

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072916\
 Data File : BF089379.D
 Acq On : 28 Jul 2016 23:12
 Operator : UM/SJ
 Sample : H4205-19
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-40-4.0-5.0

Quant Time: Jul 29 01:18:27 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 28 16:02:32 2016
 Response via : Initial Calibration

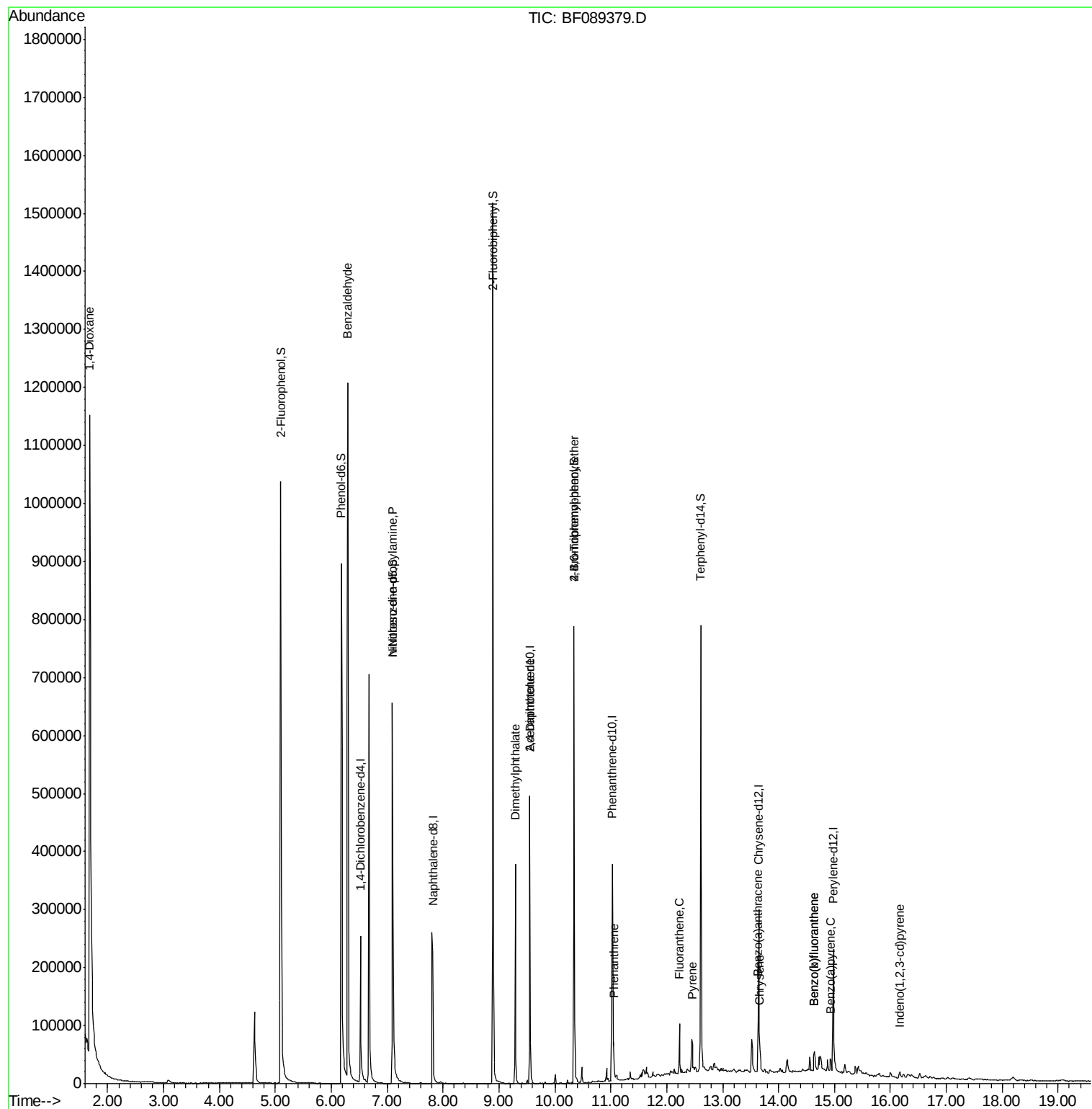
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.52	152	48884	20.00	ng	-0.02
21) Naphthalene-d8	7.82	136	198826	20.00	ng	-0.01
38) Acenaphthene-d10	9.55	164	94368	20.00	ng	-0.02
63) Phenanthrene-d10	11.03	188	160566	20.00	ng	-0.02
75) Chrysene-d12	13.65	240	97011	20.00	ng	-0.02
86) Perylene-d12	14.98	264	99133	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.10	112	357700	116.84	ng	-0.01
7) Phenol-d6	6.18	99	499462	123.45	ng	-0.02
23) Nitrobenzene-d5	7.10	82	307572	91.31	ng	-0.02
41) 2,4,6-Tribromophenol	10.34	330	89306	114.26	ng	-0.02
44) 2-Fluorobiphenyl	8.89	172	485662	75.53	ng	-0.02
78) Terphenyl-d14	12.61	244	290936	70.19	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	1.68	88	57501	41.59	ng	# 26
9) Benzaldehyde	6.30	77	10245	5.19	ng	84
19) n-Nitroso-di-n-propylamine	7.10	70	41163	16.87	ng	# 81
49) Dimethylphthalate	9.29	163	143627	20.00	ng	99
56) 2,4-Dinitrotoluene	9.55	165	11922	6.14	ng	# 7
66) 4-Bromophenyl-phenylether	10.34	248	7032	4.59	ng	# 1
70) Phenanthrene	11.05	178	22750	2.75	ng	99
74) Fluoranthene	12.23	202	38468	4.42	ng	99
77) Pyrene	12.46	202	33492	4.56	ng	99
80) Benzo(a)anthracene	13.63	228	16463	3.01	ng	97
82) Chrysene	13.67	228	12663	2.17	ng	99
85) Indeno(1,2,3-cd)pyrene	16.17	276	8316	2.01	ng	92
87) Benzo(b)fluoranthene	14.64	252	23292	3.78	ng	# 94
88) Benzo(k)fluoranthene	14.64	252	23292	4.12	ng	# 97
89) Benzo(a)pyrene	14.93	252	14051	2.54	ng	97

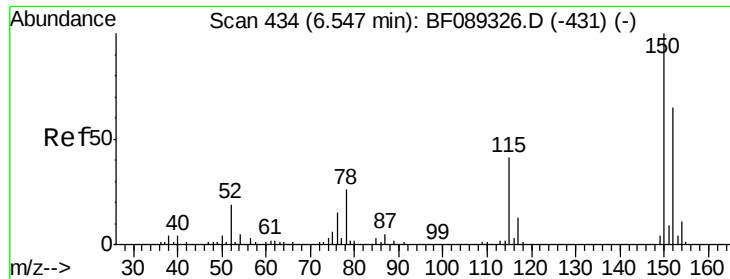
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

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BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 28 16:02:32 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.52 min Scan# 432

Delta R.T. -0.02 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

Instrument :

BNA_F

ClientSampleId :

SB-40-4.0-5.0

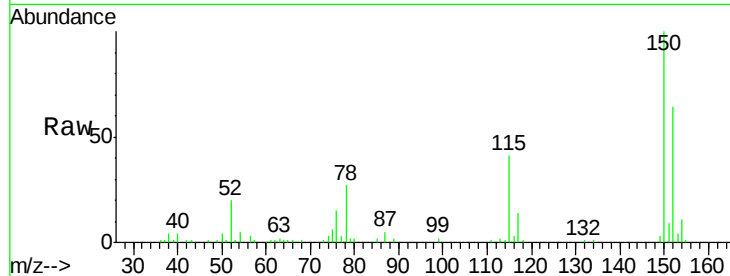
Tgt Ion:152 Resp: 48884

Ion Ratio Lower Upper

152 100

150 156.1 129.5 194.3

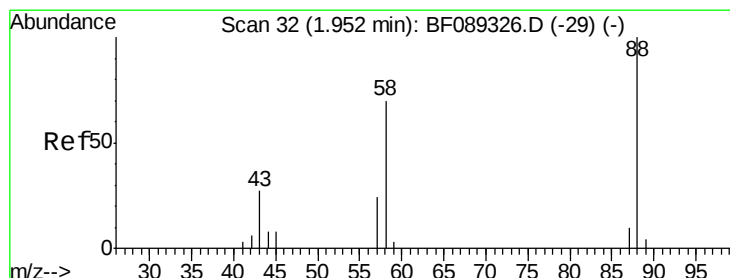
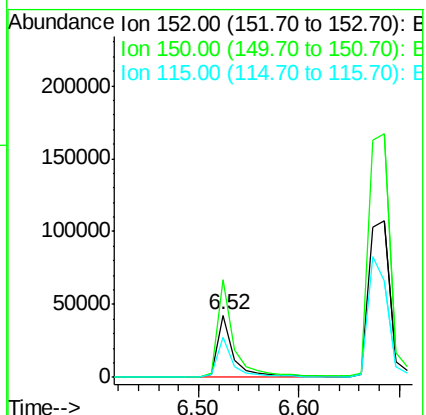
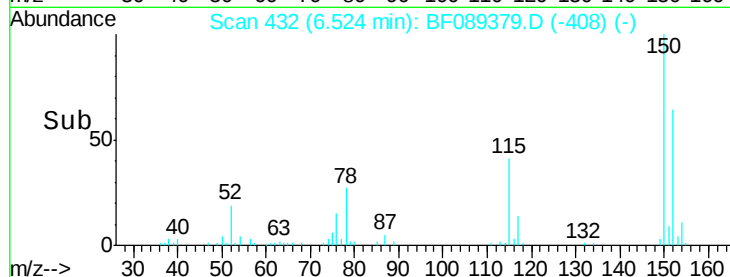
115 64.4 51.4 77.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 41.59 ng

RT: 1.68 min Scan# 8

Delta R.T. -0.27 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

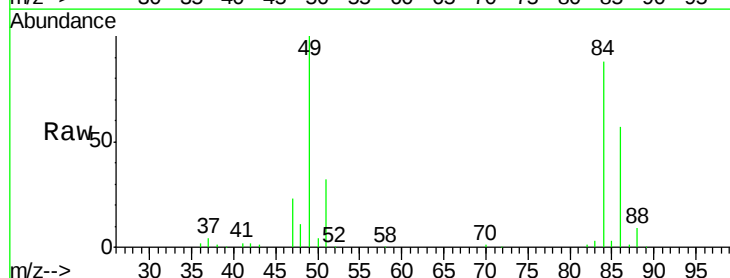
Tgt Ion: 88 Resp: 57501

Ion Ratio Lower Upper

88 100

58 0.0 53.2 79.8#

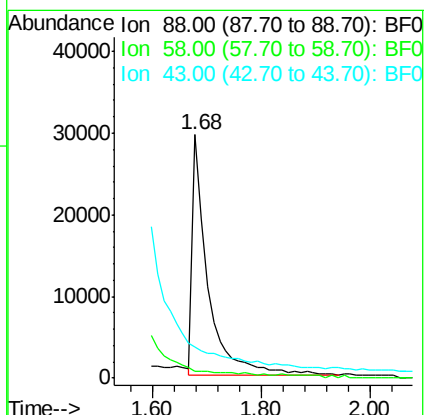
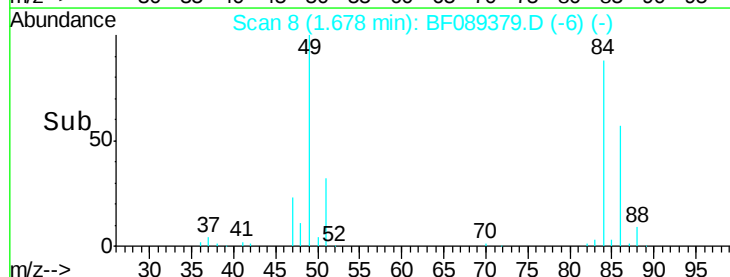
43 0.0 20.6 31.0#

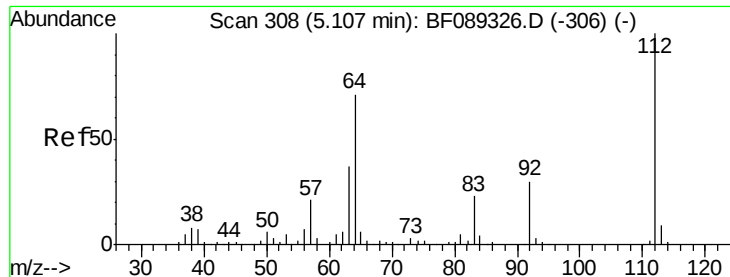


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 116.84 ng

RT: 5.10 min Scan# 307

Delta R.T. -0.01 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

Instrument :

BNA_F

ClientSampleId :

SB-40-4.0-5.0

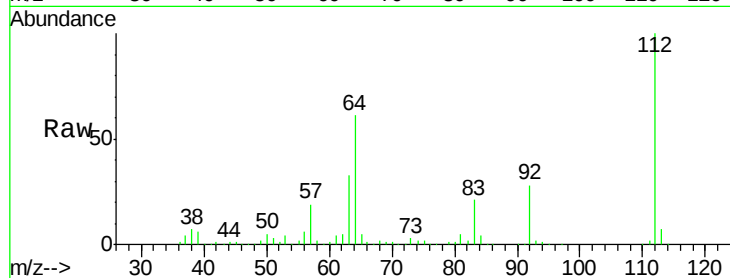
Tgt Ion: 112 Resp: 357700

Ion Ratio Lower Upper

112 100

64 61.3 55.0 82.6

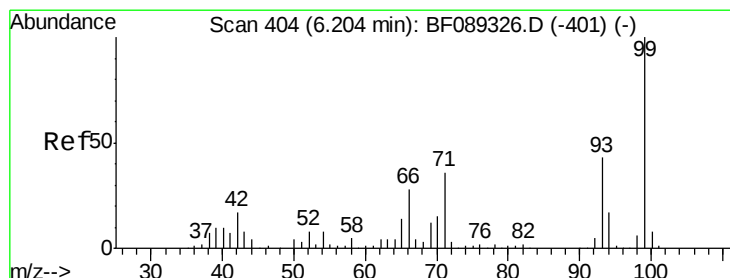
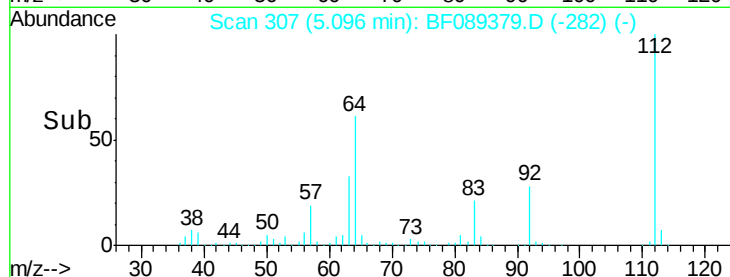
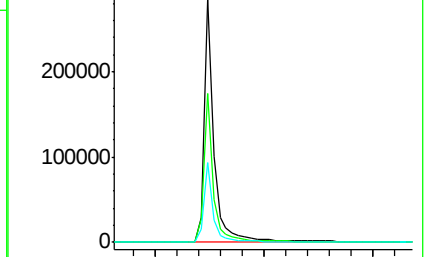
63 32.8 29.4 44.2



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 123.45 ng

RT: 6.18 min Scan# 402

Delta R.T. -0.02 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

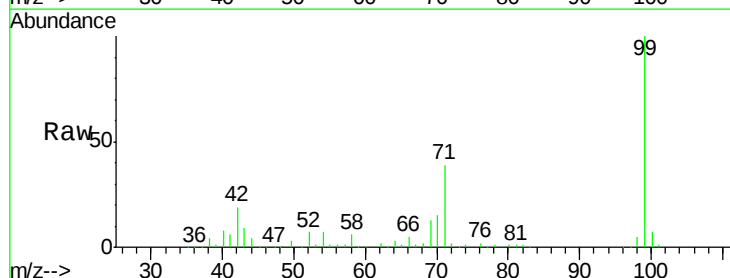
Tgt Ion: 99 Resp: 499462

Ion Ratio Lower Upper

99 100

42 18.8 13.6 20.4

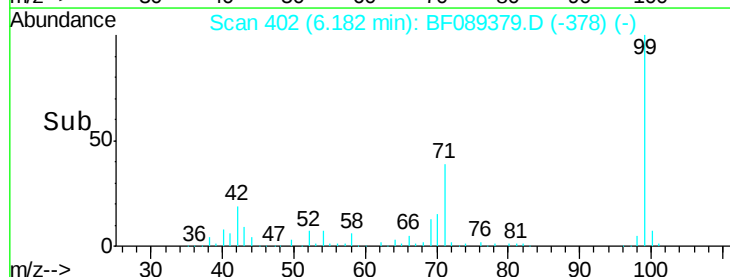
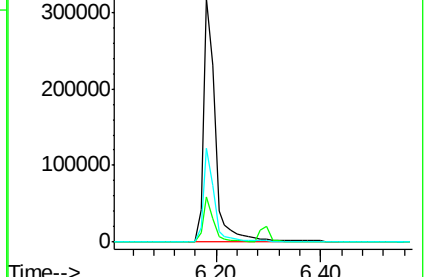
71 38.6 29.4 44.2

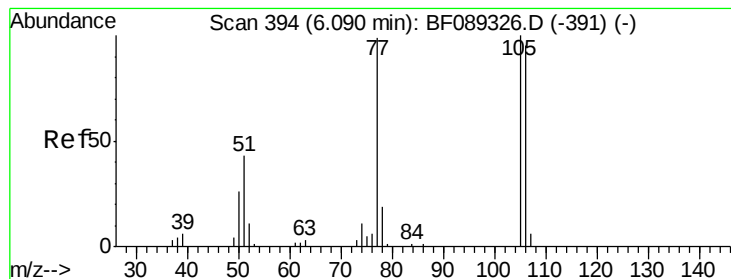


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#9

Benzaldehyde

Concen: 5.19 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.21 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

Instrument :

BNA_F

ClientSampled :

SB-40-4.0-5.0

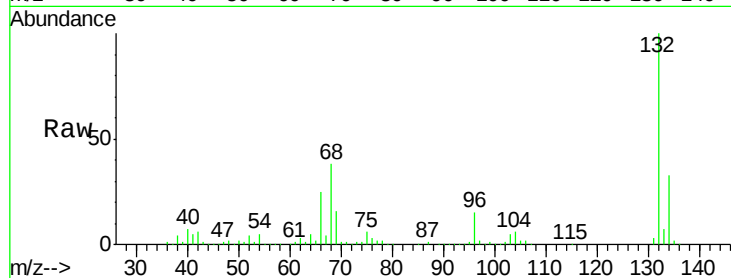
Tgt Ion: 77 Resp: 10245

Ion Ratio Lower Upper

77 100

105 85.3 82.9 122.9

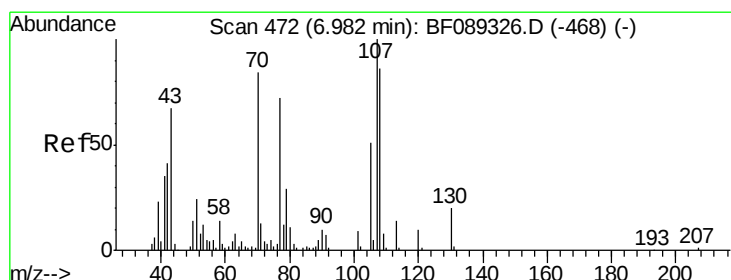
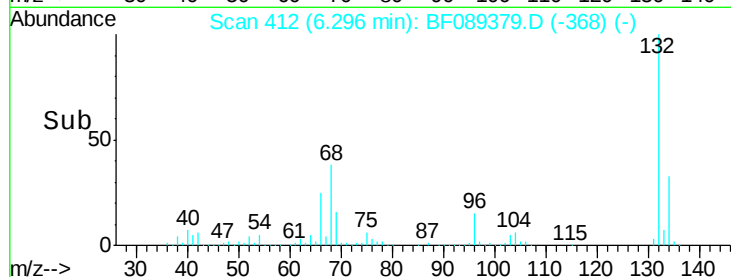
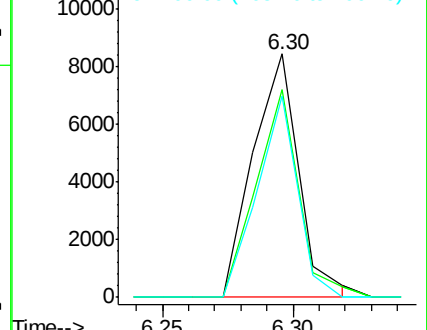
106 82.7 75.9 115.9



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E



#19

n-Nitroso-di-n-propylamine

Concen: 16.87 ng

RT: 7.10 min Scan# 482

Delta R.T. 0.11 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

Tgt Ion: 70 Resp: 41163

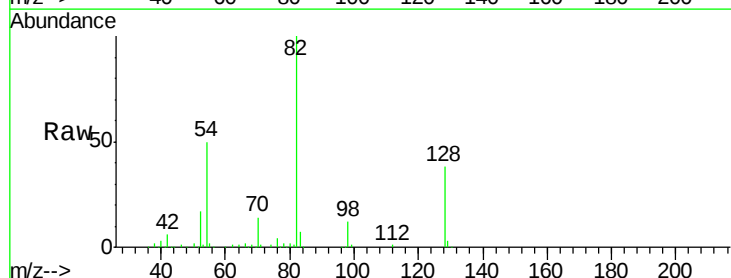
Ion Ratio Lower Upper

70 100

42 45.1 38.6 57.8

101 0.0 8.3 12.5#

130 1.9 19.0 28.4#

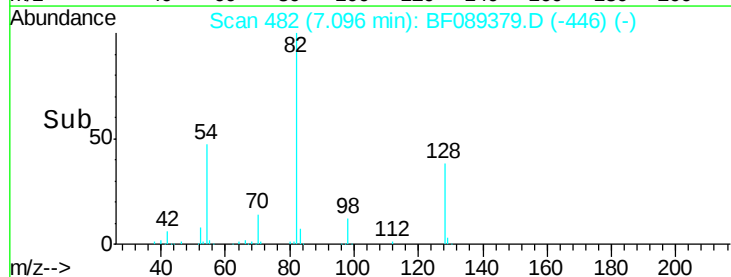
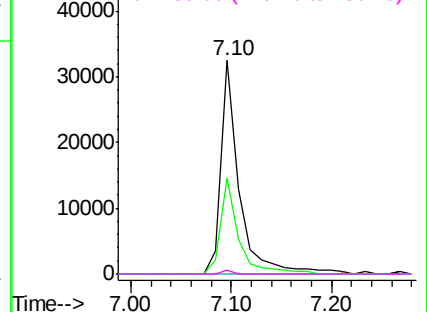


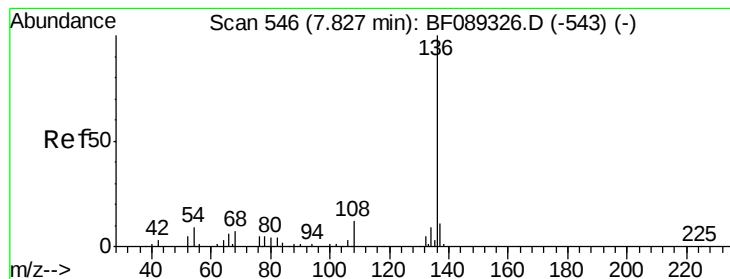
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.82 min Scan# 545

Delta R.T. -0.01 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

Instrument :

BNA_F

ClientSampleId :

SB-40-4.0-5.0

Tgt Ion: 136 Resp: 198826

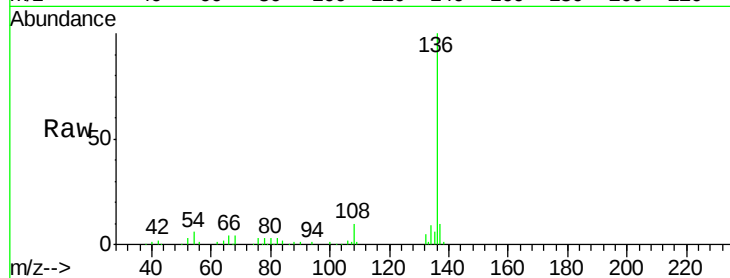
Ion Ratio Lower Upper

136 100

137 10.2 8.6 13.0

54 5.6 7.0 10.4#

68 4.2 4.9 7.3#

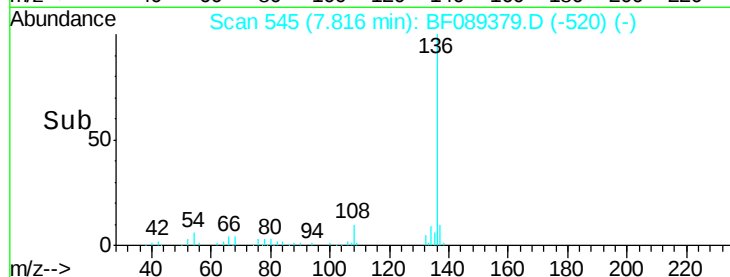


Abundance Ion 136.00 (135.70 to 136.70): E

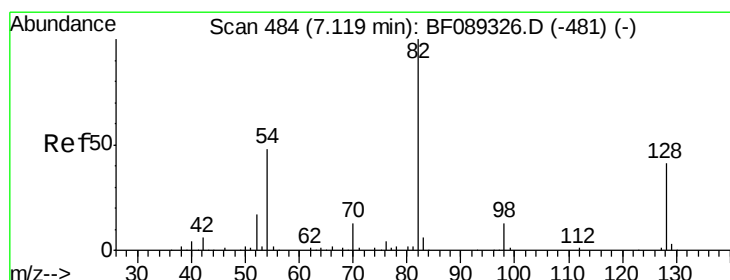
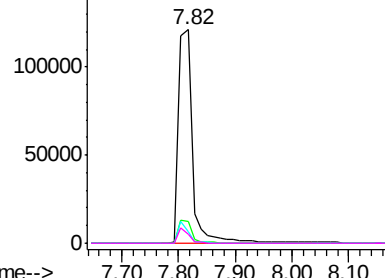
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 91.31 ng

RT: 7.10 min Scan# 482

Delta R.T. -0.02 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

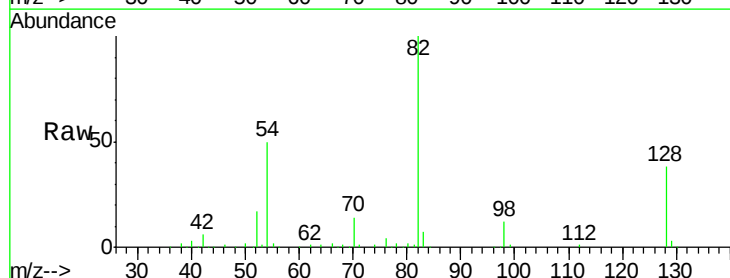
Tgt Ion: 82 Resp: 307572

Ion Ratio Lower Upper

82 100

128 38.3 32.5 48.7

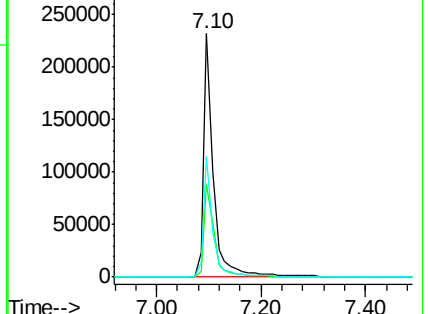
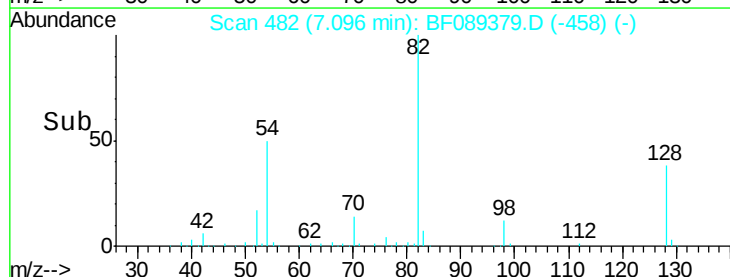
54 49.6 38.8 58.2

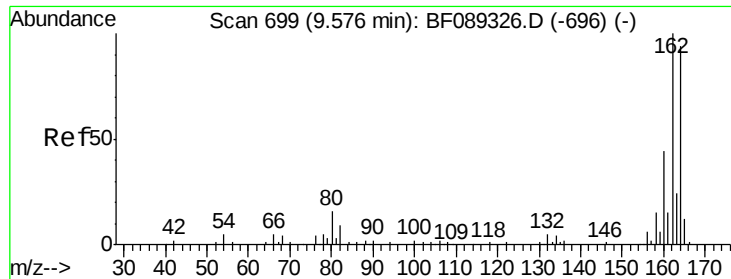


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.02 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

Instrument :

BNA_F

ClientSampleId :

SB-40-4.0-5.0

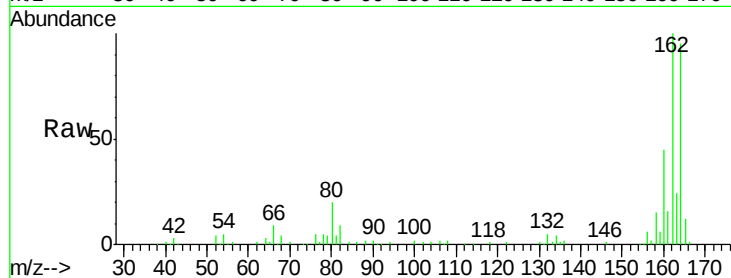
Tgt Ion:164 Resp: 94368

Ion Ratio Lower Upper

164 100

162 105.0 83.7 125.5

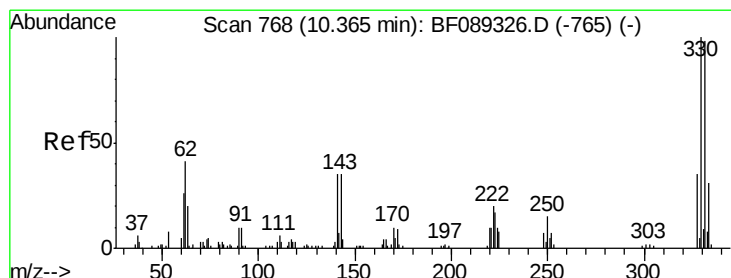
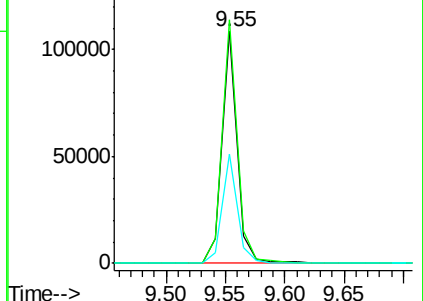
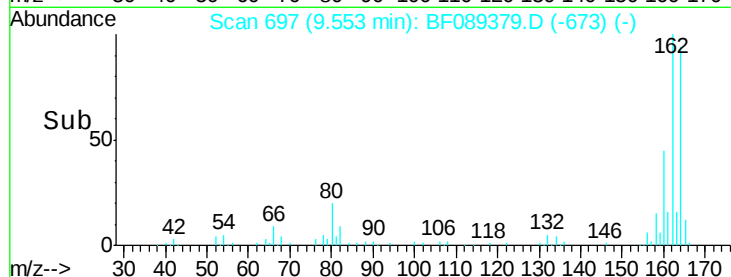
160 47.1 37.8 56.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 114.26 ng

RT: 10.34 min Scan# 766

Delta R.T. -0.02 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

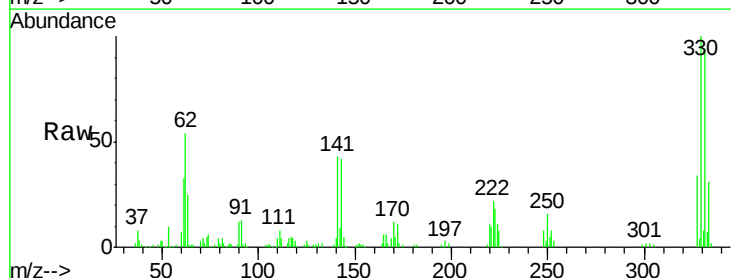
Tgt Ion:330 Resp: 89306

Ion Ratio Lower Upper

330 100

332 94.9 76.8 115.2

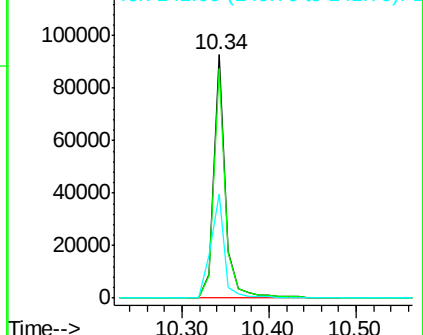
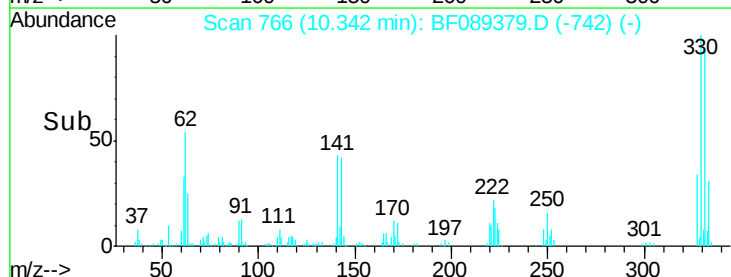
141 49.1 37.3 55.9



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

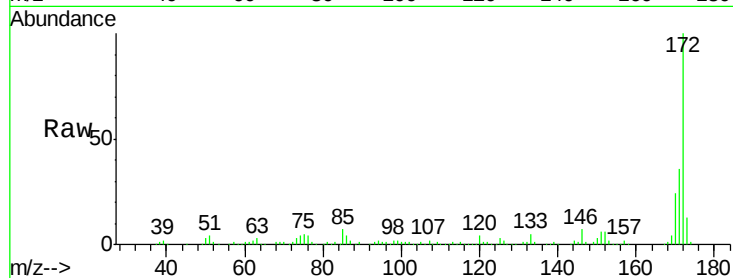




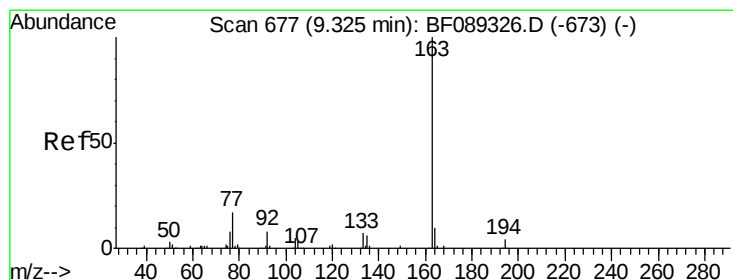
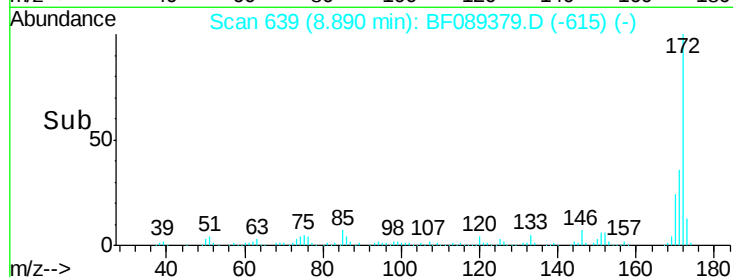
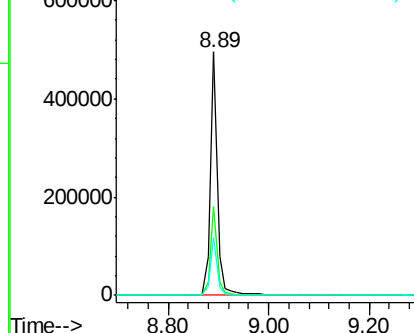
#44
 2-Fluorobiphenyl
 Concen: 75.53 ng
 RT: 8.89 min Scan# 639
 Delta R.T. -0.02 min
 Lab File: BF089379.D
 Acq: 28 Jul 2016 23:12

Instrument :
 BNA_F
 ClientSampleId :
 SB-40-4.0-5.0

Tgt Ion:172 Resp: 485662
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.2 43.8
 170 23.7 19.2 28.8

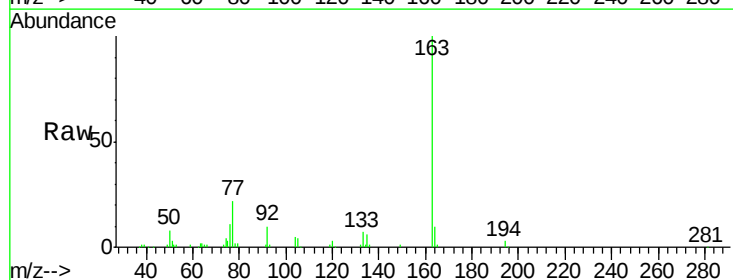


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

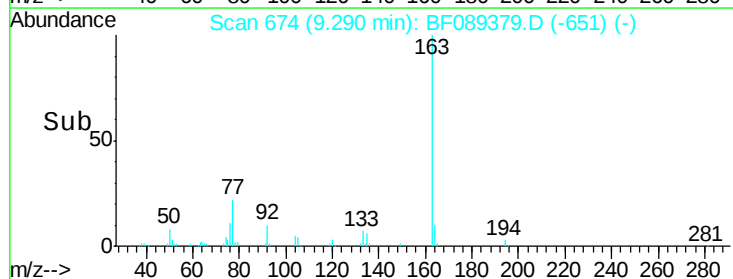
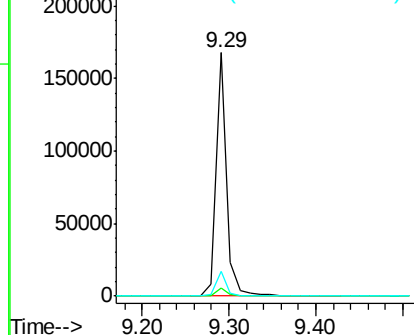


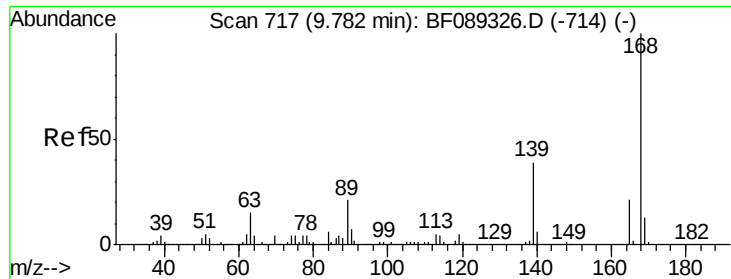
#49
 Dimethylphthalate
 Concen: 20.00 ng
 RT: 9.29 min Scan# 674
 Delta R.T. -0.03 min
 Lab File: BF089379.D
 Acq: 28 Jul 2016 23:12

Tgt Ion:163 Resp: 143627
 Ion Ratio Lower Upper
 163 100
 194 3.4 2.8 4.2
 164 10.1 7.8 11.8



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

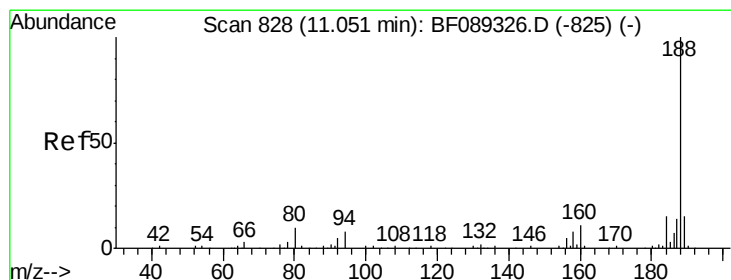
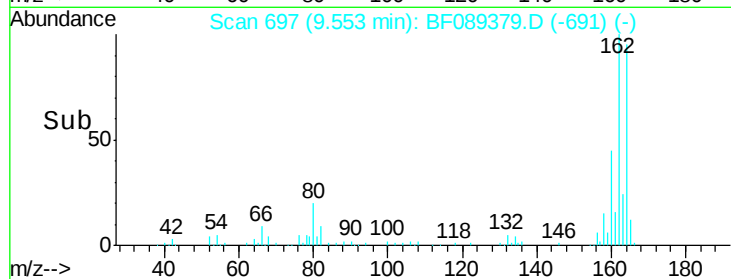
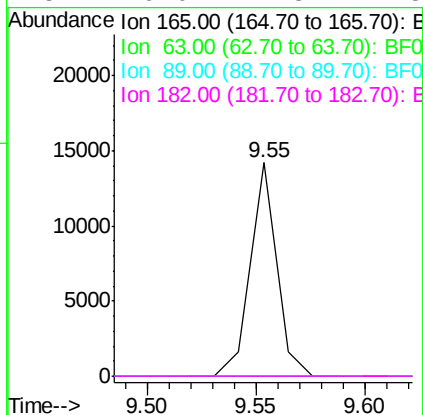
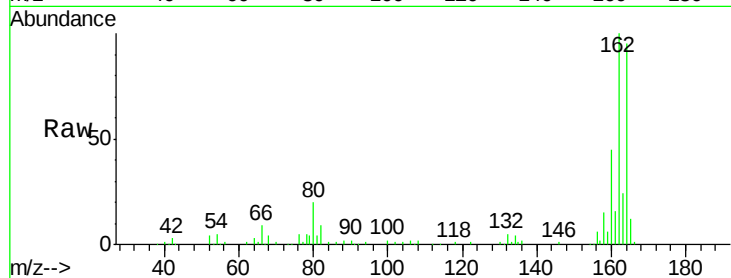




#56
2,4-Dinitrotoluene
Concen: 6.14 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.23 min
Lab File: BF089379.D
Acq: 28 Jul 2016 23:12

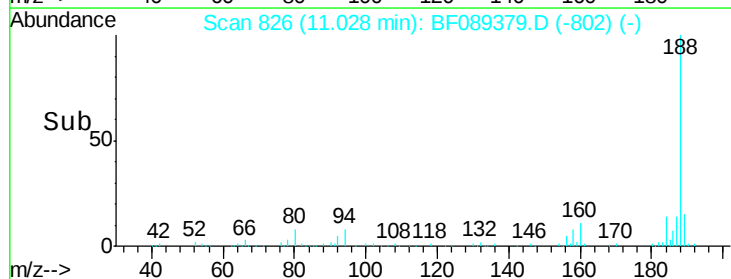
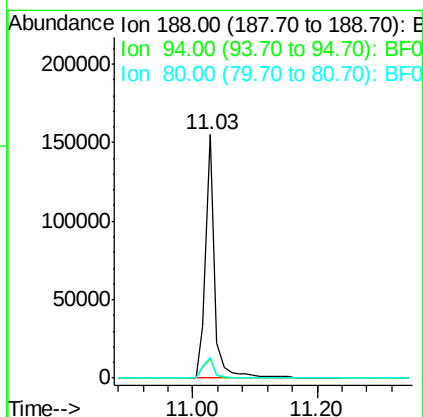
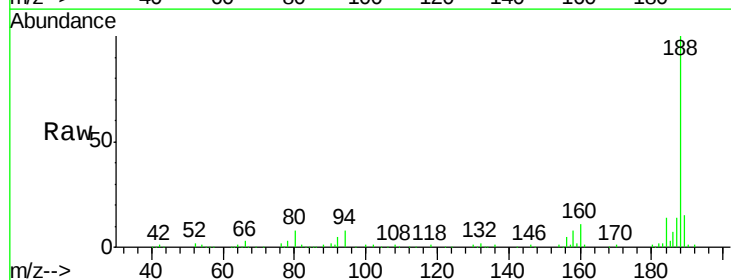
Instrument :
BNA_F
ClientSampleId :
SB-40-4.0-5.0

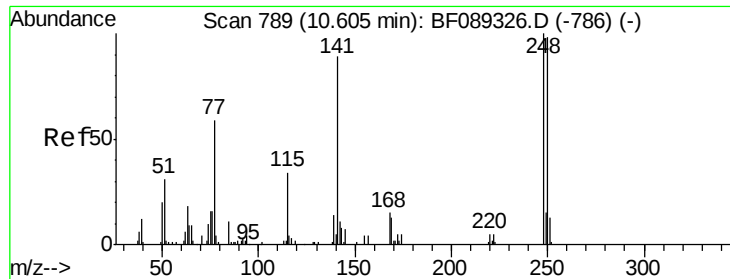
Tgt Ion:165 Resp: 11922
Ion Ratio Lower Upper
165 100
63 0.0 58.2 87.2#
89 0.0 79.1 118.7#
182 0.0 1.8 2.8#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.03 min Scan# 826
Delta R.T. -0.02 min
Lab File: BF089379.D
Acq: 28 Jul 2016 23:12

Tgt Ion:188 Resp: 160566
Ion Ratio Lower Upper
188 100
94 8.1 6.5 9.7
80 8.4 7.2 10.8

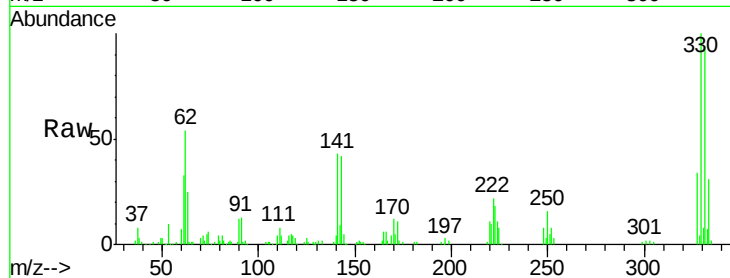




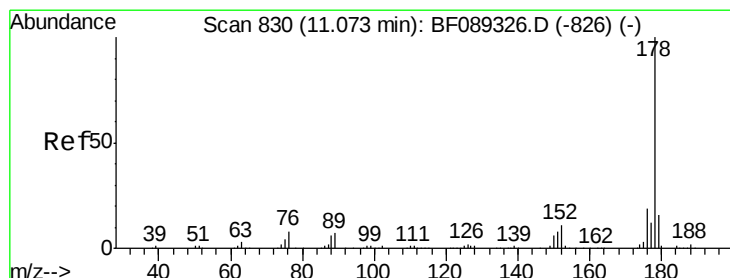
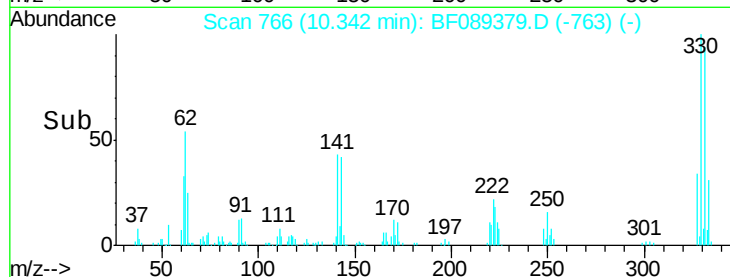
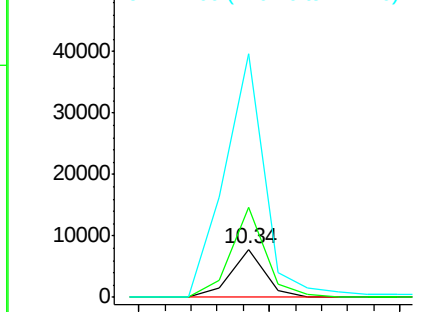
#66
 4-Bromophenyl-phenylether
 Concen: 4.59 ng
 RT: 10.34 min Scan# 766
 Delta R.T. -0.26 min
 Lab File: BF089379.D
 Acq: 28 Jul 2016 23:12

Instrument :
 BNA_F
 ClientSampleId :
 SB-40-4.0-5.0

Tgt Ion:248 Resp: 7032
 Ion Ratio Lower Upper
 248 100
 250 189.8 78.2 117.2#
 141 509.9 62.0 93.0#

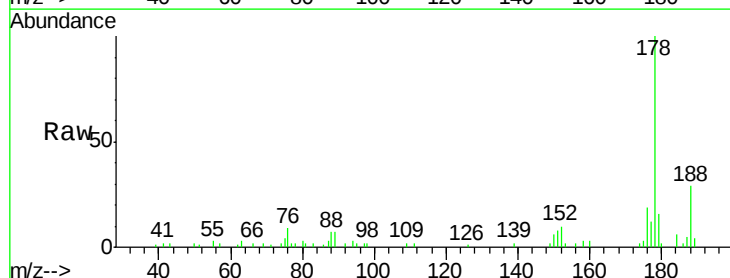


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

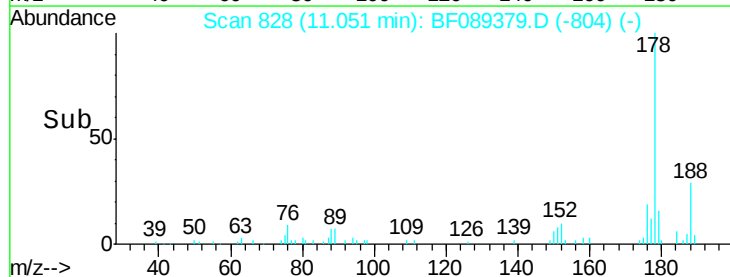
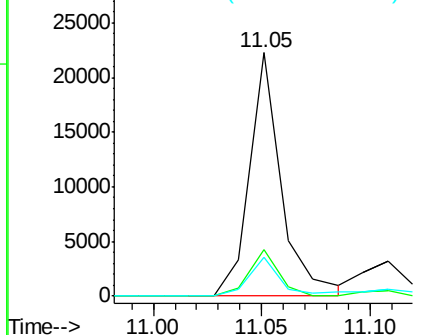


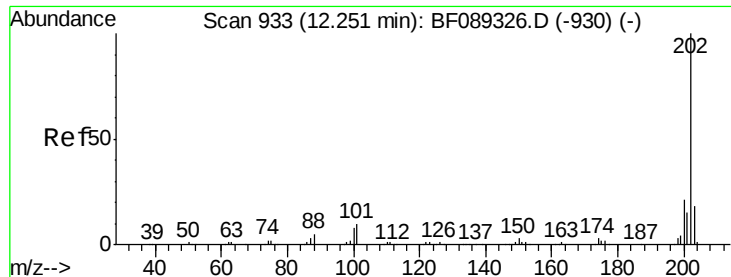
#70
 Phenanthrene
 Concen: 2.75 ng
 RT: 11.05 min Scan# 828
 Delta R.T. -0.02 min
 Lab File: BF089379.D
 Acq: 28 Jul 2016 23:12

Tgt Ion:178 Resp: 22750
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.5 23.3
 179 16.2 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

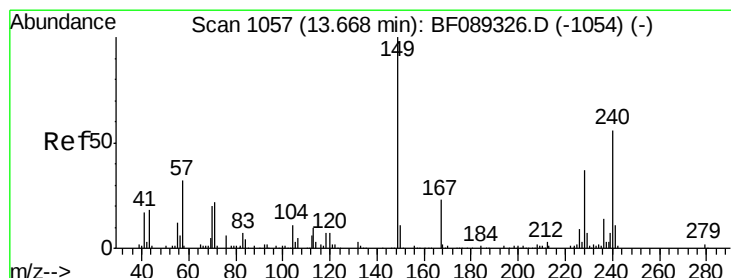
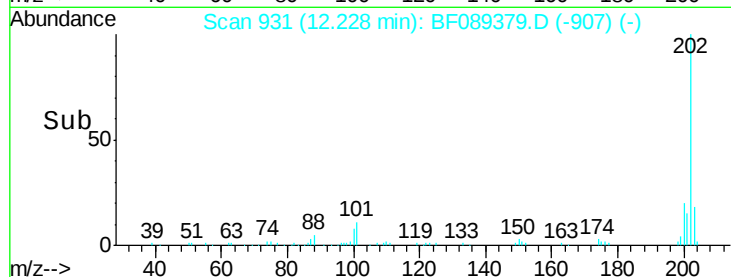
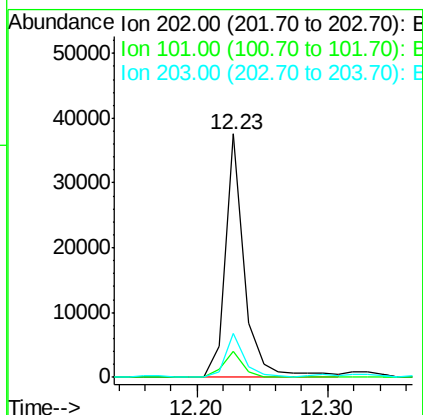
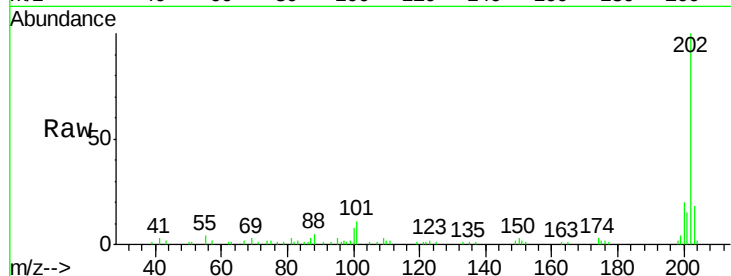




#74
 Fluoranthene
 Concen: 4.42 ng
 RT: 12.23 min Scan# 931
 Delta R.T. -0.02 min
 Lab File: BF089379.D
 Acq: 28 Jul 2016 23:12

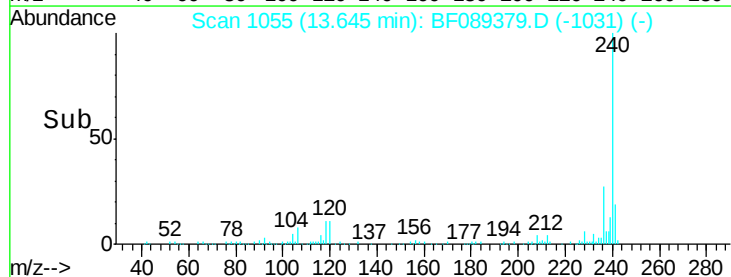
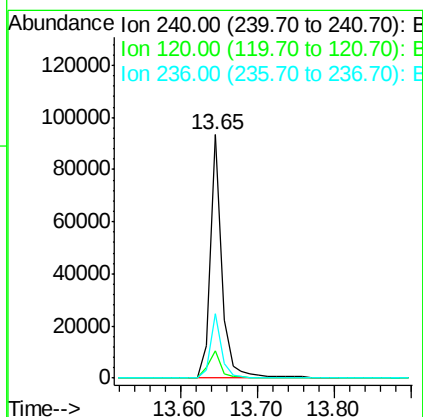
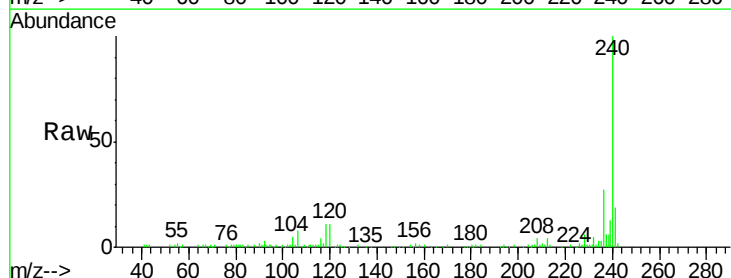
Instrument :
 BNA_F
 ClientSampleId :
 SB-40-4.0-5.0

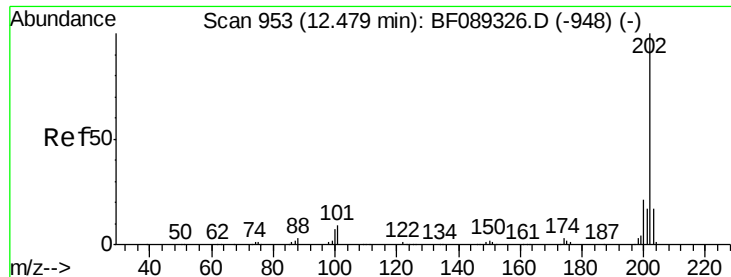
Tgt Ion: 202 Resp: 38468
 Ion Ratio Lower Upper
 202 100
 101 10.6 0.0 29.9
 203 17.8 0.0 37.3



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.65 min Scan# 1055
 Delta R.T. -0.02 min
 Lab File: BF089379.D
 Acq: 28 Jul 2016 23:12

Tgt Ion: 240 Resp: 97011
 Ion Ratio Lower Upper
 240 100
 120 11.4 9.1 13.7
 236 26.6 20.6 30.8





#77

Pyrene

Concen: 4.56 ng

RT: 12.46 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

Instrument :

BNA_F

ClientSampleId :

SB-40-4.0-5.0

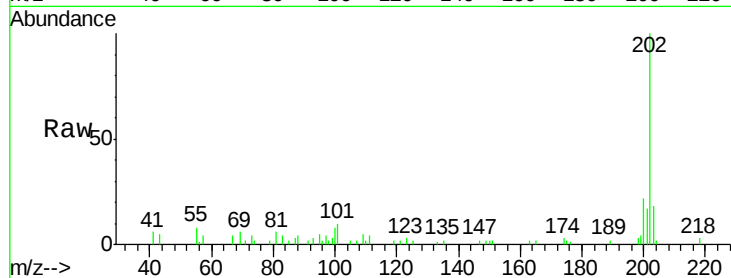
Tgt Ion:202 Resp: 33492

Ion Ratio Lower Upper

202 100

200 21.6 16.9 25.3

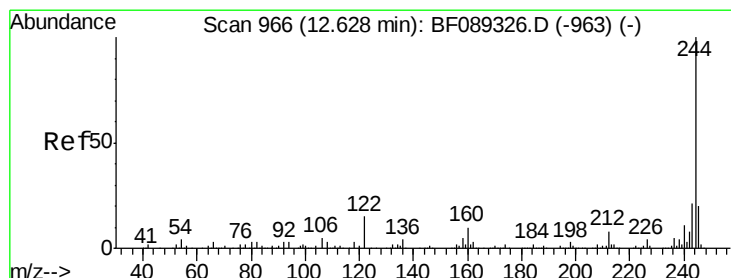
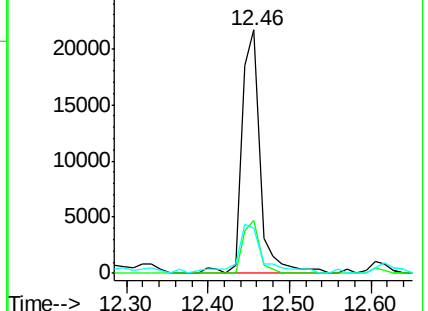
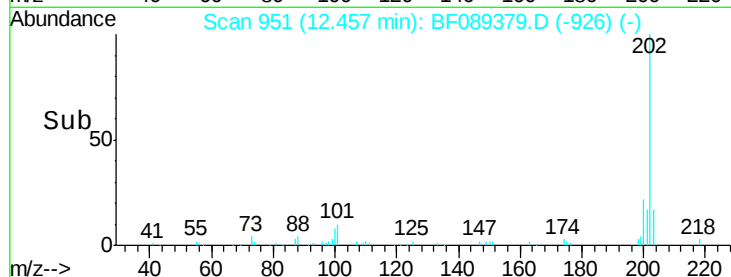
203 18.4 14.0 21.0



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



#78

Terphenyl-d14

Concen: 70.19 ng

RT: 12.61 min Scan# 964

Delta R.T. -0.02 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

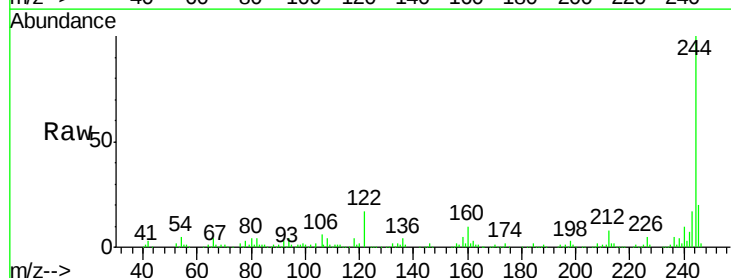
Tgt Ion:244 Resp: 290936

Ion Ratio Lower Upper

244 100

212 8.5 6.5 9.7

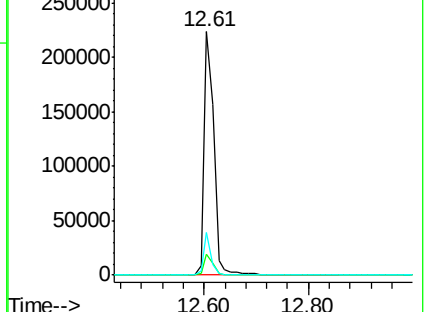
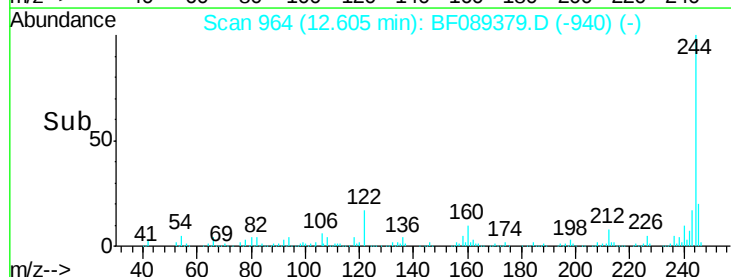
122 17.4 11.4 17.0#

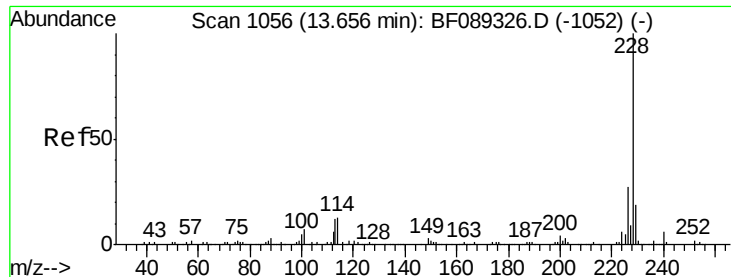


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 3.01 ng

RT: 13.63 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

Instrument :

BNA_F

ClientSampleId :

SB-40-4.0-5.0

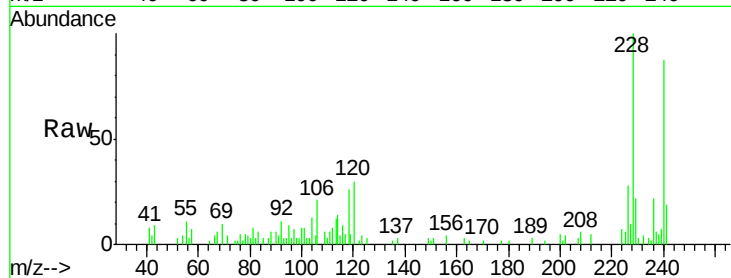
Tgt Ion:228 Resp: 16463

Ion Ratio Lower Upper

228 100

226 27.8 21.4 32.2

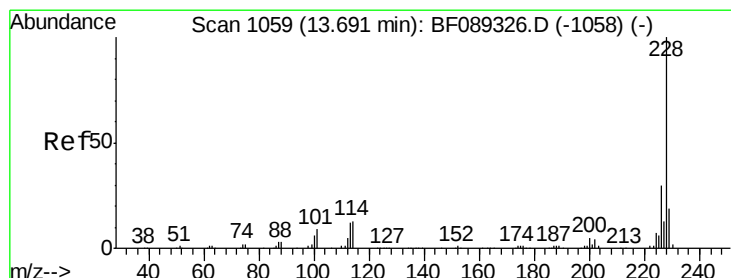
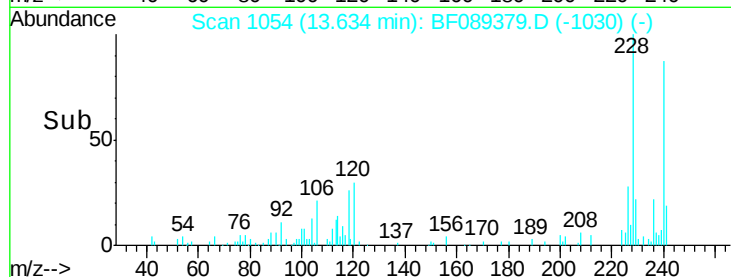
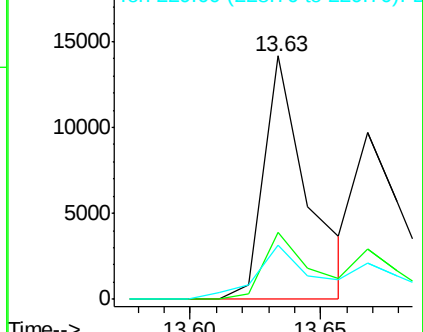
229 22.2 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 2.17 ng

RT: 13.67 min Scan# 1057

Delta R.T. -0.02 min

Lab File: BF089379.D

Acq: 28 Jul 2016 23:12

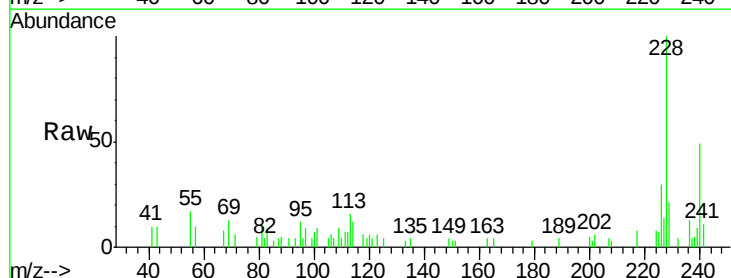
Tgt Ion:228 Resp: 12663

Ion Ratio Lower Upper

228 100

226 30.1 24.2 36.2

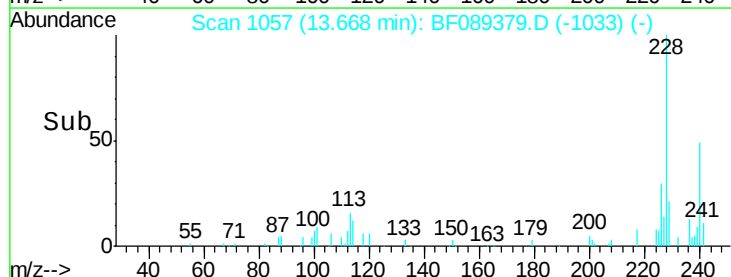
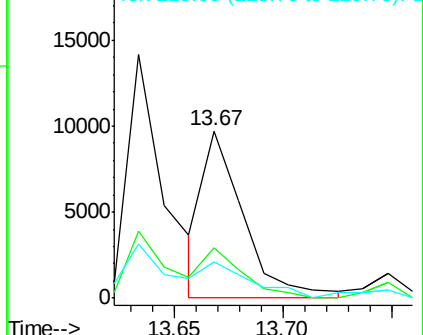
229 21.5 15.9 23.9

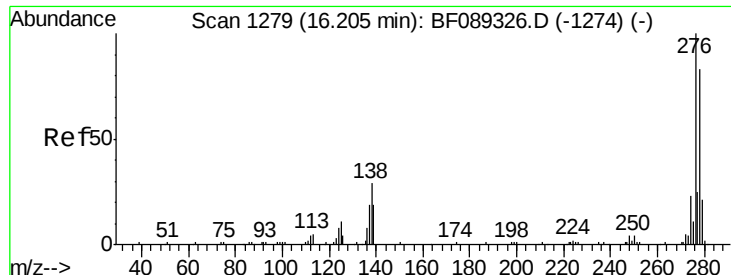


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

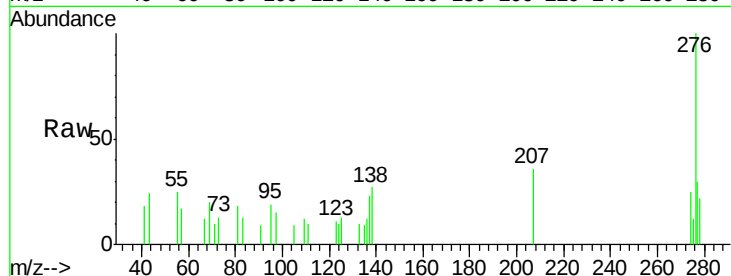




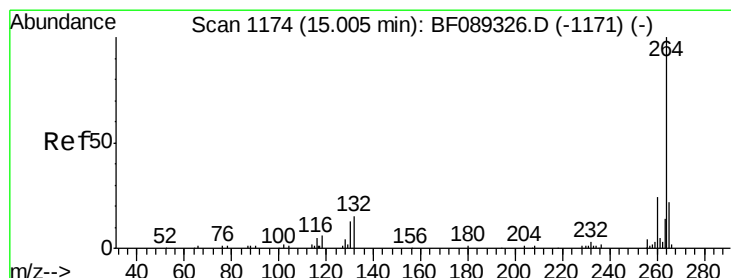
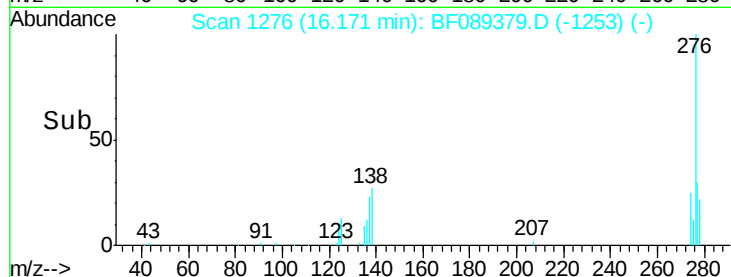
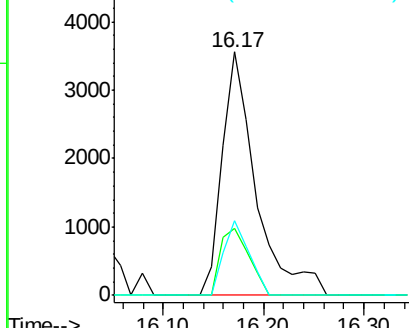
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.01 ng
 RT: 16.17 min Scan# 1276
 Delta R.T. -0.03 min
 Lab File: BF089379.D
 Acq: 28 Jul 2016 23:12

Instrument :
 BNA_F
 ClientSampleId :
 SB-40-4.0-5.0

Tgt Ion: 276 Resp: 8316
 Ion Ratio Lower Upper
 276 100
 138 23.2 23.0 34.4
 277 22.8 20.2 30.4

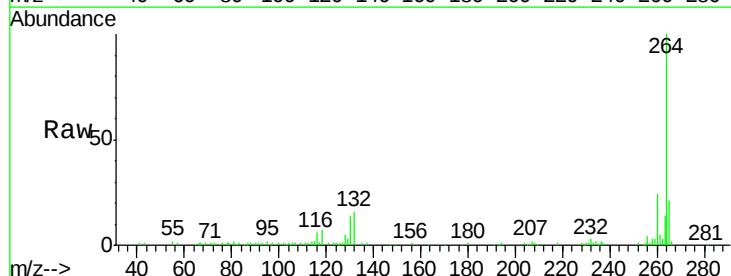


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

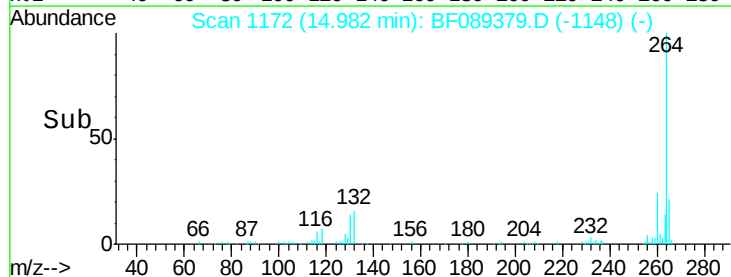
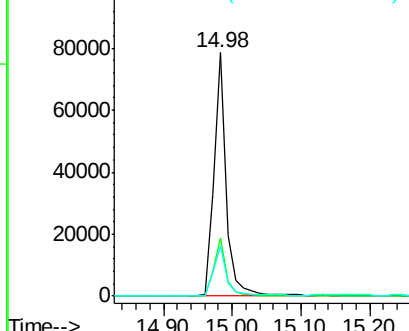


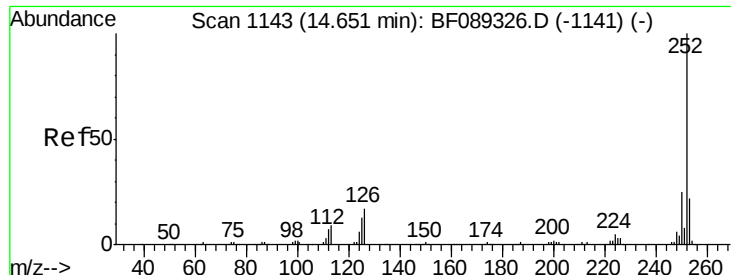
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.98 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: BF089379.D
 Acq: 28 Jul 2016 23:12

Tgt Ion: 264 Resp: 99133
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.4
 265 20.9 17.5 26.3



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

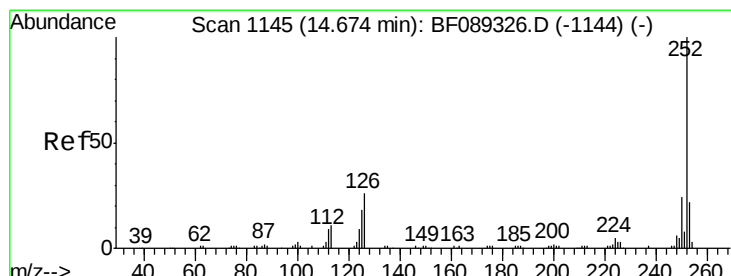
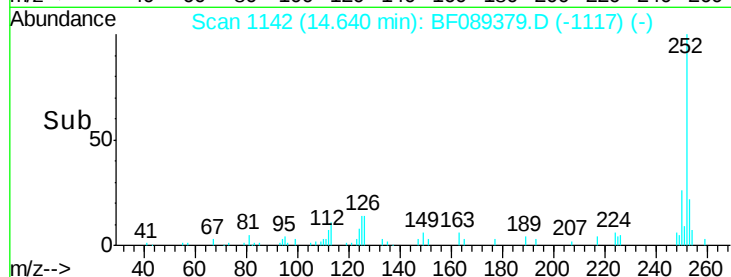
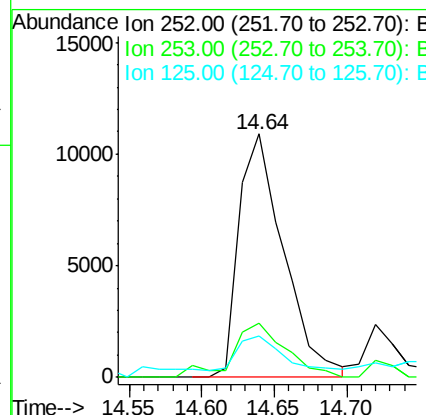
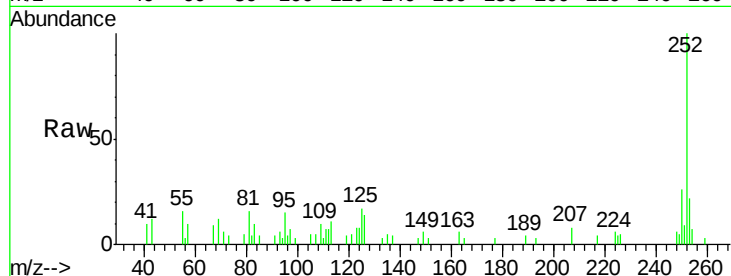




#87
Benzo(b)fluoranthene
Concen: 3.78 ng
RT: 14.64 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF089379.D
Acq: 28 Jul 2016 23:12

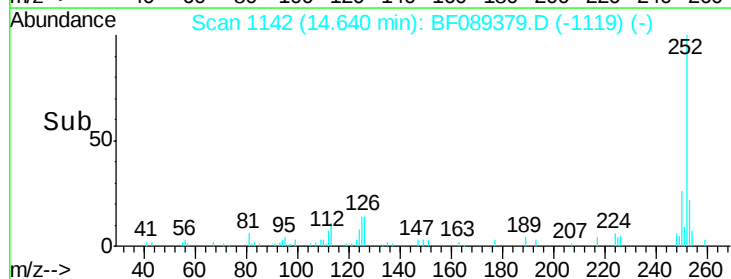
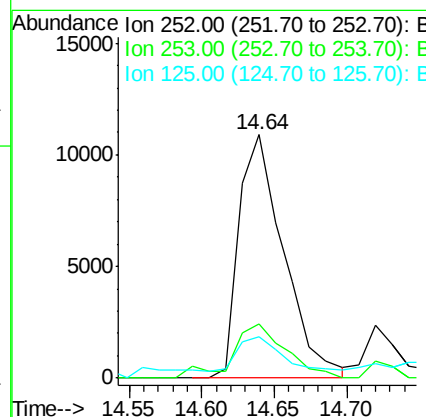
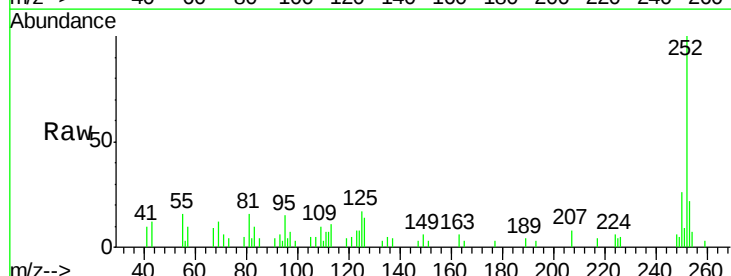
Instrument :
BNA_F
ClientSampleId :
SB-40-4.0-5.0

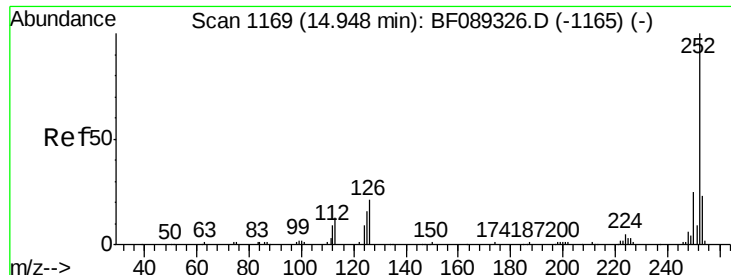
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.2	25.8
125	16.9	9.7	14.5#



#88
Benzo(k)fluoranthene
Concen: 4.12 ng
RT: 14.64 min Scan# 1142
Delta R.T. -0.03 min
Lab File: BF089379.D
Acq: 28 Jul 2016 23:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	16.9	10.7	16.1#





#89

Benzo(a)pyrene

Concen: 2.54 ng

RT: 14.93 min Scan# 1167

Delta R.T. -0.02 min

Lab File: BF089379.D

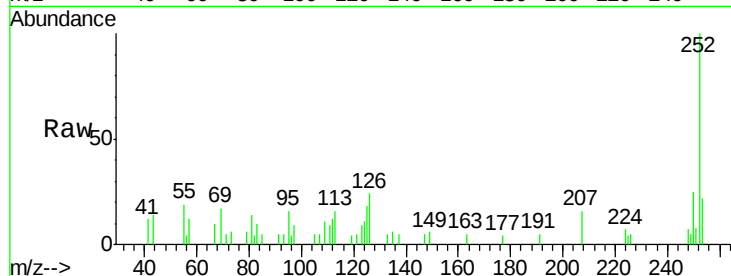
Acq: 28 Jul 2016 23:12

Instrument :

BNA_F

ClientSampleId :

SB-40-4.0-5.0



Tgt Ion:	252	Resp:	14051
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	18.0	12.4	18.6

