

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081719\  
 Data File : VN057352.D  
 Acq On : 16 Aug 2019 13:30  
 Operator : JC/SP  
 Sample : VSTDICV020  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICV020

Quant Time: Aug 16 13:51:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 16 13:33:03 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.18  | 128  | 145727   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 797401   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.40 | 117  | 682272   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.02   | 65    | 272381   | 29.07    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 96.90%  |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 294445   | 29.31    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 97.70%  |
| 63) Toluene-d8            | 10.09  | 98    | 937350   | 30.46    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.53% |

## Target Compounds

|                               |      |     |         |         | Ovalue    |
|-------------------------------|------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 156357  | 20.771  | ug/l 97   |
| 3) Chloromethane              | 2.05 | 50  | 180157  | 20.753  | ug/l 97   |
| 4) Vinyl Chloride             | 2.18 | 62  | 175208  | 21.096  | ug/l 95   |
| 5) Bromomethane               | 2.55 | 94  | 151538m | 23.450  | ug/l      |
| 6) Chloroethane               | 2.69 | 64  | 114960  | 20.207  | ug/l 100  |
| 7) Trichlorofluoromethane     | 3.02 | 101 | 268266  | 20.155  | ug/l 98   |
| 8) Diethyl Ether              | 3.40 | 74  | 99799   | 20.373  | ug/l 89   |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 161641  | 20.394  | ug/l 96   |
| 10) 1,1-Dichloroethene        | 3.73 | 96  | 162100  | 20.622  | ug/l 91   |
| 11) Methyl Iodide             | 3.95 | 142 | 237874  | 17.946  | ug/l 98   |
| 12) Methyl Acetate            | 4.31 | 43  | 175734  | 19.885  | ug/l 99   |
| 13) Acrolein                  | 3.60 | 56  | 80750   | 96.626  | ug/l 99   |
| 14) Acrylonitrile             | 4.97 | 53  | 361707  | 101.036 | ug/l 99   |
| 15) Acetone                   | 3.80 | 58  | 105731  | 100.226 | ug/l 96   |
| 16) Carbon Disulfide          | 4.05 | 76  | 448354  | 20.866  | ug/l 100  |
| 17) Allyl chloride            | 4.32 | 41  | 221927  | 19.329  | ug/l 96   |
| 18) Methylene Chloride        | 4.55 | 84  | 182917  | 20.331  | ug/l # 90 |
| 19) trans-1,2-Dichloroethene  | 5.03 | 96  | 172014  | 20.208  | ug/l 97   |
| 20) Diisopropyl ether         | 5.94 | 45  | 485331  | 20.300  | ug/l # 96 |
| 21) 1,1-Dichloroethane        | 5.84 | 63  | 296959  | 20.102  | ug/l 99   |
| 22) cis-1,2-Dichloroethene    | 6.82 | 96  | 198703  | 20.145  | ug/l 97   |
| 23) tert-Butyl Alcohol        | 4.76 | 59  | 126517  | 99.167  | ug/l 100  |
| 24) Methyl tert-Butyl Ether   | 5.03 | 73  | 484781  | 20.097  | ug/l 99   |
| 25) Chloroform                | 7.36 | 83  | 312864  | 20.263  | ug/l 99   |
| 26) Cyclohexane               | 7.64 | 56  | 249384  | 20.309  | ug/l # 95 |
| 29) 1,1-Dichloropropene       | 7.79 | 75  | 230528  | 19.874  | ug/l 98   |
| 30) 2-Butanone                | 6.82 | 43  | 452567  | 98.891  | ug/l 95   |
| 31) 2,2-Dichloropropane       | 6.81 | 77  | 251262  | 19.774  | ug/l 100  |
| 32) 1,1,1-Trichloroethane     | 7.56 | 97  | 270873  | 19.754  | ug/l 97   |
| 33) Carbon Tetrachloride      | 7.77 | 117 | 242343  | 19.848  | ug/l 97   |
| 34) Benzene                   | 8.03 | 78  | 706109  | 20.066  | ug/l 98   |
| 35) Methacrylonitrile         | 7.18 | 41  | 125489m | 20.071  | ug/l      |
| 36) 1,2-Dichloroethane        | 8.12 | 62  | 222214  | 19.431  | ug/l 99   |
| 37) Trichloroethene           | 8.83 | 130 | 209508  | 20.454  | ug/l 92   |
| 38) Methylcyclohexane         | 9.08 | 83  | 274996  | 20.018  | ug/l 97   |
| 39) 1,2-Dichloropropane       | 9.11 | 63  | 178434  | 19.839  | ug/l 98   |
| 40) Dibromomethane            | 9.20 | 93  | 119068  | 19.900  | ug/l 94   |

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 MSVOA\_N  
 ClientSampleId :  
 VSTDICV020

Quant Time: Aug 16 13:51:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 16 13:33:03 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Bromodichloromethane       | 9.40  | 83   | 240246   | 19.816  | ug/l  | 98       |
| 42) Vinyl Acetate              | 5.88  | 43   | 1945297  | 101.021 | ug/l  | 97       |
| 43) Ethyl Acetate              | 6.92  | 43   | 179411   | 19.108  | ug/l  | 99       |
| 44) Isopropyl Acetate          | 8.16  | 43   | 322151   | 19.467  | ug/l  | 90       |
| 45) 1,4-Dioxane                | 9.19  | 88   | 62239    | 399.601 | ug/l  | 98       |
| 46) Methyl methacrylate        | 9.19  | 41   | 150694   | 20.339  | ug/l  | 96       |
| 47) n-amyl Acetate             | 12.07 | 43   | 254393   | 20.837  | ug/l  | 98       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 256685   | 19.570  | ug/l  | 95       |
| 49) cis-1,3-Dichloropropene    | 9.83  | 75   | 290150   | 19.869  | ug/l  | 96       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 174117   | 19.940  | ug/l  | 97       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 249619   | 19.720  | ug/l  | 93       |
| 52) 1,3-Dichloropropane        | 10.70 | 76   | 282813   | 19.832  | ug/l  | 98       |
| 53) Dibromochloromethane       | 10.90 | 129  | 198441   | 19.753  | ug/l  | 99       |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 184782   | 20.093  | ug/l  | 97       |
| 55) 2-Chloroethyl vinyl ether  | 9.69  | 63   | 272459   | 92.466  | ug/l  | 97       |
| 56) Bromoform                  | 12.13 | 173  | 145060   | 19.122  | ug/l  | 97       |
| 58) 4-Methyl-2-Pentanone       | 9.98  | 43   | 917660   | 103.249 | ug/l  | 96       |
| 59) 2-Hexanone                 | 10.75 | 43   | 658438   | 103.289 | ug/l  | 95       |
| 61) Tetrachloroethene          | 10.63 | 164  | 213190   | 21.319  | ug/l  | 98       |
| 62) Toluene                    | 10.15 | 91   | 778963   | 20.700  | ug/l  | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 484273   | 20.485  | ug/l  | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 187749   | 20.432  | ug/l  | 99       |
| 66) Ethyl Benzene              | 11.51 | 91   | 843663   | 20.520  | ug/l  | 100      |
| 67) m/p-Xylenes                | 11.62 | 106  | 631444   | 41.035  | ug/l  | 98       |
| 68) o-Xylene                   | 11.95 | 106  | 307476   | 20.440  | ug/l  | 98       |
| 69) Styrene                    | 11.96 | 104  | 487430   | 20.169  | ug/l  | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 825076   | 20.458  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 229829   | 20.803  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 189019m  | 20.274  | ug/l  |          |
| 73) Bromobenzene               | 12.53 | 156  | 215322   | 20.148  | ug/l  | 93       |
| 74) n-propylbenzene            | 12.59 | 91   | 832519   | 19.873  | ug/l  | 98       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 532329   | 20.477  | ug/l  | 97       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 686620   | 20.470  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 71443    | 19.970  | ug/l  | 90       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 489623   | 20.130  | ug/l  | 99       |
| 79) tert-butylbenzene          | 12.99 | 119  | 608919   | 20.372  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 651784   | 20.601  | ug/l  | 100      |
| 81) sec-Butylbenzene           | 13.17 | 105  | 731311   | 19.848  | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 644257   | 19.518  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 334434   | 21.363  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 314900   | 21.550  | ug/l  | 99       |
| 85) n-Butylbenzene             | 13.62 | 91   | 516118   | 21.028  | ug/l  | 99       |
| 86) Hexachloroethane           | 13.88 | 117  | 125258   | 19.716  | ug/l  | 91       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 350050   | 23.669  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 29104    | 19.655  | ug/l  | 96       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 141323   | 27.007  | ug/l  | 94       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 161751   | 24.222  | ug/l  | 99       |
| 91) Naphthalene                | 15.13 | 128  | 233254   | 20.624  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene     | 15.29 | 180  | 134019   | 27.012  | ug/l  | 99       |

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Sample : VSTDICV020  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICV020

Quant Time: Aug 16 13:51:13 2019  
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Aug 16 13:33:03 2019  
Response via : Initial Calibration

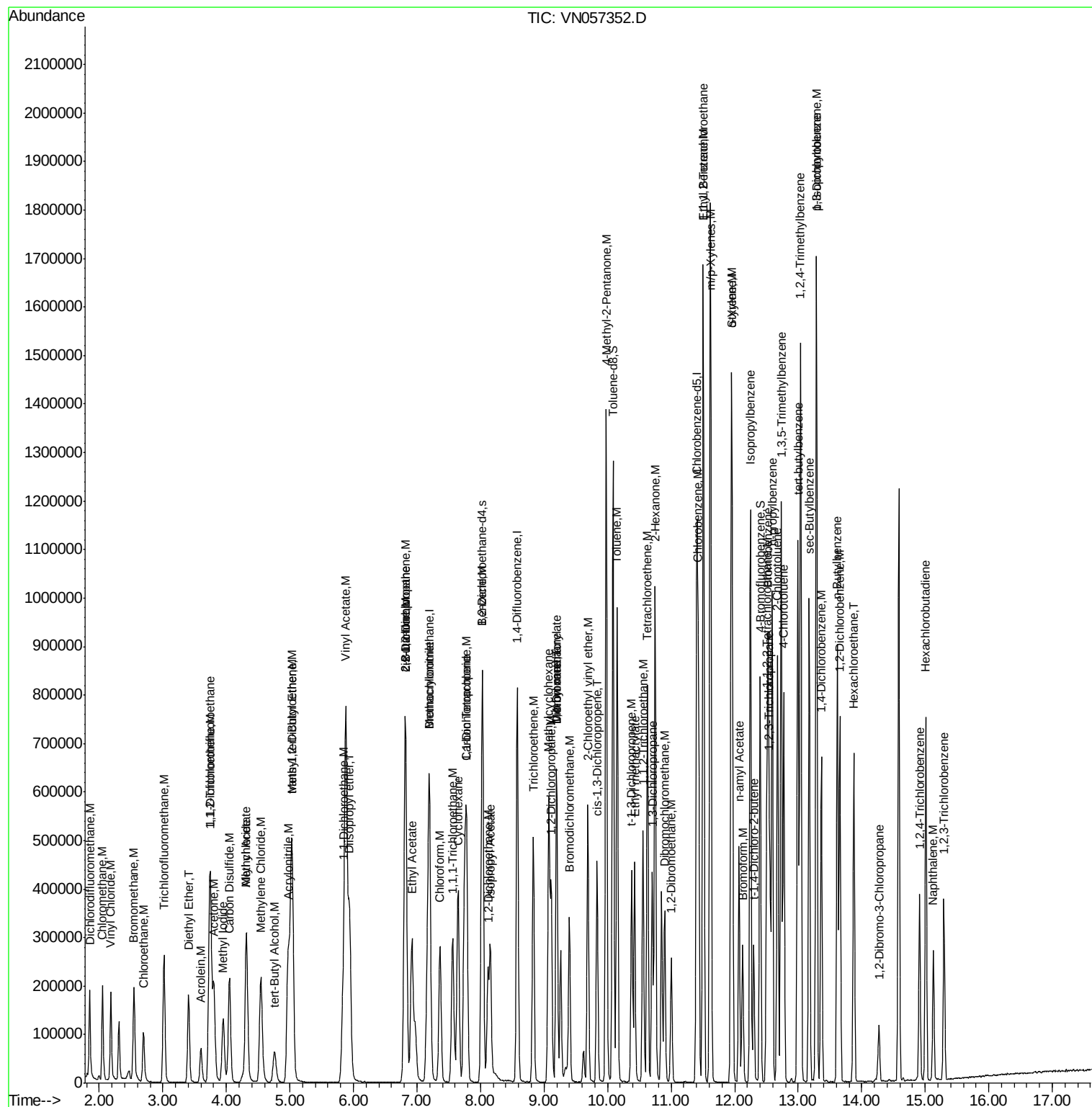
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

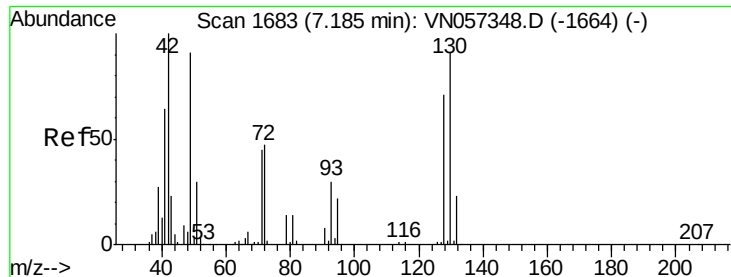
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 16 13:51:13 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N081719W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Aug 16 13:33:03 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

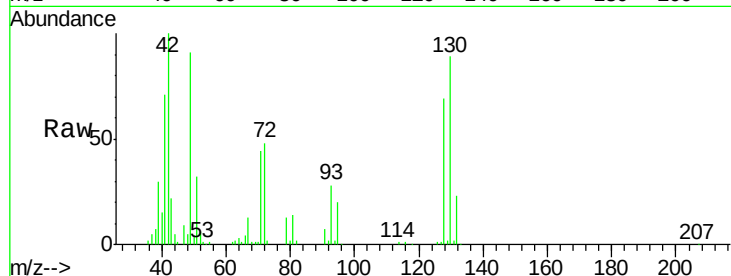
Tot Ion:128 Resp: 145727

Ion Ratio Lower Upper

128 100

49 129.3 0.0 390.5

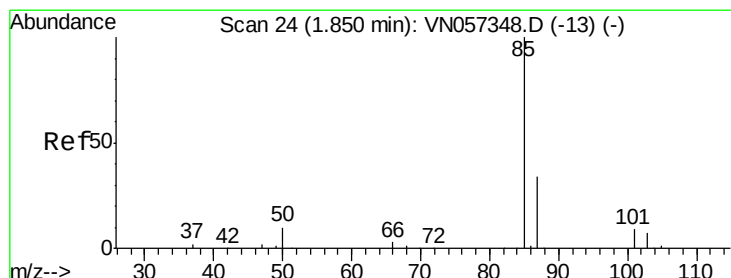
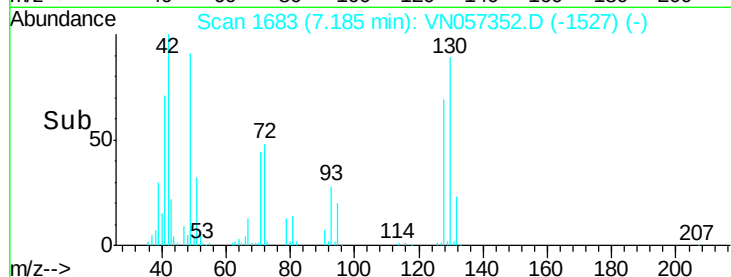
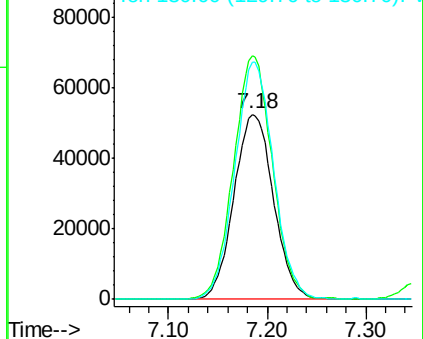
130 125.7 0.0 316.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 20.771 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN057352.D

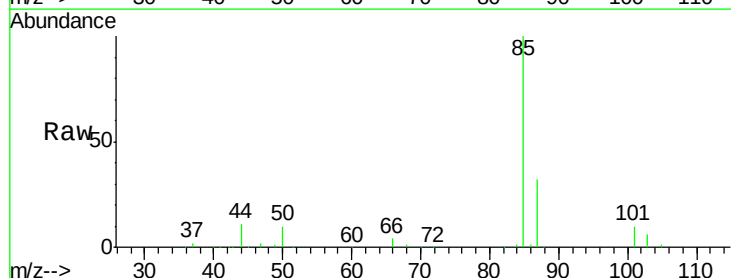
Acq: 16 Aug 2019 13:30

Tgt Ion: 85 Resp: 156357

Ion Ratio Lower Upper

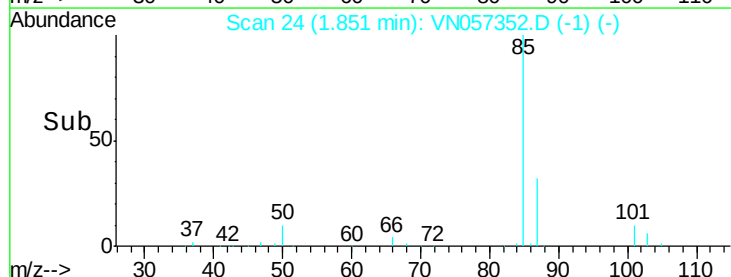
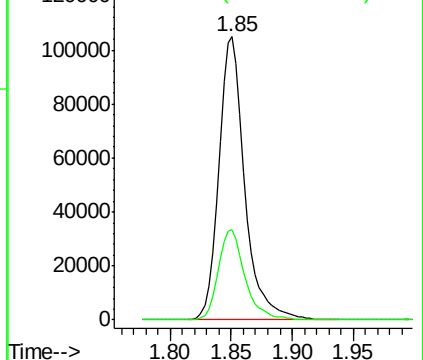
85 100

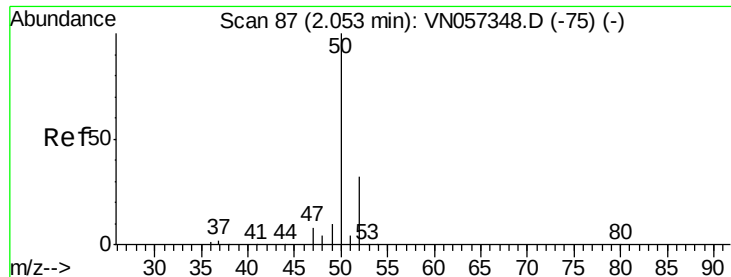
87 31.8 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 20.753 ug/l

RT: 2.05 min Scan# 86

Delta R.T. -0.01 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

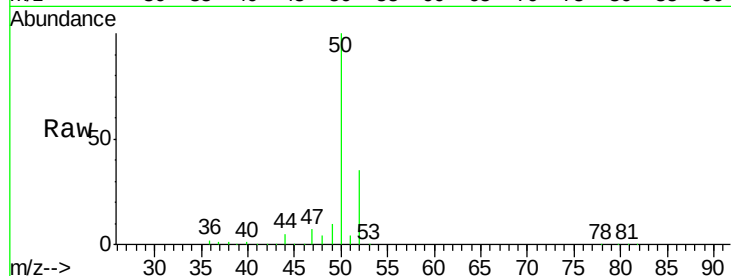
VSTDICV020

Tot Ion: 50 Resp: 180157

Ion Ratio Lower Upper

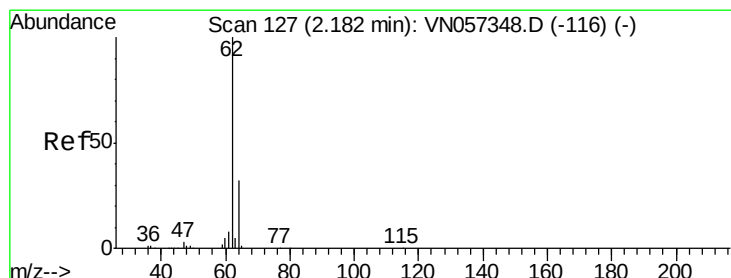
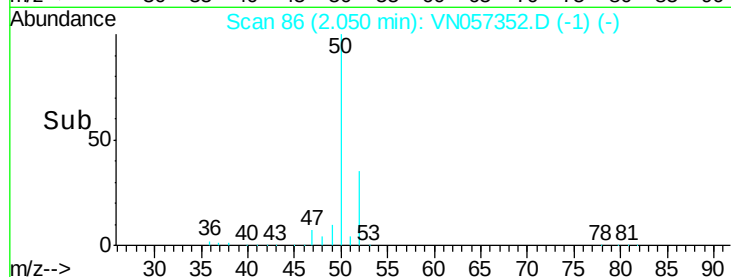
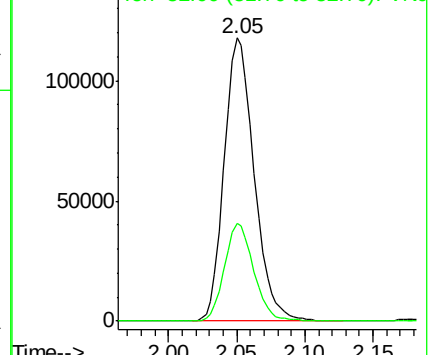
50 100

52 34.6 26.5 39.7



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 21.096 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057352.D

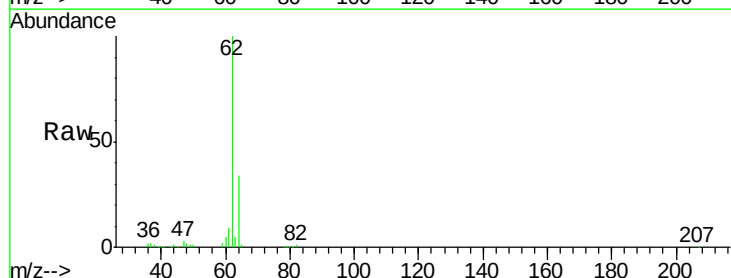
Acq: 16 Aug 2019 13:30

Tgt Ion: 62 Resp: 175208

Ion Ratio Lower Upper

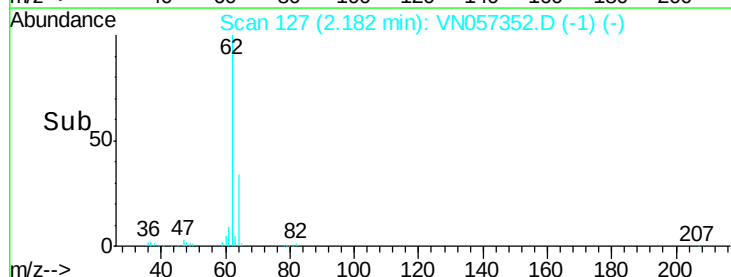
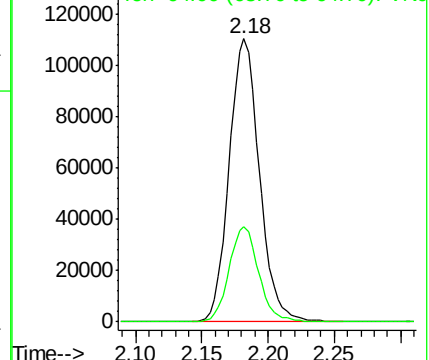
62 100

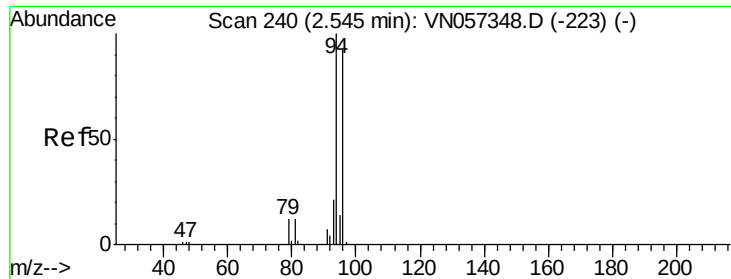
64 33.8 25.0 37.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 23.450 ug/l m

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

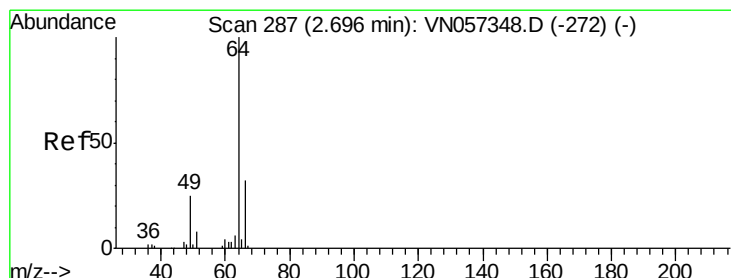
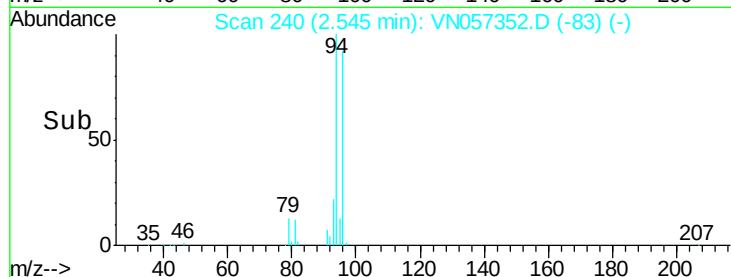
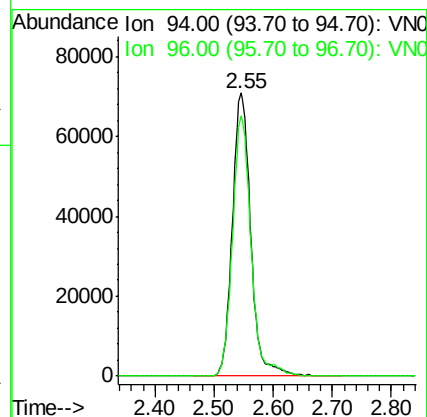
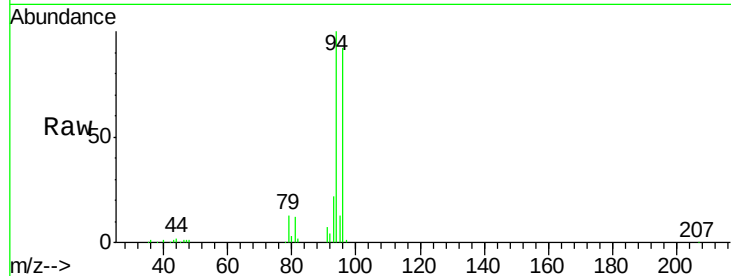
VSTDICV020

Tot Ion: 94 Resp: 151538

Ion Ratio Lower Upper

94 100

96 92.0 72.8 109.2



#6

Chloroethane

Concen: 20.207 ug/l

RT: 2.69 min Scan# 286

Delta R.T. -0.00 min

Lab File: VN057352.D

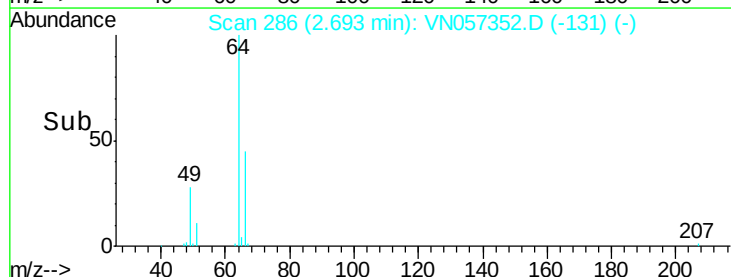
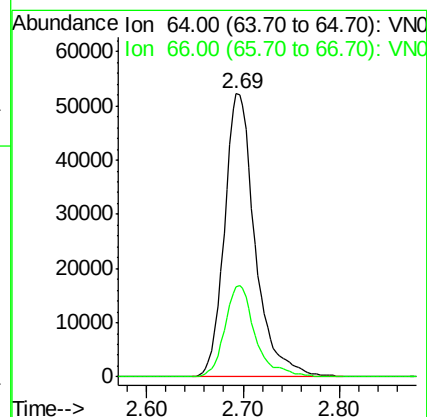
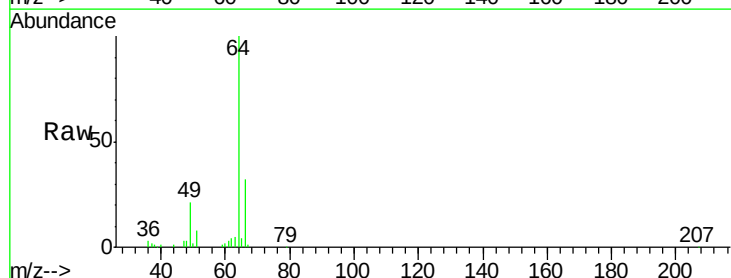
Acq: 16 Aug 2019 13:30

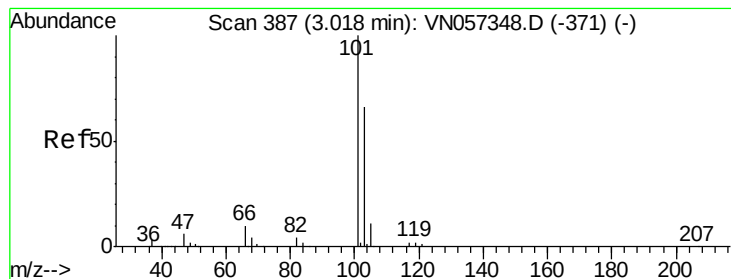
Tgt Ion: 64 Resp: 114960

Ion Ratio Lower Upper

64 100

66 31.9 25.7 38.5



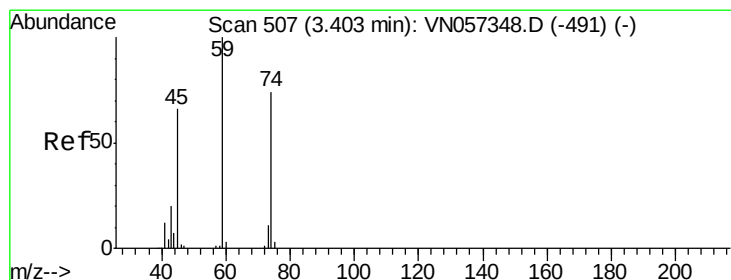
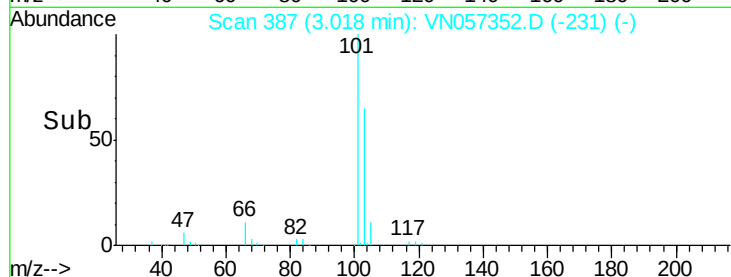
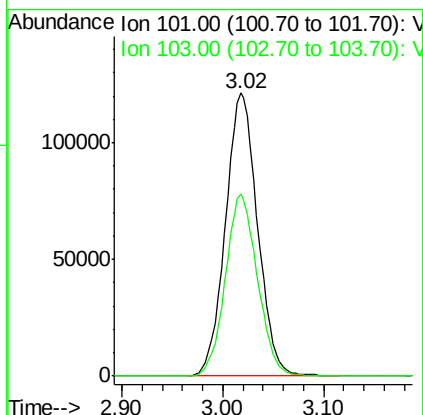
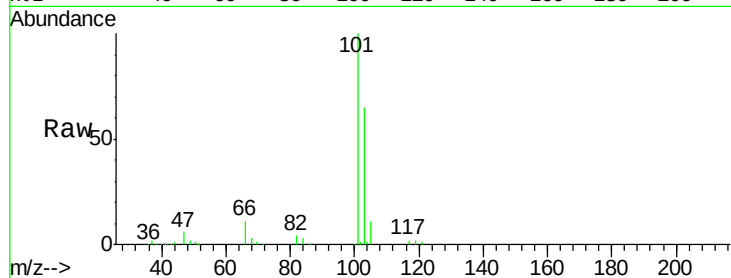


#7

Trichlorofluoromethane  
 Concen: 20.155 ug/l  
 RT: 3.02 min Scan# 387  
 Delta R.T. 0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VSTDICV020

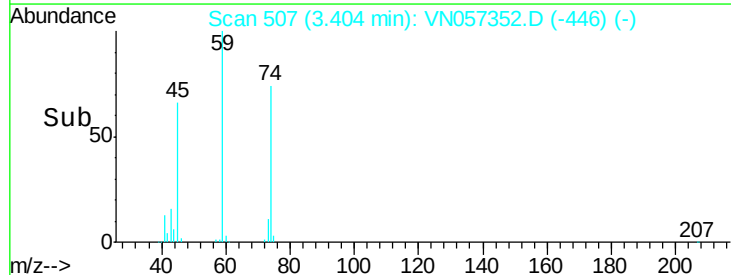
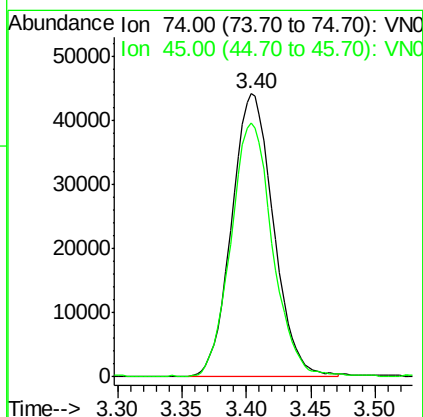
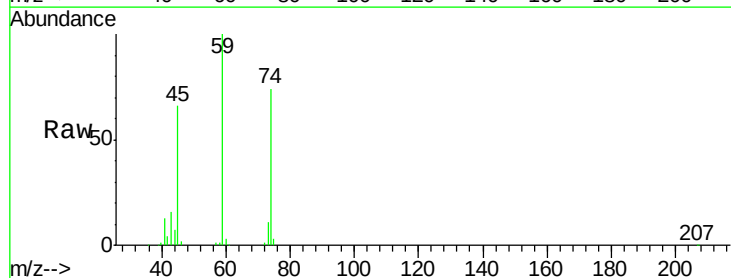
Tot Ion:101 Resp: 268266  
 Ion Ratio Lower Upper  
 101 100  
 103 64.6 52.8 79.2



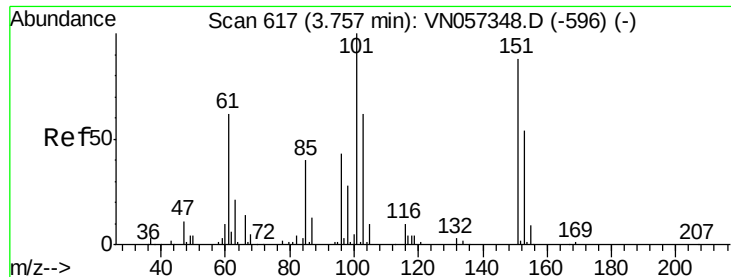
#8

Diethyl Ether  
 Concen: 20.373 ug/l  
 RT: 3.40 min Scan# 507  
 Delta R.T. -0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

Tgt Ion: 74 Resp: 99799  
 Ion Ratio Lower Upper  
 74 100  
 45 89.1 19.9 179.5







#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.394 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

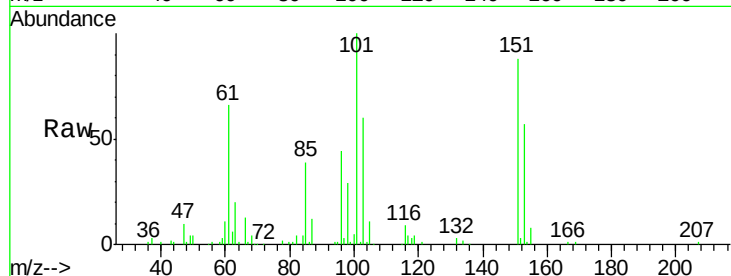
Tot Ion:101 Resp: 161641

Ion Ratio Lower Upper

101 100

85 40.2 0.0 84.2

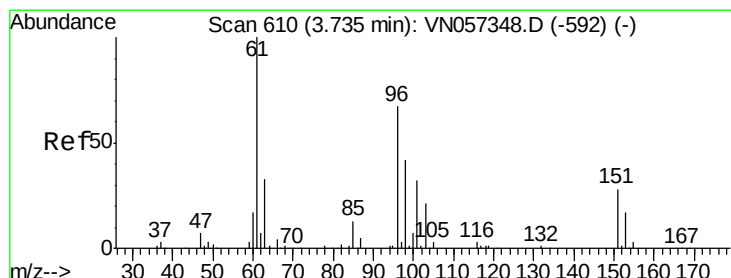
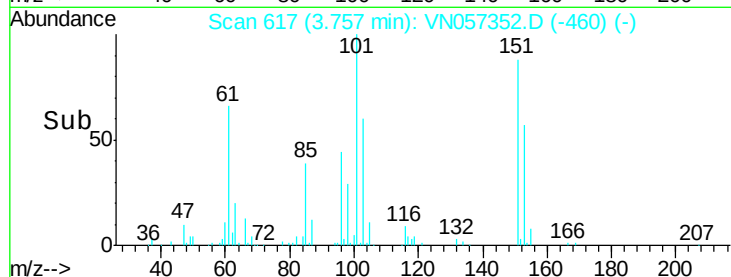
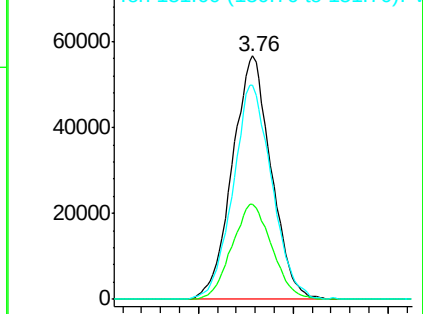
151 88.3 0.0 167.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 20.622 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

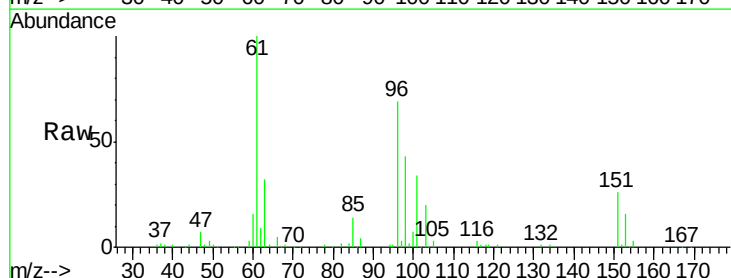
Tgt Ion: 96 Resp: 162100

Ion Ratio Lower Upper

96 100

61 145.8 129.0 193.4

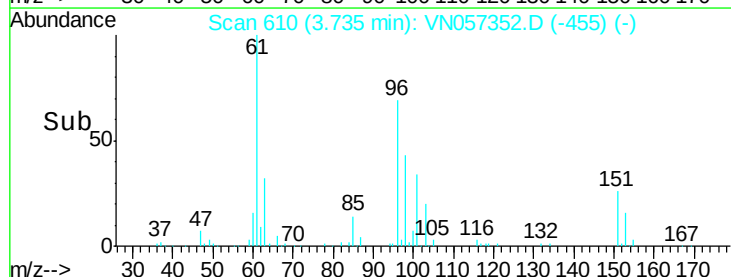
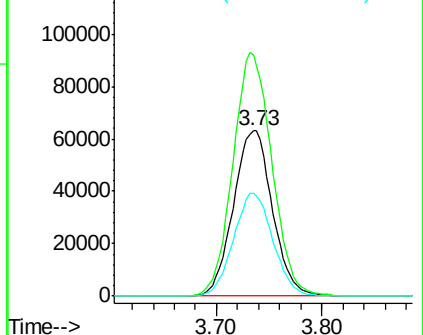
98 62.6 52.5 78.7

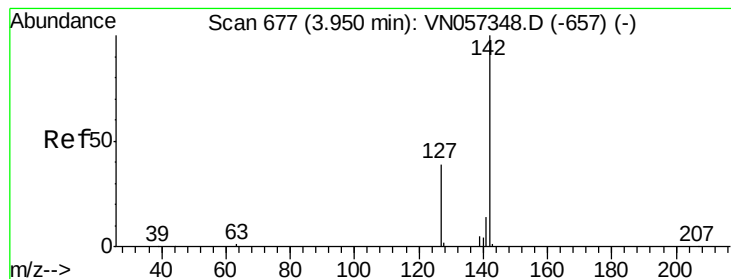


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#11

Methvl Iodide

Concen: 17.946 ug/l

RT: 3.95 min Scan# 677

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

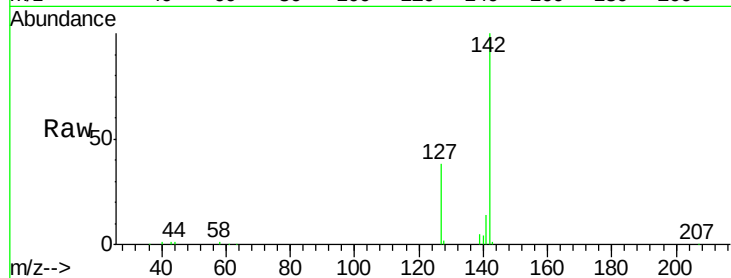
Tot Ion:142 Resp: 237874

Ion Ratio Lower Upper

142 100

127 37.9 19.5 58.5

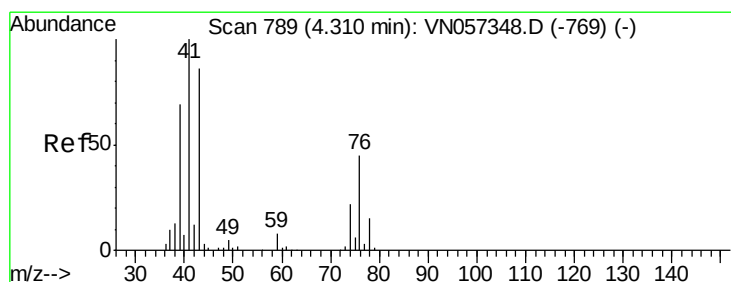
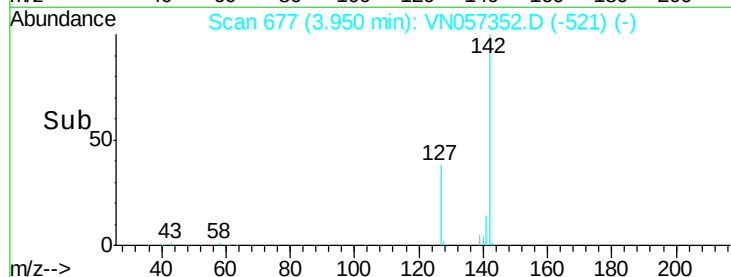
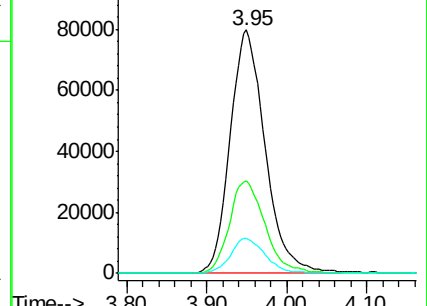
141 14.1 6.8 20.3



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



#12

Methyl Acetate

Concen: 19.885 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN057352.D

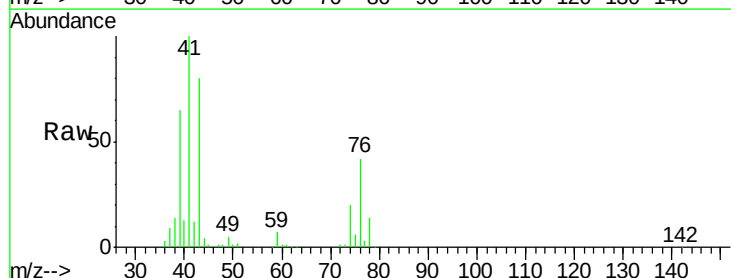
Acq: 16 Aug 2019 13:30

Tgt Ion: 43 Resp: 175734

Ion Ratio Lower Upper

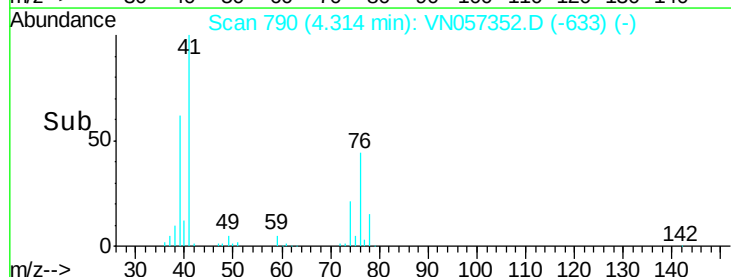
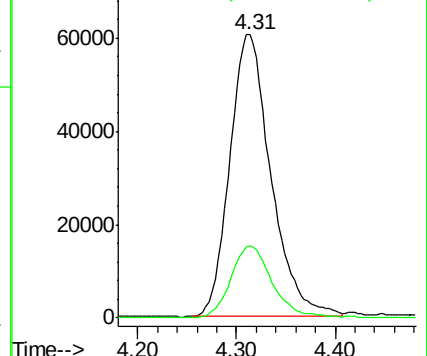
43 100

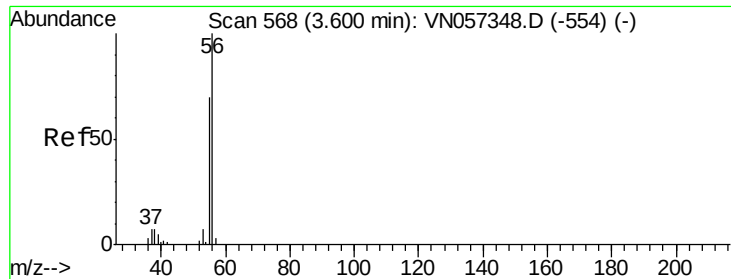
74 25.8 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 74.00 (73.70 to 74.70): V





#13

Acrolein

Concen: 96.626 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

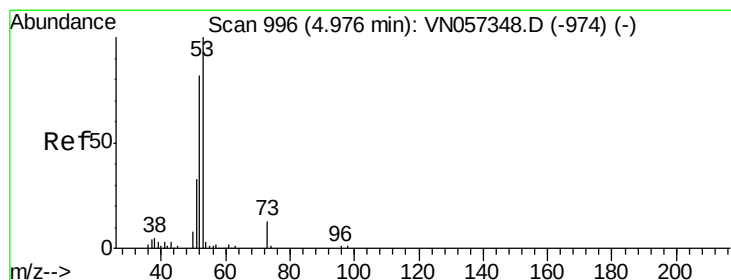
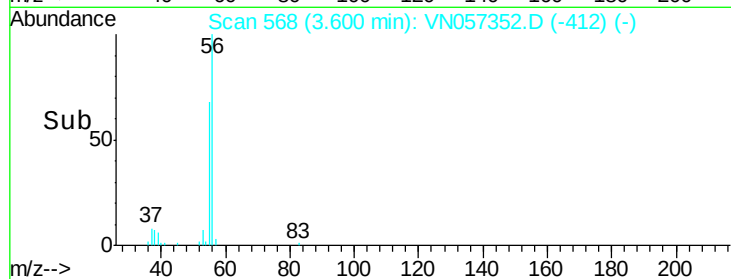
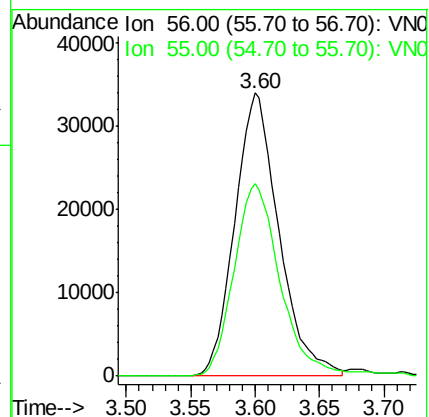
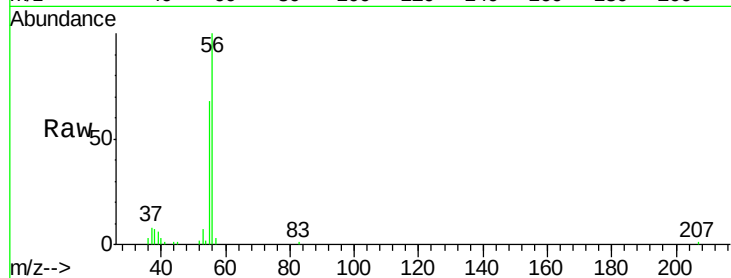
VSTDICV020

Tot Ion: 56 Resp: 80750

Ion Ratio Lower Upper

56 100

55 70.7 56.9 85.3



#14

Acrylonitrile

Concen: 101.036 ug/l

RT: 4.97 min Scan# 994

Delta R.T. -0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

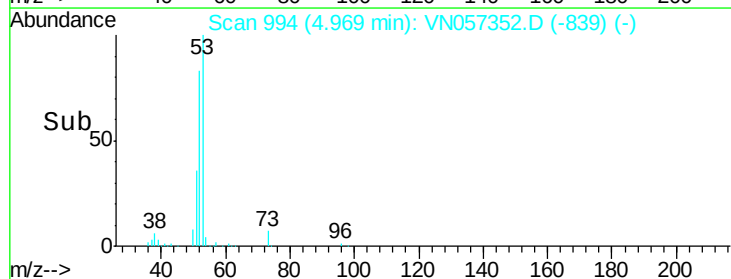
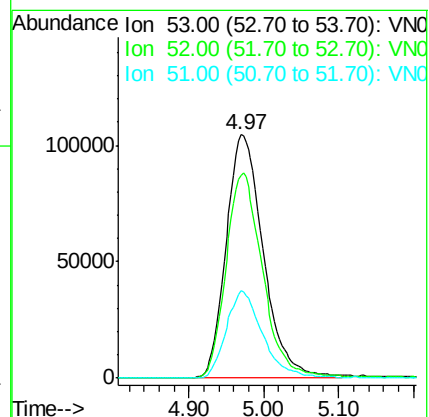
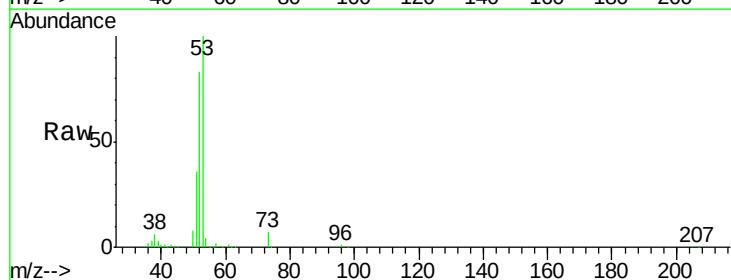
Tgt Ion: 53 Resp: 361707

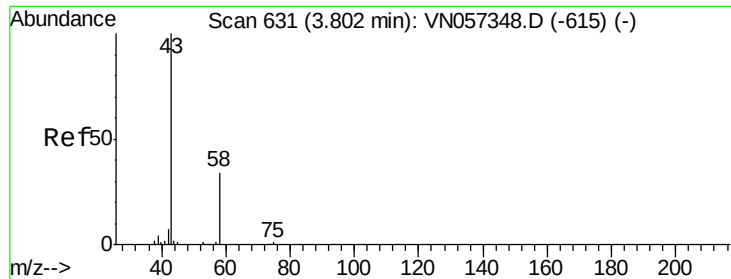
Ion Ratio Lower Upper

53 100

52 81.4 41.3 123.7

51 34.8 17.7 53.1





#15

Acetone

Concen: 100.226 ug/l

RT: 3.80 min Scan# 631

Delta R.T. -0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

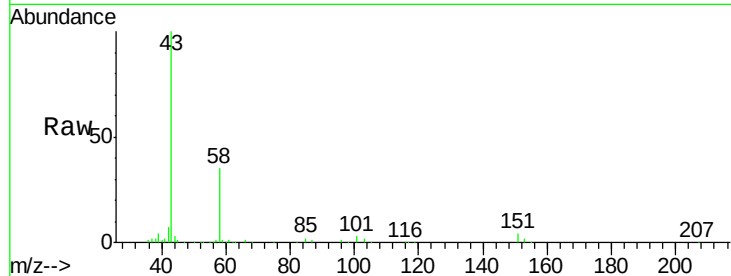
VSTDICV020

Tot Ion: 58 Resp: 105731

Ion Ratio Lower Upper

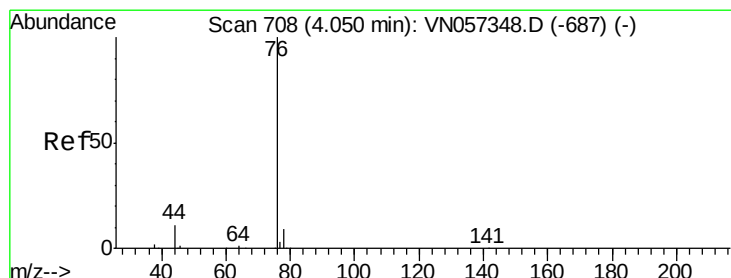
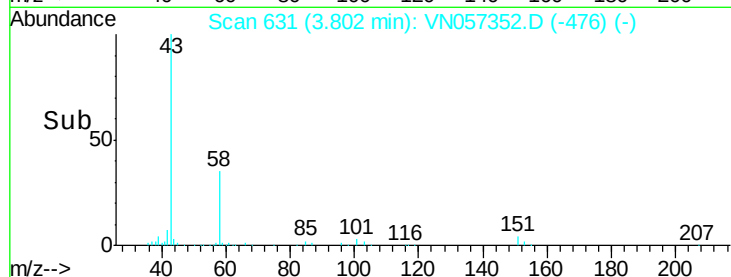
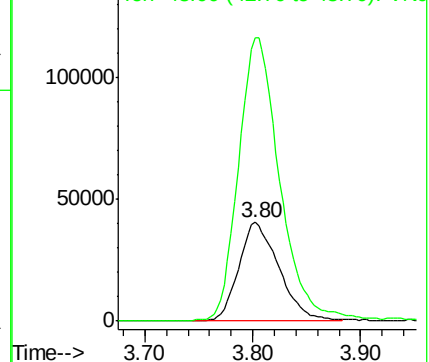
58 100

43 285.0 233.9 350.9



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 20.866 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN057352.D

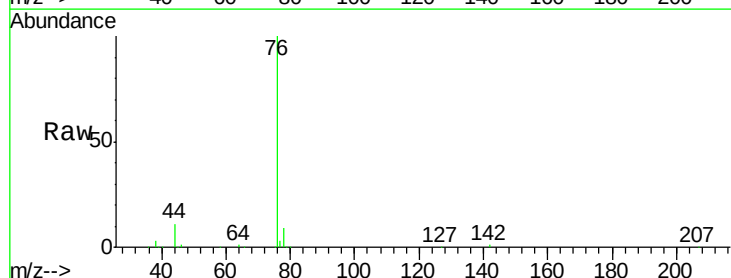
Acq: 16 Aug 2019 13:30

Tgt Ion: 76 Resp: 448354

Ion Ratio Lower Upper

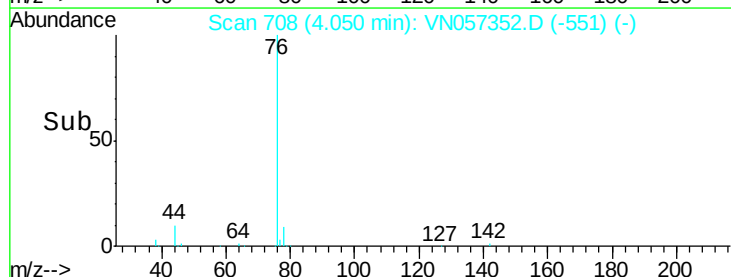
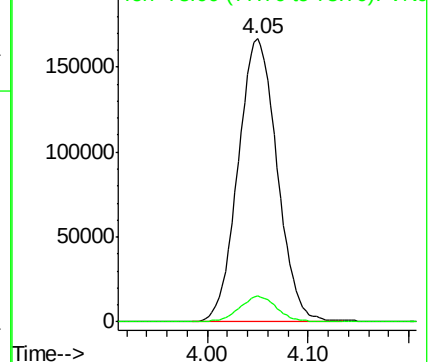
76 100

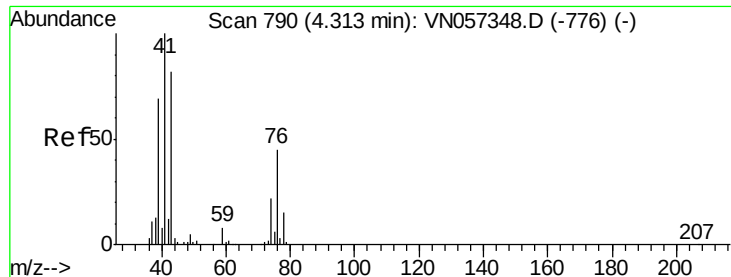
78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

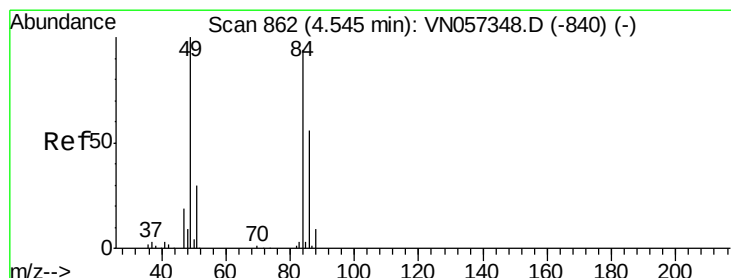
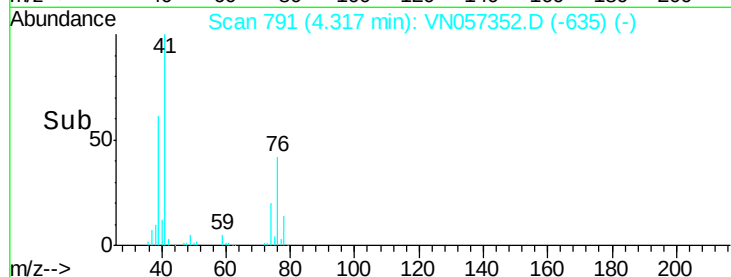
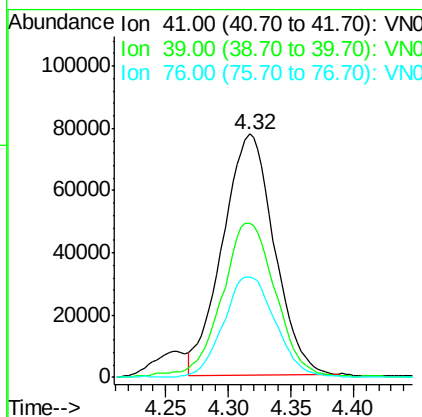
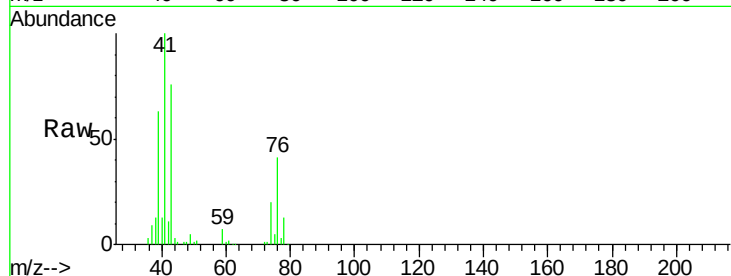




#17  
Allvl chloride  
Concen: 19.329 ug/l  
RT: 4.32 min Scan# 791  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

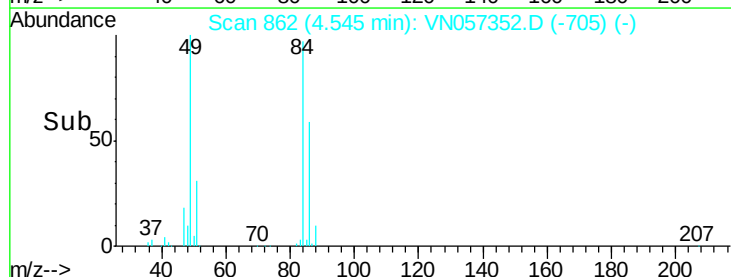
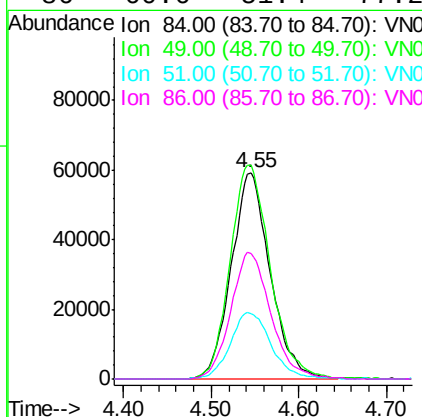
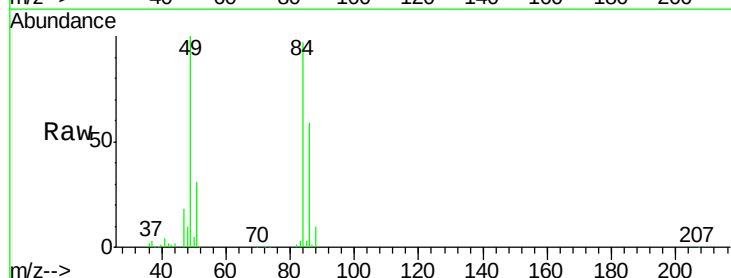
Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDICV020

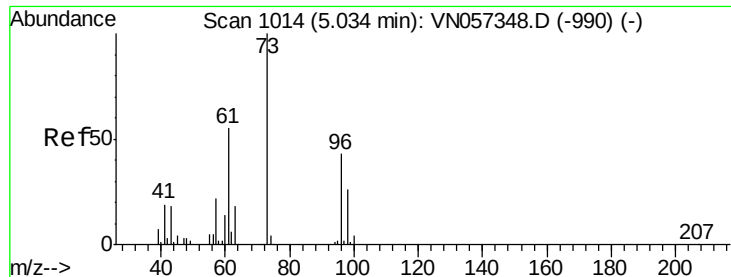
Tot Ion: 41 Resp: 221927  
Ion Ratio Lower Upper  
41 100  
39 63.7 32.8 98.4  
76 41.1 18.5 55.5



#18  
Methylene Chloride  
Concen: 20.331 ug/l  
RT: 4.55 min Scan# 862  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Tgt Ion: 84 Resp: 182917  
Ion Ratio Lower Upper  
84 100  
49 103.3 93.9 140.9  
51 31.6 31.7 47.5#  
86 60.6 51.4 77.2





#19

trans-1,2-Dichloroethene

Concen: 20.208 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

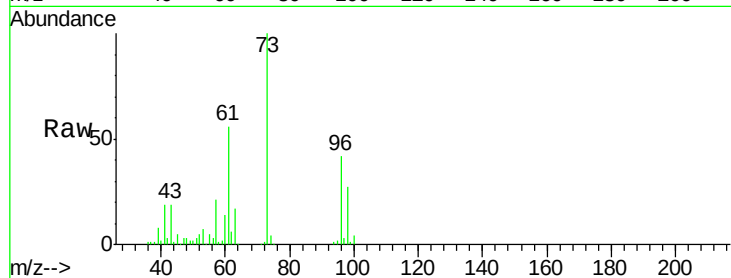
Tot Ion: 96 Resp: 172014

Ion Ratio Lower Upper

96 100

61 131.9 109.6 164.4

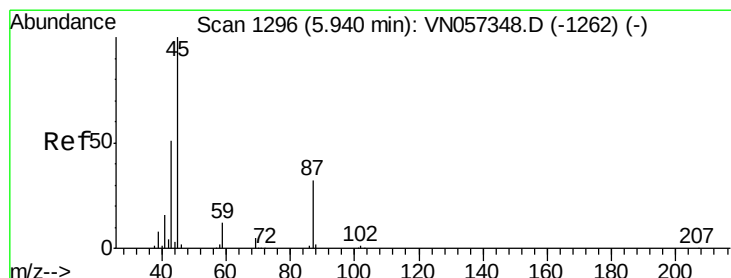
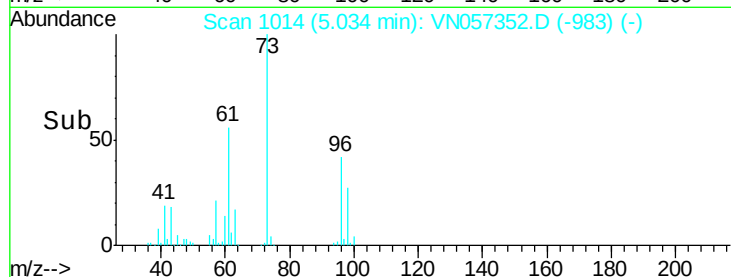
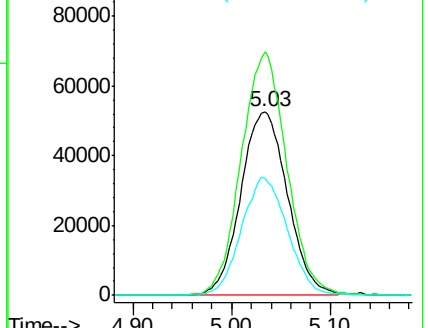
98 63.4 51.4 77.2



Abundance Ion 96.00 (95.70 to 96.70): VN057352.D (-983) (-)

Ion 61.00 (60.70 to 61.70): VN057352.D (-983) (-)

Ion 98.00 (97.70 to 98.70): VN057352.D (-983) (-)



#20

Diisopropyl ether

Concen: 20.300 ug/l

RT: 5.94 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Tgt Ion: 45 Resp: 485331

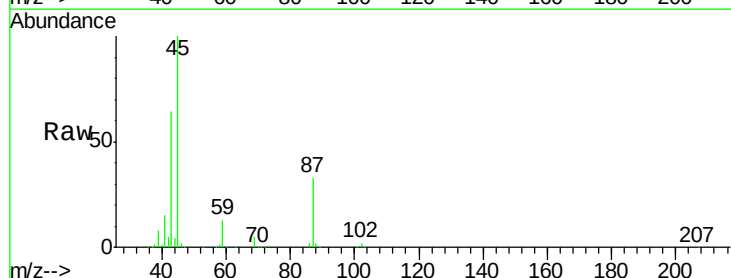
Ion Ratio Lower Upper

45 100

43 62.3 50.3 75.5

87 32.7 21.4 32.0#

59 12.3 9.7 14.5

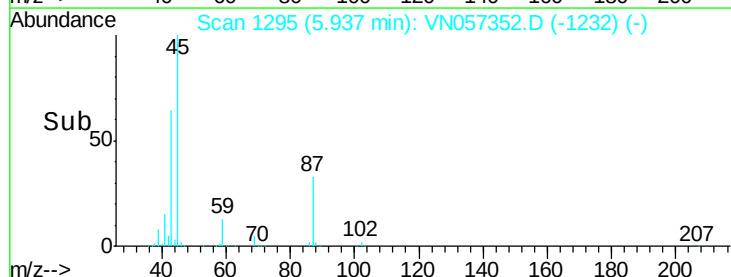
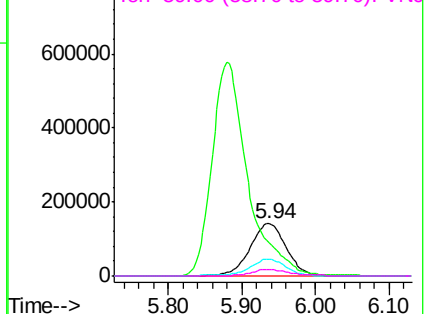


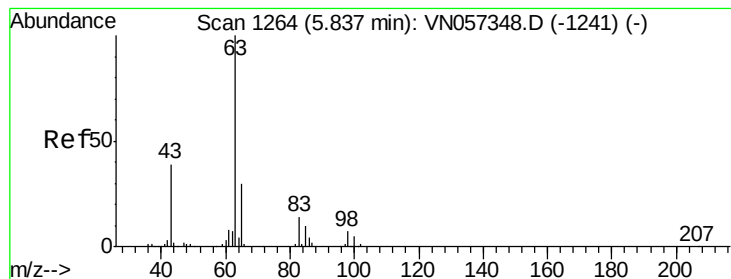
Abundance Ion 45.00 (44.70 to 45.70): VN057352.D (-1232) (-)

Ion 43.00 (42.70 to 43.70): VN057352.D (-1232) (-)

Ion 87.00 (86.70 to 87.70): VN057352.D (-1232) (-)

Ion 59.00 (58.70 to 59.70): VN057352.D (-1232) (-)





#21

1,1-Dichloroethane

Concen: 20.102 ug/l

RT: 5.84 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

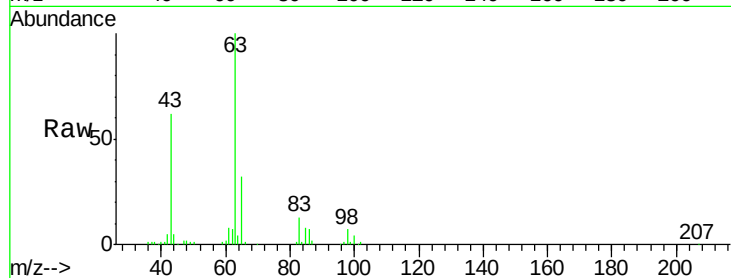
Tot Ion: 63 Resp: 296959

Ion Ratio Lower Upper

63 100

98 7.2 3.3 9.8

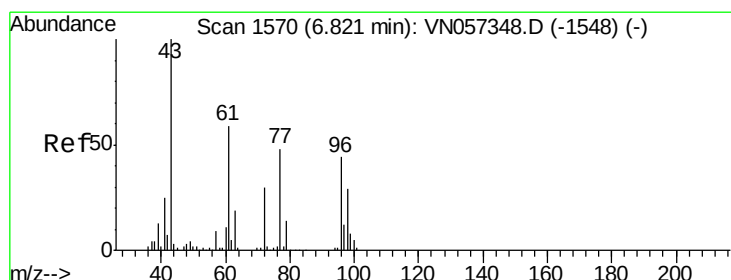
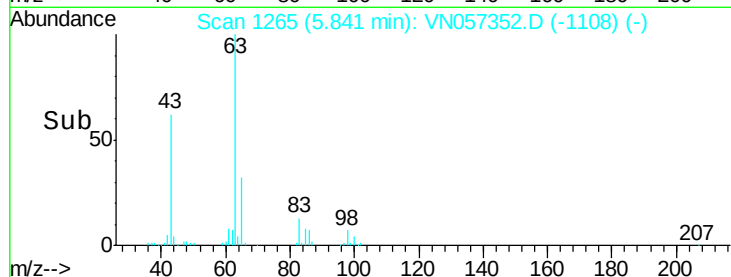
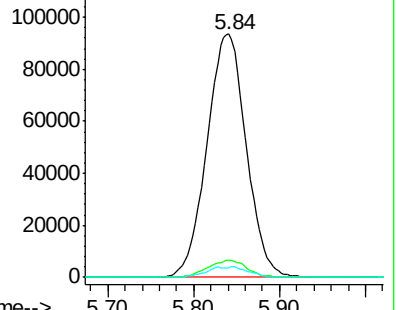
100 4.0 2.1 6.3



Abundance Ion 63.00 (62.70 to 63.70): VN057348.D (-1241) (-)

Ion 98.00 (97.70 to 98.70): VN057348.D (-1241) (-)

Ion 100.00 (99.70 to 100.70): VN057348.D (-1241) (-)



#22

cis-1,2-Dichloroethene

Concen: 20.145 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

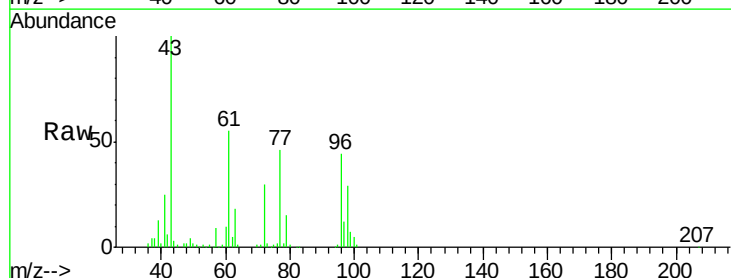
Tgt Ion: 96 Resp: 198703

Ion Ratio Lower Upper

96 100

61 134.8 112.1 168.1

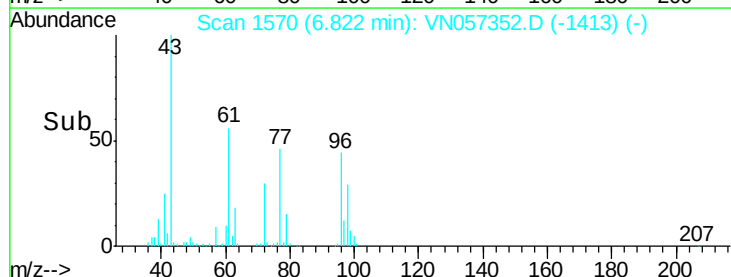
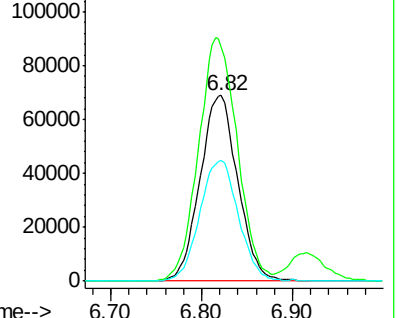
98 66.3 52.2 78.2

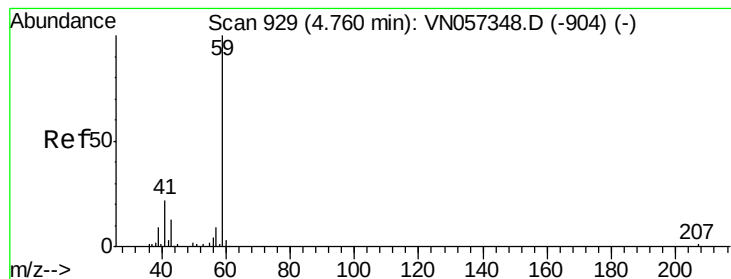


Abundance Ion 96.00 (95.70 to 96.70): VN057348.D (-1548) (-)

Ion 61.00 (60.70 to 61.70): VN057348.D (-1548) (-)

Ion 98.00 (97.70 to 98.70): VN057348.D (-1548) (-)





#23

tert-Butyl Alcohol

Concen: 99.167 ug/l

RT: 4.76 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

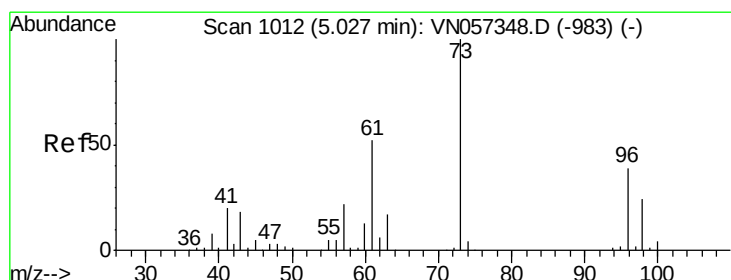
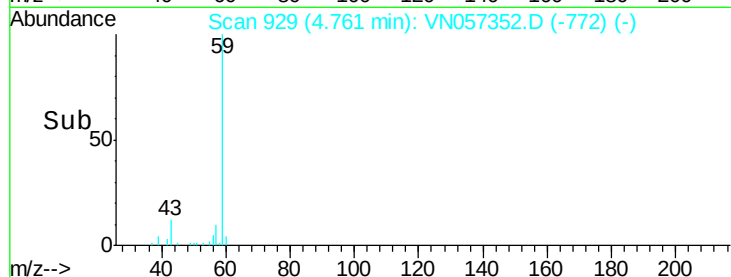
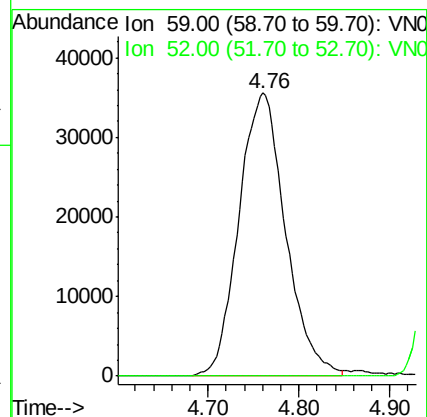
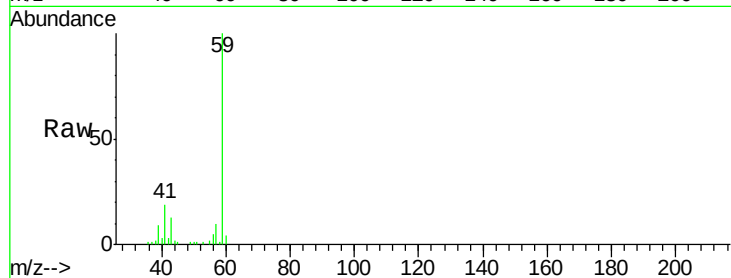
VSTDICV020

Tot Ion: 59 Resp: 126517

Ion Ratio Lower Upper

59 100

52 0.1 0.1 0.1



#24

Methyl tert-Butyl Ether

Concen: 20.097 ug/l

RT: 5.03 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VN057352.D

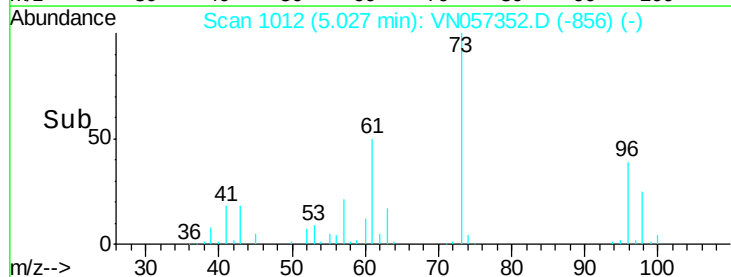
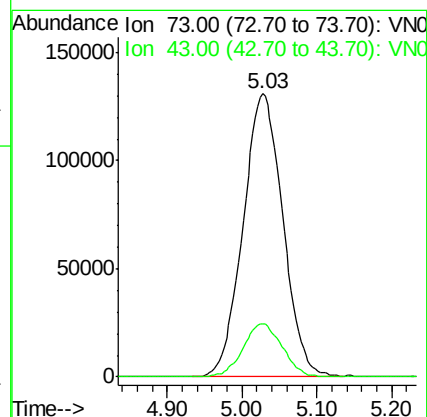
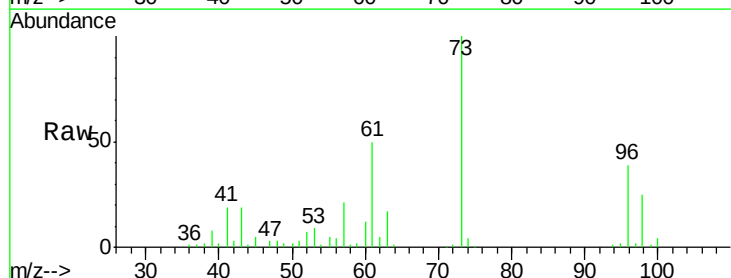
Acq: 16 Aug 2019 13:30

Tgt Ion: 73 Resp: 484781

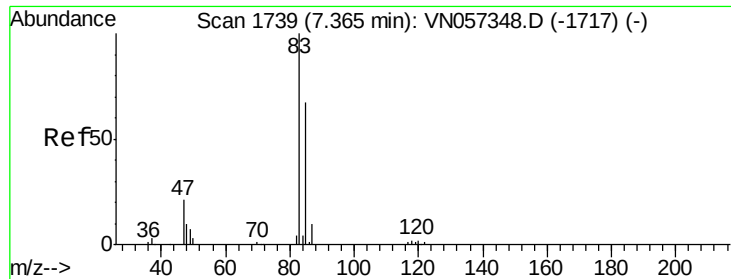
Ion Ratio Lower Upper

73 100

43 18.5 15.1 22.7



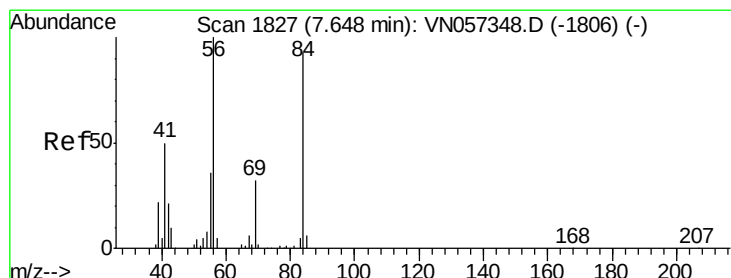
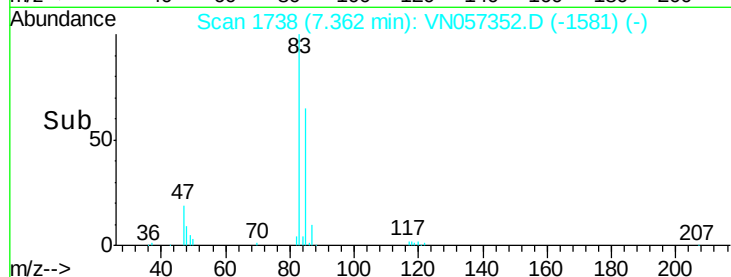
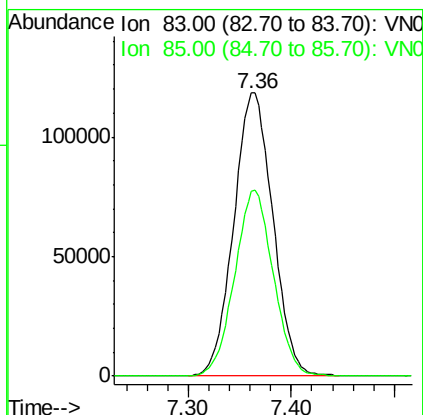
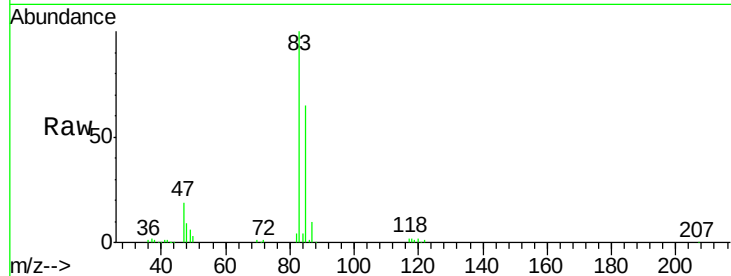




#25  
Chloroform  
Concen: 20.263 ug/l  
RT: 7.36 min Scan# 1738  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

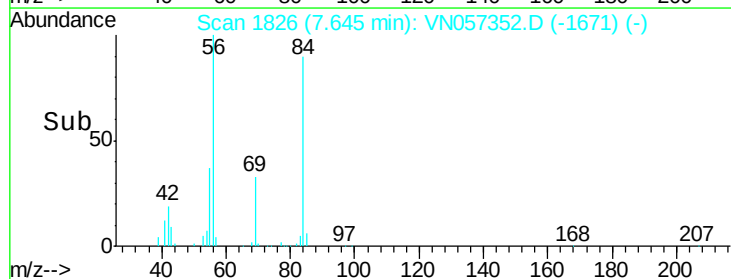
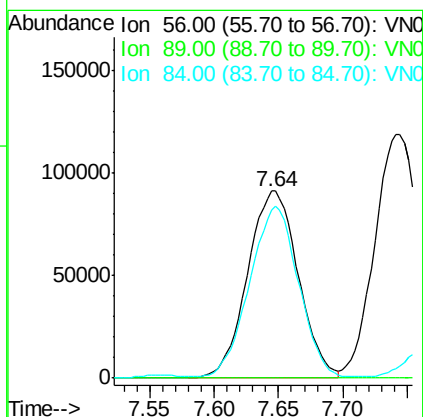
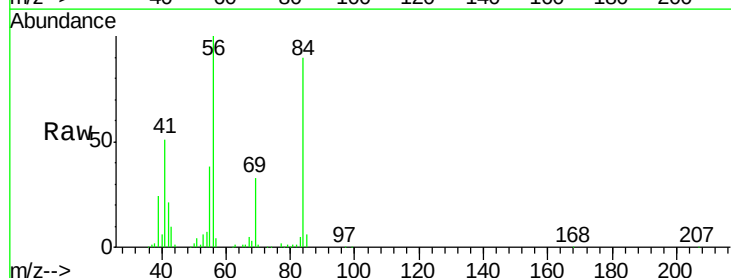
Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDICV020

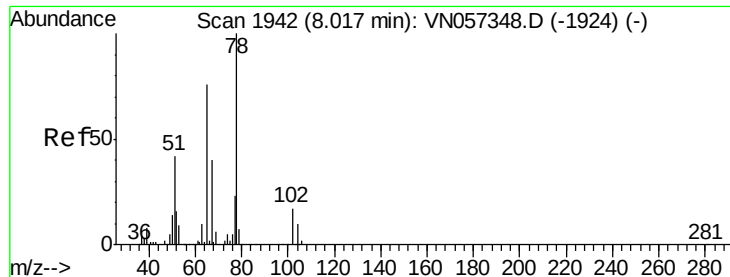
Tot Ion: 83 Resp: 312864  
Ion Ratio Lower Upper  
83 100  
85 65.1 52.6 79.0



#26  
Cyclohexane  
Concen: 20.309 ug/l  
RT: 7.64 min Scan# 1826  
Delta R.T. -0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Tgt Ion: 56 Resp: 249384  
Ion Ratio Lower Upper  
56 100  
89 0.0 1.4 2.2#  
84 89.5 68.2 102.4





#27

1,2-Dichloroethane-d4

Concen: 29.072 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

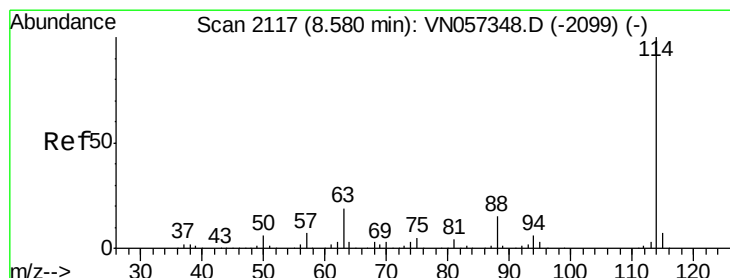
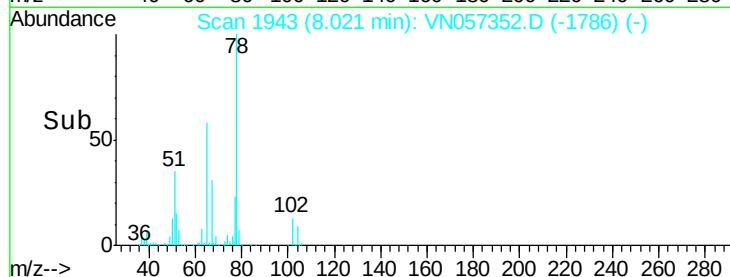
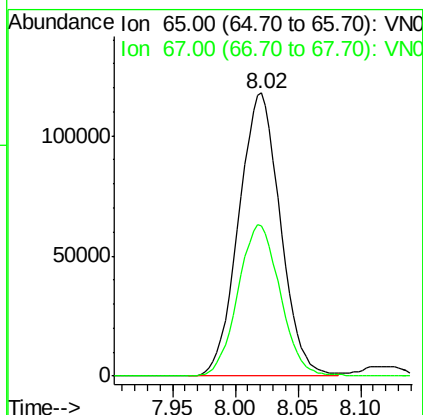
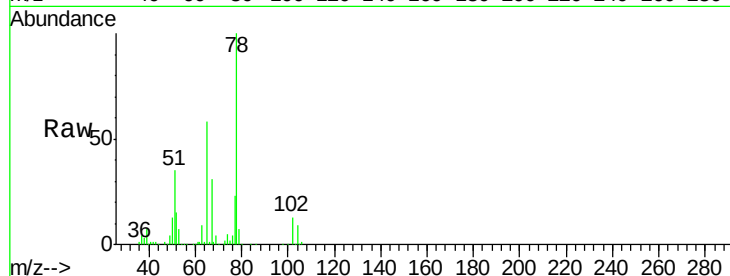
VSTDICV020

Tot Ion: 65 Resp: 272381

Ion Ratio Lower Upper

65 100

67 54.1 43.4 65.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

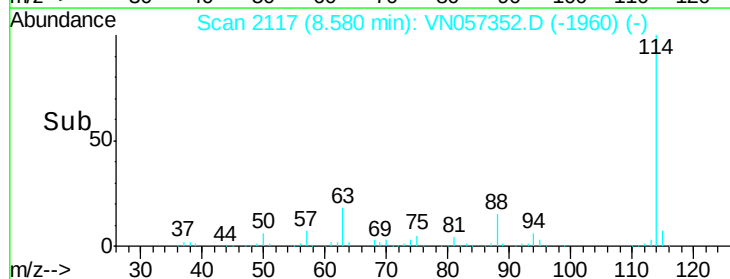
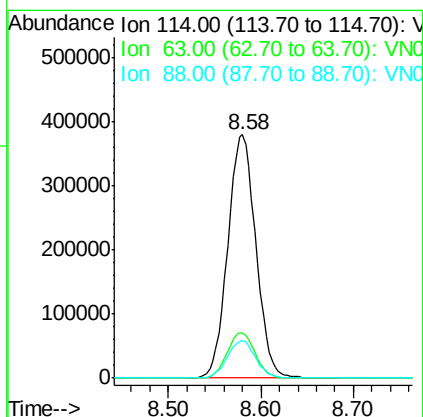
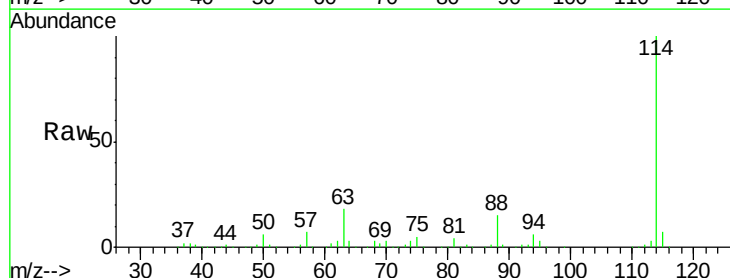
Tgt Ion: 114 Resp: 797401

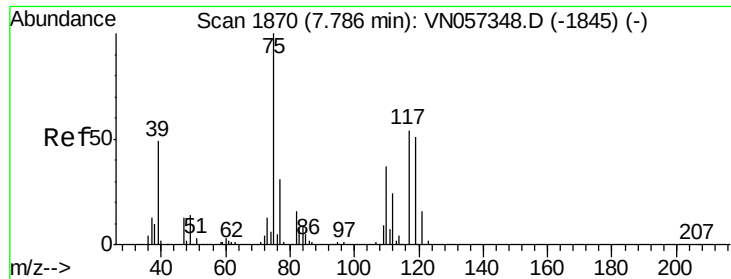
Ion Ratio Lower Upper

114 100

63 18.5 16.2 24.2

88 15.4 12.3 18.5

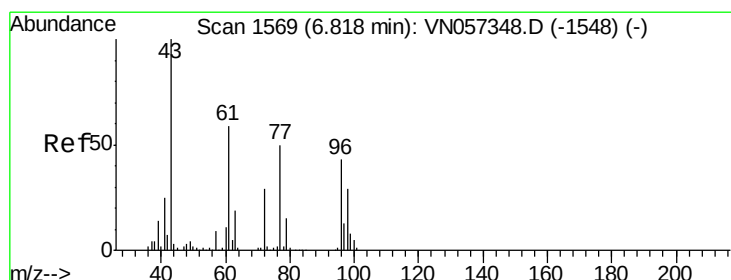
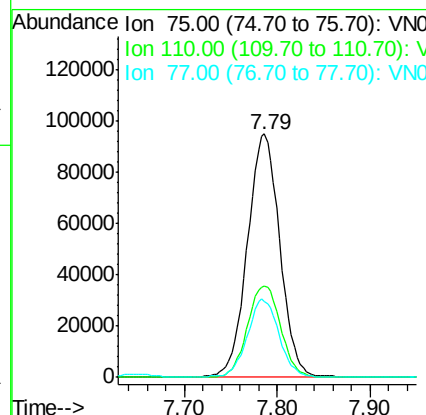
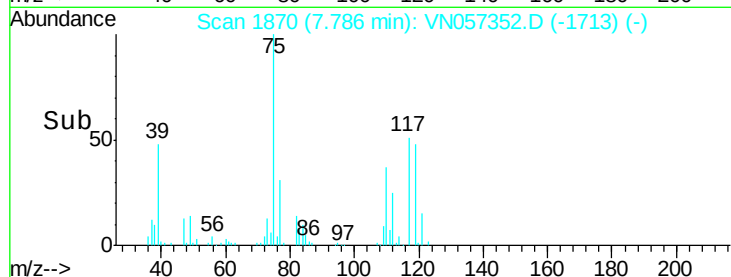
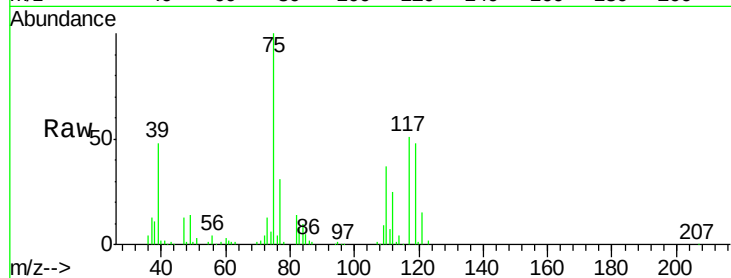




#29  
 1,1-Dichloropropene  
 Concen: 19.874 ug/l  
 RT: 7.79 min Scan# 1870  
 Delta R.T. 0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

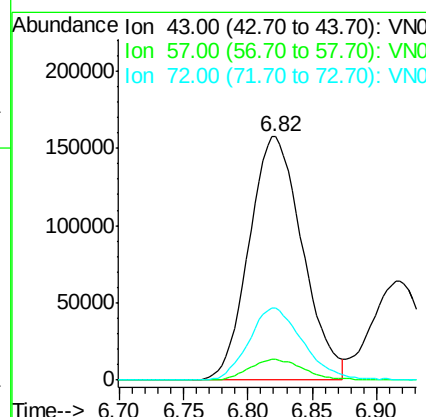
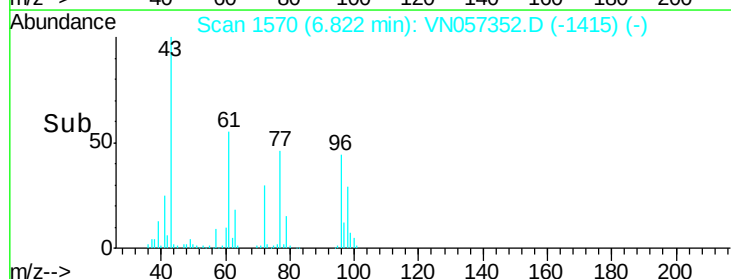
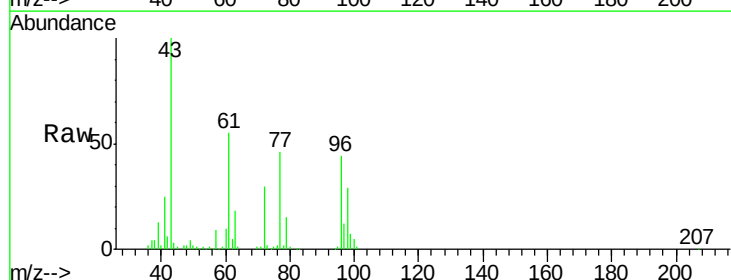
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICV020

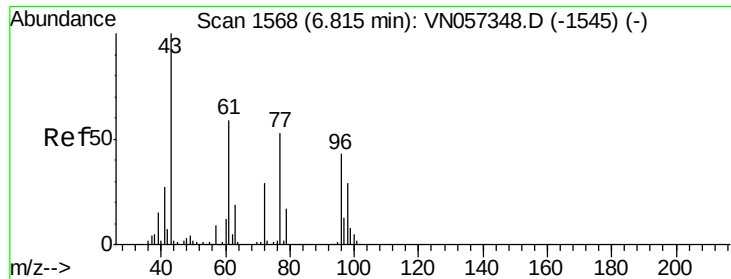
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 38.4  | 0.0   | 72.4  |
| 77      | 31.4  | 0.0   | 62.2  |



#30  
 2-Butanone  
 Concen: 98.891 ug/l  
 RT: 6.82 min Scan# 1570  
 Delta R.T. -0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.8   | 6.6   | 10.0  |
| 72      | 29.9  | 21.3  | 31.9  |

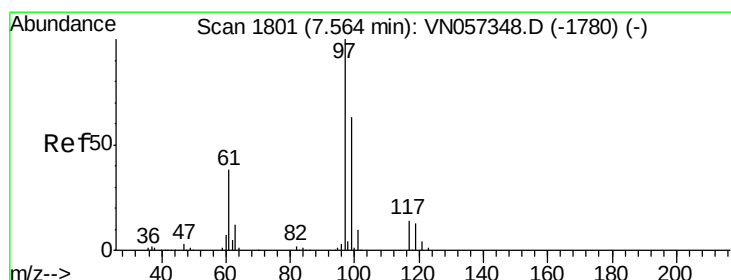
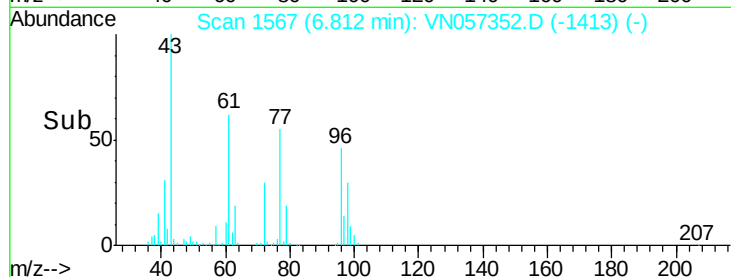
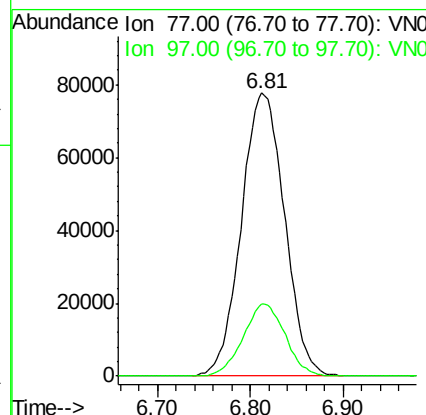
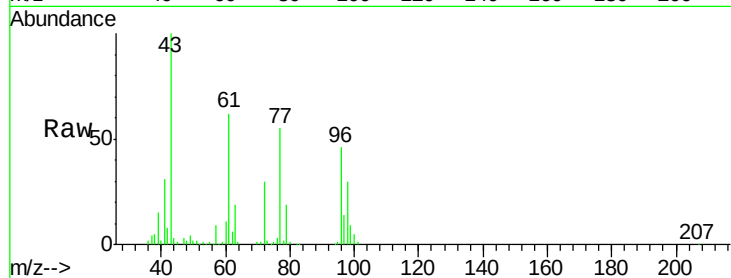




#31  
 2,2-Dichloropropane  
 Concen: 19.774 ug/l  
 RT: 6.81 min Scan# 1567  
 Delta R.T. -0.01 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

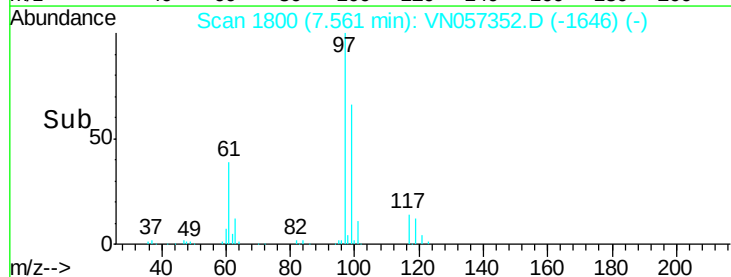
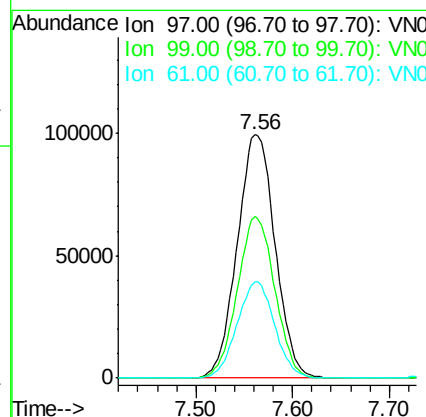
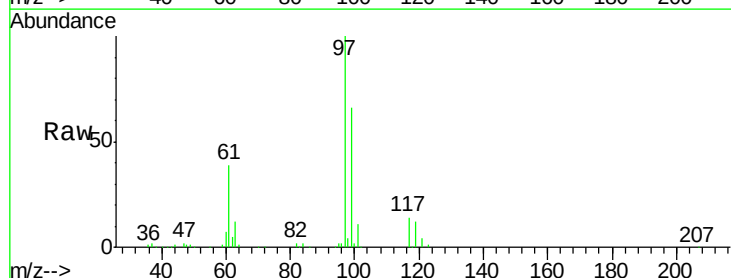
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICV020

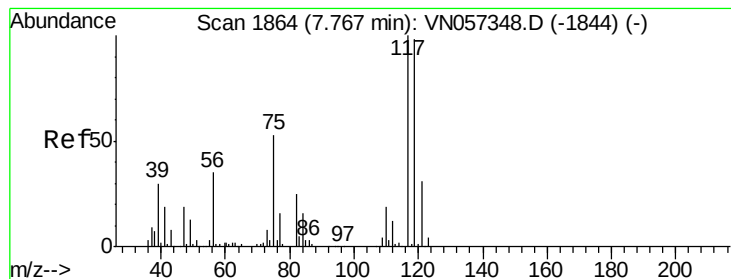
Tot Ion: 77 Resp: 251262  
 Ion Ratio Lower Upper  
 77 100  
 97 24.8 19.7 29.5



#32  
 1,1,1-Trichloroethane  
 Concen: 19.754 ug/l  
 RT: 7.56 min Scan# 1800  
 Delta R.T. -0.01 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

Tgt Ion: 97 Resp: 270873  
 Ion Ratio Lower Upper  
 97 100  
 99 65.6 52.0 78.0  
 61 39.1 34.4 51.6





#33

Carbon Tetrachloride

Concen: 19.848 ug/l

RT: 7.77 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

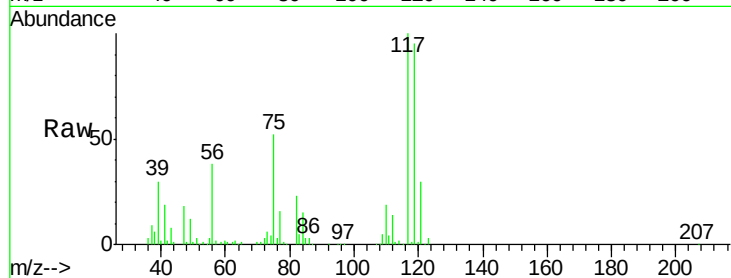
Tot Ion:117 Resp: 242343

Ion Ratio Lower Upper

117 100

119 95.2 78.7 118.1

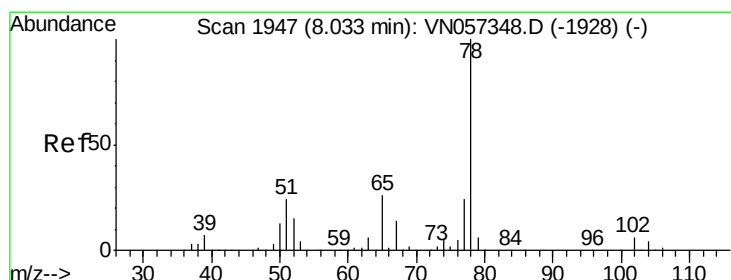
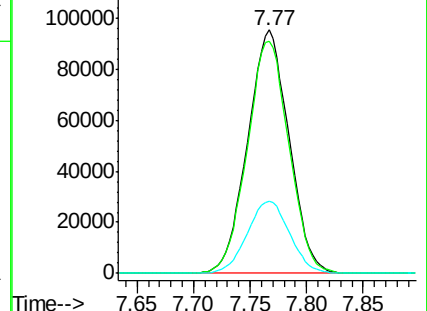
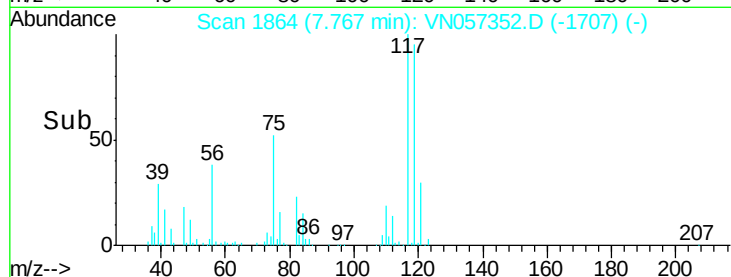
121 29.6 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 20.066 ug/l

RT: 8.03 min Scan# 1947

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

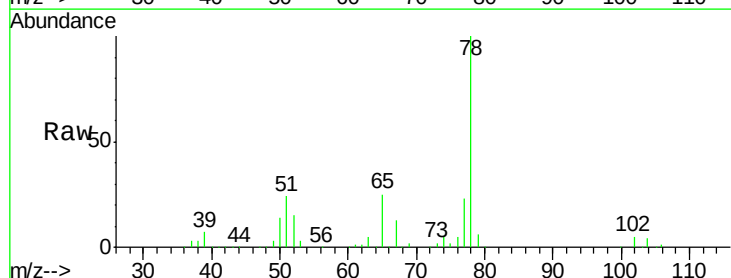
Tgt Ion: 78 Resp: 706109

Ion Ratio Lower Upper

78 100

77 22.8 19.0 28.4

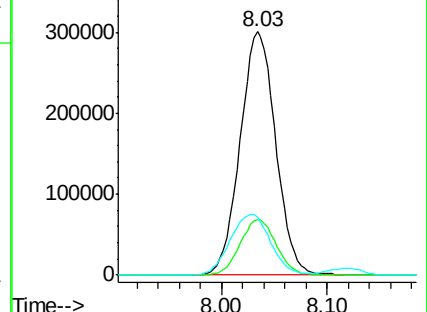
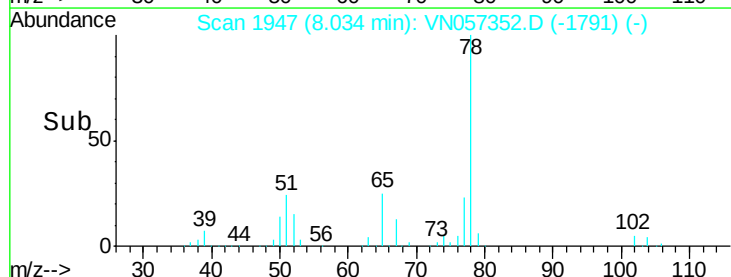
51 23.6 19.7 29.5

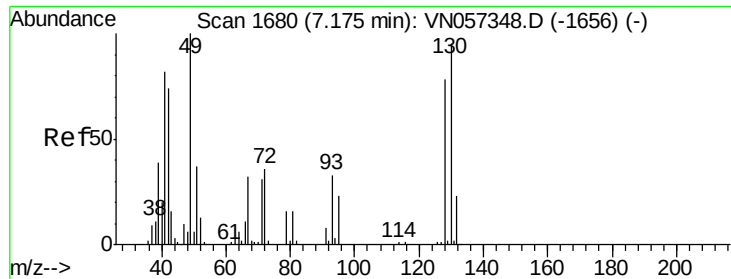


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

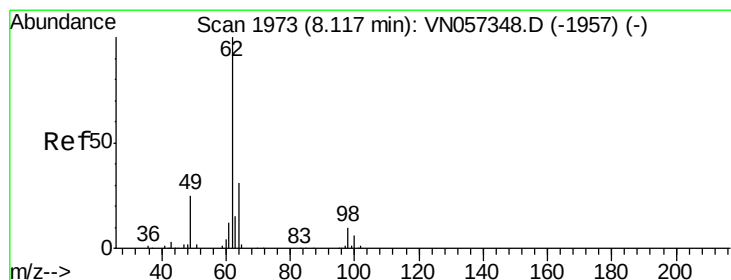
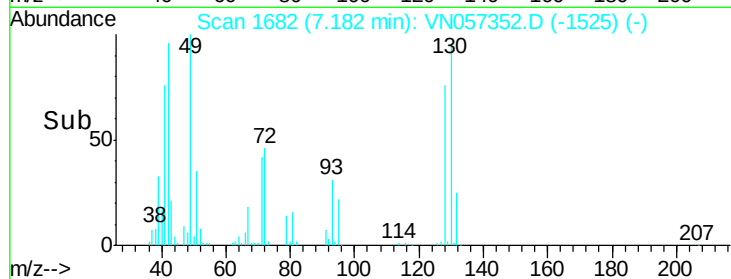
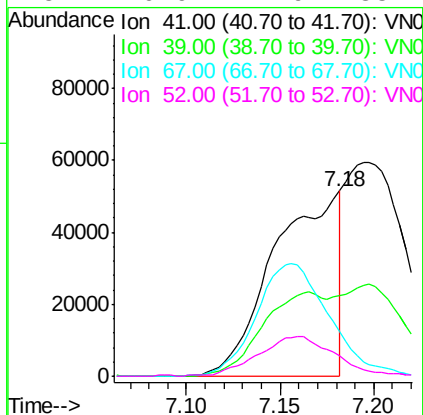
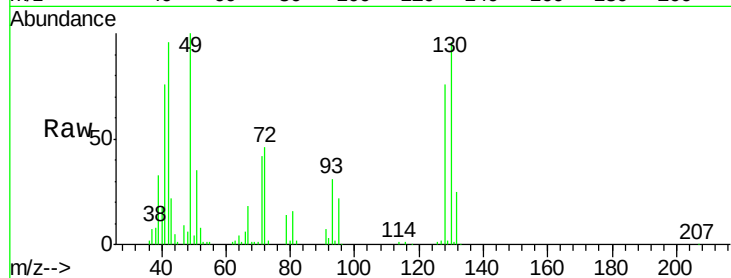




#35  
Methacrylonitrile  
Concen: 20.071 ug/l m  
RT: 7.18 min Scan# 1682  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

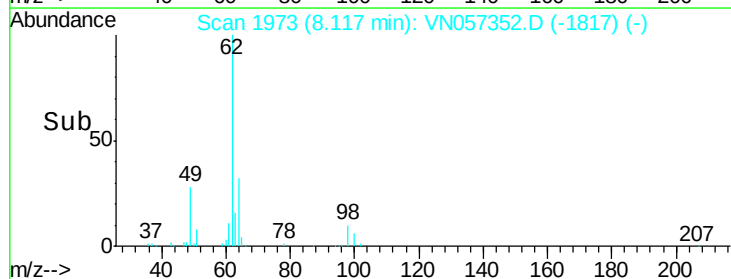
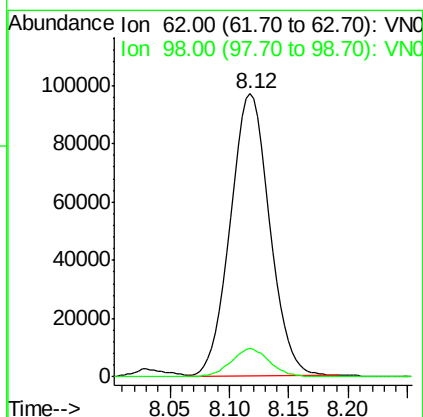
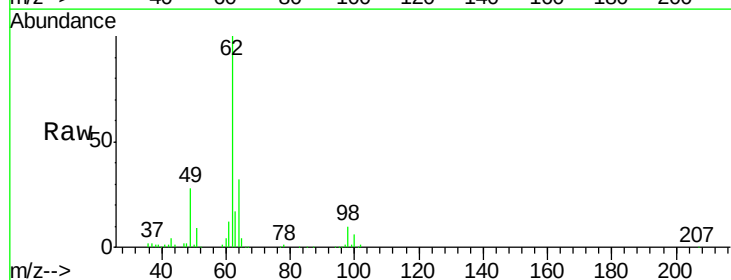
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICV020

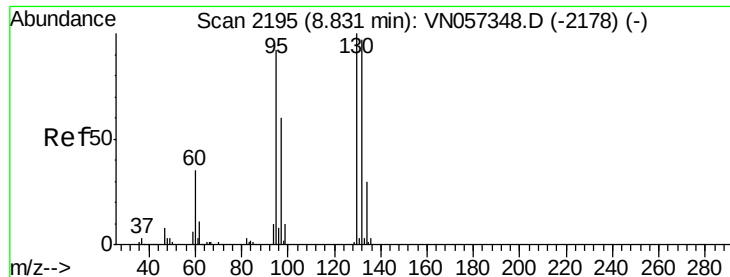
Tot Ion: 41 Resp: 125489  
Ion Ratio Lower Upper  
41 100  
39 43.8 25.4 76.2  
67 24.0 33.6 100.8#  
52 10.9 12.9 38.7#



#36  
1,2-Dichloroethane  
Concen: 19.431 ug/l  
RT: 8.12 min Scan# 1973  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Tgt Ion: 62 Resp: 222214  
Ion Ratio Lower Upper  
62 100  
98 9.8 7.7 11.5





#37

Trichloroethene

Concen: 20.454 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

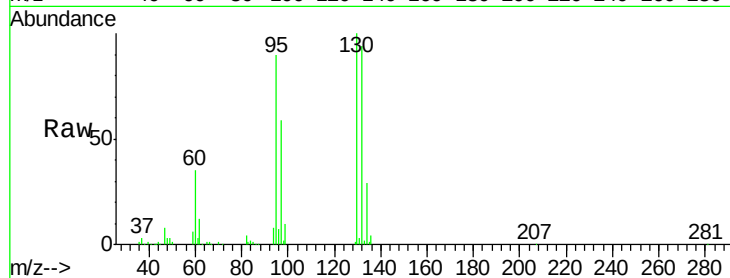
VSTDICV020

Tot Ion:130 Resp: 209508

Ion Ratio Lower Upper

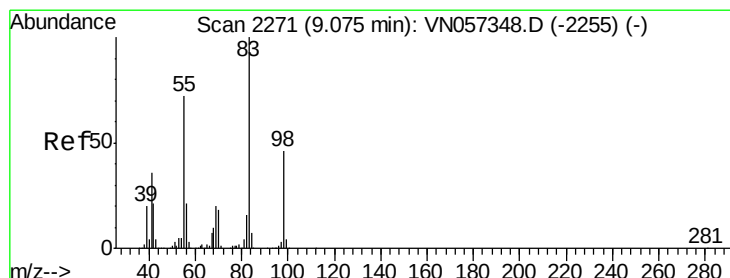
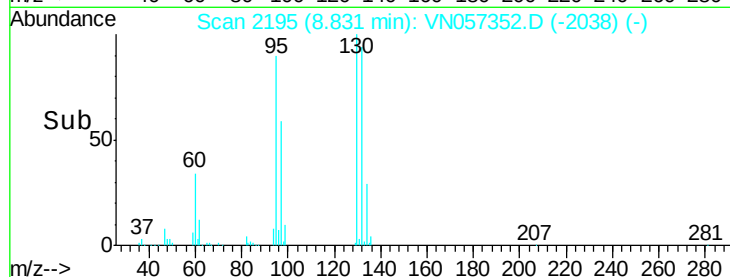
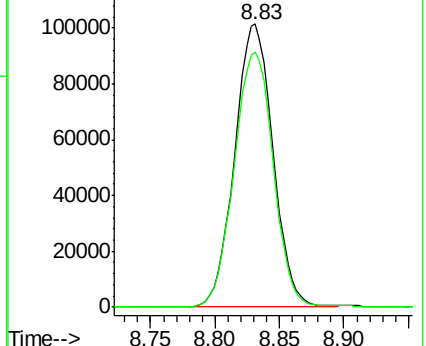
130 100

95 90.0 78.4 117.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#38

Methylcyclohexane

Concen: 20.018 ug/l

RT: 9.08 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

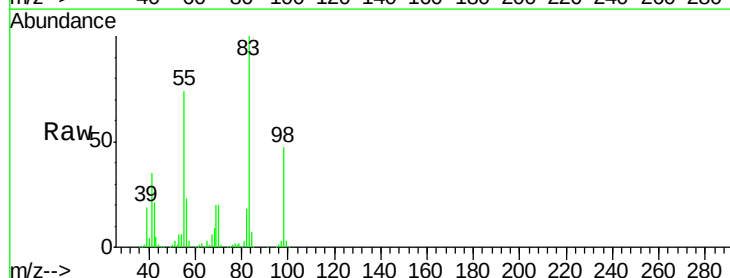
Tgt Ion: 83 Resp: 274996

Ion Ratio Lower Upper

83 100

55 72.8 38.4 115.2

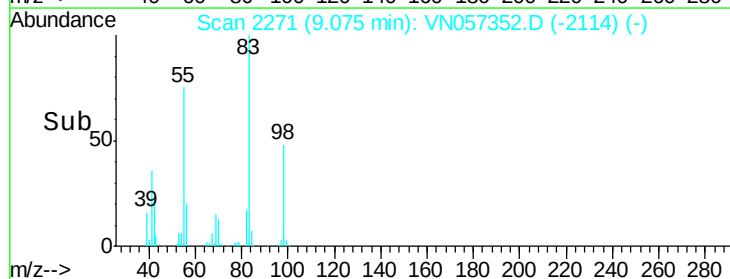
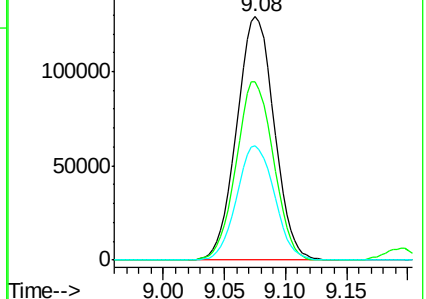
98 47.3 23.3 69.9

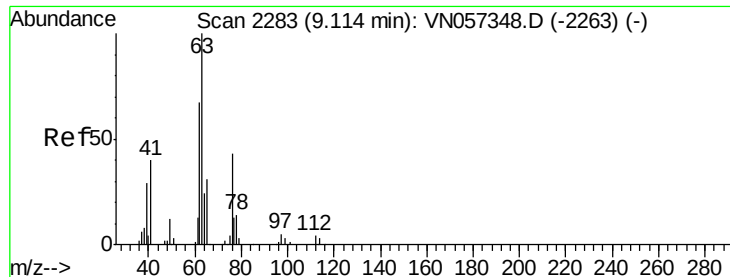


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN





#39

1,2-Dichloropropane

Concen: 19.839 ug/l

RT: 9.11 min Scan# 2283

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

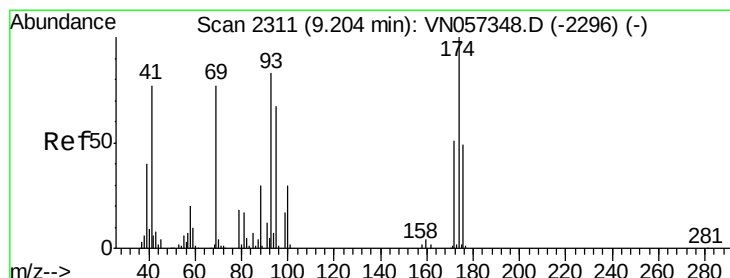
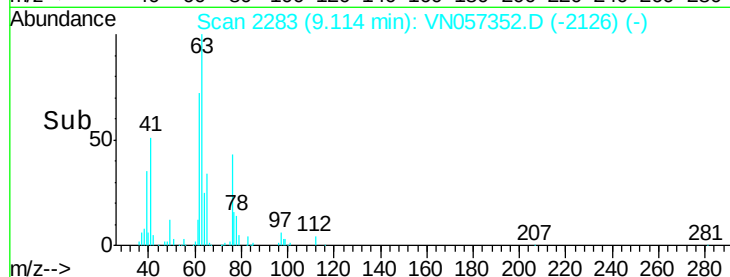
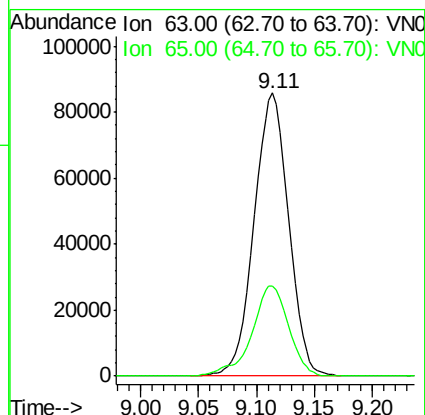
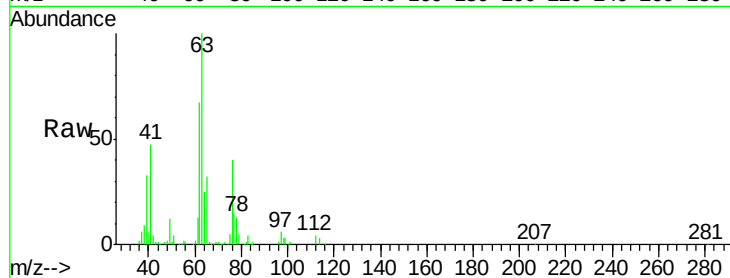
VSTDICV020

Tot Ion: 63 Resp: 178434

Ion Ratio Lower Upper

63 100

65 31.8 24.6 36.8



#40

Dibromomethane

Concen: 19.900 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

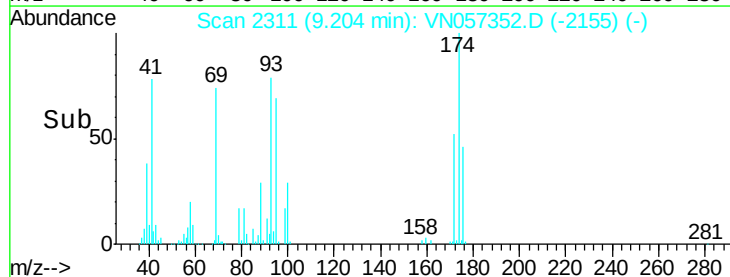
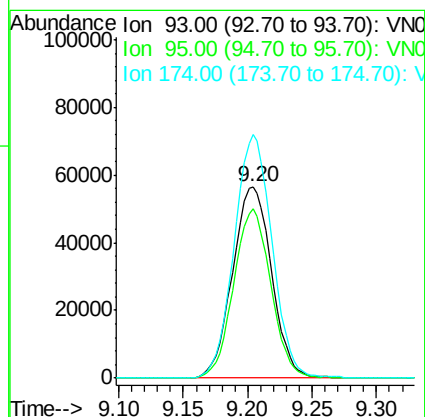
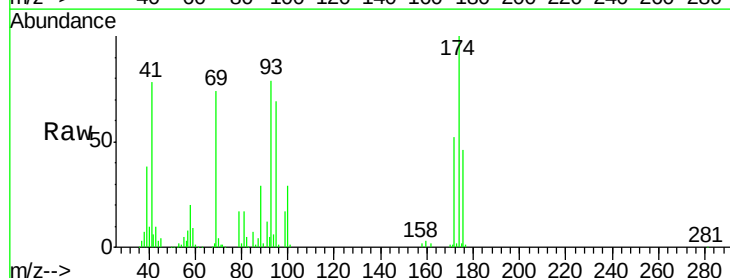
Tgt Ion: 93 Resp: 119068

Ion Ratio Lower Upper

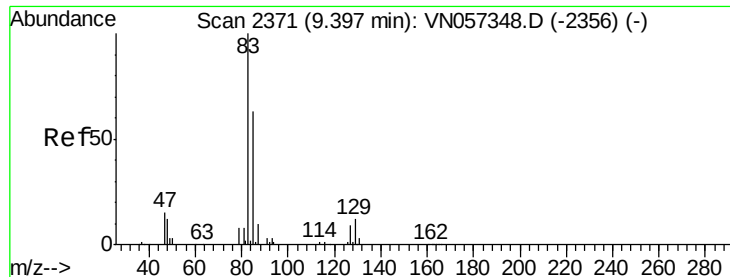
93 100

95 84.2 0.0 167.0

174 123.6 0.0 224.2







#41

Bromodichloromethane

Concen: 19.816 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

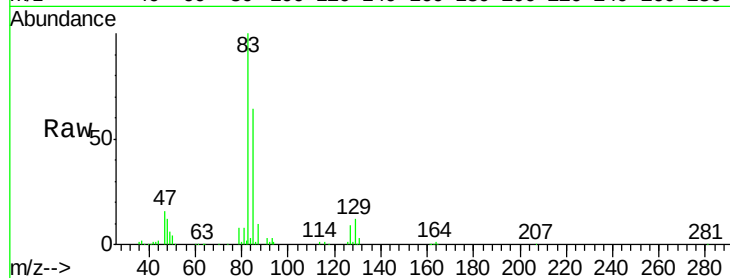
Tot Ion: 83 Resp: 240246

Ion Ratio Lower Upper

83 100

85 64.1 50.1 75.1

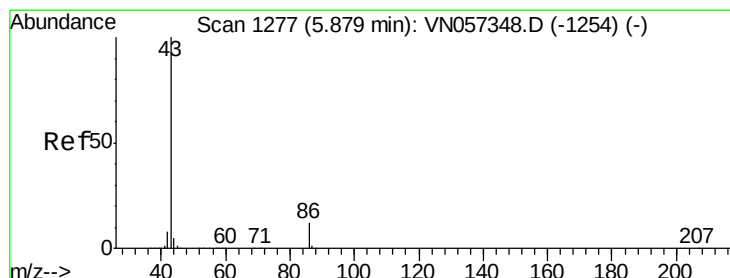
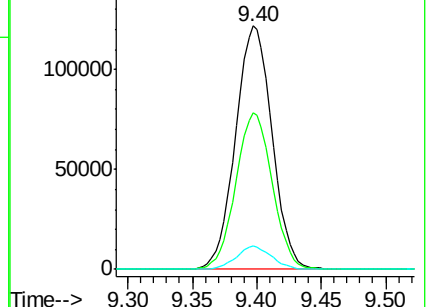
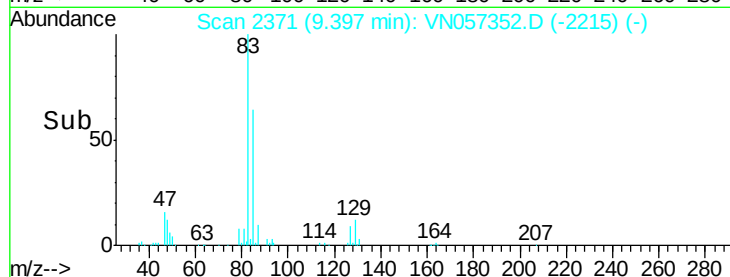
127 9.5 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VN057352.D (-2215) (-)

Ion 85.00 (84.70 to 85.70): VN057352.D (-2215) (-)

Ion 127.00 (126.70 to 127.70): VN057352.D (-2215) (-)



#42

Vinyl Acetate

Concen: 101.021 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VN057352.D

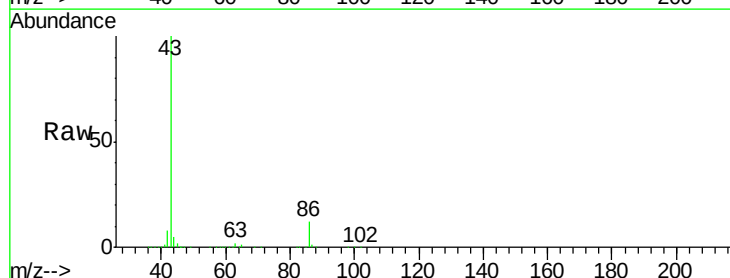
Acq: 16 Aug 2019 13:30

Tgt Ion: 43 Resp: 1945297

Ion Ratio Lower Upper

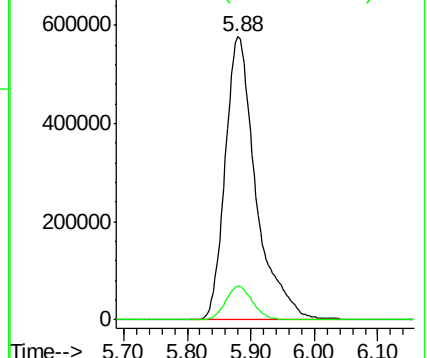
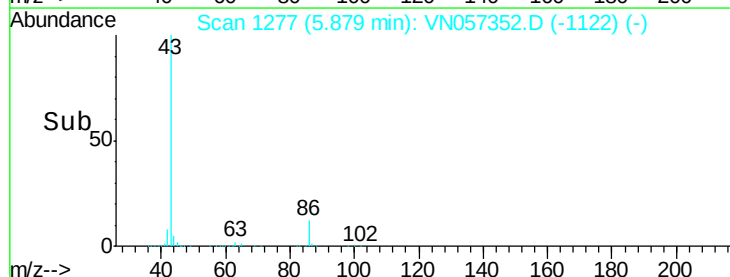
43 100

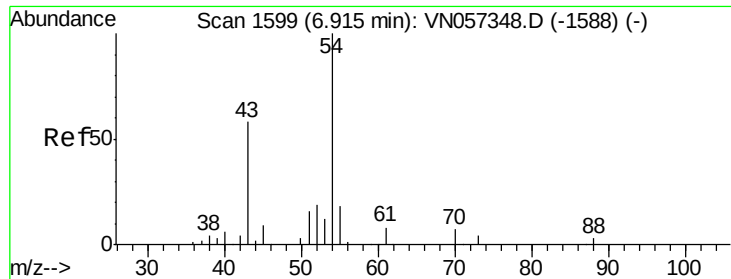
86 10.4 7.4 11.2



Abundance Ion 43.00 (42.70 to 43.70): VN057352.D (-1122) (-)

Ion 86.00 (85.70 to 86.70): VN057352.D (-1122) (-)

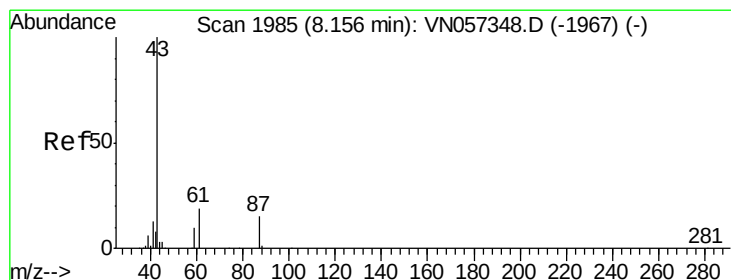
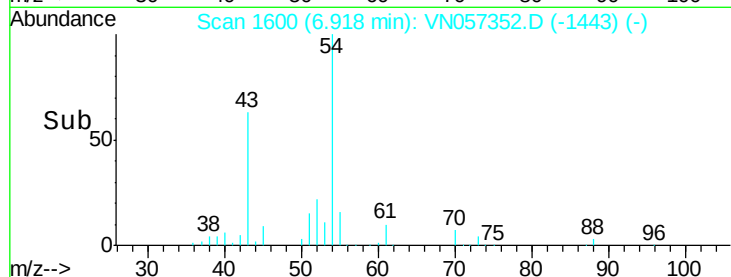
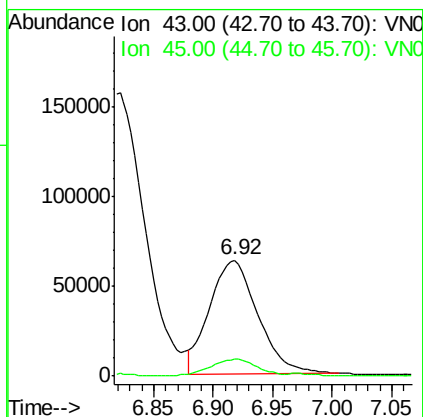
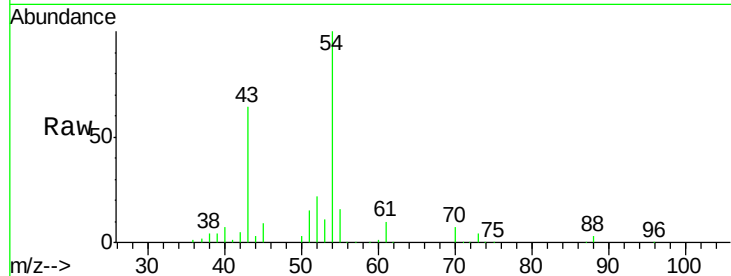




#43  
Ethyl Acetate  
Concen: 19.108 ug/l  
RT: 6.92 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

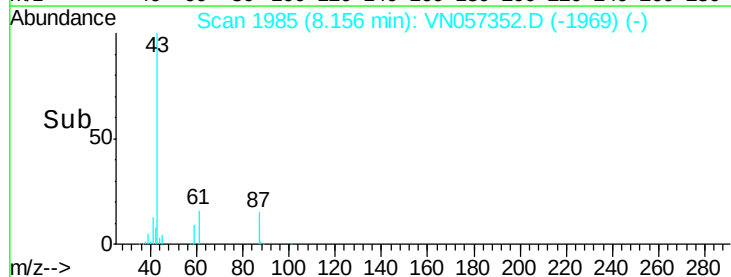
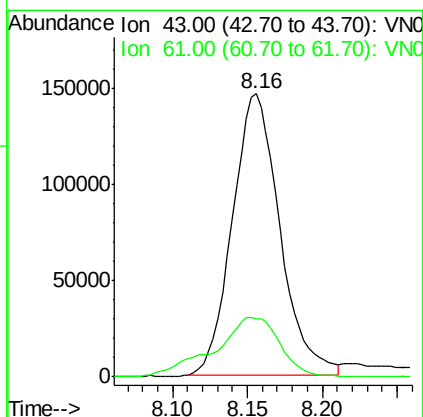
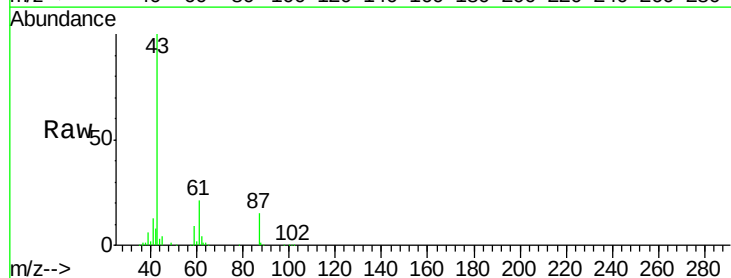
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICV020

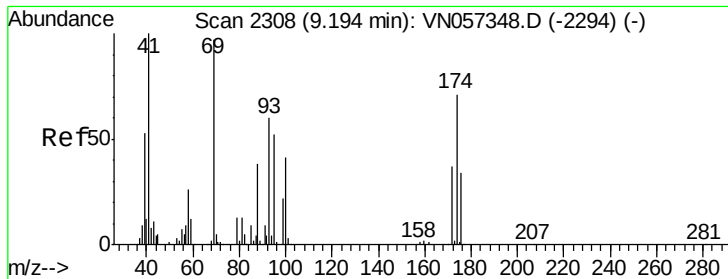
Tot Ion: 43 Resp: 179411  
Ion Ratio Lower Upper  
43 100  
45 14.5 11.2 16.8



#44  
Isopropyl Acetate  
Concen: 19.467 ug/l  
RT: 8.16 min Scan# 1985  
Delta R.T. -0.45 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Tgt Ion: 43 Resp: 322151  
Ion Ratio Lower Upper  
43 100  
61 22.8 22.6 33.8

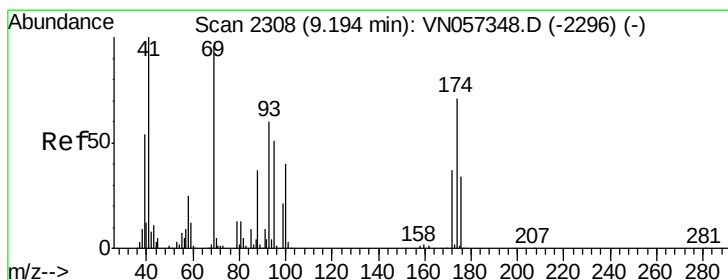
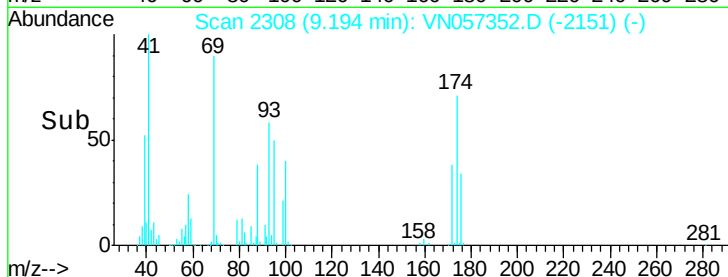
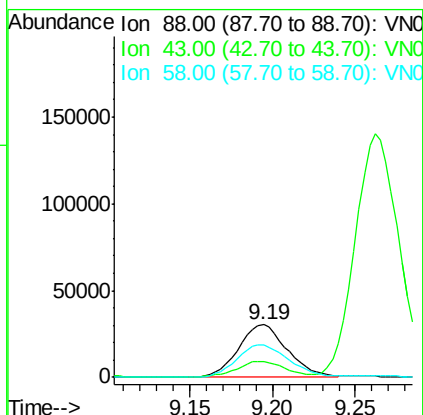
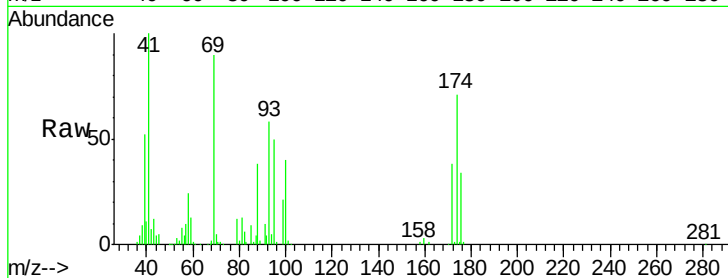




#45  
1,4-Dioxane  
Concen: 399.601 ug/l  
RT: 9.19 min Scan# 2308  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

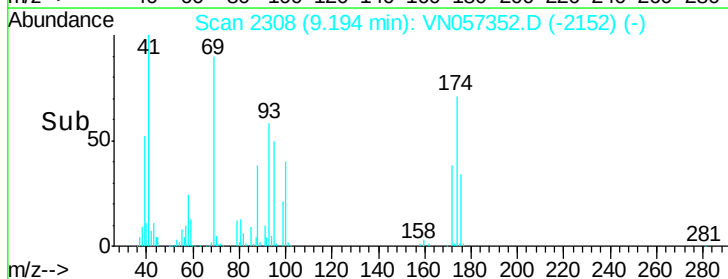
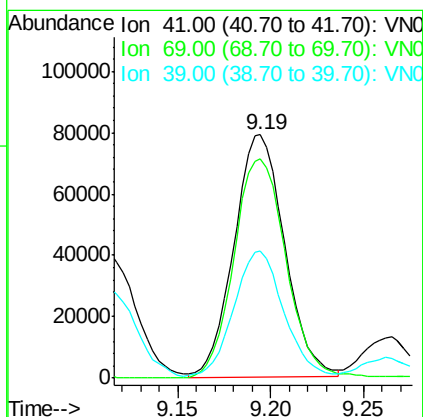
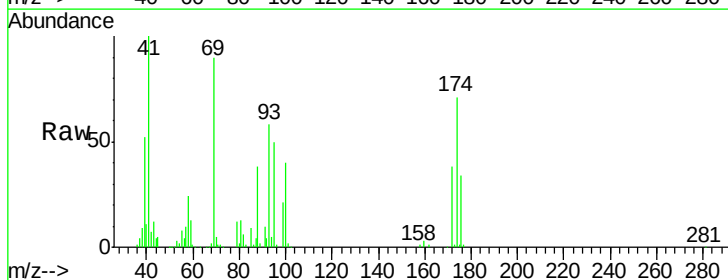
Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDICV020

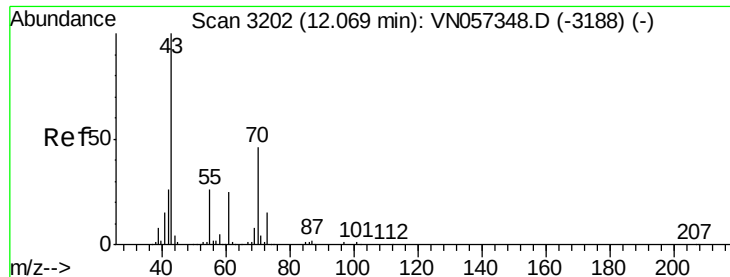
| Tot Ion | 88    | Resp  | 62239 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 88      | 100   |       |       |
| 43      | 30.0  | 23.0  | 34.6  |
| 58      | 66.4  | 54.6  | 81.8  |



#46  
Methyl methacrylate  
Concen: 20.339 ug/l  
RT: 9.19 min Scan# 2308  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

| Tgt Ion | 41    | Resp  | 150694 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 41      | 100   |       |        |
| 69      | 91.1  | 43.0  | 129.0  |
| 39      | 51.9  | 25.1  | 75.4   |





#47

n-amyl Acetate

Concen: 20.837 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

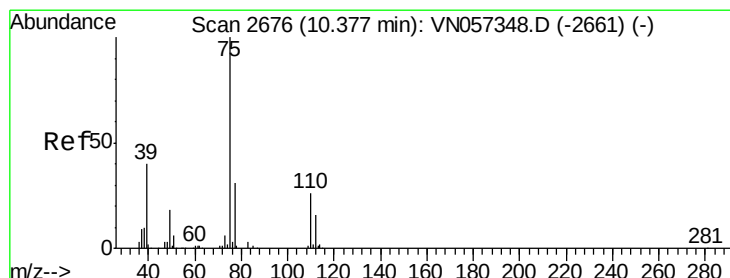
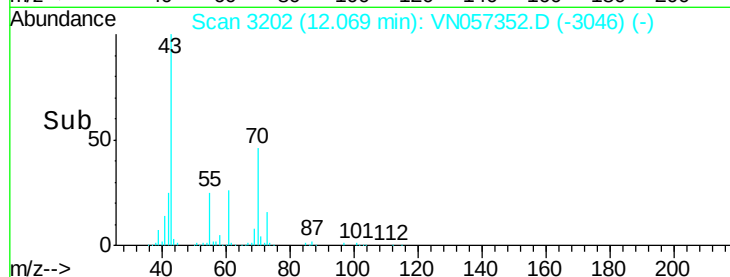
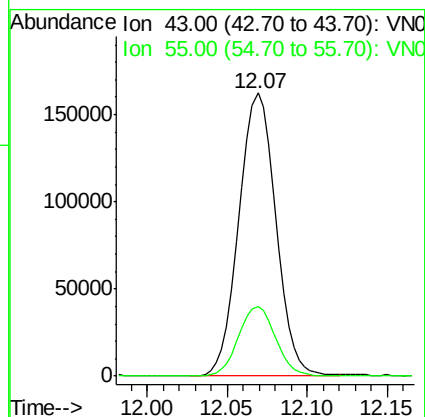
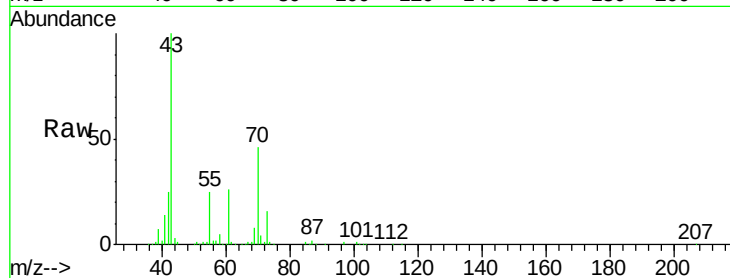
VSTDICV020

Tot Ion: 43 Resp: 254393

Ion Ratio Lower Upper

43 100

55 25.0 20.7 31.1



#48

t-1,3-Dichloropropene

Concen: 19.570 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057352.D

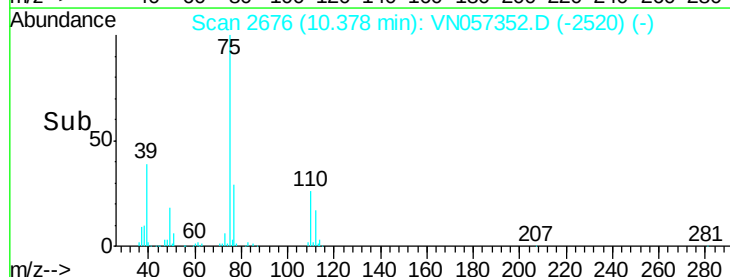
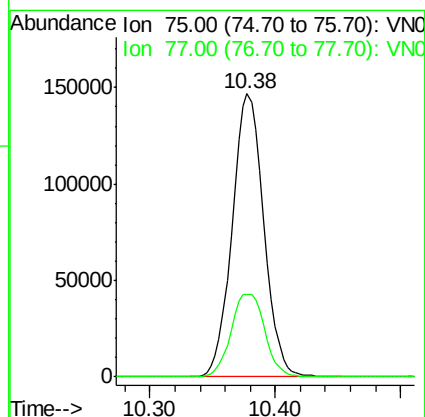
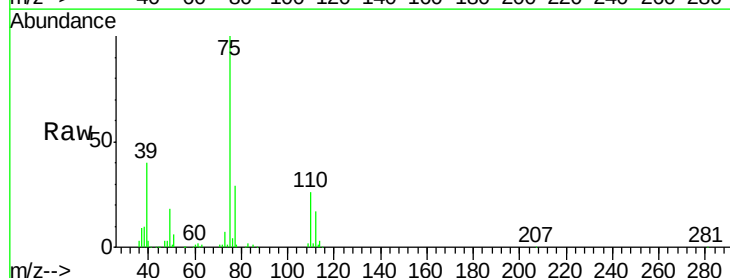
Acq: 16 Aug 2019 13:30

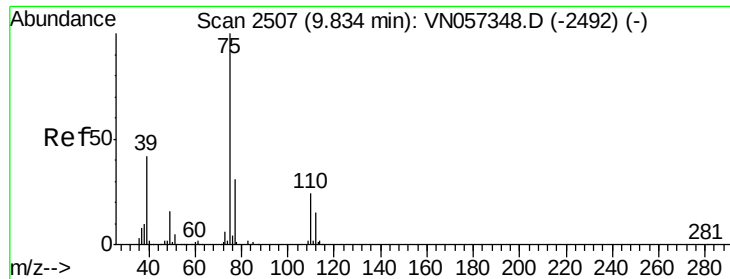
Tgt Ion: 75 Resp: 256685

Ion Ratio Lower Upper

75 100

77 29.2 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 19.869 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

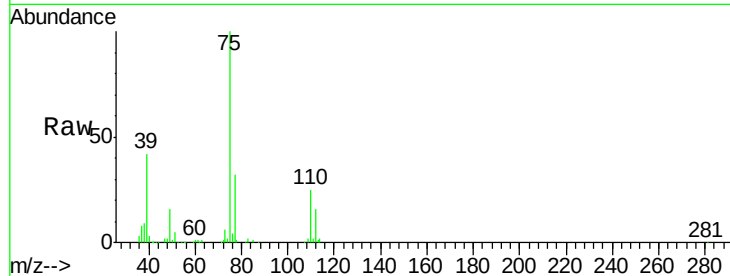
Tot Ion: 75 Resp: 290150

Ion Ratio Lower Upper

75 100

77 31.8 26.0 39.0

39 41.6 36.2 54.4

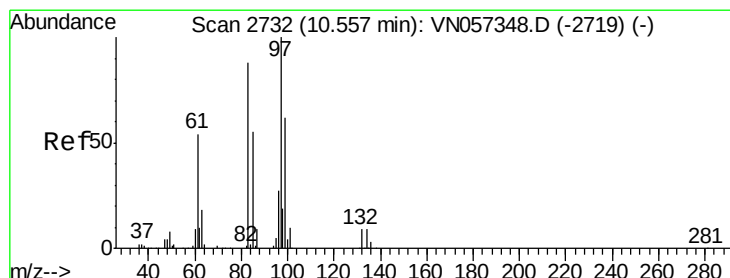
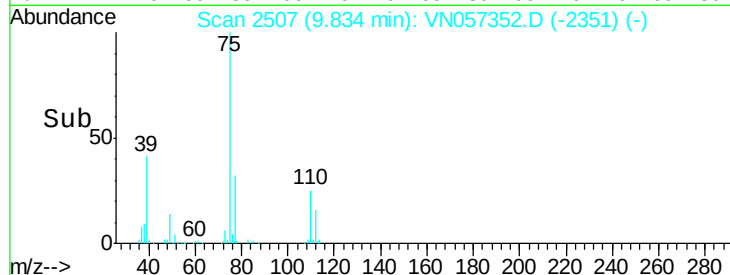
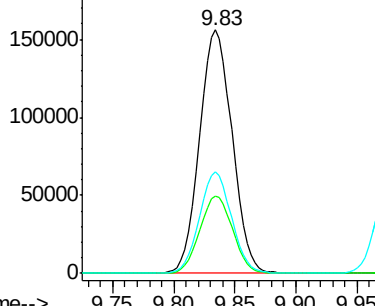


Abundance

Ion 75.00 (74.70 to 75.70): VNO

Ion 77.00 (76.70 to 77.70): VNO

Ion 39.00 (38.70 to 39.70): VNO



#50

1,1,2-Trichloroethane

Concen: 19.940 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Tgt Ion: 97 Resp: 174117

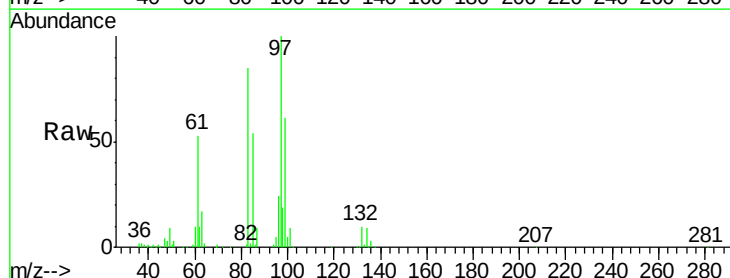
Ion Ratio Lower Upper

97 100

83 84.6 69.2 103.8

85 54.2 45.3 67.9

99 61.3 51.6 77.4



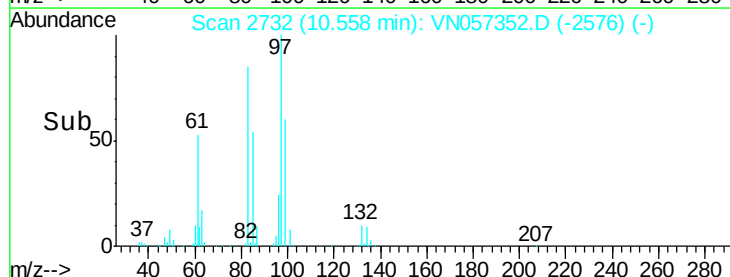
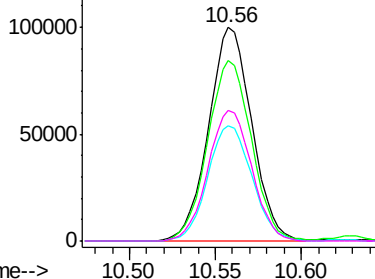
Abundance

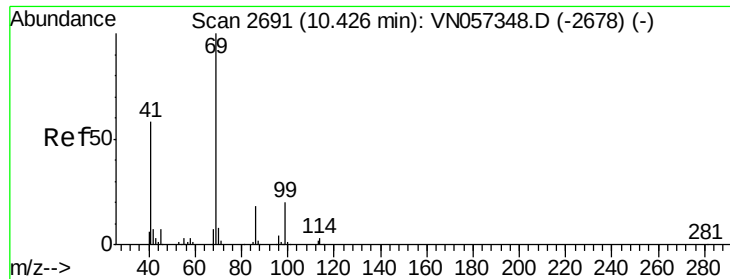
Ion 97.00 (96.70 to 97.70): VNO

Ion 82.95 (82.65 to 83.65): VNO

Ion 84.95 (84.65 to 85.65): VNO

Ion 98.95 (98.65 to 99.65): VNO





#51

Ethyl methacrylate

Concen: 19.720 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

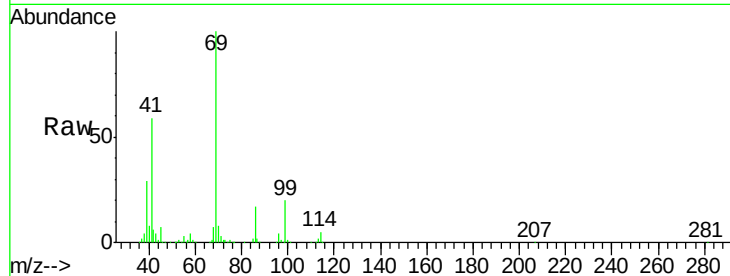
Tot Ion: 69 Resp: 249619

Ion Ratio Lower Upper

69 100

41 58.9 32.8 98.3

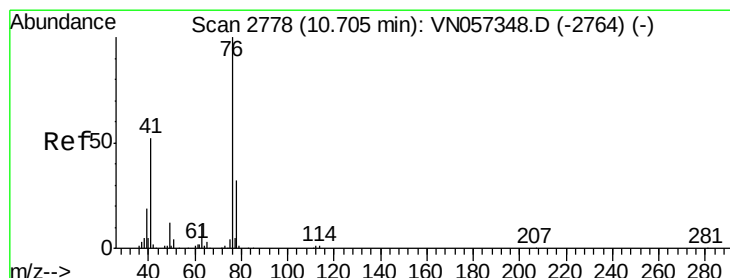
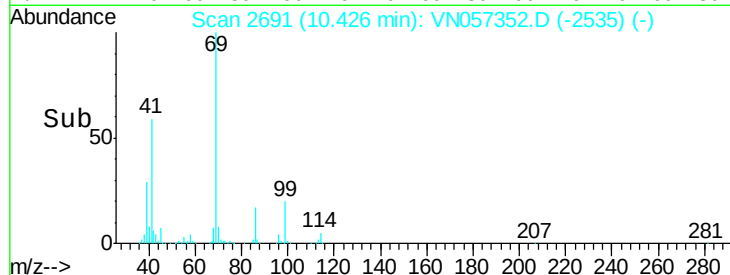
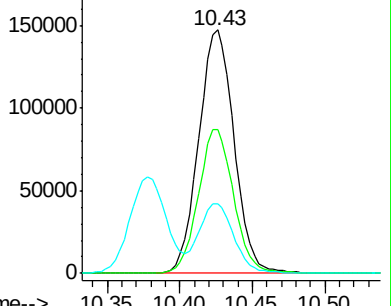
39 28.4 15.4 46.2



Abundance Ion 69.00 (68.70 to 69.70): VN057348.D (-2678) (-)

Ion 41.00 (40.70 to 41.70): VN057348.D (-2678) (-)

Ion 39.00 (38.70 to 39.70): VN057348.D (-2678) (-)



#52

1,3-Dichloropropane

Concen: 19.832 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN057352.D

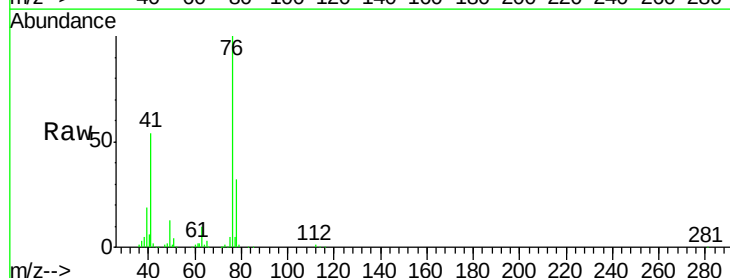
Acq: 16 Aug 2019 13:30

Tgt Ion: 76 Resp: 282813

Ion Ratio Lower Upper

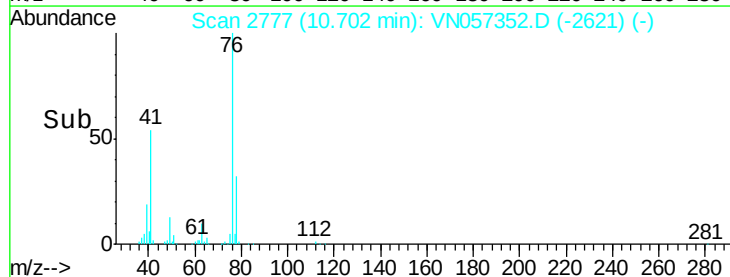
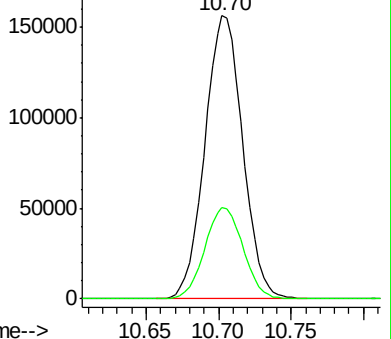
76 100

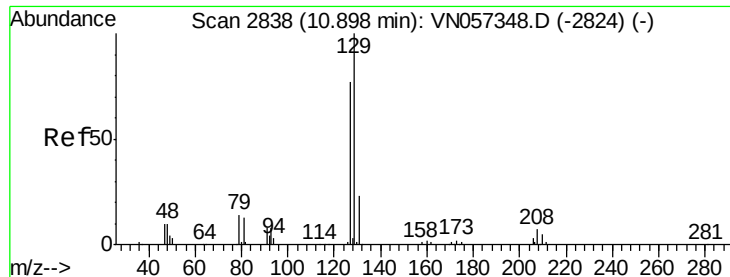
78 32.7 0.0 63.6



Abundance Ion 76.00 (75.70 to 76.70): VN057348.D (-2764) (-)

Ion 78.00 (77.70 to 78.70): VN057348.D (-2764) (-)





#53

Dibromochloromethane

Concen: 19.753 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

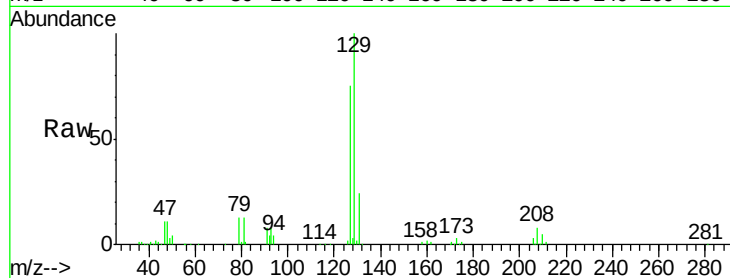
VSTDICV020

Tot Ion:129 Resp: 198441

Ion Ratio Lower Upper

129 100

127 76.4 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

120000

100000

80000

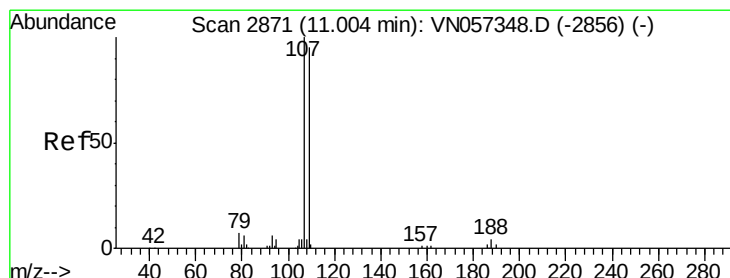
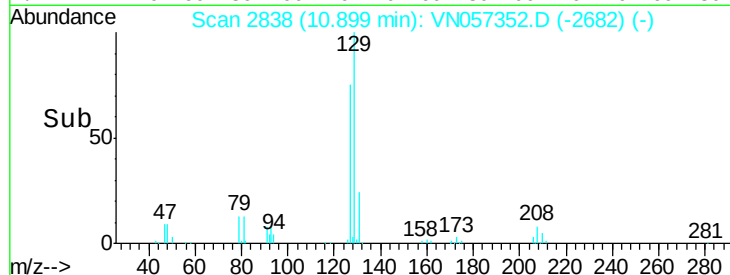
60000

40000

20000

0

Time-->



#54

1,2-Dibromoethane

Concen: 20.093 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN057352.D

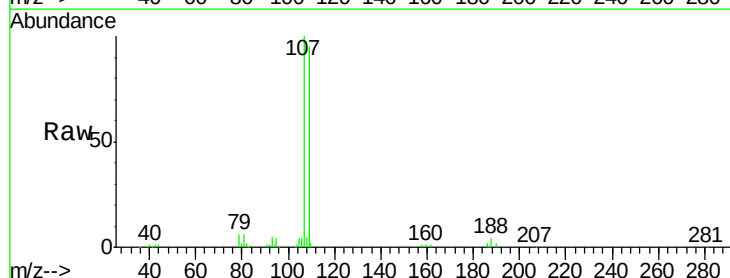
Acq: 16 Aug 2019 13:30

Tgt Ion:107 Resp: 184782

Ion Ratio Lower Upper

107 100

109 94.5 77.9 116.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

11.00

120000

100000

80000

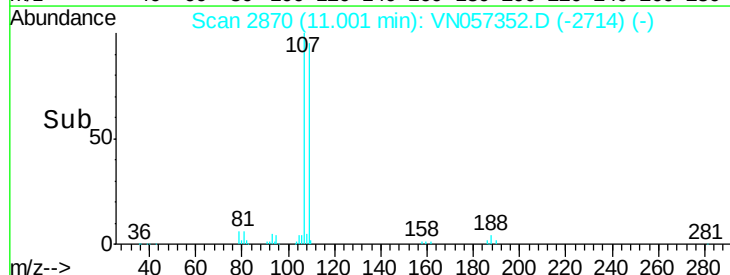
60000

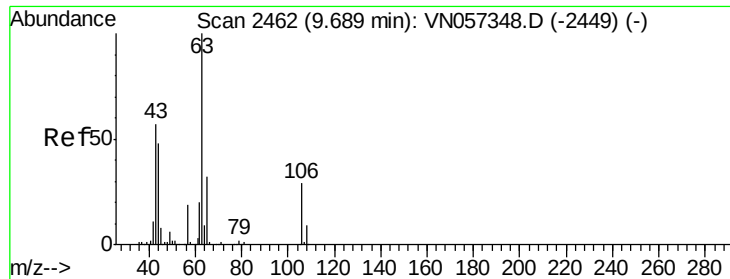
40000

20000

0

Time-->





#55

2-Chloroethyl vinyl ether

Concen: 92.466 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

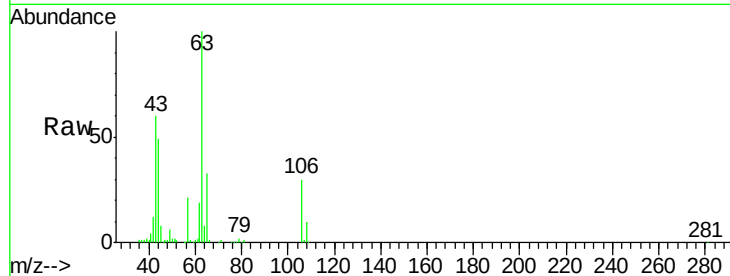
Tot Ion: 63 Resp: 272459

Ion Ratio Lower Upper

63 100

65 31.6 25.2 37.8

106 29.9 21.6 32.4



Abundance Ion 63.00 (62.70 to 63.70): VN057348.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN057348.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN057348.D (-2449) (-)

9.69

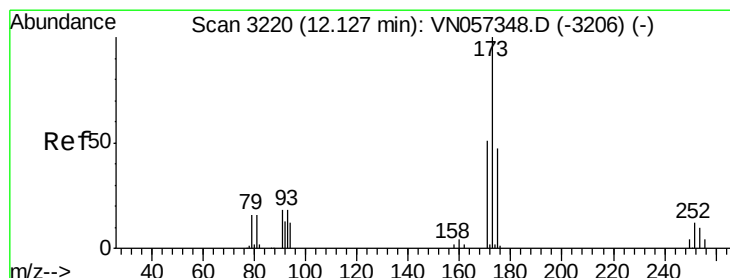
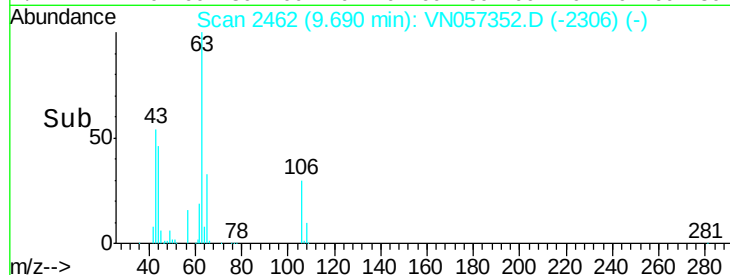
150000

100000

50000

0

Time-->



#56

Bromoform

Concen: 19.122 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

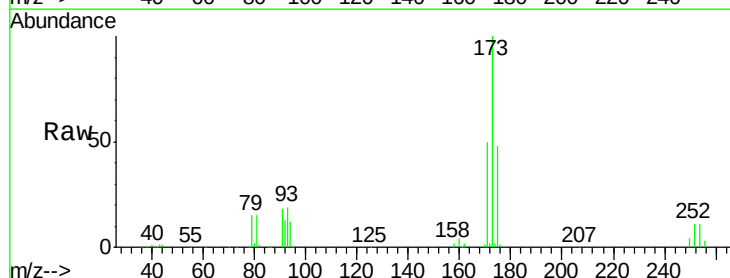
Tgt Ion: 173 Resp: 145060

Ion Ratio Lower Upper

173 100

175 47.8 39.7 59.5

254 10.7 7.8 11.8



Abundance Ion 173.00 (172.70 to 173.70): VN057348.D (-3206) (-)

Ion 175.00 (174.70 to 175.70): VN057348.D (-3206) (-)

Ion 254.00 (253.70 to 254.70): VN057348.D (-3206) (-)

12.13

100000

80000

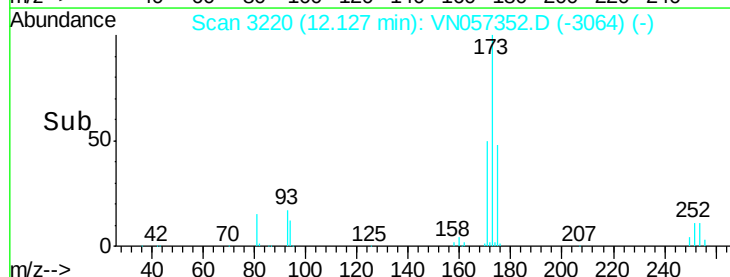
60000

40000

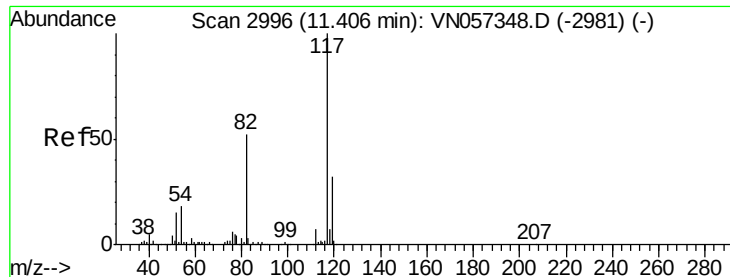
20000

0

Time-->



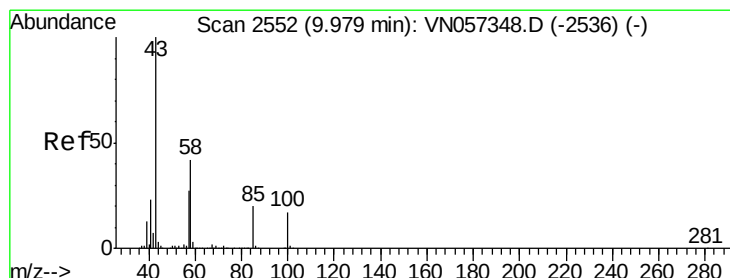
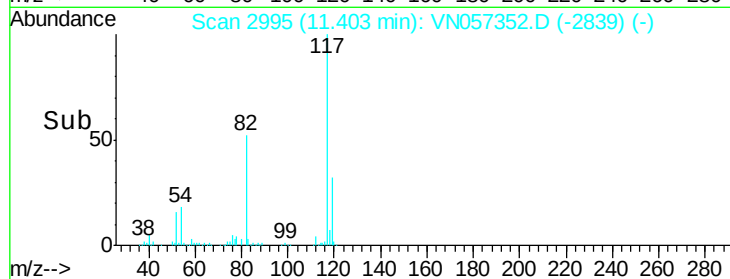
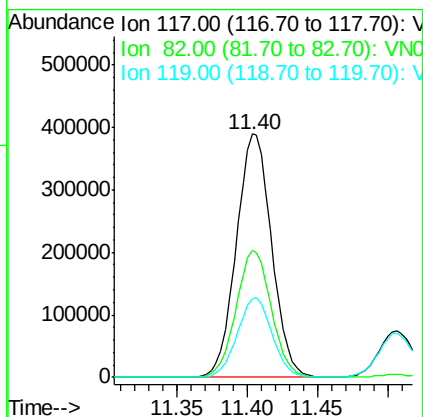
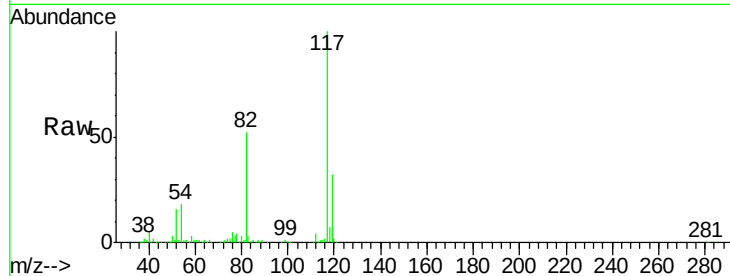




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

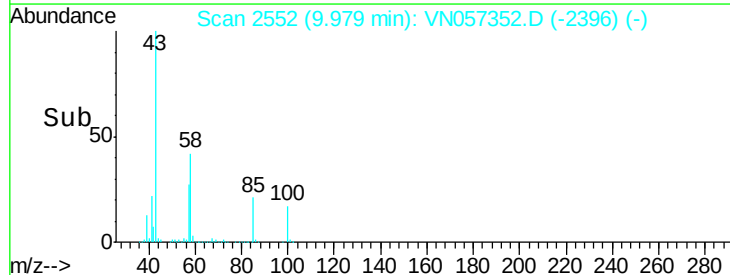
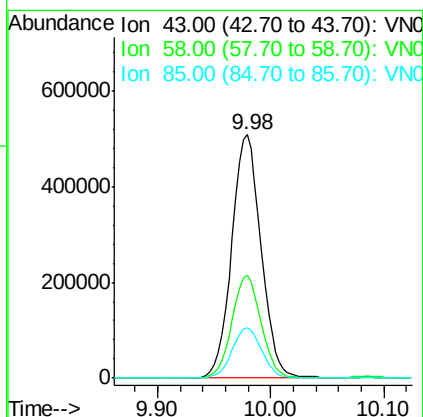
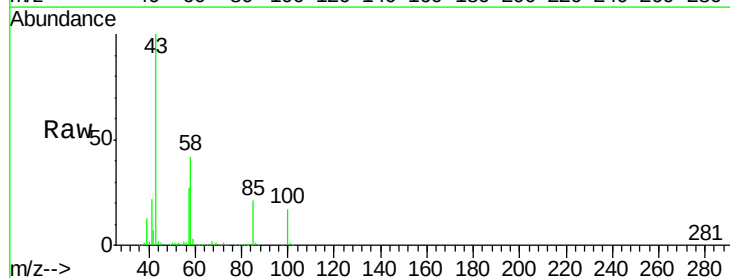
Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDICV020

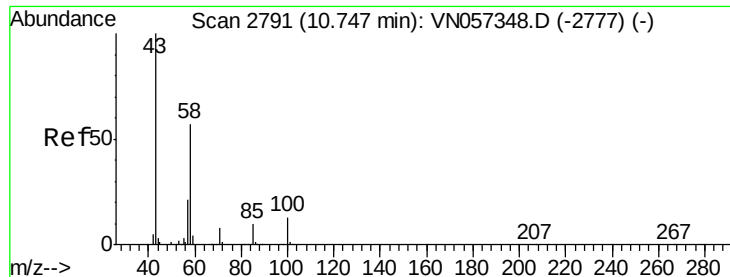
Tot Ion:117 Resp: 682272  
Ion Ratio Lower Upper  
117 100  
82 52.0 43.0 64.4  
119 32.2 26.0 39.0



#58  
4-Methyl-2-Pentanone  
Concen: 103.249 ug/l  
RT: 9.98 min Scan# 2552  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Tgt Ion: 43 Resp: 917660  
Ion Ratio Lower Upper  
43 100  
58 42.0 31.9 47.9  
85 20.9 14.2 21.4

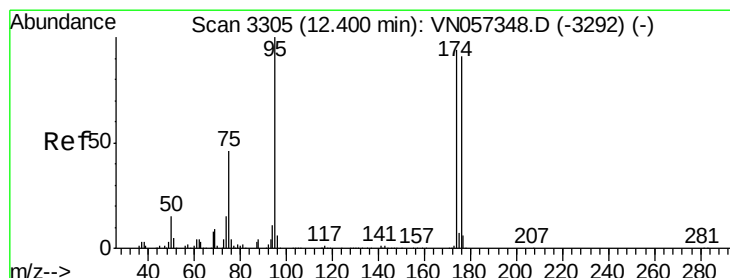
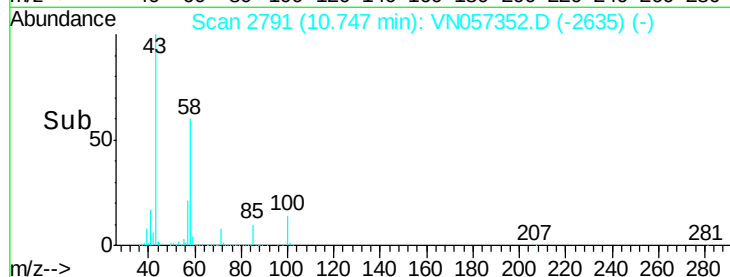
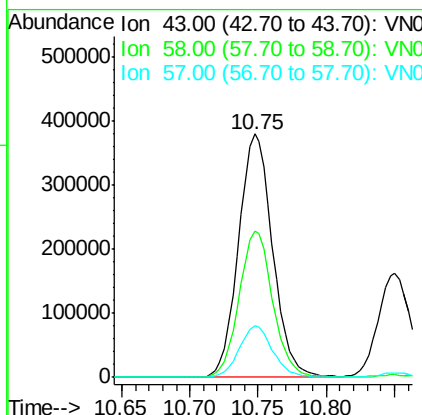
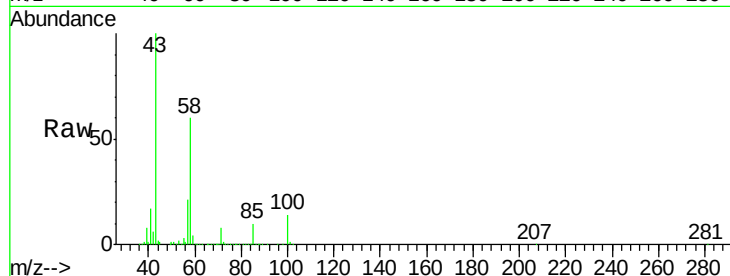




#59  
2-Hexanone  
Concen: 103.289 ug/l  
RT: 10.75 min Scan# 2791  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

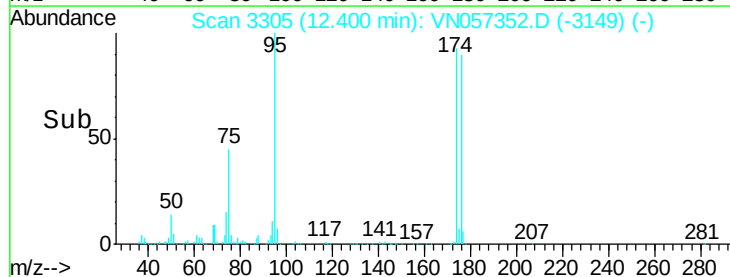
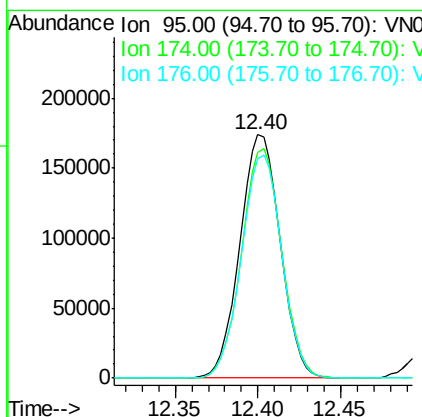
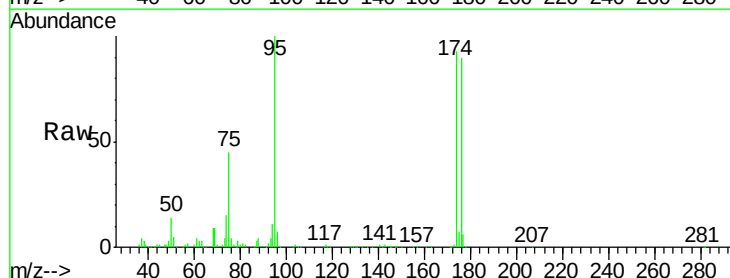
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICV020

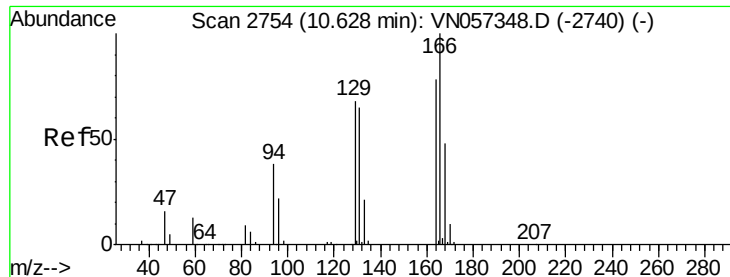
Tot Ion: 43 Resp: 658438  
Ion Ratio Lower Upper  
43 100  
58 59.4 44.4 66.6  
57 20.8 15.2 22.8



#60  
4-Bromofluorobenzene  
Concen: 29.308 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Tgt Ion: 95 Resp: 294445  
Ion Ratio Lower Upper  
95 100  
174 93.6 72.6 108.8  
176 91.6 71.0 106.6





#61

Tetrachloroethene

Concen: 21.319 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

Tot Ion:164 Resp: 213190

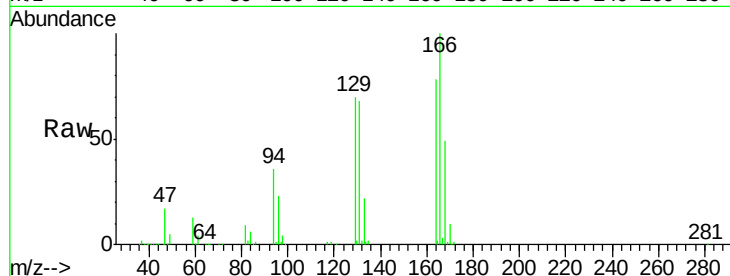
Ion Ratio Lower Upper

164 100

166 127.5 102.3 153.5

129 88.7 72.6 108.8

131 86.6 71.4 107.2

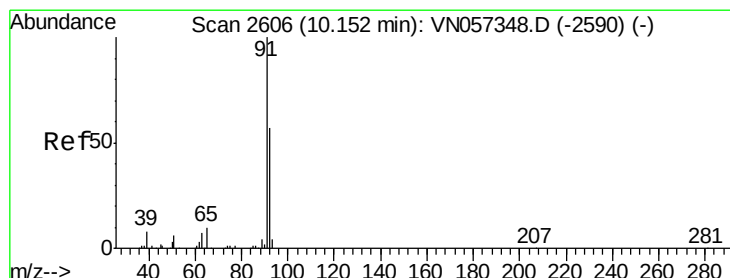
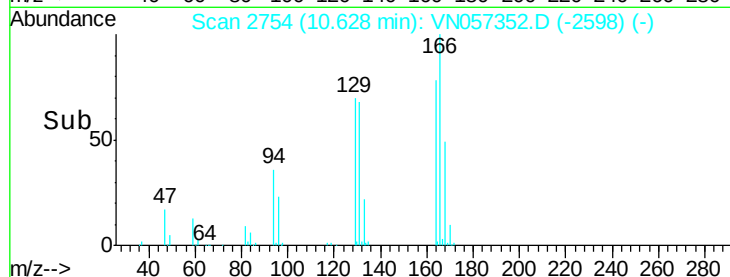
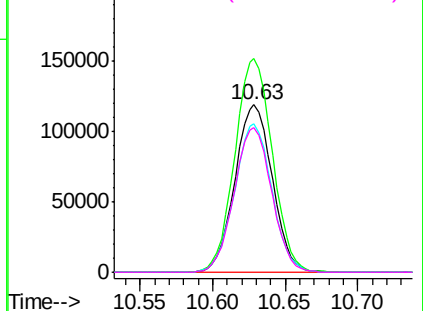


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.700 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN057352.D

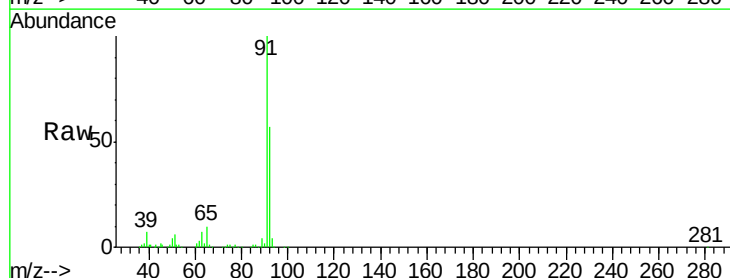
Acq: 16 Aug 2019 13:30

Tgt Ion: 91 Resp: 778963

Ion Ratio Lower Upper

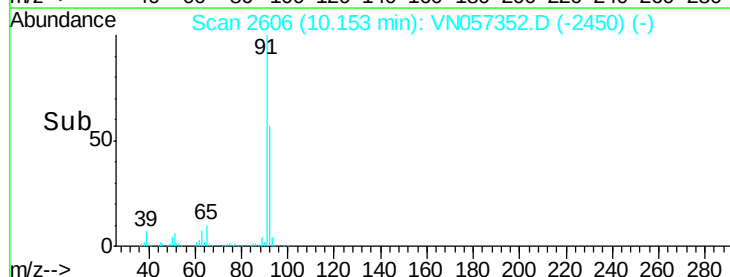
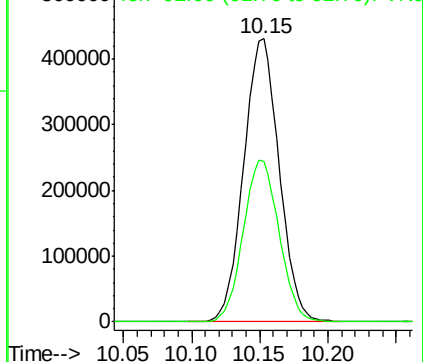
91 100

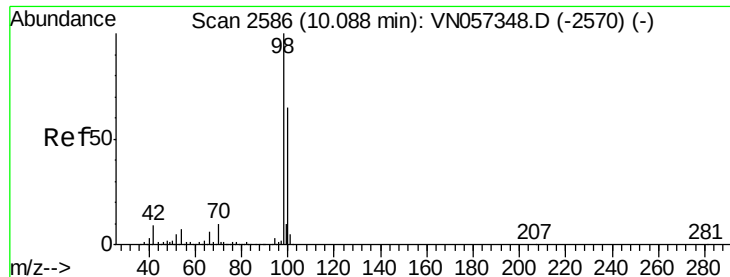
92 57.7 46.7 70.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.459 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

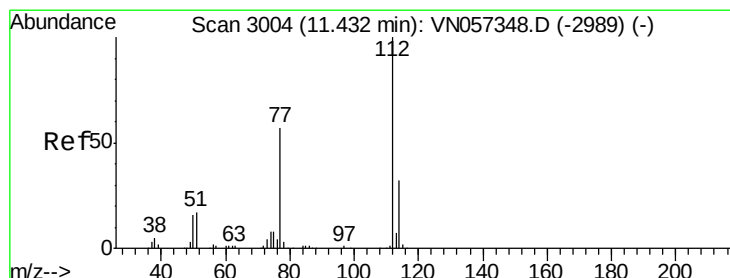
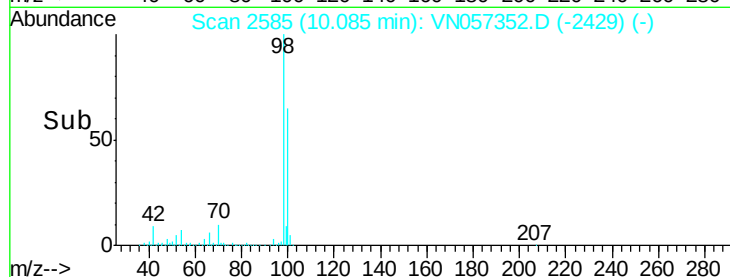
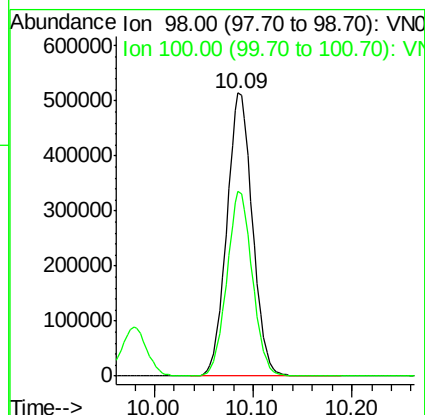
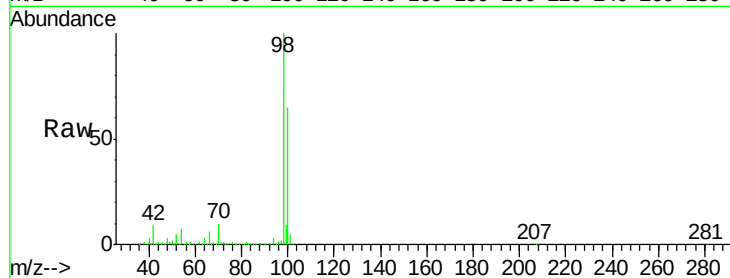
VSTDICV020

Tot Ion: 98 Resp: 937350

Ion Ratio Lower Upper

98 100

100 64.9 51.1 76.7



#64

Chlorobenzene

Concen: 20.485 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN057352.D

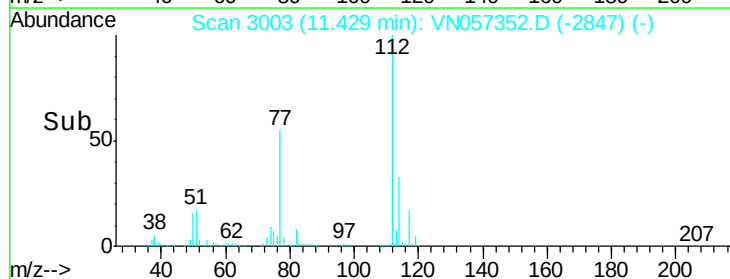
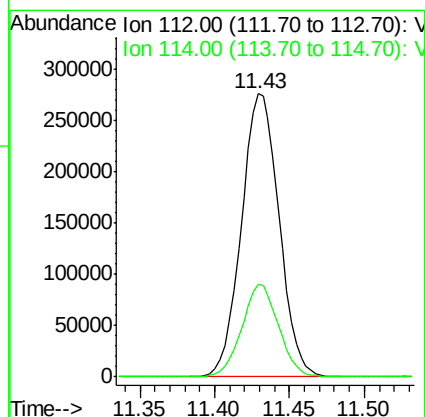
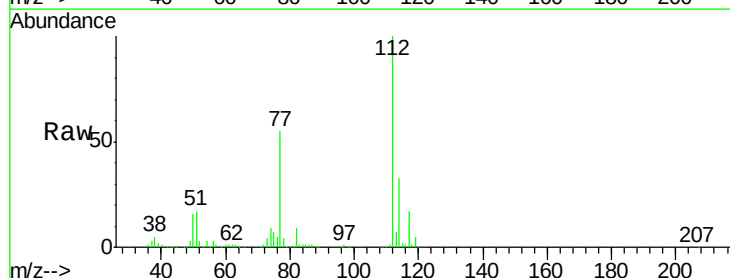
Acq: 16 Aug 2019 13:30

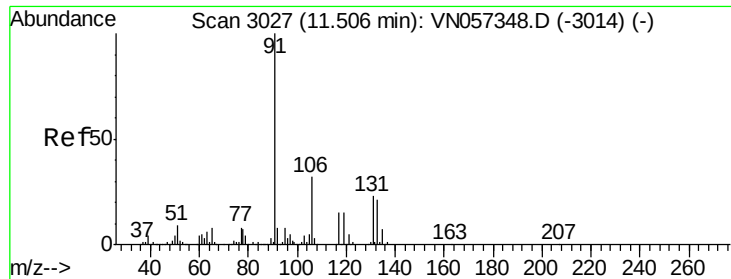
Tgt Ion: 112 Resp: 484273

Ion Ratio Lower Upper

112 100

114 32.7 25.3 37.9





#65

1,1,1,2-Tetrachloroethane

Concen: 20.432 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

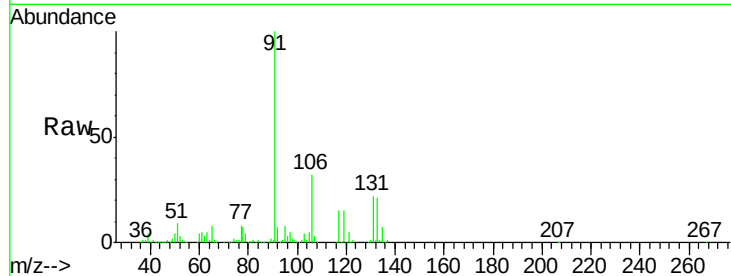
Tot Ion:131 Resp: 187749

Ion Ratio Lower Upper

131 100

133 96.6 0.0 191.4

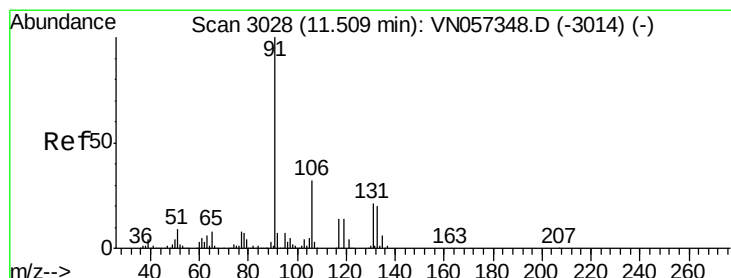
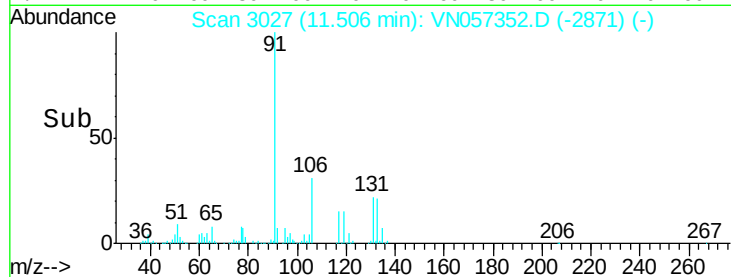
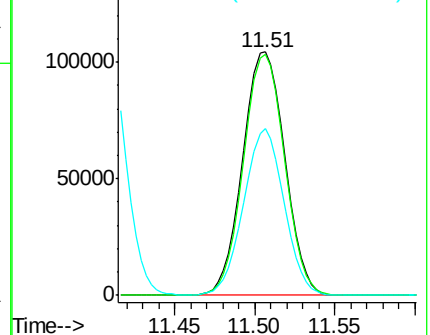
119 65.7 0.0 133.4



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 20.520 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057352.D

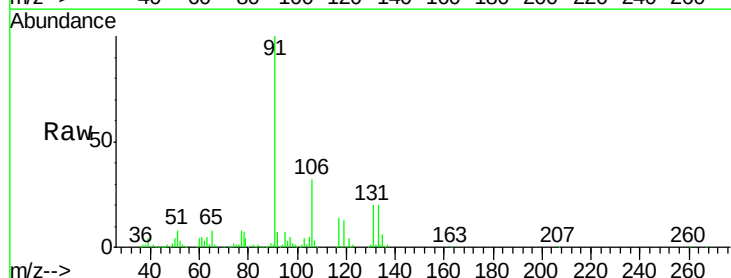
Acq: 16 Aug 2019 13:30

Tgt Ion: 91 Resp: 843663

Ion Ratio Lower Upper

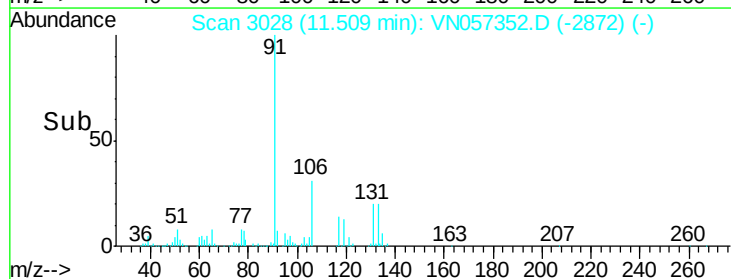
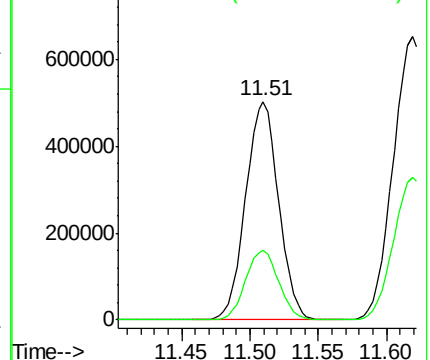
91 100

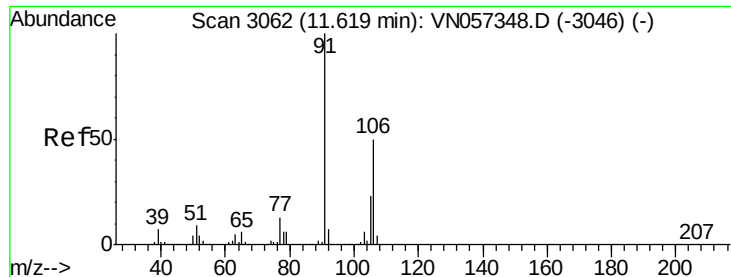
106 31.7 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 41.035 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

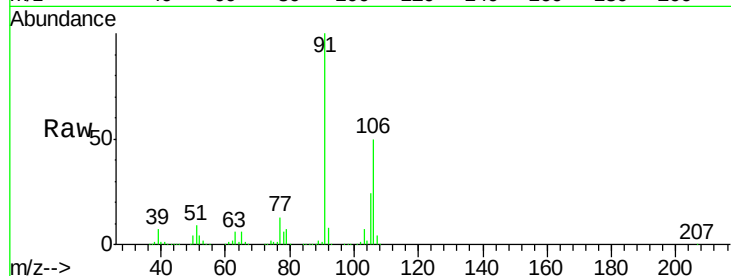
VSTDICV020

Tot Ion:106 Resp: 631444

Ion Ratio Lower Upper

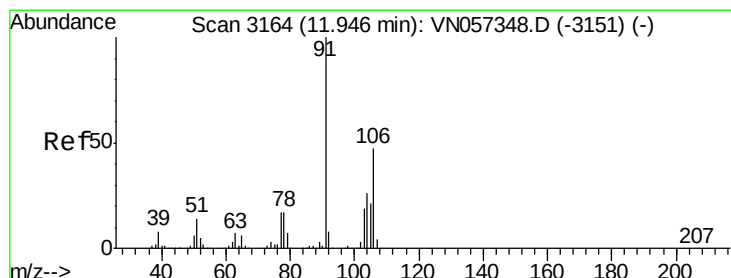
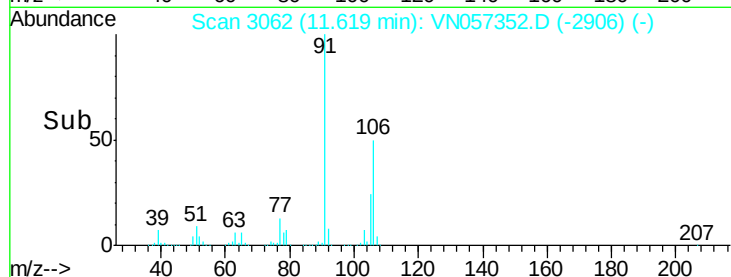
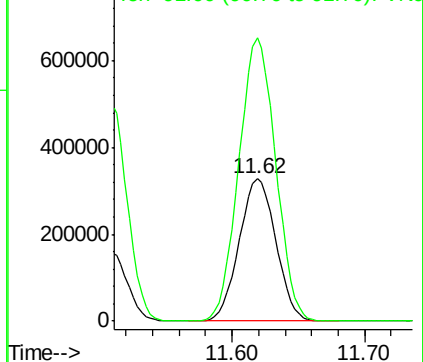
106 100

91 199.7 161.8 242.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 20.440 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN057352.D

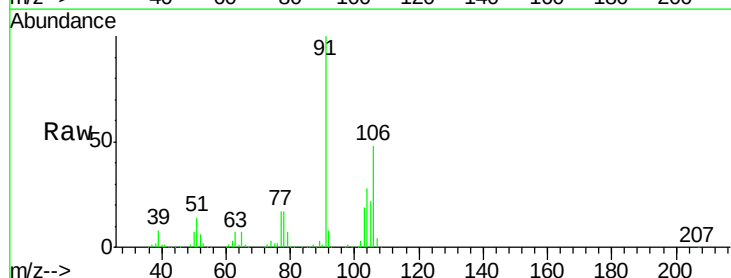
Acq: 16 Aug 2019 13:30

Tgt Ion:106 Resp: 307476

Ion Ratio Lower Upper

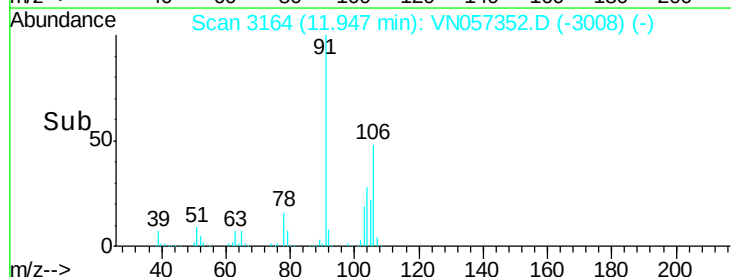
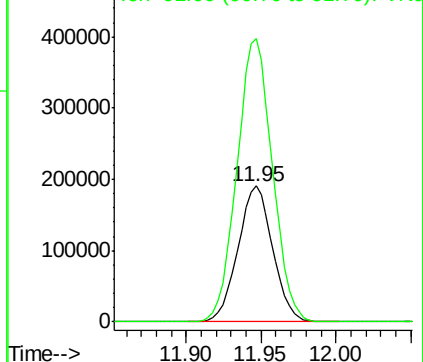
106 100

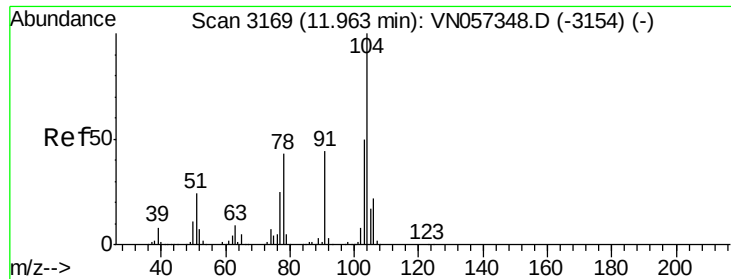
91 213.0 108.1 324.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

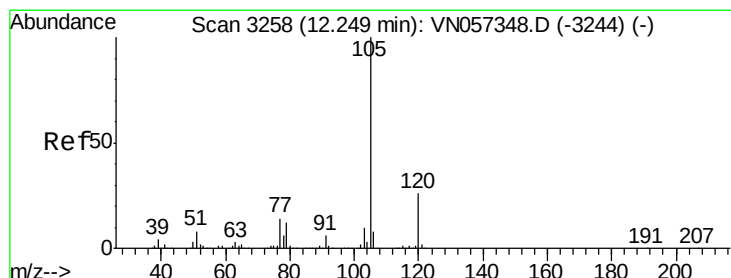
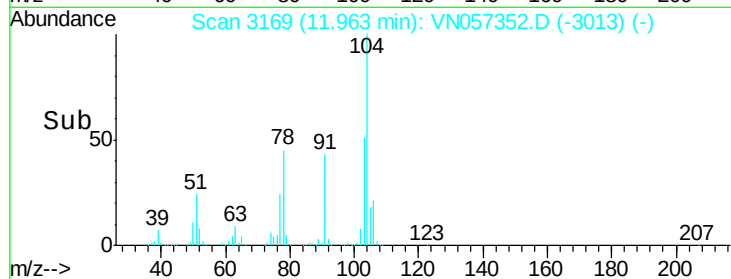
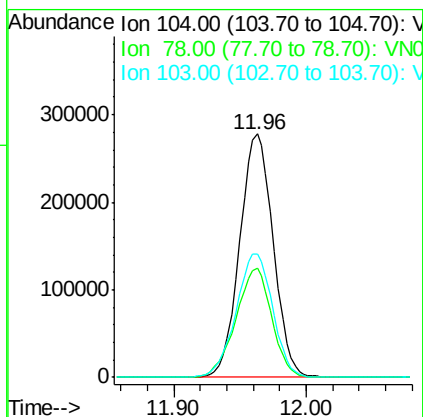
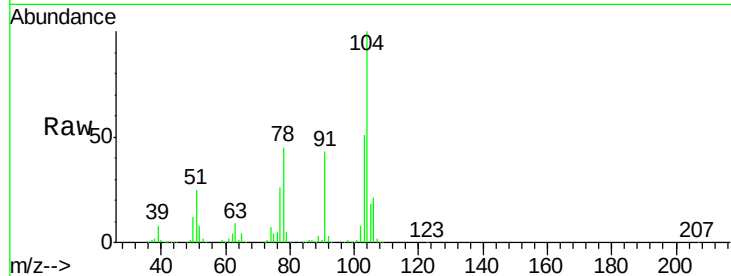




#69  
Stvrene  
Concen: 20.169 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

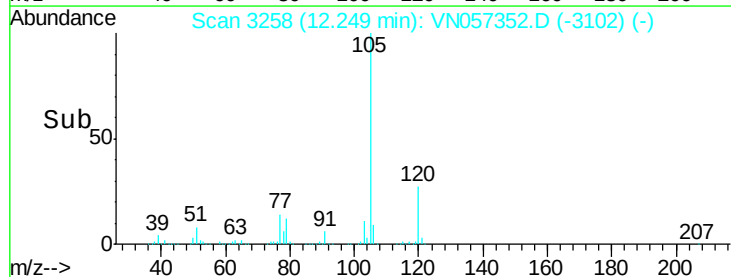
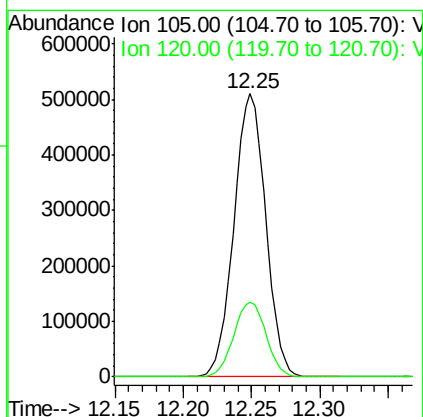
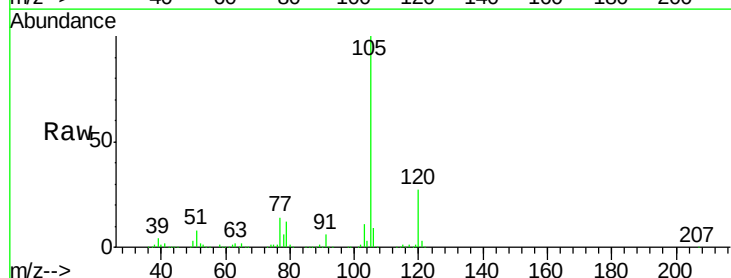
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICV020

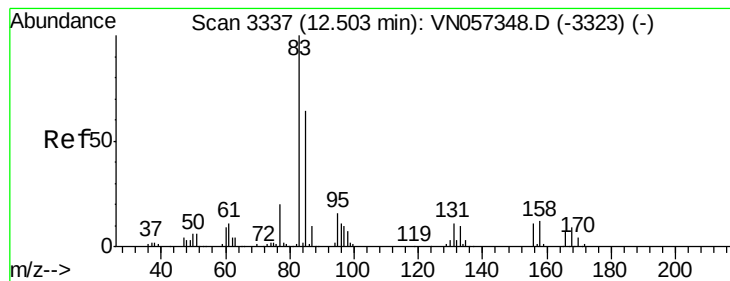
Tot Ion:104 Resp: 487430  
Ion Ratio Lower Upper  
104 100  
78 48.2 38.7 58.1  
103 55.5 45.0 67.4



#70  
Isopropylbenzene  
Concen: 20.458 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Tgt Ion:105 Resp: 825076  
Ion Ratio Lower Upper  
105 100  
120 26.9 18.6 34.5





#71

1,1,2,2-Tetrachloroethane

Concen: 20.803 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

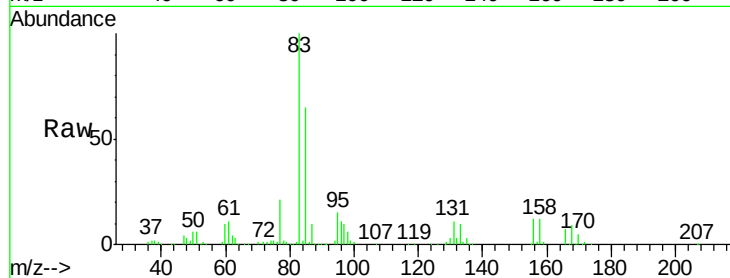
Tot Ion: 83 Resp: 229829

Ion Ratio Lower Upper

83 100

131 11.2 5.1 15.3

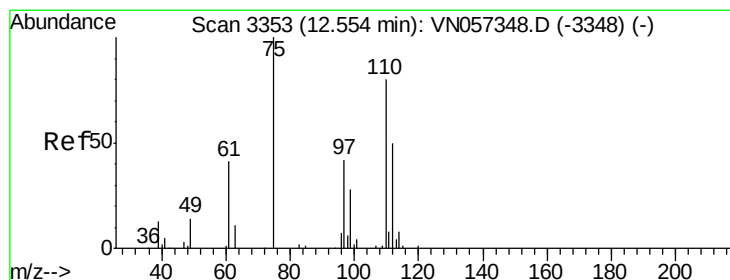
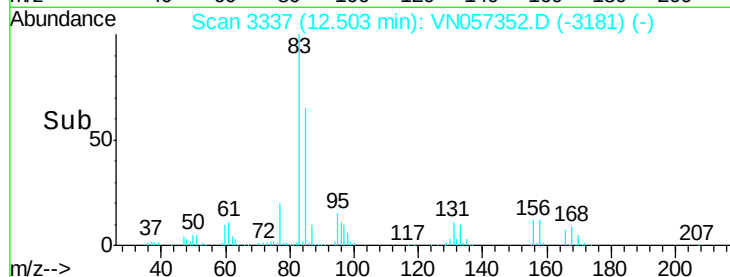
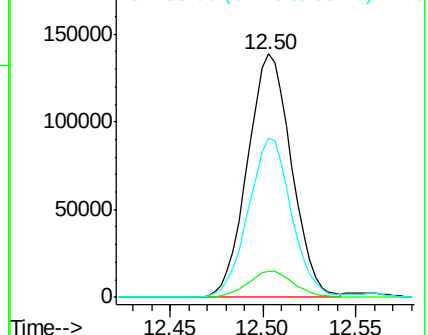
85 64.1 31.9 95.7



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 20.274 ug/l m

RT: 12.55 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VN057352.D

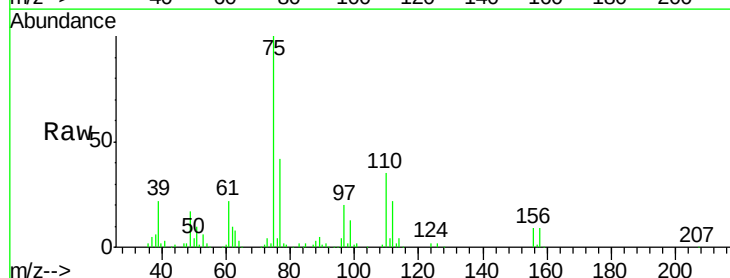
Acq: 16 Aug 2019 13:30

Tgt Ion: 75 Resp: 189019

Ion Ratio Lower Upper

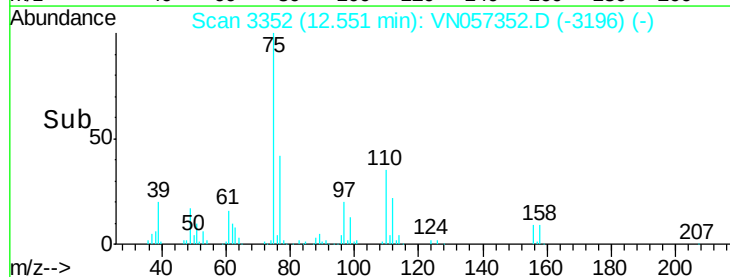
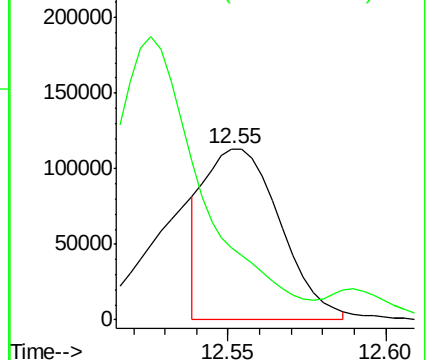
75 100

77 199.6 0.0 352.2

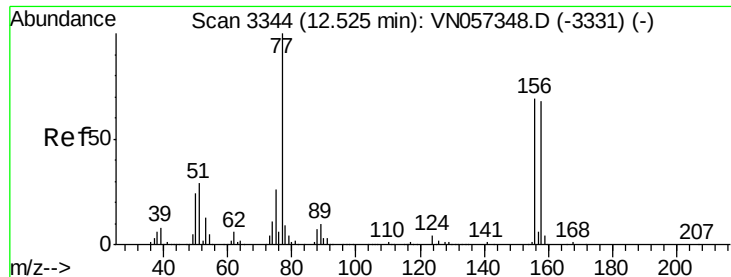


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0







#73

Bromobenzene

Concen: 20.148 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

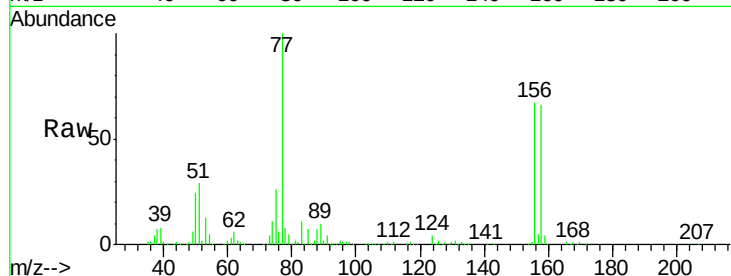
Tot Ion:156 Resp: 215322

Ion Ratio Lower Upper

156 100

77 175.2 0.0 381.8

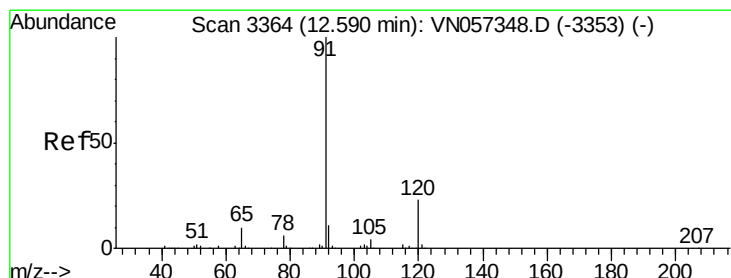
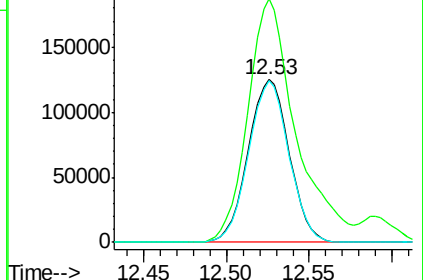
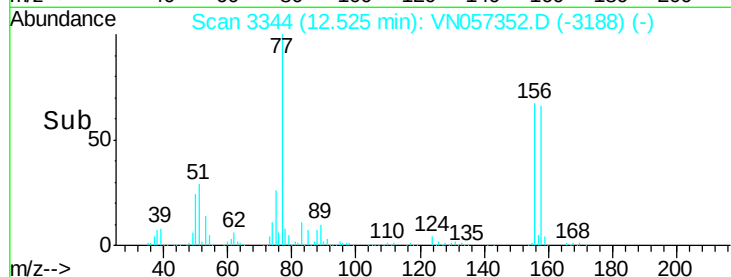
158 97.7 0.0 195.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 19.873 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057352.D

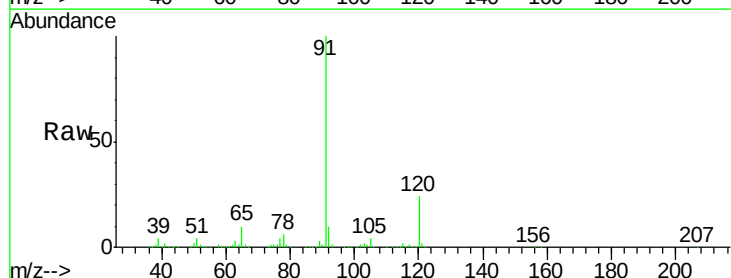
Acq: 16 Aug 2019 13:30

Tgt Ion: 91 Resp: 832519

Ion Ratio Lower Upper

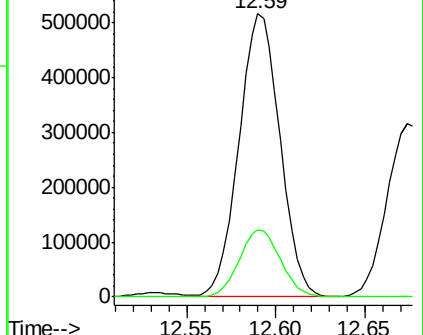
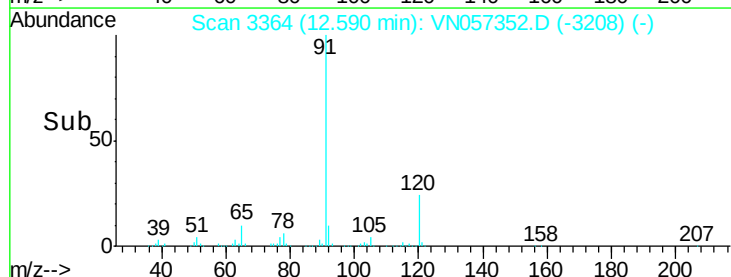
91 100

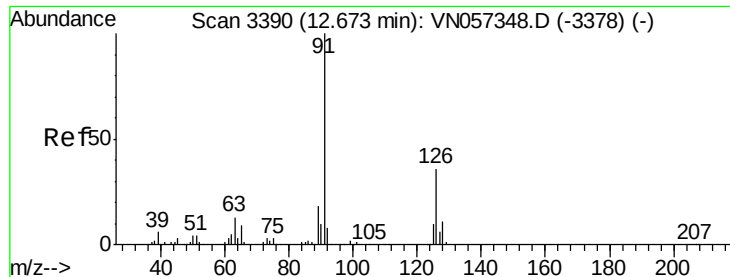
120 23.6 0.0 45.6



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.477 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

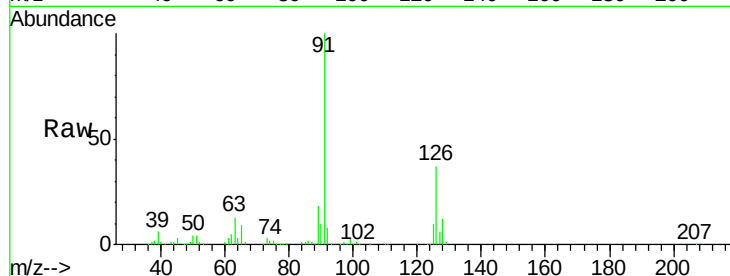
VSTDICV020

Tot Ion: 91 Resp: 532329

Ion Ratio Lower Upper

91 100

126 36.8 0.0 69.8



Abundance Ion 91.00 (90.70 to 91.70): VN057348.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN057348.D (-3378) (-)

12.67

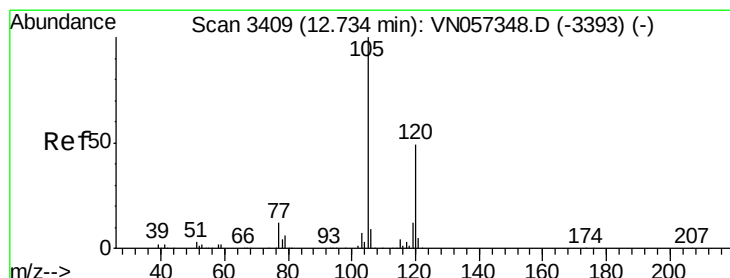
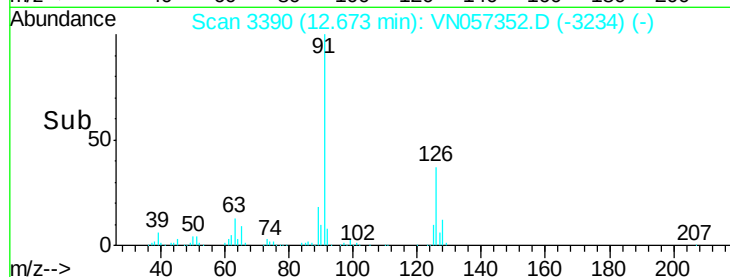
300000

200000

100000

0

Time--> 12.60 12.65 12.70



#76

1,3,5-Trimethylbenzene

Concen: 20.470 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057352.D

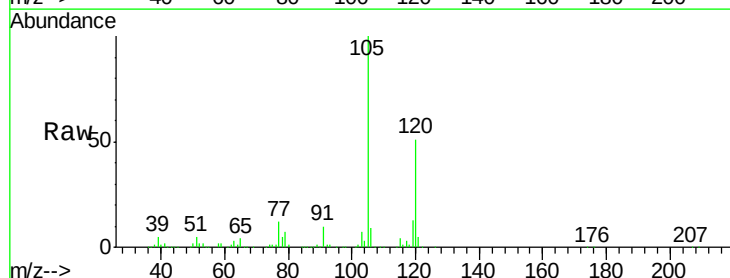
Acq: 16 Aug 2019 13:30

Tgt Ion: 105 Resp: 686620

Ion Ratio Lower Upper

105 100

120 49.8 0.0 97.6



Abundance Ion 105.00 (104.70 to 105.70): VN057348.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN057348.D (-3393) (-)

12.73

500000

400000

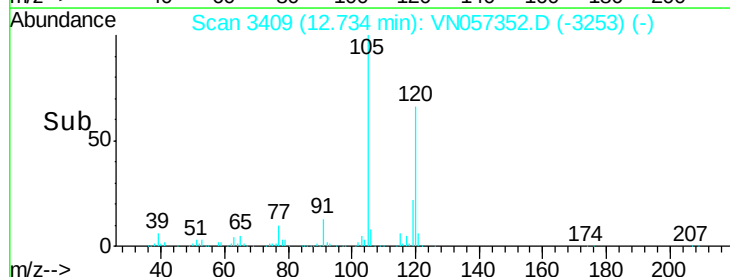
300000

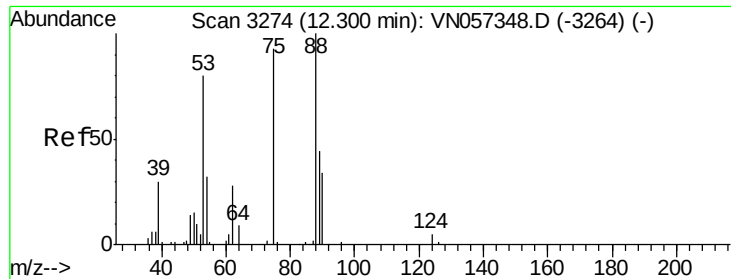
200000

100000

0

Time--> 12.70 12.80





#77

t-1,4-Dichloro-2-butene

Concen: 19.970 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

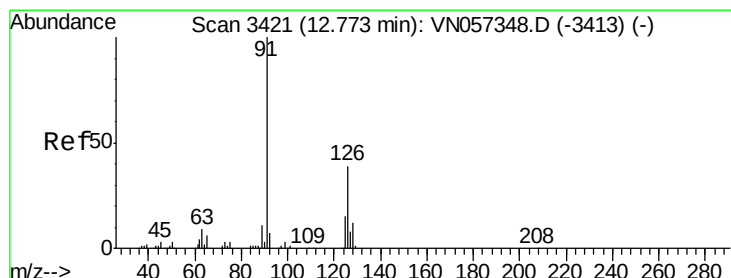
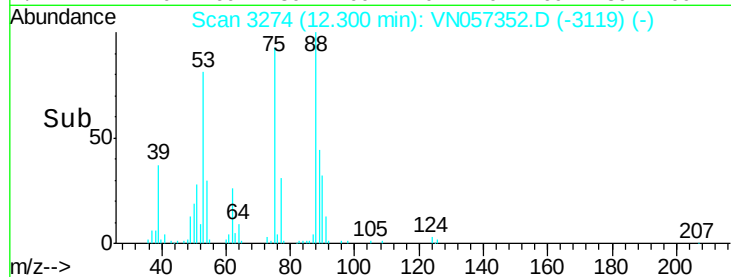
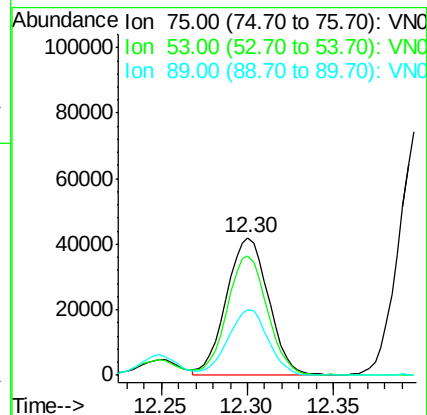
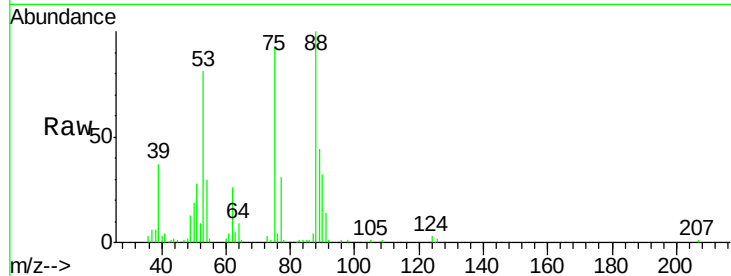
Tot Ion: 75 Resp: 71443

Ion Ratio Lower Upper

75 100

53 87.2 48.6 145.8

89 48.1 21.3 64.0



#78

4-Chlorotoluene

Concen: 20.130 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN057352.D

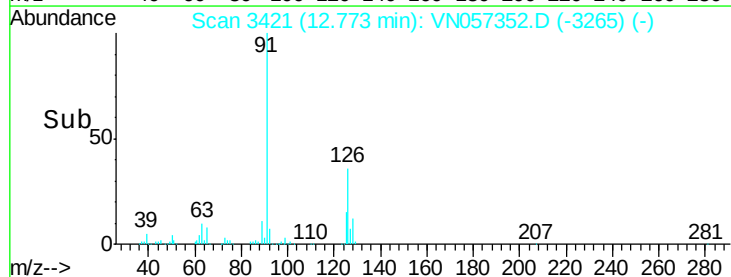
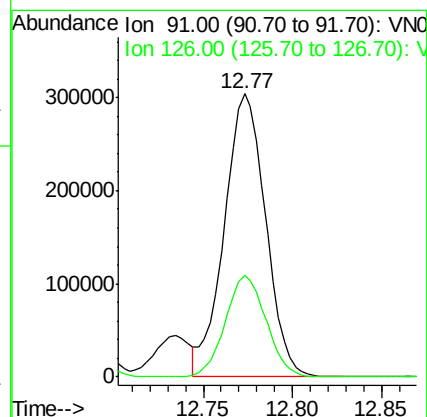
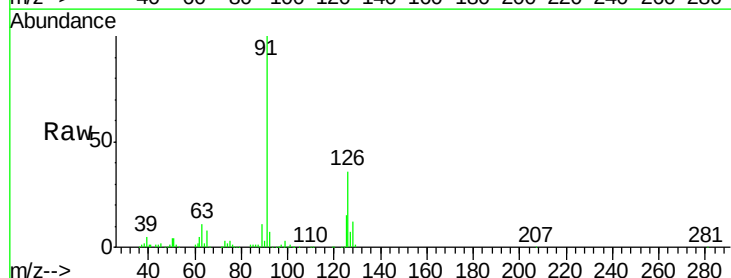
Acq: 16 Aug 2019 13:30

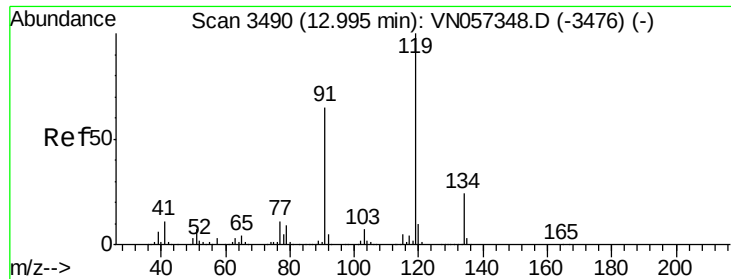
Tgt Ion: 91 Resp: 489623

Ion Ratio Lower Upper

91 100

126 35.5 0.0 69.4

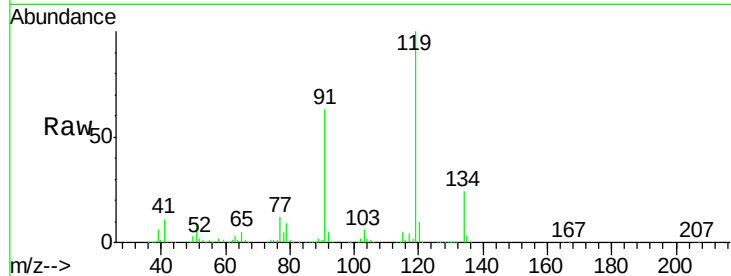




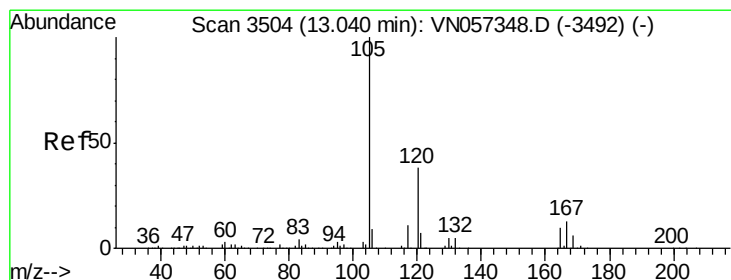
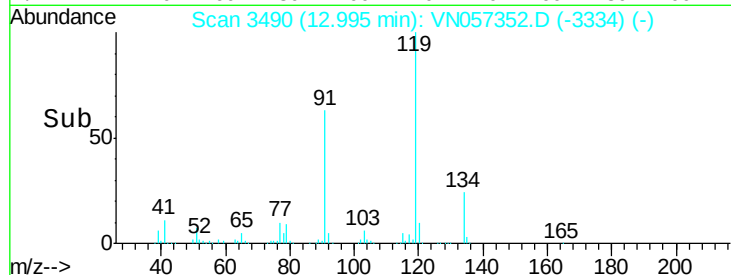
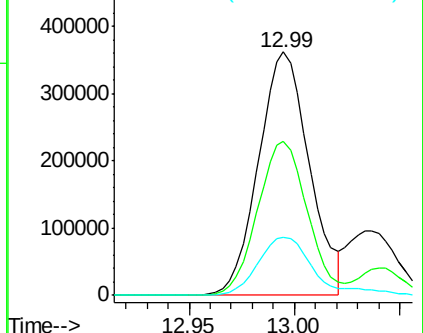
#79  
tert-butylbenzene  
Concen: 20.372 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICV020

Tot Ion:119 Resp: 608919  
Ion Ratio Lower Upper  
119 100  
91 62.1 0.0 125.4  
134 24.2 0.0 48.4

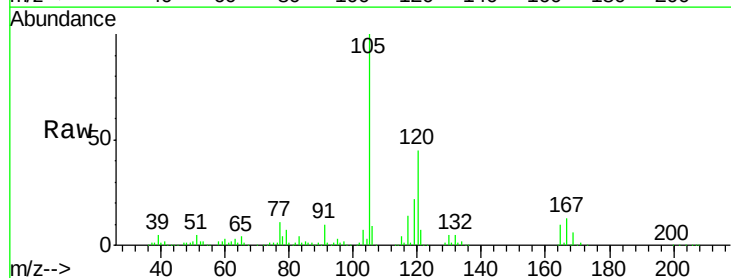


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

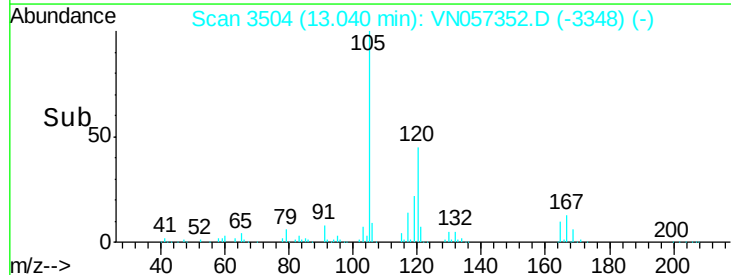
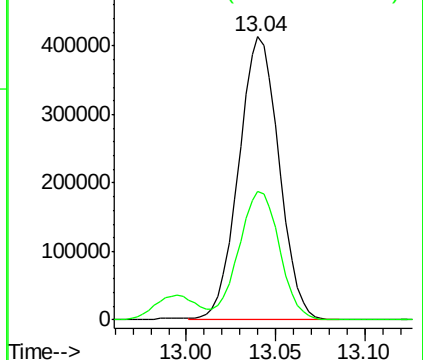


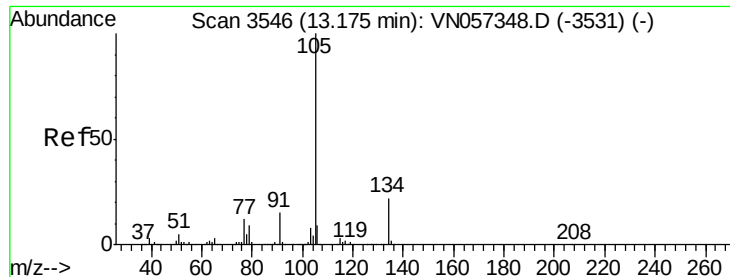
#80  
1,2,4-Trimethylbenzene  
Concen: 20.601 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. 0.00 min  
Lab File: VN057352.D  
Acq: 16 Aug 2019 13:30

Tgt Ion:105 Resp: 651784  
Ion Ratio Lower Upper  
105 100  
120 45.8 0.0 91.2



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 19.848 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampled :

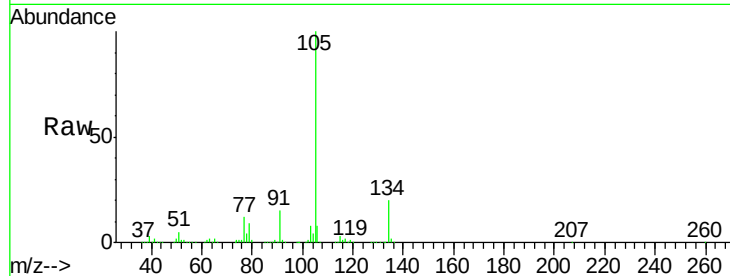
VSTDICV020

Tot Ion:105 Resp: 731311

Ion Ratio Lower Upper

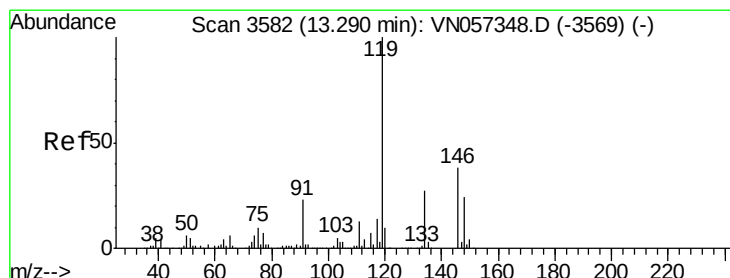
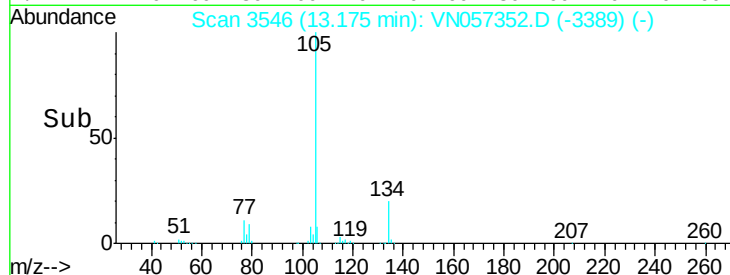
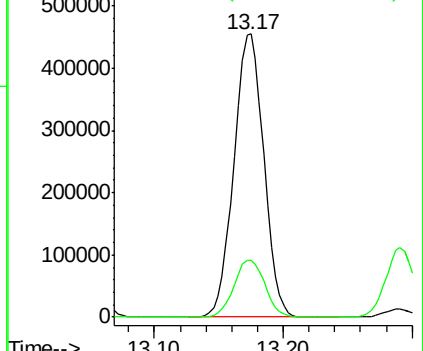
105 100

134 20.8 0.0 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 19.518 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

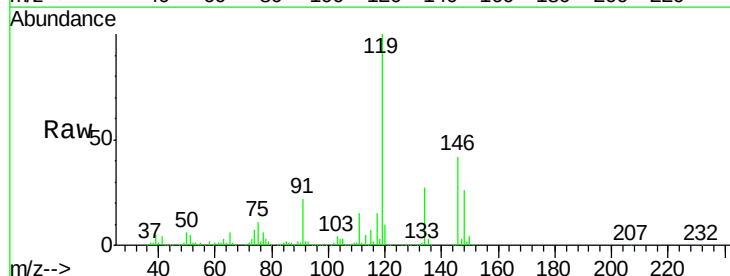
Tgt Ion:119 Resp: 644257

Ion Ratio Lower Upper

119 100

134 26.7 0.0 52.8

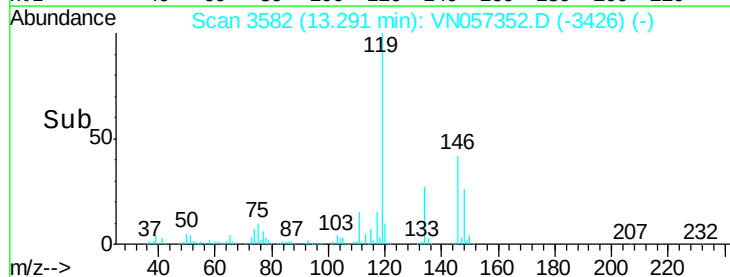
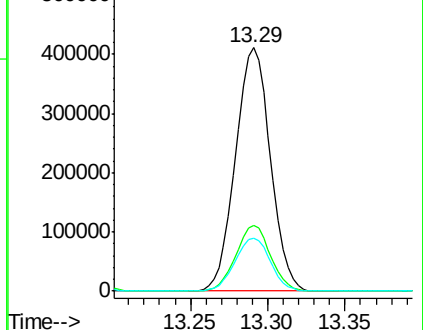
91 22.2 0.0 45.4

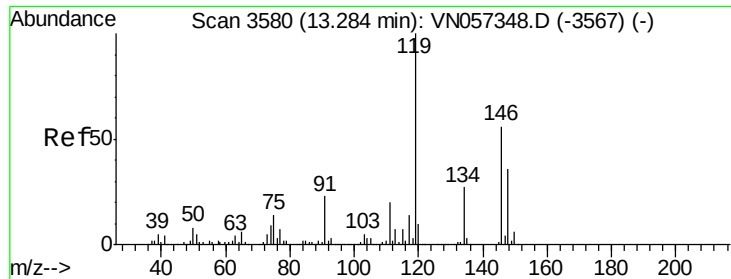


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

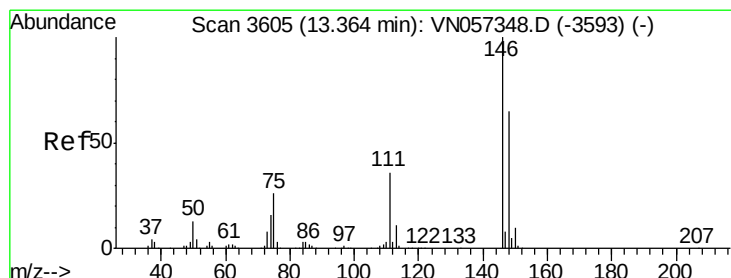
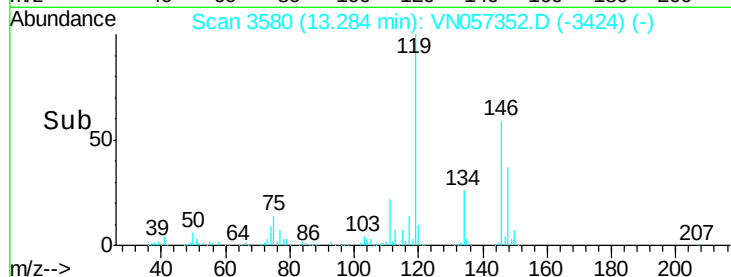
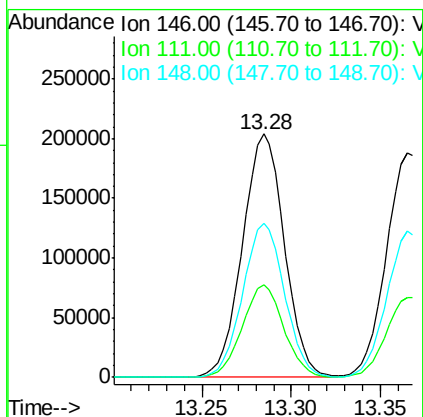
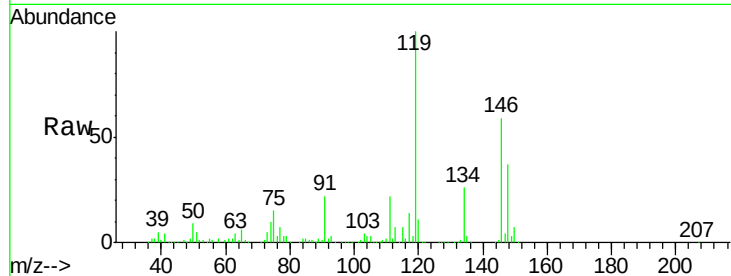




#83  
 1,3-Dichlorobenzene  
 Concen: 21.363 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. 0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

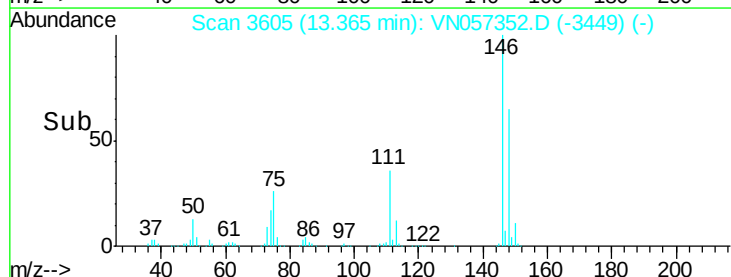
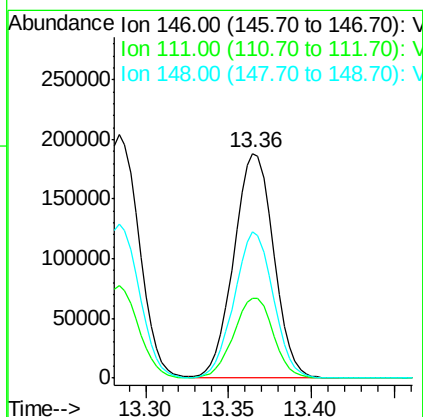
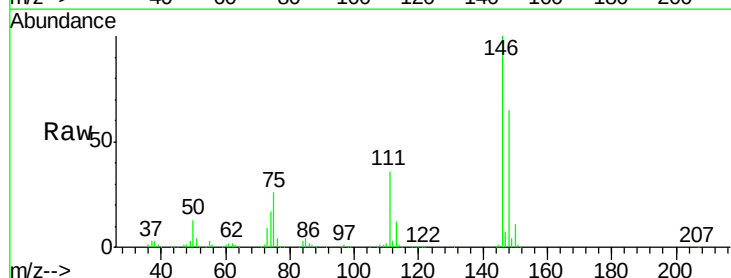
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VSTDICV020

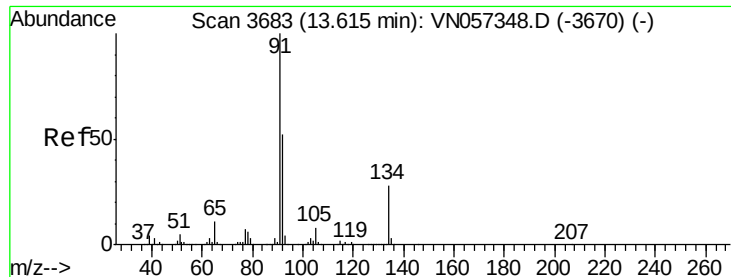
Tot Ion:146 Resp: 334434  
 Ion Ratio Lower Upper  
 146 100  
 111 37.7 18.7 56.1  
 148 63.1 31.8 95.4



#84  
 1,4-Dichlorobenzene  
 Concen: 21.550 ug/l  
 RT: 13.36 min Scan# 3605  
 Delta R.T. 0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

Tgt Ion:146 Resp: 314900  
 Ion Ratio Lower Upper  
 146 100  
 111 35.5 17.8 53.4  
 148 64.2 31.9 95.5





#85

n-Butylbenzene

Concen: 21.028 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

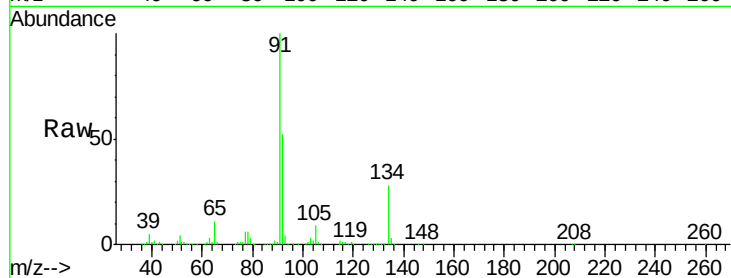
Tot Ion: 91 Resp: 516118

Ion Ratio Lower Upper

91 100

92 52.4 0.0 104.0

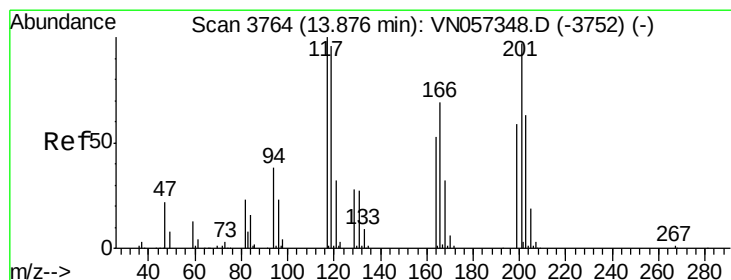
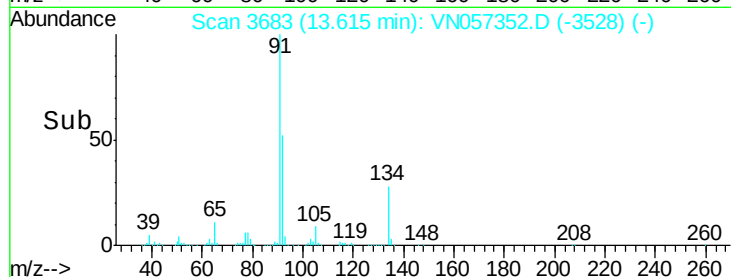
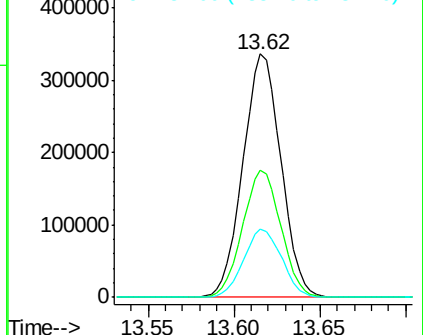
134 27.9 0.0 53.2



Abundance Ion 91.00 (90.70 to 91.70): VN057348.D (-3670) (-)

Ion 92.00 (91.70 to 92.70): VN057348.D (-3670) (-)

Ion 134.00 (133.70 to 134.70): VN057348.D (-3670) (-)



#86

Hexachloroethane

Concen: 19.716 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN057352.D

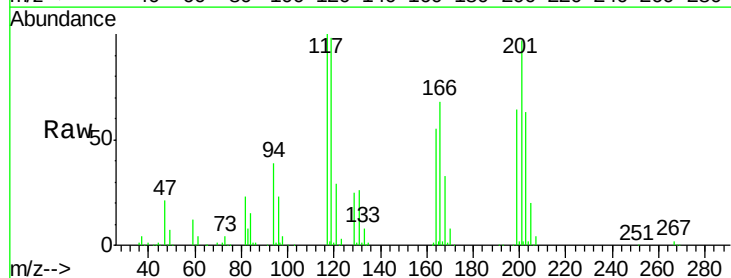
Acq: 16 Aug 2019 13:30

Tgt Ion: 117 Resp: 125258

Ion Ratio Lower Upper

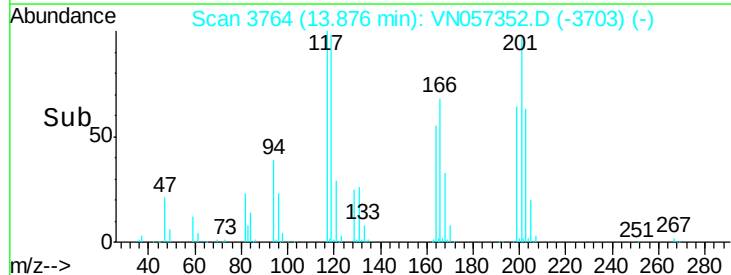
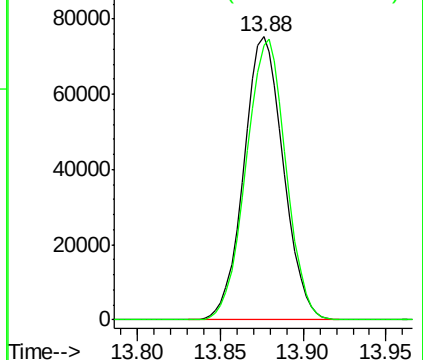
117 100

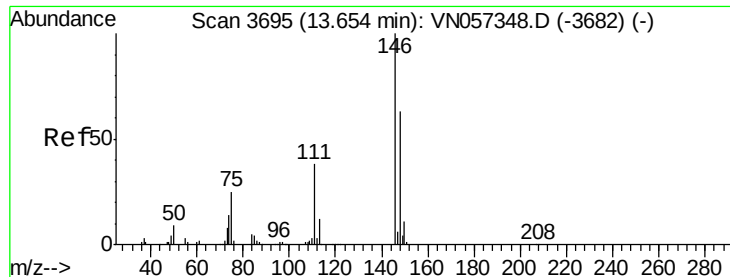
201 99.8 45.6 136.7



Abundance Ion 117.00 (116.70 to 117.70): VN057348.D (-3752) (-)

Ion 201.00 (200.70 to 201.70): VN057348.D (-3752) (-)

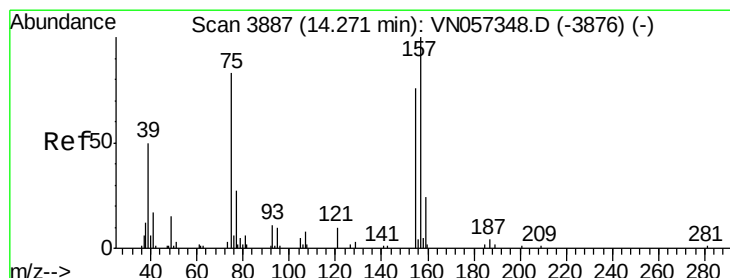
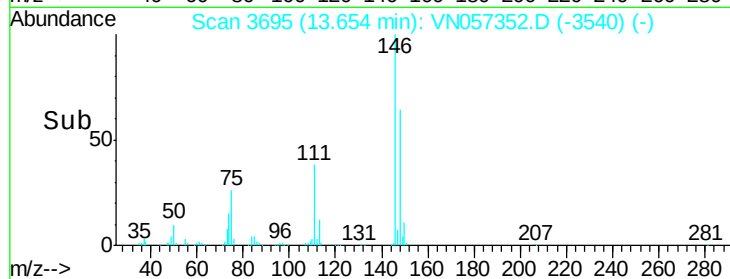
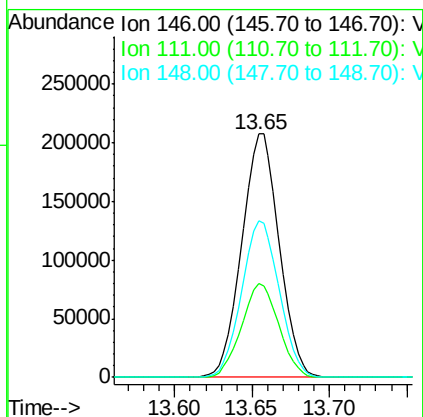
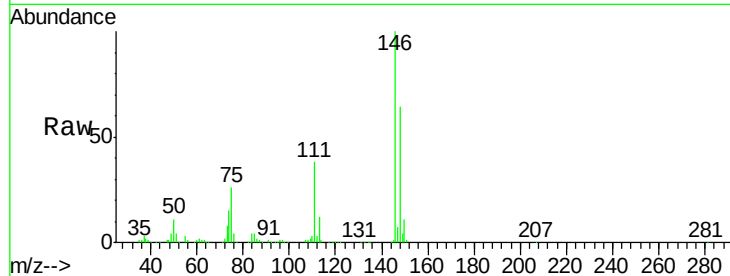




#87  
 1,2-Dichlorobenzene  
 Concen: 23.669 ug/l  
 RT: 13.65 min Scan# 3695  
 Delta R.T. -0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

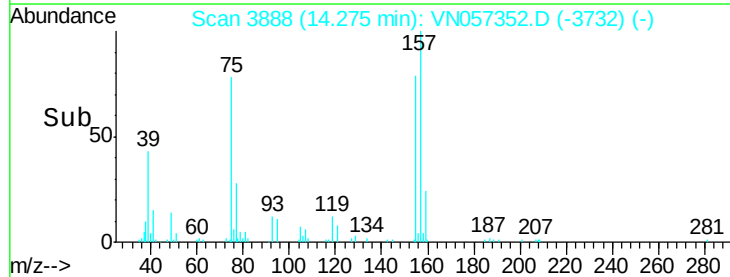
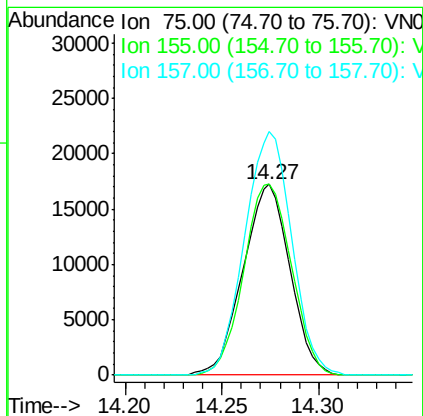
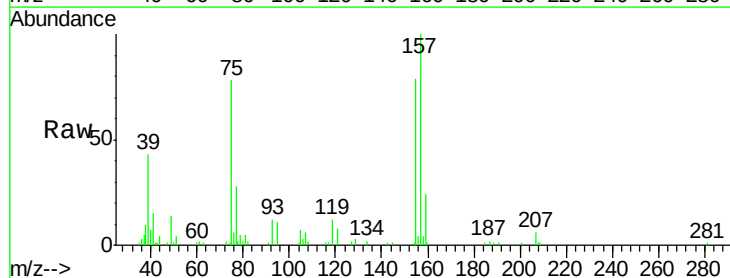
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VSTDICV020

Tot Ion:146 Resp: 350050  
 Ion Ratio Lower Upper  
 146 100  
 111 38.3 19.7 59.0  
 148 64.4 32.7 98.1

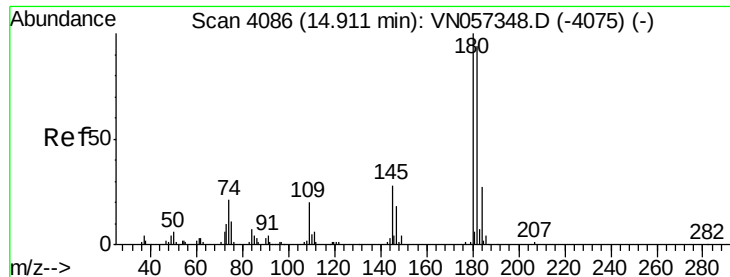


#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 19.655 ug/l  
 RT: 14.27 min Scan# 3888  
 Delta R.T. 0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

Tgt Ion: 75 Resp: 29104  
 Ion Ratio Lower Upper  
 75 100  
 155 101.9 78.6 117.8  
 157 128.2 99.3 148.9



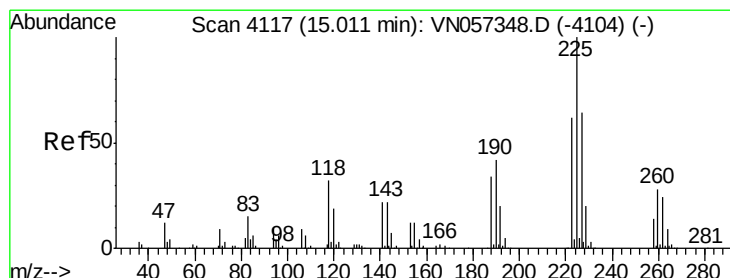
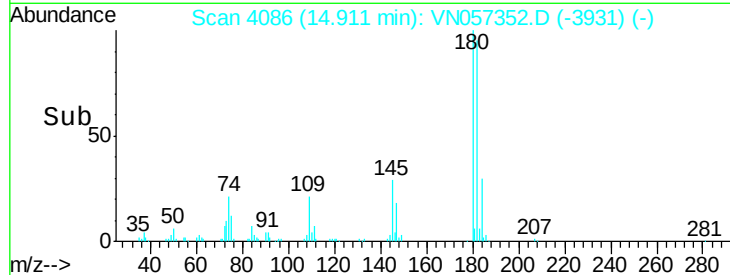
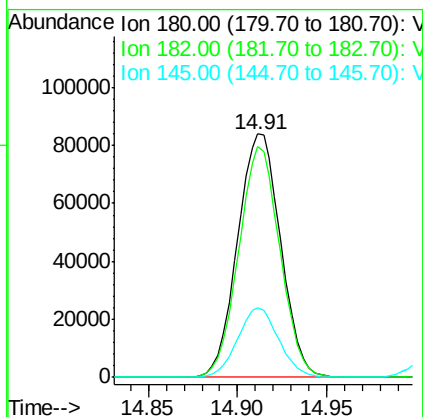
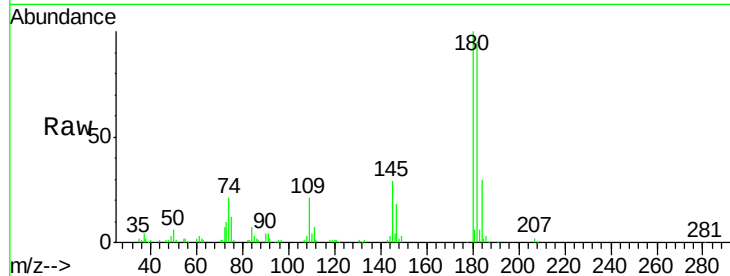




#89  
 1,2,4-Trichlorobenzene  
 Concen: 27.007 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. -0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

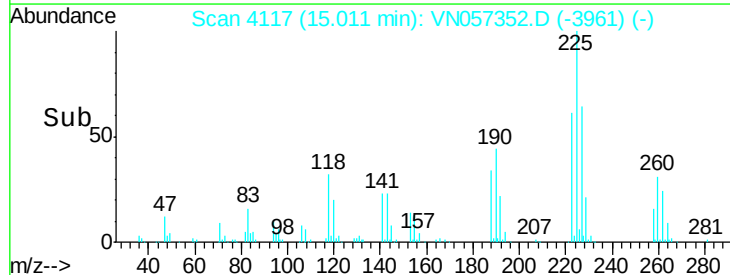
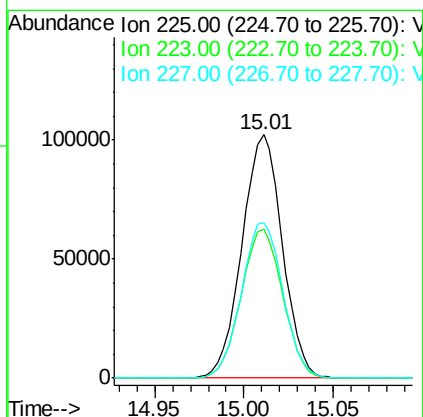
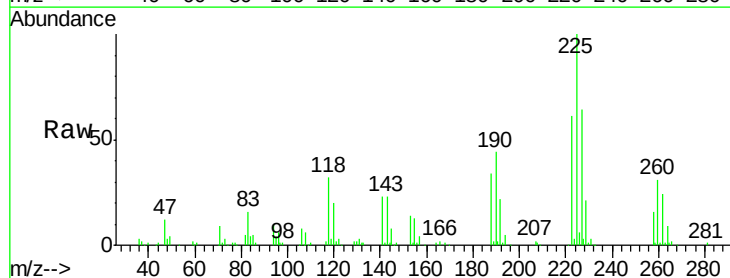
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VSTDICV020

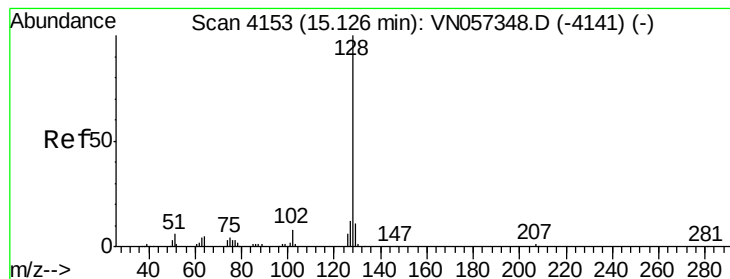
Tot Ion:180 Resp: 141323  
 Ion Ratio Lower Upper  
 180 100  
 182 91.0 78.2 117.4  
 145 27.5 23.2 34.8



#90  
 Hexachlorobutadiene  
 Concen: 24.222 ug/l  
 RT: 15.01 min Scan# 4117  
 Delta R.T. 0.00 min  
 Lab File: VN057352.D  
 Acq: 16 Aug 2019 13:30

Tgt Ion:225 Resp: 161751  
 Ion Ratio Lower Upper  
 225 100  
 223 63.0 0.0 124.6  
 227 65.6 0.0 128.6





#91

Naphthalene

Concen: 20.624 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICV020

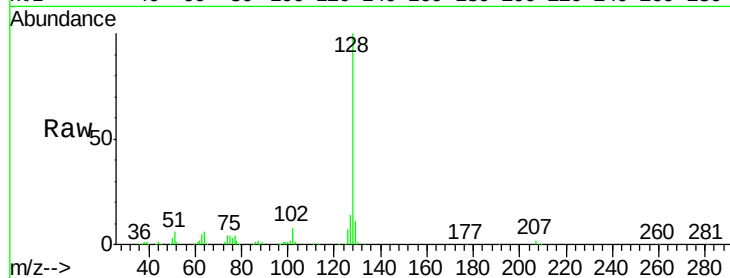
Tot Ion:128 Resp: 233254

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

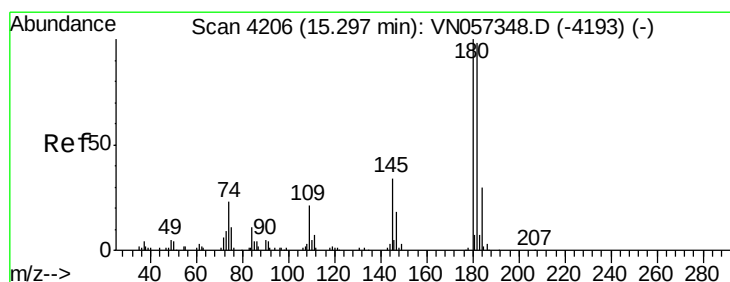
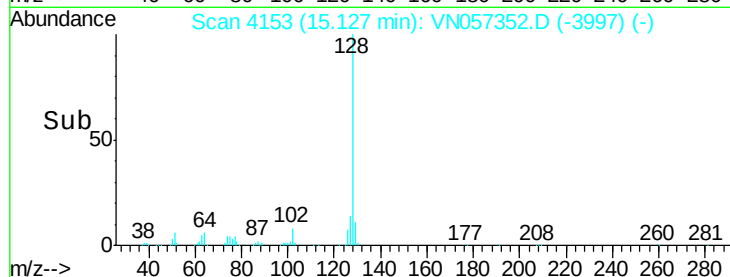
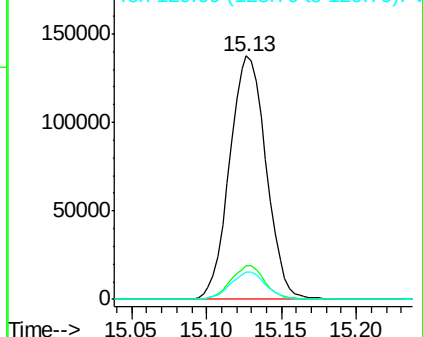
129 10.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 27.012 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. 0.00 min

Lab File: VN057352.D

Acq: 16 Aug 2019 13:30

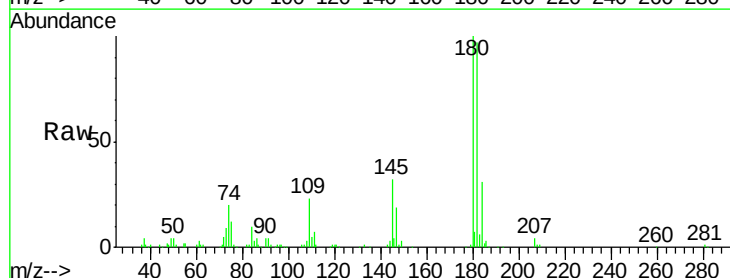
Tgt Ion:180 Resp: 134019

Ion Ratio Lower Upper

180 100

182 95.6 0.0 192.4

145 30.0 0.0 60.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

