

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
 Data File : BF089900.D
 Acq On : 25 Aug 2016 4:12
 Operator : UM/SJ
 Sample : H4576-09
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-21A-(3-5)

Manual Integrations
 APPROVED

umangi
 8/25/2016 6:50:23 PM

Quant Time: Aug 25 17:48:31 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 19 14:02:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	78764	20.00	ng	0.01
21) Naphthalene-d8	8.17	136	345152	20.00	ng	0.19
38) Acenaphthene-d10	9.96	164	224813	20.00	ng	0.25
63) Phenanthrene-d10	11.43	188	115744m	20.00	ng	0.24
75) Chrysene-d12	13.93	240	876699m	20.00	ng	0.06
86) Perylene-d12	15.30	264	1697319m	20.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.22	112	1342329	292.26	ng	-0.03
7) Phenol-d6	6.31	99	1617107	286.82	ng	-0.01
23) Nitrobenzene-d5	7.34	82	330652	59.52	ng	0.08
41) 2,4,6-Tribromophenol	10.71	330	150910m	70.63	ng	0.21
44) 2-Fluorobiphenyl	9.28	172	590932	46.20	ng	0.23
78) Terphenyl-d14	12.94	244	564529m	14.57	ng	0.15

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.25	128	10067503	624.09	ng	# 71
37) 2-Methylnaphthalene	8.97	142	31069396	2977.16	ng	# 91
45) 1,1'-Biphenyl	9.39	154	3214130m	184.75	ng	
57) Fluorene	10.49	166	2128345	155.47	ng	# 19
65) n-Nitrosodiphenylamine	10.63	169	6150072	1689.92	ng	# 67
70) Phenanthrene	11.45	178	7210412	1233.44	ng	# 63
74) Fluoranthene	12.59	202	372088m	66.92	ng	
77) Pyrene	12.81	202	2453603m	34.37	ng	
87) Benzo(b)fluoranthene	14.93	252	198534m	2.13	ng	

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

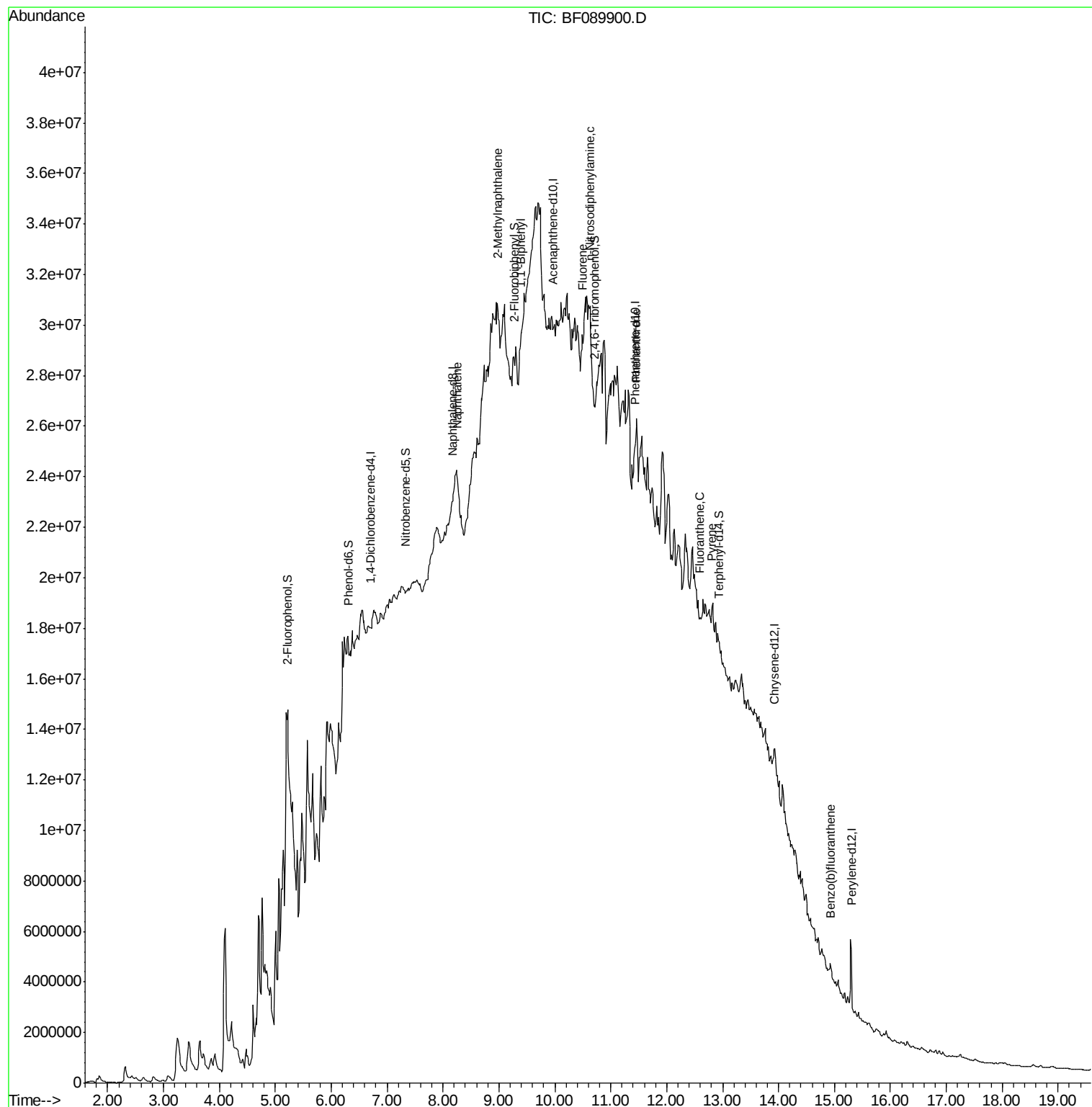
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
Data File : BF089900.D
Acq On : 25 Aug 2016 4:12
Operator : UM/SJ
Sample : H4576-09
Misc :
ALS Vial : 35 Sample Multiplier: 1

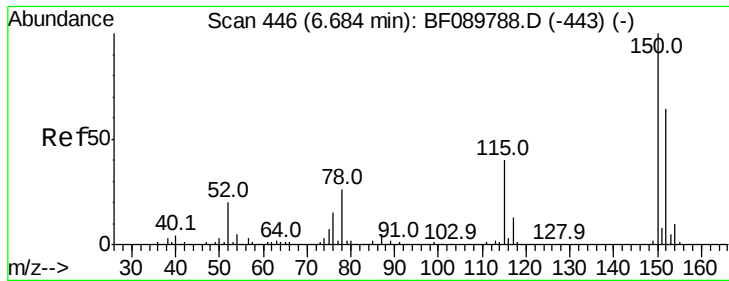
Instrument :
BNA_F
ClientSampleId :
SB-21A-(3-5)

Manual Integrations
APPROVED

umangi
8/25/2016 6:50:23 PM

Quant Time: Aug 25 17:48:31 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 19 14:02:57 2016
Response via : Initial Calibration





#1

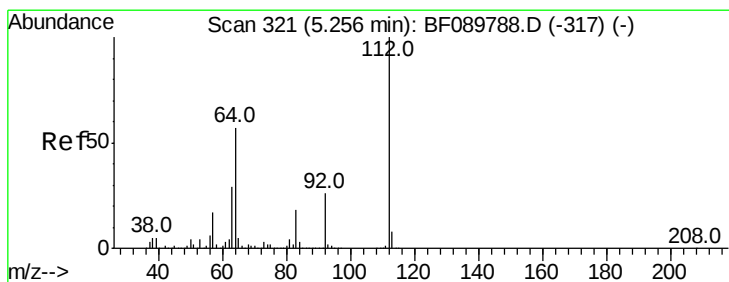
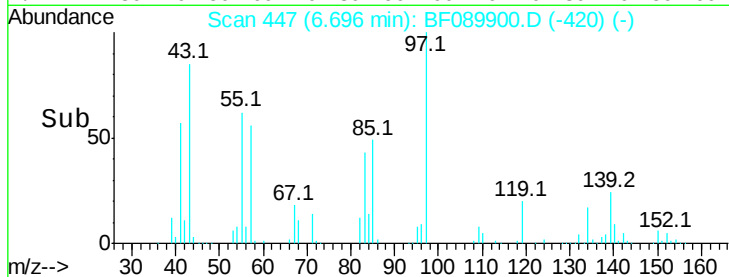
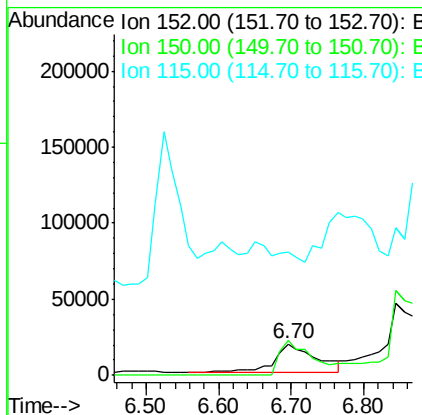
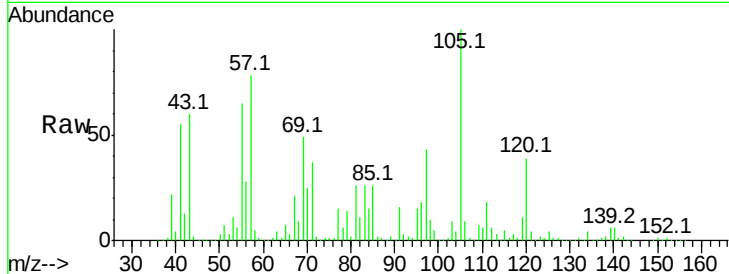
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.70 min Scan# 447
Delta R.T. 0.01 min
Lab File: BF089900.D
Acq: 25 Aug 2016 4:12

Instrument :
BNA_F
ClientSampleId :
SB-21A-(3-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	113.1	125.3	187.9#
115	396.1	40.9	61.3#

Manual Integrations
APPROVED

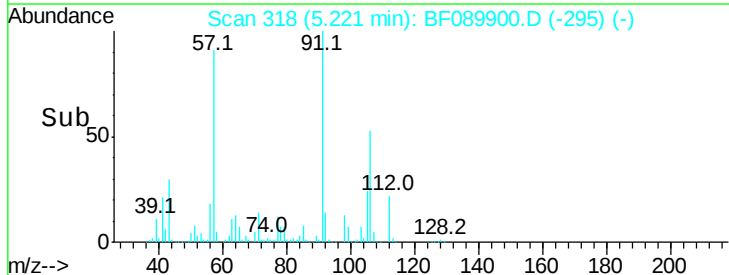
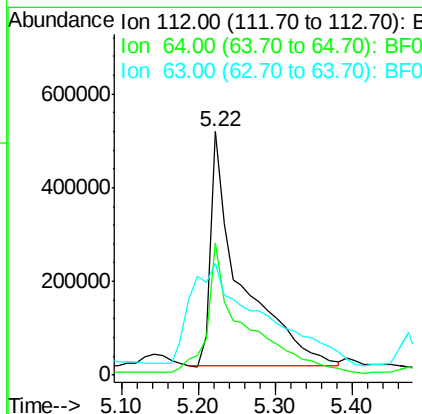
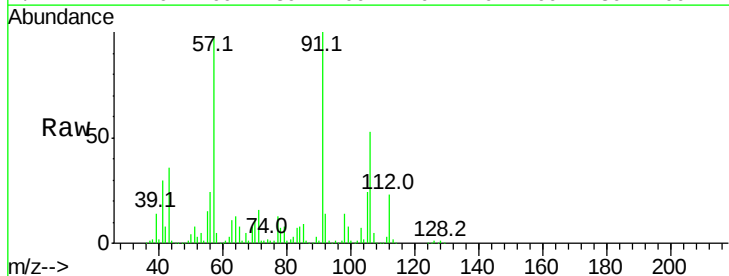
umangi
8/25/2016 6:50:23 PM

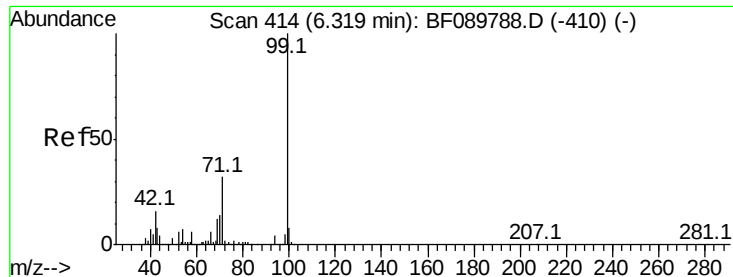


#5

2-Fluorophenol
Concen: 292.26 ng
RT: 5.22 min Scan# 318
Delta R.T. -0.03 min
Lab File: BF089900.D
Acq: 25 Aug 2016 4:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.2	45.0	67.4
63	46.1	23.1	34.7#





#7

Phenol-d6

Concen: 286.82 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.01 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Instrument :

BNA_F

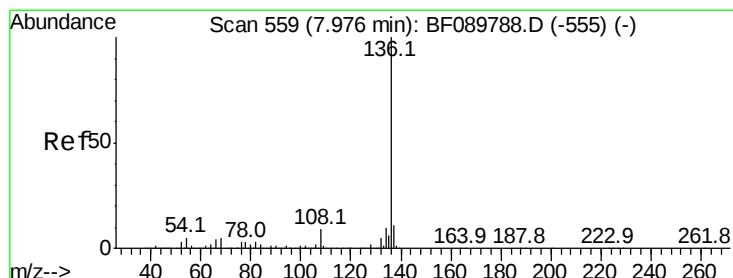
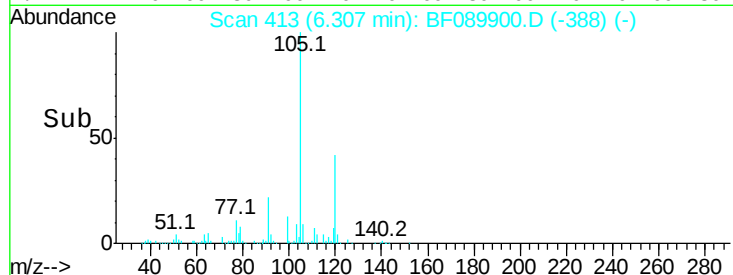
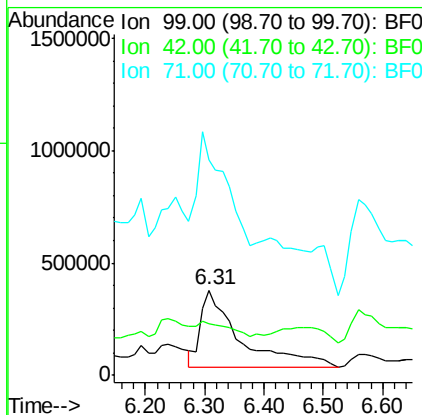
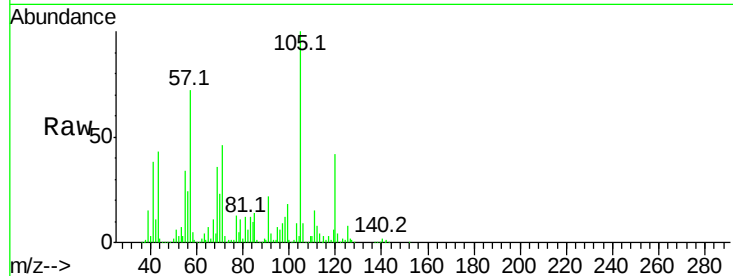
ClientSampleId :

SB-21A-(3-5)

Tot Ion:	99	Resp:	1617107
Ion	Ratio	Lower	Upper
99	100		
42	59.9	12.2	18.4#
71	252.9	23.8	35.8#

Manual Integrations
APPROVED

umangi
8/25/2016 6:50:23 PM



#21

Naphthalene-d8

Concen: 20.00 ng

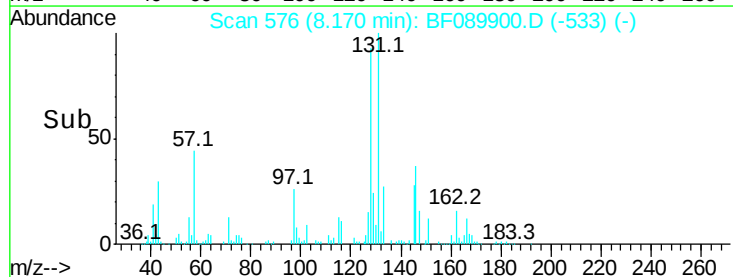
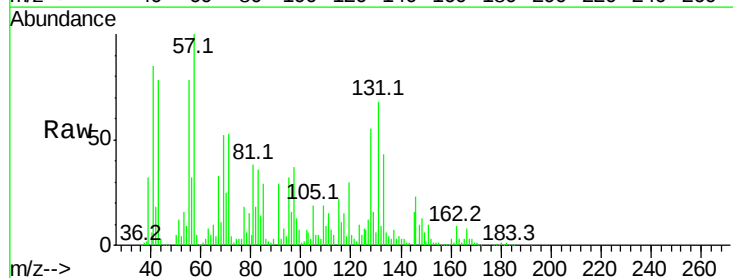
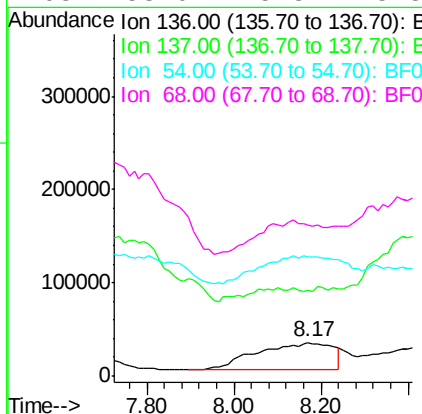
RT: 8.17 min Scan# 576

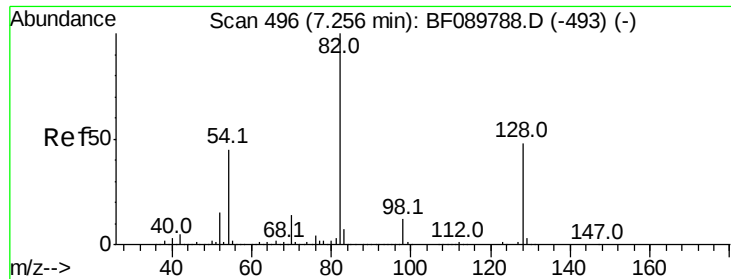
Delta R.T. 0.19 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Tgt Ion:	136	Resp:	345152
Ion	Ratio	Lower	Upper
136	100		
137	257.9	9.2	13.8#
54	357.9	7.2	10.8#
68	453.0	5.8	8.8#





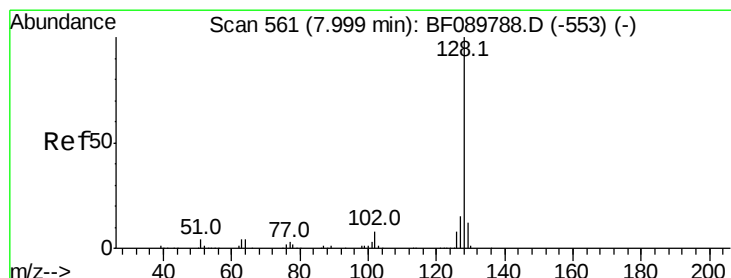
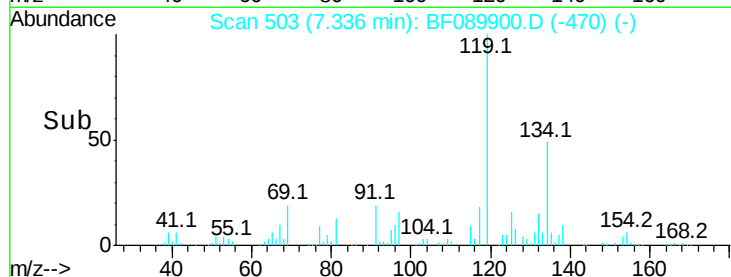
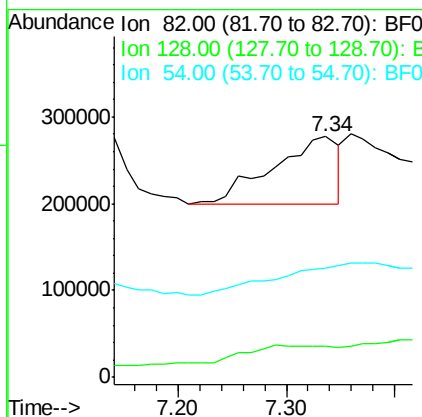
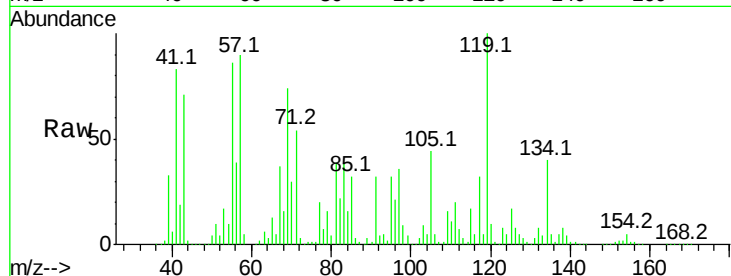
#23
 Nitrobenzene-d5
 Concen: 59.52 ng
 RT: 7.34 min Scan# 503
 Delta R.T. 0.08 min
 Lab File: BF089900.D
 Acq: 25 Aug 2016 4:12

Instrument :
 BNA_F
 ClientSampled :
 SB-21A-(3-5)

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	12.9	34.4	51.6#	
54	45.5	40.3	60.5	

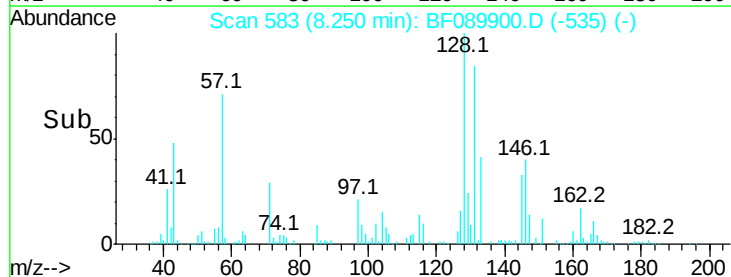
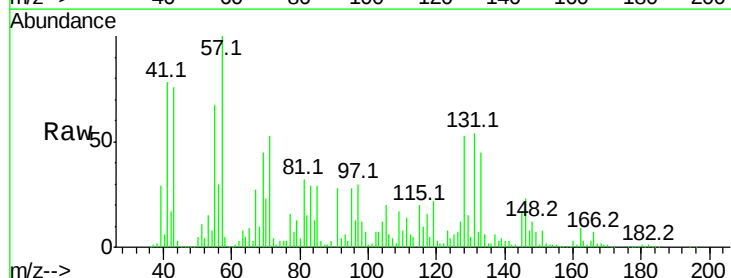
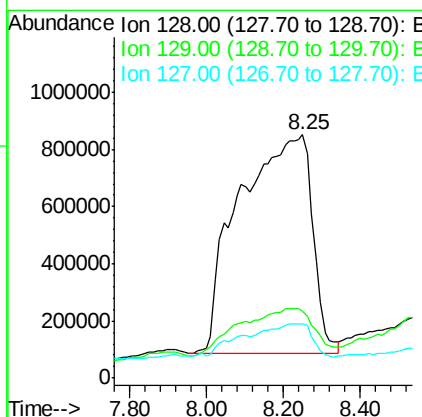
Manual Integrations
 APPROVED

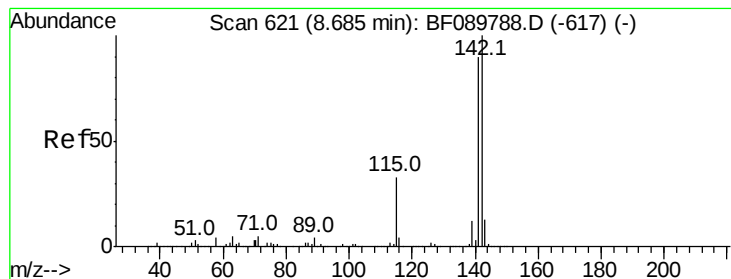
umangi
 8/25/2016 6:50:23 PM



#31
 Naphthalene
 Concen: 624.09 ng
 RT: 8.25 min Scan# 583
 Delta R.T. 0.25 min
 Lab File: BF089900.D
 Acq: 25 Aug 2016 4:12

Tgt Ion	Ratio	Lower	Upper
128	100		
129	27.3	9.5	14.3#
127	22.4	11.3	16.9#





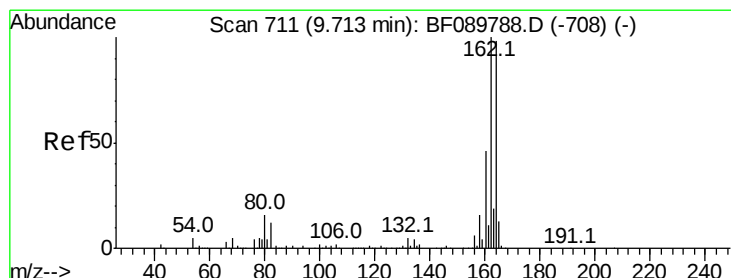
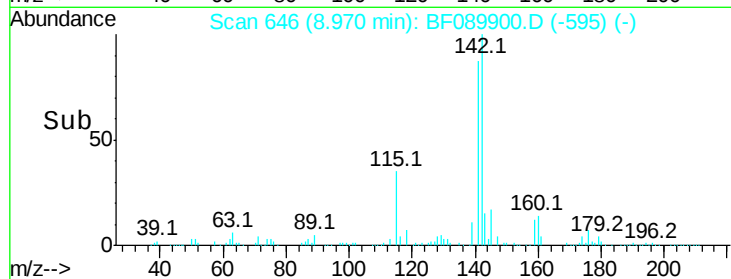
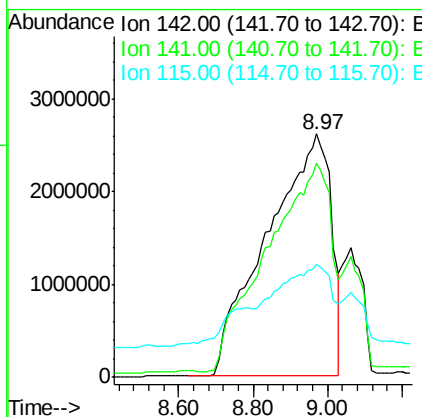
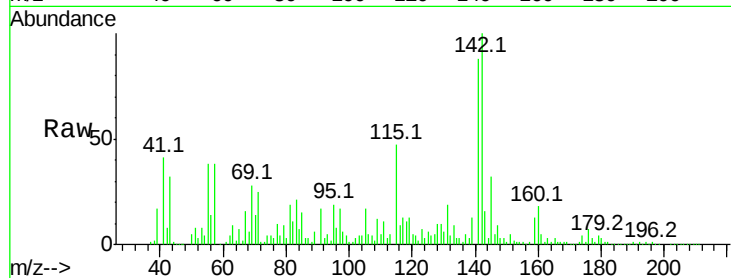
#37
2-Methylnaphthalene
Concen: 2977.16 ng
RT: 8.97 min Scan# 646
Delta R.T. 0.29 min
Lab File: BF089900.D
Acq: 25 Aug 2016 4:12

Instrument :
BNA_F
ClientSampleId :
SB-21A-(3-5)

Tot Ion:142 Resp:31069396
Ion Ratio Lower Upper
142 100
141 88.1 71.4 107.2
115 46.7 22.7 34.1#

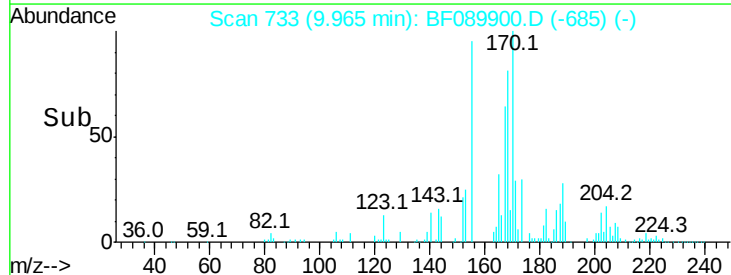
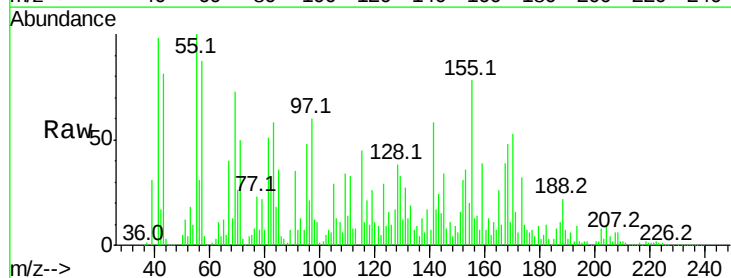
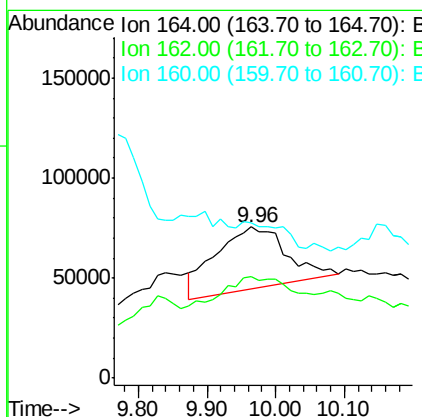
Manual Integrations
APPROVED

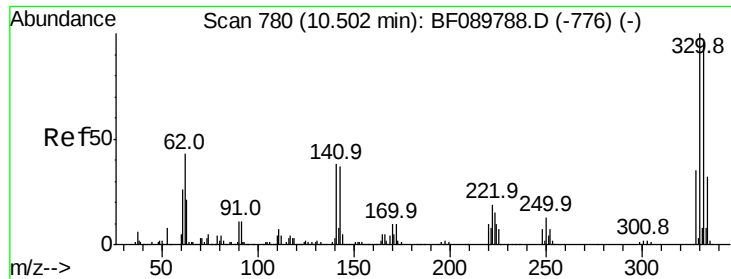
umangi
8/25/2016 6:50:23 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.96 min Scan# 733
Delta R.T. 0.25 min
Lab File: BF089900.D
Acq: 25 Aug 2016 4:12

Tgt Ion:164 Resp: 224813
Ion Ratio Lower Upper
164 100
162 67.0 81.4 122.2#
160 103.3 37.8 56.6#





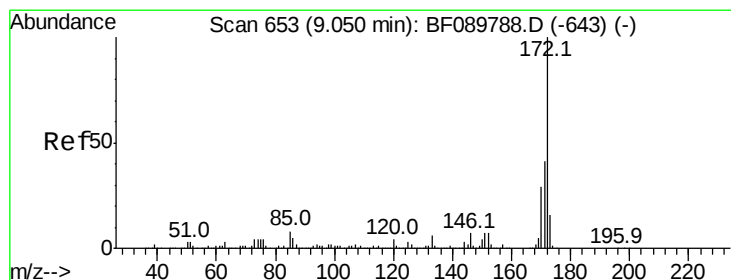
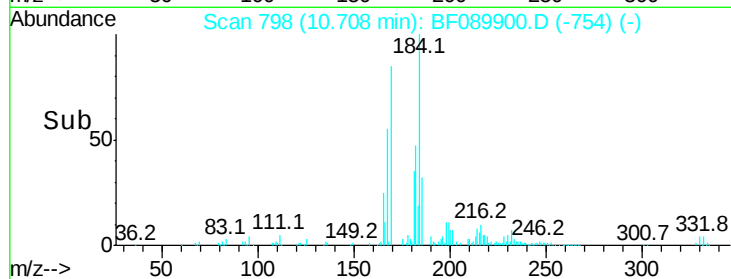
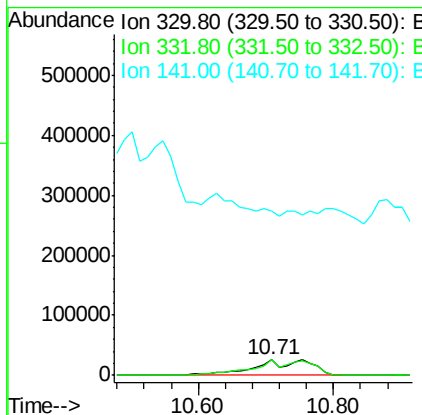
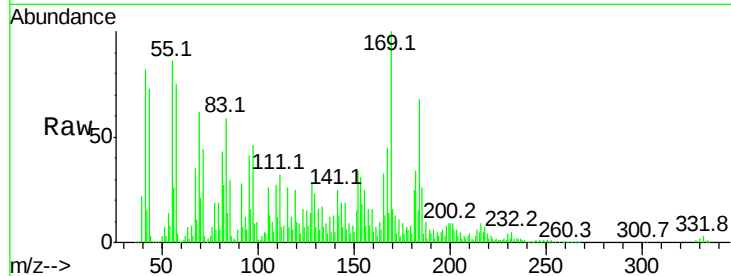
#41
 2,4,6-Tribromophenol
 Concen: 70.63 ng/ml
 RT: 10.71 min Scan# 798
 Delta R.T. 0.21 min
 Lab File: BF089900.D
 Acq: 25 Aug 2016 4:12

Instrument :
 BNA_F
 ClientSampleId :
 SB-21A-(3-5)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	150910		
332	40.0	76.7	115.1#	
141	0.0	30.2	45.2#	

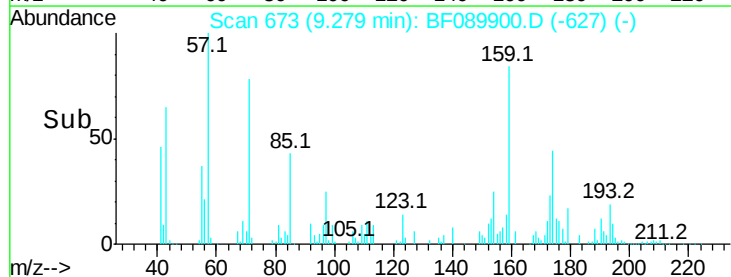
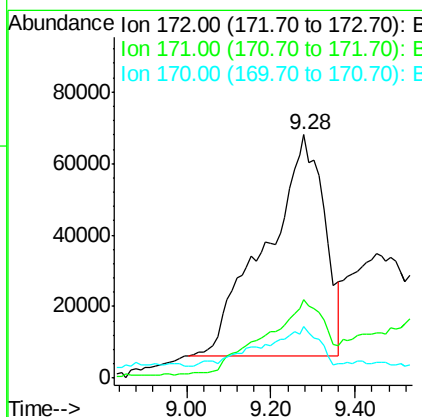
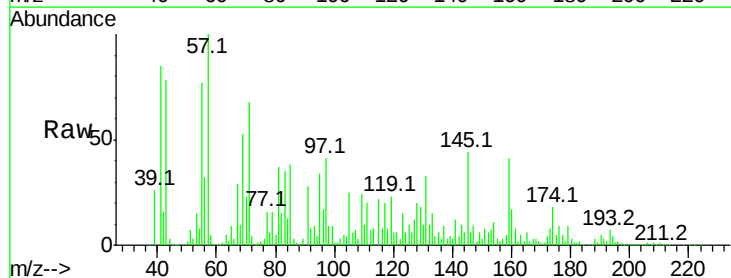
Manual Integrations
 APPROVED

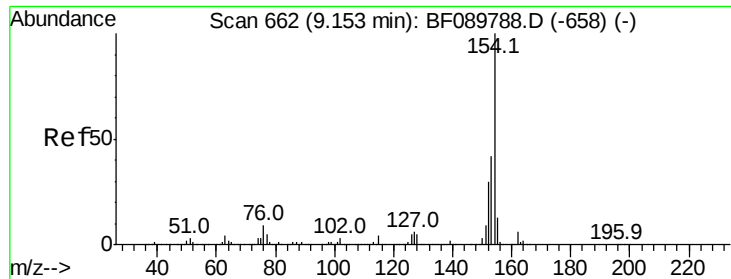
umangi
 8/25/2016 6:50:23 PM



#44
 2-Fluorobiphenyl
 Concen: 46.20 ng/ml
 RT: 9.28 min Scan# 673
 Delta R.T. 0.23 min
 Lab File: BF089900.D
 Acq: 25 Aug 2016 4:12

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	590932		
171	32.3	30.5	45.7	
170	21.1	20.6	31.0	





#45

1,1'-Biphenyl

Concen: 184.75 ng/mL

RT: 9.39 min Scan# 683

Delta R.T. 0.24 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Instrument :

BNA_F

ClientSampleID :

SB-21A-(3-5)

Tot Ion:154 Resp: 3214130

Ion Ratio Lower Upper

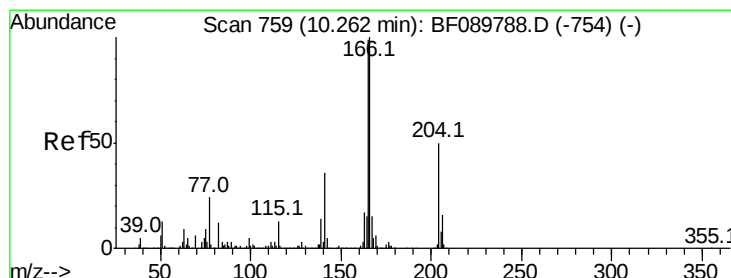
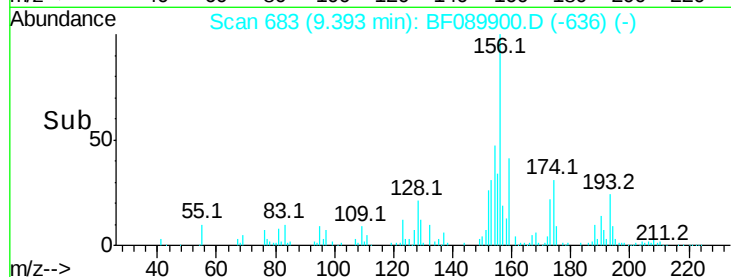
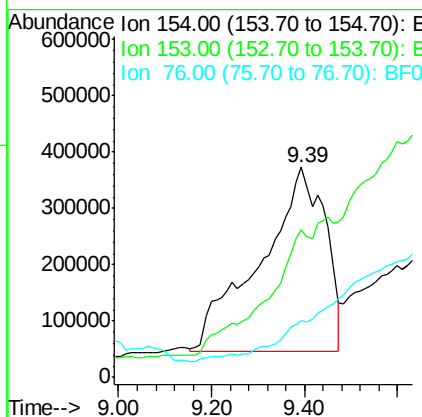
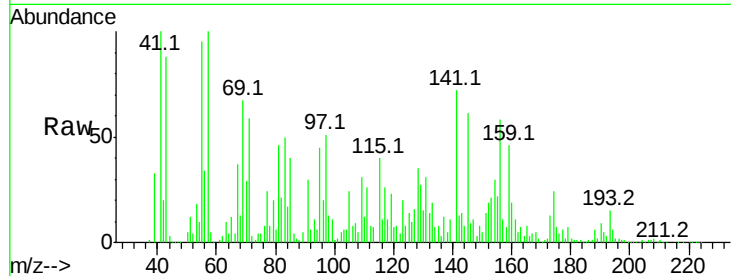
154 100

153 70.1 21.5 61.5#

76 27.1 0.0 36.7

Manual Integrations
APPROVED

umangi
8/25/2016 6:50:23 PM



#57

Fluorene

Concen: 155.47 ng

RT: 10.49 min Scan# 779

Delta R.T. 0.23 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

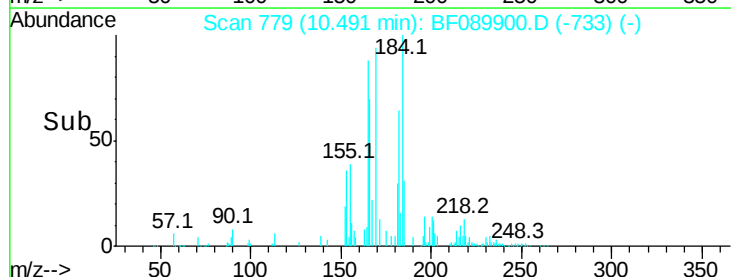
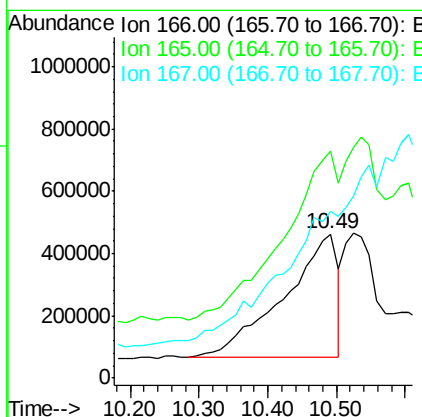
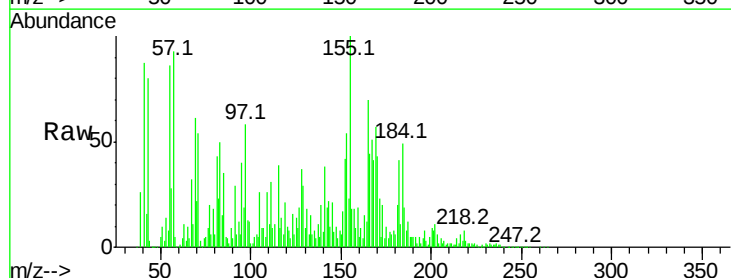
Tgt Ion:166 Resp: 2128345

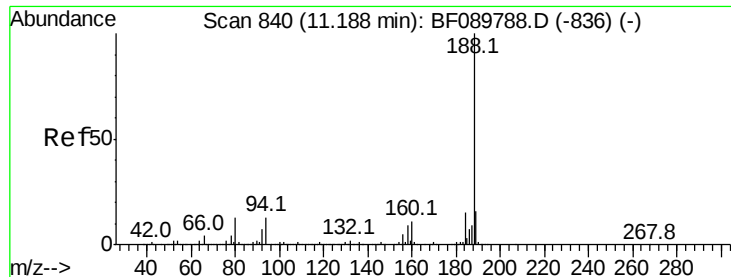
Ion Ratio Lower Upper

166 100

165 157.3 80.2 120.4#

167 115.4 11.3 16.9#





#63

Phenanthrene-d10

Concen: 20.00 ng/mL

RT: 11.43 min Scan# 861

Delta R.T. 0.24 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Instrument :

BNA_F

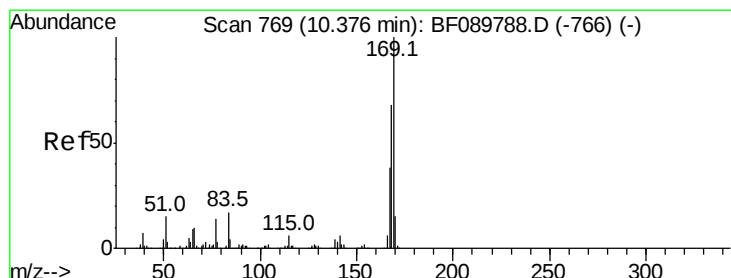
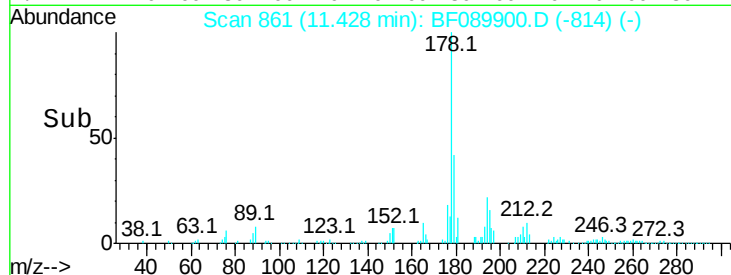
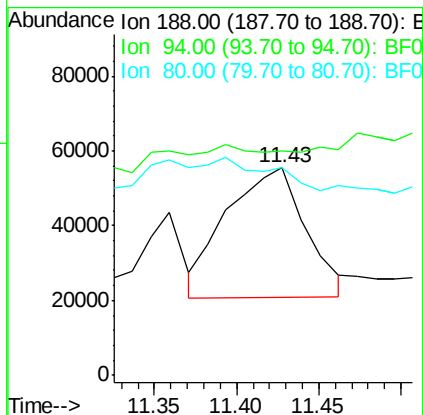
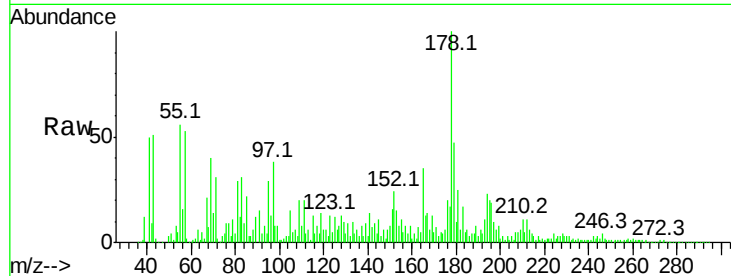
ClientSampleId :

SB-21A-(3-5)

Tot Ion:	188	Resp:	115744
Ion Ratio	Lower	Upper	
188	100		
94	108.0	10.2	15.2#
80	100.3	10.9	16.3#

Manual Integrations
APPROVED

umangi
8/25/2016 6:50:23 PM



#65

n-Nitrosodiphenylamine

Concen: 1689.92 ng/mL

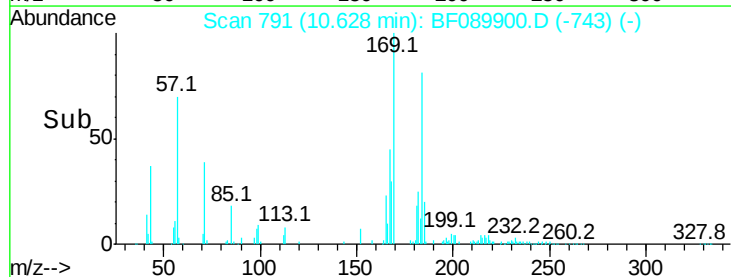
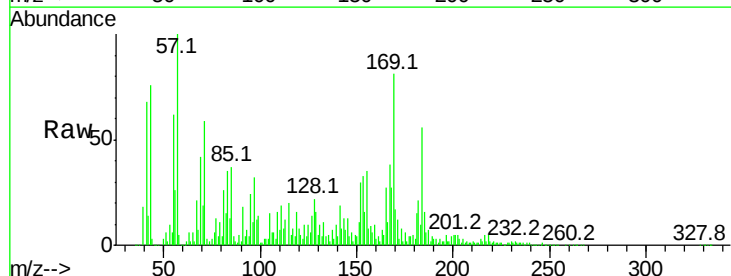
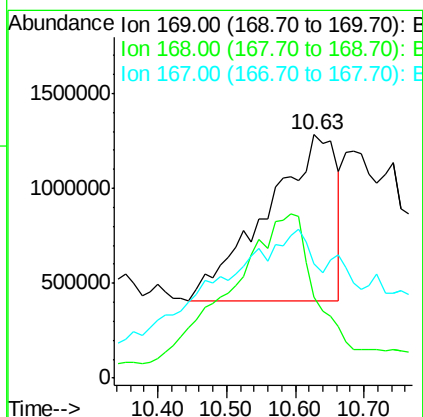
RT: 10.63 min Scan# 791

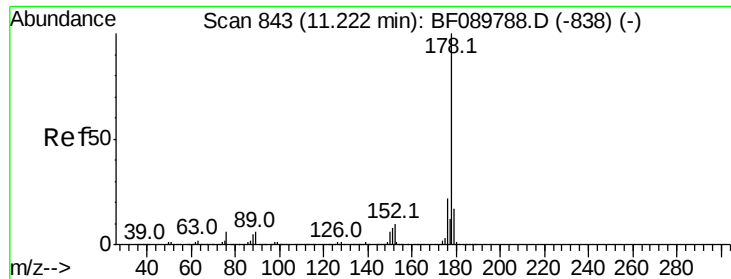
Delta R.T. 0.25 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Tgt Ion:	169	Resp:	6150072
Ion Ratio	Lower	Upper	
169	100		
168	33.5	54.6	82.0#
167	47.0	30.6	45.8#





#70

Phenanthrene

Concen: 1233.44 ng

RT: 11.45 min Scan# 863

Delta R.T. 0.23 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Instrument :

BNA_F

ClientSampleId :

SB-21A-(3-5)

Tot Ion:178 Resp: 7210412

Ion Ratio Lower Upper

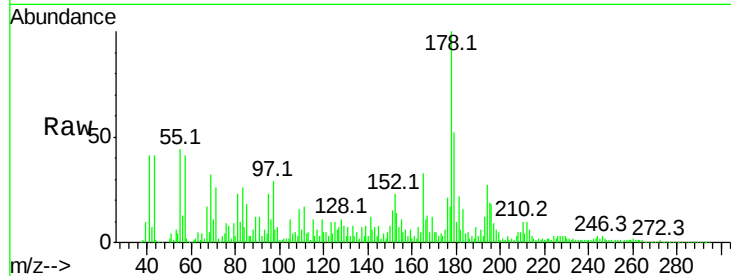
178 100

176 20.6 16.4 24.6

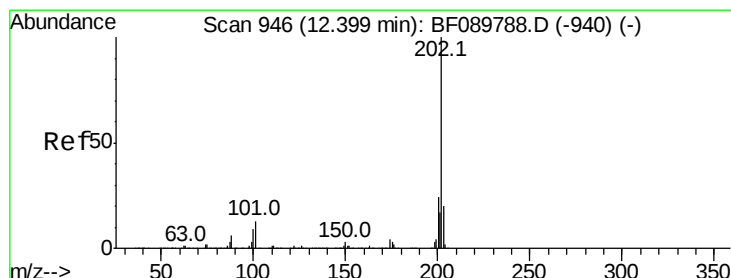
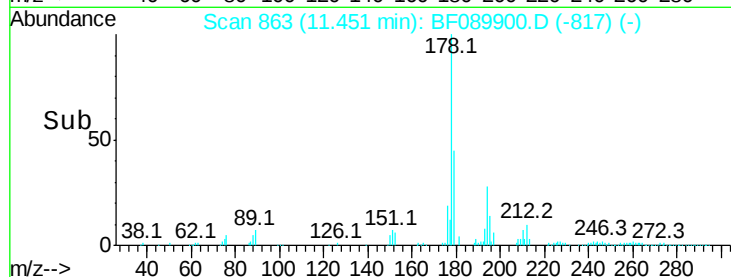
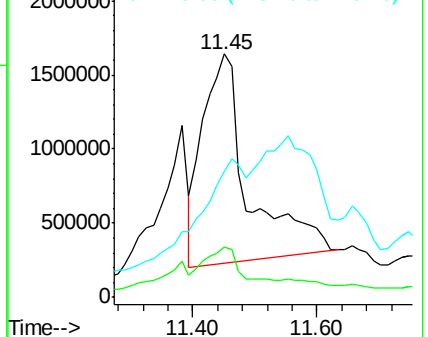
179 51.9 12.5 18.7#

Manual Integrations
APPROVED

umangi
8/25/2016 6:50:23 PM



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



#74

Fluoranthene

Concen: 66.92 ng m

RT: 12.59 min Scan# 963

Delta R.T. 0.19 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

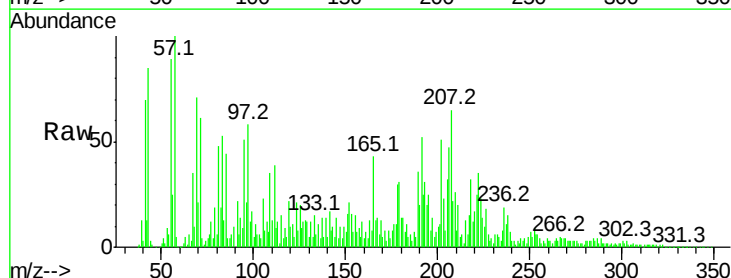
Tgt Ion:202 Resp: 372088

Ion Ratio Lower Upper

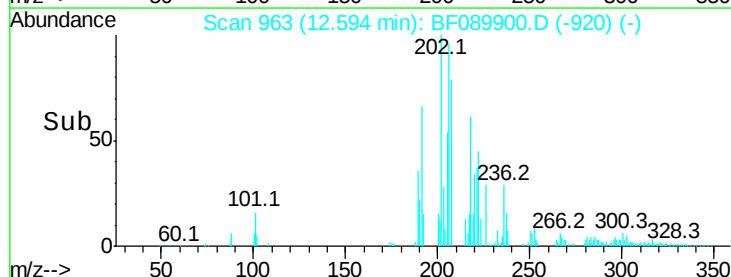
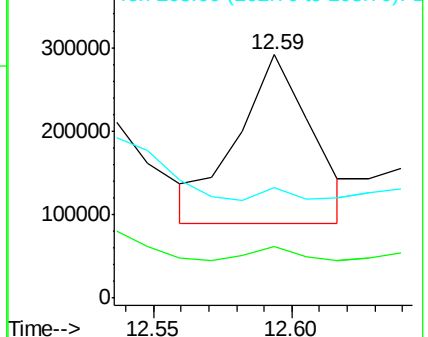
202 100

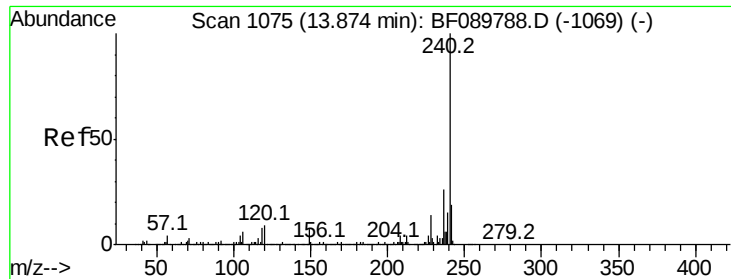
101 21.2 0.0 31.2

203 45.6 0.0 38.1#



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





#75

Chrysene-d12

Concen: 20.00 ng m

RT: 13.93 min Scan# 1080

Delta R.T. 0.06 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Instrument :

BNA_F

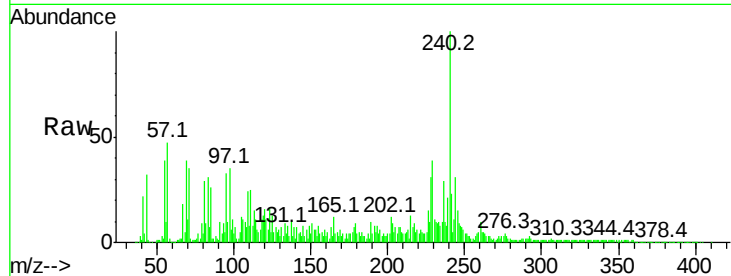
ClientSampleId :

SB-21A-(3-5)

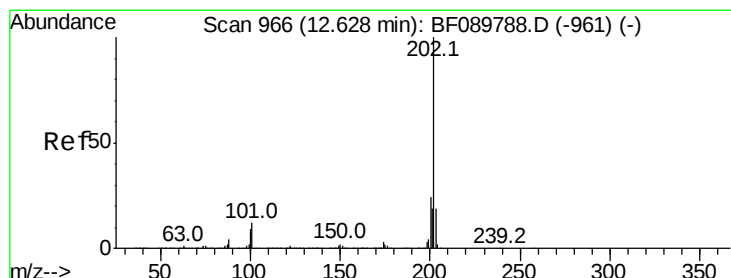
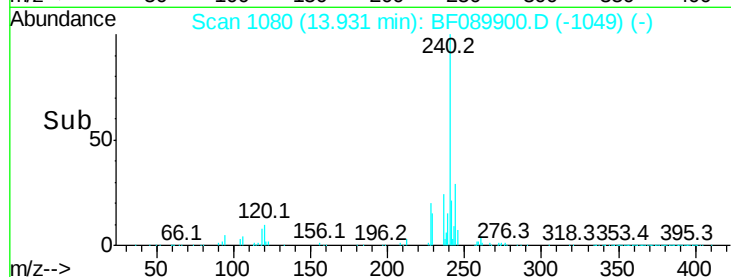
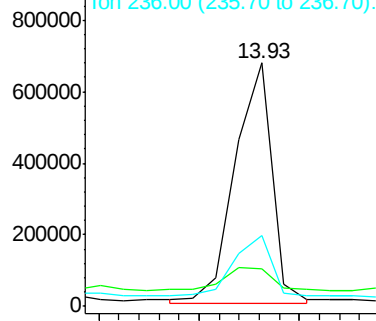
Tot Ion	Ratio	Lower	Upper
240	100		
120	15.5	8.3	12.5#
236	29.2	21.3	31.9

Manual Integrations
APPROVED

umangi
8/25/2016 6:50:23 PM



Abundance Ion 240.00 (239.70 to 240.70): E



#77

Pyrene

Concen: 34.37 ng m

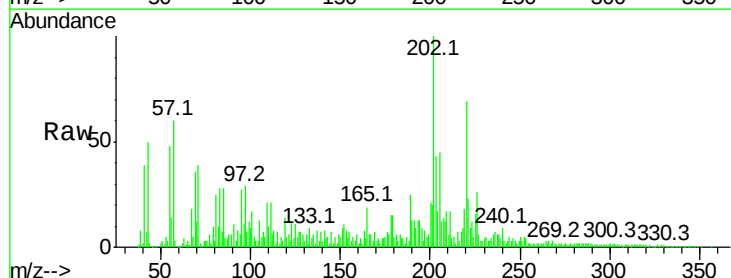
RT: 12.81 min Scan# 982

Delta R.T. 0.18 min

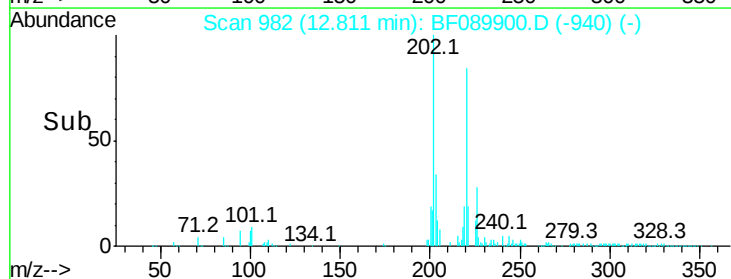
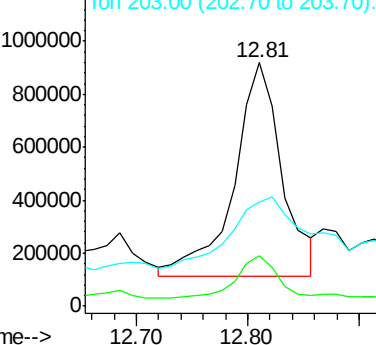
Lab File: BF089900.D

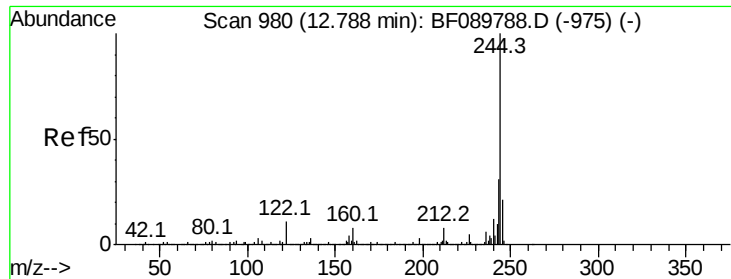
Acq: 25 Aug 2016 4:12

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.8	26.6
203	42.5	14.2	21.4#



Abundance Ion 202.00 (201.70 to 202.70): E





#78

Terphenyl-d14

Concen: 14.57 ng m

RT: 12.94 min Scan# 993

Delta R.T. 0.15 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Instrument :

BNA_F

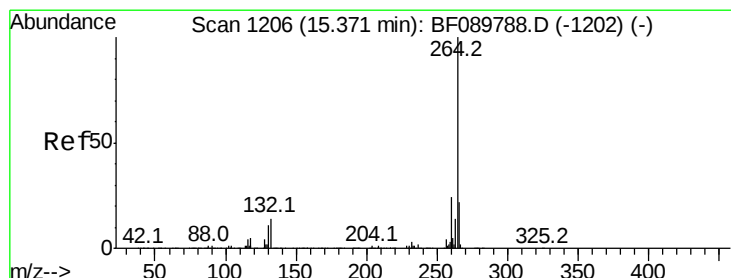
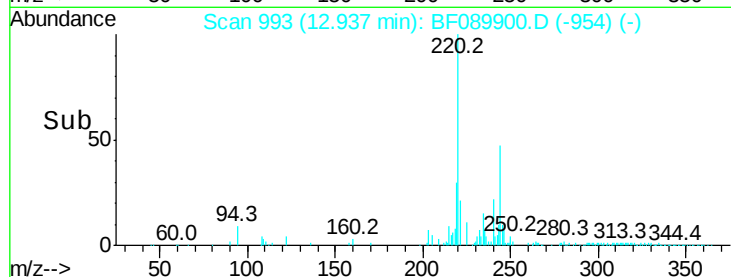
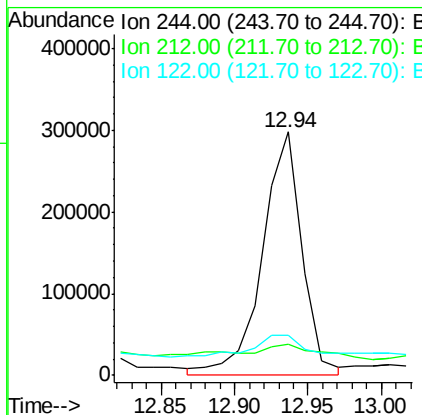
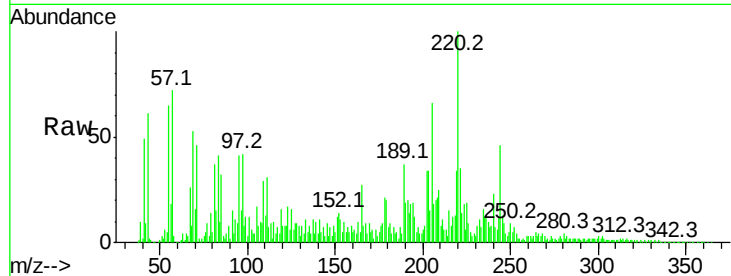
ClientSampleId :

SB-21A-(3-5)

Tot Ion:	244	Resp:	564529
Ion Ratio	Lower	Upper	
244	100		
212	12.9	6.3	9.5#
122	16.6	12.0	18.0

Manual Integrations
APPROVED

umangi
8/25/2016 6:50:23 PM



#86

Perylene-d12

Concen: 20.00 ng m

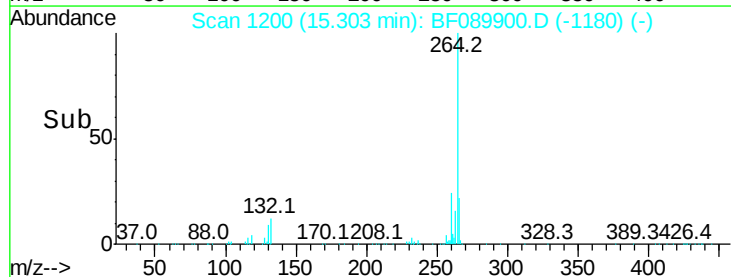
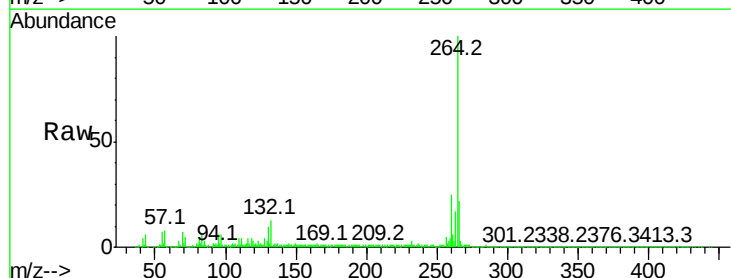
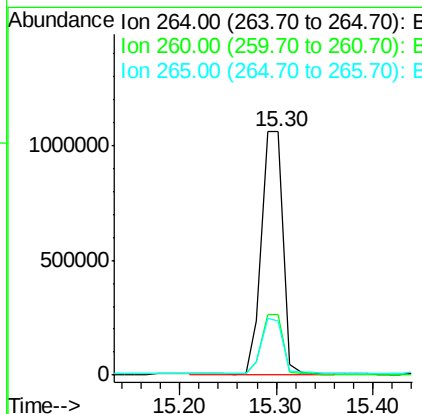
RT: 15.30 min Scan# 1200

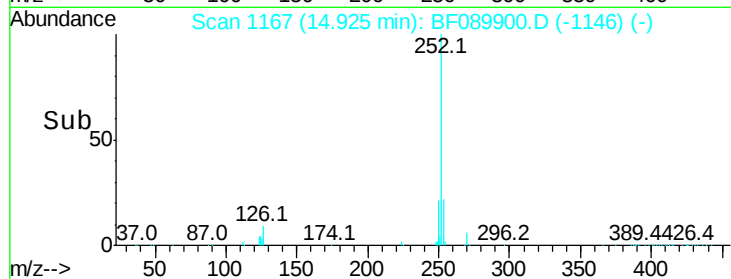
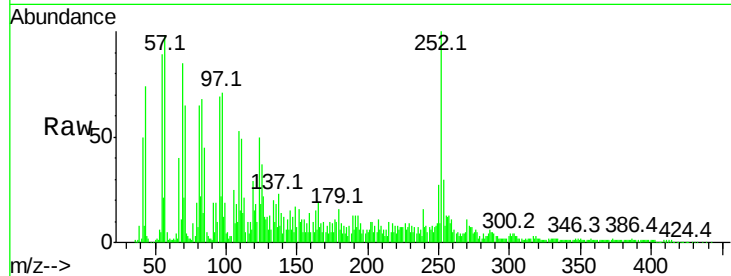
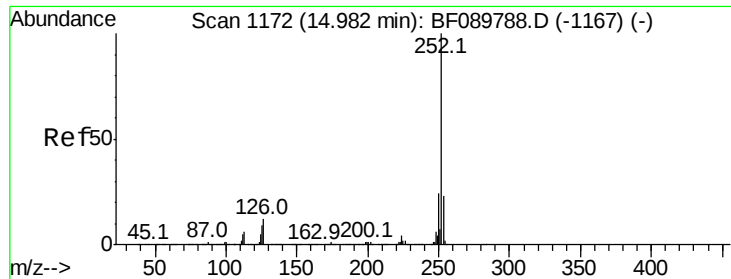
Delta R.T. -0.07 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Tgt Ion:	264	Resp:	1697319
Ion Ratio	Lower	Upper	
264	100		
260	24.7	20.2	30.2
265	22.3	17.4	26.2





#87

Benzo(b)fluoranthene

Concen: 2.13 ng m

RT: 14.93 min Scan# 1167

Delta R.T. -0.06 min

Lab File: BF089900.D

Acq: 25 Aug 2016 4:12

Instrument :

BNA_F

ClientSampleId :

SB-21A-(3-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	30.1	17.8	26.8#
125	37.0	11.4	17.2#

Manual Integrations
APPROVED

umangi
8/25/2016 6:50:23 PM

