

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
 Data File : BF083547.D
 Acq On : 7 Dec 2015 7:18
 Operator : UM/IZ
 Sample : G4594-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K1204-0-2

Manual Integrations
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 12/7/2015 6:34:36 PM

Quant Time: Dec 07 16:24:38 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.73	152	154380	20.00	ng	-0.03
21) Naphthalene-d8	7.63	136	543960	20.00	ng	-0.05
38) Acenaphthene-d10	10.43	164	244109	20.00	ng	-0.03
63) Phenanthrene-d10	12.82	188	375770	20.00	ng	-0.03
75) Chrysene-d12	17.04	240	283904	20.00	ng	-0.01
86) Perylene-d12	18.67	264	249388	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.02	112	1093668	107.48	ng	-0.01
7) Phenol-d6	5.30	99	1446350	103.16	ng	-0.02
23) Nitrobenzene-d5	6.56	82	960354	82.53	ng	-0.05
41) 2,4,6-Tribromophenol	11.72	330	218269	96.93	ng	-0.03
44) 2-Fluorobiphenyl	9.38	172	1214050	67.46	ng	-0.05
78) Terphenyl-d14	15.46	244	753063	59.02	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Acetophenone	6.34	105	51288	3.27	ng	# 90
31) Naphthalene	7.66	128	326172	11.26	ng	98
37) 2-Methylnaphthalene	8.77	142	92441	5.16	ng	# 96
48) Acenaphthylene	10.20	152	1090744	40.75	ng	100
49) Dimethylphthalate	10.06	163	301396	15.69	ng	99
51) Acenaphthene	10.48	154	46455	3.02	ng	96
54) Dibenzofuran	10.76	168	82382	3.86	ng	94
57) Fluorene	11.33	166	106847m	5.76	ng	
70) Phenanthrene	12.87	178	929153	42.48	ng	99
71) Anthracene	12.95	178	642132	28.79	ng	99
72) Carbazole	13.24	167	68202	3.56	ng	# 90
74) Fluoranthene	14.81	202	2289116	105.60	ng	99
77) Pvrene	15.16	202	3072129	144.65	ng	95
80) Benzo(a)anthracene	17.03	228	1928445	116.10	ng	94
82) Chrysene	17.07	228	1629498	98.47	ng	96
85) Indeno(1,2,3-cd)pyrene	19.92	276	853654	60.18	ng	# 100
87) Benzo(b)fluoranthene	18.29	252	1702920m	121.59	ng	
88) Benzo(k)fluoranthene	18.31	252	661399m	46.10	ng	
89) Benzo(a)pvrene	18.63	252	1315316	96.55	ng	# 93
90) Dibenzo(a,h)anthracene	19.92	278	242847	18.53	ng	94
91) Benzo(g,h,i)perylene	20.28	276	830269	62.86	ng	96

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

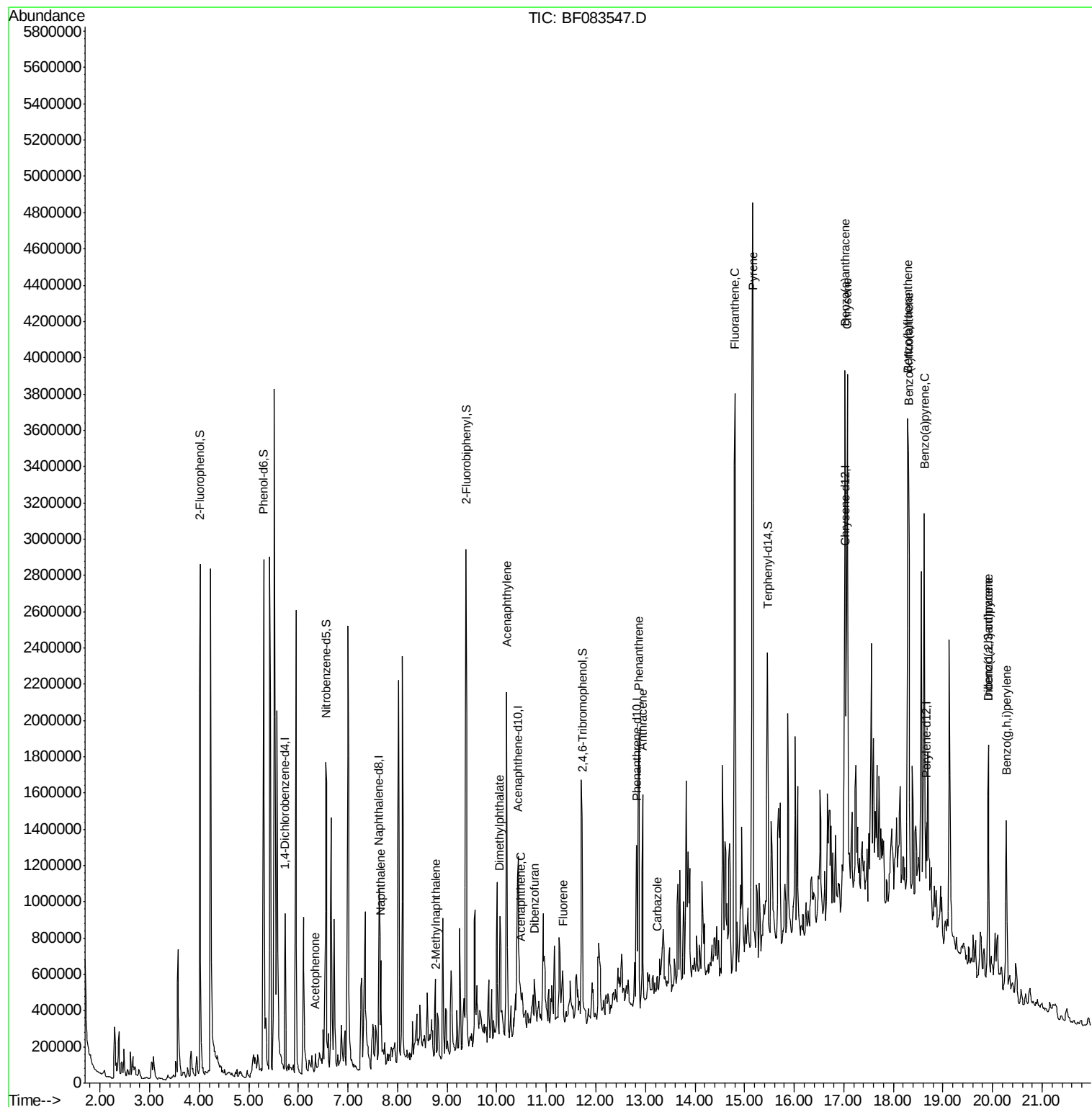
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083547.D
Acq On : 7 Dec 2015 7:18
Operator : UM/IZ
Sample : G4594-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

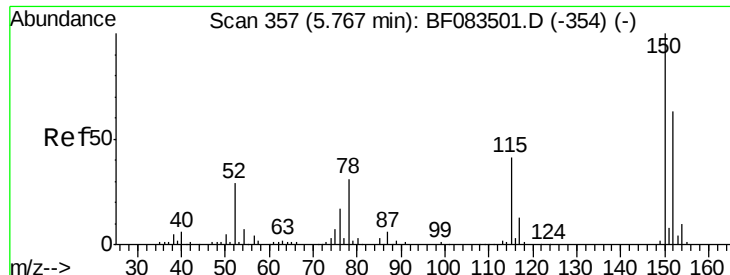
Instrument :
BNA_F
ClientSampleId :
K1204-0-2

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Quant Time: Dec 07 16:24:38 2015
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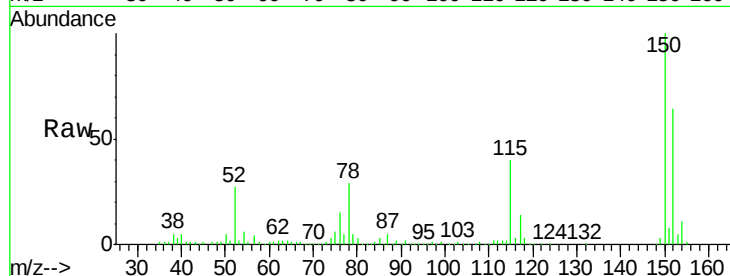
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.73 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: BF083547.D
 Acq: 7 Dec 2015 7:18

Instrument :
 BNA_F
 ClientSampleId :
 K1204-0-2

Tot Ion	Ratio	Resp	Lower	Upper
152	100	154380		
150	155.4	126.5	189.7	
115	62.7	52.3	78.5	

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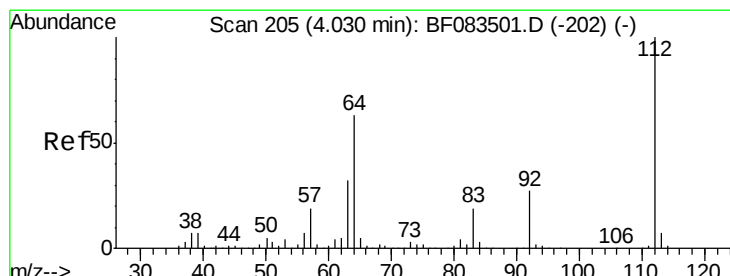
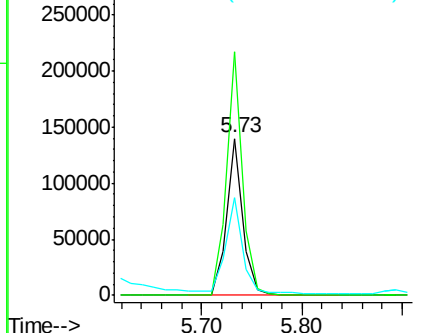
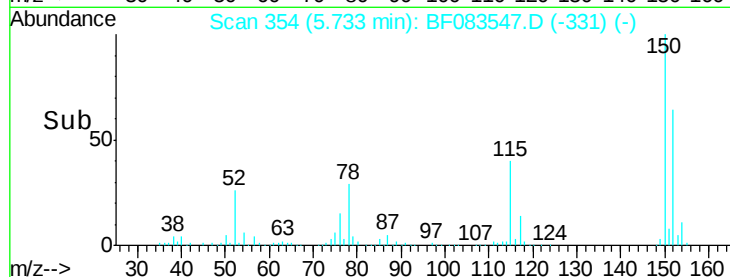


Abundance

Ion 152.00 (151.70 to 152.70): E

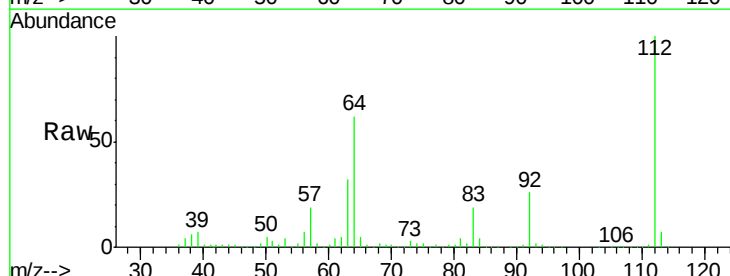
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 107.48 ng
 RT: 4.02 min Scan# 204
 Delta R.T. -0.01 min
 Lab File: BF083547.D
 Acq: 7 Dec 2015 7:18

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1093668		
64	61.7	50.5	75.7	
63	31.6	25.8	38.6	

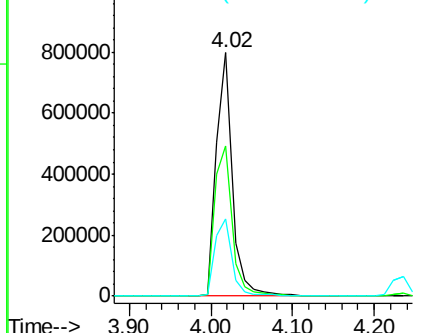
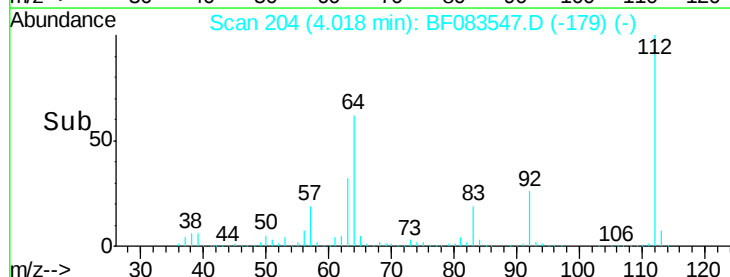


Abundance

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: 103.16 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Instrument :

BNA_F

ClientSampleId :

K1204-0-2

Tot Ion: 99 Resp: 1446350

Ion Ratio Lower Upper

99 100

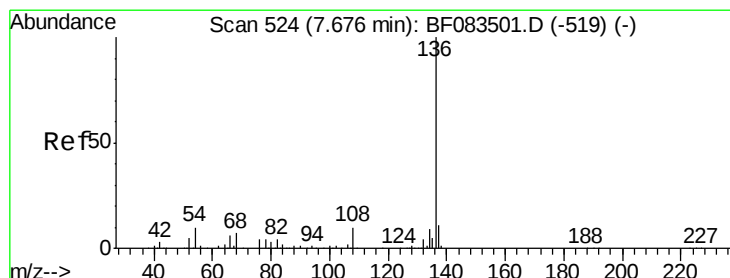
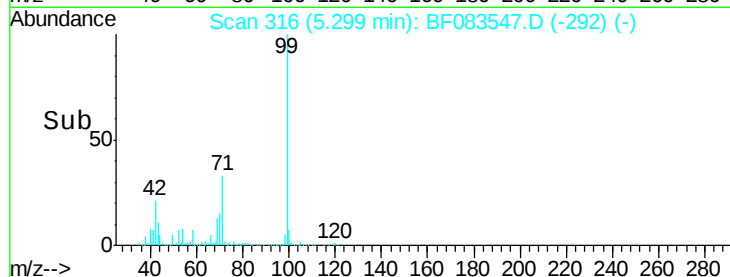
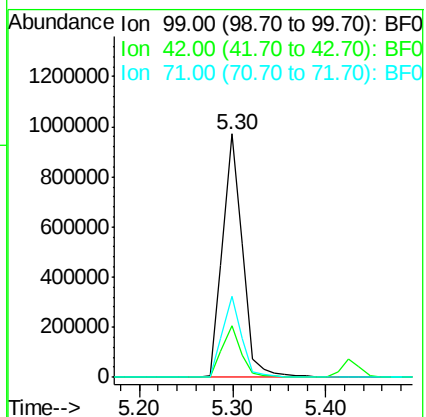
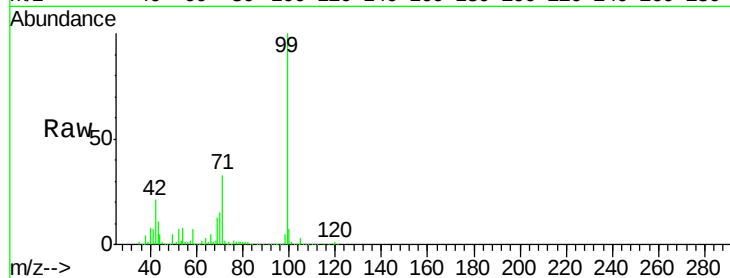
42 21.1 17.3 25.9

71 33.4 26.6 40.0

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.63 min Scan# 520

Delta R.T. -0.05 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Tgt Ion: 136 Resp: 543960

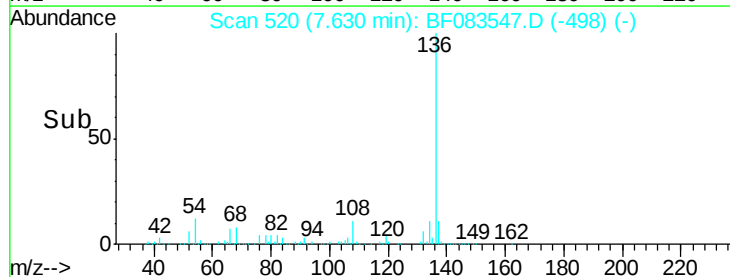
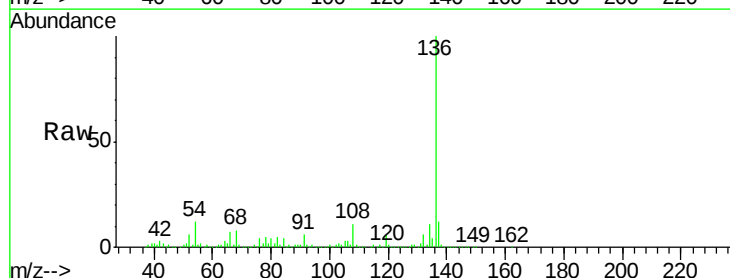
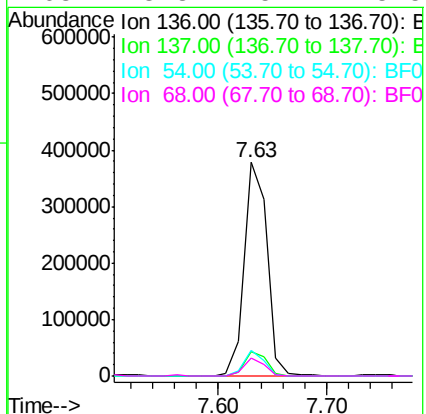
Ion Ratio Lower Upper

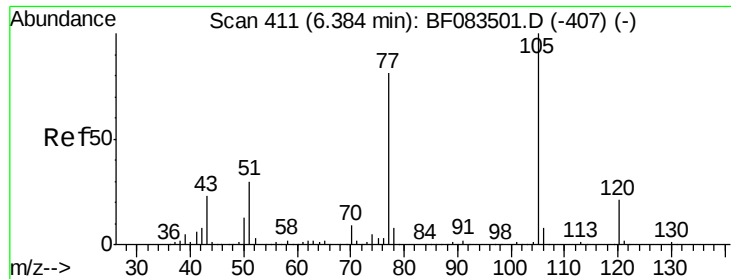
136 100

137 11.5 8.7 13.1

54 12.0 7.8 11.6#

68 8.3 5.7 8.5





#22

Acetophenone

Concen: 3.27 ng

RT: 6.34 min Scan# 407

Delta R.T. -0.05 min

Lab File: BF083547.D

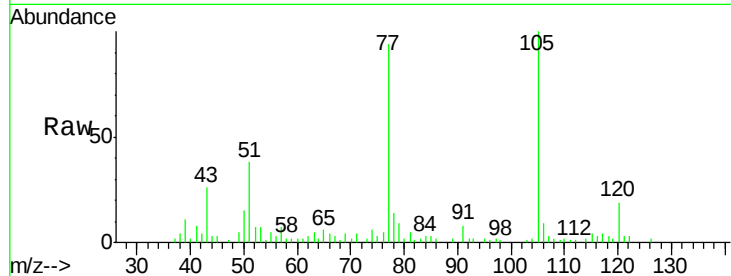
Acq: 7 Dec 2015 7:18

Instrument :

BNA_F

ClientSampleId :

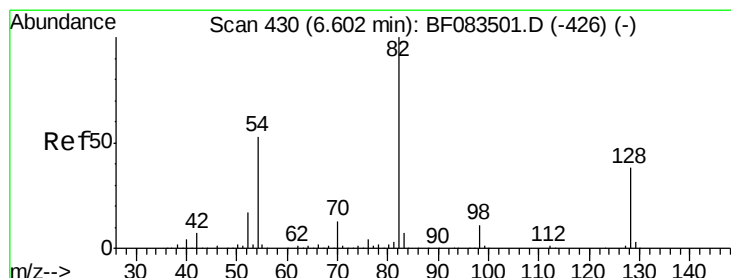
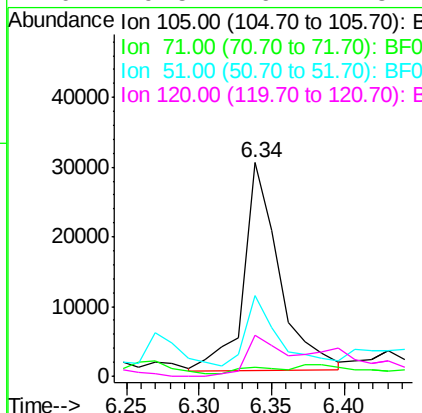
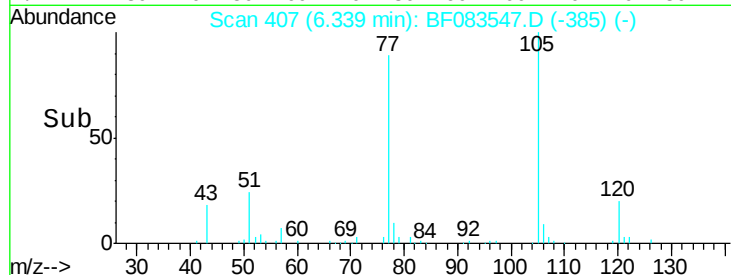
K1204-0-2



Tot Ion	Ratio	Resp	Lower	Upper
105	100	51288		
71	4.2	1.3	1.9#	
51	37.9	23.8	35.8#	
120	19.5	16.7	25.1	

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#23

Nitrobenzene-d5

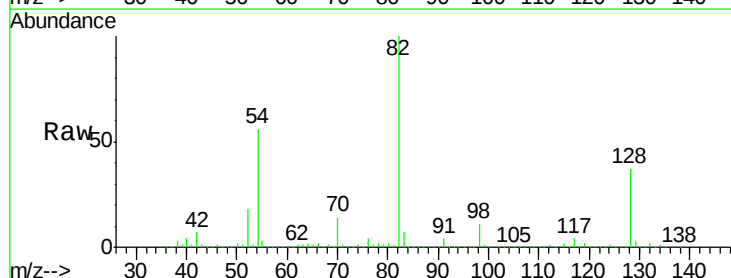
Concen: 82.53 ng

RT: 6.56 min Scan# 426

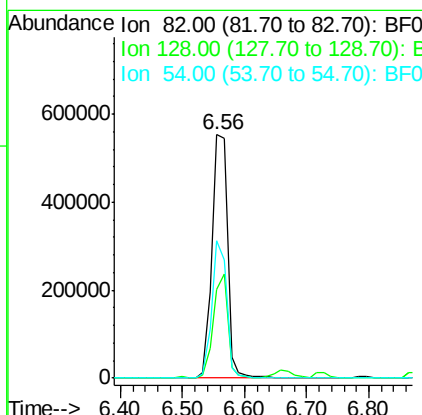
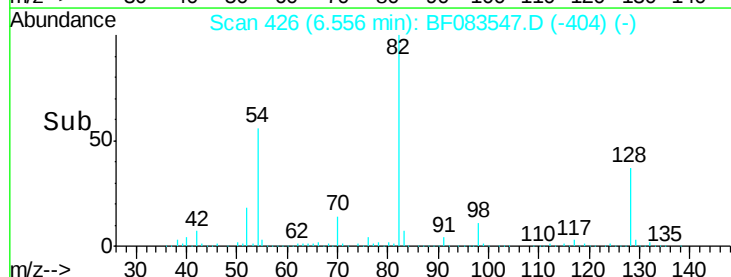
Delta R.T. -0.05 min

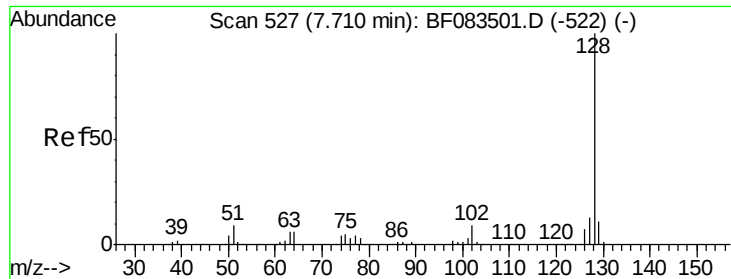
Lab File: BF083547.D

Acq: 7 Dec 2015 7:18



Tgt Ion	Ratio	Resp	Lower	Upper
82	100	960354		
128	36.6	30.7	46.1	
54	56.4	42.5	63.7	





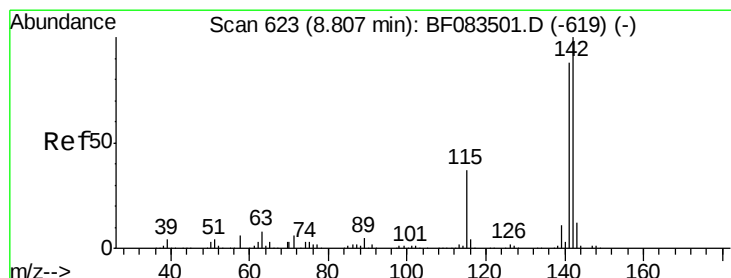
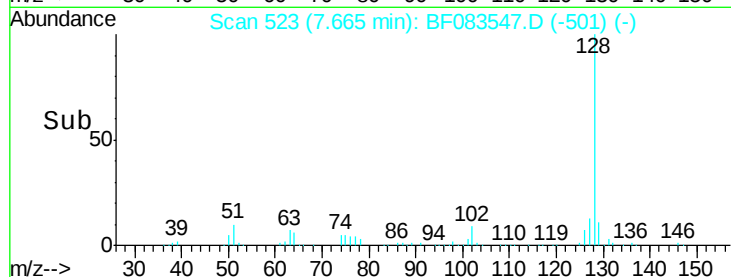
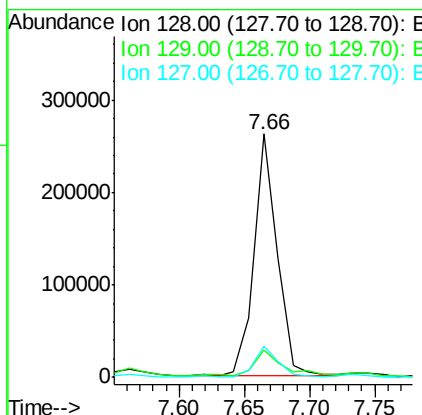
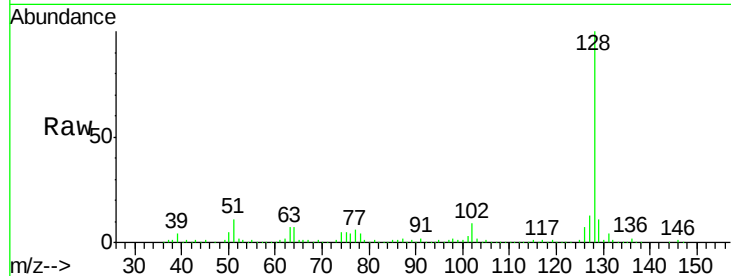
#31
Naphthalene
Concen: 11.26 ng
RT: 7.66 min Scan# 523
Delta R.T. -0.05 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Instrument :
BNA_F
ClientSampleId :
K1204-0-2

Tot Ion	Ratio	Resp Lower	Upper
128	100		
129	11.5	8.6	13.0
127	12.7	10.6	16.0

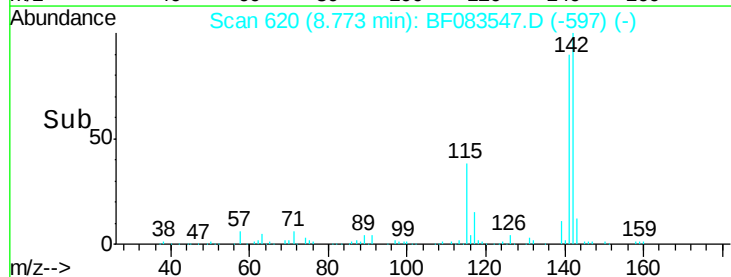
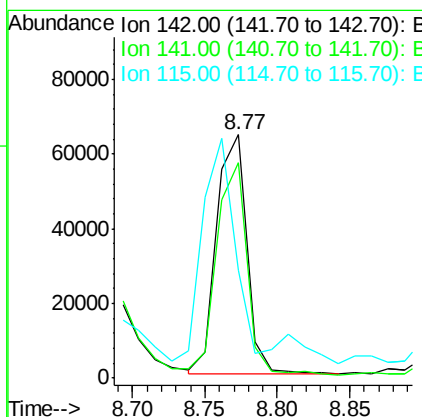
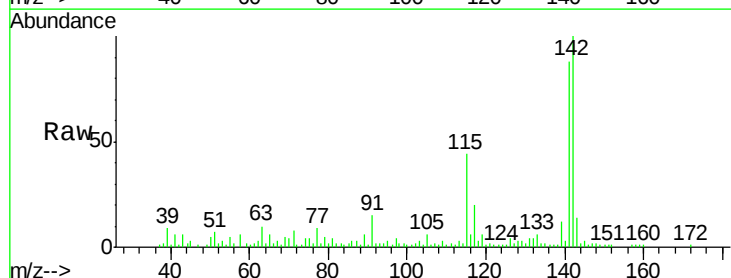
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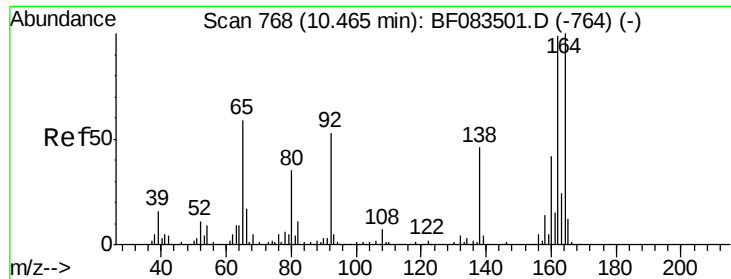
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#37
2-Methylnaphthalene
Concen: 5.16 ng
RT: 8.77 min Scan# 620
Delta R.T. -0.03 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
141	88.4	70.3	105.5
115	44.5	29.2	43.8#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.43 min Scan# 765

Delta R.T. -0.03 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Instrument :

BNA_F

ClientSampleId :

K1204-0-2

Tot Ion:164 Resp: 244109

Ion Ratio Lower Upper

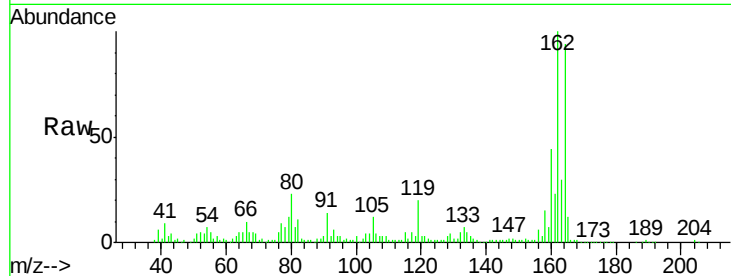
164 100

162 106.1 78.8 118.2

160 46.5 33.4 50.2

Manual Integrations
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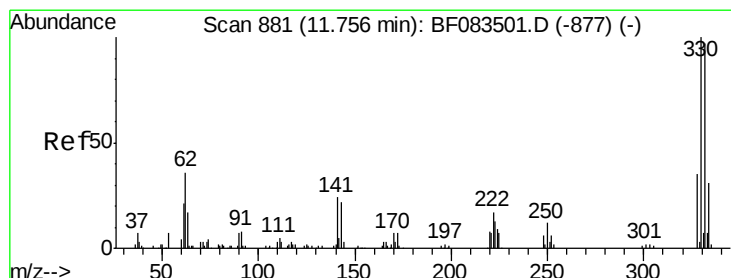
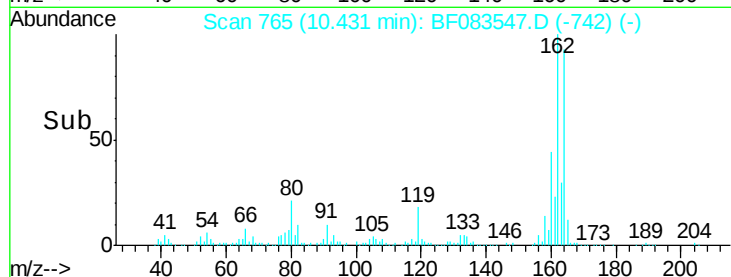
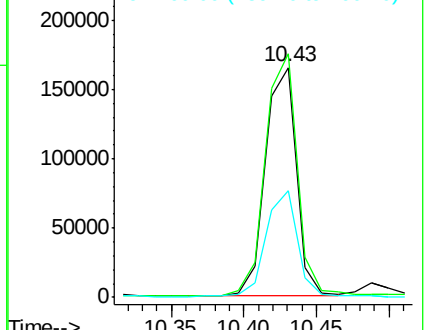
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 96.93 ng

RT: 11.72 min Scan# 878

Delta R.T. -0.03 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

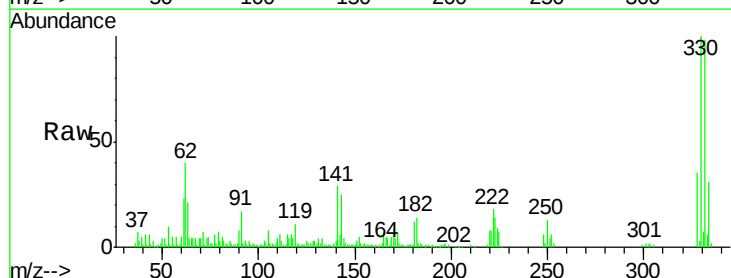
Tgt Ion:330 Resp: 218269

Ion Ratio Lower Upper

330 100

332 96.8 0.0 0.0#

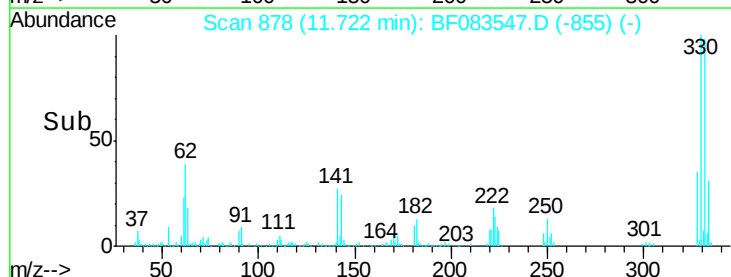
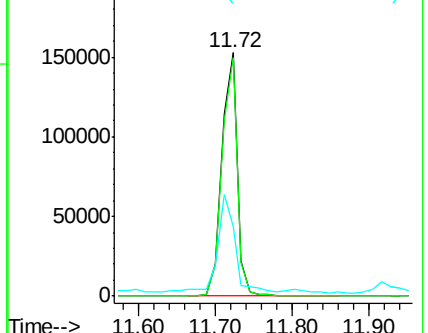
141 45.1 0.0 0.0#

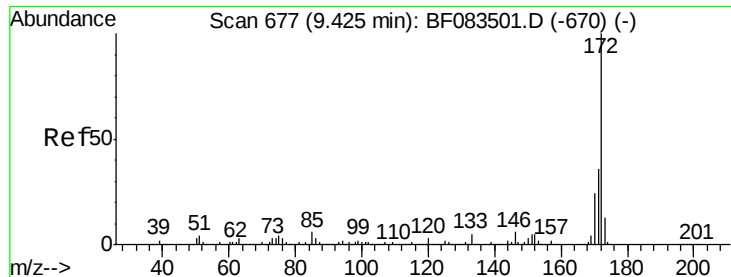


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





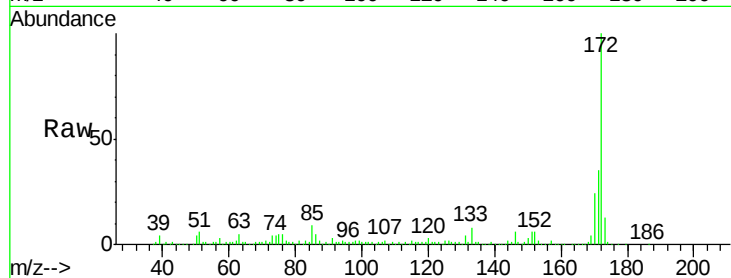
#44
2-Fluorobiphenyl
Concen: 67.46 ng
RT: 9.38 min Scan# 673
Delta R.T. -0.05 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Instrument :
BNA_F
ClientSampleId :
K1204-0-2

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	24.2	19.4	29.0

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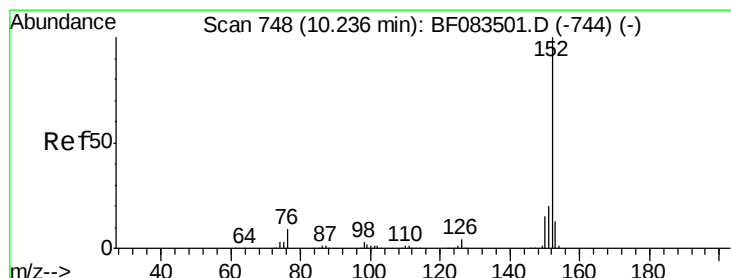
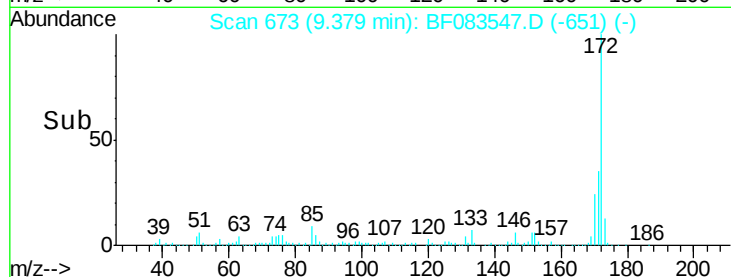
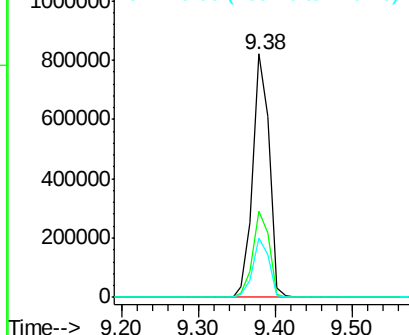


Abundance

Ion 172.00 (171.70 to 172.70): E

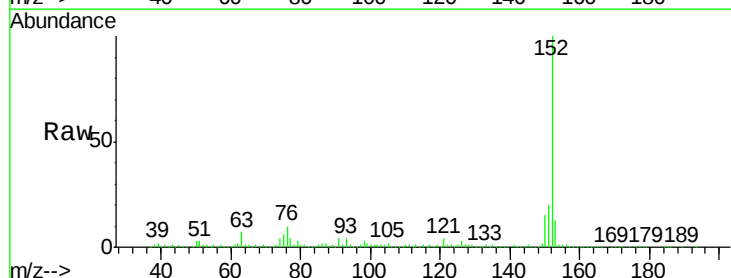
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#48
Acenaphthylene
Concen: 40.75 ng
RT: 10.20 min Scan# 745
Delta R.T. -0.03 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5
153	13.5	10.8	16.2

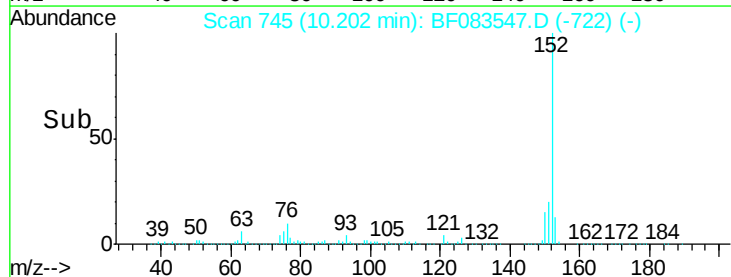
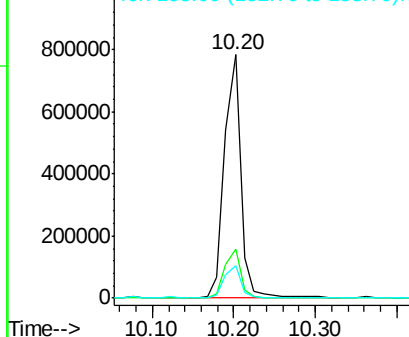


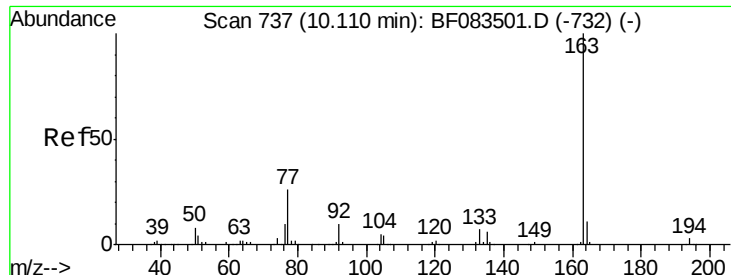
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





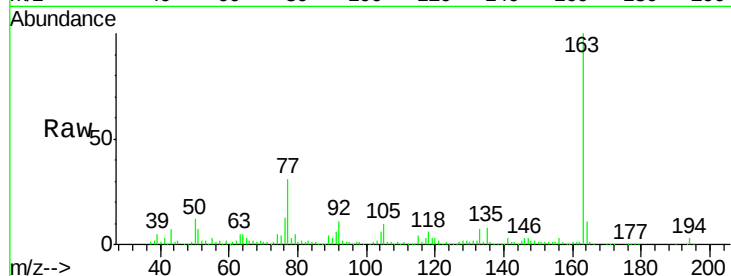
#49
Dimethylphthalate
Concen: 15.69 ng
RT: 10.06 min Scan# 733
Delta R.T. -0.05 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Instrument :
BNA_F
ClientSampleId :
K1204-0-2

Tot Ion	Ratio	Resp	Lower	Upper
163	100	301396		
194	3.3	2.8	4.2	
164	11.4	8.6	13.0	

Manual Integrations
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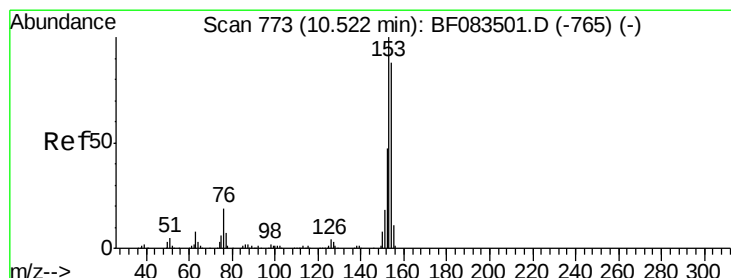
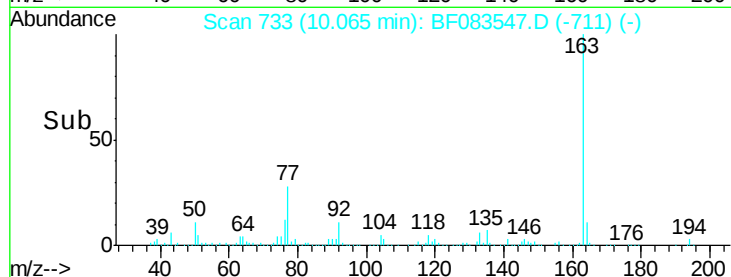
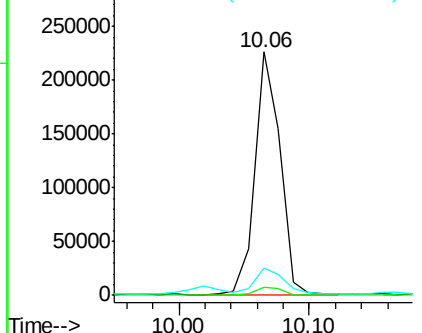


Abundance

Ion 163.00 (162.70 to 163.70): E

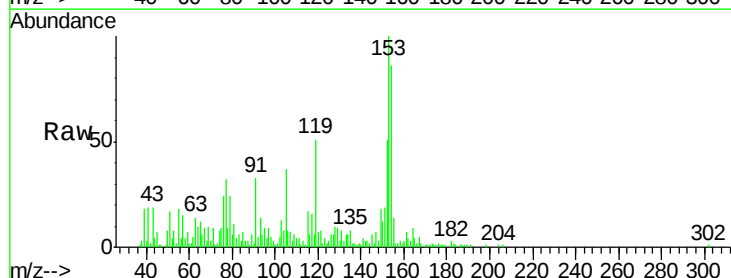
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 3.02 ng
RT: 10.48 min Scan# 769
Delta R.T. -0.05 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	46455		
153	116.7	91.4	137.0	
152	60.0	43.4	65.2	

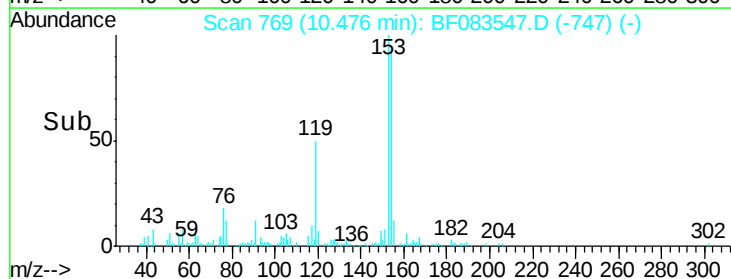
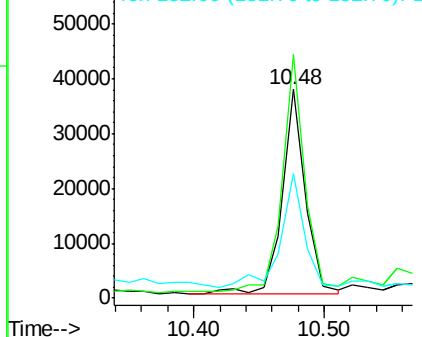


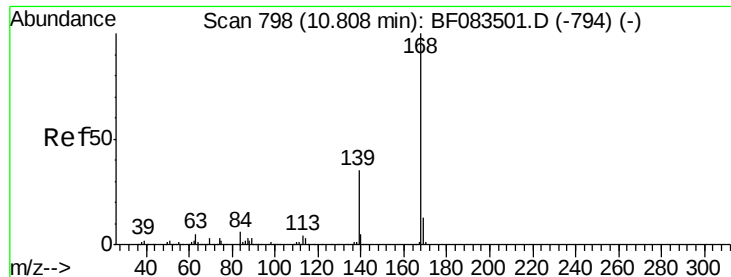
Abundance

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





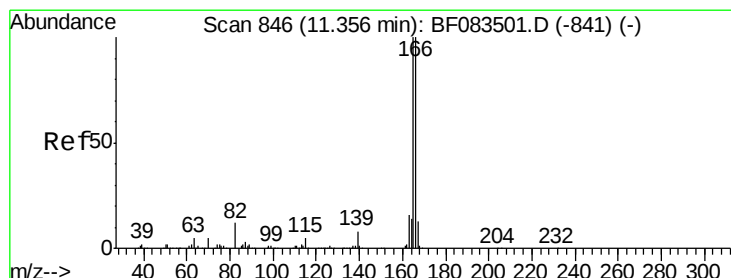
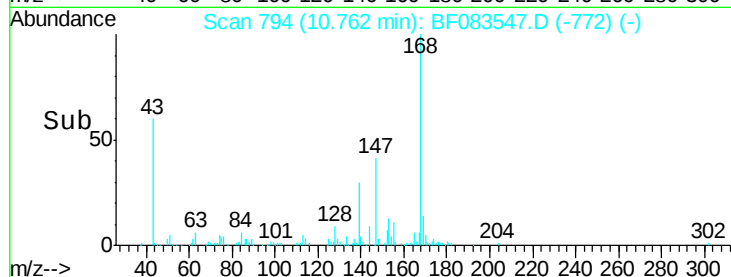
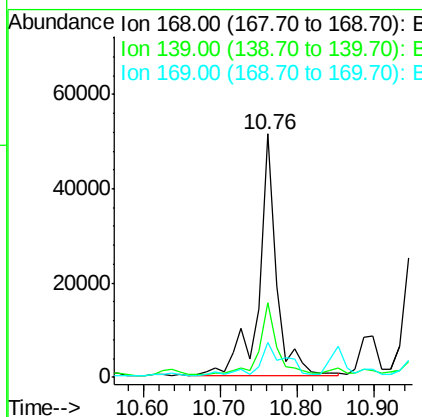
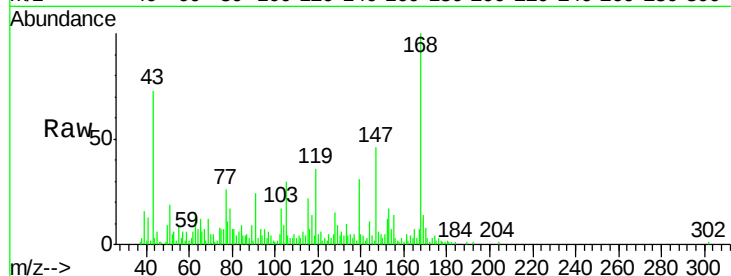
#54
Dibenzofuran
Concen: 3.86 ng
RT: 10.76 min Scan# 794
Delta R.T. -0.05 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Instrument :
BNA_F
ClientSampleId :
K1204-0-2

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	30.8	28.0	42.0	
169	14.4	10.8	16.2	

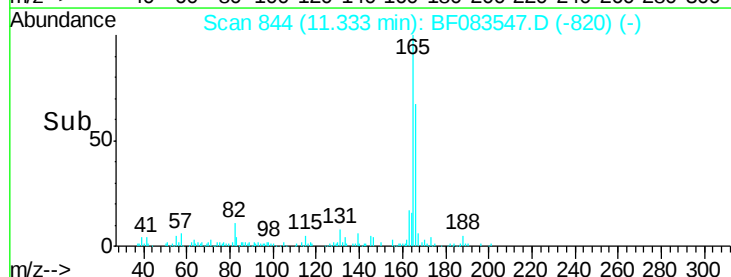
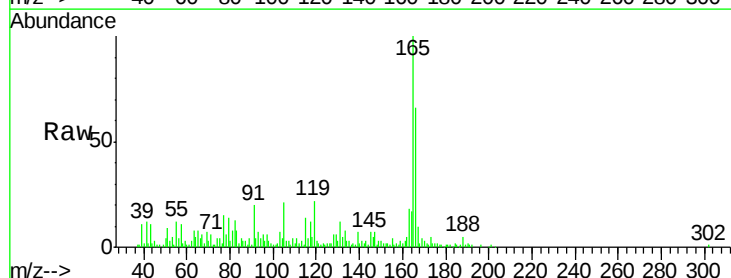
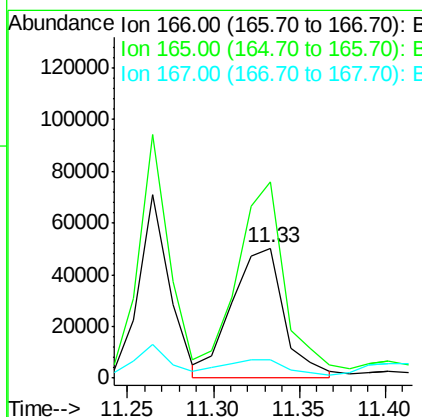
Manual Integrations
APPROVED

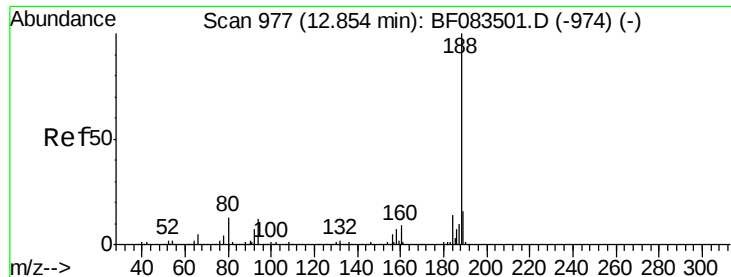
Mmdadoda
12/7/2015 6:34:36 PM



#57
Fluorene
Concen: 5.76 ng m
RT: 11.33 min Scan# 844
Delta R.T. -0.02 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	151.4	80.0	120.0#	
167	14.5	10.6	16.0	





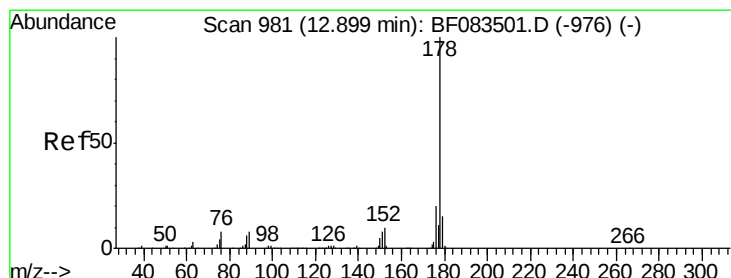
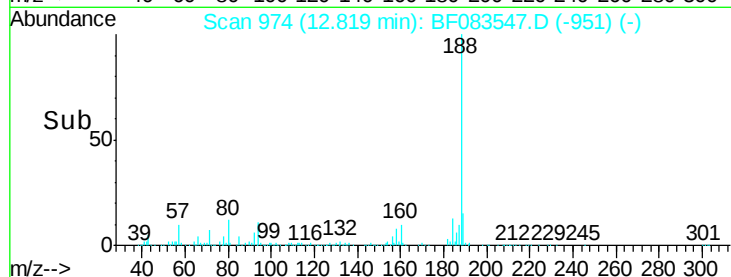
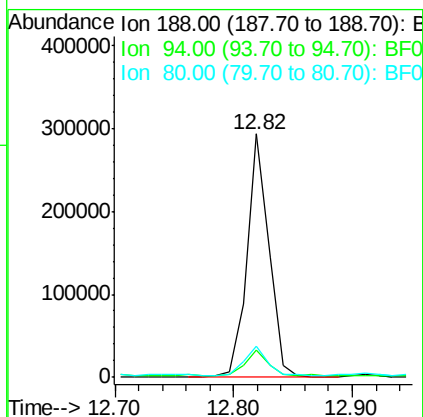
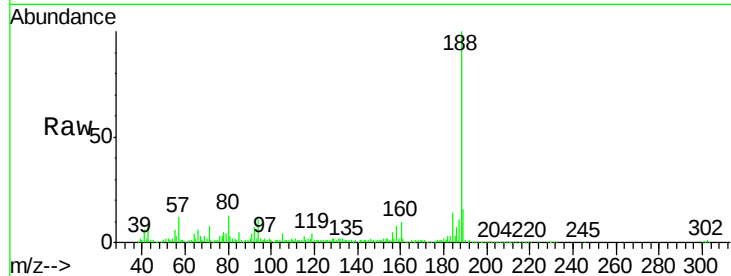
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.82 min Scan# 974
Delta R.T. -0.03 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Instrument :
BNA_F
ClientSampleId :
K1204-0-2

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.4	9.4	14.2
80	12.9	10.6	16.0

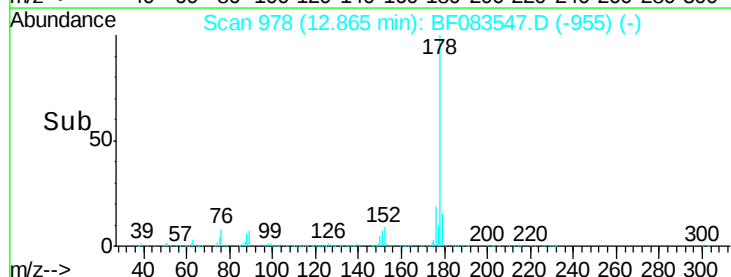
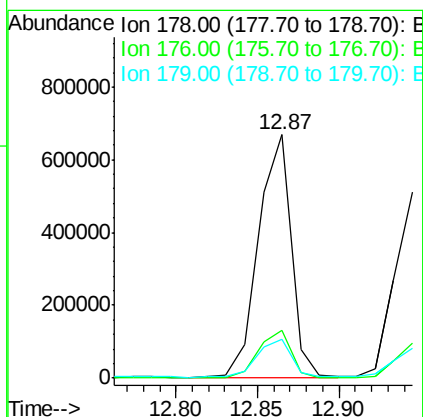
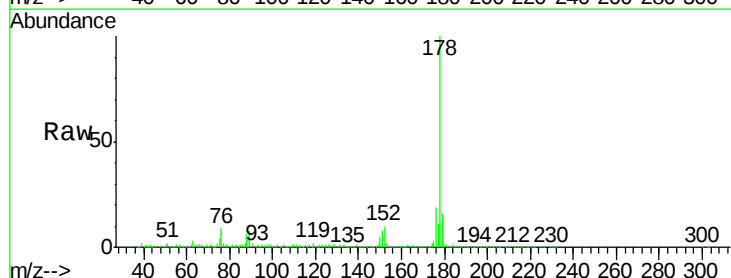
Manual Integrations
APPROVED

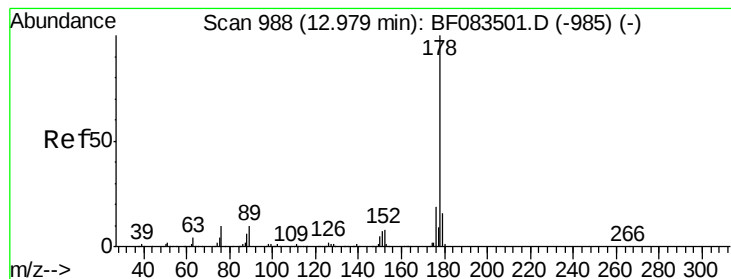
Mmdadoda
12/7/2015 6:34:36 PM



#70
Phenanthrene
Concen: 42.48 ng
RT: 12.87 min Scan# 978
Delta R.T. -0.03 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.9	12.2	18.4





#71

Anthracene

Concen: 28.79 ng

RT: 12.95 min Scan# 985

Delta R.T. -0.03 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Instrument :

BNA_F

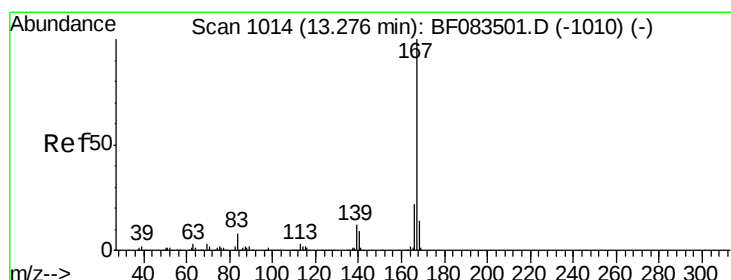
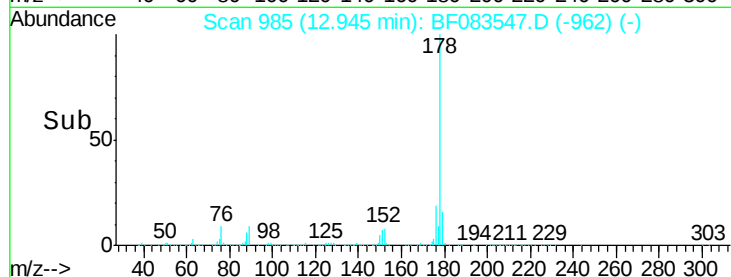
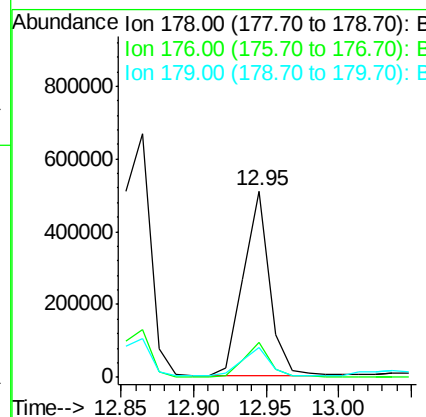
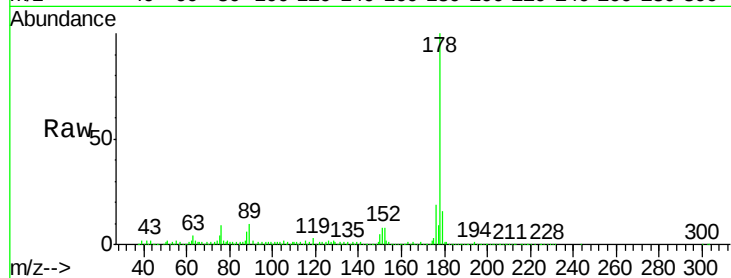
ClientSampleId :

K1204-0-2

Tot Ion:	178	Resp:	642132
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.2	22.8
179	16.0	12.6	18.8

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:34:36 PM



#72

Carbazole

Concen: 3.56 ng

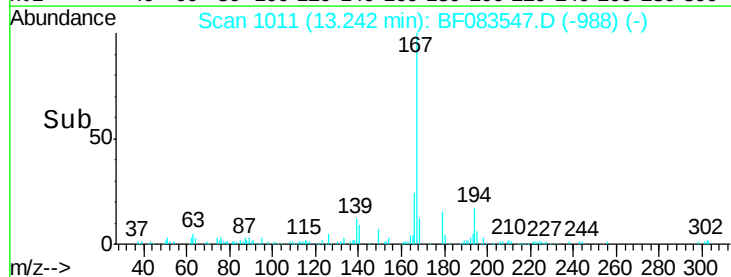
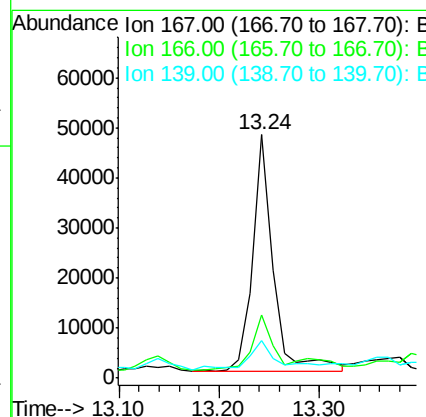
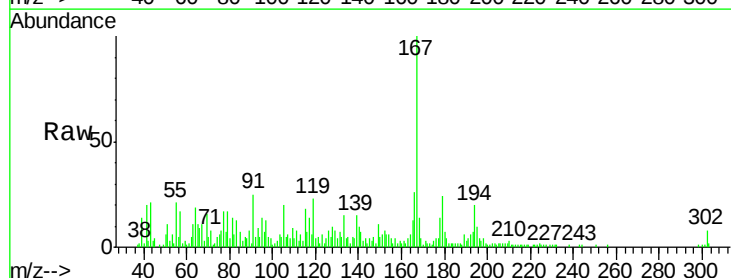
RT: 13.24 min Scan# 1011

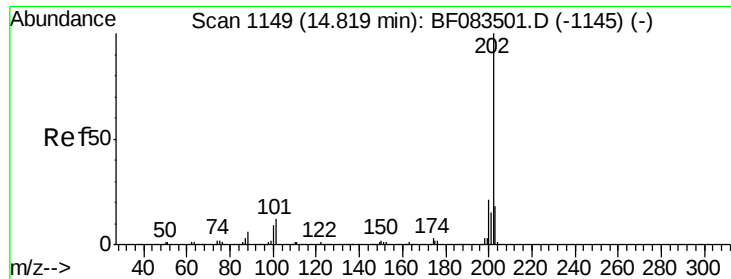
Delta R.T. -0.03 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Tgt Ion:	167	Resp:	68202
Ion Ratio	Lower	Upper	
167	100		
166	26.2	17.2	25.8#
139	15.3	9.3	13.9#





#74

Fluoranthene

Concen: 105.60 ng

RT: 14.81 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Instrument :

BNA_F

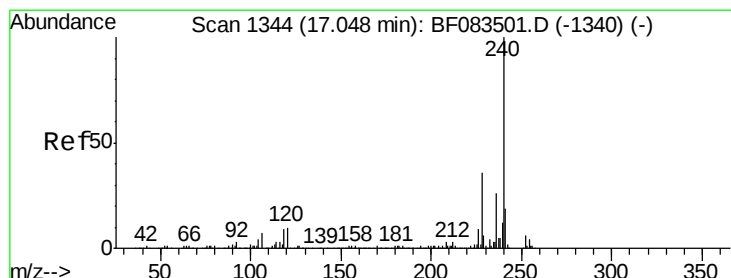
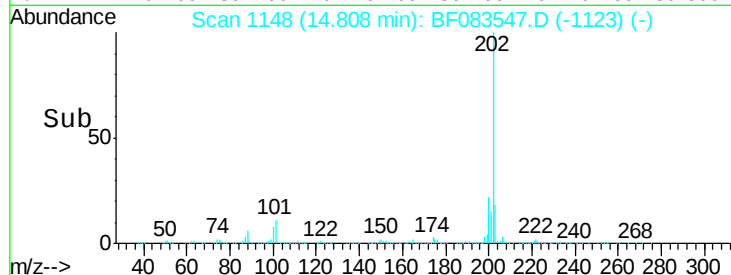
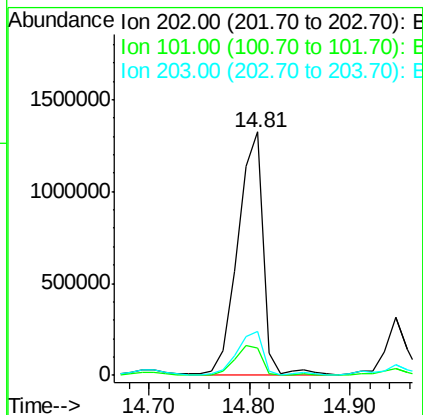
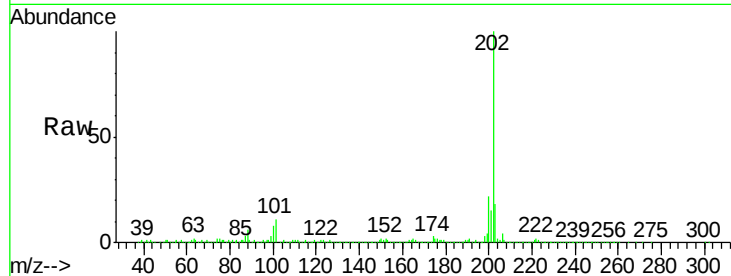
ClientSampleId :

K1204-0-2

Tot Ion:	202	Resp:	2289116
Ion Ratio	Lower	Upper	
202	100		
101	11.3	0.0	31.5
203	18.3	0.0	37.6

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:34:36 PM



#75

Chrysene-d12

Concen: 20.00 ng

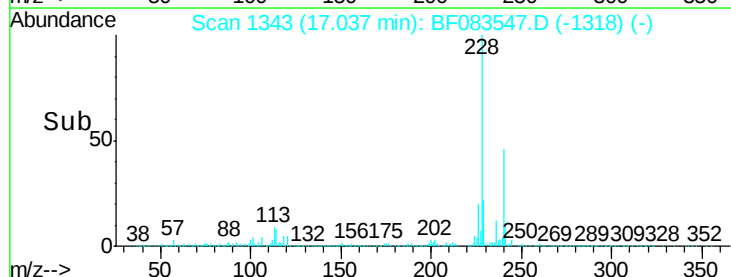
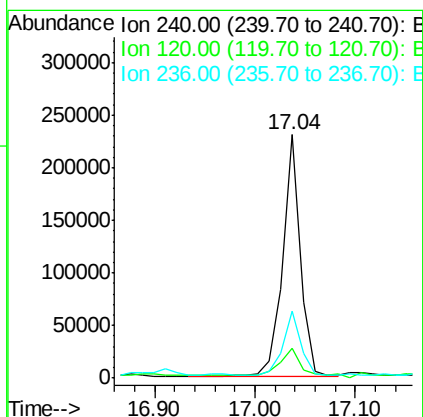
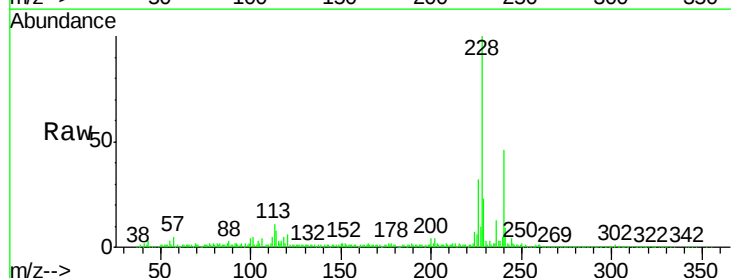
RT: 17.04 min Scan# 1343

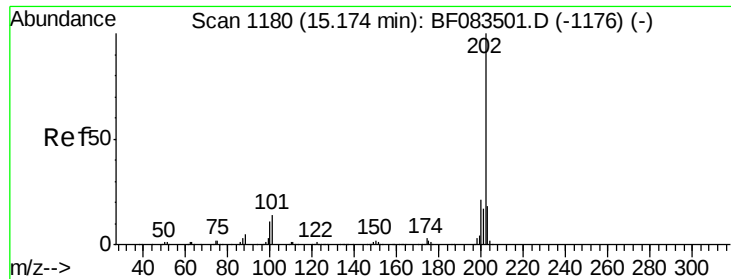
Delta R.T. -0.01 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Tgt Ion:	240	Resp:	283904
Ion Ratio	Lower	Upper	
240	100		
120	12.2	8.1	12.1#
236	27.4	20.8	31.2





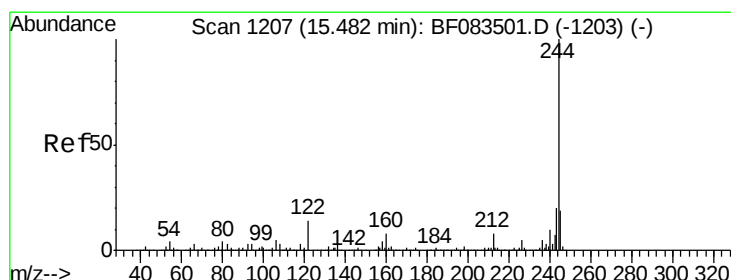
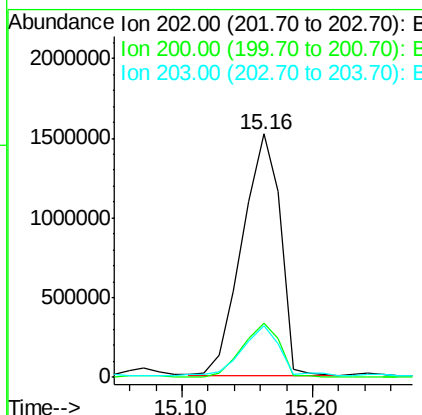
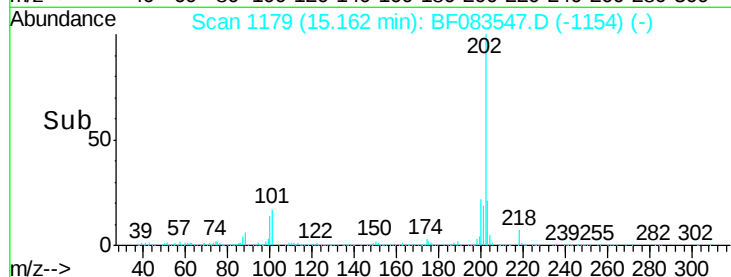
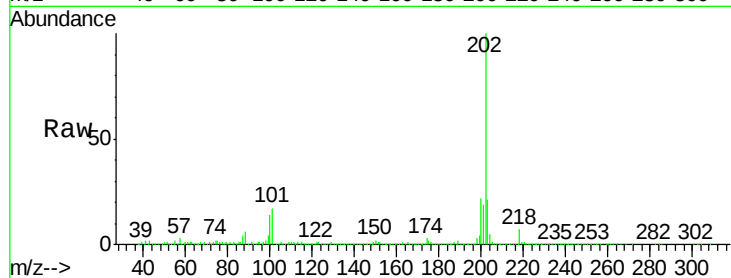
#77
Pvrene
Concen: 144.65 ng
RT: 15.16 min Scan# 1179
Delta R.T. -0.01 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Instrument :
BNA_F
ClientSampleId :
K1204-0-2

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.2	16.7	25.1
203	21.3	14.3	21.5

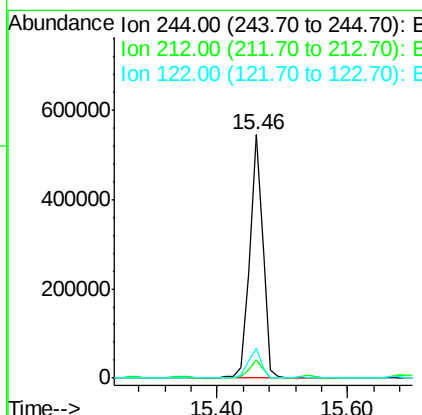
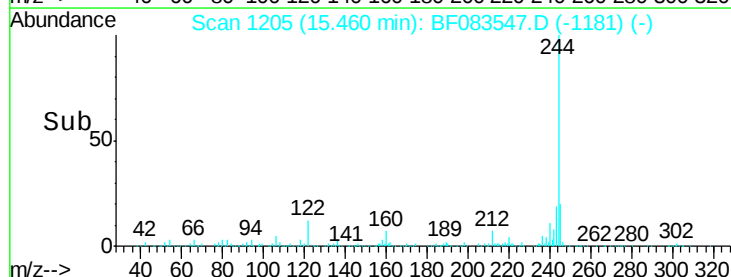
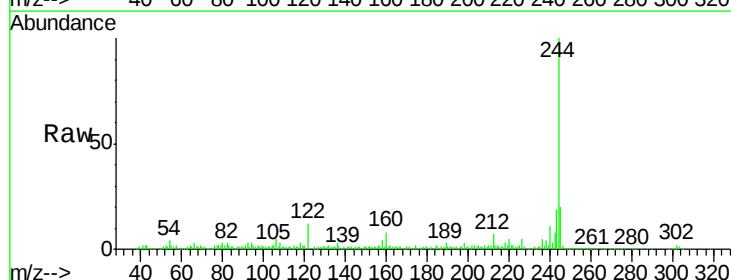
Manual Integrations
APPROVED

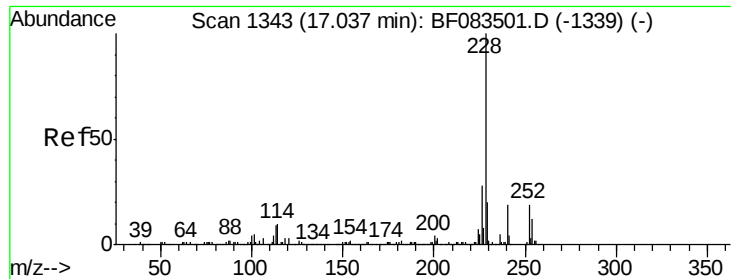
Mmdadoda
12/7/2015 6:34:36 PM



#78
Terphenyl-d14
Concen: 59.02 ng
RT: 15.46 min Scan# 1205
Delta R.T. -0.02 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.1	9.1
122	12.5	11.0	16.6





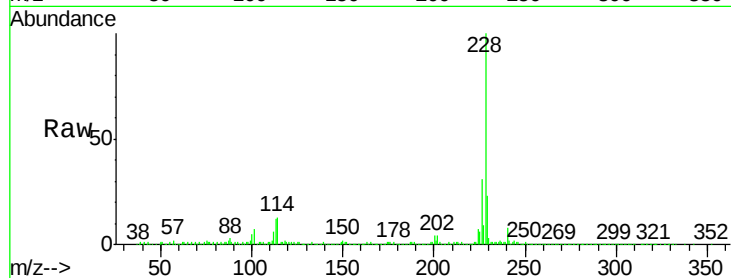
#80
Benzo(a)anthracene
Concen: 116.10 ng
RT: 17.03 min Scan# 1342
Delta R.T. -0.01 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Instrument :
BNA_F
ClientSampleId :
K1204-0-2

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	22.3	33.5
229	23.0	15.7	23.5

Manual Integrations
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Mmdadoda
12/7/2015 6:34:36 PM

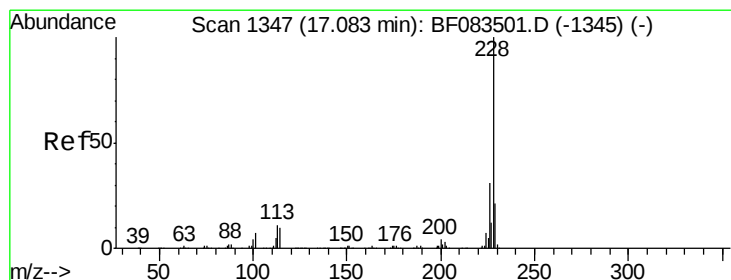
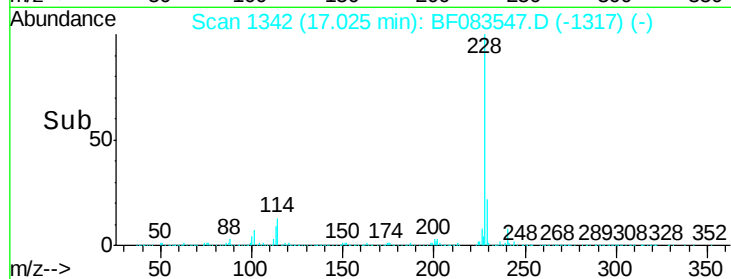
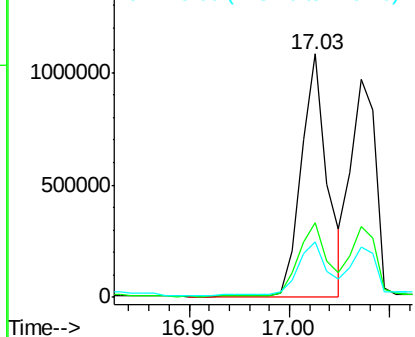


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82
Chrysene
Concen: 98.47 ng
RT: 17.07 min Scan# 1346
Delta R.T. -0.01 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

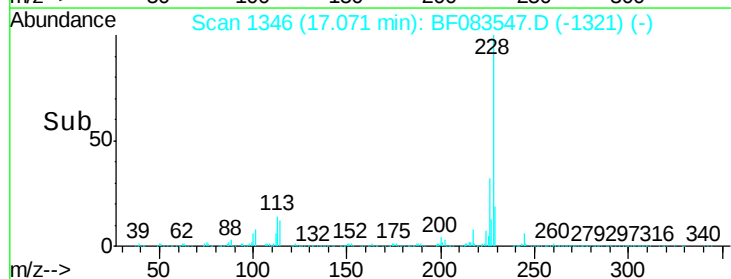
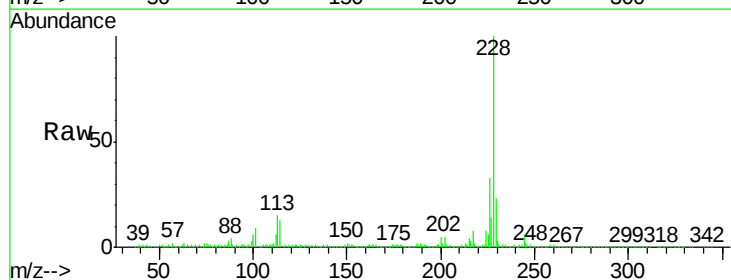
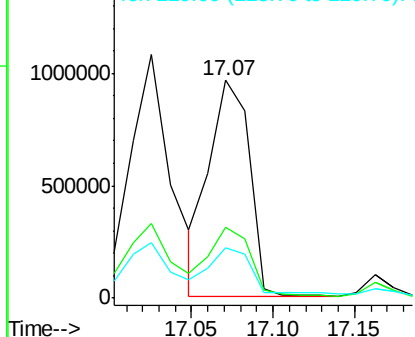
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.7	37.1
229	23.3	16.3	24.5

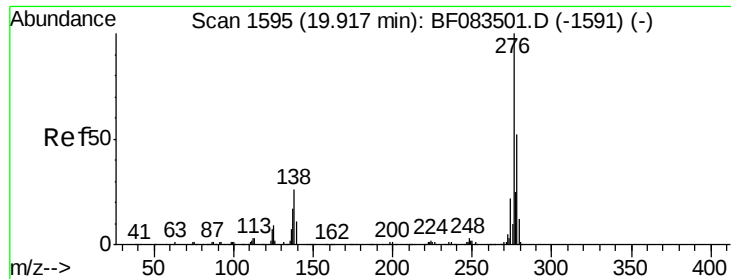
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





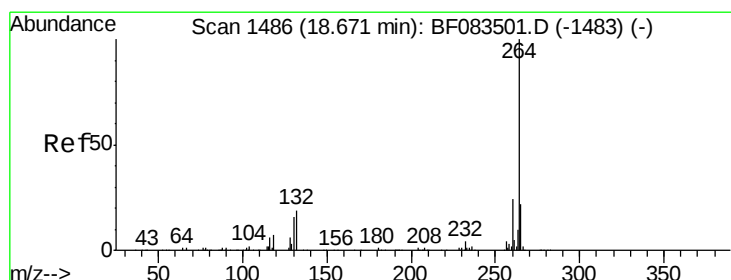
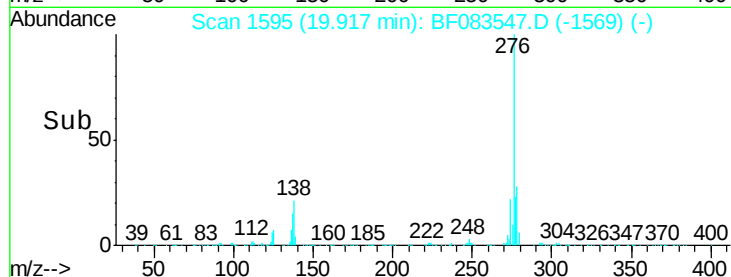
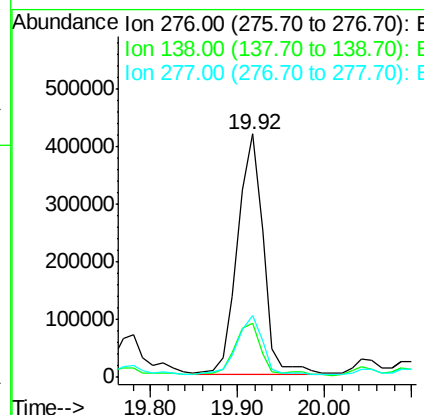
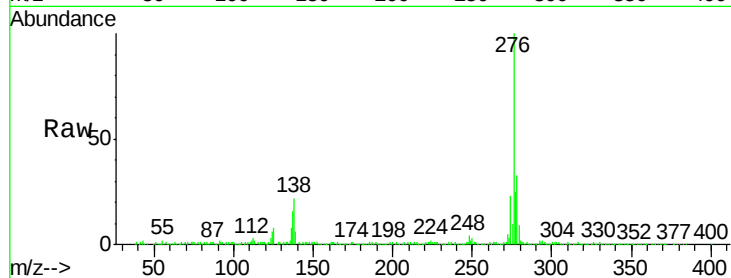
#85
Indeno(1,2,3-cd)pyrene
Concen: 60.18 ng
RT: 19.92 min Scan# 1595
Delta R.T. 0.00 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Instrument :
BNA_F
ClientSampleId :
K1204-0-2

Tot Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	23.1	0.0	0.0#
277	24.3	0.0	0.0#

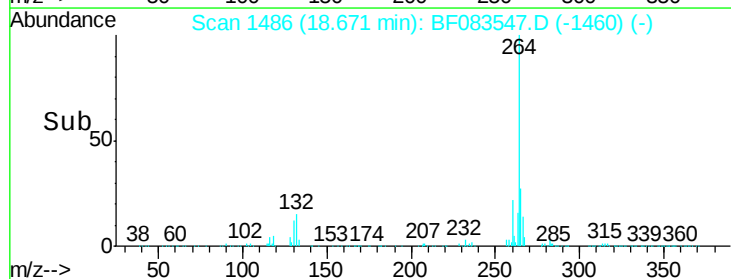
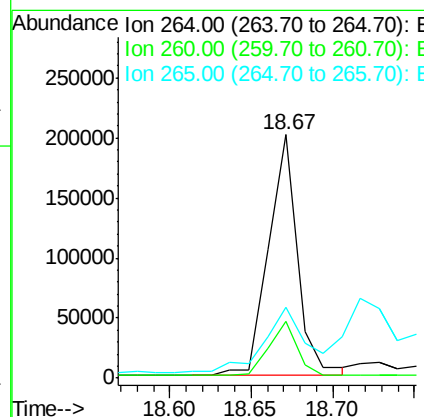
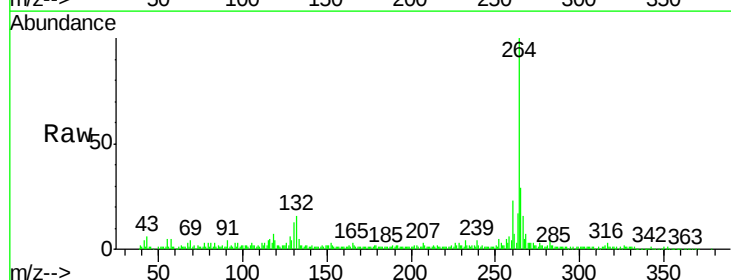
Manual Integrations
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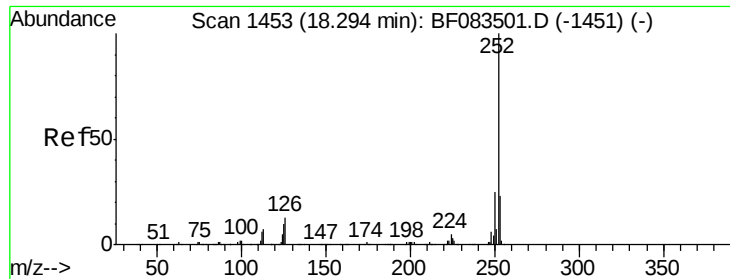
Mmdadoda
12/7/2015 6:34:36 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 18.67 min Scan# 1486
Delta R.T. 0.00 min
Lab File: BF083547.D
Acq: 7 Dec 2015 7:18

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	23.5	19.4	29.0
265	29.0	17.8	26.6#





#87

Benzo(b)fluoranthene

Concen: 121.59 ng m

RT: 18.29 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Instrument :

BNA_F

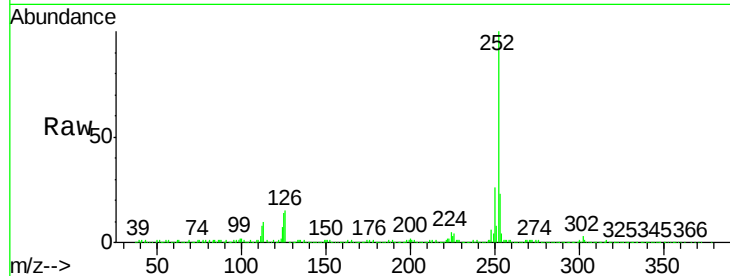
ClientSampleId :

K1204-0-2

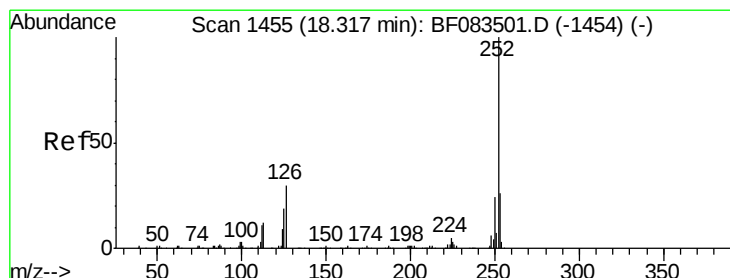
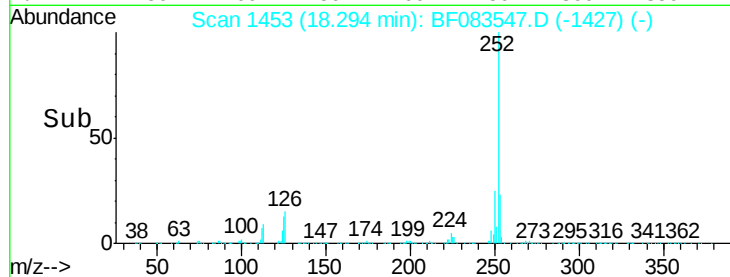
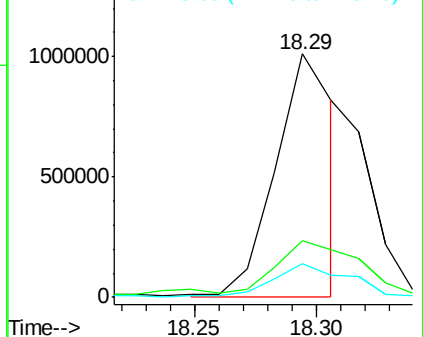
Tot Ion:	252	Resp:	1702920
Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	13.6	8.2	12.4#

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 46.10 ng m

RT: 18.31 min Scan# 1454

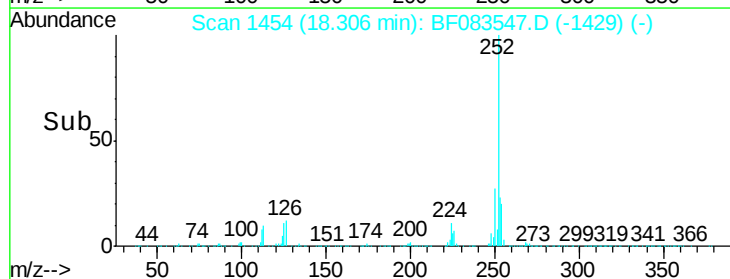
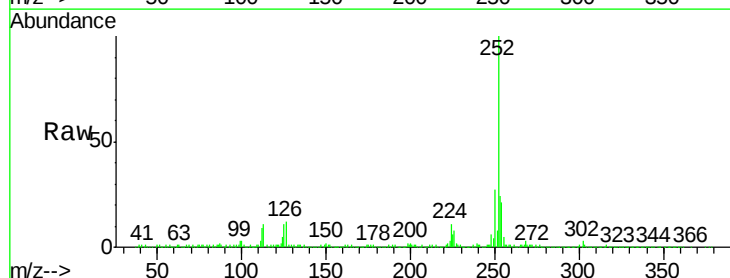
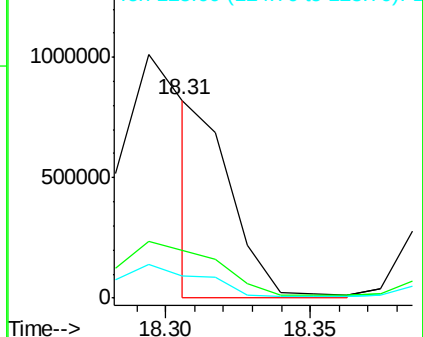
Delta R.T. -0.01 min

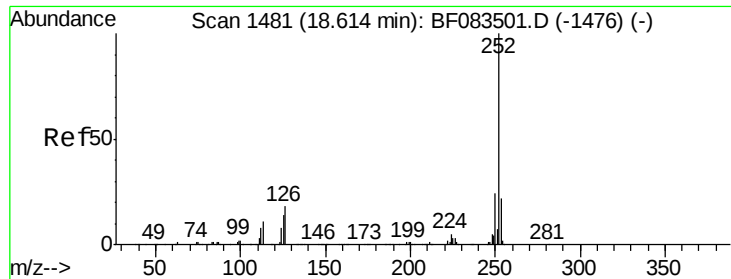
Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Tgt Ion:	252	Resp:	661399
Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.6	27.8
125	11.4	11.5	17.3#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 96.55 ng

RT: 18.63 min Scan# 1482

Delta R.T. 0.01 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Instrument :

BNA_F

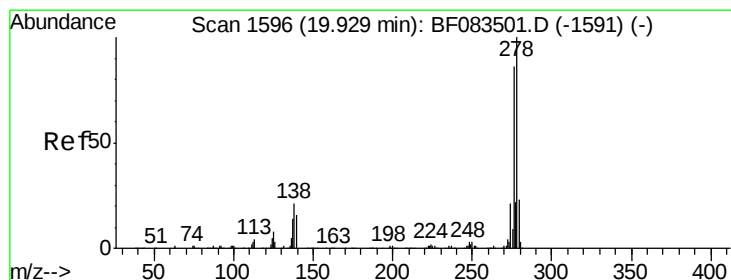
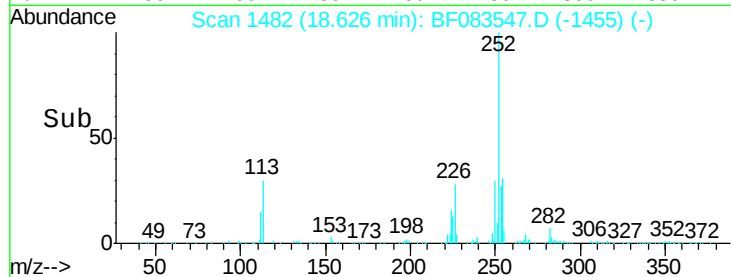
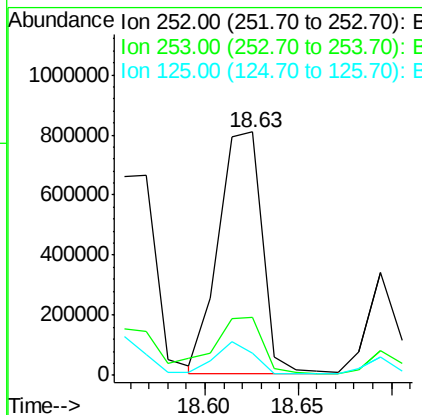
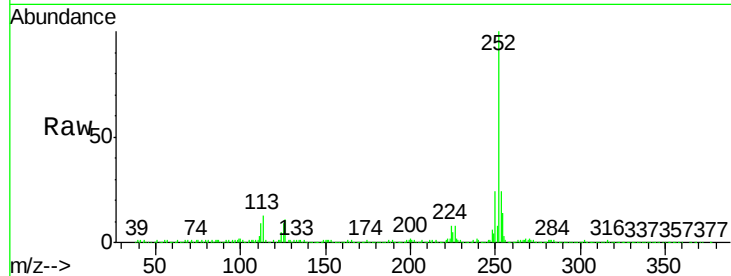
ClientSampleId :

K1204-0-2

Tot Ion:	252	Resp:	1315316
Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	9.2	11.0	16.6

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#90

Dibenzo(a,h)anthracene

Concen: 18.53 ng

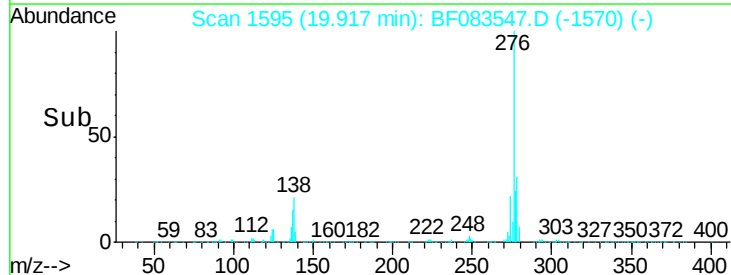
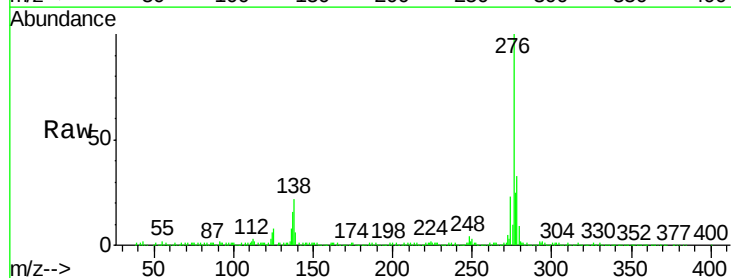
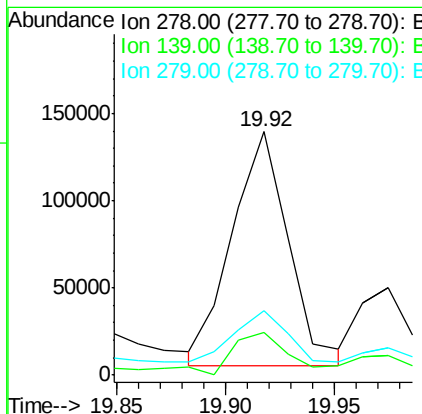
RT: 19.92 min Scan# 1595

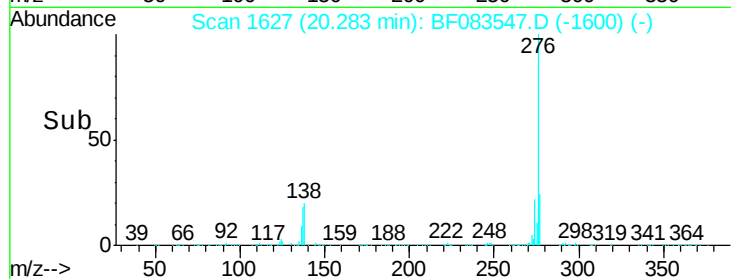
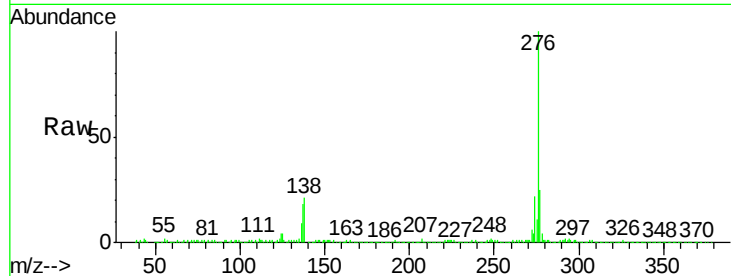
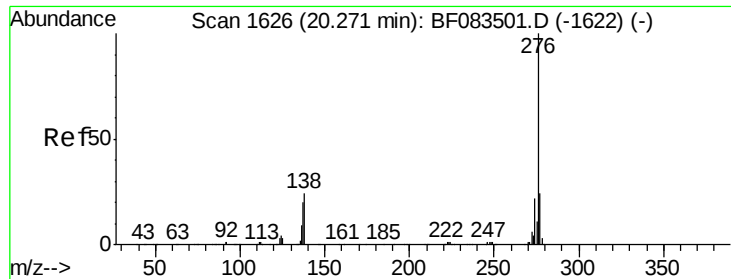
Delta R.T. -0.01 min

Lab File: BF083547.D

Acq: 7 Dec 2015 7:18

Tgt Ion:	278	Resp:	242847
Ion	Ratio	Lower	Upper
278	100		
139	17.7	12.8	19.2
279	26.5	18.6	28.0





#91
 Benzo(a,h,i)perylene
 Concen: 62.86 ng
 RT: 20.28 min Scan# 1627
 Delta R.T. 0.01 min
 Lab File: BF083547.D
 Acq: 7 Dec 2015 7:18

Instrument :
 BNA_F
 ClientSampleId :
 K1204-0-2

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	20.9	19.5	29.3

Manual Integrations
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 12/7/2015 6:34:36 PM

