

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX120319\  
 Data File : VX013733.D  
 Acq On : 03 Dec 2019 18:31  
 Operator : JC/SP  
 Sample : K5984-03MSD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S39-0191MSD

Quant Time: Dec 04 00:39:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 639292   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 994465   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 898557   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 447207   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 360213   | 48.54 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.08% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 301437   | 49.03 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.06% |      |
| 50) Toluene-d8            | 8.71   | 98  | 1137085  | 47.47 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.94% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 409064   | 47.36 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.72% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 346829  | 48.741  | ug/l | 97     |
| 3) Chloromethane              | 1.32 | 50  | 370606  | 46.417  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 457101  | 50.865  | ug/l | 99     |
| 5) Bromomethane               | 1.63 | 94  | 236137  | 39.127  | ug/l | 99     |
| 6) Chloroethane               | 1.71 | 64  | 243900  | 47.695  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 488468  | 48.951  | ug/l | 98     |
| 8) Diethyl Ether              | 2.18 | 74  | 223840  | 49.583  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 290026  | 47.583  | ug/l | 98     |
| 10) Methyl Iodide             | 2.50 | 142 | 313129  | 42.470  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 401732  | 219.325 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 299543  | 49.235  | ug/l | 99     |
| 13) Acrolein                  | 2.28 | 56  | 272450  | 223.075 | ug/l | 100    |
| 14) Allyl chloride            | 2.72 | 41  | 540688  | 48.972  | ug/l | 99     |
| 15) Acrylonitrile             | 3.13 | 53  | 937273  | 247.896 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 784688  | 214.178 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.56 | 76  | 805989  | 46.472  | ug/l | 100    |
| 18) Methyl Acetate            | 2.76 | 43  | 516898  | 50.666  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 1016012 | 50.411  | ug/l | 100    |
| 20) Methylene Chloride        | 2.85 | 84  | 339491  | 48.233  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 321503  | 48.508  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.84 | 45  | 1081967 | 50.893  | ug/l | 97     |
| 23) Vinyl Acetate             | 3.80 | 43  | 4334078 | 245.061 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 585239  | 50.357  | ug/l | 99     |
| 25) 2-Butanone                | 4.66 | 43  | 1311725 | 240.906 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 427566  | 44.466  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 371091  | 48.755  | ug/l | 98     |
| 28) Bromochloromethane        | 5.00 | 49  | 247910  | 53.980  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.11 | 42  | 843442  | 251.275 | ug/l | 100    |
| 30) Chloroform                | 5.20 | 83  | 569120  | 48.286  | ug/l | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 526675  | 48.047  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 490422  | 49.792  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 431006  | 47.745  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.82 | 43  | 496058  | 48.983  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 417960  | 50.212  | ug/l | 99     |

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 ClientSampleId :  
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Quant Time: Dec 04 00:39:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 522604   | 46.835  | ug/l  | 98       |
| 40) Benzene                    | 6.14  | 78   | 1327387  | 48.279  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.03  | 41   | 282470   | 50.859  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 465013   | 49.593  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 804201   | 48.235  | ug/l  | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 359007   | 47.578  | ug/l  | 95       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 343912   | 49.995  | ug/l  | 99       |
| 46) Dibromomethane             | 7.65  | 93   | 225580   | 48.283  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 452197   | 51.199  | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.76  | 41   | 415848   | 51.334  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 155318   | 856.562 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 2605731  | 248.462 | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 843486   | 49.383  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 497166   | 49.453  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 548975   | 49.982  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 344036   | 49.983  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 555447   | 50.193  | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 577251   | 48.655  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.48  | 63   | 972      | 0.224   | ug/l  | 90       |
| 59) 2-Hexanone                 | 9.49  | 43   | 1984620  | 242.636 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 364552   | 51.035  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 361465   | 49.170  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.33  | 164  | 393548   | 58.731  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 900719   | 48.281  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 337897   | 50.439  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 1578399  | 49.236  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.35 | 106  | 1204691  | 98.153  | ug/l  | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 590588   | 49.337  | ug/l  | 99       |
| 70) Styrene                    | 10.71 | 104  | 1016986  | 50.505  | ug/l  | 99       |
| 71) Bromoform                  | 10.85 | 173  | 282362   | 50.940  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.01 | 105  | 1560900  | 49.758  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 714861   | 49.746  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 549705   | 50.529  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 617050   | 61.346  | ug/l  | 88       |
| 77) Bromobenzene               | 11.25 | 156  | 410169   | 48.399  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 1763649  | 50.363  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 1038200  | 49.423  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 1334413  | 51.902  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 177617   | 48.310  | ug/l  | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 1184808  | 48.697  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 1342959  | 51.397  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 1405433  | 53.861  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1541069  | 51.635  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1398766  | 50.379  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 714869   | 48.391  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 709104   | 47.126  | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 1190939  | 50.291  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 258049   | 51.418  | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 715355   | 49.010  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 118958   | 50.213  | ug/l  | 98       |

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ALS Vial : 19 Sample Multiplier: 1

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S39-0191MSD

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Quant Title : SW846 8260  
QLast Update : Tue Nov 26 15:53:00 2019  
Response via : Initial Calibration

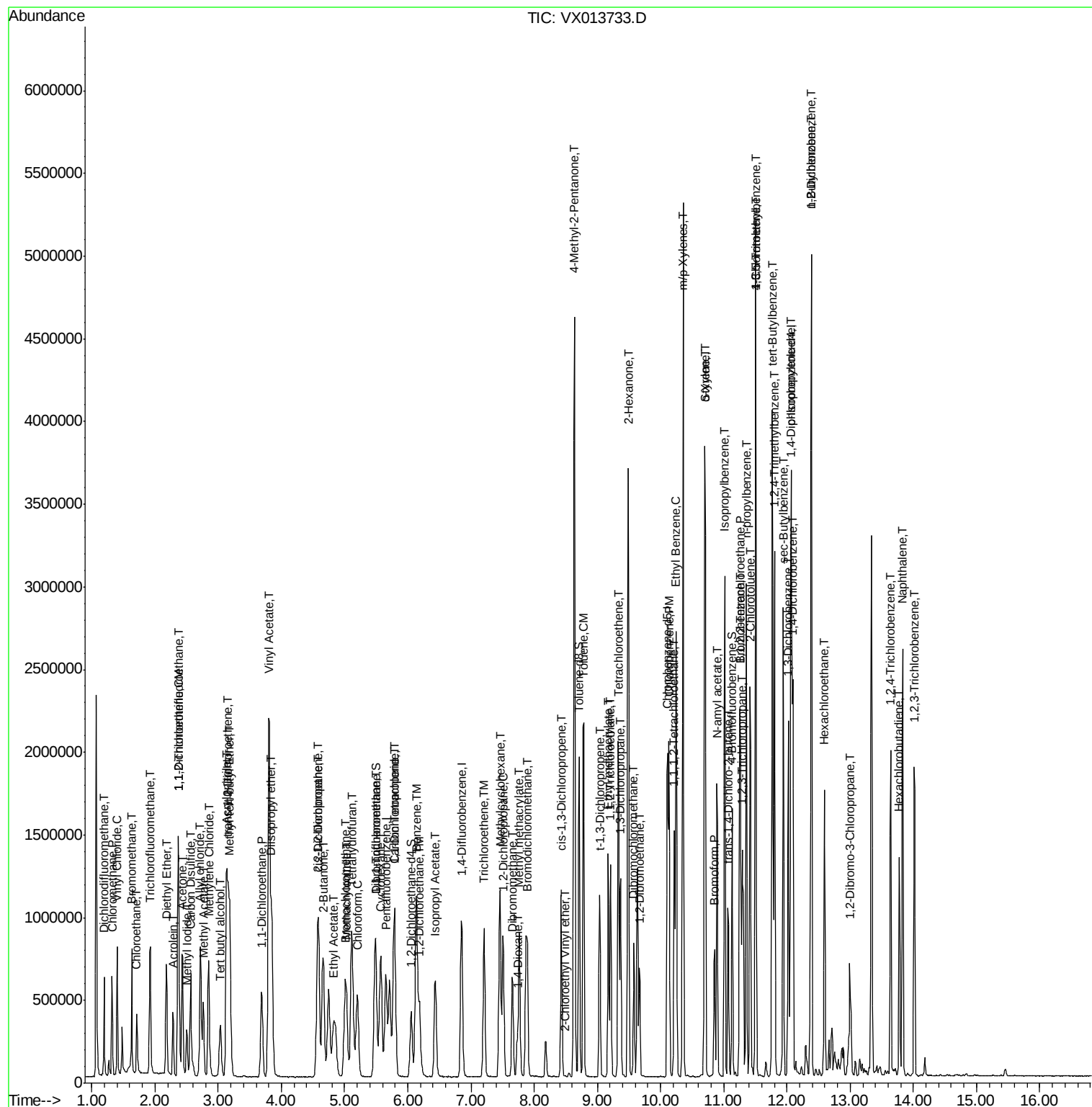
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 484650   | 47.644 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 220021   | 45.025 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 1580650  | 52.177 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 487800   | 48.432 | ug/l  | 99       |

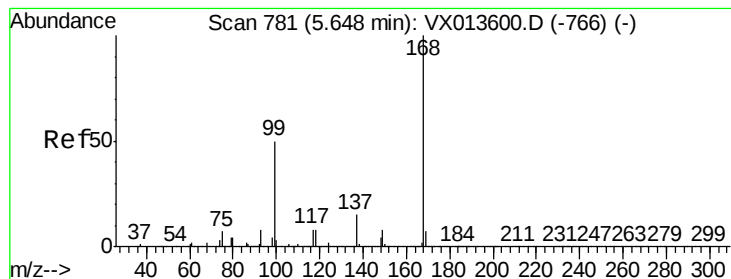
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Data File : VX013733.D  
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Quant Time: Dec 04 00:39:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 26 15:53:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

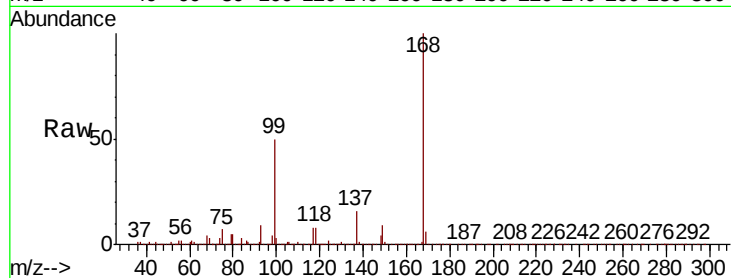
S39-0191MSD

Tot Ion:168 Resp: 639292

Ion Ratio Lower Upper

168 100

99 49.4 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

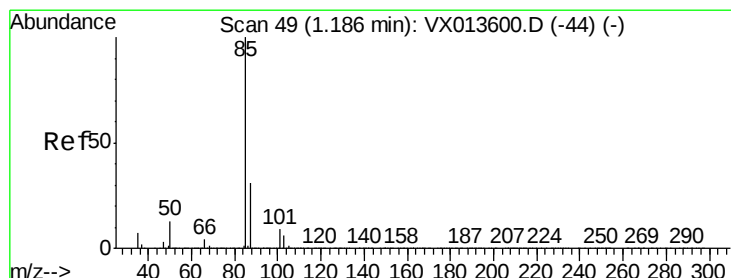
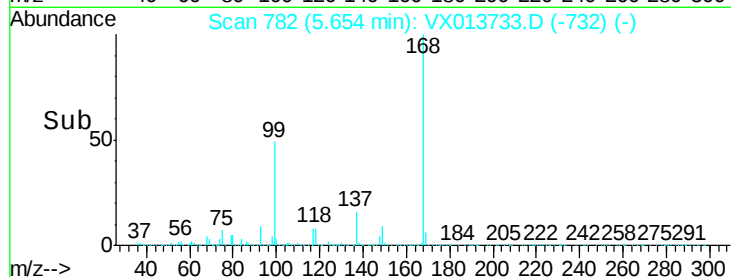
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 48.741 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013733.D

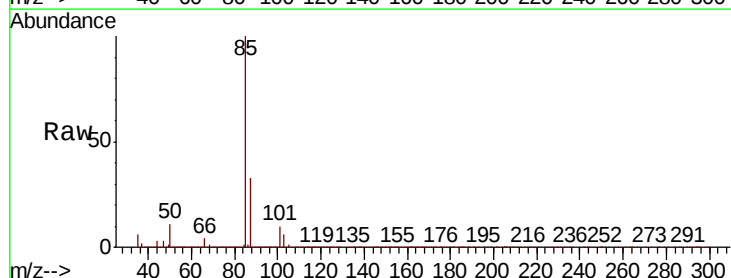
Acq: 03 Dec 2019 18:31

Tgt Ion: 85 Resp: 346829

Ion Ratio Lower Upper

85 100

87 32.9 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

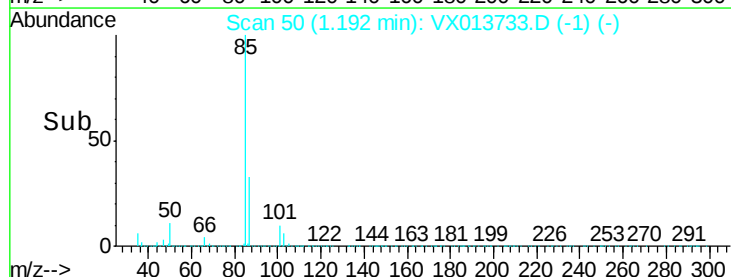
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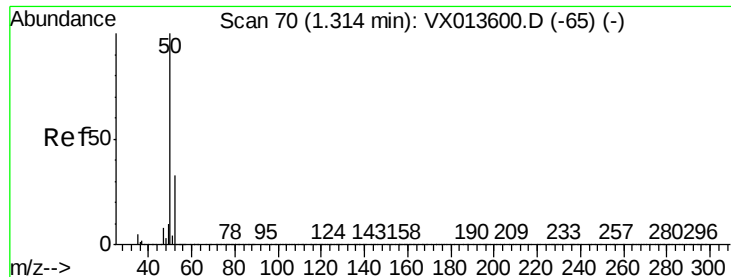
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Time-->





#3

Chloromethane

Concen: 46.417 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

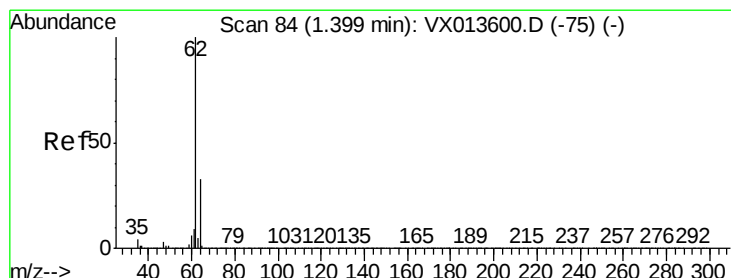
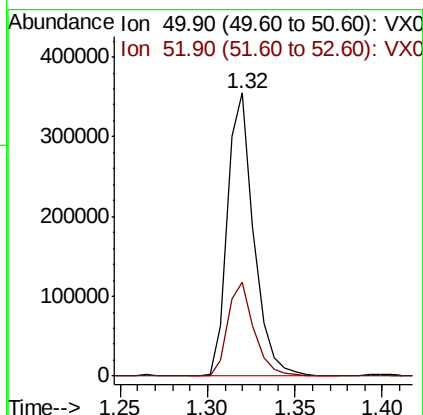
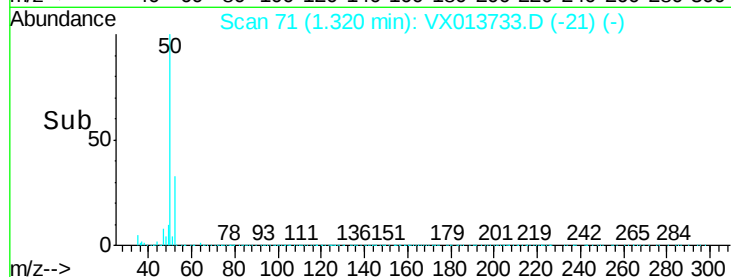
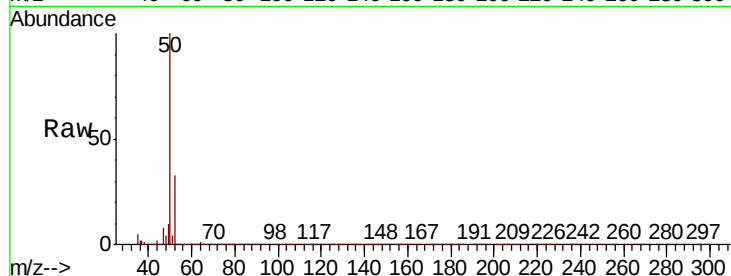
S39-0191MSD

Tot Ion: 50 Resp: 370606

Ion Ratio Lower Upper

50 100

52 33.2 26.0 39.0



#4

Vinyl Chloride

Concen: 50.865 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013733.D

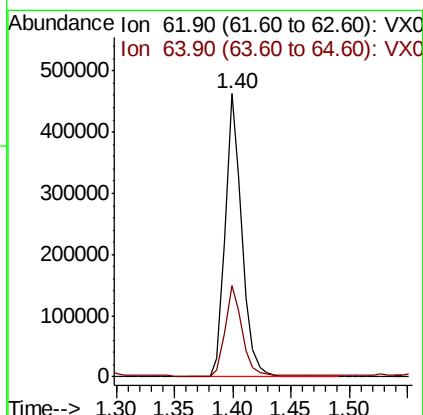
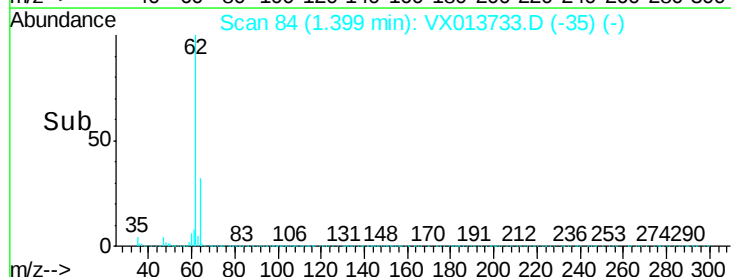
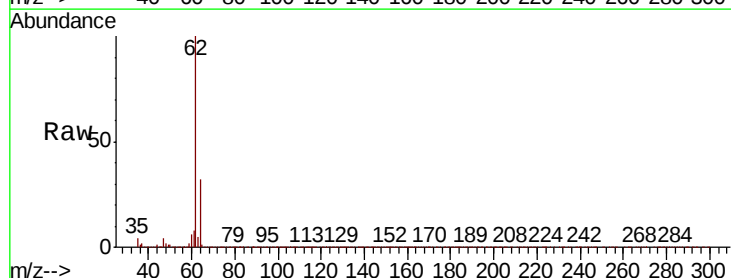
Acq: 03 Dec 2019 18:31

Tgt Ion: 62 Resp: 457101

Ion Ratio Lower Upper

62 100

64 31.8 26.0 39.0





#5

Bromomethane

Concen: 39.127 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

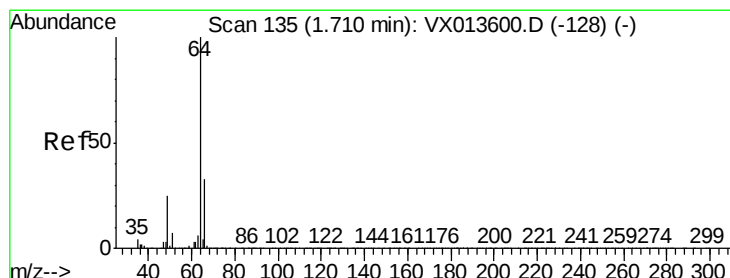
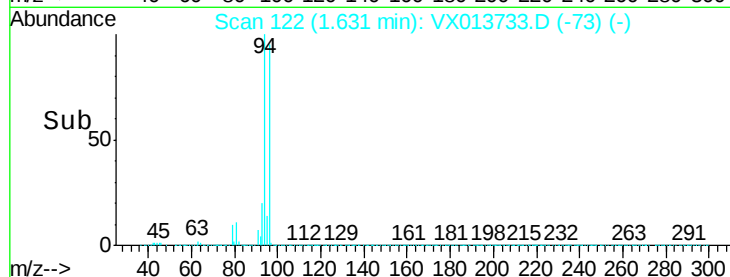
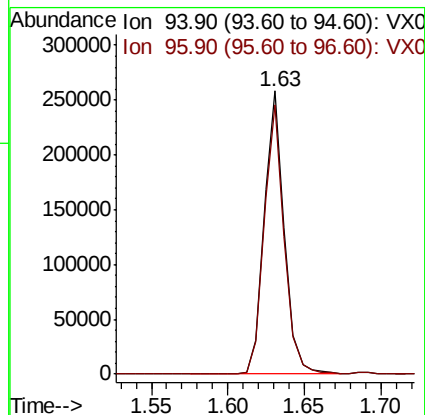
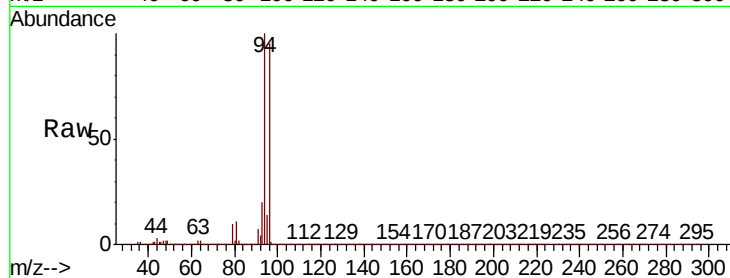
S39-0191MSD

Tot Ion: 94 Resp: 236137

Ion Ratio Lower Upper

94 100

96 95.3 77.0 115.4



#6

Chloroethane

Concen: 47.695 ug/l

RT: 1.71 min Scan# 135

Delta R.T. -0.00 min

Lab File: VX013733.D

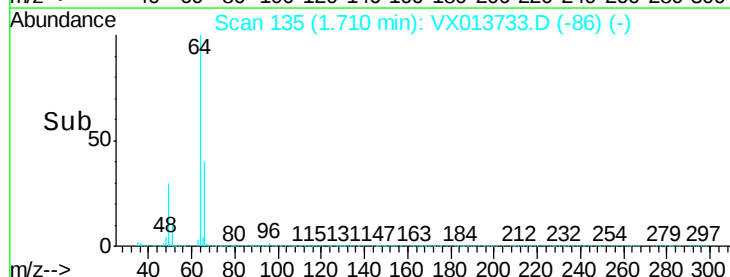
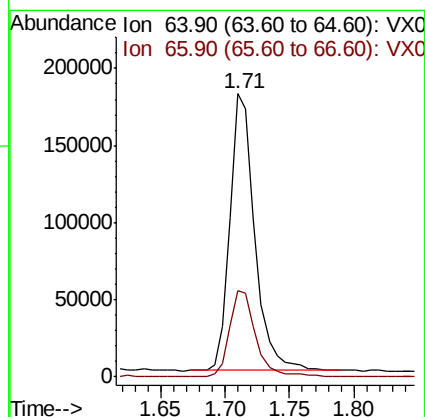
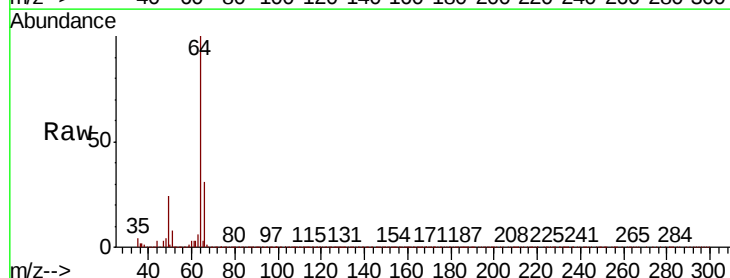
Acq: 03 Dec 2019 18:31

Tgt Ion: 64 Resp: 243900

Ion Ratio Lower Upper

64 100

66 31.0 26.7 40.1



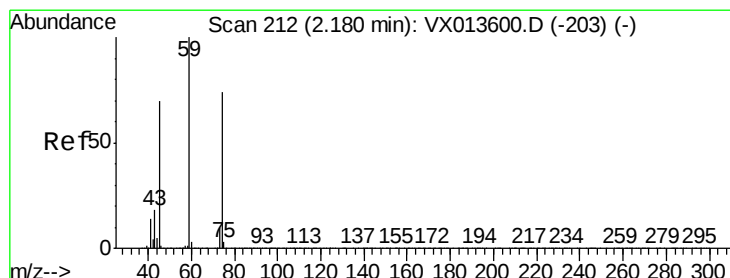
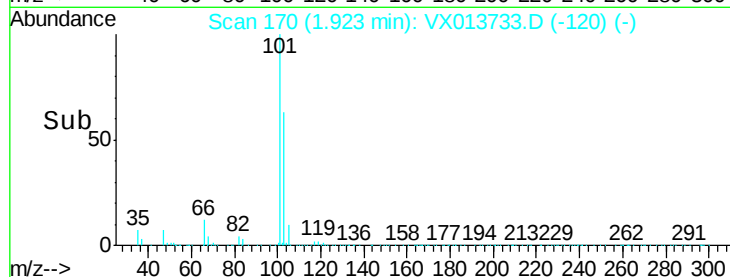
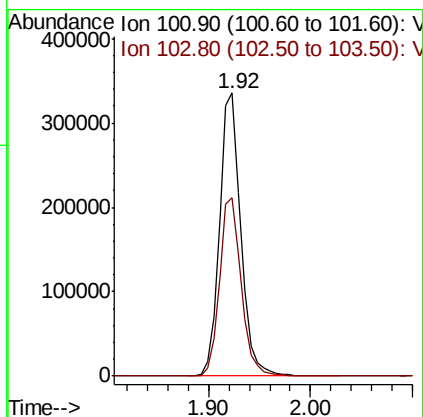
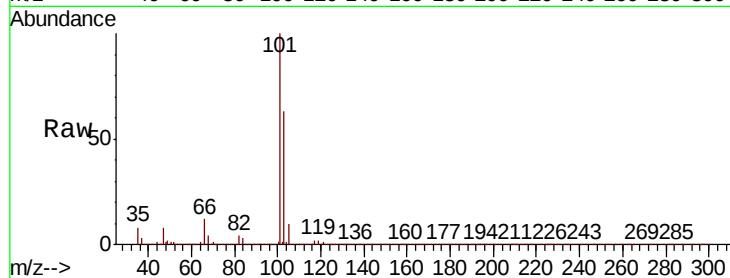


#7

Trichlorofluoromethane  
Concen: 48.951 ug/l  
RT: 1.92 min Scan# 170  
Delta R.T. 0.01 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

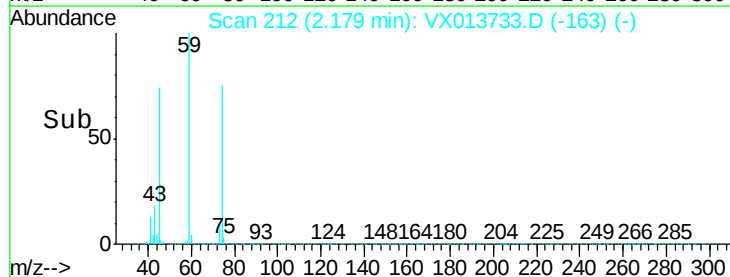
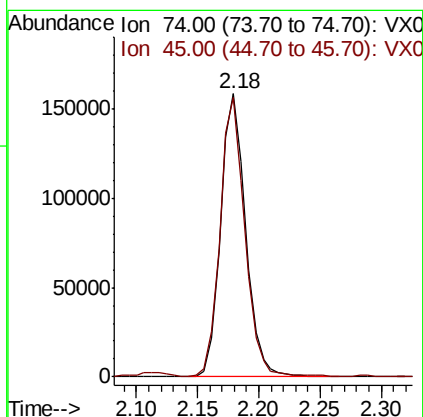
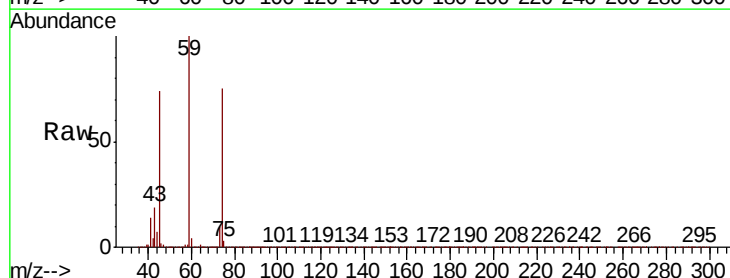
Tot Ion:101 Resp: 488468  
Ion Ratio Lower Upper  
101 100  
103 63.1 51.8 77.6

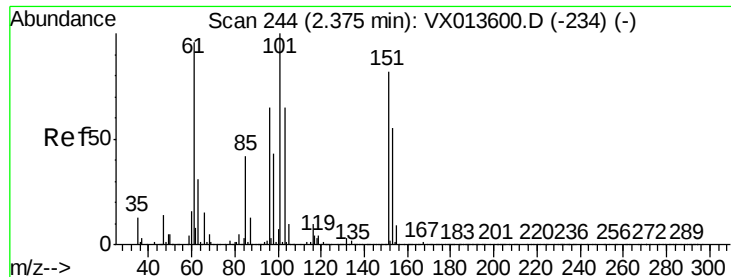


#8

Diethyl Ether  
Concen: 49.583 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 74 Resp: 223840  
Ion Ratio Lower Upper  
74 100  
45 97.6 48.9 146.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.583 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

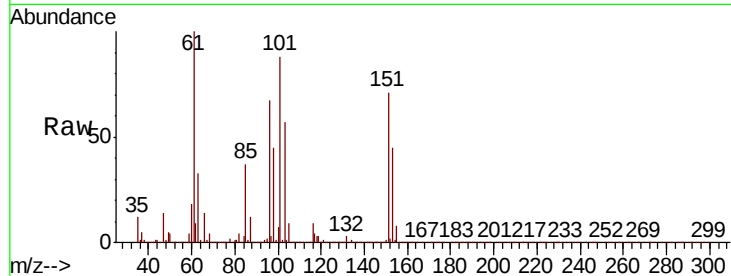
Tot Ion:101 Resp: 290026

Ion Ratio Lower Upper

101 100

85 41.9 33.9 50.9

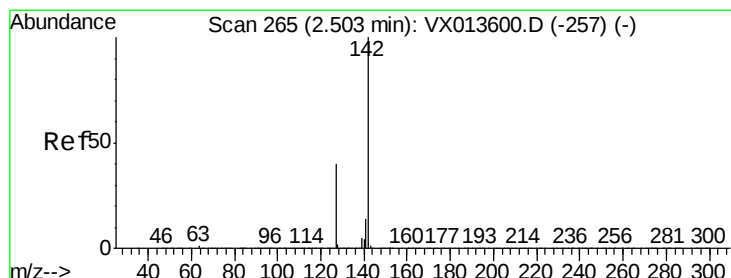
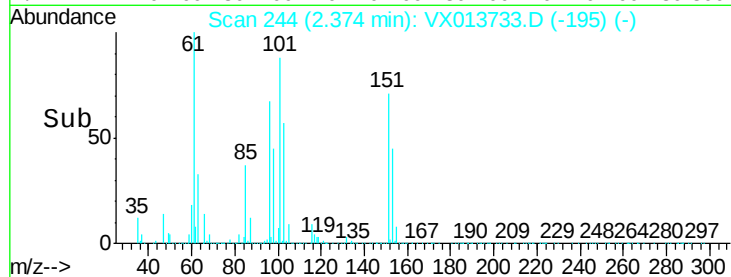
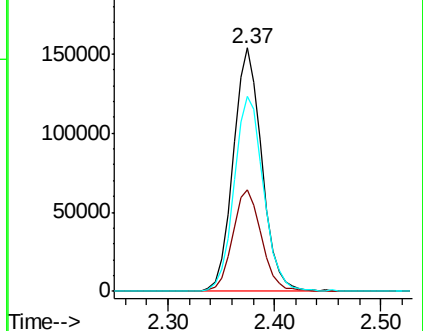
151 82.5 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 42.470 ug/l

RT: 2.50 min Scan# 265

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

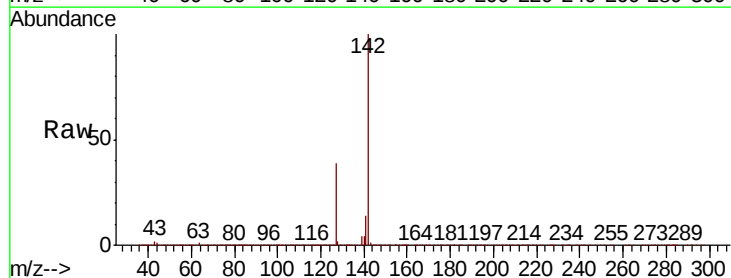
Tgt Ion:142 Resp: 313129

Ion Ratio Lower Upper

142 100

127 39.3 31.0 46.4

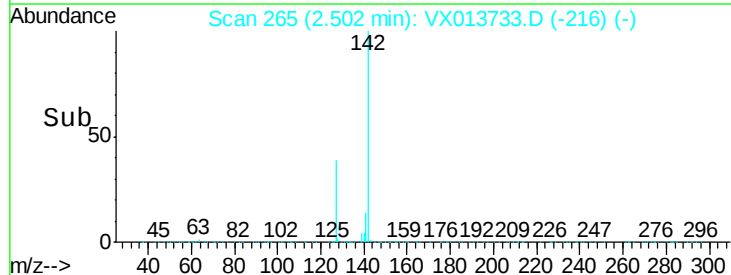
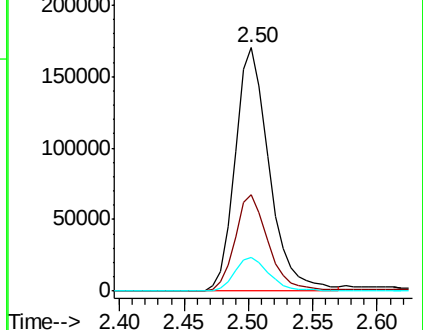
141 14.0 11.6 17.4

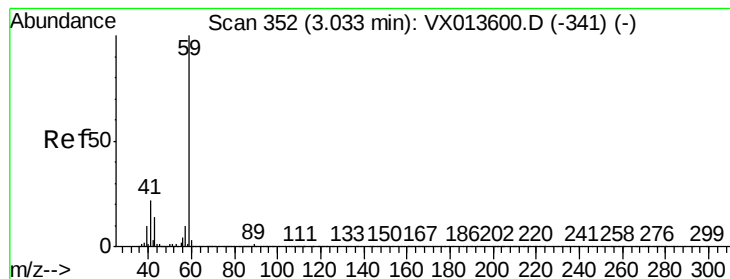


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



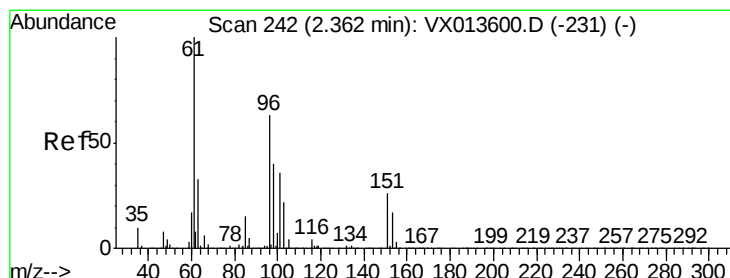
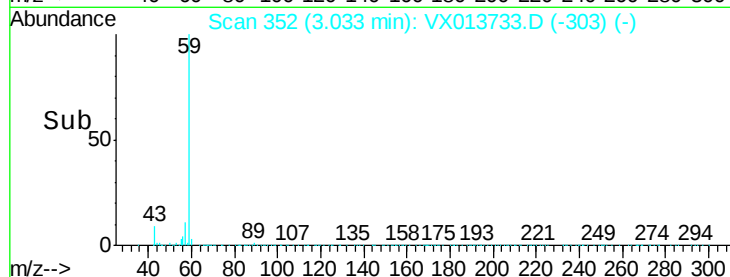
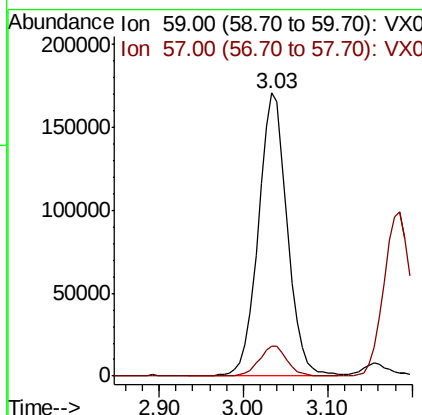
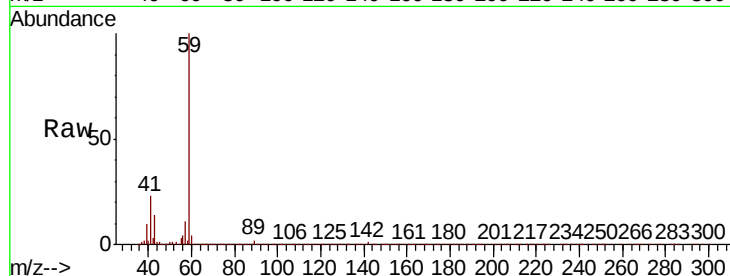


#11

Tert butyl alcohol  
Concen: 219.325 ug/l  
RT: 3.03 min Scan# 352  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

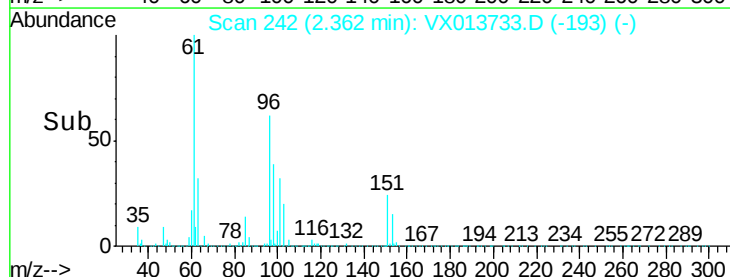
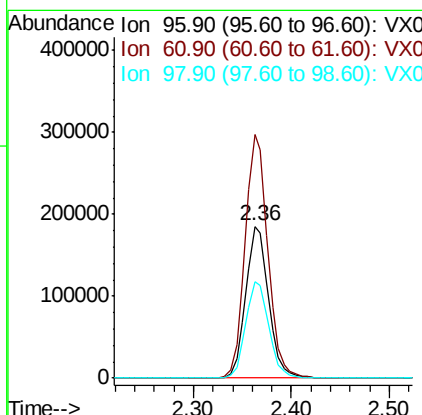
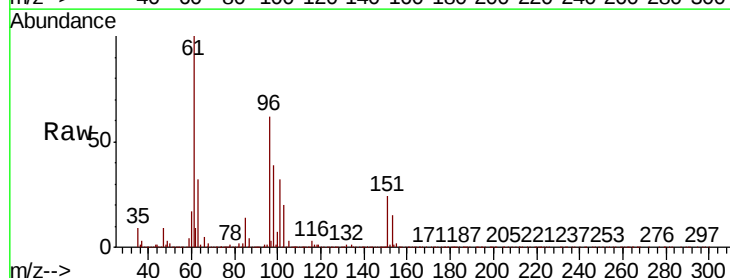
Tot Ion: 59 Resp: 401732  
Ion Ratio Lower Upper  
59 100  
57 10.3 7.8 11.6

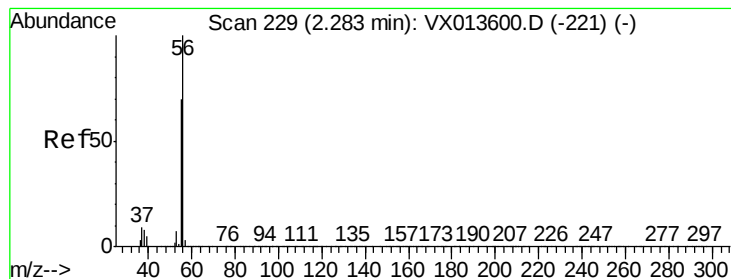


#12

1,1-Dichloroethene  
Concen: 49.235 ug/l  
RT: 2.36 min Scan# 242  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 96 Resp: 299543  
Ion Ratio Lower Upper  
96 100  
61 160.6 126.6 190.0  
98 63.4 50.6 76.0





#13

Acrolein

Concen: 223.075 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

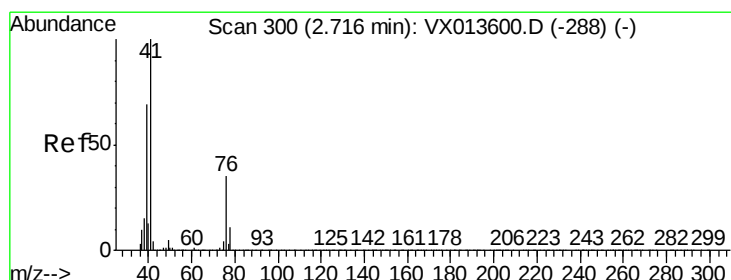
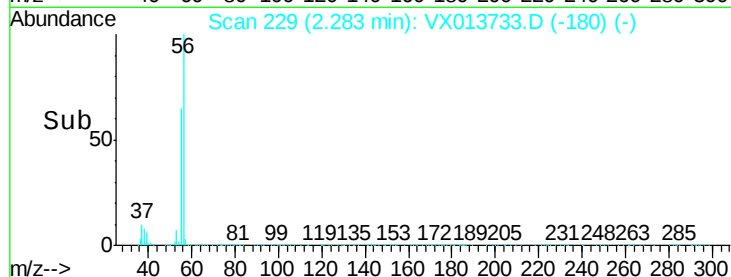
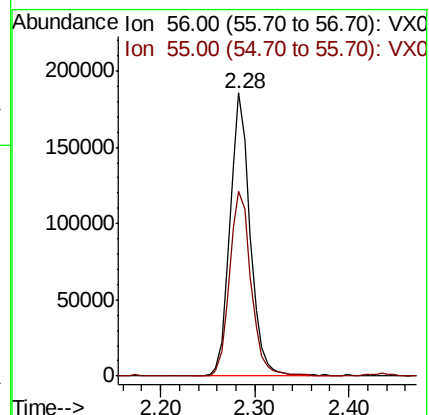
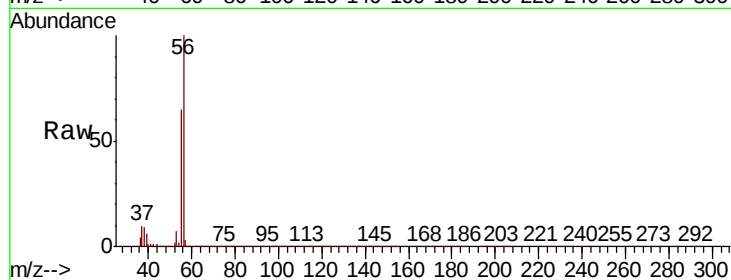
S39-0191MSD

Tot Ion: 56 Resp: 272450

Ion Ratio Lower Upper

56 100

55 69.9 56.2 84.4



#14

Allyl chloride

Concen: 48.972 ug/l

RT: 2.72 min Scan# 300

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

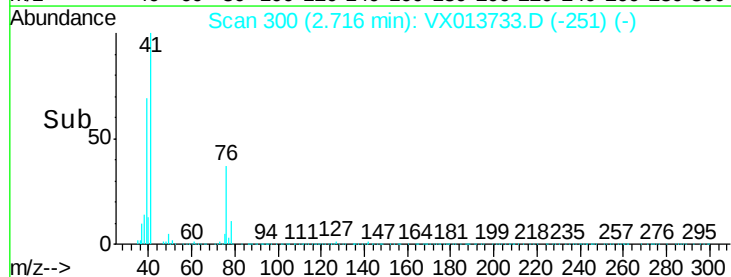
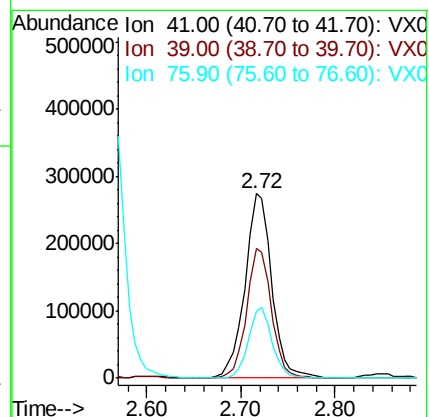
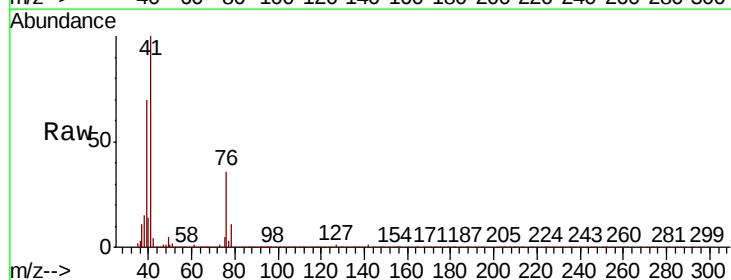
Tgt Ion: 41 Resp: 540688

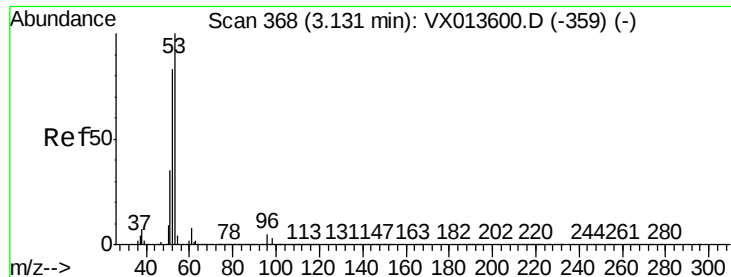
Ion Ratio Lower Upper

41 100

39 65.3 51.7 77.5

76 33.8 25.9 38.9





#15

Acrylonitrile

Concen: 247.896 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

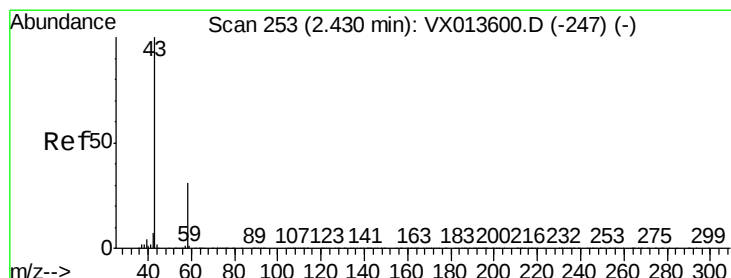
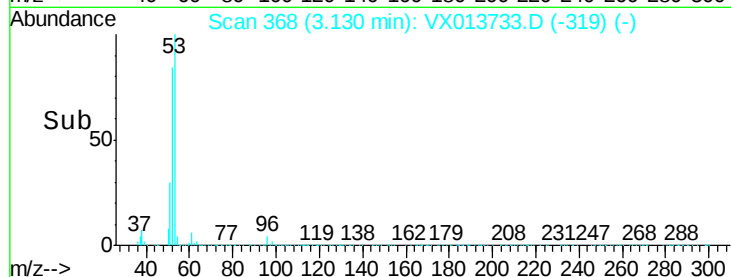
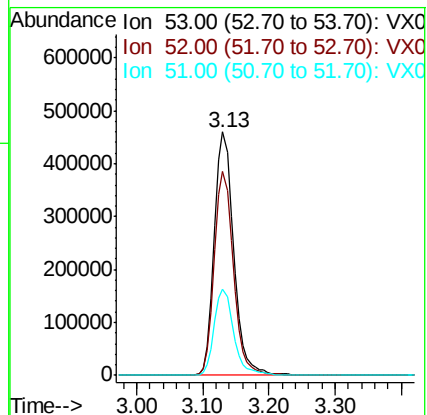
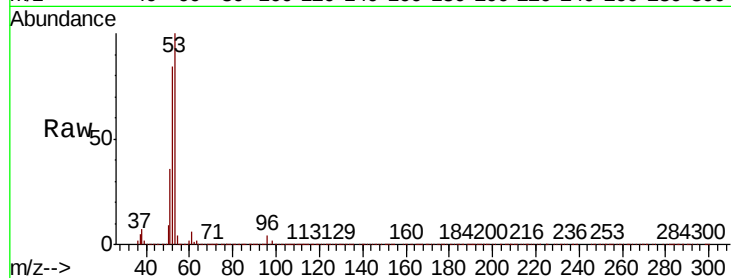
MSVOA\_X

ClientSampleId :

S39-0191MSD

Tot Ion: 53 Resp: 937273

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 82.9  | 66.2  | 99.2  |
| 51  | 35.6  | 29.0  | 43.6  |



#16

Acetone

Concen: 214.178 ug/l

RT: 2.43 min Scan# 253

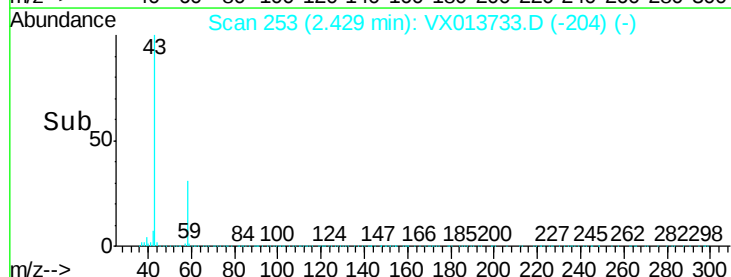
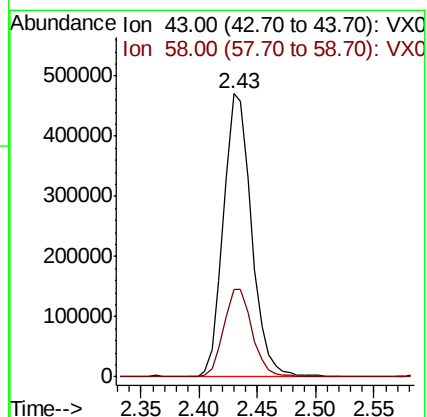
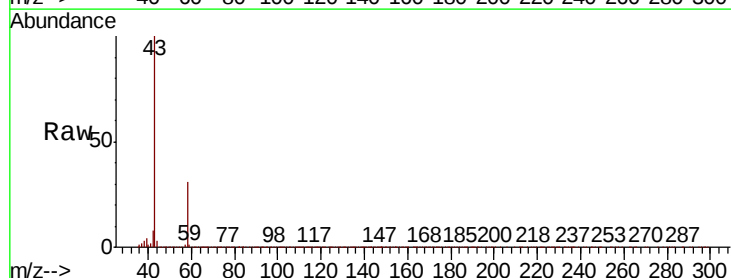
Delta R.T. -0.00 min

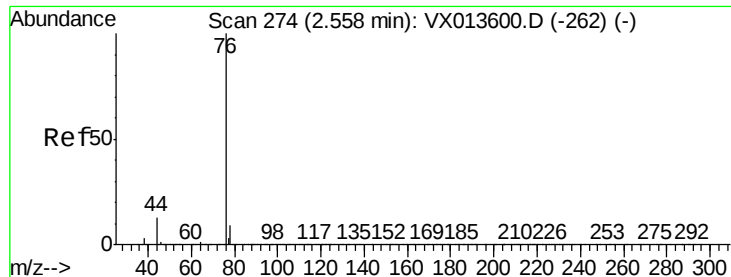
Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Tgt Ion: 43 Resp: 784688

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 31.1  | 24.6  | 36.8  |





#17

Carbon Disulfide

Concen: 46.472 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

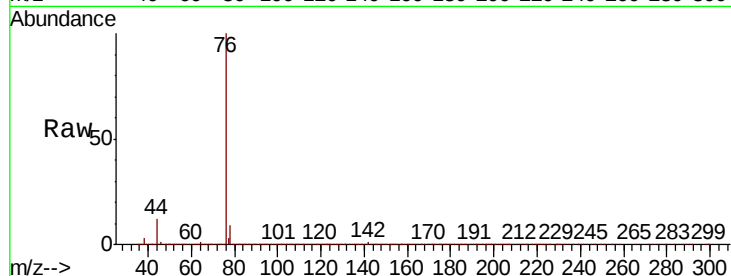
S39-0191MSD

Tot Ion: 76 Resp: 805989

Ion Ratio Lower Upper

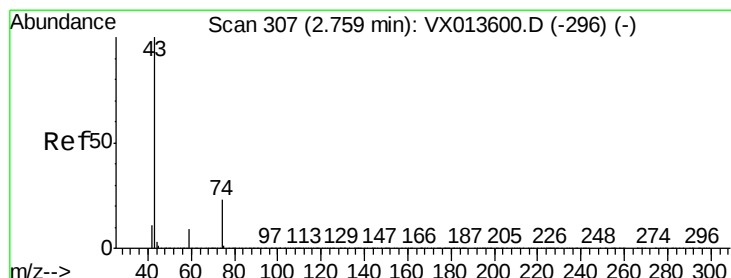
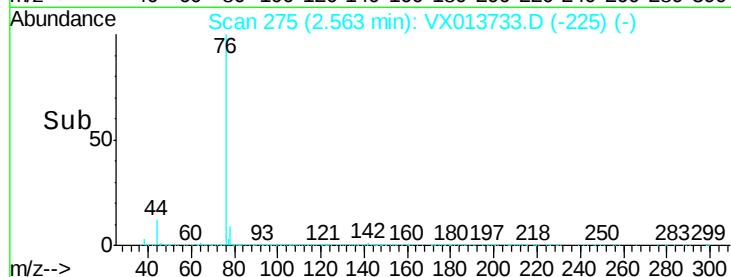
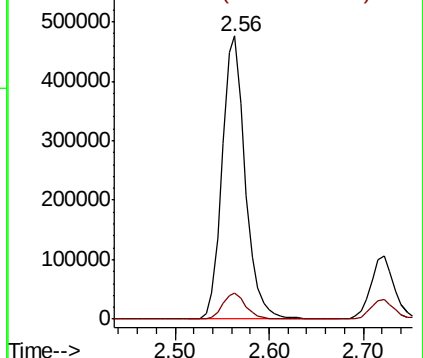
76 100

78 9.0 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 50.666 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.01 min

Lab File: VX013733.D

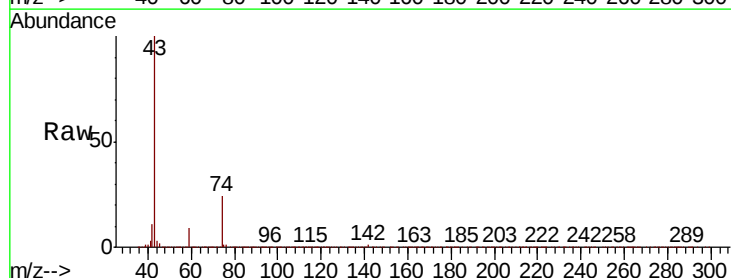
Acq: 03 Dec 2019 18:31

Tgt Ion: 43 Resp: 516898

Ion Ratio Lower Upper

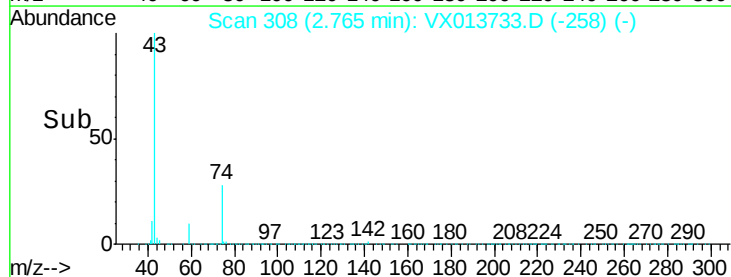
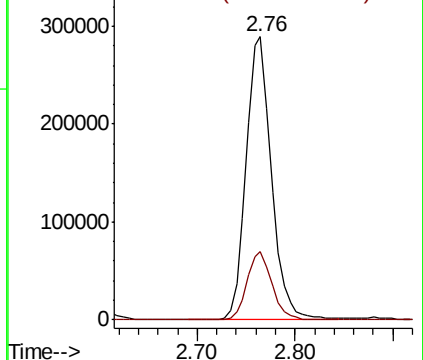
43 100

74 24.2 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

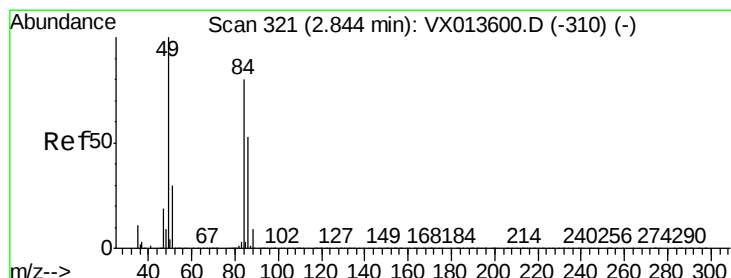
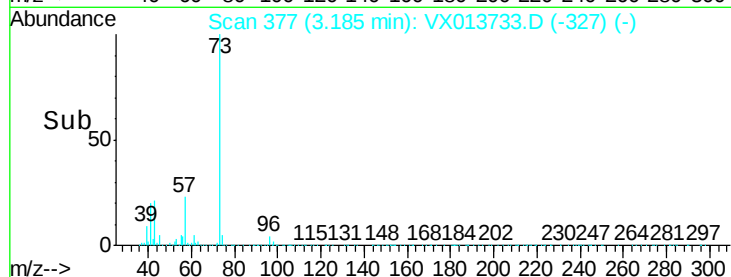
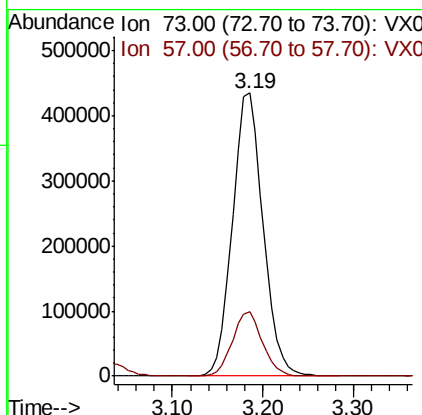
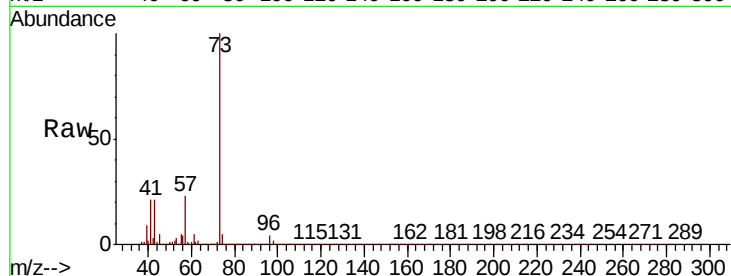




#19  
Methvl tert-butvl Ether  
Concen: 50.411 ug/l  
RT: 3.19 min Scan# 377  
Delta R.T. 0.01 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

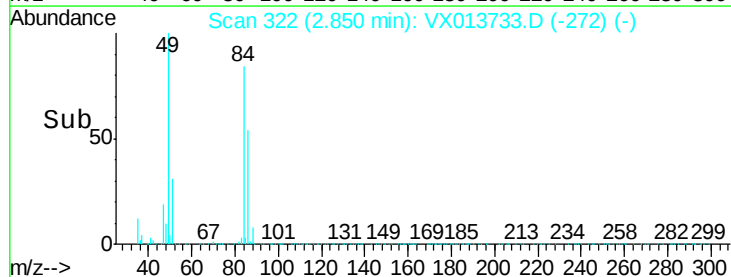
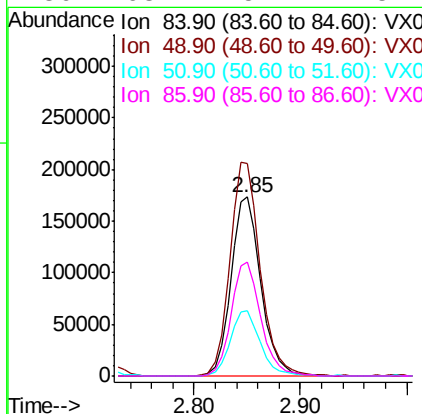
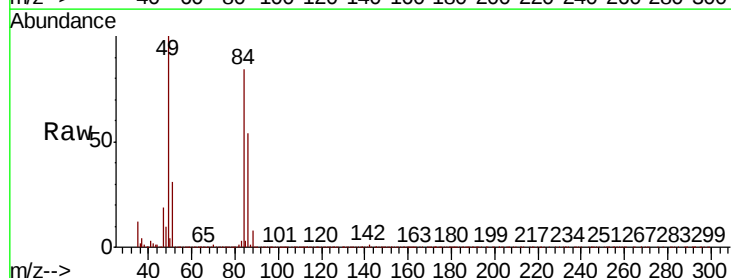
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

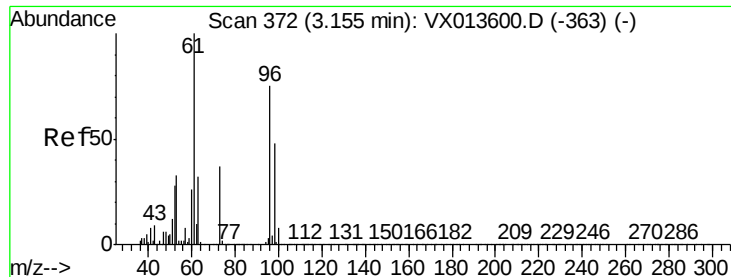
Tot Ion: 73 Resp: 1016012  
Ion Ratio Lower Upper  
73 100  
57 22.7 18.3 27.5



#20  
Methylene Chloride  
Concen: 48.233 ug/l  
RT: 2.85 min Scan# 322  
Delta R.T. 0.01 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 84 Resp: 339491  
Ion Ratio Lower Upper  
84 100  
49 118.5 99.7 149.5  
51 36.5 29.9 44.9  
86 63.7 52.2 78.4





#21

trans-1,2-Dichloroethene

Concen: 48.508 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

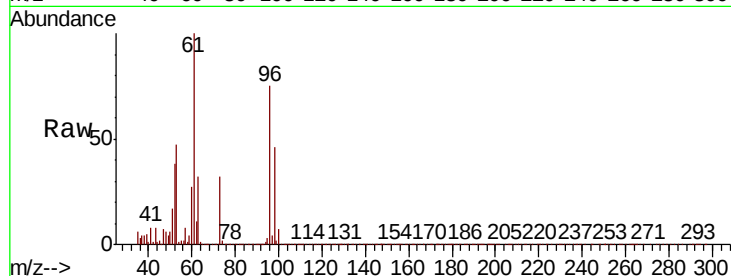
Tot Ion: 96 Resp: 321503

Ion Ratio Lower Upper

96 100

61 133.6 107.2 160.8

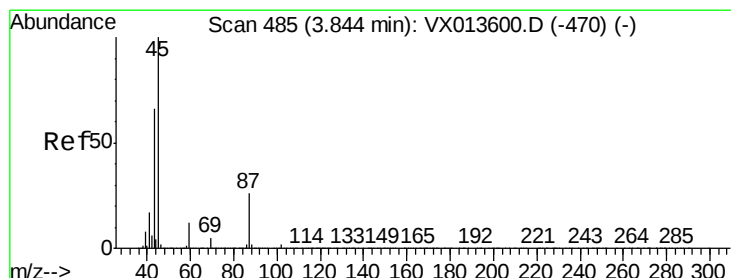
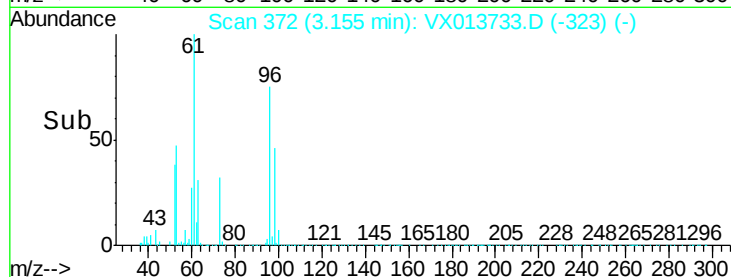
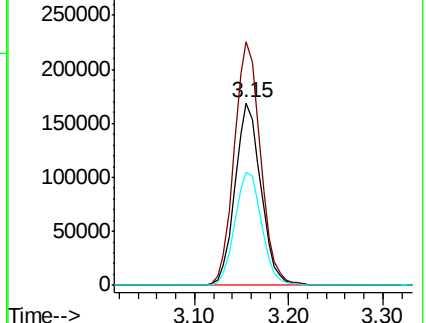
98 61.8 51.4 77.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 50.893 ug/l

RT: 3.84 min Scan# 485

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Tgt Ion: 45 Resp: 1081967

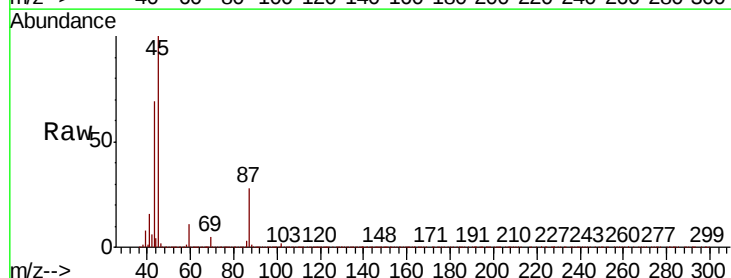
Ion Ratio Lower Upper

45 100

43 68.8 52.6 79.0

87 27.6 21.1 31.7

59 11.2 9.2 13.8

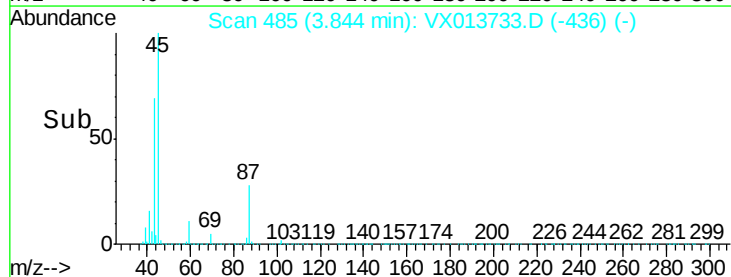
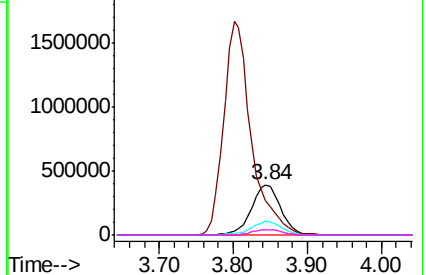


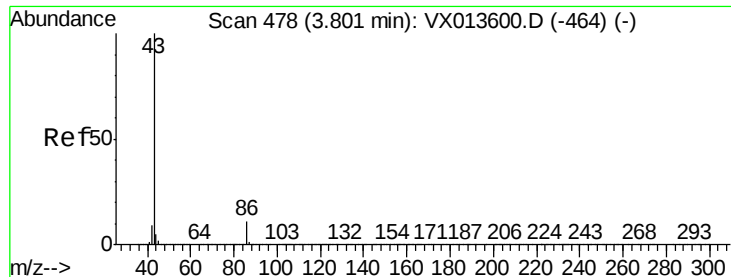
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 245.061 ug/l

RT: 3.80 min Scan# 478

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

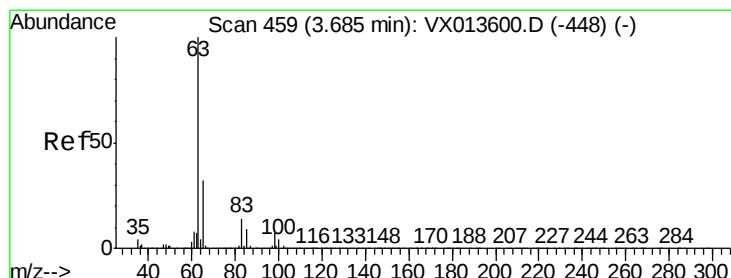
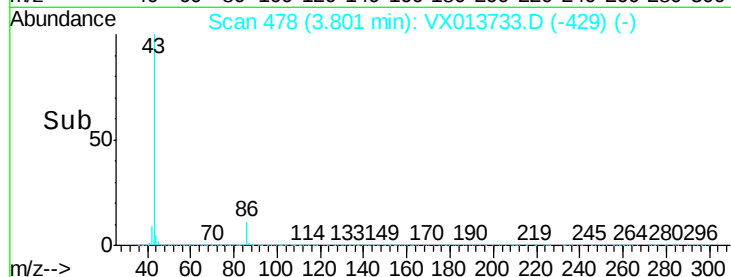
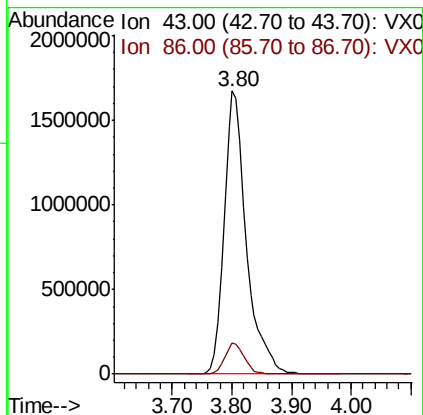
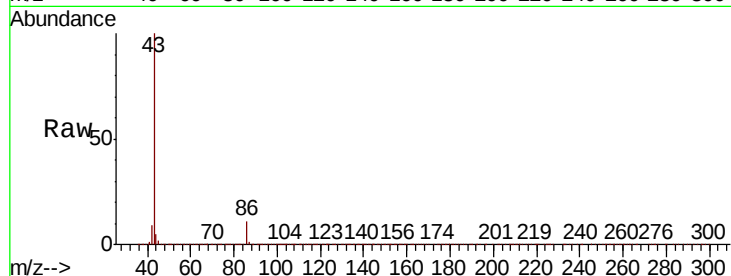
S39-0191MSD

Tot Ion: 43 Resp: 4334078

Ion Ratio Lower Upper

43 100

86 10.9 8.7 13.1



#24

1,1-Dichloroethane

Concen: 50.357 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

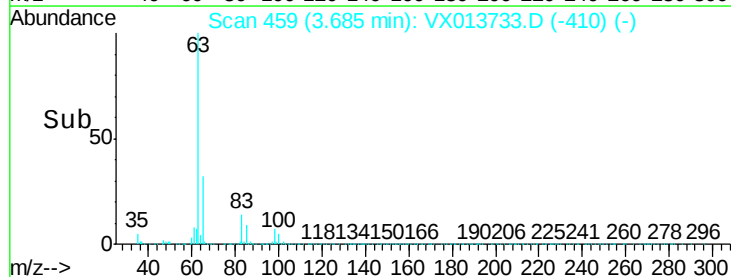
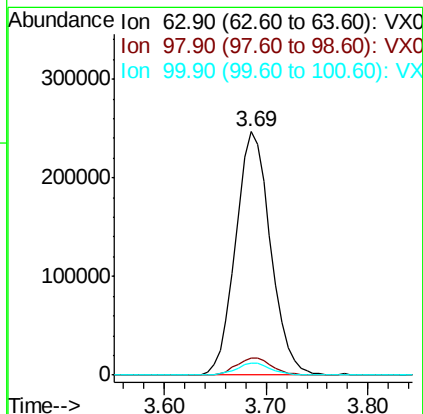
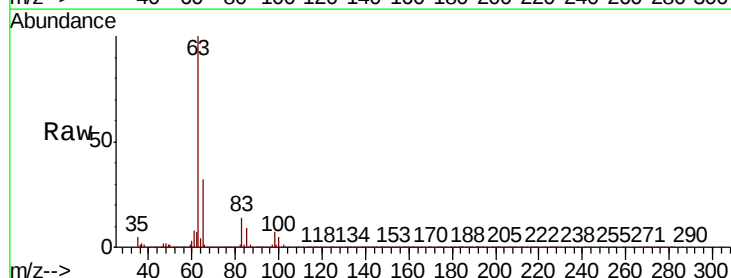
Tgt Ion: 63 Resp: 585239

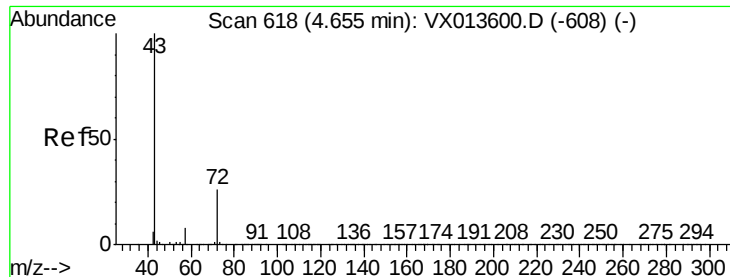
Ion Ratio Lower Upper

63 100

98 6.9 3.5 10.4

100 4.7 2.1 6.3





#25

2-Butanone

Concen: 240.906 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampled :

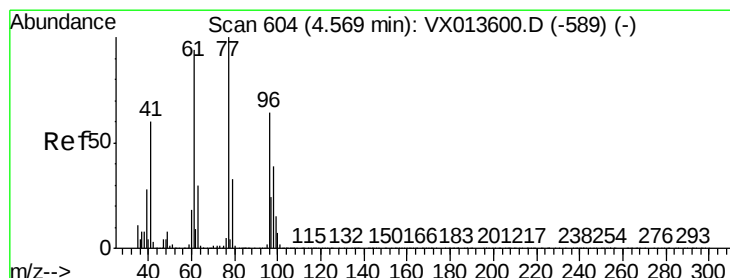
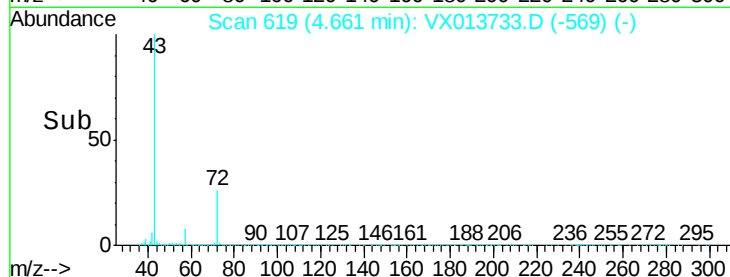
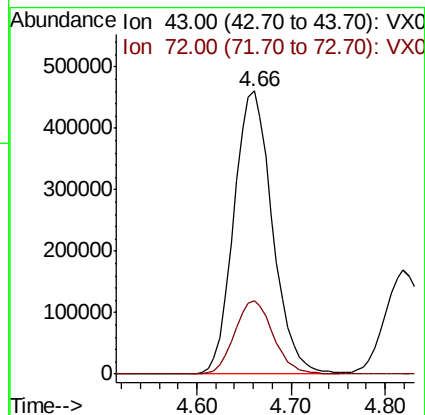
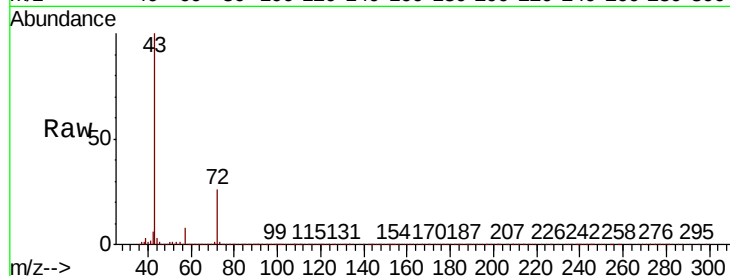
S39-0191MSD

Tot Ion: 43 Resp: 1311725

Ion Ratio Lower Upper

43 100

72 25.9 20.6 31.0



#26

2,2-Dichloropropane

Concen: 44.466 ug/l

RT: 4.58 min Scan# 605

Delta R.T. 0.01 min

Lab File: VX013733.D

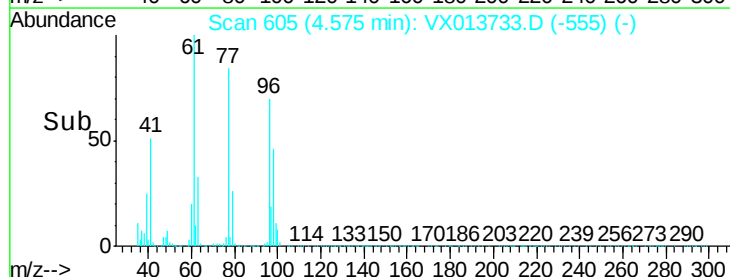
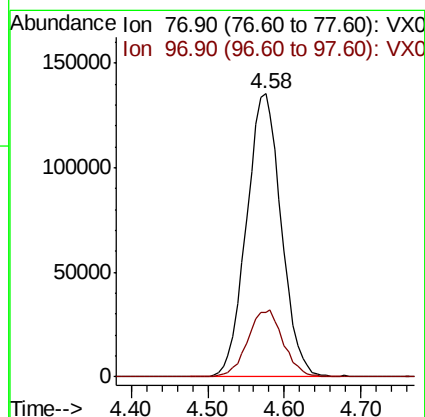
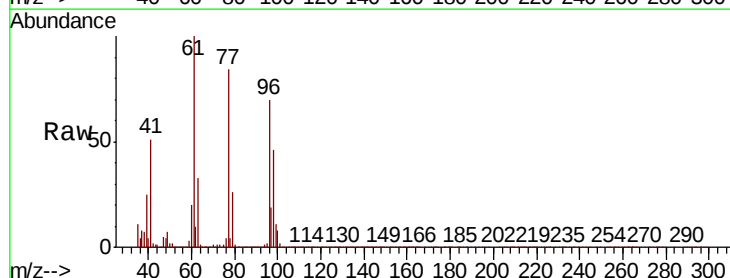
Acq: 03 Dec 2019 18:31

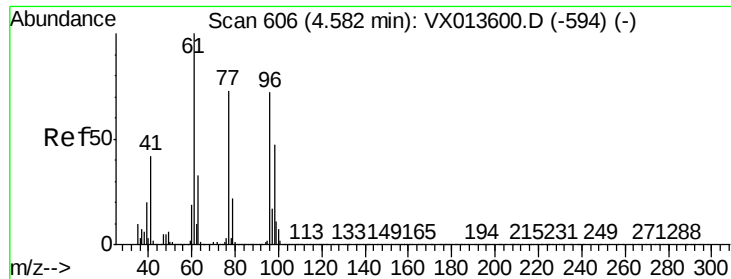
Tgt Ion: 77 Resp: 427566

Ion Ratio Lower Upper

77 100

97 24.2 12.0 36.1



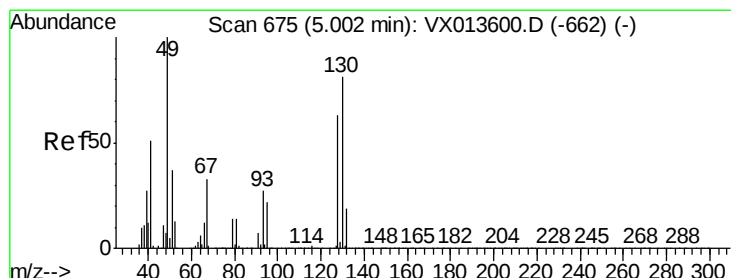
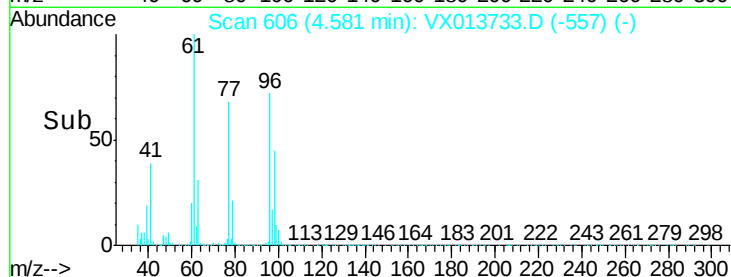
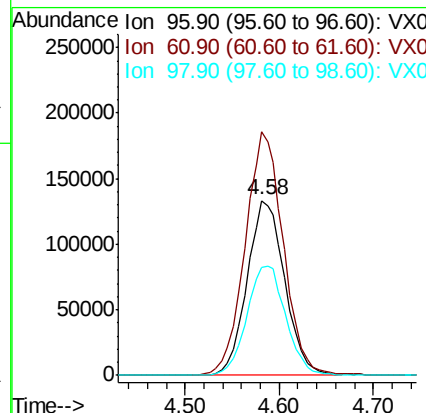
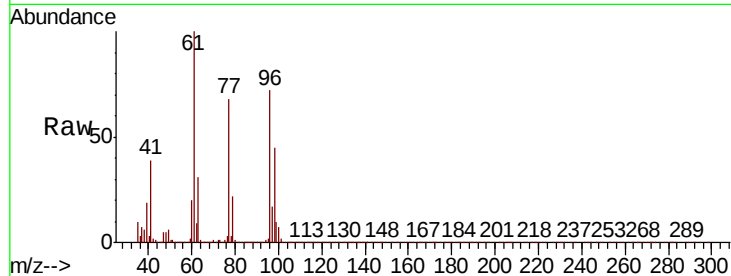


#27

cis-1,2-Dichloroethene  
Concen: 48.755 ug/l  
RT: 4.58 min Scan# 606  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

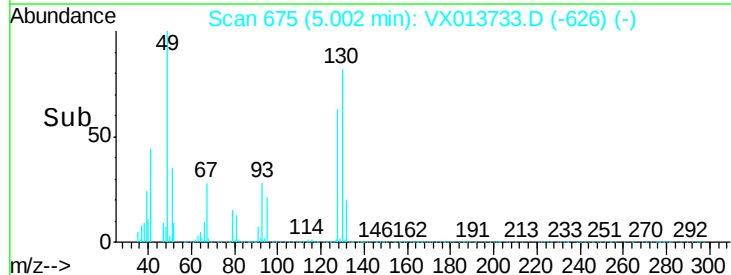
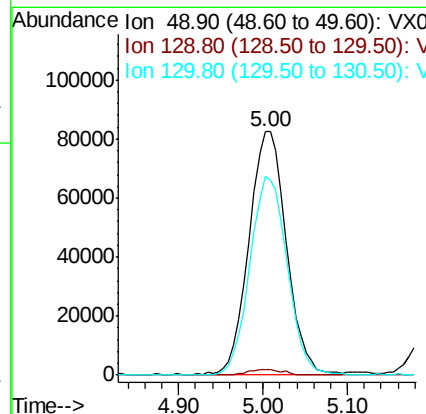
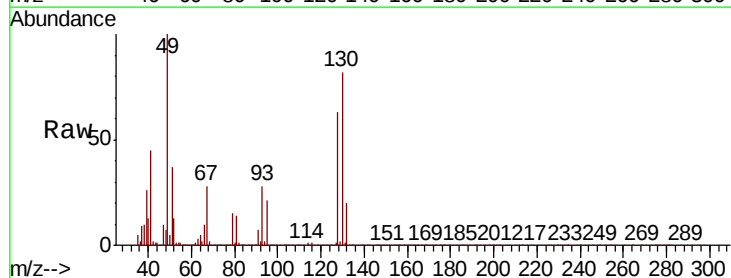
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 141.1 | 0.0   | 286.4 |
| 98      | 64.5  | 0.0   | 127.4 |

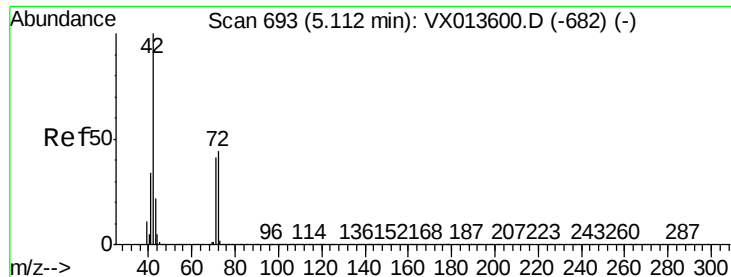


#28

Bromochloromethane  
Concen: 53.980 ug/l  
RT: 5.00 min Scan# 675  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.3   | 0.0   | 5.0   |
| 130     | 81.4  | 65.4  | 98.0  |

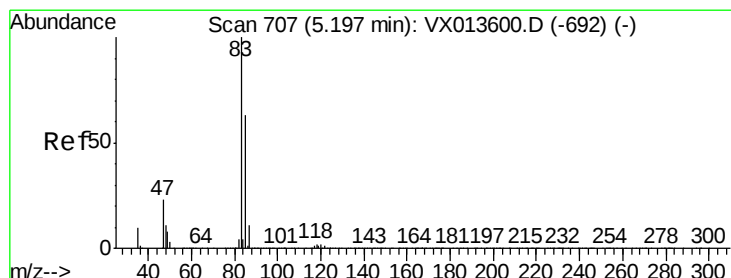
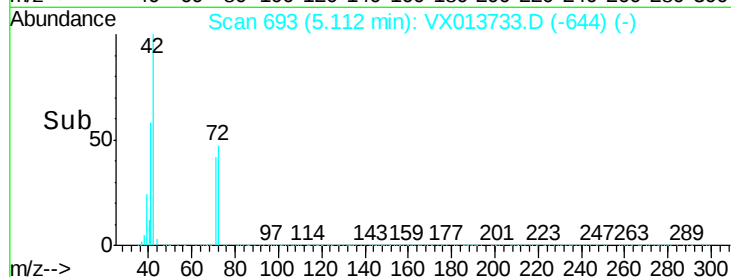
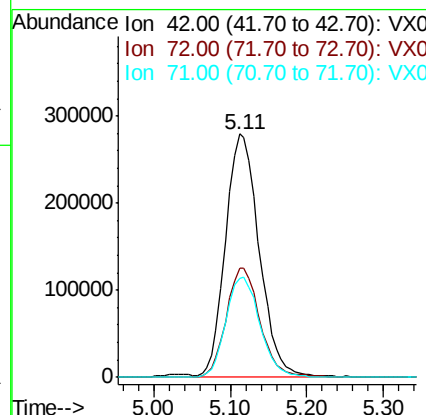
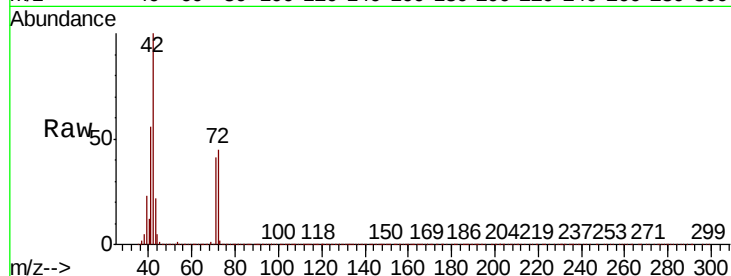




#29  
Tetrahydrofuran  
Concen: 251.275 ug/l  
RT: 5.11 min Scan# 693  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

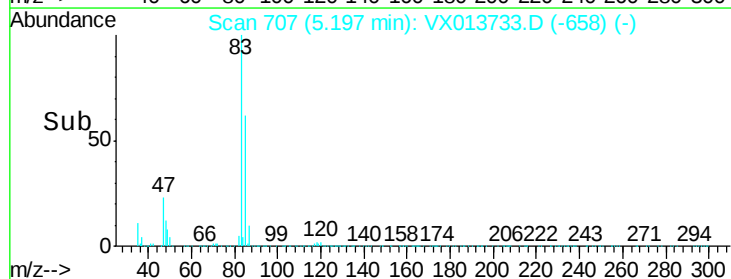
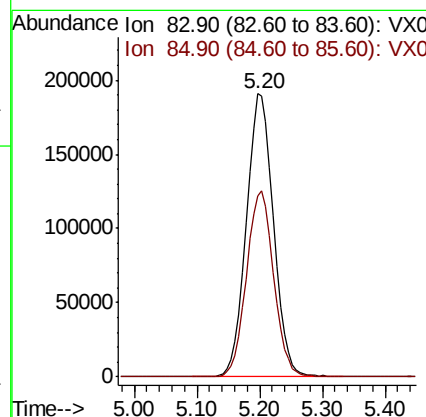
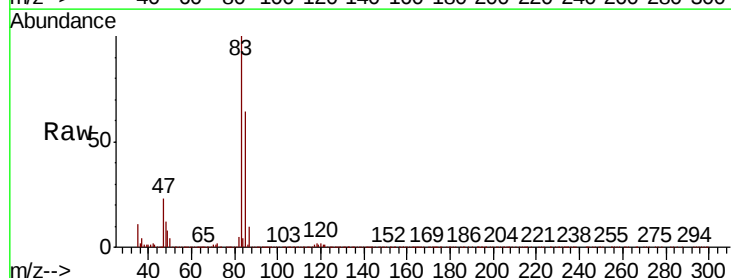
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

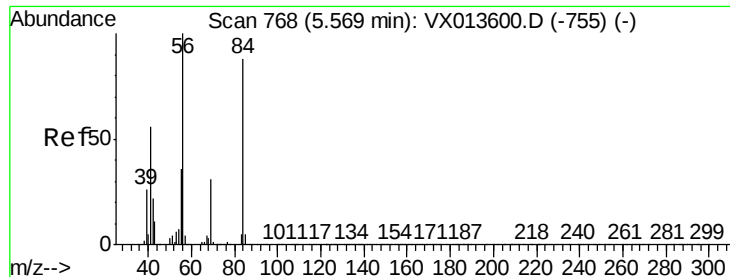
Tot Ion: 42 Resp: 843442  
Ion Ratio Lower Upper  
42 100  
72 45.4 36.3 54.5  
71 42.0 33.2 49.8



#30  
Chloroform  
Concen: 48.286 ug/l  
RT: 5.20 min Scan# 707  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 83 Resp: 569120  
Ion Ratio Lower Upper  
83 100  
85 63.7 50.2 75.4

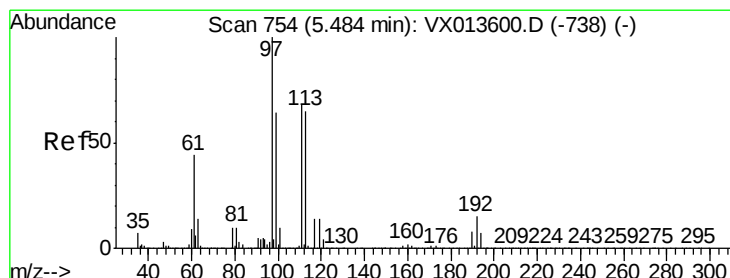
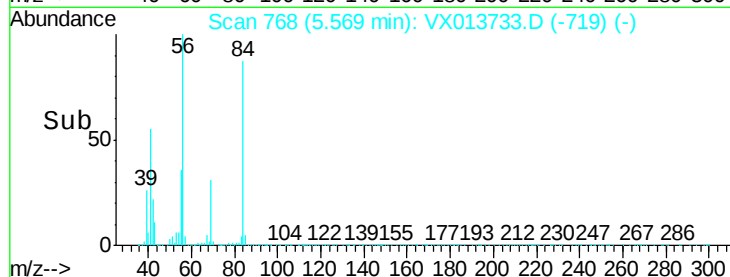
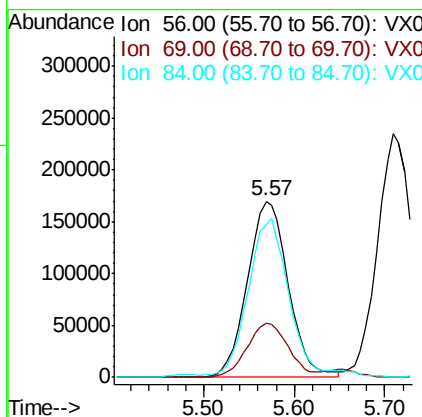
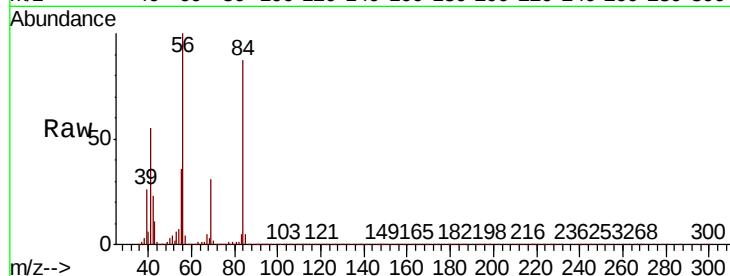




#31  
Cyclohexane  
Concen: 48.047 ug/l  
RT: 5.57 min Scan# 768  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

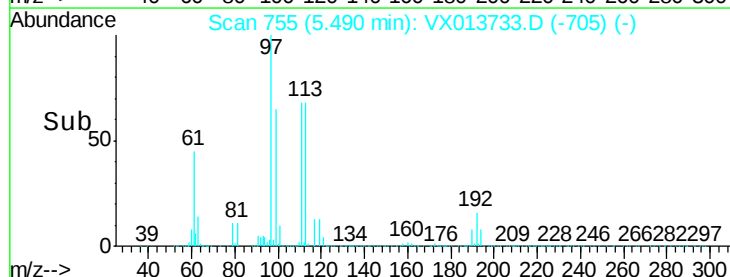
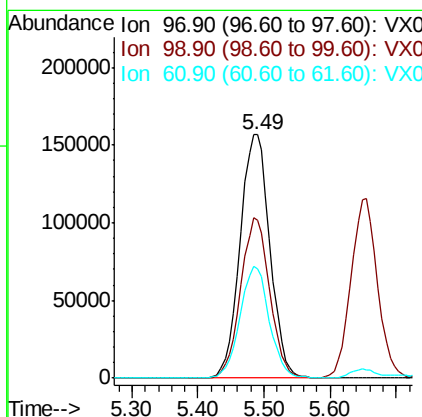
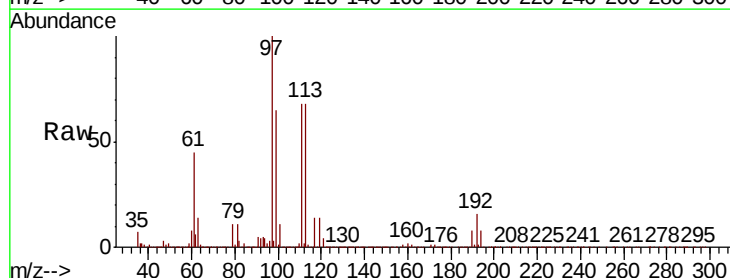
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

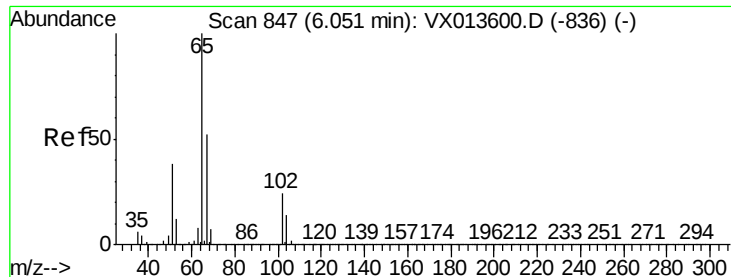
Tot Ion: 56 Resp: 526675  
Ion Ratio Lower Upper  
56 100  
69 31.1 24.6 36.8  
84 85.4 70.0 105.0



#32  
1,1,1-Trichloroethane  
Concen: 49.792 ug/l  
RT: 5.49 min Scan# 755  
Delta R.T. 0.01 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 97 Resp: 490422  
Ion Ratio Lower Upper  
97 100  
99 64.4 51.6 77.4  
61 44.6 36.1 54.1

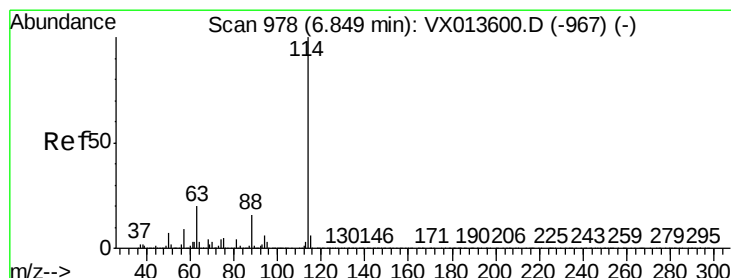
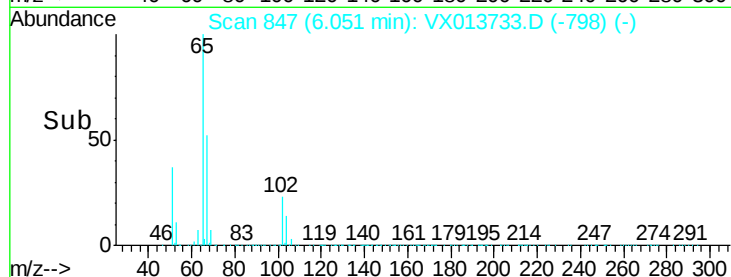
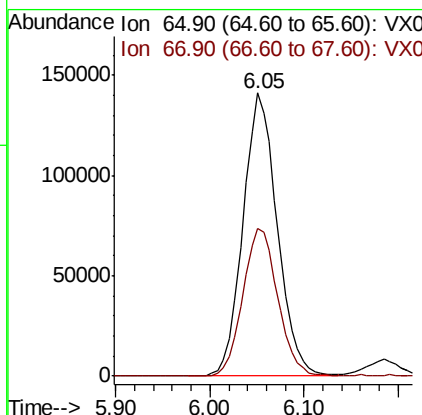
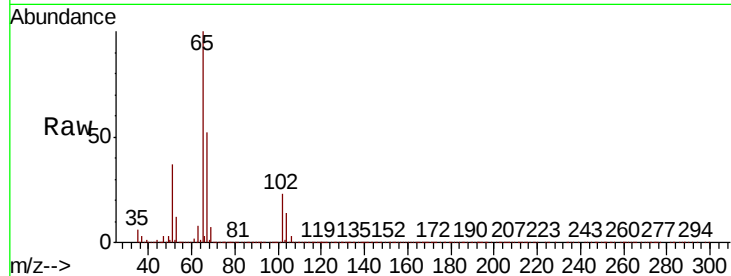




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.541 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. -0.00 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

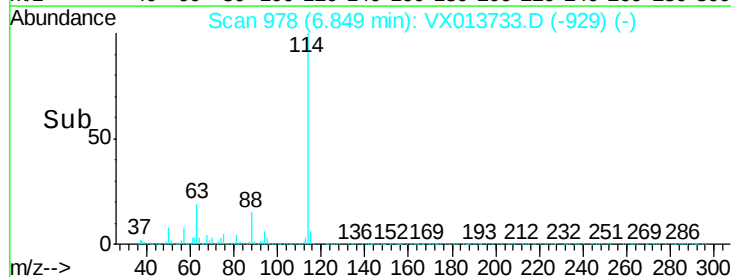
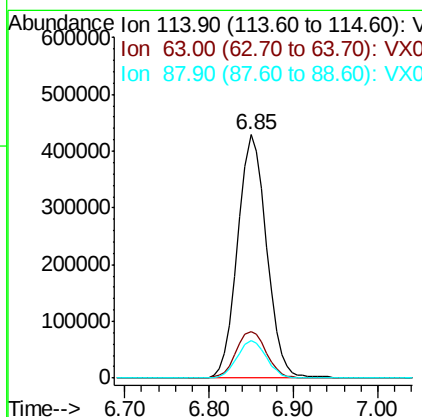
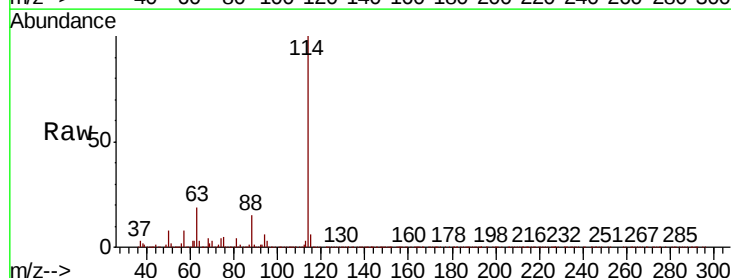
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S39-0191MSD

Tot Ion: 65 Resp: 360213  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

Tgt Ion: 114 Resp: 994465  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 39.6  
 88 15.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.031 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampled :

S39-0191MSD

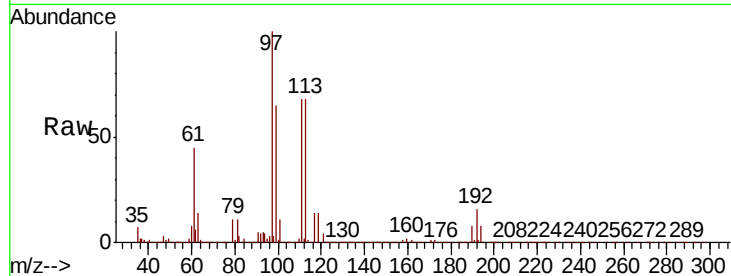
Tot Ion:113 Resp: 301437

Ion Ratio Lower Upper

113 100

111 101.1 83.6 125.4

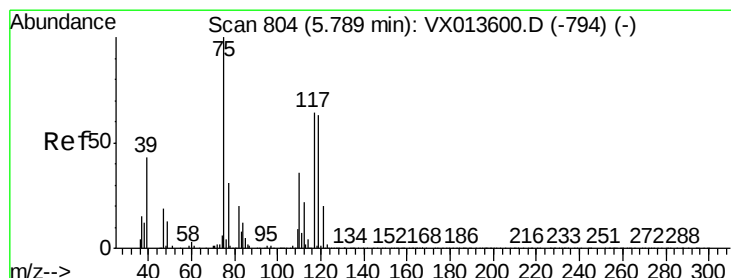
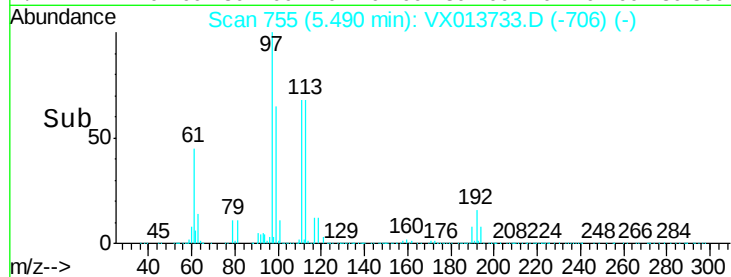
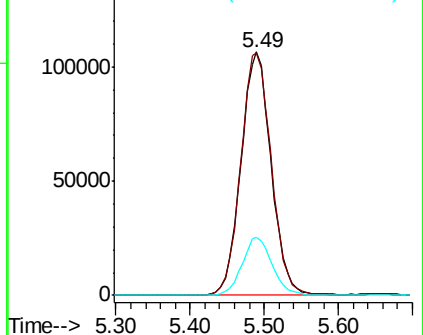
192 23.8 19.2 28.8



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: 47.745 ug/l

RT: 5.79 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

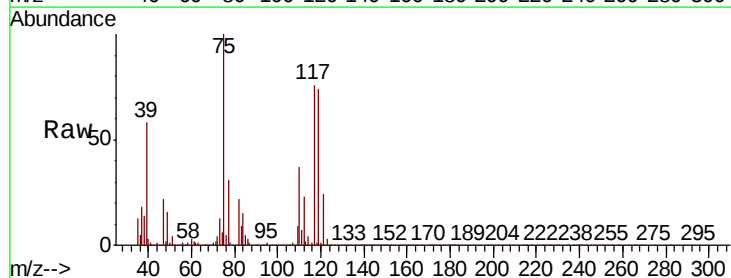
Tgt Ion: 75 Resp: 431006

Ion Ratio Lower Upper

75 100

110 36.8 18.1 54.1

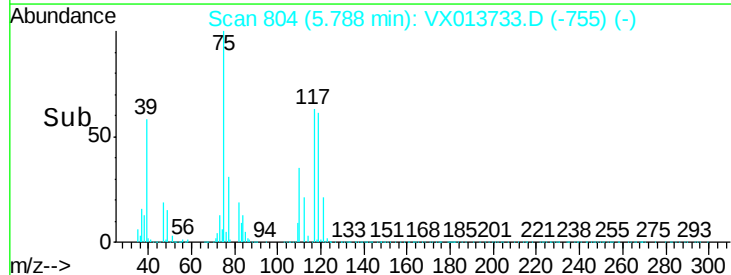
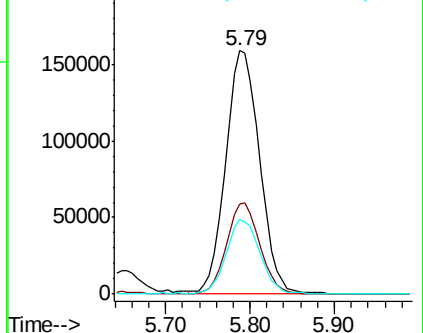
77 30.3 24.5 36.7

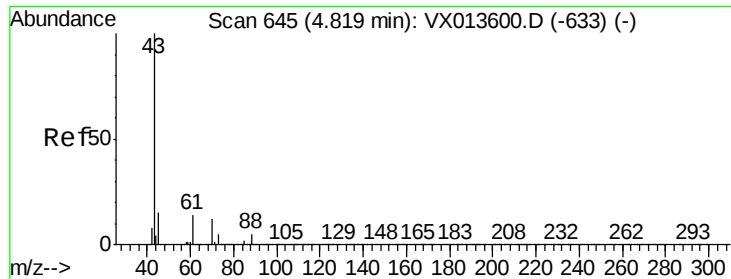


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

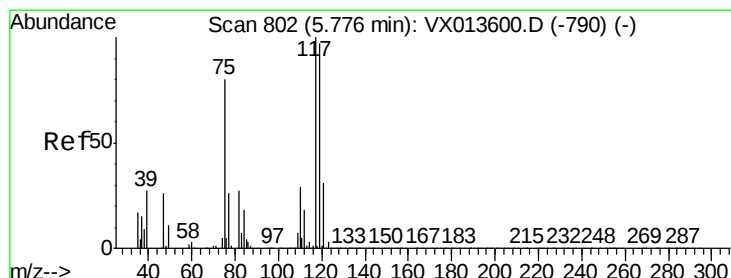
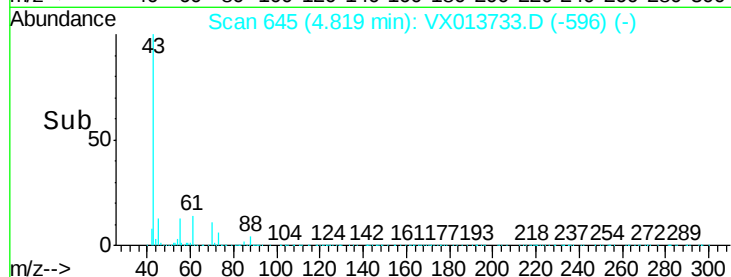
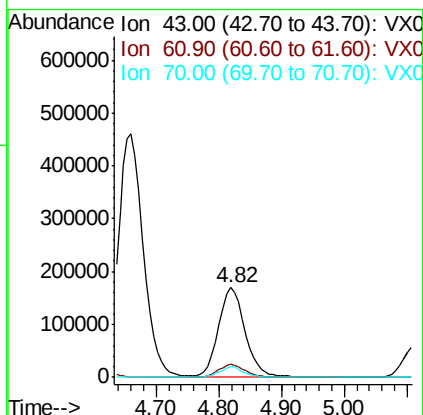
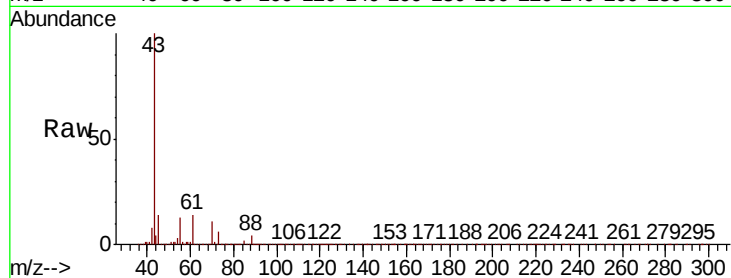




#37  
Ethyl Acetate  
Concen: 48.983 ug/l  
RT: 4.82 min Scan# 645  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

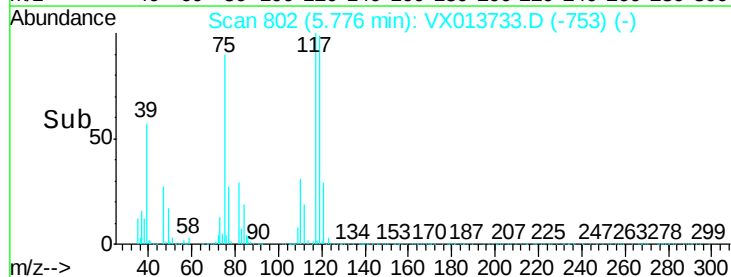
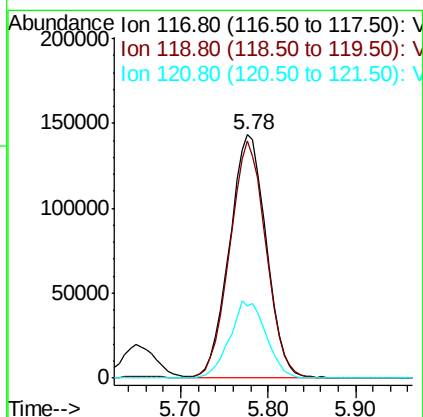
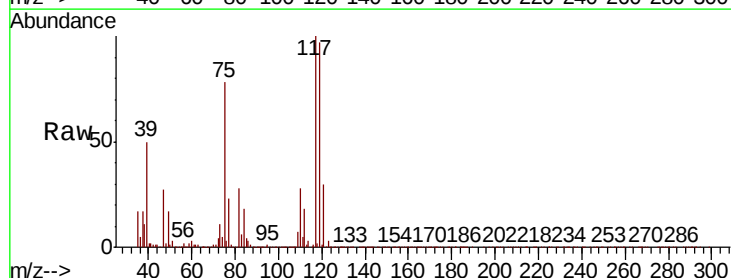
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

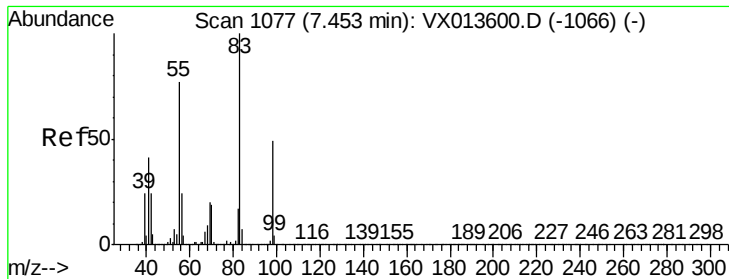
Tot Ion: 43 Resp: 496058  
Ion Ratio Lower Upper  
43 100  
61 13.8 11.0 16.4  
70 10.7 8.6 12.8



#38  
Carbon Tetrachloride  
Concen: 50.212 ug/l  
RT: 5.78 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 117 Resp: 417960  
Ion Ratio Lower Upper  
117 100  
119 97.2 77.5 116.3  
121 29.6 25.0 37.6

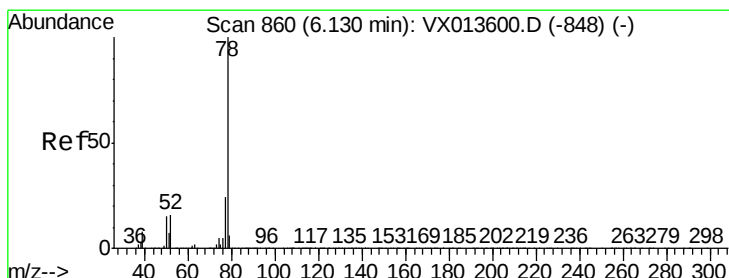
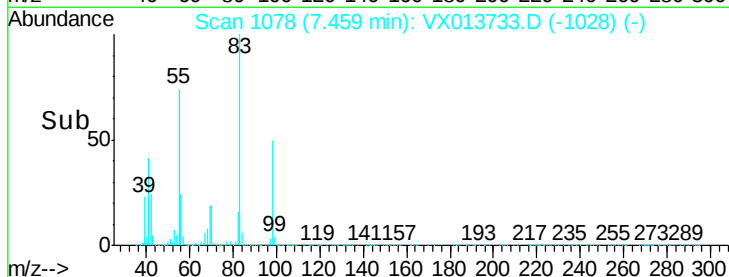
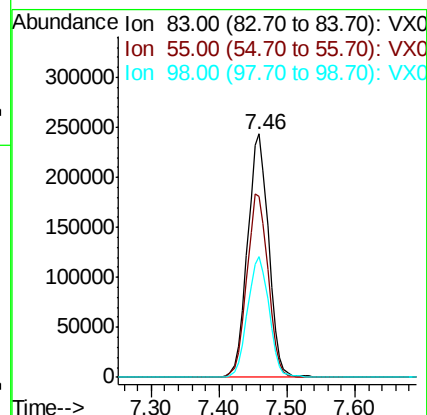
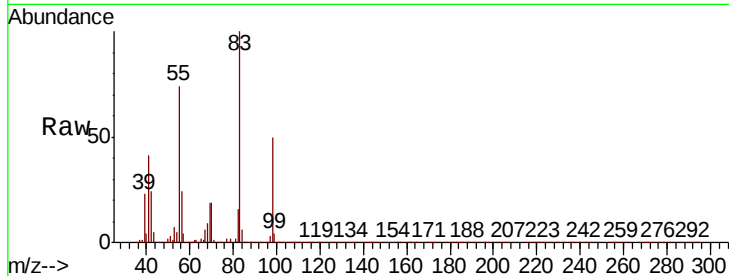




#39  
Methvlcvclohexane  
Concen: 46.835 ug/l  
RT: 7.46 min Scan# 1078  
Delta R.T. 0.01 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

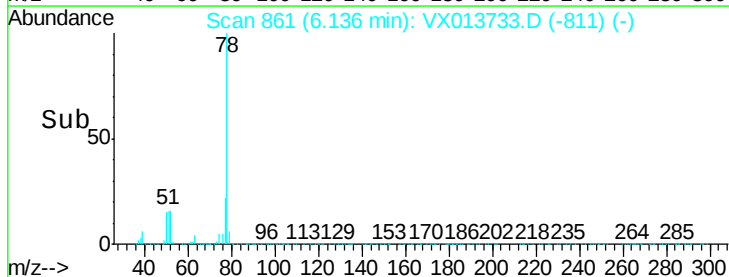
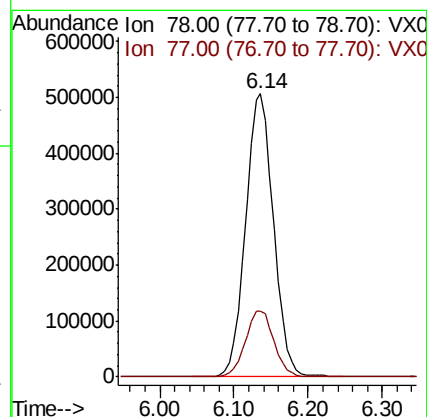
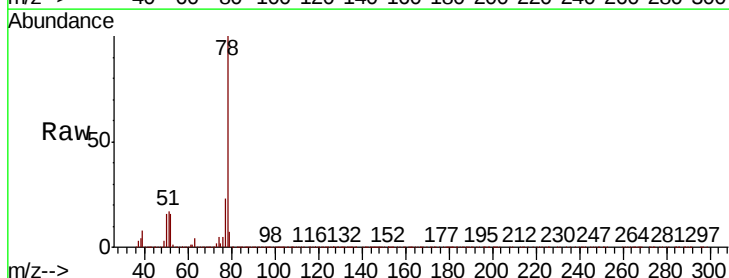
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

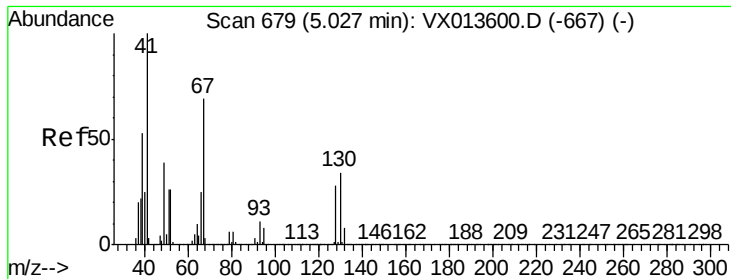
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 74.3  | 61.9  | 92.9  |
| 98      | 49.5  | 39.4  | 59.0  |



#40  
Benzene  
Concen: 48.279 ug/l  
RT: 6.14 min Scan# 861  
Delta R.T. 0.01 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.3  | 19.0  | 28.4  |

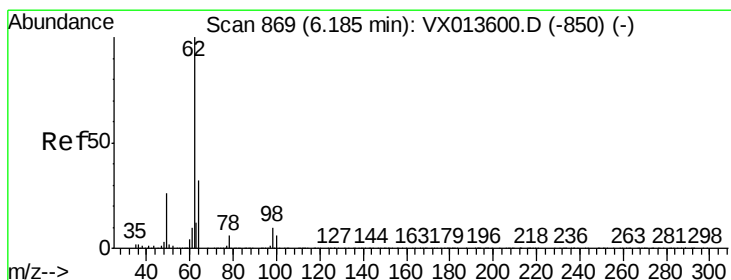
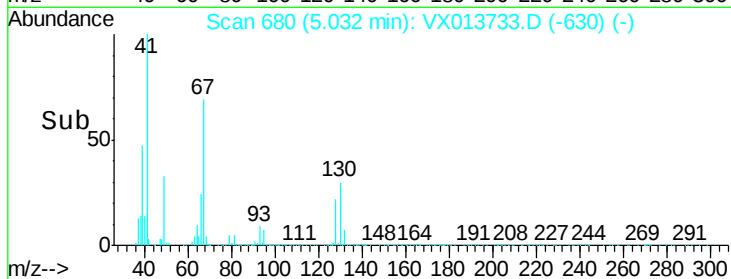
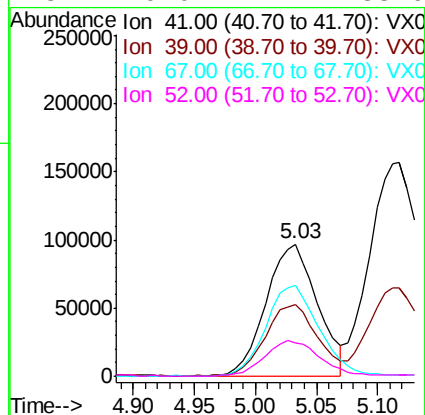
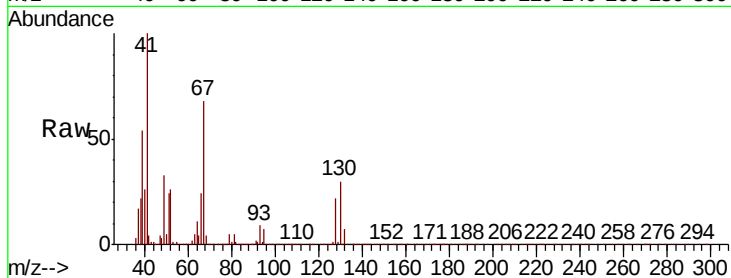




#41  
Methacrylonitrile  
Concen: 50.859 ug/l  
RT: 5.03 min Scan# 680  
Delta R.T. 0.01 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

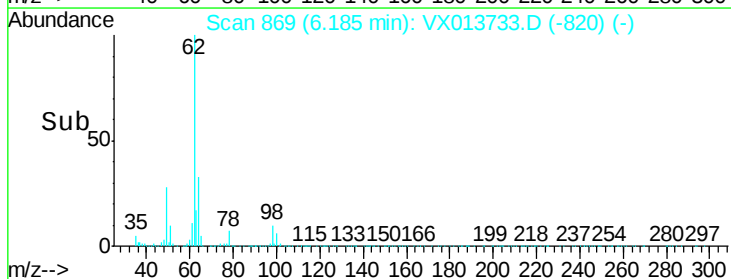
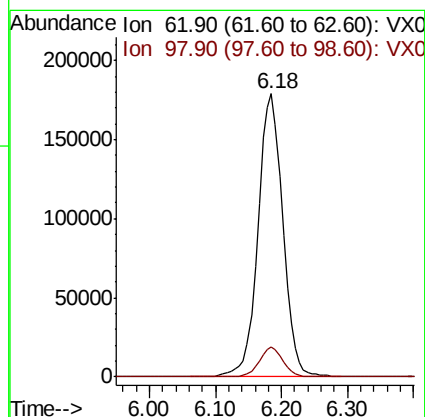
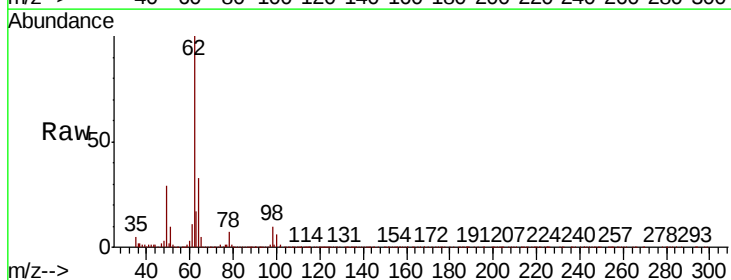
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

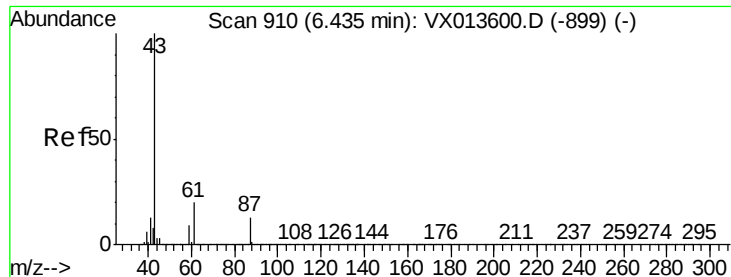
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 282470 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 54.8  | 42.9  | 64.3   |
| 67       | 70.9  | 57.4  | 86.0   |
| 52       | 29.0  | 22.4  | 33.6   |



#42  
1,2-Dichloroethane  
Concen: 49.593 ug/l  
RT: 6.18 min Scan# 869  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 465013 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 9.9   | 0.0   | 20.8   |



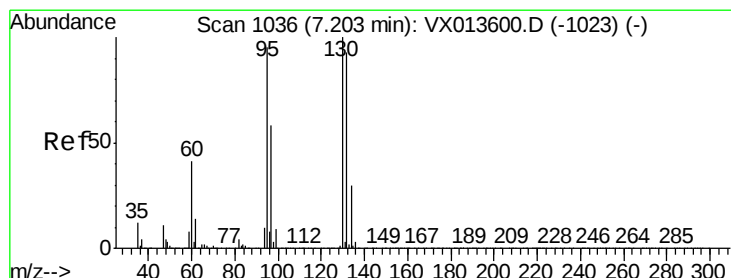
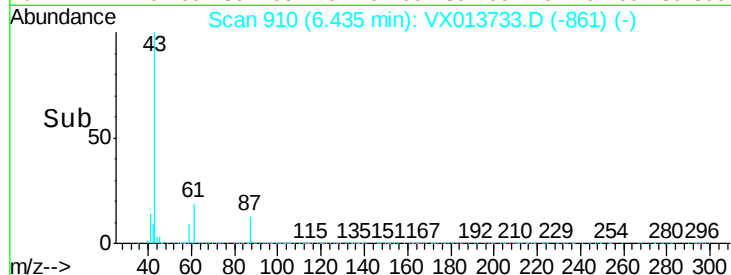
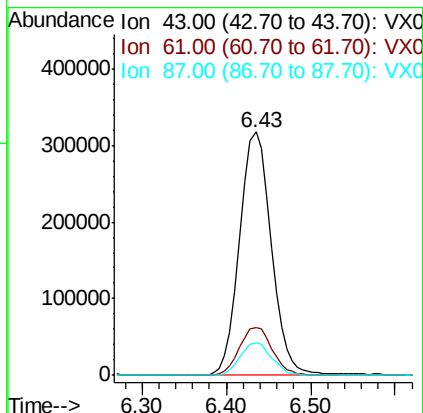
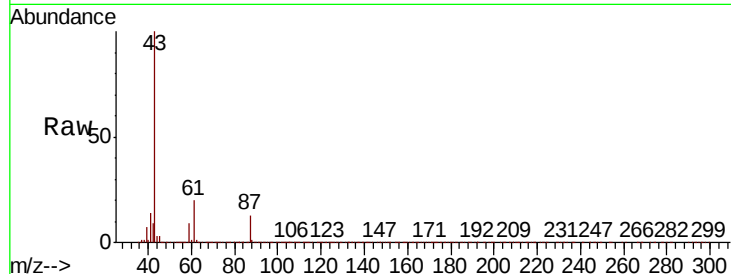


#43

Isopropyl Acetate  
 Concen: 48.235 ug/l  
 RT: 6.43 min Scan# 910  
 Delta R.T. -0.00 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S39-0191MSD

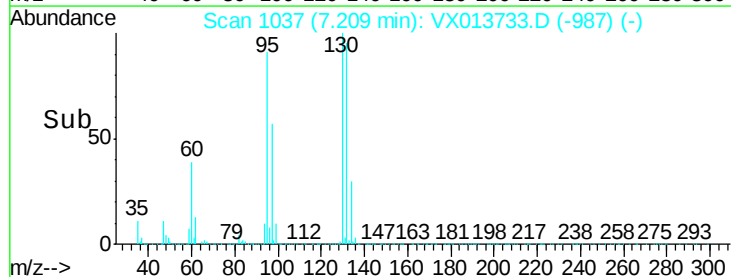
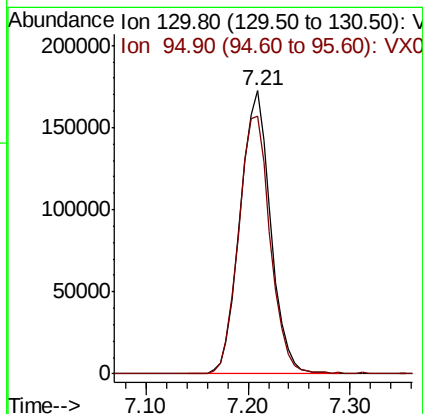
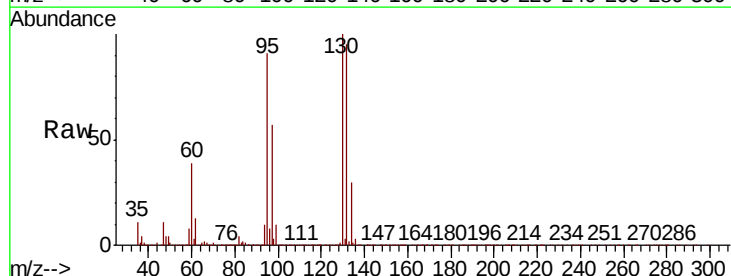
| Tot Ion   | 43    | Resp  | 804201 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 61        | 20.3  | 16.3  | 24.5   |
| 87        | 13.4  | 10.8  | 16.2   |

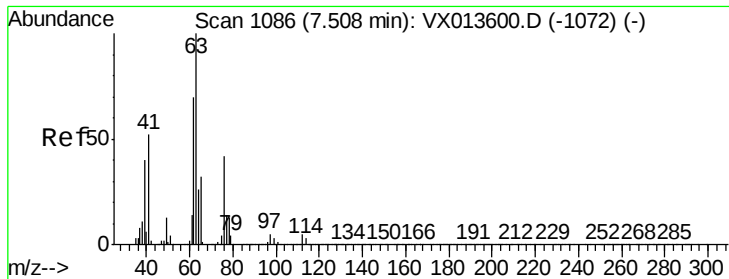


#44

Trichloroethene  
 Concen: 47.578 ug/l  
 RT: 7.21 min Scan# 1037  
 Delta R.T. 0.01 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

| Tgt Ion   | 130   | Resp  | 359007 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 90.8  | 0.0   | 190.8  |





#45

1,2-Dichloropropane

Concen: 49.995 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

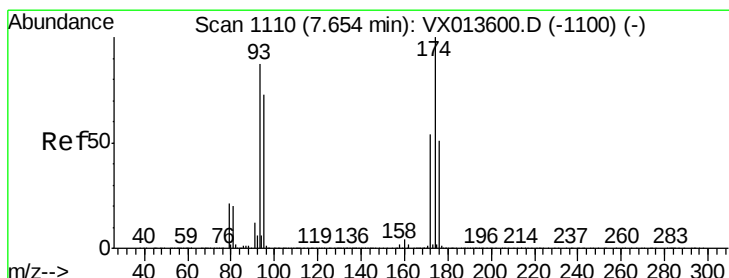
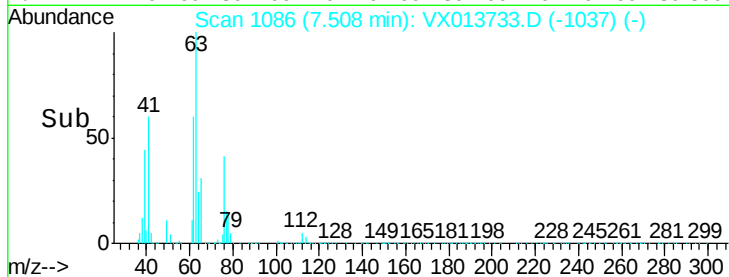
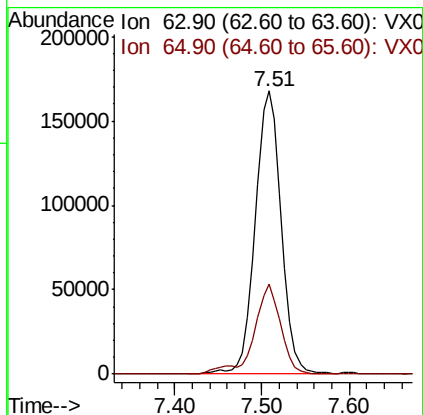
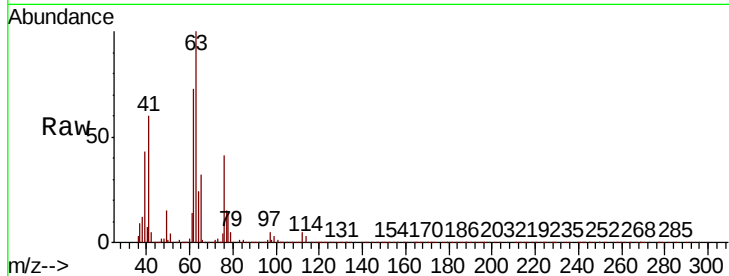
S39-0191MSD

Tot Ion: 63 Resp: 343912

Ion Ratio Lower Upper

63 100

65 31.6 25.5 38.3



#46

Dibromomethane

Concen: 48.283 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

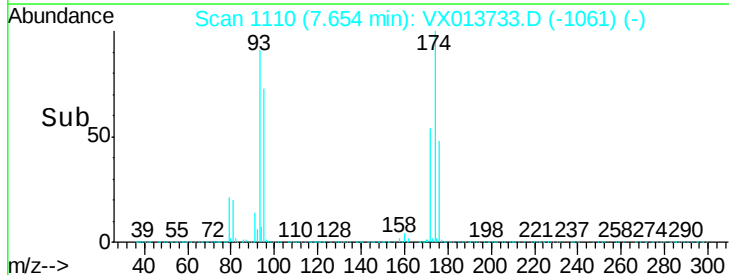
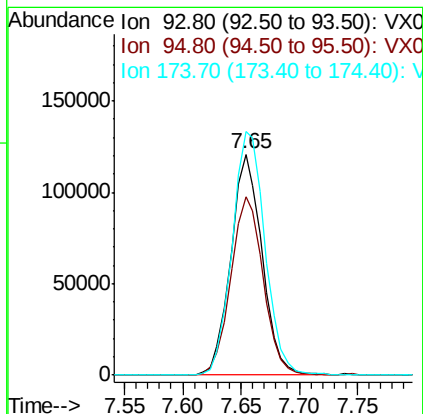
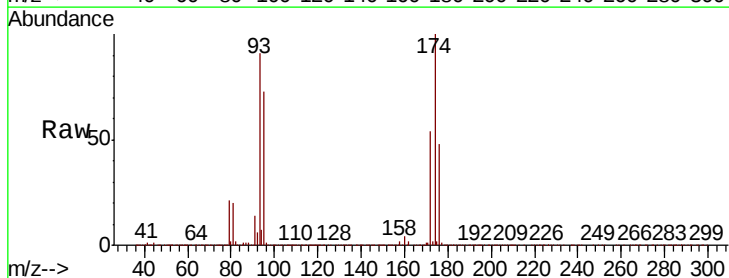
Tgt Ion: 93 Resp: 225580

Ion Ratio Lower Upper

93 100

95 83.4 66.2 99.2

174 116.1 93.4 140.0





#47

Bromodichloromethane

Concen: 51.199 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

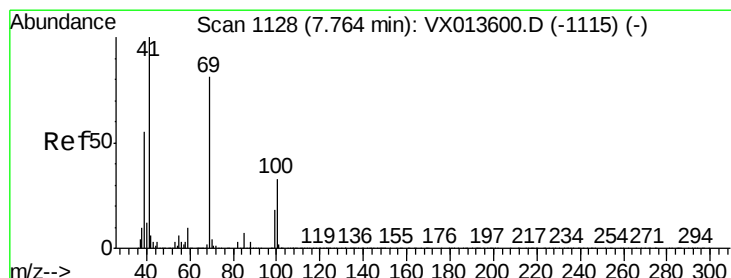
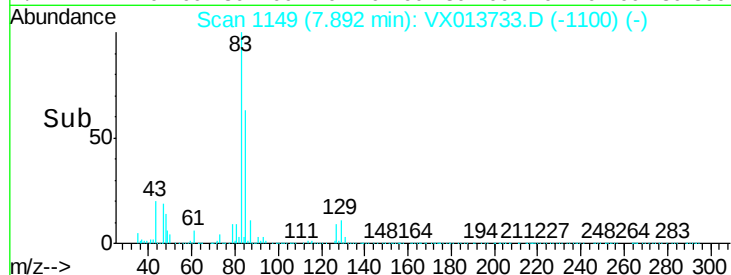
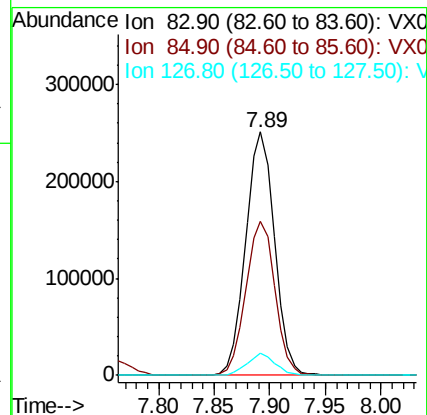
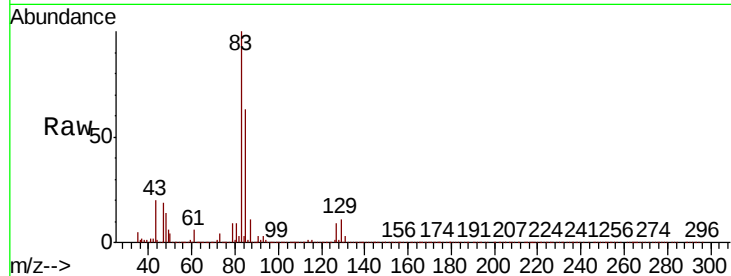
Tot Ion: 83 Resp: 452197

Ion Ratio Lower Upper

83 100

85 63.1 52.1 78.1

127 9.0 7.0 10.4



#48

Methyl methacrylate

Concen: 51.334 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

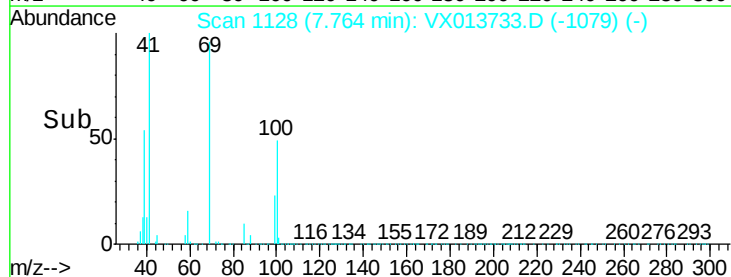
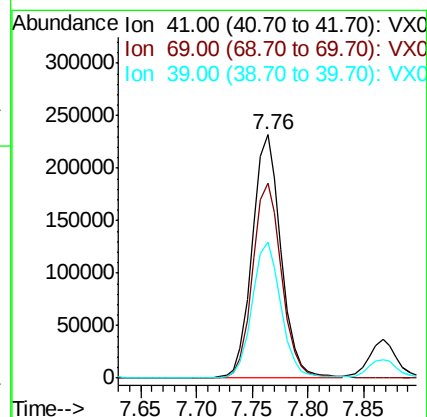
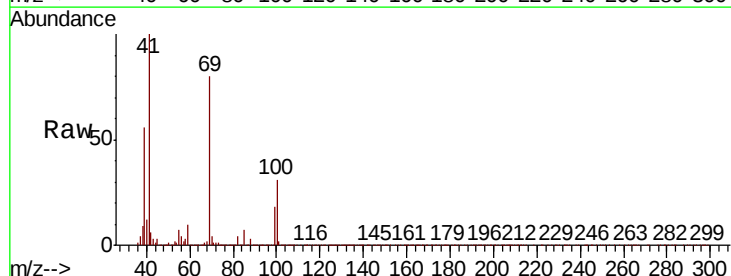
Tgt Ion: 41 Resp: 415848

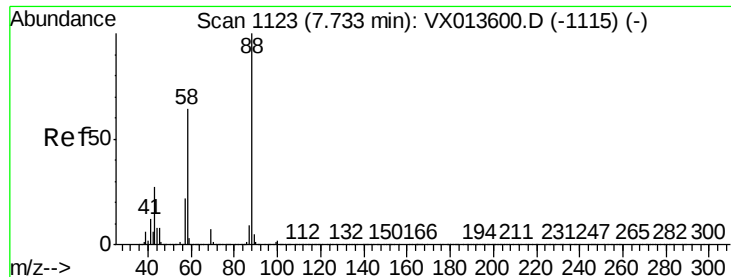
Ion Ratio Lower Upper

41 100

69 81.1 64.7 97.1

39 55.8 43.8 65.6





#49

1,4-Dioxane

Concen: 856.562 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

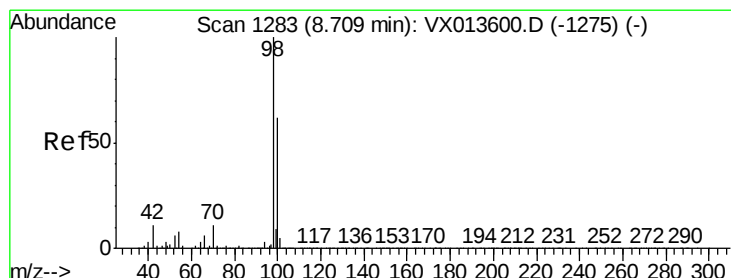
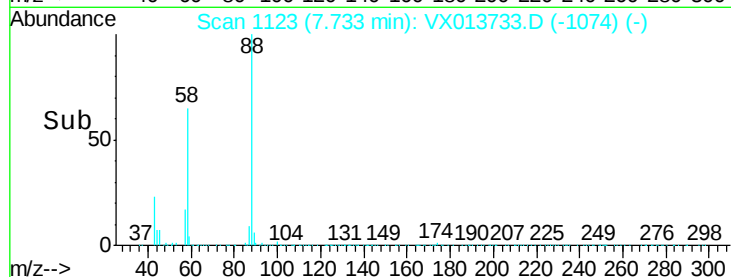
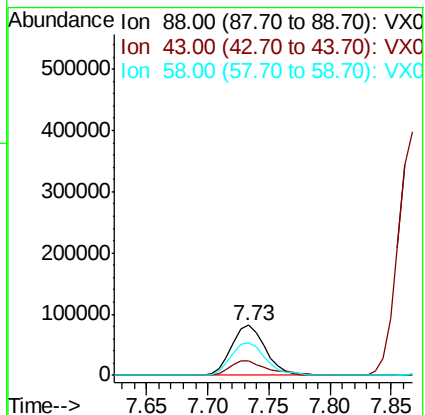
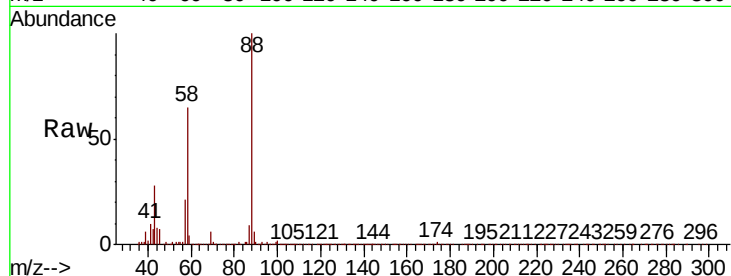
MSVOA\_X

ClientSampleId :

S39-0191MSD

Tot Ion: 88 Resp: 155318

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 33.6  | 25.8  | 38.6  |
| 58  | 68.5  | 54.6  | 82.0  |



#50

Toluene-d8

Concen: 47.472 ug/l

RT: 8.71 min Scan# 1283

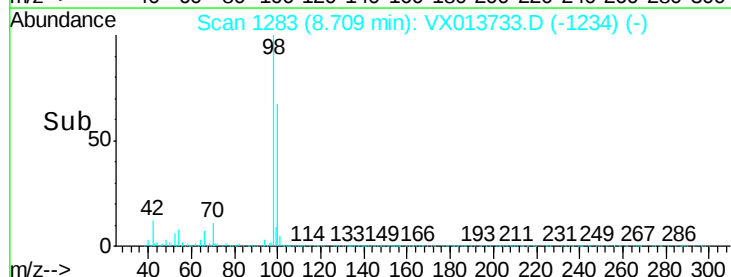
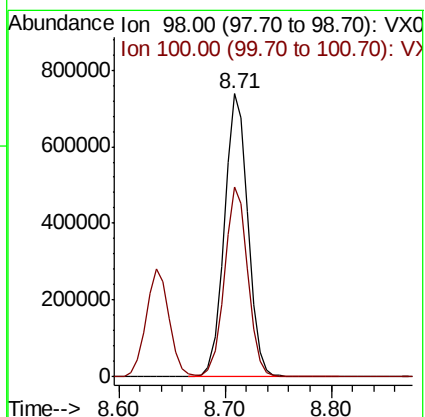
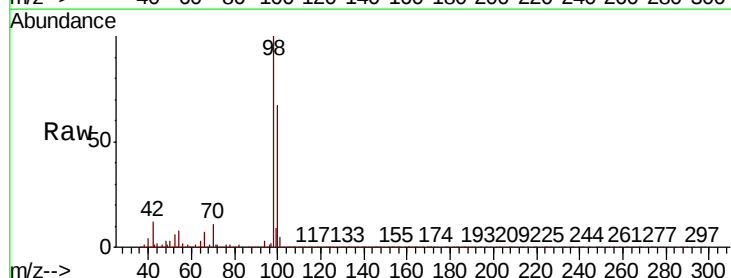
Delta R.T. -0.00 min

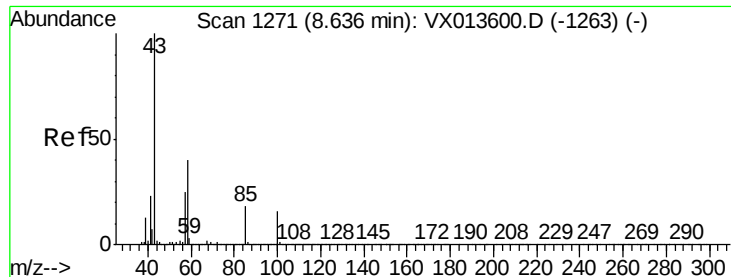
Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Tgt Ion: 98 Resp: 1137085

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 66.6  | 53.1  | 79.7  |





#51

4-Methyl-2-Pentanone

Concen: 248.462 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

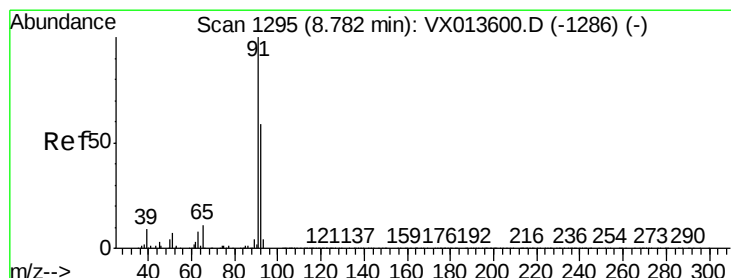
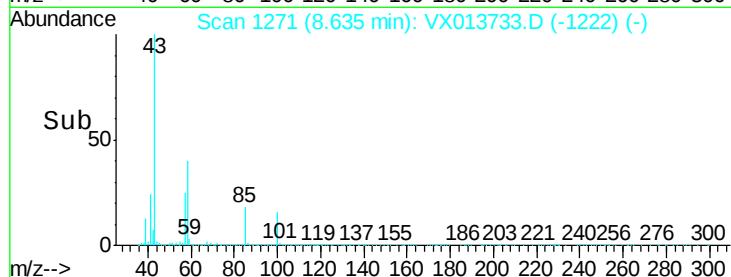
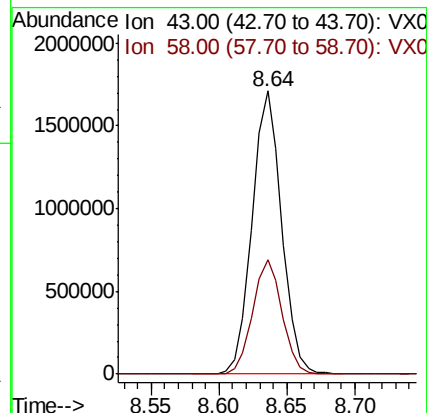
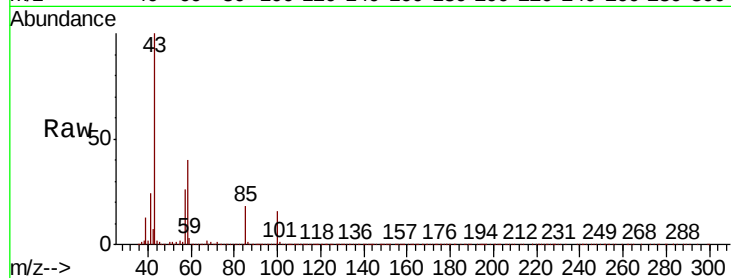
S39-0191MSD

Tot Ion: 43 Resp: 2605731

Ion Ratio Lower Upper

43 100

58 40.3 32.1 48.1



#52

Toluene

Concen: 49.383 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013733.D

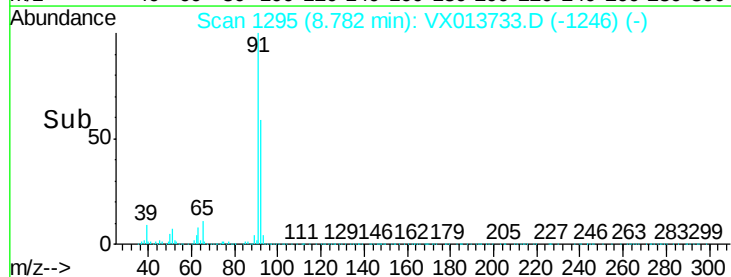
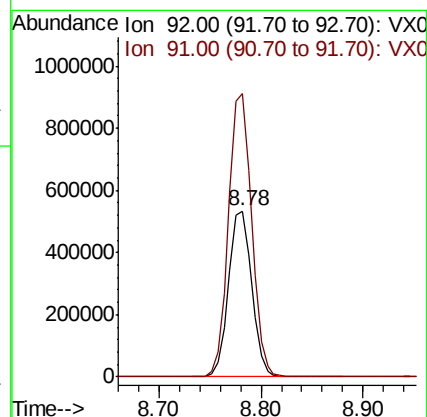
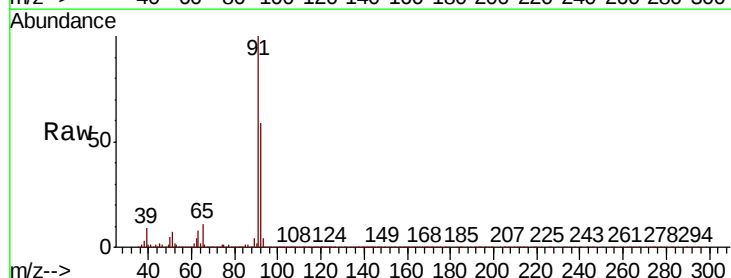
Acq: 03 Dec 2019 18:31

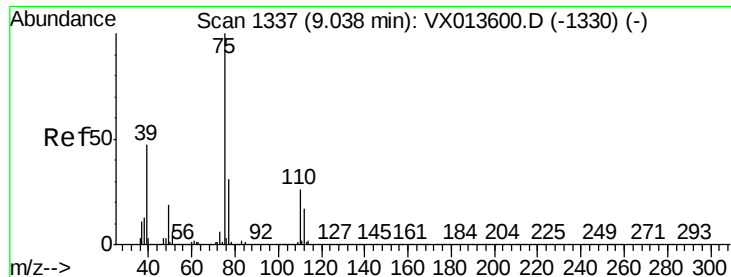
Tgt Ion: 92 Resp: 843486

Ion Ratio Lower Upper

92 100

91 170.5 136.2 204.2

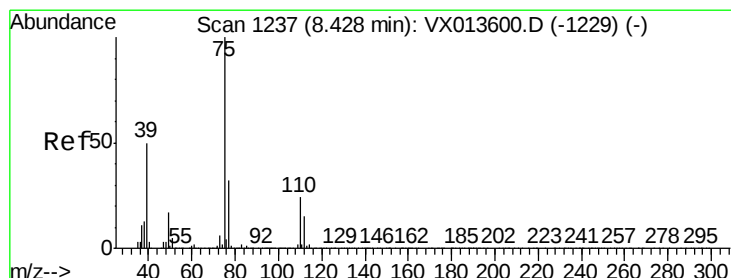
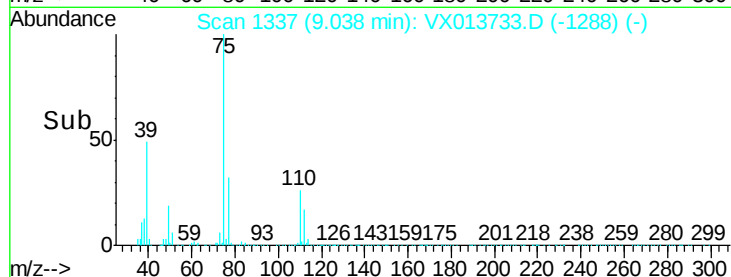
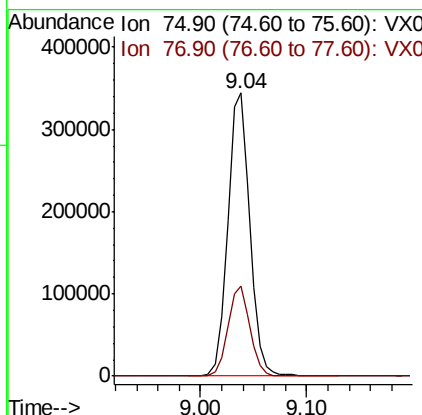
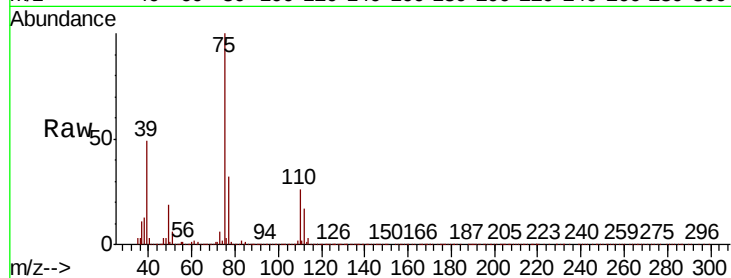




#53  
t-1,3-Dichloropropene  
Concen: 49.453 ug/l  
RT: 9.04 min Scan# 1337  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

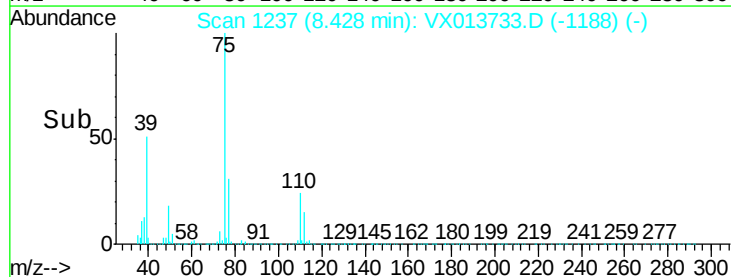
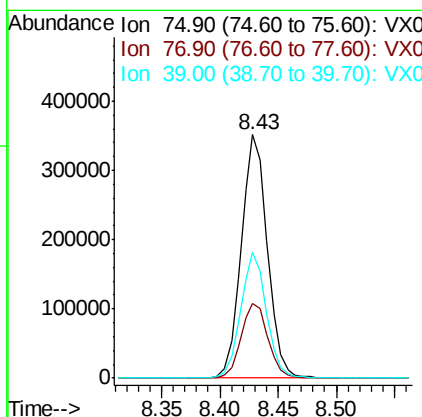
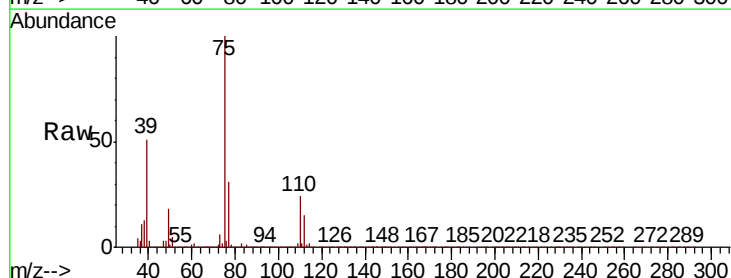
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

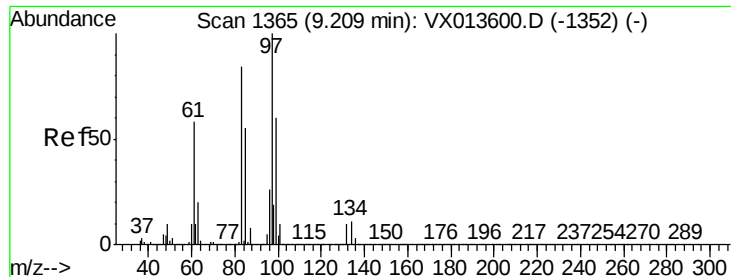
Tot Ion: 75 Resp: 497166  
Ion Ratio Lower Upper  
75 100  
77 31.8 24.4 36.6



#54  
cis-1,3-Dichloropropene  
Concen: 49.982 ug/l  
RT: 8.43 min Scan# 1237  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 75 Resp: 548975  
Ion Ratio Lower Upper  
75 100  
77 30.7 25.8 38.6  
39 51.3 39.9 59.9

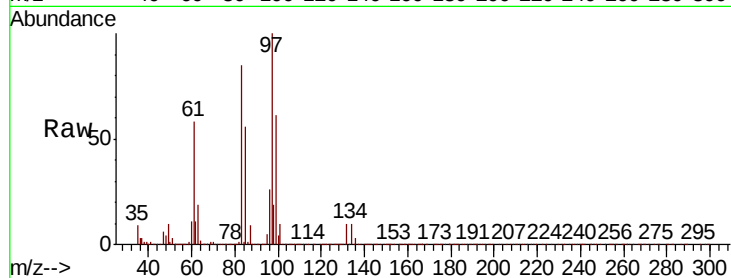




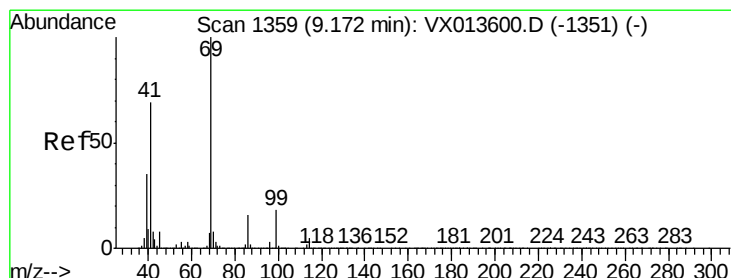
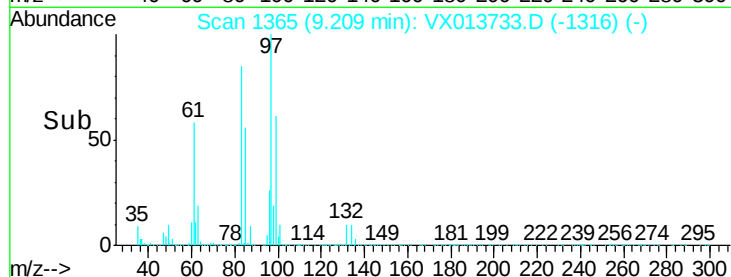
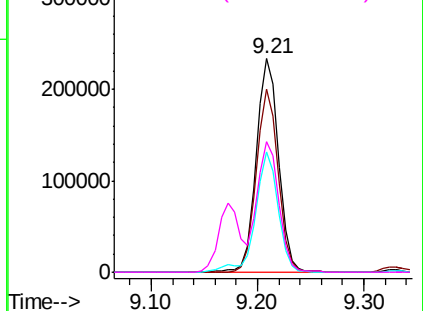
#55  
 1,1,2-Trichloroethane  
 Concen: 49.983 ug/l  
 RT: 9.21 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S39-0191MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 344036 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 85.4  | 67.3  | 100.9  |
| 85       | 56.4  | 43.6  | 65.4   |
| 99       | 61.4  | 48.2  | 72.4   |

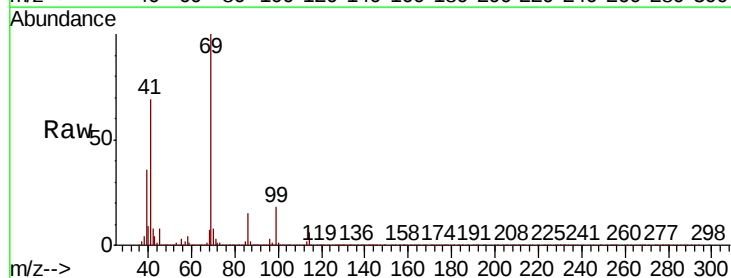


Abundance Ion 96.90 (96.60 to 97.60): VX0  
 Ion 82.90 (82.60 to 83.60): VX0  
 Ion 84.90 (84.60 to 85.60): VX0  
 Ion 98.90 (98.60 to 99.60): VX0

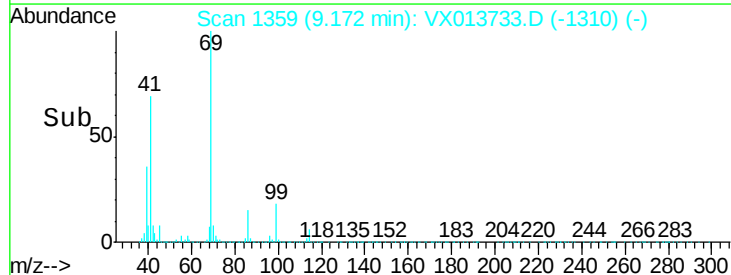
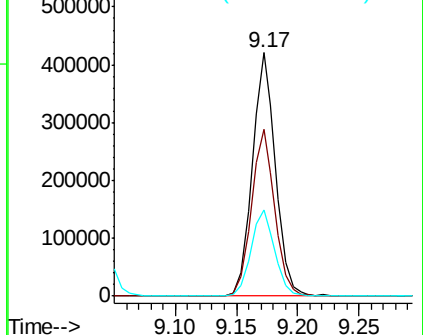


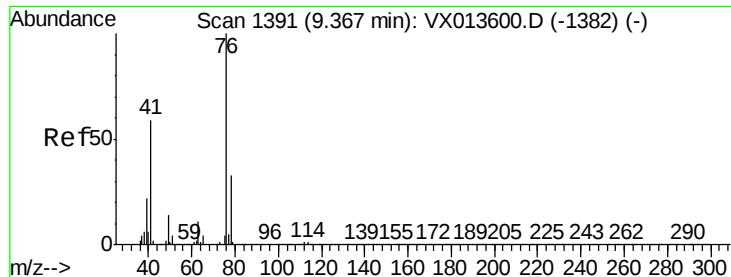
#56  
 Ethyl methacrylate  
 Concen: 50.193 ug/l  
 RT: 9.17 min Scan# 1359  
 Delta R.T. -0.00 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 555447 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 68.8  | 55.0  | 82.4   |
| 39       | 36.4  | 28.7  | 43.1   |



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





#57

1,3-Dichloropropane

Concen: 48.655 ug/l

RT: 9.37 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

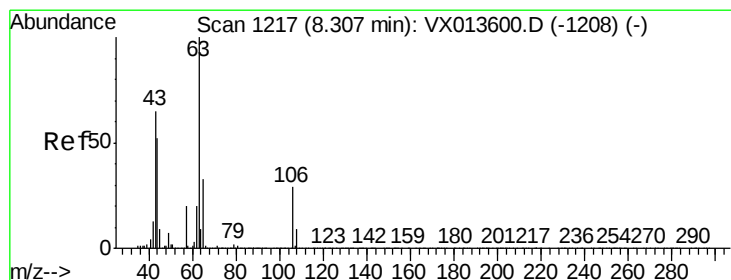
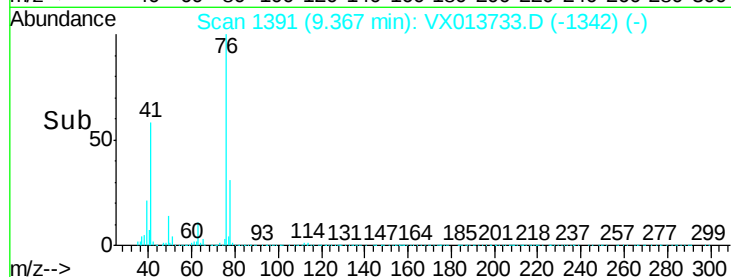
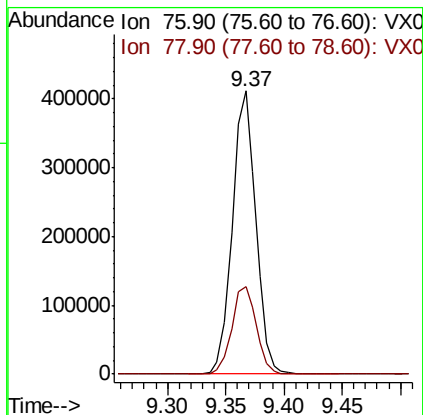
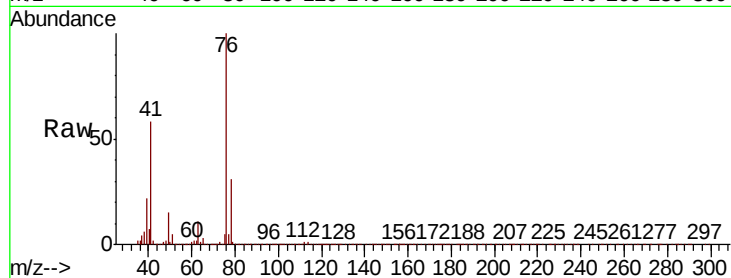
S39-0191MSD

Tot Ion: 76 Resp: 577251

Ion Ratio Lower Upper

76 100

78 32.2 26.0 39.0



#58

2-Chloroethyl Vinyl ether

Concen: 0.224 ug/l

RT: 8.48 min Scan# 1245

Delta R.T. 0.17 min

Lab File: VX013733.D

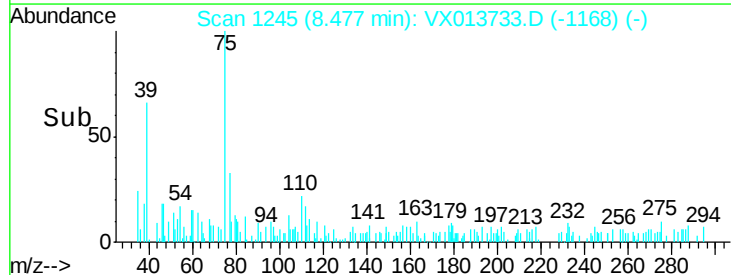
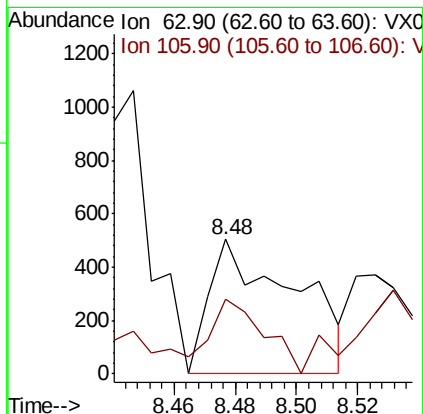
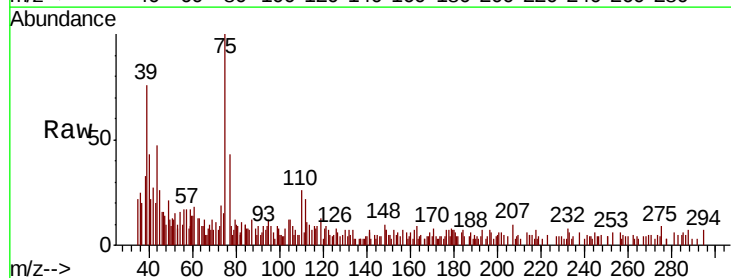
Acq: 03 Dec 2019 18:31

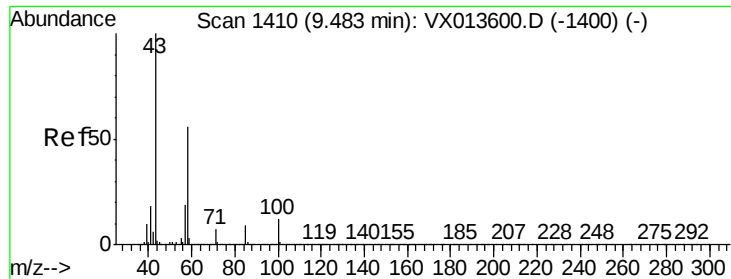
Tgt Ion: 63 Resp: 972

Ion Ratio Lower Upper

63 100

106 34.7 23.4 35.0

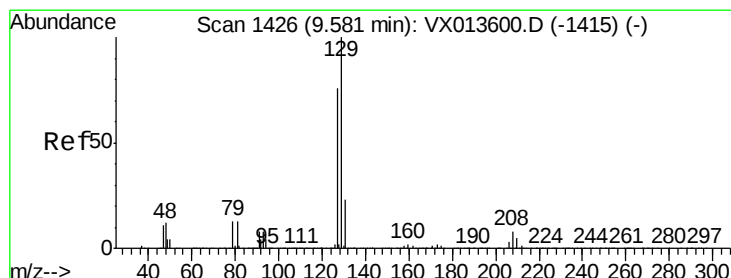
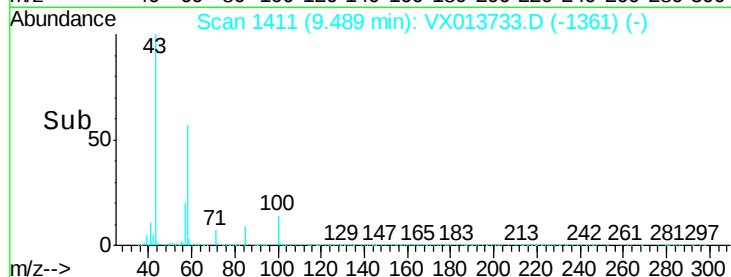
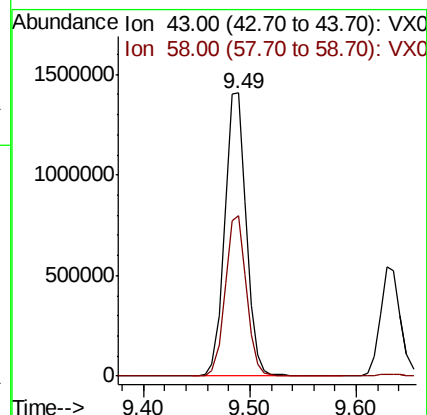
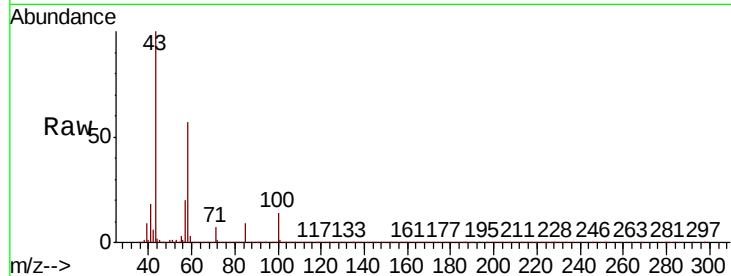




#59  
2-Hexanone  
Concen: 242.636 ug/l  
RT: 9.49 min Scan# 1411  
Delta R.T. 0.01 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

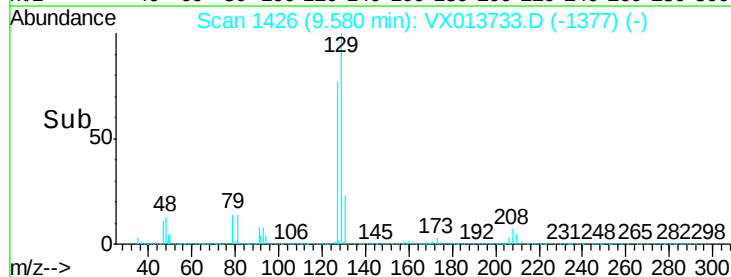
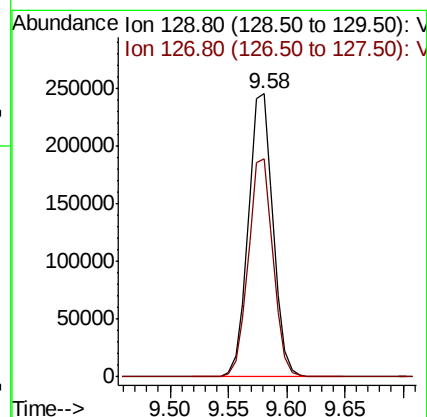
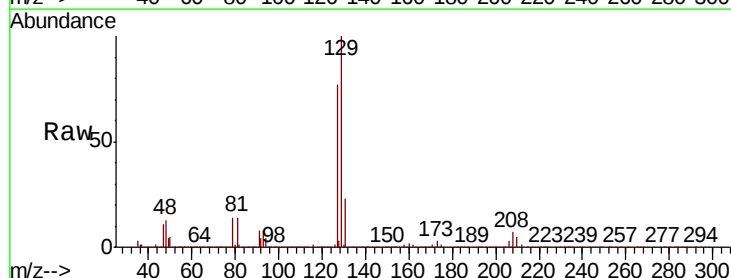
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

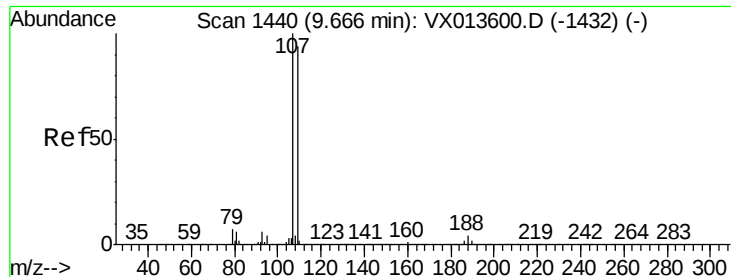
Tot Ion: 43 Resp: 1984620  
Ion Ratio Lower Upper  
43 100  
58 56.2 28.1 84.4



#60  
Dibromochloromethane  
Concen: 51.035 ug/l  
RT: 9.58 min Scan# 1426  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion:129 Resp: 364552  
Ion Ratio Lower Upper  
129 100  
127 77.2 38.5 115.5





#61

1,2-Dibromoethane

Concen: 49.170 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

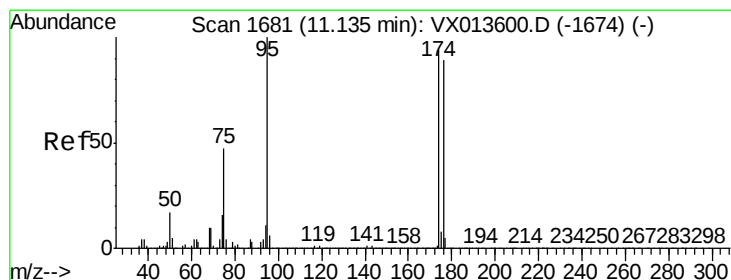
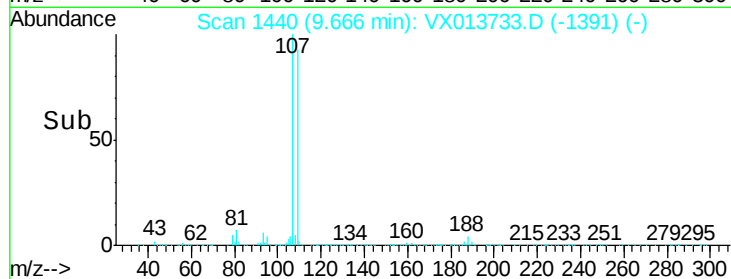
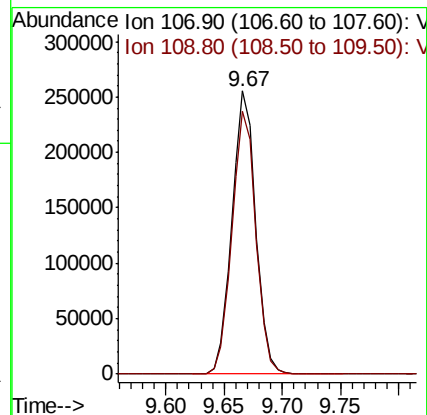
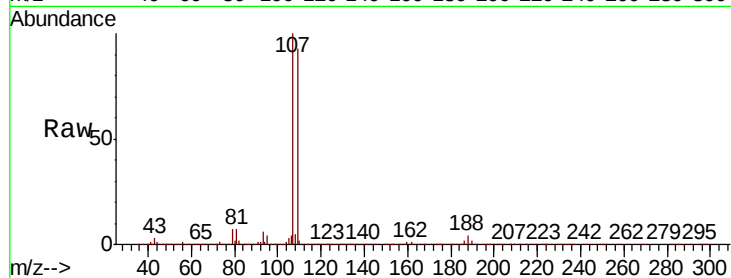
S39-0191MSD

Tot Ion:107 Resp: 361465

Ion Ratio Lower Upper

107 100

109 93.5 76.1 114.1



#62

4-Bromofluorobenzene

Concen: 47.359 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

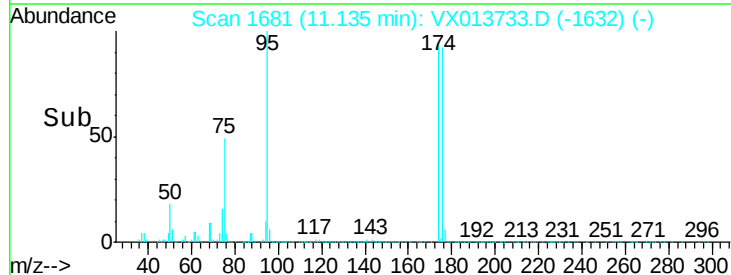
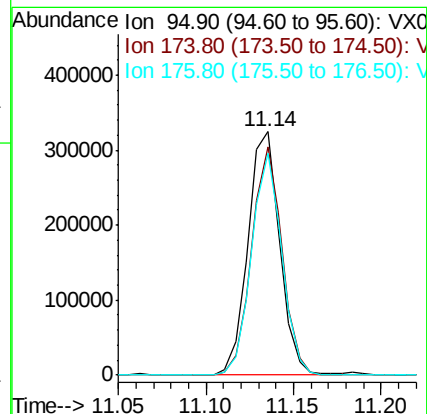
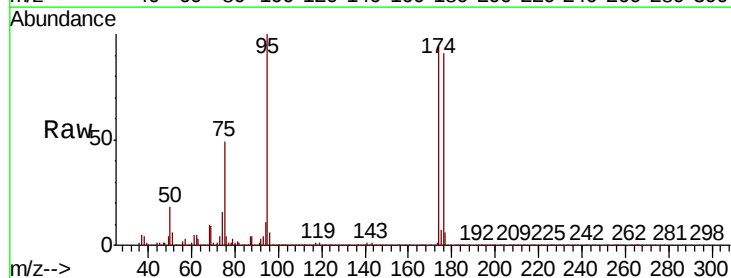
Tgt Ion: 95 Resp: 409064

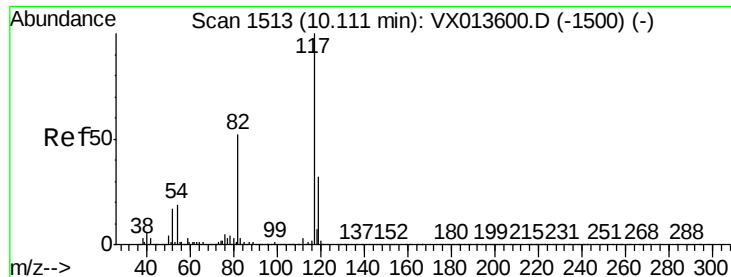
Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.0

176 87.2 0.0 173.6

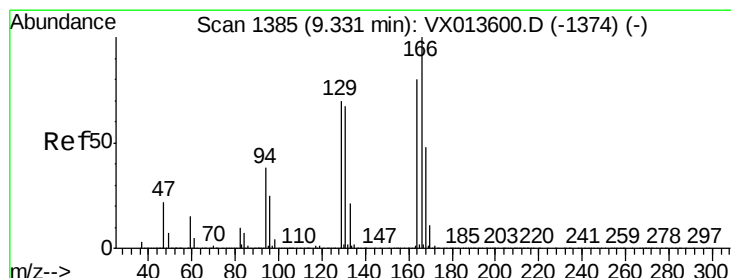
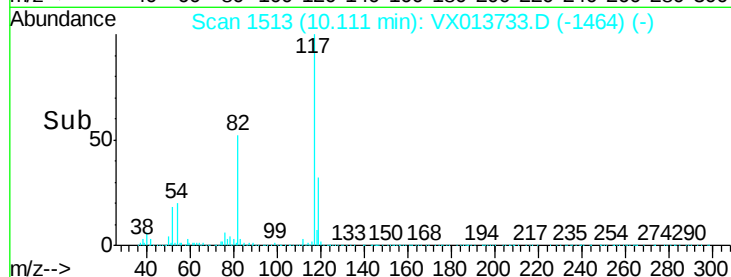
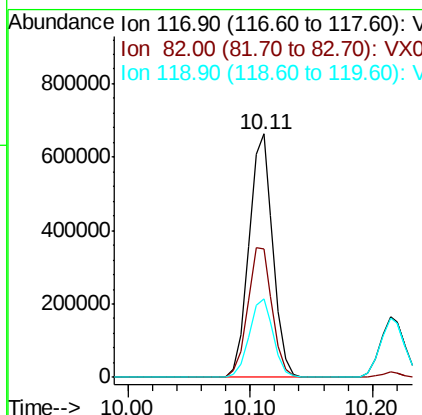
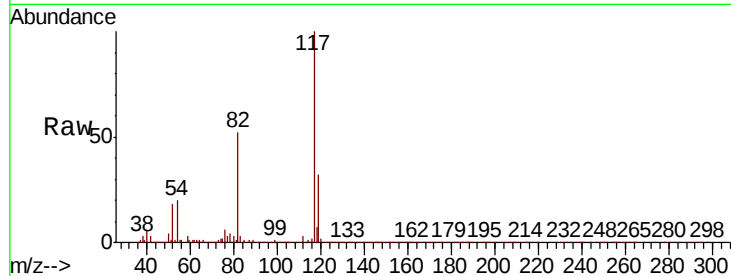




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

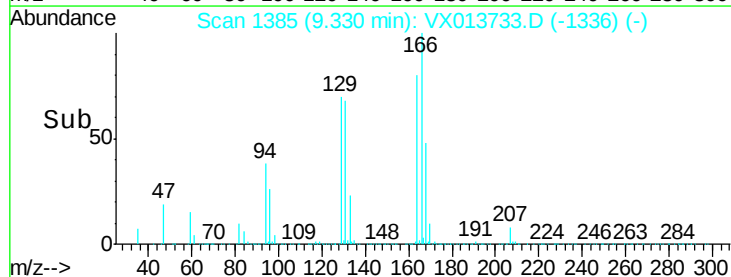
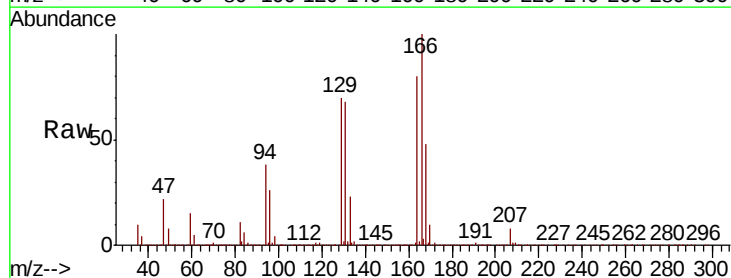
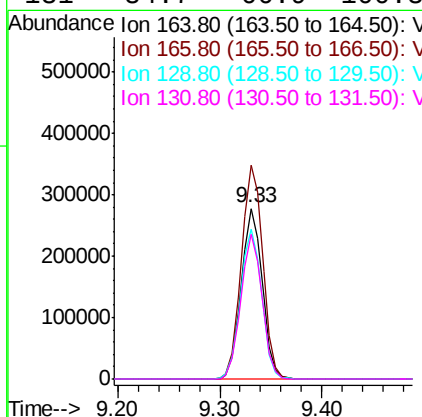
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

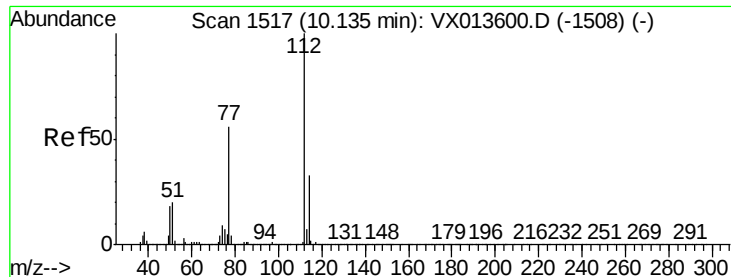
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.5  | 41.8  | 62.8  |
| 119     | 32.0  | 25.8  | 38.8  |



#64  
Tetrachloroethene  
Concen: 58.731 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 125.3 | 99.7  | 149.5 |
| 129     | 87.7  | 70.1  | 105.1 |
| 131     | 84.7  | 66.9  | 100.3 |





#65

Chlorobenzene

Concen: 48.281 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

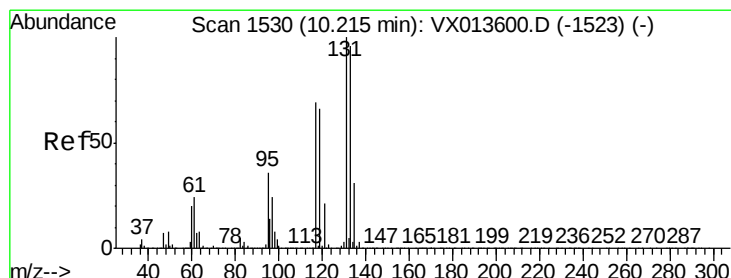
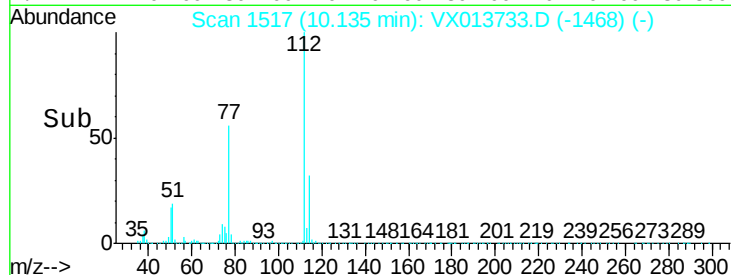
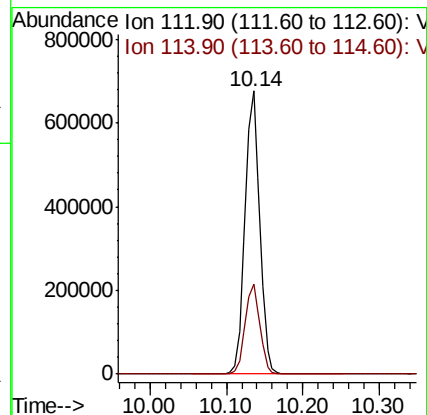
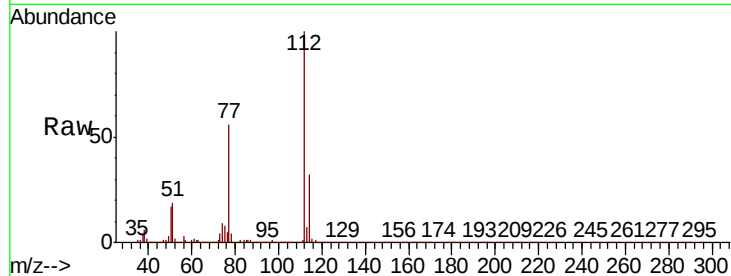
S39-0191MSD

Tot Ion:112 Resp: 900719

Ion Ratio Lower Upper

112 100

114 31.6 26.1 39.1



#66

1,1,1,2-Tetrachloroethane

Concen: 50.439 ug/l

RT: 10.21 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

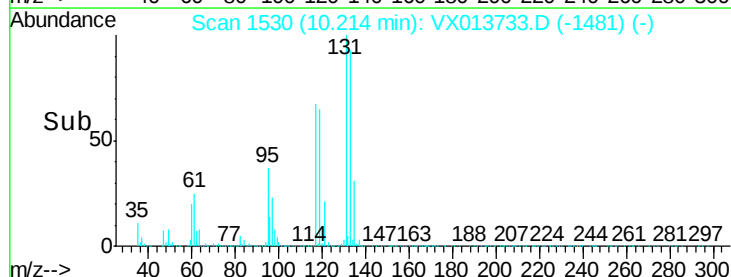
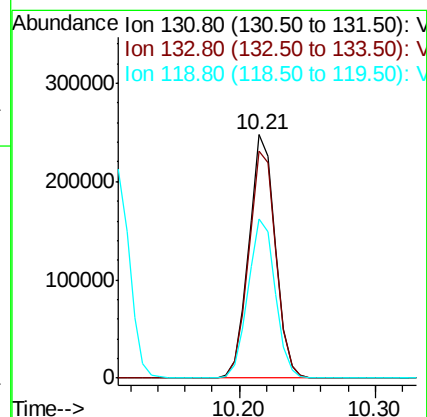
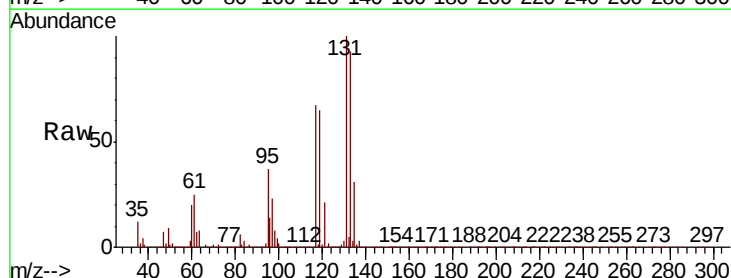
Tgt Ion:131 Resp: 337897

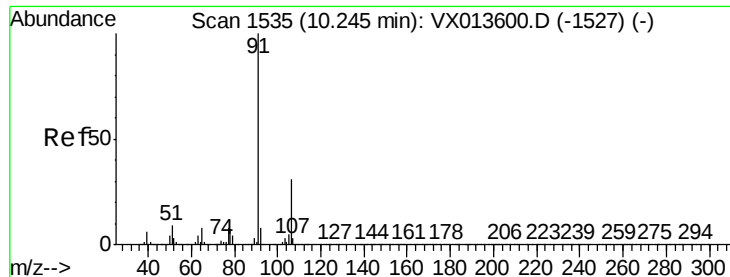
Ion Ratio Lower Upper

131 100

133 95.4 47.7 143.1

119 66.9 32.9 98.6

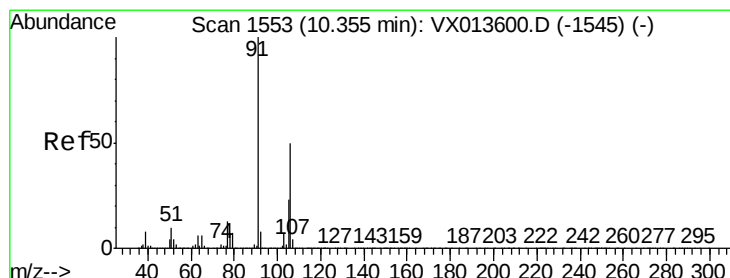
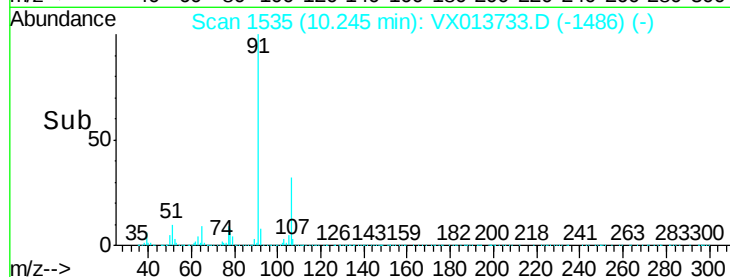
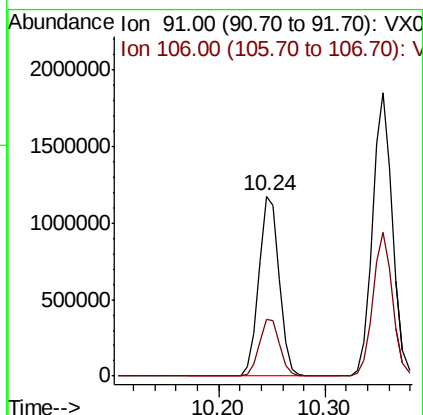
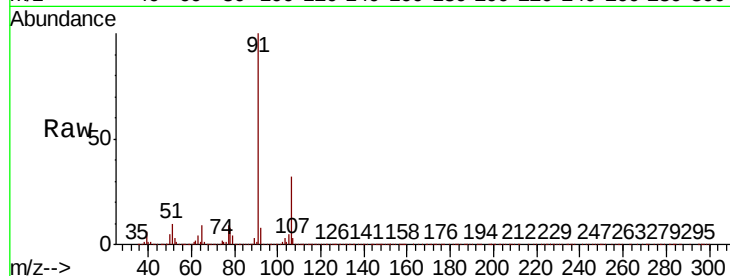




#67  
Ethyl Benzene  
Concen: 49.236 ug/l  
RT: 10.24 min Scan# 1535  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

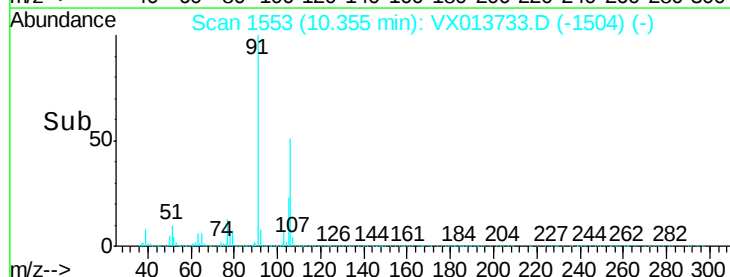
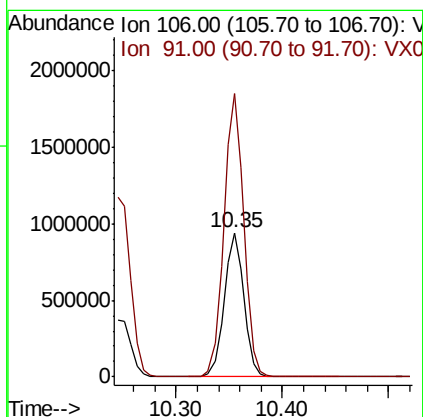
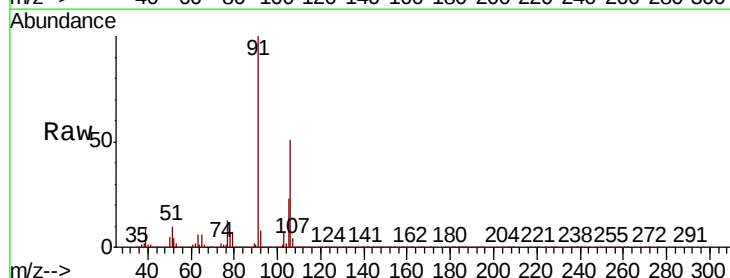
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

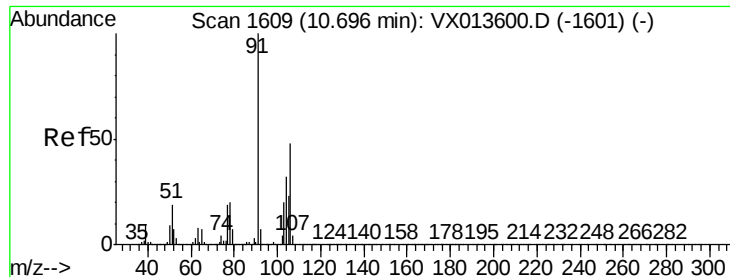
Tot Ion: 91 Resp: 1578399  
Ion Ratio Lower Upper  
91 100  
106 31.7 24.5 36.7



#68  
m/p-Xylenes  
Concen: 98.153 ug/l  
RT: 10.35 min Scan# 1553  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 106 Resp: 1204691  
Ion Ratio Lower Upper  
106 100  
91 199.2 159.0 238.4

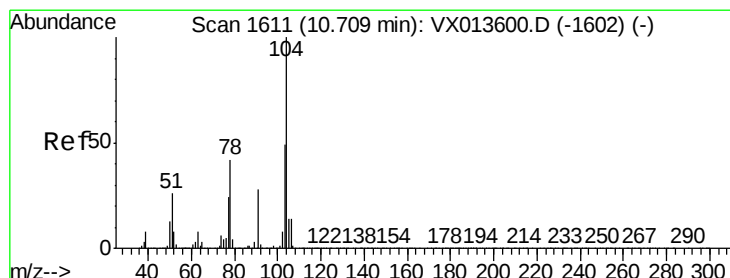
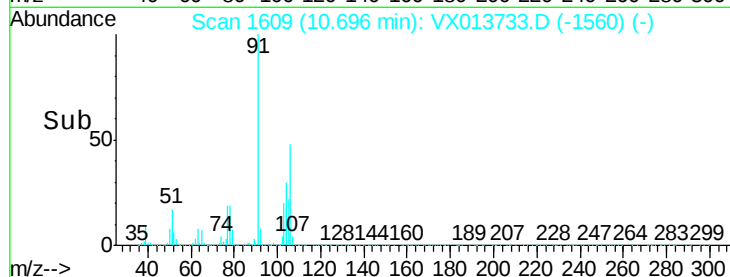
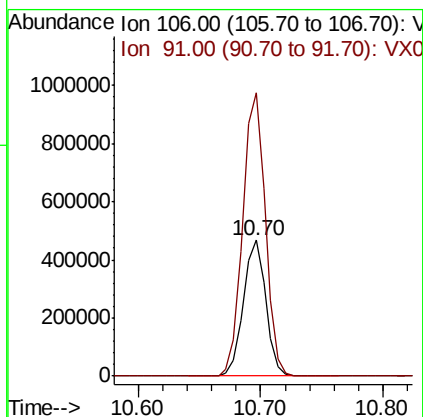
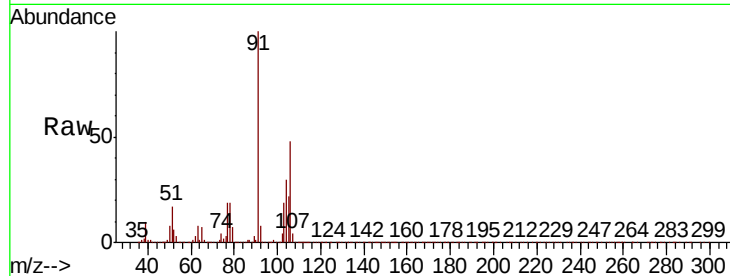




#69  
o-Xylene  
Concen: 49.337 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

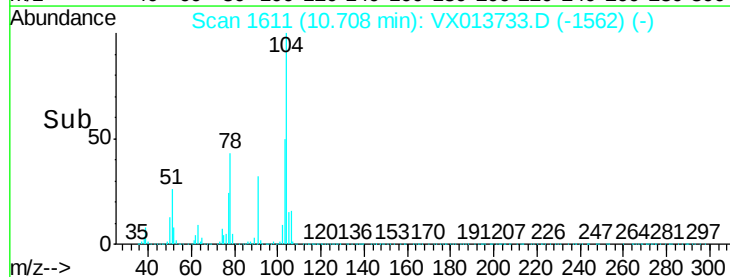
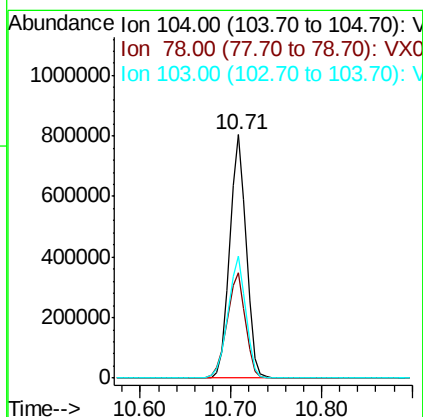
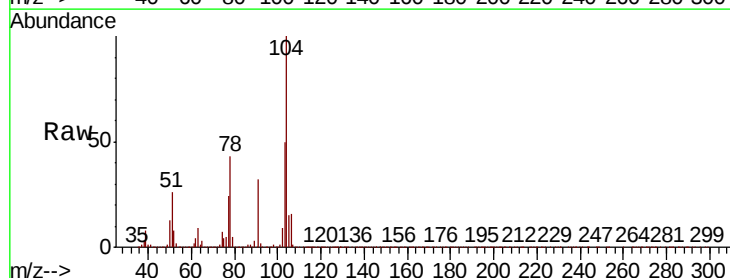
Instrument :  
MSVOA\_X  
ClientSampled :  
S39-0191MSD

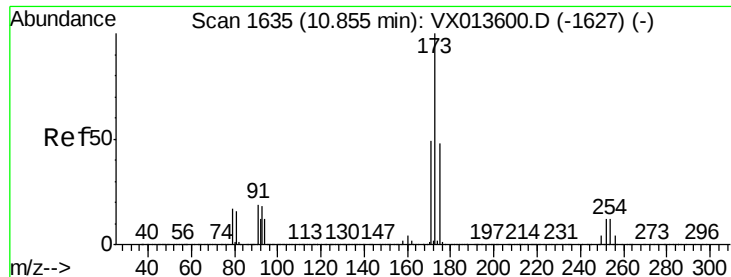
Tot Ion:106 Resp: 590588  
Ion Ratio Lower Upper  
106 100  
91 210.2 104.1 312.2



#70  
Styrene  
Concen: 50.505 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion:104 Resp: 1016986  
Ion Ratio Lower Upper  
104 100  
78 48.2 38.5 57.7  
103 53.9 43.7 65.5

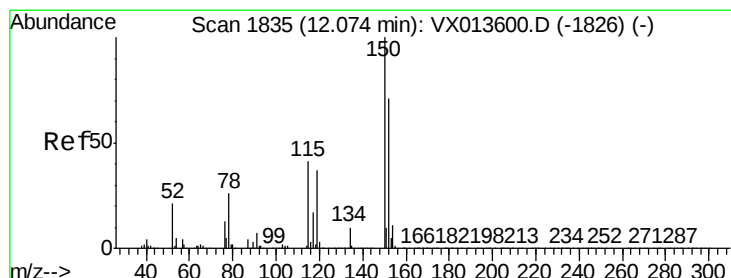
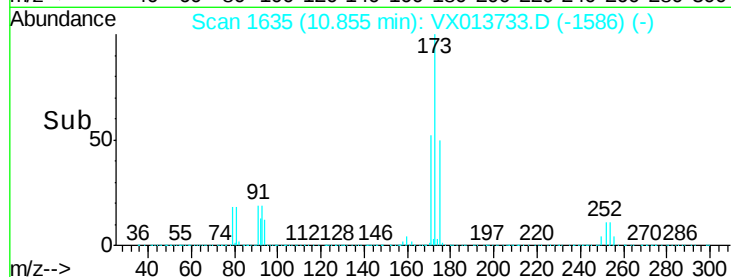
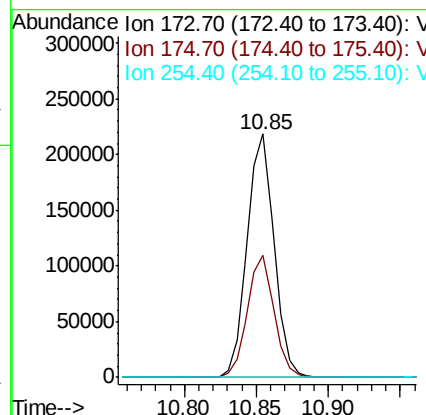
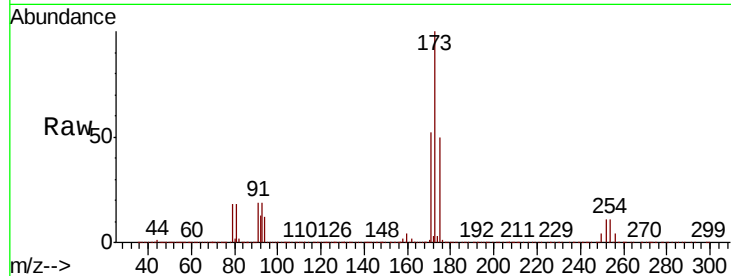




#71  
Bromoform  
Concen: 50.940 ug/l  
RT: 10.85 min Scan# 1635  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

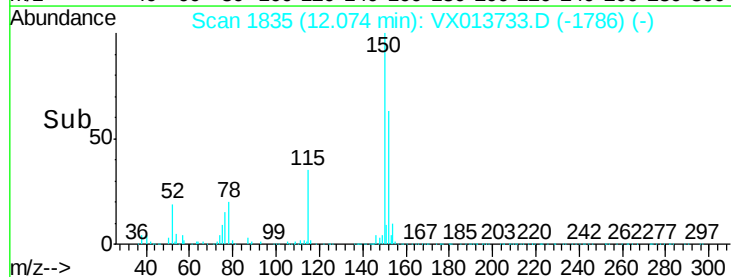
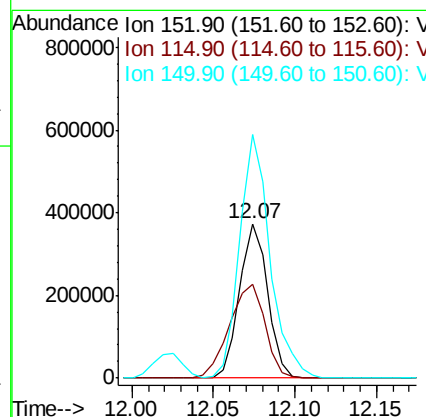
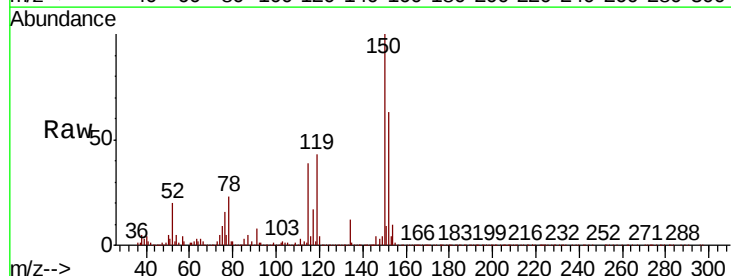
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

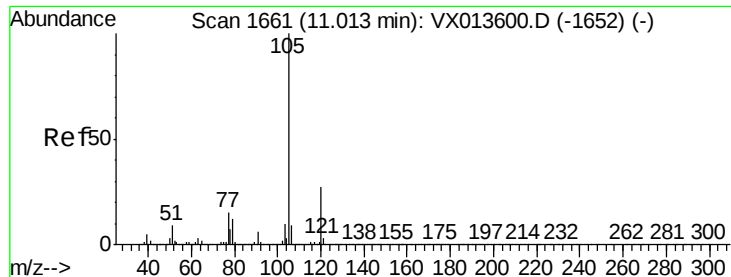
Tot Ion:173 Resp: 282362  
Ion Ratio Lower Upper  
173 100  
175 49.7 24.3 72.8  
254 0.3 0.2 0.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion:152 Resp: 447207  
Ion Ratio Lower Upper  
152 100  
115 77.1 38.4 115.1  
150 171.1 0.0 346.8





#73

Isopropylbenzene

Concen: 49.758 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

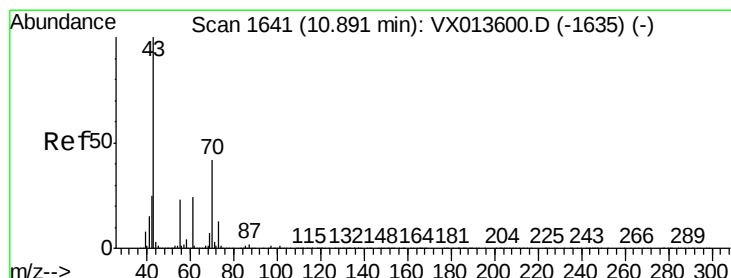
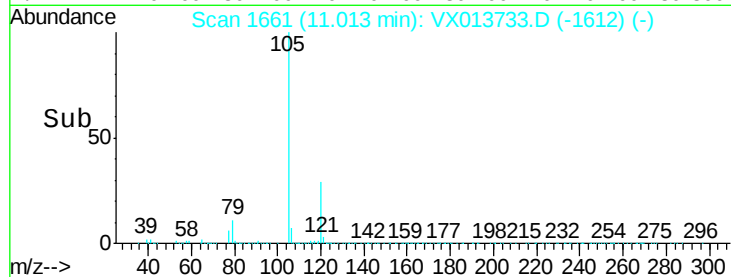
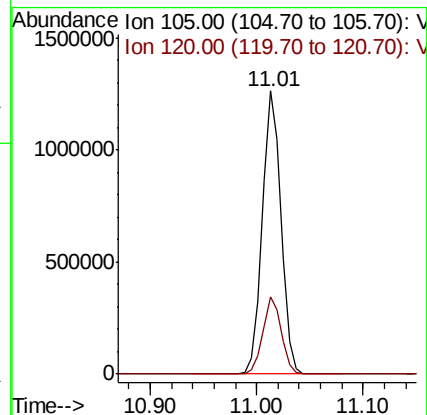
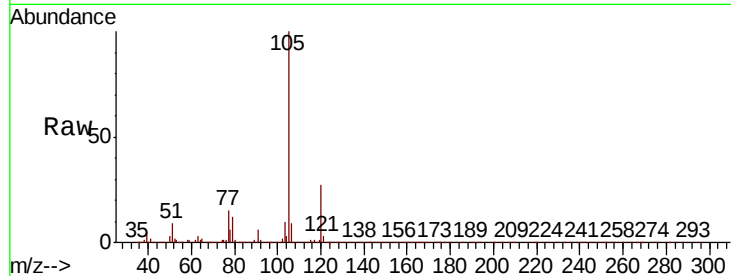
S39-0191MSD

Tot Ion:105 Resp: 1560900

Ion Ratio Lower Upper

105 100

120 27.0 13.5 40.5



#74

N-ethyl acetate

Concen: 49.746 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Tgt Ion: 43 Resp: 714861

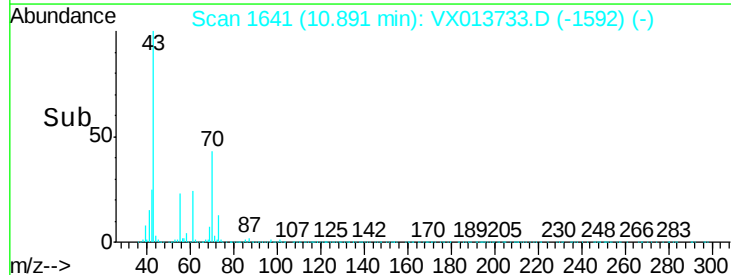
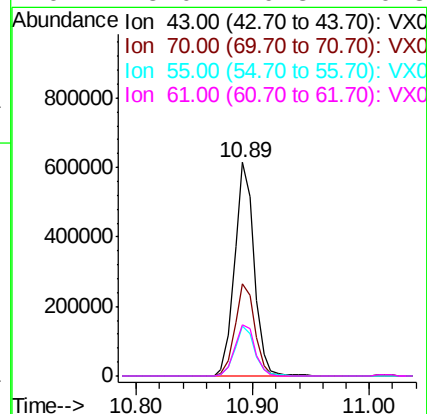
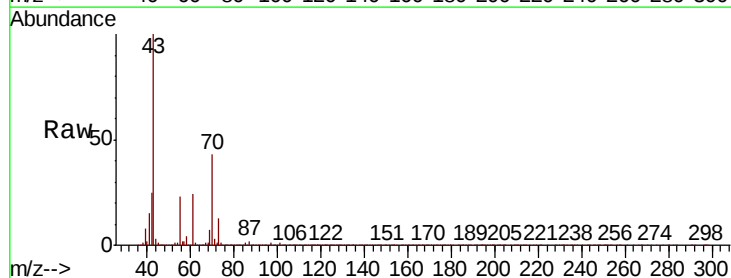
Ion Ratio Lower Upper

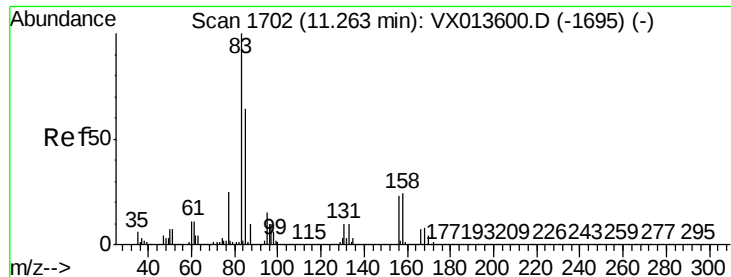
43 100

70 44.0 34.3 51.5

55 24.0 18.5 27.7

61 25.0 19.8 29.8





#75

1,1,2,2-Tetrachloroethane

Concen: 50.529 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

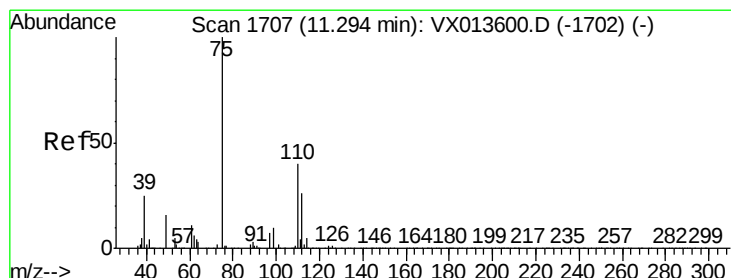
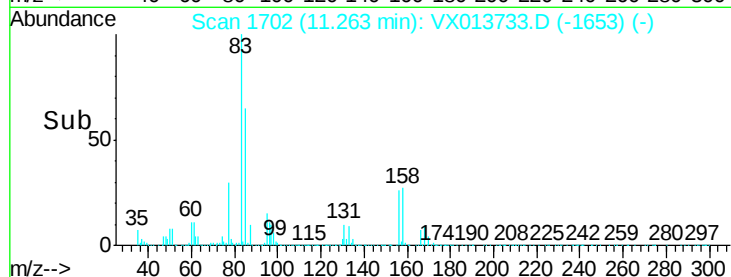
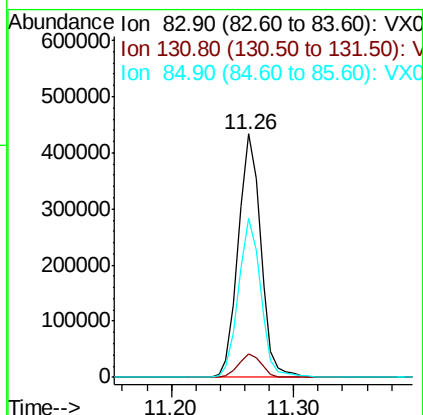
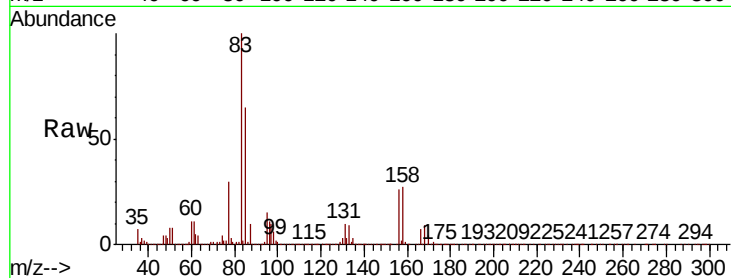
Tot Ion: 83 Resp: 549705

Ion Ratio Lower Upper

83 100

131 9.9 5.1 15.3

85 64.7 31.8 95.3



#76

1,2,3-Trichloropropane

Concen: 61.346 ug/l

RT: 11.29 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX013733.D

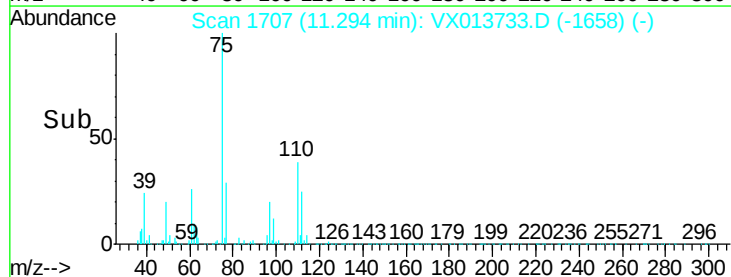
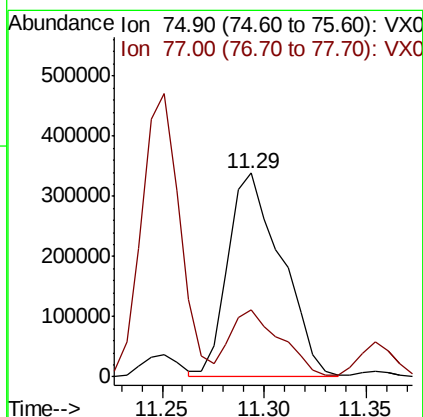
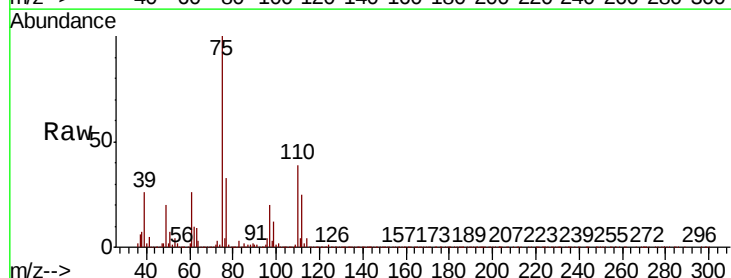
Acq: 03 Dec 2019 18:31

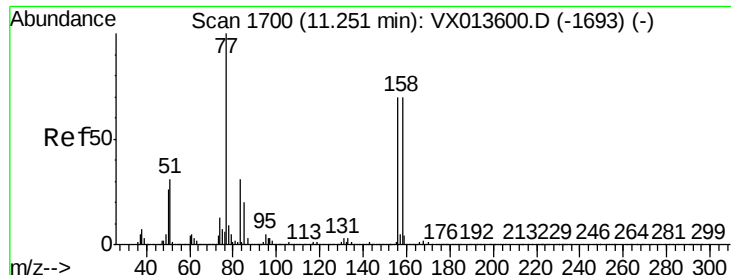
Tgt Ion: 75 Resp: 617050

Ion Ratio Lower Upper

75 100

77 31.3 19.1 57.5





#77

Bromobenzene

Concen: 48.399 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

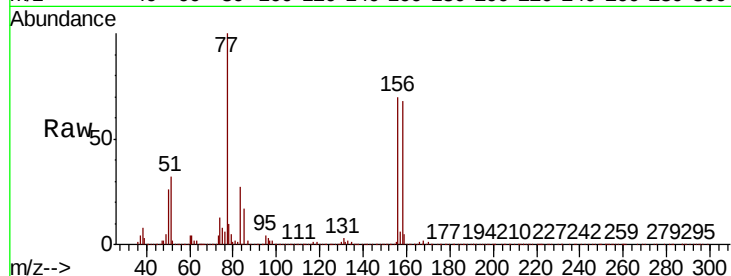
Tot Ion:156 Resp: 410169

Ion Ratio Lower Upper

156 100

77 149.3 74.4 223.1

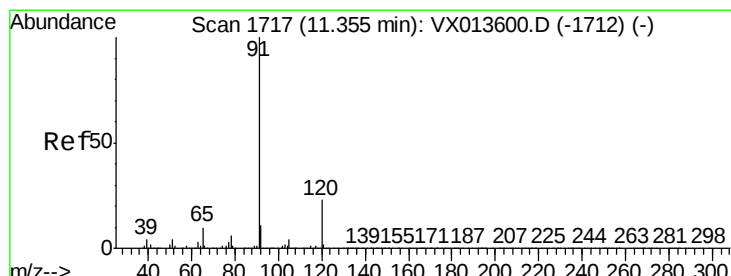
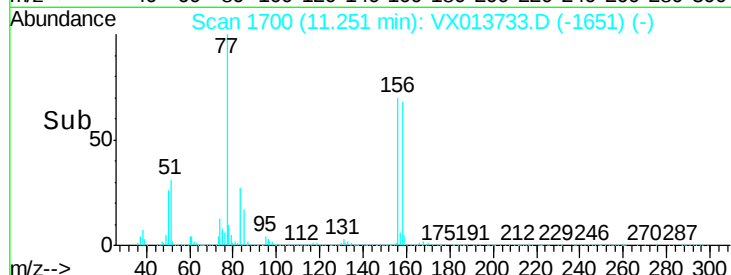
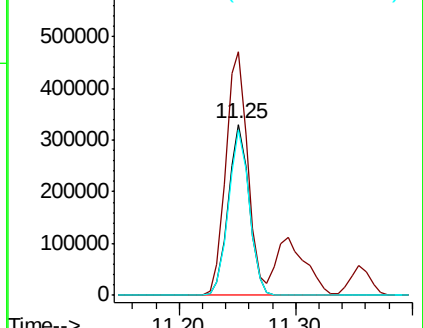
158 96.8 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 50.363 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013733.D

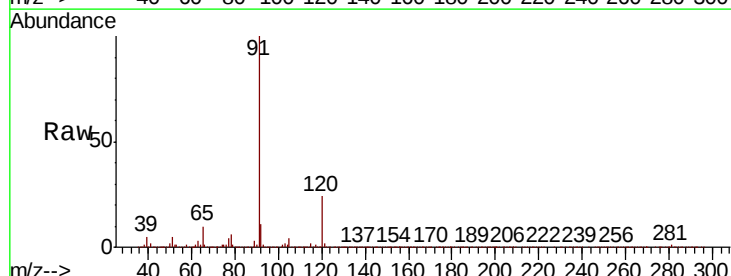
Acq: 03 Dec 2019 18:31

Tgt Ion: 91 Resp: 1763649

Ion Ratio Lower Upper

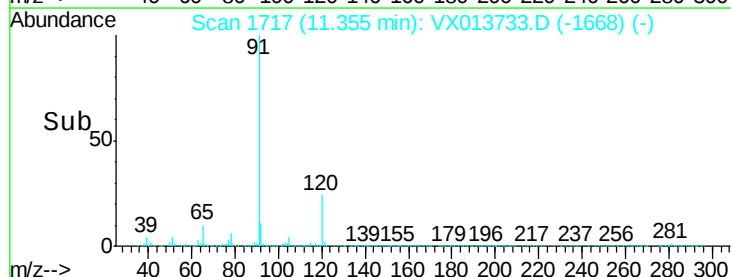
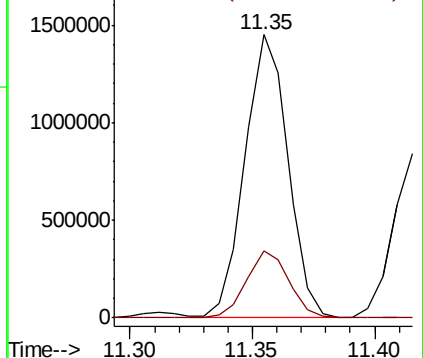
91 100

120 23.5 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.423 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

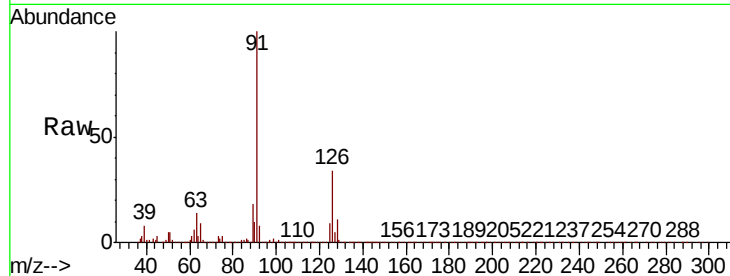
S39-0191MSD

Tot Ion: 91 Resp: 1038200

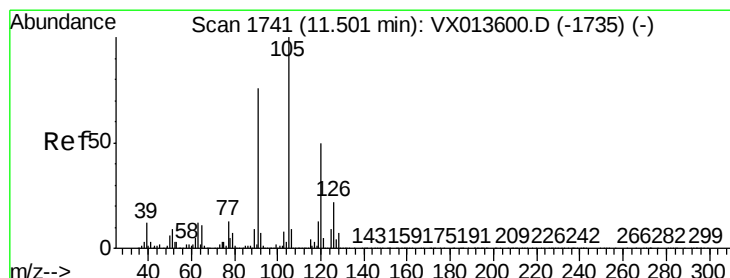
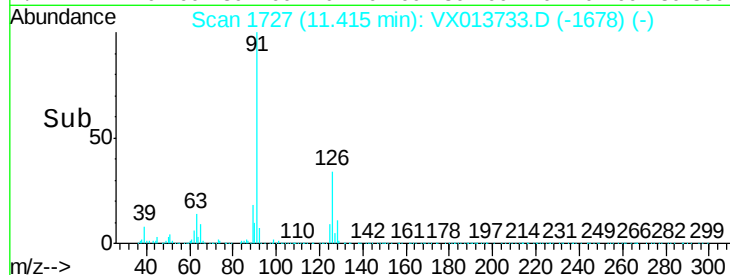
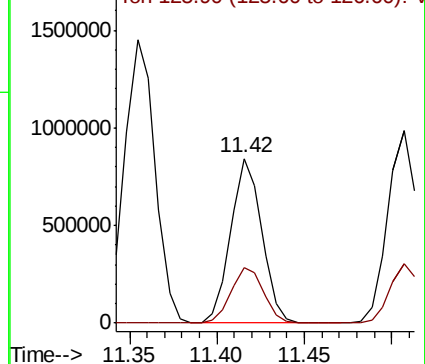
Ion Ratio Lower Upper

91 100

126 35.1 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VX013733.D (-1678) (-)



#80

1,3,5-Trimethylbenzene

Concen: 51.902 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013733.D

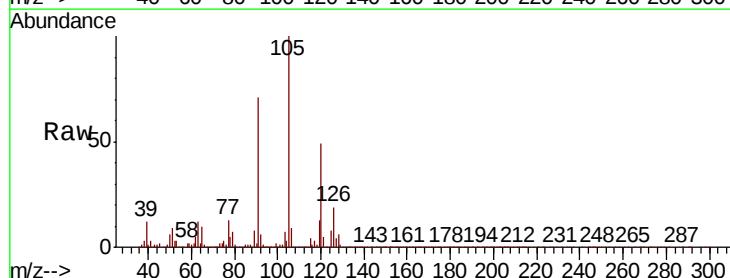
Acq: 03 Dec 2019 18:31

Tgt Ion: 105 Resp: 1334413

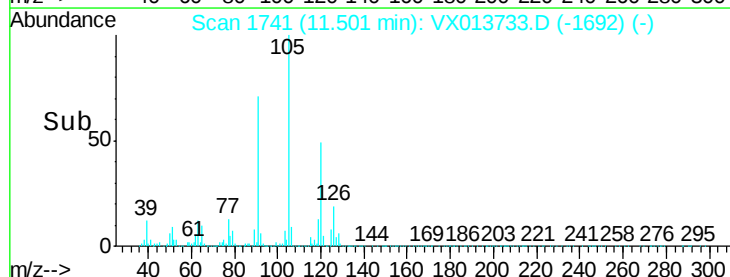
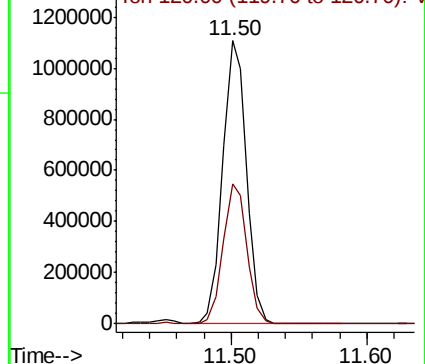
Ion Ratio Lower Upper

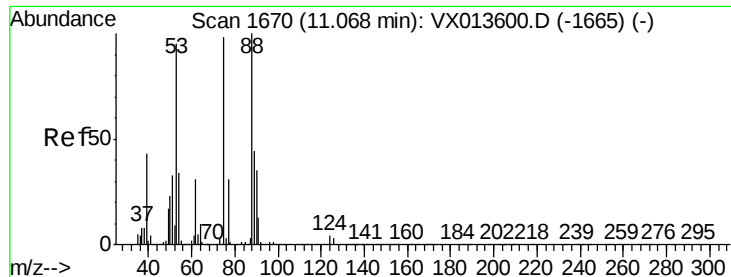
105 100

120 49.6 25.3 75.9



Abundance Ion 105.00 (104.70 to 105.70): VX013733.D (-1692) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 48.310 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

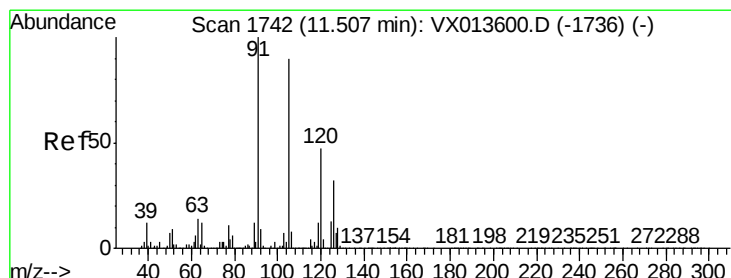
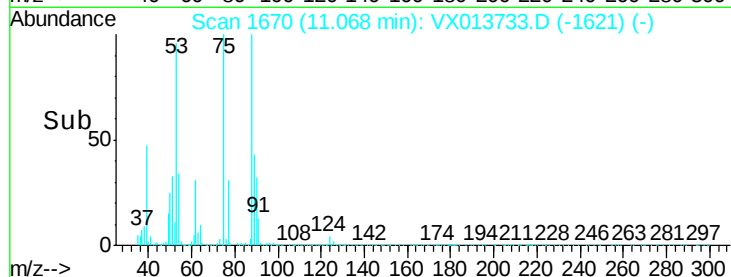
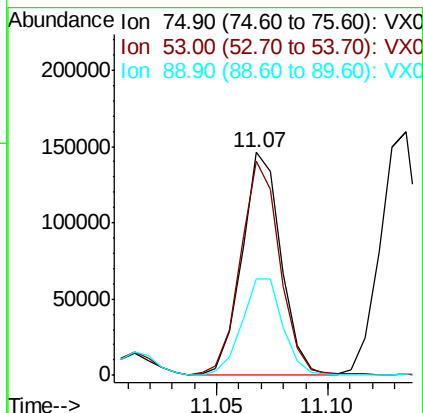
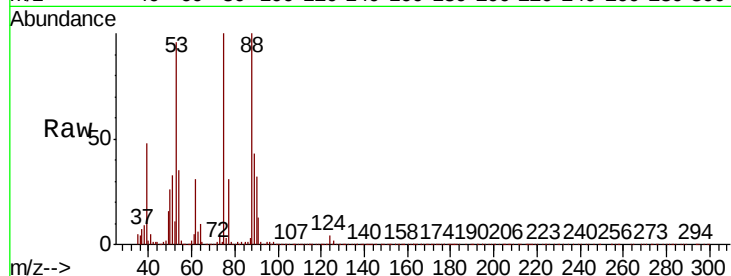
Tot Ion: 75 Resp: 177617

Ion Ratio Lower Upper

75 100

53 96.6 78.2 117.2

89 45.2 35.4 53.2



#82

4-Chlorotoluene

Concen: 48.697 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VX013733.D

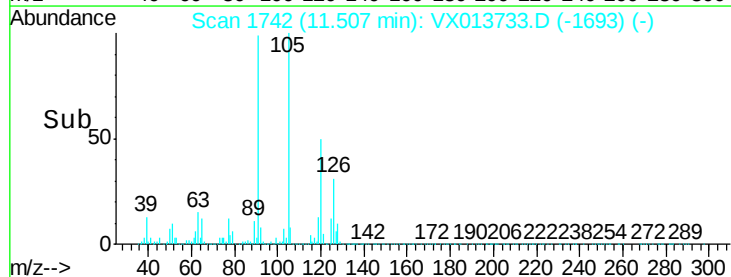
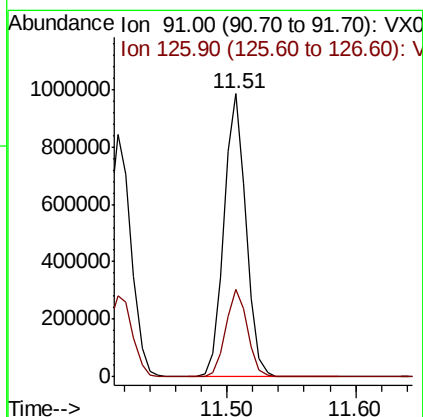
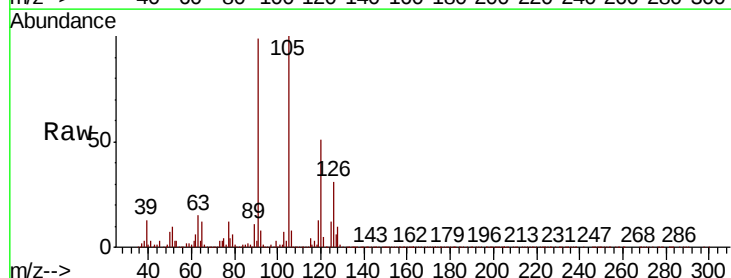
Acq: 03 Dec 2019 18:31

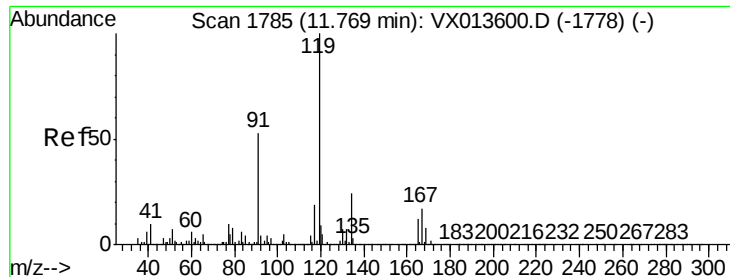
Tgt Ion: 91 Resp: 1184808

Ion Ratio Lower Upper

91 100

126 30.6 15.7 47.0





#83

tert-Butylbenzene

Concen: 51.397 ug/l

RT: 11.77 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

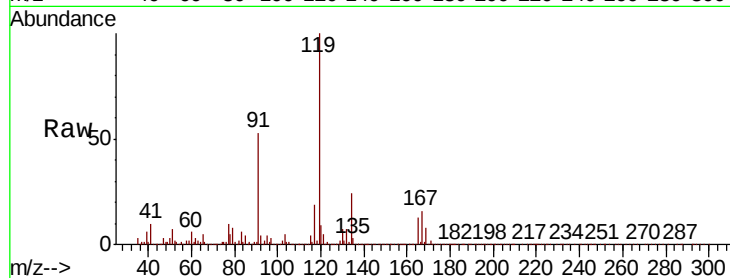
Tot Ion:119 Resp: 1342959

Ion Ratio Lower Upper

119 100

91 53.7 27.2 81.6

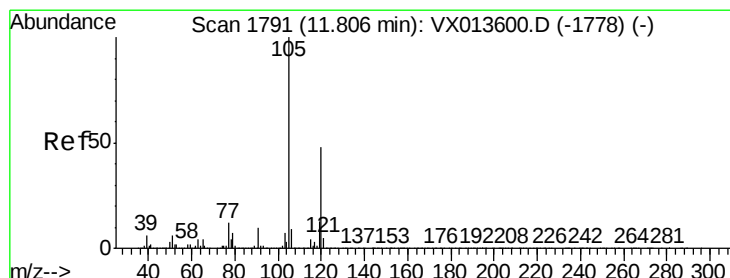
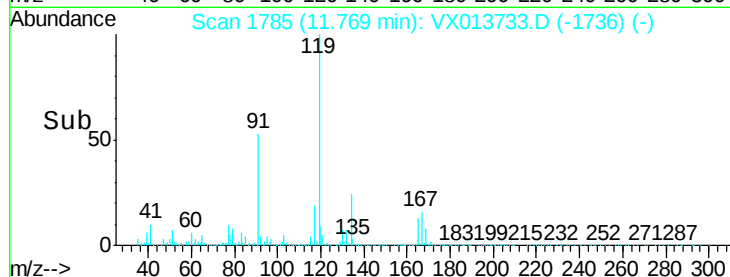
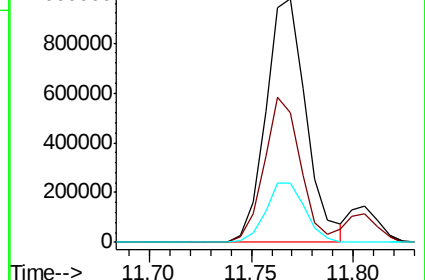
134 23.8 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 53.861 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX013733.D

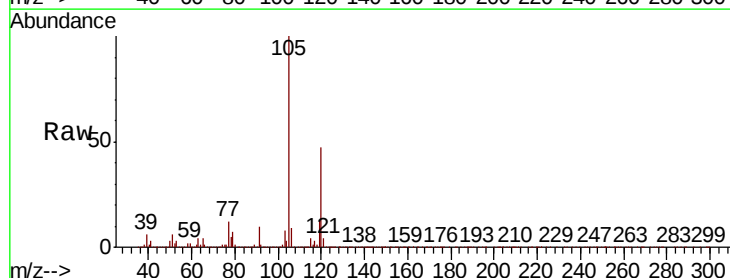
Acq: 03 Dec 2019 18:31

Tgt Ion:105 Resp: 1405433

Ion Ratio Lower Upper

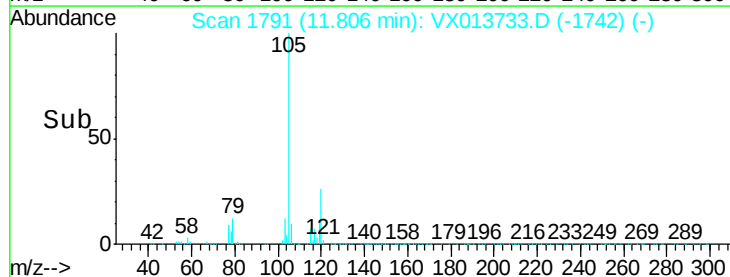
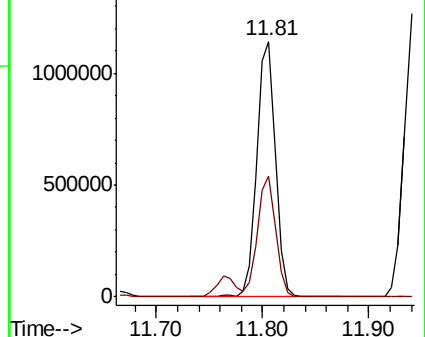
105 100

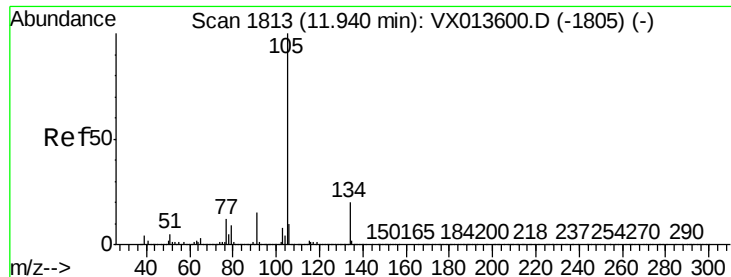
120 46.2 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 51.635 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

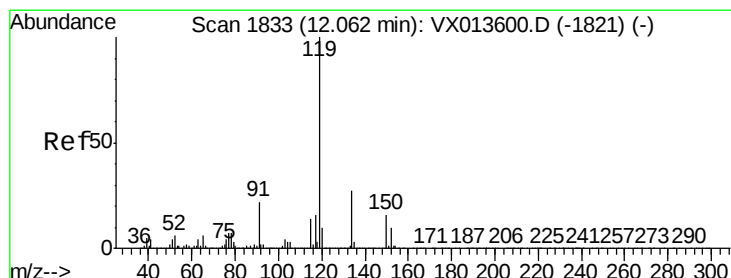
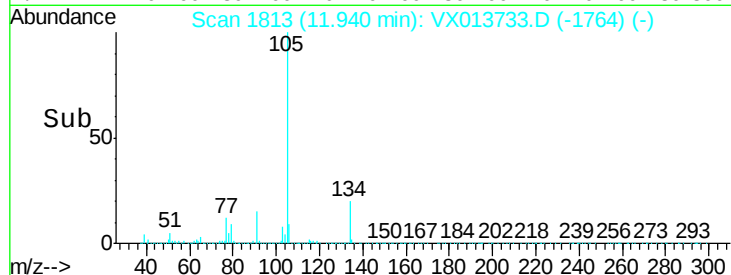
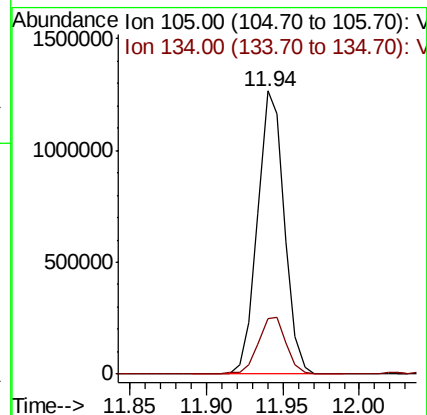
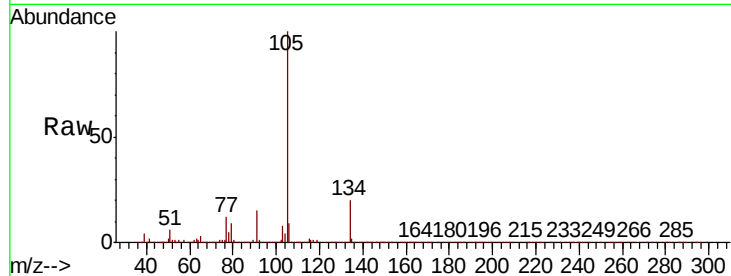
S39-0191MSD

Tot Ion:105 Resp: 1541069

Ion Ratio Lower Upper

105 100

134 21.1 10.4 31.2



#86

p-Isopropyltoluene

Concen: 50.379 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

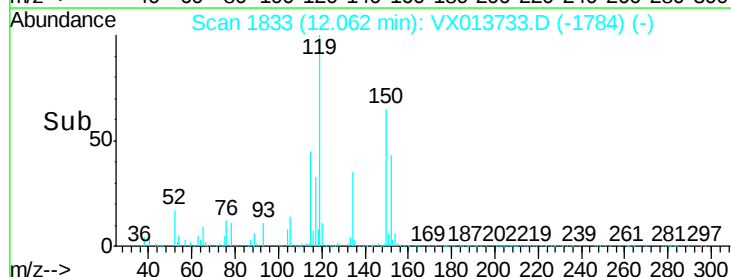
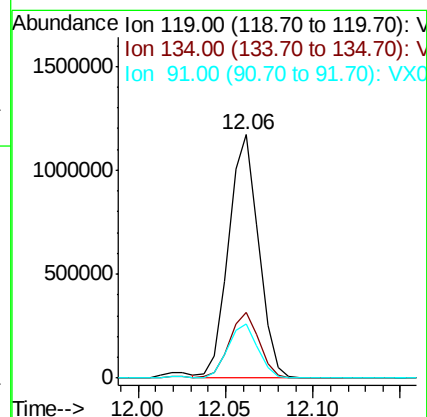
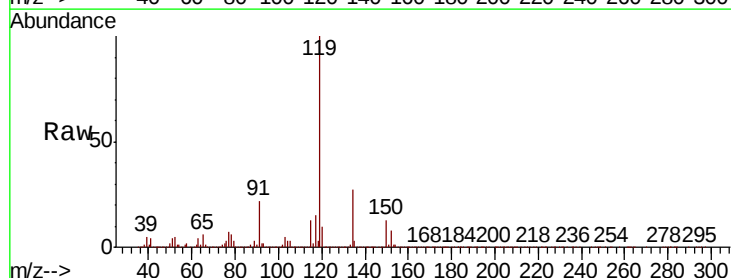
Tgt Ion:119 Resp: 1398766

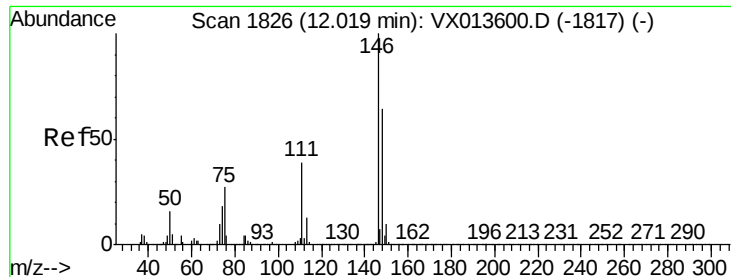
Ion Ratio Lower Upper

119 100

134 26.8 13.3 39.9

91 22.3 11.3 33.8

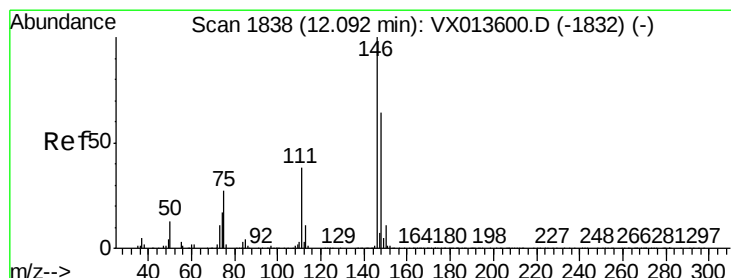
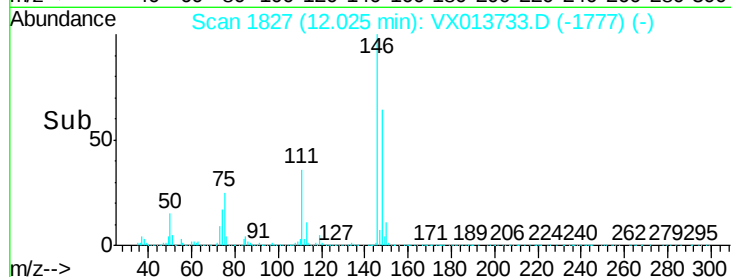
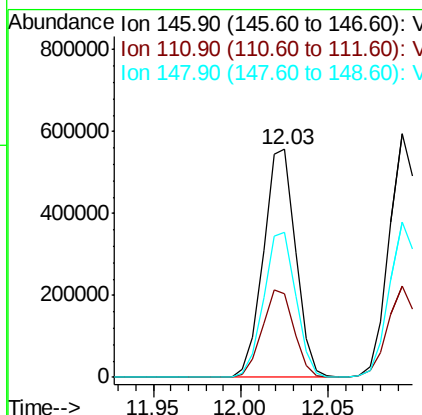
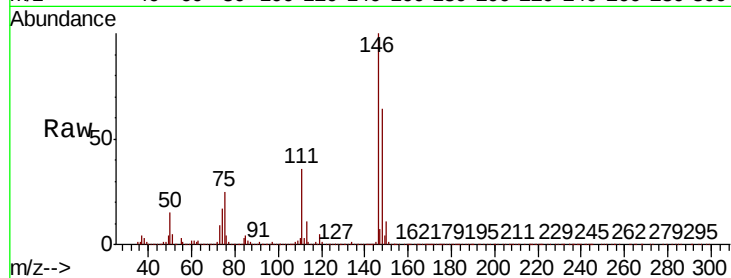




#87  
 1,3-Dichlorobenzene  
 Concen: 48.391 ug/l  
 RT: 12.03 min Scan# 1827  
 Delta R.T. 0.01 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

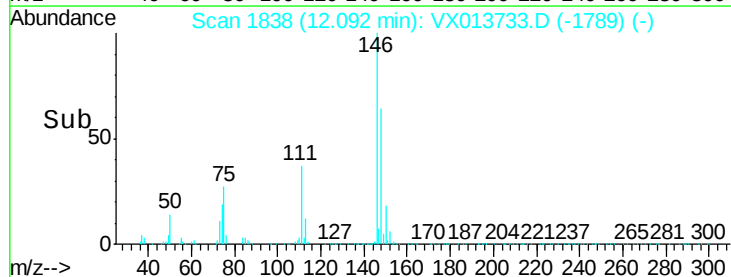
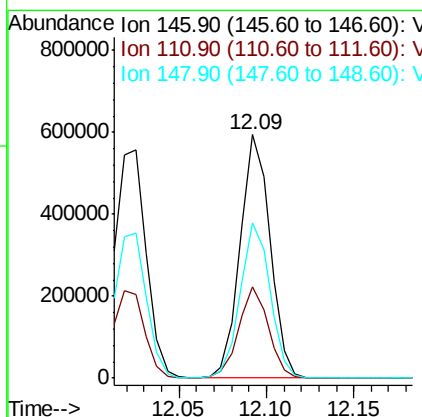
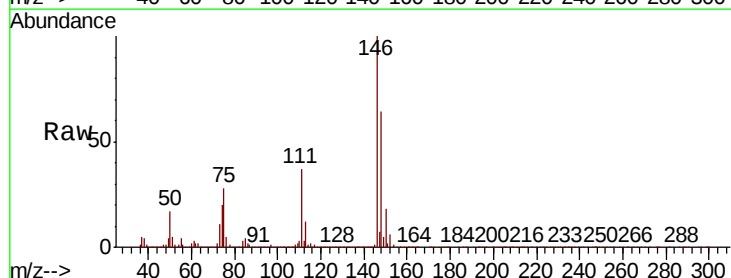
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S39-0191MSD

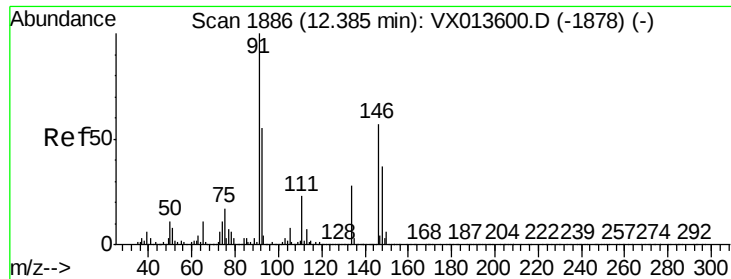
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.7  | 19.0  | 57.0  |
| 148     | 63.4  | 31.8  | 95.4  |



#88  
 1,4-Dichlorobenzene  
 Concen: 47.126 ug/l  
 RT: 12.09 min Scan# 1838  
 Delta R.T. -0.00 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.1  | 18.9  | 56.9  |
| 148     | 63.7  | 31.9  | 95.5  |

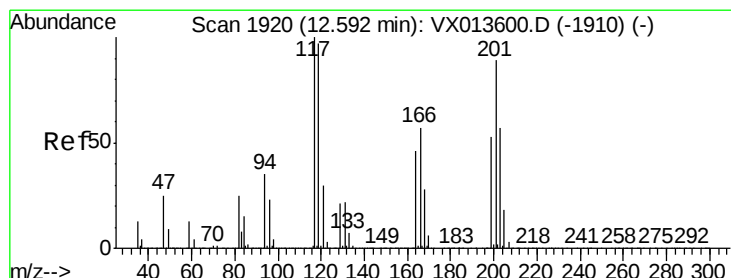
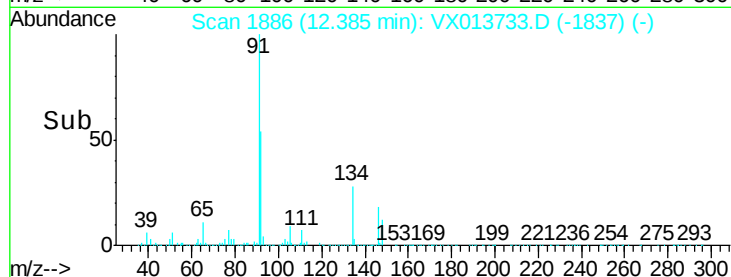
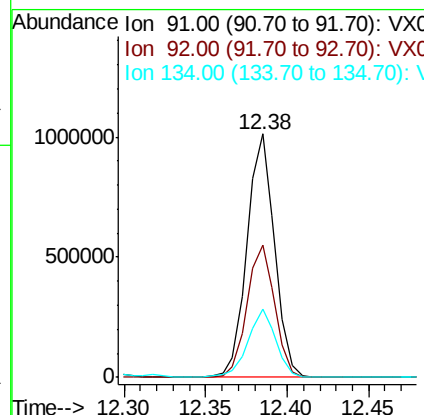
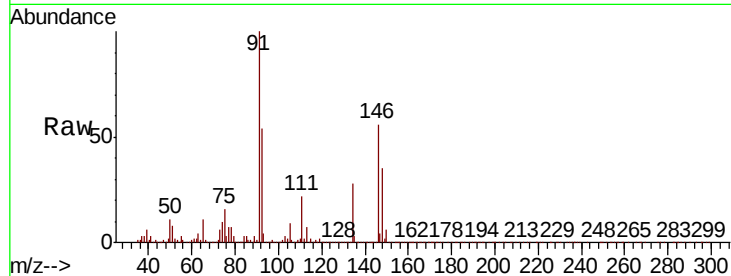




#89  
n-Butylbenzene  
Concen: 50.291 ug/l  
RT: 12.38 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

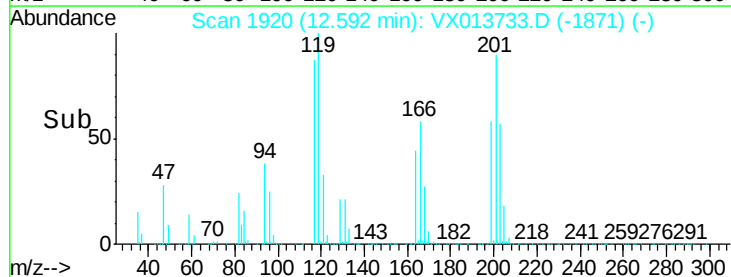
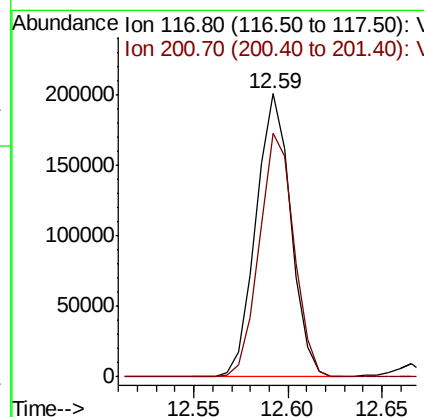
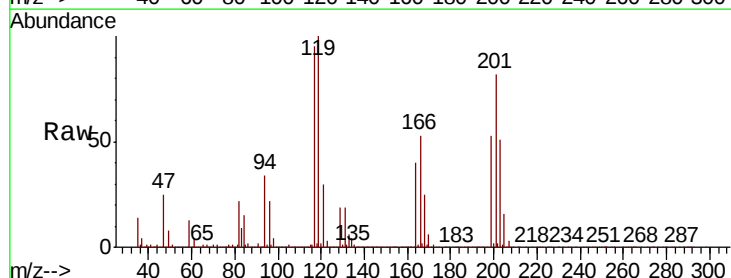
Instrument :  
MSVOA\_X  
ClientSampleId :  
S39-0191MSD

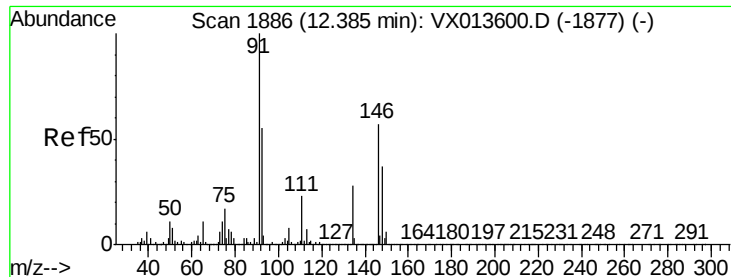
Tot Ion: 91 Resp: 1190939  
Ion Ratio Lower Upper  
91 100  
92 54.4 27.4 82.2  
134 28.5 13.5 40.4



#90  
Hexachloroethane  
Concen: 51.418 ug/l  
RT: 12.59 min Scan# 1920  
Delta R.T. -0.00 min  
Lab File: VX013733.D  
Acq: 03 Dec 2019 18:31

Tgt Ion: 117 Resp: 258049  
Ion Ratio Lower Upper  
117 100  
201 85.6 44.1 132.4





#91

1,2-Dichlorobenzene

Concen: 49.010 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

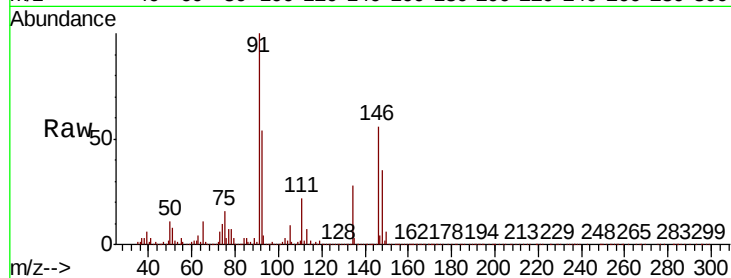
Tot Ion:146 Resp: 715355

Ion Ratio Lower Upper

146 100

111 39.2 19.6 58.7

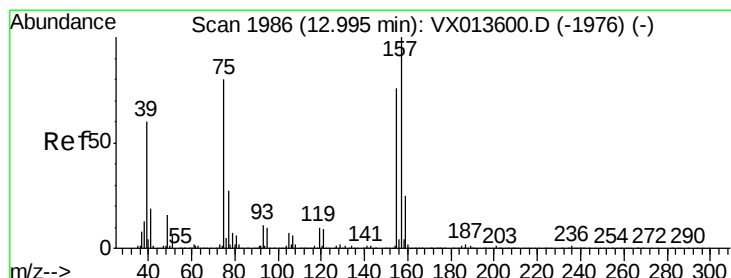
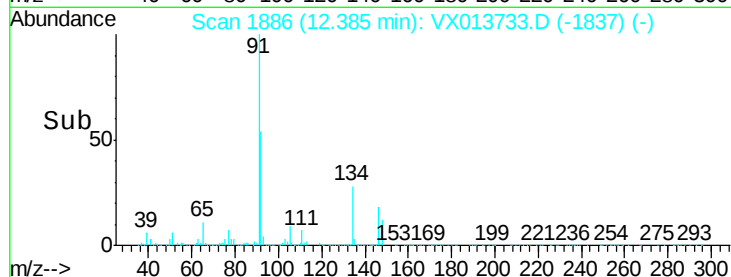
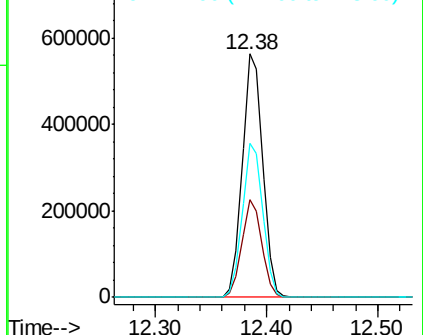
148 63.6 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 50.213 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

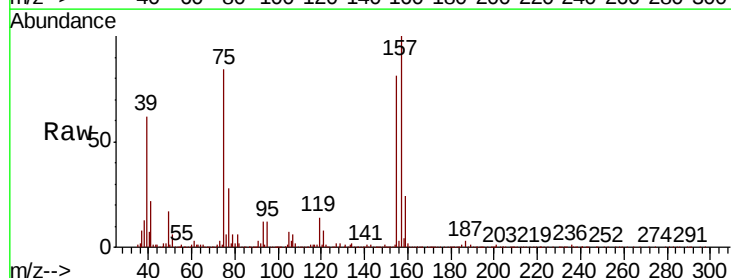
Tgt Ion: 75 Resp: 118958

Ion Ratio Lower Upper

75 100

155 99.0 47.6 142.8

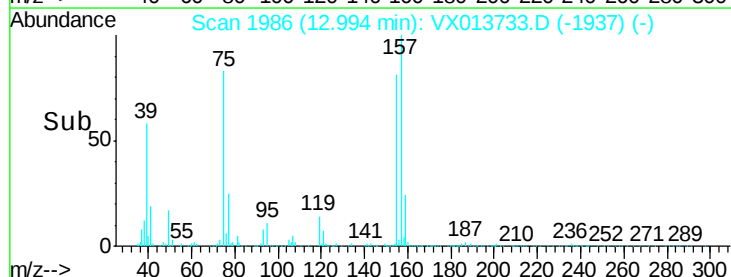
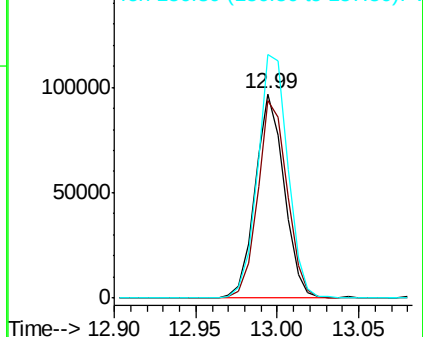
157 125.4 62.1 186.2

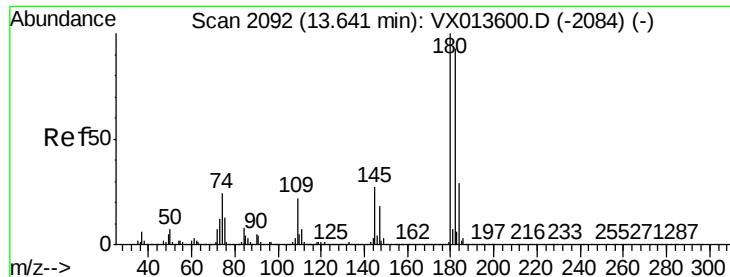


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

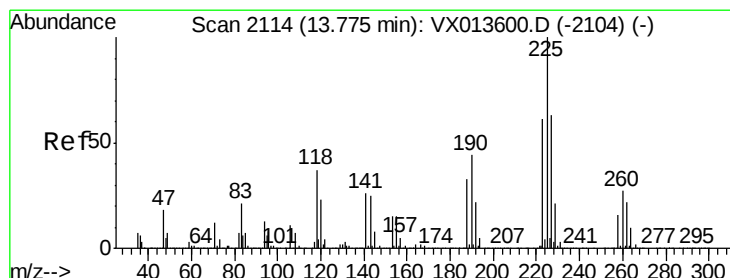
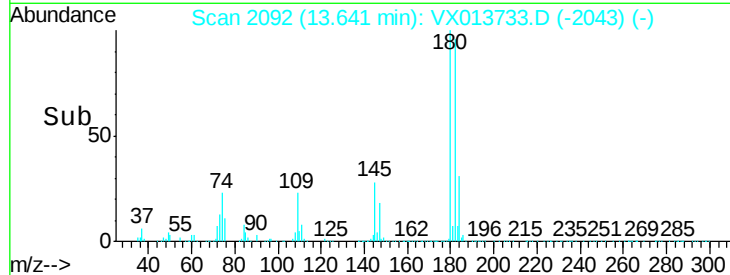
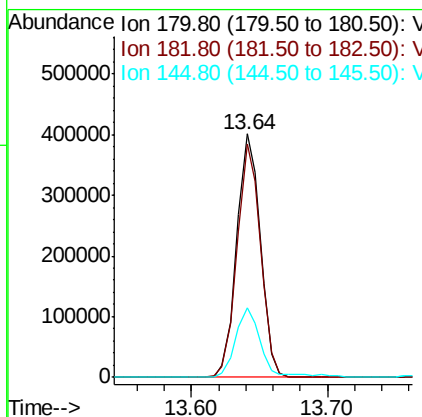
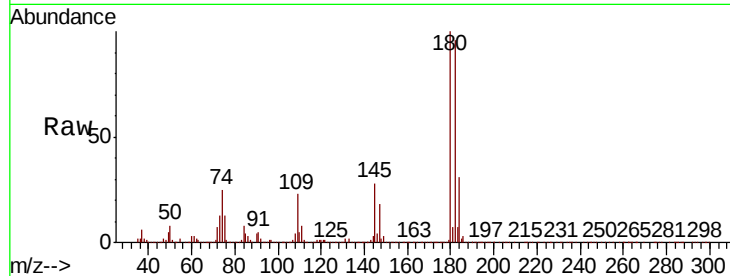




#93  
 1,2,4-Trichlorobenzene  
 Concen: 47.644 ug/l  
 RT: 13.64 min Scan# 2092  
 Delta R.T. -0.00 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

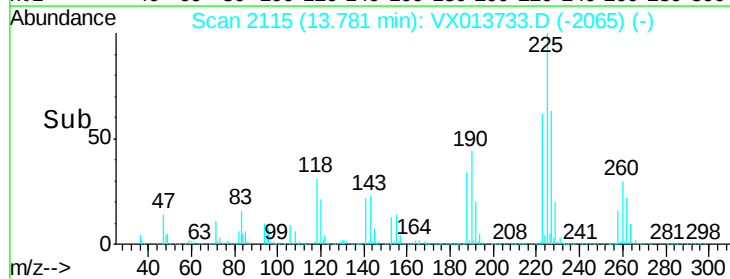
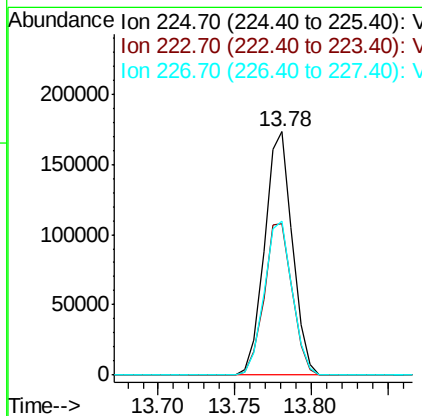
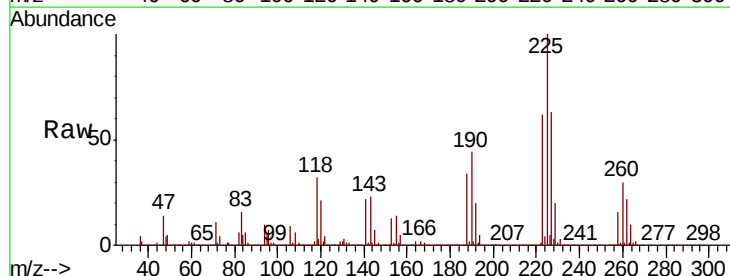
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S39-0191MSD

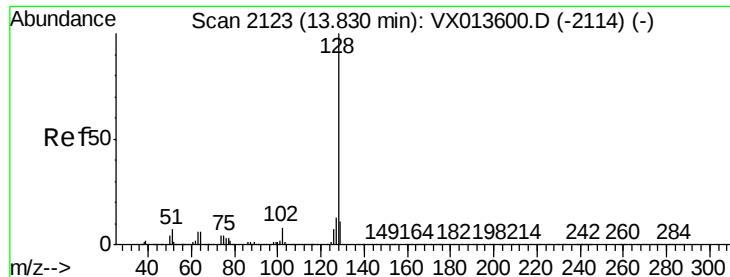
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 47.2  | 141.6 |
| 145     | 31.3  | 13.8  | 41.4  |



#94  
 Hexachlorobutadiene  
 Concen: 45.025 ug/l  
 RT: 13.78 min Scan# 2115  
 Delta R.T. 0.01 min  
 Lab File: VX013733.D  
 Acq: 03 Dec 2019 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.3  | 31.9  | 95.5  |
| 227     | 63.9  | 32.1  | 96.3  |





#95

Naphthalene

Concen: 52.177 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

Instrument :

MSVOA\_X

ClientSampleId :

S39-0191MSD

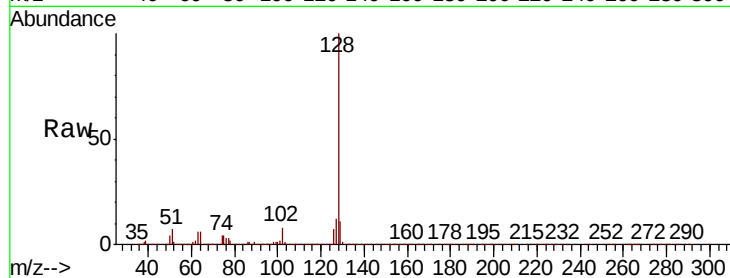
Tot Ion:128 Resp: 1580650

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

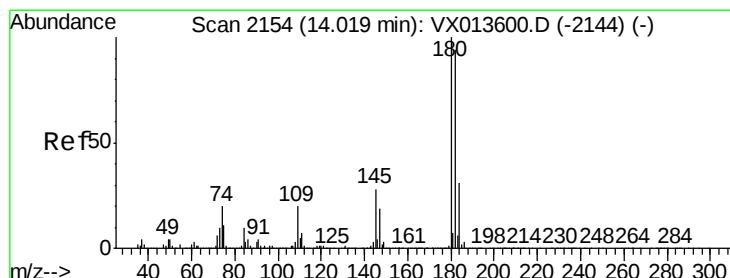
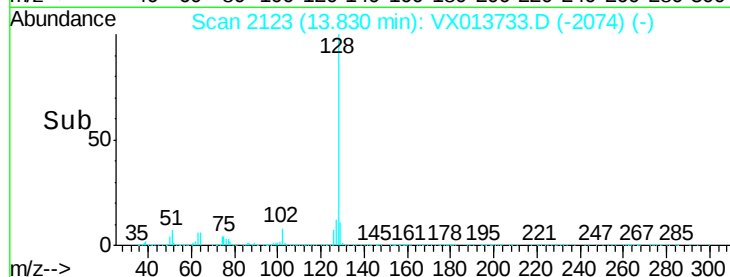
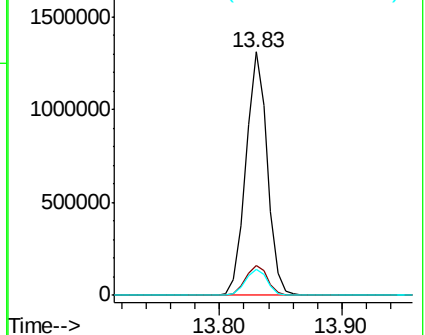
129 11.0 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 48.432 ug/l

RT: 14.01 min Scan# 2153

Delta R.T. -0.01 min

Lab File: VX013733.D

Acq: 03 Dec 2019 18:31

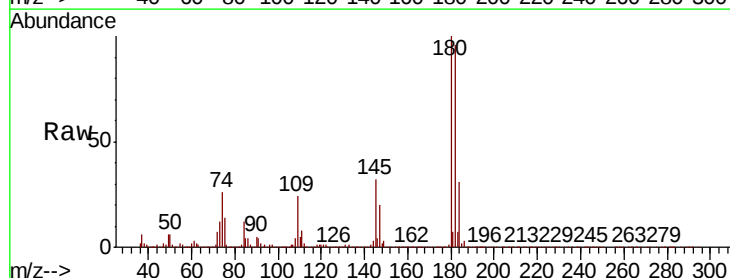
Tgt Ion:180 Resp: 487800

Ion Ratio Lower Upper

180 100

182 95.5 47.6 142.8

145 31.1 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

