

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX082818\  
 Data File : VX004269.D  
 Acq On : 28 Aug 2018 11:31  
 Operator : JC/MD  
 Sample : VX0828WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0828WBL01

Quant Time: Aug 28 11:51:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

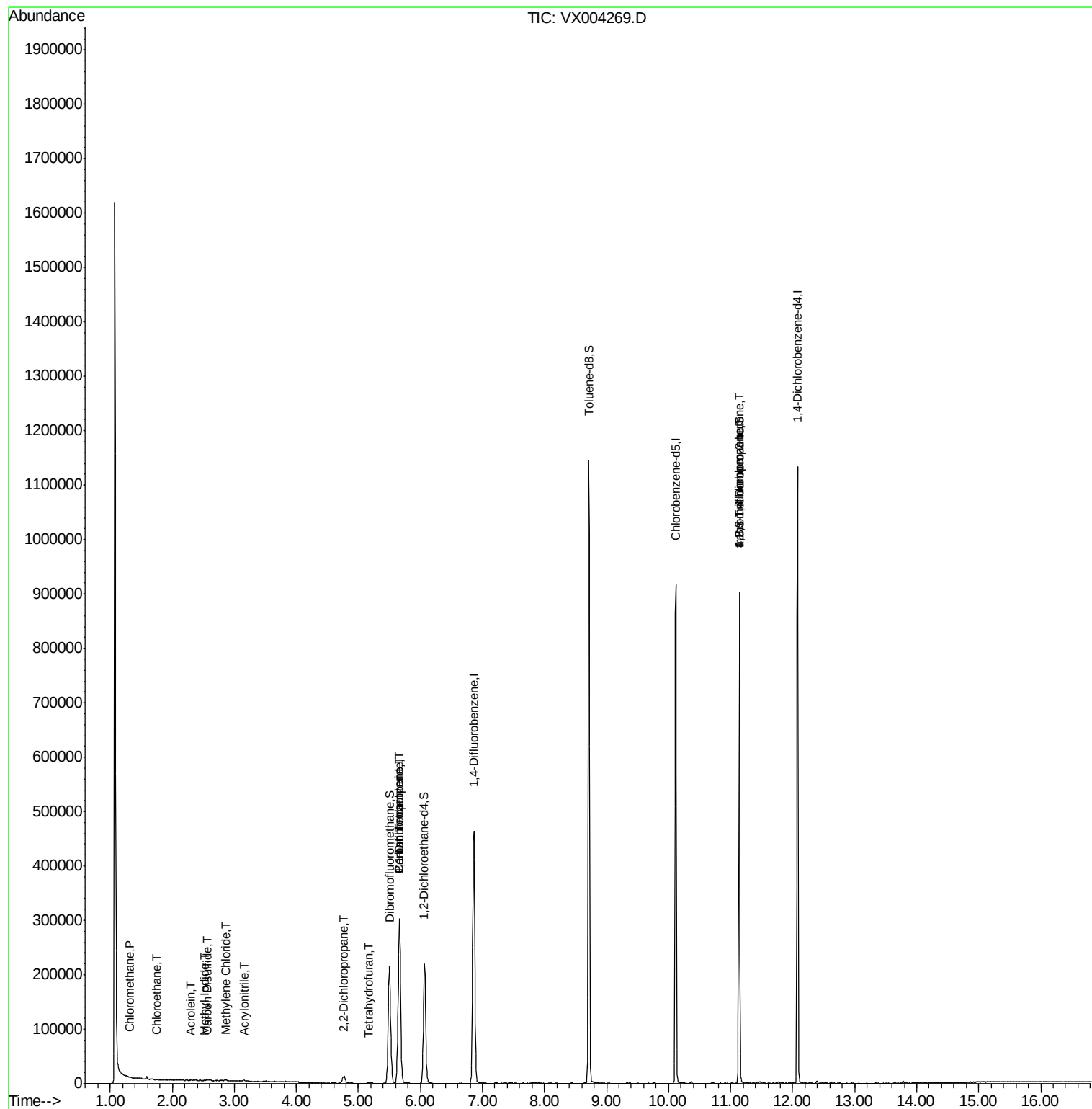
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 5.66  | 168  | 309498   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.86  | 114  | 480764   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.12 | 117  | 435064   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.08 | 152  | 245603   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.06  | 65   | 206173   | 51.11     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.22% |          |
| 35) Dibromofluoromethane       | 5.50  | 113  | 180945   | 50.59     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 101.18% |          |
| 50) Toluene-d8                 | 8.71  | 98   | 667597   | 49.45     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 98.90%  |          |
| 62) 4-Bromofluorobenzene       | 11.14 | 95   | 231683   | 45.99     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 91.98%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 3) Chloromethane               | 1.32  | 50   | 939      | 0.526     | ug/l    | 97       |
| 5) Bromomethane                | 1.65  | 94   | 906      | Below Cal |         | 95       |
| 6) Chloroethane                | 1.73  | 64   | 383      | 1.087     | ug/l    | 100      |
| 10) Methyl Iodide              | 2.52  | 142  | 580      | 4.400     | ug/l #  | 97       |
| 13) Acrolein                   | 2.29  | 56   | 319      | 1.539     | ug/l #  | 60       |
| 15) Acrylonitrile              | 3.15  | 53   | 694      | 0.326     | ug/l #  | 75       |
| 16) Acetone                    | 2.44  | 43   | 1615     | Below Cal |         | 92       |
| 17) Carbon Disulfide           | 2.57  | 76   | 2440     | 1.062     | ug/l #  | 93       |
| 20) Methylene Chloride         | 2.86  | 84   | 1117     | 0.288     | ug/l #  | 77       |
| 25) 2-Butanone                 | 4.71  | 43   | 425      | Below Cal | #       | 47       |
| 26) 2,2-Dichloropropane        | 4.75  | 77   | 1227     | 0.239     | ug/l #  | 52       |
| 29) Tetrahydrofuran            | 5.17  | 42   | 1211     | 0.699     | ug/l #  | 80       |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 20121    | 3.723     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 26841    | 5.279     | ug/l #  | 14       |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 110626   | 22.147    | ug/l #  | 37       |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 110626   | 71.857    | ug/l #  | 10       |

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

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Sample : VX0828WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
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VX0828WBL01

Quant Time: Aug 28 11:51:28 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 05:39:44 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Instrument :

MSVOA\_X

ClientSampleId :

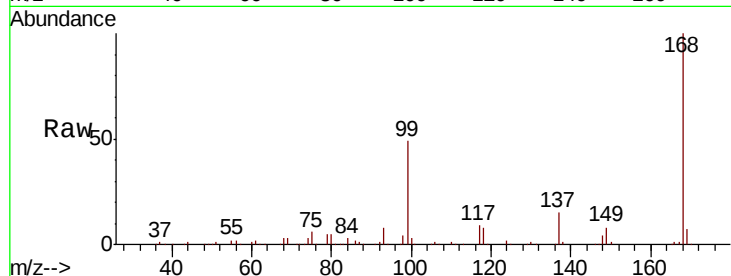
VX0828WBL01

Tgt Ion:168 Resp: 309498

Ion Ratio Lower Upper

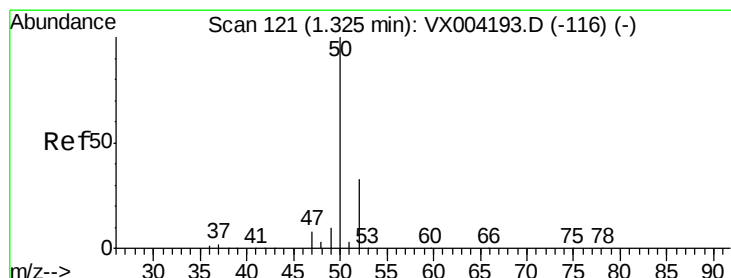
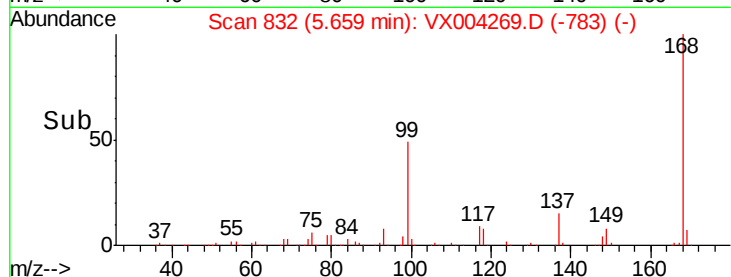
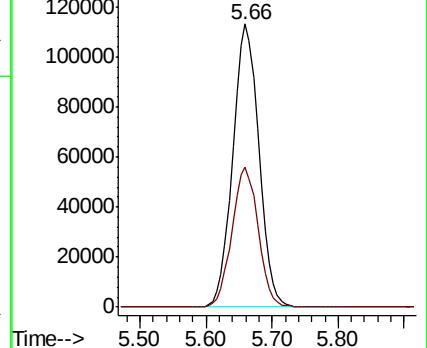
168 100

99 49.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.526 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004269.D

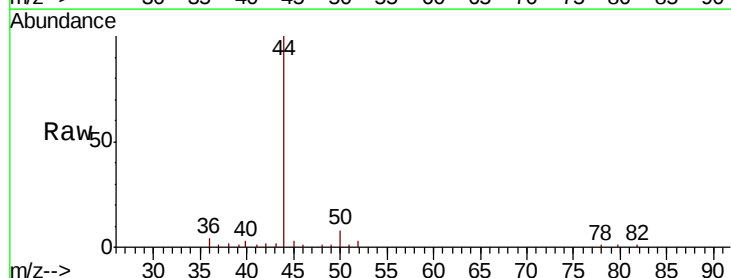
Acq: 28 Aug 2018 11:31

Tgt Ion: 50 Resp: 939

Ion Ratio Lower Upper

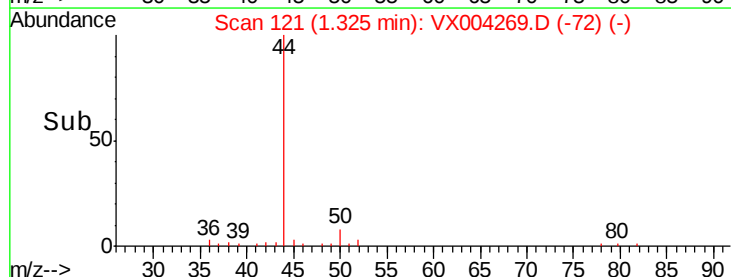
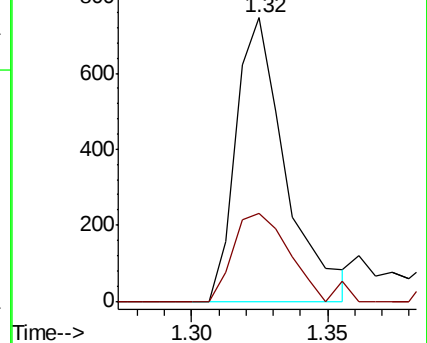
50 100

52 30.8 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Instrument :

MSVOA\_X

ClientSampleId :

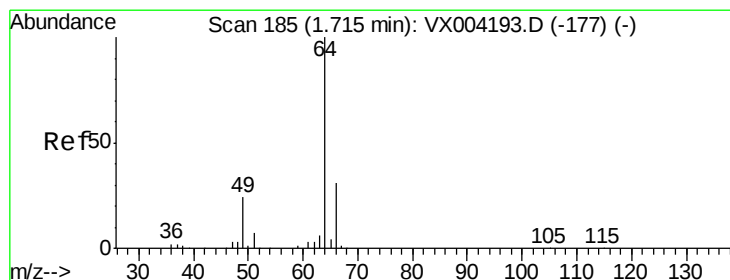
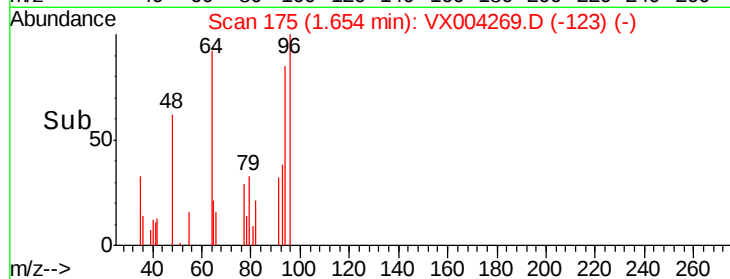
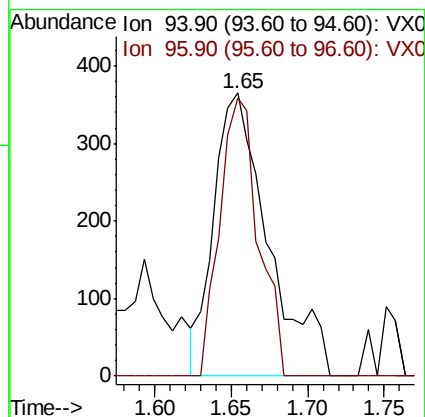
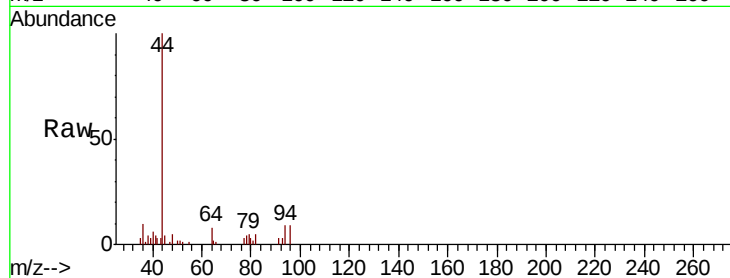
VX0828WBL01

Tgt Ion: 94 Resp: 906

Ion Ratio Lower Upper

94 100

96 98.4 74.5 111.7



#6

Chloroethane

Concen: 1.087 ug/l

RT: 1.73 min Scan# 188

Delta R.T. 0.02 min

Lab File: VX004269.D

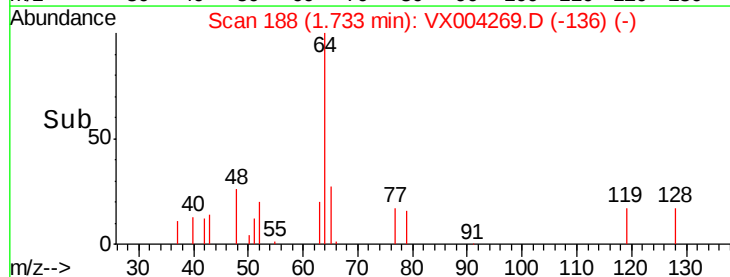
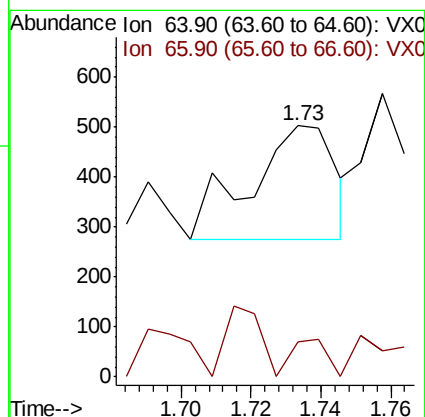
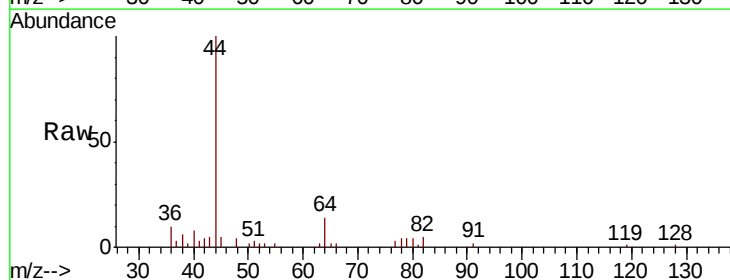
Acq: 28 Aug 2018 11:31

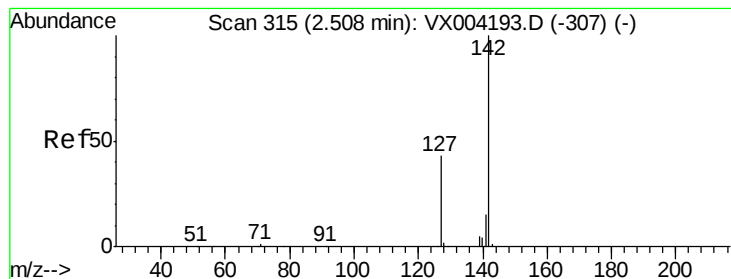
Tgt Ion: 64 Resp: 383

Ion Ratio Lower Upper

64 100

66 30.8 24.6 36.8





#10

Methyl Iodide

Concen: 4.400 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Instrument :

MSVOA\_X

ClientSampleId :

VX0828WBL01

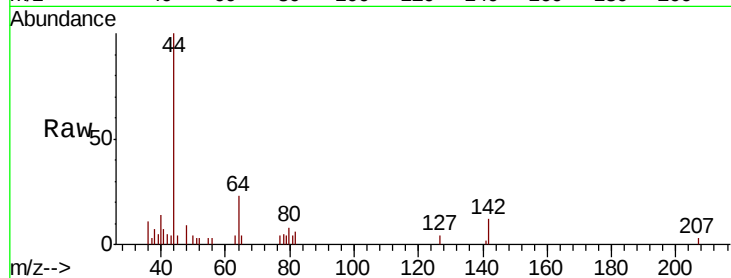
Tgt Ion: 142 Resp: 580

Ion Ratio Lower Upper

142 100

127 41.7 33.8 50.6

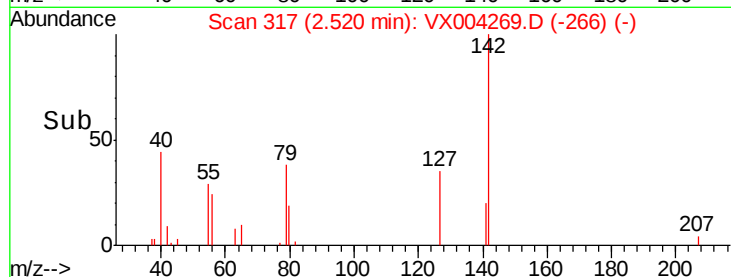
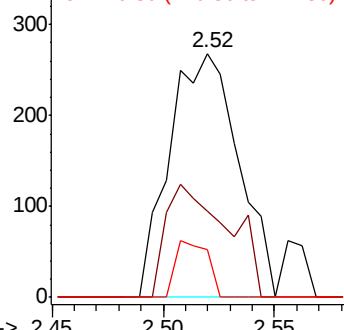
141 10.9 11.4 17.0#



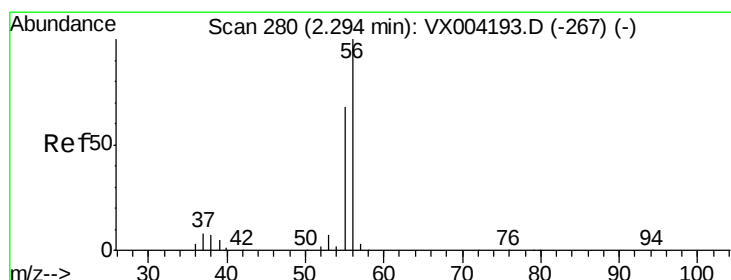
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



#13

Acrolein

Concen: 1.539 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX004269.D

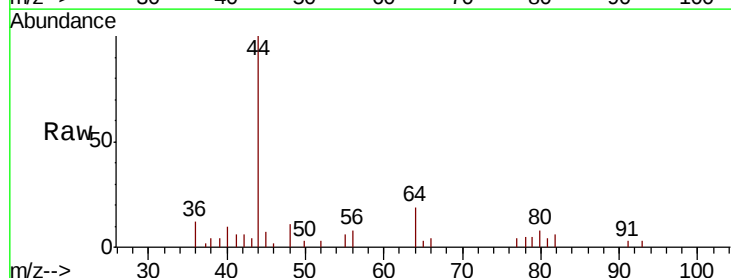
Acq: 28 Aug 2018 11:31

Tgt Ion: 56 Resp: 319

Ion Ratio Lower Upper

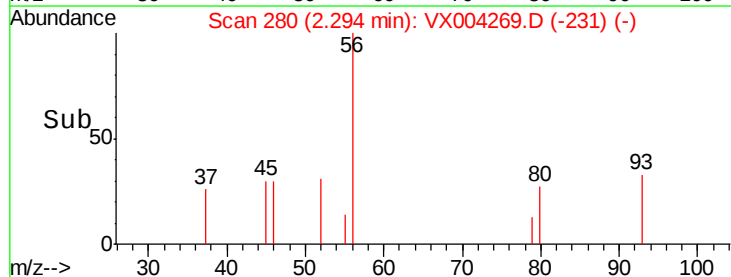
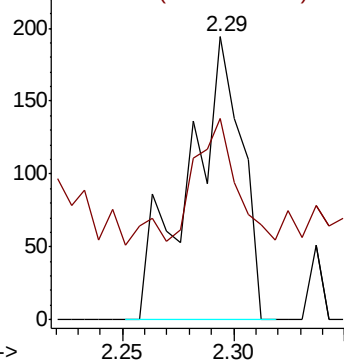
56 100

55 36.1 54.7 82.1#

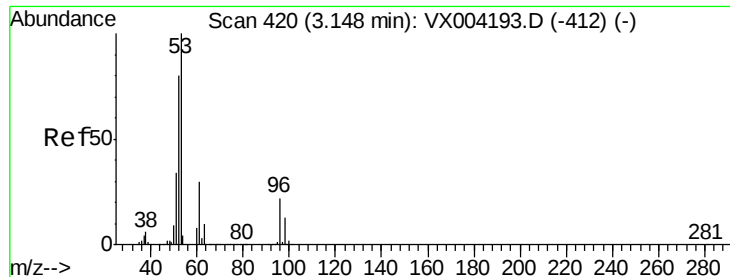


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.326 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.00 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Instrument :

MSVOA\_X

ClientSampleId :

VX0828WBL01

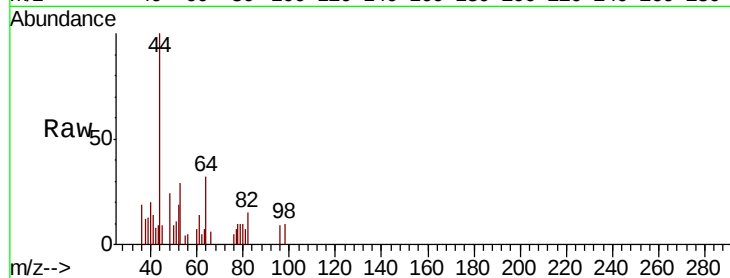
Tgt Ion: 53 Resp: 694

Ion Ratio Lower Upper

53 100

52 103.0 65.2 97.8#

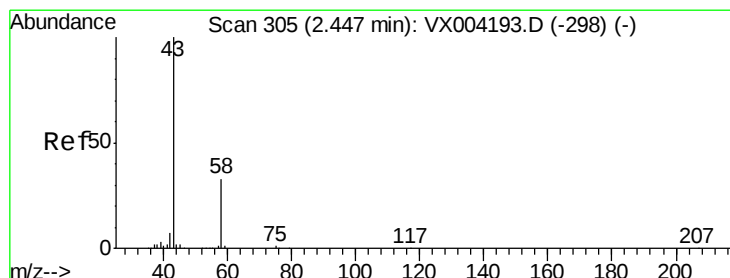
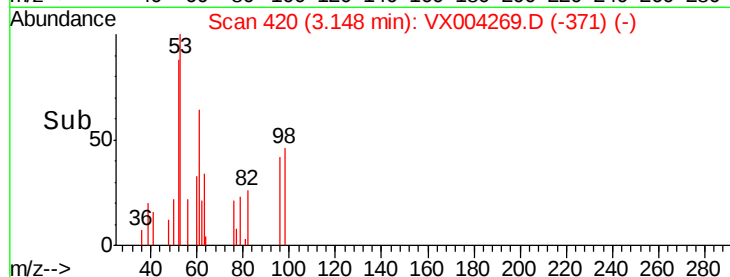
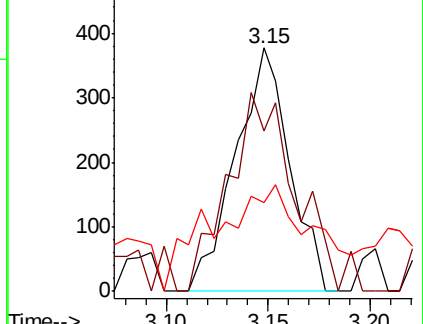
51 51.3 28.2 42.2#



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: Below Cal

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX004269.D

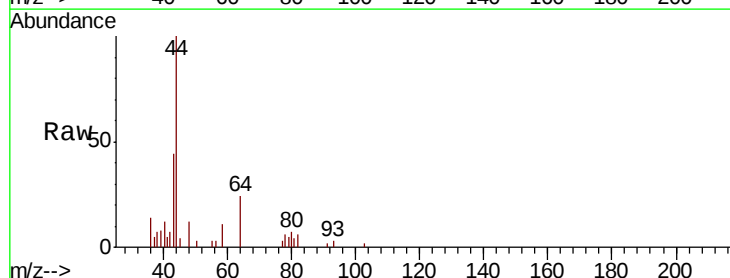
Acq: 28 Aug 2018 11:31

Tgt Ion: 43 Resp: 1615

Ion Ratio Lower Upper

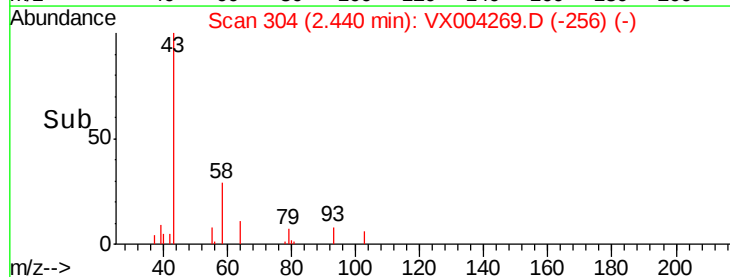
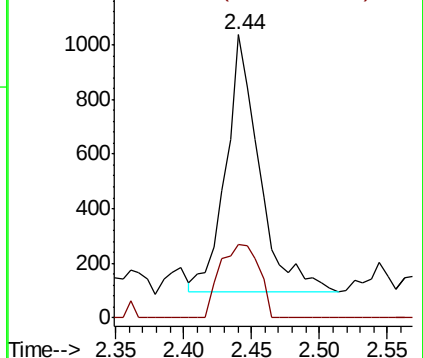
43 100

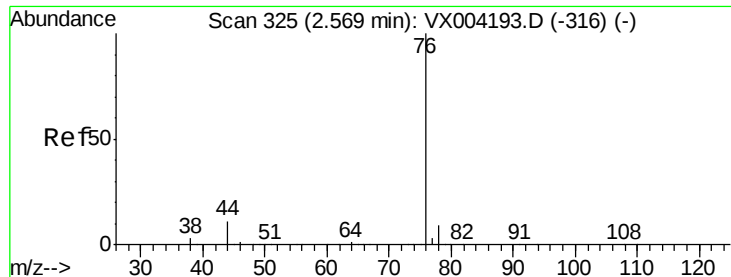
58 28.3 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.062 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Instrument :

MSVOA\_X

ClientSampleId :

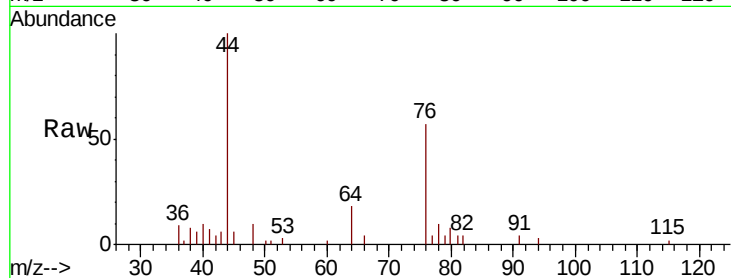
VX0828WBL01

Tgt Ion: 76 Resp: 2440

Ion Ratio Lower Upper

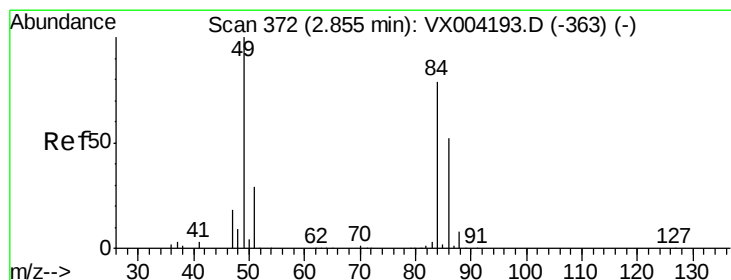
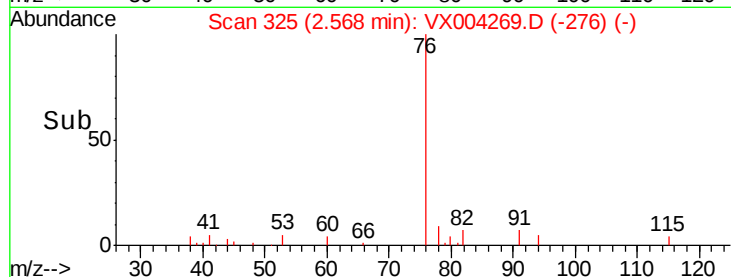
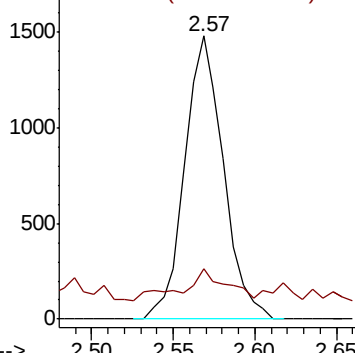
76 100

78 11.4 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.288 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Tgt Ion: 84 Resp: 1117

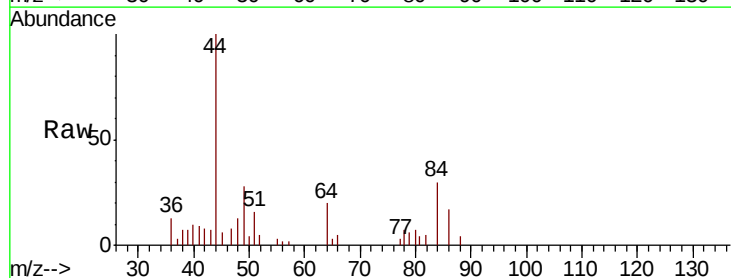
Ion Ratio Lower Upper

84 100

49 93.0 101.2 151.8#

51 53.0 29.5 44.3#

86 57.8 52.3 78.5

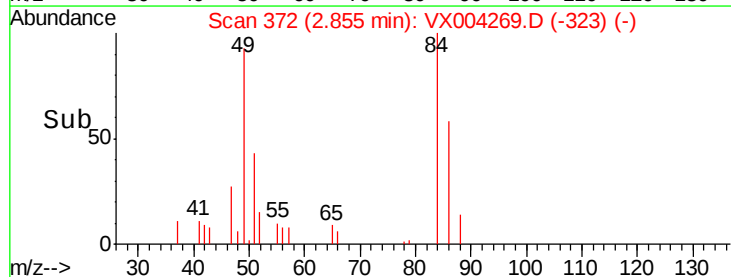
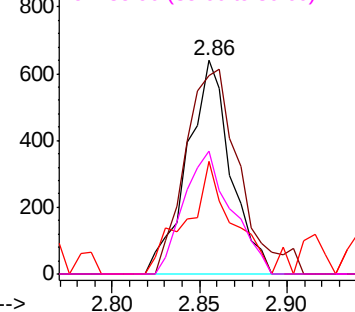


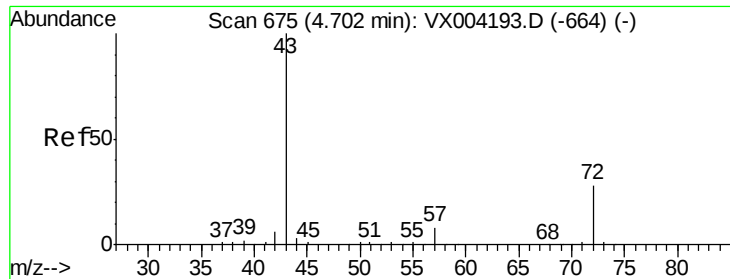
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Instrument :

MSVOA\_X

ClientSampleId :

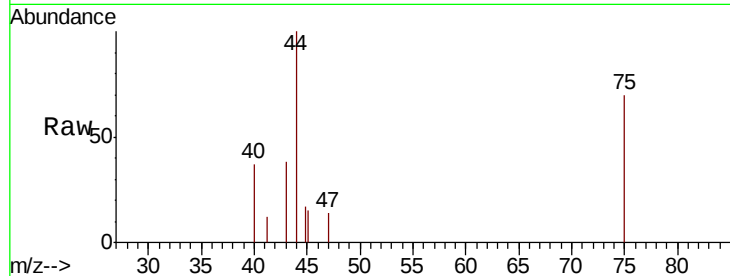
VX0828WBL01

Tgt Ion: 43 Resp: 425

Ion Ratio Lower Upper

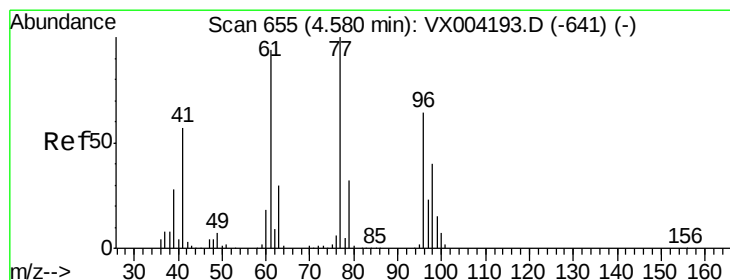
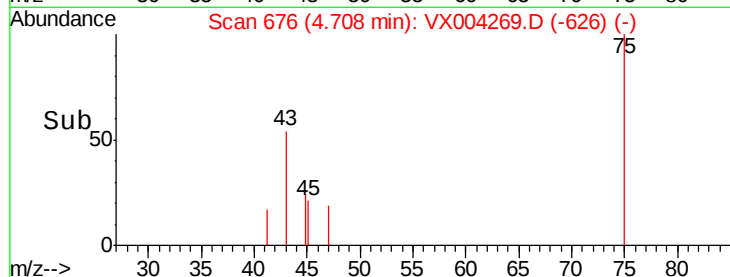
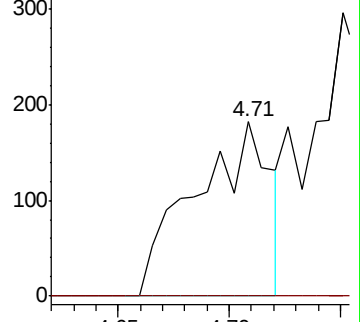
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.239 ug/l

RT: 4.75 min Scan# 683

Delta R.T. 0.17 min

Lab File: VX004269.D

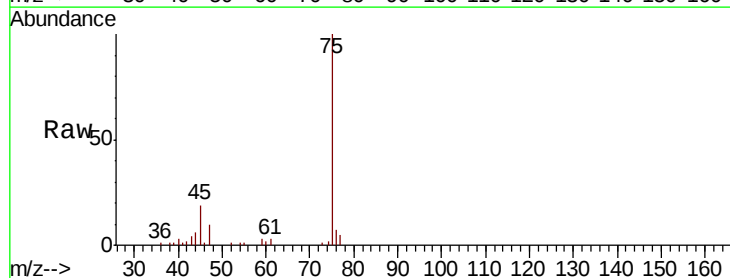
Acq: 28 Aug 2018 11:31

Tgt Ion: 77 Resp: 1227

Ion Ratio Lower Upper

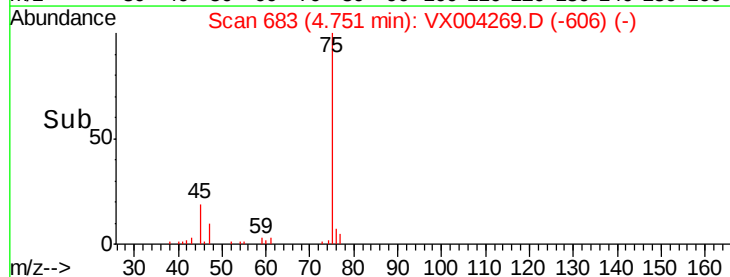
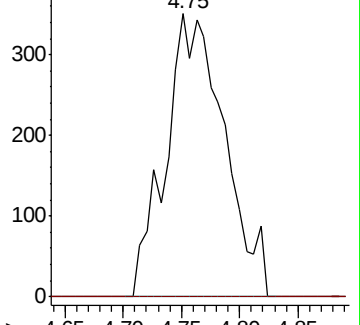
77 100

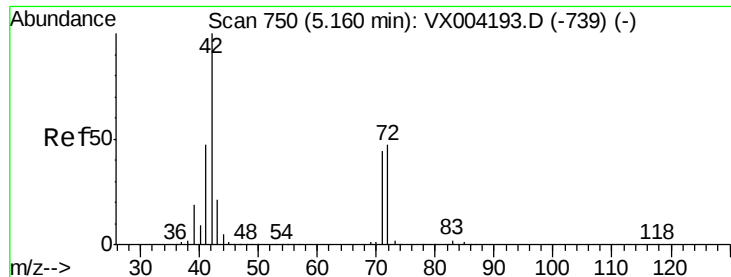
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#29

Tetrahydrofuran

Concen: 0.699 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Instrument :

MSVOA\_X

ClientSampleId :

VX0828WBL01

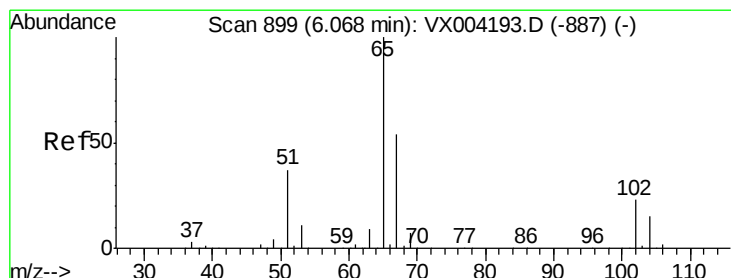
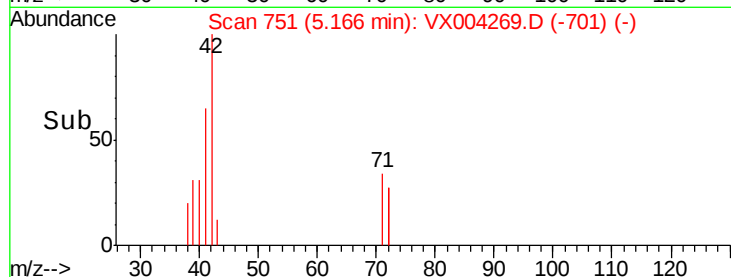
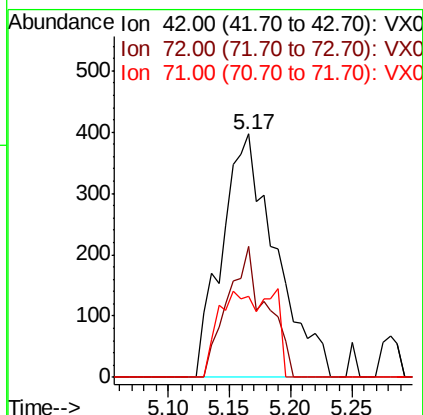
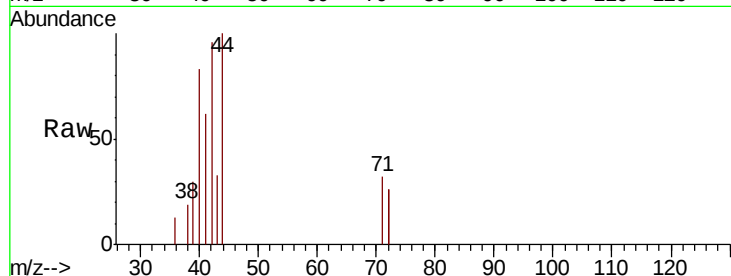
Tgt Ion: 42 Resp: 1211

Ion Ratio Lower Upper

42 100

72 38.9 37.4 56.0

71 24.1 34.5 51.7#



#33

1,2-Dichloroethane-d4

Concen: 51.110 ug/l

RT: 6.06 min Scan# 898

Delta R.T. -0.01 min

Lab File: VX004269.D

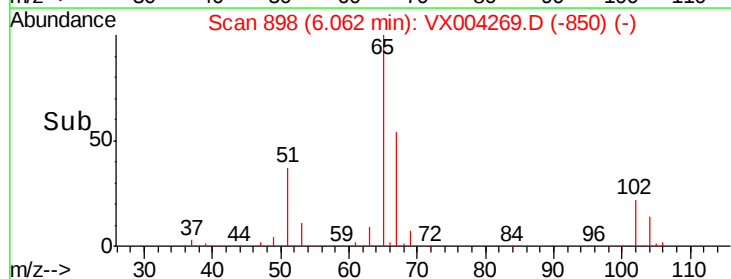
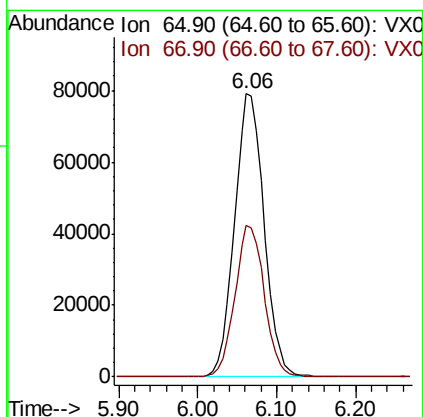
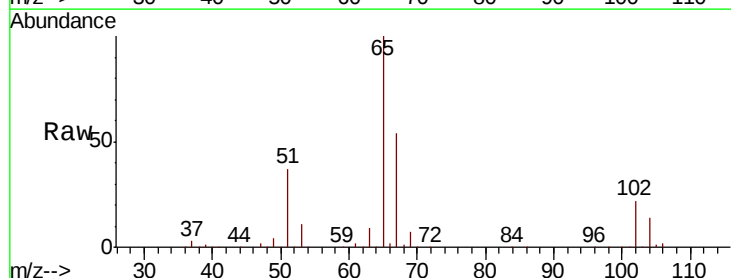
Acq: 28 Aug 2018 11:31

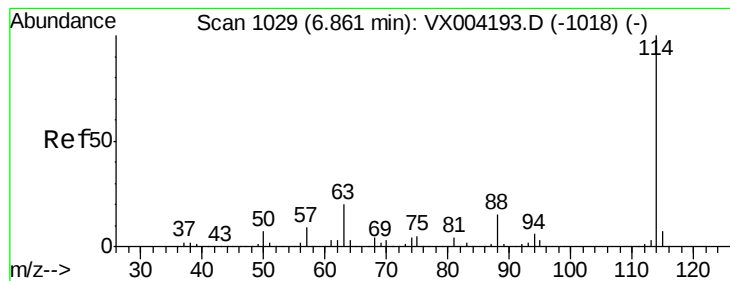
Tgt Ion: 65 Resp: 206173

Ion Ratio Lower Upper

65 100

67 53.3 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

Instrument :

MSVOA\_X

ClientSampleId :

VX0828WBL01

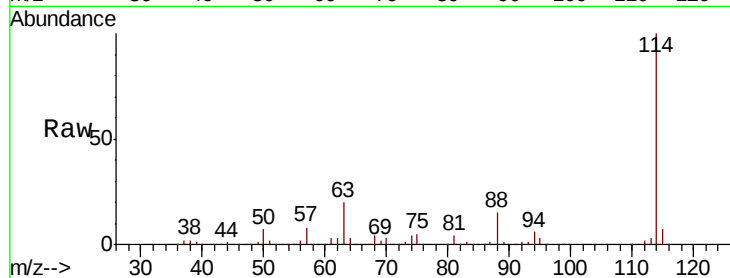
Tgt Ion:114 Resp: 480764

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

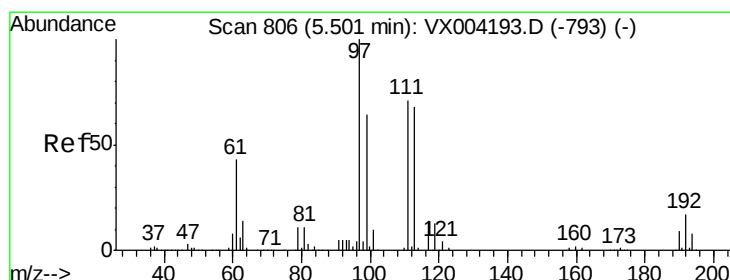
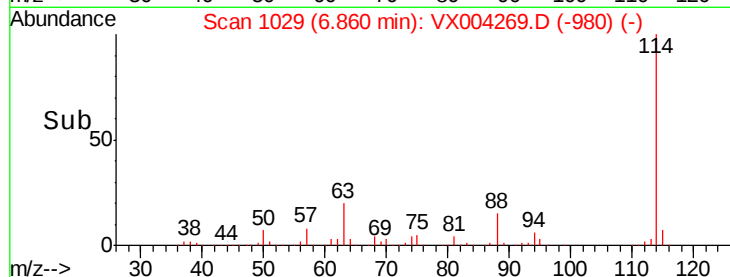
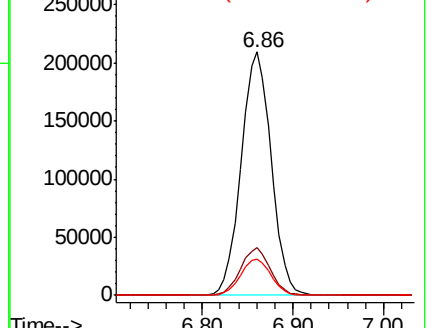
88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.592 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004269.D

Acq: 28 Aug 2018 11:31

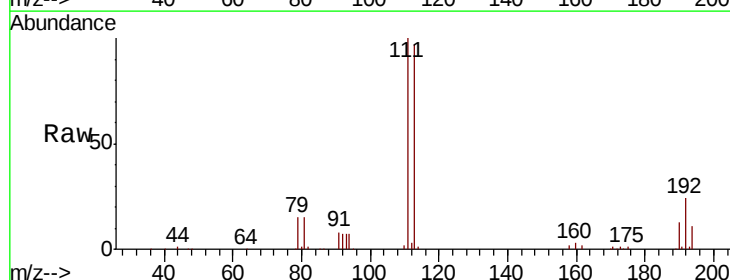
Tgt Ion:113 Resp: 180945

Ion Ratio Lower Upper

113 100

111 102.1 82.4 123.6

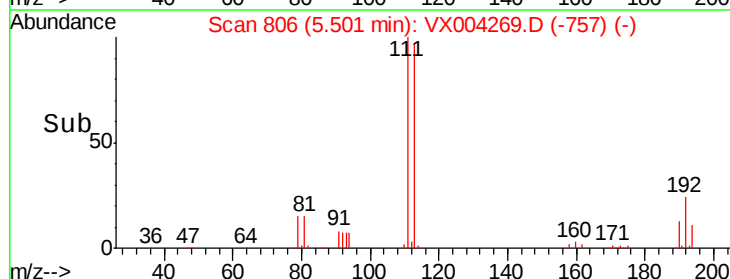
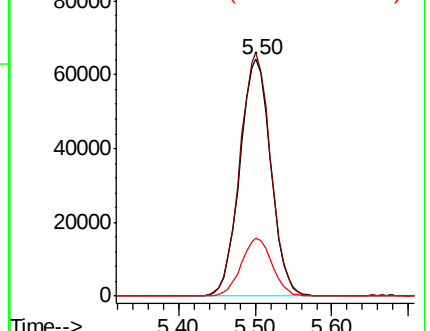
192 24.3 19.4 29.2

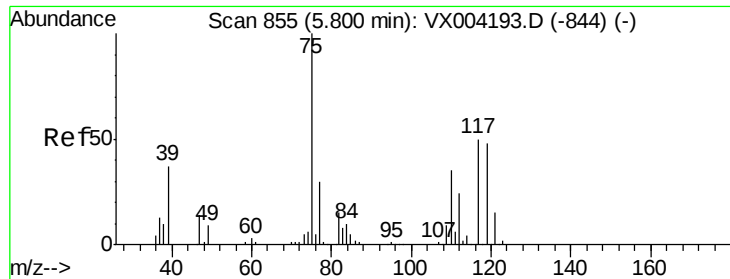


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

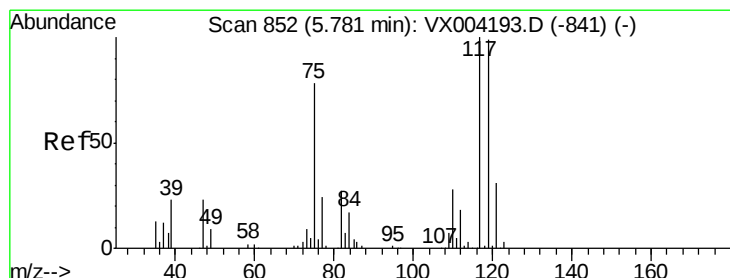
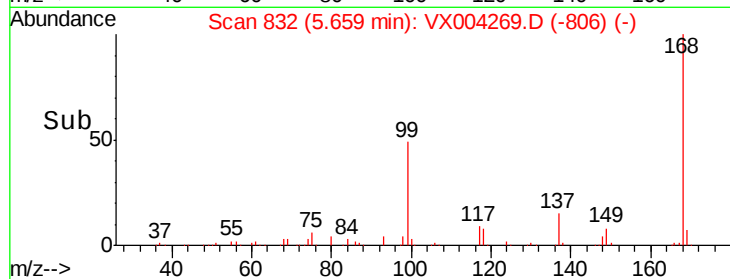
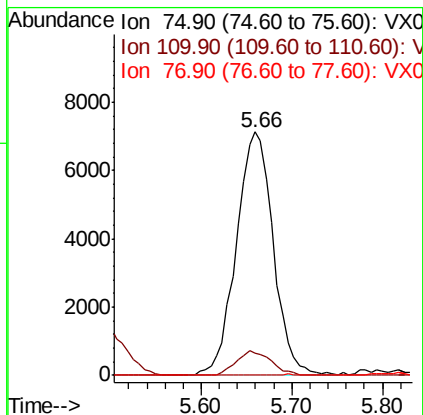
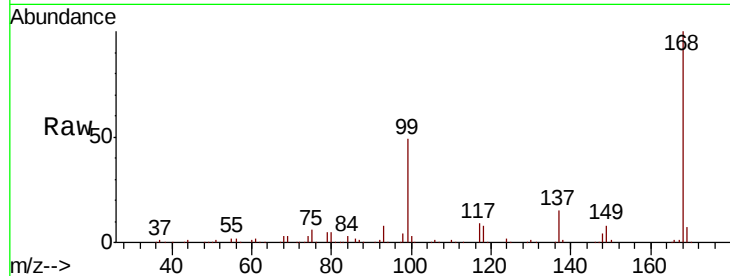




#36  
 1,1-Dichloropropene  
 Concen: 3.723 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.14 min  
 Lab File: VX004269.D  
 Acq: 28 Aug 2018 11:31

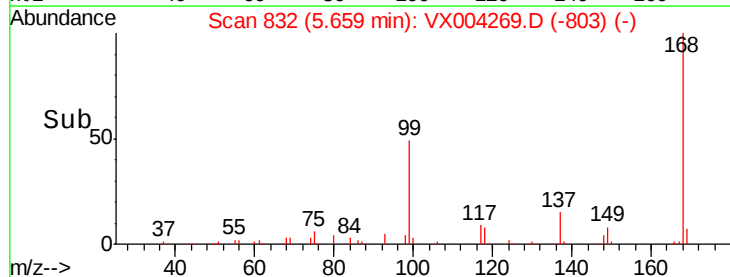
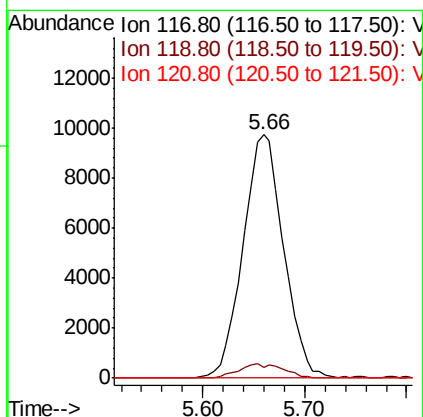
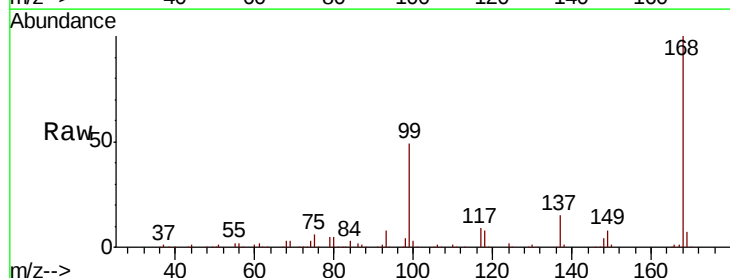
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0828WBL01

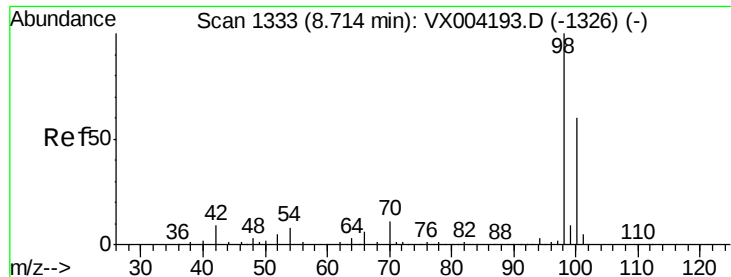
Tgt Ion: 75 Resp: 20121  
 Ion Ratio Lower Upper  
 75 100  
 110 9.4 18.0 54.0#  
 77 0.0 24.6 36.8#



#38  
 Carbon Tetrachloride  
 Concen: 5.279 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.12 min  
 Lab File: VX004269.D  
 Acq: 28 Aug 2018 11:31

Tgt Ion: 117 Resp: 26841  
 Ion Ratio Lower Upper  
 117 100  
 119 4.5 78.8 118.2#  
 121 0.0 24.9 37.3#

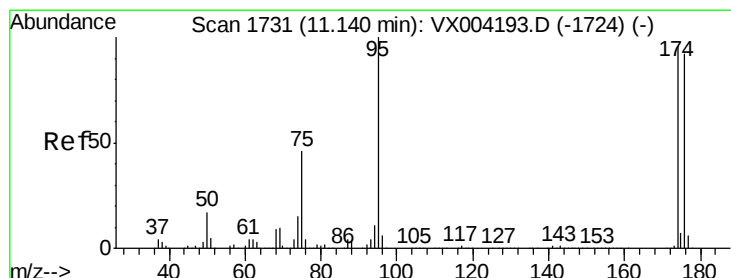
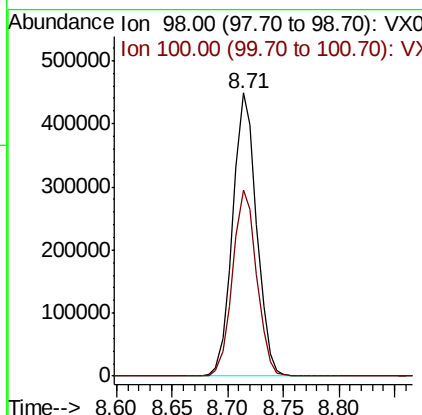
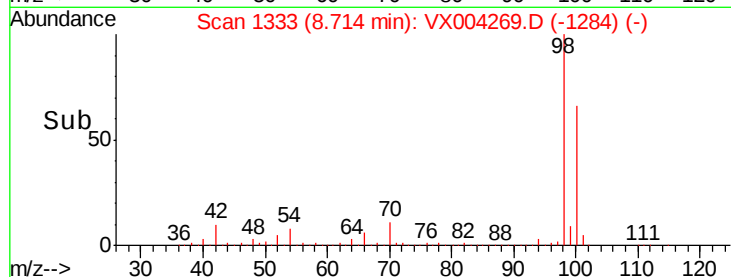
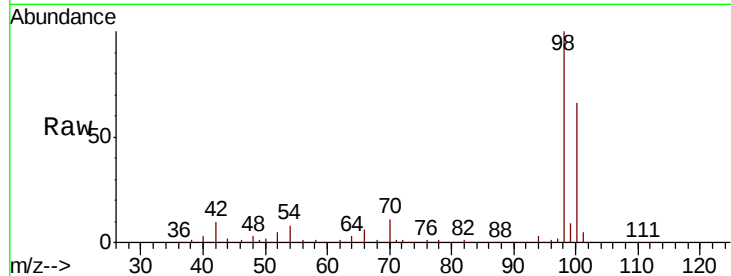




#50  
Toluene-d8  
Concen: 49.451 ug/l  
RT: 8.71 min Scan# 1333  
Delta R.T. -0.00 min  
Lab File: VX004269.D  
Acq: 28 Aug 2018 11:31

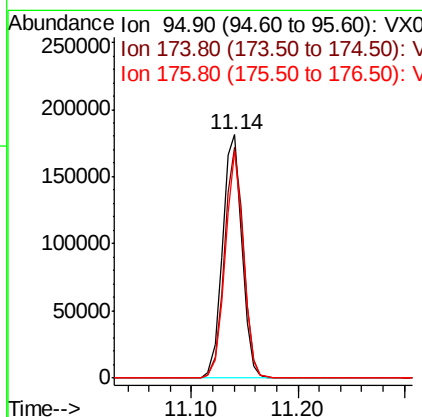
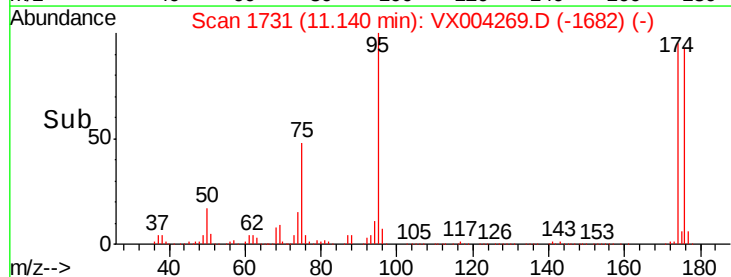
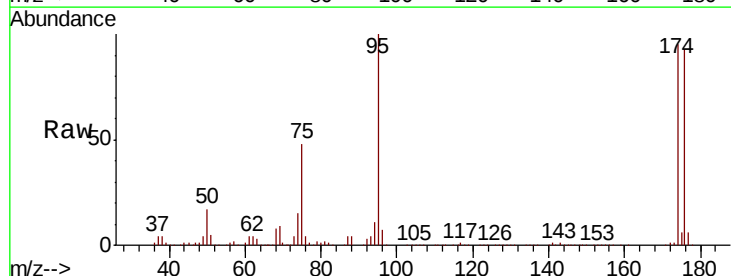
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0828WBL01

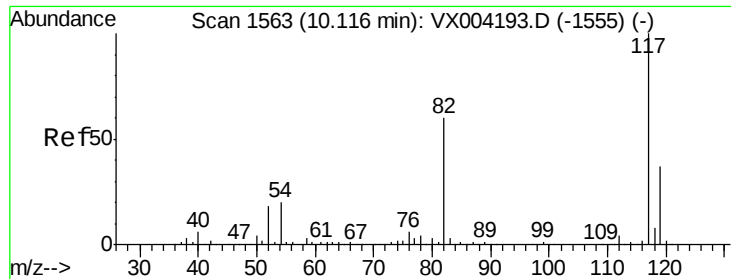
Tgt Ion: 98 Resp: 667597  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.9 79.3



#62  
4-Bromofluorobenzene  
Concen: 45.994 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.00 min  
Lab File: VX004269.D  
Acq: 28 Aug 2018 11:31

Tgt Ion: 95 Resp: 231683  
Ion Ratio Lower Upper  
95 100  
174 93.5 0.0 185.2  
176 88.0 0.0 178.6

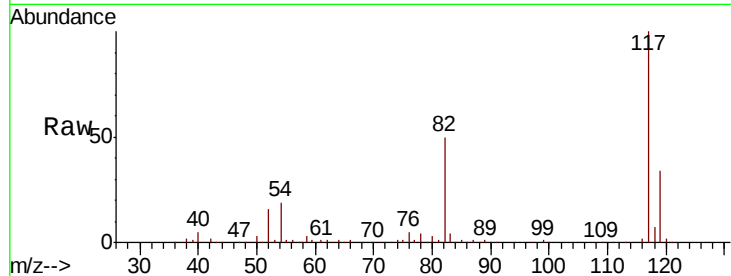




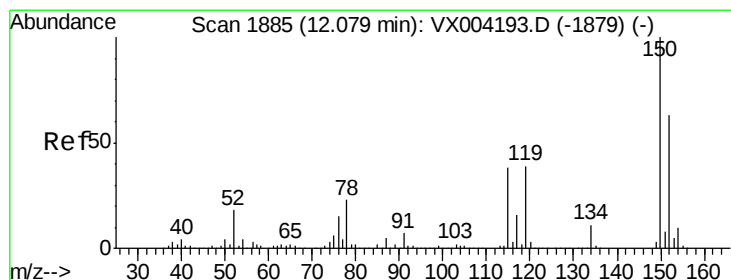
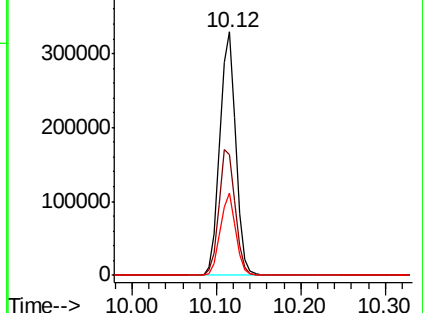
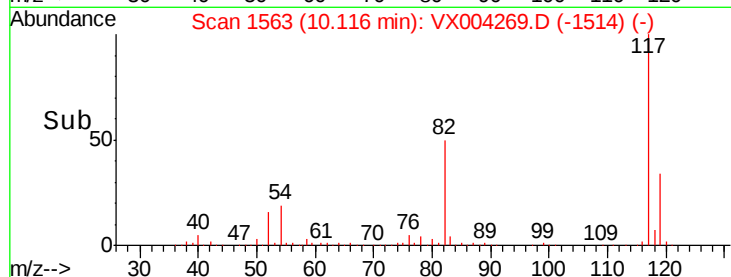
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX004269.D  
Acq: 28 Aug 2018 11:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0828WBL01

Tgt Ion:117 Resp: 435064  
Ion Ratio Lower Upper  
117 100  
82 49.5 47.8 71.6  
119 33.6 29.3 43.9

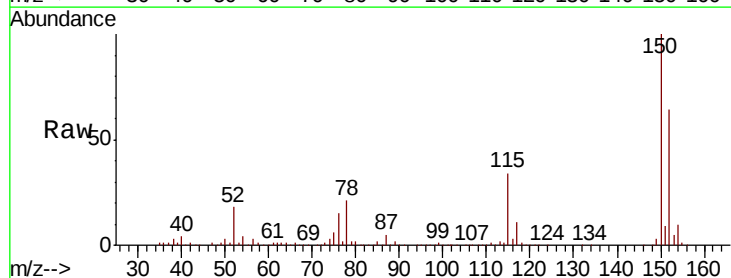


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

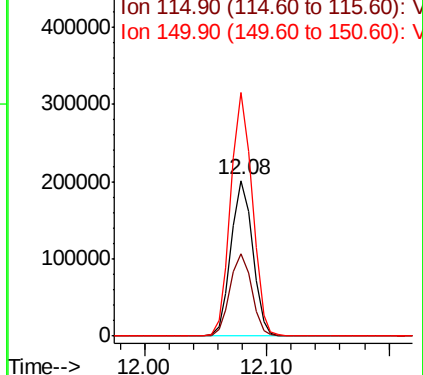
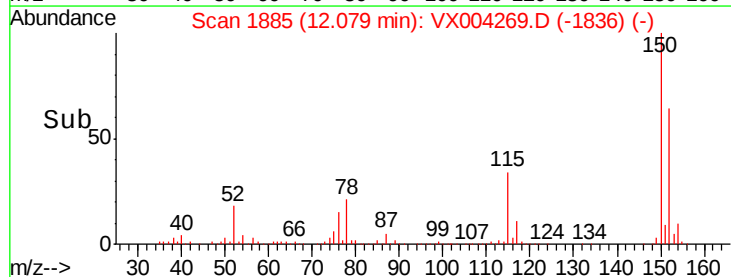


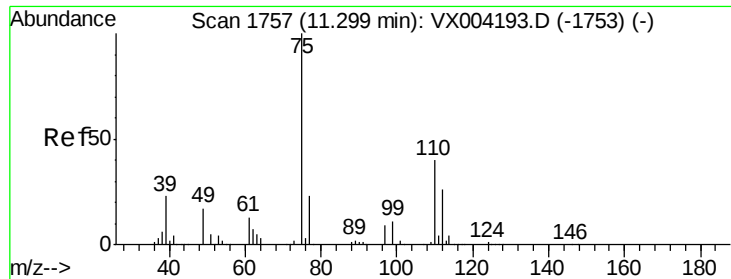
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1885  
Delta R.T. -0.00 min  
Lab File: VX004269.D  
Acq: 28 Aug 2018 11:31

Tgt Ion:152 Resp: 245603  
Ion Ratio Lower Upper  
152 100  
115 53.5 39.0 117.0  
150 155.8 0.0 351.0



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

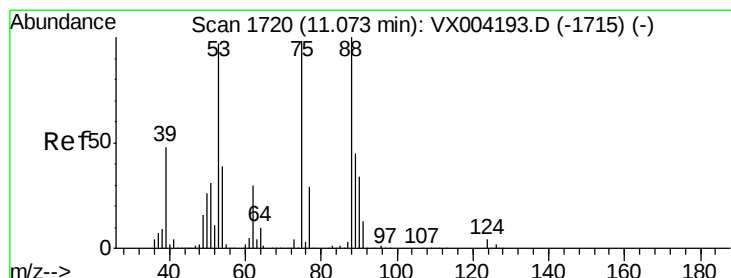
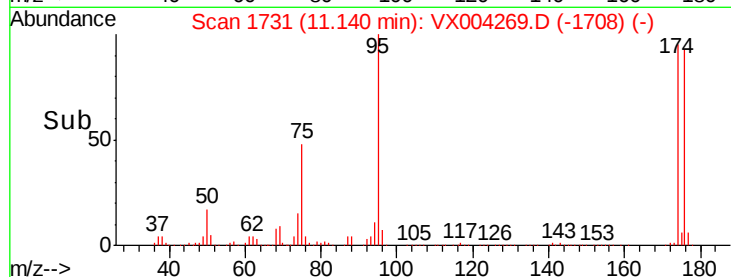
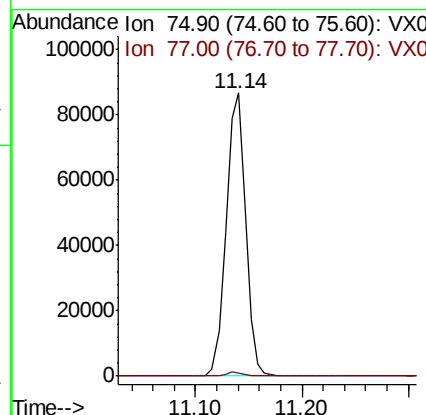
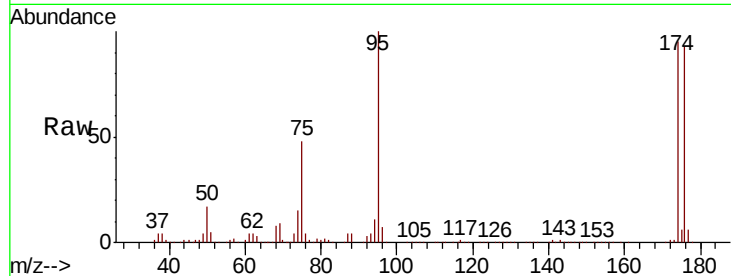




#76  
 1,2,3-Trichloropropane  
 Concen: 22.147 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX004269.D  
 Acq: 28 Aug 2018 11:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0828WBL01

Tgt Ion: 75 Resp: 110626  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 20.2 60.6#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 71.857 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.07 min  
 Lab File: VX004269.D  
 Acq: 28 Aug 2018 11:31

Tgt Ion: 75 Resp: 110626  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 80.1 120.1#  
 89 0.0 37.2 55.8#

