

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\  
 Data File : VX013150.D  
 Acq On : 21 Oct 2019 12:37  
 Operator : JC/SP  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

Quant Time: Oct 22 01:42:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Oct 22 01:38:23 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.00  | 128  | 27158    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 153840   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 138338   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 63757    | 30.46    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.53% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 72090    | 29.78    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 99.27%  |
| 63) Toluene-d8            | 8.71   | 98    | 189510   | 30.15    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.50% |

## Target Compounds

|                               |      |     |        |        | Ovalue     |
|-------------------------------|------|-----|--------|--------|------------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 39178  | 20.992 | ug/l 100   |
| 3) Chloromethane              | 1.32 | 50  | 33066  | 18.515 | ug/l 100   |
| 4) Vinyl Chloride             | 1.40 | 62  | 34367  | 19.048 | ug/l 100   |
| 5) Bromomethane               | 1.63 | 94  | 21414  | 24.986 | ug/l 100   |
| 6) Chloroethane               | 1.72 | 64  | 22424  | 20.343 | ug/l 100   |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 55716  | 20.717 | ug/l 100   |
| 8) Diethyl Ether              | 2.18 | 74  | 18723  | 19.370 | ug/l 100   |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 32744  | 19.510 | ug/l 100   |
| 10) 1,1-Dichloroethene        | 2.37 | 96  | 32501  | 19.699 | ug/l 100   |
| 11) Methyl Iodide             | 2.50 | 142 | 39697  | 19.377 | ug/l 100   |
| 12) Methyl Acetate            | 2.76 | 43  | 43067  | 18.828 | ug/l 100   |
| 13) Acrolein                  | 2.28 | 56  | 33380  | 99.815 | ug/l 100   |
| 14) Acrylonitrile             | 3.13 | 53  | 90114  | 94.501 | ug/l 100   |
| 15) Acetone                   | 2.43 | 58  | 31089  | 95.567 | ug/l 100   |
| 16) Carbon Disulfide          | 2.56 | 76  | 85014  | 19.092 | ug/l 100   |
| 17) Allyl chloride            | 2.72 | 41  | 51772  | 18.697 | ug/l 100   |
| 18) Methylene Chloride        | 2.85 | 84  | 37254  | 19.863 | ug/l 100   |
| 19) trans-1,2-Dichloroethene  | 3.16 | 96  | 34536  | 19.618 | ug/l 100   |
| 20) Diisopropyl ether         | 3.84 | 45  | 101971 | 19.248 | ug/l 100   |
| 21) 1,1-Dichloroethane        | 3.69 | 63  | 60815  | 19.712 | ug/l 100   |
| 22) cis-1,2-Dichloroethene    | 4.58 | 96  | 39768  | 19.572 | ug/l 100   |
| 23) tert-Butyl Alcohol        | 3.03 | 59  | 47003  | 96.777 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 3.19 | 73  | 111052 | 19.797 | ug/l 100   |
| 25) Chloroform                | 5.20 | 83  | 64142  | 20.047 | ug/l 100   |
| 26) Cyclohexane               | 5.57 | 56  | 52765  | 18.958 | ug/l 100   |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 48370  | 20.341 | ug/l 100   |
| 30) 2-Butanone                | 4.66 | 43  | 129477 | 95.241 | ug/l 100   |
| 31) 2,2-Dichloropropane       | 4.57 | 77  | 54818  | 20.502 | ug/l 100   |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 57455  | 20.609 | ug/l 100   |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 49135  | 20.549 | ug/l 100   |
| 34) Benzene                   | 6.14 | 78  | 139970 | 20.058 | ug/l 100   |
| 35) Methacrylonitrile         | 5.03 | 41  | 25560  | 18.984 | ug/l 100   |
| 36) 1,2-Dichloroethane        | 6.19 | 62  | 52924  | 20.760 | ug/l 100   |
| 37) Trichloroethene           | 7.21 | 130 | 38205  | 20.305 | ug/l 100   |
| 38) Methylcyclohexane         | 7.46 | 83  | 56866  | 19.659 | ug/l 100   |
| 39) 1,2-Dichloropropane       | 7.51 | 63  | 34074  | 19.585 | ug/l 100   |
| 40) Dibromomethane            | 7.65 | 93  | 24388  | 20.274 | ug/l 100   |

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Oct 22 01:38:23 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Bromodichloromethane       | 7.89  | 83   | 48451    | 20.295  | ug/l  | 100      |
| 42) Vinyl Acetate              | 3.80  | 43   | 441131   | 97.731  | ug/l  | 100      |
| 43) Ethyl Acetate              | 4.82  | 43   | 44985    | 18.231  | ug/l  | 100      |
| 44) Isopropyl Acetate          | 6.43  | 43   | 77870    | 19.515  | ug/l  | 100      |
| 45) 1,4-Dioxane                | 7.73  | 88   | 20114    | 403.080 | ug/l  | 100      |
| 46) Methyl methacrylate        | 7.76  | 41   | 38110    | 19.379  | ug/l  | 100      |
| 47) n-amyl Acetate             | 10.89 | 43   | 61750    | 18.159  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene      | 9.04  | 75   | 51334    | 19.454  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene    | 8.43  | 75   | 57285    | 19.754  | ug/l  | 100      |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 35959    | 19.926  | ug/l  | 100      |
| 51) Ethyl methacrylate         | 9.17  | 69   | 54697    | 19.298  | ug/l  | 100      |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 60803    | 20.131  | ug/l  | 100      |
| 53) Dibromochloromethane       | 9.57  | 129  | 37355    | 20.028  | ug/l  | 100      |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 38656    | 20.382  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether  | 8.31  | 63   | 112320   | 92.111  | ug/l  | 100      |
| 56) Bromoform                  | 10.85 | 173  | 25649    | 19.711  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone       | 8.64  | 43   | 239775   | 96.177  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 187392   | 96.509  | ug/l  | 100      |
| 61) Tetrachloroethene          | 9.33  | 164  | 38551    | 21.708  | ug/l  | 100      |
| 62) Toluene                    | 8.78  | 91   | 150548   | 20.017  | ug/l  | 100      |
| 64) Chlorobenzene              | 10.14 | 112  | 95113    | 19.885  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 36035    | 20.389  | ug/l  | 100      |
| 66) Ethyl Benzene              | 10.25 | 91   | 170025   | 19.747  | ug/l  | 100      |
| 67) m/p-Xylenes                | 10.36 | 106  | 130738   | 40.281  | ug/l  | 100      |
| 68) o-Xylene                   | 10.70 | 106  | 60338    | 19.285  | ug/l  | 100      |
| 69) Styrene                    | 10.71 | 104  | 106633   | 19.626  | ug/l  | 100      |
| 70) Isopropylbenzene           | 11.01 | 105  | 170701   | 20.148  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 51307    | 18.949  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane     | 11.29 | 75   | 60645    | 25.863  | ug/l  | 90       |
| 73) Bromobenzene               | 11.25 | 156  | 39621    | 19.653  | ug/l  | 100      |
| 74) n-propylbenzene            | 11.35 | 91   | 184857   | 19.679  | ug/l  | 100      |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 116610   | 20.045  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 138978   | 19.408  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 16459    | 18.522  | ug/l  | 100      |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 129937   | 19.459  | ug/l  | 100      |
| 79) tert-butylbenzene          | 11.76 | 119  | 130402   | 19.373  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 138436   | 19.439  | ug/l  | 100      |
| 81) sec-Butylbenzene           | 11.94 | 105  | 161083   | 19.726  | ug/l  | 100      |
| 82) p-Isopropyltoluene         | 12.06 | 119  | 145443   | 19.497  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 71645    | 19.687  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene        | 12.09 | 146  | 71204    | 19.385  | ug/l  | 100      |
| 85) n-Butylbenzene             | 12.39 | 91   | 120317   | 18.996  | ug/l  | 100      |
| 86) Hexachloroethane           | 12.59 | 117  | 24715    | 19.166  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene        | 12.39 | 146  | 72047    | 19.939  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 12882    | 20.126  | ug/l  | 100      |
| 89) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 42719    | 19.057  | ug/l  | 100      |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 21091    | 19.565  | ug/l  | 100      |
| 91) Naphthalene                | 13.83 | 128  | 141838   | 18.746  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 44273    | 19.586  | ug/l  | 100      |

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Oct 22 01:38:23 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

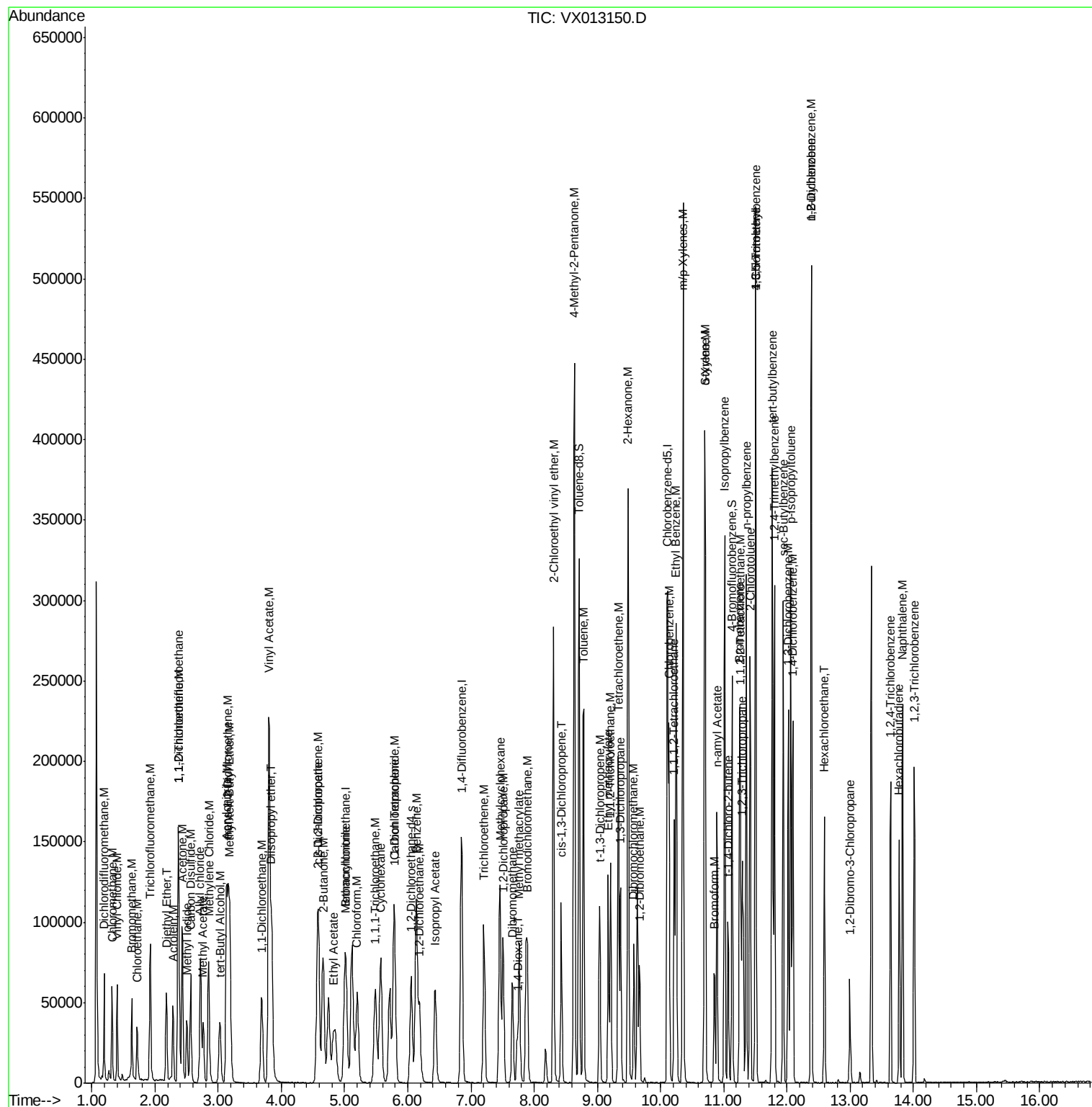
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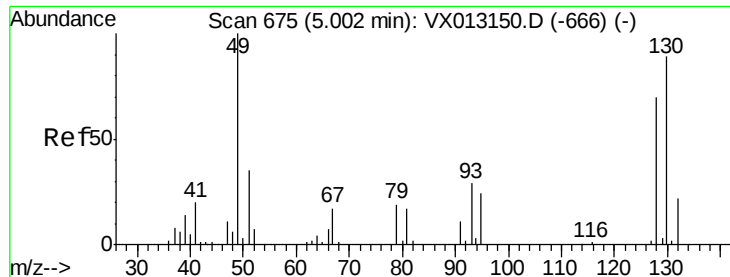
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M  
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

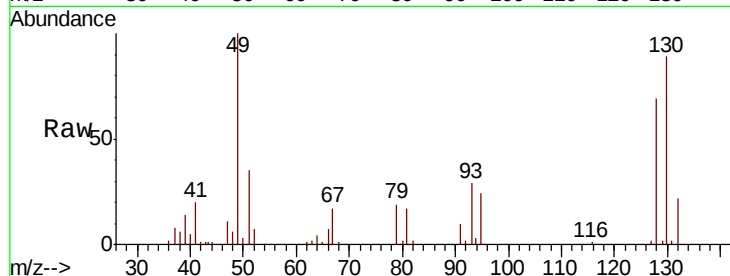
Tot Ion:128 Resp: 27158

Ion Ratio Lower Upper

128 100

49 146.9 0.0 367.3

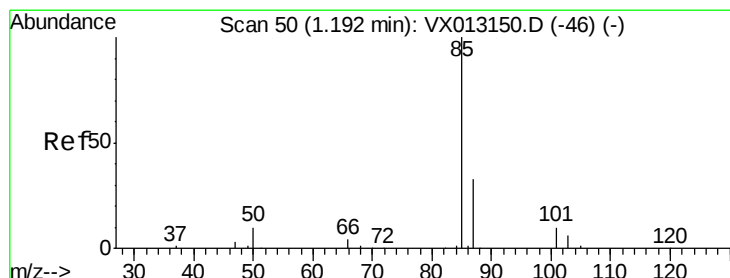
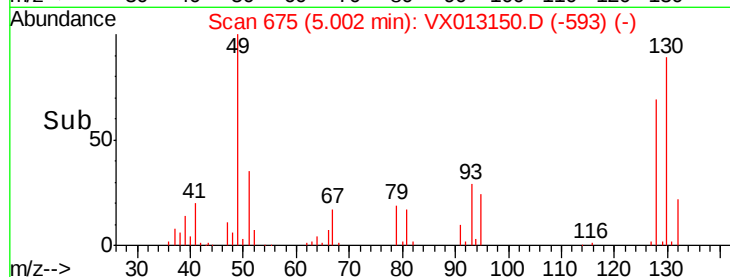
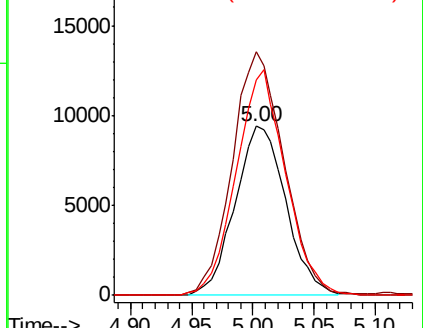
130 130.0 0.0 325.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 20.992 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX013150.D

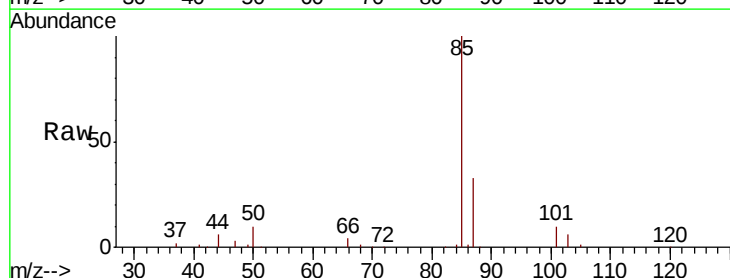
Acq: 21 Oct 2019 12:37

Tgt Ion: 85 Resp: 39178

Ion Ratio Lower Upper

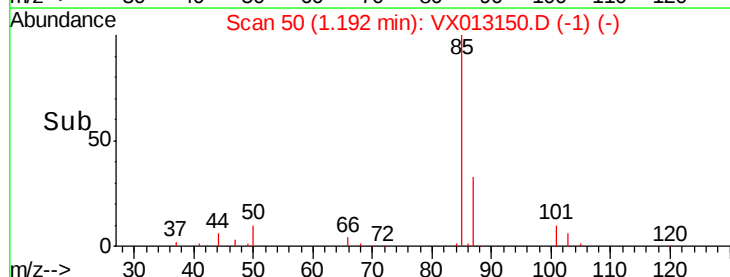
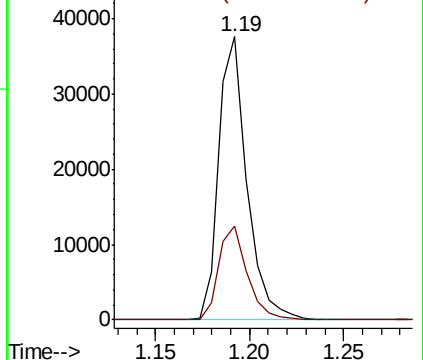
85 100

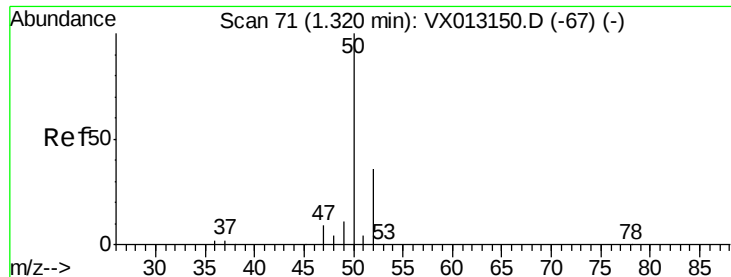
87 33.1 16.6 49.7



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 18.515 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

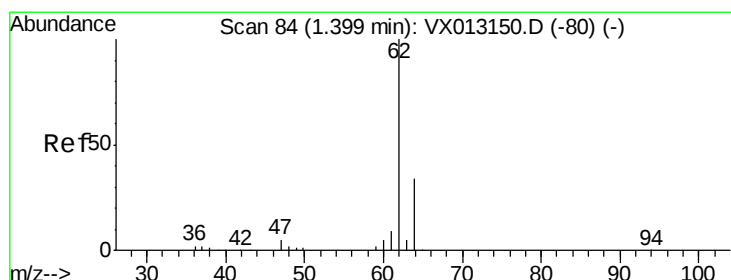
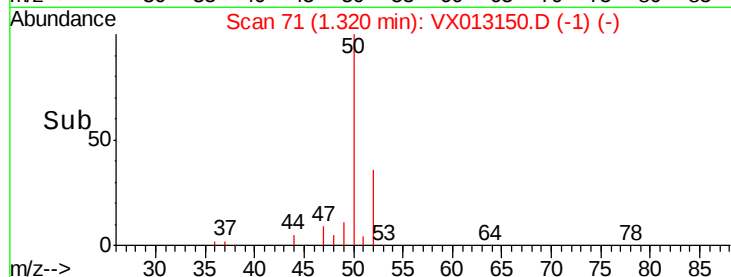
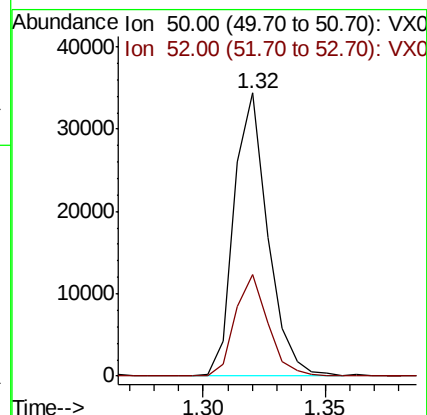
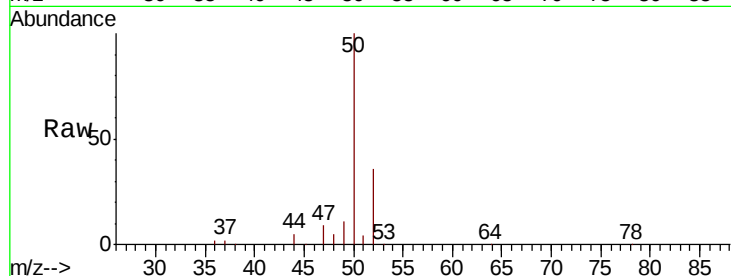
VSTDICCC020

Tot Ion: 50 Resp: 33066

Ion Ratio Lower Upper

50 100

52 35.7 28.6 42.8



#4

Vinyl Chloride

Concen: 19.048 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013150.D

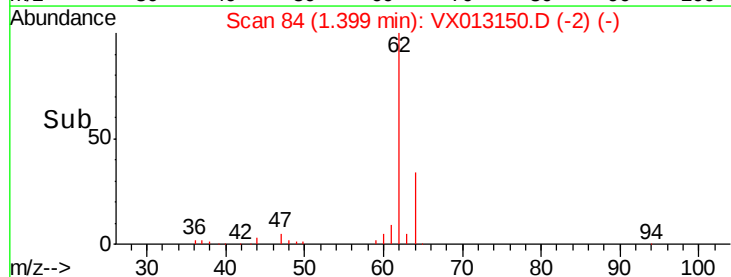
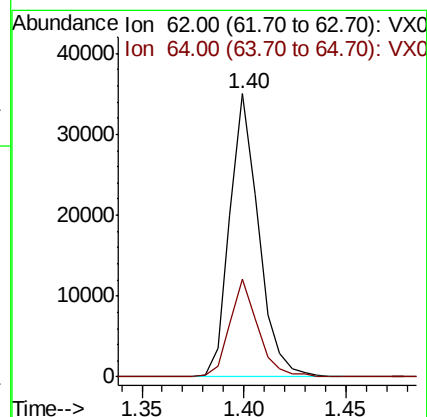
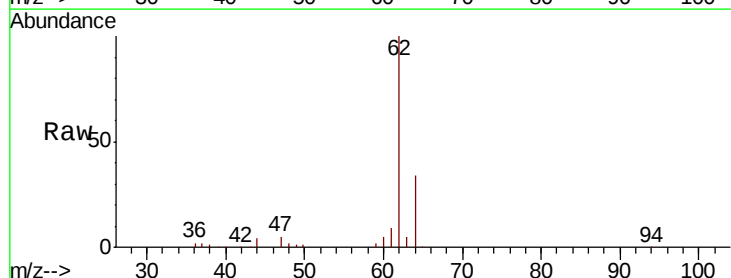
Acq: 21 Oct 2019 12:37

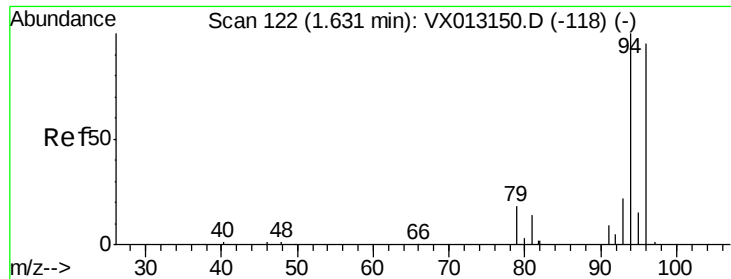
Tgt Ion: 62 Resp: 34367

Ion Ratio Lower Upper

62 100

64 34.1 27.3 40.9

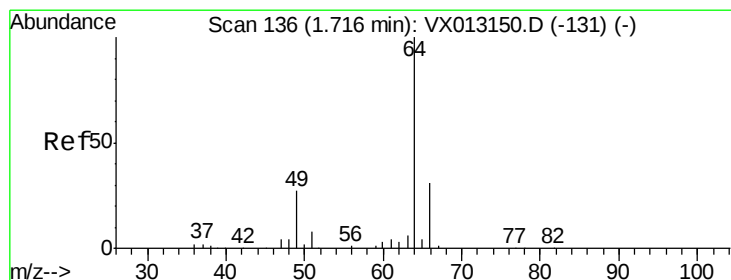
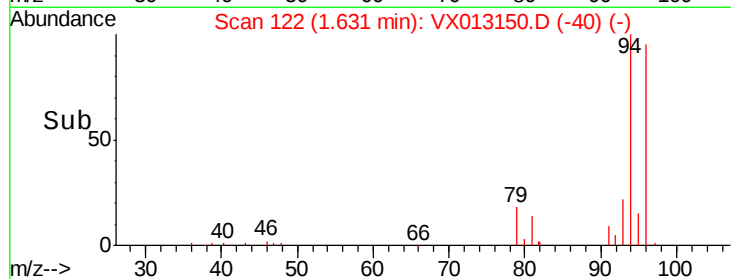
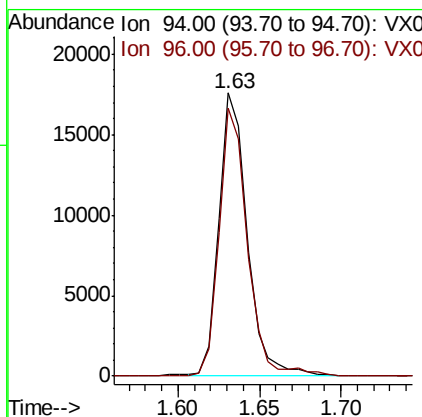
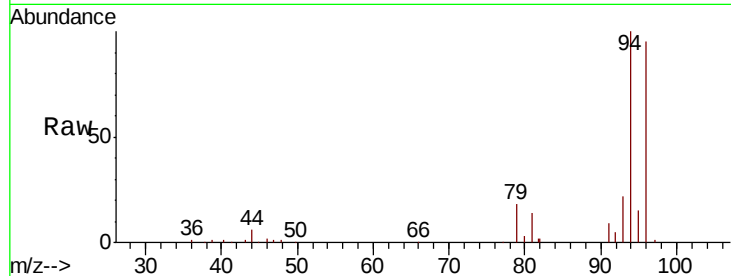




#5  
Bromomethane  
Concen: 24.986 ug/l  
RT: 1.63 min Scan# 122  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

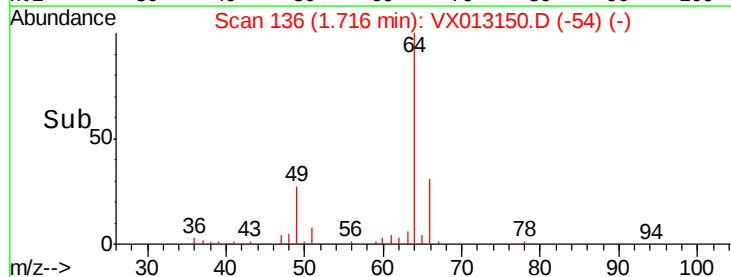
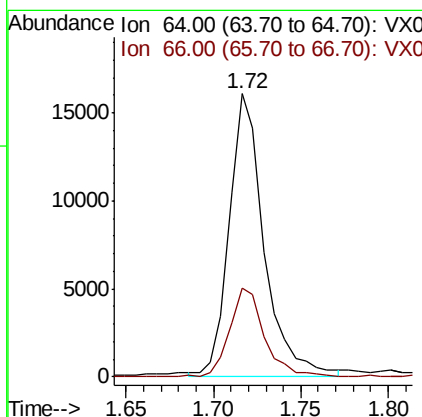
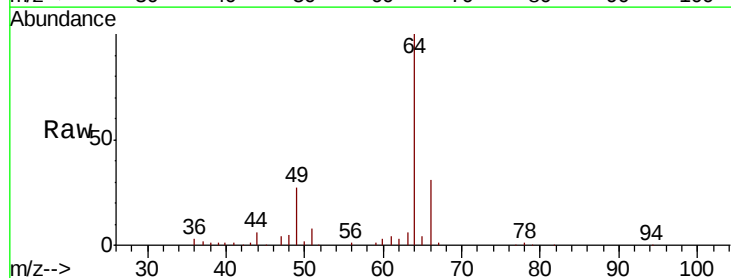
Instrument :  
MSVOA\_X  
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VSTDICCC020

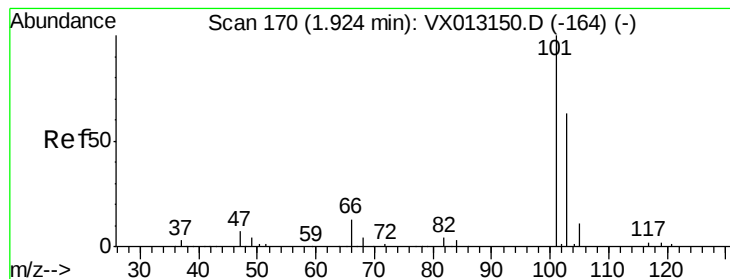
Tot Ion: 94 Resp: 21414  
Ion Ratio Lower Upper  
94 100  
96 94.9 75.9 113.9



#6  
Chloroethane  
Concen: 20.343 ug/l  
RT: 1.72 min Scan# 136  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 64 Resp: 22424  
Ion Ratio Lower Upper  
64 100  
66 31.8 25.4 38.2



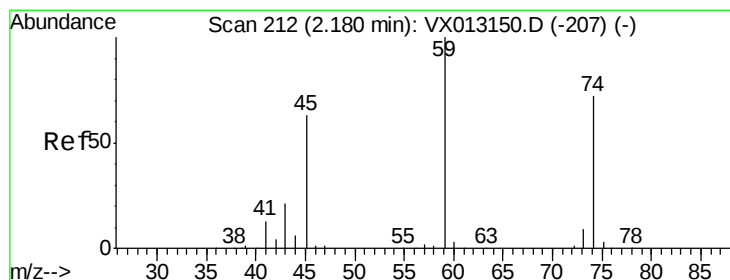
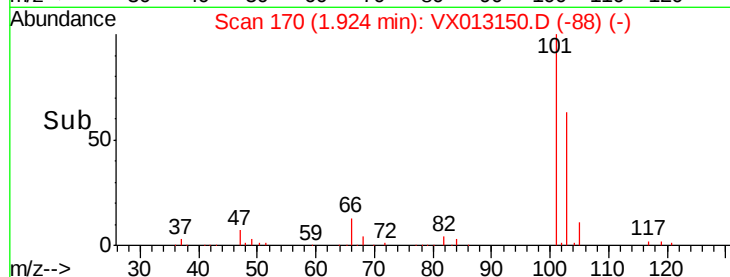
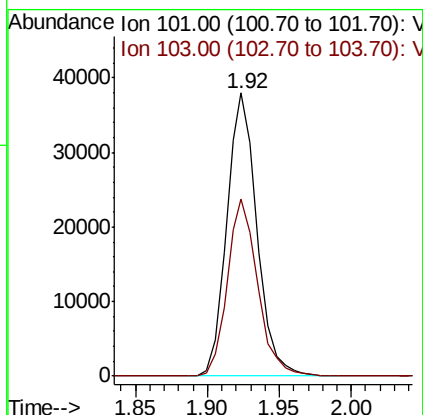
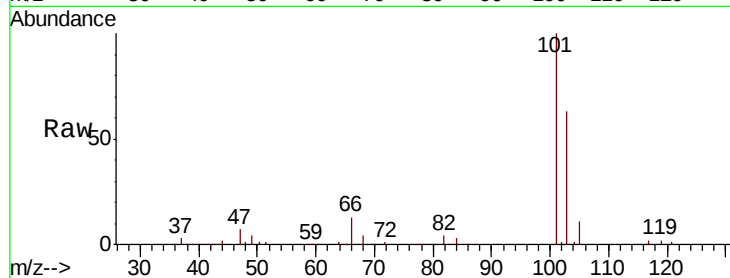


#7

Trichlorofluoromethane  
Concen: 20.717 ug/l  
RT: 1.92 min Scan# 170  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

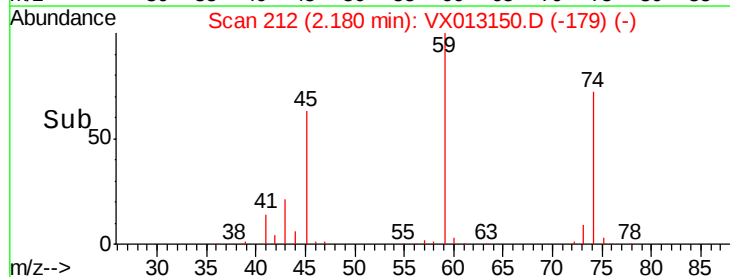
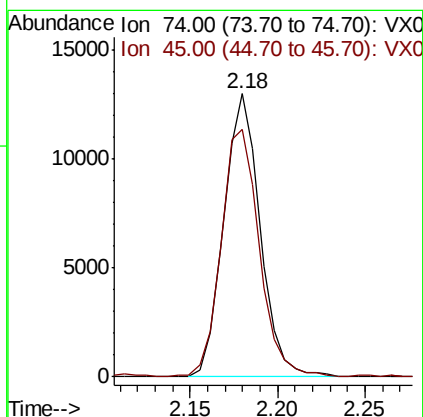
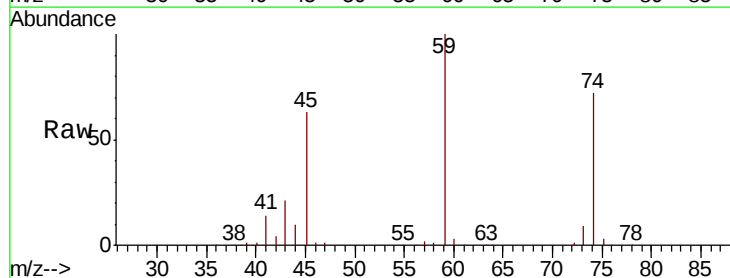
Tot Ion:101 Resp: 55716  
Ion Ratio Lower Upper  
101 100  
103 62.8 50.2 75.4

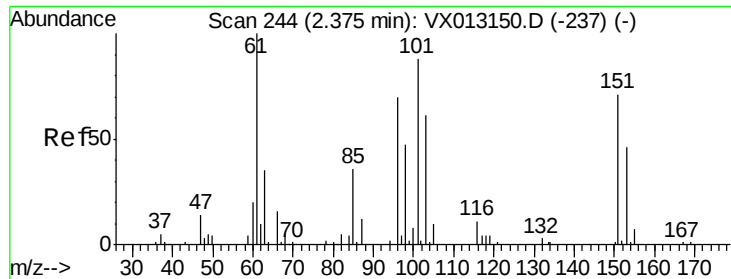


#8

Diethyl Ether  
Concen: 19.370 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 74 Resp: 18723  
Ion Ratio Lower Upper  
74 100  
45 92.0 18.4 165.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.510 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

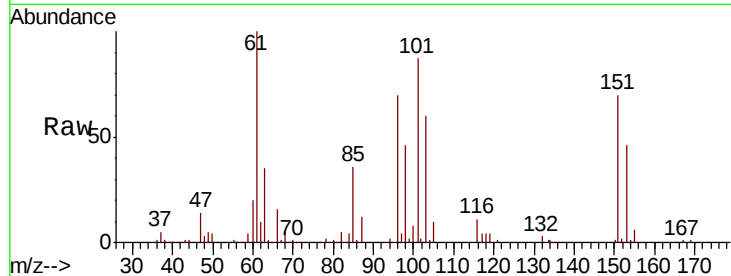
Tot Ion:101 Resp: 32744

Ion Ratio Lower Upper

101 100

85 43.6 0.0 87.2

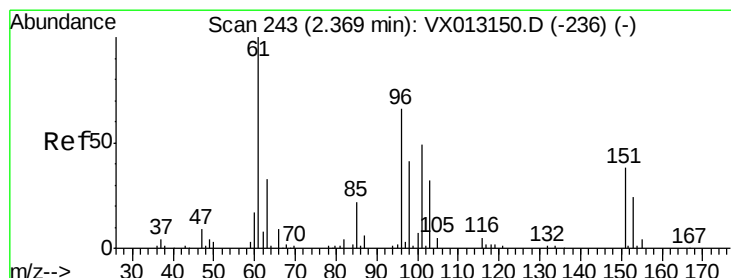
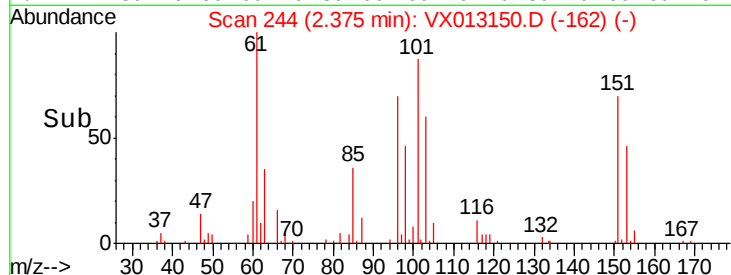
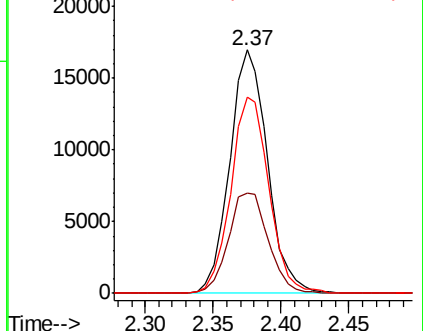
151 81.5 0.0 163.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 19.699 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

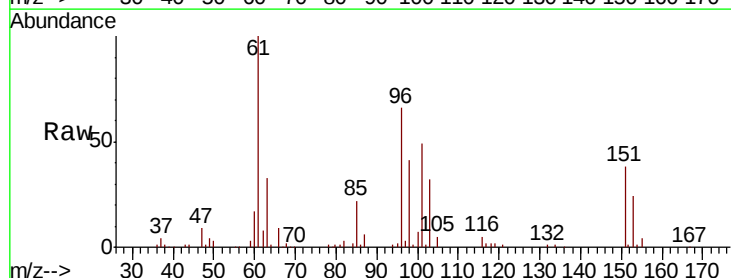
Tgt Ion: 96 Resp: 32501

Ion Ratio Lower Upper

96 100

61 151.6 121.3 181.9

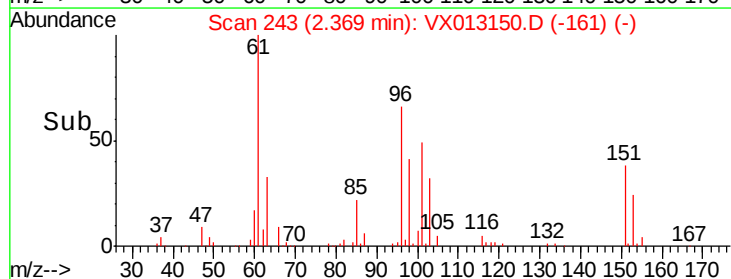
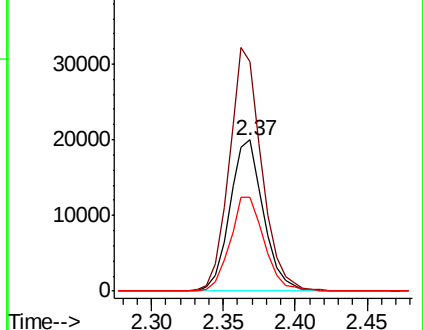
98 61.9 49.5 74.3

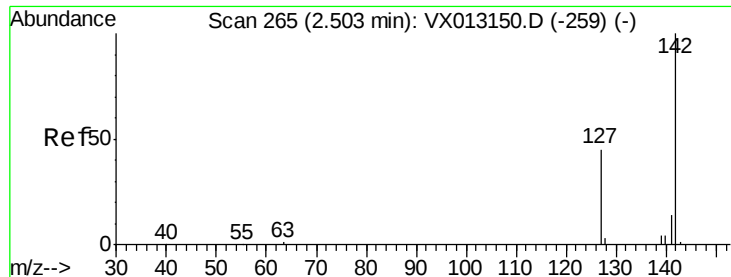


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

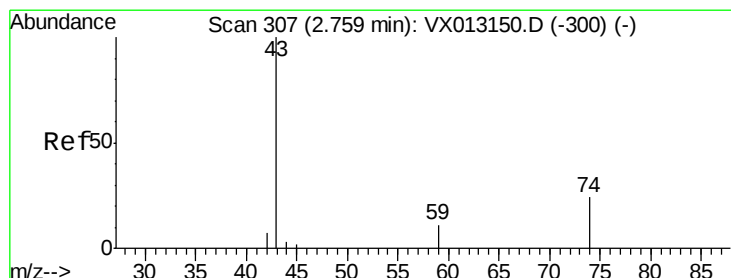
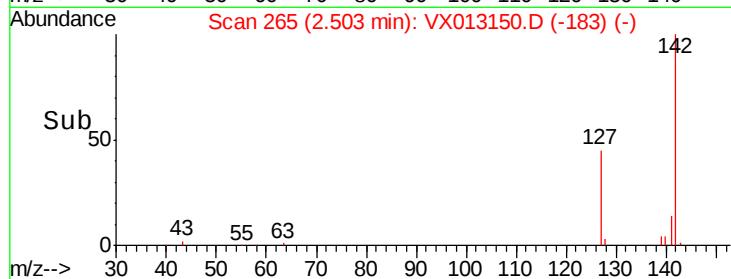
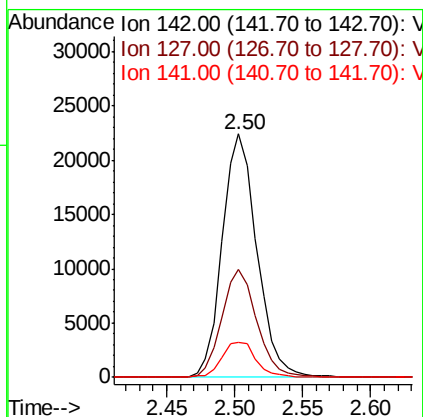
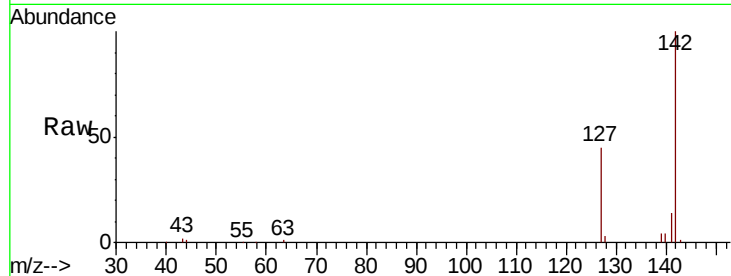




#11  
Methyl Iodide  
Concen: 19.377 ug/l  
RT: 2.50 min Scan# 265  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

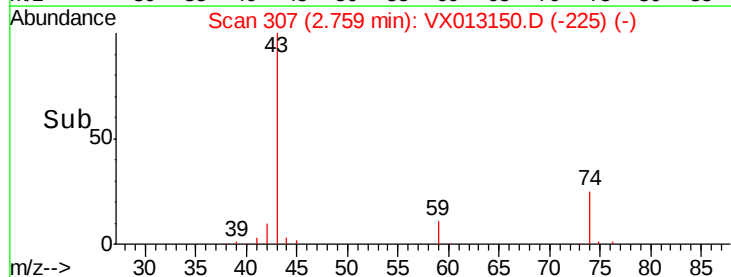
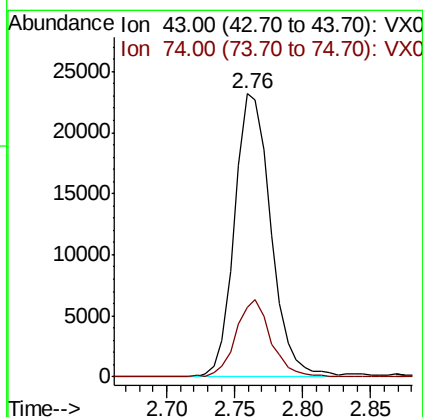
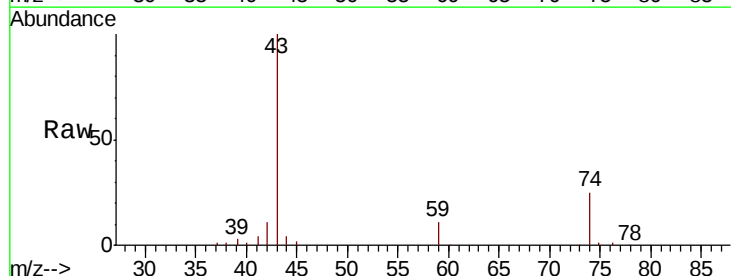
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

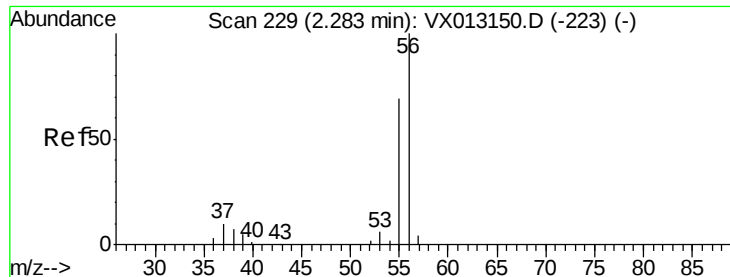
Tot Ion:142 Resp: 39697  
Ion Ratio Lower Upper  
142 100  
127 44.6 22.3 66.9  
141 14.2 7.1 21.3



#12  
Methyl Acetate  
Concen: 18.828 ug/l  
RT: 2.76 min Scan# 307  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 43 Resp: 43067  
Ion Ratio Lower Upper  
43 100  
74 24.6 19.7 29.5





#13

Acrolein

Concen: 99.815 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

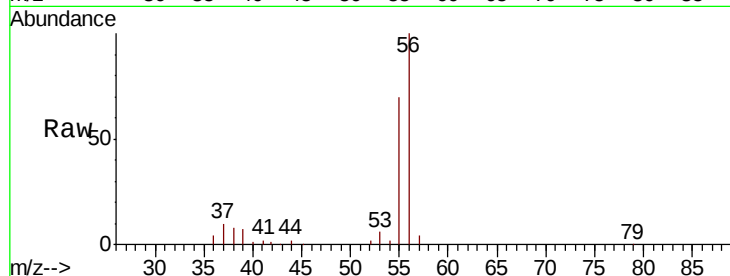
VSTDICCC020

Tot Ion: 56 Resp: 33380

Ion Ratio Lower Upper

56 100

55 69.8 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

20000

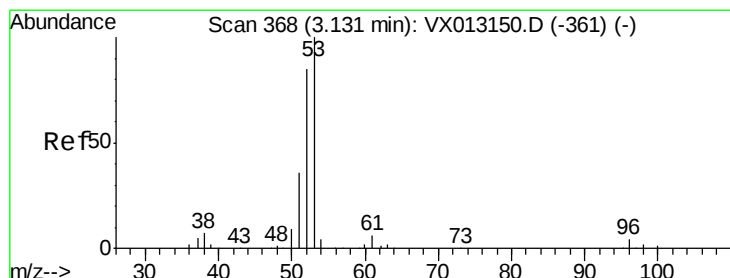
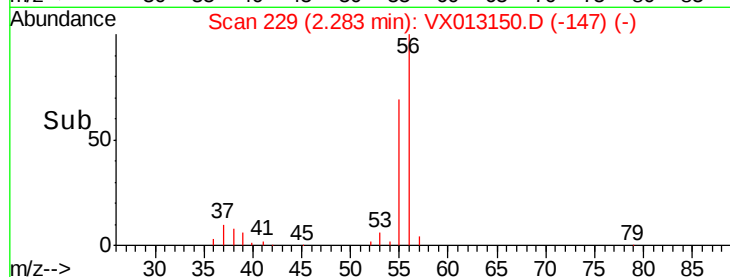
15000

10000

5000

0

Time-->



#14

Acrylonitrile

Concen: 94.501 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

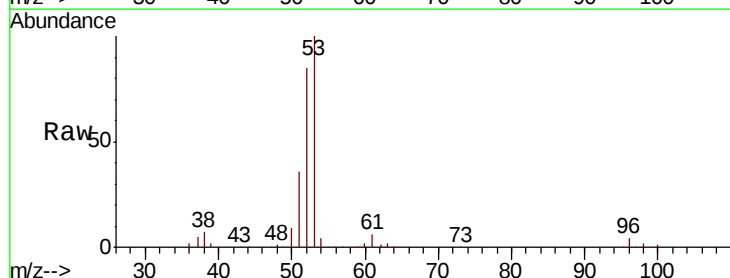
Tgt Ion: 53 Resp: 90114

Ion Ratio Lower Upper

53 100

52 84.0 42.0 126.0

51 37.3 18.6 56.0



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

3.13

60000

50000

40000

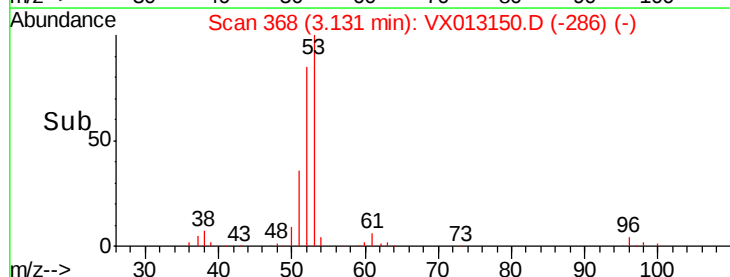
30000

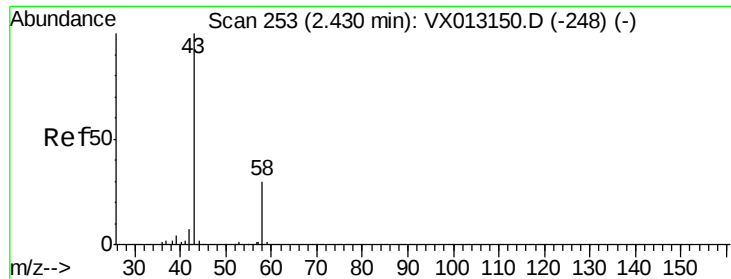
20000

10000

0

Time-->





#15

Acetone

Concen: 95.567 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

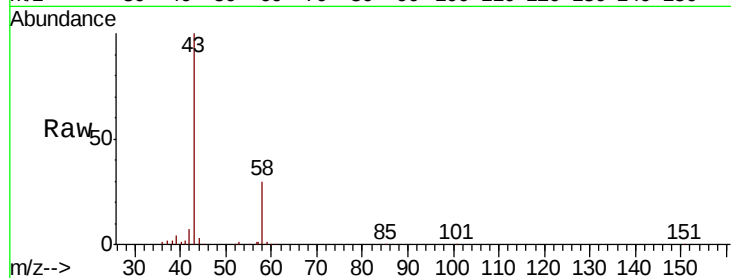
VSTDICCC020

Tot Ion: 58 Resp: 31089

Ion Ratio Lower Upper

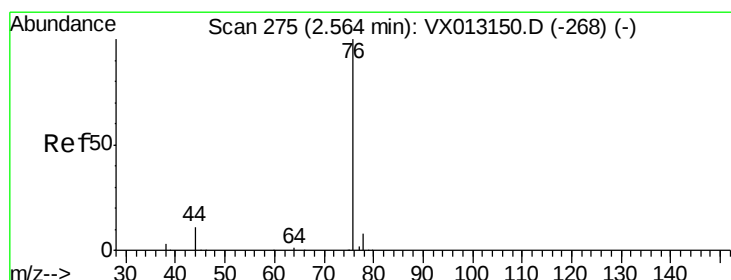
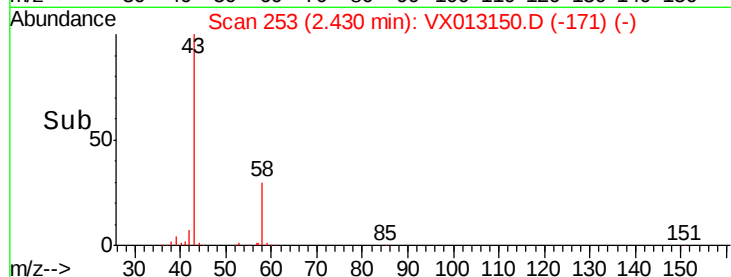
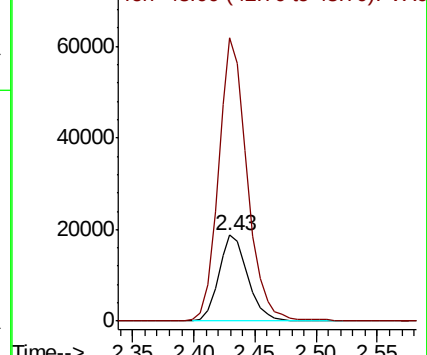
58 100

43 328.5 262.8 394.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 19.092 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX013150.D

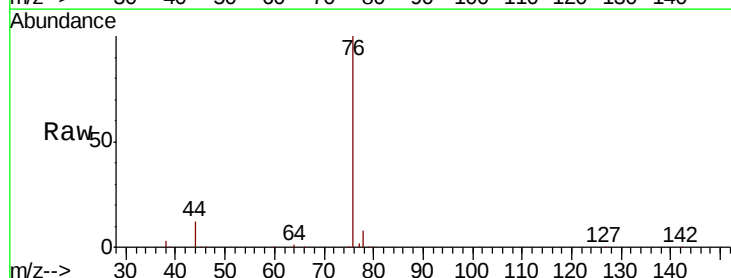
Acq: 21 Oct 2019 12:37

Tgt Ion: 76 Resp: 85014

Ion Ratio Lower Upper

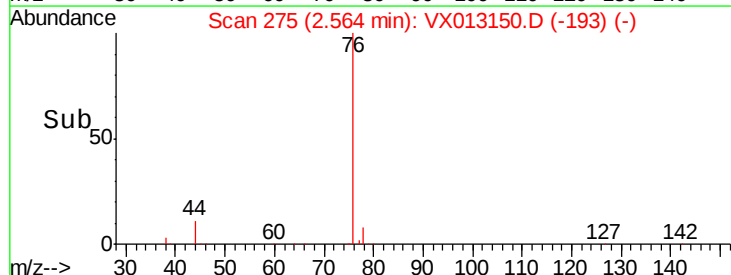
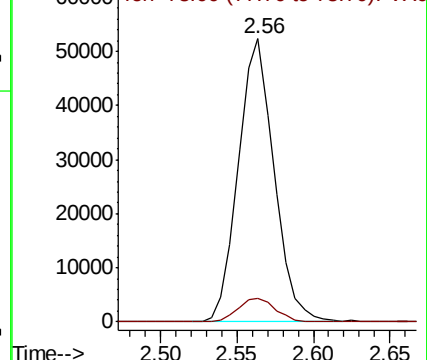
76 100

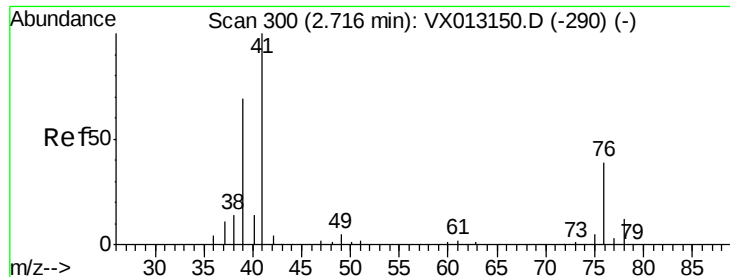
78 8.3 6.6 10.0



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#17

Allvl chloride

Concen: 18.697 ug/l

RT: 2.72 min Scan# 300

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

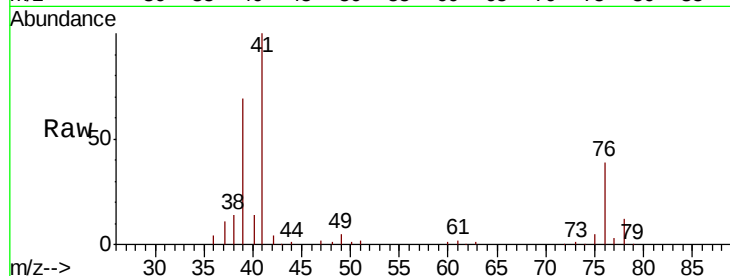
Tot Ion: 41 Resp: 51772

Ion Ratio Lower Upper

41 100

39 69.4 34.7 104.1

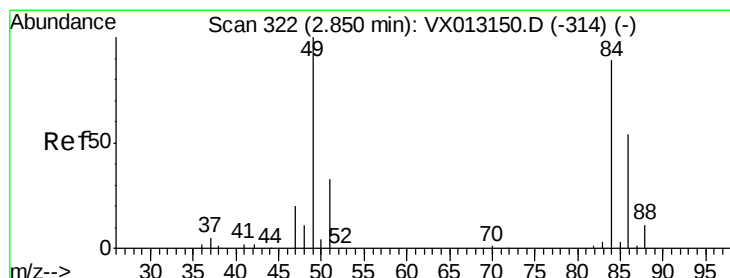
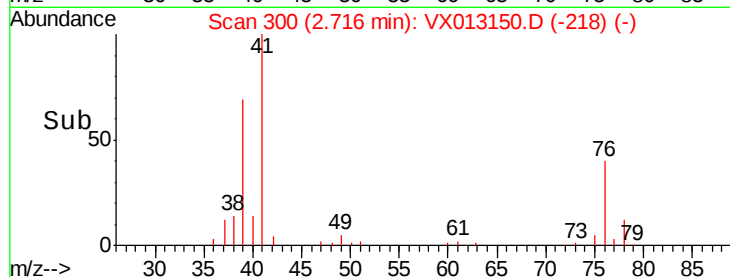
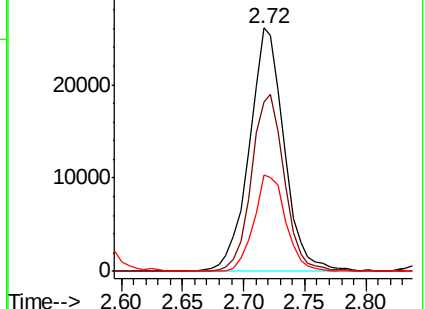
76 39.3 19.7 59.0



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0



#18

Methylene Chloride

Concen: 19.863 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Tgt Ion: 84 Resp: 37254

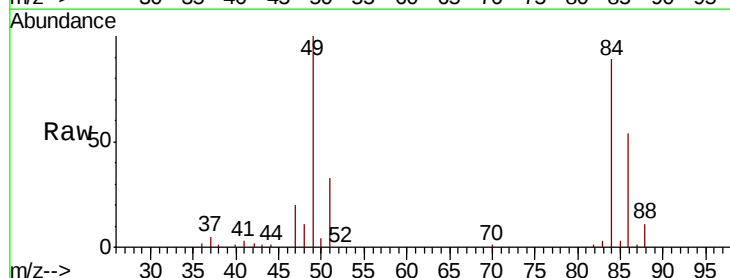
Ion Ratio Lower Upper

84 100

49 112.9 90.3 135.5

51 37.4 29.9 44.9

86 61.2 49.0 73.4

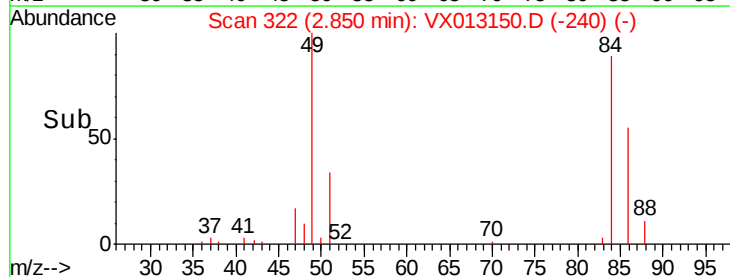
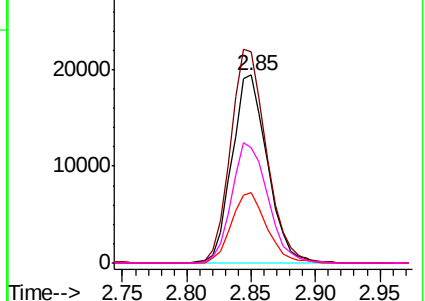


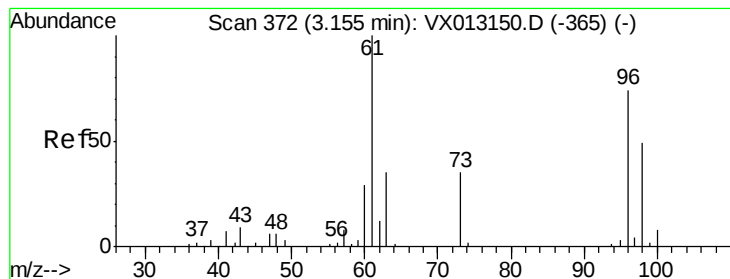
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#19

trans-1,2-Dichloroethene

Concen: 19.618 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

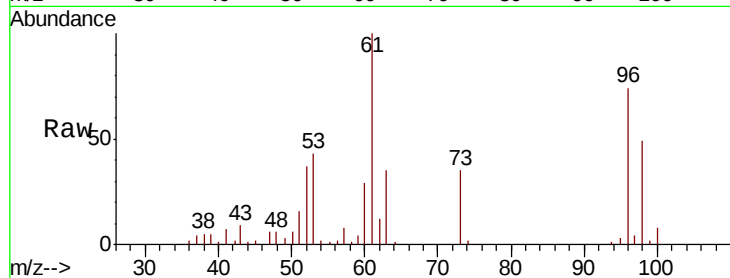
Tot Ion: 96 Resp: 34536

Ion Ratio Lower Upper

96 100

61 135.7 108.6 162.8

98 66.7 53.4 80.0

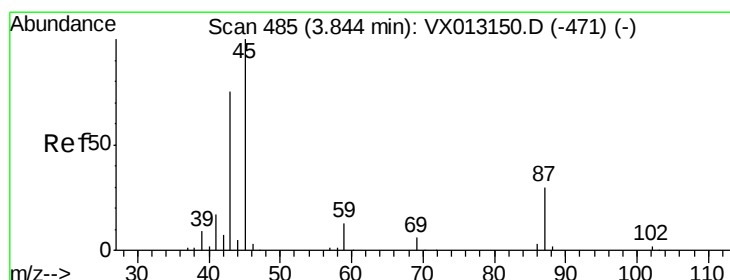
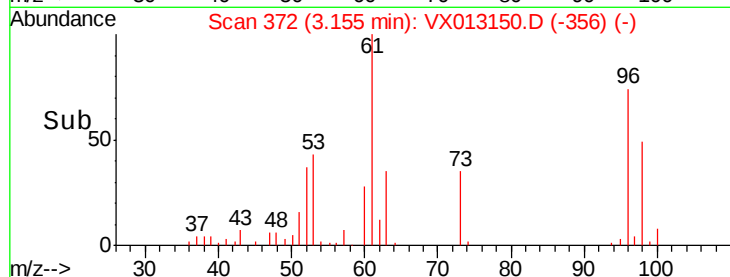
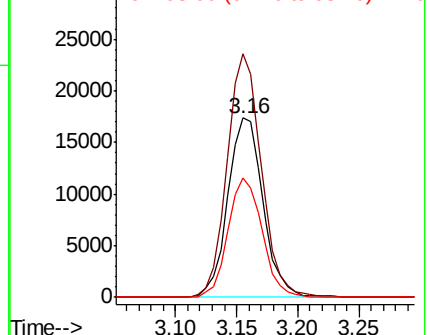


Abundance

Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#20

Diisopropyl ether

Concen: 19.248 ug/l

RT: 3.84 min Scan# 485

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Tgt Ion: 45 Resp: 101971

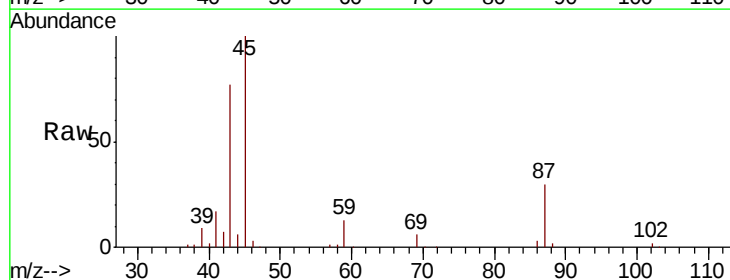
Ion Ratio Lower Upper

45 100

43 75.8 60.6 91.0

87 30.2 24.2 36.2

59 13.1 10.5 15.7



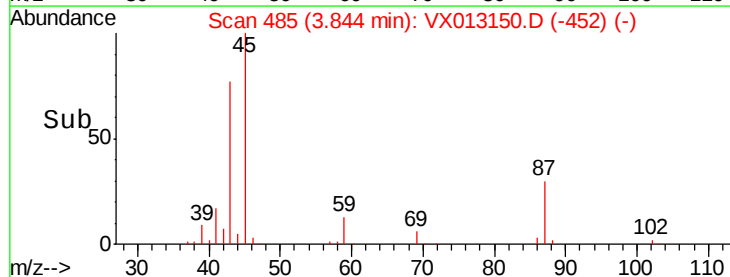
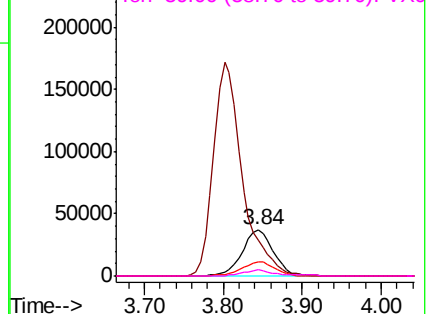
Abundance

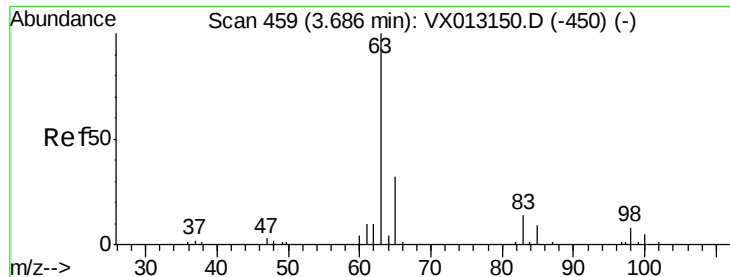
Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0

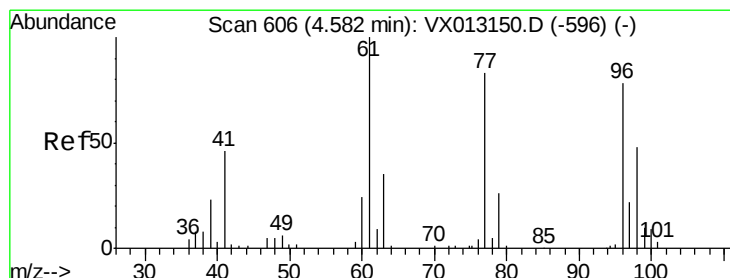
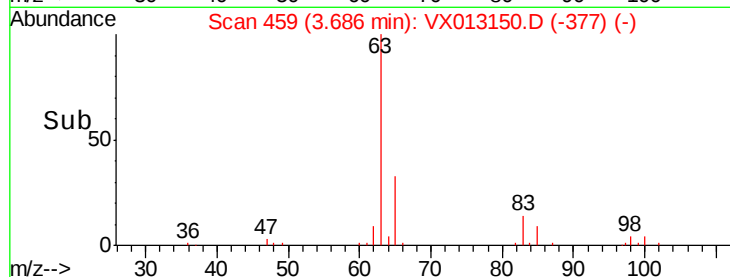
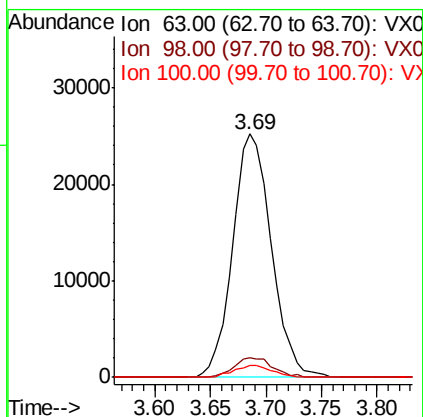
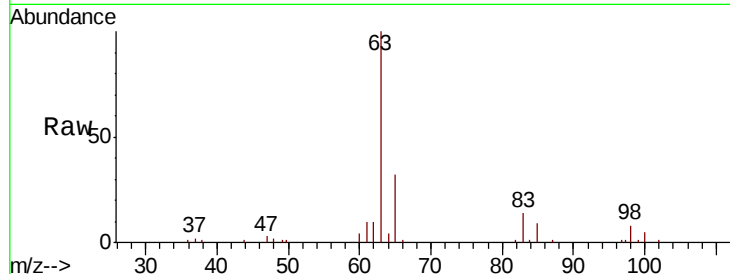




#21  
1,1-Dichloroethane  
Concen: 19.712 ug/l  
RT: 3.69 min Scan# 459  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

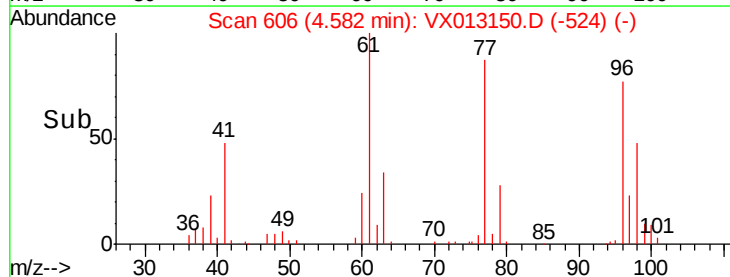
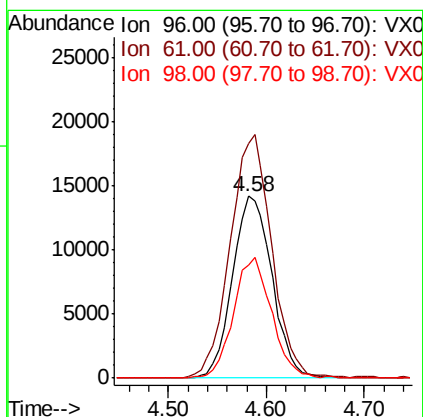
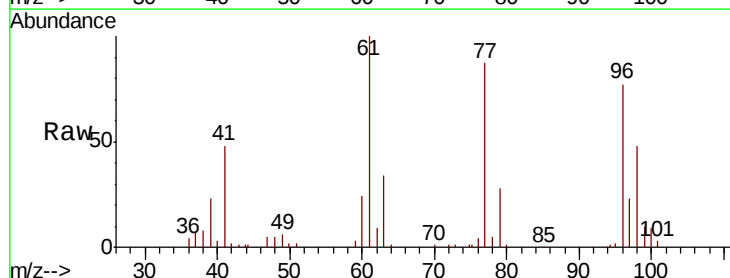
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

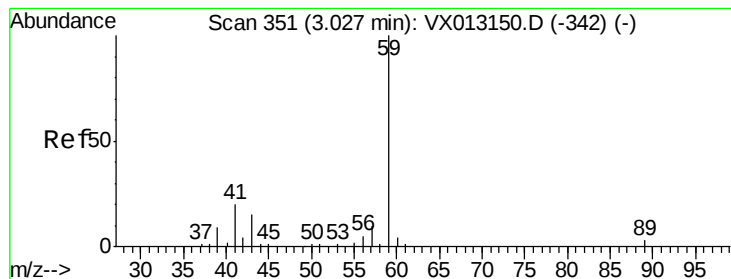
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 8.3   | 4.2   | 12.4  |
| 100     | 4.8   | 2.4   | 7.2   |



#22  
cis-1,2-Dichloroethene  
Concen: 19.572 ug/l  
RT: 4.58 min Scan# 606  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 140.6 | 112.5 | 168.7 |
| 98      | 64.0  | 51.2  | 76.8  |



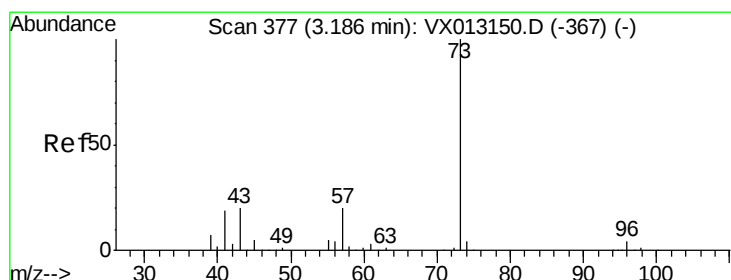
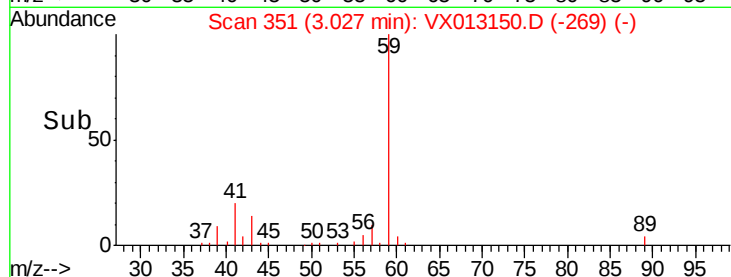
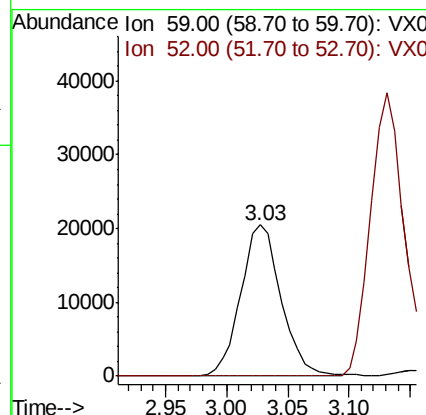
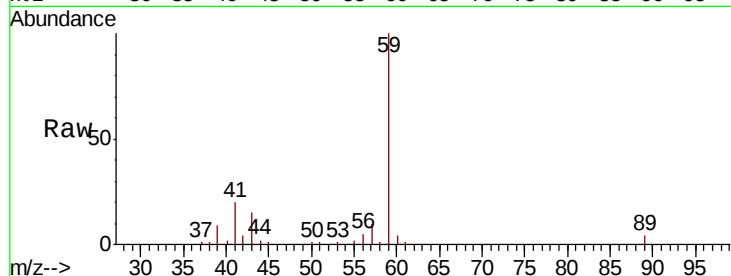


#23

tert-Butyl Alcohol  
 Concen: 96.777 ug/l  
 RT: 3.03 min Scan# 351  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

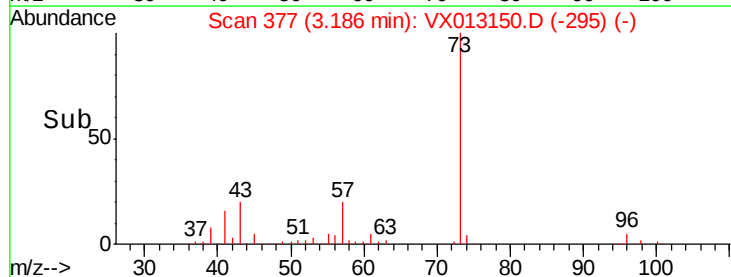
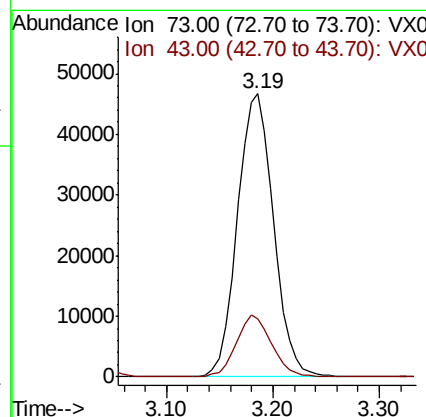
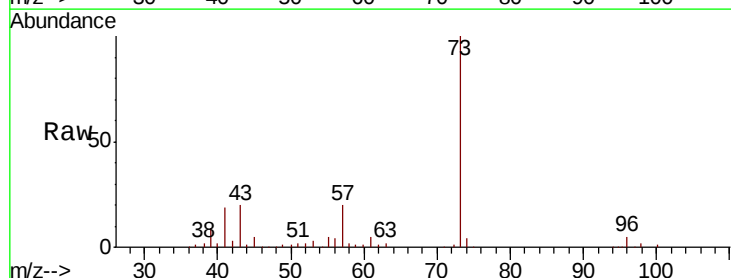
Tot Ion: 59 Resp: 47003  
 Ion Ratio Lower Upper  
 59 100  
 52 0.0 0.0 0.0

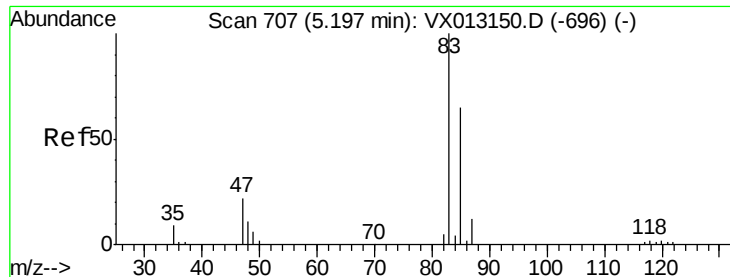


#24

Methyl tert-Butyl Ether  
 Concen: 19.797 ug/l  
 RT: 3.19 min Scan# 377  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Tgt Ion: 73 Resp: 111052  
 Ion Ratio Lower Upper  
 73 100  
 43 21.4 17.1 25.7

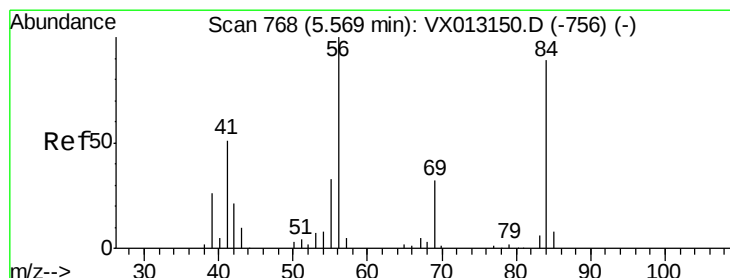
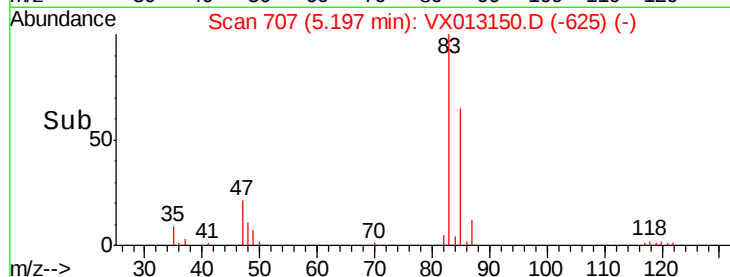
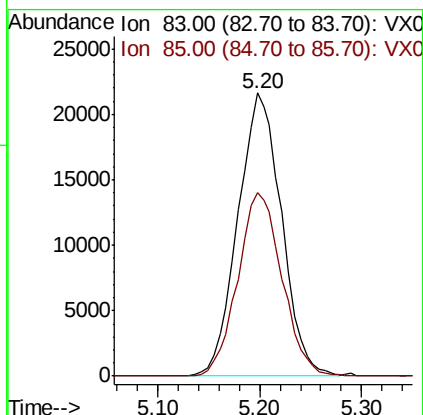
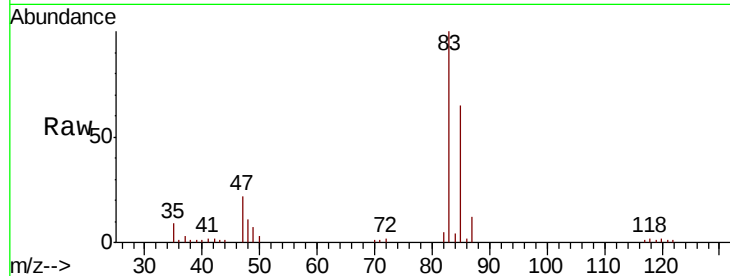




#25  
Chloroform  
Concen: 20.047 ug/l  
RT: 5.20 min Scan# 707  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

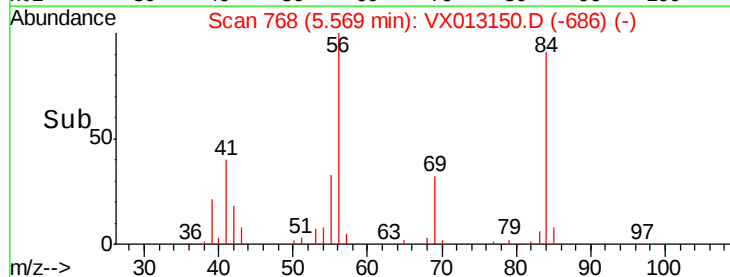
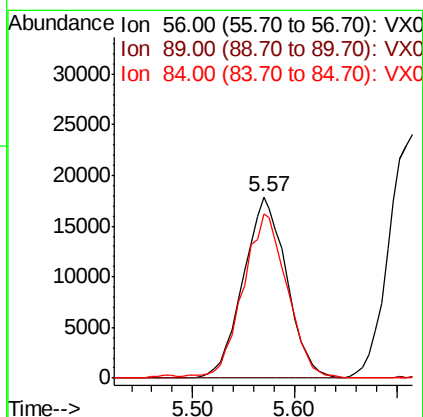
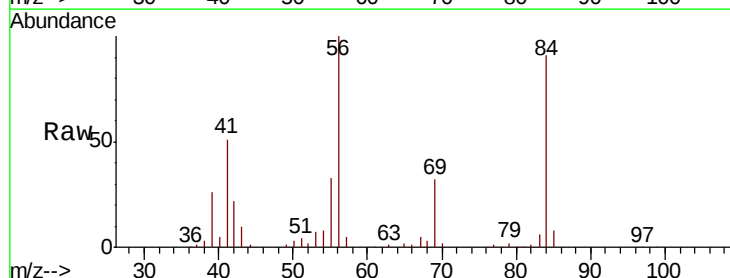
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

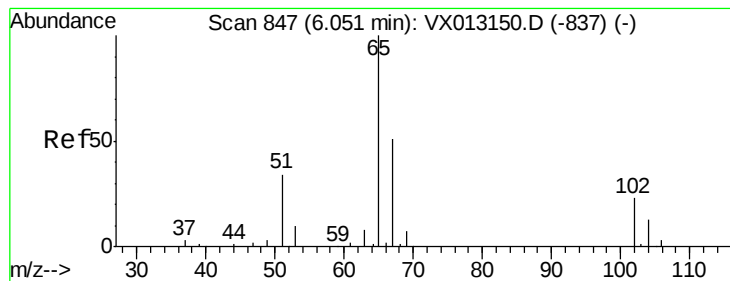
Tot Ion: 83 Resp: 64142  
Ion Ratio Lower Upper  
83 100  
85 65.0 52.0 78.0



#26  
Cyclohexane  
Concen: 18.958 ug/l  
RT: 5.57 min Scan# 768  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 56 Resp: 52765  
Ion Ratio Lower Upper  
56 100  
89 0.2 0.2 0.2  
84 92.5 74.0 111.0





#27

1,2-Dichloroethane-d4

Concen: 30.462 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

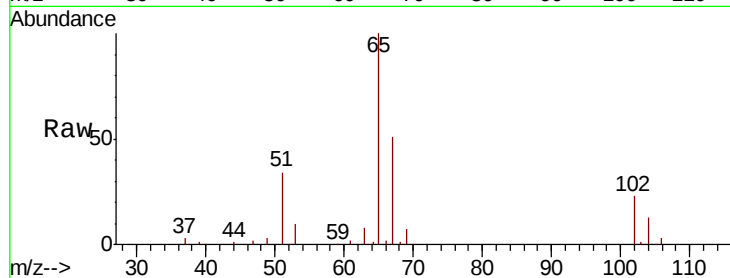
VSTDICCC020

Tot Ion: 65 Resp: 63757

Ion Ratio Lower Upper

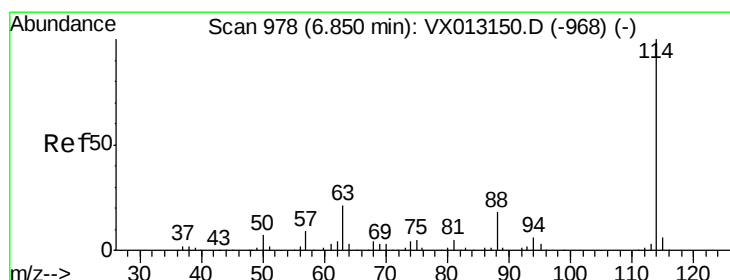
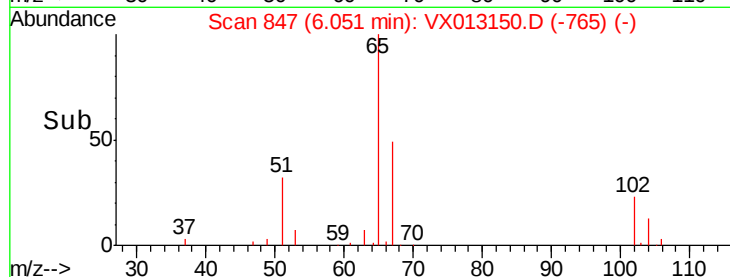
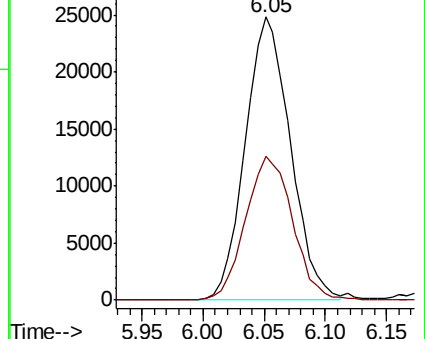
65 100

67 52.8 42.2 63.4



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

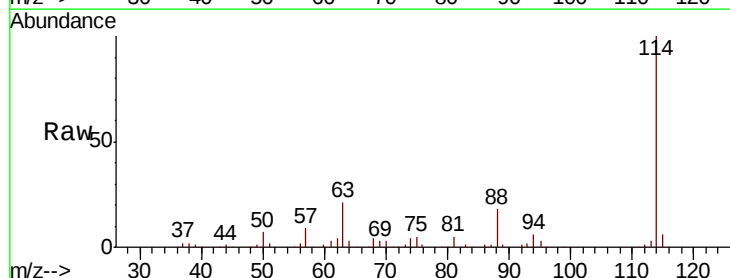
Tgt Ion: 114 Resp: 153840

Ion Ratio Lower Upper

114 100

63 20.1 16.1 24.1

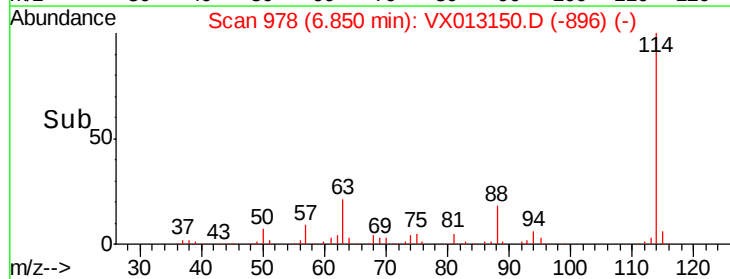
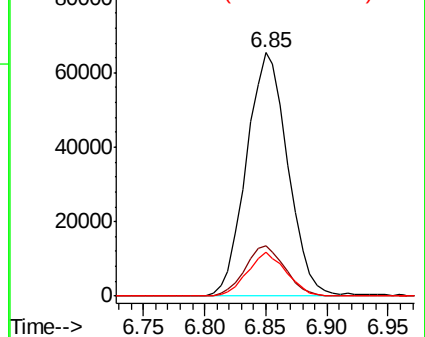
88 17.1 13.7 20.5

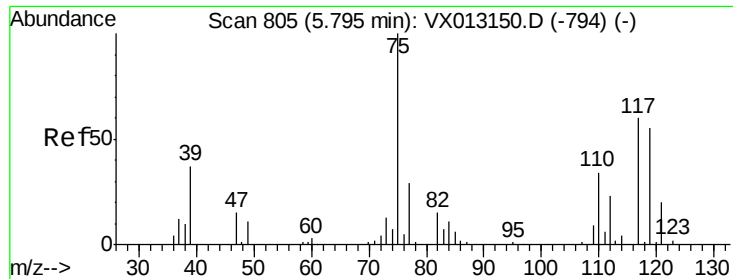


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

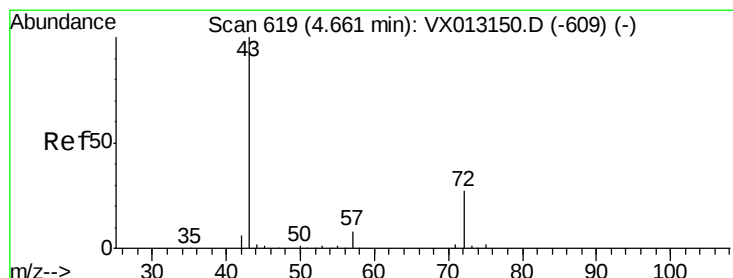
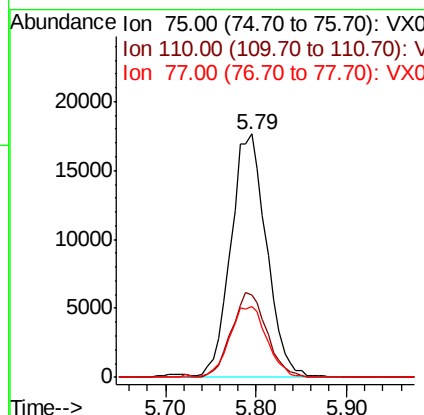
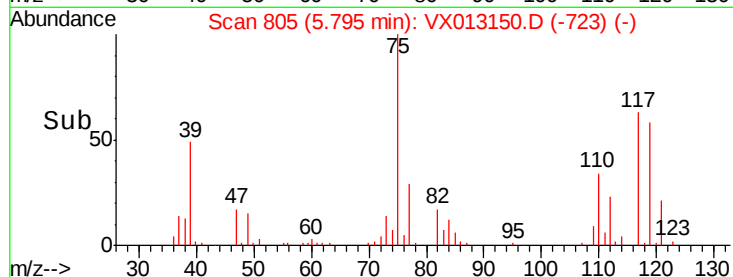
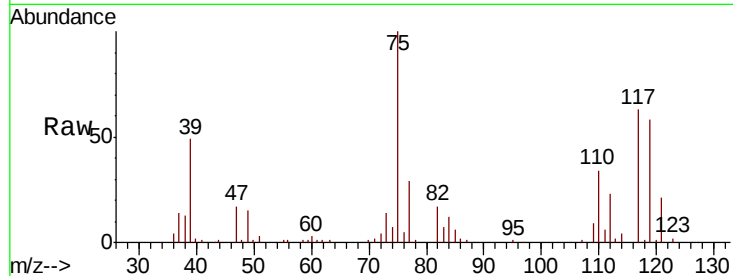




#29  
 1,1-Dichloropropene  
 Concen: 20.341 ug/l  
 RT: 5.79 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

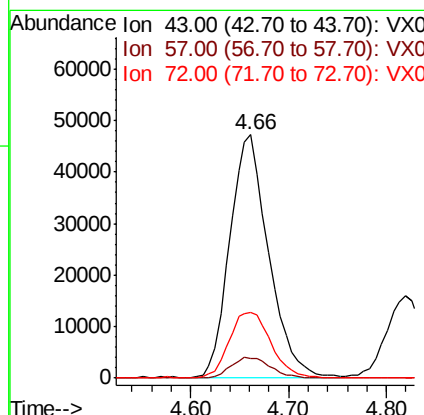
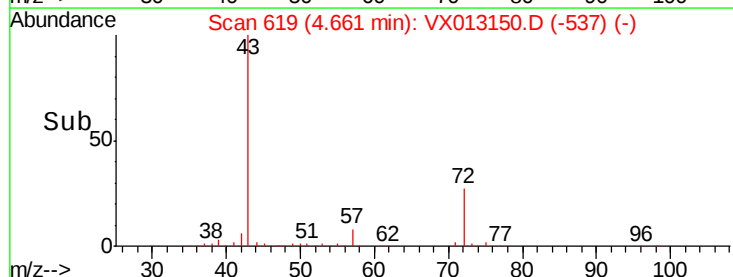
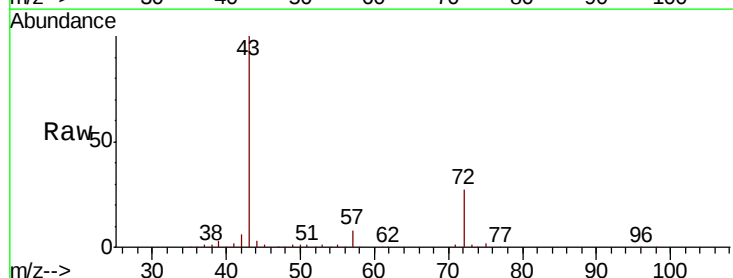
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

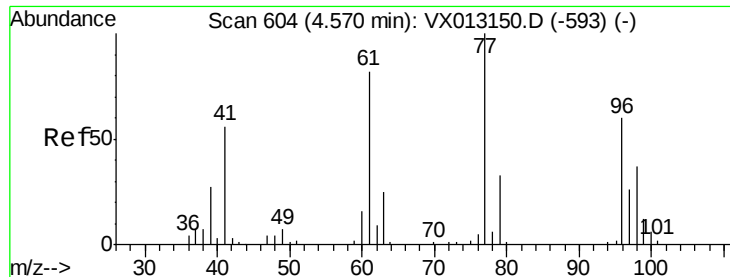
Tot Ion: 75 Resp: 48370  
 Ion Ratio Lower Upper  
 75 100  
 110 34.2 0.0 68.4  
 77 15.4 0.0 30.8



#30  
 2-Butanone  
 Concen: 95.241 ug/l  
 RT: 4.66 min Scan# 619  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Tgt Ion: 43 Resp: 129477  
 Ion Ratio Lower Upper  
 43 100  
 57 8.8 7.0 10.6  
 72 29.3 23.4 35.2





#31

2,2-Dichloropropane

Concen: 20.502 ug/l

RT: 4.57 min Scan# 604

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

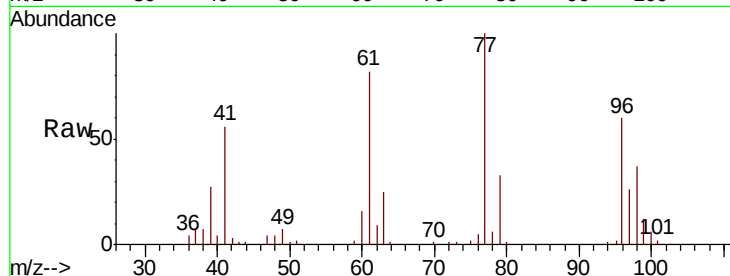
VSTDICCC020

Tot Ion: 77 Resp: 54818

Ion Ratio Lower Upper

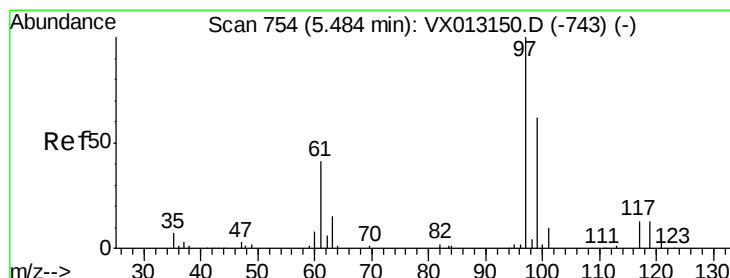
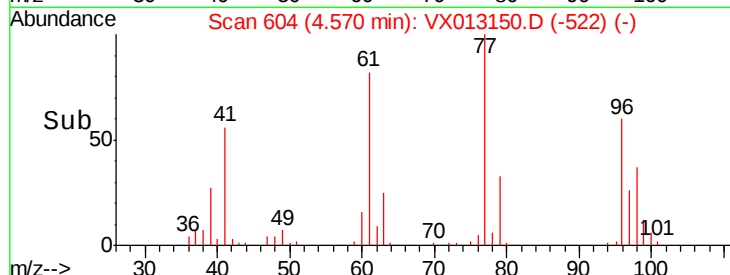
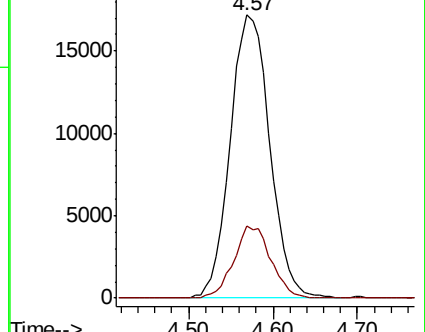
77 100

97 23.9 19.1 28.7



Abundance Ion 77.00 (76.70 to 77.70): VX0

Ion 97.00 (96.70 to 97.70): VX0



#32

1,1,1-Trichloroethane

Concen: 20.609 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

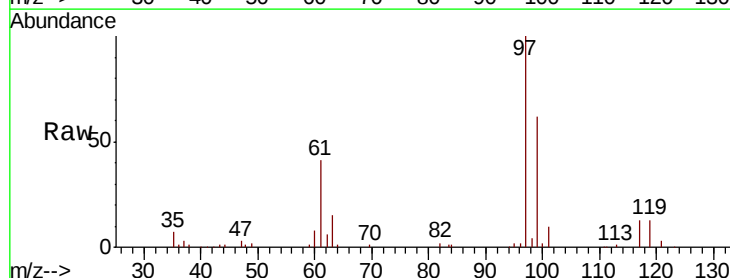
Tgt Ion: 97 Resp: 57455

Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.8

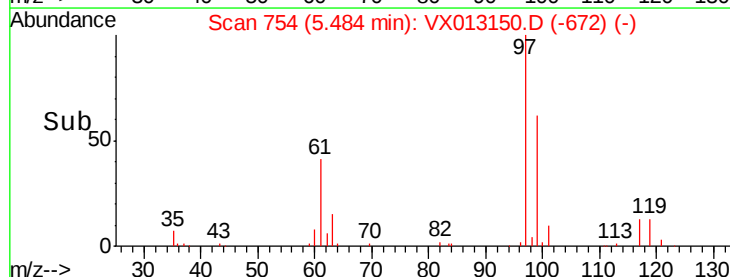
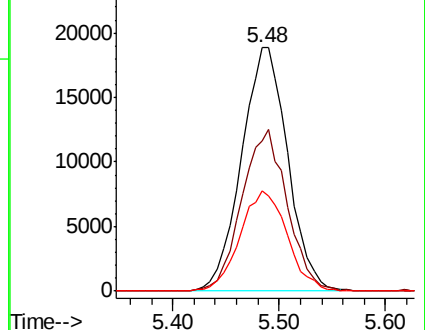
61 41.9 33.5 50.3

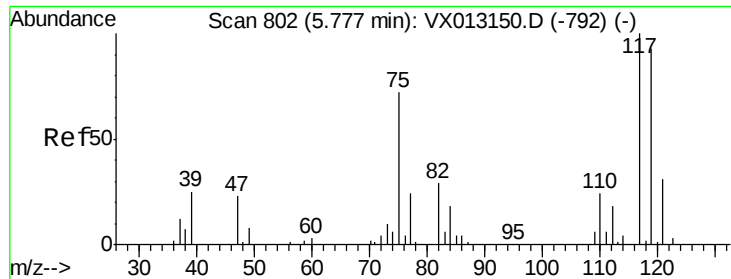


Abundance Ion 97.00 (96.70 to 97.70): VX0

Ion 99.00 (98.70 to 99.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

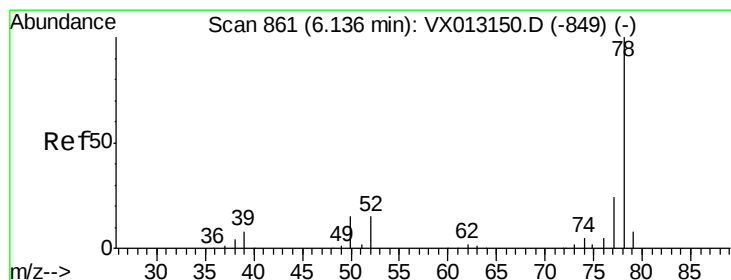
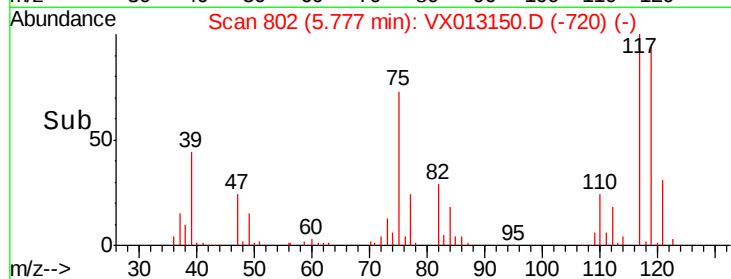
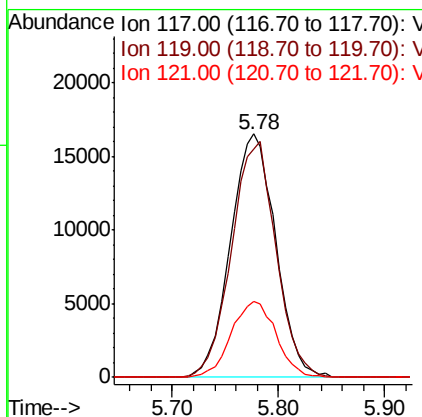
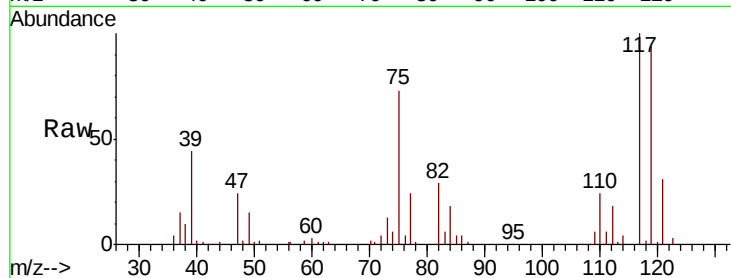




#33  
Carbon Tetrachloride  
Concen: 20.549 ug/l  
RT: 5.78 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

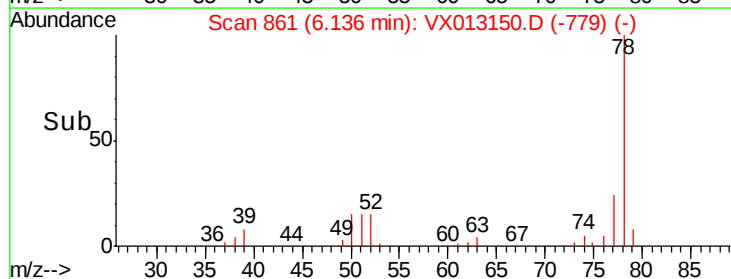
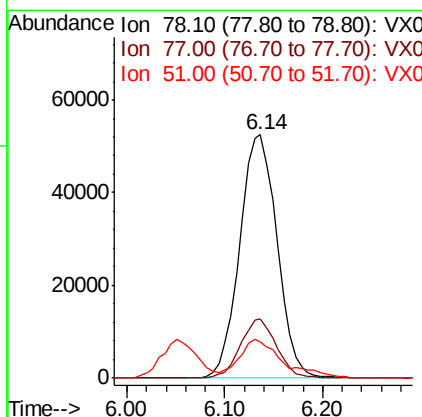
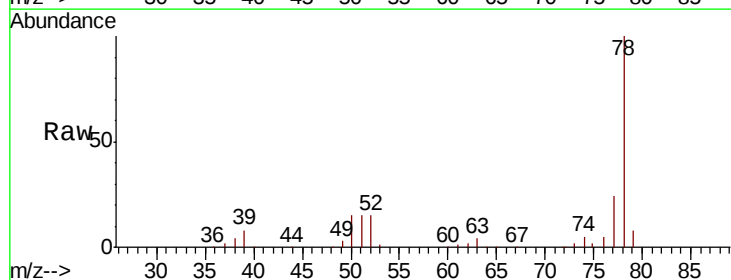
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

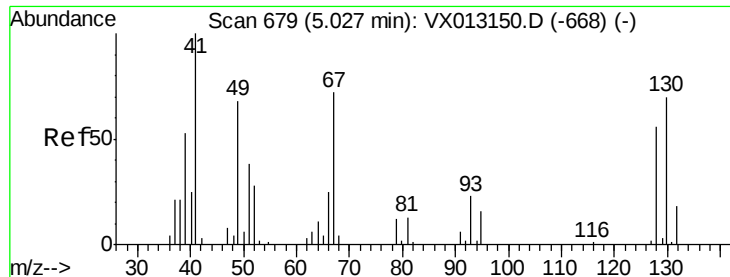
Tot Ion:117 Resp: 49135  
Ion Ratio Lower Upper  
117 100  
119 93.6 74.9 112.3  
121 31.2 25.0 37.4



#34  
Benzene  
Concen: 20.058 ug/l  
RT: 6.14 min Scan# 861  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 78 Resp: 139970  
Ion Ratio Lower Upper  
78 100  
77 24.1 19.3 28.9  
51 14.3 11.4 17.2

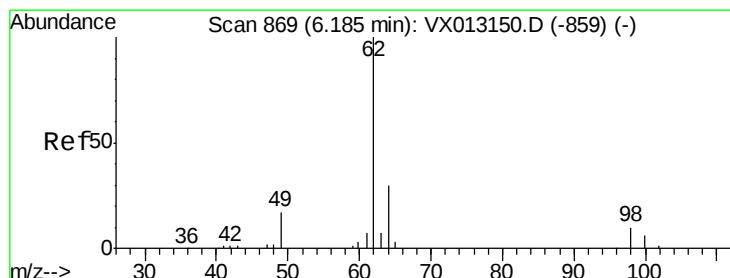
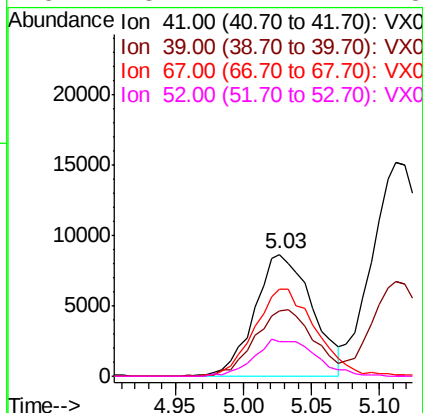
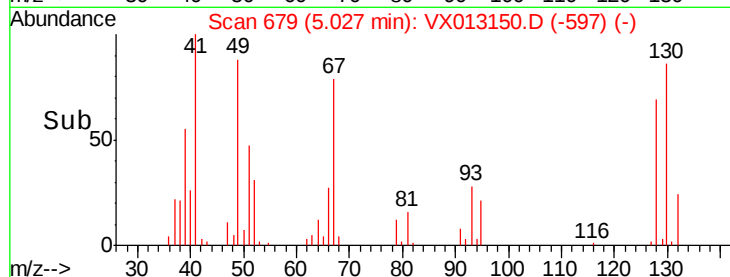
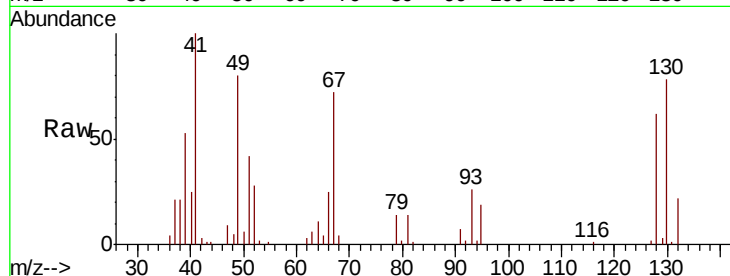




#35  
Methacrylonitrile  
Concen: 18.984 ug/l  
RT: 5.03 min Scan# 679  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

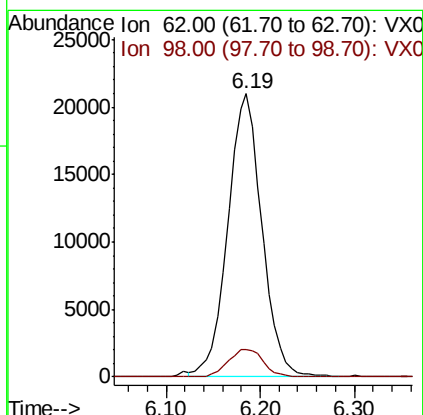
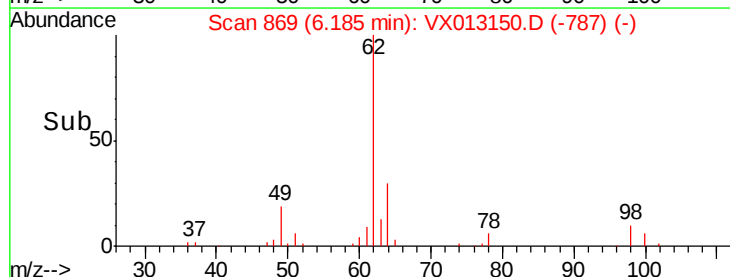
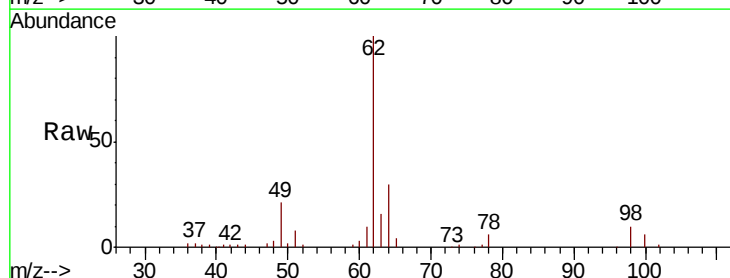
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

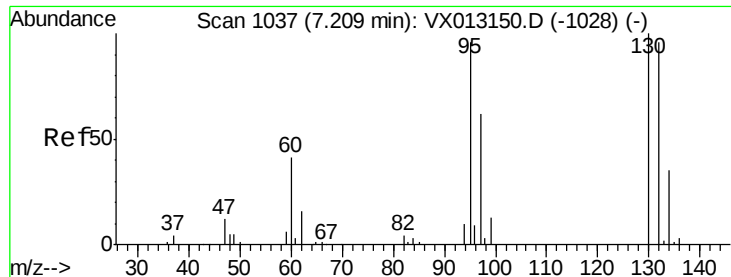
Tot Ion: 41 Resp: 25560  
Ion Ratio Lower Upper  
41 100  
39 52.6 26.3 78.9  
67 71.6 35.8 107.4  
52 28.2 14.1 42.3



#36  
1,2-Dichloroethane  
Concen: 20.760 ug/l  
RT: 6.19 min Scan# 869  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 62 Resp: 52924  
Ion Ratio Lower Upper  
62 100  
98 10.0 8.0 12.0

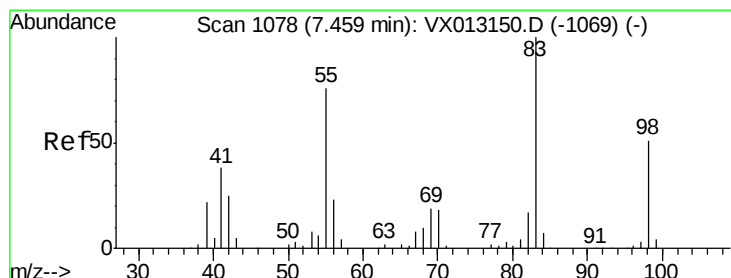
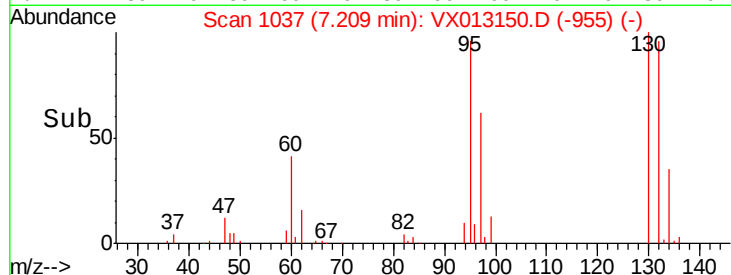
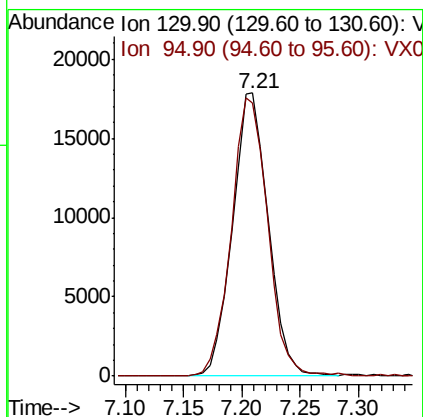
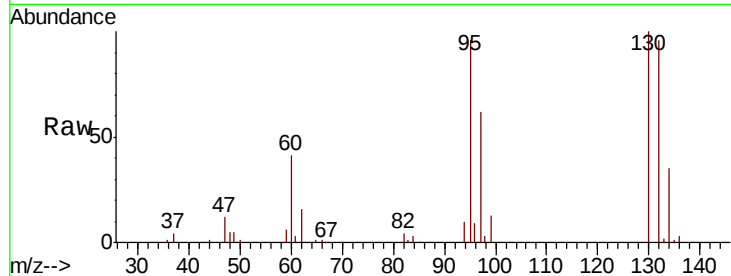




#37  
 Trichloroethene  
 Concen: 20.305 ug/l  
 RT: 7.21 min Scan# 1037  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

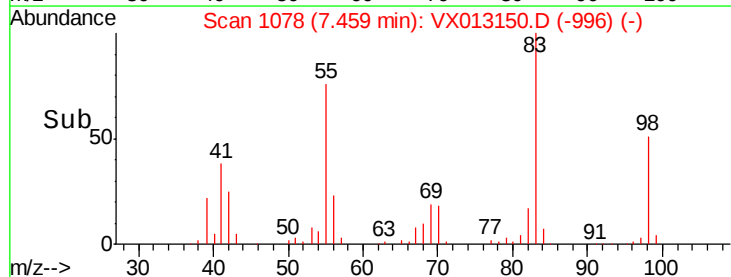
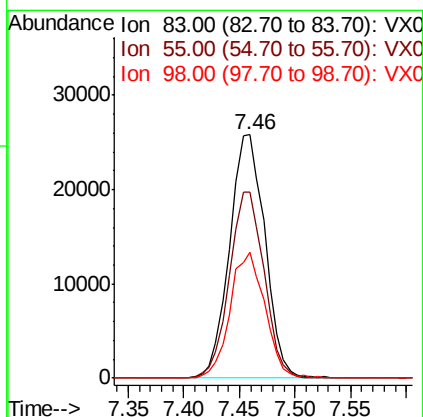
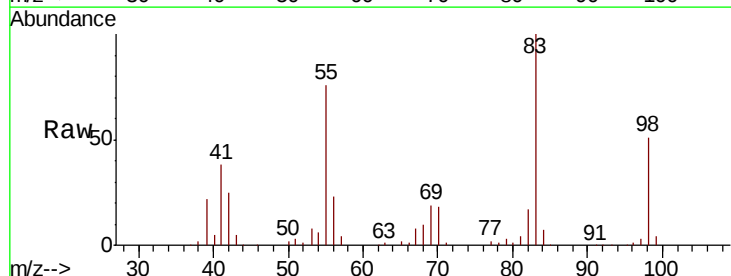
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

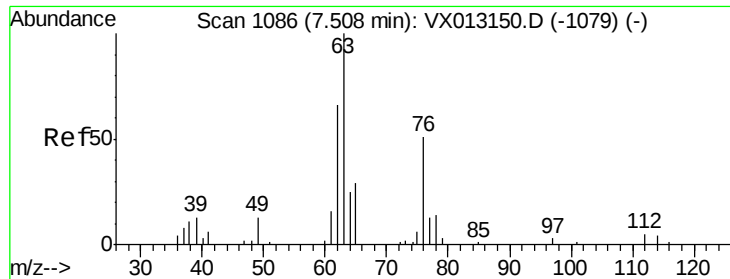
Tot Ion:130 Resp: 38205  
 Ion Ratio Lower Upper  
 130 100  
 95 96.3 77.0 115.6



#38  
 Methylcyclohexane  
 Concen: 19.659 ug/l  
 RT: 7.46 min Scan# 1078  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Tgt Ion: 83 Resp: 56866  
 Ion Ratio Lower Upper  
 83 100  
 55 75.0 37.5 112.5  
 98 50.7 25.4 76.0

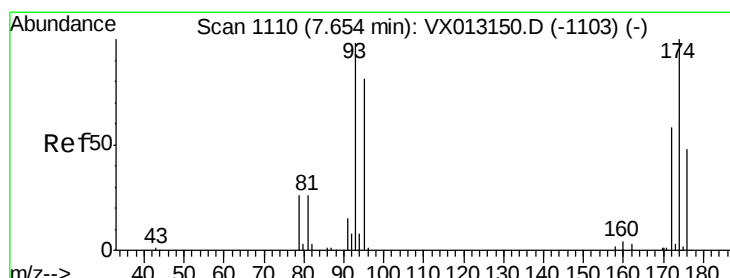
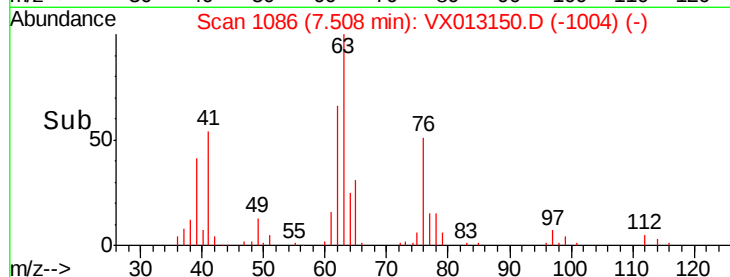
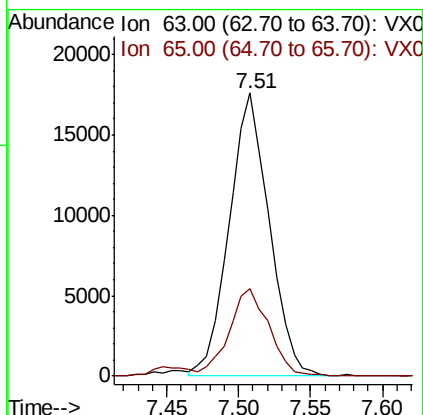
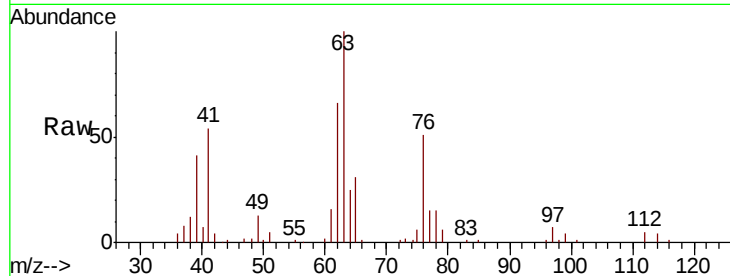




#39  
 1,2-Dichloropropane  
 Concen: 19.585 ug/l  
 RT: 7.51 min Scan# 1086  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

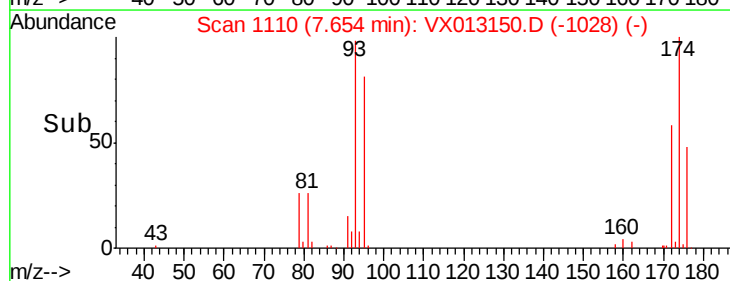
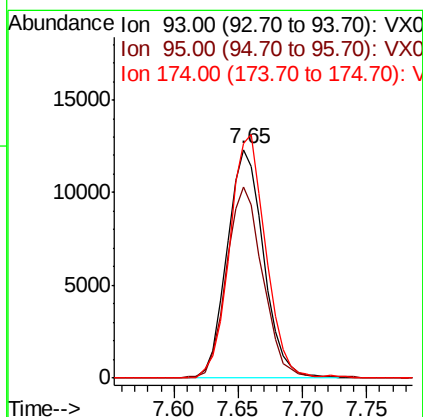
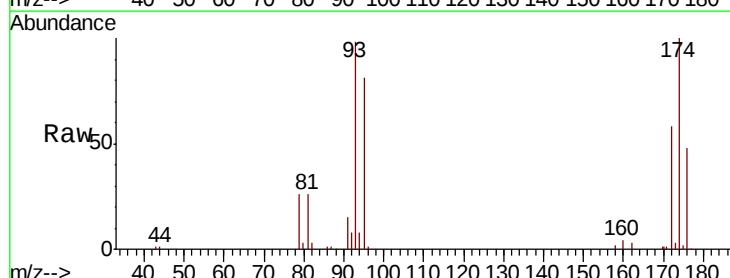
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

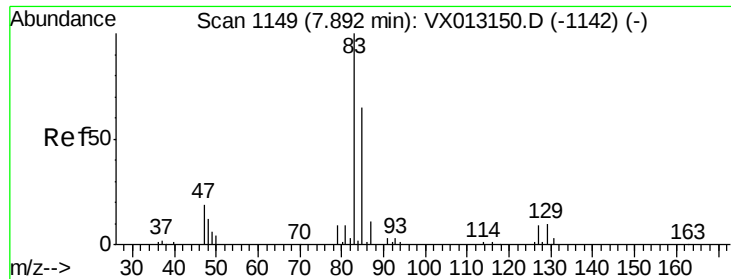
Tot Ion: 63 Resp: 34074  
 Ion Ratio Lower Upper  
 63 100  
 65 31.0 24.8 37.2



#40  
 Dibromomethane  
 Concen: 20.274 ug/l  
 RT: 7.65 min Scan# 1110  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Tgt Ion: 93 Resp: 24388  
 Ion Ratio Lower Upper  
 93 100  
 95 83.0 0.0 166.0  
 174 104.4 0.0 208.8





#41

Bromodichloromethane

Concen: 20.295 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

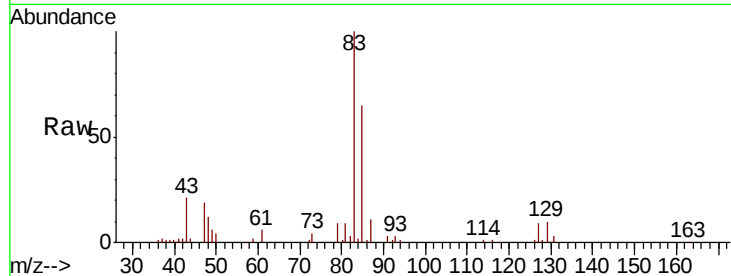
Tot Ion: 83 Resp: 48451

Ion Ratio Lower Upper

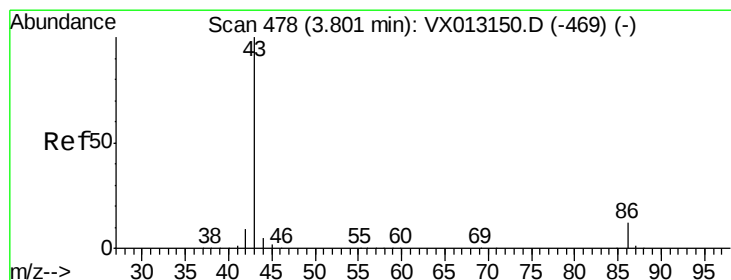
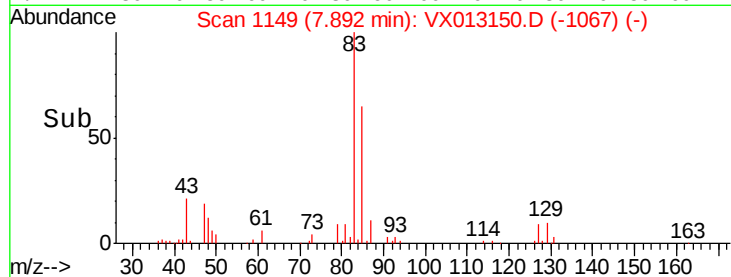
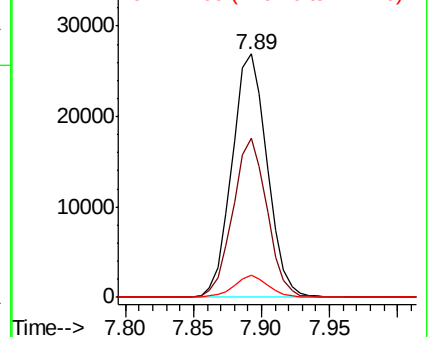
83 100

85 65.1 52.1 78.1

127 9.4 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VX0  
Ion 85.00 (84.70 to 85.70): VX0  
Ion 127.00 (126.70 to 127.70): V



#42

Vinyl Acetate

Concen: 97.731 ug/l

RT: 3.80 min Scan# 478

Delta R.T. 0.00 min

Lab File: VX013150.D

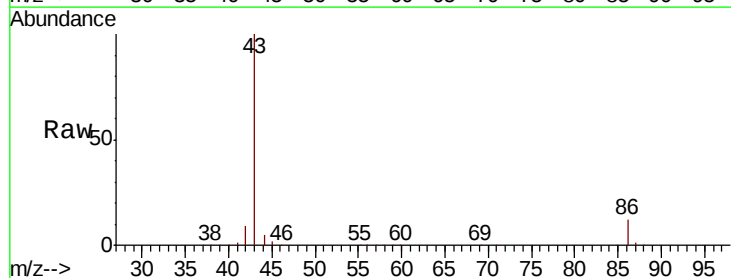
Acq: 21 Oct 2019 12:37

Tgt Ion: 43 Resp: 441131

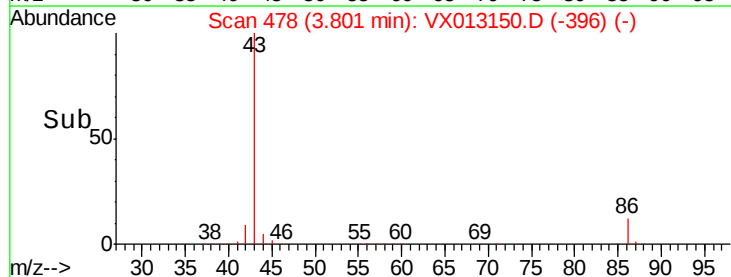
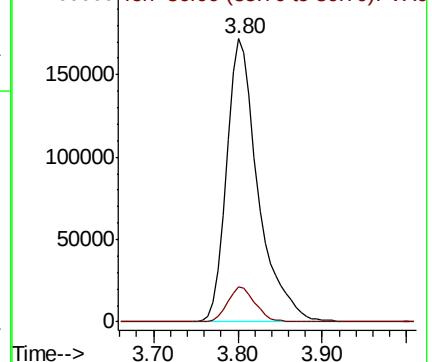
Ion Ratio Lower Upper

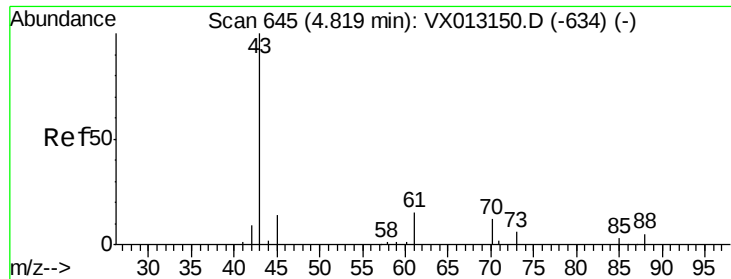
43 100

86 10.7 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 86.00 (85.70 to 86.70): VX0





#43

Ethyl Acetate

Concen: 18.231 ug/l

RT: 4.82 min Scan# 645

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampled :

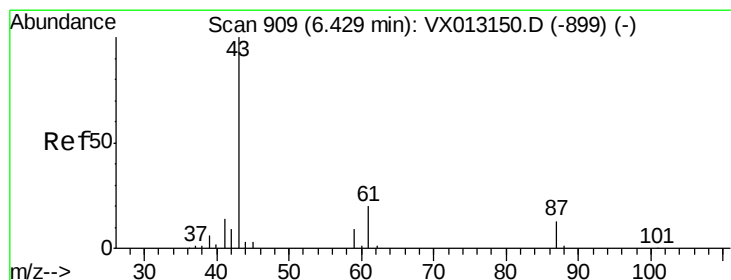
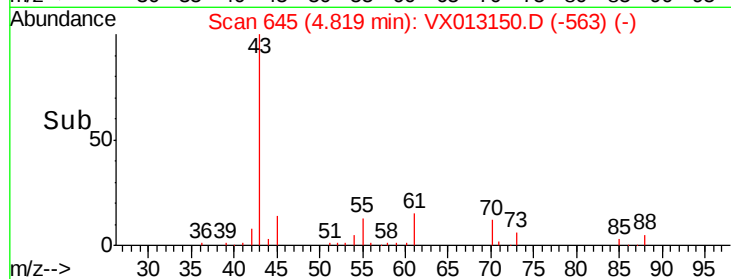
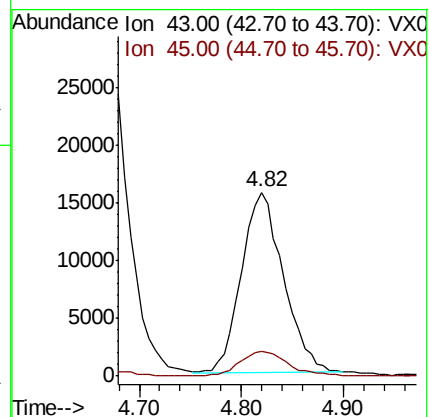
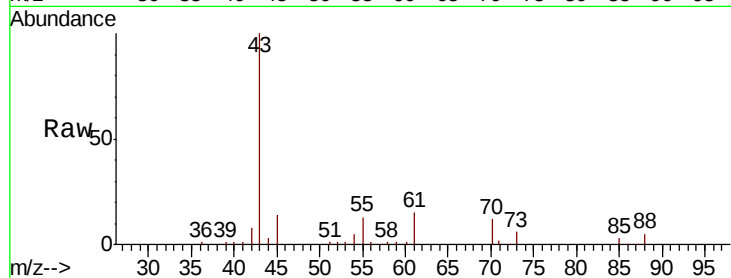
VSTDICCC020

Tot Ion: 43 Resp: 44985

Ion Ratio Lower Upper

43 100

45 15.7 12.6 18.8



#44

Isopropyl Acetate

Concen: 19.515 ug/l

RT: 6.43 min Scan# 909

Delta R.T. 0.00 min

Lab File: VX013150.D

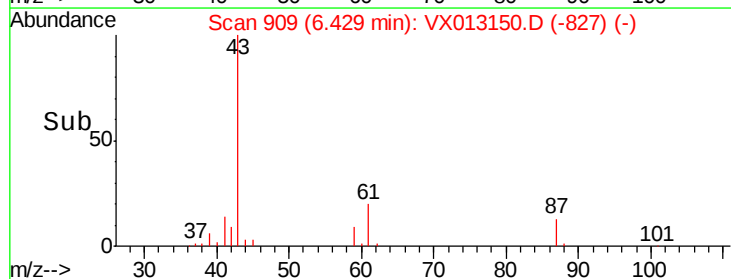
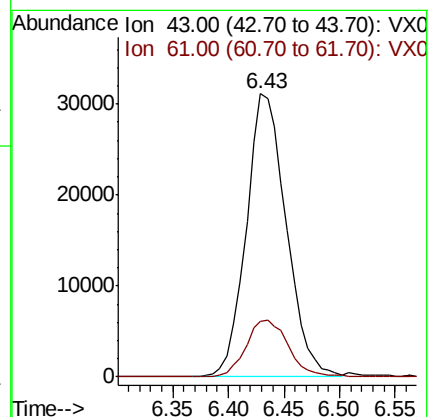
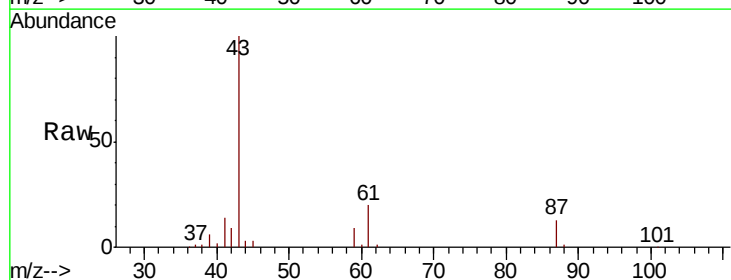
Acq: 21 Oct 2019 12:37

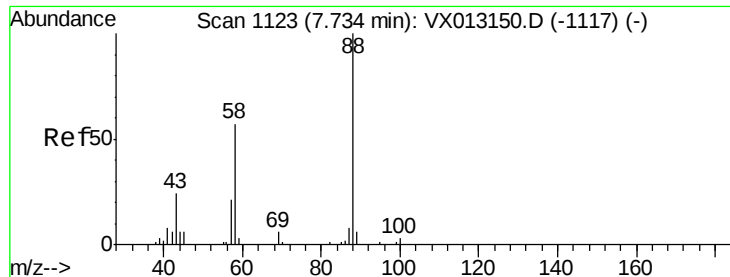
Tgt Ion: 43 Resp: 77870

Ion Ratio Lower Upper

43 100

61 21.0 16.8 25.2

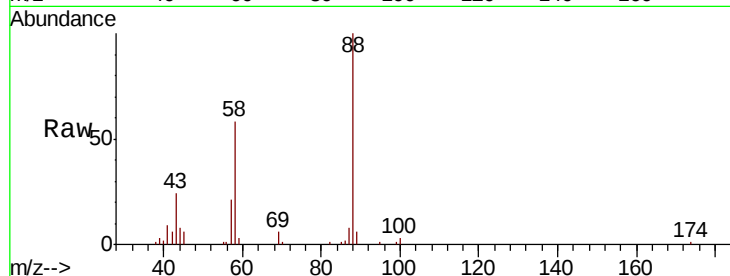




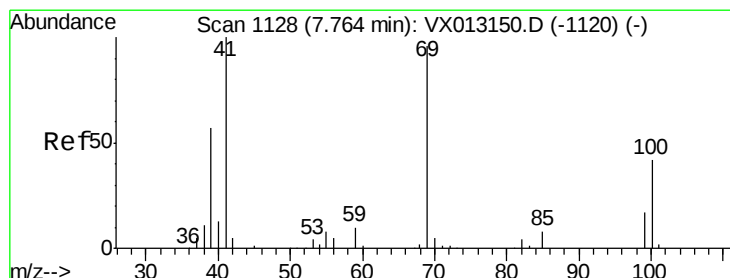
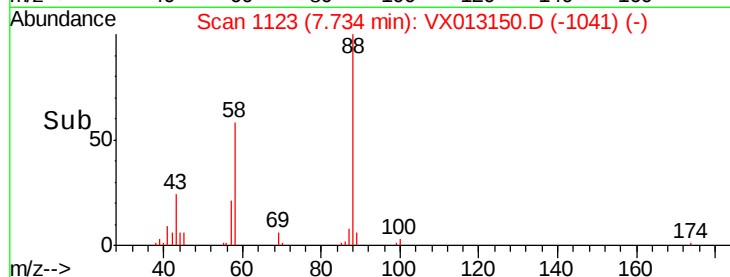
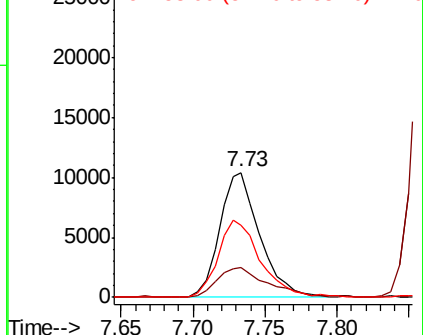
#45  
1,4-Dioxane  
Concen: 403.080 ug/l  
RT: 7.73 min Scan# 1123  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tot Ion: 88 Resp: 20114  
Ion Ratio Lower Upper  
88 100  
43 30.0 24.0 36.0  
58 66.0 52.8 79.2

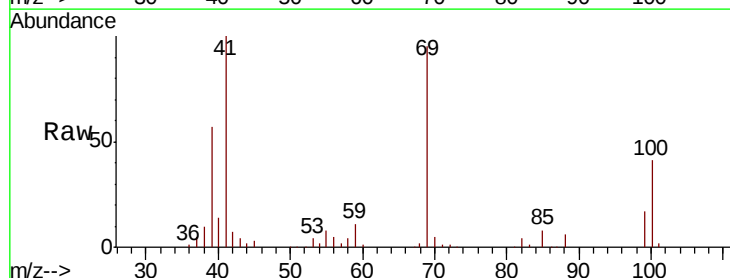


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

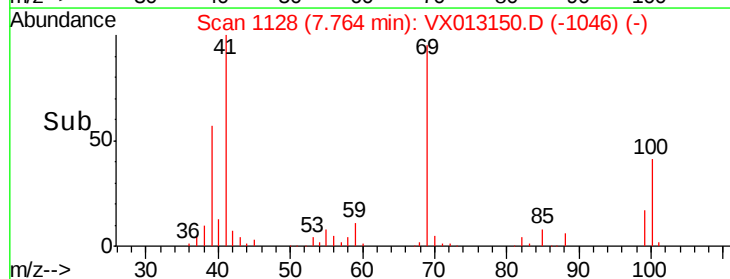
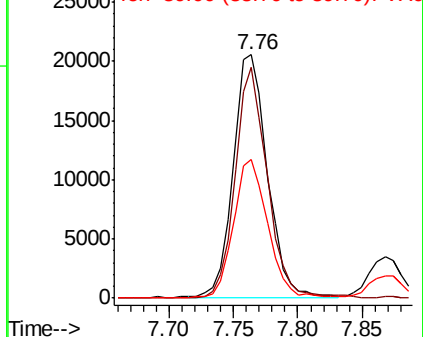


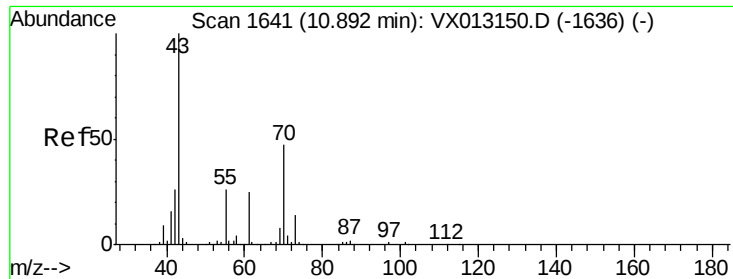
#46  
Methyl methacrylate  
Concen: 19.379 ug/l  
RT: 7.76 min Scan# 1128  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 41 Resp: 38110  
Ion Ratio Lower Upper  
41 100  
69 95.5 47.8 143.3  
39 57.0 28.5 85.5



Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0





#47

n-amvl Acetate

Concen: 18.159 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

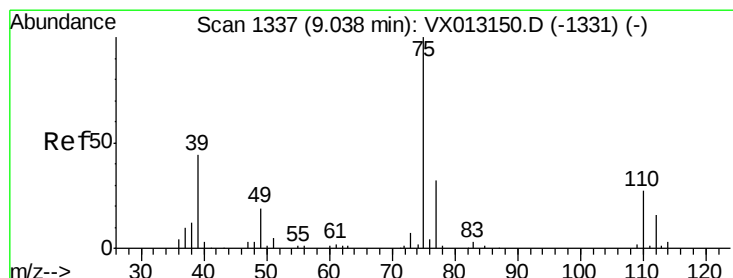
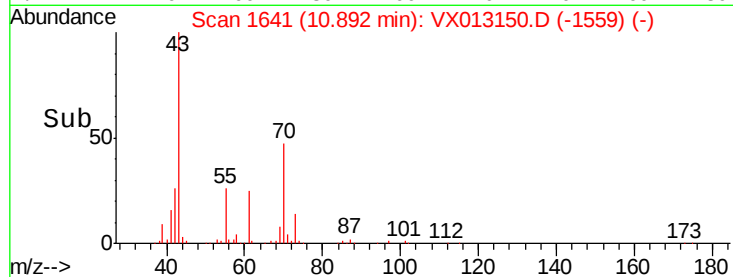
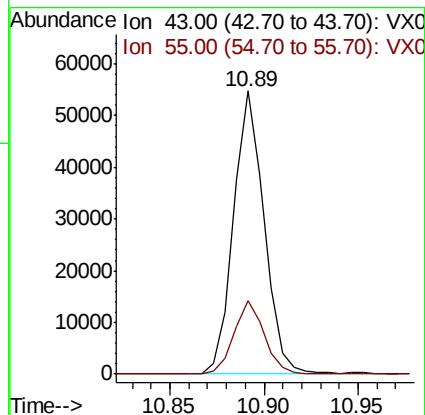
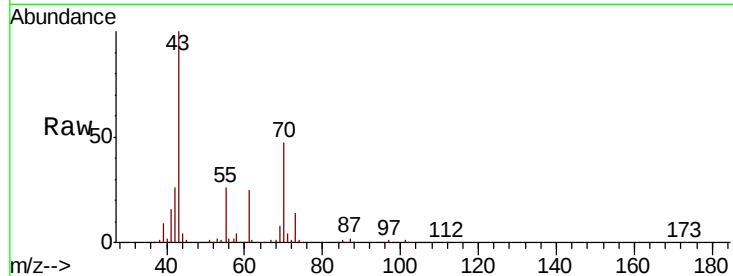
VSTDICCC020

Tot Ion: 43 Resp: 61750

Ion Ratio Lower Upper

43 100

55 26.1 20.9 31.3



#48

t-1,3-Dichloropropene

Concen: 19.454 ug/l

RT: 9.04 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VX013150.D

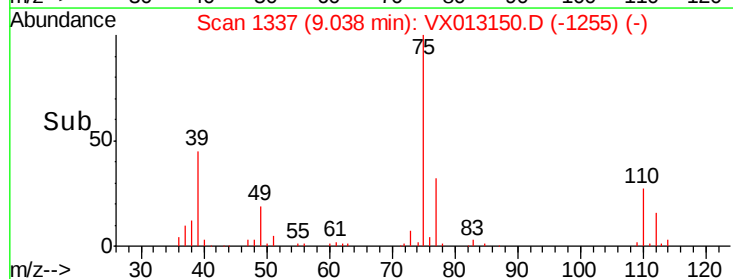
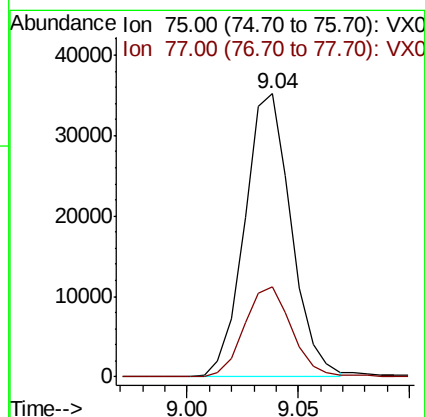
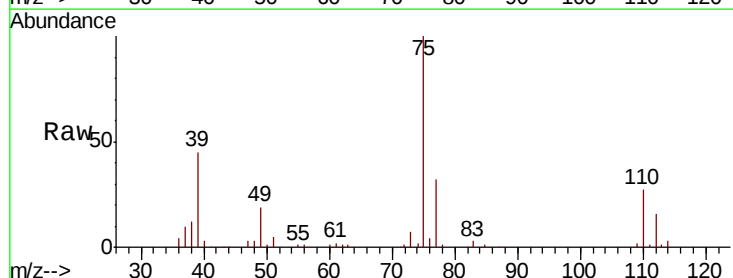
Acq: 21 Oct 2019 12:37

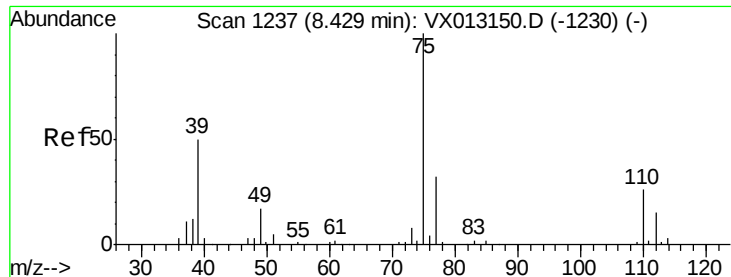
Tgt Ion: 75 Resp: 51334

Ion Ratio Lower Upper

75 100

77 32.0 25.6 38.4

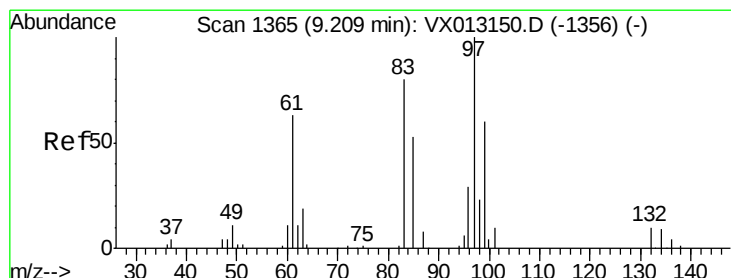
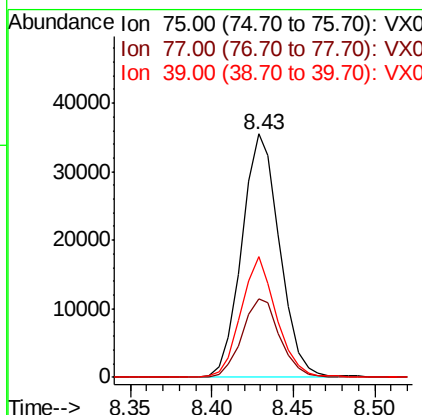
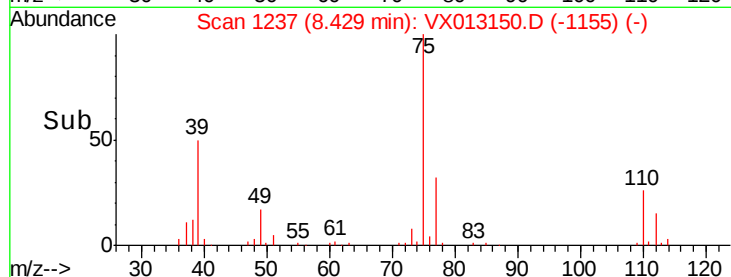
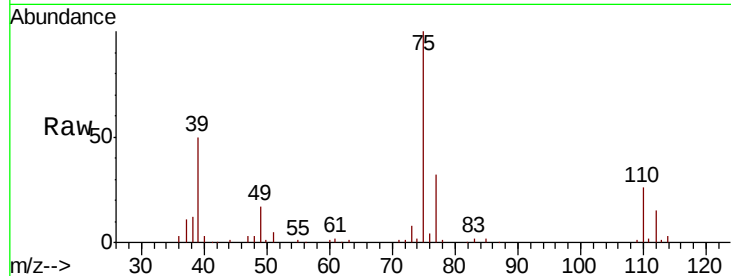




#49  
 cis-1,3-Dichloropropene  
 Concen: 19.754 ug/l  
 RT: 8.43 min Scan# 1237  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

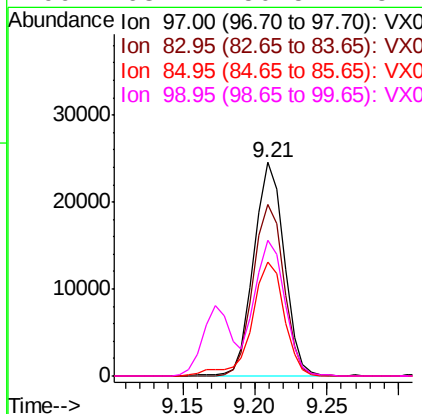
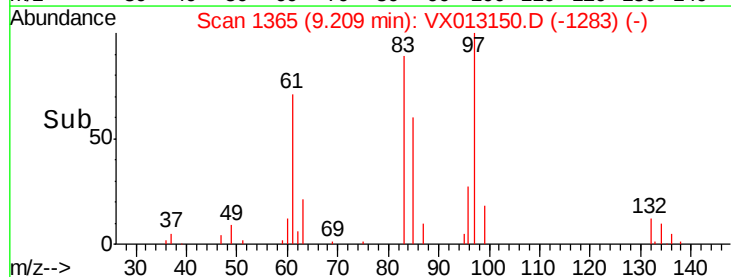
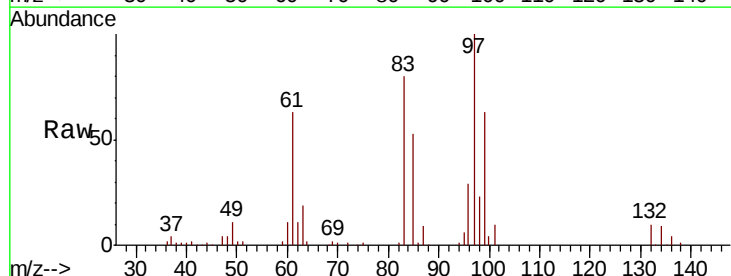
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

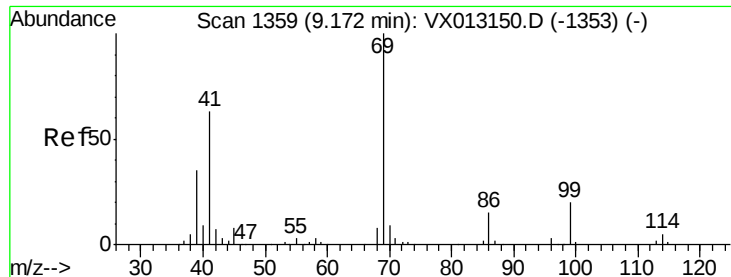
Tot Ion: 75 Resp: 57285  
 Ion Ratio Lower Upper  
 75 100  
 77 32.3 25.8 38.8  
 39 49.6 39.7 59.5



#50  
 1,1,2-Trichloroethane  
 Concen: 19.926 ug/l  
 RT: 9.21 min Scan# 1365  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Tgt Ion: 97 Resp: 35959  
 Ion Ratio Lower Upper  
 97 100  
 83 80.3 64.2 96.4  
 85 53.4 42.7 64.1  
 99 63.1 50.5 75.7





#51

Ethyl methacrylate

Concen: 19.298 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

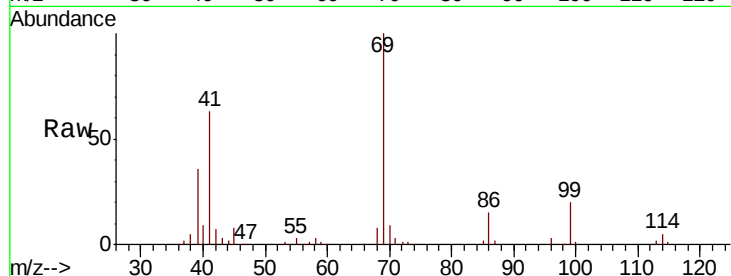
Tot Ion: 69 Resp: 54697

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 63.3  | 31.6  | 95.0  |
| 39  | 35.4  | 17.7  | 53.1  |

69 100

41 63.3 31.6 95.0

39 35.4 17.7 53.1

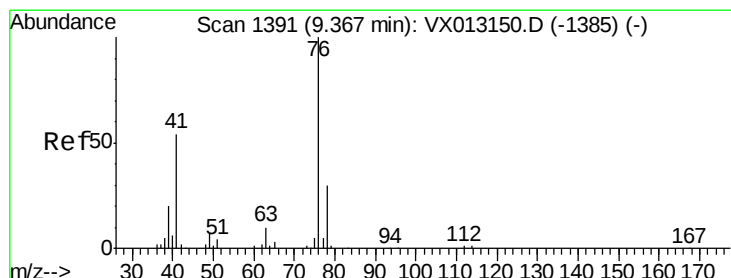
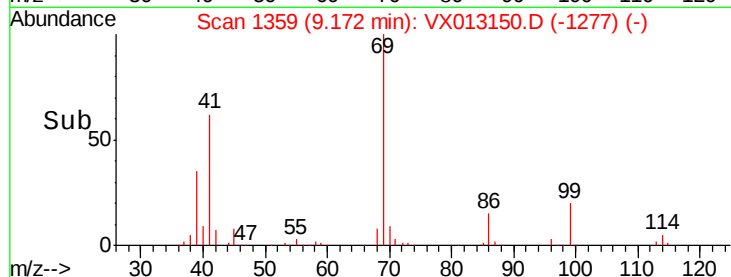
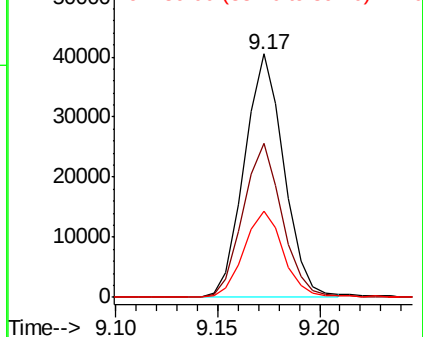


Abundance

Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#52

1,3-Dichloropropane

Concen: 20.131 ug/l

RT: 9.37 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VX013150.D

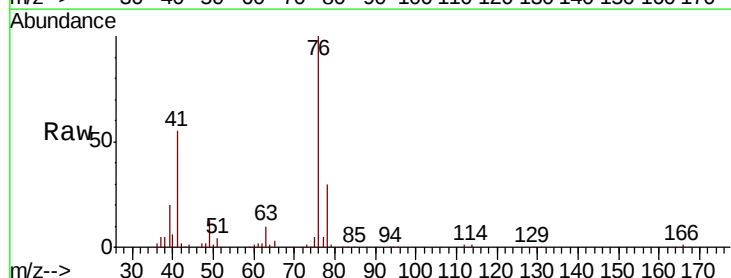
Acq: 21 Oct 2019 12:37

Tgt Ion: 76 Resp: 60803

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 32.3  | 0.0   | 64.6  |

76 100

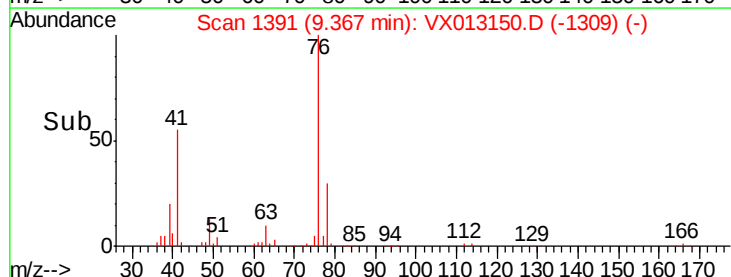
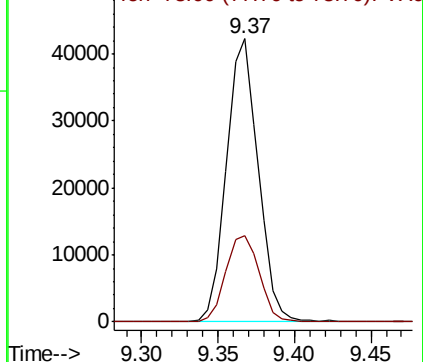
78 32.3 0.0 64.6

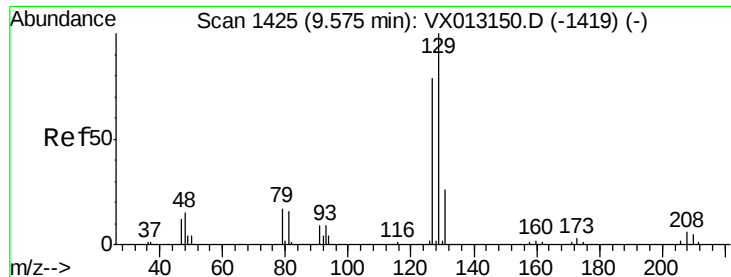


Abundance

Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 20.028 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

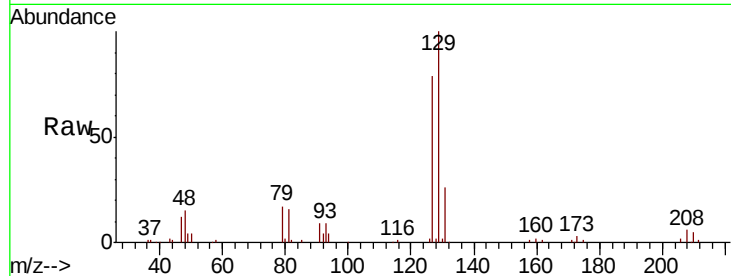
VSTDICCC020

Tot Ion:129 Resp: 37355

Ion Ratio Lower Upper

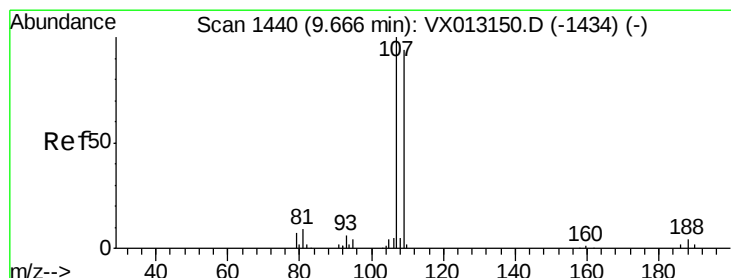
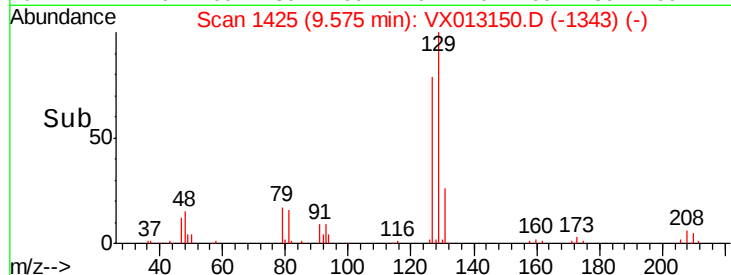
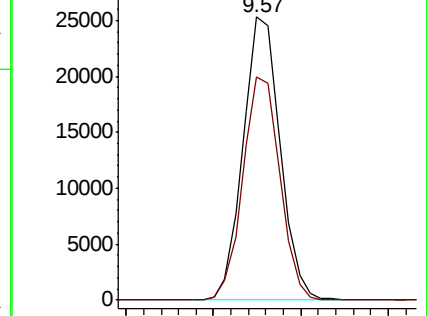
129 100

127 78.8 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 20.382 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. 0.00 min

Lab File: VX013150.D

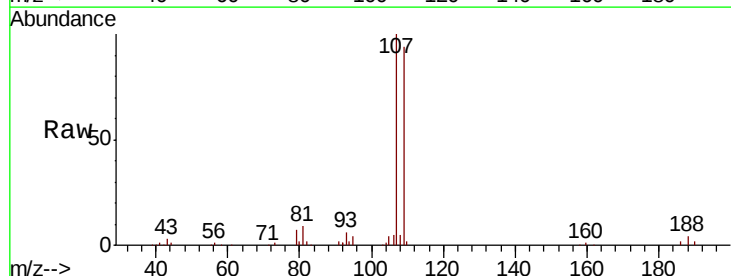
Acq: 21 Oct 2019 12:37

Tgt Ion:107 Resp: 38656

Ion Ratio Lower Upper

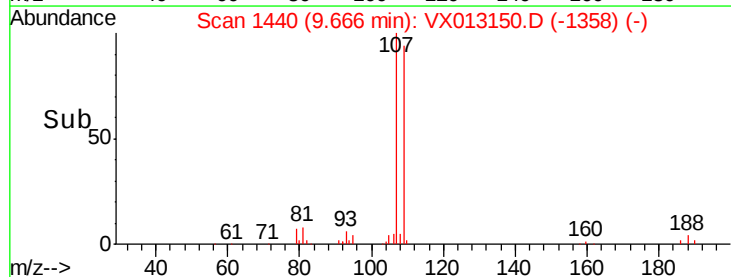
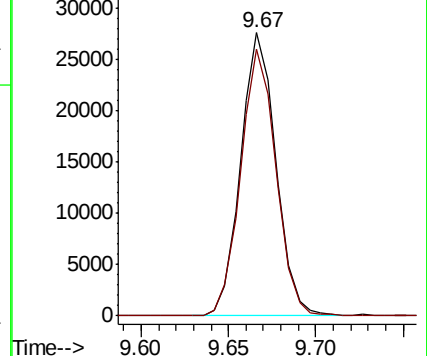
107 100

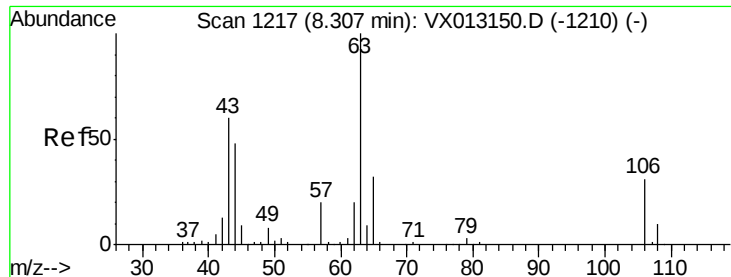
109 94.2 75.4 113.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

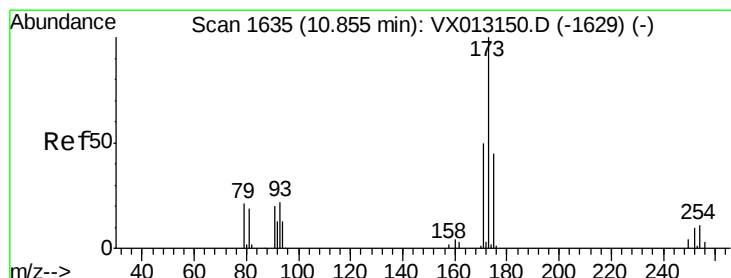
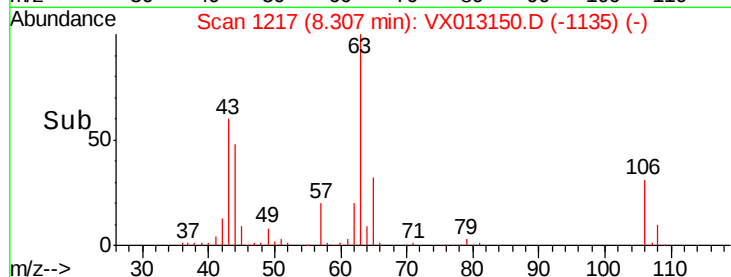
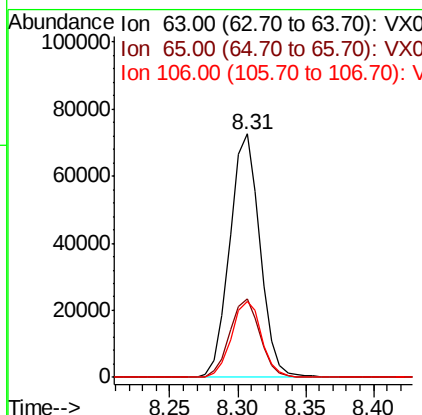
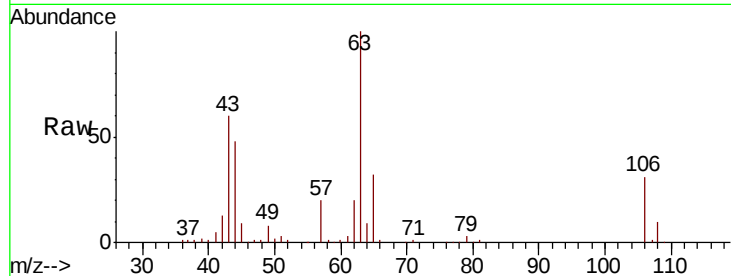




#55  
2-Chloroethyl vinyl ether  
Concen: 92.111 ug/l  
RT: 8.31 min Scan# 1217  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

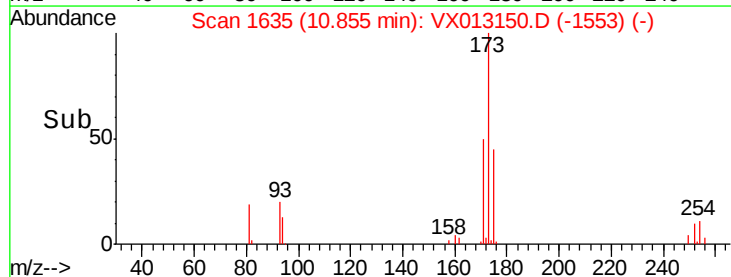
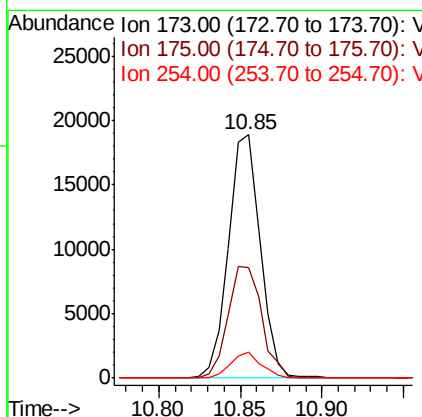
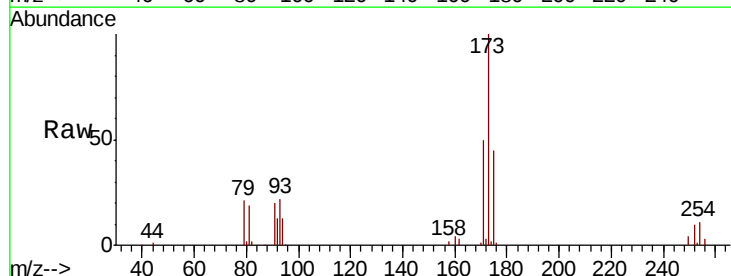
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

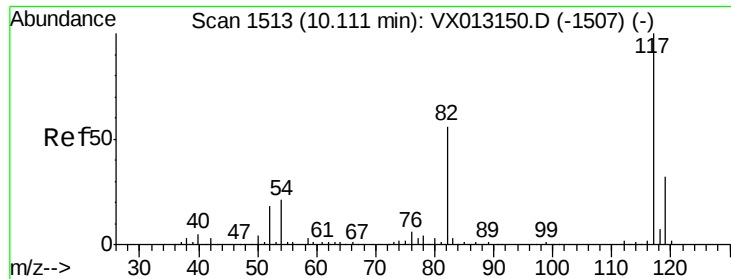
Tot Ion: 63 Resp: 112320  
Ion Ratio Lower Upper  
63 100  
65 31.9 25.5 38.3  
106 31.0 24.8 37.2



#56  
Bromoform  
Concen: 19.711 ug/l  
RT: 10.85 min Scan# 1635  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 173 Resp: 25649  
Ion Ratio Lower Upper  
173 100  
175 48.7 39.0 58.4  
254 10.1 8.1 12.1

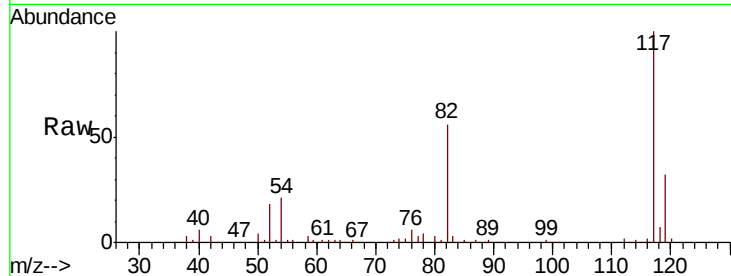




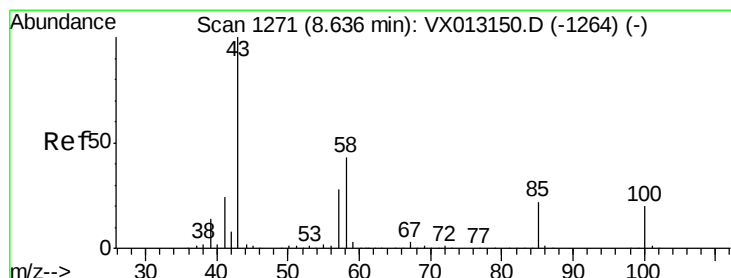
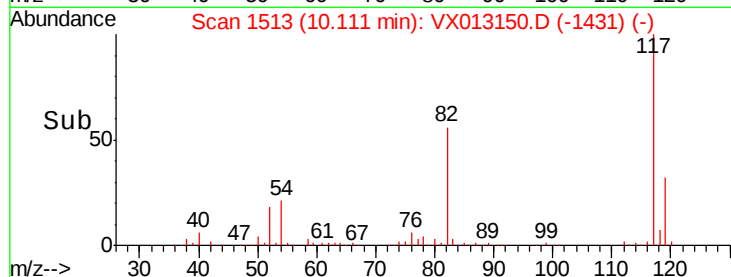
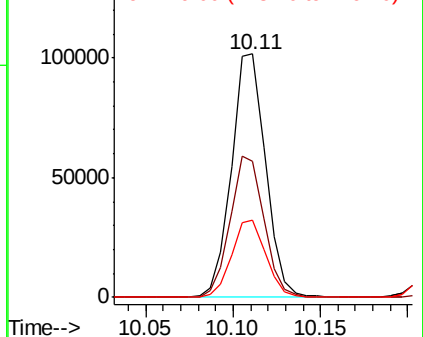
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Instrument :  
MSVOA\_X  
ClientSampled :  
VSTDICCC020

Tot Ion:117 Resp: 138338  
Ion Ratio Lower Upper  
117 100  
82 57.5 46.0 69.0  
119 31.7 25.4 38.0

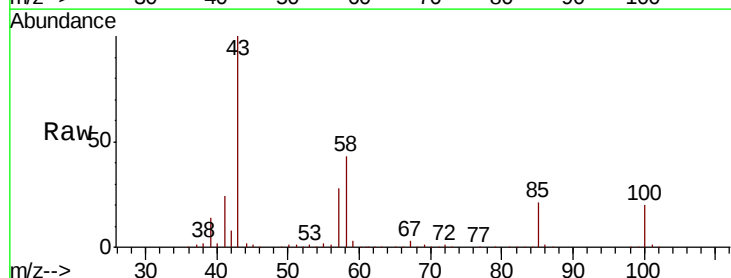


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 119.00 (118.70 to 119.70): V

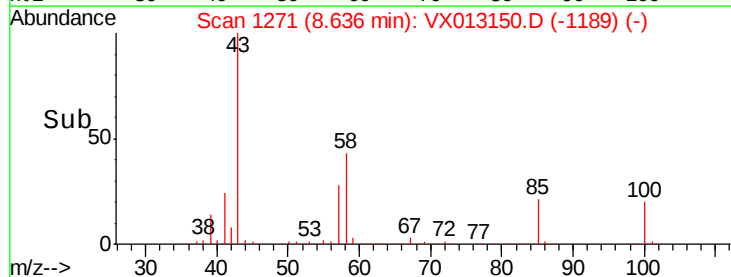
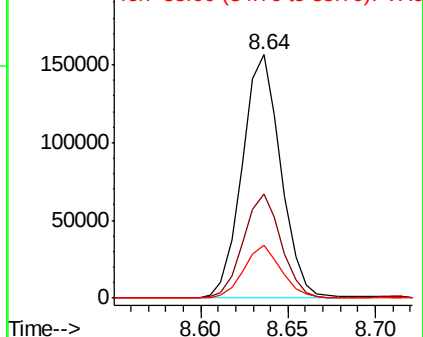


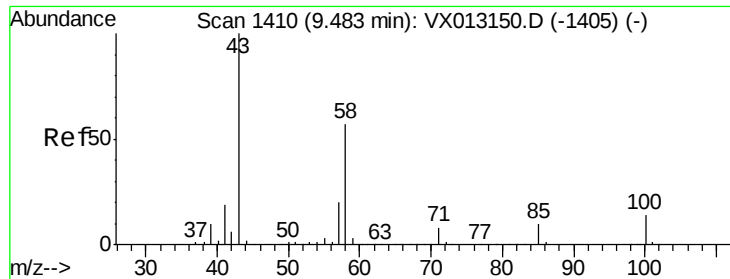
#58  
4-Methyl-2-Pentanone  
Concen: 96.177 ug/l  
RT: 8.64 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 43 Resp: 239775  
Ion Ratio Lower Upper  
43 100  
58 42.3 33.8 50.8  
85 21.0 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0  
Ion 85.00 (84.70 to 85.70): VX0

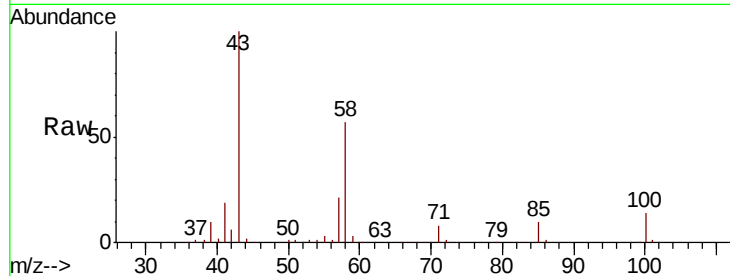




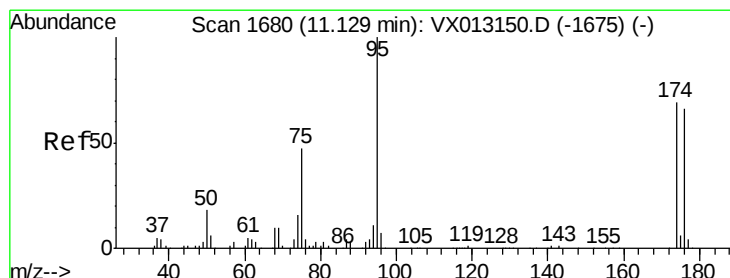
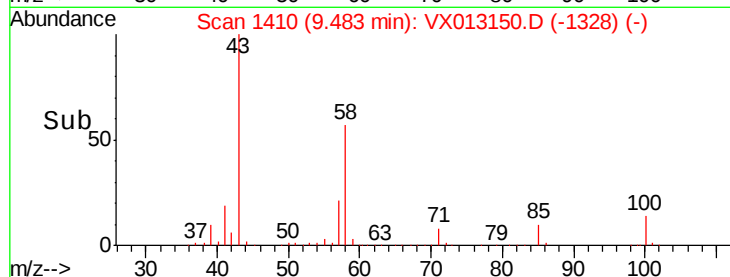
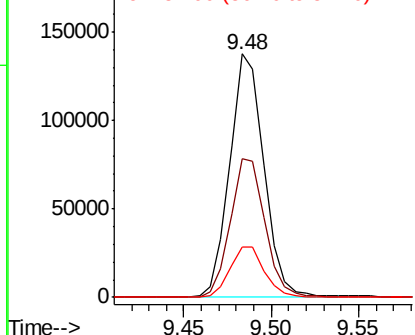
#59  
2-Hexanone  
Concen: 96.509 ug/l  
RT: 9.48 min Scan# 1410  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tot Ion: 43 Resp: 187392  
Ion Ratio Lower Upper  
43 100  
58 58.2 46.6 69.8  
57 21.1 16.9 25.3

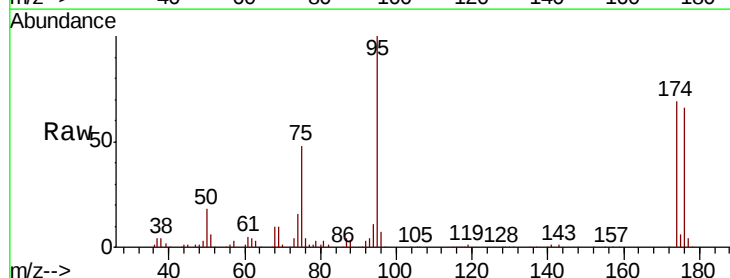


Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0

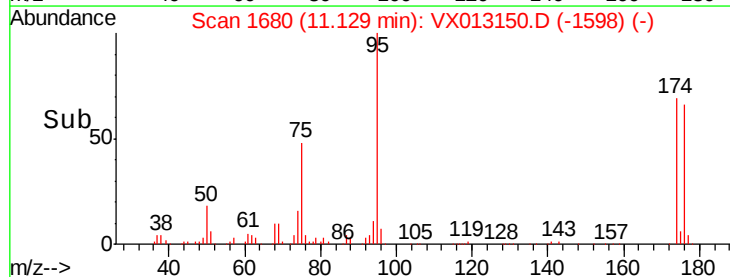
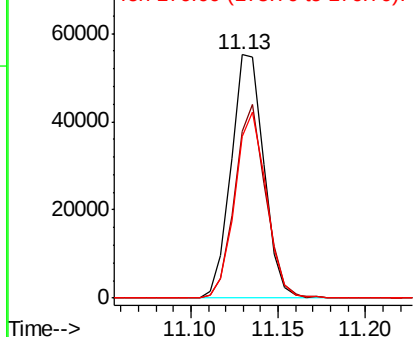


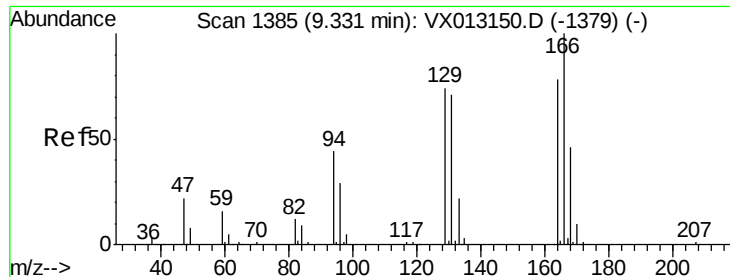
#60  
4-Bromofluorobenzene  
Concen: 29.781 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 95 Resp: 72090  
Ion Ratio Lower Upper  
95 100  
174 75.0 60.0 90.0  
176 73.1 58.5 87.7



Abundance Ion 95.00 (94.70 to 95.70): VX0  
Ion 174.00 (173.70 to 174.70): V  
Ion 176.00 (175.70 to 176.70): V

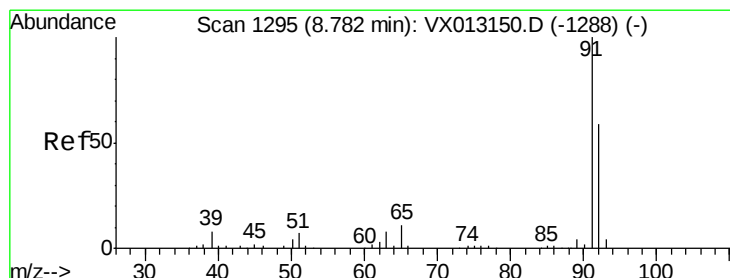
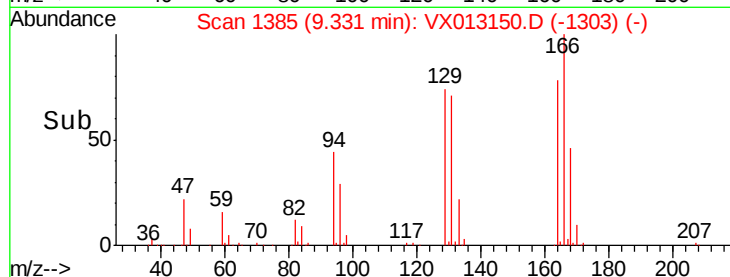
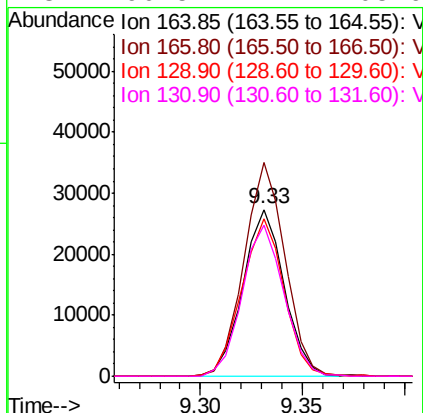
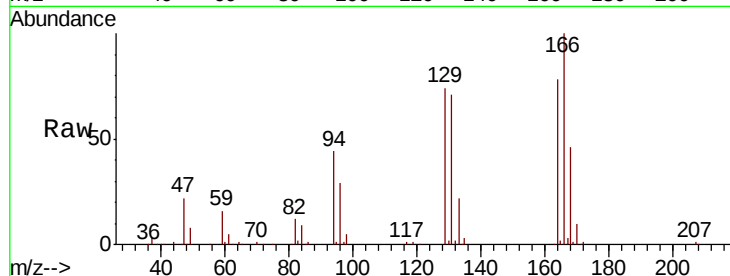




#61  
Tetrachloroethene  
Concen: 21.708 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

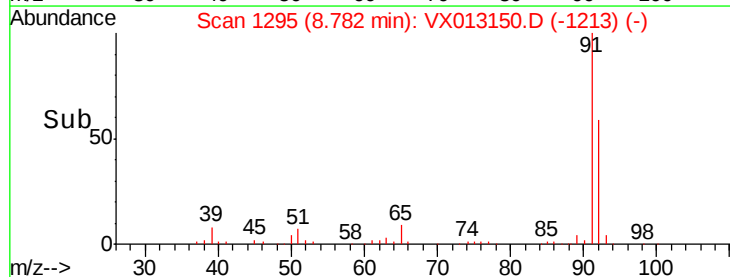
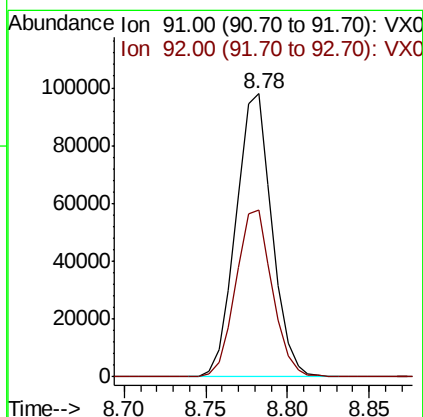
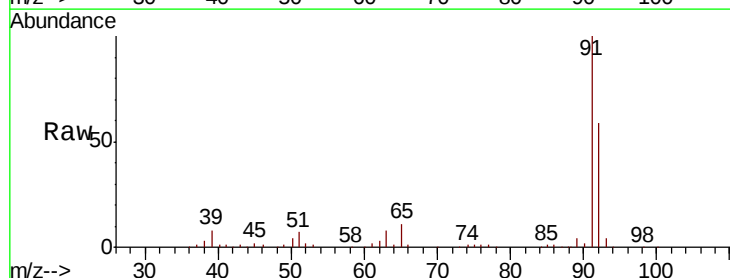
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

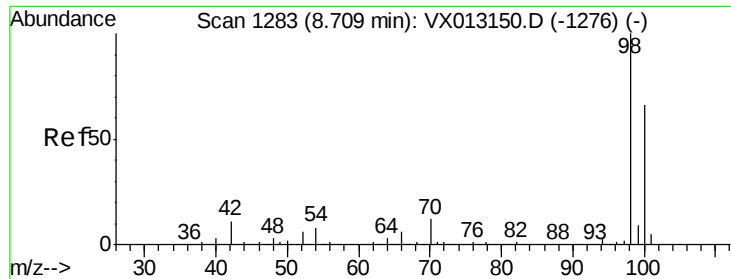
Tot Ion:164 Resp: 38551  
Ion Ratio Lower Upper  
164 100  
166 128.2 102.6 153.8  
129 94.6 75.7 113.5  
131 90.5 72.4 108.6



#62  
Toluene  
Concen: 20.017 ug/l  
RT: 8.78 min Scan# 1295  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 91 Resp: 150548  
Ion Ratio Lower Upper  
91 100  
92 59.6 47.7 71.5

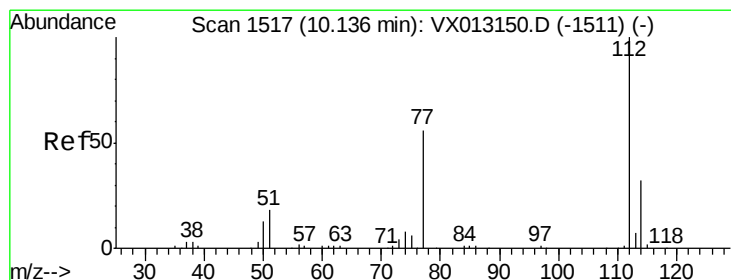
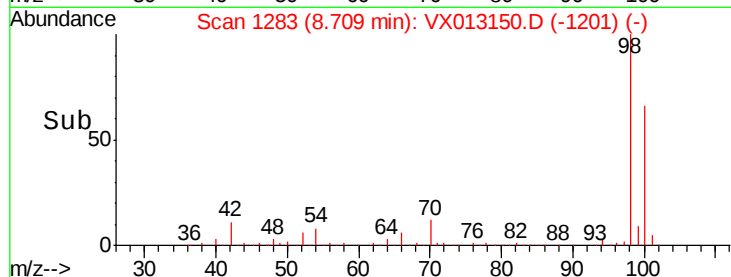
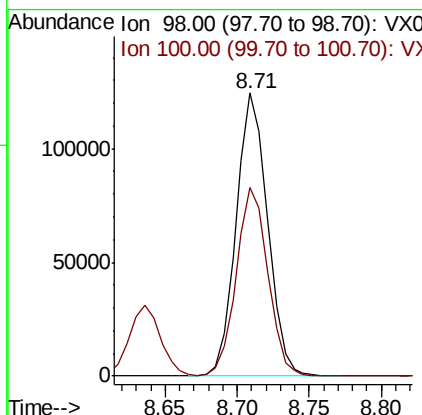
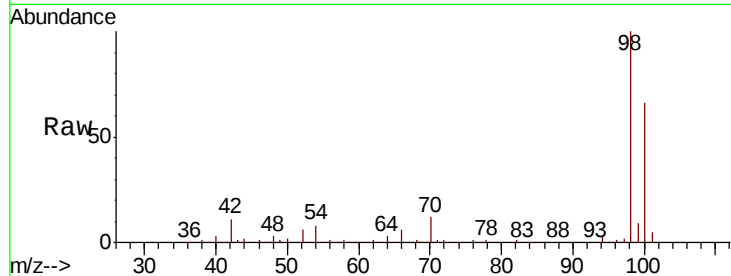




#63  
Toluene-d8  
Concen: 30.148 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

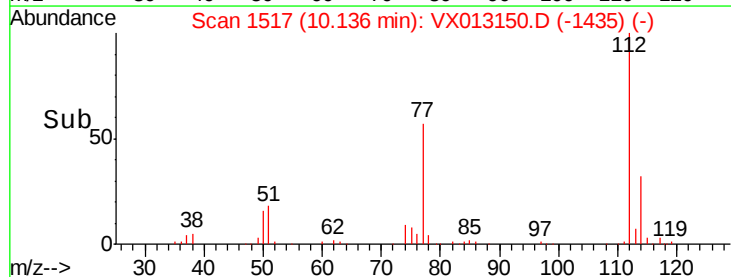
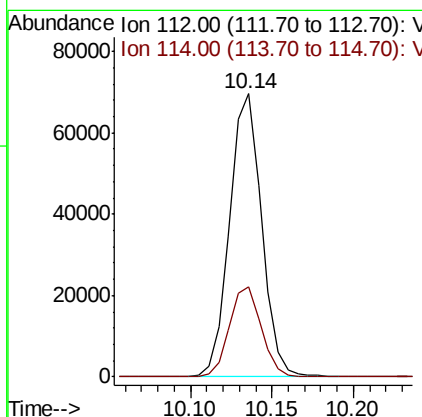
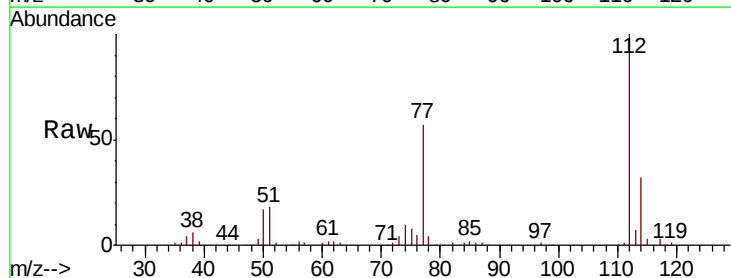
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

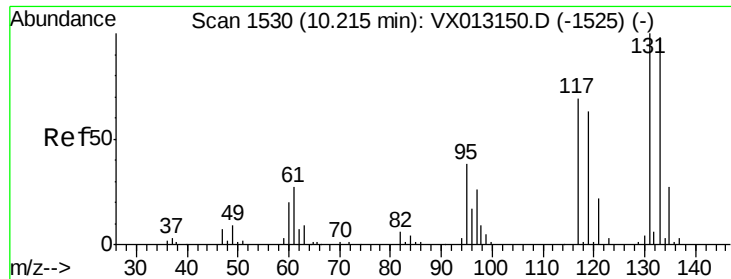
Tot Ion: 98 Resp: 189510  
Ion Ratio Lower Upper  
98 100  
100 66.4 53.1 79.7



#64  
Chlorobenzene  
Concen: 19.885 ug/l  
RT: 10.14 min Scan# 1517  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 112 Resp: 95113  
Ion Ratio Lower Upper  
112 100  
114 31.9 25.5 38.3





#65

1,1,1,2-Tetrachloroethane

Concen: 20.389 ug/l

RT: 10.21 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

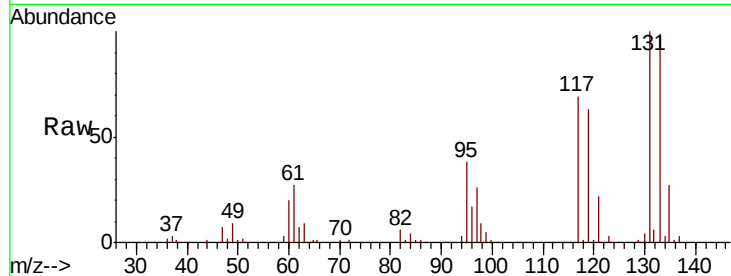
Tot Ion:131 Resp: 36035

Ion Ratio Lower Upper

131 100

133 95.5 0.0 191.0

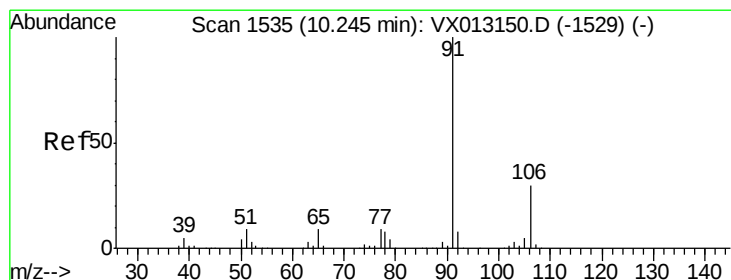
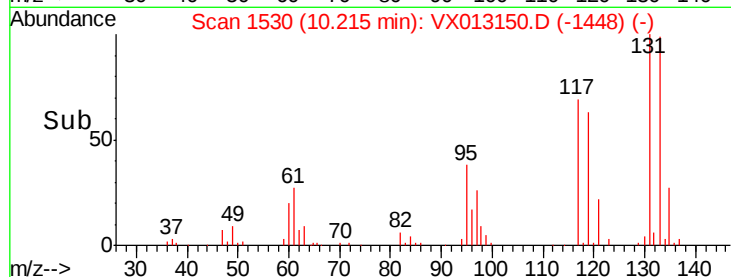
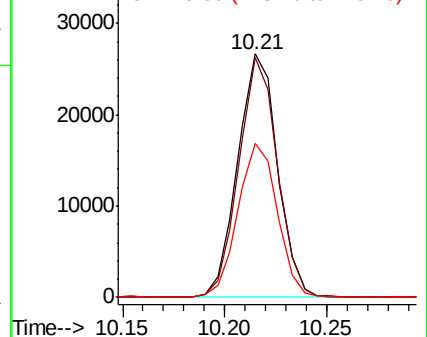
119 62.8 0.0 125.6



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 19.747 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX013150.D

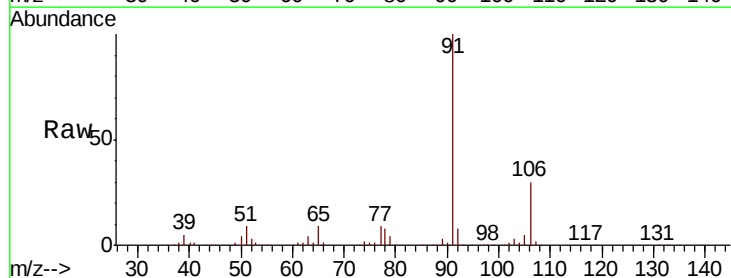
Acq: 21 Oct 2019 12:37

Tgt Ion: 91 Resp: 170025

Ion Ratio Lower Upper

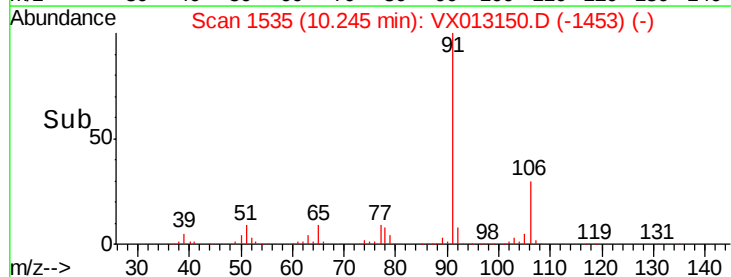
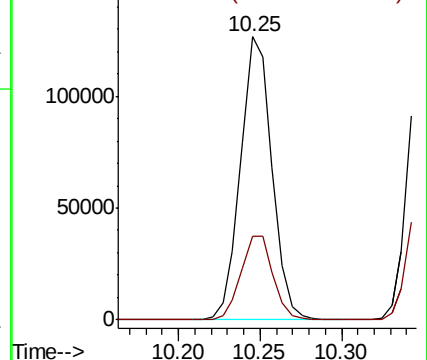
91 100

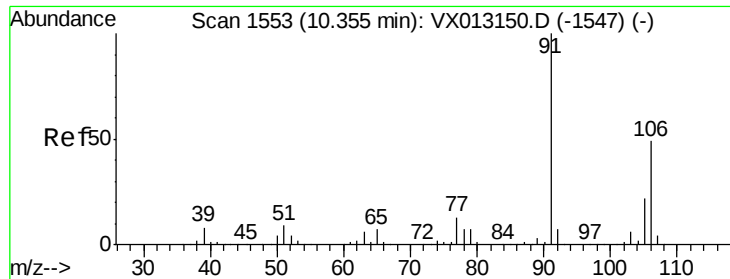
106 29.7 23.8 35.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

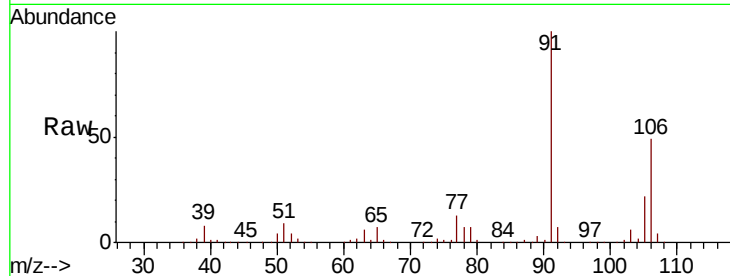




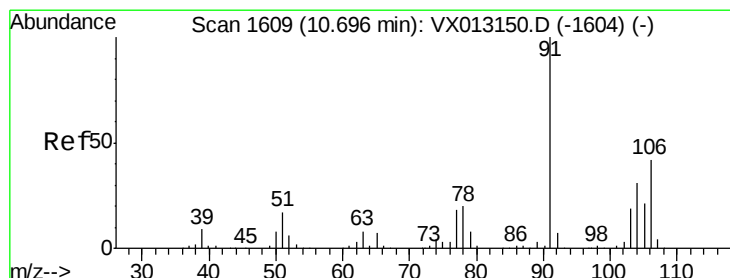
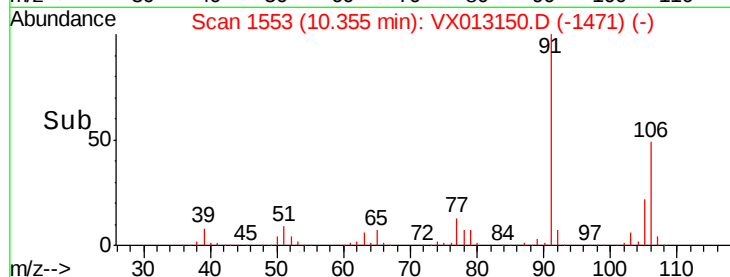
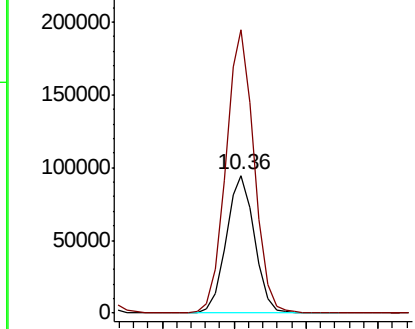
#67  
m/p-Xylenes  
Concen: 40.281 ug/l  
RT: 10.36 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tot Ion:106 Resp: 130738  
Ion Ratio Lower Upper  
106 100  
91 204.6 163.7 245.5

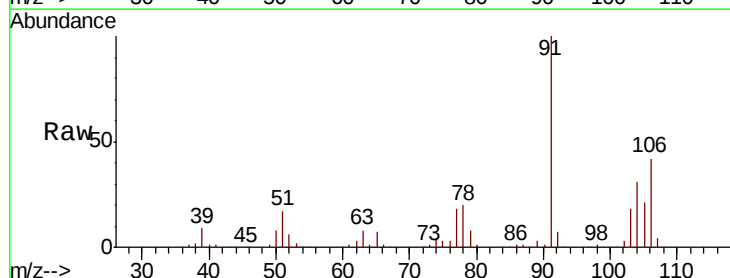


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

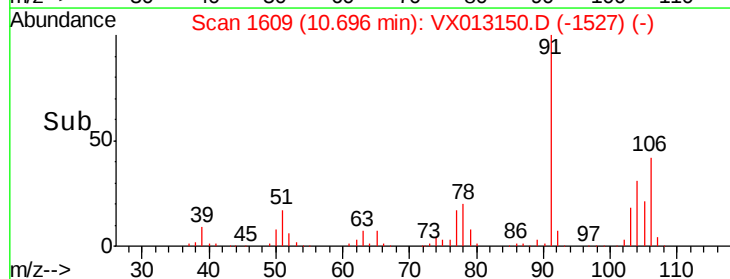
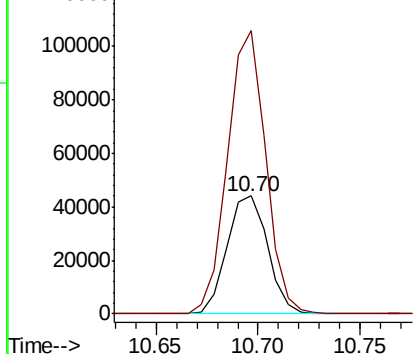


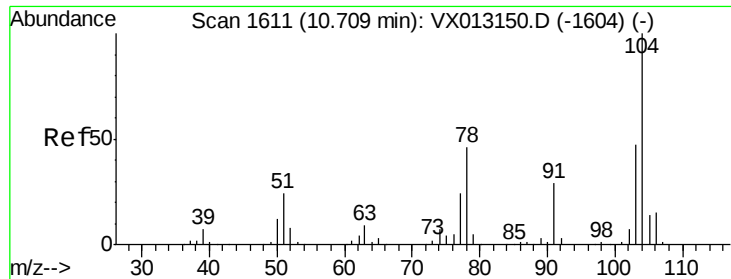
#68  
o-Xylene  
Concen: 19.285 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion:106 Resp: 60338  
Ion Ratio Lower Upper  
106 100  
91 227.2 113.6 340.8



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

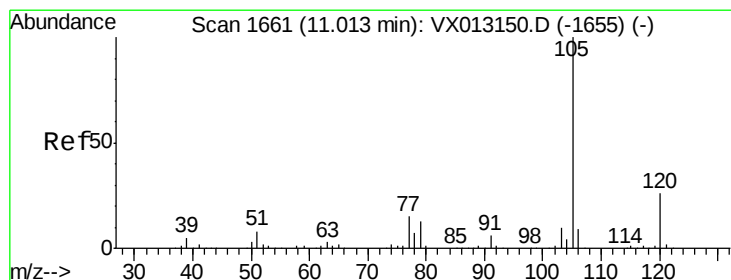
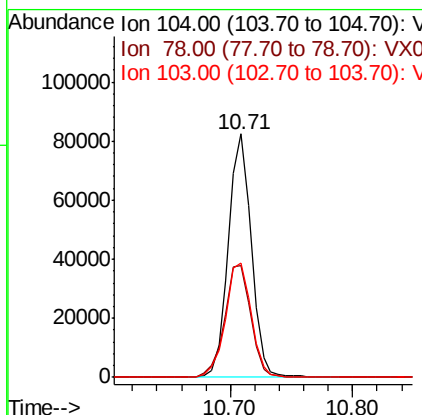
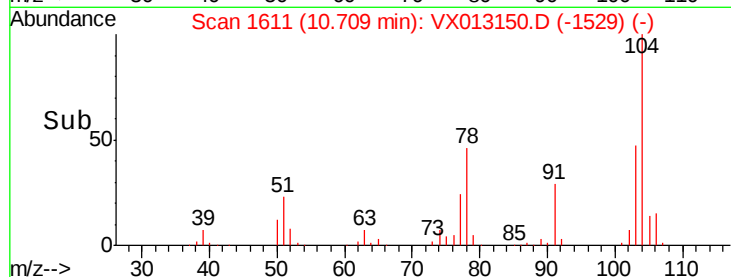
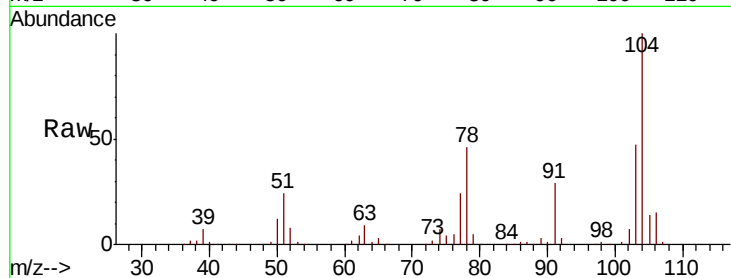




#69  
Stvrene  
Concen: 19.626 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

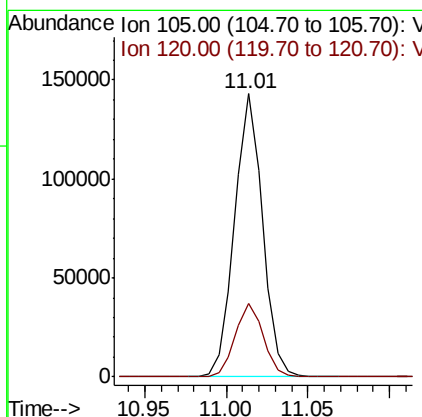
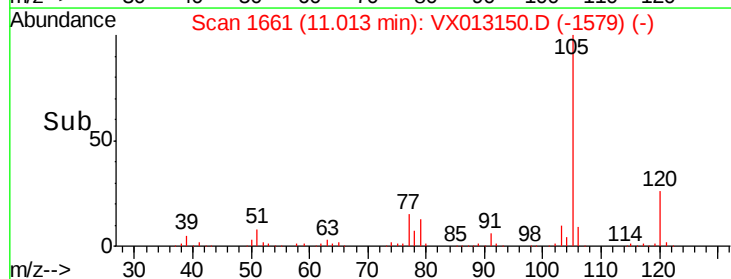
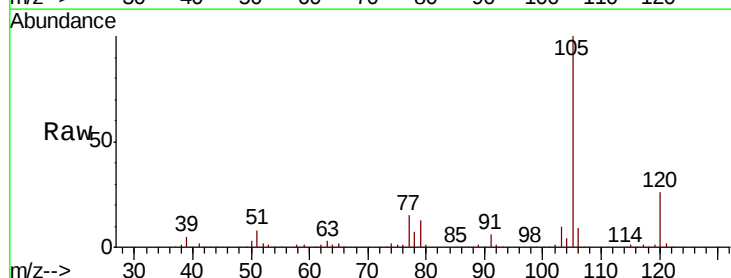
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

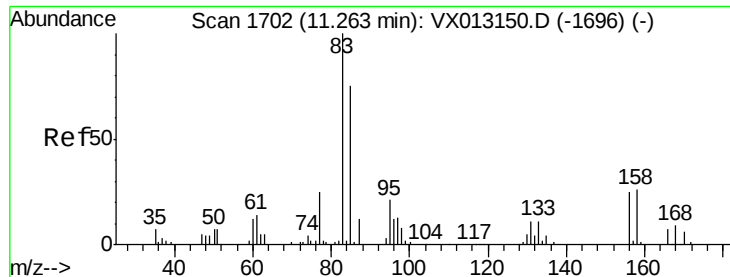
Tot Ion:104 Resp: 106633  
Ion Ratio Lower Upper  
104 100  
78 52.9 42.3 63.5  
103 52.7 42.2 63.2



#70  
Isopropylbenzene  
Concen: 20.148 ug/l  
RT: 11.01 min Scan# 1661  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion:105 Resp: 170701  
Ion Ratio Lower Upper  
105 100  
120 25.9 18.1 33.7

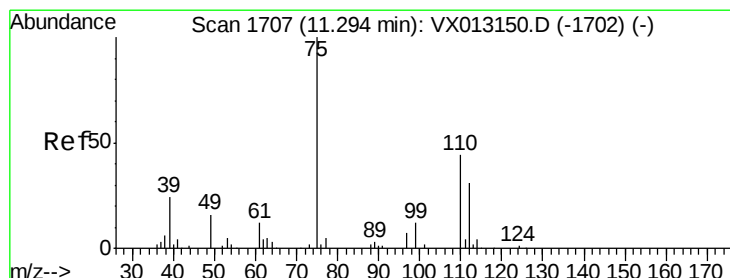
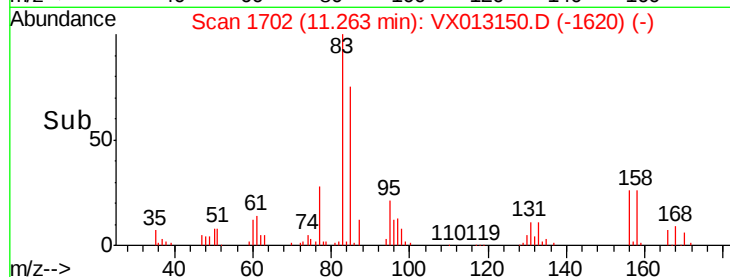
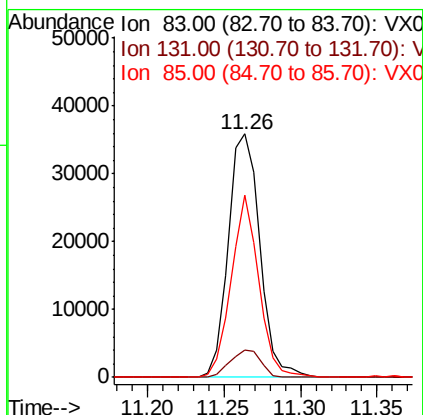
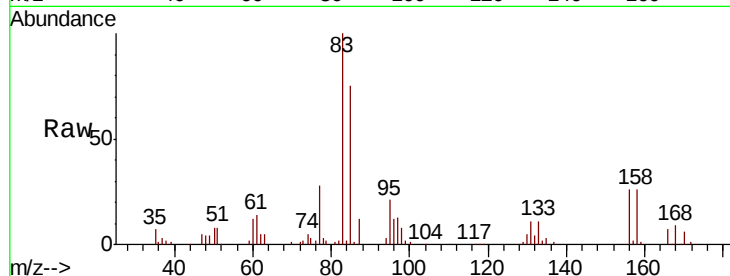




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 18.949 ug/l  
 RT: 11.26 min Scan# 1702  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

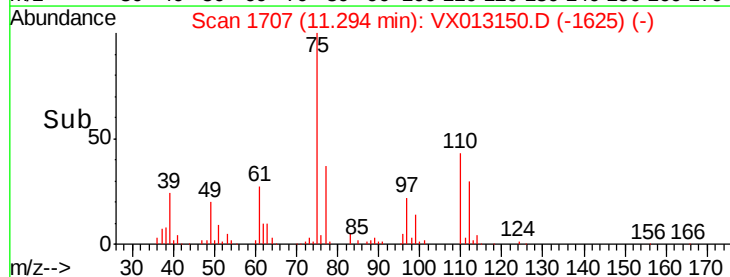
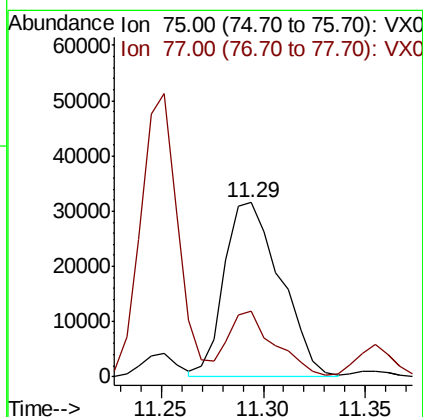
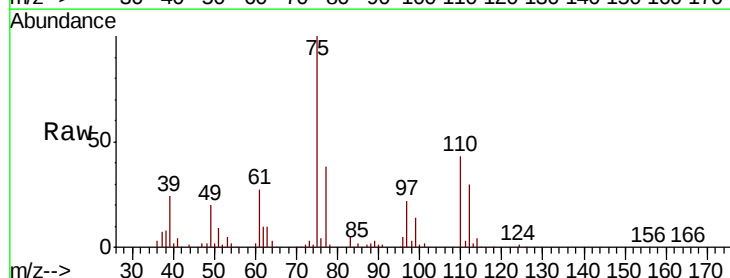
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

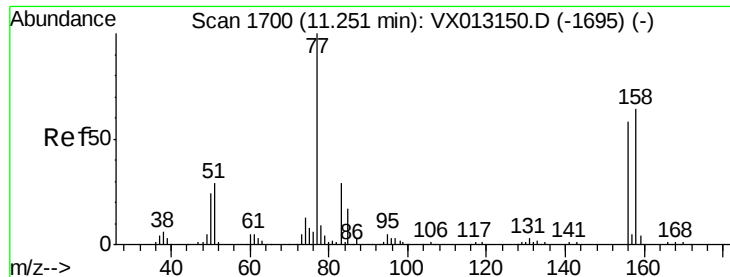
Tot Ion: 83 Resp: 51307  
 Ion Ratio Lower Upper  
 83 100  
 131 10.9 5.5 16.4  
 85 65.7 32.9 98.6



#72  
 1,2,3-Trichloropropane  
 Concen: 25.863 ug/l  
 RT: 11.29 min Scan# 1707  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Tgt Ion: 75 Resp: 60645  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 0.0 74.0

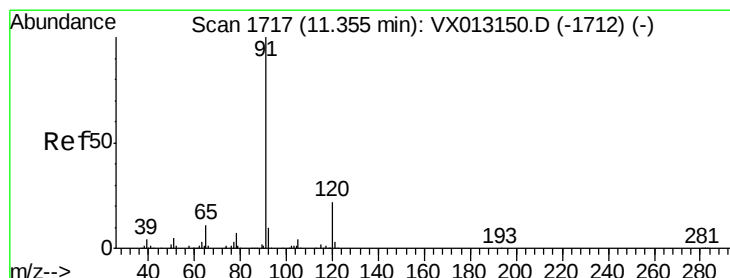
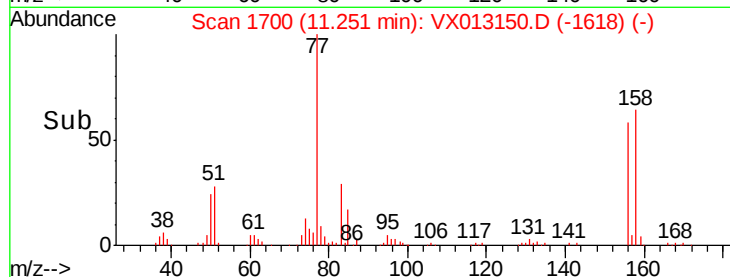
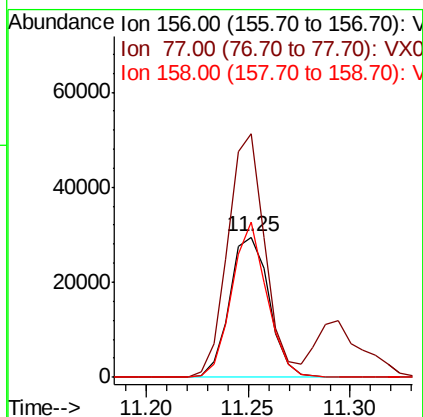
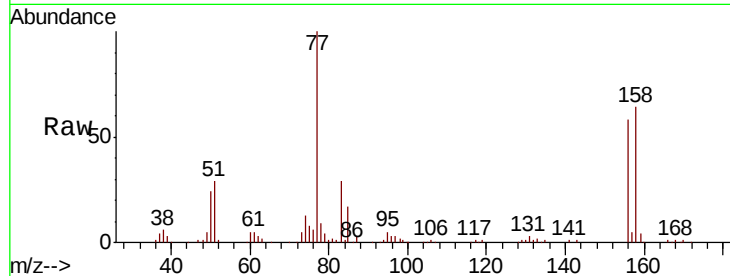




#73  
Bromobenzene  
Concen: 19.653 ug/l  
RT: 11.25 min Scan# 1700  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

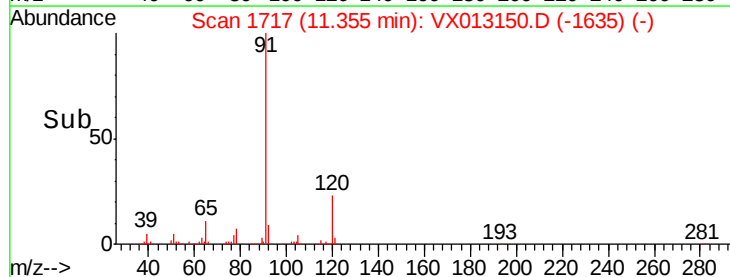
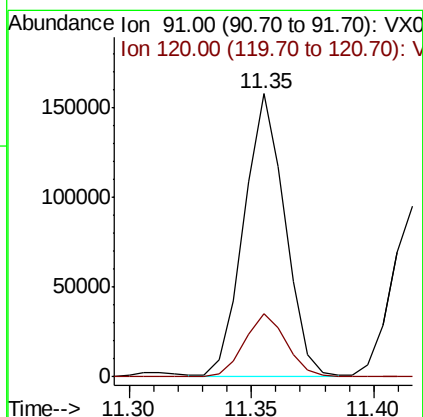
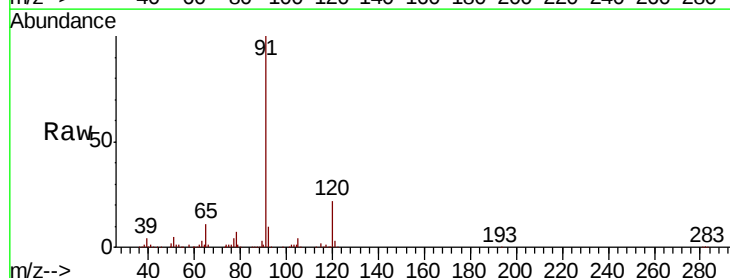
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

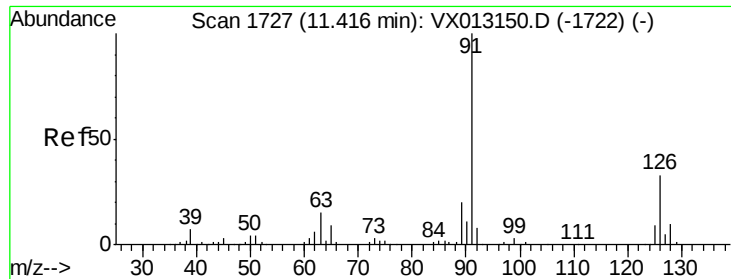
Tot Ion:156 Resp: 39621  
Ion Ratio Lower Upper  
156 100  
77 164.0 0.0 328.0  
158 98.1 0.0 196.2



#74  
n-propylbenzene  
Concen: 19.679 ug/l  
RT: 11.35 min Scan# 1717  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 91 Resp: 184857  
Ion Ratio Lower Upper  
91 100  
120 22.6 0.0 45.2





#75

2-Chlorotoluene

Concen: 20.045 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

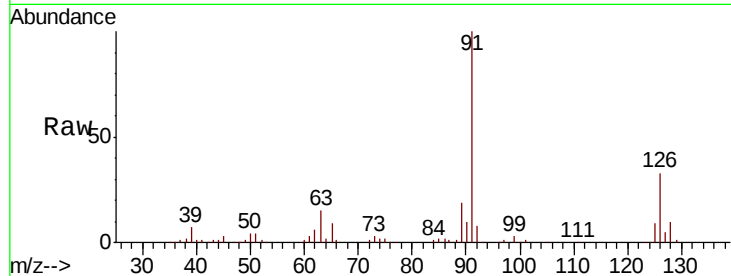
VSTDICCC020

Tot Ion: 91 Resp: 116610

Ion Ratio Lower Upper

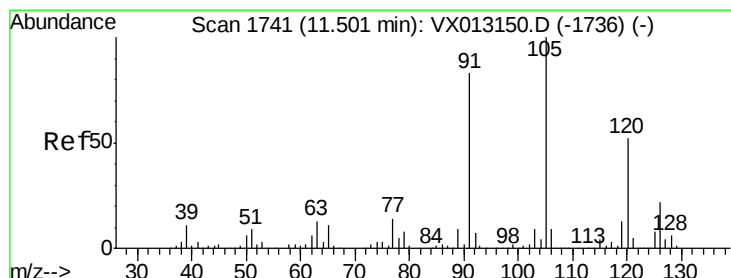
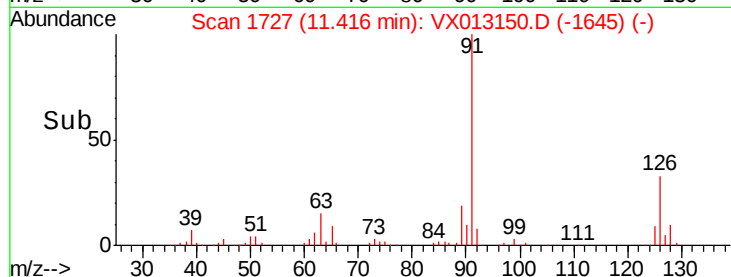
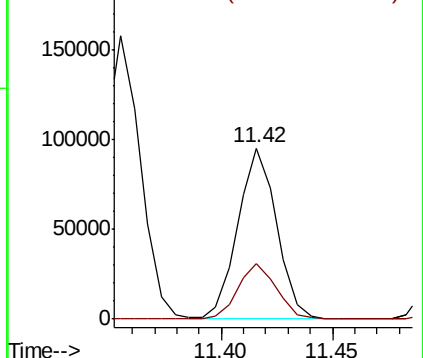
91 100

126 31.9 0.0 63.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V



#76

1,3,5-Trimethylbenzene

Concen: 19.408 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX013150.D

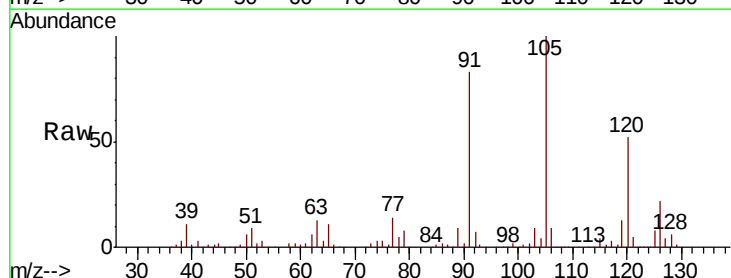
Acq: 21 Oct 2019 12:37

Tgt Ion:105 Resp: 138978

Ion Ratio Lower Upper

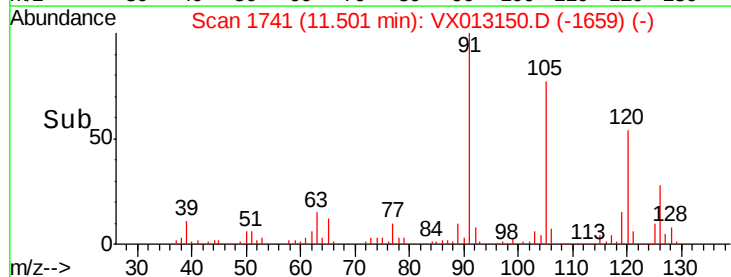
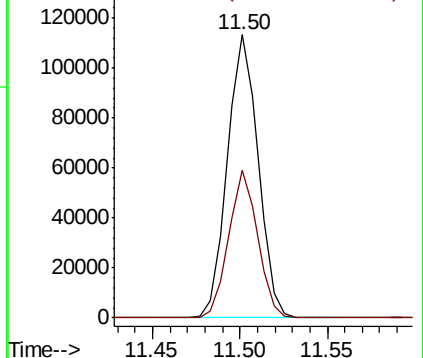
105 100

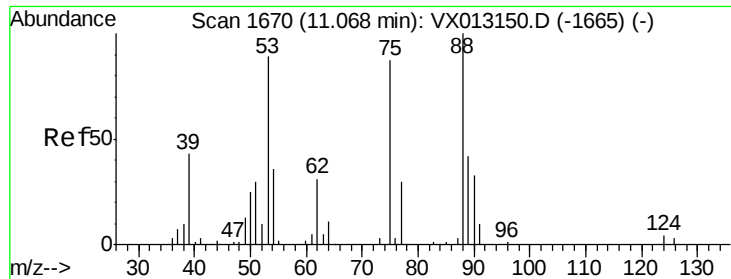
120 49.0 0.0 98.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#77

t-1,4-Dichloro-2-butene

Concen: 18.522 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

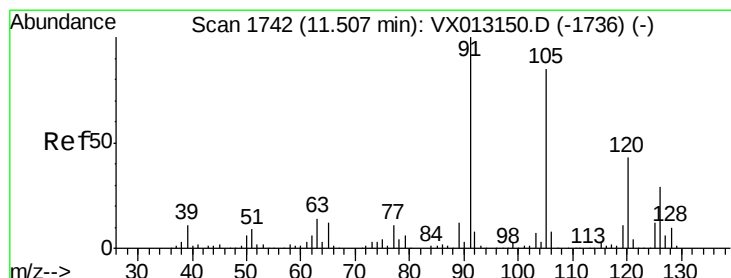
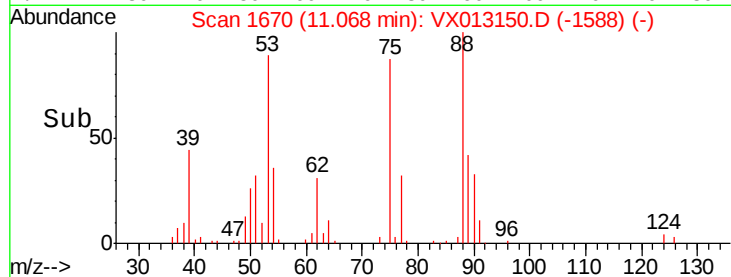
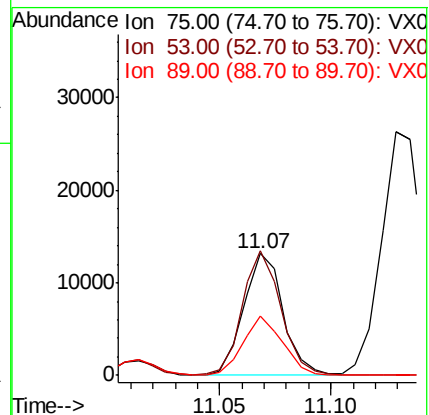
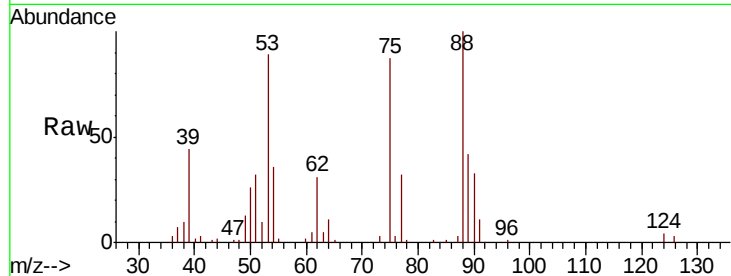
Tot Ion: 75 Resp: 16459

Ion Ratio Lower Upper

75 100

53 102.3 51.1 153.4

89 48.3 24.1 72.4



#78

4-Chlorotoluene

Concen: 19.459 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX013150.D

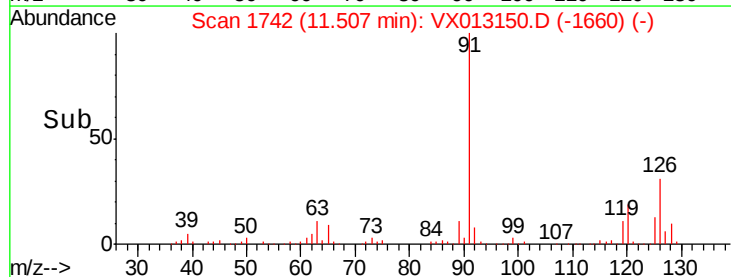
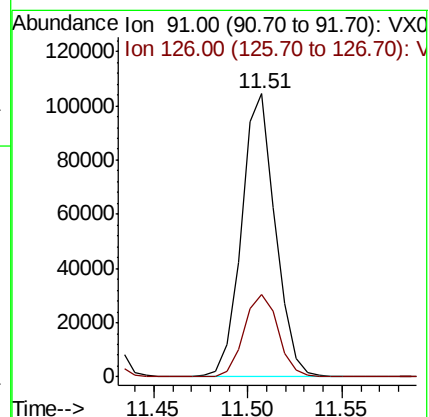
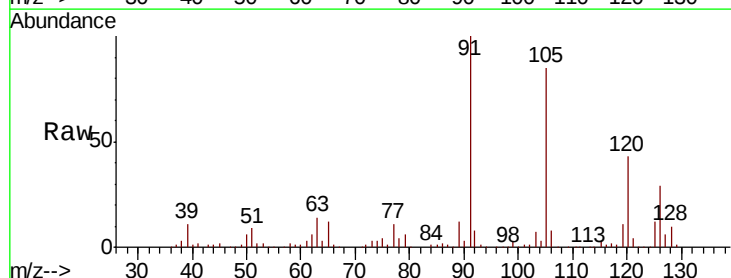
Acq: 21 Oct 2019 12:37

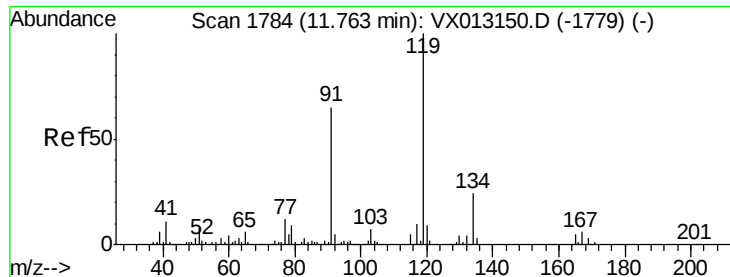
Tgt Ion: 91 Resp: 129937

Ion Ratio Lower Upper

91 100

126 29.2 0.0 58.4





#79

tert-butylbenzene

Concen: 19.373 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampled :

VSTDICCC020

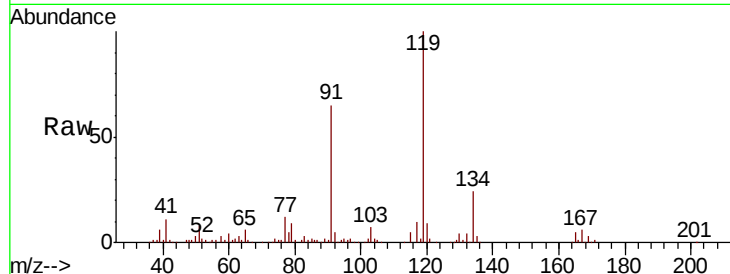
Tot Ion:119 Resp: 130402

Ion Ratio Lower Upper

119 100

91 64.2 0.0 128.4

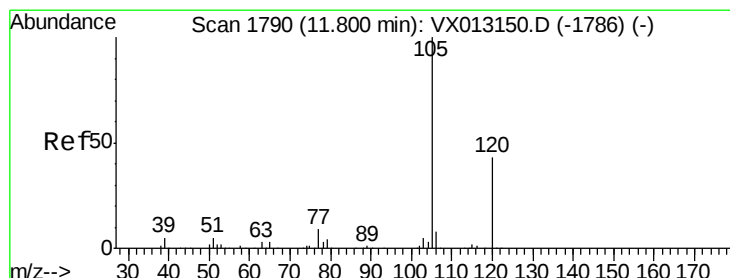
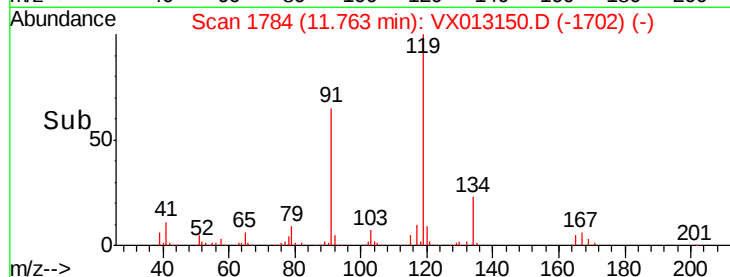
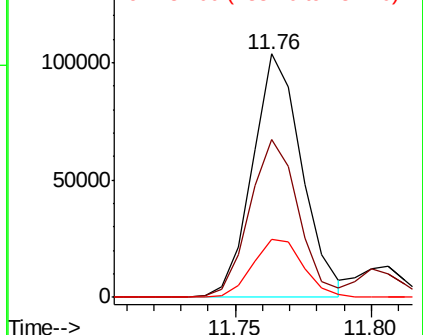
134 24.5 0.0 49.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 19.439 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. 0.00 min

Lab File: VX013150.D

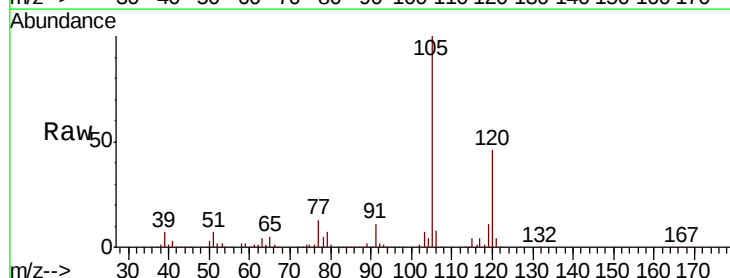
Acq: 21 Oct 2019 12:37

Tgt Ion:105 Resp: 138436

Ion Ratio Lower Upper

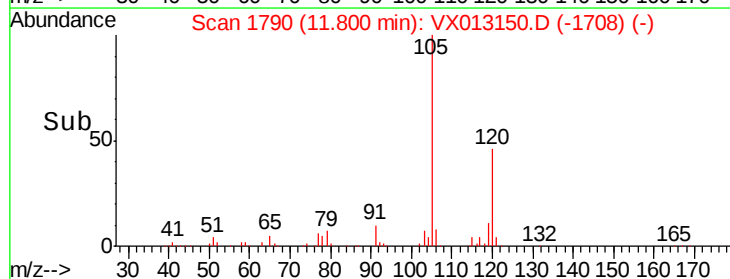
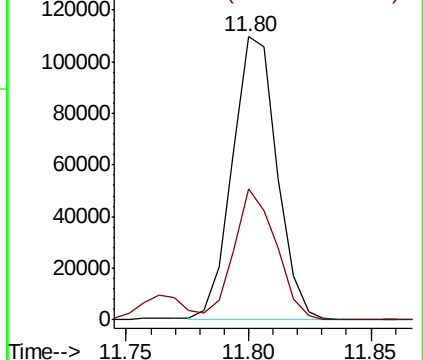
105 100

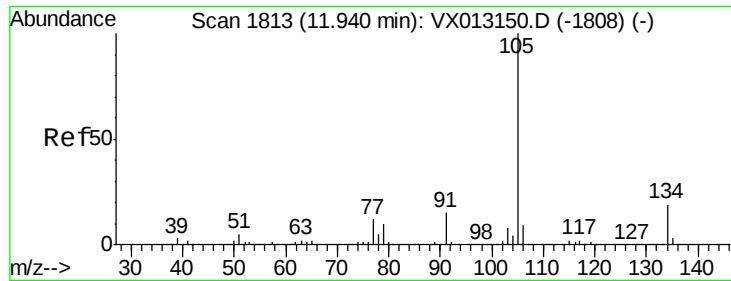
120 43.7 0.0 87.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

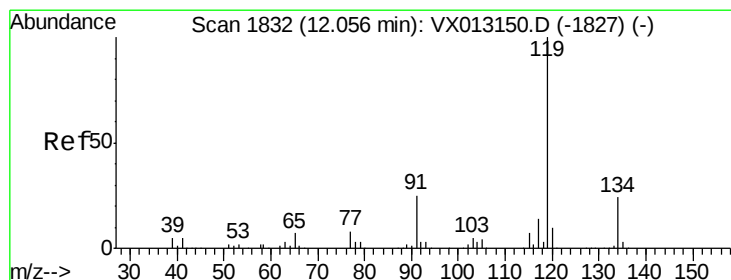
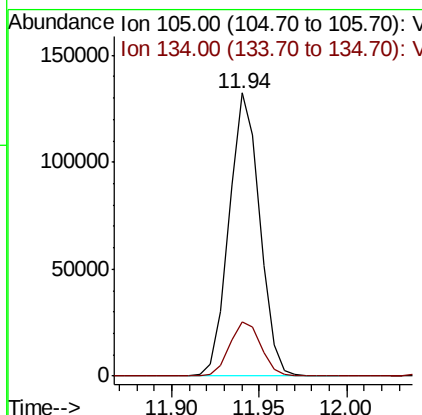
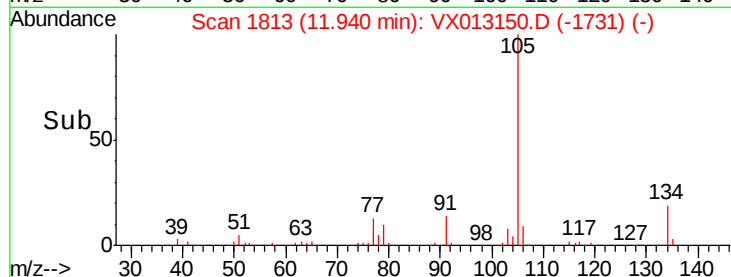
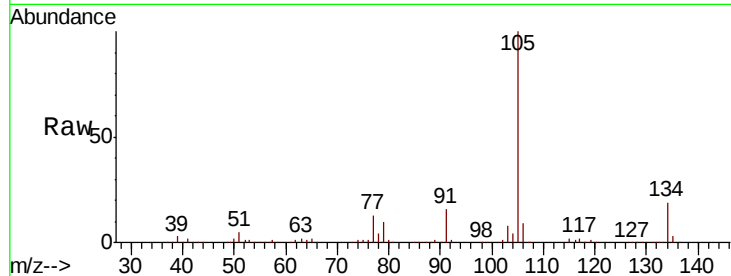




#81  
 sec-Butylbenzene  
 Concen: 19.726 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

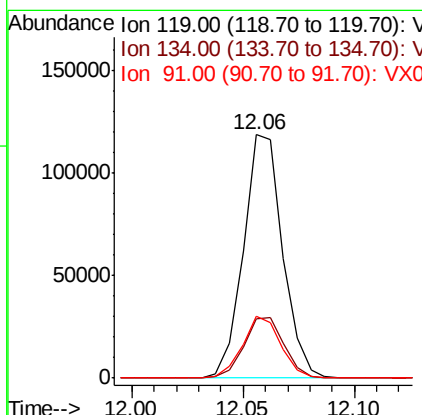
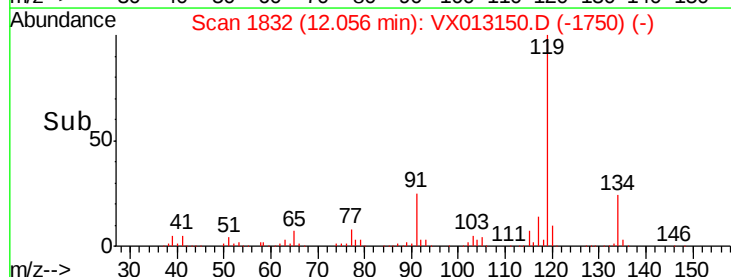
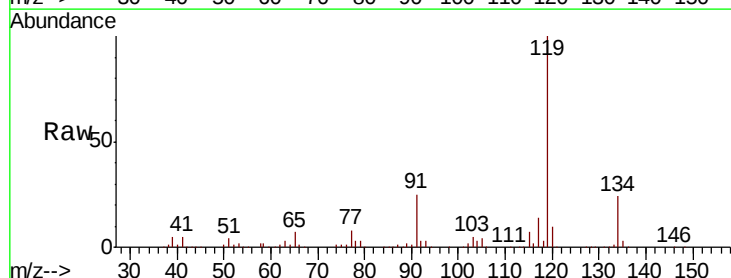
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

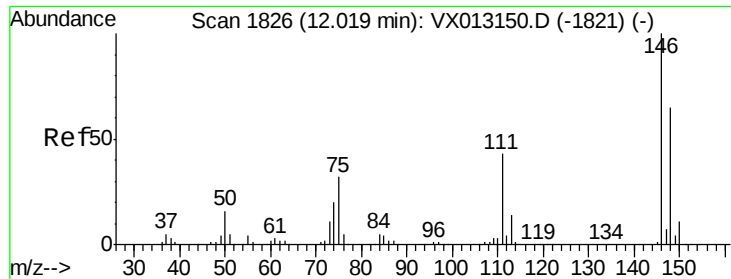
Tot Ion:105 Resp: 161083  
 Ion Ratio Lower Upper  
 105 100  
 134 19.6 0.0 39.2



#82  
 p-Isopropyltoluene  
 Concen: 19.497 ug/l  
 RT: 12.06 min Scan# 1832  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Tgt Ion:119 Resp: 145443  
 Ion Ratio Lower Upper  
 119 100  
 134 25.8 0.0 51.6  
 91 25.0 0.0 50.0

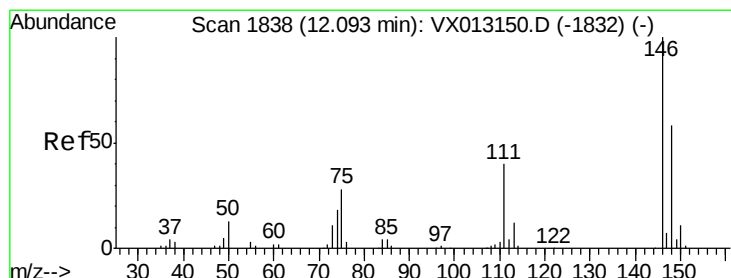
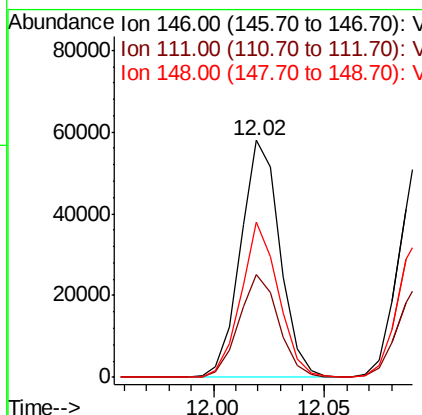
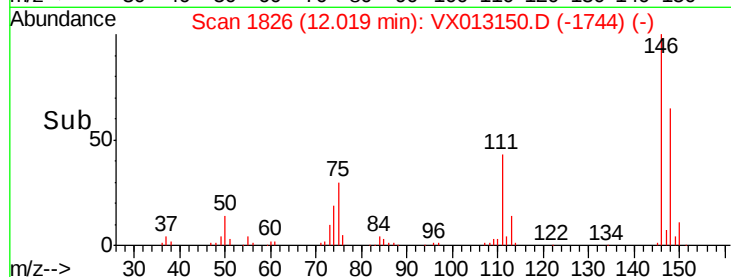
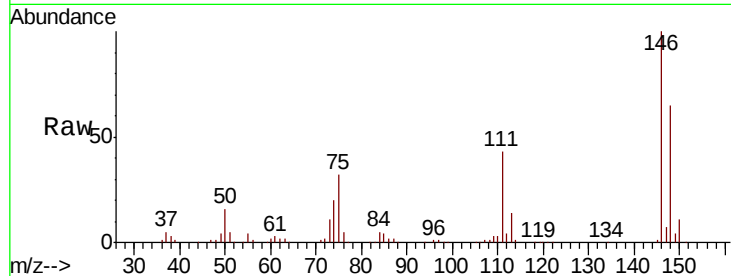




#83  
 1,3-Dichlorobenzene  
 Concen: 19.687 ug/l  
 RT: 12.02 min Scan# 1826  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

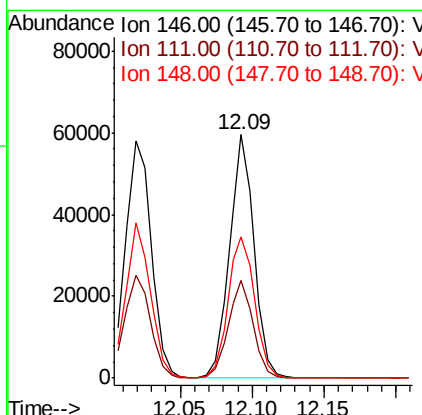
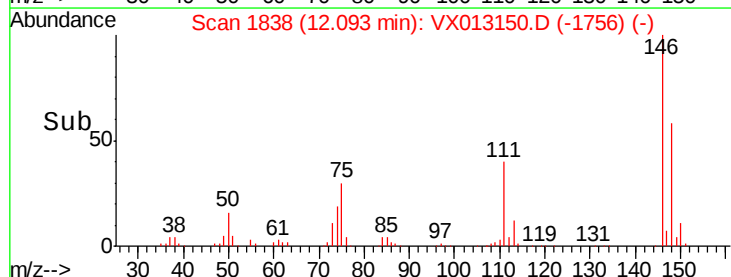
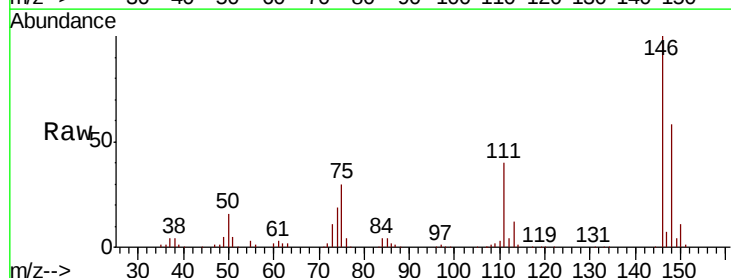
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

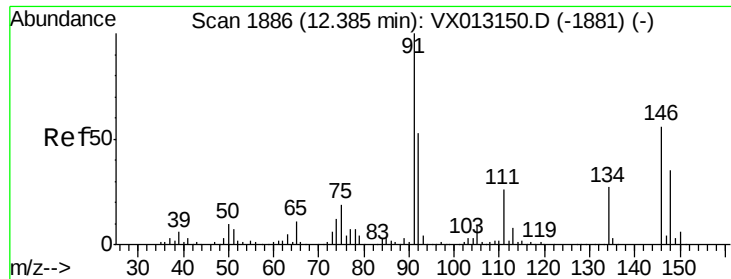
Tot Ion:146 Resp: 71645  
 Ion Ratio Lower Upper  
 146 100  
 111 43.6 21.8 65.4  
 148 62.4 31.2 93.6



#84  
 1,4-Dichlorobenzene  
 Concen: 19.385 ug/l  
 RT: 12.09 min Scan# 1838  
 Delta R.T. 0.00 min  
 Lab File: VX013150.D  
 Acq: 21 Oct 2019 12:37

Tgt Ion:146 Resp: 71204  
 Ion Ratio Lower Upper  
 146 100  
 111 40.6 20.3 60.9  
 148 62.8 31.4 94.2

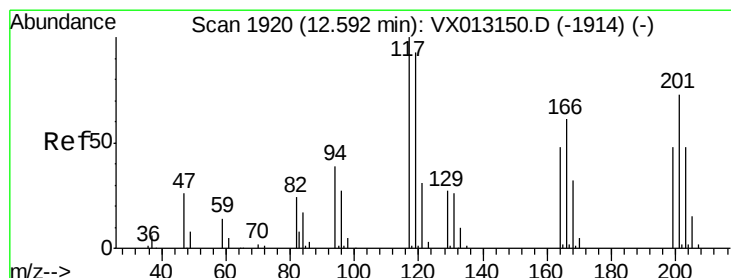
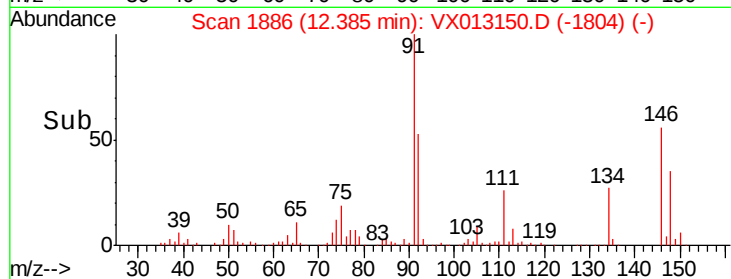
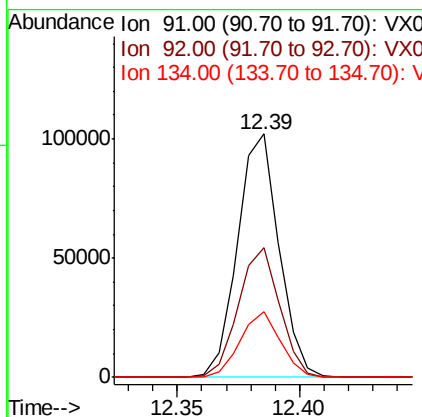
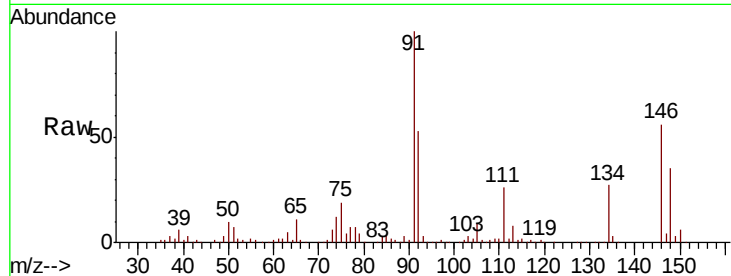




#85  
n-Butylbenzene  
Concen: 18.996 ug/l  
RT: 12.39 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

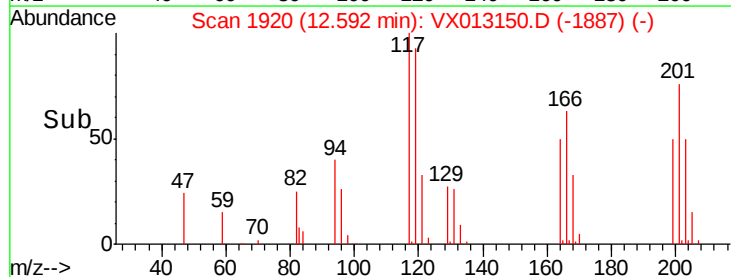
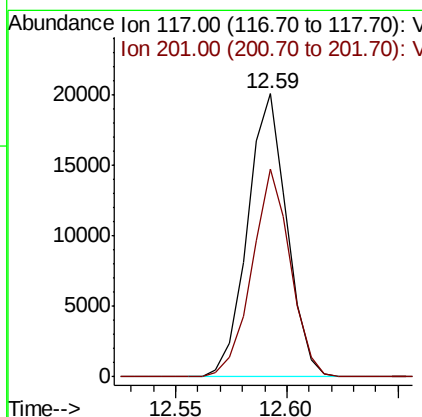
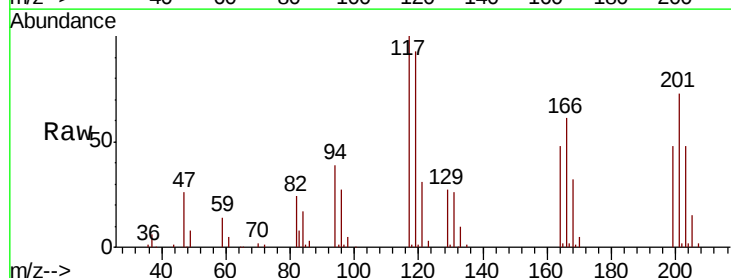
Instrument :  
MSVOA\_X  
ClientSampled :  
VSTDICCC020

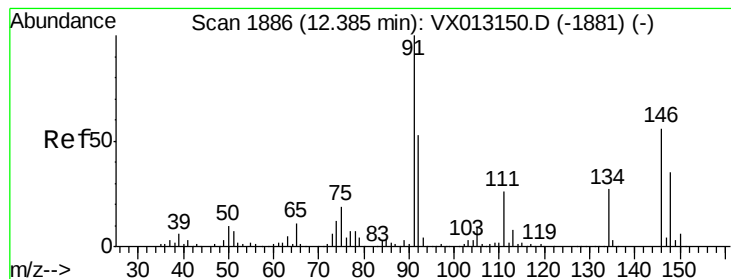
Tot Ion: 91 Resp: 120317  
Ion Ratio Lower Upper  
91 100  
92 53.4 0.0 106.8  
134 26.2 0.0 52.4



#86  
Hexachloroethane  
Concen: 19.166 ug/l  
RT: 12.59 min Scan# 1920  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion: 117 Resp: 24715  
Ion Ratio Lower Upper  
117 100  
201 71.7 35.9 107.5





#87

1,2-Dichlorobenzene

Concen: 19.939 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

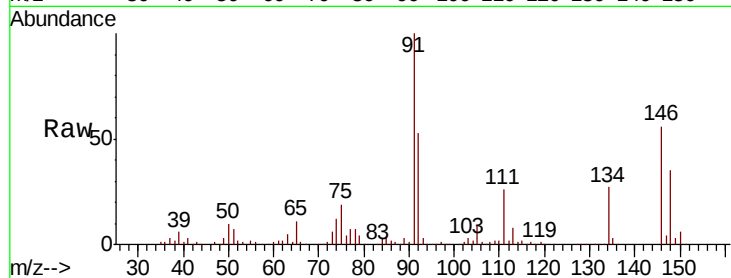
Tot Ion:146 Resp: 72047

Ion Ratio Lower Upper

146 100

111 45.0 22.5 67.5

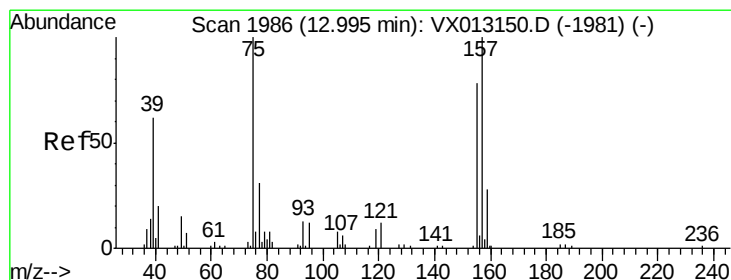
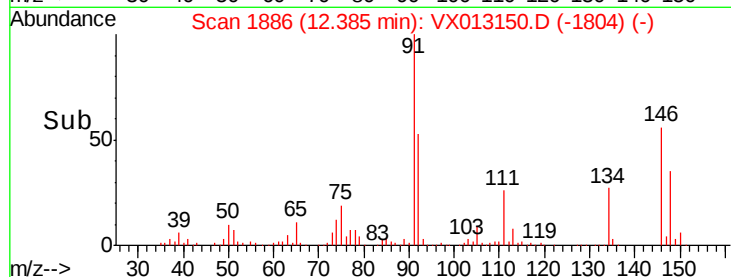
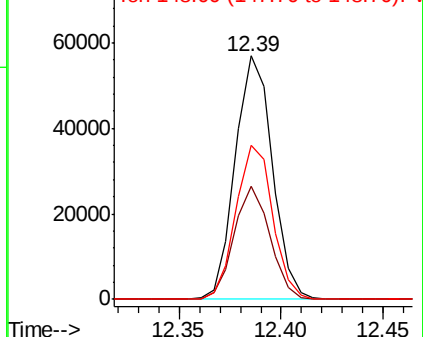
148 62.8 31.4 94.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.126 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VX013150.D

Acq: 21 Oct 2019 12:37

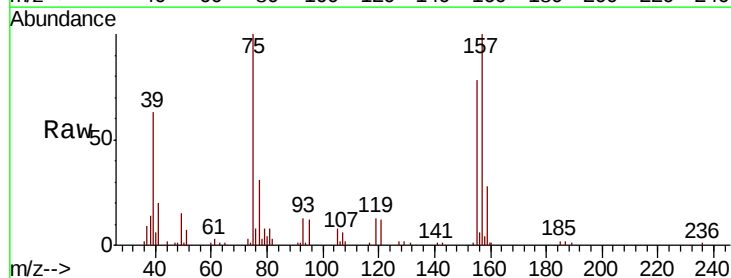
Tgt Ion: 75 Resp: 12882

Ion Ratio Lower Upper

75 100

155 81.7 65.4 98.0

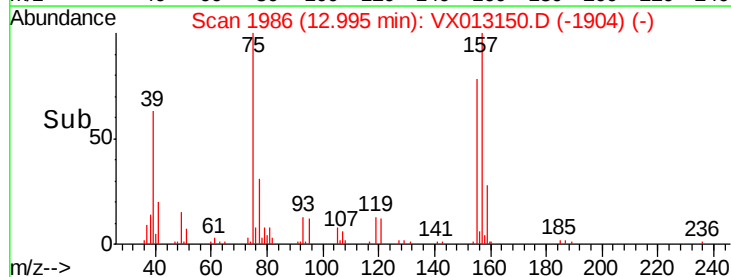
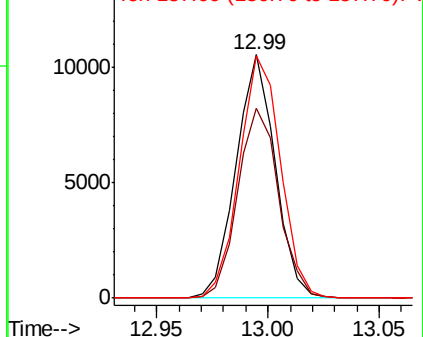
157 105.1 84.1 126.1

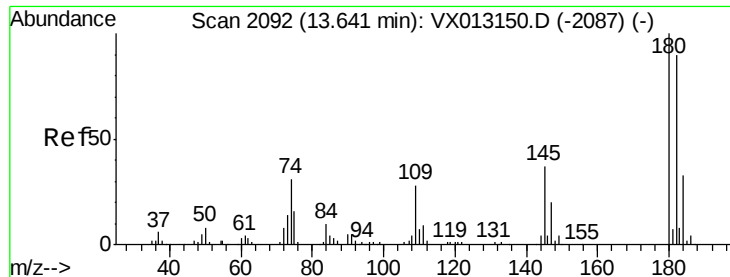


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

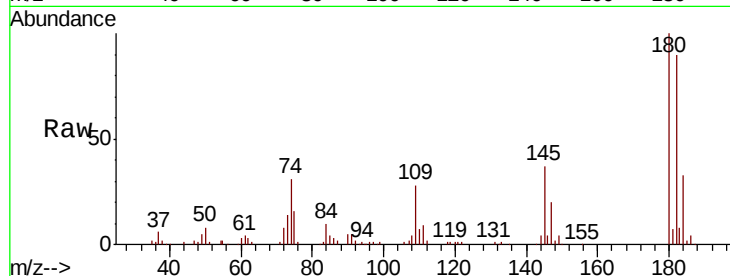




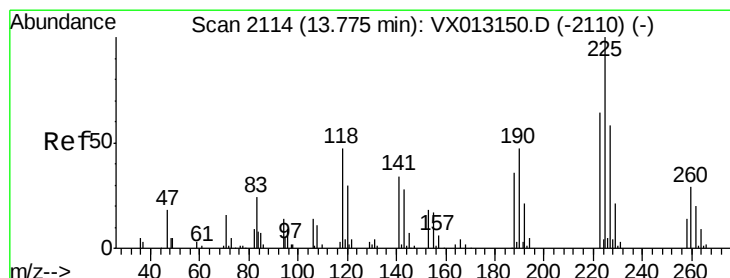
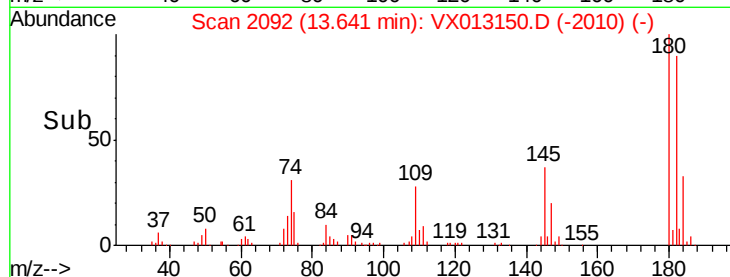
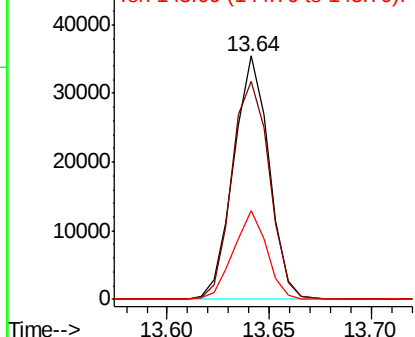
#89  
1,2,4-Trichlorobenzene  
Concen: 19.057 ug/l  
RT: 13.64 min Scan# 2092  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tot Ion:180 Resp: 42719  
Ion Ratio Lower Upper  
180 100  
182 95.1 76.1 114.1  
145 34.3 27.4 41.2

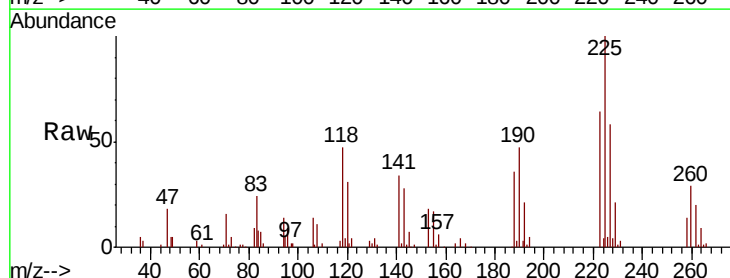


Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

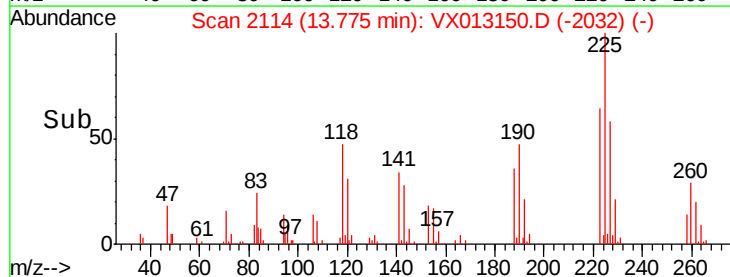
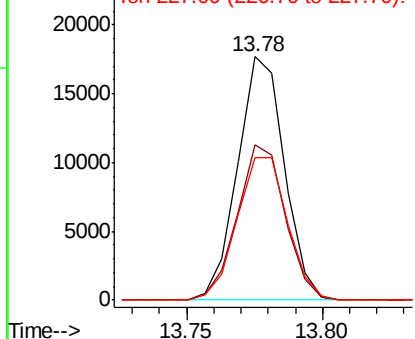


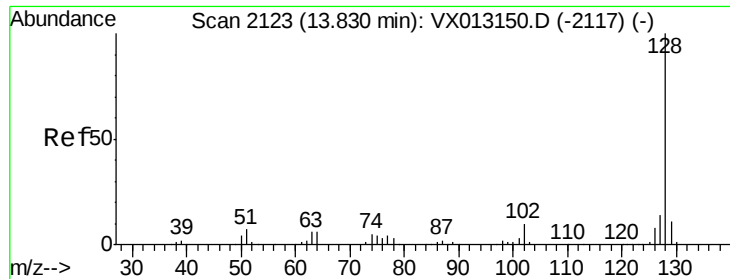
#90  
Hexachlorobutadiene  
Concen: 19.565 ug/l  
RT: 13.78 min Scan# 2114  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion:225 Resp: 21091  
Ion Ratio Lower Upper  
225 100  
223 65.6 0.0 131.2  
227 63.5 0.0 127.0



Abundance Ion 225.00 (224.70 to 225.70): V  
Ion 223.00 (222.70 to 223.70): V  
Ion 227.00 (226.70 to 227.70): V

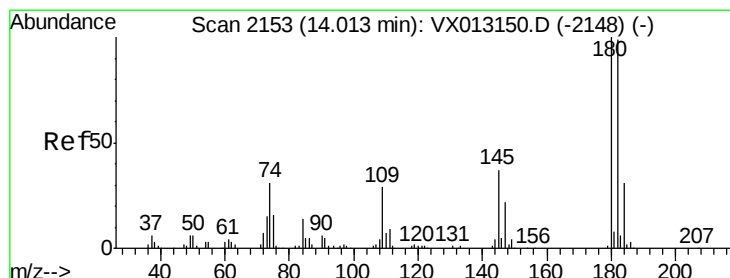
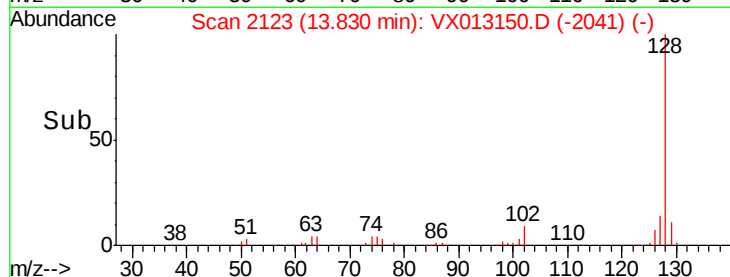
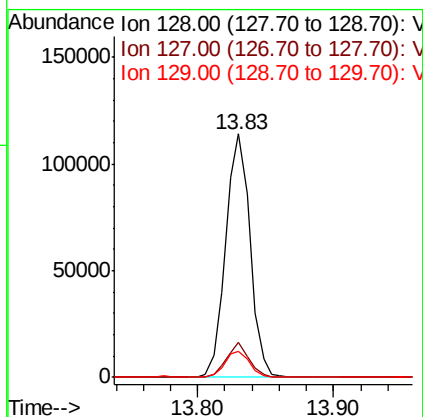
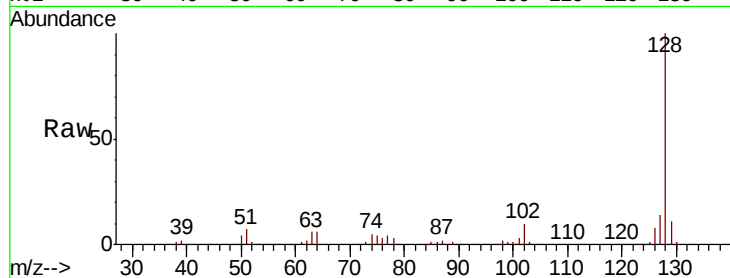




#91  
Naphthalene  
Concen: 18.746 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tot Ion:128 Resp: 141838  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 10.7 8.6 12.8



#92  
1,2,3-Trichlorobenzene  
Concen: 19.586 ug/l  
RT: 14.01 min Scan# 2153  
Delta R.T. 0.00 min  
Lab File: VX013150.D  
Acq: 21 Oct 2019 12:37

Tgt Ion:180 Resp: 44273  
Ion Ratio Lower Upper  
180 100  
182 97.2 0.0 194.4  
145 35.6 0.0 71.2

