

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE110819\  
 Data File : BE100714.D  
 Acq On : 8 Nov 2019 12:40  
 Operator : JU  
 Sample : K5725-03DL 25X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SO-3DL

Manual Integrations  
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 11/11/2019 8:09:47 AM

Quant Time: Nov 08 13:33:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Oct 23 16:49:33 2019

Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.85  | 152  | 1957     | 0.40  | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.64 | 136  | 9846     | 0.40  | ng    | 0.01     |
| 13) Acenaphthene-d10        | 14.49 | 164  | 8784     | 0.40  | ng    | 0.01     |
| 19) Phenanthrene-d10        | 17.20 | 188  | 15064    | 0.40  | ng    | 0.00     |
| 27) Chrysene-d12            | 21.37 | 240  | 15930    | 0.40  | ng    | 0.01     |
| 34) Perylene-d12            | 23.85 | 264  | 17893    | 0.40  | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.46  | 112  | 118      | 0.02  | ng    | 0.01     |
| 5) Phenol-d6                | 7.02  | 99   | 273      | 0.03  | ng    | 0.01     |
| 8) Nitrobenzene-d5          | 8.99  | 82   | 1441m    | 0.24  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.24 | 152  | 1032m    | 0.07  | ng    | 0.01     |
| 14) 2,4,6-Tribromophenol    | 15.96 | 330  | 18       | 0.01  | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 13.16 | 172  | 316      | 0.01  | ng    | 0.06     |
| 25) Fluoranthene-d10        | 19.23 | 212  | 4947     | 0.03  | ng    | 0.01     |
| 29) Terphenyl-d14           | 19.82 | 244  | 1023m    | 0.03  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 9) Naphthalene              | 10.69 | 128  | 42897    | 0.414 | ng    | # 92     |
| 12) 2-Methylnaphthalene     | 12.31 | 142  | 4559m    | 0.258 | ng    |          |
| 18) Fluorene                | 15.51 | 166  | 21740m   | 0.670 | ng    |          |
| 23) Phenanthrene            | 17.24 | 178  | 110454   | 2.666 | ng    | # 76     |
| 26) Fluoranthene            | 19.26 | 202  | 177097   | 3.275 | ng    | 99       |
| 28) Pyrene                  | 19.62 | 202  | 220902m  | 4.963 | ng    |          |
| 30) Benzo(a)anthracene      | 21.35 | 228  | 122117   | 2.350 | ng    | 95       |
| 31) Chrysene                | 21.40 | 228  | 91925m   | 1.770 | ng    |          |
| 33) Indeno(1,2,3-cd)pyrene  | 26.47 | 276  | 90186    | 1.413 | ng    | 96       |
| 35) Benzo(b)fluoranthene    | 23.09 | 252  | 153452   | 2.941 | ng    | 99       |
| 36) Benzo(k)fluoranthene    | 23.14 | 252  | 53173m   | 0.991 | ng    |          |
| 37) Benzo(a)pyrene          | 23.74 | 252  | 118790   | 2.446 | ng    | 99       |
| 38) Dibenzo(a,h)anthracene  | 26.48 | 278  | 24180    | 0.482 | ng    | # 89     |
| 39) Benzo(g,h,i)perylene    | 27.28 | 276  | 88084    | 1.745 | ng    | 99       |

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

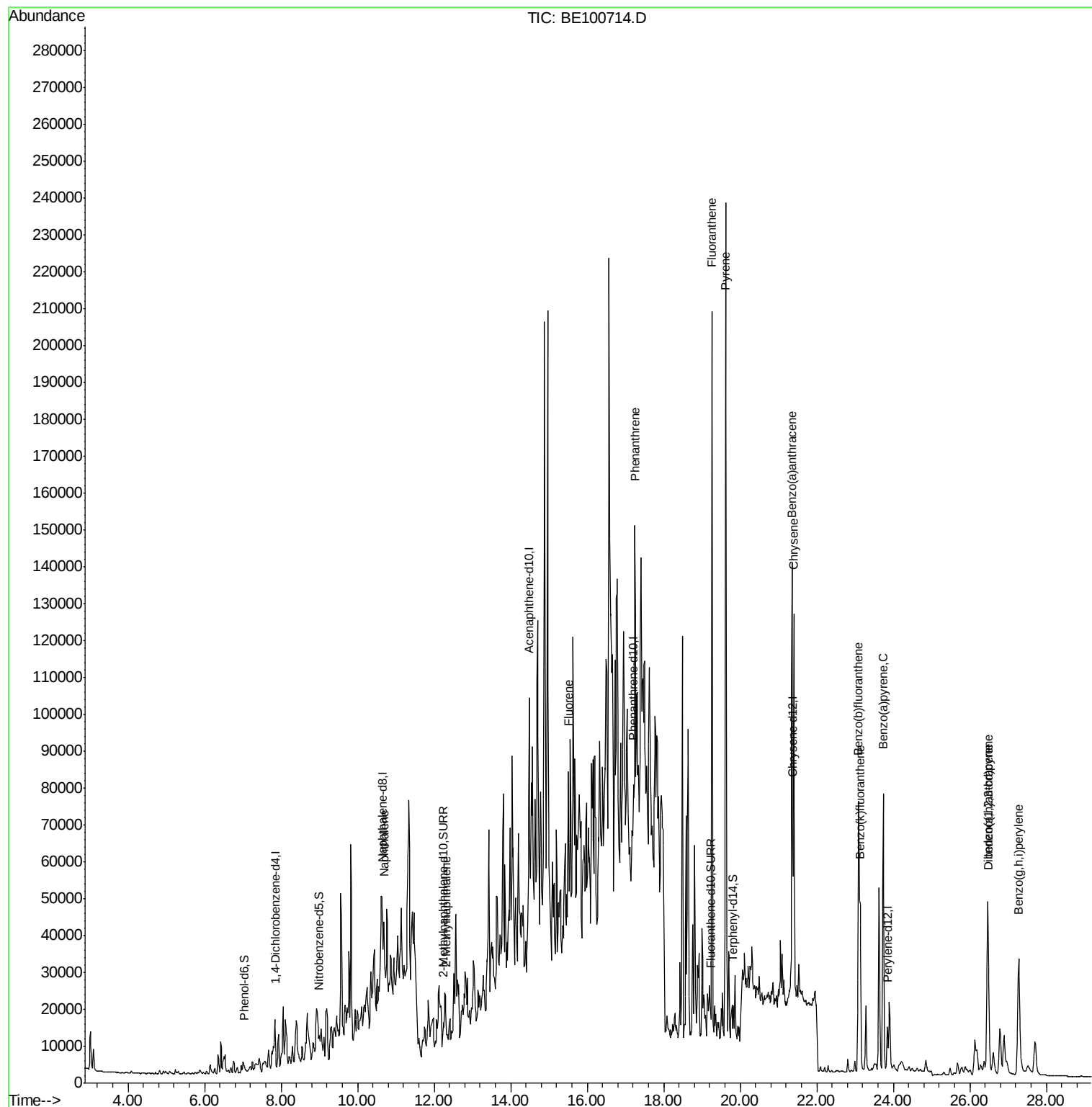
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE110819\  
Data File : BE100714.D  
Acq On : 8 Nov 2019 12:40  
Operator : JU  
Sample : K5725-03DL 25X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

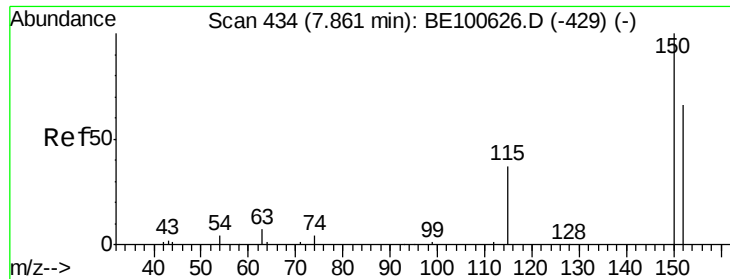
Instrument :  
BNA\_E  
ClientSampleId :  
SO-3DL

Quant Time: Nov 08 13:33:52 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 23 16:49:33 2019  
Response via : Initial Calibration

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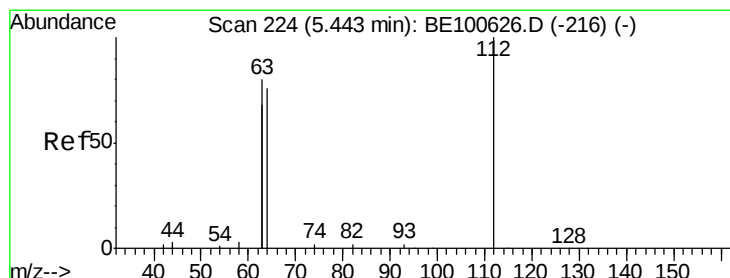
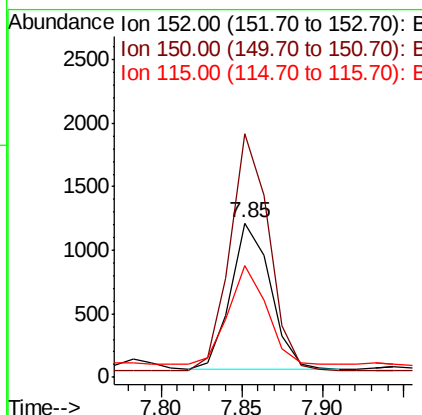
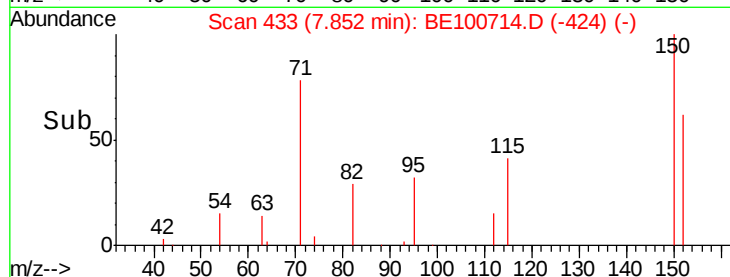
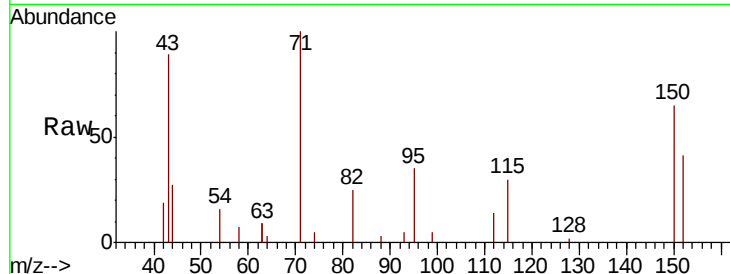
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.85 min Scan# 433  
 Delta R.T. 0.00 min  
 Lab File: BE100714.D  
 Acq: 8 Nov 2019 12:40

Instrument :  
 BNA\_E  
 ClientSampled :  
 SO-3DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 1957  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 157.9 | 123.3 | 184.9 |
| 115      | 72.3  | 51.9  | 77.9  |

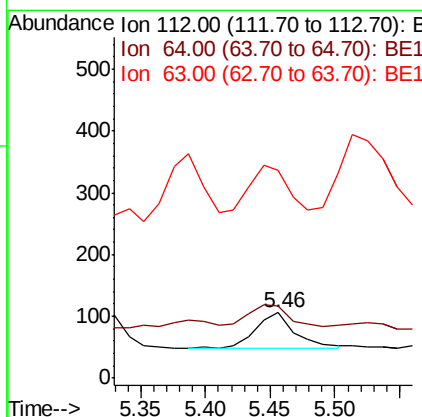
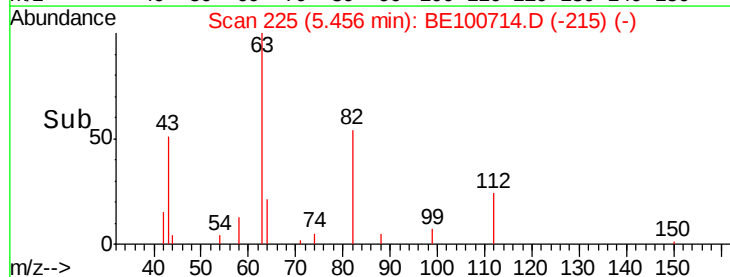
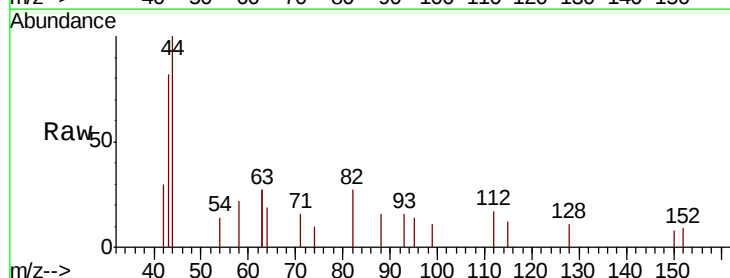
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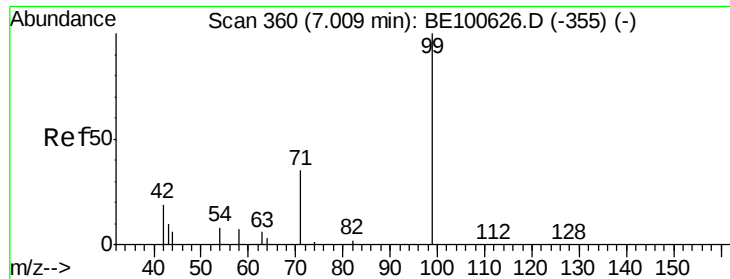
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#4  
 2-Fluorophenol  
 Concen: 0.020 ng  
 RT: 5.46 min Scan# 225  
 Delta R.T. 0.01 min  
 Lab File: BE100714.D  
 Acq: 8 Nov 2019 12:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 118   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 57.6  | 55.4  | 83.2  |
| 63       | 128.0 | 114.2 | 171.4 |





#5

Phenol-d6

Concen: 0.032 ng

RT: 7.02 min Scan# 361

Delta R.T. 0.01 min

Lab File: BE100714.D

Acq: 8 Nov 2019 12:40

Instrument :

BNA\_E

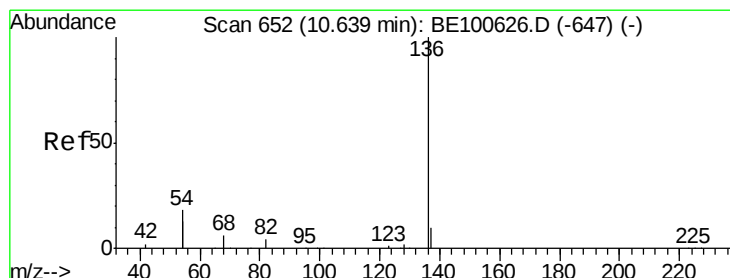
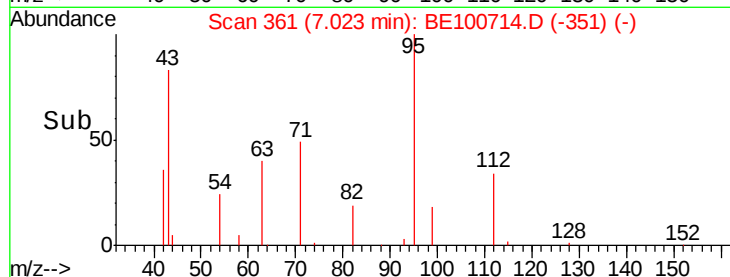
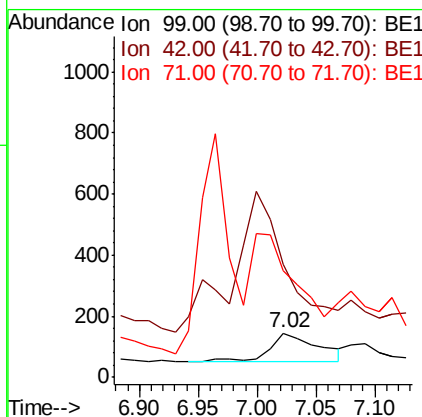
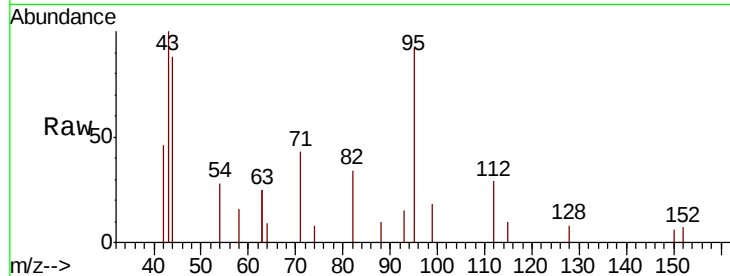
ClientSampled :

SO-3DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 273   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 0.0   | 17.7  | 26.5# |
| 71       | 0.0   | 27.4  | 41.0# |

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#7

Naphthalene-d8

Concen: 0.400 ng

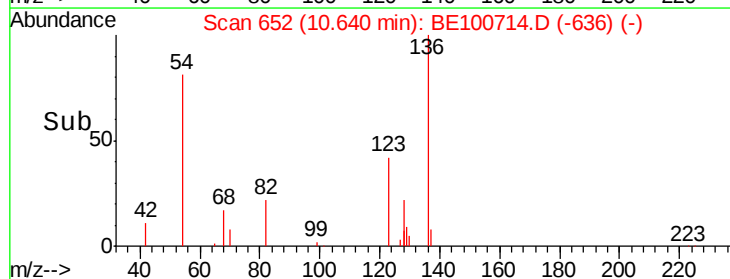
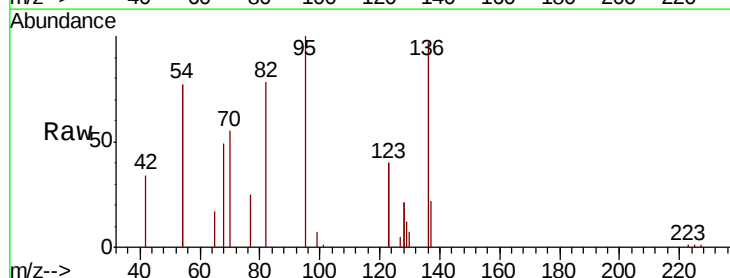
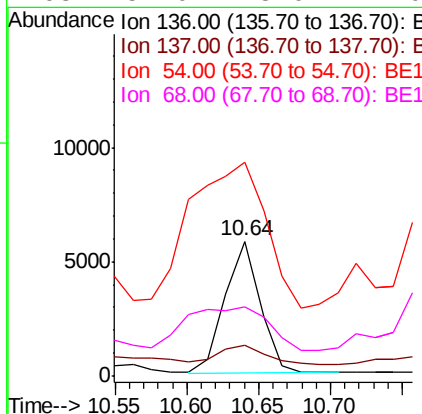
RT: 10.64 min Scan# 652

Delta R.T. 0.01 min

Lab File: BE100714.D

Acq: 8 Nov 2019 12:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 9846  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 23.0  | 9.2   | 13.8# |
| 54       | 158.6 | 39.4  | 59.2# |
| 68       | 51.0  | 8.0   | 12.0# |





#8

Nitrobenzene-d5

Concen: 0.236 ng/mL

RT: 8.99 min Scan# 525

Delta R.T. -0.00 min

Lab File: BE100714.D

Acq: 8 Nov 2019 12:40

Instrument :

BNA\_E

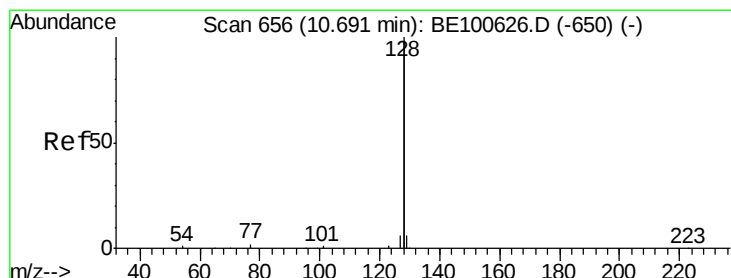
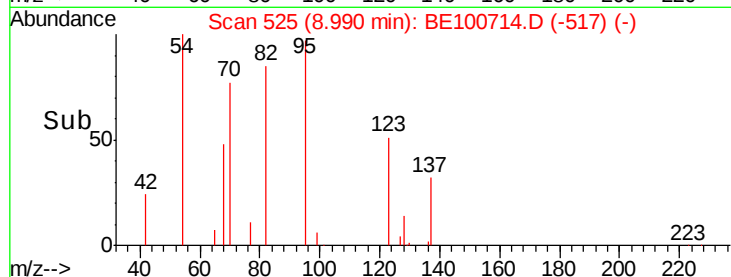
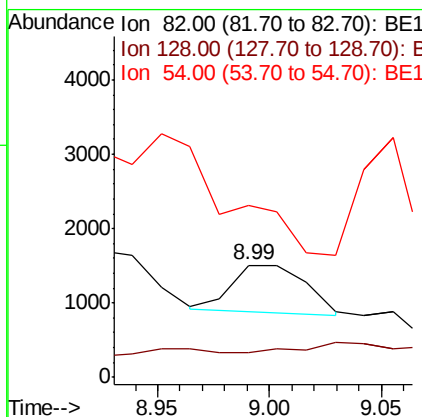
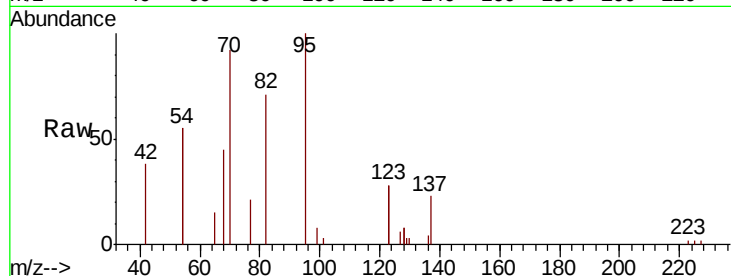
ClientSampled :

SO-3DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 1441   |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 11.1  | 107.8 | 161.8# |
| 54        | 76.6  | 166.1 | 249.1# |

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#9

Naphthalene

Concen: 0.414 ng/mL

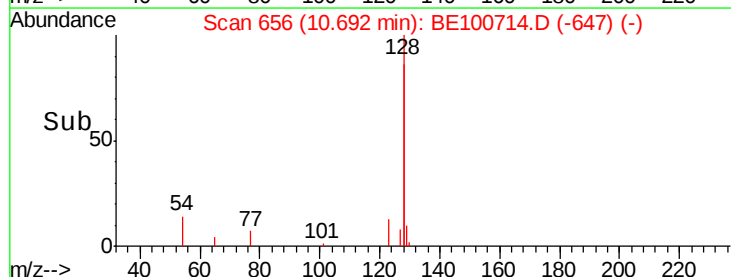
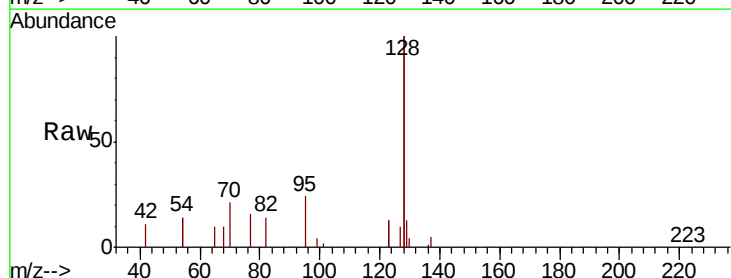
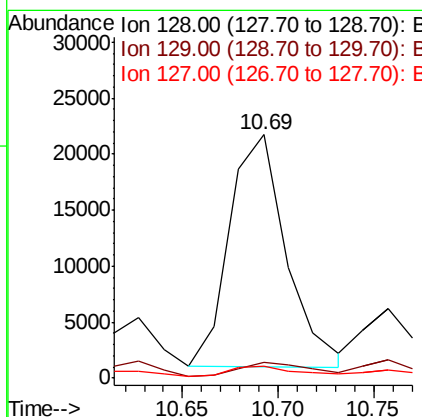
RT: 10.69 min Scan# 656

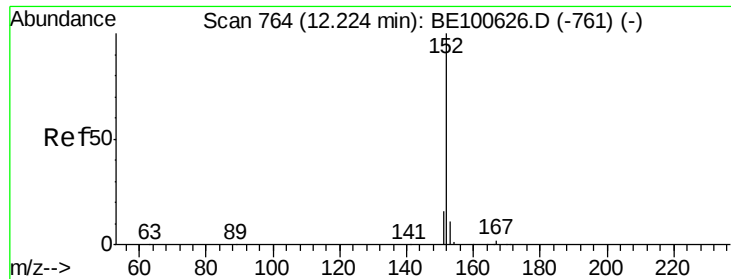
Delta R.T. 0.01 min

Lab File: BE100714.D

Acq: 8 Nov 2019 12:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 42897 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 6.7   | 2.3   | 3.5#  |
| 127       | 4.9   | 2.7   | 4.1#  |





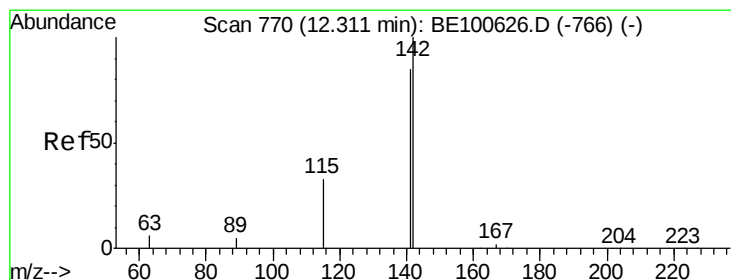
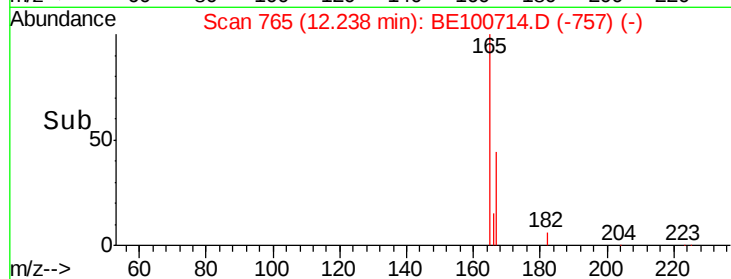
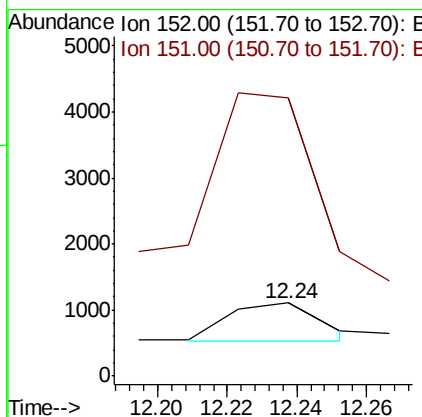
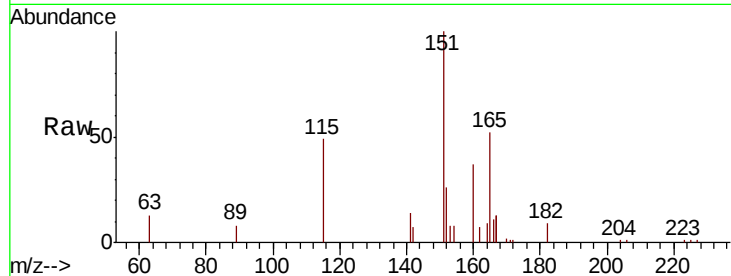
#11  
2-Methylnaphthalene-d10  
Concen: 0.066 ng m  
RT: 12.24 min Scan# 765  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Instrument :  
BNA\_E  
ClientSampled :  
SO-3DL

Tot Ion:152 Resp: 1032  
Ion Ratio Lower Upper  
152 100  
151 578.9 14.7 22.1#

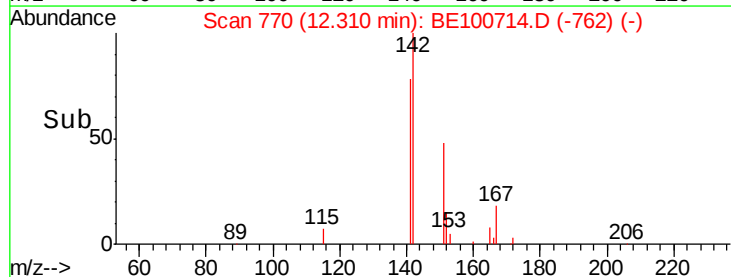
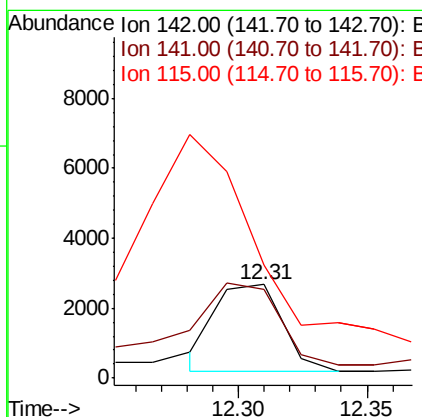
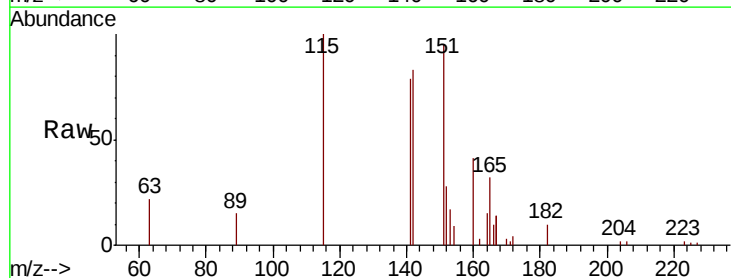
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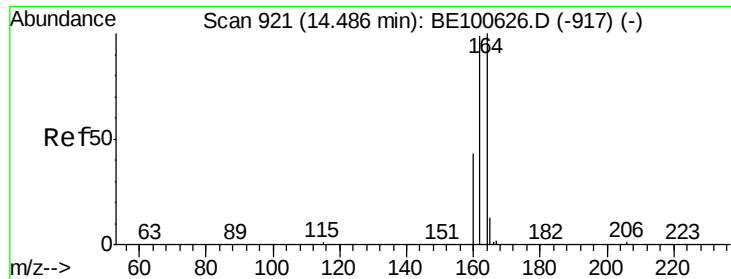
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#12  
2-Methylnaphthalene  
Concen: 0.258 ng m  
RT: 12.31 min Scan# 770  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Tgt Ion:142 Resp: 4559  
Ion Ratio Lower Upper  
142 100  
141 95.1 70.1 105.1  
115 120.7 28.3 42.5#





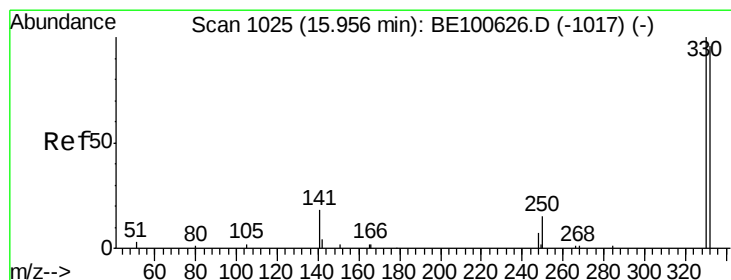
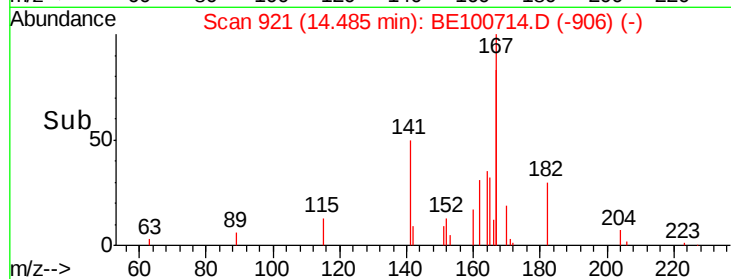
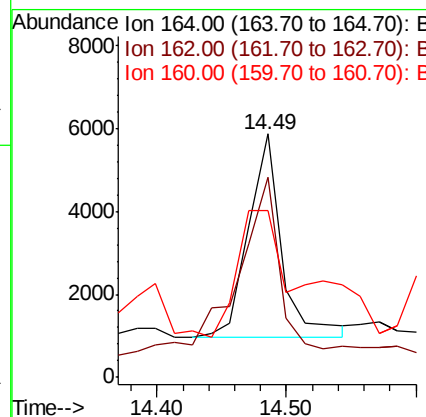
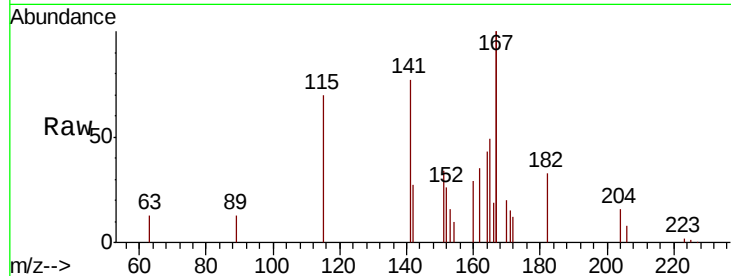
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.49 min Scan# 921  
 Delta R.T. 0.01 min  
 Lab File: BE100714.D  
 Acq: 8 Nov 2019 12:40

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SO-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 82.1  | 82.0  | 123.0 |
| 160     | 68.3  | 37.5  | 56.3  |

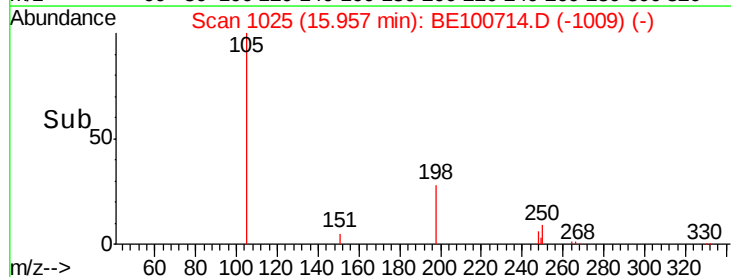
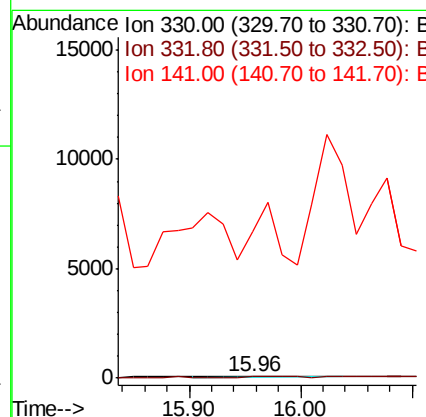
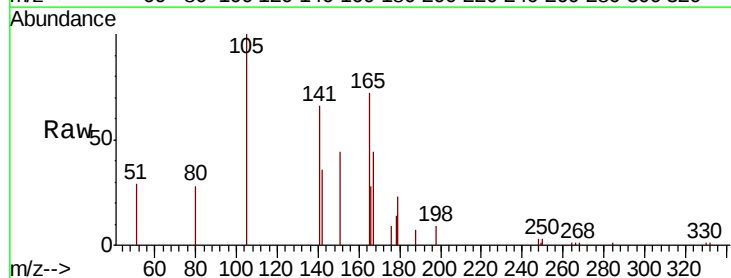
Manual Integrations  
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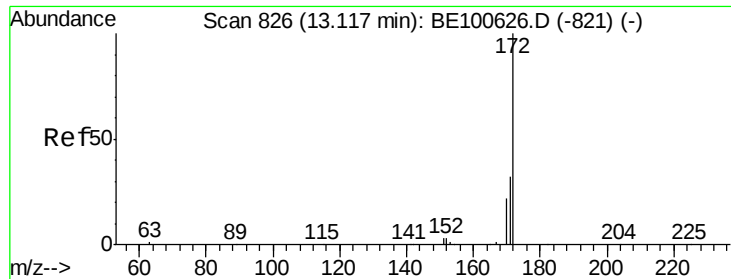
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#14  
 2,4,6-Tribromophenol  
 Concen: 0.008 ng  
 RT: 15.96 min Scan# 1025  
 Delta R.T. 0.01 min  
 Lab File: BE100714.D  
 Acq: 8 Nov 2019 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 77.9  | 116.9 |
| 141     | 0.0   | 33.0  | 49.6  |





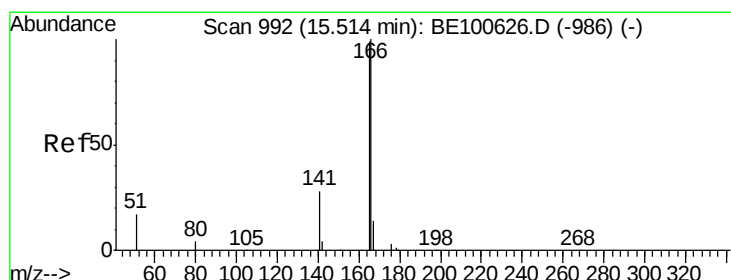
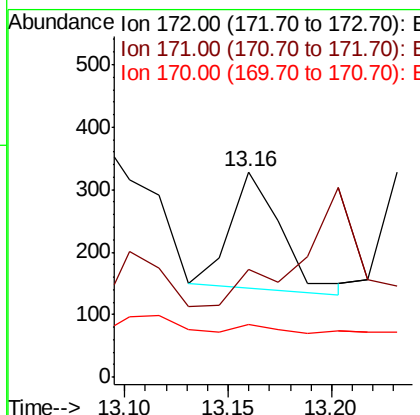
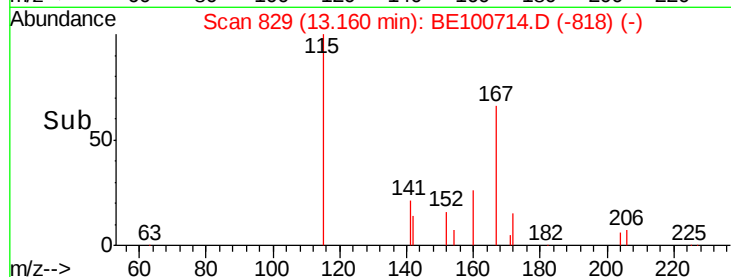
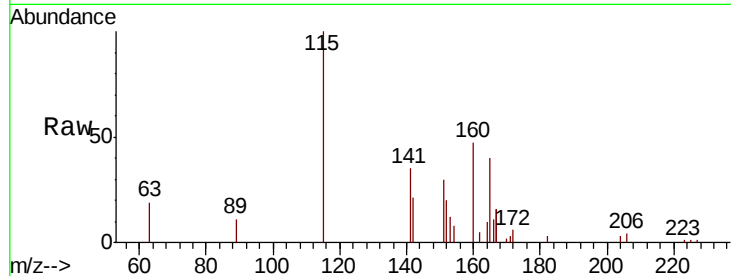
#15  
2-Fluorobiphenyl  
Concen: 0.010 ng  
RT: 13.16 min Scan# 829  
Delta R.T. 0.06 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Instrument :  
BNA\_E  
ClientSampled :  
SO-3DL

Tot Ion:172 Resp: 316  
Ion Ratio Lower Upper  
172 100  
171 52.4 26.5 39.7#  
170 25.9 19.0 28.4

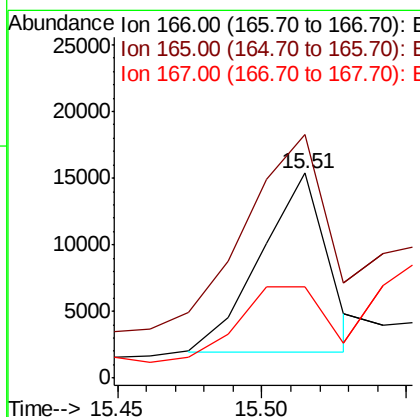
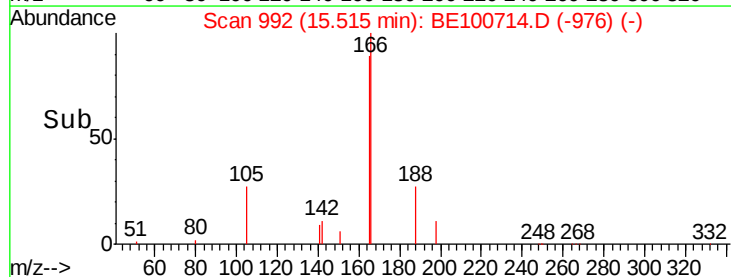
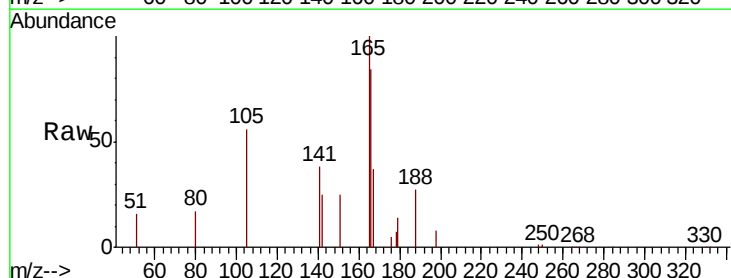
Manual Integrations  
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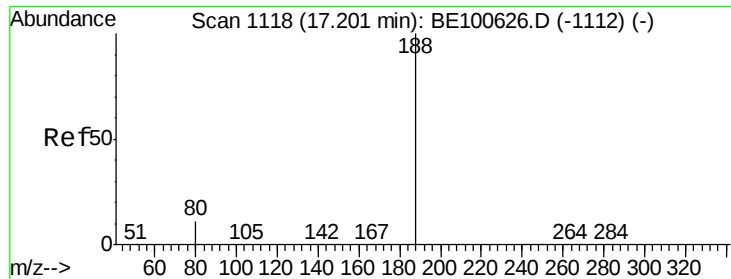
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#18  
Fluorene  
Concen: 0.670 ng m  
RT: 15.51 min Scan# 992  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Tgt Ion:166 Resp: 21740  
Ion Ratio Lower Upper  
166 100  
165 0.0 78.6 117.8#  
167 0.0 10.9 16.3#





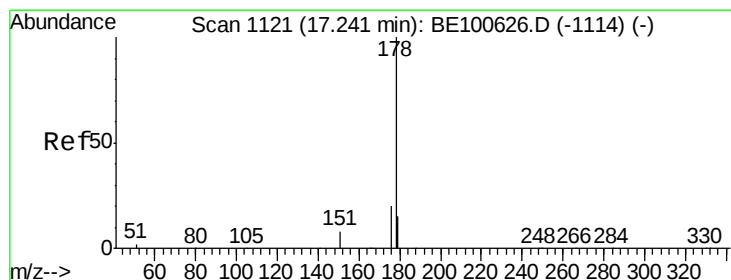
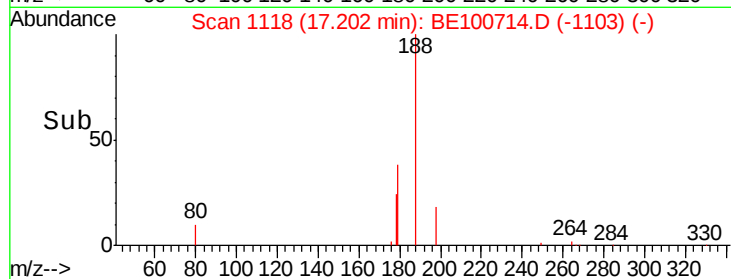
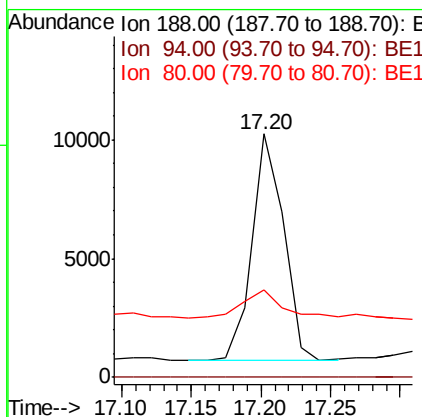
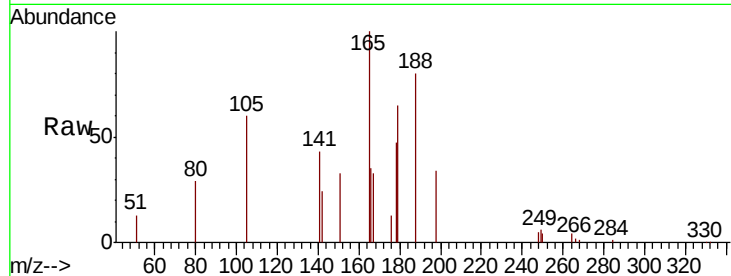
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.20 min Scan# 1118  
Delta R.T. 0.00 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Instrument :  
BNA\_E  
ClientSampled :  
SO-3DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 0.0   | 0.0        | 0.0   |
| 80      | 35.9  | 5.4        | 8.0#  |

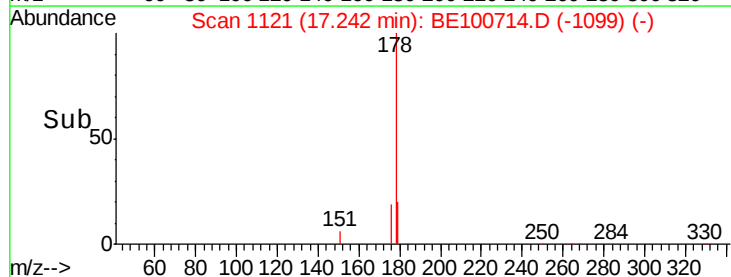
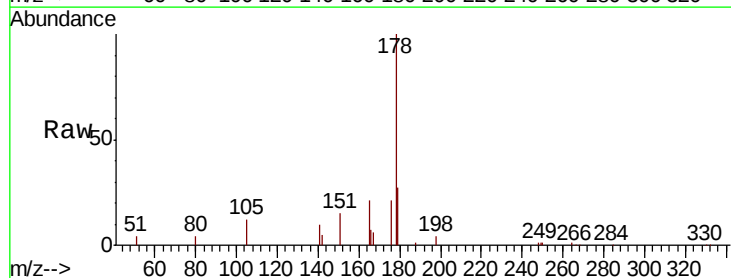
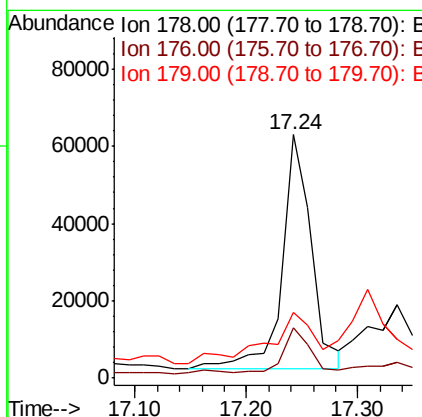
Manual Integrations  
APPROVED

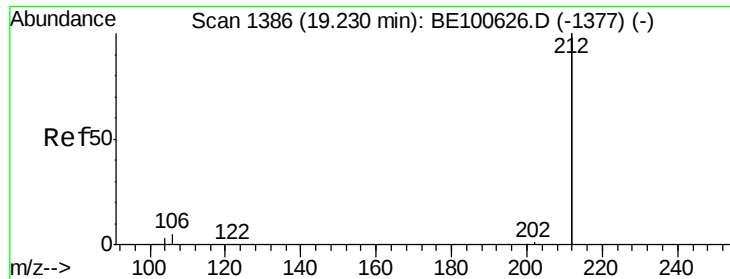
mohammad  
11/11/2019 8:09:47 AM



#23  
Phenanthrene  
Concen: 2.666 ng  
RT: 17.24 min Scan# 1121  
Delta R.T. 0.00 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 16.8  | 15.2       | 22.8  |
| 179     | 35.3  | 12.1       | 18.1# |





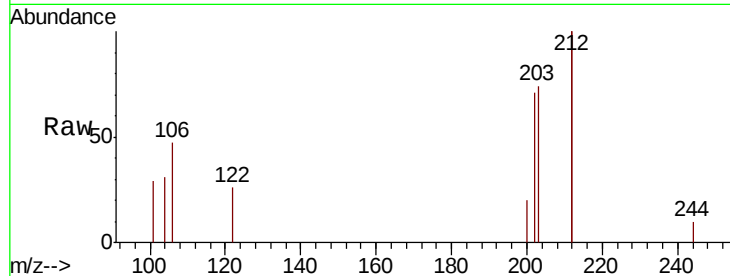
#25  
Fluoranthene-d10  
Concen: 0.025 ng  
RT: 19.23 min Scan# 1386  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Instrument :  
BNA\_E  
ClientSampled :  
SO-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 10.1  | 2.3   | 3.5#  |
| 104     | 0.0   | 1.3   | 1.9#  |

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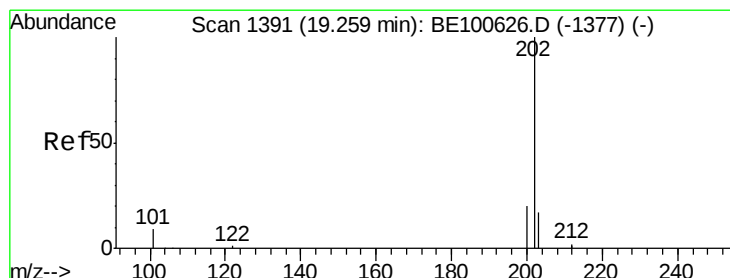
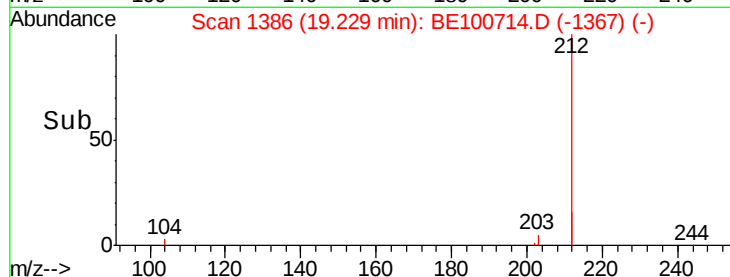
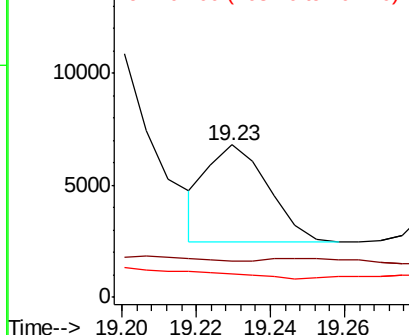


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26  
Fluoranthene  
Concen: 3.275 ng  
RT: 19.26 min Scan# 1391  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

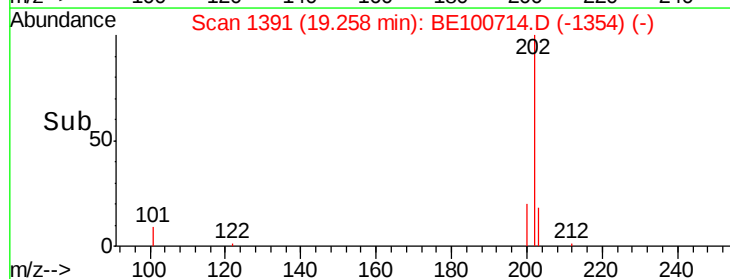
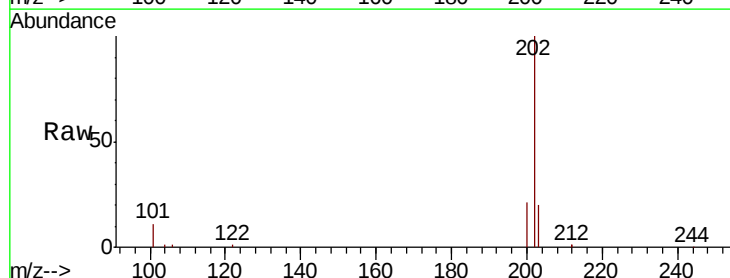
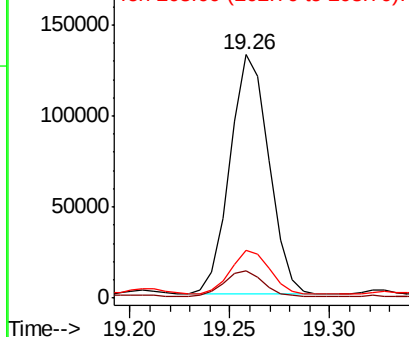
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.8  | 8.5   | 12.7  |
| 203     | 18.2  | 13.8  | 20.8  |

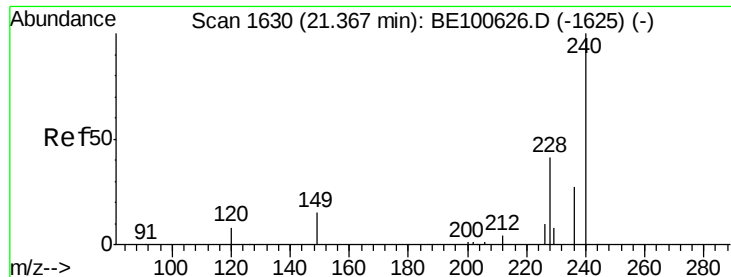
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





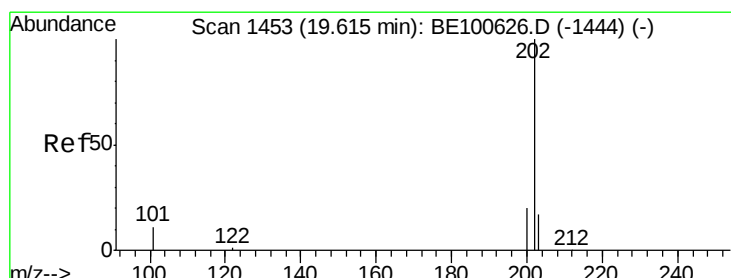
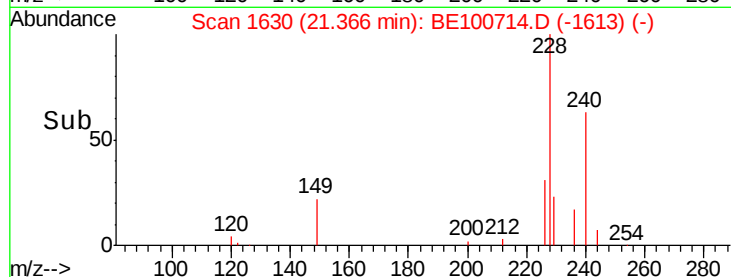
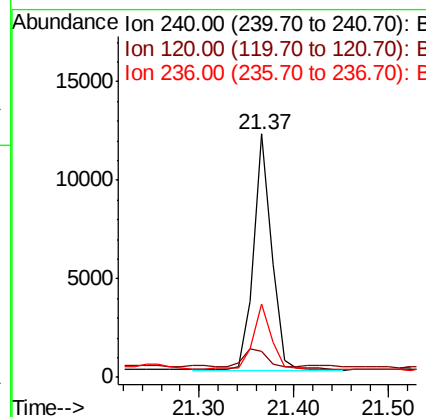
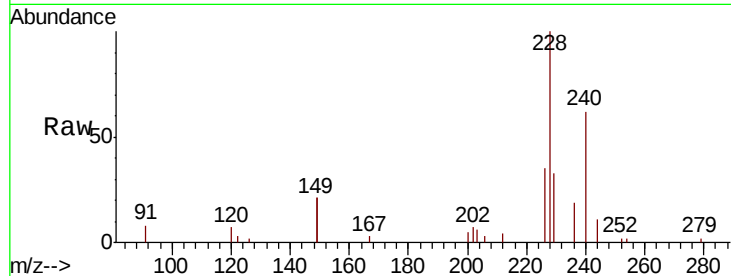
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.37 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Instrument :  
BNA\_E  
ClientSampled :  
SO-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.6  | 7.6   | 11.4  |
| 236     | 29.9  | 22.1  | 33.1  |

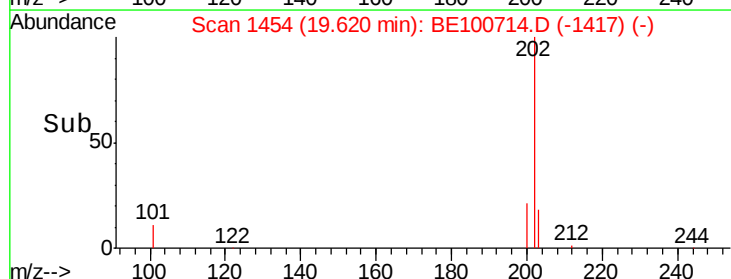
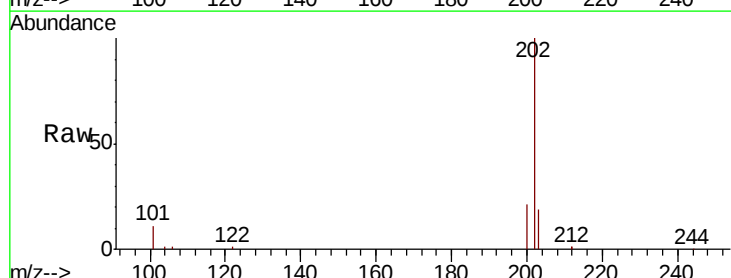
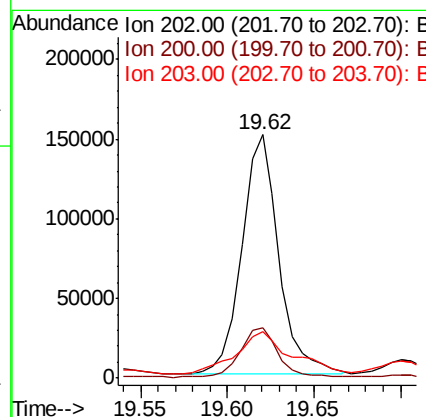
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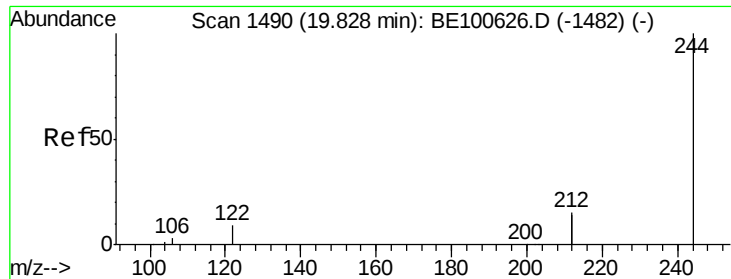
mohammad  
11/11/2019 8:09:47 AM



#28  
Pyrene  
Concen: 4.963 ng m  
RT: 19.62 min Scan# 1454  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 16.7  | 25.1  |
| 203     | 27.0  | 14.0  | 21.0  |





#29

Terphenyl-d14

Concen: 0.029 ng/mL

RT: 19.82 min Scan# 1489

Delta R.T. 0.01 min

Lab File: BE100714.D

Acq: 8 Nov 2019 12:40

Instrument :

BNA\_E

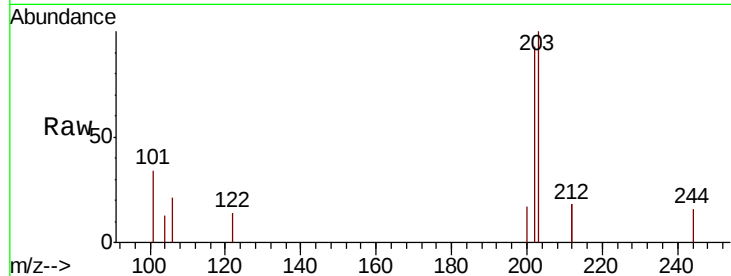
ClientSampleID :

SO-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 110.9 | 23.7  | 35.5# |
| 122     | 87.7  | 7.9   | 11.9# |

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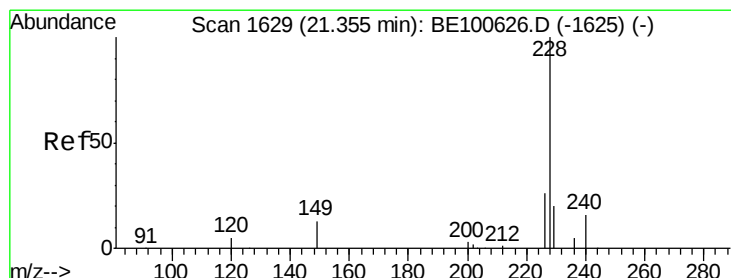
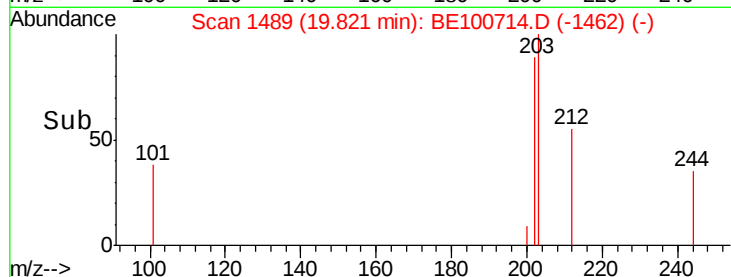
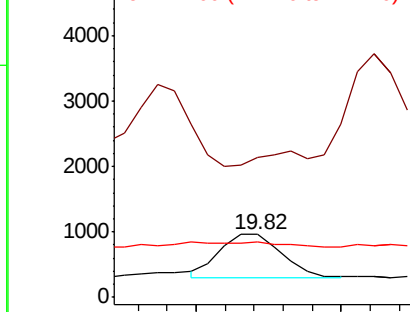


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 2.350 ng/mL

RT: 21.35 min Scan# 1629

Delta R.T. 0.01 min

Lab File: BE100714.D

Acq: 8 Nov 2019 12:40

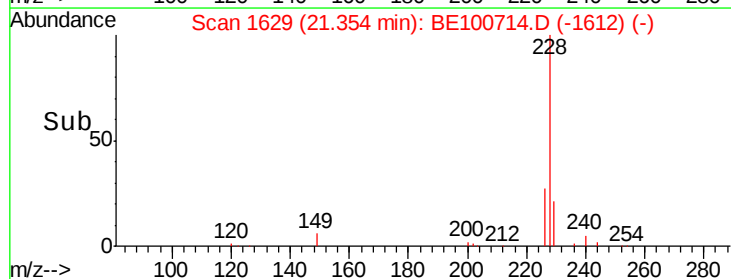
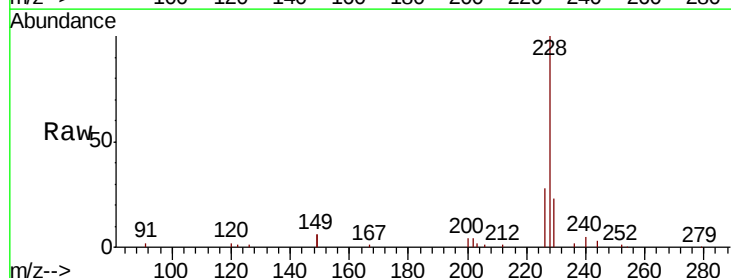
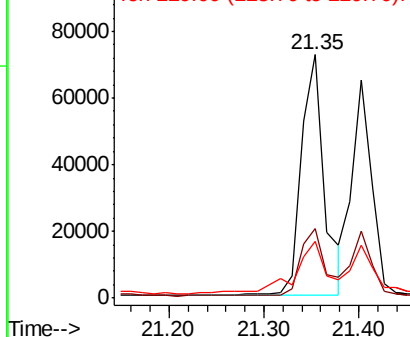
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.4  | 21.4  | 32.0  |
| 229     | 23.4  | 16.0  | 24.0  |

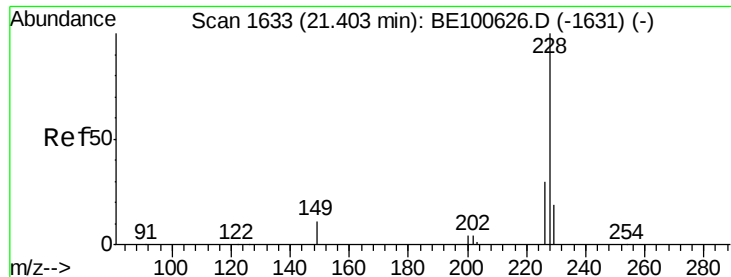
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





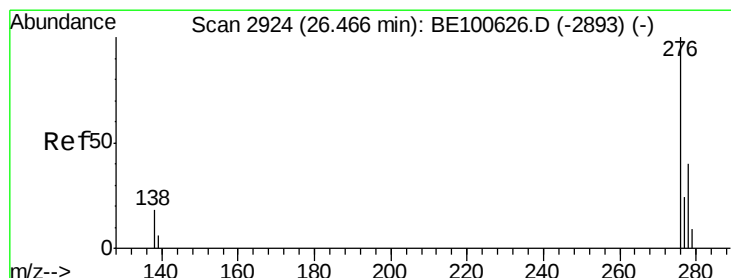
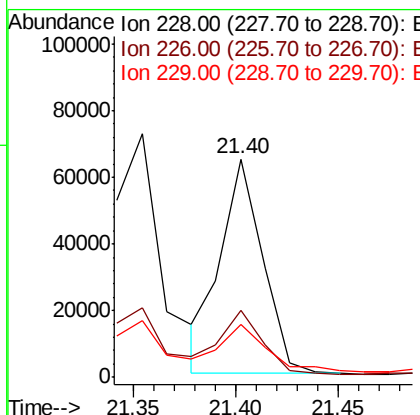
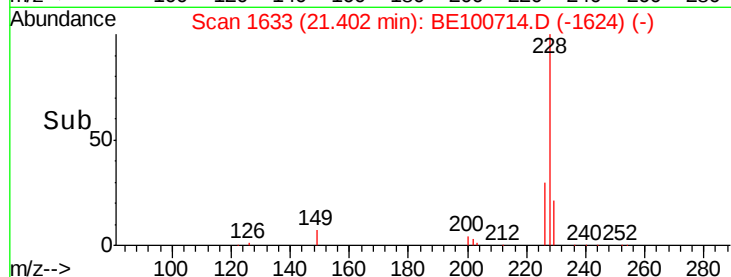
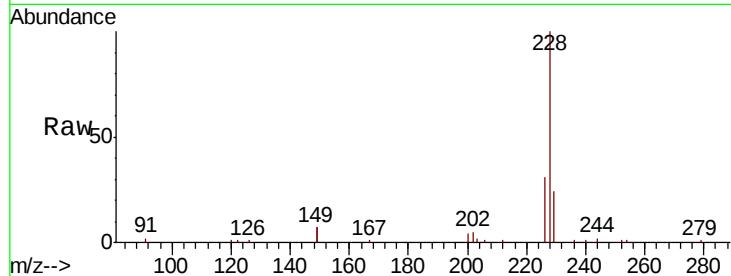
#31  
Chrysene  
Concen: 1.770 ng/mL  
RT: 21.40 min Scan# 1633  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Instrument :  
BNA\_E  
ClientSampleID :  
SO-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 24.6  | 37.0  |
| 229     | 23.9  | 15.8  | 23.8  |

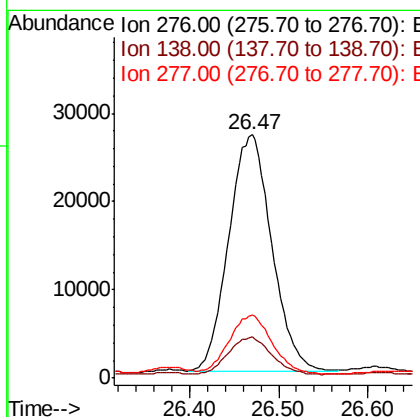
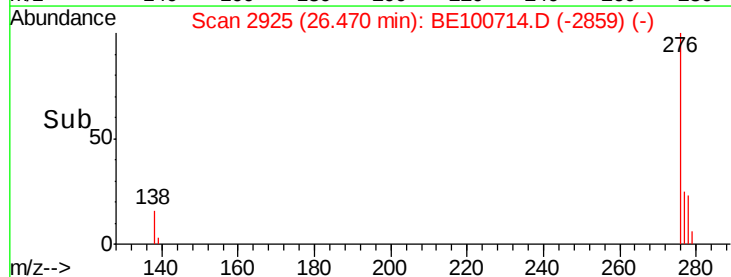
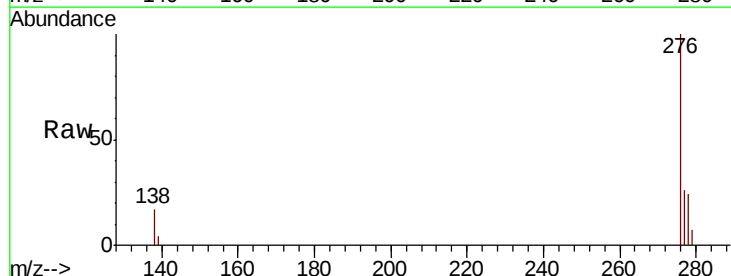
Manual Integrations  
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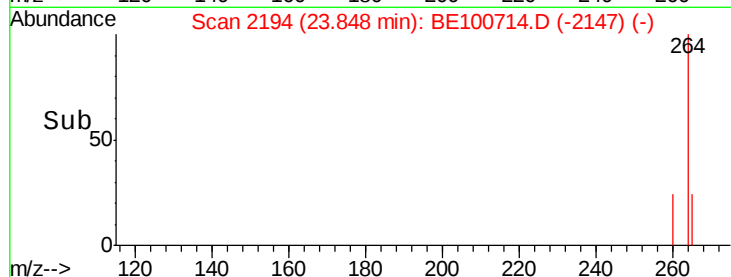
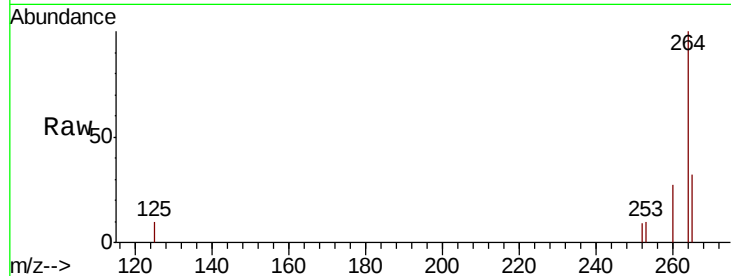
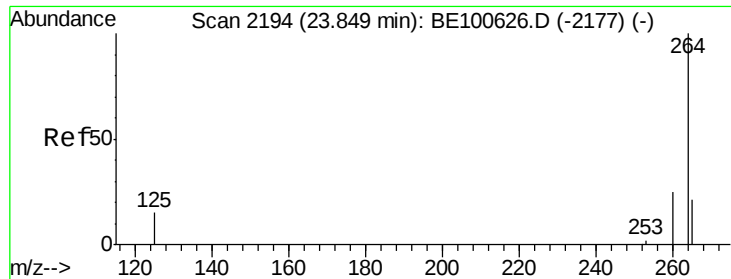
mohammad  
11/11/2019 8:09:47 AM



#33  
Indeno(1,2,3-cd)pyrene  
Concen: 1.413 ng/mL  
RT: 26.47 min Scan# 2925  
Delta R.T. 0.04 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.9  | 15.3  | 22.9  |
| 277     | 24.8  | 19.4  | 29.2  |





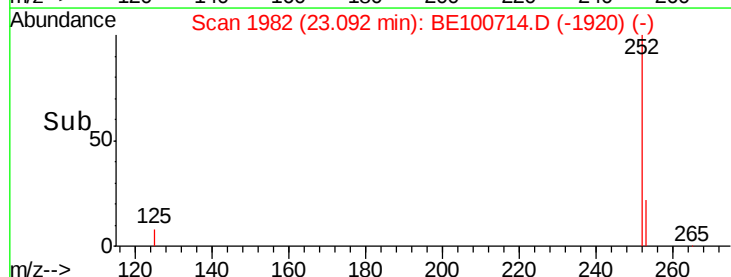
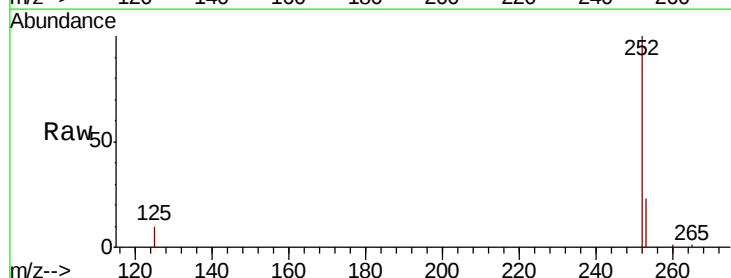
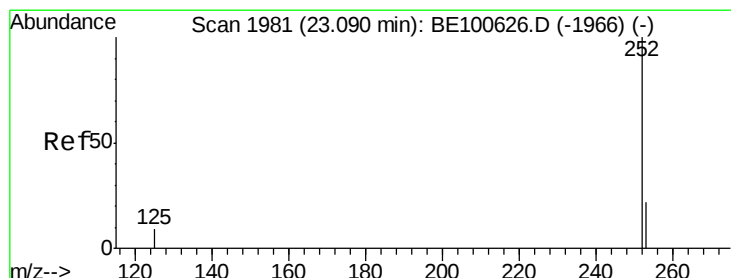
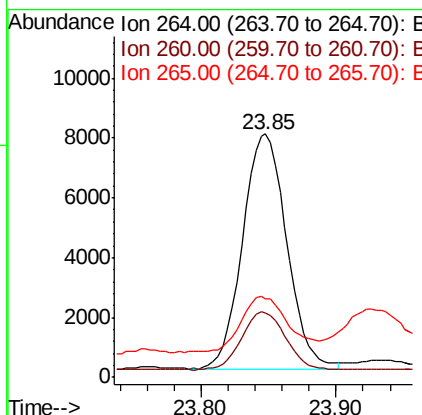
#34  
 Pervlene-d12  
 Concen: 0.400 ng  
 RT: 23.85 min Scan# 2194  
 Delta R.T. 0.02 min  
 Lab File: BE100714.D  
 Acq: 8 Nov 2019 12:40

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.6  | 19.4  | 29.2  |
| 265     | 32.2  | 21.7  | 32.5  |

Instrument :  
 BNA\_E  
 ClientSampled :  
 SO-3DL

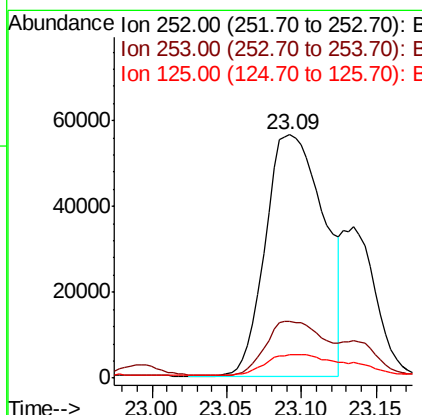
Manual Integrations  
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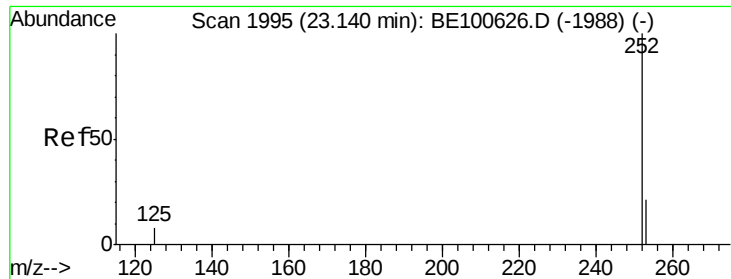
mohammad  
 11/11/2019 8:09:47 AM



#35  
 Benzo(b)fluoranthene  
 Concen: 2.941 ng  
 RT: 23.09 min Scan# 1982  
 Delta R.T. 0.02 min  
 Lab File: BE100714.D  
 Acq: 8 Nov 2019 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 18.4  | 27.6  |
| 125     | 9.6   | 7.6   | 11.4  |





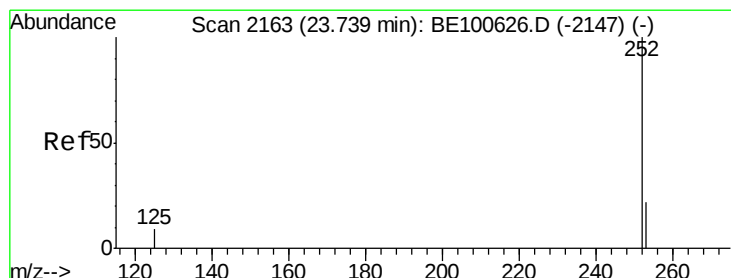
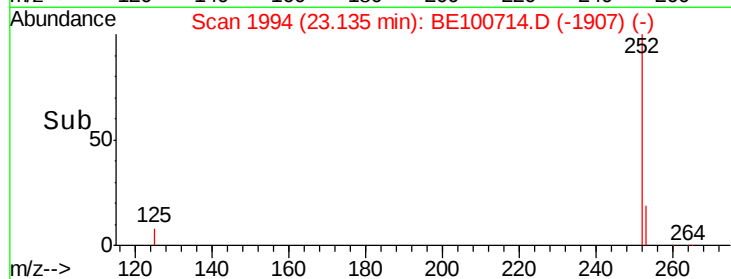
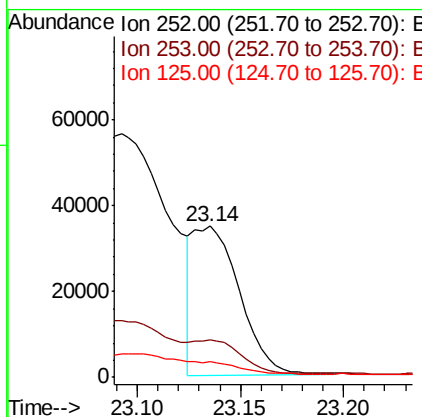
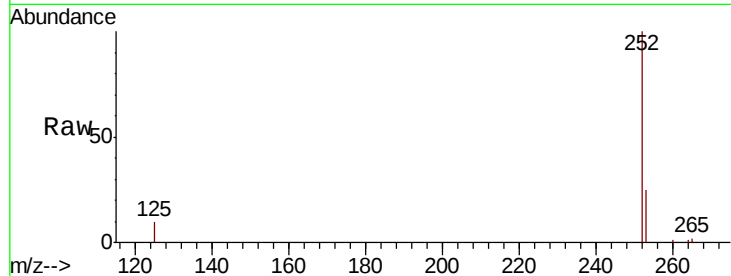
#36  
Benzo(k)fluoranthene  
Concen: 0.991 ng m  
RT: 23.14 min Scan# 1994  
Delta R.T. 0.01 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Instrument :  
BNA\_E  
ClientSampleId :  
SO-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 18.4  | 27.6  |
| 125     | 10.2  | 11.6  | 17.4  |

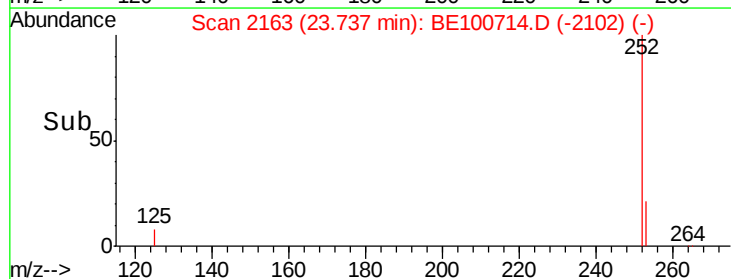
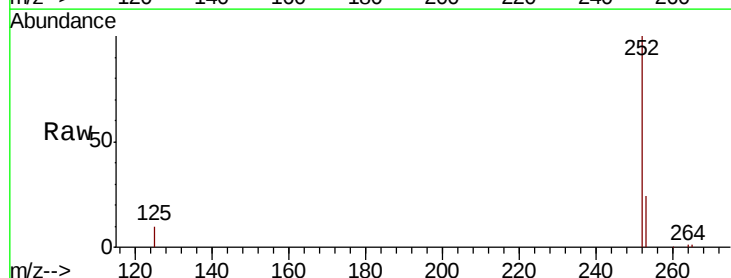
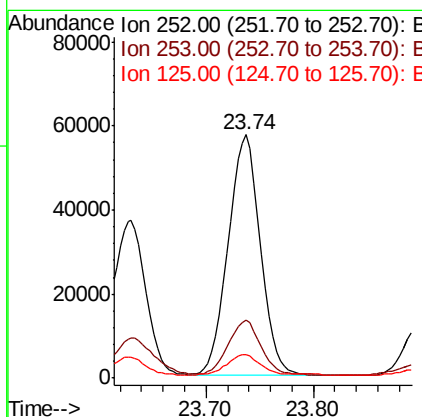
Manual Integrations  
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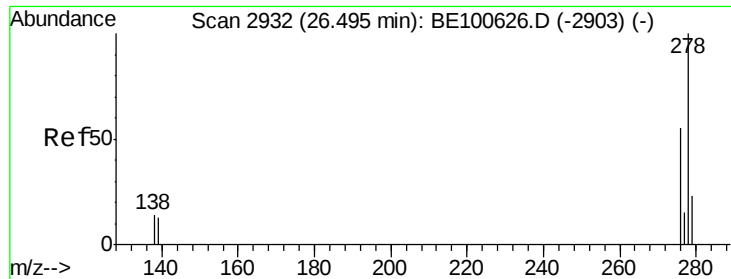
mohammad  
11/11/2019 8:09:47 AM



#37  
Benzo(a)pyrene  
Concen: 2.446 ng  
RT: 23.74 min Scan# 2163  
Delta R.T. 0.02 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 18.4  | 27.6  |
| 125     | 9.7   | 8.2   | 12.4  |





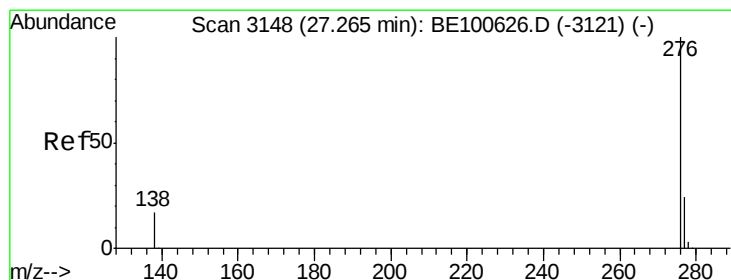
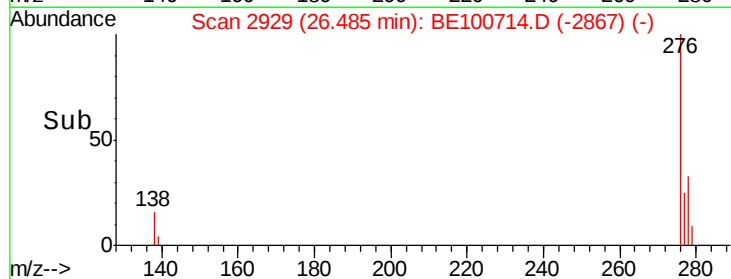
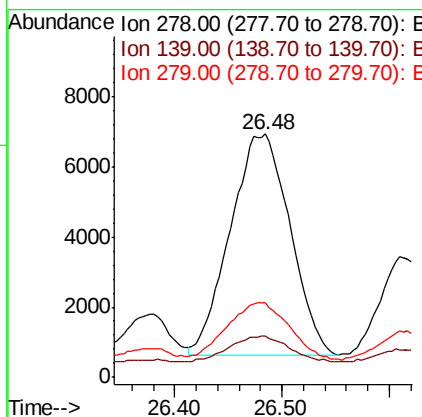
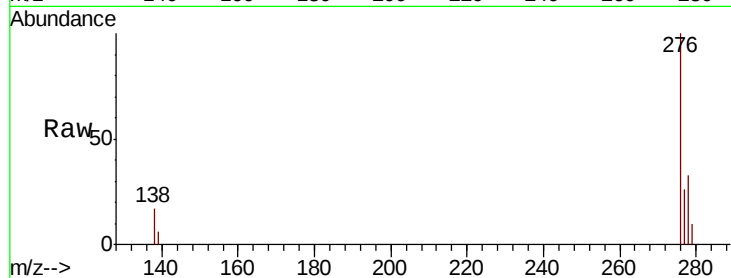
#38  
Dibenzo(a,h)anthracene  
Concen: 0.482 ng  
RT: 26.48 min Scan# 2929  
Delta R.T. 0.02 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

Instrument :  
BNA\_E  
ClientSampleId :  
SO-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 16.7  | 10.9  | 16.3# |
| 279     | 30.5  | 19.4  | 29.2# |

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#39  
Benzo(g,h,i)perylene  
Concen: 1.745 ng  
RT: 27.28 min Scan# 3151  
Delta R.T. 0.04 min  
Lab File: BE100714.D  
Acq: 8 Nov 2019 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.0  | 19.4  | 29.0  |
| 138     | 16.8  | 13.6  | 20.4  |

