

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\  
 Data File : VX009794.D  
 Acq On : 22 May 2019 11:06  
 Operator : JC/SP  
 Sample : VX0522WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 23 07:13:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 174133   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 278174   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 247209   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 105764   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 119055   | 50.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.16% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 86309    | 49.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.72%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 351220   | 49.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.50%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 116962   | 45.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.18%  |          |

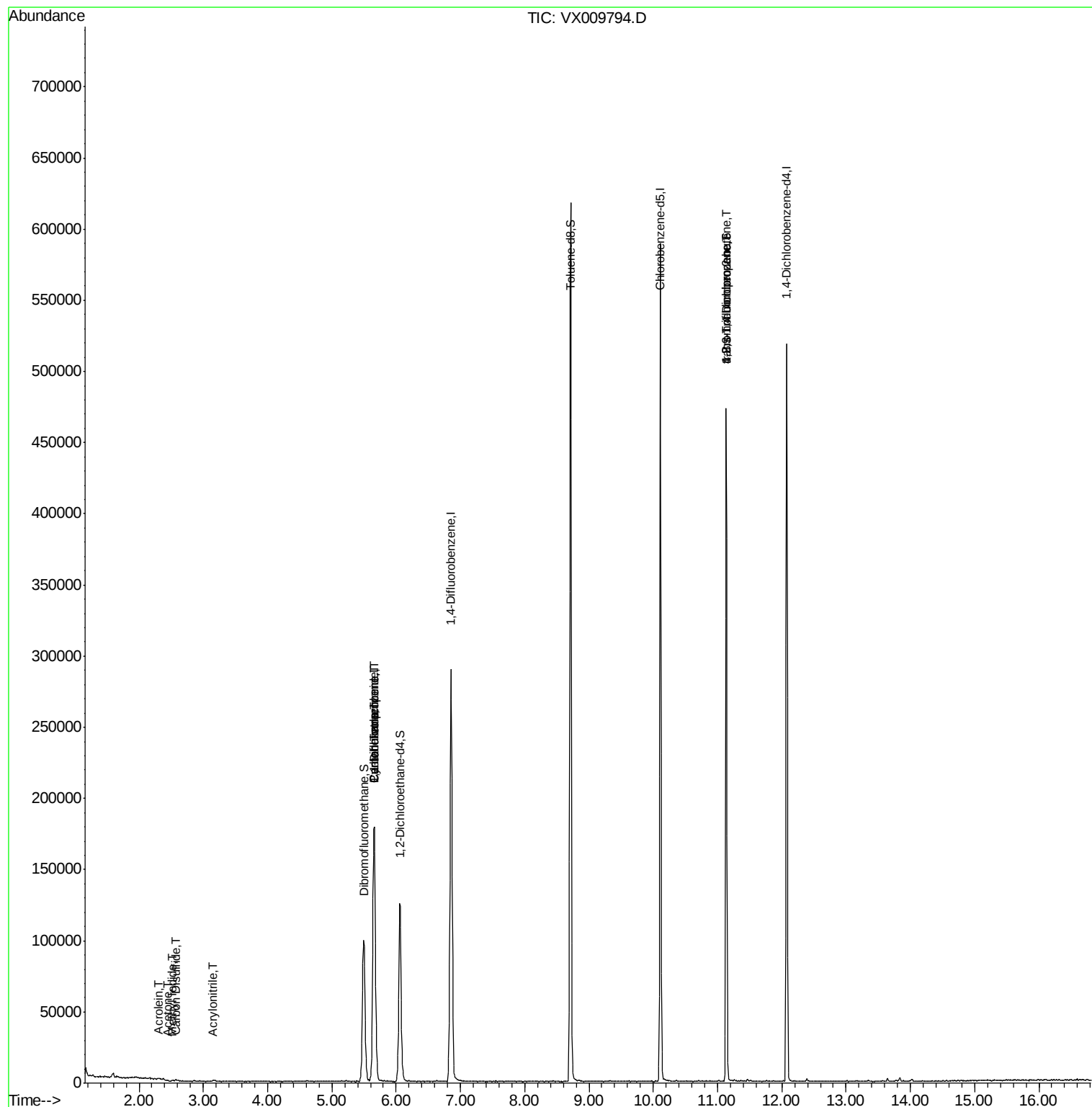
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 2.51  | 142  | 289      | 4.732     | ug/l # | 66     |
| 13) Acrolein                   | 2.29  | 56   | 296      | 0.594     | ug/l # | 34     |
| 15) Acrylonitrile              | 3.14  | 53   | 408      | 0.303     | ug/l # | 80     |
| 16) Acetone                    | 2.45  | 43   | 672      | 0.526     | ug/l # | 79     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1053     | 0.230     | ug/l # | 88     |
| 28) Bromochloromethane         | 4.99  | 49   | 22       | Below Cal | #      | 20     |
| 31) Cyclohexane                | 5.65  | 56   | 3868     | 1.101     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 13545    | 5.240     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 16323    | 6.950     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 60684    | 24.735    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 60684    | 63.289    | ug/l # | 10     |

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

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Operator : JC/SP  
Sample : VX0522WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :

Quant Time: May 23 07:13:13 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

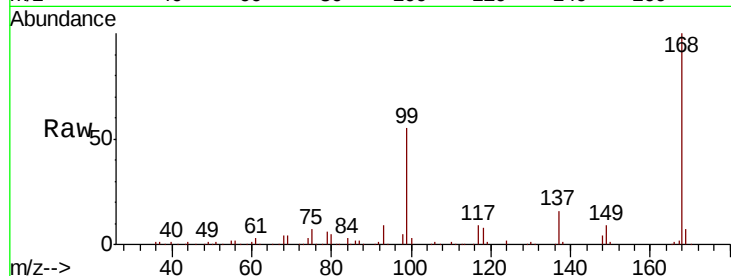
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:168 Resp: 174133

Ion Ratio Lower Upper

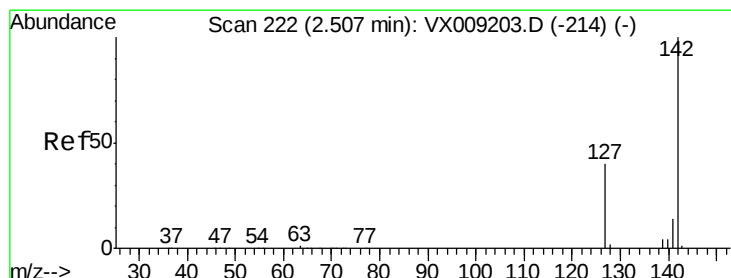
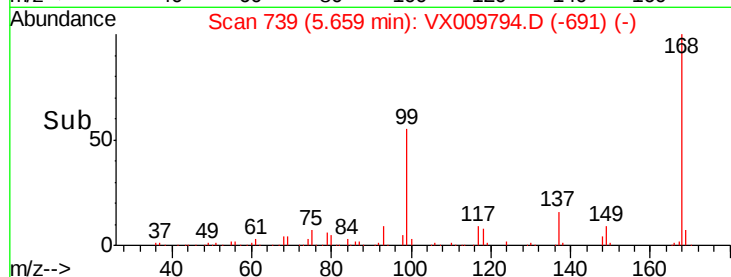
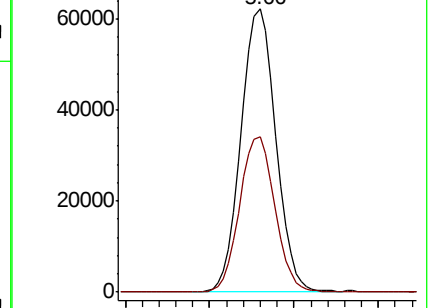
168 100

99 54.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#10

Methyl Iodide

Concen: 4.732 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

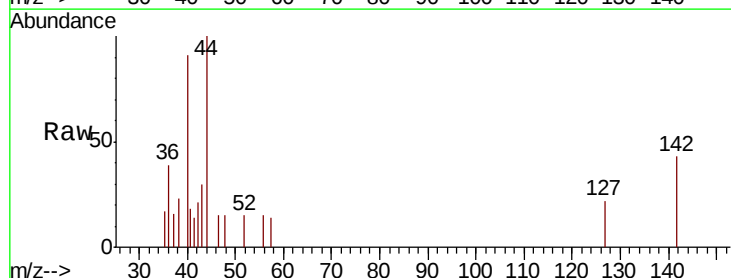
Tgt Ion:142 Resp: 289

Ion Ratio Lower Upper

142 100

127 61.9 32.7 49.1#

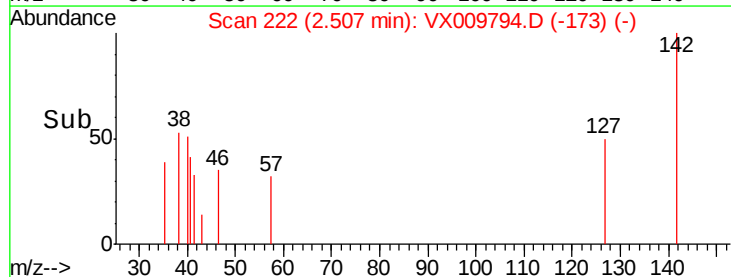
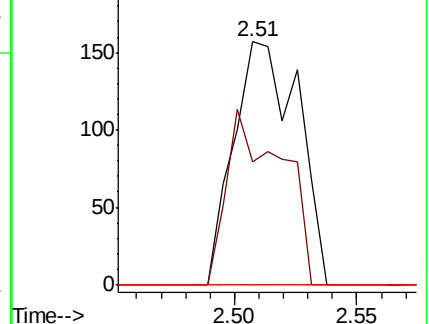
141 0.0 11.5 17.3#

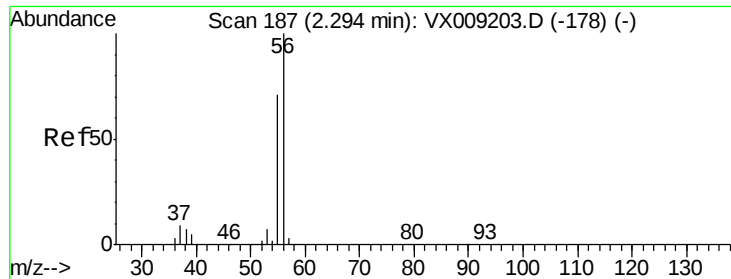


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 0.594 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

Instrument :

MSVOA\_X

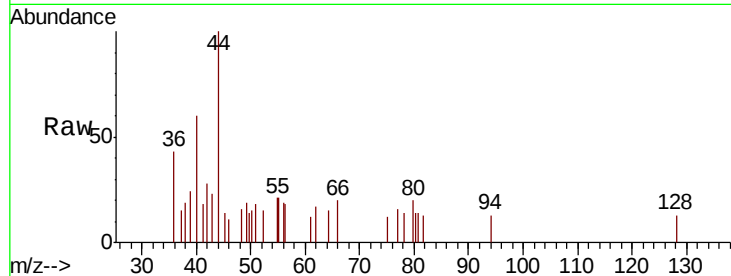
ClientSampled :

Tot Ion: 56 Resp: 296

Ion Ratio Lower Upper

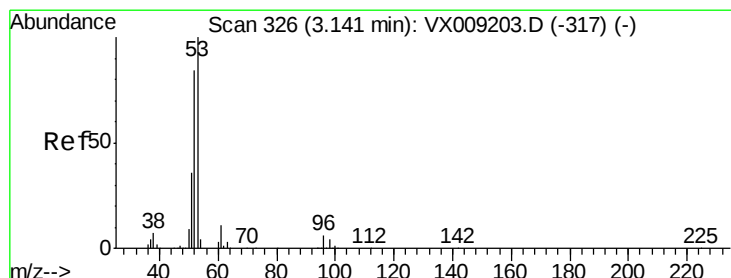
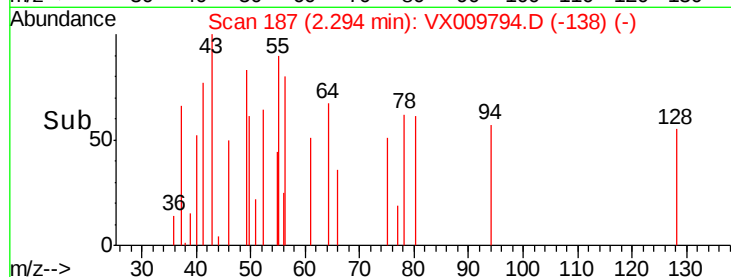
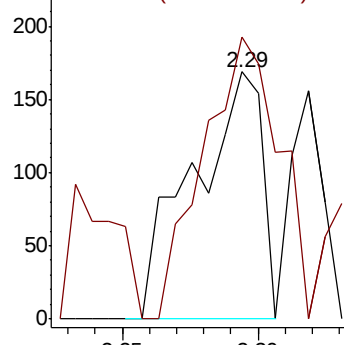
56 100

55 125.7 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.303 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

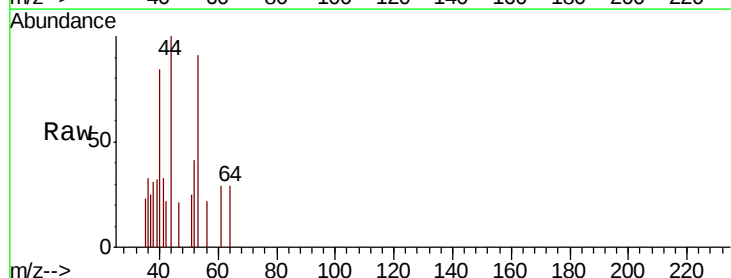
Tgt Ion: 53 Resp: 408

Ion Ratio Lower Upper

53 100

52 97.1 66.9 100.3

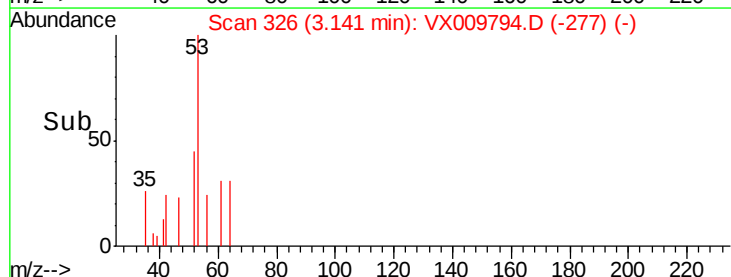
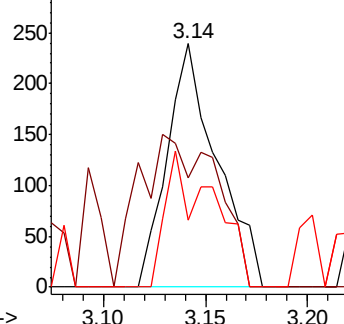
51 52.9 28.2 42.2#

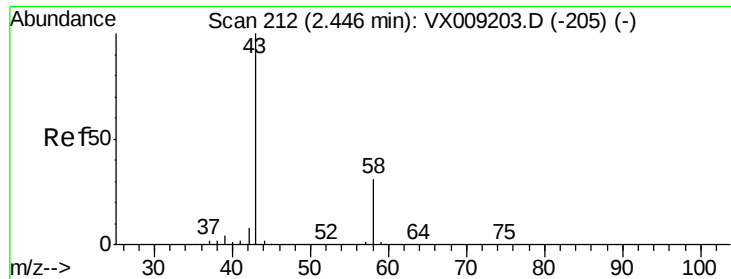


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.526 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

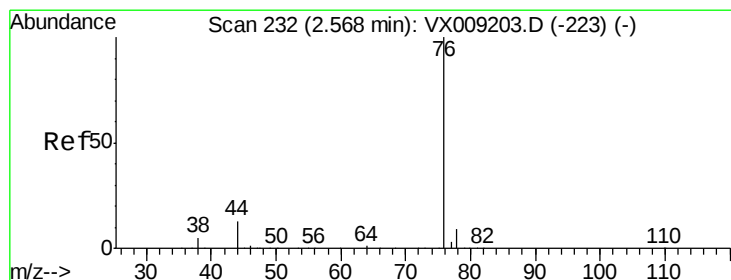
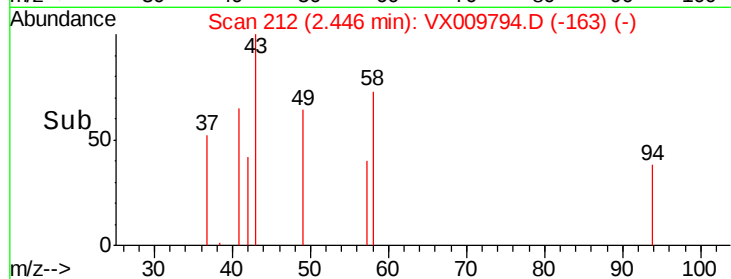
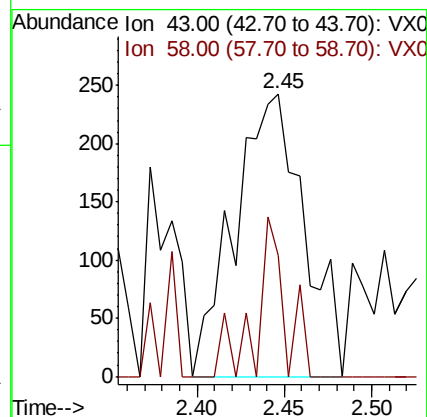
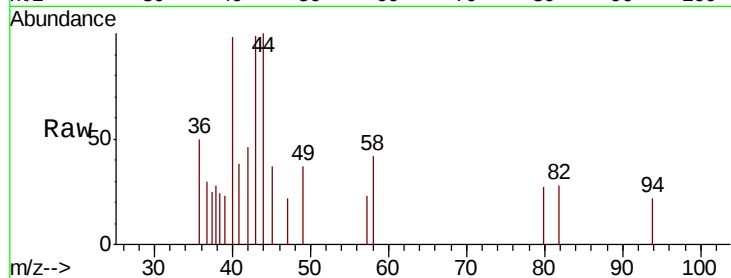
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 43 Resp: 672

Ion Ratio Lower Upper

43 100

58 42.8 24.9 37.3#



#17

Carbon Disulfide

Concen: 0.230 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009794.D

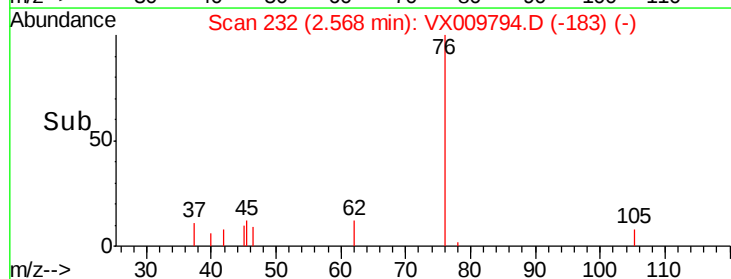
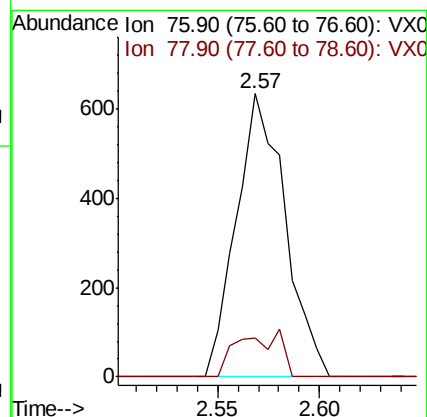
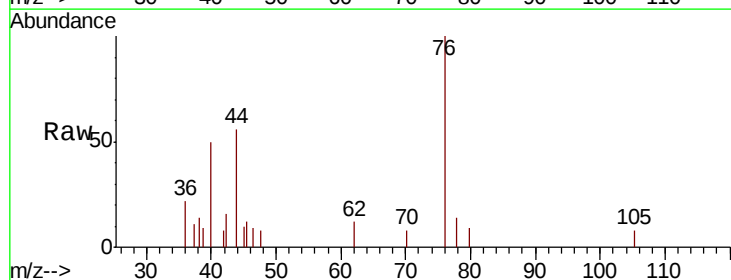
Acq: 22 May 2019 11:06

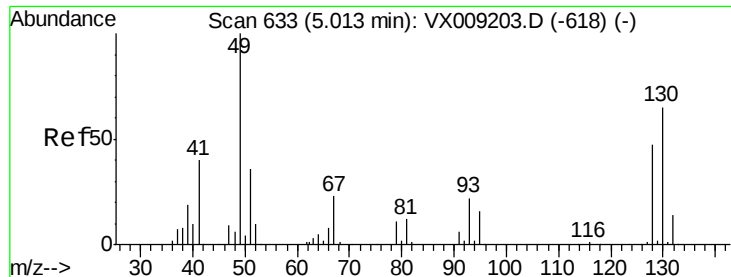
Tgt Ion: 76 Resp: 1053

Ion Ratio Lower Upper

76 100

78 13.6 7.4 11.0#





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

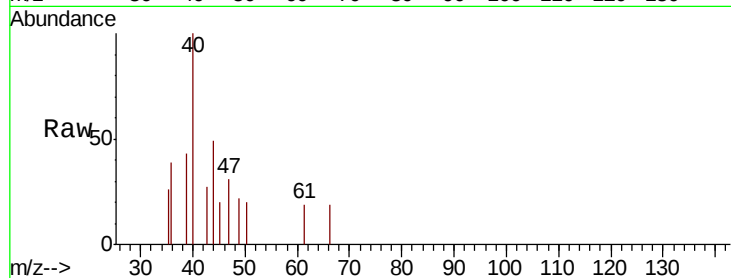
Lab File: VX009794.D

Acq: 22 May 2019 11:06

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 49 Resp: 22

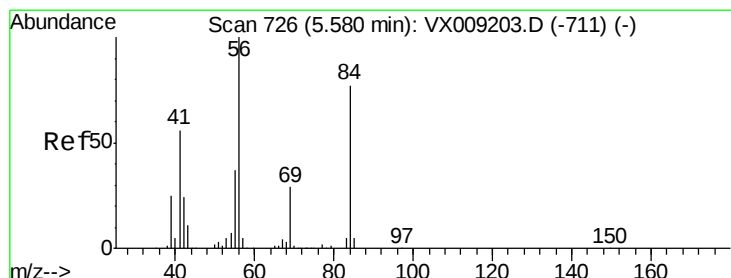
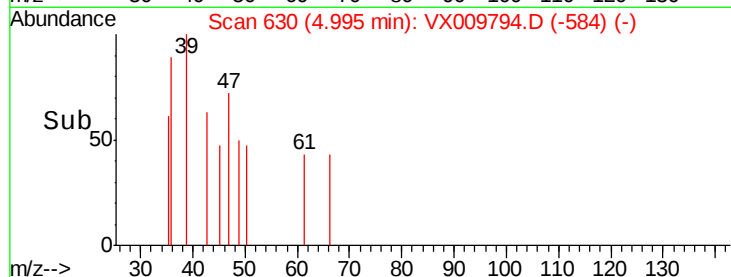
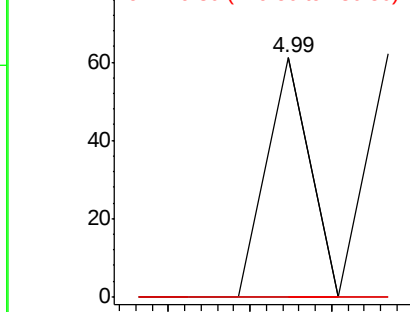
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 129 | 0.0   | 0.0   | 3.8   |
| 130 | 0.0   | 51.2  | 76.8# |



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.101 ug/l

RT: 5.65 min Scan# 738

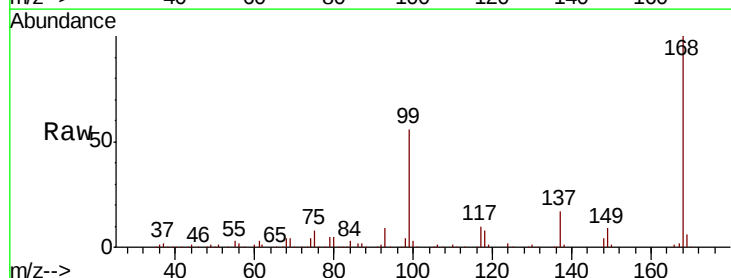
Delta R.T. 0.07 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

Tgt Ion: 56 Resp: 3868

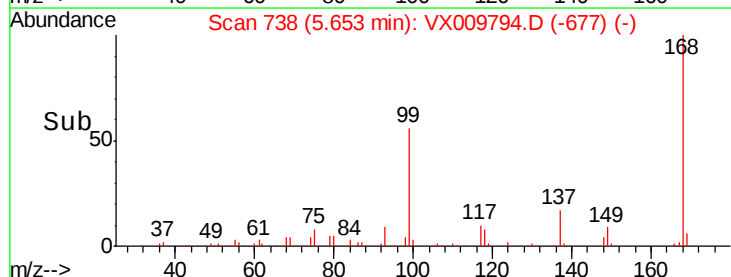
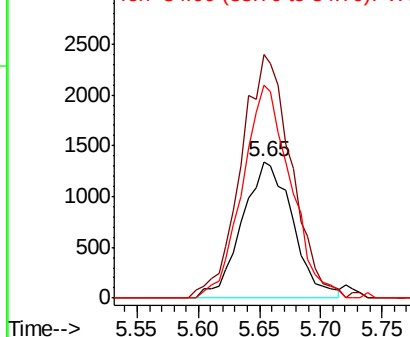
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 178.2 | 23.4  | 35.0# |
| 84  | 155.8 | 61.9  | 92.9# |

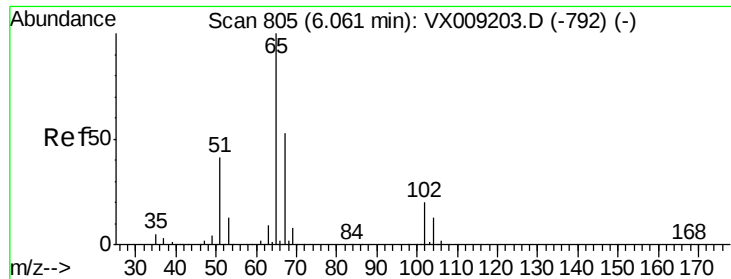


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.084 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

Instrument :

MSVOA\_X

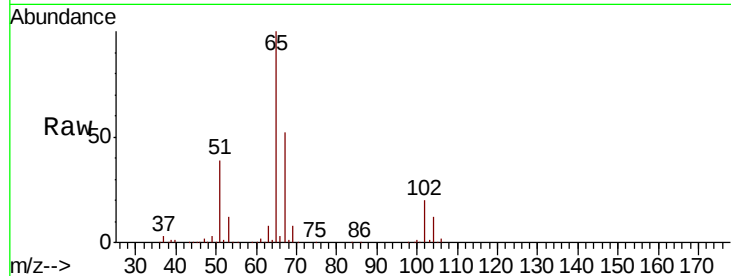
ClientSampled :

Tot Ion: 65 Resp: 119055

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

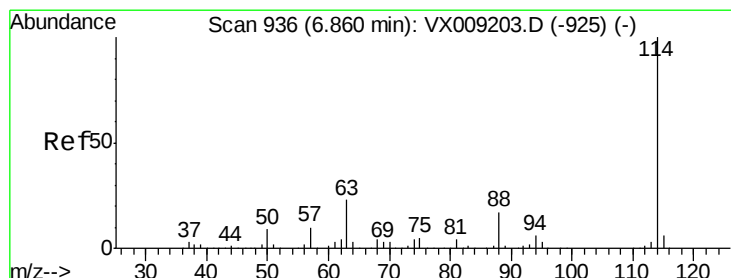
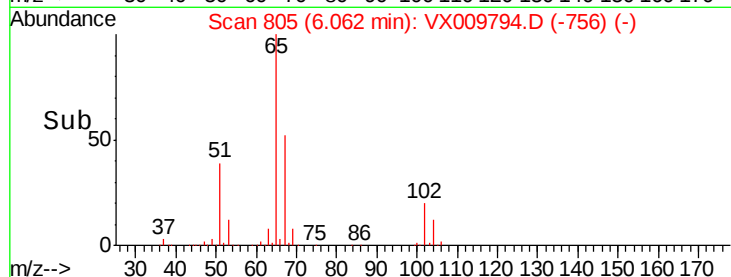
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

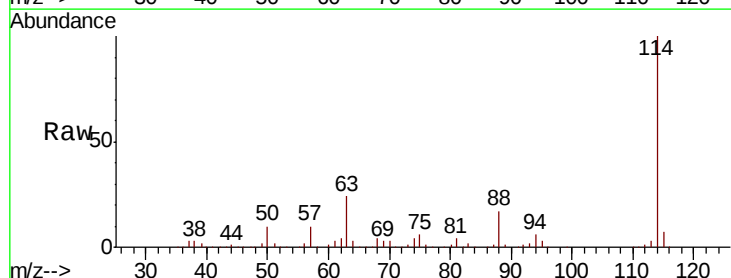
Tgt Ion: 114 Resp: 278174

Ion Ratio Lower Upper

114 100

63 23.6 0.0 45.6

88 16.7 0.0 33.2



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

6.85

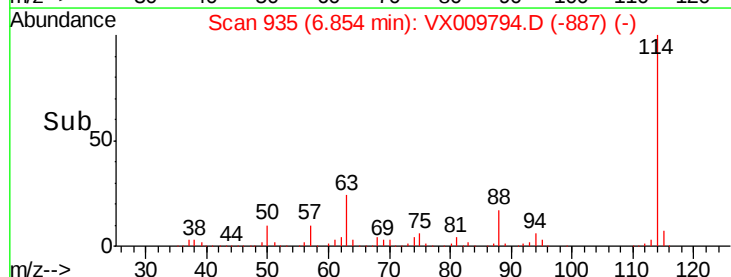
150000

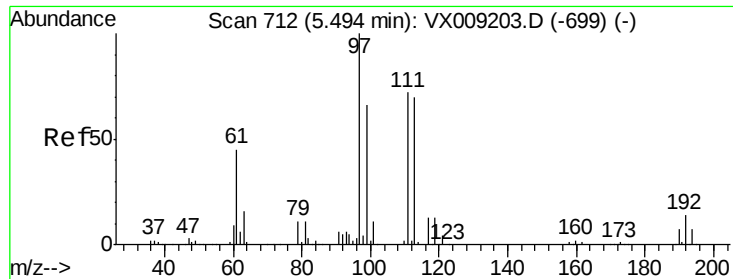
100000

50000

0

Time--> 6.80 6.90 7.00

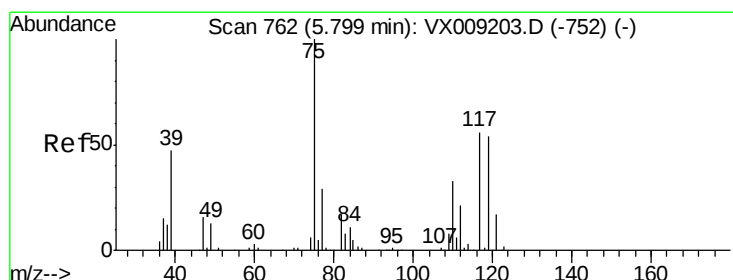
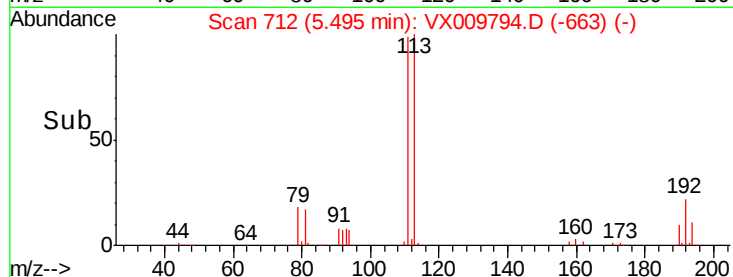
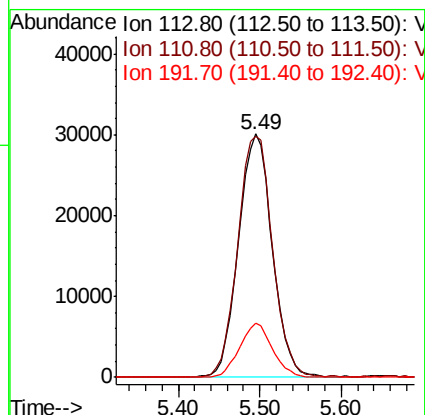
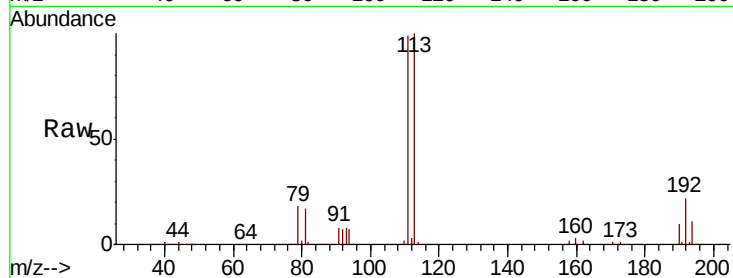




#35  
 Dibromofluoromethane  
 Concen: 49.356 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. 0.00 min  
 Lab File: VX009794.D  
 Acq: 22 May 2019 11:06

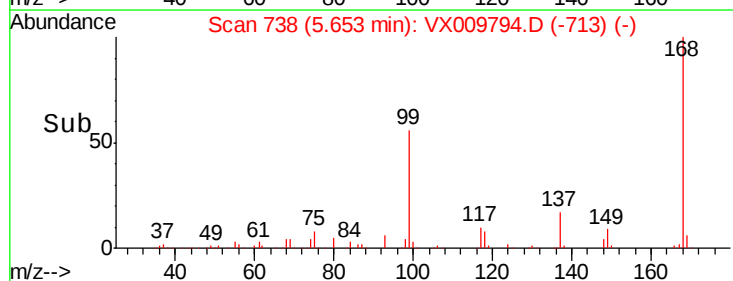
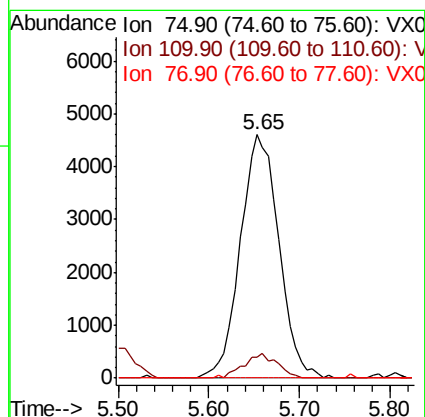
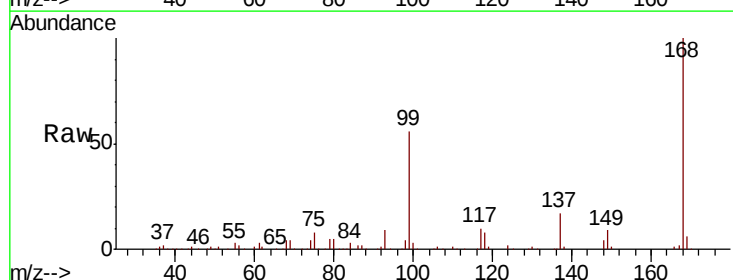
Instrument :  
 MSVOA\_X  
 ClientSampleId :

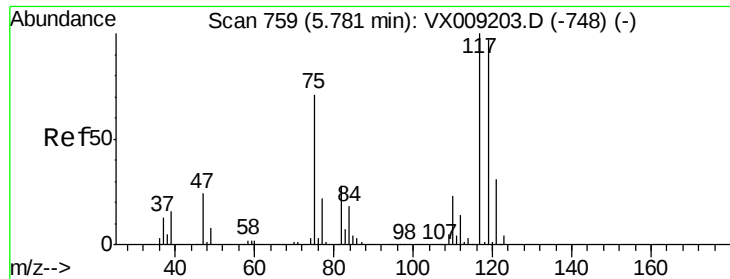
Tot Ion:113 Resp: 86309  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 82.8 124.2  
 192 21.6 17.0 25.6



#36  
 1,1-Dichloropropene  
 Concen: 5.240 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. -0.15 min  
 Lab File: VX009794.D  
 Acq: 22 May 2019 11:06

Tgt Ion: 75 Resp: 13545  
 Ion Ratio Lower Upper  
 75 100  
 110 8.6 16.9 50.6#  
 77 0.0 24.8 37.2#

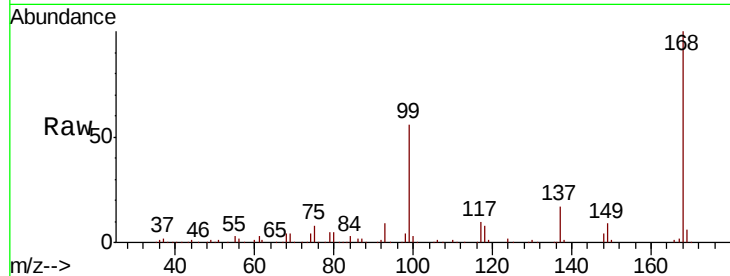




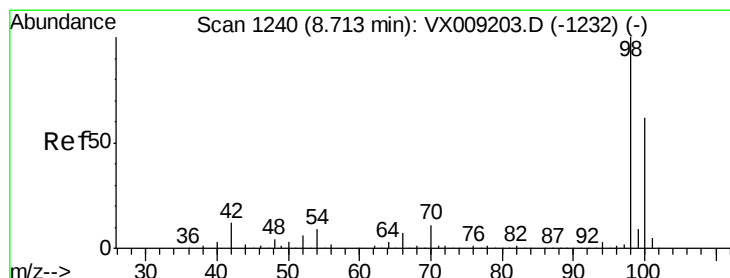
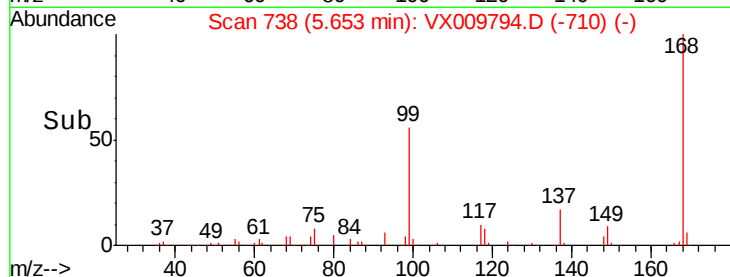
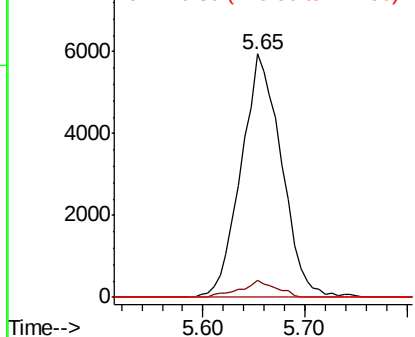
#38  
Carbon Tetrachloride  
Concen: 6.950 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. -0.13 min  
Lab File: VX009794.D  
Acq: 22 May 2019 11:06

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 16323  
Ion Ratio Lower Upper  
117 100  
119 6.9 77.5 116.3#  
121 0.0 24.7 37.1#

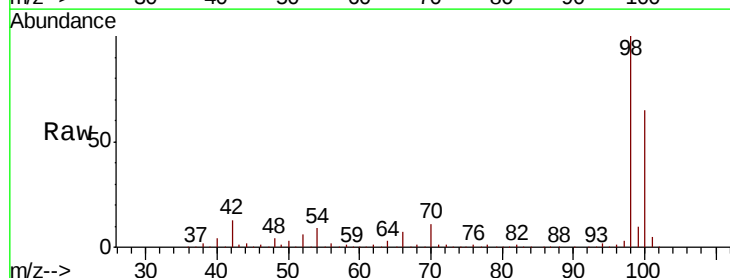


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

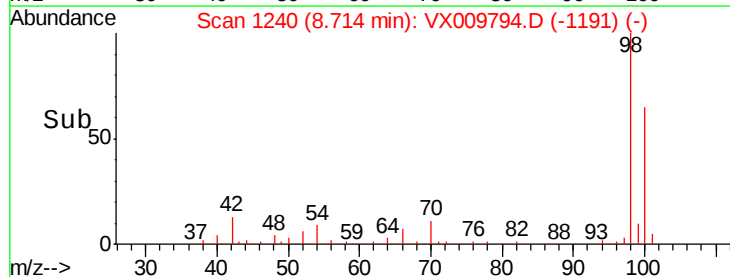
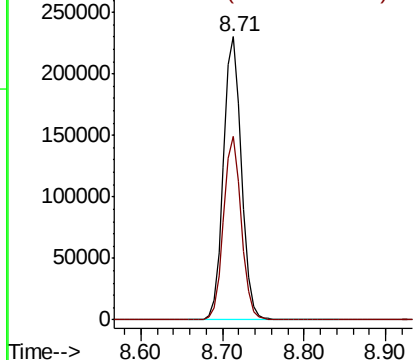


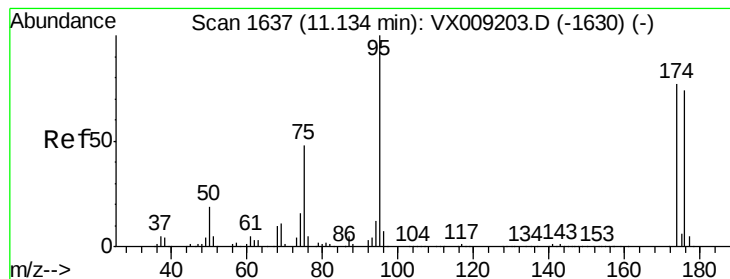
#50  
Toluene-d8  
Concen: 49.748 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX009794.D  
Acq: 22 May 2019 11:06

Tgt Ion: 98 Resp: 351220  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.593 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

Instrument :

MSVOA\_X

ClientSampleId :

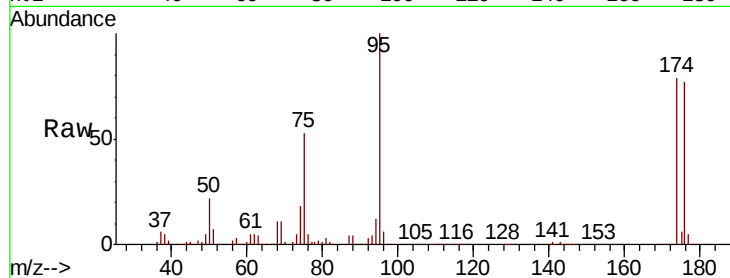
Tot Ion: 95 Resp: 116962

Ion Ratio Lower Upper

95 100

174 81.9 0.0 161.6

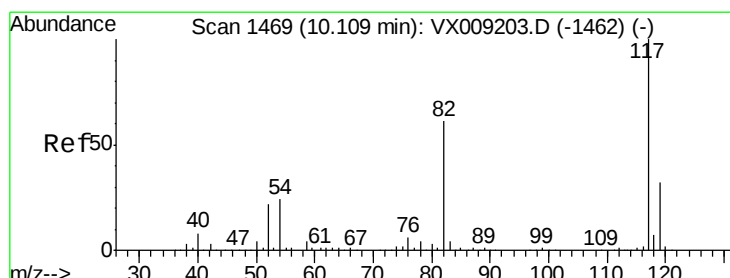
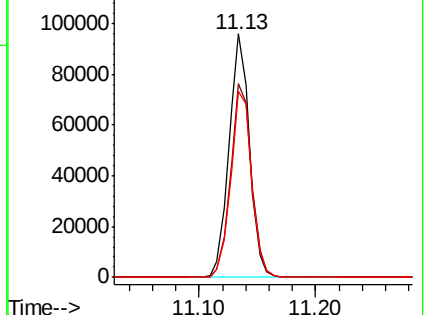
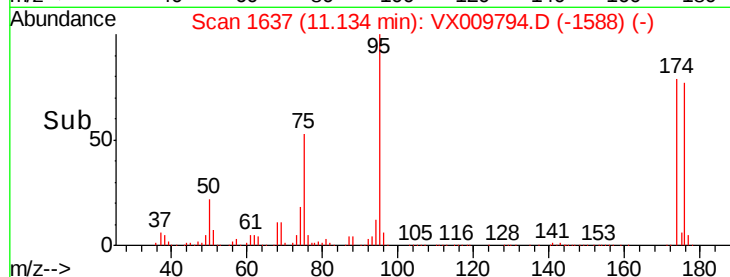
176 78.4 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009794.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009794.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009794.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

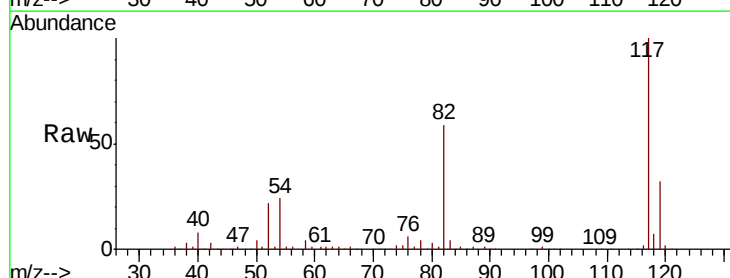
Tgt Ion: 117 Resp: 247209

Ion Ratio Lower Upper

117 100

82 59.2 48.8 73.2

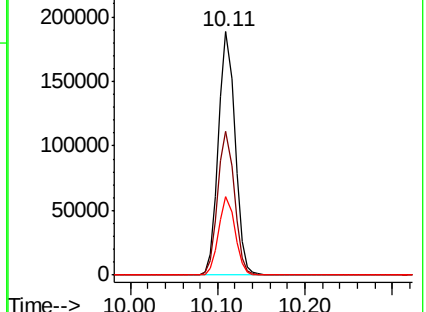
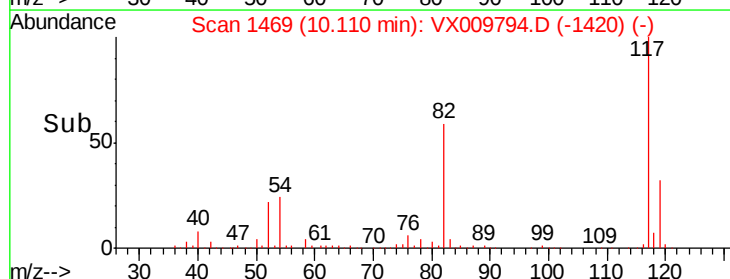
119 32.3 25.8 38.6

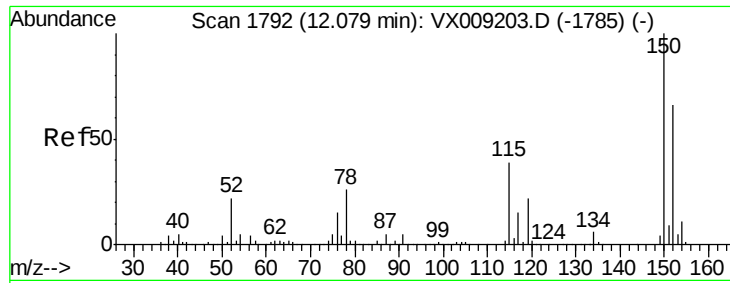


Abundance Ion 116.90 (116.60 to 117.60): VX009794.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009794.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009794.D (-1420) (-)



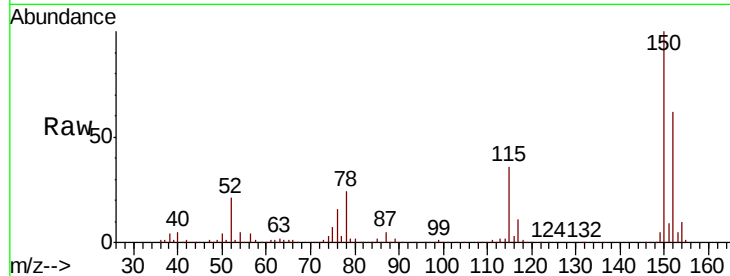


#72

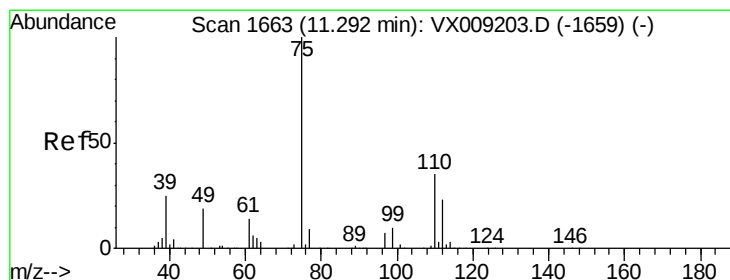
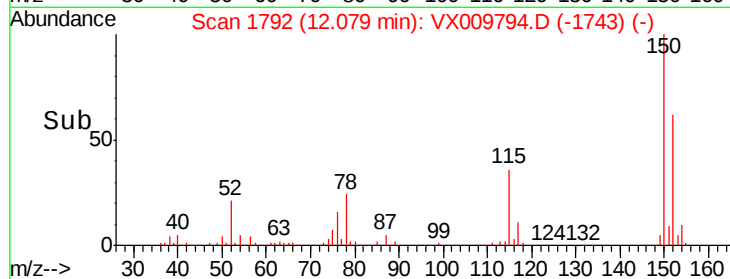
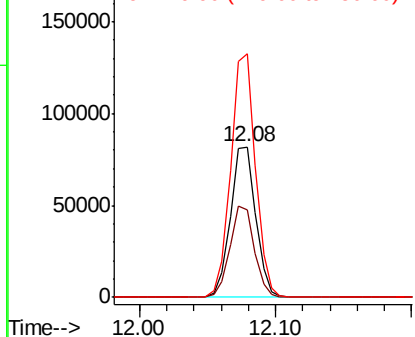
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX009794.D  
Acq: 22 May 2019 11:06

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:152 Resp: 105764  
Ion Ratio Lower Upper  
152 100  
115 59.0 41.2 123.6  
150 158.0 0.0 346.4



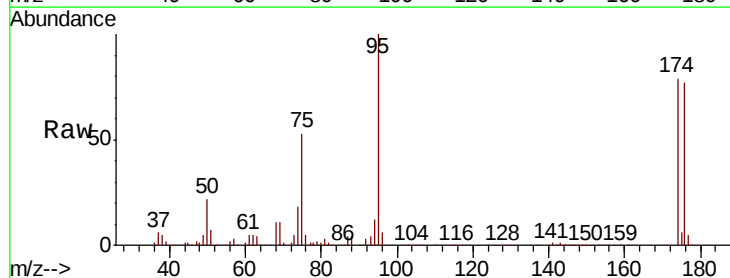
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



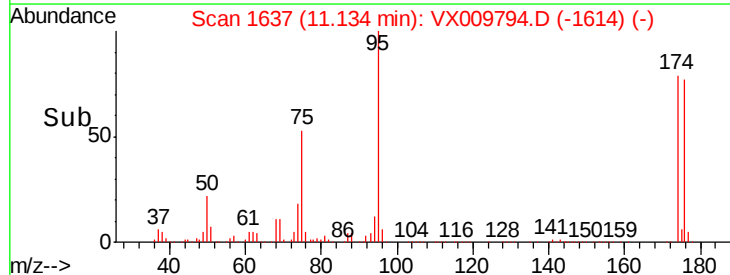
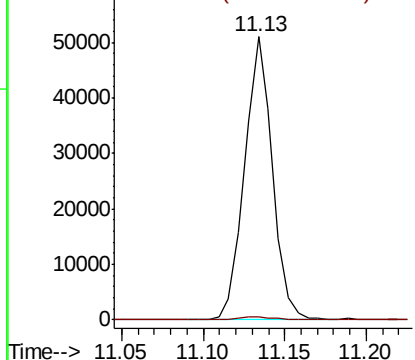
#76

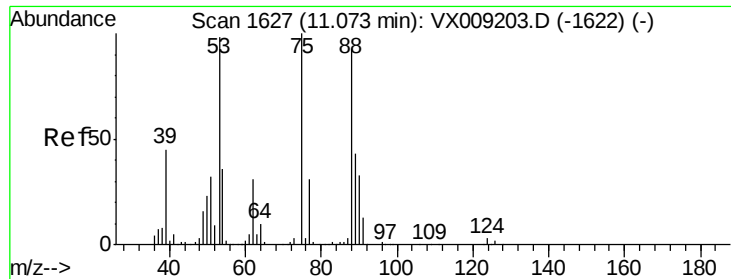
1,2,3-Trichloropropane  
Concen: 24.735 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.16 min  
Lab File: VX009794.D  
Acq: 22 May 2019 11:06

Tgt Ion: 75 Resp: 60684  
Ion Ratio Lower Upper  
75 100  
77 1.4 22.1 66.1#



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: 63.289 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009794.D

Acq: 22 May 2019 11:06

Instrument :

MSVOA\_X

ClientSampleId :

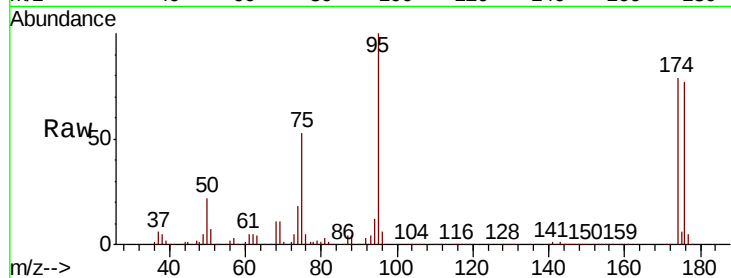
Tot Ion: 75 Resp: 60684

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

