

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023903.D
 Acq On : 09 Dec 2025 13:08
 Operator : SY/MD
 Sample : Q3804-02RE
 Misc : 4.45g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 120325-ARE

Quant Time: Dec 10 02:26:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 03:49:13 2025
 Response via : Initial Calibration

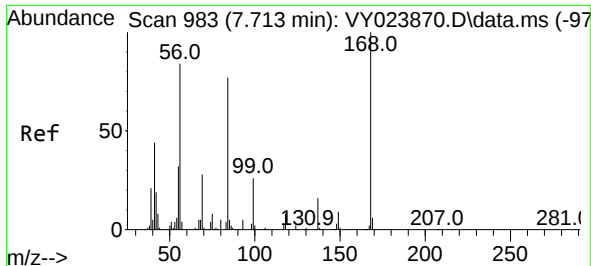
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.725	168	195261	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.628	114	304769	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.426	117	241237	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	82691	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	97527	49.929	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.860%			
35) Dibromofluoromethane	7.646	113	102047	52.206	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.420%			
50) Toluene-d8	10.115	98	344688	45.315	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.620%			
62) 4-Bromofluorobenzene	12.414	95	94568	36.450	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 72.900%			
Target Compounds						Qvalue
39) Methylcyclohexane	9.121	83	55821	14.878	ug/l	93
40) Benzene	8.097	78	11005	1.263	ug/l	92
52) Toluene	10.182	92	171305	31.399	ug/l	96
67) Ethyl Benzene	11.523	91	349494	36.716	ug/l	98
68) m/p-Xylenes	11.633	106	455193	125.110	ug/l	97
69) o-Xylene	11.962	106	227494	66.851	ug/l	98
73) Isopropylbenzene	12.261	105	123947	20.345	ug/l	97
78) n-propylbenzene	12.603	91	337765	45.944	ug/l	97
80) 1,3,5-Trimethylbenzene	12.743	105	351985	71.103	ug/l	98
84) 1,2,4-Trimethylbenzene	13.048	105	1219988	248.767	ug/l	96
85) sec-Butylbenzene	13.182	105	144069	21.701	ug/l	86
86) p-Isopropyltoluene	13.298	119	83562	15.202	ug/l	98
89) n-Butylbenzene	13.621	91	137966	27.118	ug/l #	79
95) Naphthalene	15.151	128	60722	25.065	ug/l #	92

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

Quant Time: Dec 10 02:26:03 2025
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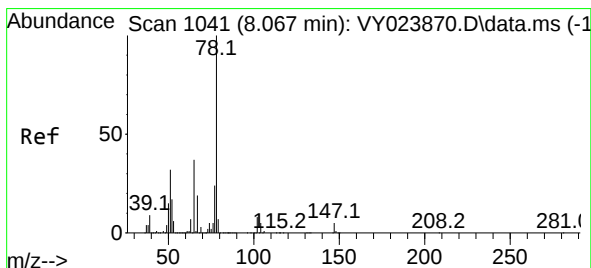
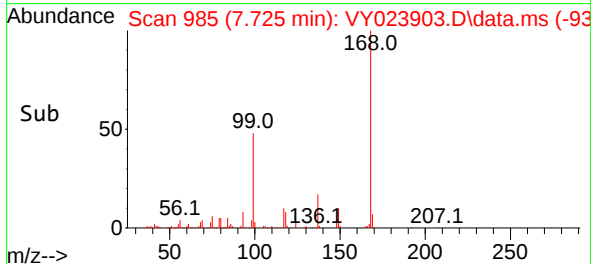
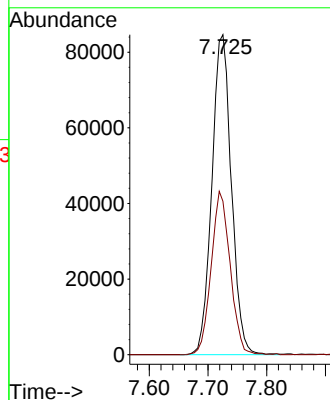
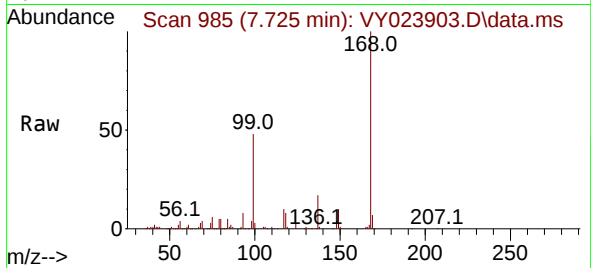




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.725 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

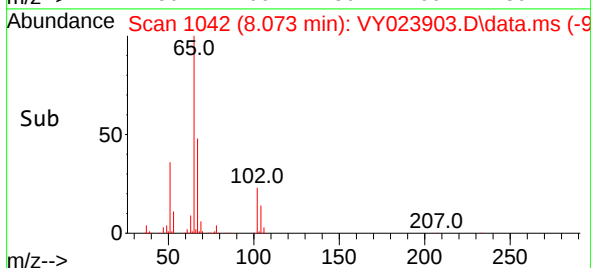
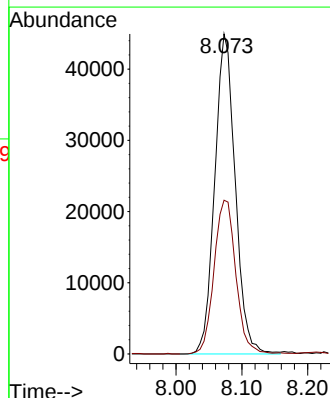
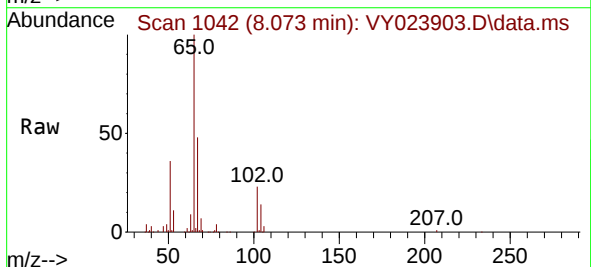
Instrument :
MSVOA_Y
ClientSampleId :
120325-ARE

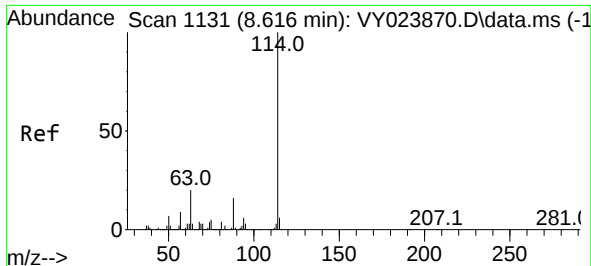
Tgt Ion:168 Resp: 195261
Ion Ratio Lower Upper
168 100
99 47.9 42.5 63.7



#33
1,2-Dichloroethane-d4
Concen: 49.929 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

Tgt Ion: 65 Resp: 97527
Ion Ratio Lower Upper
65 100
67 51.1 0.0 107.2

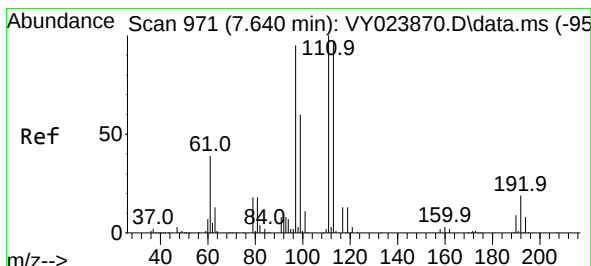
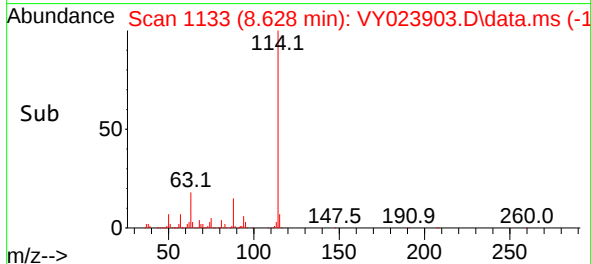
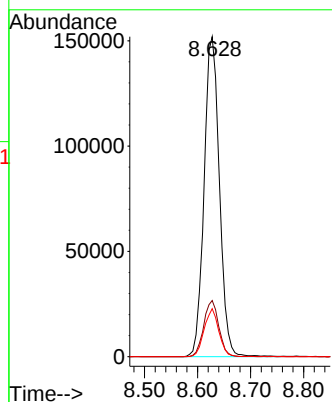
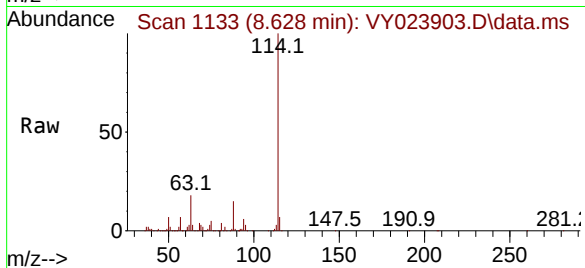




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.628 min Scan# 1133
Delta R.T. 0.012 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

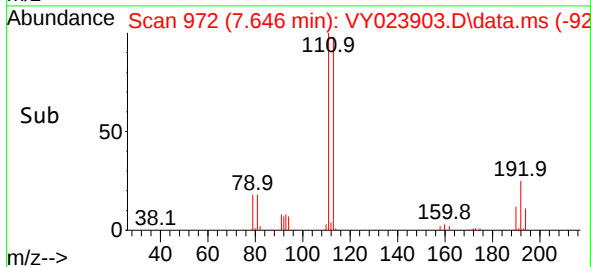
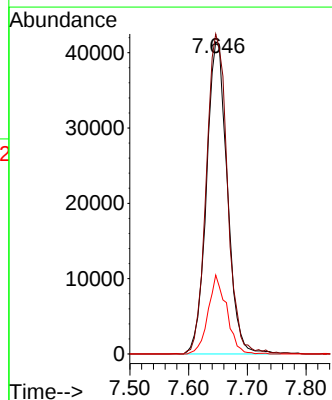
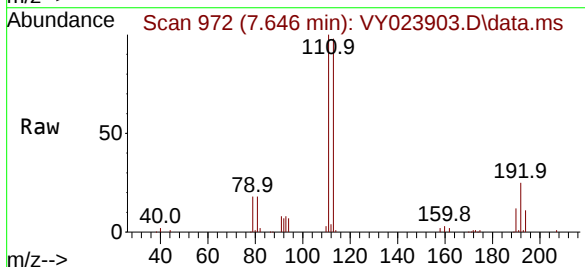
Instrument :
MSVOA_Y
ClientSampleId :
120325-ARE

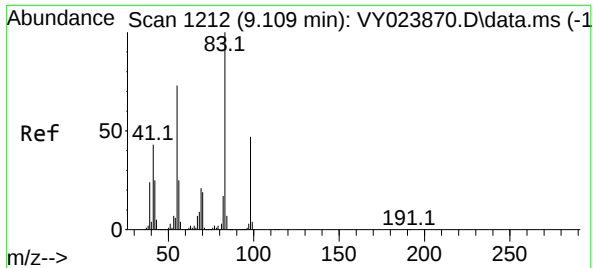
Tgt Ion:114 Resp: 304769
Ion Ratio Lower Upper
114 100
63 17.5 0.0 39.2
88 15.0 0.0 31.4



#35
Dibromofluoromethane
Concen: 52.206 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

Tgt Ion:113 Resp: 102047
Ion Ratio Lower Upper
113 100
111 104.2 82.2 123.2
192 22.5 15.8 23.8





#39

Methylcyclohexane

Concen: 14.878 ug/l

RT: 9.121 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY023903.D

Acq: 09 Dec 2025 13:08

Instrument :

MSVOA_Y

ClientSampleId :

120325-ARE

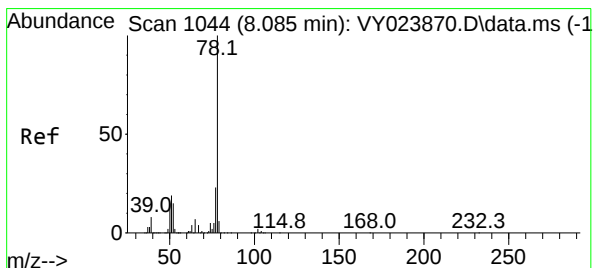
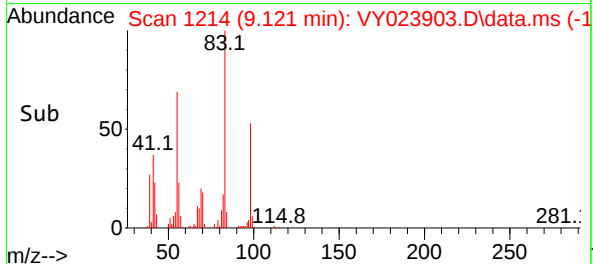
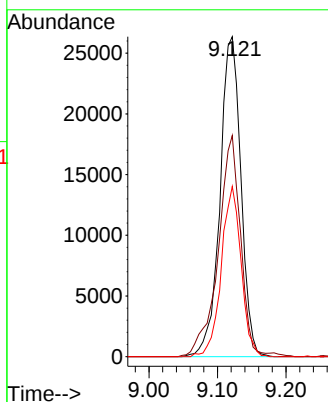
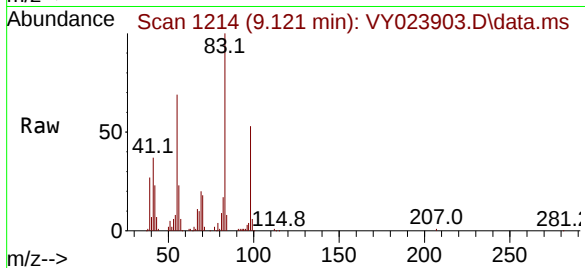
Tgt Ion: 83 Resp: 55821

Ion Ratio Lower Upper

83 100

55 69.1 58.8 88.2

98 53.2 37.8 56.6



#40

Benzene

Concen: 1.263 ug/l

RT: 8.097 min Scan# 1046

Delta R.T. 0.012 min

Lab File: VY023903.D

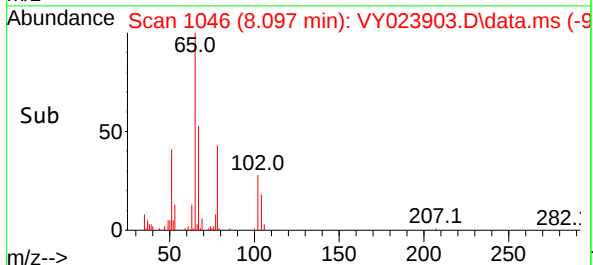
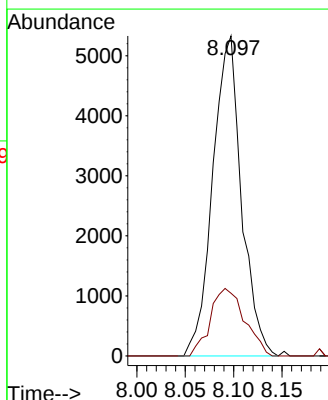
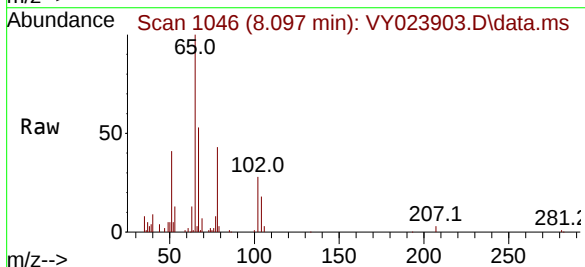
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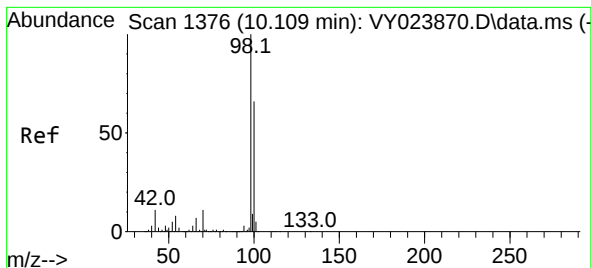
Tgt Ion: 78 Resp: 11005

Ion Ratio Lower Upper

78 100

77 19.6 18.6 28.0





#50

Toluene-d8

Concen: 45.315 ug/l

RT: 10.115 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023903.D

Acq: 09 Dec 2025 13:08

Instrument :

MSVOA_Y

ClientSampleId :

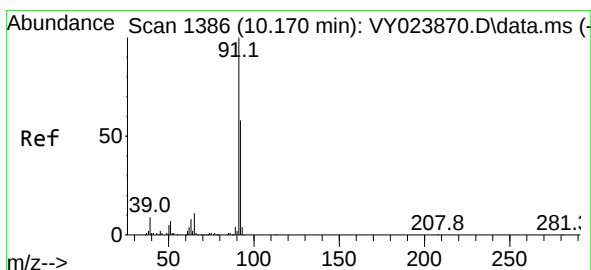
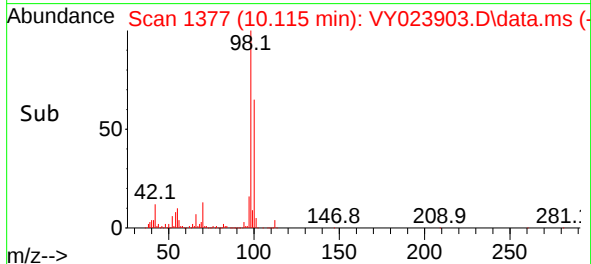
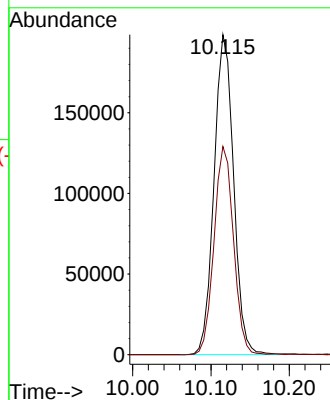
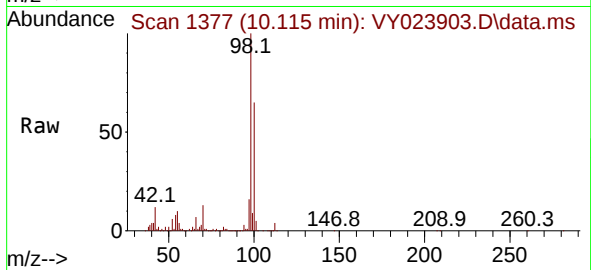
120325-ARE

Tgt Ion: 98 Resp: 344688

Ion Ratio Lower Upper

98 100

100 64.7 52.5 78.7



#52

Toluene

Concen: 31.399 ug/l

RT: 10.182 min Scan# 1388

Delta R.T. 0.012 min

Lab File: VY023903.D

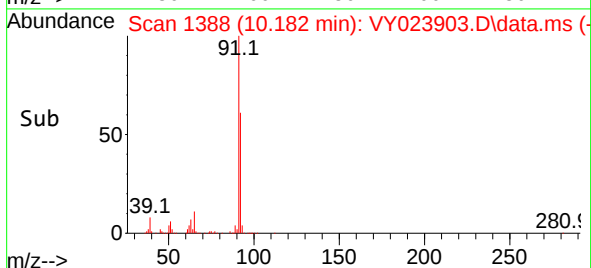
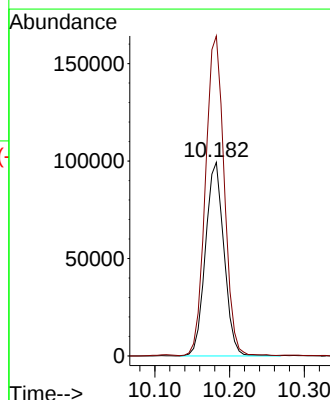
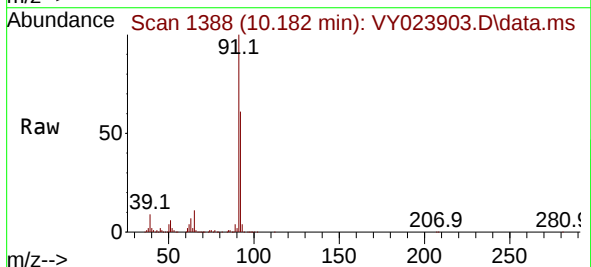
Acq: 09 Dec 2025 13:08

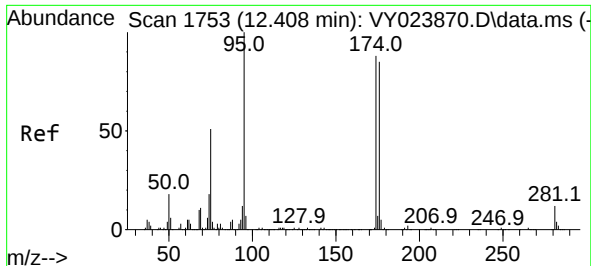
Tgt Ion: 92 Resp: 171305

Ion Ratio Lower Upper

92 100

91 166.1 137.3 205.9

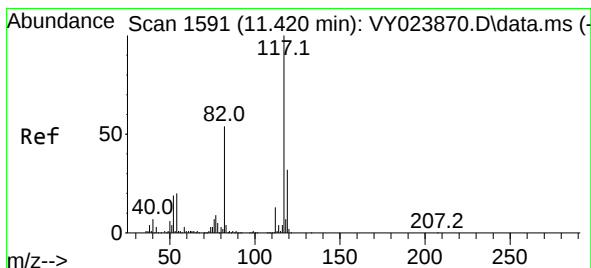
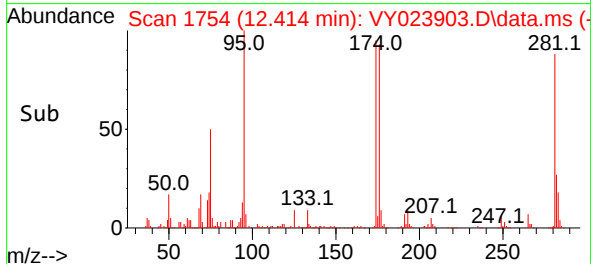
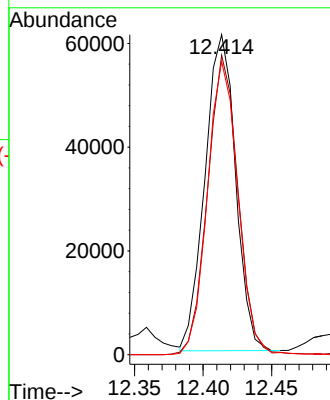
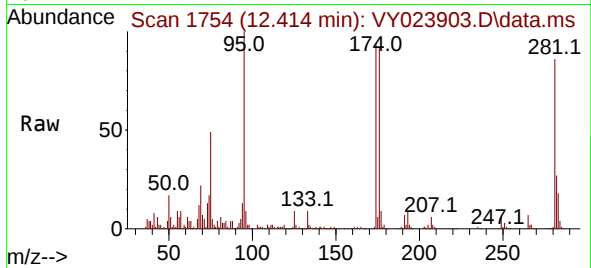




#62
4-Bromofluorobenzene
Concen: 36.450 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

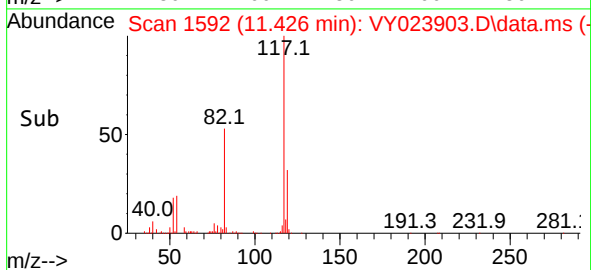
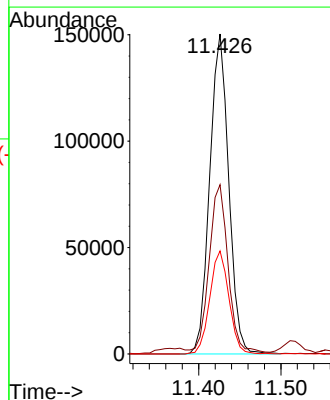
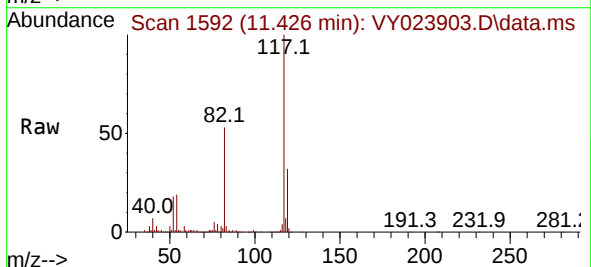
Instrument :
MSVOA_Y
ClientSampleId :
120325-ARE

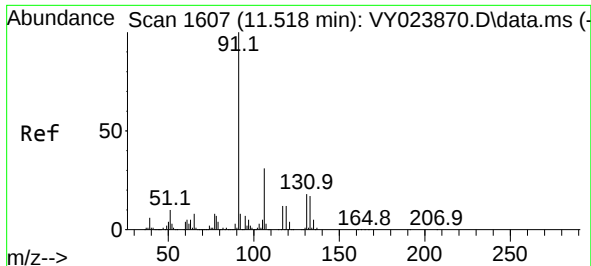
Tgt Ion: 95 Resp: 94568
Ion Ratio Lower Upper
95 100
174 94.2 0.0 169.6
176 92.7 0.0 164.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

Tgt Ion: 117 Resp: 241237
Ion Ratio Lower Upper
117 100
82 51.1 43.1 64.7
119 32.2 26.0 39.0





#67

Ethyl Benzene

Concen: 36.716 ug/l

RT: 11.523 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023903.D

Acq: 09 Dec 2025 13:08

Instrument :

MSVOA_Y

ClientSampleId :

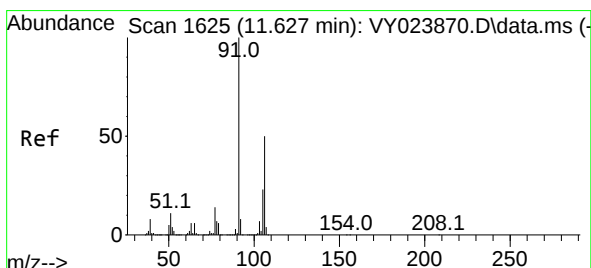
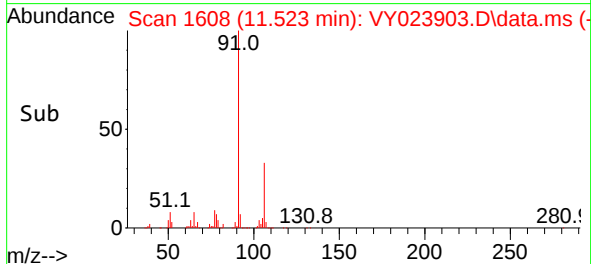
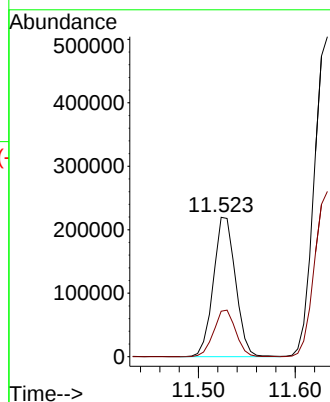
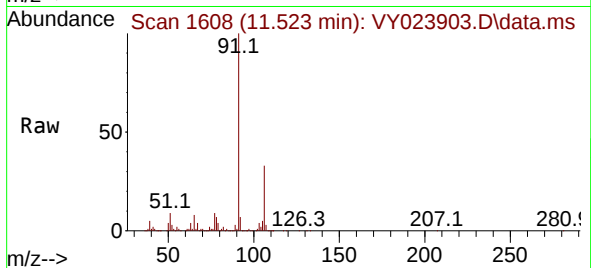
120325-ARE

Tgt Ion: 91 Resp: 349494

Ion Ratio Lower Upper

91 100

106 32.6 25.0 37.6



#68

m/p-Xylenes

Concen: 125.110 ug/l

RT: 11.633 min Scan# 1626

Delta R.T. 0.006 min

Lab File: VY023903.D

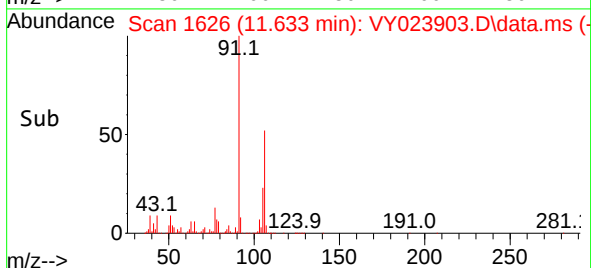
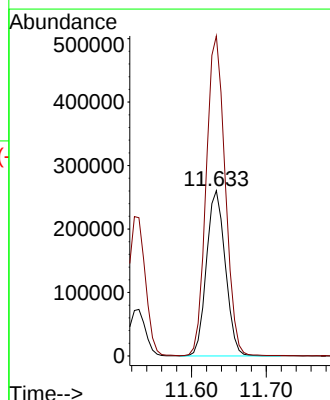
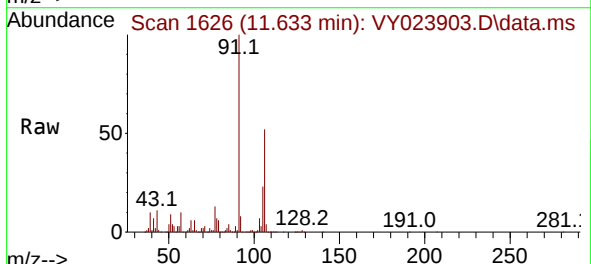
Acq: 09 Dec 2025 13:08

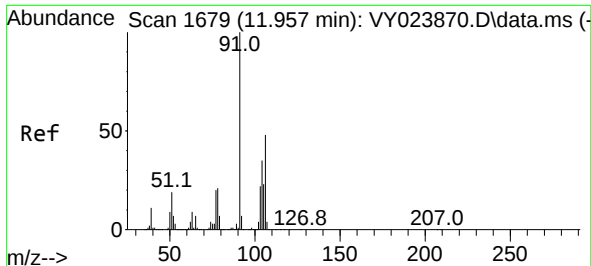
Tgt Ion:106 Resp: 455193

Ion Ratio Lower Upper

106 100

91 195.2 159.7 239.5

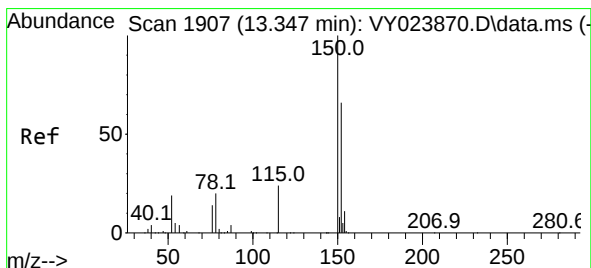
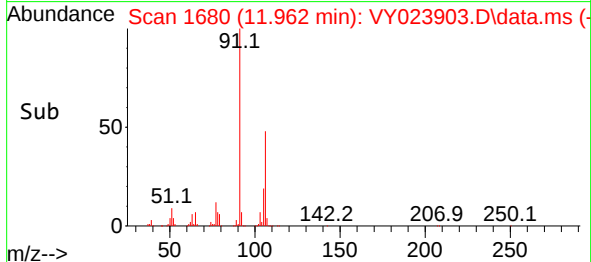
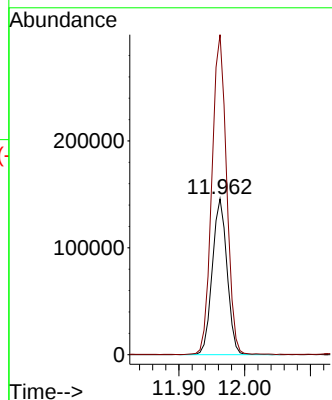
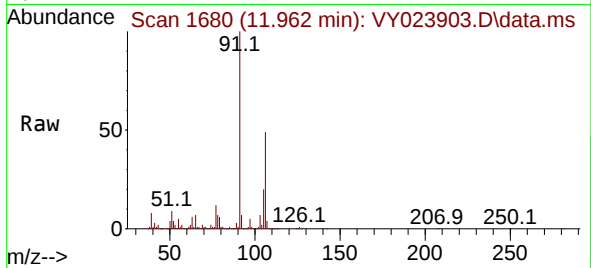




#69
o-Xylene
Concen: 66.851 ug/l
RT: 11.962 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

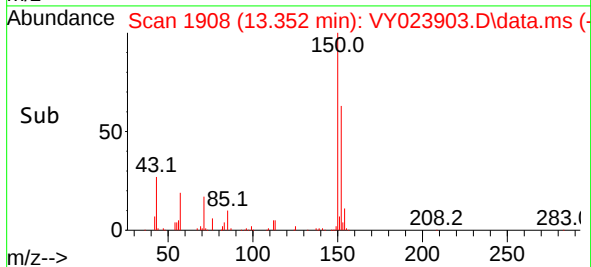
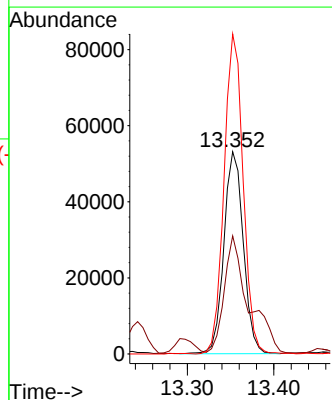
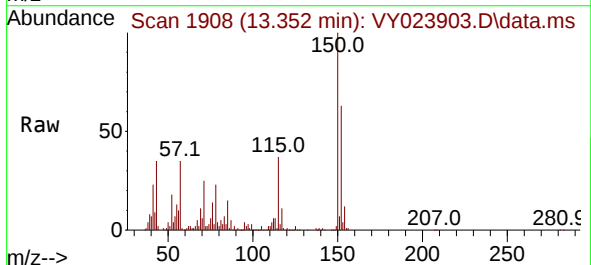
Instrument :
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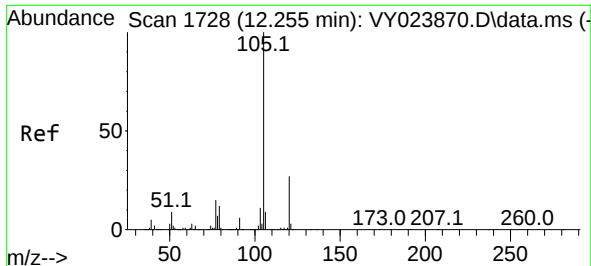
Tgt Ion:106 Resp: 227494
Ion Ratio Lower Upper
106 100
91 205.2 104.4 313.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

Tgt Ion:152 Resp: 82691
Ion Ratio Lower Upper
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150 155.9 0.0 352.2

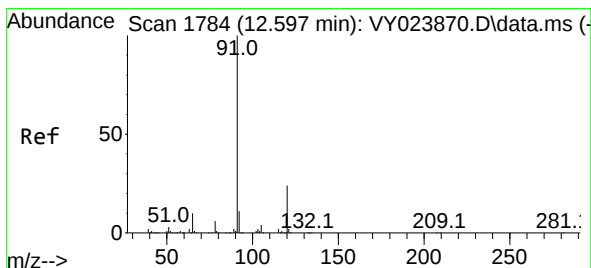
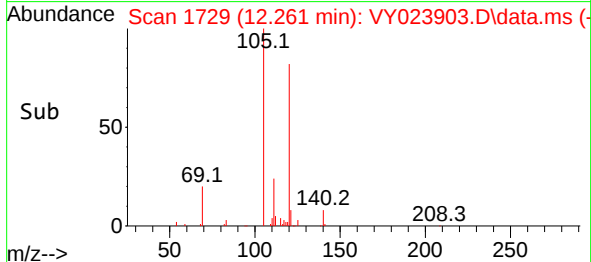
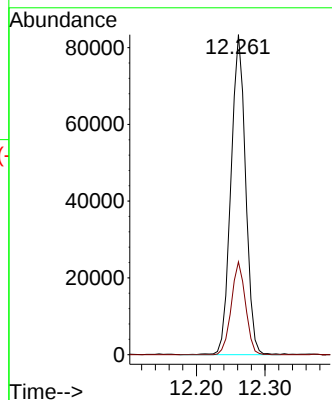
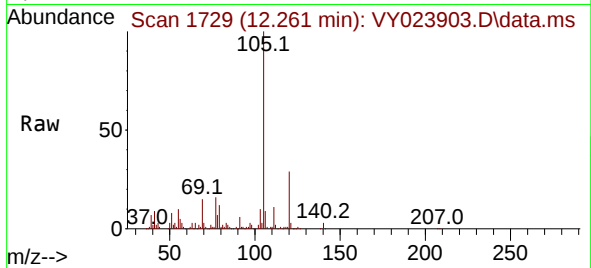




#73
Isopropylbenzene
Concen: 20.345 ug/l
RT: 12.261 min Scan# 1728
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

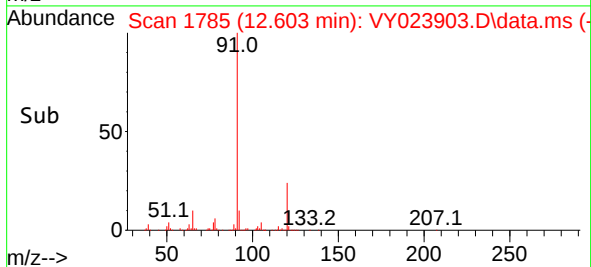
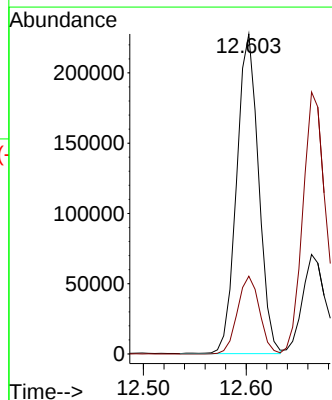
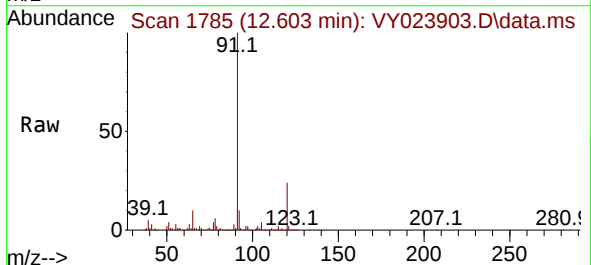
Instrument :
MSVOA_Y
ClientSampleId :
120325-ARE

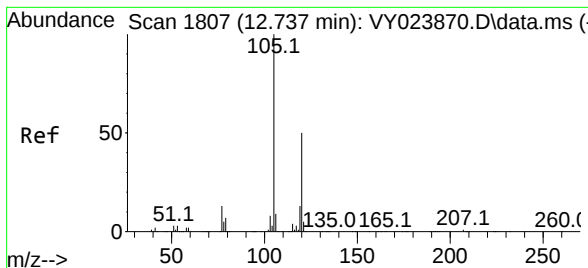
Tgt Ion:105 Resp: 123947
Ion Ratio Lower Upper
105 100
120 28.1 13.4 40.1



#78
n-propylbenzene
Concen: 45.944 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

Tgt Ion: 91 Resp: 337765
Ion Ratio Lower Upper
91 100
120 24.4 11.5 34.5





#80

1,3,5-Trimethylbenzene

Concen: 71.103 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. 0.006 min

Lab File: VY023903.D

Acq: 09 Dec 2025 13:08

Instrument :

MSVOA_Y

ClientSampleId :

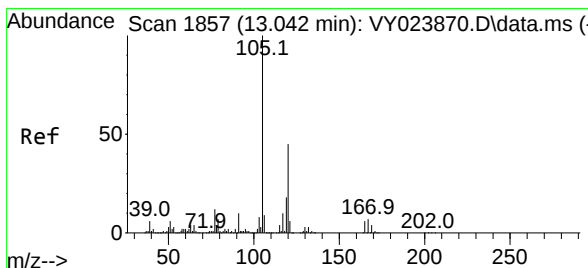
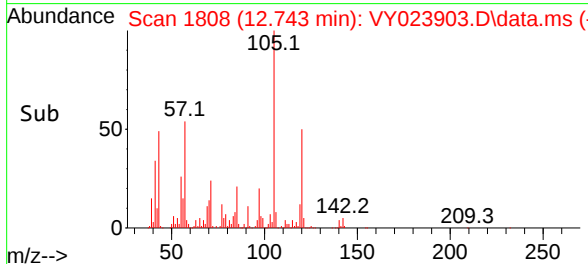
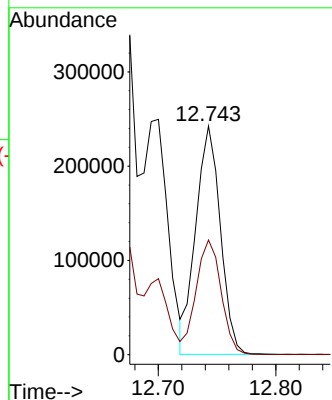
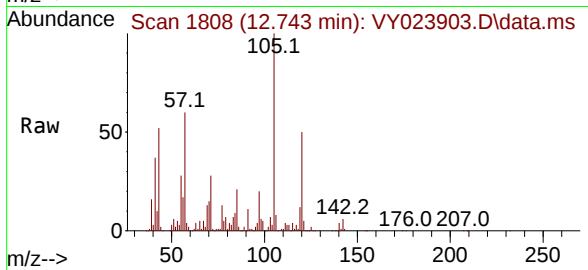
120325-ARE

Tgt Ion:105 Resp: 351985

Ion Ratio Lower Upper

105 100

120 51.1 24.9 74.6



#84

1,2,4-Trimethylbenzene

Concen: 248.767 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.006 min

Lab File: VY023903.D

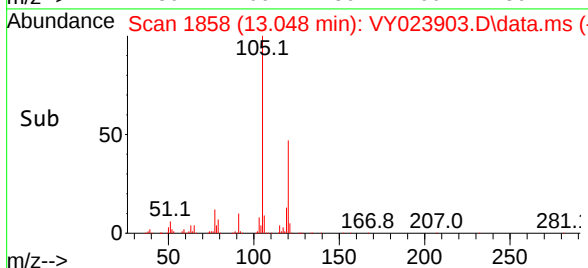
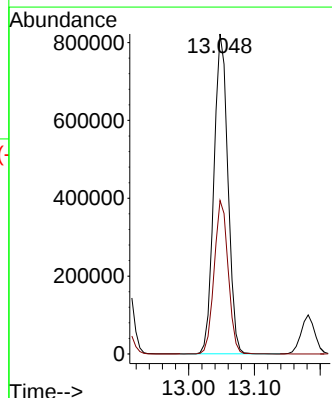
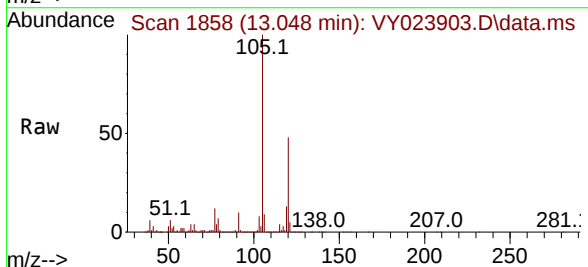
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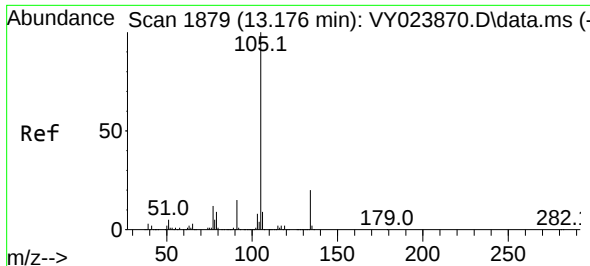
Tgt Ion:105 Resp: 1219988

Ion Ratio Lower Upper

105 100

120 47.8 22.4 67.3

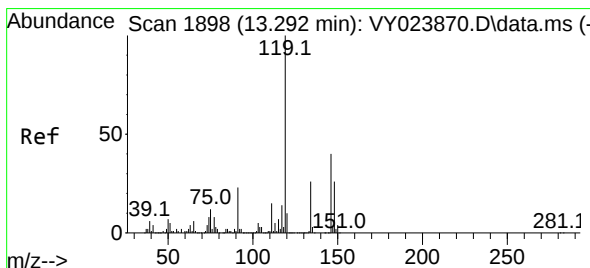
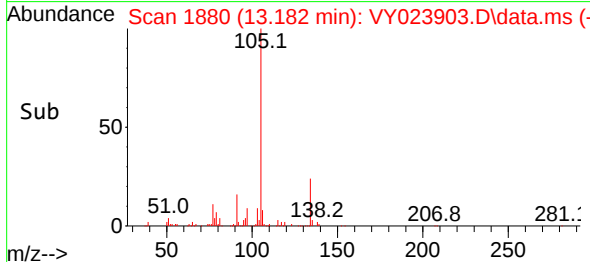
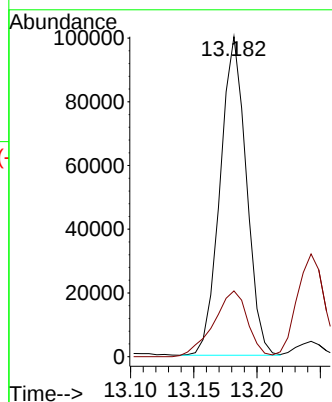
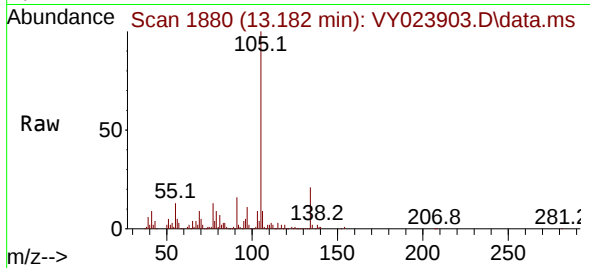




#85
 sec-Butylbenzene
 Concen: 21.701 ug/l
 RT: 13.182 min Scan# 1880
 Delta R.T. 0.006 min
 Lab File: VY023903.D
 Acq: 09 Dec 2025 13:08

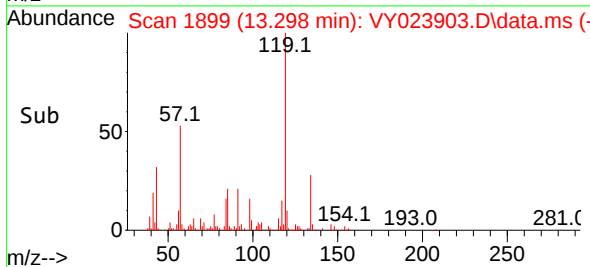
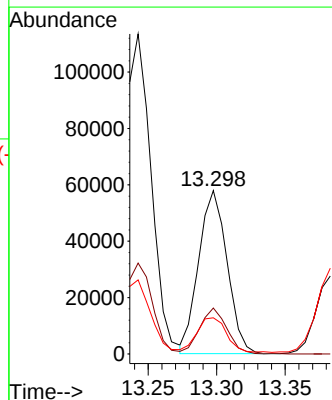
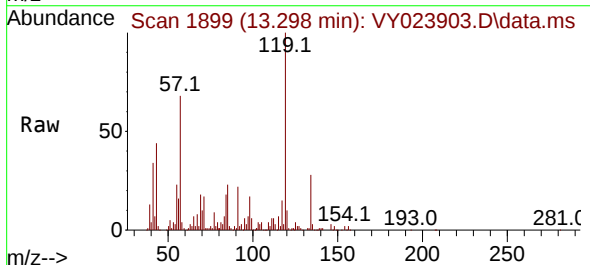
Instrument :
 MSVOA_Y
 ClientSampleId :
 120325-ARE

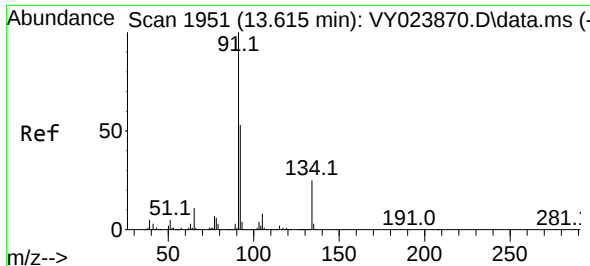
Tgt Ion:105 Resp: 144069
 Ion Ratio Lower Upper
 105 100
 134 26.8 10.1 30.3



#86
 p-Isopropyltoluene
 Concen: 15.202 ug/l
 RT: 13.298 min Scan# 1899
 Delta R.T. 0.006 min
 Lab File: VY023903.D
 Acq: 09 Dec 2025 13:08

Tgt Ion:119 Resp: 83562
 Ion Ratio Lower Upper
 119 100
 134 26.9 13.1 39.1
 91 21.9 11.6 34.8

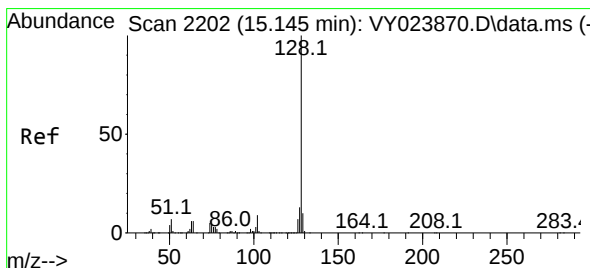
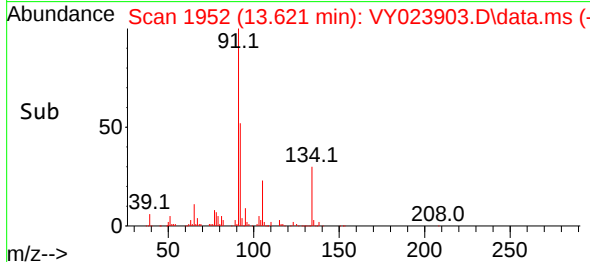
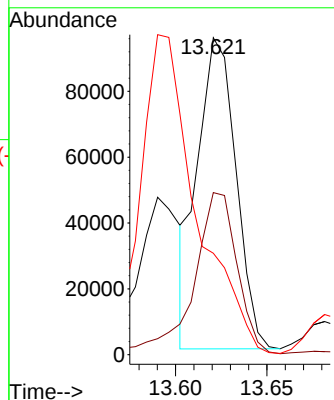
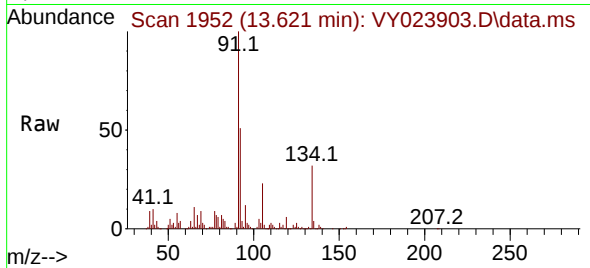




#89
n-Butylbenzene
Concen: 27.118 ug/l
RT: 13.621 min Scan# 1952
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

Instrument :
MSVOA_Y
ClientSampleId :
120325-ARE

Tgt Ion: 91 Resp: 137966
Ion Ratio Lower Upper
91 100
92 57.5 26.7 80.0
134 0.0 13.0 39.0#



#95
Naphthalene
Concen: 25.065 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.006 min
Lab File: VY023903.D
Acq: 09 Dec 2025 13:08

Tgt Ion: 128 Resp: 60722
Ion Ratio Lower Upper
128 100
127 17.0 10.3 15.5#
129 8.8 8.7 13.1

