

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY020320\  
 Data File : VY001464.D  
 Acq On : 03 Feb 2020 11:13  
 Operator : SY/MD  
 Sample : VY0203SBL01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0203SBL01

Quant Time: Feb 03 13:17:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 166327   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 312170   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 284849   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 128502   | 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   | 100498   | 55.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.06% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 91681    | 50.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.08% |          |
| 50) Toluene-d8              | 10.19 | 98   | 367372   | 51.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.22% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 135677   | 47.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.72%  |          |

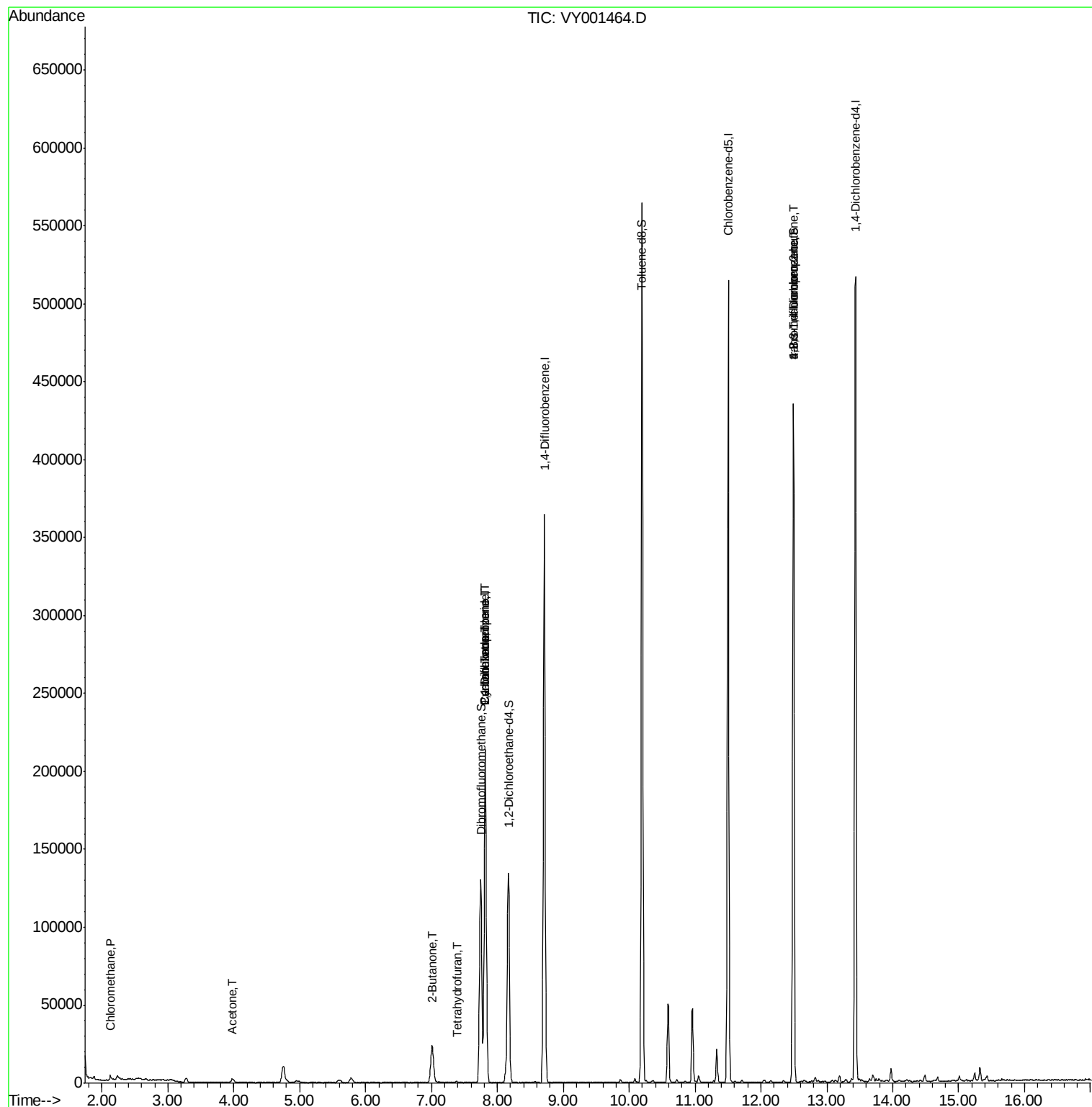
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 3) Chloromethane               | 2.13  | 50   | 2816     | 1.42      | ug/l  | 99     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 1003     | Below Cal | #     | 87     |
| 13) Acrolein                   | 3.75  | 56   | 24       | Below Cal | #     | 15     |
| 16) Acetone                    | 3.97  | 43   | 4742     | 2.44      | ug/l  | 93     |
| 20) Methylene Chloride         | 4.75  | 84   | 7672     | Below Cal |       | 94     |
| 25) 2-Butanone                 | 7.02  | 43   | 3049     | 3.87      | ug/l  | 95     |
| 29) Tetrahydrofuran            | 7.38  | 42   | 613      | 1.20      | ug/l  | # 59   |
| 31) Cyclohexane                | 7.82  | 56   | 3931     | 1.12      | ug/l  | # 15   |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 13659    | 4.63      | ug/l  | # 49   |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 16504    | 6.28      | ug/l  | # 15   |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 67520    | 43.60     | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 67520    | 82.52     | ug/l  | # 14   |

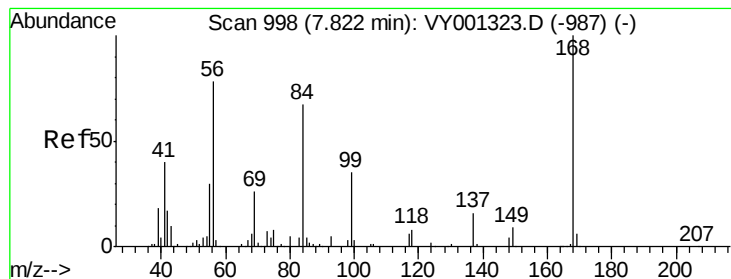
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
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Quant Title : SW846 8260  
QLast Update : Thu Jan 23 01:21:47 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.01 min

Lab File: VY001464.D

Acq: 03 Feb 2020 11:13

Instrument :

MSVOA\_Y

ClientSampleId :

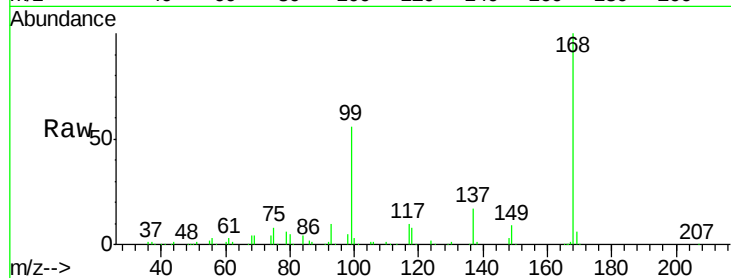
VY0203SBL01

Tgt Ion: 168 Resp: 166327

Ion Ratio Lower Upper

168 100

99 56.3 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

7.82

80000

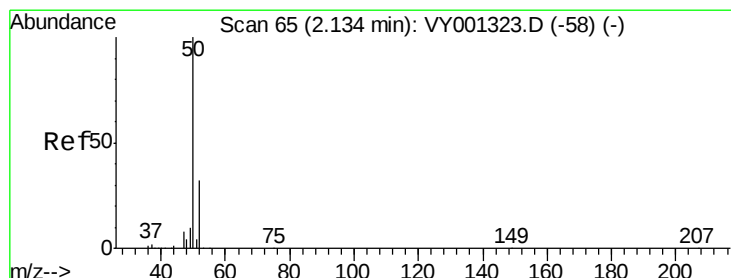
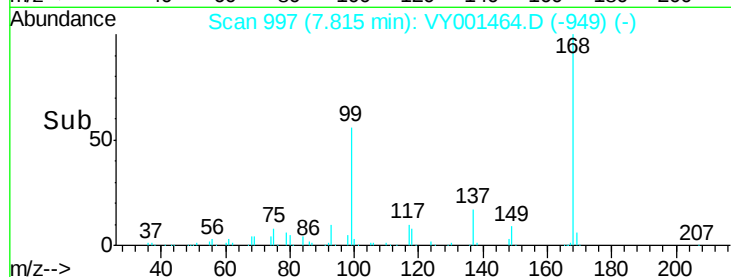
60000

40000

20000

0

Time--> 7.70 7.80 7.90



#3

Chloromethane

Concen: 1.42 ug/l

RT: 2.13 min Scan# 64

Delta R.T. -0.01 min

Lab File: VY001464.D

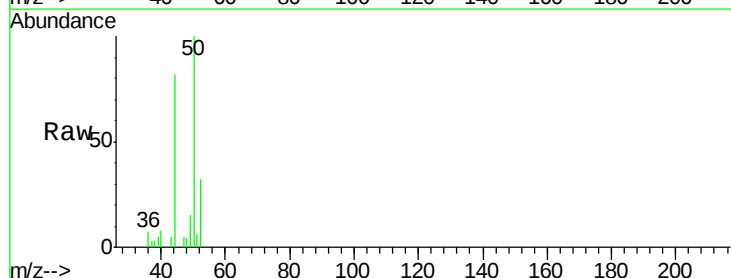
Acq: 03 Feb 2020 11:13

Tgt Ion: 50 Resp: 2816

Ion Ratio Lower Upper

50 100

52 31.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0

2.13

2000

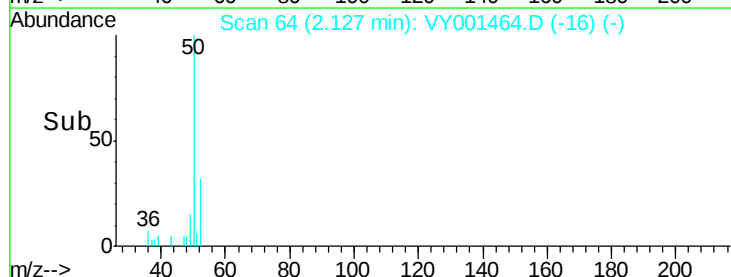
1500

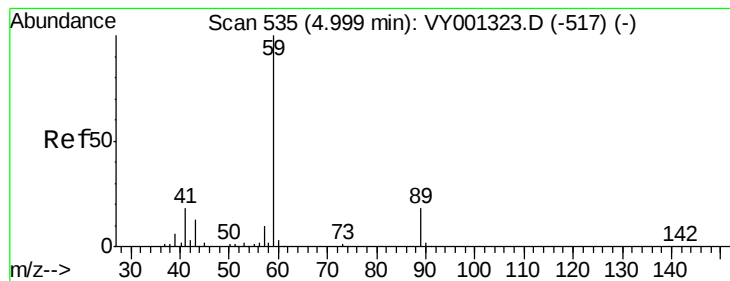
1000

500

0

Time--> 2.05 2.10 2.15 2.20



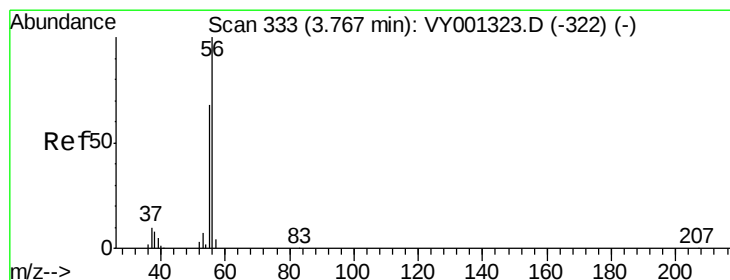
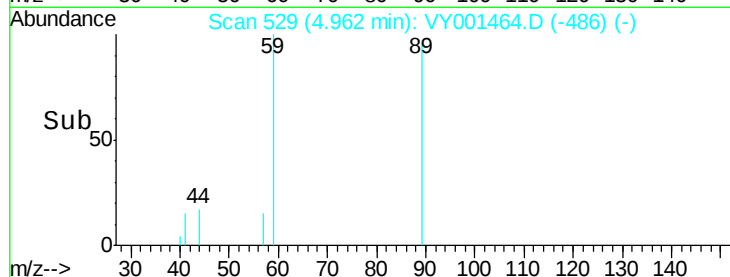
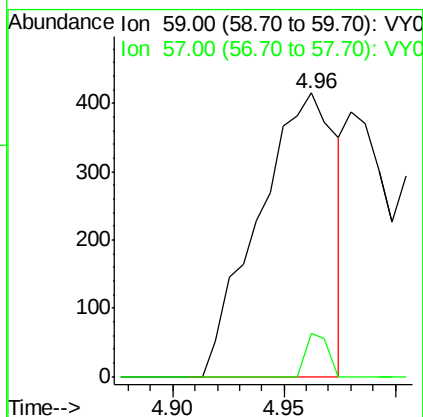
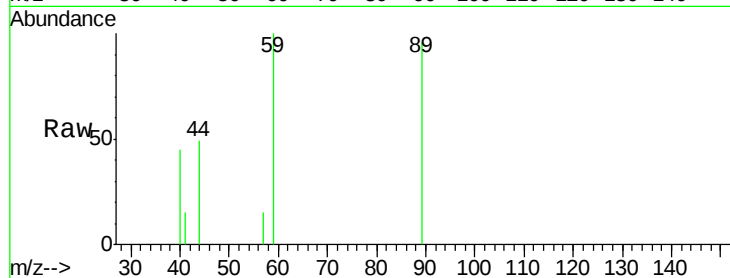


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.96 min Scan# 529  
 Delta R.T. -0.04 min  
 Lab File: VY001464.D  
 Acq: 03 Feb 2020 11:13

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0203SBL01

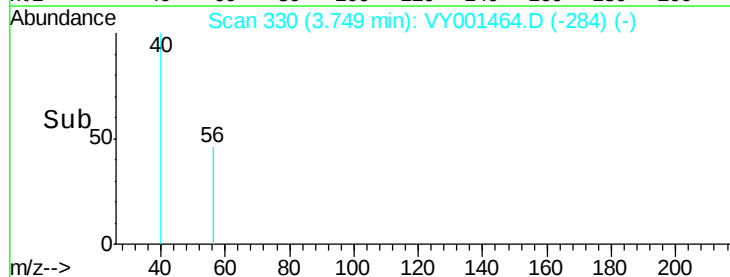
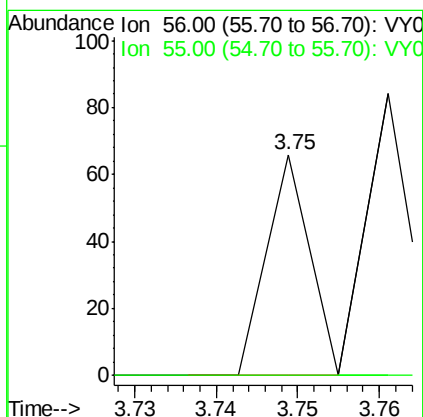
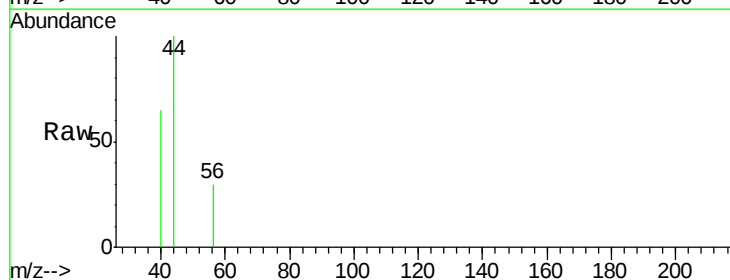
Tgt Ion: 59 Resp: 1003  
 Ion Ratio Lower Upper  
 59 100  
 57 4.4 7.4 11.2#

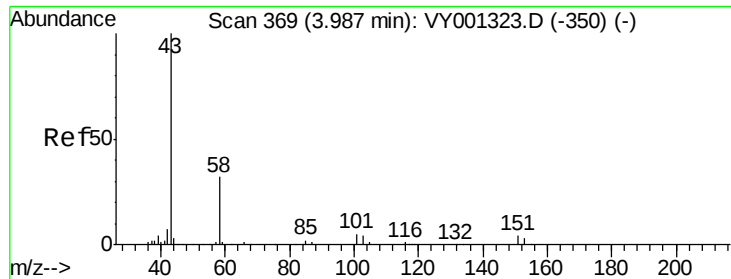


#13

Acrolein  
 Concen: Below Cal  
 RT: 3.75 min Scan# 330  
 Delta R.T. -0.02 min  
 Lab File: VY001464.D  
 Acq: 03 Feb 2020 11:13

Tgt Ion: 56 Resp: 24  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 55.9 83.9#

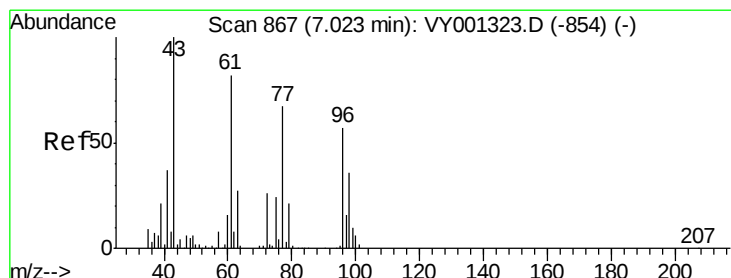
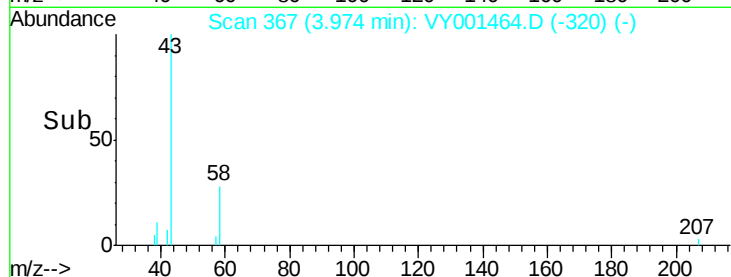
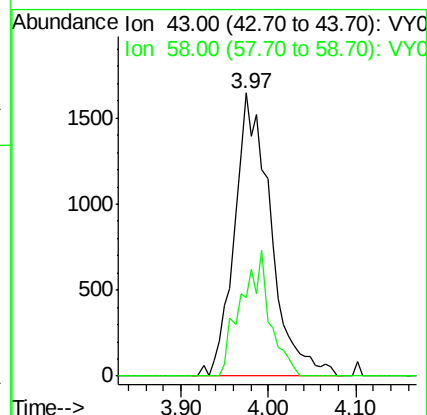
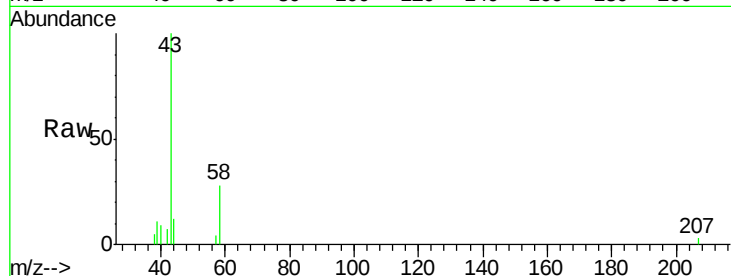




#16  
Acetone  
Concen: 2.44 ug/l  
RT: 3.97 min Scan# 367  
Delta R.T. -0.01 min  
Lab File: VY001464.D  
Acq: 03 Feb 2020 11:13

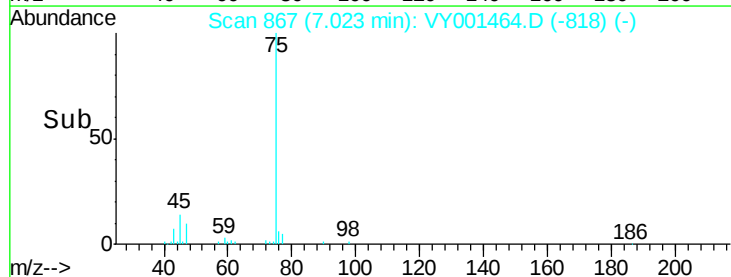
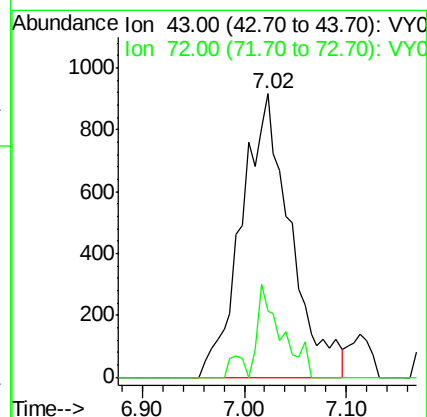
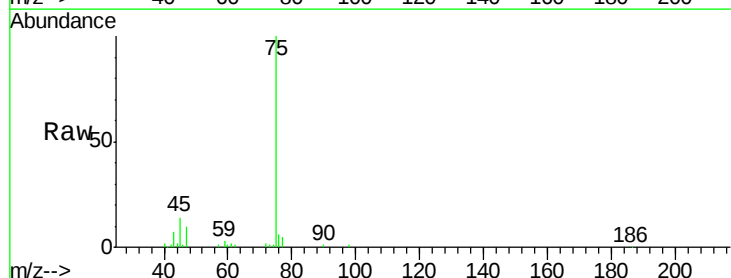
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0203SBL01

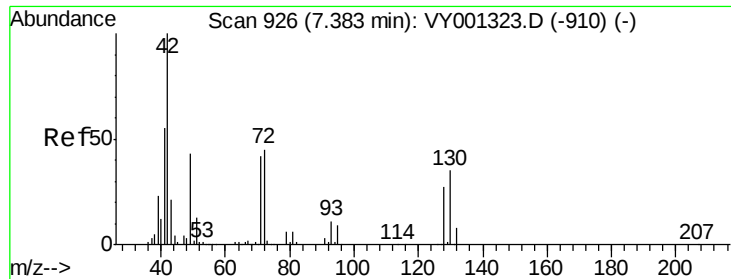
Tgt Ion: 43 Resp: 4742  
Ion Ratio Lower Upper  
43 100  
58 27.6 25.4 38.0



#25  
2-Butanone  
Concen: 3.87 ug/l  
RT: 7.02 min Scan# 867  
Delta R.T. -0.00 min  
Lab File: VY001464.D  
Acq: 03 Feb 2020 11:13

Tgt Ion: 43 Resp: 3049  
Ion Ratio Lower Upper  
43 100  
72 23.5 20.6 31.0

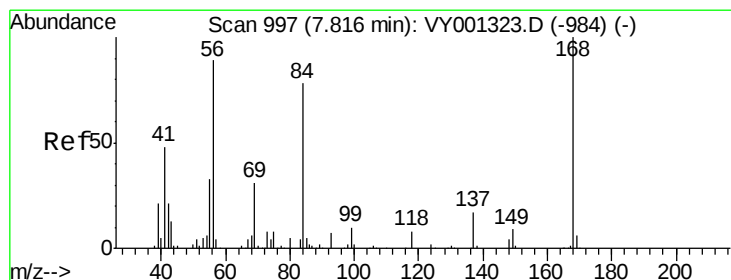
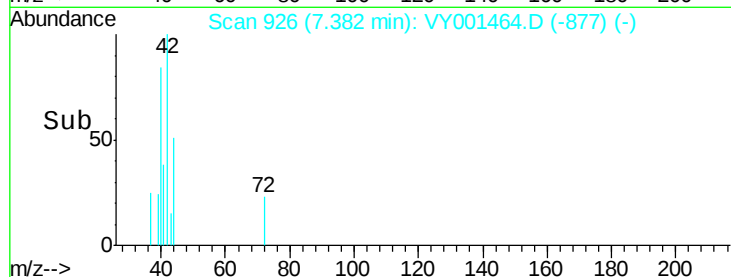
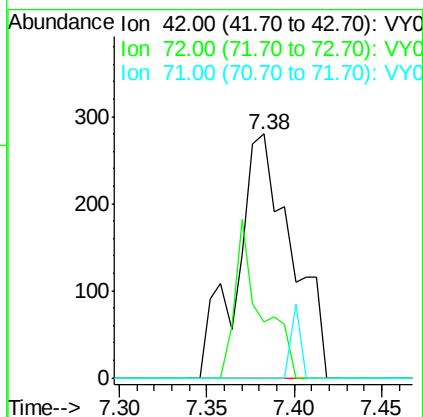
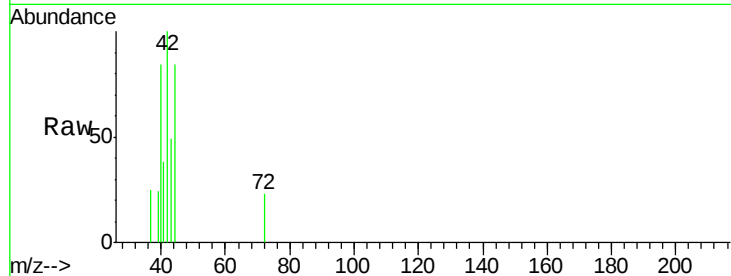




#29  
Tetrahydrofuran  
Concen: 1.20 ug/l  
RT: 7.38 min Scan# 926  
Delta R.T. -0.00 min  
Lab File: VY001464.D  
Acq: 03 Feb 2020 11:13

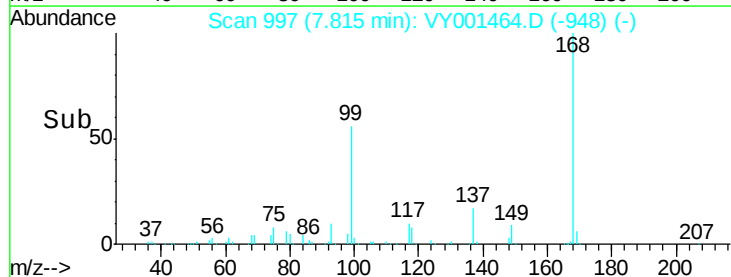
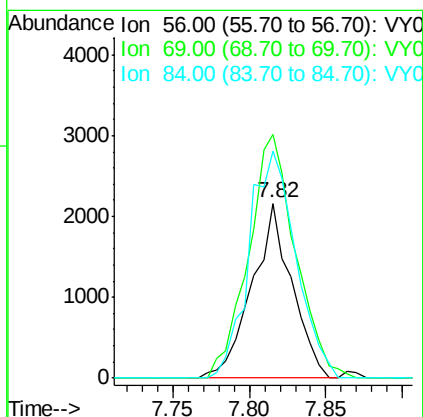
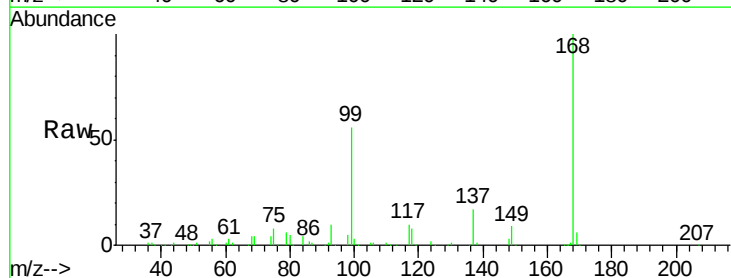
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0203SBL01

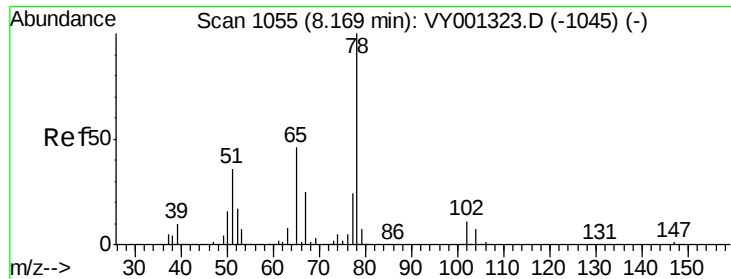
Tgt Ion: 42 Resp: 613  
Ion Ratio Lower Upper  
42 100  
72 31.2 34.6 51.8#  
71 0.0 32.6 48.8#



#31  
Cyclohexane  
Concen: 1.12 ug/l  
RT: 7.82 min Scan# 997  
Delta R.T. -0.00 min  
Lab File: VY001464.D  
Acq: 03 Feb 2020 11:13

Tgt Ion: 56 Resp: 3931  
Ion Ratio Lower Upper  
56 100  
69 139.4 27.6 41.4#  
84 130.3 69.7 104.5#





#33

1,2-Dichloroethane-d4

Concen: 55.53 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VY001464.D

Acq: 03 Feb 2020 11:13

Instrument :

MSVOA\_Y

ClientSampleId :

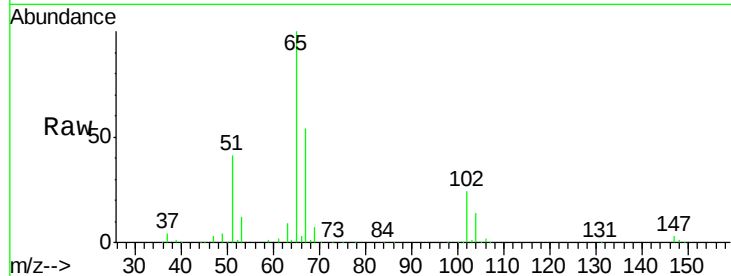
VY0203SBL01

Tgt Ion: 65 Resp: 100498

Ion Ratio Lower Upper

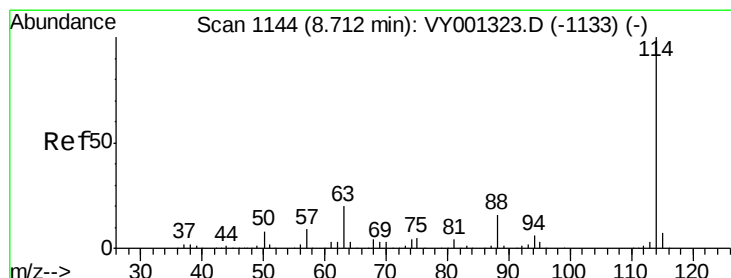
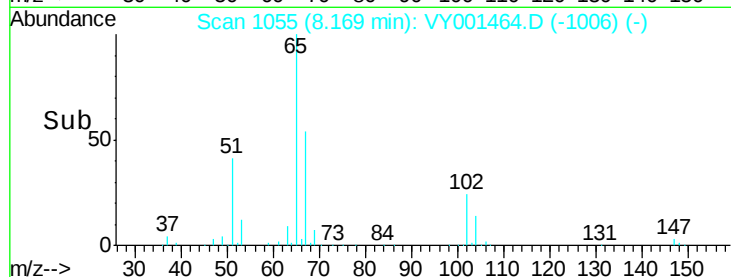
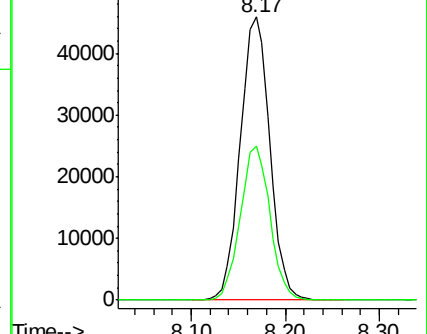
65 100

67 54.6 0.0 108.6



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. -0.00 min

Lab File: VY001464.D

Acq: 03 Feb 2020 11:13

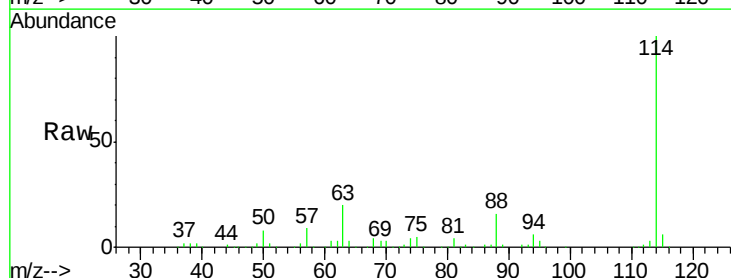
Tgt Ion: 114 Resp: 312170

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

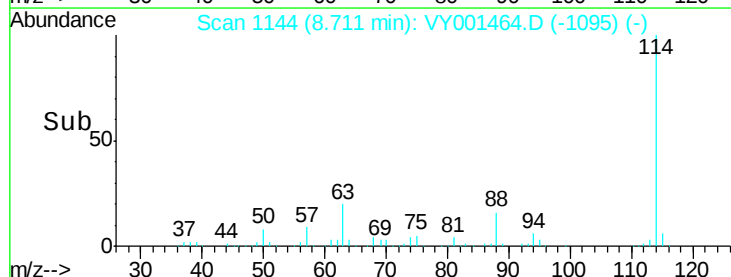
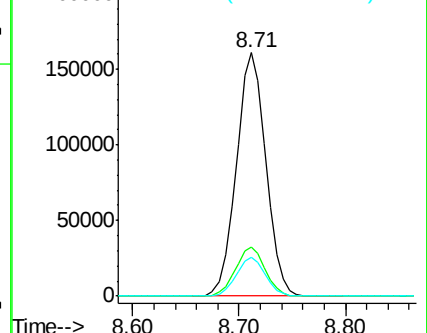
88 15.7 0.0 31.0

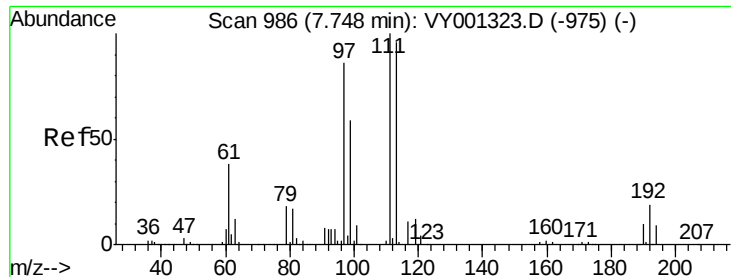


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

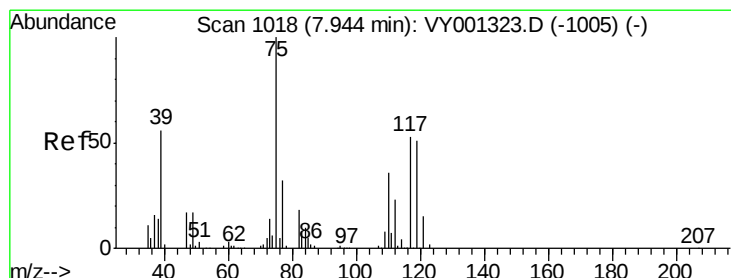
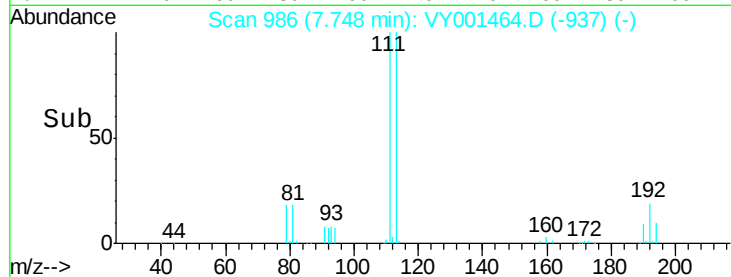
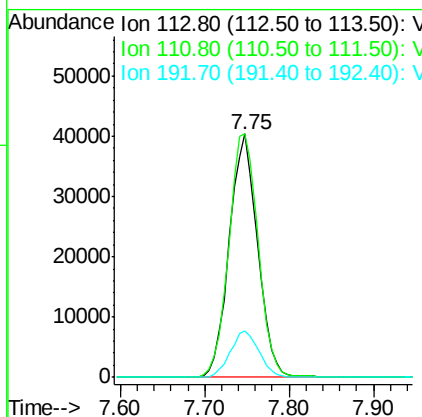
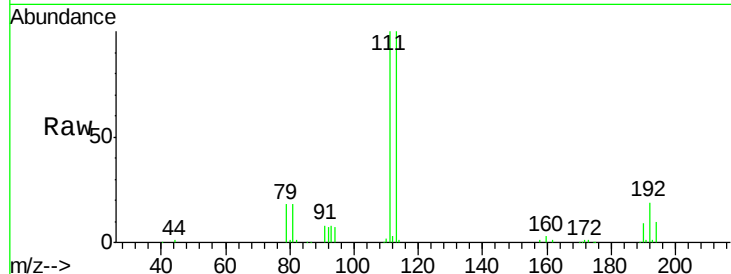




#35  
 Dibromofluoromethane  
 Concen: 50.04 ug/l  
 RT: 7.75 min Scan# 986  
 Delta R.T. -0.00 min  
 Lab File: VY001464.D  
 Acq: 03 Feb 2020 11:13

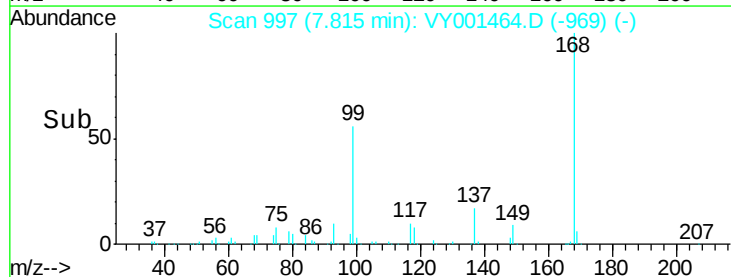
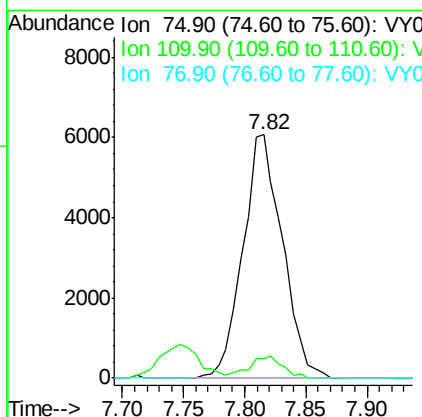
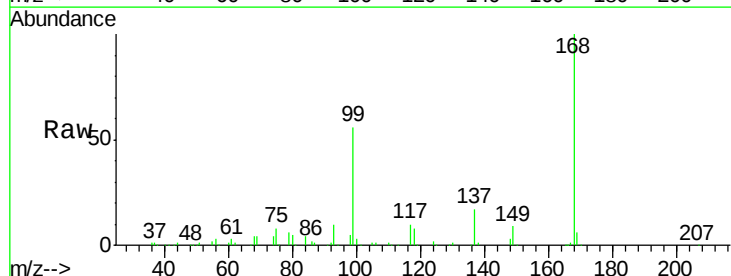
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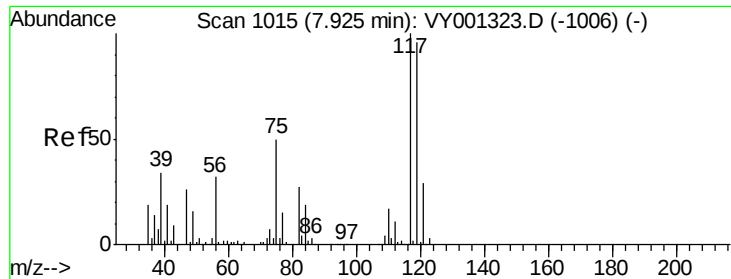
Tgt Ion: 113 Resp: 91681  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 82.8 124.2  
 192 19.2 15.5 23.3



#36  
 1,1-Dichloropropene  
 Concen: 4.63 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.13 min  
 Lab File: VY001464.D  
 Acq: 03 Feb 2020 11:13

Tgt Ion: 75 Resp: 13659  
 Ion Ratio Lower Upper  
 75 100  
 110 7.8 17.6 52.8#  
 77 0.0 24.7 37.1#

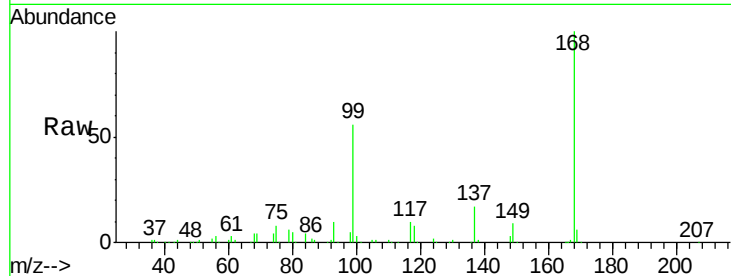




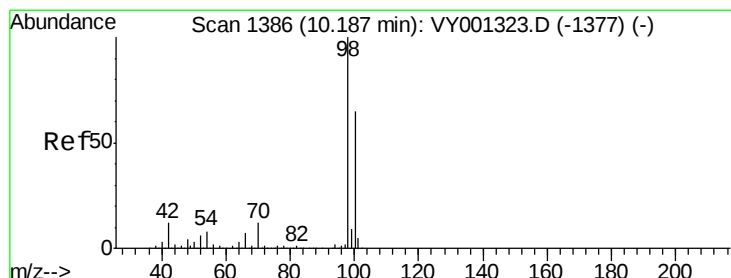
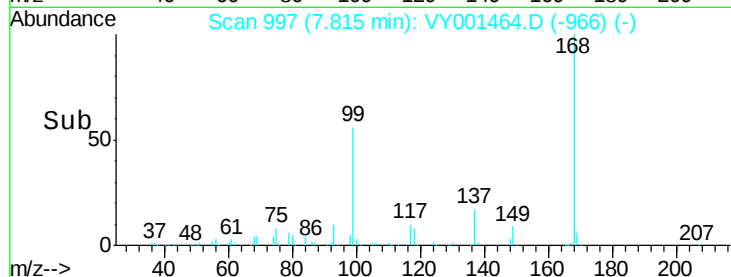
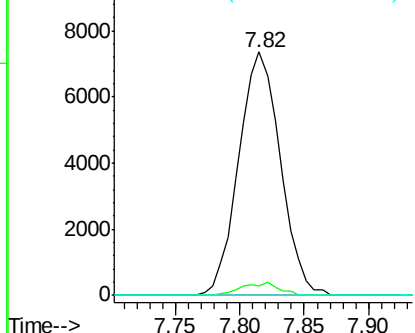
#38  
Carbon Tetrachloride  
Concen: 6.28 ug/l  
RT: 7.82 min Scan# 997  
Delta R.T. -0.11 min  
Lab File: VY001464.D  
Acq: 03 Feb 2020 11:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0203SBL01

Tgt Ion:117 Resp: 16504  
Ion Ratio Lower Upper  
117 100  
119 4.1 76.3 114.5#  
121 0.0 23.5 35.3#

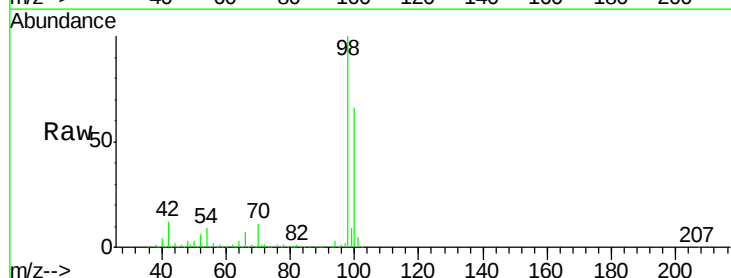


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

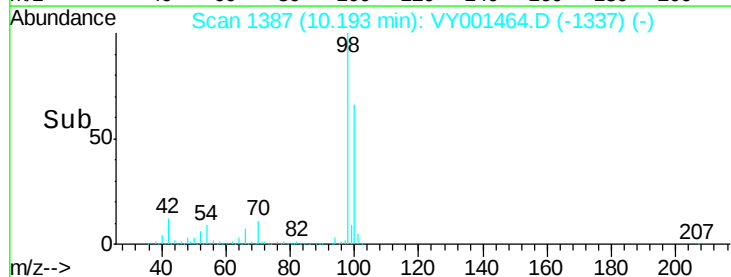
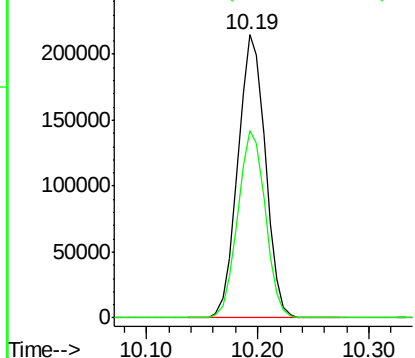


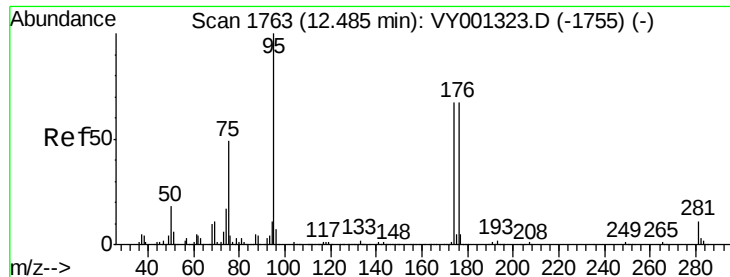
#50  
Toluene-d8  
Concen: 51.61 ug/l  
RT: 10.19 min Scan# 1387  
Delta R.T. 0.01 min  
Lab File: VY001464.D  
Acq: 03 Feb 2020 11:13

Tgt Ion: 98 Resp: 367372  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY0  
Ion 100.00 (99.70 to 100.70): VY

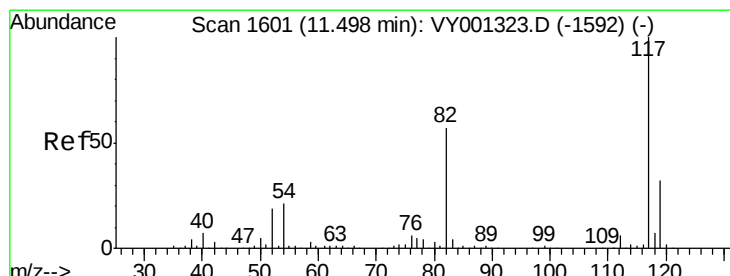
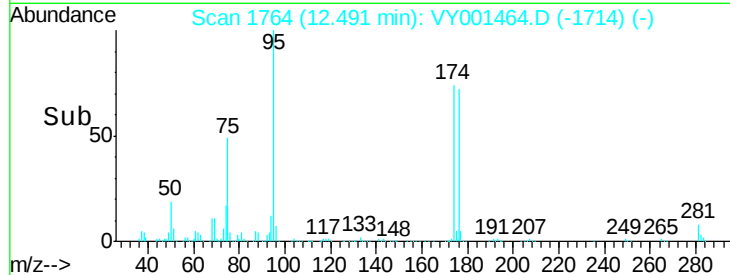
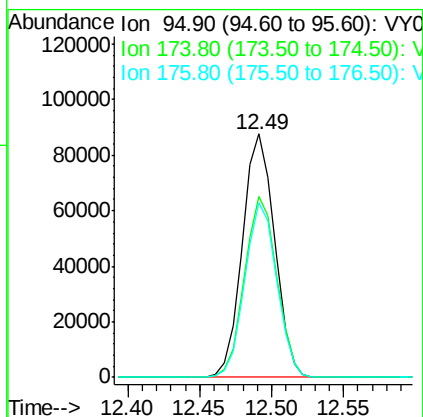
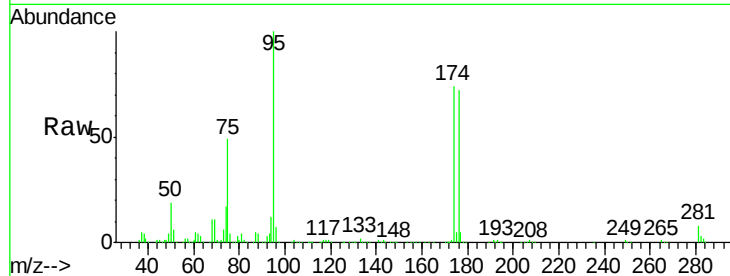




#62  
4-Bromofluorobenzene  
Concen: 47.86 ug/l  
RT: 12.49 min Scan# 1764  
Delta R.T. 0.01 min  
Lab File: VY001464.D  
Acq: 03 Feb 2020 11:13

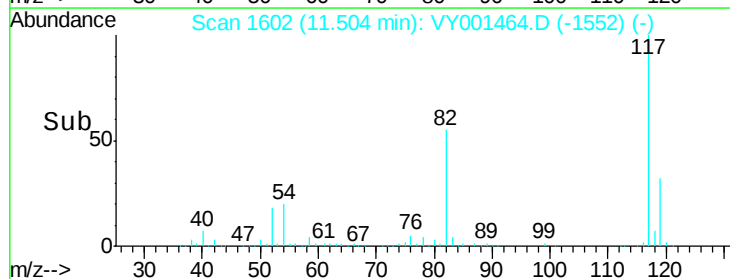
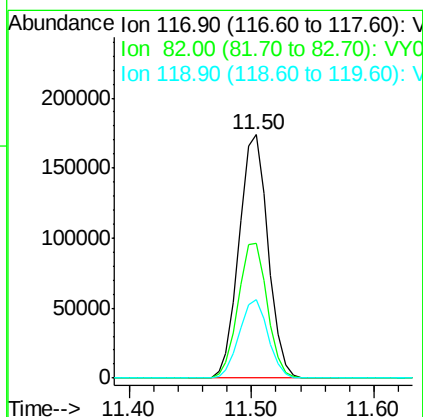
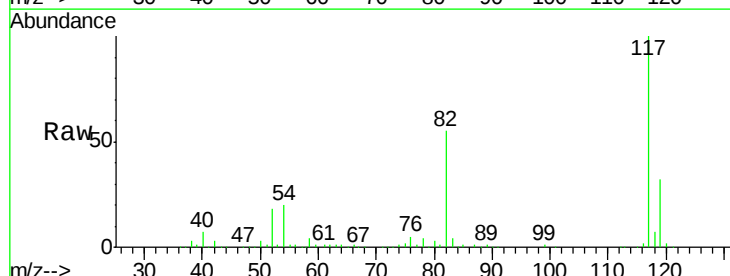
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0203SBL01

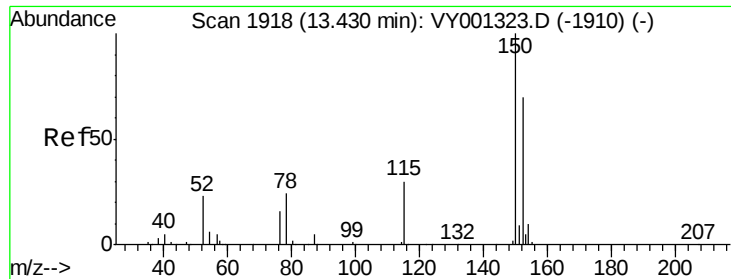
Tgt Ion: 95 Resp: 135677  
Ion Ratio Lower Upper  
95 100  
174 74.1 0.0 142.0  
176 70.7 0.0 138.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.01 min  
Lab File: VY001464.D  
Acq: 03 Feb 2020 11:13

Tgt Ion: 117 Resp: 284849  
Ion Ratio Lower Upper  
117 100  
82 55.4 45.5 68.3  
119 32.1 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.01 min

Lab File: VY001464.D

Acq: 03 Feb 2020 11:13

Instrument :

MSVOA\_Y

ClientSampleId :

VY0203SBL01

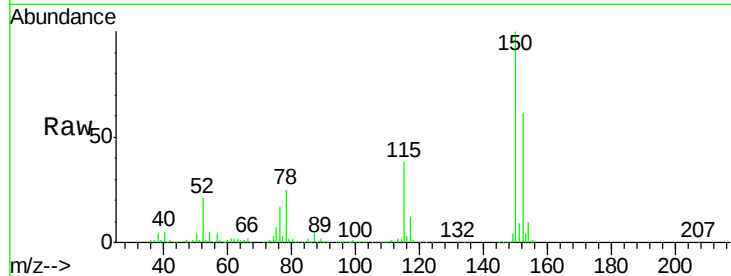
Tgt Ion:152 Resp: 128502

Ion Ratio Lower Upper

152 100

115 60.5 30.9 92.8

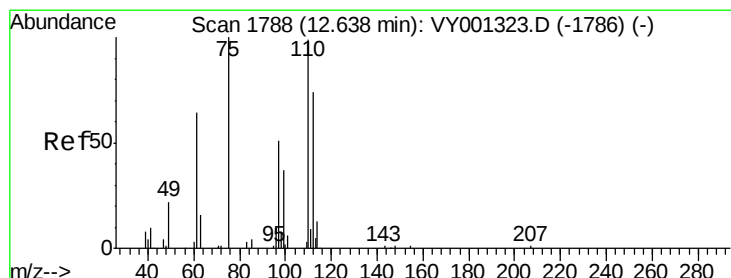
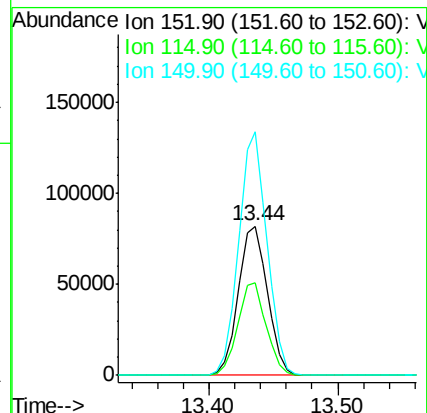
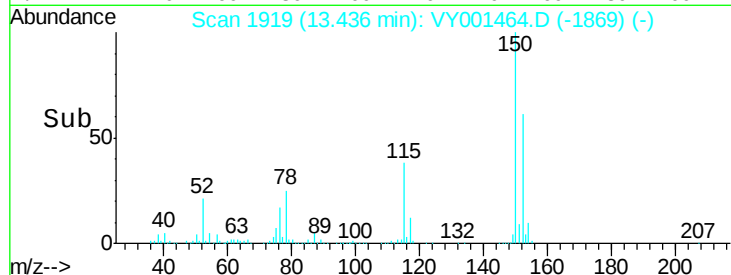
150 158.2 0.0 349.2



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: 43.60 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001464.D

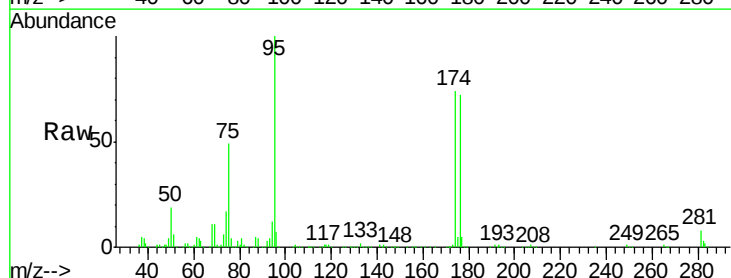
Acq: 03 Feb 2020 11:13

Tgt Ion: 75 Resp: 67520

Ion Ratio Lower Upper

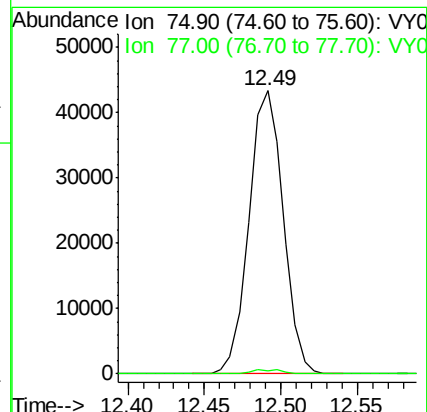
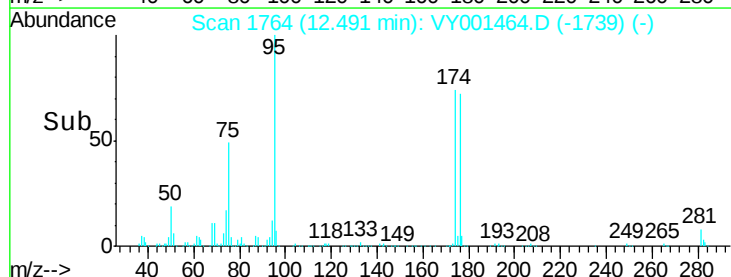
75 100

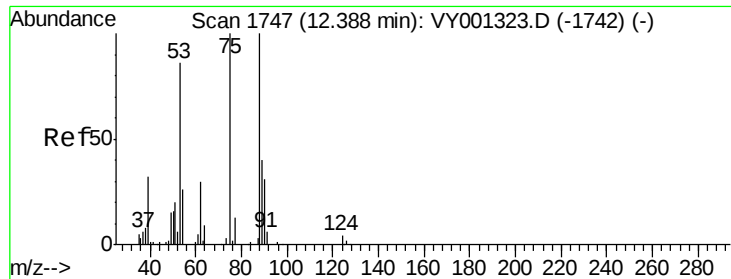
77 1.5 0.0 0.0#



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: 82.52 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001464.D

Acq: 03 Feb 2020 11:13

Instrument :

MSVOA\_Y

ClientSampleId :

VY0203SBL01

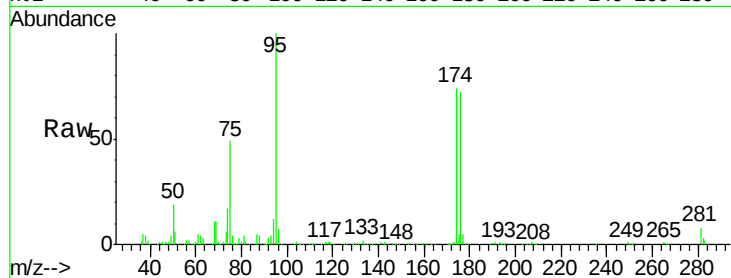
Tgt Ion: 75 Resp: 67520

Ion Ratio Lower Upper

75 100

53 0.0 69.9 104.9#

89 0.1 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

