

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050520\  
 Data File : VY002579.D  
 Acq On : 05 May 2020 12:06  
 Operator : SY/MD  
 Sample : L2447-22  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PT-VOA-SOIL

Quant Time: May 06 03:18:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 407301   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 612289   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 546014   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 276515   | 50.00 | ug/l  | -0.01    |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 169368   | 49.46 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.92%  |       |
| 35) Dibromofluoromethane  | 7.73   | 113 | 176853   | 50.50 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.00% |       |
| 50) Toluene-d8            | 10.18  | 98  | 691958   | 50.60 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.20% |       |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 231747   | 49.94 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.88%  |       |

## Target Compounds

|                               |       |     |         |         |        | Qvalue |
|-------------------------------|-------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91  | 85  | 199     | 1.842   | ug/l # | 43     |
| 11) Tert butyl alcohol        | 4.95  | 59  | 1792    | 5.086   | ug/l # | 74     |
| 14) Allyl chloride            | 4.72  | 41  | 6703    | 1.312   | ug/l # | 26     |
| 16) Acetone                   | 3.96  | 43  | 536790  | 759.492 | ug/l   | 98     |
| 20) Methylene Chloride        | 4.73  | 84  | 180576  | 45.688  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.23  | 96  | 517819  | 135.121 | ug/l   | 99     |
| 25) 2-Butanone                | 7.00  | 43  | 251579  | 217.451 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.00  | 96  | 528826  | 124.713 | ug/l   | 90     |
| 28) Bromochloromethane        | 7.52  | 49  | 57568   | 22.977  | ug/l # | 6      |
| 30) Chloroform                | 7.52  | 83  | 827730  | 130.179 | ug/l   | 99     |
| 31) Cyclohexane               | 7.80  | 56  | 6652    | 1.081   | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 7.80  | 75  | 26314   | 5.127   | ug/l # | 49     |
| 37) Ethyl Acetate             | 7.00  | 43  | 251579  | 95.379  | ug/l # | 1      |
| 38) Carbon Tetrachloride      | 7.80  | 117 | 36453   | 6.505   | ug/l # | 15     |
| 40) Benzene                   | 8.17  | 78  | 896164  | 60.450  | ug/l   | 99     |
| 42) 1,2-Dichloroethane        | 8.24  | 62  | 390494  | 93.906  | ug/l   | 98     |
| 44) Trichloroethene           | 8.94  | 130 | 619341  | 133.681 | ug/l   | 96     |
| 45) 1,2-Dichloropropane       | 9.22  | 63  | 158693  | 44.354  | ug/l   | 99     |
| 46) Dibromomethane            | 9.31  | 93  | 238517  | 115.865 | ug/l   | 100    |
| 47) Bromodichloromethane      | 9.50  | 83  | 635227  | 126.906 | ug/l   | 100    |
| 48) Methyl methacrylate       | 9.22  | 41  | 76995   | 34.405  | ug/l # | 28     |
| 49) 1,4-Dioxane               | 9.31  | 88  | 1306    | 47.915  | ug/l # | 27     |
| 54) cis-1,3-Dichloropropene   | 9.93  | 75  | 721008  | 118.920 | ug/l   | 99     |
| 55) 1,1,2-Trichloroethane     | 10.64 | 97  | 183529  | 61.136  | ug/l   | 99     |
| 59) 2-Hexanone                | 10.83 | 43  | 569328  | 324.544 | ug/l   | 100    |
| 60) Dibromochloromethane      | 10.99 | 129 | 467317  | 122.394 | ug/l   | 99     |
| 61) 1,2-Dibromoethane         | 11.09 | 107 | 314700  | 105.871 | ug/l   | 100    |
| 64) Tetrachloroethene         | 10.72 | 164 | 145339  | 29.959  | ug/l   | 97     |
| 65) Chlorobenzene             | 11.52 | 112 | 1368767 | 131.869 | ug/l   | 99     |
| 66) 1,1,1,2-Tetrachloroethane | 11.59 | 131 | 295735  | 76.755  | ug/l   | 99     |
| 67) Ethyl Benzene             | 11.60 | 91  | 2865452 | 157.160 | ug/l   | 100    |
| 68) m/p-Xylenes               | 11.70 | 106 | 1295722 | 183.669 | ug/l   | 100    |
| 69) o-Xylene                  | 12.03 | 106 | 1260856 | 190.883 | ug/l   | 99     |
| 70) Styrene                   | 12.05 | 104 | 1296361 | 114.803 | ug/l   | 94     |

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 Sample : L2447-22  
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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PT-VOA-SOIL

Quant Time: May 06 03:18:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

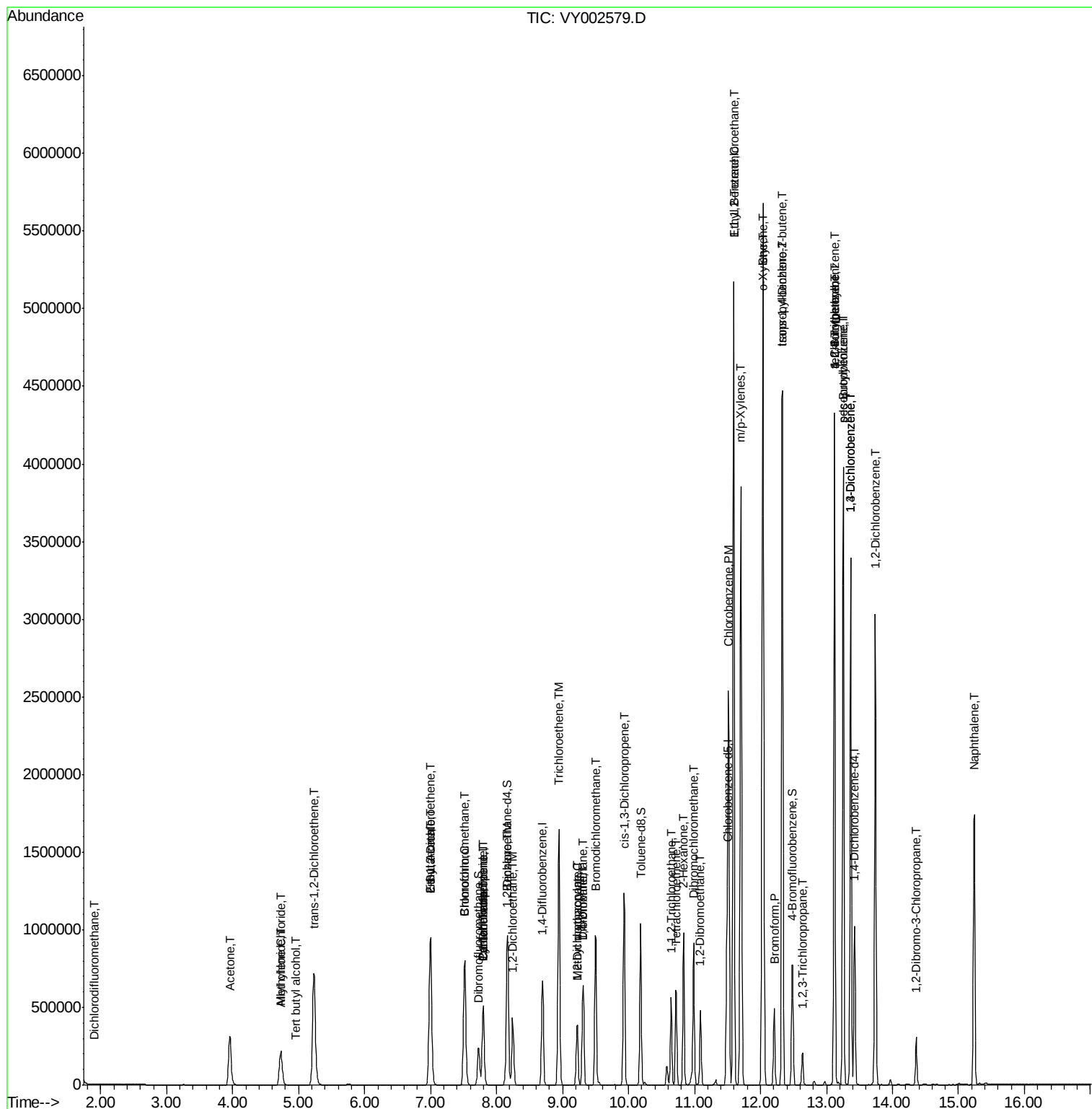
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 71) Bromoform                  | 12.21 | 173  | 227035   | 94.937  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 2983208  | 166.466 | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 84288    | 34.301  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.33 | 75   | 30552    | 24.931  | ug/l # | 49       |
| 82) 4-Chlorotoluene            | 13.12 | 91   | 232314   | 19.198  | ug/l # | 38       |
| 83) tert-Butylbenzene          | 13.12 | 119  | 295224   | 22.666  | ug/l # | 67       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 2331209  | 157.464 | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 2656724  | 146.991 | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.25 | 119  | 40104    | 2.368   | ug/l # | 1        |
| 87) 1,3-Dichlorobenzene        | 13.37 | 146  | 1475272  | 174.092 | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 1475272  | 175.815 | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 1315258  | 173.942 | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 68910    | 129.707 | ug/l   | 96       |
| 95) Naphthalene                | 15.24 | 128  | 1514721  | 151.251 | ug/l   | 99       |
| -----                          |       |      |          |         |        |          |

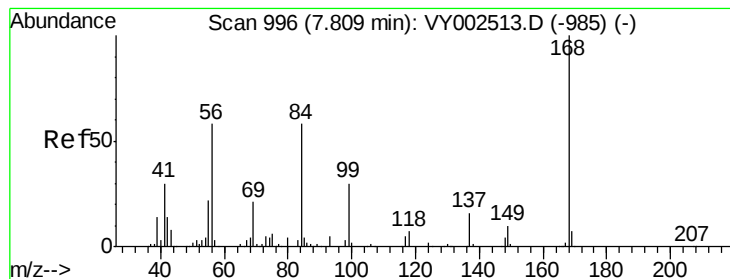
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

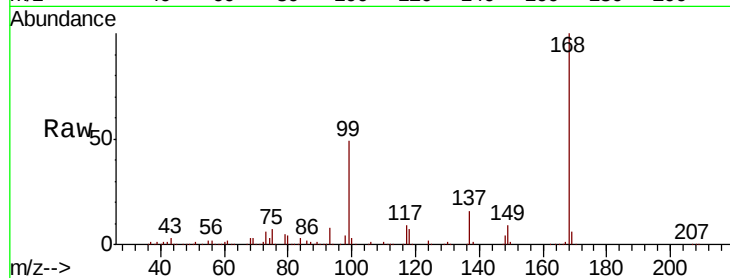
PT-VOA-SOIL

Tot Ion:168 Resp: 407301

Ion Ratio Lower Upper

168 100

99 49.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.80

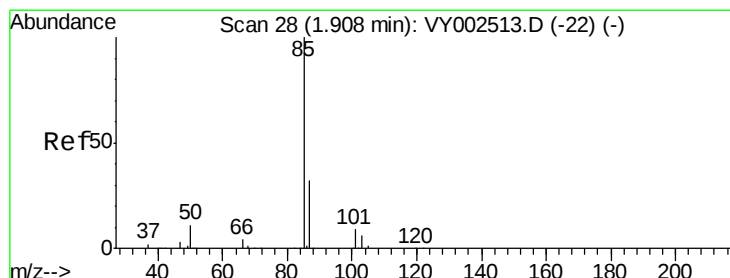
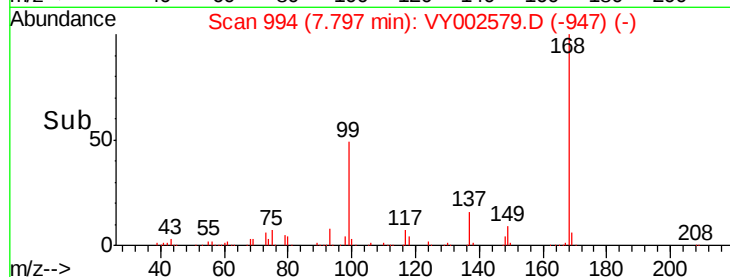
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.842 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.00 min

Lab File: VY002579.D

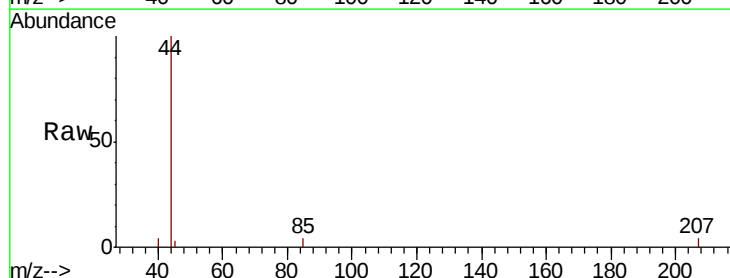
Acq: 05 May 2020 12:06

Tgt Ion: 85 Resp: 199

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

1.91

200

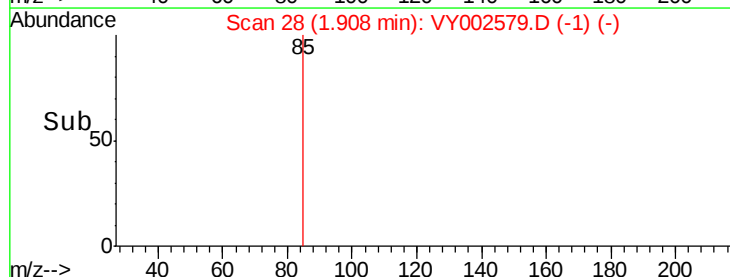
150

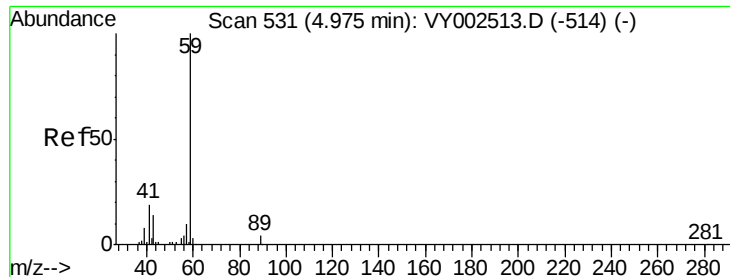
100

50

0

Time-->



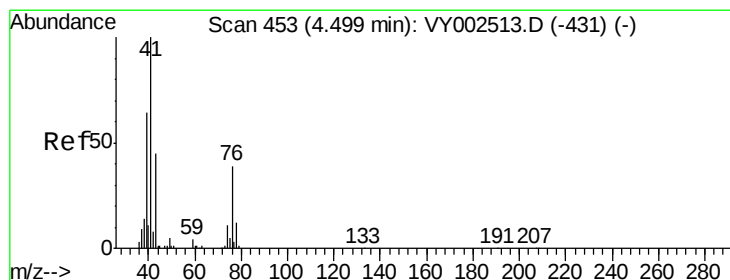
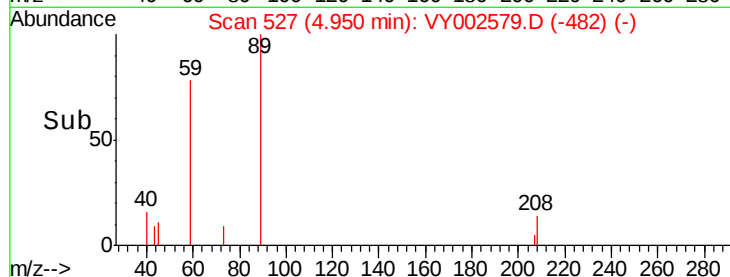
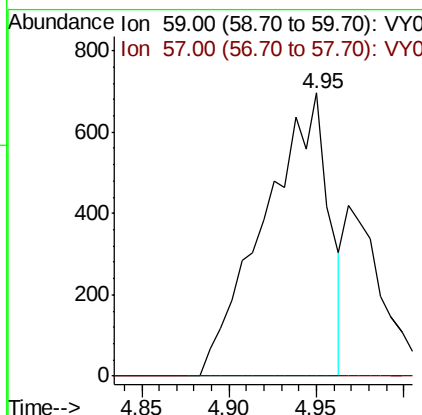
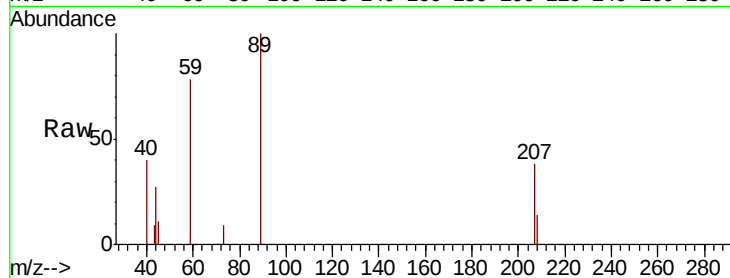


#11

Tert butyl alcohol  
 Concen: 5.086 ug/l  
 RT: 4.95 min Scan# 527  
 Delta R.T. -0.02 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PT-VOA-SOIL

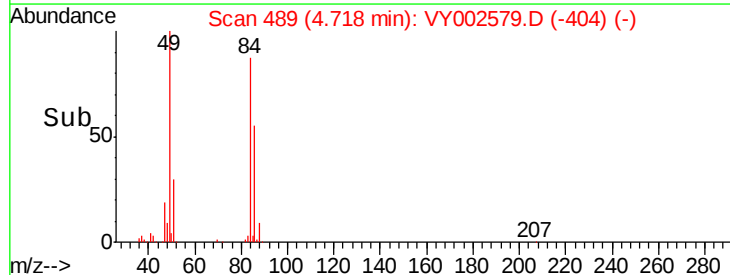
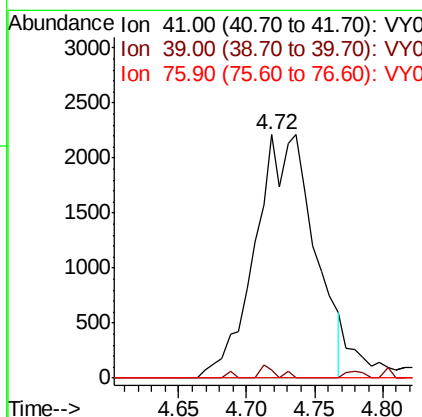
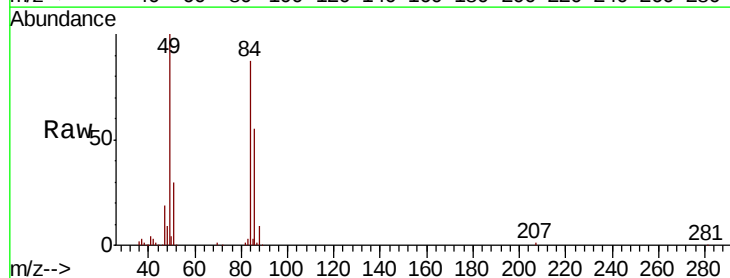
Tot Ion: 59 Resp: 1792  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.8 11.6#

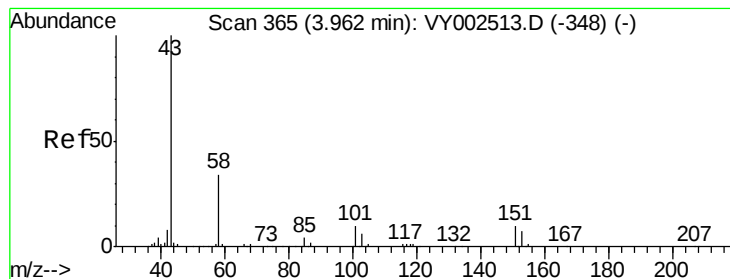


#14

Allyl chloride  
 Concen: 1.312 ug/l  
 RT: 4.72 min Scan# 489  
 Delta R.T. 0.22 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

Tgt Ion: 41 Resp: 6703  
 Ion Ratio Lower Upper  
 41 100  
 39 1.4 51.8 77.6#  
 76 0.0 31.7 47.5#





#16

Acetone

Concen: 759.492 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

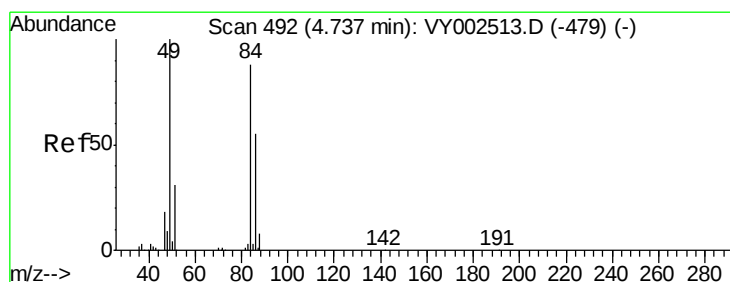
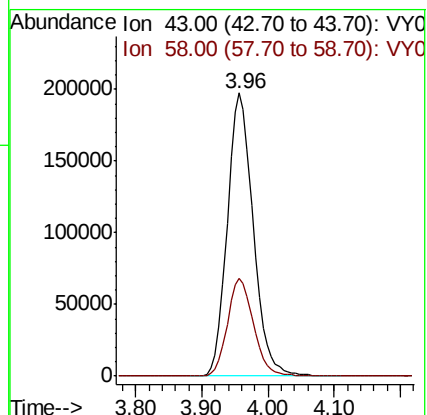
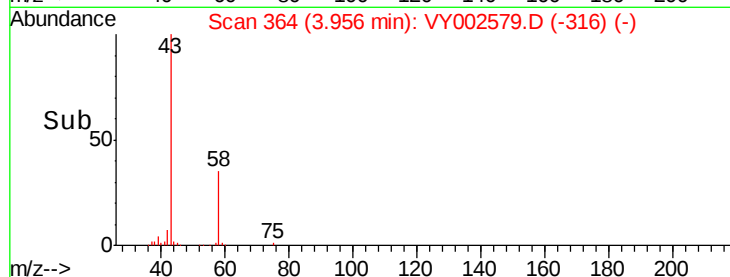
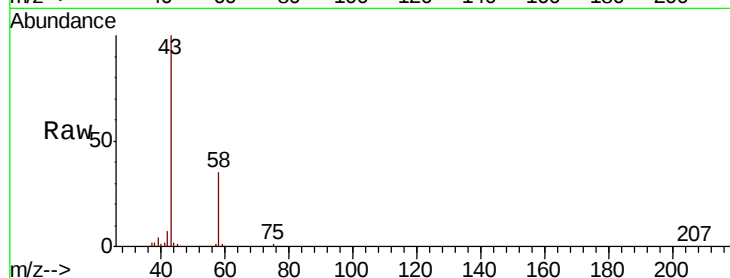
PT-VOA-SOIL

Tot Ion: 43 Resp: 536790

Ion Ratio Lower Upper

43 100

58 34.7 26.9 40.3



#20

Methylene Chloride

Concen: 45.688 ug/l

RT: 4.73 min Scan# 491

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Tgt Ion: 84 Resp: 180576

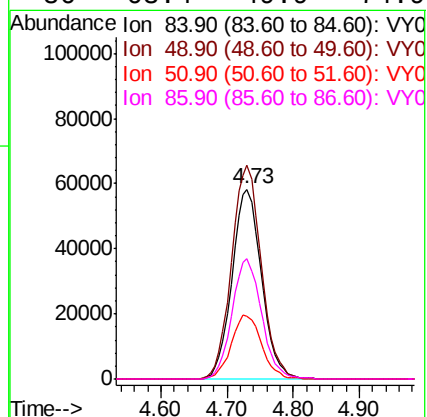
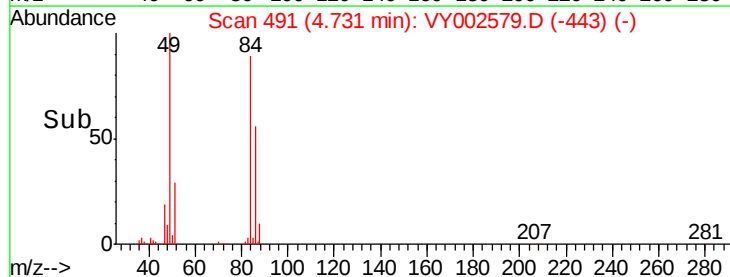
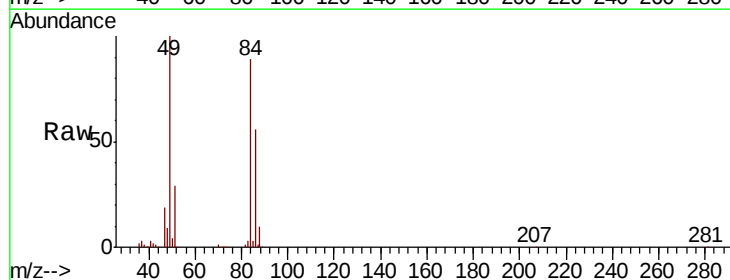
Ion Ratio Lower Upper

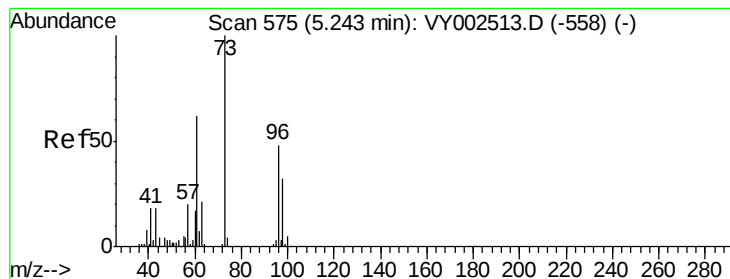
84 100

49 112.4 90.5 135.7

51 32.9 28.3 42.5

86 63.4 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 135.121 ug/l

RT: 5.23 min Scan# 573

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampled :

PT-VOA-SOIL

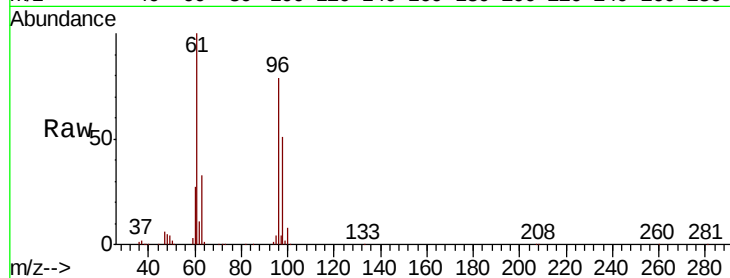
Tot Ion: 96 Resp: 517819

Ion Ratio Lower Upper

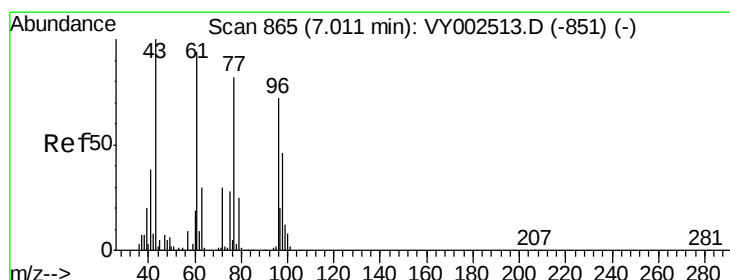
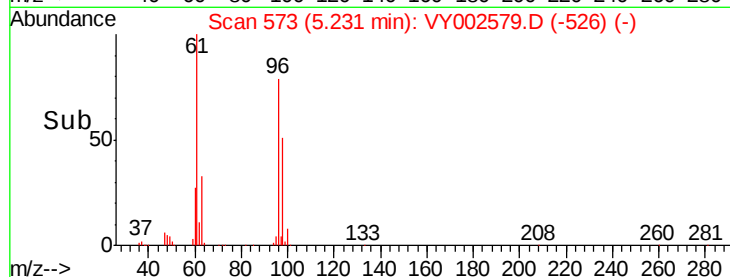
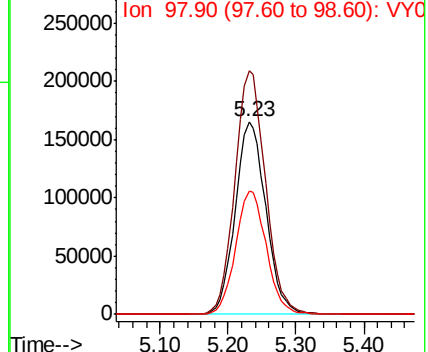
96 100

61 126.4 102.0 153.0

98 64.3 53.0 79.4



Abundance Ion 95.90 (95.60 to 96.60): VY0  
Ion 60.90 (60.60 to 61.60): VY0  
Ion 97.90 (97.60 to 98.60): VY0



#25

2-Butanone

Concen: 217.451 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.01 min

Lab File: VY002579.D

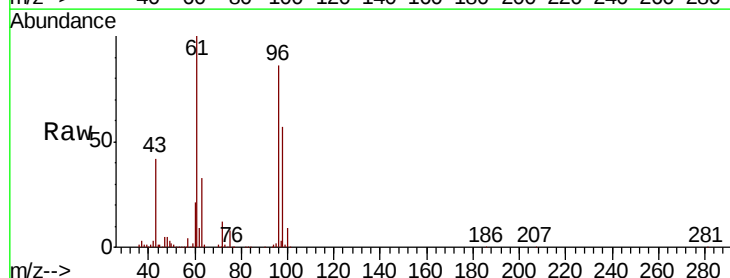
Acq: 05 May 2020 12:06

Tgt Ion: 43 Resp: 251579

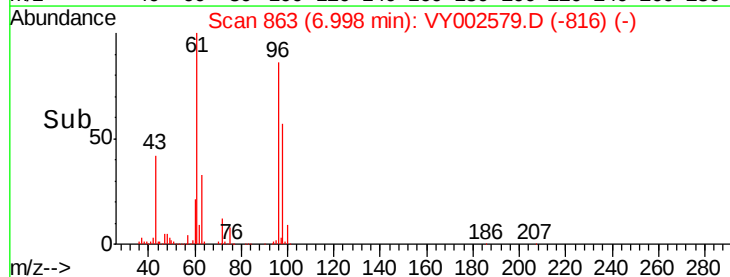
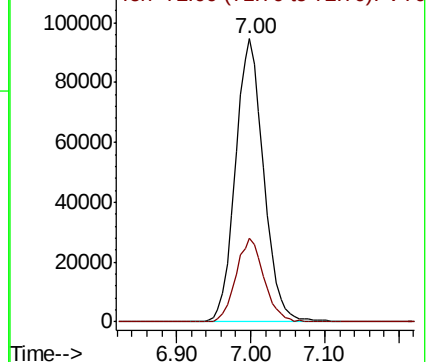
Ion Ratio Lower Upper

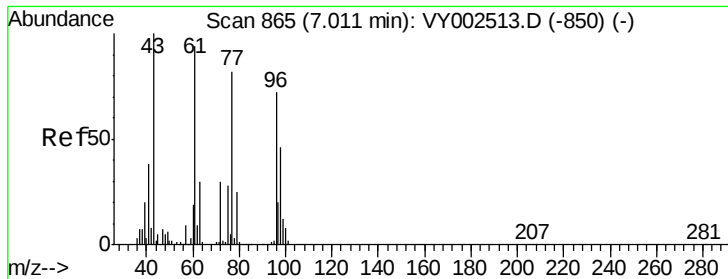
43 100

72 29.4 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0



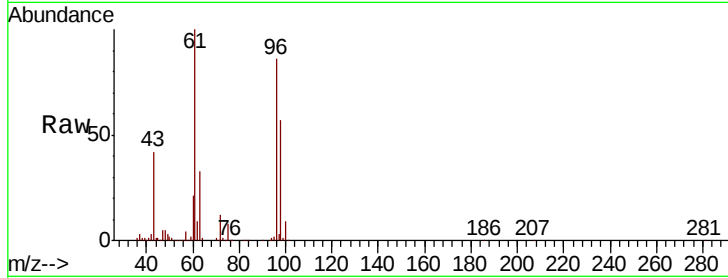


#27

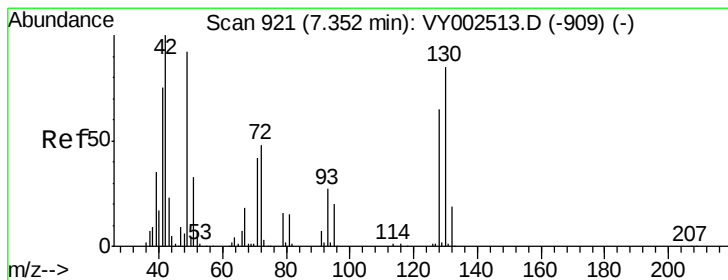
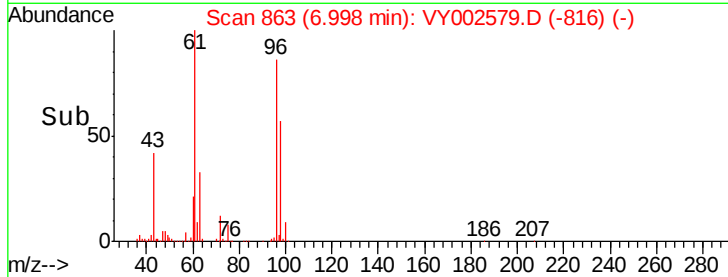
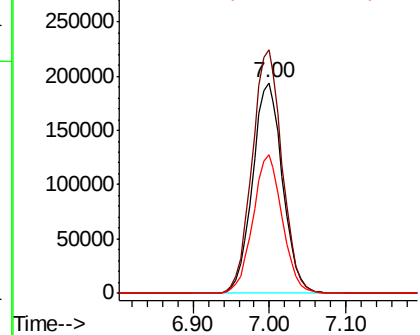
cis-1,2-Dichloroethene  
Concen: 124.713 ug/l  
RT: 7.00 min Scan# 863  
Delta R.T. -0.01 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

Instrument :  
MSVOA\_Y  
ClientSampled :  
PT-VOA-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 115.5 | 0.0   | 266.6 |
| 98      | 64.3  | 0.0   | 129.2 |



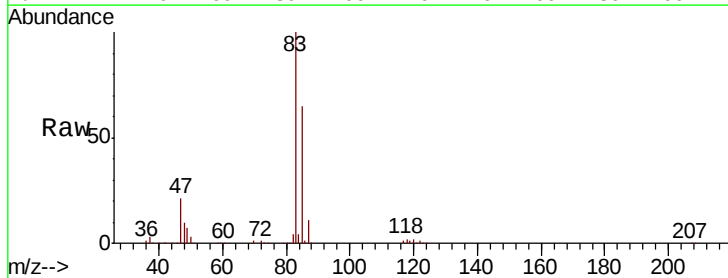
Abundance Ion 95.90 (95.60 to 96.60): VY0  
Ion 60.90 (60.60 to 61.60): VY0  
Ion 97.90 (97.60 to 98.60): VY0



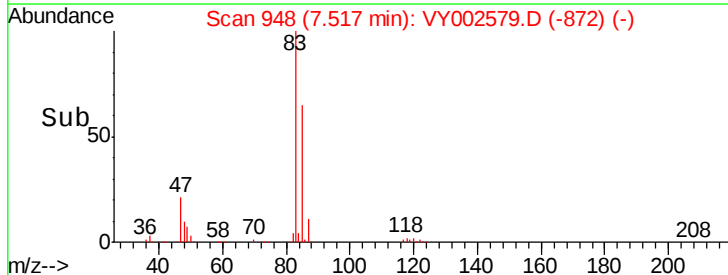
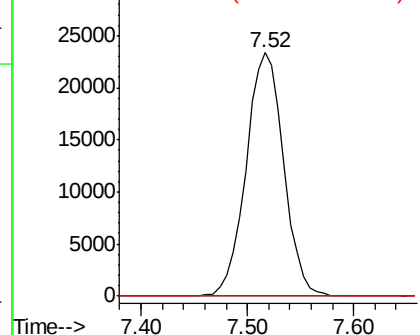
#28

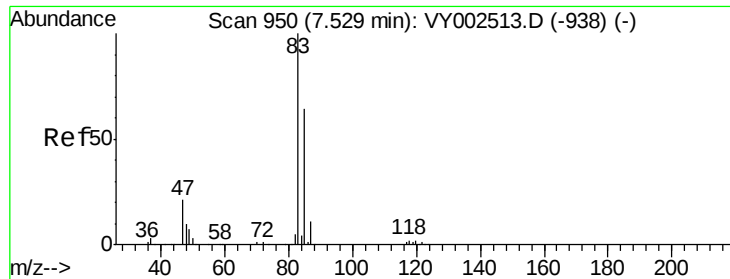
Bromochloromethane  
Concen: 22.977 ug/l  
RT: 7.52 min Scan# 948  
Delta R.T. 0.16 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 49      | 100   |       |        |
| 129     | 0.0   | 0.0   | 4.8    |
| 130     | 0.0   | 72.5  | 108.7# |



Abundance Ion 48.90 (48.60 to 49.60): VY0  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V

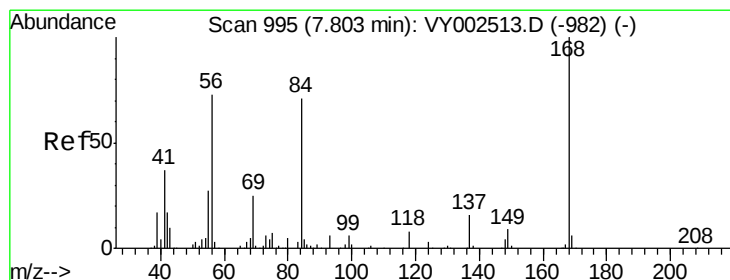
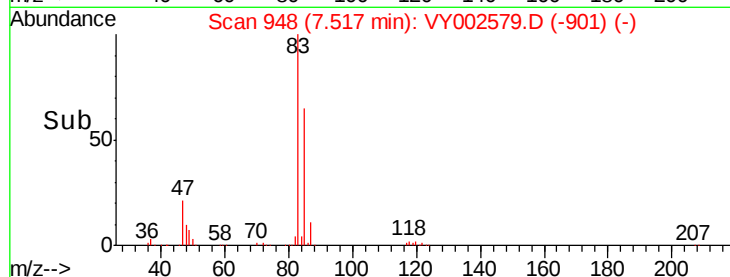
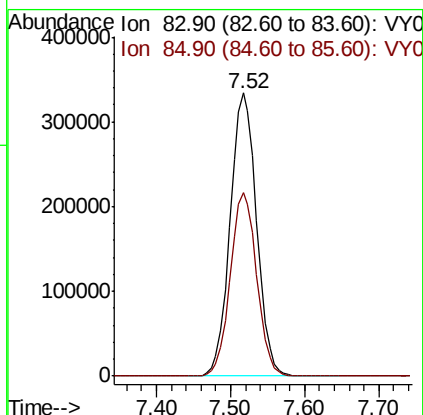
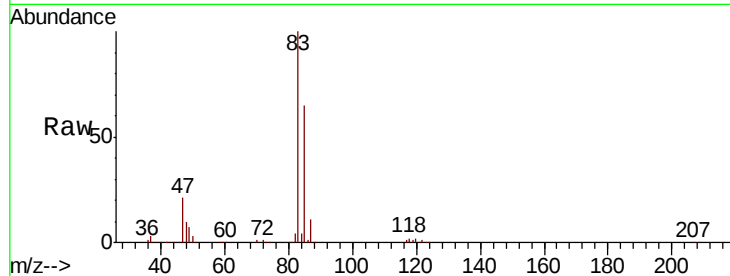




#30  
Chloroform  
Concen: 130.179 ug/l  
RT: 7.52 min Scan# 948  
Delta R.T. -0.01 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

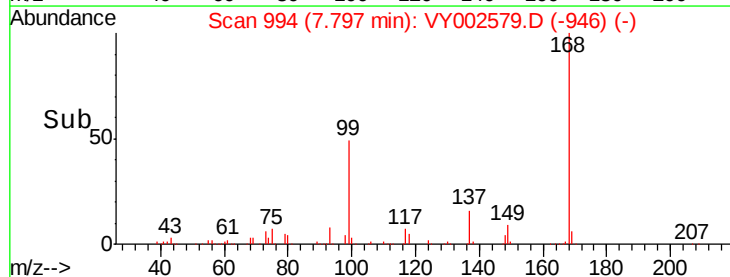
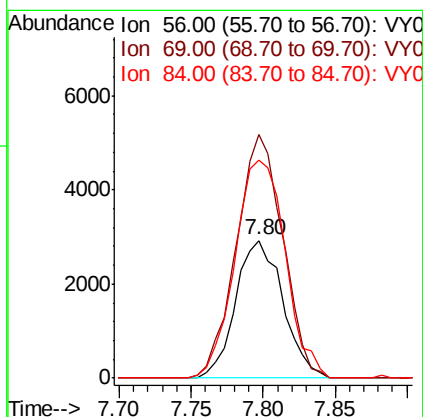
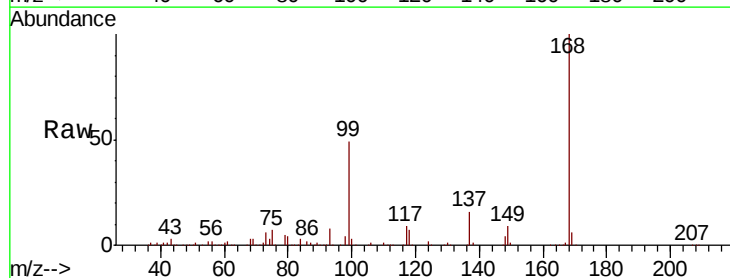
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PT-VOA-SOIL

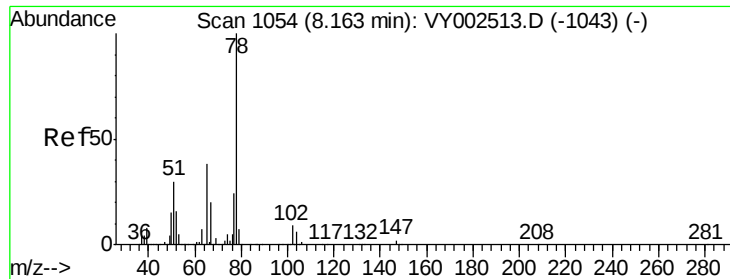
Tot Ion: 83 Resp: 827730  
Ion Ratio Lower Upper  
83 100  
85 64.8 51.5 77.3



#31  
Cyclohexane  
Concen: 1.081 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.01 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

Tgt Ion: 56 Resp: 6652  
Ion Ratio Lower Upper  
56 100  
69 176.8 27.6 41.4#  
84 158.3 77.7 116.5#

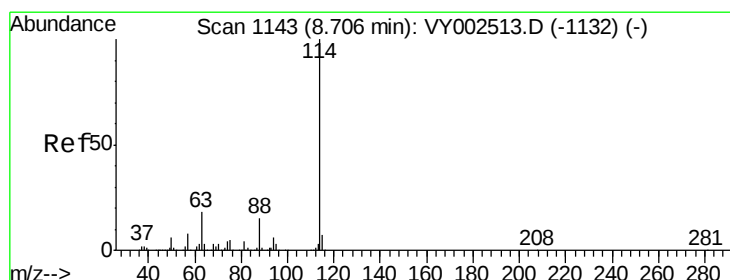
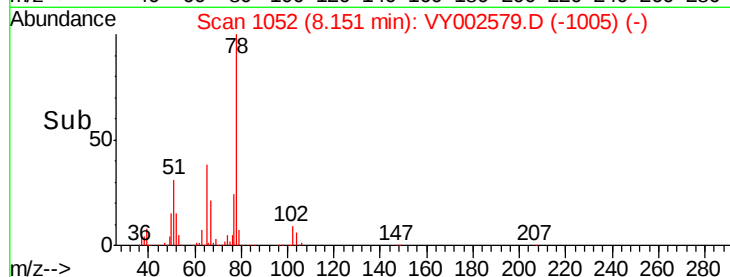
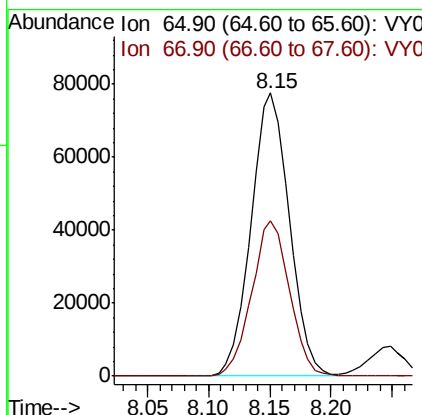
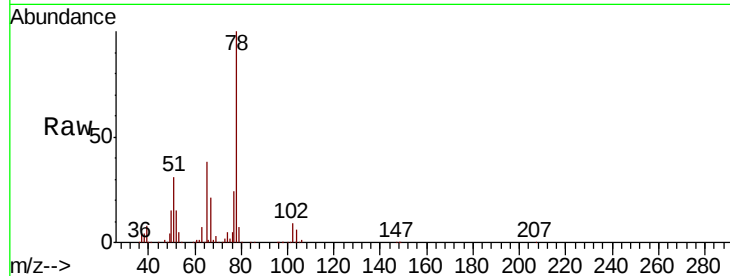




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.455 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. -0.01 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

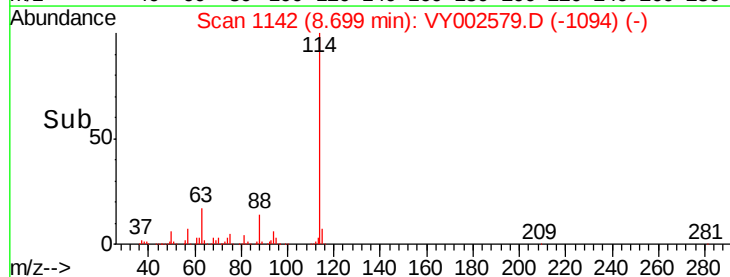
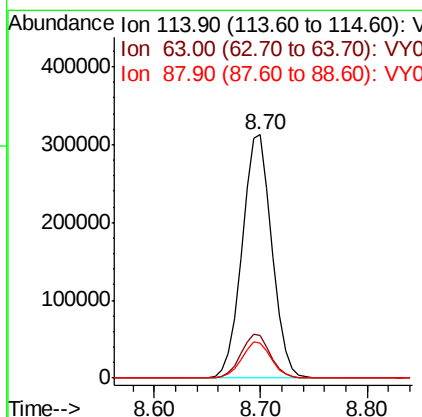
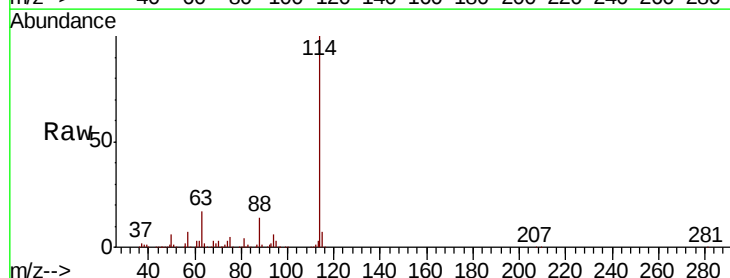
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PT-VOA-SOIL

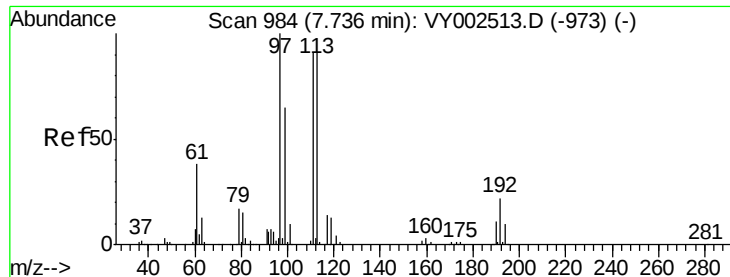
Tot Ion: 65 Resp: 169368  
 Ion Ratio Lower Upper  
 65 100  
 67 54.1 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.01 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

Tgt Ion: 114 Resp: 612289  
 Ion Ratio Lower Upper  
 114 100  
 63 17.3 0.0 36.4  
 88 14.3 0.0 29.6

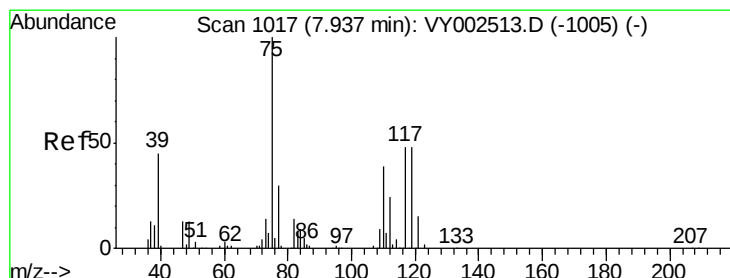
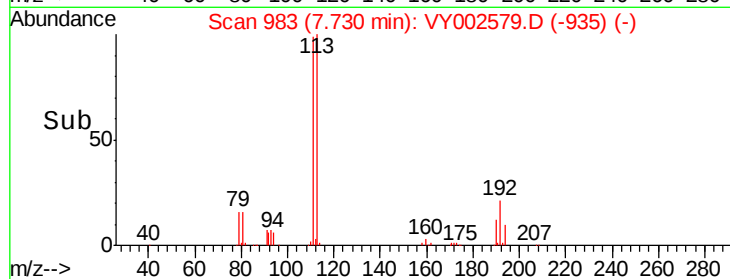
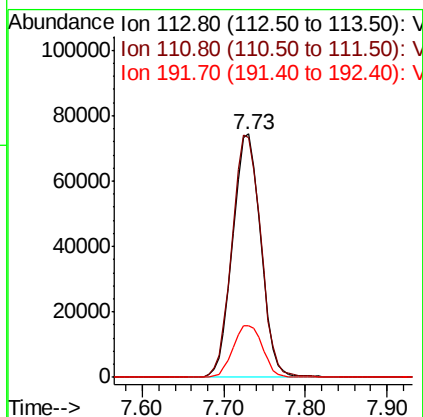
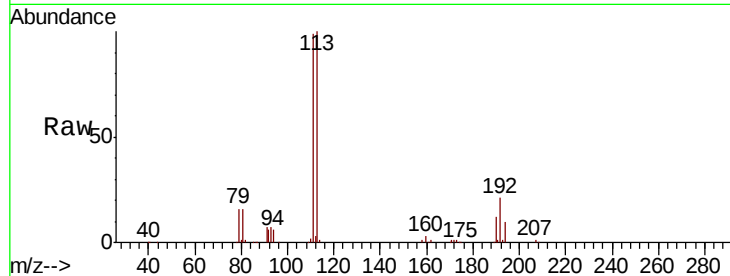




#35  
 Dibromofluoromethane  
 Concen: 50.505 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. -0.01 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

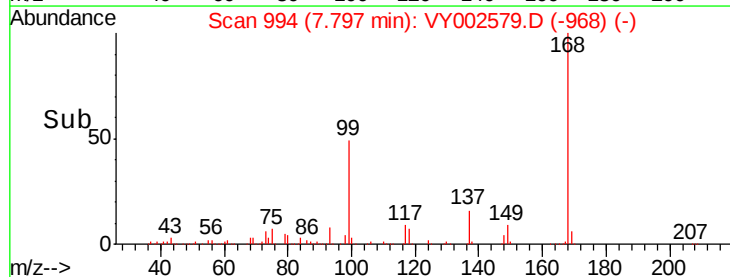
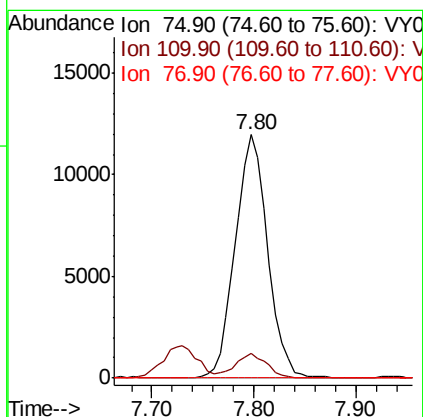
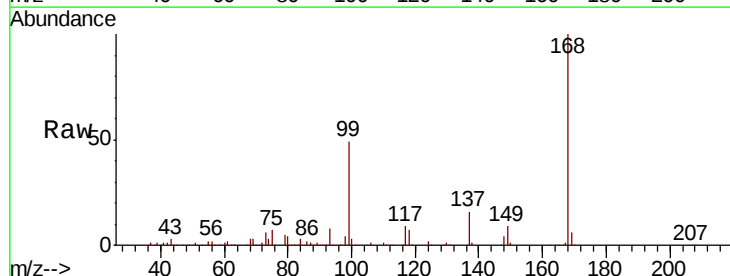
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PT-VOA-SOIL

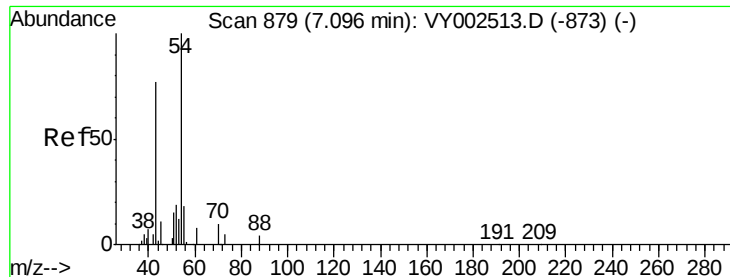
Tot Ion:113 Resp: 176853  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 81.8 122.6  
 192 22.5 18.2 27.4



#36  
 1,1-Dichloropropene  
 Concen: 5.127 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.14 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

Tgt Ion: 75 Resp: 26314  
 Ion Ratio Lower Upper  
 75 100  
 110 9.9 19.1 57.3#  
 77 0.0 24.6 37.0#

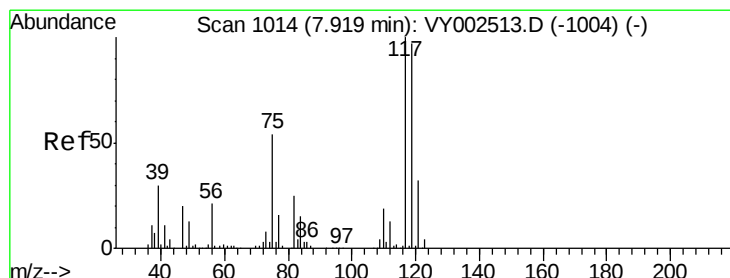
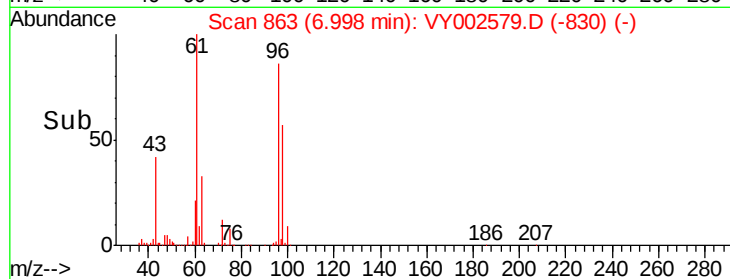
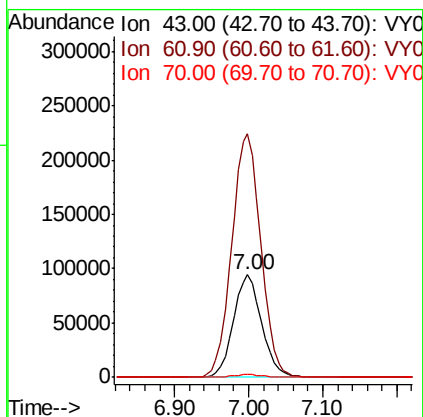
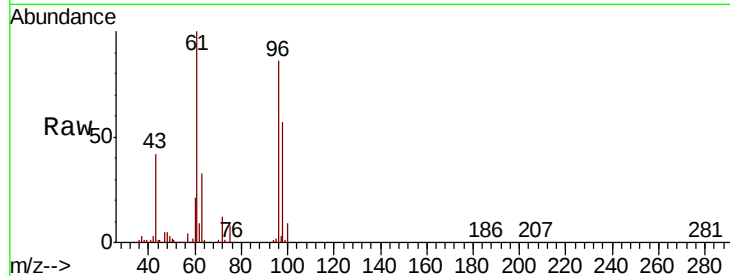




#37  
Ethyl Acetate  
Concen: 95.379 ug/l  
RT: 7.00 min Scan# 863  
Delta R.T. -0.10 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

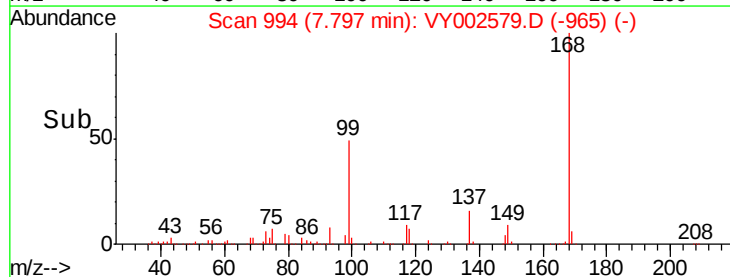
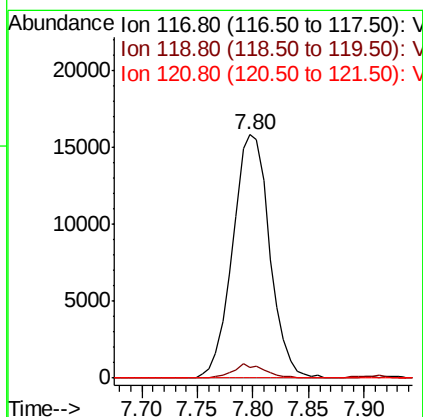
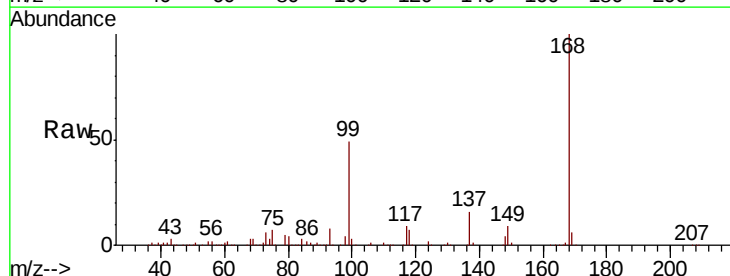
Instrument :  
MSVOA\_Y  
ClientSampled :  
PT-VOA-SOIL

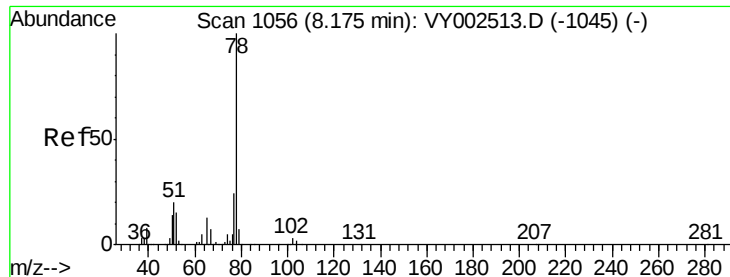
Tot Ion: 43 Resp: 251579  
Ion Ratio Lower Upper  
43 100  
61 242.8 11.6 17.4#  
70 2.6 9.0 13.6#



#38  
Carbon Tetrachloride  
Concen: 6.505 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.12 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

Tgt Ion: 117 Resp: 36453  
Ion Ratio Lower Upper  
117 100  
119 4.3 77.1 115.7#  
121 0.0 25.2 37.8#





#40

Benzene

Concen: 60.450 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

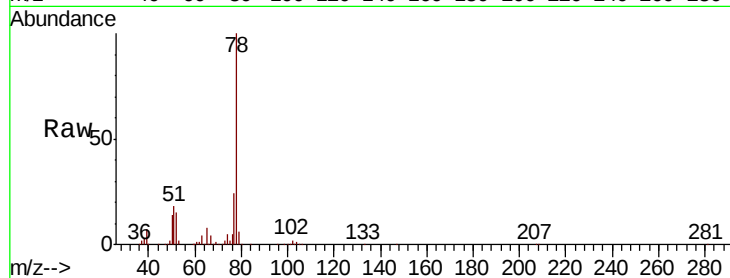
PT-VOA-SOIL

Tot Ion: 78 Resp: 896164

Ion Ratio Lower Upper

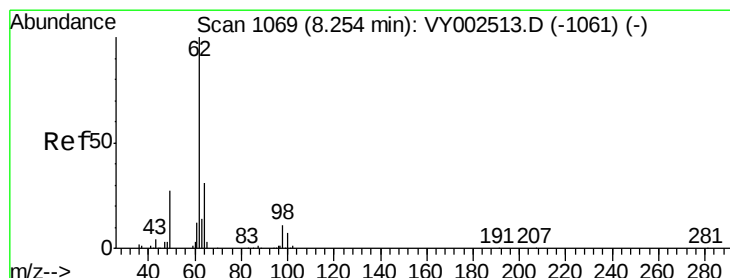
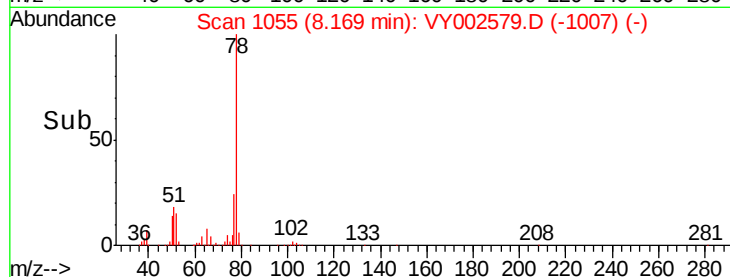
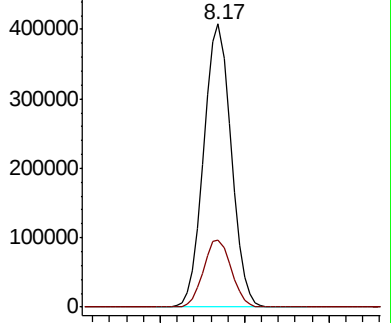
78 100

77 23.8 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VY0

Ion 77.00 (76.70 to 77.70): VY0



#42

1,2-Dichloroethane

Concen: 93.906 ug/l

RT: 8.24 min Scan# 1067

Delta R.T. -0.01 min

Lab File: VY002579.D

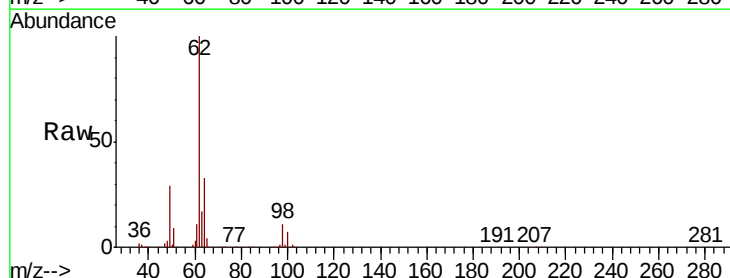
Acq: 05 May 2020 12:06

Tgt Ion: 62 Resp: 390494

Ion Ratio Lower Upper

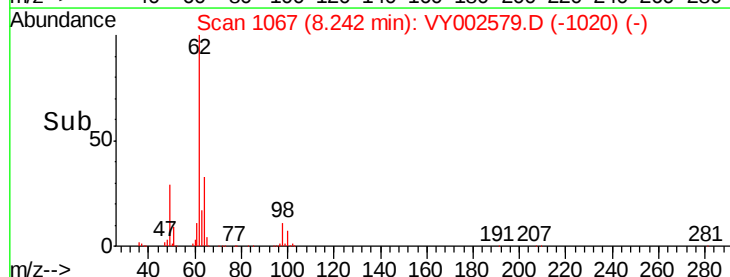
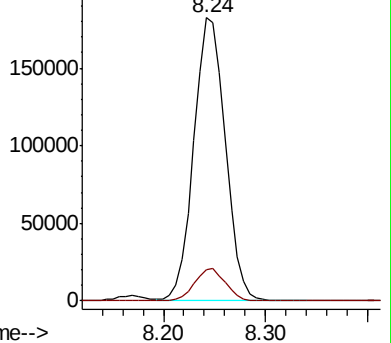
62 100

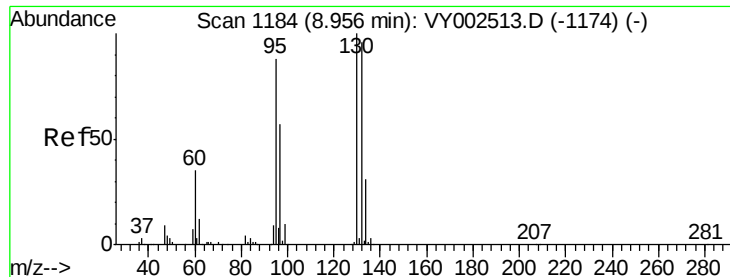
98 11.2 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 97.90 (97.60 to 98.60): VY0





#44

Trichloroethene

Concen: 133.681 ug/l

RT: 8.94 min Scan# 1182

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

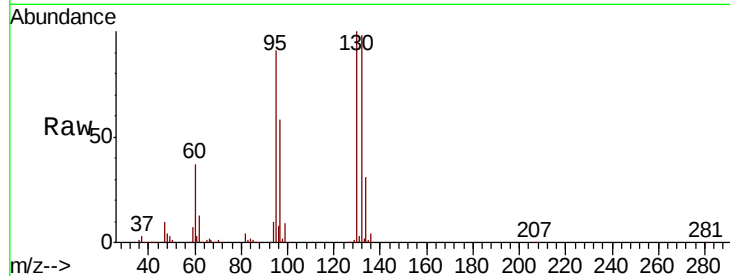
PT-VOA-SOIL

Tot Ion:130 Resp: 619341

Ion Ratio Lower Upper

130 100

95 91.2 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): VY002513.D (-1174) (-)

Ion 94.90 (94.60 to 95.60): VY002513.D (-1174) (-)

8.94

300000

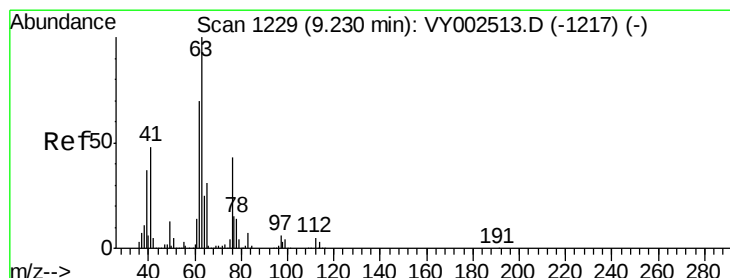
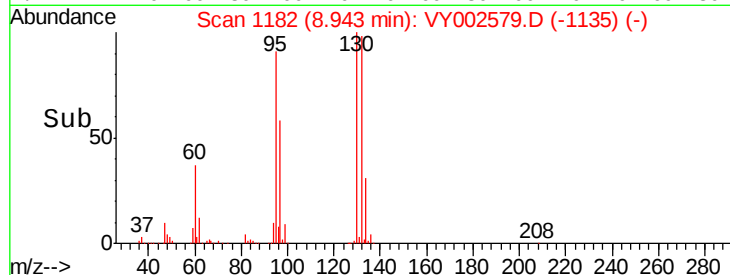
200000

100000

0

8.80 8.90 9.00 9.10

Time-->



#45

1,2-Dichloropropane

Concen: 44.354 ug/l

RT: 9.22 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VY002579.D

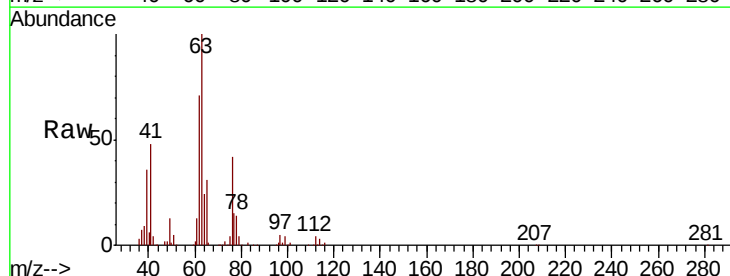
Acq: 05 May 2020 12:06

Tgt Ion: 63 Resp: 158693

Ion Ratio Lower Upper

63 100

65 31.2 24.5 36.7



Abundance Ion 62.90 (62.60 to 63.60): VY002513.D (-1217) (-)

Ion 64.90 (64.60 to 65.60): VY002513.D (-1217) (-)

9.22

80000

60000

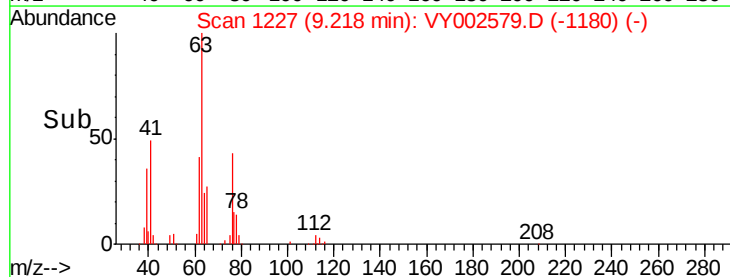
40000

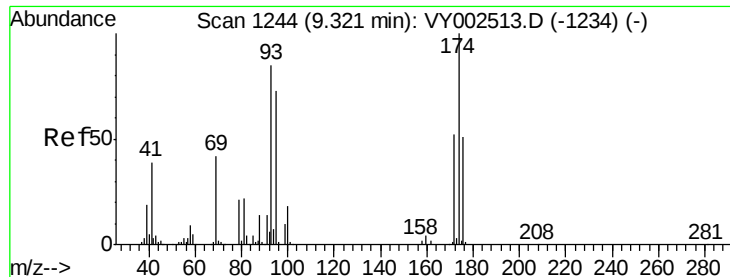
20000

0

9.10 9.15 9.20 9.25 9.30

Time-->





#46

Dibromomethane

Concen: 115.865 ug/l

RT: 9.31 min Scan# 1242

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

PT-VOA-SOIL

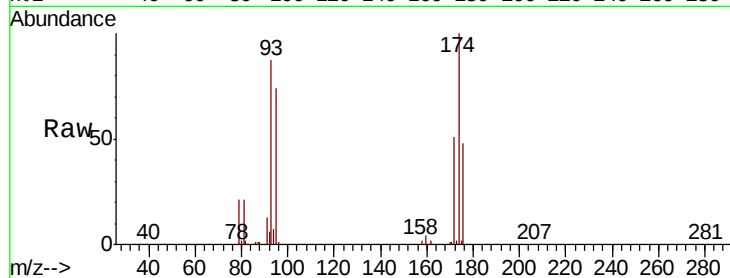
Tot Ion: 93 Resp: 238517

Ion Ratio Lower Upper

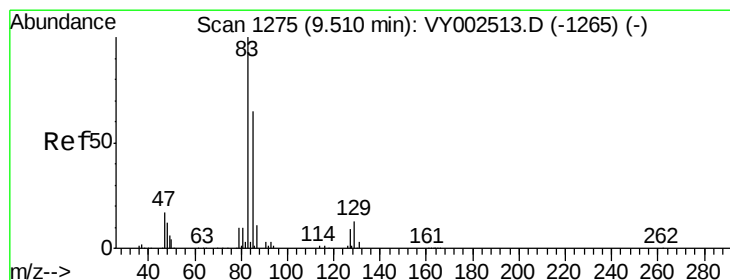
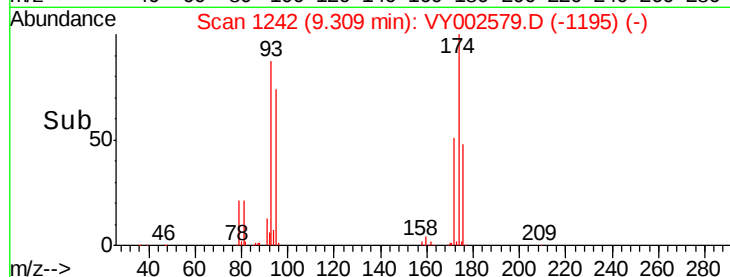
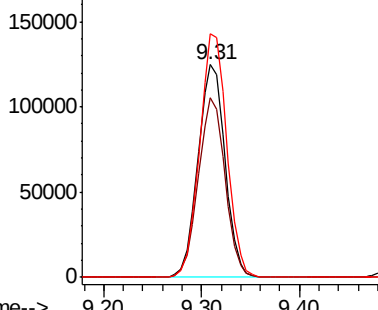
93 100

95 83.7 67.0 100.4

174 115.3 92.7 139.1



Abundance Ion 92.80 (92.50 to 93.50): VY0  
Ion 94.80 (94.50 to 95.50): VY0  
Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 126.906 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

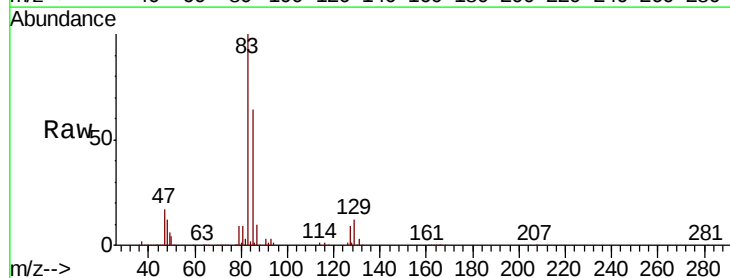
Tgt Ion: 83 Resp: 635227

Ion Ratio Lower Upper

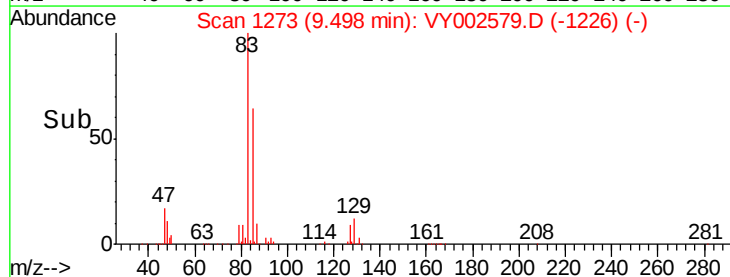
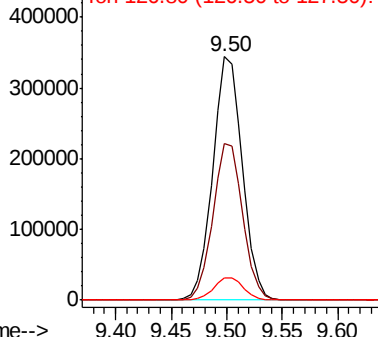
83 100

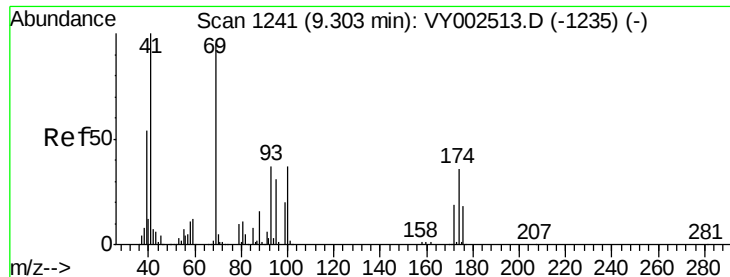
85 64.4 51.8 77.8

127 9.3 7.4 11.0



Abundance Ion 82.90 (82.60 to 83.60): VY0  
Ion 84.90 (84.60 to 85.60): VY0  
Ion 126.80 (126.50 to 127.50): V

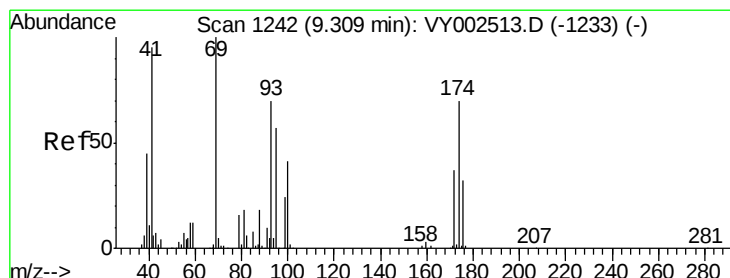
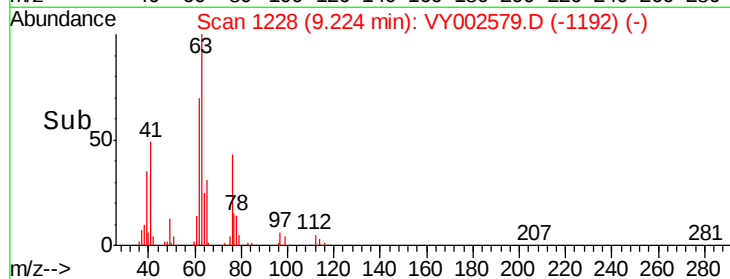
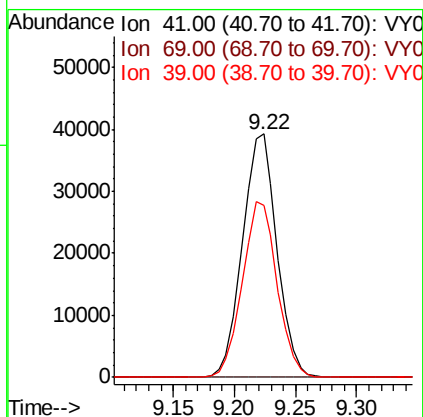
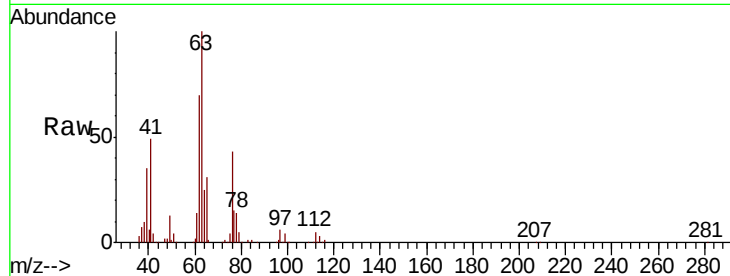




#48  
Methvl methacrylate  
Concen: 34.405 ug/l  
RT: 9.22 min Scan# 1228  
Delta R.T. -0.08 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

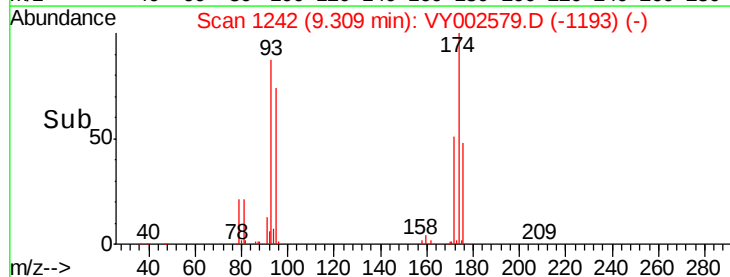
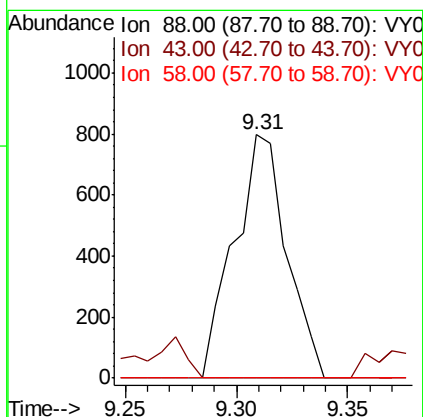
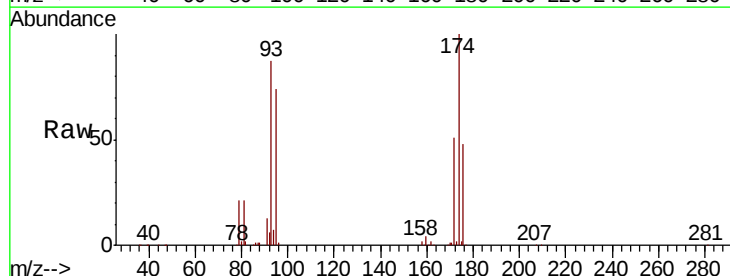
Instrument :  
MSVOA\_Y  
ClientSampled :  
PT-VOA-SOIL

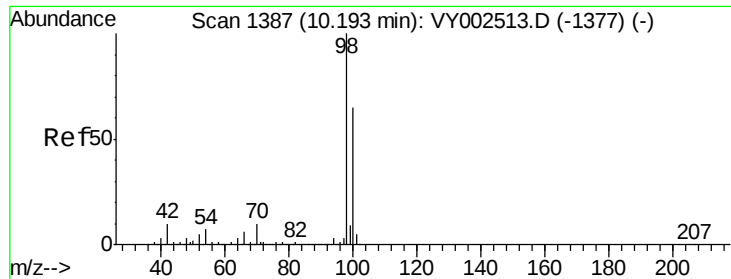
Tot Ion: 41 Resp: 76995  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.2 114.4#  
39 72.7 42.7 64.1#



#49  
1,4-Dioxane  
Concen: 47.915 ug/l  
RT: 9.31 min Scan# 1242  
Delta R.T. -0.00 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

Tgt Ion: 88 Resp: 1306  
Ion Ratio Lower Upper  
88 100  
43 0.0 22.8 34.2#  
58 0.0 51.4 77.2#





#50

Toluene-d8

Concen: 50.602 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

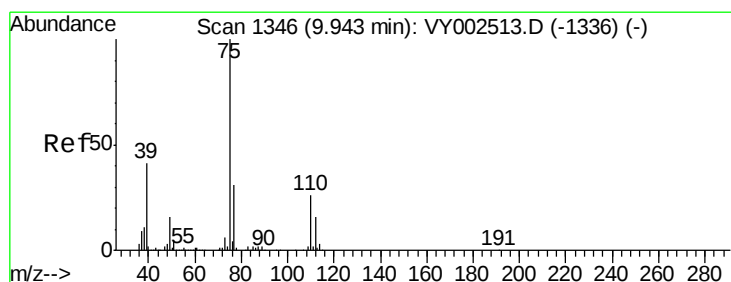
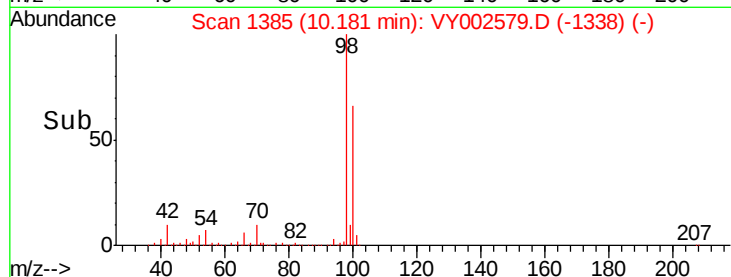
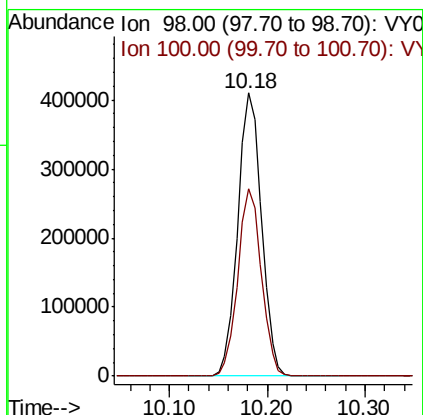
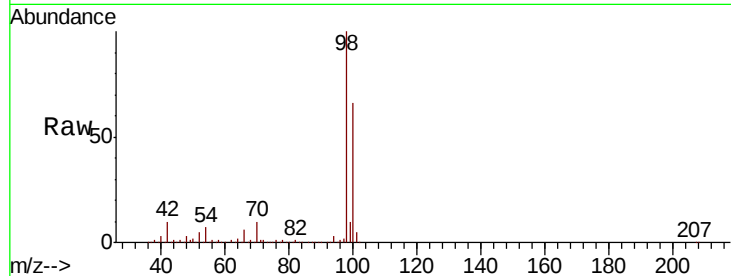
PT-VOA-SOIL

Tot Ion: 98 Resp: 691958

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.2



#54

cis-1,3-Dichloropropene

Concen: 118.920 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

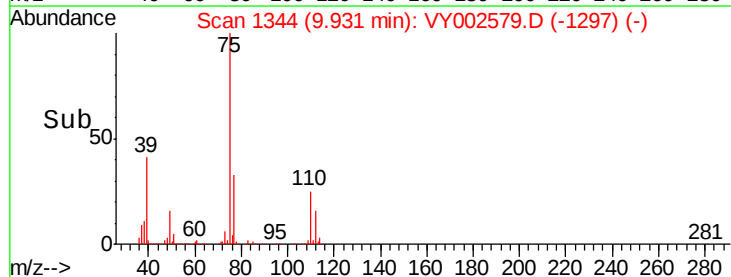
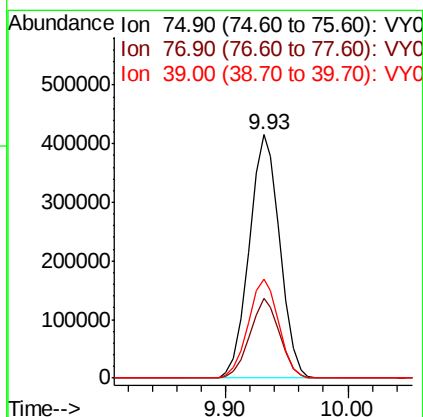
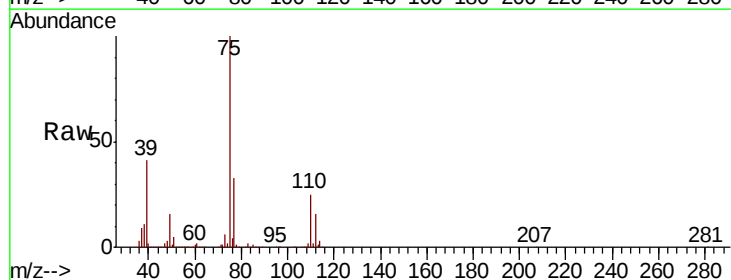
Tgt Ion: 75 Resp: 721008

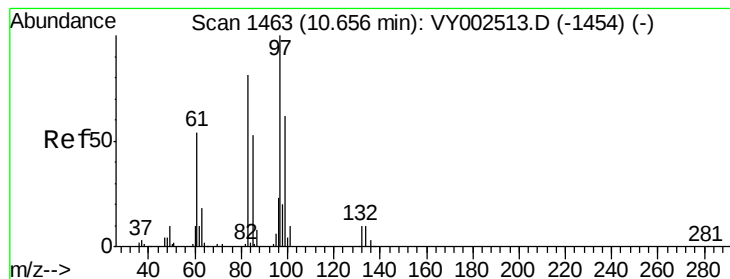
Ion Ratio Lower Upper

75 100

77 32.7 25.1 37.7

39 40.5 32.7 49.1





#55

1,1,2-Trichloroethane

Concen: 61.136 ug/l

RT: 10.64 min Scan# 1461

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

PT-VOA-SOIL

Tot Ion: 97 Resp: 183529

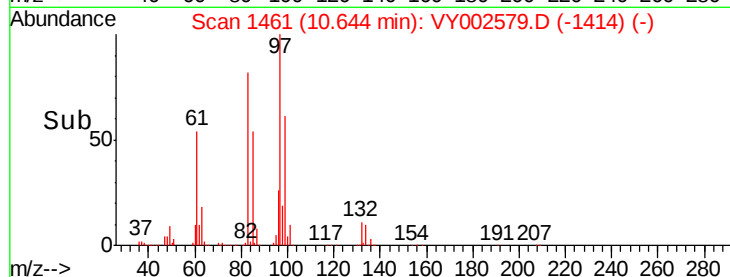
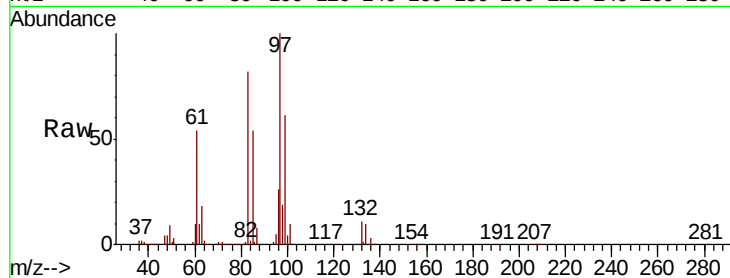
Ion Ratio Lower Upper

97 100

83 82.1 65.1 97.7

85 54.2 42.7 64.1

99 61.3 50.0 75.0

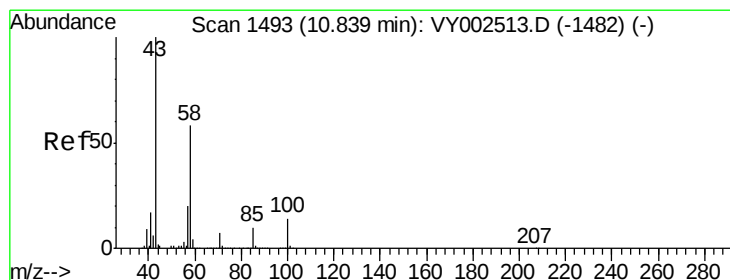
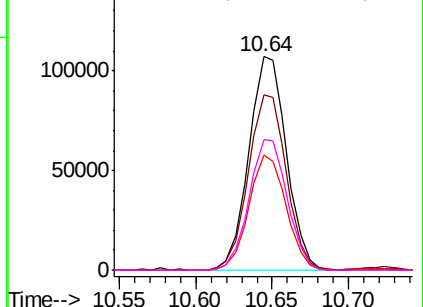


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 98.90 (98.60 to 99.60): VY0



#59

2-Hexanone

Concen: 324.544 ug/l

RT: 10.83 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VY002579.D

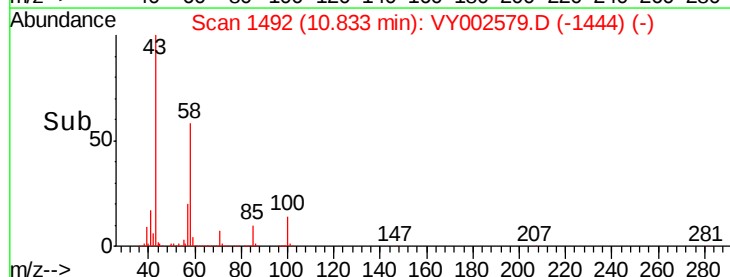
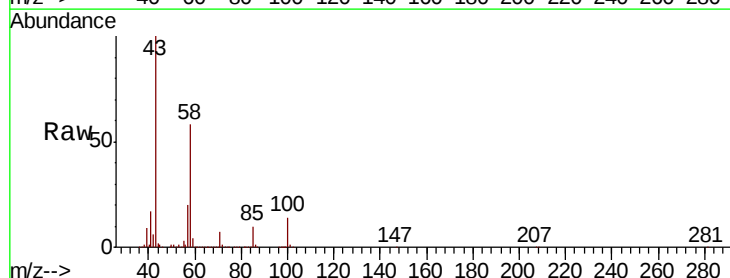
Acq: 05 May 2020 12:06

Tgt Ion: 43 Resp: 569328

Ion Ratio Lower Upper

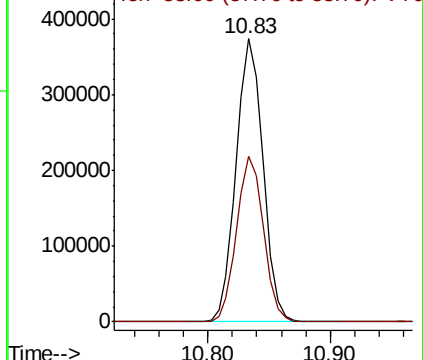
43 100

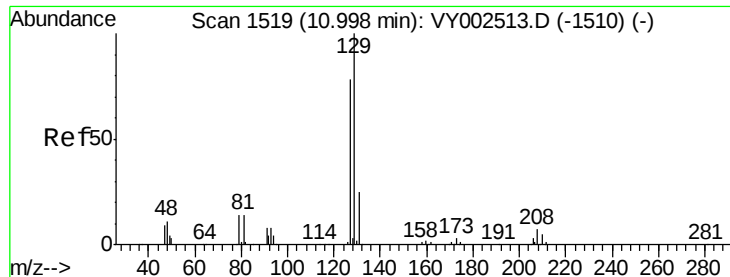
58 58.4 29.1 87.3



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#60

Dibromochloromethane

Concen: 122.394 ug/l

RT: 10.99 min Scan# 1517

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

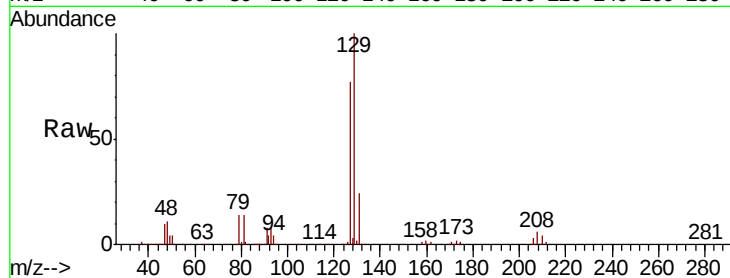
PT-VOA-SOIL

Tot Ion:129 Resp: 467317

Ion Ratio Lower Upper

129 100

127 77.4 39.0 117.0



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.99

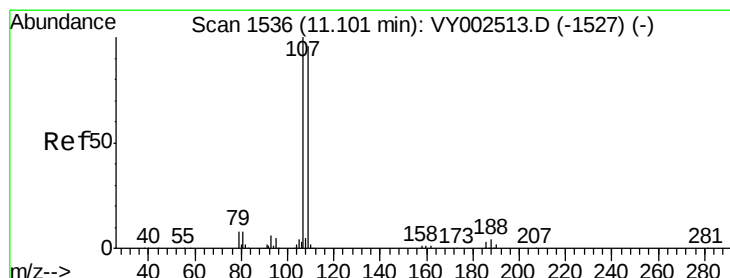
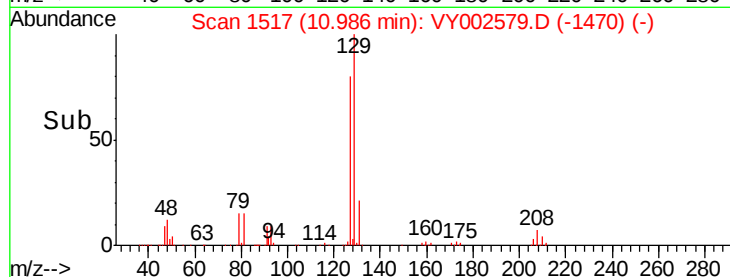
300000

200000

100000

0

Time-->



#61

1,2-Dibromoethane

Concen: 105.871 ug/l

RT: 11.09 min Scan# 1534

Delta R.T. -0.01 min

Lab File: VY002579.D

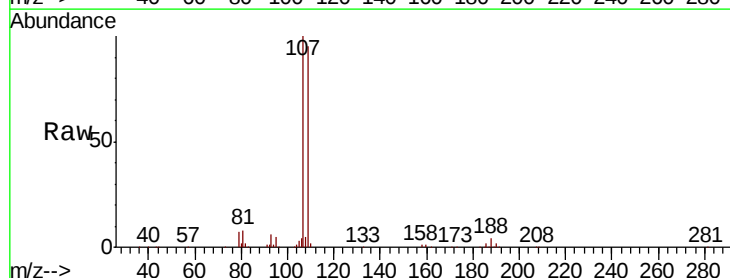
Acq: 05 May 2020 12:06

Tgt Ion:107 Resp: 314700

Ion Ratio Lower Upper

107 100

109 94.9 75.8 113.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.09

200000

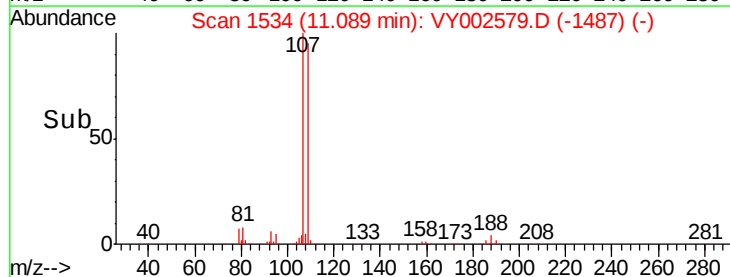
150000

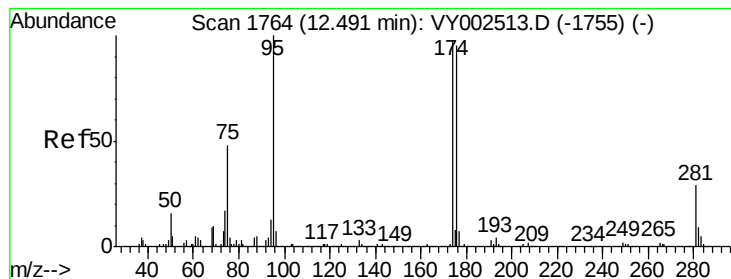
100000

50000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 49.944 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

PT-VOA-SOIL

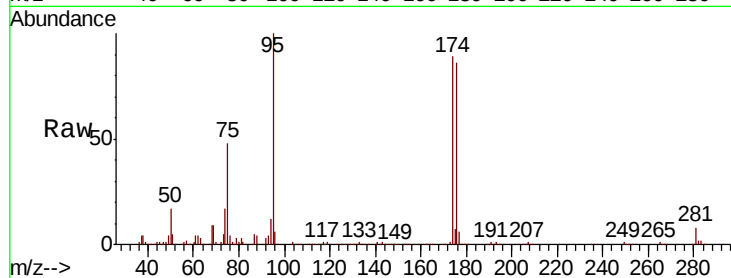
Tot Ion: 95 Resp: 231747

Ion Ratio Lower Upper

95 100

174 93.2 0.0 188.8

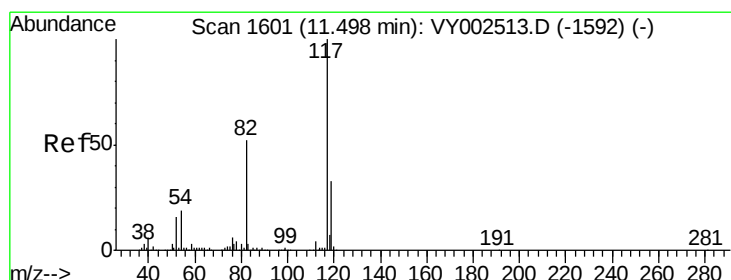
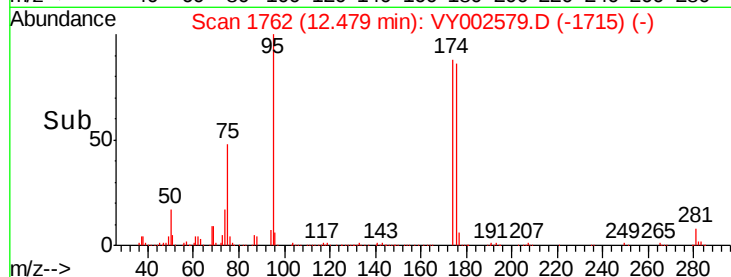
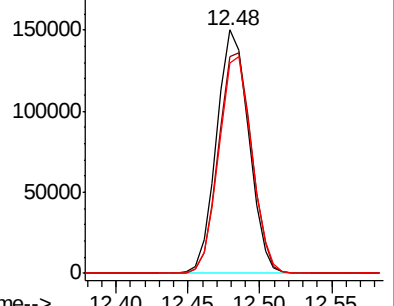
176 90.9 0.0 183.2



Abundance Ion 94.90 (94.60 to 95.60): VY002513.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY002513.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY002513.D (-1755) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

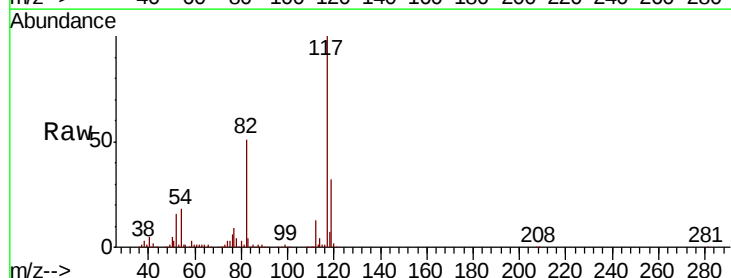
Tgt Ion: 117 Resp: 546014

Ion Ratio Lower Upper

117 100

82 50.7 41.3 61.9

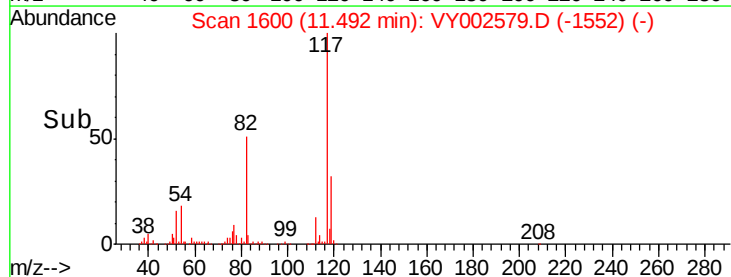
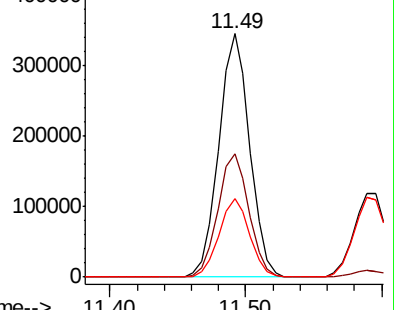
119 32.2 26.0 39.0

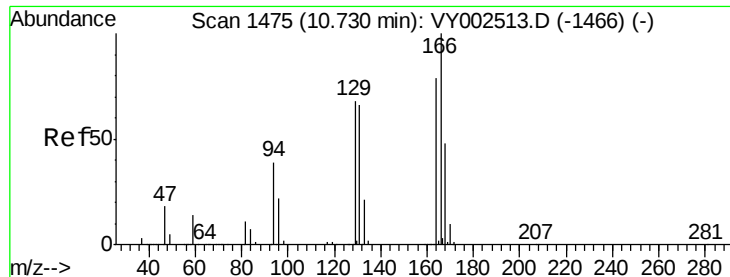


Abundance Ion 116.90 (116.60 to 117.60): VY002513.D (-1592) (-)

Ion 82.00 (81.70 to 82.70): VY002513.D (-1592) (-)

Ion 118.90 (118.60 to 119.60): VY002513.D (-1592) (-)





#64

Tetrachloroethene

Concen: 29.959 ug/l

RT: 10.72 min Scan# 1473

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

PT-VOA-SOIL

Tot Ion:164 Resp: 145339

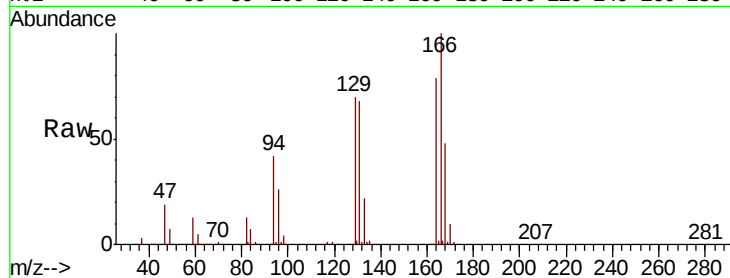
Ion Ratio Lower Upper

164 100

166 127.3 100.7 151.1

129 89.2 68.3 102.5

131 86.6 66.8 100.2

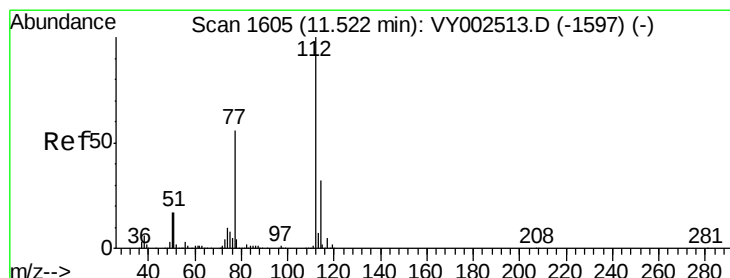
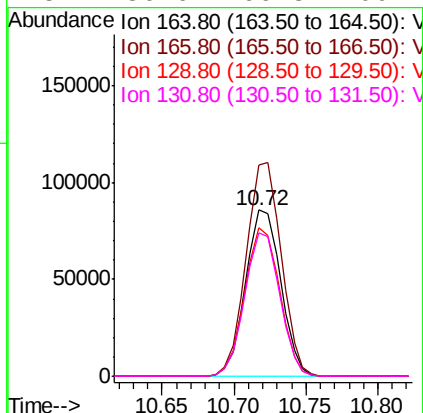
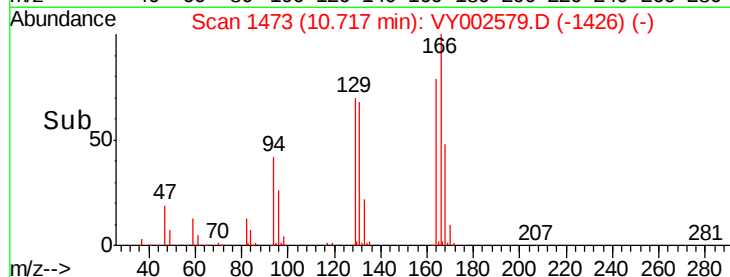


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 131.869 ug/l

RT: 11.52 min Scan# 1604

Delta R.T. -0.01 min

Lab File: VY002579.D

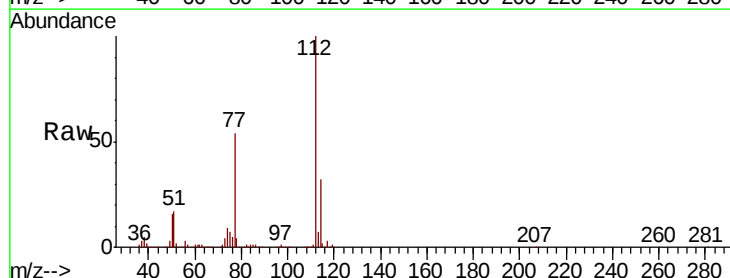
Acq: 05 May 2020 12:06

Tgt Ion:112 Resp: 1368767

Ion Ratio Lower Upper

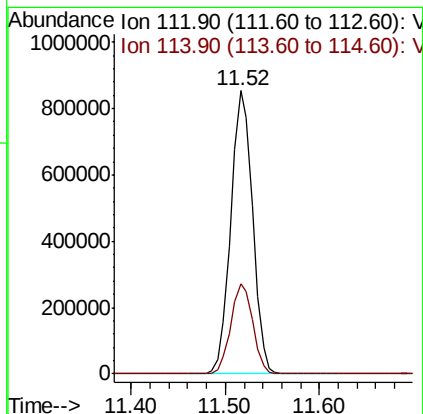
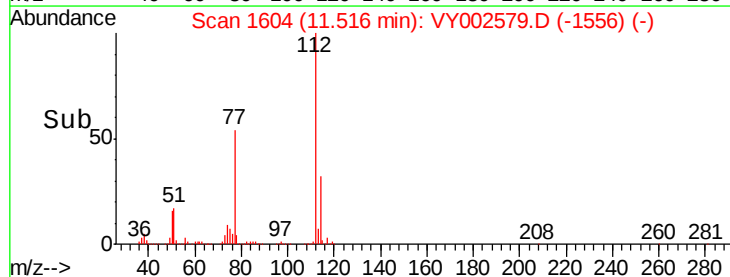
112 100

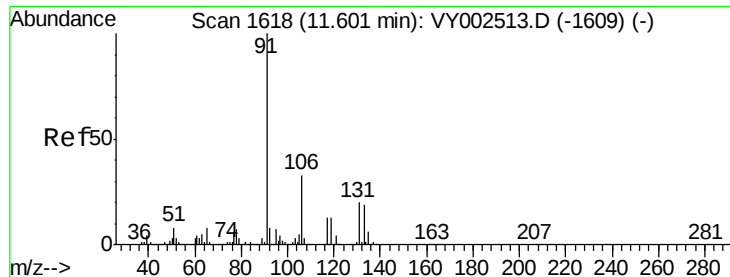
114 31.8 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 76.755 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

PT-VOA-SOIL

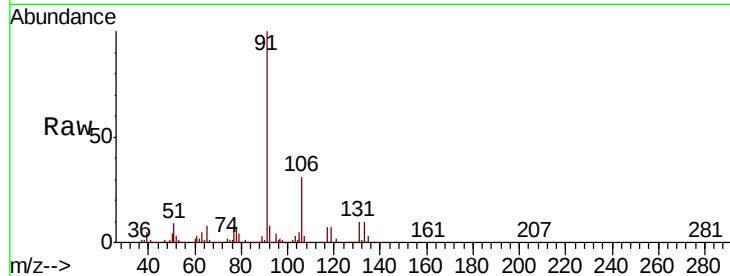
Tot Ion:131 Resp: 295735

Ion Ratio Lower Upper

131 100

133 94.9 48.1 144.4

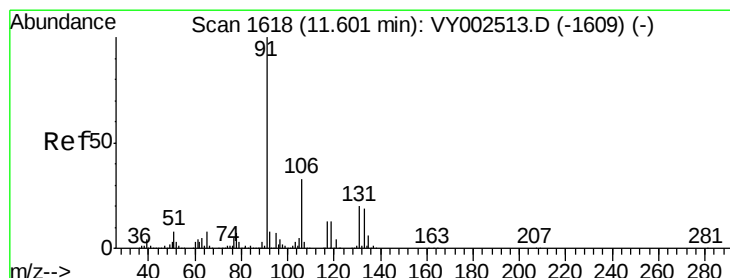
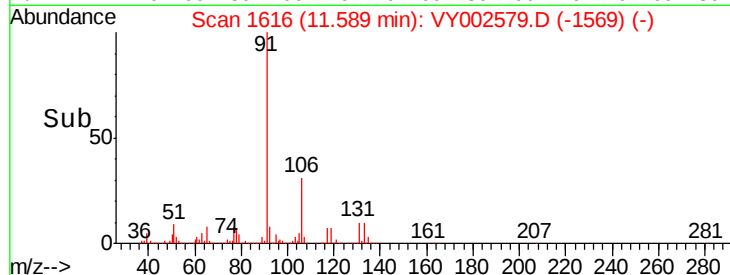
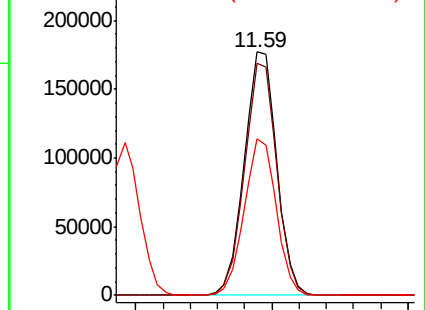
119 63.5 31.6 95.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 157.160 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VY002579.D

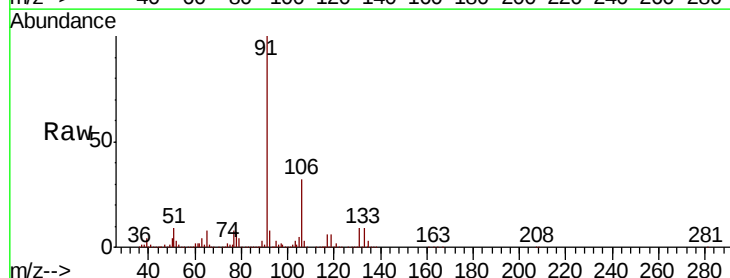
Acq: 05 May 2020 12:06

Tgt Ion: 91 Resp: 2865452

Ion Ratio Lower Upper

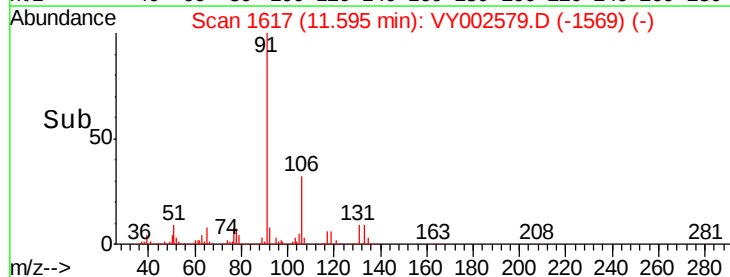
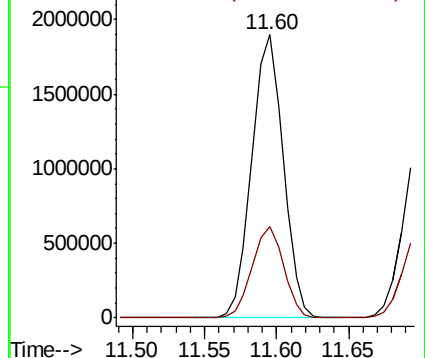
91 100

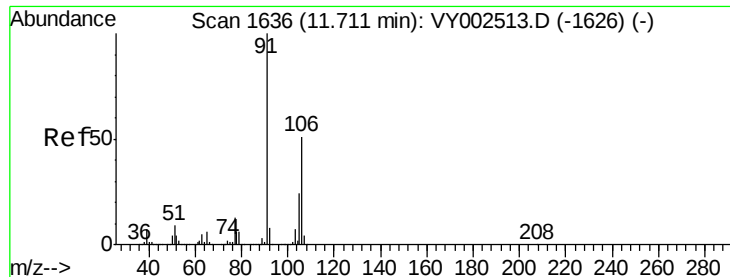
106 32.4 26.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 183.669 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampled :

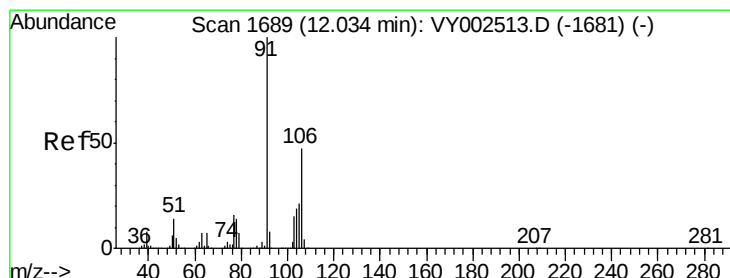
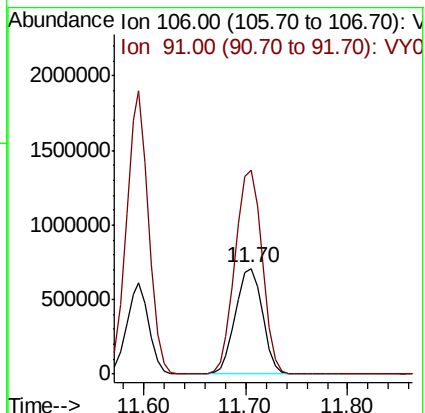
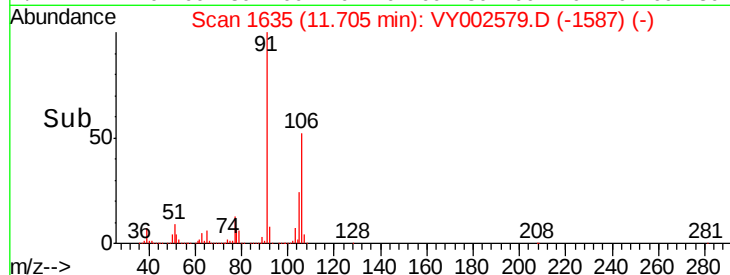
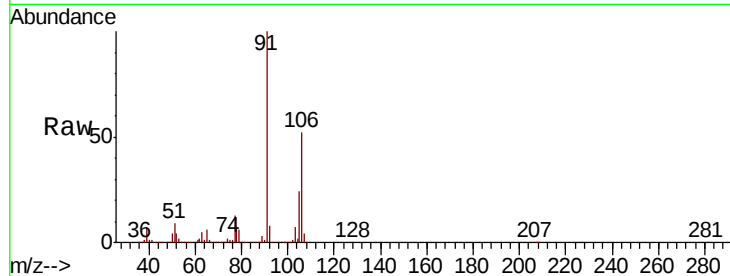
PT-VOA-SOIL

Tot Ion:106 Resp: 1295722

Ion Ratio Lower Upper

106 100

91 193.7 155.2 232.8



#69

o-Xylene

Concen: 190.883 ug/l

RT: 12.03 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VY002579.D

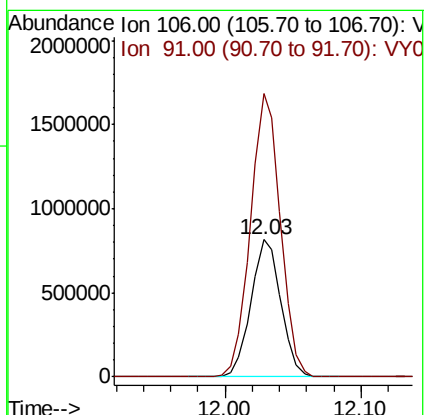
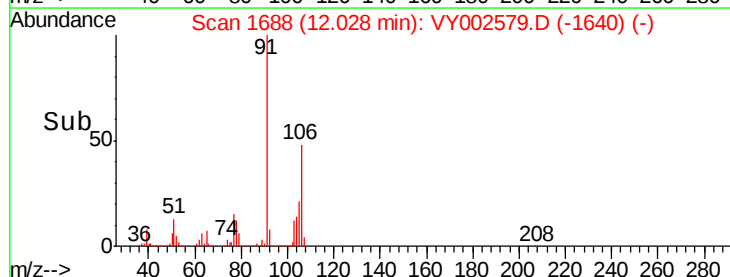
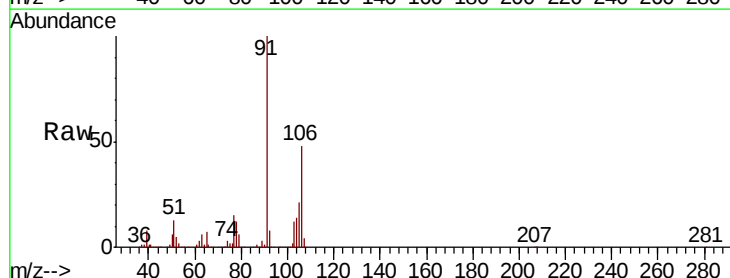
Acq: 05 May 2020 12:06

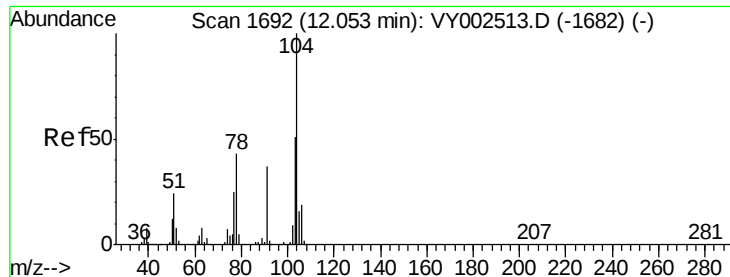
Tgt Ion:106 Resp: 1260856

Ion Ratio Lower Upper

106 100

91 205.5 103.8 311.3

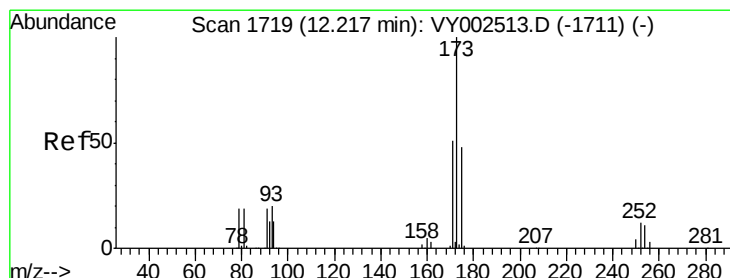
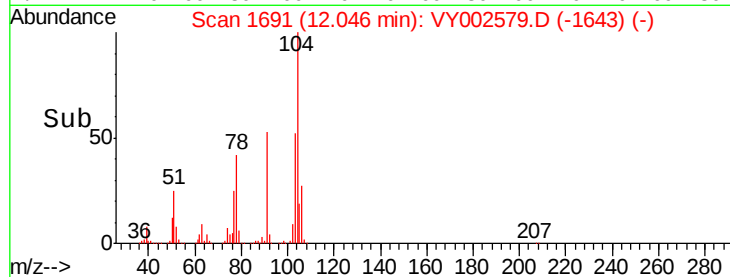
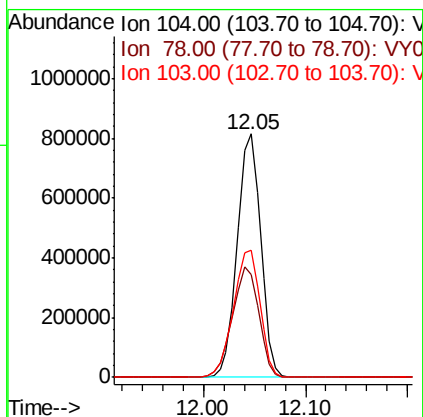
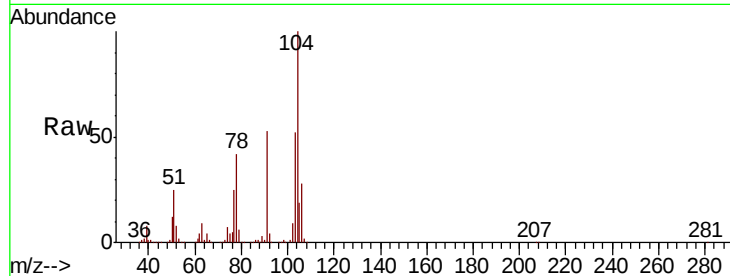




#70  
Stvrene  
Concen: 114.803 ug/l  
RT: 12.05 min Scan# 1691  
Delta R.T. -0.01 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

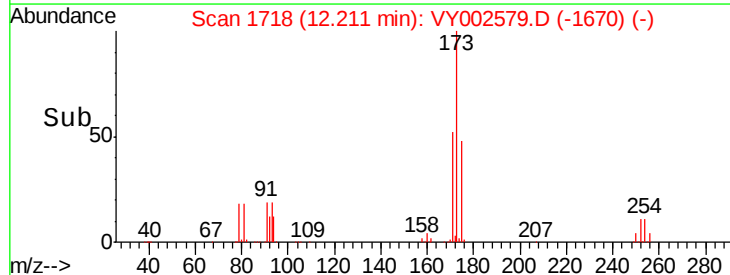
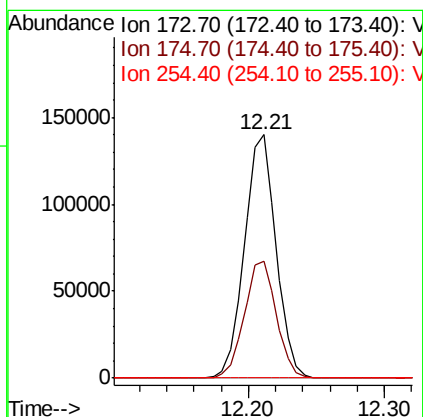
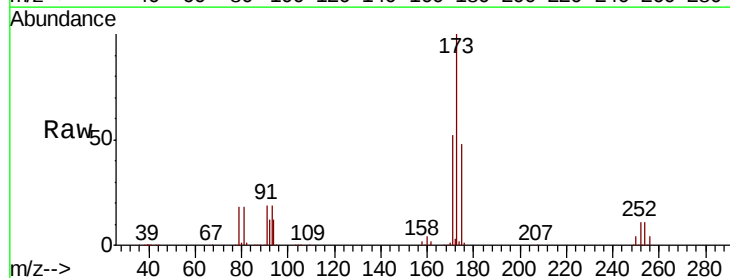
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PT-VOA-SOIL

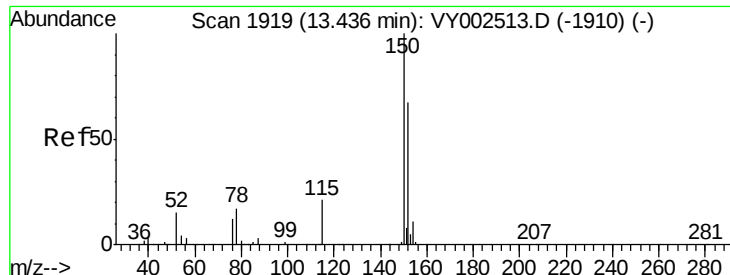
Tot Ion:104 Resp: 1296361  
Ion Ratio Lower Upper  
104 100  
78 51.0 37.4 56.0  
103 59.0 43.9 65.9



#71  
Bromoform  
Concen: 94.937 ug/l  
RT: 12.21 min Scan# 1718  
Delta R.T. -0.01 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

Tgt Ion:173 Resp: 227035  
Ion Ratio Lower Upper  
173 100  
175 48.9 24.3 72.8  
254 0.1 0.2 0.2#



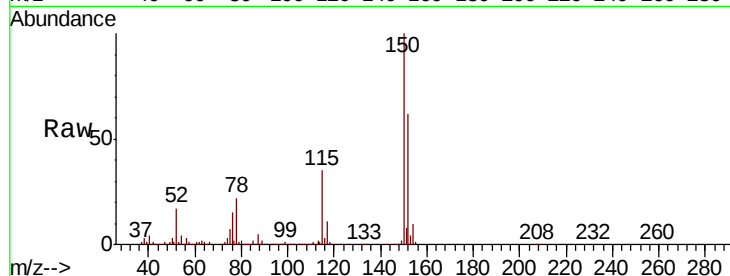


#72

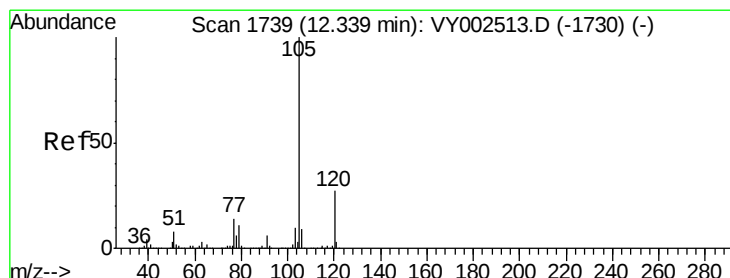
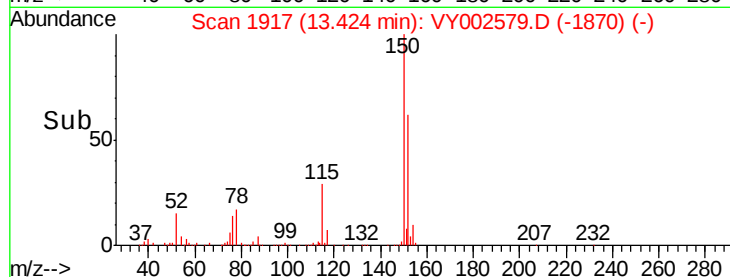
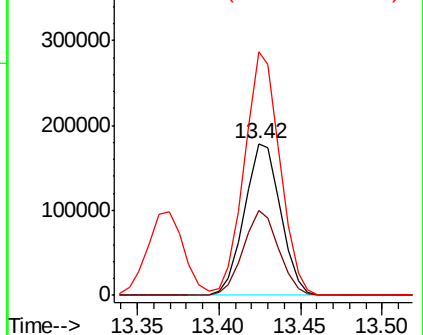
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.01 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PT-VOA-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.4  | 27.5  | 82.4  |
| 150     | 156.9 | 0.0   | 346.4 |



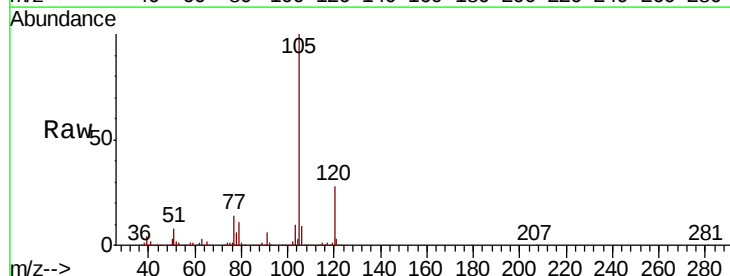
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



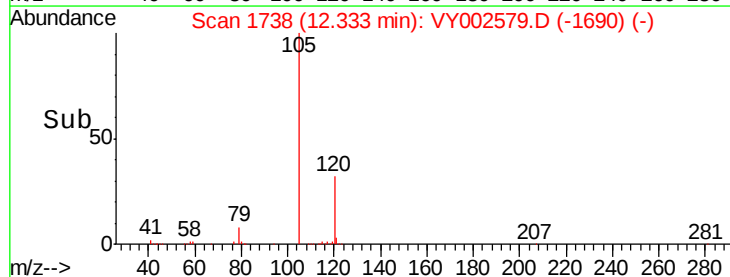
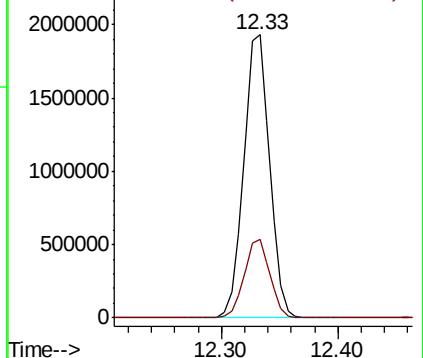
#73

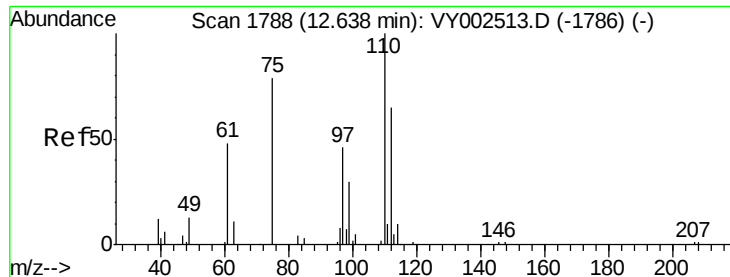
Isopropylbenzene  
Concen: 166.466 ug/l  
RT: 12.33 min Scan# 1738  
Delta R.T. -0.01 min  
Lab File: VY002579.D  
Acq: 05 May 2020 12:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.6  | 13.8  | 41.3  |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

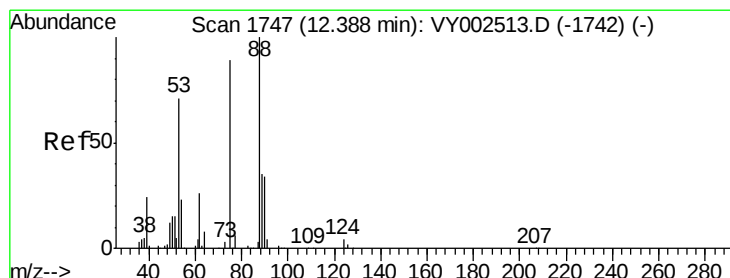
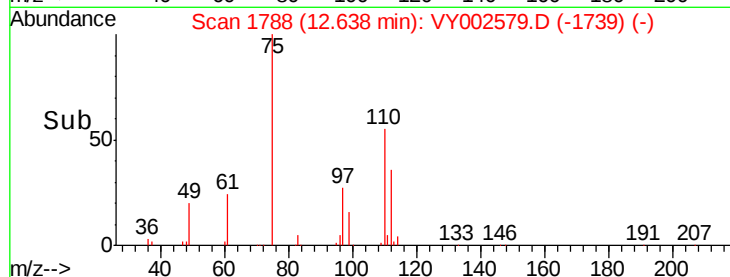
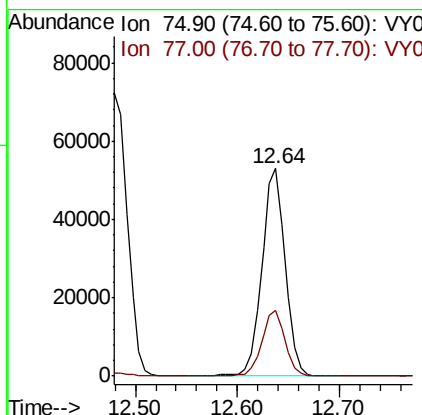
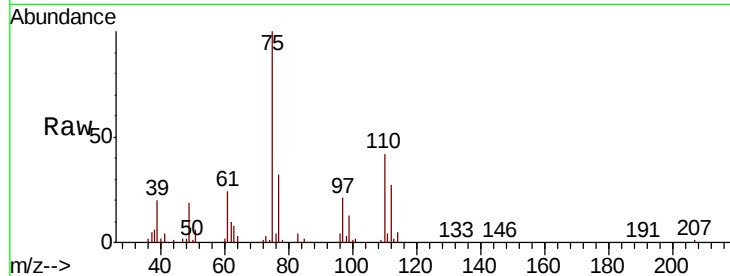




#76  
 1,2,3-Trichloropropane  
 Concen: 34.301 ug/l  
 RT: 12.64 min Scan# 1788  
 Delta R.T. -0.00 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

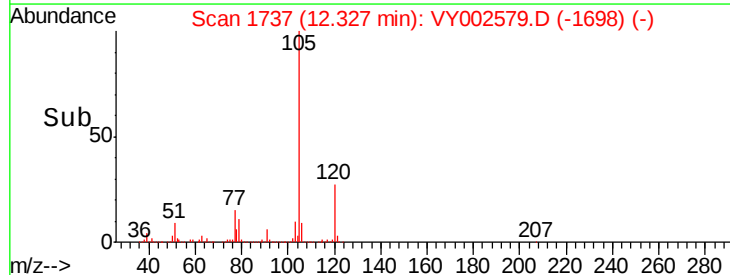
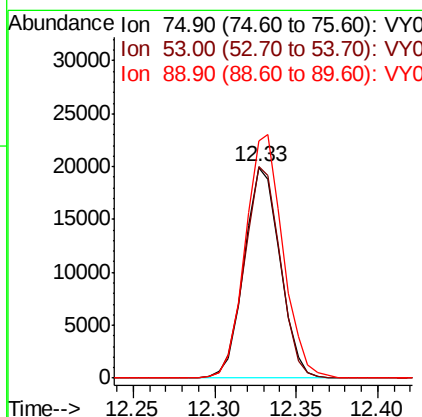
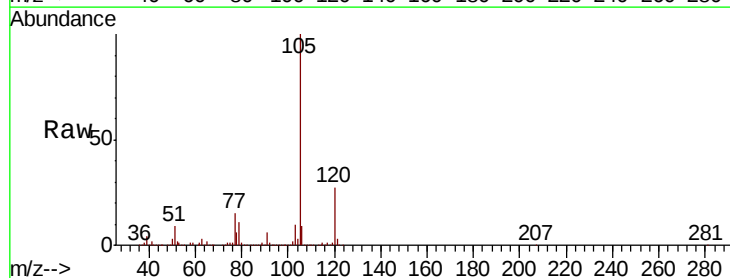
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 PT-VOA-SOIL

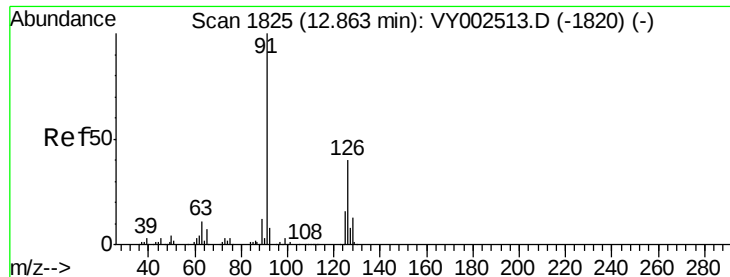
Tot Ion: 75 Resp: 84288  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 24.931 ug/l  
 RT: 12.33 min Scan# 1737  
 Delta R.T. -0.06 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

Tgt Ion: 75 Resp: 30552  
 Ion Ratio Lower Upper  
 75 100  
 53 100.7 67.4 101.0  
 89 120.9 37.4 56.0#





#82

4-Chlorotoluene

Concen: 19.198 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.26 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

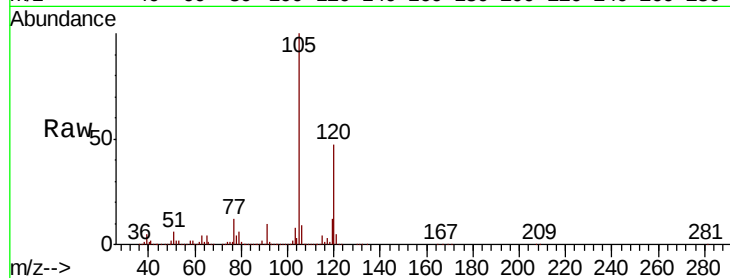
PT-VOA-SOIL

Tot Ion: 91 Resp: 232314

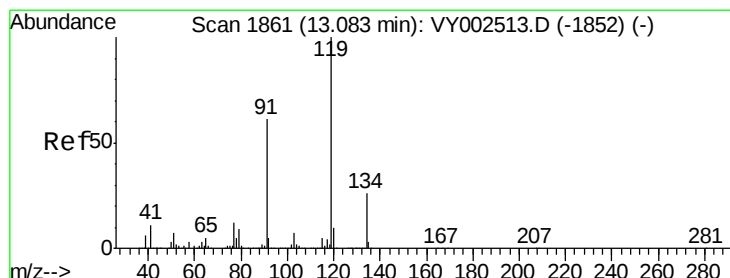
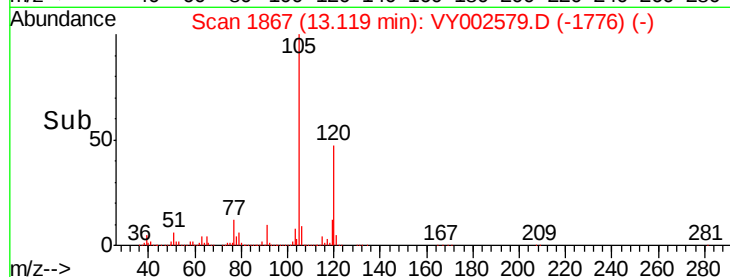
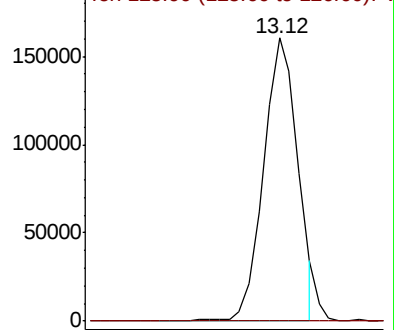
Ion Ratio Lower Upper

91 100

126 0.0 18.5 55.5#



Abundance Ion 91.00 (90.70 to 91.70): VY002513.D (-1820) (-)



#83

tert-Butylbenzene

Concen: 22.666 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.04 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

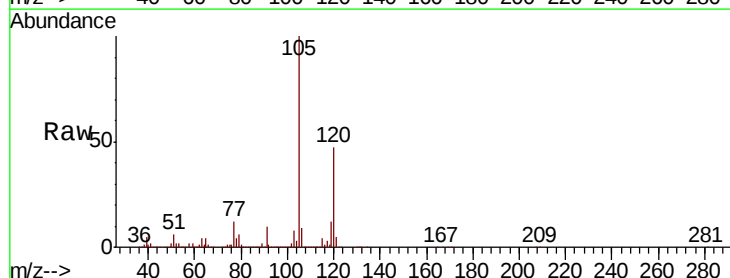
Tgt Ion: 119 Resp: 295224

Ion Ratio Lower Upper

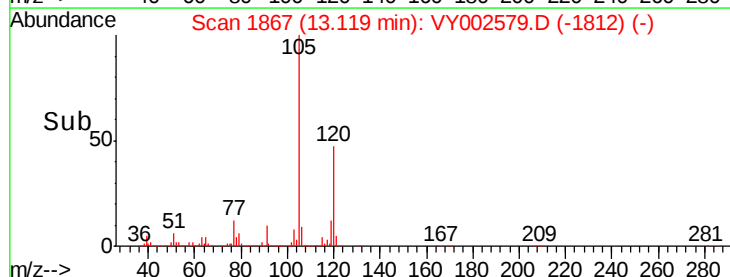
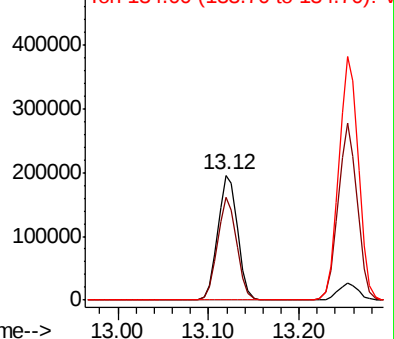
119 100

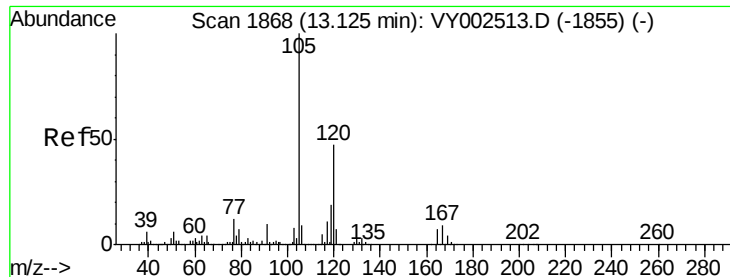
91 80.3 30.6 91.6

134 0.0 13.5 40.4#



Abundance Ion 119.00 (118.70 to 119.70): VY002513.D (-1852) (-)





#84

1,2,4-Trimethylbenzene

Concen: 157.464 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

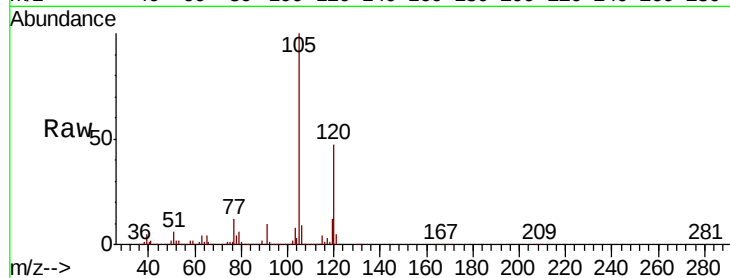
PT-VOA-SOIL

Tot Ion:105 Resp: 2331209

Ion Ratio Lower Upper

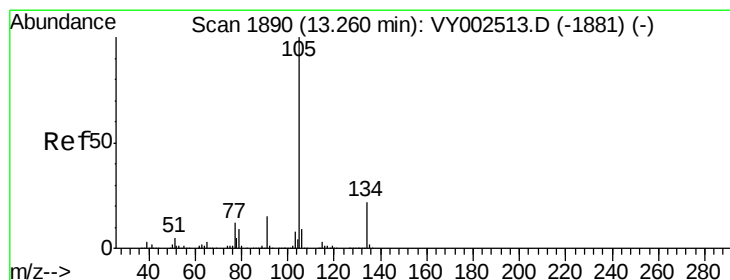
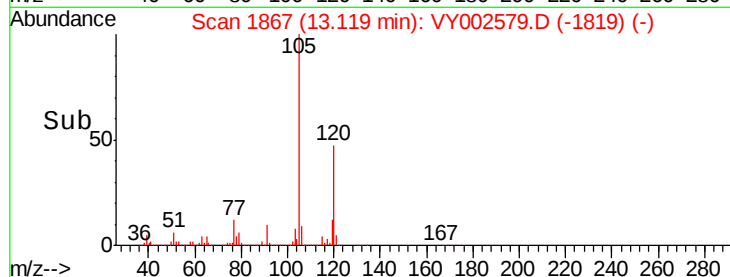
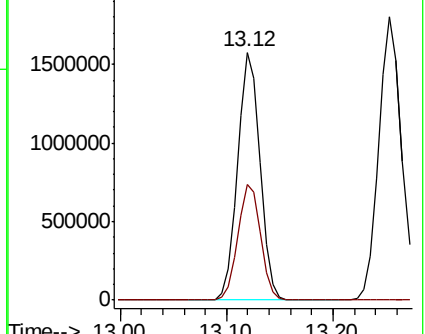
105 100

120 47.4 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 146.991 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.01 min

Lab File: VY002579.D

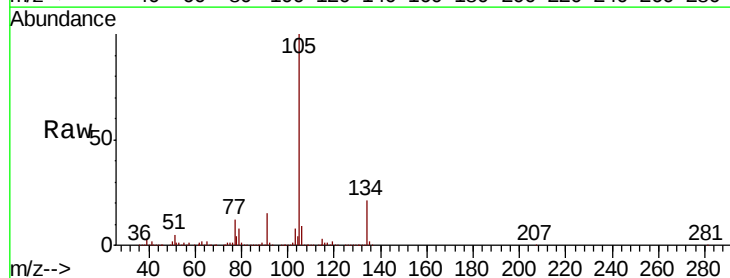
Acq: 05 May 2020 12:06

Tgt Ion:105 Resp: 2656724

Ion Ratio Lower Upper

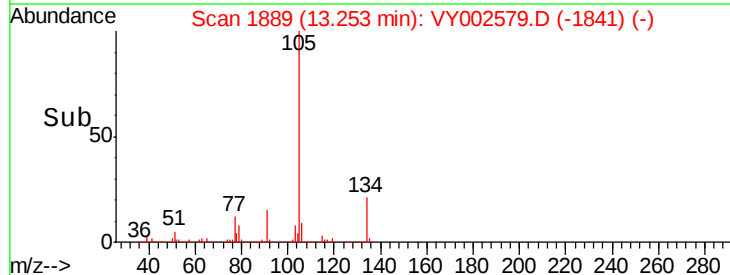
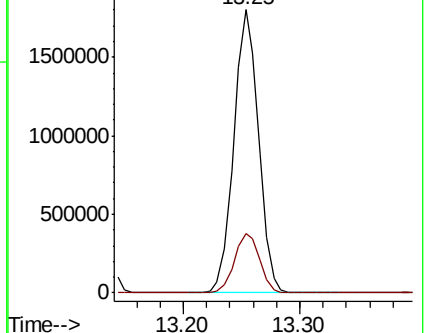
105 100

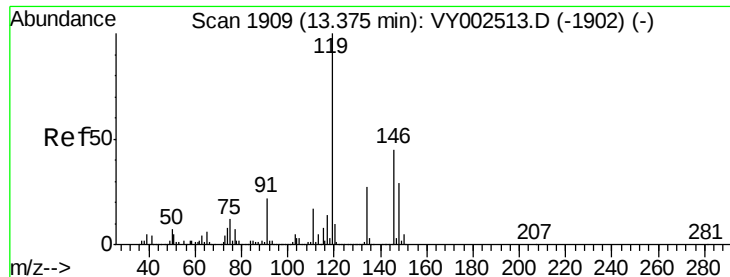
134 21.5 10.8 32.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#86

p-Isopropyltoluene

Concen: 2.368 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.12 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

Instrument :

MSVOA\_Y

ClientSampleId :

PT-VOA-SOIL

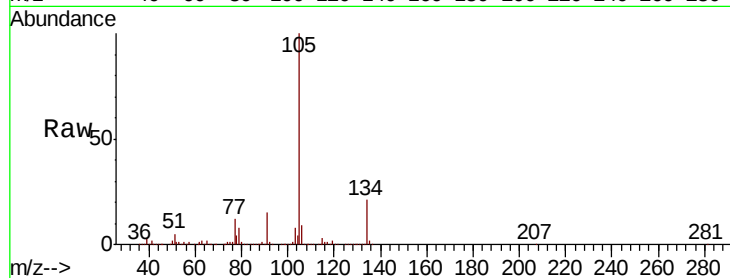
Tot Ion:119 Resp: 40104

Ion Ratio Lower Upper

119 100

134 1422.7 13.5 40.5#

91 1008.2 10.9 32.9#

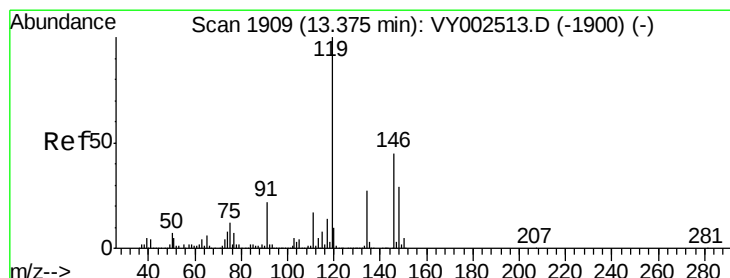
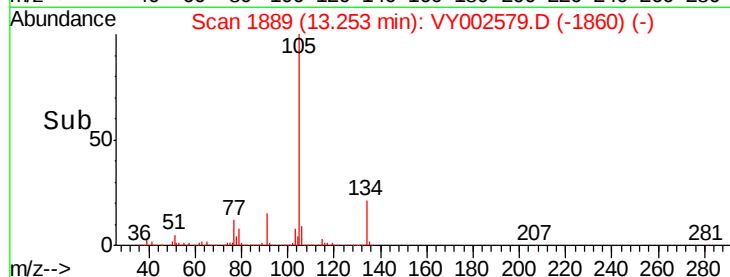
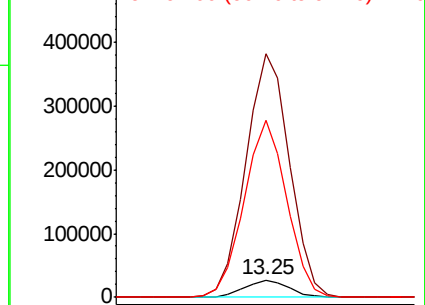


Abundance

Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0



#87

1,3-Dichlorobenzene

Concen: 174.092 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.01 min

Lab File: VY002579.D

Acq: 05 May 2020 12:06

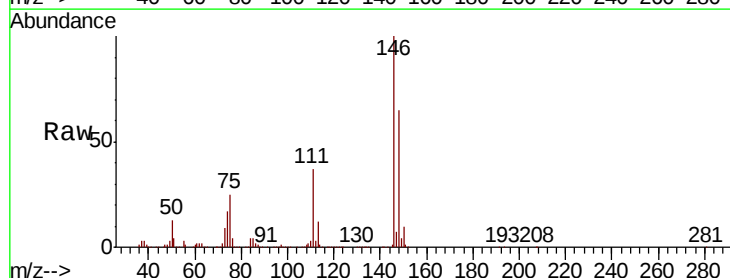
Tgt Ion:146 Resp: 1475272

Ion Ratio Lower Upper

146 100

111 37.2 18.8 56.3

148 64.1 32.1 96.3

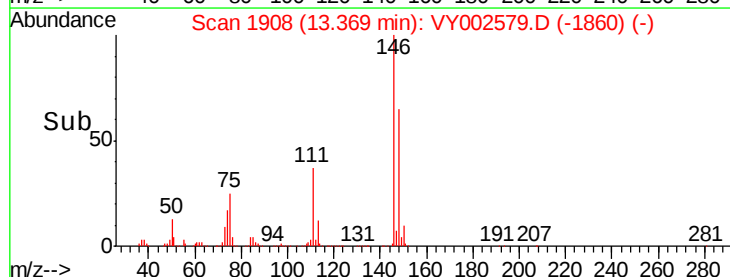
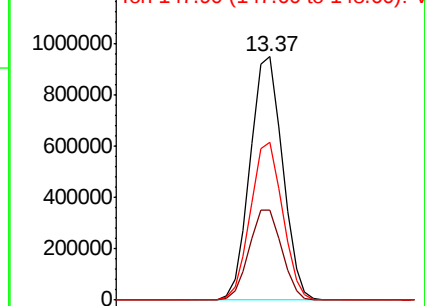


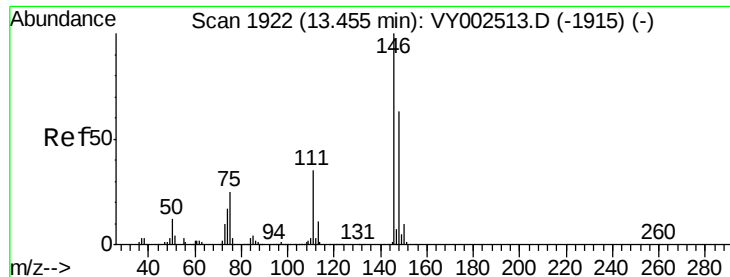
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

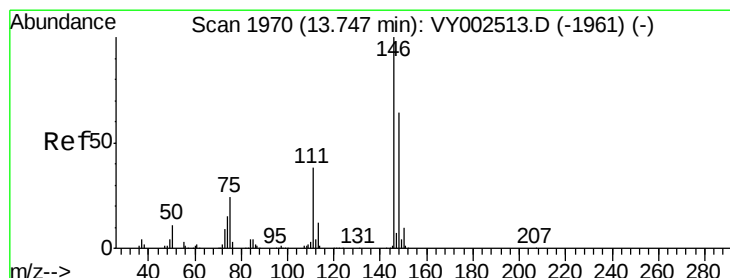
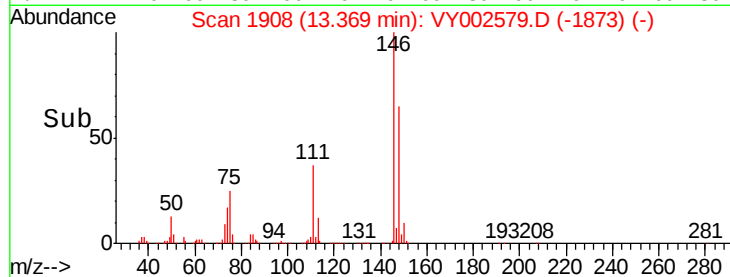
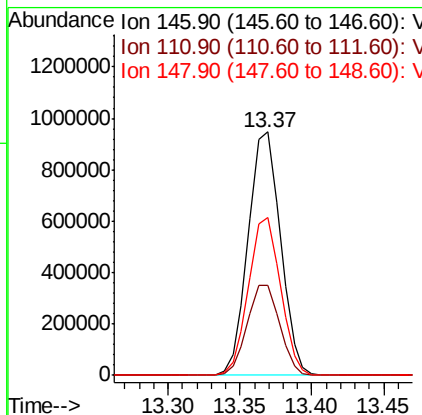
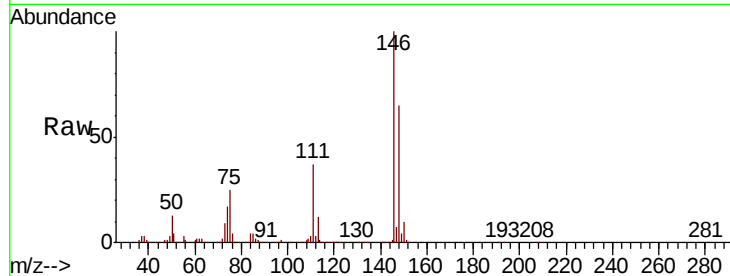




#88  
 1,4-Dichlorobenzene  
 Concen: 175.815 ug/l  
 RT: 13.37 min Scan# 1908  
 Delta R.T. -0.09 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

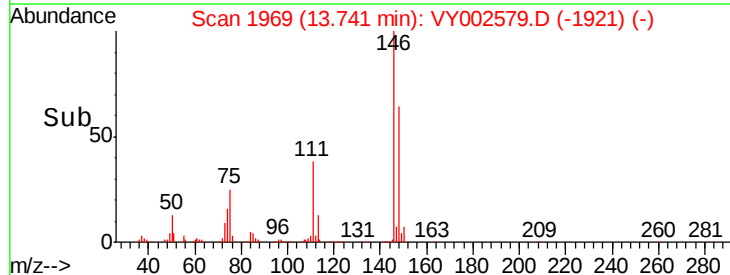
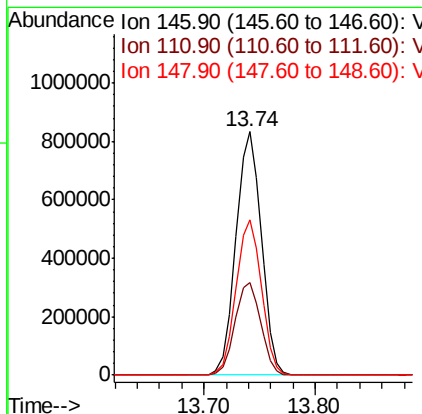
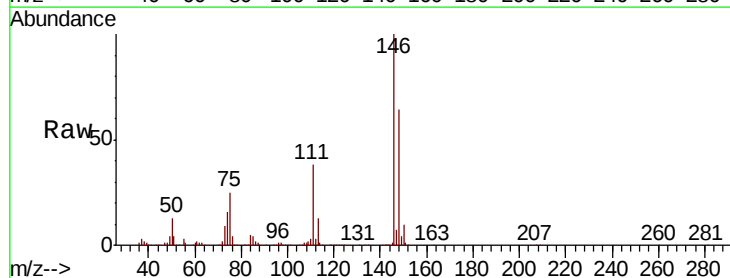
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PT-VOA-SOIL

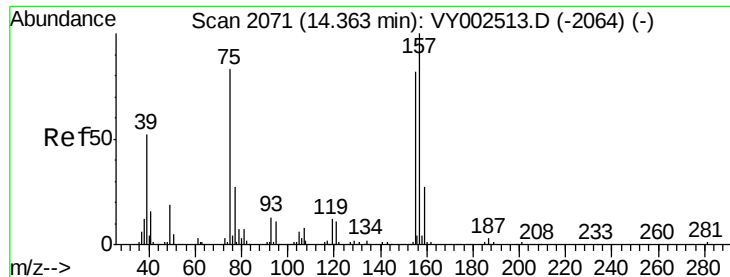
Tot Ion:146 Resp: 1475272  
 Ion Ratio Lower Upper  
 146 100  
 111 37.2 18.1 54.1  
 148 64.1 31.9 95.5



#91  
 1,2-Dichlorobenzene  
 Concen: 173.942 ug/l  
 RT: 13.74 min Scan# 1969  
 Delta R.T. -0.01 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

Tgt Ion:146 Resp: 1315258  
 Ion Ratio Lower Upper  
 146 100  
 111 38.6 19.1 57.5  
 148 63.7 31.9 95.7

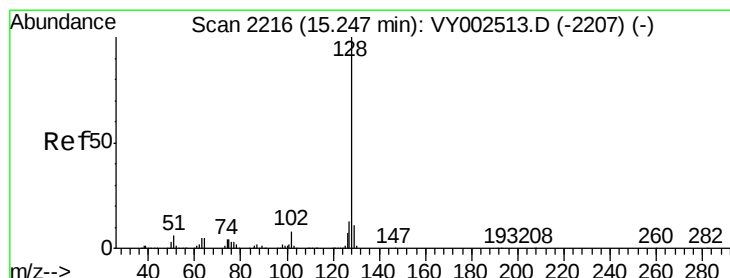
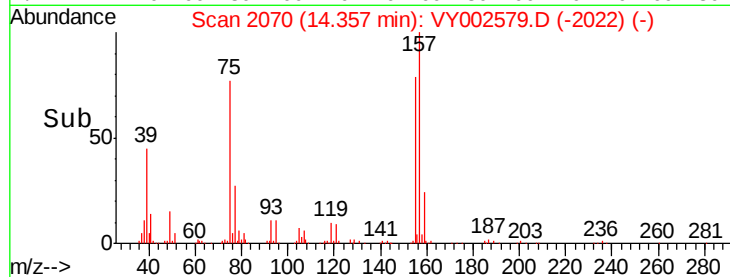
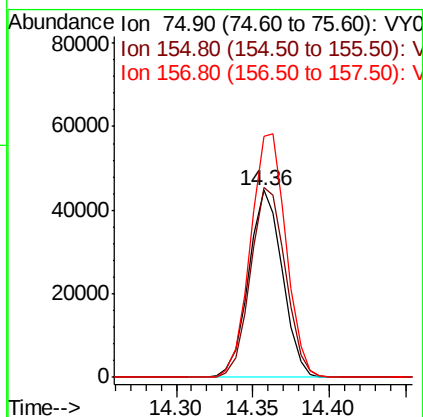
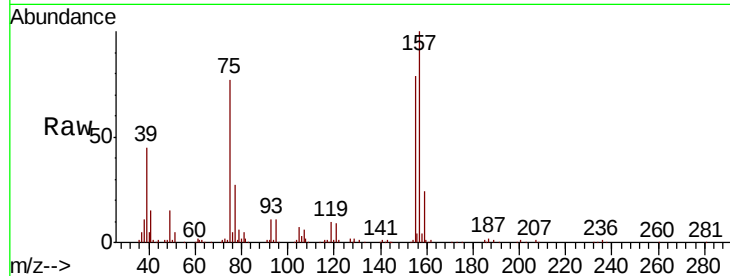




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 129.707 ug/l  
 RT: 14.36 min Scan# 2070  
 Delta R.T. -0.01 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PT-VOA-SOIL

Tot Ion: 75 Resp: 68910  
 Ion Ratio Lower Upper  
 75 100  
 155 104.6 51.3 153.9  
 157 136.2 65.0 195.0



#95  
 Naphthalene  
 Concen: 151.251 ug/l  
 RT: 15.24 min Scan# 2215  
 Delta R.T. -0.01 min  
 Lab File: VY002579.D  
 Acq: 05 May 2020 12:06

Tgt Ion: 128 Resp: 1514721  
 Ion Ratio Lower Upper  
 128 100  
 127 12.8 10.5 15.7  
 129 11.0 8.8 13.2

