

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061422\  
 Data File : VX029465.D  
 Acq On : 14 Jun 2022 15:20  
 Operator : JC/MD  
 Sample : N3248-11  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EXYY2

Quant Time: Jun 15 05:45:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML061322WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jun 15 05:41:21 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.769   | 114   | 369712   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055  | 117   | 332429   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024  | 152   | 162693   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.367   | 65    | 116467   | 40.687   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 81.380%  |
| 7) Chloroethane-d5            | 1.666   | 69    | 88934    | 49.993   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 99.980%  |
| 11) 1,1-Dichloroethene-d2     | 2.306   | 63    | 168338   | 32.640   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 65.280%  |
| 21) 2-Butanone-d5             | 4.458   | 46    | 181592   | 83.669   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 83.670%  |
| 24) Chloroform-d              | 5.062   | 84    | 223190   | 40.837   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 81.680%  |
| 26) 1,2-Dichloroethane-d4     | 5.958   | 65    | 145134   | 41.073   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 82.140%  |
| 32) Benzene-d6                | 5.976   | 84    | 464109   | 44.696   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 89.400%  |
| 36) 1,2-Dichloropropane-d6    | 7.312   | 67    | 136199   | 44.783   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 89.560%  |
| 41) Toluene-d8                | 8.653   | 98    | 420476   | 42.952   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 85.900%  |
| 43) trans-1,3-Dichloroprop... | 8.951   | 79    | 58946    | 39.306   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 78.620%  |
| 47) 2-Hexanone-d5             | 9.384   | 63    | 141485   | 86.011   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 86.010%  |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195  | 84    | 191479   | 42.937   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 85.880%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 145471   | 43.008   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 86.020%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.374   | 62    | 27069    | 8.406    | ug/L   | 89       |
| 8) Chloroethane               | 1.685   | 64    | 247263   | 149.743  | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.319   | 96    | 10951    | 4.368    | ug/L # | 1        |
| 13) Acetone                   | 2.386   | 43    | 18948    | 13.099   | ug/L   | 91       |
| 17) trans-1,2-Dichloroethene  | 3.093   | 96    | 2965     | 1.104    | ug/L   | 92       |
| 19) 1,1-Dichloroethane        | 3.611   | 63    | 493032   | 103.967  | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.489   | 96    | 444450   | 146.470  | ug/L   | 98       |
| 22) 2-Butanone                | 4.574   | 43    | 9129     | 4.192    | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 5.391   | 97    | 165833   | 35.969   | ug/L   | 98       |
| 34) Trichloroethene           | 7.129   | 95    | 25988    | 6.783    | ug/L   | 97       |
| 35) Methylcyclohexane         | 7.385   | 83    | 2672     | 0.552    | ug/L   | 91       |
| 39) cis-1,3-Dichloropropene   | 8.330   | 75    | 4248     | 1.003    | ug/L # | 73       |
| 42) Toluene                   | 8.720   | 91    | 33340    | 2.814    | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 8.951   | 75    | 2837     | 0.714    | ug/L   | 84       |
| 46) Tetrachloroethene         | 9.275   | 164   | 41568    | 18.901   | ug/L   | 93       |
| 49) Dibromochloromethane      | 9.275   | 129   | 41984    | 14.385   | ug/L # | 11       |
| 52) Ethylbenzene              | 10.195  | 91    | 41405    | 3.194    | ug/L   | 99       |
| 53) m,p-Xylene                | 10.305  | 106   | 5182     | 1.018    | ug/L   | 95       |
| 54) o-Xylene                  | 10.646  | 106   | 25969    | 5.174    | ug/L   | 90       |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EXYY2

Quant Time: Jun 15 05:45:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML061322WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jun 15 05:41:21 2022  
 Response via : Initial Calibration

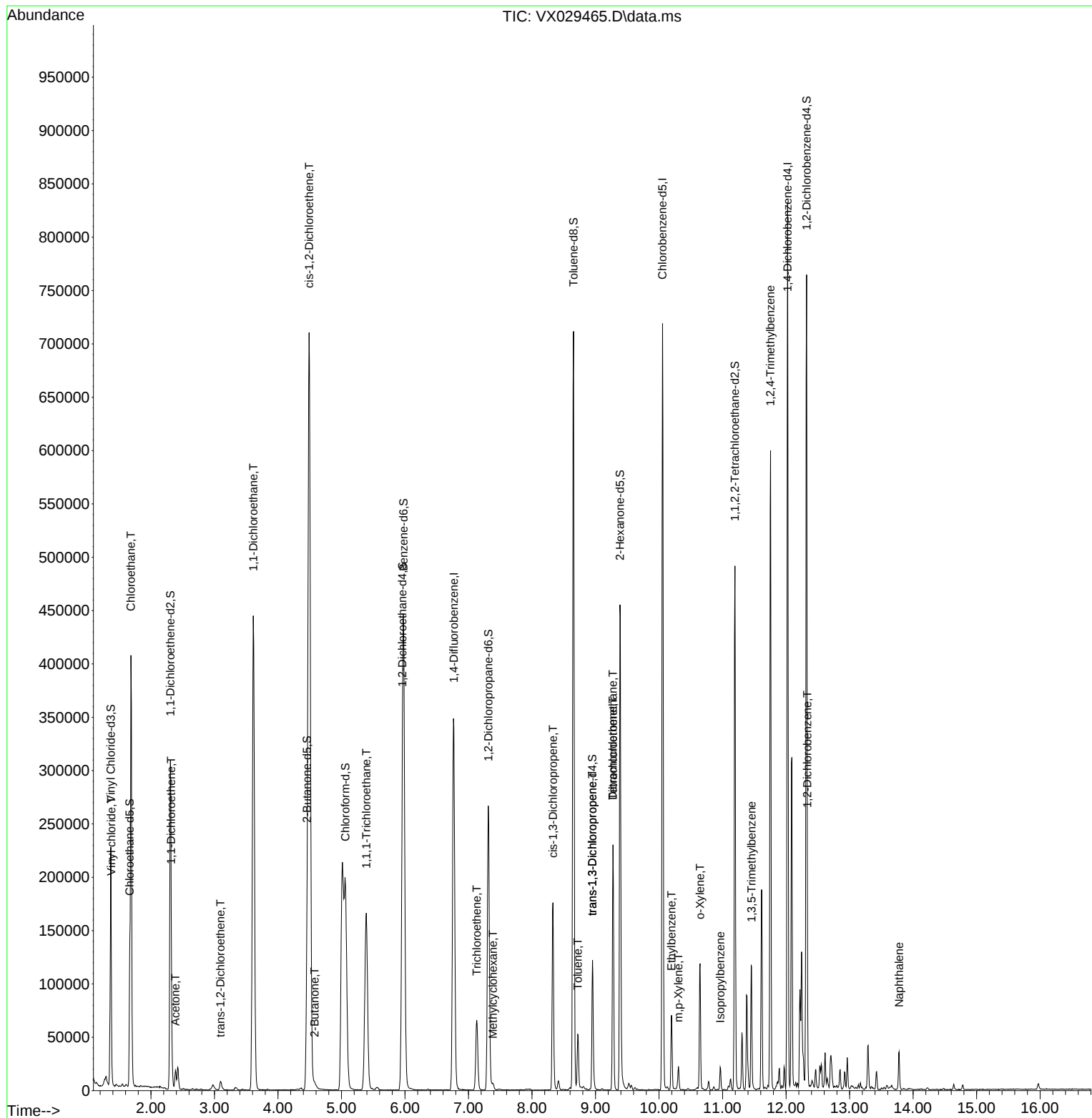
| Compound                   | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|--------|------|----------|--------|--------|----------|
| 60) Isopropylbenzene       | 10.963 | 105  | 11999    | 0.944  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene | 11.457 | 105  | 54837    | 5.053  | ug/L   | 94       |
| 63) 1,2,4-Trimethylbenzene | 11.756 | 105  | 260857   | 24.208 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene    | 12.335 | 146  | 4511     | 0.850  | ug/L # | 86       |
| 71) Naphthalene            | 13.780 | 128  | 22086    | 1.848  | ug/L   | 99       |

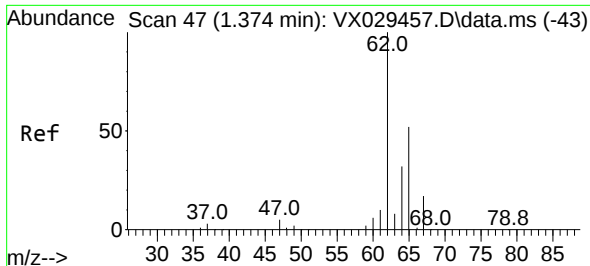
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 15 05:41:21 2022  
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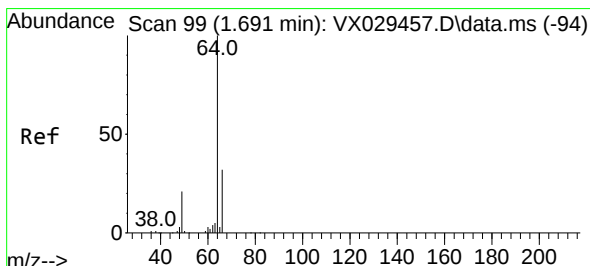
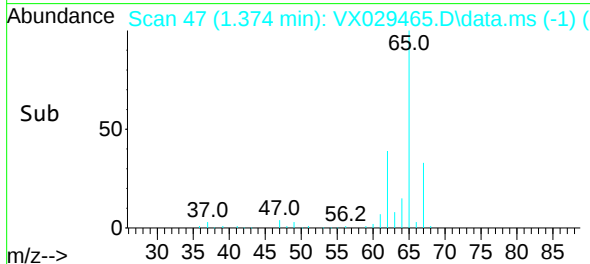
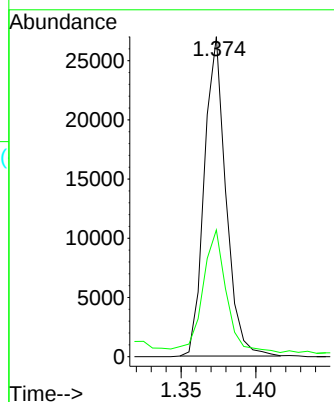
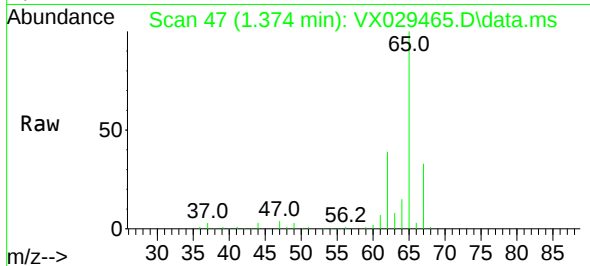




#5  
 Vinyl chloride  
 Concen: 8.406 ug/L  
 RT: 1.374 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VX029465.D  
 Acq: 14 Jun 2022 15:20

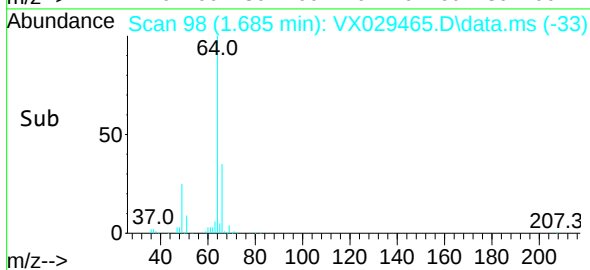
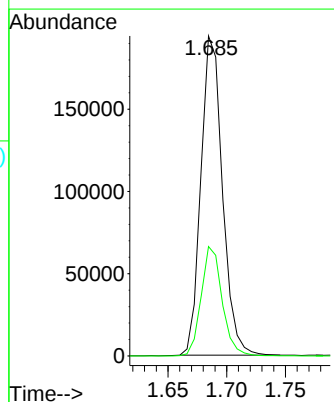
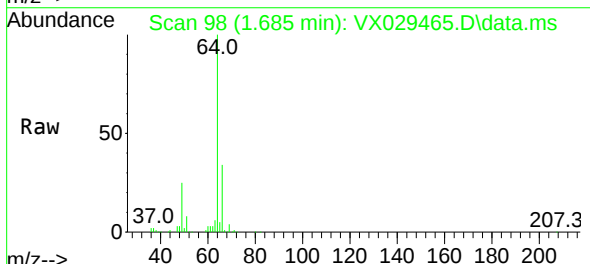
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EXYY2

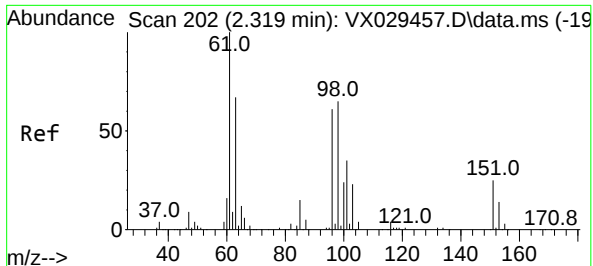
Tgt Ion: 62 Resp: 27069  
 Ion Ratio Lower Upper  
 62 100  
 64 39.6 23.3 43.3



#8  
 Chloroethane  
 Concen: 149.743 ug/L  
 RT: 1.685 min Scan# 98  
 Delta R.T. -0.006 min  
 Lab File: VX029465.D  
 Acq: 14 Jun 2022 15:20

Tgt Ion: 64 Resp: 247263  
 Ion Ratio Lower Upper  
 64 100  
 66 34.2 24.2 45.0





#12

1,1-Dichloroethene

Concen: 4.368 ug/L

RT: 2.319 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX029465.D

Acq: 14 Jun 2022 15:20

Instrument :

MSVOA\_X

ClientSampleId :

EXYY2

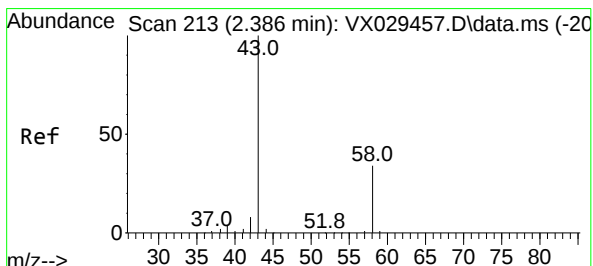
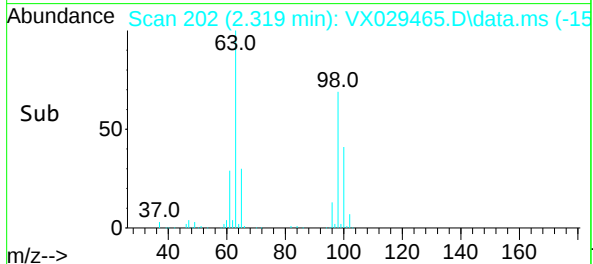
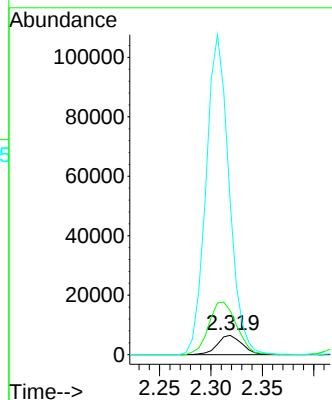
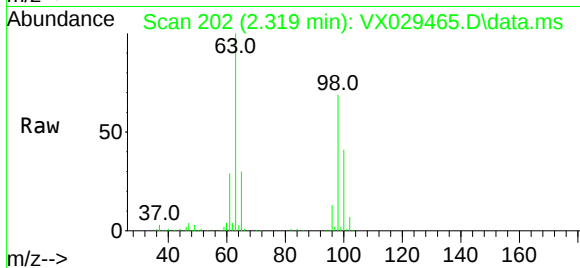
Tgt Ion: 96 Resp: 10951

Ion Ratio Lower Upper

96 100

61 227.4 118.2 219.4#

63 793.6 109.6 203.4#



#13

Acetone

Concen: 13.099 ug/L

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX029465.D

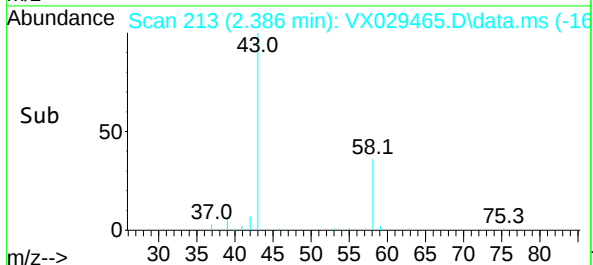
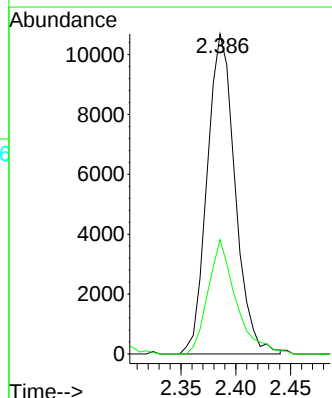
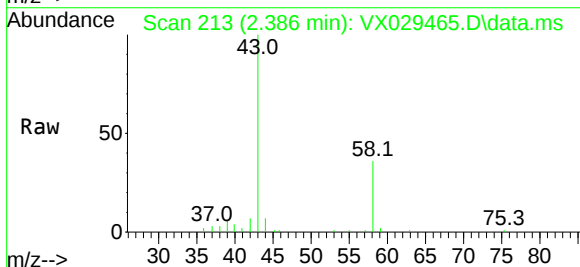
Acq: 14 Jun 2022 15:20

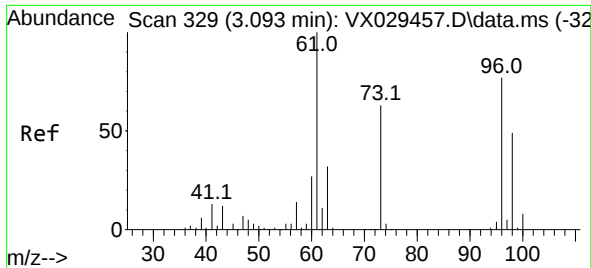
Tgt Ion: 43 Resp: 18948

Ion Ratio Lower Upper

43 100

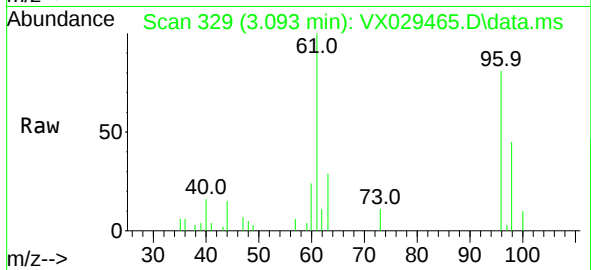
58 35.7 0.0 61.4



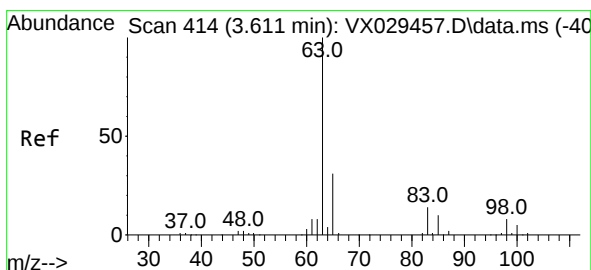
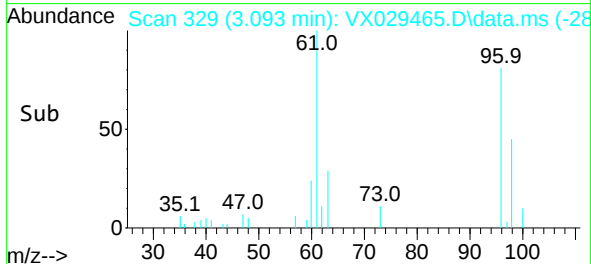
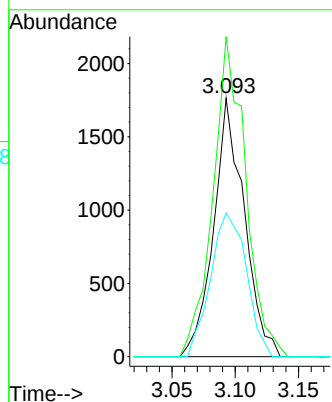


#17  
trans-1,2-Dichloroethene  
Concen: 1.104 ug/L  
RT: 3.093 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
EXYY2

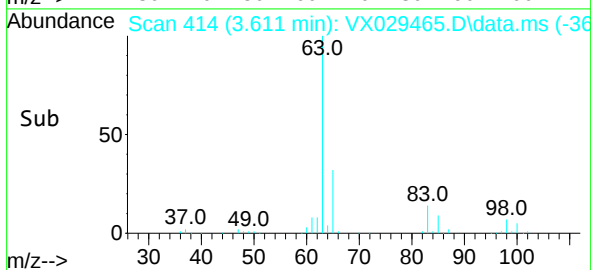
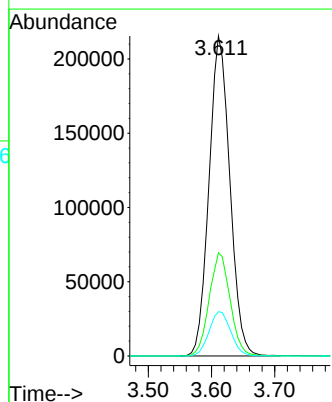
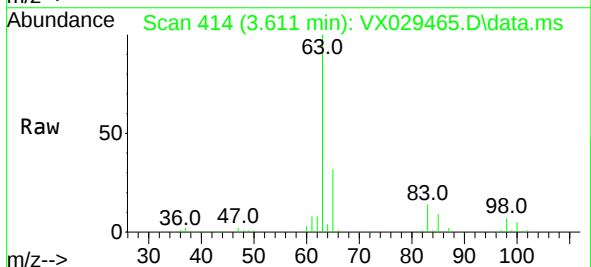


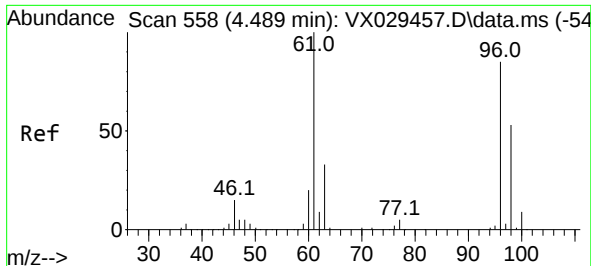
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 96 | Resp: | 2965  |       |
| Ion         | Ratio | Lower | Upper |
| 96          | 100   |       |       |
| 61          | 123.8 | 93.0  | 172.6 |
| 98          | 55.5  | 44.3  | 82.3  |



#19  
1,1-Dichloroethane  
Concen: 103.967 ug/L  
RT: 3.611 min Scan# 414  
Delta R.T. -0.000 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 493032 |
| Ion Ratio   | Lower Upper  |
| 63 100      |              |
| 65 32.3     | 22.9 42.5    |
| 83 13.8     | 10.1 18.9    |

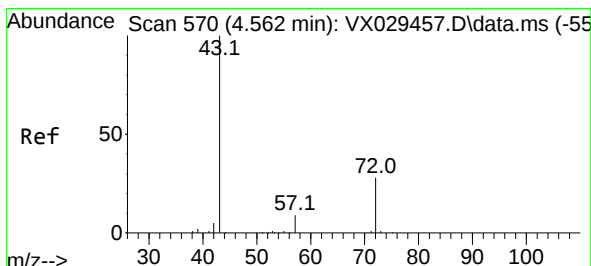
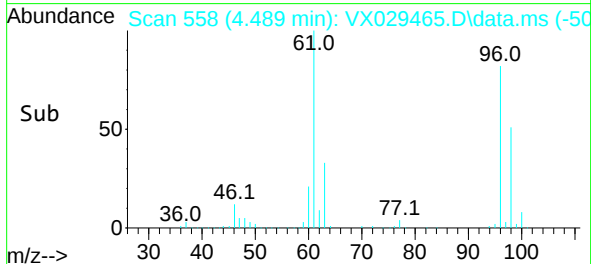
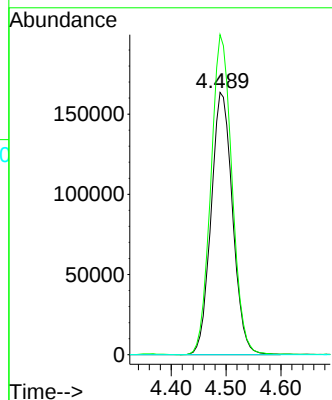
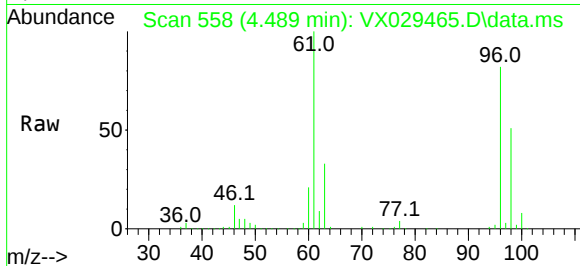




#20  
 cis-1,2-Dichloroethene  
 Concen: 146.470 ug/L  
 RT: 4.489 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VX029465.D  
 Acq: 14 Jun 2022 15:20

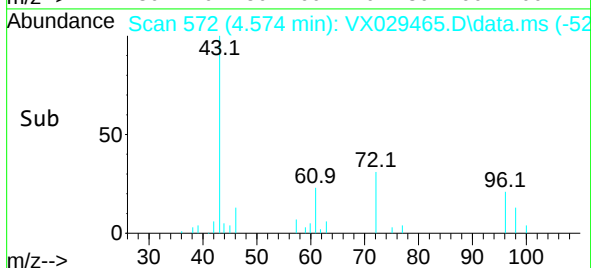
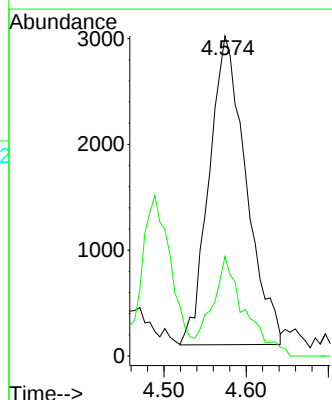
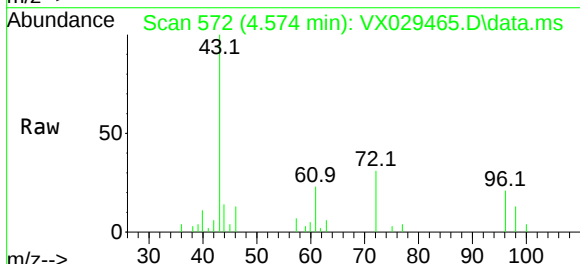
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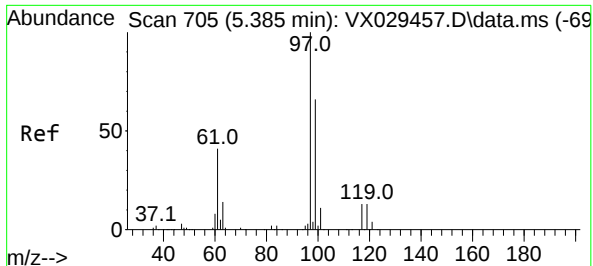
Tgt Ion: 96 Resp: 444450  
 Ion Ratio Lower Upper  
 96 100  
 61 122.0 86.7 161.1  
 68 0.0 0.0 0.0



#22  
 2-Butanone  
 Concen: 4.192 ug/L  
 RT: 4.574 min Scan# 572  
 Delta R.T. 0.012 min  
 Lab File: VX029465.D  
 Acq: 14 Jun 2022 15:20

Tgt Ion: 43 Resp: 9129  
 Ion Ratio Lower Upper  
 43 100  
 72 26.6 13.2 39.5





#30

1,1,1-Trichloroethane

Concen: 35.969 ug/L

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX029465.D

Acq: 14 Jun 2022 15:20

Instrument :

MSVOA\_X

ClientSampleId :

EXYY2

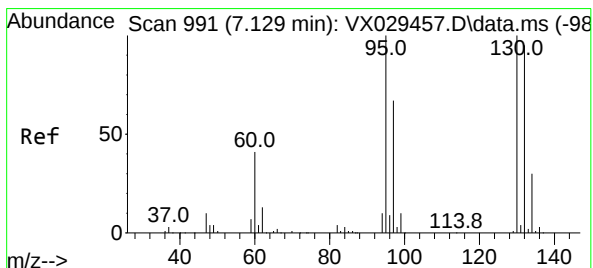
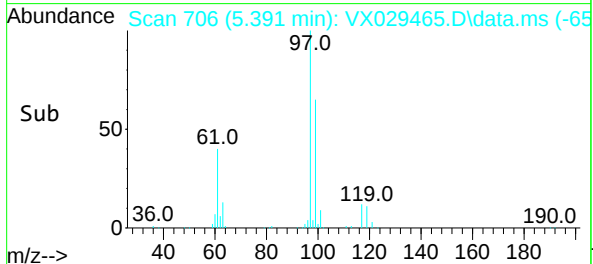
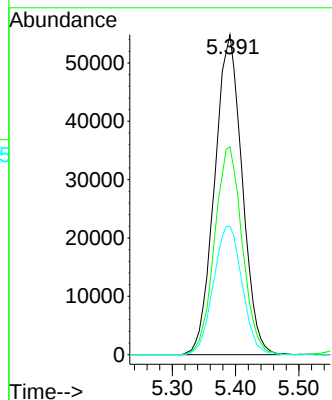
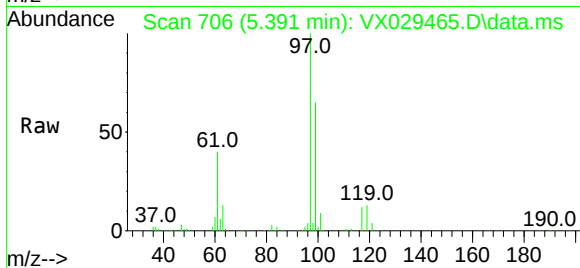
Tgt Ion: 97 Resp: 165833

Ion Ratio Lower Upper

97 100

99 65.2 51.5 77.3

61 41.8 35.2 52.8



#34

Trichloroethene

Concen: 6.783 ug/L

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX029465.D

Acq: 14 Jun 2022 15:20

Tgt Ion: 95 Resp: 25988

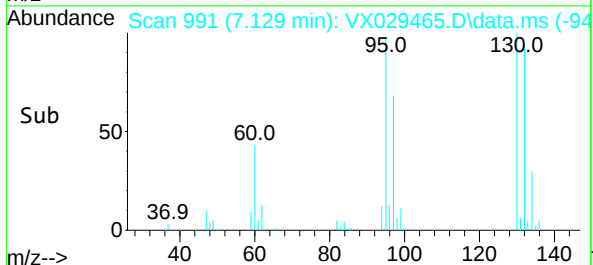
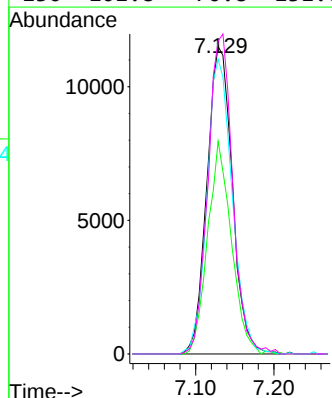
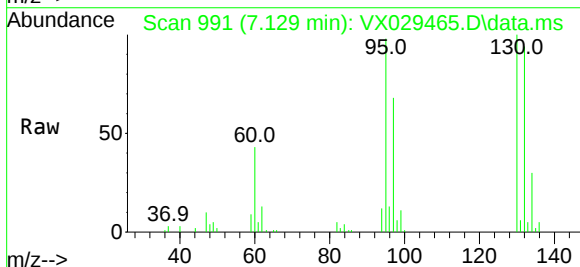
Ion Ratio Lower Upper

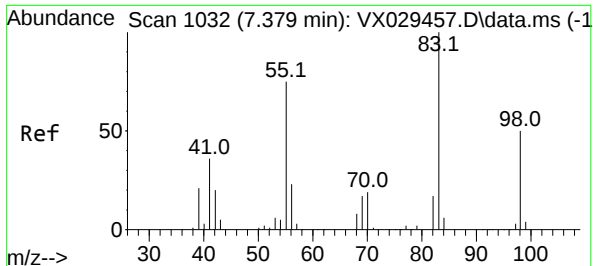
95 100

97 69.2 45.5 84.5

132 95.9 69.9 129.7

130 101.8 70.8 131.6





#35

Methylcyclohexane

Concen: 0.552 ug/L

RT: 7.385 min Scan# 1188

Delta R.T. 0.006 min

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ClientSampleId :

EXYY2

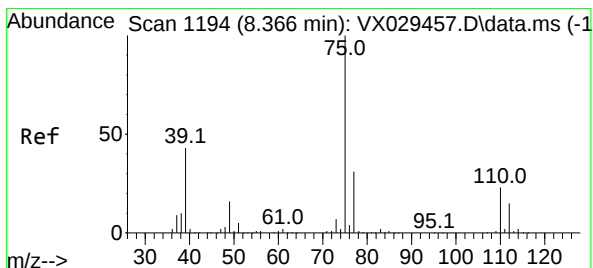
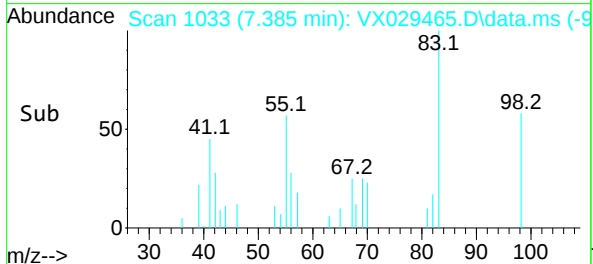
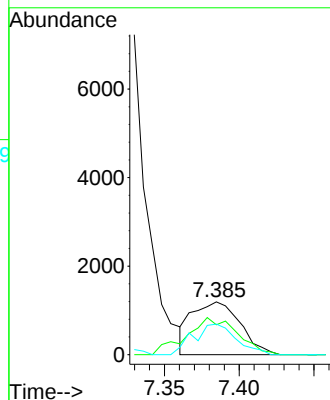
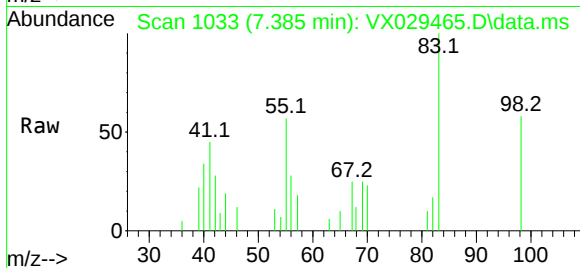
Tgt Ion: 83 Resp: 2672

Ion Ratio Lower Upper

83 100

55 63.5 60.6 90.8

98 51.4 39.8 59.8



#39

cis-1,3-Dichloropropene

Concen: 1.003 ug/L

RT: 8.330 min Scan# 1188

Delta R.T. -0.037 min

Lab File: VX029465.D

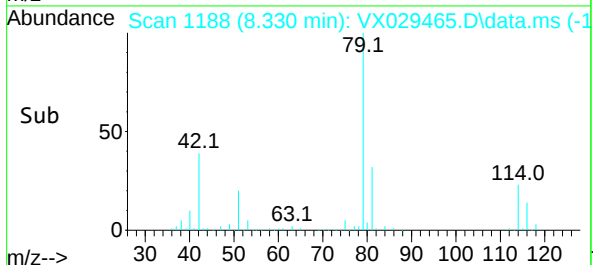
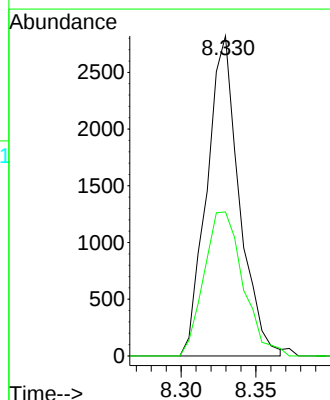
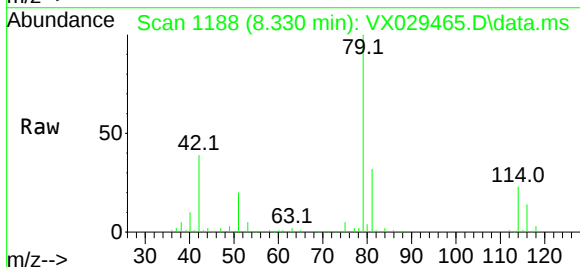
Acq: 14 Jun 2022 15:20

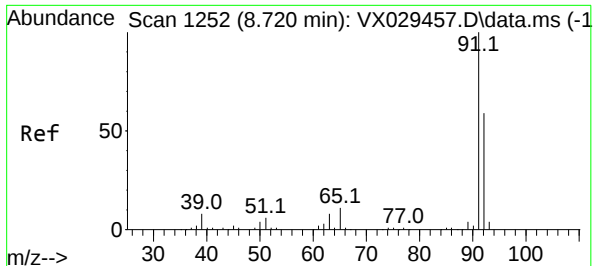
Tgt Ion: 75 Resp: 4248

Ion Ratio Lower Upper

75 100

77 45.0 21.1 39.1#





#42

Toluene

Concen: 2.814 ug/L

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX029465.D

Acq: 14 Jun 2022 15:20

Instrument :

MSVOA\_X

ClientSampleId :

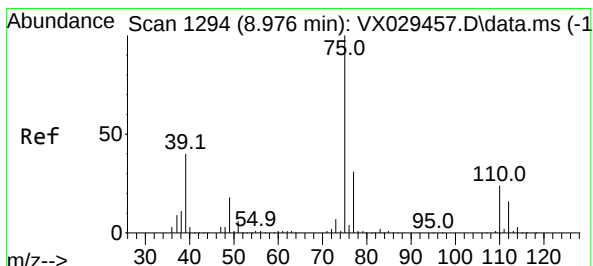
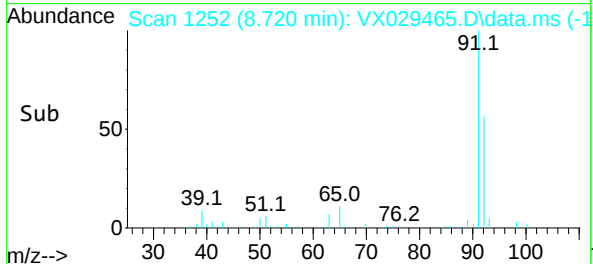
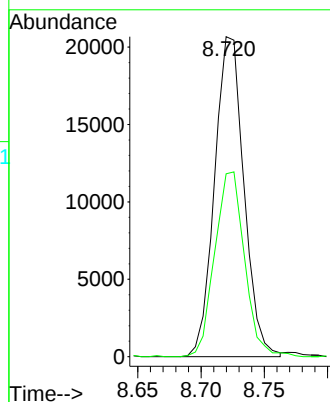
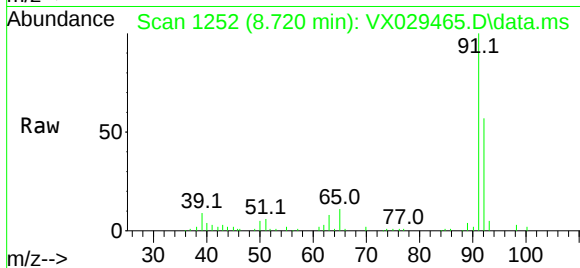
EXYY2

Tgt Ion: 91 Resp: 33340

Ion Ratio Lower Upper

91 100

92 57.1 41.5 77.1



#44

trans-1,3-Dichloropropene

Concen: 0.714 ug/L

RT: 8.951 min Scan# 1290

Delta R.T. -0.024 min

Lab File: VX029465.D

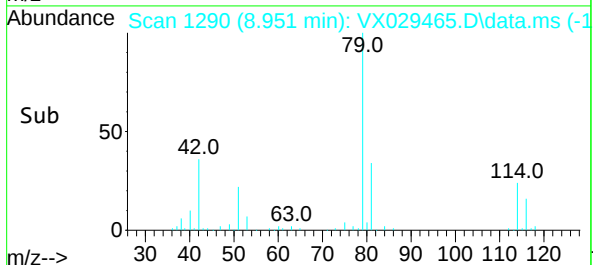
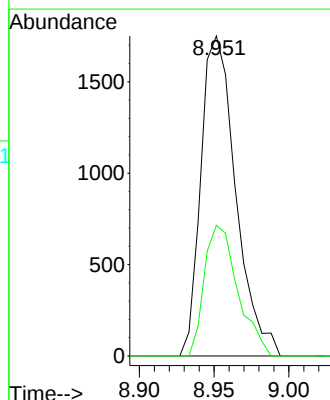
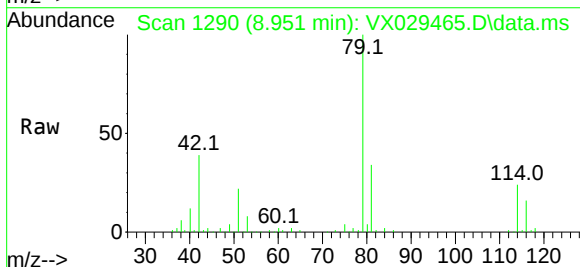
Acq: 14 Jun 2022 15:20

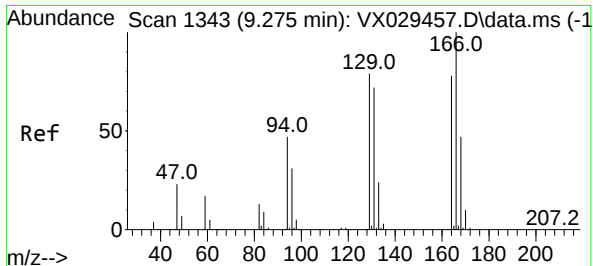
Tgt Ion: 75 Resp: 2837

Ion Ratio Lower Upper

75 100

77 40.8 22.3 41.3

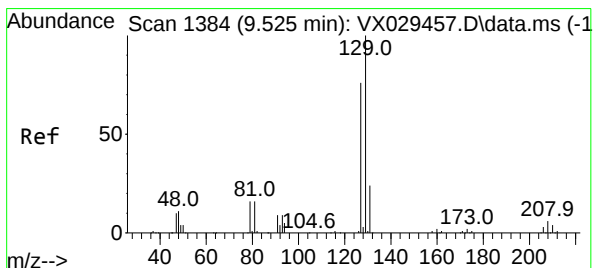
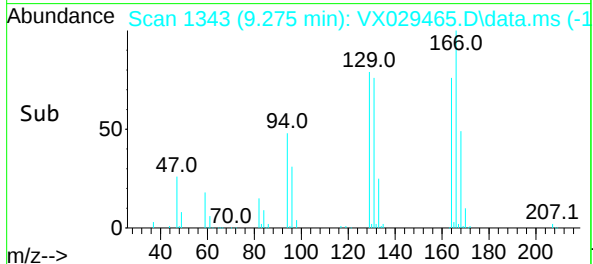
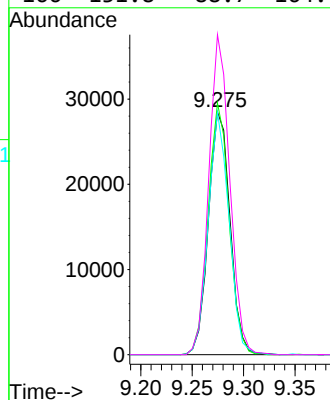
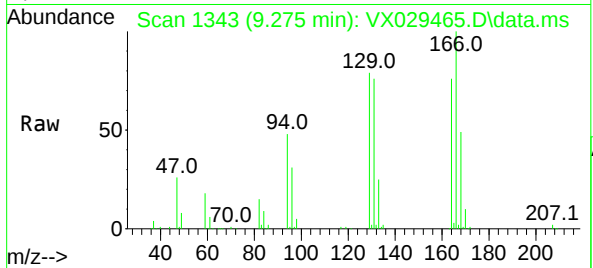




#46  
Tetrachloroethene  
Concen: 18.901 ug/L  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

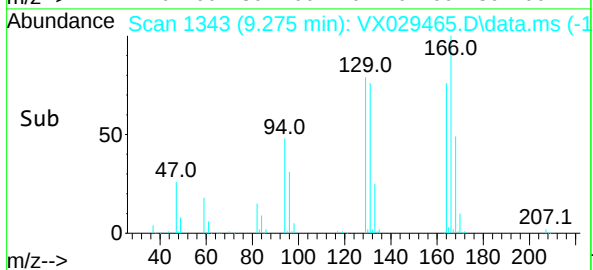
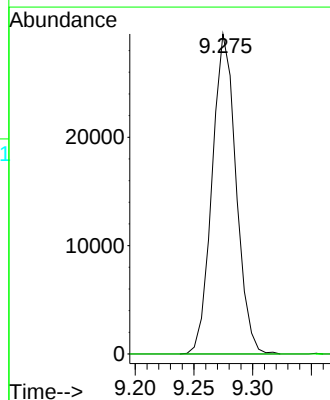
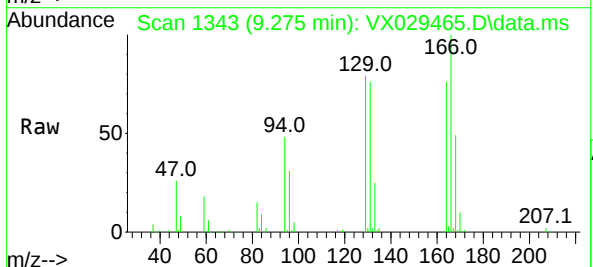
Instrument :  
MSVOA\_X  
ClientSampleId :  
EXYY2

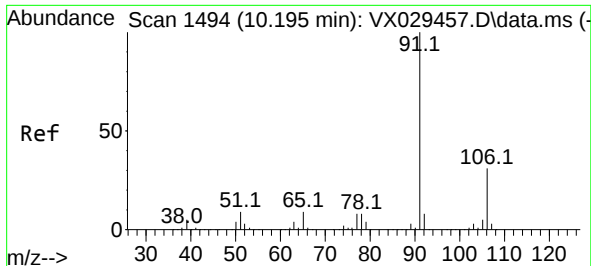
Tgt Ion:164 Resp: 41568  
Ion Ratio Lower Upper  
164 100  
129 103.6 65.5 121.7  
131 99.9 64.3 119.3  
166 131.8 88.7 164.7



#49  
Dibromochloromethane  
Concen: 14.385 ug/L  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

Tgt Ion:129 Resp: 41984  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.3 100.9#

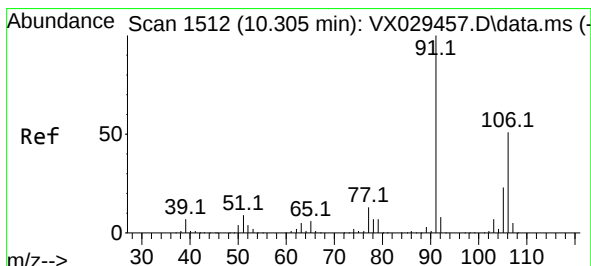
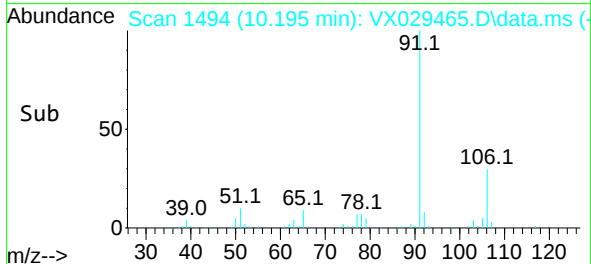
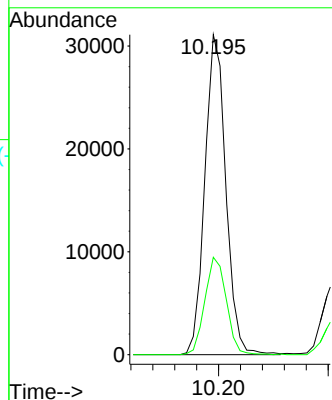
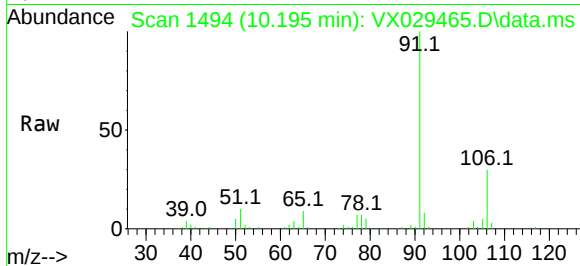




#52  
Ethylbenzene  
Concen: 3.194 ug/L  
RT: 10.195 min Scan# 1494  
Delta R.T. -0.000 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

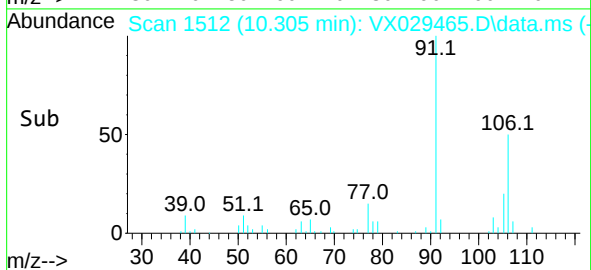
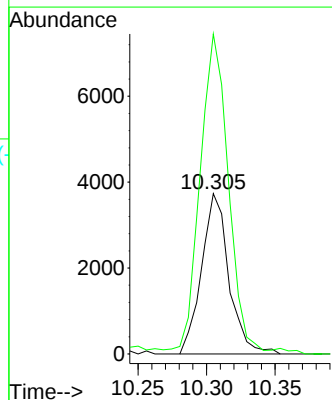
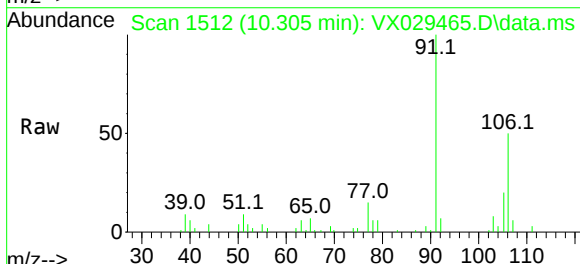
Instrument :  
MSVOA\_X  
ClientSampleId :  
EXYY2

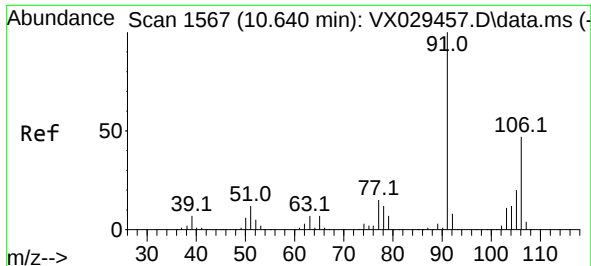
Tgt Ion: 91 Resp: 41405  
Ion Ratio Lower Upper  
91 100  
106 30.4 21.7 40.3



#53  
m,p-Xylene  
Concen: 1.018 ug/L  
RT: 10.305 min Scan# 1512  
Delta R.T. -0.000 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

Tgt Ion: 106 Resp: 5182  
Ion Ratio Lower Upper  
106 100  
91 199.7 145.7 270.5

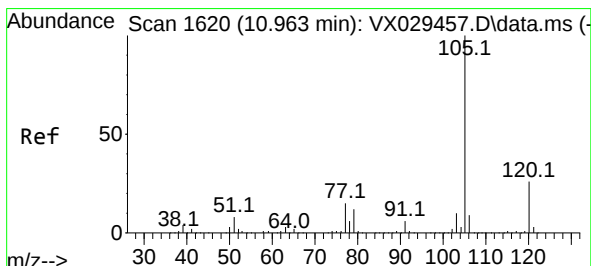
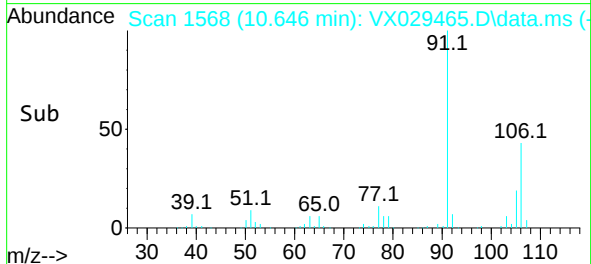
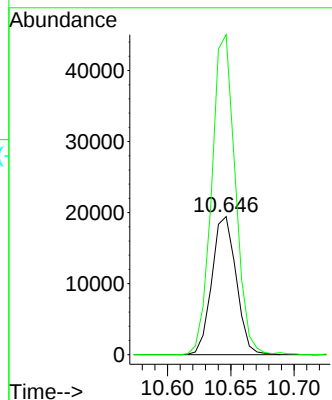
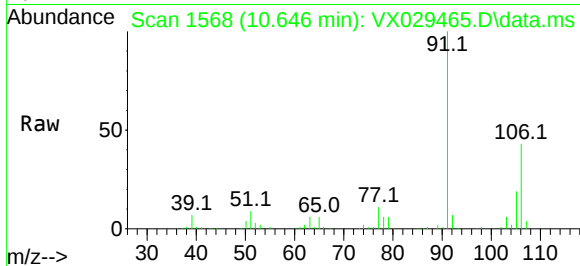




#54  
o-Xylene  
Concen: 5.174 ug/L  
RT: 10.646 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

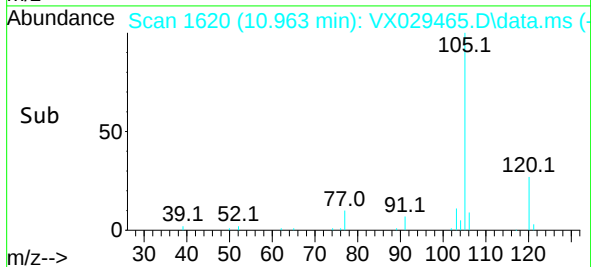
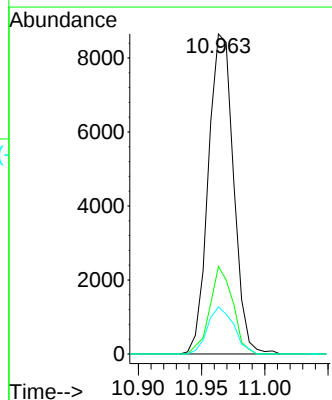
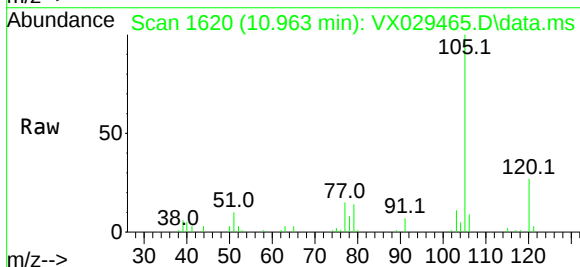
Instrument :  
MSVOA\_X  
ClientSampleId :  
EXYY2

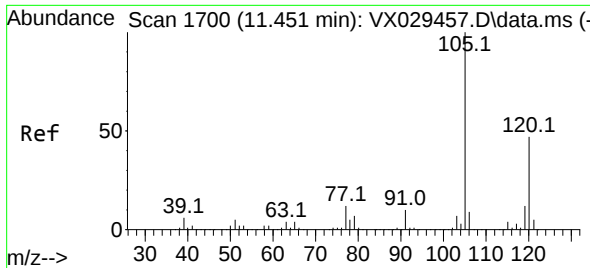
Tgt Ion:106 Resp: 25969  
Ion Ratio Lower Upper  
106 100  
91 231.7 151.2 280.8



#60  
Isopropylbenzene  
Concen: 0.944 ug/L  
RT: 10.963 min Scan# 1620  
Delta R.T. -0.000 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

Tgt Ion:105 Resp: 11999  
Ion Ratio Lower Upper  
105 100  
120 24.8 21.2 31.8  
77 15.3 12.5 18.7

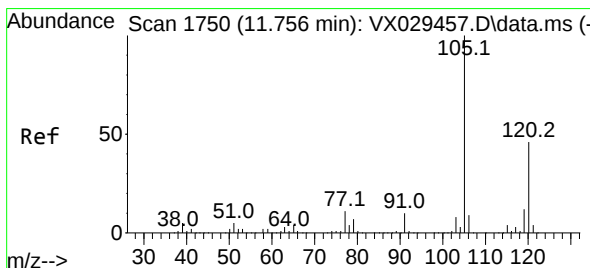
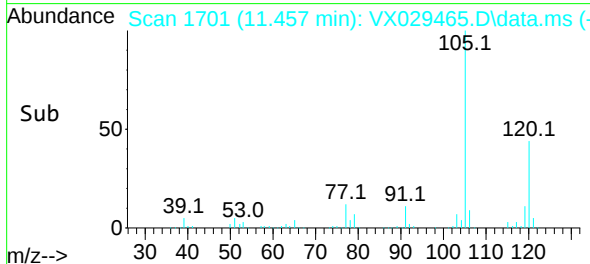
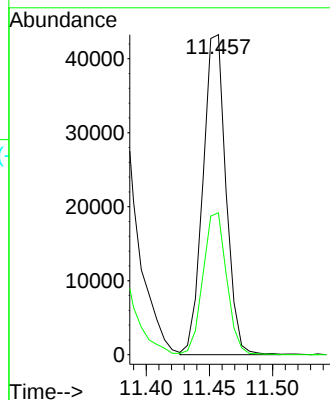
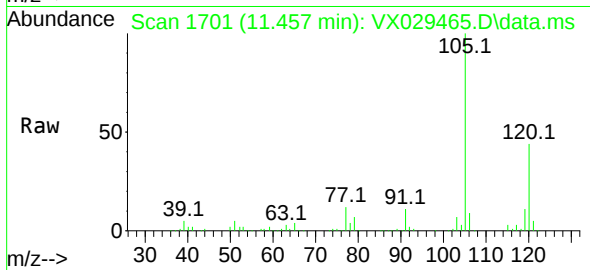




#62  
1,3,5-Trimethylbenzene  
Concen: 5.053 ug/L  
RT: 11.457 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

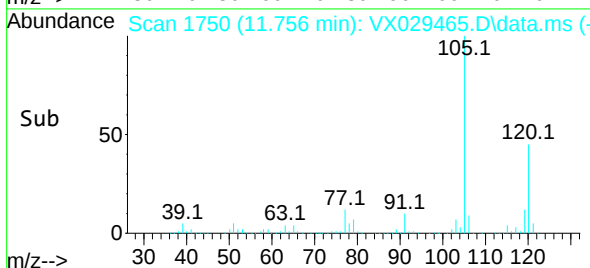
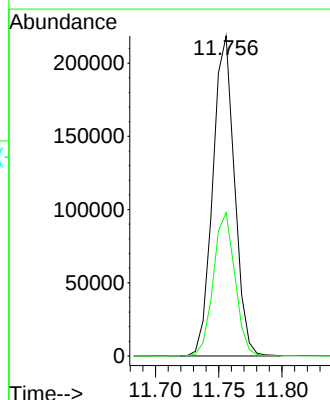
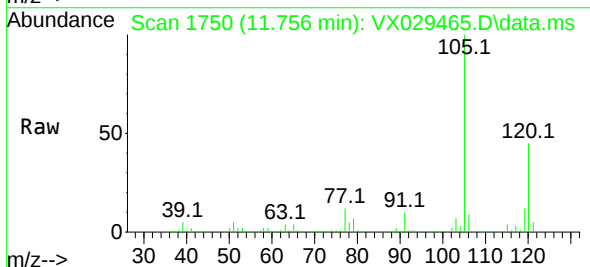
Instrument :  
MSVOA\_X  
ClientSampleId :  
EXYY2

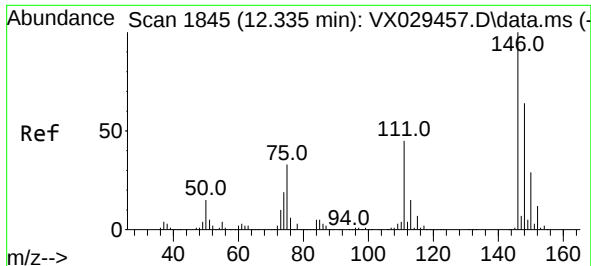
Tgt Ion:105 Resp: 54837  
Ion Ratio Lower Upper  
105 100  
120 44.8 39.1 58.7



#63  
1,2,4-Trimethylbenzene  
Concen: 24.208 ug/L  
RT: 11.756 min Scan# 1750  
Delta R.T. -0.000 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

Tgt Ion:105 Resp: 260857  
Ion Ratio Lower Upper  
105 100  
120 44.3 36.1 54.1

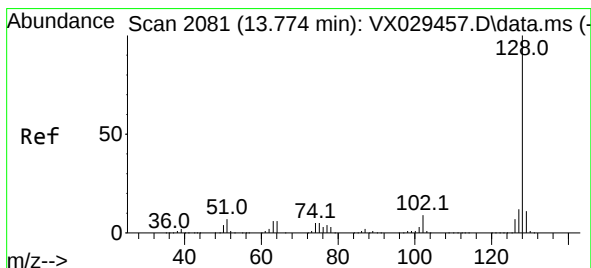
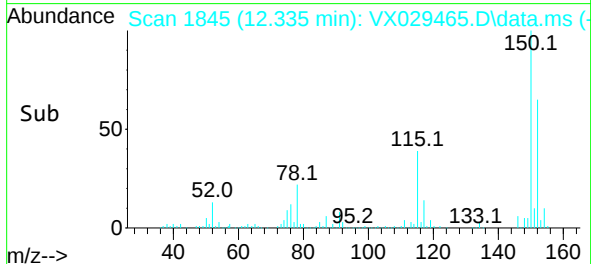
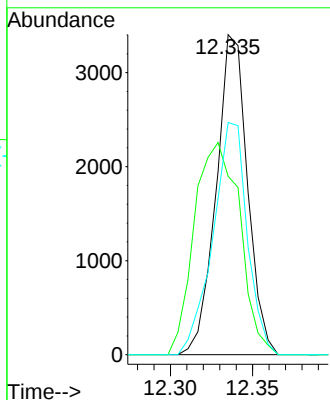
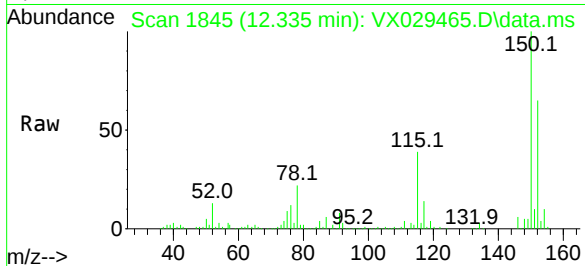




#67  
1,2-Dichlorobenzene  
Concen: 0.850 ug/L  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
EXYY2

Tgt Ion:146 Resp: 4511  
Ion Ratio Lower Upper  
146 100  
111 55.8 34.5 51.7#  
148 72.5 51.9 77.9



#71  
Naphthalene  
Concen: 1.848 ug/L  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX029465.D  
Acq: 14 Jun 2022 15:20

Tgt Ion:128 Resp: 22086  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.2 15.2  
129 11.1 8.8 13.2

