

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041317\
 Data File : BF094408.D
 Acq On : 13 Apr 2017 23:24
 Operator : SJ/MA
 Sample : I2670-01 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R4

Manual Integrations
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Quant Time: Apr 14 07:29:22 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 14 01:21:26 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	154390	20.00	ng	-0.04
21) Naphthalene-d8	7.29	136	597105	20.00	ng	-0.05
38) Acenaphthene-d10	9.43	164	247343	20.00	ng	-0.05
63) Phenanthrene-d10	11.24	188	378547	20.00	ng	-0.05
75) Chrysene-d12	14.50	240	278564	20.00	ng	-0.05
86) Perylene-d12	16.12	264	215597	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	500297	54.73	ng	-0.04
7) Phenol-d6	5.42	99	609681	53.92	ng	-0.05
23) Nitrobenzene-d5	6.43	82	356327	34.06	ng	-0.05
41) 2,4,6-Tribromophenol	10.40	330	90347	46.22	ng	-0.05
44) 2-Fluorobiphenyl	8.61	172	604430	37.27	ng	-0.05
78) Terphenyl-d14	13.22	244	363643	29.26	ng	-0.05
Target Compounds						Qvalue
10) Phenol	5.43	94	33784	2.63	ng	94
31) Naphthalene	7.31	128	101070	3.52	ng	99
37) 2-Methylnaphthalene	8.15	142	72678	3.80	ng	97
49) Dimethylphthalate	9.11	163	110978	6.31	ng	98
51) Acenaphthene	9.46	154	122233	8.07	ng	98
54) Dibenzofuran	9.67	168	127652	6.19	ng	96
57) Fluorene	10.10	166	185054	10.82	ng	98
70) Phenanthrene	11.28	178	991243	47.07	ng	98
71) Anthracene	11.34	178	280967	12.96	ng	98
72) Carbazole	11.54	167	107118	4.82	ng	97
74) Fluoranthene	12.74	202	951528	44.13	ng	99
77) Pyrene	13.02	202	840188	41.56	ng	98
80) Benzo(a)anthracene	14.49	228	342565	21.09	ng	98
82) Chrysene	14.53	228	323401	21.45	ng	98
83) Bis(2-ethylhexyl)phthalate	14.55	149	30128	2.56	ng	# 97
85) Indeno(1,2,3-cd)pyrene	17.41	276	119055	9.12	ng	95
87) Benzo(b)fluoranthene	15.72	252	326825m	24.73	ng	
88) Benzo(k)fluoranthene	15.74	252	112010m	8.66	ng	
89) Benzo(a)pyrene	16.06	252	233464	19.18	ng	97
90) Dibenzo(a,h)anthracene	17.42	278	32971m	3.20	ng	
91) Benzo(g,h,i)perylene	17.79	276	113407	10.92	ng	98

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

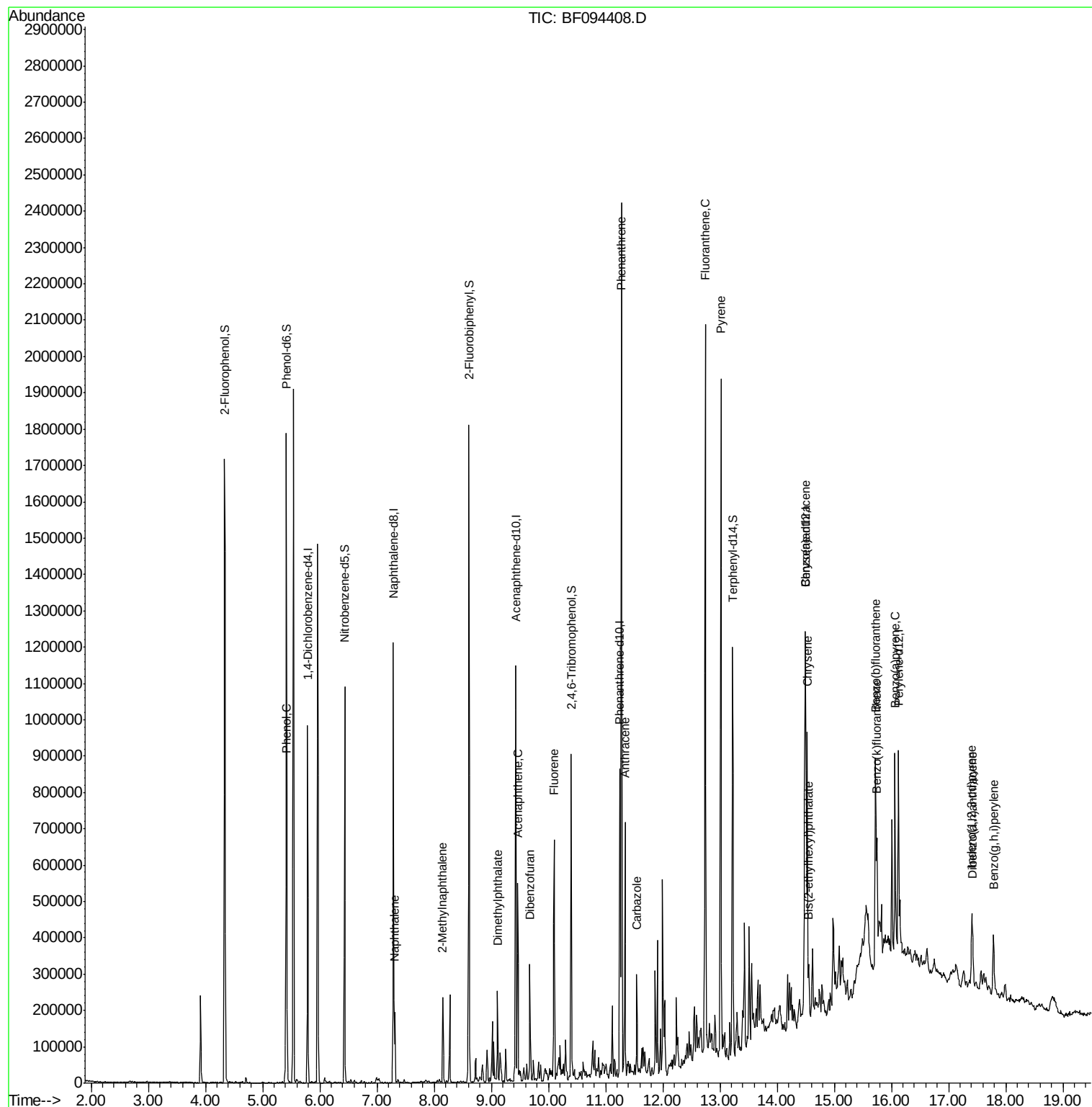
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041317\
Data File : BF094408.D
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Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

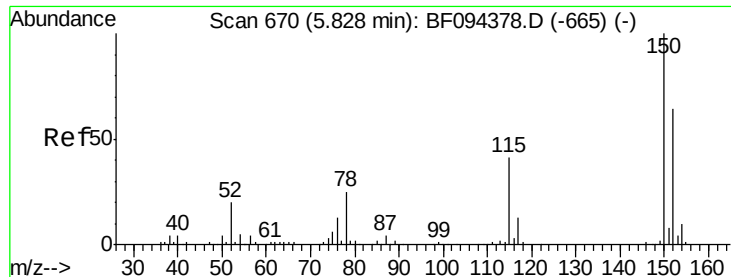
Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R4

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#1

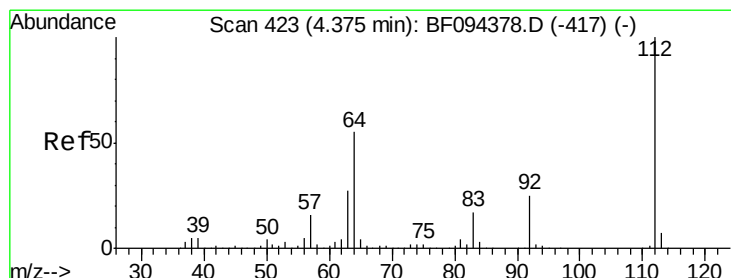
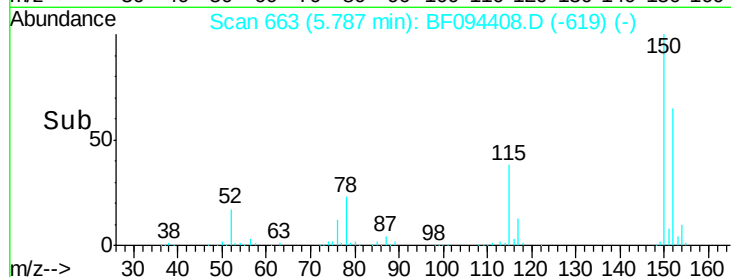
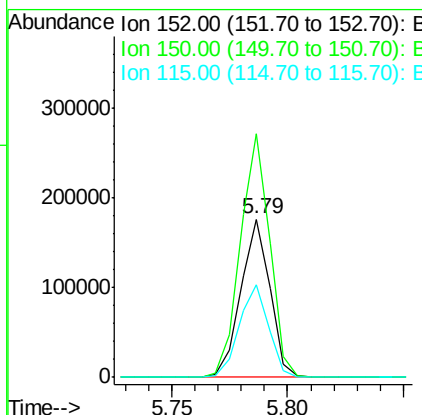
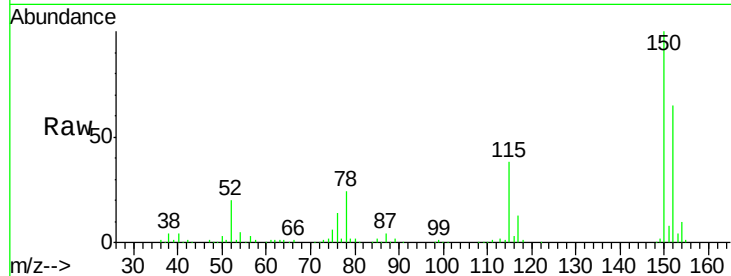
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.79 min Scan# 663
Delta R.T. -0.04 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R4

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	126.2	189.2
115	58.8	52.2	78.2

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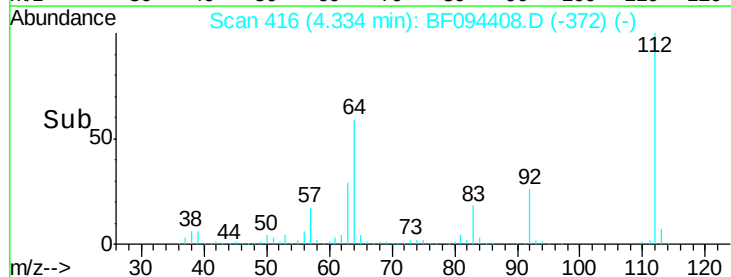
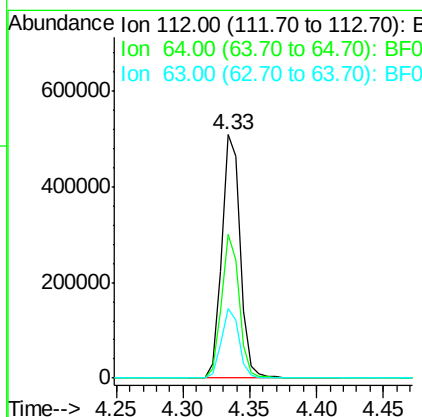
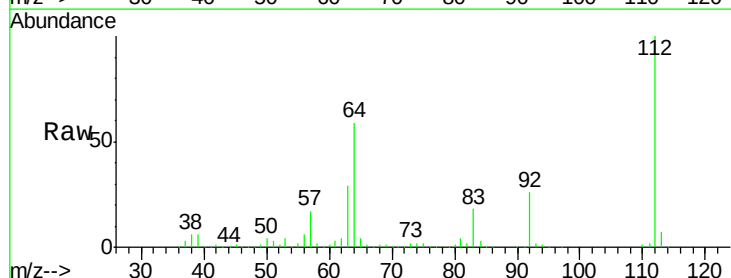
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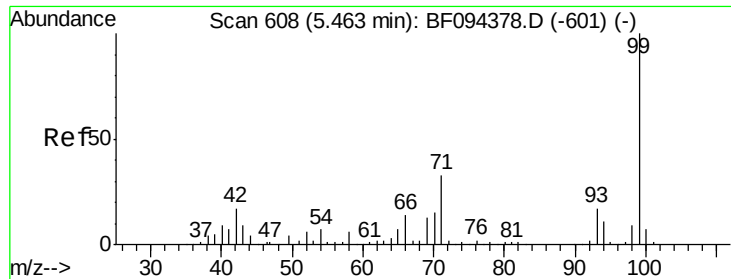


#5

2-Fluorophenol
Concen: 54.73 ng
RT: 4.33 min Scan# 416
Delta R.T. -0.04 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.0	46.0	69.0
63	28.7	23.4	35.0





#7

Phenol-d6

Concen: 53.92 ng

RT: 5.42 min Scan# 600

Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Instrument :

BNA_F

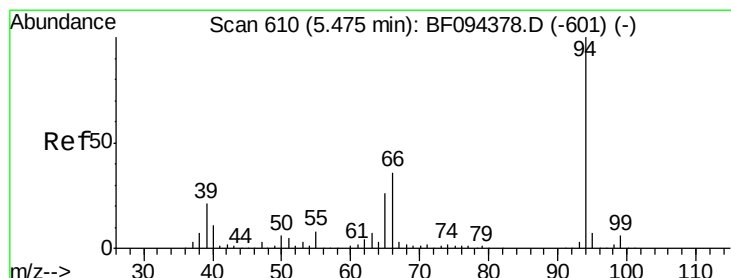
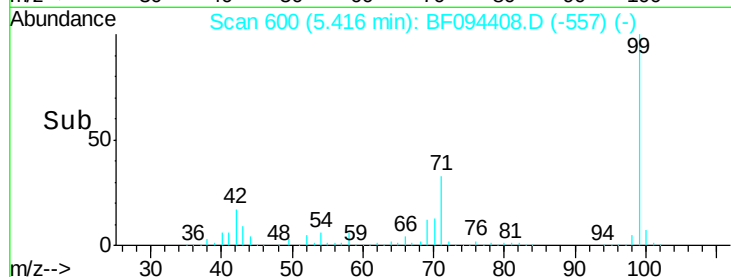
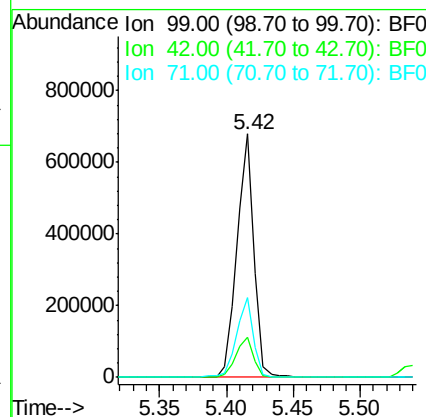
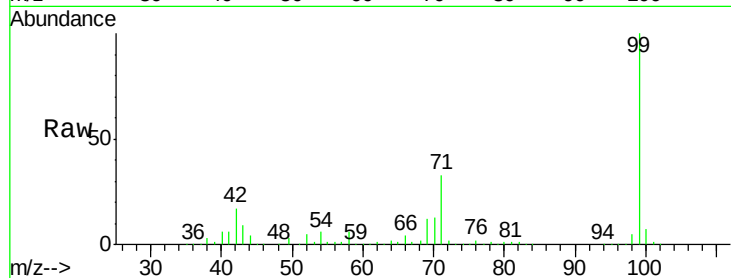
ClientSampleId :

ROLL-OFF-R4

Tot Ion:	99	Resp:	609681
Ion	Ratio	Lower	Upper
99	100		
42	16.6	13.5	20.3
71	32.5	24.5	36.7

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#10

Phenol

Concen: 2.63 ng

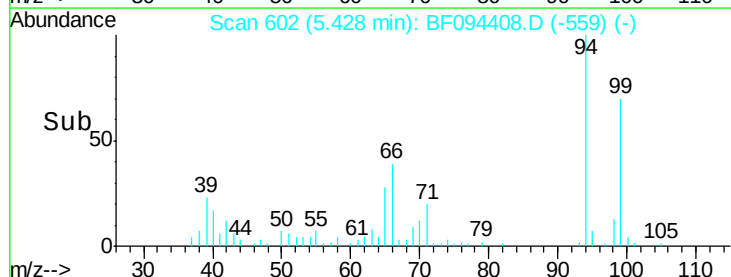
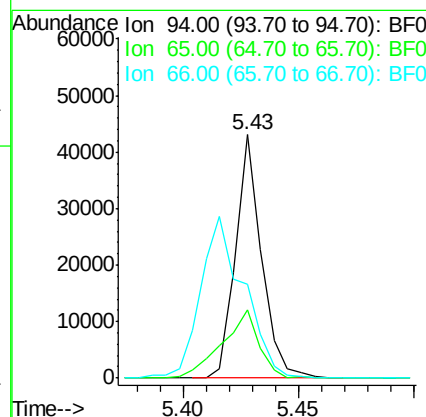
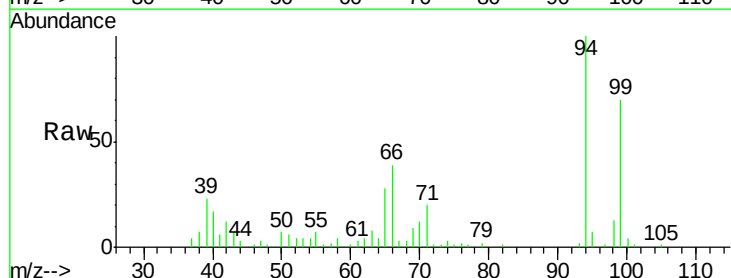
RT: 5.43 min Scan# 602

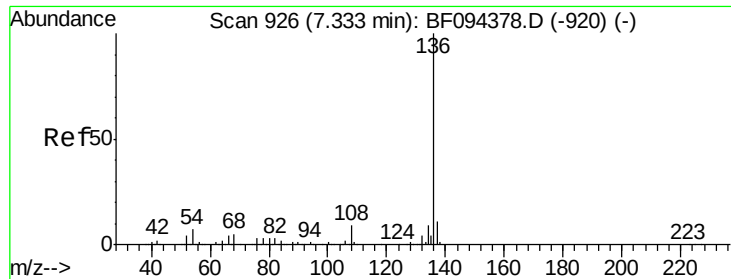
Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Tgt Ion:	94	Resp:	33784
Ion	Ratio	Lower	Upper
94	100		
65	28.1	9.9	49.9
66	38.6	23.1	63.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.29 min Scan# 918

Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Instrument :

BNA_F

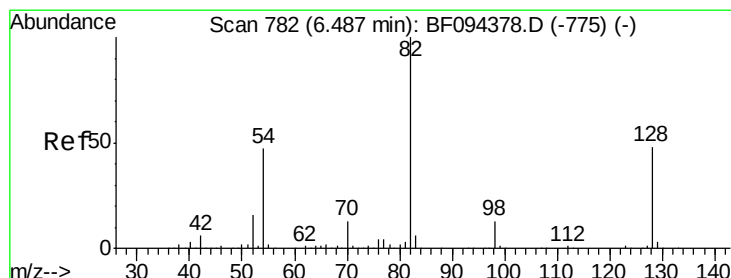
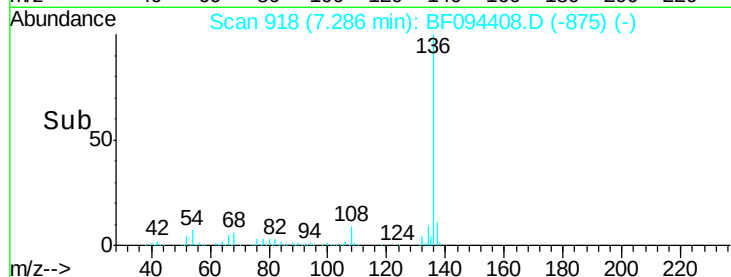
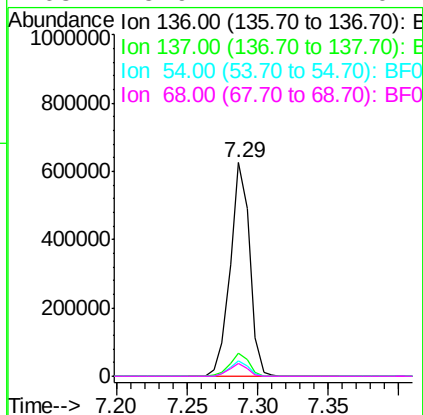
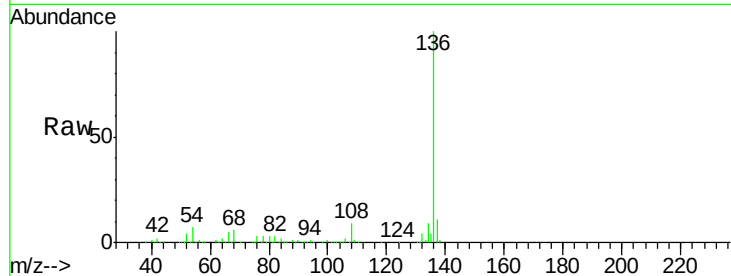
ClientSampleId :

ROLL-OFF-R4

Tot Ion	Ratio	Resp Lower	Upper
136	100		597105
137	10.9	8.5	12.7
54	7.2	4.9	7.3
68	5.9	4.1	6.1

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#23

Nitrobenzene-d5

Concen: 34.06 ng

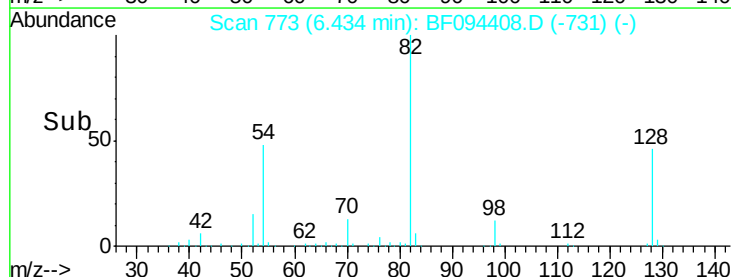
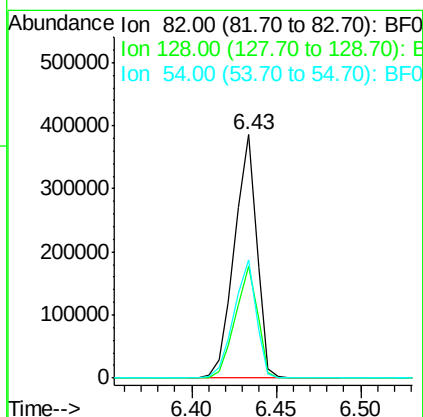
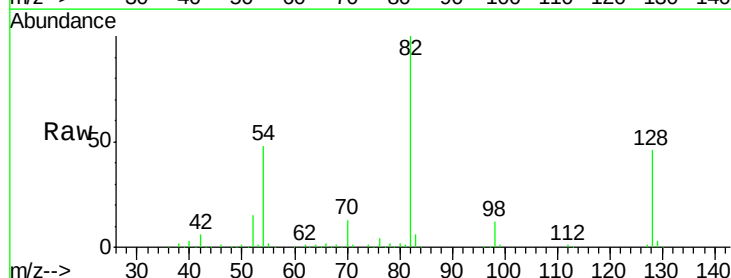
RT: 6.43 min Scan# 773

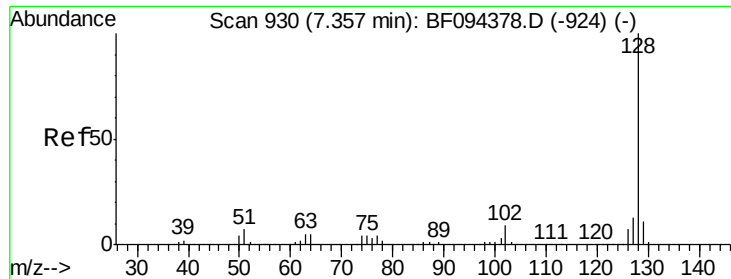
Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Resp Lower	Upper
82	100		356327
128	46.2	34.0	51.0
54	48.4	42.2	63.2





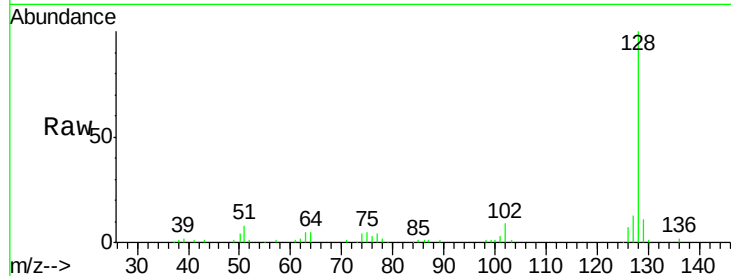
#31
Naphthalene
Concen: 3.52 ng
RT: 7.31 min Scan# 922
Delta R.T. -0.05 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Instrument :
BNA_F
ClientSampled :
ROLL-OFF-R4

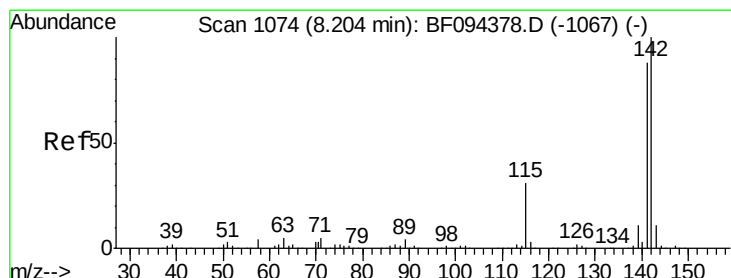
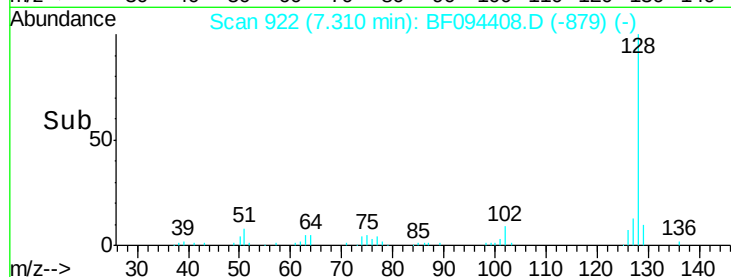
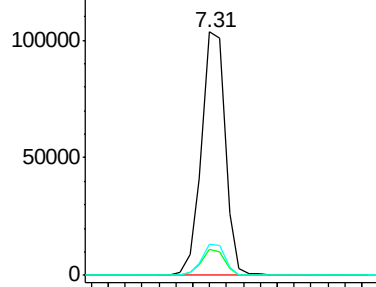
Tot Ion	Ratio	Resp	Lower	Upper
128	100	101070		
129	10.9	9.0	13.6	
127	12.9	10.8	16.2	

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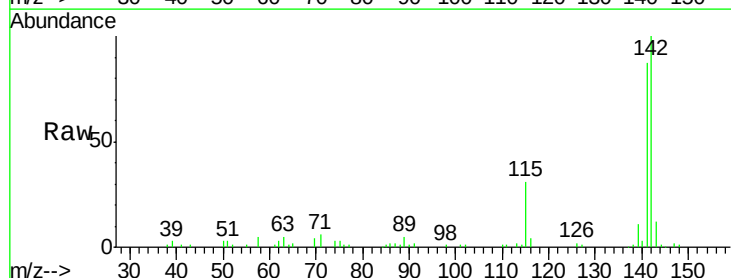


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

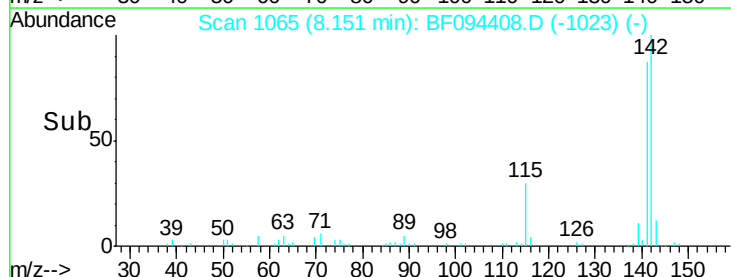
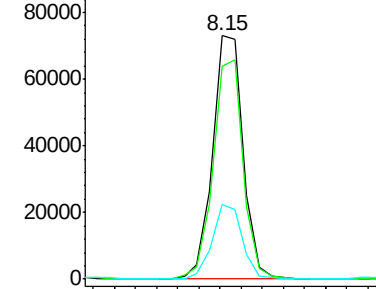


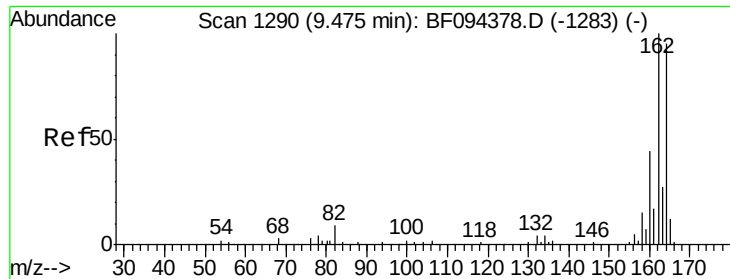
#37
2-Methylnaphthalene
Concen: 3.80 ng
RT: 8.15 min Scan# 1065
Delta R.T. -0.05 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	72678		
141	87.2	71.3	106.9	
115	30.5	27.1	40.7	



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





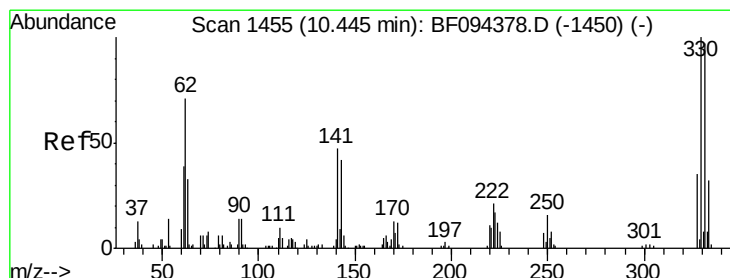
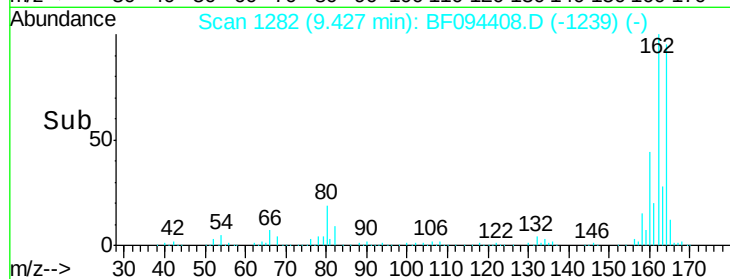
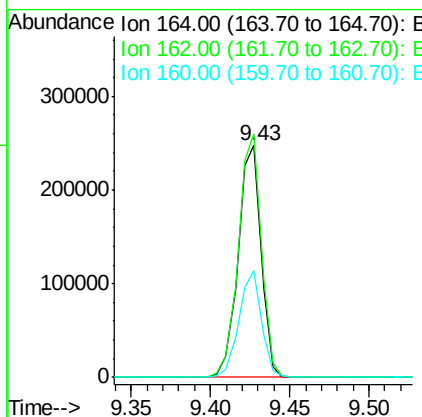
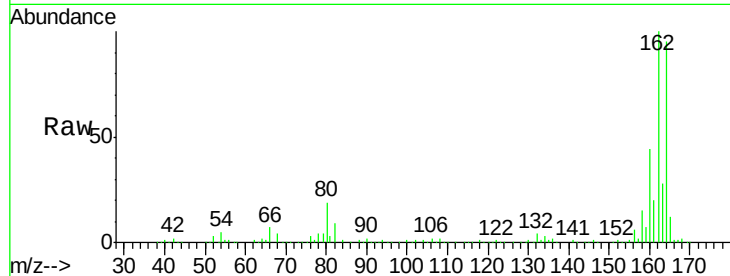
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.43 min Scan# 1282
 Delta R.T. -0.05 min
 Lab File: BF094408.D
 Acq: 13 Apr 2017 23:24

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R4

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.1	82.6	123.8
160	46.2	36.2	54.2

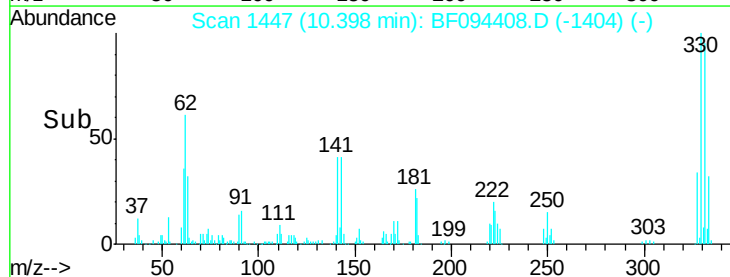
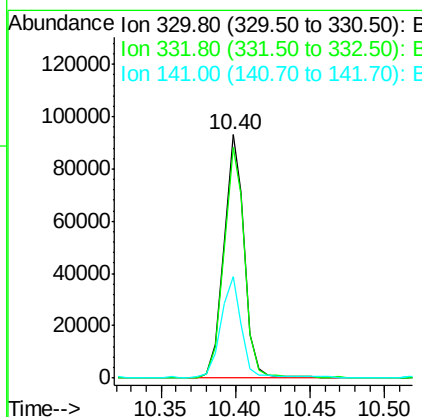
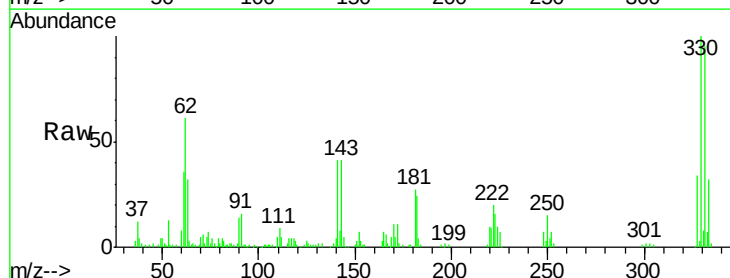
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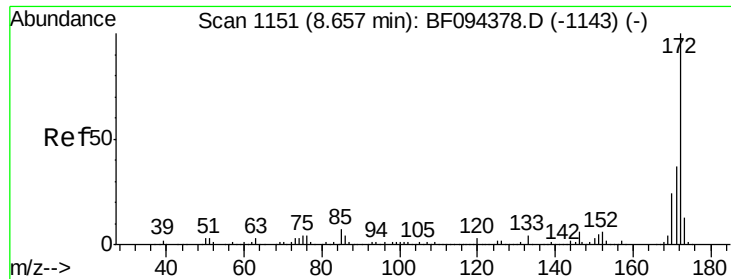
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#41
 2,4,6-Tribromophenol
 Concen: 46.22 ng
 RT: 10.40 min Scan# 1447
 Delta R.T. -0.05 min
 Lab File: BF094408.D
 Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.6	115.0
141	42.3	31.4	47.2





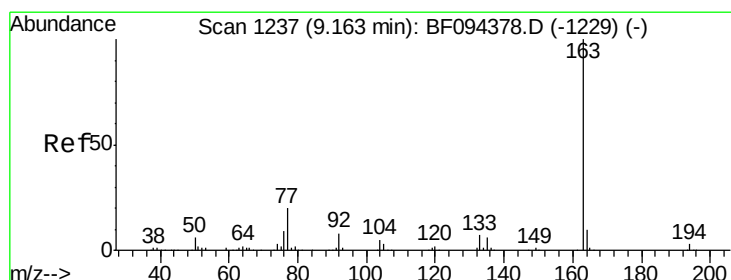
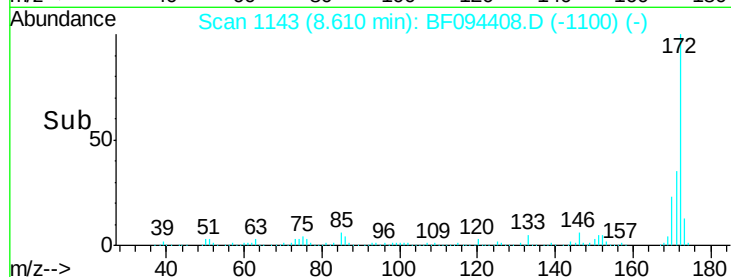
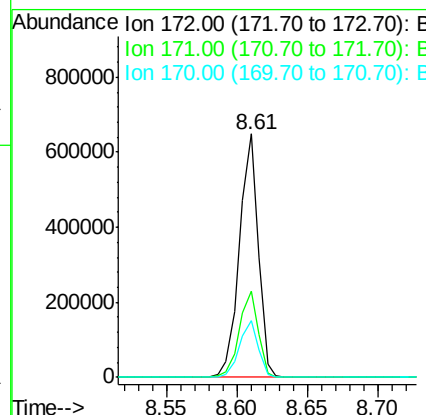
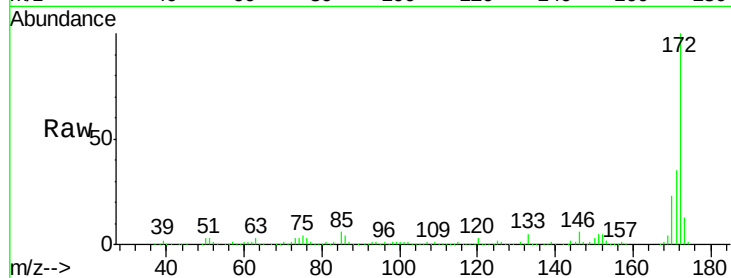
#44
2-Fluorobiphenyl
Concen: 37.27 ng
RT: 8.61 min Scan# 1143
Delta R.T. -0.05 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R4

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.6	44.4
170	23.0	19.8	29.8

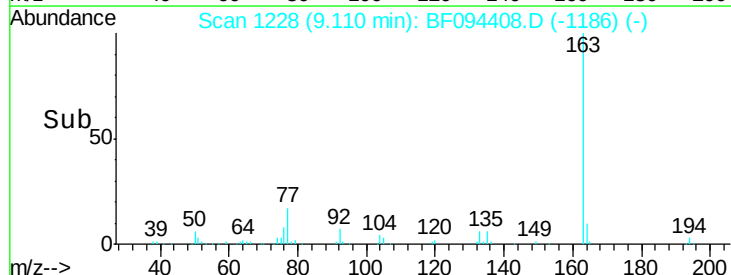
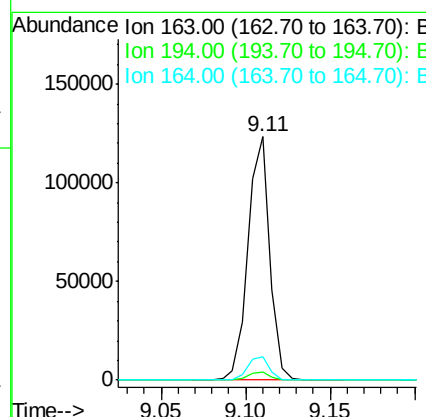
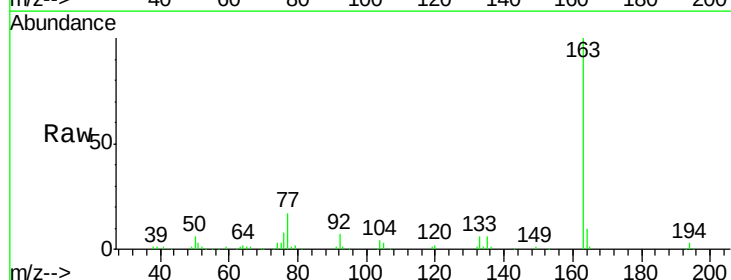
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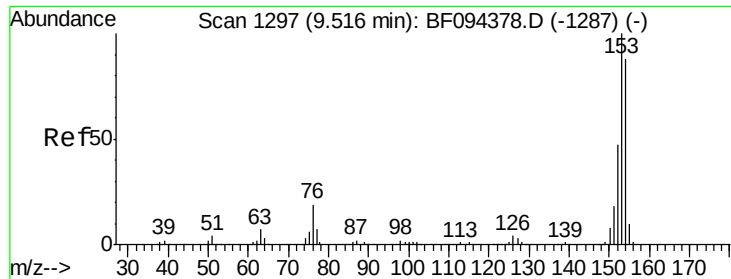
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#49
Dimethylphthalate
Concen: 6.31 ng
RT: 9.11 min Scan# 1228
Delta R.T. -0.05 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	9.6	8.4	12.6





#51

Acenaphthene

Concen: 8.07 ng

RT: 9.46 min Scan# 1288

Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Instrument :

BNA_F

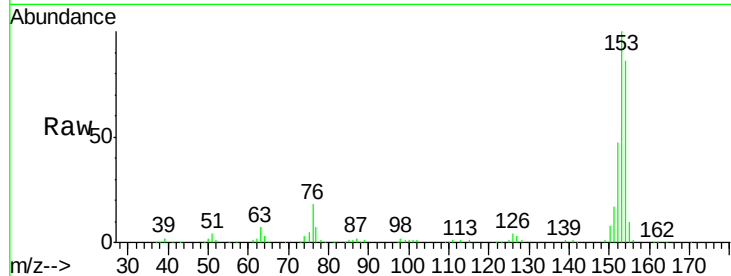
ClientSampleId :

ROLL-OFF-R4

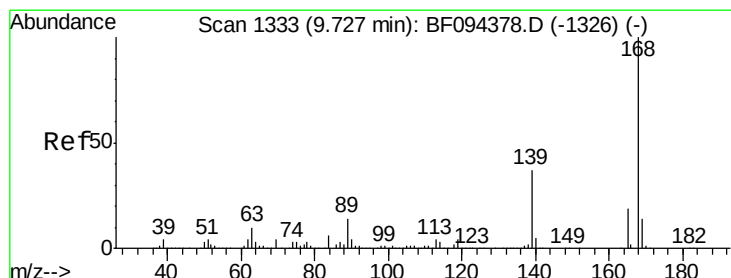
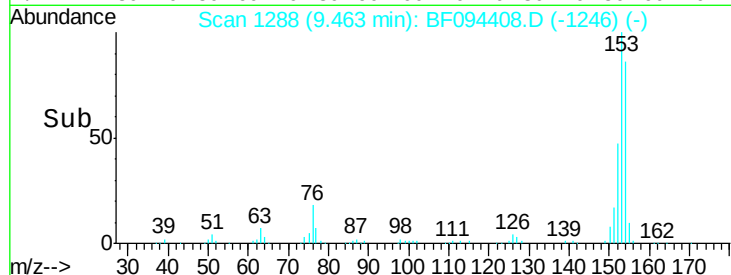
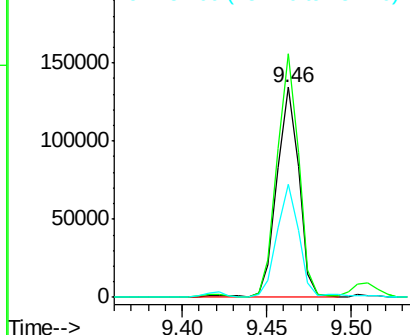
Tot Ion:	154	Resp:	122233
Ion Ratio	Lower	Upper	
154	100		
153	116.1	90.5	135.7
152	54.1	43.6	65.4

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.19 ng

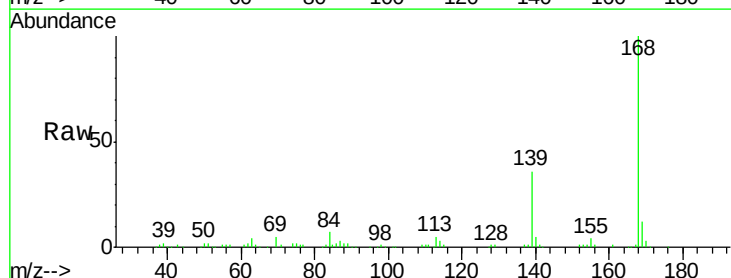
RT: 9.67 min Scan# 1324

Delta R.T. -0.05 min

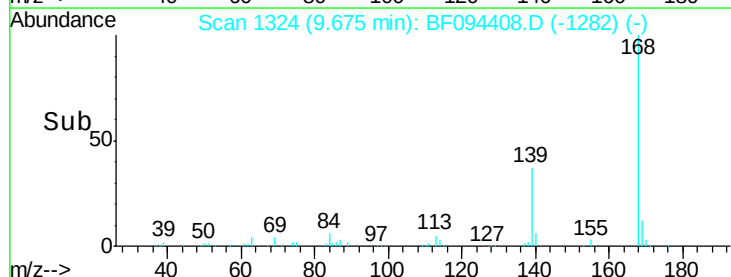
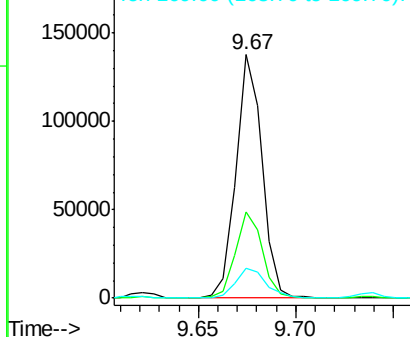
Lab File: BF094408.D

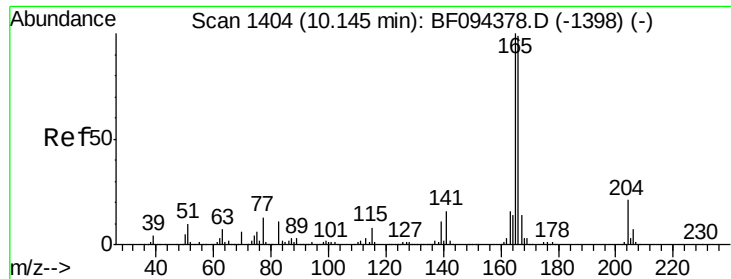
Acq: 13 Apr 2017 23:24

Tgt Ion:	168	Resp:	127652
Ion Ratio	Lower	Upper	
168	100		
139	35.5	30.6	45.8
169	12.4	10.8	16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 10.82 ng

RT: 10.10 min Scan# 1396

Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Instrument :

BNA_F

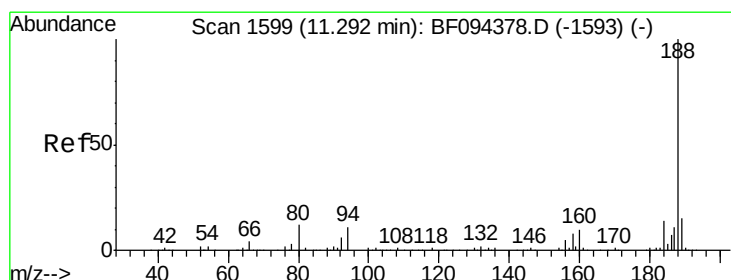
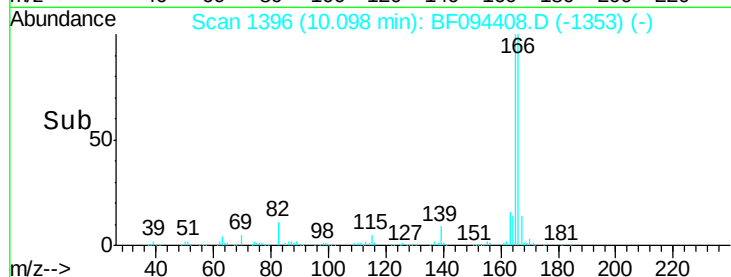
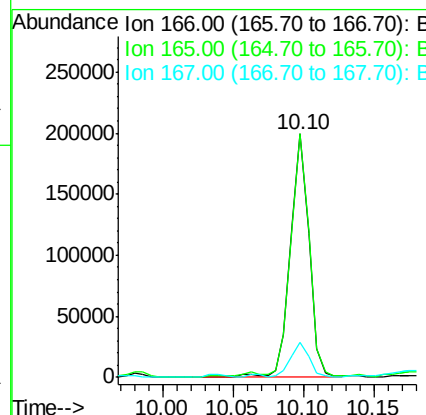
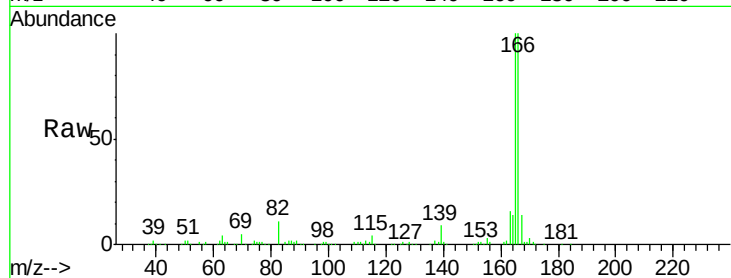
ClientSampled :

ROLL-OFF-R4

Tot Ion	Ratio	Resp	Lower	Upper
166	100	185054		
165	100.1		78.8	118.2
167	14.4		10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.00 ng

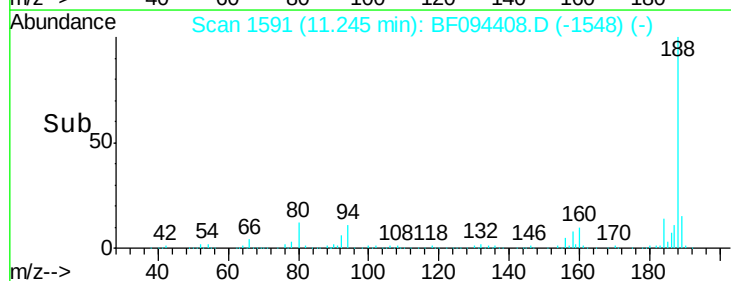
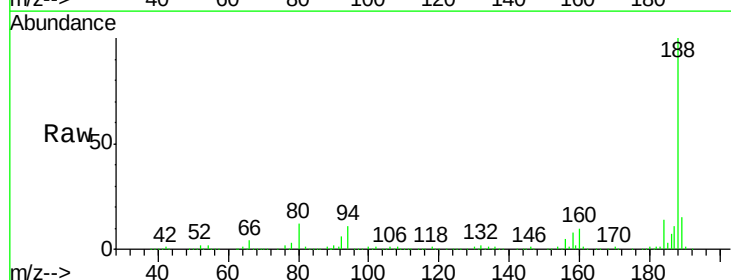
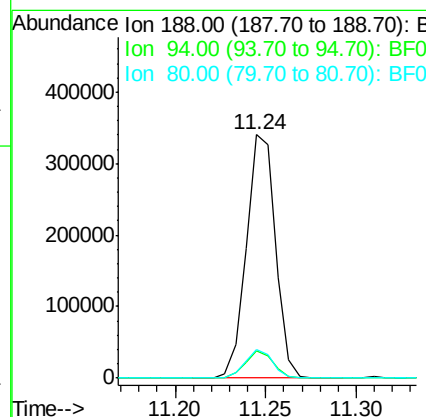
RT: 11.24 min Scan# 1591

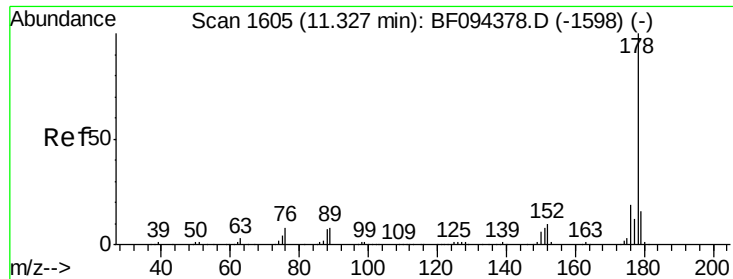
Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	378547		
94	11.2		9.4	14.2
80	11.7		10.2	15.2





#70

Phenanthrene

Concen: 47.07 ng

RT: 11.28 min Scan# 1597

Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Instrument :

BNA_F

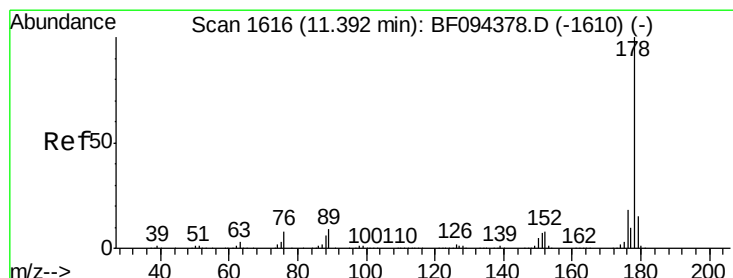
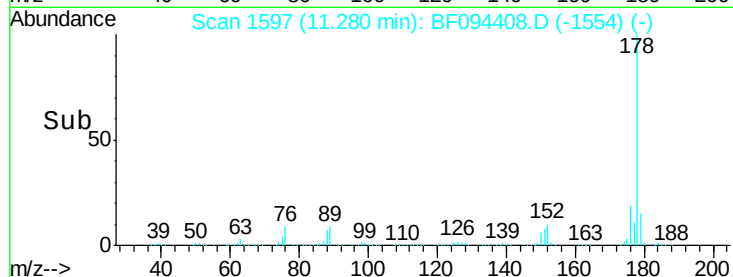
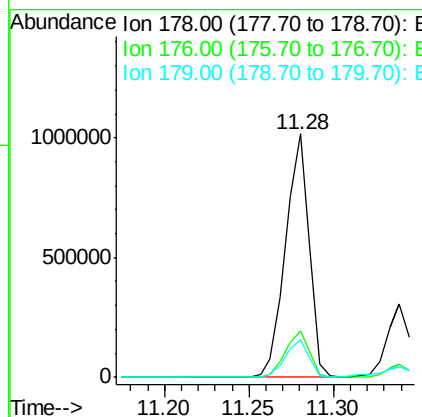
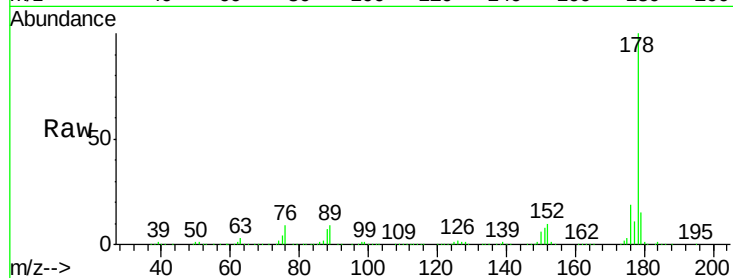
ClientSampled :

ROLL-OFF-R4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
178	100		991243		
176	19.2	16.2	24.4		
179	15.2	12.6	19.0		

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#71

Anthracene

Concen: 12.96 ng

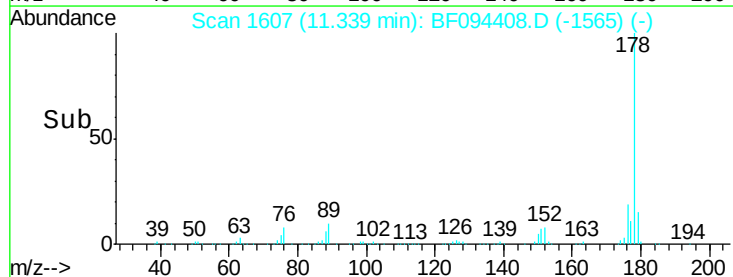
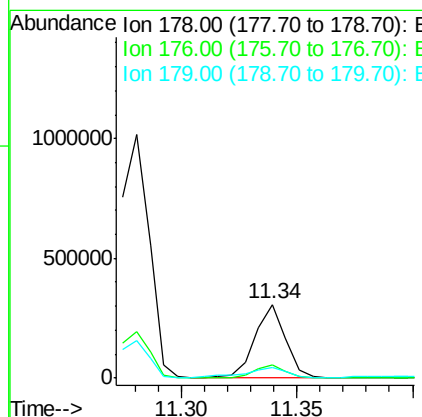
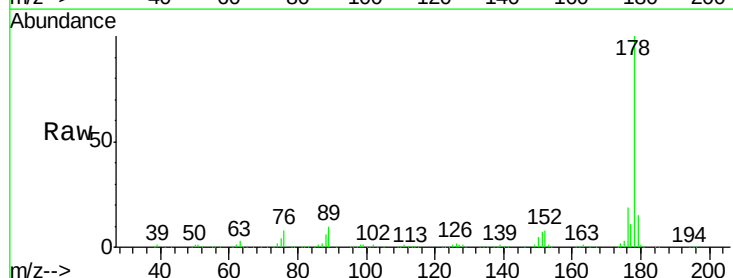
RT: 11.34 min Scan# 1607

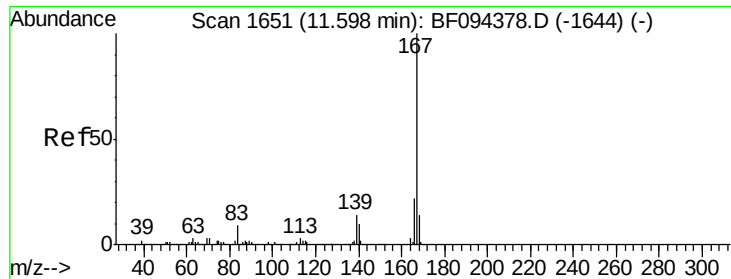
Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
178	100		280967		
176	18.9	15.8	23.8		
179	15.3	12.7	19.1		





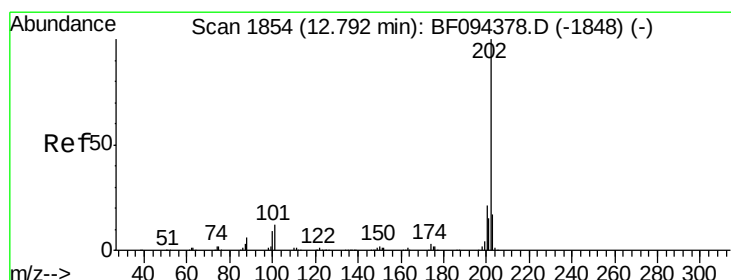
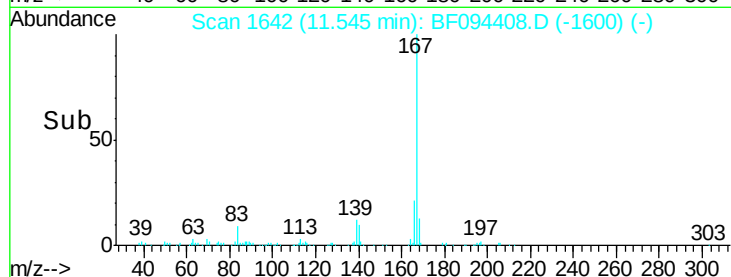
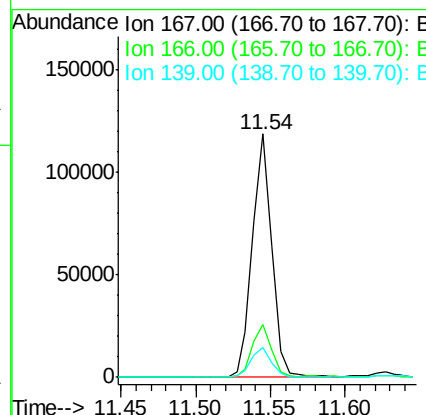
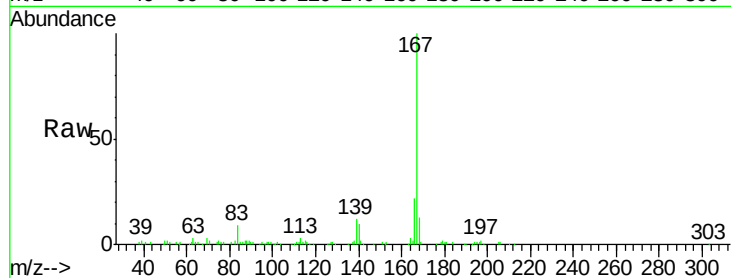
#72
 Carbazole
 Concen: 4.82 ng
 RT: 11.54 min Scan# 1642
 Delta R.T. -0.05 min
 Lab File: BF094408.D
 Acq: 13 Apr 2017 23:24

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R4

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.1	27.1
139	12.1	11.7	17.5

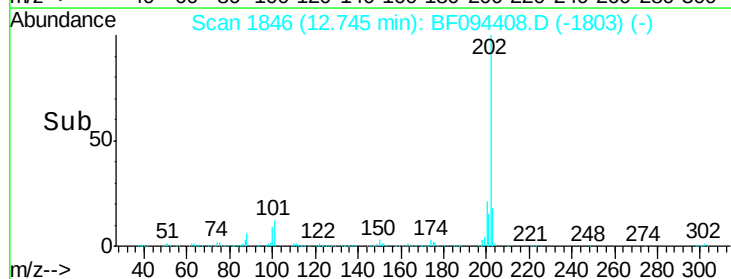
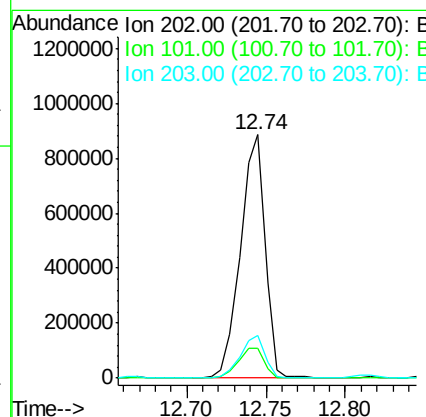
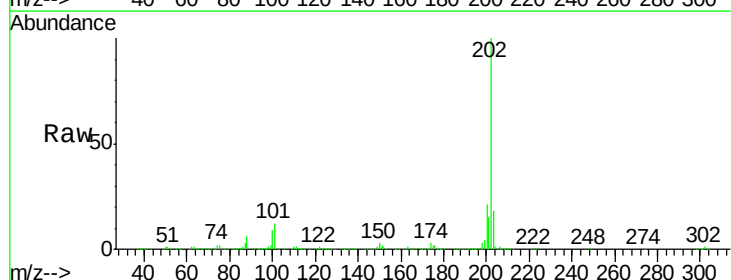
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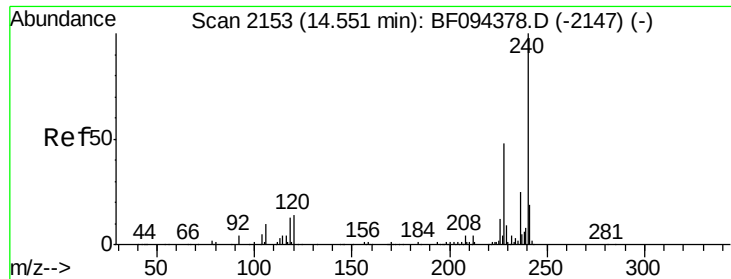
mohammad
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#74
 Fluoranthene
 Concen: 44.13 ng
 RT: 12.74 min Scan# 1846
 Delta R.T. -0.05 min
 Lab File: BF094408.D
 Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	33.2
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.50 min Scan# 2144

Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Instrument :

BNA_F

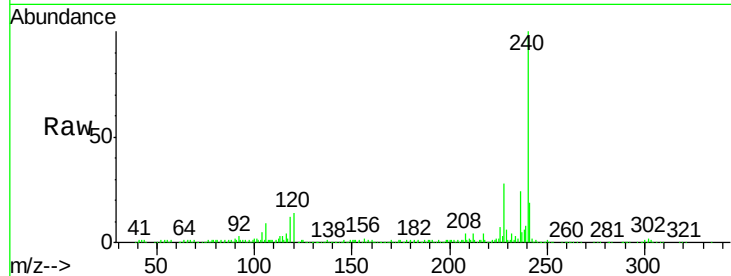
ClientSampleId :

ROLL-OFF-R4

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.3	5.8	8.8#
236	24.5	20.5	30.7

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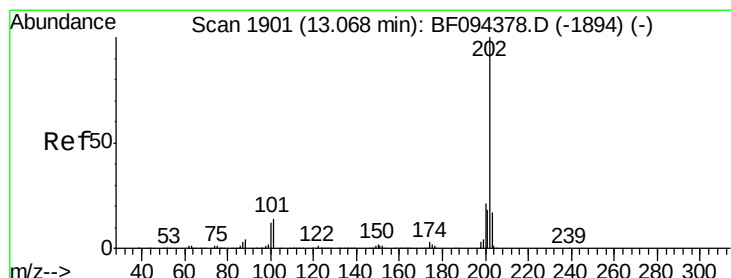
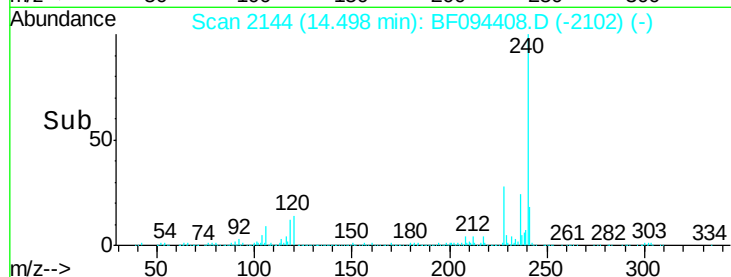
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

14.50

Time-->



#77

Pyrene

Concen: 41.56 ng

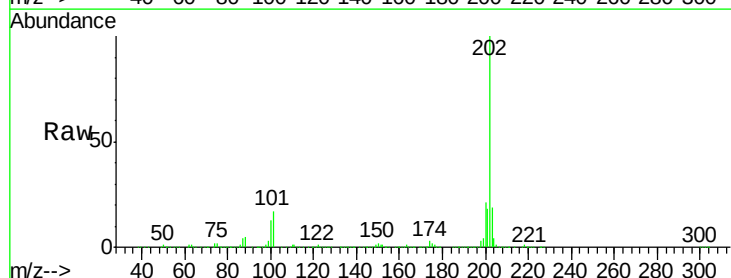
RT: 13.02 min Scan# 1892

Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.6	26.4
203	19.1	14.4	21.6



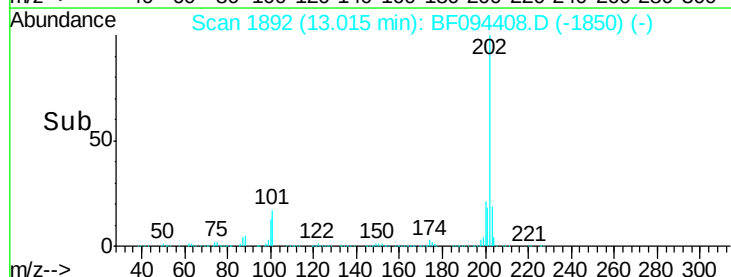
Abundance Ion 202.00 (201.70 to 202.70): E

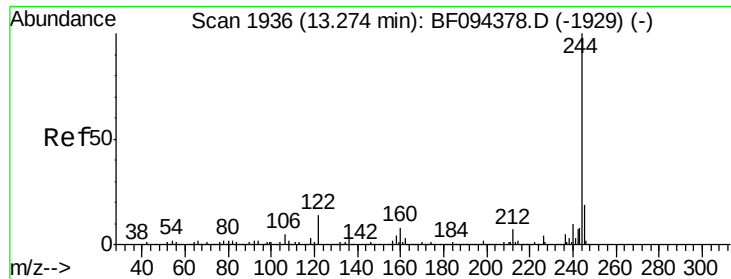
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

13.02

Time-->





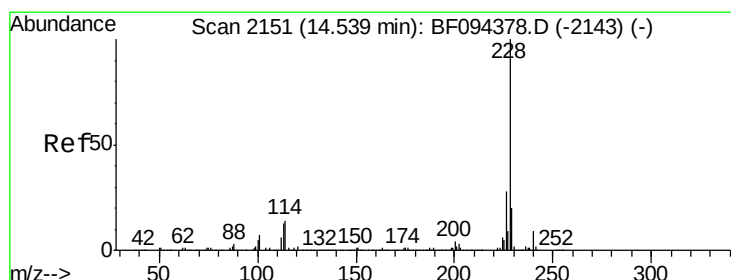
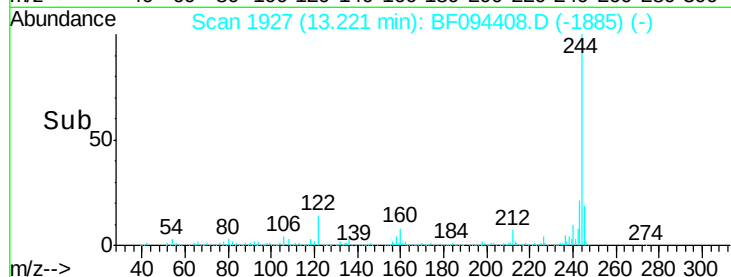
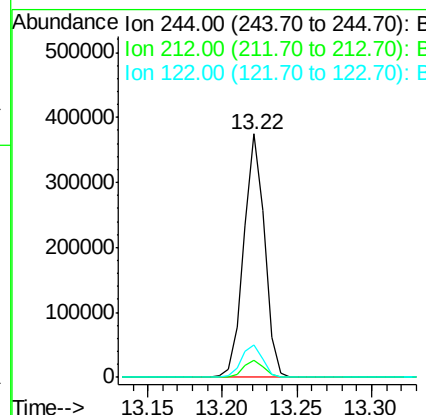
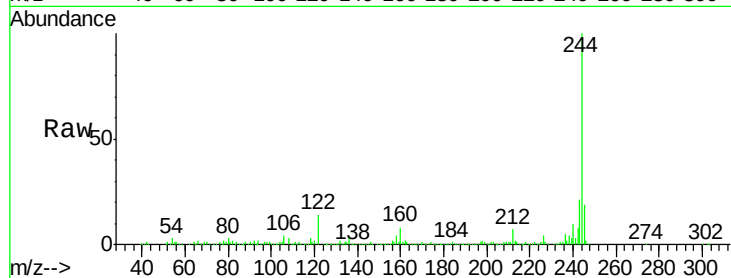
#78
 Terphenyl-d14
 Concen: 29.26 ng
 RT: 13.22 min Scan# 1927
 Delta R.T. -0.05 min
 Lab File: BF094408.D
 Acq: 13 Apr 2017 23:24

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R4

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	13.5	10.3	15.5

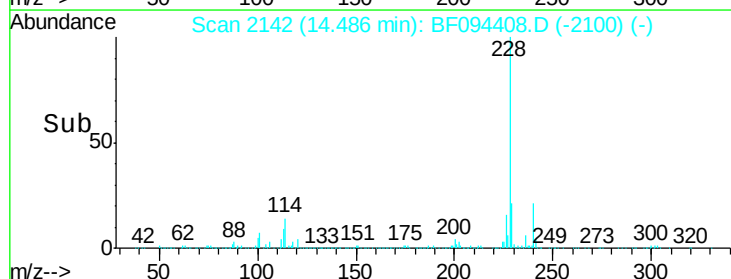
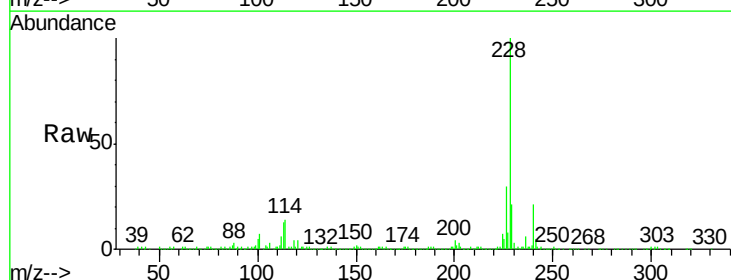
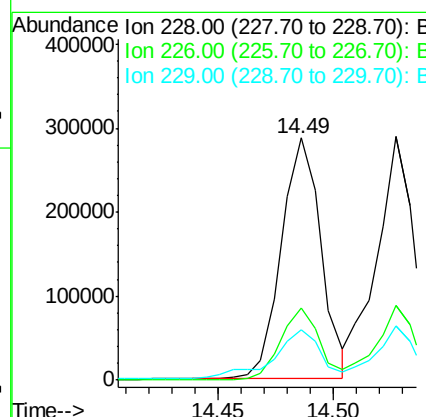
Manual Integrations
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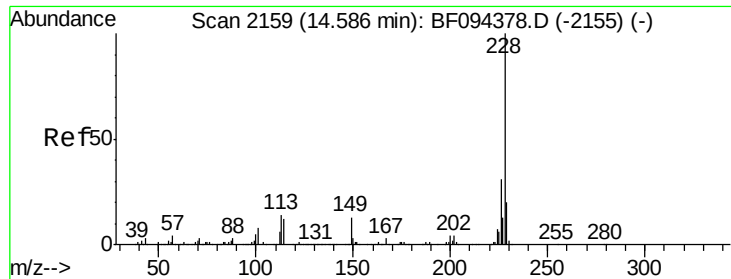
mohammad
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#80
 Benzo(a)anthracene
 Concen: 21.09 ng
 RT: 14.49 min Scan# 2142
 Delta R.T. -0.05 min
 Lab File: BF094408.D
 Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.6	33.8
229	21.0	16.3	24.5





#82

Chrysene

Concen: 21.45 ng

RT: 14.53 min Scan# 2149

Delta R.T. -0.06 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Instrument :

BNA_F

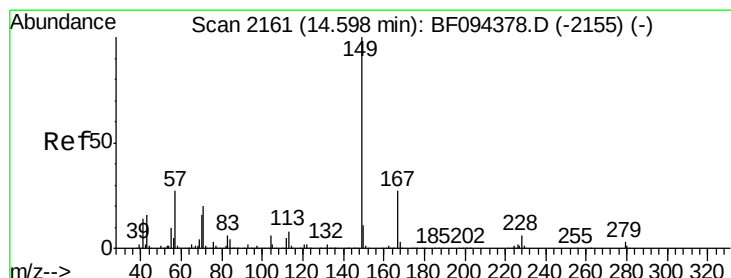
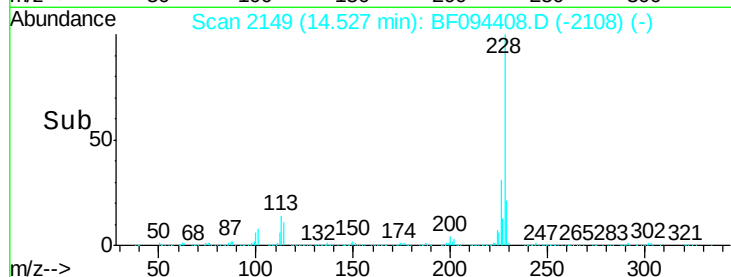
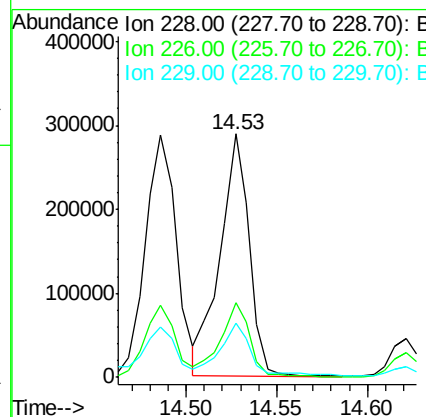
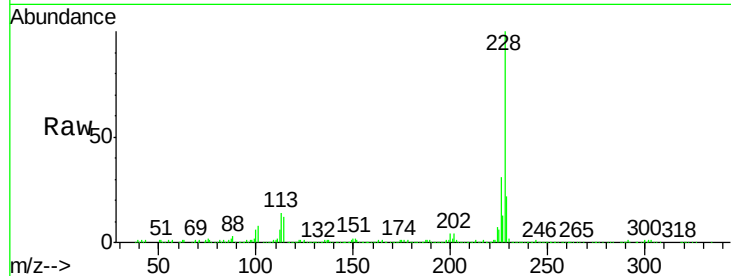
ClientSampleId :

ROLL-OFF-R4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100				
226	30.7		24.9	37.3	
229	22.0		15.8	23.6	

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#83

Bis(2-ethylhexyl)phthalate

Concen: 2.56 ng

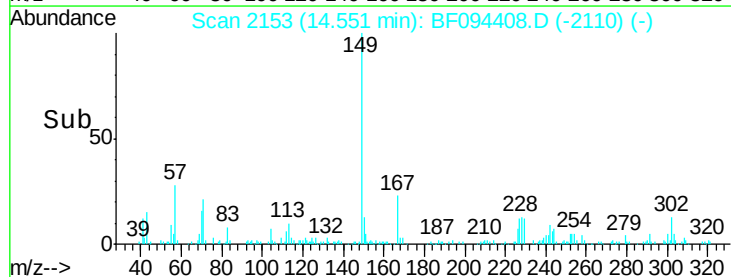
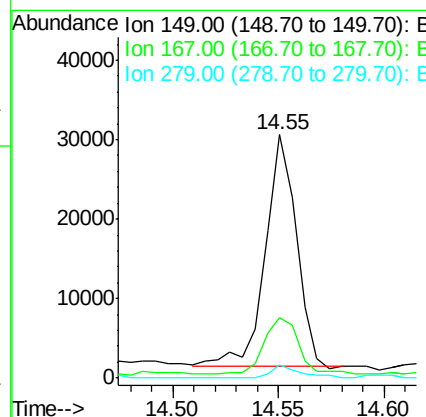
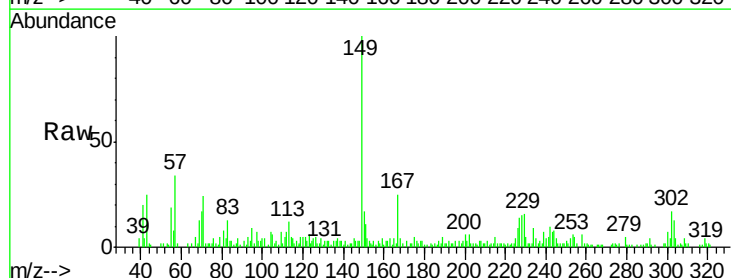
RT: 14.55 min Scan# 2153

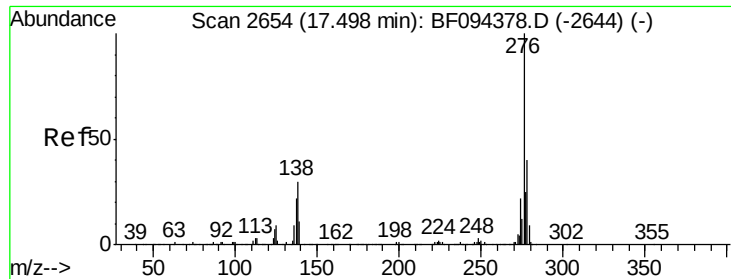
Delta R.T. -0.05 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
149	100				
167	24.7		21.0	31.4	
279	5.4		1.9	2.9#	





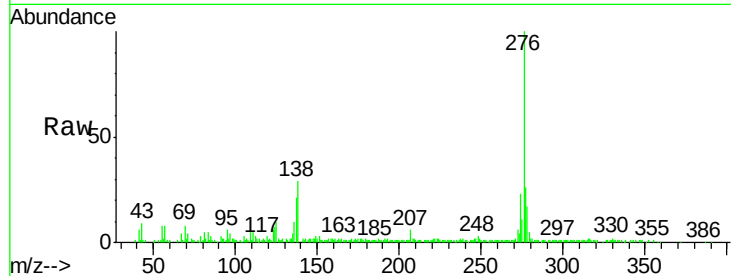
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.12 ng
RT: 17.41 min Scan# 2639
Delta R.T. -0.09 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R4

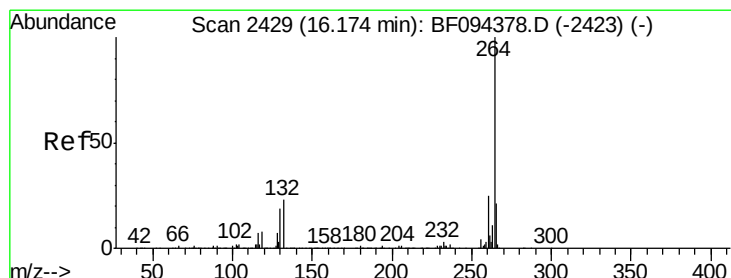
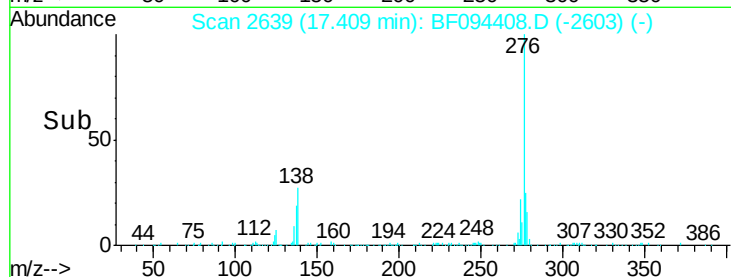
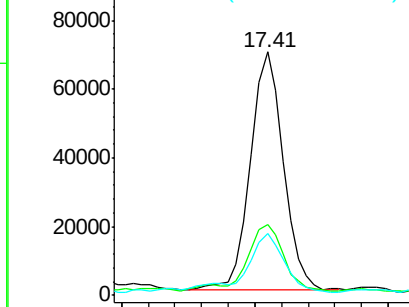
Tot Ion	Ratio	Lower	Upper
276	100		
138	32.7	27.8	41.6
277	28.7	20.2	30.4

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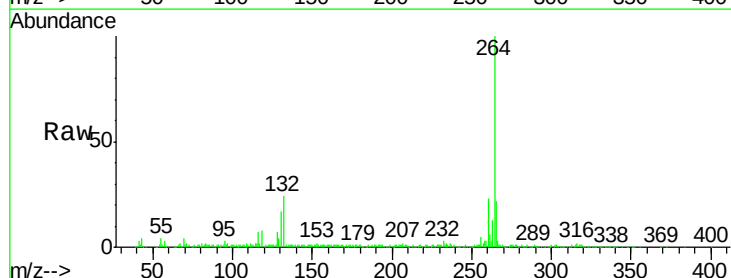


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

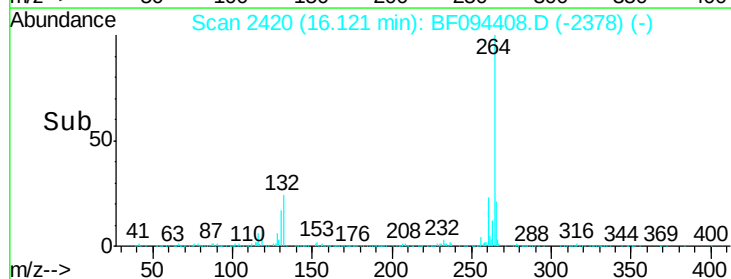
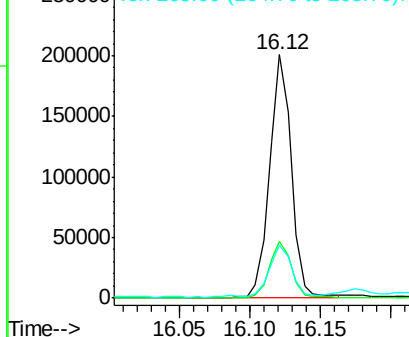


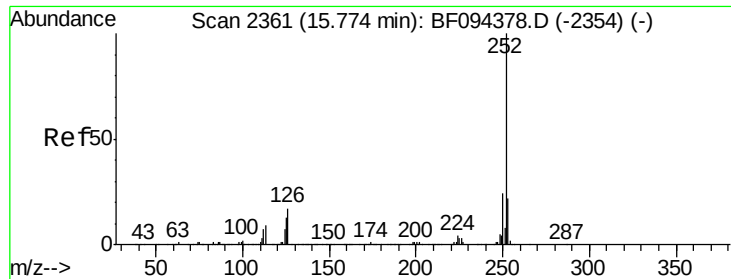
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.12 min Scan# 2420
Delta R.T. -0.05 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.5	29.3
265	21.6	17.2	25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





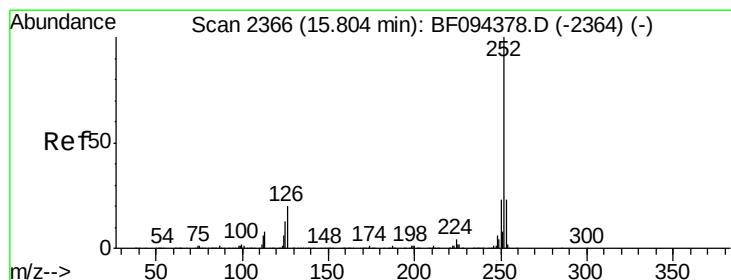
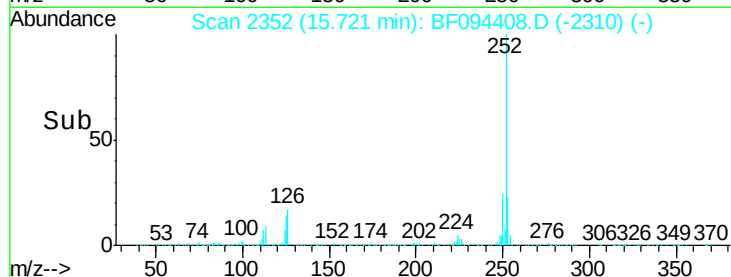
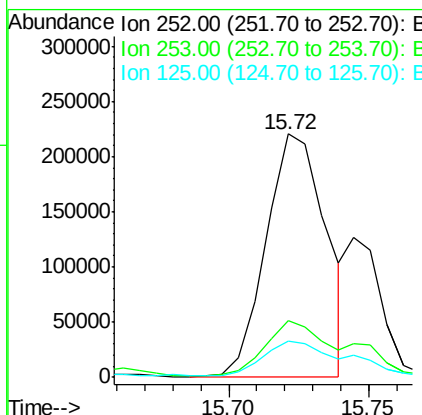
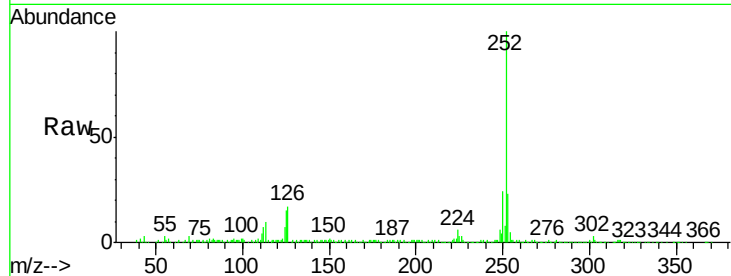
#87
Benzo(b)fluoranthene
Concen: 24.73 ng m
RT: 15.72 min Scan# 2352
Delta R.T. -0.05 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	15.1	9.8	14.8

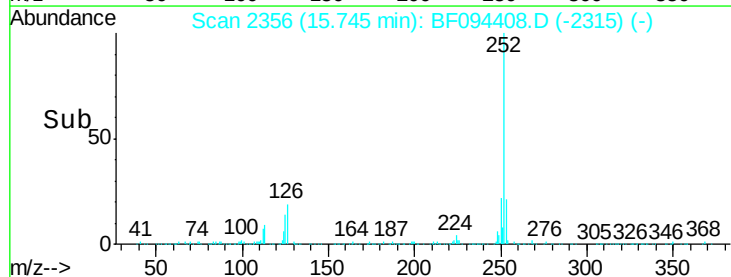
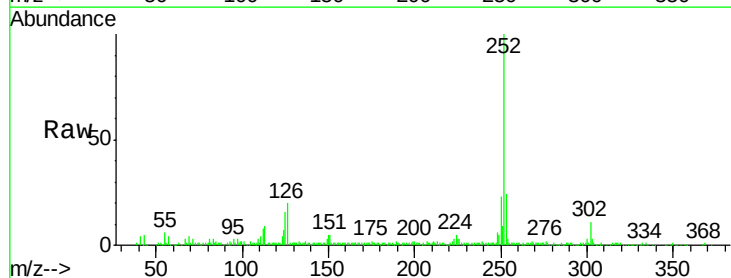
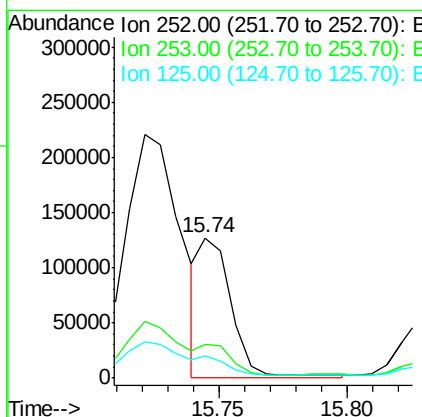
Manual Integrations
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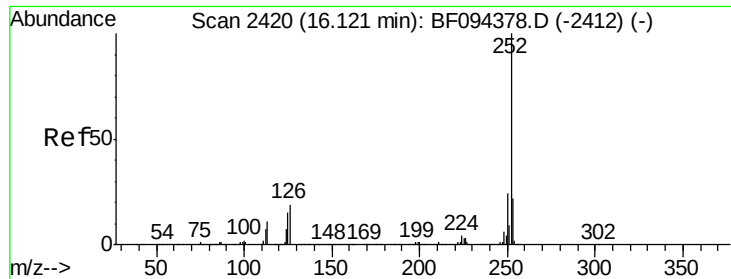
mohammad
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#88
Benzo(k)fluoranthene
Concen: 8.66 ng m
RT: 15.74 min Scan# 2356
Delta R.T. -0.06 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.4	27.6
125	15.6	13.1	19.7





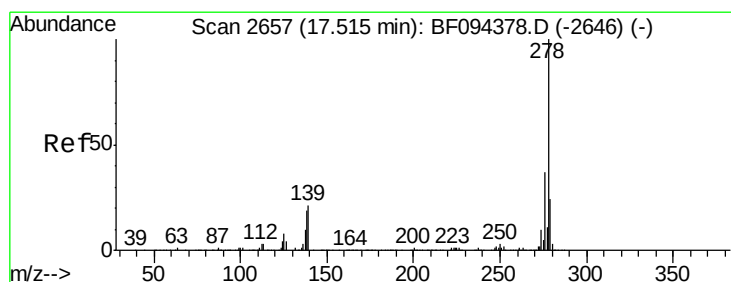
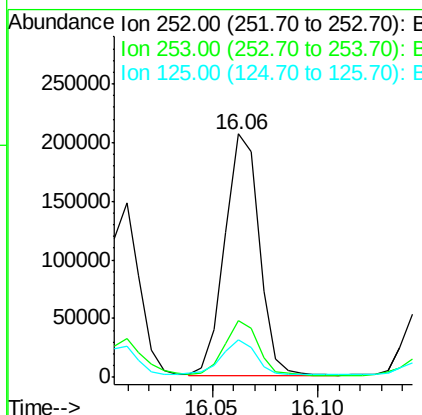
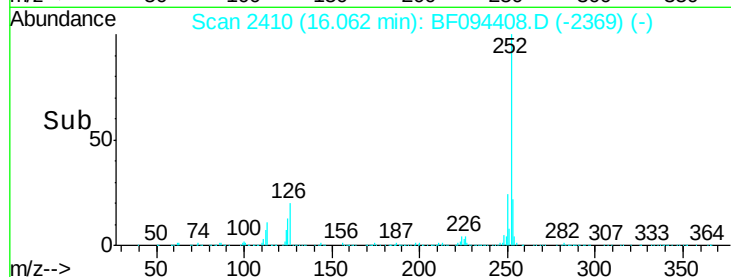
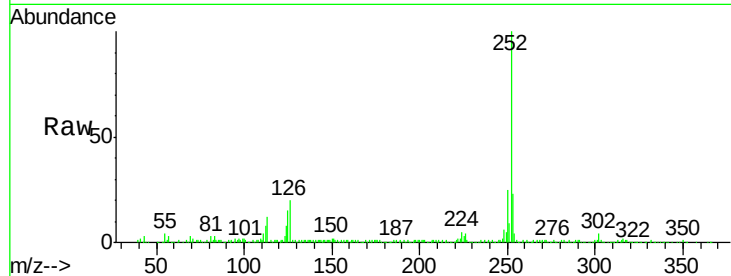
#89
Benzo(a)pyrene
Concen: 19.18 ng
RT: 16.06 min Scan# 2410
Delta R.T. -0.06 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	15.2	11.0	16.4

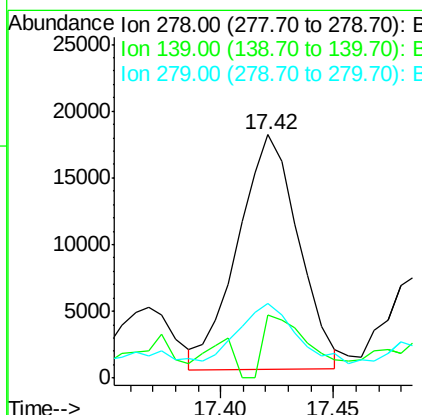
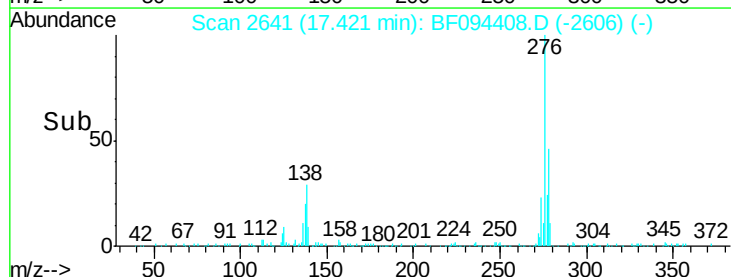
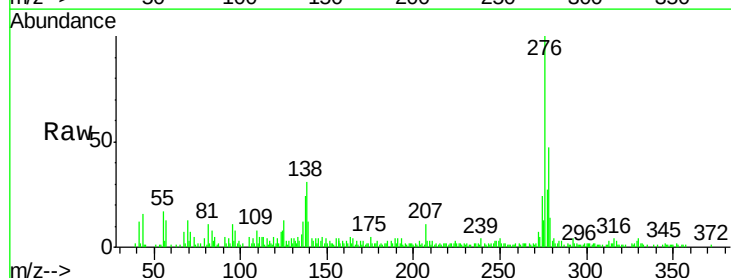
Manual Integrations
APPROVED

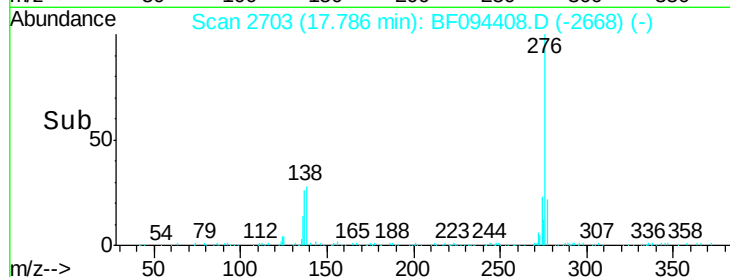
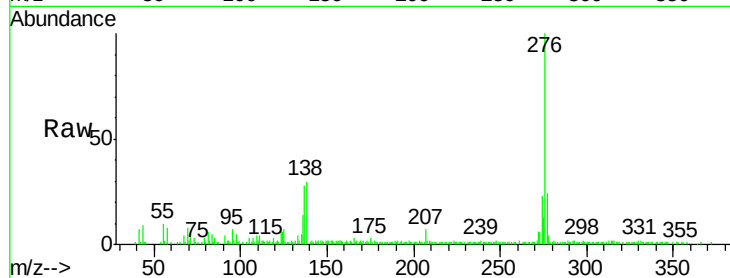
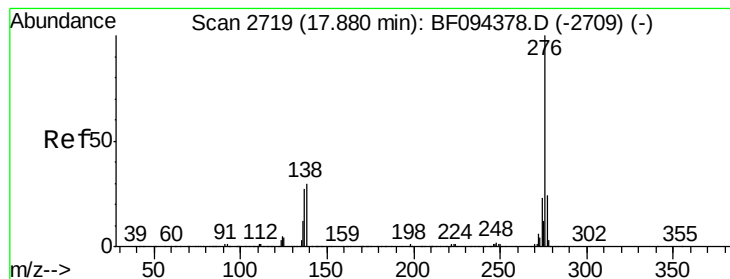
mohammad
4/14/2017 1:36:51 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.20 ng m
RT: 17.42 min Scan# 2641
Delta R.T. -0.09 min
Lab File: BF094408.D
Acq: 13 Apr 2017 23:24

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.0	16.6	24.8#
279	30.5	19.3	28.9#





#91

Benzo(a,h,i)perylene

Concen: 10.92 ng

RT: 17.79 min Scan# 2703

Delta R.T. -0.09 min

Lab File: BF094408.D

Acq: 13 Apr 2017 23:24

Tot Ion:	276	Resp:	113407
Ion Ratio	Lower	Upper	
276	100		
277	24.3	18.6	28.0
138	30.1	25.4	38.0

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-R4

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:51 PM

