

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY032520\  
 Data File : VY002078.D  
 Acq On : 25 Mar 2020 19:28  
 Operator : SY/MD  
 Sample : L2042-02  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Mar 26 06:37:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

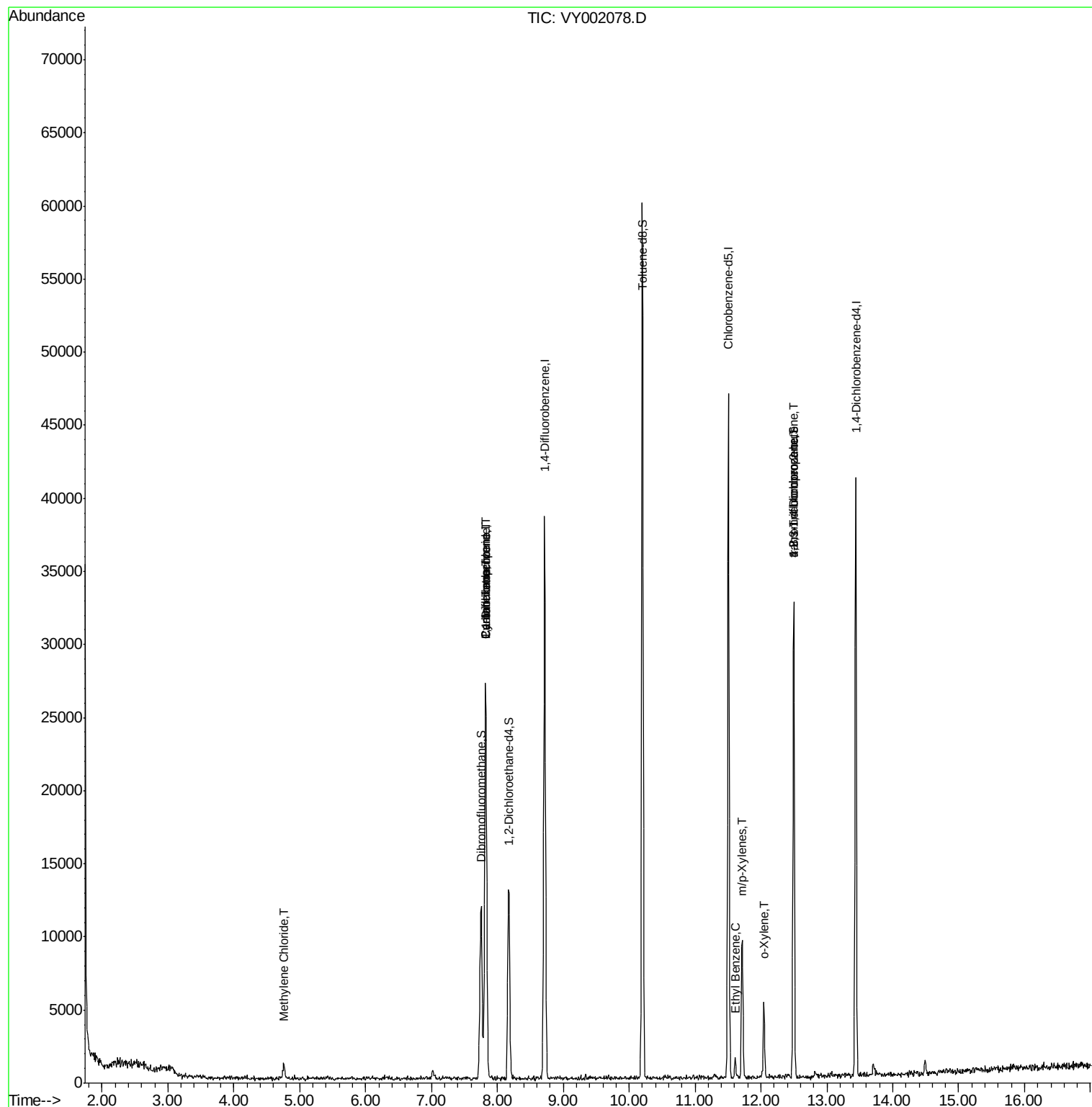
| Internal Standards             | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.82   | 168  | 19388    | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.72   | 114  | 32057    | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.51  | 117  | 25470    | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.44  | 152  | 10155    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.17   | 65   | 9815     | 47.42  | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =      | 94.84%  |          |
| 35) Dibromofluoromethane       | 7.75   | 113  | 8544     | 48.81  | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =      | 97.62%  |          |
| 50) Toluene-d8                 | 10.20  | 98   | 38357    | 51.96  | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =      | 103.92% |          |
| 62) 4-Bromofluorobenzene       | 12.50  | 95   | 10504    | 40.93  | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =      | 81.86%  |          |
| Target Compounds               |        |      |          |        |         |          |
|                                |        |      |          |        | Qvalue  |          |
| 20) Methylene Chloride         | 4.77   | 84   | 577      | 2.233  | ug/l #  | 86       |
| 31) Cyclohexane                | 7.82   | 56   | 550      | 1.209  | ug/l #  | 5        |
| 36) 1,1-Dichloropropene        | 7.82   | 75   | 1875     | 6.078  | ug/l #  | 47       |
| 38) Carbon Tetrachloride       | 7.82   | 117  | 2030     | 7.703  | ug/l #  | 12       |
| 67) Ethyl Benzene              | 11.61  | 91   | 1290     | 1.363  | ug/l    | 100      |
| 68) m/p-Xylenes                | 11.72  | 106  | 2925     | 8.359  | ug/l    | 100      |
| 69) o-Xylene                   | 12.05  | 106  | 1291     | 3.914  | ug/l    | 91       |
| 76) 1,2,3-Trichloropropane     | 12.50  | 75   | 5558     | 46.126 | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.50  | 75   | 5558     | 93.172 | ug/l #  | 17       |

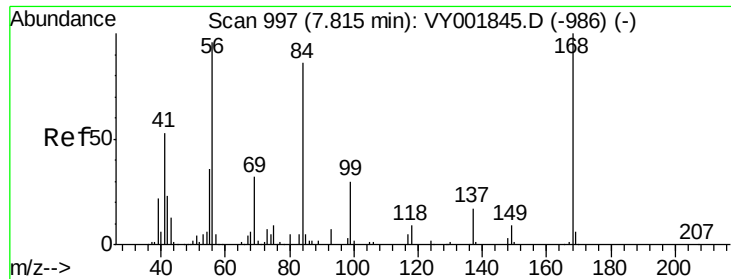
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY032520\  
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MSVOA\_Y  
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Quant Time: Mar 26 06:37:42 2020  
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Quant Title : SW846 8260  
QLast Update : Thu Mar 05 04:05:33 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

Instrument :

MSVOA\_Y

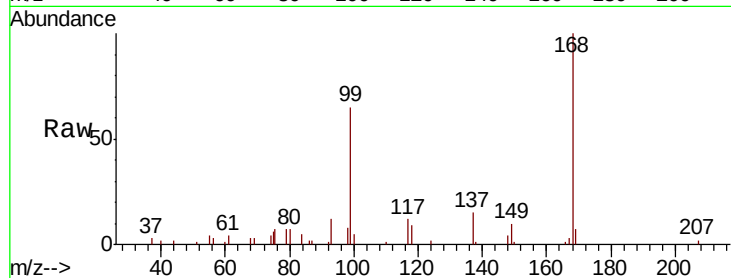
ClientSampleId :

Tot Ion:168 Resp: 19388

Ion Ratio Lower Upper

168 100

99 64.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)

7.82

8000

6000

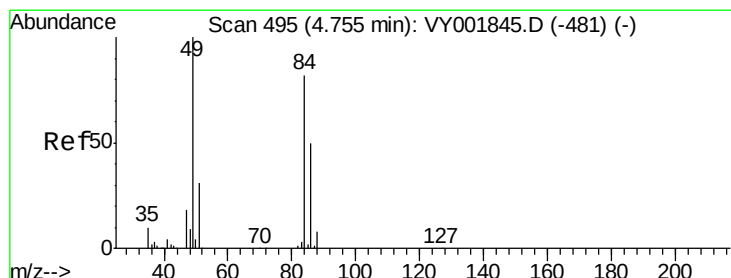
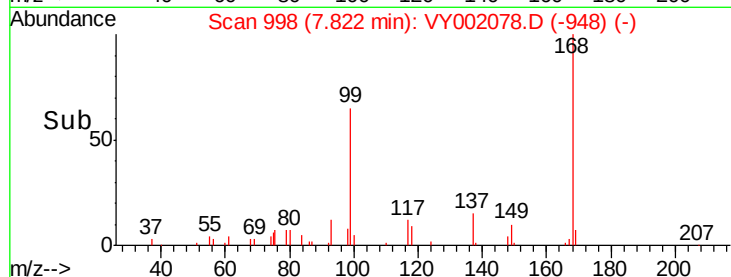
4000

2000

0

Time-->

7.75 7.80 7.85 7.90



#20

Methylene Chloride

Concen: 2.233 ug/l

RT: 4.77 min Scan# 497

Delta R.T. 0.01 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

Tgt Ion: 84 Resp: 577

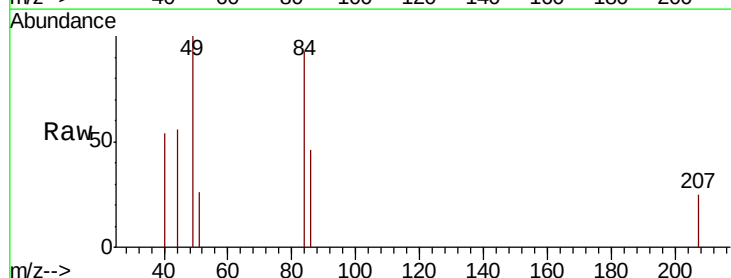
Ion Ratio Lower Upper

84 100

49 107.5 98.2 147.2

51 27.5 30.2 45.2#

86 49.8 48.9 73.3



Abundance Ion 83.90 (83.60 to 84.60): VY001845.D (-481) (-)

Ion 48.90 (48.60 to 49.60): VY001845.D (-481) (-)

Ion 50.90 (50.60 to 51.60): VY001845.D (-481) (-)

Ion 85.90 (85.60 to 86.60): VY001845.D (-481) (-)

4.77

500

400

300

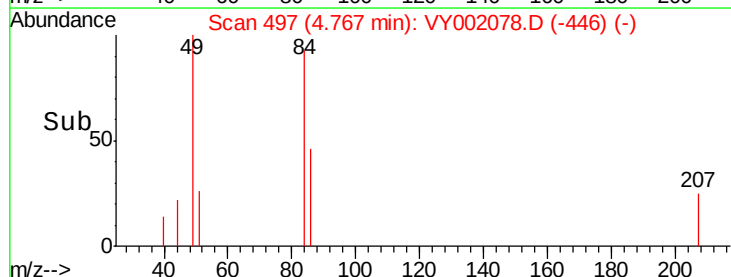
200

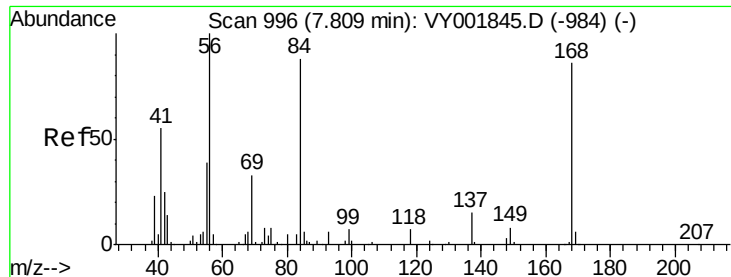
100

0

Time-->

4.70 4.75 4.80

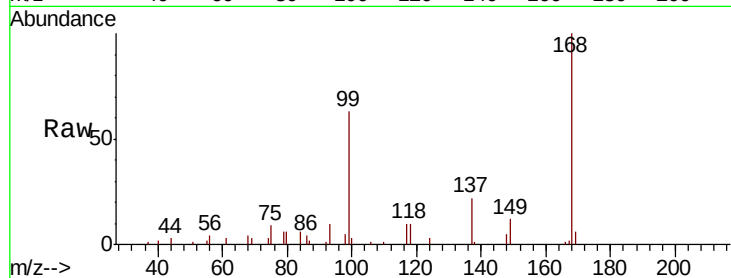




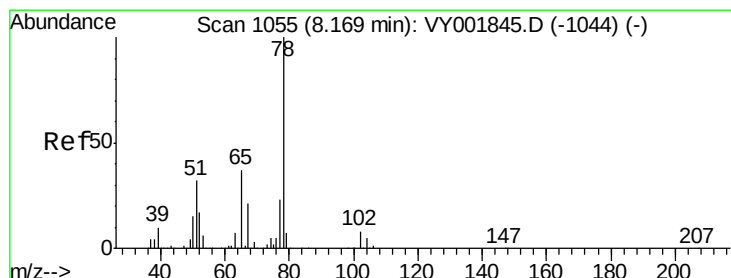
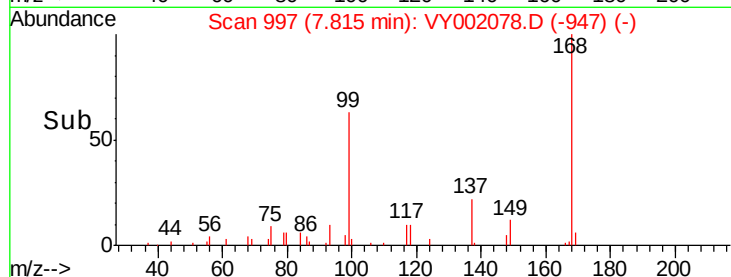
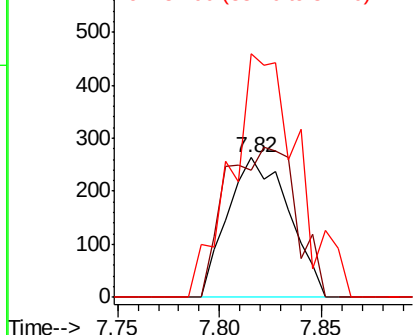
#31  
Cyclohexane  
Concen: 1.209 ug/l  
RT: 7.82 min Scan# 997  
Delta R.T. 0.01 min  
Lab File: VY002078.D  
Acq: 25 Mar 2020 19:28

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 56 Resp: 550  
Ion Ratio Lower Upper  
56 100  
69 90.9 26.7 40.1#  
84 174.5 70.4 105.6#

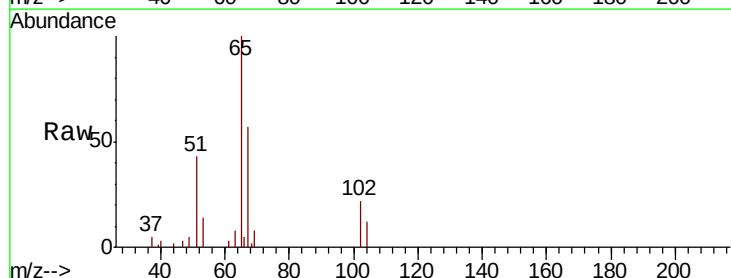


Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

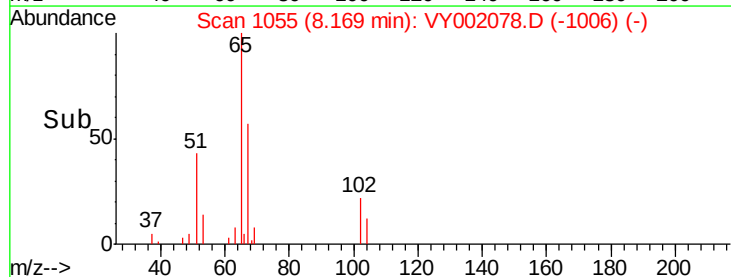
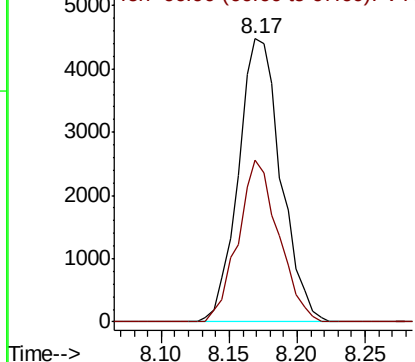


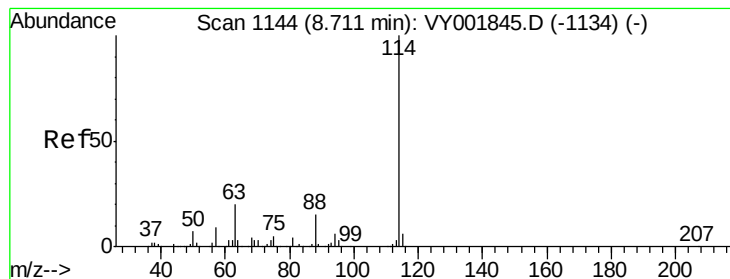
#33  
1,2-Dichloroethane-d4  
Concen: 47.420 ug/l  
RT: 8.17 min Scan# 1055  
Delta R.T. 0.00 min  
Lab File: VY002078.D  
Acq: 25 Mar 2020 19:28

Tgt Ion: 65 Resp: 9815  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.72 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

Instrument :

MSVOA\_Y

ClientSampleId :

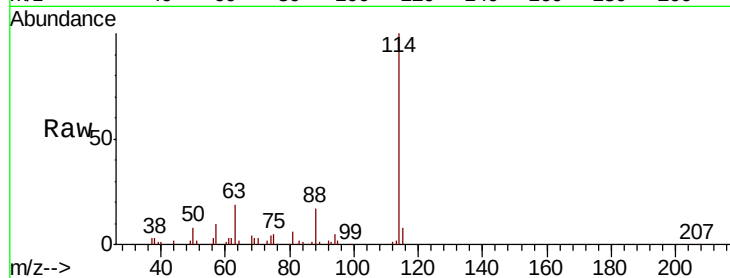
Tot Ion:114 Resp: 32057

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.4

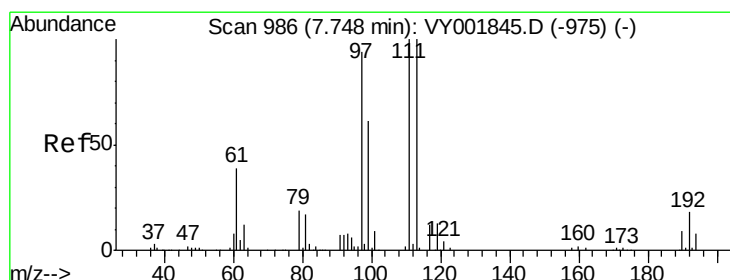
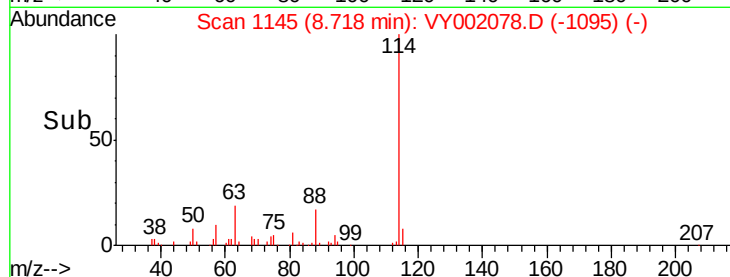
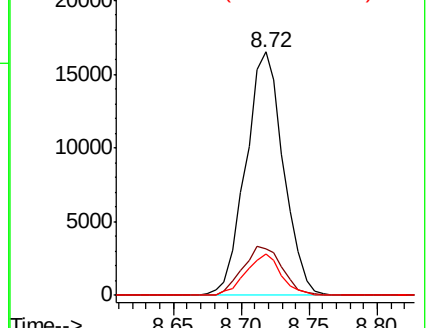
88 16.9 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 48.810 ug/l

RT: 7.75 min Scan# 987

Delta R.T. 0.01 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

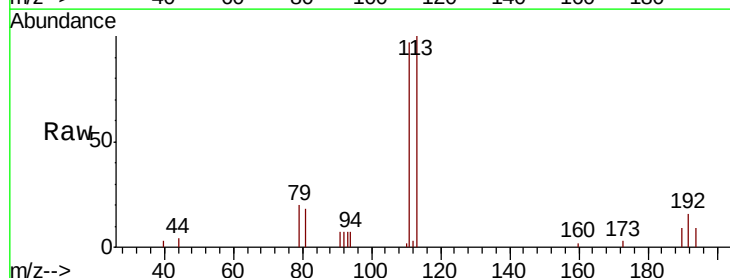
Tgt Ion:113 Resp: 8544

Ion Ratio Lower Upper

113 100

111 100.8 81.8 122.8

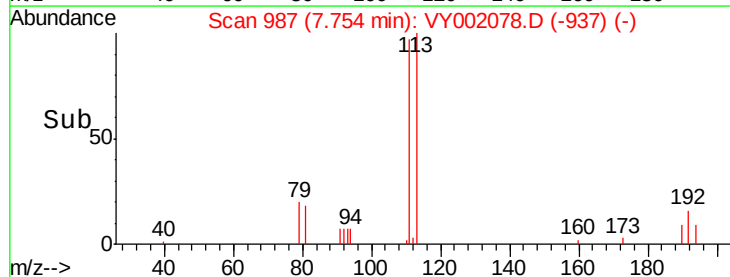
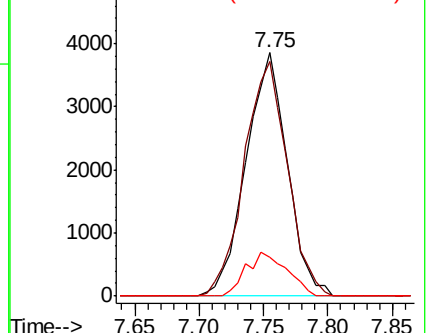
192 17.8 14.2 21.2

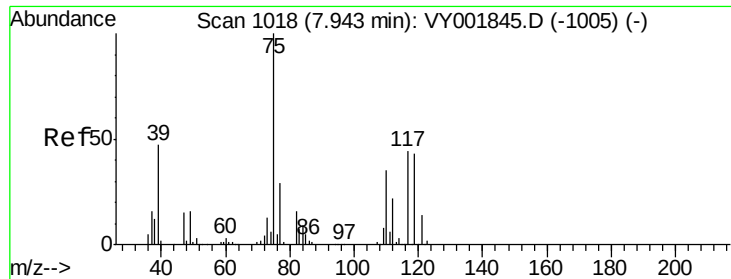


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.078 ug/l

RT: 7.82 min Scan# 998

Delta R.T. -0.12 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

Instrument :

MSVOA\_Y

ClientSampled :

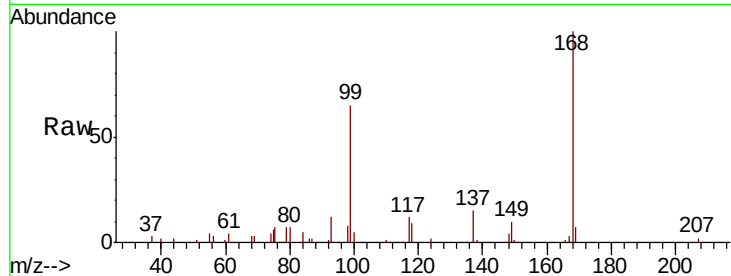
Tot Ion: 75 Resp: 1875

Ion Ratio Lower Upper

75 100

110 5.2 17.4 52.2#

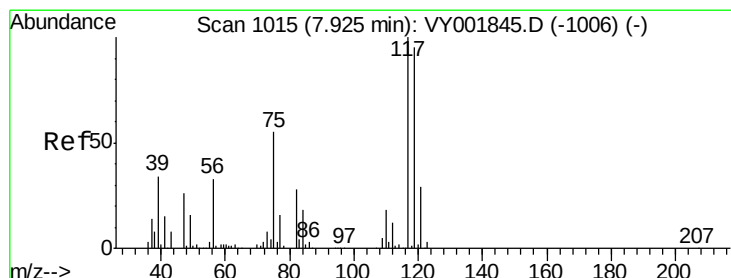
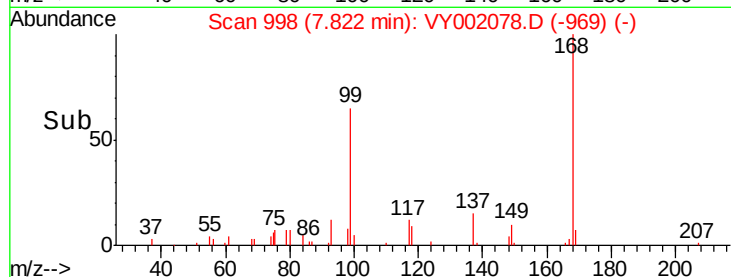
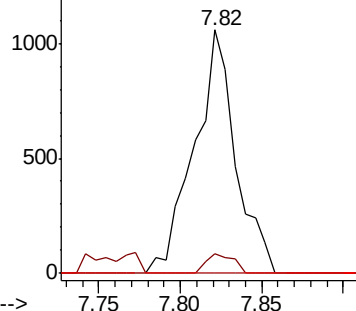
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VY001845.D (-1005) (-)

Ion 109.90 (109.60 to 110.60): VY001845.D (-1005) (-)

Ion 76.90 (76.60 to 77.60): VY001845.D (-1005) (-)



#38

Carbon Tetrachloride

Concen: 7.703 ug/l

RT: 7.82 min Scan# 998

Delta R.T. -0.10 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

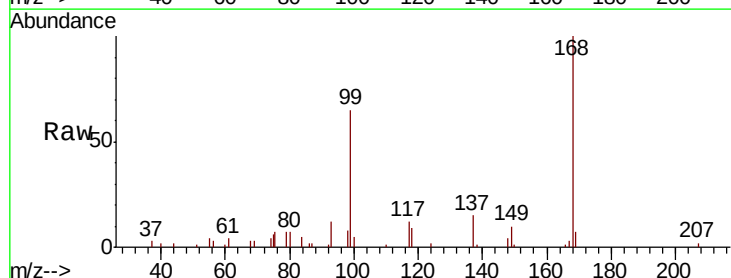
Tgt Ion: 117 Resp: 2030

Ion Ratio Lower Upper

117 100

119 0.0 76.3 114.5#

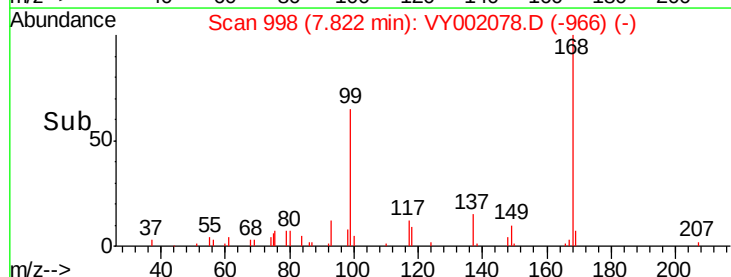
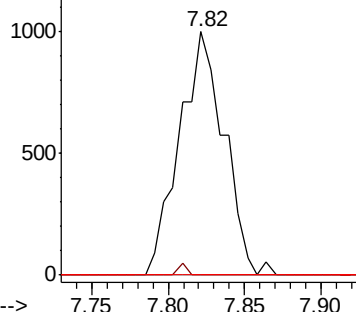
121 0.0 23.5 35.3#

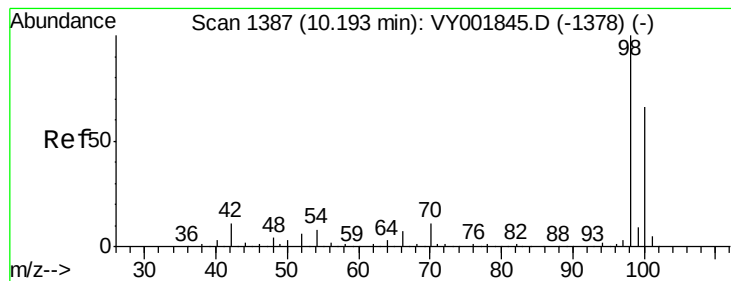


Abundance Ion 116.80 (116.50 to 117.50): VY001845.D (-1006) (-)

Ion 118.80 (118.50 to 119.50): VY001845.D (-1006) (-)

Ion 120.80 (120.50 to 121.50): VY001845.D (-1006) (-)





#50

Toluene-d8

Concen: 51.965 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

Instrument :

MSVOA\_Y

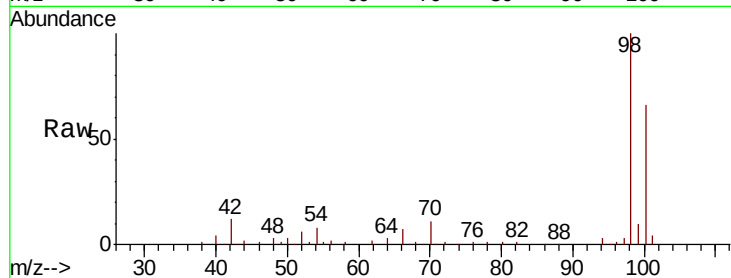
ClientSampled :

Tot Ion: 98 Resp: 38357

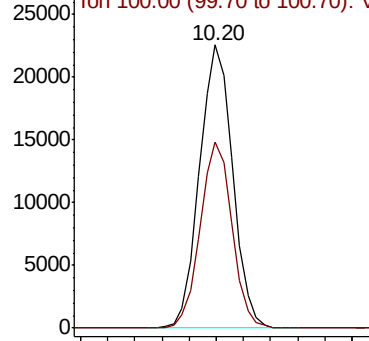
Ion Ratio Lower Upper

98 100

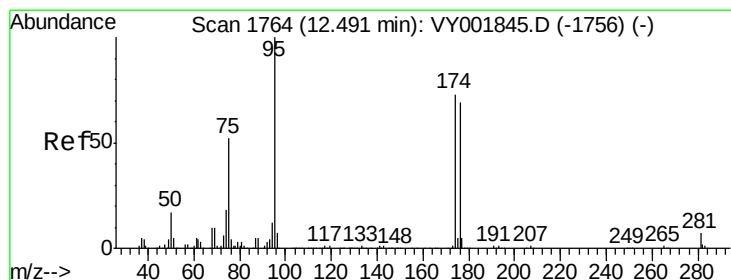
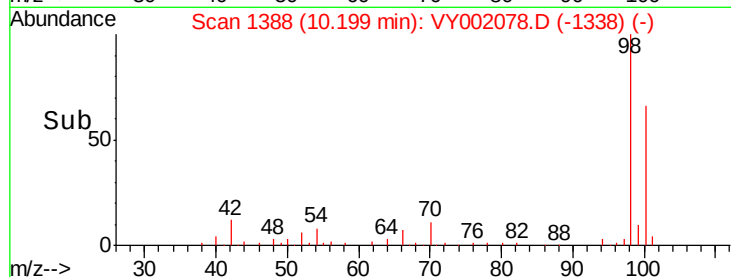
100 63.3 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY001845.D (-1378) (-)



Time-->



#62

4-Bromofluorobenzene

Concen: 40.926 ug/l

RT: 12.50 min Scan# 1765

Delta R.T. 0.01 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

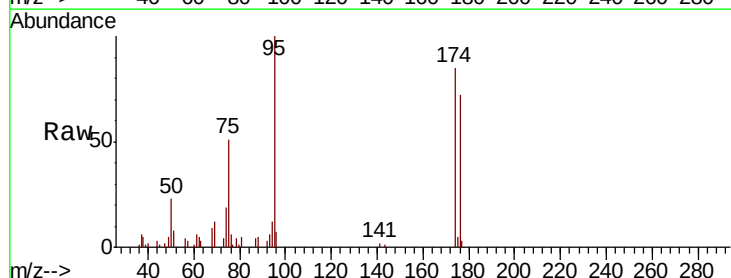
Tgt Ion: 95 Resp: 10504

Ion Ratio Lower Upper

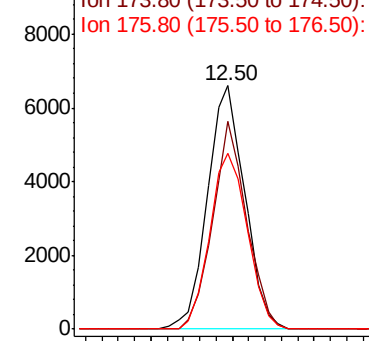
95 100

174 77.6 0.0 145.0

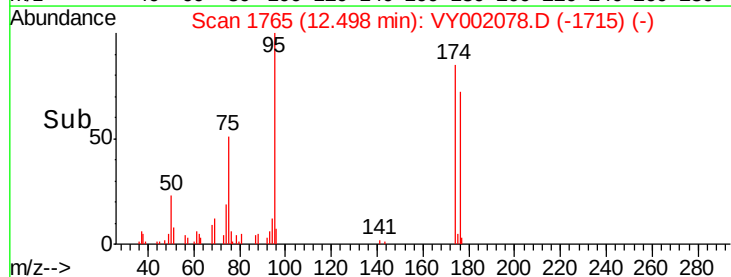
176 72.7 0.0 137.4

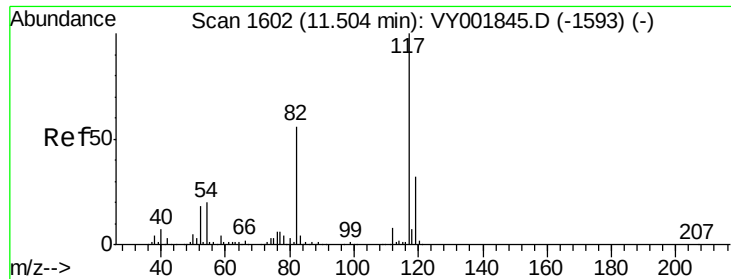


Abundance Ion 94.90 (94.60 to 95.60): VY001845.D (-1756) (-)



Time-->

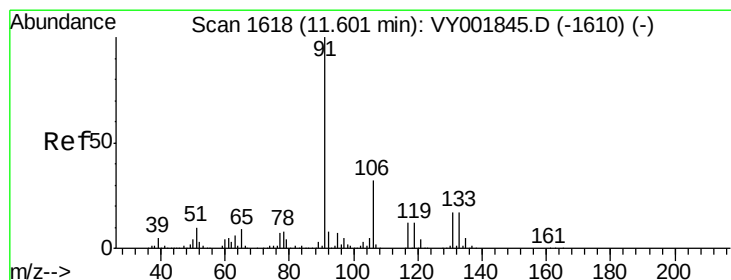
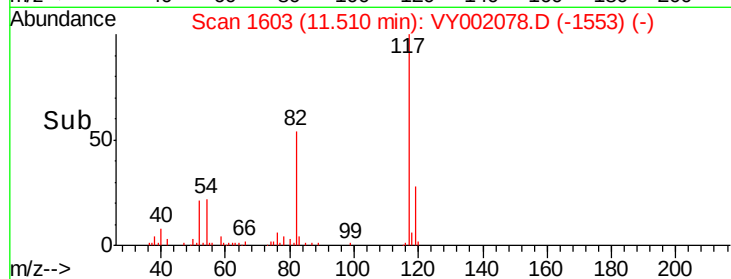
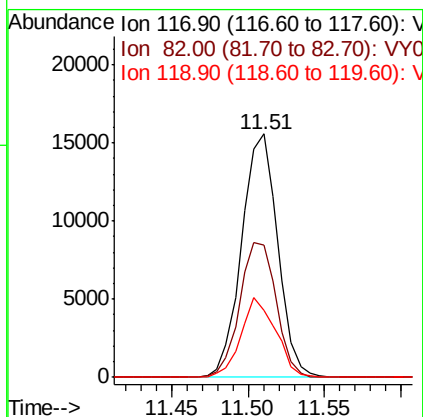
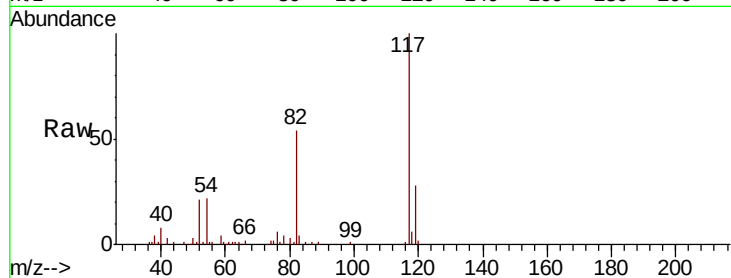




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.51 min Scan# 1603  
Delta R.T. 0.01 min  
Lab File: VY002078.D  
Acq: 25 Mar 2020 19:28

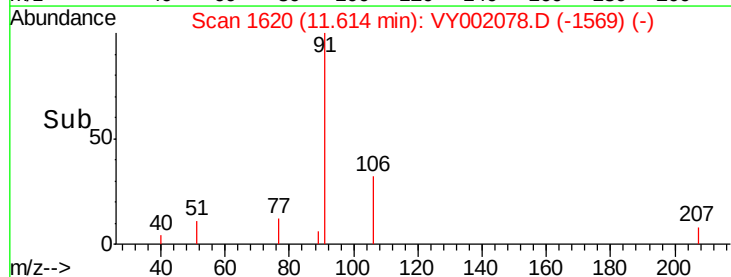
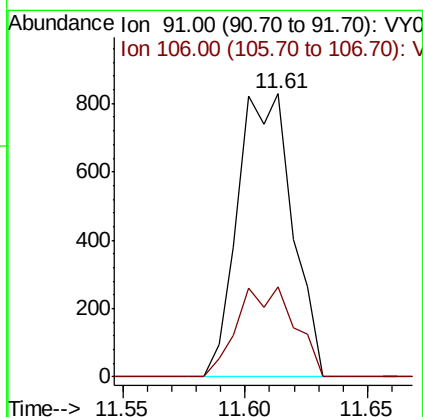
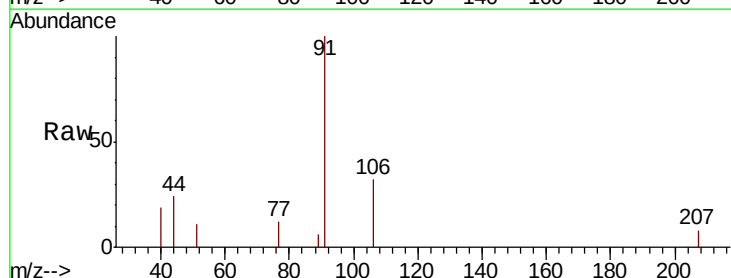
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:117 Resp: 25470  
Ion Ratio Lower Upper  
117 100  
82 54.4 44.5 66.7  
119 27.6 25.7 38.5

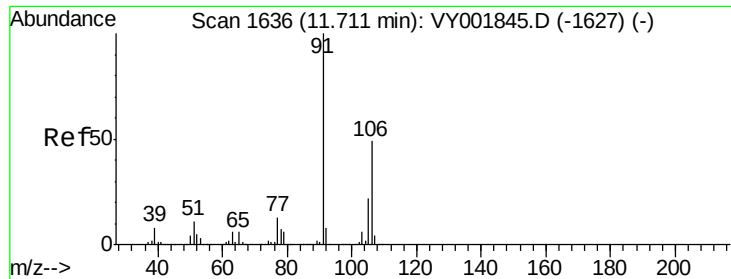


#67  
Ethyl Benzene  
Concen: 1.363 ug/l  
RT: 11.61 min Scan# 1620  
Delta R.T. 0.01 min  
Lab File: VY002078.D  
Acq: 25 Mar 2020 19:28

Tgt Ion: 91 Resp: 1290  
Ion Ratio Lower Upper  
91 100  
106 31.8 25.4 38.2



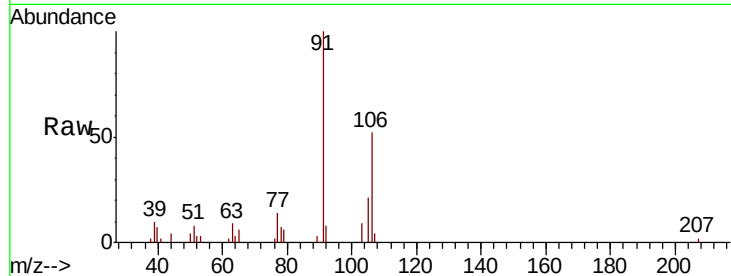




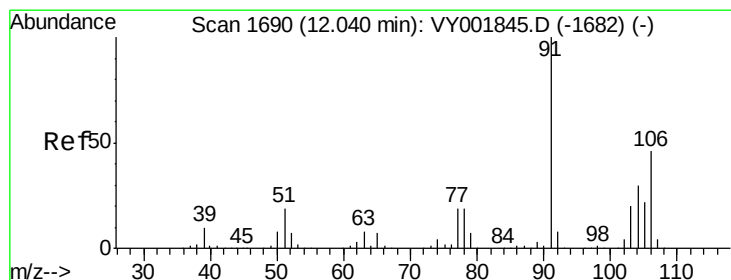
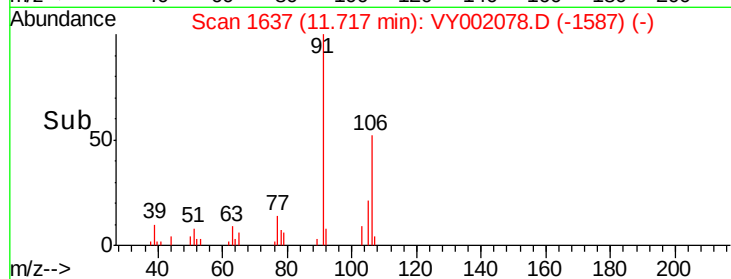
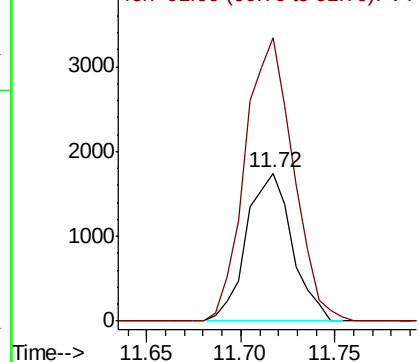
#68  
m/p-Xylenes  
Concen: 8.359 ug/l  
RT: 11.72 min Scan# 1637  
Delta R.T. 0.01 min  
Lab File: VY002078.D  
Acq: 25 Mar 2020 19:28

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:106 Resp: 2925  
Ion Ratio Lower Upper  
106 100  
91 201.8 161.3 241.9

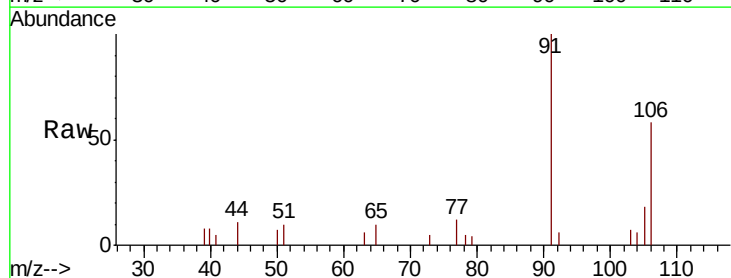


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VY0

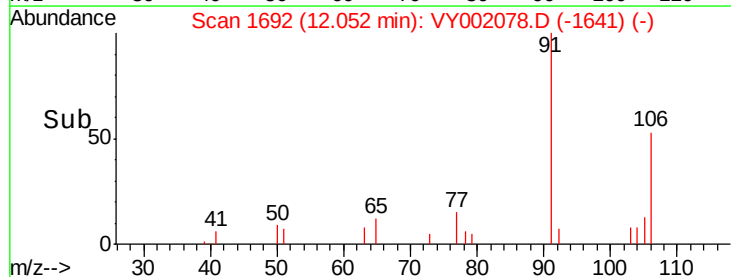
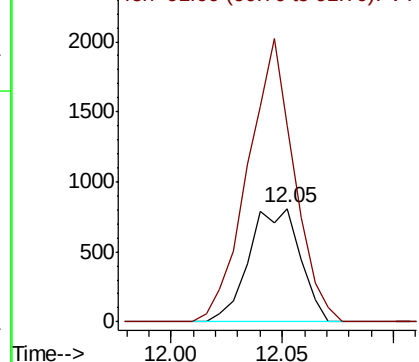


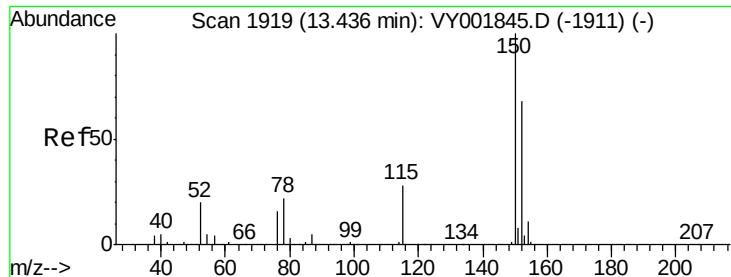
#69  
o-Xylene  
Concen: 3.914 ug/l  
RT: 12.05 min Scan# 1692  
Delta R.T. 0.01 min  
Lab File: VY002078.D  
Acq: 25 Mar 2020 19:28

Tgt Ion:106 Resp: 1291  
Ion Ratio Lower Upper  
106 100  
91 227.3 106.8 320.4



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VY0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

Instrument :

MSVOA\_Y

ClientSampled :

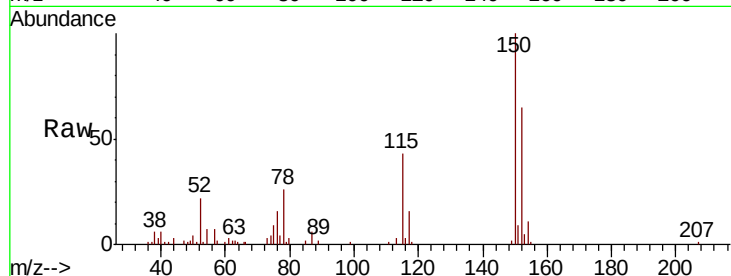
Tot Ion:152 Resp: 10155

Ion Ratio Lower Upper

152 100

115 67.0 29.9 89.7

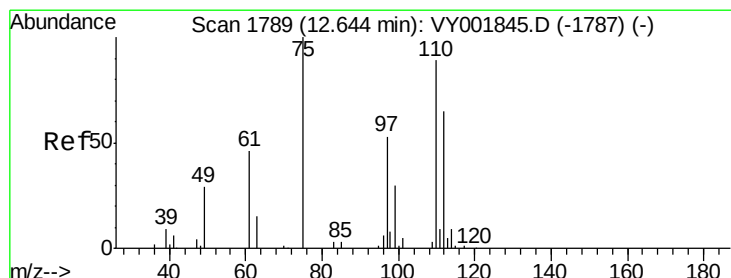
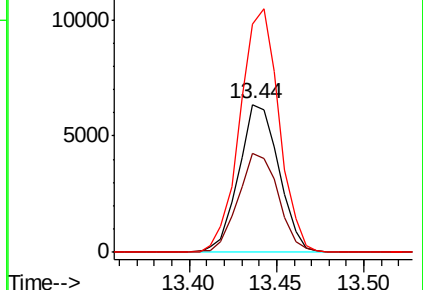
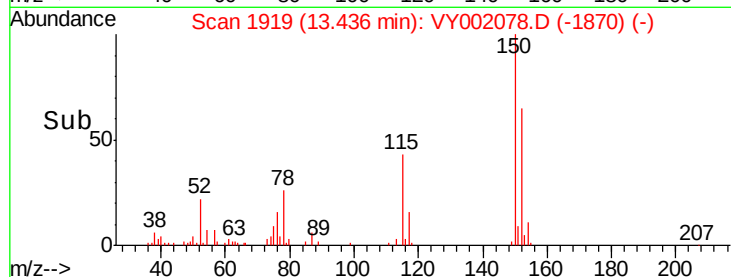
150 159.7 0.0 340.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 46.126 ug/l

RT: 12.50 min Scan# 1765

Delta R.T. -0.15 min

Lab File: VY002078.D

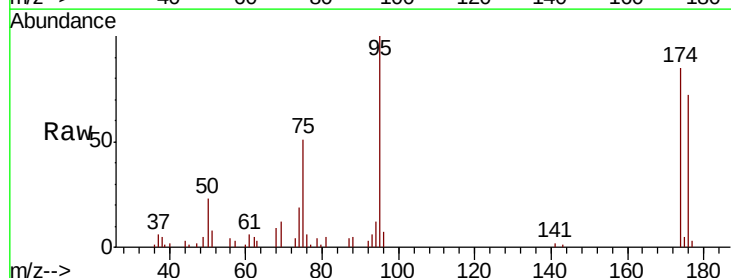
Acq: 25 Mar 2020 19:28

Tgt Ion: 75 Resp: 5558

Ion Ratio Lower Upper

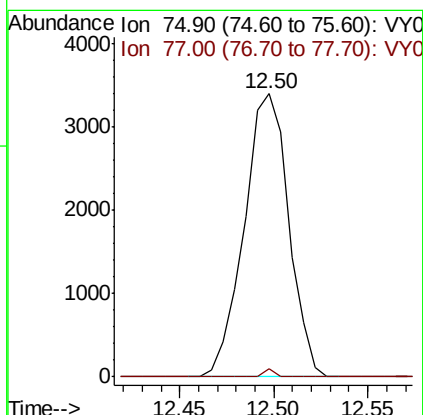
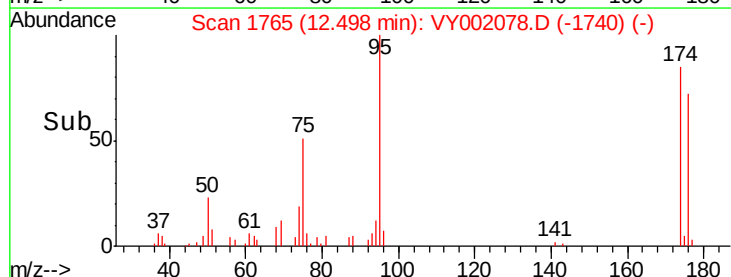
75 100

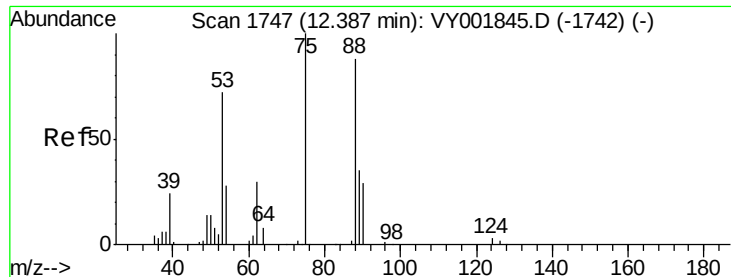
77 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 93.172 ug/l

RT: 12.50 min Scan# 1765

Delta R.T. 0.11 min

Lab File: VY002078.D

Acq: 25 Mar 2020 19:28

Instrument :

MSVOA\_Y

ClientSampleId :

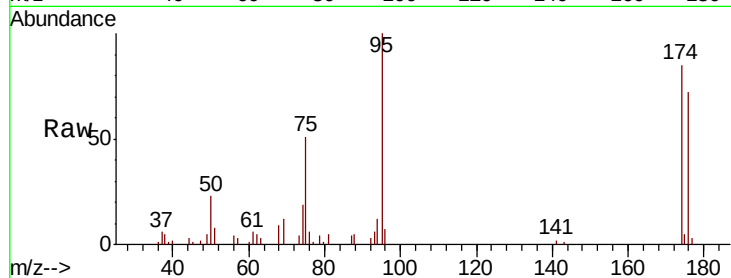
Tot Ion: 75 Resp: 5558

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

