

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030920\  
 Data File : BN010148.D  
 Acq On : 09 Mar 2020 16:03  
 Operator : CG/JU  
 Sample : L1779-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 OUTFALL001-200303

Manual Integrations  
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 3/10/2020 2:45:43 PM

Quant Time: Mar 09 17:35:58 2020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN021920.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Feb 19 15:57:43 2020

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.37  | 152  | 912      | 0.40 | ng    | -0.05    |
| 7) Naphthalene-d8         | 10.13 | 136  | 3313     | 0.40 | ng    | -0.05    |
| 13) Acenaphthene-d10      | 14.00 | 164  | 2195     | 0.40 | ng    | -0.06    |
| 19) Phenanthrene-d10      | 16.78 | 188  | 4715     | 0.40 | ng    | -0.03    |
| 27) Chrysene-d12          | 21.00 | 240  | 4582     | 0.40 | ng    | -0.03    |
| 34) Perylene-d12          | 23.10 | 264  | 4210     | 0.40 | ng    | -0.04    |

#### System Monitoring Compounds

|                             |       |     |      |      |    |       |
|-----------------------------|-------|-----|------|------|----|-------|
| 4) 2-Fluorophenol           | 5.07  | 112 | 82   | 0.04 | ng | -0.02 |
| 5) Phenol-d6                | 6.62  | 99  | 158  | 0.06 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.55  | 82  | 998  | 0.36 | ng | -0.04 |
| 11) 2-Methylnaphthalene-d10 | 11.71 | 152 | 1911 | 0.30 | ng | -0.07 |
| 14) 2,4,6-Tribromophenol    | 15.56 | 330 | 13   | 0.02 | ng | -0.02 |
| 15) 2-Fluorobiphenyl        | 12.62 | 172 | 3143 | 0.38 | ng | -0.07 |
| 25) Fluoranthene-d10        | 18.83 | 212 | 4589 | 0.28 | ng | -0.03 |
| 29) Terphenyl-d14           | 19.43 | 244 | 4355 | 0.40 | ng | -0.05 |

#### Target Compounds

|                                |       |     |      |       |    | Qvalue |
|--------------------------------|-------|-----|------|-------|----|--------|
| 9) Naphthalene                 | 10.18 | 128 | 281  | 0.031 | ng | # 29   |
| 12) 2-Methylnaphthalene        | 11.79 | 142 | 172  | 0.028 | ng | # 83   |
| 31) Chrysene                   | 21.05 | 228 | 385  | 0.022 | ng | # 76   |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149 | 567  | 0.076 | ng | 99     |
| 35) Benzo(b)fluoranthene       | 22.50 | 252 | 459  | 0.030 | ng | # 14   |
| 36) Benzo(k)fluoranthene       | 22.54 | 252 | 445  | 0.027 | ng | # 4    |
| 39) Benzo(g,h,i)perylene       | 25.79 | 276 | 345m | 0.023 | ng |        |

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

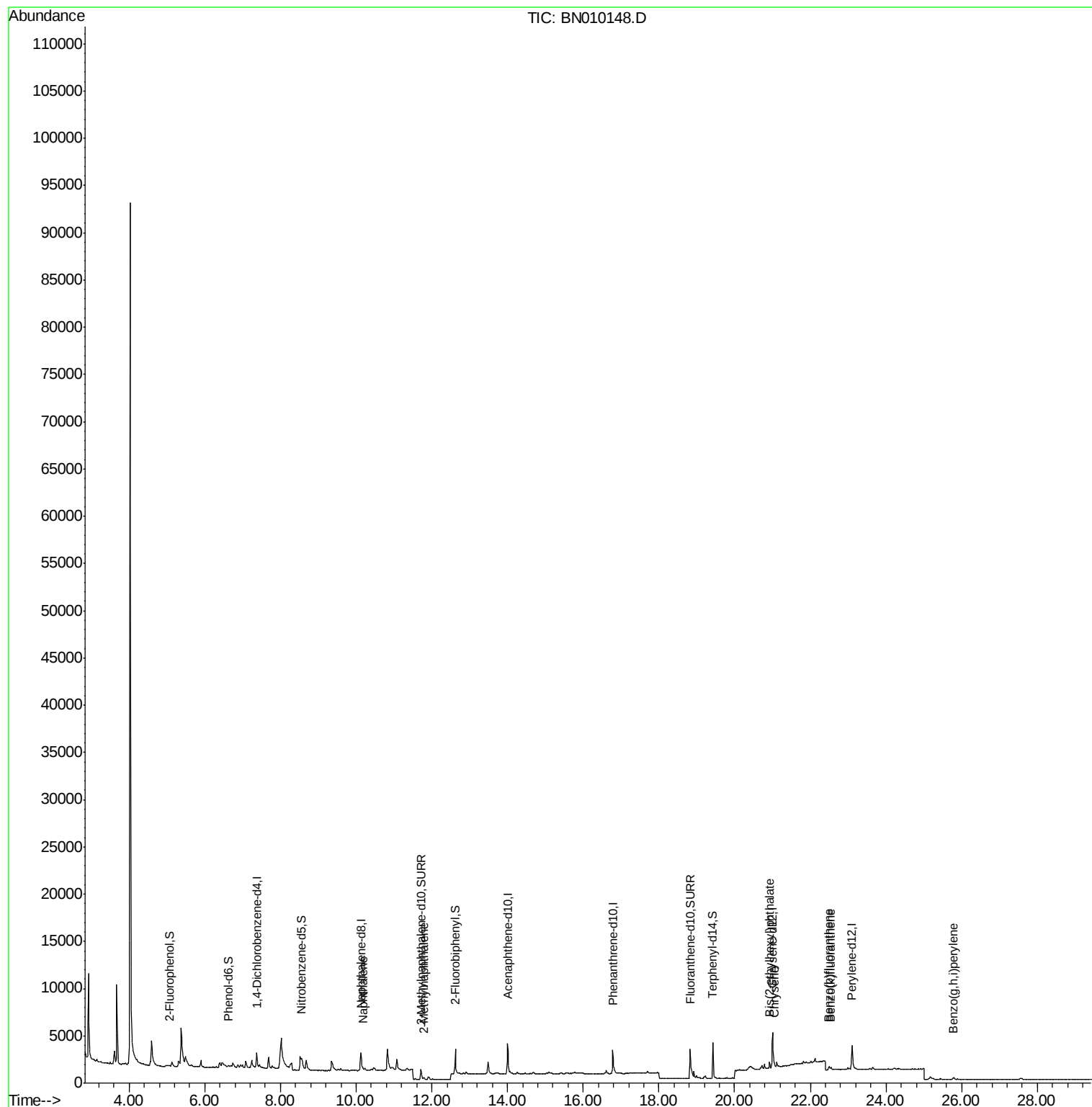
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030920\  
Data File : BN010148.D  
Acq On : 09 Mar 2020 16:03  
Operator : CG/JU  
Sample : L1779-02  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN021920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 19 15:57:43 2020  
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#1

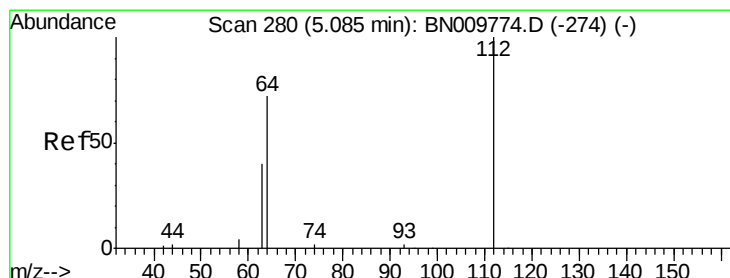
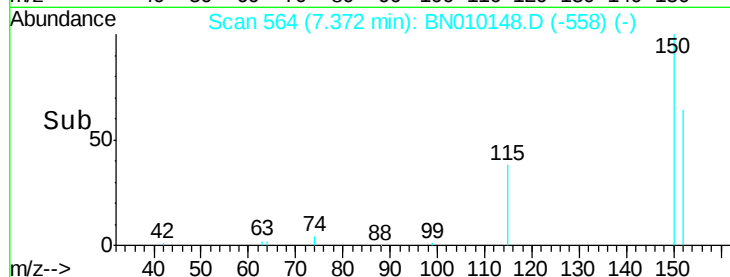
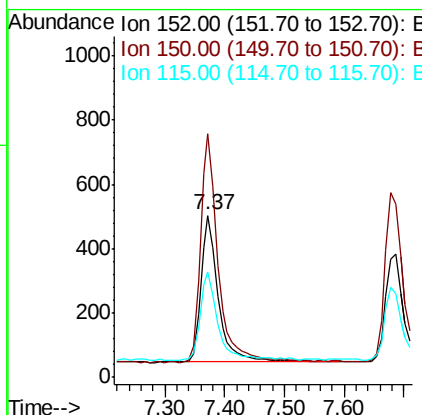
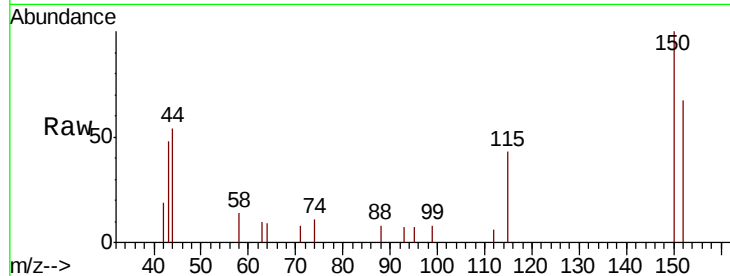
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.37 min Scan# 564  
Delta R.T. -0.05 min  
Lab File: BN010148.D  
Acq: 09 Mar 2020 16:03

Instrument :  
BNA\_N  
ClientSampleId :  
OUTFALL001-200303

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.2 | 120.6 | 181.0 |
| 115     | 64.7  | 51.2  | 76.8  |

Manual Integrations  
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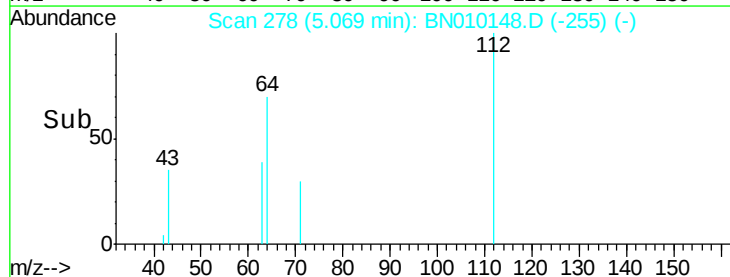
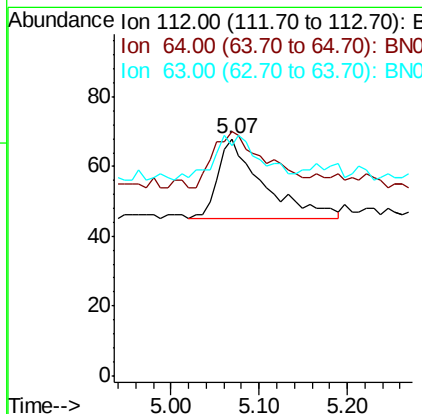
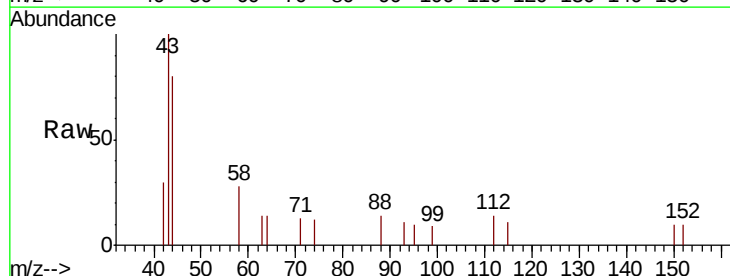
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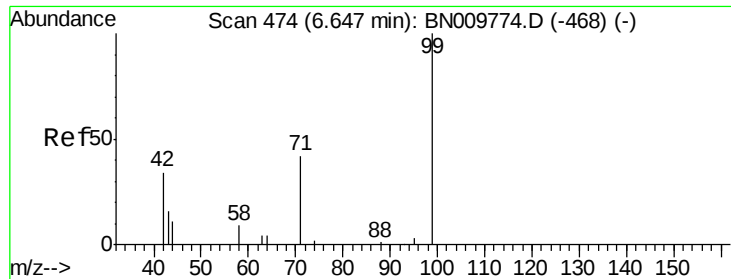


#4

2-Fluorophenol  
Concen: 0.040 ng  
RT: 5.07 min Scan# 278  
Delta R.T. -0.02 min  
Lab File: BN010148.D  
Acq: 09 Mar 2020 16:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 80.5  | 65.8  | 98.6  |
| 63      | 57.3  | 38.7  | 58.1  |





#5

Phenol-d6

Concen: 0.064 ng

RT: 6.62 min Scan# 471

Delta R.T. -0.02 min

Lab File: BN010148.D

Acq: 09 Mar 2020 16:03

Instrument :

BNA\_N

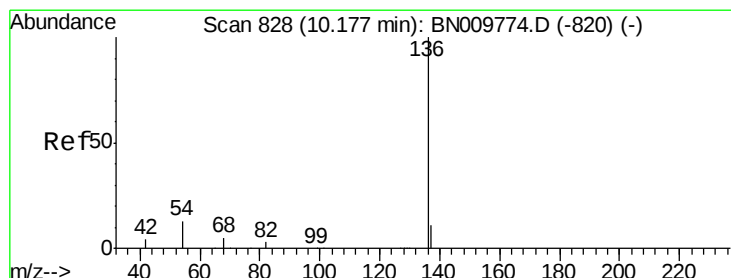
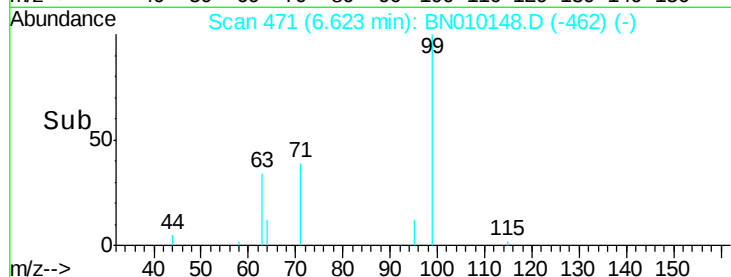
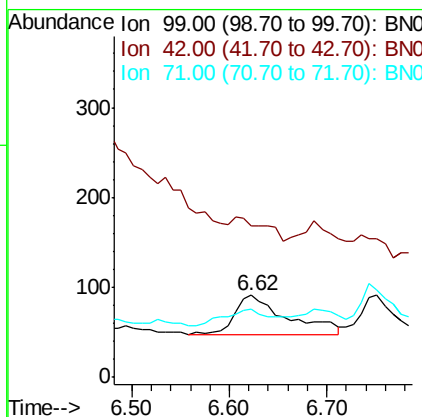
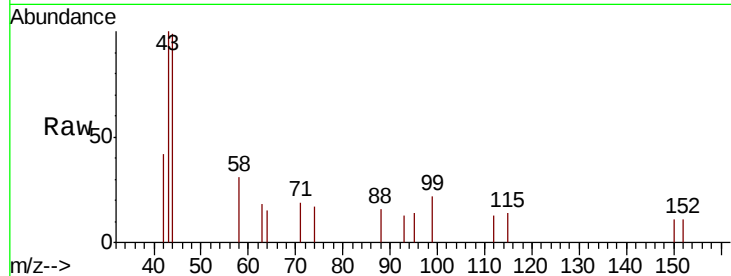
ClientSampleId :

OUTFALL001-200303

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 158   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 0.0   | 30.8  | 46.2# |
| 71       | 33.5  | 34.9  | 52.3# |

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#7

Naphthalene-d8

Concen: 0.400 ng

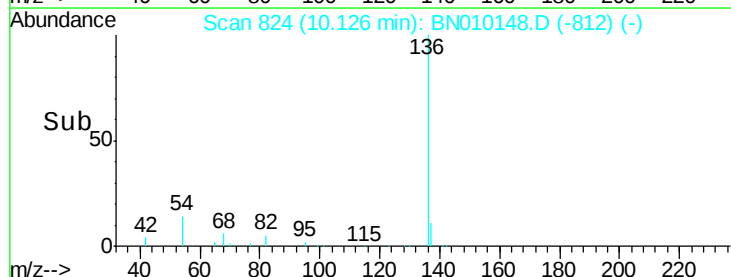
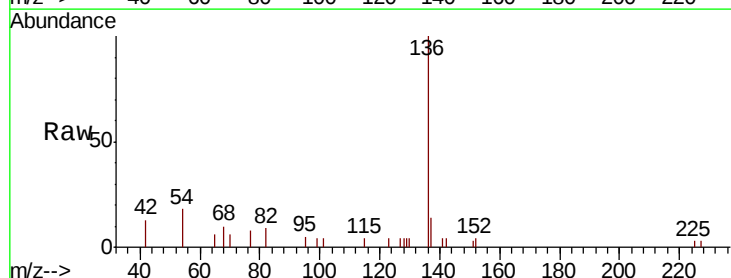
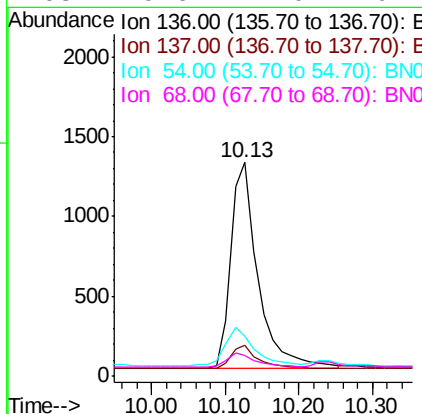
RT: 10.13 min Scan# 824

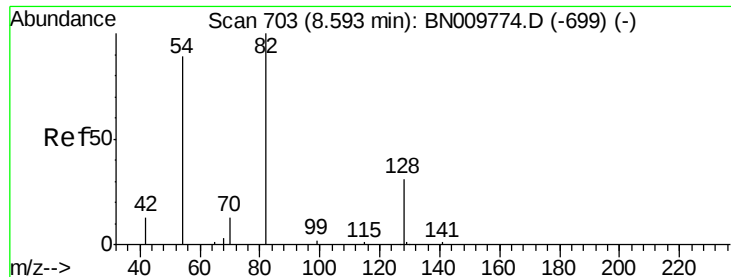
Delta R.T. -0.05 min

Lab File: BN010148.D

Acq: 09 Mar 2020 16:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 3313  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 14.2  | 11.3  | 16.9  |
| 54       | 18.5  | 13.4  | 20.2  |
| 68       | 9.6   | 7.0   | 10.4  |





#8

Nitrobenzene-d5

Concen: 0.362 ng

RT: 8.55 min Scan# 700

Delta R.T. -0.04 min

Lab File: BN010148.D

Acq: 09 Mar 2020 16:03

Instrument :

BNA\_N

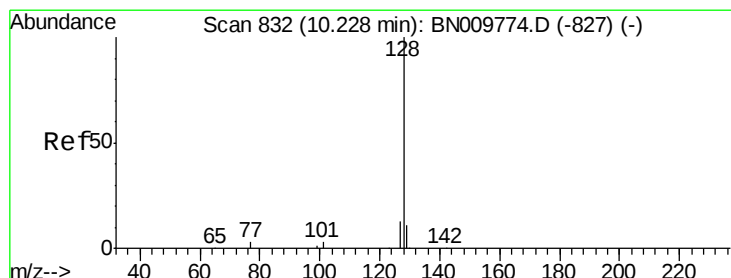
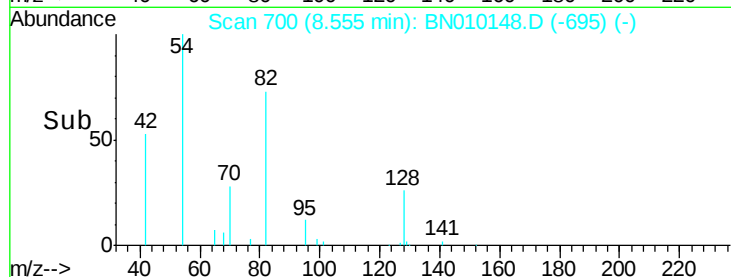
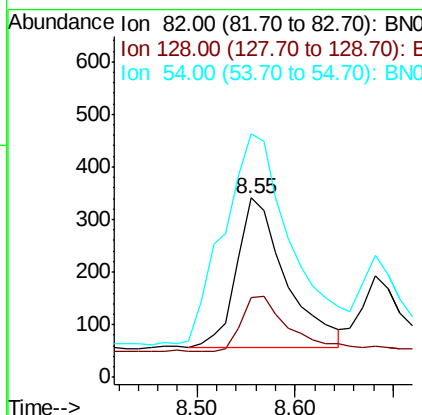
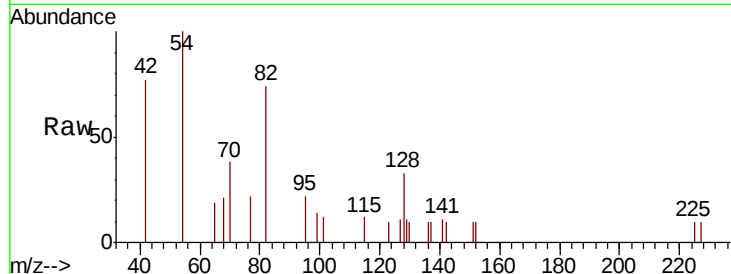
ClientSampleId :

OUTFALL001-200303

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 82    | Resp: | 998    |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.6  | 32.5  | 48.7   |
| 54       | 135.8 | 73.5  | 110.3# |

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#9

Naphthalene

Concen: 0.031 ng

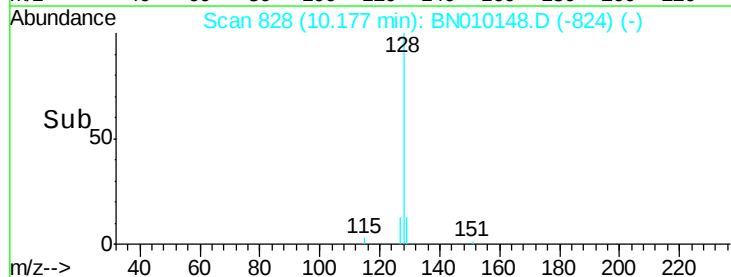
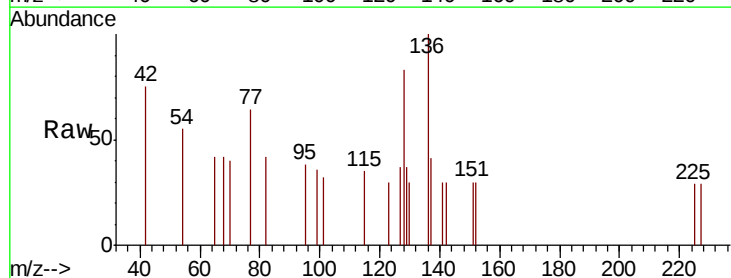
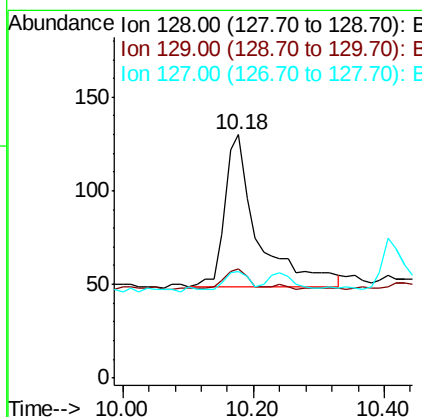
RT: 10.18 min Scan# 828

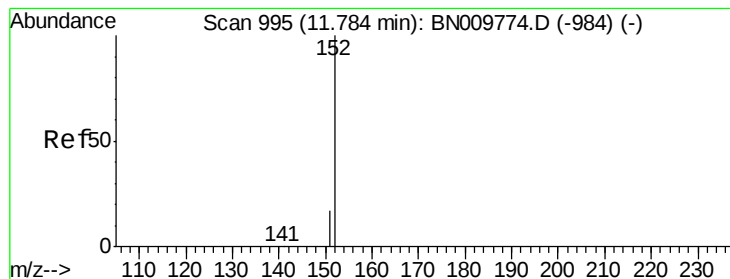
Delta R.T. -0.05 min

Lab File: BN010148.D

Acq: 09 Mar 2020 16:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 281   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 44.6  | 11.1  | 16.7# |
| 127      | 43.8  | 12.6  | 19.0# |





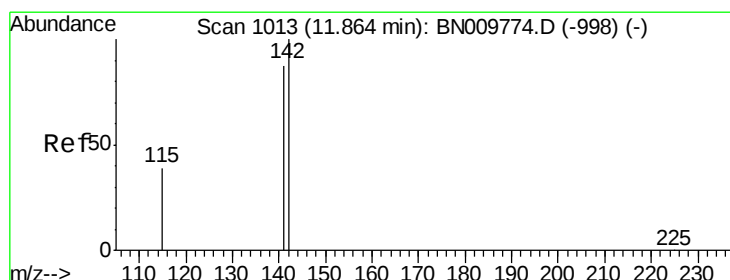
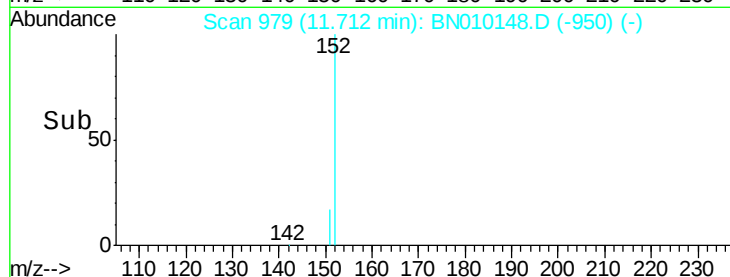
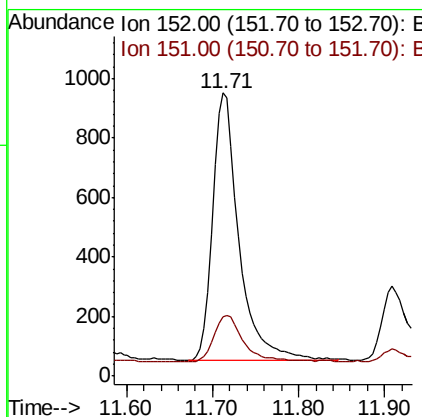
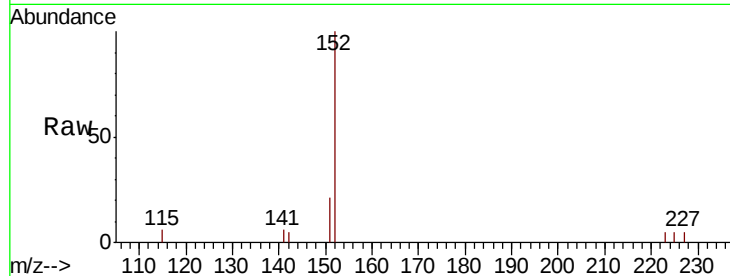
#11  
2-Methylnaphthalene-d10  
Concen: 0.298 ng  
RT: 11.71 min Scan# 979  
Delta R.T. -0.07 min  
Lab File: BN010148.D  
Acq: 09 Mar 2020 16:03

Instrument :  
BNA\_N  
ClientSampleId :  
OUTFALL001-200303

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.8  | 15.1  | 22.7  |

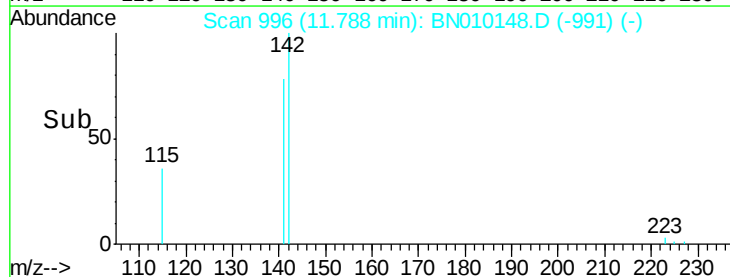
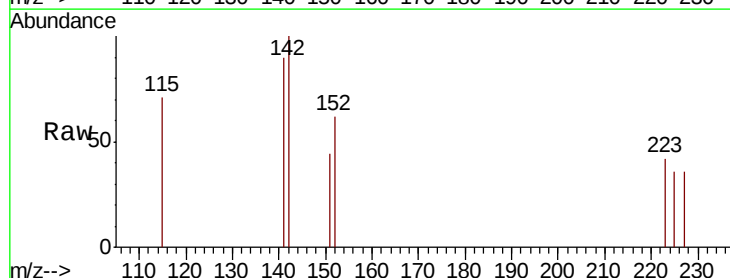
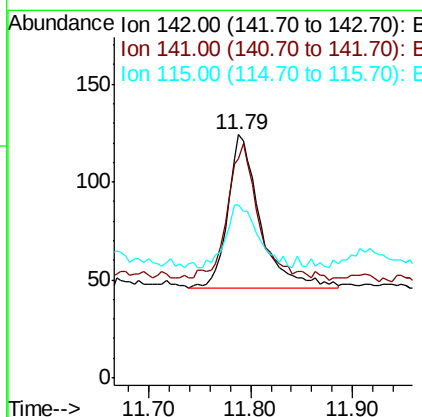
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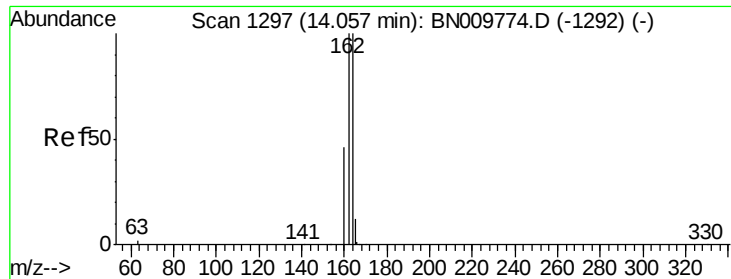
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#12  
2-Methylnaphthalene  
Concen: 0.028 ng  
RT: 11.79 min Scan# 996  
Delta R.T. -0.08 min  
Lab File: BN010148.D  
Acq: 09 Mar 2020 16:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.3  | 69.8  | 104.6 |
| 115     | 71.0  | 34.6  | 52.0# |





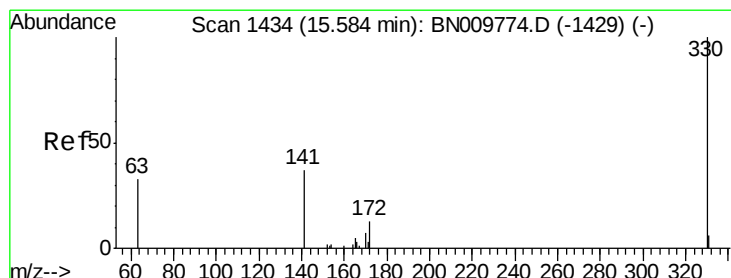
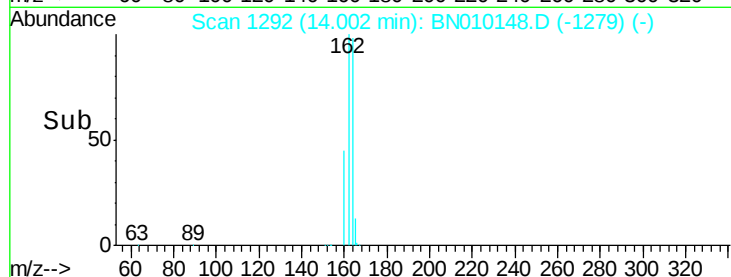
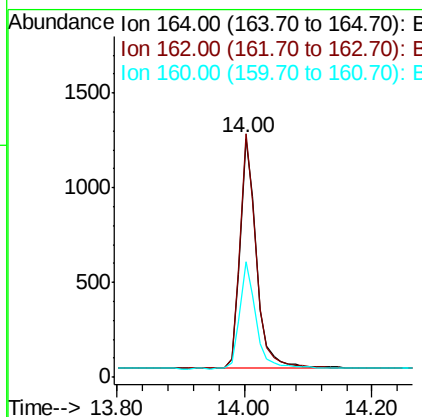
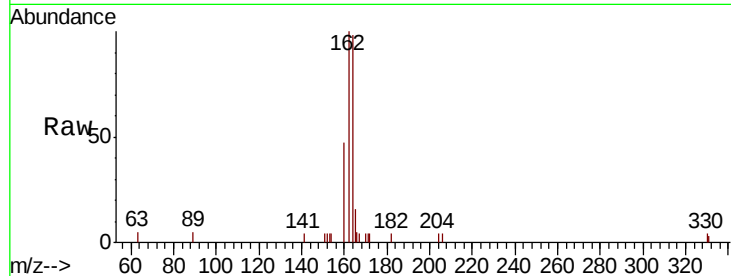
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 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.00 min Scan# 1292  
 Delta R.T. -0.06 min  
 Lab File: BN010148.D  
 Acq: 09 Mar 2020 16:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
 OUTFALL001-200303

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.9 | 79.9  | 119.9 |
| 160     | 48.2  | 38.2  | 57.2  |

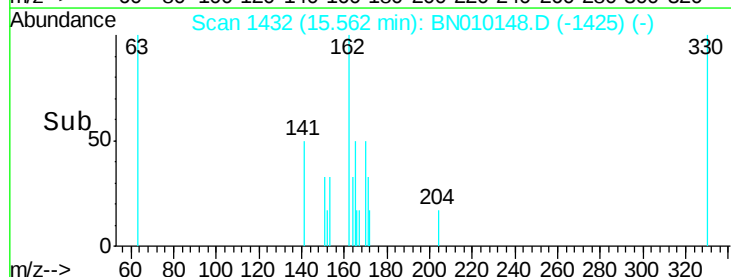
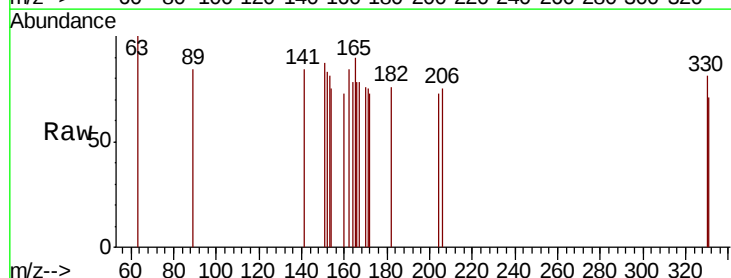
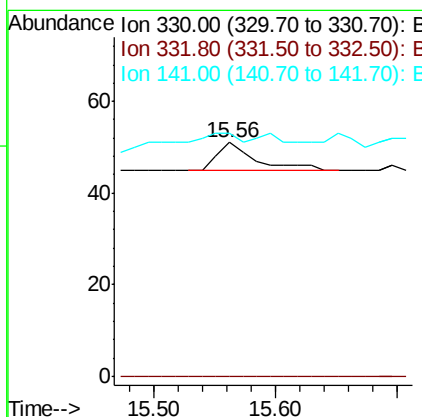
Manual Integrations  
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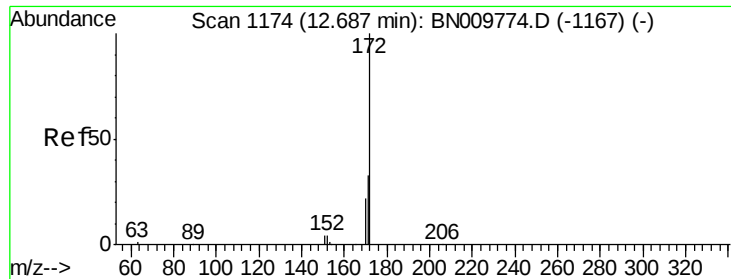
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#14  
 2,4,6-Tribromophenol  
 Concen: 0.015 ng  
 RT: 15.56 min Scan# 1432  
 Delta R.T. -0.02 min  
 Lab File: BN010148.D  
 Acq: 09 Mar 2020 16:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 115.4 | 36.8  | 55.2  |





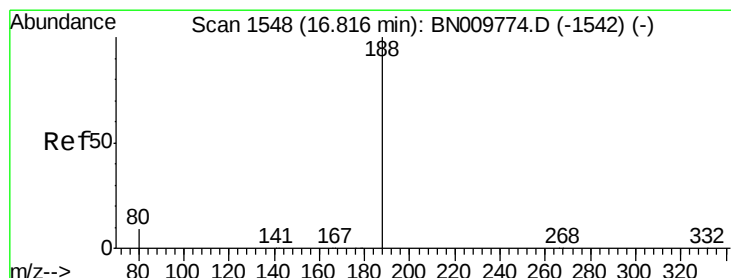
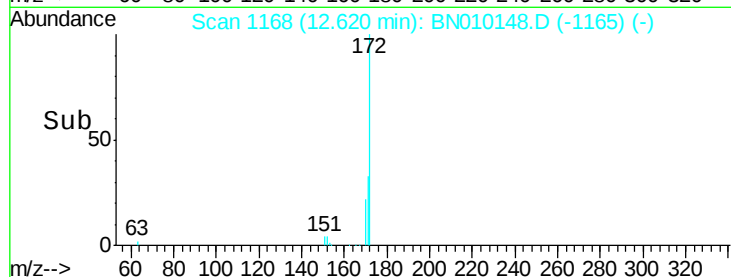
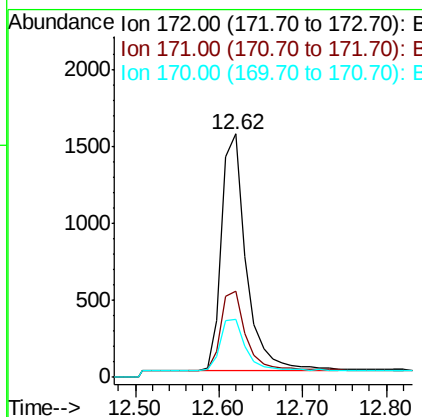
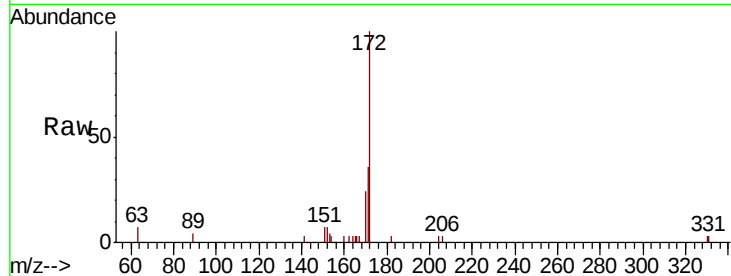
#15  
2-Fluorobiphenyl  
Concen: 0.379 ng  
RT: 12.62 min Scan# 1168  
Delta R.T. -0.07 min  
Lab File: BN010148.D  
Acq: 09 Mar 2020 16:03

Instrument :  
BNA\_N  
ClientSampleId :  
OUTFALL001-200303

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 28.7  | 43.1  |
| 170     | 24.0  | 20.1  | 30.1  |

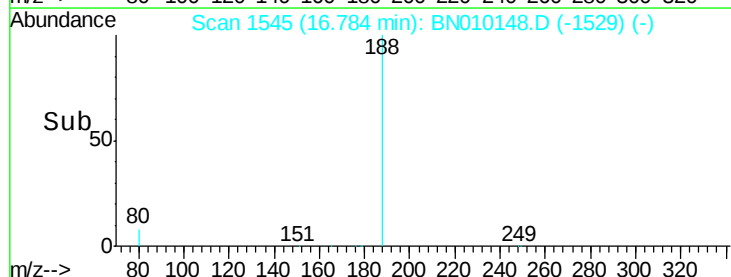
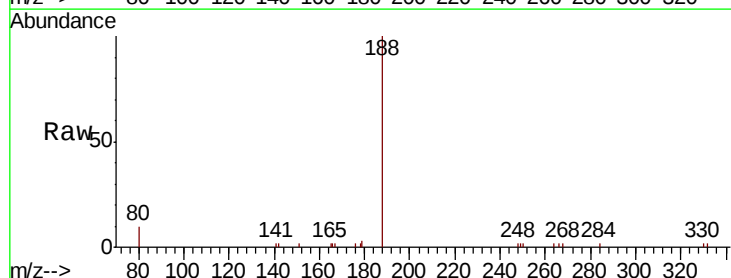
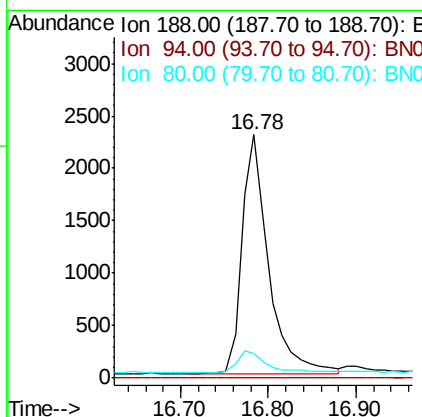
Manual Integrations  
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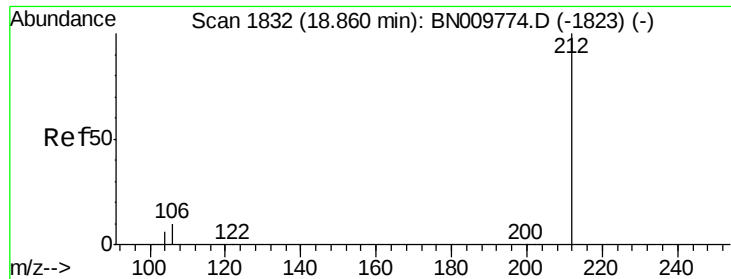
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#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.78 min Scan# 1545  
Delta R.T. -0.03 min  
Lab File: BN010148.D  
Acq: 09 Mar 2020 16:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 10.1  | 8.3   | 12.5  |





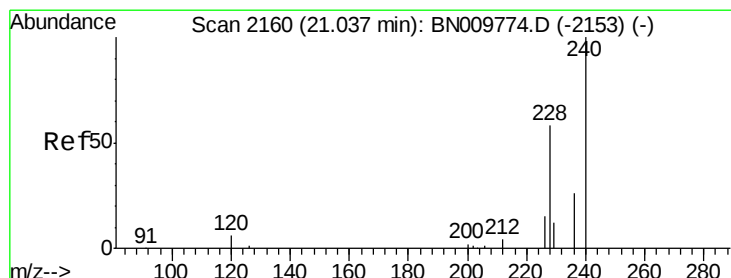
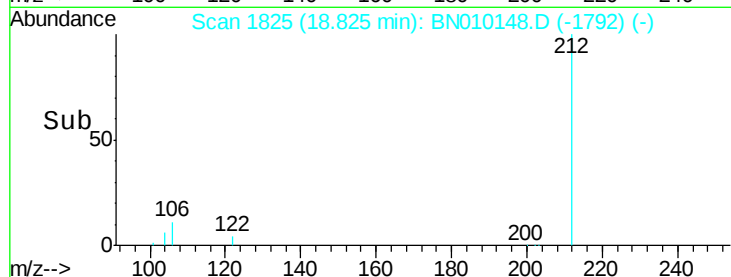
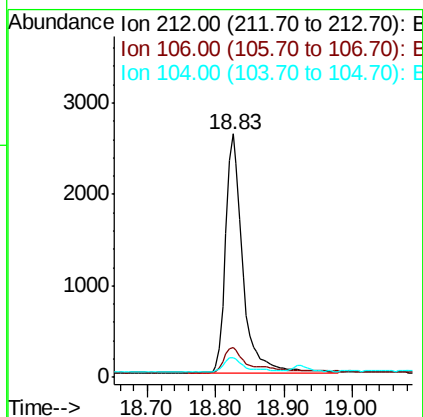
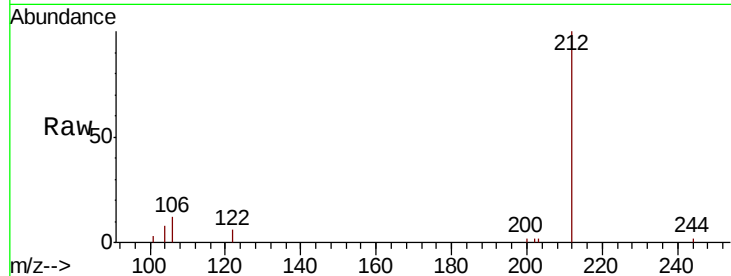
#25  
 Fluoranthene-d10  
 Concen: 0.281 ng  
 RT: 18.83 min Scan# 1825  
 Delta R.T. -0.03 min  
 Lab File: BN010148.D  
 Acq: 09 Mar 2020 16:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
 OUTFALL001-200303

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 11.2  | 8.4   | 12.6  |
| 104     | 7.5   | 4.8   | 7.2   |

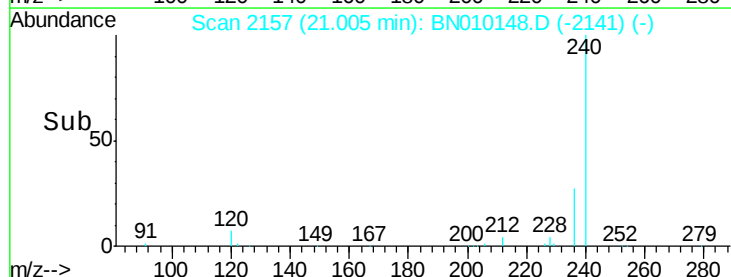
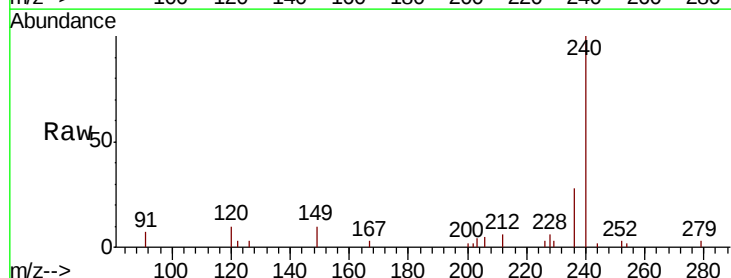
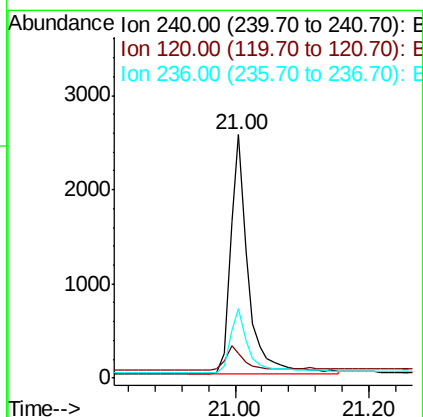
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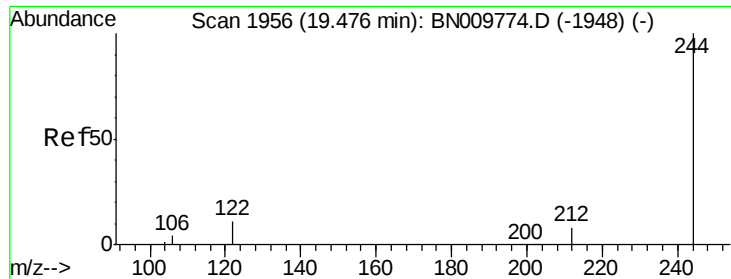
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#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.00 min Scan# 2157  
 Delta R.T. -0.03 min  
 Lab File: BN010148.D  
 Acq: 09 Mar 2020 16:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.2  | 7.9   | 11.9  |
| 236     | 28.3  | 22.0  | 33.0  |





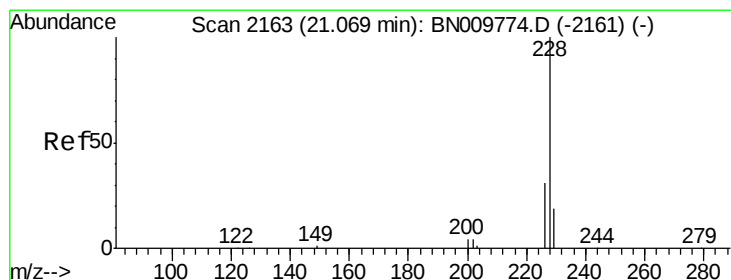
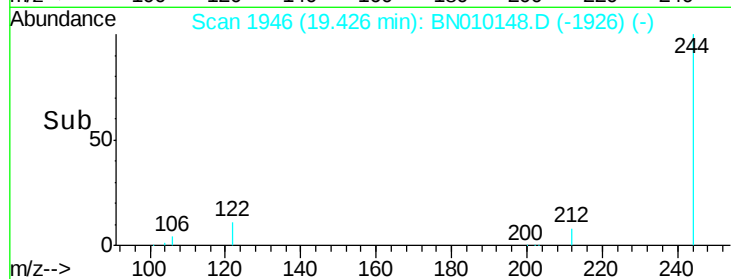
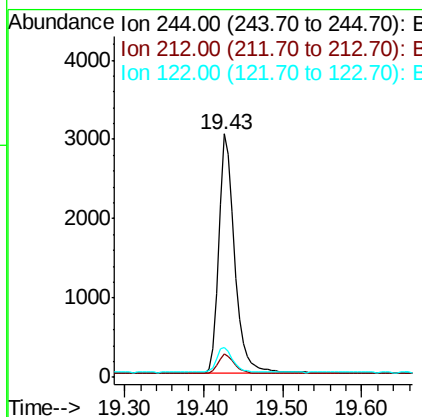
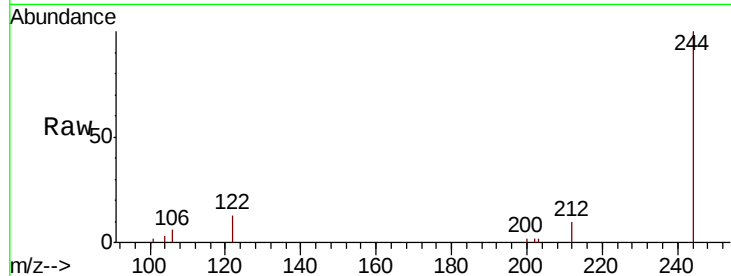
#29  
 Terphenyl-d14  
 Concen: 0.398 ng  
 RT: 19.43 min Scan# 1946  
 Delta R.T. -0.05 min  
 Lab File: BN010148.D  
 Acq: 09 Mar 2020 16:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
 OUTFALL001-200303

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.8   | 8.0   | 12.0  |
| 122     | 12.5  | 10.0  | 15.0  |

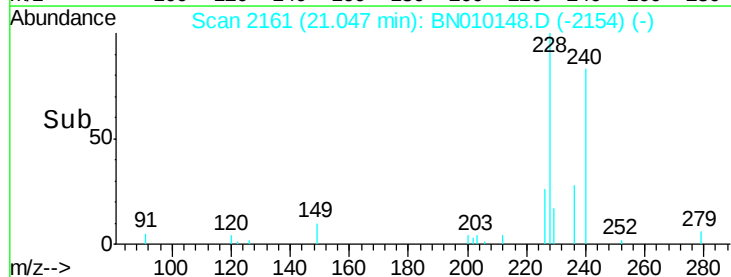
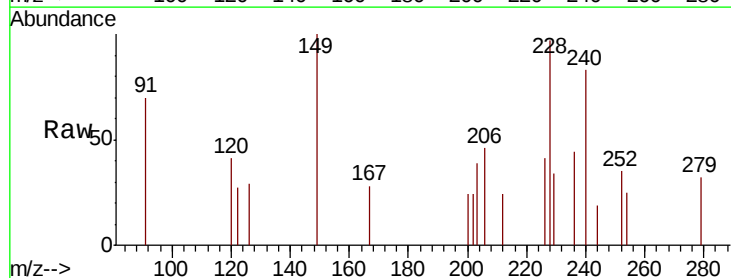
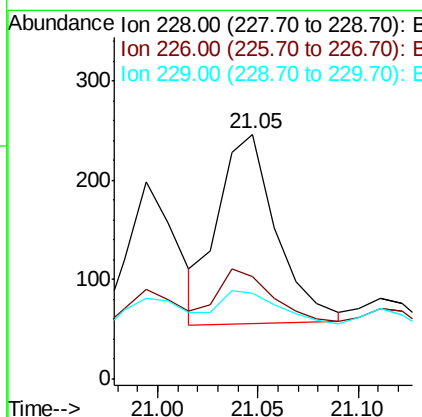
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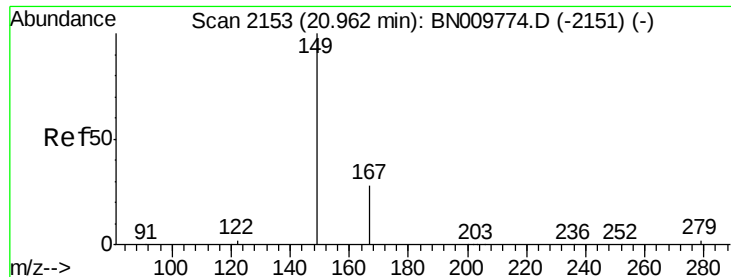
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#31  
 Chrysene  
 Concen: 0.022 ng  
 RT: 21.05 min Scan# 2161  
 Delta R.T. -0.02 min  
 Lab File: BN010148.D  
 Acq: 09 Mar 2020 16:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 41.9  | 24.8  | 37.2# |
| 229     | 35.0  | 16.4  | 24.6# |





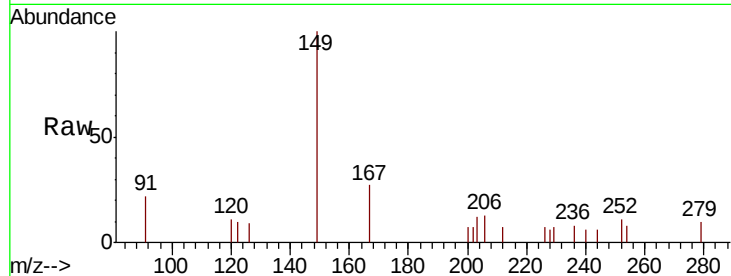
#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.076 ng  
 RT: 20.92 min Scan# 2149  
 Delta R.T. -0.04 min  
 Lab File: BN010148.D  
 Acq: 09 Mar 2020 16:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
 OUTFALL001-200303

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.9  | 22.7  | 34.1  |
| 279     | 4.4   | 3.1   | 4.7   |

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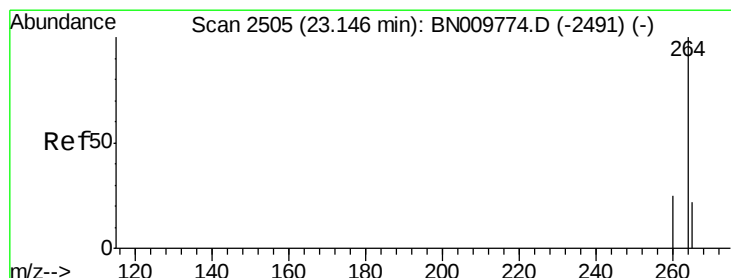
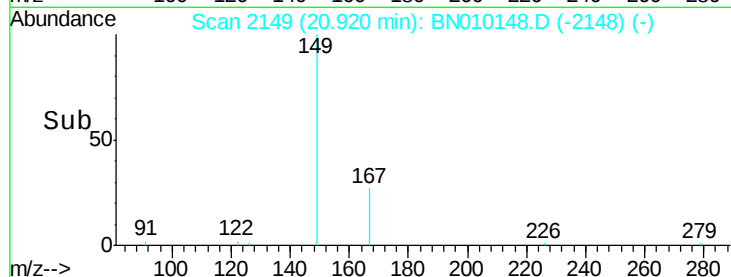
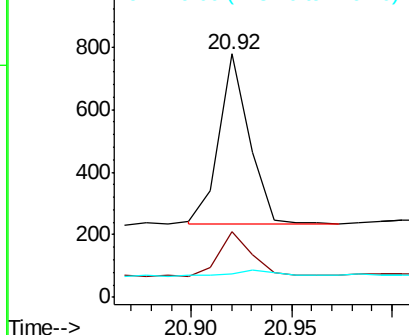


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.10 min Scan# 2492  
 Delta R.T. -0.04 min  
 Lab File: BN010148.D  
 Acq: 09 Mar 2020 16:03

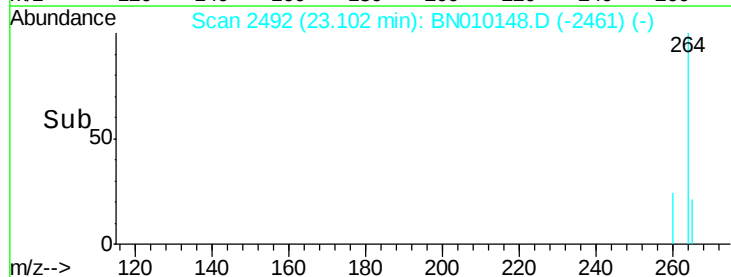
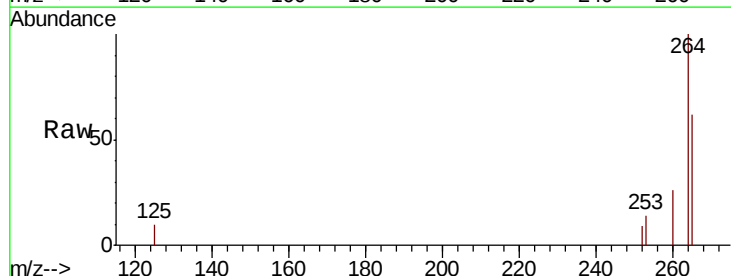
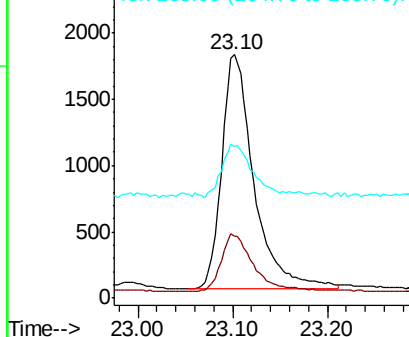
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.6  | 21.1  | 31.7  |
| 265     | 62.2  | 57.5  | 86.3  |

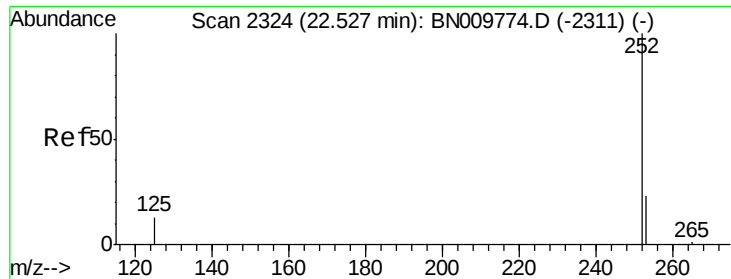
Abundance

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





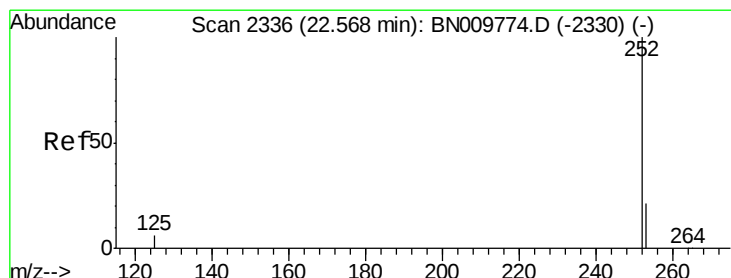
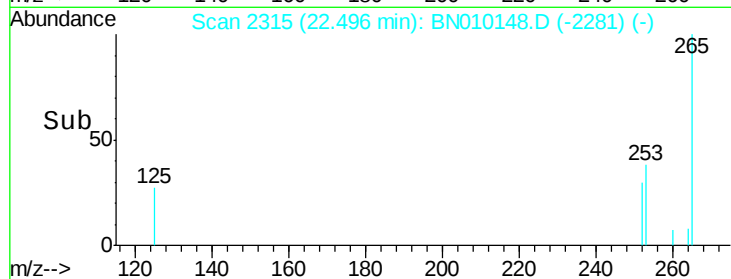
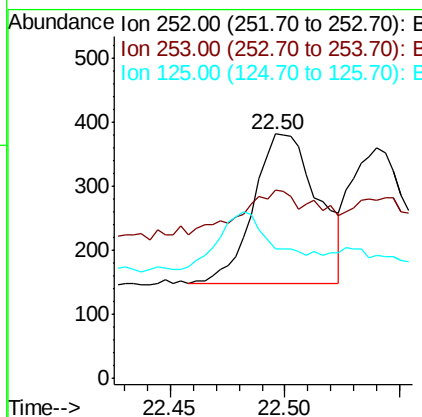
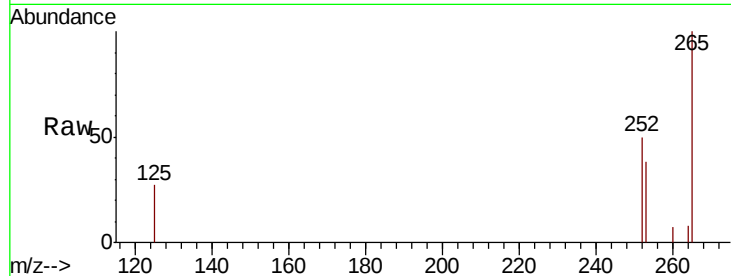
#35  
Benzo(b)fluoranthene  
Concen: 0.030 ng  
RT: 22.50 min Scan# 2315  
Delta R.T. -0.03 min  
Lab File: BN010148.D  
Acq: 09 Mar 2020 16:03

Instrument :  
BNA\_N  
ClientSampleId :  
OUTFALL001-200303

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 76.9  | 23.0  | 34.6# |
| 125     | 53.0  | 14.4  | 21.6# |

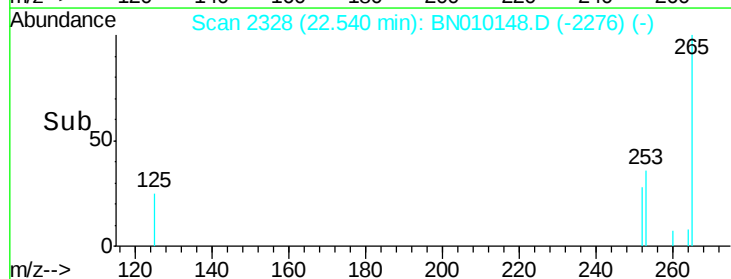
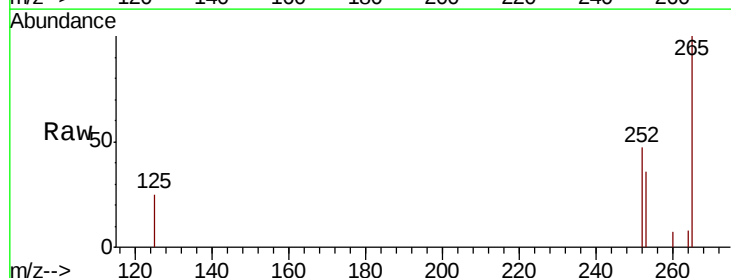
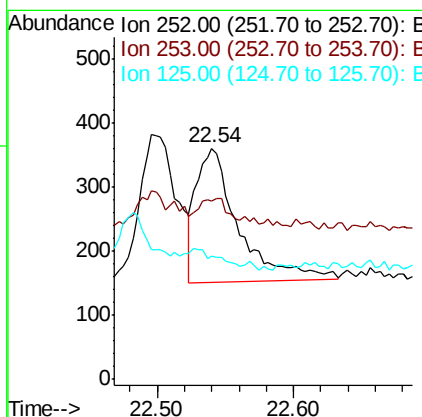
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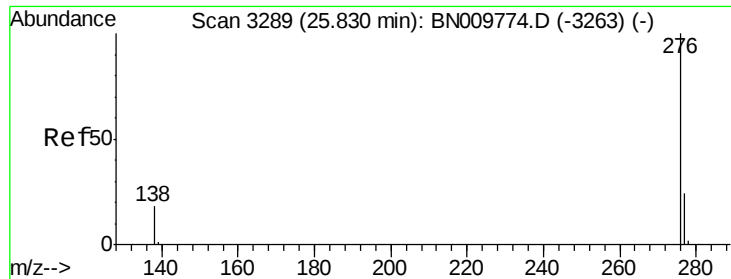
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#36  
Benzo(k)fluoranthene  
Concen: 0.027 ng  
RT: 22.54 min Scan# 2328  
Delta R.T. -0.03 min  
Lab File: BN010148.D  
Acq: 09 Mar 2020 16:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 76.9  | 22.2  | 33.2# |
| 125     | 53.3  | 10.5  | 15.7# |





#39

Benzo(a,h,i)perylene

Concen: 0.023 ng/mL

RT: 25.79 min Scan# 3277

Delta R.T. -0.04 min

Lab File: BN010148.D

Acq: 09 Mar 2020 16:03

Instrument :

BNA\_N

ClientSampleId :

OUTFALL001-200303

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 345   |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 59.0  | 21.4  | 32.0# |
| 138       | 63.3  | 16.6  | 24.8# |

Manual Integrations  
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