

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092019\  
 Data File : VX012587.D  
 Acq On : 21 Sep 2019 03:39  
 Operator : JC/SP  
 Sample : K4978-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z2-0161

Quant Time: Sep 21 04:04:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 15:27:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 178090   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 280690   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 244757   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 100992   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 120104   | 47.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.12%  |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 86034    | 50.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.28% |      |
| 50) Toluene-d8            | 8.71   | 98  | 329873   | 52.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.92% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 119881   | 45.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.82%  |      |

## Target Compounds

|                            |       |     |          |           |        | Qvalue |
|----------------------------|-------|-----|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane | 1.09  | 85  | 20       | 0.408     | ug/l # | 43     |
| 3) Chloromethane           | 1.31  | 50  | 2294     | 2.343     | ug/l # | 43     |
| 5) Bromomethane            | 1.66  | 94  | 318      | 0.765     | ug/l # | 42     |
| 6) Chloroethane            | 1.61  | 64  | 2133     | 2.576     | ug/l # | 45     |
| 10) Methyl Iodide          | 2.51  | 142 | 185      | 4.582     | ug/l # | 89     |
| 11) Tert butyl alcohol     | 3.03  | 59  | 13034    | 14.608    | ug/l   | 96     |
| 13) Acrolein               | 2.29  | 56  | 156      | Below Cal | #      | 15     |
| 14) Allyl chloride         | 2.84  | 41  | 177117   | 67.946    | ug/l # | 68     |
| 15) Acrylonitrile          | 3.17  | 53  | 1761     | 1.592     | ug/l # | 34     |
| 16) Acetone                | 2.43  | 43  | 4554     | Below Cal | #      | 87     |
| 17) Carbon Disulfide       | 2.57  | 76  | 1236     | 2.559     | ug/l # | 82     |
| 18) Methyl Acetate         | 2.84  | 43  | 424742   | 159.697   | ug/l # | 54     |
| 20) Methylene Chloride     | 2.83  | 84  | 1968     | 1.274     | ug/l # | 1      |
| 25) 2-Butanone             | 4.54  | 43  | 6069     | 3.428     | ug/l # | 51     |
| 29) Tetrahydrofuran        | 5.11  | 42  | 216      | 0.221     | ug/l # | 34     |
| 31) Cyclohexane            | 5.57  | 56  | 29451    | 16.706    | ug/l   | 100    |
| 36) 1,1-Dichloropropene    | 5.65  | 75  | 15172    | 8.894     | ug/l # | 52     |
| 38) Carbon Tetrachloride   | 5.65  | 117 | 19152    | 9.027     | ug/l # | 18     |
| 39) Methylcyclohexane      | 7.45  | 83  | 14798    | 8.923     | ug/l   | 93     |
| 40) Benzene                | 6.14  | 78  | 13458390 | 2480.955  | ug/l   | 98     |
| 42) 1,2-Dichloroethane     | 6.15  | 62  | 131164   | 52.131    | ug/l # | 75     |
| 43) Isopropyl Acetate      | 6.33  | 43  | 6683     | 1.422     | ug/l # | 62     |
| 48) Methyl methacrylate    | 7.78  | 41  | 1561     | 0.705     | ug/l # | 79     |
| 49) 1,4-Dioxane            | 7.76  | 88  | 19       | 0.352     | ug/l # | 22     |
| 51) 4-Methyl-2-Pentanone   | 8.64  | 43  | 7436     | 2.413     | ug/l   | 88     |
| 52) Toluene                | 8.78  | 92  | 175221   | 50.127    | ug/l   | 99     |
| 55) 1,1,2-Trichloroethane  | 9.16  | 97  | 1243     | 0.690     | ug/l # | 22     |
| 56) Ethyl methacrylate     | 9.16  | 69  | 1175     | 0.417     | ug/l   | 91     |
| 59) 2-Hexanone             | 9.51  | 43  | 12712    | 5.287     | ug/l   | 83     |
| 67) Ethyl Benzene          | 10.25 | 91  | 137713   | 19.842    | ug/l   | 97     |
| 68) m/p-Xylenes            | 10.36 | 106 | 162098   | 64.190    | ug/l   | 98     |
| 69) o-Xylene               | 10.70 | 106 | 34362    | 13.231    | ug/l   | 100    |
| 70) Styrene                | 10.70 | 104 | 2037     | 0.443     | ug/l # | 1      |
| 73) Isopropylbenzene       | 11.01 | 105 | 117525   | 18.547    | ug/l   | 98     |

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Instrument :  
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 ClientSampleId :  
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 15:27:10 2019  
 Response via : Initial Calibration

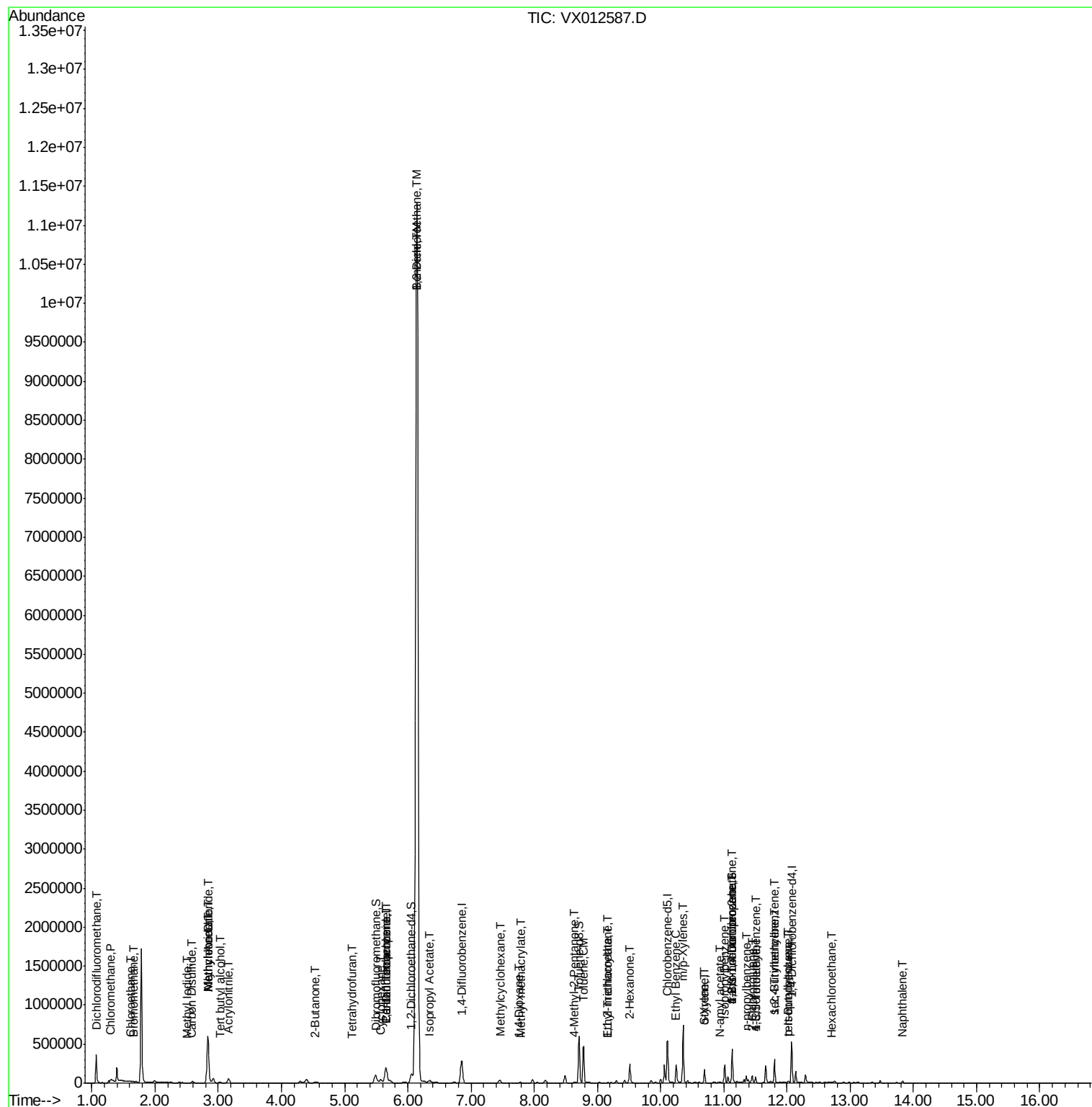
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 74) N-amyl acetate             | 10.94 | 43   | 6791     | 1.991  | ug/l # | 56       |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 60921    | 26.261 | ug/l # | 38       |
| 78) n-propylbenzene            | 11.35 | 91   | 52168    | 7.387  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.45 | 91   | 6248     | 1.360  | ug/l # | 42       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 32491    | 6.012  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 60921    | 70.727 | ug/l # | 9        |
| 82) 4-Chlorotoluene            | 11.50 | 91   | 4152     | 0.787  | ug/l # | 47       |
| 83) tert-Butylbenzene          | 12.02 | 119  | 5310     | 0.917  | ug/l   | 71       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 134515   | 24.242 | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.81 | 105  | 134515   | 21.081 | ug/l # | 57       |
| 86) p-Isopropyltoluene         | 12.02 | 119  | 5310     | 0.906  | ug/l   | 90       |
| 90) Hexachloroethane           | 12.70 | 117  | 2616     | 2.435  | ug/l # | 17       |
| 95) Naphthalene                | 13.83 | 128  | 12301    | 1.766  | ug/l # | 94       |
| -----                          |       |      |          |        |        |          |

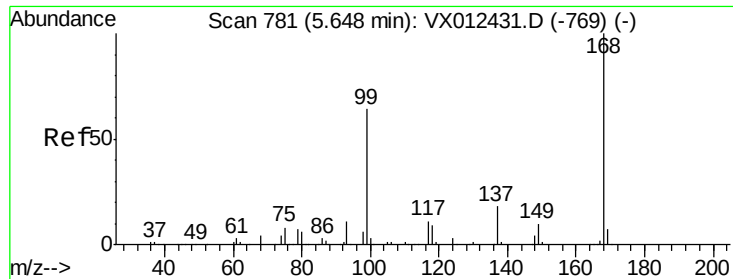
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 17 15:27:10 2019  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

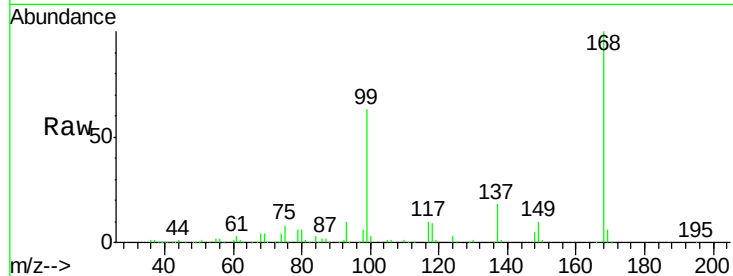
Z2-0161

Tot Ion:168 Resp: 178090

Ion Ratio Lower Upper

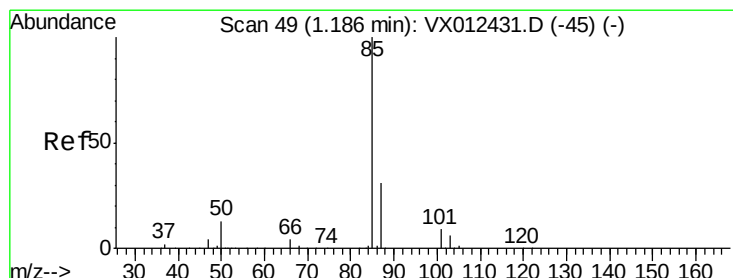
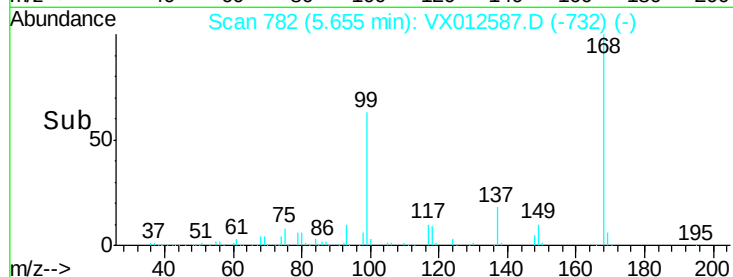
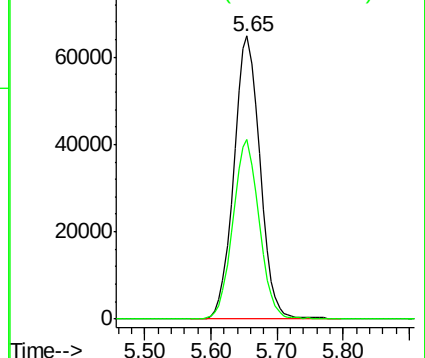
168 100

99 63.3 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.408 ug/l

RT: 1.09 min Scan# 33

Delta R.T. -0.10 min

Lab File: VX012587.D

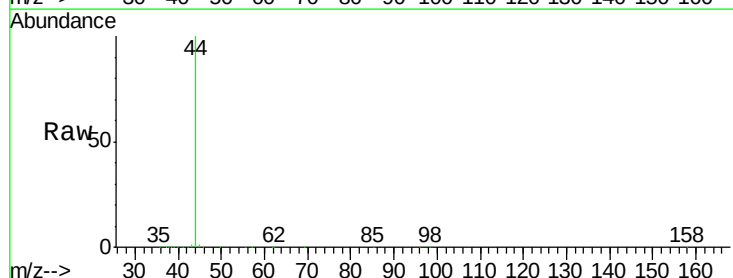
Acq: 21 Sep 2019 03:39

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

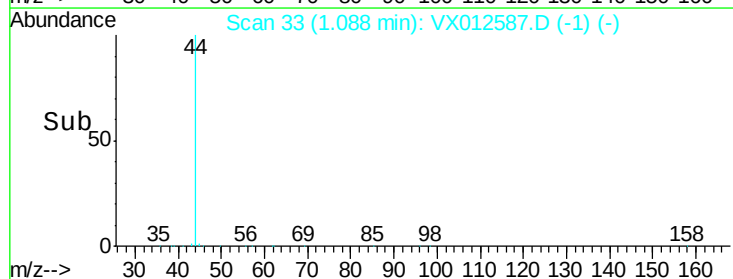
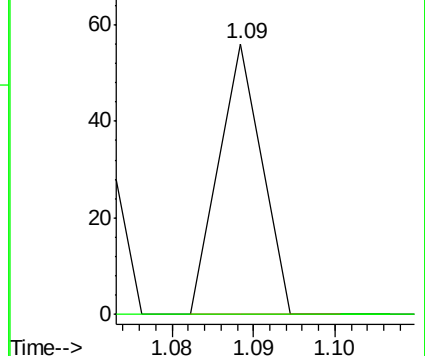
85 100

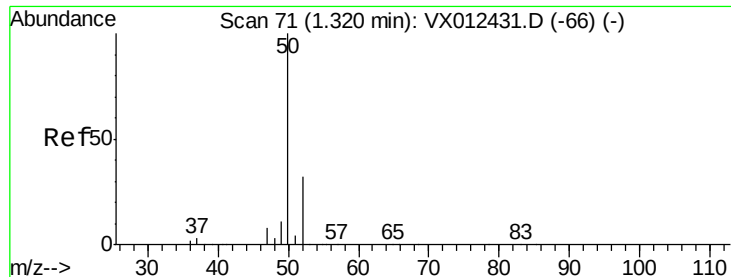
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 2.343 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

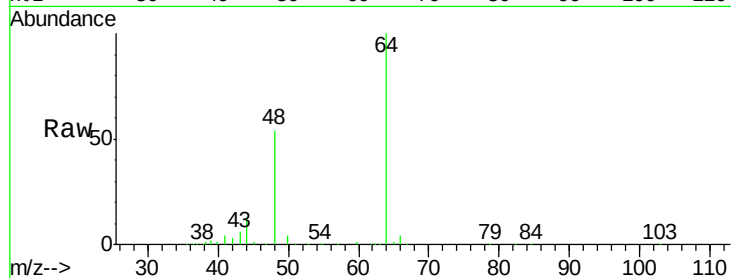
Z2-0161

Tot Ion: 50 Resp: 2294

Ion Ratio Lower Upper

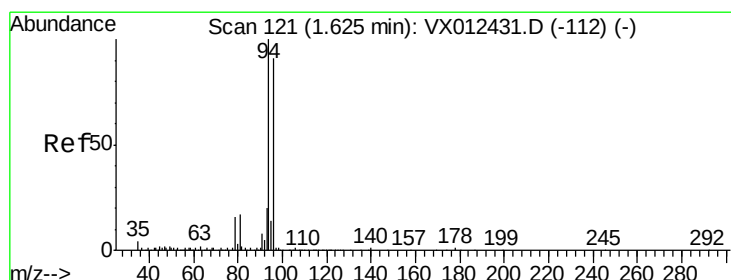
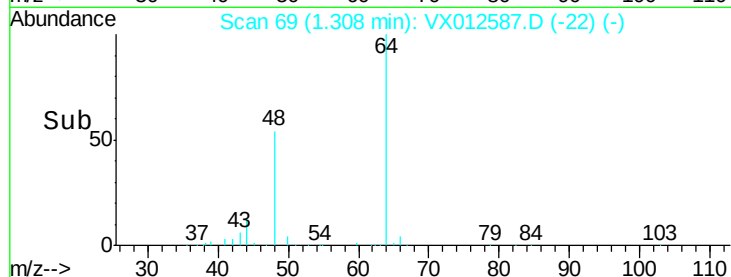
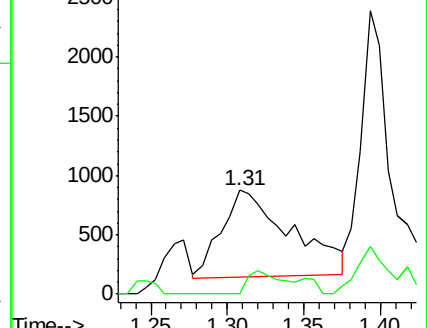
50 100

52 0.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.765 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.03 min

Lab File: VX012587.D

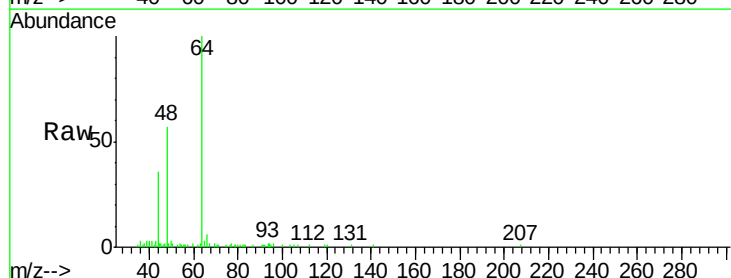
Acq: 21 Sep 2019 03:39

Tgt Ion: 94 Resp: 318

Ion Ratio Lower Upper

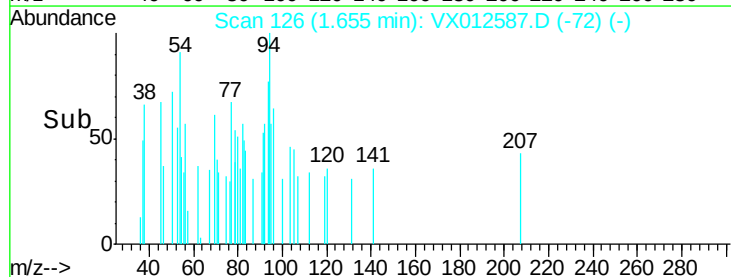
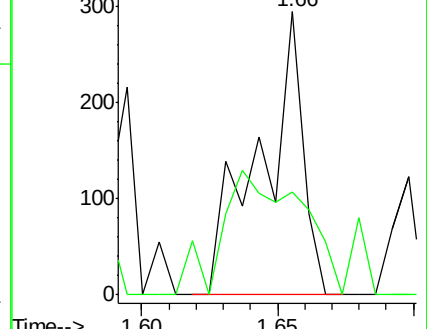
94 100

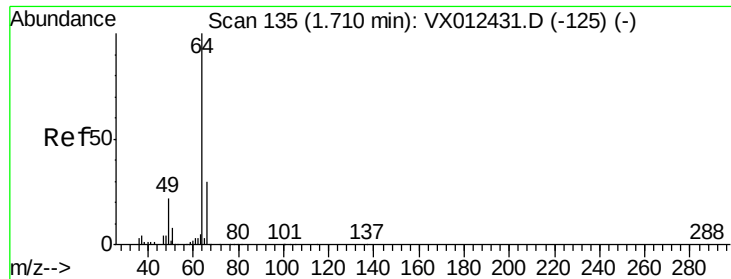
96 36.3 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 2.576 ug/l

RT: 1.61 min Scan# 119

Delta R.T. -0.10 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

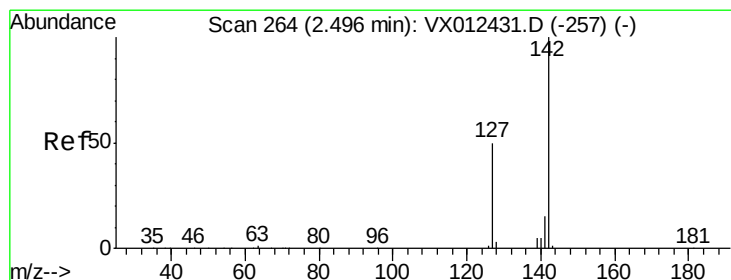
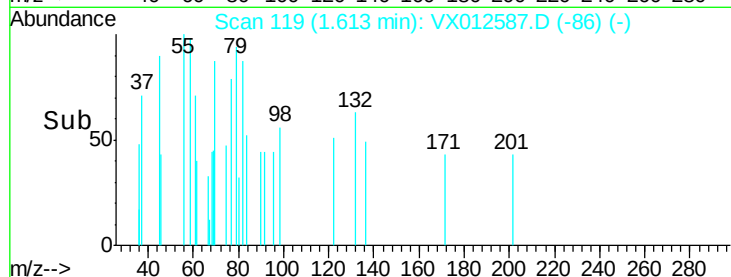
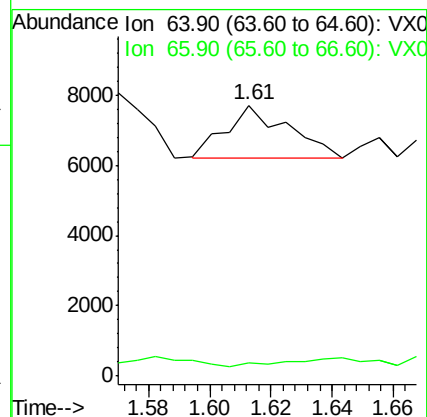
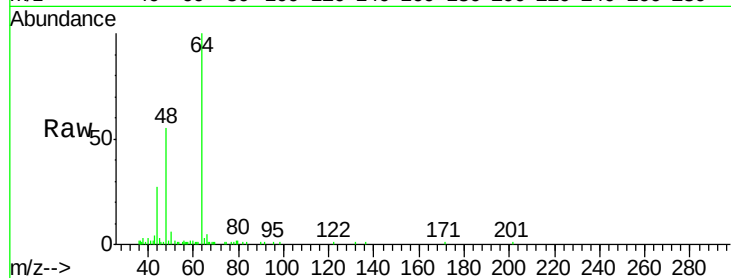
Z2-0161

Tot Ion: 64 Resp: 2133

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#



#10

Methyl Iodide

Concen: 4.582 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

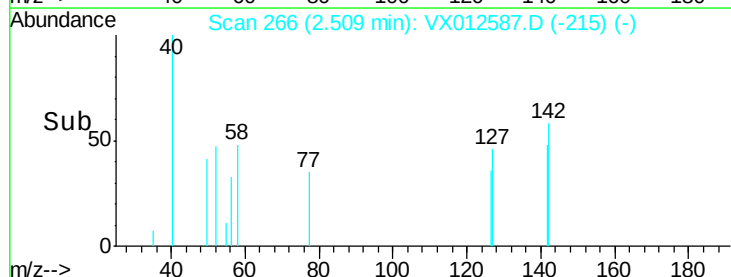
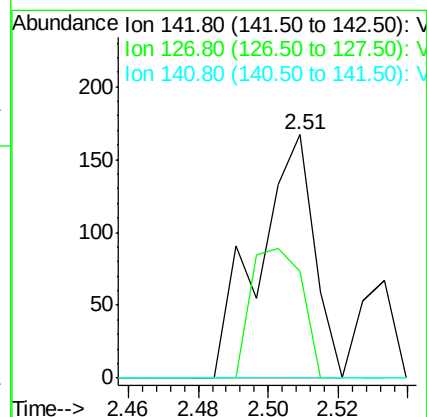
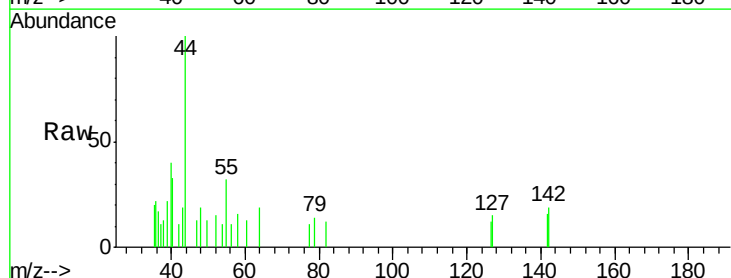
Tgt Ion: 142 Resp: 185

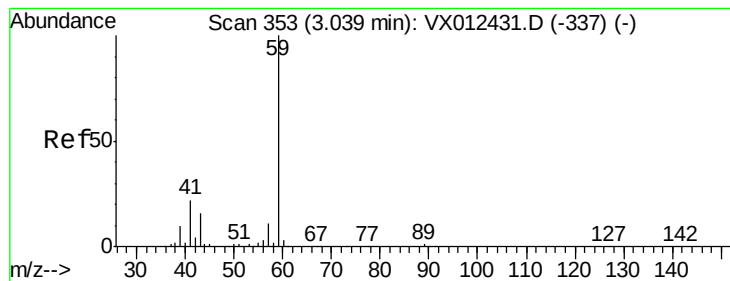
Ion Ratio Lower Upper

142 100

127 48.6 40.8 61.2

141 0.0 12.1 18.1#



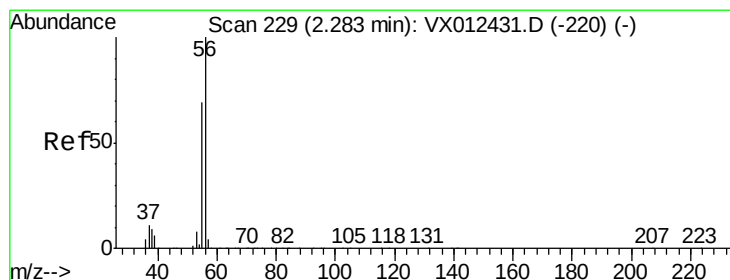
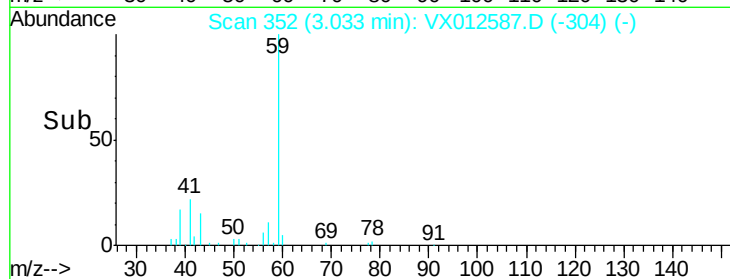
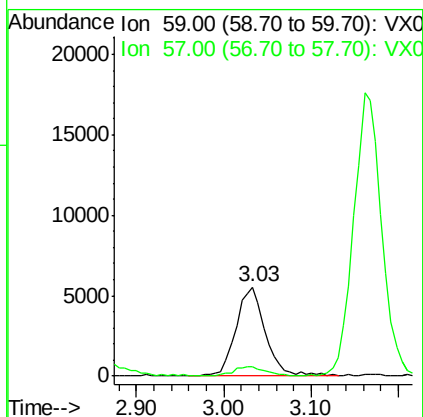
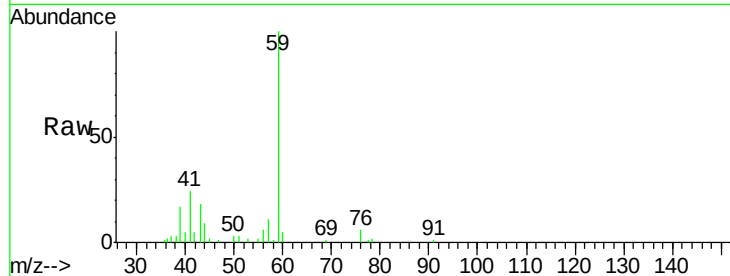


#11

Tert butyl alcohol  
 Concen: 14.608 ug/l  
 RT: 3.03 min Scan# 352  
 Delta R.T. -0.01 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z2-0161

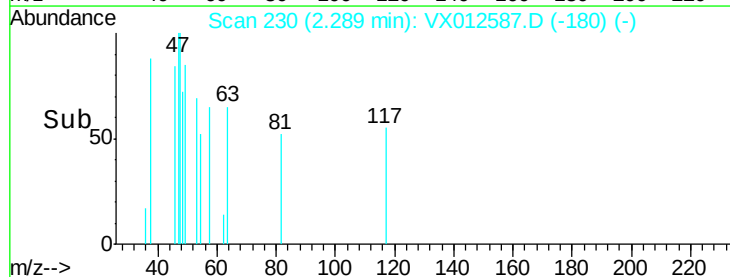
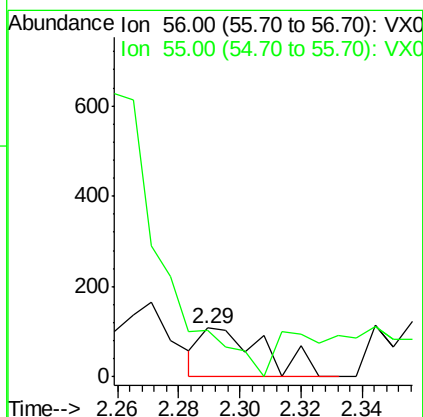
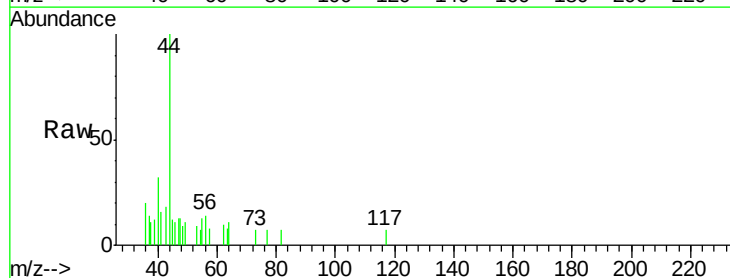
Tot Ion: 59 Resp: 13034  
 Ion Ratio Lower Upper  
 59 100  
 57 12.1 8.3 12.5

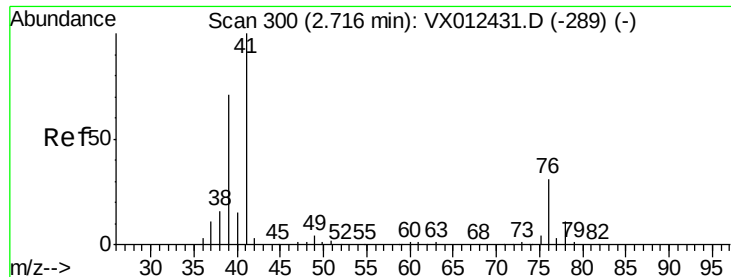


#13

Acrolein  
 Concen: Below Cal  
 RT: 2.29 min Scan# 230  
 Delta R.T. 0.01 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

Tgt Ion: 56 Resp: 156  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 55.8 83.8#





#14

Allvl chloride

Concen: 67.946 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.12 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampled :

Z2-0161

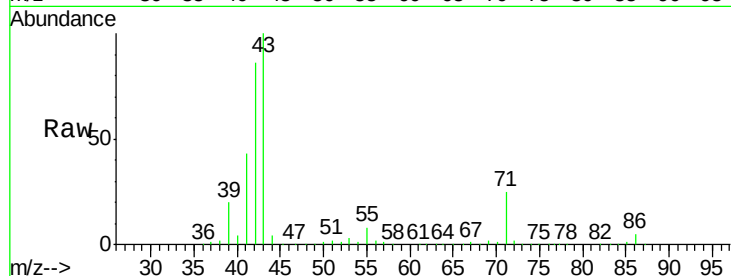
Tot Ion: 41 Resp: 177117

Ion Ratio Lower Upper

41 100

39 46.4 51.3 76.9#

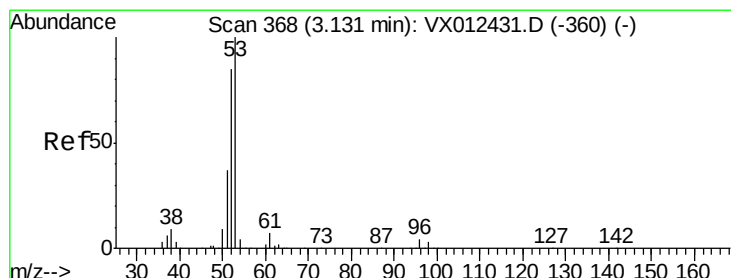
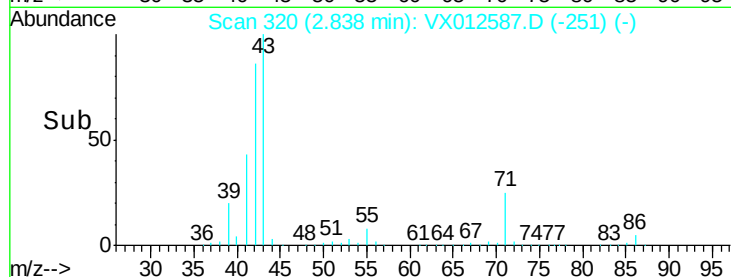
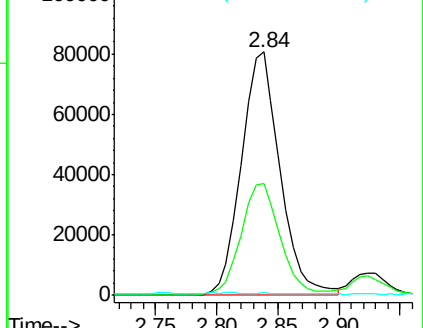
76 0.0 22.6 33.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



#15

Acrylonitrile

Concen: 1.592 ug/l

RT: 3.17 min Scan# 374

Delta R.T. 0.04 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

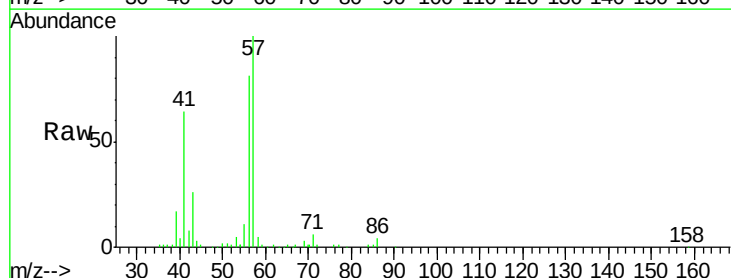
Tgt Ion: 53 Resp: 1761

Ion Ratio Lower Upper

53 100

52 22.7 67.0 100.4#

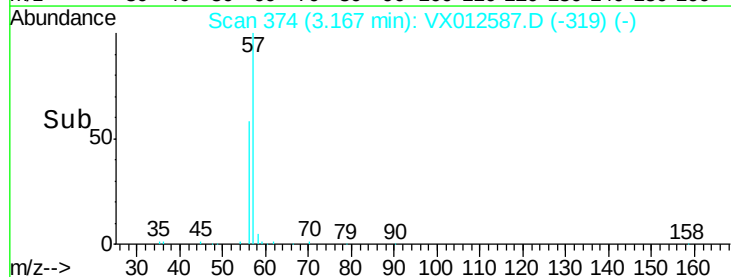
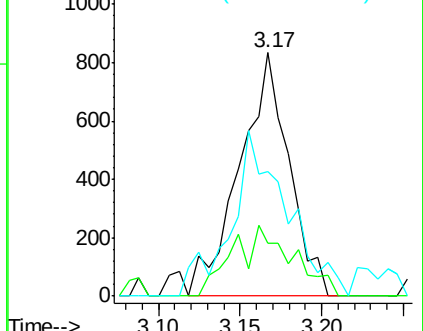
51 0.0 29.6 44.4#



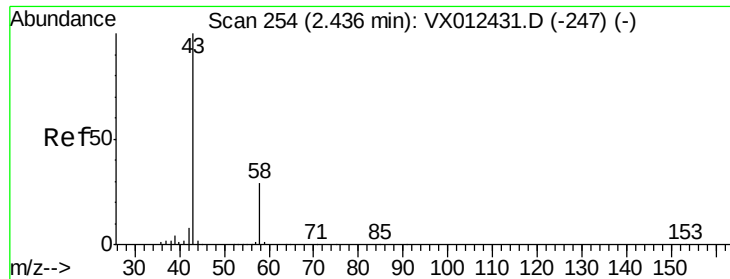
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0







#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

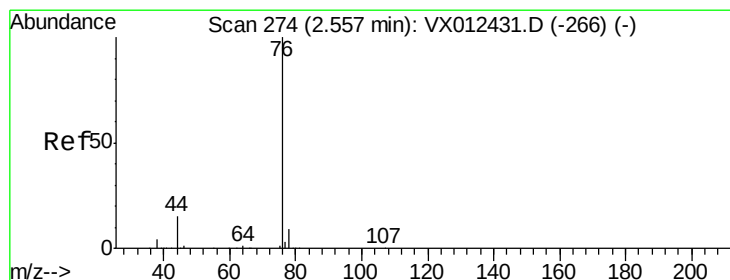
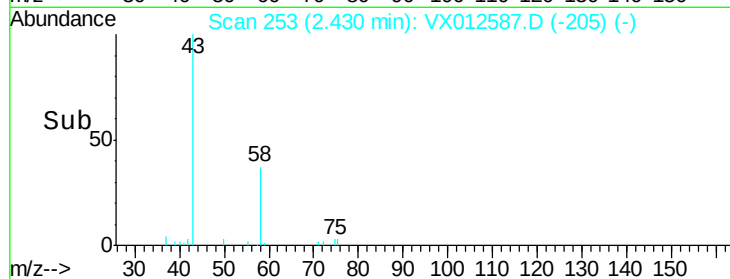
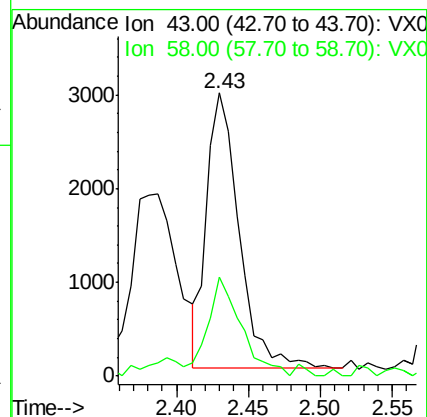
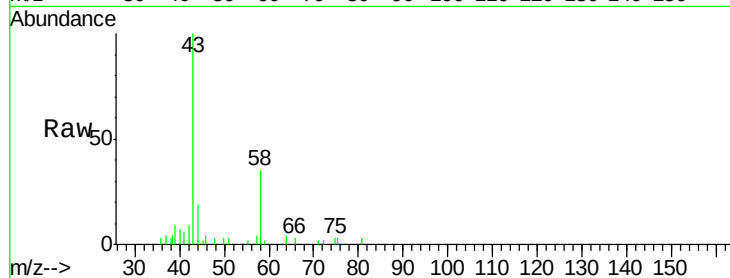
Z2-0161

Tot Ion: 43 Resp: 4554

Ion Ratio Lower Upper

43 100

58 35.9 23.3 34.9#



#17

Carbon Disulfide

Concen: 2.559 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX012587.D

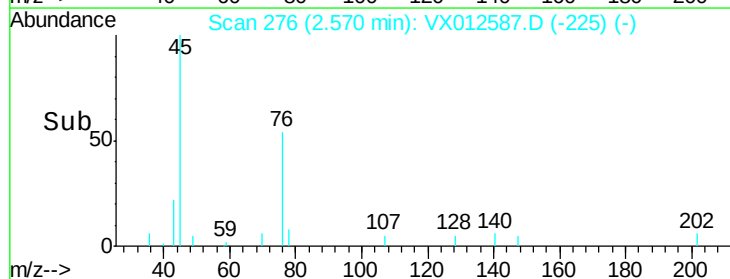
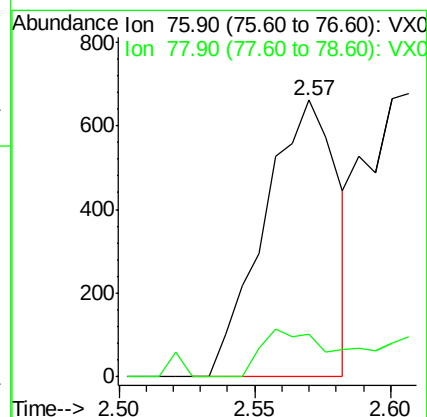
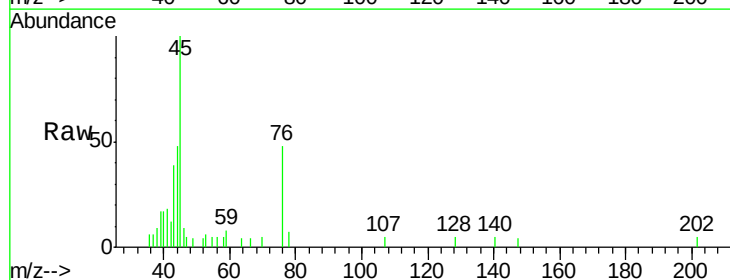
Acq: 21 Sep 2019 03:39

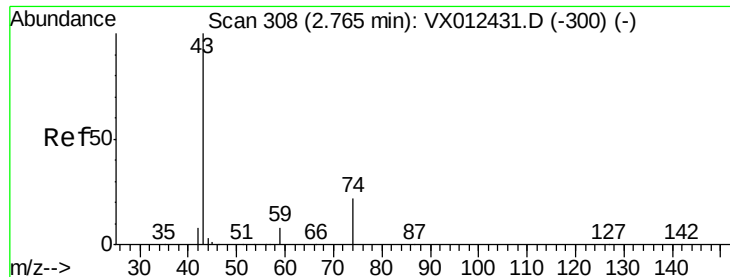
Tgt Ion: 76 Resp: 1236

Ion Ratio Lower Upper

76 100

78 15.5 7.3 10.9#

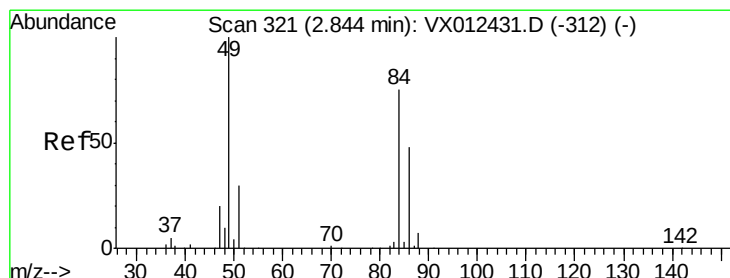
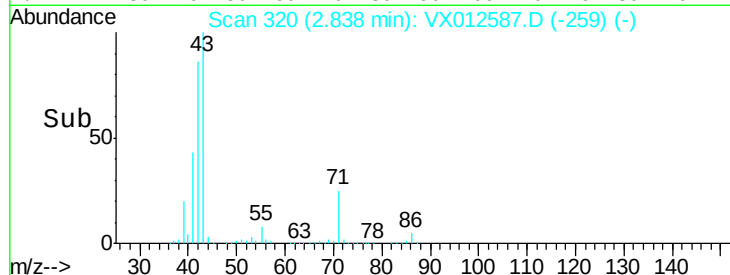
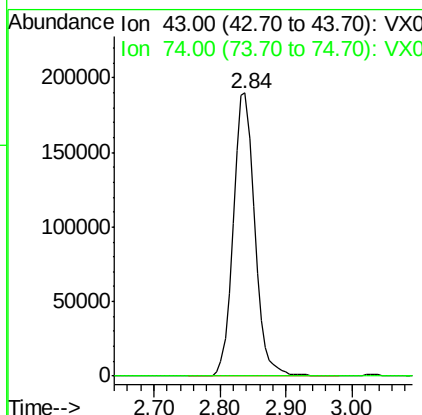
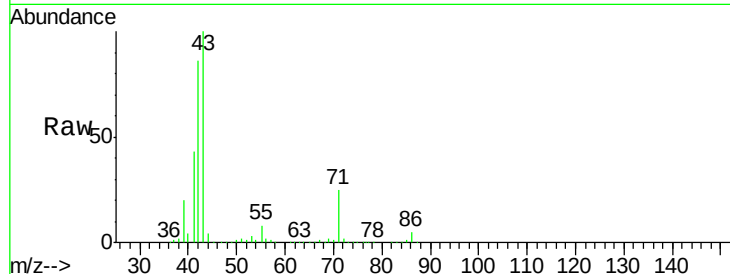




#18  
 Methvl Acetate  
 Concen: 159.697 ug/l  
 RT: 2.84 min Scan# 320  
 Delta R.T. 0.07 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

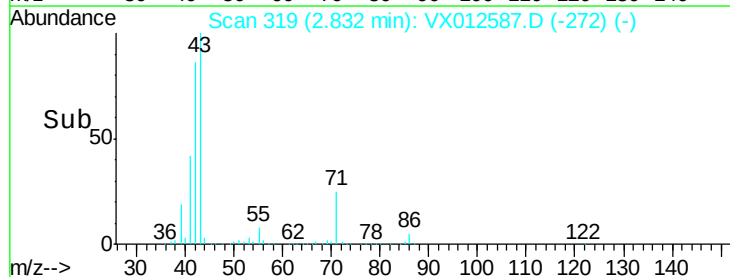
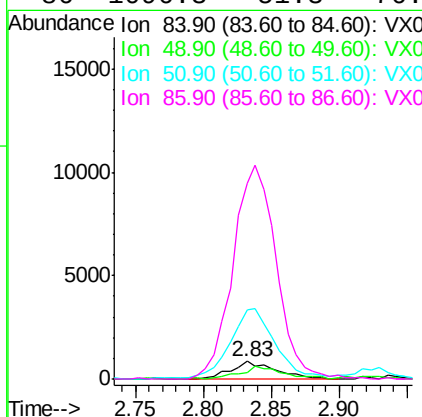
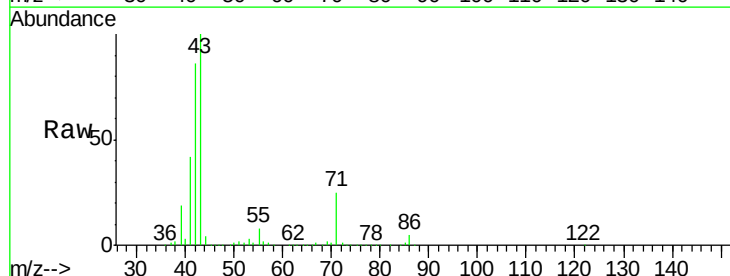
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z2-0161

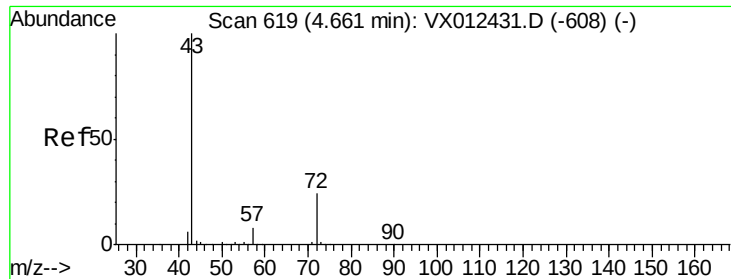
Tot Ion: 43 Resp: 424742  
 Ion Ratio Lower Upper  
 43 100  
 74 0.0 17.7 26.5#



#20  
 Methylene Chloride  
 Concen: 1.274 ug/l  
 RT: 2.83 min Scan# 319  
 Delta R.T. -0.01 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

Tgt Ion: 84 Resp: 1968  
 Ion Ratio Lower Upper  
 84 100  
 49 27.4 106.8 160.2#  
 51 377.8 32.3 48.5#  
 86 1096.3 51.3 76.9#





#25

2-Butanone

Concen: 3.428 ug/l

RT: 4.54 min Scan# 599

Delta R.T. -0.12 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

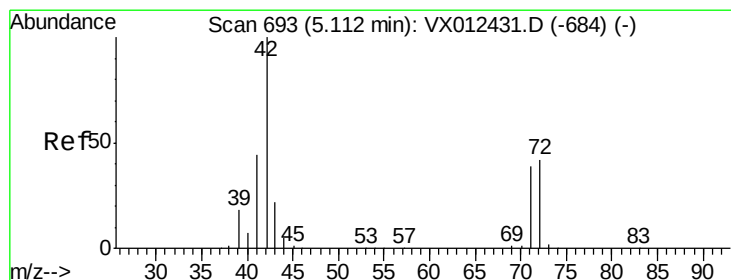
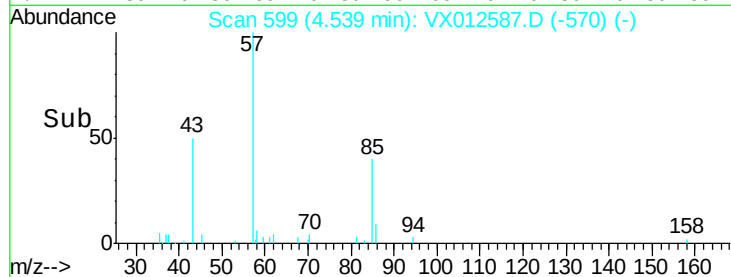
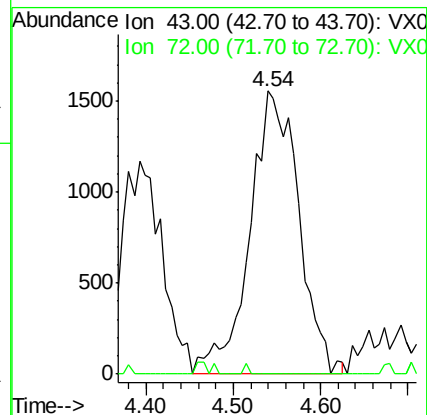
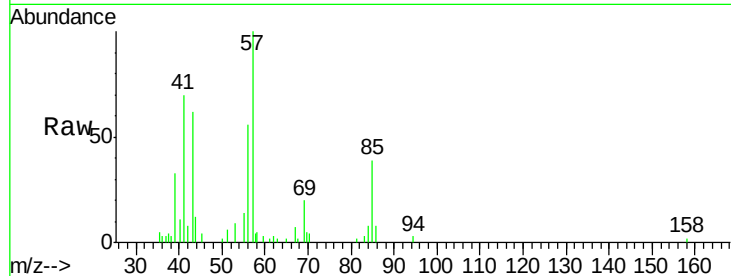
Z2-0161

Tot Ion: 43 Resp: 6069

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



#29

Tetrahydrofuran

Concen: 0.221 ug/l

RT: 5.11 min Scan# 692

Delta R.T. -0.01 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

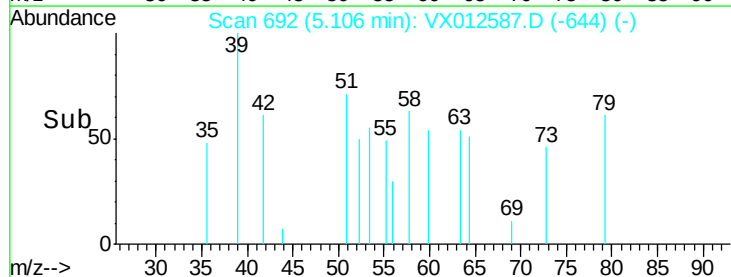
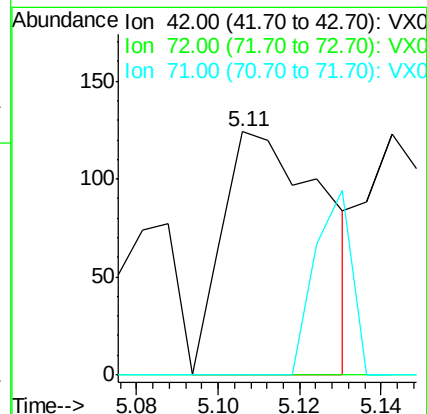
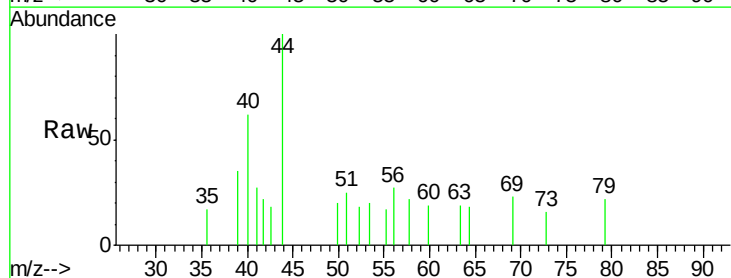
Tgt Ion: 42 Resp: 216

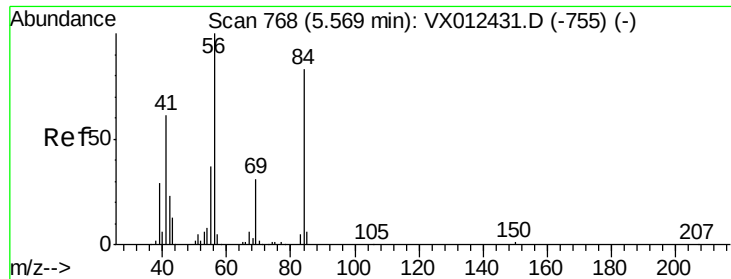
Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

71 0.0 31.5 47.3#

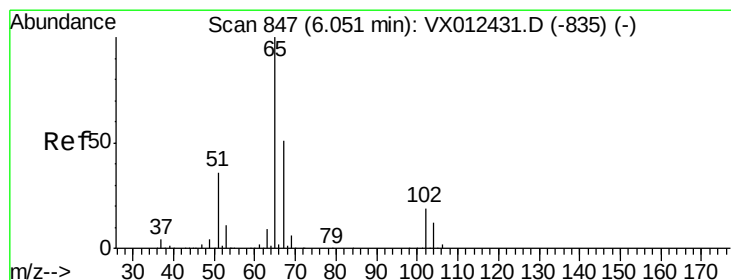
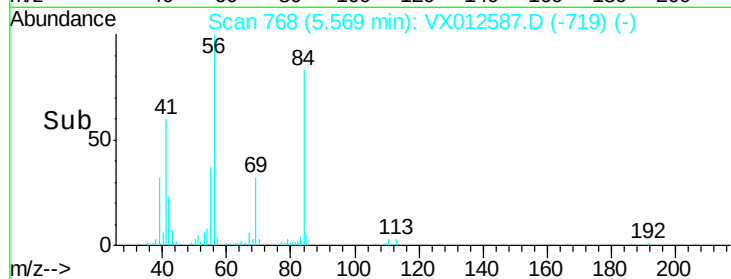
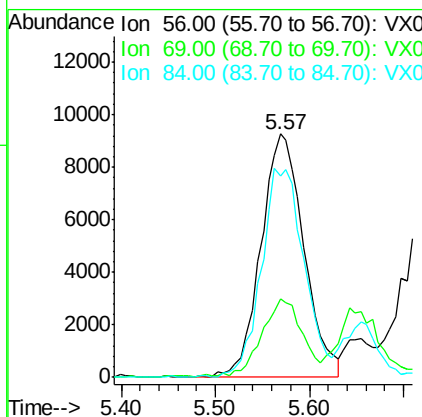
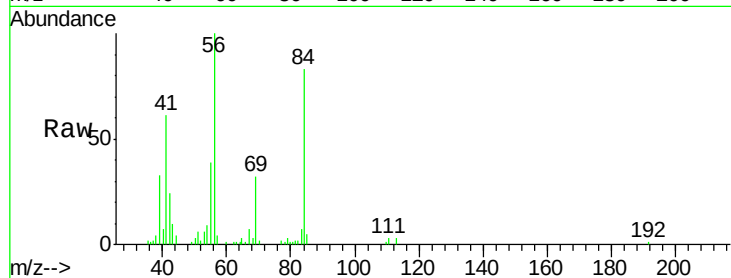




#31  
Cyclohexane  
Concen: 16.706 ug/l  
RT: 5.57 min Scan# 768  
Delta R.T. 0.00 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

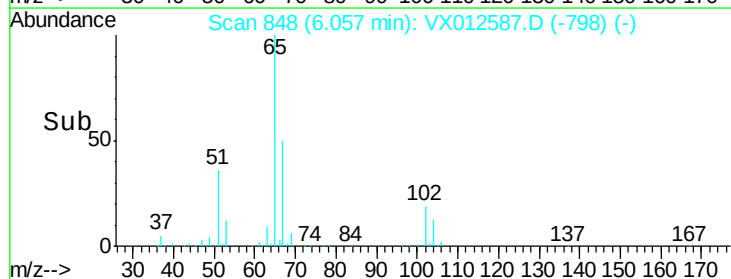
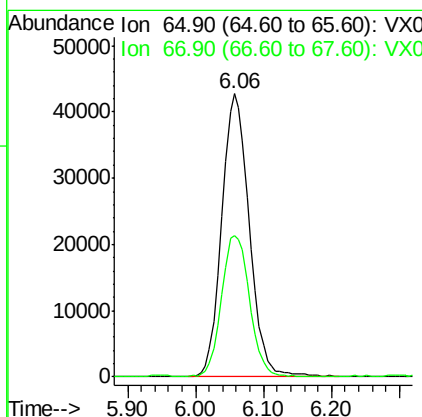
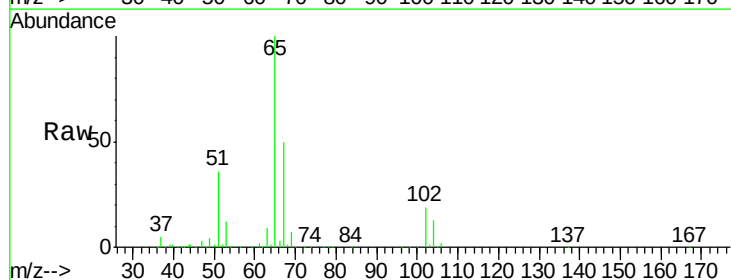
Instrument :  
MSVOA\_X  
ClientSampled :  
Z2-0161

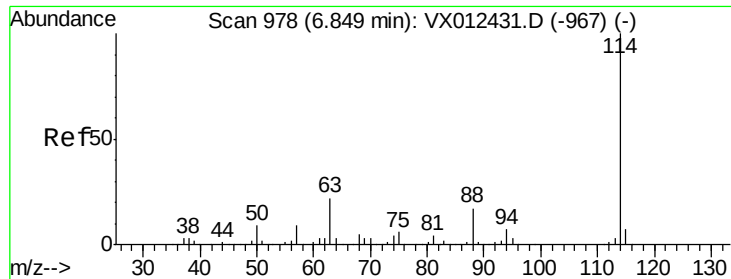
| Tot Ion | 56    | Resp  | 29451 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 56      | 100   |       |       |
| 69      | 31.4  | 25.0  | 37.6  |
| 84      | 82.8  | 66.4  | 99.6  |



#33  
1,2-Dichloroethane-d4  
Concen: 47.056 ug/l  
RT: 6.06 min Scan# 848  
Delta R.T. 0.01 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

| Tgt Ion | 65    | Resp  | 120104 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 65      | 100   |       |        |
| 67      | 50.7  | 0.0   | 101.2  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

Z2-0161

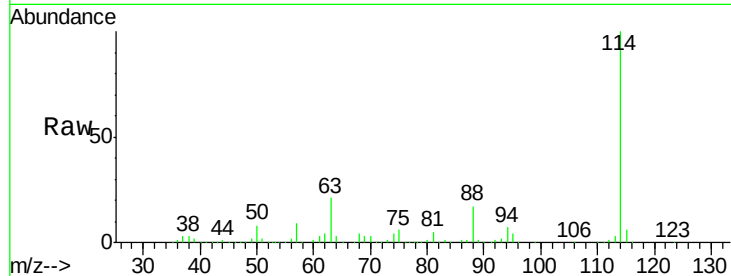
Tot Ion:114 Resp: 280690

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.2

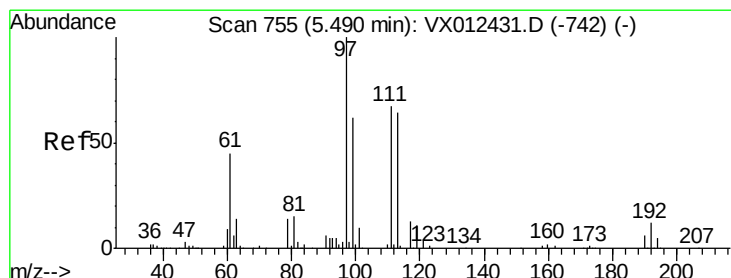
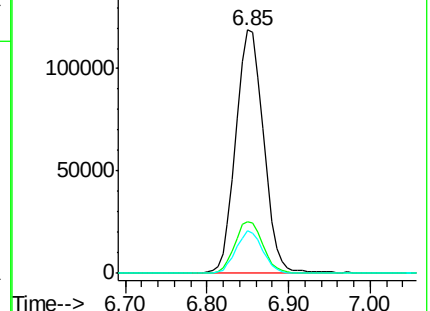
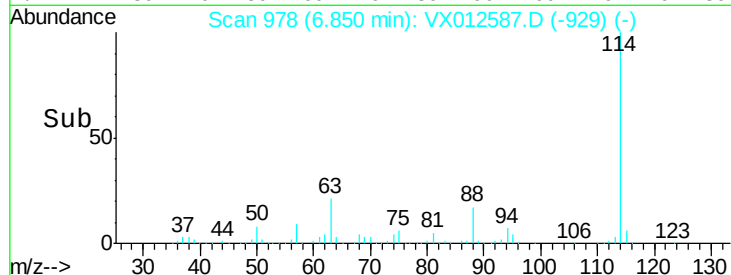
88 17.4 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.641 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

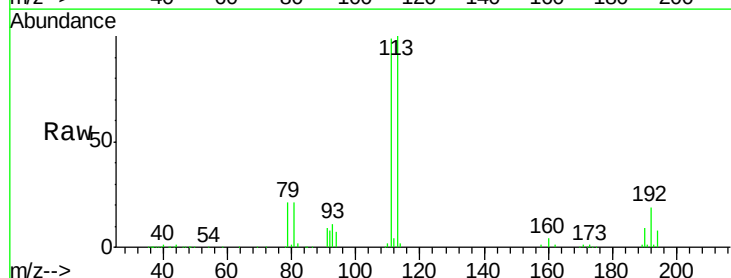
Tgt Ion:113 Resp: 86034

Ion Ratio Lower Upper

113 100

111 100.4 83.4 125.2

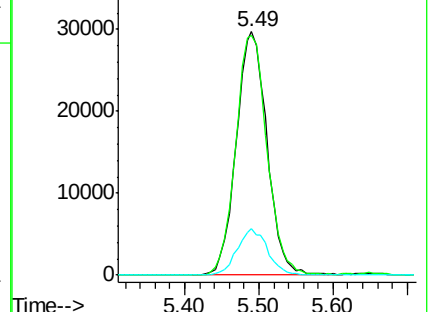
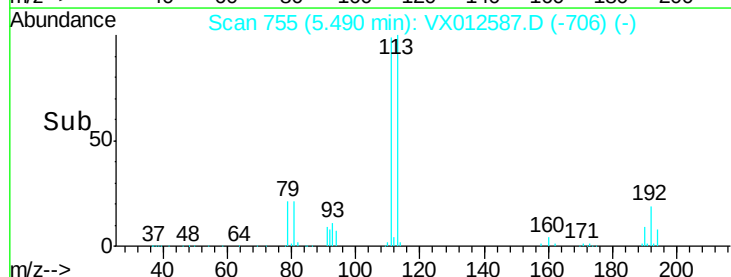
192 18.8 14.4 21.6

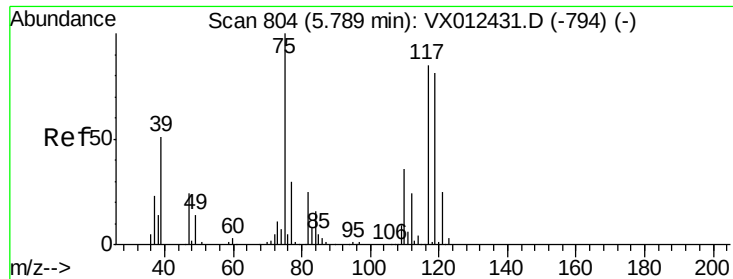


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

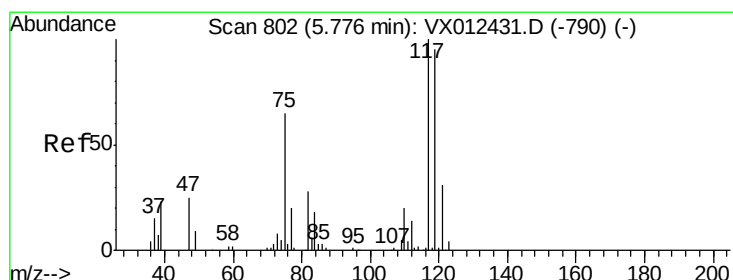
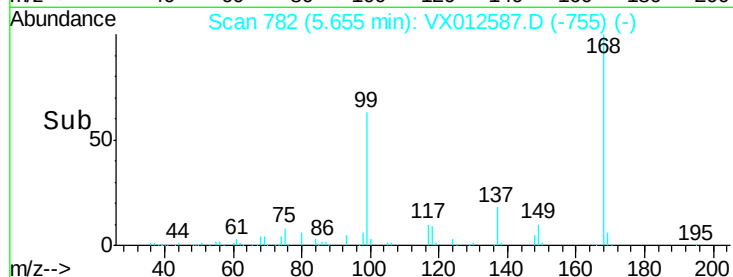
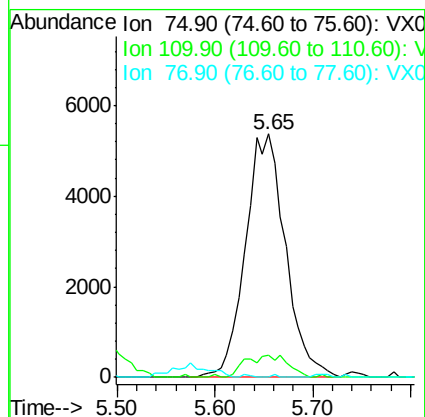
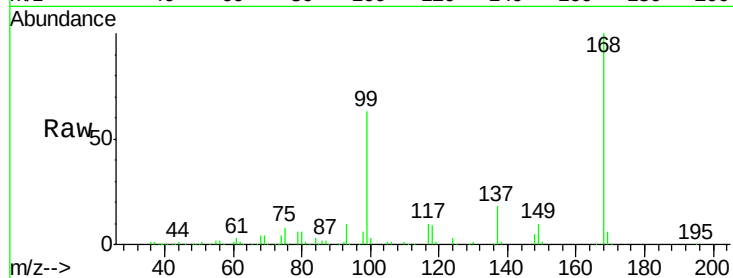




#36  
 1,1-Dichloropropene  
 Concen: 8.894 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.13 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

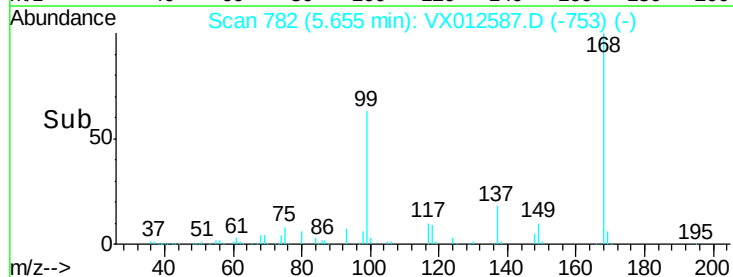
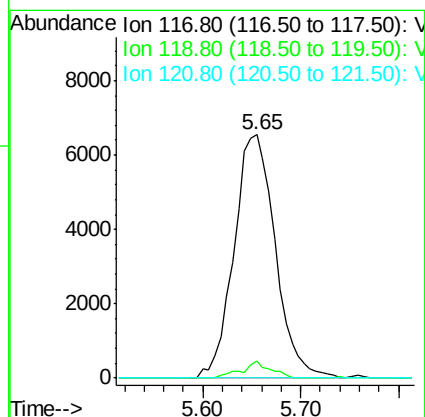
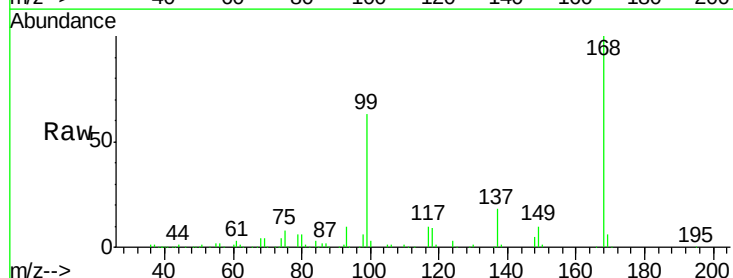
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z2-0161

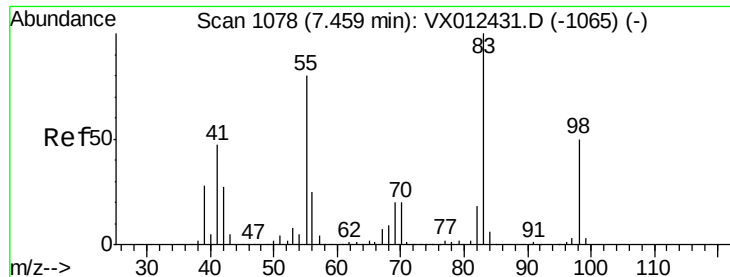
Tot Ion: 75 Resp: 15172  
 Ion Ratio Lower Upper  
 75 100  
 110 9.7 16.7 50.0#  
 77 0.0 24.2 36.2#



#38  
 Carbon Tetrachloride  
 Concen: 9.027 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.12 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

Tgt Ion: 117 Resp: 19152  
 Ion Ratio Lower Upper  
 117 100  
 119 6.8 75.7 113.5#  
 121 0.0 24.2 36.4#

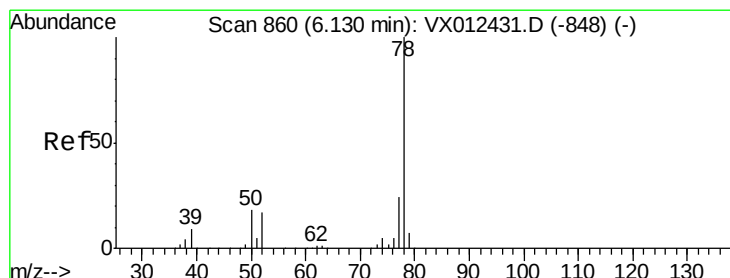
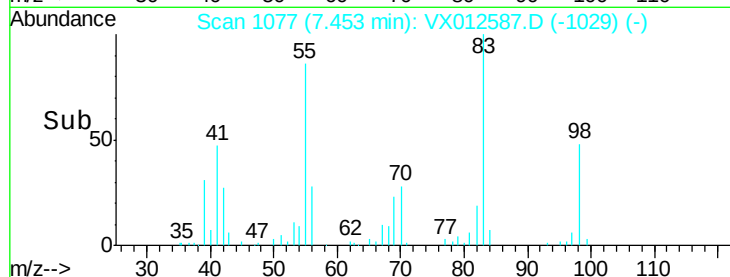
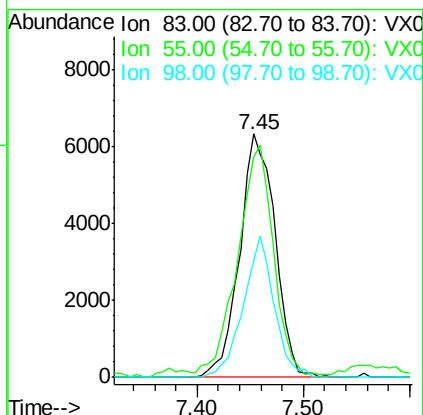
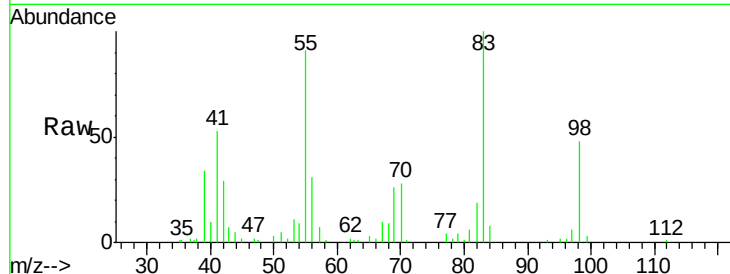




#39  
Methylvlcyclohexane  
Concen: 8.923 ug/l  
RT: 7.45 min Scan# 1077  
Delta R.T. -0.01 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

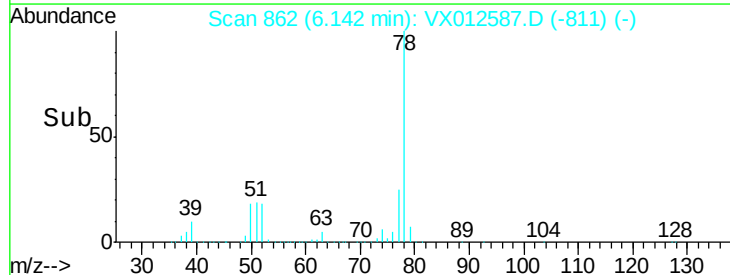
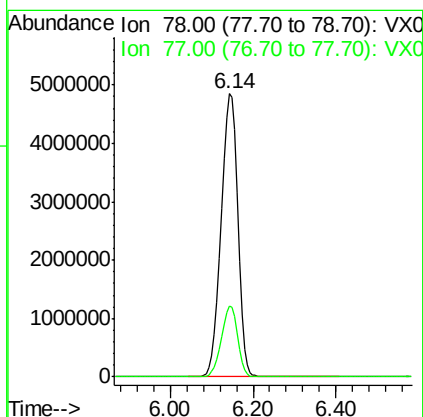
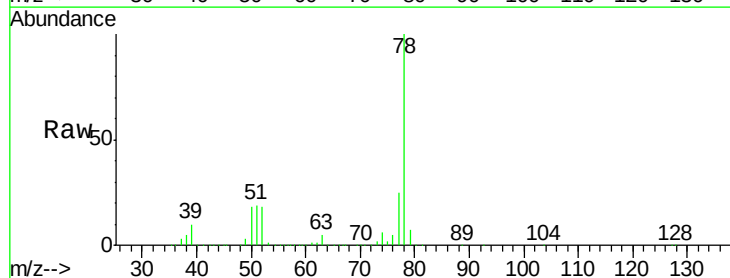
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z2-0161

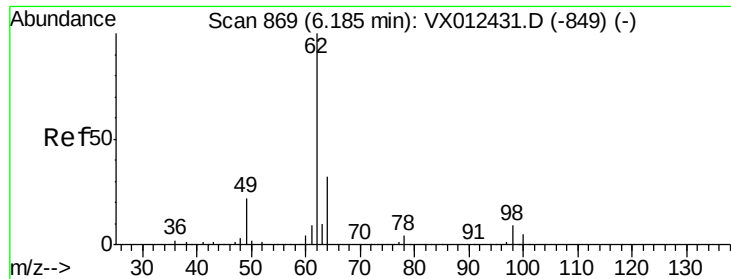
Tot Ion: 83 Resp: 14798  
Ion Ratio Lower Upper  
83 100  
55 88.7 64.4 96.6  
98 48.0 40.1 60.1



#40  
Benzene  
Concen: 2480.955 ug/l  
RT: 6.14 min Scan# 862  
Delta R.T. 0.01 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

Tgt Ion: 78 Resp:13458390  
Ion Ratio Lower Upper  
78 100  
77 25.0 19.2 28.8

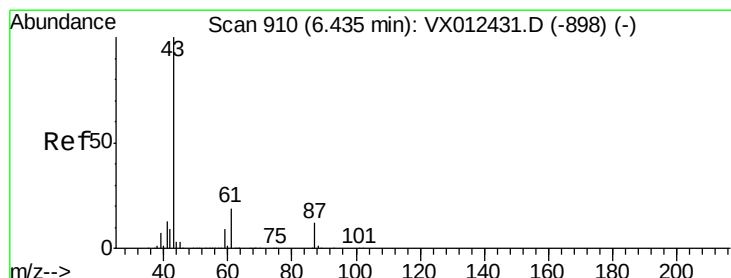
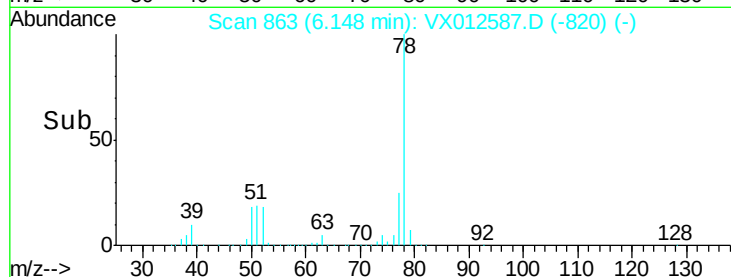
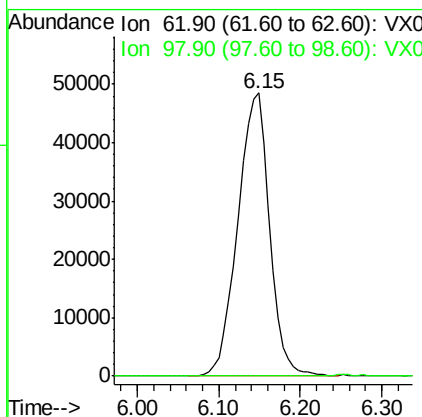
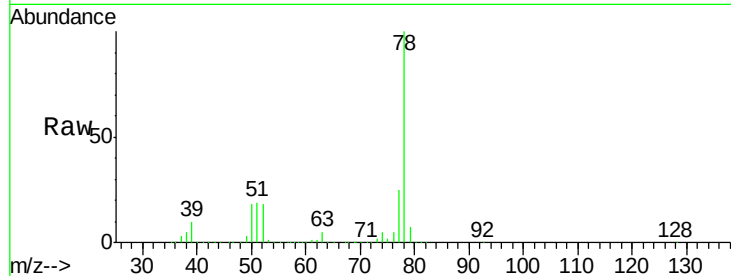




#42  
 1,2-Dichloroethane  
 Concen: 52.131 ug/l  
 RT: 6.15 min Scan# 863  
 Delta R.T. -0.04 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

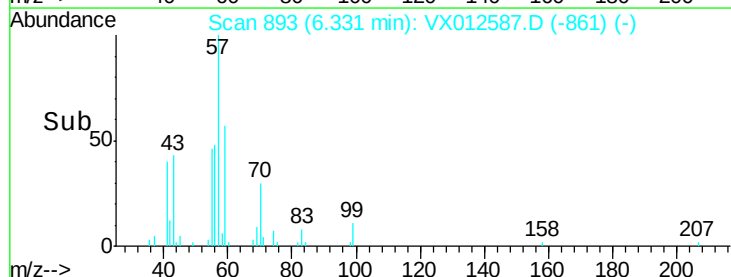
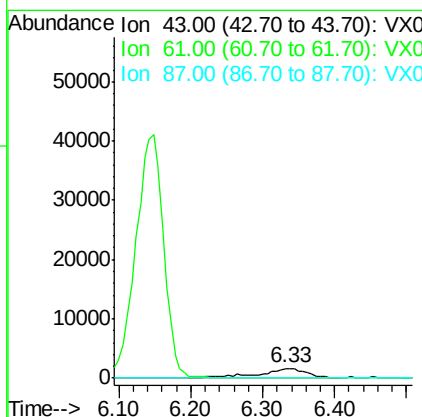
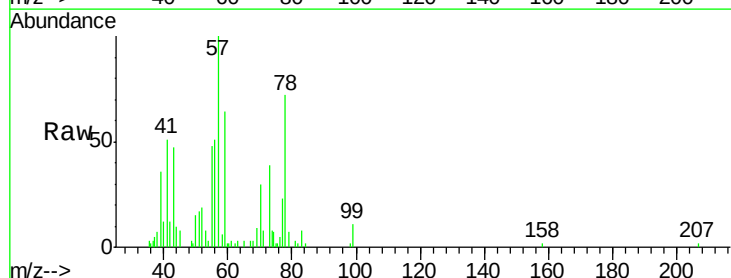
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 Z2-0161

Tot Ion: 62 Resp: 131164  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 0.0 17.8

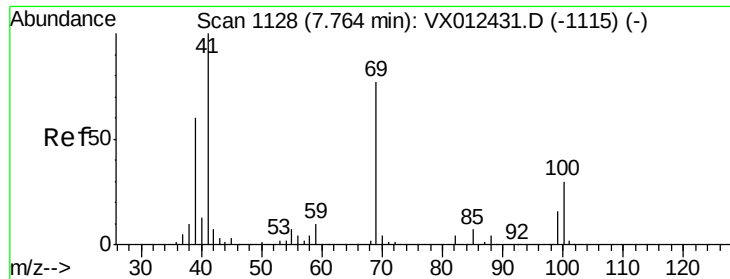


#43  
 Isopropyl Acetate  
 Concen: 1.422 ug/l  
 RT: 6.33 min Scan# 893  
 Delta R.T. -0.10 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

Tgt Ion: 43 Resp: 6683  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 15.4 23.0#  
 87 0.0 9.8 14.8#



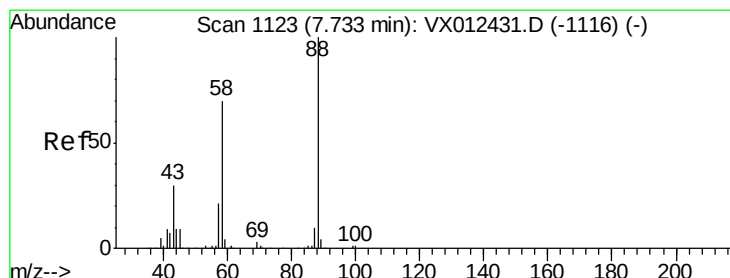
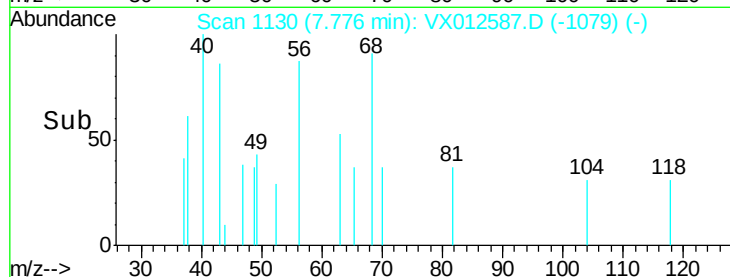
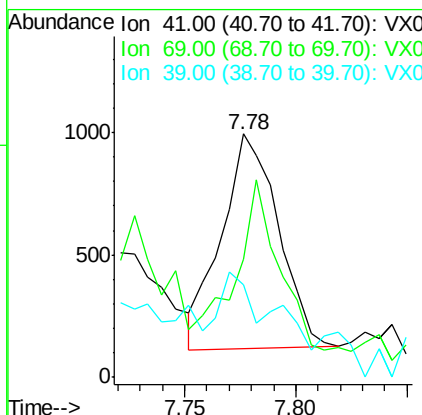
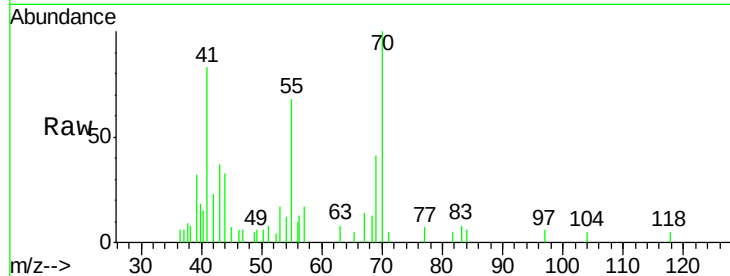




#48  
Methvl methacrylate  
Concen: 0.705 ug/l  
RT: 7.78 min Scan# 1130  
Delta R.T. 0.01 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

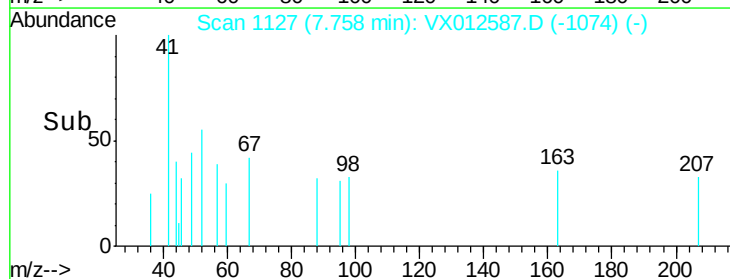
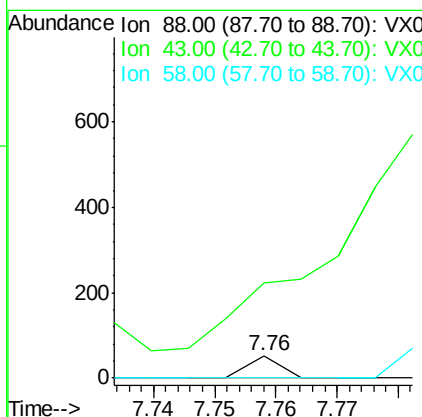
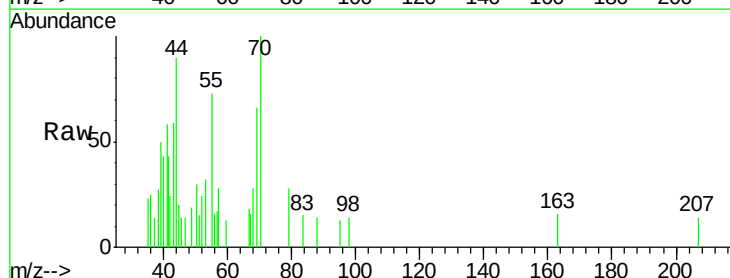
Instrument :  
MSVOA\_X  
ClientSampled :  
Z2-0161

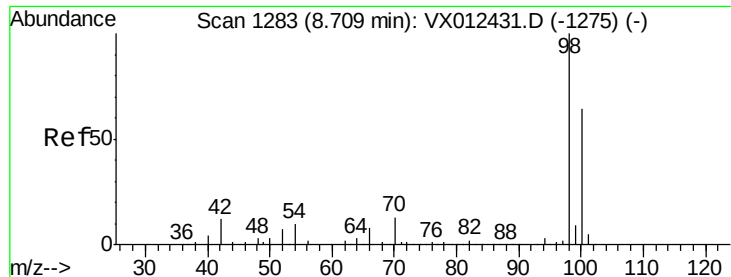
Tot Ion: 41 Resp: 1561  
Ion Ratio Lower Upper  
41 100  
69 80.7 59.9 89.9  
39 29.9 47.8 71.6#



#49  
1,4-Dioxane  
Concen: 0.352 ug/l  
RT: 7.76 min Scan# 1127  
Delta R.T. 0.02 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

Tgt Ion: 88 Resp: 19  
Ion Ratio Lower Upper  
88 100  
43 0.0 29.4 44.0#  
58 0.0 57.5 86.3#





#50

Toluene-d8

Concen: 52.458 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

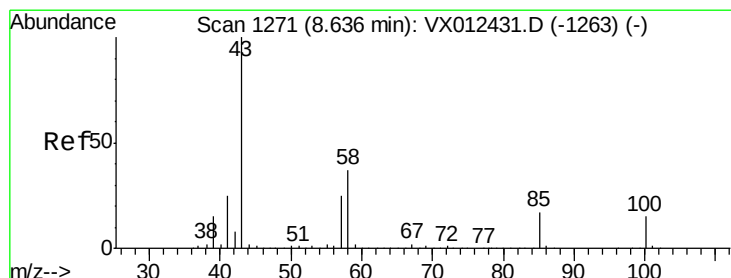
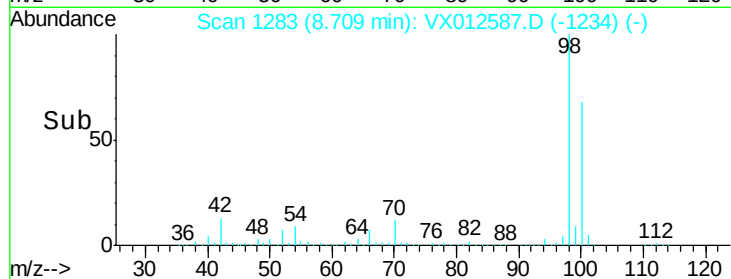
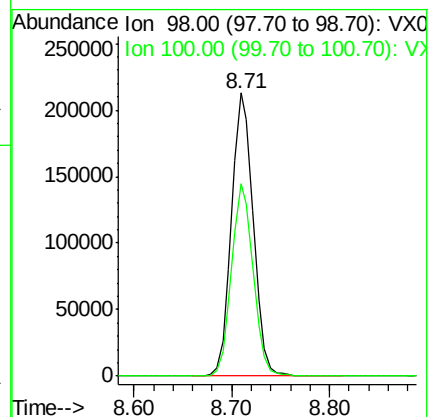
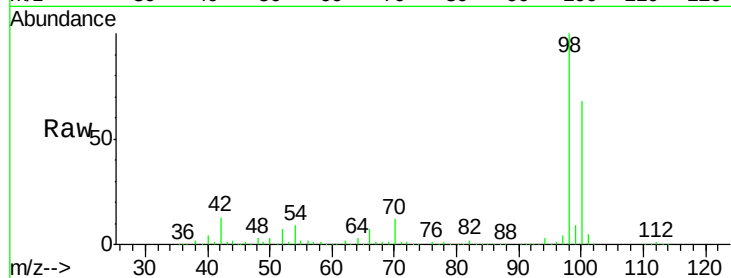
Z2-0161

Tot Ion: 98 Resp: 329873

Ion Ratio Lower Upper

98 100

100 67.1 53.4 80.2



#51

4-Methyl-2-Pentanone

Concen: 2.413 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX012587.D

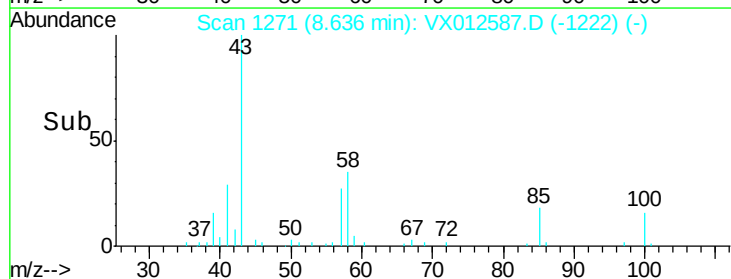
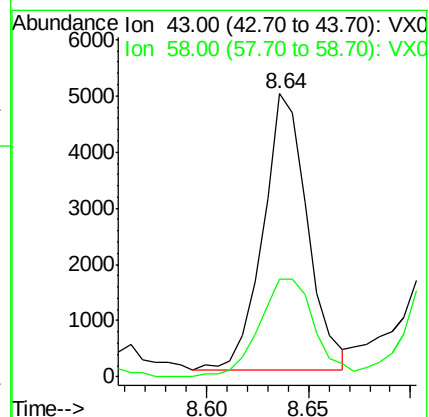
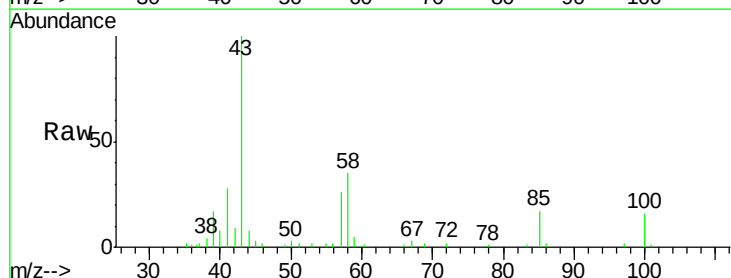
Acq: 21 Sep 2019 03:39

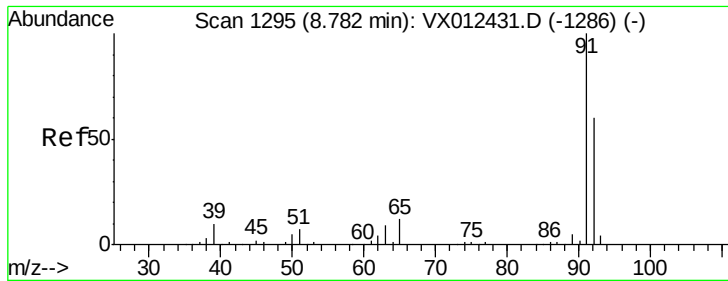
Tgt Ion: 43 Resp: 7436

Ion Ratio Lower Upper

43 100

58 44.5 29.8 44.6





#52

Toluene

Concen: 50.127 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

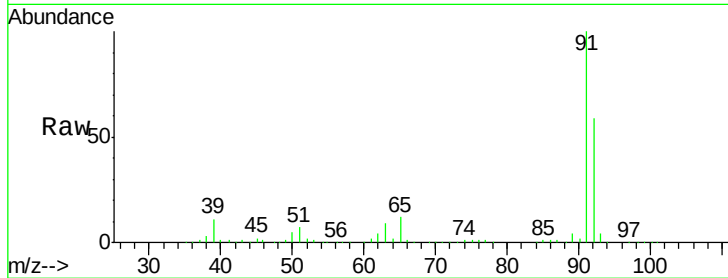
Z2-0161

Tot Ion: 92 Resp: 175221

Ion Ratio Lower Upper

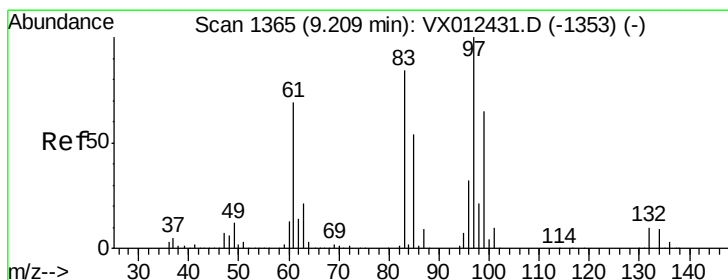
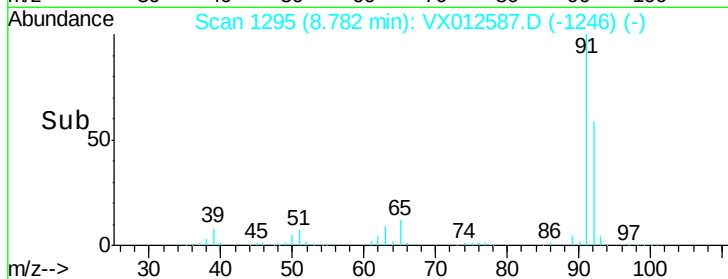
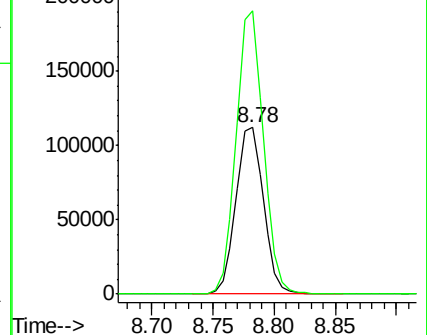
92 100

91 167.9 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#55

1,1,2-Trichloroethane

Concen: 0.690 ug/l

RT: 9.16 min Scan# 1357

Delta R.T. -0.05 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Tgt Ion: 97 Resp: 1243

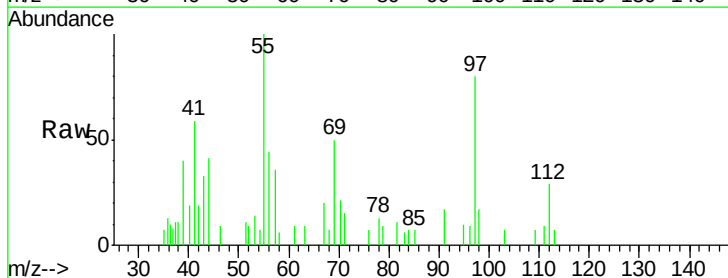
Ion Ratio Lower Upper

97 100

83 7.8 67.4 101.2#

85 8.4 43.5 65.3#

99 0.0 51.8 77.8#

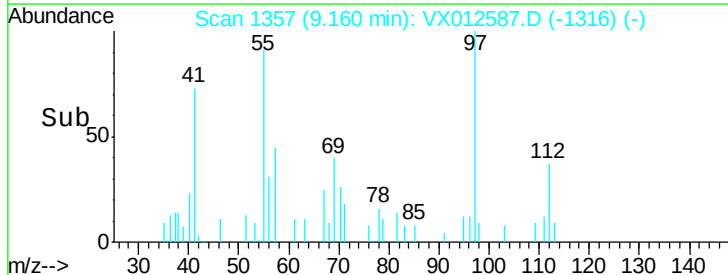
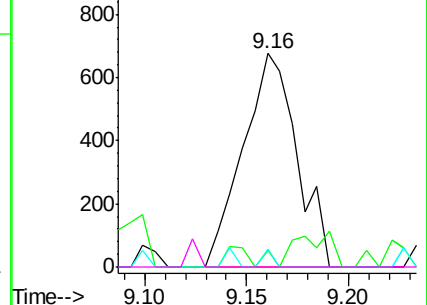


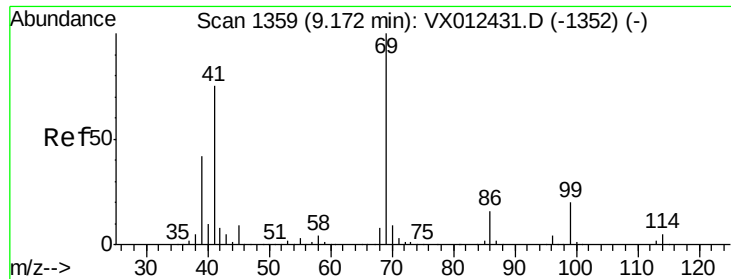
Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

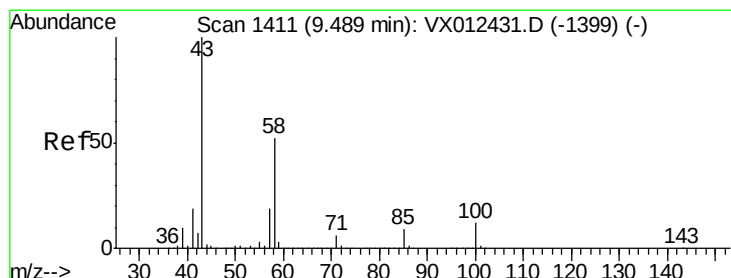
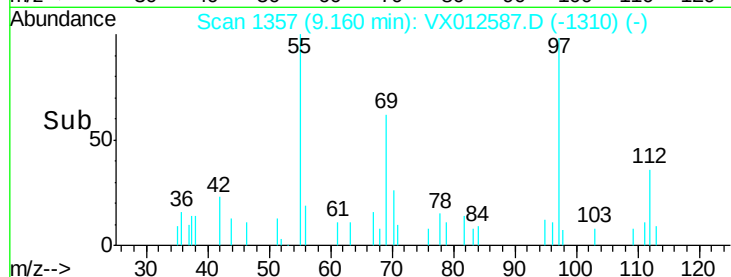
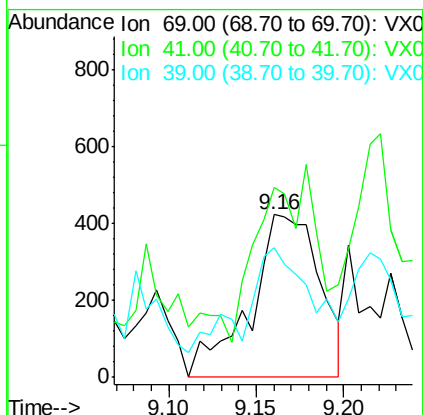
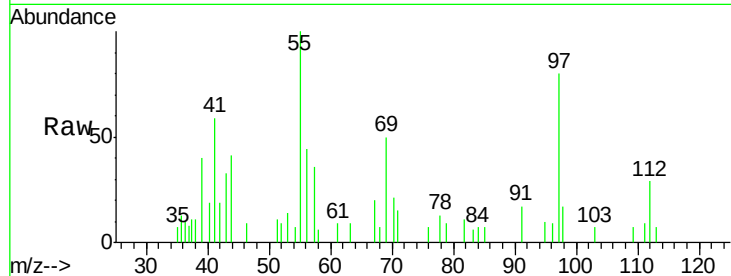




#56  
Ethyl methacrylate  
Concen: 0.417 ug/l  
RT: 9.16 min Scan# 1357  
Delta R.T. -0.01 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

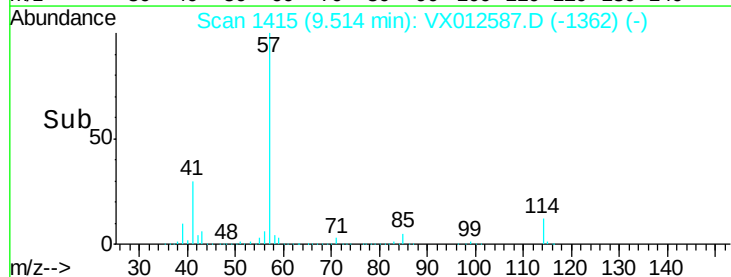
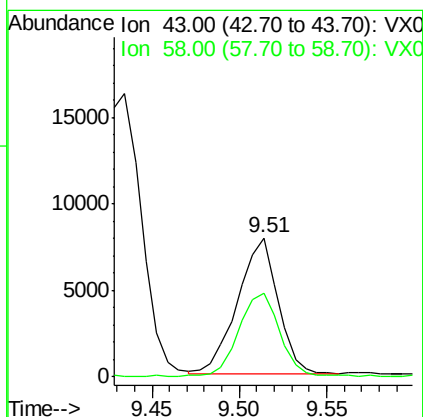
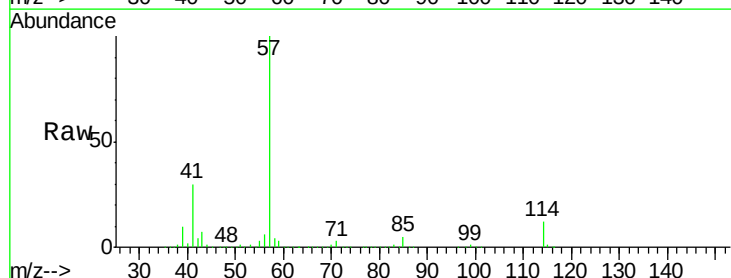
Instrument :  
MSVOA\_X  
ClientSampled :  
Z2-0161

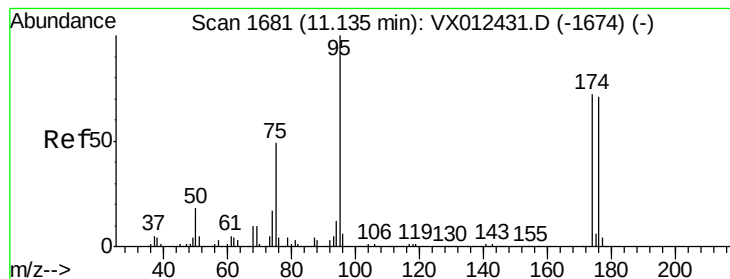
Tot Ion: 69 Resp: 1175  
Ion Ratio Lower Upper  
69 100  
41 84.3 58.4 87.6  
39 40.9 33.4 50.0



#59  
2-Hexanone  
Concen: 5.287 ug/l  
RT: 9.51 min Scan# 1415  
Delta R.T. 0.02 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

Tgt Ion: 43 Resp: 12712  
Ion Ratio Lower Upper  
43 100  
58 63.5 25.7 77.1





#62

4-Bromofluorobenzene

Concen: 45.914 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

Z2-0161

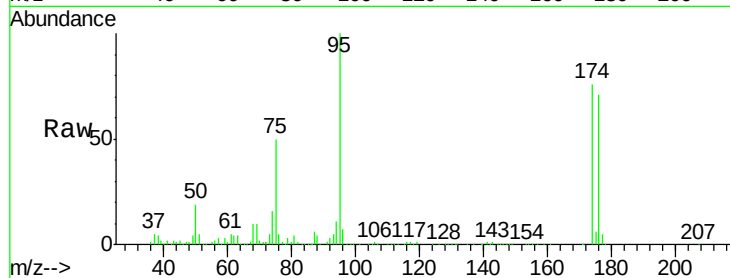
Tot Ion: 95 Resp: 119881

Ion Ratio Lower Upper

95 100

174 72.5 0.0 140.0

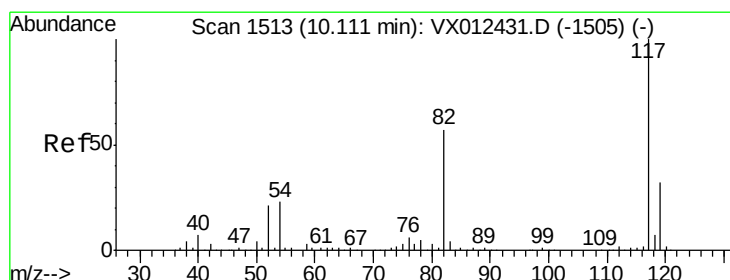
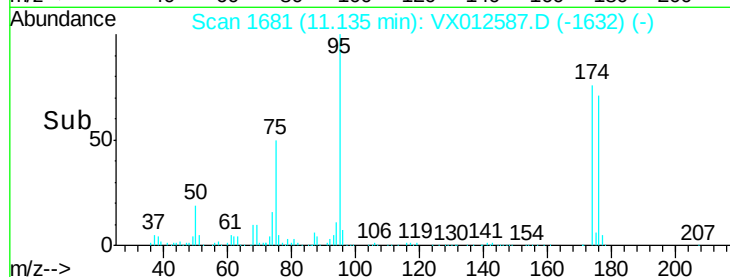
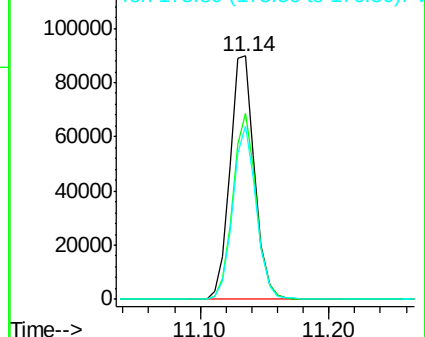
176 68.3 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012587.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012587.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012587.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

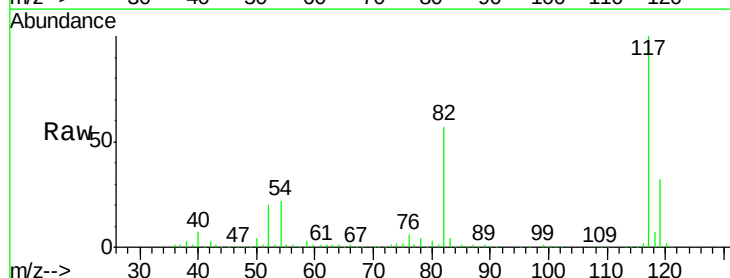
Tgt Ion: 117 Resp: 244757

Ion Ratio Lower Upper

117 100

82 56.9 45.9 68.9

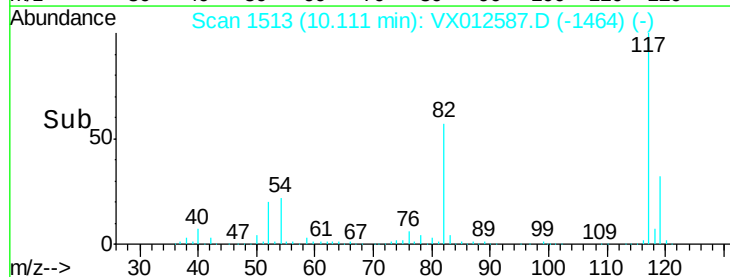
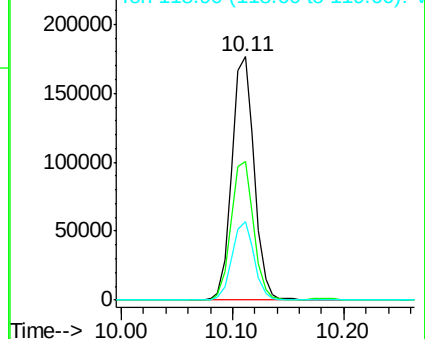
119 32.2 25.3 37.9

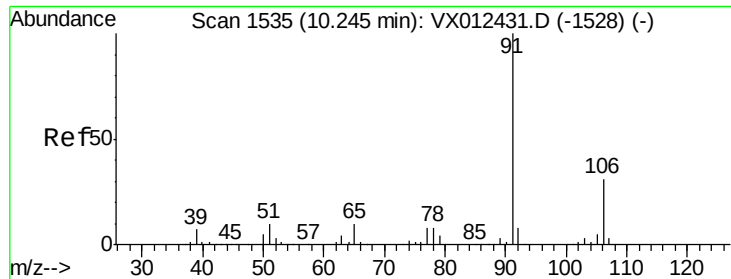


Abundance Ion 116.90 (116.60 to 117.60): VX012587.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012587.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012587.D (-1464) (-)

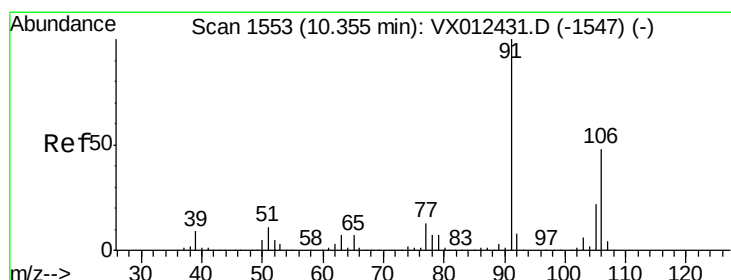
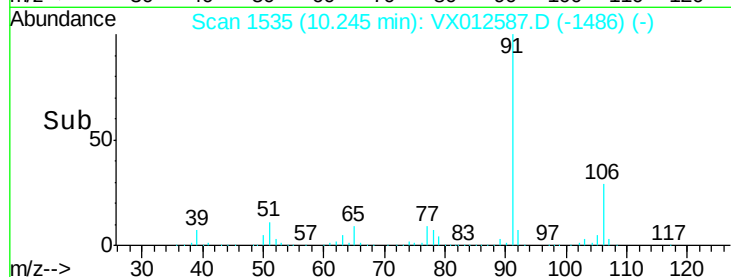
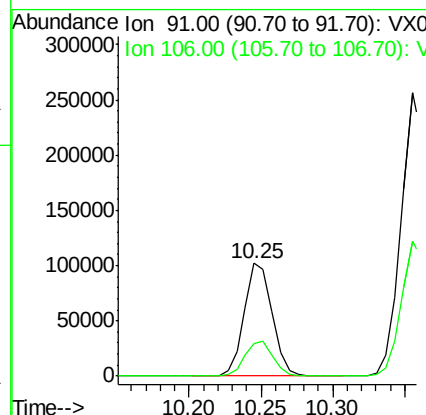
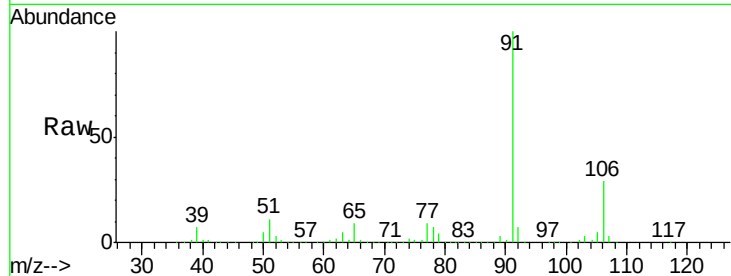




#67  
Ethyl Benzene  
Concen: 19.842 ug/l  
RT: 10.25 min Scan# 1535  
Delta R.T. 0.00 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

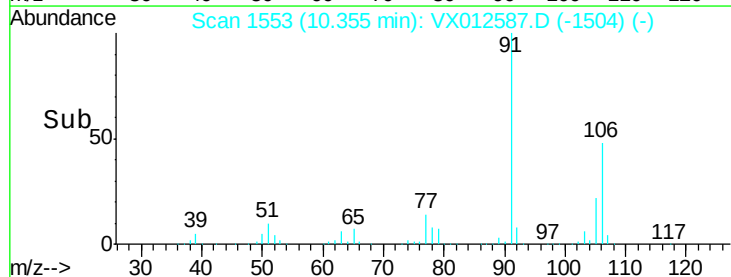
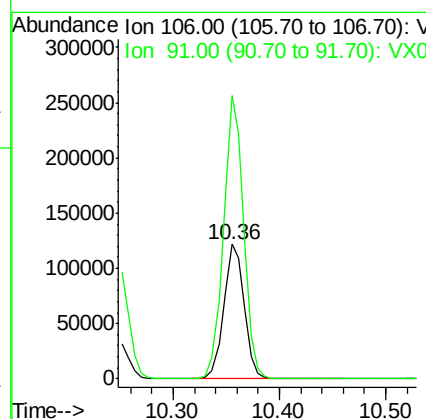
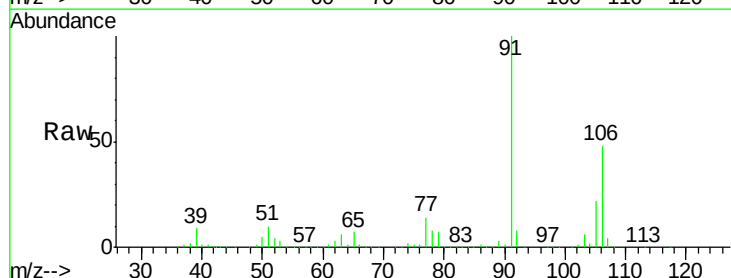
Instrument :  
MSVOA\_X  
ClientSampled :  
Z2-0161

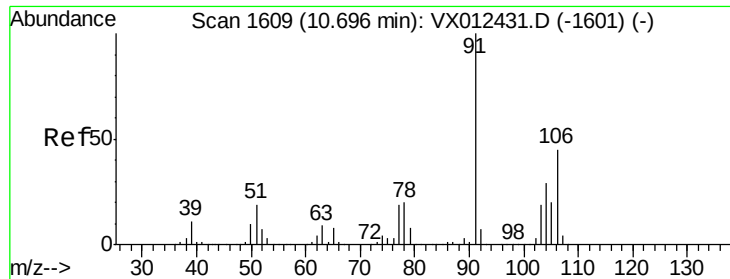
Tot Ion: 91 Resp: 137713  
Ion Ratio Lower Upper  
91 100  
106 28.9 24.6 37.0



#68  
m/p-Xylenes  
Concen: 64.190 ug/l  
RT: 10.36 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

Tgt Ion: 106 Resp: 162098  
Ion Ratio Lower Upper  
106 100  
91 205.8 166.6 250.0

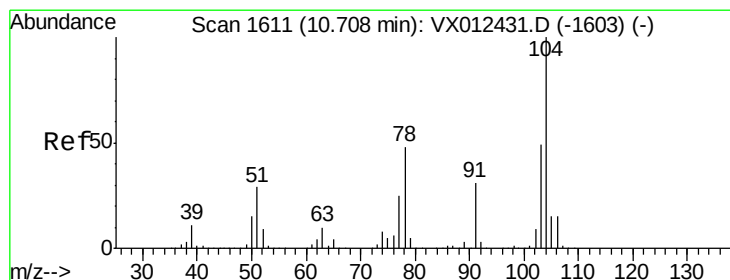
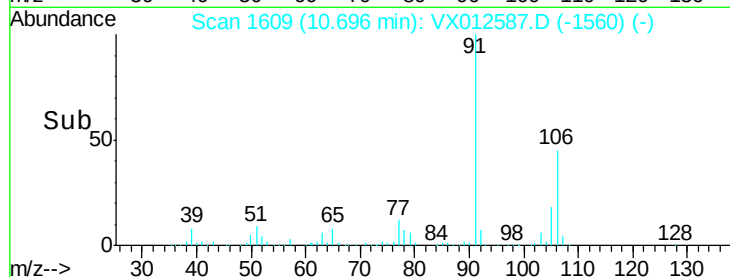
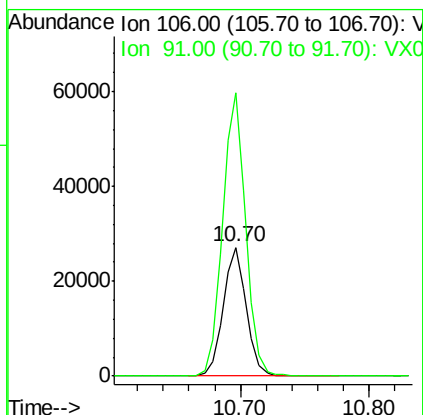
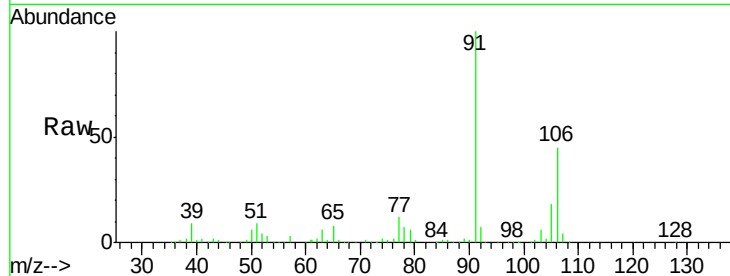




#69  
o-Xylene  
Concen: 13.231 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

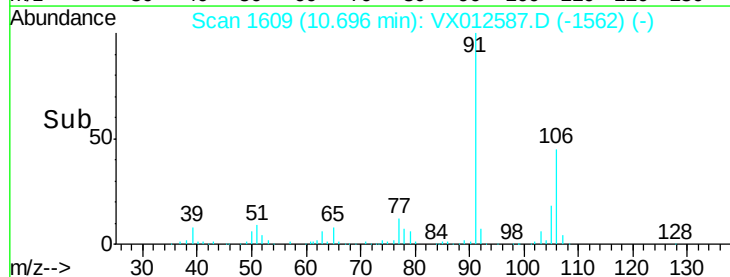
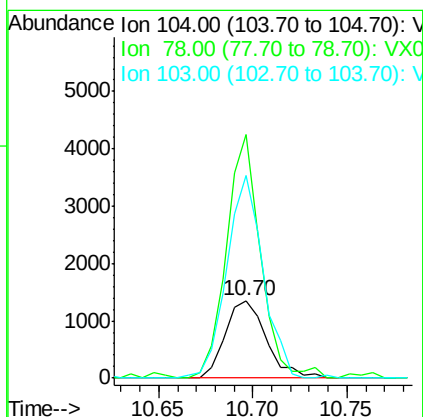
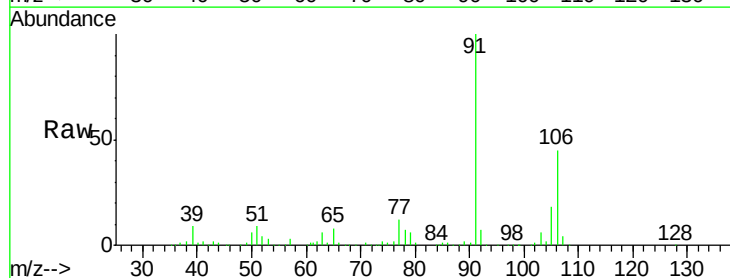
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z2-0161

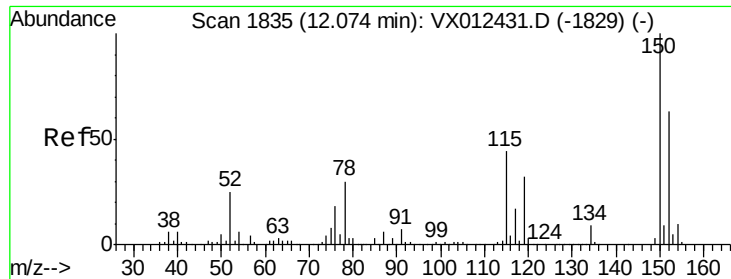
Tot Ion:106 Resp: 34362  
Ion Ratio Lower Upper  
106 100  
91 219.3 109.4 328.2



#70  
Styrene  
Concen: 0.443 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. -0.01 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

Tgt Ion:104 Resp: 2037  
Ion Ratio Lower Upper  
104 100  
78 262.4 43.4 65.2#  
103 232.4 43.3 64.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

Z2-0161

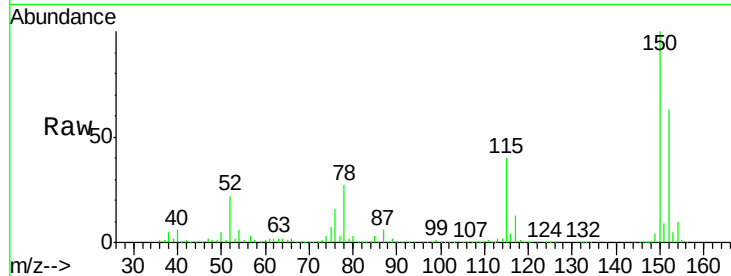
Tot Ion:152 Resp: 100992

Ion Ratio Lower Upper

152 100

115 61.6 44.1 132.3

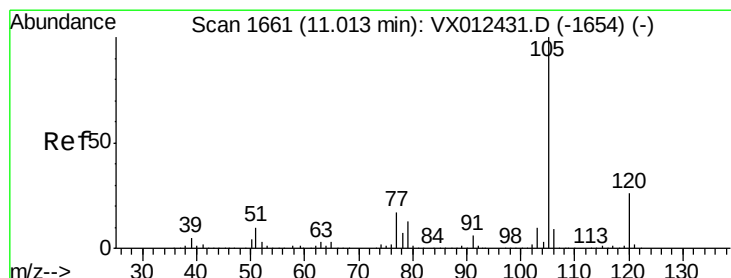
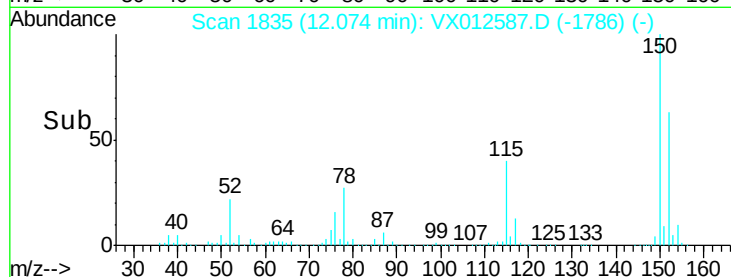
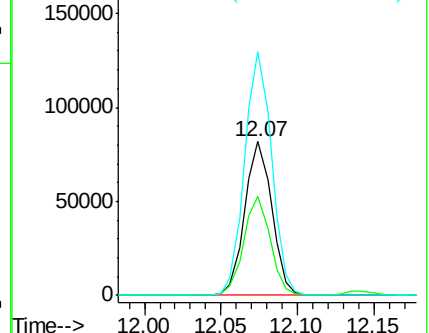
150 157.2 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 18.547 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX012587.D

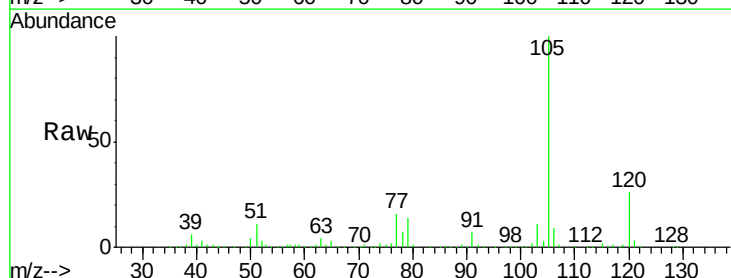
Acq: 21 Sep 2019 03:39

Tgt Ion:105 Resp: 117525

Ion Ratio Lower Upper

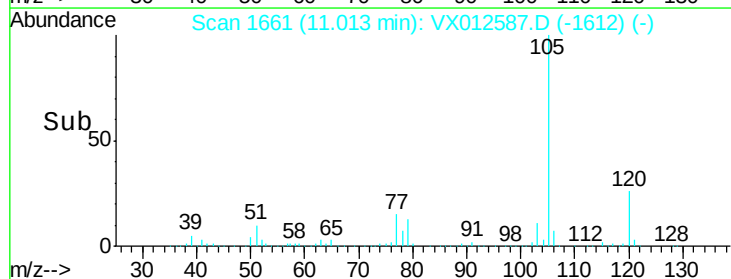
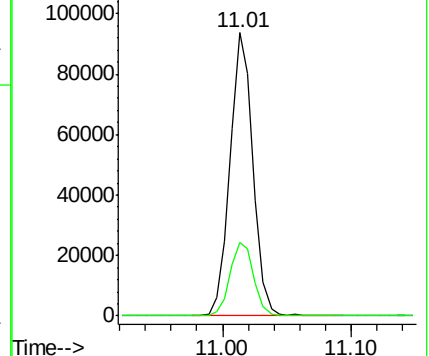
105 100

120 26.7 12.9 38.7

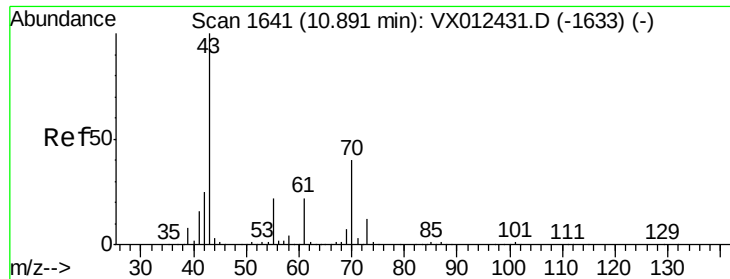


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V







#74

N-amvl acetate

Concen: 1.991 ug/l

RT: 10.94 min Scan# 1649

Delta R.T. 0.05 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

Z2-0161

Tot Ion: 43 Resp: 6791

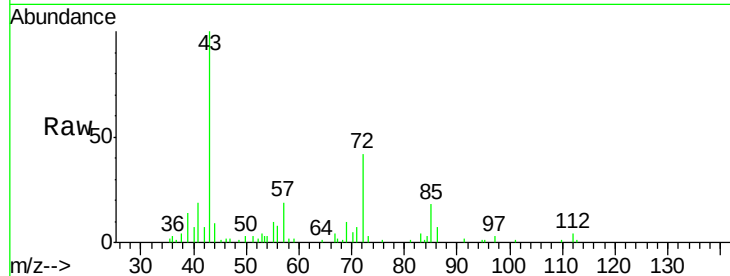
Ion Ratio Lower Upper

43 100

70 0.0 32.4 48.6#

55 21.4 18.2 27.4

61 0.0 18.5 27.7#

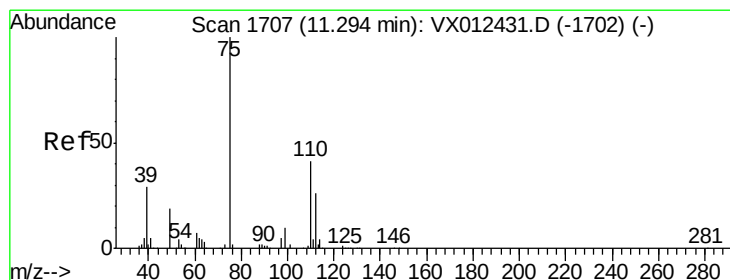
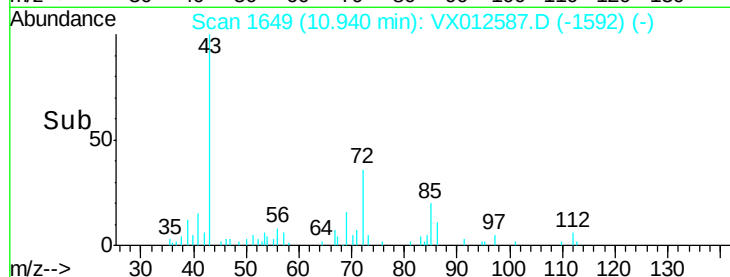
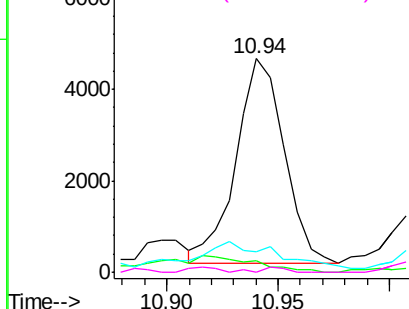


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 26.261 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012587.D

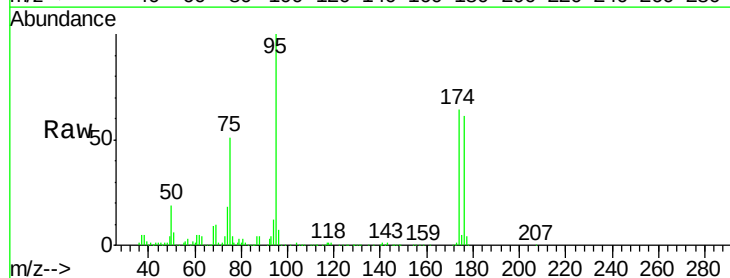
Acq: 21 Sep 2019 03:39

Tgt Ion: 75 Resp: 60921

Ion Ratio Lower Upper

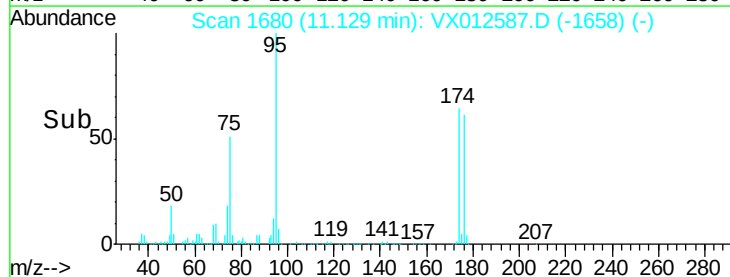
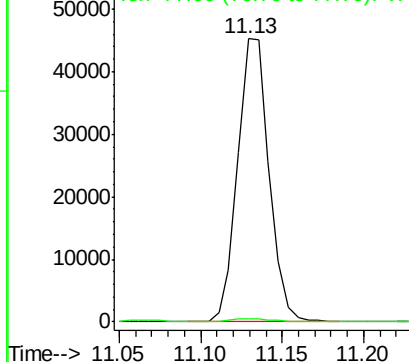
75 100

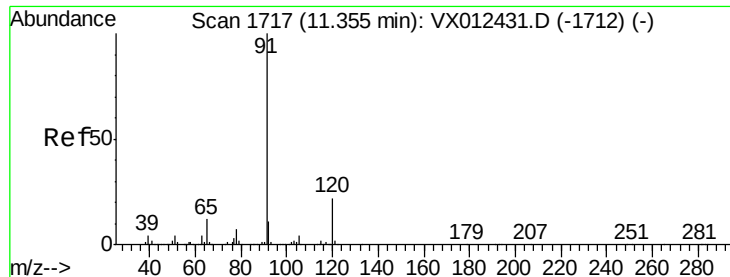
77 1.6 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 7.387 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

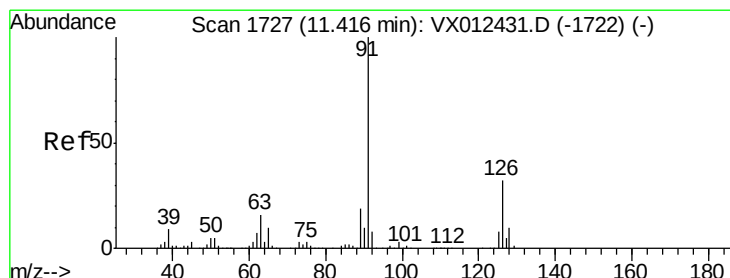
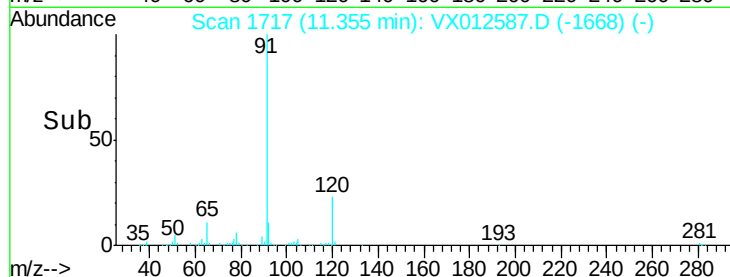
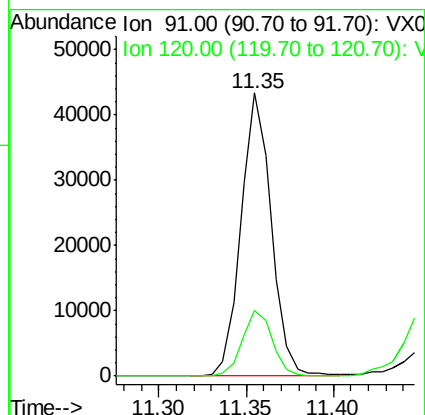
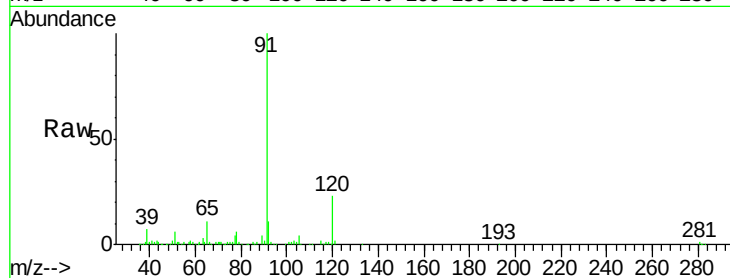
Z2-0161

Tot Ion: 91 Resp: 52168

Ion Ratio Lower Upper

91 100

120 22.9 11.3 33.8



#79

2-Chlorotoluene

Concen: 1.360 ug/l

RT: 11.45 min Scan# 1733

Delta R.T. 0.04 min

Lab File: VX012587.D

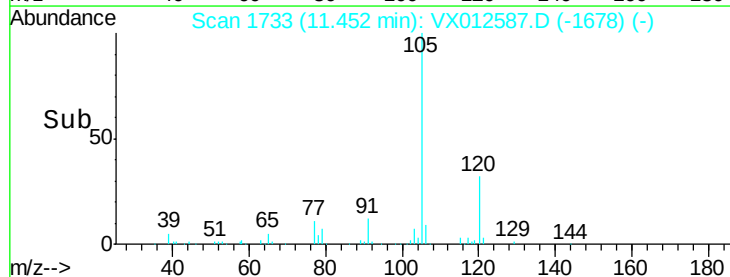
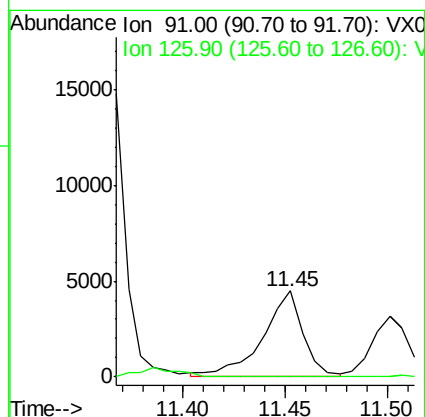
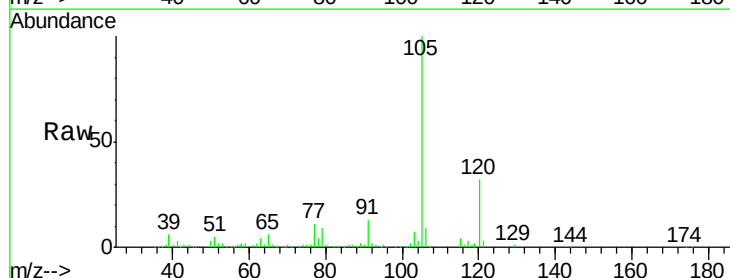
Acq: 21 Sep 2019 03:39

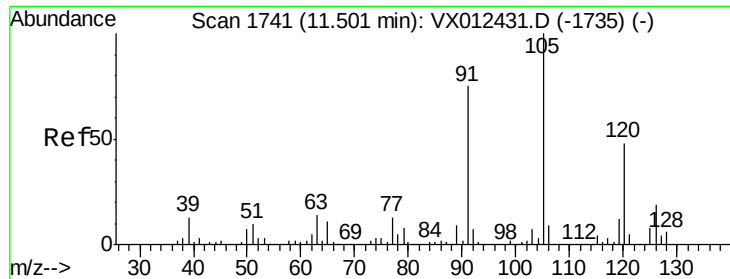
Tgt Ion: 91 Resp: 6248

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.4#

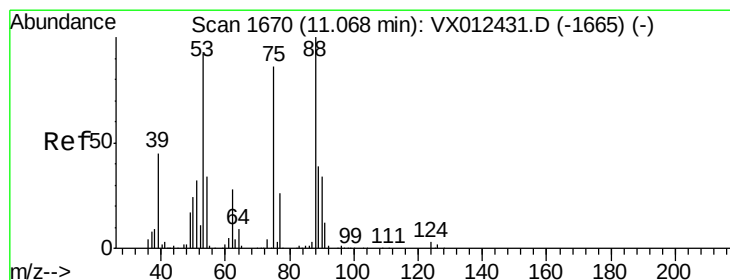
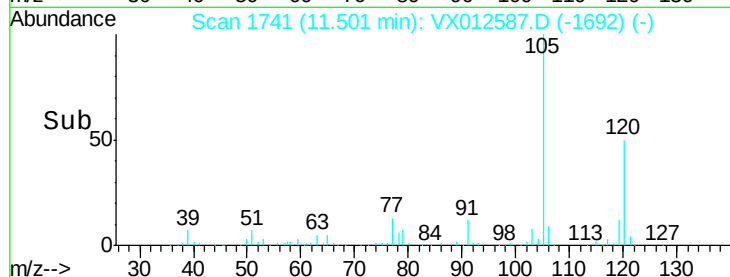
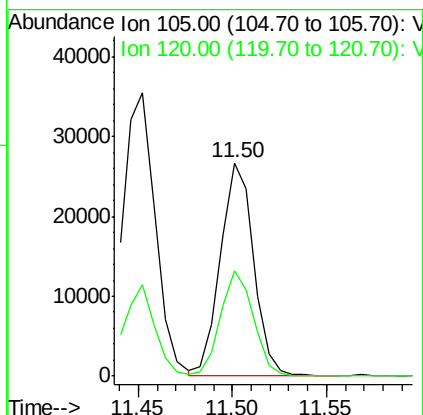
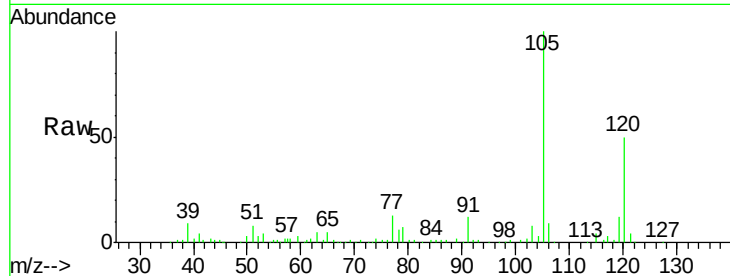




#80  
 1,3,5-Trimethylbenzene  
 Concen: 6.012 ug/l  
 RT: 11.50 min Scan# 1741  
 Delta R.T. 0.00 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

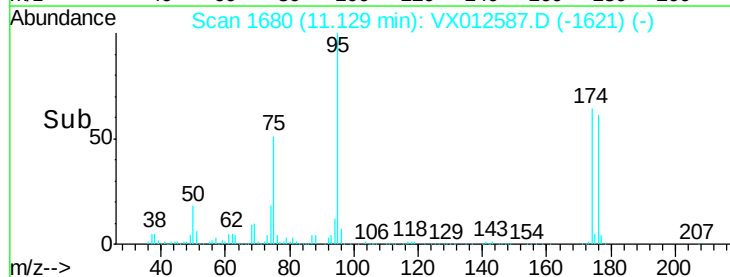
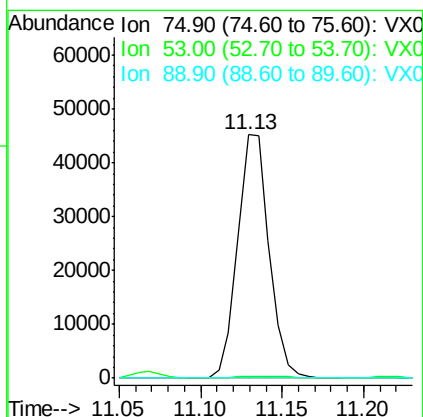
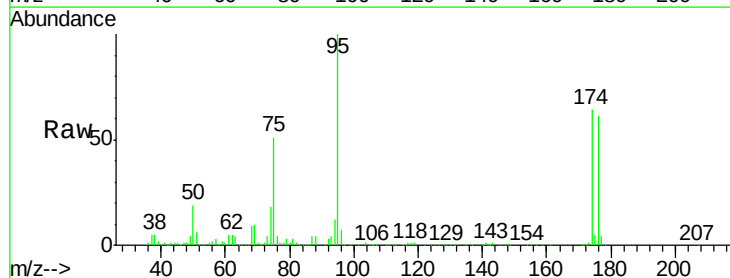
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 Z2-0161

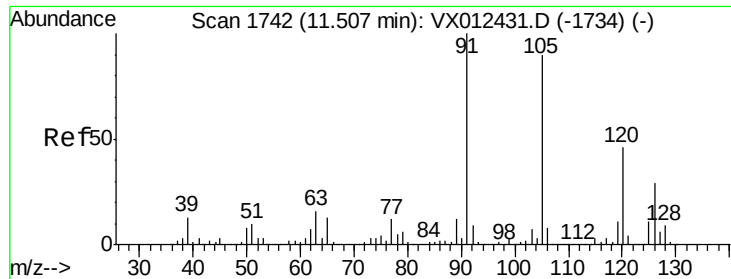
Tot Ion:105 Resp: 32491  
 Ion Ratio Lower Upper  
 105 100  
 120 49.4 24.3 72.8



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 70.727 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. 0.06 min  
 Lab File: VX012587.D  
 Acq: 21 Sep 2019 03:39

Tgt Ion: 75 Resp: 60921  
 Ion Ratio Lower Upper  
 75 100  
 53 1.4 83.6 125.4#  
 89 0.1 36.3 54.5#

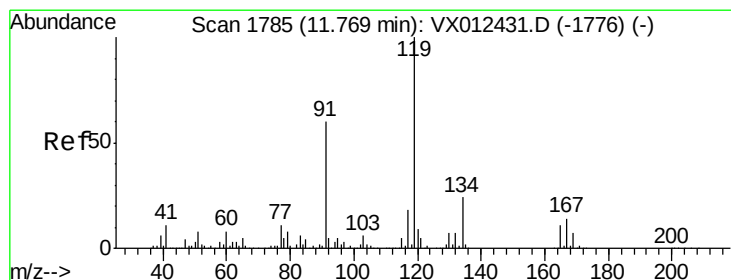
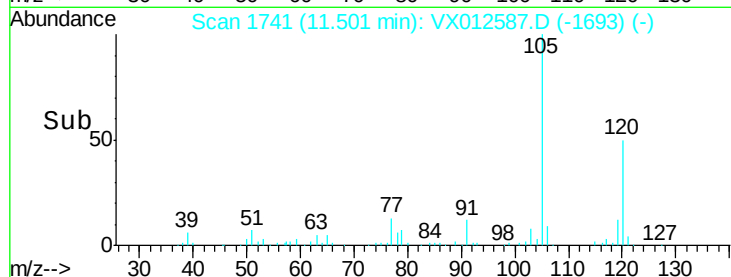
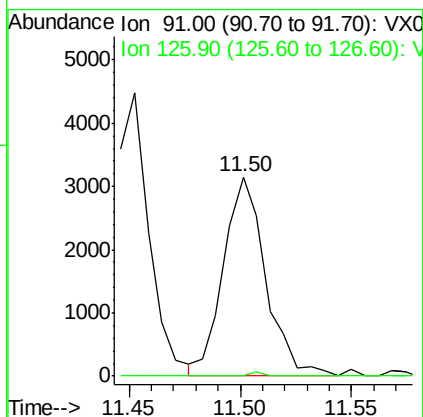
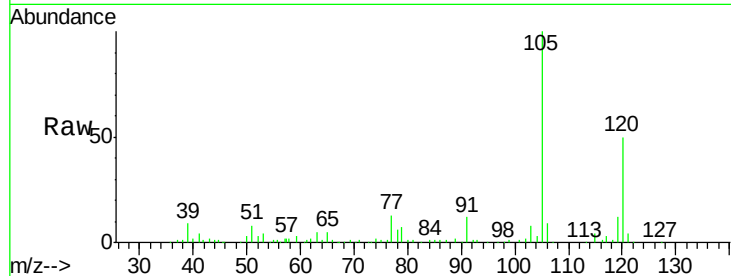




#82  
4-Chlorotoluene  
Concen: 0.787 ug/l  
RT: 11.50 min Scan# 1741  
Delta R.T. -0.01 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

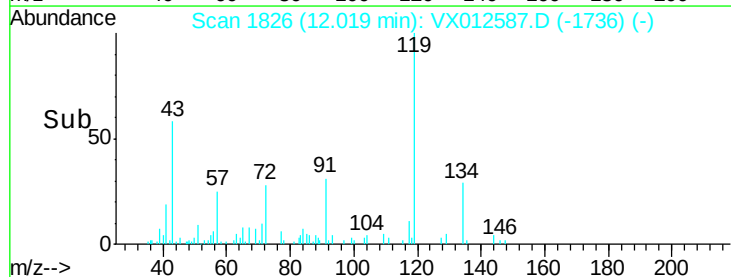
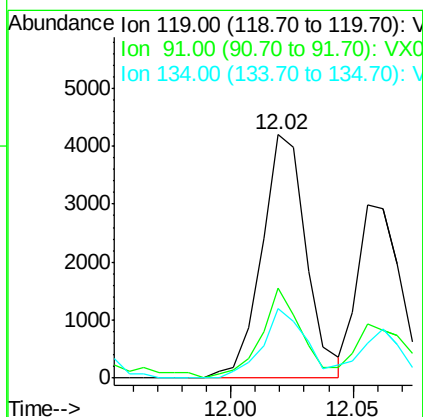
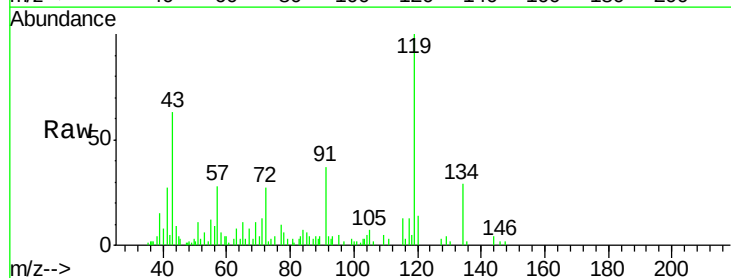
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z2-0161

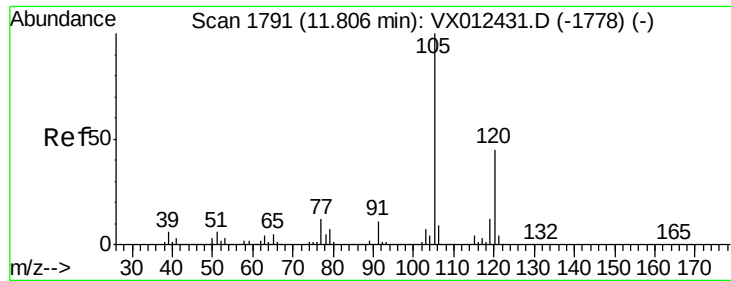
Tot Ion: 91 Resp: 4152  
Ion Ratio Lower Upper  
91 100  
126 0.5 14.4 43.0#



#83  
tert-Butylbenzene  
Concen: 0.917 ug/l  
RT: 12.02 min Scan# 1826  
Delta R.T. 0.25 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

Tgt Ion: 119 Resp: 5310  
Ion Ratio Lower Upper  
119 100  
91 32.8 30.0 90.0  
134 26.9 11.3 33.9





#84

1,2,4-Trimethylbenzene

Concen: 24.242 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX012587.D

Acq: 21 Sep 2019 03:39

Instrument :

MSVOA\_X

ClientSampleId :

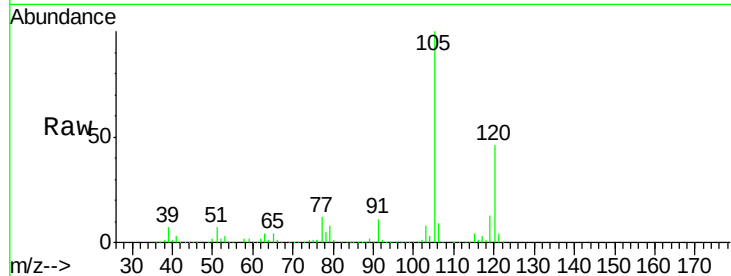
Z2-0161

Tot Ion:105 Resp: 134515

Ion Ratio Lower Upper

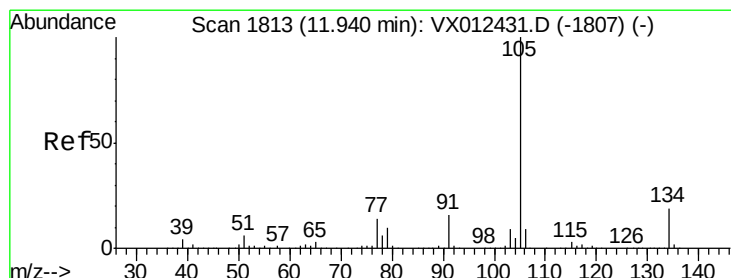
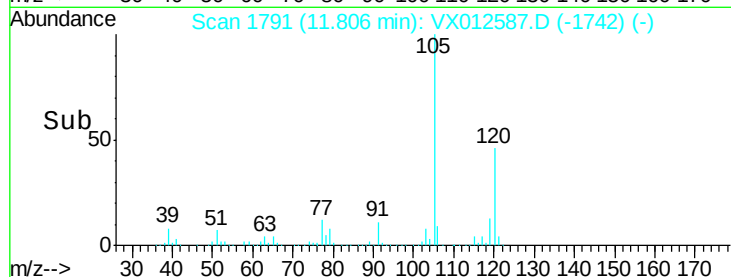
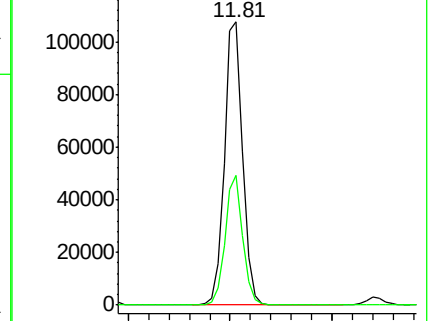
105 100

120 44.2 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 21.081 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.13 min

Lab File: VX012587.D

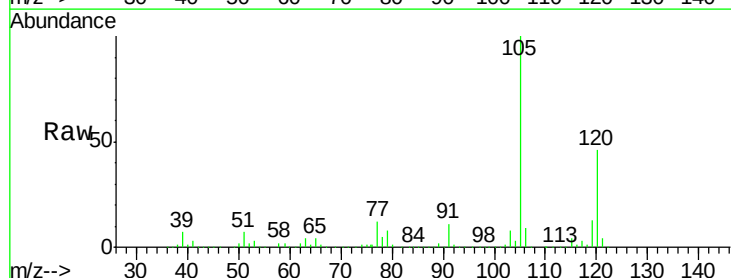
Acq: 21 Sep 2019 03:39

Tgt Ion:105 Resp: 134515

Ion Ratio Lower Upper

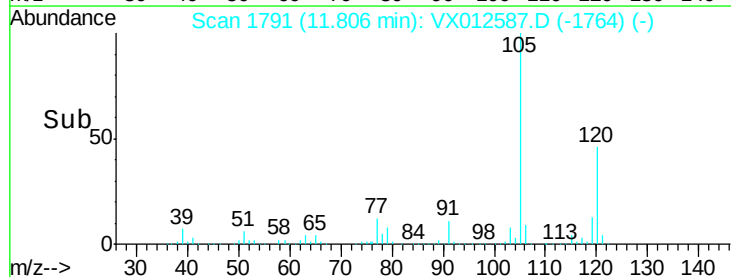
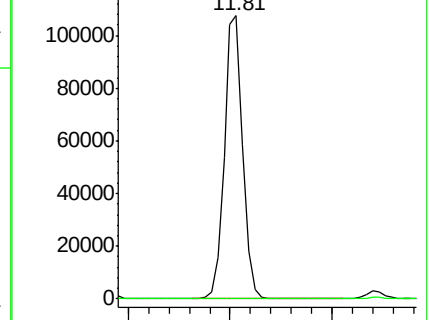
105 100

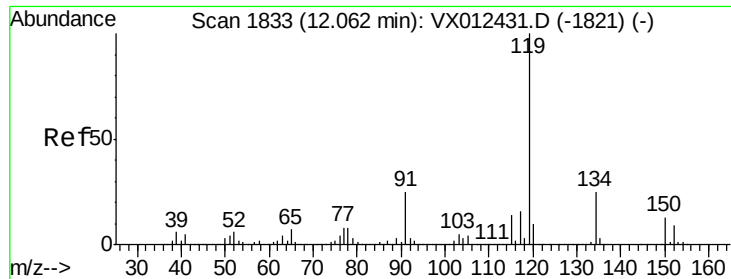
134 0.0 9.8 29.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

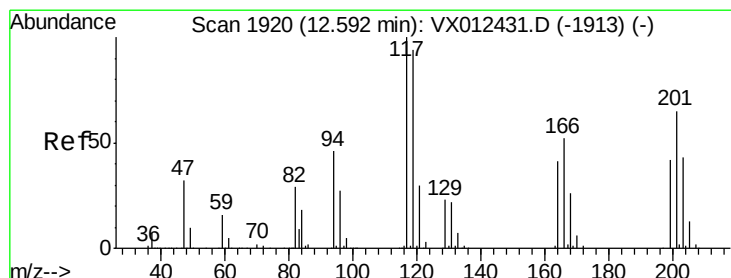
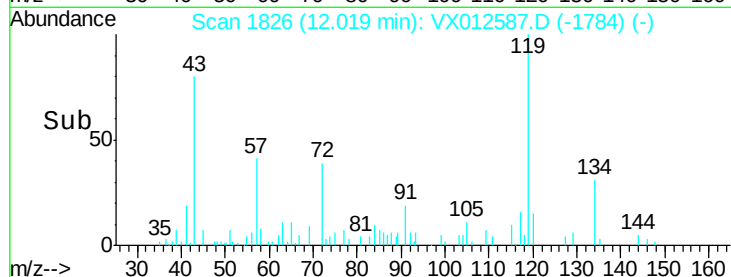
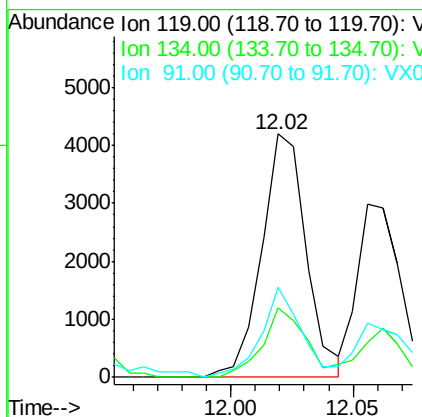
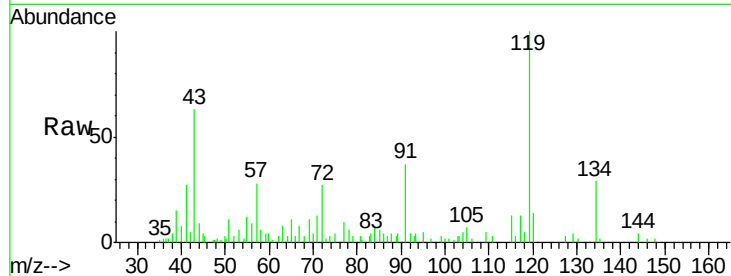




#86  
p-Isopropyltoluene  
Concen: 0.906 ug/l  
RT: 12.02 min Scan# 1826  
Delta R.T. -0.04 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

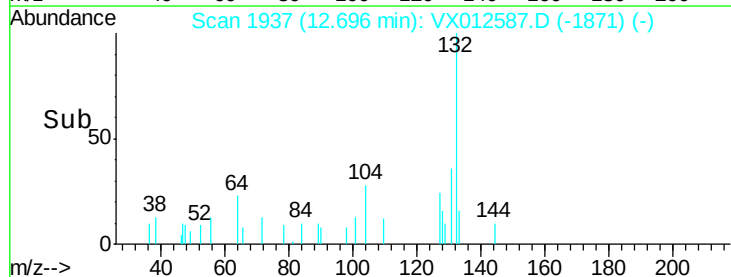
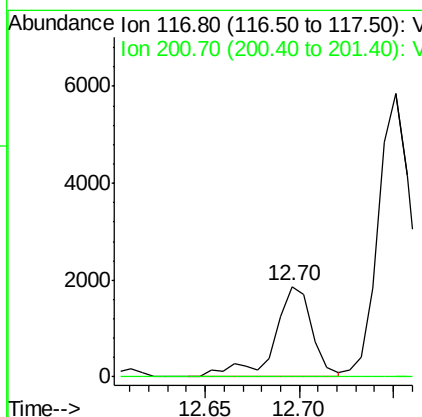
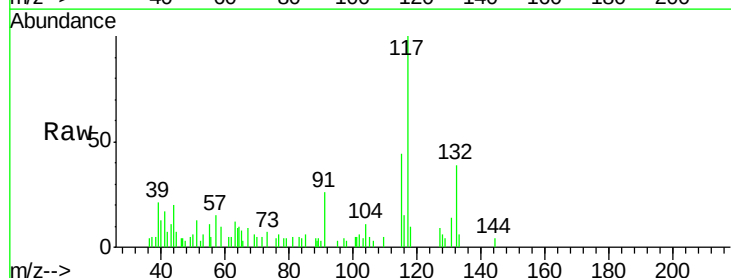
Instrument :  
MSVOA\_X  
ClientSampled :  
Z2-0161

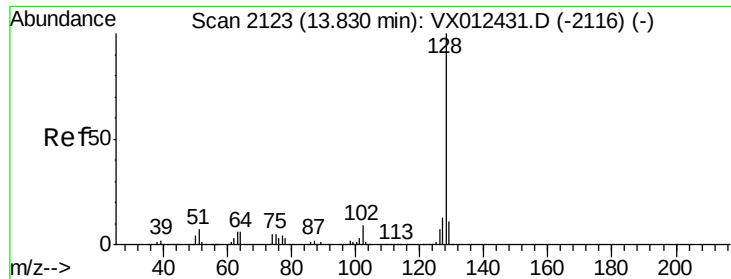
Tot Ion:119 Resp: 5310  
Ion Ratio Lower Upper  
119 100  
134 28.4 12.7 38.1  
91 32.8 12.8 38.4



#90  
Hexachloroethane  
Concen: 2.435 ug/l  
RT: 12.70 min Scan# 1937  
Delta R.T. 0.10 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

Tgt Ion:117 Resp: 2616  
Ion Ratio Lower Upper  
117 100  
201 0.0 33.3 99.8#

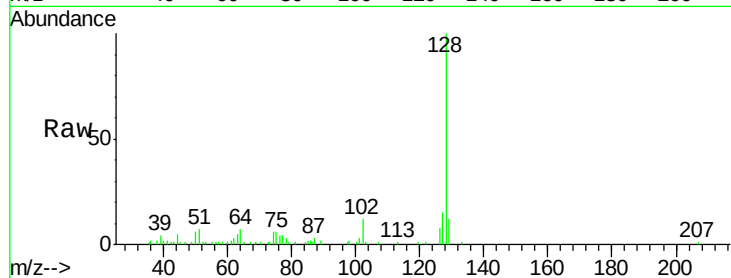




#95  
Naphthalene  
Concen: 1.766 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX012587.D  
Acq: 21 Sep 2019 03:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z2-0161

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 15.9  | 10.2  | 15.4# |
| 129     | 12.6  | 8.8   | 13.2  |



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

