

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY012720\  
 Data File : VY001400.D  
 Acq On : 27 Jan 2020 12:56  
 Operator : SY/MD  
 Sample : VY0127SBL01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0127SBL01

Quant Time: Jan 27 13:41:21 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  | 188429   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 347101   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 315325   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 144154   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 113973   | 55.59 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 111.18% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 103380   | 50.75 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.50% |          |
| 50) Toluene-d8              | 10.19 | 98   | 412155   | 52.07 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.14% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 149362   | 47.39 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.78%  |          |

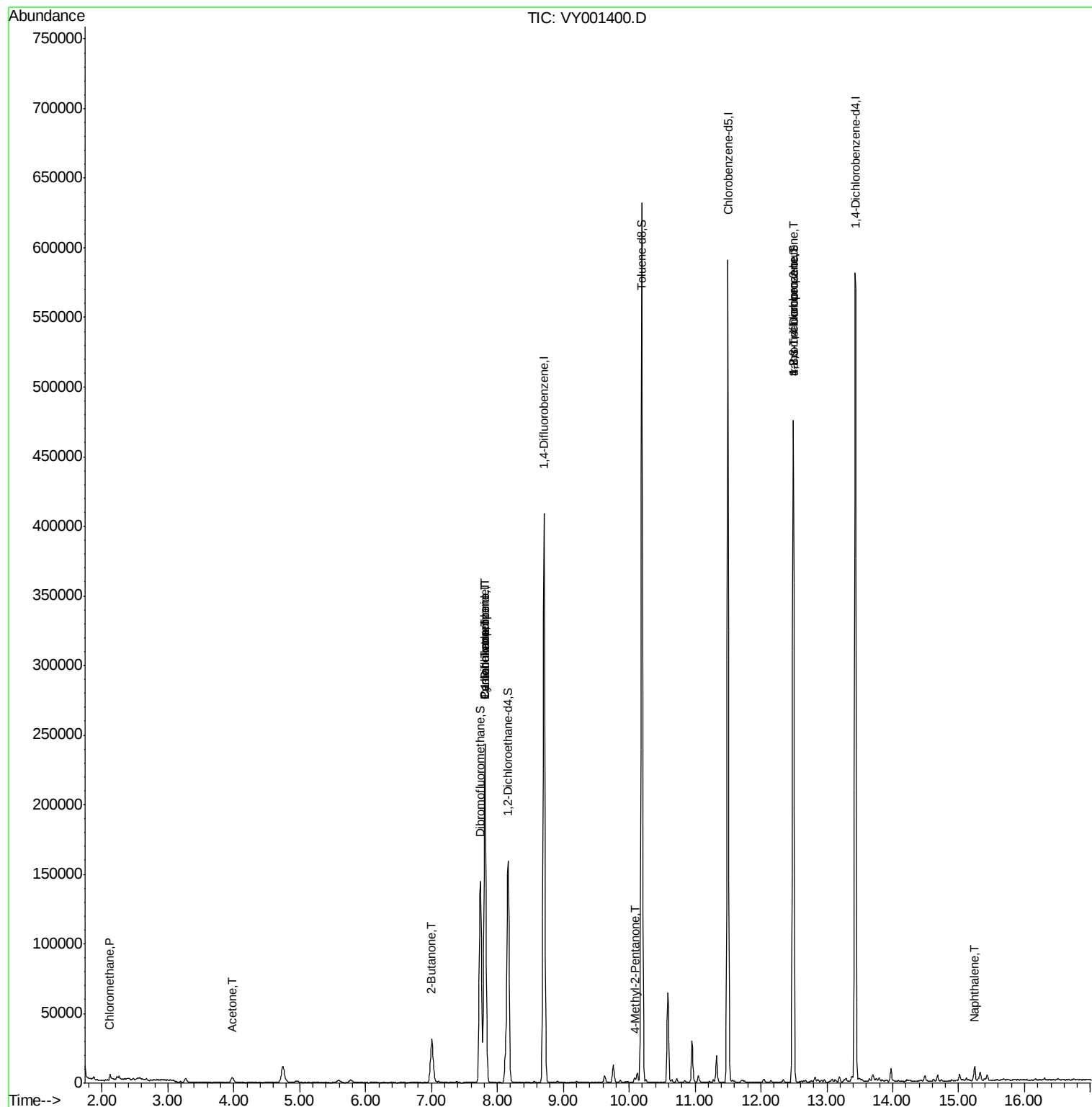
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 3) Chloromethane               | 2.12  | 50   | 3366     | 1.50      | ug/l  | 95     |
| 11) Tert butyl alcohol         | 4.97  | 59   | 1328     | Below Cal | #     | 74     |
| 13) Acrolein                   | 3.74  | 56   | 44       | Below Cal | #     | 55     |
| 16) Acetone                    | 3.97  | 43   | 6935     | 5.42      | ug/l  | 100    |
| 20) Methylene Chloride         | 4.74  | 84   | 8726     | Below Cal |       | 92     |
| 25) 2-Butanone                 | 7.00  | 43   | 3246     | 3.64      | ug/l  | # 83   |
| 31) Cyclohexane                | 7.81  | 56   | 4132     | 1.04      | ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 7.81  | 75   | 15256    | 4.65      | ug/l  | # 49   |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 18494    | 6.33      | ug/l  | # 16   |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 2580     | 1.29      | ug/l  | # 84   |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 75534    | 43.48     | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 75534    | 82.29     | ug/l  | # 14   |
| 95) Naphthalene                | 15.25 | 128  | 7891     | 1.15      | ug/l  | 99     |

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

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Sample : VY0127SBL01  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0127SBL01

Quant Time: Jan 27 13:41:21 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
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: VY001400.D

Acq: 27 Jan 2020 12:56

Instrument :

MSVOA\_Y

ClientSampleId :

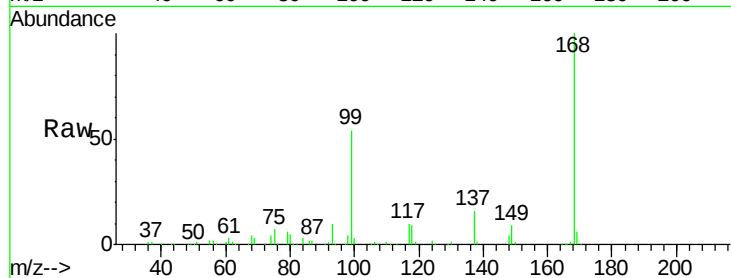
VY0127SBL01

Tgt Ion:168 Resp: 188429

Ion Ratio Lower Upper

168 100

99 53.8 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)

7.82

80000

60000

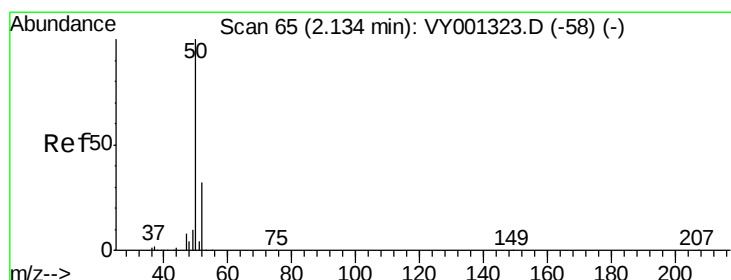
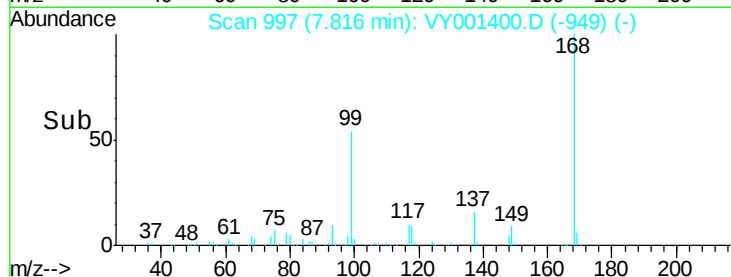
40000

20000

0

7.70 7.80 7.90

Time-->



#3

Chloromethane

Concen: 1.50 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.01 min

Lab File: VY001400.D

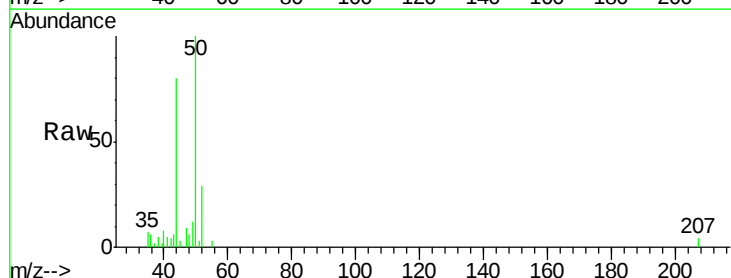
Acq: 27 Jan 2020 12:56

Tgt Ion: 50 Resp: 3366

Ion Ratio Lower Upper

50 100

52 29.2 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VY001323.D (-58) (-)

Ion 51.90 (51.60 to 52.60): VY001323.D (-58) (-)

2.12

2500

2000

1500

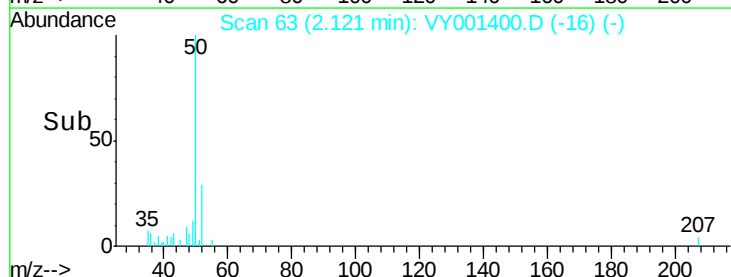
1000

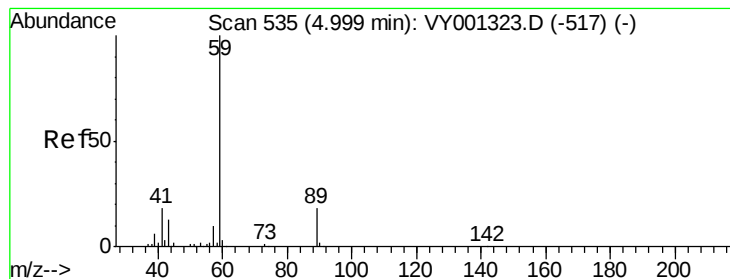
500

0

2.05 2.10 2.15 2.20

Time-->



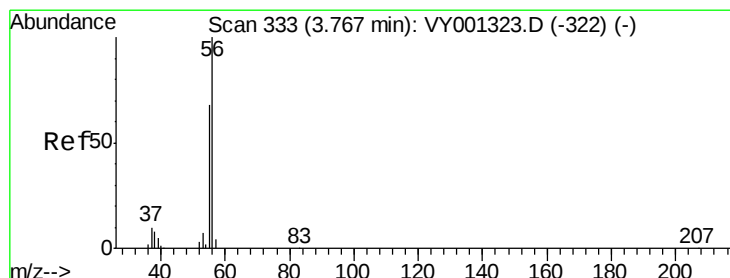
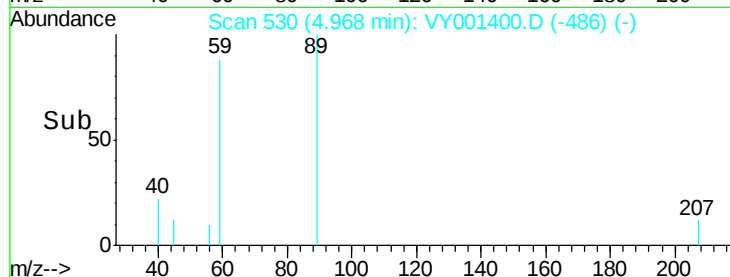
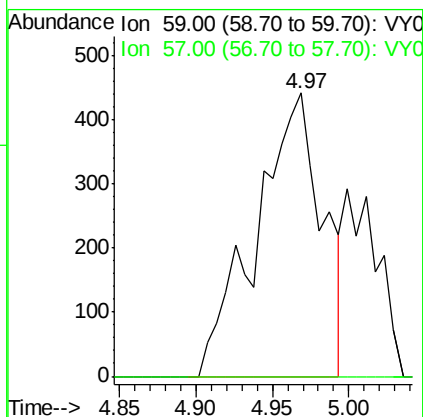
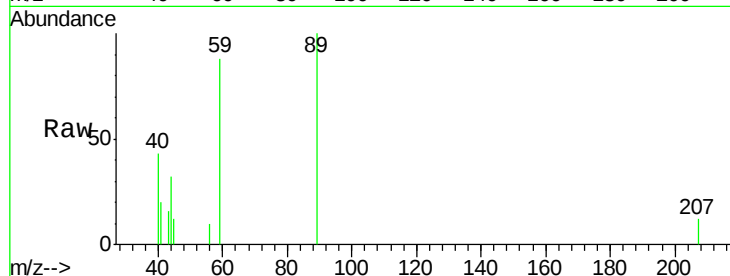


#11

Tert butyl alcohol  
Concen: Below Cal  
RT: 4.97 min Scan# 530  
Delta R.T. -0.03 min  
Lab File: VY001400.D  
Acq: 27 Jan 2020 12:56

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0127SBL01

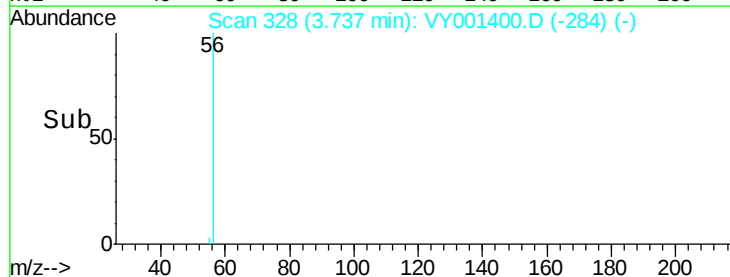
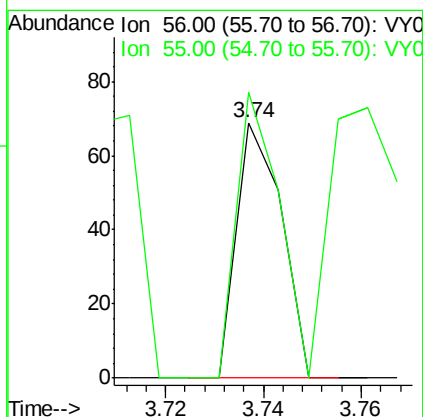
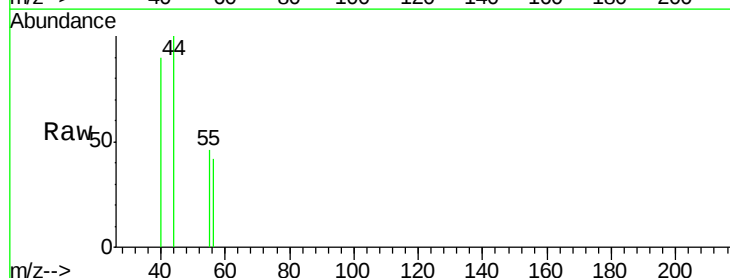
Tgt Ion: 59 Resp: 1328  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#

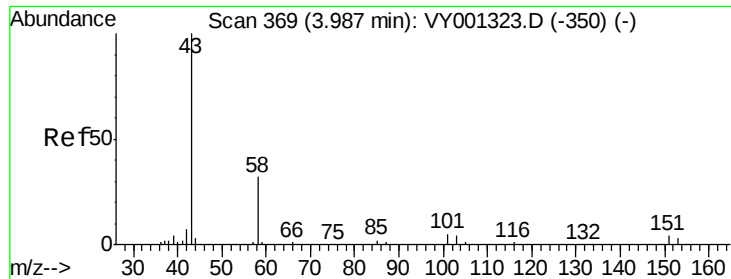


#13

Acrolein  
Concen: Below Cal  
RT: 3.74 min Scan# 328  
Delta R.T. -0.03 min  
Lab File: VY001400.D  
Acq: 27 Jan 2020 12:56

Tgt Ion: 56 Resp: 44  
Ion Ratio Lower Upper  
56 100  
55 106.8 55.9 83.9#





#16

Acetone

Concen: 5.42 ug/l

RT: 3.97 min Scan# 367

Delta R.T. -0.01 min

Lab File: VY001400.D

Acq: 27 Jan 2020 12:56

Instrument :

MSVOA\_Y

ClientSampleId :

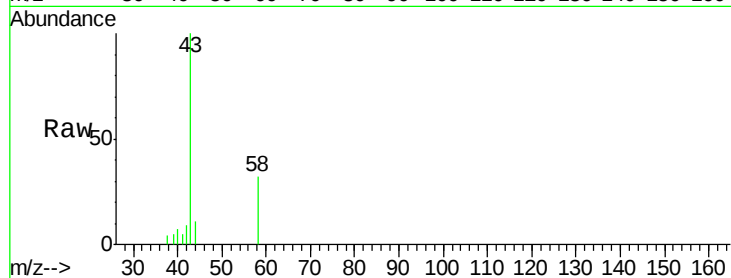
VY0127SBL01

Tgt Ion: 43 Resp: 6935

Ion Ratio Lower Upper

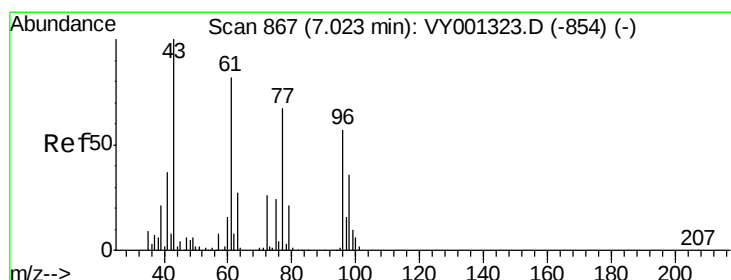
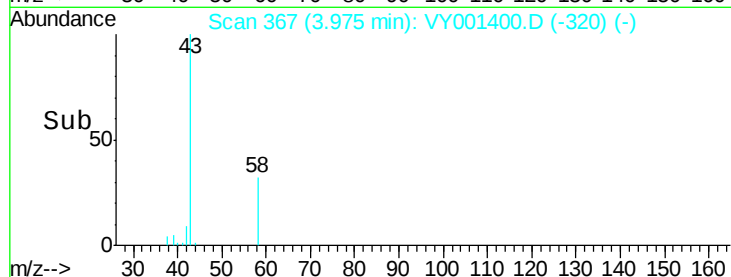
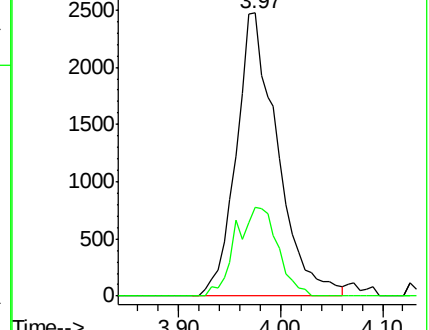
43 100

58 31.5 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#25

2-Butanone

Concen: 3.64 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.02 min

Lab File: VY001400.D

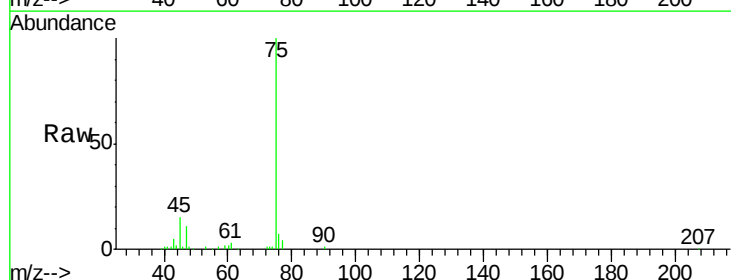
Acq: 27 Jan 2020 12:56

Tgt Ion: 43 Resp: 3246

Ion Ratio Lower Upper

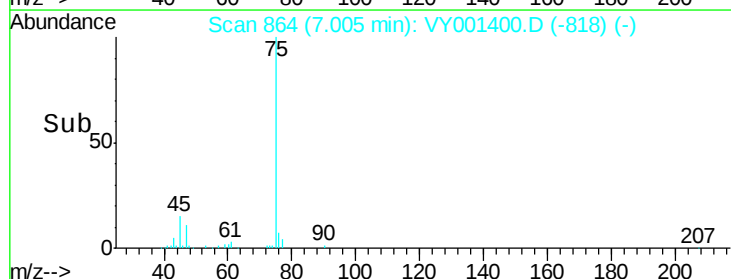
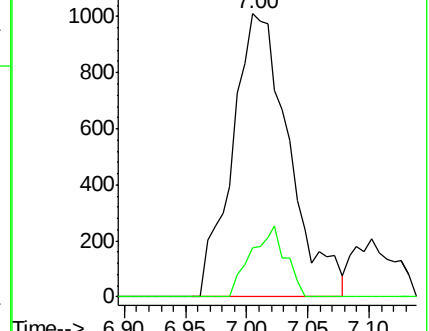
43 100

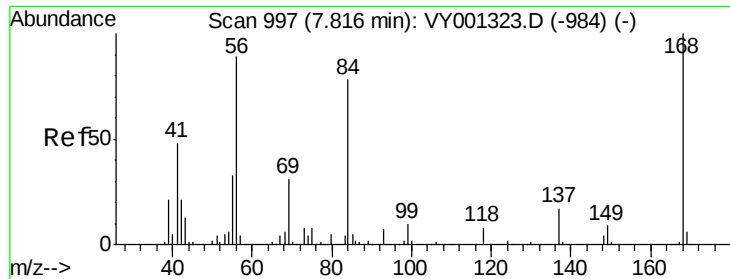
72 17.2 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

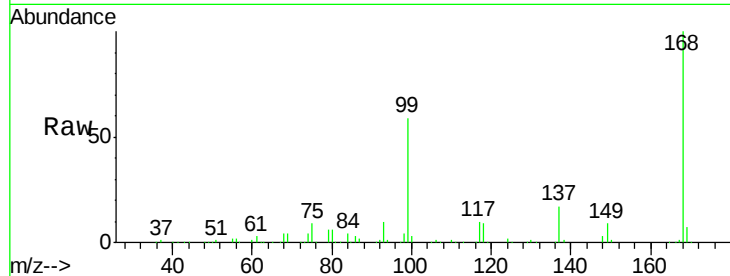




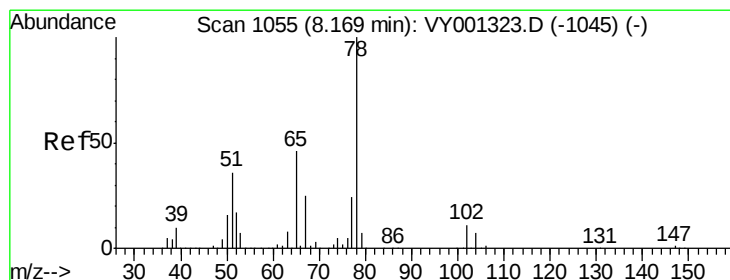
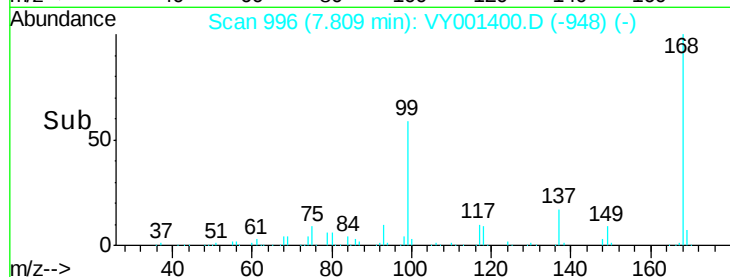
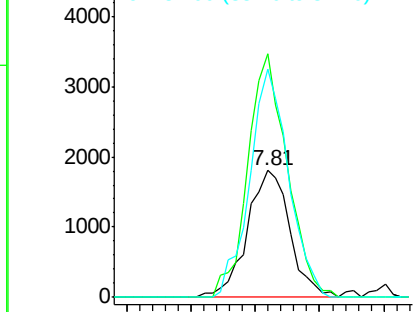
#31  
Cyclohexane  
Concen: 1.04 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. -0.01 min  
Lab File: VY001400.D  
Acq: 27 Jan 2020 12:56

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0127SBL01

Tgt Ion: 56 Resp: 4132  
Ion Ratio Lower Upper  
56 100  
69 192.1 27.6 41.4#  
84 184.9 69.7 104.5#

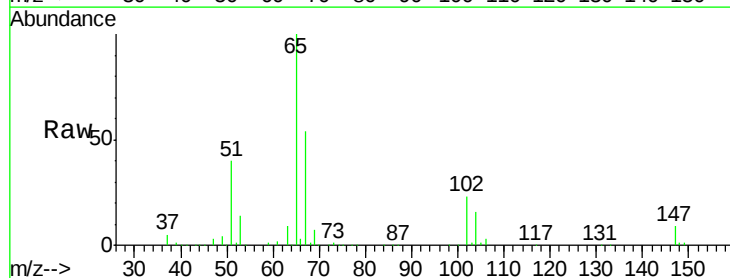


Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

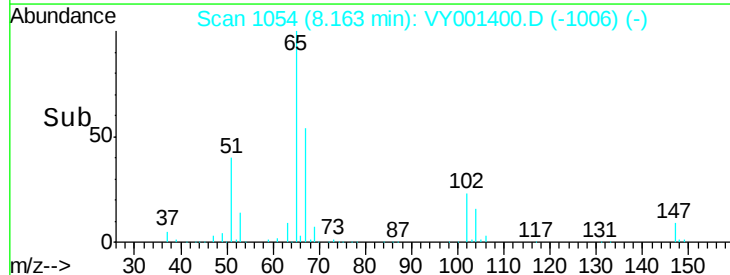
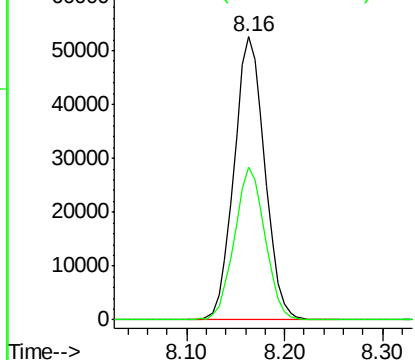


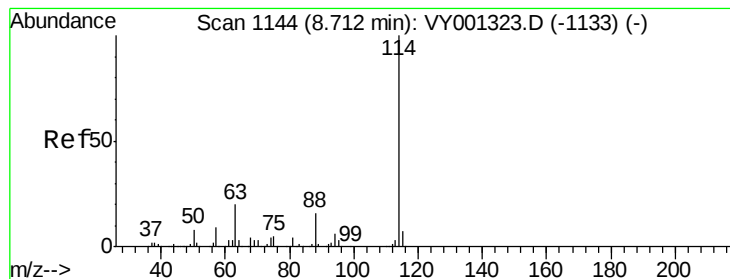
#33  
1,2-Dichloroethane-d4  
Concen: 55.59 ug/l  
RT: 8.16 min Scan# 1054  
Delta R.T. -0.01 min  
Lab File: VY001400.D  
Acq: 27 Jan 2020 12:56

Tgt Ion: 65 Resp: 113973  
Ion Ratio Lower Upper  
65 100  
67 53.9 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# 1143

Delta R.T. -0.01 min

Lab File: VY001400.D

Acq: 27 Jan 2020 12:56

Instrument :

MSVOA\_Y

ClientSampleId :

VY0127SBL01

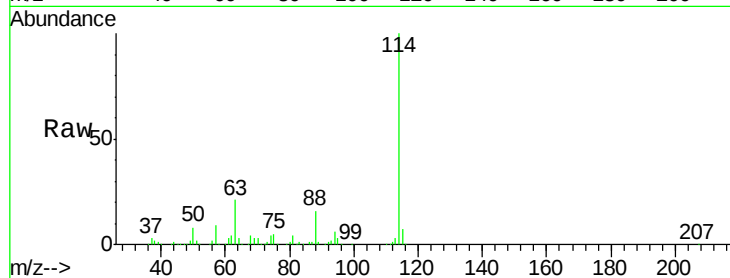
Tgt Ion:114 Resp: 347101

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.8

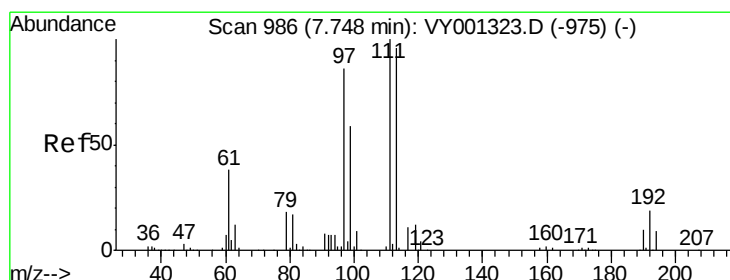
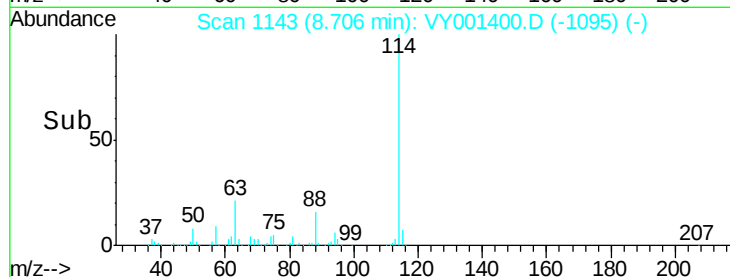
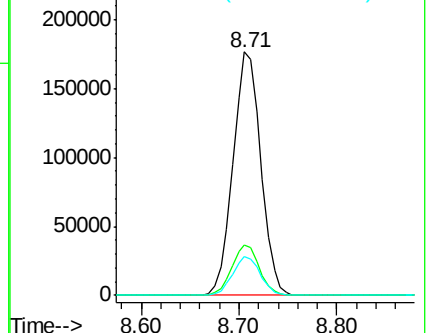
88 16.1 0.0 31.0



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: 50.75 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY001400.D

Acq: 27 Jan 2020 12:56

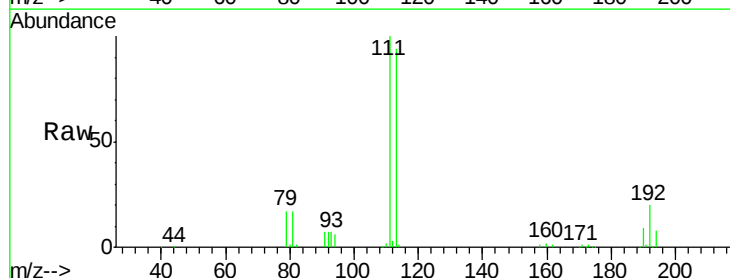
Tgt Ion:113 Resp: 103380

Ion Ratio Lower Upper

113 100

111 103.9 82.8 124.2

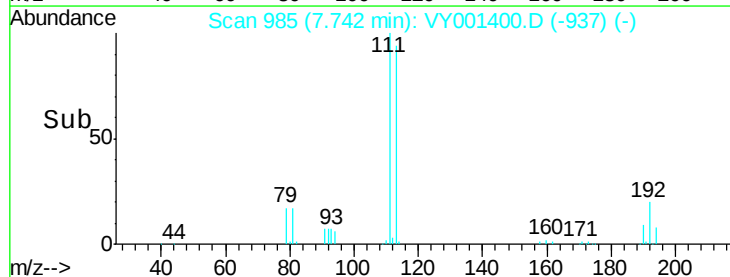
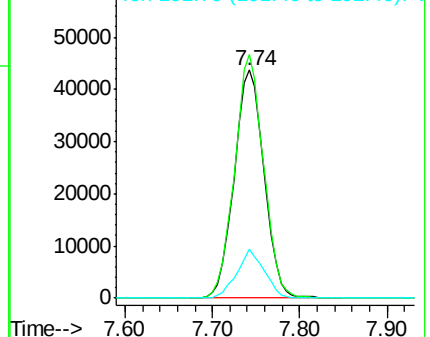
192 19.6 15.5 23.3

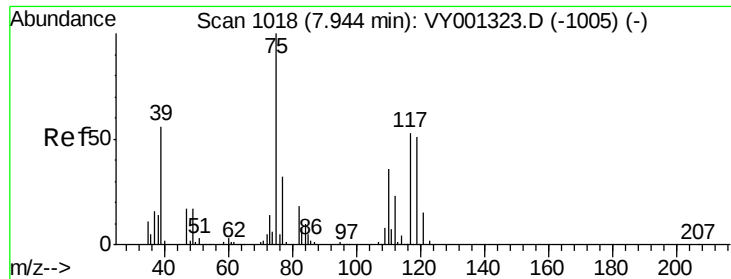


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

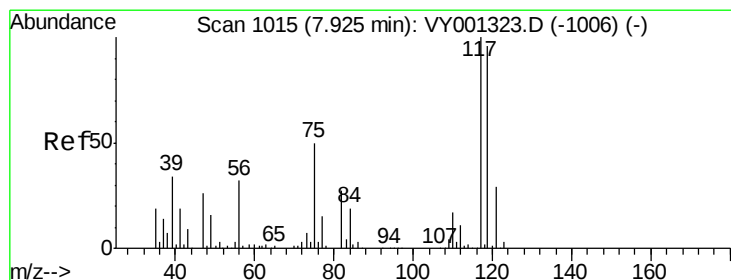
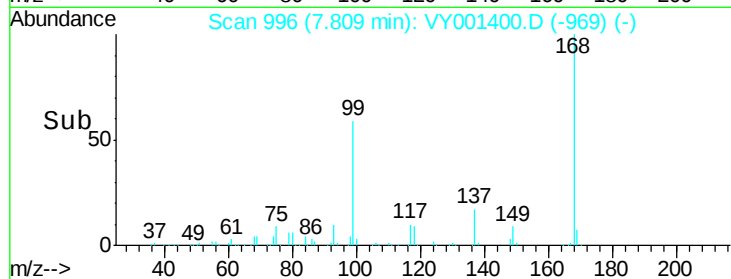
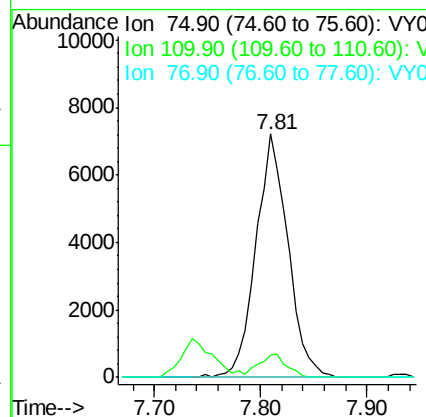
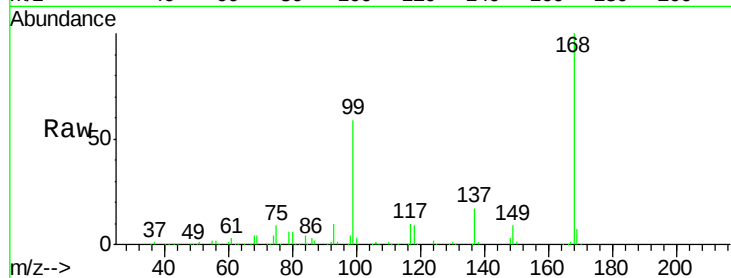




#36  
 1,1-Dichloropropene  
 Concen: 4.65 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.13 min  
 Lab File: VY001400.D  
 Acq: 27 Jan 2020 12:56

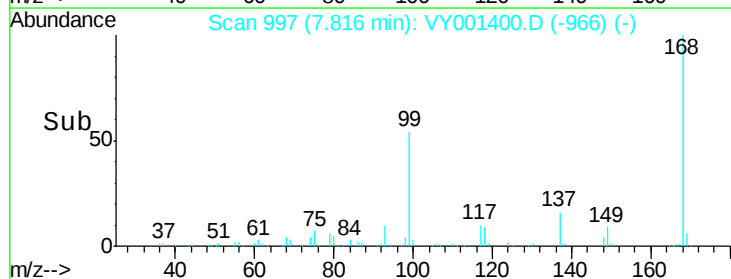
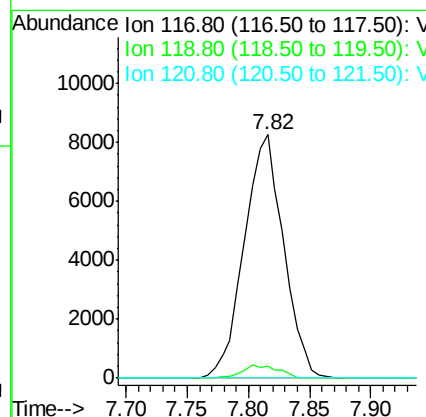
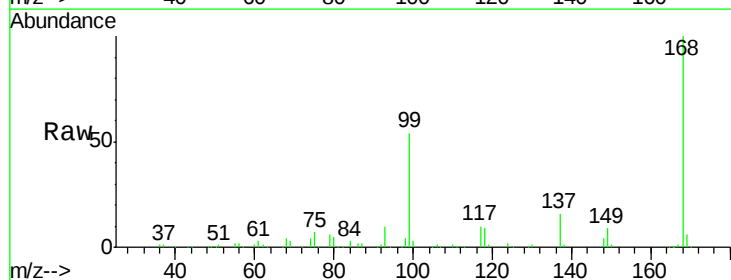
Instrument :  
 MSVOA\_Y  
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 VY0127SBL01

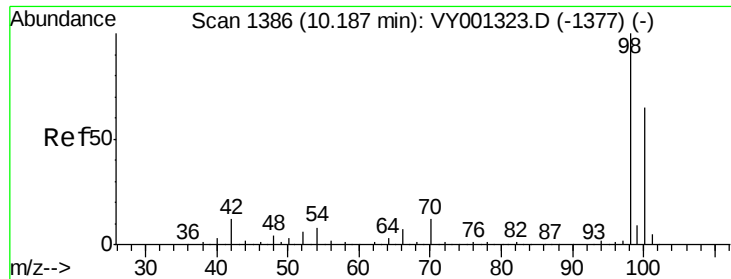
Tgt Ion: 75 Resp: 15256  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 17.6 52.8#  
 77 0.0 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 6.33 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.11 min  
 Lab File: VY001400.D  
 Acq: 27 Jan 2020 12:56

Tgt Ion: 117 Resp: 18494  
 Ion Ratio Lower Upper  
 117 100  
 119 5.1 76.3 114.5#  
 121 0.0 23.5 35.3#





#50

Toluene-d8

Concen: 52.07 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001400.D

Acq: 27 Jan 2020 12:56

Instrument :

MSVOA\_Y

ClientSampleId :

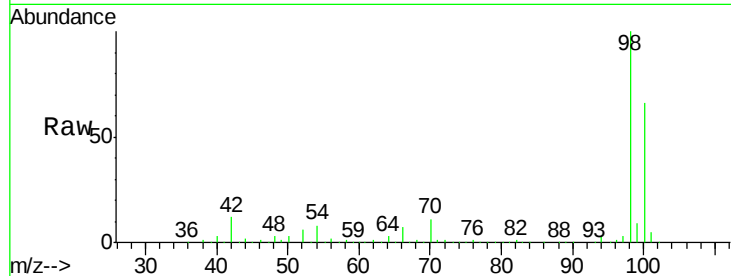
VY0127SBL01

Tgt Ion: 98 Resp: 412155

Ion Ratio Lower Upper

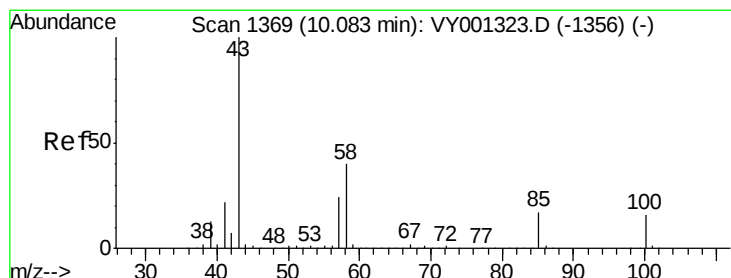
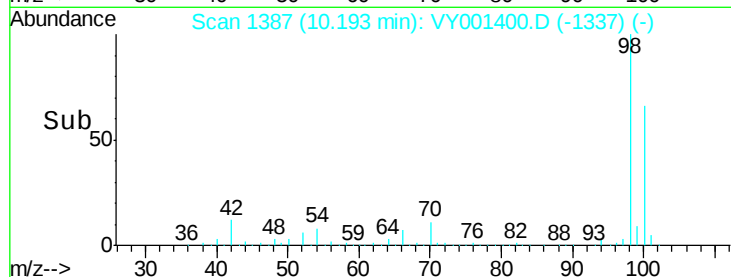
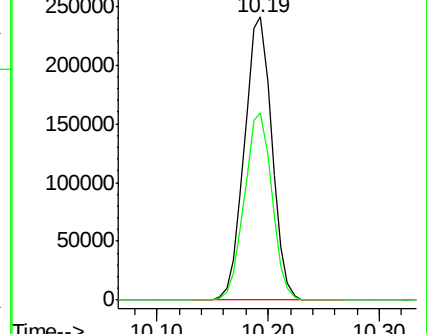
98 100

100 66.4 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



#51

4-Methyl-2-Pentanone

Concen: 1.29 ug/l

RT: 10.08 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VY001400.D

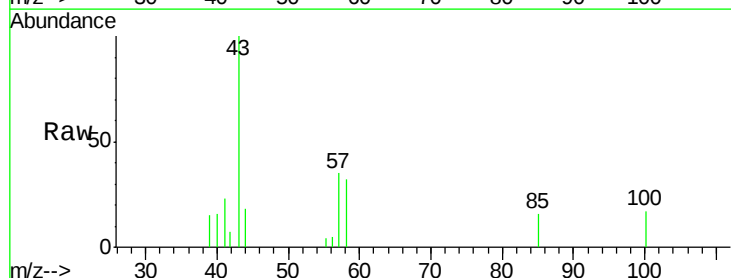
Acq: 27 Jan 2020 12:56

Tgt Ion: 43 Resp: 2580

Ion Ratio Lower Upper

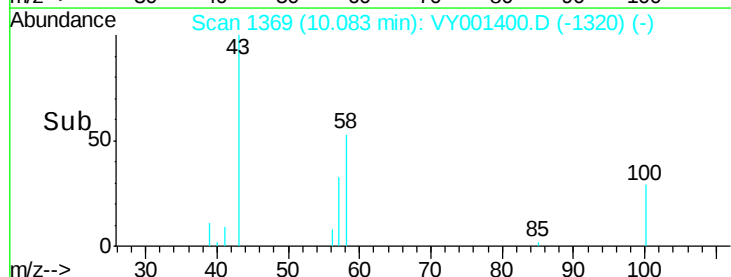
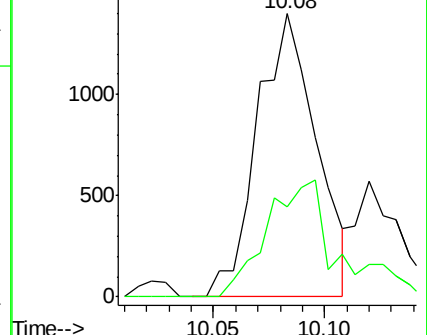
43 100

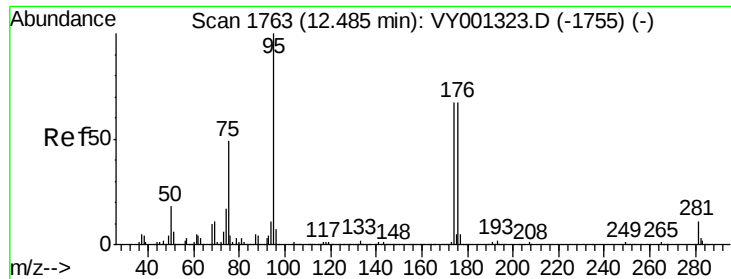
58 49.2 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

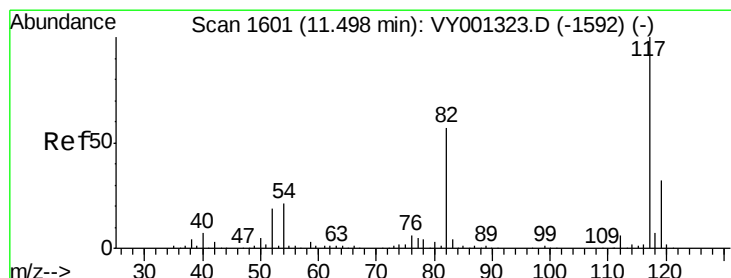
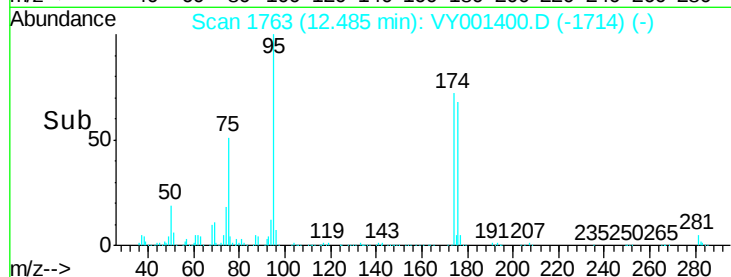
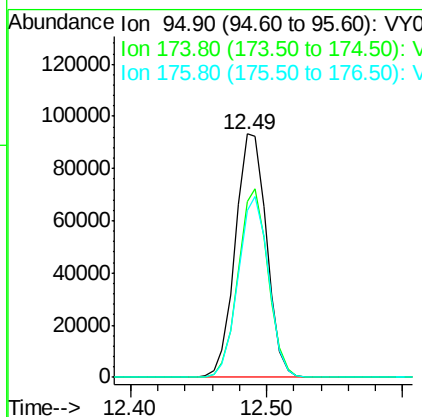
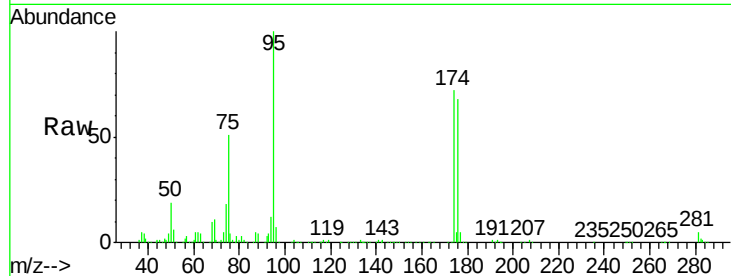




#62  
4-Bromofluorobenzene  
Concen: 47.39 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. 0.00 min  
Lab File: VY001400.D  
Acq: 27 Jan 2020 12:56

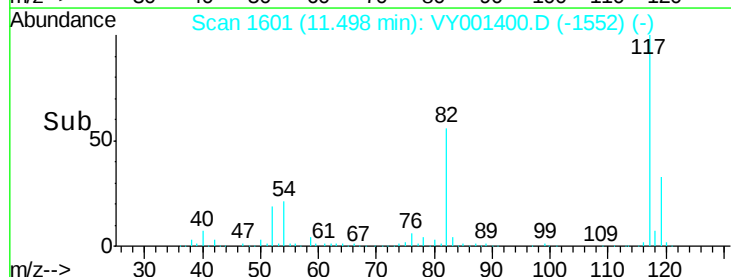
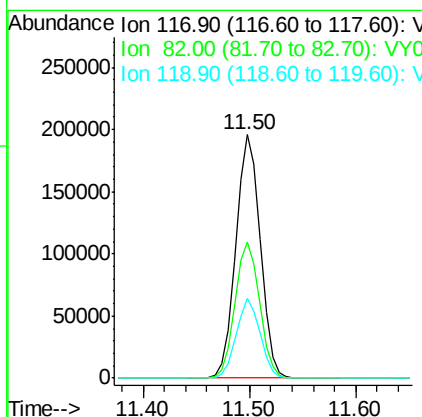
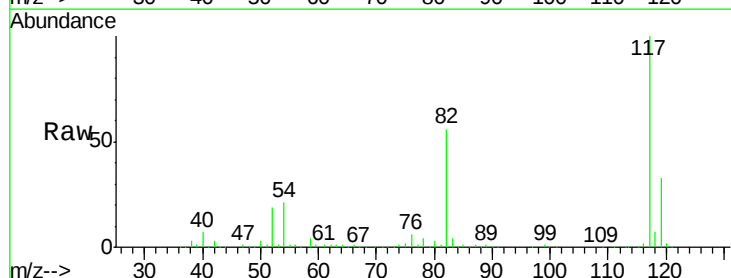
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0127SBL01

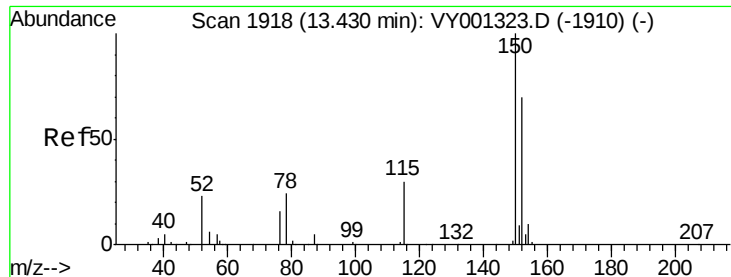
Tgt Ion: 95 Resp: 149362  
Ion Ratio Lower Upper  
95 100  
174 74.2 0.0 142.0  
176 72.3 0.0 138.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. 0.00 min  
Lab File: VY001400.D  
Acq: 27 Jan 2020 12:56

Tgt Ion: 117 Resp: 315325  
Ion Ratio Lower Upper  
117 100  
82 56.1 45.5 68.3  
119 32.8 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. 0.00 min

Lab File: VY001400.D

Acq: 27 Jan 2020 12:56

Instrument :

MSVOA\_Y

ClientSampleId :

VY0127SBL01

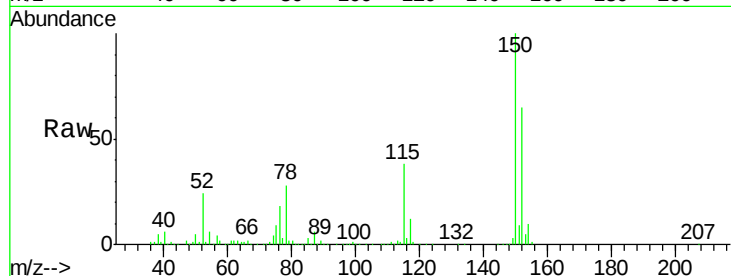
Tgt Ion:152 Resp: 144154

Ion Ratio Lower Upper

152 100

115 59.7 30.9 92.8

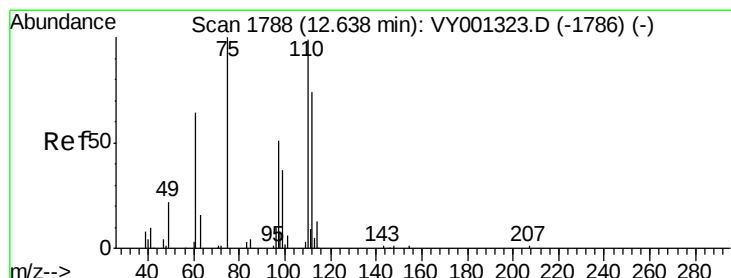
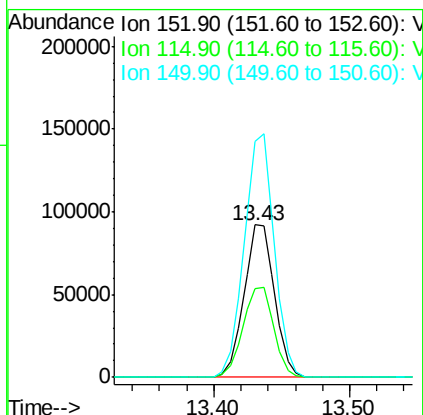
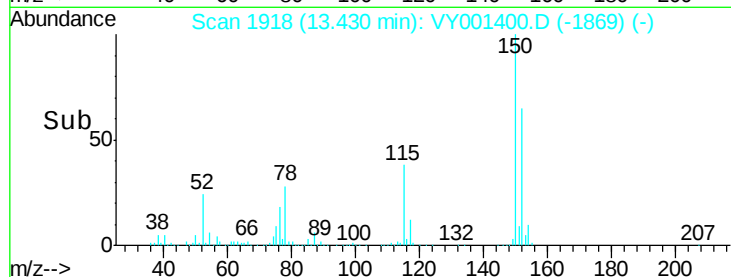
150 157.5 0.0 349.2



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: 43.48 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001400.D

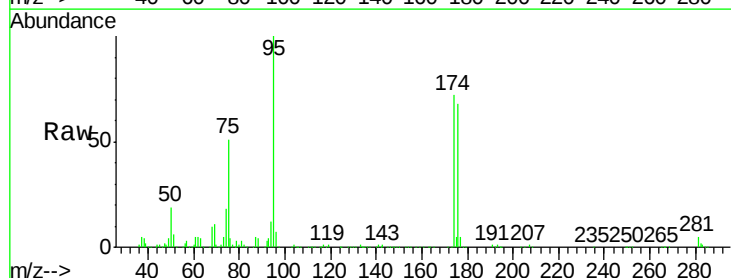
Acq: 27 Jan 2020 12:56

Tgt Ion: 75 Resp: 75534

Ion Ratio Lower Upper

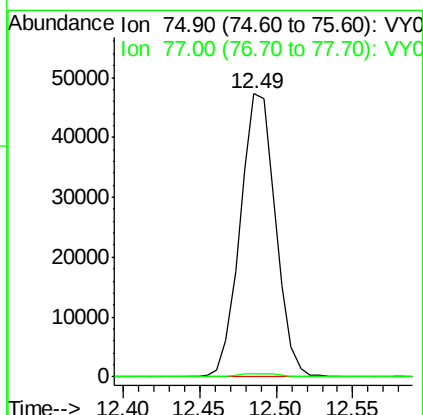
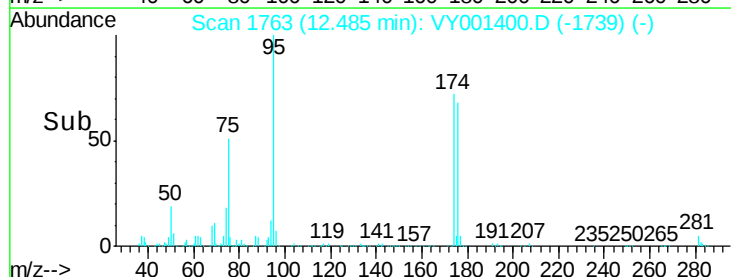
75 100

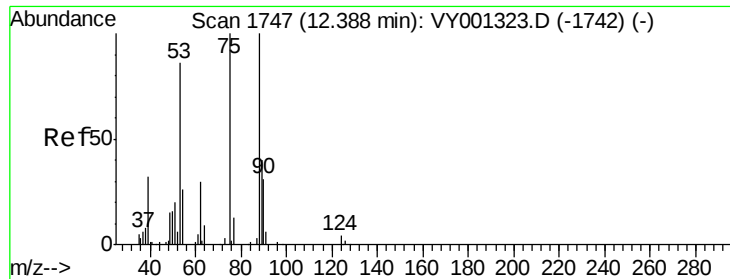
77 1.3 0.0 0.0#



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: 82.29 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001400.D

Acq: 27 Jan 2020 12:56

Instrument :

MSVOA\_Y

ClientSampleId :

VY0127SBL01

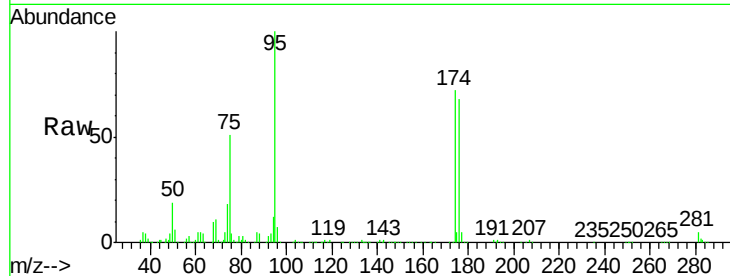
Tgt Ion: 75 Resp: 75534

Ion Ratio Lower Upper

75 100

53 0.0 69.9 104.9#

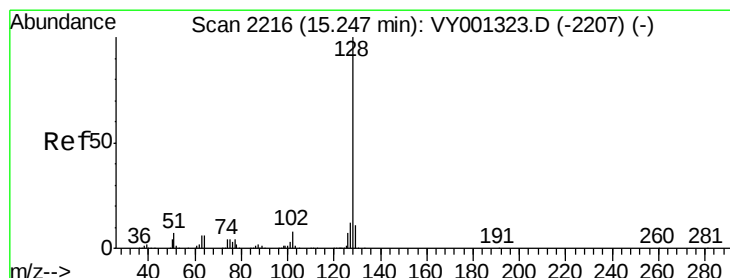
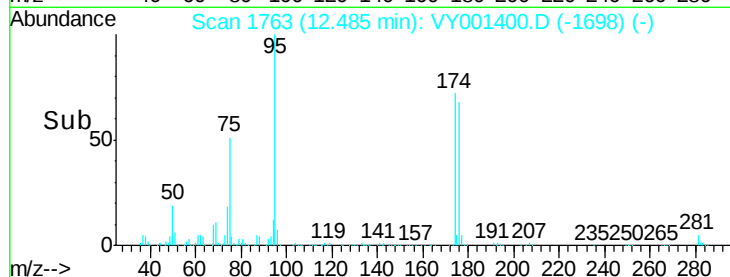
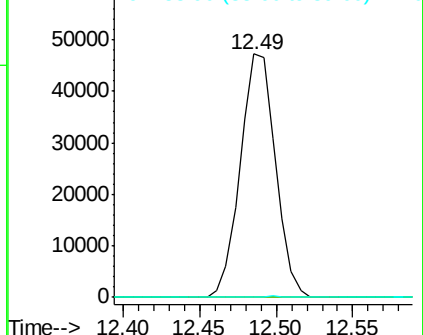
89 0.3 36.6 54.8#



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



#95

Naphthalene

Concen: 1.15 ug/l

RT: 15.25 min Scan# 2216

Delta R.T. 0.00 min

Lab File: VY001400.D

Acq: 27 Jan 2020 12:56

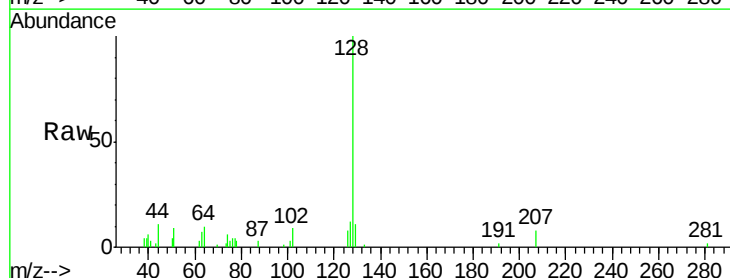
Tgt Ion: 128 Resp: 7891

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

129 10.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

