

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX070720\  
 Data File : VX017213.D  
 Acq On : 07 Jul 2020 18:54  
 Operator : JC/SP  
 Sample : L3234-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-3

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2020 9:31:39 AM

Quant Time: Jul 10 16:52:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 5.64  | 168  | 258609   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.83  | 114  | 424717   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.10 | 117  | 432963   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.06 | 152  | 241557   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 167166   | 52.43  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 104.86% |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 144333   | 53.72  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 107.44% |          |
| 50) Toluene-d8              | 8.70  | 98   | 518771   | 52.22  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 104.44% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 224964   | 57.93  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 115.86% |          |
| Target Compounds            |       |      |          |        |         |          |
|                             |       |      |          |        | Qvalue  |          |
| 16) Acetone                 | 2.42  | 43   | 3554     | 2.980  | ug/l    | 98       |
| 31) Cyclohexane             | 5.56  | 56   | 27377    | 6.360  | ug/l    | 91       |
| 39) Methylcyclohexane       | 7.45  | 83   | 5133     | 1.149  | ug/l    | 91       |
| 40) Benzene                 | 6.12  | 78   | 14727    | 1.249  | ug/l    | 97       |
| 52) Toluene                 | 8.76  | 92   | 83149    | 11.292 | ug/l    | 99       |
| 67) Ethyl Benzene           | 10.24 | 91   | 542987   | 36.385 | ug/l    | 98       |
| 68) m/p-Xylenes             | 10.34 | 106  | 339141   | 59.186 | ug/l    | 98       |
| 69) o-Xylene                | 10.68 | 106  | 131213   | 24.071 | ug/l    | 98       |
| 73) Isopropylbenzene        | 11.00 | 105  | 75649    | 4.781  | ug/l    | 97       |
| 78) n-propylbenzene         | 11.34 | 91   | 136714   | 7.641  | ug/l    | 100      |
| 80) 1,3,5-Trimethylbenzene  | 11.49 | 105  | 33924    | 2.585  | ug/l    | 99       |
| 84) 1,2,4-Trimethylbenzene  | 11.79 | 105  | 224111   | 16.832 | ug/l    | 99       |
| 85) sec-Butylbenzene        | 11.93 | 105  | 4029m    | 0.266  | ug/l    |          |
| 95) Naphthalene             | 13.82 | 128  | 87015    | 5.680  | ug/l    | 100      |

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

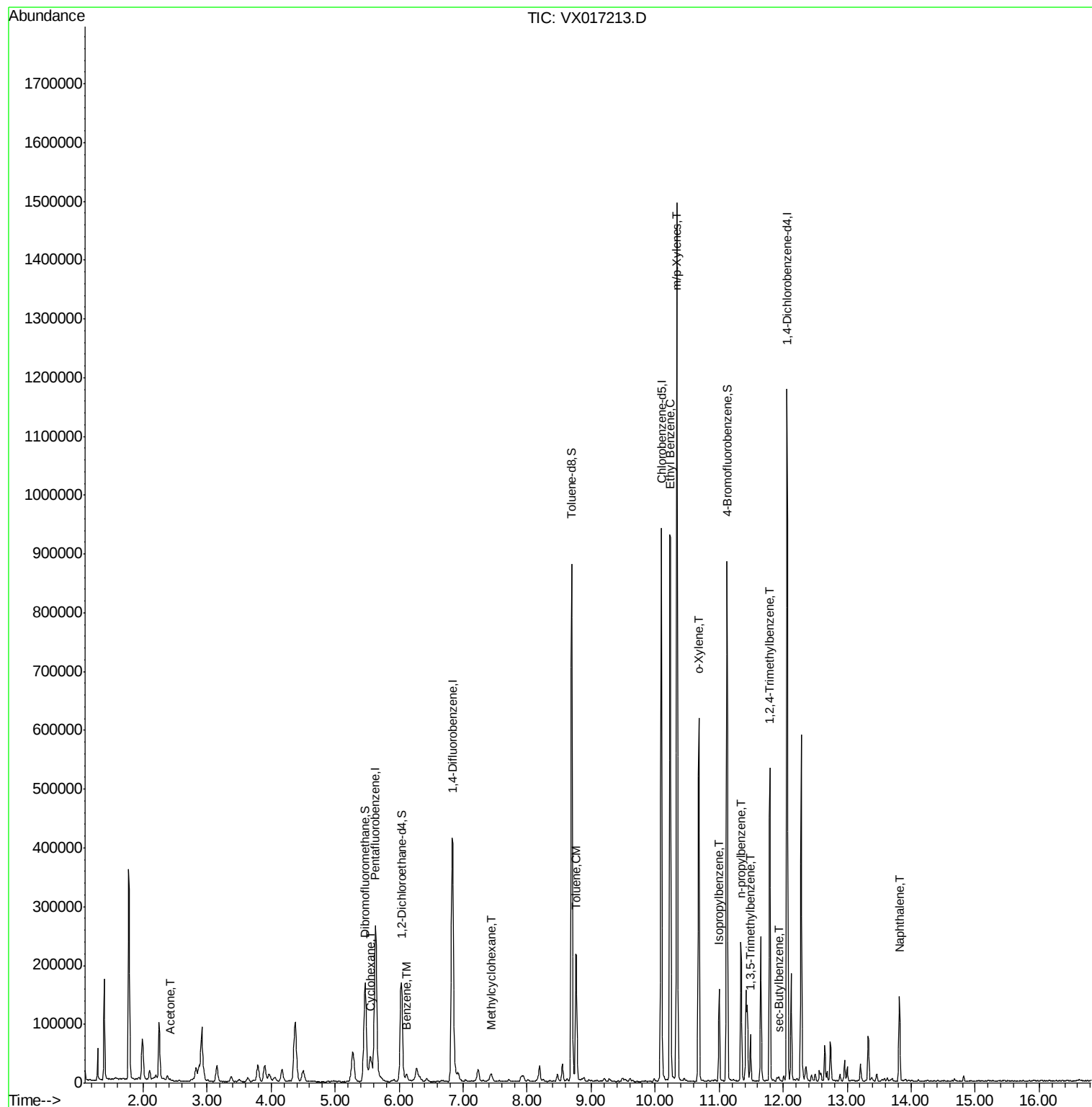
Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX070720\  
Data File : VX017213.D  
Acq On : 07 Jul 2020 18:54  
Operator : JC/SP  
Sample : L3234-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3

Manual Integrations  
APPROVED

MMDadoda  
7/8/2020 9:31:39 AM

Quant Time: Jul 10 16:52:48 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 29 17:10:38 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

Instrument :

MSVOA\_X

ClientSampleId :

MW-3

Tot Ion:168 Resp: 258609

Ion Ratio Lower Upper

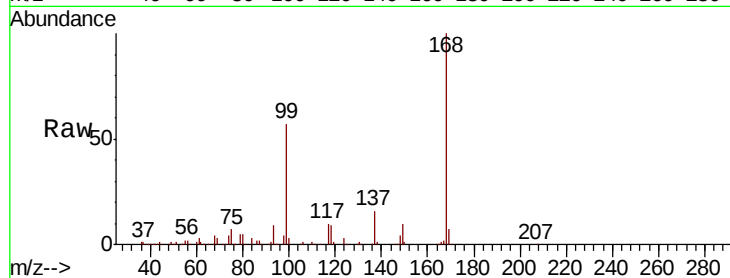
168 100

99 57.2 42.6 64.0

Manual Integrations  
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7/8/2020 9:31:39 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

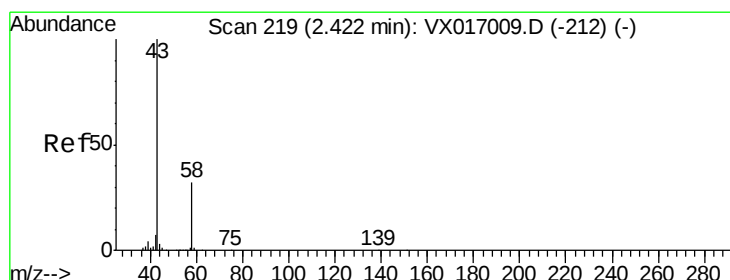
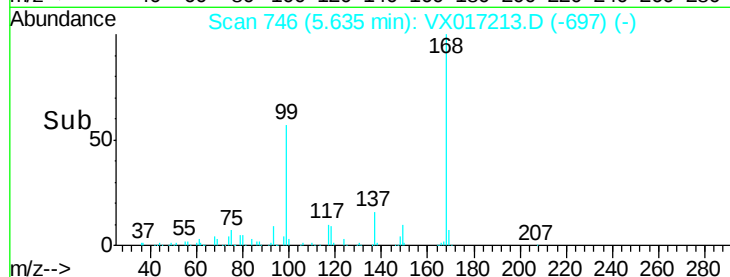
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 2.980 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017213.D

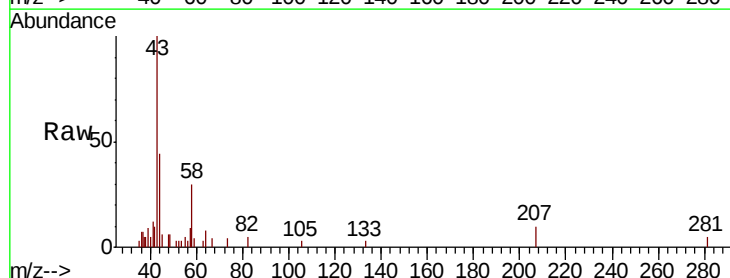
Acq: 07 Jul 2020 18:54

Tgt Ion: 43 Resp: 3554

Ion Ratio Lower Upper

43 100

58 31.0 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

2000

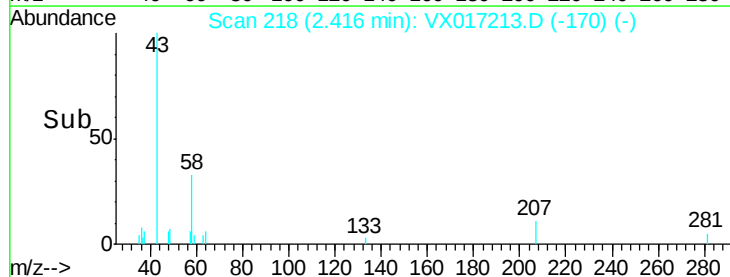
1500

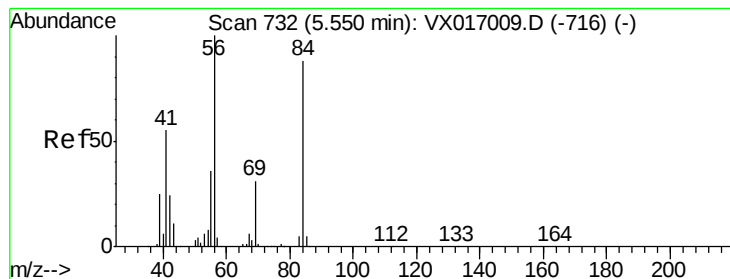
1000

500

0

Time-->





#31

Cyclohexane

Concen: 6.360 ug/l

RT: 5.56 min Scan# 733

Delta R.T. 0.01 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

Instrument :

MSVOA\_X

ClientSampled :

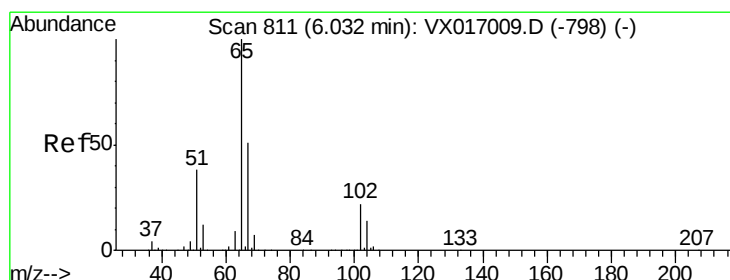
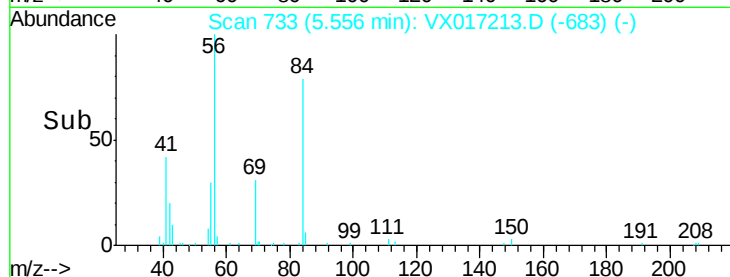
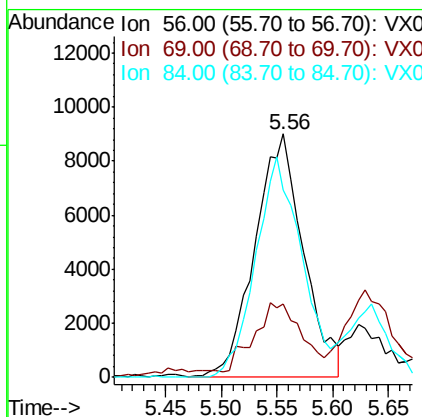
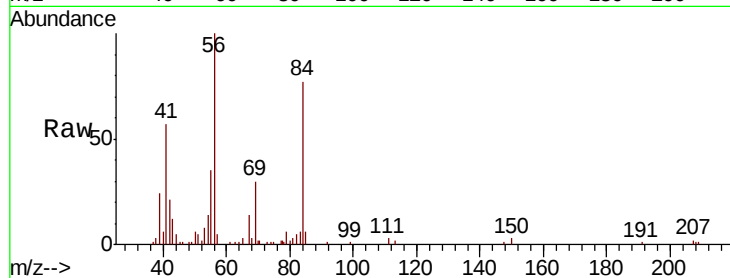
MW-3

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|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 56    | Resp: | 27377 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 27.9  | 25.0  | 37.4  |
| 84       | 77.1  | 69.1  | 103.7 |



#33

1,2-Dichloroethane-d4

Concen: 52.434 ug/l

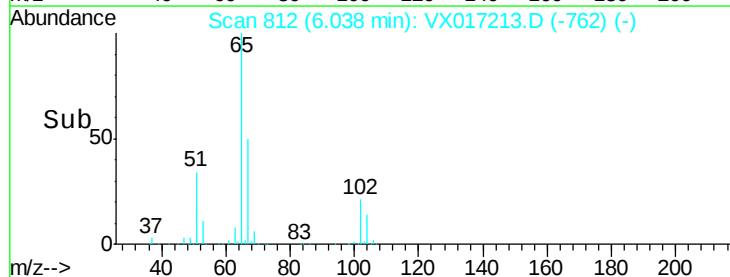
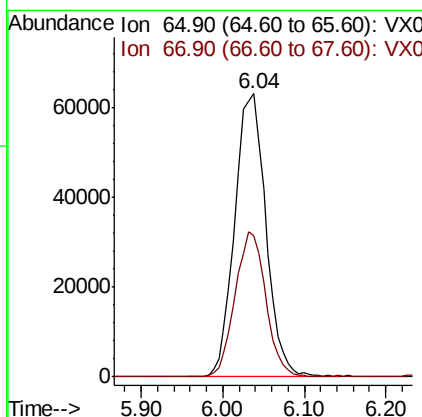
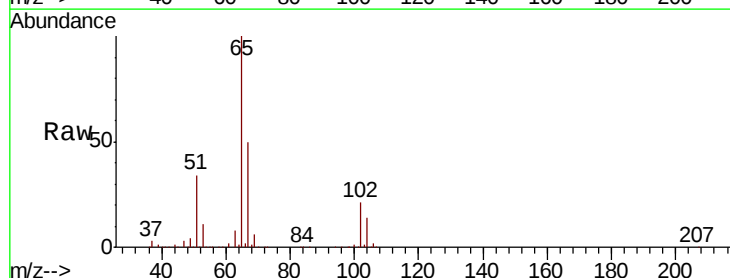
RT: 6.04 min Scan# 812

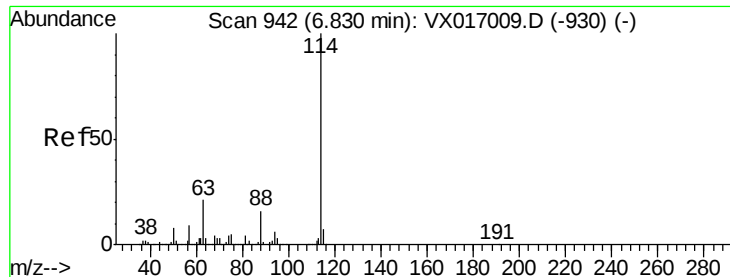
Delta R.T. 0.01 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 167166 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 50.4  | 0.0   | 103.8  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

Instrument :

MSVOA\_X

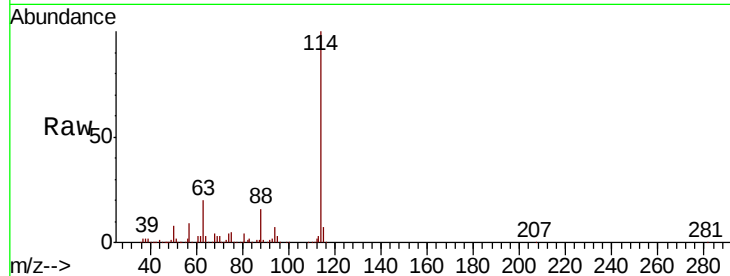
ClientSampleId :

MW-3

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 114  | Resp: | 424717 |
| Ion Ratio |      | Lower | Upper  |
| 114       | 100  |       |        |
| 63        | 19.9 | 0.0   | 41.4   |
| 88        | 15.6 | 0.0   | 32.4   |

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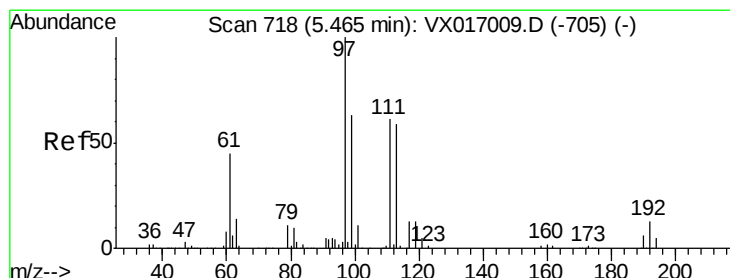
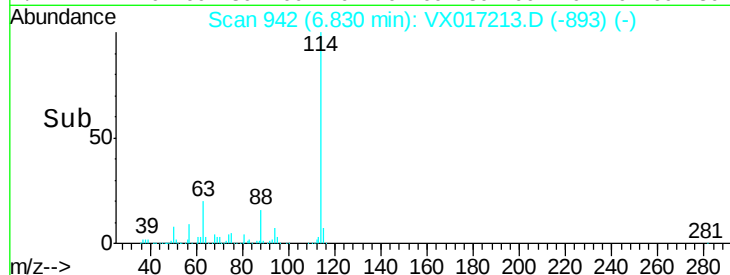
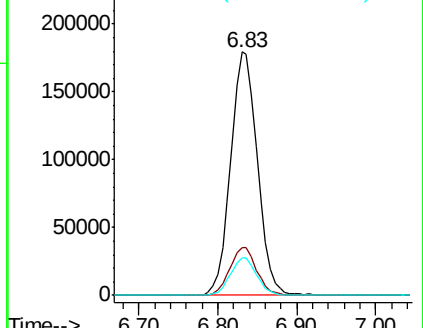
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7/8/2020 9:31:39 AM



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 53.723 ug/l

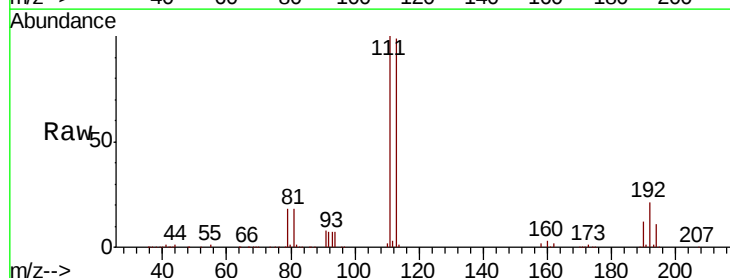
RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

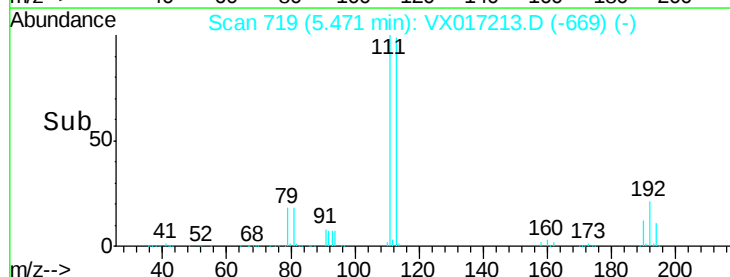
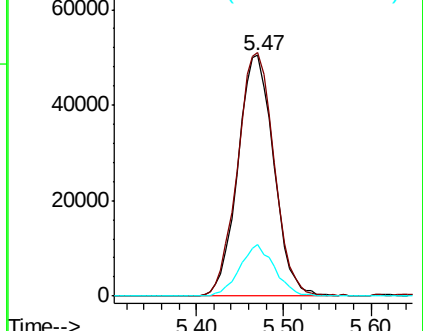
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 144333 |
| Ion Ratio |       | Lower | Upper  |
| 113       | 100   |       |        |
| 111       | 102.9 | 81.9  | 122.9  |
| 192       | 20.8  | 16.7  | 25.1   |

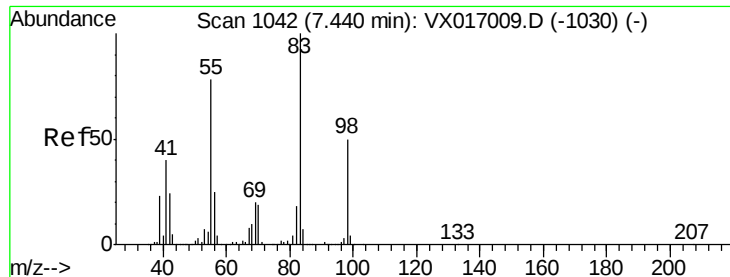


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





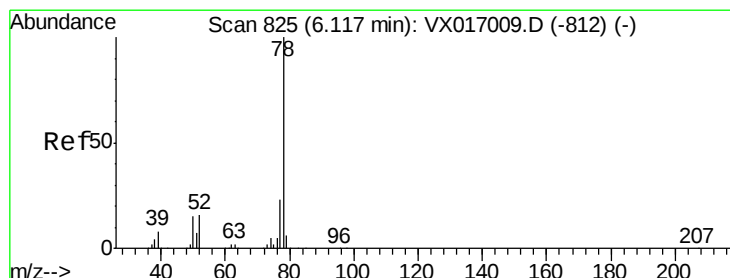
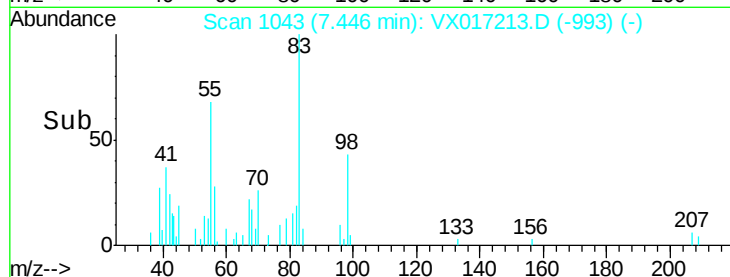
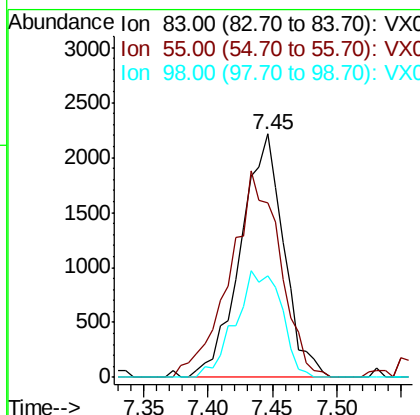
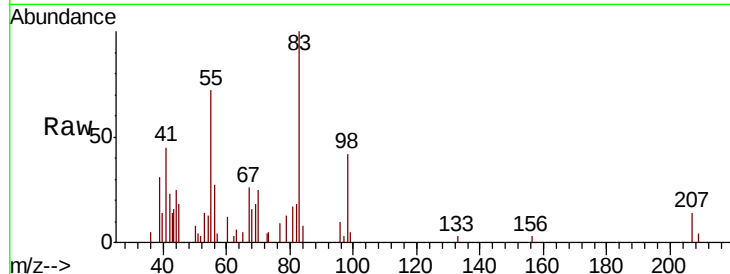
#39  
Methvlcvclohexane  
Concen: 1.149 ug/l  
RT: 7.45 min Scan# 1043  
Delta R.T. 0.01 min  
Lab File: VX017213.D  
Acq: 07 Jul 2020 18:54

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 71.8  | 62.5  | 93.7  |
| 98      | 41.5  | 40.1  | 60.1  |

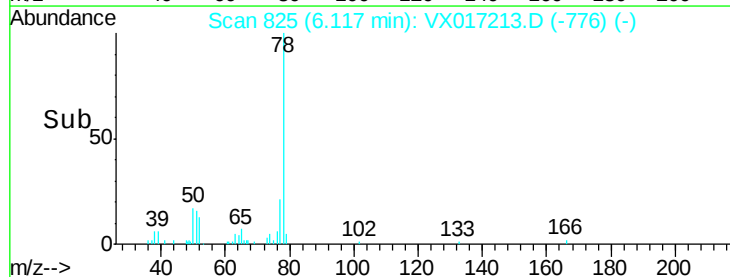
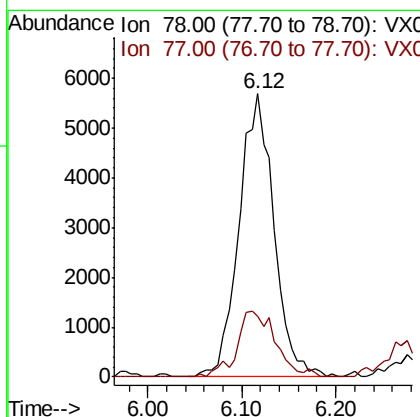
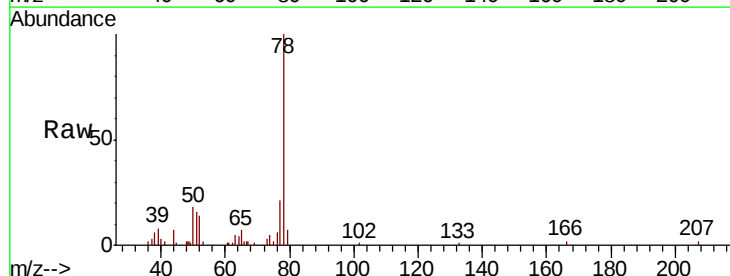
Manual Integrations  
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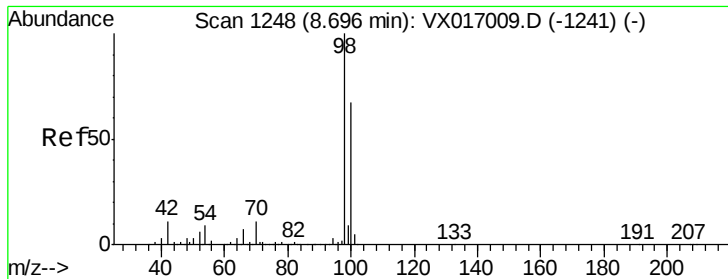
MMDadoda  
7/8/2020 9:31:39 AM



#40  
Benzene  
Concen: 1.249 ug/l  
RT: 6.12 min Scan# 825  
Delta R.T. -0.00 min  
Lab File: VX017213.D  
Acq: 07 Jul 2020 18:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 21.3  | 18.3  | 27.5  |





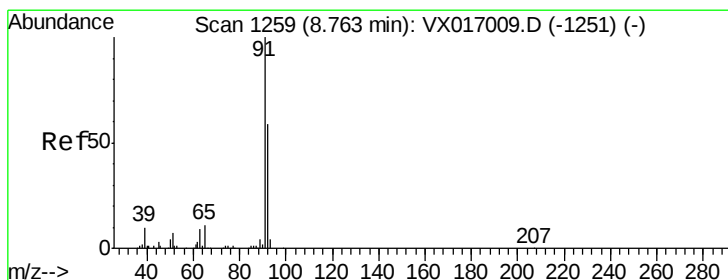
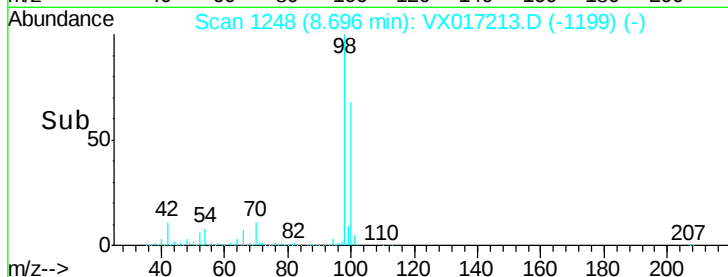
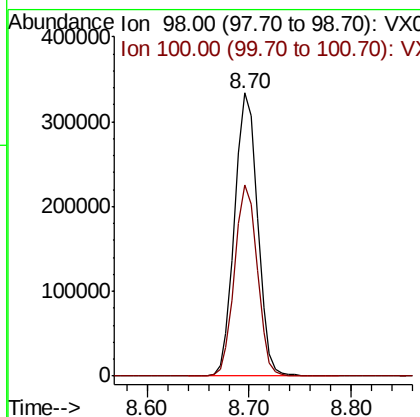
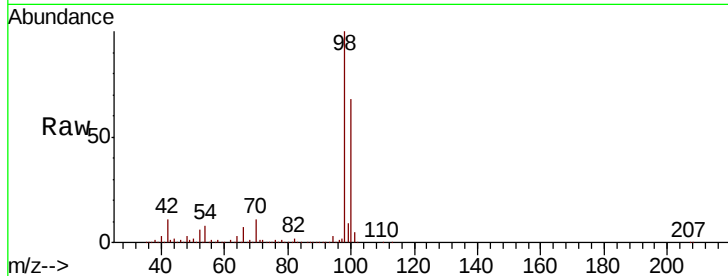
#50  
Toluene-d8  
Concen: 52.219 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX017213.D  
Acq: 07 Jul 2020 18:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.8  | 53.8  | 80.6  |

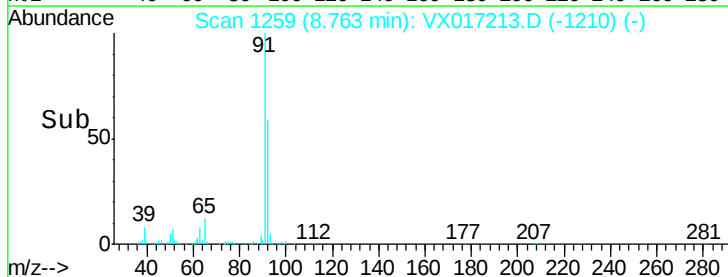
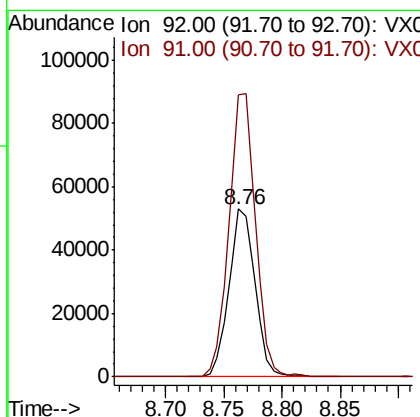
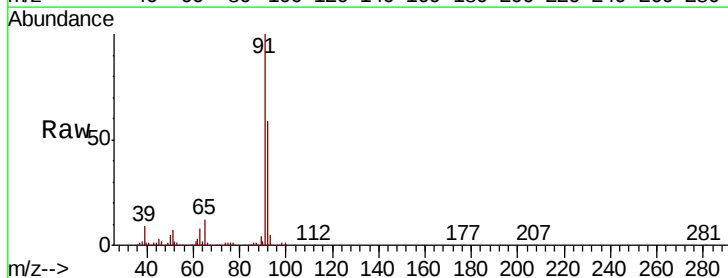
Manual Integrations  
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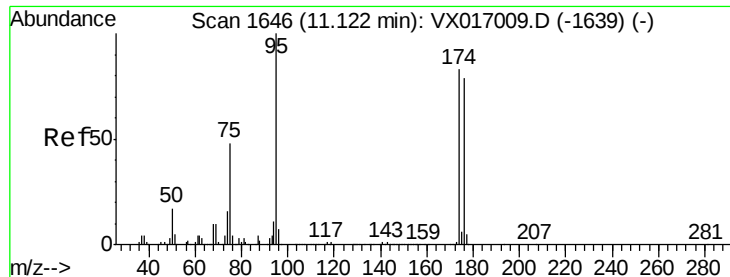
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7/8/2020 9:31:39 AM



#52  
Toluene  
Concen: 11.292 ug/l  
RT: 8.76 min Scan# 1259  
Delta R.T. -0.00 min  
Lab File: VX017213.D  
Acq: 07 Jul 2020 18:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 170.2 | 136.9 | 205.3 |





#62

4-Bromofluorobenzene

Concen: 57.927 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

Instrument :

MSVOA\_X

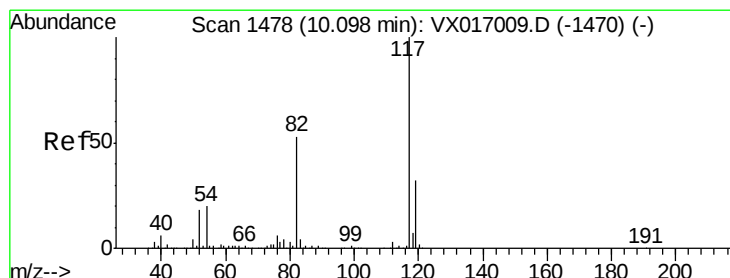
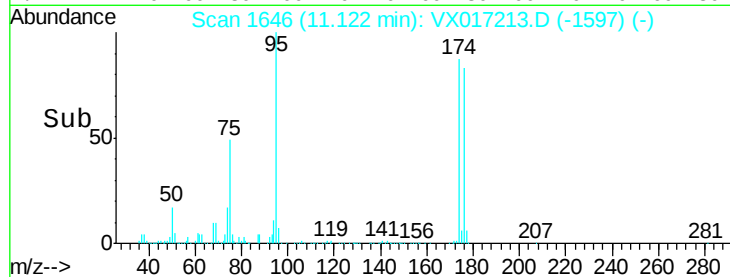
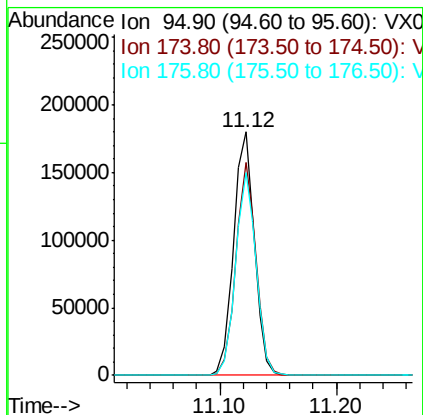
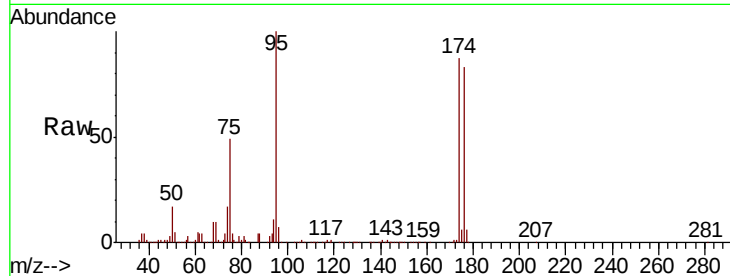
ClientSampled :

MW-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 224964 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 84.4  | 0.0   | 164.0  |
| 176       | 81.5  | 0.0   | 157.6  |

Manual Integrations  
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7/8/2020 9:31:39 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

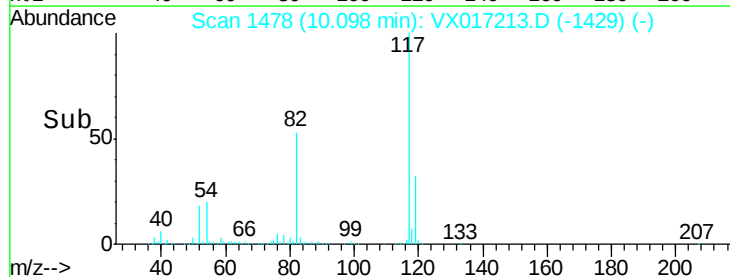
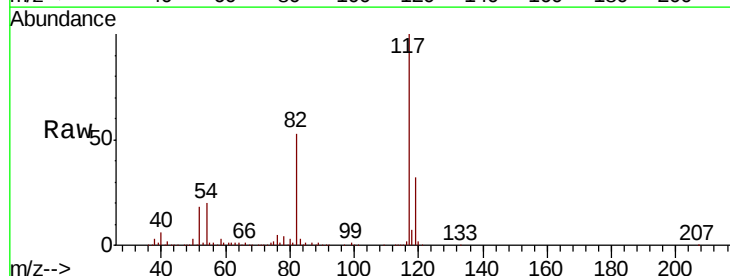
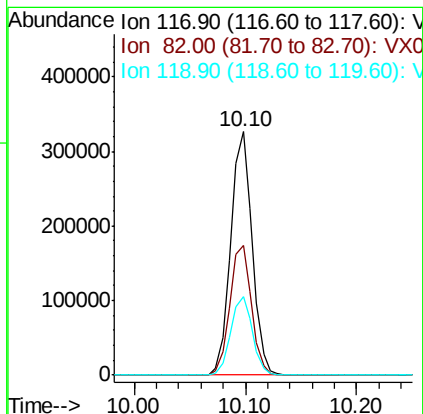
RT: 10.10 min Scan# 1478

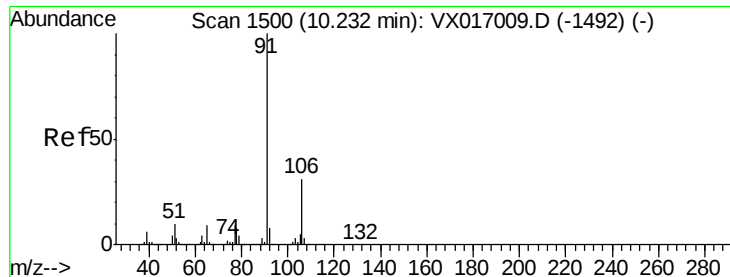
Delta R.T. -0.00 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 432963 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 53.3  | 42.6  | 63.8   |
| 119       | 32.4  | 25.4  | 38.2   |





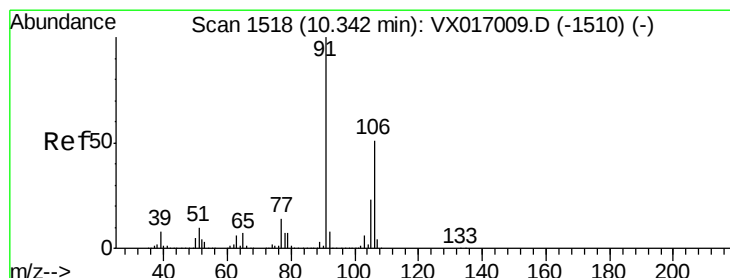
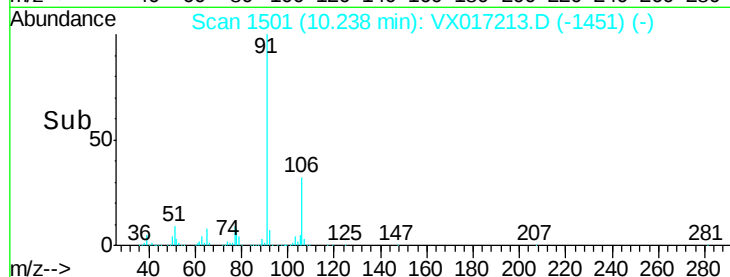
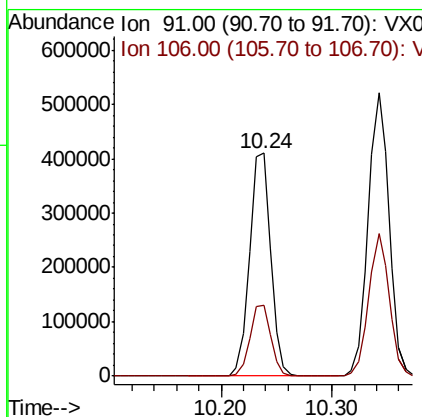
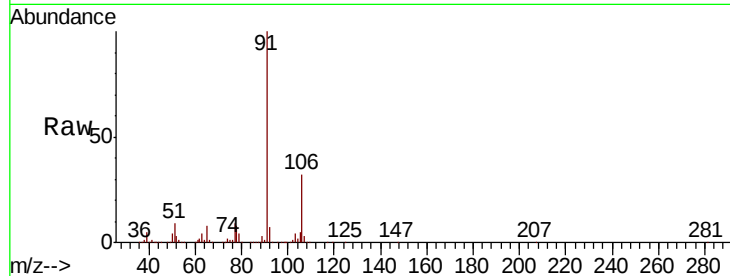
#67  
Ethyl Benzene  
Concen: 36.385 ug/l  
RT: 10.24 min Scan# 1501  
Delta R.T. 0.01 min  
Lab File: VX017213.D  
Acq: 07 Jul 2020 18:54

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-3

Tot Ion: 91 Resp: 542987  
Ion Ratio Lower Upper  
91 100  
106 32.0 24.7 37.1

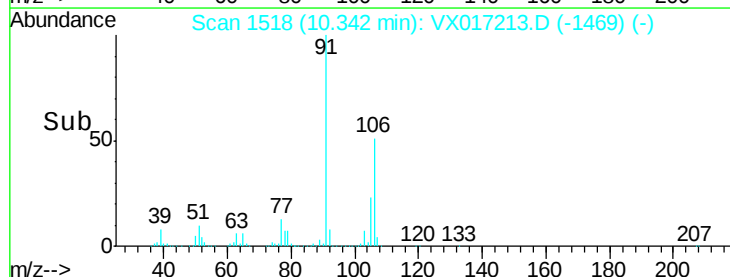
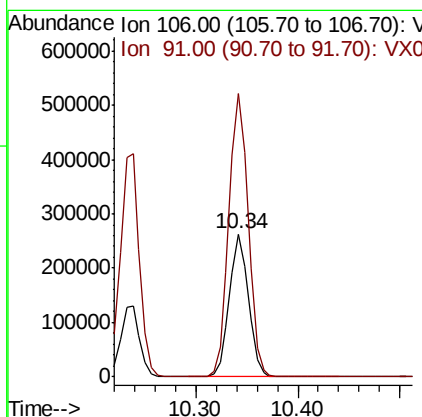
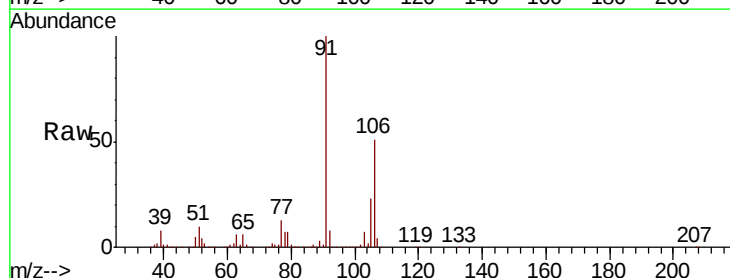
Manual Integrations  
APPROVED

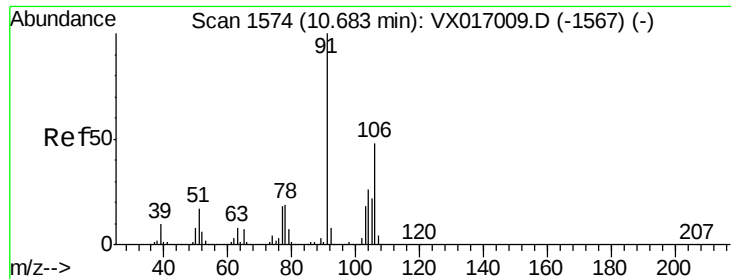
MMDadoda  
7/8/2020 9:31:39 AM



#68  
m/p-Xylenes  
Concen: 59.186 ug/l  
RT: 10.34 min Scan# 1518  
Delta R.T. -0.00 min  
Lab File: VX017213.D  
Acq: 07 Jul 2020 18:54

Tgt Ion: 106 Resp: 339141  
Ion Ratio Lower Upper  
106 100  
91 201.8 158.6 238.0





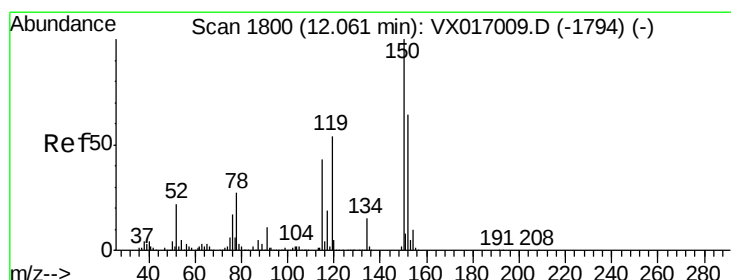
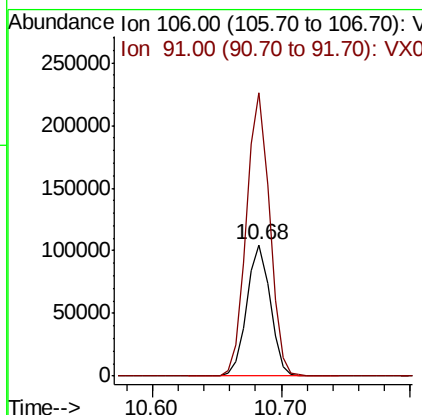
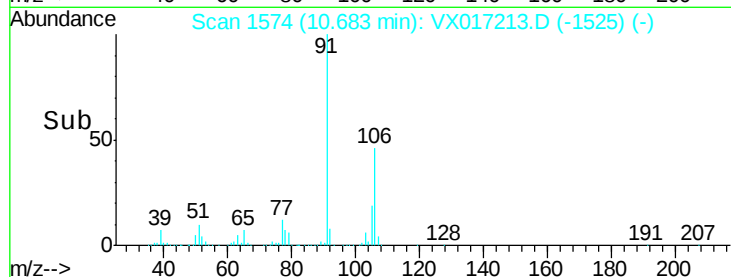
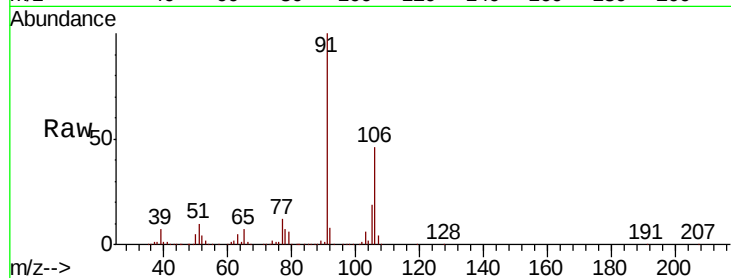
#69  
o-Xylene  
Concen: 24.071 ug/l  
RT: 10.68 min Scan# 1574  
Delta R.T. -0.00 min  
Lab File: VX017213.D  
Acq: 07 Jul 2020 18:54

Instrument :  
MSVOA\_X  
ClientSampled :  
MW-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 213.7 | 105.6 | 316.7 |

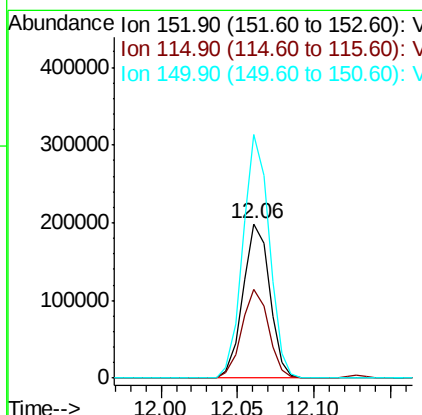
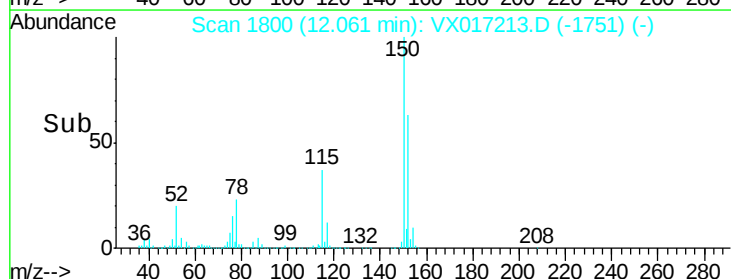
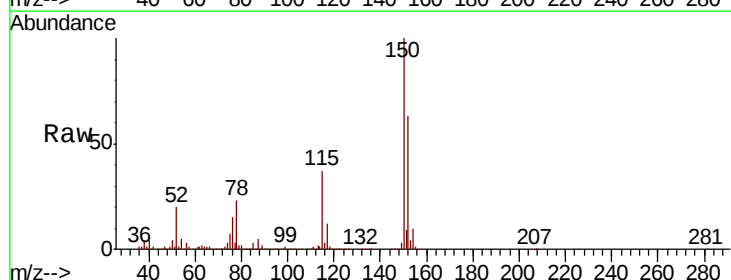
Manual Integrations  
APPROVED

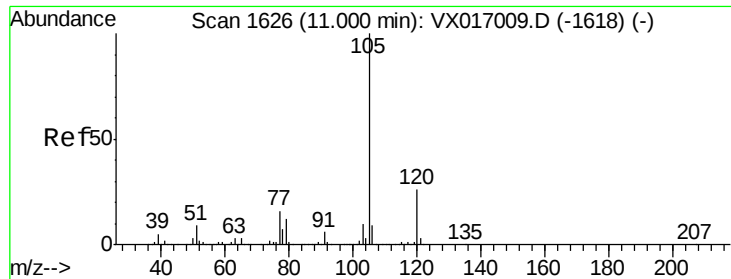
MMDadoda  
7/8/2020 9:31:39 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX017213.D  
Acq: 07 Jul 2020 18:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.4  | 40.9  | 122.7 |
| 150     | 155.1 | 0.0   | 351.6 |





#73

Isopropylbenzene

Concen: 4.781 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

Instrument :

MSVOA\_X

ClientSampleId :

MW-3

Tot Ion: 105 Resp: 75649

Ion Ratio Lower Upper

105 100

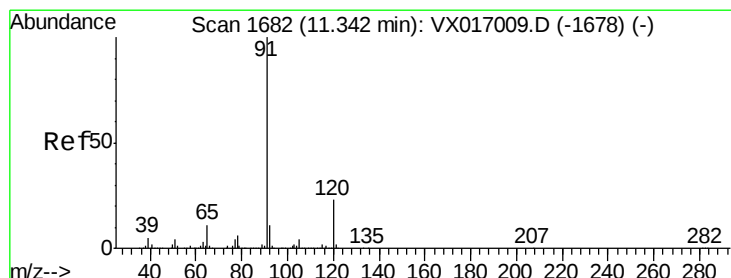
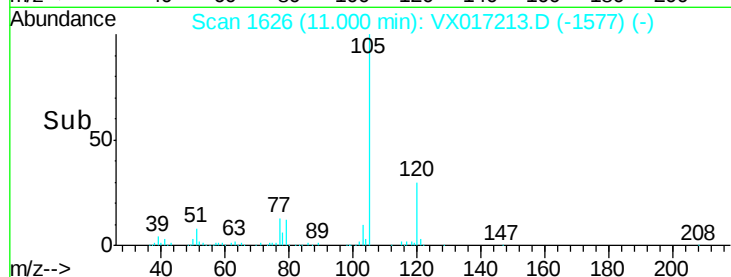
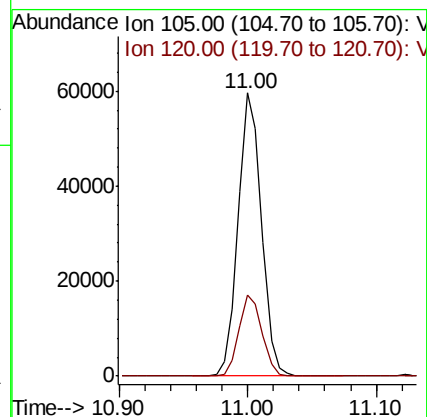
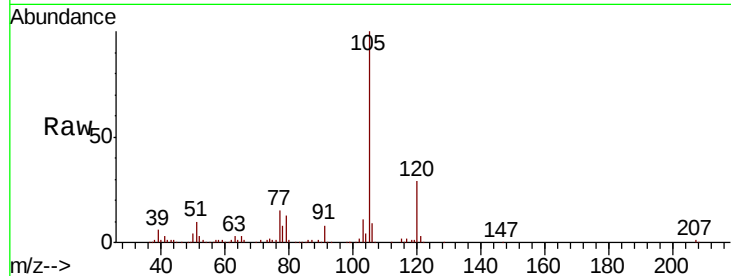
120 28.2 13.4 40.2

Manual Integrations

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7/8/2020 9:31:39 AM



#78

n-propylbenzene

Concen: 7.641 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX017213.D

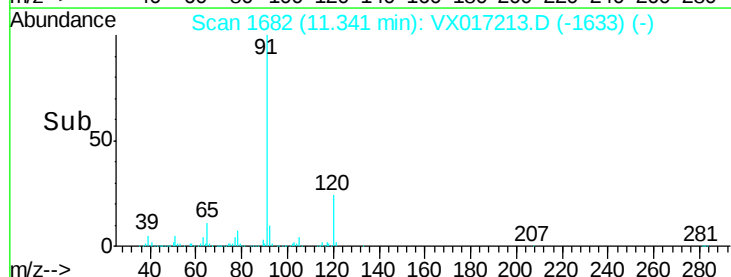
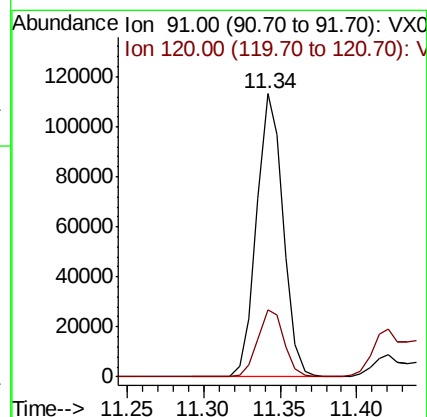
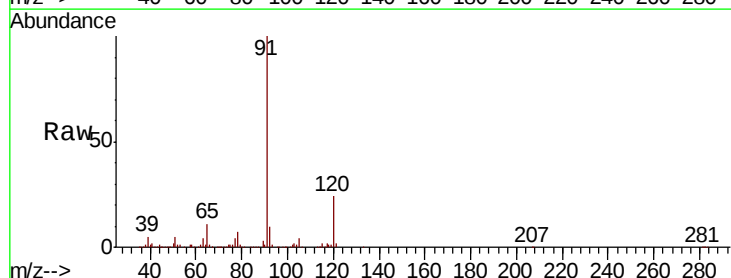
Acq: 07 Jul 2020 18:54

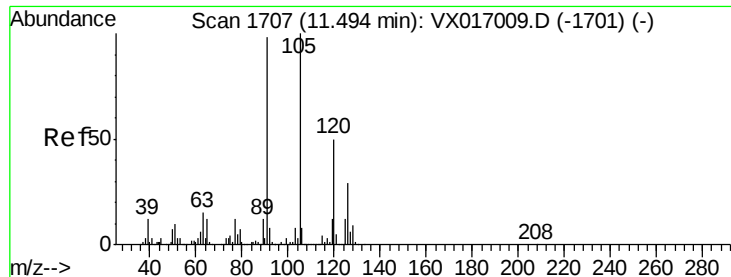
Tgt Ion: 91 Resp: 136714

Ion Ratio Lower Upper

91 100

120 23.8 11.9 35.9





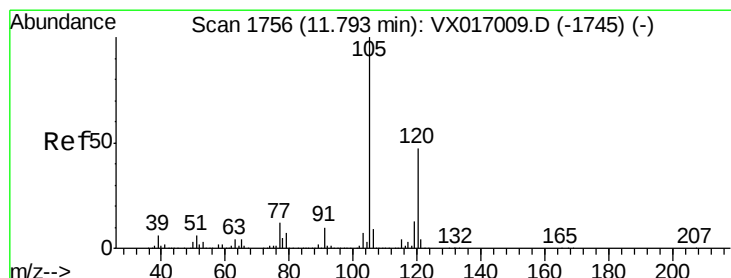
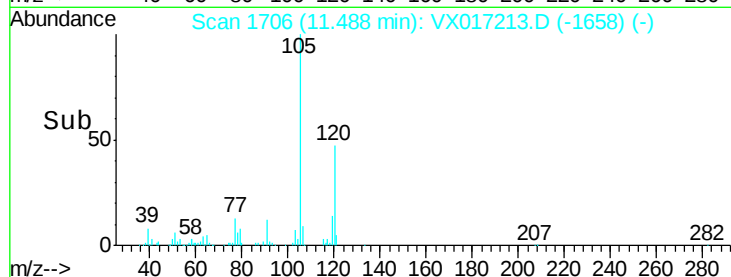
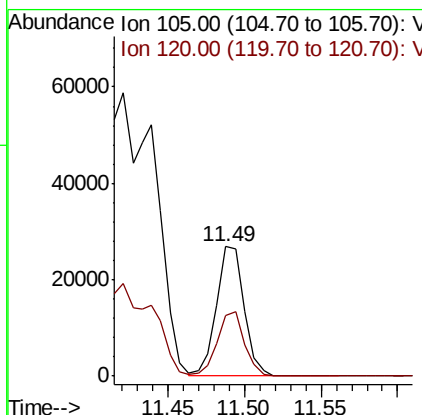
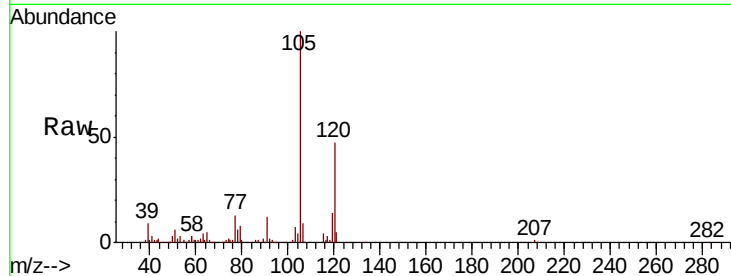
#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.585 ug/l  
 RT: 11.49 min Scan# 1706  
 Delta R.T. -0.01 min  
 Lab File: VX017213.D  
 Acq: 07 Jul 2020 18:54

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-3

Tot Ion:105 Resp: 33924  
 Ion Ratio Lower Upper  
 105 100  
 120 49.2 24.9 74.6

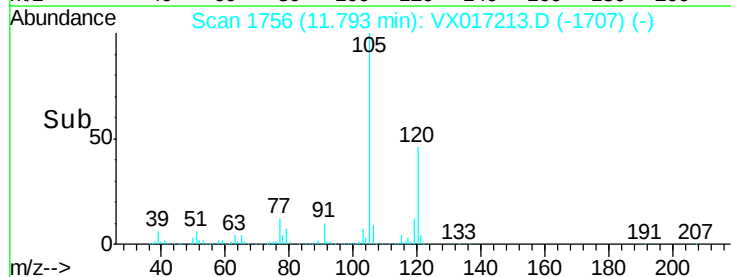
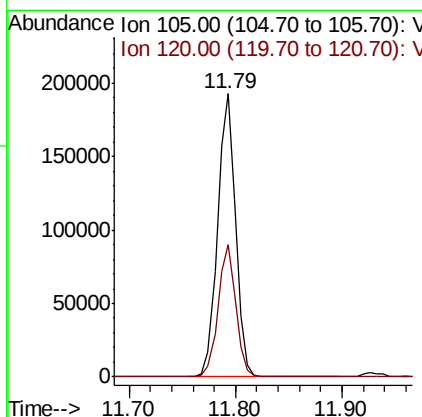
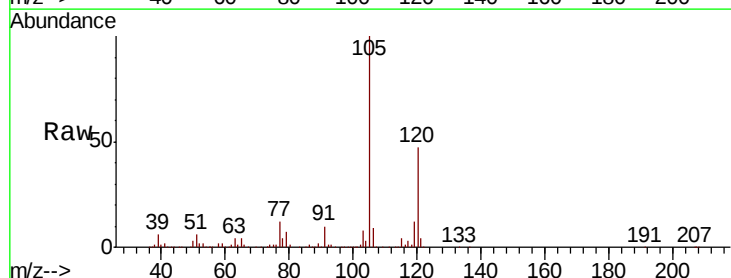
Manual Integrations  
 APPROVED

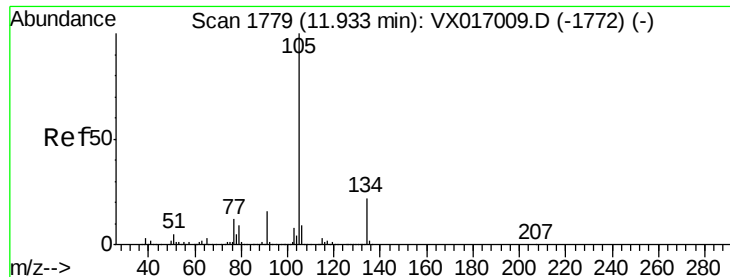
MMDadoda  
 7/8/2020 9:31:39 AM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 16.832 ug/l  
 RT: 11.79 min Scan# 1756  
 Delta R.T. -0.00 min  
 Lab File: VX017213.D  
 Acq: 07 Jul 2020 18:54

Tgt Ion:105 Resp: 224111  
 Ion Ratio Lower Upper  
 105 100  
 120 46.1 22.9 68.5





#85

sec-Butylbenzene

Concen: 0.266 ug/l m

RT: 11.93 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

Instrument :

MSVOA\_X

ClientSampled :

MW-3

Tot Ion:105 Resp: 4029

Ion Ratio Lower Upper

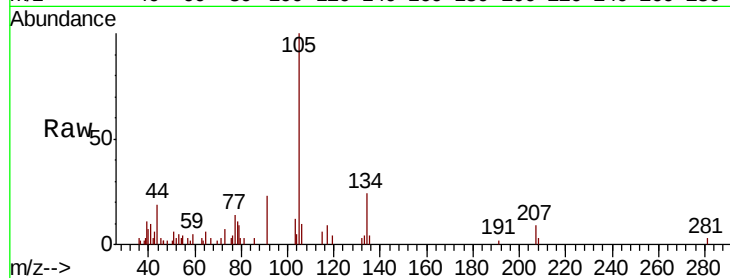
105 100

134 0.7 10.5 31.6#

Manual Integrations  
APPROVED

MMDadoda

7/8/2020 9:31:39 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.93

3000

2500

2000

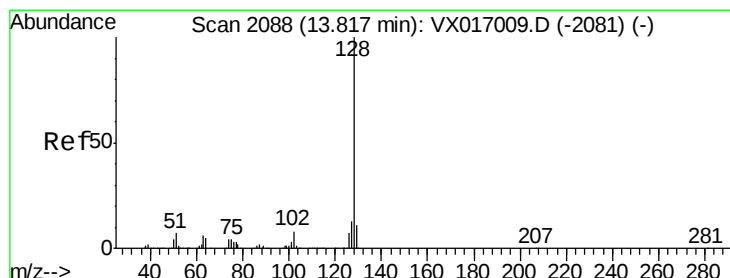
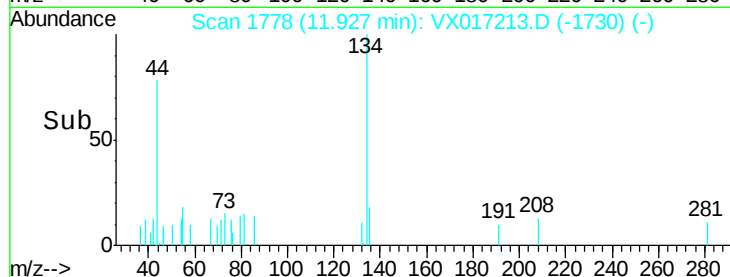
1500

1000

500

0

Time-->



#95

Naphthalene

Concen: 5.680 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017213.D

Acq: 07 Jul 2020 18:54

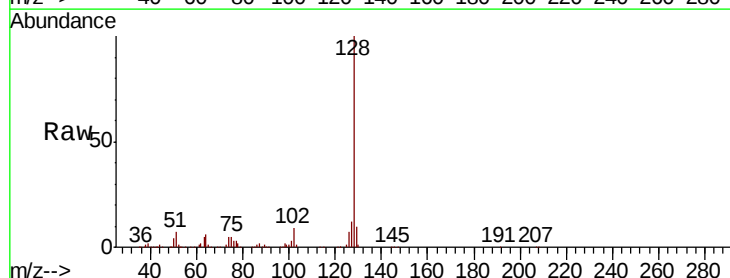
Tgt Ion:128 Resp: 87015

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.82

100000

80000

60000

40000

20000

0

Time-->

