

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012220\  
 Data File : VY001341.D  
 Acq On : 22 Jan 2020 19:05  
 Operator : SY/MD  
 Sample : L1216-03RE  
 Misc : 5.06G/5ML/MSVOA Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 23 01:16:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:09:50 2020  
 Response via : Initial Calibration

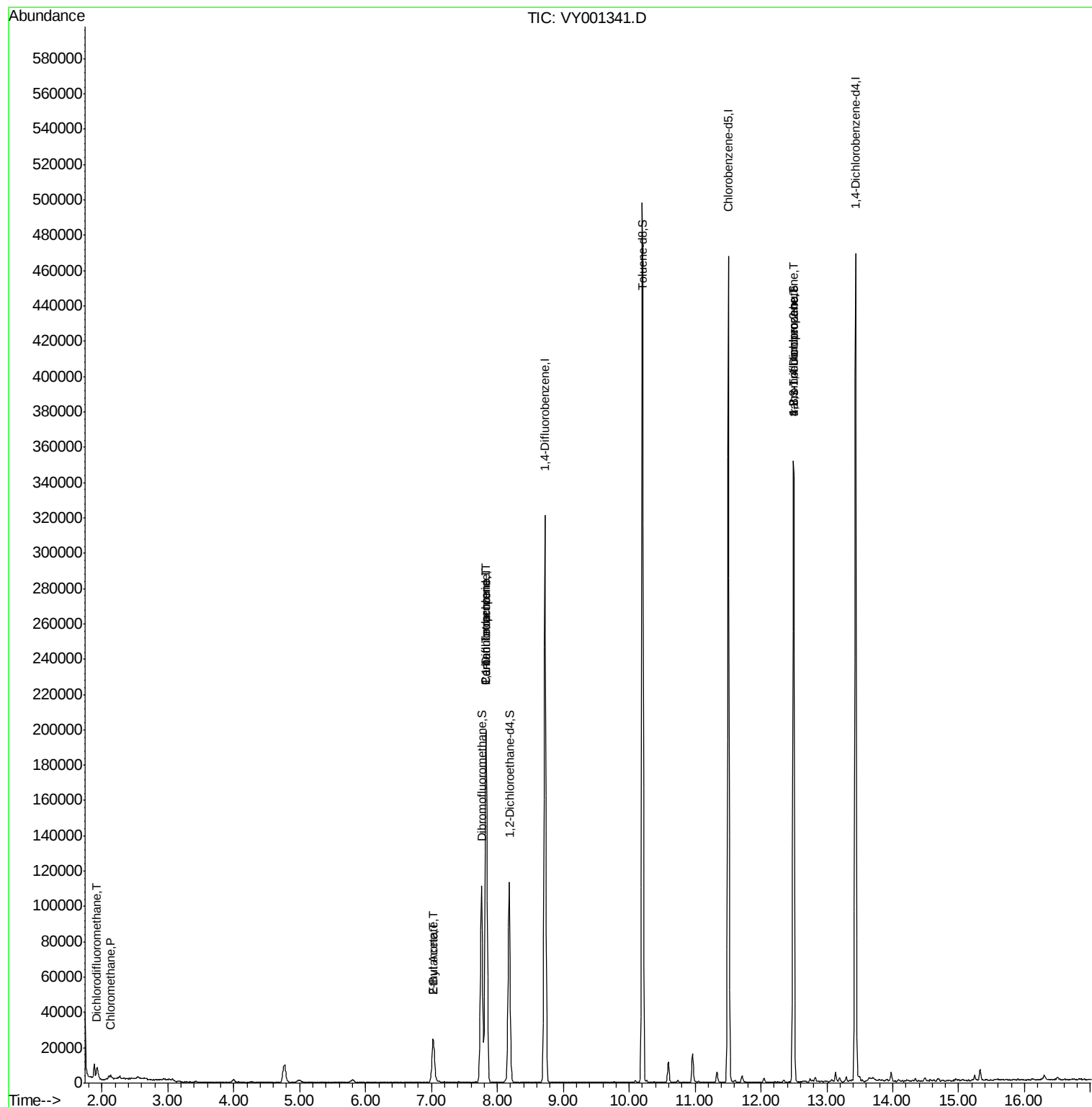
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.83  | 168  | 154606   | 50.00     | ug/l    | 0.01     |
| 34) 1,4-Difluorobenzene        | 8.72  | 114  | 277561   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.50 | 117  | 247244   | 50.00     | ug/l    | -0.01    |
| 72) 1,4-Dichlorobenzene-d4     | 13.44 | 152  | 113707   | 50.00     | ug/l    | -0.03    |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.18  | 65   | 82663    | 49.14     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 98.28%  |          |
| 35) Dibromofluoromethane       | 7.76  | 113  | 80576    | 49.46     | ug/l    | 0.01     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 98.92%  |          |
| 50) Toluene-d8                 | 10.20 | 98   | 324924   | 51.34     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.68% |          |
| 62) 4-Bromofluorobenzene       | 12.49 | 95   | 117158   | 46.48     | ug/l    | -0.02    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 92.96%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.92  | 85   | 5116     | 4.196     | ug/l    | 98       |
| 3) Chloromethane               | 2.13  | 50   | 1872     | 1.016     | ug/l #  | 88       |
| 11) Tert butyl alcohol         | 5.00  | 59   | 1810     | Below Cal | #       | 74       |
| 13) Acrolein                   | 3.75  | 56   | 22       | Below Cal | #       | 15       |
| 16) Acetone                    | 3.99  | 43   | 2942     | Below Cal |         | 100      |
| 20) Methylene Chloride         | 4.77  | 84   | 8431     | Below Cal |         | 96       |
| 25) 2-Butanone                 | 7.03  | 43   | 1947     | 2.659     | ug/l #  | 68       |
| 36) 1,1-Dichloropropene        | 7.83  | 75   | 12102    | 4.615     | ug/l #  | 49       |
| 37) Ethyl Acetate              | 7.03  | 43   | 1947     | 1.215     | ug/l #  | 33       |
| 38) Carbon Tetrachloride       | 7.83  | 117  | 14939    | 6.392     | ug/l #  | 15       |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 58663    | 42.814    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 58663    | 81.021    | ug/l #  | 14       |

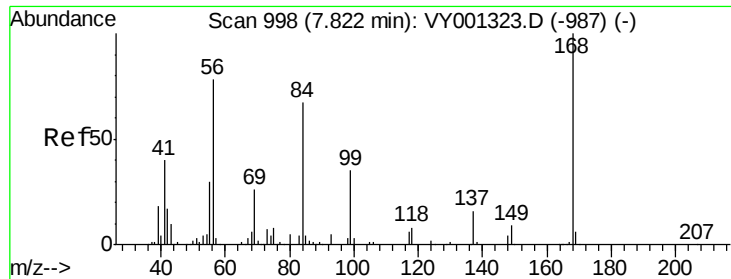
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

Quant Time: Jan 23 01:16:40 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 23 01:09:50 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.83 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

Instrument :

MSVOA\_Y

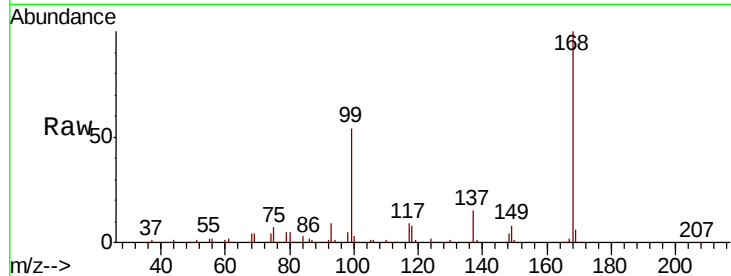
ClientSampleId :

Tot Ion:168 Resp: 154606

Ion Ratio Lower Upper

168 100

99 54.5 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001341.D (-949) (-)

Ion 98.90 (98.60 to 99.60): VY001341.D (-949) (-)

7.83

60000

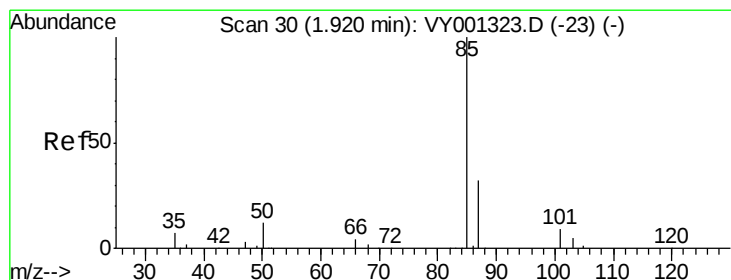
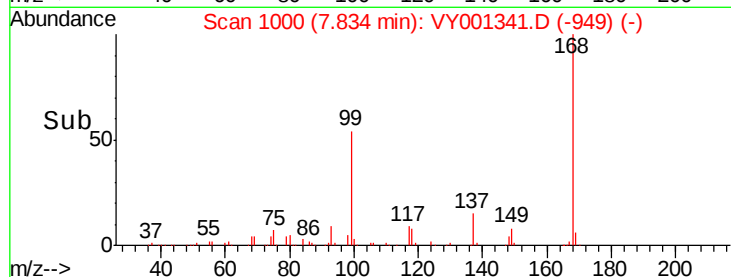
40000

20000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 4.196 ug/l

RT: 1.92 min Scan# 30

Delta R.T. 0.00 min

Lab File: VY001341.D

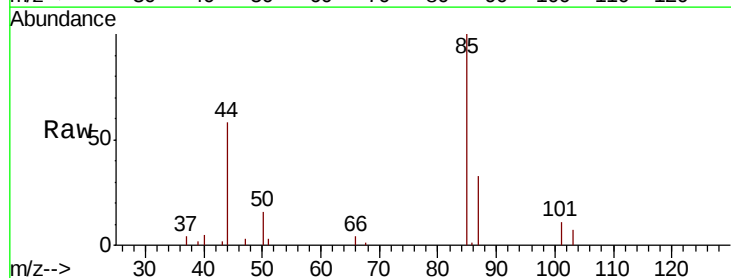
Acq: 22 Jan 2020 19:05

Tgt Ion: 85 Resp: 5116

Ion Ratio Lower Upper

85 100

87 33.3 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VY001341.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY001341.D (-1) (-)

1.92

4000

3000

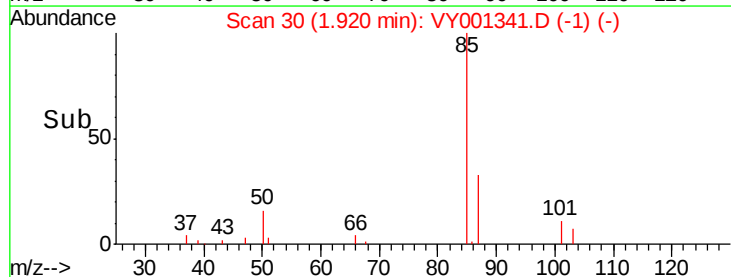
2000

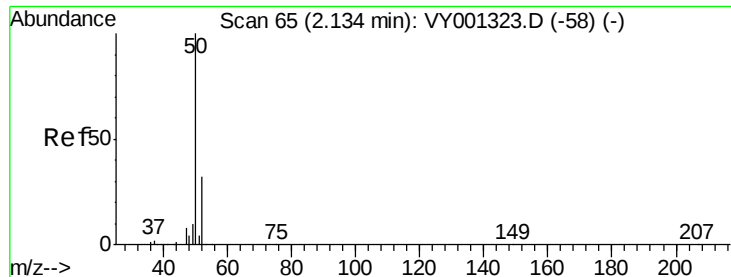
1000

0

1.85 1.90 1.95 2.00

Time-->





#3

Chloromethane

Concen: 1.016 ug/l

RT: 2.13 min Scan# 65

Delta R.T. -0.00 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

Instrument :

MSVOA\_Y

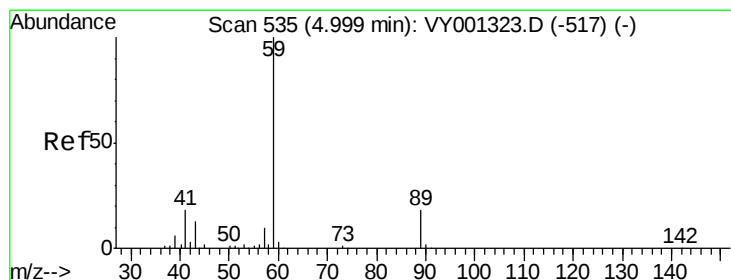
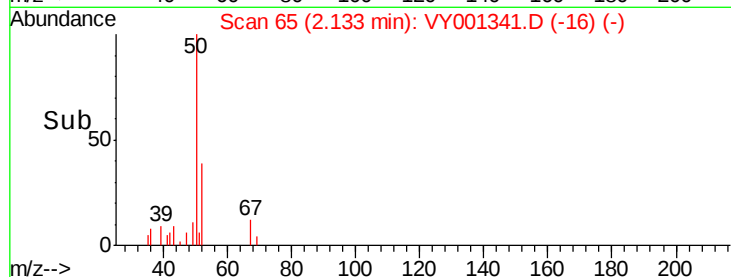
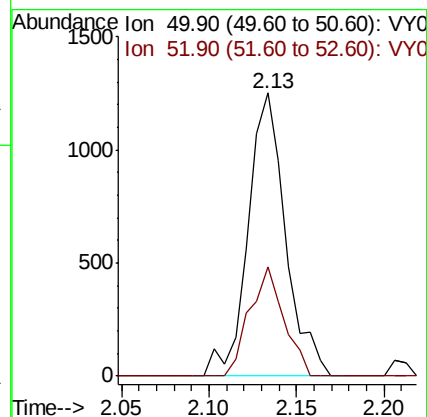
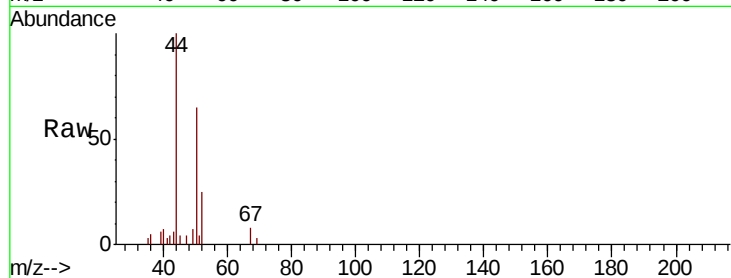
ClientSampleId :

Tot Ion: 50 Resp: 1872

Ion Ratio Lower Upper

50 100

52 38.7 25.7 38.5#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 535

Delta R.T. 0.01 min

Lab File: VY001341.D

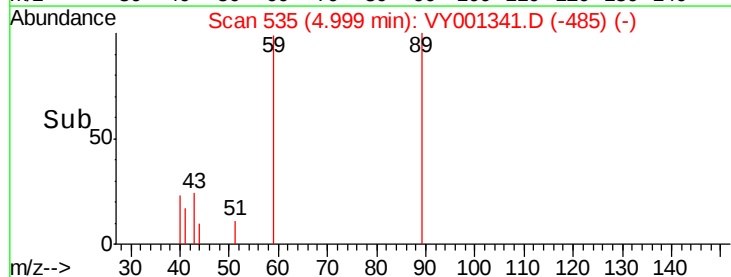
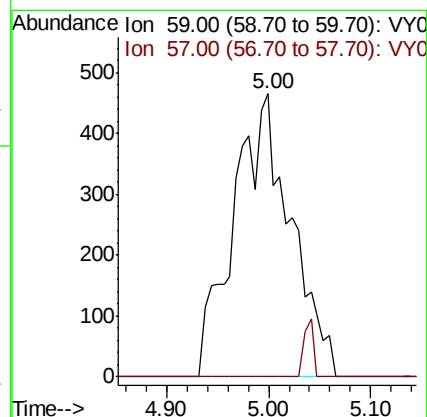
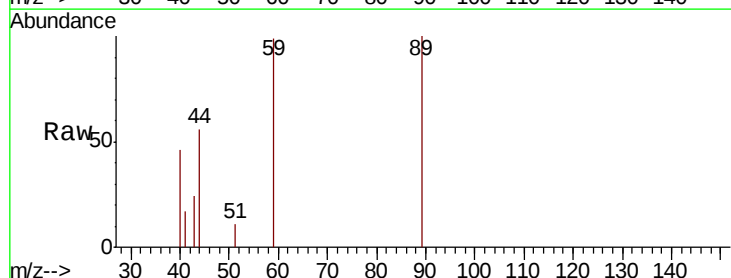
Acq: 22 Jan 2020 19:05

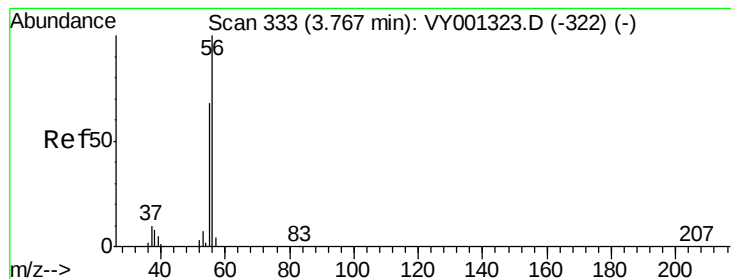
Tgt Ion: 59 Resp: 1810

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#





#13

Acrolein

Concen: Below Cal

RT: 3.75 min Scan# 330

Delta R.T. -0.01 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

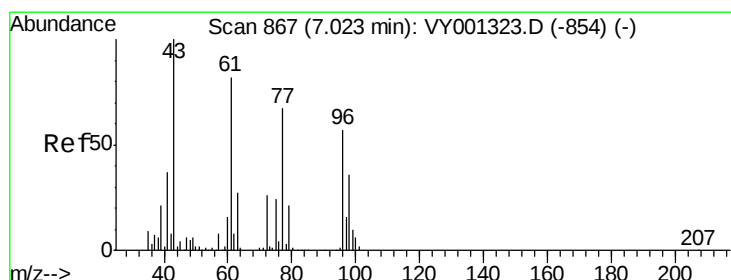
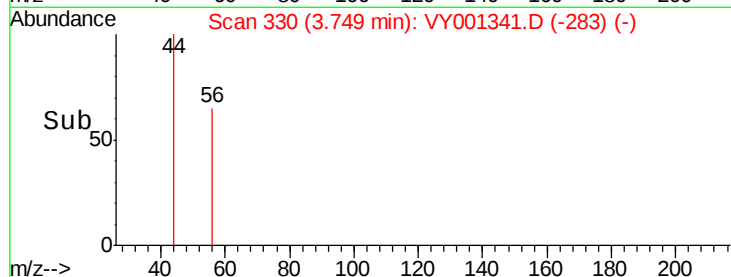
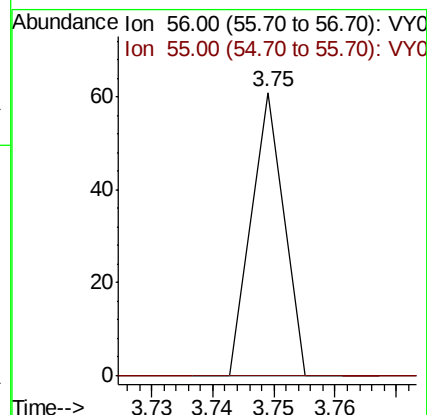
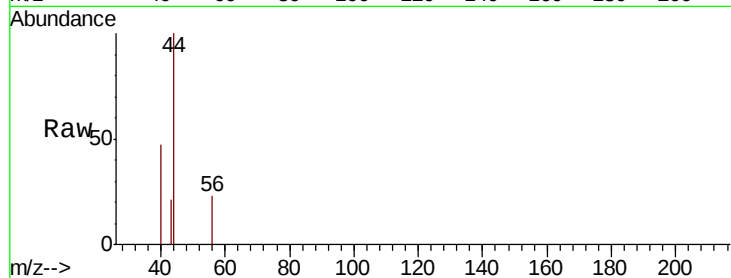
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

56 100

55 0.0 55.9 83.9#



#25

2-Butanone

Concen: 2.659 ug/l

RT: 7.03 min Scan# 868

Delta R.T. 0.01 min

Lab File: VY001341.D

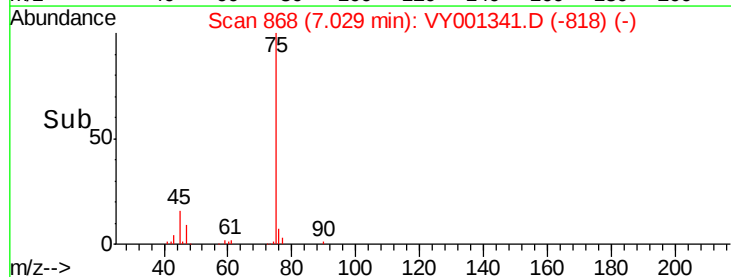
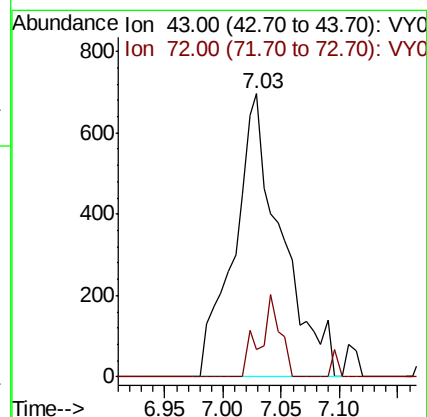
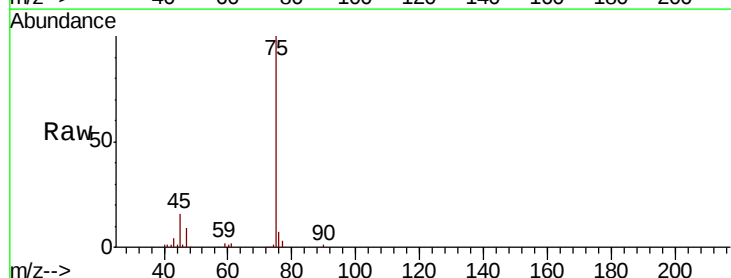
Acq: 22 Jan 2020 19:05

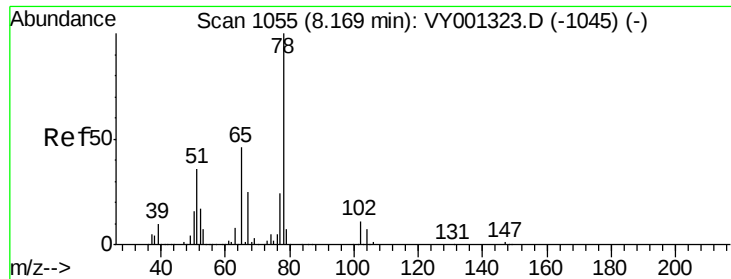
Tgt Ion: 43 Resp: 1947

Ion Ratio Lower Upper

43 100

72 9.5 20.6 31.0#

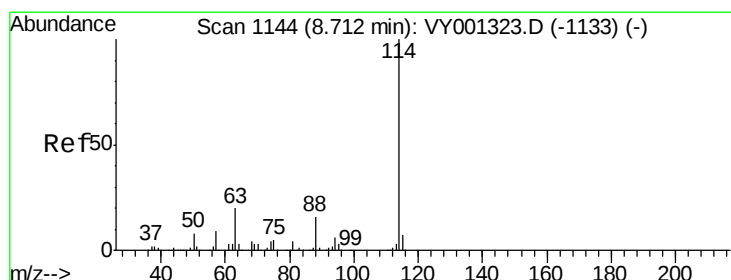
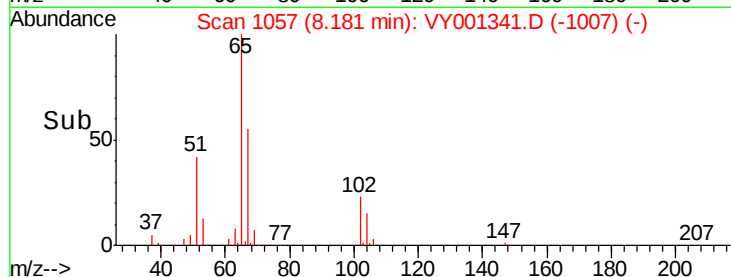
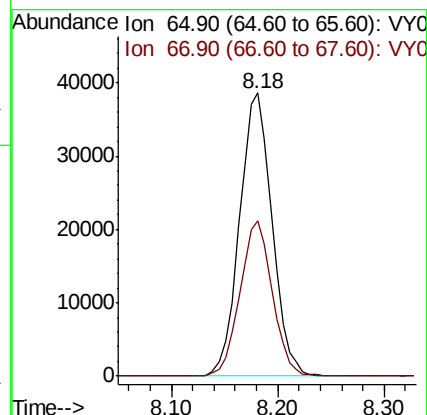
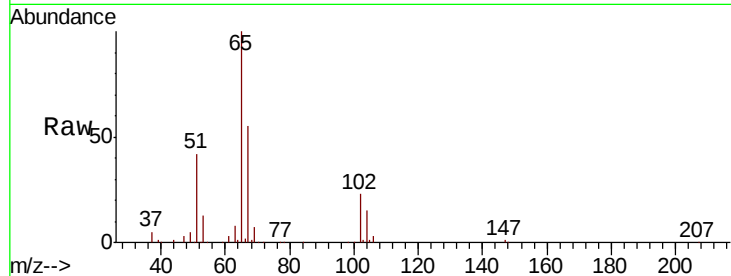




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.136 ug/l  
 RT: 8.18 min Scan# 1057  
 Delta R.T. 0.01 min  
 Lab File: VY001341.D  
 Acq: 22 Jan 2020 19:05

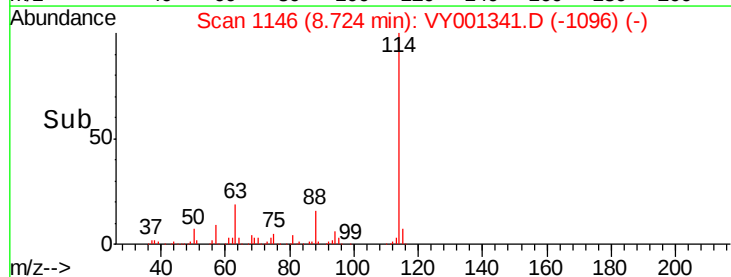
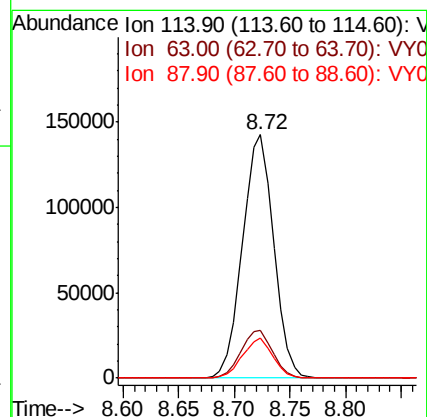
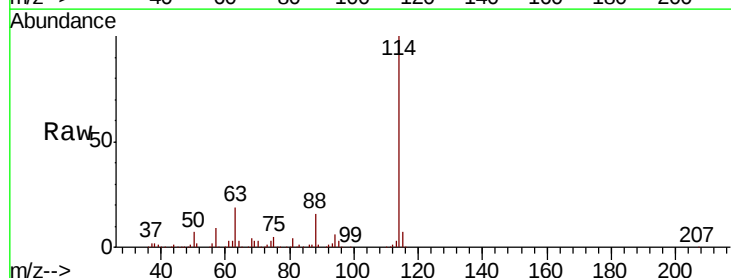
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

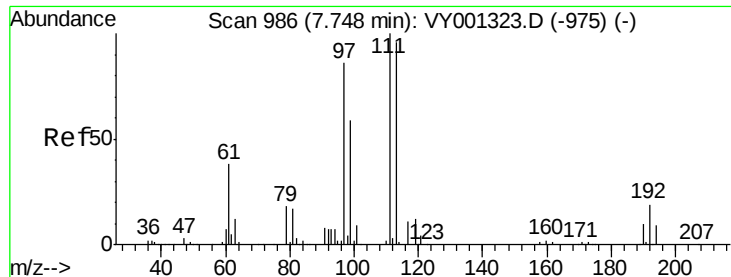
Tot Ion: 65 Resp: 82663  
 Ion Ratio Lower Upper  
 65 100  
 67 54.5 0.0 108.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.72 min Scan# 1146  
 Delta R.T. 0.01 min  
 Lab File: VY001341.D  
 Acq: 22 Jan 2020 19:05

Tgt Ion: 114 Resp: 277561  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 40.8  
 88 16.4 0.0 31.0

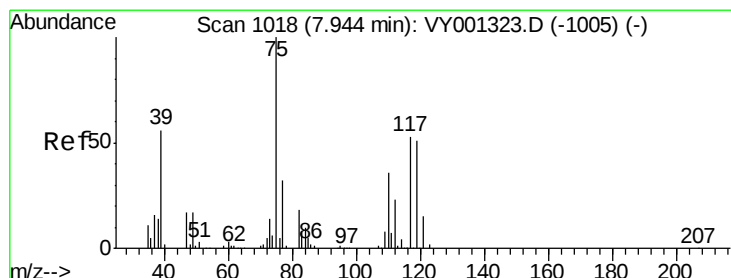
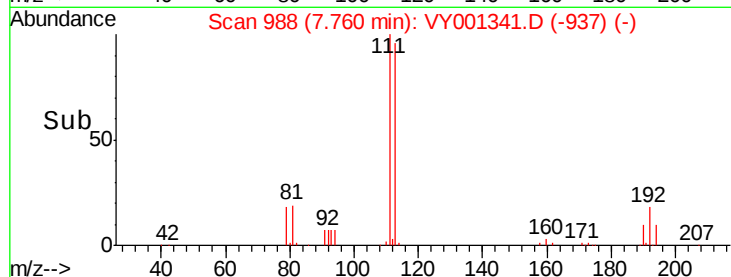
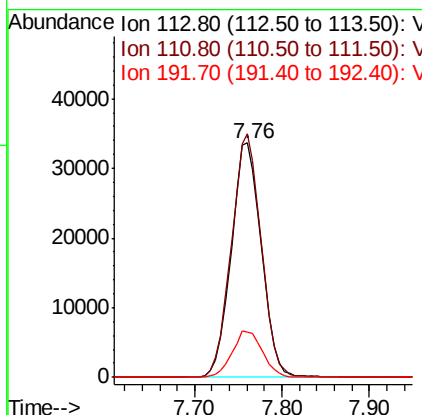
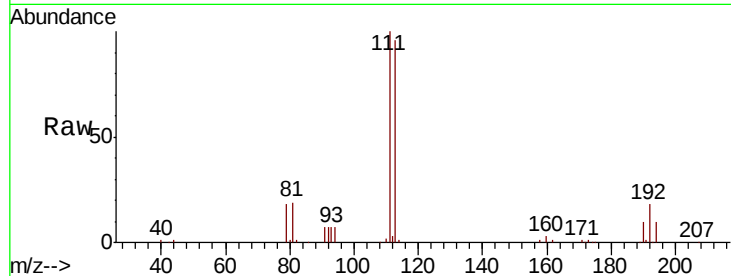




#35  
 Dibromofluoromethane  
 Concen: 49.462 ug/l  
 RT: 7.76 min Scan# 988  
 Delta R.T. 0.01 min  
 Lab File: VY001341.D  
 Acq: 22 Jan 2020 19:05

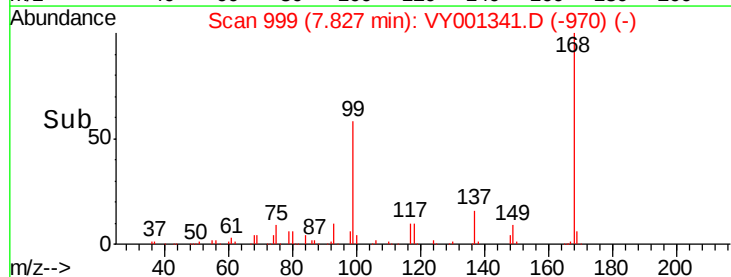
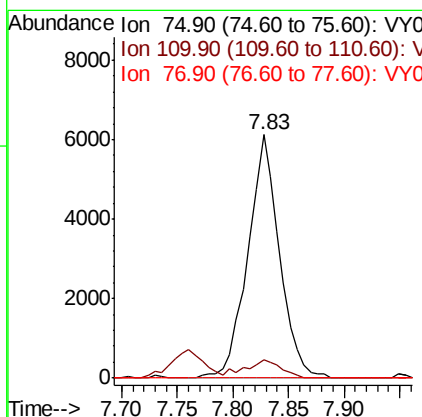
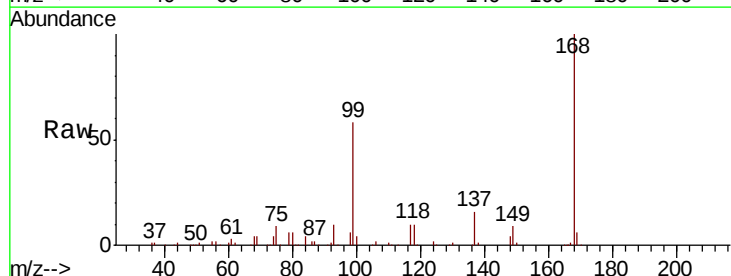
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

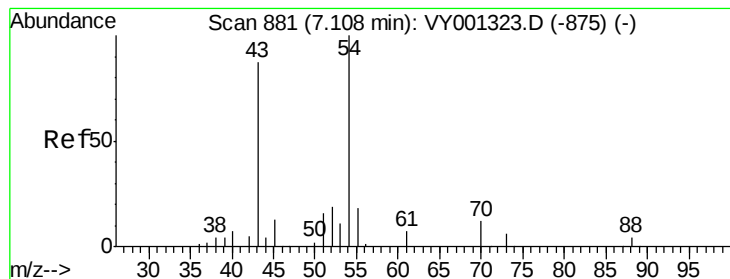
Tot Ion:113 Resp: 80576  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 82.8 124.2  
 192 19.8 15.5 23.3



#36  
 1,1-Dichloropropene  
 Concen: 4.615 ug/l  
 RT: 7.83 min Scan# 999  
 Delta R.T. -0.12 min  
 Lab File: VY001341.D  
 Acq: 22 Jan 2020 19:05

Tgt Ion: 75 Resp: 12102  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 17.6 52.8#  
 77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.215 ug/l

RT: 7.03 min Scan# 868

Delta R.T. -0.08 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

Instrument :

MSVOA\_Y

ClientSampled :

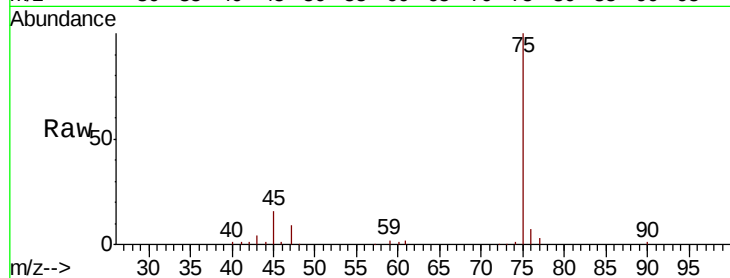
Tot Ion: 43 Resp: 1947

Ion Ratio Lower Upper

43 100

61 53.2 11.3 16.9#

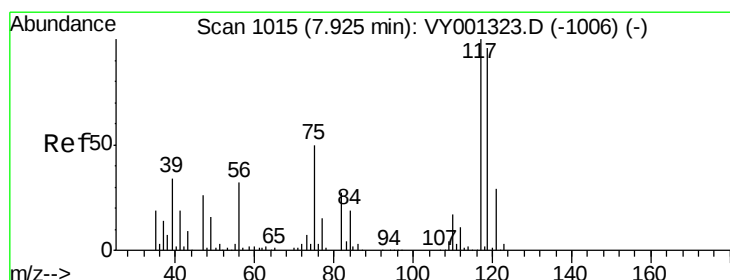
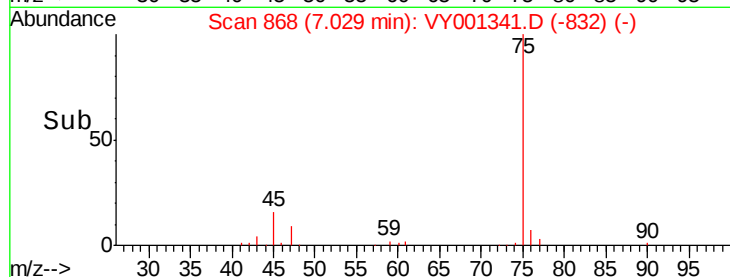
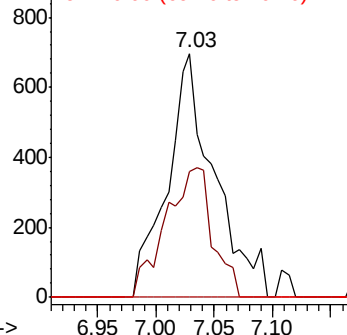
70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 70.00 (69.70 to 70.70): VY0



#38

Carbon Tetrachloride

Concen: 6.392 ug/l

RT: 7.83 min Scan# 999

Delta R.T. -0.10 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

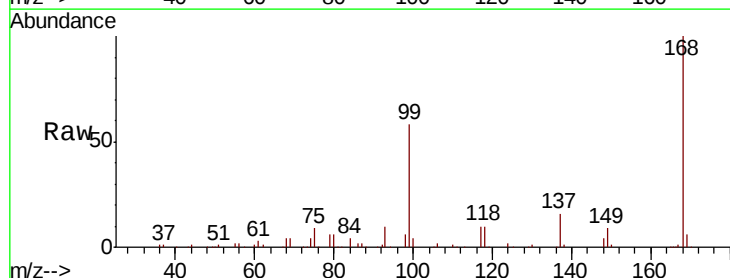
Tgt Ion: 117 Resp: 14939

Ion Ratio Lower Upper

117 100

119 4.0 76.3 114.5#

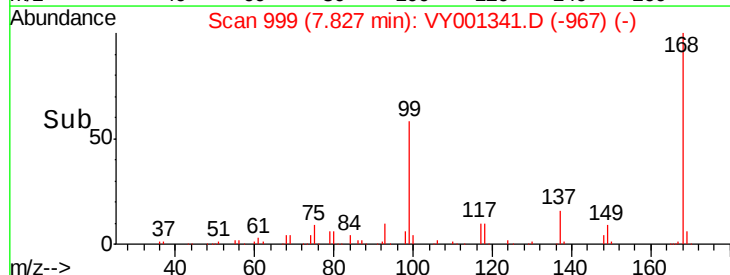
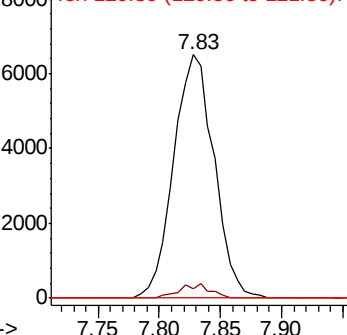
121 0.0 23.5 35.3#

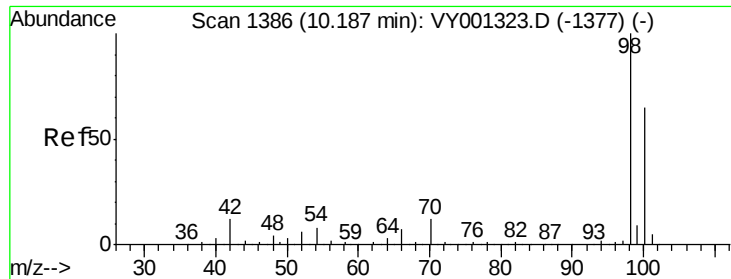


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 51.338 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. -0.01 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

Instrument :

MSVOA\_Y

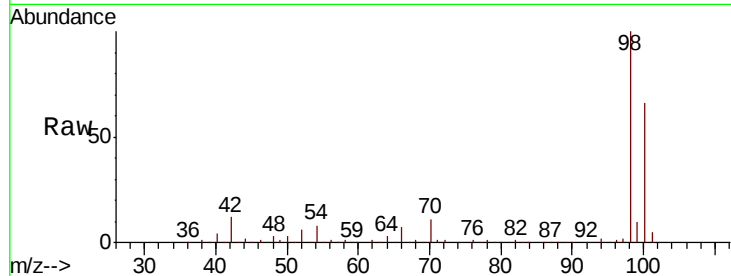
ClientSampleId :

Tot Ion: 98 Resp: 324924

Ion Ratio Lower Upper

98 100

100 66.1 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY001323.D (-1377) (-)

Ion 100.00 (99.70 to 100.70): VY001323.D (-1377) (-)

10.20

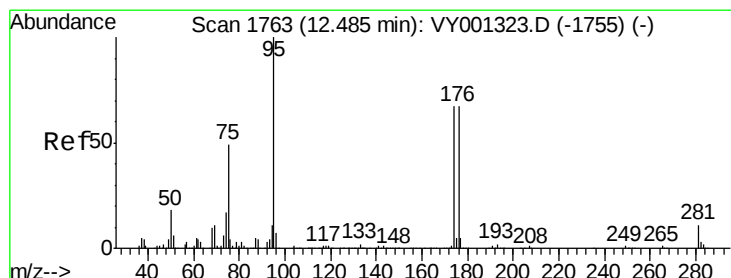
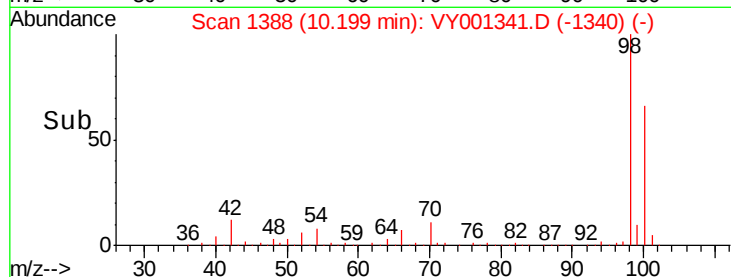
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.483 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.02 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

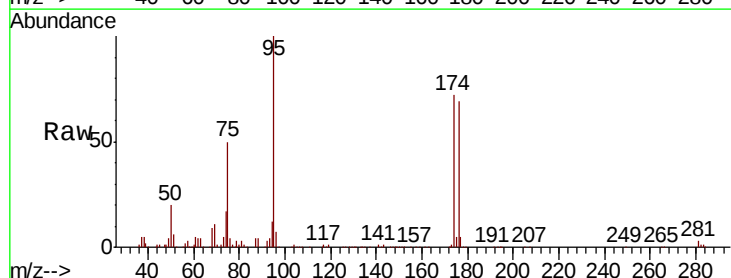
Tgt Ion: 95 Resp: 117158

Ion Ratio Lower Upper

95 100

174 75.7 0.0 142.0

176 72.2 0.0 138.6



Abundance Ion 94.90 (94.60 to 95.60): VY001323.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY001323.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY001323.D (-1755) (-)

12.49

100000

80000

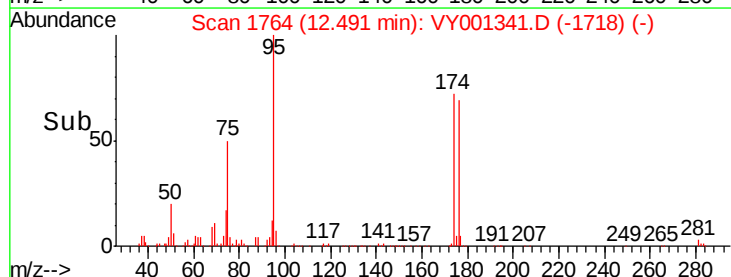
60000

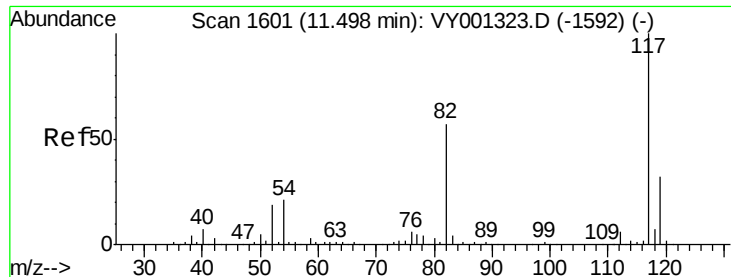
40000

20000

0

Time-->

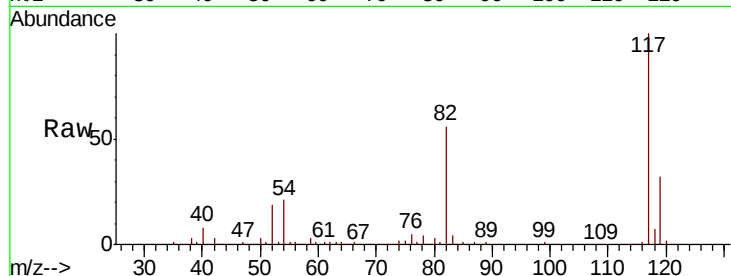




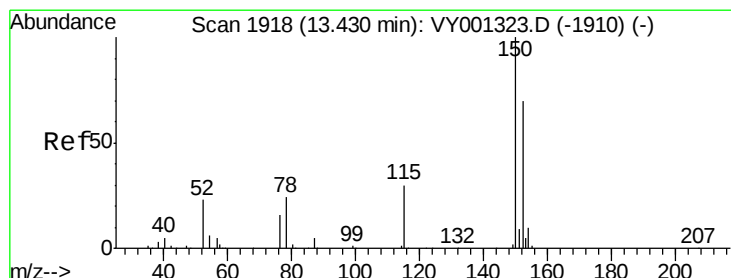
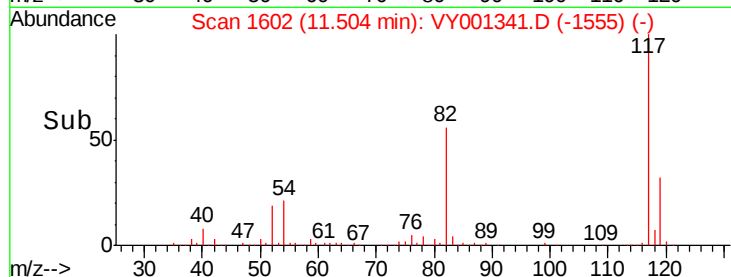
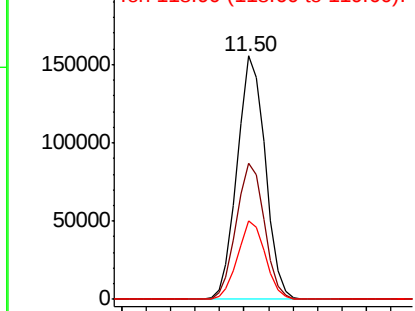
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. -0.01 min  
Lab File: VY001341.D  
Acq: 22 Jan 2020 19:05

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:117 Resp: 247244  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.5 68.3  
119 32.3 25.8 38.6

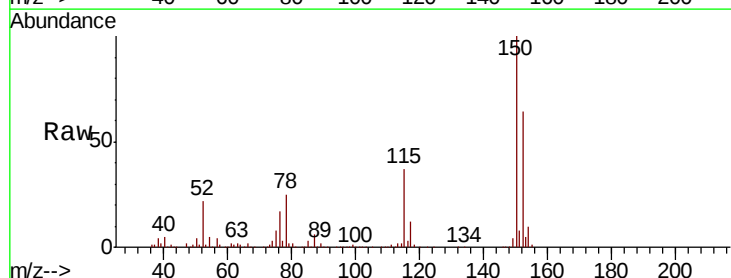


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

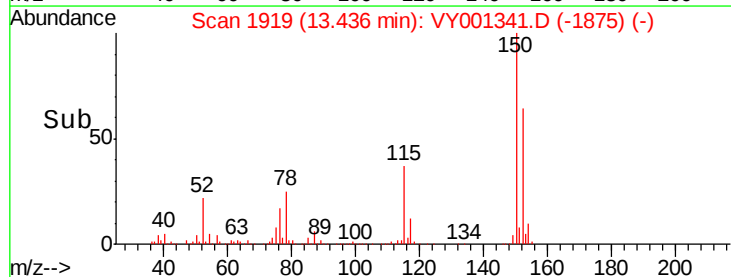
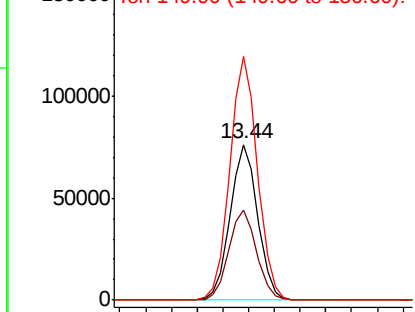


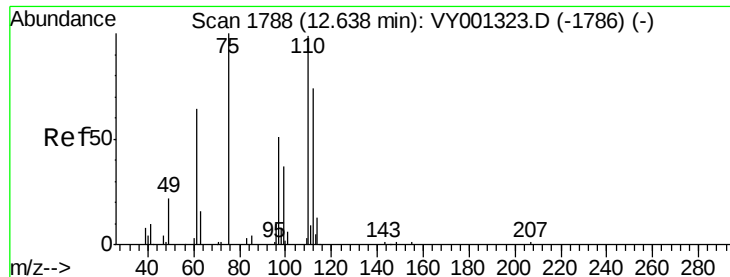
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. -0.03 min  
Lab File: VY001341.D  
Acq: 22 Jan 2020 19:05

Tgt Ion:152 Resp: 113707  
Ion Ratio Lower Upper  
152 100  
115 58.6 30.9 92.8  
150 156.7 0.0 349.2



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: 42.814 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.17 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

Instrument :

MSVOA\_Y

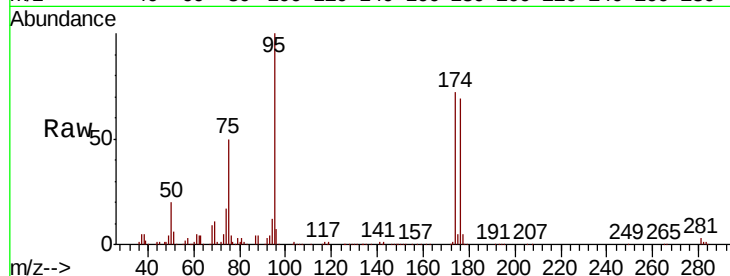
ClientSampleId :

Tot Ion: 75 Resp: 58663

Ion Ratio Lower Upper

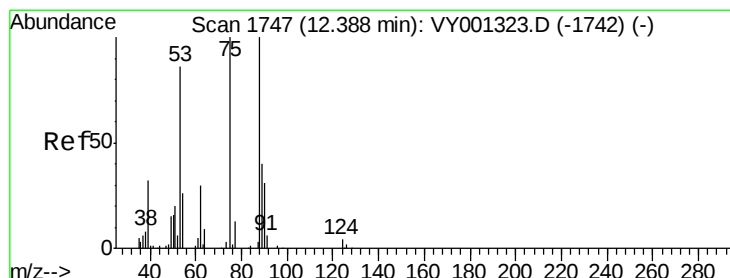
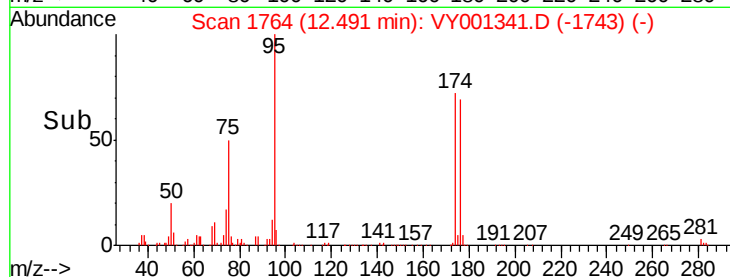
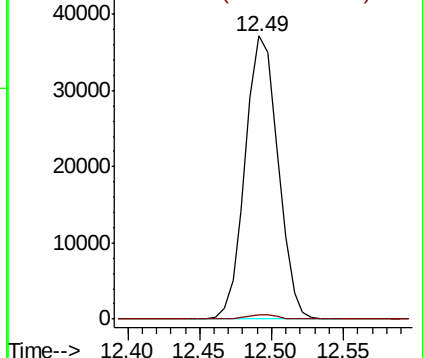
75 100

77 1.6 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: 81.021 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.09 min

Lab File: VY001341.D

Acq: 22 Jan 2020 19:05

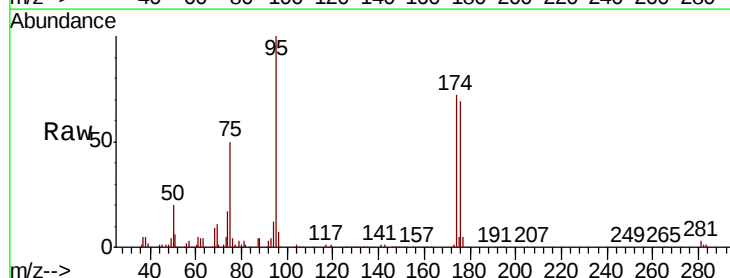
Tgt Ion: 75 Resp: 58663

Ion Ratio Lower Upper

75 100

53 0.0 69.9 104.9#

89 0.0 36.6 54.8#



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

