

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX091219\  
 Data File : VX012362.D  
 Acq On : 12 Sep 2019 22:07  
 Operator : SY/SP  
 Sample : K4752-15  
 Misc : 5.01g/5.0mL/MSVOA\_X/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-17-18.5-19.0

Quant Time: Sep 13 02:02:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 12:55:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 167374   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 281062   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 246436   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 107069   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 111706   | 47.21 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.42%  |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 83447    | 46.31 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.62%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 334801   | 52.98 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.96% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 124388   | 42.46 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.92%  |      |

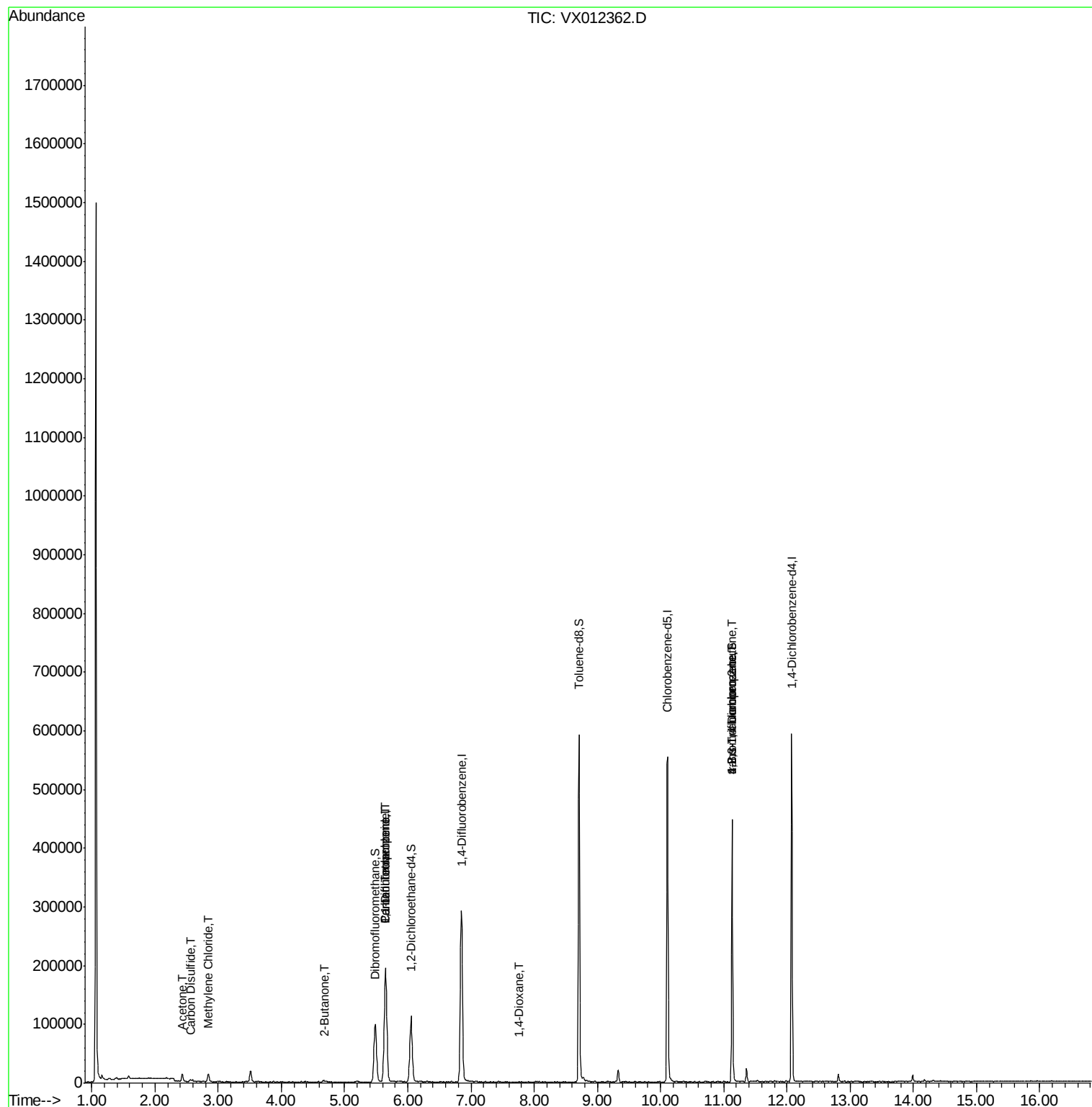
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 335      | Below Cal | #      | 42     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 587      | Below Cal |        | 98     |
| 16) Acetone                    | 2.43  | 43   | 14541    | 25.958    | ug/l   | 97     |
| 17) Carbon Disulfide           | 2.56  | 76   | 3916     | 1.472     | ug/l # | 91     |
| 20) Methylene Chloride         | 2.84  | 84   | 6384     | 1.074     | ug/l   | 95     |
| 25) 2-Butanone                 | 4.67  | 43   | 3255     | 4.545     | ug/l   | 96     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 14425    | 7.039     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 18649    | 7.756     | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 22       | 1.275     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 66056    | 48.025    | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 66056    | 143.893   | ug/l # | 5      |

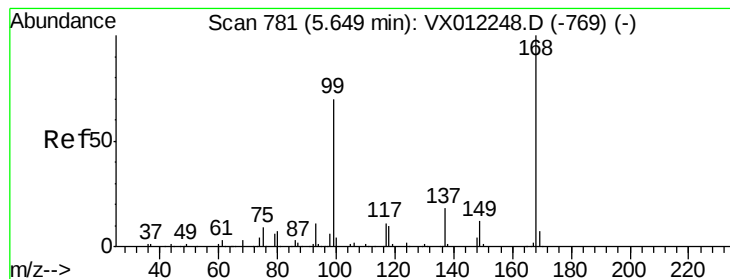
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX091219\  
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ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-17-18.5-19.0

Quant Time: Sep 13 02:02:34 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 10 12:55:26 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: VX012362.D

Acq: 12 Sep 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

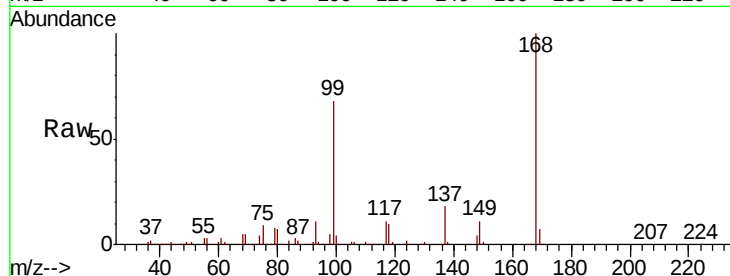
SB-17-18.5-19.0

Tgt Ion:168 Resp: 167374

Ion Ratio Lower Upper

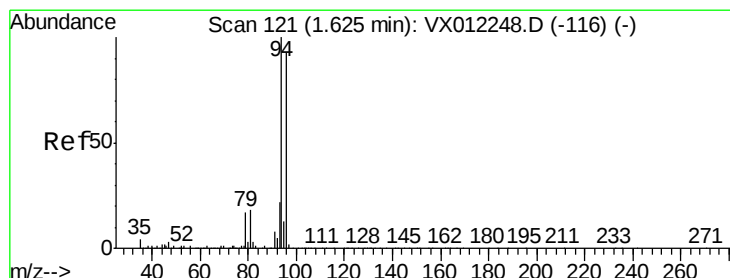
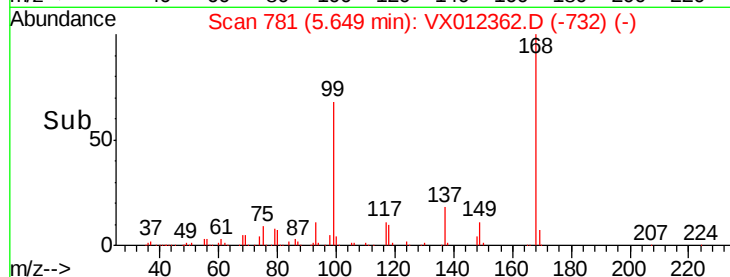
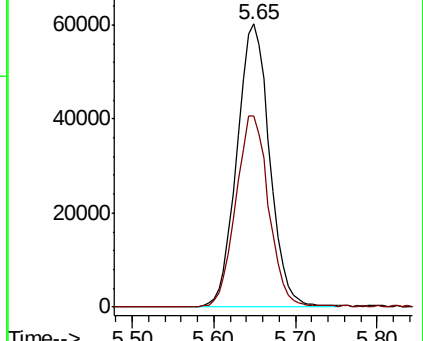
168 100

99 67.7 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012362.D

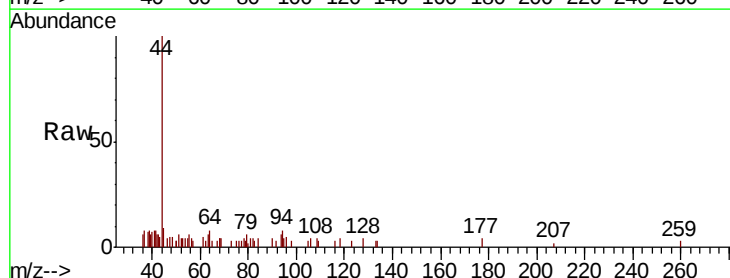
Acq: 12 Sep 2019 22:07

Tgt Ion: 94 Resp: 335

Ion Ratio Lower Upper

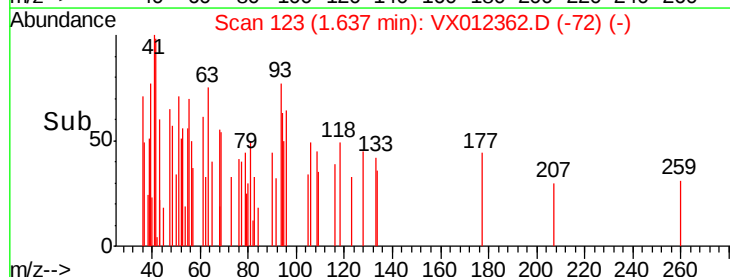
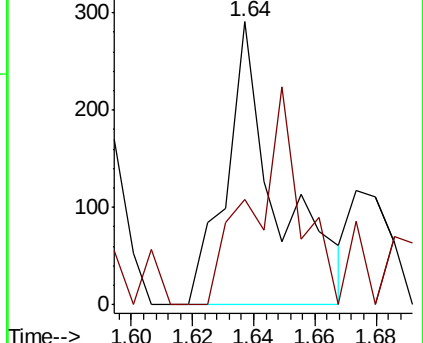
94 100

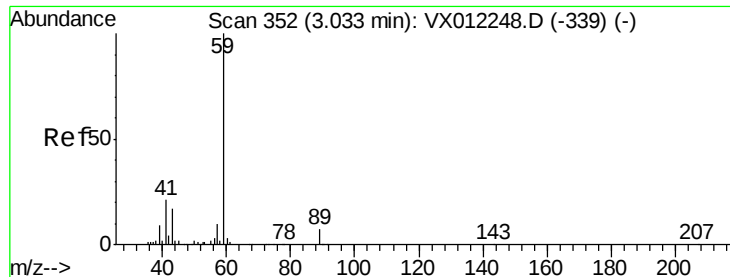
96 37.1 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

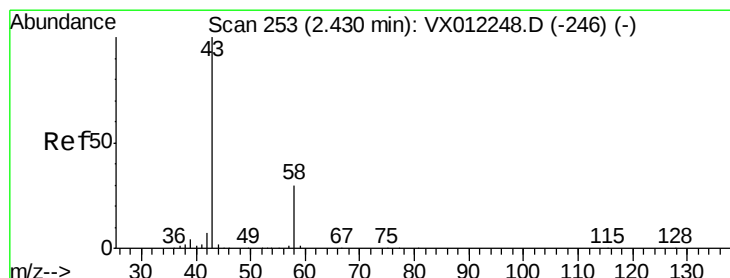
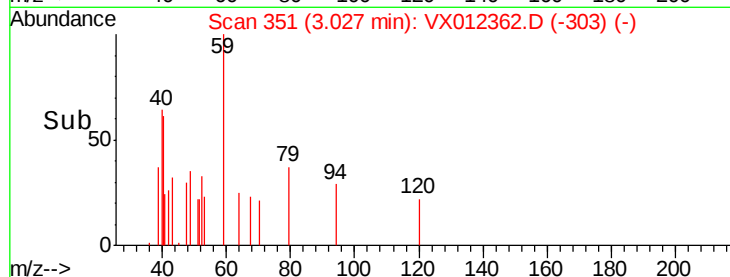
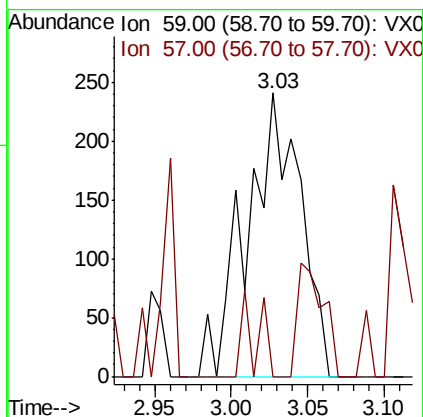
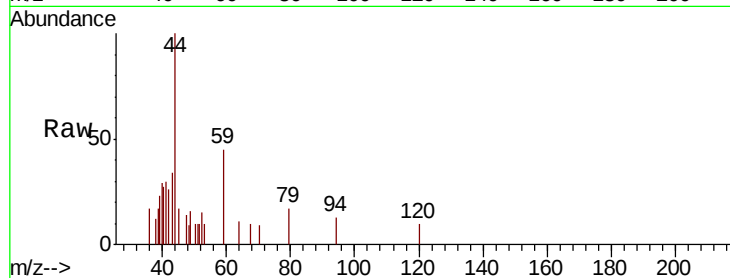




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 3.03 min Scan# 351  
Delta R.T. -0.01 min  
Lab File: VX012362.D  
Acq: 12 Sep 2019 22:07

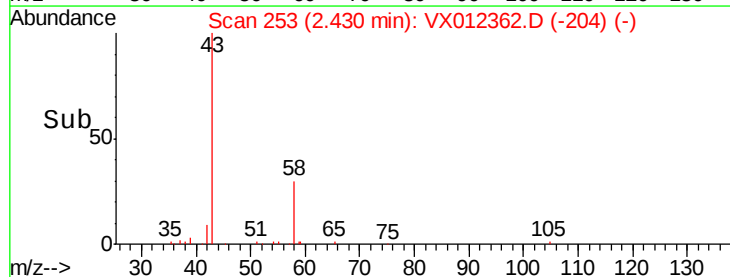
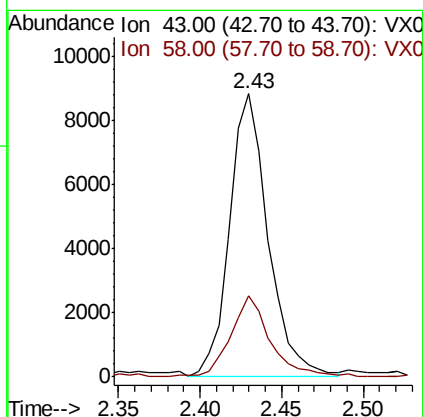
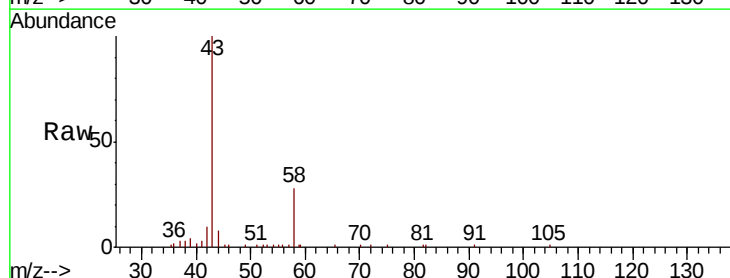
Instrument :  
MSVOA\_X  
ClientSampled :  
SB-17-18.5-19.0

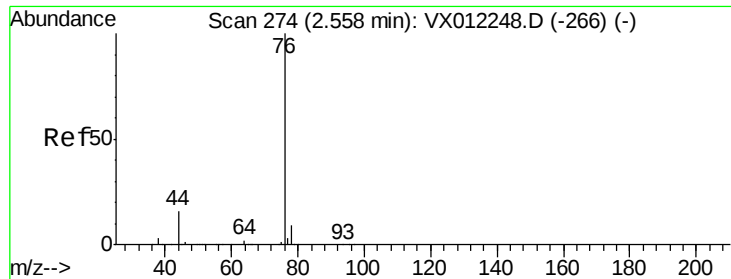
Tgt Ion: 59 Resp: 587  
Ion Ratio Lower Upper  
59 100  
57 8.9 7.8 11.6



#16  
Acetone  
Concen: 25.958 ug/l  
RT: 2.43 min Scan# 253  
Delta R.T. 0.00 min  
Lab File: VX012362.D  
Acq: 12 Sep 2019 22:07

Tgt Ion: 43 Resp: 14541  
Ion Ratio Lower Upper  
43 100  
58 27.9 23.6 35.4





#17

Carbon Disulfide

Concen: 1.472 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

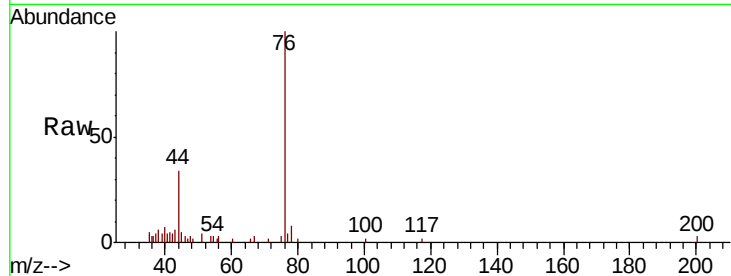
SB-17-18.5-19.0

Tgt Ion: 76 Resp: 3916

Ion Ratio Lower Upper

76 100

78 5.9 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

2500

2000

1500

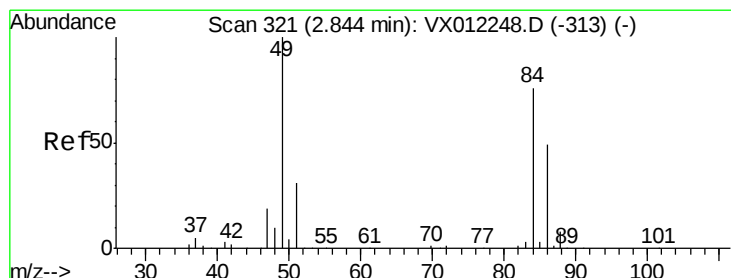
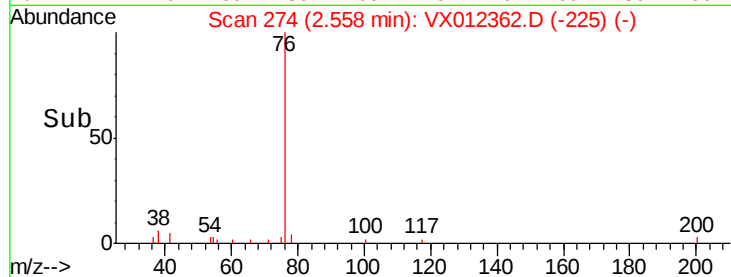
1000

500

0

Time-->

2.50 2.55 2.60



#20

Methylene Chloride

Concen: 1.074 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

Tgt Ion: 84 Resp: 6384

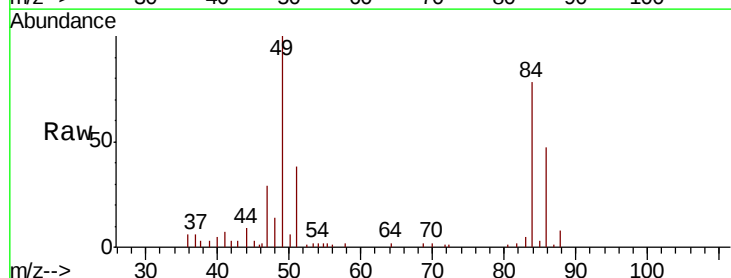
Ion Ratio Lower Upper

84 100

49 128.1 105.0 157.6

51 46.7 32.6 48.8

86 60.4 51.8 77.6



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

6000

5000

4000

3000

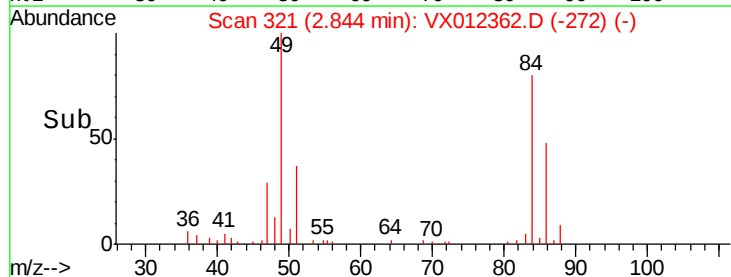
2000

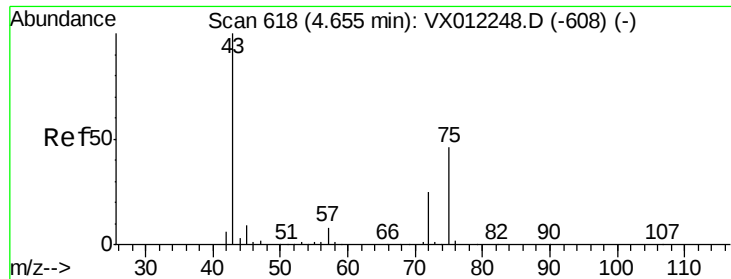
1000

0

Time-->

2.75 2.80 2.85 2.90 2.95





#25

2-Butanone

Concen: 4.545 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

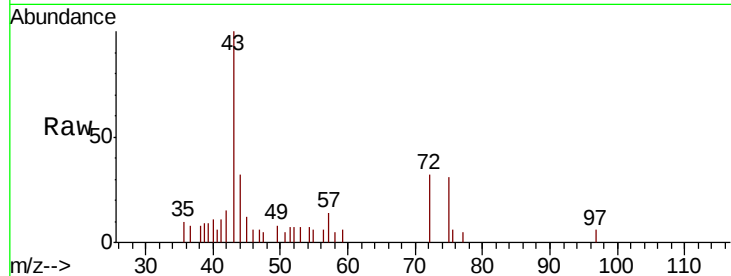
SB-17-18.5-19.0

Tgt Ion: 43 Resp: 3255

Ion Ratio Lower Upper

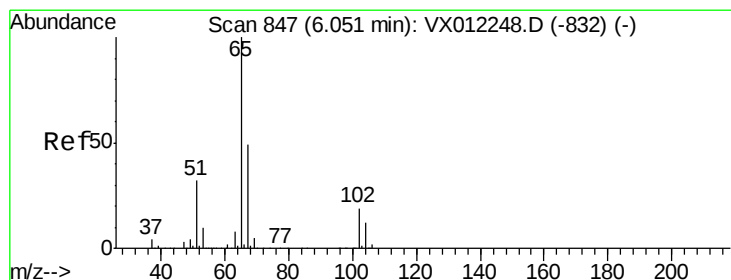
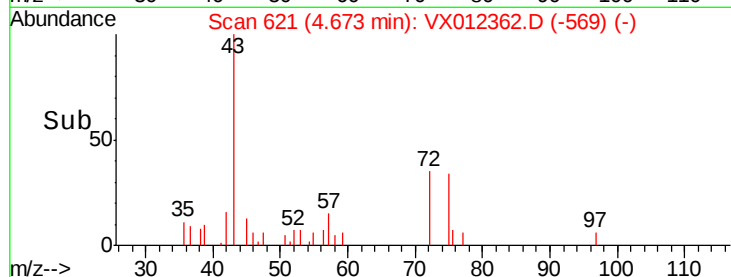
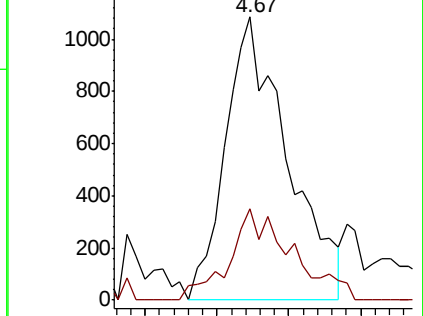
43 100

72 27.3 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.206 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012362.D

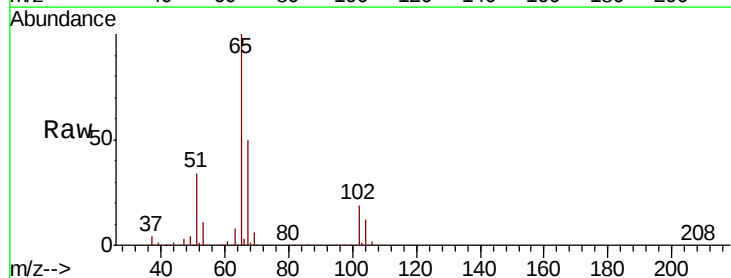
Acq: 12 Sep 2019 22:07

Tgt Ion: 65 Resp: 111706

Ion Ratio Lower Upper

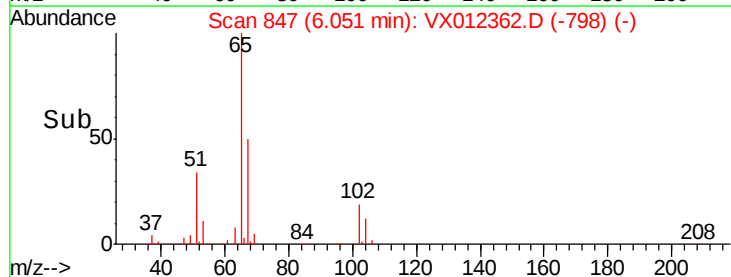
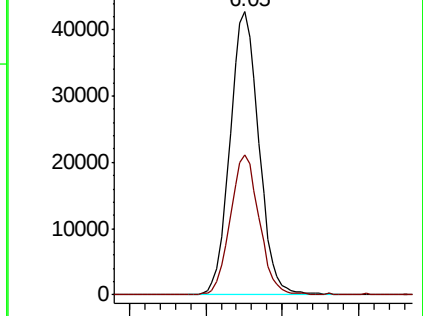
65 100

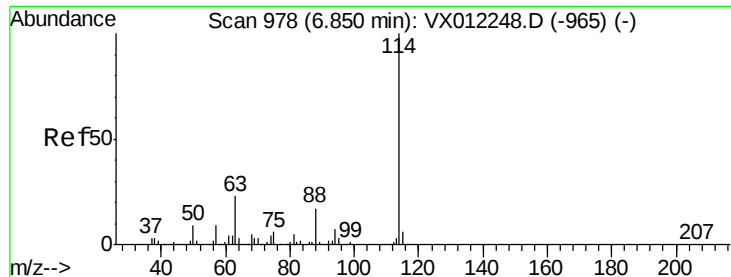
67 49.4 0.0 99.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

SB-17-18.5-19.0

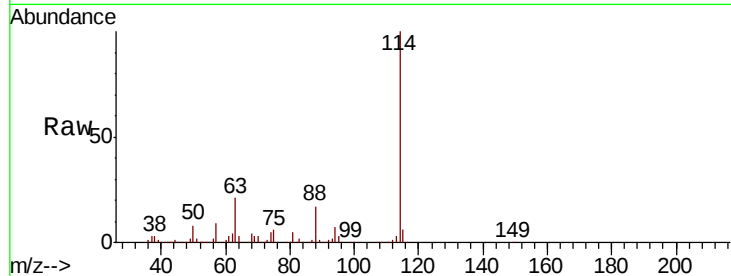
Tgt Ion:114 Resp: 281062

Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.2

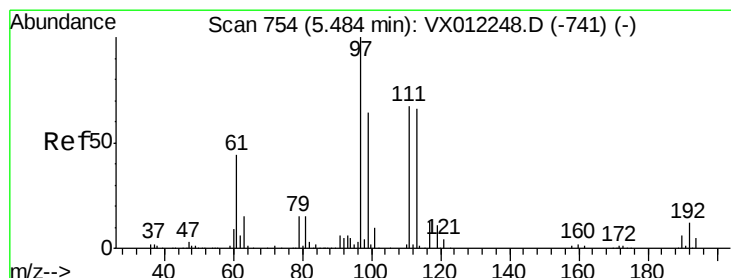
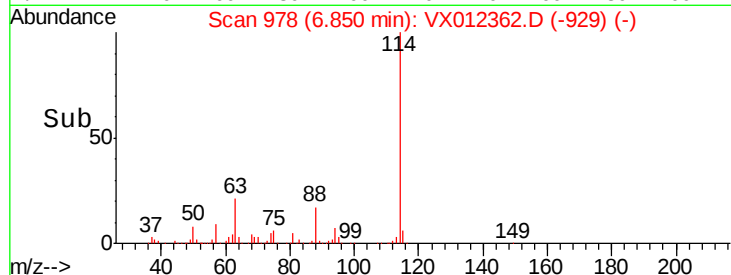
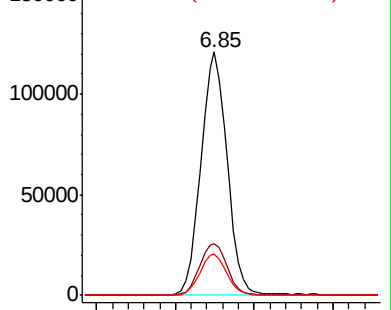
88 17.3 0.0 34.8



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: 46.315 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

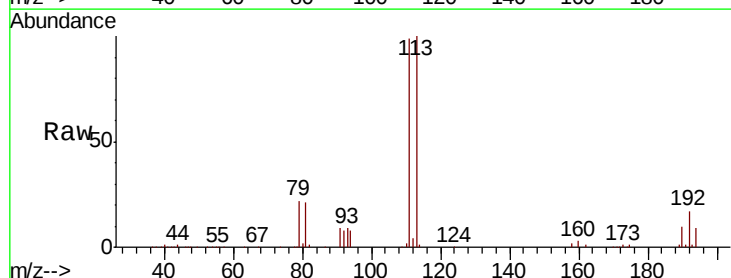
Tgt Ion:113 Resp: 83447

Ion Ratio Lower Upper

113 100

111 101.8 83.0 124.6

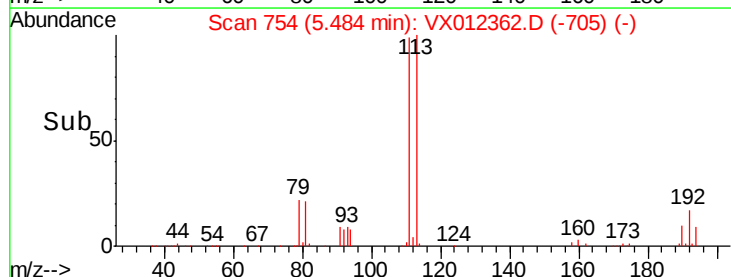
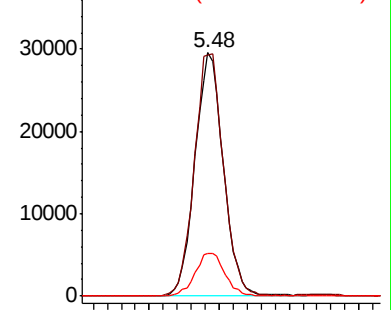
192 18.4 14.3 21.5

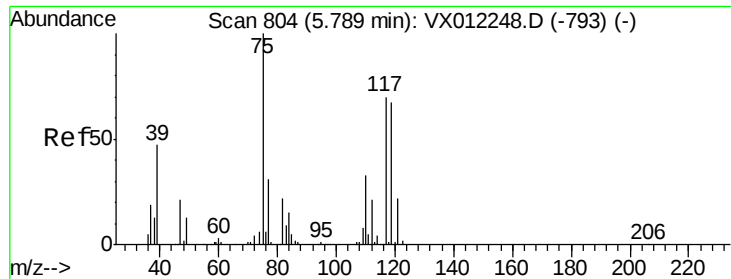


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

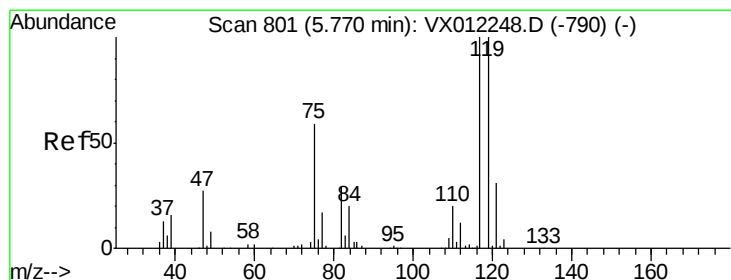
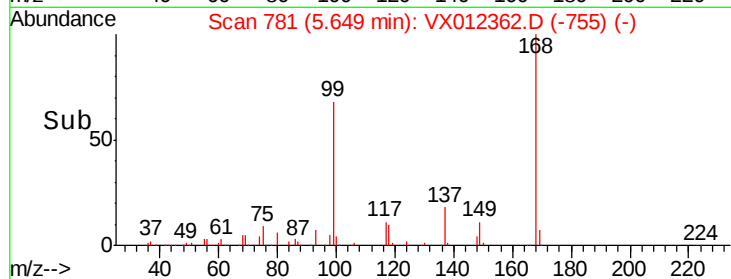
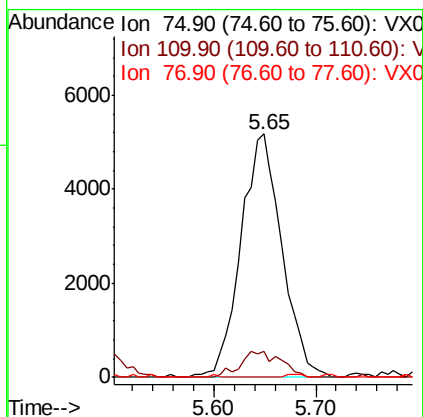
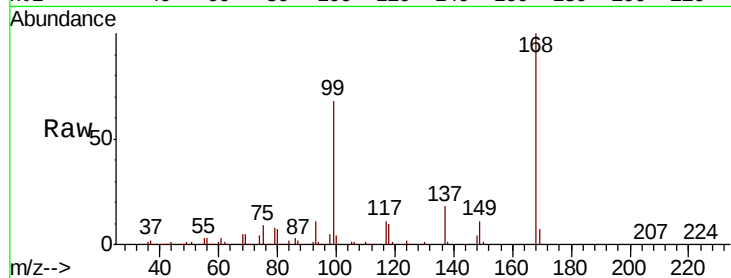




#36  
 1,1-Dichloropropene  
 Concen: 7.039 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX012362.D  
 Acq: 12 Sep 2019 22:07

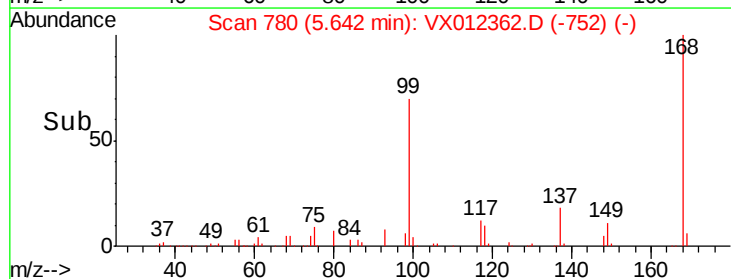
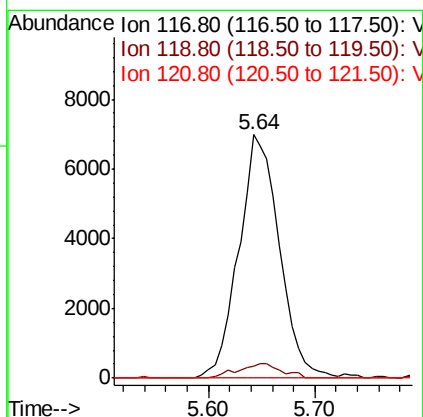
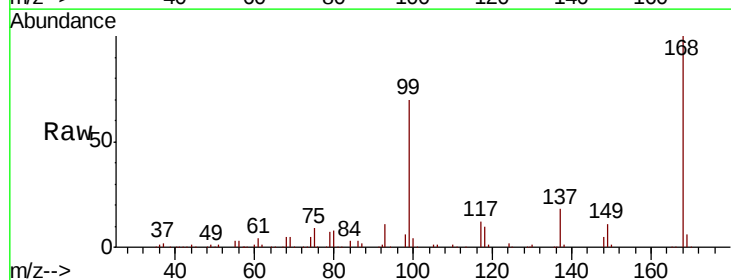
Instrument :  
 MSVOA\_X  
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 SB-17-18.5-19.0

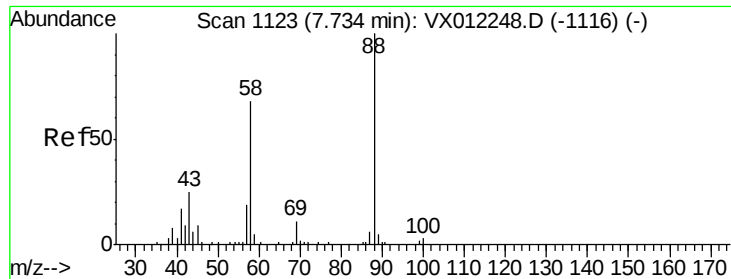
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.6  | 16.8  | 50.4# |
| 77      | 0.0   | 24.5  | 36.7# |



#38  
 Carbon Tetrachloride  
 Concen: 7.756 ug/l  
 RT: 5.64 min Scan# 780  
 Delta R.T. -0.13 min  
 Lab File: VX012362.D  
 Acq: 12 Sep 2019 22:07

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.1   | 79.6  | 119.4# |
| 121     | 0.0   | 24.7  | 37.1#  |

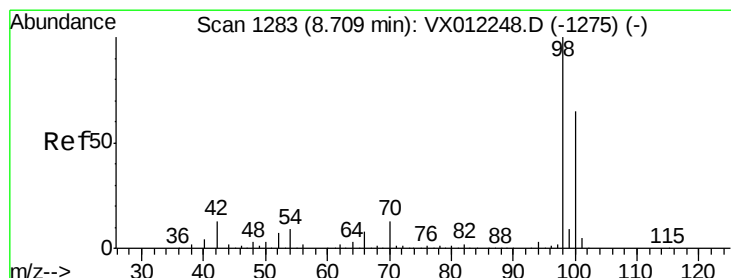
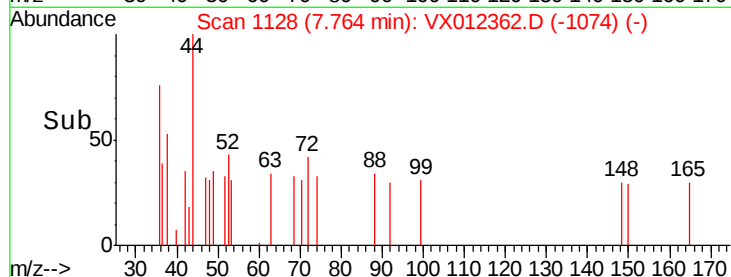
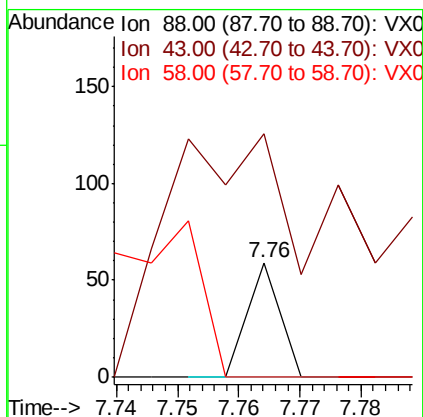
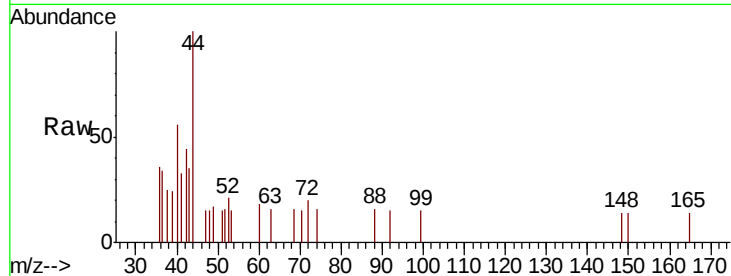




#49  
1,4-Dioxane  
Concen: 1.275 ug/l  
RT: 7.76 min Scan# 1128  
Delta R.T. 0.03 min  
Lab File: VX012362.D  
Acq: 12 Sep 2019 22:07

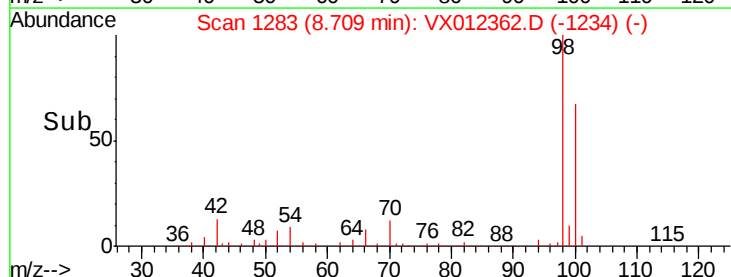
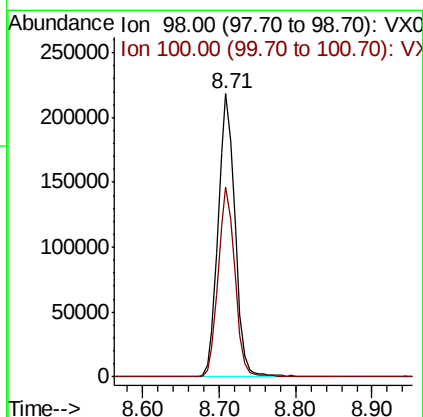
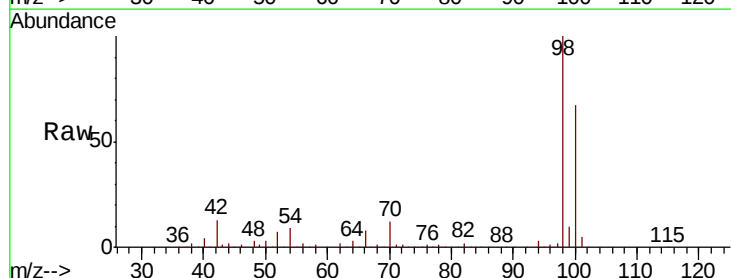
Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-17-18.5-19.0

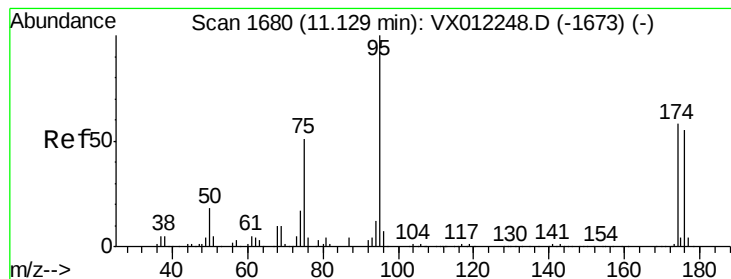
Tgt Ion: 88 Resp: 22  
Ion Ratio Lower Upper  
88 100  
43 1040.9 31.0 46.4#  
58 340.9 61.5 92.3#



#50  
Toluene-d8  
Concen: 52.981 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX012362.D  
Acq: 12 Sep 2019 22:07

Tgt Ion: 98 Resp: 334801  
Ion Ratio Lower Upper  
98 100  
100 66.4 54.1 81.1





#62

4-Bromofluorobenzene

Concen: 42.458 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

SB-17-18.5-19.0

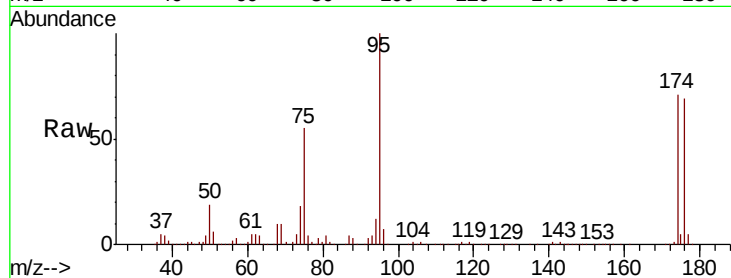
Tgt Ion: 95 Resp: 124388

Ion Ratio Lower Upper

95 100

174 68.9 0.0 127.0

176 65.1 0.0 125.8

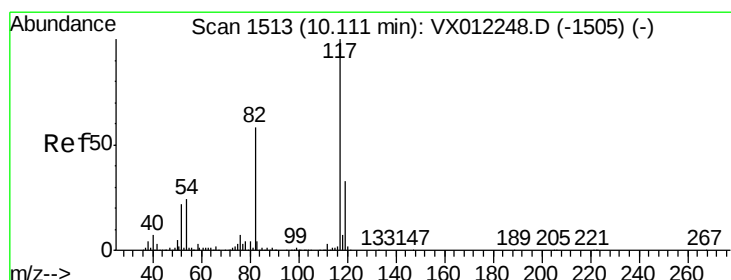
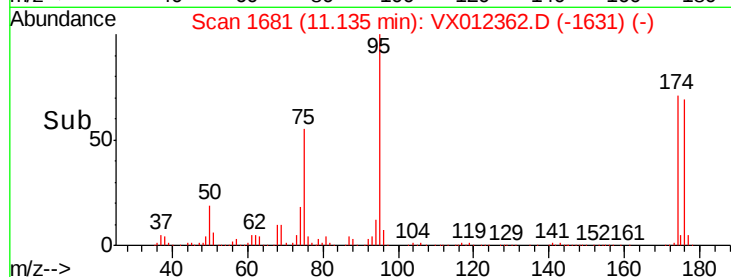
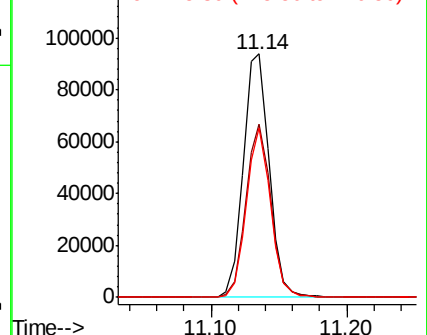


Abundance

Ion 94.90 (94.60 to 95.60): VX012248.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX012248.D (-1673) (-)

Ion 175.80 (175.50 to 176.50): VX012248.D (-1673) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

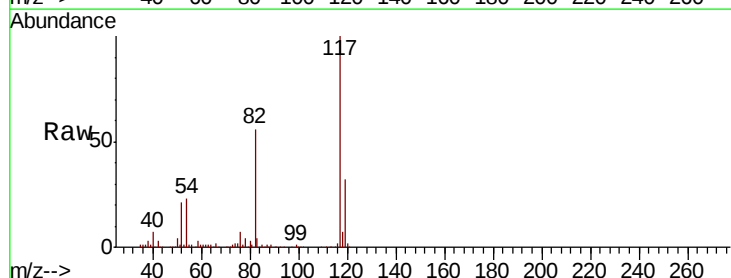
Tgt Ion: 117 Resp: 246436

Ion Ratio Lower Upper

117 100

82 56.0 46.4 69.6

119 32.5 26.6 39.8

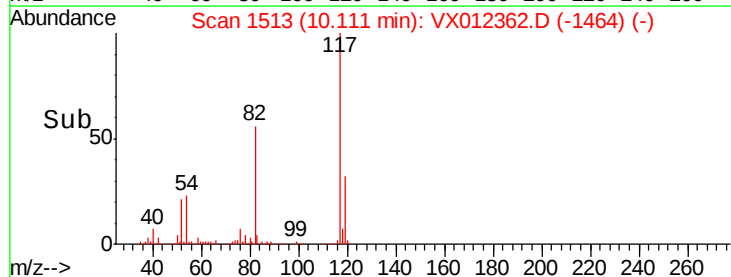
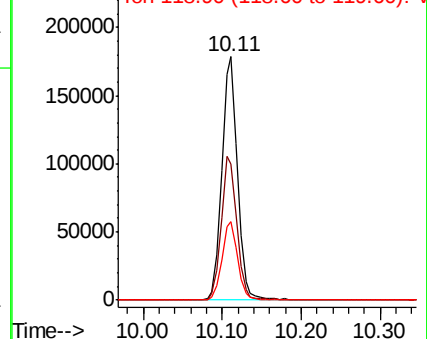


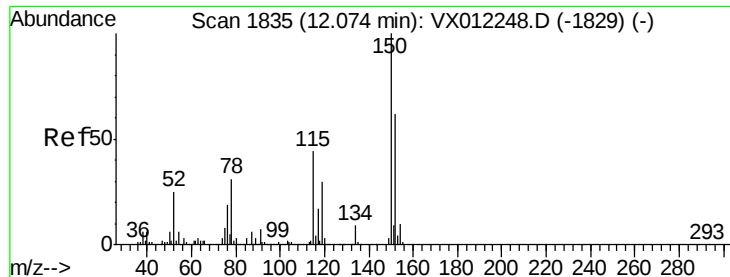
Abundance

Ion 116.90 (116.60 to 117.60): VX012248.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012248.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012248.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

SB-17-18.5-19.0

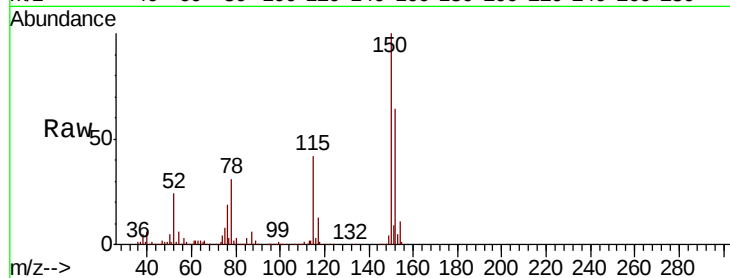
Tgt Ion:152 Resp: 107069

Ion Ratio Lower Upper

152 100

115 65.4 45.5 136.4

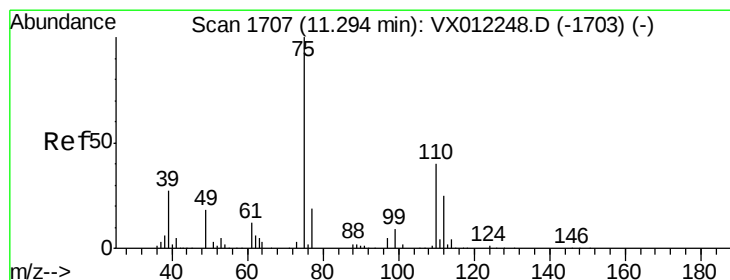
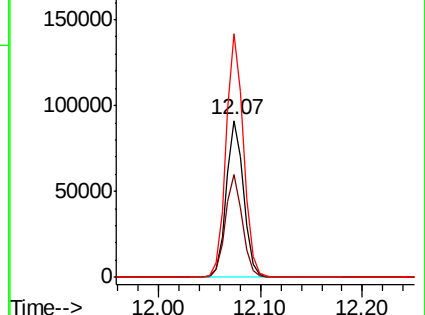
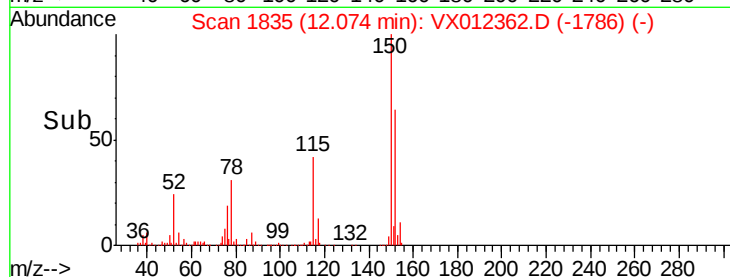
150 156.5 0.0 346.4



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: 48.025 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012362.D

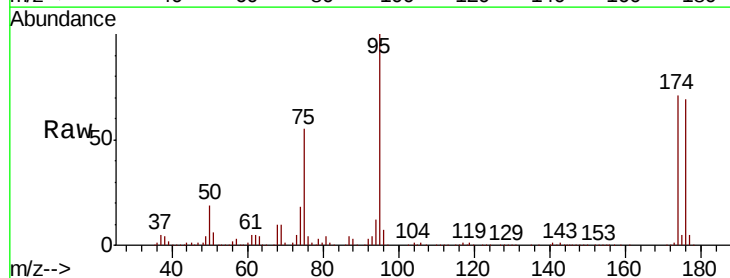
Acq: 12 Sep 2019 22:07

Tgt Ion: 75 Resp: 66056

Ion Ratio Lower Upper

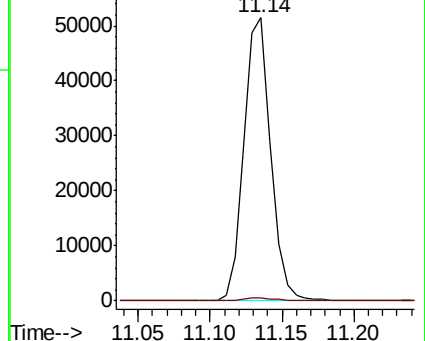
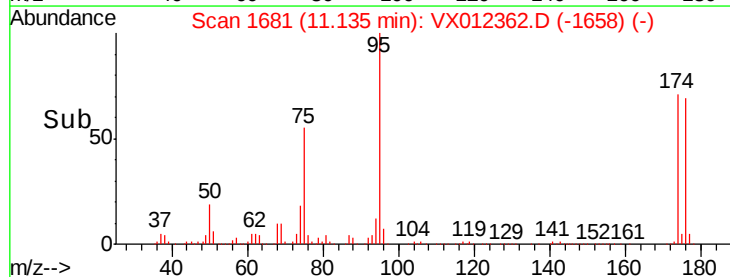
75 100

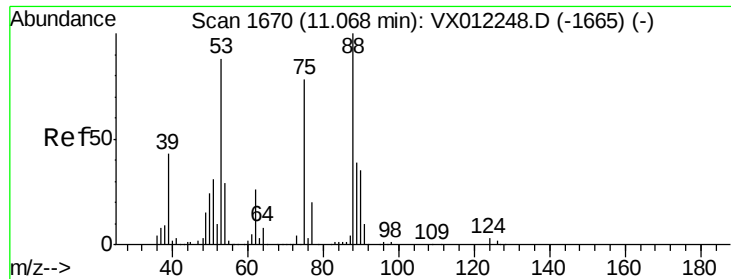
77 1.3 19.7 59.0#



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: 143.893 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012362.D

Acq: 12 Sep 2019 22:07

Instrument :

MSVOA\_X

ClientSampleId :

SB-17-18.5-19.0

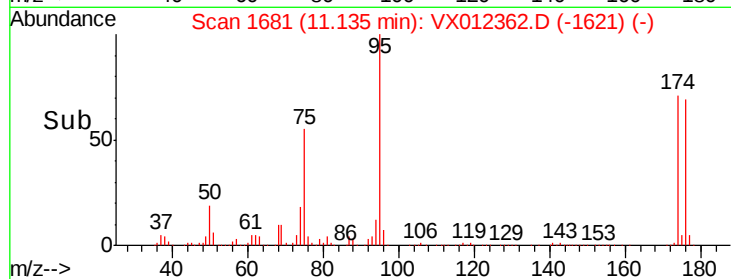
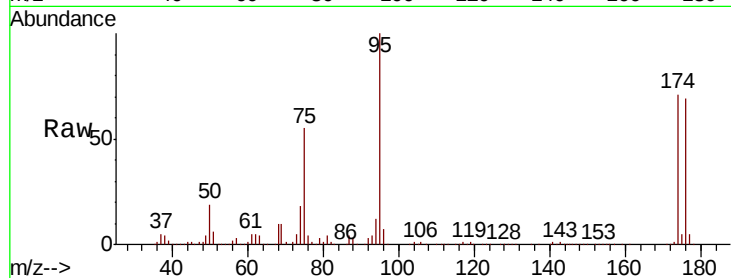
Tgt Ion: 75 Resp: 66056

Ion Ratio Lower Upper

75 100

53 0.2 88.1 132.1#

89 0.1 43.5 65.3#



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

