

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072018\  
 Data File : VX003515.D  
 Acq On : 20 Jul 2018 17:52  
 Operator : JC/SP  
 Sample : J3170-08DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-071118DL

Quant Time: Jul 20 23:20:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 17:09:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 270048   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 408557   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 385400   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 207283   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 175269   | 54.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.66% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 152910   | 49.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.28%  |      |
| 50) Toluene-d8            | 8.72   | 98  | 580605   | 49.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.28%  |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 198464   | 46.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.00%  |      |

## Target Compounds

|                                |       |     |        |            |   | Qvalue |
|--------------------------------|-------|-----|--------|------------|---|--------|
| 2) Dichlorodifluoromethane     | 1.20  | 85  | 660    | Below Cal  |   | 89     |
| 3) Chloromethane               | 1.32  | 50  | 949    | Below Cal  |   | 92     |
| 5) Bromomethane                | 1.65  | 94  | 2503   | Below Cal  |   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet  | 2.39  | 101 | 4936   | 1.65 ug/l  |   | 98     |
| 10) Methyl Iodide              | 2.52  | 142 | 4110   | 1.14 ug/l  |   | 92     |
| 12) 1,1-Dichloroethene         | 2.37  | 96  | 1749   | 0.63 ug/l  |   | 94     |
| 13) Acrolein                   | 2.31  | 56  | 251    | 0.88 ug/l  | # | 25     |
| 15) Acrylonitrile              | 3.15  | 53  | 1138   | 0.71 ug/l  | # | 89     |
| 16) Acetone                    | 2.44  | 43  | 1361   | 1.13 ug/l  | # | 69     |
| 17) Carbon Disulfide           | 2.57  | 76  | 6037   | 0.81 ug/l  | # | 94     |
| 18) Methyl Acetate             | 2.78  | 43  | 1173   | 0.31 ug/l  | # | 88     |
| 20) Methylene Chloride         | 2.86  | 84  | 1409   | Below Cal  | # | 74     |
| 21) trans-1,2-Dichloroethene   | 3.17  | 96  | 1104   | 0.36 ug/l  | # | 73     |
| 23) Vinyl Acetate              | 3.82  | 43  | 1853   | 0.24 ug/l  | # | 75     |
| 25) 2-Butanone                 | 4.73  | 43  | 850    | 0.42 ug/l  | # | 52     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96  | 1797   | 0.53 ug/l  | # | 1      |
| 29) Tetrahydrofuran            | 5.17  | 42  | 1094   | 0.82 ug/l  | # | 91     |
| 36) 1,1-Dichloropropene        | 5.80  | 75  | 1192   | 0.27 ug/l  |   | 92     |
| 44) Trichloroethene            | 7.21  | 130 | 239353 | 60.26 ug/l |   | 98     |
| 49) 1,4-Dioxane                | 7.76  | 88  | 159    | 2.10 ug/l  | # | 68     |
| 59) 2-Hexanone                 | 9.51  | 43  | 846    | 0.27 ug/l  |   | 88     |
| 64) Tetrachloroethene          | 9.34  | 164 | 1268   | 0.27 ug/l  |   | 96     |
| 65) Chlorobenzene              | 10.14 | 112 | 3010   | 0.30 ug/l  |   | 95     |
| 68) m/p-Xylenes                | 10.36 | 106 | 1693   | 0.27 ug/l  |   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 94038  | 25.25 ug/l | # | 33     |
| 78) n-propylbenzene            | 11.37 | 91  | 3464   | 0.22 ug/l  |   | 95     |
| 79) 2-Chlorotoluene            | 11.43 | 91  | 1956   | 0.20 ug/l  |   | 92     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 94038  | 70.69 ug/l | # | 7      |
| 82) 4-Chlorotoluene            | 11.52 | 91  | 2698   | 0.24 ug/l  |   | 97     |
| 85) sec-Butylbenzene           | 11.94 | 105 | 2811   | 0.20 ug/l  |   | 98     |
| 86) p-Isopropyltoluene         | 12.07 | 119 | 2578   | 0.20 ug/l  | # | 68     |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146 | 2484   | 0.33 ug/l  |   | 96     |
| 88) 1,4-Dichlorobenzene        | 12.03 | 146 | 2484   | 0.32 ug/l  |   | 96     |
| 89) n-Butylbenzene             | 12.39 | 91  | 3332   | 0.31 ug/l  |   | 98     |

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Sample : J3170-08DL 10X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-071118DL

Quant Time: Jul 20 23:20:05 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 19 17:09:44 2018  
Response via : Initial Calibration

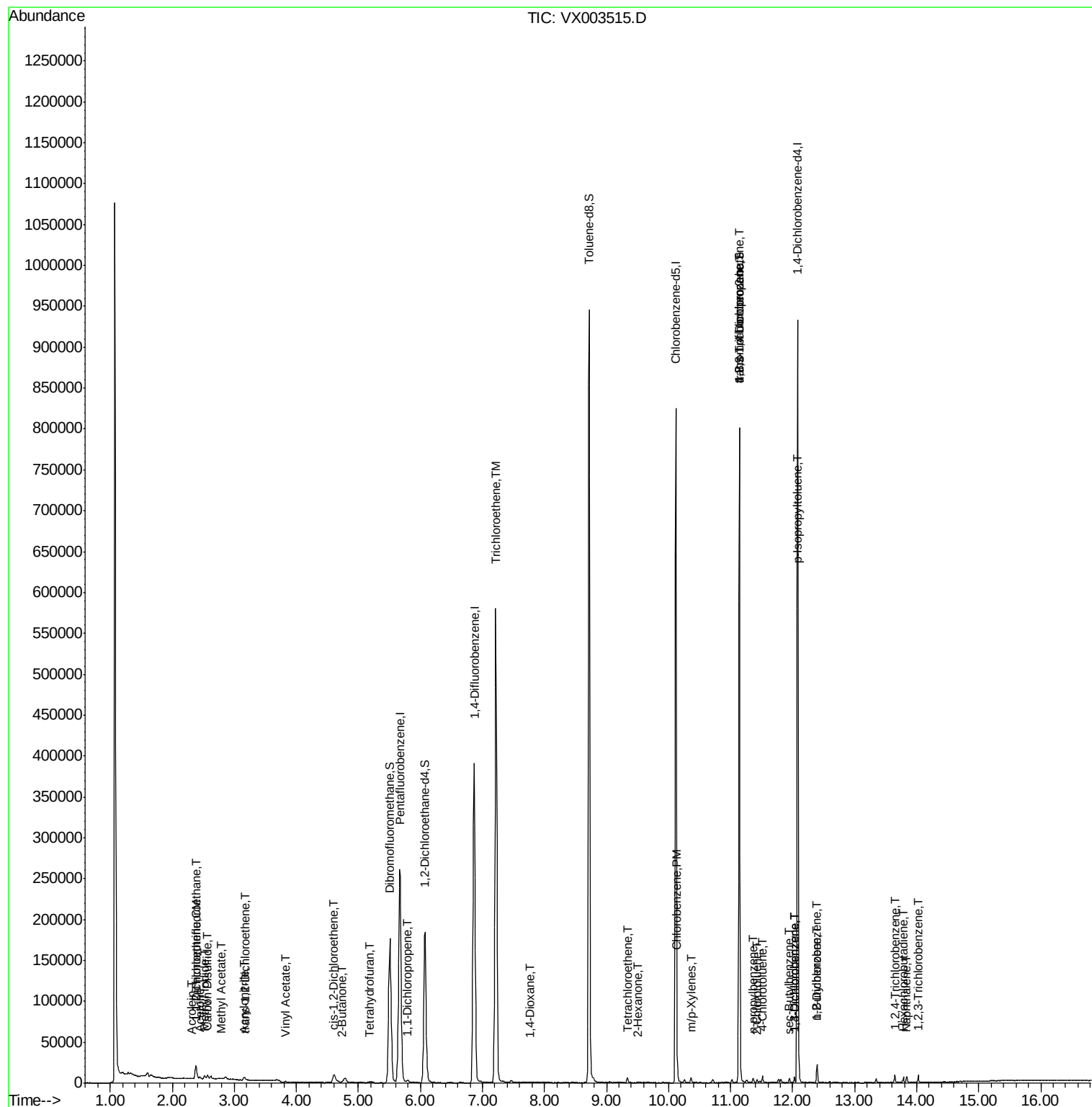
| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 91) 1,2-Dichlorobenzene    | 12.40 | 146  | 5294     | 0.71 | ug/l  | 95       |
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 2744     | 0.50 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 1444     | 0.55 | ug/l  | 92       |
| 95) Naphthalene            | 13.83 | 128  | 5234     | 0.36 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 2381     | 0.44 | ug/l  | 100      |

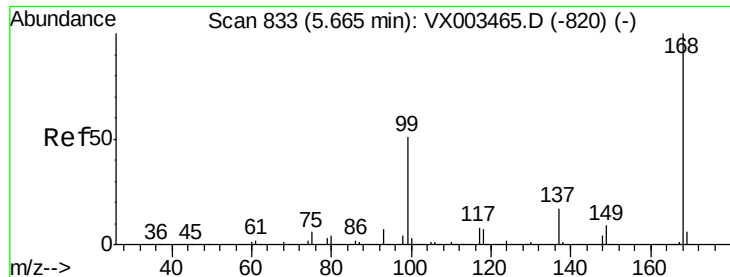
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072018\  
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

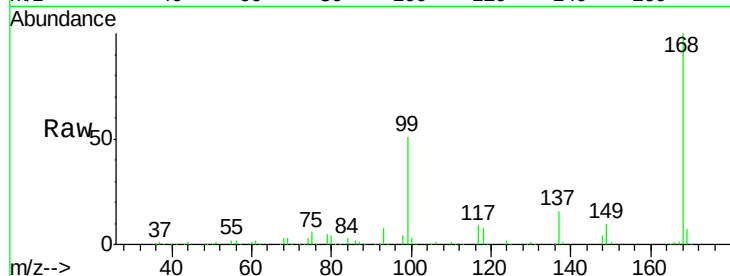
RE120D2-071118DL

Tot Ion:168 Resp: 270048

Ion Ratio Lower Upper

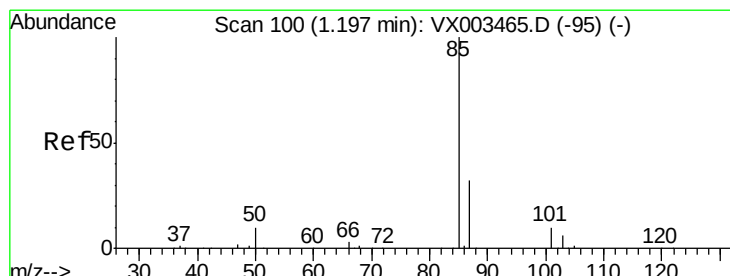
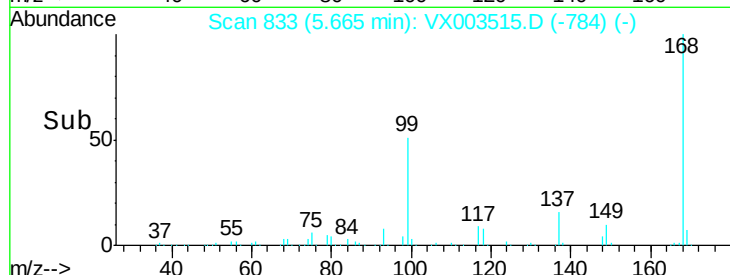
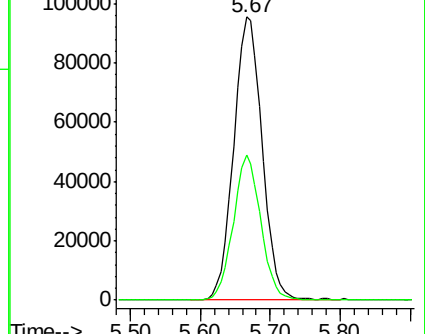
168 100

99 51.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003515.D

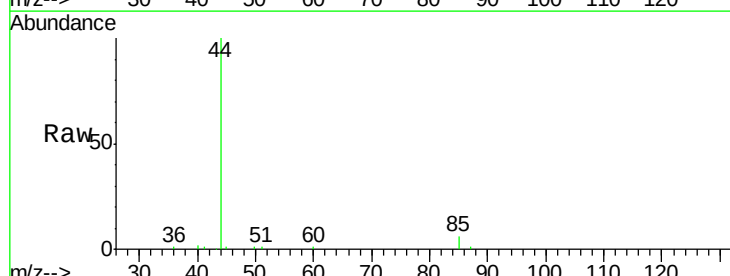
Acq: 20 Jul 2018 17:52

Tgt Ion: 85 Resp: 660

Ion Ratio Lower Upper

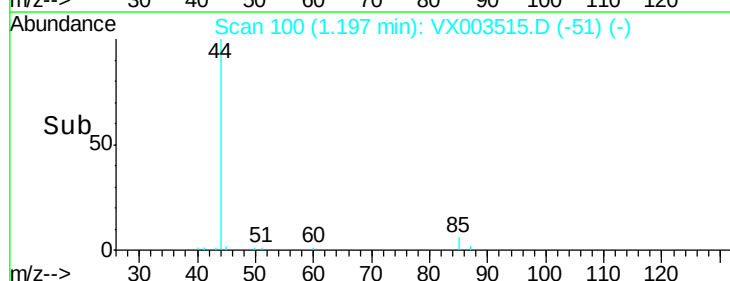
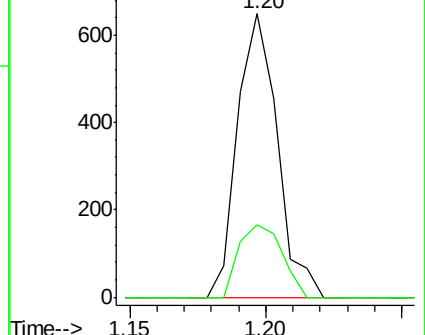
85 100

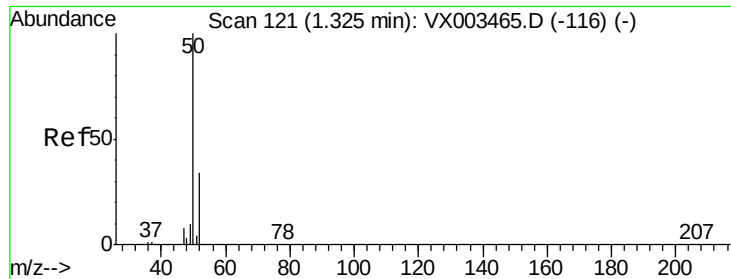
87 25.6 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

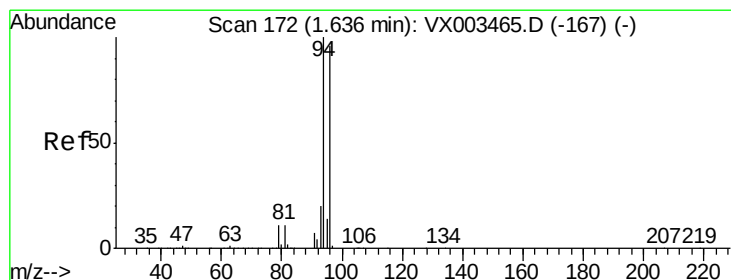
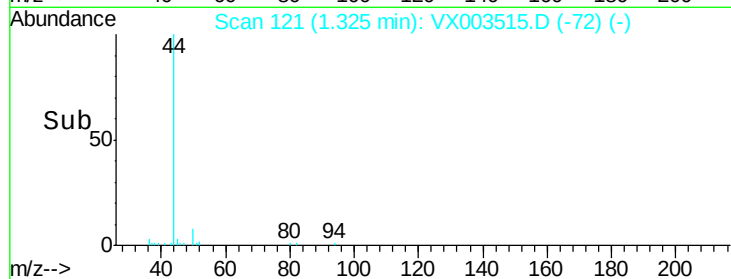
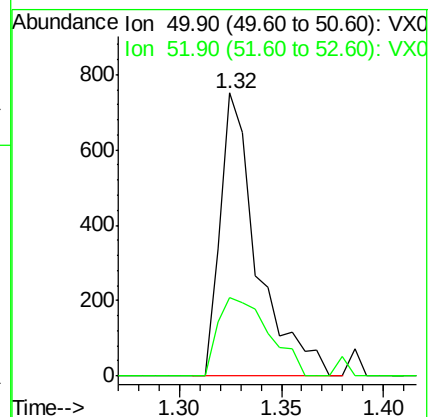
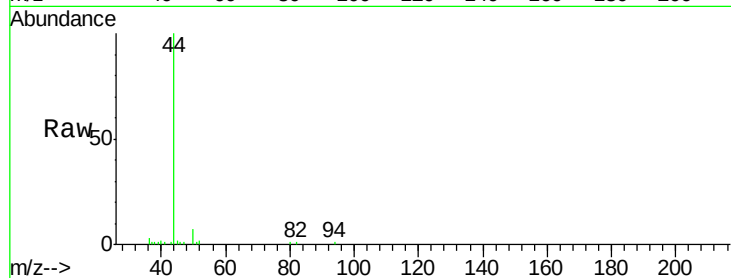
RE120D2-071118DL

Tot Ion: 50 Resp: 949

Ion Ratio Lower Upper

50 100

52 27.6 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003515.D

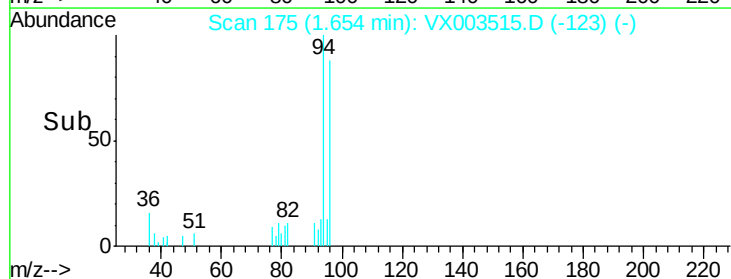
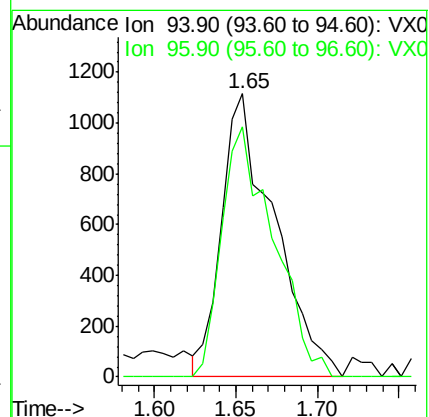
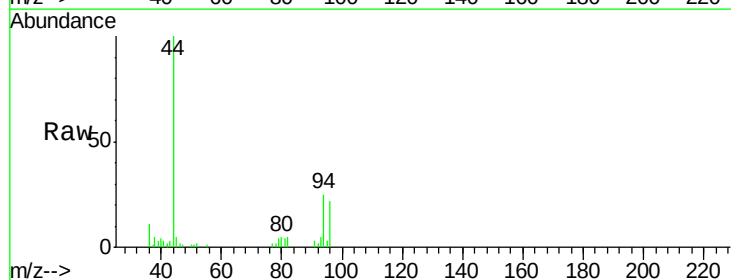
Acq: 20 Jul 2018 17:52

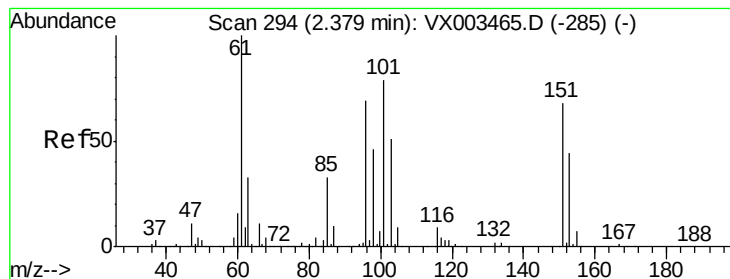
Tgt Ion: 94 Resp: 2503

Ion Ratio Lower Upper

94 100

96 88.3 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.65 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-071118DL

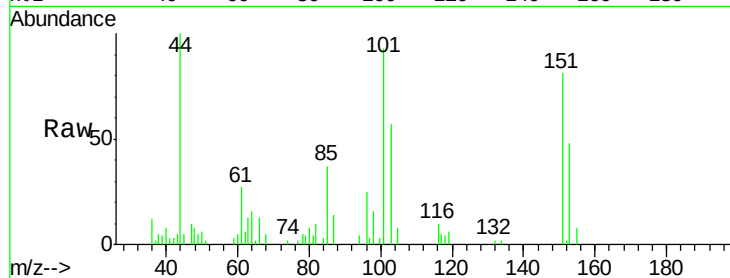
Tot Ion:101 Resp: 4936

Ion Ratio Lower Upper

101 100

85 41.5 36.0 54.0

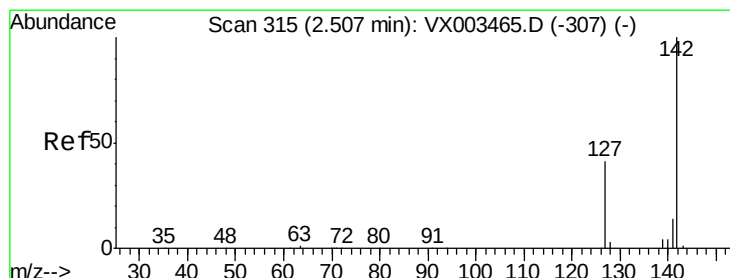
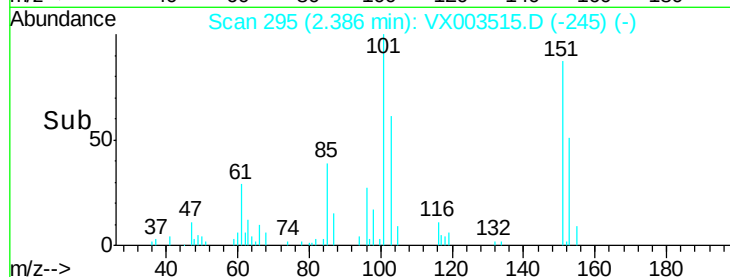
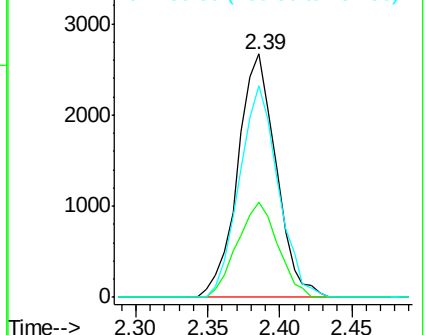
151 88.1 70.9 106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 1.14 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

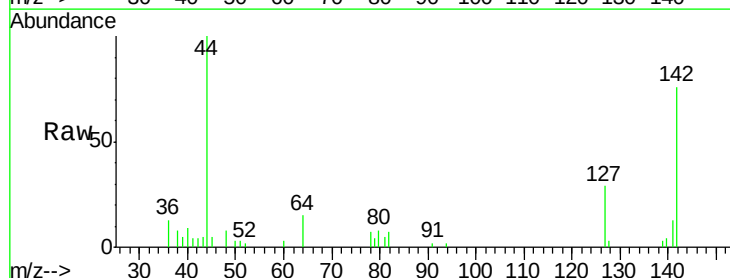
Tgt Ion:142 Resp: 4110

Ion Ratio Lower Upper

142 100

127 39.5 36.6 55.0

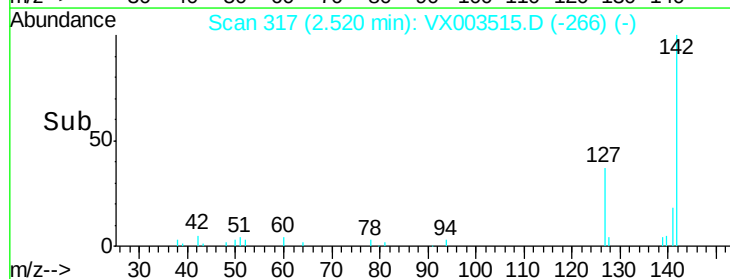
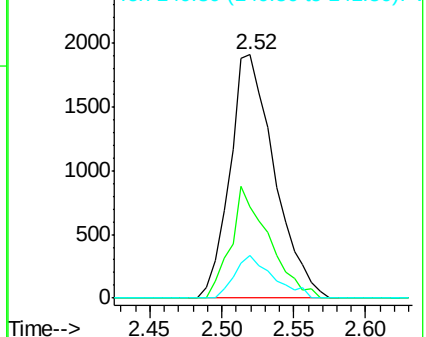
141 15.3 11.3 16.9

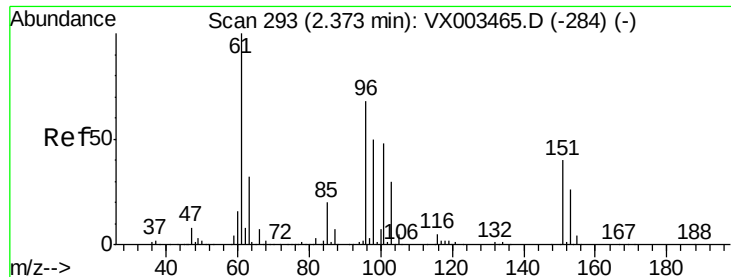


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

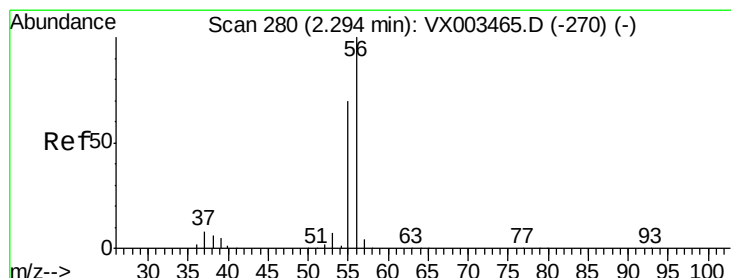
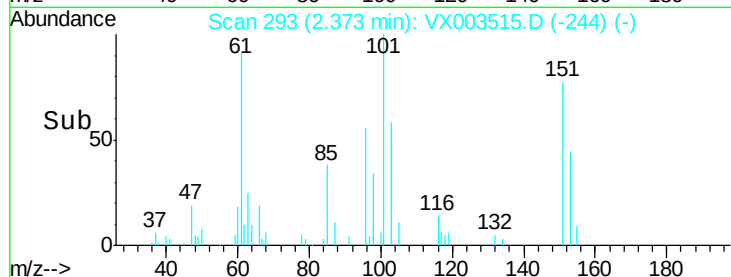
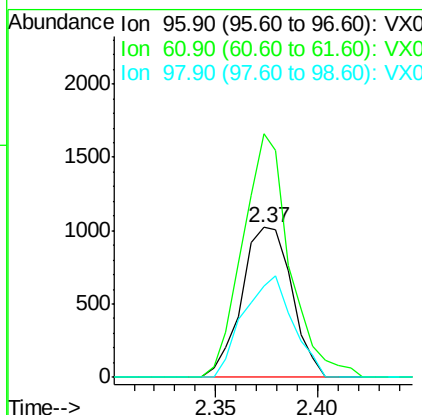
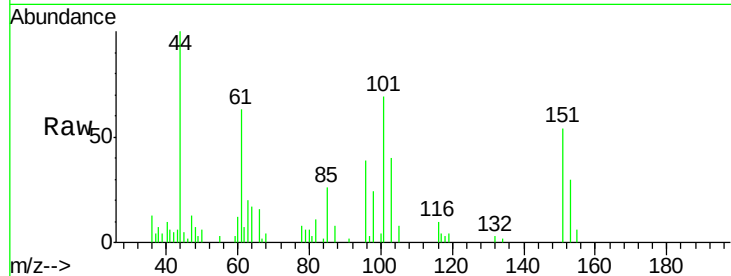




#12  
 1,1-Dichloroethene  
 Concen: 0.63 ug/l  
 RT: 2.37 min Scan# 293  
 Delta R.T. 0.00 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

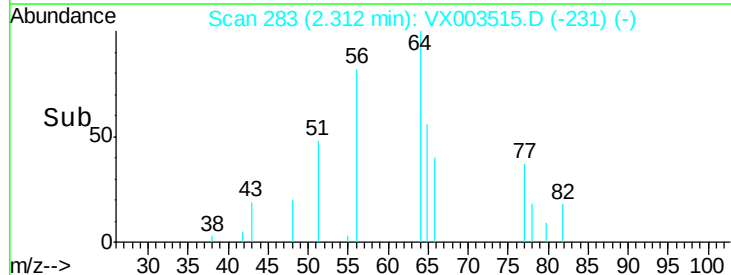
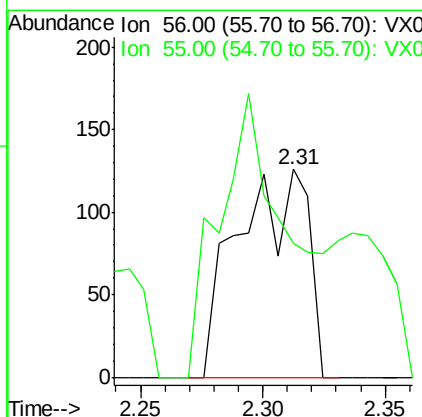
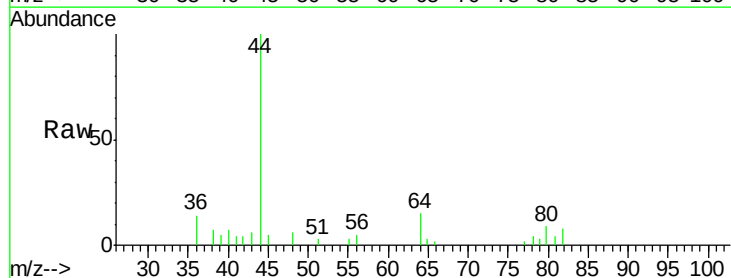
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-071118DL

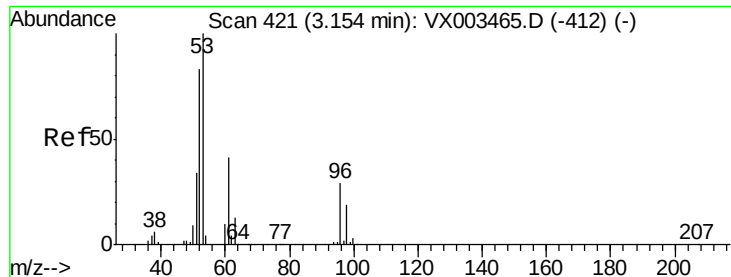
Tot Ion: 96 Resp: 1749  
 Ion Ratio Lower Upper  
 96 100  
 61 162.3 137.9 206.9  
 98 61.2 51.6 77.4



#13  
 Acrolein  
 Concen: 0.88 ug/l  
 RT: 2.31 min Scan# 283  
 Delta R.T. 0.02 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

Tgt Ion: 56 Resp: 251  
 Ion Ratio Lower Upper  
 56 100  
 55 133.5 57.0 85.4#





#15

Acrylonitrile

Concen: 0.71 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-071118DL

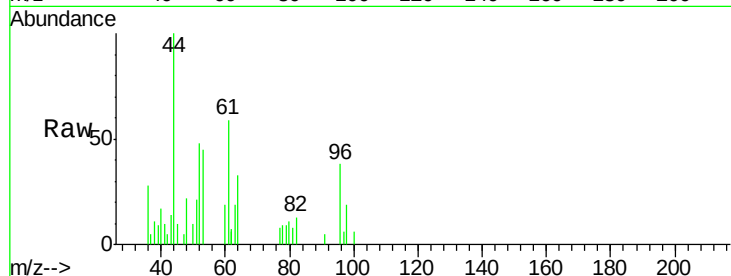
Tot Ion: 53 Resp: 1138

Ion Ratio Lower Upper

53 100

52 92.6 66.7 100.1

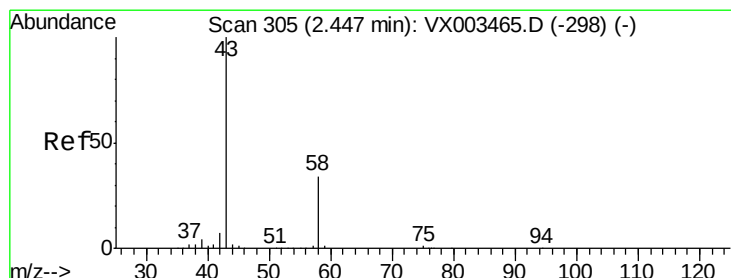
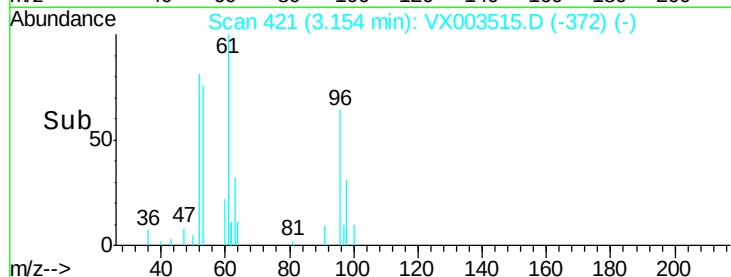
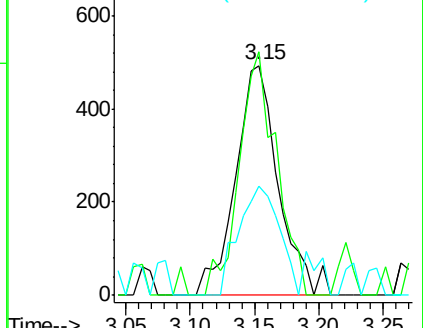
51 45.2 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.13 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003515.D

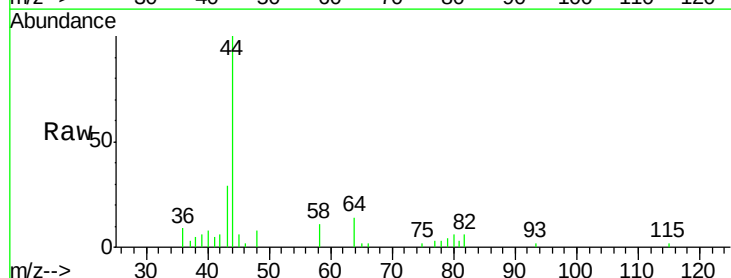
Acq: 20 Jul 2018 17:52

Tgt Ion: 43 Resp: 1361

Ion Ratio Lower Upper

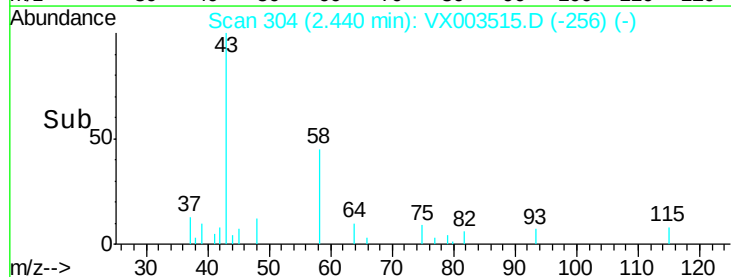
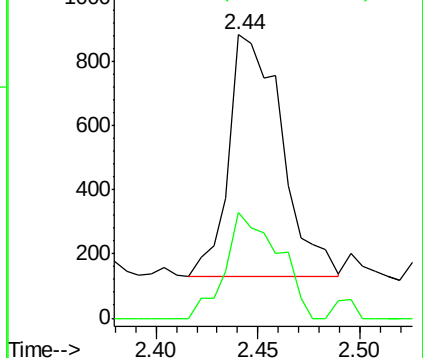
43 100

58 43.9 22.1 33.1#

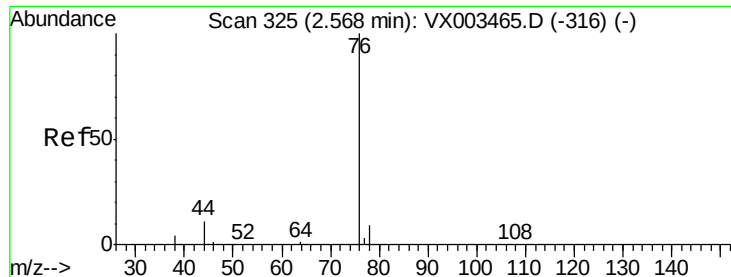


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0







#17

Carbon Disulfide

Concen: 0.81 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

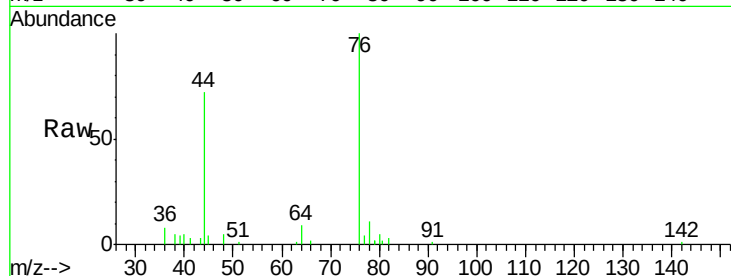
RE120D2-071118DL

Tot Ion: 76 Resp: 6037

Ion Ratio Lower Upper

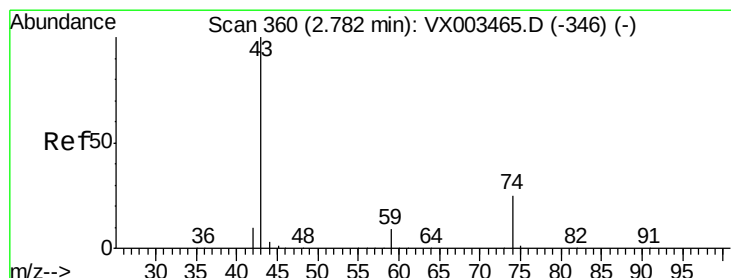
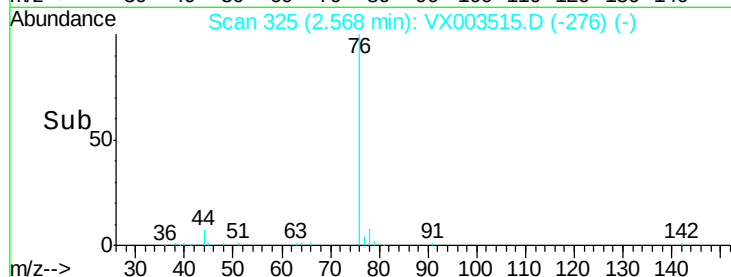
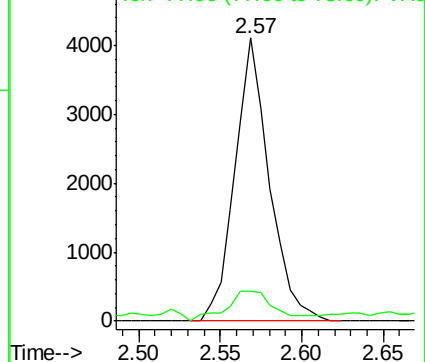
76 100

78 10.8 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.31 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX003515.D

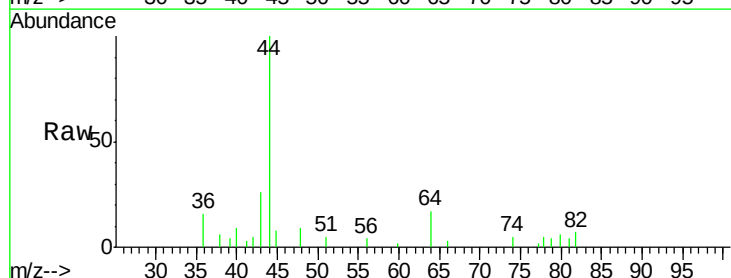
Acq: 20 Jul 2018 17:52

Tgt Ion: 43 Resp: 1173

Ion Ratio Lower Upper

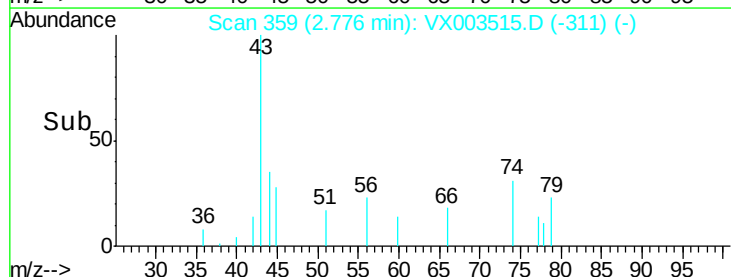
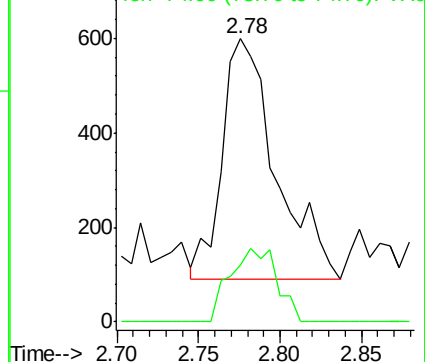
43 100

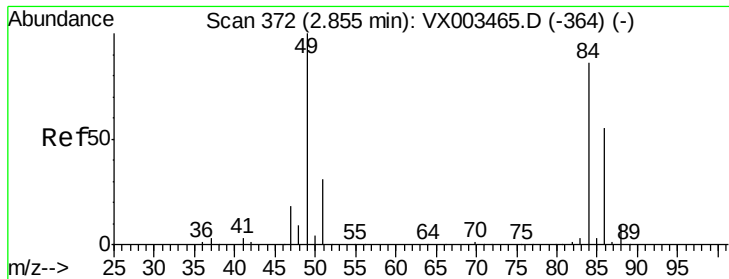
74 26.7 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

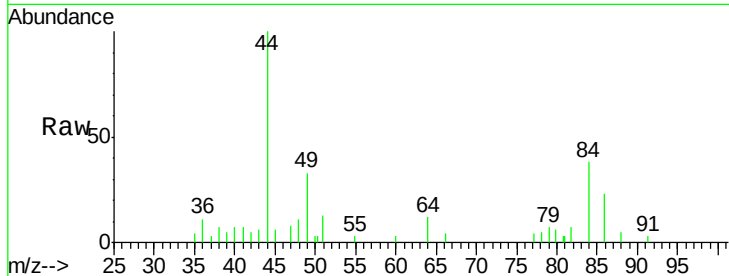




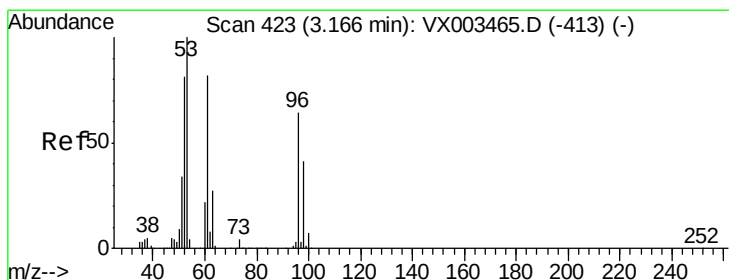
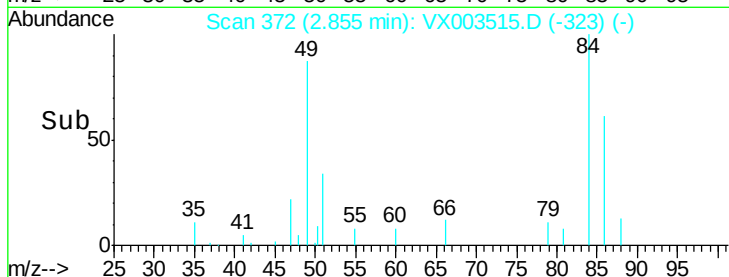
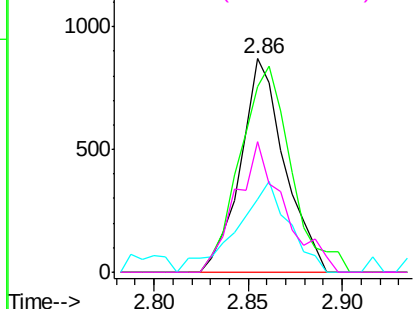
#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 2.86 min Scan# 372  
Delta R.T. 0.00 min  
Lab File: VX003515.D  
Acq: 20 Jul 2018 17:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-071118DL

Tot Ion: 84 Resp: 1409  
Ion Ratio Lower Upper  
84 100  
49 86.8 107.8 161.6#  
51 34.3 32.8 49.2  
86 61.0 52.5 78.7

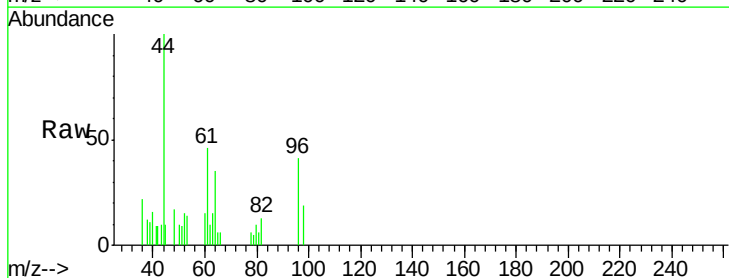


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

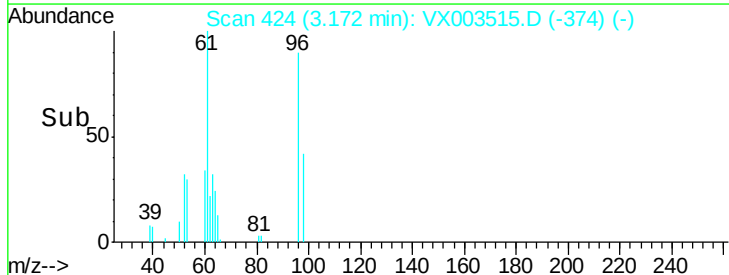
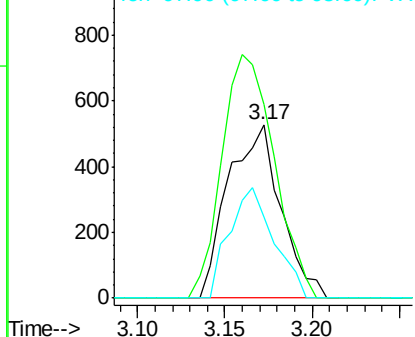


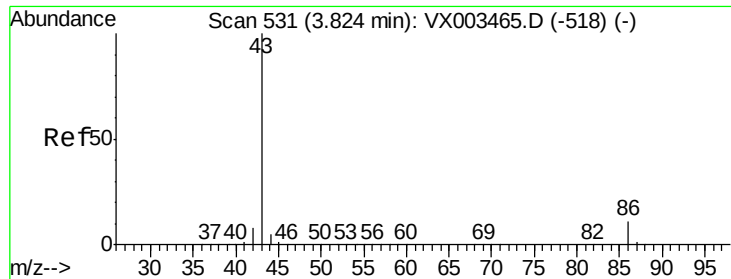
#21  
trans-1,2-Dichloroethene  
Concen: 0.36 ug/l  
RT: 3.17 min Scan# 424  
Delta R.T. 0.01 min  
Lab File: VX003515.D  
Acq: 20 Jul 2018 17:52

Tgt Ion: 96 Resp: 1104  
Ion Ratio Lower Upper  
96 100  
61 111.6 117.0 175.4#  
98 46.5 52.4 78.6#



Abundance Ion 95.90 (95.60 to 96.60): VX0  
Ion 60.90 (60.60 to 61.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0





#23

Vinyl Acetate

Concen: 0.24 ug/l

RT: 3.82 min Scan# 531

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleID :

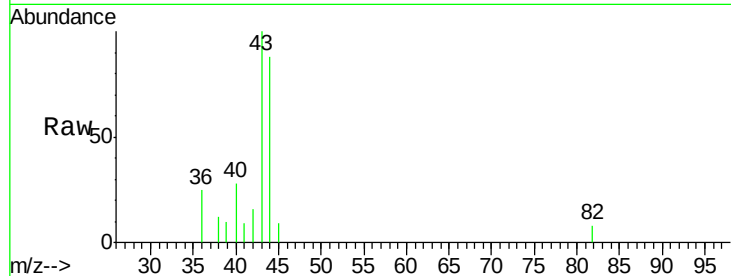
RE120D2-071118DL

Tot Ion: 43 Resp: 1853

Ion Ratio Lower Upper

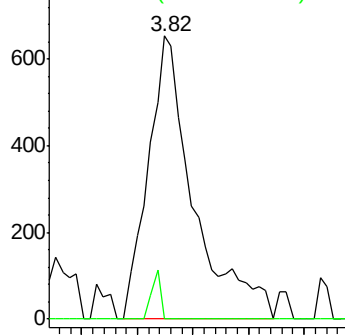
43 100

86 0.0 7.4 11.0#

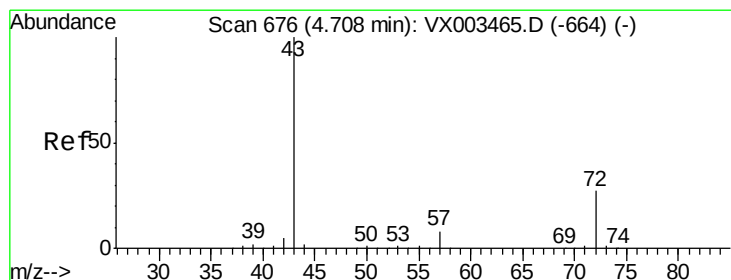
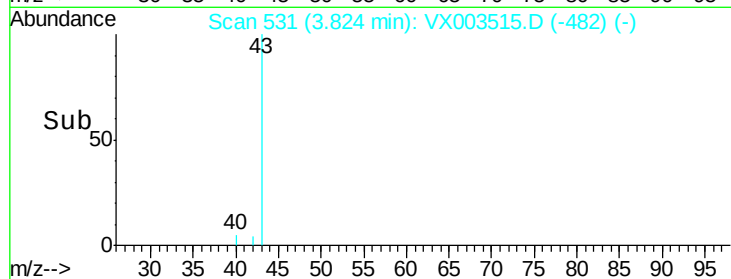


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



Time-->



#25

2-Butanone

Concen: 0.42 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.02 min

Lab File: VX003515.D

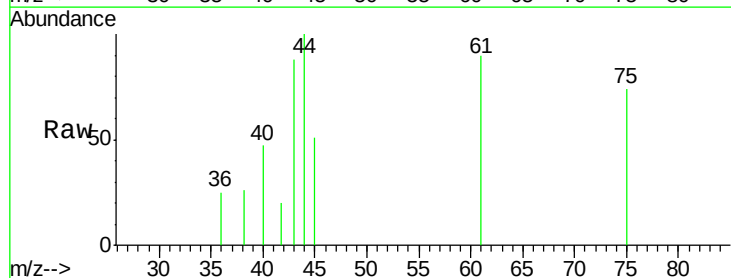
Acq: 20 Jul 2018 17:52

Tgt Ion: 43 Resp: 850

Ion Ratio Lower Upper

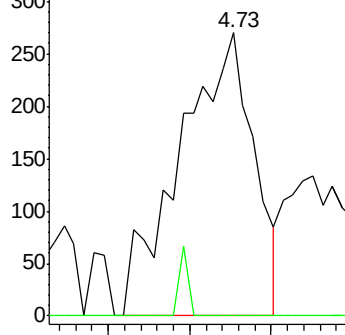
43 100

72 0.0 18.5 27.7#

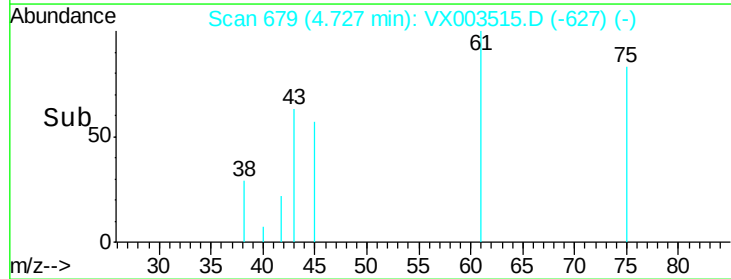


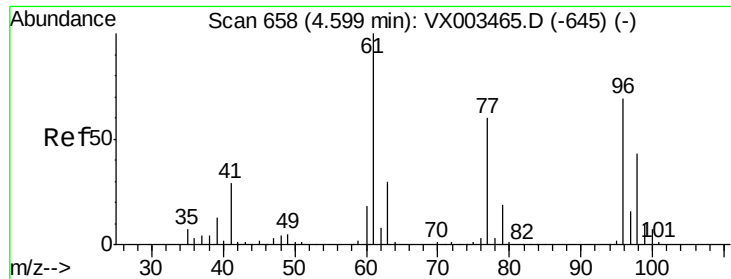
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->





#27

cis-1,2-Dichloroethene

Concen: 0.53 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-071118DL

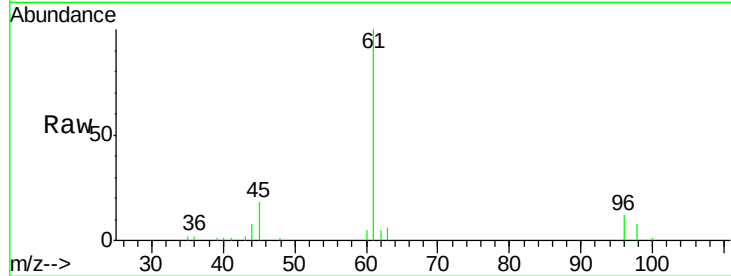
Tot Ion: 96 Resp: 1797

Ion Ratio Lower Upper

96 100

61 1351.4 0.0 330.2#

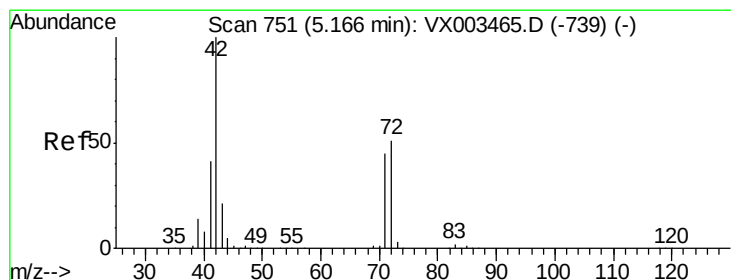
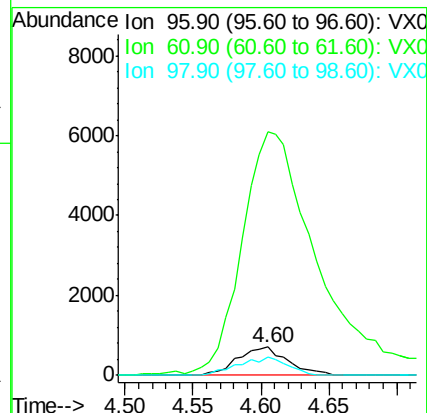
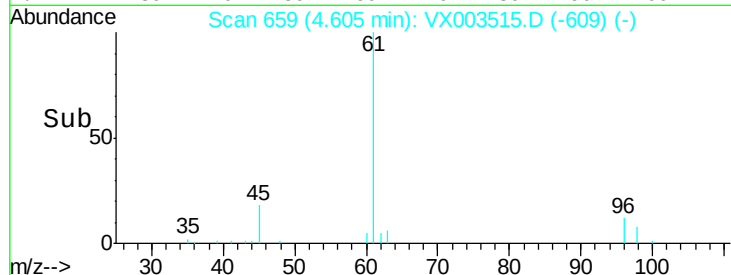
98 63.6 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.82 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

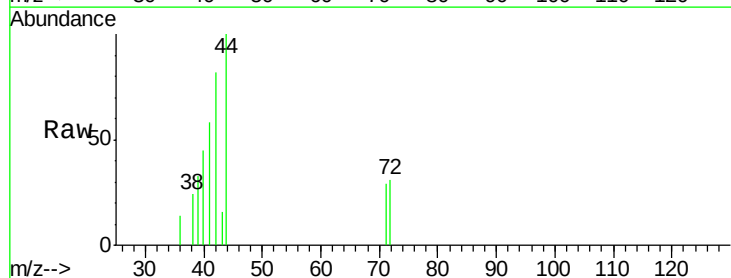
Tgt Ion: 42 Resp: 1094

Ion Ratio Lower Upper

42 100

72 37.6 32.0 48.0

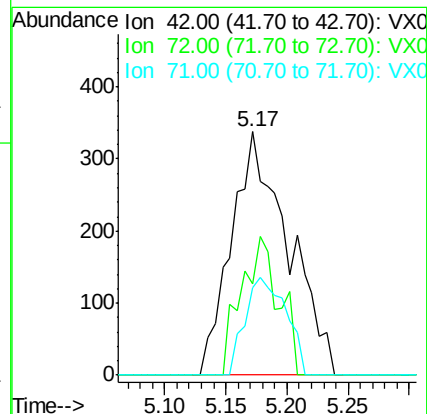
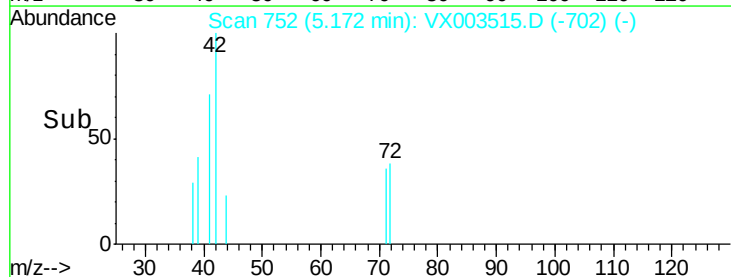
71 28.7 30.1 45.1#

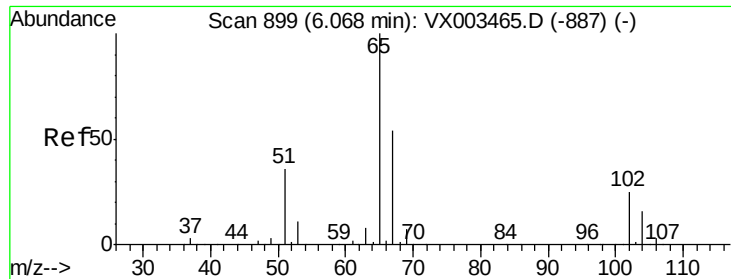


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

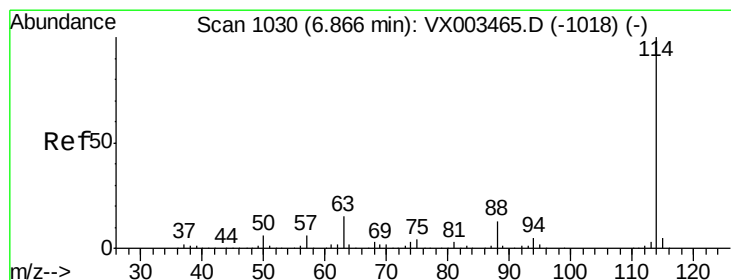
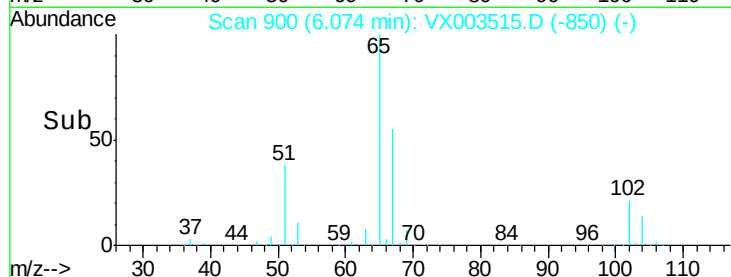
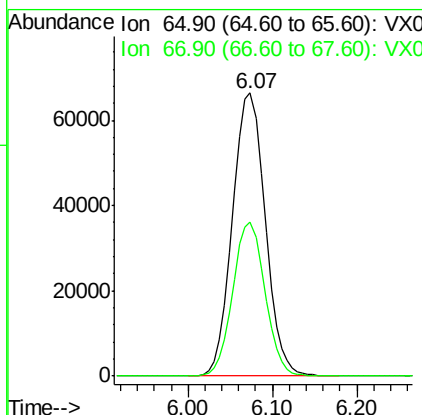
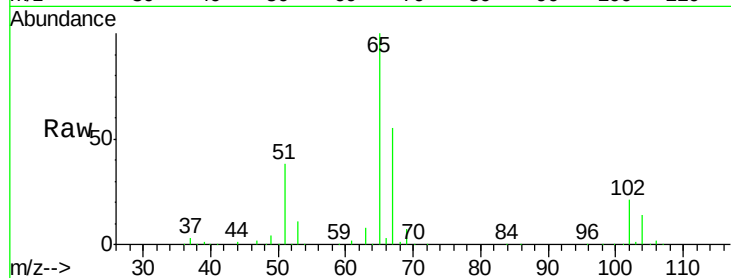




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.83 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.01 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

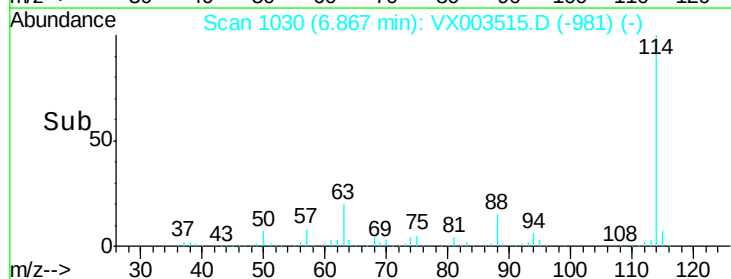
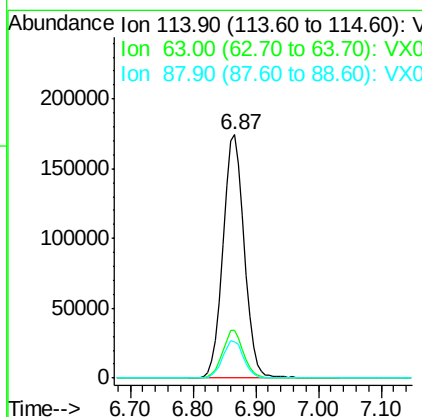
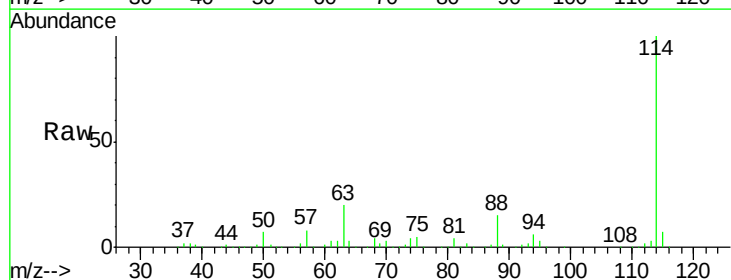
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-071118DL

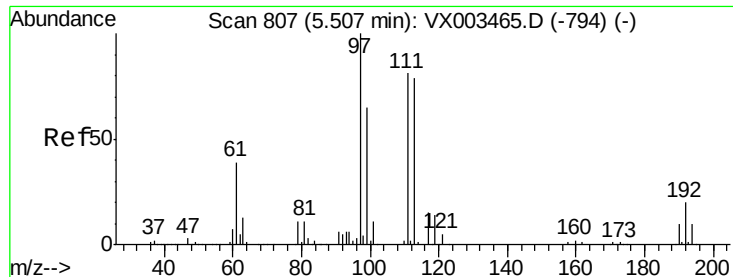
Tot Ion: 65 Resp: 175269  
 Ion Ratio Lower Upper  
 65 100  
 67 53.5 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

Tgt Ion: 114 Resp: 408557  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 41.4  
 88 14.7 0.0 30.0

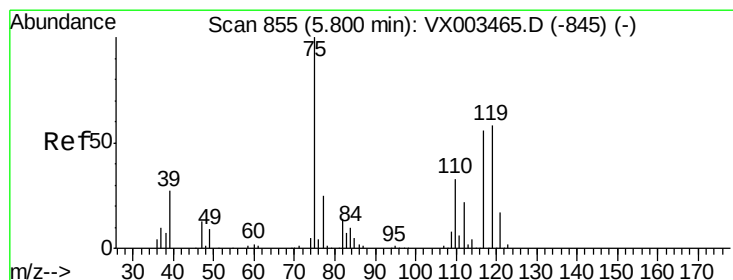
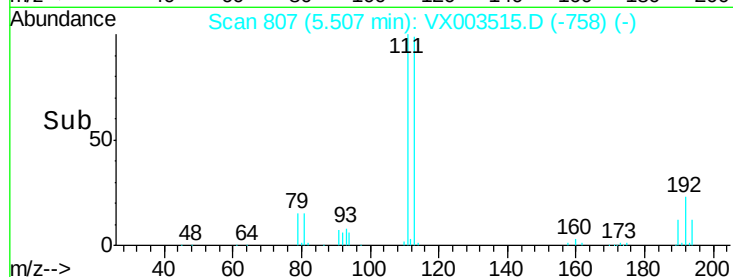
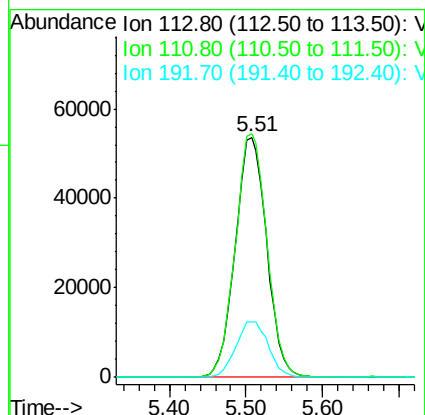
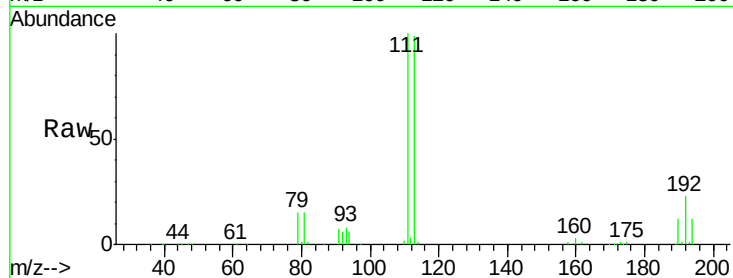




#35  
 Dibromofluoromethane  
 Concen: 49.14 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

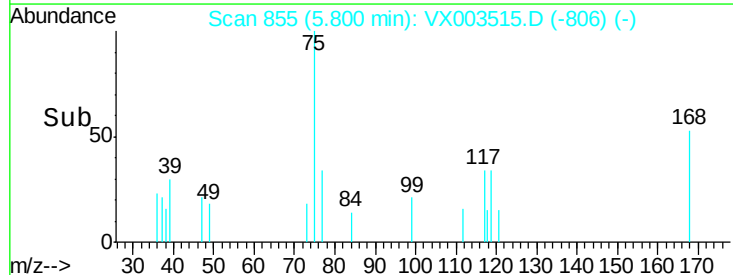
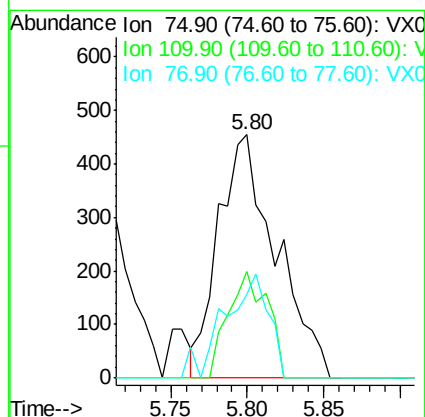
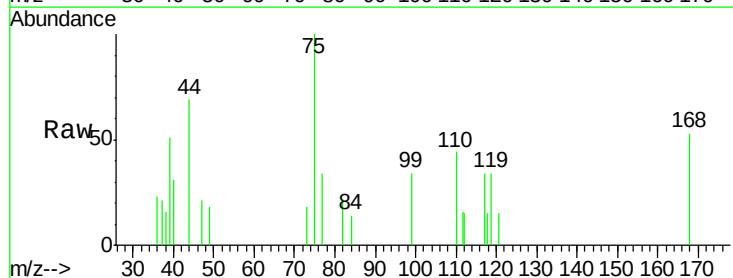
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-071118DL

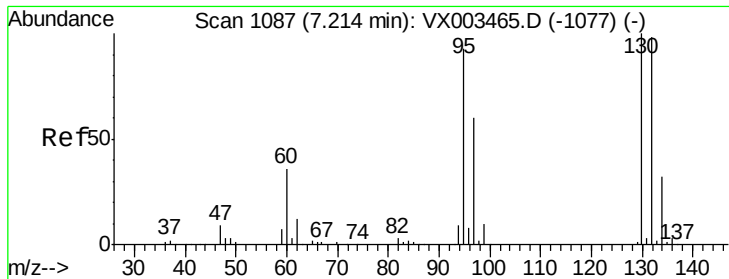
Tot Ion:113 Resp: 152910  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 81.4 122.0  
 192 24.0 19.1 28.7



#36  
 1,1-Dichloropropene  
 Concen: 0.27 ug/l  
 RT: 5.80 min Scan# 855  
 Delta R.T. 0.00 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

Tgt Ion: 75 Resp: 1192  
 Ion Ratio Lower Upper  
 75 100  
 110 29.7 18.1 54.4  
 77 32.7 24.3 36.5





#44

Trichloroethene

Concen: 60.26 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

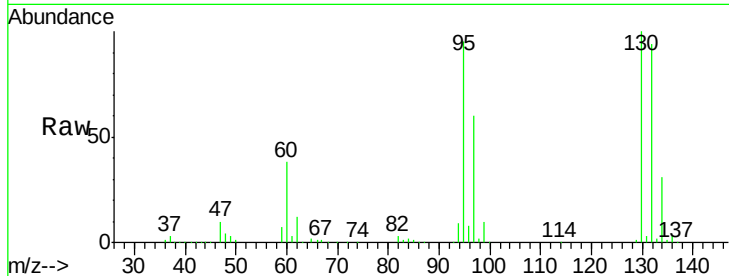
RE120D2-071118DL

Tot Ion:130 Resp: 239353

Ion Ratio Lower Upper

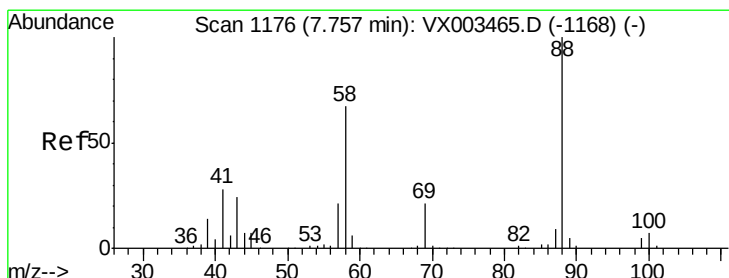
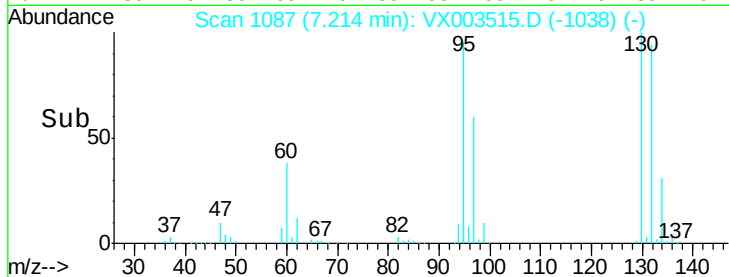
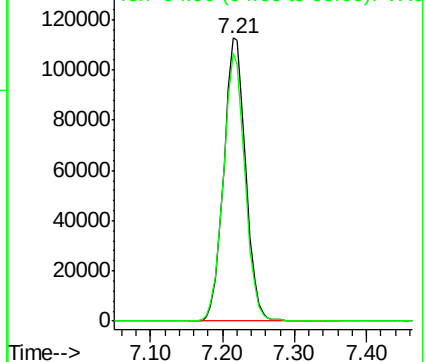
130 100

95 94.6 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 2.10 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

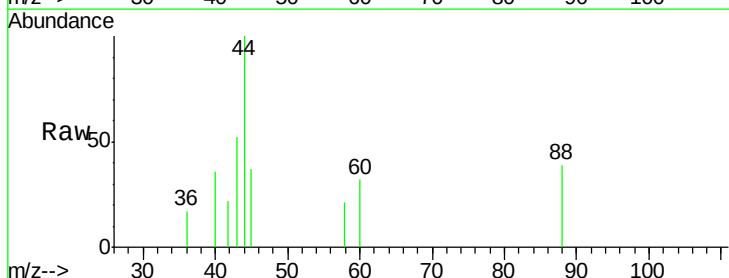
Tgt Ion: 88 Resp: 159

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

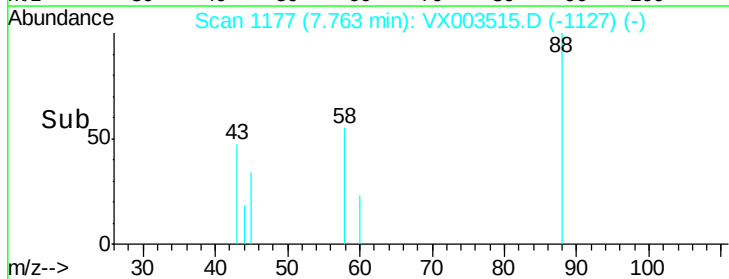
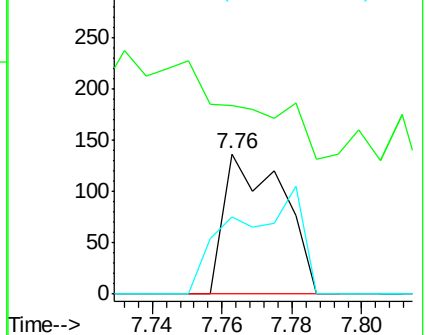
58 84.9 57.1 85.7

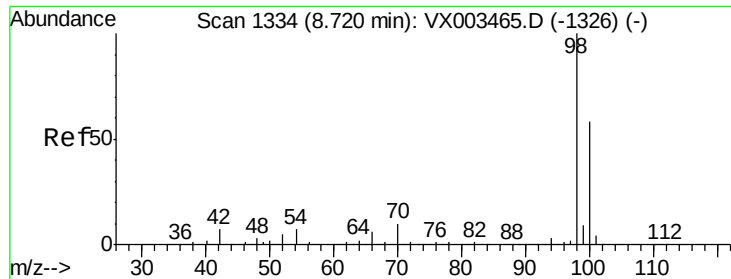


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

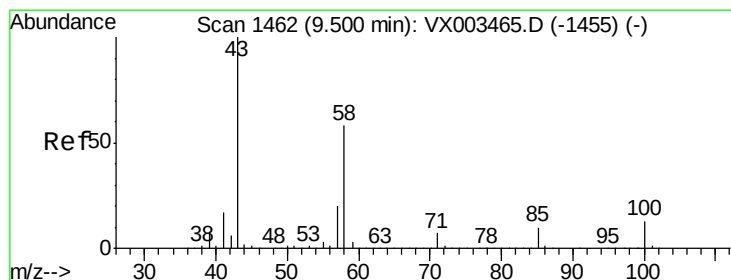
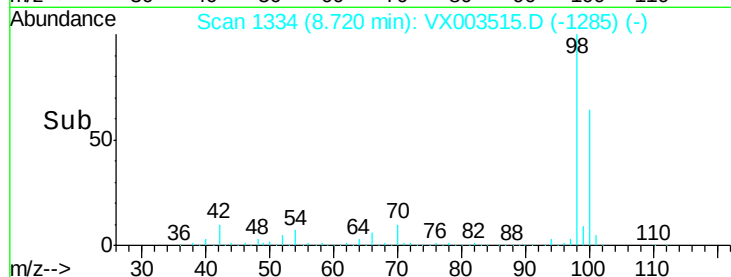
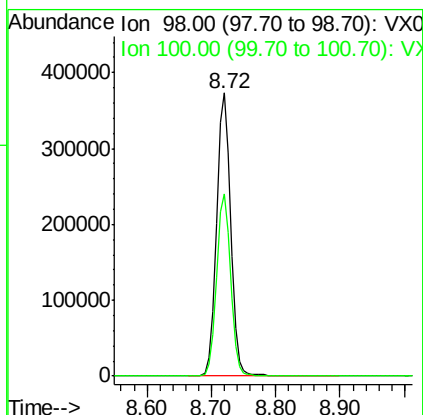
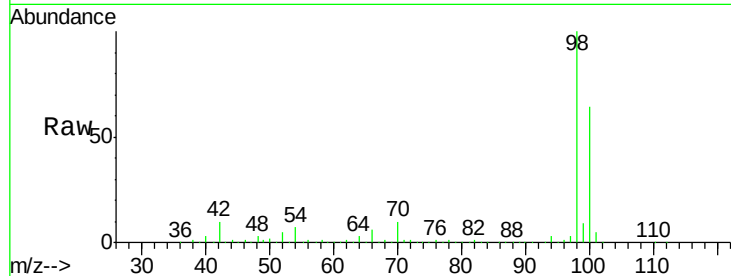




#50  
Toluene-d8  
Concen: 49.64 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX003515.D  
Acq: 20 Jul 2018 17:52

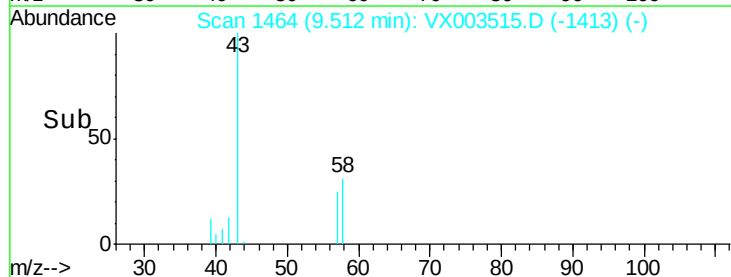
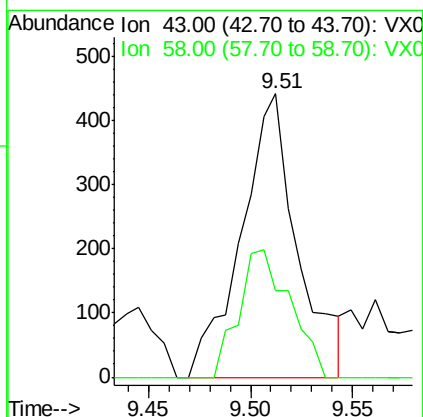
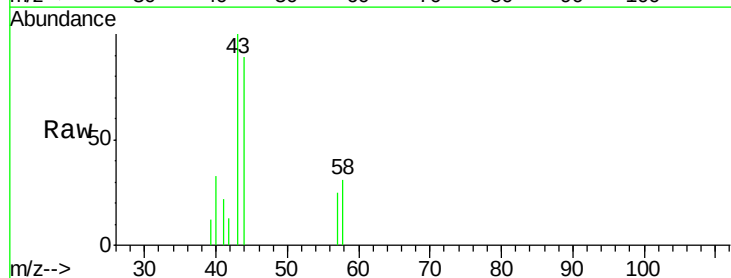
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-071118DL

Tot Ion: 98 Resp: 580605  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.9 76.3

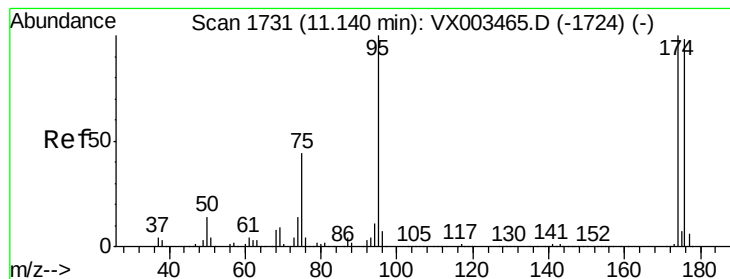


#59  
2-Hexanone  
Concen: 0.27 ug/l  
RT: 9.51 min Scan# 1464  
Delta R.T. 0.01 min  
Lab File: VX003515.D  
Acq: 20 Jul 2018 17:52

Tgt Ion: 43 Resp: 846  
Ion Ratio Lower Upper  
43 100  
58 40.8 24.6 73.6







#62

4-Bromofluorobenzene

Concen: 46.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-071118DL

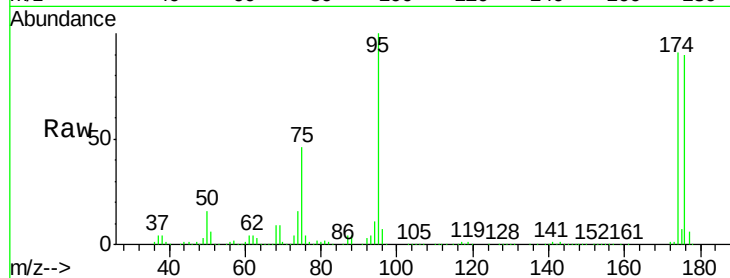
Tot Ion: 95 Resp: 198464

Ion Ratio Lower Upper

95 100

174 94.1 0.0 187.4

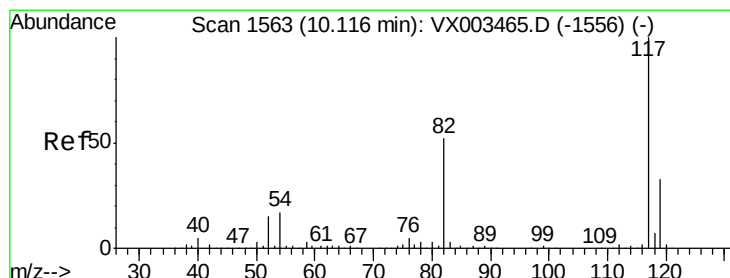
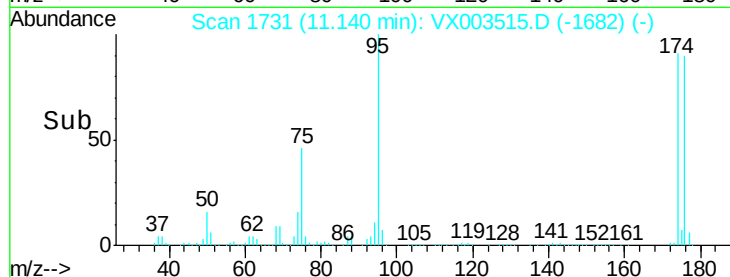
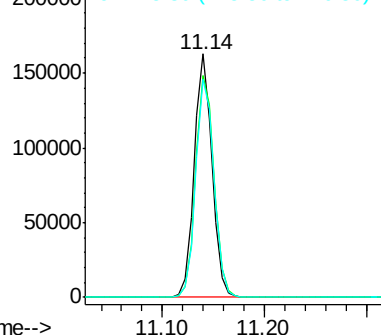
176 91.4 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

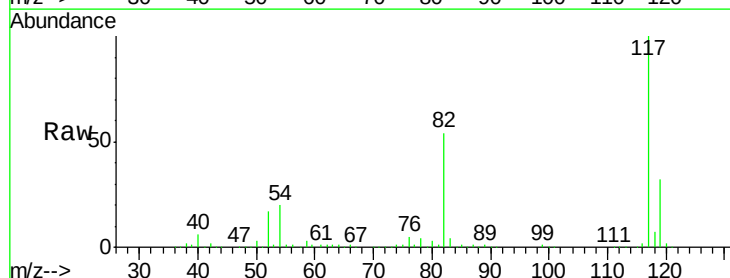
Tgt Ion: 117 Resp: 385400

Ion Ratio Lower Upper

117 100

82 54.2 45.0 67.4

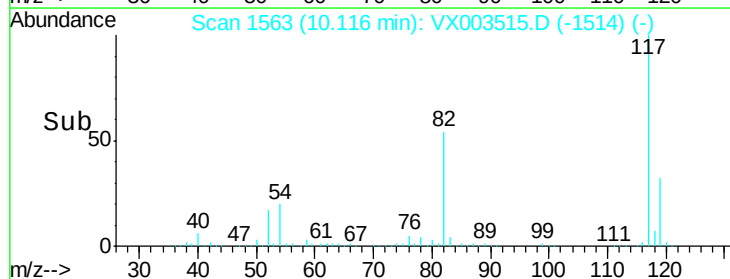
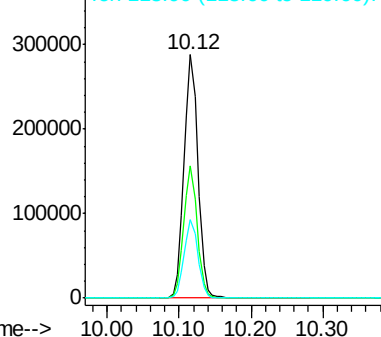
119 32.4 25.8 38.6

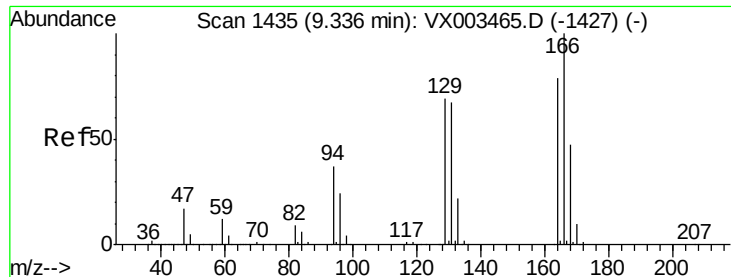


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

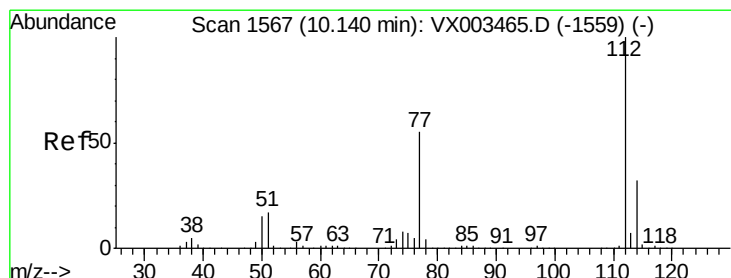
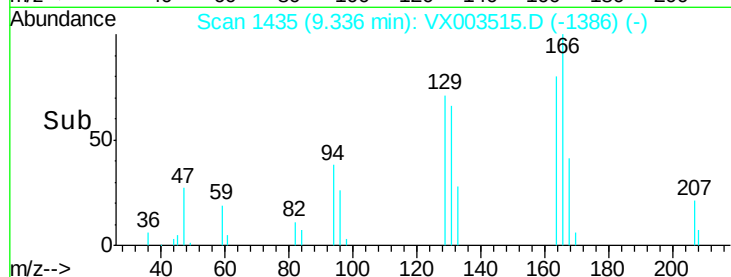
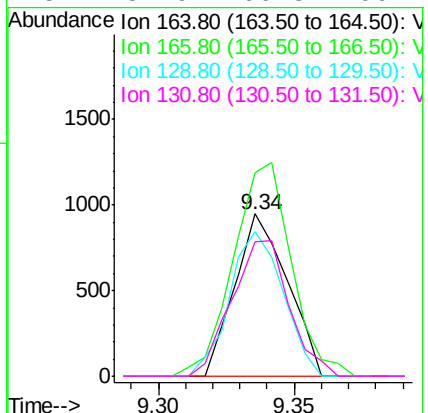
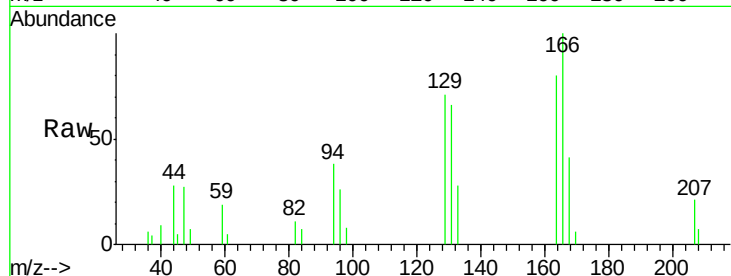




#64  
Tetrachloroethene  
Concen: 0.27 ug/l  
RT: 9.34 min Scan# 1435  
Delta R.T. 0.00 min  
Lab File: VX003515.D  
Acq: 20 Jul 2018 17:52

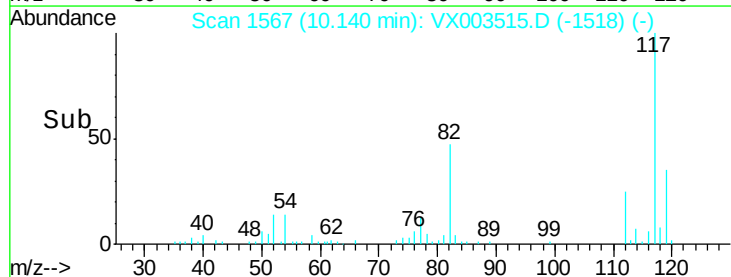
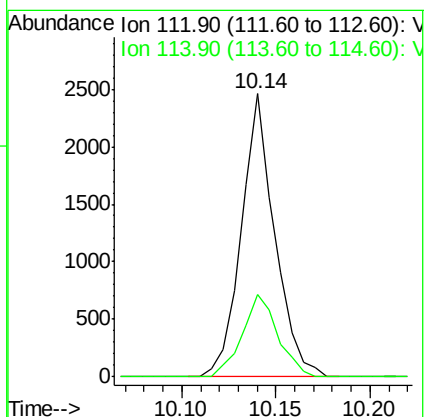
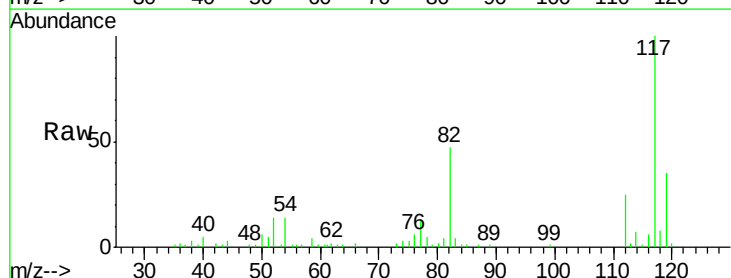
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-071118DL

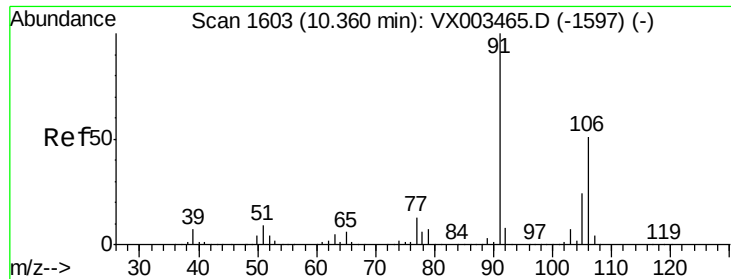
Tot Ion:164 Resp: 1268  
Ion Ratio Lower Upper  
164 100  
166 120.3 102.9 154.3  
129 88.9 68.6 102.8  
131 82.9 66.8 100.2



#65  
Chlorobenzene  
Concen: 0.30 ug/l  
RT: 10.14 min Scan# 1567  
Delta R.T. 0.00 min  
Lab File: VX003515.D  
Acq: 20 Jul 2018 17:52

Tgt Ion:112 Resp: 3010  
Ion Ratio Lower Upper  
112 100  
114 29.1 25.3 37.9

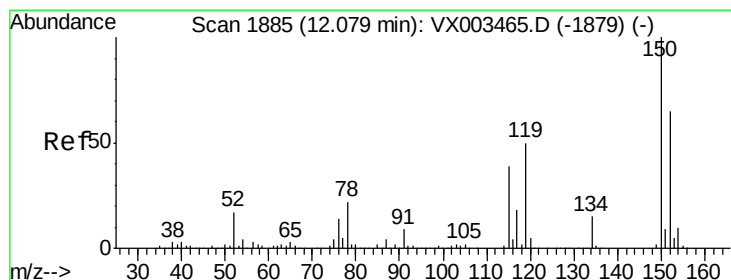
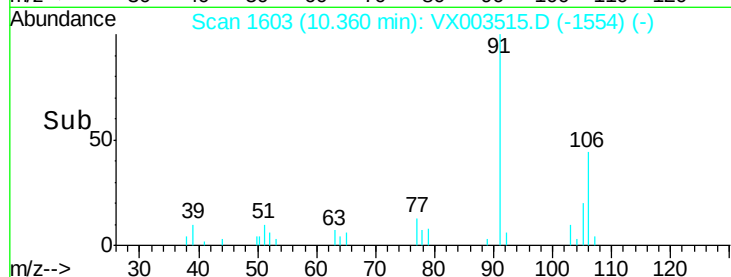
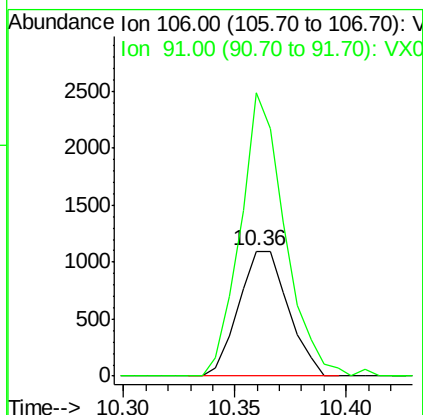
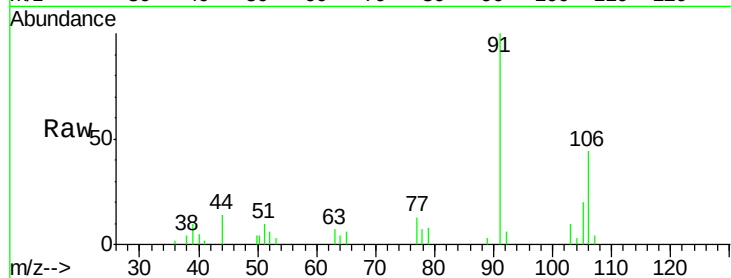




#68  
m/p-Xvlenes  
Concen: 0.27 ug/l  
RT: 10.36 min Scan# 1603  
Delta R.T. 0.00 min  
Lab File: VX003515.D  
Acq: 20 Jul 2018 17:52

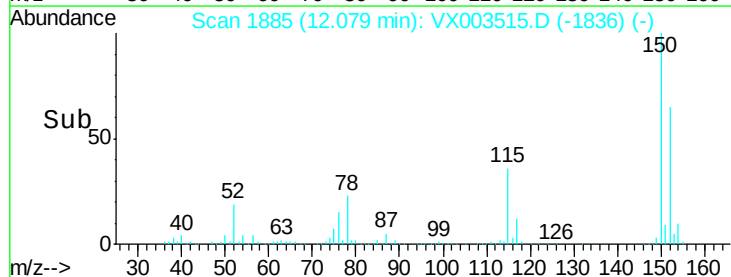
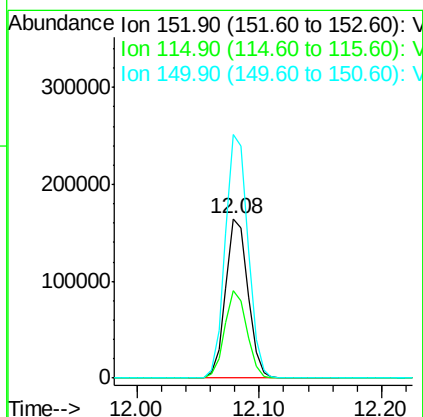
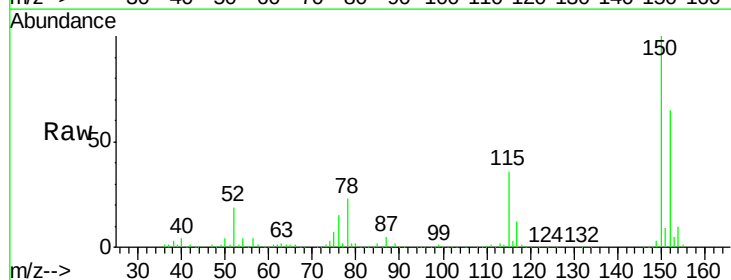
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-071118DL

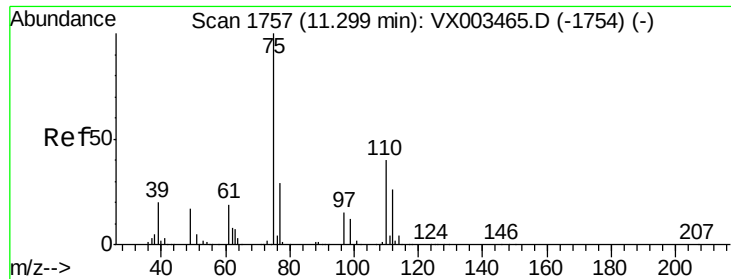
Tot Ion:106 Resp: 1693  
Ion Ratio Lower Upper  
106 100  
91 205.1 163.4 245.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1885  
Delta R.T. 0.00 min  
Lab File: VX003515.D  
Acq: 20 Jul 2018 17:52

Tgt Ion:152 Resp: 207283  
Ion Ratio Lower Upper  
152 100  
115 54.3 40.1 120.2  
150 156.0 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 25.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

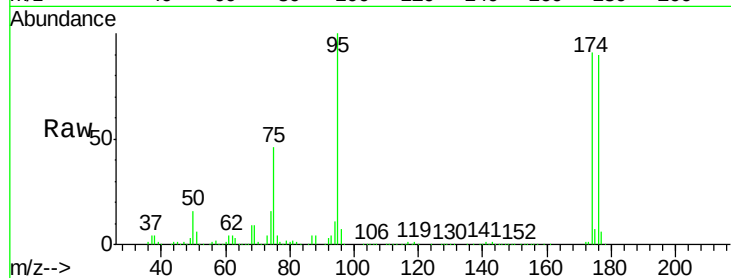
RE120D2-071118DL

Tot Ion: 75 Resp: 94038

Ion Ratio Lower Upper

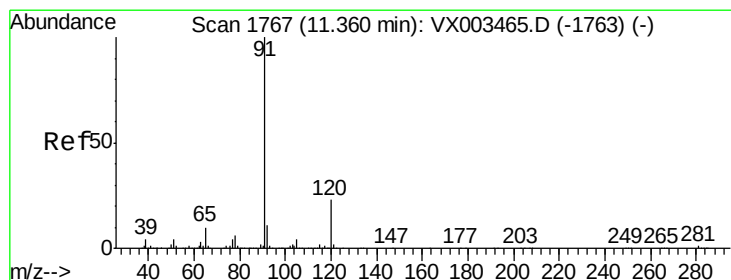
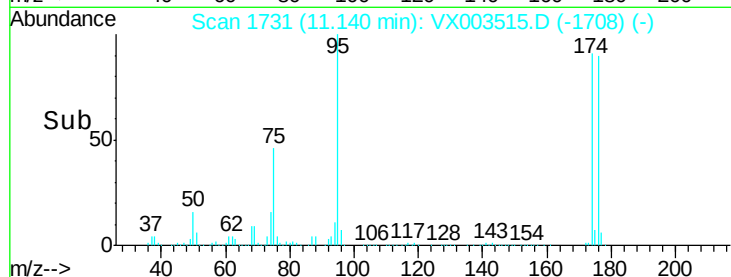
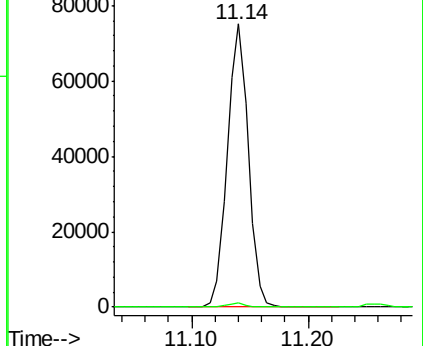
75 100

77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#78

n-propylbenzene

Concen: 0.22 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.01 min

Lab File: VX003515.D

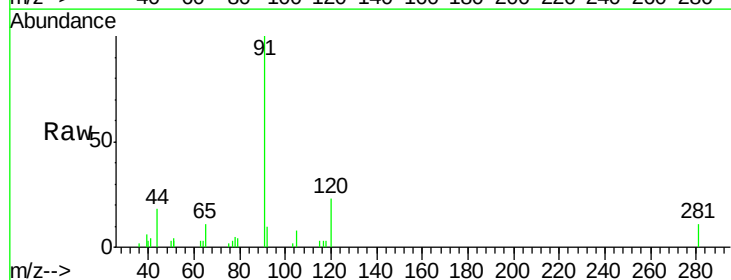
Acq: 20 Jul 2018 17:52

Tgt Ion: 91 Resp: 3464

Ion Ratio Lower Upper

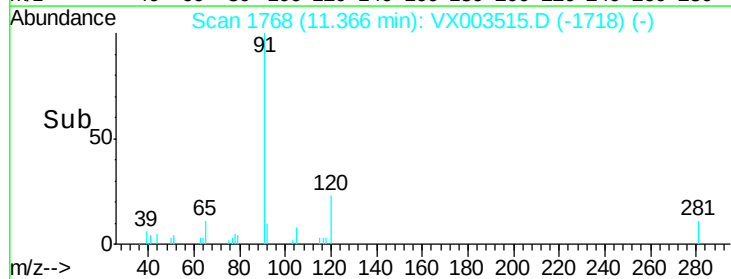
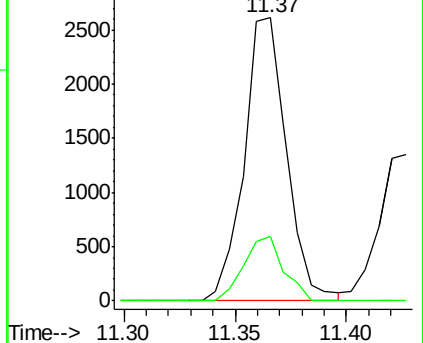
91 100

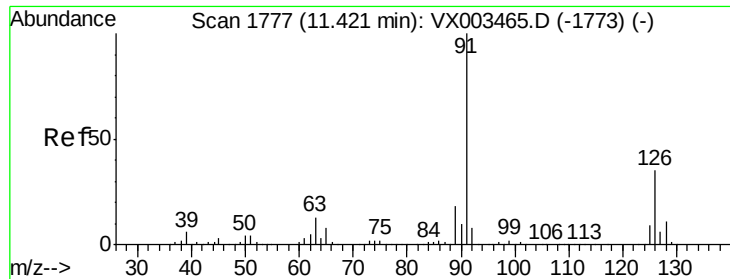
120 21.2 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

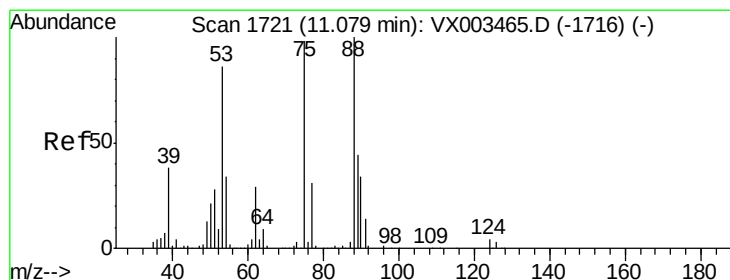
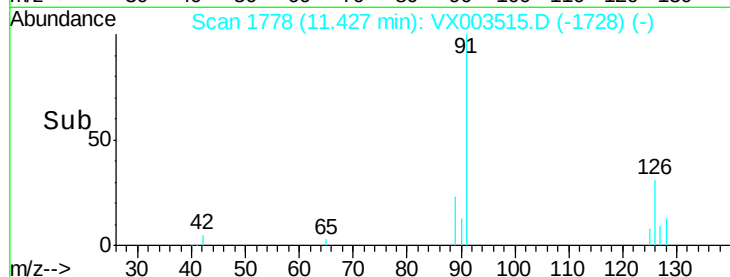
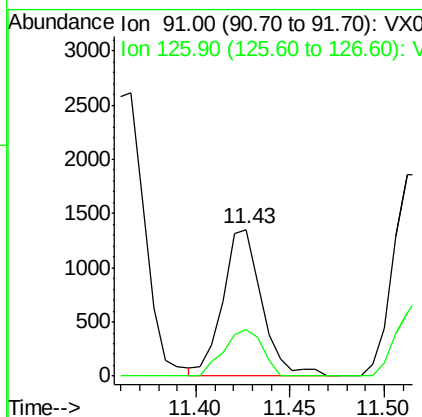
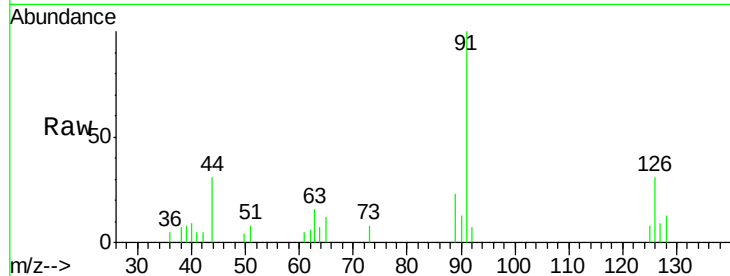




#79  
 2-Chlorotoluene  
 Concen: 0.20 ug/l  
 RT: 11.43 min Scan# 1778  
 Delta R.T. 0.01 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

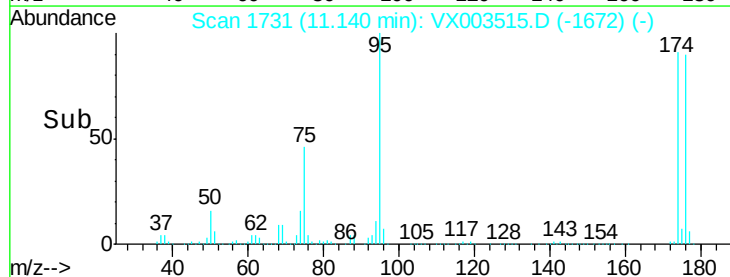
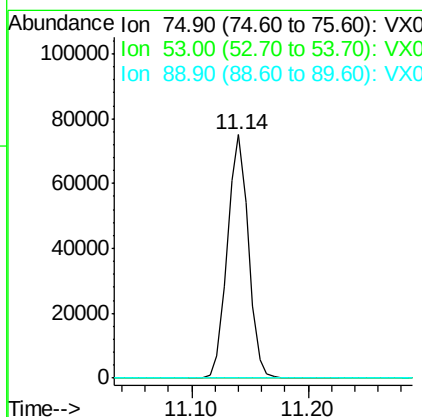
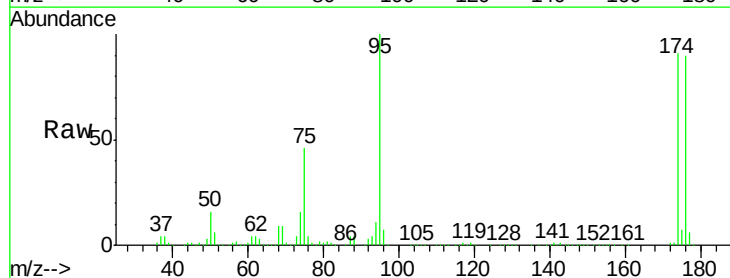
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-071118DL

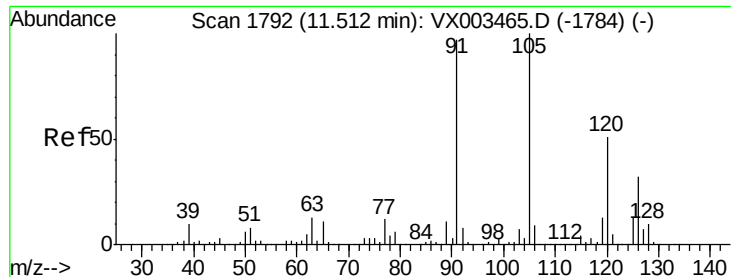
Tot Ion: 91 Resp: 1956  
 Ion Ratio Lower Upper  
 91 100  
 126 31.0 17.7 53.1



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 70.69 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

Tgt Ion: 75 Resp: 94038  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 86.8 130.2#  
 89 0.0 38.2 57.2#





#82

4-Chlorotoluene

Concen: 0.24 ug/l

RT: 11.52 min Scan# 1793

Delta R.T. 0.01 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

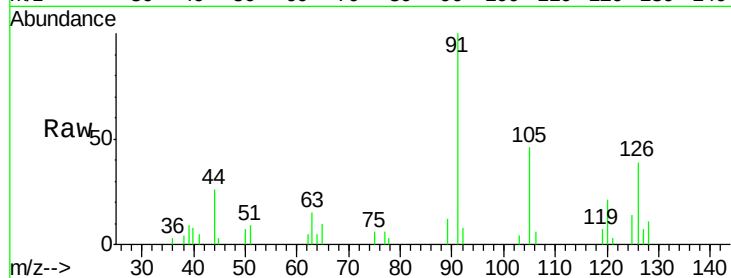
RE120D2-071118DL

Tot Ion: 91 Resp: 2698

Ion Ratio Lower Upper

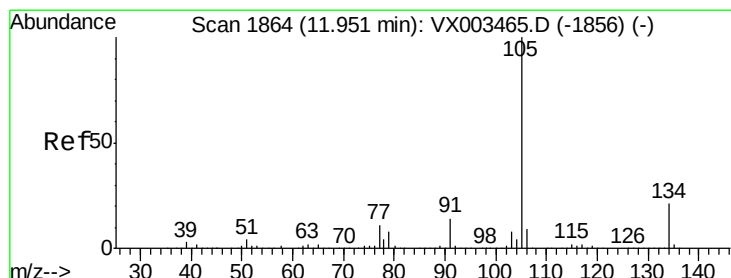
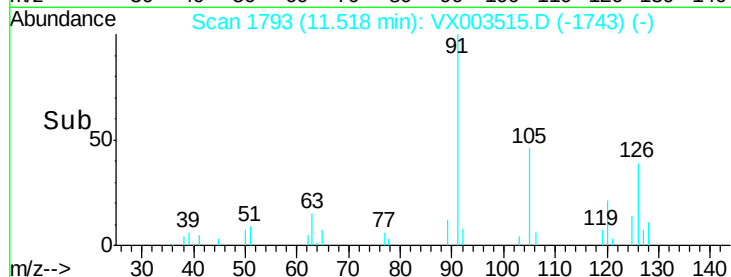
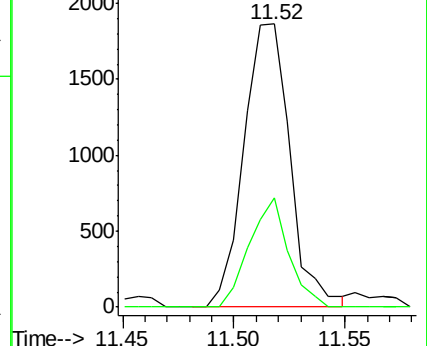
91 100

126 32.6 15.4 46.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#85

sec-Butylbenzene

Concen: 0.20 ug/l

RT: 11.94 min Scan# 1863

Delta R.T. -0.01 min

Lab File: VX003515.D

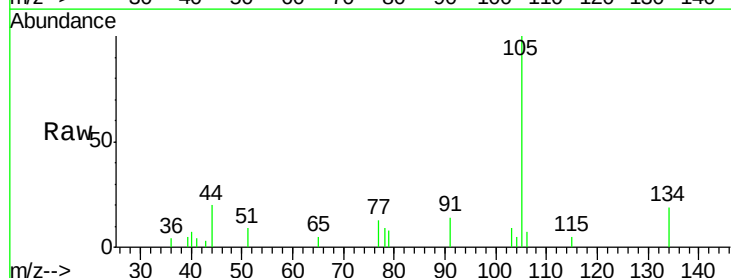
Acq: 20 Jul 2018 17:52

Tgt Ion:105 Resp: 2811

Ion Ratio Lower Upper

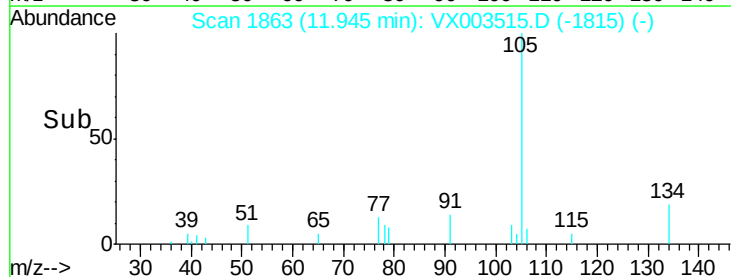
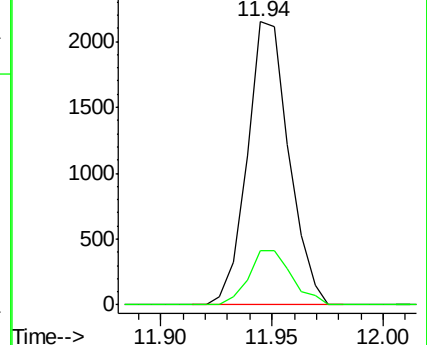
105 100

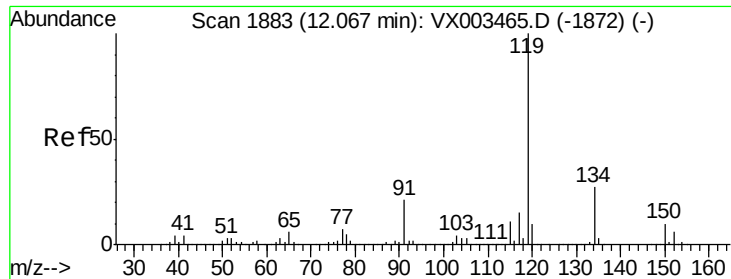
134 19.8 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

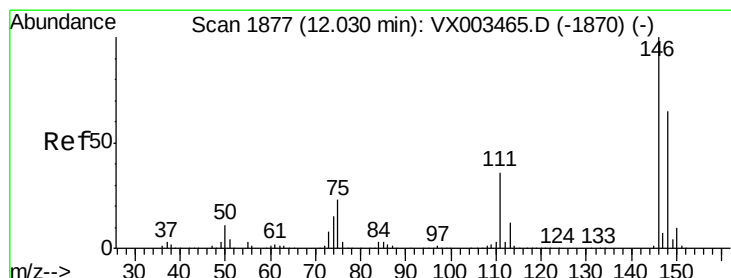
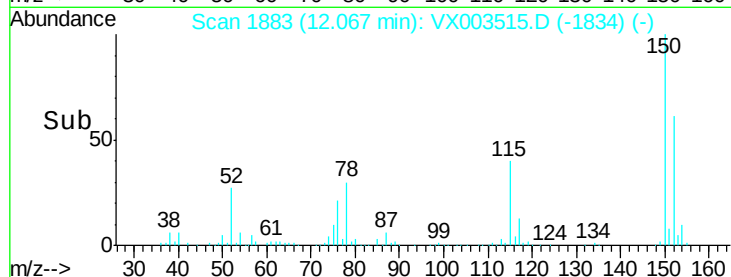
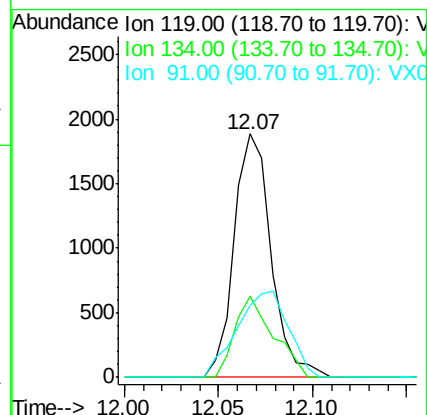
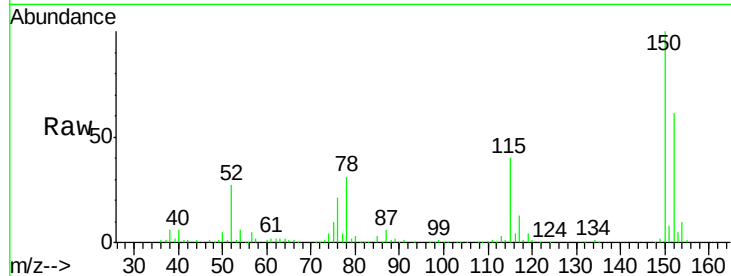




#86  
 p-Isopropyltoluene  
 Concen: 0.20 ug/l  
 RT: 12.07 min Scan# 1883  
 Delta R.T. 0.00 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

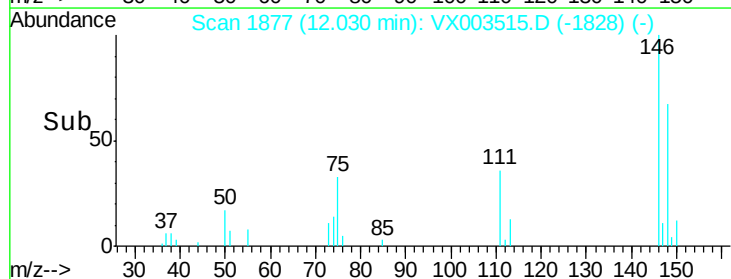
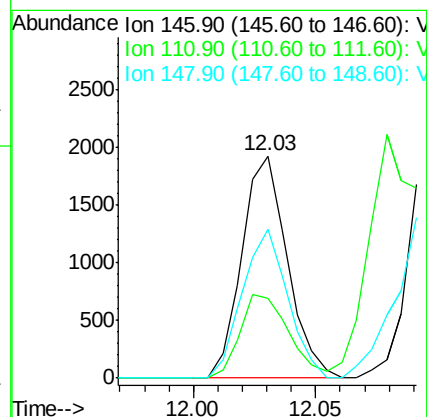
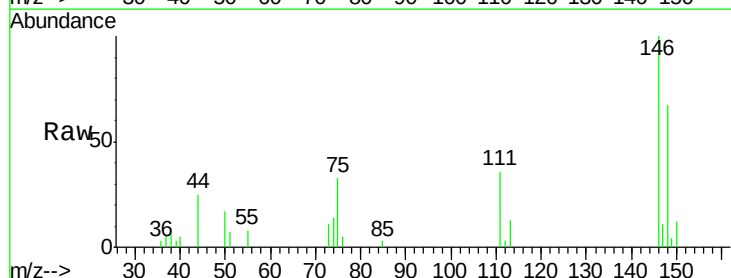
Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 RE120D2-071118DL

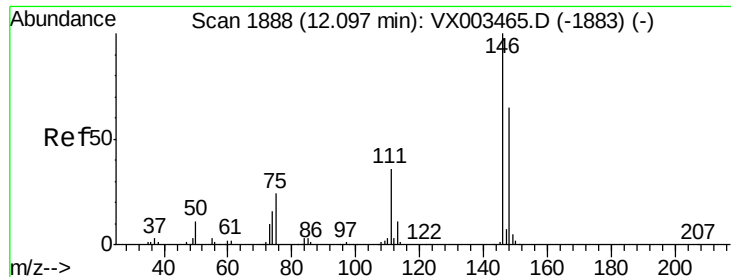
Tot Ion:119 Resp: 2578  
 Ion Ratio Lower Upper  
 119 100  
 134 34.4 13.4 40.1  
 91 48.8 11.9 35.7#



#87  
 1,3-Dichlorobenzene  
 Concen: 0.33 ug/l  
 RT: 12.03 min Scan# 1877  
 Delta R.T. 0.00 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

Tgt Ion:146 Resp: 2484  
 Ion Ratio Lower Upper  
 146 100  
 111 40.7 18.9 56.7  
 148 67.0 32.1 96.3





#88

1,4-Dichlorobenzene

Concen: 0.32 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. -0.07 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-071118DL

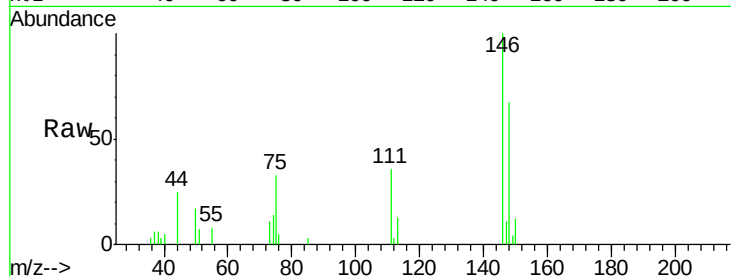
Tot Ion:146 Resp: 2484

Ion Ratio Lower Upper

146 100

111 40.7 18.7 56.1

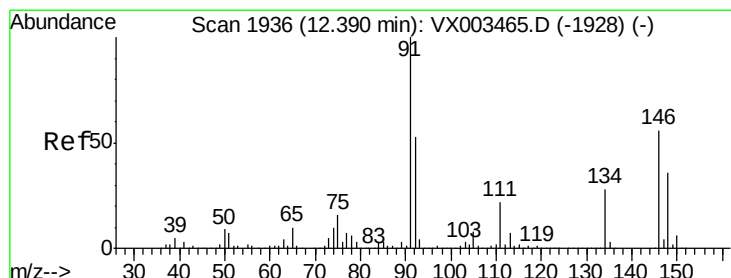
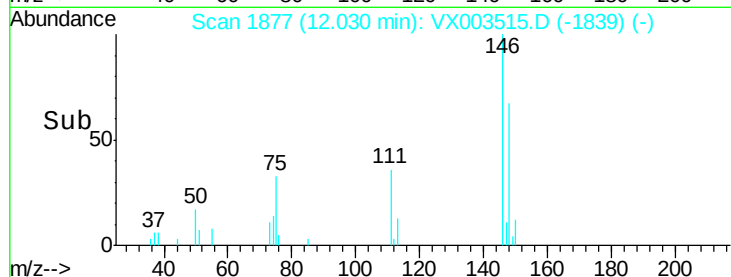
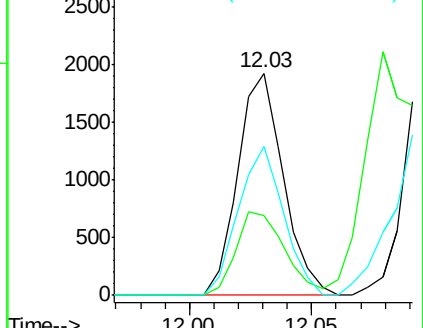
148 67.0 32.4 97.0



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



#89

n-Butylbenzene

Concen: 0.31 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

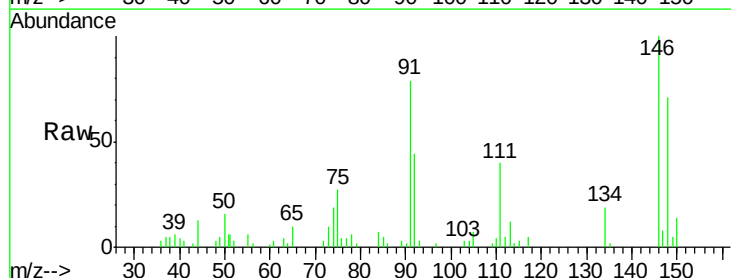
Tgt Ion: 91 Resp: 3332

Ion Ratio Lower Upper

91 100

92 51.2 26.0 78.0

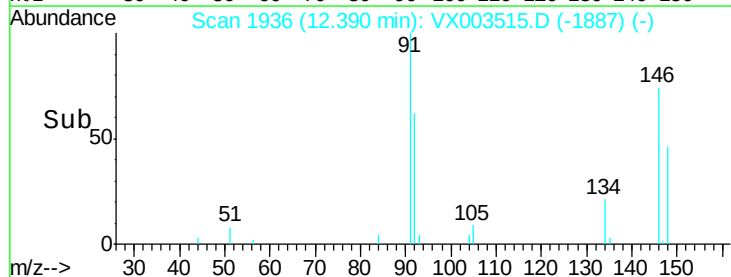
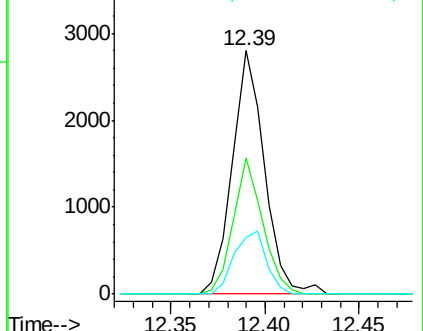
134 25.7 13.5 40.5



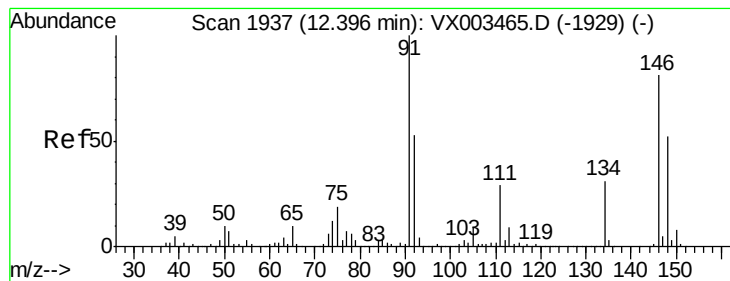
Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V







#91

1,2-Dichlorobenzene

Concen: 0.71 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-071118DL

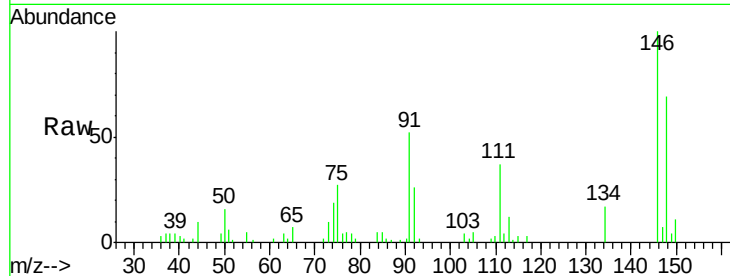
Tot Ion:146 Resp: 5294

Ion Ratio Lower Upper

146 100

111 38.9 19.4 58.1

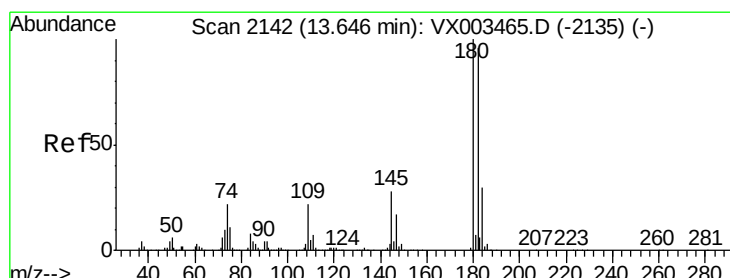
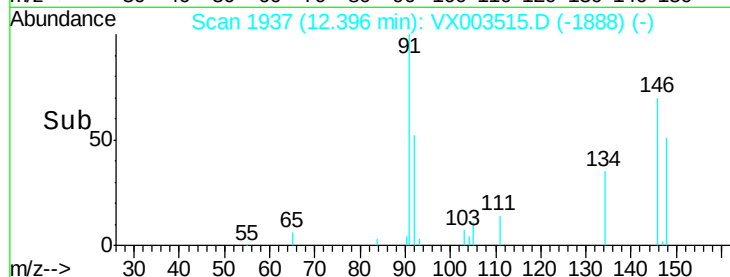
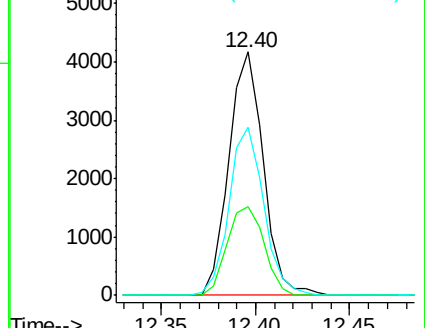
148 69.9 31.7 95.1



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



#93

1,2,4-Trichlorobenzene

Concen: 0.50 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

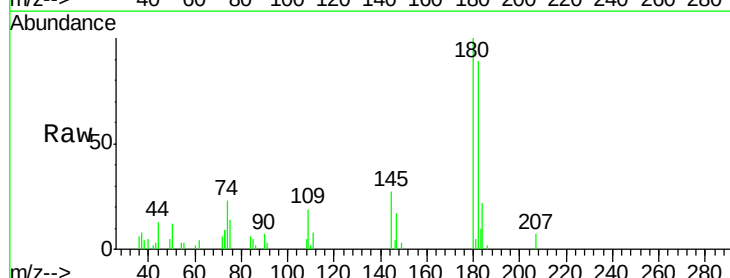
Tgt Ion:180 Resp: 2744

Ion Ratio Lower Upper

180 100

182 98.3 47.7 143.1

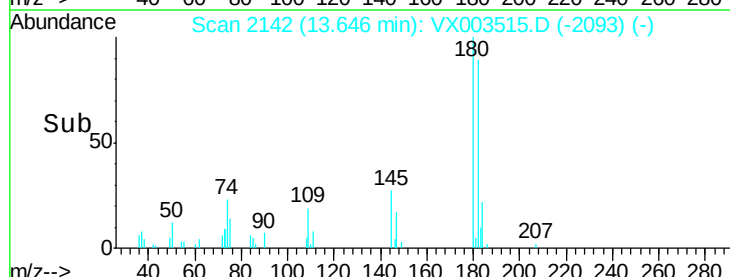
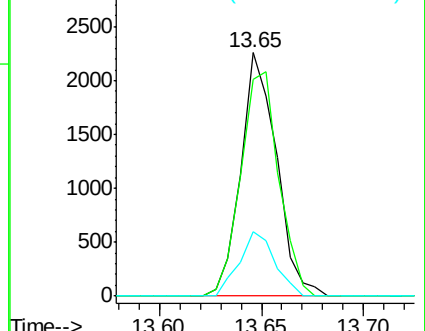
145 26.3 14.1 42.4

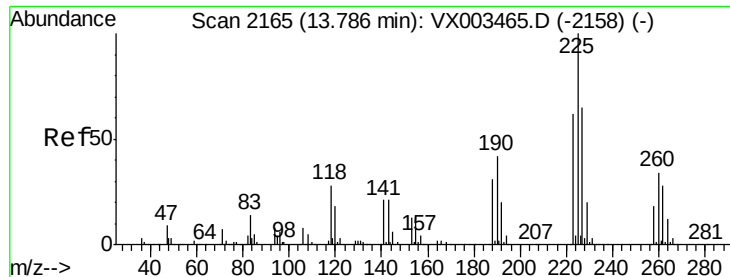


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.55 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-071118DL

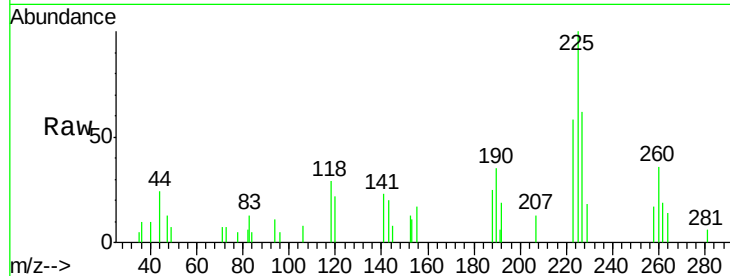
Tot Ion:225 Resp: 1444

Ion Ratio Lower Upper

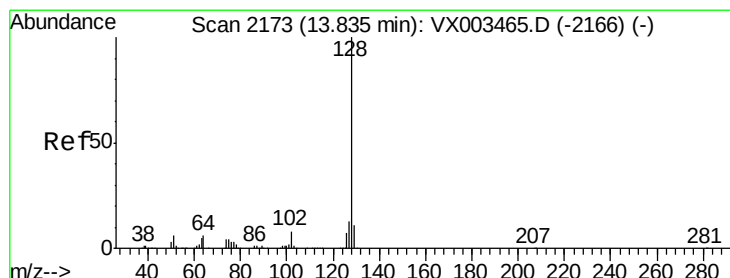
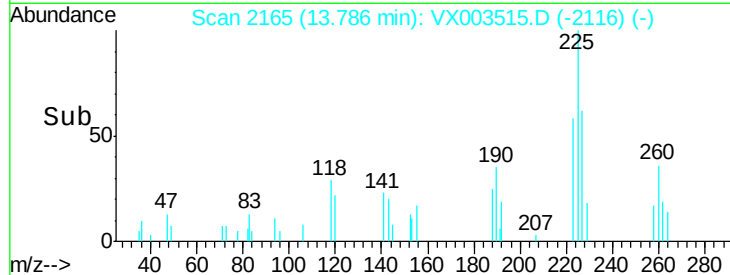
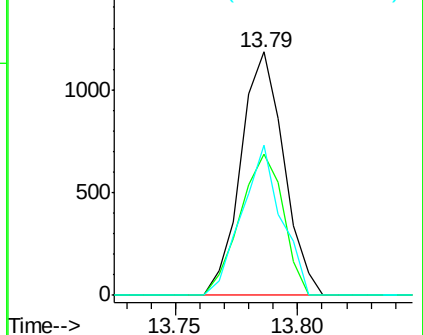
225 100

223 58.4 31.6 95.0

227 56.9 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.36 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003515.D

Acq: 20 Jul 2018 17:52

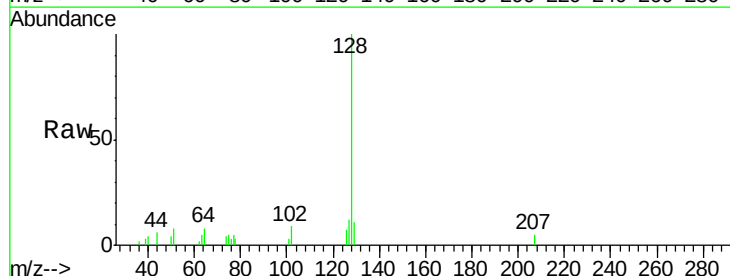
Tgt Ion:128 Resp: 5234

Ion Ratio Lower Upper

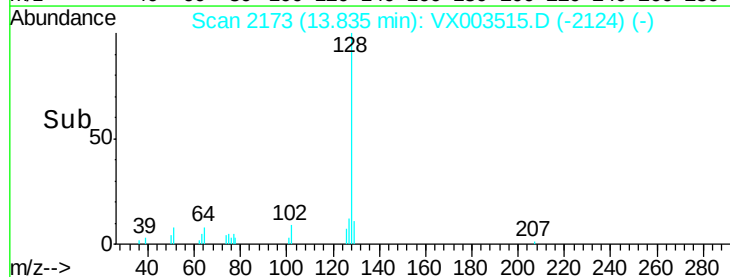
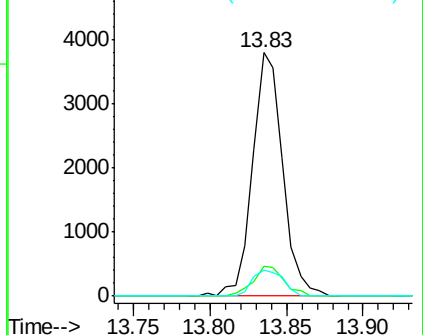
128 100

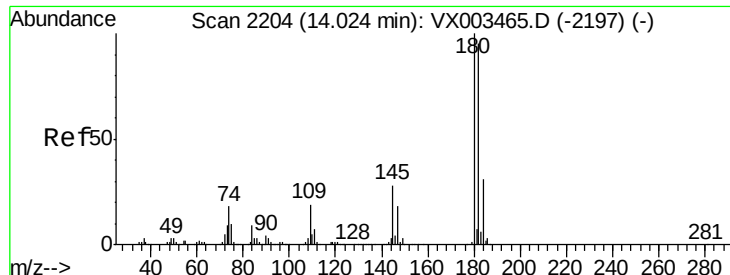
127 12.5 10.4 15.6

129 11.1 8.6 13.0



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

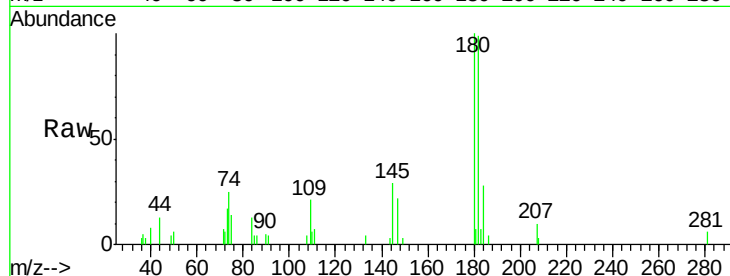




#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.44 ug/l  
 RT: 14.02 min Scan# 2204  
 Delta R.T. 0.00 min  
 Lab File: VX003515.D  
 Acq: 20 Jul 2018 17:52

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-071118DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.0  | 48.0  | 144.0 |
| 145     | 29.8  | 14.8  | 44.3  |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V

