

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081916\
 Data File : BF089812.D
 Acq On : 19 Aug 2016 22:40
 Operator : UM/SJ
 Sample : H4518-05
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-1(0-5)

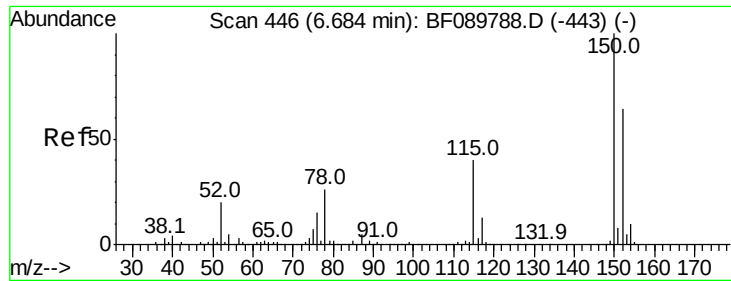
Manual Integrations
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Quant Time: Aug 22 10:09:00 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 19 14:02:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	556823	20.00	ng	0.00
21) Naphthalene-d8	7.96	136	1882913	20.00	ng	-0.01
38) Acenaphthene-d10	9.71	164	818006	20.00	ng	0.00
63) Phenanthrene-d10	11.19	188	1202701	20.00	ng	0.00
75) Chrysene-d12	13.85	240	1007957	20.00	ng	-0.02
86) Perylene-d12	15.33	264	1197167	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	2750598	84.71	ng	0.01
7) Phenol-d6	6.32	99	2877895	72.20	ng	0.00
23) Nitrobenzene-d5	7.24	82	1778665	58.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.50	330	579300	74.52	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	3642296	78.26	ng	0.00
78) Terphenyl-d14	12.78	244	1985210	44.56	ng	-0.01
Target Compounds						Qvalue
48) Acenaphthylene	9.58	152	169946	2.26	ng	97
49) Dimethylphthalate	9.44	163	784448	13.62	ng	100
51) Acenaphthene	9.75	154	231440	4.65	ng	98
54) Dibenzofuran	9.92	168	157919	2.53	ng	# 90
57) Fluorene	10.26	166	198929	3.99	ng	98
70) Phenanthrene	11.21	178	3065276	50.46	ng	98
71) Anthracene	11.27	178	857823	13.89	ng	97
72) Carbazole	11.42	167	198899	3.59	ng	99
74) Fluoranthene	12.40	202	3502106	60.61	ng	93
77) Pyrene	12.63	202	4187958	51.02	ng	94
79) Butylbenzylphthalate	13.27	149	1401962	37.82	ng	# 83
80) Benzo(a)anthracene	13.84	228	2563400	44.41	ng	97
82) Chrysene	13.87	228	1561375	31.55	ng	99
83) Bis(2-ethylhexyl)phthalate	13.87	149	3146521	61.62	ng	96
85) Indeno(1,2,3-cd)pyrene	16.61	276	1261816	19.98	ng	94
87) Benzo(b)fluoranthene	14.94	252	2429049m	36.88	ng	
88) Benzo(k)fluoranthene	14.95	252	1061413m	17.76	ng	
89) Benzo(a)pyrene	15.27	252	2107498	33.81	ng	96
90) Dibenzo(a,h)anthracene	16.62	278	344431	5.09	ng	93
91) Benzo(a,h,i)perylene	16.99	276	1166545	16.37	ng	96

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



#1

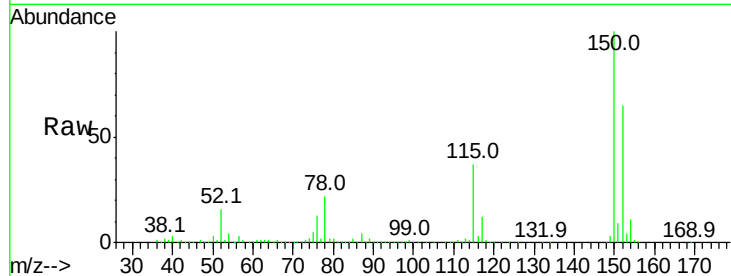
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.68 min Scan# 446
Delta R.T. 0.00 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Instrument :
BNA_F
ClientSampled :
B-1(0-5)

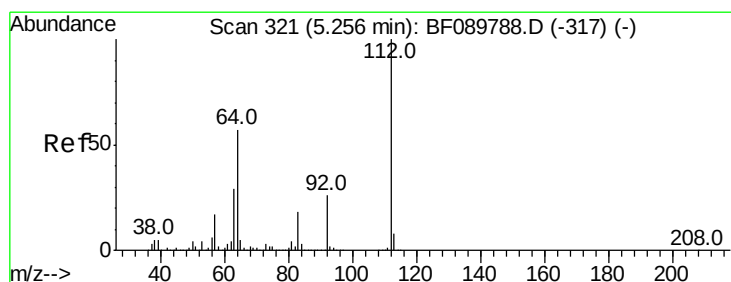
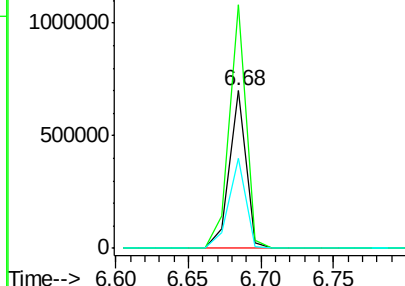
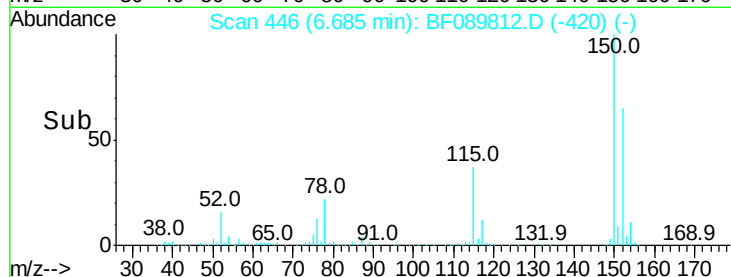
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	125.3	187.9
115	56.8	40.9	61.3

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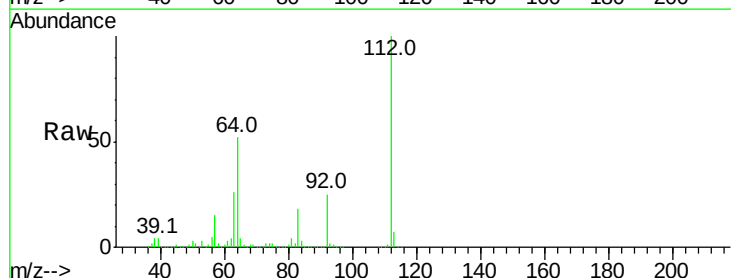
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



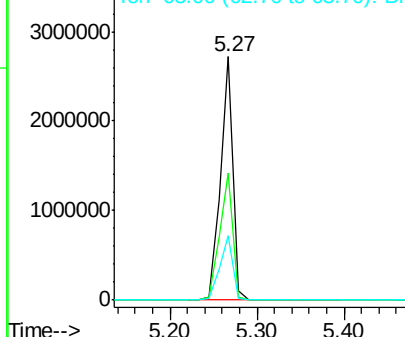
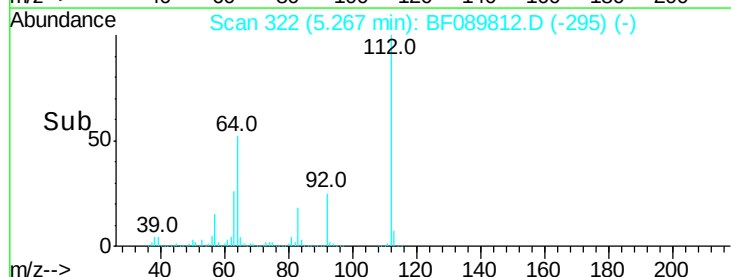
#5

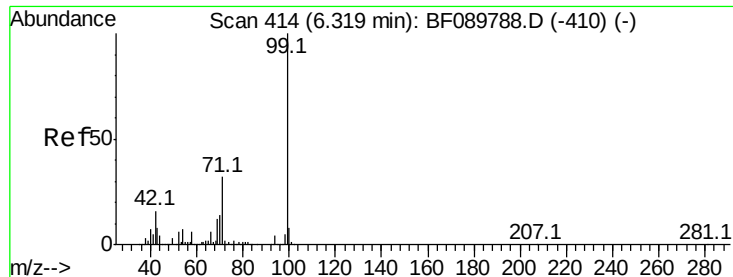
2-Fluorophenol
Concen: 84.71 ng
RT: 5.27 min Scan# 322
Delta R.T. 0.01 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.4	45.0	67.4
63	26.4	23.1	34.7



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: 72.20 ng

RT: 6.32 min Scan# 414

Delta R.T. 0.00 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)

Tot Ion: 99 Resp: 2877895

Ion Ratio Lower Upper

99 100

42 15.3 12.2 18.4

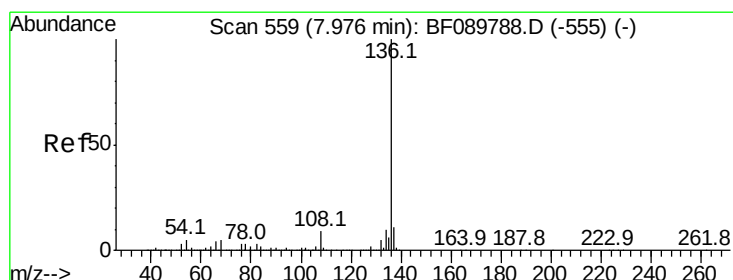
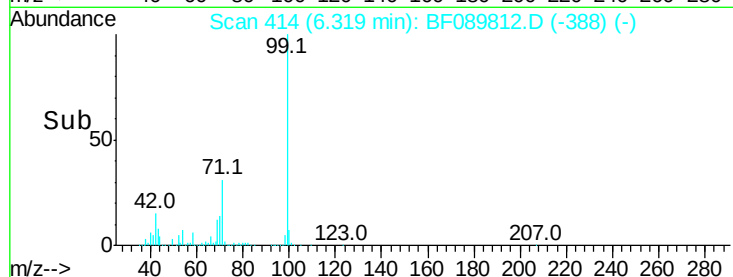
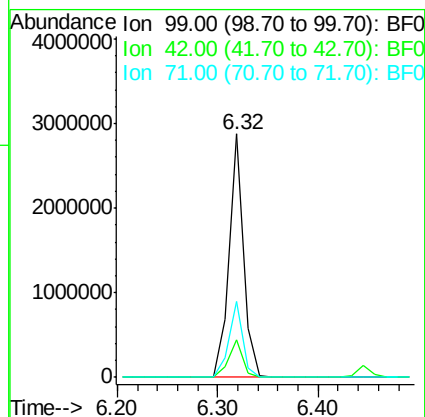
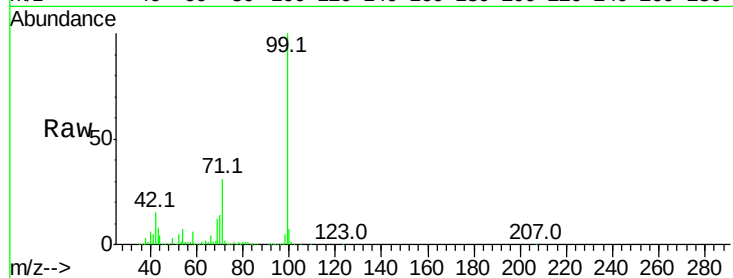
71 31.0 23.8 35.8

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.01 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Tgt Ion: 136 Resp: 1882913

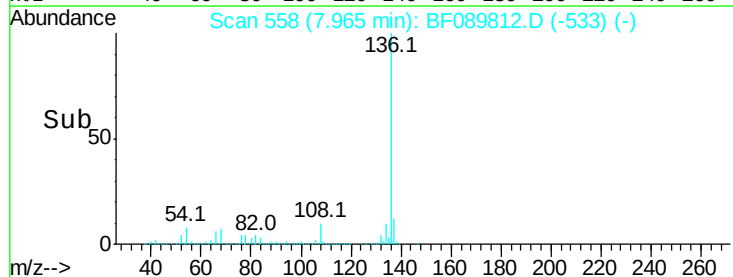
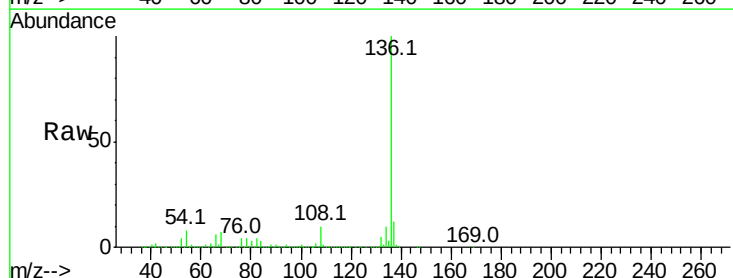
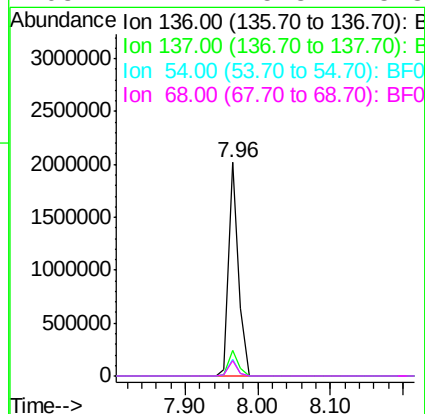
Ion Ratio Lower Upper

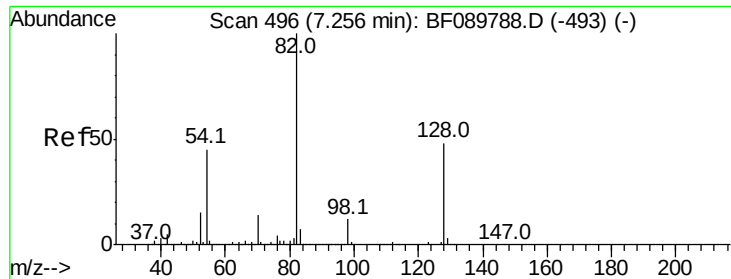
136 100

137 11.8 9.2 13.8

54 8.1 7.2 10.8

68 7.1 5.8 8.8





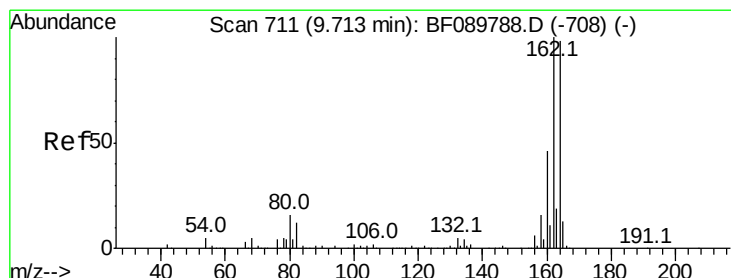
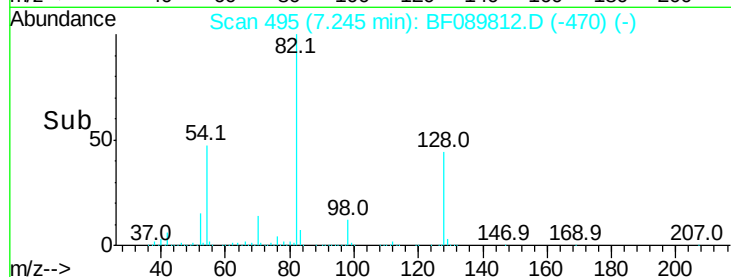
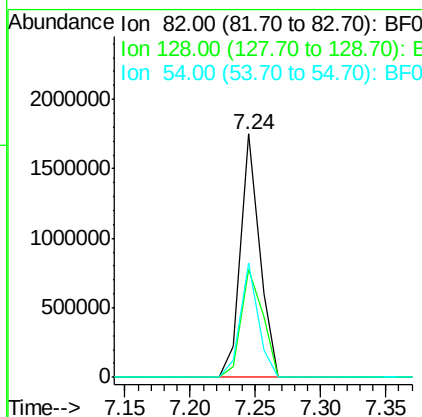
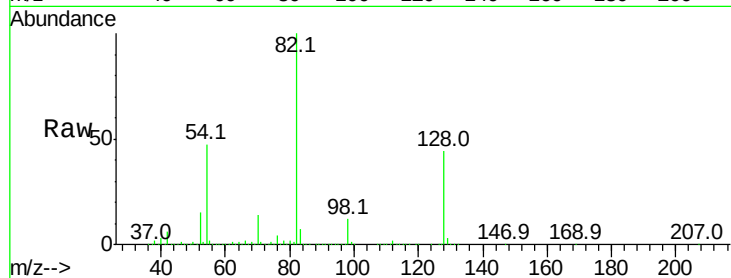
#23
 Nitrobenzene-d5
 Concen: 58.69 ng
 RT: 7.24 min Scan# 495
 Delta R.T. -0.01 min
 Lab File: BF089812.D
 Acq: 19 Aug 2016 22:40

Instrument :
 BNA_F
 ClientSampled :
 B-1(0-5)

Tot Ion	82	Resp	1778665
Ion Ratio	100	Lower	Upper
128	44.3	34.4	51.6
54	46.8	40.3	60.5

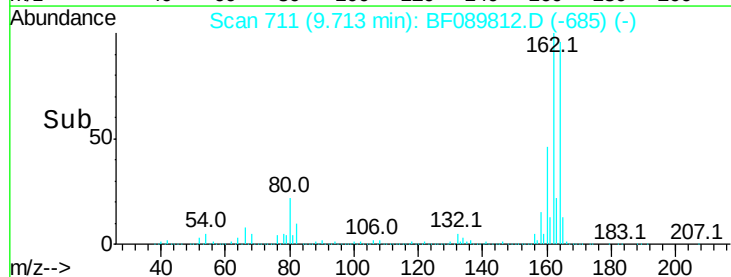
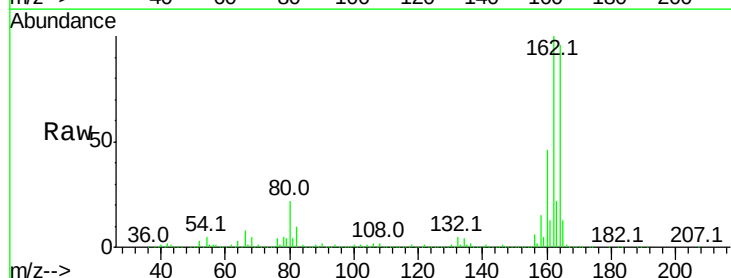
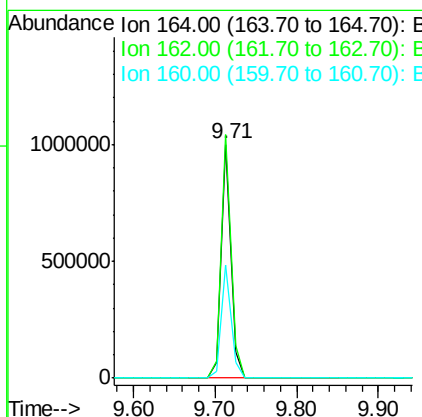
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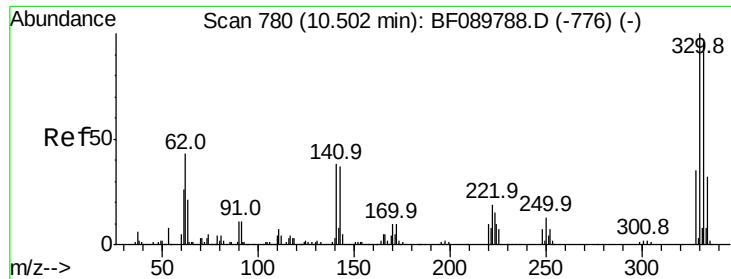
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.71 min Scan# 711
 Delta R.T. 0.00 min
 Lab File: BF089812.D
 Acq: 19 Aug 2016 22:40

Tgt Ion	164	Resp	818006
Ion Ratio	100	Lower	Upper
162	104.1	81.4	122.2
160	48.1	37.8	56.6





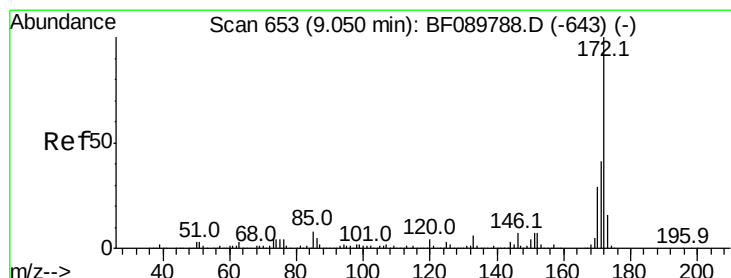
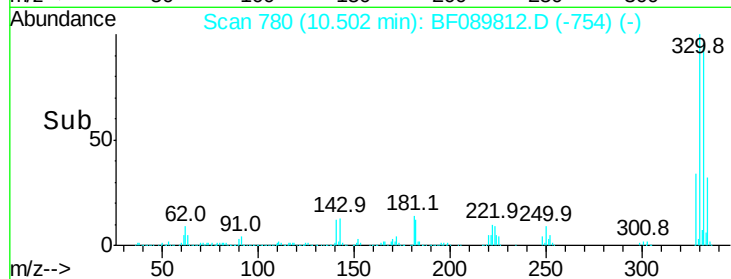
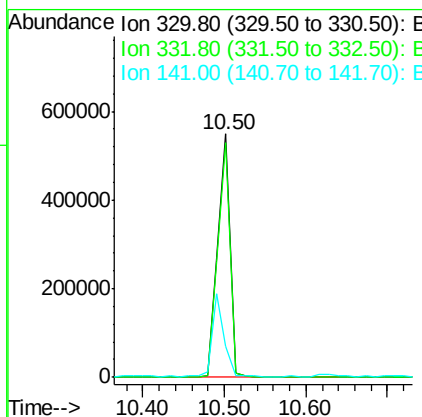
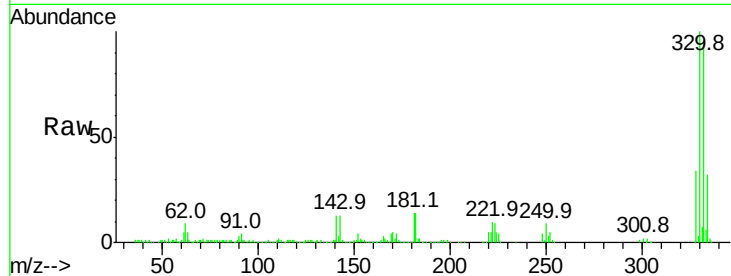
#41
 2,4,6-Tribromophenol
 Concen: 74.52 ng
 RT: 10.50 min Scan# 780
 Delta R.T. 0.00 min
 Lab File: BF089812.D
 Acq: 19 Aug 2016 22:40

Instrument :
 BNA_F
 ClientSampleId :
 B-1(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	579300		
332	96.6	76.7	115.1	
141	32.8	30.2	45.2	

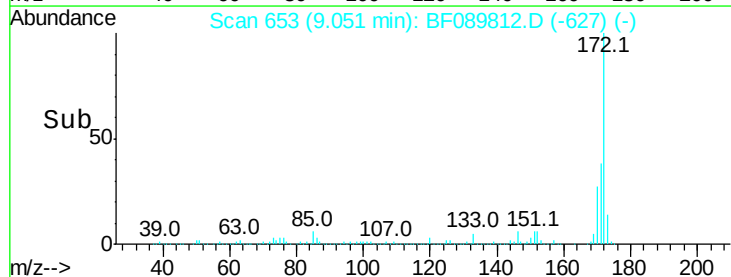
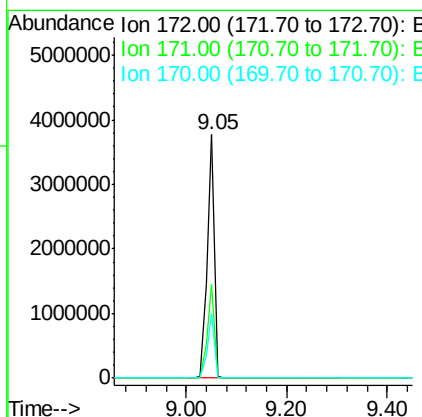
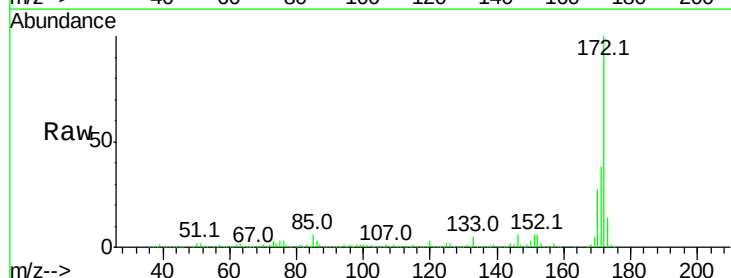
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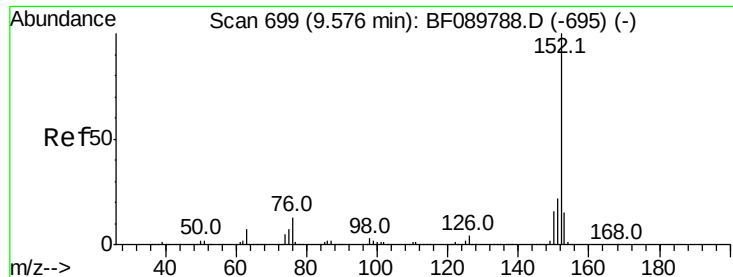
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#44
 2-Fluorobiphenyl
 Concen: 78.26 ng
 RT: 9.05 min Scan# 653
 Delta R.T. 0.00 min
 Lab File: BF089812.D
 Acq: 19 Aug 2016 22:40

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	3642296		
171	38.5	30.5	45.7	
170	26.7	20.6	31.0	





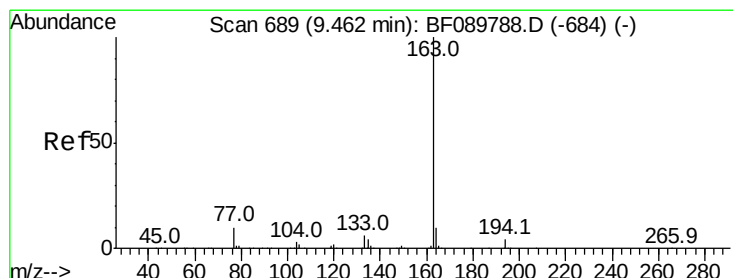
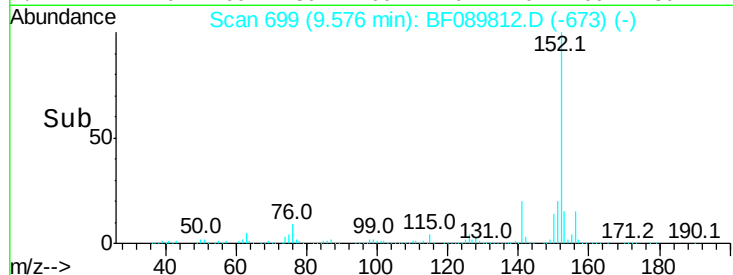
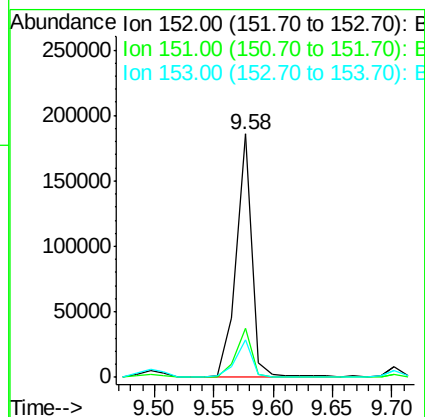
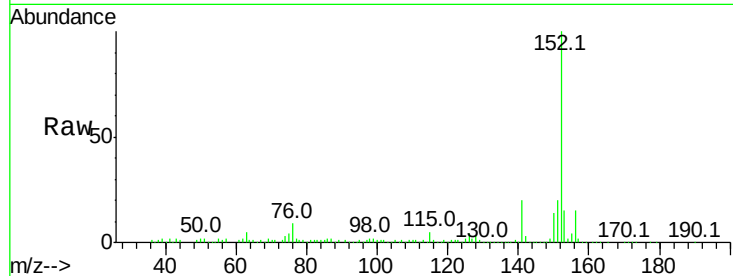
#48
Acenaphthylene
Concen: 2.26 ng
RT: 9.58 min Scan# 699
Delta R.T. 0.00 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Instrument :
BNA_F
ClientSampleId :
B-1(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
152	100	169946		
151	20.2		17.1	25.7
153	15.3		11.2	16.8

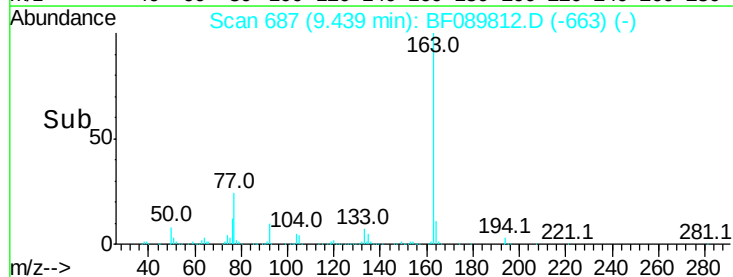
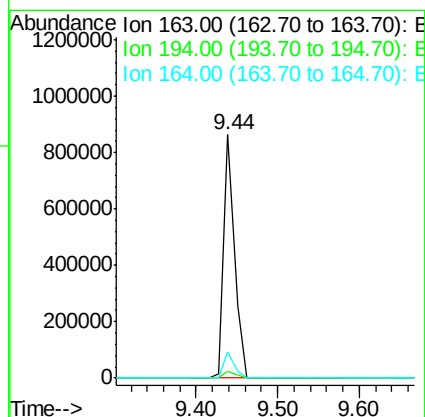
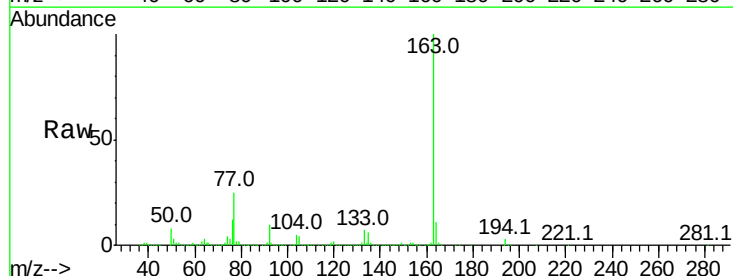
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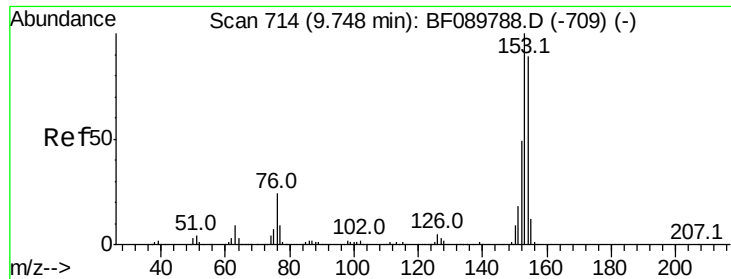
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#49
Dimethylphthalate
Concen: 13.62 ng
RT: 9.44 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	784448		
194	2.9		2.6	3.8
164	10.7		8.6	12.8





#51

Acenaphthene

Concen: 4.65 ng

RT: 9.75 min Scan# 714

Delta R.T. 0.00 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Instrument :

BNA_F

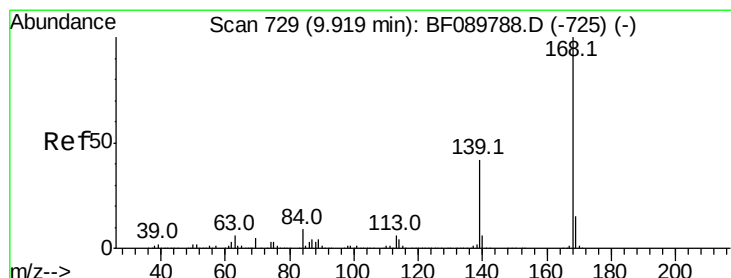
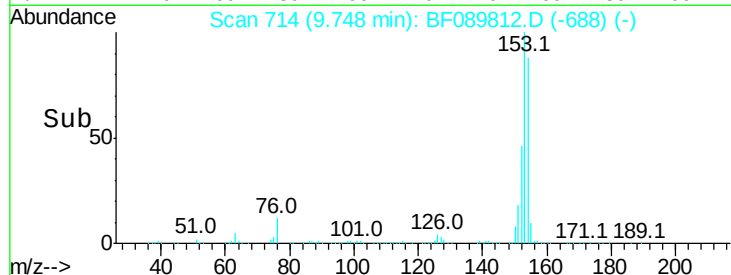
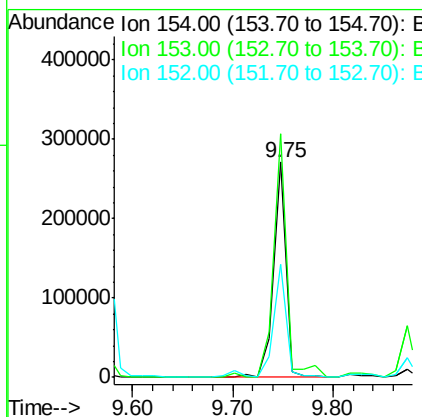
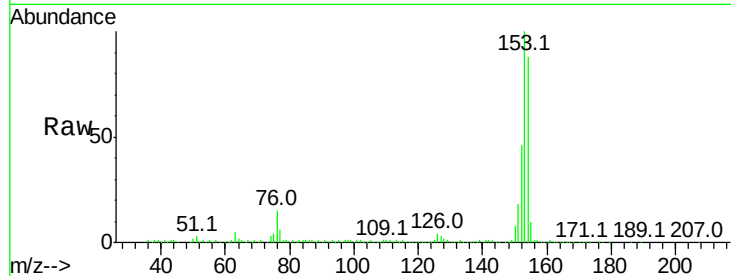
ClientSampleId :

B-1(0-5)

Tot Ion:	154	Resp:	231440
Ion Ratio	Lower	Upper	
154	100		
153	113.3	90.5	135.7
152	52.6	44.6	67.0

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#54

Dibenzofuran

Concen: 2.53 ng

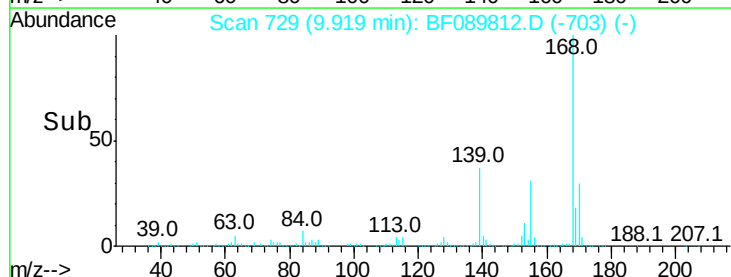
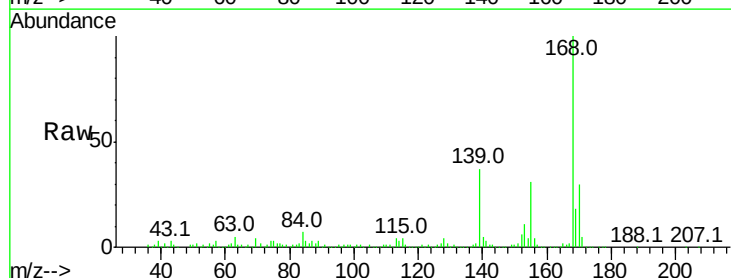
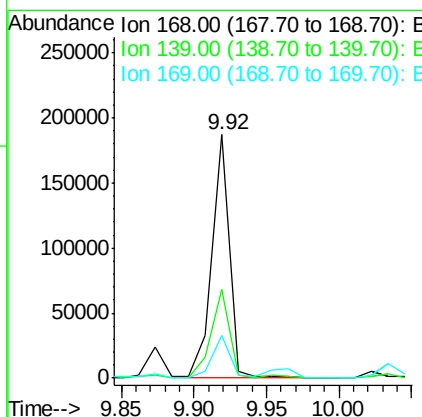
RT: 9.92 min Scan# 729

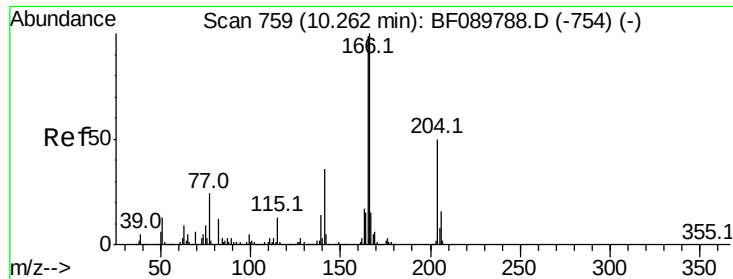
Delta R.T. 0.00 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Tgt Ion:	168	Resp:	157919
Ion Ratio	Lower	Upper	
168	100		
139	36.6	34.6	52.0
169	17.7	11.5	17.3#





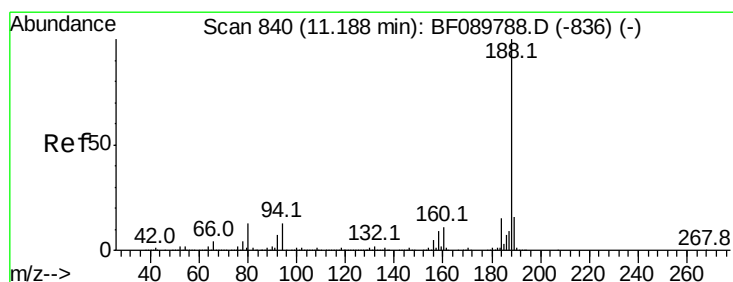
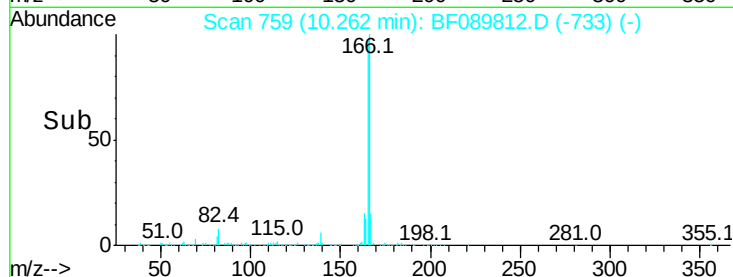
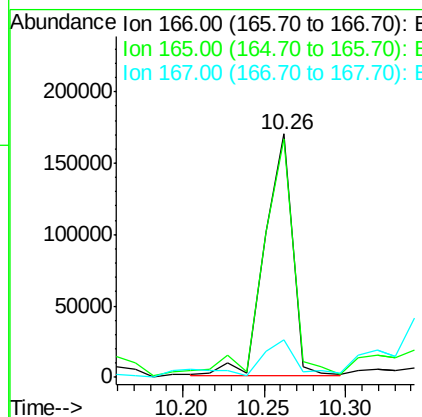
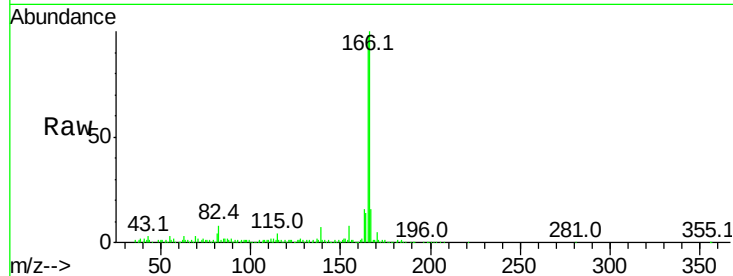
#57
Fluorene
Concen: 3.99 ng
RT: 10.26 min Scan# 759
Delta R.T. 0.00 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Instrument :
BNA_F
ClientSampleId :
B-1(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
166	100	198929		
165	98.2	80.2	120.4	
167	15.6	11.3	16.9	

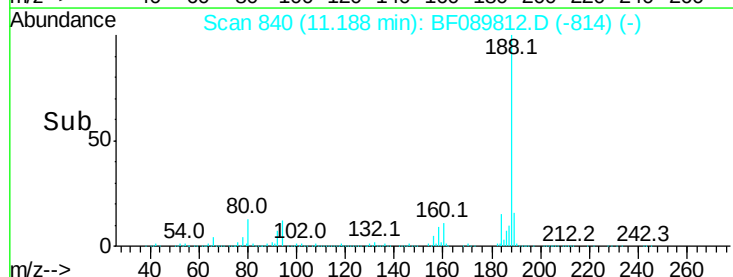
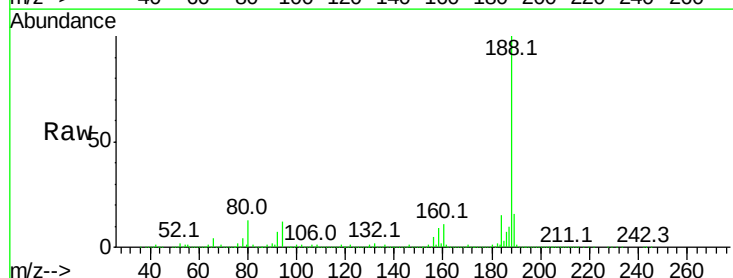
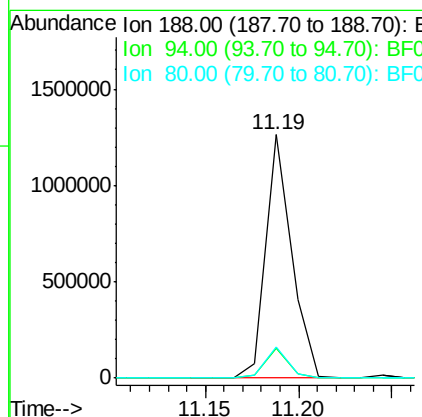
Manual Integrations
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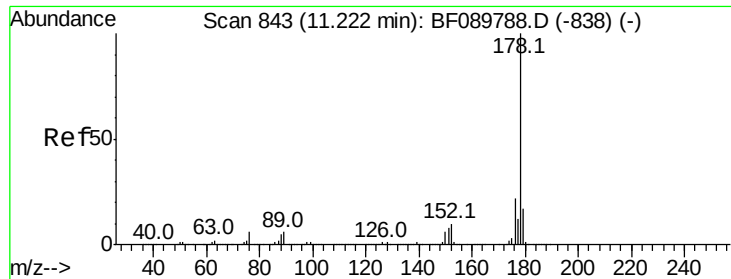
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. 0.00 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	1202701		
94	12.2	10.2	15.2	
80	12.7	10.9	16.3	





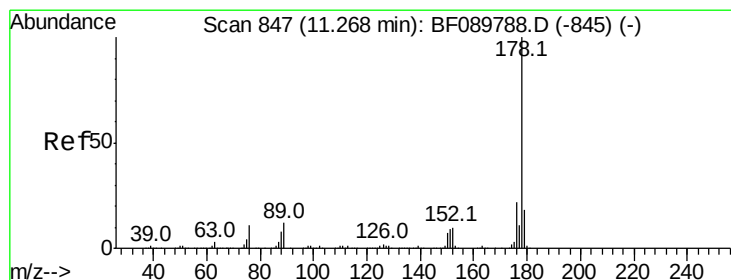
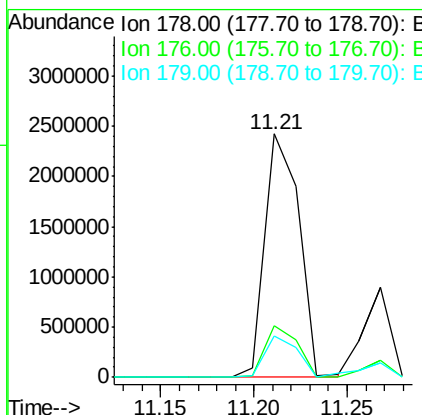
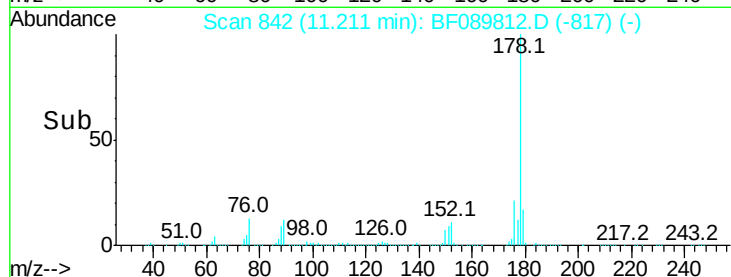
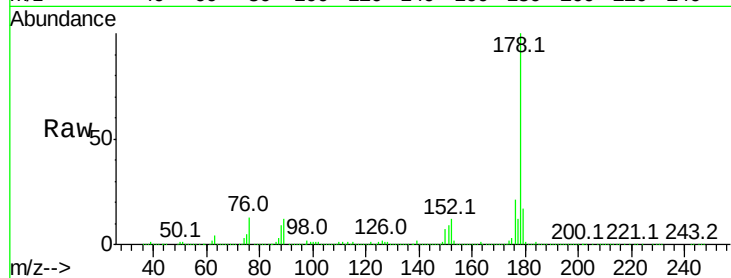
#70
Phenanthrene
Concen: 50.46 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.01 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Instrument :
BNA_F
ClientSampleId :
B-1(0-5)

Tot Ion:178 Resp: 3065276
Ion Ratio Lower Upper
178 100
176 20.9 16.4 24.6
179 16.8 12.5 18.7

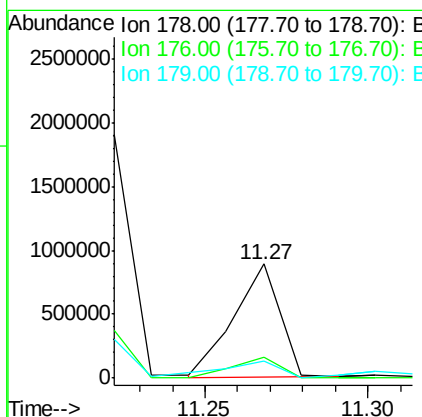
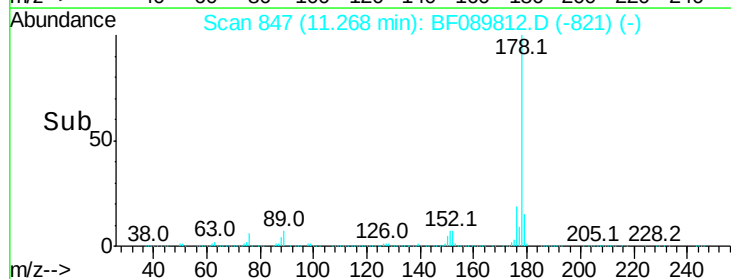
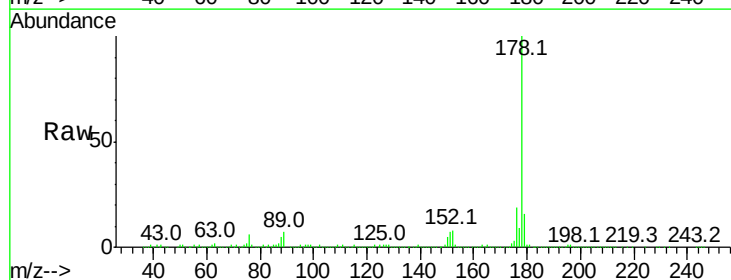
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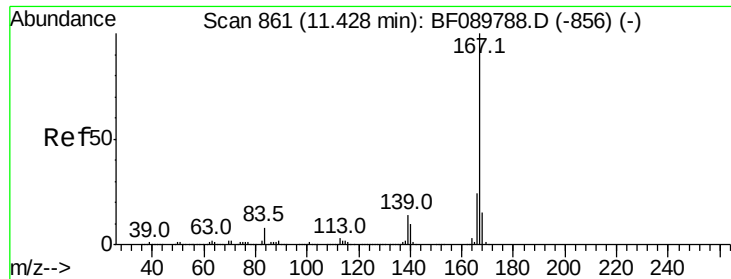
sohil
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#71
Anthracene
Concen: 13.89 ng
RT: 11.27 min Scan# 847
Delta R.T. 0.00 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Tgt Ion:178 Resp: 857823
Ion Ratio Lower Upper
178 100
176 18.9 16.4 24.6
179 15.5 13.1 19.7





#72

Carbazole

Concen: 3.59 ng

RT: 11.42 min Scan# 860

Delta R.T. -0.01 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Instrument :

BNA_F

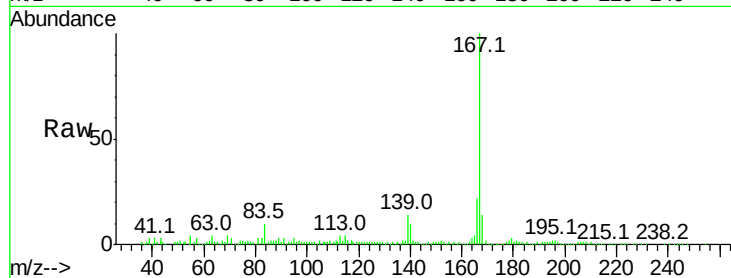
ClientSampleId :

B-1(0-5)

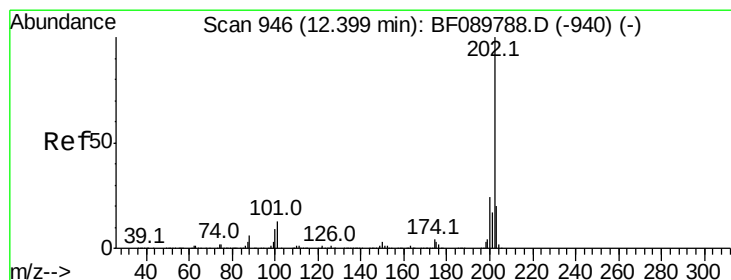
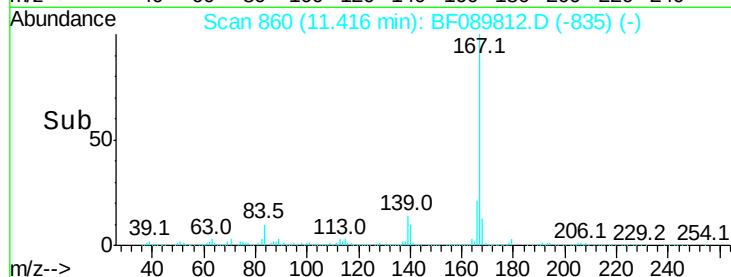
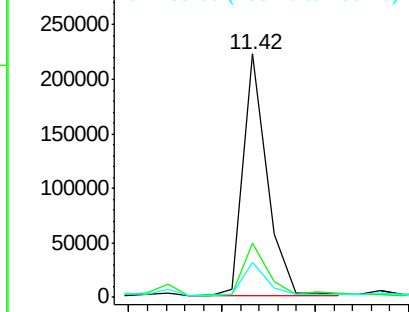
Tot Ion:	167	Resp:	198899
Ion Ratio	Lower	Upper	
167	100		
166	22.1	17.9	26.9
139	14.5	12.4	18.6

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 60.61 ng

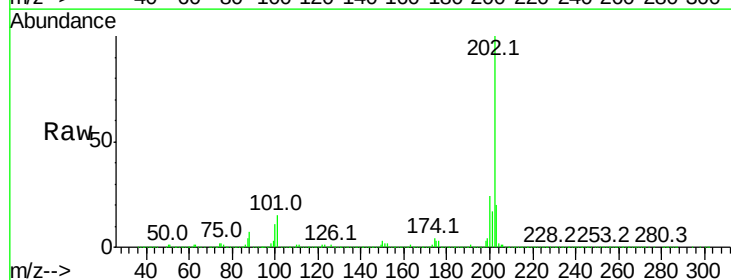
RT: 12.40 min Scan# 946

Delta R.T. 0.00 min

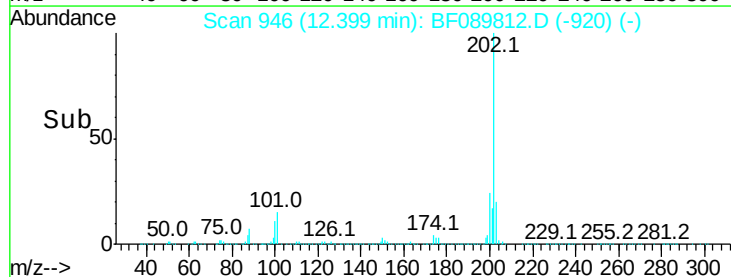
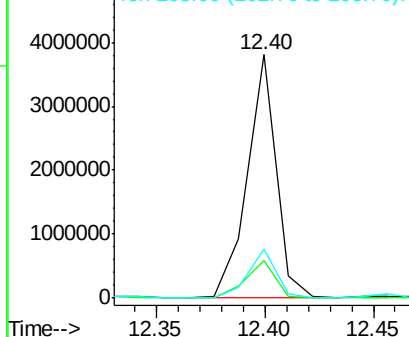
Lab File: BF089812.D

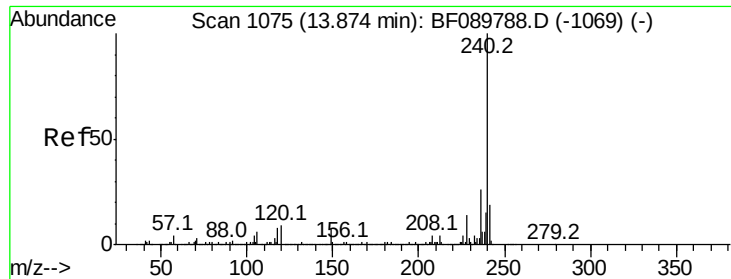
Acq: 19 Aug 2016 22:40

Tgt Ion:	202	Resp:	3502106
Ion Ratio	Lower	Upper	
202	100		
101	15.3	0.0	31.2
203	20.0	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.02 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Instrument :

BNA_F

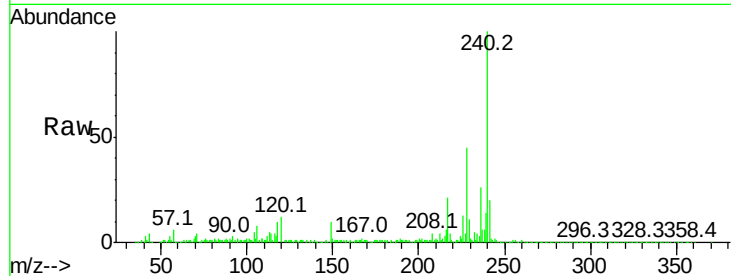
ClientSampleId :

B-1(0-5)

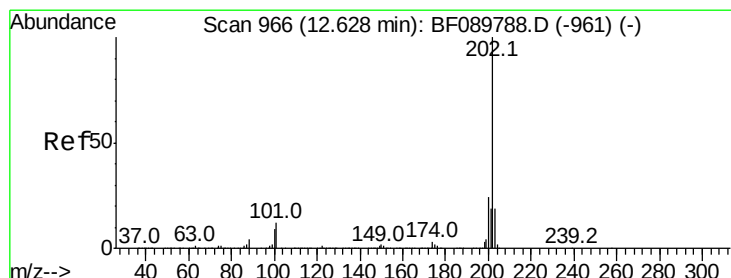
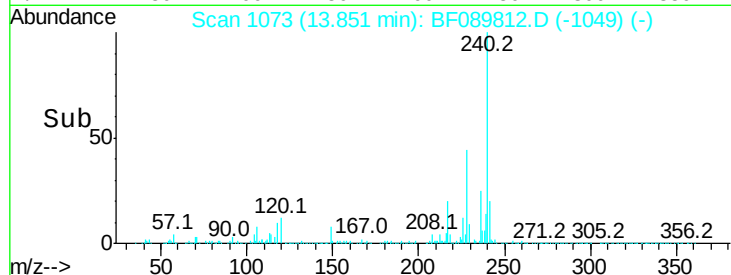
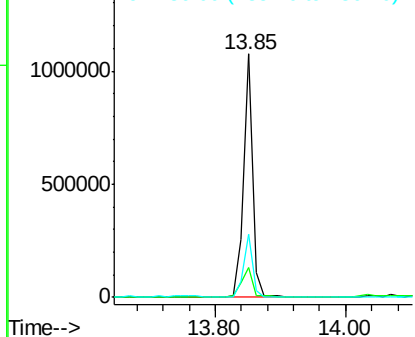
Tot Ion	Ratio	Lower	Upper
240	100		
120	12.3	8.3	12.5
236	26.2	21.3	31.9

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



#77

Pyrene

Concen: 51.02 ng

RT: 12.63 min Scan# 966

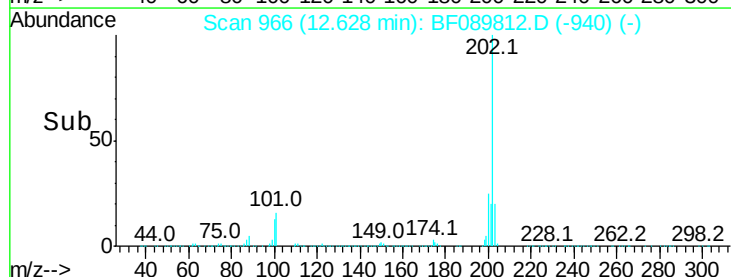
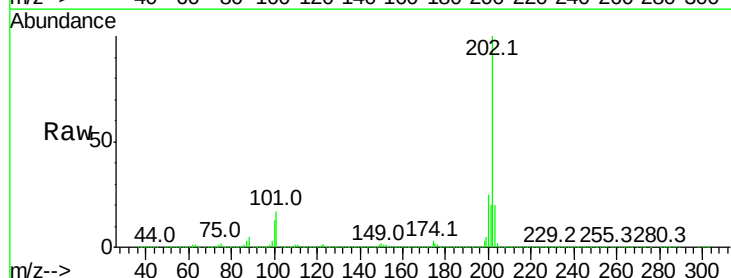
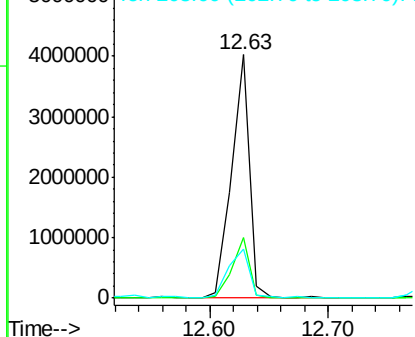
Delta R.T. 0.00 min

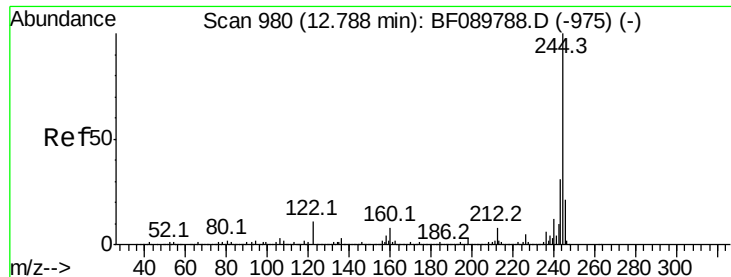
Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Tgt Ion	Ratio	Lower	Upper
202	100		
200	24.9	17.8	26.6
203	20.2	14.2	21.4

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: 44.56 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Instrument :

BNA_F

ClientSampled :

B-1(0-5)

Tot Ion:244 Resp: 1985210

Ion Ratio Lower Upper

244 100

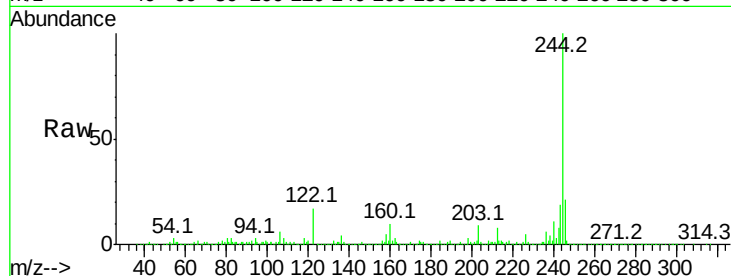
212 7.9 6.3 9.5

122 17.0 12.0 18.0

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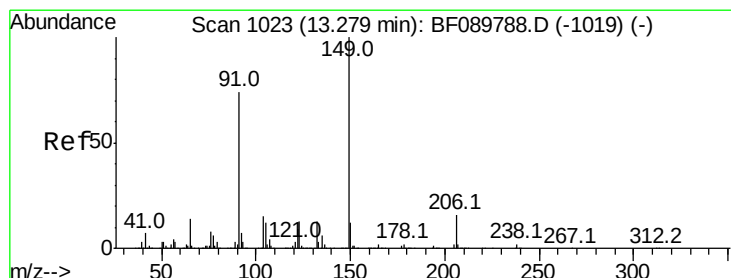
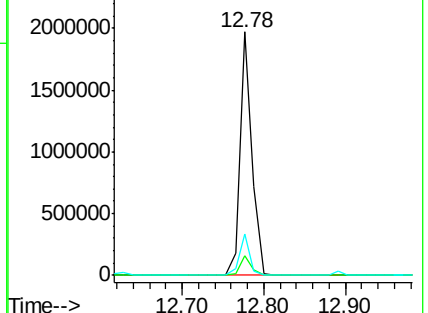
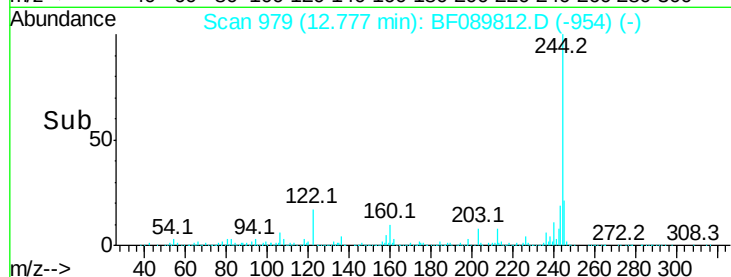
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#79

Butylbenzylphthalate

Concen: 37.82 ng

RT: 13.27 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

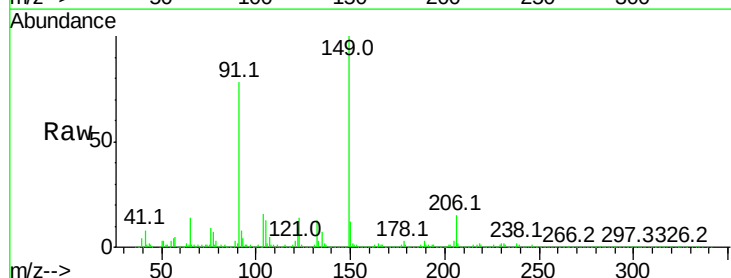
Tgt Ion:149 Resp: 1401962

Ion Ratio Lower Upper

149 100

91 78.5 50.7 76.1#

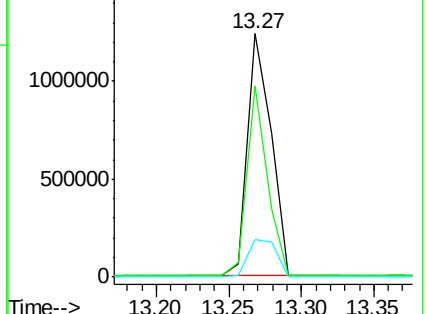
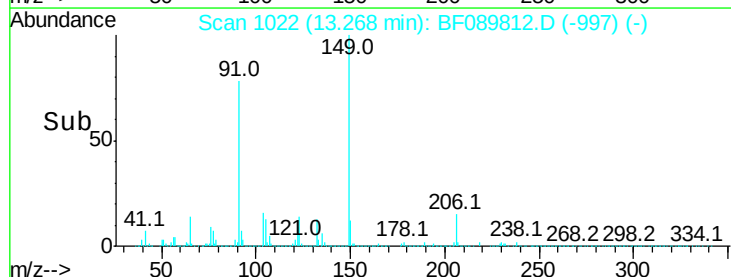
206 15.4 15.5 23.3#

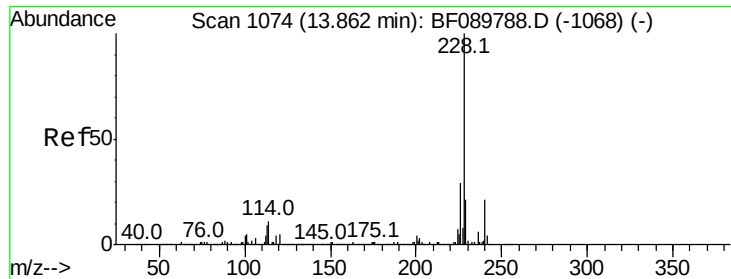


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E





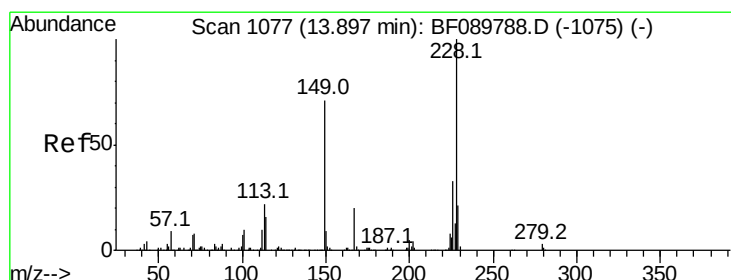
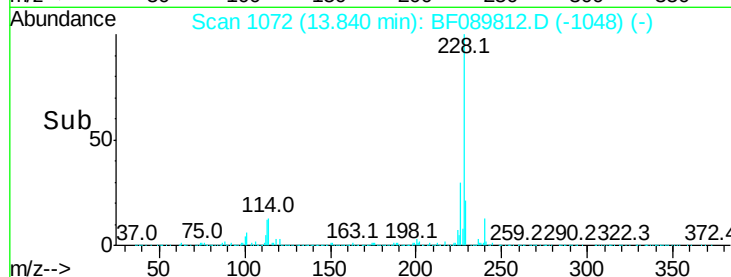
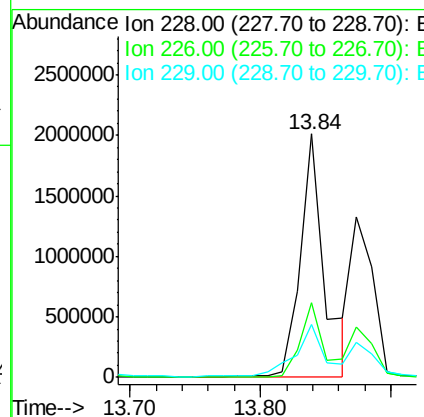
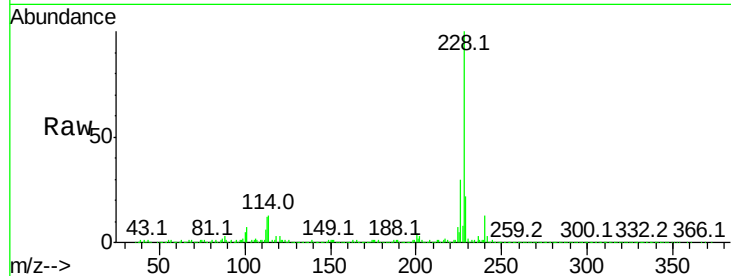
#80
Benzo(a)anthracene
Concen: 44.41 ng
RT: 13.84 min Scan# 1072
Delta R.T. -0.02 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Instrument :
BNA_F
ClientSampled :
B-1(0-5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.2	34.8
229	21.6	16.2	24.4

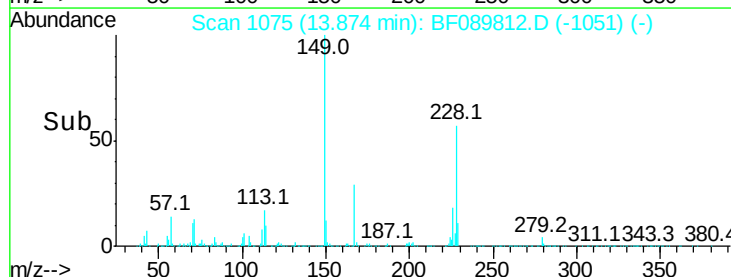
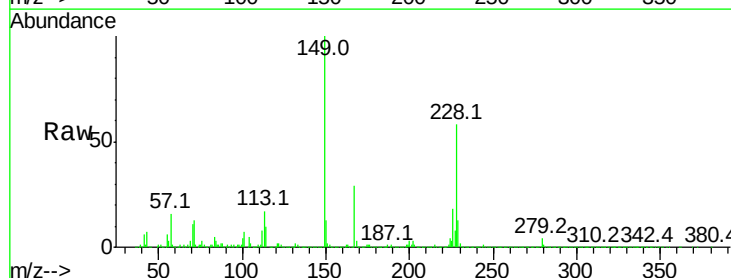
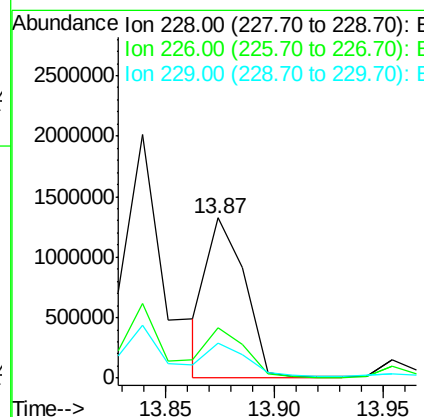
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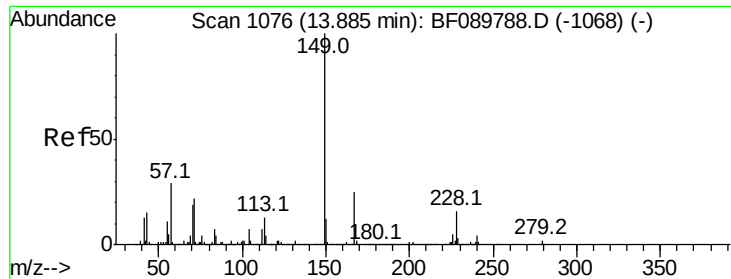
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#82
Chrysene
Concen: 31.55 ng
RT: 13.87 min Scan# 1075
Delta R.T. -0.02 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.4	38.0
229	22.2	16.5	24.7





#83

Bis(2-ethylhexyl)phthalate

Concen: 61.62 ng

RT: 13.87 min Scan# 1075

Delta R.T. -0.01 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)

Tot Ion:149 Resp: 3146521

Ion	Ratio	Lower	Upper
149	100		
167	28.8	21.2	31.8
279	4.3	2.9	4.3

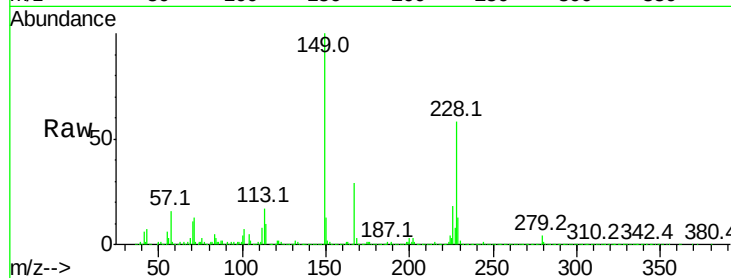
149 100

167 28.8 21.2 31.8

279 4.3 2.9 4.3

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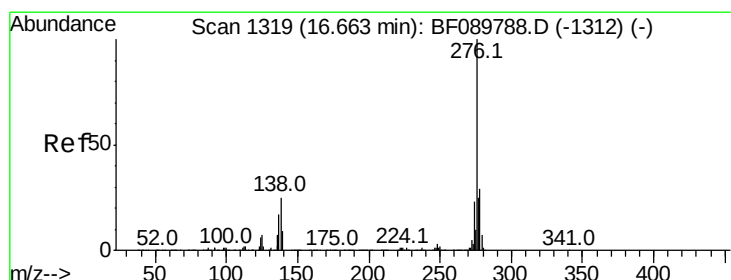
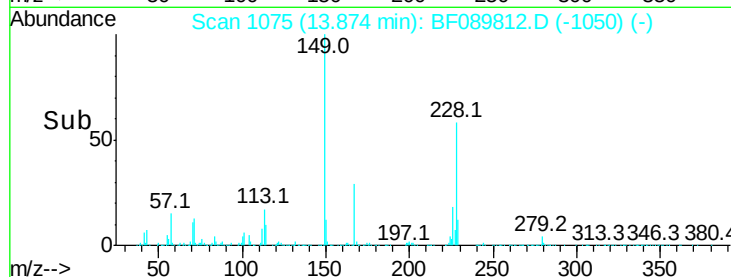
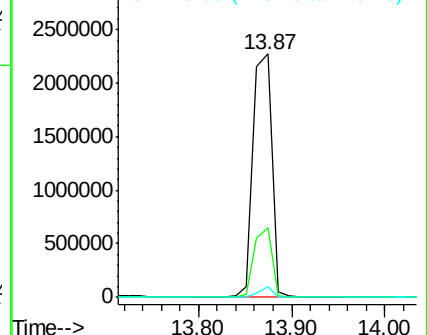


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 19.98 ng

RT: 16.61 min Scan# 1314

Delta R.T. -0.06 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

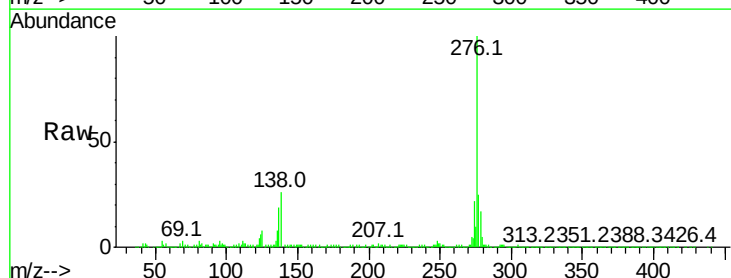
Tgt Ion:276 Resp: 1261816

Ion	Ratio	Lower	Upper
276	100		
138	26.5	24.6	36.8
277	28.1	20.4	30.6

276 100

138 26.5 24.6 36.8

277 28.1 20.4 30.6

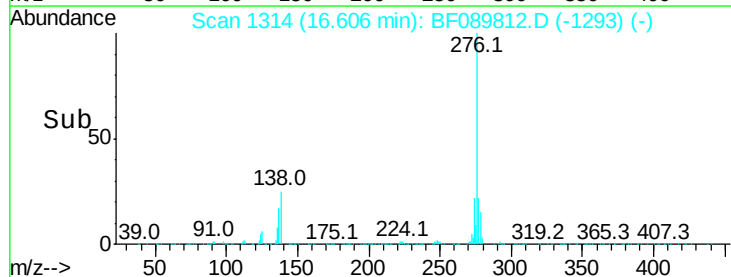
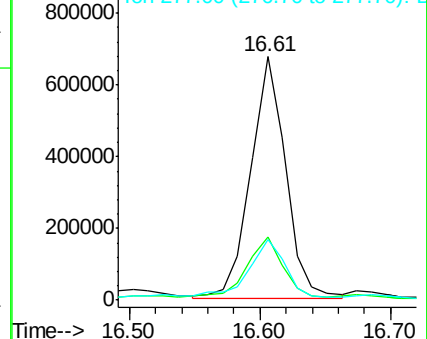


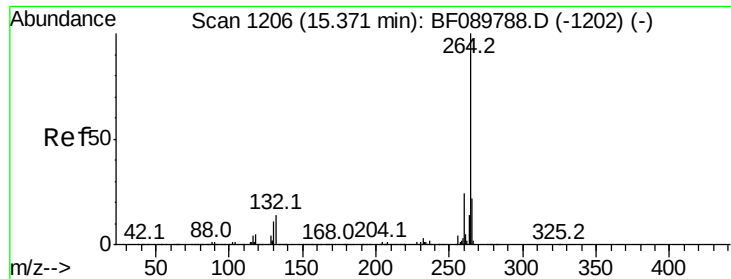
Abundance

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

Pervlene-d12

Concen: 20.00 ng

RT: 15.33 min Scan# 1202

Delta R.T. -0.05 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)

Tot Ion:264 Resp: 1197167

Ion Ratio Lower Upper

264 100

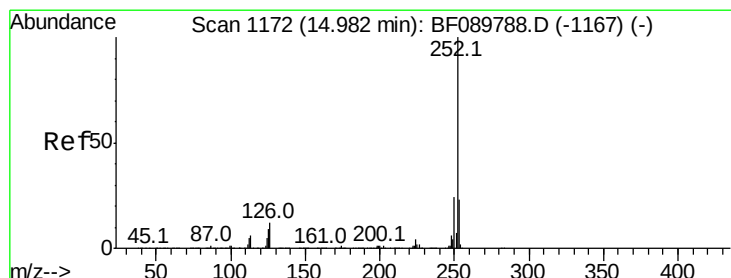
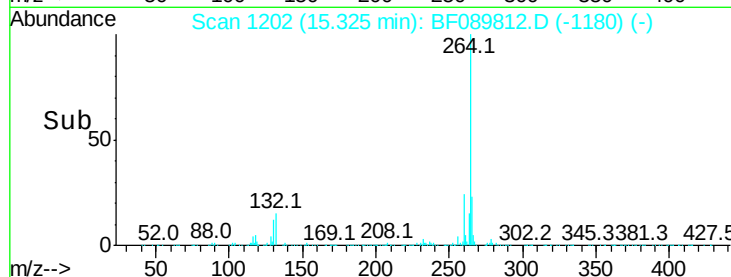
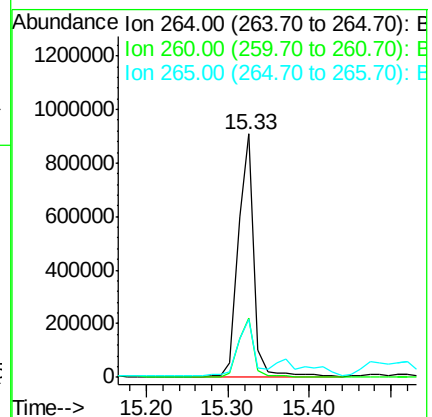
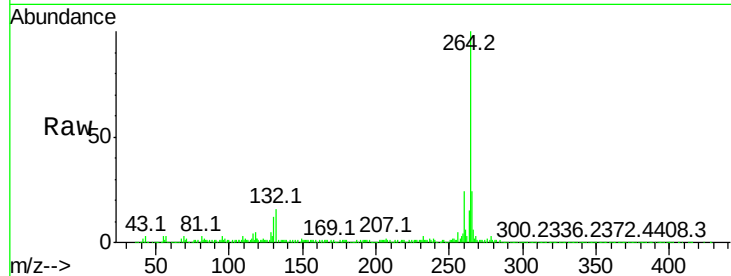
260 24.4 20.2 30.2

265 23.8 17.4 26.2

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#87

Benzo(b)fluoranthene

Concen: 36.88 ng m

RT: 14.94 min Scan# 1168

Delta R.T. -0.05 min

Lab File: BF089812.D

Acq: 19 Aug 2016 22:40

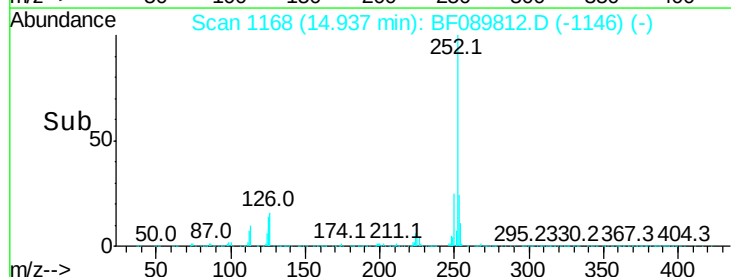
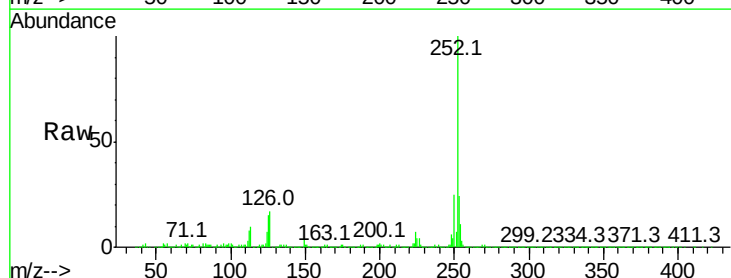
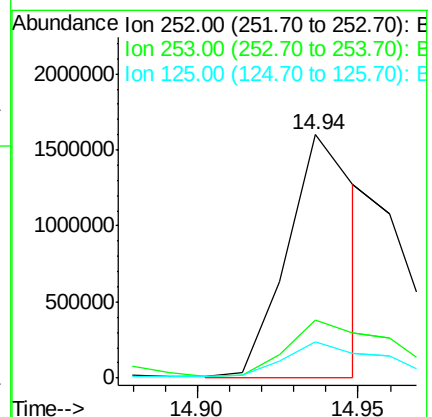
Tgt Ion:252 Resp: 2429049

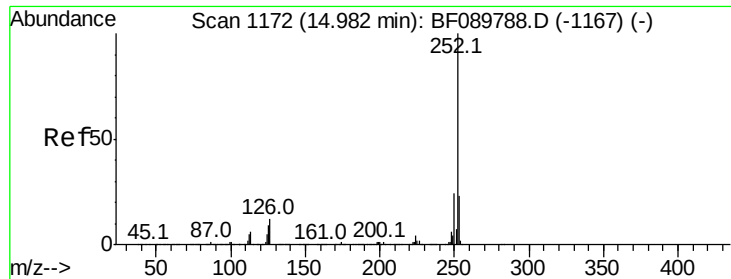
Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.8

125 14.7 11.4 17.2





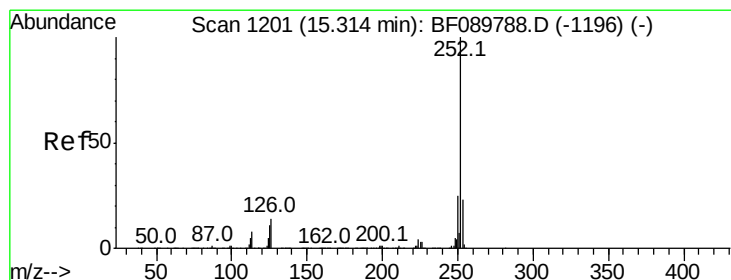
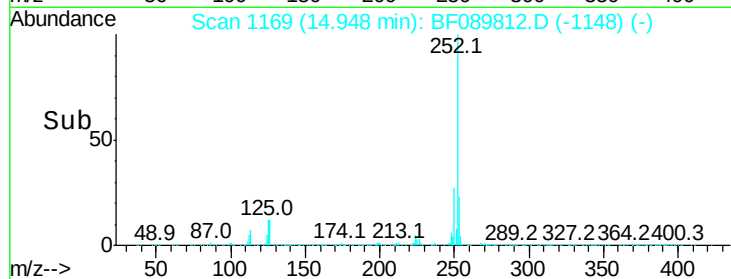
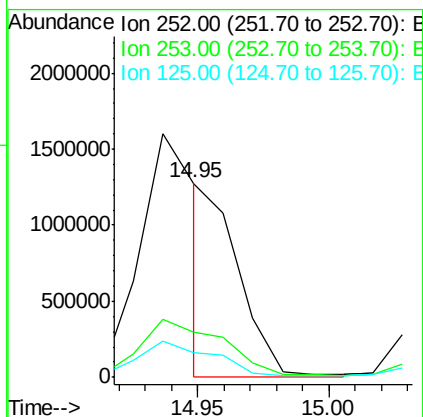
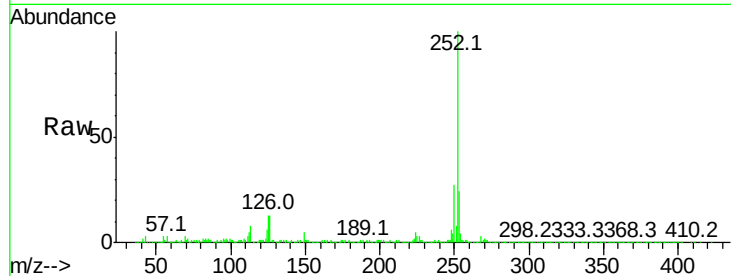
#88
Benzo(k)fluoranthene
Concen: 17.76 ng m
RT: 14.95 min Scan# 1169
Delta R.T. -0.06 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Instrument :
BNA_F
ClientSampleId :
B-1(0-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	13.1	9.8	14.6

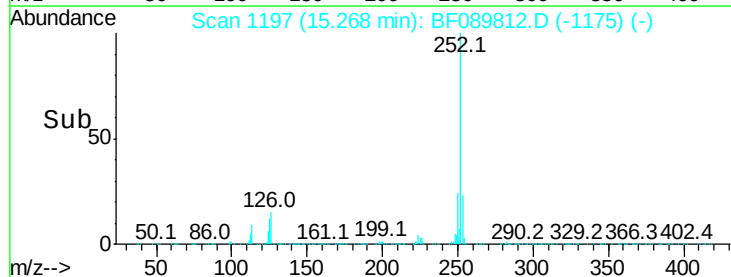
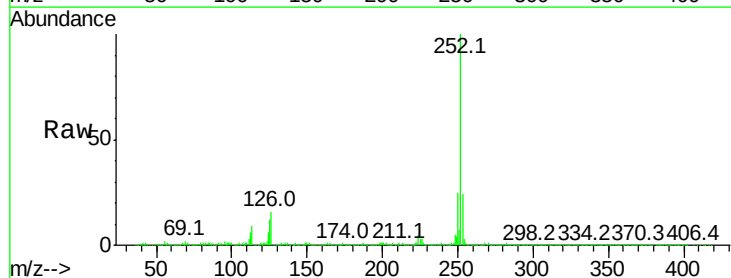
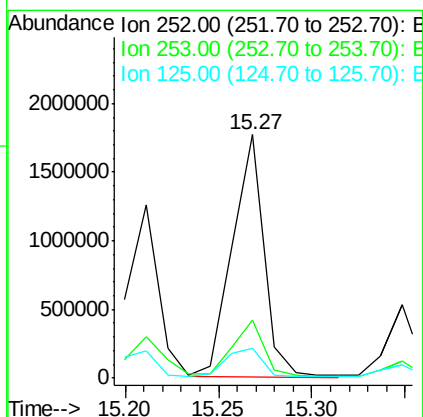
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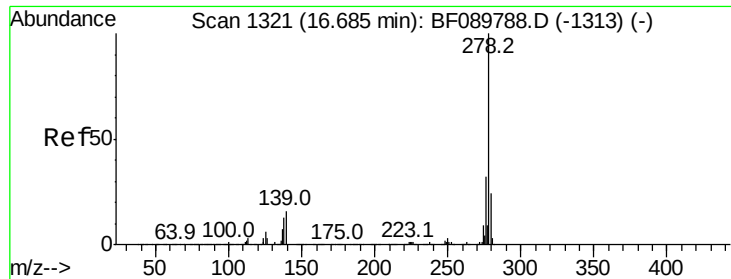
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#89
Benzo(a)pyrene
Concen: 33.81 ng
RT: 15.27 min Scan# 1197
Delta R.T. -0.05 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	12.4	11.7	17.5





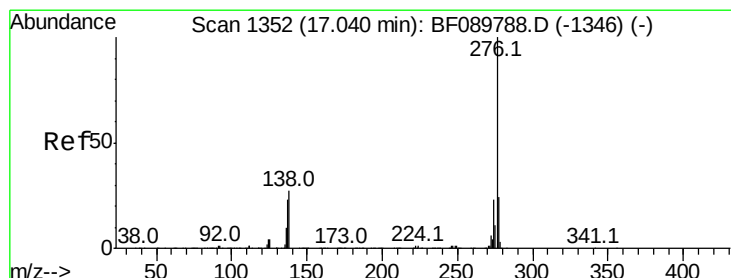
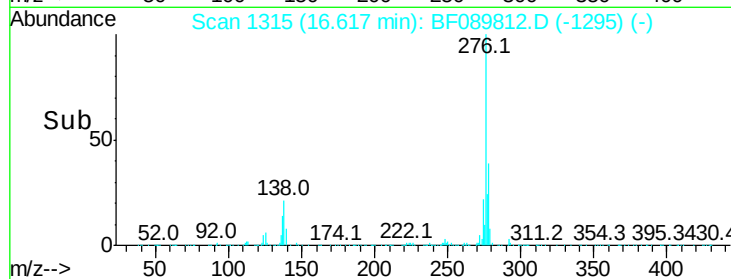
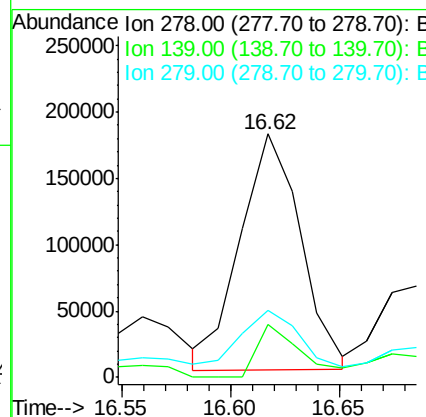
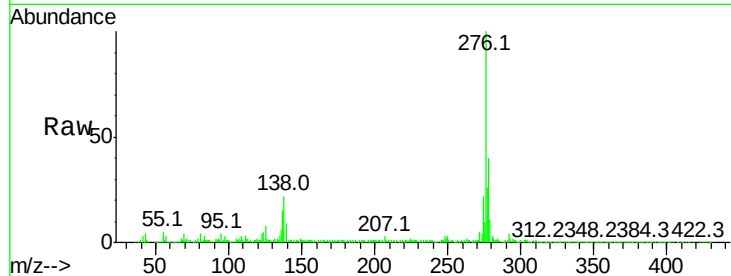
#90
Dibenzo(a,h)anthracene
Concen: 5.09 ng
RT: 16.62 min Scan# 1315
Delta R.T. -0.07 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Instrument :
BNA_F
ClientSampled :
B-1(0-5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.7	14.9	22.3
279	27.7	19.2	28.8

Manual Integrations
APPROVED

sohil
8/22/2016 3:48:26 PM



#91
Benzo(g,h,i)perylene
Concen: 16.37 ng
RT: 16.99 min Scan# 1348
Delta R.T. -0.05 min
Lab File: BF089812.D
Acq: 19 Aug 2016 22:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.2	28.8
138	23.8	22.1	33.1

