

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080123\  
 Data File : BF134564.D  
 Acq On : 01 Aug 2023 23:37  
 Operator : CG\JU  
 Sample : 03770-10RE  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

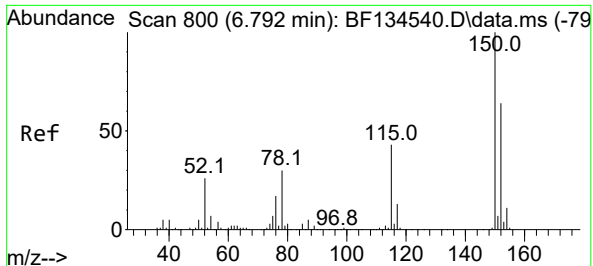
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HOWE-2-LP

Quant Time: Aug 02 02:47:13 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF080123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 02 02:20:34 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.793  | 152  | 221179   | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.069  | 136  | 842104   | 20.000    | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.822  | 164  | 380623   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.310 | 188  | 592394   | 20.000    | ng    | # 0.00   |
| 76) Chrysene-d12              | 13.957 | 240  | 426892   | 20.000    | ng    | # 0.00   |
| 86) Perylene-d12              | 15.421 | 264  | 337949   | 20.000    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.416  | 112  | 1001114  | 68.804    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.422  | 99   | 1266523  | 68.094    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.351  | 82   | 717569   | 53.251    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.610 | 330  | 240119   | 61.885    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.151  | 172  | 1240556  | 54.192    | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.904 | 244  | 1125957  | 46.497    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.322  | 77   | 560      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propyla... | 7.351  | 70   | 99635    | 8.947     | ng    | # 76     |
| 25) Isophorone                | 7.351  | 82   | 716159   | 24.367    | ng    | # 65     |
| 26) 2-Nitrophenol             | 7.692  | 139  | 755      | 4.902     | ng    | # 1      |
| 32) Benzoic acid              | 7.822  | 122  | 332      | 7.900     | ng    | # 43     |
| 48) 2-Nitroaniline            | 9.381  | 65   | 1500     | 3.369     | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.734  | 165  | 2694     | 2.976     | ng    | # 39     |
| 54) 2,4-Dinitrophenol         | 9.816  | 184  | 69       | 6.824     | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 10.063 | 165  | 2036     | 3.149     | ng    | # 64     |
| 65) 4,6-Dinitro-2-methylph... | 10.398 | 198  | 231      | 8.778     | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.610 | 248  | 15425    | 2.379     | ng    | # 1      |
| 75) Fluoranthene              | 12.522 | 202  | 92392    | 2.780     | ng    | 95       |
| 78) Pyrene                    | 12.751 | 202  | 86762    | 2.349     | ng    | 94       |
| 88) Benzo(b)fluoranthene      | 14.992 | 252  | 48046    | 2.331     | ng    | # 44     |
| 89) Benzo(k)fluoranthene      | 14.992 | 252  | 48046    | 2.340     | ng    | # 46     |
| -----                         |        |      |          |           |       |          |

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

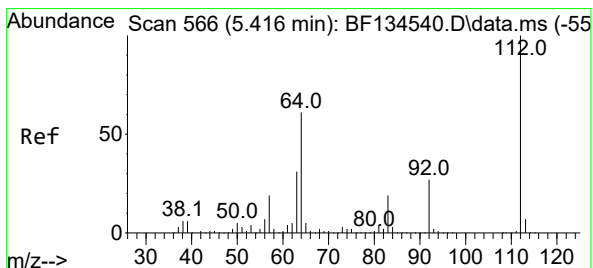
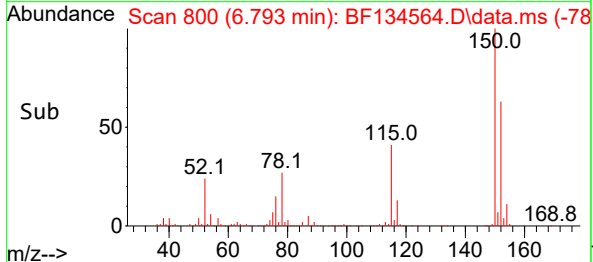
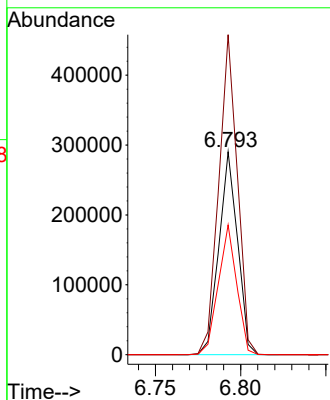
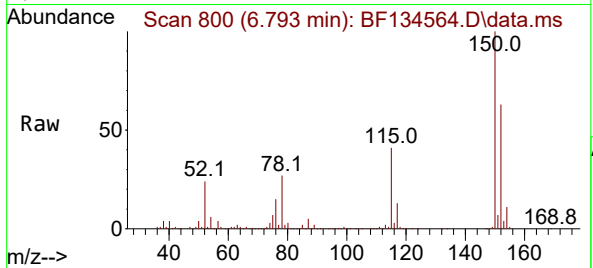




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.793 min Scan# 800  
Delta R.T. 0.001 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

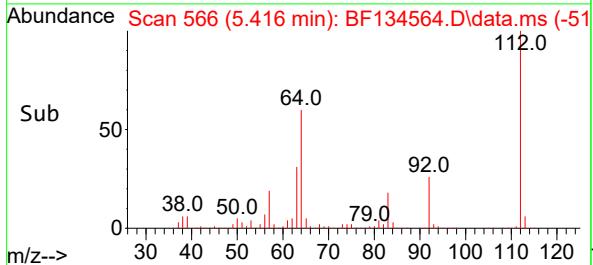
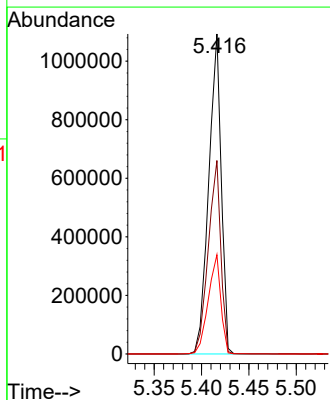
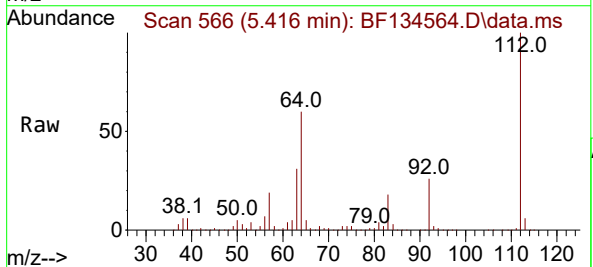
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BNA\_F  
ClientSampleId :  
HOWE-2-LP

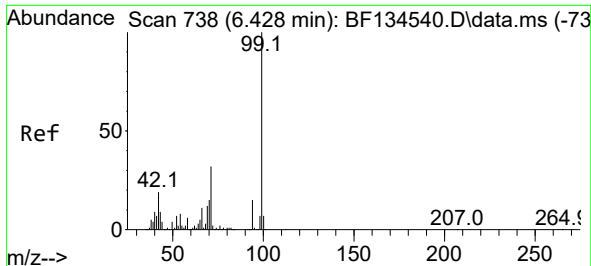
Tgt Ion:152 Resp: 221179  
Ion Ratio Lower Upper  
152 100  
150 157.7 128.3 192.5  
115 64.0 52.4 78.6



#5  
2-Fluorophenol  
Concen: 68.804 ng  
RT: 5.416 min Scan# 566  
Delta R.T. 0.000 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion:112 Resp: 1001114  
Ion Ratio Lower Upper  
112 100  
64 60.5 44.9 67.3  
63 31.0 25.4 38.0

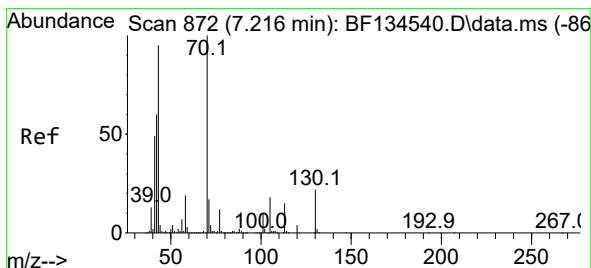
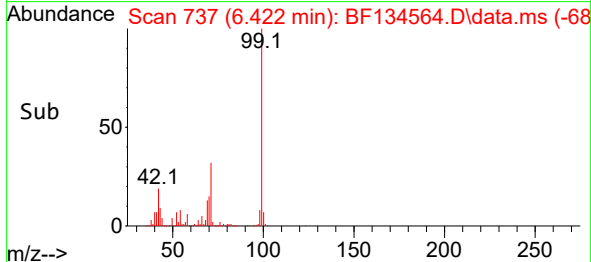
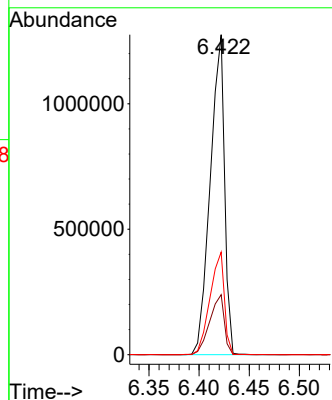
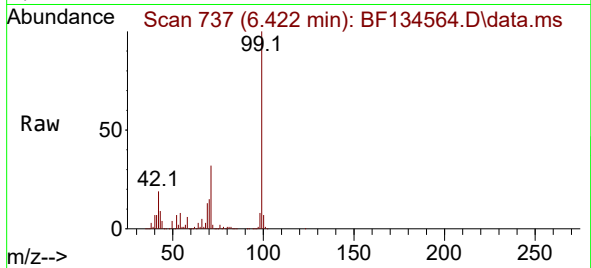




#7  
Phenol-d6  
Concen: 68.094 ng  
RT: 6.422 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

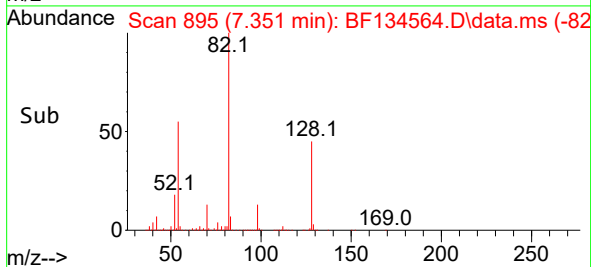
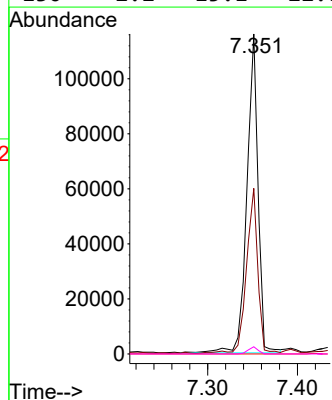
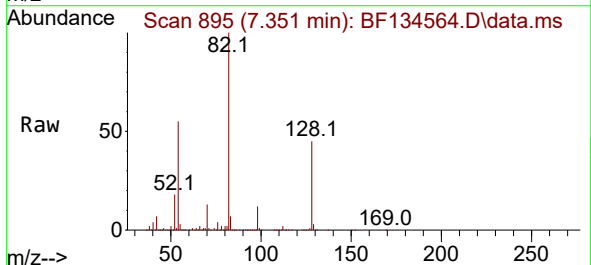
Instrument :  
BNA\_F  
ClientSampleId :  
HOWE-2-LP

Tgt Ion: 99 Resp: 1266523  
Ion Ratio Lower Upper  
99 100  
42 18.8 18.7 28.1  
71 32.1 36.4 54.6#



#19  
n-Nitroso-di-n-propylamine  
Concen: 8.947 ng  
RT: 7.351 min Scan# 895  
Delta R.T. 0.136 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion: 70 Resp: 99635  
Ion Ratio Lower Upper  
70 100  
42 51.8 54.7 82.1#  
101 0.0 8.2 12.2#  
130 2.2 15.1 22.7#

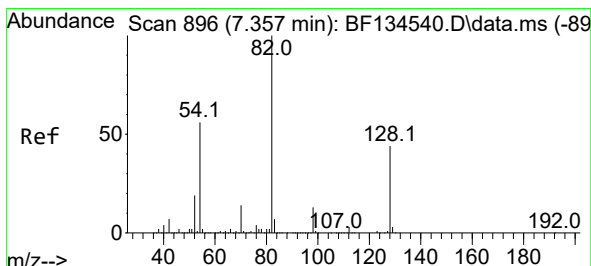
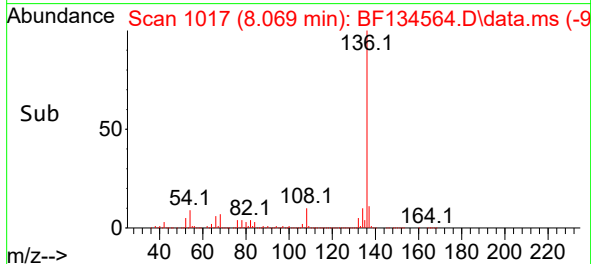
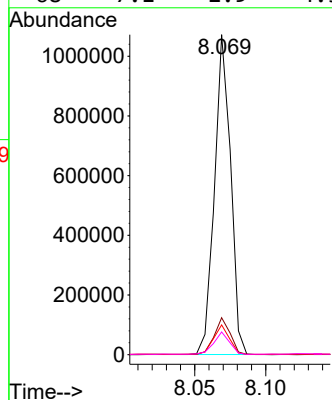
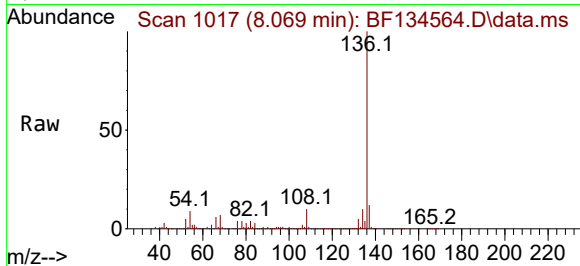




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.069 min Scan# 1017  
Delta R.T. -0.006 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

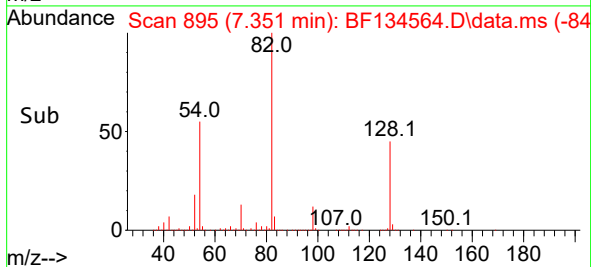
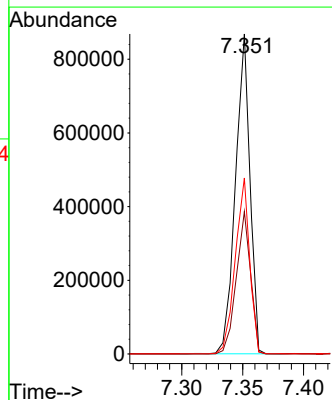
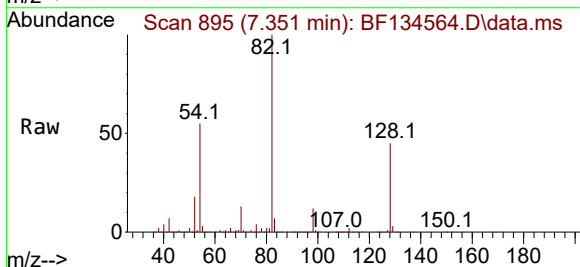
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ClientSampleId :  
HOWE-2-LP

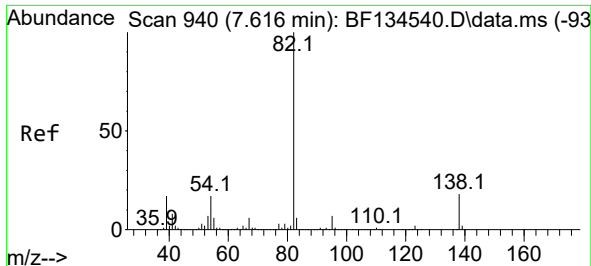
Tgt Ion:136 Resp: 842104  
Ion Ratio Lower Upper  
136 100  
137 11.6 8.4 12.6  
54 9.3 5.2 7.8#  
68 7.1 2.9 4.3#



#23  
Nitrobenzene-d5  
Concen: 53.251 ng  
RT: 7.351 min Scan# 895  
Delta R.T. -0.006 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion: 82 Resp: 717569  
Ion Ratio Lower Upper  
82 100  
128 44.5 34.3 51.5  
54 55.0 43.8 65.6

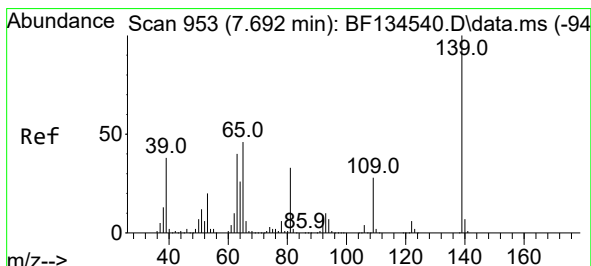
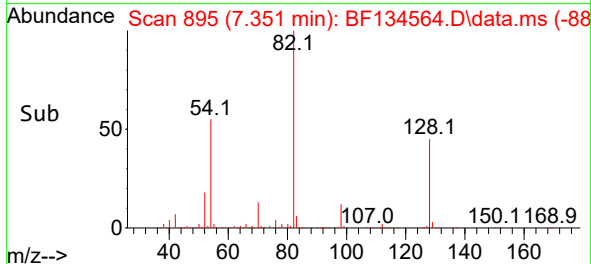
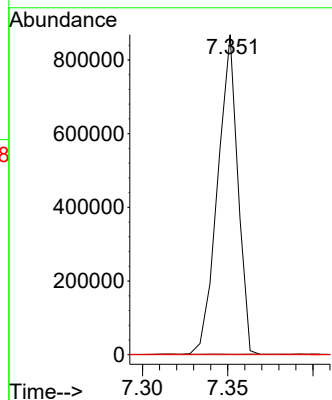
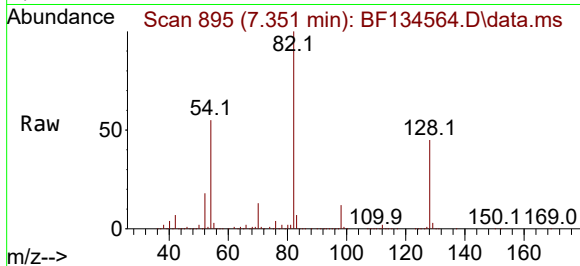




#25  
Isophorone  
Concen: 24.367 ng  
RT: 7.351 min Scan# 895  
Delta R.T. -0.264 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

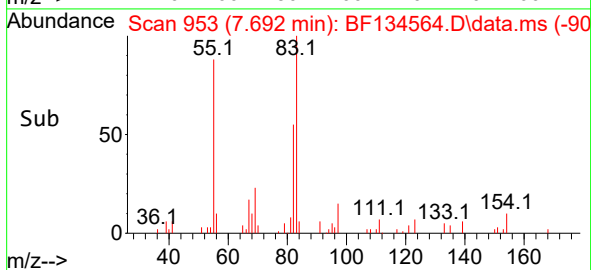
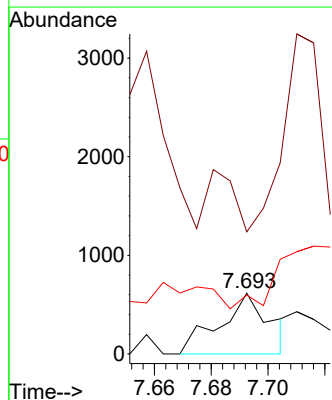
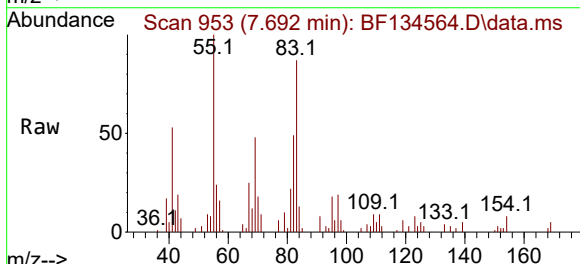
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ClientSampleId :  
HOWE-2-LP

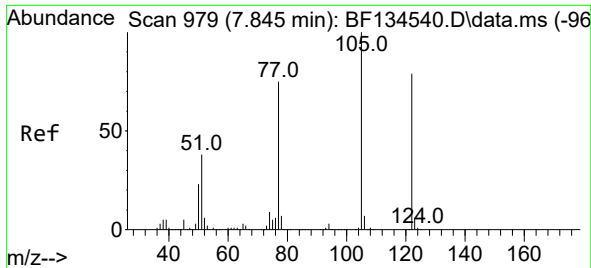
Tgt Ion: 82 Resp: 716159  
Ion Ratio Lower Upper  
82 100  
95 0.2 6.0 9.0#  
138 0.0 14.6 22.0#



#26  
2-Nitrophenol  
Concen: 4.902 ng  
RT: 7.692 min Scan# 953  
Delta R.T. 0.000 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion:139 Resp: 755  
Ion Ratio Lower Upper  
139 100  
109 200.8 29.8 44.6#  
65 96.9 45.4 68.2#

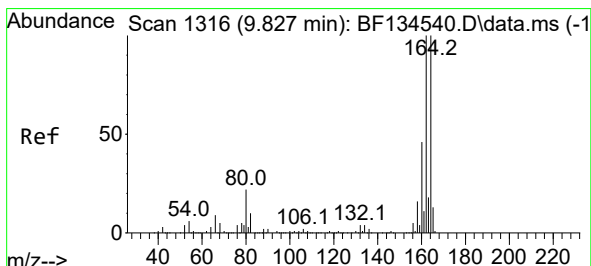
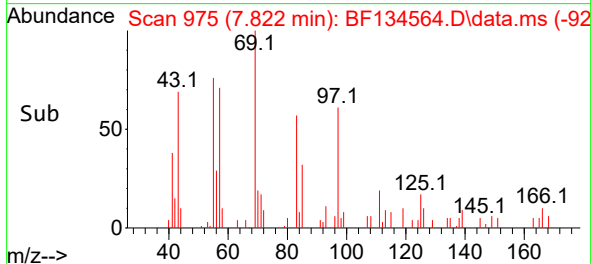
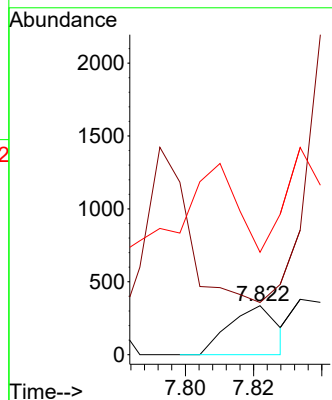
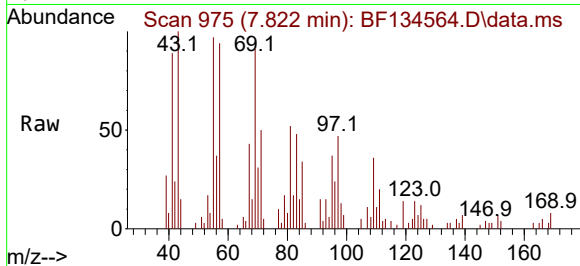




#32  
Benzoic acid  
Concen: 7.900 ng  
RT: 7.822 min Scan# 91  
Delta R.T. -0.023 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

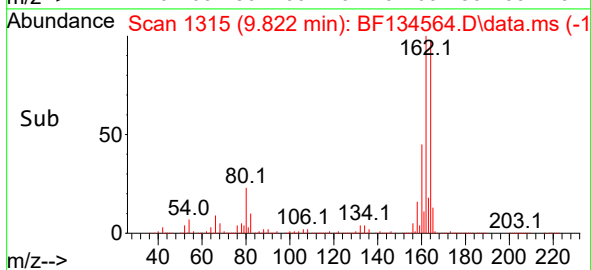
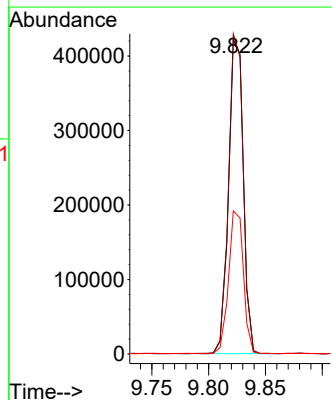
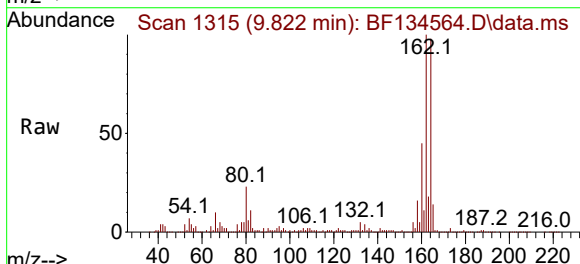
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BNA\_F  
ClientSampleId :  
HOWE-2-LP

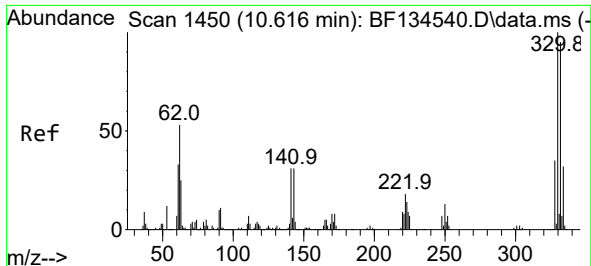
Tgt Ion:122 Resp: 332  
Ion Ratio Lower Upper  
122 100  
105 106.5 87.5 127.5  
77 208.9 71.4 111.4#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.822 min Scan# 1315  
Delta R.T. -0.006 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion:164 Resp: 380623  
Ion Ratio Lower Upper  
164 100  
162 101.7 82.6 123.8  
160 45.5 37.2 55.8

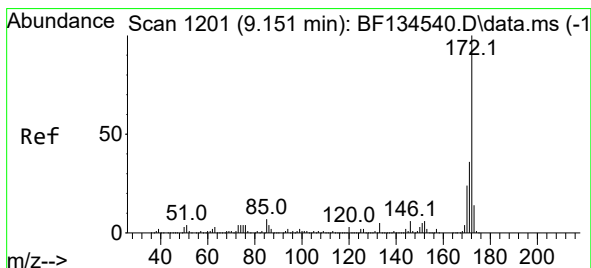
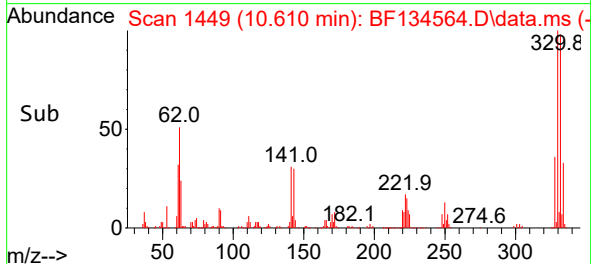
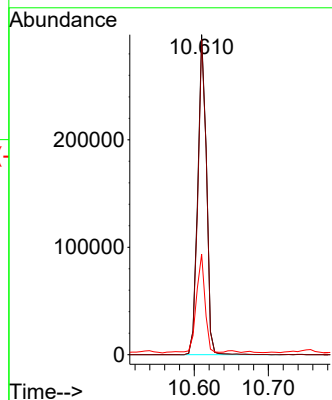
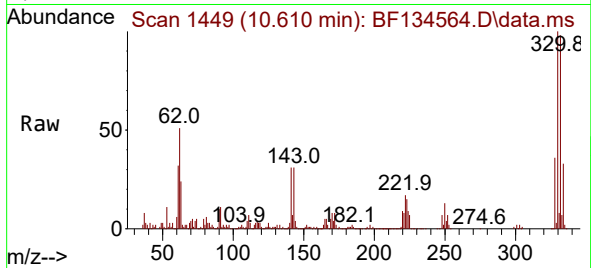




#42  
2,4,6-Tribromophenol  
Concen: 61.885 ng  
RT: 10.610 min Scan# 1449  
Delta R.T. -0.006 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

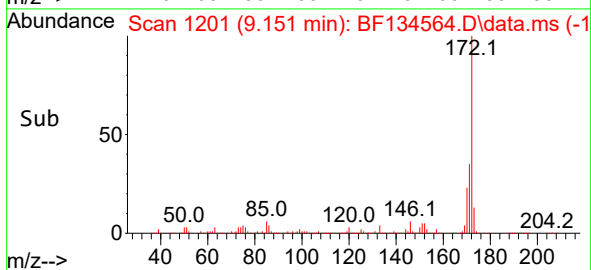
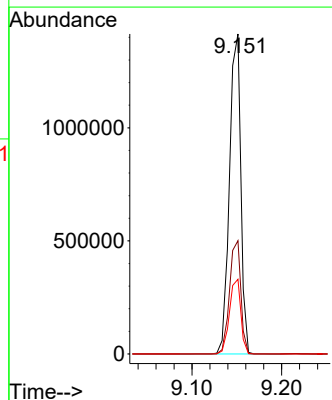
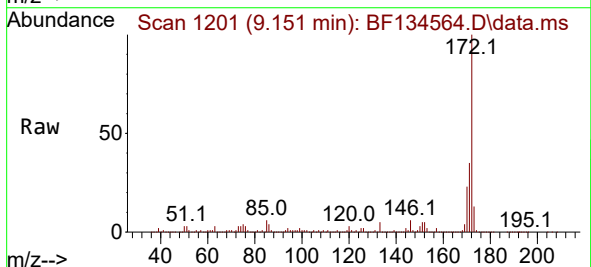
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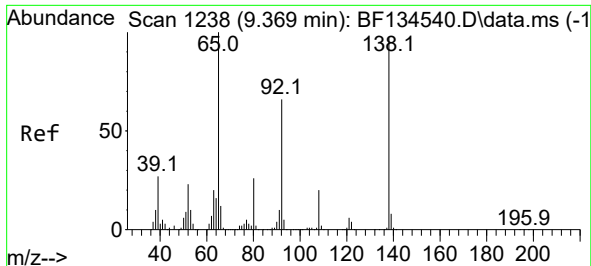
Tgt Ion: 330 Resp: 240119  
Ion Ratio Lower Upper  
330 100  
332 97.9 78.8 118.2  
141 31.3 25.4 38.2



#45  
2-Fluorobiphenyl  
Concen: 54.192 ng  
RT: 9.151 min Scan# 1201  
Delta R.T. 0.000 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion: 172 Resp: 1240556  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.8 43.2  
170 23.3 18.7 28.1





#48

2-Nitroaniline

Concen: 3.369 ng

RT: 9.381 min Scan# 1

Delta R.T. 0.012 min

Lab File: BF134564.D

Acq: 01 Aug 2023 23:37

Instrument :

BNA\_F

ClientSampleId :

HOWE-2-LP

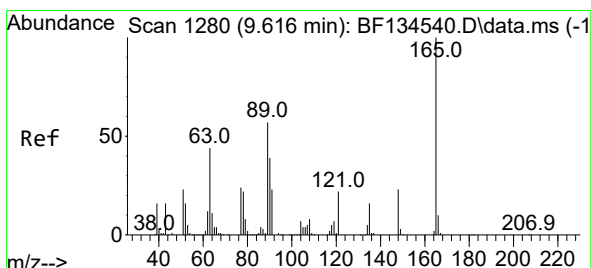
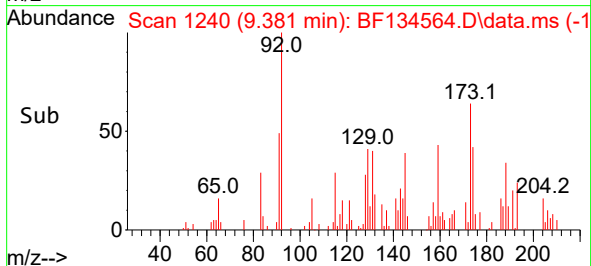
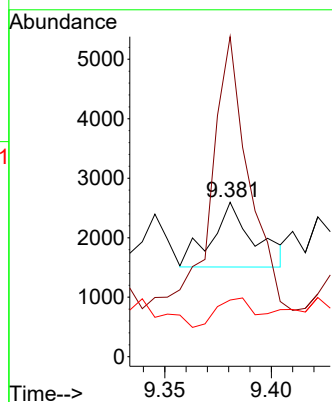
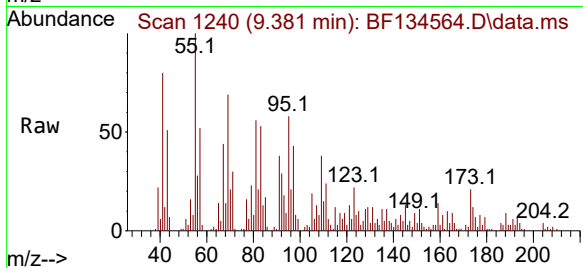
Tgt Ion: 65 Resp: 1500

Ion Ratio Lower Upper

65 100

92 207.2 50.7 76.1#

138 36.7 78.2 117.4#



#51

2,6-Dinitrotoluene

Concen: 2.976 ng

RT: 9.734 min Scan# 1300

Delta R.T. 0.118 min

Lab File: BF134564.D

Acq: 01 Aug 2023 23:37

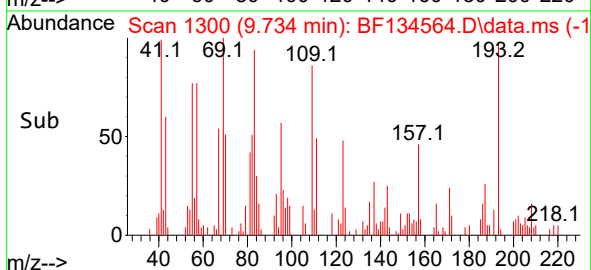
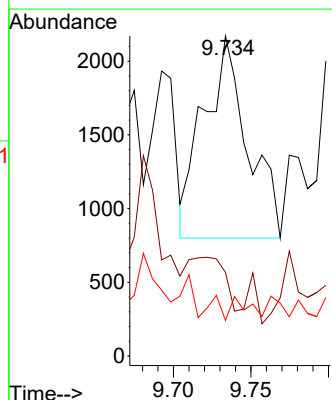
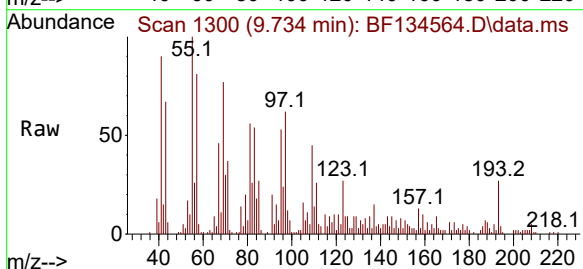
Tgt Ion: 165 Resp: 2694

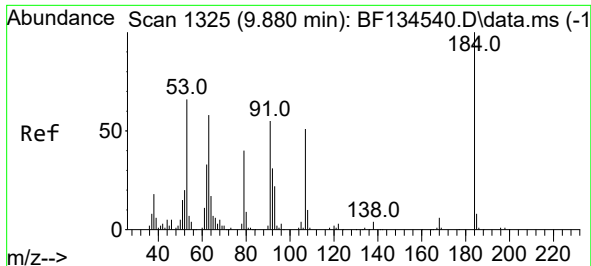
Ion Ratio Lower Upper

165 100

63 26.1 57.8 86.6#

89 11.1 51.8 77.8#

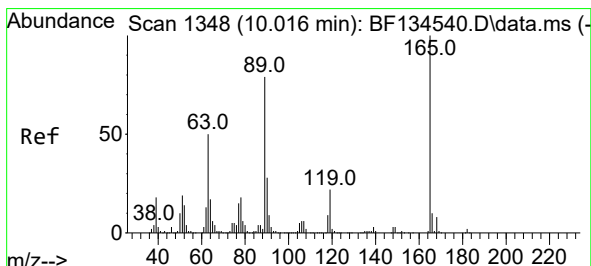
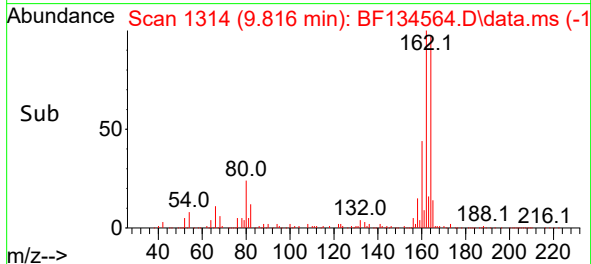
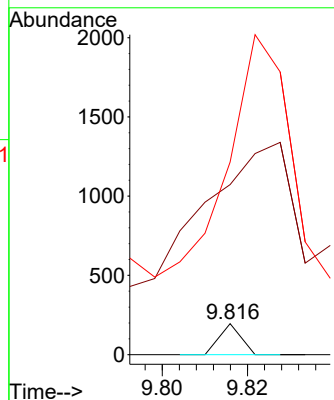
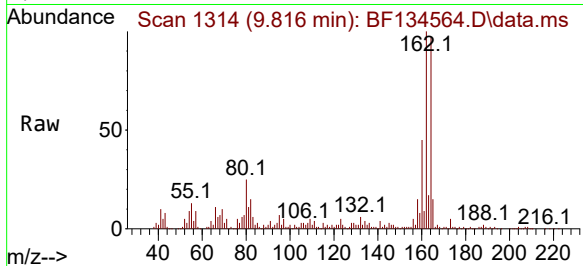




#54  
2,4-Dinitrophenol  
Concen: 6.824 ng  
RT: 9.816 min Scan# 11  
Delta R.T. -0.064 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

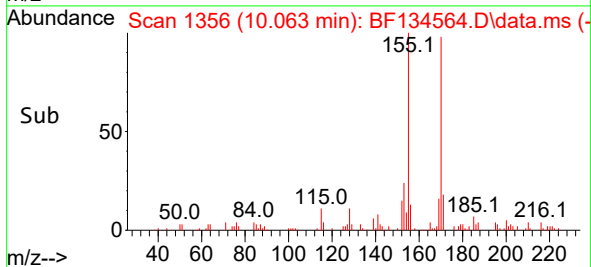
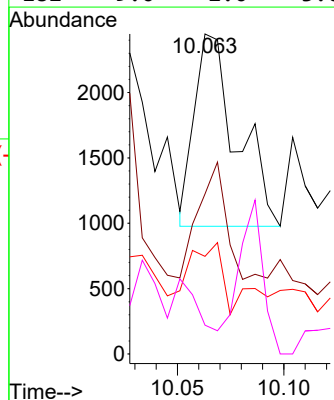
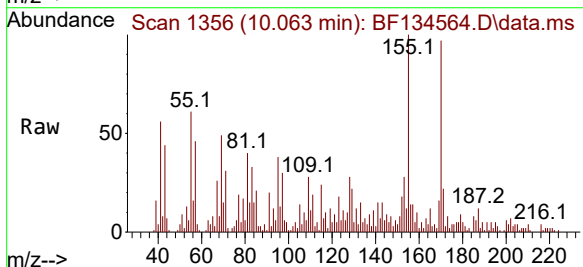
Instrument :  
BNA\_F  
ClientSampleId :  
HOWE-2-LP

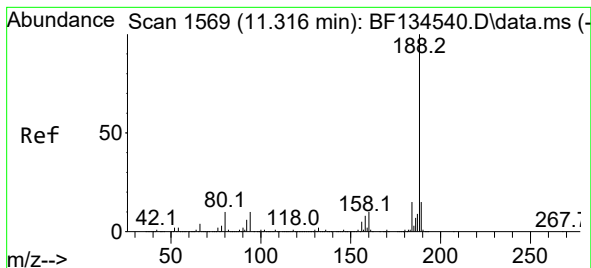
Tgt Ion:184 Resp: 69  
Ion Ratio Lower Upper  
184 100  
63 547.4 57.1 85.7#  
154 619.9 59.1 88.7#



#57  
2,4-Dinitrotoluene  
Concen: 3.149 ng  
RT: 10.063 min Scan# 1356  
Delta R.T. 0.047 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion:165 Resp: 2036  
Ion Ratio Lower Upper  
165 100  
63 50.0 48.9 73.3  
89 30.5 61.7 92.5#  
182 9.0 2.0 3.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134564.D

Acq: 01 Aug 2023 23:37

Instrument :

BNA\_F

ClientSampleId :

HOWE-2-LP

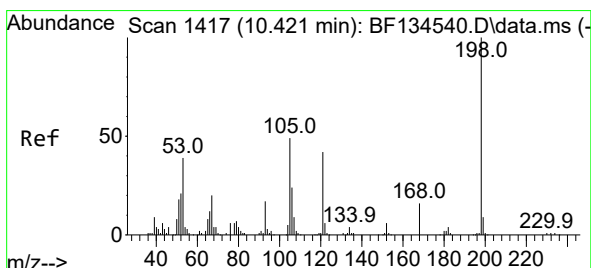
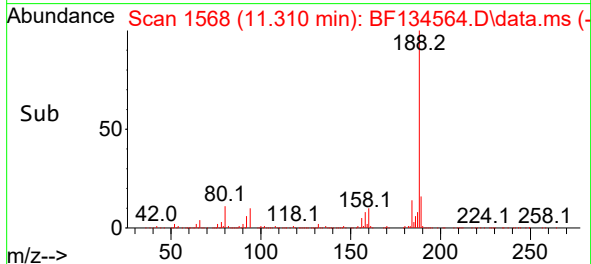
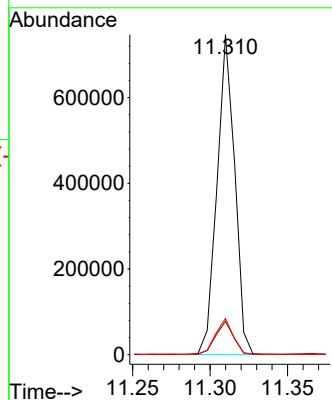
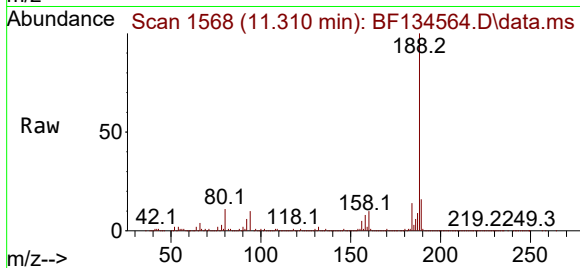
Tgt Ion:188 Resp: 592394

Ion Ratio Lower Upper

188 100

94 10.5 5.1 7.7#

80 11.3 6.6 9.8#



#65

4,6-Dinitro-2-methylphenol

Concen: 8.778 ng

RT: 10.398 min Scan# 1413

Delta R.T. -0.023 min

Lab File: BF134564.D

Acq: 01 Aug 2023 23:37

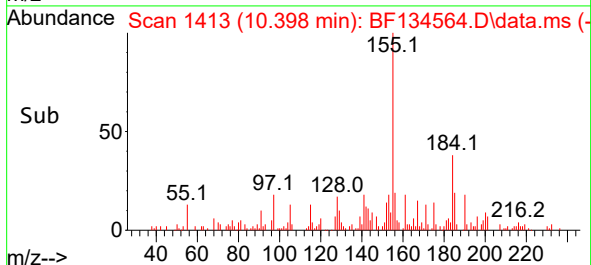
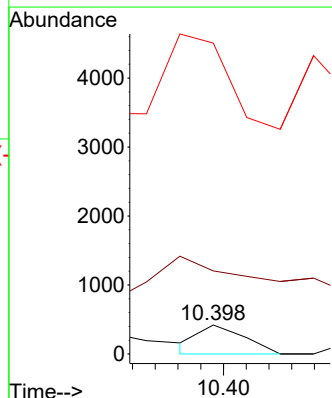
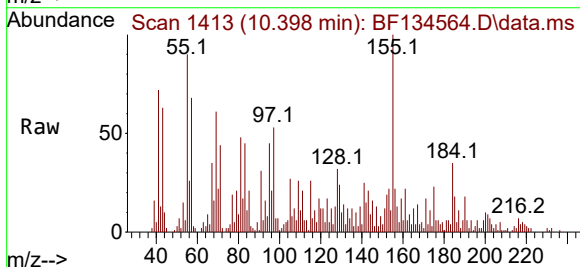
Tgt Ion:198 Resp: 231

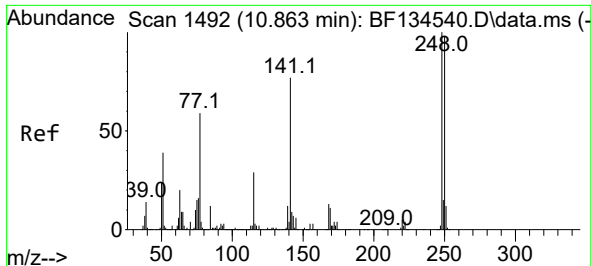
Ion Ratio Lower Upper

198 100

51 287.1 38.6 78.6#

105 1075.7 27.9 67.9#

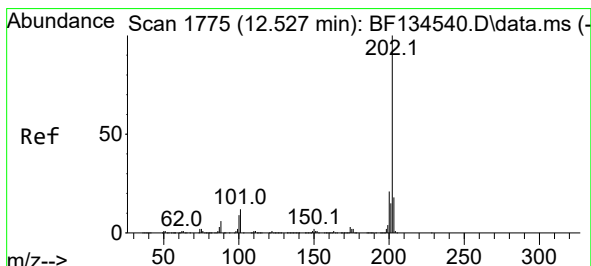
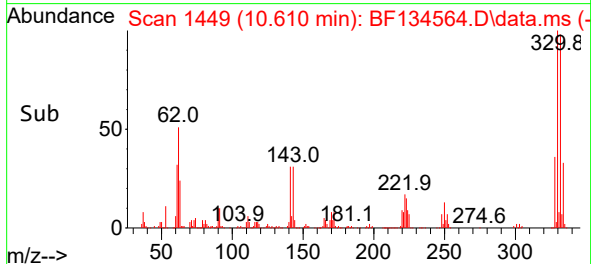
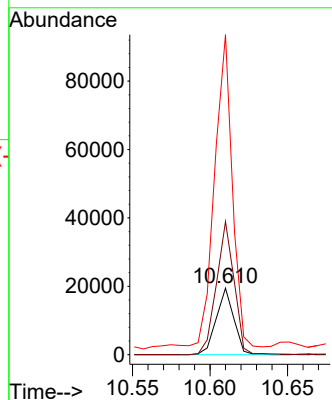
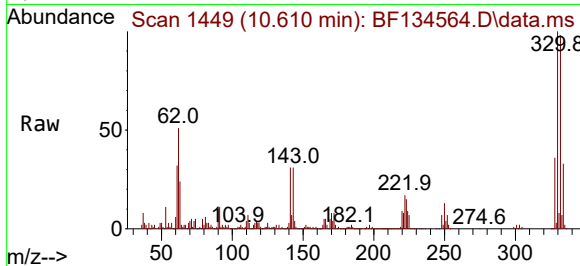




#67  
4-Bromophenyl-phenylether  
Concen: 2.379 ng  
RT: 10.610 min Scan# 1492  
Delta R.T. -0.253 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

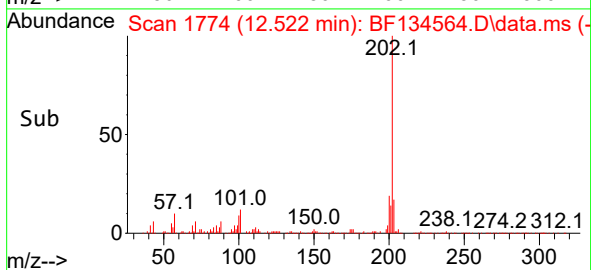
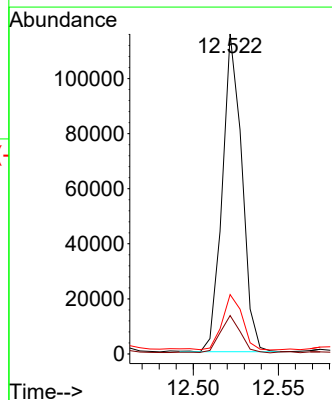
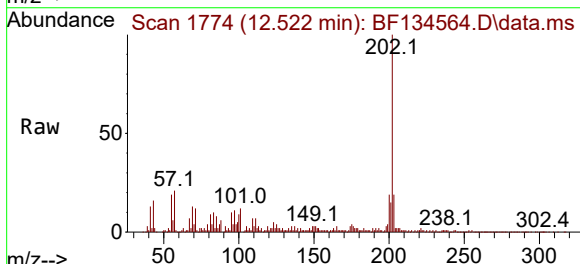
Instrument :  
BNA\_F  
ClientSampleId :  
HOWE-2-LP

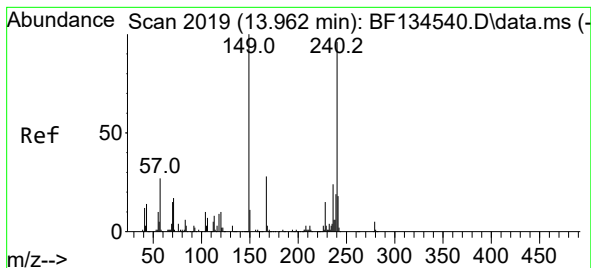
Tgt Ion:248 Resp: 15425  
Ion Ratio Lower Upper  
248 100  
250 199.8 79.6 119.4#  
141 480.1 59.6 89.4#



#75  
Fluoranthene  
Concen: 2.780 ng  
RT: 12.522 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion:202 Resp: 92392  
Ion Ratio Lower Upper  
202 100  
101 12.0 0.0 28.5  
203 18.6 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF134564.D

Acq: 01 Aug 2023 23:37

Instrument :

BNA\_F

ClientSampleId :

HOWE-2-LP

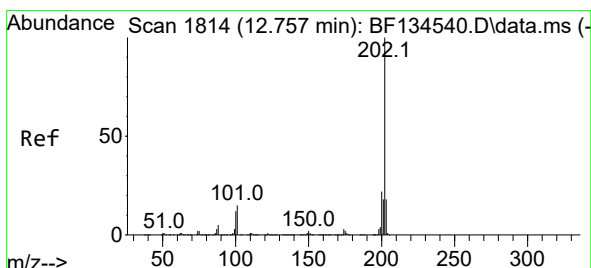
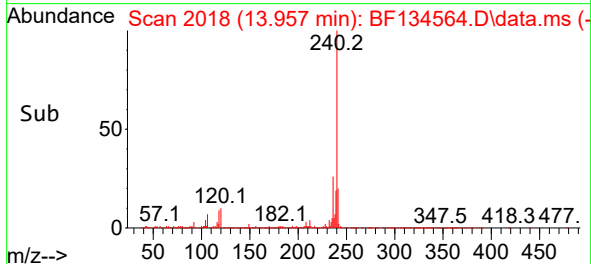
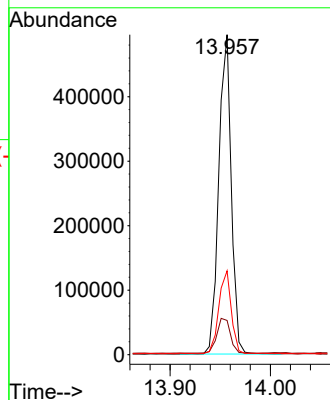
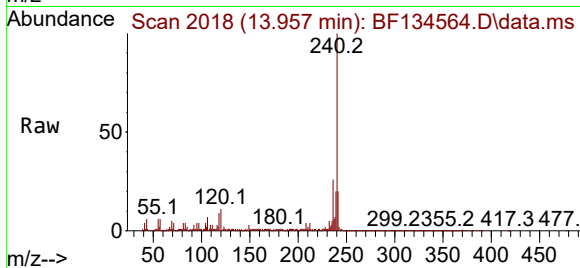
Tgt Ion:240 Resp: 426892

Ion Ratio Lower Upper

240 100

120 10.7 6.6 10.0#

236 26.2 20.2 30.2



#78

Pyrene

Concen: 2.349 ng

RT: 12.751 min Scan# 1813

Delta R.T. -0.006 min

Lab File: BF134564.D

Acq: 01 Aug 2023 23:37

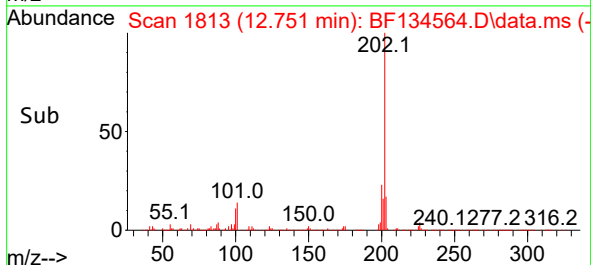
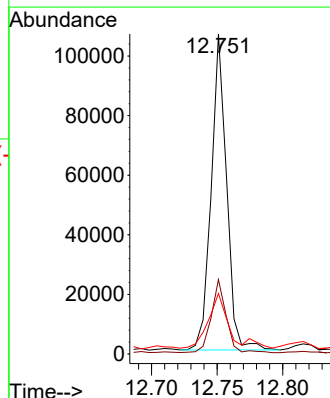
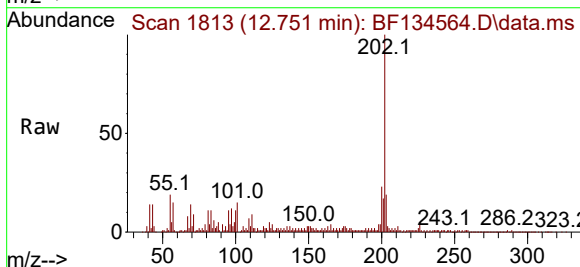
Tgt Ion:202 Resp: 86762

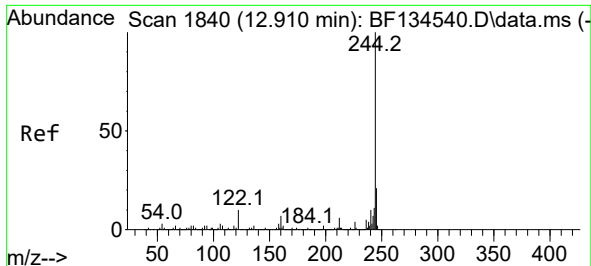
Ion Ratio Lower Upper

202 100

200 23.3 15.8 23.8

203 18.9 13.5 20.3

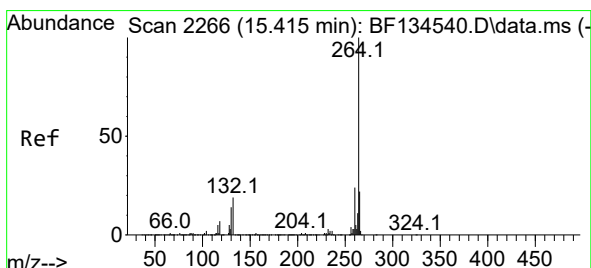
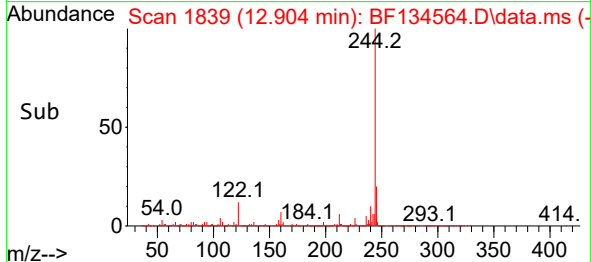
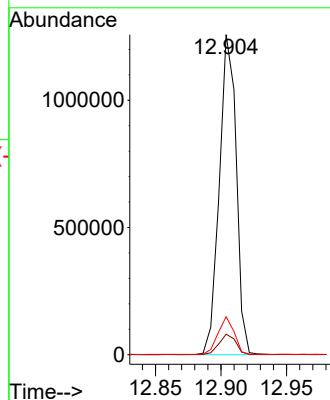
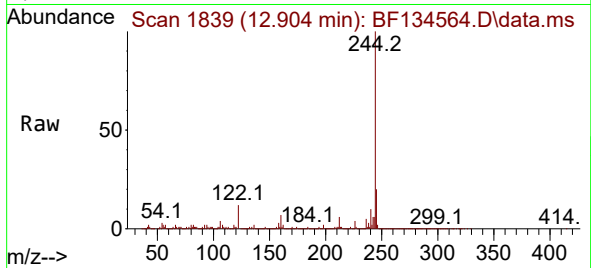




#79  
 Terphenyl-d14  
 Concen: 46.497 ng  
 RT: 12.904 min Scan# 1840  
 Delta R.T. -0.006 min  
 Lab File: BF134564.D  
 Acq: 01 Aug 2023 23:37

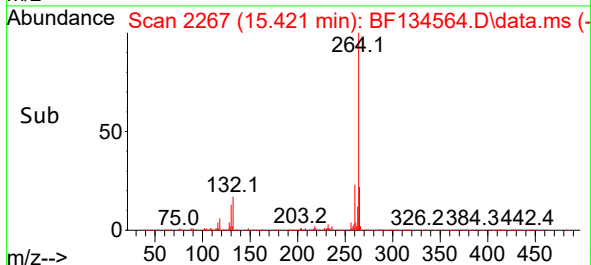
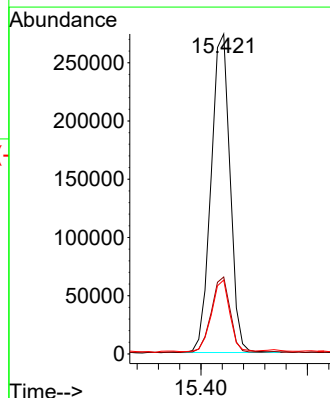
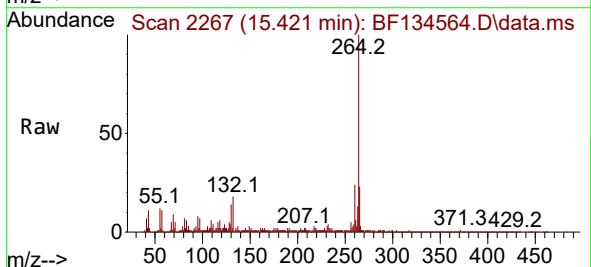
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HOWE-2-LP

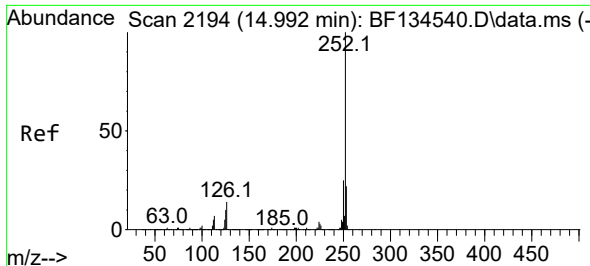
Tgt Ion:244 Resp: 1125957  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.6 8.4  
 122 11.9 8.0 12.0



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.421 min Scan# 2267  
 Delta R.T. 0.006 min  
 Lab File: BF134564.D  
 Acq: 01 Aug 2023 23:37

Tgt Ion:264 Resp: 337949  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 18.4 27.6  
 265 23.1 15.8 23.8

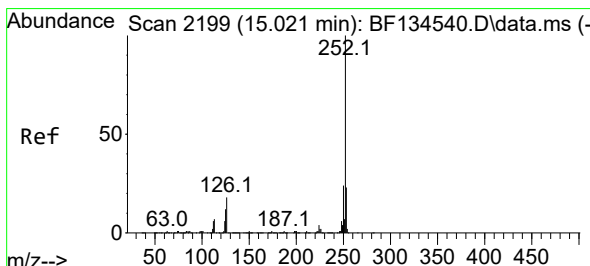
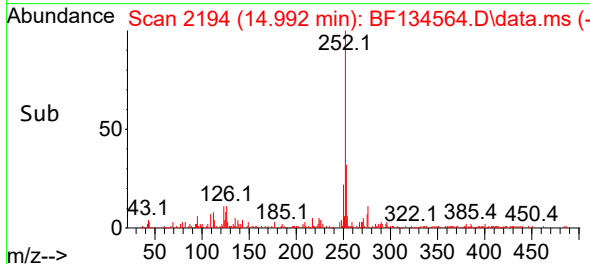
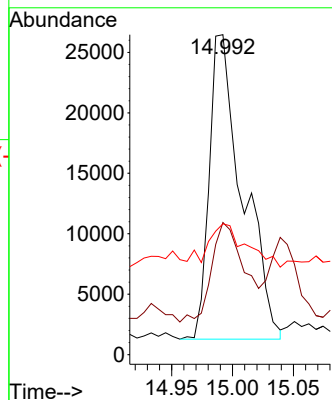
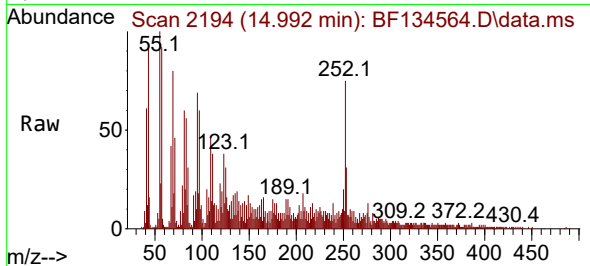




#88  
Benzo(b)fluoranthene  
Concen: 2.331 ng  
RT: 14.992 min Scan# 2194  
Delta R.T. 0.000 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Instrument :  
BNA\_F  
ClientSampleId :  
HOWE-2-LP

Tgt Ion:252 Resp: 48046  
Ion Ratio Lower Upper  
252 100  
253 41.3 17.3 25.9#  
125 40.9 6.0 9.0#



#89  
Benzo(k)fluoranthene  
Concen: 2.340 ng  
RT: 14.992 min Scan# 2194  
Delta R.T. -0.029 min  
Lab File: BF134564.D  
Acq: 01 Aug 2023 23:37

Tgt Ion:252 Resp: 48046  
Ion Ratio Lower Upper  
252 100  
253 41.3 17.9 26.9#  
125 40.9 6.3 9.5#

