

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101619\  
 Data File : BP000786.D  
 Acq On : 15 Oct 2019 23:24  
 Operator : JU  
 Sample : K5178-11  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 BEPF4

Manual Integrations  
 APPROVED

mohammad  
 10/17/2019 7:59:30 AM

Quant Time: Oct 16 06:47:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP100919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 16 05:11:27 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.75  | 152  | 181856   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 8.03  | 136  | 683699   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 9.80  | 164  | 377809   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 11.29 | 188  | 685190   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 13.97 | 240  | 517672   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 15.46 | 264  | 629529   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.36  | 96  | 14320  | 3.27  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.39  | 99  | 260319 | 18.56 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.43  | 67  | 135167 | 19.27 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.52  | 132 | 226527 | 19.17 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 7.13  | 113 | 209425 | 19.54 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 7.30  | 128 | 109456 | 21.06 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 7.63  | 143 | 120397 | 21.75 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 7.89  | 165 | 222815 | 21.04 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 8.09  | 131 | 172196 | 14.62 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 9.49  | 166 | 642747 | 24.30 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 9.64  | 160 | 755586 | 23.22 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 9.92  | 143 | 66254  | 16.26 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 10.32 | 176 | 541359 | 23.92 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 10.39 | 200 | 45610  | 13.98 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 11.35 | 188 | 783028 | 24.67 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 12.74 | 212 | 798074 | 27.26 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 15.36 | 264 | 781506 | 25.15 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 6) Phenol                      | 6.40  | 94  | 35997   | 2.545  | ng/ul 93  |
| 45) Dimethylphthalate          | 9.51  | 163 | 334619  | 12.698 | ng/ul 99  |
| 48) Acenaphthylene             | 9.66  | 152 | 52003   | 1.549  | ng/ul 98  |
| 50) Acenaphthene               | 9.83  | 153 | 57018   | 2.454  | ng/ul 98  |
| 59) Fluorene                   | 10.35 | 166 | 55074   | 2.191  | ng/ul 99  |
| 70) Phenanthrene               | 11.32 | 178 | 1113609 | 29.821 | ng/ul 100 |
| 72) Anthracene                 | 11.37 | 178 | 245775  | 6.485  | ng/ul 99  |
| 75) Carbazole                  | 11.53 | 167 | 61861   | 1.913  | ng/ul 97  |
| 76) Di-n-butylphthalate        | 11.87 | 149 | 50230   | 1.295  | ng/ul 99  |
| 77) Fluoranthene               | 12.53 | 202 | 1576830 | 41.211 | ng/ul 96  |
| 80) Pyrene                     | 12.76 | 202 | 1891639 | 51.503 | ng/ul 97  |
| 83) Benzo(a)anthracene         | 13.96 | 228 | 1018324 | 29.309 | ng/ul 95  |
| 84) Bis(2-ethylhexyl)phthalate | 13.96 | 149 | 585631  | 29.353 | ng/ul 99  |
| 85) Chrysene                   | 14.00 | 228 | 1077034 | 33.351 | ng/ul 97  |
| 87) Di-n-octyl phthalate       | 14.57 | 149 | 64781   | 1.795  | ng/ul 100 |
| 88) Benzo(b)fluoranthene       | 15.03 | 252 | 1187812 | 31.624 | ng/ul 98  |
| 89) Benzo(k)fluoranthene       | 15.05 | 252 | 302360m | 8.453  | ng/ul     |
| 91) Benzo(a)pyrene             | 15.39 | 252 | 934503  | 26.278 | ng/ul 99  |
| 92) Indeno(1,2,3-cd)pyrene     | 16.93 | 276 | 558727  | 13.706 | ng/ul 97  |
| 93) Dibenzo(a,h)anthracene     | 16.93 | 278 | 175383  | 5.249  | ng/ul 94  |
| 94) Benzo(a,h,i)perylene       | 17.37 | 276 | 584831  | 17.231 | ng/ul 99  |

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Sample : K5178-11  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
BEPF4

Manual Integrations  
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Quant Time: Oct 16 06:47:01 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP100919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Oct 16 05:11:27 2019  
Response via : Initial Calibration

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

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

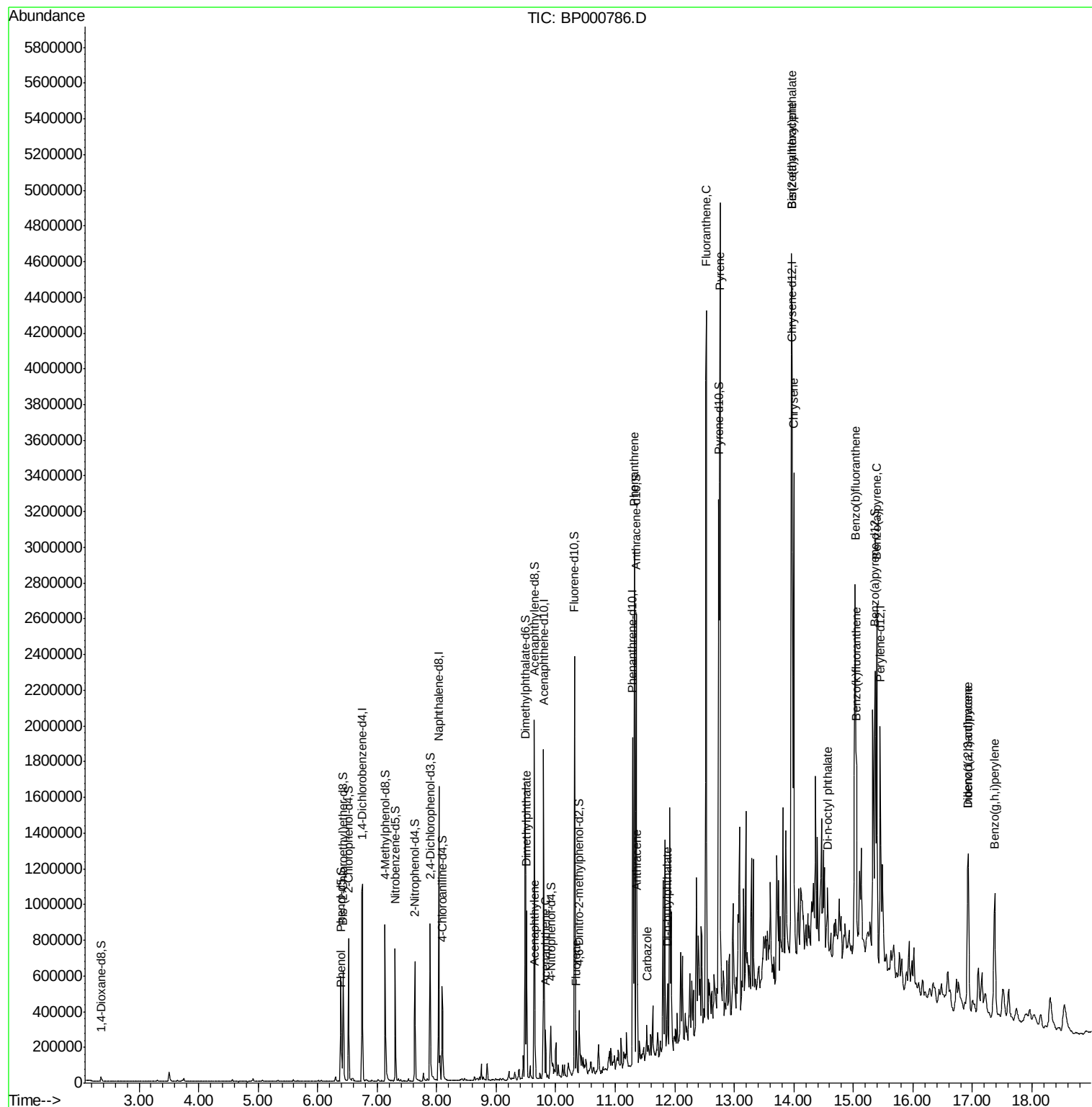
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101619\  
Data File : BP000786.D  
Acq On : 15 Oct 2019 23:24  
Operator : JU  
Sample : K5178-11  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

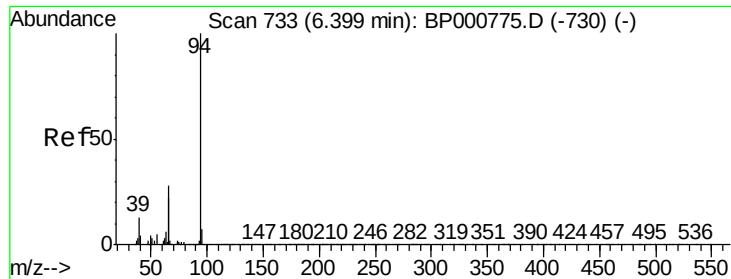
Instrument :  
BNA\_P  
ClientSampled :  
BEPF4

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Quant Time: Oct 16 06:47:01 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP100919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Oct 16 05:11:27 2019  
Response via : Initial Calibration





#6

Phenol

Concen: 2.545 ng/ul

RT: 6.40 min Scan# 734

Delta R.T. 0.01 min

Lab File: BP000786.D

Acq: 15 Oct 2019 23:24

Instrument :

BNA\_P

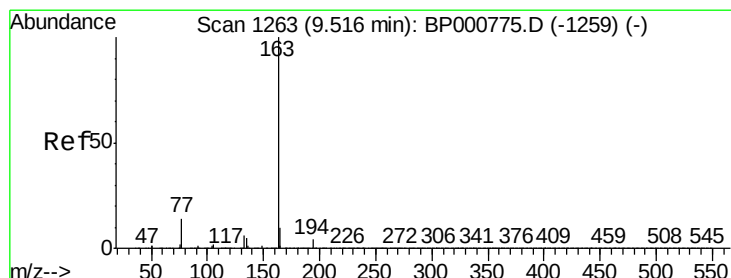
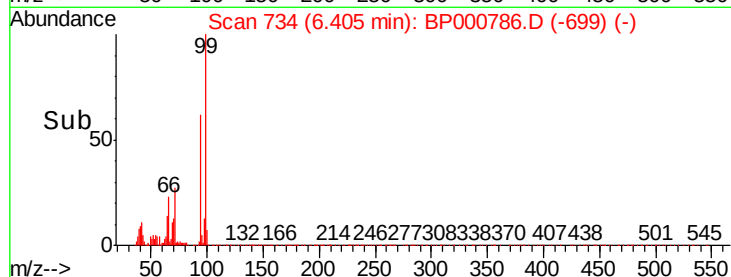
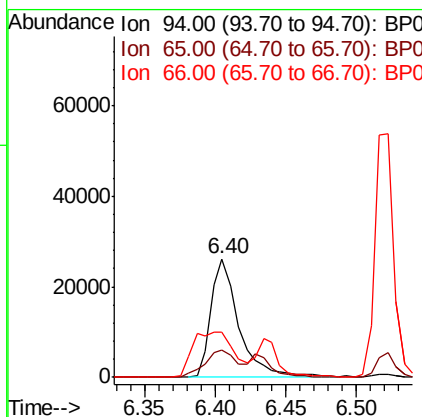
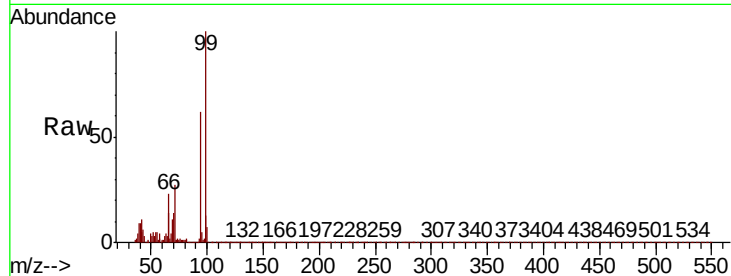
ClientSampleId :

BEPF4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 35997 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 22.9  | 19.2  | 28.8  |
| 66        | 38.1  | 25.7  | 38.5  |

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#45

Dimethylphthalate

Concen: 12.698 ng/ul

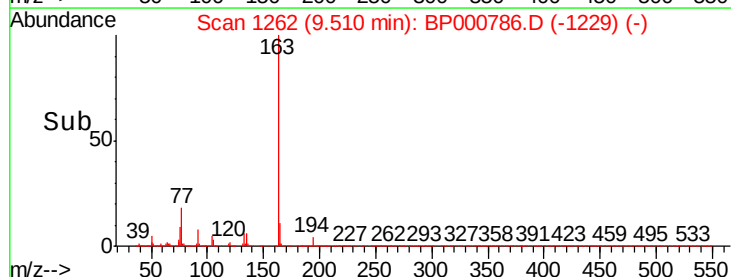
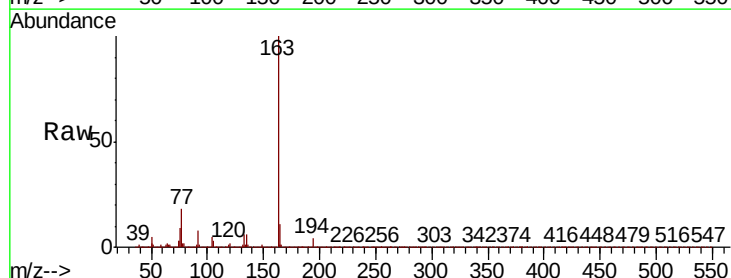
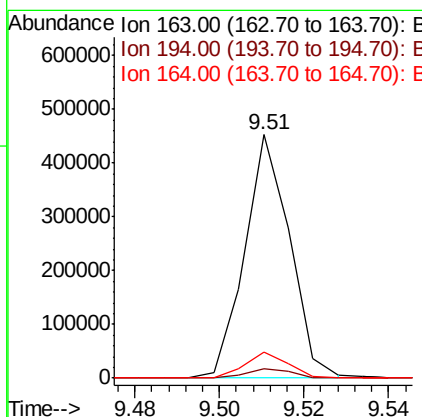
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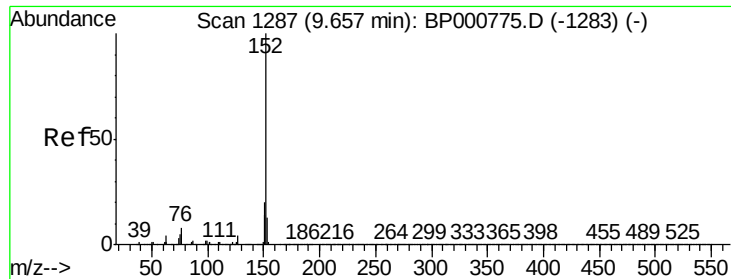
Delta R.T. -0.01 min

Lab File: BP000786.D

Acq: 15 Oct 2019 23:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 334619 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.1   | 3.3   | 4.9    |
| 164       | 10.5  | 8.1   | 12.1   |





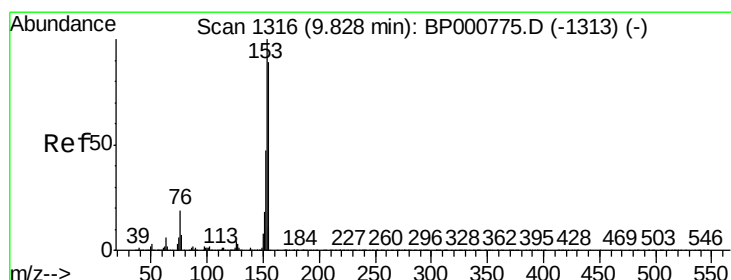
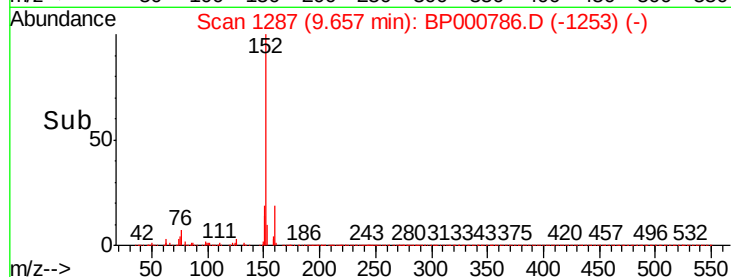
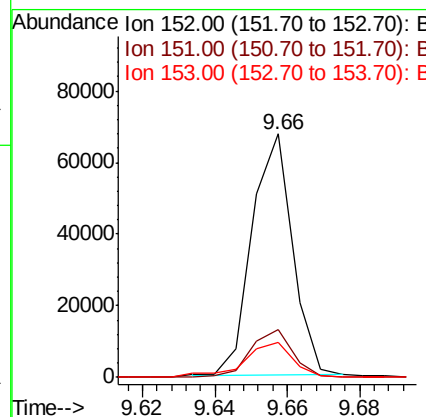
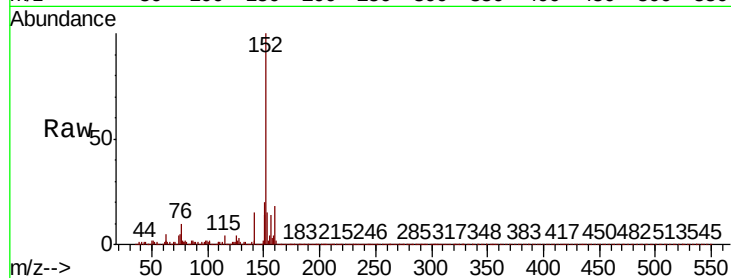
#48  
Acenaphthylene  
Concen: 1.549 ng/ul  
RT: 9.66 min Scan# 1287  
Delta R.T. 0.00 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

Instrument :  
BNA\_P  
ClientSampled :  
BEPF4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.8  | 16.2  | 24.4  |
| 153     | 14.6  | 10.9  | 16.3  |

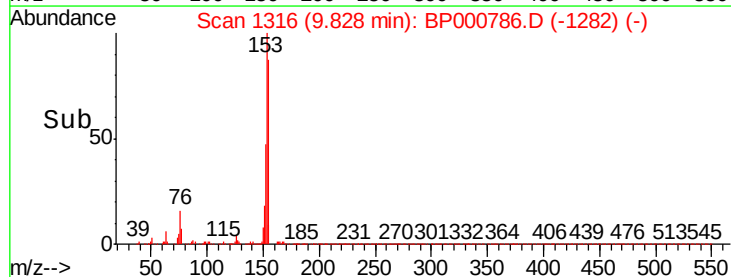
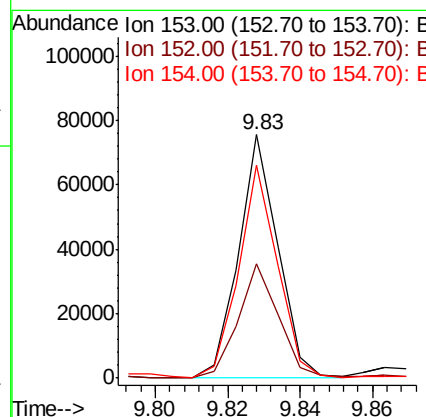
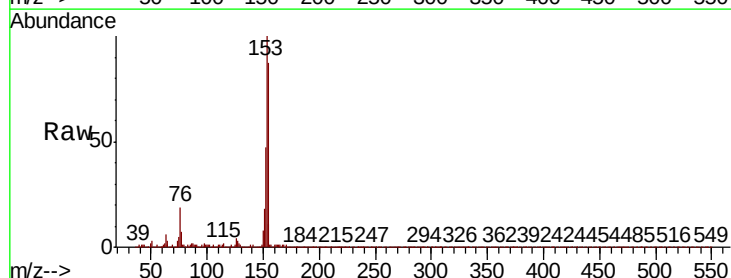
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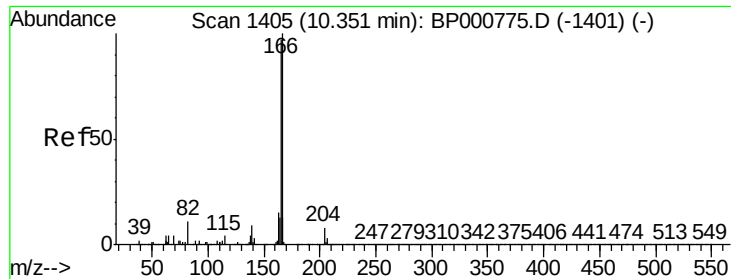
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#50  
Acenaphthene  
Concen: 2.454 ng/ul  
RT: 9.83 min Scan# 1316  
Delta R.T. 0.00 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.1  | 38.6  | 57.8  |
| 154     | 87.3  | 71.9  | 107.9 |





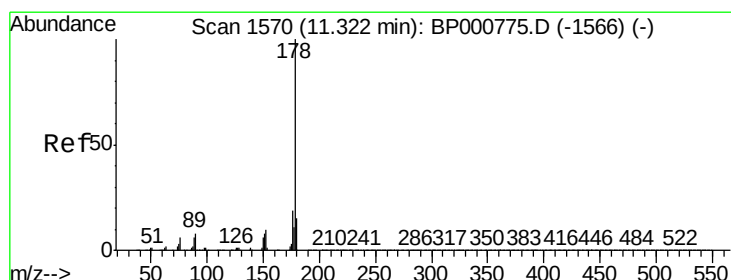
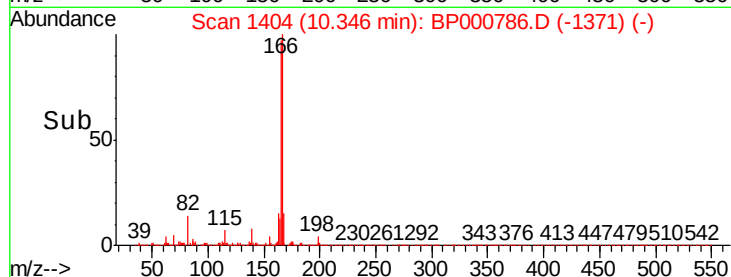
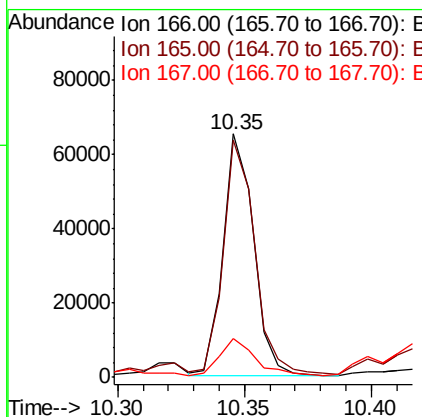
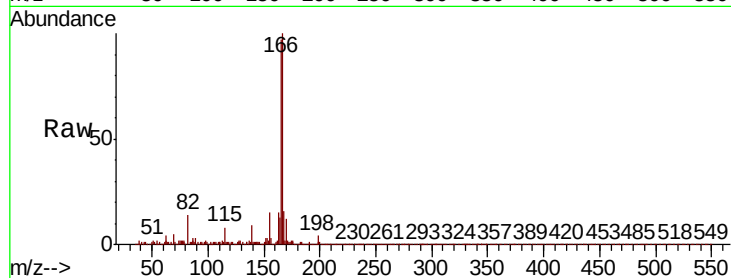
#59  
Fluorene  
Concen: 2.191 ng/ul  
RT: 10.35 min Scan# 1404  
Delta R.T. -0.01 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

Instrument :  
BNA\_P  
ClientSampleId :  
BEPF4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.3  | 77.4  | 116.0 |
| 167     | 15.9  | 10.8  | 16.2  |

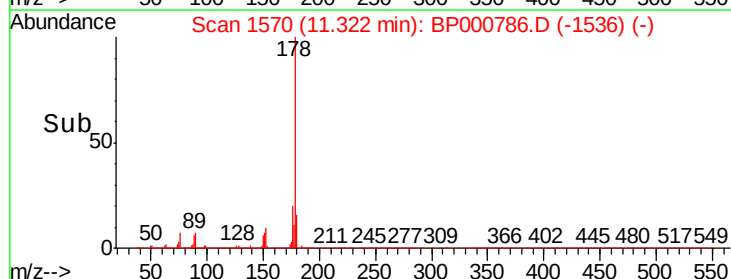
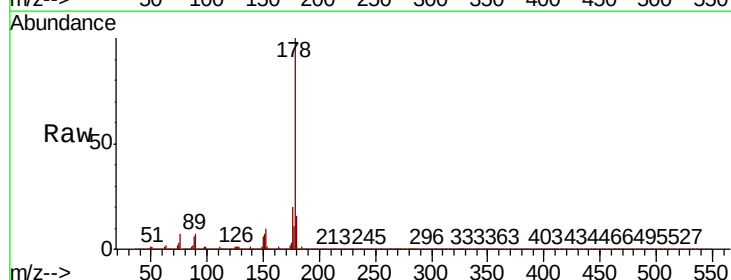
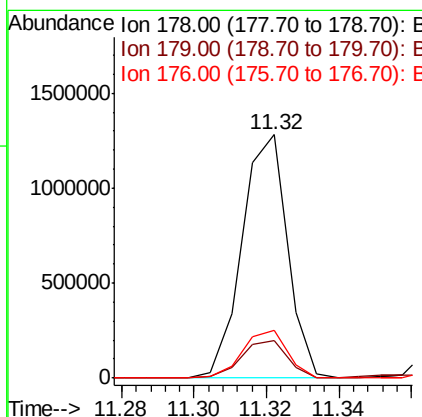
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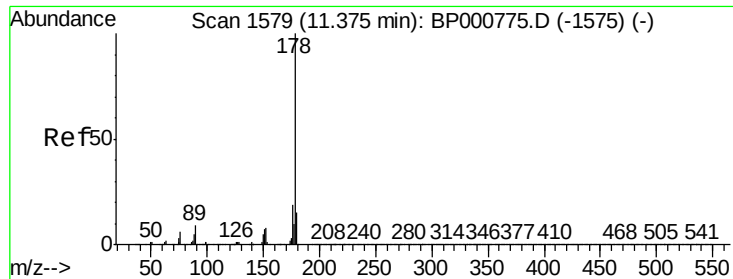
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#70  
Phenanthrene  
Concen: 29.821 ng/ul  
RT: 11.32 min Scan# 1570  
Delta R.T. 0.00 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 12.5  | 18.7  |
| 176     | 19.6  | 15.4  | 23.2  |





#72

Anthracene

Concen: 6.485 ng/ul

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BP000786.D

Acq: 15 Oct 2019 23:24

Instrument :

BNA\_P

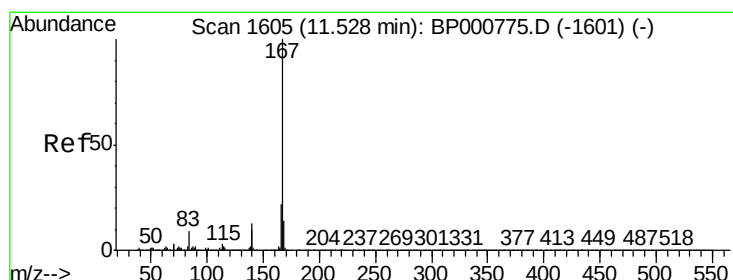
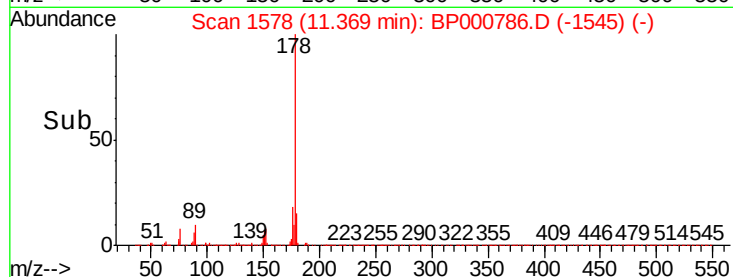
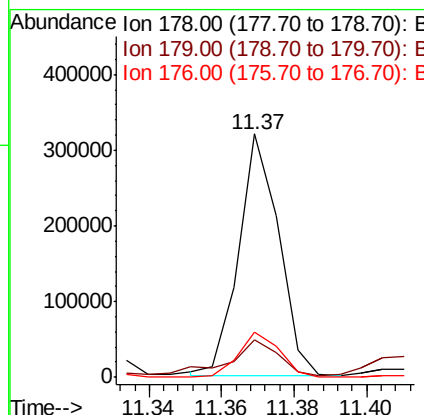
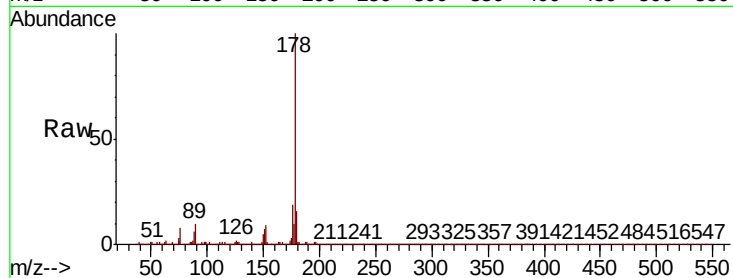
ClientSampleId :

BEPF4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 245775 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.6  | 12.4  | 18.6   |
| 176       | 18.5  | 15.1  | 22.7   |

Manual Integrations  
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#75

Carbazole

Concen: 1.913 ng/ul

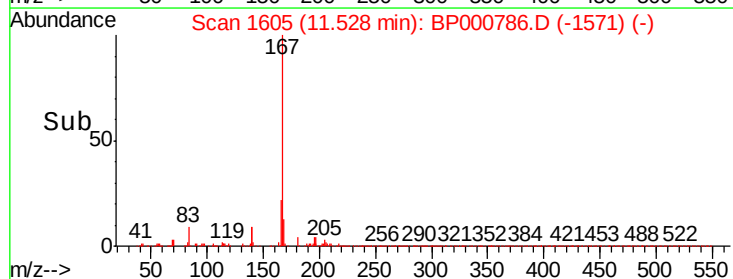
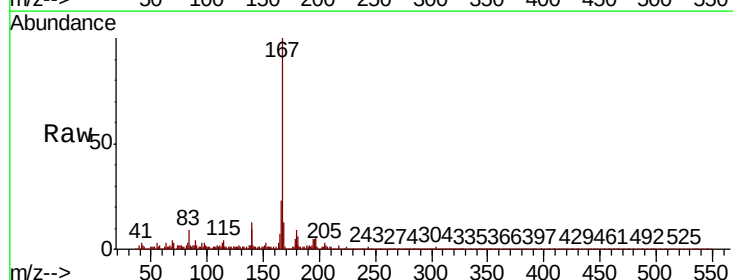
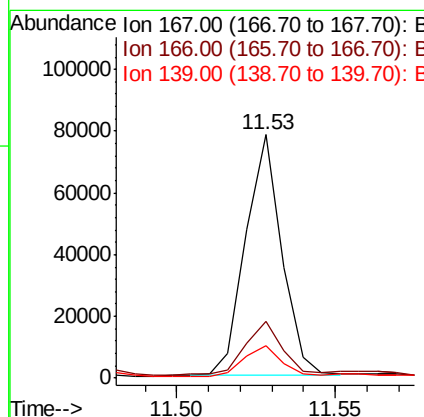
RT: 11.53 min Scan# 1605

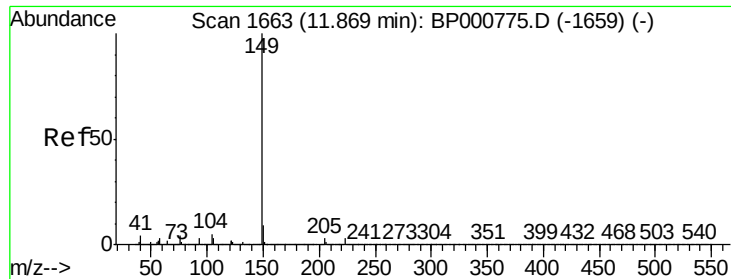
Delta R.T. 0.00 min

Lab File: BP000786.D

Acq: 15 Oct 2019 23:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 61861 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 23.3  | 17.4  | 26.0  |
| 139       | 13.4  | 10.2  | 15.4  |





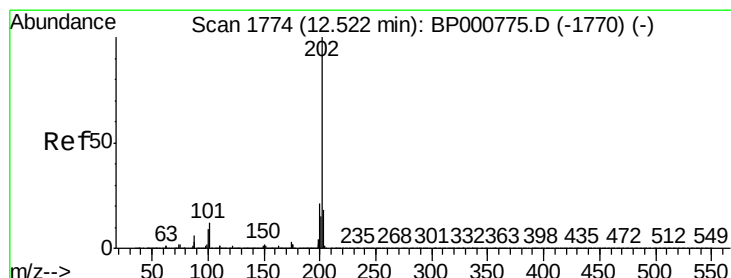
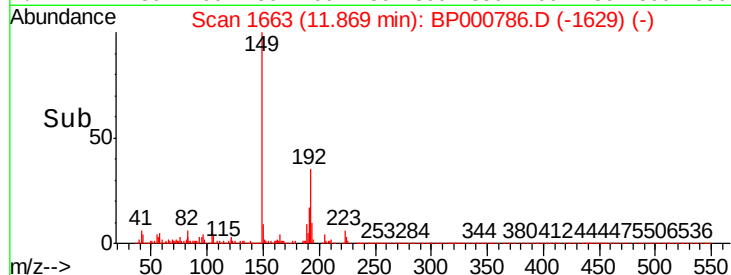
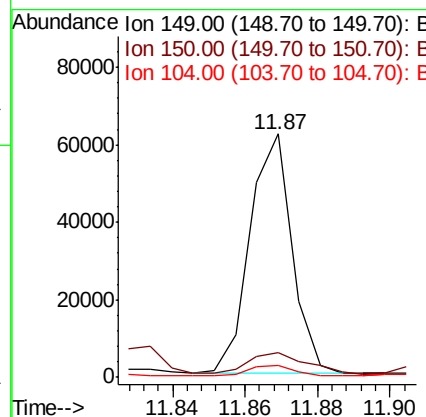
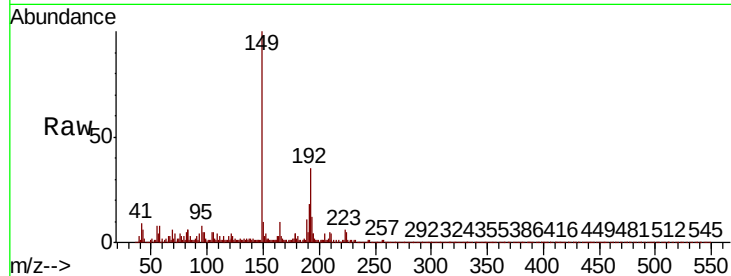
#76  
Di-n-butylphthalate  
Concen: 1.295 ng/ul  
RT: 11.87 min Scan# 1663  
Delta R.T. 0.00 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

Instrument :  
BNA\_P  
ClientSampleId :  
BEPF4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.9   | 7.6   | 11.4  |
| 104     | 5.1   | 3.7   | 5.5   |

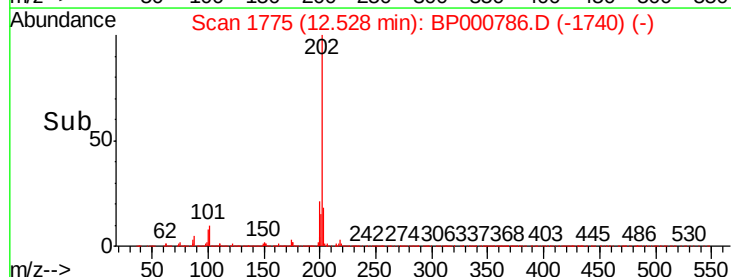
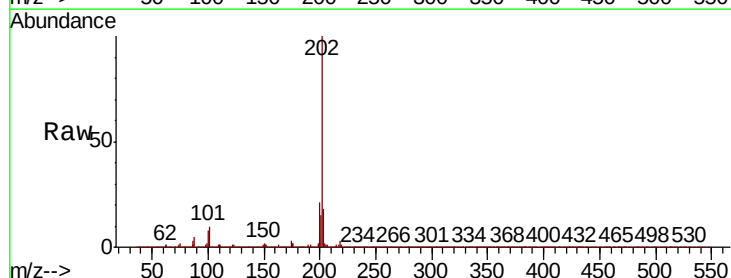
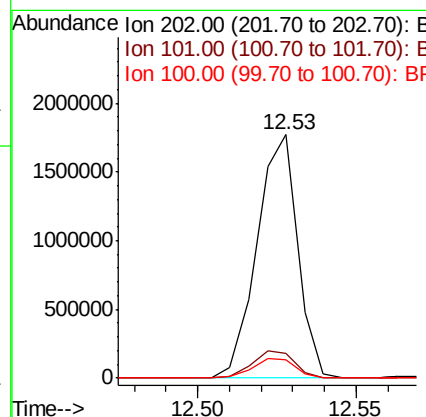
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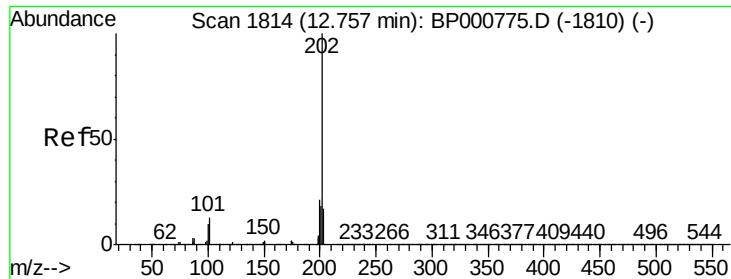


#77  
Fluoranthene  
Concen: 41.211 ng/ul  
RT: 12.53 min Scan# 1775  
Delta R.T. 0.01 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 9.8   | 14.6  |
| 100     | 7.8   | 7.2   | 10.8  |







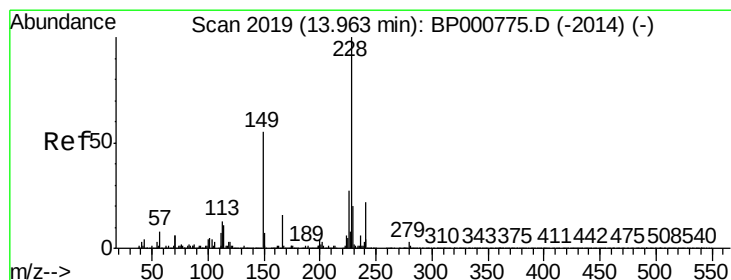
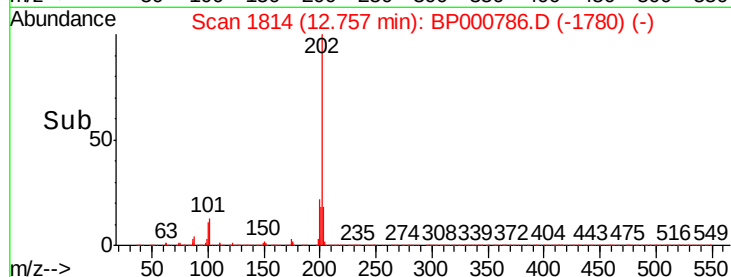
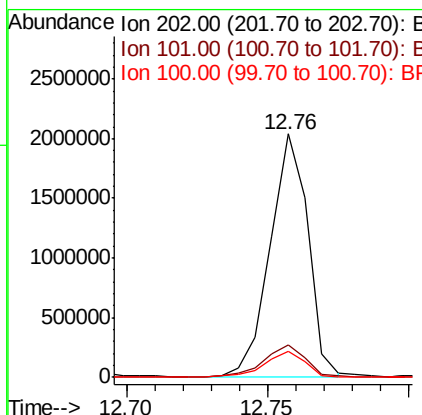
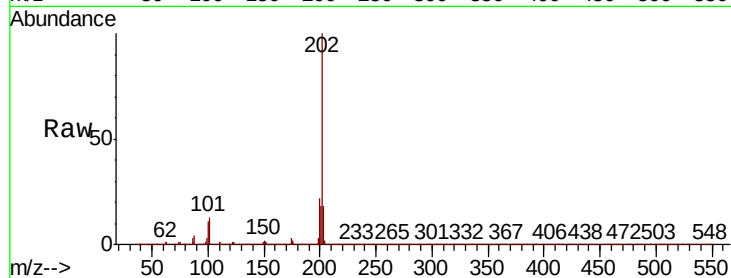
#80  
Pvrene  
Concen: 51.503 ng/ul  
RT: 12.76 min Scan# 1814  
Delta R.T. 0.00 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

Instrument :  
BNA\_P  
ClientSampleId :  
BEPF4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.4  | 9.7   | 14.5  |
| 100     | 10.7  | 7.8   | 11.8  |

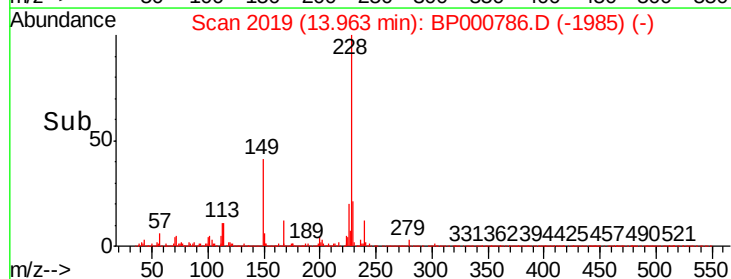
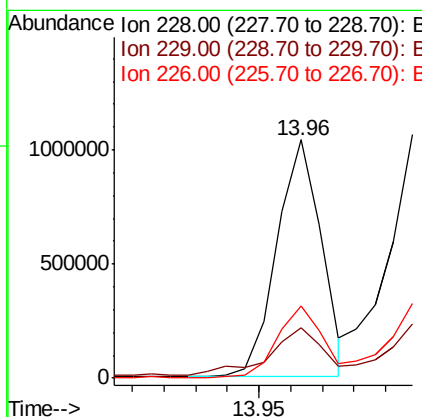
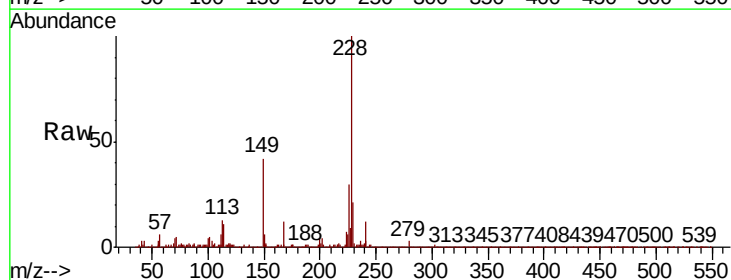
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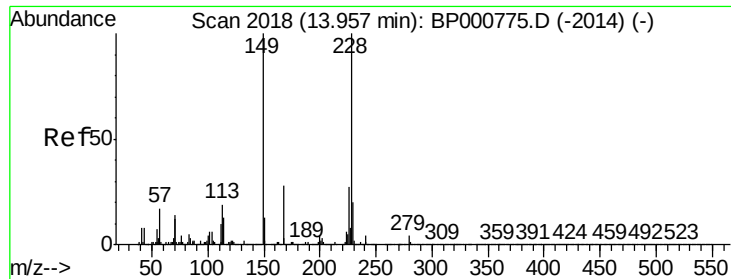
mohammad  
10/17/2019 7:59:30 AM



#83  
Benzo(a)anthracene  
Concen: 29.309 ng/ul  
RT: 13.96 min Scan# 1919  
Delta R.T. 0.00 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.1  | 15.6  | 23.4  |
| 226     | 30.1  | 21.8  | 32.8  |





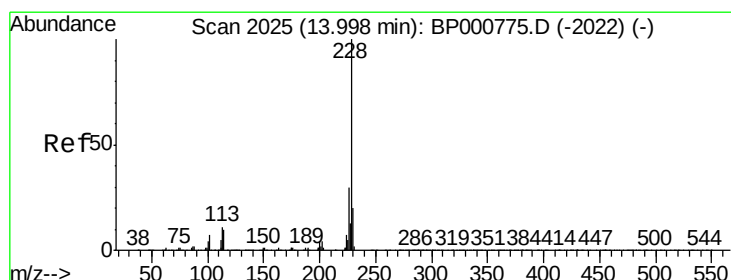
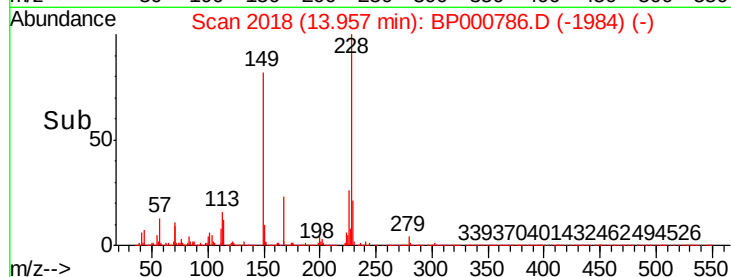
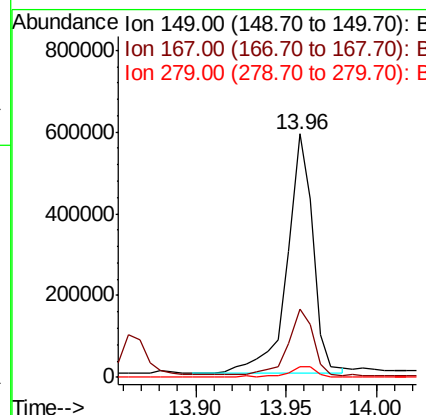
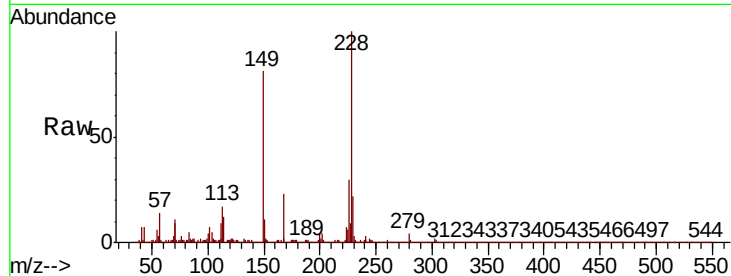
#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 29.353 ng/ul  
 RT: 13.96 min Scan# 2018  
 Delta R.T. 0.00 min  
 Lab File: BP000786.D  
 Acq: 15 Oct 2019 23:24

Instrument :  
 BNA\_P  
 ClientSampleId :  
 BEPF4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.2  | 22.3  | 33.5  |
| 279     | 4.5   | 3.2   | 4.8   |

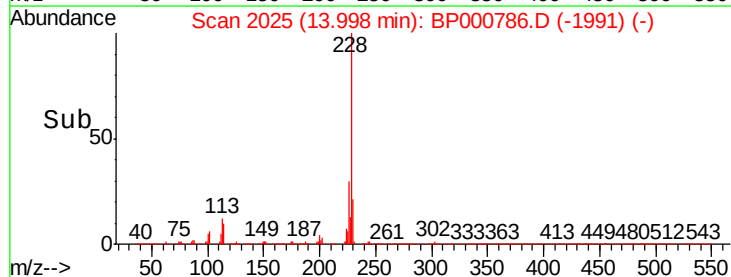
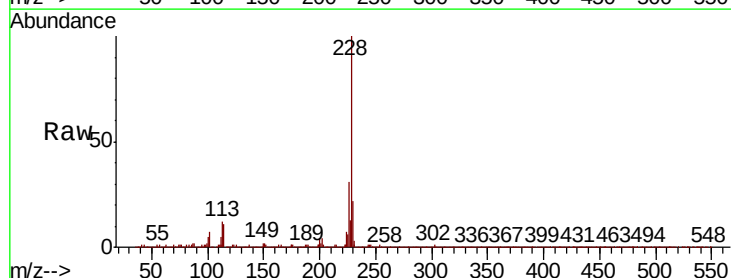
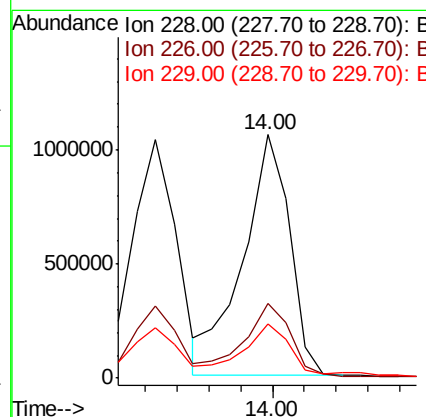
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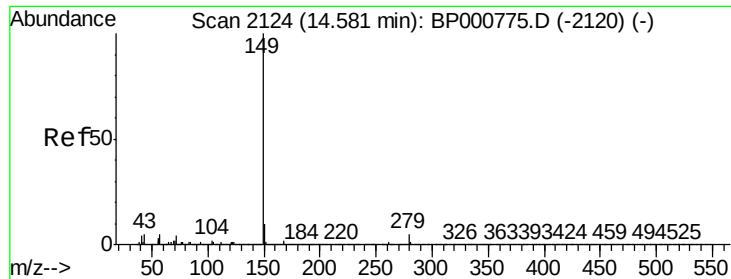
mohammad  
 10/17/2019 7:59:30 AM



#85  
 Chrysene  
 Concen: 33.351 ng/ul  
 RT: 14.00 min Scan# 2025  
 Delta R.T. 0.00 min  
 Lab File: BP000786.D  
 Acq: 15 Oct 2019 23:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 24.2  | 36.4  |
| 229     | 22.2  | 15.8  | 23.6  |





#87

Di-n-octyl phthalate

Concen: 1.795 ng/ul

RT: 14.57 min Scan# 2123

Delta R.T. -0.01 min

Lab File: BP000786.D

Acq: 15 Oct 2019 23:24

Instrument :

BNA\_P

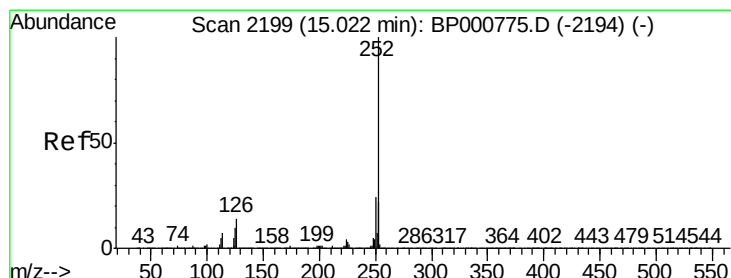
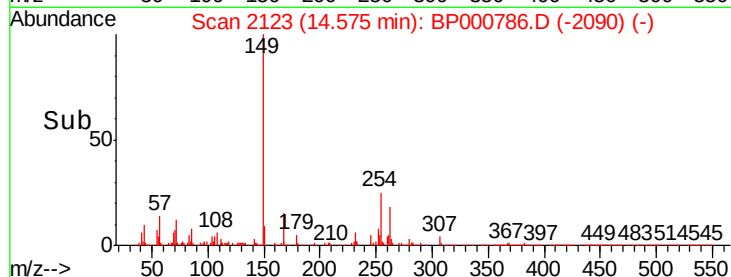
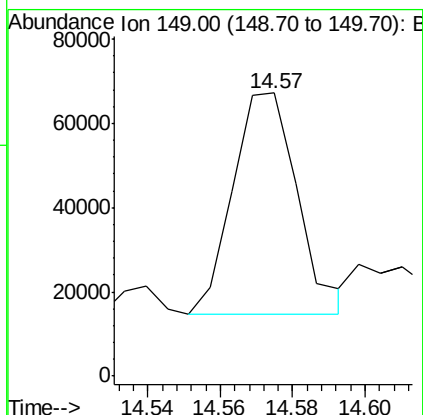
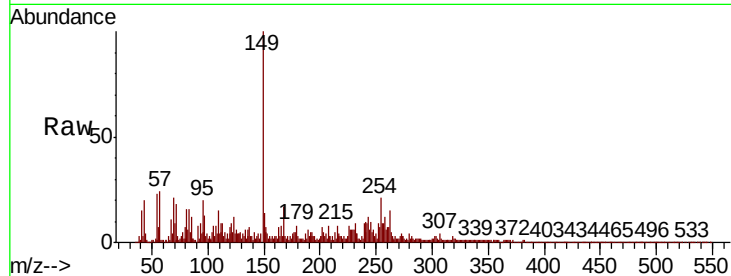
ClientSampleId :

BEPF4

Tgt Ion:149 Resp: 64781

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#88

Benzo(b)fluoranthene

Concen: 31.624 ng/ul

RT: 15.03 min Scan# 2200

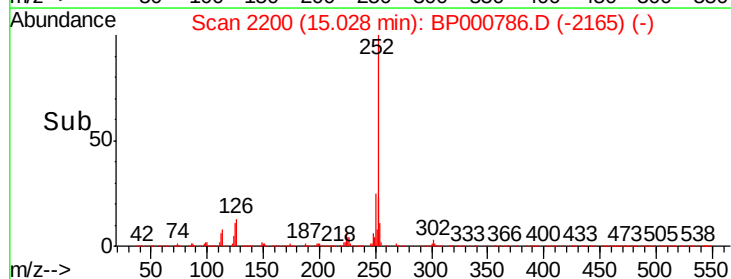
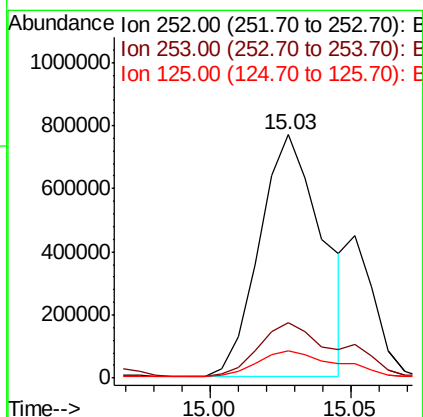
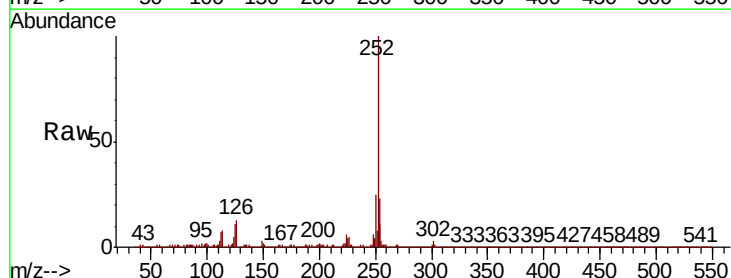
Delta R.T. 0.01 min

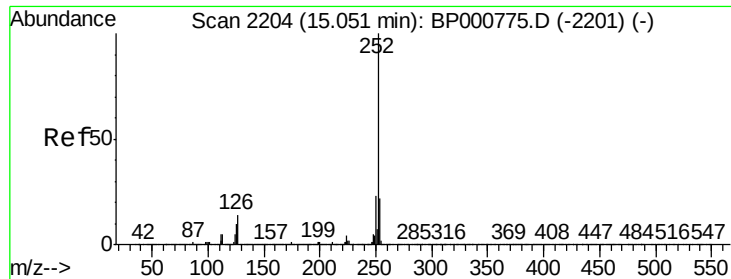
Lab File: BP000786.D

Acq: 15 Oct 2019 23:24

Tgt Ion:252 Resp: 1187812

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.9  | 17.6  | 26.4  |
| 125 | 11.4  | 8.7   | 13.1  |





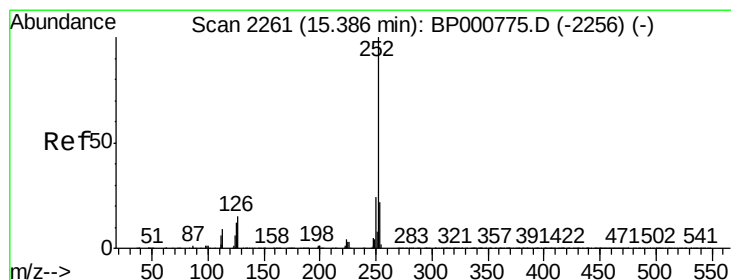
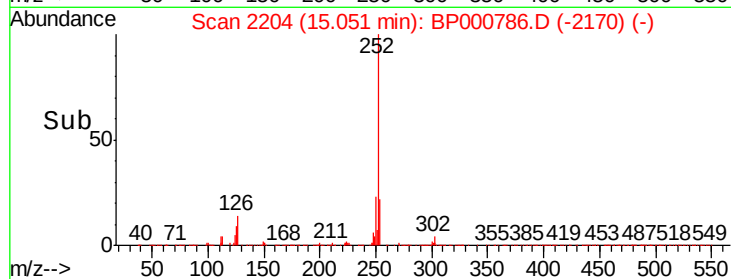
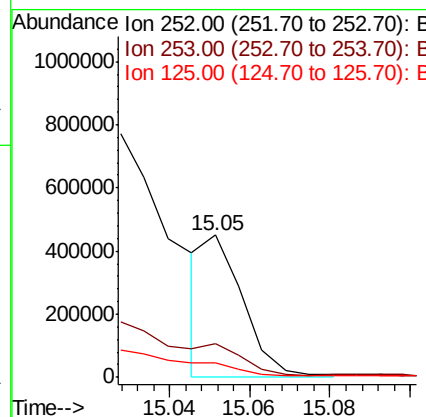
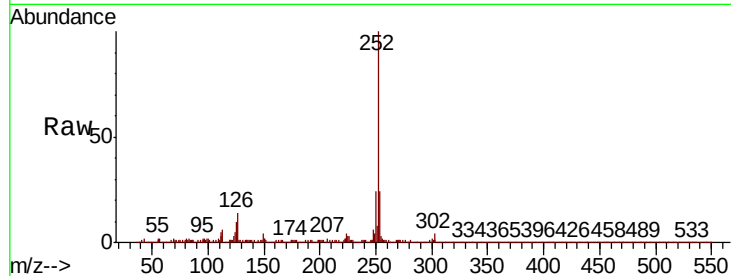
#89  
Benzo(k)fluoranthene  
Concen: 8.453 ng/ul m  
RT: 15.05 min Scan# 2204  
Delta R.T. 0.00 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

Instrument :  
BNA\_P  
ClientSampled :  
BEPF4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.8  | 26.6  |
| 125     | 10.4  | 8.2   | 12.4  |

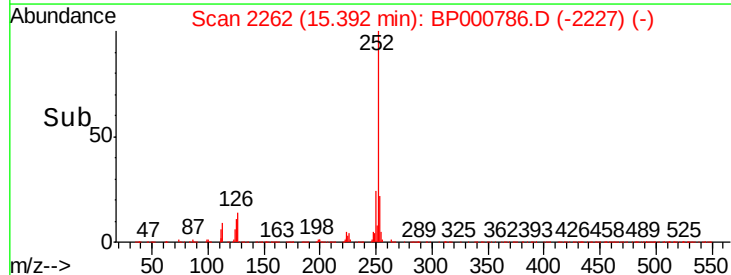
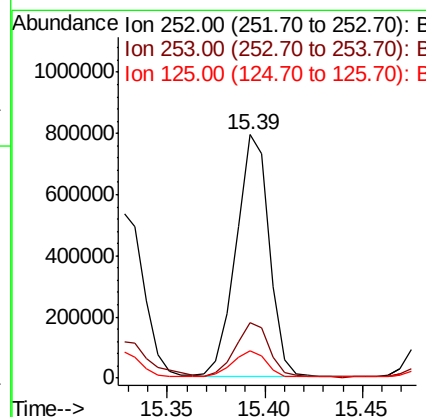
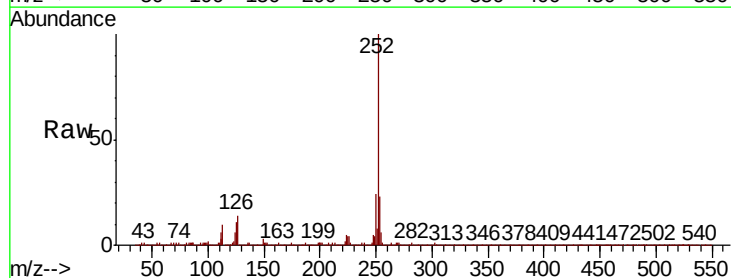
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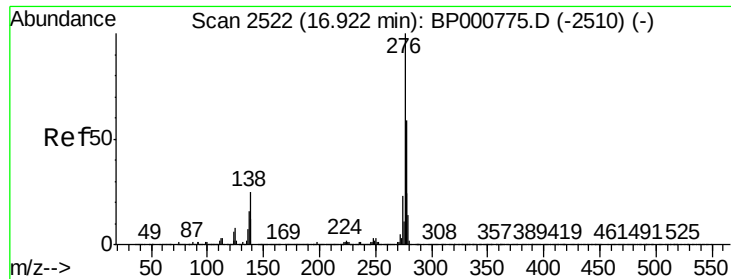
mohammad  
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#91  
Benzo(a)pyrene  
Concen: 26.278 ng/ul  
RT: 15.39 min Scan# 2262  
Delta R.T. 0.01 min  
Lab File: BP000786.D  
Acq: 15 Oct 2019 23:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.6  | 26.4  |
| 125     | 11.4  | 9.7   | 14.5  |





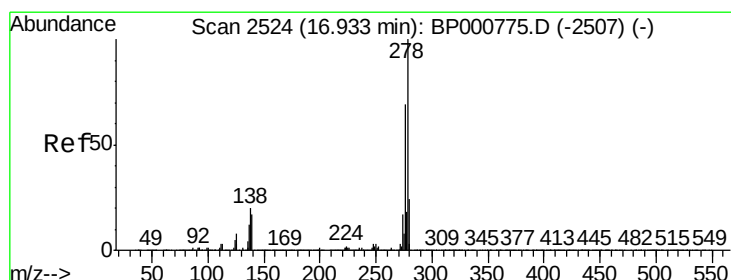
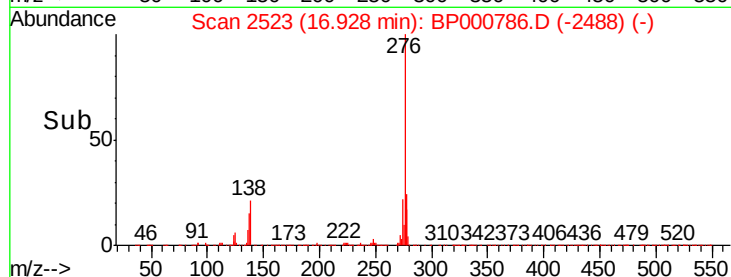
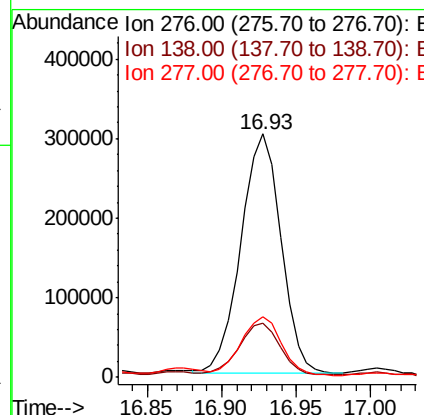
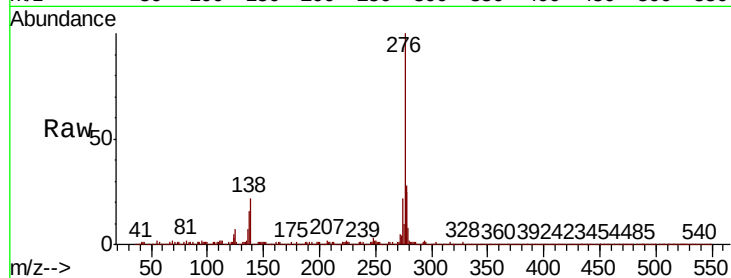
#92  
 Indeno(1,2,3-cd)pyrene  
 Concen: 13.706 ng/ul  
 RT: 16.93 min Scan# 2523  
 Delta R.T. 0.01 min  
 Lab File: BP000786.D  
 Acq: 15 Oct 2019 23:24

Instrument :  
 BNA\_P  
 ClientSampleId :  
 BEPF4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 558727 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 22.4  | 20.0  | 30.0   |
| 277       | 25.0  | 19.8  | 29.8   |

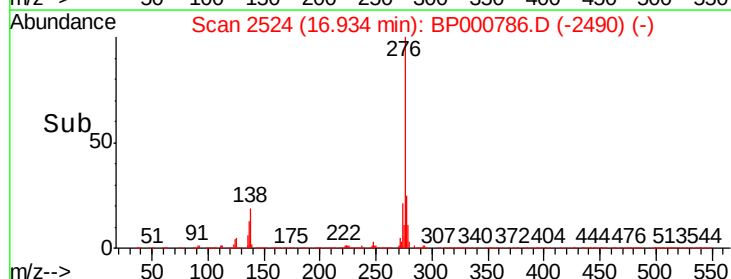
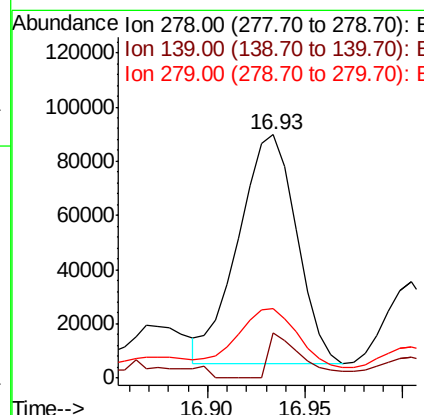
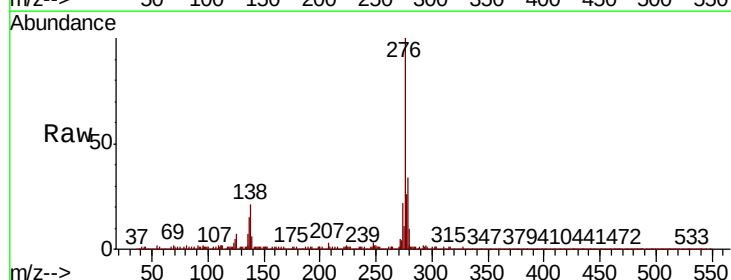
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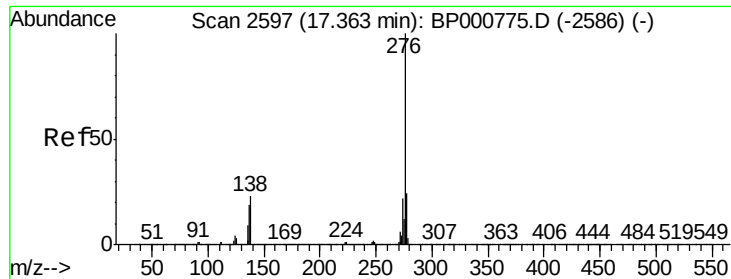
mohammad  
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#93  
 Dibenzo(a,h)anthracene  
 Concen: 5.249 ng/ul  
 RT: 16.93 min Scan# 2524  
 Delta R.T. 0.00 min  
 Lab File: BP000786.D  
 Acq: 15 Oct 2019 23:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 175383 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 18.6  | 14.2  | 21.4   |
| 279       | 28.6  | 19.2  | 28.8   |





#94

Benzo(a,h,i)perylene

Concen: 17.231 ng/ul

RT: 17.37 min Scan# 2599

Delta R.T. 0.01 min

Lab File: BP000786.D

Acq: 15 Oct 2019 23:24

Instrument :

BNA\_P

ClientSampleId :

BEPF4

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 276  | Resp: | 584831 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 22.1 | 18.4  | 27.6   |
| 277       | 24.6 | 19.4  | 29.0   |

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