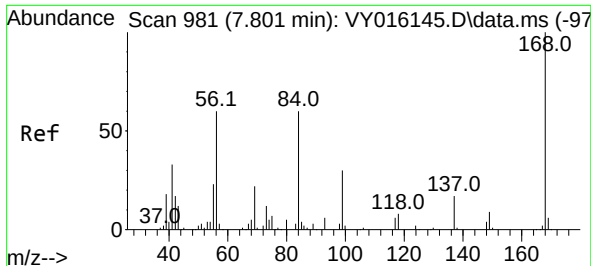
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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1203

Quant Time: Nov 06 23:58:38 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

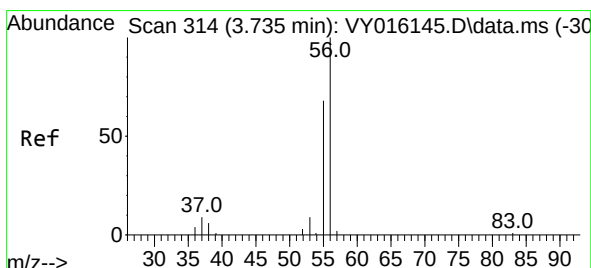
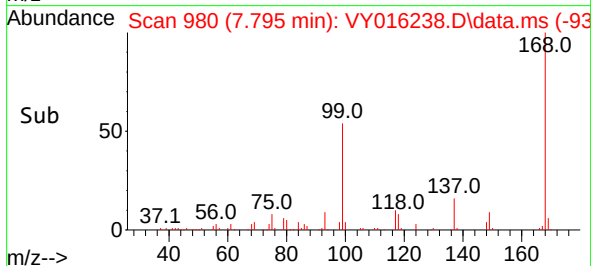
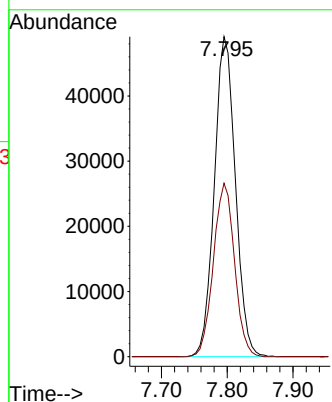
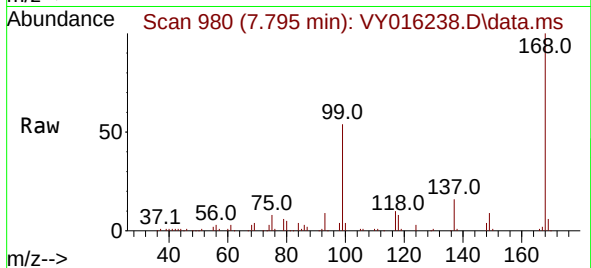




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

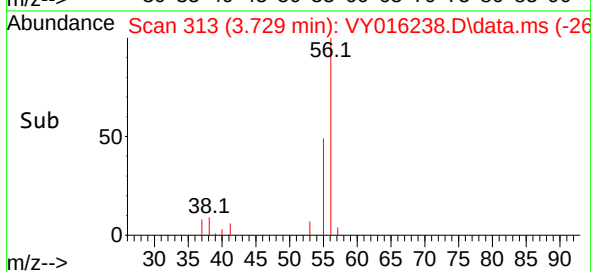
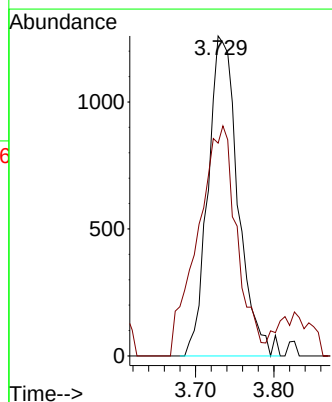
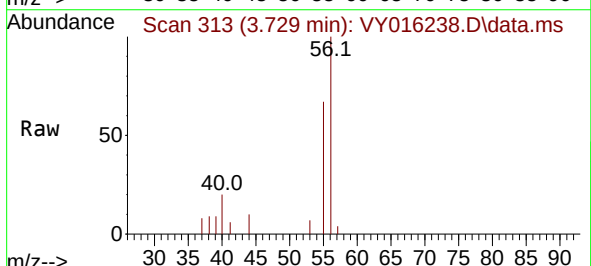
Instrument :
MSVOA_Y
ClientSampleId :
1203

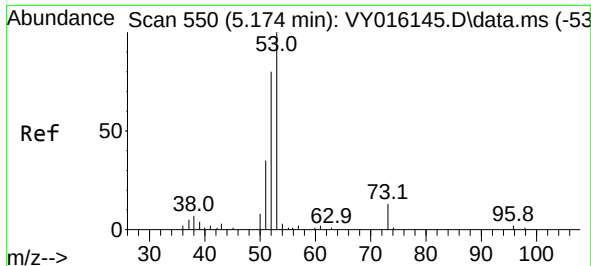
Tgt Ion:168 Resp: 109464
Ion Ratio Lower Upper
168 100
99 54.2 43.4 65.0



#13
Acrolein
Concen: 40.714 ug/l
RT: 3.729 min Scan# 313
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

Tgt Ion: 56 Resp: 3357
Ion Ratio Lower Upper
56 100
55 93.4 57.0 85.4#

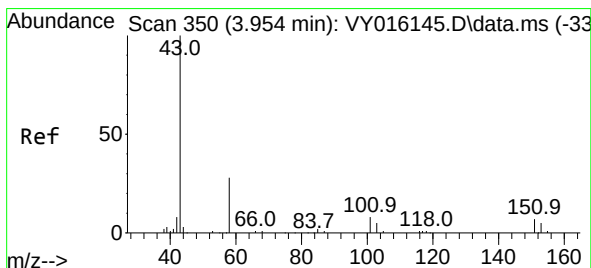
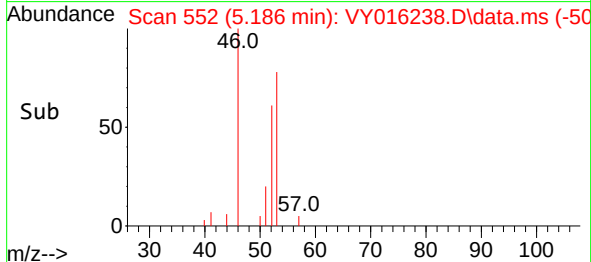
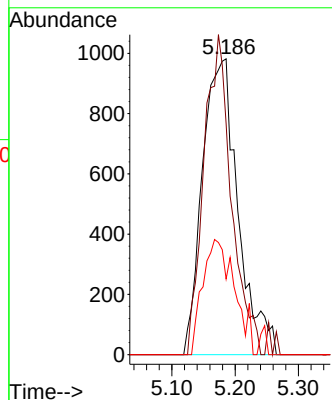
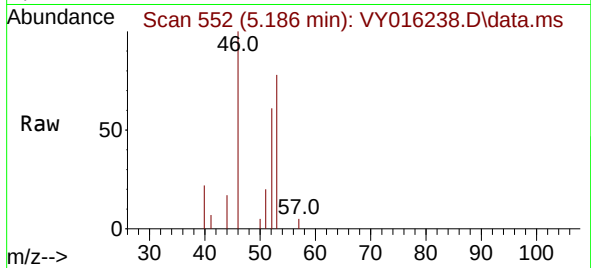




#15
Acrylonitrile
Concen: 17.994 ug/l
RT: 5.186 min Scan# 51
Delta R.T. 0.012 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

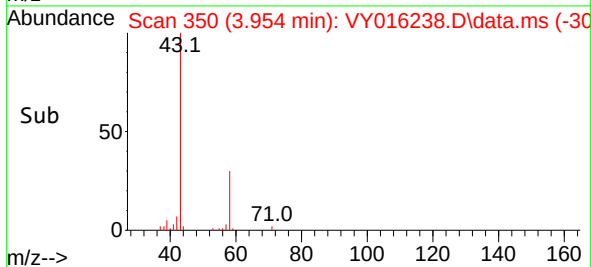
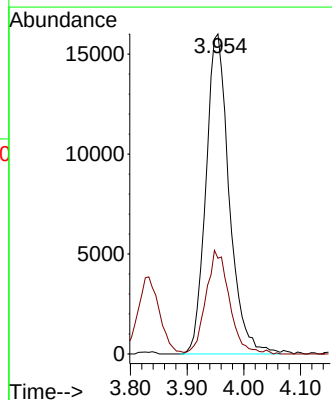
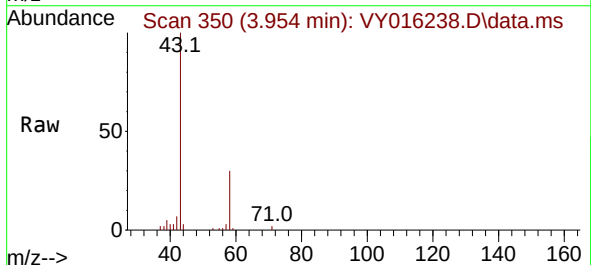
Instrument :
MSVOA_Y
ClientSampleId :
1203

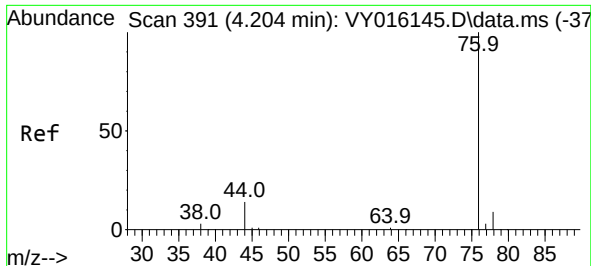
Tgt Ion: 53	Resp: 3839
Ion Ratio	Lower Upper
53	100
52	83.8 66.9 100.3
51	34.8 29.8 44.6



#16
Acetone
Concen: 282.365 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

Tgt Ion: 43	Resp: 45765
Ion Ratio	Lower Upper
43	100
58	29.9 22.7 34.1





#17

Carbon Disulfide

Concen: 1.181 ug/l

RT: 4.198 min Scan# 391

Delta R.T. -0.006 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

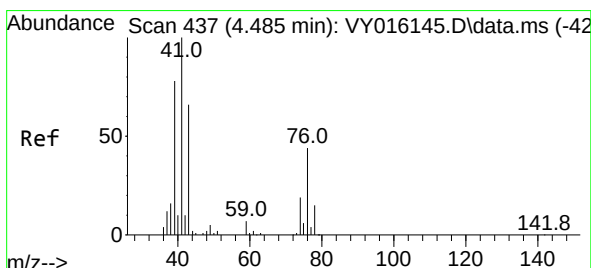
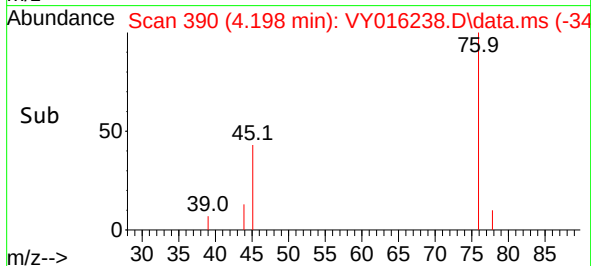
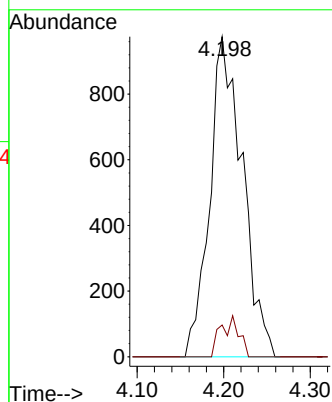
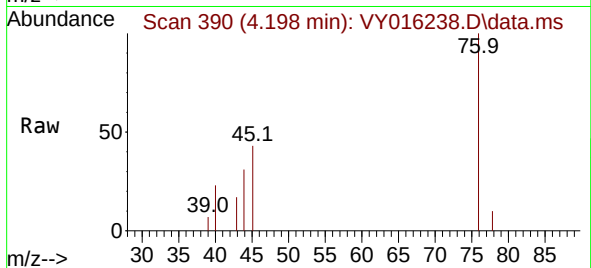
1203

Tgt Ion: 76 Resp: 2553

Ion Ratio Lower Upper

76 100

78 9.9 7.0 10.4



#18

Methyl Acetate

Concen: 1.567 ug/l

RT: 4.479 min Scan# 436

Delta R.T. -0.006 min

Lab File: VY016238.D

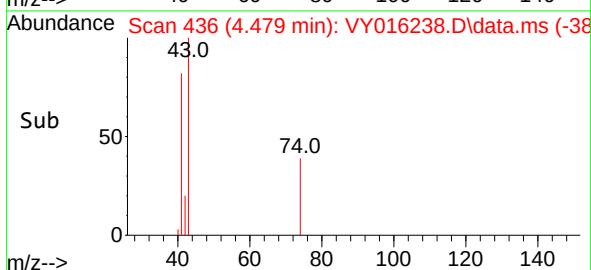
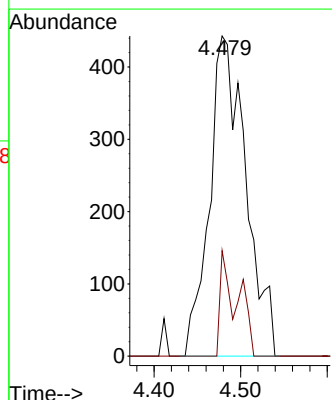
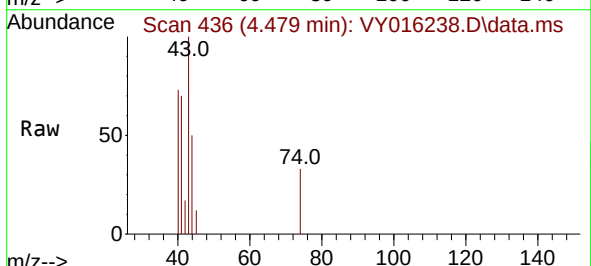
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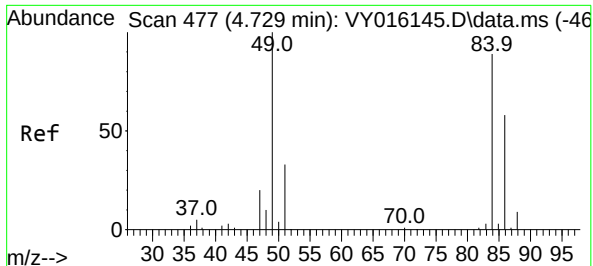
Tgt Ion: 43 Resp: 1291

Ion Ratio Lower Upper

43 100

74 8.4 17.4 26.0#





#20

Methylene Chloride

Concen: 8.390 ug/l

RT: 4.722 min Scan# 41

Delta R.T. -0.007 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

1203

Tgt Ion: 84 Resp: 11381

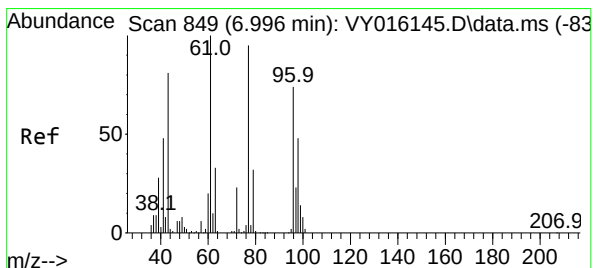
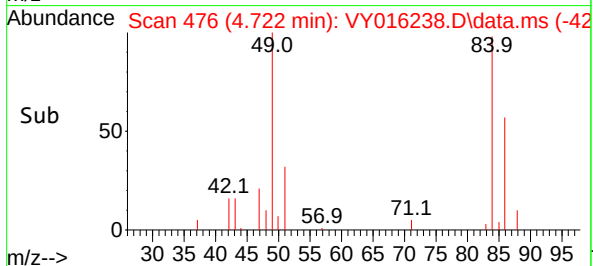
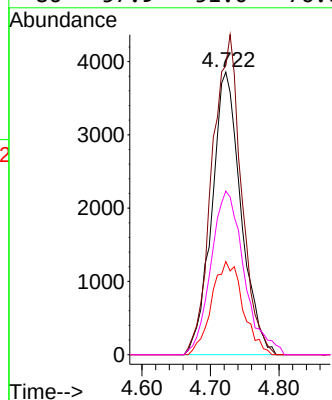
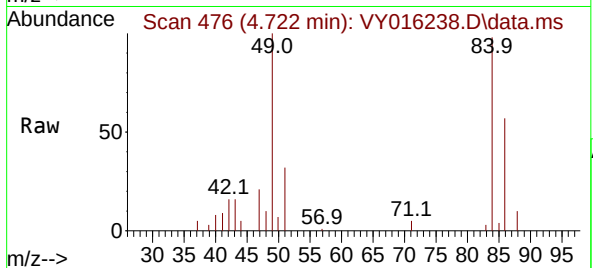
Ion Ratio Lower Upper

84 100

49 102.2 106.9 160.3#

51 33.0 33.2 49.8#

86 57.9 51.0 76.6



#25

2-Butanone

Concen: 24.650 ug/l

RT: 7.003 min Scan# 850

Delta R.T. 0.006 min

Lab File: VY016238.D

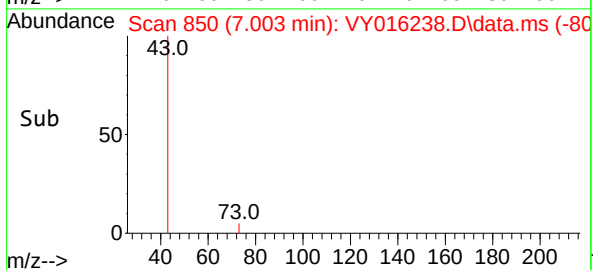
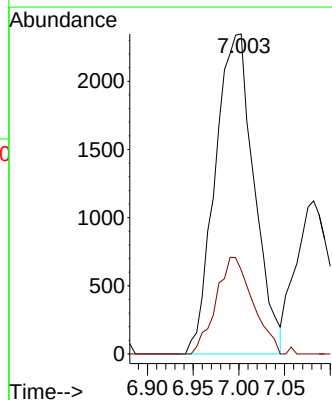
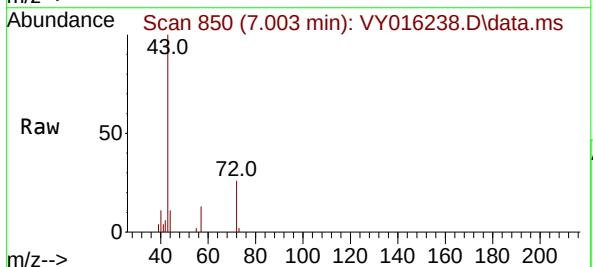
Acq: 06 Nov 2023 15:43

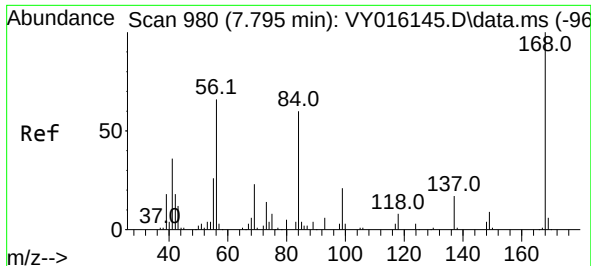
Tgt Ion: 43 Resp: 6966

Ion Ratio Lower Upper

43 100

72 26.3 20.5 30.7

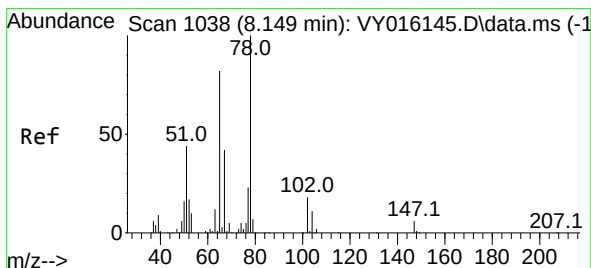
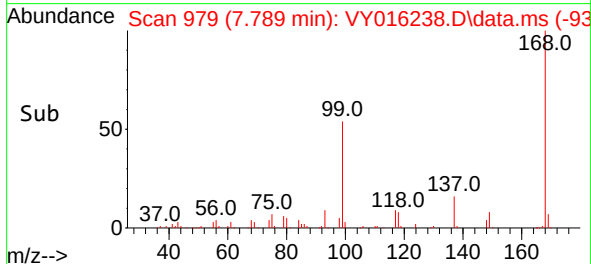
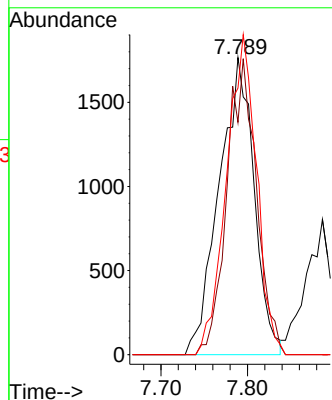
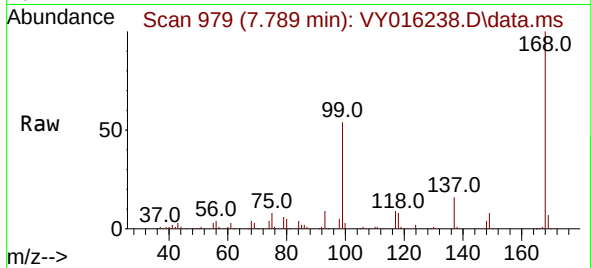




#31
Cyclohexane
Concen: 3.140 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

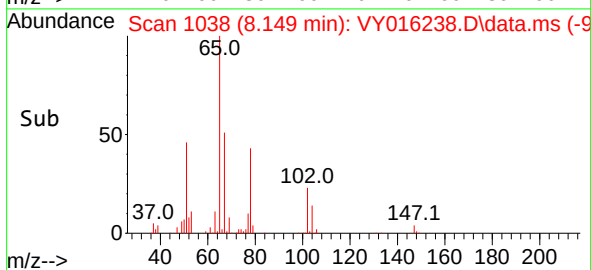
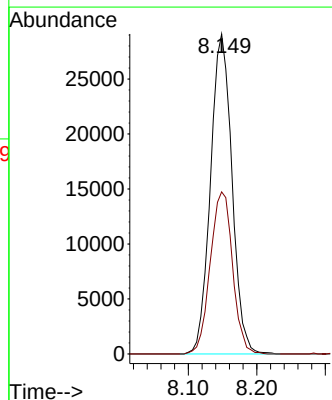
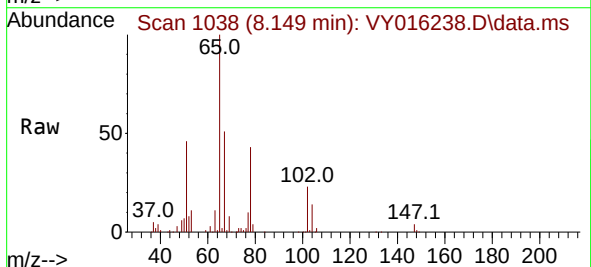
Instrument :
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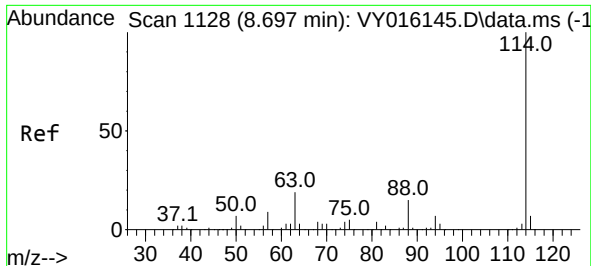
Tgt Ion: 56 Resp: 4944
Ion Ratio Lower Upper
56 100
69 78.2 27.8 41.6#
84 89.7 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 61.791 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

Tgt Ion: 65 Resp: 63292
Ion Ratio Lower Upper
65 100
67 52.6 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

1203

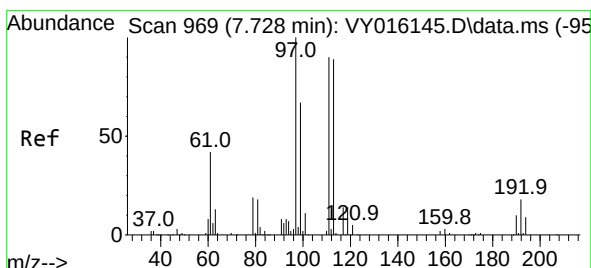
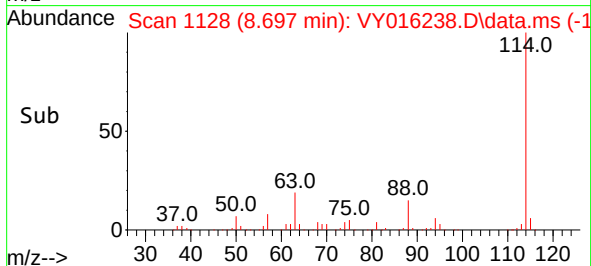
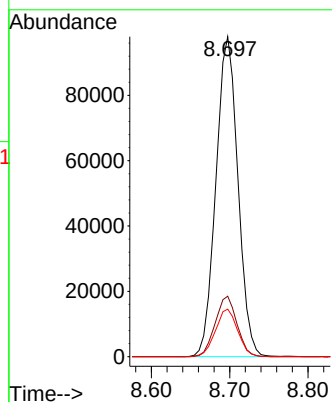
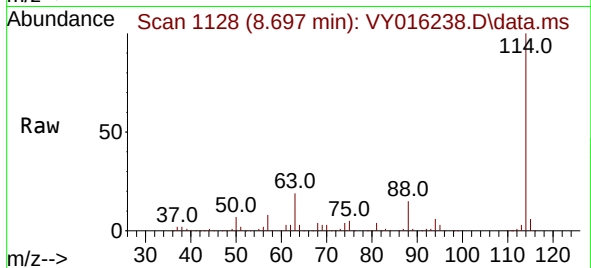
Tgt Ion:114 Resp: 191154

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

88 14.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.372 ug/l

RT: 7.722 min Scan# 968

Delta R.T. -0.006 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

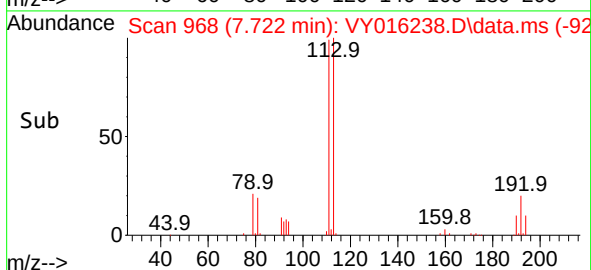
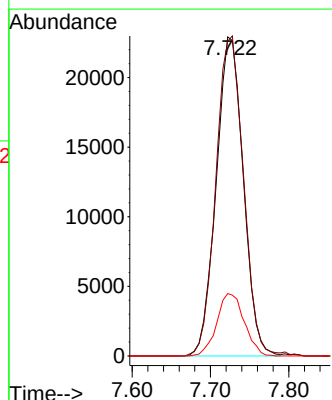
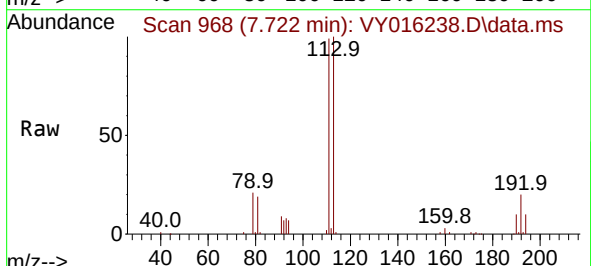
Tgt Ion:113 Resp: 55125

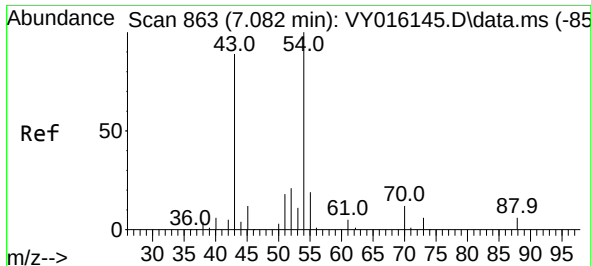
Ion Ratio Lower Upper

113 100

111 102.0 81.3 121.9

192 19.8 16.9 25.3





#37

Ethyl Acetate

Concen: 4.242 ug/l

RT: 7.082 min Scan# 80

Delta R.T. 0.000 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

1203

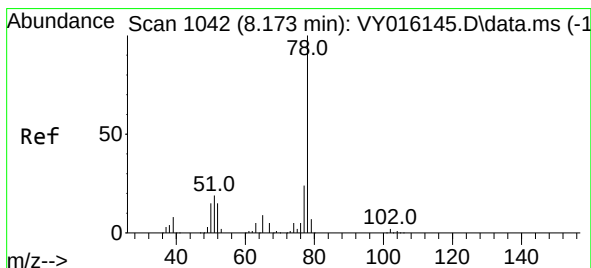
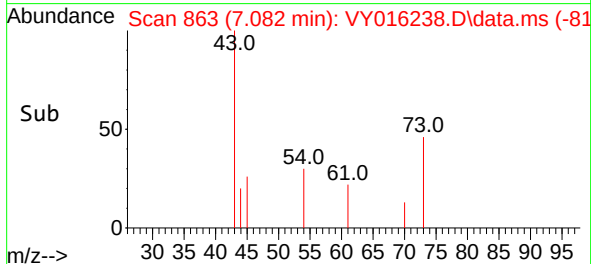
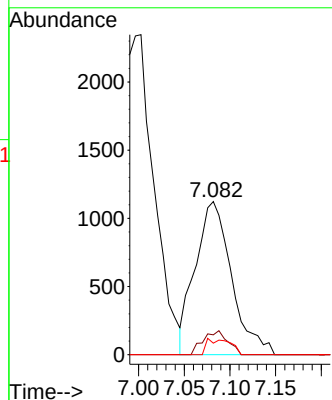
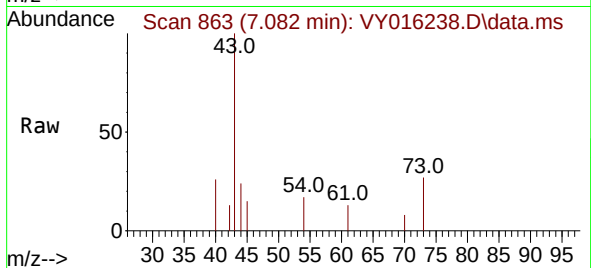
Tgt Ion: 43 Resp: 3109

Ion Ratio Lower Upper

43 100

61 10.6 10.1 15.1

70 6.7 7.1 10.7#



#40

Benzene

Concen: 13.434 ug/l

RT: 8.167 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VY016238.D

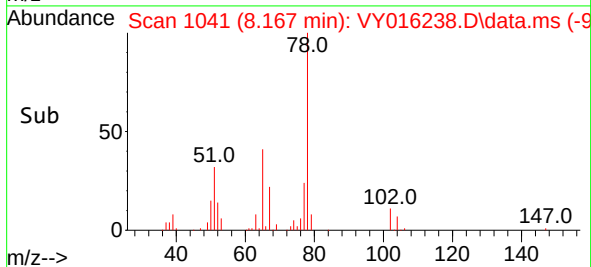
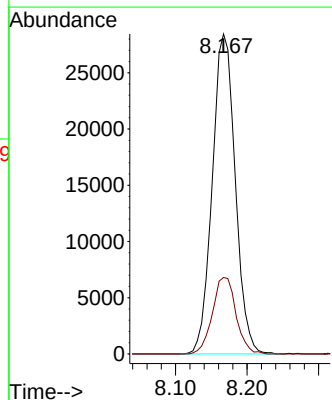
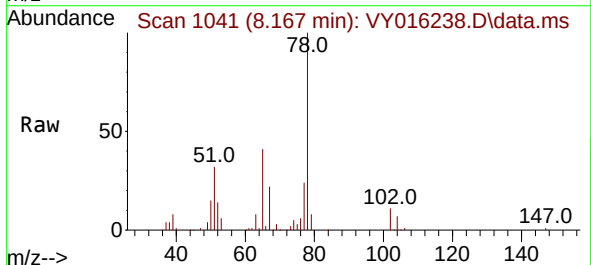
Acq: 06 Nov 2023 15:43

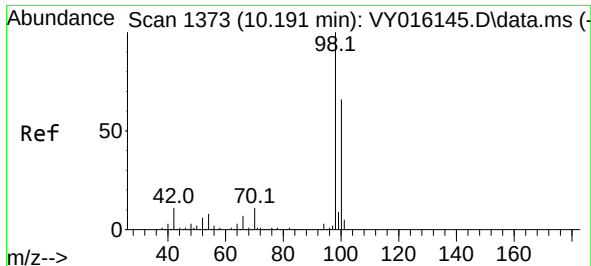
Tgt Ion: 78 Resp: 63464

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.6

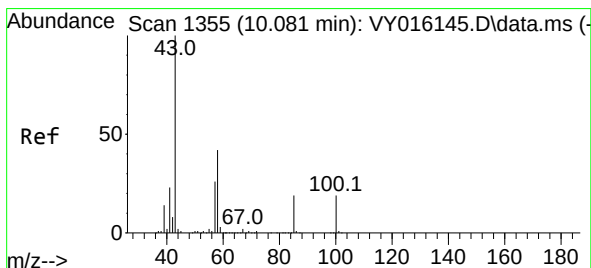
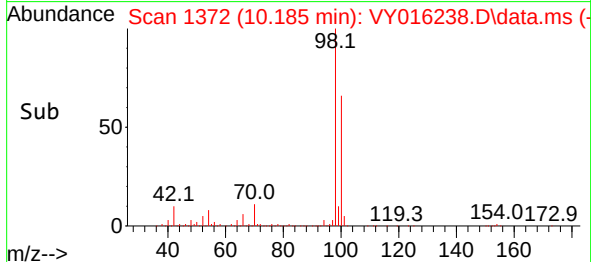
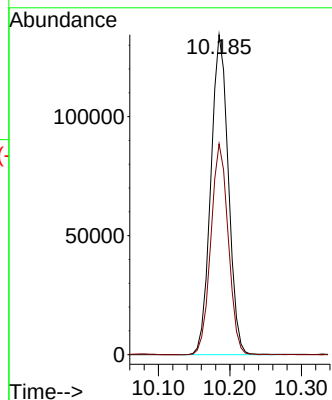
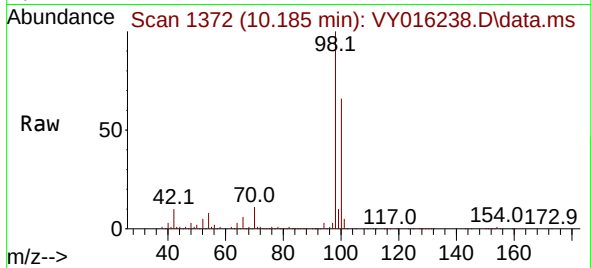




#50
Toluene-d8
Concen: 50.566 ug/l
RT: 10.185 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

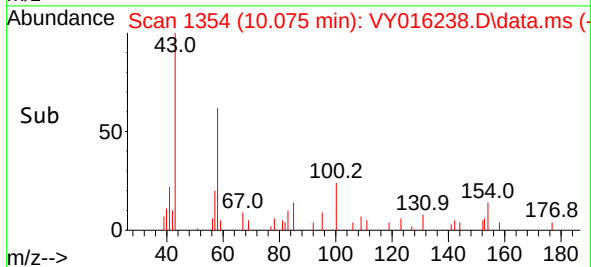
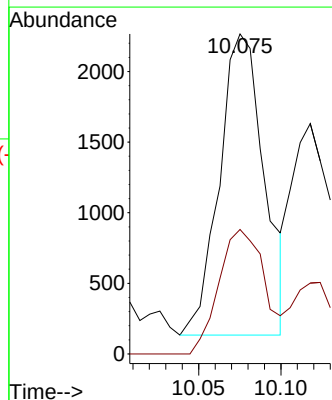
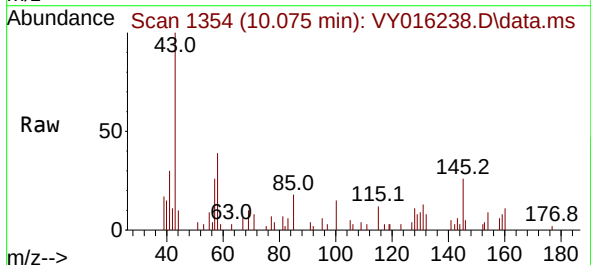
Instrument :
MSVOA_Y
ClientSampleId :
1203

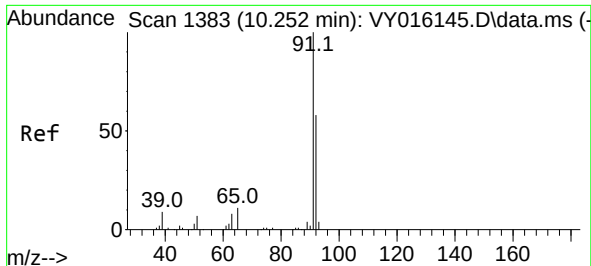
Tgt Ion: 98 Resp: 228475
Ion Ratio Lower Upper
98 100
100 65.4 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 5.579 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

Tgt Ion: 43 Resp: 4036
Ion Ratio Lower Upper
43 100
58 42.4 29.0 43.6

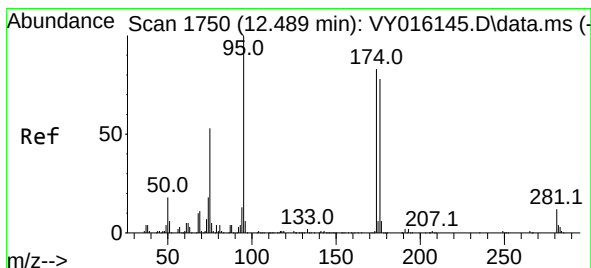
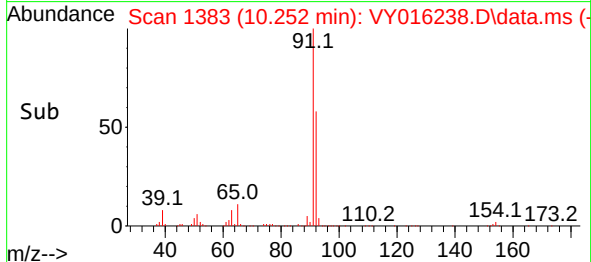
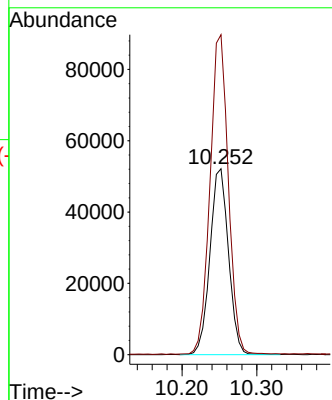
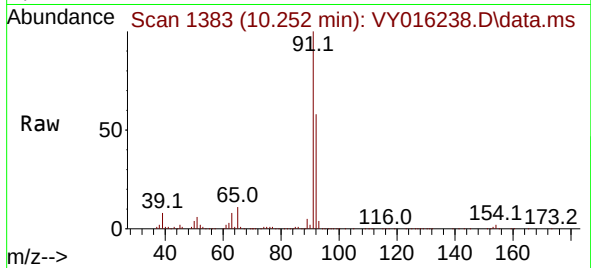




#52
Toluene
Concen: 29.443 ug/l
RT: 10.252 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

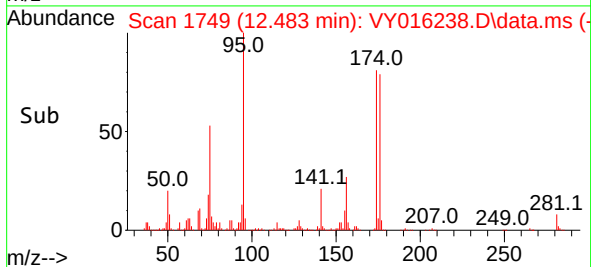
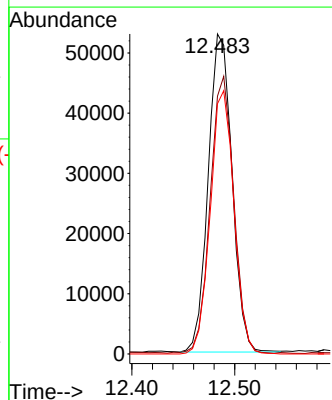
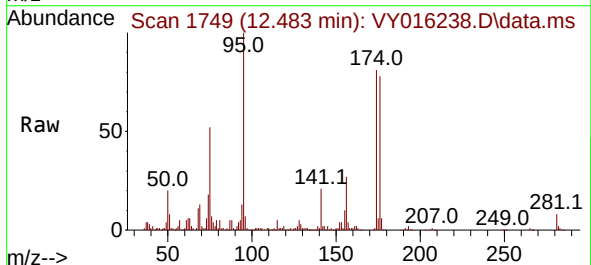
Instrument :
MSVOA_Y
ClientSampleId :
1203

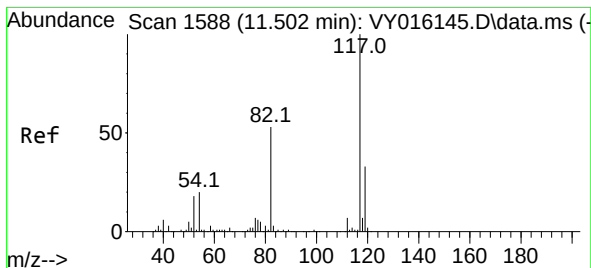
Tgt Ion: 92 Resp: 90135
Ion Ratio Lower Upper
92 100
91 169.8 143.8 215.6



#62
4-Bromofluorobenzene
Concen: 55.041 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

Tgt Ion: 95 Resp: 85040
Ion Ratio Lower Upper
95 100
174 86.2 0.0 178.2
176 82.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

1203

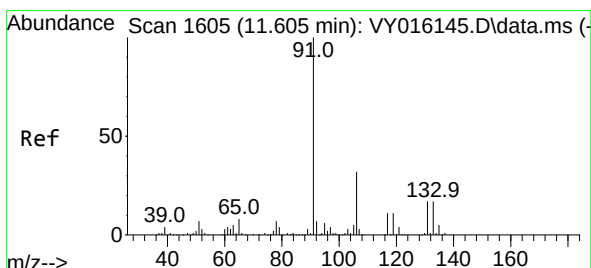
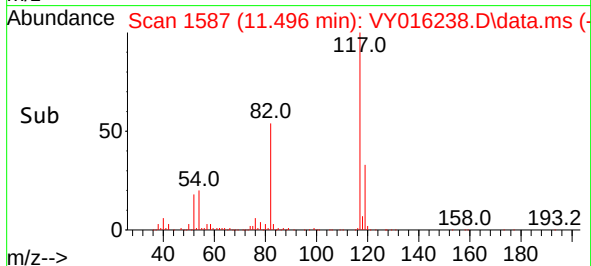
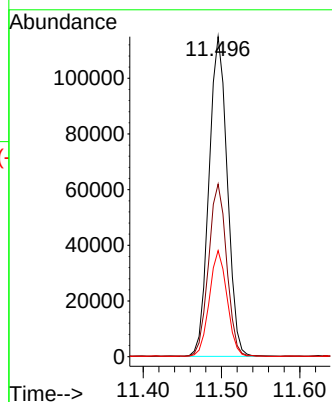
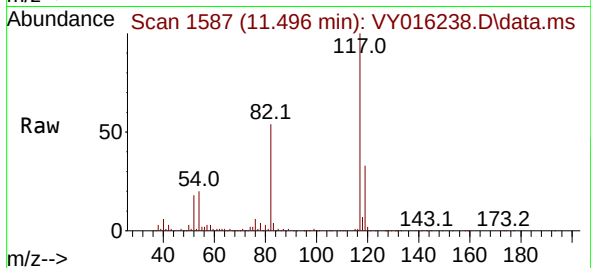
Tgt Ion:117 Resp: 186220

Ion Ratio Lower Upper

117 100

82 53.8 43.4 65.0

119 33.0 26.3 39.5



#67

Ethyl Benzene

Concen: 6.684 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. -0.006 min

Lab File: VY016238.D

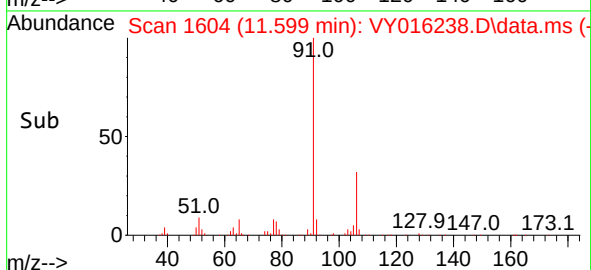
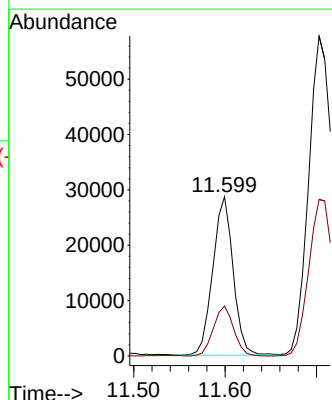
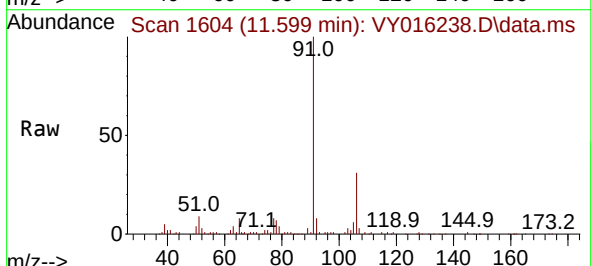
Acq: 06 Nov 2023 15:43

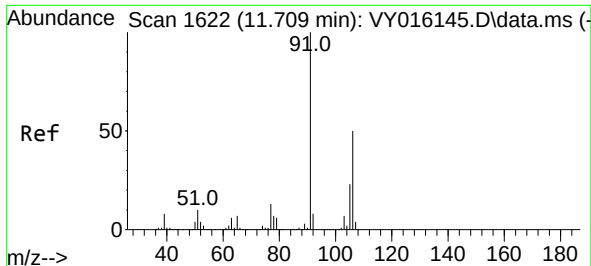
Tgt Ion: 91 Resp: 44229

Ion Ratio Lower Upper

91 100

106 31.3 24.6 36.8

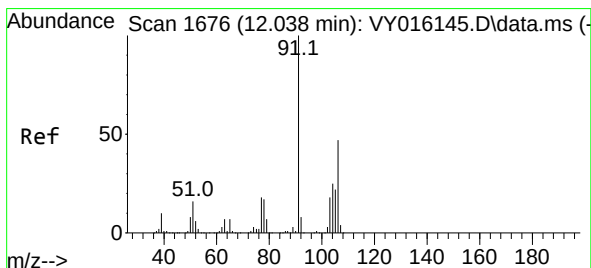
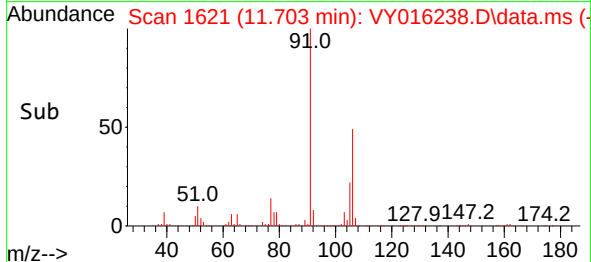
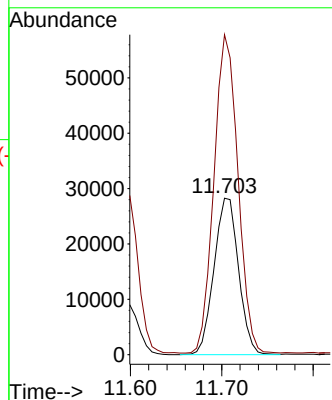
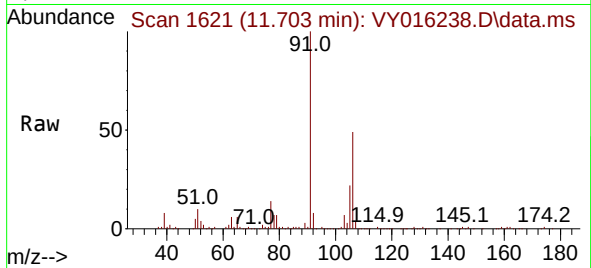




#68
m/p-Xylenes
Concen: 20.650 ug/l
RT: 11.703 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

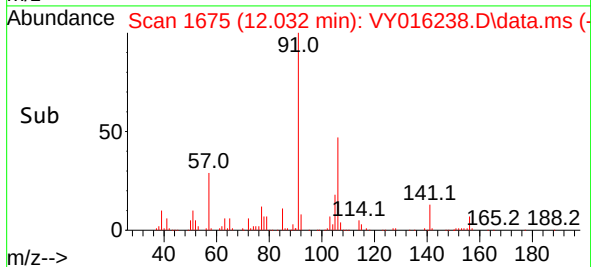
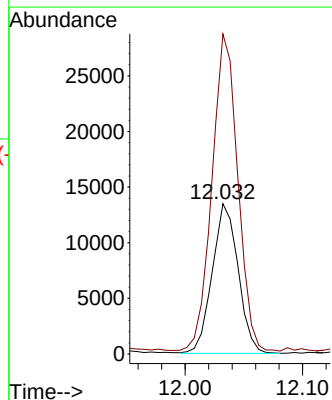
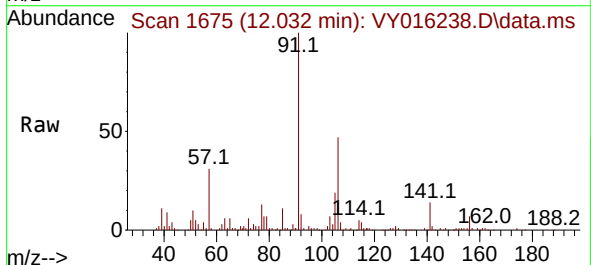
Instrument :
MSVOA_Y
ClientSampleId :
1203

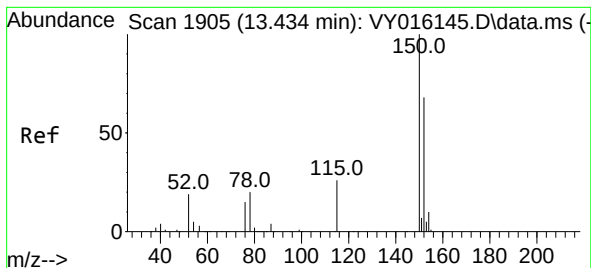
Tgt Ion:106 Resp: 52804
Ion Ratio Lower Upper
106 100
91 198.5 166.1 249.1



#69
o-Xylene
Concen: 8.419 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

Tgt Ion:106 Resp: 20554
Ion Ratio Lower Upper
106 100
91 211.3 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1905

Delta R.T. -0.006 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

1203

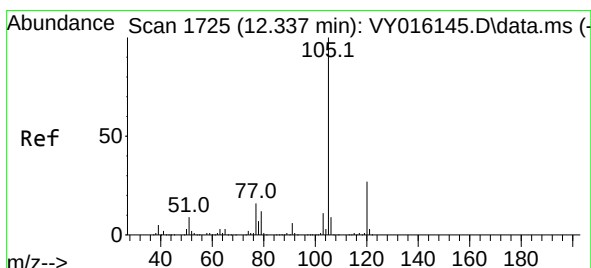
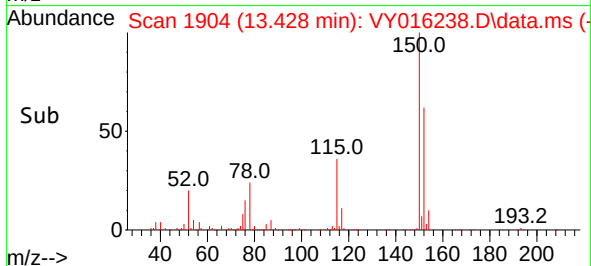
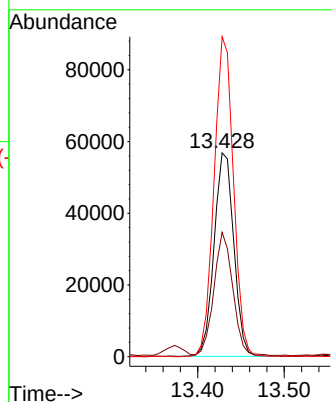
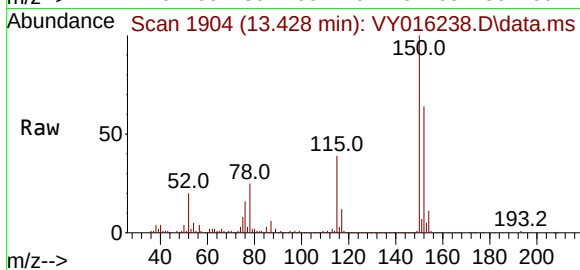
Tgt Ion:152 Resp: 89681

Ion Ratio Lower Upper

152 100

115 57.7 28.8 86.5

150 155.0 0.0 348.8



#73

Isopropylbenzene

Concen: 1.311 ug/l

RT: 12.337 min Scan# 1725

Delta R.T. 0.000 min

Lab File: VY016238.D

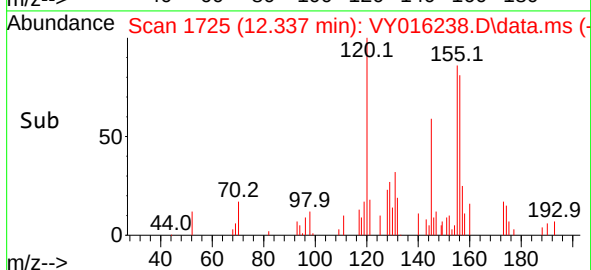
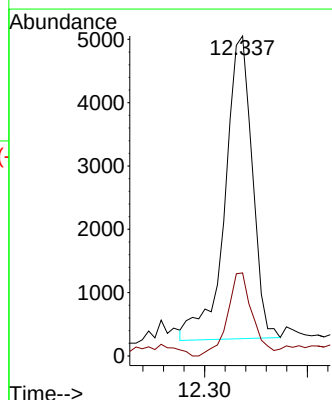
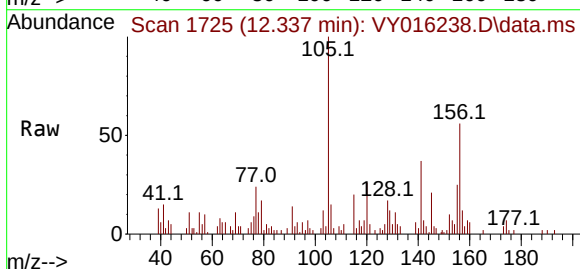
Acq: 06 Nov 2023 15:43

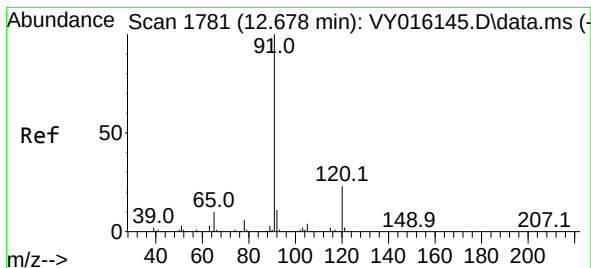
Tgt Ion:105 Resp: 8819

Ion Ratio Lower Upper

105 100

120 25.1 13.3 39.9





#78

n-propylbenzene

Concen: 2.107 ug/l

RT: 12.678 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

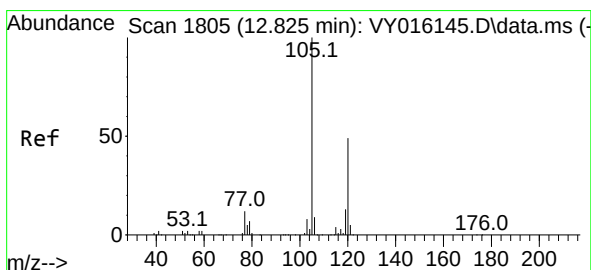
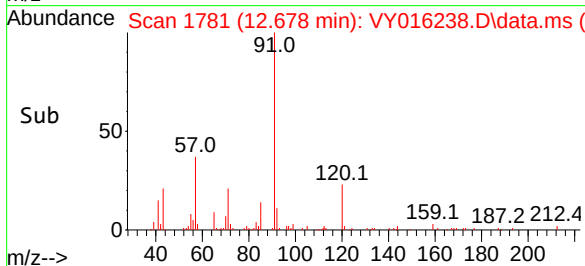
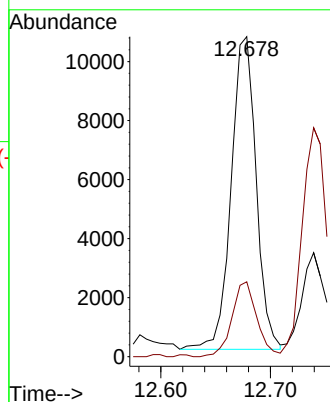
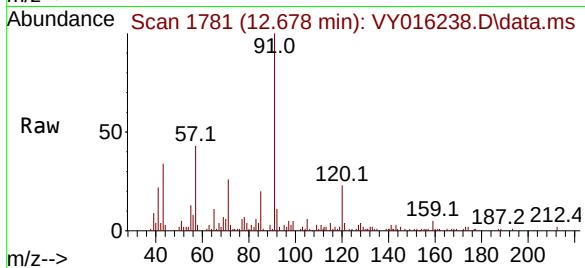
1203

Tgt Ion: 91 Resp: 16761

Ion Ratio Lower Upper

91 100

120 23.8 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 1.211 ug/l

RT: 12.819 min Scan# 1804

Delta R.T. -0.006 min

Lab File: VY016238.D

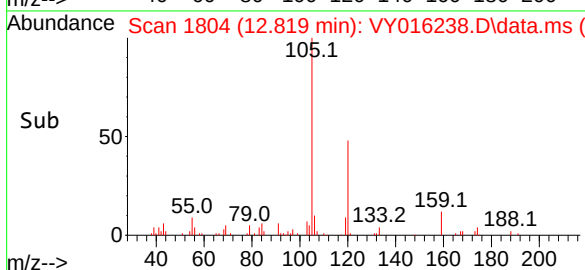
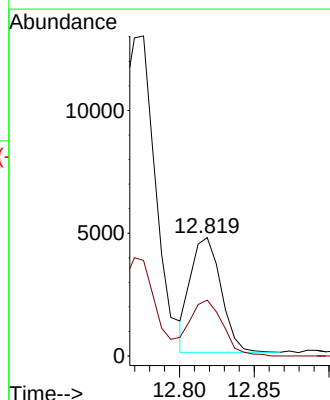
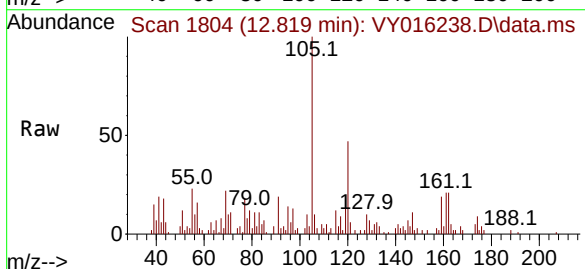
Acq: 06 Nov 2023 15:43

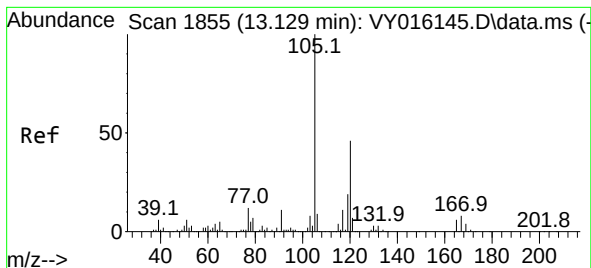
Tgt Ion: 105 Resp: 6598

Ion Ratio Lower Upper

105 100

120 55.7 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 7.917 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.006 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

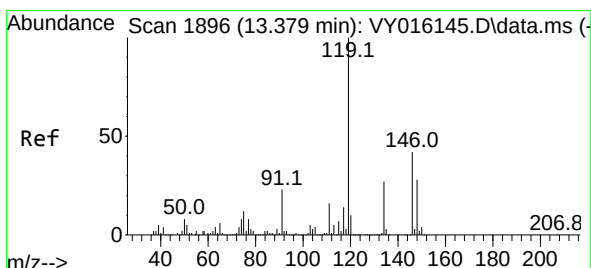
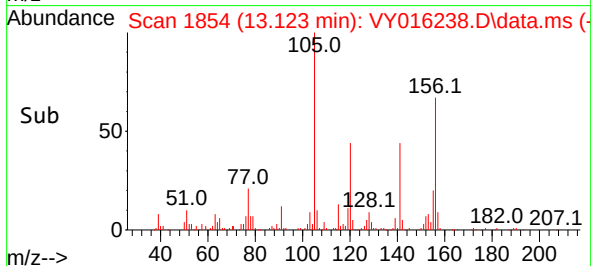
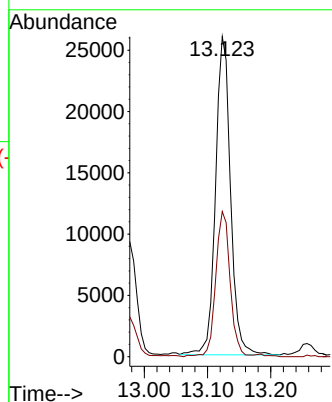
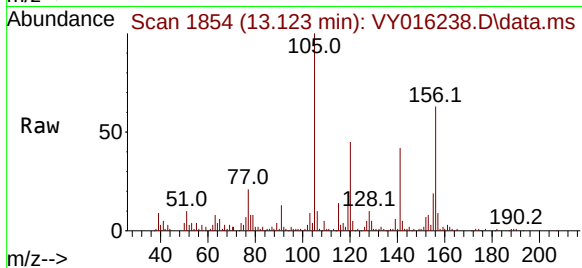
1203

Tgt Ion:105 Resp: 42695

Ion Ratio Lower Upper

105 100

120 43.9 22.2 66.6



#86

p-Isopropyltoluene

Concen: 9.111 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. -0.006 min

Lab File: VY016238.D

Acq: 06 Nov 2023 15:43

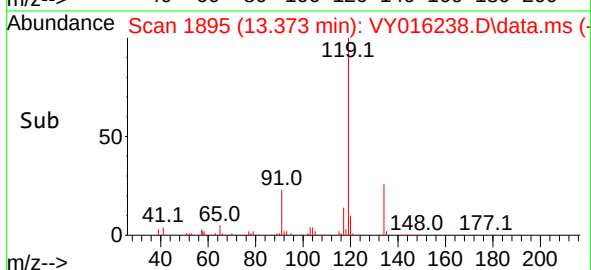
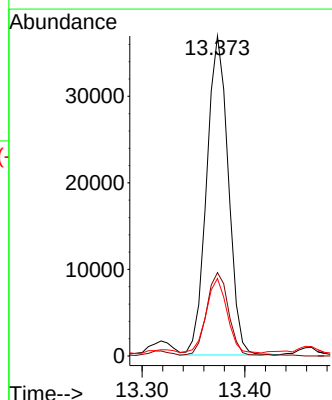
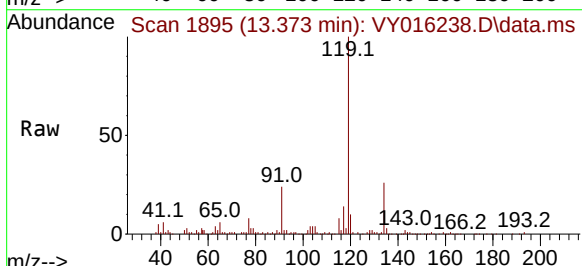
Tgt Ion:119 Resp: 54048

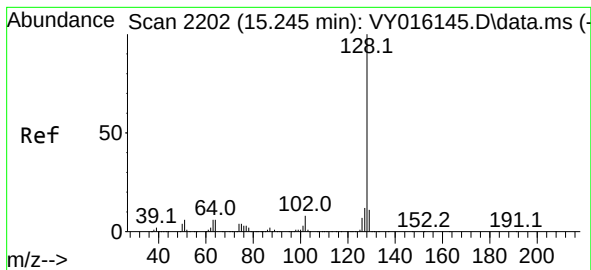
Ion Ratio Lower Upper

119 100

134 25.8 13.3 39.8

91 22.8 12.4 37.4





#95
Naphthalene
Concen: 26.420 ug/l
RT: 15.239 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY016238.D
Acq: 06 Nov 2023 15:43

Instrument :
MSVOA_Y
ClientSampleId :
1203

Tgt Ion:128 Resp: 82457
Ion Ratio Lower Upper
128 100
127 12.8 10.8 16.2
129 11.6 8.6 13.0

