

Data File : VR026235.D  
Acq On : 20 Nov 2018 17:25  
Operator : SY/MD  
Sample : VSTD02092  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02092

Quant Time: Nov 20 17:51:58 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR112018WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 20 17:01:24 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 714381   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 625740   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 266476   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.17  | 65  | 1027572 | 19.49  | ug/L | 0.01 |
| 7) Chloroethane-d5             | 2.63  | 69  | 890813  | 18.11  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 3.61  | 63  | 2556017 | 18.39  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 6.59  | 46  | 1169166 | 255.11 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.20  | 84  | 2138843 | 22.85  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 7.90  | 65  | 841808  | 22.64  | ug/L | 0.00 |
| 32) Benzene-d6                 | 7.86  | 84  | 4400684 | 24.57  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 8.90  | 67  | 1091504 | 22.91  | ug/L | 0.00 |
| 41) Toluene-d8                 | 9.97  | 98  | 4240933 | 25.50  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.24 | 79  | 330606  | 27.72  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 10.59 | 63  | 871900  | 250.79 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36 | 84  | 439495  | 22.40  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 13.52 | 152 | 957090  | 24.73  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.84 | 85  | 939851  | 20.736 ug/L  | 98     |
| 3) Chloromethane               | 2.02 | 50  | 1165564 | 14.996 ug/L  | 98     |
| 5) Vinyl chloride              | 2.17 | 62  | 1166548 | 15.220 ug/L  | 94     |
| 6) Bromomethane                | 2.53 | 94  | 775147  | 15.196 ug/L  | 98     |
| 8) Chloroethane                | 2.66 | 64  | 716170  | 14.787 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 2.94 | 101 | 732574  | 7.111 ug/L   | # 40   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 974572  | 16.471 ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 1087567 | 15.577 ug/L  | 99     |
| 13) Acetone                    | 3.70 | 43  | 804176  | 166.013 ug/L | 98     |
| 14) Carbon disulfide           | 3.94 | 76  | 3066826 | 16.138 ug/L  | 99     |
| 15) Methyl Acetate             | 4.20 | 43  | 203413  | 16.149 ug/L  | 99     |
| 16) Methylene chloride         | 4.40 | 84  | 920745  | 15.645 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 4.89 | 73  | 1377383 | 23.321 ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 4.89 | 96  | 1132731 | 21.031 ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 1935915 | 19.625 ug/L  | 97     |
| 21) 2-Butanone                 | 6.69 | 43  | 1196547 | 213.870 ug/L | 97     |
| 22) cis-1,2-Dichloroethene     | 6.68 | 96  | 1069606 | 22.452 ug/L  | # 96   |
| 23) Bromochloromethane         | 7.06 | 128 | 294048  | 20.215 ug/L  | 96     |
| 25) Chloroform                 | 7.23 | 83  | 1907285 | 19.805 ug/L  | 97     |
| 27) 1,2-Dichloroethane         | 7.99 | 62  | 837990  | 18.746 ug/L  | 100    |
| 29) 1,1,1-Trichloroethane      | 7.43 | 97  | 1718153 | 20.510 ug/L  | 98     |
| 30) Cyclohexane                | 7.52 | 56  | 1689485 | 23.023 ug/L  | 98     |
| 31) Carbon tetrachloride       | 7.64 | 117 | 1538480 | 20.688 ug/L  | 97     |
| 33) Benzene                    | 7.91 | 78  | 4544529 | 20.122 ug/L  | 100    |
| 34) Trichloroethene            | 8.71 | 95  | 1197771 | 20.817 ug/L  | 97     |
| 35) Methylcyclohexane          | 8.96 | 83  | 1739135 | 23.243 ug/L  | 99     |
| 37) 1,2-Dichloropropane        | 9.00 | 63  | 912240  | 19.255 ug/L  | 98     |
| 38) Bromodichloromethane       | 9.28 | 83  | 1079723 | 20.428 ug/L  | 95     |
| 39) cis-1,3-Dichloropropene    | 9.72 | 75  | 1236366 | 23.088 ug/L  | 100    |
| 40) 4-Methyl-2-pentanone       | 9.87 | 43  | 2903864 | 216.936 ug/L | 96     |

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 20 17:01:24 2018  
Response via : Initial Calibration

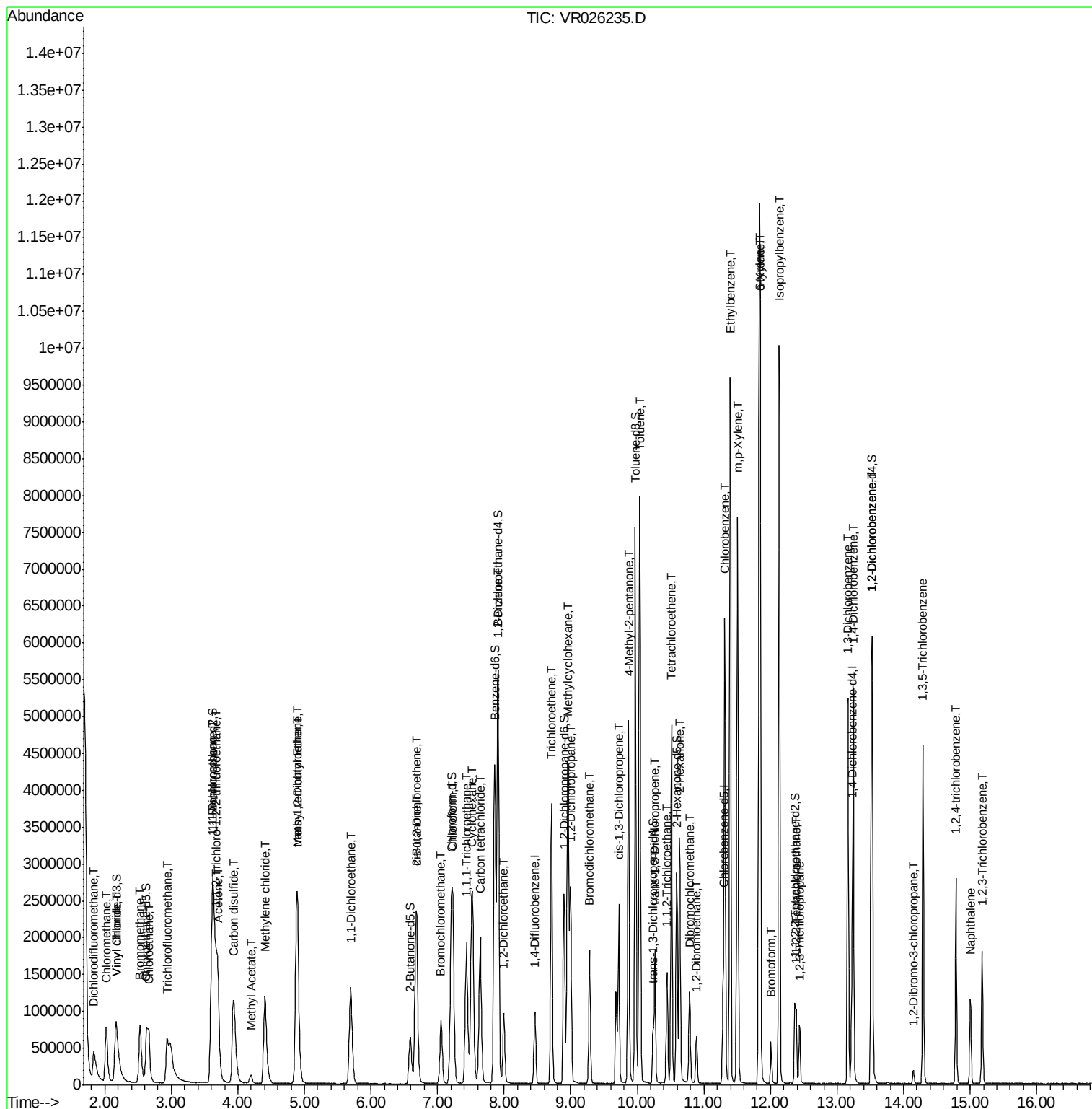
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 42) Toluene                    | 10.04 | 91   | 4910020  | 20.868  | ug/L   | 92       |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 844950   | 23.653  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 400843   | 19.602  | ug/L   | 96       |
| 47) Tetrachloroethene          | 10.51 | 164  | 914678   | 23.271  | ug/L   | 95       |
| 48) 2-Hexanone                 | 10.63 | 43   | 1942092  | 215.144 | ug/L   | 99       |
| 49) Dibromochloromethane       | 10.79 | 129  | 531508   | 21.946  | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 359687   | 20.747  | ug/L # | 91       |
| 51) Chlorobenzene              | 11.32 | 112  | 2662367  | 20.368  | ug/L   | 99       |
| 52) Ethylbenzene               | 11.39 | 91   | 5470158  | 20.496  | ug/L   | 90       |
| 53) m,p-Xylene                 | 11.50 | 106  | 2189198  | 22.598  | ug/L   | 91       |
| 54) o-Xylene                   | 11.83 | 106  | 2120834  | 23.990  | ug/L   | 86       |
| 55) Styrene                    | 11.84 | 104  | 3209169  | 23.353  | ug/L   | 100      |
| 56) Isopropylbenzene           | 12.13 | 105  | 5345468  | 22.390  | ug/L   | 96       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.39 | 83   | 380769   | 19.277  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 280407   | 18.853  | ug/L   | 97       |
| 61) Bromoform                  | 12.01 | 173  | 215880   | 20.493  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 1776159  | 22.023  | ug/L   | 100      |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 1758602  | 19.827  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 1389352  | 20.529  | ug/L   | 93       |
| 66) 1,2-Dibromo-3-chloropropan | 14.15 | 75   | 43689    | 17.402  | ug/L   | 94       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 1150056  | 22.893  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 14.79 | 180  | 695987   | 24.819  | ug/L   | 99       |
| 69) Naphthalene                | 15.00 | 128  | 783837   | 26.493  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 464989   | 23.692  | ug/L   | 98       |

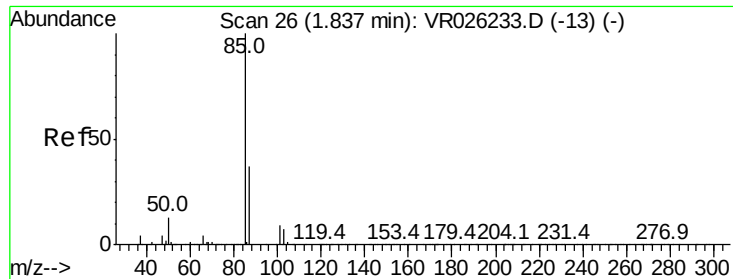
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#2

Dichlorodifluoromethane

Concen: 20.736 ug/L

RT: 1.84 min Scan# 26

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

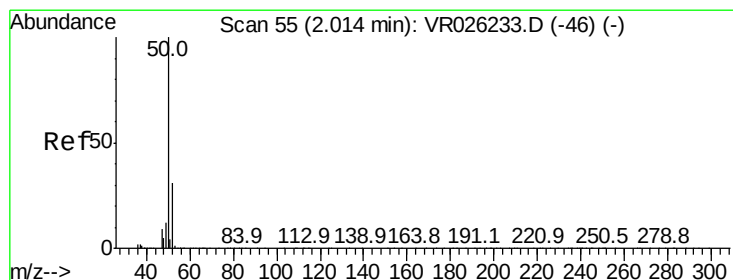
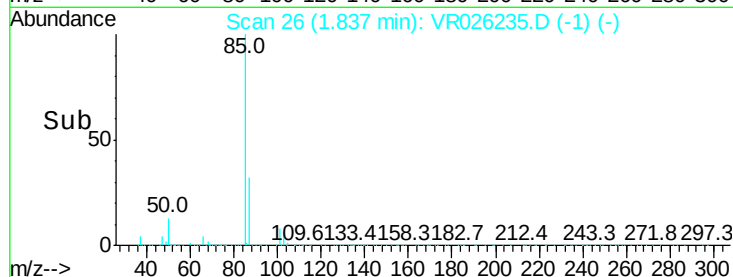
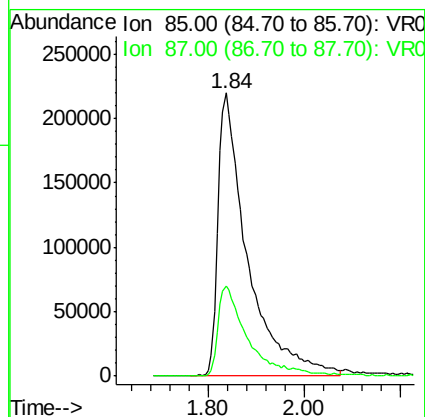
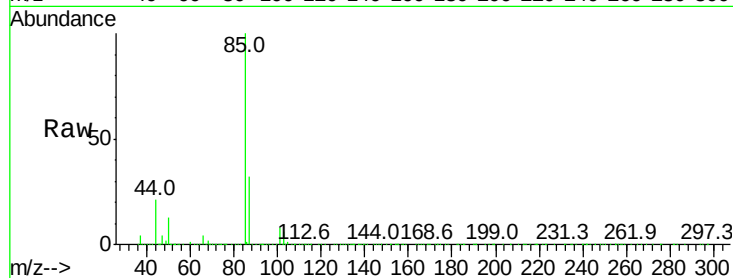
VSTD02092

Tgt Ion: 85 Resp: 939851

Ion Ratio Lower Upper

85 100

87 30.1 23.2 34.8



#3

Chloromethane

Concen: 14.996 ug/L

RT: 2.02 min Scan# 56

Delta R.T. 0.01 min

Lab File: VR026235.D

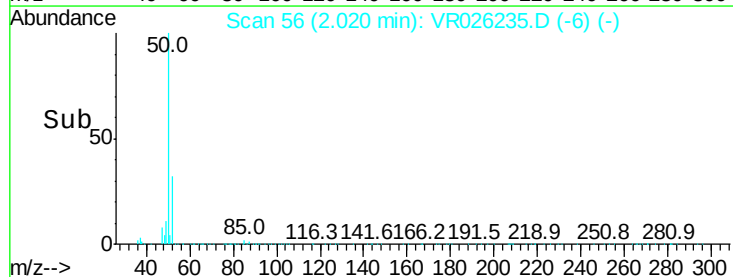
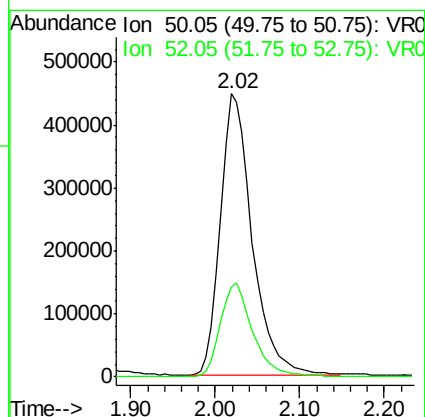
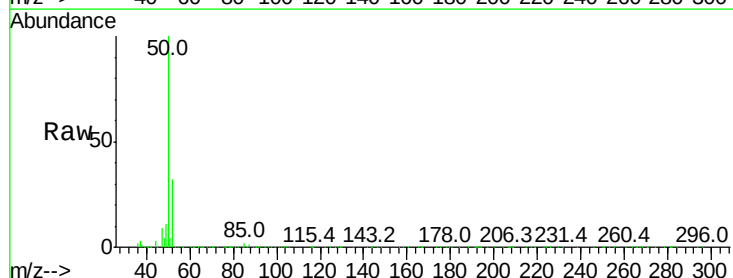
Acq: 20 Nov 2018 17:25

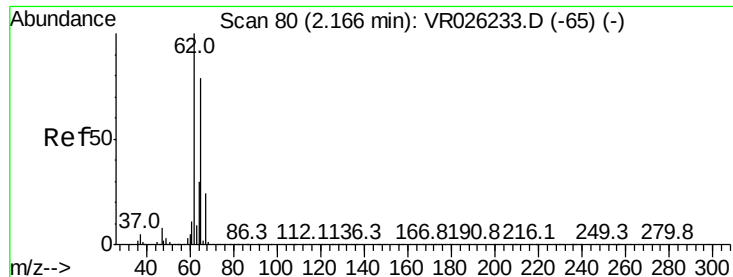
Tgt Ion: 50 Resp: 1165564

Ion Ratio Lower Upper

50 100

52 31.9 21.4 39.8





#5

Vinyl chloride

Concen: 15.220 ug/L

RT: 2.17 min Scan# 81

Delta R.T. 0.01 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

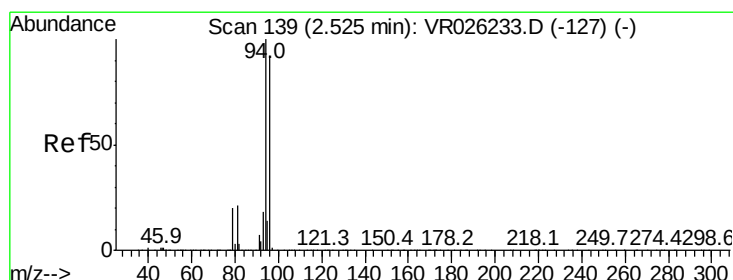
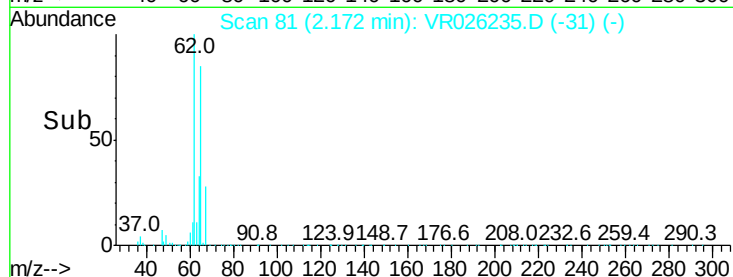
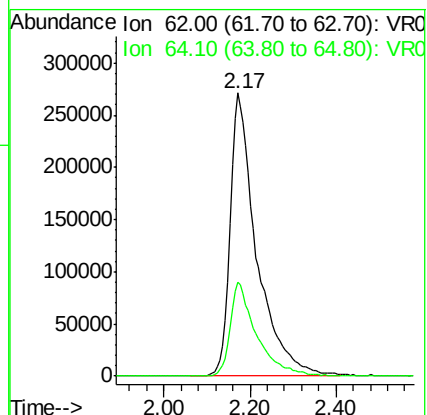
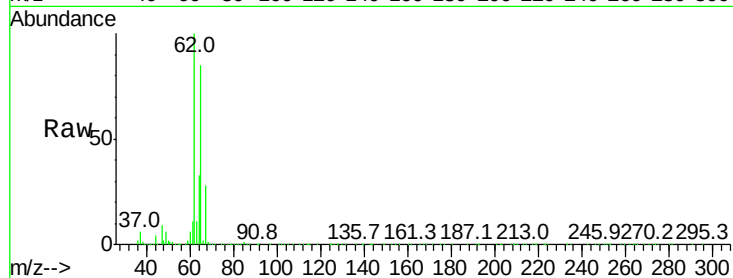
VSTD02092

Tgt Ion: 62 Resp: 1166548

Ion Ratio Lower Upper

62 100

64 33.4 21.3 39.5



#6

Bromomethane

Concen: 15.196 ug/L

RT: 2.53 min Scan# 140

Delta R.T. 0.01 min

Lab File: VR026235.D

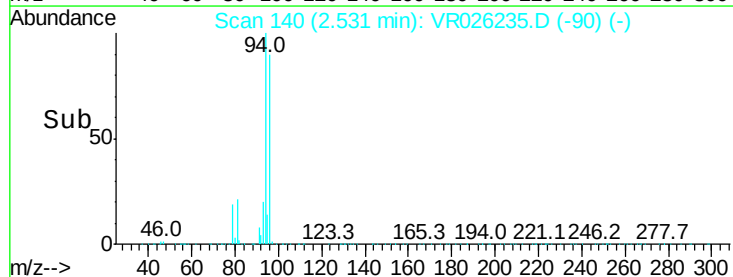
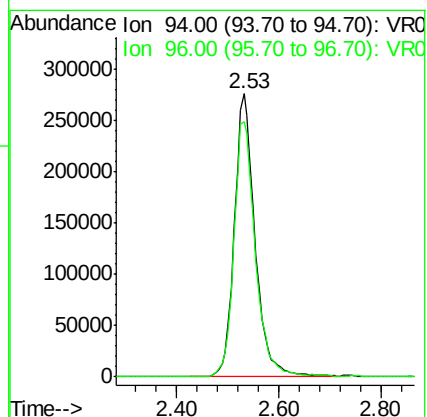
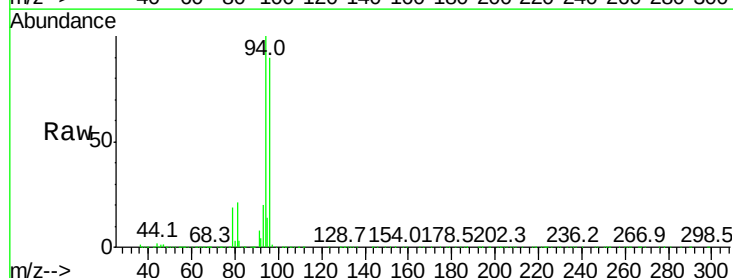
Acq: 20 Nov 2018 17:25

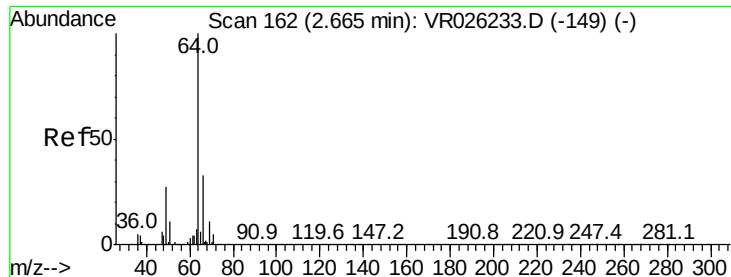
Tgt Ion: 94 Resp: 775147

Ion Ratio Lower Upper

94 100

96 90.3 64.6 120.0

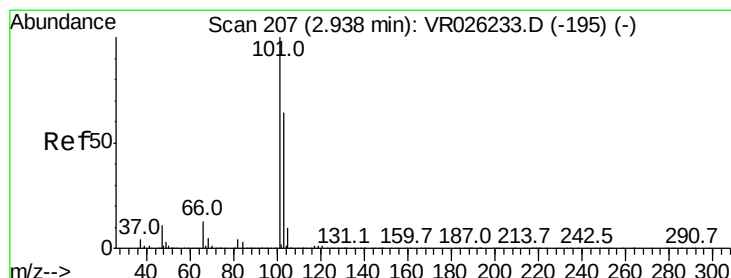
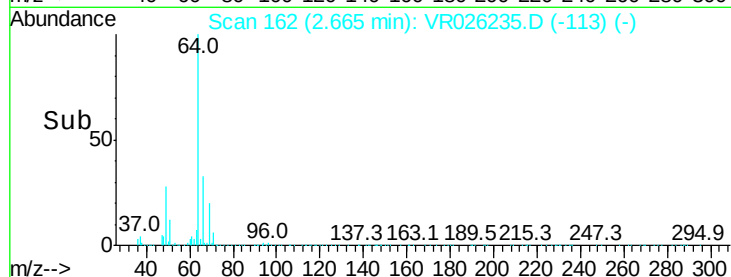
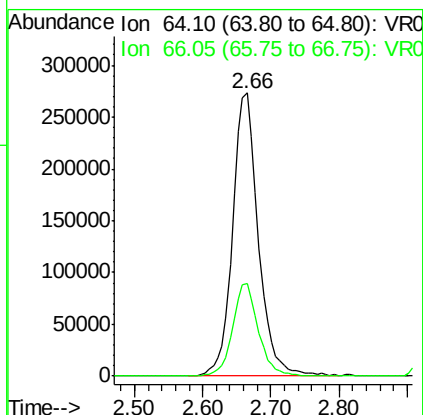
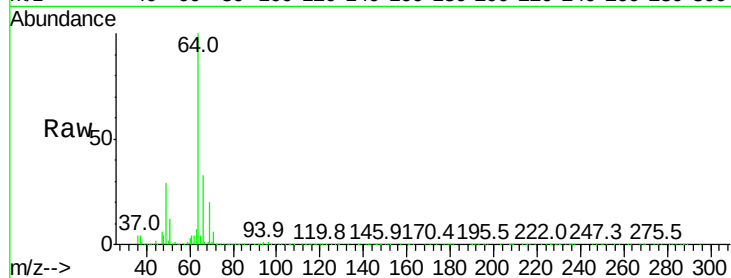




#8  
Chloroethane  
Concen: 14.787 ug/L  
RT: 2.66 min Scan# 162  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

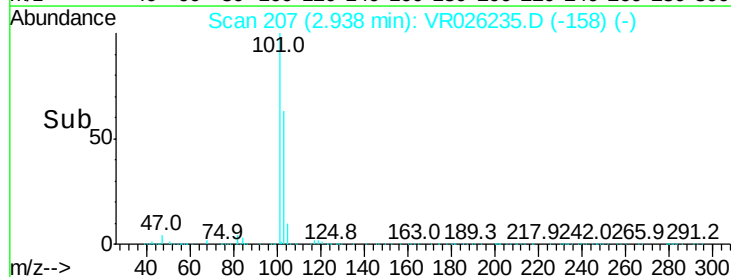
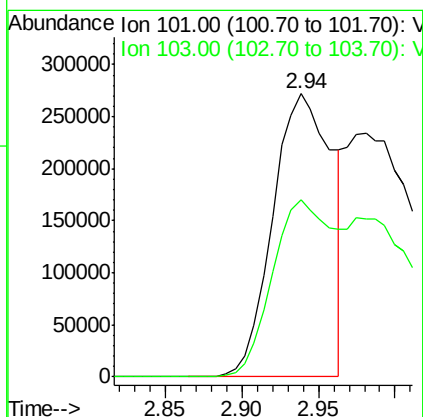
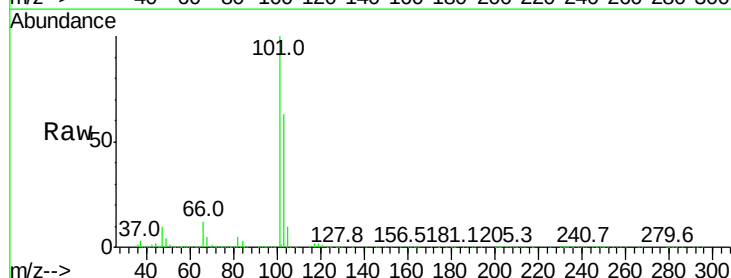
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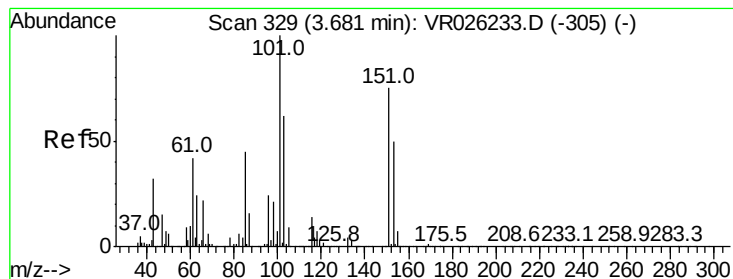
Tgt Ion: 64 Resp: 716170  
Ion Ratio Lower Upper  
64 100  
66 32.6 22.7 42.3



#9  
Trichlorofluoromethane  
Concen: 7.111 ug/L  
RT: 2.94 min Scan# 207  
Delta R.T. -0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Tgt Ion: 101 Resp: 732574  
Ion Ratio Lower Upper  
101 100  
103 63.7 24.6 37.0#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 16.471 ug/L

RT: 3.69 min Scan# 330

Delta R.T. 0.01 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

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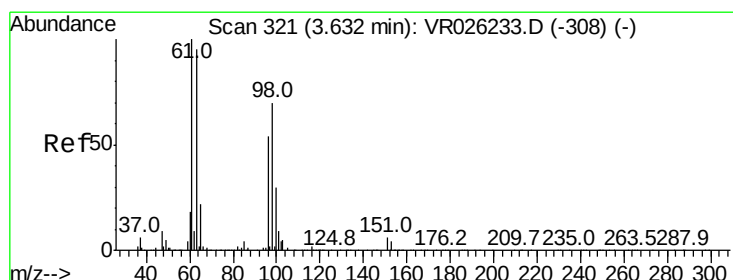
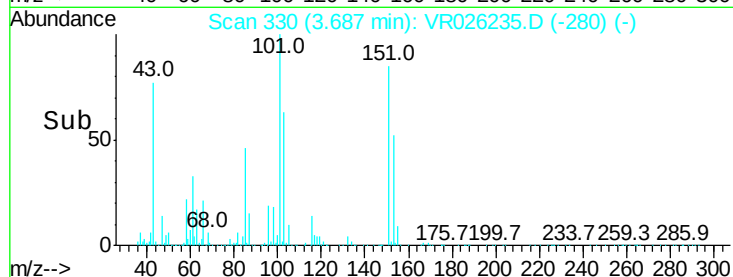
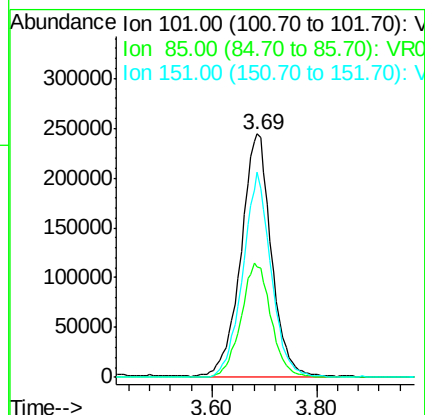
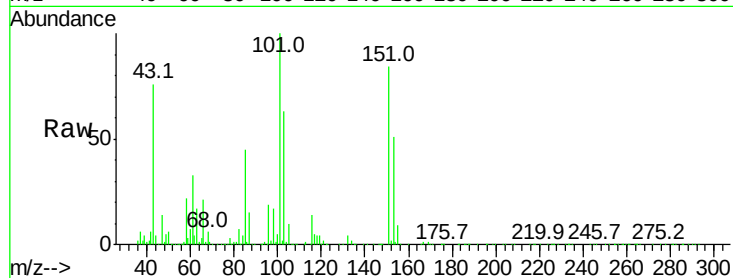
Tgt Ion:101 Resp: 974572

Ion Ratio Lower Upper

101 100

85 46.5 37.4 56.0

151 79.2 63.3 94.9



#12

1,1-Dichloroethene

Concen: 15.577 ug/L

RT: 3.63 min Scan# 321

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

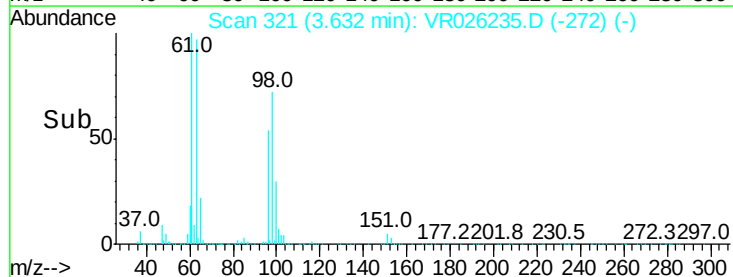
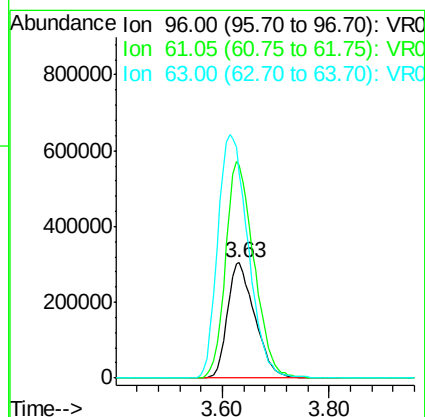
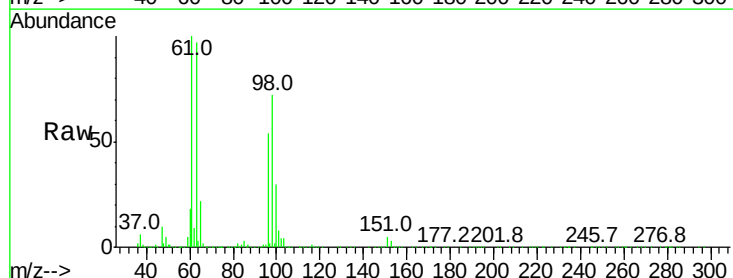
Tgt Ion: 96 Resp: 1087567

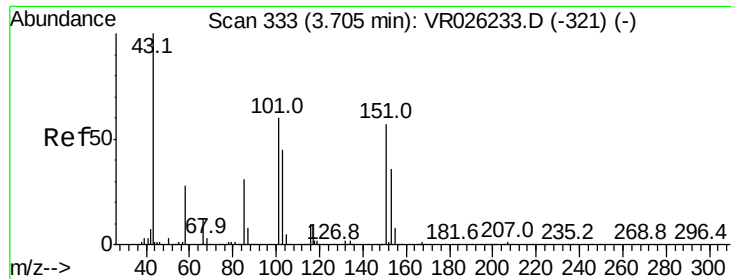
Ion Ratio Lower Upper

96 100

61 184.2 128.7 239.1

63 178.1 122.6 227.6

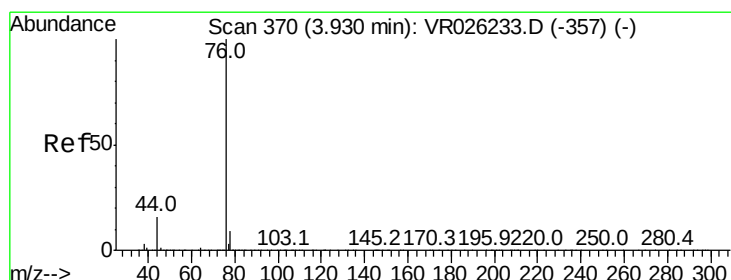
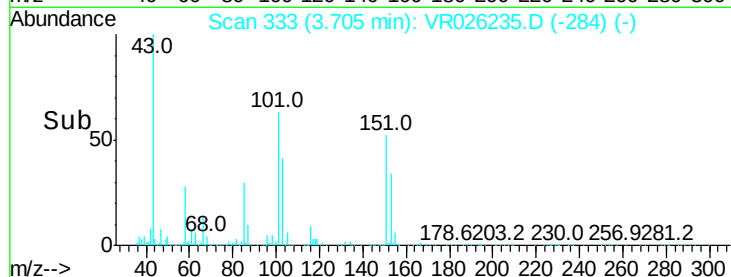
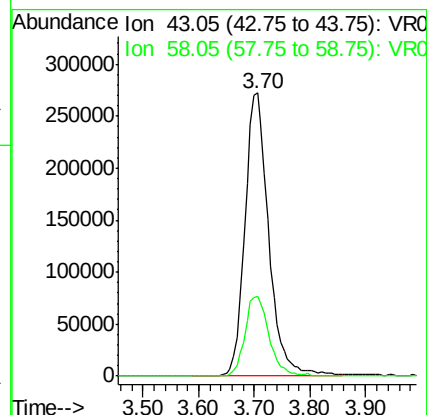
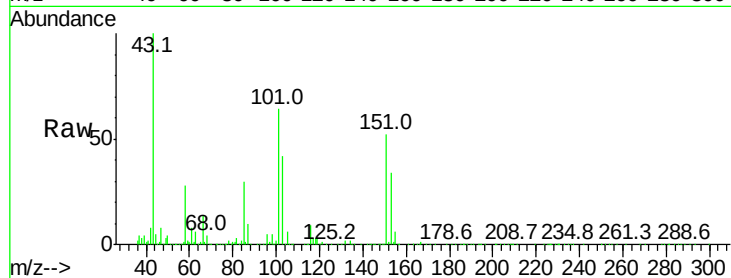




#13  
Acetone  
Concen: 166.013 ug/L  
RT: 3.70 min Scan# 333  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

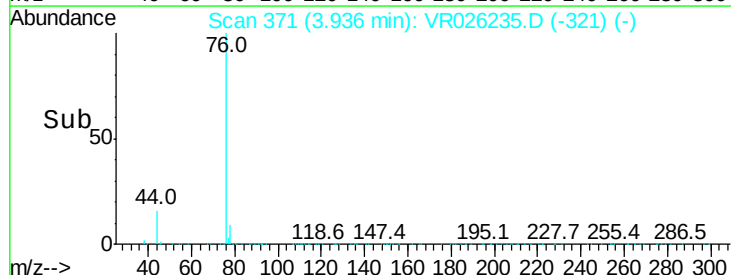
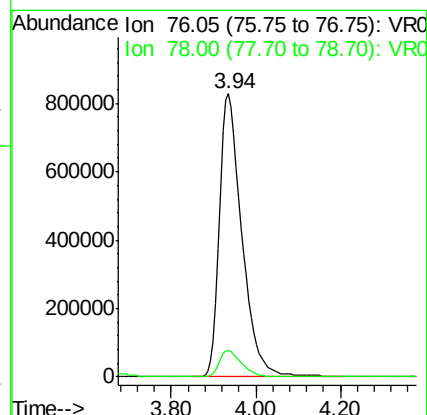
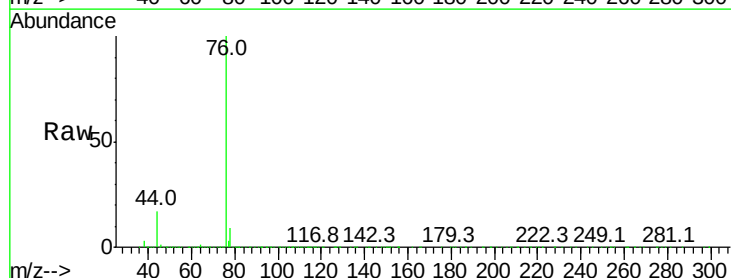
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Tgt Ion: 43 Resp: 804176  
Ion Ratio Lower Upper  
43 100  
58 28.4 0.0 55.0

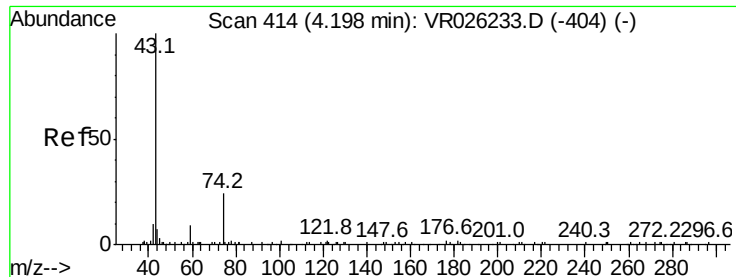


#14  
Carbon disulfide  
Concen: 16.138 ug/L  
RT: 3.94 min Scan# 371  
Delta R.T. 0.01 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Tgt Ion: 76 Resp: 3066826  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.0 10.6



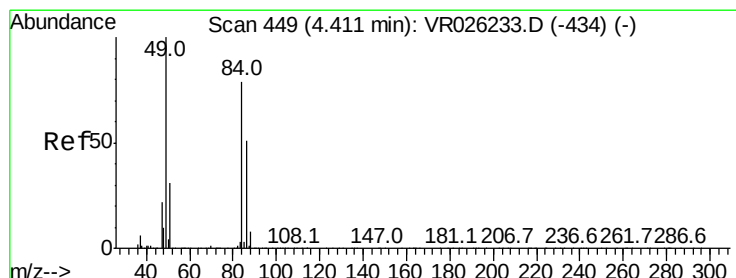
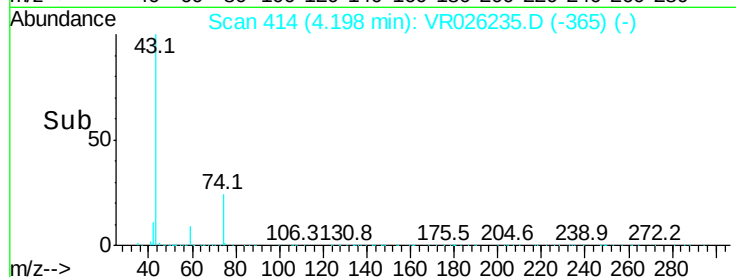
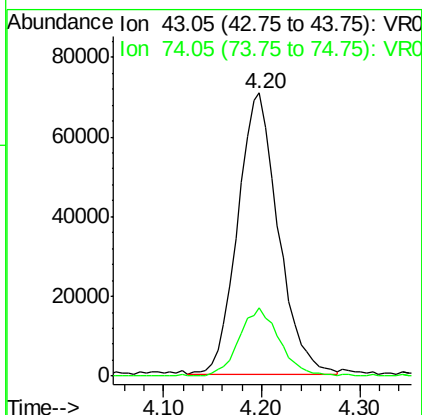
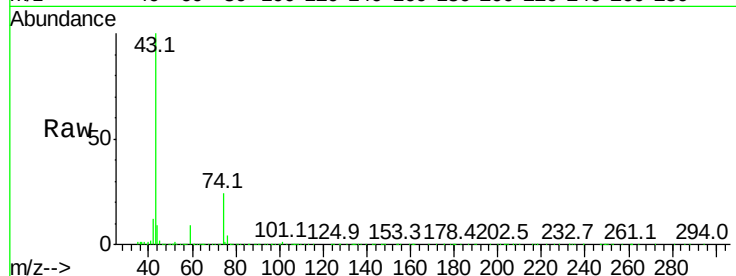




#15  
Methyl Acetate  
Concen: 16.149 ug/L  
RT: 4.20 min Scan# 414  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

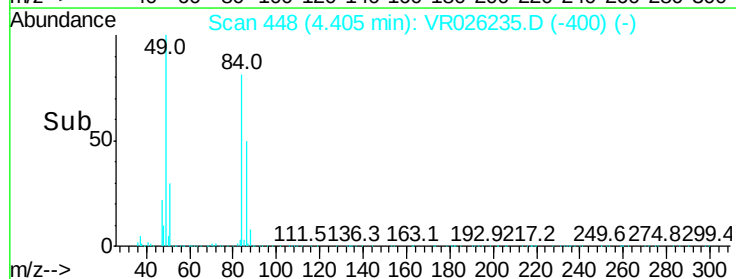
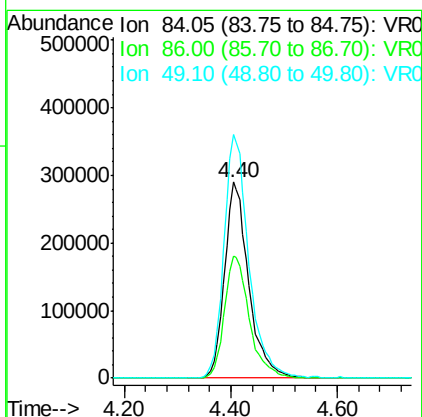
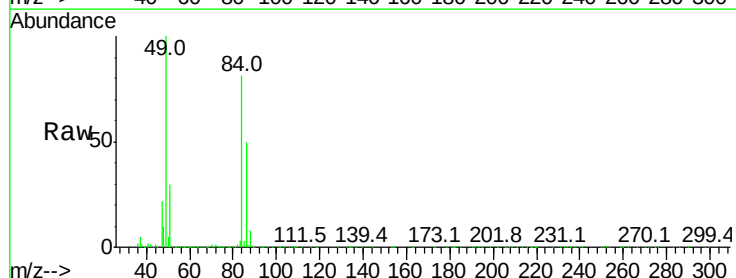
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02092

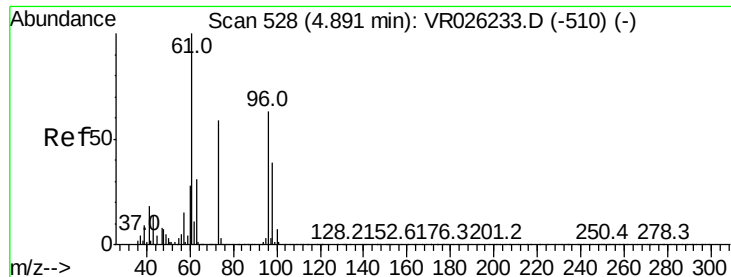
Tgt Ion: 43 Resp: 203413  
Ion Ratio Lower Upper  
43 100  
74 23.5 19.4 29.0



#16  
Methylene chloride  
Concen: 15.645 ug/L  
RT: 4.40 min Scan# 448  
Delta R.T. -0.01 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Tgt Ion: 84 Resp: 920745  
Ion Ratio Lower Upper  
84 100  
86 62.6 45.2 84.0  
49 124.2 88.3 164.1

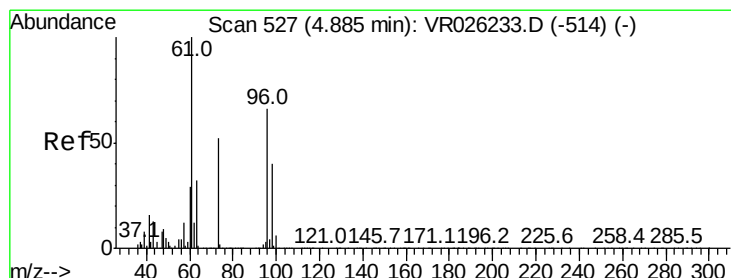
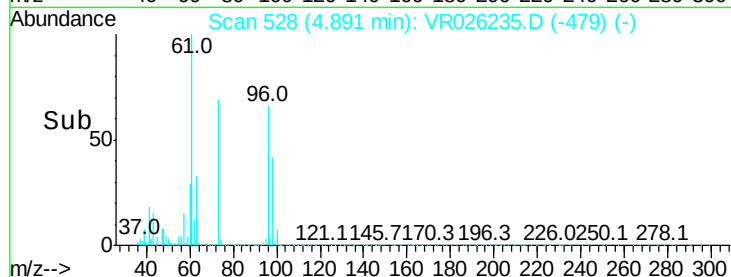
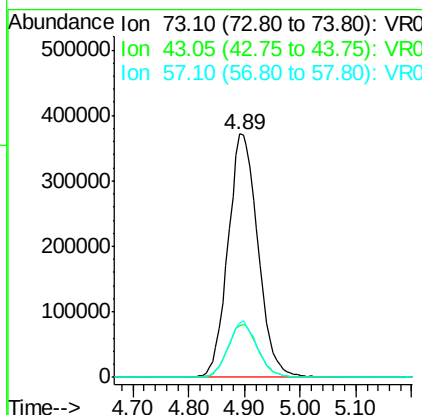
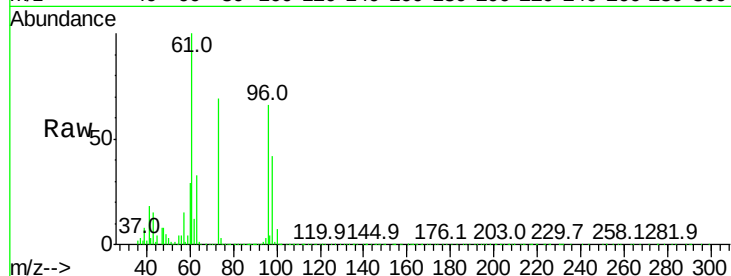




#17  
Methyl tert-butyl Ether  
Concen: 23.321 ug/L  
RT: 4.89 min Scan# 528  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

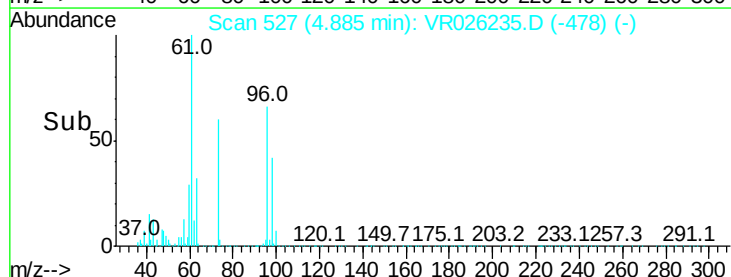
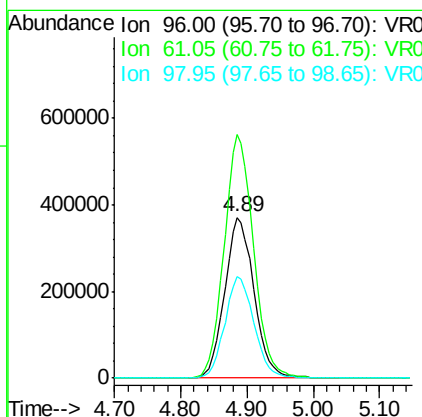
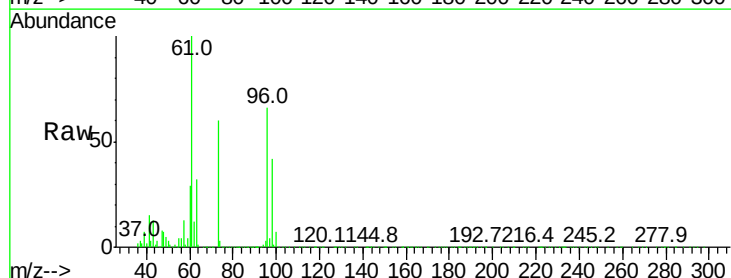
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02092

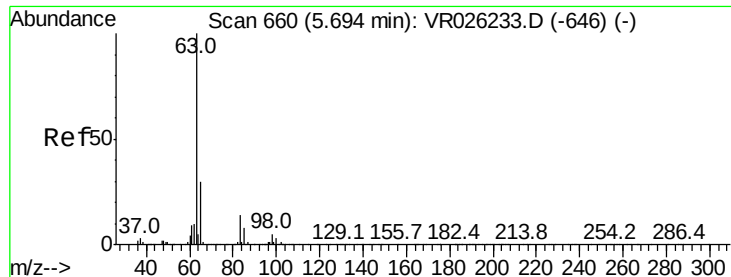
Tgt Ion: 73 Resp: 1377383  
Ion Ratio Lower Upper  
73 100  
43 22.0 19.0 28.4  
57 22.5 17.9 26.9



#18  
trans-1,2-Dichloroethene  
Concen: 21.031 ug/L  
RT: 4.89 min Scan# 527  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Tgt Ion: 96 Resp: 1132731  
Ion Ratio Lower Upper  
96 100  
61 151.7 105.4 195.8  
98 63.3 42.1 78.1



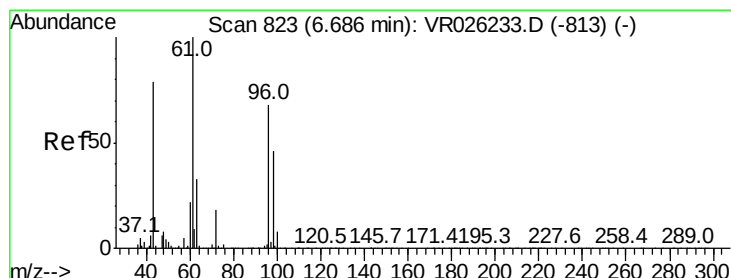
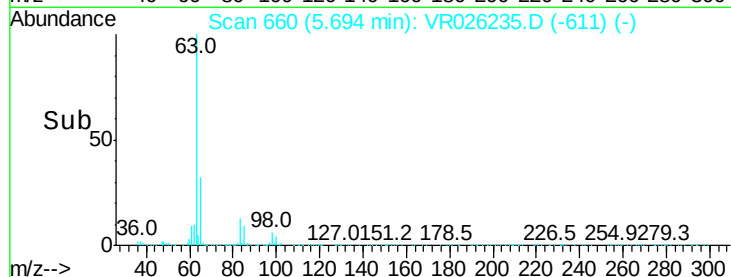
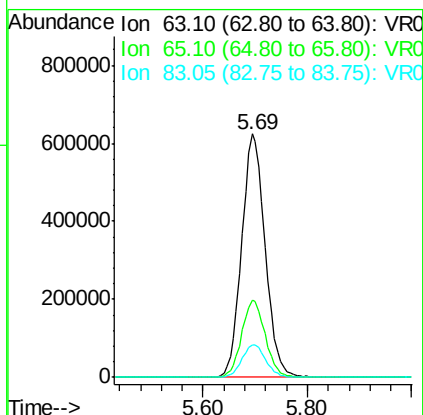
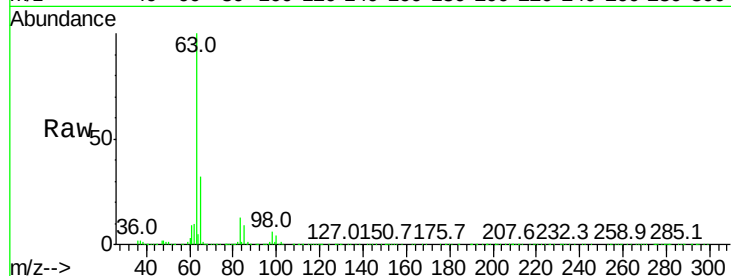


#19  
 1,1-Dichloroethane  
 Concen: 19.625 ug/L  
 RT: 5.69 min Scan# 660  
 Delta R.T. 0.00 min  
 Lab File: VR026235.D  
 Acq: 20 Nov 2018 17:25

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD02092

Tgt Ion: 63 Resp: 1935915  

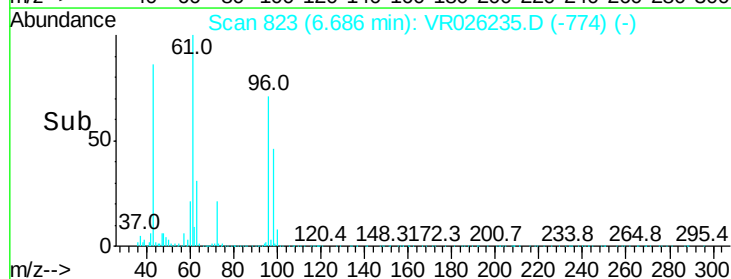
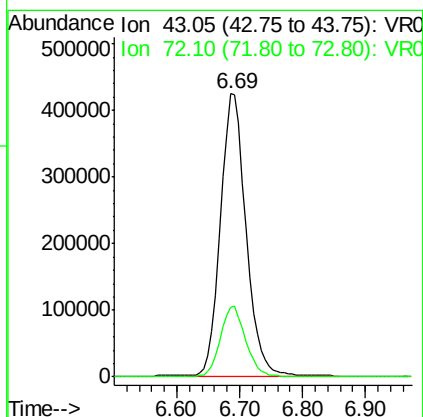
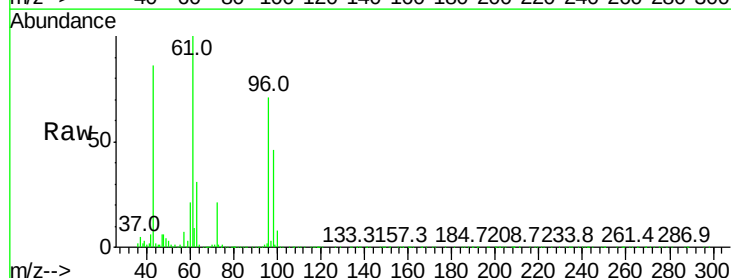
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.8  | 21.1  | 39.3  |
| 83  | 13.3  | 9.9   | 18.5  |

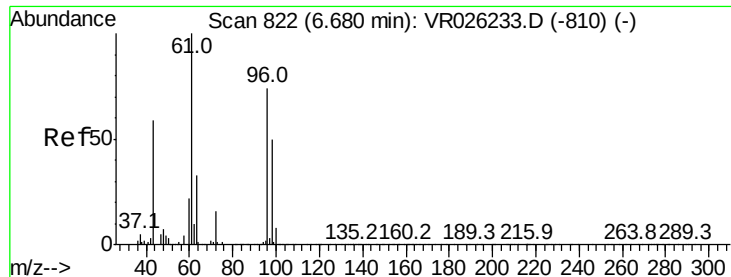


#21  
 2-Butanone  
 Concen: 213.870 ug/L  
 RT: 6.69 min Scan# 823  
 Delta R.T. 0.00 min  
 Lab File: VR026235.D  
 Acq: 20 Nov 2018 17:25

Tgt Ion: 43 Resp: 1196547  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 24.9  | 11.8  | 35.4  |



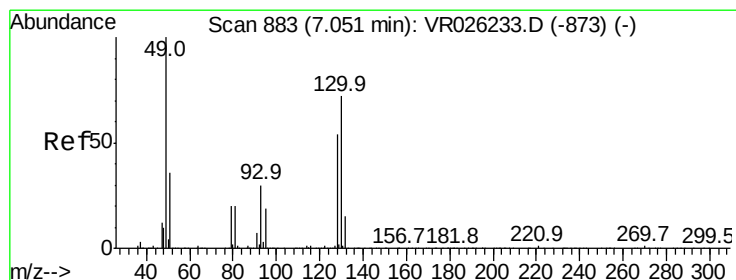
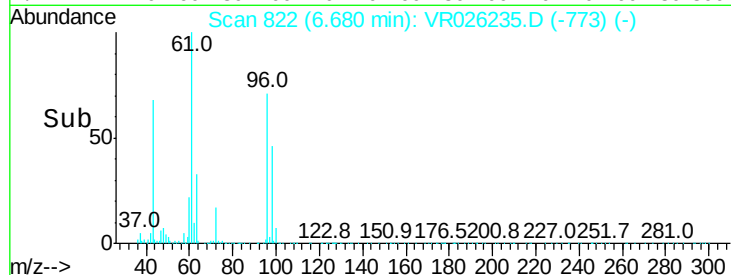
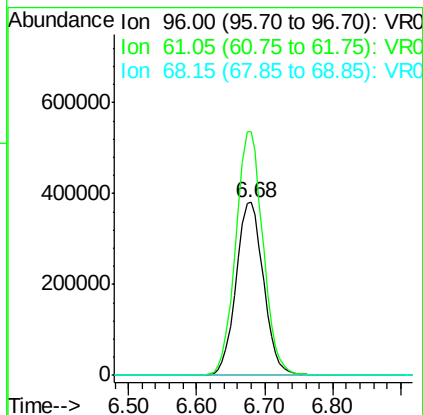
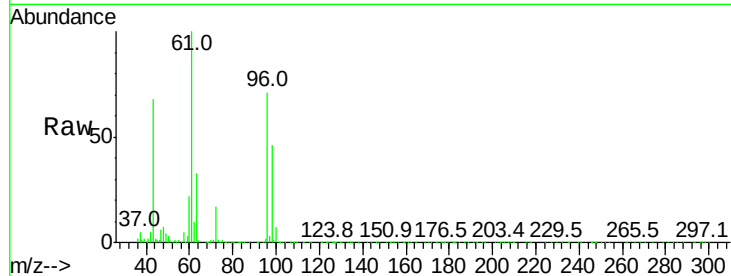


#22

cis-1,2-Dichloroethene  
Concen: 22.452 ug/L  
RT: 6.68 min Scan# 822  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02092

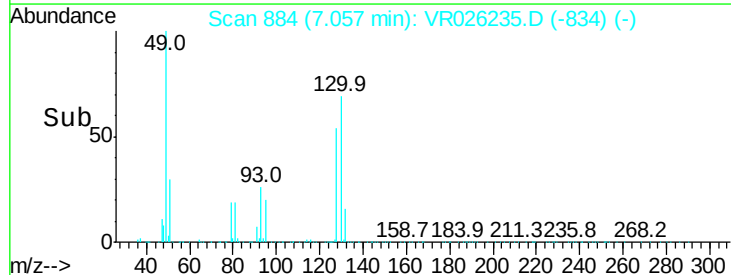
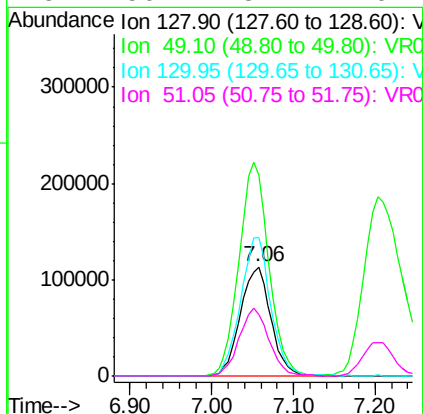
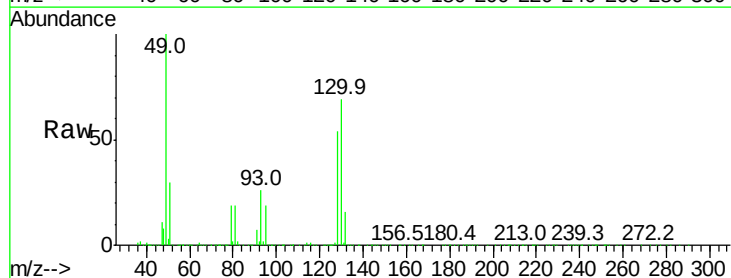
Tgt Ion: 96 Resp: 1069606  
Ion Ratio Lower Upper  
96 100  
61 140.8 94.8 176.2  
68 0.1 0.0 0.0#

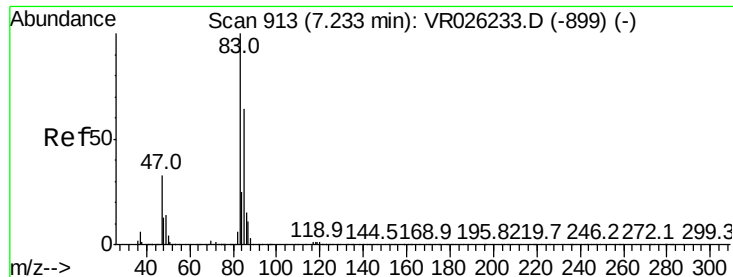


#23

Bromochloromethane  
Concen: 20.215 ug/L  
RT: 7.06 min Scan# 884  
Delta R.T. 0.01 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Tgt Ion: 128 Resp: 294048  
Ion Ratio Lower Upper  
128 100  
49 184.3 129.6 240.6  
130 127.0 93.1 172.9  
51 56.1 52.7 79.1





#25

Chloroform

Concen: 19.805 ug/L

RT: 7.23 min Scan# 913

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

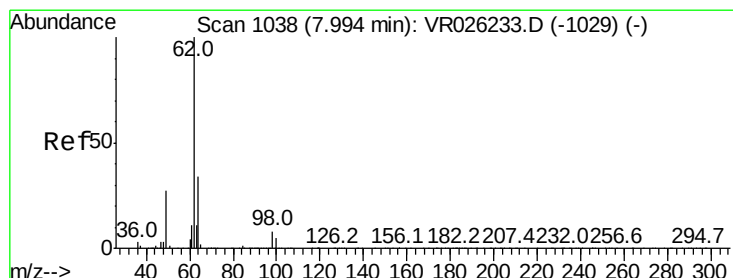
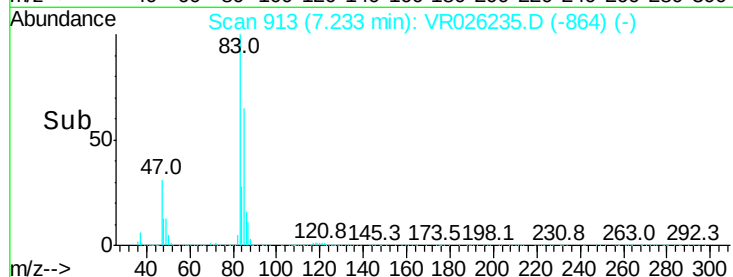
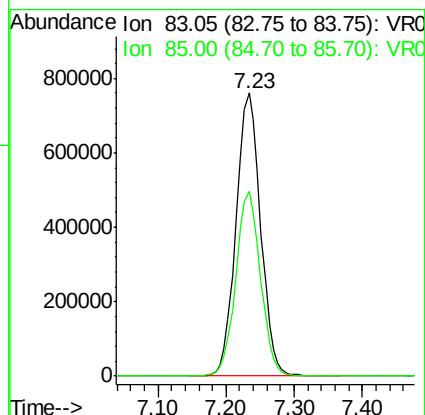
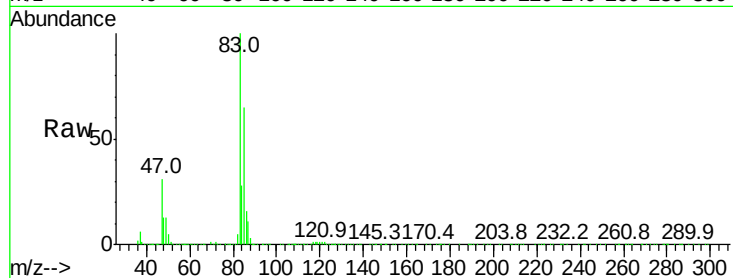
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02092

Tgt Ion: 83 Resp: 1907285

Ion Ratio Lower Upper

83 100

85 65.5 44.4 82.5



#27

1,2-Dichloroethane

Concen: 18.746 ug/L

RT: 7.99 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VR026235.D

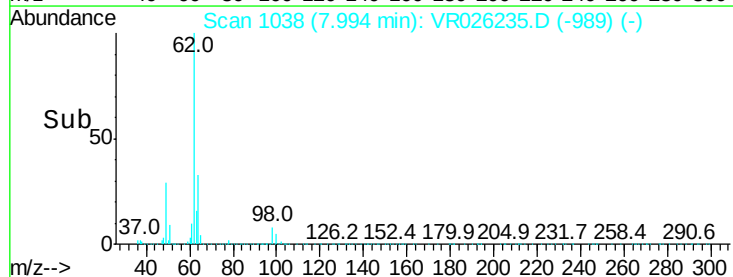
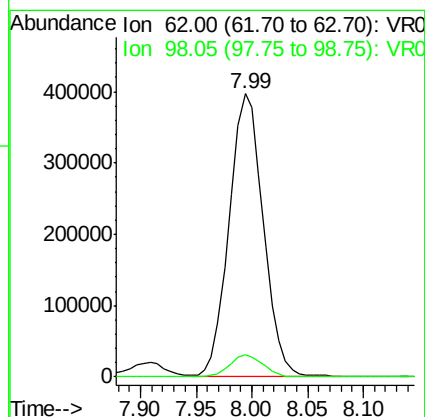
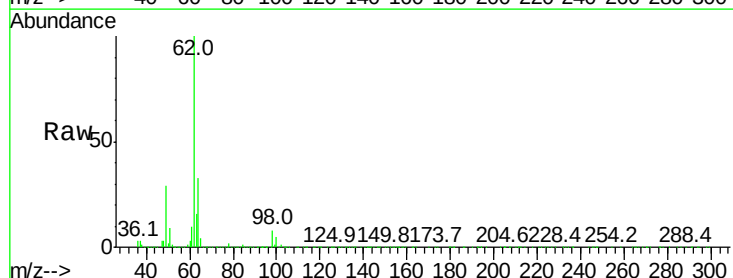
Acq: 20 Nov 2018 17:25

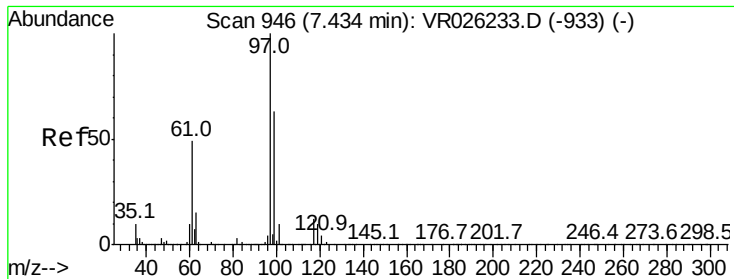
Tgt Ion: 62 Resp: 837990

Ion Ratio Lower Upper

62 100

98 7.7 6.1 9.1





#29

1,1,1-Trichloroethane

Concen: 20.510 ug/L

RT: 7.43 min Scan# 946

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02092

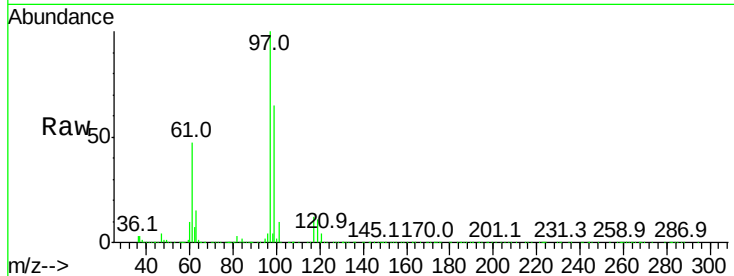
Tgt Ion: 97 Resp: 1718153

Ion Ratio Lower Upper

97 100

99 64.2 51.9 77.9

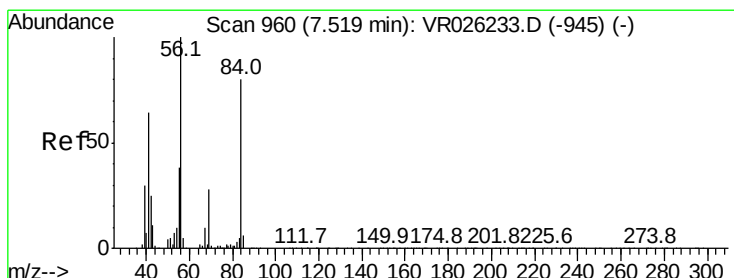
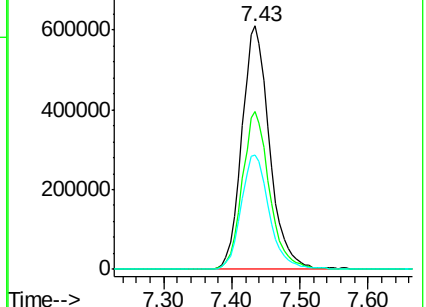
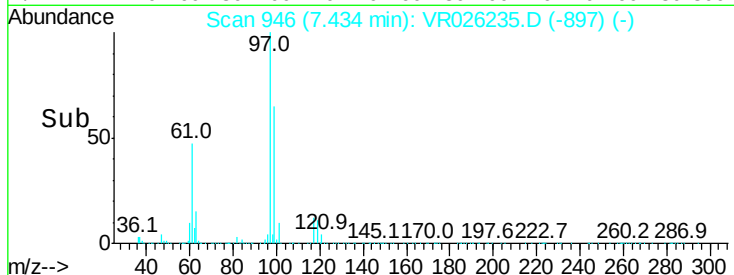
61 48.0 39.9 59.9



Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 61.05 (60.75 to 61.75): VR0



#30

Cyclohexane

Concen: 23.023 ug/L

RT: 7.52 min Scan# 960

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

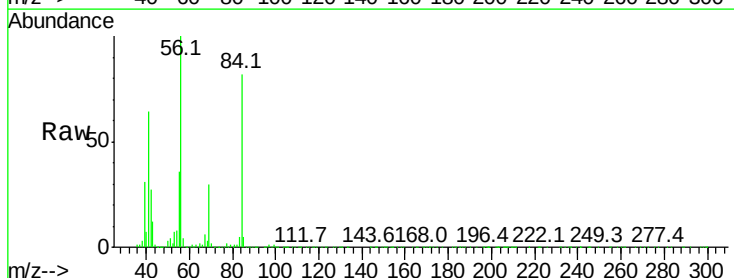
Tgt Ion: 56 Resp: 1689485

Ion Ratio Lower Upper

56 100

69 30.0 23.6 35.4

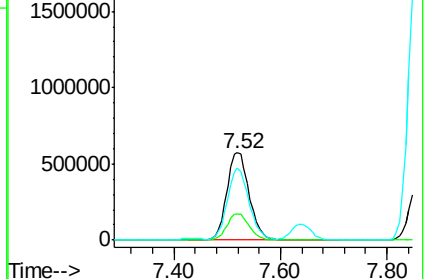
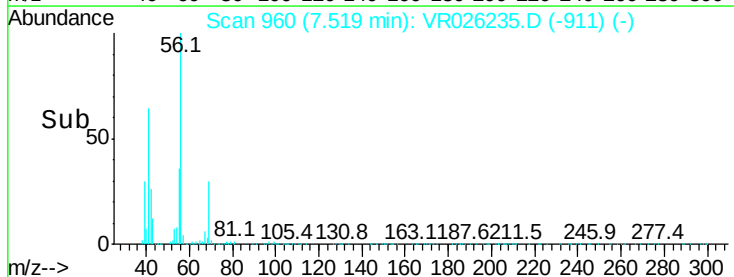
84 79.0 64.9 97.3

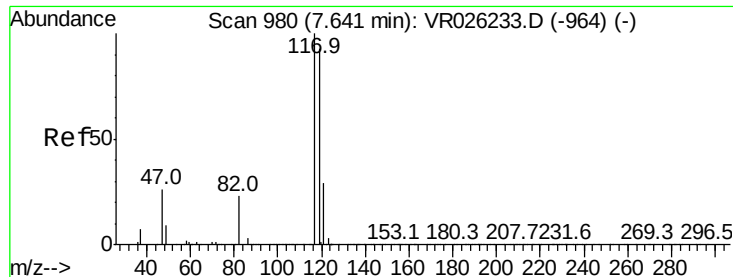


Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 20.688 ug/L

RT: 7.64 min Scan# 980

Delta R.T. -0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

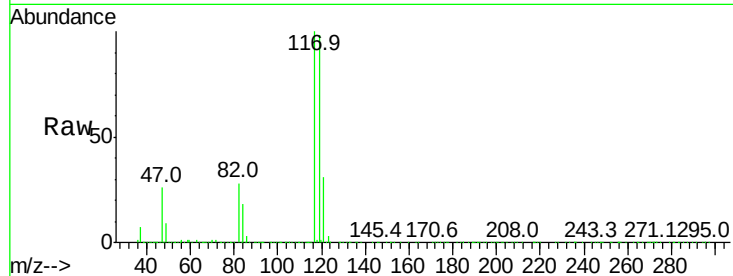
VSTD02092

Tgt Ion:117 Resp: 1538480

Ion Ratio Lower Upper

117 100

119 96.0 74.7 112.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

7.64

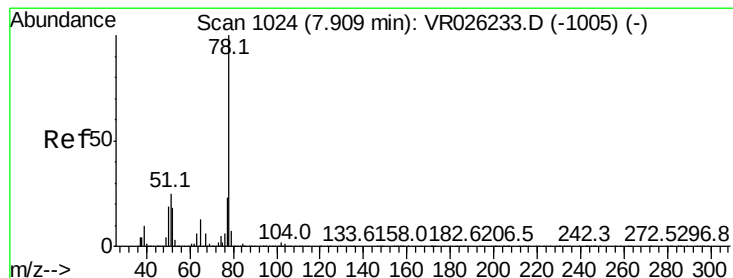
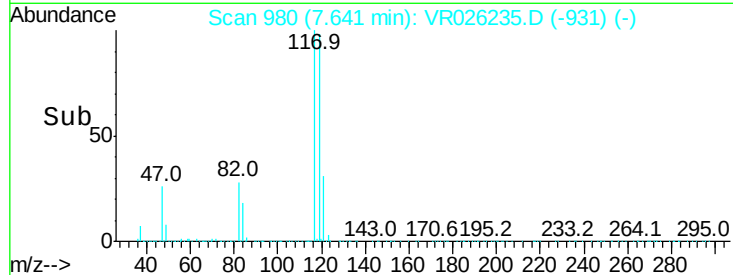
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#33

Benzene

Concen: 20.122 ug/L

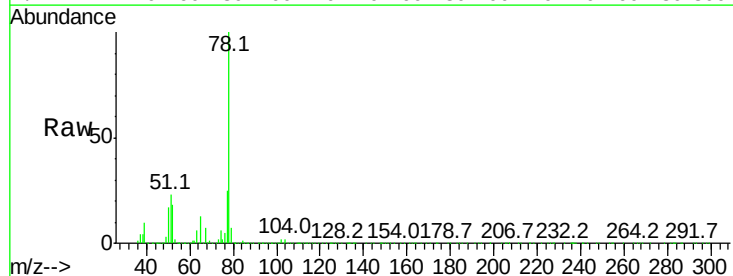
RT: 7.91 min Scan# 1024

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Tgt Ion: 78 Resp: 4544529



Abundance Ion 78.10 (77.80 to 78.80): VR0

2500000

2000000

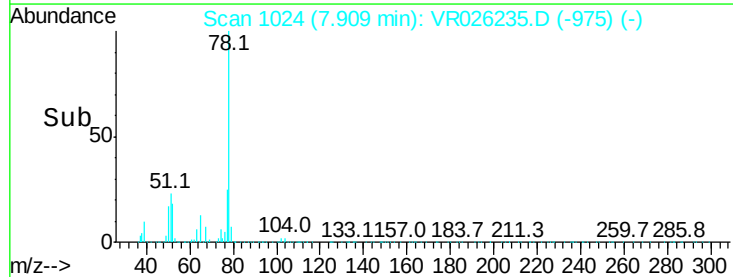
1500000

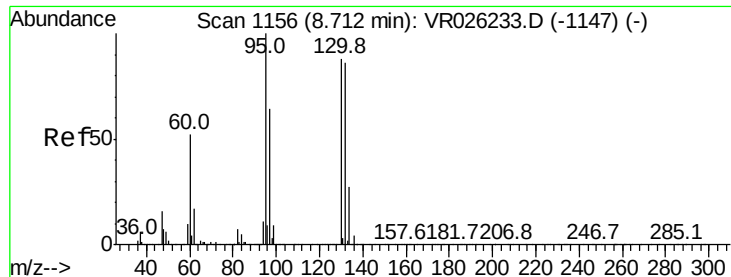
1000000

500000

0

Time--> 7.80 8.00 8.20





#34

Trichloroethene

Concen: 20.817 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02092

Tgt Ion: 95 Resp: 1197771

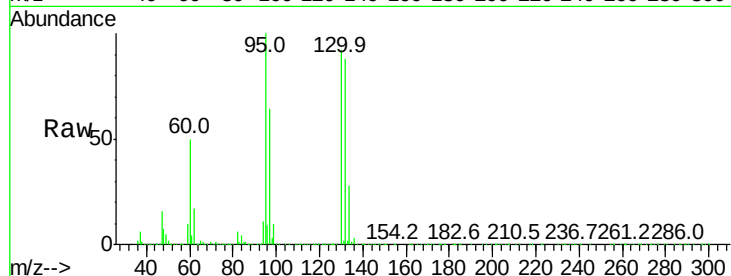
Ion Ratio Lower Upper

95 100

97 63.7 45.1 83.7

132 87.9 59.8 111.0

130 91.6 61.4 114.0

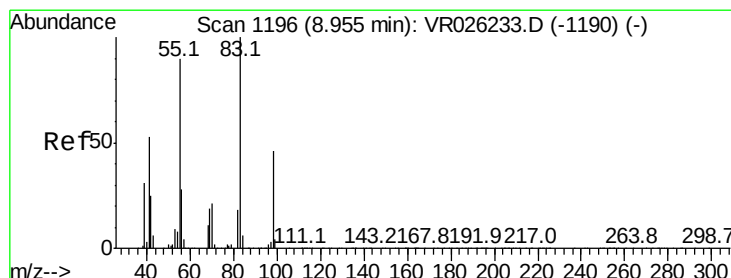
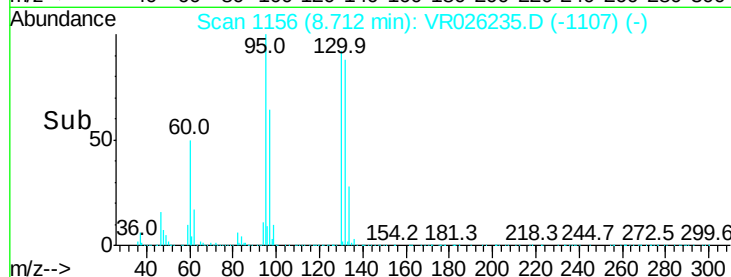
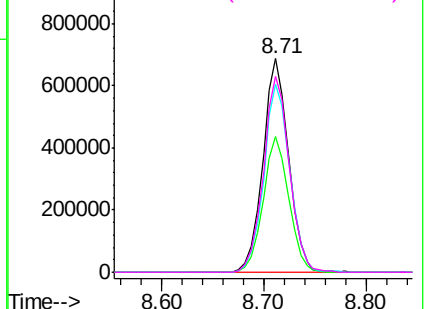


Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 23.243 ug/L

RT: 8.96 min Scan# 1197

Delta R.T. 0.01 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

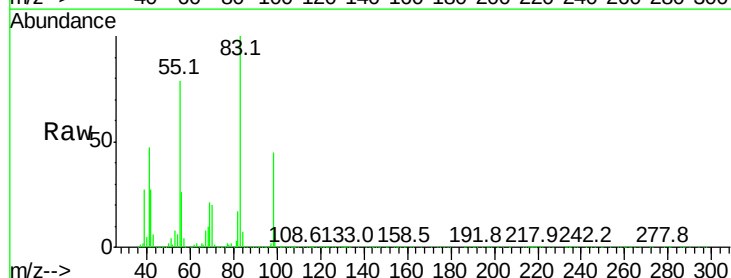
Tgt Ion: 83 Resp: 1739135

Ion Ratio Lower Upper

83 100

55 82.0 66.6 100.0

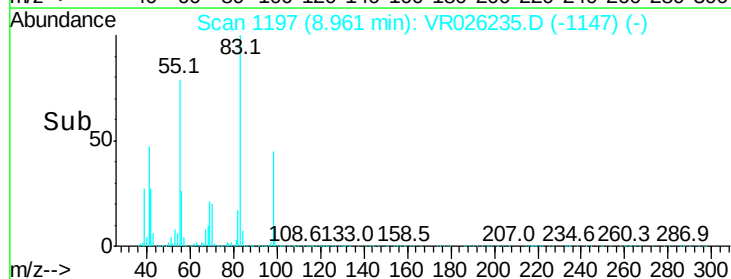
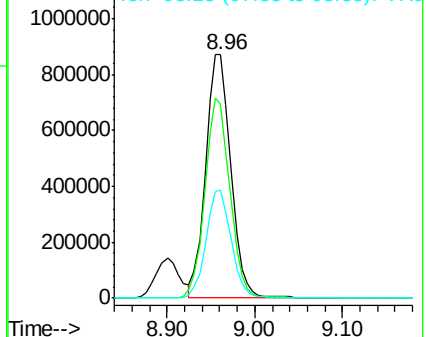
98 44.9 35.5 53.3



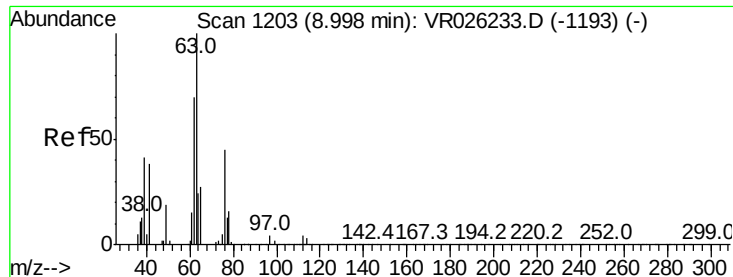
Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0







#37

1,2-Dichloropropane

Concen: 19.255 ug/L

RT: 9.00 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampled :

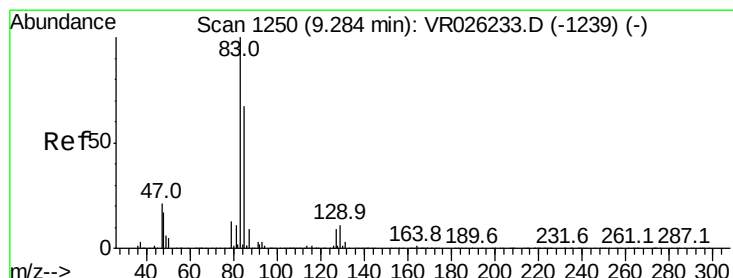
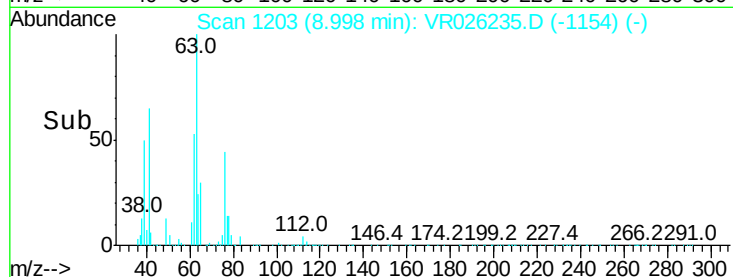
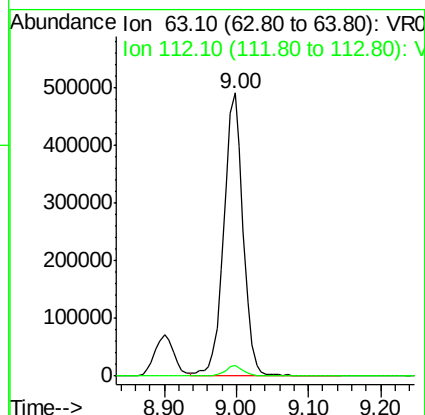
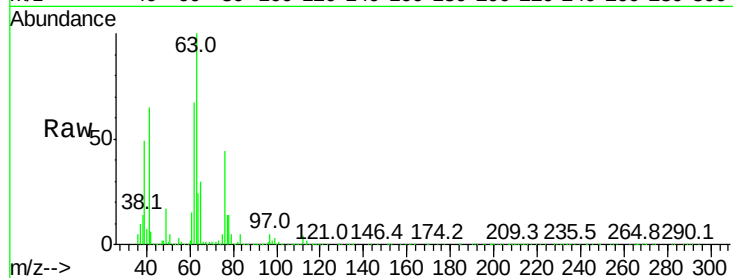
VSTD02092

Tgt Ion: 63 Resp: 912240

Ion Ratio Lower Upper

63 100

112 3.6 3.4 5.0



#38

Bromodichloromethane

Concen: 20.428 ug/L

RT: 9.28 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

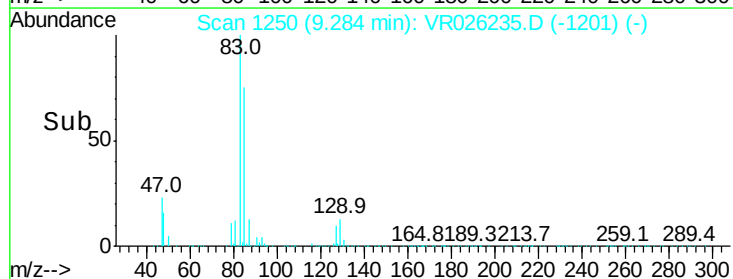
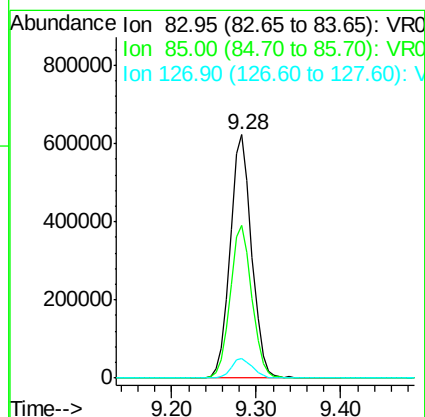
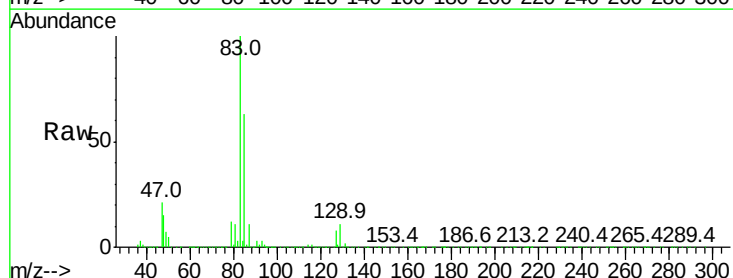
Tgt Ion: 83 Resp: 1079723

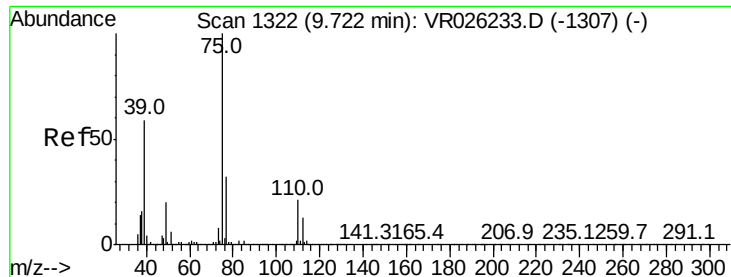
Ion Ratio Lower Upper

83 100

85 62.9 46.8 86.8

127 8.1 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 23.088 ug/L

RT: 9.72 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

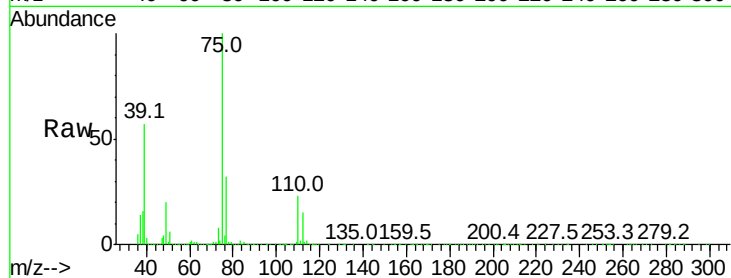
VSTD02092

Tgt Ion: 75 Resp: 1236366

Ion Ratio Lower Upper

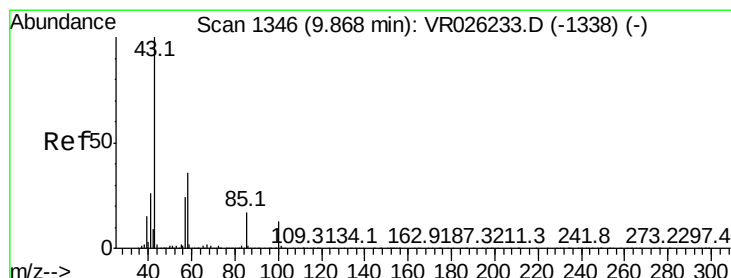
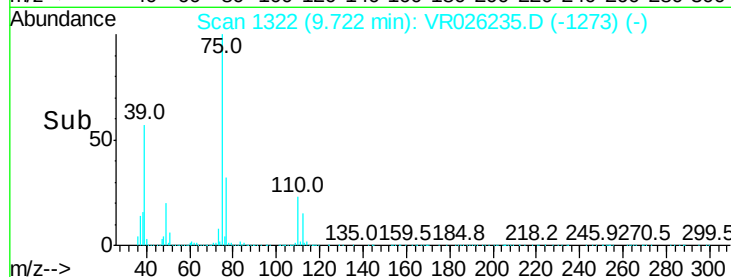
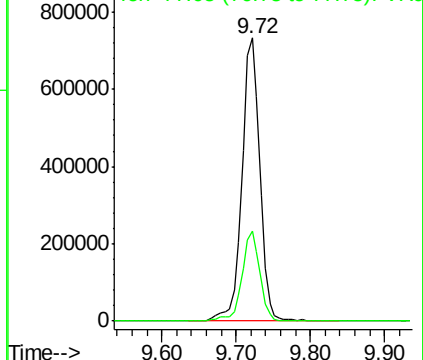
75 100

77 31.6 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VR0

Ion 77.05 (76.75 to 77.75): VR0



#40

4-Methyl-2-pentanone

Concen: 216.936 ug/L

RT: 9.87 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

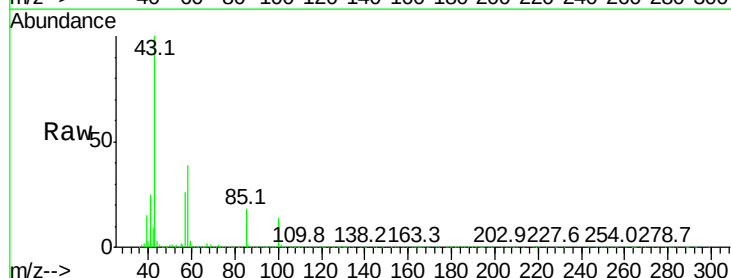
Tgt Ion: 43 Resp: 2903864

Ion Ratio Lower Upper

43 100

58 37.4 28.0 42.0

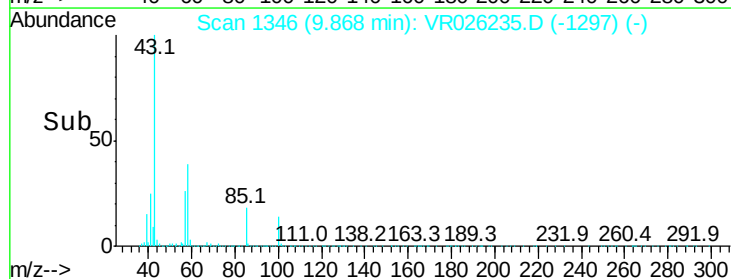
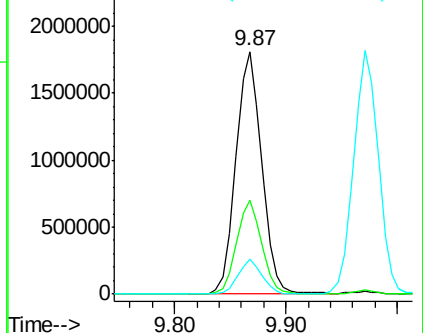
100 13.3 10.0 15.0

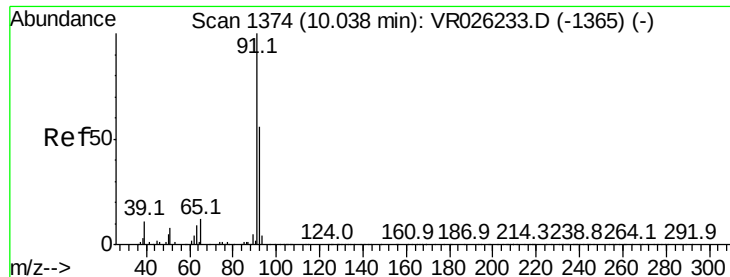


Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

Ion 100.15 (99.85 to 100.85): VR0





#42

Toluene

Concen: 20.868 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

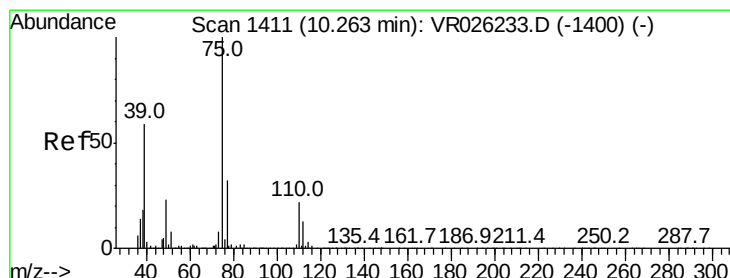
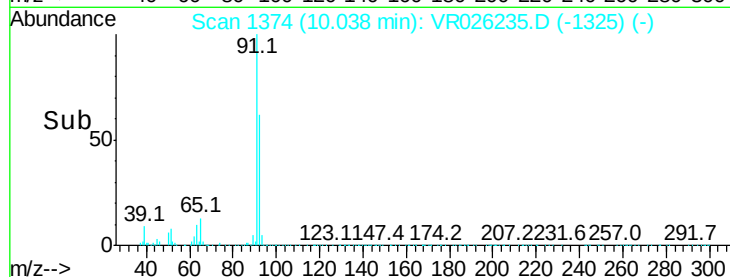
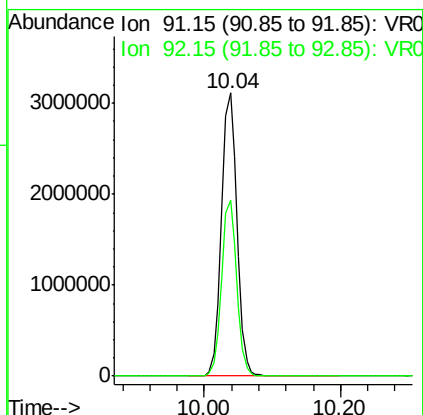
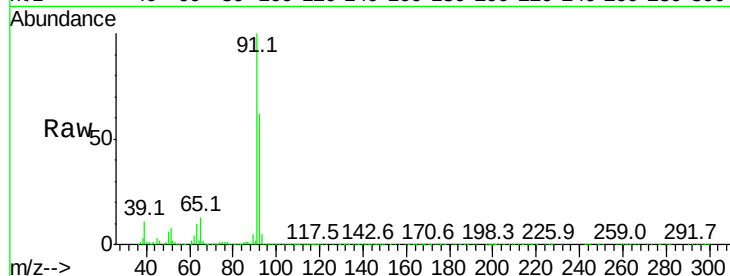
VSTD02092

Tgt Ion: 91 Resp: 4910020

Ion Ratio Lower Upper

91 100

92 62.0 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 23.653 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VR026235.D

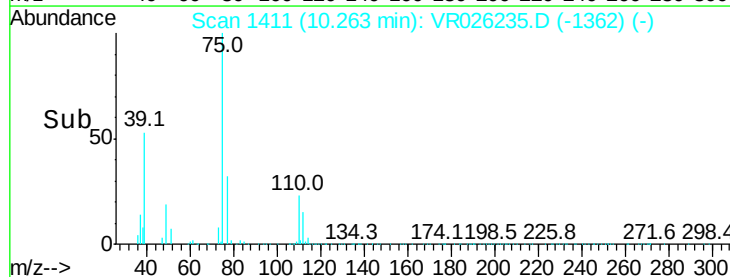
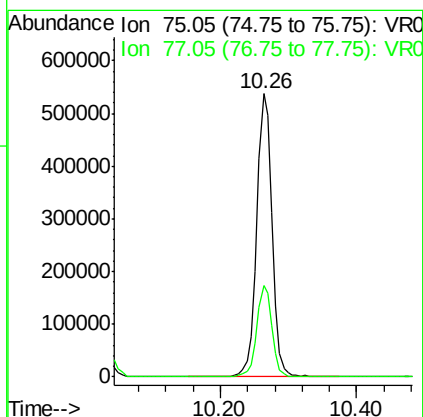
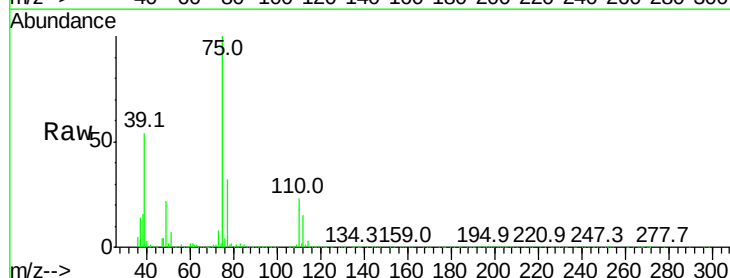
Acq: 20 Nov 2018 17:25

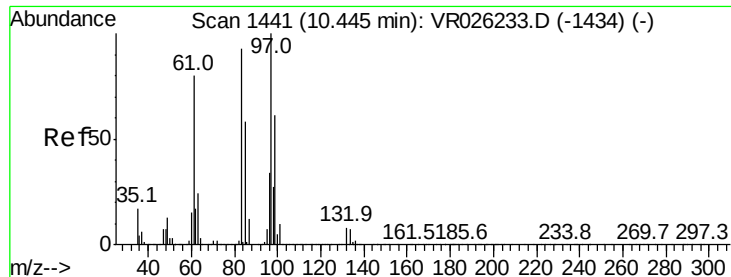
Tgt Ion: 75 Resp: 844950

Ion Ratio Lower Upper

75 100

77 32.1 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 19.602 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02092

Tgt Ion: 97 Resp: 400843

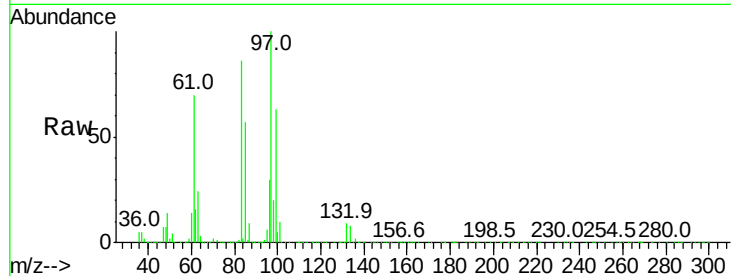
Ion Ratio Lower Upper

97 100

99 63.4 43.0 80.0

83 86.4 65.0 120.8

85 56.7 40.5 75.1

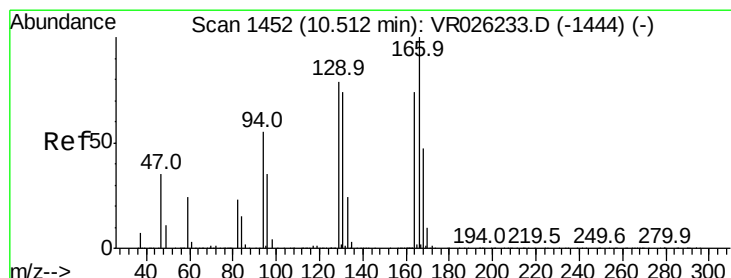
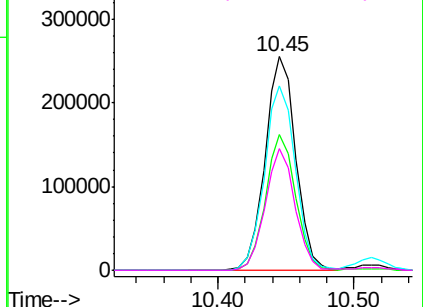
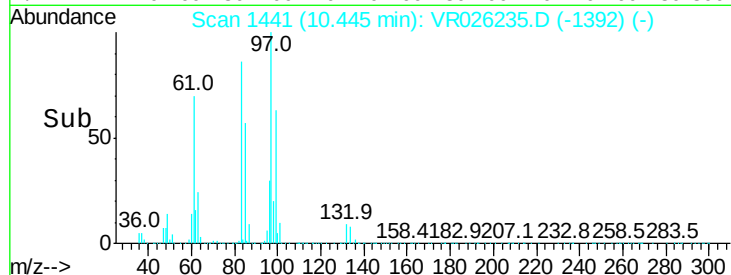


Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0



#47

Tetrachloroethene

Concen: 23.271 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Tgt Ion: 164 Resp: 914678

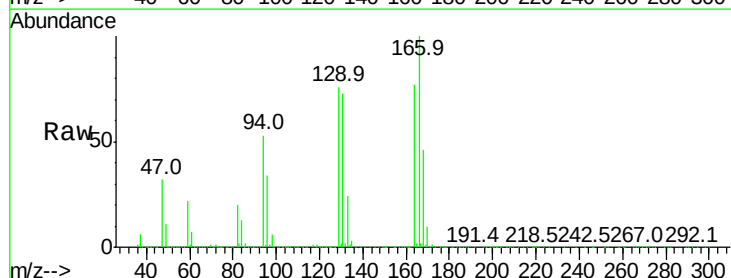
Ion Ratio Lower Upper

164 100

129 99.1 74.6 138.6

131 95.6 69.8 129.6

166 130.4 94.5 175.5

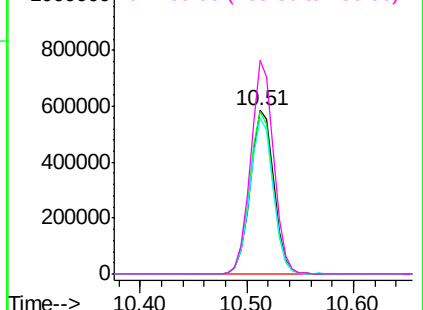
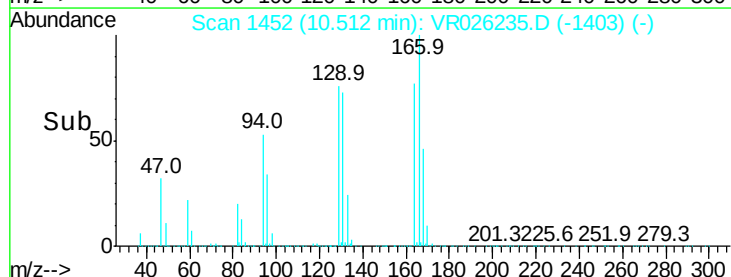


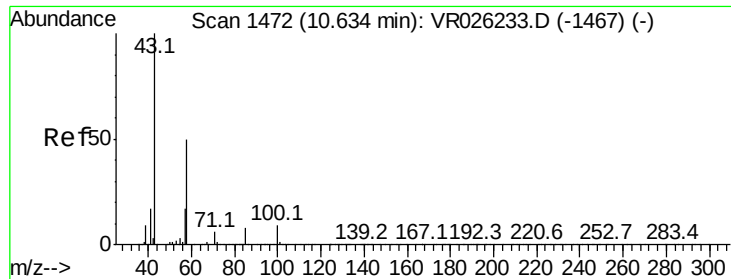
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



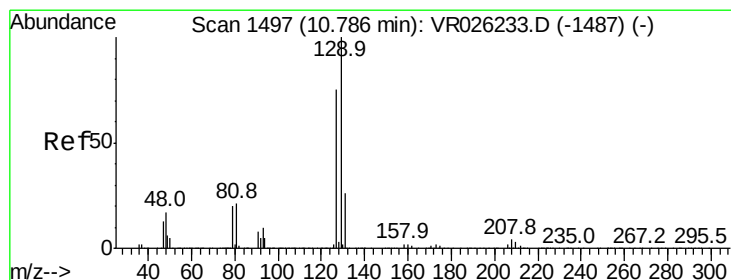
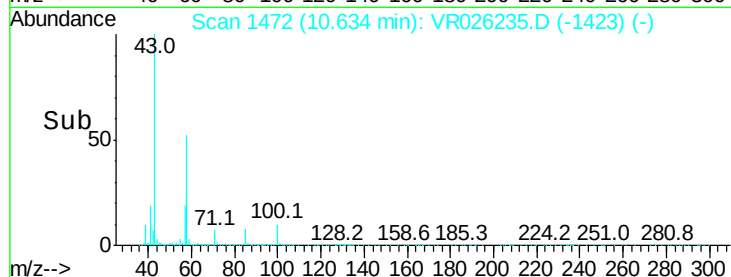
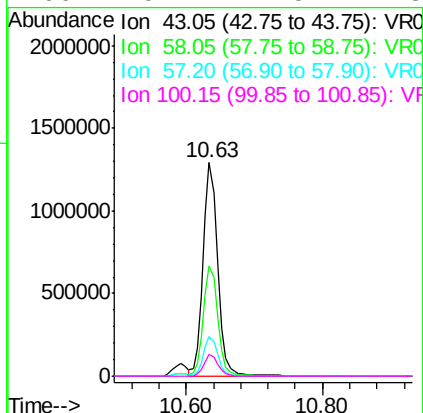
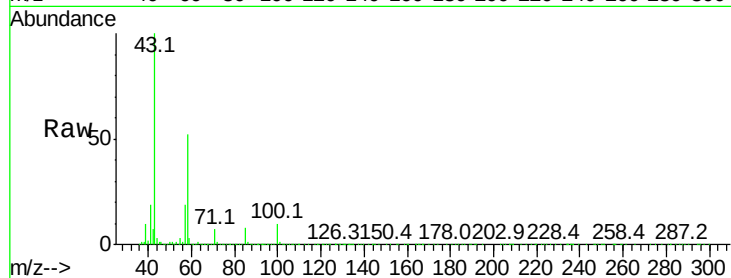


#48  
2-Hexanone  
Concen: 215.144 ug/L  
RT: 10.63 min Scan# 1472  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02092

Tgt Ion: 43 Resp: 1942092

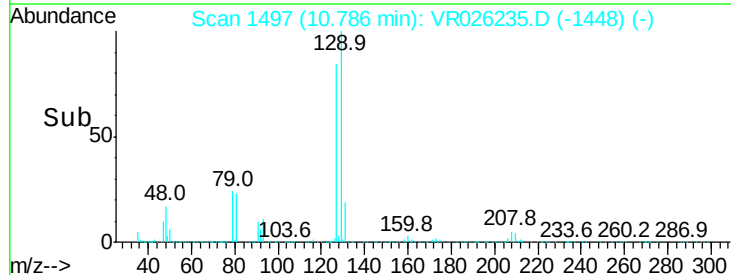
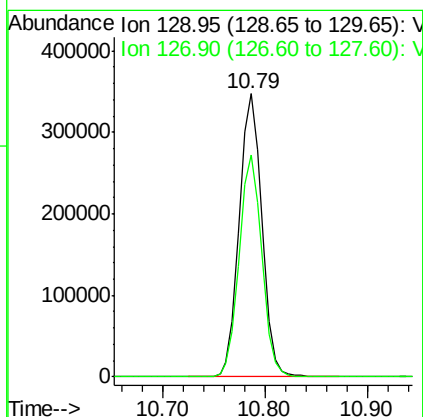
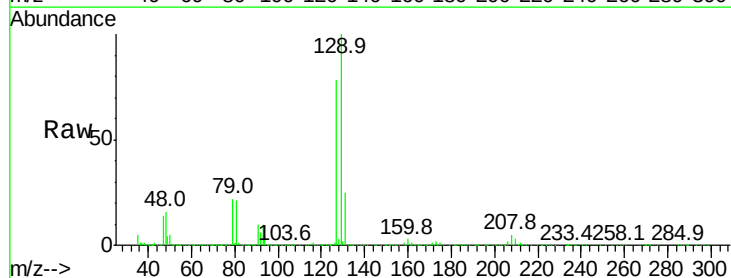
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 52.7  | 41.3  | 61.9  |
| 57  | 18.2  | 14.5  | 21.7  |
| 100 | 9.7   | 7.5   | 11.3  |

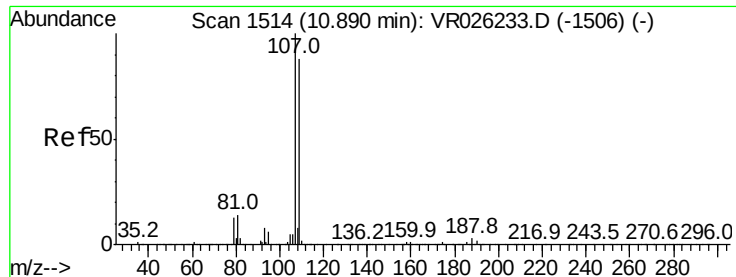


#49  
Dibromochloromethane  
Concen: 21.946 ug/L  
RT: 10.79 min Scan# 1497  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Tgt Ion: 129 Resp: 531508

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.4  | 52.8  | 98.0  |

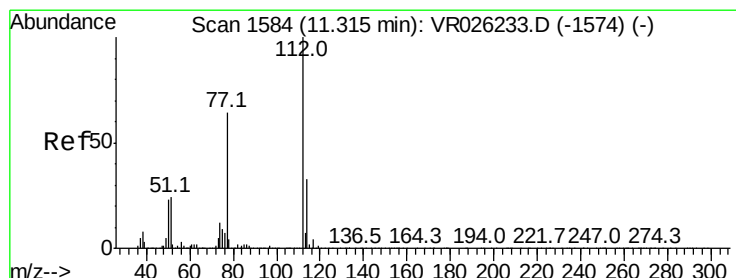
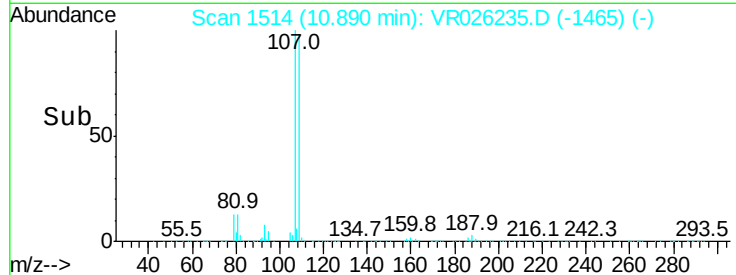
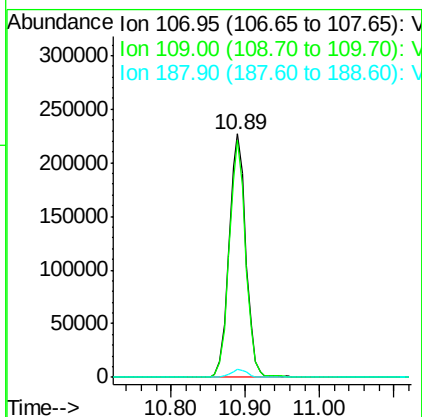
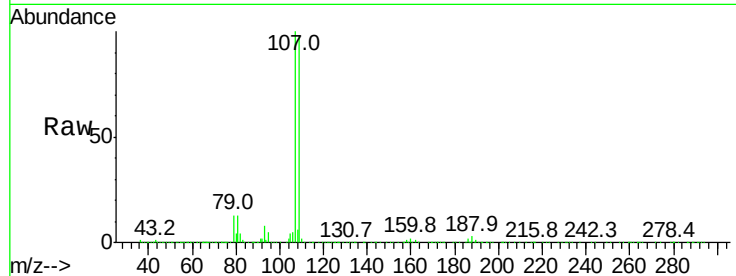




#50  
1,2-Dibromoethane  
Concen: 20.747 ug/L  
RT: 10.89 min Scan# 1514  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

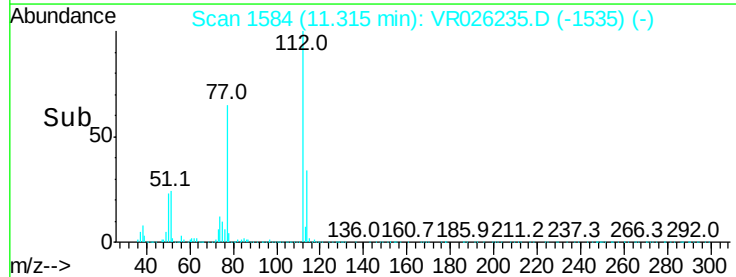
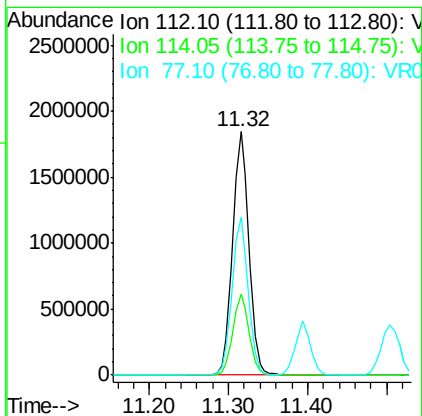
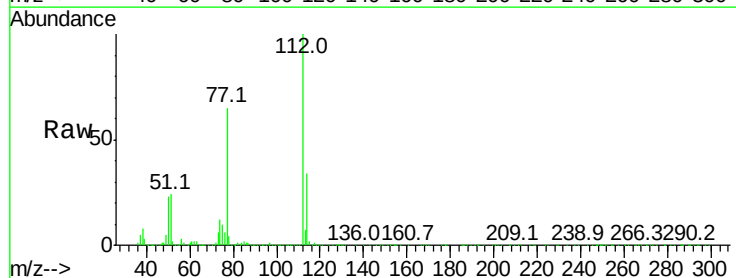
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02092

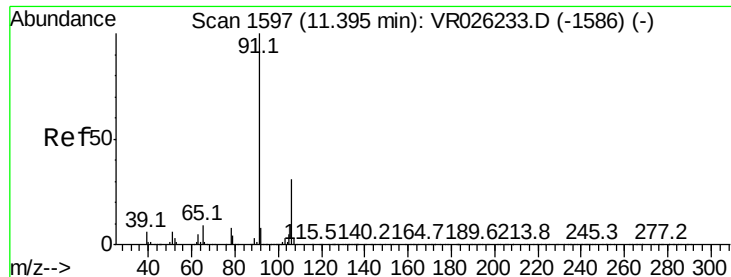
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 97.6  | 62.1  | 115.3 |
| 188     | 3.3   | 2.2   | 3.2#  |



#51  
Chlorobenzene  
Concen: 20.368 ug/L  
RT: 11.32 min Scan# 1584  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 33.5  | 23.0  | 42.6  |
| 77      | 65.0  | 51.5  | 77.3  |





#52

Ethylbenzene

Concen: 20.496 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

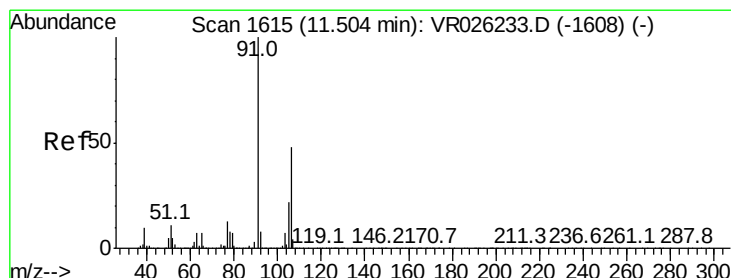
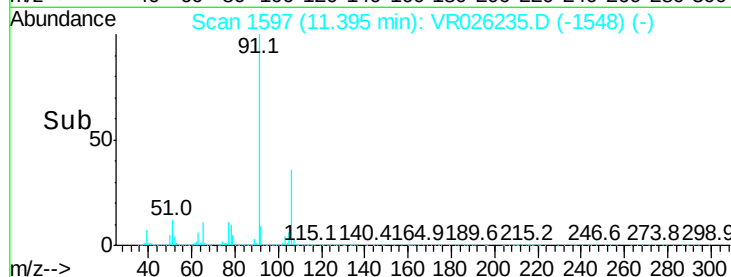
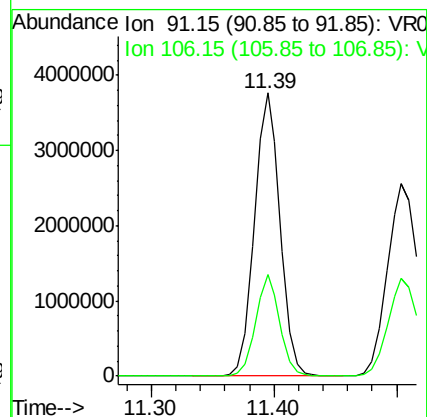
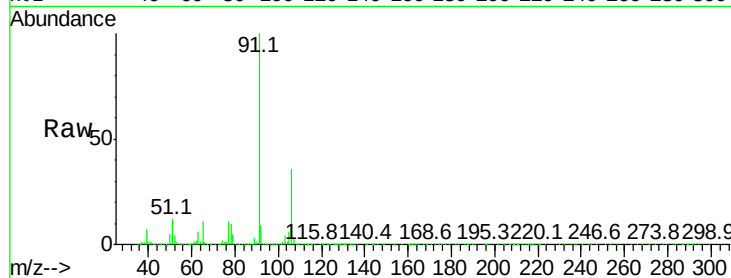
VSTD02092

Tgt Ion: 91 Resp: 5470158

Ion Ratio Lower Upper

91 100

106 36.1 21.3 39.6



#53

m,p-Xylene

Concen: 22.598 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VR026235.D

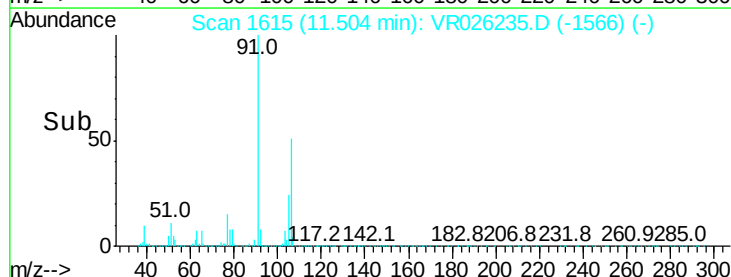
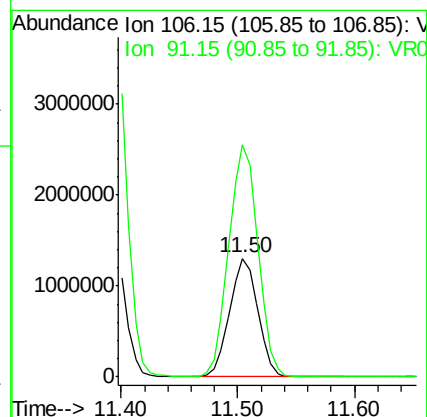
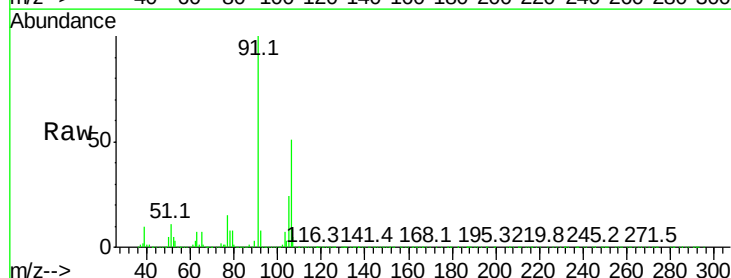
Acq: 20 Nov 2018 17:25

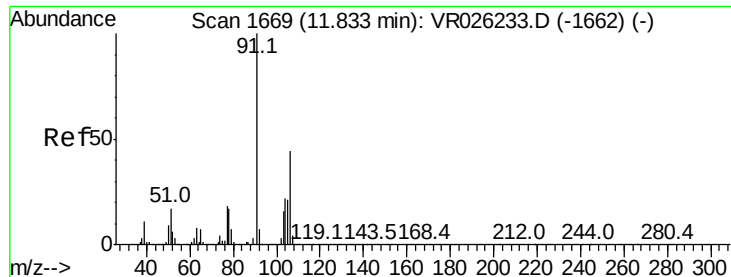
Tgt Ion: 106 Resp: 2189198

Ion Ratio Lower Upper

106 100

91 196.7 147.2 273.4





#54

o-Xylene

Concen: 23.990 ug/L

RT: 11.83 min Scan# 1669

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

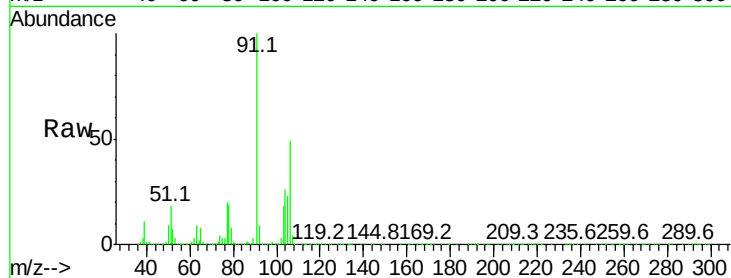
VSTD02092

Tgt Ion:106 Resp: 2120834

Ion Ratio Lower Upper

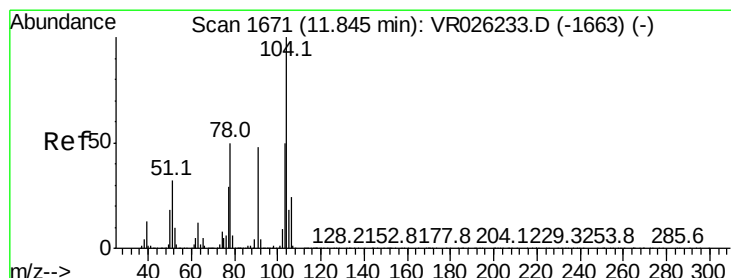
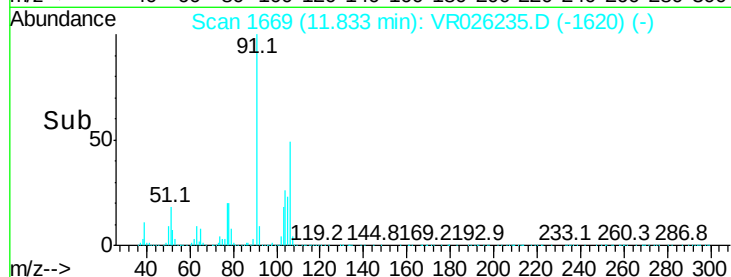
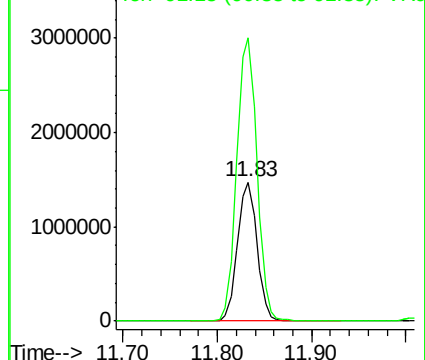
106 100

91 203.8 159.0 295.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#55

Styrene

Concen: 23.353 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VR026235.D

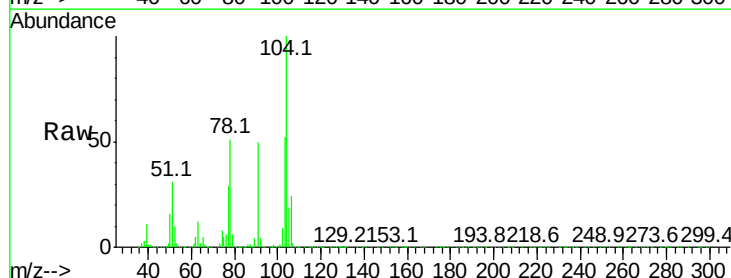
Acq: 20 Nov 2018 17:25

Tgt Ion:104 Resp: 3209169

Ion Ratio Lower Upper

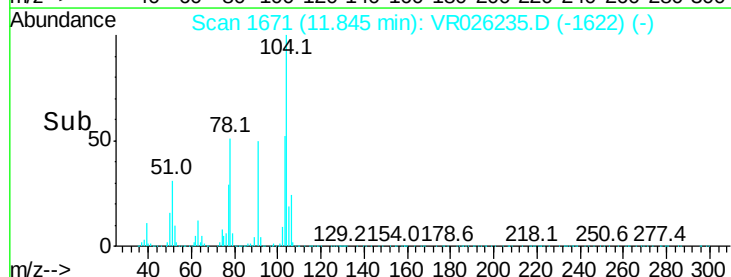
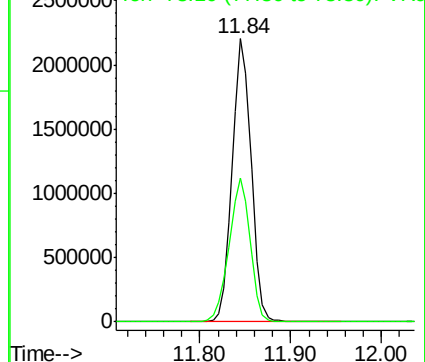
104 100

78 50.7 35.4 65.7

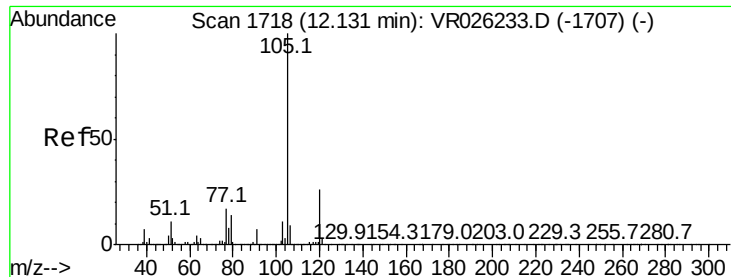


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0







#56

Isopropylbenzene

Concen: 22.390 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02092

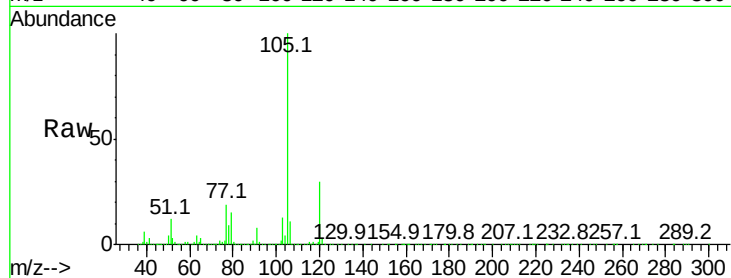
Tgt Ion: 105 Resp: 5345468

Ion Ratio Lower Upper

105 100

120 28.8 20.9 31.3

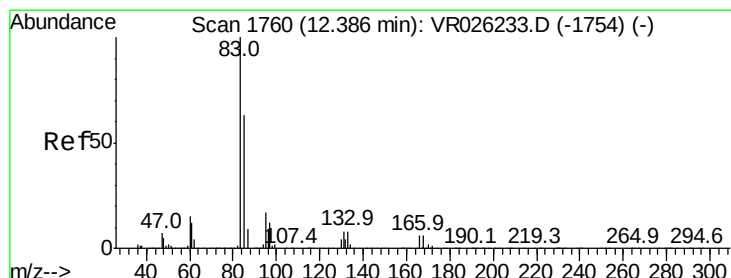
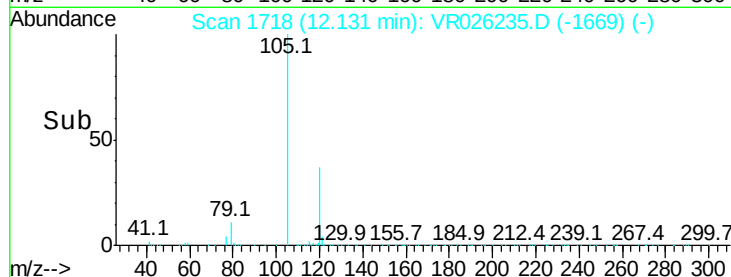
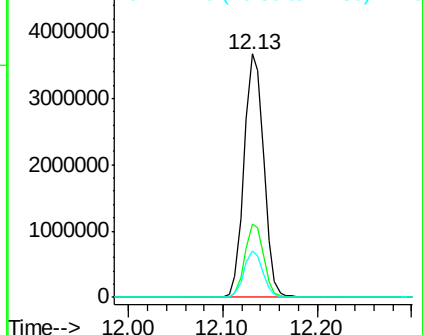
77 18.3 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 19.277 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

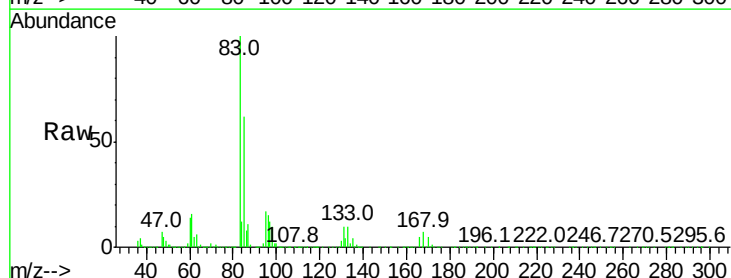
Tgt Ion: 83 Resp: 380769

Ion Ratio Lower Upper

83 100

85 62.4 44.5 82.7

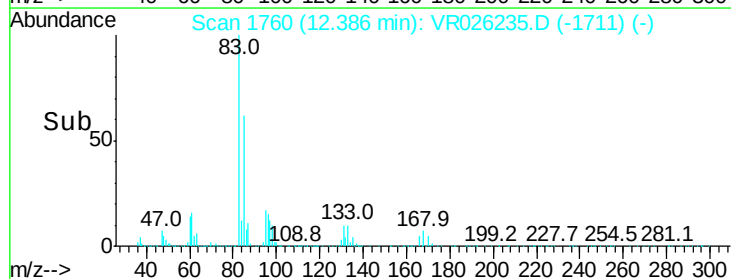
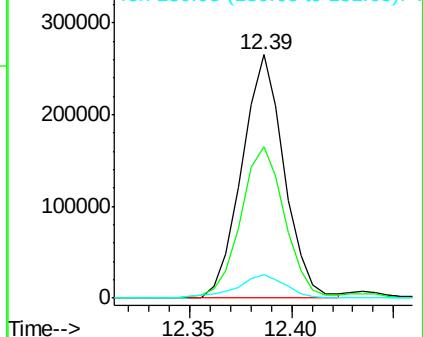
131 9.6 7.1 10.7

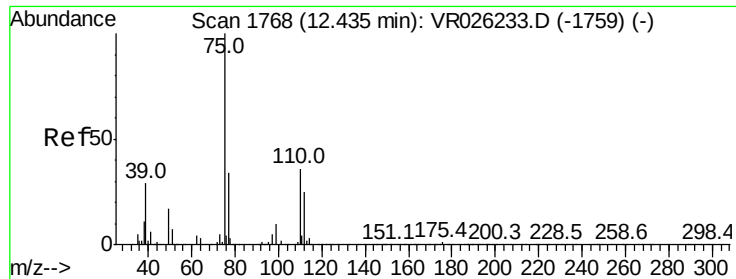


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 18.853 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

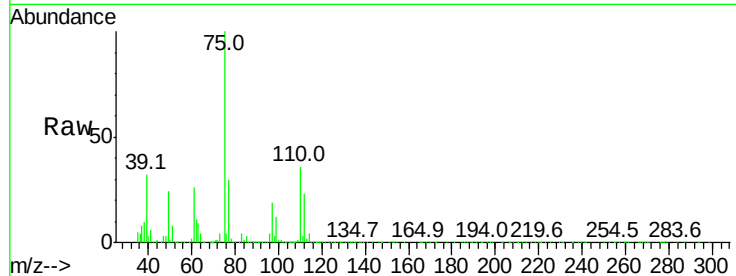
VSTD02092

Tgt Ion: 75 Resp: 280407

Ion Ratio Lower Upper

75 100

77 30.8 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VR0

Ion 77.00 (76.70 to 77.70): VR0

12.43

200000

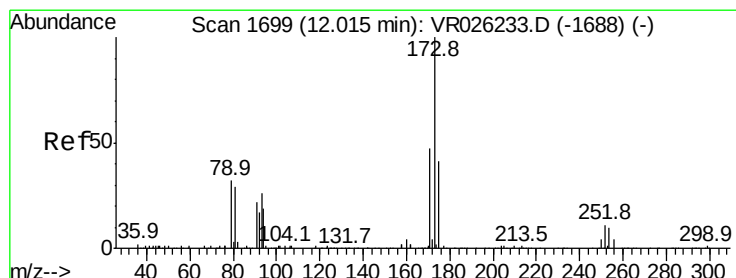
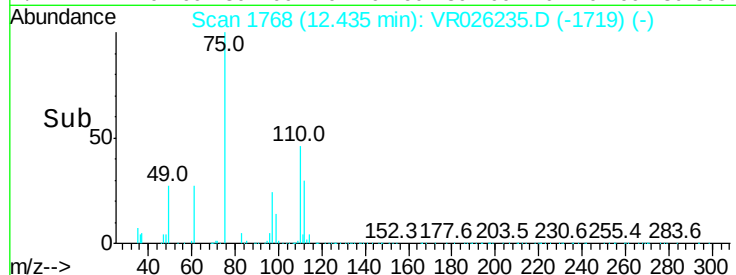
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 20.493 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. -0.01 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

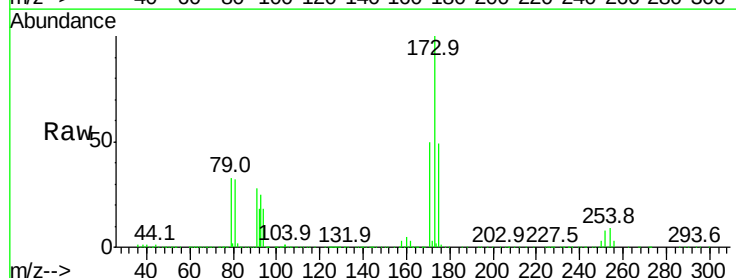
Tgt Ion: 173 Resp: 215880

Ion Ratio Lower Upper

173 100

175 48.3 37.8 56.8

254 9.2 7.5 11.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V

12.01

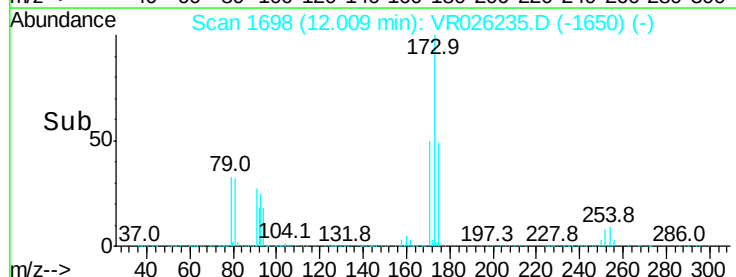
150000

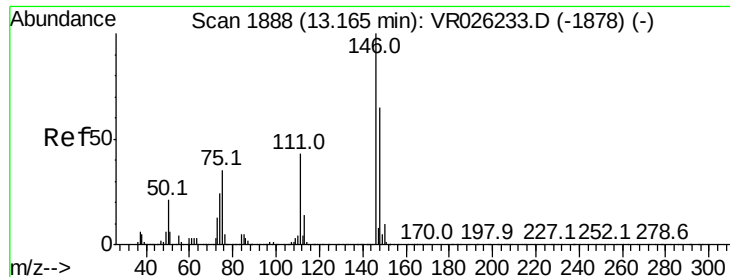
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 22.023 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. -0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02092

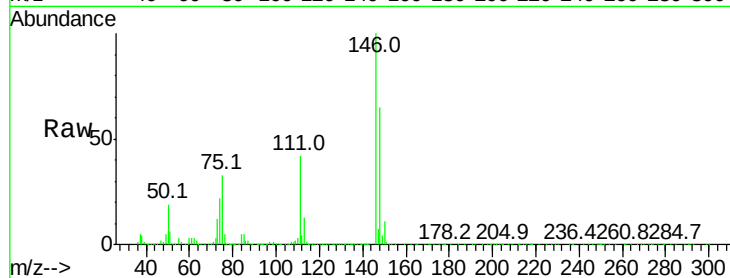
Tgt Ion:146 Resp: 1776159

Ion Ratio Lower Upper

146 100

111 42.3 29.9 55.5

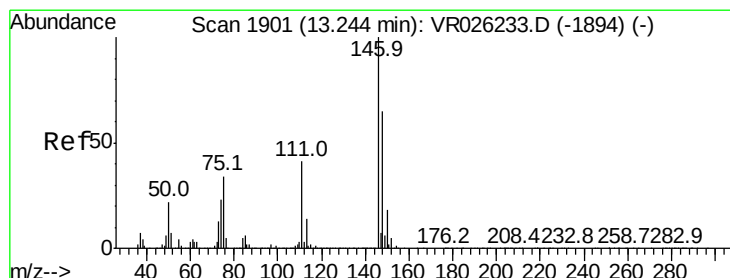
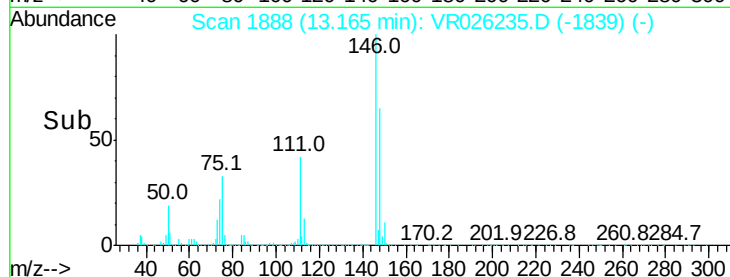
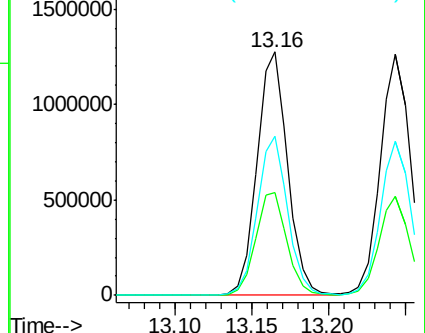
148 65.1 45.6 84.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 19.827 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

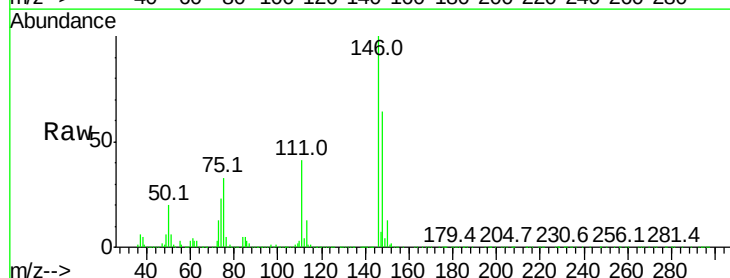
Tgt Ion:146 Resp: 1758602

Ion Ratio Lower Upper

146 100

111 41.1 29.0 53.9

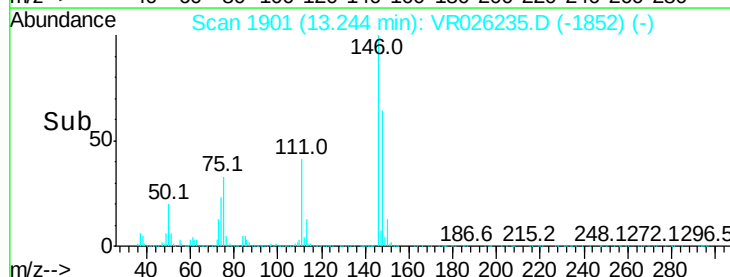
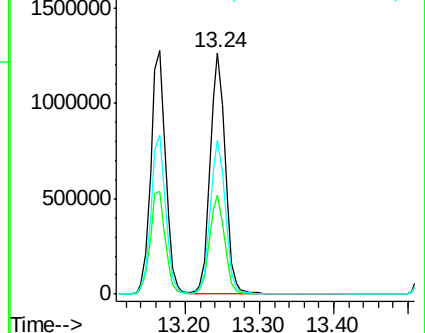
148 64.0 45.6 84.8

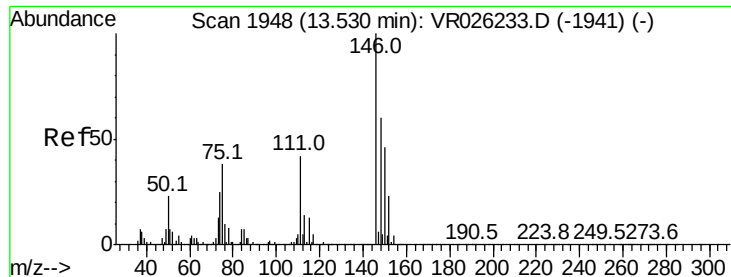


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

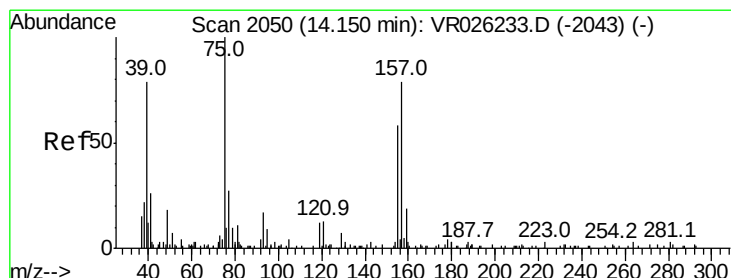
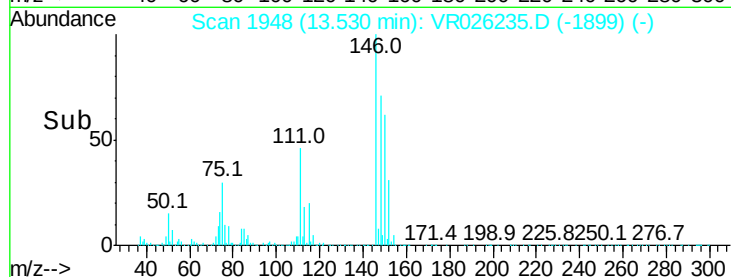
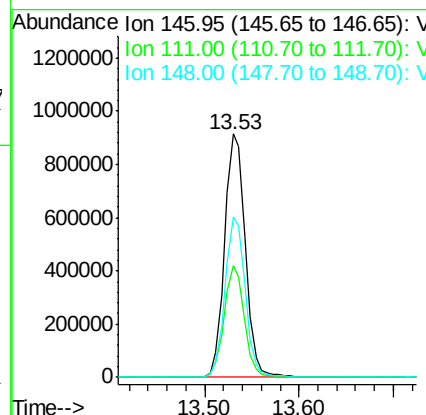
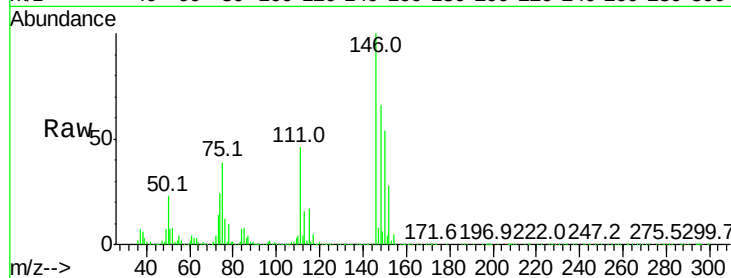




#65  
1,2-Dichlorobenzene  
Concen: 20.529 ug/L  
RT: 13.53 min Scan# 1948  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

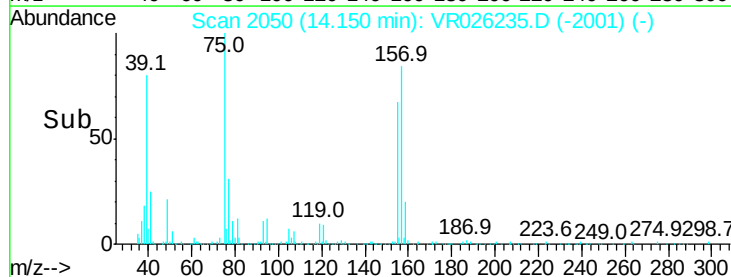
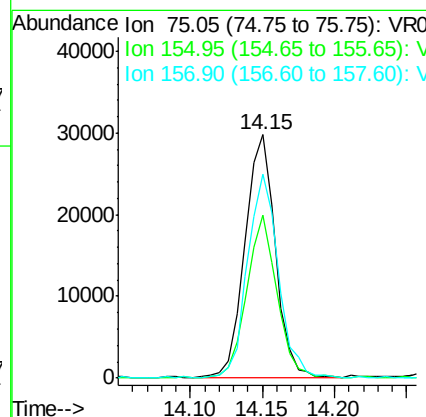
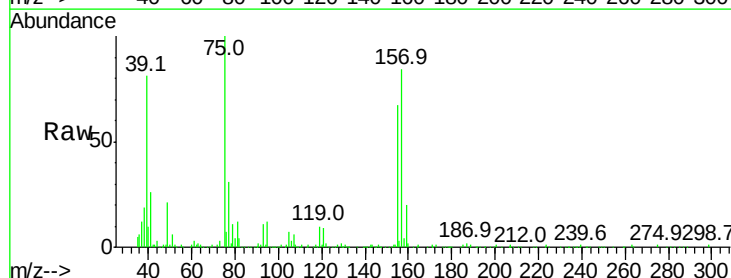
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02092

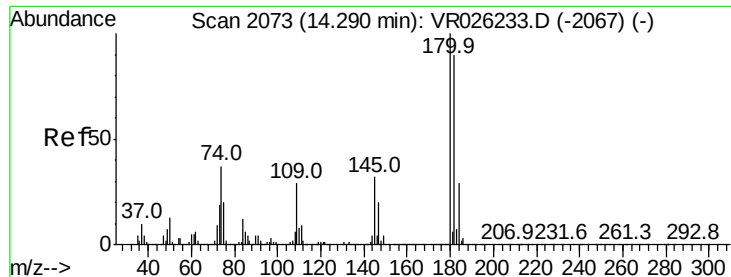
Tgt Ion:146 Resp: 1389352  
Ion Ratio Lower Upper  
146 100  
111 45.7 33.7 50.5  
148 65.9 48.2 72.4



#66  
1,2-Dibromo-3-chloropropane  
Concen: 17.402 ug/L  
RT: 14.15 min Scan# 2050  
Delta R.T. 0.00 min  
Lab File: VR026235.D  
Acq: 20 Nov 2018 17:25

Tgt Ion: 75 Resp: 43689  
Ion Ratio Lower Upper  
75 100  
155 66.8 46.0 69.0  
157 83.9 65.5 98.3

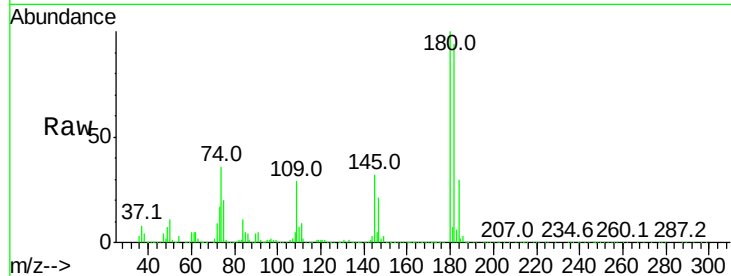




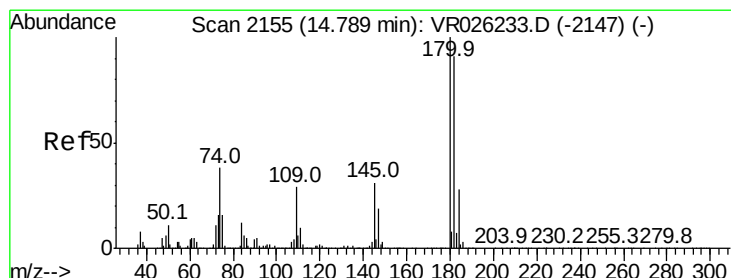
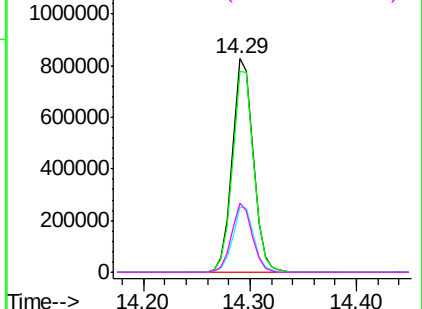
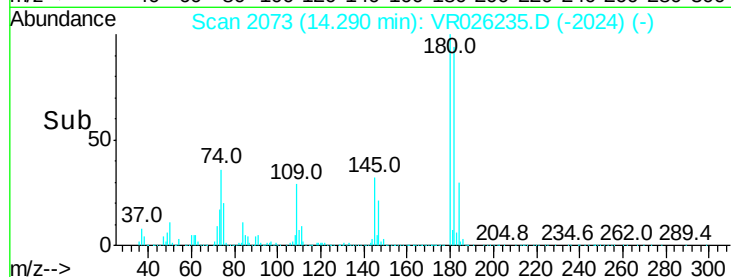
#67  
 1,3,5-Trichlorobenzene  
 Concen: 22.893 ug/L  
 RT: 14.29 min Scan# 2073  
 Delta R.T. 0.00 min  
 Lab File: VR026235.D  
 Acq: 20 Nov 2018 17:25

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD02092

Tgt Ion:180 Resp: 1150056  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 76.5 114.7  
 184 30.7 24.7 37.1  
 145 31.6 26.2 39.4

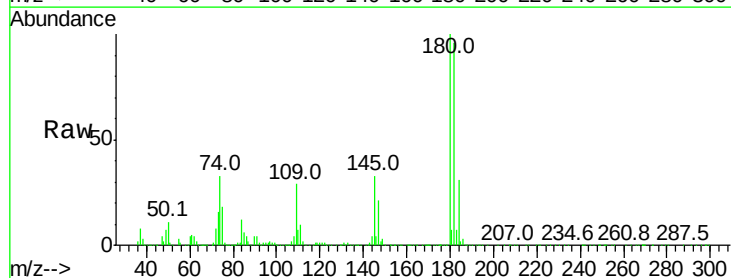


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

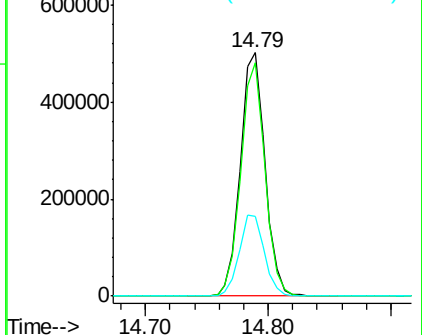
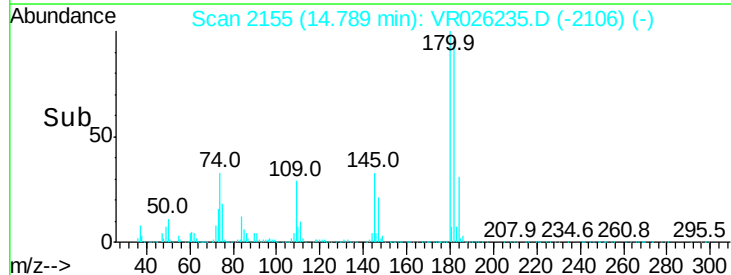


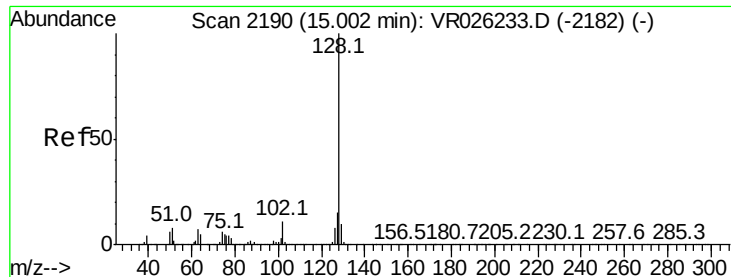
#68  
 1,2,4-trichlorobenzene  
 Concen: 24.819 ug/L  
 RT: 14.79 min Scan# 2155  
 Delta R.T. 0.00 min  
 Lab File: VR026235.D  
 Acq: 20 Nov 2018 17:25

Tgt Ion:180 Resp: 695987  
 Ion Ratio Lower Upper  
 180 100  
 182 94.5 76.2 114.4  
 145 33.8 26.2 39.4



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 26.493 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02092

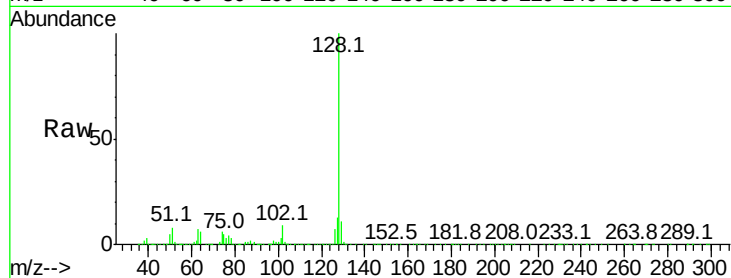
Tgt Ion:128 Resp: 783837

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

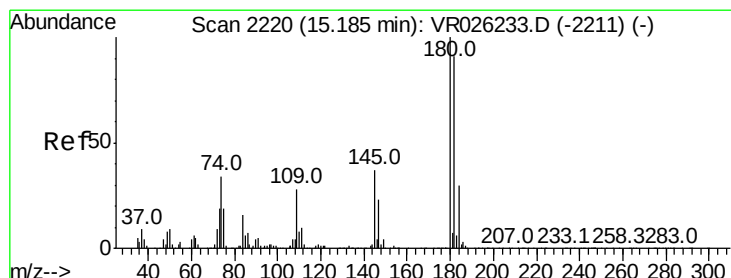
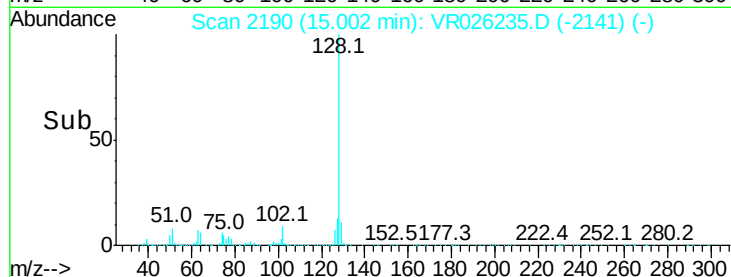
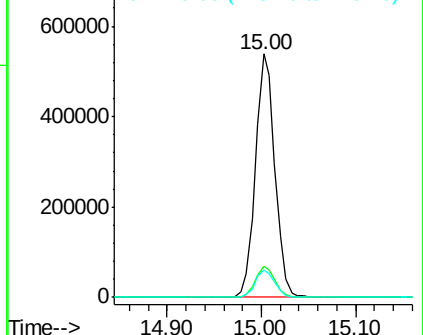
129 11.0 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 23.692 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. -0.01 min

Lab File: VR026235.D

Acq: 20 Nov 2018 17:25

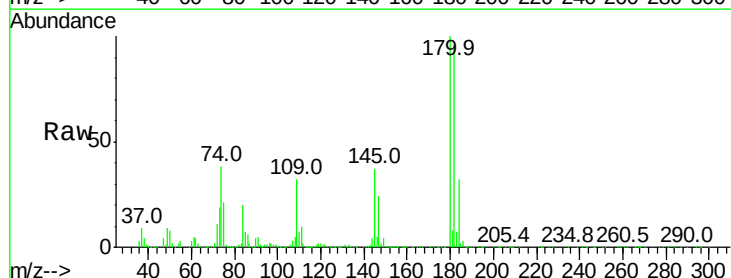
Tgt Ion:180 Resp: 464989

Ion Ratio Lower Upper

180 100

182 96.0 74.4 111.6

145 35.9 29.0 43.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

