

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY011720\  
 Data File : VY001271.D  
 Acq On : 17 Jan 2020 17:33  
 Operator : SY/MD  
 Sample : L1155-01  
 Misc : 5.28G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RBR-200028

Quant Time: Jan 18 03:25:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y011020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 10 16:01:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 188445   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 331452   | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 305138   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 142057   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 106392   | 53.46 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 106.92% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 92080    | 47.45 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 94.90%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 395600   | 52.90 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 105.80% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 145621   | 47.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.26%  |          |

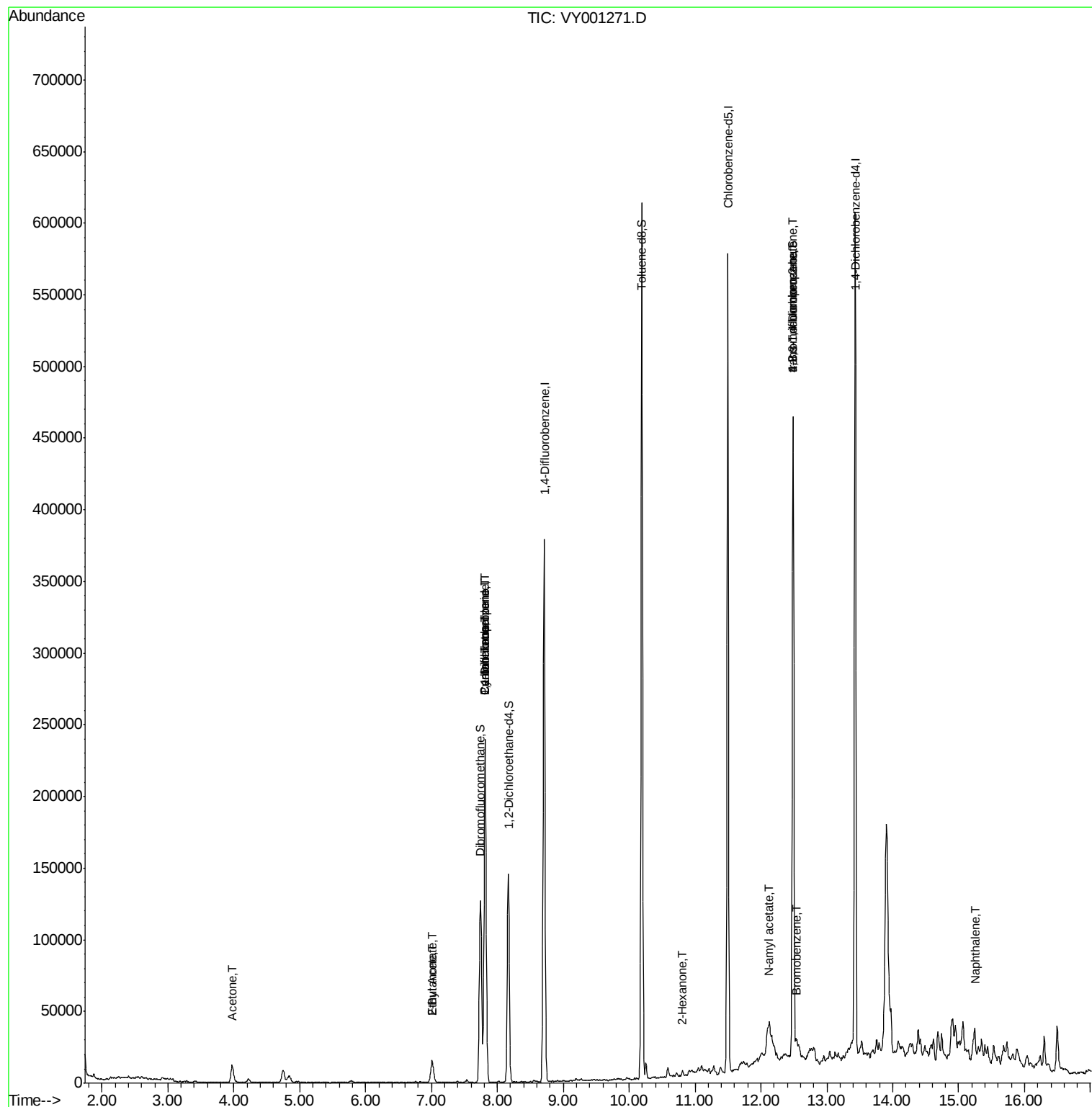
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone                    | 3.97  | 43   | 21767    | 47.09 | ug/l   | 96     |
| 20) Methylene Chloride         | 4.75  | 84   | 6387     | Below | Cal    | 94     |
| 25) 2-Butanone                 | 7.02  | 43   | 2111     | 2.93  | ug/l # | 85     |
| 31) Cyclohexane                | 7.82  | 56   | 4091     | 1.06  | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 14838    | 4.91  | ug/l # | 49     |
| 37) Ethyl Acetate              | 7.02  | 43   | 2111     | 1.19  | ug/l # | 67     |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 17873    | 6.46  | ug/l # | 15     |
| 59) 2-Hexanone                 | 10.80 | 43   | 2079     | 1.72  | ug/l # | 24     |
| 74) N-amyl acetate             | 12.13 | 43   | 28844    | 8.65  | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 70241    | 46.19 | ug/l # | 100    |
| 77) Bromobenzene               | 12.55 | 156  | 9546     | 4.05  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 70241    | 78.33 | ug/l # | 6      |
| 95) Naphthalene                | 15.24 | 128  | 12665    | 1.99  | ug/l # | 95     |

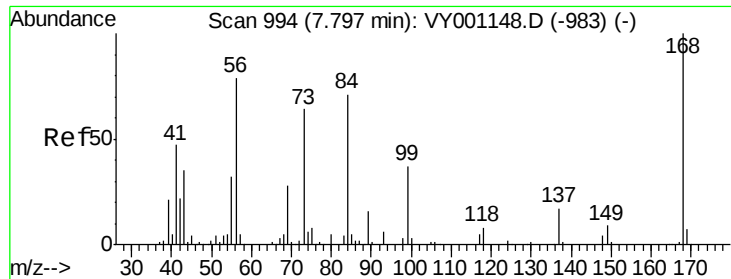
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\DATA\VY011720\  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y011020S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 10 16:01:58 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.02 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

Instrument :

MSVOA\_Y

ClientSampleId :

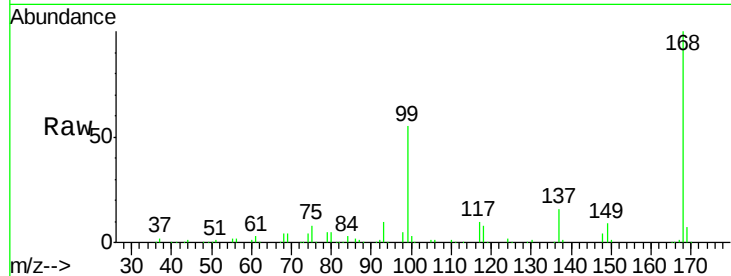
RBR-200028

Tgt Ion:168 Resp: 188445

Ion Ratio Lower Upper

168 100

99 54.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001148.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001148.D (-983) (-)

7.82

80000

60000

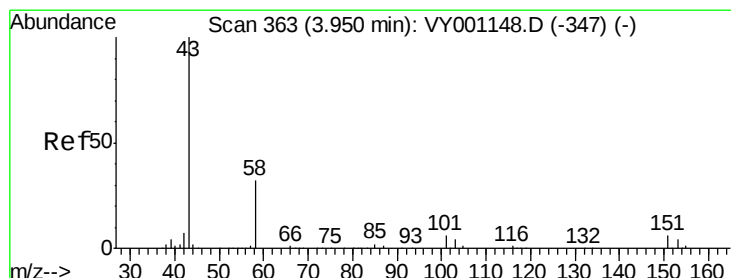
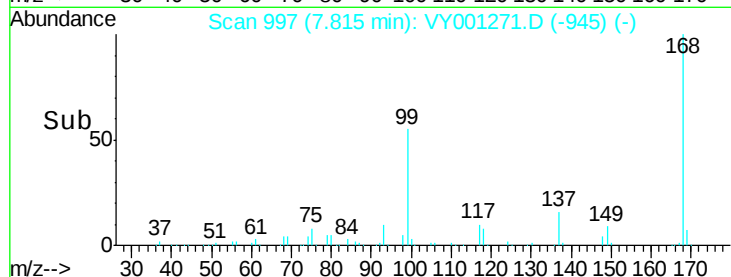
40000

20000

0

7.70 7.80 7.90

Time-->



#16

Acetone

Concen: 47.09 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VY001271.D

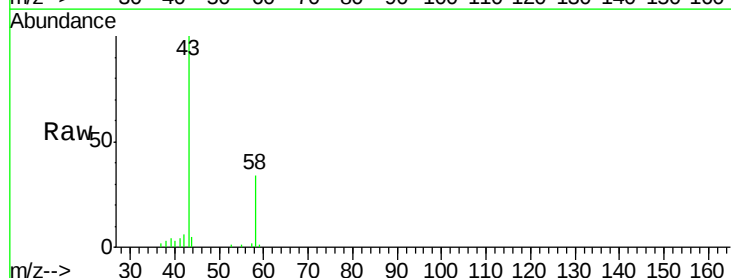
Acq: 17 Jan 2020 17:33

Tgt Ion: 43 Resp: 21767

Ion Ratio Lower Upper

43 100

58 34.2 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VY001148.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VY001148.D (-347) (-)

3.97

8000

6000

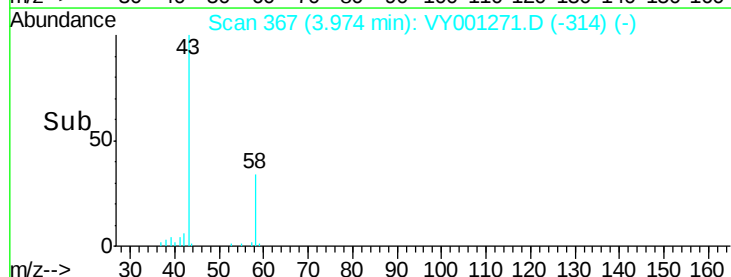
4000

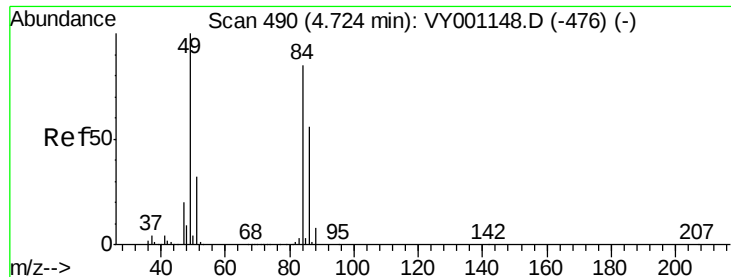
2000

0

3.90 4.00 4.10

Time-->

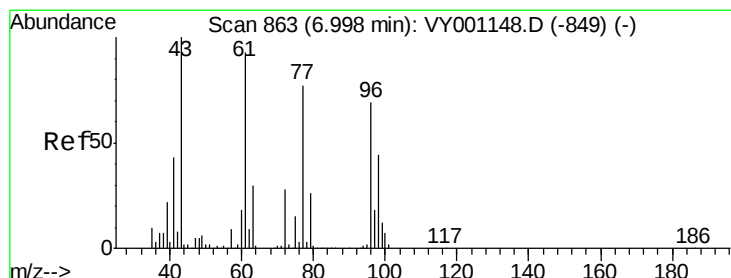
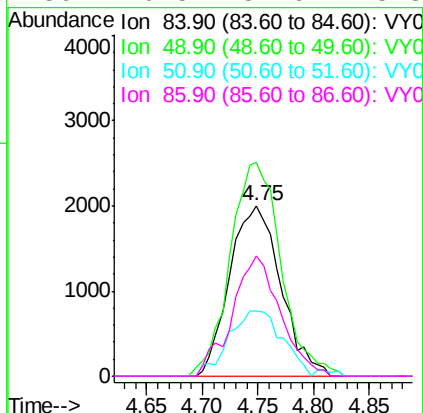
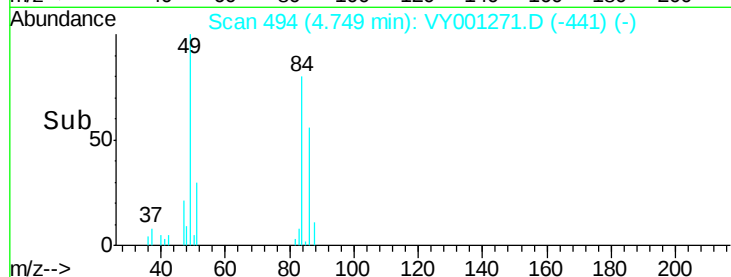
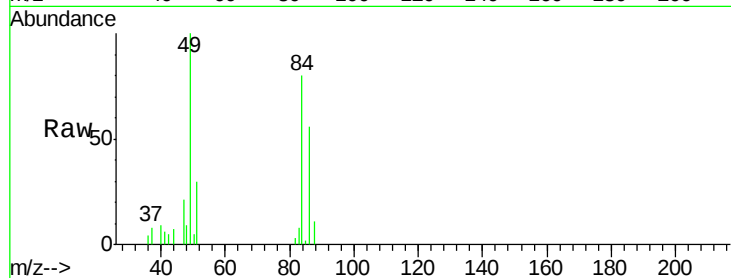




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.75 min Scan# 494  
Delta R.T. 0.02 min  
Lab File: VY001271.D  
Acq: 17 Jan 2020 17:33

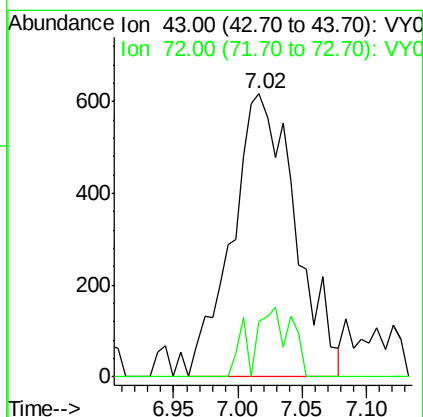
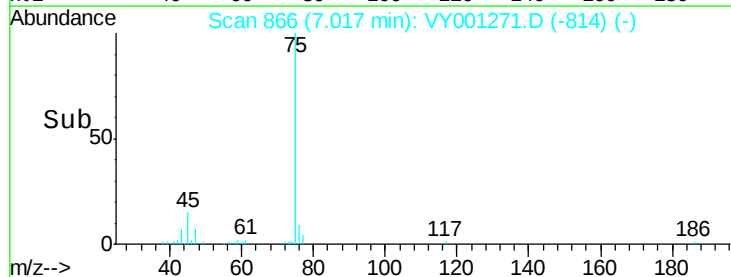
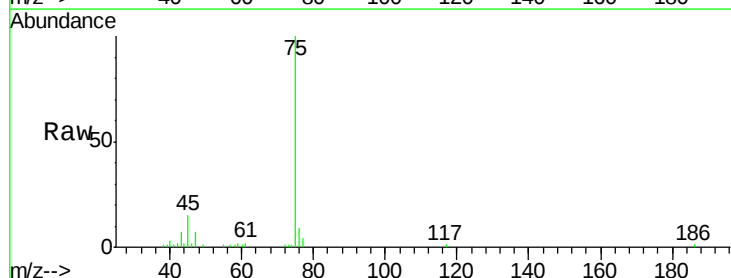
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-200028

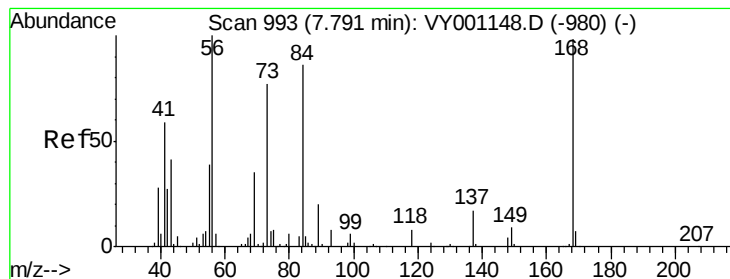
Tgt Ion: 84 Resp: 6387  
Ion Ratio Lower Upper  
84 100  
49 125.1 93.8 140.6  
51 37.9 29.9 44.9  
86 70.5 52.6 78.8



#25  
2-Butanone  
Concen: 2.93 ug/l  
RT: 7.02 min Scan# 866  
Delta R.T. 0.02 min  
Lab File: VY001271.D  
Acq: 17 Jan 2020 17:33

Tgt Ion: 43 Resp: 2111  
Ion Ratio Lower Upper  
43 100  
72 19.8 22.2 33.2#





#31

Cyclohexane

Concen: 1.06 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.02 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

Instrument :

MSVOA\_Y

ClientSampleId :

RBR-200028

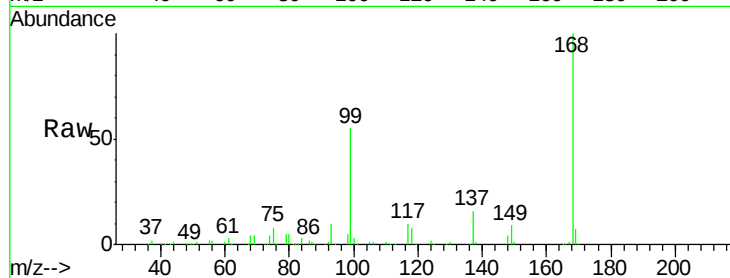
Tgt Ion: 56 Resp: 4091

Ion Ratio Lower Upper

56 100

69 162.0 27.8 41.8#

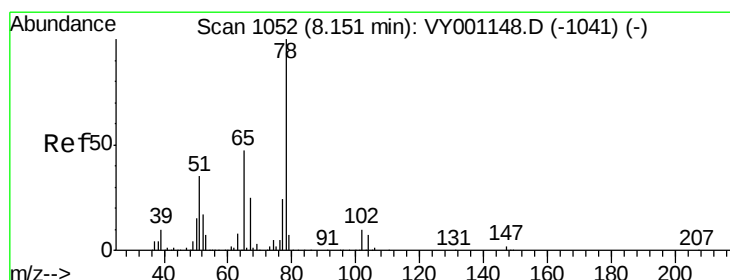
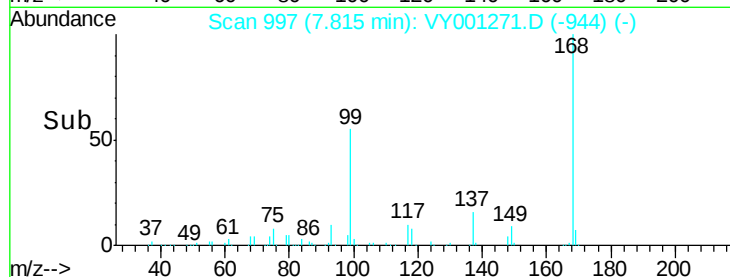
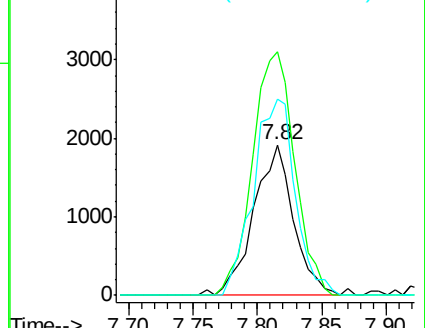
84 130.6 68.9 103.3#



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: 53.46 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.02 min

Lab File: VY001271.D

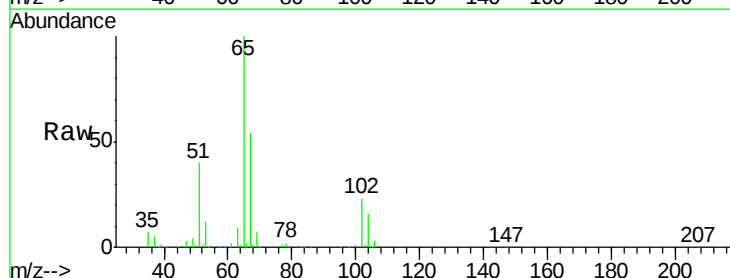
Acq: 17 Jan 2020 17:33

Tgt Ion: 65 Resp: 106392

Ion Ratio Lower Upper

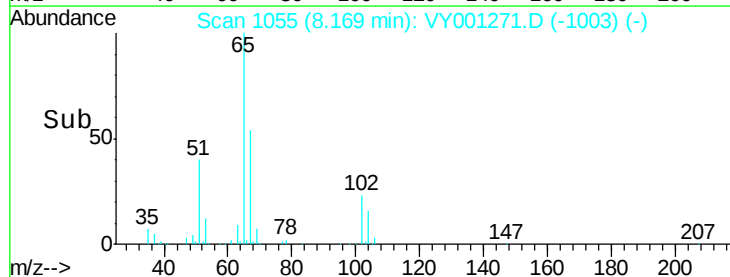
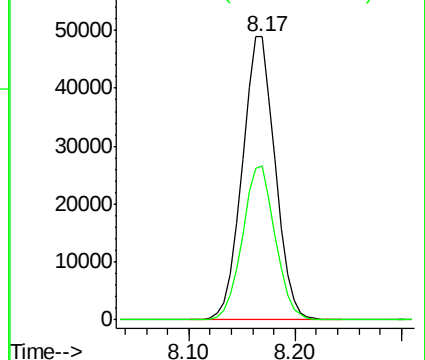
65 100

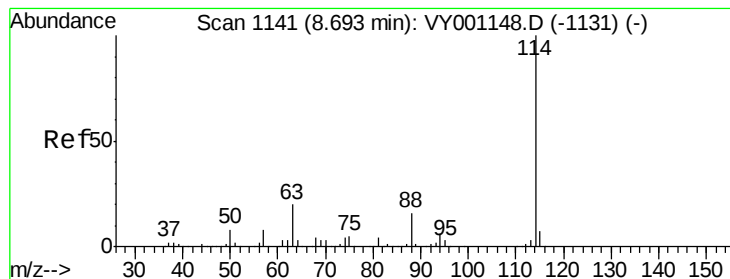
67 54.0 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.71 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

Instrument :

MSVOA\_Y

ClientSampleId :

RBR-200028

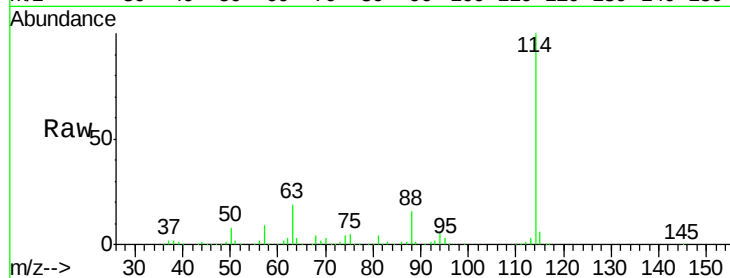
Tgt Ion:114 Resp: 331452

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.8

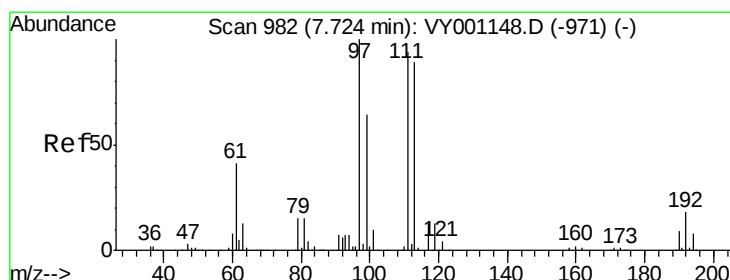
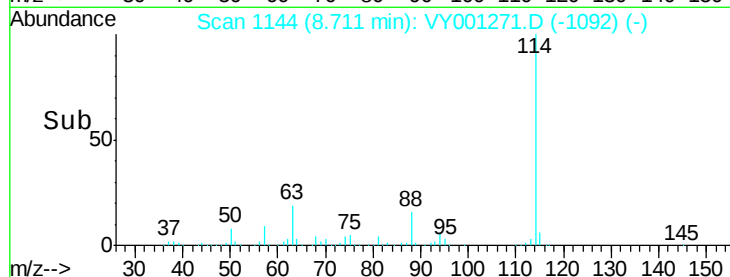
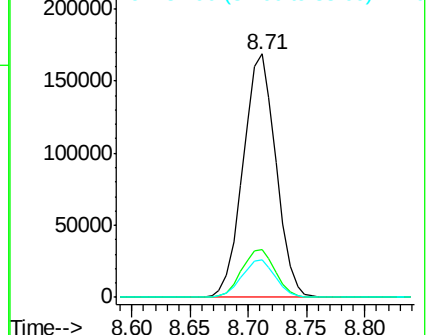
88 15.5 0.0 32.4



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: 47.45 ug/l

RT: 7.74 min Scan# 985

Delta R.T. 0.02 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

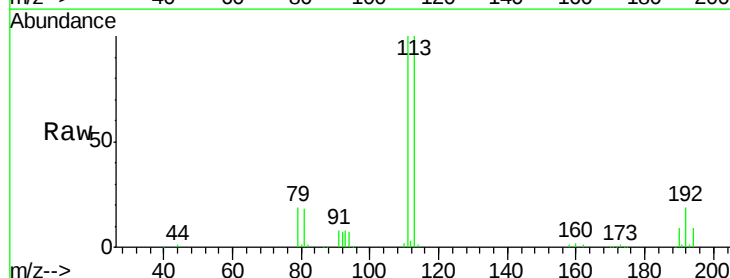
Tgt Ion:113 Resp: 92080

Ion Ratio Lower Upper

113 100

111 102.8 82.9 124.3

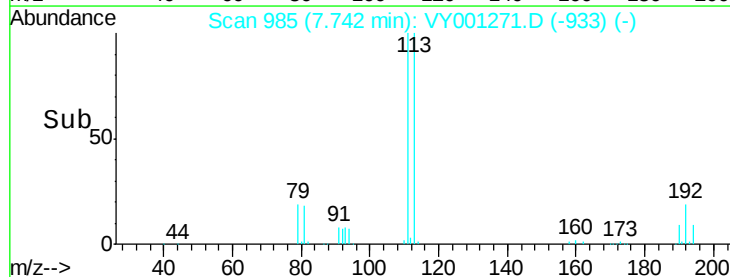
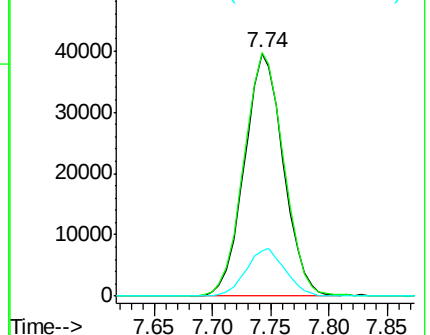
192 19.7 15.4 23.2

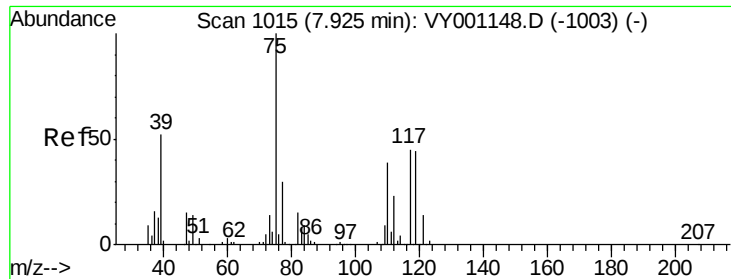


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

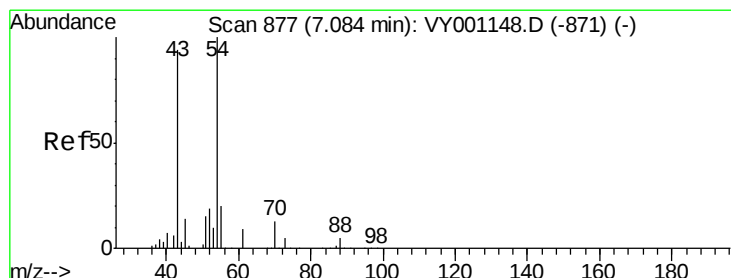
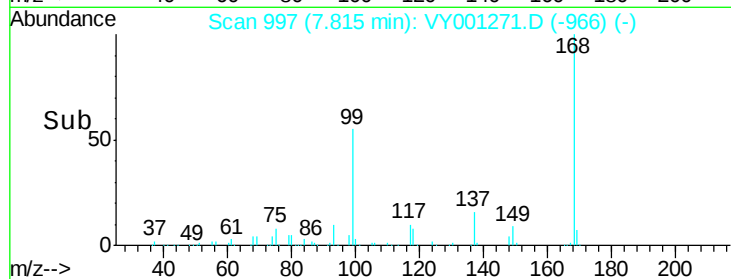
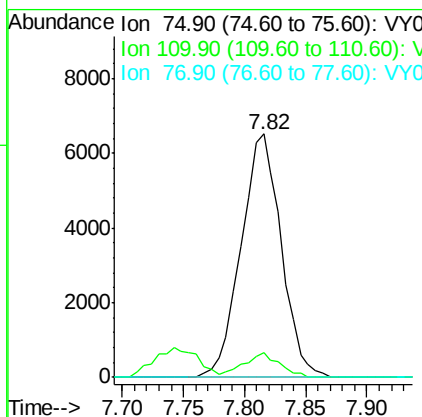
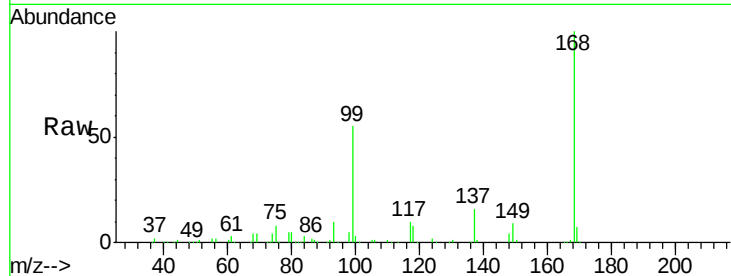




#36  
 1,1-Dichloropropene  
 Concen: 4.91 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.11 min  
 Lab File: VY001271.D  
 Acq: 17 Jan 2020 17:33

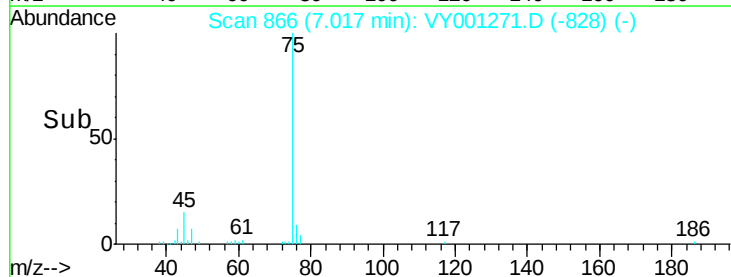
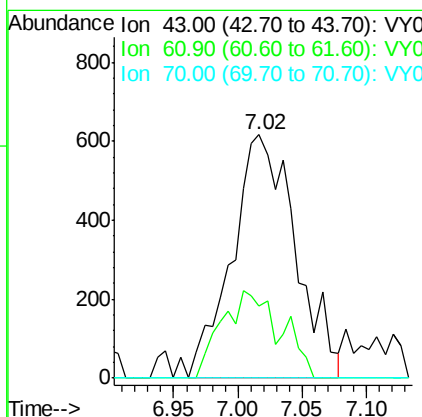
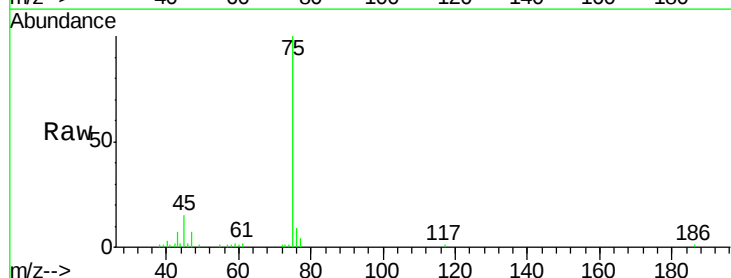
Instrument :  
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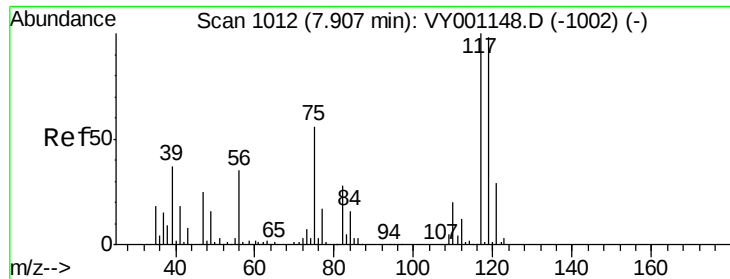
Tgt Ion: 75 Resp: 14838  
 Ion Ratio Lower Upper  
 75 100  
 110 9.0 18.3 54.8#  
 77 0.0 25.1 37.7#



#37  
 Ethyl Acetate  
 Concen: 1.19 ug/l  
 RT: 7.02 min Scan# 866  
 Delta R.T. -0.07 min  
 Lab File: VY001271.D  
 Acq: 17 Jan 2020 17:33

Tgt Ion: 43 Resp: 2111  
 Ion Ratio Lower Upper  
 43 100  
 61 28.1 11.1 16.7#  
 70 0.0 9.7 14.5#

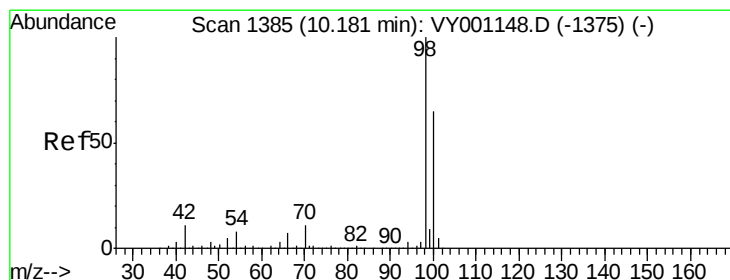
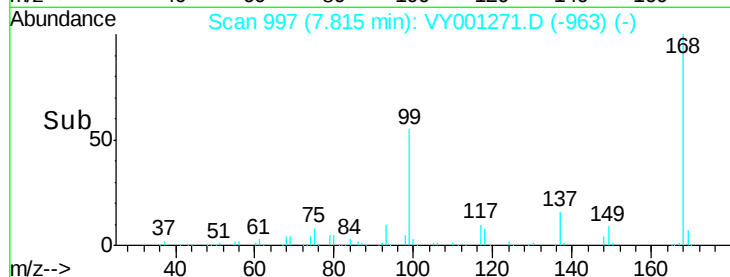
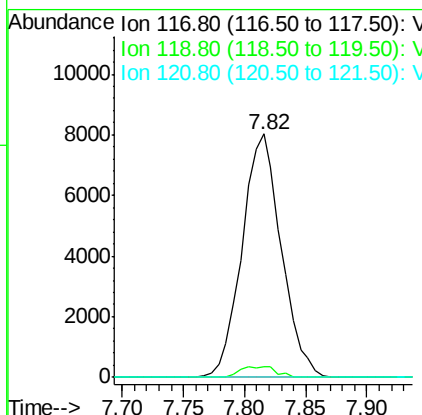
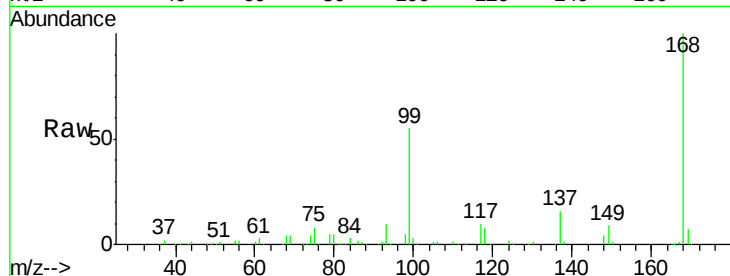




#38  
 Carbon Tetrachloride  
 Concen: 6.46 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.09 min  
 Lab File: VY001271.D  
 Acq: 17 Jan 2020 17:33

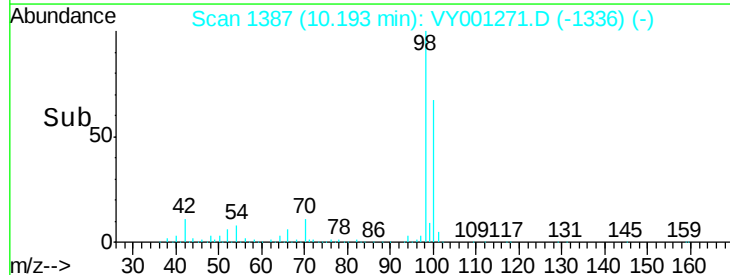
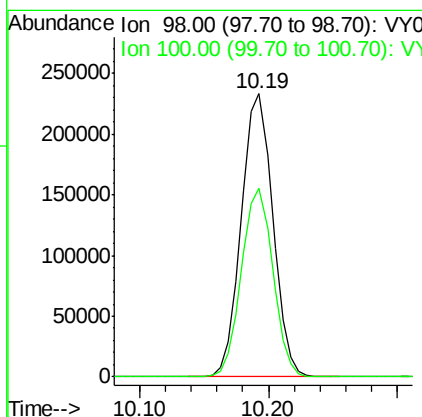
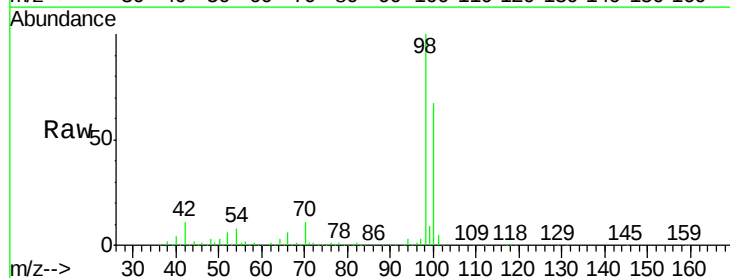
Instrument :  
 MSVOA\_Y  
 ClientSampleID :  
 RBR-200028

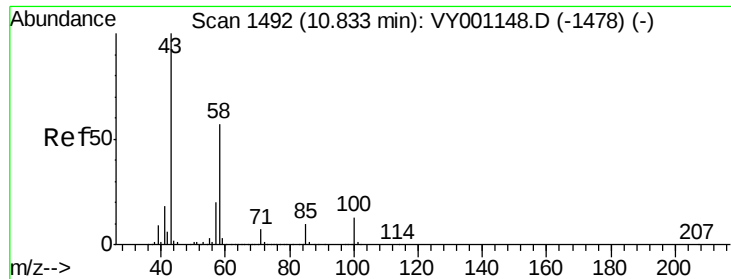
Tgt Ion: 117 Resp: 17873  
 Ion Ratio Lower Upper  
 117 100  
 119 4.5 78.3 117.5#  
 121 0.0 23.5 35.3#



#50  
 Toluene-d8  
 Concen: 52.90 ug/l  
 RT: 10.19 min Scan# 1387  
 Delta R.T. 0.01 min  
 Lab File: VY001271.D  
 Acq: 17 Jan 2020 17:33

Tgt Ion: 98 Resp: 395600  
 Ion Ratio Lower Upper  
 98 100  
 100 66.1 53.1 79.7





#59

2-Hexanone

Concen: 1.72 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.03 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

Instrument :

MSVOA\_Y

ClientSampled :

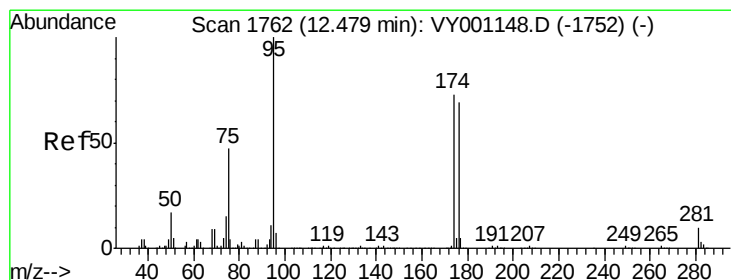
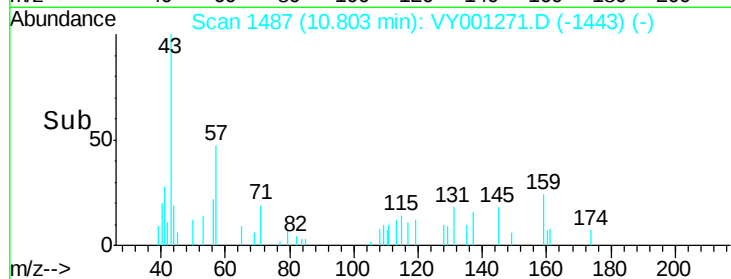
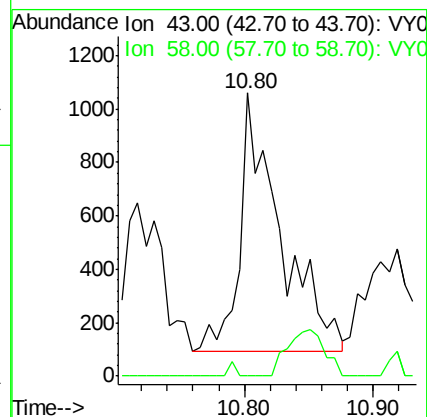
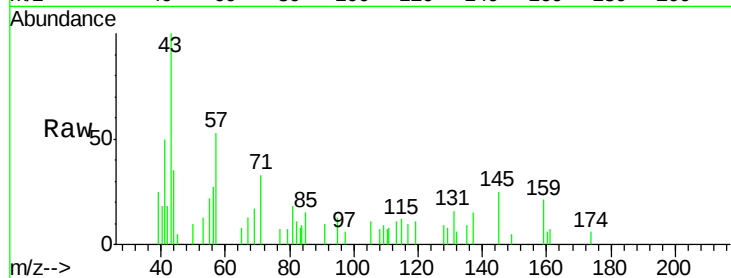
RBR-200028

Tgt Ion: 43 Resp: 2079

Ion Ratio Lower Upper

43 100

58 1.0 28.4 85.2#



#62

4-Bromofluorobenzene

Concen: 47.63 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.01 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

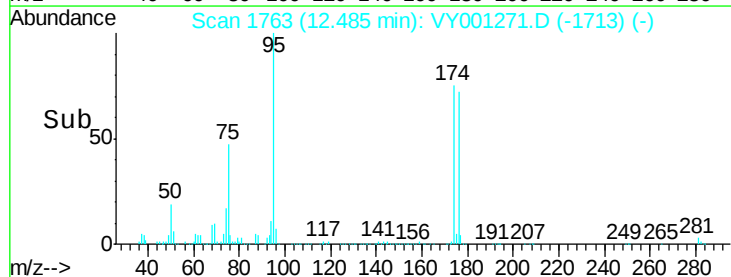
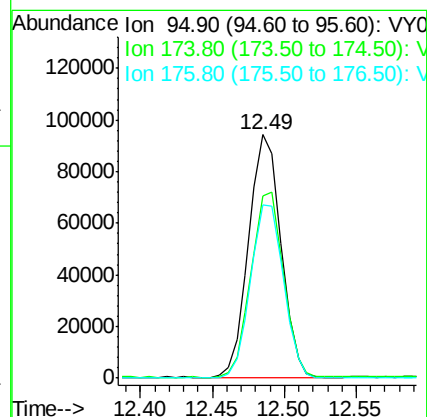
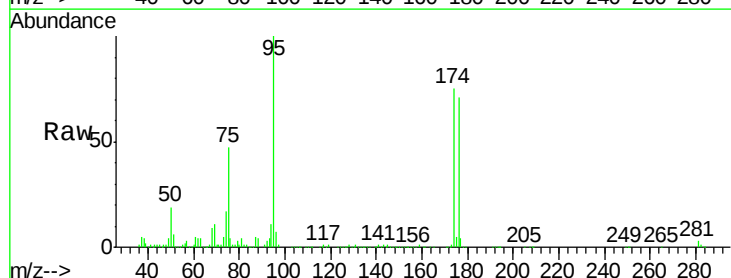
Tgt Ion: 95 Resp: 145621

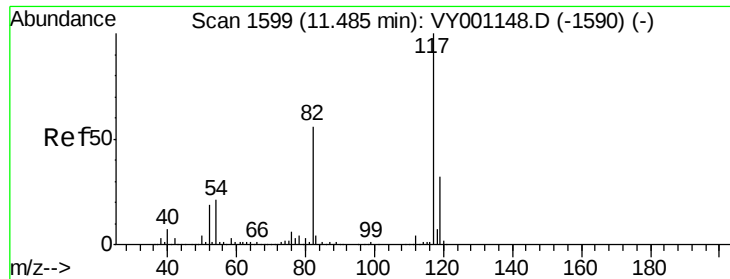
Ion Ratio Lower Upper

95 100

174 76.9 0.0 143.2

176 73.2 0.0 136.0

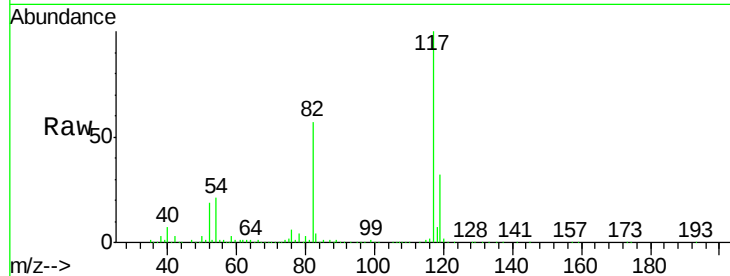




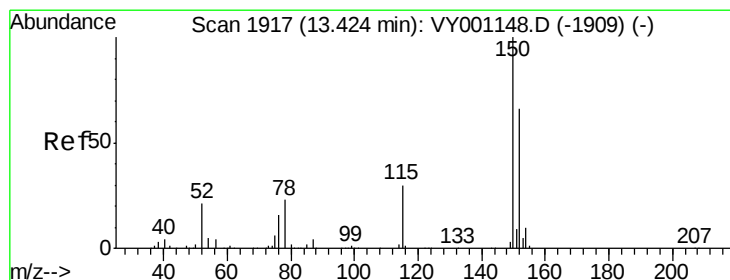
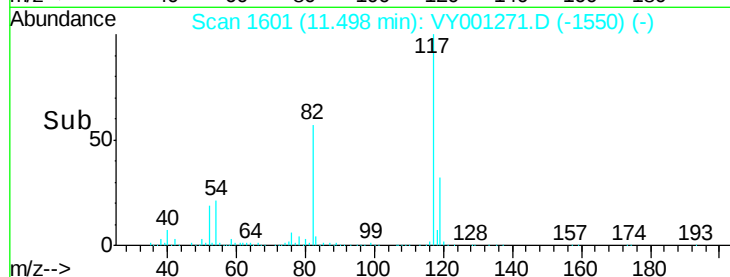
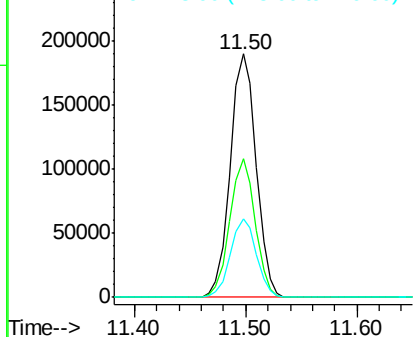
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. 0.01 min  
Lab File: VY001271.D  
Acq: 17 Jan 2020 17:33

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RBR-200028

Tgt Ion:117 Resp: 305138  
Ion Ratio Lower Upper  
117 100  
82 57.1 44.9 67.3  
119 32.3 25.7 38.5

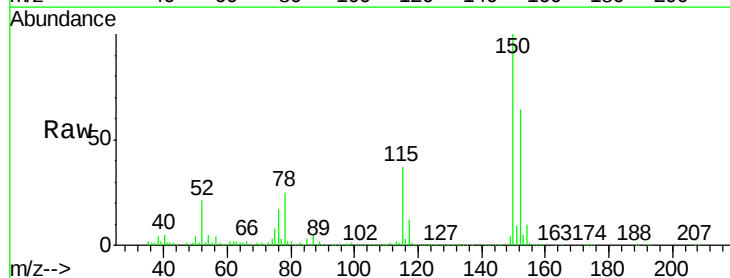


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

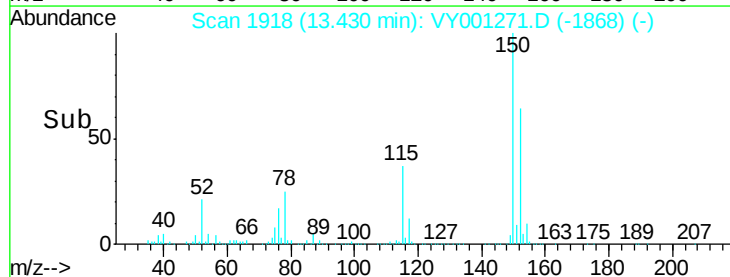
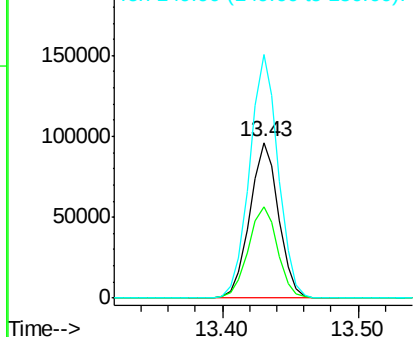


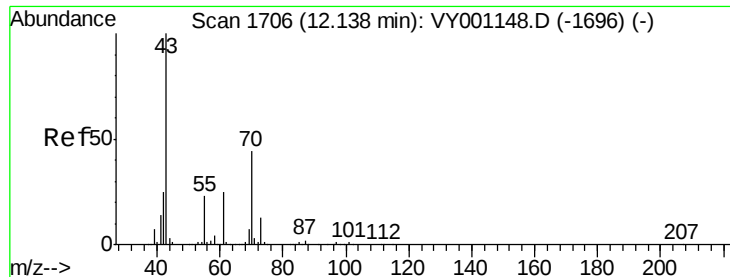
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.43 min Scan# 1918  
Delta R.T. 0.01 min  
Lab File: VY001271.D  
Acq: 17 Jan 2020 17:33

Tgt Ion:152 Resp: 142057  
Ion Ratio Lower Upper  
152 100  
115 60.2 30.9 92.5  
150 156.4 0.0 346.8



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





#74

N-amyI acetate

Concen: 8.65 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.01 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

Instrument :

MSVOA\_Y

ClientSampleId :

RBR-200028

Tgt Ion: 43 Resp: 28844

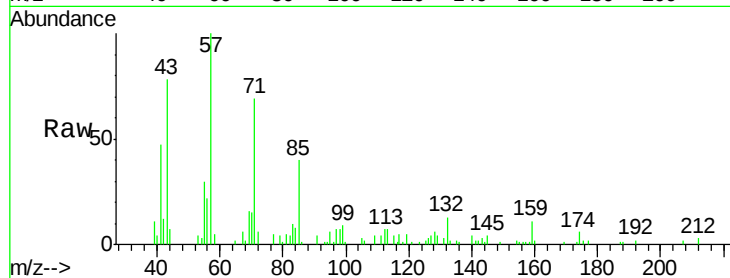
Ion Ratio Lower Upper

43 100

70 6.6 35.0 52.6#

55 2.4 18.4 27.6#

61 0.0 20.1 30.1#

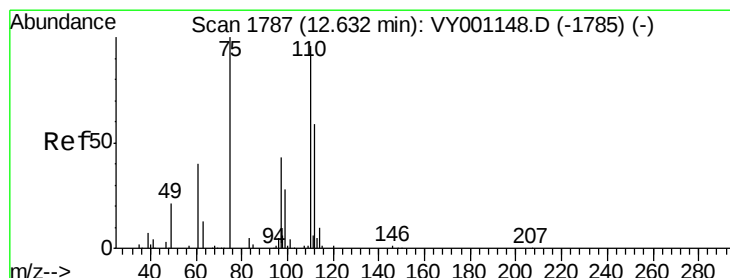
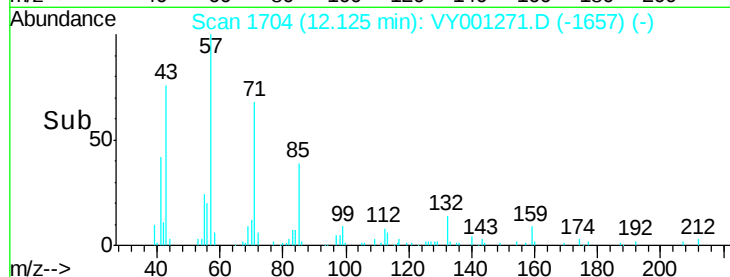
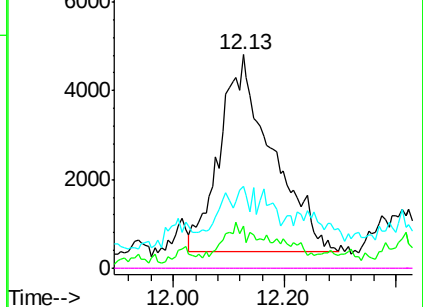


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#76

1,2,3-Trichloropropane

Concen: 46.19 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001271.D

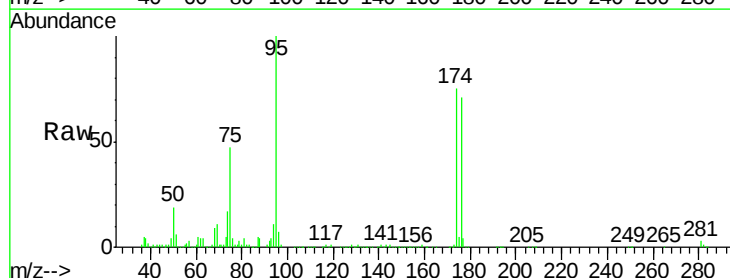
Acq: 17 Jan 2020 17:33

Tgt Ion: 75 Resp: 70241

Ion Ratio Lower Upper

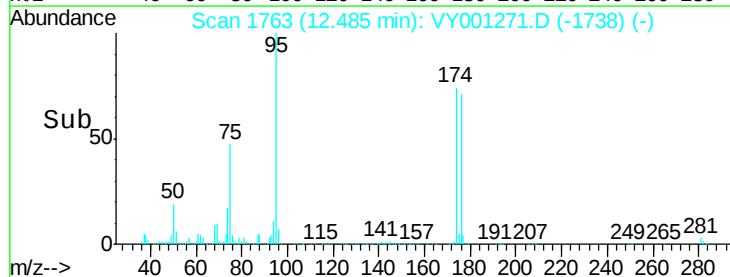
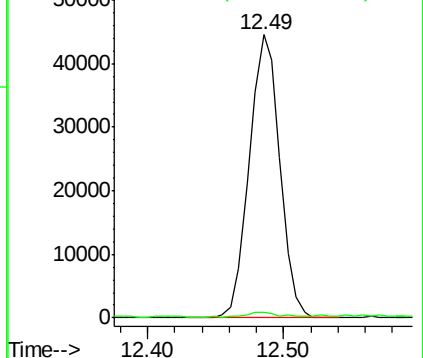
75 100

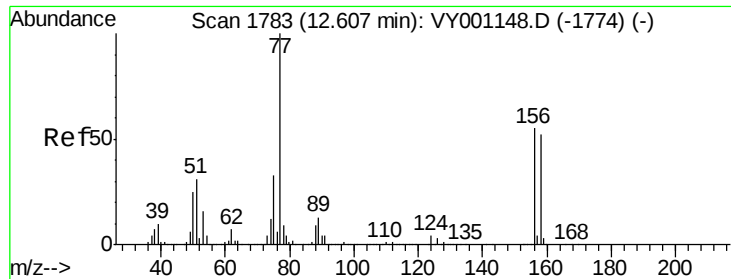
77 2.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 4.05 ug/l

RT: 12.55 min Scan# 1773

Delta R.T. -0.06 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

Instrument :

MSVOA\_Y

ClientSampleId :

RBR-200028

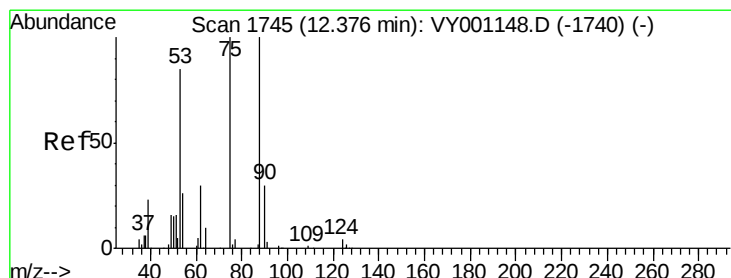
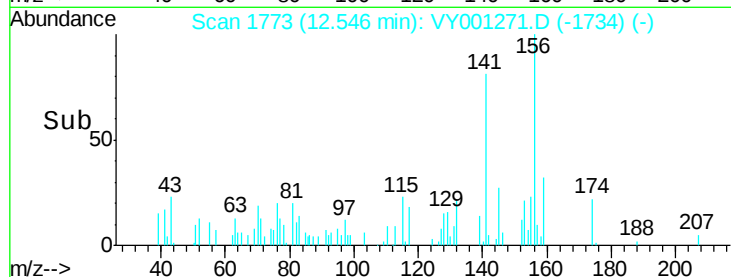
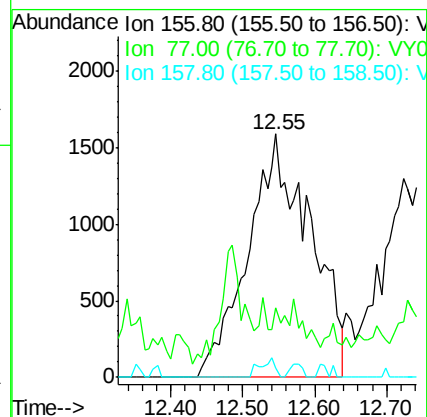
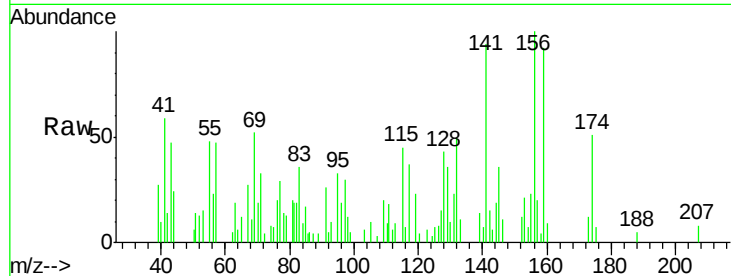
Tgt Ion:156 Resp: 9546

Ion Ratio Lower Upper

156 100

77 0.7 106.7 320.1#

158 1.9 48.3 144.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.33 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.11 min

Lab File: VY001271.D

Acq: 17 Jan 2020 17:33

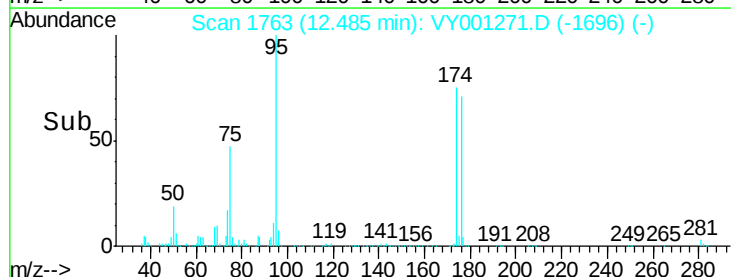
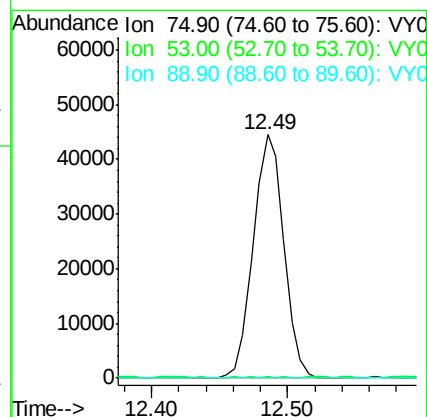
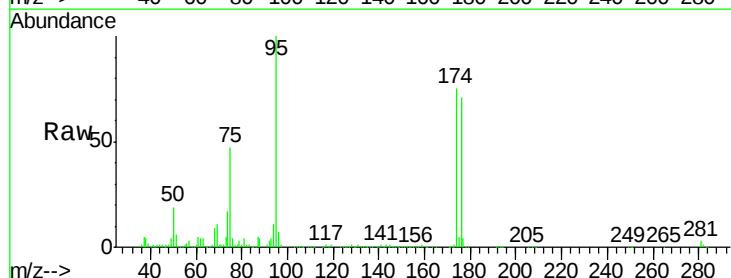
Tgt Ion: 75 Resp: 70241

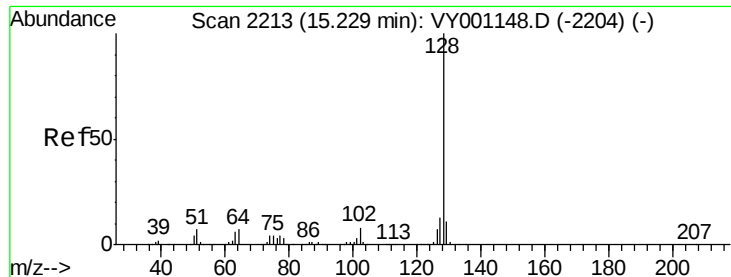
Ion Ratio Lower Upper

75 100

53 0.0 69.4 104.2#

89 0.2 0.0 0.0#





#95  
 Naphthalene  
 Concen: 1.99 ug/l  
 RT: 15.24 min Scan# 2215  
 Delta R.T. 0.01 min  
 Lab File: VY001271.D  
 Acq: 17 Jan 2020 17:33

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RBR-200028

Tgt Ion:128 Resp: 12665  
 Ion Ratio Lower Upper  
 128 100  
 127 16.1 10.2 15.4#  
 129 11.2 8.5 12.7

