

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102714\
 Data File : BE088329.D
 Acq On : 28 Oct 2014 00:11
 Operator : TP/JJ
 Sample : F4379-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB30-1014

Manual Integrations
 APPROVED

mohammad
 10/29/2014 11:11:44 AM

Quant Time: Oct 28 10:28:17 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102714.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 10:16:06 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	29260	5.00	ng	0.00
3) Naphthalene-d8	8.66	136	102733	5.00	ng	0.00
7) Acenaphthene-d10	10.81	164	50028	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	102619	5.00	ng	0.00
16) Chrysene-d12	18.34	240	54510	5.00	ng	0.00
22) Perylene-d12	21.40	264	46833	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	710160	91.76	ng	0.01
8) 2-Fluorobiphenyl	10.01	172	844239	64.50	ng	0.00
18) Terphenyl-d14	16.13	244	661331	64.87	ng	0.03
Target Compounds						Qvalue
13) Phenanthrene	12.96	178	19270	0.10	ng	# 78
14) Anthracene	13.05	178	13113	0.07	ng	# 90
15) Fluoranthene	15.21	202	15145	0.85	ng	100
17) Pyrene	15.66	202	13020	0.79	ng	98
19) Benzo(a)anthracene	18.32	228	21983	0.47	ng	97
20) Chrysene	18.39	228	98692	2.03	ng	99
21) Indeno(1,2,3-cd)pyrene	23.57	276	13850m	0.38	ng	
23) Benzo(b)fluoranthene	20.64	252	12057	1.09	ng	97
24) Benzo(k)fluoranthene	20.69	252	4401m	0.33	ng	
25) Benzo(a)pyrene	21.28	252	3305	0.32	ng	# 92
27) Benzo(g,h,i)perylene	24.20	276	12318	0.30	ng	95

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

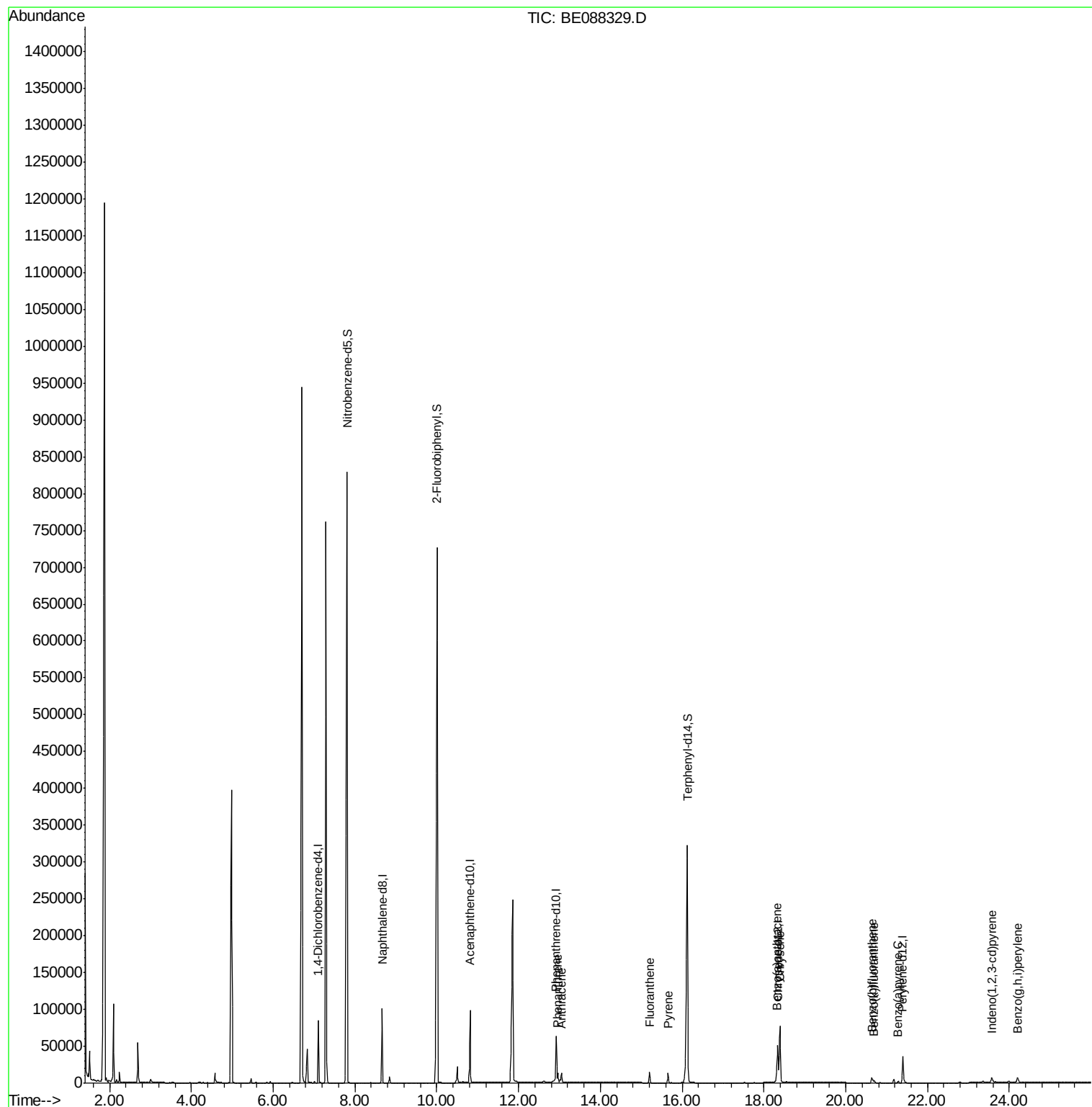
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102714\
Data File : BE088329.D
Acq On : 28 Oct 2014 00:11
Operator : TP/JJ
Sample : F4379-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

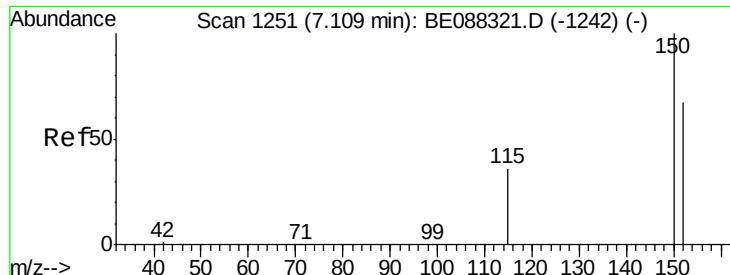
Instrument :
BNA_E
ClientSampleId :
YS19-SB30-1014

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM

Quant Time: Oct 28 10:28:17 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102714.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 10:16:06 2014
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1251

Delta R.T. -0.00 min

Lab File: BE088329.D

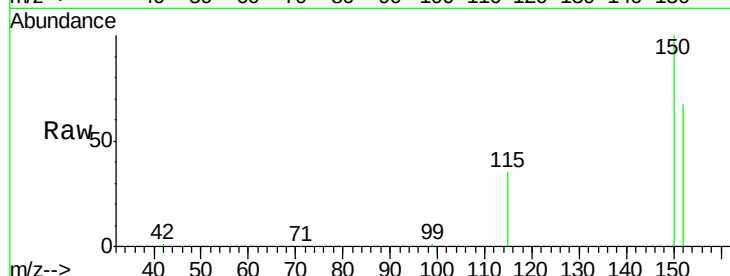
Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

ClientSampleId :

YS19-SB30-1014



Tgt Ion:152 Resp: 29260

Ion Ratio Lower Upper

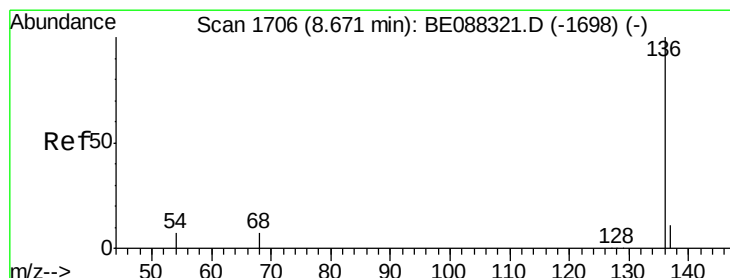
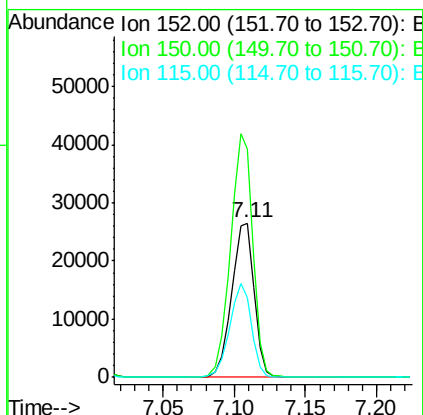
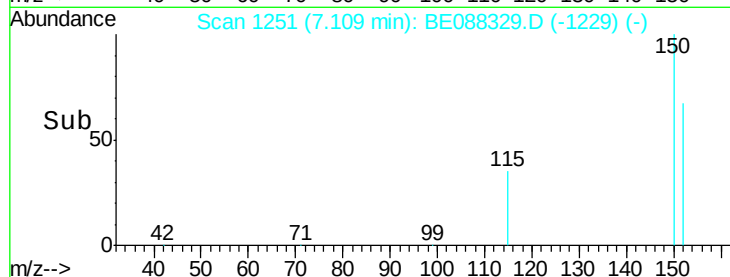
152 100

150 148.4 119.3 178.9

115 51.9 42.6 64.0

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.66 min Scan# 1705

Delta R.T. -0.01 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

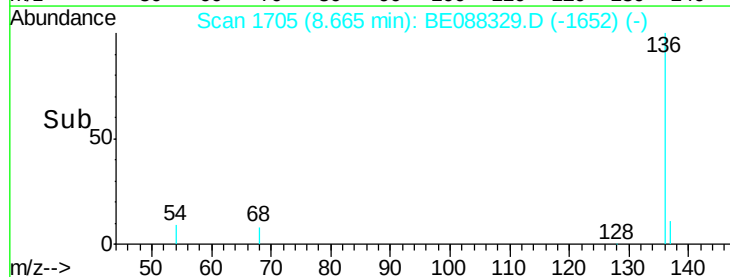
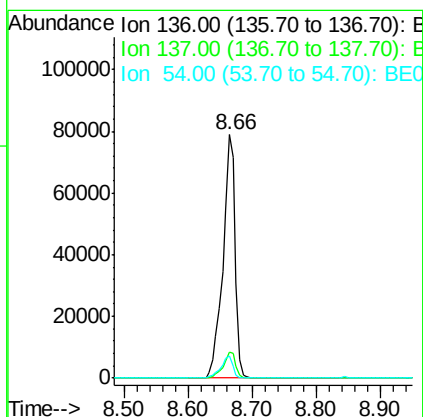
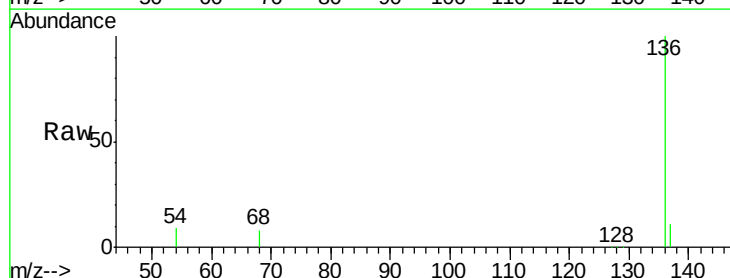
Tgt Ion:136 Resp: 102733

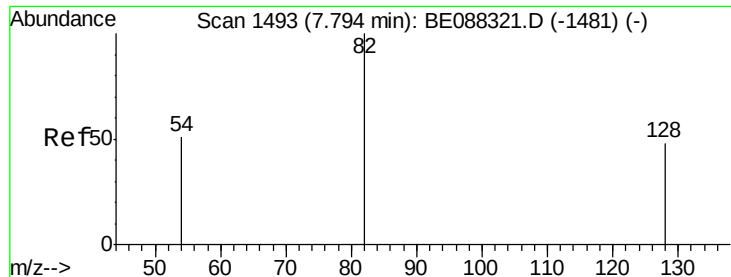
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 8.9 5.5 8.3#





#4

Nitrobenzene-d5

Concen: 91.76 ng

RT: 7.81 min Scan# 1498

Delta R.T. 0.01 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

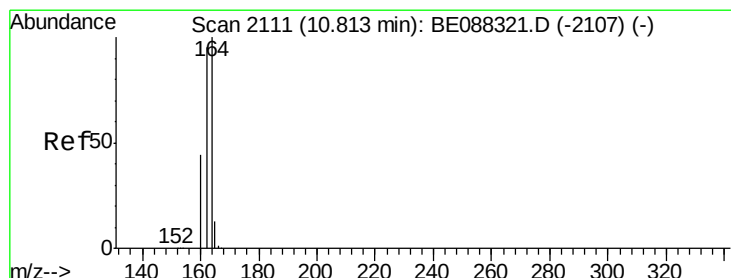
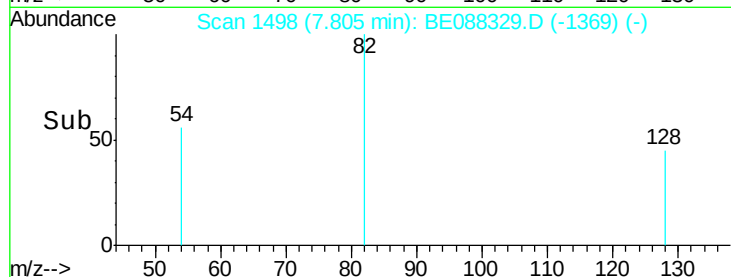
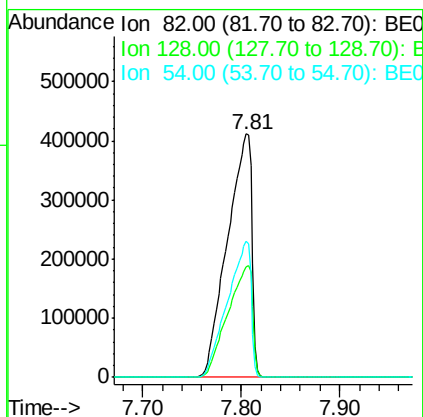
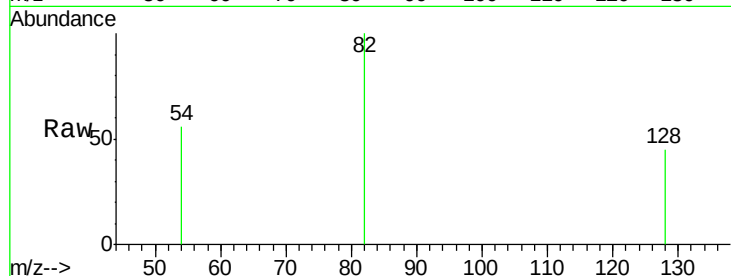
ClientSampleId :

YS19-SB30-1014

Tgt Ion:	82	Resp:	710160
Ion Ratio	Lower	Upper	
82	100		
128	45.4	38.7	58.1
54	55.9	41.0	61.4

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#7

Acenaphthene-d10

Concen: 5.00 ng

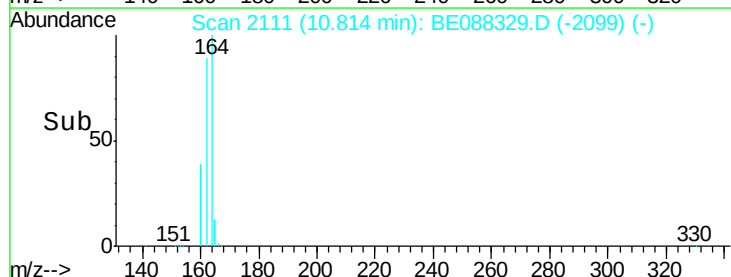
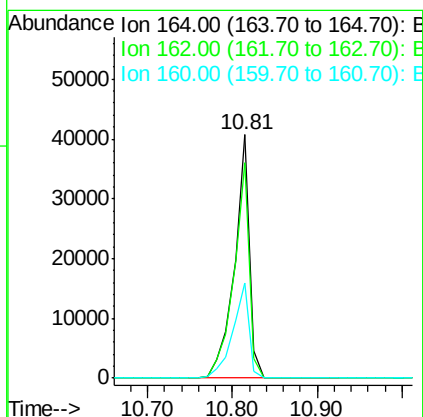
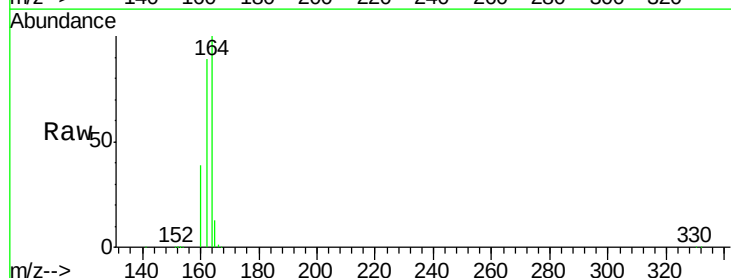
RT: 10.81 min Scan# 2111

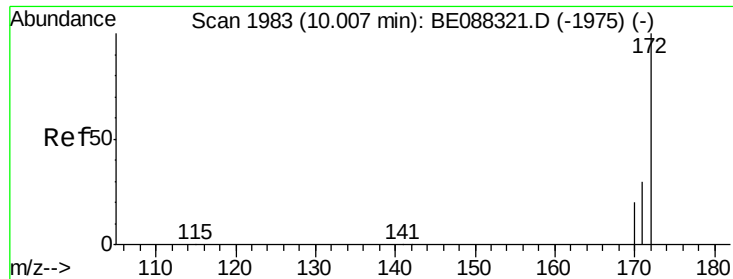
Delta R.T. 0.00 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

Tgt Ion:	164	Resp:	50028
Ion Ratio	Lower	Upper	
164	100		
162	88.7	75.7	113.5
160	38.9	35.6	53.4





#8

2-Fluorobiphenyl

Concen: 64.50 ng

RT: 10.01 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE088329.D

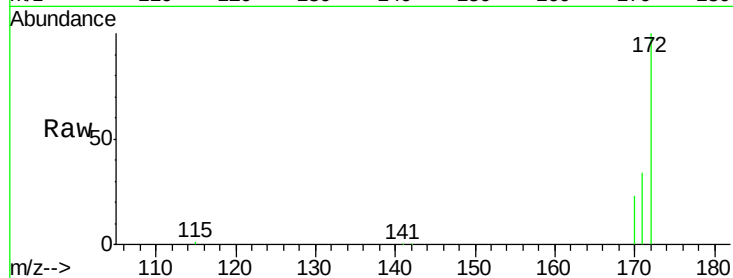
Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

ClientSampleId :

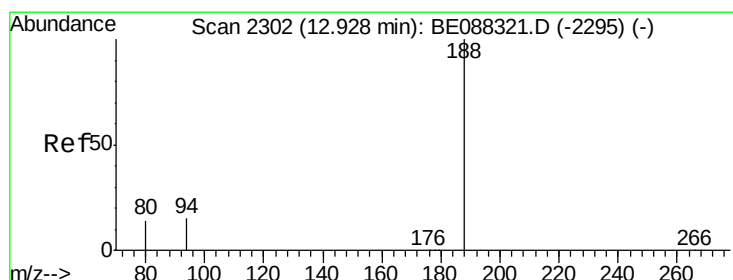
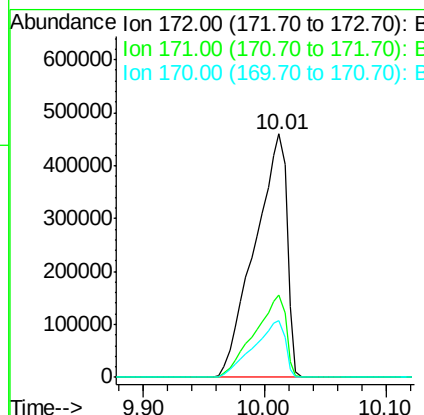
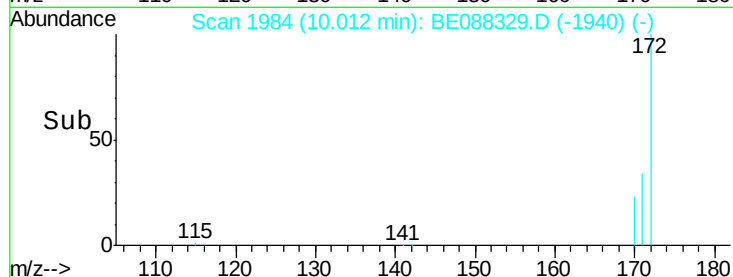
YS19-SB30-1014



Tgt Ion:	172	Resp:	844239
Ion Ratio	Lower	Upper	
172	100		
171	33.9	24.5	36.7
170	23.4	15.8	23.6

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#12

Phenanthrene-d10

Concen: 5.00 ng

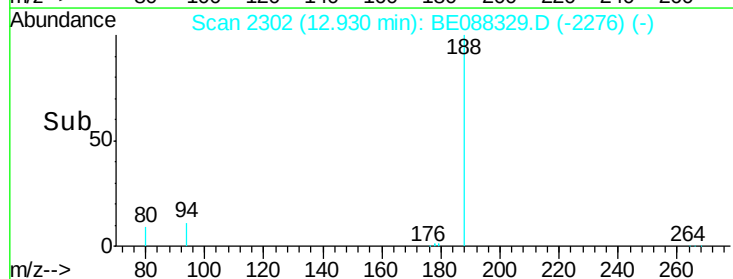
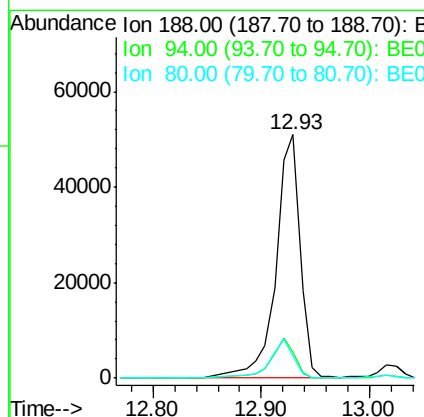
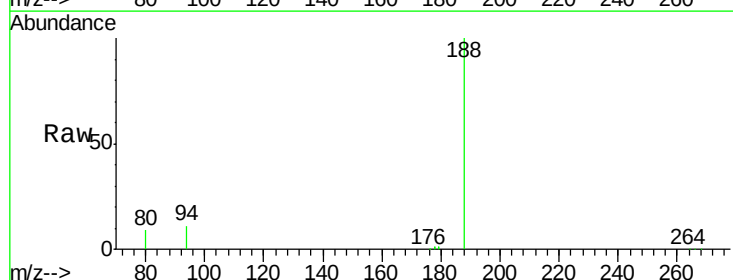
RT: 12.93 min Scan# 2302

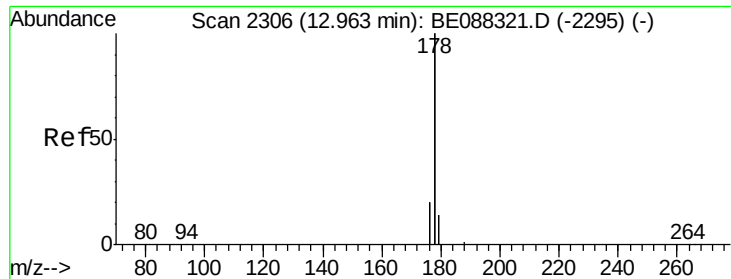
Delta R.T. 0.00 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

Tgt Ion:	188	Resp:	102619
Ion Ratio	Lower	Upper	
188	100		
94	10.8	12.0	18.0#
80	9.4	11.3	16.9#





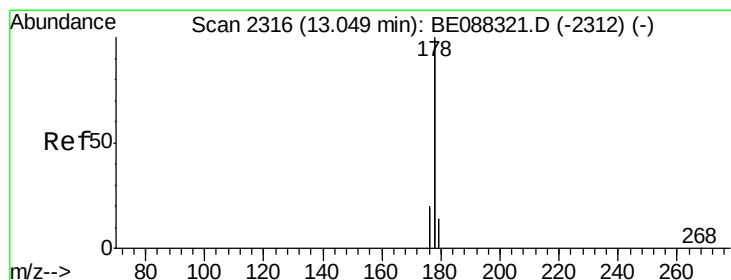
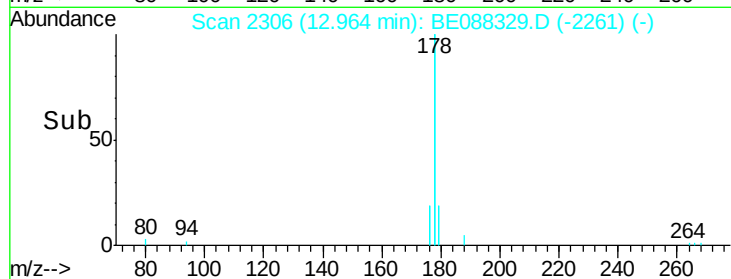
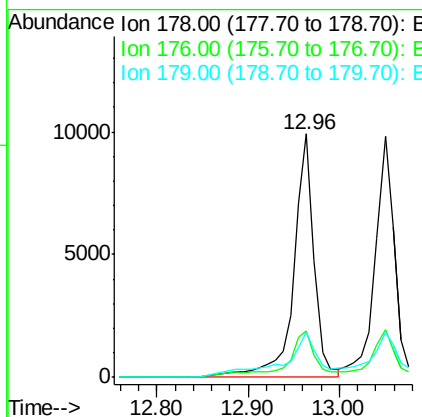
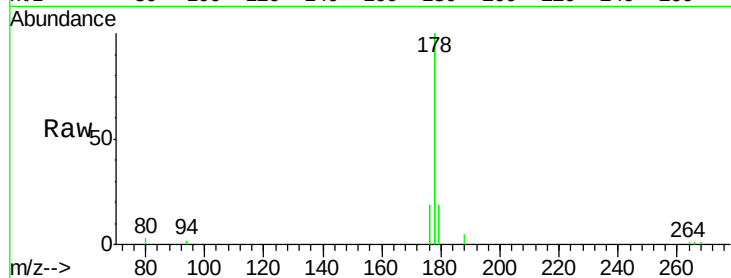
#13
Phenanthrene
Concen: 0.10 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088329.D
Acq: 28 Oct 2014 00:11

Instrument :
BNA_E
ClientSampleId :
YS19-SB30-1014

Tgt Ion	Ratio	Lower	Upper
178	100		
176	26.0	15.8	23.6#
179	30.0	13.2	19.8#

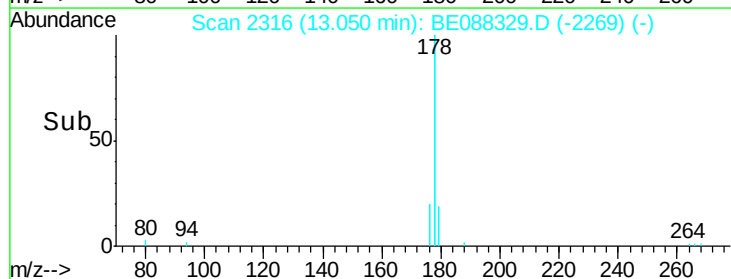
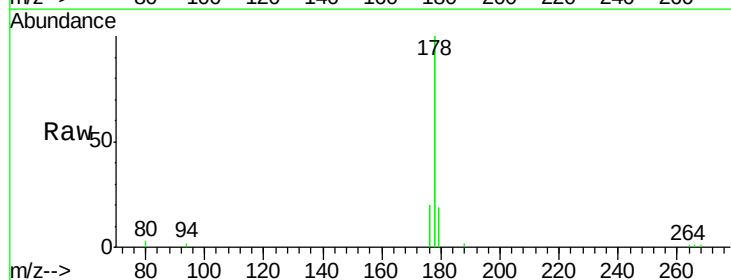
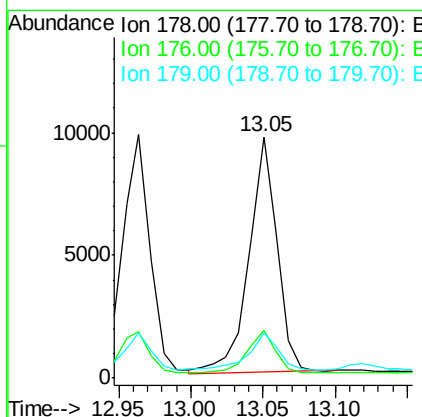
Manual Integrations
APPROVED

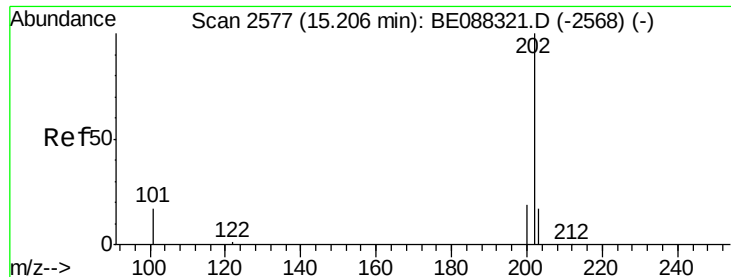
mohammad
10/29/2014 11:11:44 AM



#14
Anthracene
Concen: 0.07 ng
RT: 13.05 min Scan# 2316
Delta R.T. 0.00 min
Lab File: BE088329.D
Acq: 28 Oct 2014 00:11

Tgt Ion	Ratio	Lower	Upper
178	100		
176	21.4	14.6	21.8
179	21.0	12.6	18.8#





#15

Fluoranthene

Concen: 0.85 ng

RT: 15.21 min Scan# 2577

Delta R.T. 0.00 min

Lab File: BE088329.D

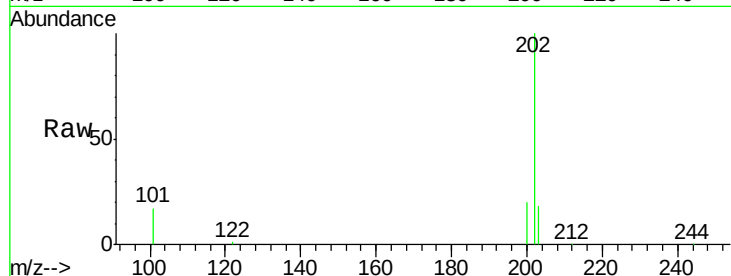
Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

ClientSampleId :

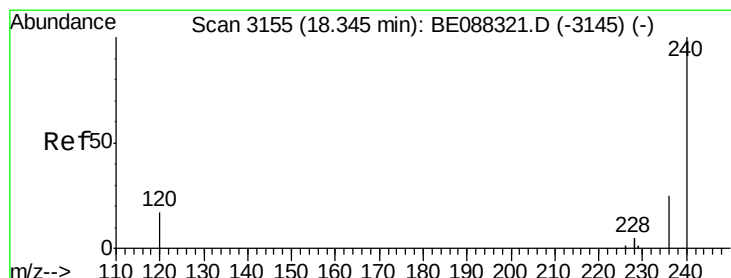
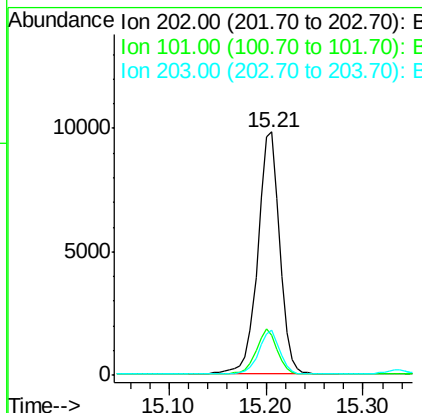
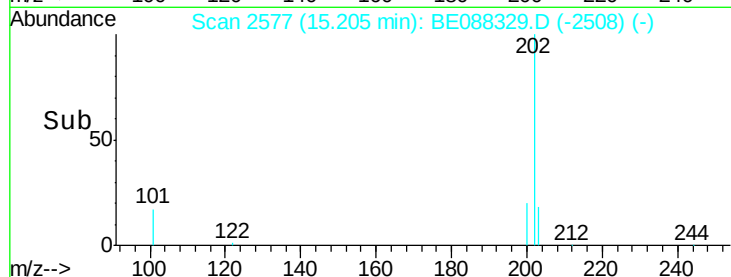
YS19-SB30-1014



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	15145		
101	17.8	14.6	21.8	
203	17.2	13.8	20.6	

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#16

Chrysene-d12

Concen: 5.00 ng

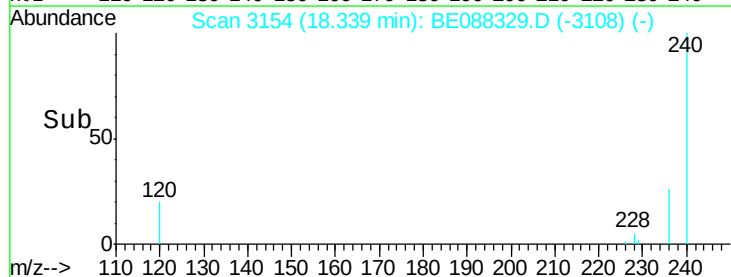
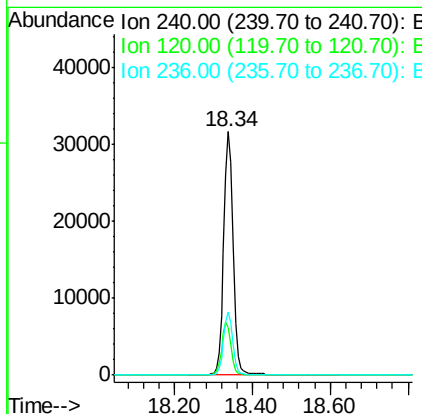
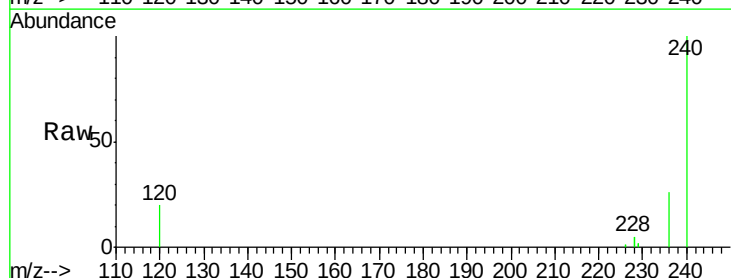
RT: 18.34 min Scan# 3154

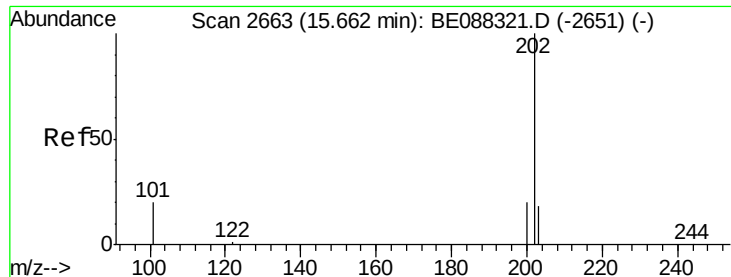
Delta R.T. -0.01 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	54510		
120	19.8	13.4	20.0	
236	25.7	20.0	30.0	





#17

Pyrene

Concen: 0.79 ng

RT: 15.66 min Scan# 2662

Delta R.T. -0.01 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

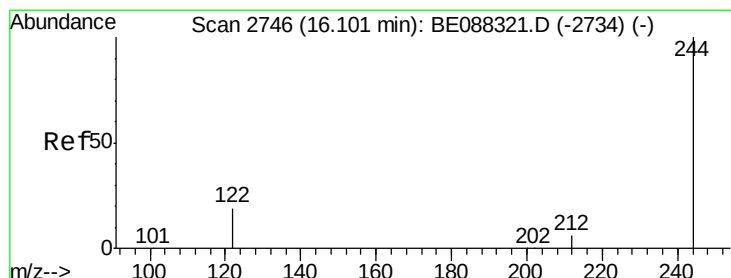
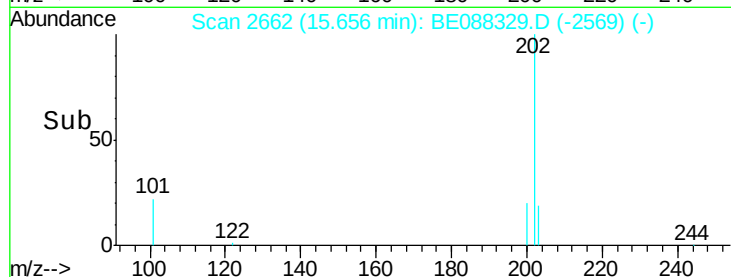
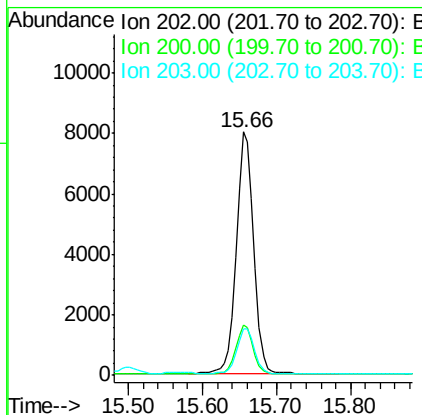
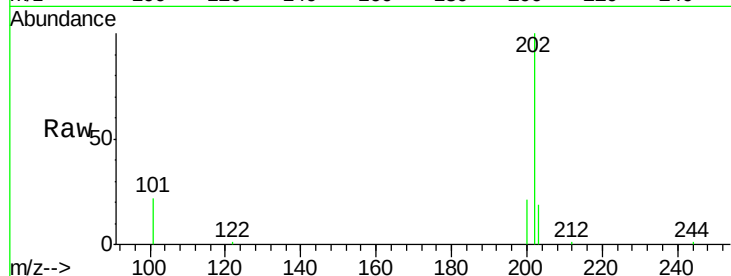
ClientSampleId :

YS19-SB30-1014

Tgt Ion:	202	Resp:	13020
Ion Ratio	Lower	Upper	
202	100		
200	20.0	16.1	24.1
203	18.8	13.9	20.9

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#18

Terphenyl-d14

Concen: 64.87 ng

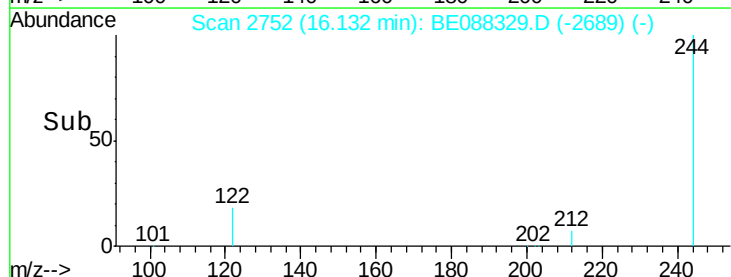
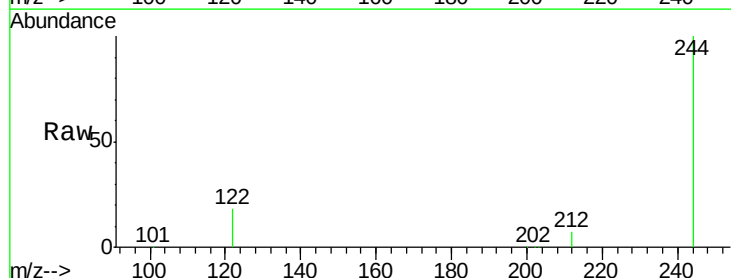
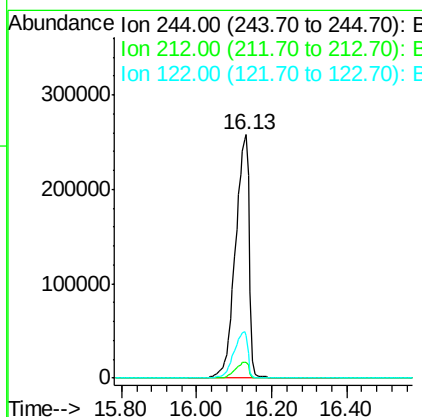
RT: 16.13 min Scan# 2752

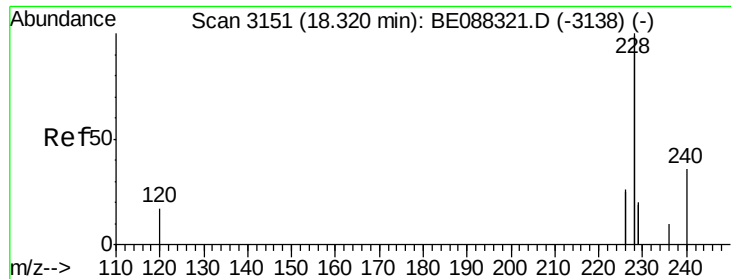
Delta R.T. 0.03 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

Tgt Ion:	244	Resp:	661331
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.1	7.7
122	17.7	15.8	23.8





#19

Benzo(a)anthracene

Concen: 0.47 ng

RT: 18.32 min Scan# 3151

Delta R.T. 0.00 min

Lab File: BE088329.D

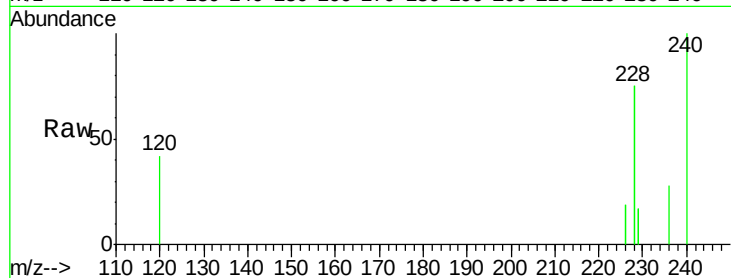
Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

ClientSampleId :

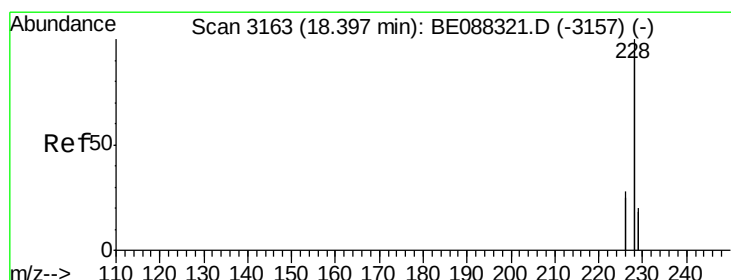
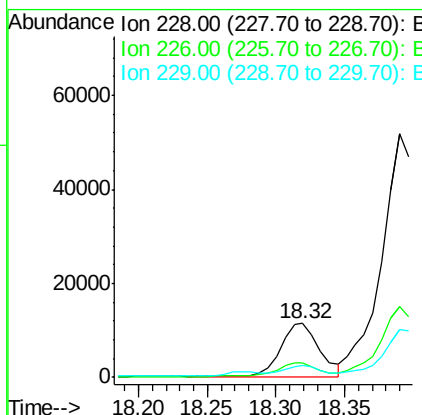
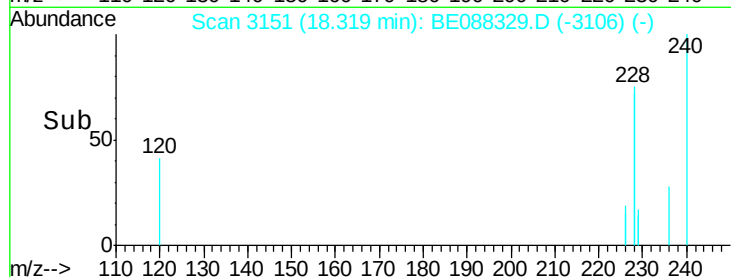
YS19-SB30-1014



Tgt Ion:	228	Resp:	21983
Ion Ratio	Lower	Upper	
228	100		
226	25.8	20.7	31.1
229	22.6	15.7	23.5

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#20

Chrysene

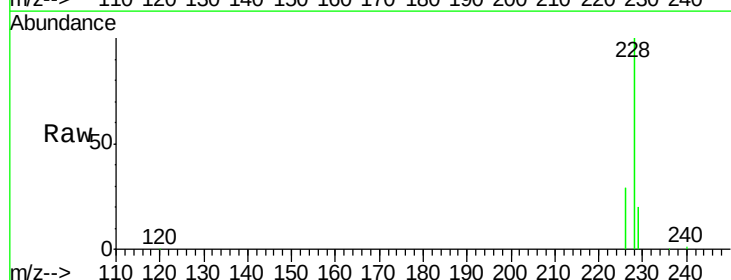
Concen: 2.03 ng

RT: 18.39 min Scan# 3162

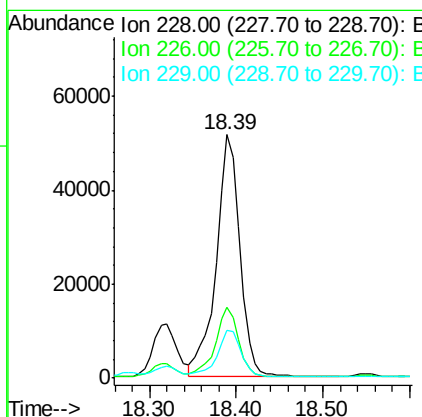
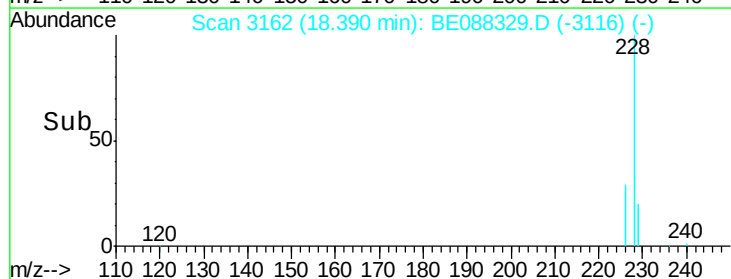
Delta R.T. -0.01 min

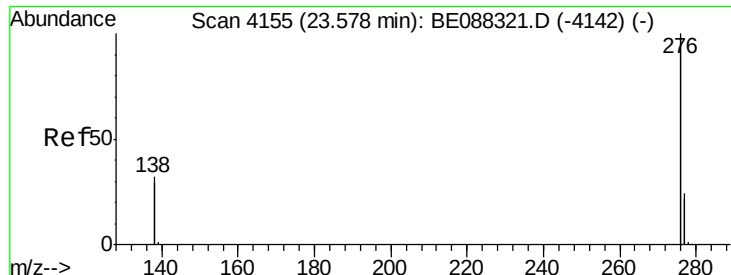
Lab File: BE088329.D

Acq: 28 Oct 2014 00:11



Tgt Ion:	228	Resp:	98692
Ion Ratio	Lower	Upper	
228	100		
226	28.9	22.7	34.1
229	19.8	15.6	23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.38 ng m

RT: 23.57 min Scan# 4154

Delta R.T. -0.01 min

Lab File: BE088329.D

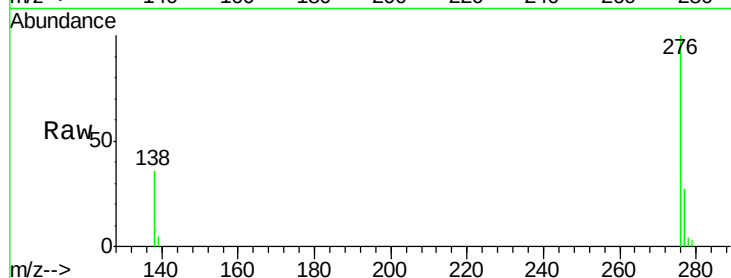
Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

ClientSampleId :

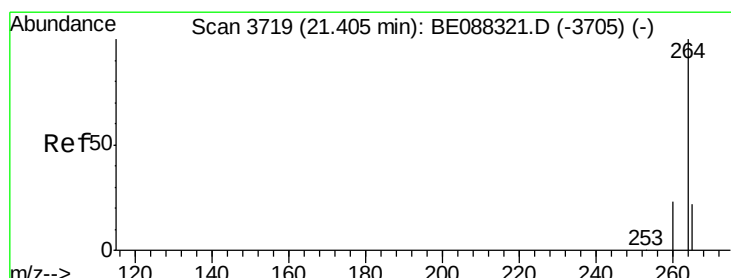
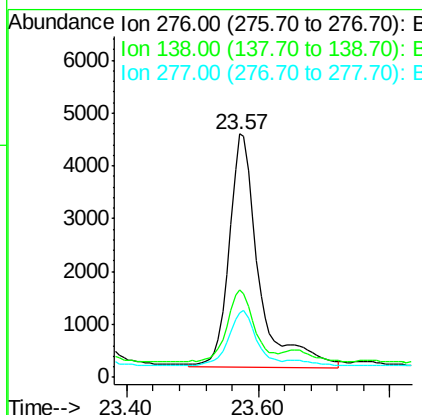
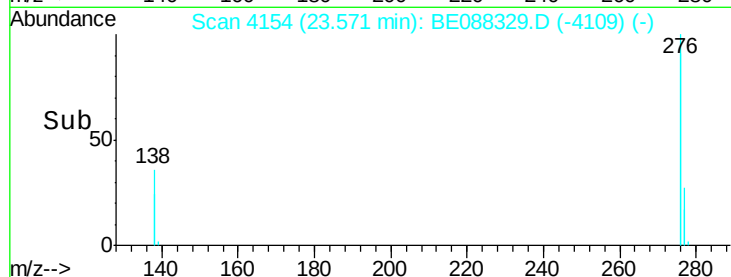
YS19-SB30-1014



Tgt Ion:	276	Resp:	13850
Ion Ratio	Lower	Upper	
276	100		
138	29.8	24.6	37.0
277	21.5	19.0	28.6

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#22

Perylene-d12

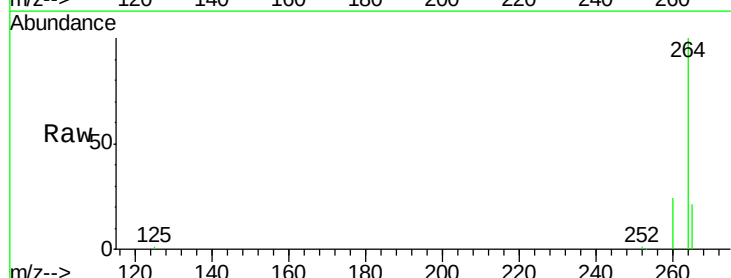
Concen: 5.00 ng

RT: 21.40 min Scan# 3717

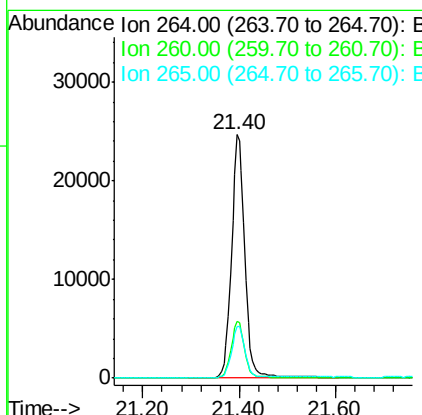
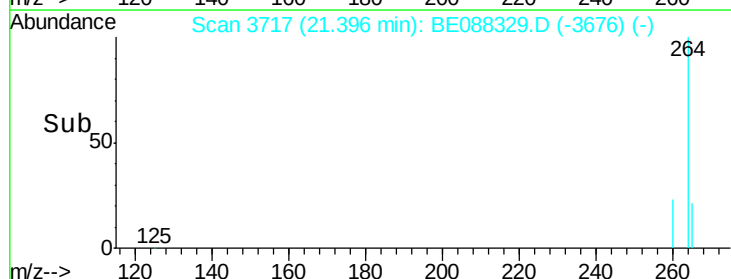
Delta R.T. -0.01 min

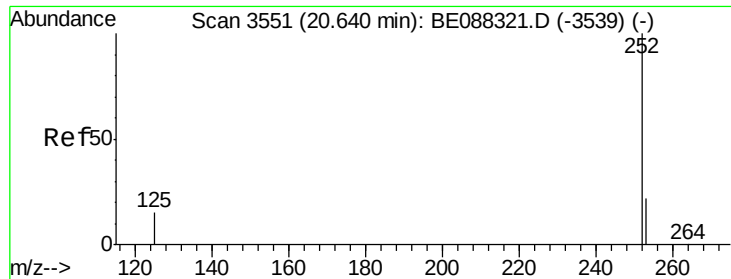
Lab File: BE088329.D

Acq: 28 Oct 2014 00:11



Tgt Ion:	264	Resp:	46833
Ion Ratio	Lower	Upper	
264	100		
260	23.5	18.9	28.3
265	21.3	17.4	26.0





#23

Benzo(b)fluoranthene

Concen: 1.09 ng

RT: 20.64 min Scan# 3551

Delta R.T. -0.00 min

Lab File: BE088329.D

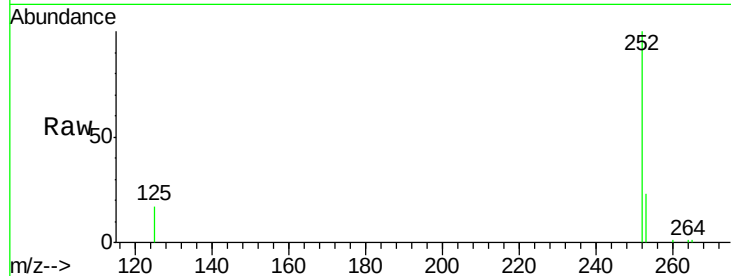
Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

ClientSampleId :

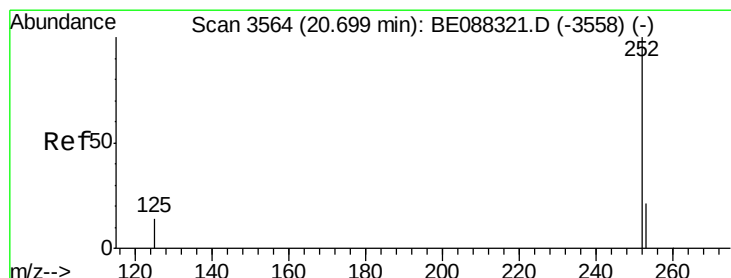
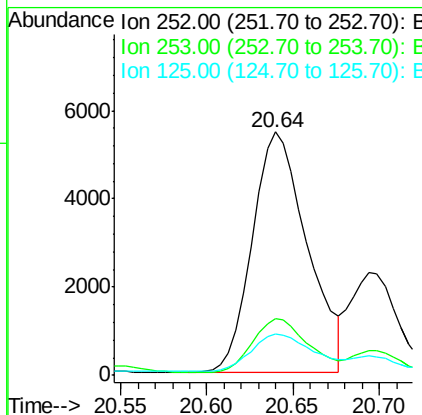
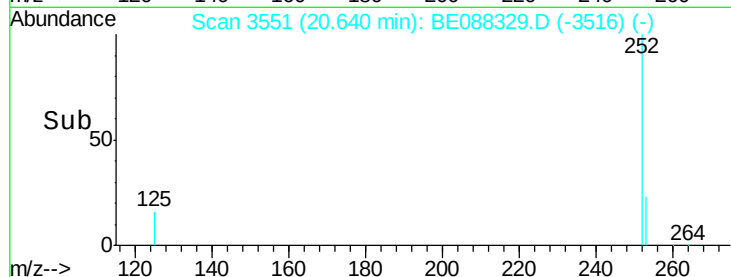
YS19-SB30-1014



Tgt Ion:	252	Resp:	12057
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.7	26.5
125	17.0	12.2	18.2

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#24

Benzo(k)fluoranthene

Concen: 0.33 ng m

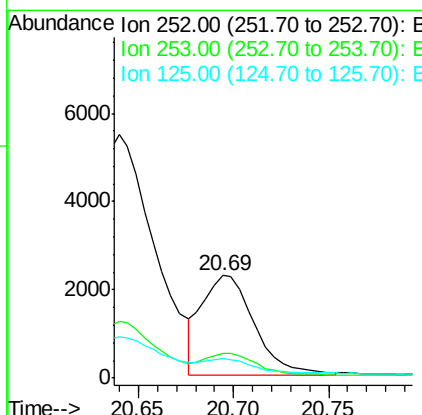
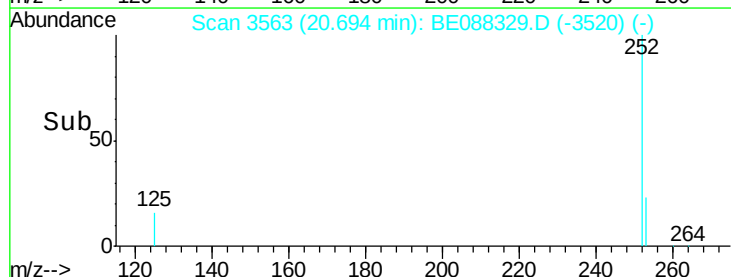
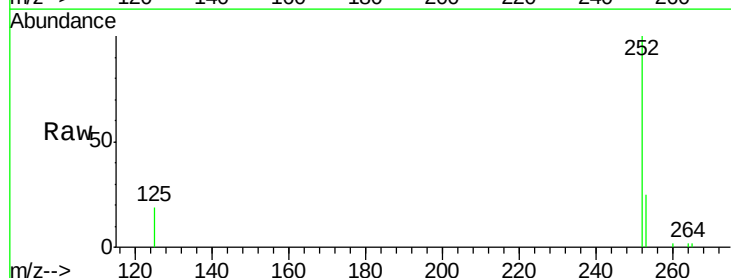
RT: 20.69 min Scan# 3563

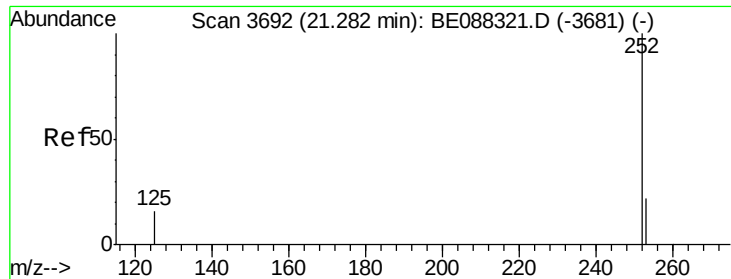
Delta R.T. -0.00 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

Tgt Ion:	252	Resp:	4401
Ion Ratio	Lower	Upper	
252	100		
253	24.6	17.6	26.4
125	19.1	11.9	17.9#





#25

Benzo(a)pyrene

Concen: 0.32 ng

RT: 21.28 min Scan# 3691

Delta R.T. -0.00 min

Lab File: BE088329.D

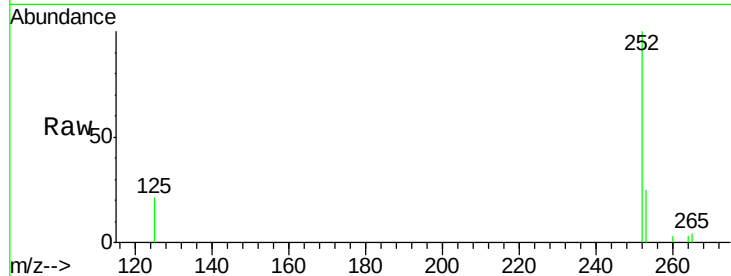
Acq: 28 Oct 2014 00:11

Instrument :

BNA_E

ClientSampleId :

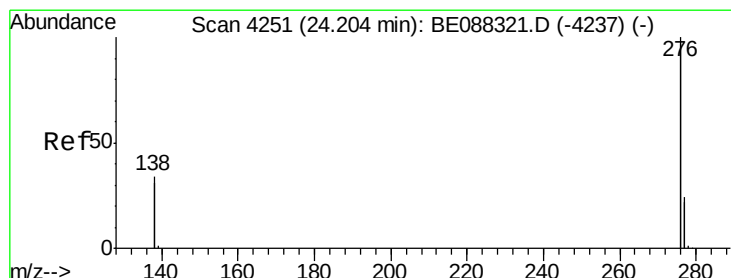
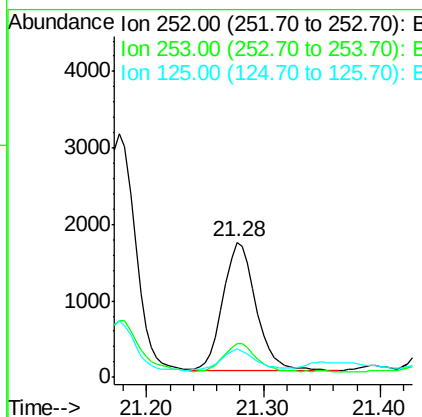
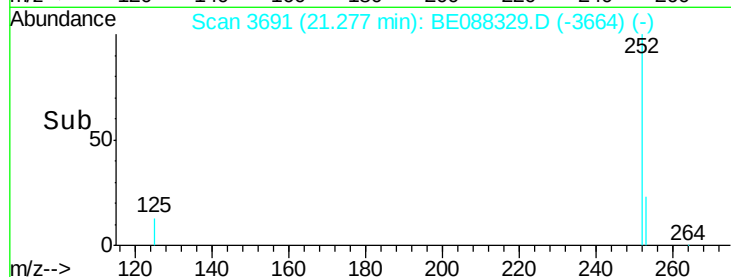
YS19-SB30-1014



Tgt Ion:	252	Resp:	3305
Ion Ratio	Lower	Upper	
252	100		
253	25.2	17.7	26.5
125	20.8	13.2	19.8

Manual Integrations
APPROVED

mohammad
10/29/2014 11:11:44 AM



#27

Benzo(g,h,i)perylene

Concen: 0.30 ng

RT: 24.20 min Scan# 4251

Delta R.T. -0.00 min

Lab File: BE088329.D

Acq: 28 Oct 2014 00:11

Tgt Ion:	276	Resp:	12318
Ion Ratio	Lower	Upper	
276	100		
277	27.6	19.1	28.7
138	35.4	27.0	40.4

