

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091024\
 Data File : VY019492.D
 Acq On : 10 Sep 2024 16:57
 Operator : SY/MD
 Sample : P3914-01
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 904

Quant Time: Sep 11 07:16:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 09 16:00:30 2024
 Response via : Initial Calibration

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

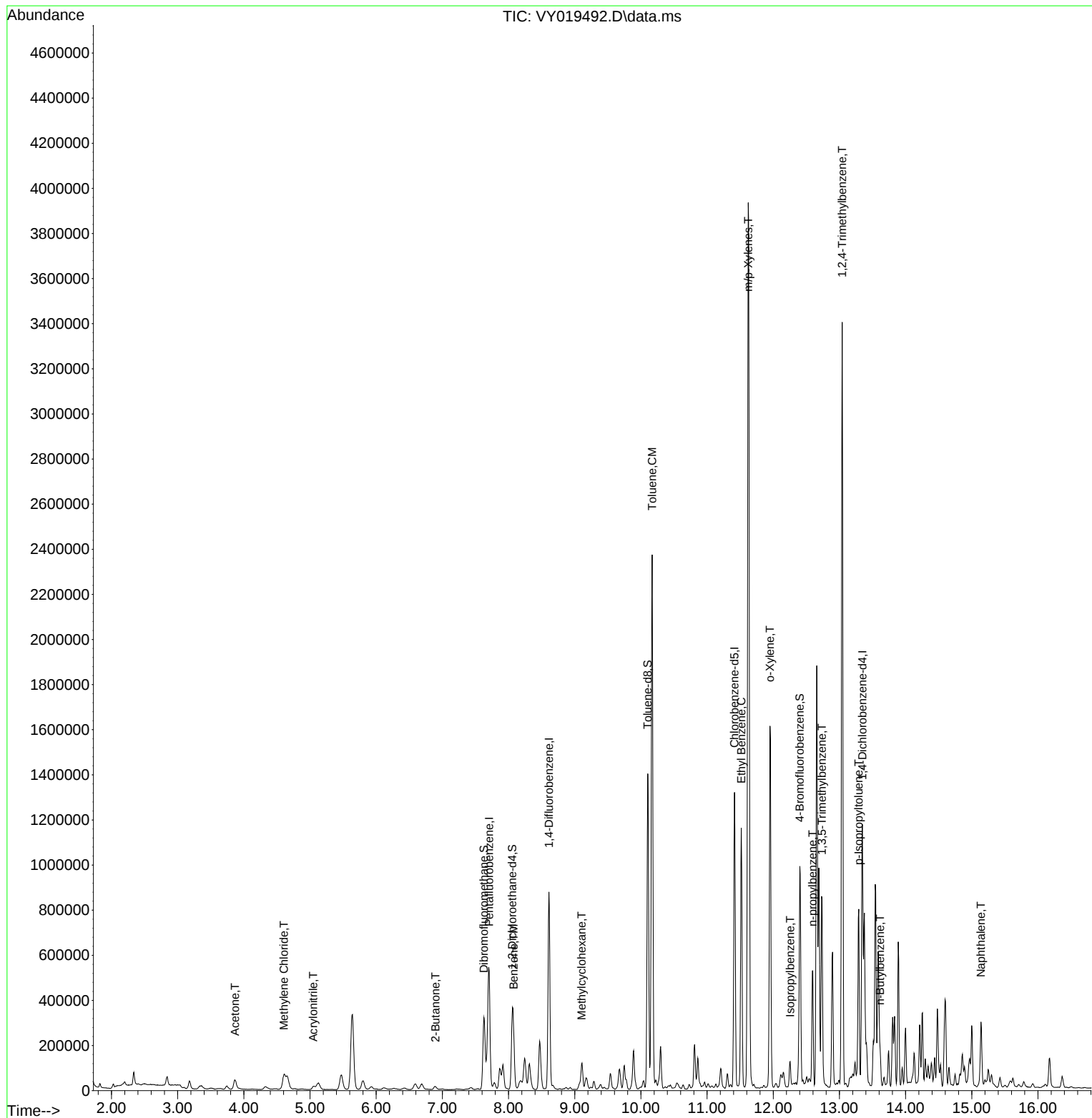
Internal Standards						
1) Pentafluorobenzene	7.707	168	373859	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	723830	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	661538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	276231	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	222397	64.242	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	128.480%
35) Dibromofluoromethane	7.628	113	228655	55.715	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	111.440%
50) Toluene-d8	10.103	98	865060	56.988	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	113.980%
62) 4-Bromofluorobenzene	12.401	95	305436	52.330	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	104.660%
Target Compounds						
						Qvalue
15) Acrylonitrile	5.049	53	20463	25.358	ug/l	95
16) Acetone	3.866	43	80576	97.699	ug/l	# 80
20) Methylene Chloride	4.604	84	40593	10.793	ug/l	94
25) 2-Butanone	6.896	43	22545	19.220	ug/l	89
39) Methylcyclohexane	9.103	83	35643	4.796	ug/l	# 89
40) Benzene	8.079	78	156365	9.091	ug/l	98
52) Toluene	10.170	92	959665	86.753	ug/l	98
67) Ethyl Benzene	11.517	91	766979	33.171	ug/l	98
68) m/p-Xylenes	11.621	106	1208041	138.175	ug/l	94
69) o-Xylene	11.950	106	411283	48.102	ug/l	93
73) Isopropylbenzene	12.255	105	70833	3.535	ug/l	100
78) n-propylbenzene	12.596	91	388826	16.370	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	374563	22.991	ug/l	96
84) 1,2,4-Trimethylbenzene	13.041	105	1732638	107.442	ug/l	98
86) p-Isopropyltoluene	13.291	119	419317	23.920	ug/l	97
89) n-Butylbenzene	13.615	91	77068	4.599	ug/l	# 75
95) Naphthalene	15.139	128	211936	22.578	ug/l	99

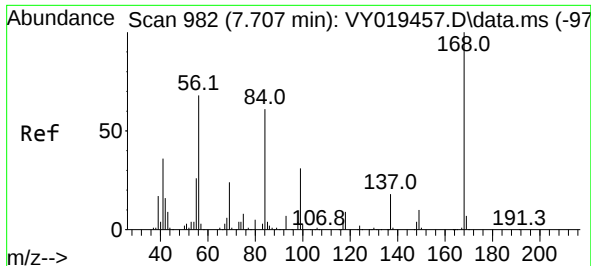
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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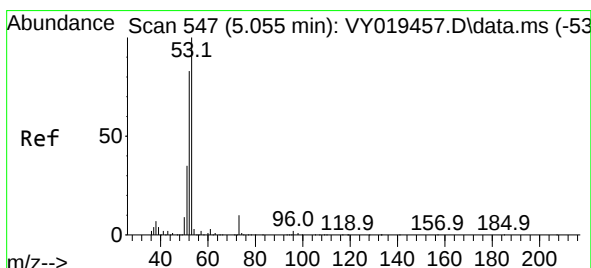
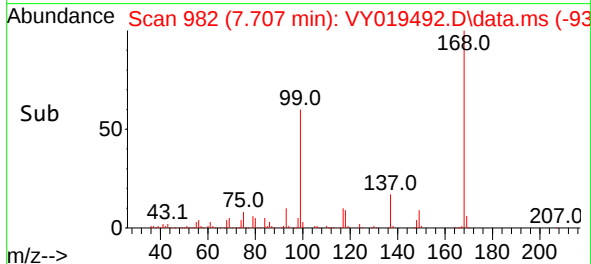
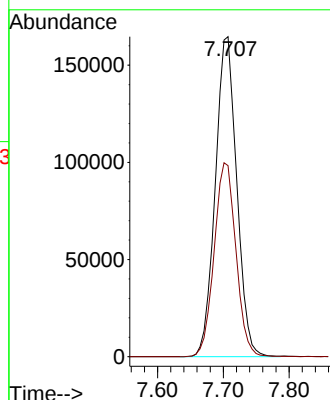
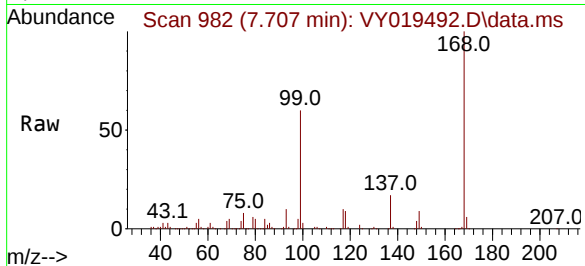




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 904
Delta R.T. 0.000 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

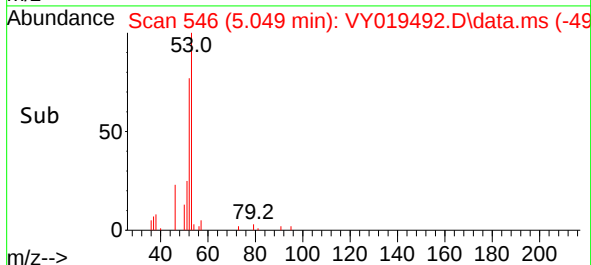
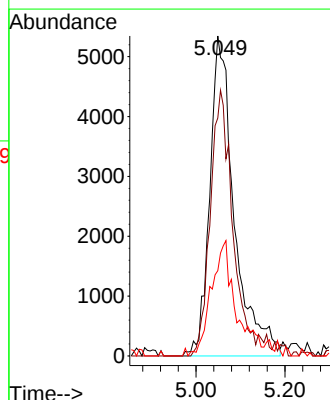
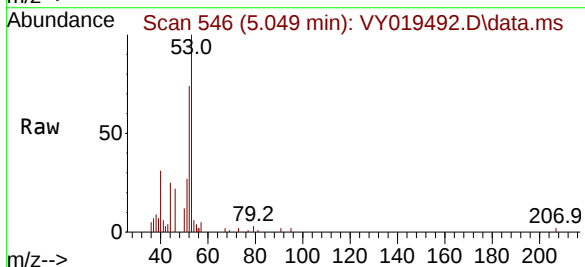
Instrument :
MSVOA_Y
ClientSampleId :
904

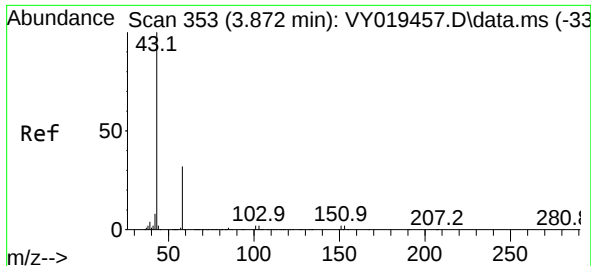
Tgt Ion:168 Resp: 373859
Ion Ratio Lower Upper
168 100
99 59.7 39.1 58.7#



#15
Acrylonitrile
Concen: 25.358 ug/l
RT: 5.049 min Scan# 546
Delta R.T. -0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

Tgt Ion: 53 Resp: 20463
Ion Ratio Lower Upper
53 100
52 75.0 64.7 97.1
51 36.0 28.4 42.6





#16

Acetone

Concen: 97.699 ug/l

RT: 3.866 min Scan# 31

Delta R.T. -0.006 min

Lab File: VY019492.D

Acq: 10 Sep 2024 16:57

Instrument :

MSVOA_Y

ClientSampleId :

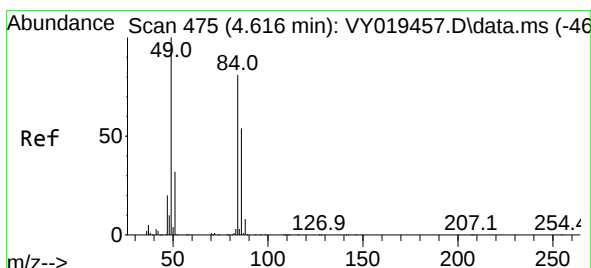
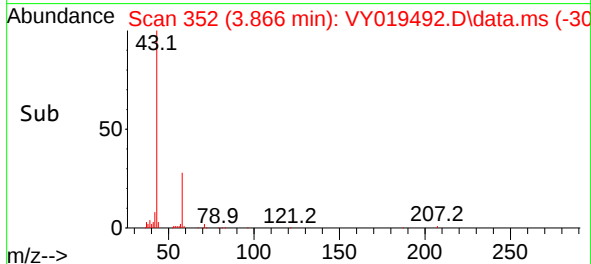
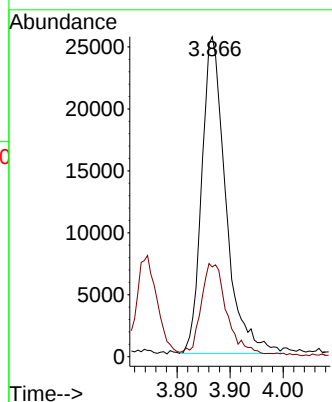
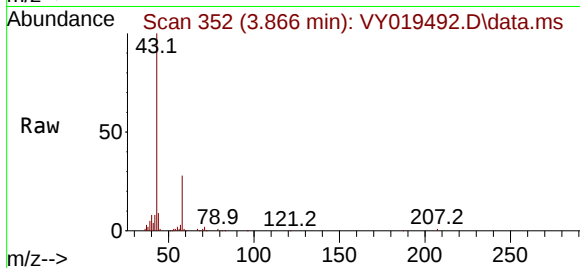
904

Tgt Ion: 43 Resp: 80576

Ion Ratio Lower Upper

43 100

58 27.4 31.7 47.5#



#20

Methylene Chloride

Concen: 10.793 ug/l

RT: 4.604 min Scan# 473

Delta R.T. -0.012 min

Lab File: VY019492.D

Acq: 10 Sep 2024 16:57

Tgt Ion: 84 Resp: 40593

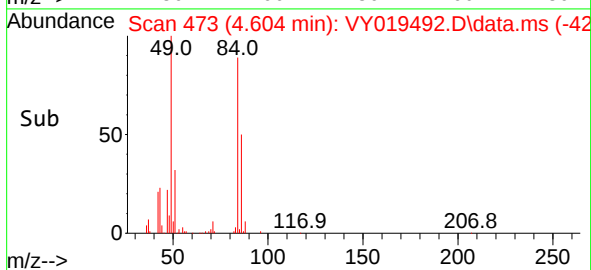
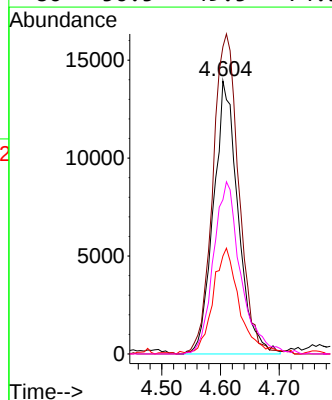
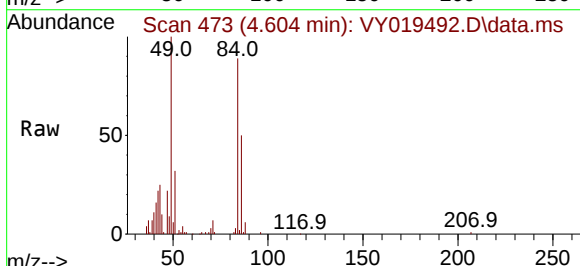
Ion Ratio Lower Upper

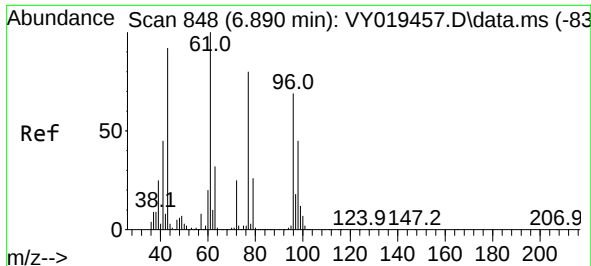
84 100

49 112.5 84.4 126.6

51 34.9 26.0 39.0

86 56.5 49.5 74.3

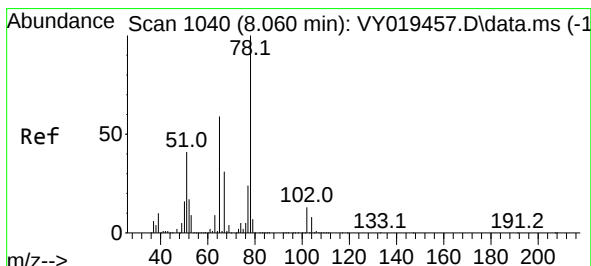
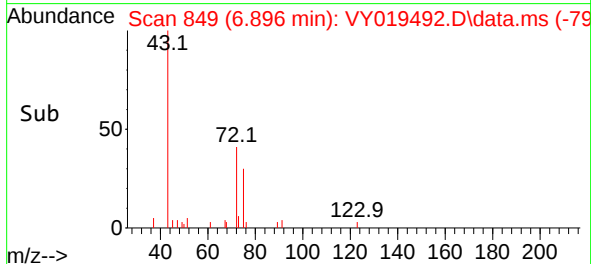
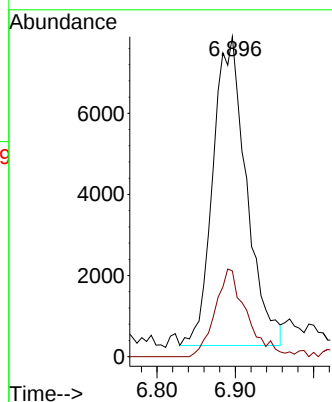
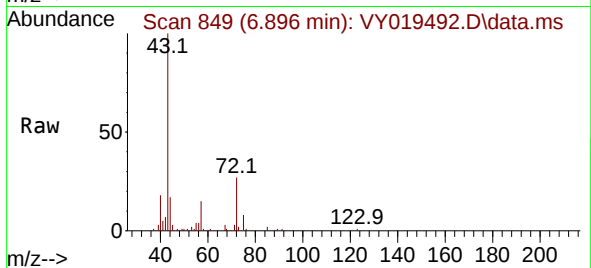




#25
2-Butanone
Concen: 19.220 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

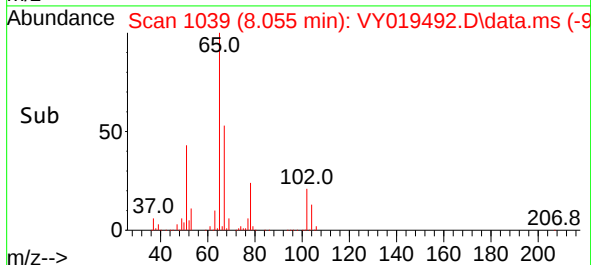
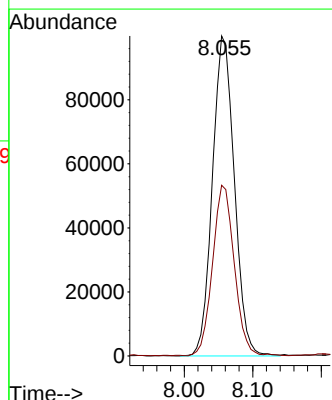
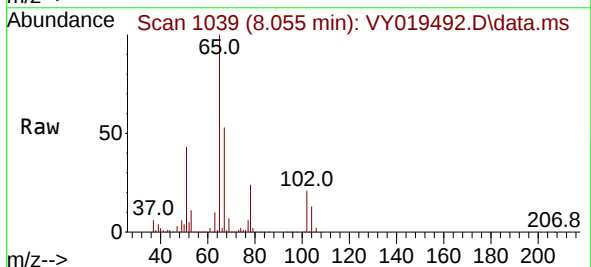
Instrument :
MSVOA_Y
ClientSampleId :
904

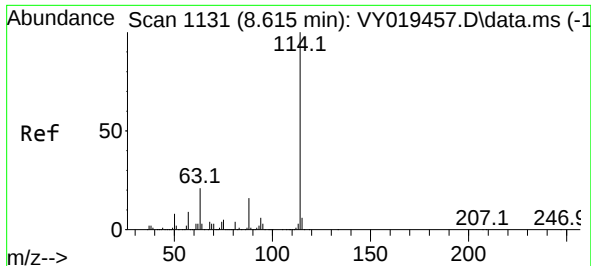
Tgt Ion: 43 Resp: 22545
Ion Ratio Lower Upper
43 100
72 27.8 27.3 40.9



#33
1,2-Dichloroethane-d4
Concen: 64.242 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

Tgt Ion: 65 Resp: 222397
Ion Ratio Lower Upper
65 100
67 52.6 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY019492.D

Acq: 10 Sep 2024 16:57

Instrument :

MSVOA_Y

ClientSampleId :

904

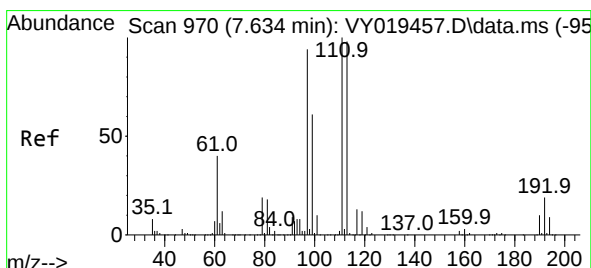
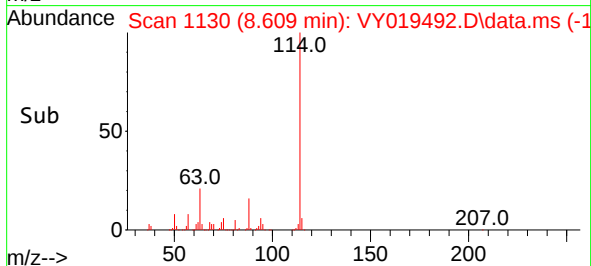
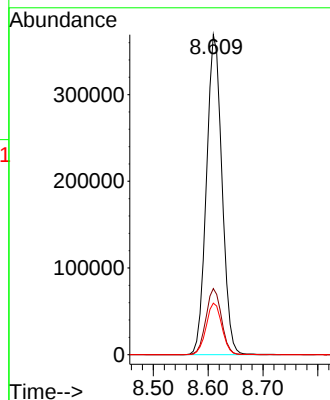
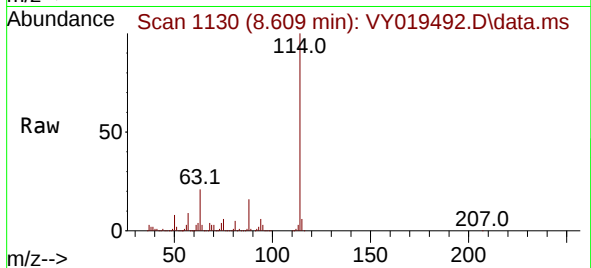
Tgt Ion:114 Resp: 723830

Ion Ratio Lower Upper

114 100

63 20.7 0.0 35.0

88 16.1 0.0 27.2



#35

Dibromofluoromethane

Concen: 55.715 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY019492.D

Acq: 10 Sep 2024 16:57

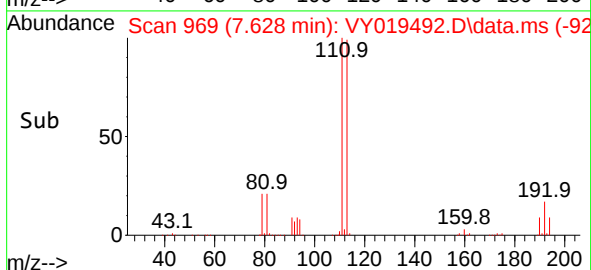
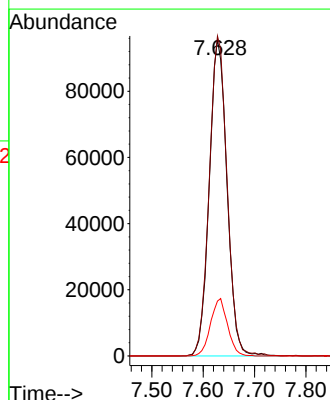
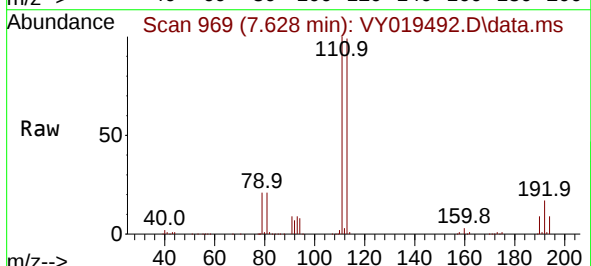
Tgt Ion:113 Resp: 228655

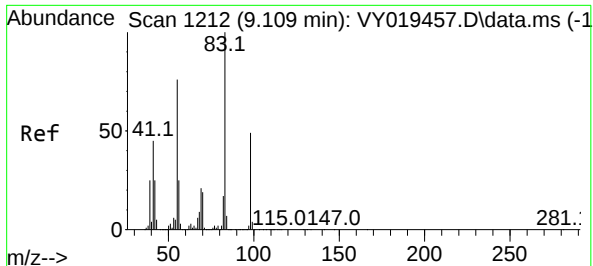
Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

192 17.4 15.9 23.9





#39

Methylcyclohexane

Concen: 4.796 ug/l

RT: 9.103 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019492.D

Acq: 10 Sep 2024 16:57

Instrument :

MSVOA_Y

ClientSampleId :

904

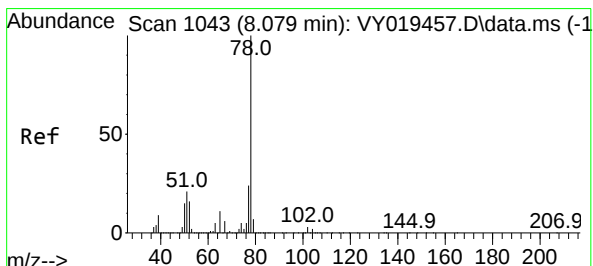
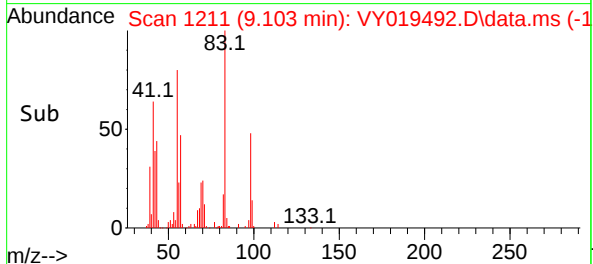
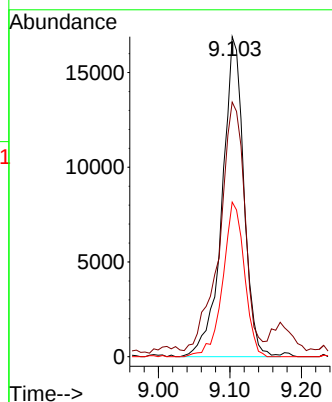
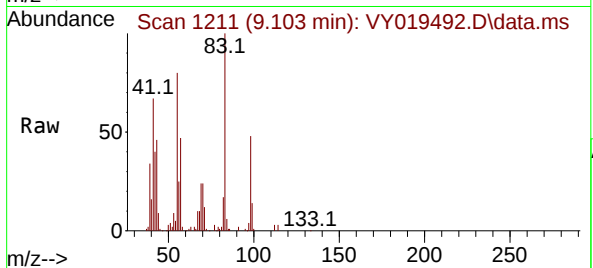
Tgt Ion: 83 Resp: 35643

Ion Ratio Lower Upper

83 100

55 77.5 51.5 77.3#

98 48.3 40.5 60.7



#40

Benzene

Concen: 9.091 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY019492.D

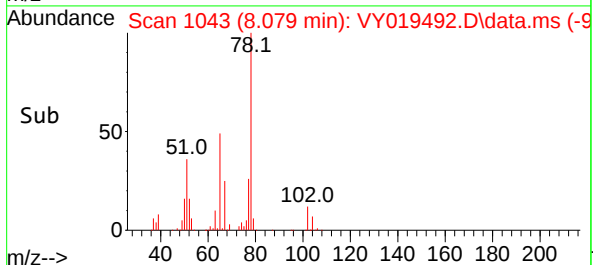
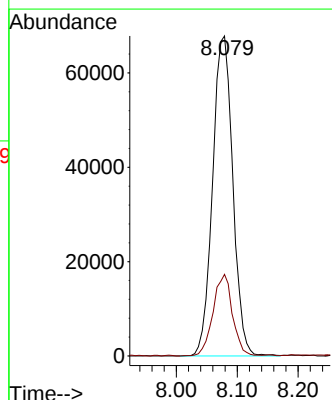
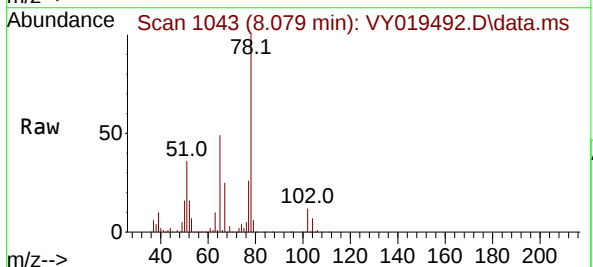
Acq: 10 Sep 2024 16:57

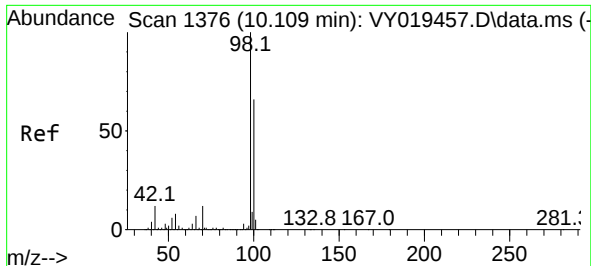
Tgt Ion: 78 Resp: 156365

Ion Ratio Lower Upper

78 100

77 25.5 19.5 29.3

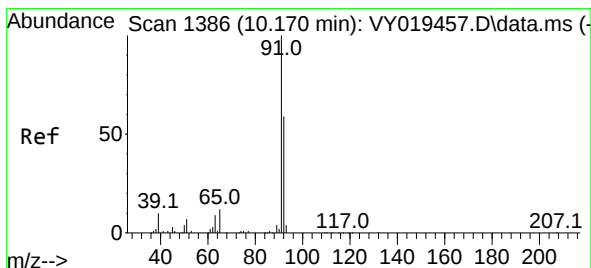
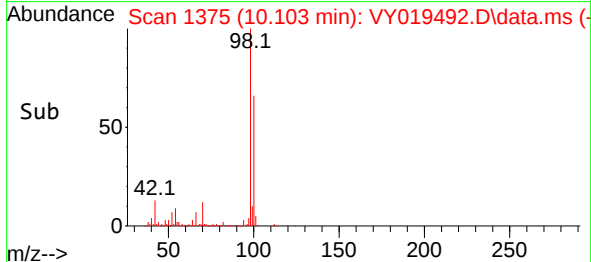
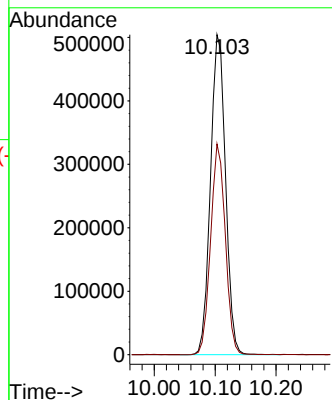
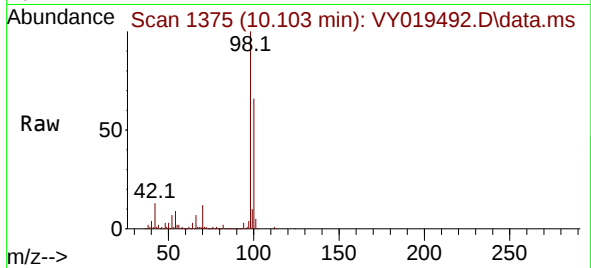




#50
Toluene-d8
Concen: 56.988 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

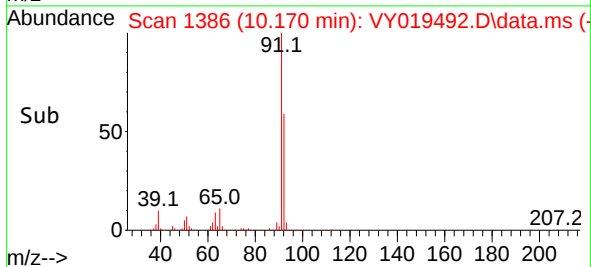
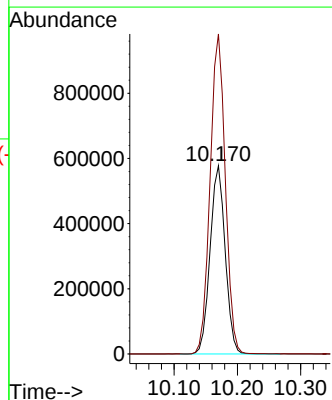
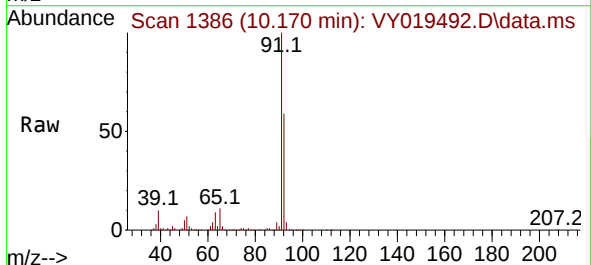
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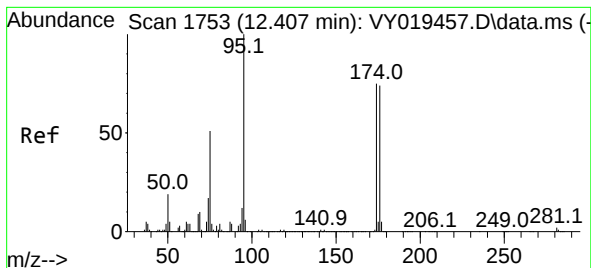
Tgt Ion: 98 Resp: 865060
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#52
Toluene
Concen: 86.753 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

Tgt Ion: 92 Resp: 959665
Ion Ratio Lower Upper
92 100
91 170.6 139.0 208.6

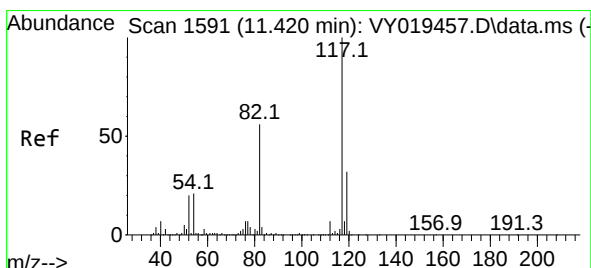
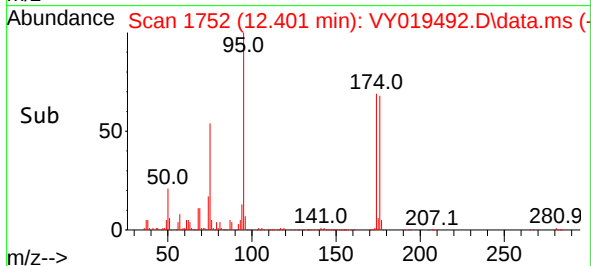
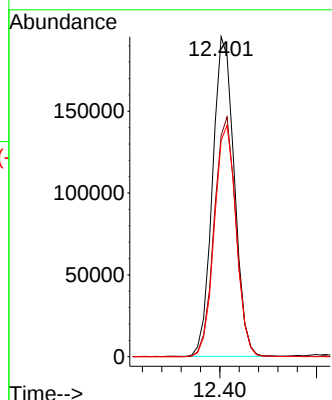
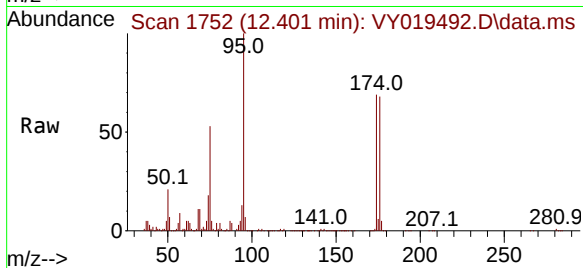




#62
4-Bromofluorobenzene
Concen: 52.330 ug/l
RT: 12.401 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

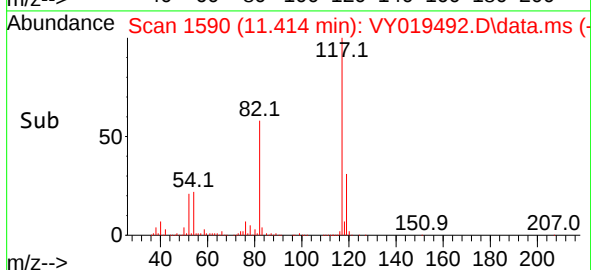
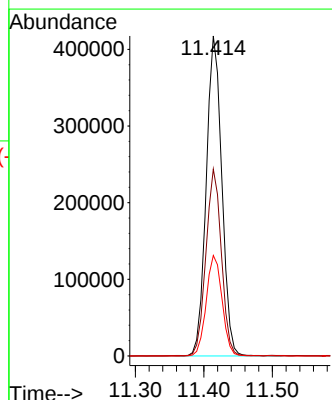
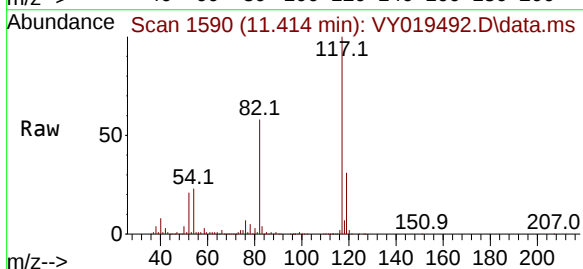
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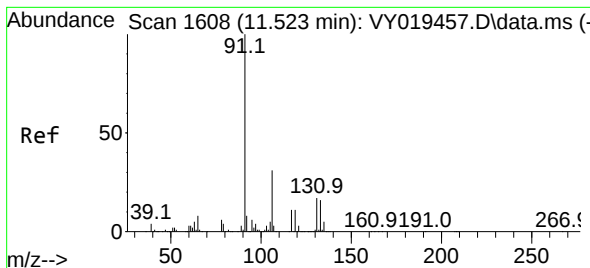
Tgt Ion: 95 Resp: 305436
Ion Ratio Lower Upper
95 100
174 74.9 0.0 175.6
176 72.3 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

Tgt Ion: 117 Resp: 661538
Ion Ratio Lower Upper
117 100
82 58.3 42.4 63.6
119 31.4 25.9 38.9





#67

Ethyl Benzene

Concen: 33.171 ug/l

RT: 11.517 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY019492.D

Acq: 10 Sep 2024 16:57

Instrument :

MSVOA_Y

ClientSampleId :

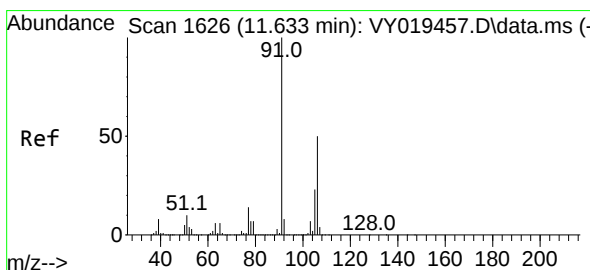
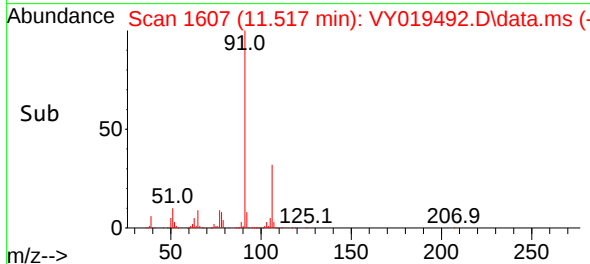
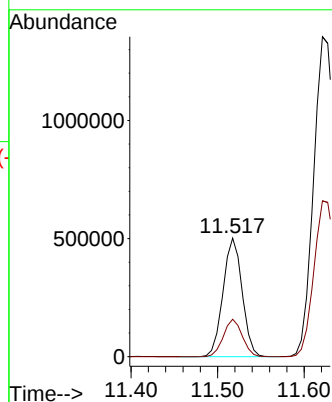
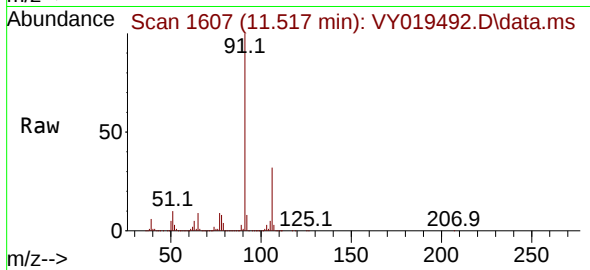
904

Tgt Ion: 91 Resp: 766979

Ion Ratio Lower Upper

91 100

106 31.5 24.5 36.7



#68

m/p-Xylenes

Concen: 138.175 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.012 min

Lab File: VY019492.D

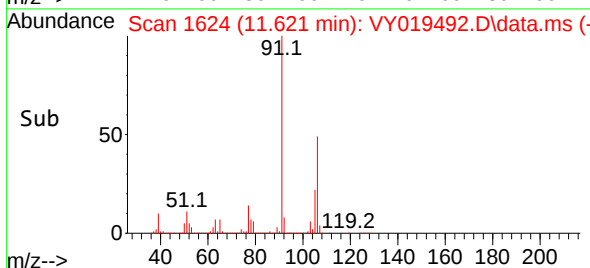
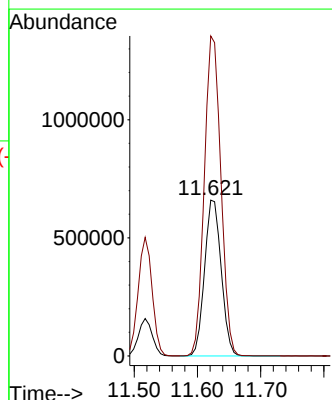
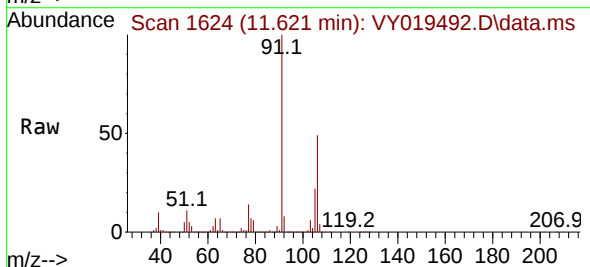
Acq: 10 Sep 2024 16:57

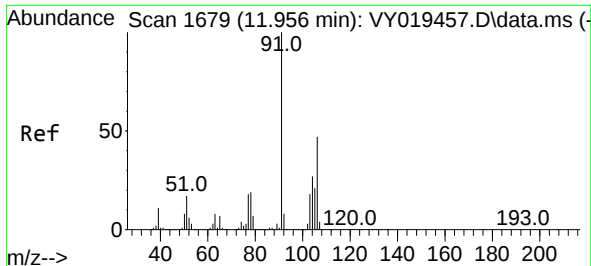
Tgt Ion:106 Resp: 1208041

Ion Ratio Lower Upper

106 100

91 204.6 156.0 234.0

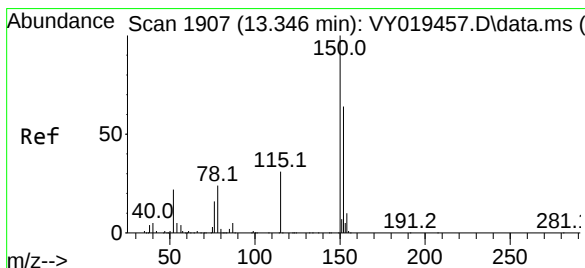
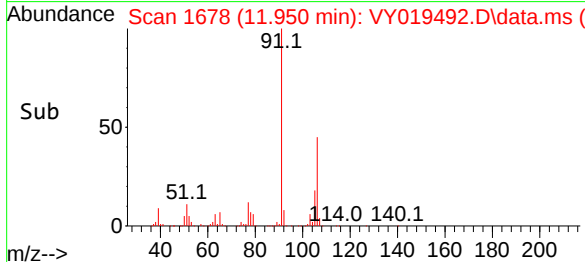
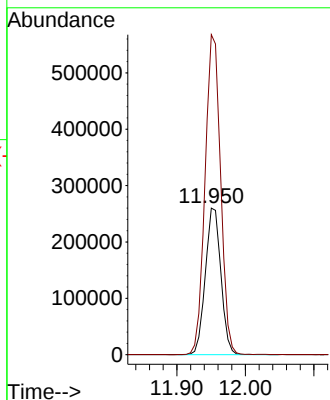
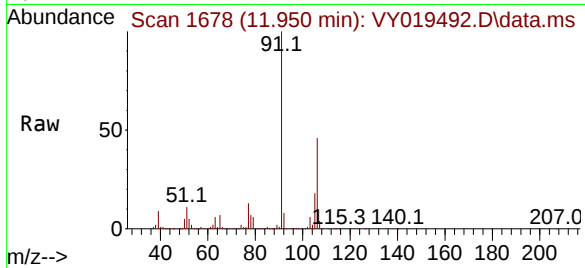




#69
o-Xylene
Concen: 48.102 ug/l
RT: 11.950 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

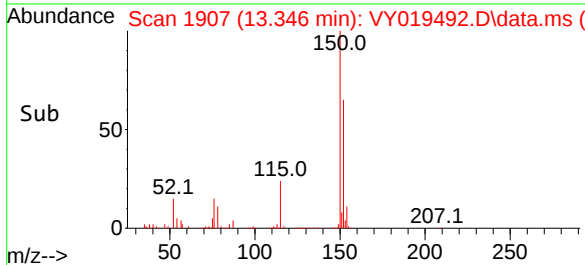
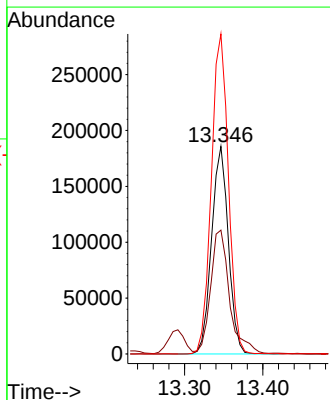
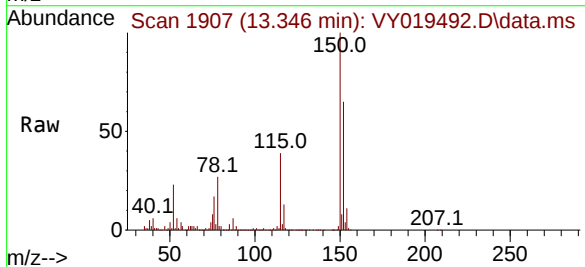
Instrument :
MSVOA_Y
ClientSampleId :
904

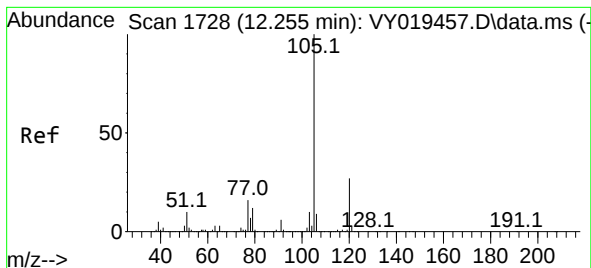
Tgt Ion:106 Resp: 411283
Ion Ratio Lower Upper
106 100
91 218.2 103.6 310.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

Tgt Ion:152 Resp: 276231
Ion Ratio Lower Upper
152 100
115 67.9 28.2 84.7
150 156.8 0.0 345.6





#73

Isopropylbenzene

Concen: 3.535 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. 0.000 min

Lab File: VY019492.D

Acq: 10 Sep 2024 16:57

Instrument :

MSVOA_Y

ClientSampleId :

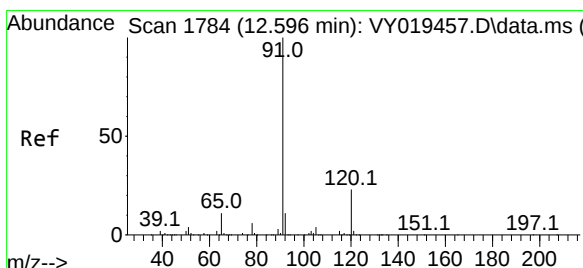
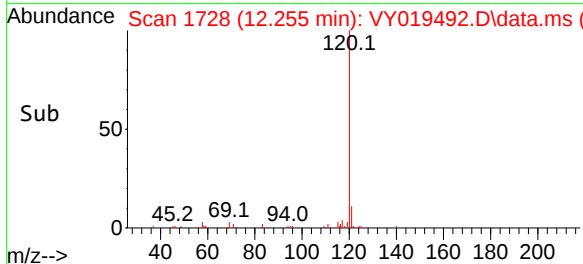
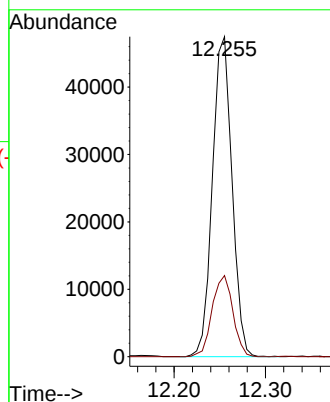
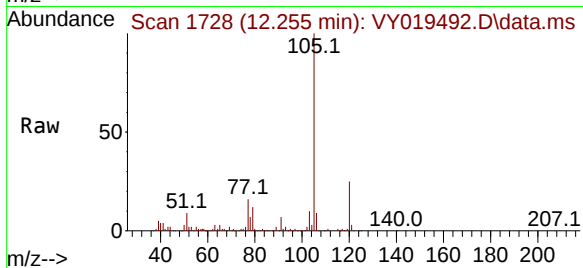
904

Tgt Ion:105 Resp: 70833

Ion Ratio Lower Upper

105 100

120 26.8 13.4 40.1



#78

n-propylbenzene

Concen: 16.370 ug/l

RT: 12.596 min Scan# 1784

Delta R.T. 0.000 min

Lab File: VY019492.D

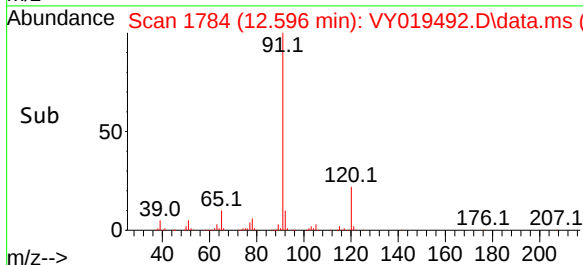
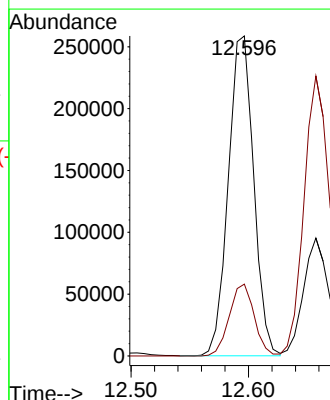
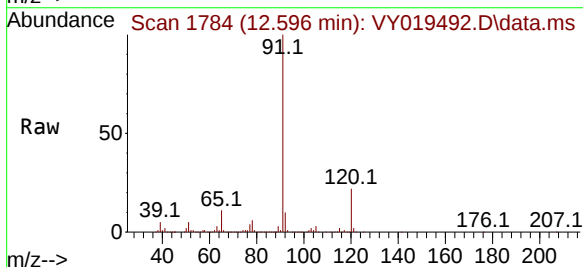
Acq: 10 Sep 2024 16:57

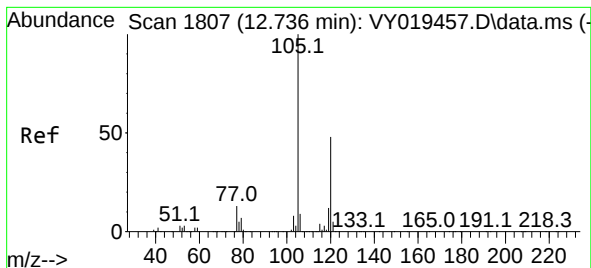
Tgt Ion: 91 Resp: 388826

Ion Ratio Lower Upper

91 100

120 22.1 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 22.991 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY019492.D

Acq: 10 Sep 2024 16:57

Instrument :

MSVOA_Y

ClientSampleId :

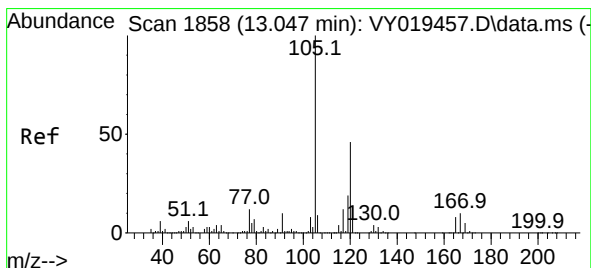
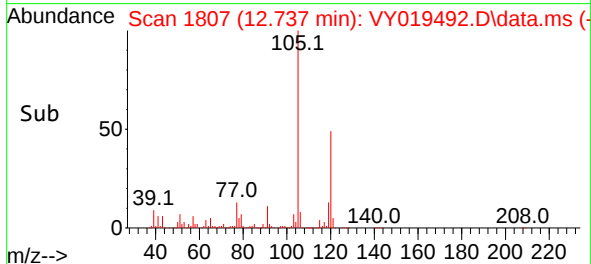
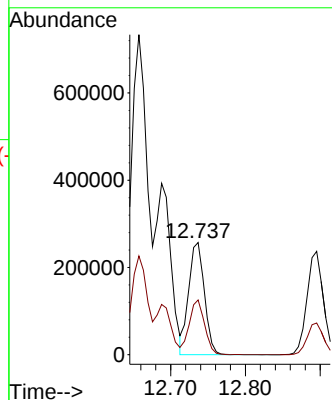
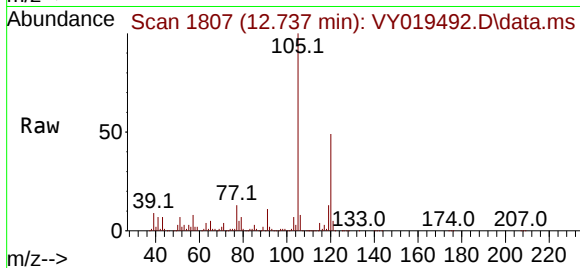
904

Tgt Ion:105 Resp: 374563

Ion Ratio Lower Upper

105 100

120 47.5 25.1 75.2



#84

1,2,4-Trimethylbenzene

Concen: 107.442 ug/l

RT: 13.041 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY019492.D

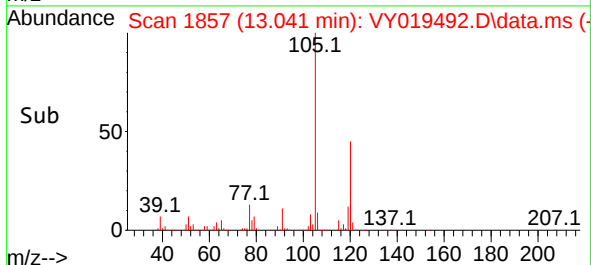
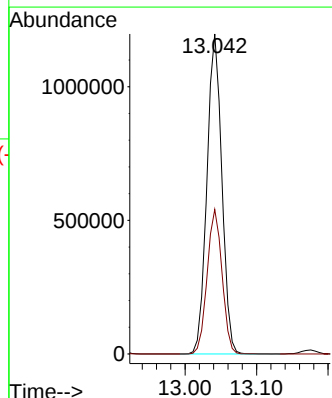
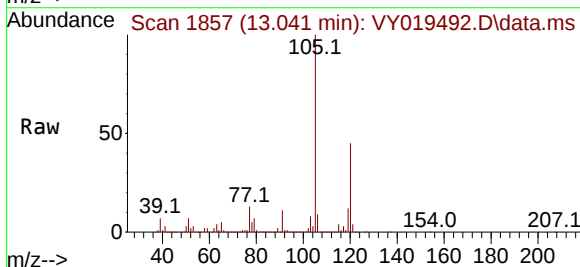
Acq: 10 Sep 2024 16:57

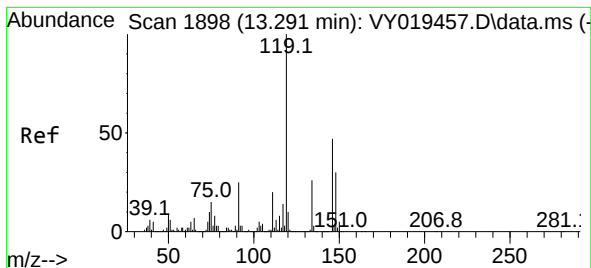
Tgt Ion:105 Resp: 1732638

Ion Ratio Lower Upper

105 100

120 45.1 23.2 69.6

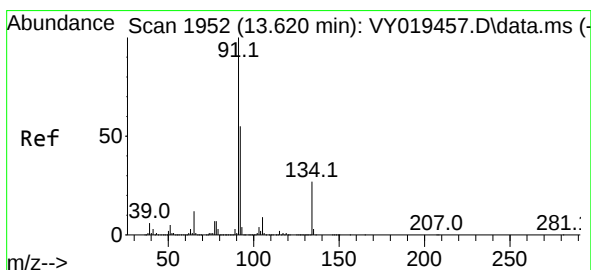
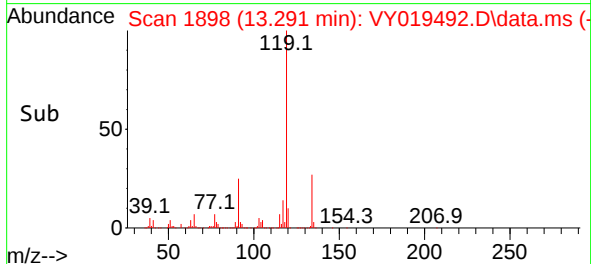
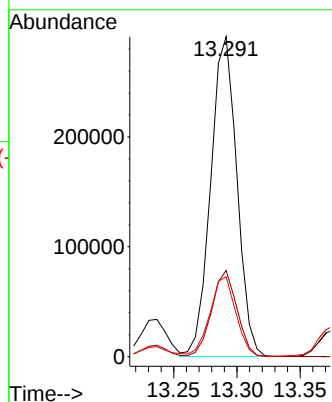
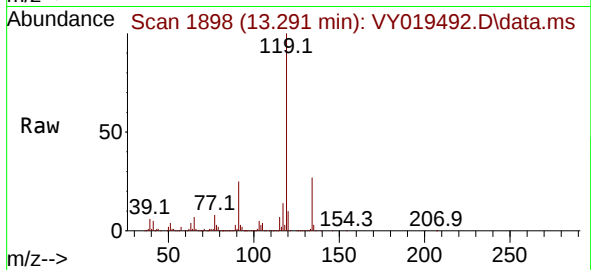




#86
p-Isopropyltoluene
Concen: 23.920 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

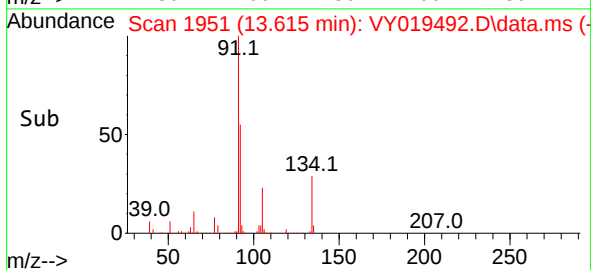
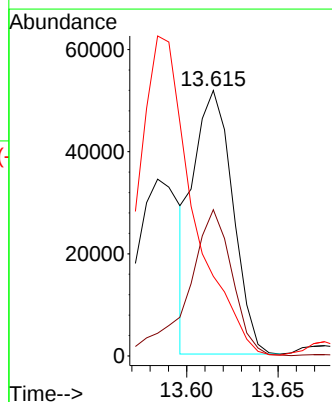
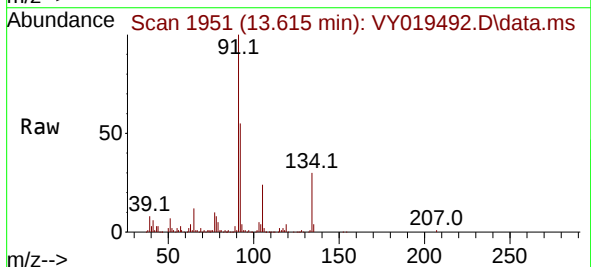
Instrument :
MSVOA_Y
ClientSampleId :
904

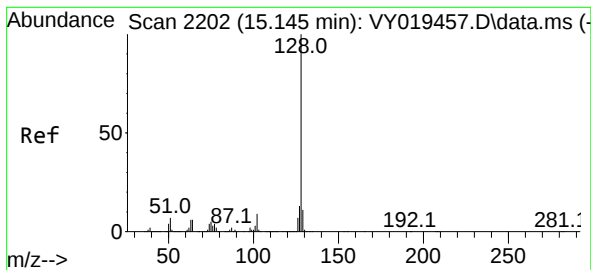
Tgt Ion:119 Resp: 419317
Ion Ratio Lower Upper
119 100
134 25.8 13.1 39.3
91 24.5 10.7 32.1



#89
n-Butylbenzene
Concen: 4.599 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

Tgt Ion: 91 Resp: 77068
Ion Ratio Lower Upper
91 100
92 62.4 26.6 79.7
134 0.0 12.9 38.7#





#95
Naphthalene
Concen: 22.578 ug/l
RT: 15.139 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY019492.D
Acq: 10 Sep 2024 16:57

Instrument :
MSVOA_Y
ClientSampleId :
904

Tgt Ion:128 Resp: 211936
Ion Ratio Lower Upper
128 100
127 12.8 10.6 16.0
129 11.0 8.6 13.0

