

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110325\  
 Data File : VY023651.D  
 Acq On : 03 Nov 2025 12:16  
 Operator : SY/MD  
 Sample : Q3499-01RE  
 Misc : 4.68g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RBR251235RE

Quant Time: Nov 04 01:31:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 08 05:12:50 2025  
 Response via : Initial Calibration

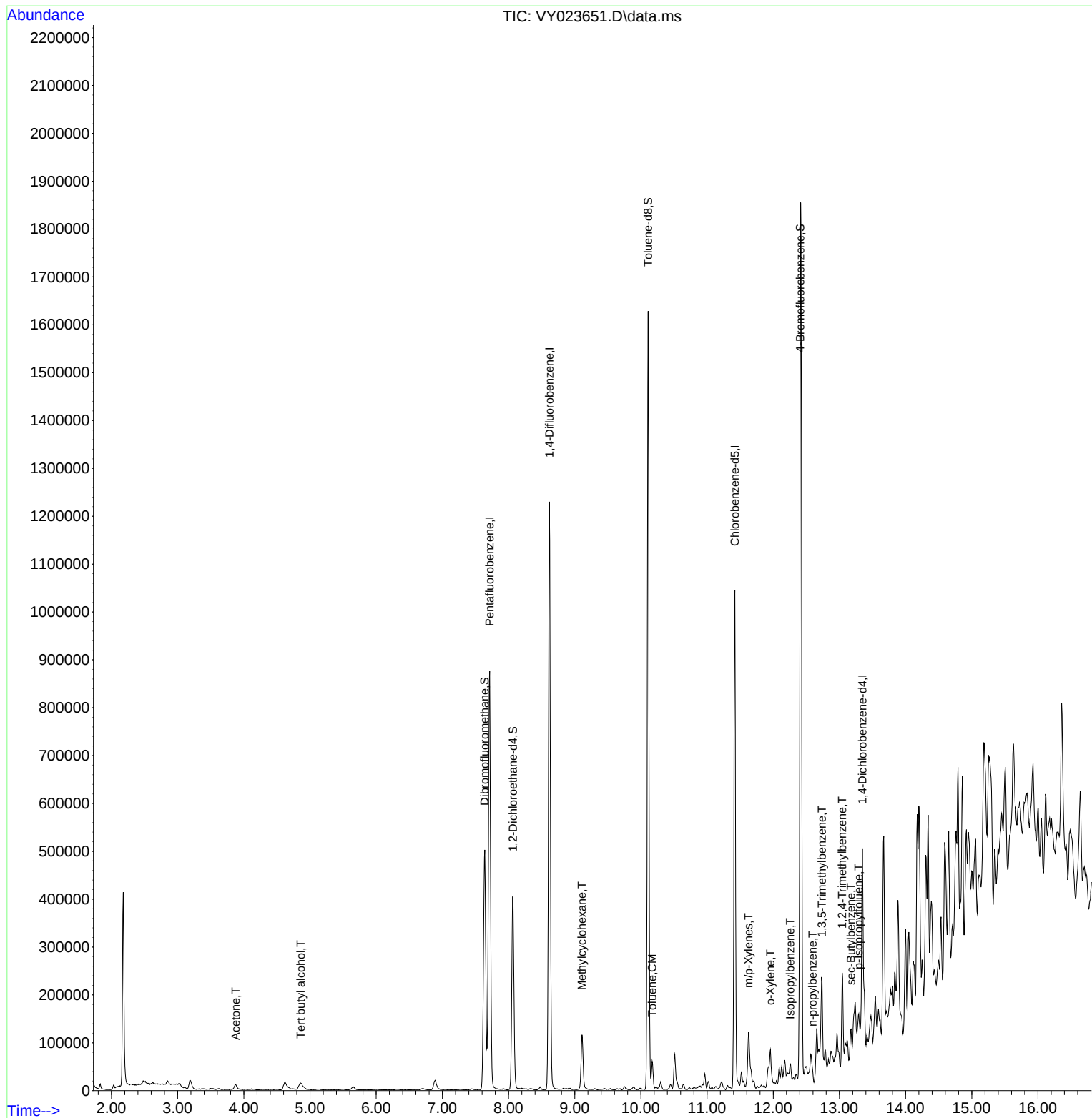
| Compound                    | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|----------|
| -----                       |        |       |          |          |       |          |
| Internal Standards          |        |       |          |          |       |          |
| 1) Pentafluorobenzene       | 7.713  | 168   | 718745   | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.616  | 114   | 1101215  | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5        | 11.420 | 117   | 599022   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.347 | 152   | 117035   | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 316931   | 52.732   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =     | 105.460% |
| 35) Dibromofluoromethane    | 7.640  | 113   | 358845   | 53.033   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =     | 106.060% |
| 50) Toluene-d8              | 10.109 | 98    | 1051260  | 41.718   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =     | 83.440%  |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 171514   | 20.616   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =     | 41.240%  |
| Target Compounds            |        |       |          |          |       |          |
|                             |        |       |          |          |       | Qvalue   |
| 11) Tert butyl alcohol      | 4.860  | 59    | 27273    | 60.996   | ug/l  | 98       |
| 16) Acetone                 | 3.879  | 43    | 18484    | 12.918   | ug/l  | 98       |
| 39) Methylcyclohexane       | 9.110  | 83    | 45657    | 3.914    | ug/l  | 96       |
| 52) Toluene                 | 10.170 | 92    | 23241    | 1.262    | ug/l  | 100      |
| 68) m/p-Xylenes             | 11.627 | 106   | 32304    | 3.819    | ug/l  | 98       |
| 69) o-Xylene                | 11.957 | 106   | 16198    | 2.042    | ug/l  | 92       |
| 73) Isopropylbenzene        | 12.255 | 105   | 10384    | 1.346    | ug/l  | 93       |
| 78) n-propylbenzene         | 12.597 | 91    | 15615    | 1.750    | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.737 | 105   | 34652    | 5.560    | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.042 | 105   | 94607    | 15.210   | ug/l  | 100      |
| 85) sec-Butylbenzene        | 13.176 | 105   | 17870    | 2.165    | ug/l  | # 72     |
| 86) p-Isopropyltoluene      | 13.292 | 119   | 32105    | 4.568    | ug/l  | 99       |
| -----                       |        |       |          |          |       |          |

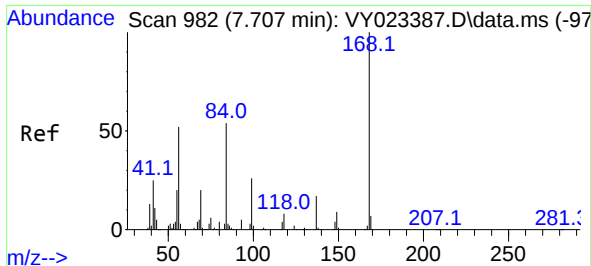
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110325\  
Data File : VY023651.D  
Acq On : 03 Nov 2025 12:16  
Operator : SY/MD  
Sample : Q3499-01RE  
Misc : 4.68g/5.0mL/MSVOA\_Y/SOIL/B  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR251235RE

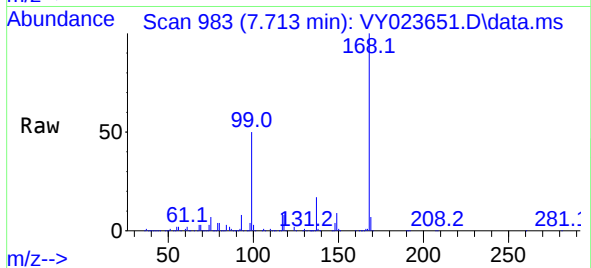
Quant Time: Nov 04 01:31:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 08 05:12:50 2025  
Response via : Initial Calibration



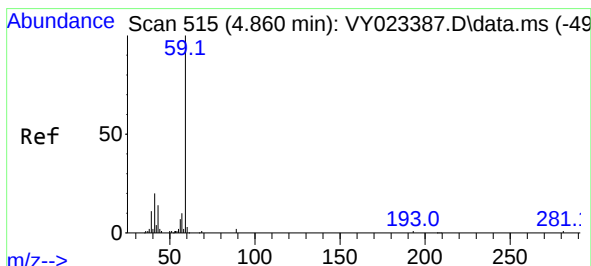
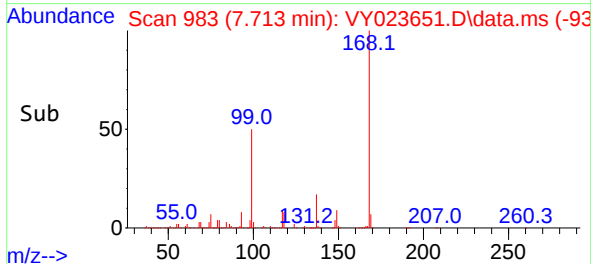
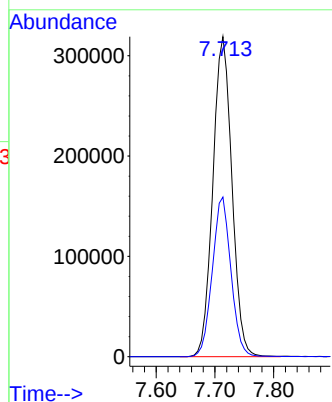


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR251235RE

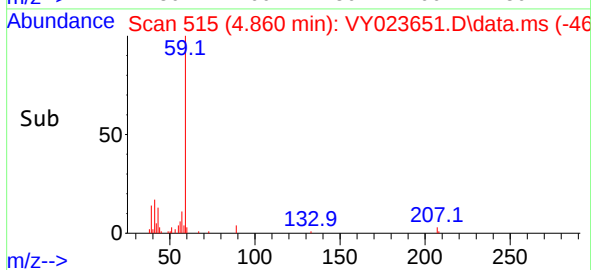
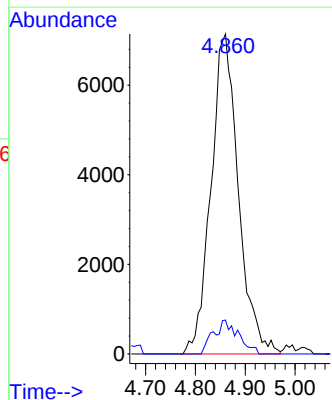
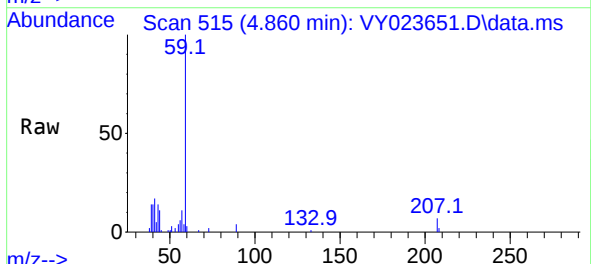


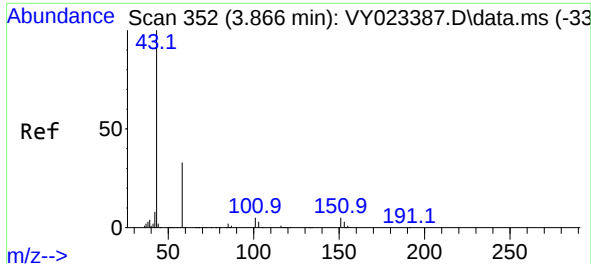
Tgt Ion:168 Resp: 718745  
Ion Ratio Lower Upper  
168 100  
99 49.9 39.7 59.5



#11  
Tert butyl alcohol  
Concen: 60.996 ug/l  
RT: 4.860 min Scan# 515  
Delta R.T. 0.000 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

Tgt Ion: 59 Resp: 27273  
Ion Ratio Lower Upper  
59 100  
57 9.6 8.3 12.5





#16

Acetone

Concen: 12.918 ug/l

RT: 3.879 min Scan# 31

Delta R.T. 0.012 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA\_Y

ClientSampleId :

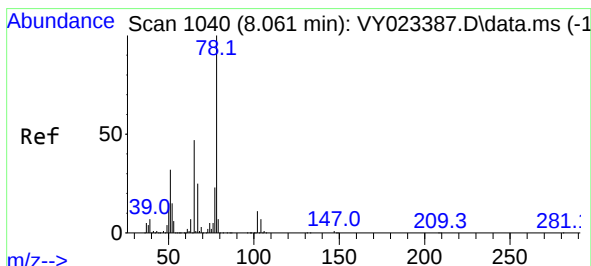
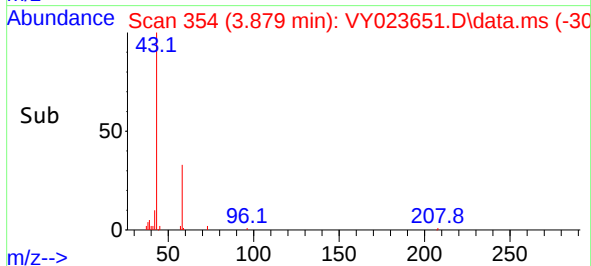
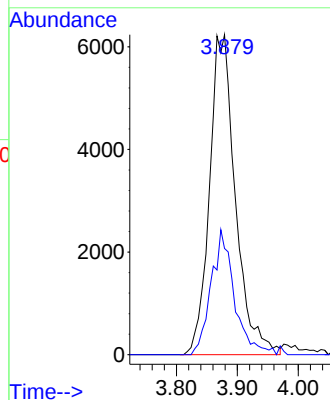
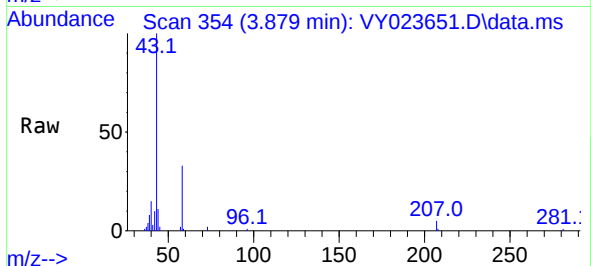
RBR251235RE

Tgt Ion: 43 Resp: 18484

Ion Ratio Lower Upper

43 100

58 33.2 27.7 41.5



#33

1,2-Dichloroethane-d4

Concen: 52.732 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY023651.D

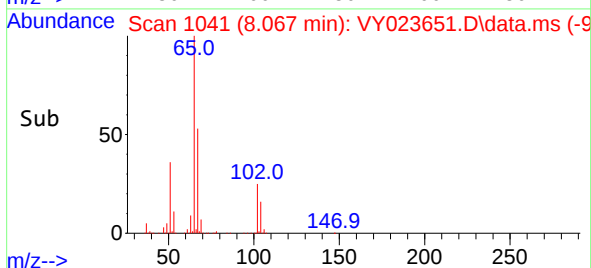
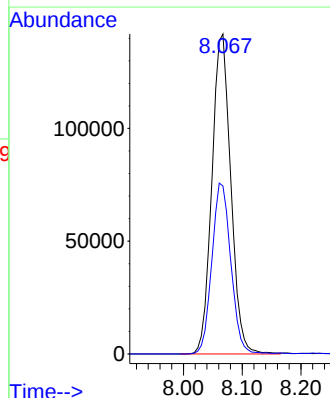
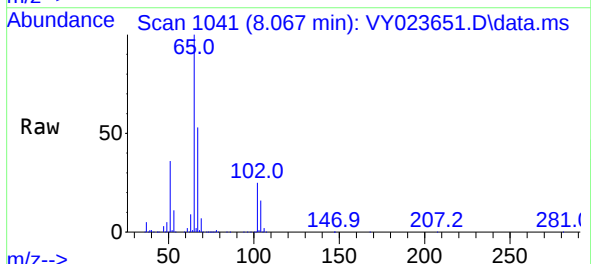
Acq: 03 Nov 2025 12:16

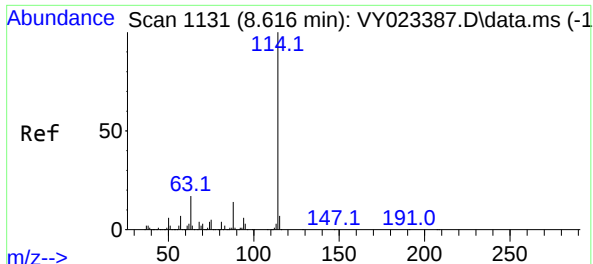
Tgt Ion: 65 Resp: 316931

Ion Ratio Lower Upper

65 100

67 53.5 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA\_Y

ClientSampleId :

RBR251235RE

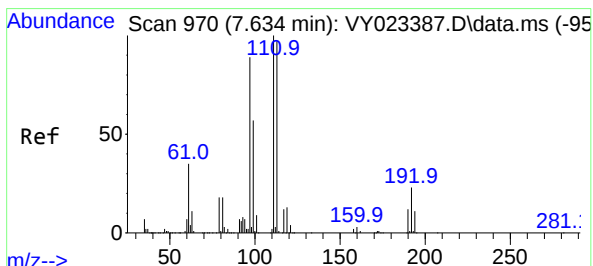
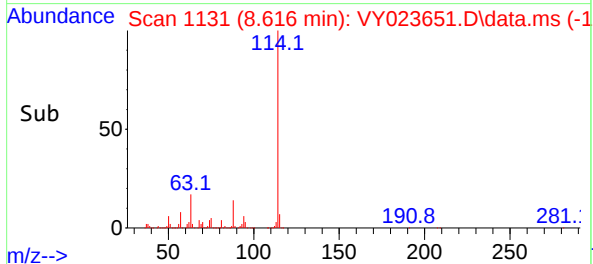
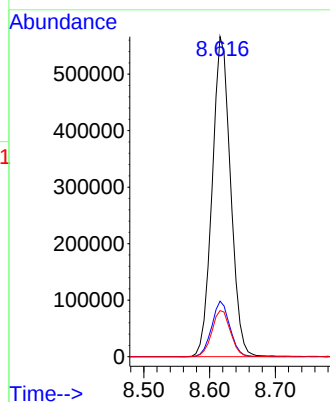
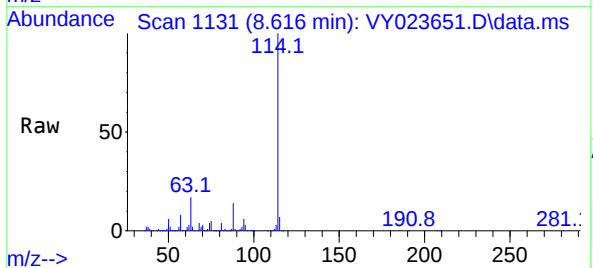
Tgt Ion:114 Resp: 1101215

Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.2

88 14.4 0.0 28.4



#35

Dibromofluoromethane

Concen: 53.033 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

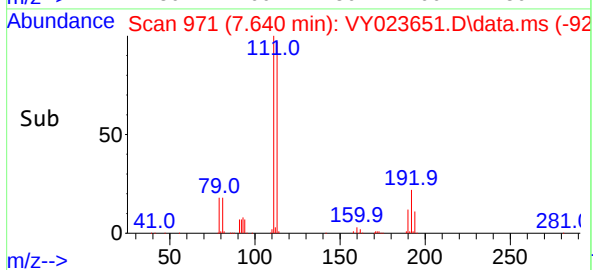
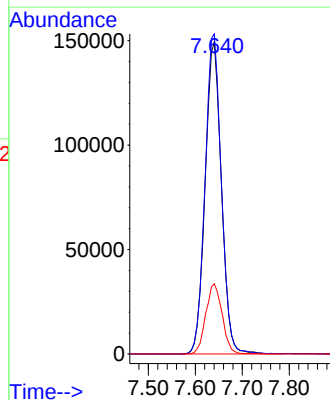
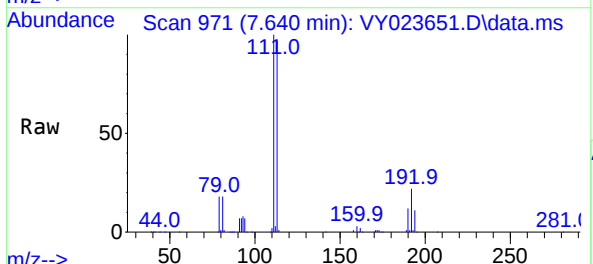
Tgt Ion:113 Resp: 358845

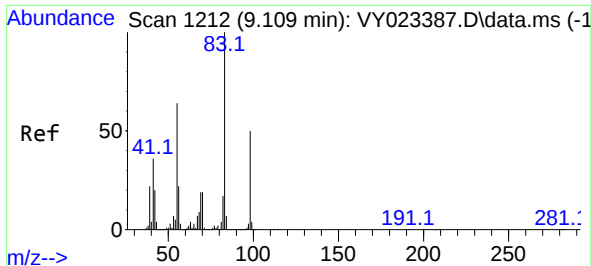
Ion Ratio Lower Upper

113 100

111 102.6 81.8 122.6

192 22.6 18.0 27.0

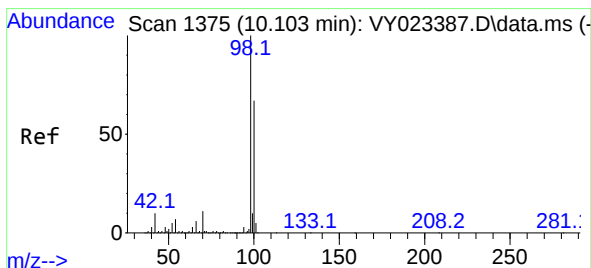
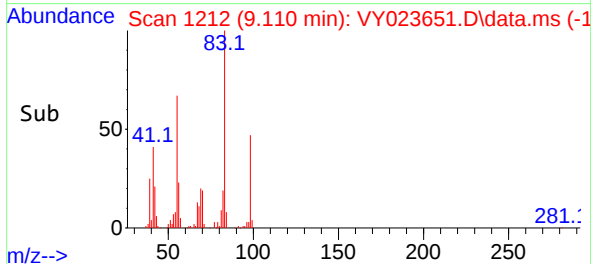
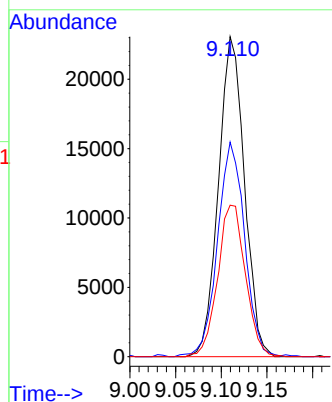
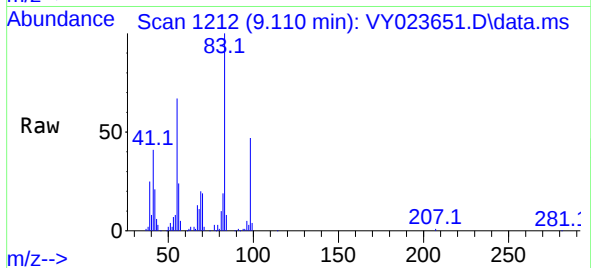




#39  
Methylcyclohexane  
Concen: 3.914 ug/l  
RT: 9.110 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

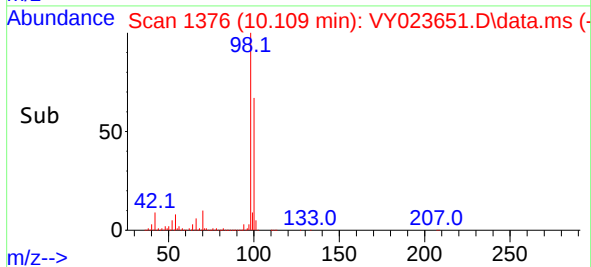
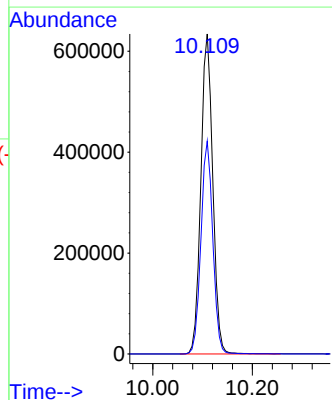
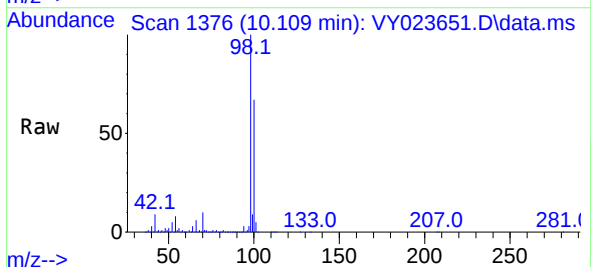
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR251235RE

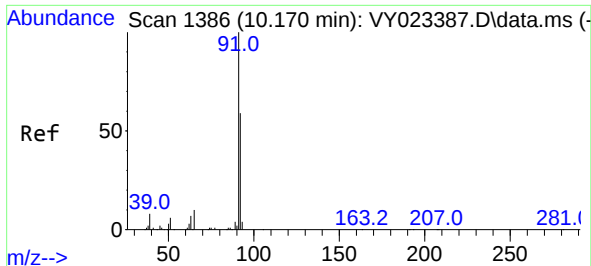
Tgt Ion: 83 Resp: 45657  
Ion Ratio Lower Upper  
83 100  
55 66.8 51.4 77.2  
98 47.3 40.4 60.6



#50  
Toluene-d8  
Concen: 41.718 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.006 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

Tgt Ion: 98 Resp: 1051260  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.0 79.4

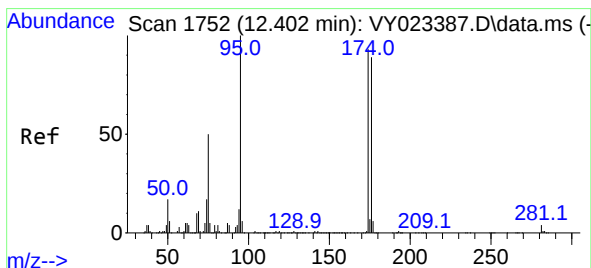
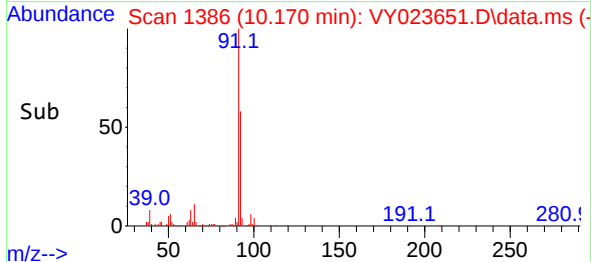
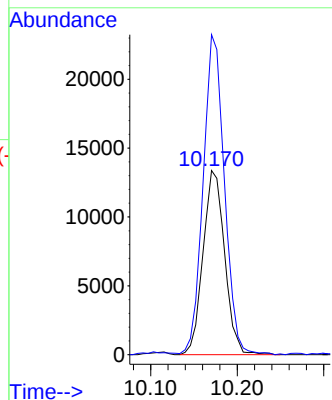
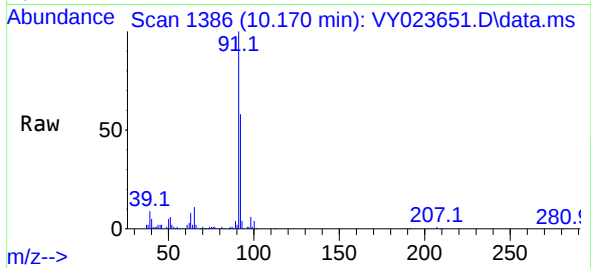




#52  
Toluene  
Concen: 1.262 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

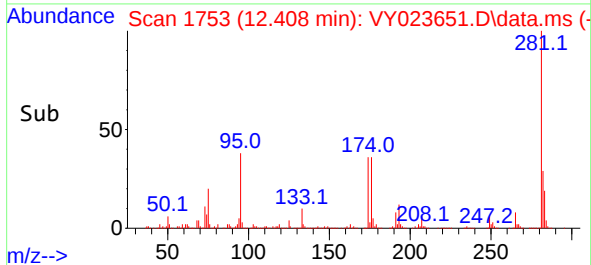
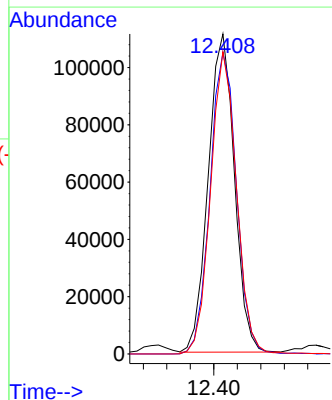
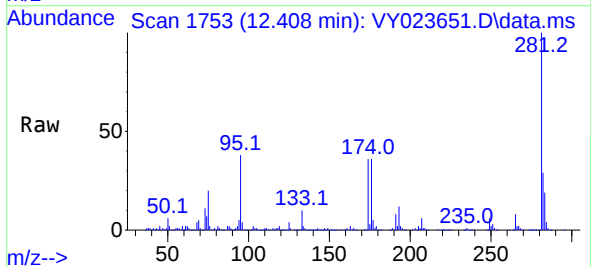
Instrument :  
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ClientSampleId :  
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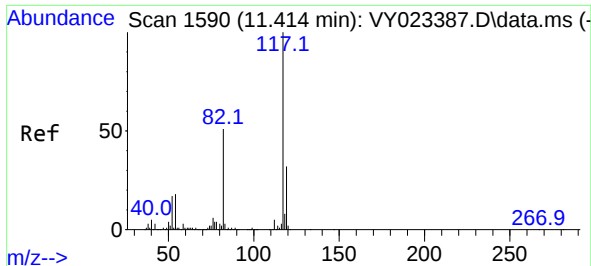
Tgt Ion: 92 Resp: 23241  
Ion Ratio Lower Upper  
92 100  
91 171.1 136.4 204.6



#62  
4-Bromofluorobenzene  
Concen: 20.616 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

Tgt Ion: 95 Resp: 171514  
Ion Ratio Lower Upper  
95 100  
174 95.9 0.0 192.8  
176 94.1 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.006 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA\_Y

ClientSampleId :

RBR251235RE

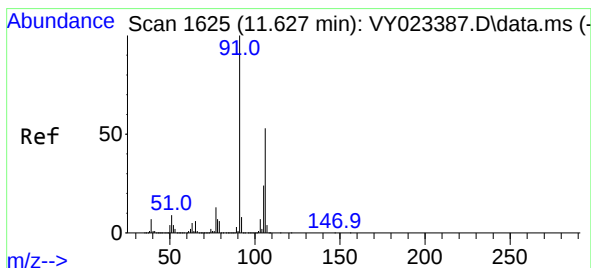
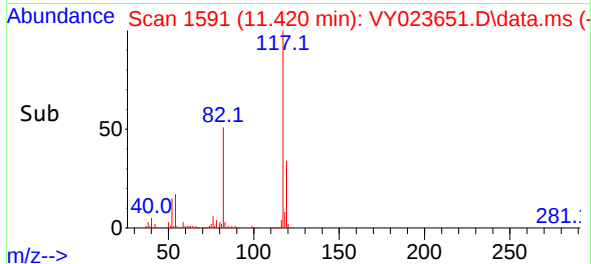
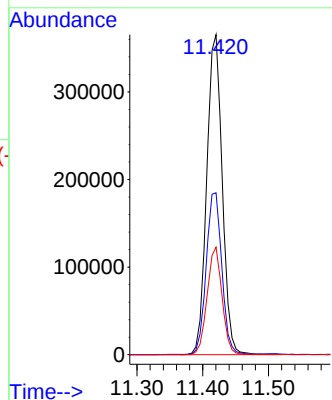
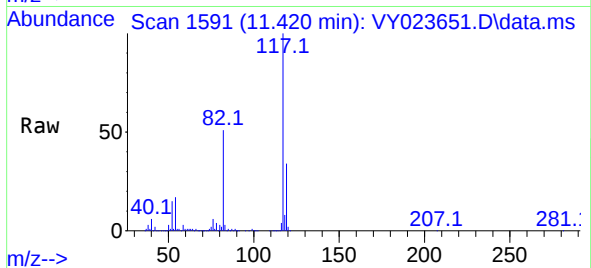
Tgt Ion:117 Resp: 599022

Ion Ratio Lower Upper

117 100

82 50.5 41.0 61.4

119 33.6 25.6 38.4



#68

m/p-Xylenes

Concen: 3.819 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY023651.D

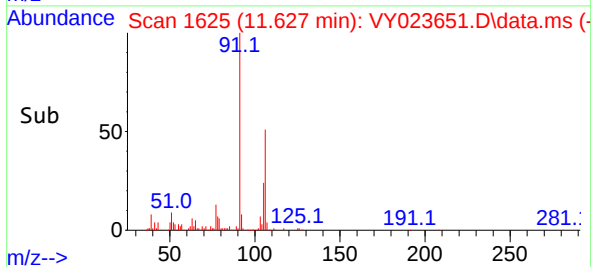
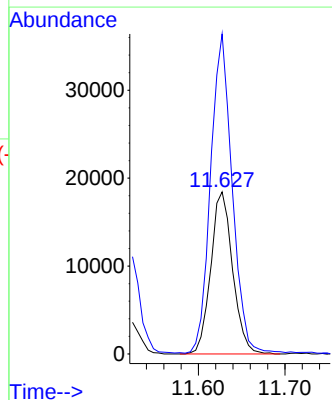
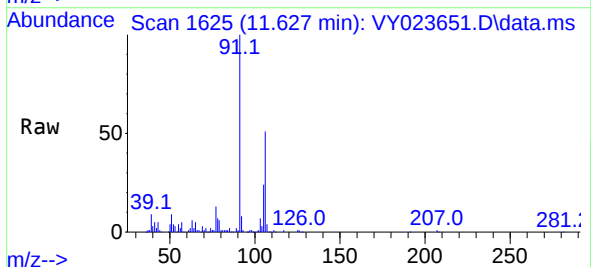
Acq: 03 Nov 2025 12:16

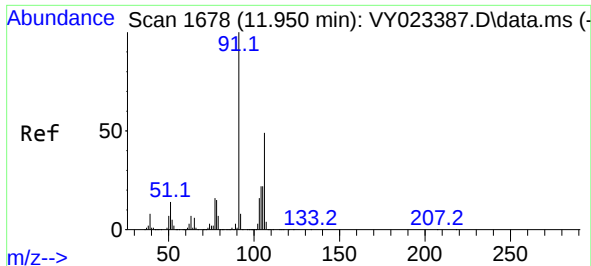
Tgt Ion:106 Resp: 32304

Ion Ratio Lower Upper

106 100

91 193.8 152.6 229.0

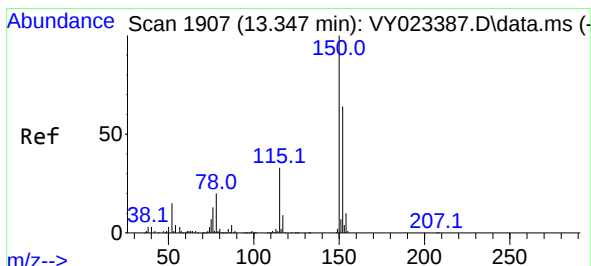
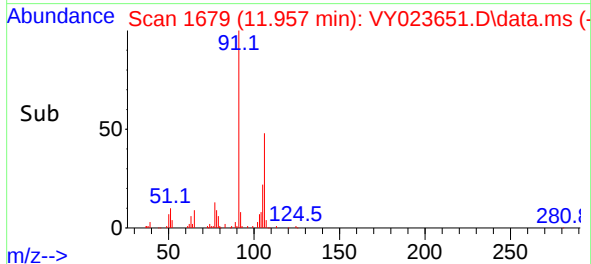
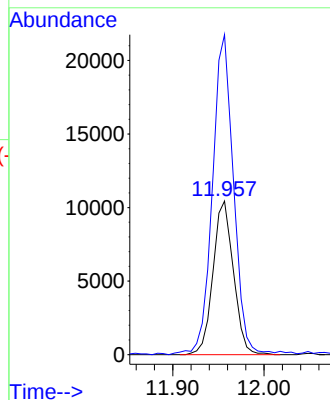
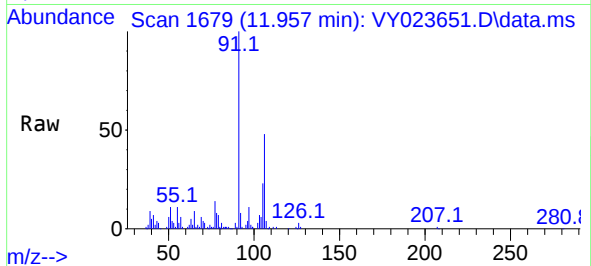




#69  
o-Xylene  
Concen: 2.042 ug/l  
RT: 11.957 min Scan# 1679  
Delta R.T. 0.006 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

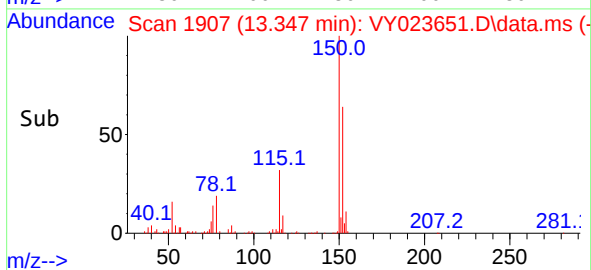
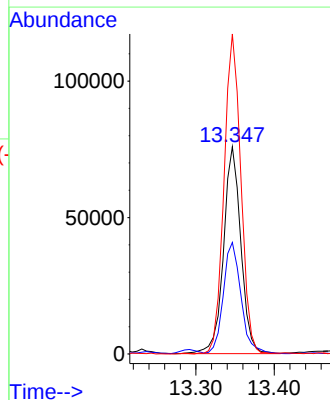
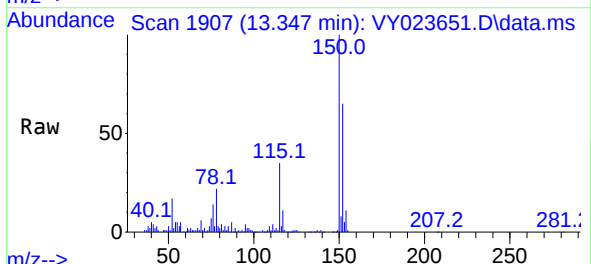
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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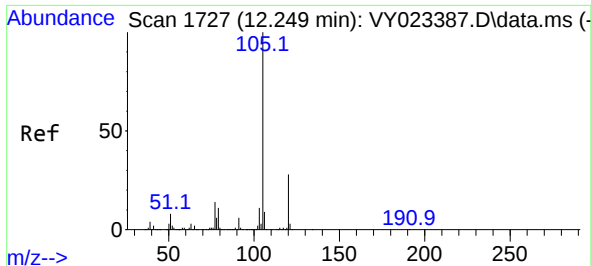
Tgt Ion:106 Resp: 16198  
Ion Ratio Lower Upper  
106 100  
91 215.0 101.4 304.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

Tgt Ion:152 Resp: 117035  
Ion Ratio Lower Upper  
152 100  
115 54.7 27.1 81.2  
150 150.3 0.0 347.4

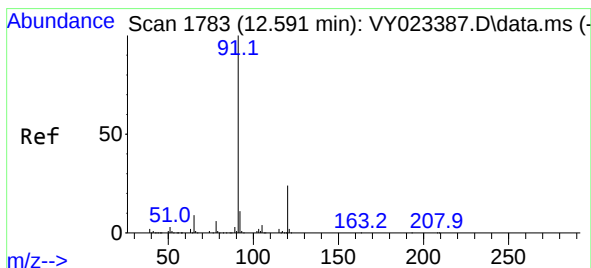
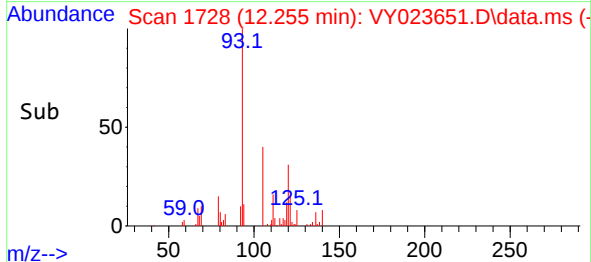
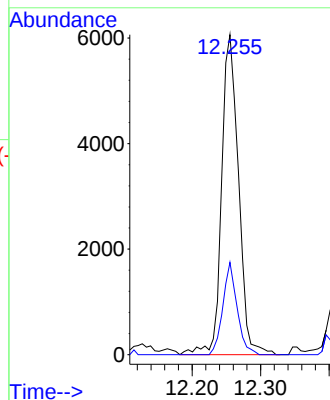
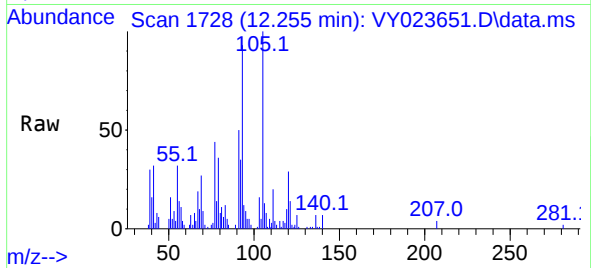




#73  
Isopropylbenzene  
Concen: 1.346 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.006 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

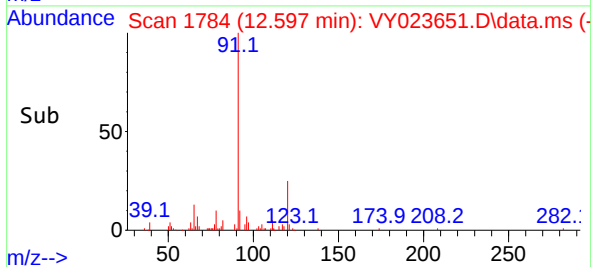
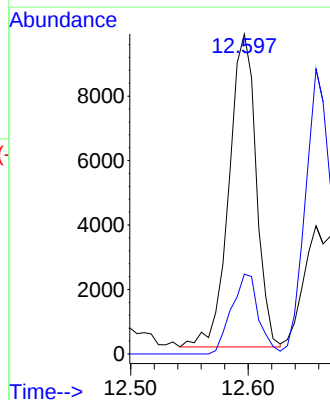
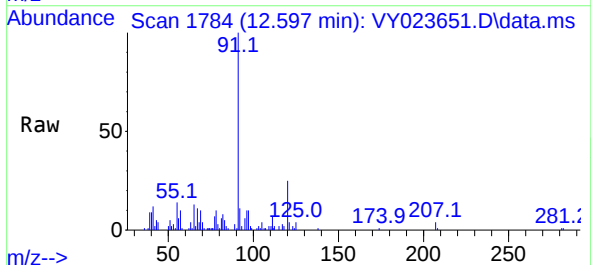
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR251235RE

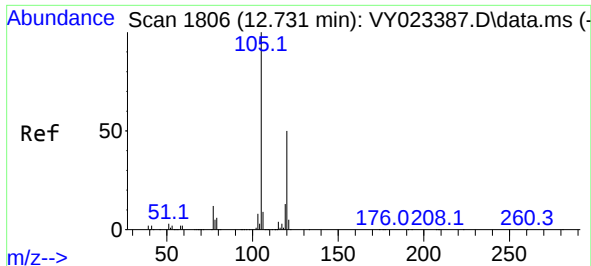
Tgt Ion:105 Resp: 10384  
Ion Ratio Lower Upper  
105 100  
120 24.2 13.9 41.7



#78  
n-propylbenzene  
Concen: 1.750 ug/l  
RT: 12.597 min Scan# 1784  
Delta R.T. 0.006 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

Tgt Ion: 91 Resp: 15615  
Ion Ratio Lower Upper  
91 100  
120 25.2 12.3 36.8

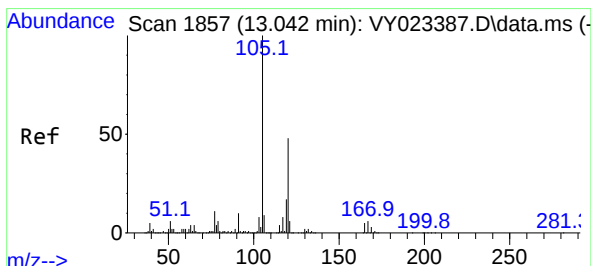
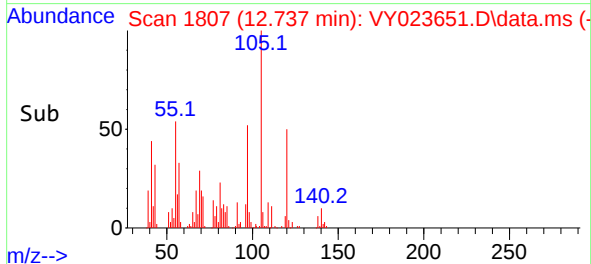
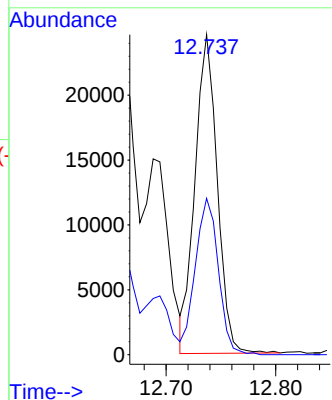
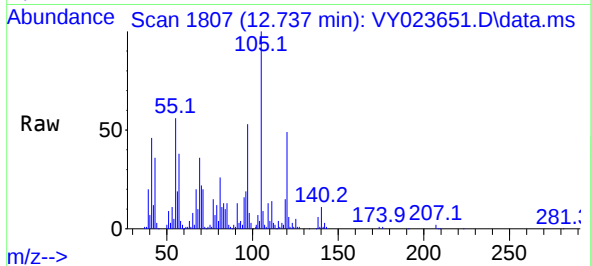




#80  
1,3,5-Trimethylbenzene  
Concen: 5.560 ug/l  
RT: 12.737 min Scan# 1806  
Delta R.T. 0.006 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

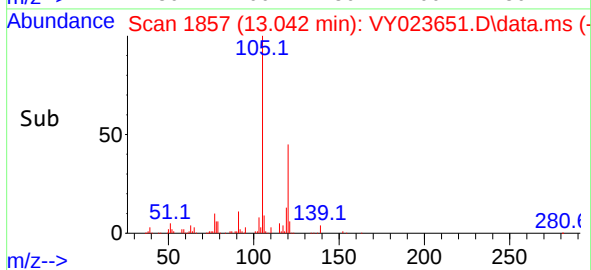
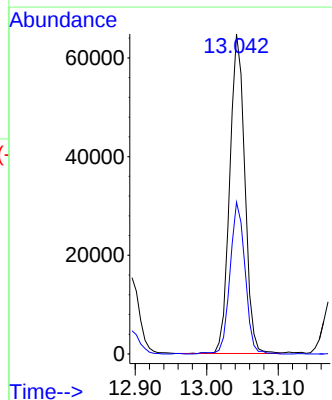
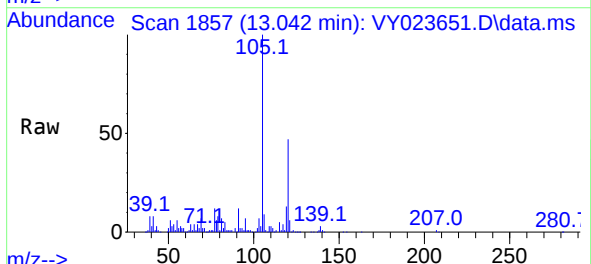
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR251235RE

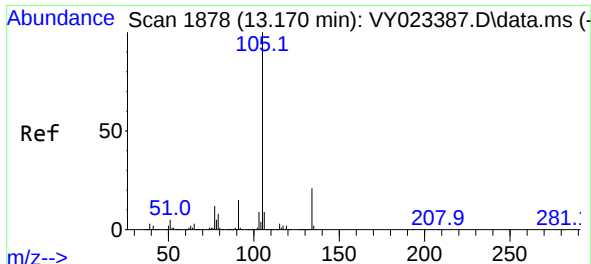
Tgt Ion:105 Resp: 34652  
Ion Ratio Lower Upper  
105 100  
120 50.9 25.4 76.4



#84  
1,2,4-Trimethylbenzene  
Concen: 15.210 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023651.D  
Acq: 03 Nov 2025 12:16

Tgt Ion:105 Resp: 94607  
Ion Ratio Lower Upper  
105 100  
120 47.4 23.8 71.2

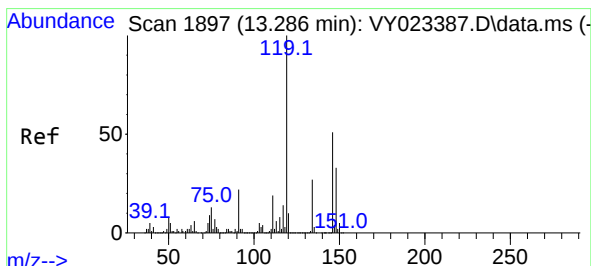
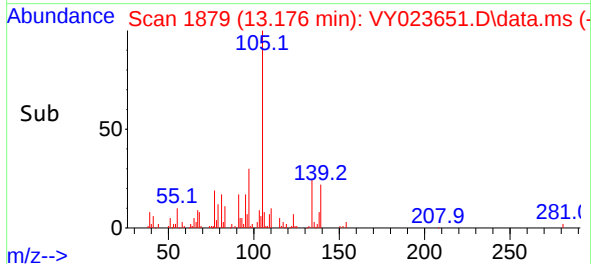
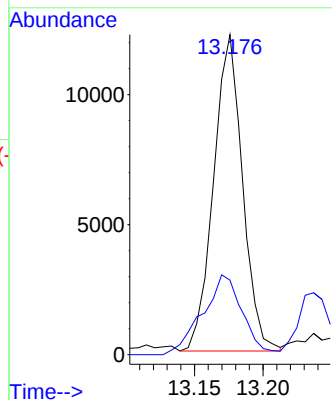
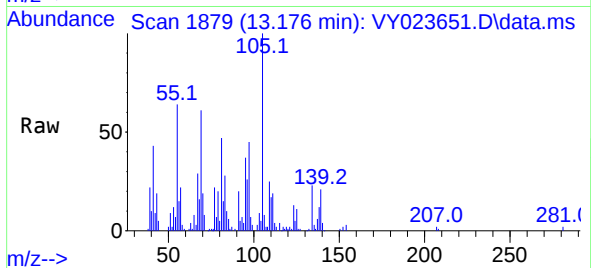




#85  
 sec-Butylbenzene  
 Concen: 2.165 ug/l  
 RT: 13.176 min Scan# 1878  
 Delta R.T. 0.006 min  
 Lab File: VY023651.D  
 Acq: 03 Nov 2025 12:16

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RBR251235RE

Tgt Ion:105 Resp: 17870  
 Ion Ratio Lower Upper  
 105 100  
 134 34.7 10.7 32.1#



#86  
 p-Isopropyltoluene  
 Concen: 4.568 ug/l  
 RT: 13.292 min Scan# 1898  
 Delta R.T. 0.006 min  
 Lab File: VY023651.D  
 Acq: 03 Nov 2025 12:16

Tgt Ion:119 Resp: 32105  
 Ion Ratio Lower Upper  
 119 100  
 134 27.4 13.6 40.7  
 91 22.2 10.9 32.9

