

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110416\  
 Data File : BG024690.D  
 Acq On : 5 Nov 2016 00:31  
 Operator : UM/SJ  
 Sample : H5531-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S22-0013

Manual Integrations  
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Quant Time: Nov 05 04:45:33 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG102516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 26 11:14:13 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.27  | 152  | 94204    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.10 | 136  | 376076   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.89 | 164  | 307793   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.62 | 188  | 670674   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.92 | 240  | 971798   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 25.35 | 264  | 1003079  | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.80  | 112  | 526740   | 91.64  | ng    | 0.00     |
| 7) Phenol-d6                | 7.41  | 99   | 483445   | 61.32  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.44  | 82   | 814554   | 98.61  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.37 | 330  | 700883   | 152.42 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.51 | 172  | 1667169  | 90.03  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.20 | 244  | 2910877  | 89.50  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 7.44  | 94   | 19331    | 2.38   | ng    | # 75     |
| 22) Acetophenone            | 9.09  | 105  | 1387367  | 143.62 | ng    | # 92     |
| 27) 2,4-Dimethylphenol      | 10.24 | 122  | 111814m  | 18.73  | ng    |          |
| 31) Naphthalene             | 11.15 | 128  | 2302469  | 122.74 | ng    | 97       |
| 32) Benzoic acid            | 10.41 | 122  | 246420   | 49.56  | ng    | 90       |
| 37) 2-Methylnaphthalene     | 12.73 | 142  | 648769   | 47.40  | ng    | 99       |
| 45) 1,1'-Biphenyl           | 13.72 | 154  | 62288    | 2.92   | ng    | 91       |
| 49) Dimethylphthalate       | 14.32 | 163  | 109881   | 5.03   | ng    | # 94     |

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

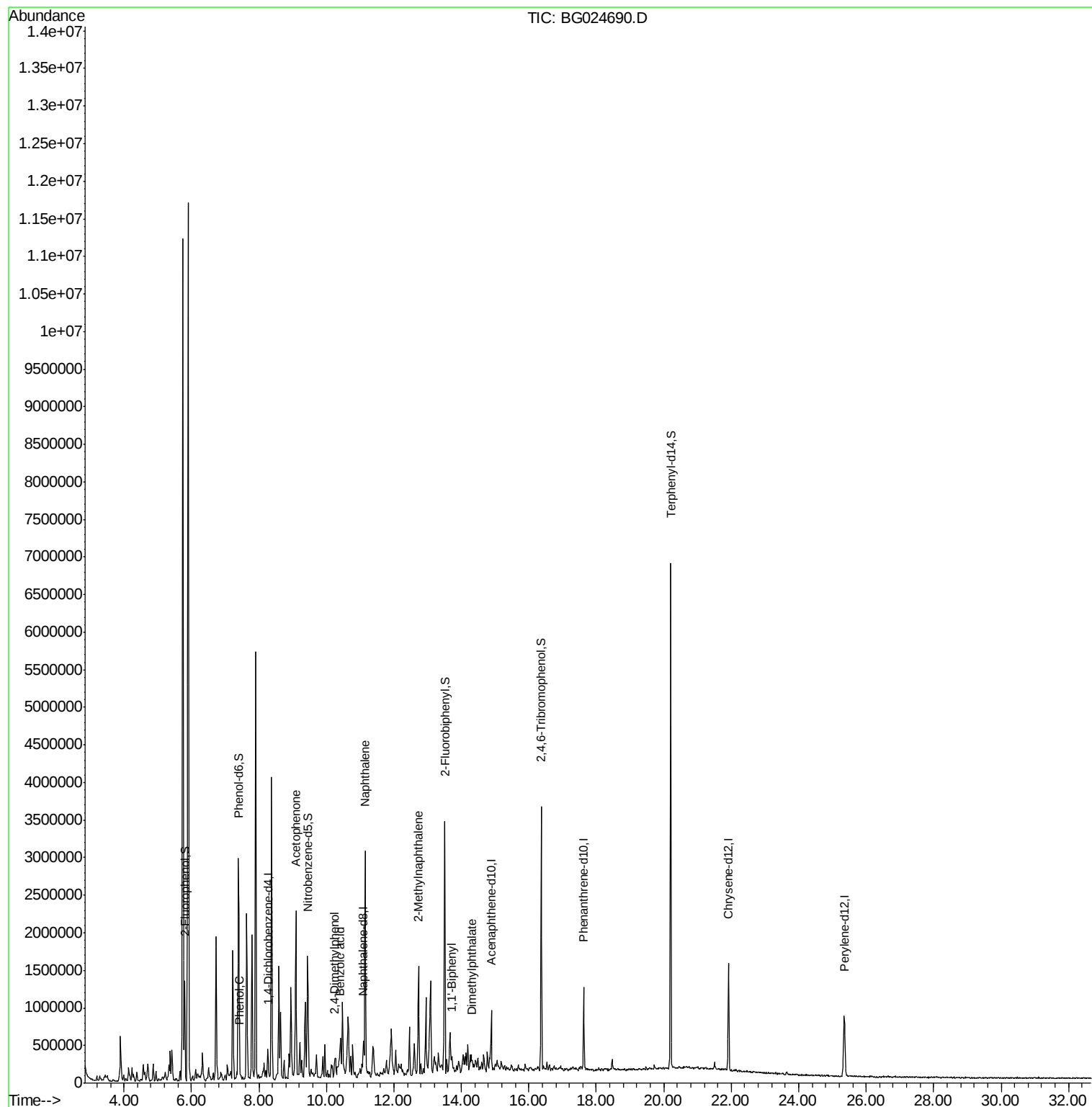
Data Path : Z:\HPCHEM1\BNA G\DATA\BG110416\  
Data File : BG024690.D  
Acq On : 5 Nov 2016 00:31  
Operator : UM/SJ  
Sample : H5531-02  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

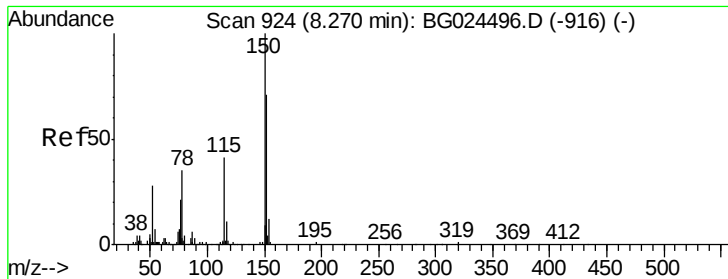
Instrument :  
BNA\_G  
ClientSampleId :  
S22-0013

Manual Integrations  
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Quant Time: Nov 05 04:45:33 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG102516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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#1

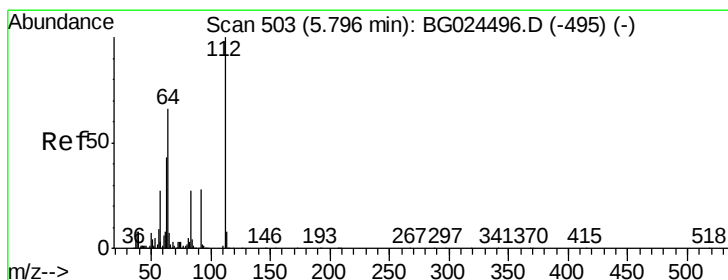
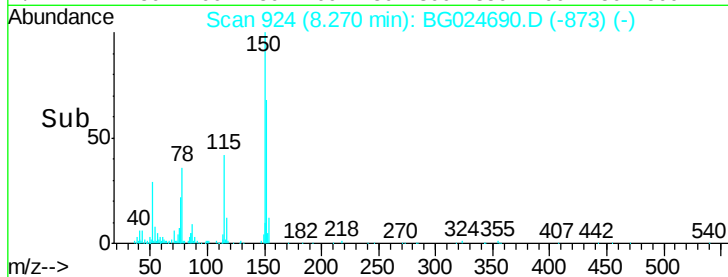
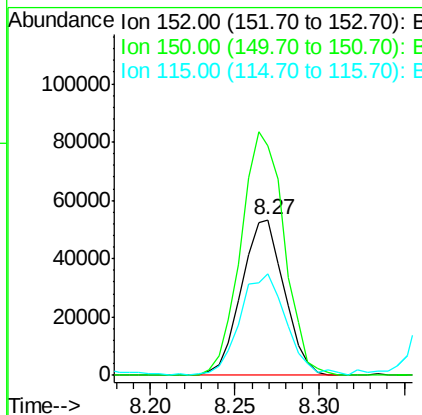
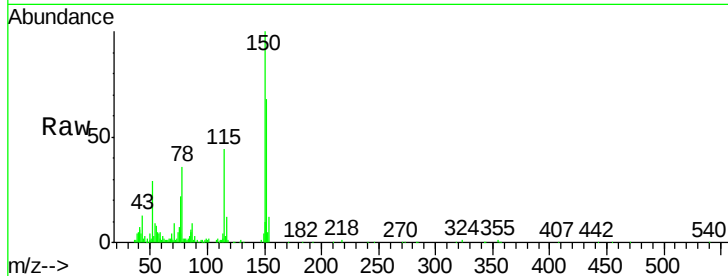
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 8.27 min Scan# 924  
 Delta R.T. 0.00 min  
 Lab File: BG024690.D  
 Acq: 5 Nov 2016 00:31

Instrument :  
 BNA\_G  
 ClientSampled :  
 S22-0013

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 147.9 | 114.0 | 171.0 |
| 115     | 65.7  | 48.1  | 72.1  |

Manual Integrations  
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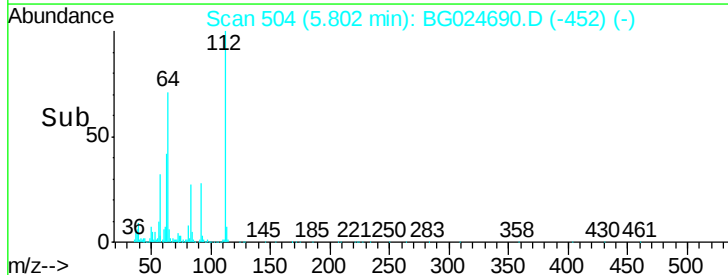
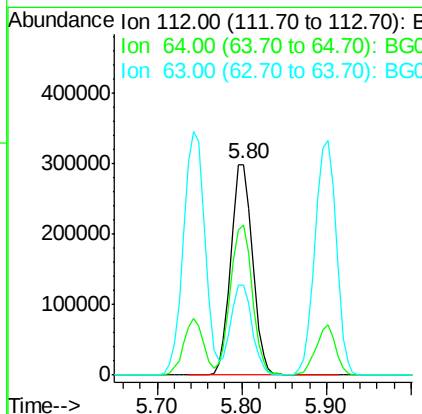
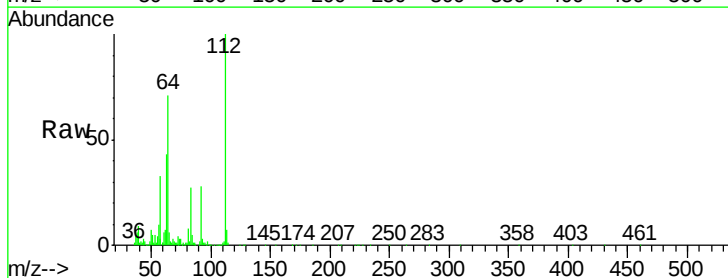
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#5

2-Fluorophenol  
 Concen: 91.64 ng  
 RT: 5.80 min Scan# 504  
 Delta R.T. 0.01 min  
 Lab File: BG024690.D  
 Acq: 5 Nov 2016 00:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.1  | 61.8  | 92.6  |
| 63      | 42.6  | 37.2  | 55.8  |





#7

Phenol-d6

Concen: 61.32 ng

RT: 7.41 min Scan# 777

Delta R.T. 0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

Instrument :

BNA\_G

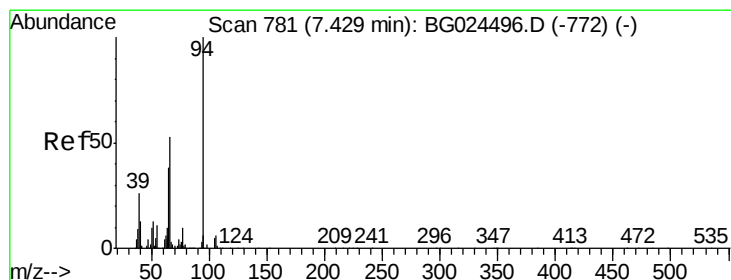
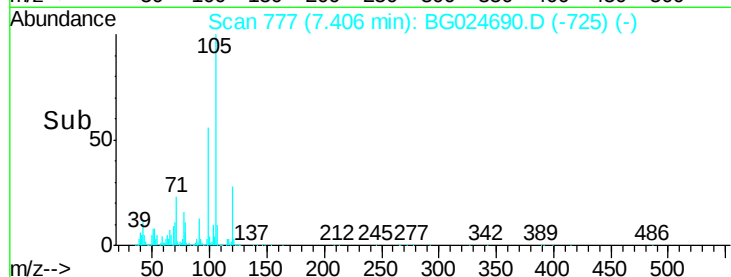
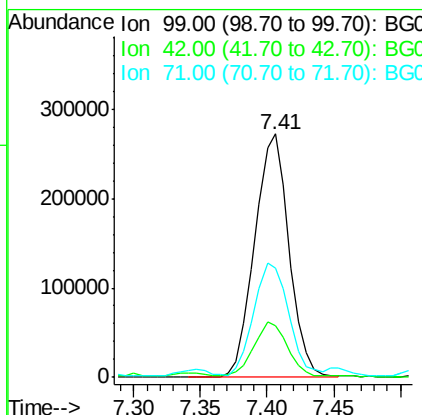
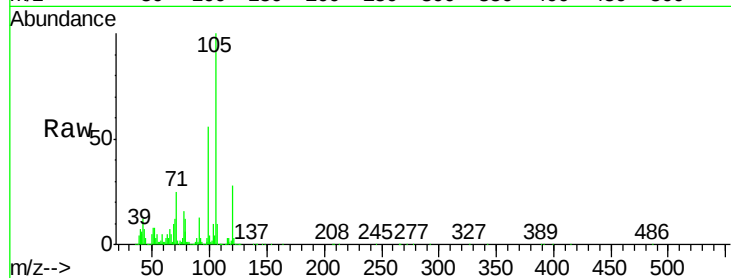
ClientSampleId :

S22-0013

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 483445 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.0  | 20.5  | 30.7   |
| 71        | 45.0  | 37.6  | 56.4   |

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#10

Phenol

Concen: 2.38 ng

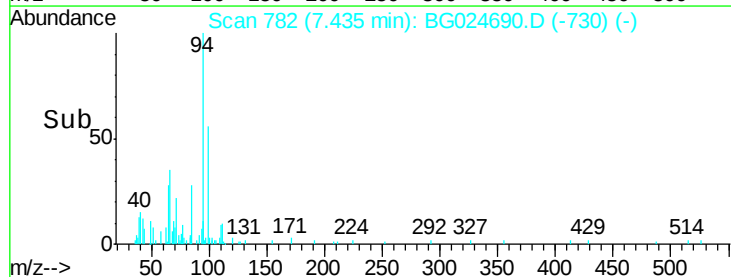
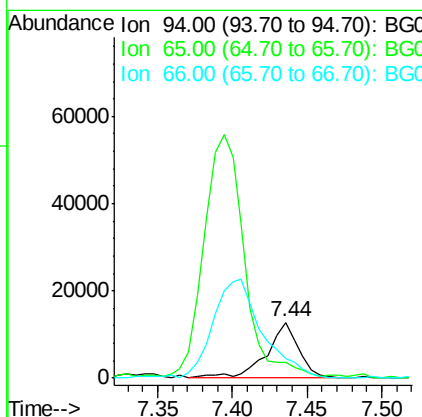
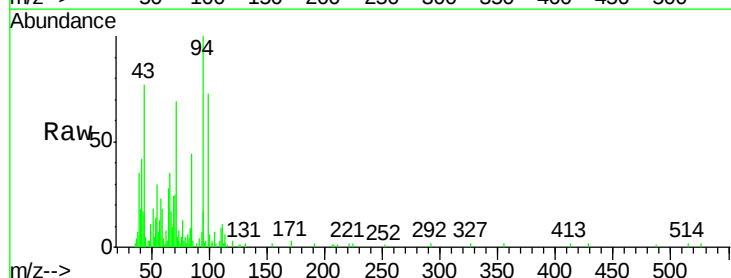
RT: 7.44 min Scan# 782

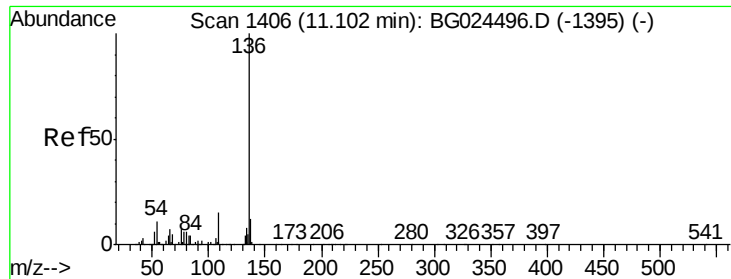
Delta R.T. 0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 19331 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 28.1  | 20.6  | 60.6  |
| 66        | 35.1  | 35.5  | 75.5# |





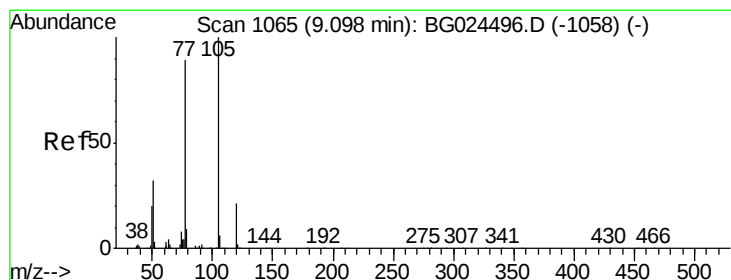
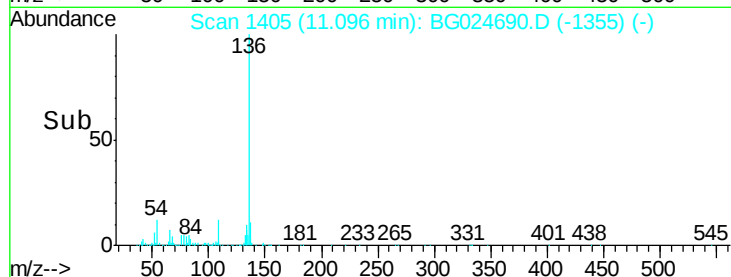
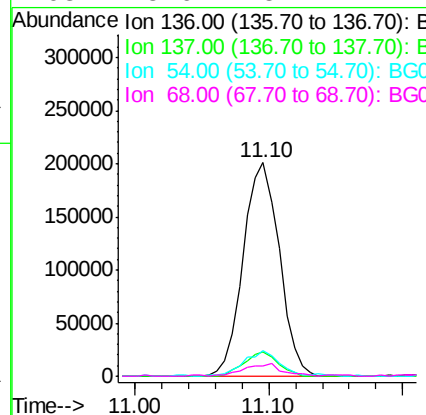
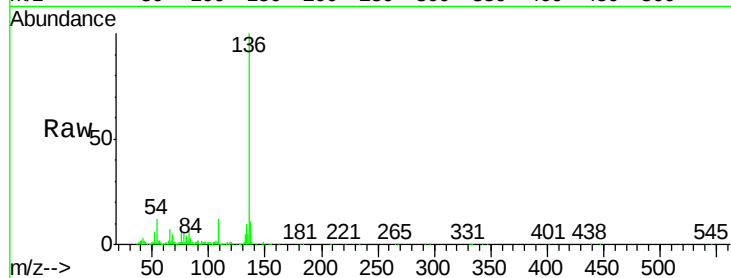
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.10 min Scan# 1405  
Delta R.T. -0.01 min  
Lab File: BG024690.D  
Acq: 5 Nov 2016 00:31

Instrument :  
BNA\_G  
ClientSampleId :  
S22-0013

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.3  | 8.9  | 13.3  |       |
| 54      | 11.9  | 9.3  | 13.9  |       |
| 68      | 5.6   | 5.1  | 7.7   |       |

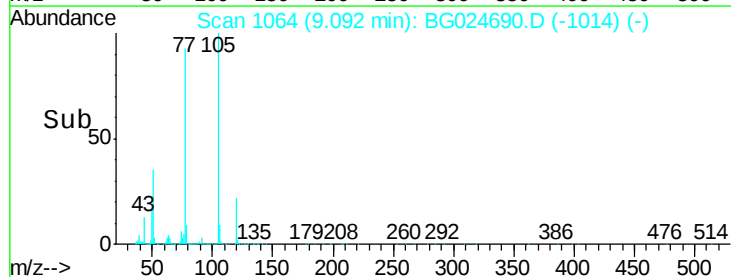
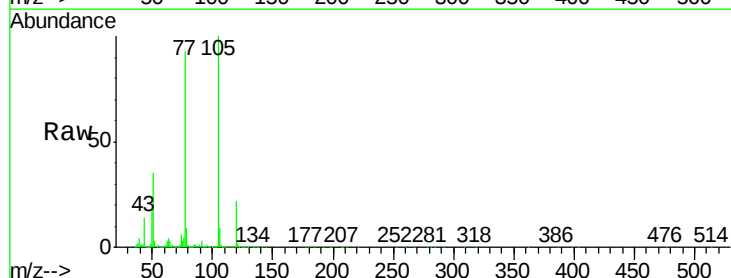
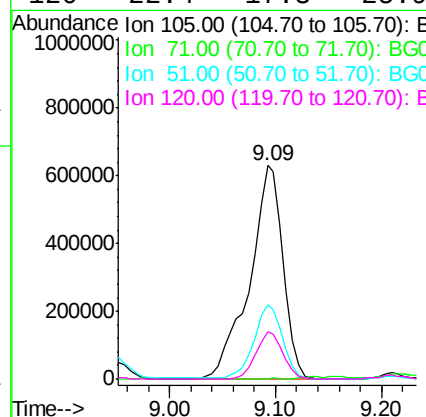
Manual Integrations  
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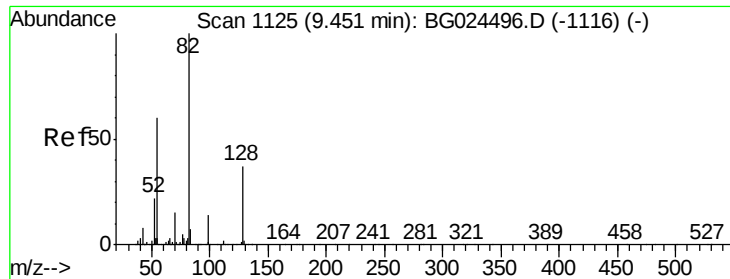
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#22  
Acetophenone  
Concen: 143.62 ng  
RT: 9.09 min Scan# 1064  
Delta R.T. -0.01 min  
Lab File: BG024690.D  
Acq: 5 Nov 2016 00:31

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 105     | 100   |      |       |       |
| 71      | 0.2   | 0.9  | 1.3#  |       |
| 51      | 35.0  | 34.0 | 51.0  |       |
| 120     | 22.4  | 17.3 | 25.9  |       |





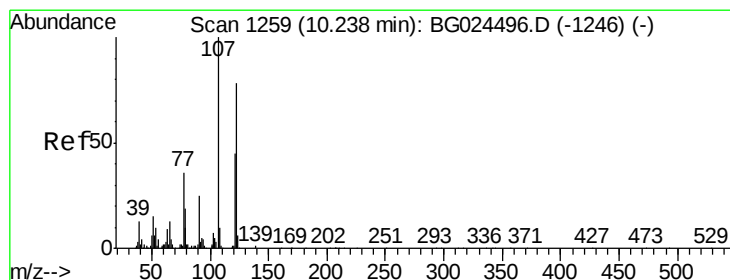
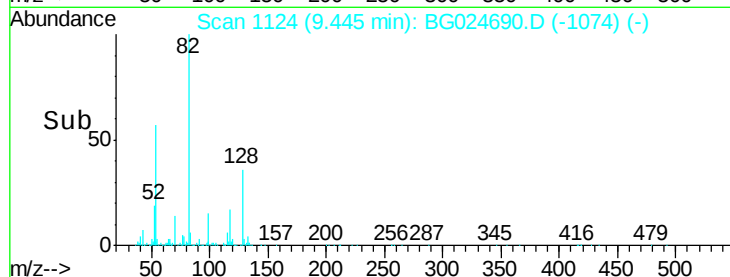
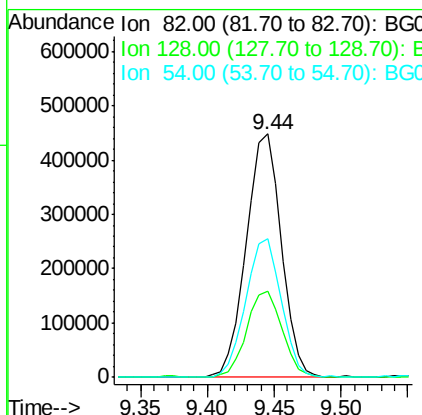
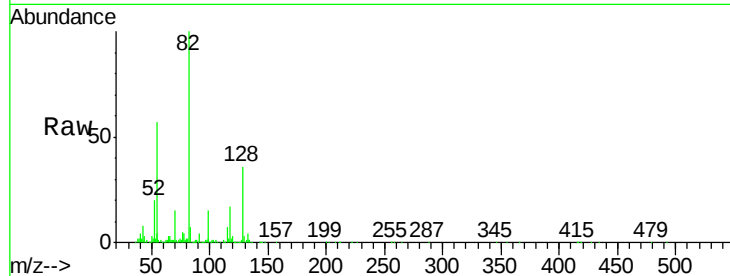
#23  
 Nitrobenzene-d5  
 Concen: 98.61 ng  
 RT: 9.44 min Scan# 1124  
 Delta R.T. -0.01 min  
 Lab File: BG024690.D  
 Acq: 5 Nov 2016 00:31

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S22-0013

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 35.5  | 26.4  | 39.6  |
| 54      | 57.1  | 49.4  | 74.2  |

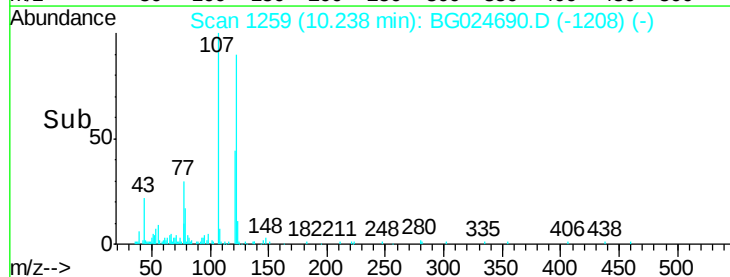
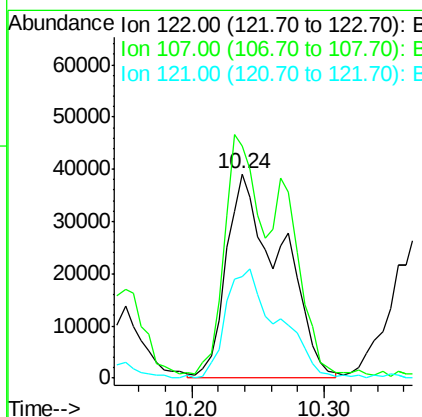
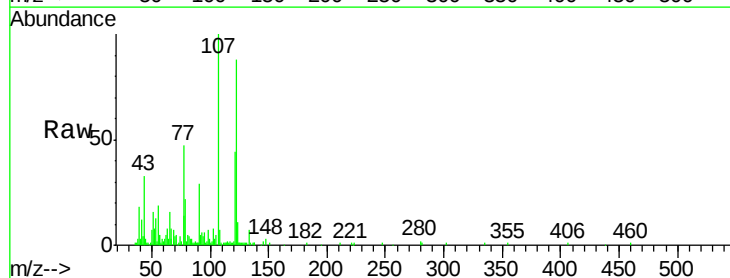
Manual Integrations  
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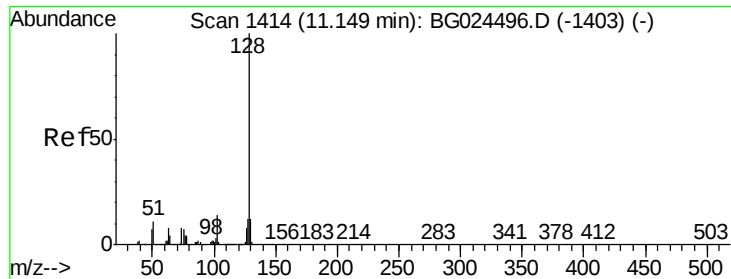
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#27  
 2,4-Dimethylphenol  
 Concen: 18.73 ng m  
 RT: 10.24 min Scan# 1259  
 Delta R.T. 0.00 min  
 Lab File: BG024690.D  
 Acq: 5 Nov 2016 00:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 113.9 | 104.2 | 156.4 |
| 121     | 49.6  | 46.0  | 69.0  |





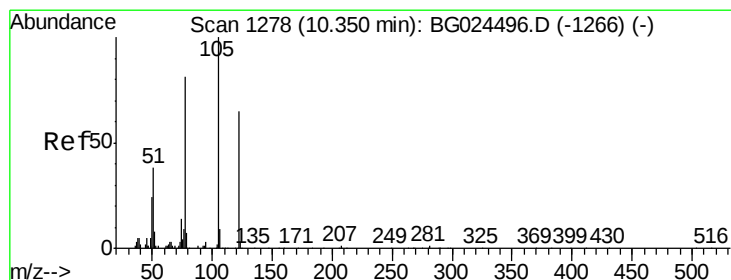
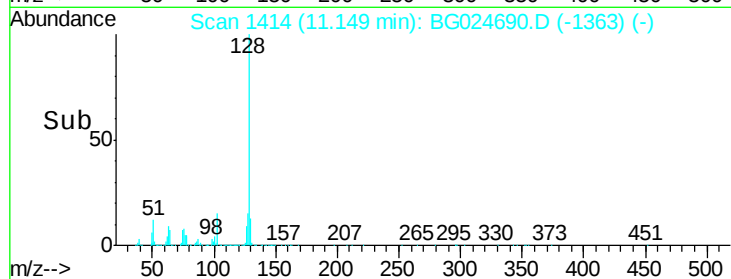
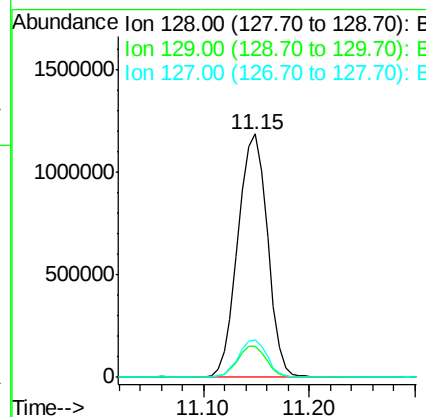
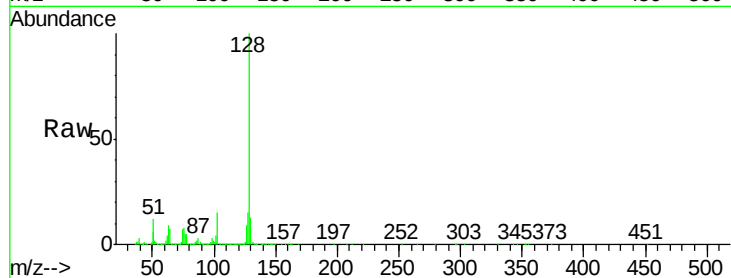
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Naphthalene  
Concen: 122.74 ng  
RT: 11.15 min Scan# 1414  
Delta R.T. 0.00 min  
Lab File: BG024690.D  
Acq: 5 Nov 2016 00:31

Instrument :  
BNA\_G  
ClientSampleId :  
S22-0013

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.6  | 9.3   | 13.9  |
| 127     | 15.3  | 11.4  | 17.0  |

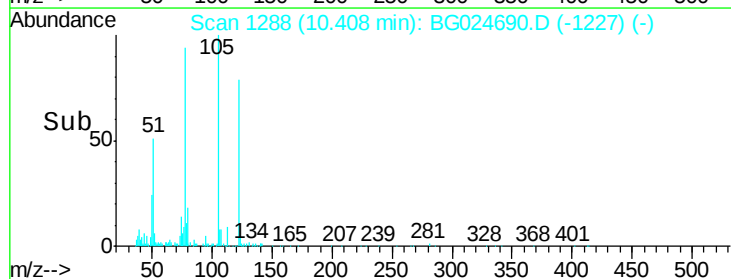
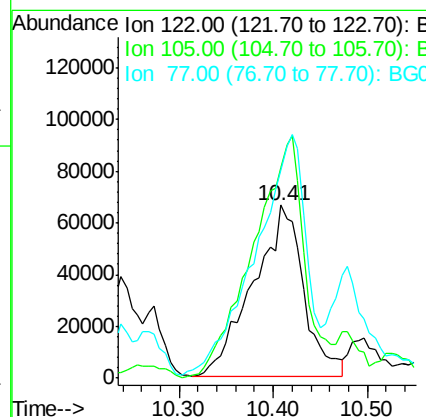
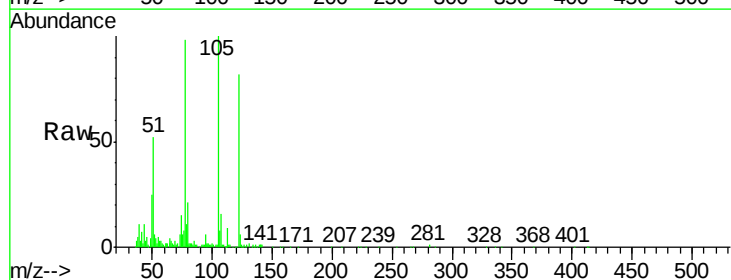
Manual Integrations  
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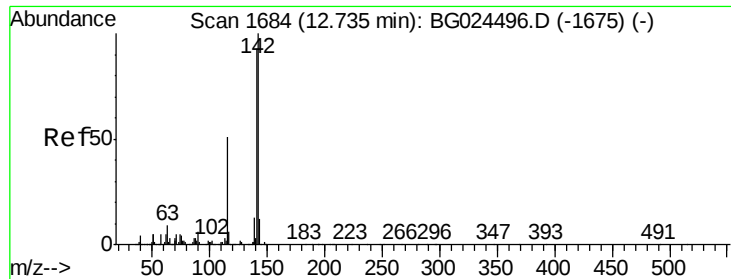
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#32  
Benzoic acid  
Concen: 49.56 ng  
RT: 10.41 min Scan# 1288  
Delta R.T. 0.06 min  
Lab File: BG024690.D  
Acq: 5 Nov 2016 00:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 105     | 121.7 | 120.1 | 160.1 |
| 77      | 119.8 | 104.6 | 144.6 |





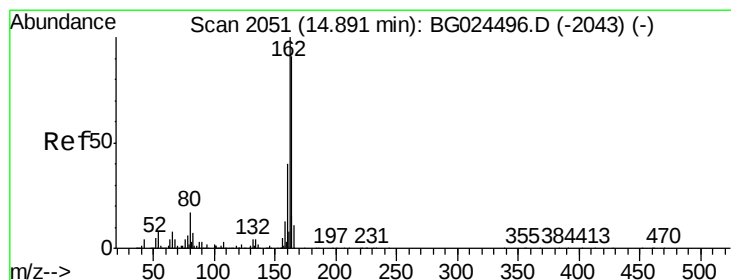
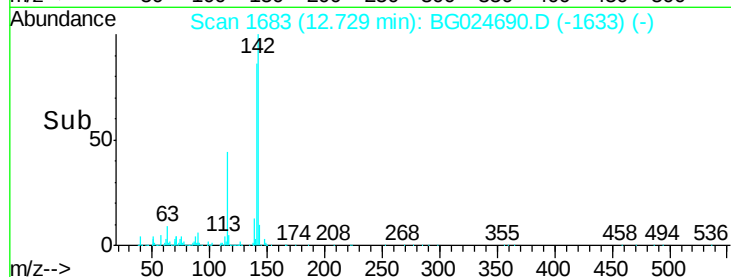
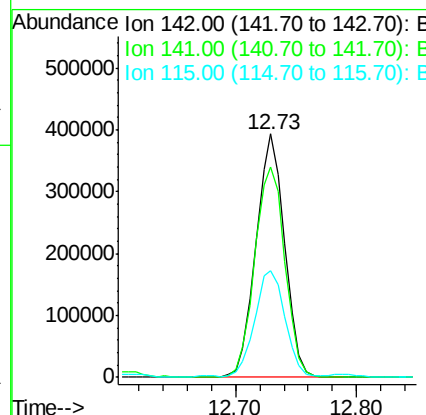
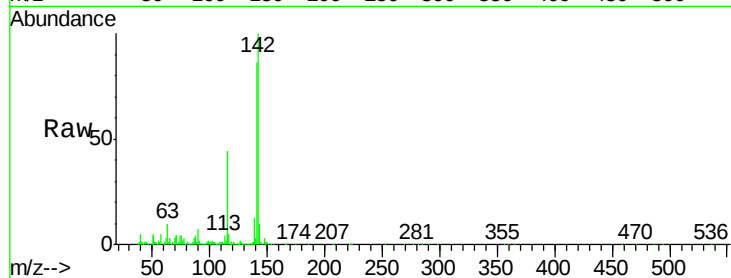
#37  
2-Methylnaphthalene  
Concen: 47.40 ng  
RT: 12.73 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: BG024690.D  
Acq: 5 Nov 2016 00:31

Instrument :  
BNA\_G  
ClientSampled :  
S22-0013

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.3  | 70.4  | 105.6 |
| 115     | 43.9  | 35.5  | 53.3  |

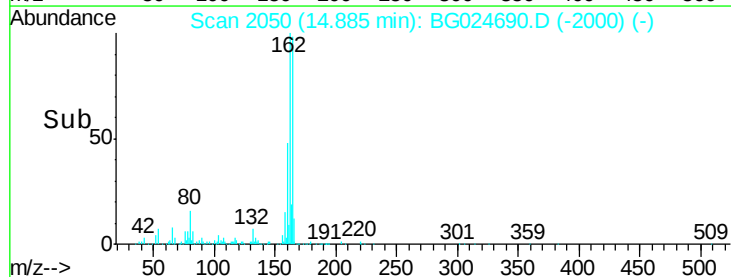
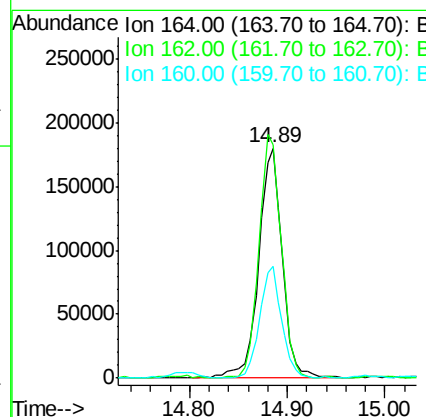
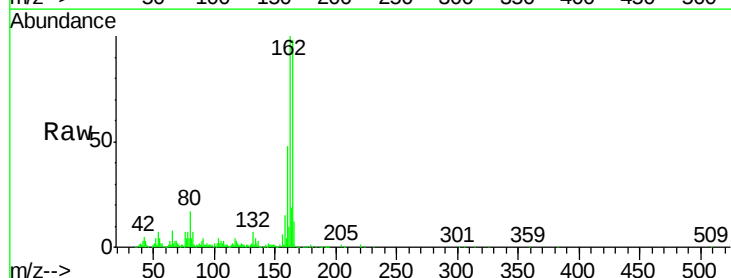
Manual Integrations  
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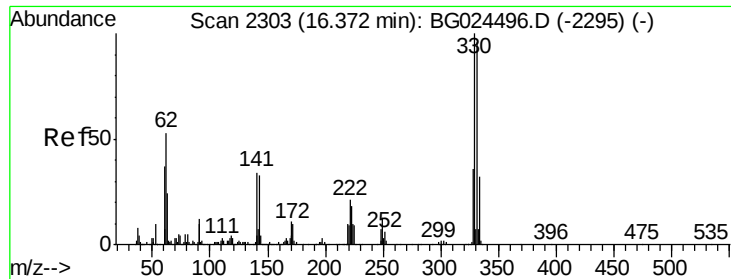
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.89 min Scan# 2050  
Delta R.T. -0.01 min  
Lab File: BG024690.D  
Acq: 5 Nov 2016 00:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.5 | 85.1  | 127.7 |
| 160     | 48.8  | 34.7  | 52.1  |





#41

2,4,6-Tribromophenol

Concen: 152.42 ng

RT: 16.37 min Scan# 2302

Delta R.T. -0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

Instrument :

BNA\_G

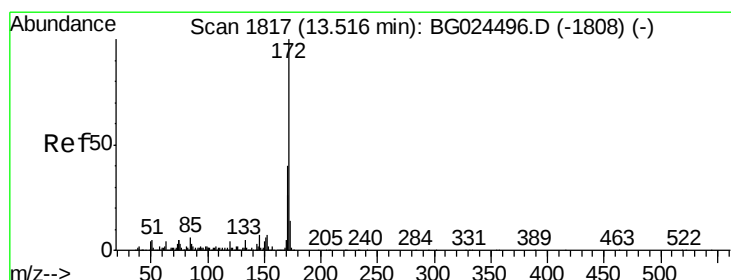
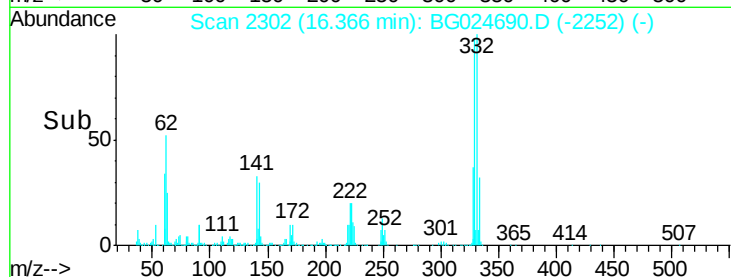
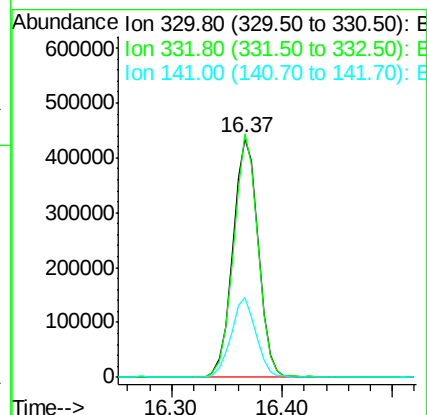
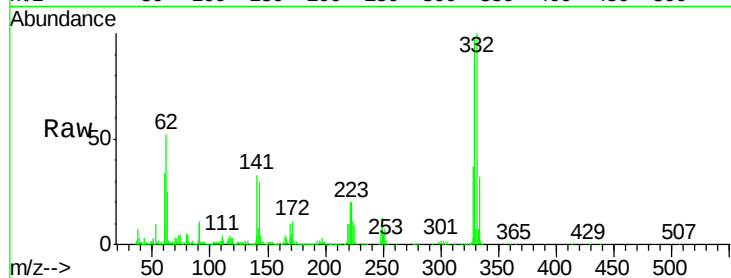
ClientSampled :

S22-0013

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 700883 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.9  | 77.3  | 115.9  |
| 141       | 32.7  | 32.1  | 48.1   |

Manual Integrations  
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#44

2-Fluorobiphenyl

Concen: 90.03 ng

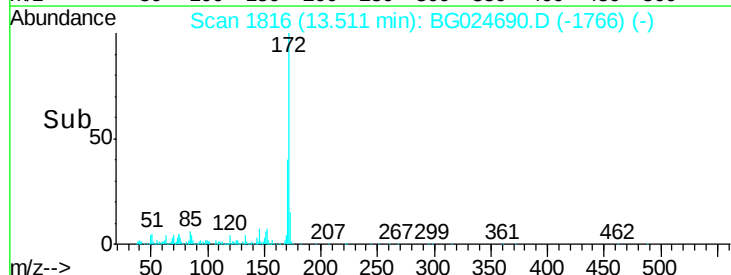
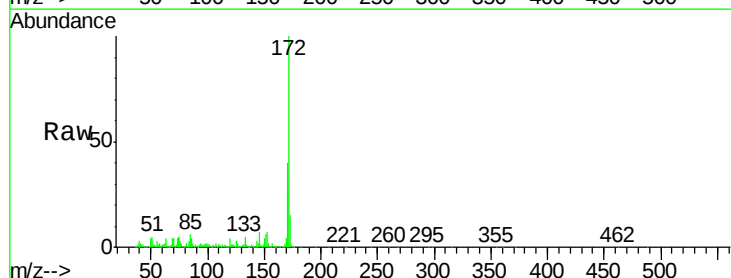
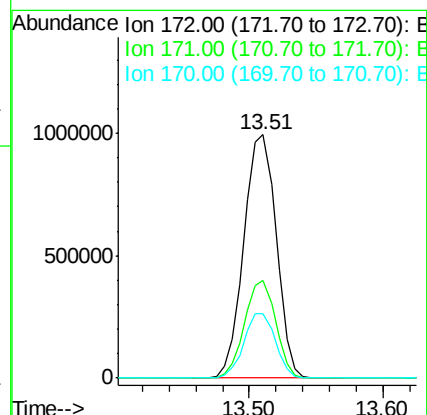
RT: 13.51 min Scan# 1816

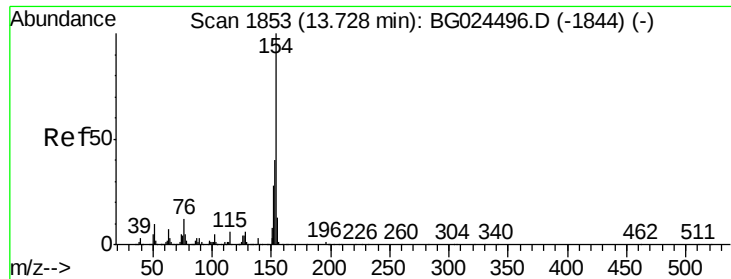
Delta R.T. -0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1667169 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 40.0  | 32.2  | 48.2    |
| 170       | 26.5  | 21.8  | 32.6    |





#45

1,1'-Biphenyl

Concen: 2.92 ng

RT: 13.72 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

Instrument :

BNA\_G

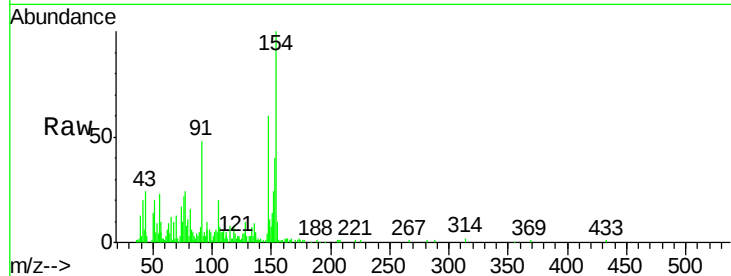
ClientSampled :

S22-0013

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 62288 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 39.6  | 23.0  | 63.0  |
| 76        | 22.5  | 0.0   | 33.5  |

Manual Integrations  
APPROVED

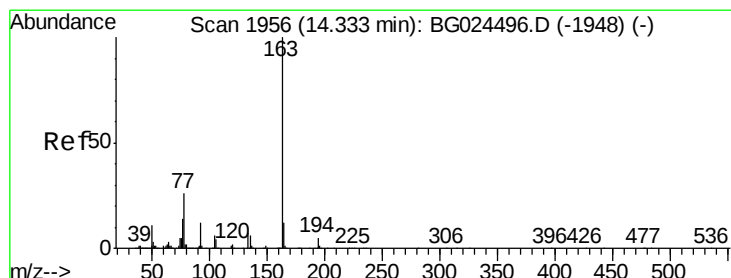
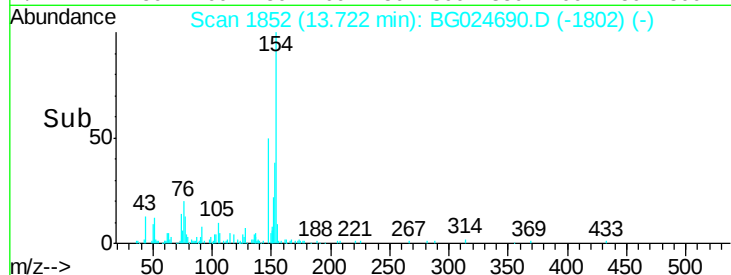
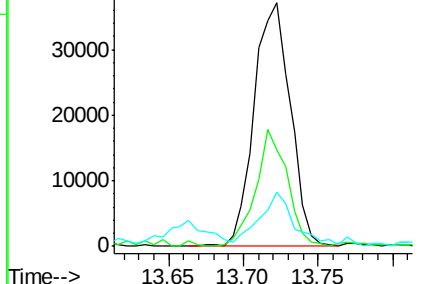
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BGC



#49

Dimethylphthalate

Concen: 5.03 ng

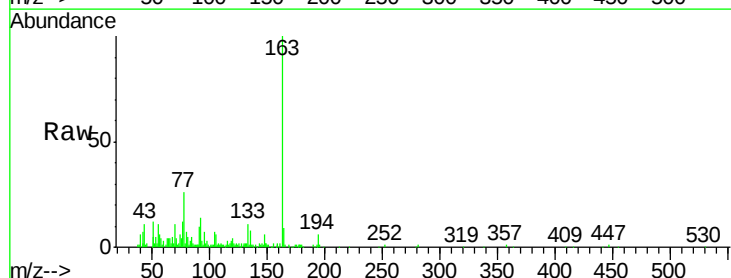
RT: 14.32 min Scan# 1954

Delta R.T. -0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

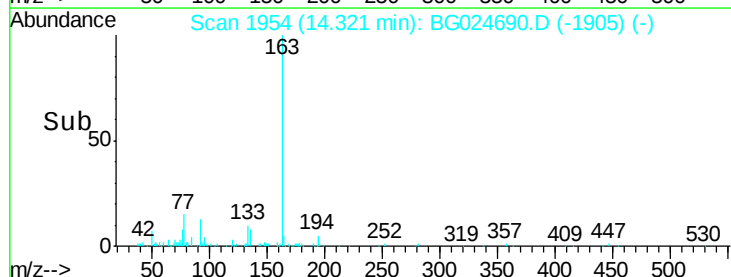
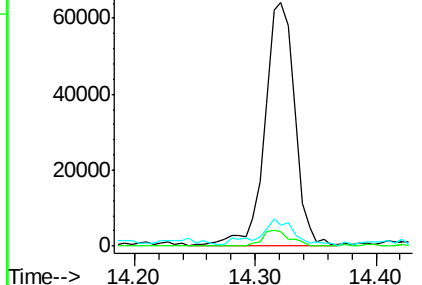
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 109881 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 5.8   | 3.8   | 5.6#   |
| 164       | 8.8   | 9.3   | 13.9#  |

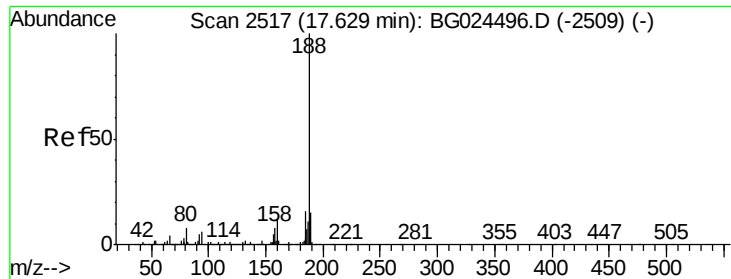


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.62 min Scan# 2516

Delta R.T. -0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

Instrument :

BNA\_G

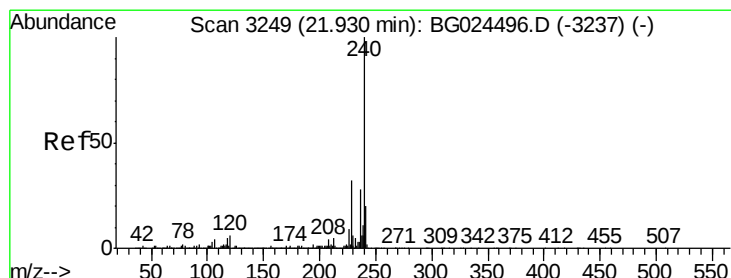
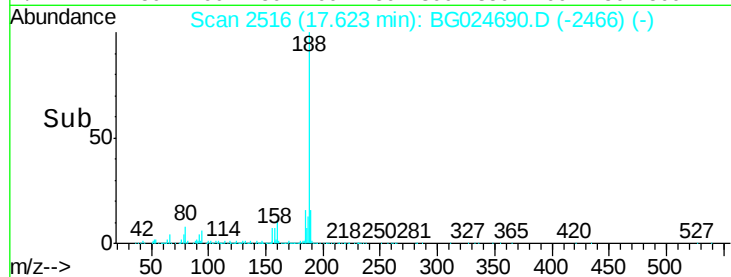
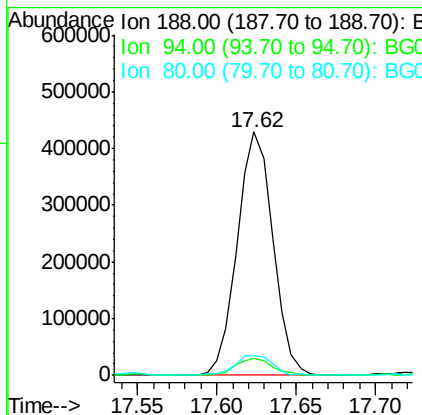
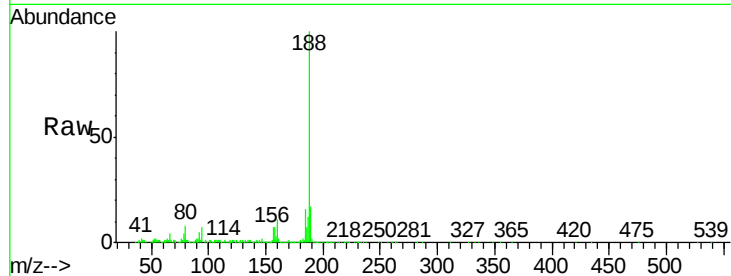
ClientSampled :

S22-0013

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 670674 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 6.8   | 5.8   | 8.8    |
| 80        | 8.0   | 7.5   | 11.3   |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.00 ng

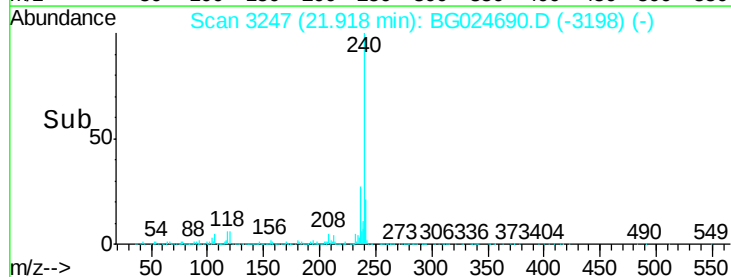
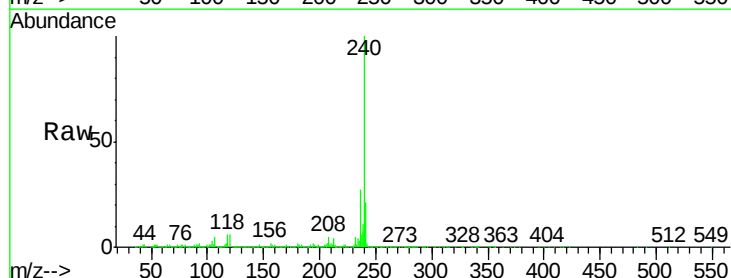
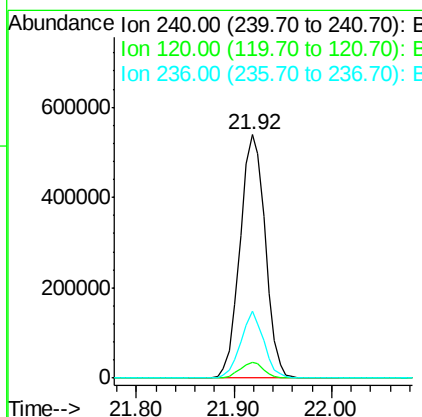
RT: 21.92 min Scan# 3247

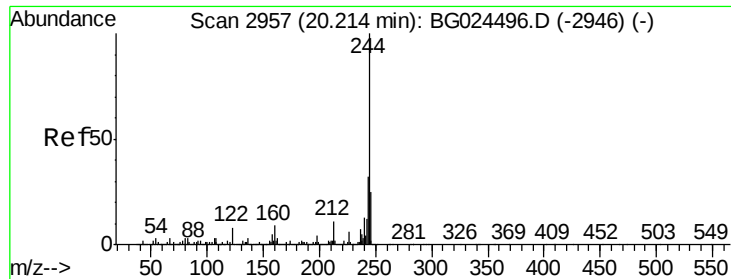
Delta R.T. -0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 971798 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 6.5   | 5.7   | 8.5    |
| 236       | 27.4  | 22.2  | 33.4   |





#78

Terphenyl-d14

Concen: 89.50 ng

RT: 20.20 min Scan# 2955

Delta R.T. -0.01 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

Instrument :

BNA\_G

ClientSampled :

S22-0013

Tot Ion:244 Resp: 2910877

Ion Ratio Lower Upper

244 100

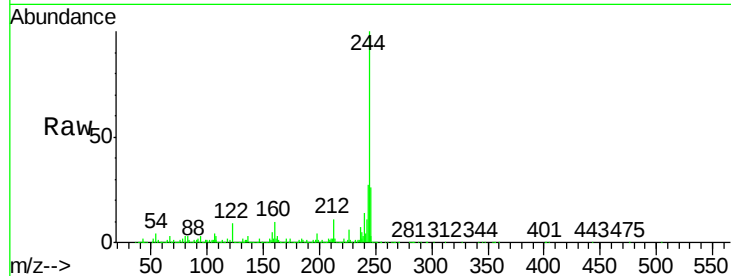
212 11.1 10.0 15.0

122 9.2 8.6 12.8

Manual Integrations  
APPROVED

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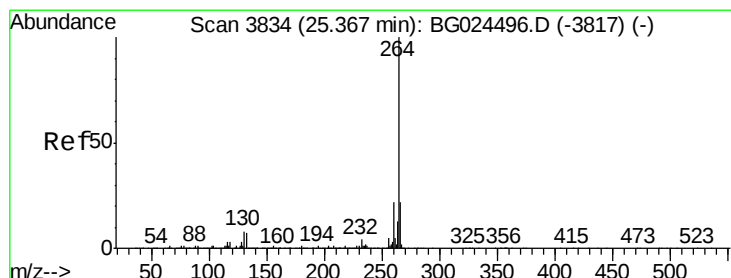
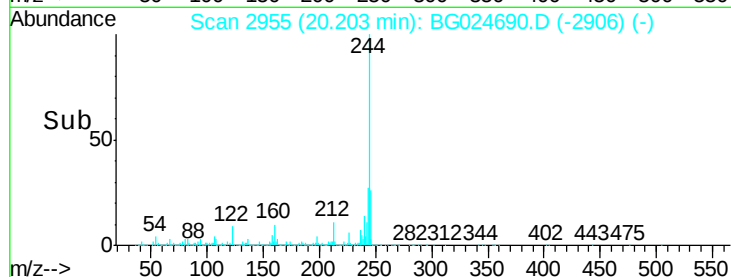
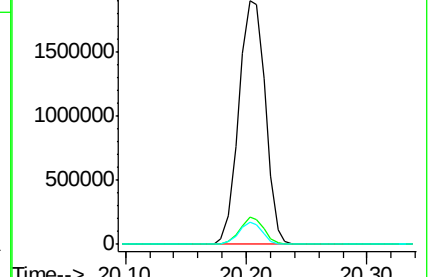
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.35 min Scan# 3831

Delta R.T. -0.02 min

Lab File: BG024690.D

Acq: 5 Nov 2016 00:31

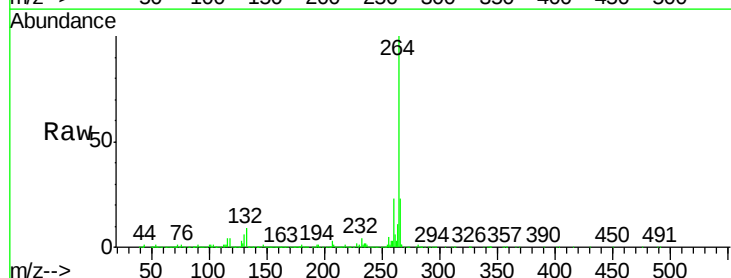
Tgt Ion:264 Resp: 1003079

Ion Ratio Lower Upper

264 100

260 22.5 21.8 32.8

265 22.6 18.2 27.4



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

