

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082335.D
 Acq On : 16 Oct 2015 19:44
 Operator : UM/IZ
 Sample : G4051-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015

Manual Integrations
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Quant Time: Oct 19 01:31:05 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 17 01:08:23 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	54608m	20.00	ng	0.09
21) Naphthalene-d8	8.21	136	262797	20.00	ng	0.08
38) Acenaphthene-d10	9.95	164	141074	20.00	ng	0.07
63) Phenanthrene-d10	11.44	188	259893	20.00	ng	0.07
75) Chrysene-d12	14.16	240	220818	20.00	ng	0.09
86) Perylene-d12	15.73	264	215660	20.00	ng	0.14

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.53	112	124387	45.97	ng	0.10
7) Phenol-d6	6.56	99	177859	50.51	ng	0.08
23) Nitrobenzene-d5	7.49	82	98631	25.20	ng	0.07
41) 2,4,6-Tribromophenol	10.74	330	119975	90.68	ng	0.06
44) 2-Fluorobiphenyl	9.28	172	287822	33.83	ng	0.07
78) Terphenyl-d14	13.03	244	539830	64.78	ng	0.07

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.23	128	46005	4.04	ng	98
37) 2-Methylnaphthalene	8.91	142	17755	2.25	ng	99
48) Acenaphthylene	9.82	152	211514	16.03	ng	98
49) Dimethylphthalate	9.67	163	113486	11.42	ng	99
51) Acenaphthene	9.99	154	53185	6.72	ng	99
54) Dibenzofuran	10.16	168	96655	8.89	ng	96
57) Fluorene	10.50	166	134611	15.07	ng	99
70) Phenanthrene	11.47	178	1547683	121.49	ng	98
71) Anthracene	11.52	178	446644	34.02	ng	99
72) Carbazole	11.68	167	162066	13.53	ng	97
74) Fluoranthene	12.66	202	1759899	128.63	ng	95
77) Pyrene	12.90	202	1584556	120.92	ng	98
80) Benzo(a)anthracene	14.15	228	834550	72.64	ng	96
82) Chrysene	14.18	228	734522	60.67	ng	98
85) Indeno(1,2,3-cd)pyrene	17.22	276	390287	40.56	ng	96
87) Benzo(b)fluoranthene	15.29	252	859931m	65.54	ng	
88) Benzo(k)fluoranthene	15.30	252	337827m	30.63	ng	
89) Benzo(a)pyrene	15.67	252	621061m	55.08	ng	
90) Dibenzo(a,h)anthracene	17.22	278	103736m	11.23	ng	
91) Benzo(a,h,i)perylene	17.67	276	364591	40.61	ng	99

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

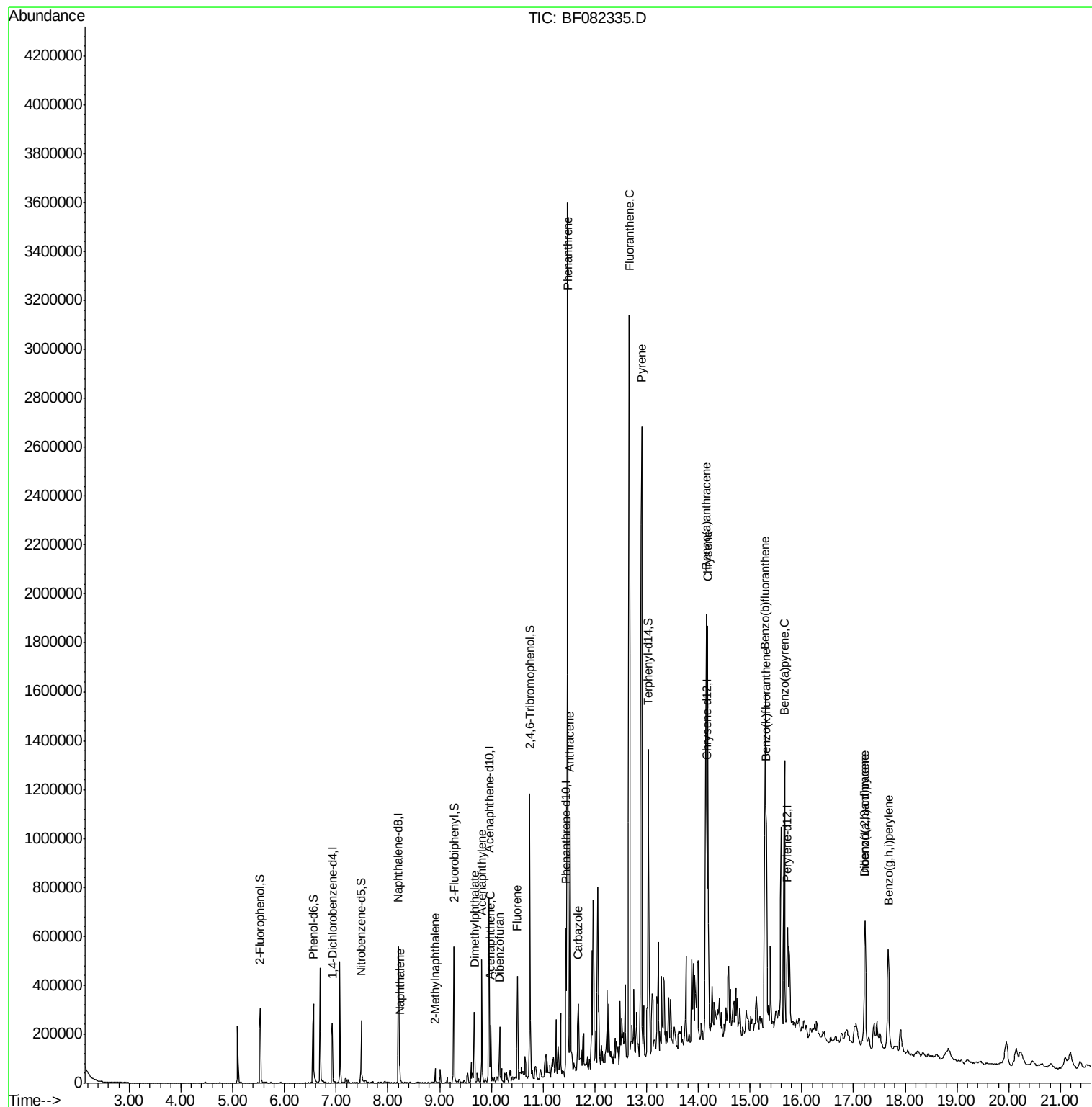
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082335.D
Acq On : 16 Oct 2015 19:44
Operator : UM/IZ
Sample : G4051-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

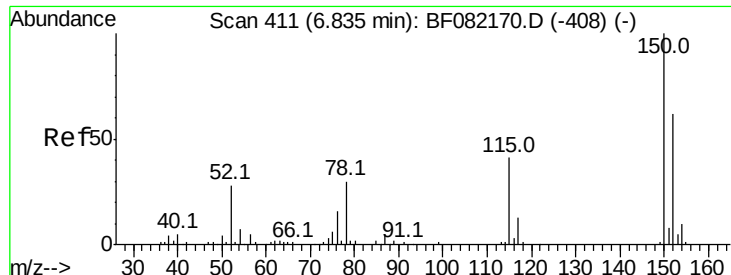
Instrument :
BNA_F
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Quant Time: Oct 19 01:31:05 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Oct 17 01:08:23 2015
Response via : Initial Calibration

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#1

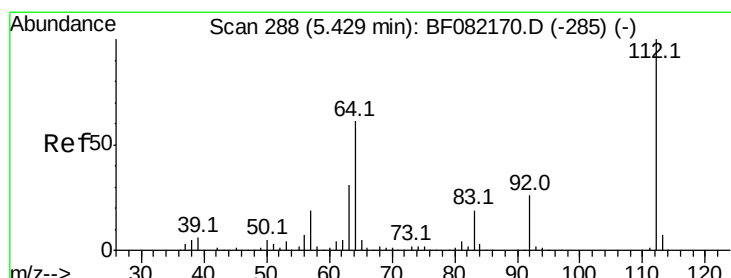
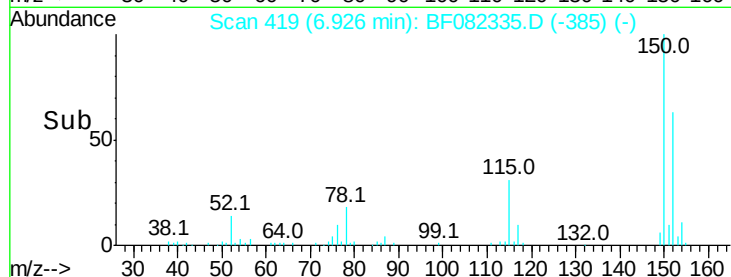
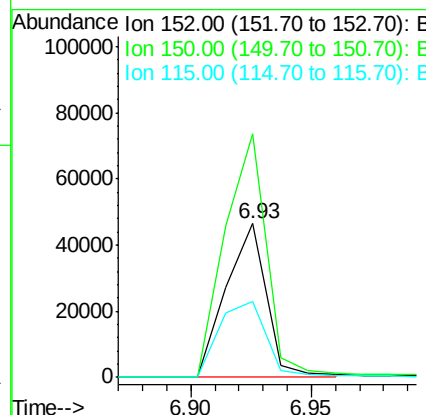
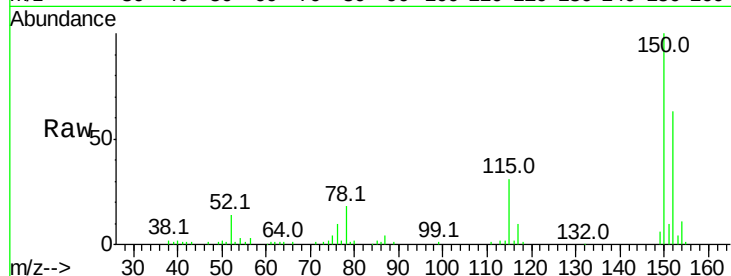
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/mL
RT: 6.93 min Scan# 419
Delta R.T. 0.09 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Instrument :
BNA_F
ClientSampleID :
TK1-5-20151015

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.7	129.0	193.4
115	49.9	52.1	78.1#

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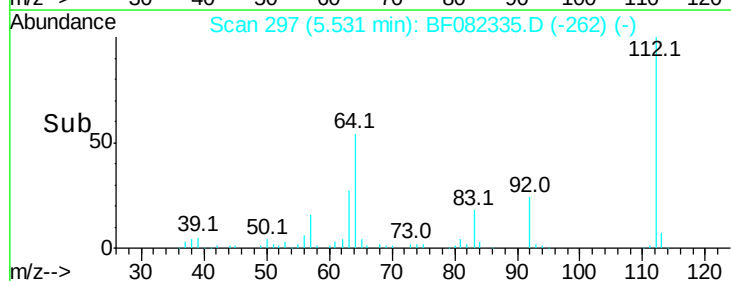
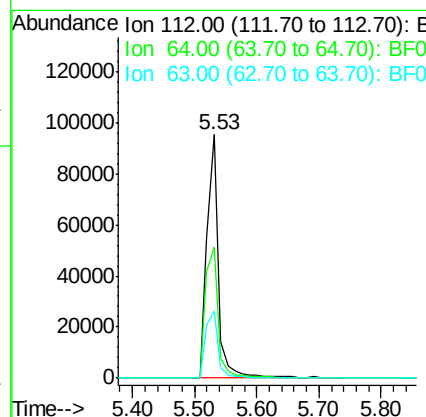
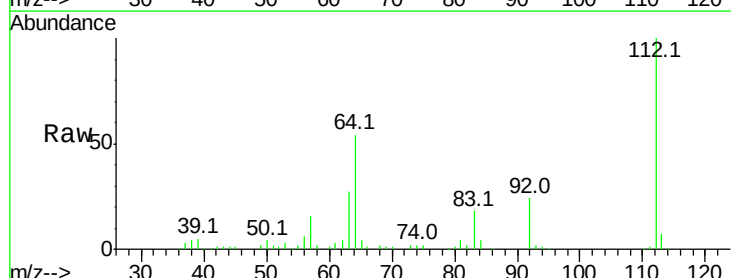
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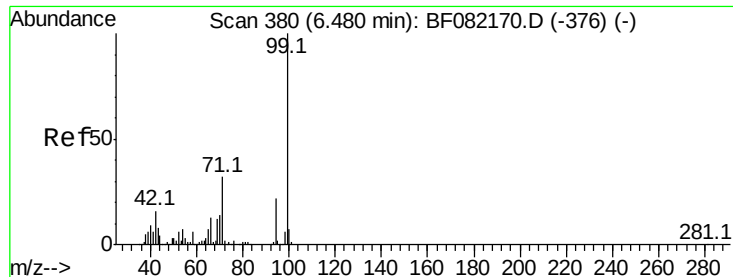


#5

2-Fluorophenol
Concen: 45.97 ng
RT: 5.53 min Scan# 297
Delta R.T. 0.10 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	48.6	73.0
63	27.4	25.1	37.7





#7

Phenol-d6

Concen: 50.51 ng

RT: 6.56 min Scan# 387

Delta R.T. 0.08 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Instrument :

BNA_F

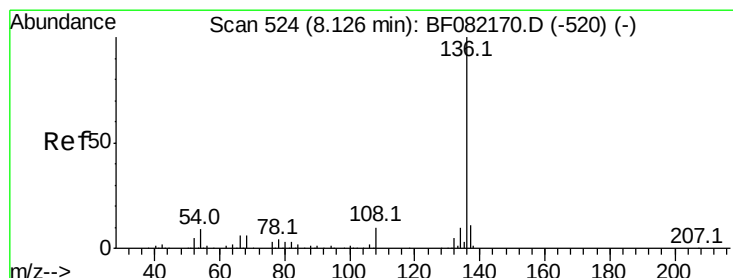
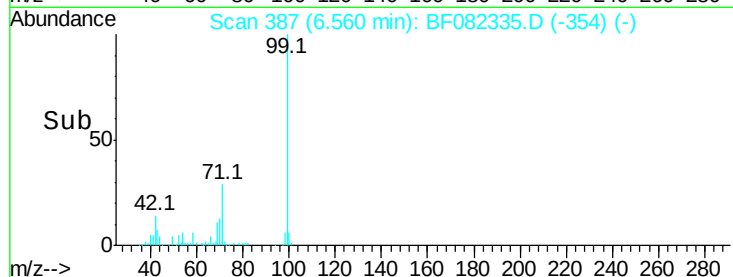
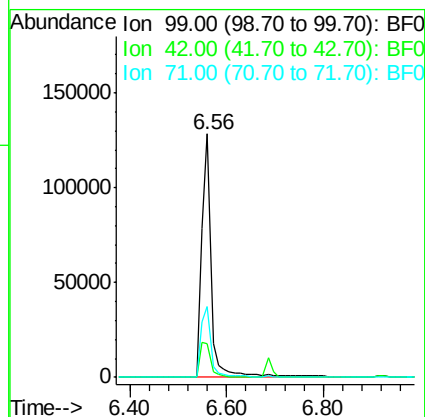
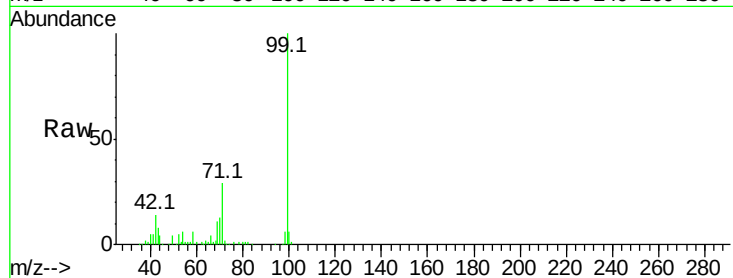
ClientSampleId :

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		177859		
42	13.6	13.2	19.8		
71	29.2	25.6	38.4		



#21

Naphthalene-d8

Concen: 20.00 ng

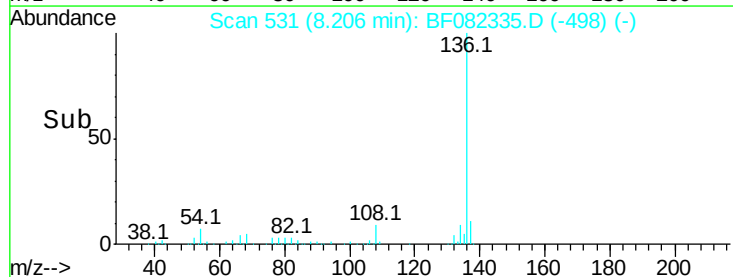
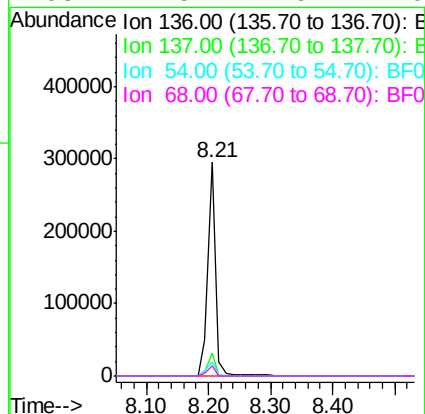
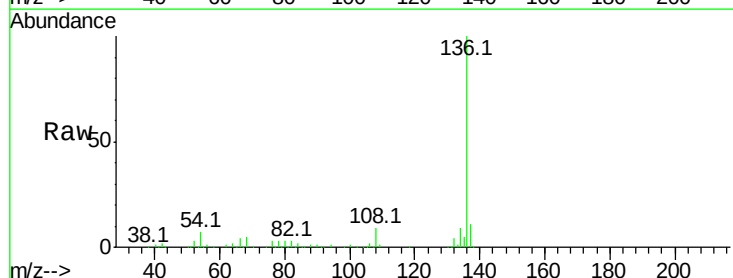
RT: 8.21 min Scan# 531

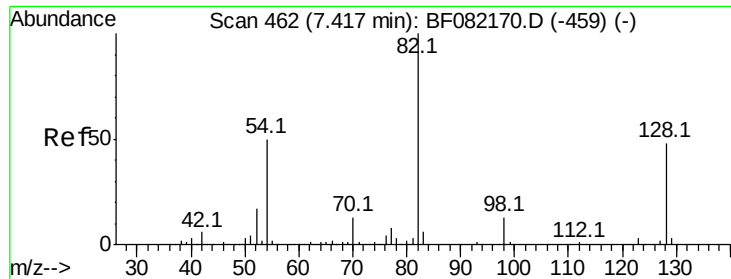
Delta R.T. 0.08 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		262797		
137	10.6	9.0	13.6		
54	6.9	7.5	11.3#		
68	4.5	4.6	7.0#		





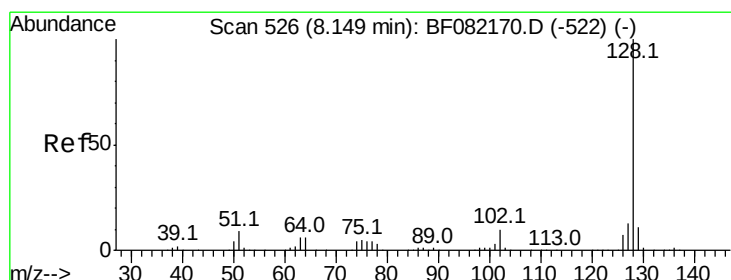
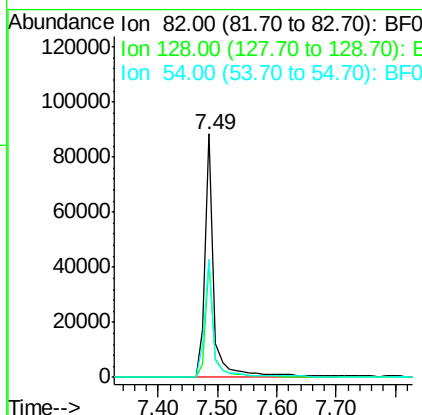
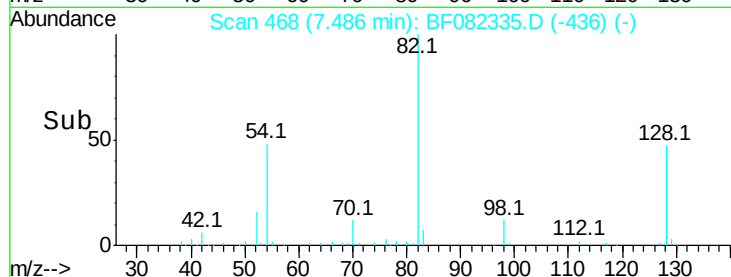
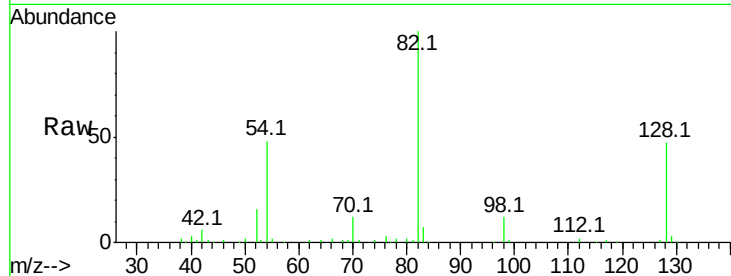
#23
Nitrobenzene-d5
Concen: 25.20 ng
RT: 7.49 min Scan# 468
Delta R.T. 0.07 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.9	38.7	58.1
54	48.4	40.1	60.1

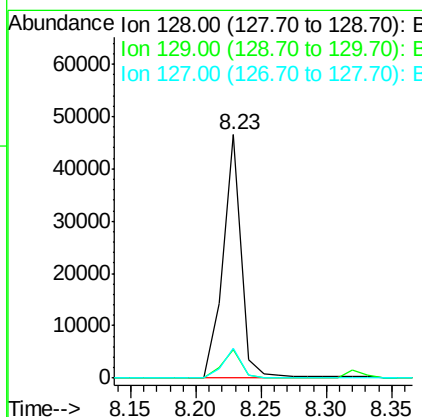
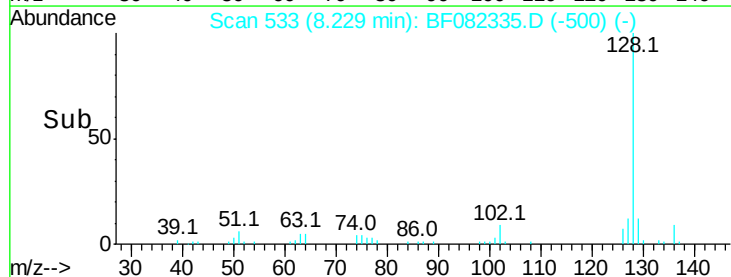
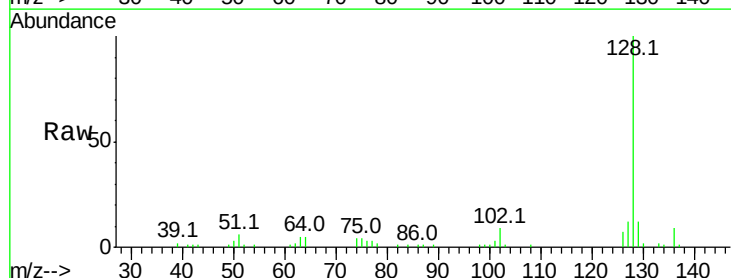
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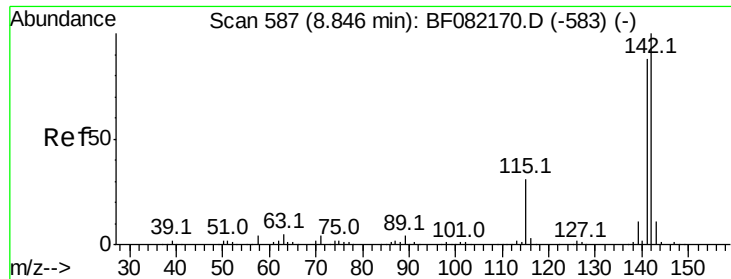
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#31
Naphthalene
Concen: 4.04 ng
RT: 8.23 min Scan# 533
Delta R.T. 0.08 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.1	13.7
127	12.1	10.7	16.1





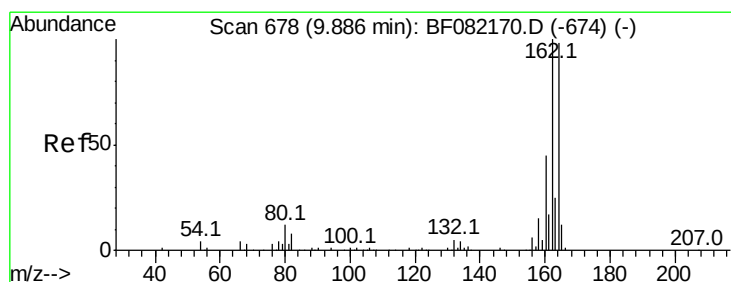
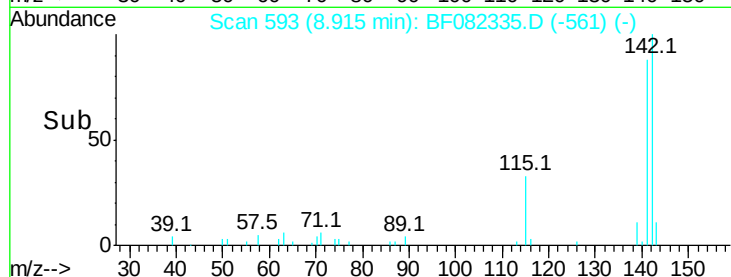
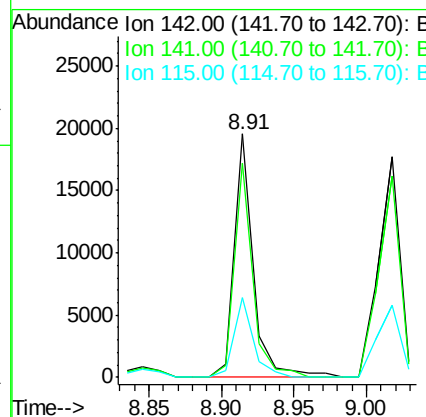
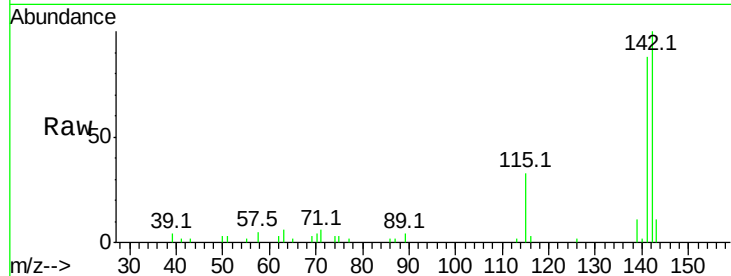
#37
2-Methylnaphthalene
Concen: 2.25 ng
RT: 8.91 min Scan# 593
Delta R.T. 0.07 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.4	105.6
115	32.8	24.6	37.0

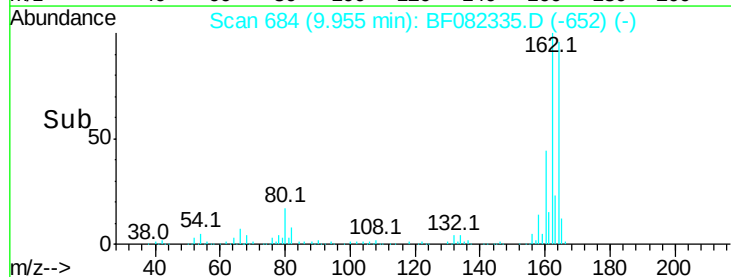
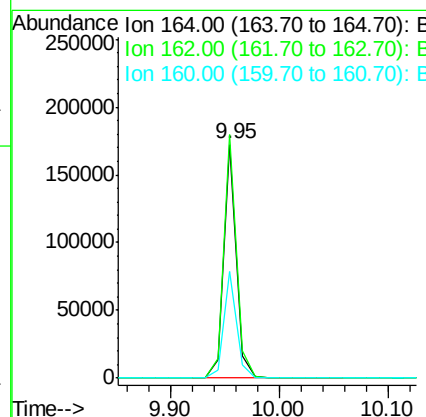
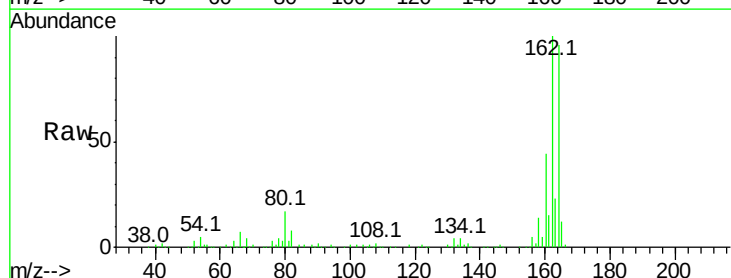
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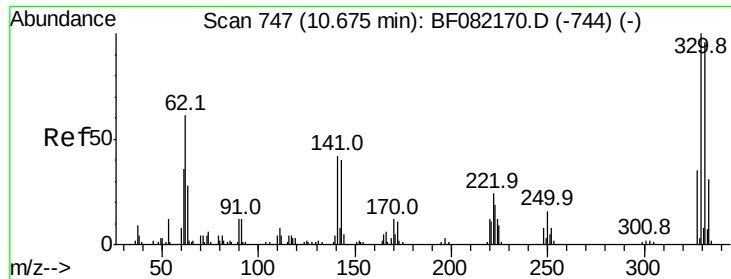
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.95 min Scan# 684
Delta R.T. 0.07 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	81.6	122.4
160	45.6	36.4	54.6





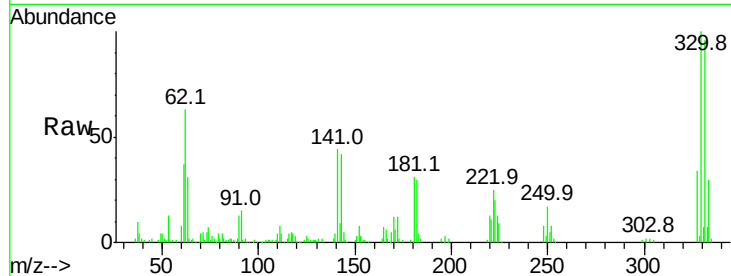
#41
 2,4,6-Tribromophenol
 Concen: 90.68 ng
 RT: 10.74 min Scan# 753
 Delta R.T. 0.06 min
 Lab File: BF082335.D
 Acq: 16 Oct 2015 19:44

Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015

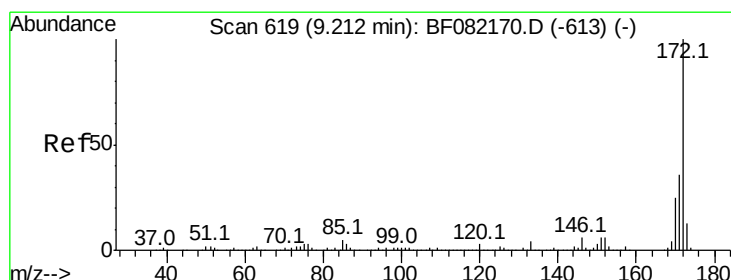
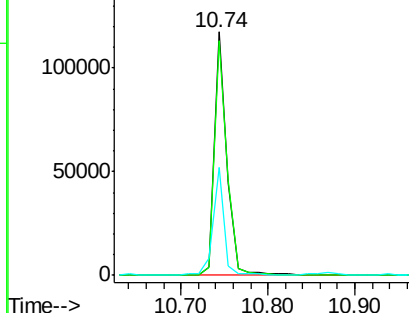
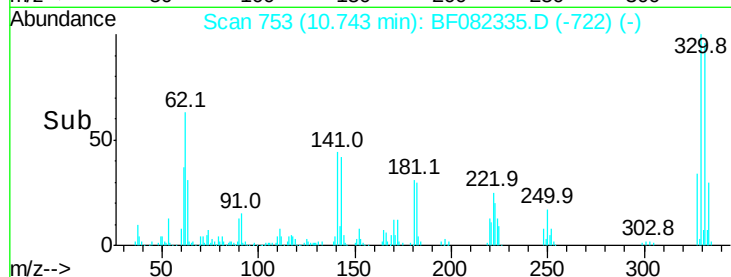
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.2	77.1	115.7	
141	40.3	29.8	44.8	

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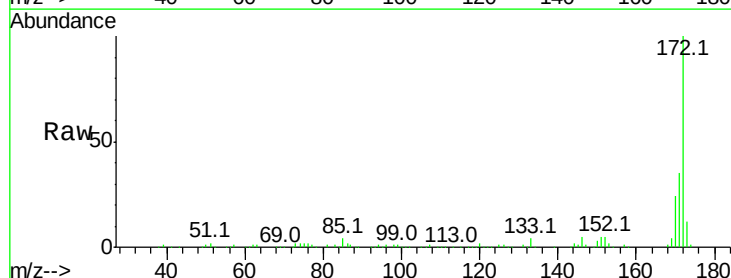


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

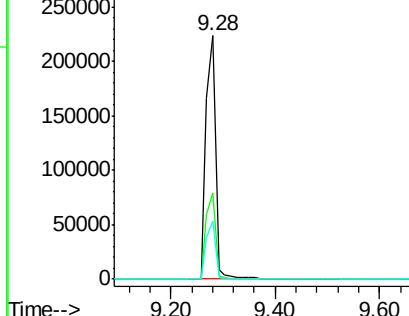
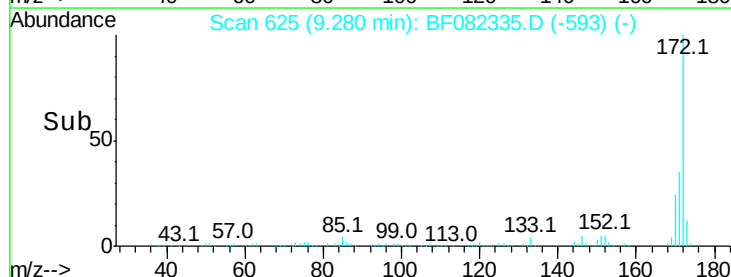


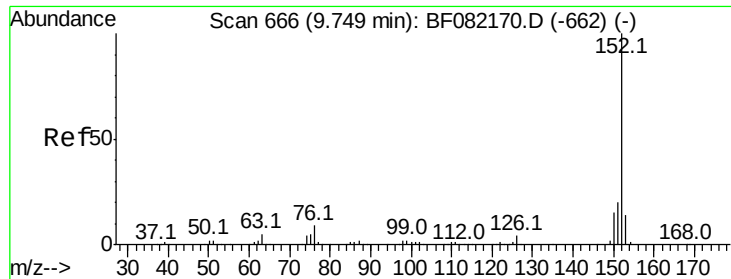
#44
 2-Fluorobiphenyl
 Concen: 33.83 ng
 RT: 9.28 min Scan# 625
 Delta R.T. 0.07 min
 Lab File: BF082335.D
 Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.1	28.6	42.8	
170	23.7	19.7	29.5	



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





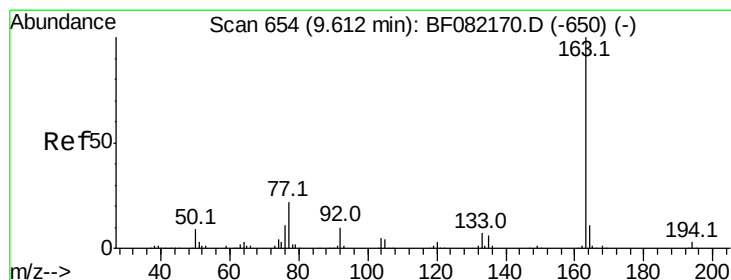
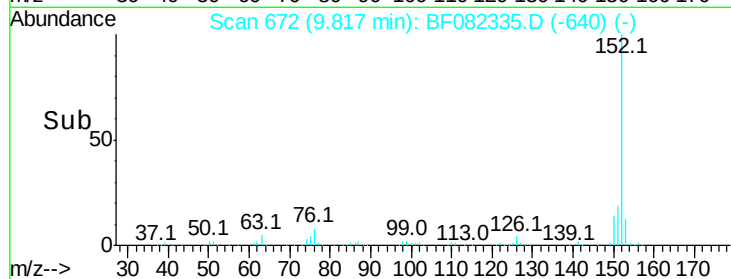
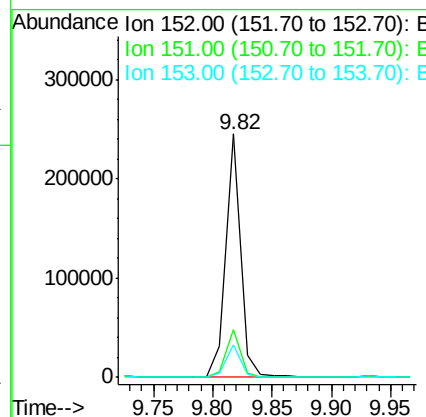
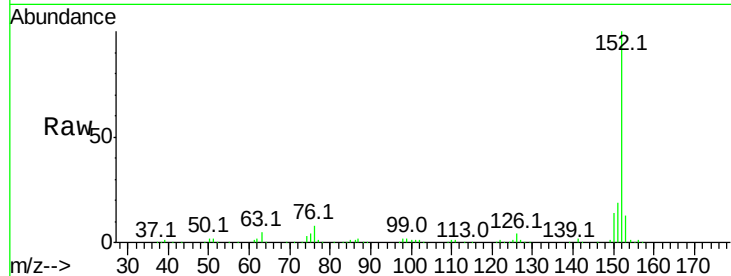
#48
Acenaphthylene
Concen: 16.03 ng
RT: 9.82 min Scan# 672
Delta R.T. 0.07 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
152	100	211514		
151	19.4		16.4	24.6
153	13.4		10.8	16.2

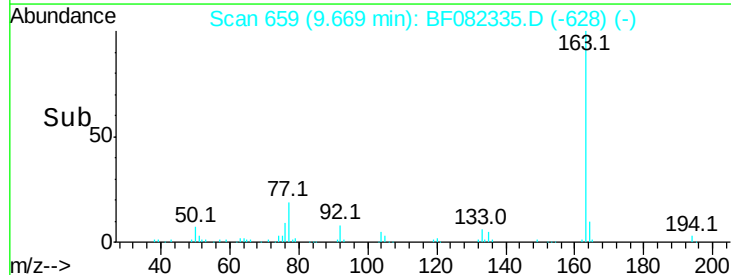
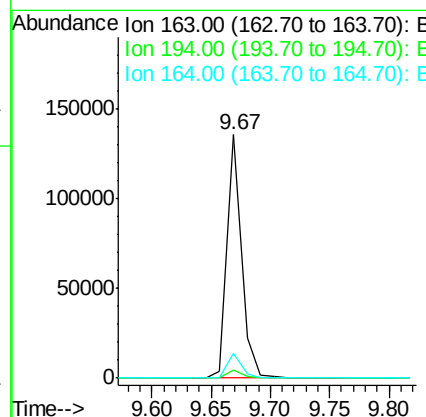
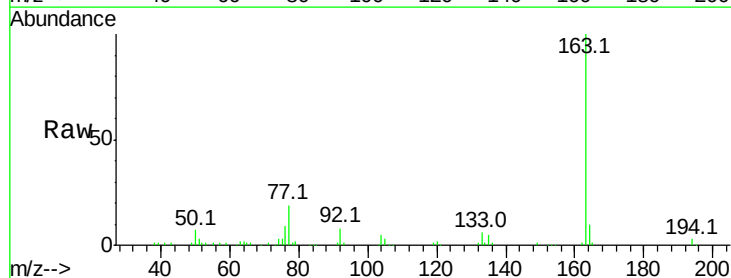
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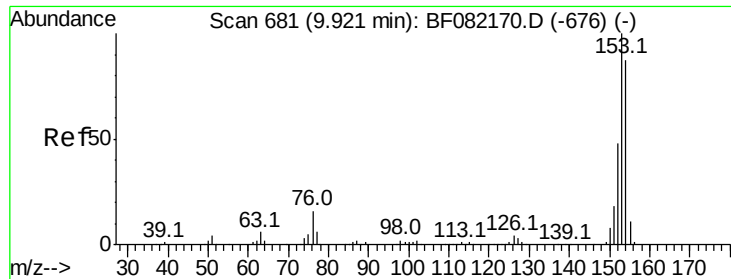
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#49
Dimethylphthalate
Concen: 11.42 ng
RT: 9.67 min Scan# 659
Delta R.T. 0.06 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	113486		
194	3.3		2.6	4.0
164	10.0		8.5	12.7





#51

Acenaphthene

Concen: 6.72 ng

RT: 9.99 min Scan# 687

Delta R.T. 0.07 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Instrument :

BNA_F

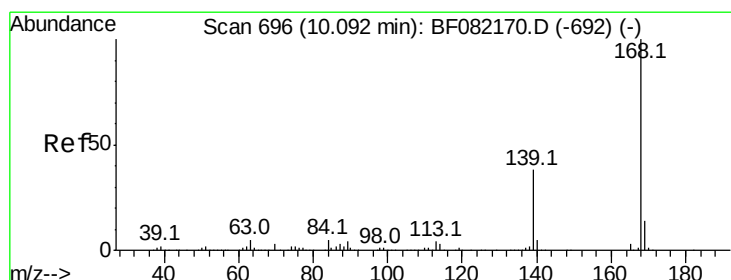
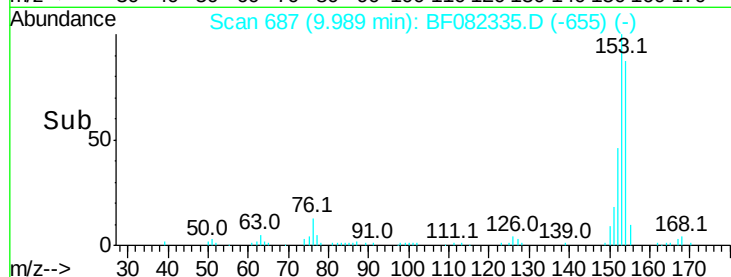
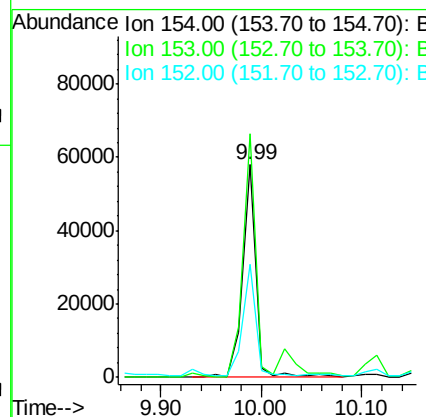
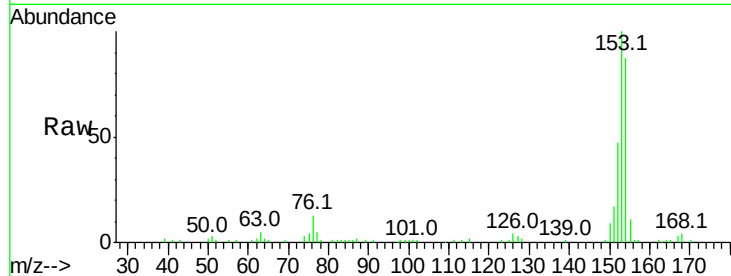
ClientSampleId :

TK1-5-20151015

Tot Ion:	154	Resp:	53185
Ion Ratio	Lower	Upper	
154	100		
153	114.7	91.4	137.2
152	53.5	44.3	66.5

Manual Integrations
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#54

Dibenzofuran

Concen: 8.89 ng

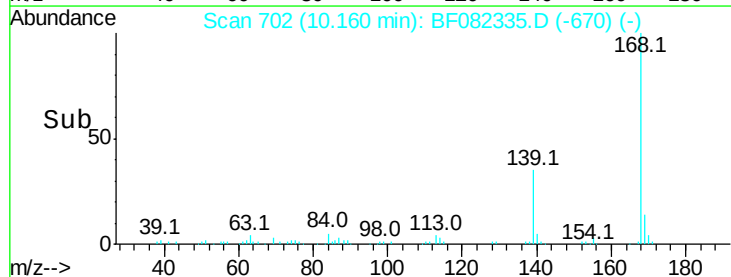
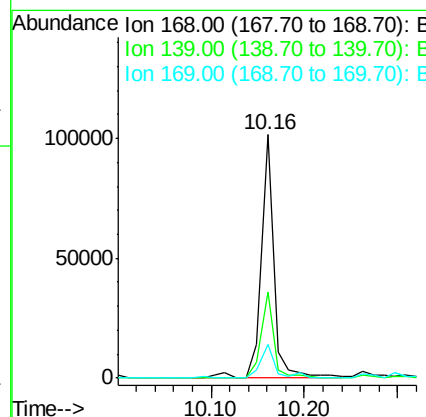
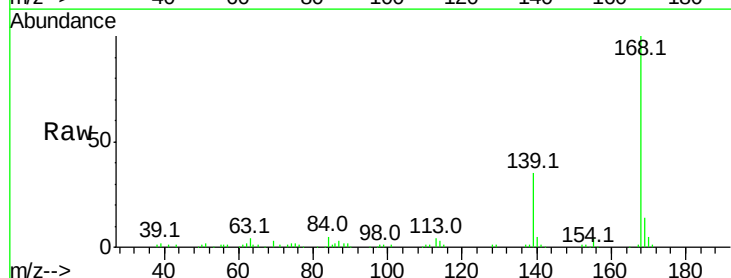
RT: 10.16 min Scan# 702

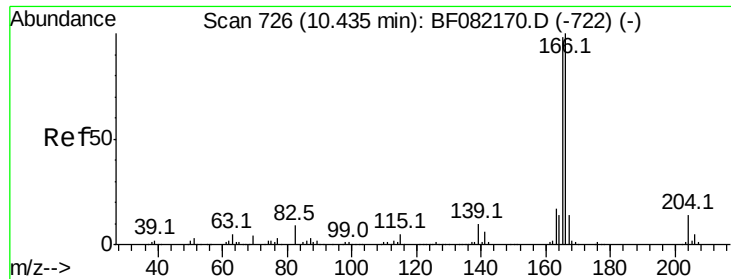
Delta R.T. 0.07 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Tgt Ion:	168	Resp:	96655
Ion Ratio	Lower	Upper	
168	100		
139	35.4	31.0	46.6
169	13.9	10.9	16.3





#57

Fluorene

Concen: 15.07 ng

RT: 10.50 min Scan# 732

Delta R.T. 0.07 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Instrument :

BNA_F

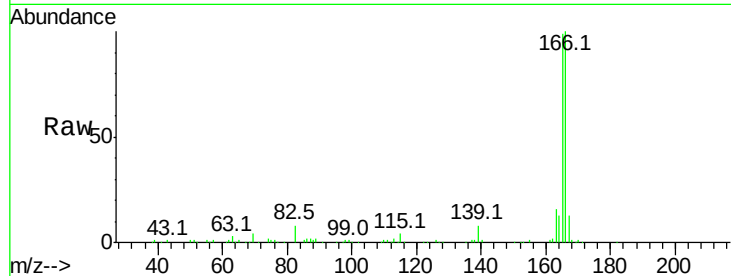
ClientSampleId :

TK1-5-20151015

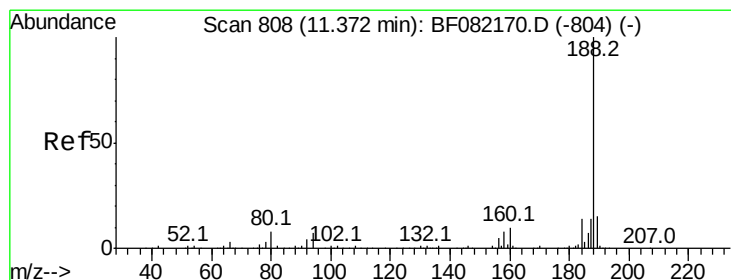
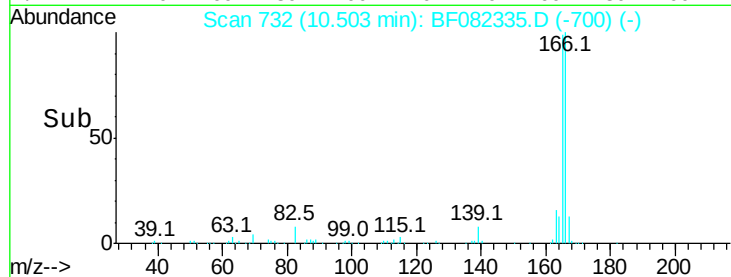
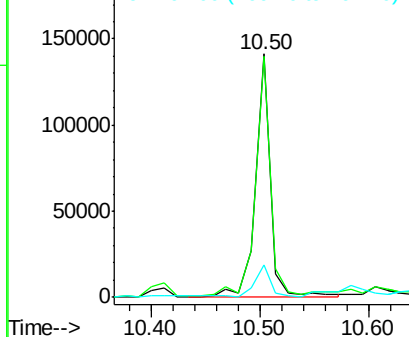
Tot Ion:	166	Resp:	134611
Ion Ratio	Lower	Upper	
166	100		
165	99.0	78.3	117.5
167	13.1	10.8	16.2

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Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

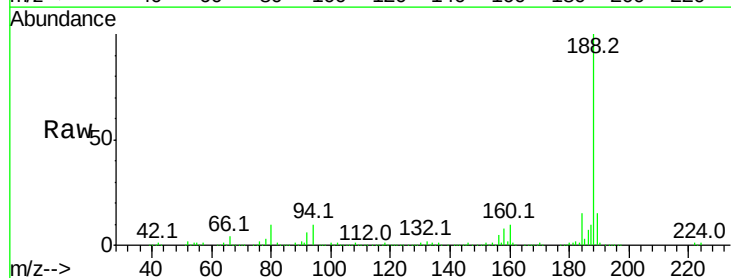
RT: 11.44 min Scan# 814

Delta R.T. 0.07 min

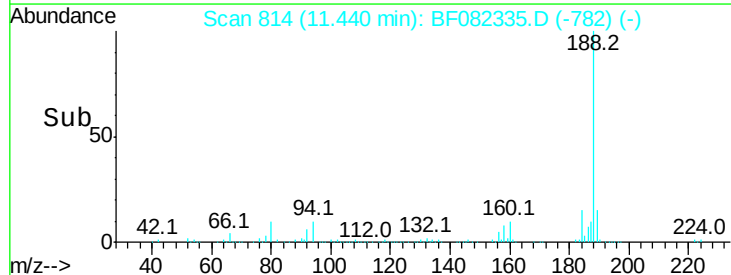
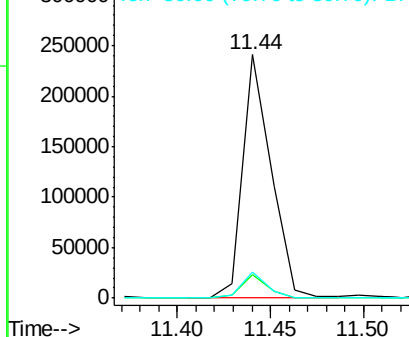
Lab File: BF082335.D

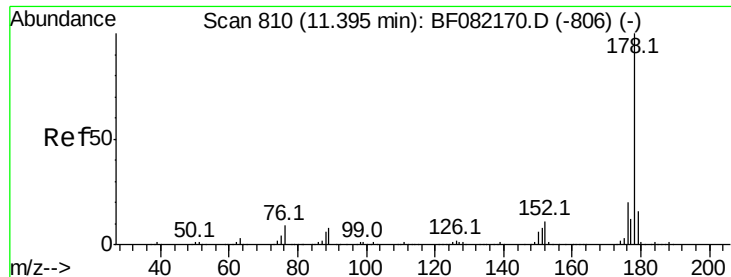
Acq: 16 Oct 2015 19:44

Tgt Ion:	188	Resp:	259893
Ion Ratio	Lower	Upper	
188	100		
94	9.7	5.8	8.6#
80	10.5	6.4	9.6#



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 121.49 ng

RT: 11.47 min Scan# 817

Delta R.T. 0.08 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015

Tot Ion:178 Resp: 1547683

Ion Ratio Lower Upper

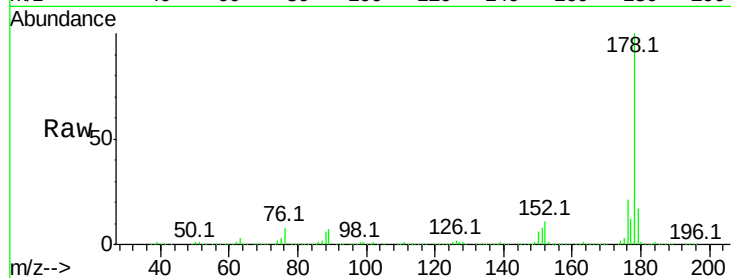
178 100

176 20.8 16.0 24.0

179 16.6 12.6 19.0

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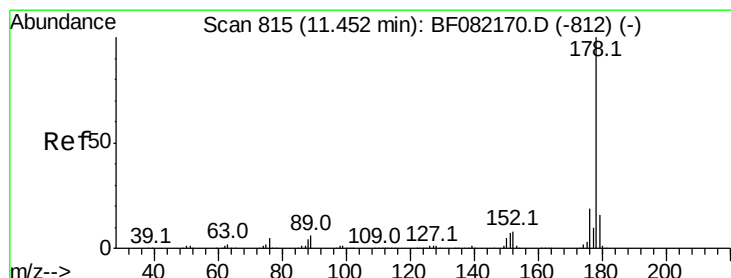
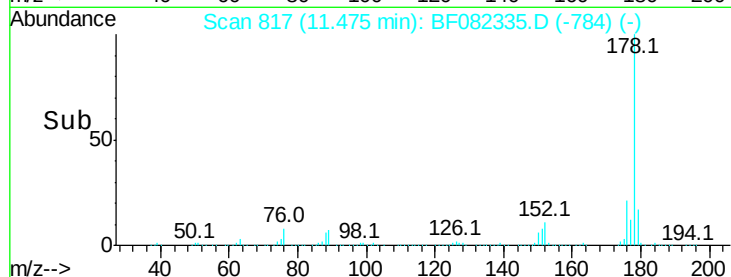
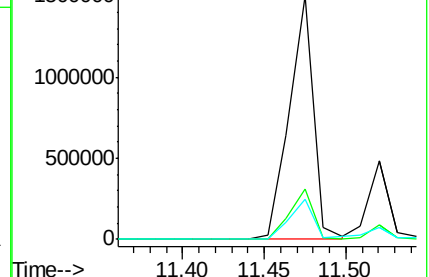
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 34.02 ng

RT: 11.52 min Scan# 821

Delta R.T. 0.07 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Tgt Ion:178 Resp: 446644

Ion Ratio Lower Upper

178 100

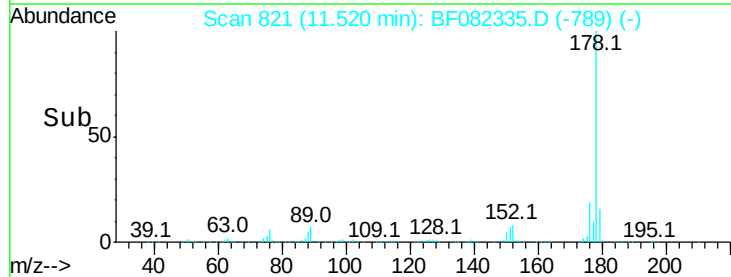
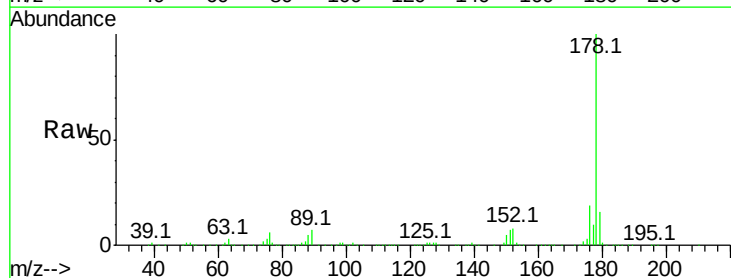
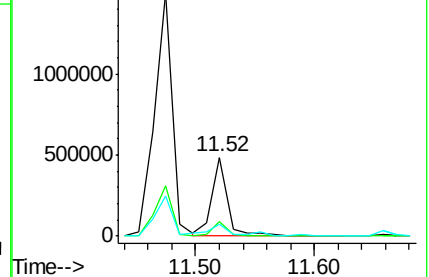
176 18.9 15.4 23.0

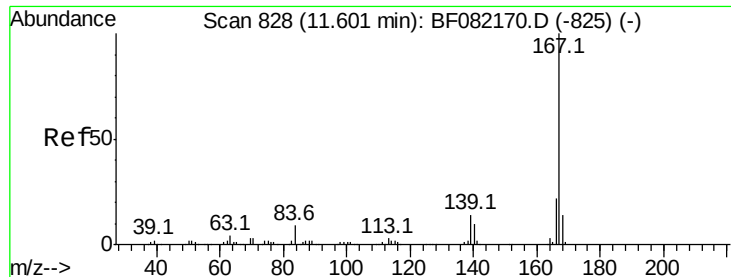
179 15.8 12.5 18.7

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





#72

Carbazole

Concen: 13.53 ng

RT: 11.68 min Scan# 835

Delta R.T. 0.07 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Instrument :

BNA_F

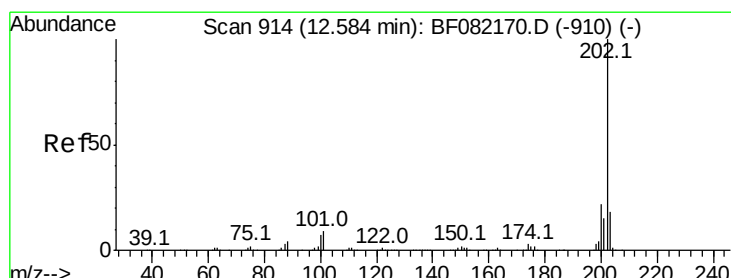
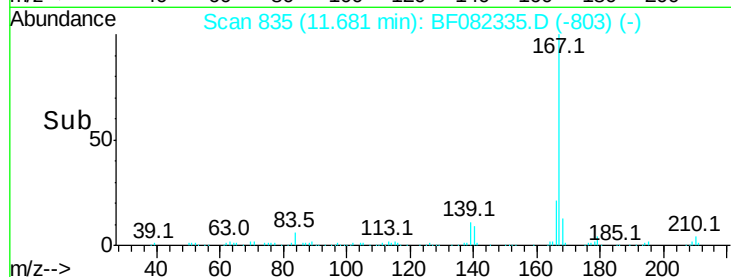
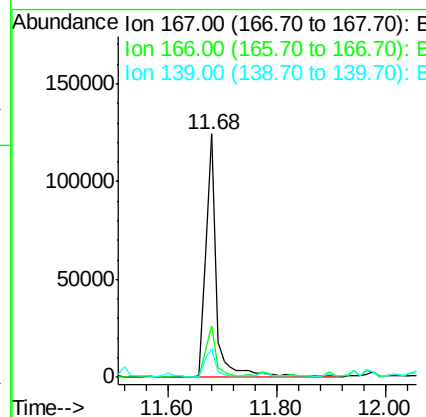
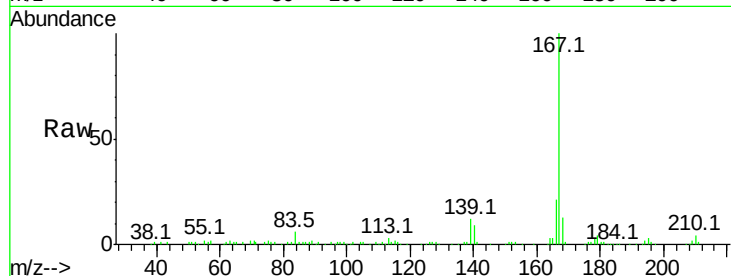
ClientSampleId :

TK1-5-20151015

Tot Ion:	167	Resp:	162066
Ion Ratio	Lower	Upper	
167	100		
166	21.1	17.3	25.9
139	11.6	11.2	16.8

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#74

Fluoranthene

Concen: 128.63 ng

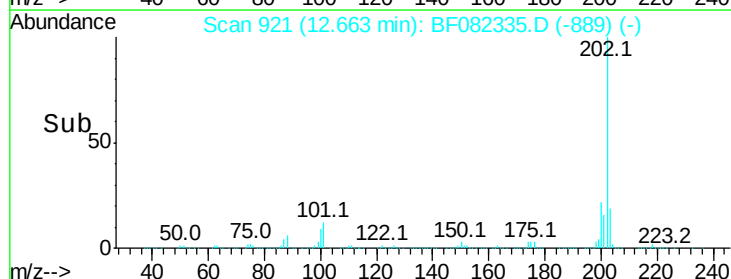
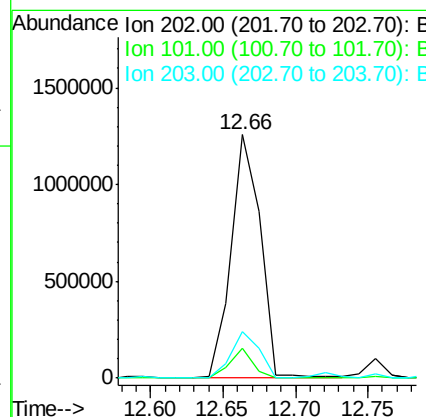
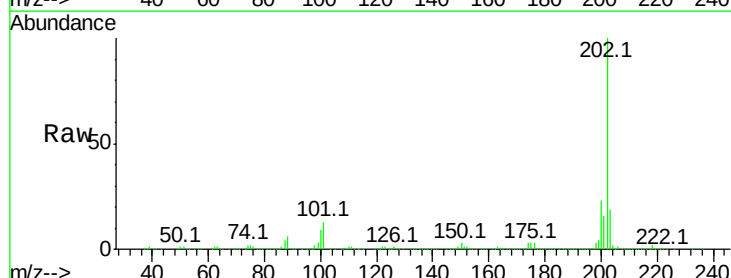
RT: 12.66 min Scan# 921

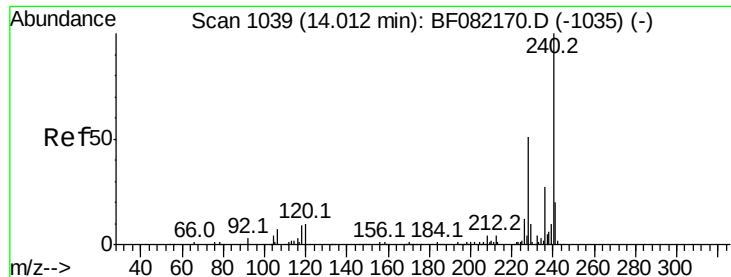
Delta R.T. 0.07 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Tgt Ion:	202	Resp:	1759899
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	29.3
203	19.0	0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.16 min Scan# 1052

Delta R.T. 0.09 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Instrument :

BNA_F

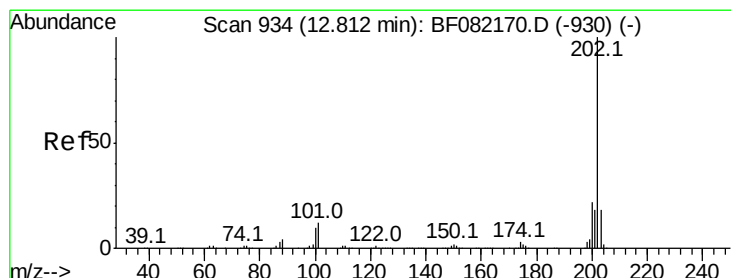
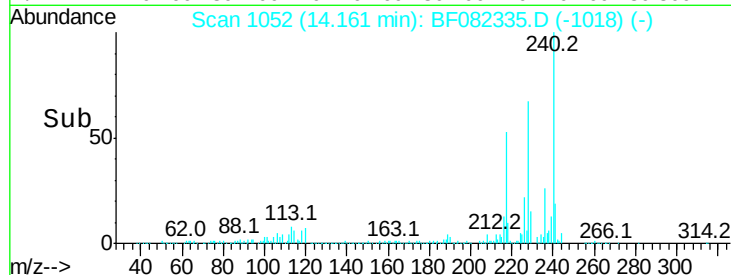
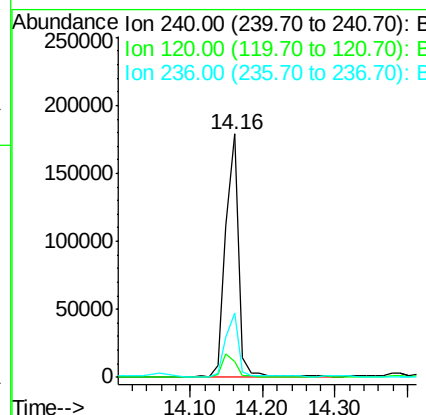
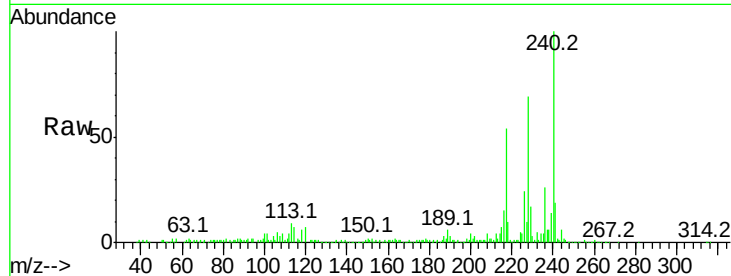
ClientSampleId :

TK1-5-20151015

Tot Ion:	240	Resp:	220818
Ion Ratio	Lower	Upper	
240	100		
120	6.7	8.1	12.1#
236	26.3	21.3	31.9

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#77

Pyrene

Concen: 120.92 ng

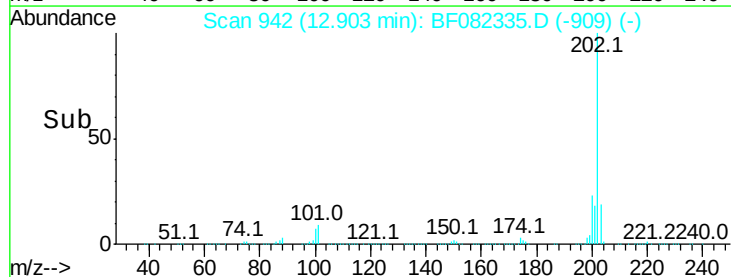
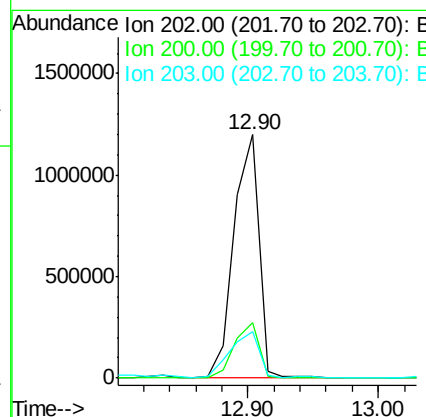
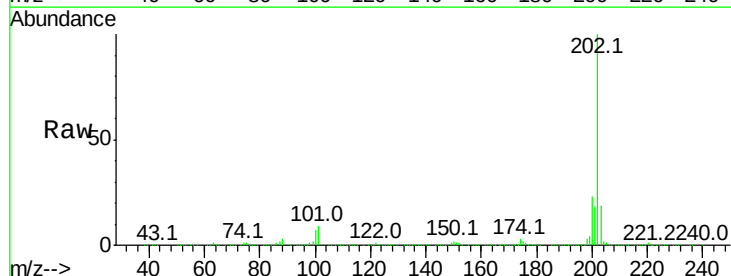
RT: 12.90 min Scan# 942

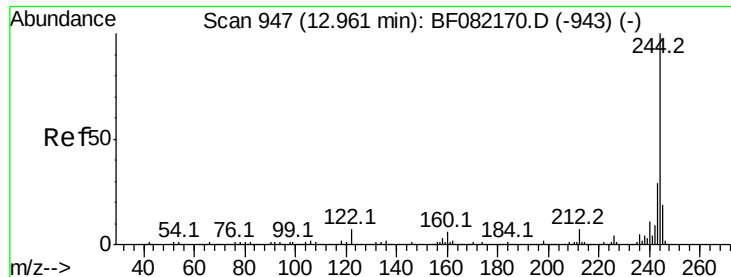
Delta R.T. 0.08 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Tgt Ion:	202	Resp:	1584556
Ion Ratio	Lower	Upper	
202	100		
200	22.8	17.9	26.9
203	19.3	14.5	21.7





#78

Terphenyl-d14

Concen: 64.78 ng

RT: 13.03 min Scan# 953

Delta R.T. 0.07 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Instrument :

BNA_F

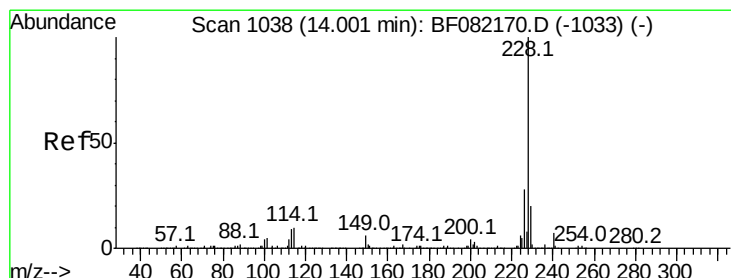
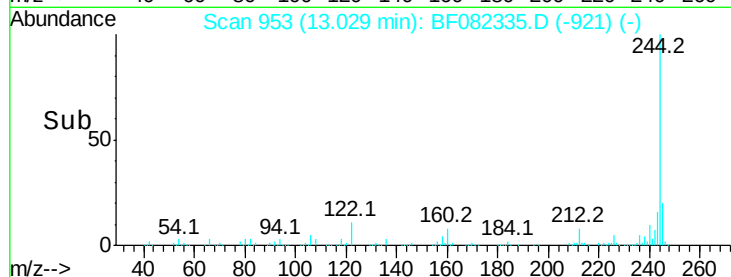
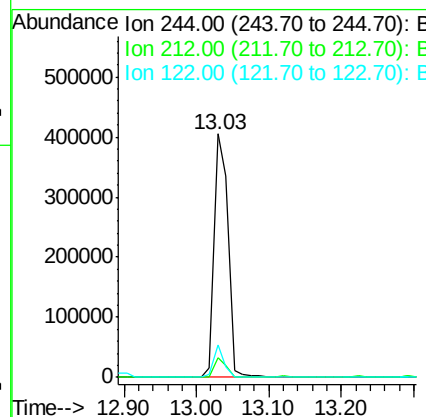
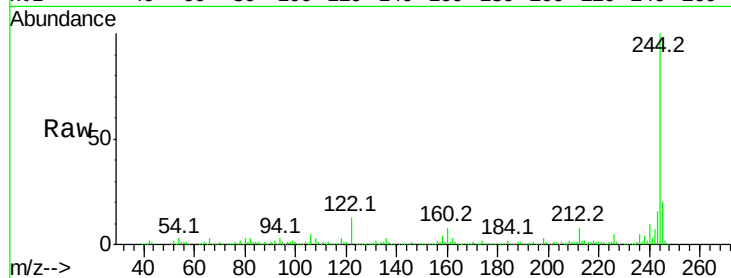
ClientSampleId :

TK1-5-20151015

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.0	5.8	8.6	
122	13.3	5.9	8.9#	

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#80

Benzo(a)anthracene

Concen: 72.64 ng

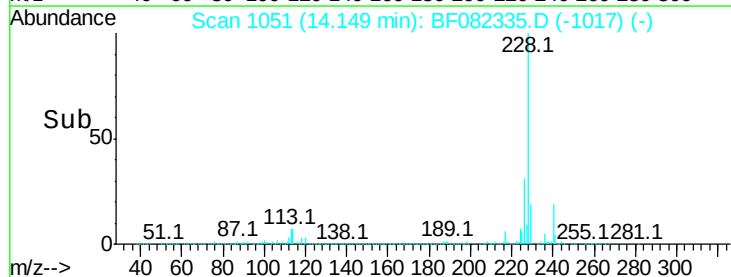
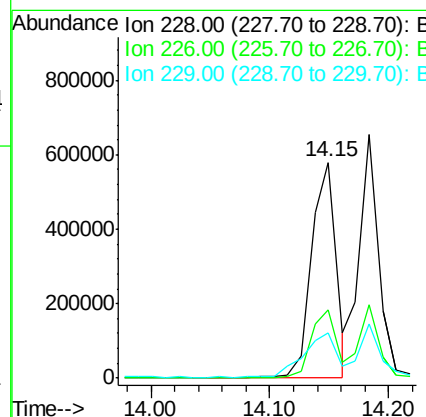
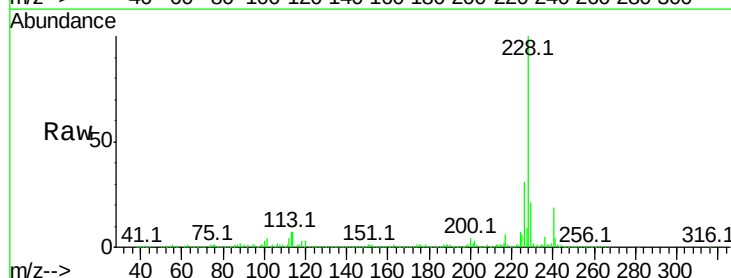
RT: 14.15 min Scan# 1051

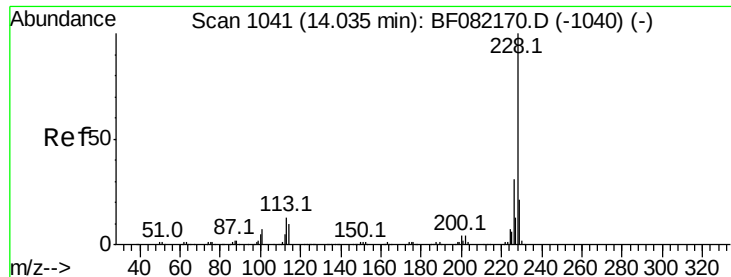
Delta R.T. 0.09 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	31.4	22.3	33.5	
229	20.7	16.2	24.2	





#82

Chrysene

Concen: 60.67 ng

RT: 14.18 min Scan# 1054

Delta R.T. 0.09 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Instrument :

BNA_F

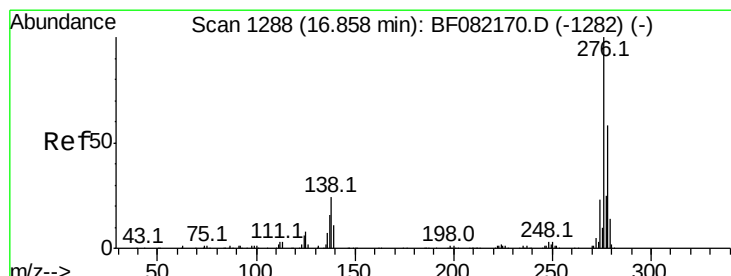
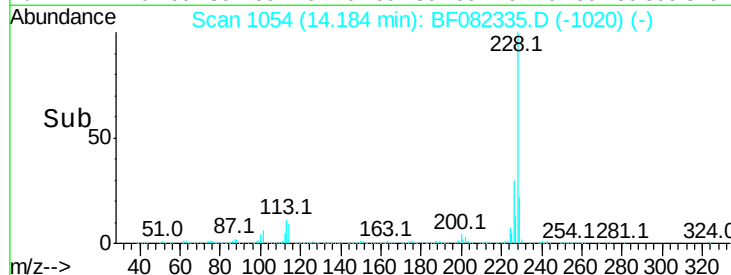
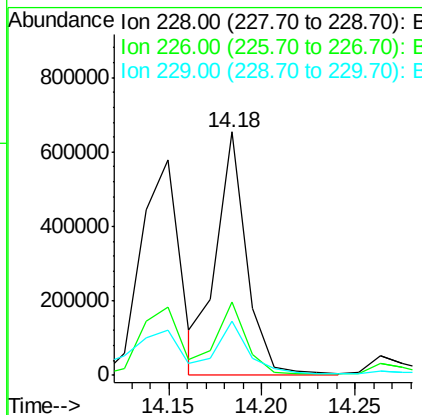
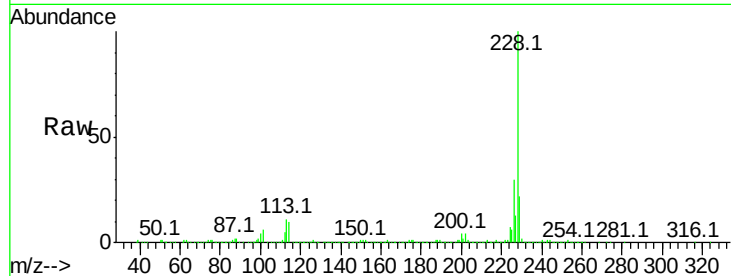
ClientSampleId :

TK1-5-20151015

Tot Ion:	228	Resp:	734522
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.4	36.6
229	22.5	16.3	24.5

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#85

Indeno(1,2,3-cd)pyrene

Concen: 40.56 ng

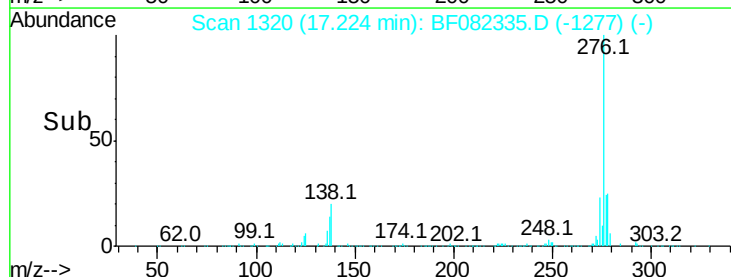
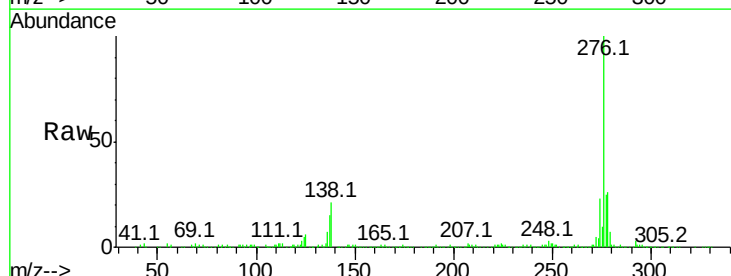
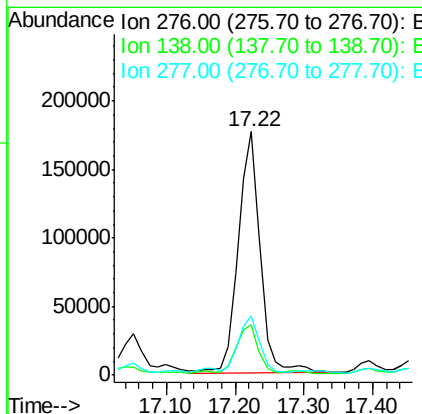
RT: 17.22 min Scan# 1320

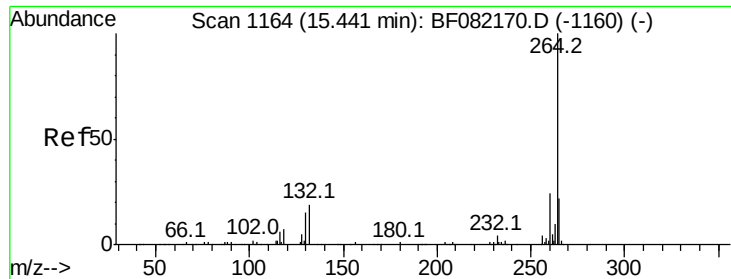
Delta R.T. 0.19 min

Lab File: BF082335.D

Acq: 16 Oct 2015 19:44

Tgt Ion:	276	Resp:	390287
Ion Ratio	Lower	Upper	
276	100		
138	21.6	19.7	29.5
277	24.2	20.1	30.1





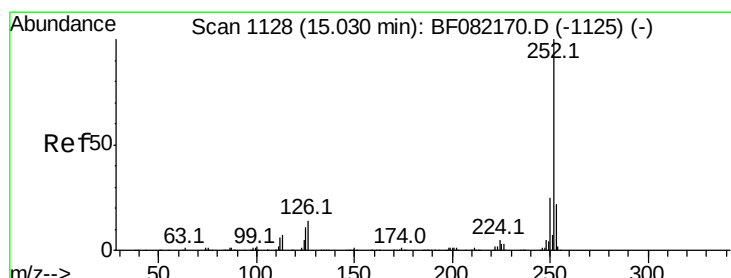
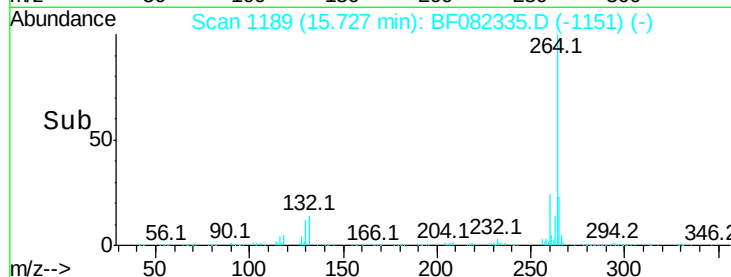
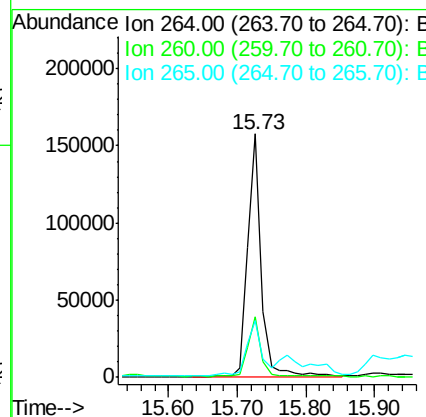
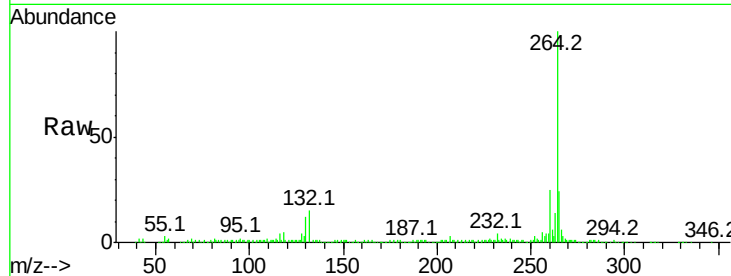
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.73 min Scan# 1189
Delta R.T. 0.14 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.0	28.6
265	23.5	17.3	25.9

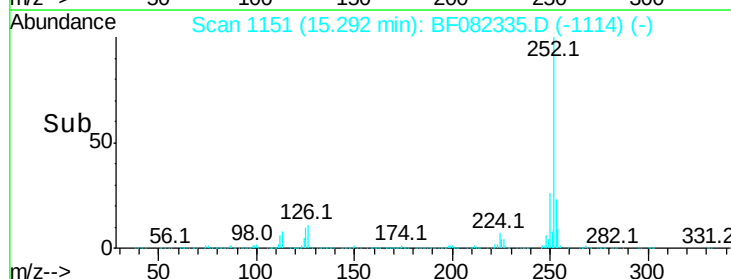
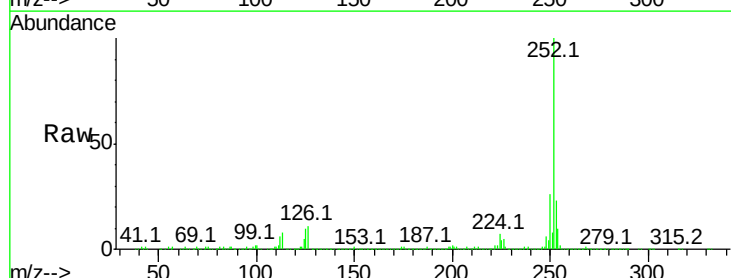
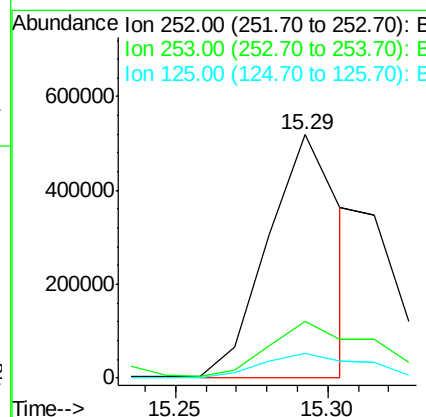
Manual Integrations
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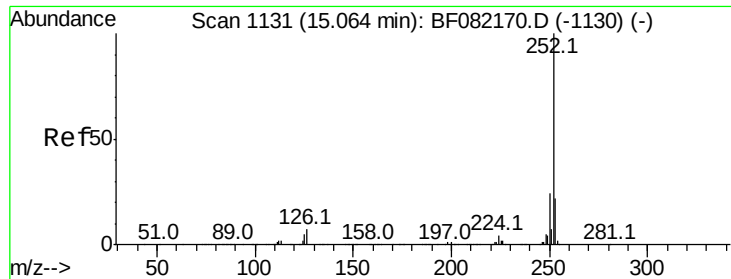
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#87
Benzo(b)fluoranthene
Concen: 65.54 ng m
RT: 15.29 min Scan# 1151
Delta R.T. 0.13 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	10.3	8.6	12.8





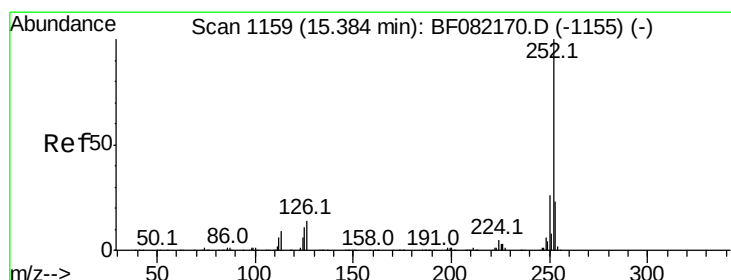
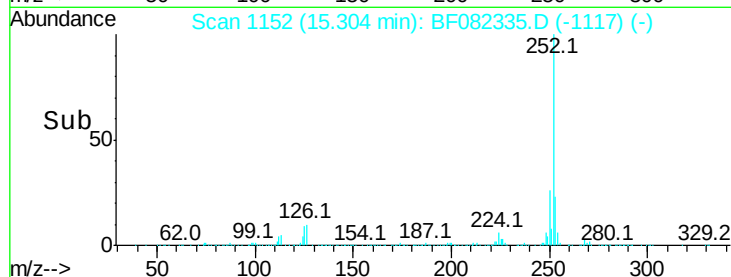
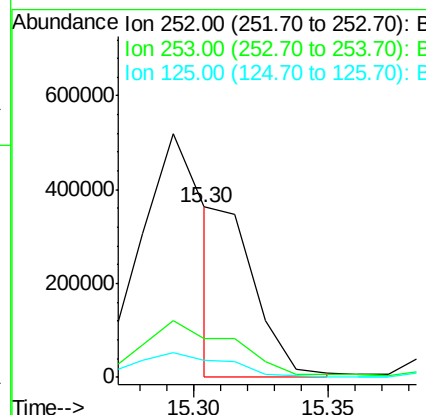
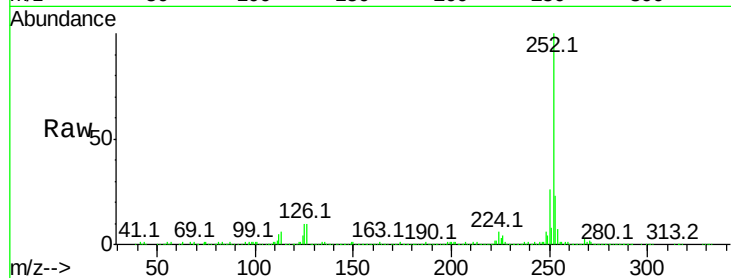
#88
Benzo(k)fluoranthene
Concen: 30.63 ng m
RT: 15.30 min Scan# 1152
Delta R.T. 0.10 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Instrument :
BNA_F
ClientSampled :
TK1-5-20151015

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	9.7	6.7	10.1

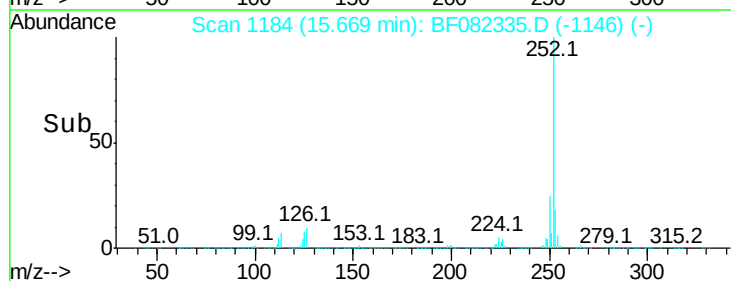
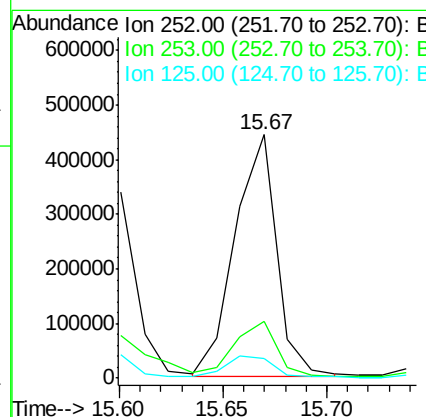
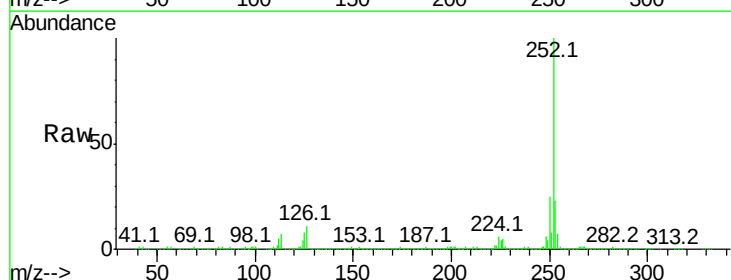
Manual Integrations
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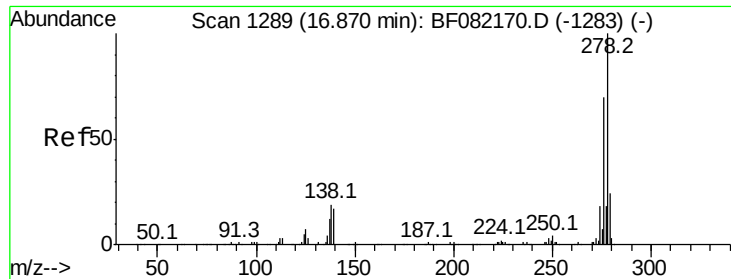
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#89
Benzo(a)pyrene
Concen: 55.08 ng m
RT: 15.67 min Scan# 1184
Delta R.T. 0.14 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	8.3	8.9	13.3





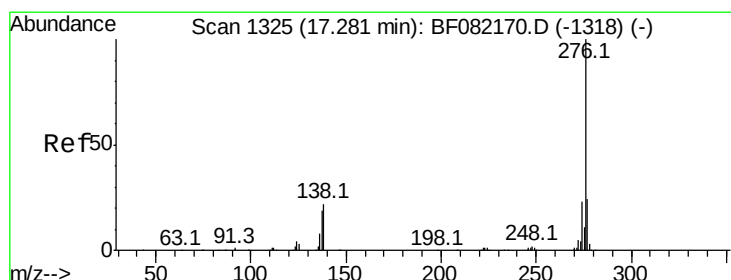
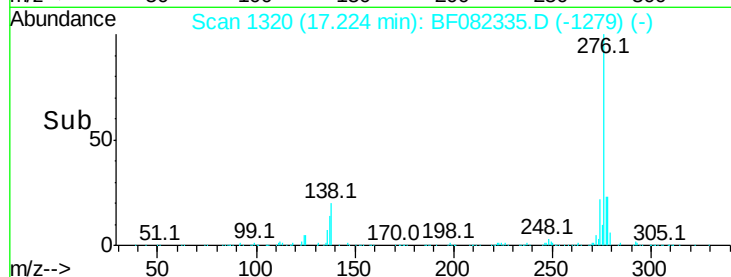
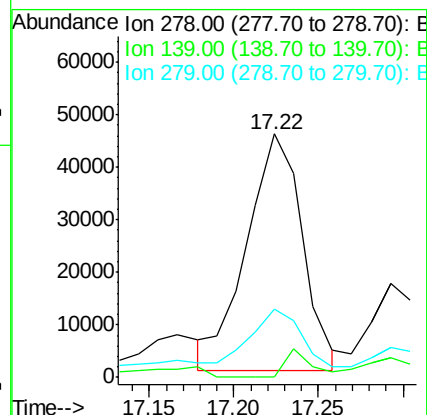
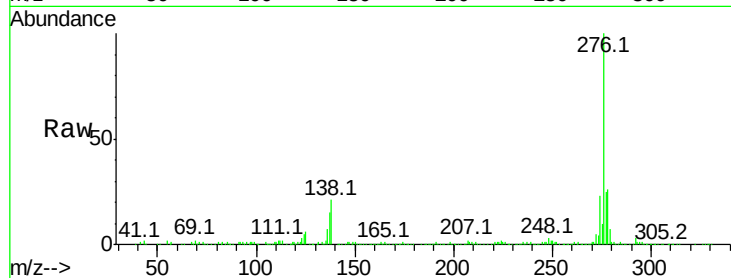
#90
Dibenzo(a,h)anthracene
Concen: 11.23 ng m
RT: 17.22 min Scan# 1320
Delta R.T. 0.17 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.3	19.9#
279	27.8	18.9	28.3

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 40.61 ng
RT: 17.67 min Scan# 1359
Delta R.T. 0.21 min
Lab File: BF082335.D
Acq: 16 Oct 2015 19:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.8	28.2
138	22.0	17.4	26.2

