

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE071417\  
 Data File : BE093473.D  
 Acq On : 14 Jul 2017 17:22  
 Operator : SJ/JU  
 Sample : I4153-07MS  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EFFLUENT-20170710MS

Manual Integrations  
 APPROVED

mohammad  
 7/17/2017 4:00:13 PM

Quant Time: Jul 17 02:15:16 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE070217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 03 06:40:23 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.94  | 152  | 4450     | 0.40  | ng    | 0.00        |
| 7) Naphthalene-d8              | 10.72 | 136  | 21117    | 0.40  | ng    | 0.00        |
| 13) Acenaphthene-d10           | 14.54 | 164  | 13175    | 0.40  | ng    | 0.00        |
| 19) Phenanthrene-d10           | 17.27 | 188  | 26486    | 0.40  | ng    | 0.00        |
| 27) Chrysene-d12               | 21.42 | 240  | 38998    | 0.40  | ng    | -0.01       |
| 34) Perylene-d12               | 23.93 | 264  | 32751    | 0.40  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |       |       |             |
| 4) 2-Fluorophenol              | 5.53  | 112  | 2211     | 0.16  | ng    | 0.00        |
| 5) Phenol-d6                   | 7.10  | 99   | 2088     | 0.11  | ng    | 0.00        |
| 8) Nitrobenzene-d5             | 9.08  | 82   | 5437     | 0.40  | ng    | 0.00        |
| 11) 2-Methylnaphthalene-d10    | 12.30 | 152  | 11994    | 0.36  | ng    | 0.00        |
| 14) 2,4,6-Tribromophenol       | 16.03 | 330  | 978      | 0.24  | ng    | 0.00        |
| 15) 2-Fluorobiphenyl           | 13.18 | 172  | 20387    | 0.40  | ng    | 0.00        |
| 25) Fluoranthene-d10           | 19.28 | 212  | 147603   | 0.46  | ng    | 0.00        |
| 29) Terphenyl-d14              | 19.87 | 244  | 28722    | 0.41  | ng    | 0.00        |
| Target Compounds               |       |      |          |       |       |             |
| 2) 1,4-Dioxane                 | 3.45  | 88   | 4254     | 0.452 | ng    | Qvalue # 71 |
| 3) n-Nitrosodimethylamine      | 3.76  | 42   | 963      | 0.265 | ng    | # 86        |
| 6) bis(2-Chloroethyl)ether     | 7.35  | 93   | 5310     | 0.356 | ng    | # 96        |
| 9) Naphthalene                 | 10.77 | 128  | 77889    | 0.352 | ng    | # 73        |
| 10) Hexachlorobutadiene        | 11.06 | 225  | 2772     | 0.330 | ng    | 99          |
| 12) 2-Methylnaphthalene        | 12.38 | 142  | 14065    | 0.379 | ng    | 96          |
| 16) Acenaphthylene             | 14.26 | 152  | 20557    | 0.375 | ng    | # 87        |
| 17) Acenaphthene               | 14.60 | 154  | 15120    | 0.376 | ng    | 99          |
| 18) Fluorene                   | 15.58 | 166  | 21676    | 0.393 | ng    | # 88        |
| 20) 4-Bromophenyl-phenylether  | 16.45 | 248  | 9170     | 0.631 | ng    | # 1         |
| 21) Hexachlorobenzene          | 16.58 | 284  | 7754     | 0.495 | ng    | # 100       |
| 22) Pentachlorophenol          | 16.91 | 266  | 1183     | 0.581 | ng    | # 79        |
| 23) Phenanthrene               | 17.30 | 178  | 40457    | 0.420 | ng    | 96          |
| 24) Anthracene                 | 17.40 | 178  | 23086m   | 0.391 | ng    |             |
| 26) Fluoranthene               | 19.31 | 202  | 43177    | 0.477 | ng    | 99          |
| 28) Pyrene                     | 19.67 | 202  | 43231    | 0.394 | ng    | # 98        |
| 30) Benzo(a)anthracene         | 21.40 | 228  | 39543    | 0.376 | ng    | 95          |
| 31) Chrysene                   | 21.46 | 228  | 41662    | 0.378 | ng    | 96          |
| 32) Bis(2-ethylhexyl)phthalate | 21.33 | 149  | 59012    | 0.389 | ng    | # 67        |
| 33) Indeno(1,2,3-cd)pyrene     | 26.57 | 276  | 39922    | 0.413 | ng    | 94          |
| 35) Benzo(b)fluoranthene       | 23.16 | 252  | 39831    | 0.377 | ng    | # 96        |
| 36) Benzo(k)fluoranthene       | 23.21 | 252  | 38592m   | 0.369 | ng    |             |
| 37) Benzo(a)pyrene             | 23.82 | 252  | 35197    | 0.380 | ng    | 95          |
| 38) Dibenzo(a,h)anthracene     | 26.60 | 278  | 33346    | 0.371 | ng    | # 90        |
| 39) Benzo(g,h,i)perylene       | 27.39 | 276  | 33734    | 0.371 | ng    | 92          |

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

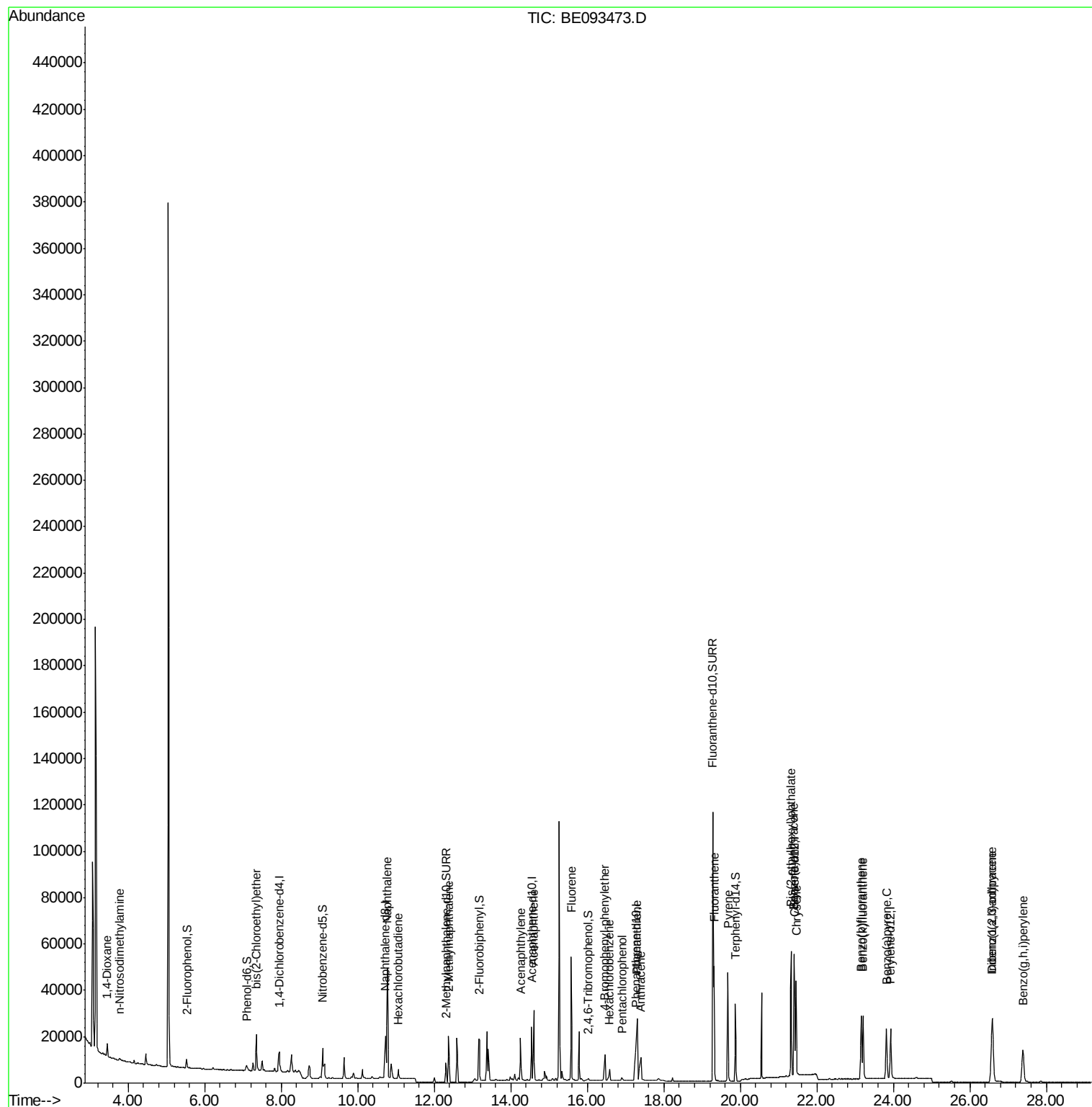
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE071417\  
Data File : BE093473.D  
Acq On : 14 Jul 2017 17:22  
Operator : SJ/JU  
Sample : I4153-07MS  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

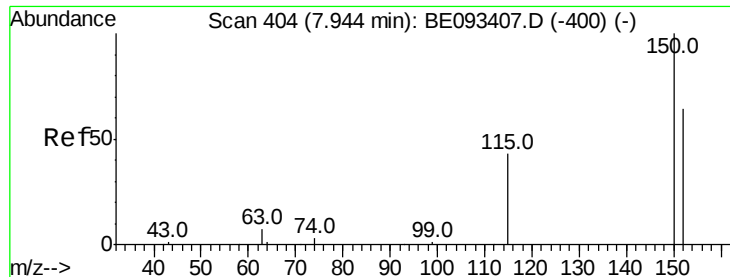
Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

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Quant Time: Jul 17 02:15:16 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE070217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 03 06:40:23 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.94 min Scan# 404

Delta R.T. -0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

Instrument :

BNA\_E

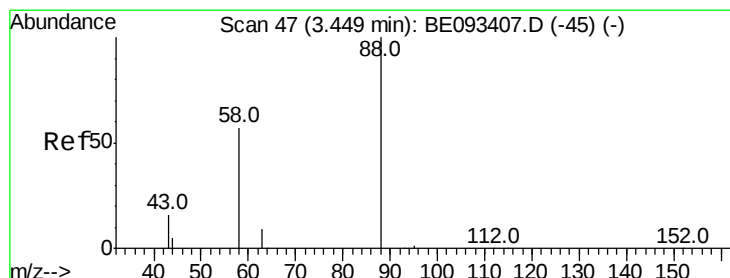
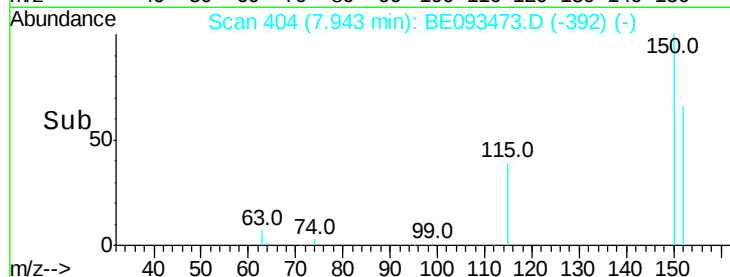
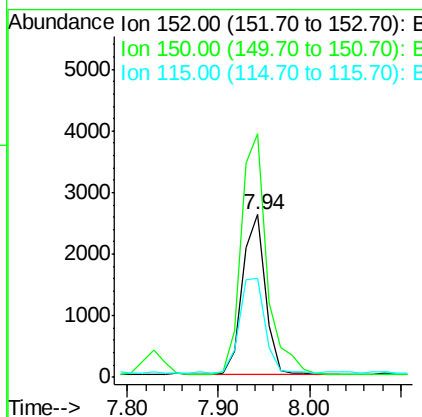
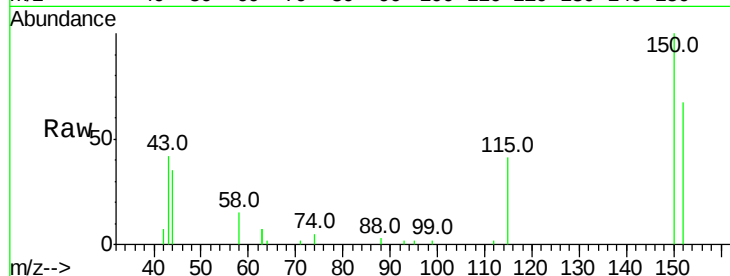
ClientSampleId :

EFFLUENT-20170710MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 4450  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 149.8 | 125.1 | 187.7 |
| 115      | 61.3  | 55.7  | 83.5  |

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#2

1,4-Dioxane

Concen: 0.452 ng

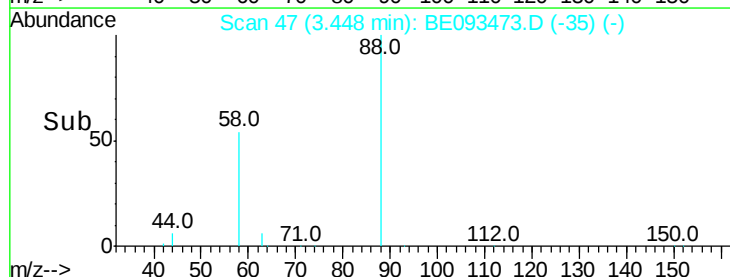
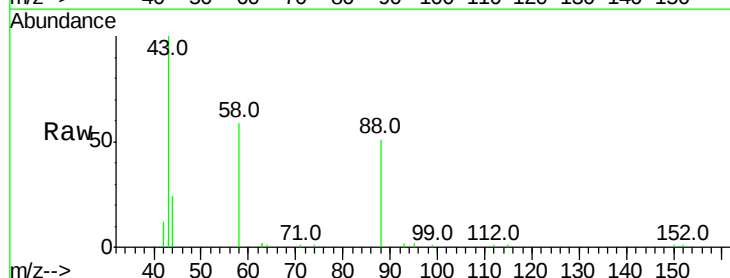
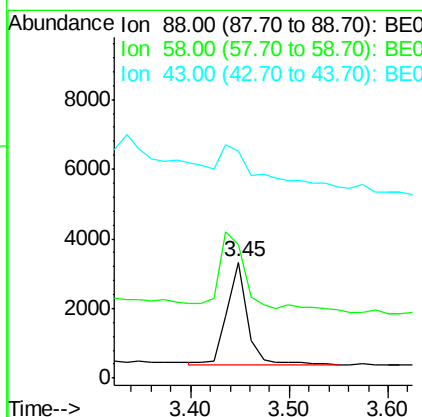
RT: 3.45 min Scan# 47

Delta R.T. -0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 4254  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 87.2  | 62.2  | 93.4  |
| 43       | 69.5  | 23.2  | 34.8# |





#3

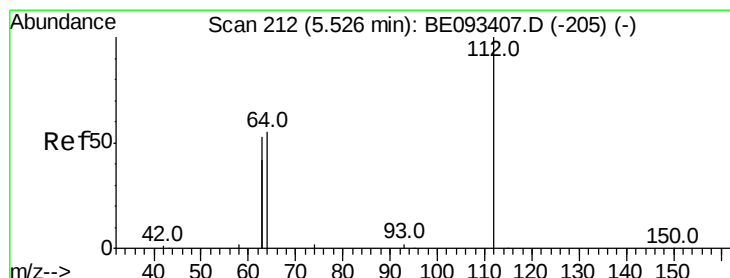
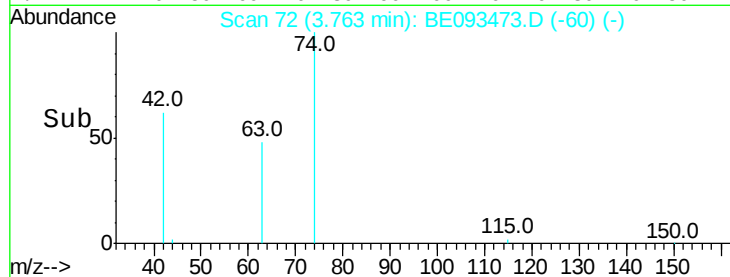
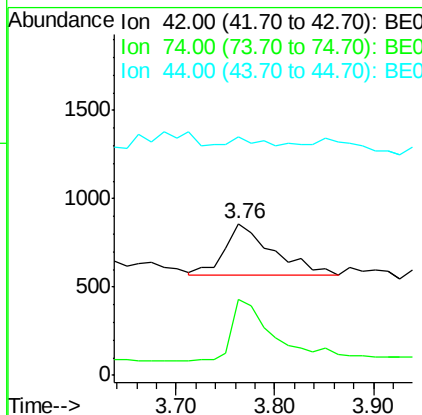
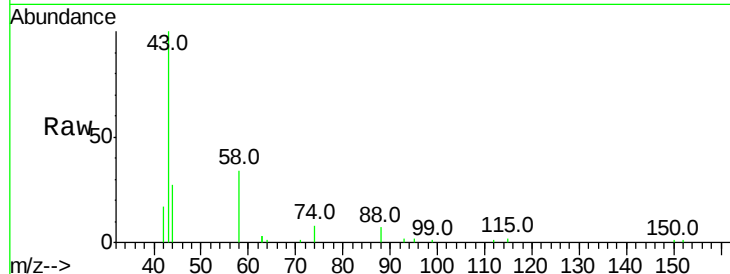
n-Nitrosodimethylamine  
 Concen: 0.265 ng  
 RT: 3.76 min Scan# 72  
 Delta R.T. 0.00 min  
 Lab File: BE093473.D  
 Acq: 14 Jul 2017 17:22

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EFFLUENT-20170710MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 107.5 | 99.1  | 148.7 |
| 44      | 6.3   | 7.4   | 11.2# |

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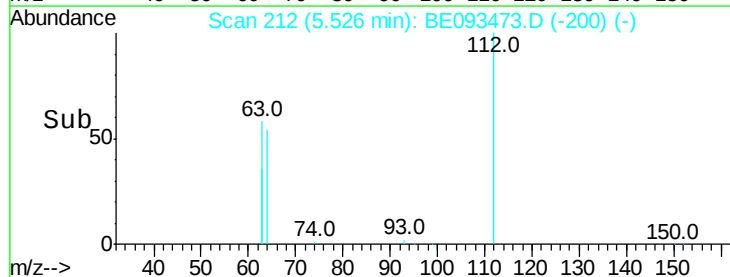
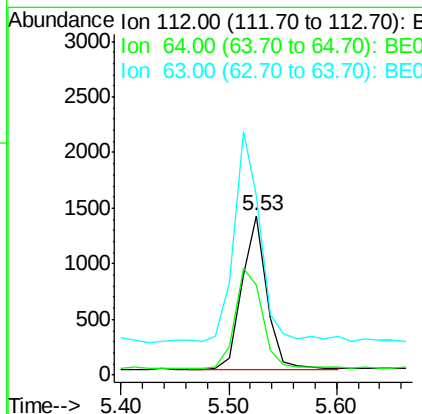
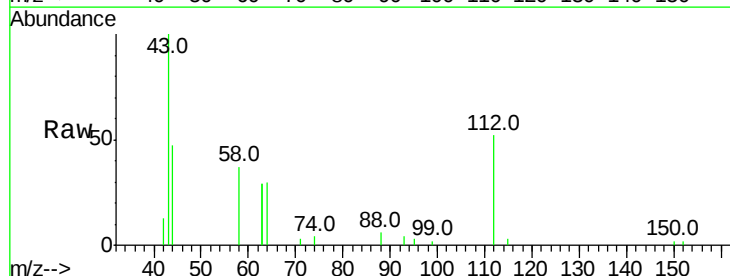
mohammad  
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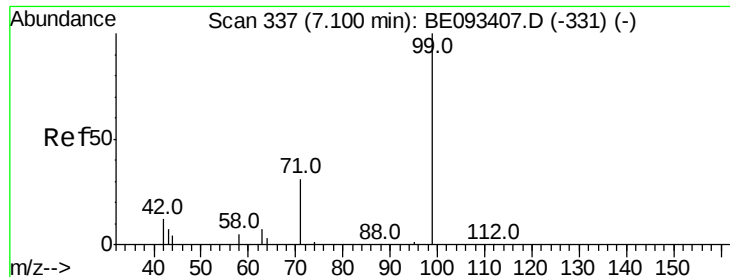


#4

2-Fluorophenol  
 Concen: 0.165 ng  
 RT: 5.53 min Scan# 212  
 Delta R.T. -0.00 min  
 Lab File: BE093473.D  
 Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 72.3  | 56.4  | 84.6  |
| 63      | 150.5 | 29.3  | 43.9# |





#5

Phenol-d6

Concen: 0.105 ng

RT: 7.10 min Scan# 337

Delta R.T. -0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

Instrument :

BNA\_E

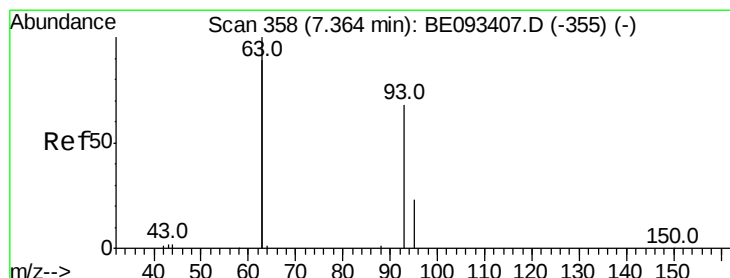
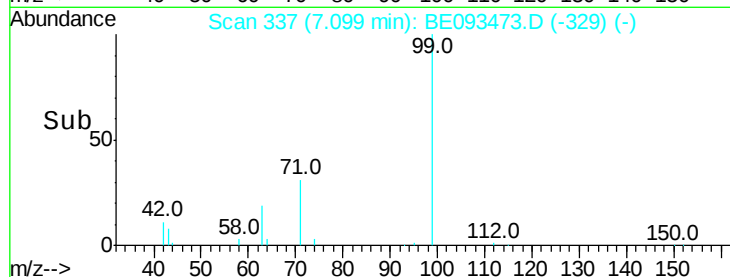
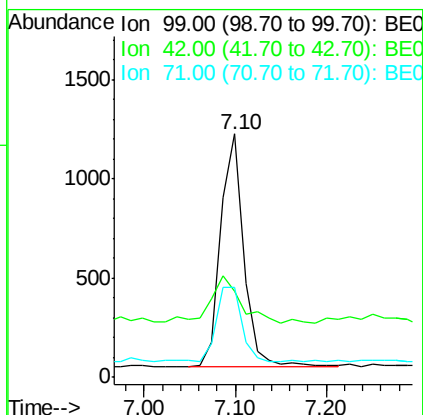
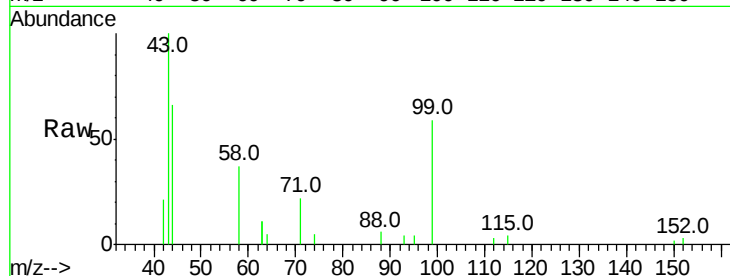
ClientSampleId :

EFFLUENT-20170710MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 2088  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 26.6  | 0.0   | 0.0#  |
| 71       | 34.7  | 0.0   | 0.0#  |

Manual Integrations  
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#6

bis(2-Chloroethyl)ether

Concen: 0.356 ng

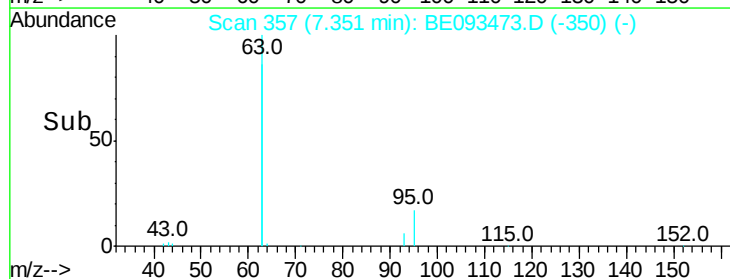
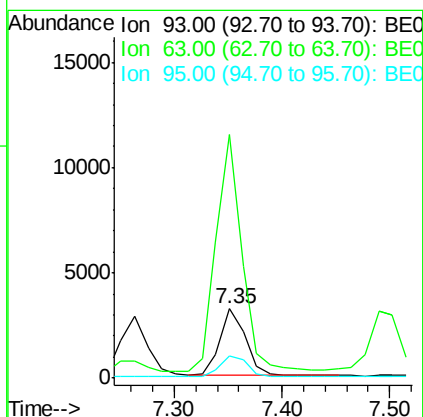
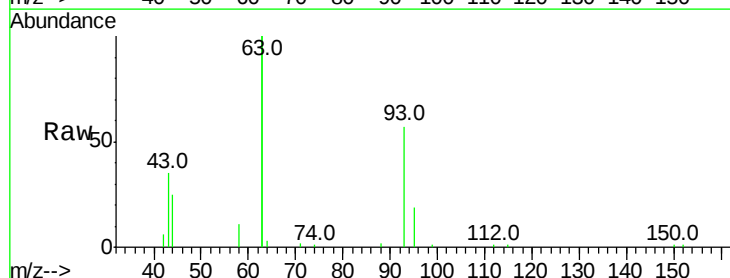
RT: 7.35 min Scan# 357

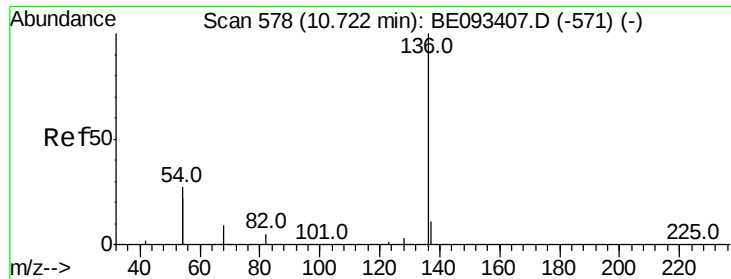
Delta R.T. -0.01 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 5310  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 350.6 | 0.0   | 0.0#  |
| 95       | 33.7  | 25.4  | 38.0  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.72 min Scan# 578

Delta R.T. 0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

Instrument :

BNA\_E

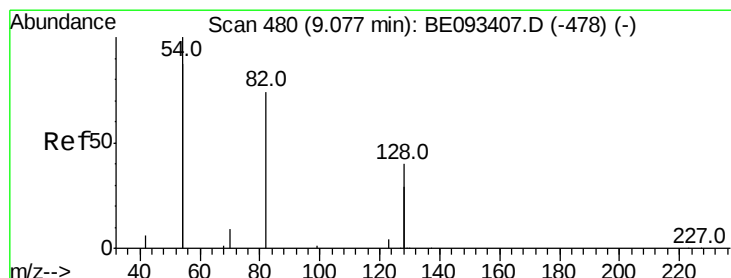
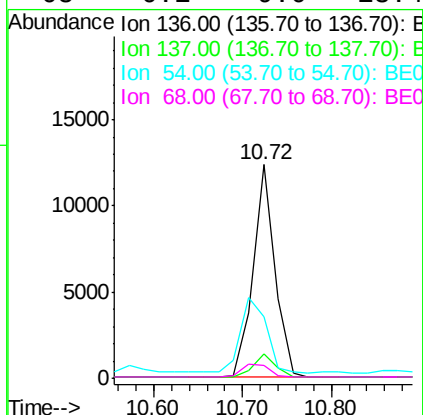
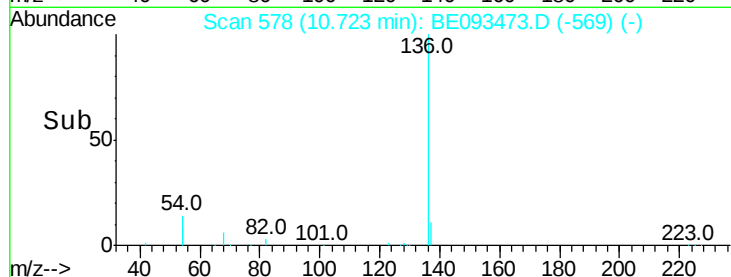
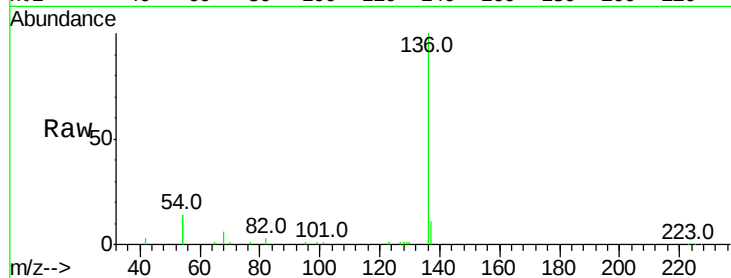
ClientSampleId :

EFFLUENT-20170710MS

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 136     | 100   | 21117 |       |       |
| 137     | 11.2  | 9.8   | 14.8  |       |
| 54      | 28.8  | 10.3  | 15.5# |       |
| 68      | 6.1   | 9.0   | 13.4# |       |

Manual Integrations  
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#8

Nitrobenzene-d5

Concen: 0.403 ng

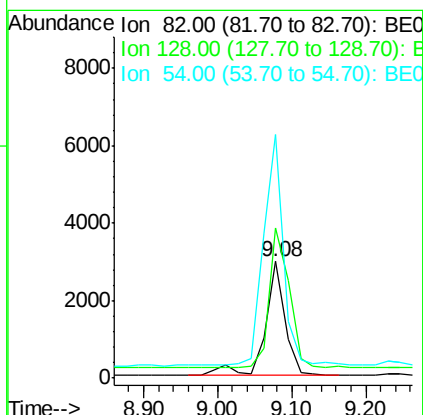
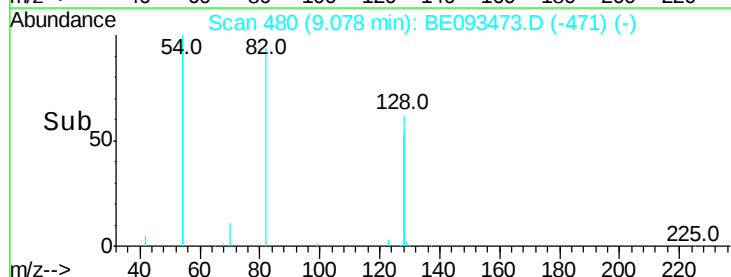
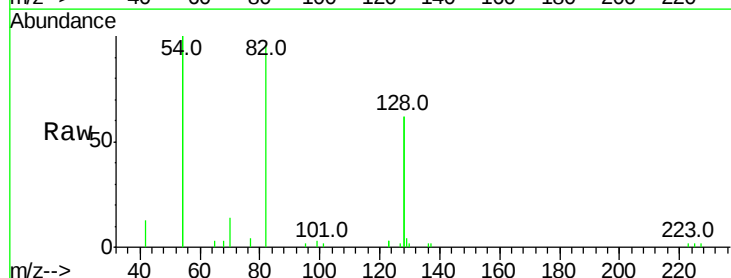
RT: 9.08 min Scan# 480

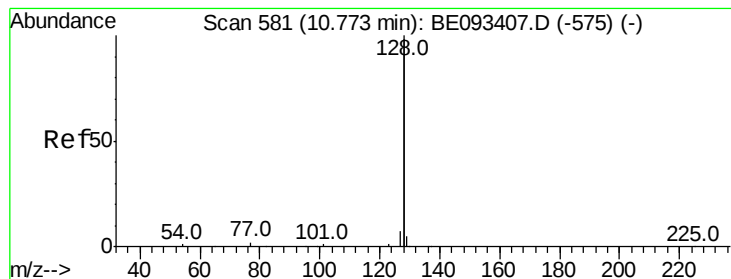
Delta R.T. 0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   | 5437 |       |       |
| 128     | 128.3 | 17.0 | 25.4# |       |
| 54      | 208.5 | 53.8 | 80.6# |       |





#9

Naphthalene

Concen: 0.352 ng

RT: 10.77 min Scan# 581

Delta R.T. 0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

Instrument :

BNA\_E

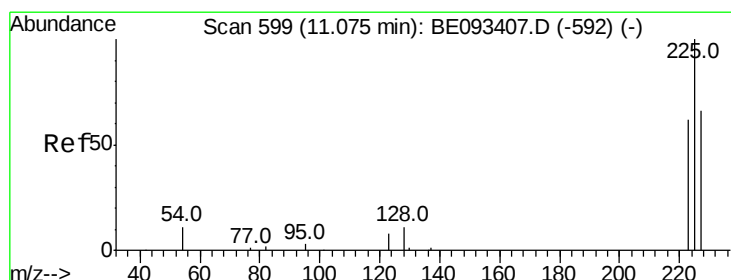
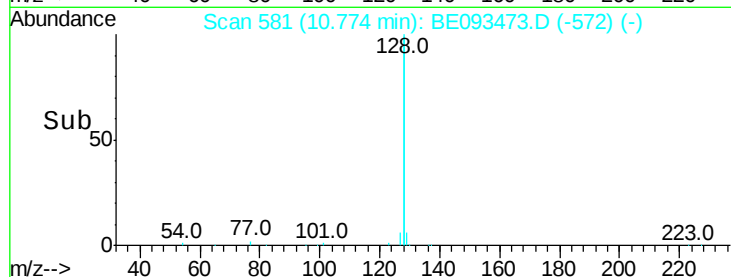
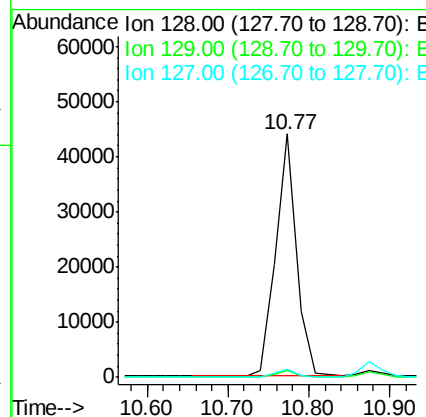
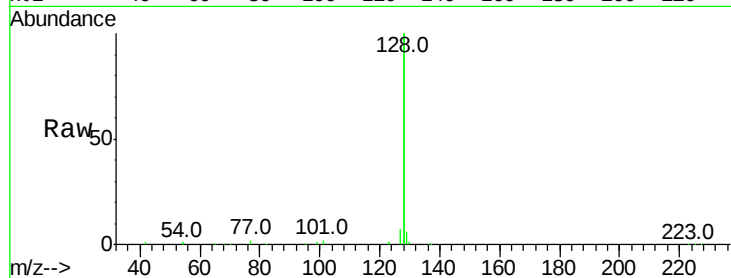
ClientSampleId :

EFFLUENT-20170710MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 77889 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 2.9   | 11.4  | 17.0# |
| 127       | 3.3   | 11.2  | 16.8# |

Manual Integrations  
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#10

Hexachlorobutadiene

Concen: 0.330 ng

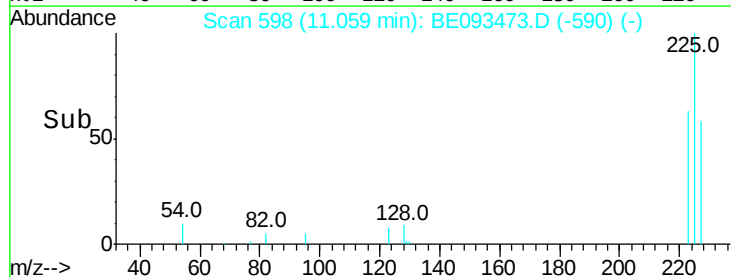
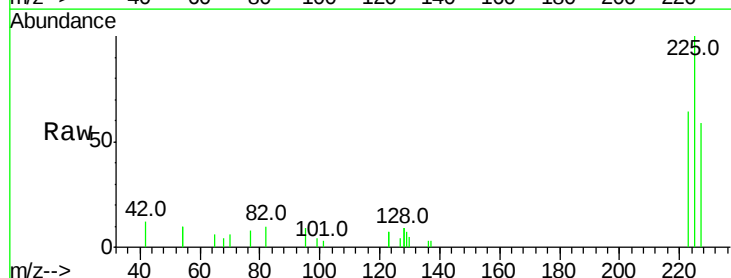
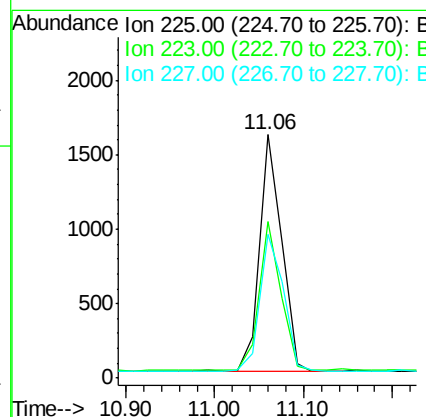
RT: 11.06 min Scan# 598

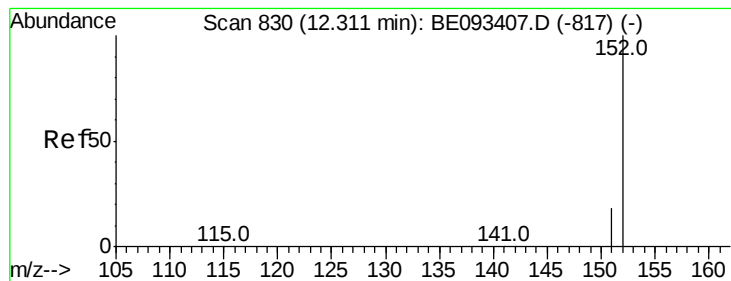
Delta R.T. -0.02 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 2772 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 61.9  | 49.7  | 74.5 |
| 227       | 61.0  | 50.3  | 75.5 |





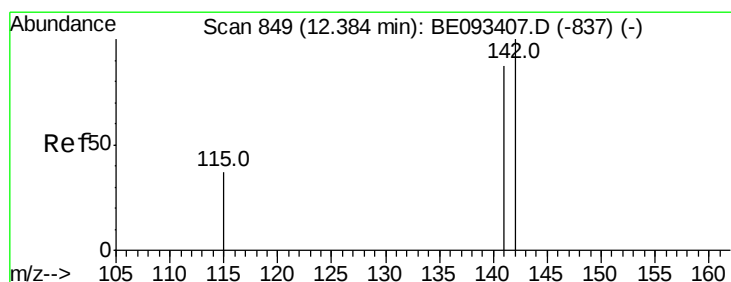
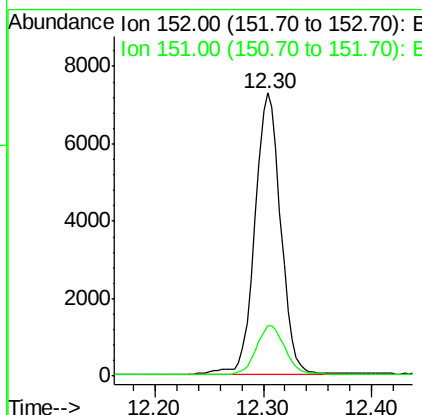
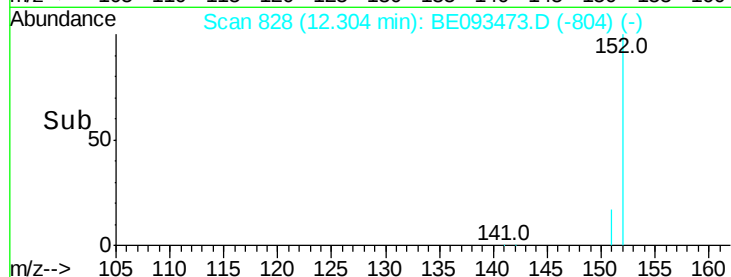
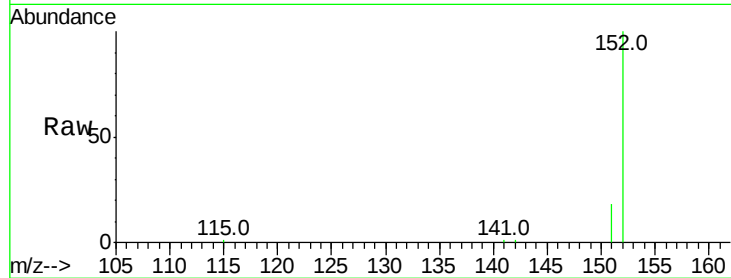
#11  
2-Methylnaphthalene-d10  
Concen: 0.356 ng  
RT: 12.30 min Scan# 828  
Delta R.T. -0.01 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

Tot Ion:152 Resp: 11994  
Ion Ratio Lower Upper  
152 100  
151 18.8 15.1 22.7

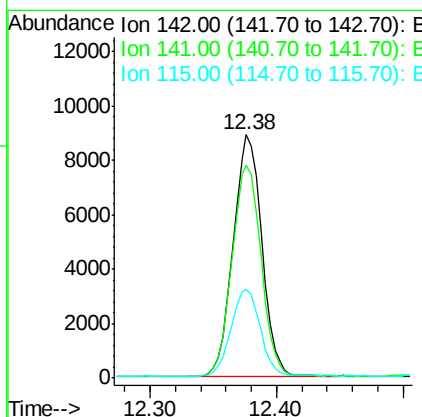
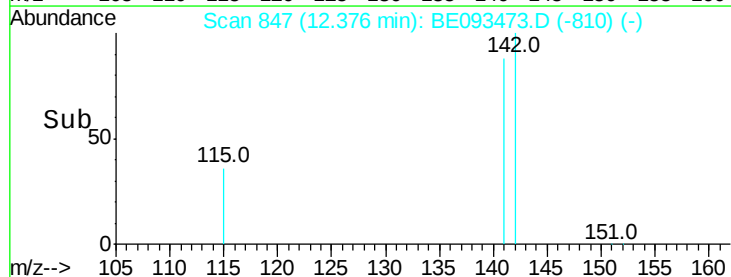
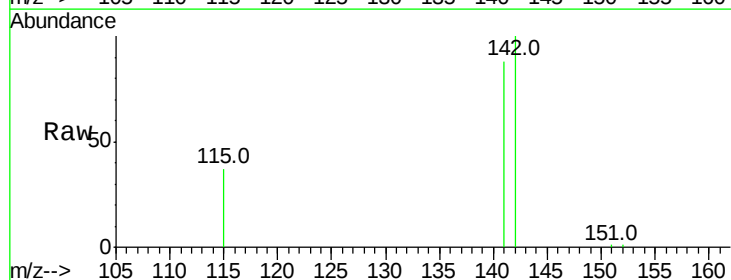
Manual Integrations  
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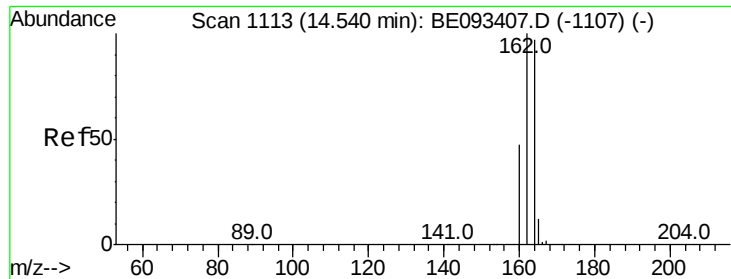
mohammad  
7/17/2017 4:00:13 PM



#12  
2-Methylnaphthalene  
Concen: 0.379 ng  
RT: 12.38 min Scan# 847  
Delta R.T. -0.01 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Tgt Ion:142 Resp: 14065  
Ion Ratio Lower Upper  
142 100  
141 87.6 72.6 108.8  
115 36.7 32.2 48.2





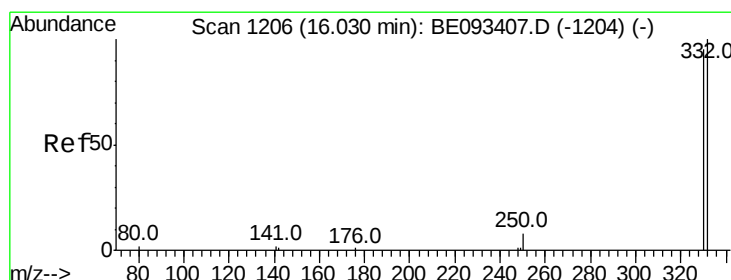
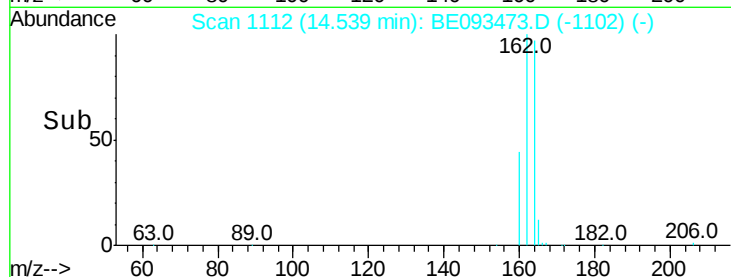
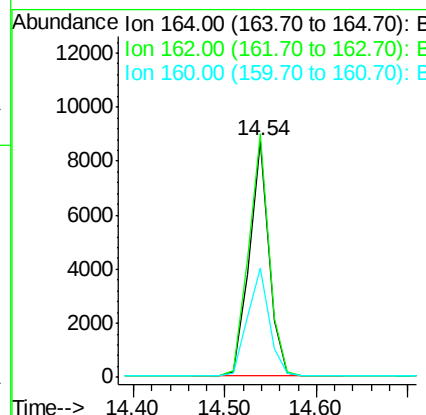
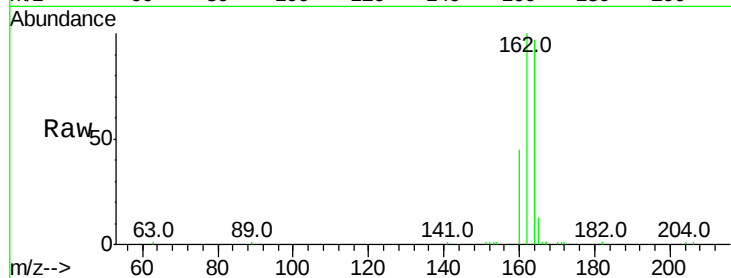
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.54 min Scan# 1112  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.2 | 84.6  | 127.0 |
| 160     | 46.1  | 41.8  | 62.6  |

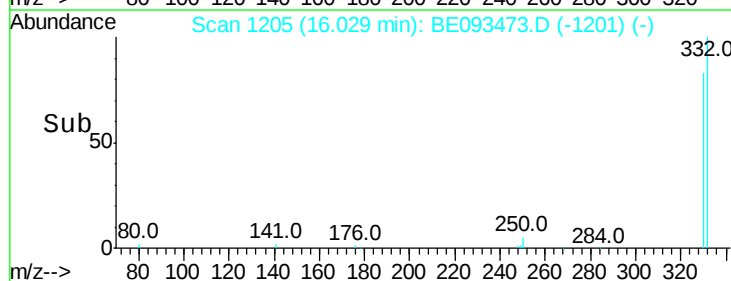
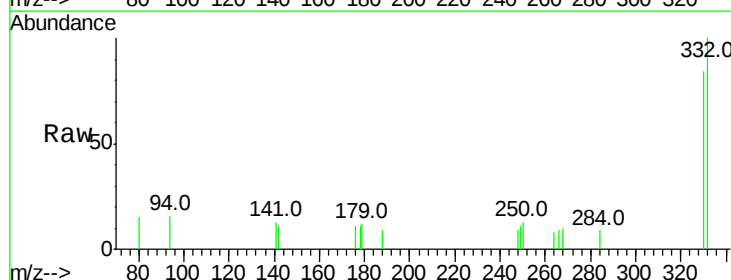
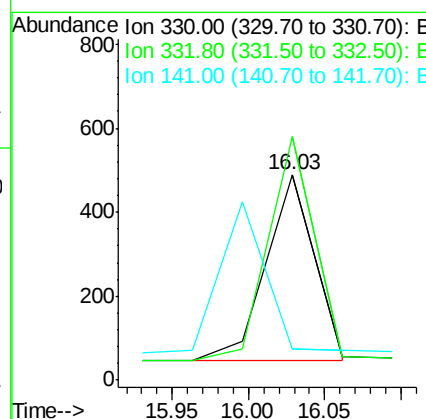
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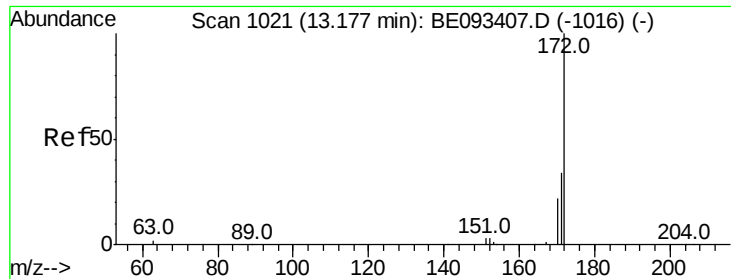
mohammad  
7/17/2017 4:00:13 PM



#14  
2,4,6-Tribromophenol  
Concen: 0.236 ng  
RT: 16.03 min Scan# 1205  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 114.4 | 77.7  | 116.5 |
| 141     | 0.0   | 56.2  | 84.4# |





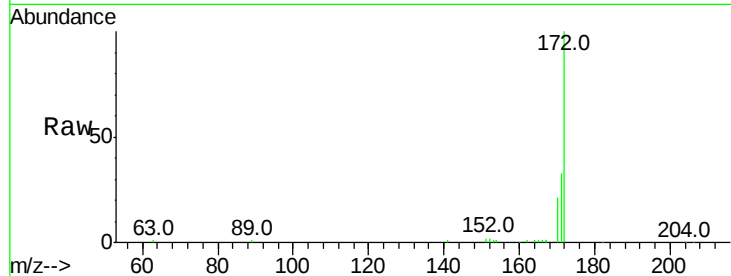
#15  
2-Fluorobiphenyl  
Concen: 0.399 ng  
RT: 13.18 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

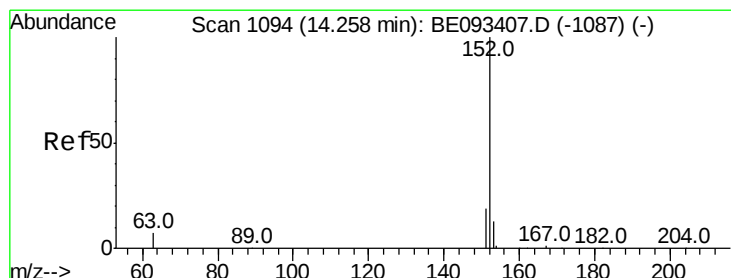
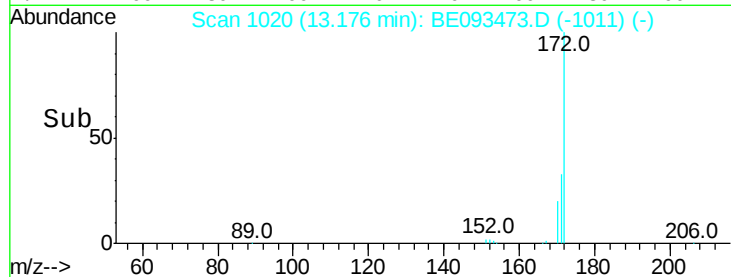
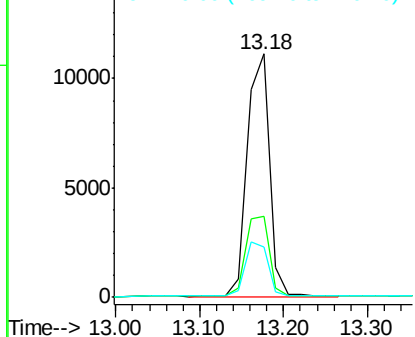
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.0  | 29.8  | 44.6  |
| 170     | 20.5  | 20.7  | 31.1# |

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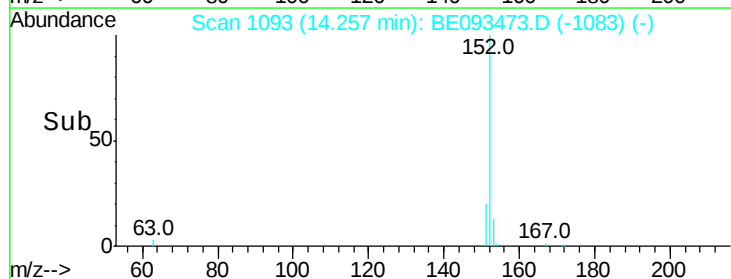
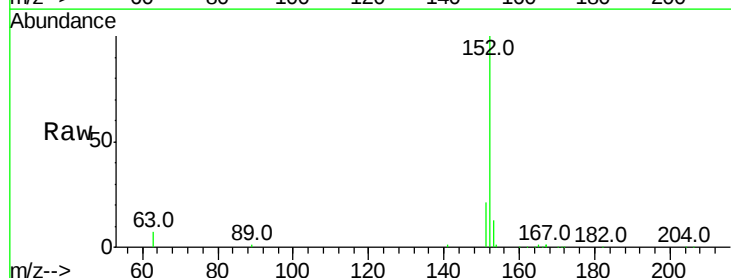
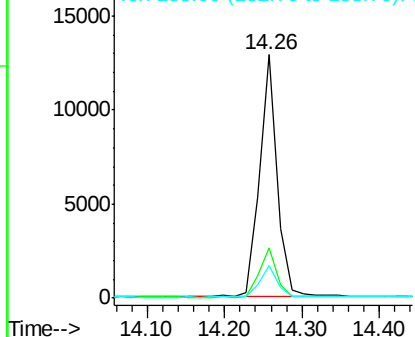
Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

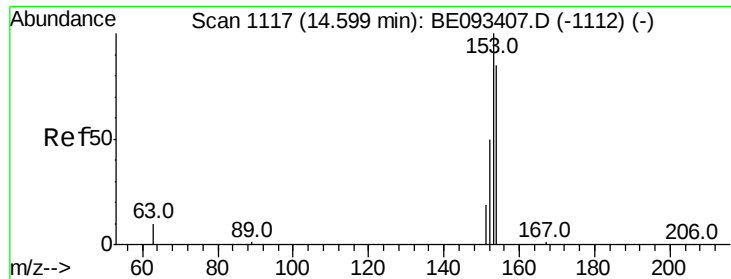


#16  
Acenaphthylene  
Concen: 0.375 ng  
RT: 14.26 min Scan# 1093  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 4.0   | 6.0#  |
| 153     | 13.1  | 10.3  | 15.5  |

Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





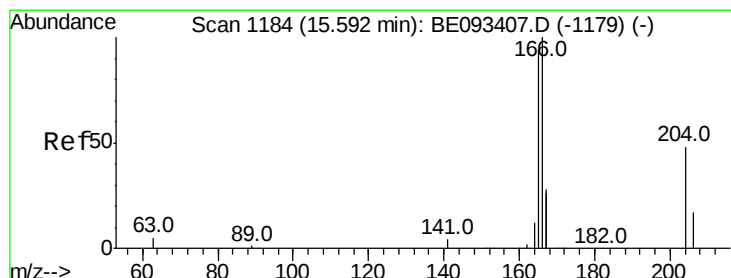
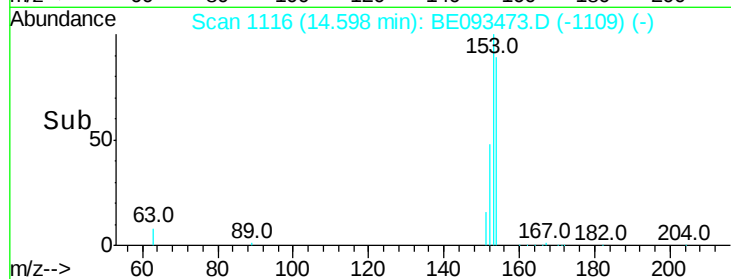
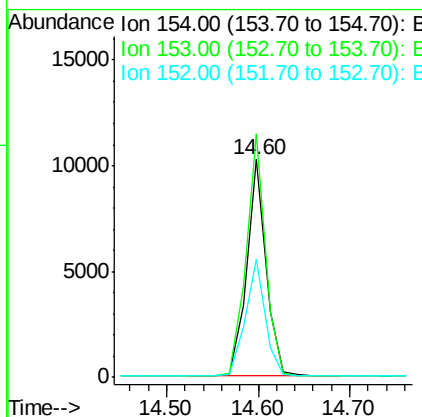
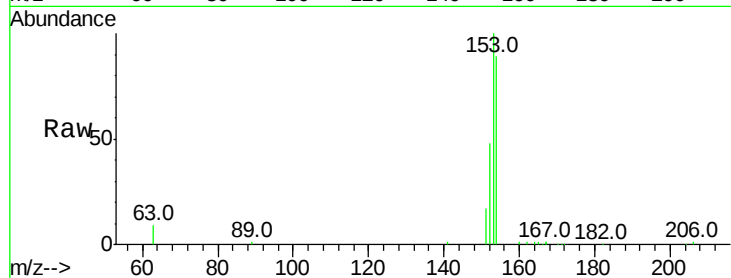
#17  
Acenaphthene  
Concen: 0.376 ng  
RT: 14.60 min Scan# 1116  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 112.6 | 91.2  | 136.8 |
| 152     | 54.9  | 44.8  | 67.2  |

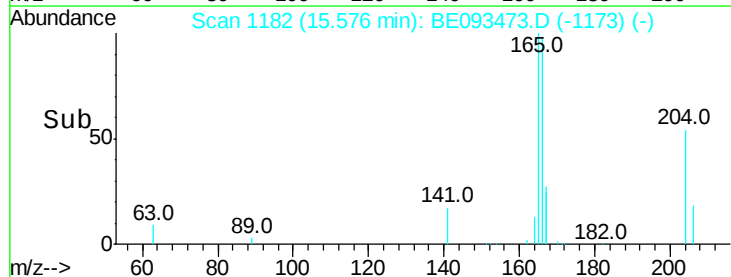
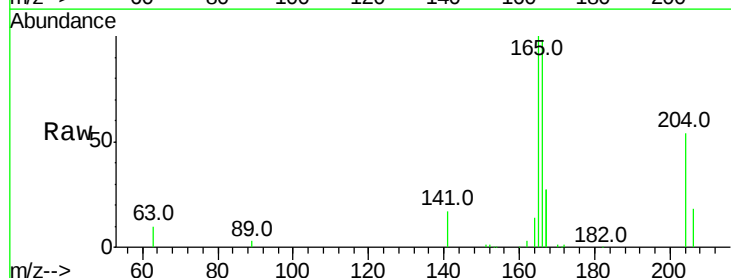
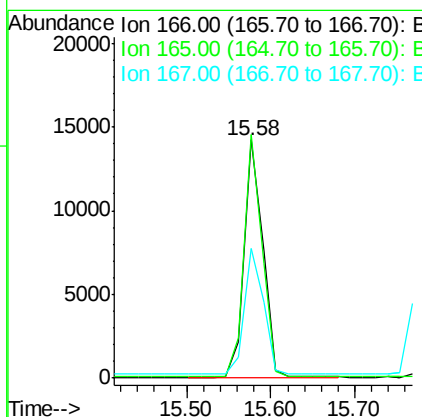
Manual Integrations  
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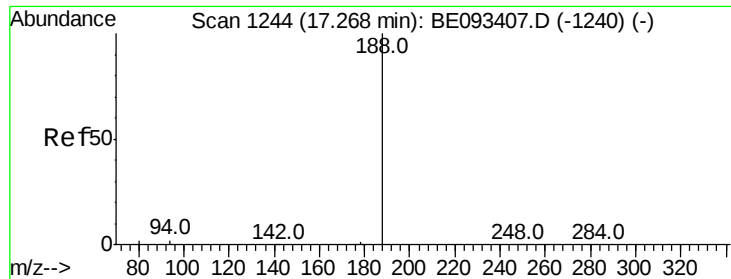
mohammad  
7/17/2017 4:00:13 PM



#18  
Fluorene  
Concen: 0.393 ng  
RT: 15.58 min Scan# 1182  
Delta R.T. -0.02 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.5  | 78.6  | 117.8 |
| 167     | 53.8  | 11.1  | 16.7# |





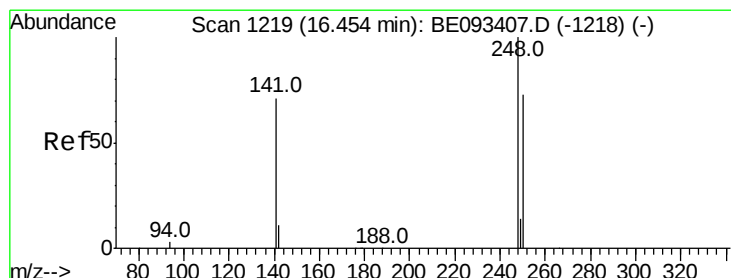
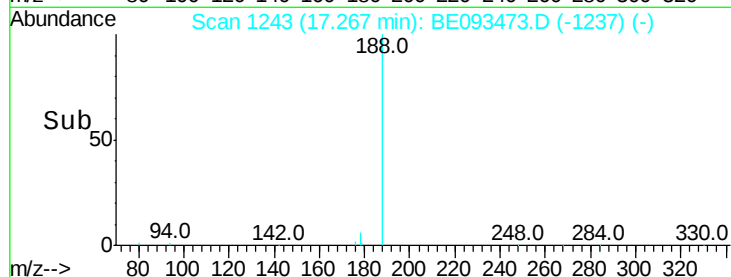
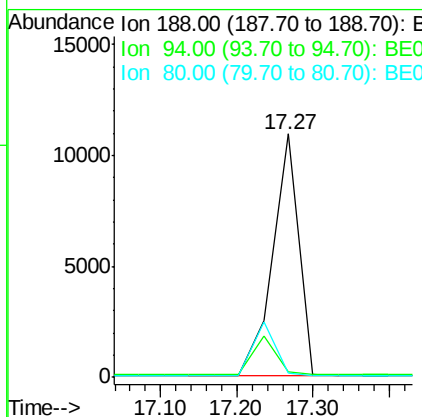
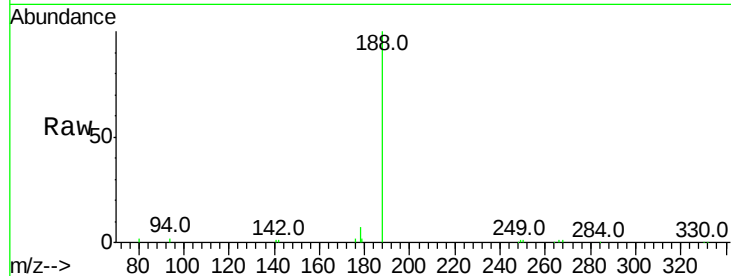
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.27 min Scan# 1243  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 2.3   | 11.3  | 16.9# |
| 80      | 1.8   | 11.7  | 17.5# |

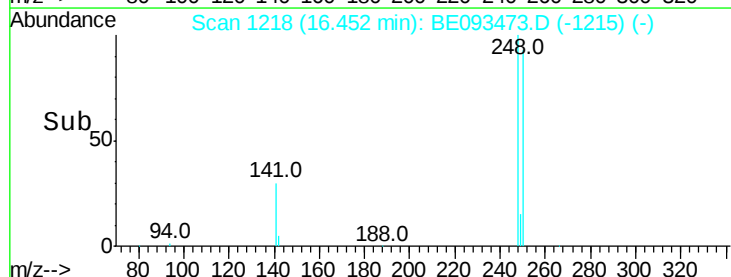
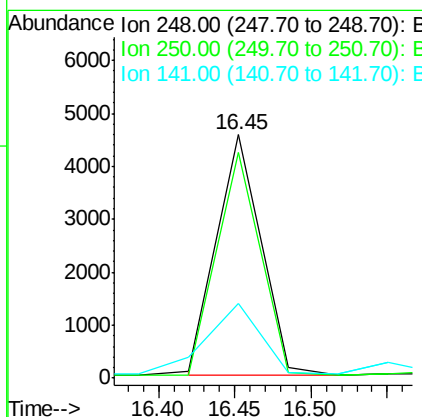
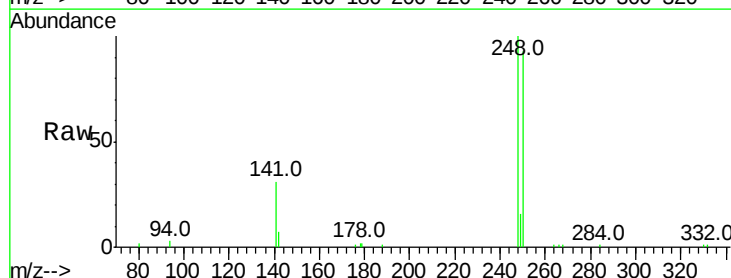
Manual Integrations  
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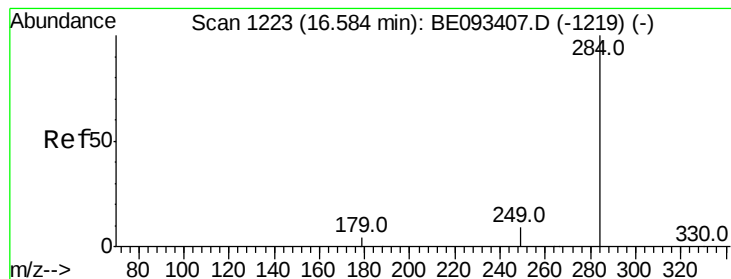
mohammad  
7/17/2017 4:00:13 PM



#20  
4-Bromophenyl-phenylether  
Concen: 0.631 ng  
RT: 16.45 min Scan# 1218  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 92.8  | 40.8  | 61.2#  |
| 141     | 30.9  | 161.6 | 242.4# |





#21

Hexachlorobenzene

Concen: 0.495 ng

RT: 16.58 min Scan# 1222

Delta R.T. -0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

Instrument :

BNA\_E

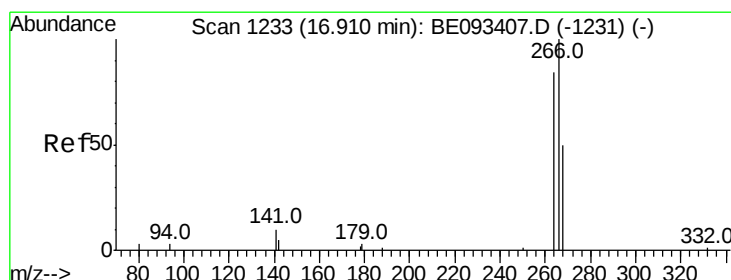
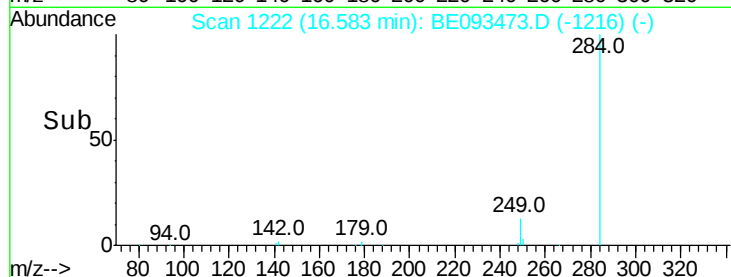
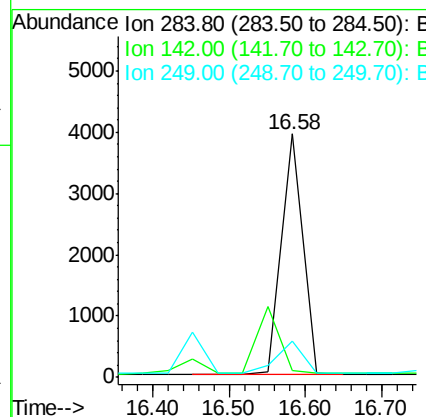
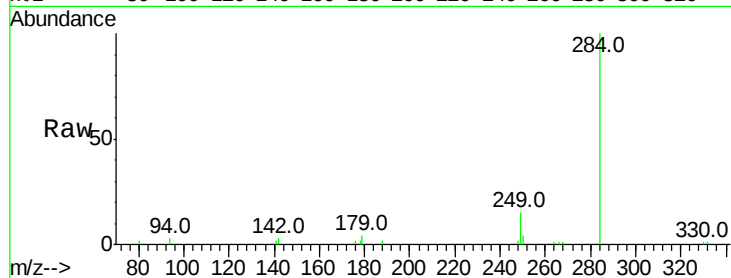
ClientSampleId :

EFFLUENT-20170710MS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 7754 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 0.0   | 0.0   | 0.0  |
| 249       | 16.8  | 0.0   | 0.0# |

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#22

Pentachlorophenol

Concen: 0.581 ng

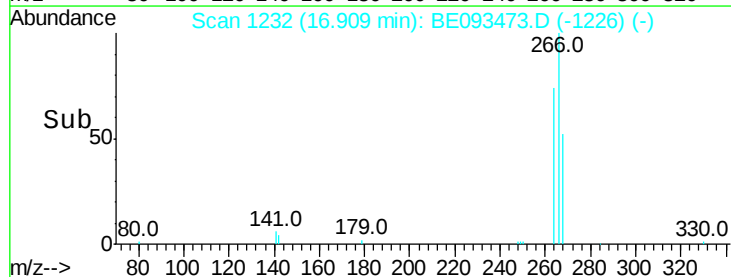
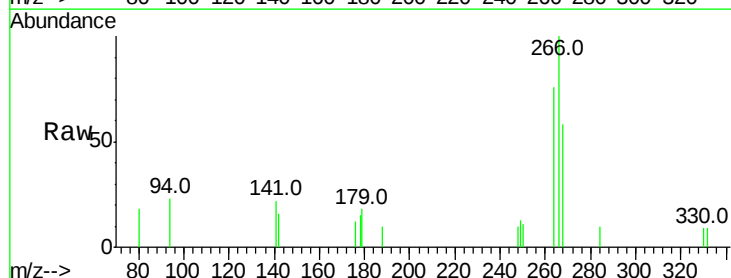
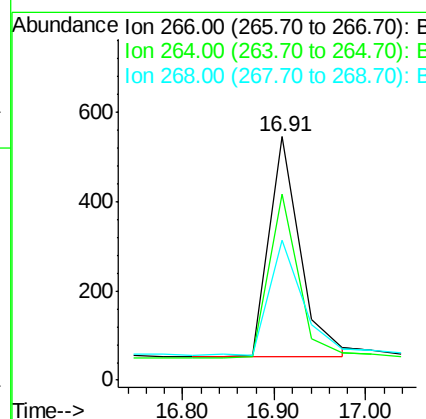
RT: 16.91 min Scan# 1232

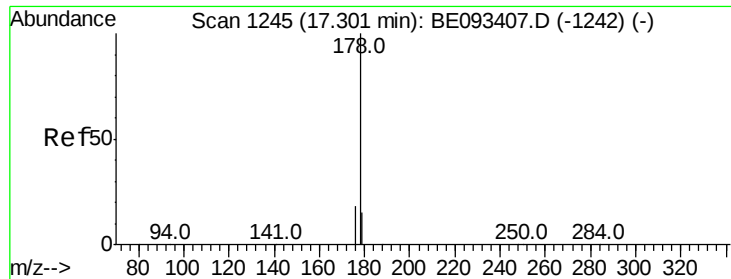
Delta R.T. -0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 1183   |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 264       | 76.2  | 58.2  | 87.2   |
| 268       | 57.7  | 71.9  | 107.9# |





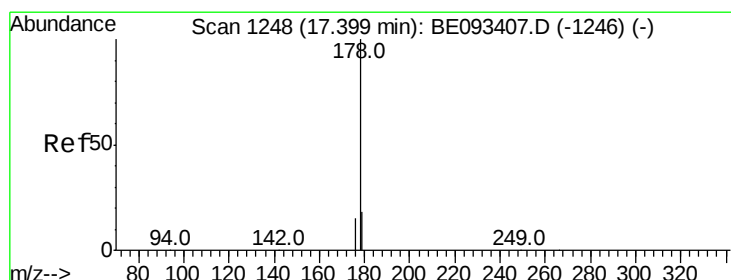
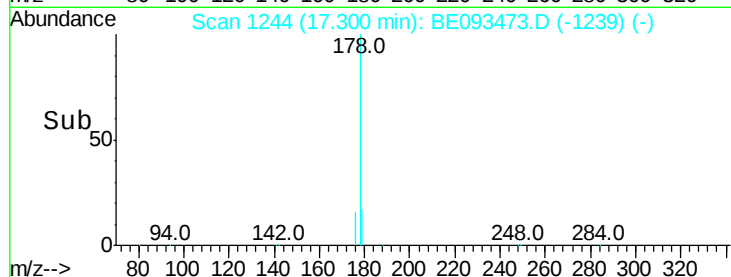
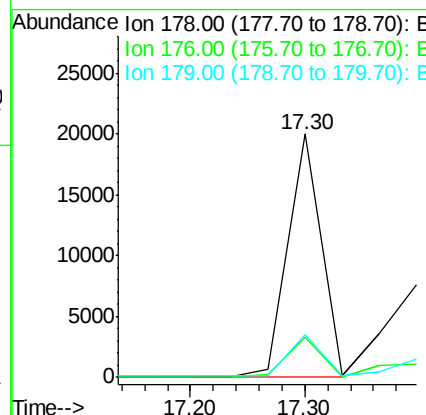
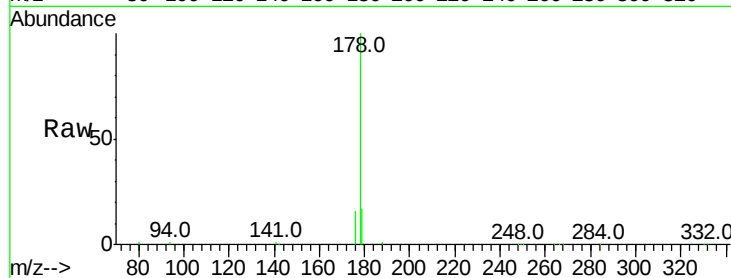
#23  
Phenanthrene  
Concen: 0.420 ng  
RT: 17.30 min Scan# 1244  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 16.4  | 15.0  | 22.4  |
| 179     | 16.9  | 12.7  | 19.1  |

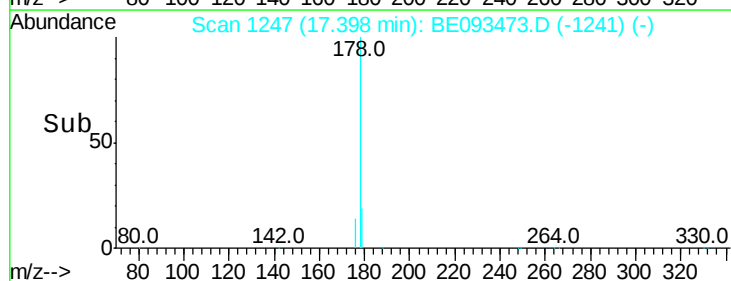
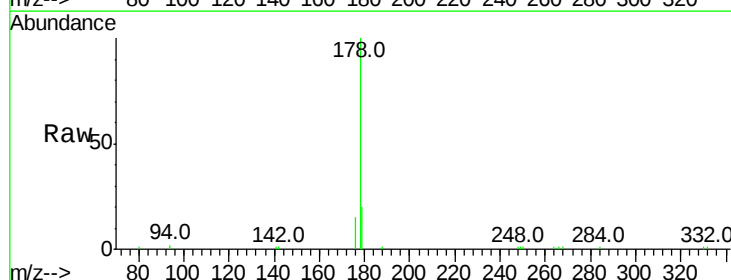
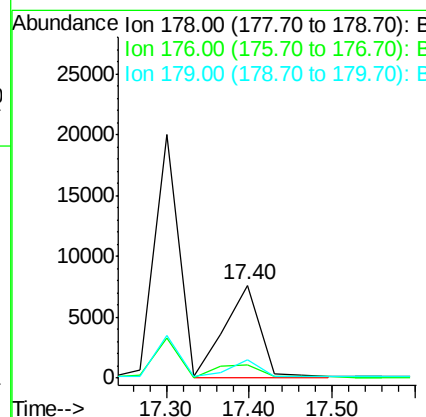
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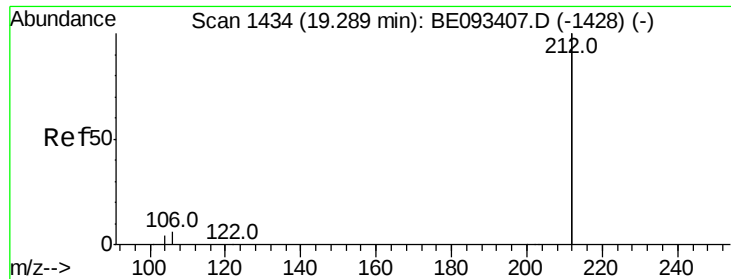
mohammad  
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#24  
Anthracene  
Concen: 0.391 ng m  
RT: 17.40 min Scan# 1247  
Delta R.T. -0.00 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 43.1  | 14.6  | 22.0# |
| 179     | 30.3  | 12.0  | 18.0# |





#25

Fluoranthene-d10

Concen: 0.462 ng

RT: 19.28 min Scan# 1432

Delta R.T. -0.01 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

Instrument :

BNA\_E

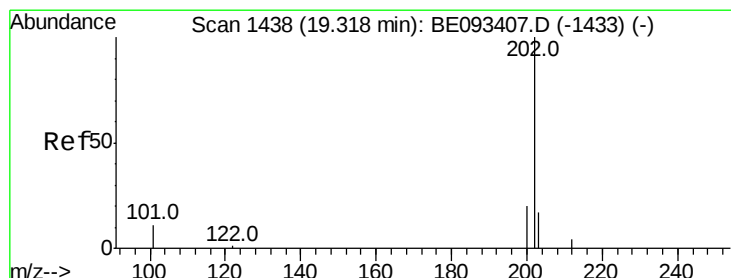
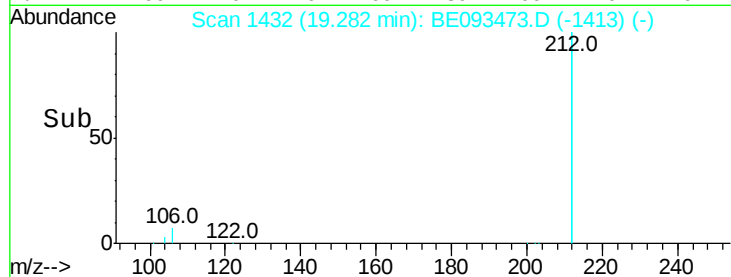
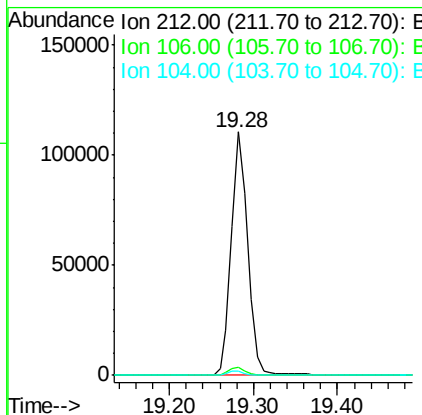
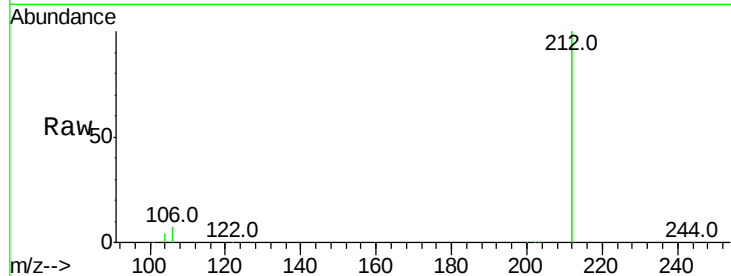
ClientSampleId :

EFFLUENT-20170710MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 212   | Resp: | 147603 |
| Ion Ratio | Lower | Upper |        |
| 212       | 100   |       |        |
| 106       | 3.5   | 2.4   | 3.6    |
| 104       | 1.9   | 1.6   | 2.4    |

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#26

Fluoranthene

Concen: 0.477 ng

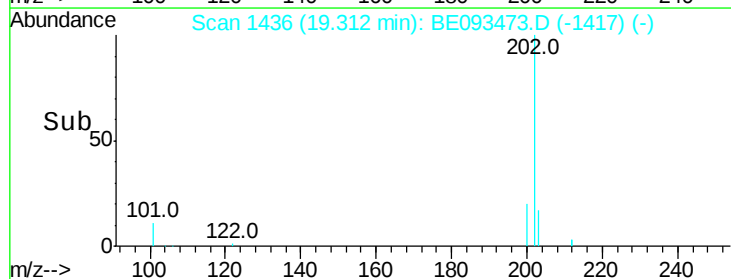
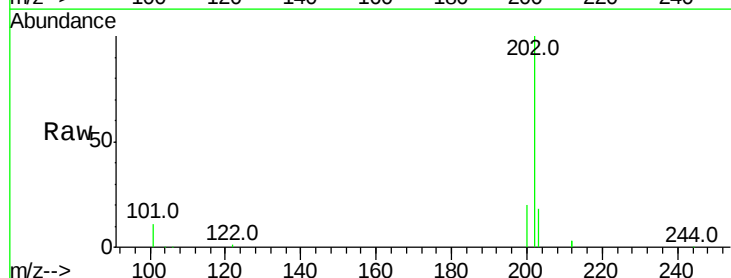
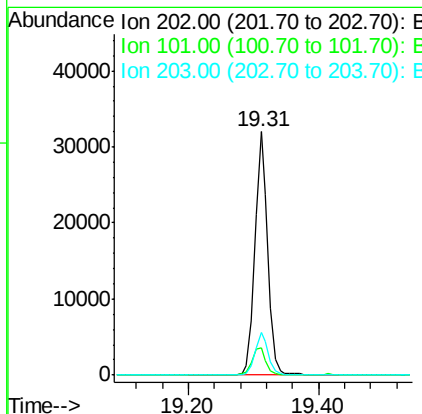
RT: 19.31 min Scan# 1436

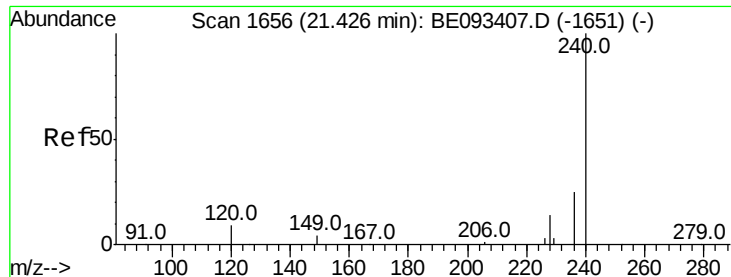
Delta R.T. -0.01 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 43177 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.0  | 9.6   | 14.4  |
| 203       | 17.4  | 14.4  | 21.6  |





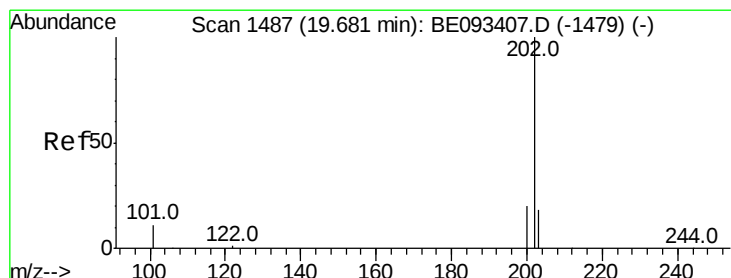
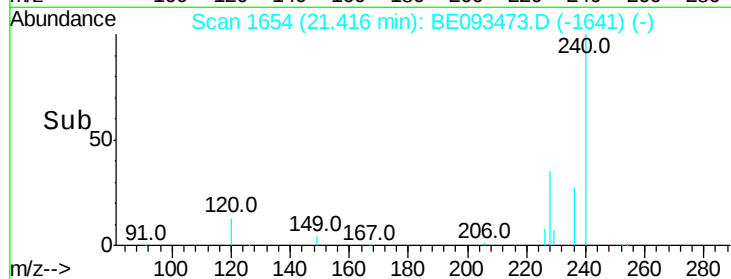
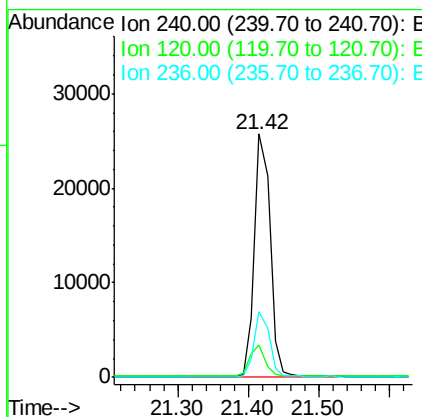
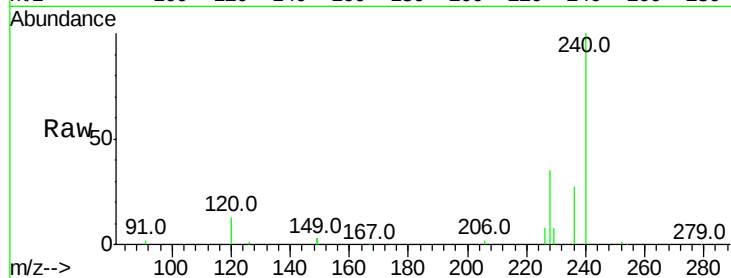
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.42 min Scan# 1654  
 Delta R.T. -0.01 min  
 Lab File: BE093473.D  
 Acq: 14 Jul 2017 17:22

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EFFLUENT-20170710MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.4  | 4.6   | 7.0#  |
| 236     | 27.1  | 20.8  | 31.2  |

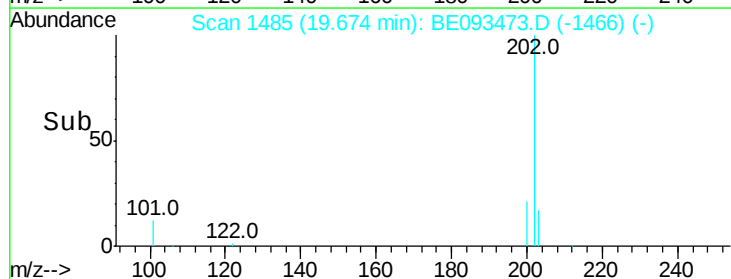
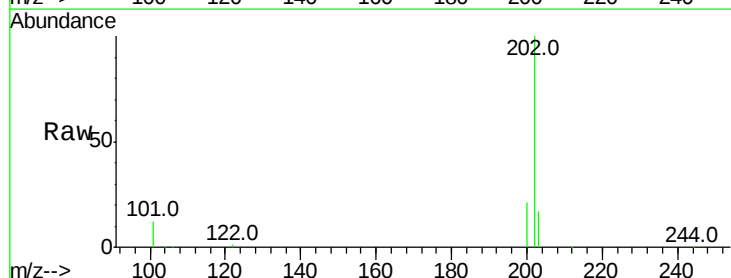
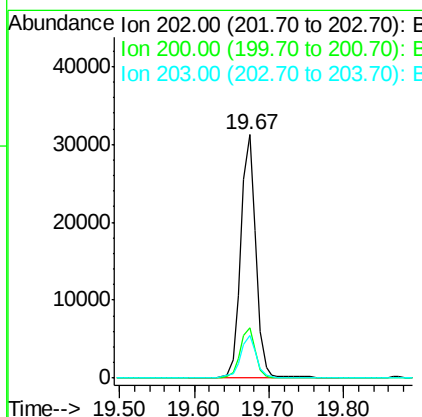
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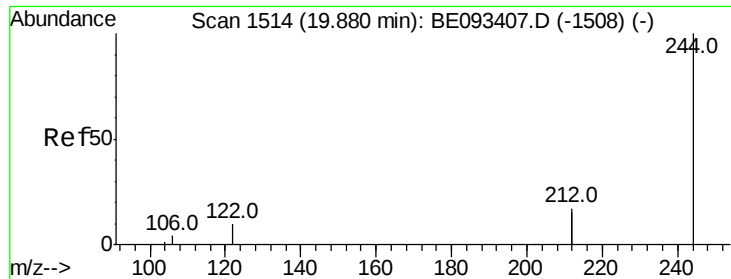
mohammad  
 7/17/2017 4:00:13 PM



#28  
 Pyrene  
 Concen: 0.394 ng  
 RT: 19.67 min Scan# 1485  
 Delta R.T. -0.01 min  
 Lab File: BE093473.D  
 Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.0  | 0.0   | 0.0#  |
| 203     | 17.8  | 13.7  | 20.5  |





#29

Terphenyl-d14

Concen: 0.412 ng

RT: 19.87 min Scan# 1512

Delta R.T. -0.01 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

Instrument :

BNA\_E

ClientSampleId :

EFFLUENT-20170710MS

Tot Ion:244 Resp: 28722

Ion Ratio Lower Upper

244 100

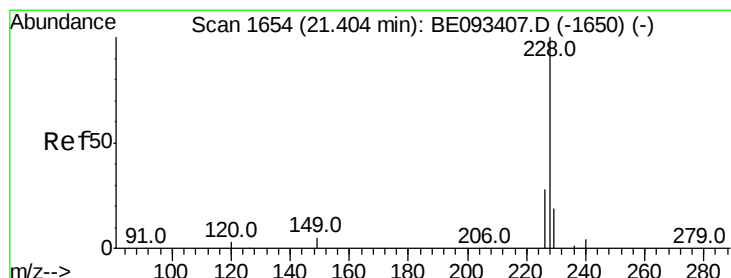
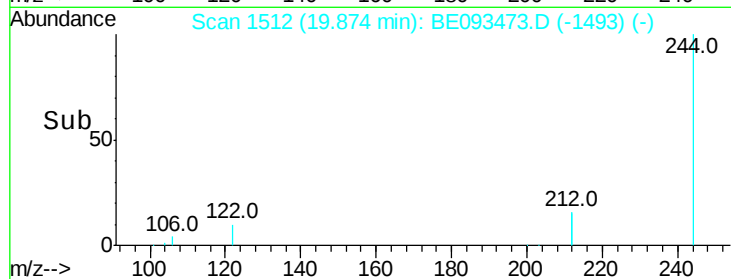
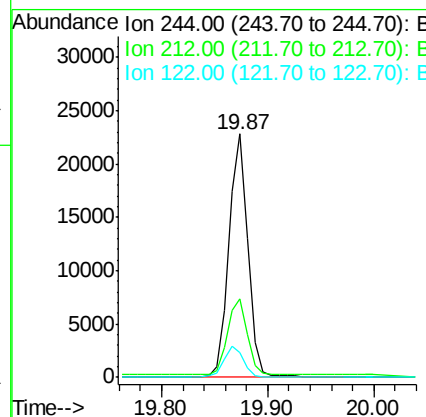
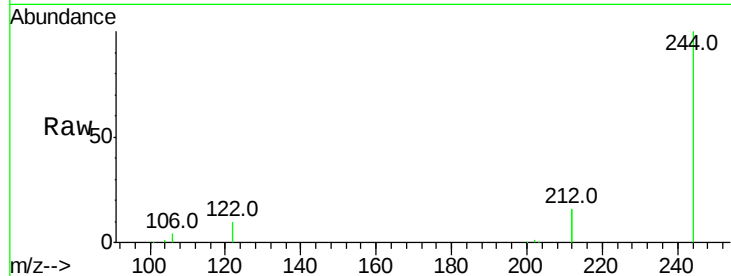
212 32.4 10.6 16.0#

122 10.3 15.4 23.0#

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#30

Benzo(a)anthracene

Concen: 0.376 ng

RT: 21.40 min Scan# 1653

Delta R.T. 0.00 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

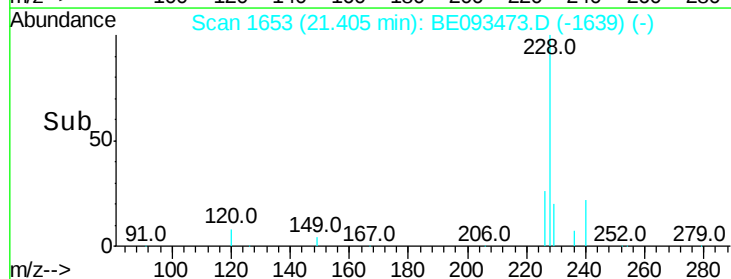
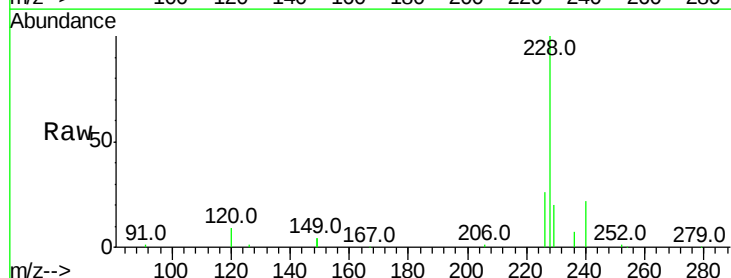
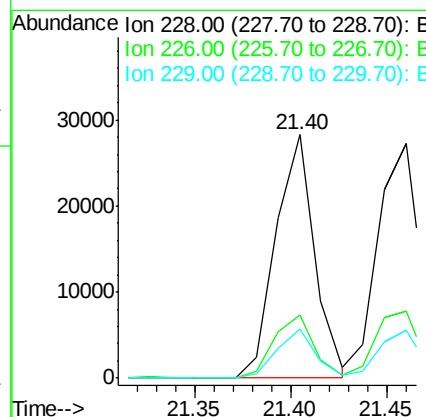
Tgt Ion:228 Resp: 39543

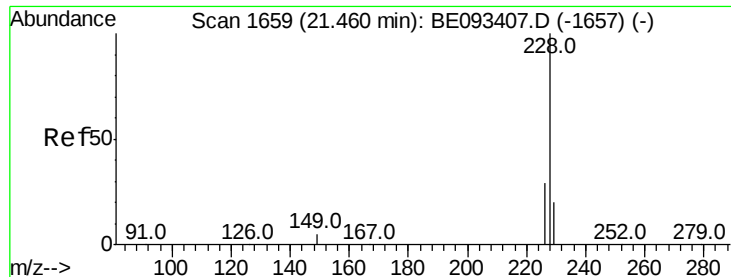
Ion Ratio Lower Upper

228 100

226 26.1 19.7 29.5

229 20.1 19.2 28.8





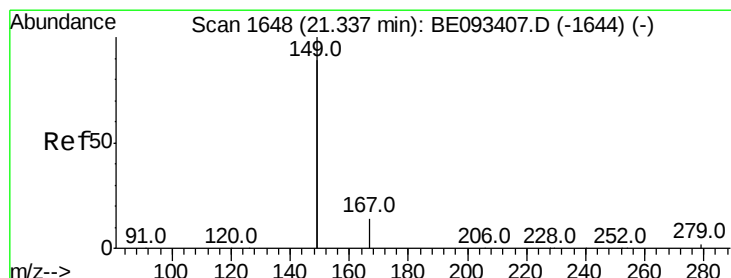
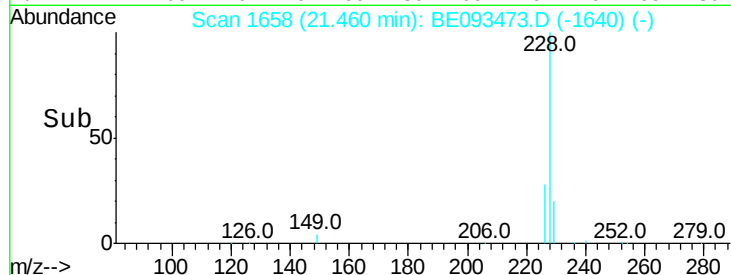
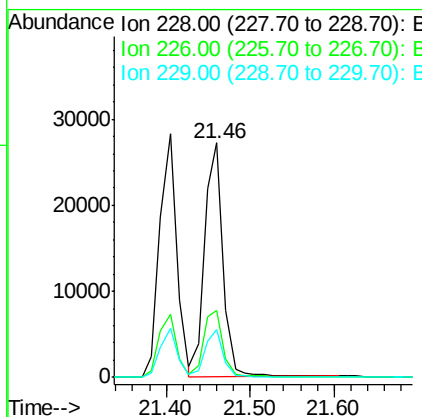
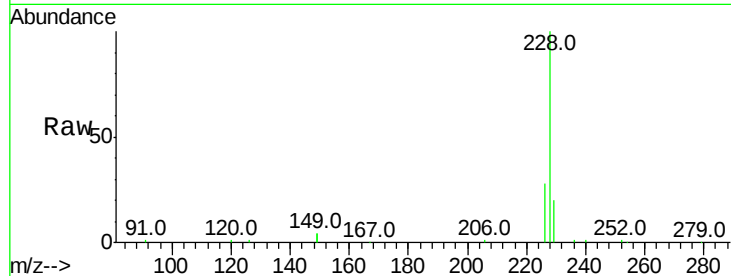
#31  
 Chrysene  
 Concen: 0.378 ng  
 RT: 21.46 min Scan# 1658  
 Delta R.T. 0.00 min  
 Lab File: BE093473.D  
 Acq: 14 Jul 2017 17:22

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EFFLUENT-20170710MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 21.5  | 32.3  |
| 229     | 20.3  | 18.6  | 28.0  |

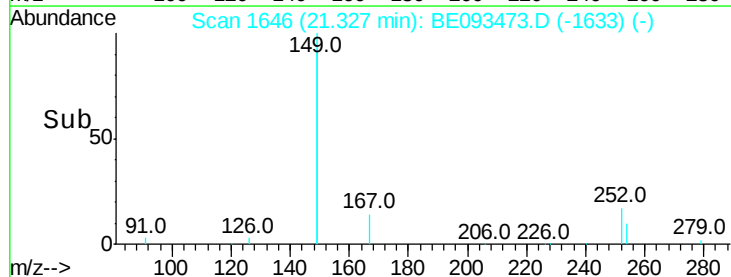
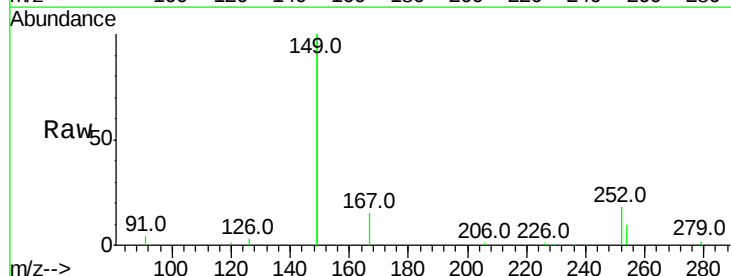
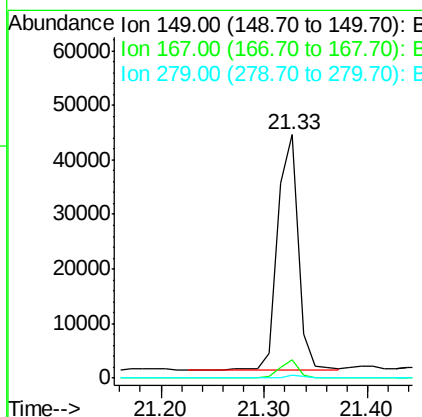
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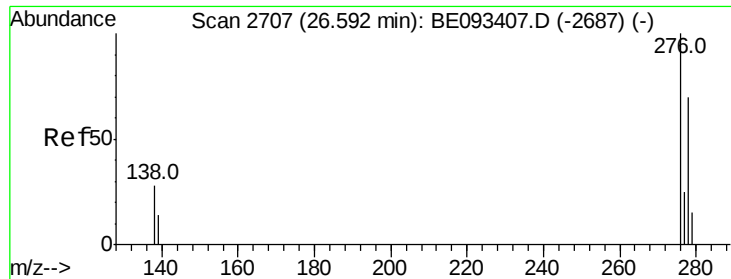
mohammad  
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#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.389 ng  
 RT: 21.33 min Scan# 1646  
 Delta R.T. -0.01 min  
 Lab File: BE093473.D  
 Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 6.7   | 20.1  | 30.1# |
| 279     | 0.9   | 2.2   | 3.4#  |





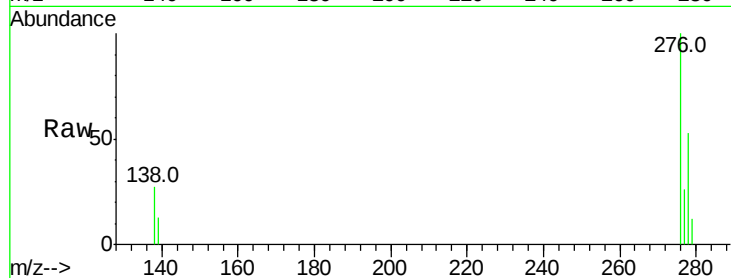
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.413 ng  
RT: 26.57 min Scan# 2702  
Delta R.T. -0.02 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 39922 |       |       |
| 138     | 28.5  |       | 27.4  | 41.2  |
| 277     | 24.8  |       | 20.1  | 30.1  |

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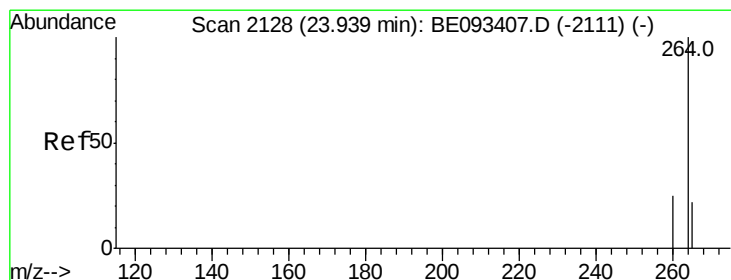
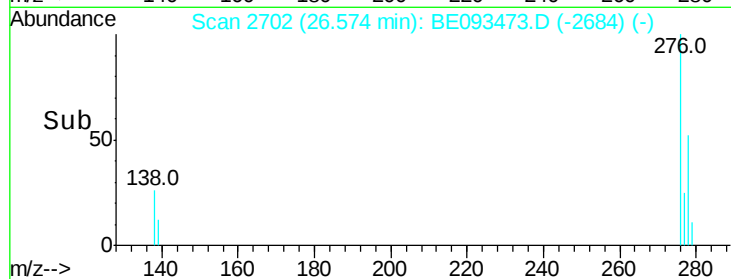
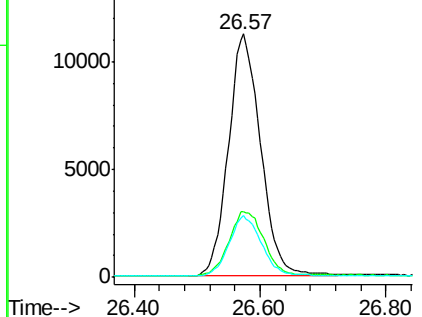


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.93 min Scan# 2125  
Delta R.T. -0.01 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

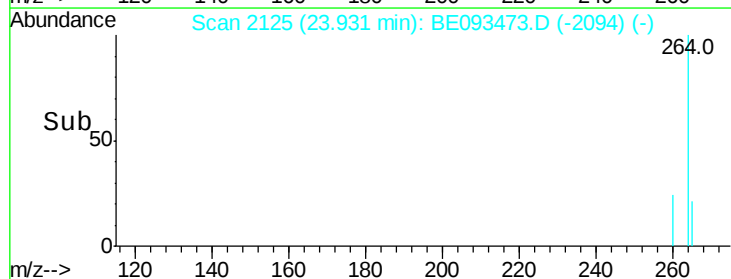
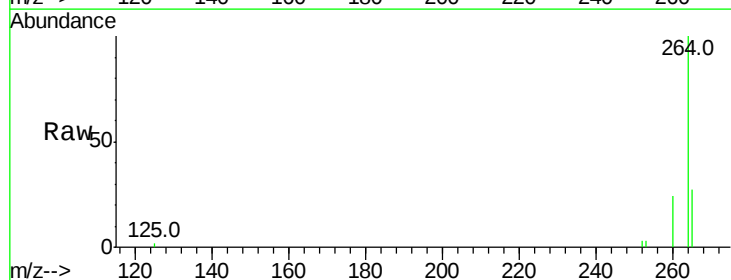
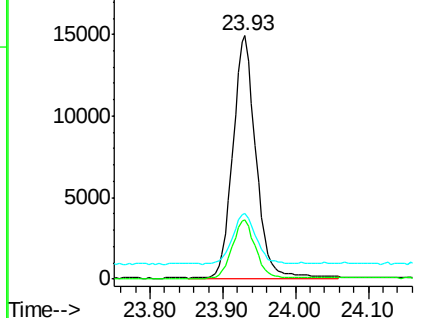
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 264     | 100   | 32751 |       |       |
| 260     | 24.2  |       | 21.0  | 31.4  |
| 265     | 26.9  |       | 24.6  | 36.8  |

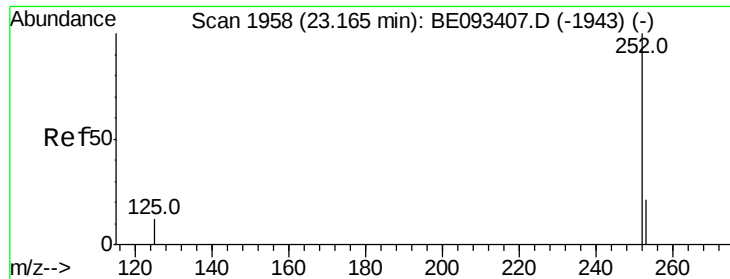
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 23.16 min Scan# 1955

Delta R.T. -0.01 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

Instrument :

BNA\_E

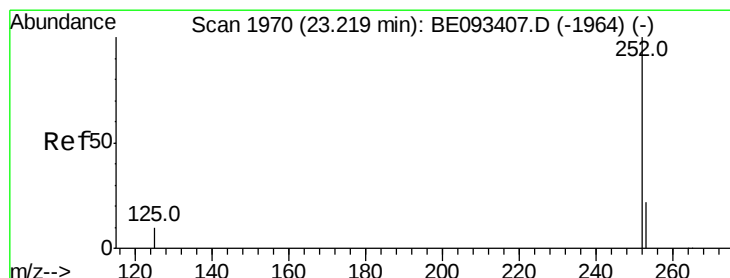
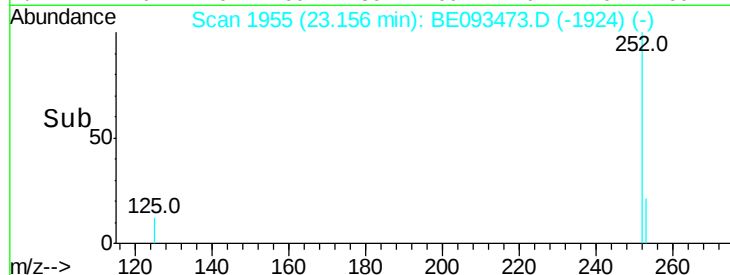
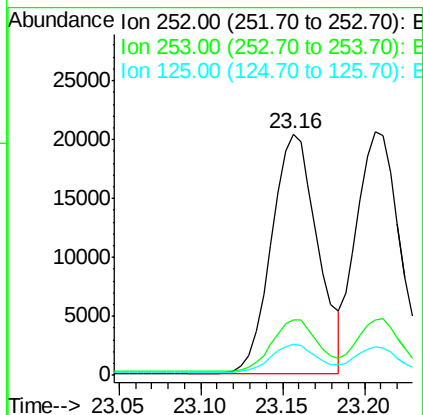
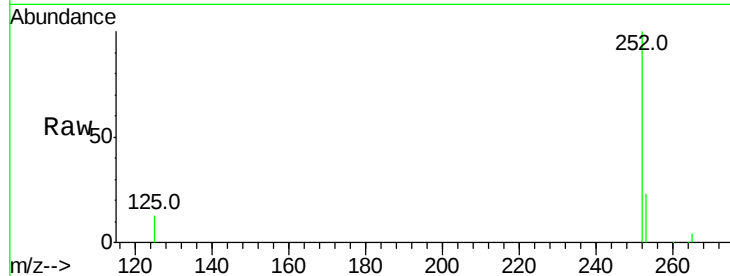
ClientSampleId :

EFFLUENT-20170710MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 39831 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.0  | 18.5  | 27.7  |
| 125       | 12.8  | 13.4  | 20.0# |

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#36

Benzo(k)fluoranthene

Concen: 0.369 ng m

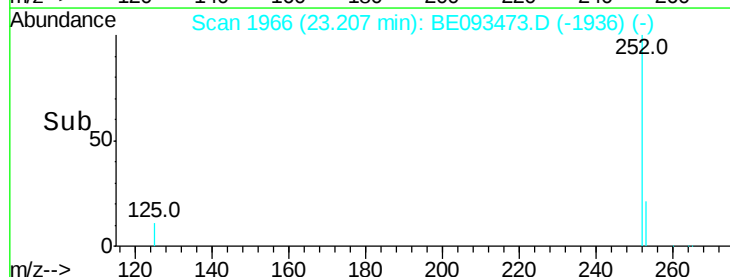
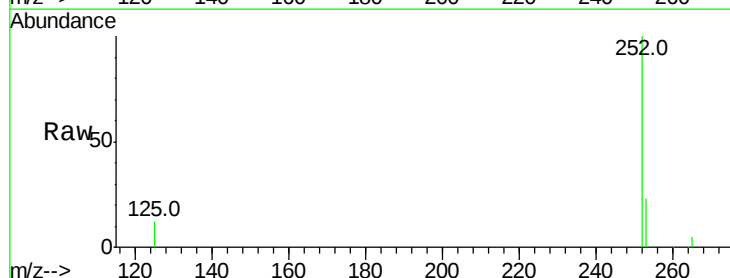
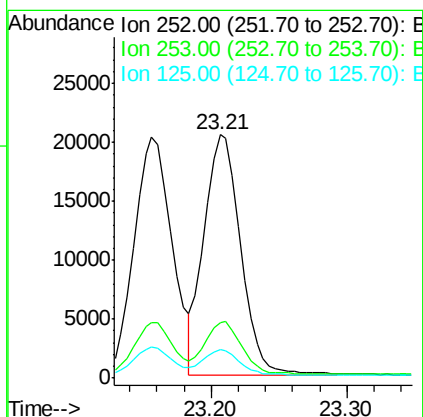
RT: 23.21 min Scan# 1966

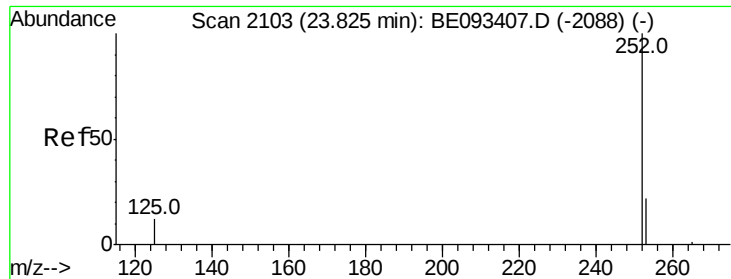
Delta R.T. -0.01 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 38592 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.6  | 20.3  | 30.5  |
| 125       | 11.8  | 12.2  | 18.4# |





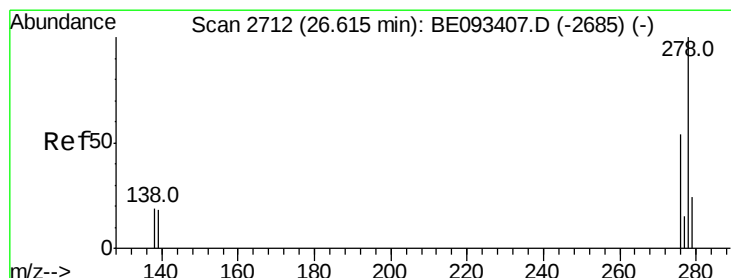
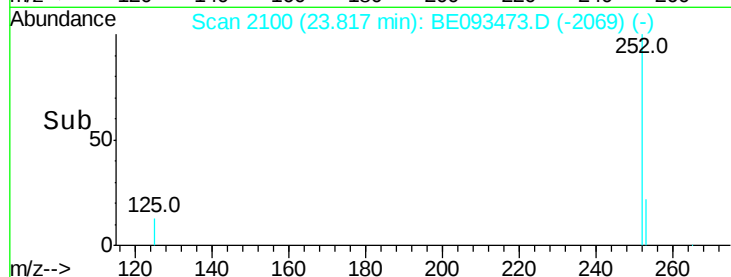
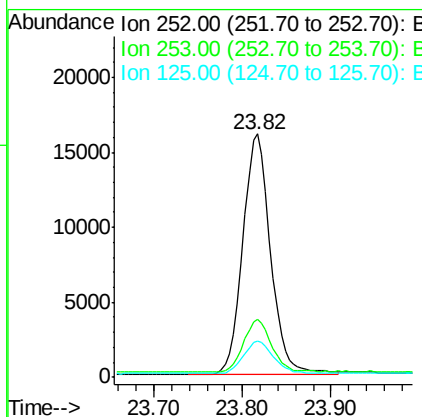
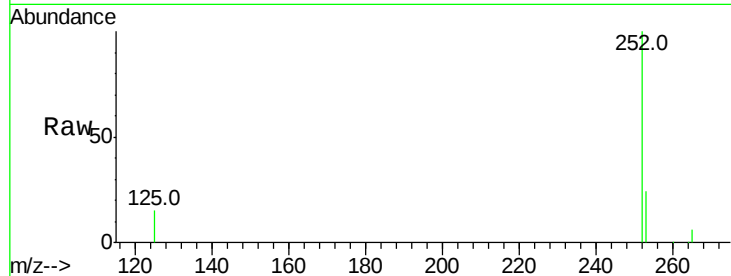
#37  
Benzo(a)pyrene  
Concen: 0.380 ng  
RT: 23.82 min Scan# 2100  
Delta R.T. -0.01 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

Instrument :  
BNA\_E  
ClientSampleId :  
EFFLUENT-20170710MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 19.9  | 29.9  |
| 125     | 14.9  | 14.6  | 21.8  |

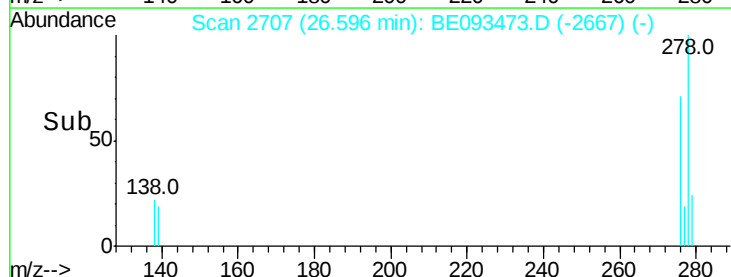
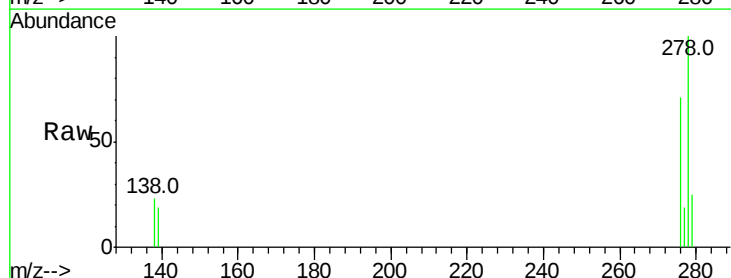
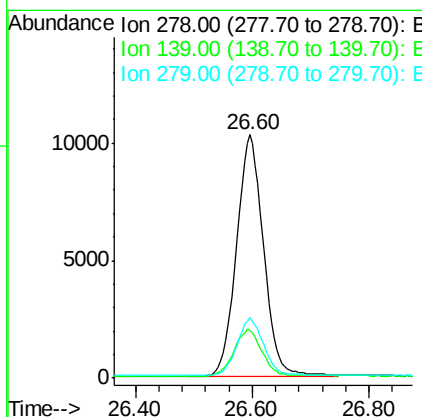
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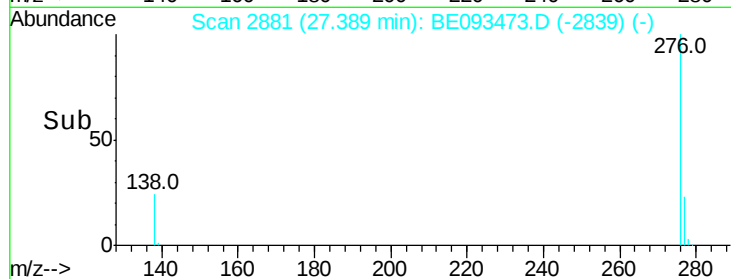
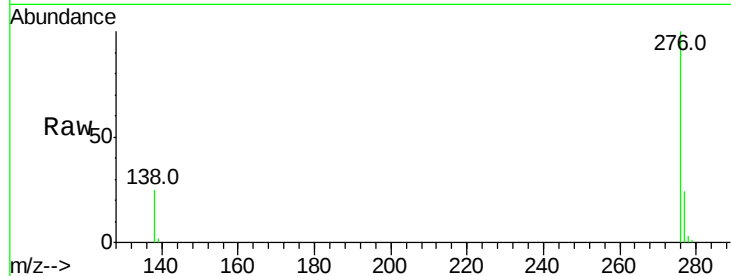
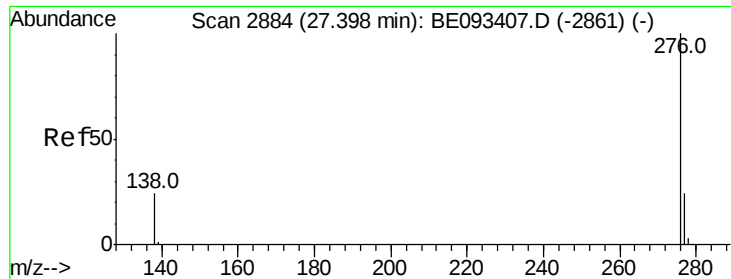
mohammad  
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.371 ng  
RT: 26.60 min Scan# 2707  
Delta R.T. -0.02 min  
Lab File: BE093473.D  
Acq: 14 Jul 2017 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.4  | 21.4  | 32.0# |
| 279     | 24.7  | 22.2  | 33.2  |





#39

Benzo(a,h,i)perylene

Concen: 0.371 ng

RT: 27.39 min Scan# 2881

Delta R.T. -0.01 min

Lab File: BE093473.D

Acq: 14 Jul 2017 17:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 33734 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.5  | 21.2  | 31.8  |
| 138       | 25.1  | 24.5  | 36.7  |

Instrument :

BNA\_E

ClientSampleId :

EFFLUENT-20170710MS

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