

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081917\  
 Data File : BF097890.D  
 Acq On : 19 Aug 2017 20:32  
 Operator : SJ/JU  
 Sample : I4847-01 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PVSC-A-COMP

Quant Time: Aug 21 02:43:27 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 15 13:25:08 2017  
 Response via : Initial Calibration

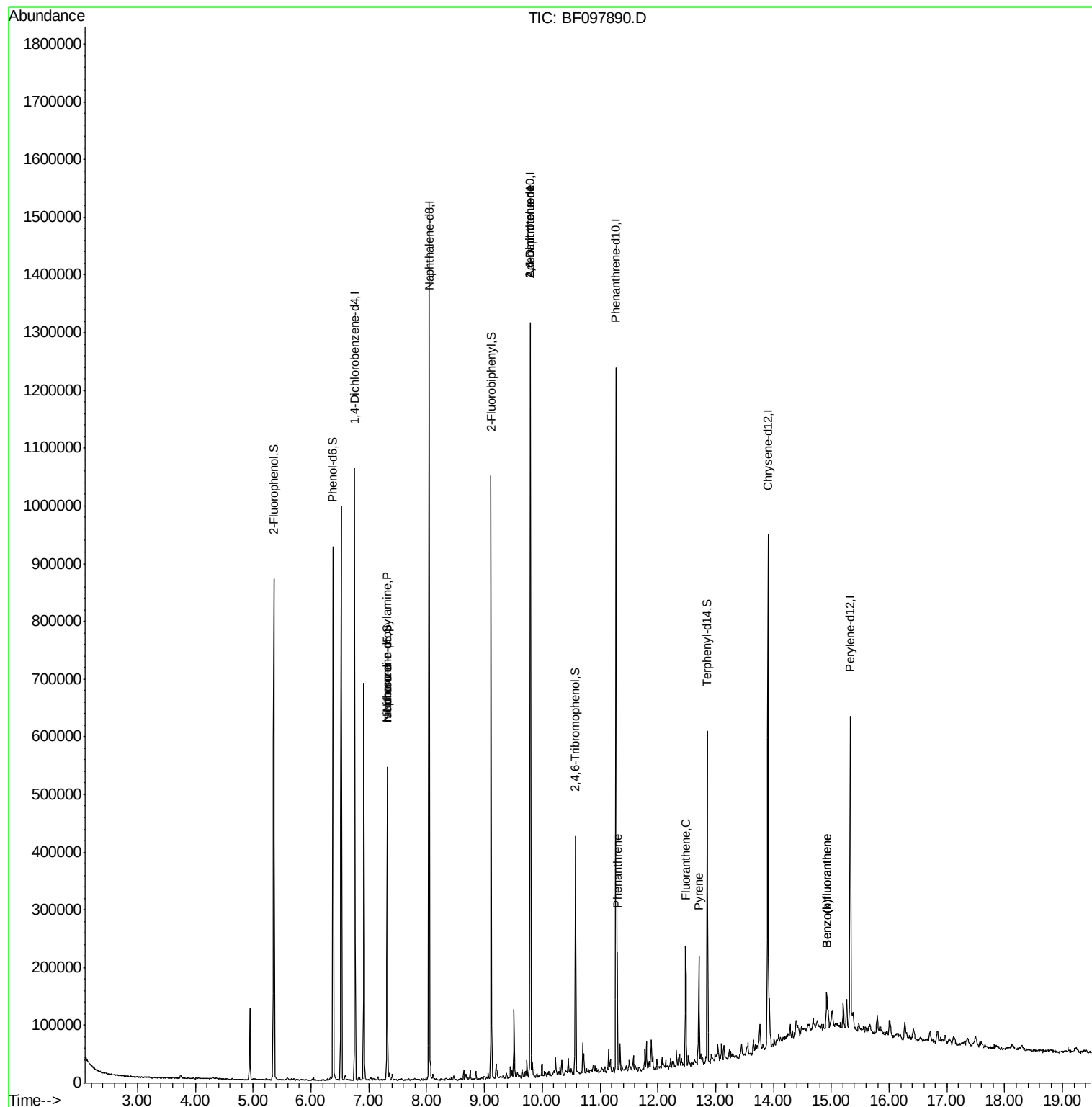
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.76  | 152  | 153009   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.05  | 136  | 604889   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.79  | 164  | 249850   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.27 | 188  | 396023   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12               | 13.90 | 240  | 269885   | 20.00 | ng    | -0.04    |
| 86) Perylene-d12               | 15.33 | 264  | 248040   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.36  | 112  | 213467   | 21.22 | ng    | -0.03    |
| 7) Phenol-d6                   | 6.38  | 99   | 292292   | 21.39 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.32  | 82   | 183228   | 16.46 | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol       | 10.57 | 330  | 34960    | 16.13 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl           | 9.12  | 172  | 266600   | 15.68 | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.86 | 244  | 144551   | 11.17 | ng    | -0.04    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.32  | 70   | 24426    | 2.61  | ng    | # 75     |
| 25) Isophorone                 | 7.32  | 82   | 180627   | 7.80  | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.79  | 165  | 31797    | 8.72  | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.79  | 165  | 31797    | 6.95  | ng    | # 33     |
| 70) Phenanthrene               | 11.30 | 178  | 61411    | 2.91  | ng    | 97       |
| 74) Fluoranthene               | 12.48 | 202  | 73915    | 3.36  | ng    | 97       |
| 77) Pyrene                     | 12.71 | 202  | 68530    | 3.10  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 14.92 | 252  | 43862    | 2.81  | ng    | 95       |
| 88) Benzo(k)fluoranthene       | 14.92 | 252  | 43862    | 2.99  | ng    | 96       |

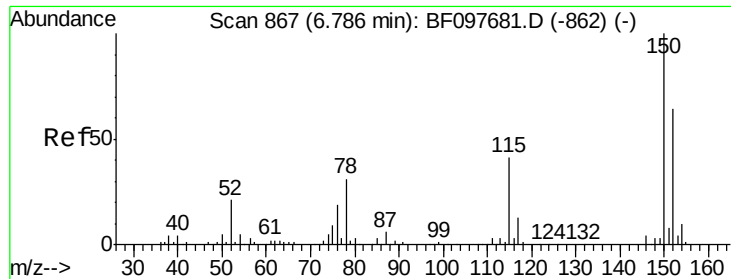
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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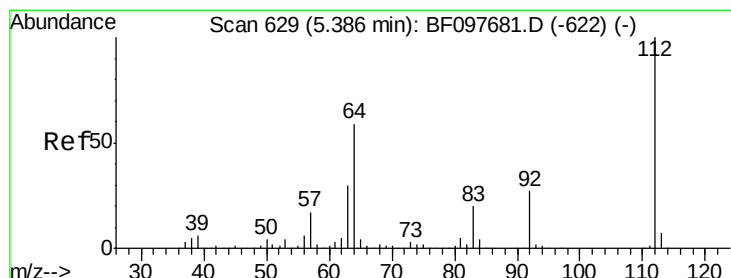
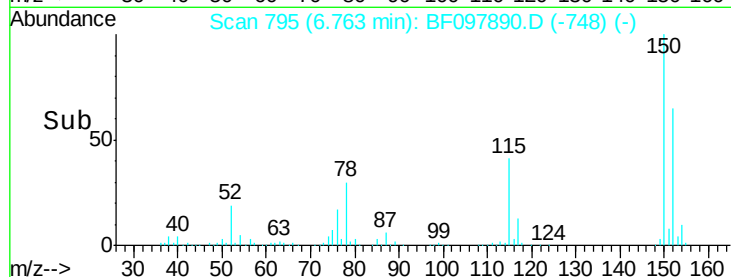
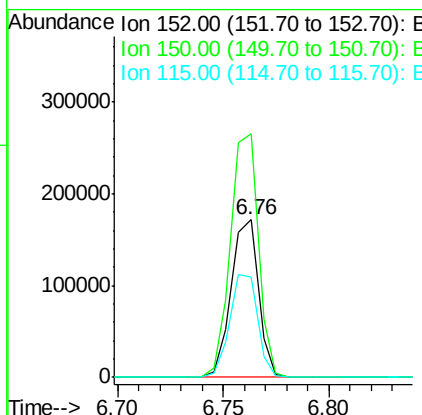
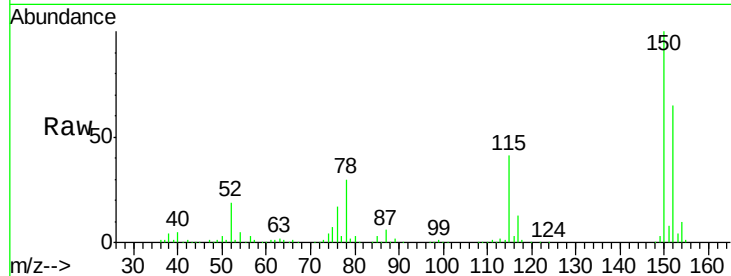


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.76 min Scan# 795  
Delta R.T. -0.02 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

Instrument :  
BNA\_F  
ClientSampleId :  
PVSC-A-COMP

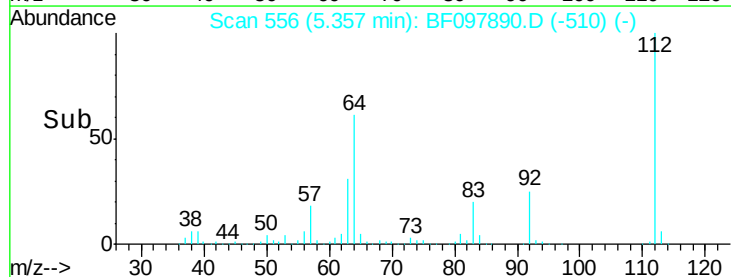
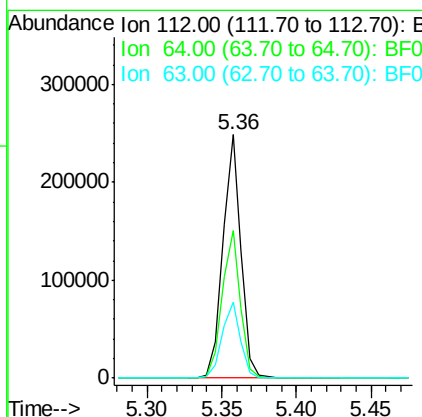
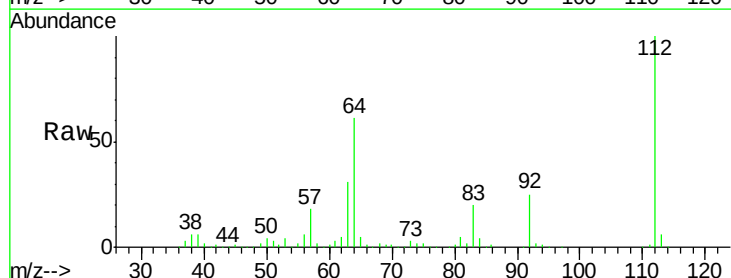
Tot Ion:152 Resp: 153009  
Ion Ratio Lower Upper  
152 100  
150 154.6 126.2 189.2  
115 63.9 52.2 78.2

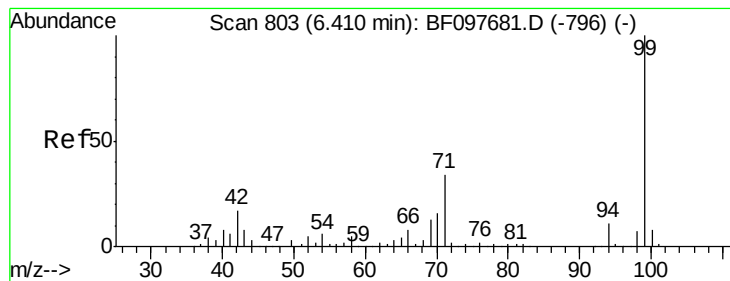


#5

2-Fluorophenol  
Concen: 21.22 ng  
RT: 5.36 min Scan# 556  
Delta R.T. -0.03 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

Tgt Ion:112 Resp: 213467  
Ion Ratio Lower Upper  
112 100  
64 60.6 46.0 69.0  
63 31.2 23.4 35.0





#7

Phenol-d6

Concen: 21.39 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.03 min

Lab File: BF097890.D

Acq: 19 Aug 2017 20:32

Instrument :

BNA\_F

ClientSampleId :

PVSC-A-COMP

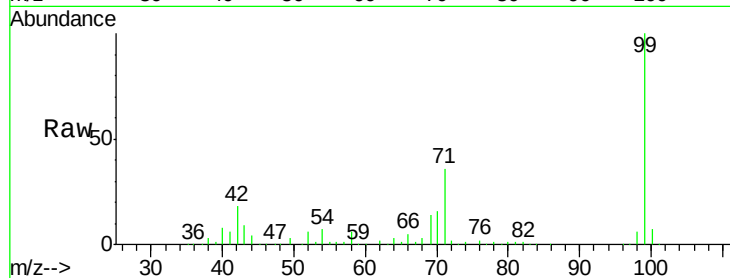
Tot Ion: 99 Resp: 292292

Ion Ratio Lower Upper

99 100

42 18.1 13.5 20.3

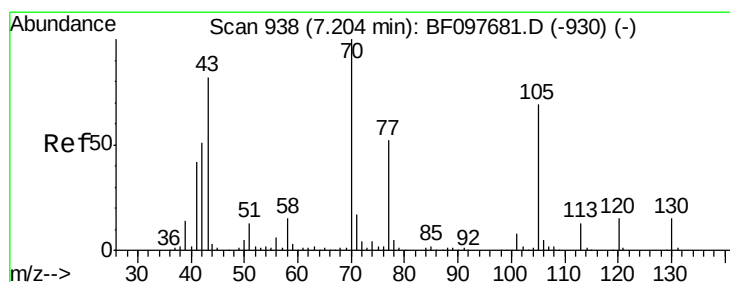
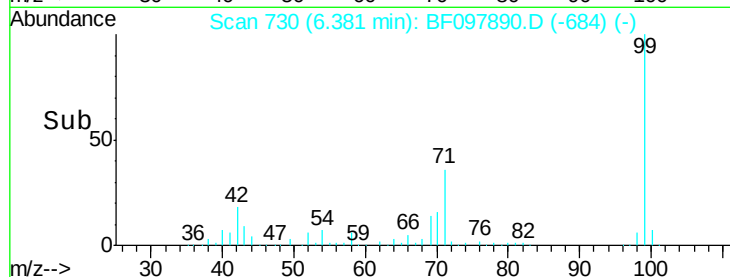
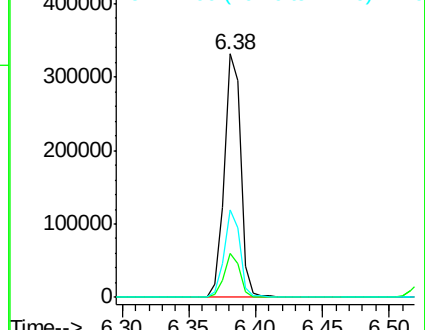
71 35.9 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 2.61 ng

RT: 7.32 min Scan# 889

Delta R.T. 0.11 min

Lab File: BF097890.D

Acq: 19 Aug 2017 20:32

Tgt Ion: 70 Resp: 24426

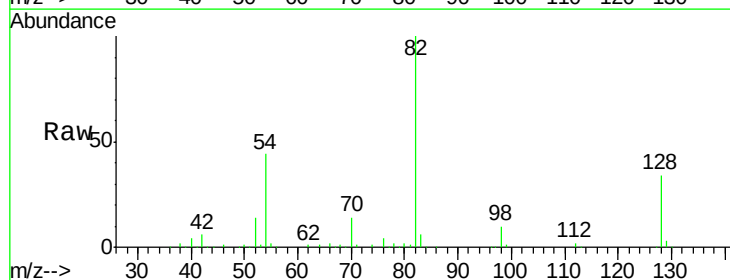
Ion Ratio Lower Upper

70 100

42 43.9 47.2 70.8#

101 0.0 7.2 10.8#

130 1.7 15.9 23.9#

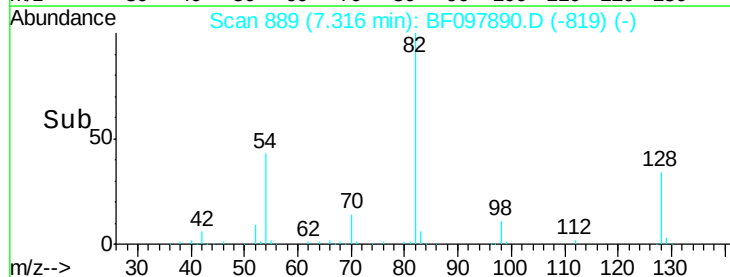
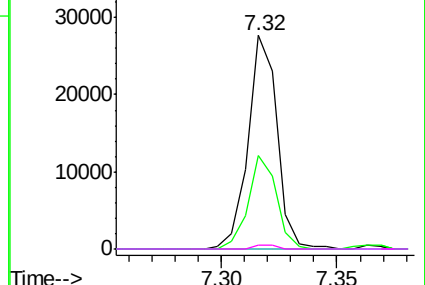


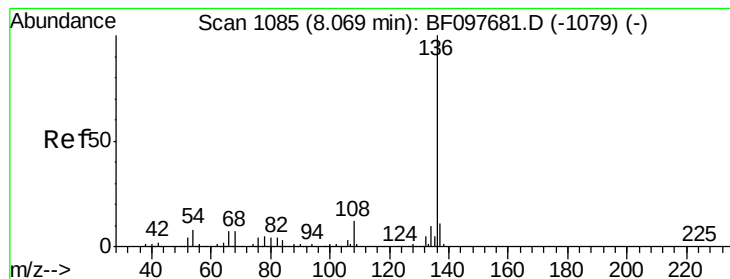
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 1013

Delta R.T. -0.02 min

Lab File: BF097890.D

Acq: 19 Aug 2017 20:32

Instrument :

BNA\_F

ClientSampleId :

PVSC-A-COMP

Tot Ion:136 Resp: 604889

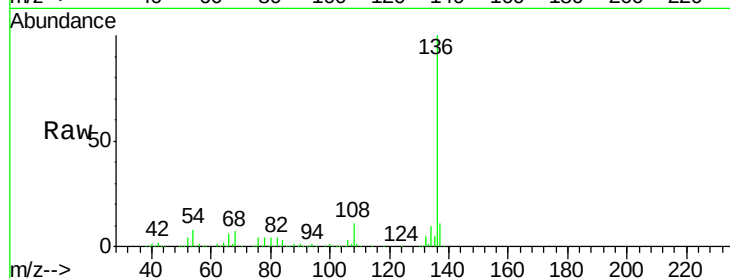
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.5 4.9 7.3#

68 6.9 4.1 6.1#

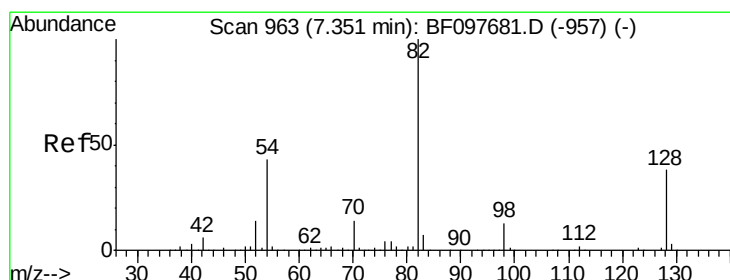
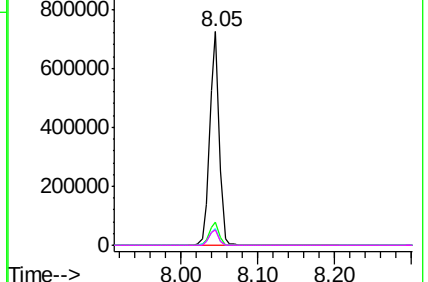
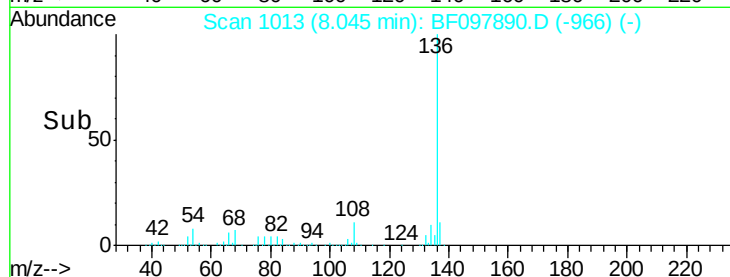


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 16.46 ng

RT: 7.32 min Scan# 889

Delta R.T. -0.04 min

Lab File: BF097890.D

Acq: 19 Aug 2017 20:32

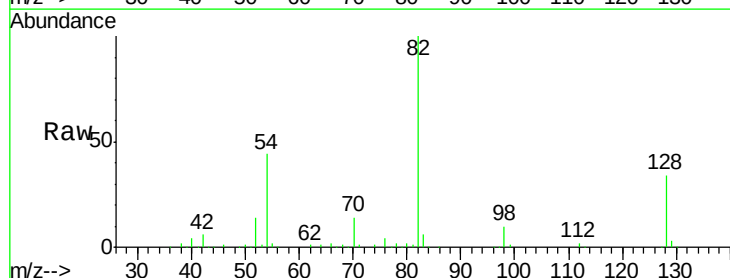
Tgt Ion: 82 Resp: 183228

Ion Ratio Lower Upper

82 100

128 33.6 34.0 51.0#

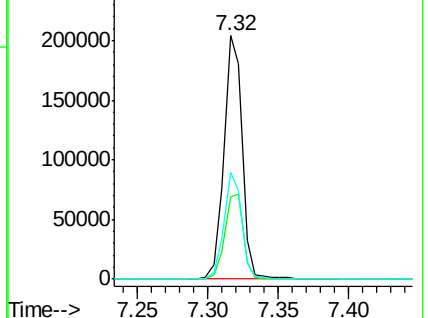
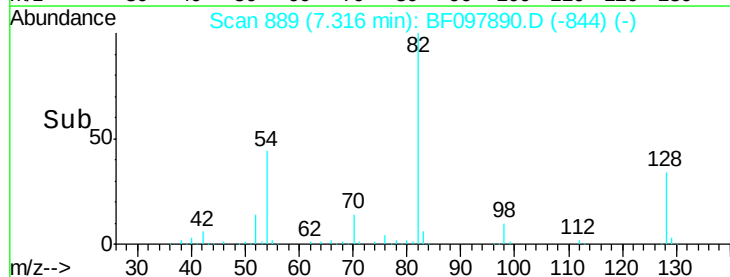
54 43.9 42.2 63.2

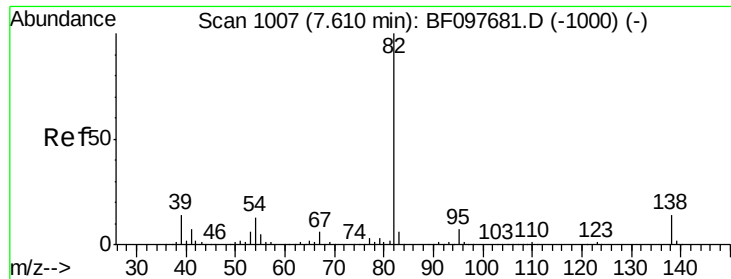


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

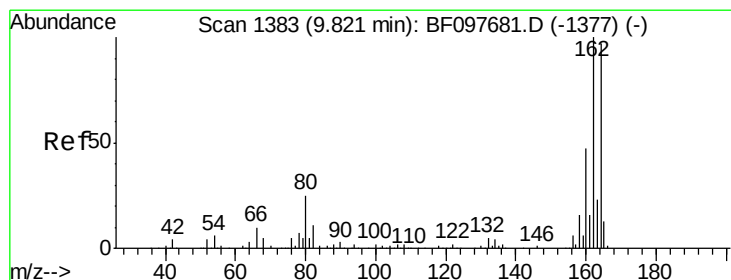
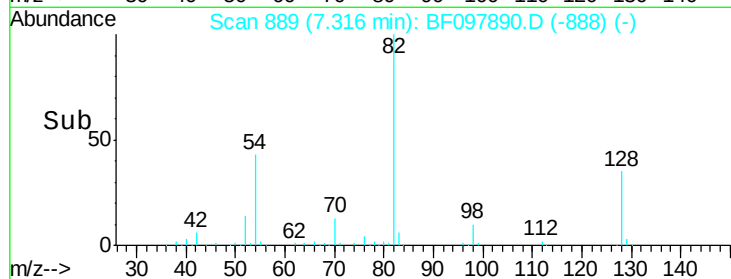
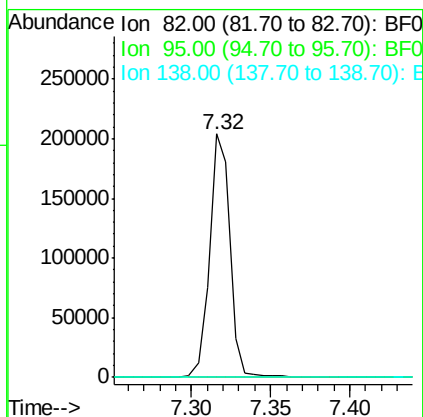
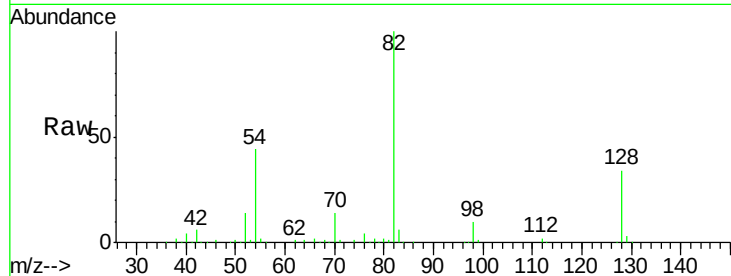




#25  
Isophorone  
Concen: 7.80 ng  
RT: 7.32 min Scan# 889  
Delta R.T. -0.29 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

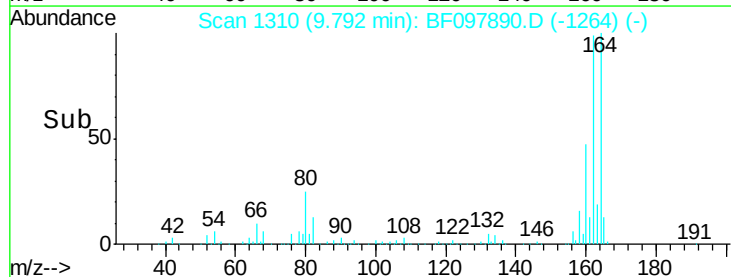
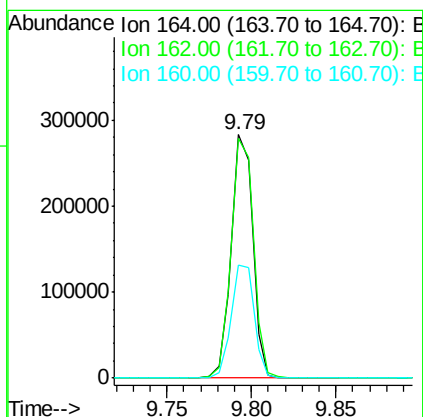
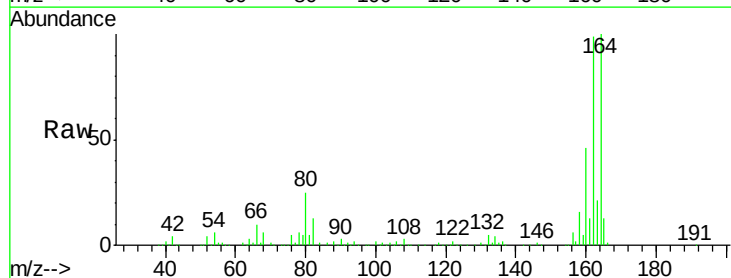
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PVSC-A-COMP

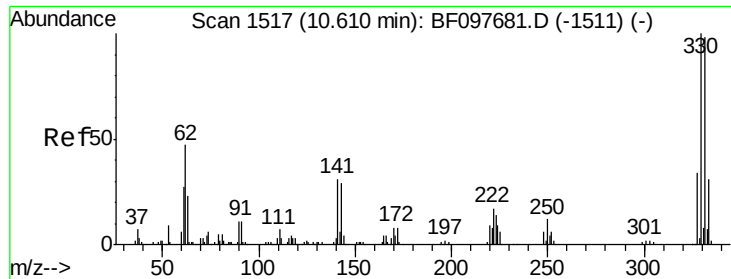
Tot Ion: 82 Resp: 180627  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.3 7.9#  
138 0.0 13.1 19.7#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.79 min Scan# 1310  
Delta R.T. -0.03 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

Tgt Ion:164 Resp: 249850  
Ion Ratio Lower Upper  
164 100  
162 98.7 82.6 123.8  
160 46.5 36.2 54.2

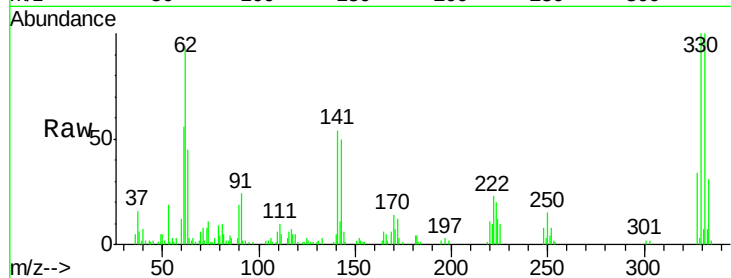




#41  
 2,4,6-Tribromophenol  
 Concen: 16.13 ng  
 RT: 10.57 min Scan# 1443  
 Delta R.T. -0.04 min  
 Lab File: BF097890.D  
 Acq: 19 Aug 2017 20:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PVSC-A-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 99.4  | 76.6  | 115.0 |
| 141     | 48.2  | 31.4  | 47.2# |

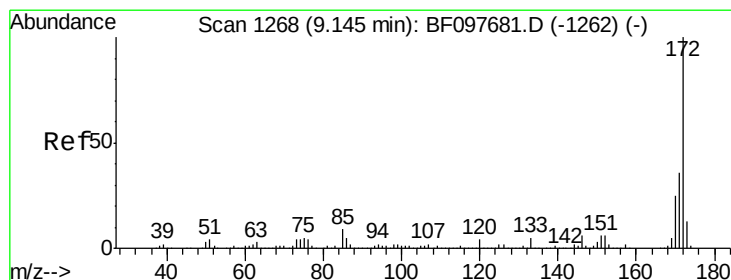
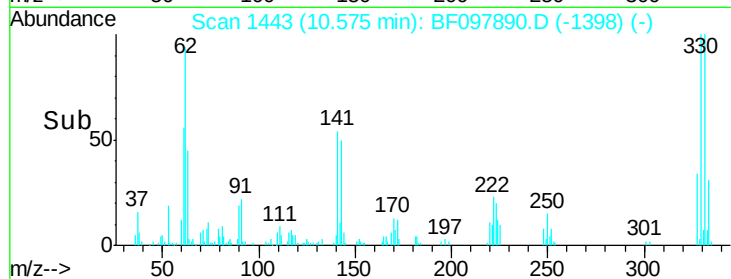
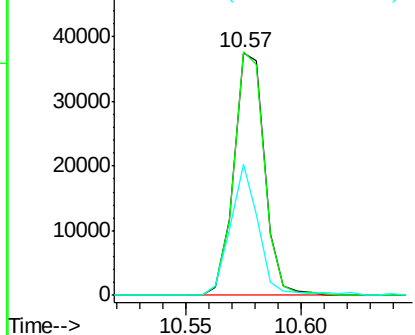


Abundance

Ion 329.80 (329.50 to 330.50): E

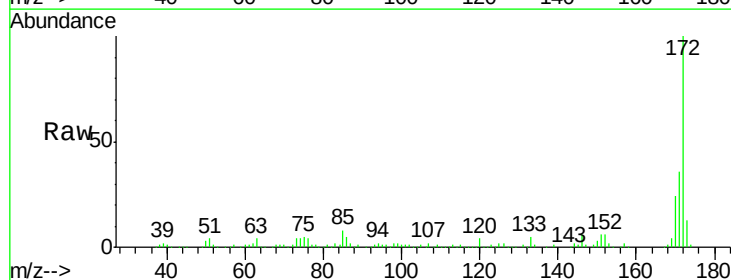
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 15.68 ng  
 RT: 9.12 min Scan# 1195  
 Delta R.T. -0.03 min  
 Lab File: BF097890.D  
 Acq: 19 Aug 2017 20:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.6  | 44.4  |
| 170     | 24.5  | 19.8  | 29.8  |

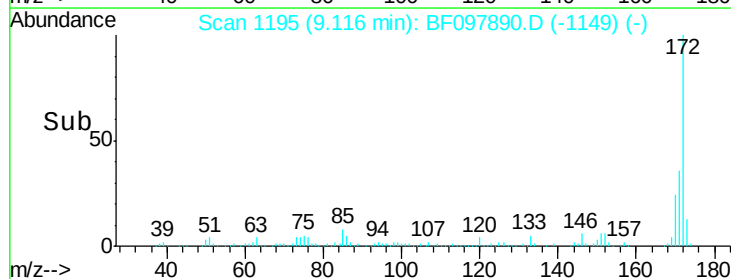
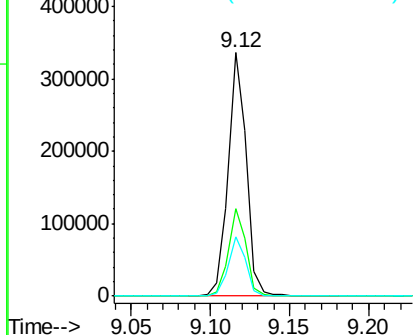


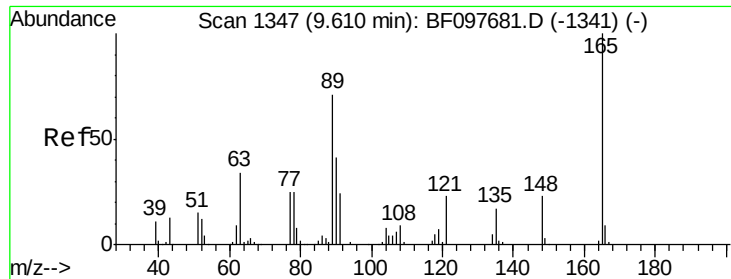
Abundance

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

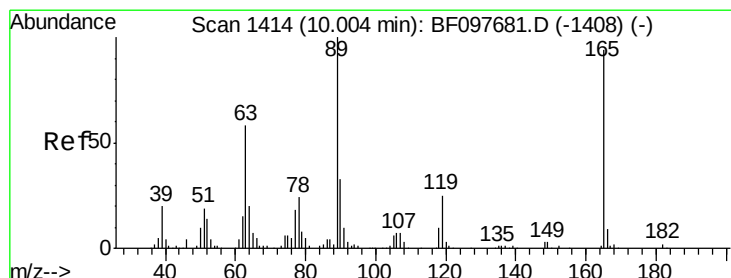
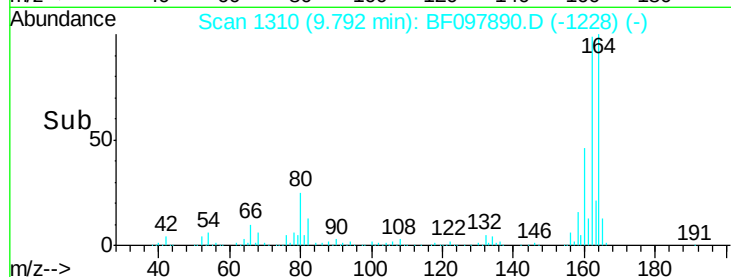
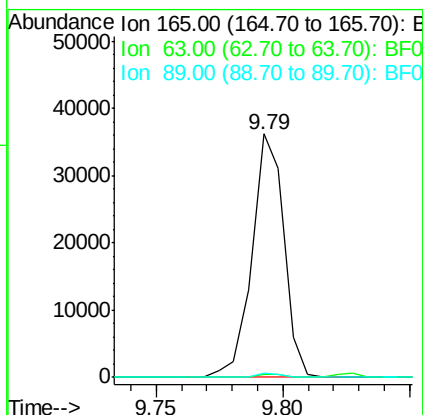
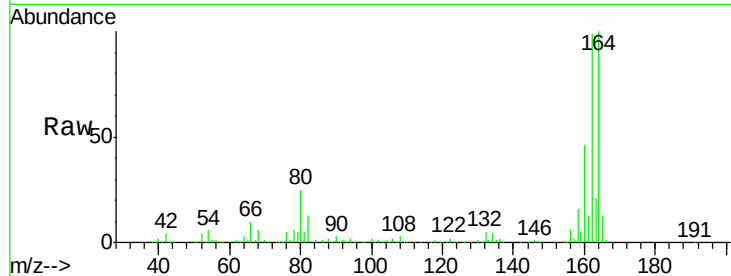




#50  
 2,6-Dinitrotoluene  
 Concen: 8.72 ng  
 RT: 9.79 min Scan# 1310  
 Delta R.T. 0.18 min  
 Lab File: BF097890.D  
 Acq: 19 Aug 2017 20:32

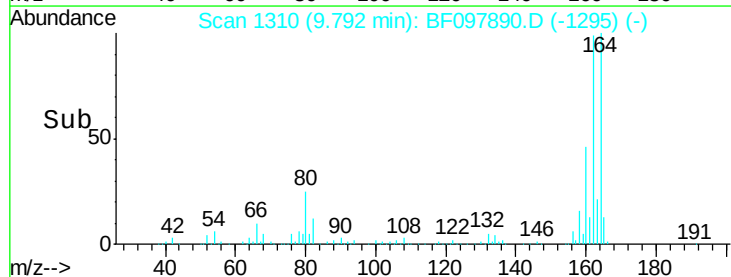
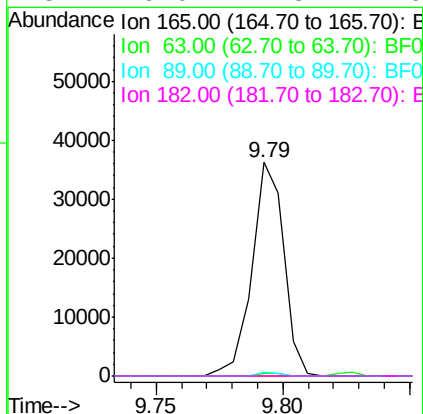
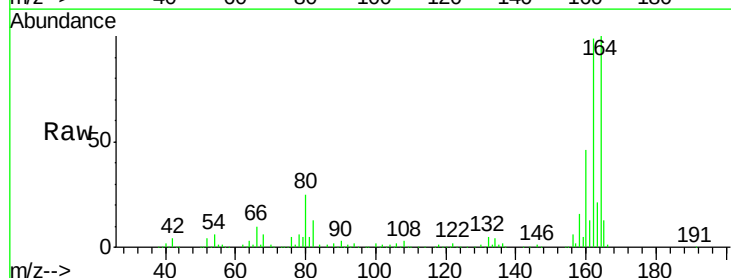
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PVSC-A-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 34.3  | 51.5# |
| 89      | 1.6   | 37.1  | 55.7# |

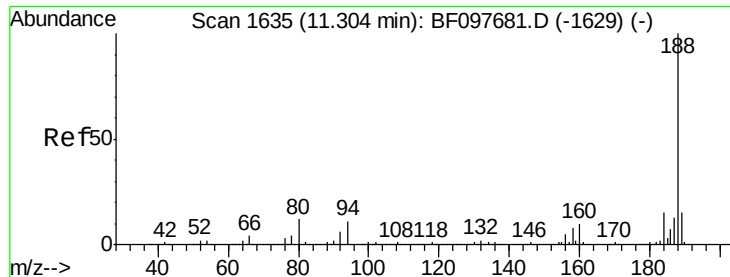


#56  
 2,4-Dinitrotoluene  
 Concen: 6.95 ng  
 RT: 9.79 min Scan# 1310  
 Delta R.T. -0.21 min  
 Lab File: BF097890.D  
 Acq: 19 Aug 2017 20:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 25.4  | 38.0# |
| 89      | 1.6   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |



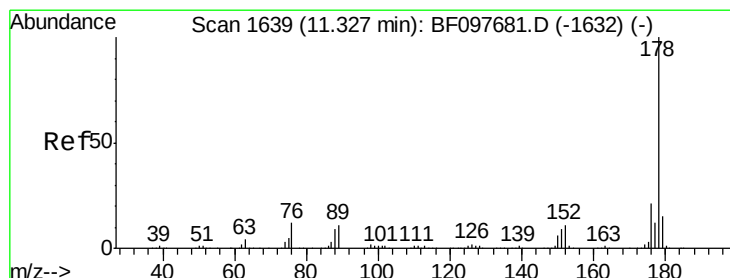
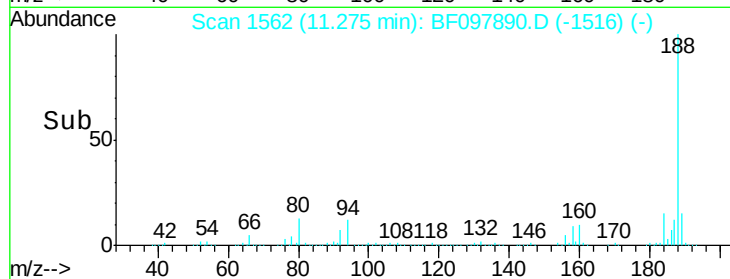
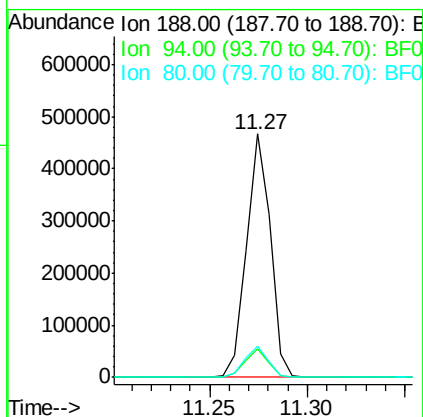
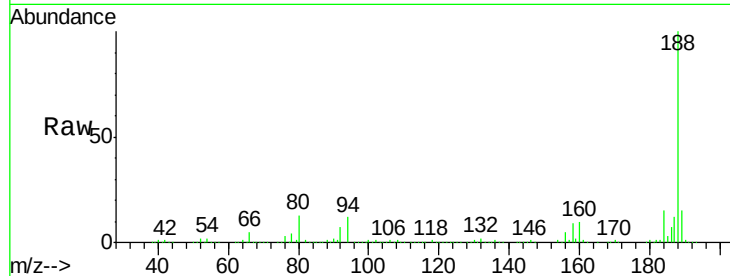




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.27 min Scan# 1562  
Delta R.T. -0.03 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

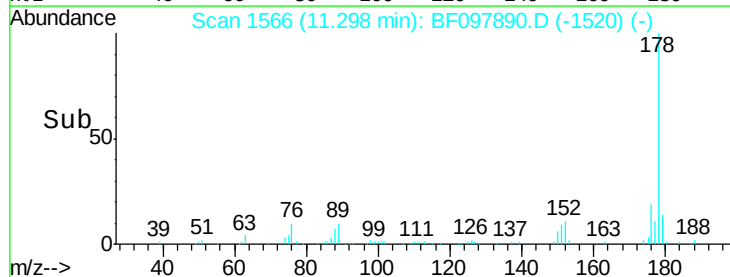
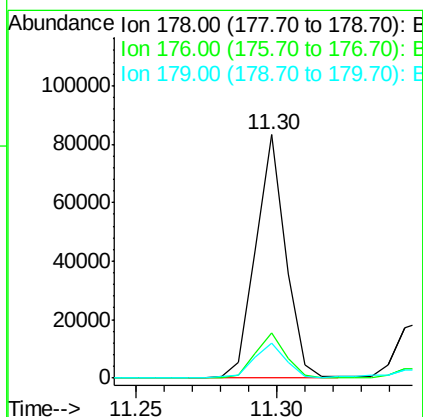
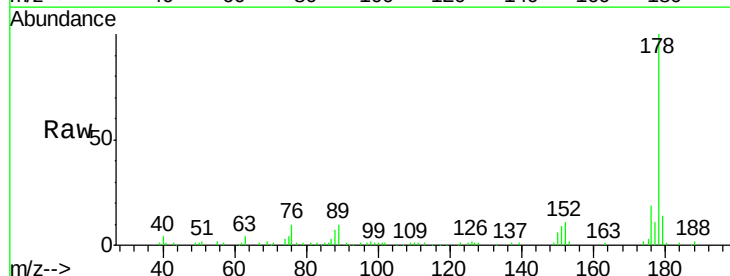
Instrument :  
BNA\_F  
ClientSampleId :  
PVSC-A-COMP

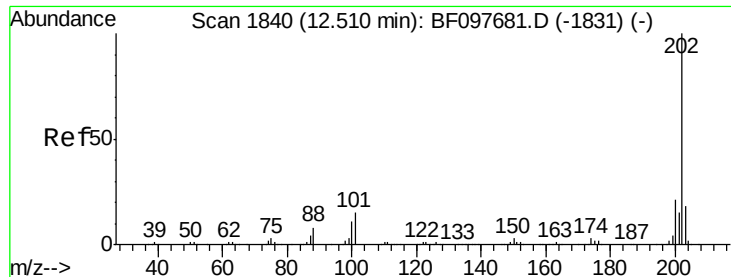
Tot Ion:188 Resp: 396023  
Ion Ratio Lower Upper  
188 100  
94 12.0 9.4 14.2  
80 12.7 10.2 15.2



#70  
Phenanthrene  
Concen: 2.91 ng  
RT: 11.30 min Scan# 1566  
Delta R.T. -0.03 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

Tgt Ion:178 Resp: 61411  
Ion Ratio Lower Upper  
178 100  
176 18.7 16.2 24.4  
179 14.5 12.6 19.0

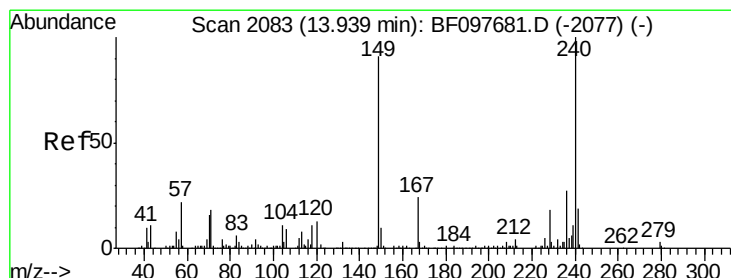
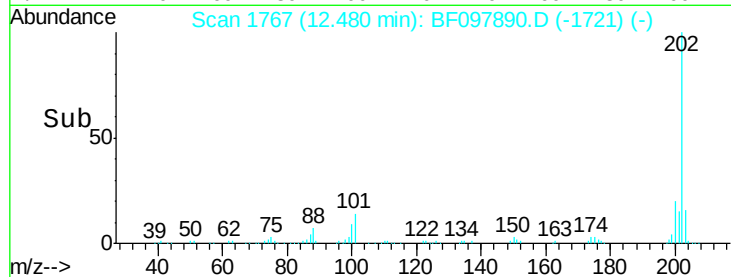
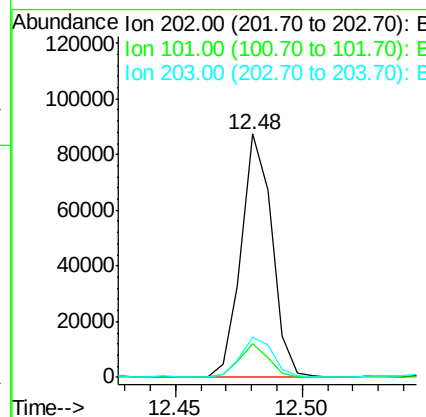
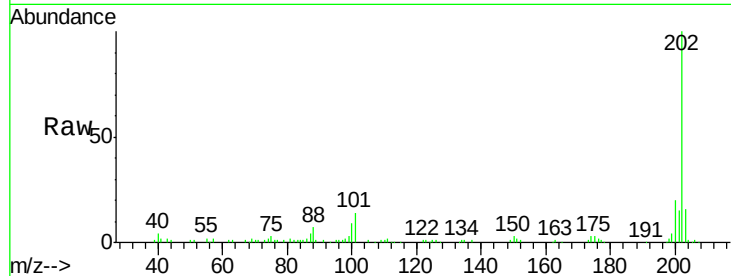




#74  
Fluoranthene  
Concen: 3.36 ng  
RT: 12.48 min Scan# 1767  
Delta R.T. -0.03 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

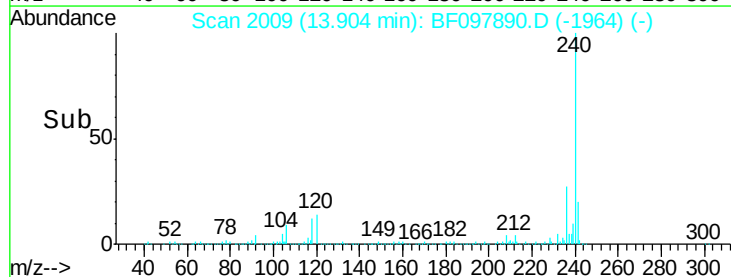
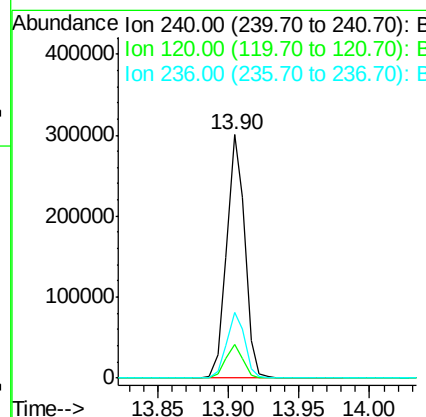
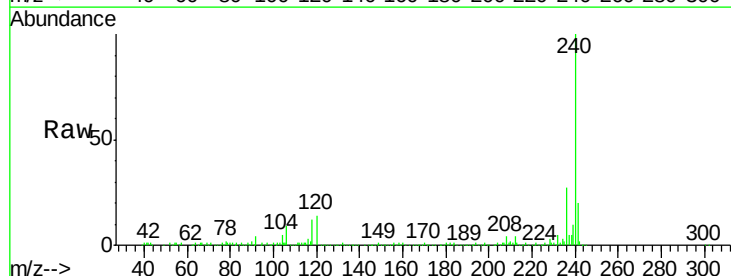
Instrument :  
BNA\_F  
ClientSampleId :  
PVSC-A-COMP

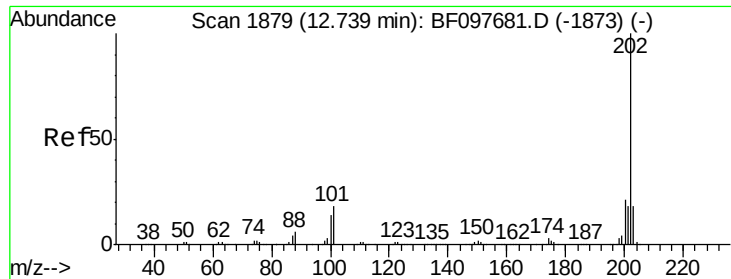
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.9  | 0.0   | 33.2  |
| 203     | 16.3  | 0.0   | 38.1  |



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.90 min Scan# 2009  
Delta R.T. -0.04 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.6  | 5.8   | 8.8#  |
| 236     | 26.9  | 20.5  | 30.7  |

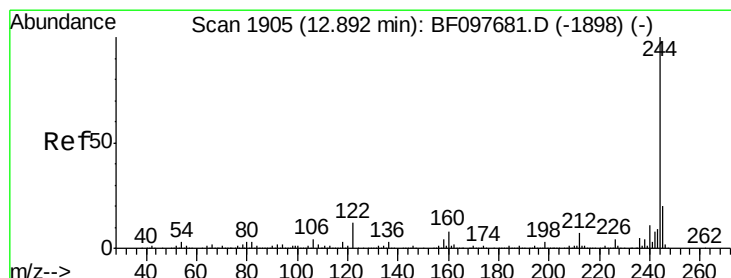
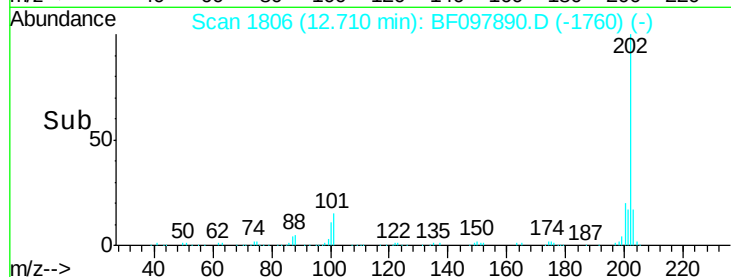
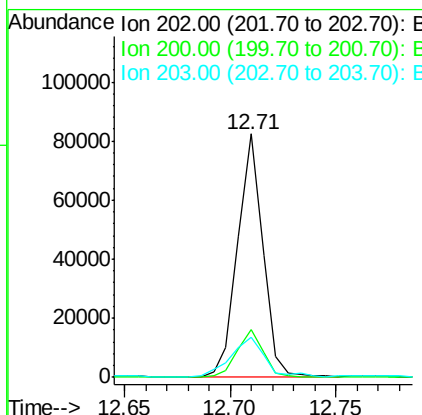
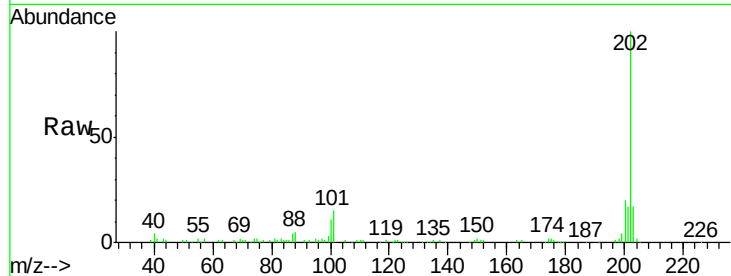




#77  
Pvrene  
Concen: 3.10 ng  
RT: 12.71 min Scan# 1806  
Delta R.T. -0.03 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

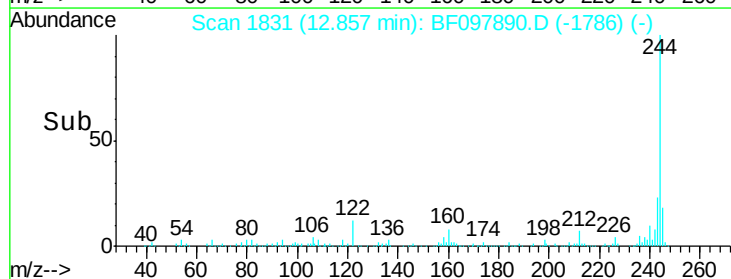
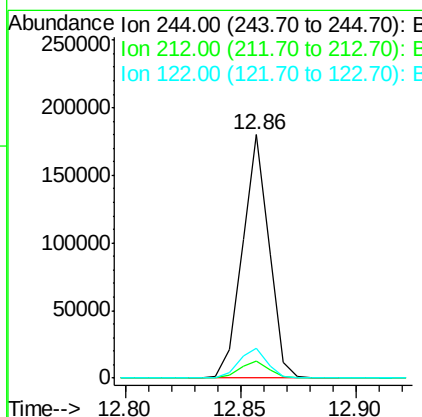
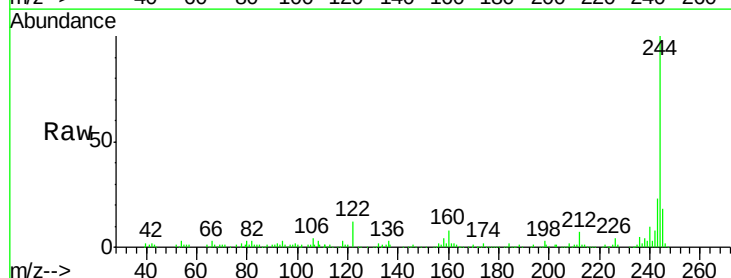
Instrument :  
BNA\_F  
ClientSampleId :  
PVSC-A-COMP

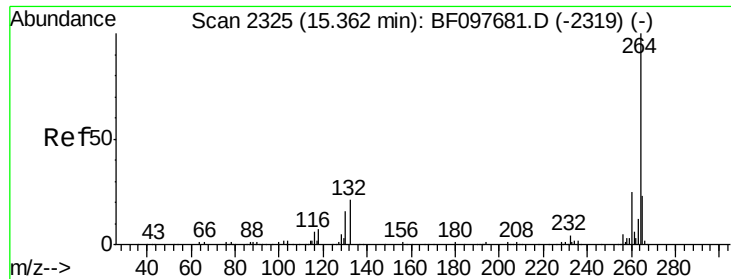
Tot Ion:202 Resp: 68530  
Ion Ratio Lower Upper  
202 100  
200 19.6 17.6 26.4  
203 16.7 14.4 21.6



#78  
Terphenyl-d14  
Concen: 11.17 ng  
RT: 12.86 min Scan# 1831  
Delta R.T. -0.04 min  
Lab File: BF097890.D  
Acq: 19 Aug 2017 20:32

Tgt Ion:244 Resp: 144551  
Ion Ratio Lower Upper  
244 100  
212 7.2 6.0 9.0  
122 12.3 10.3 15.5





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.33 min Scan# 2252

Delta R.T. -0.03 min

Lab File: BF097890.D

Acq: 19 Aug 2017 20:32

Instrument :

BNA\_F

ClientSampleId :

PVSC-A-COMP

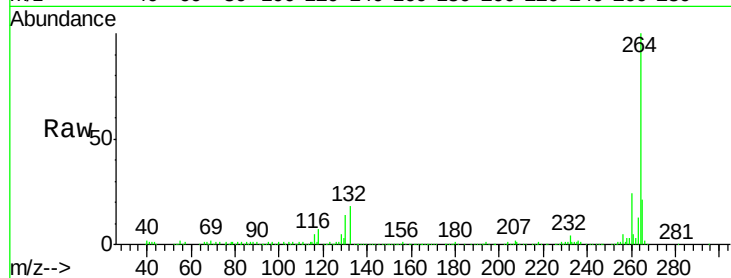
Tot Ion:264 Resp: 248040

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

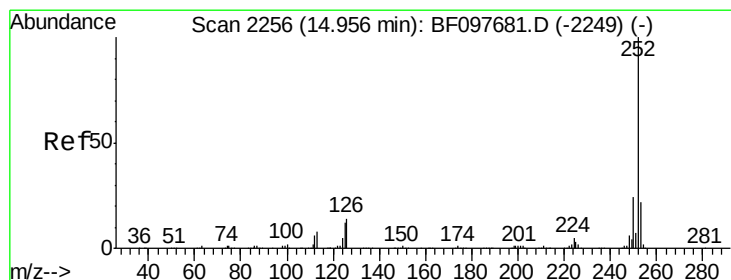
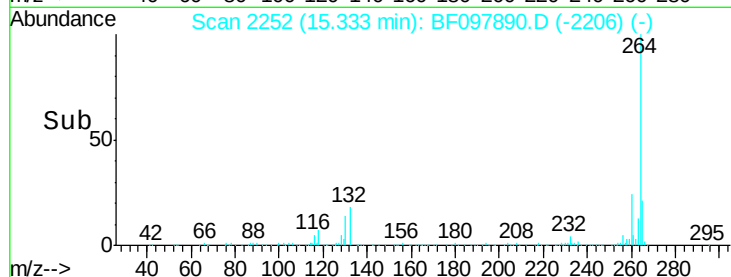
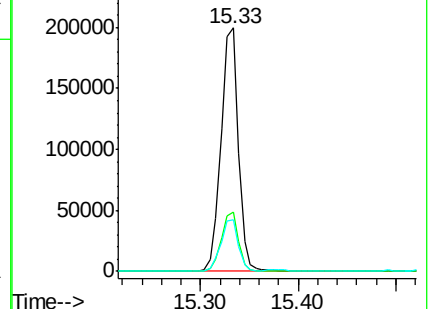
265 21.4 17.2 25.8



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



#87

Benzo(b)fluoranthene

Concen: 2.81 ng

RT: 14.92 min Scan# 2182

Delta R.T. -0.04 min

Lab File: BF097890.D

Acq: 19 Aug 2017 20:32

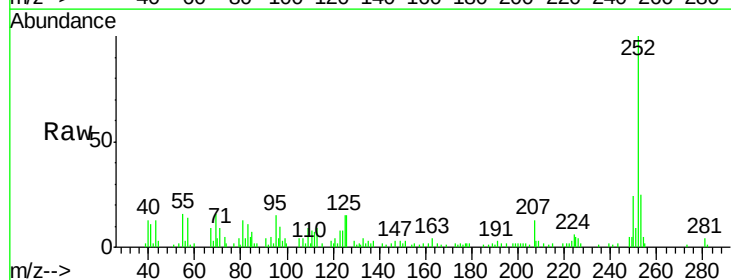
Tgt Ion:252 Resp: 43862

Ion Ratio Lower Upper

252 100

253 24.6 18.1 27.1

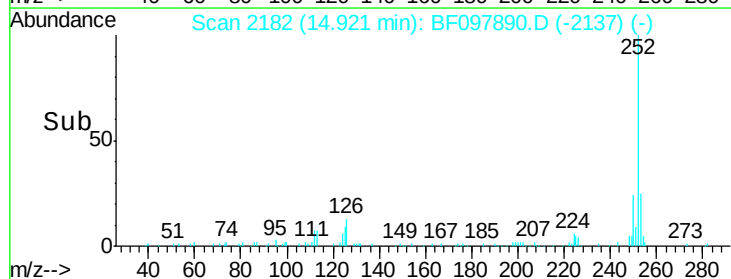
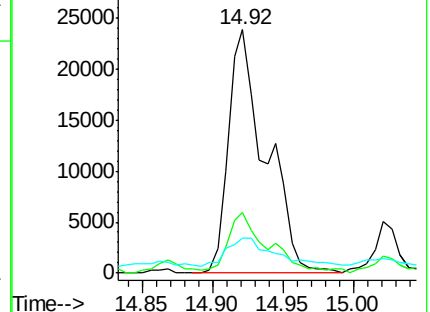
125 14.5 9.8 14.8

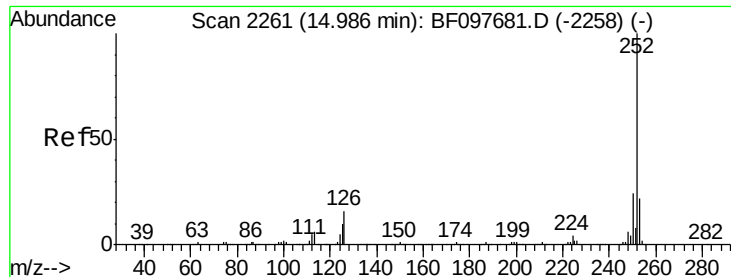


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88  
 Benzo(k)fluoranthene  
 Concen: 2.99 ng  
 RT: 14.92 min Scan# 2182  
 Delta R.T. -0.06 min  
 Lab File: BF097890.D  
 Acq: 19 Aug 2017 20:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PVSC-A-COMP

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:252 | Resp: | 43862     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 24.6  | 18.4 27.6 |
| 125         | 14.5  | 13.1 19.7 |

