

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\  
 Data File : BF116408.D  
 Acq On : 20 Aug 2019 00:38  
 Operator : HP/JU  
 Sample : K4223-15  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-8

Manual Integrations  
 APPROVED

mohammad  
 8/22/2019 12:45:45 PM

Quant Time: Aug 20 03:50:50 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 06:03:31 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 97413    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.08  | 136  | 387083   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.83  | 164  | 211825   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.32 | 188  | 390920   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 13.96 | 240  | 257185   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.42 | 264  | 287280   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 651275   | 111.92 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.46  | 99   | 898588   | 122.40 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 536179   | 79.96  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.63 | 330  | 246496   | 120.03 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.15  | 172  | 801616   | 70.88  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.90 | 244  | 871622   | 71.41  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 50) Dimethylphthalate          | 9.55  | 163  | 199761   | 13.850 | ng    | 98       |
| 71) Phenanthrene               | 11.34 | 178  | 44879    | 2.246  | ng    | 99       |
| 75) Fluoranthene               | 12.54 | 202  | 85851    | 4.103  | ng    | 99       |
| 78) Pyrene                     | 12.77 | 202  | 72980    | 3.764  | ng    | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 13.92 | 149  | 147010   | 13.795 | ng    | 100      |
| 88) Benzo(b)fluoranthene       | 15.01 | 252  | 41697m   | 2.510  | ng    |          |

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

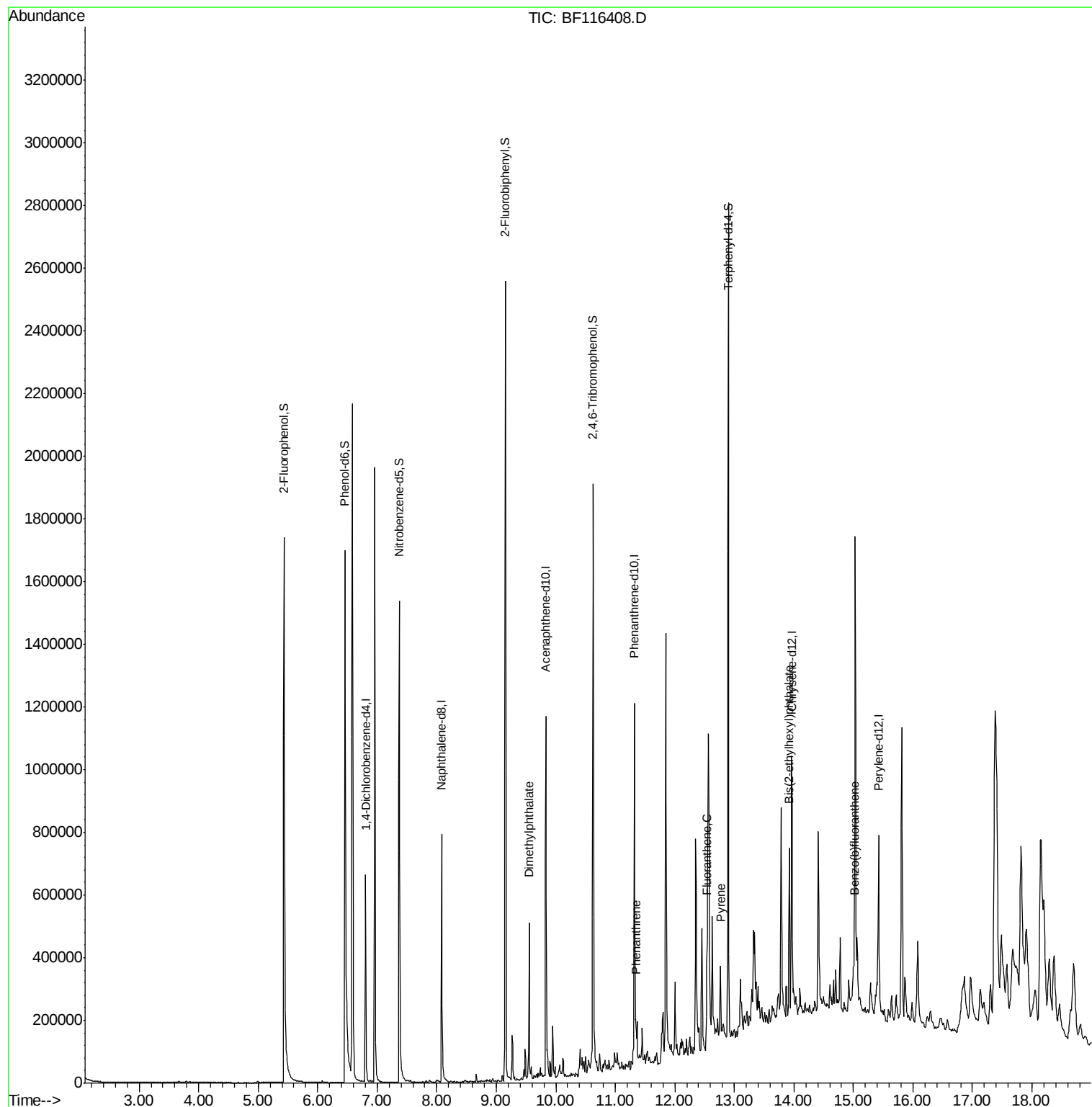
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\  
Data File : BF116408.D  
Acq On : 20 Aug 2019 00:38  
Operator : HP/JU  
Sample : K4223-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

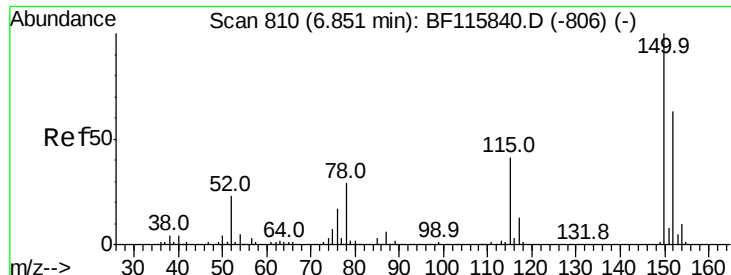
Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

Manual Integrations  
APPROVED

mohammad  
8/22/2019 12:45:45 PM

Quant Time: Aug 20 03:50:50 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 19 06:03:31 2019  
Response via : Initial Calibration





#1

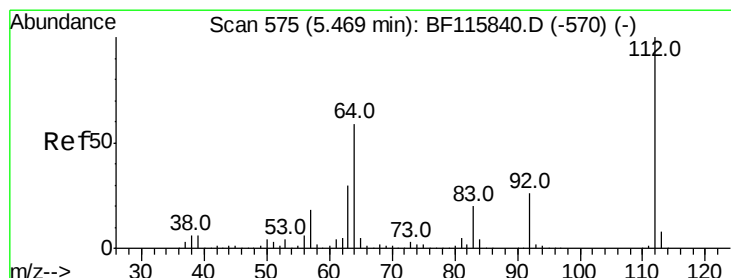
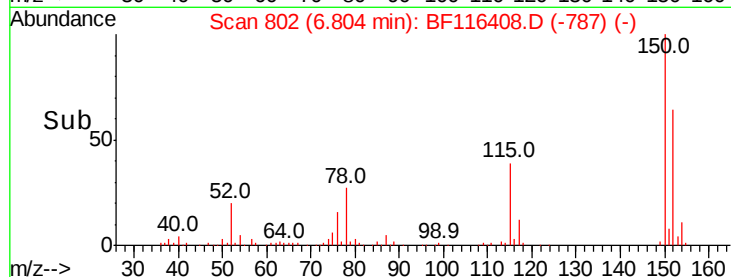
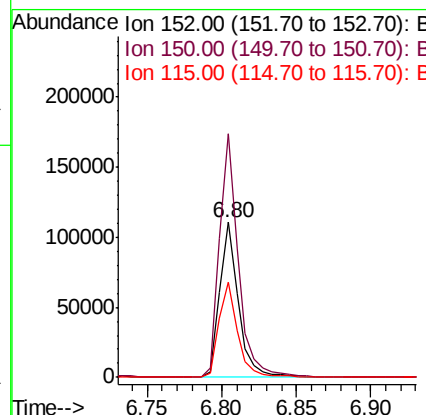
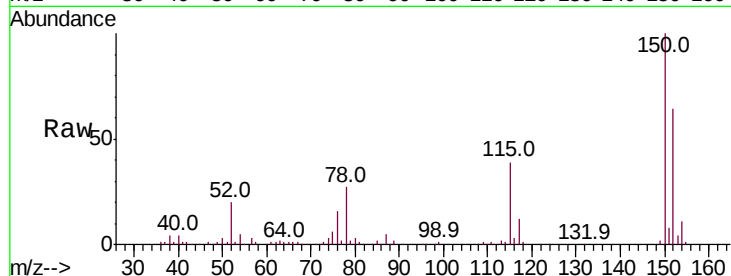
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.01 min  
Lab File: BF116408.D  
Acq: 20 Aug 2019 00:38

Instrument :  
BNA\_F  
ClientSampled :  
SP-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.0 | 126.2 | 189.2 |
| 115     | 61.1  | 49.9  | 74.9  |

Manual Integrations  
APPROVED

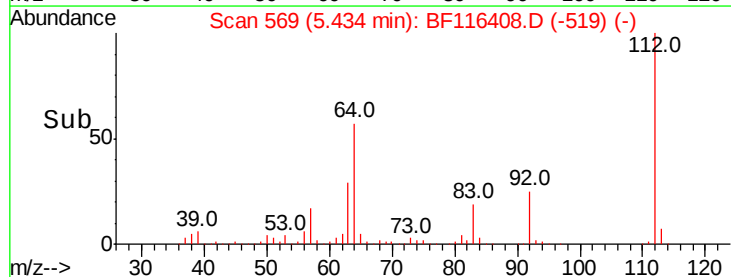
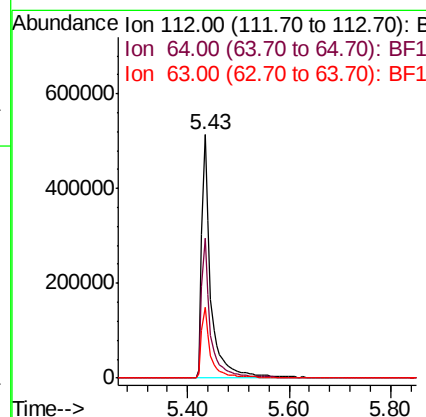
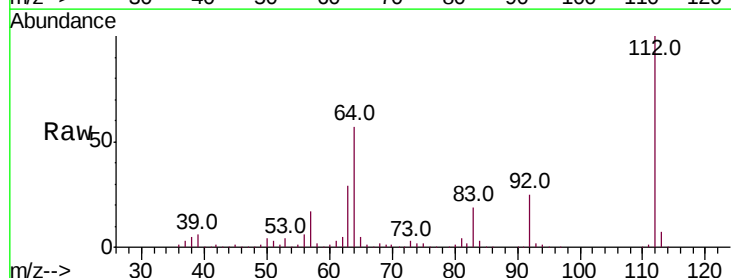
mohammad  
8/22/2019 12:45:45 PM



#5

2-Fluorophenol  
Concen: 111.923 ng  
RT: 5.43 min Scan# 569  
Delta R.T. -0.01 min  
Lab File: BF116408.D  
Acq: 20 Aug 2019 00:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.3  | 45.4  | 68.2  |
| 63      | 29.3  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 122.396 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF116408.D

Acq: 20 Aug 2019 00:38

Instrument :

BNA\_F

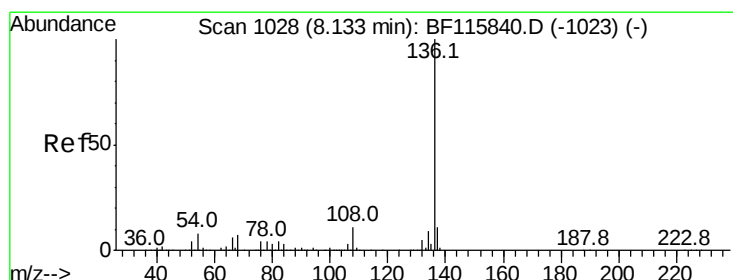
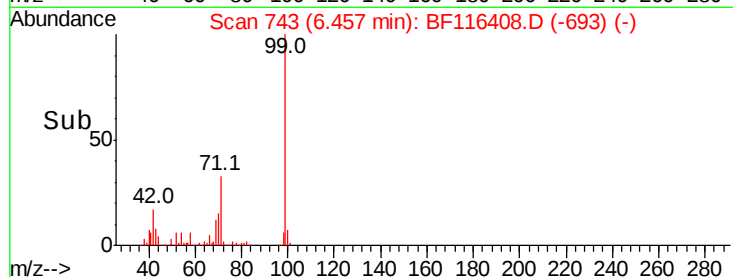
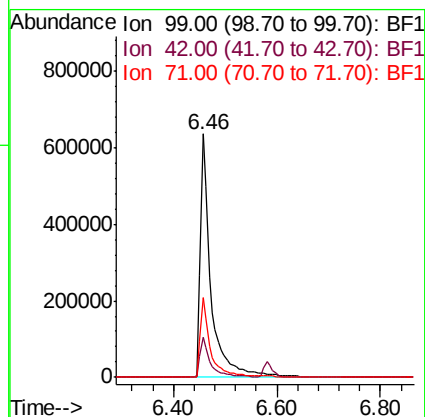
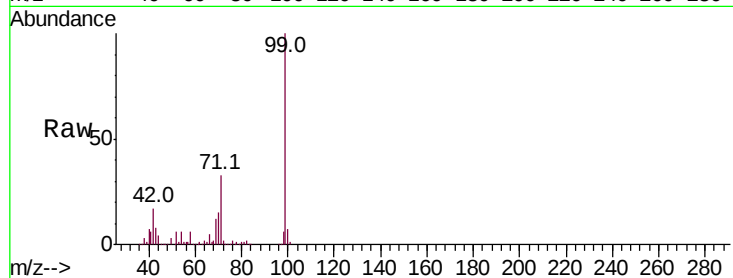
ClientSampleId :

SP-8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 898588 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.7  | 13.8  | 20.8   |
| 71        | 32.9  | 27.3  | 40.9   |

Manual Integrations  
APPROVED

mohammad  
8/22/2019 12:45:45 PM



#21

Naphthalene-d8

Concen: 20.000 ng

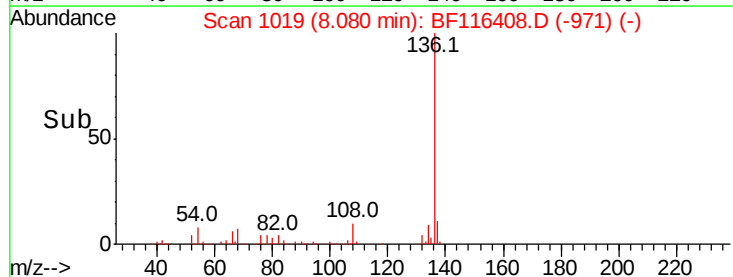
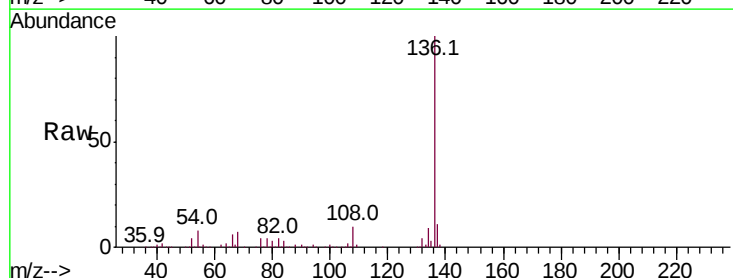
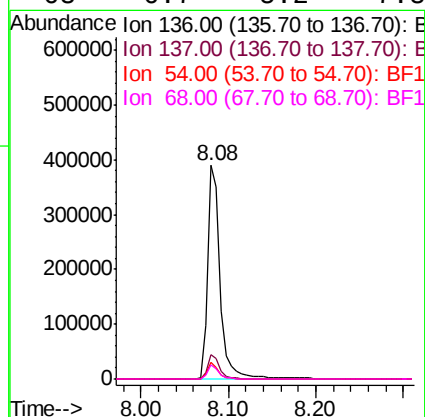
RT: 8.08 min Scan# 1019

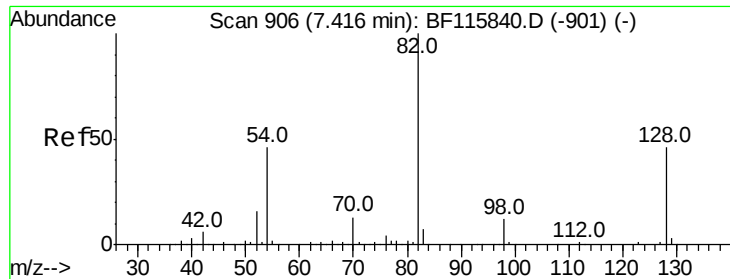
Delta R.T. -0.02 min

Lab File: BF116408.D

Acq: 20 Aug 2019 00:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 387083 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 9.0   | 13.4   |
| 54        | 7.6   | 5.8   | 8.6    |
| 68        | 6.7   | 5.2   | 7.8    |





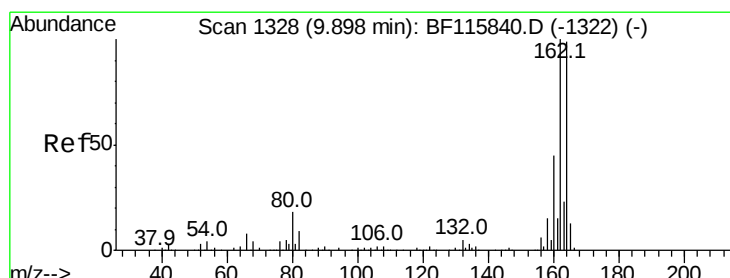
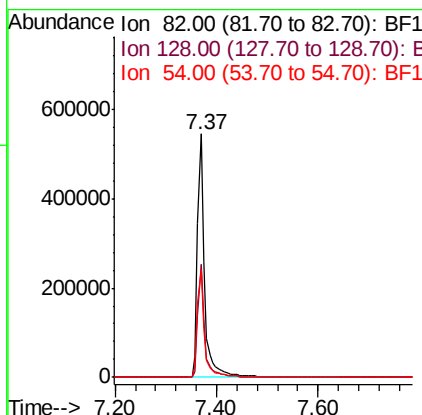
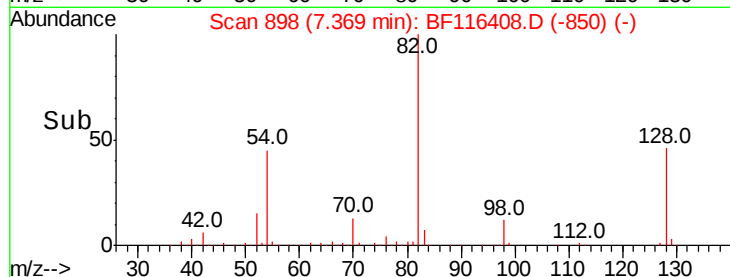
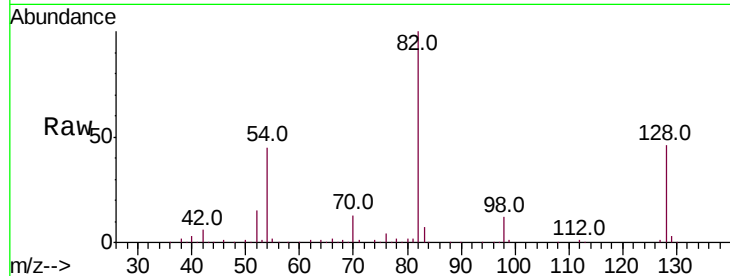
#23  
Nitrobenzene-d5  
Concen: 79.957 ng  
RT: 7.37 min Scan# 898  
Delta R.T. -0.02 min  
Lab File: BF116408.D  
Acq: 20 Aug 2019 00:38

Instrument :  
BNA\_F  
ClientSampled :  
SP-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.4  | 36.5  | 54.7  |
| 54      | 44.5  | 36.0  | 54.0  |

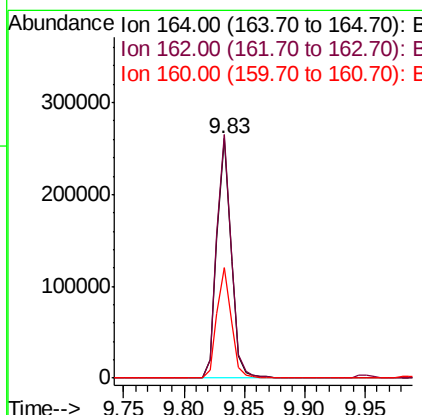
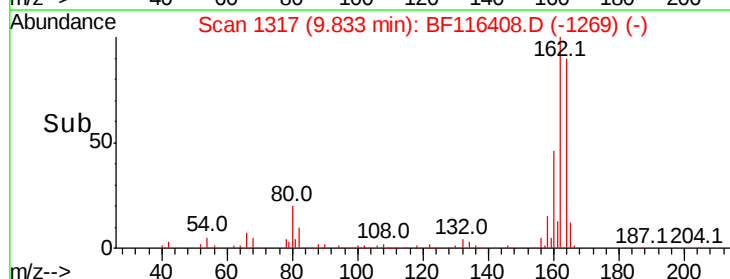
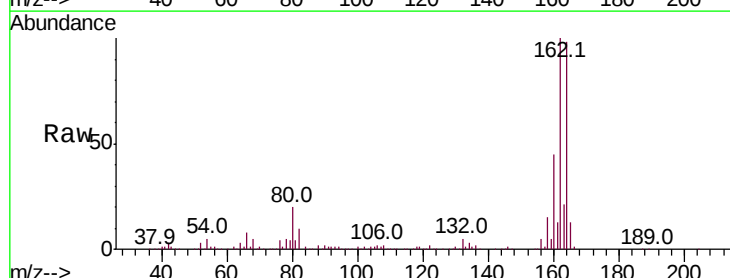
Manual Integrations  
APPROVED

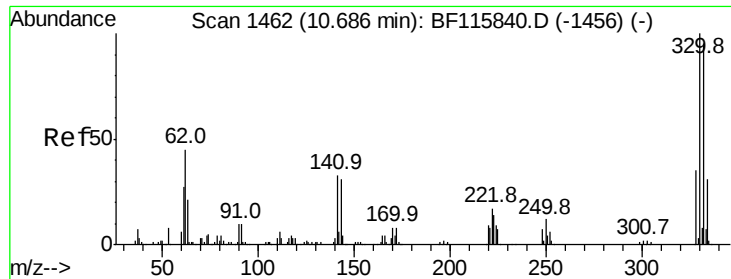
mohammad  
8/22/2019 12:45:45 PM



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.02 min  
Lab File: BF116408.D  
Acq: 20 Aug 2019 00:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 82.6  | 124.0 |
| 160     | 46.2  | 37.6  | 56.4  |





#42

2,4,6-Tribromophenol

Concen: 120.025 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.02 min

Lab File: BF116408.D

Acq: 20 Aug 2019 00:38

Instrument :

BNA\_F

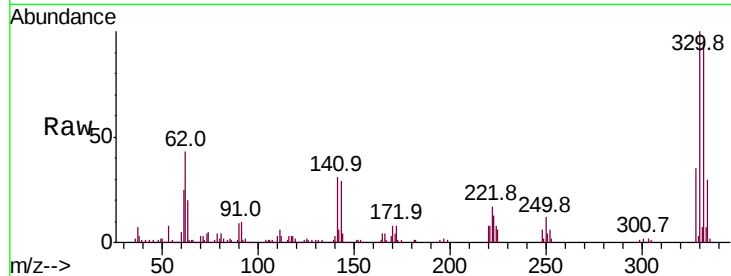
ClientSampleId :

SP-8

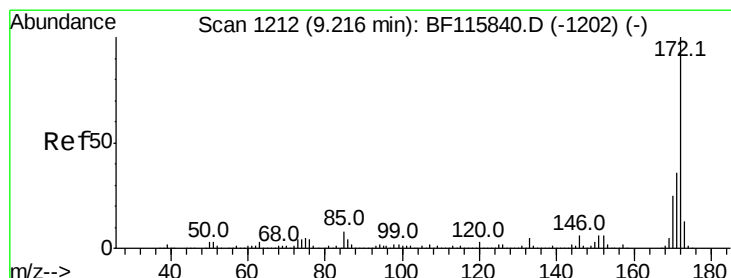
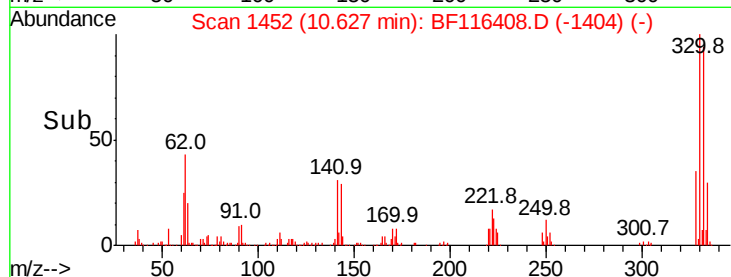
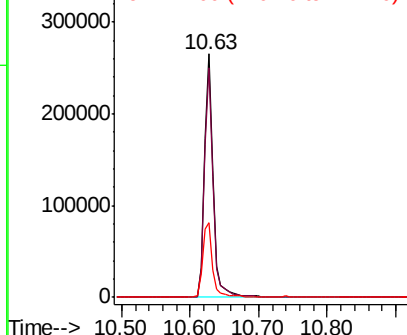
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 246496 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 94.3  | 76.8  | 115.2  |
| 141       | 34.0  | 26.3  | 39.5   |

Manual Integrations  
APPROVED

mohammad  
8/22/2019 12:45:45 PM



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 70.883 ng

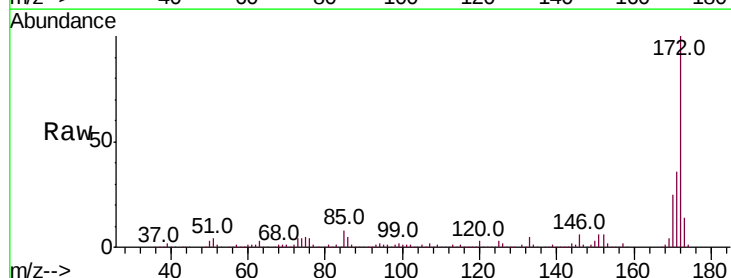
RT: 9.15 min Scan# 1201

Delta R.T. -0.02 min

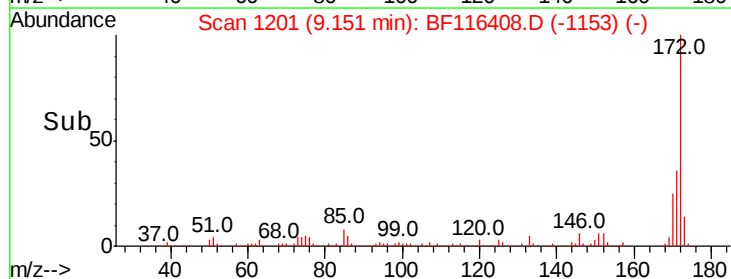
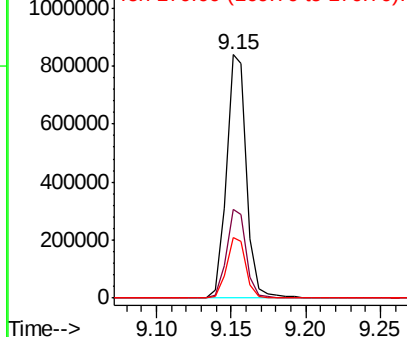
Lab File: BF116408.D

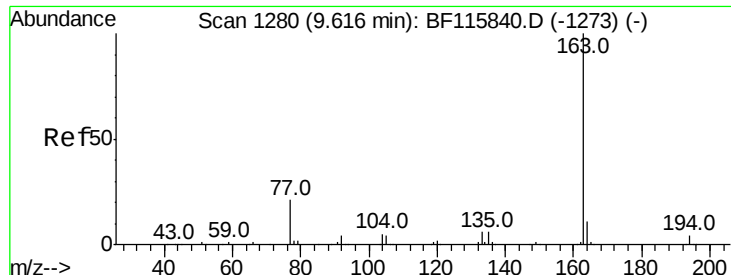
Acq: 20 Aug 2019 00:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 801616 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.4  | 29.6  | 44.4   |
| 170       | 24.7  | 20.1  | 30.1   |



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





#50

Dimethylphthalate

Concen: 13.850 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF116408.D

Acq: 20 Aug 2019 00:38

Instrument :

BNA\_F

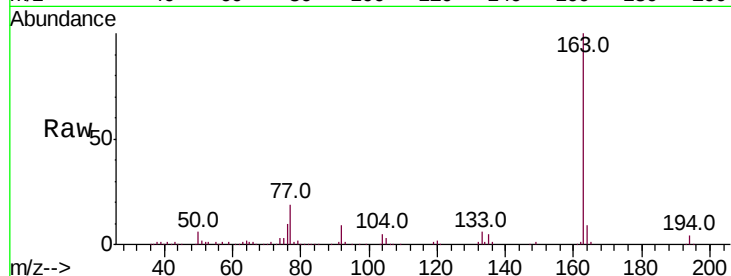
ClientSampleId :

SP-8

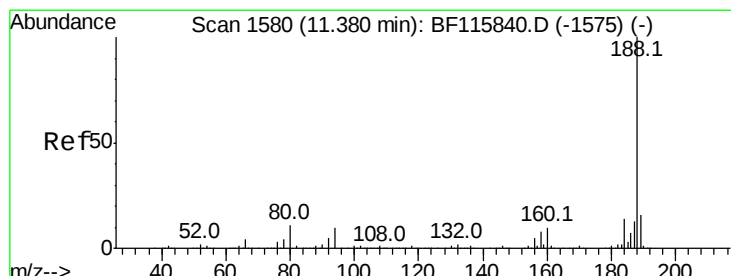
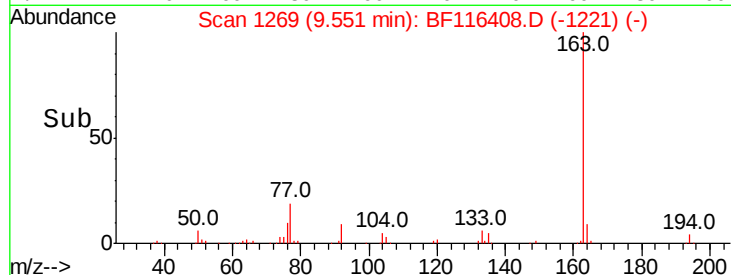
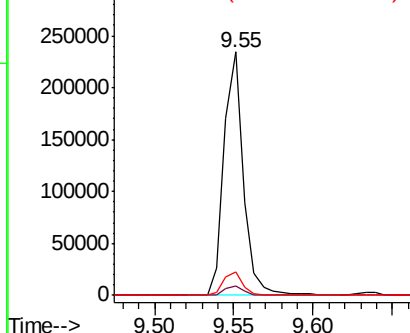
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 199761 |       |       |
| 194     | 3.8   |        | 3.0   | 4.6   |
| 164     | 9.5   |        | 8.4   | 12.6  |

Manual Integrations  
APPROVED

mohammad  
8/22/2019 12:45:45 PM



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

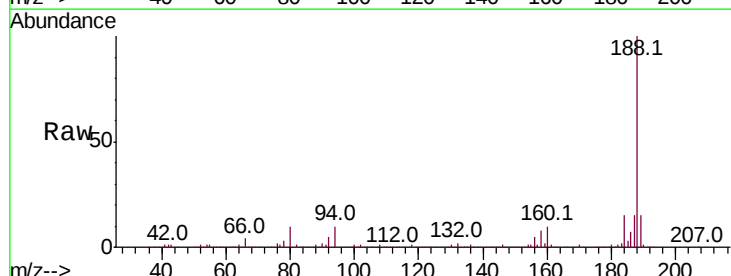
RT: 11.32 min Scan# 1570

Delta R.T. -0.02 min

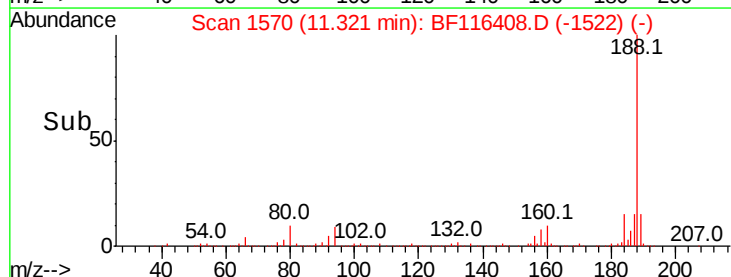
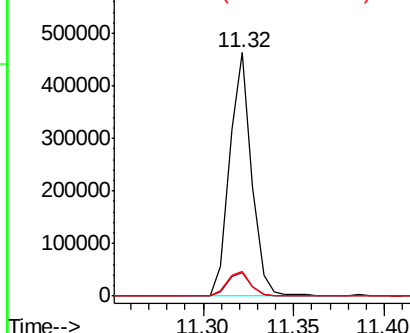
Lab File: BF116408.D

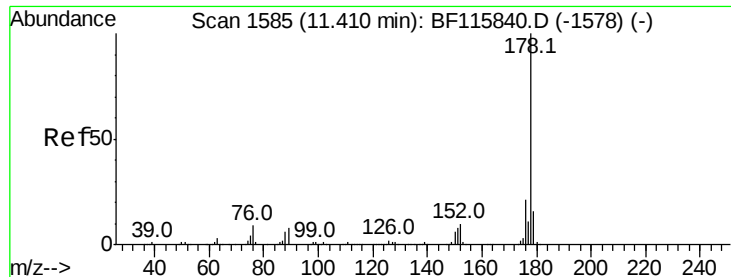
Acq: 20 Aug 2019 00:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 390920 |       |       |
| 94      | 9.6   |        | 8.1   | 12.1  |
| 80      | 9.9   |        | 8.7   | 13.1  |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





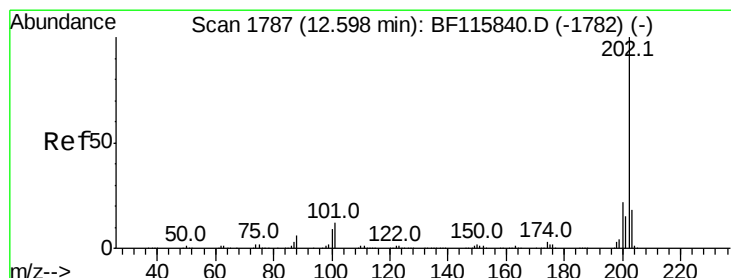
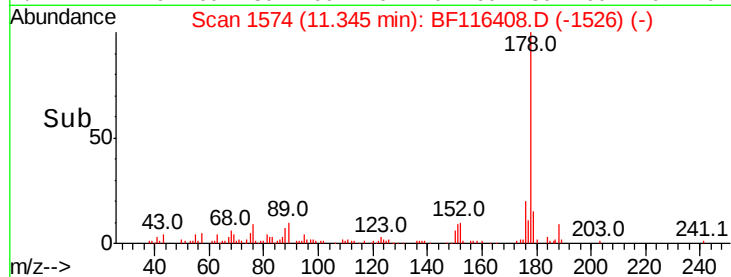
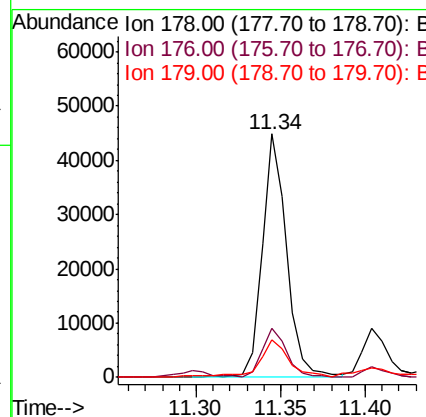
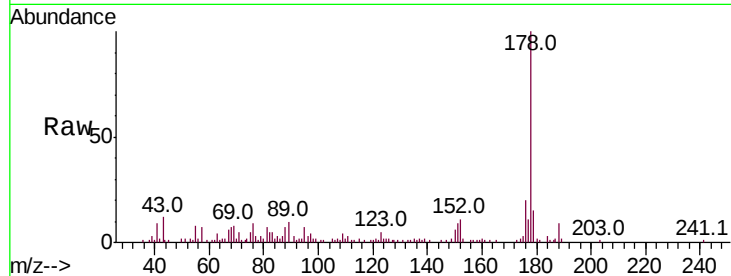
#71  
Phenanthrene  
Concen: 2.246 ng  
RT: 11.34 min Scan# 1574  
Delta R.T. -0.02 min  
Lab File: BF116408.D  
Acq: 20 Aug 2019 00:38

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.2  | 16.6  | 24.8  |
| 179     | 15.3  | 12.5  | 18.7  |

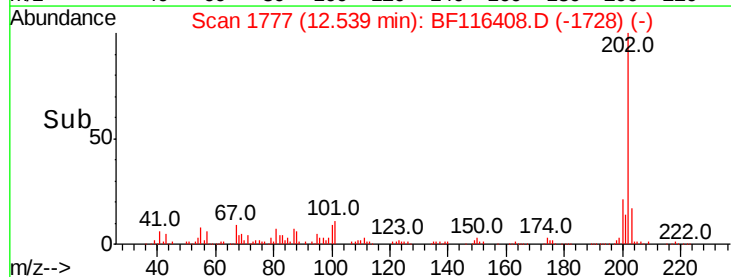
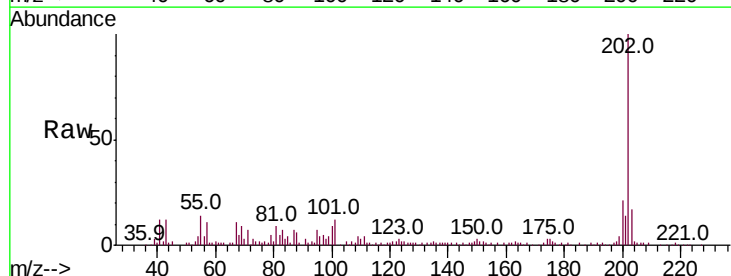
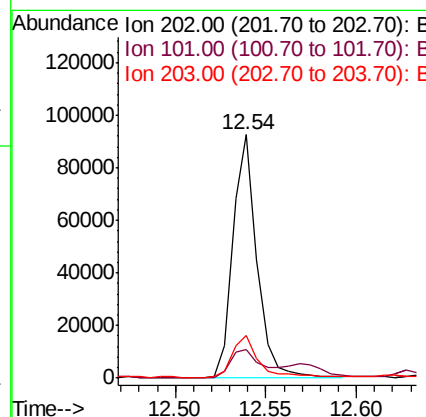
Manual Integrations  
APPROVED

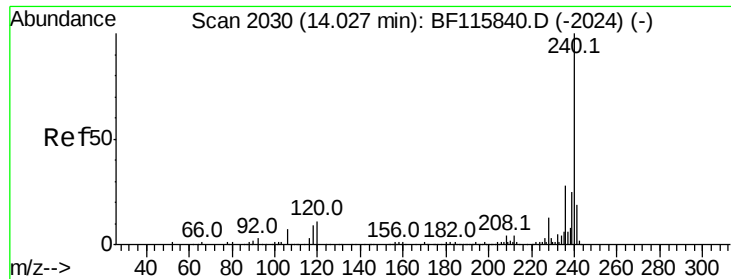
mohammad  
8/22/2019 12:45:45 PM



#75  
Fluoranthene  
Concen: 4.103 ng  
RT: 12.54 min Scan# 1777  
Delta R.T. -0.01 min  
Lab File: BF116408.D  
Acq: 20 Aug 2019 00:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.6  | 0.0   | 31.2  |
| 203     | 17.4  | 0.0   | 37.8  |





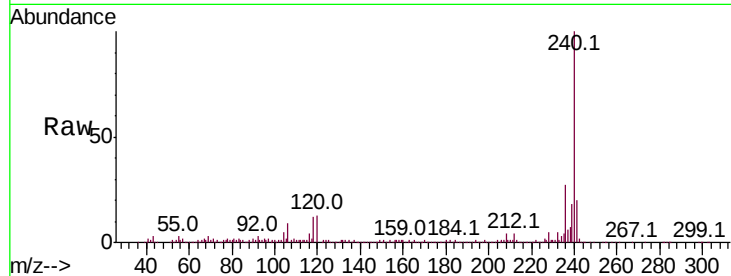
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.02 min  
Lab File: BF116408.D  
Acq: 20 Aug 2019 00:38

Instrument :  
BNA\_F  
ClientSampleId :  
SP-8

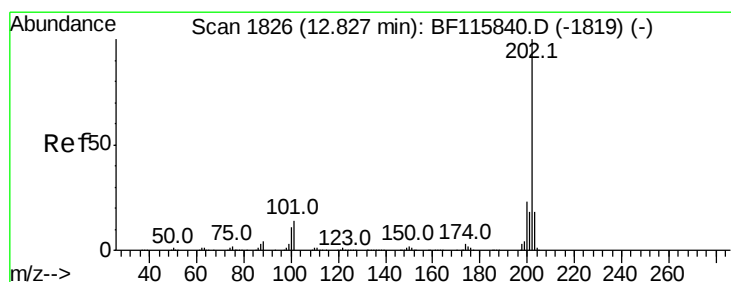
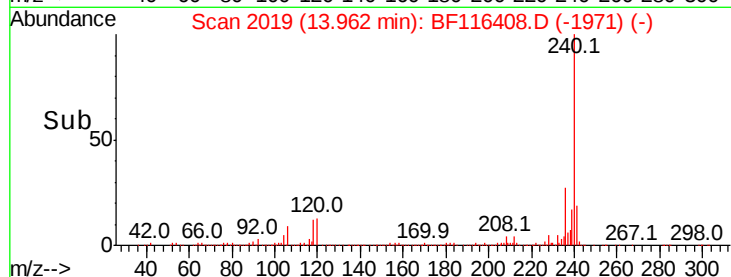
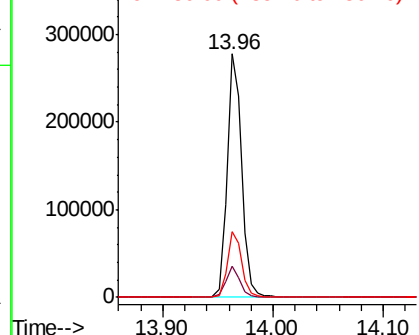
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 257185 |       |       |
| 120     | 13.0  | 10.7   | 16.1  |       |
| 236     | 26.8  | 22.2   | 33.2  |       |

Manual Integrations  
APPROVED

mohammad  
8/22/2019 12:45:45 PM

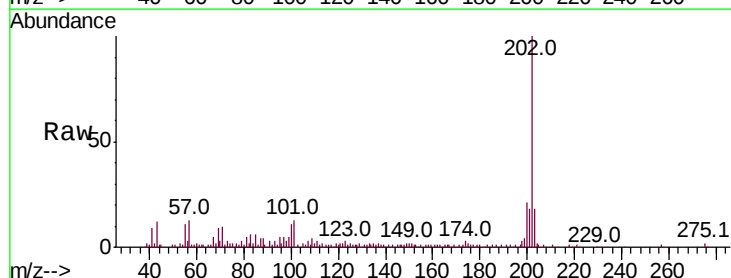


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

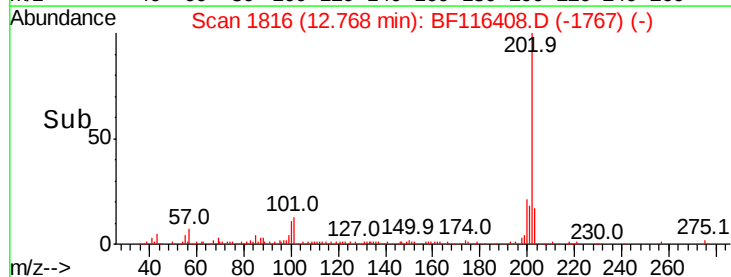
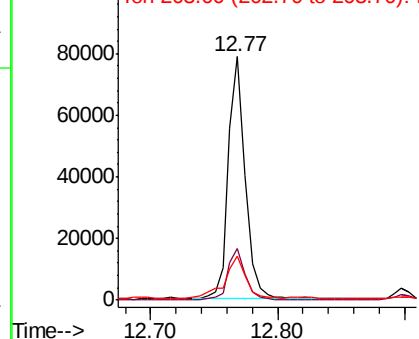


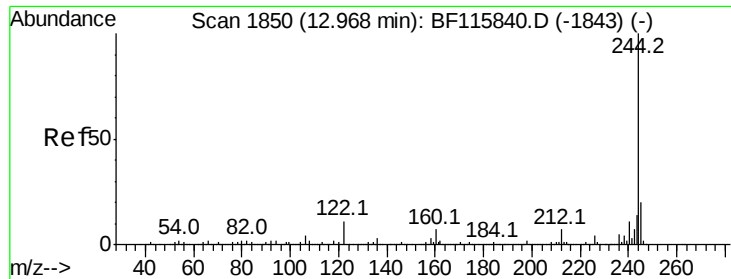
#78  
Pyrene  
Concen: 3.764 ng  
RT: 12.77 min Scan# 1816  
Delta R.T. -0.01 min  
Lab File: BF116408.D  
Acq: 20 Aug 2019 00:38

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 72980 |       |       |
| 200     | 21.2  | 18.0  | 27.0  |       |
| 203     | 17.8  | 14.1  | 21.1  |       |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





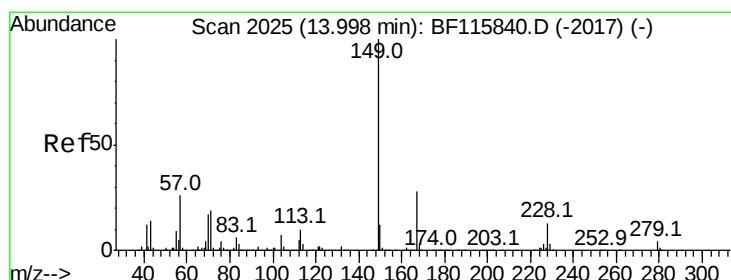
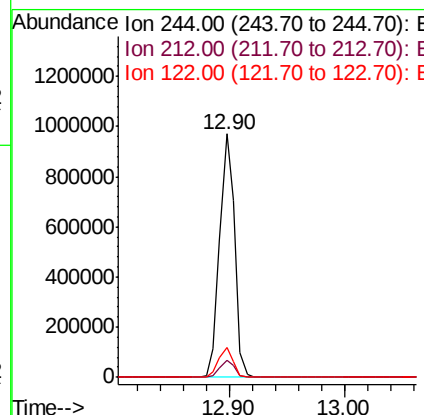
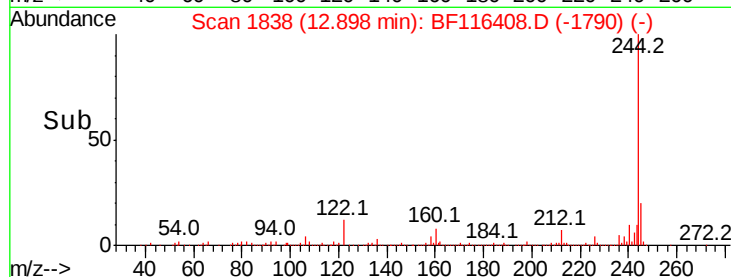
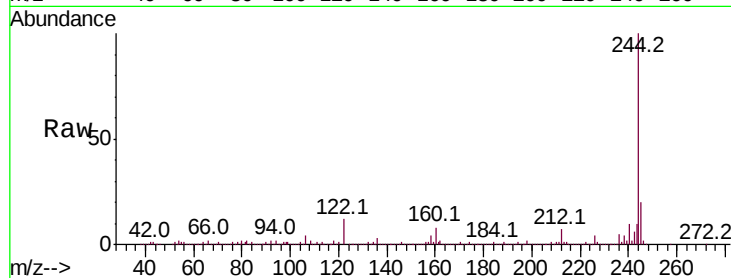
#79  
 Terphenyl-d14  
 Concen: 71.414 ng  
 RT: 12.90 min Scan# 1838  
 Delta R.T. -0.02 min  
 Lab File: BF116408.D  
 Acq: 20 Aug 2019 00:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.8   | 8.8   |
| 122     | 12.3  | 9.0   | 13.4  |

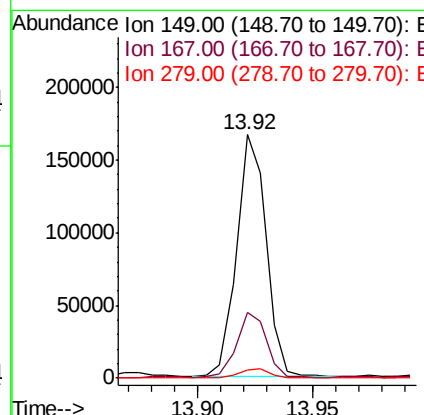
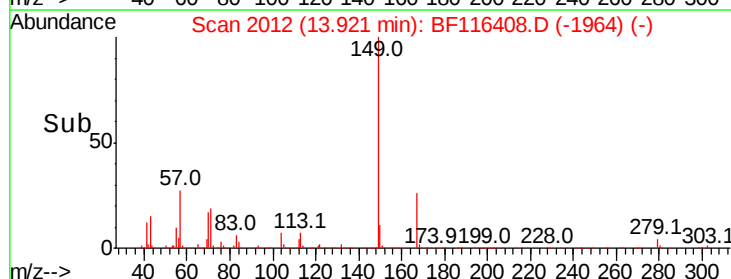
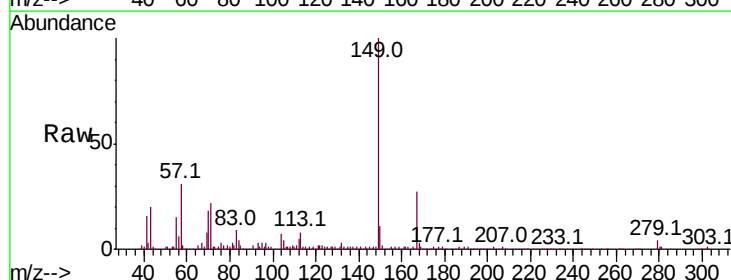
Manual Integrations  
 APPROVED

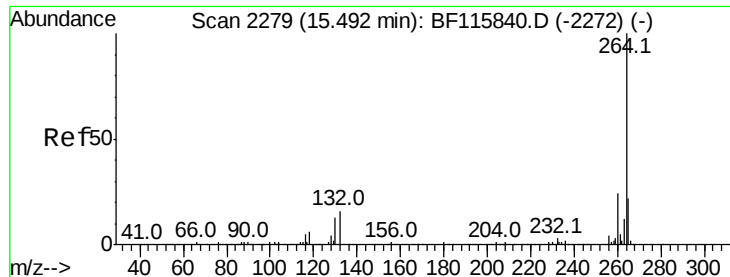
mohammad  
 8/22/2019 12:45:45 PM



#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 13.795 ng  
 RT: 13.92 min Scan# 2012  
 Delta R.T. -0.02 min  
 Lab File: BF116408.D  
 Acq: 20 Aug 2019 00:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.8  | 21.6  | 32.4  |
| 279     | 3.5   | 3.0   | 4.4   |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2267

Delta R.T. -0.02 min

Lab File: BF116408.D

Acq: 20 Aug 2019 00:38

Instrument :

BNA\_F

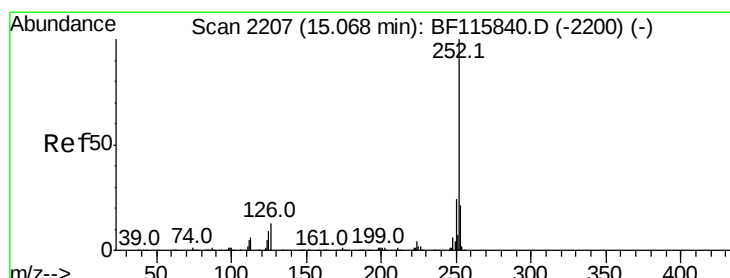
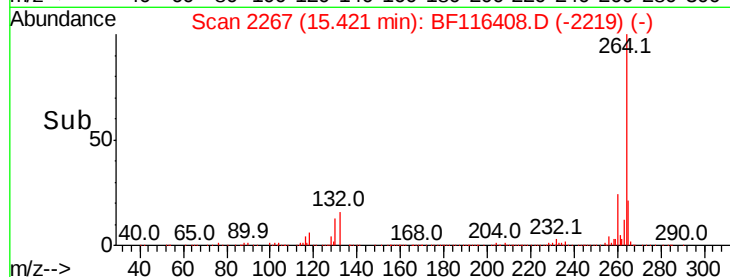
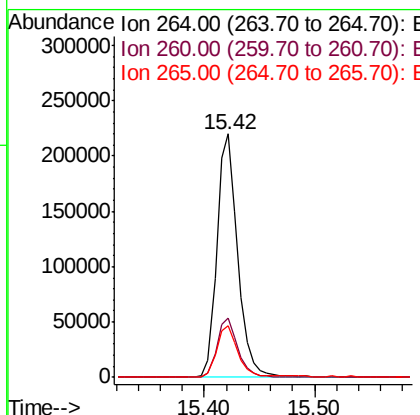
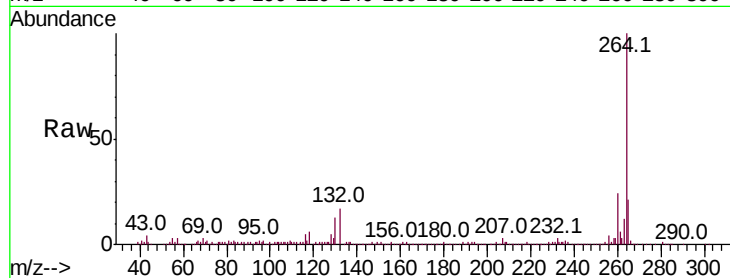
ClientSampled :

SP-8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 287280 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.1  | 19.7  | 29.5   |
| 265       | 21.2  | 17.4  | 26.0   |

Manual Integrations  
APPROVED

mohammad  
8/22/2019 12:45:45 PM



#88

Benzo(b)fluoranthene

Concen: 2.510 ng m

RT: 15.01 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BF116408.D

Acq: 20 Aug 2019 00:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 41697 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.3  | 17.8  | 26.8  |
| 125       | 19.6  | 8.4   | 12.6# |

