

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX090719\  
 Data File : VX012208.D  
 Acq On : 08 Sep 2019 08:07  
 Operator : SY/SP  
 Sample : K4650-15  
 Misc : 4.98g/5.0mL/MSVOA\_X/SOIL  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-8

Quant Time: Sep 09 01:20:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 140064   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 239790   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 191015   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 64701    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 96366    | 49.86 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.72%  |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 72700    | 49.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.60%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 278449   | 51.46 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.92% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 92039    | 36.57 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 73.14%  |      |

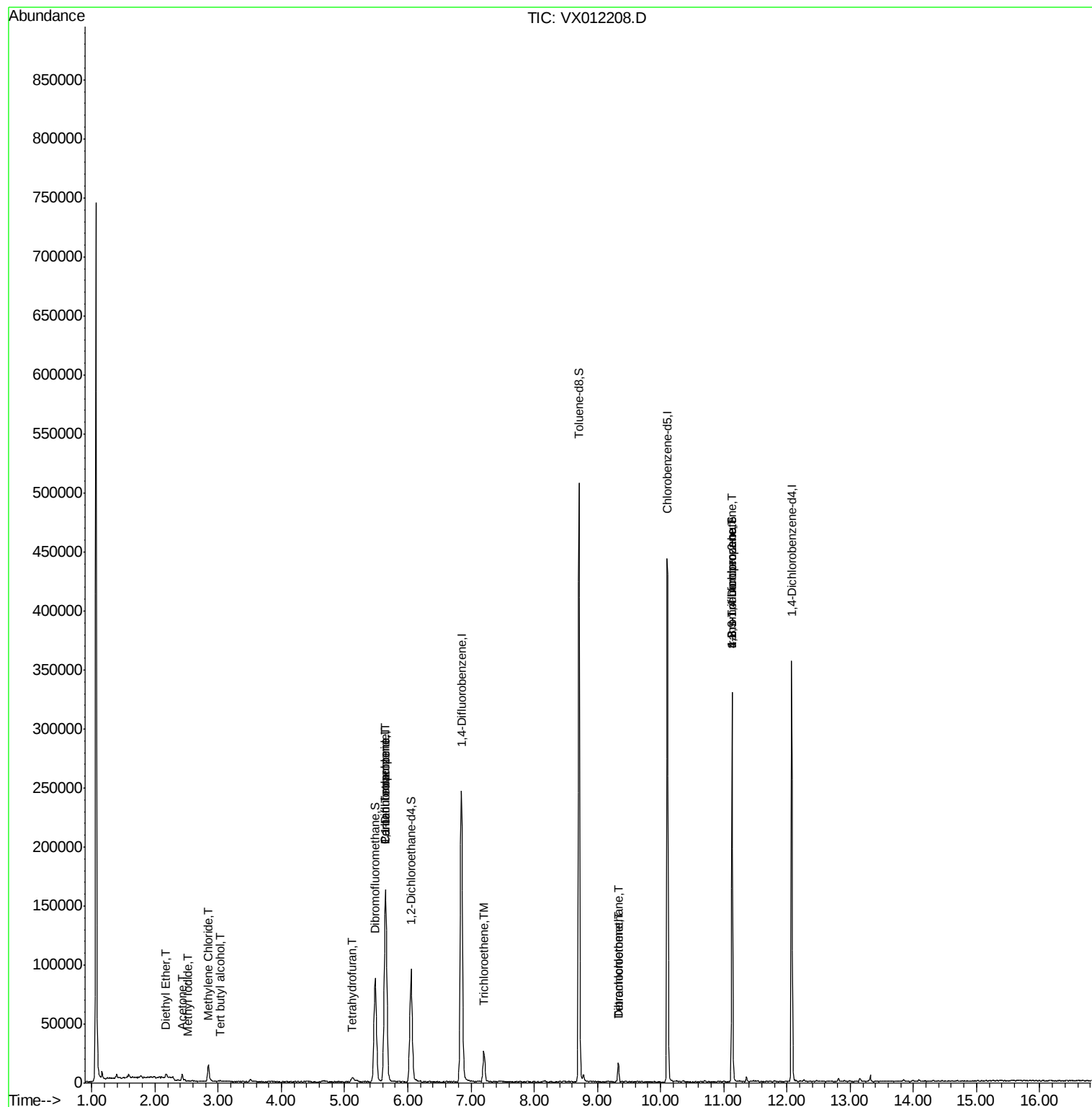
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 2.17  | 74   | 678      | 1.015     | ug/l   | 62     |
| 10) Methyl Iodide              | 2.53  | 142  | 19       | 7.000     | ug/l # | 40     |
| 11) Tert butyl alcohol         | 3.04  | 59   | 892      | 4.805     | ug/l # | 89     |
| 13) Acrolein                   | 2.28  | 56   | 370      | Below Cal | #      | 12     |
| 16) Acetone                    | 2.43  | 43   | 6361     | 13.770    | ug/l   | 93     |
| 20) Methylene Chloride         | 2.84  | 84   | 6583     | 3.549     | ug/l # | 86     |
| 29) Tetrahydrofuran            | 5.12  | 42   | 3987     | 11.254    | ug/l   | 96     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 13079    | 6.193     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 16639    | 7.477     | ug/l # | 13     |
| 44) Trichloroethene            | 7.20  | 130  | 9966     | 6.094     | ug/l   | 85     |
| 60) Dibromochloromethane       | 9.33  | 129  | 2479     | 1.591     | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.33  | 164  | 2418     | 2.030     | ug/l # | 83     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 47880    | 60.566    | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 47880    | 143.186   | ug/l # | 10     |

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

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Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012208.D

Acq: 08 Sep 2019 08:07

Instrument :

MSVOA\_X

ClientSampled :

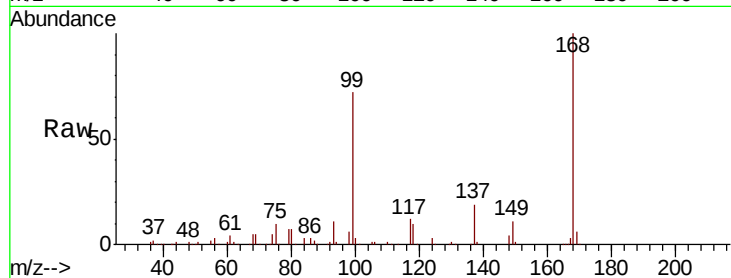
TP-8

Tgt Ion:168 Resp: 140064

Ion Ratio Lower Upper

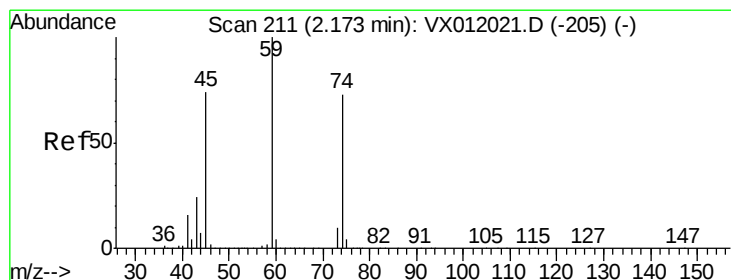
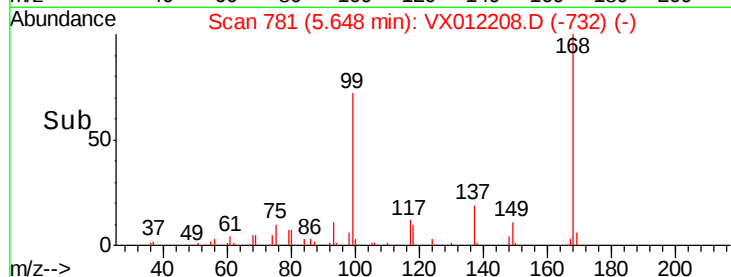
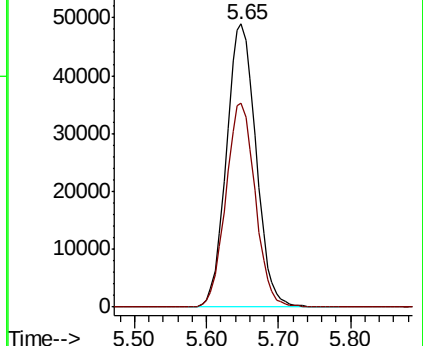
168 100

99 72.2 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 1.015 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012208.D

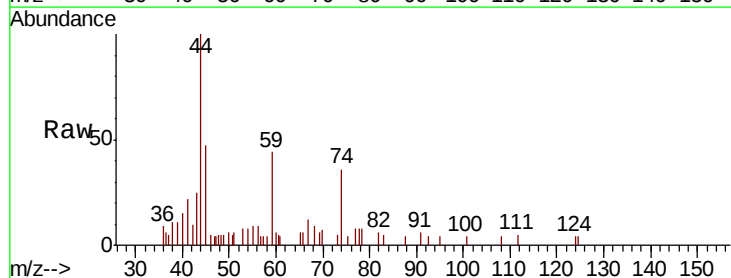
Acq: 08 Sep 2019 08:07

Tgt Ion: 74 Resp: 678

Ion Ratio Lower Upper

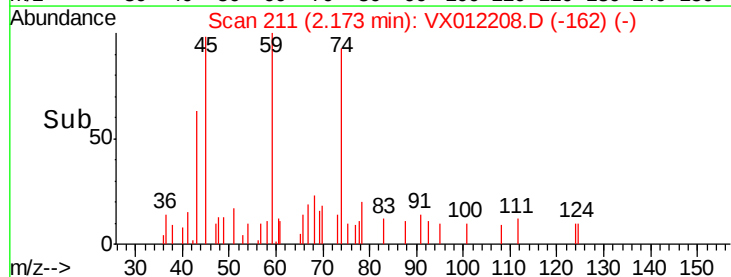
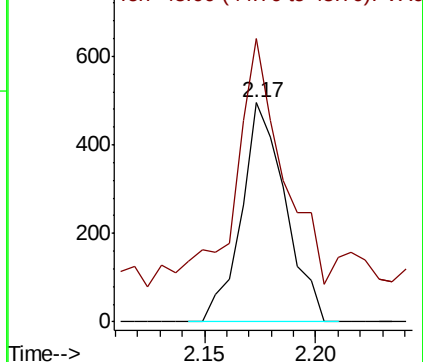
74 100

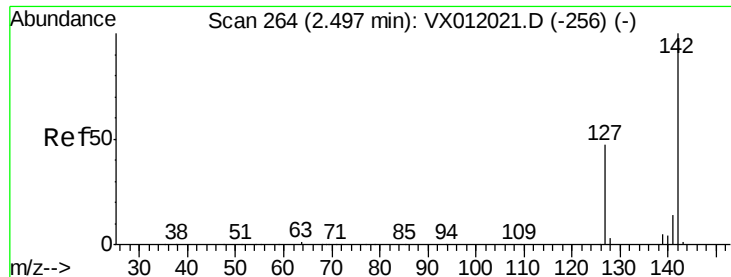
45 128.2 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

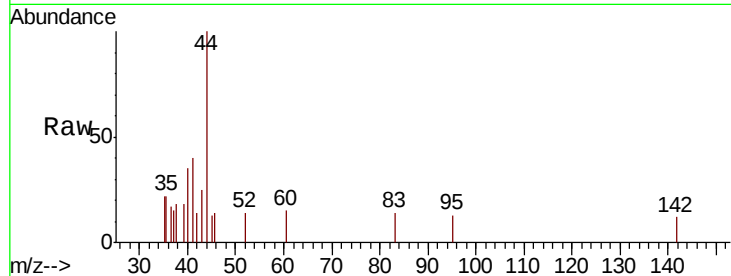




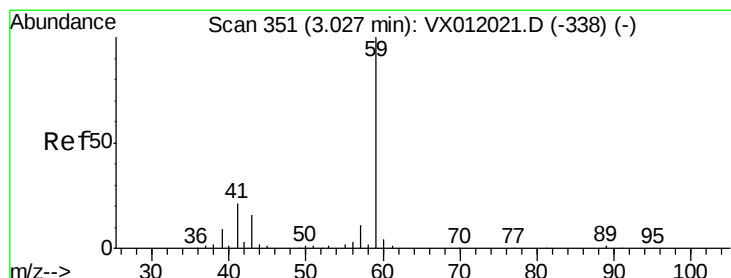
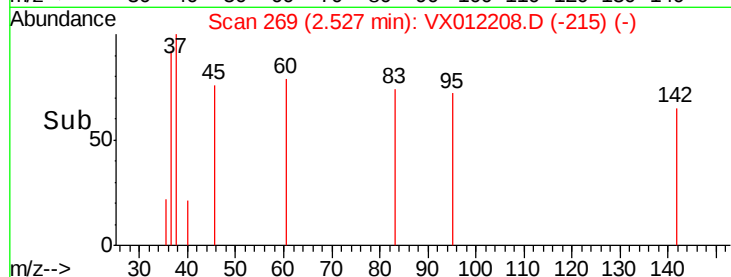
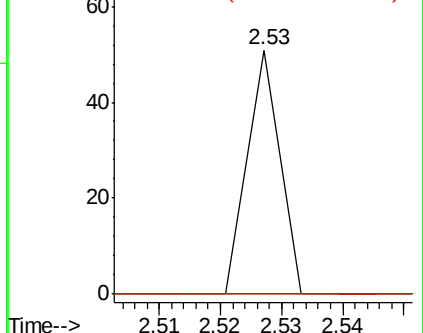
#10  
Methyl Iodide  
Concen: 7.000 ug/l  
RT: 2.53 min Scan# 269  
Delta R.T. 0.03 min  
Lab File: VX012208.D  
Acq: 08 Sep 2019 08:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

Tgt Ion: 142 Resp: 19  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.4 53.2#  
141 0.0 11.4 17.2#

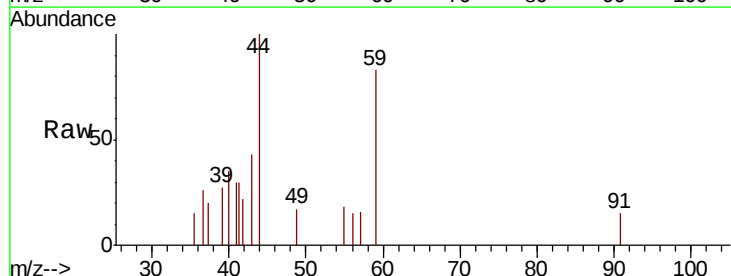


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

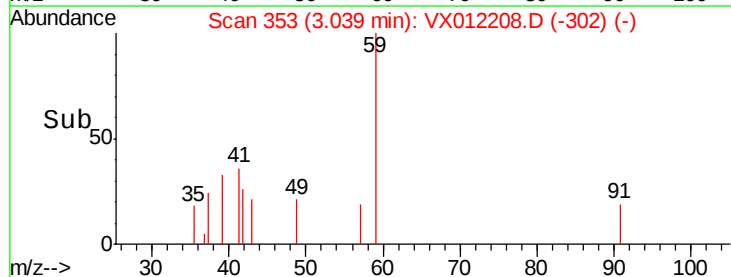
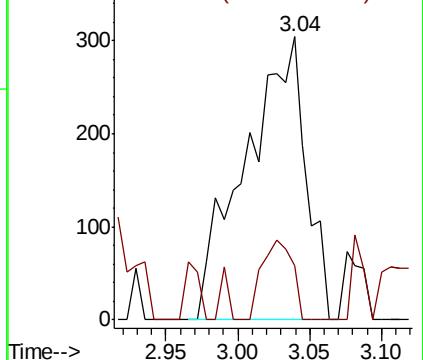


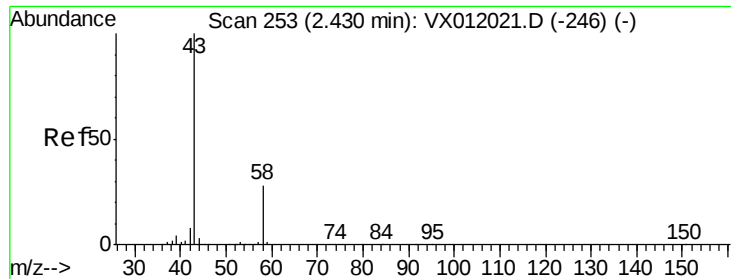
#11  
Tert butyl alcohol  
Concen: 4.805 ug/l  
RT: 3.04 min Scan# 353  
Delta R.T. 0.01 min  
Lab File: VX012208.D  
Acq: 08 Sep 2019 08:07

Tgt Ion: 59 Resp: 892  
Ion Ratio Lower Upper  
59 100  
57 14.1 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 13.770 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012208.D

Acq: 08 Sep 2019 08:07

Instrument :

MSVOA\_X

ClientSampleId :

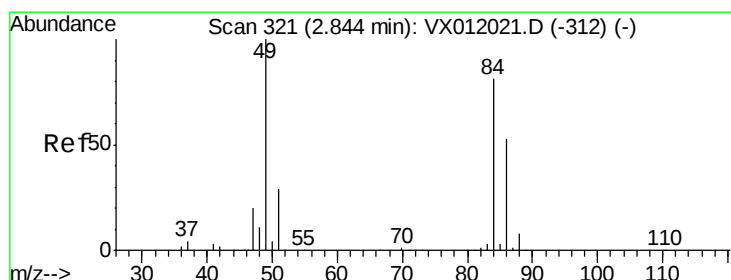
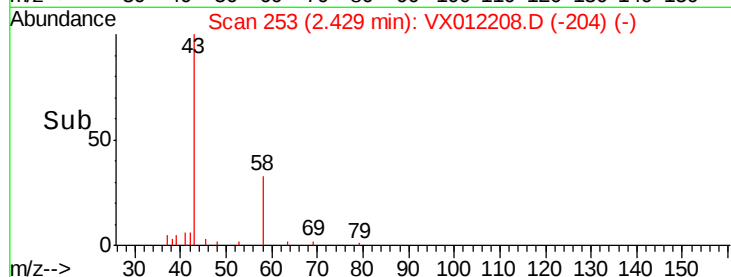
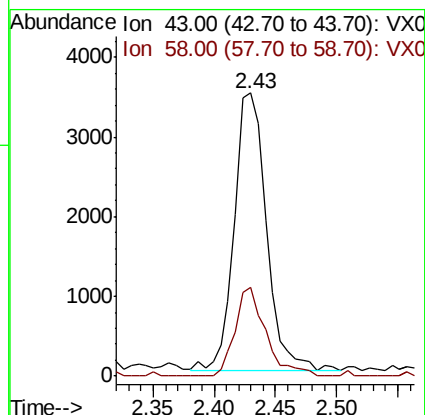
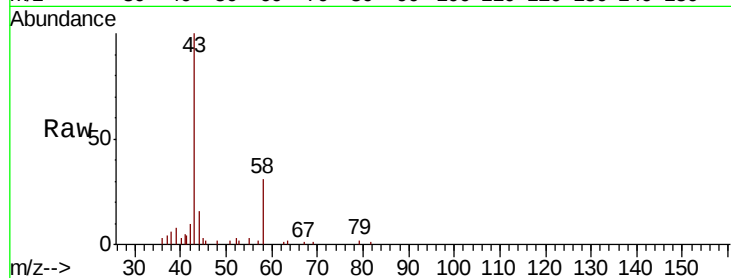
TP-8

Tgt Ion: 43 Resp: 6361

Ion Ratio Lower Upper

43 100

58 32.0 22.8 34.2



#20

Methylene Chloride

Concen: 3.549 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX012208.D

Acq: 08 Sep 2019 08:07

Tgt Ion: 84 Resp: 6583

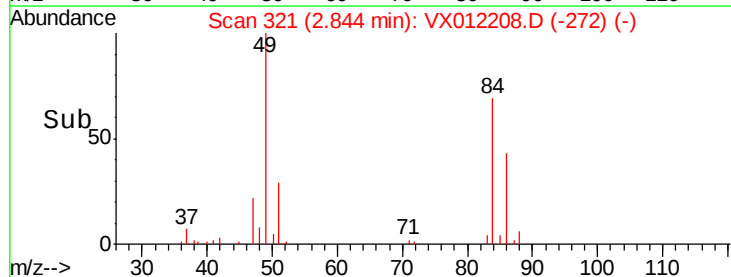
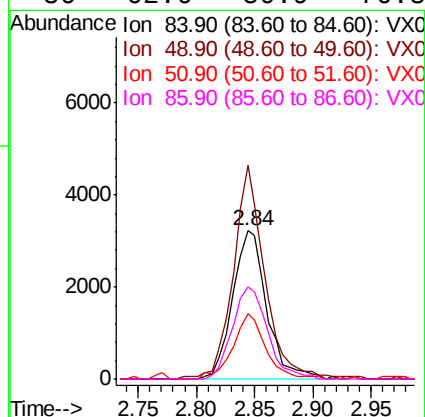
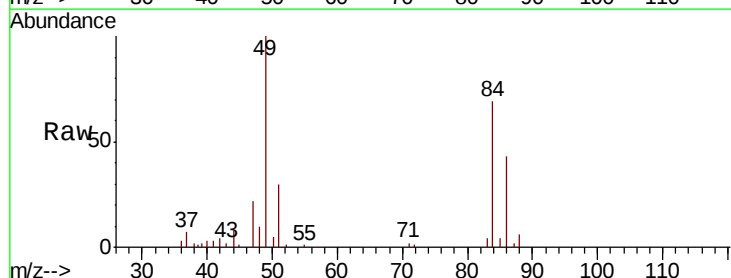
Ion Ratio Lower Upper

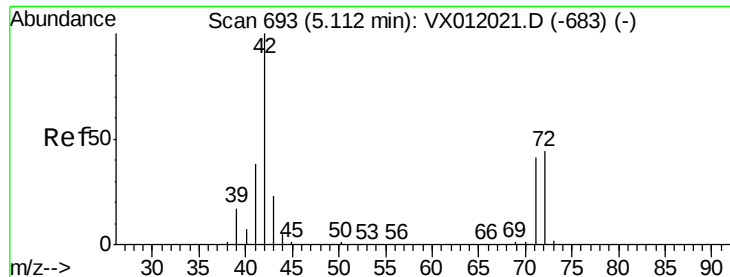
84 100

49 142.8 95.8 143.8

51 43.8 28.6 43.0#

86 62.6 50.9 76.3

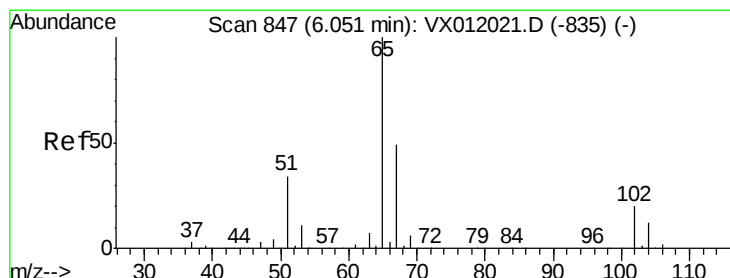
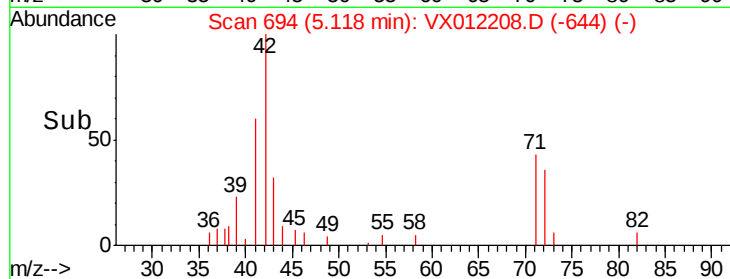
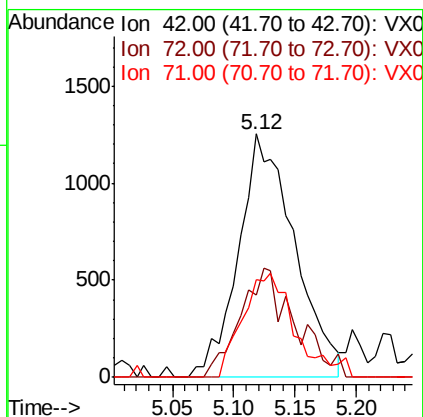
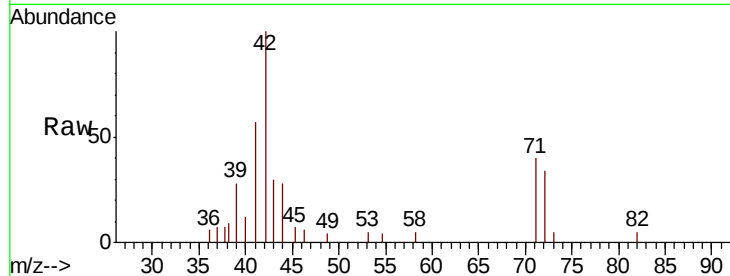




#29  
Tetrahydrofuran  
Concen: 11.254 ug/l  
RT: 5.12 min Scan# 694  
Delta R.T. 0.01 min  
Lab File: VX012208.D  
Acq: 08 Sep 2019 08:07

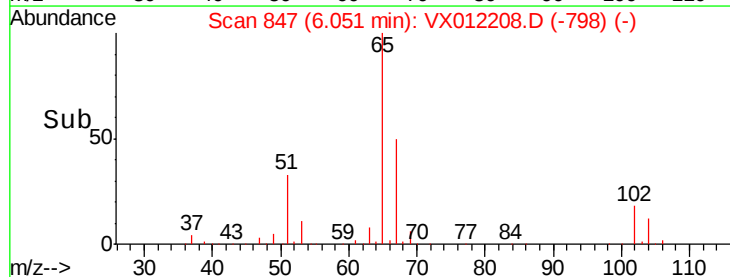
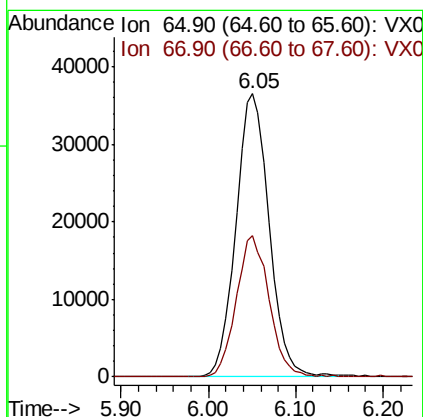
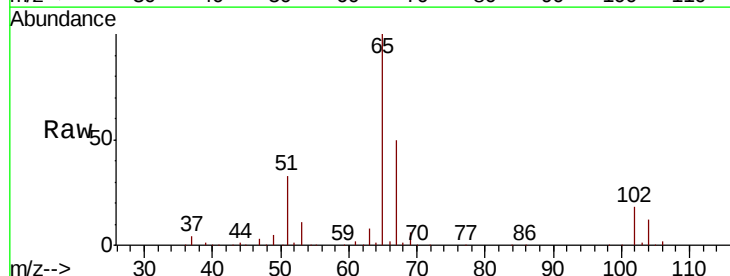
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

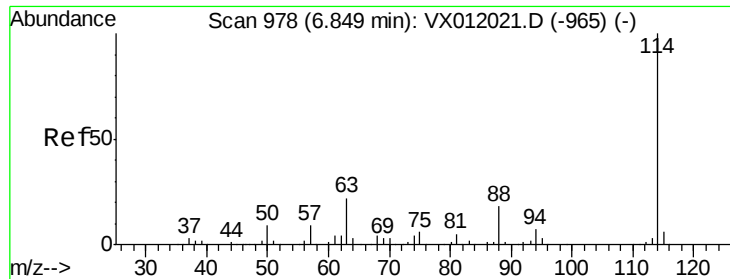
Tgt Ion: 42 Resp: 3987  
Ion Ratio Lower Upper  
42 100  
72 43.8 37.0 55.4  
71 39.9 33.8 50.8



#33  
1,2-Dichloroethane-d4  
Concen: 49.863 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. -0.00 min  
Lab File: VX012208.D  
Acq: 08 Sep 2019 08:07

Tgt Ion: 65 Resp: 96366  
Ion Ratio Lower Upper  
65 100  
67 49.3 0.0 102.0

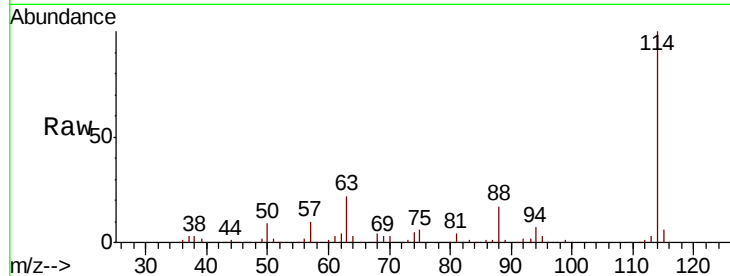




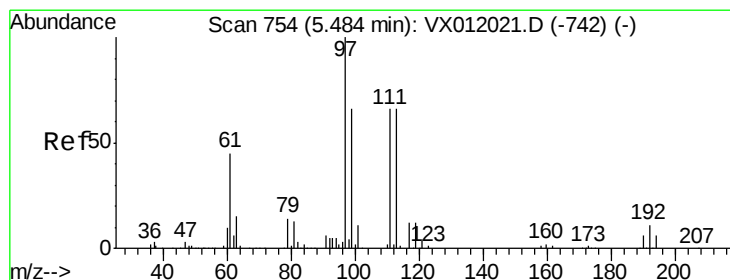
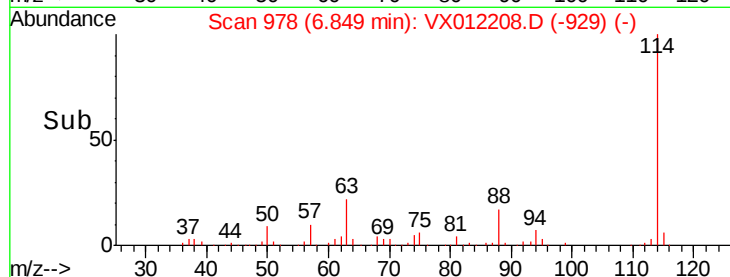
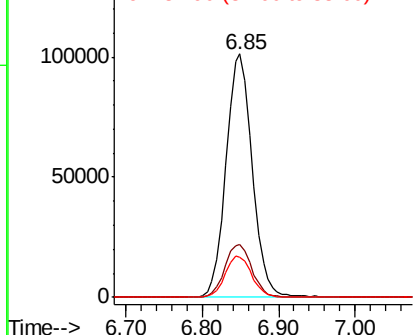
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX012208.D  
 Acq: 08 Sep 2019 08:07

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TP-8

Tgt Ion:114 Resp: 239790  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 37.4  
 88 16.7 0.0 29.6

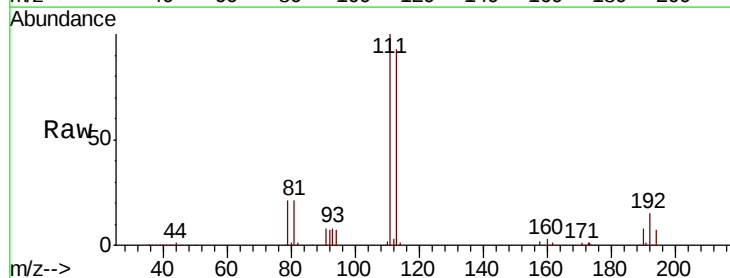


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

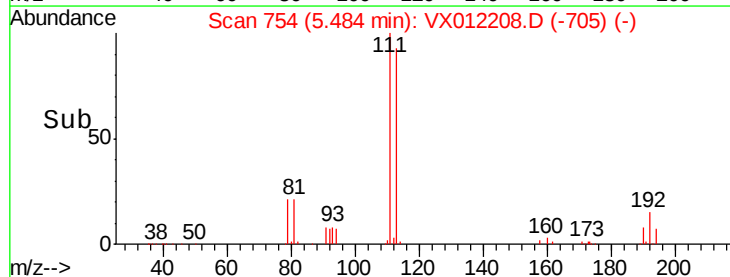
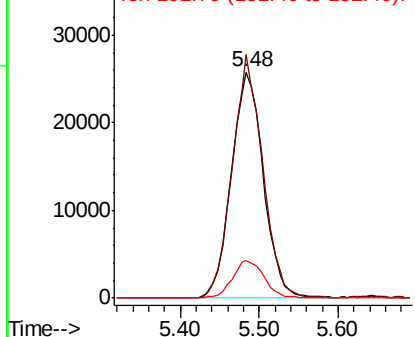


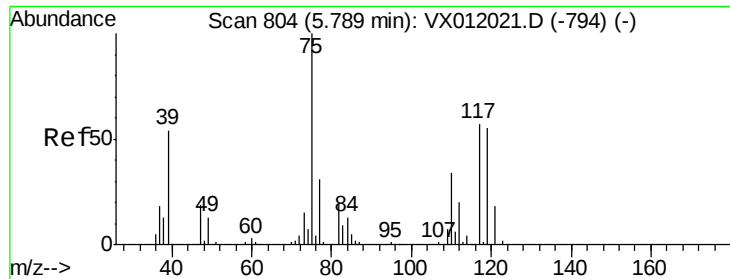
#35  
 Dibromofluoromethane  
 Concen: 49.300 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. -0.00 min  
 Lab File: VX012208.D  
 Acq: 08 Sep 2019 08:07

Tgt Ion:113 Resp: 72700  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 81.7 122.5  
 192 16.6 22.5 33.7#



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

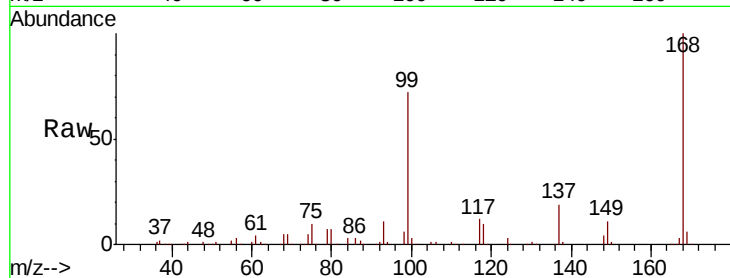




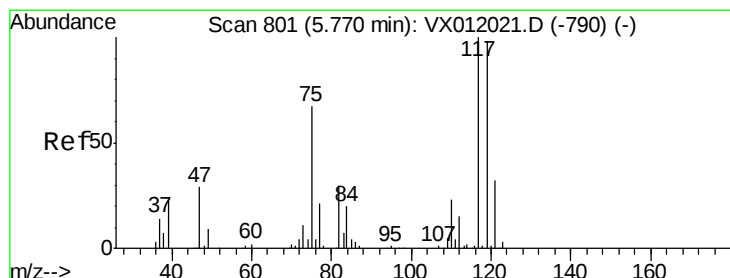
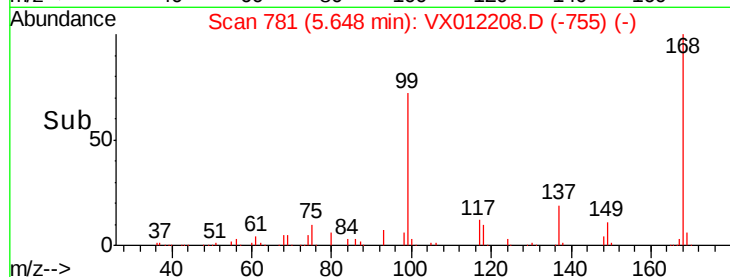
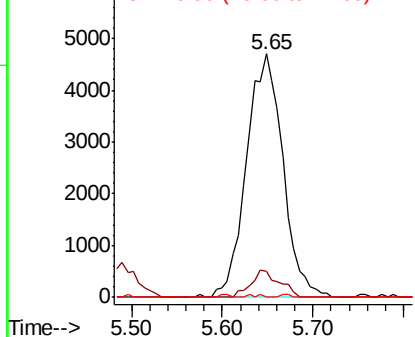
#36  
 1,1-Dichloropropene  
 Concen: 6.193 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX012208.D  
 Acq: 08 Sep 2019 08:07

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-8

Tgt Ion: 75 Resp: 13079  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 19.5 58.5#  
 77 0.3 24.6 37.0#

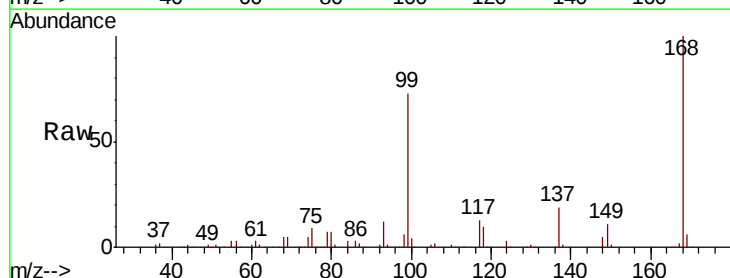


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

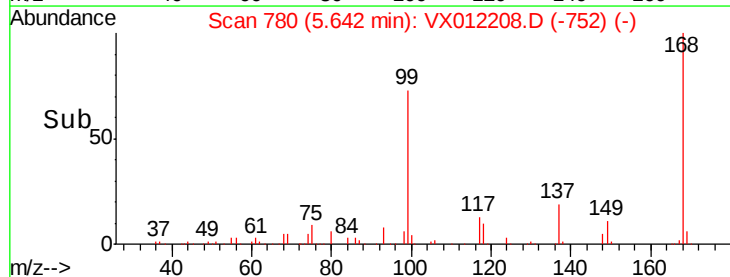
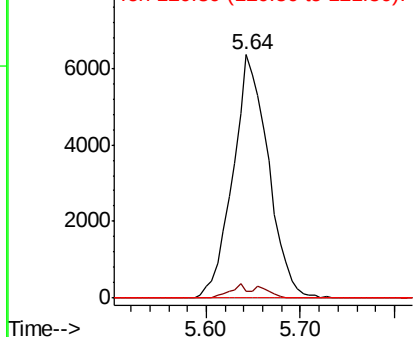


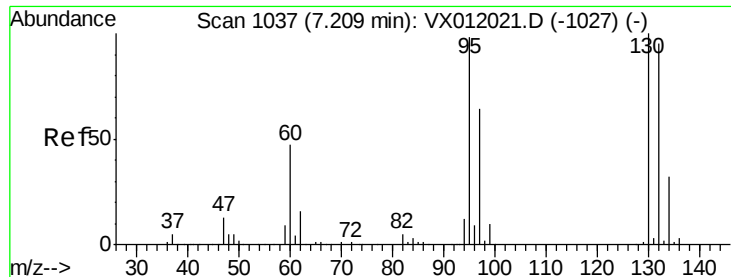
#38  
 Carbon Tetrachloride  
 Concen: 7.477 ug/l  
 RT: 5.64 min Scan# 780  
 Delta R.T. -0.13 min  
 Lab File: VX012208.D  
 Acq: 08 Sep 2019 08:07

Tgt Ion: 117 Resp: 16639  
 Ion Ratio Lower Upper  
 117 100  
 119 2.8 78.3 117.5#  
 121 0.0 24.2 36.2#



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





#44

Trichloroethene

Concen: 6.094 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX012208.D

Acq: 08 Sep 2019 08:07

Instrument :

MSVOA\_X

ClientSampled :

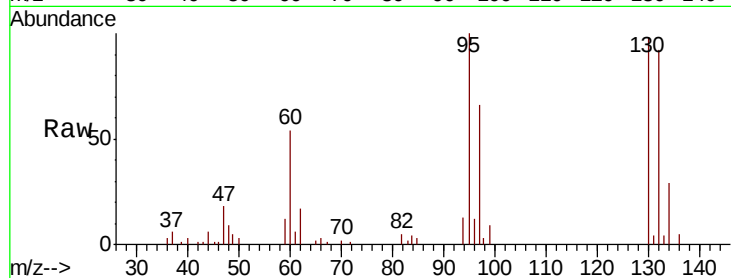
TP-8

Tgt Ion:130 Resp: 9966

Ion Ratio Lower Upper

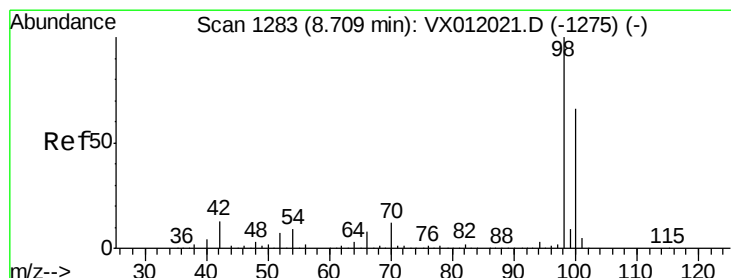
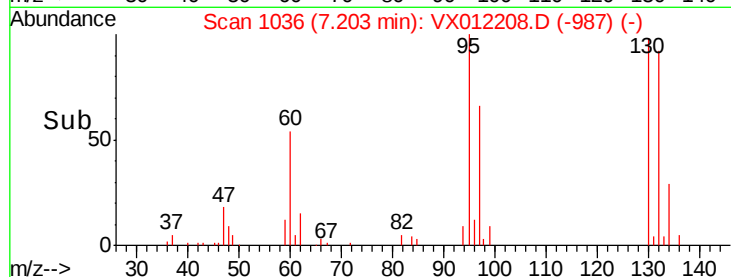
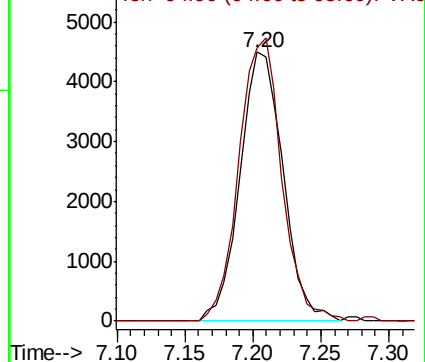
130 100

95 101.7 0.0 176.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 51.457 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012208.D

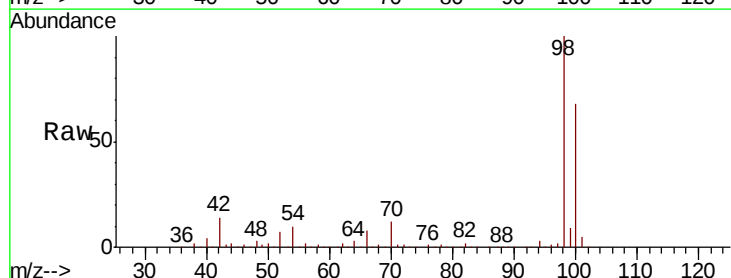
Acq: 08 Sep 2019 08:07

Tgt Ion: 98 Resp: 278449

Ion Ratio Lower Upper

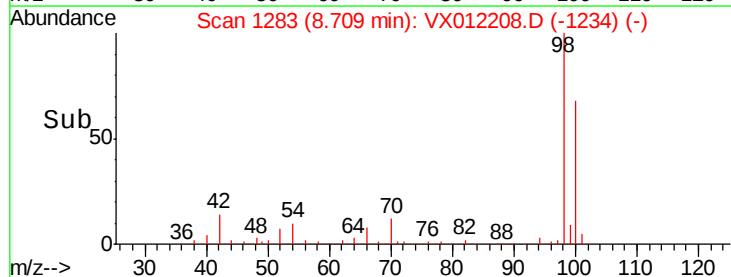
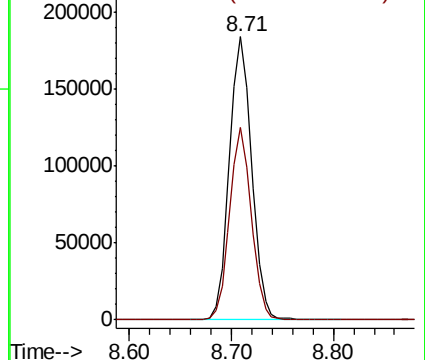
98 100

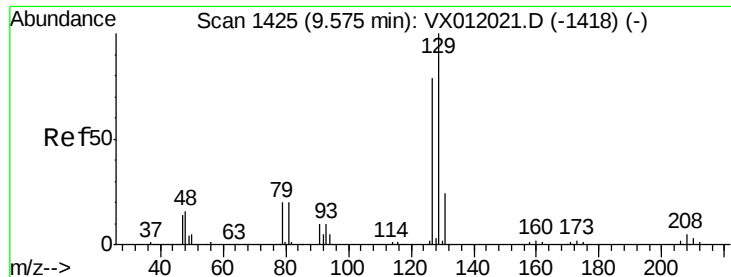
100 66.3 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

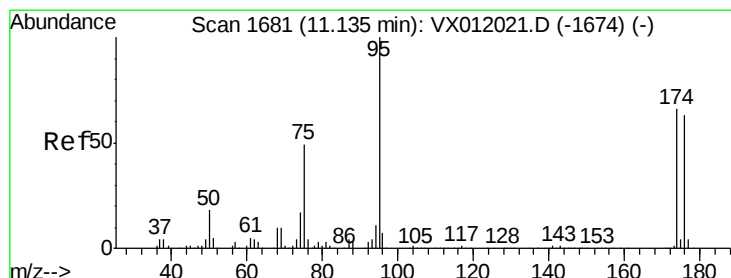
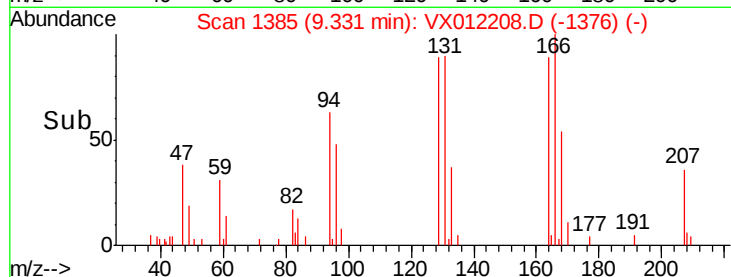
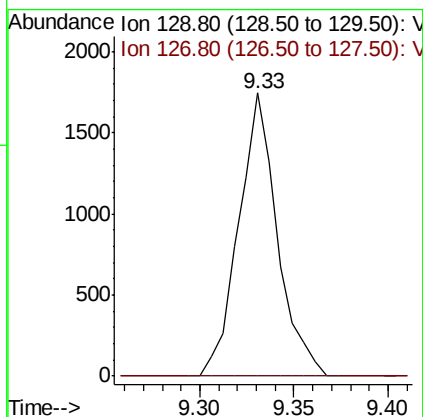
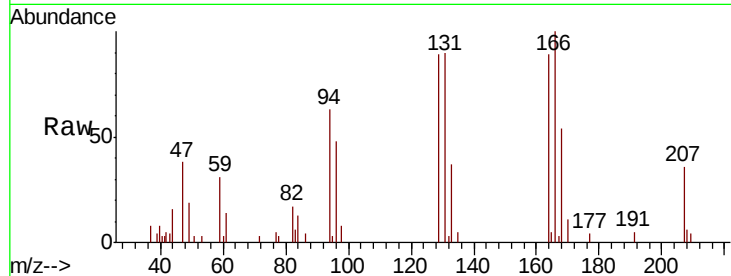




#60  
Dibromochloromethane  
Concen: 1.591 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. -0.24 min  
Lab File: VX012208.D  
Acq: 08 Sep 2019 08:07

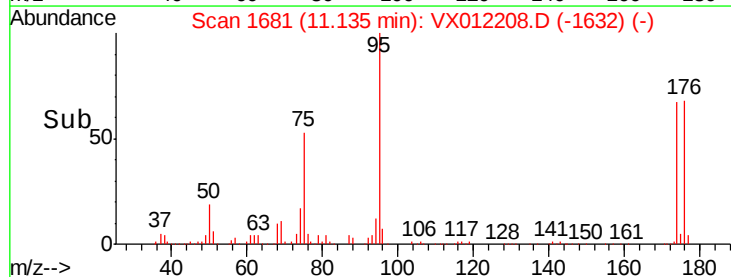
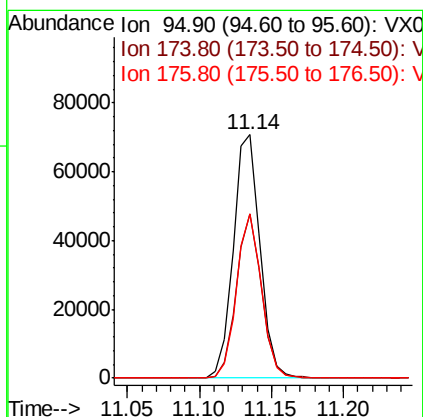
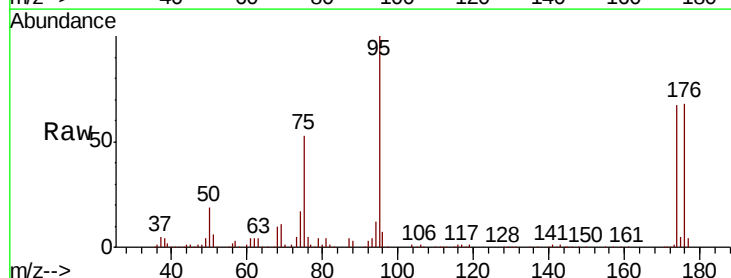
Instrument :  
MSVOA\_X  
ClientSampled :  
TP-8

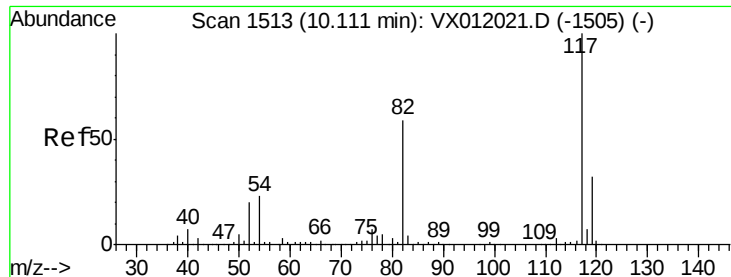
Tgt Ion: 129 Resp: 2479  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.1 114.5#



#62  
4-Bromofluorobenzene  
Concen: 36.573 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. -0.00 min  
Lab File: VX012208.D  
Acq: 08 Sep 2019 08:07

Tgt Ion: 95 Resp: 92039  
Ion Ratio Lower Upper  
95 100  
174 63.4 0.0 205.4  
176 63.1 0.0 201.8

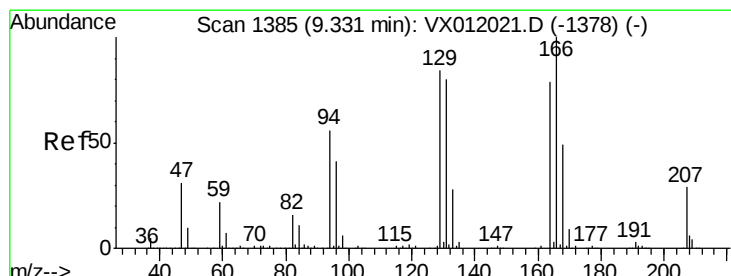
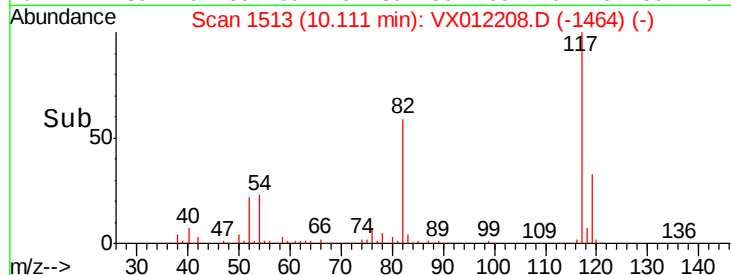
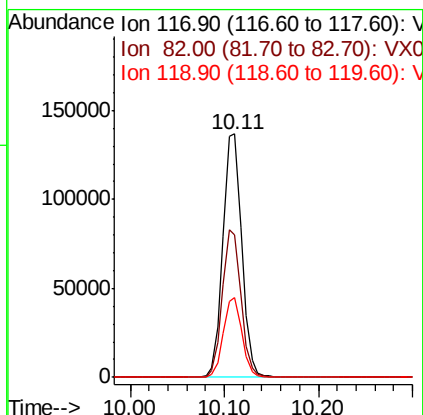
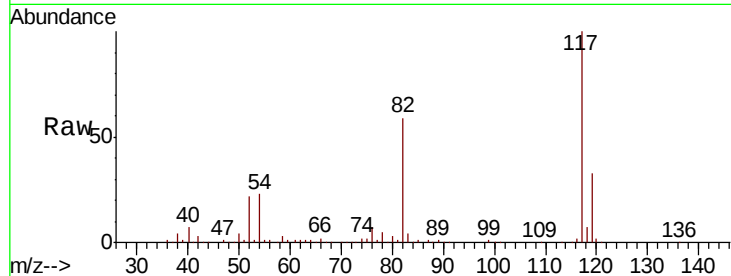




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012208.D  
Acq: 08 Sep 2019 08:07

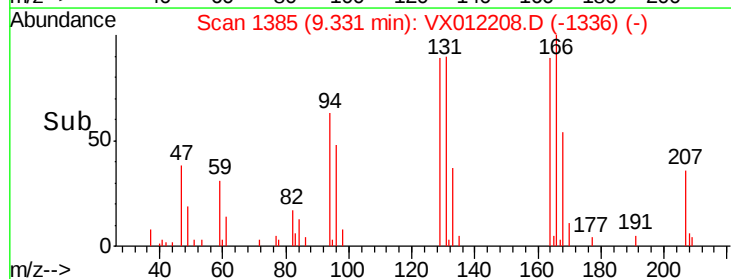
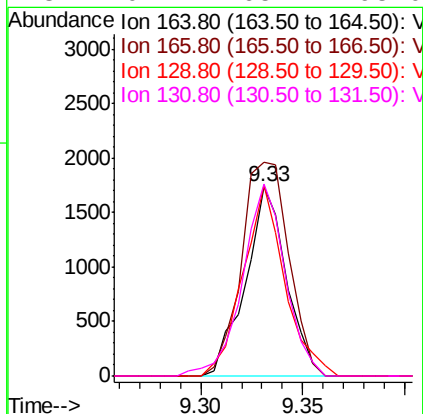
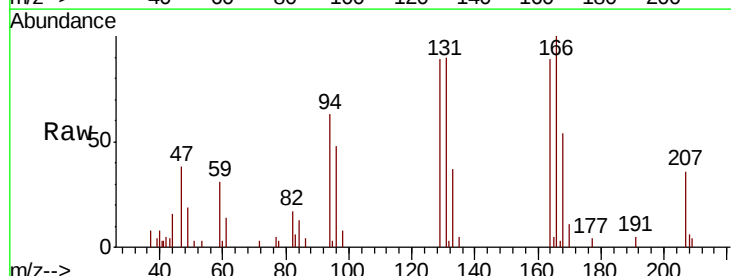
Instrument :  
MSVOA\_X  
ClientSampled :  
TP-8

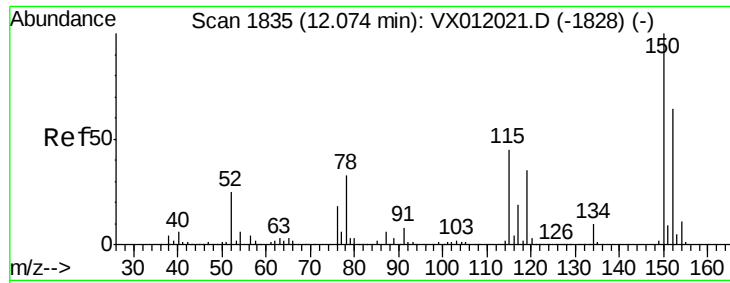
Tgt Ion:117 Resp: 191015  
Ion Ratio Lower Upper  
117 100  
82 58.6 39.4 59.0  
119 32.8 26.1 39.1



#64  
Tetrachloroethene  
Concen: 2.030 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VX012208.D  
Acq: 08 Sep 2019 08:07

Tgt Ion:164 Resp: 2418  
Ion Ratio Lower Upper  
164 100  
166 112.8 104.3 156.5  
129 100.5 68.3 102.5  
131 101.4 65.4 98.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012208.D

Acq: 08 Sep 2019 08:07

Instrument :

MSVOA\_X

ClientSampled :

TP-8

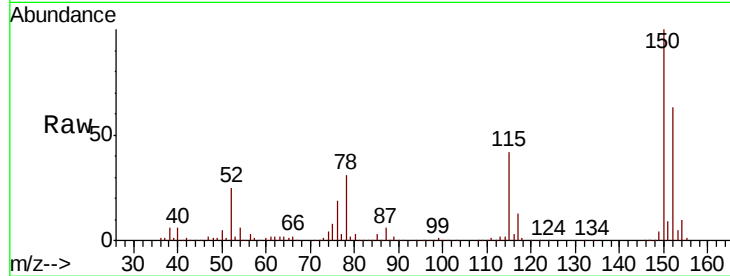
Tgt Ion:152 Resp: 64701

Ion Ratio Lower Upper

152 100

115 67.2 36.4 109.3

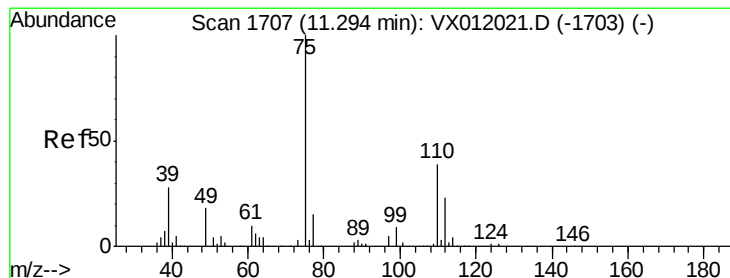
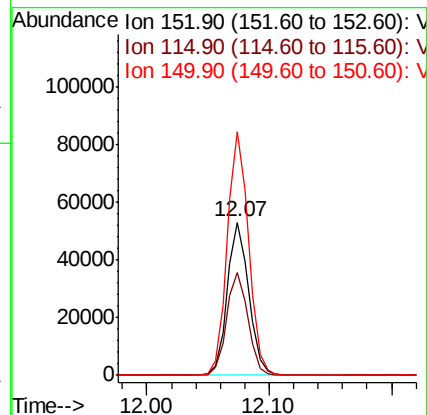
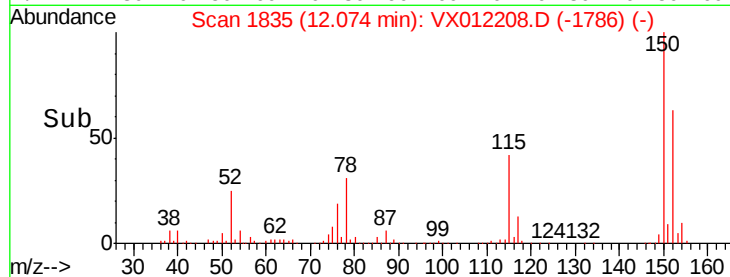
150 157.5 0.0 341.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 60.566 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012208.D

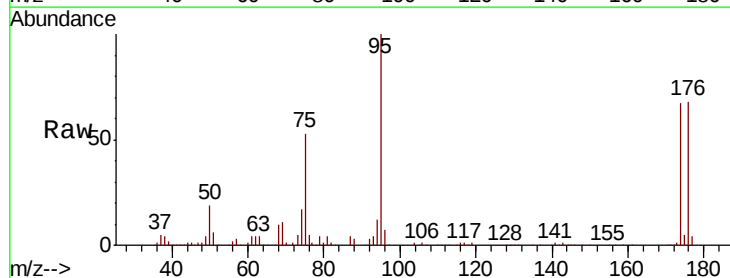
Acq: 08 Sep 2019 08:07

Tgt Ion: 75 Resp: 47880

Ion Ratio Lower Upper

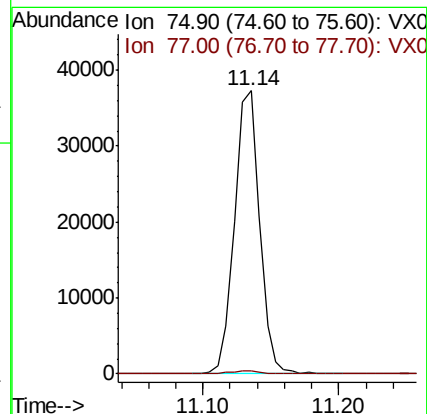
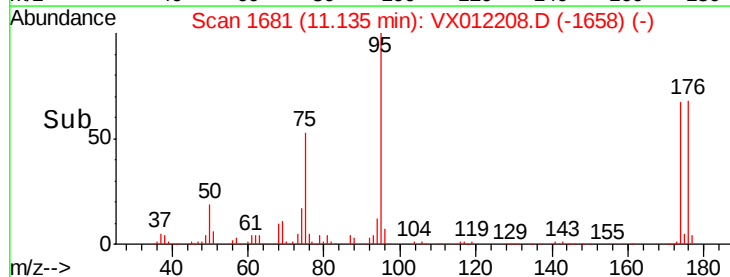
75 100

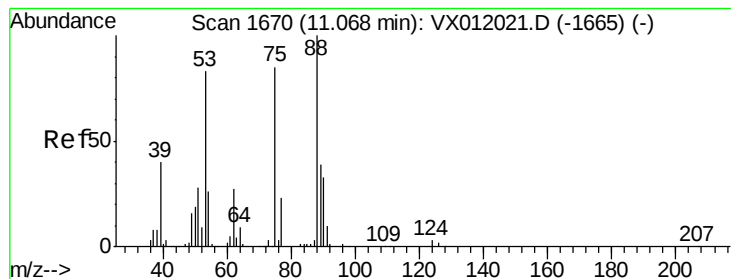
77 1.3 23.5 70.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 143.186 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012208.D

Acq: 08 Sep 2019 08:07

Instrument :

MSVOA\_X

ClientSampleId :

TP-8

Tgt Ion: 75 Resp: 47880

Ion Ratio Lower Upper

75 100

53 0.0 78.6 117.8#

89 0.0 38.8 58.2#

