

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
 Data File : BF095493.D
 Acq On : 27 May 2017 9:47
 Operator : SJ/MA
 Sample : I3240-01DL 10X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)DL

Manual Integrations
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 5/30/2017 1:37:28 PM

Quant Time: May 30 12:48:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.75	152	86800	20.00	ng	0.00
21) Naphthalene-d8	9.77	136	334304	20.00	ng	0.00
38) Acenaphthene-d10	12.60	164	139055	20.00	ng	0.00
63) Phenanthrene-d10	15.00	188	199155	20.00	ng	0.00
75) Chrysene-d12	18.68	240	182241	20.00	ng	0.00
86) Perylene-d12	20.35	264	125308	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.85	112	50099m	9.62	ng	0.14
7) Phenol-d6	7.40	99	65949m	10.56	ng	0.10
23) Nitrobenzene-d5	8.72	82	23698	4.47	ng	0.07
41) 2,4,6-Tribromophenol	13.94	330	8303	7.29	ng	0.04
44) 2-Fluorobiphenyl	11.55	172	83141	8.61	ng	0.01
78) Terphenyl-d14	17.32	244	50034	6.05	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	9.80	128	370788	22.07	ng	97
37) 2-Methylnaphthalene	10.94	142	91699	8.32	ng	98
45) 1,1'-Biphenyl	11.71	154	26902	2.30	ng	99
51) Acenaphthene	12.65	154	56458	6.38	ng	98
54) Dibenzofuran	12.95	168	103116	8.43	ng	99
57) Fluorene	13.51	166	34371	3.23	ng	94
70) Phenanthrene	15.04	178	508916	44.47	ng	98
72) Carbazole	15.44	167	23742	2.23	ng	97
74) Fluoranthene	16.78	202	377186	32.13	ng	99
77) Pyrene	17.08	202	328462	24.10	ng	97
80) Benzo(a)anthracene	18.67	228	85124	8.03	ng	96
82) Chrysene	18.71	228	142032	13.85	ng	98
85) Indeno(1,2,3-cd)pyrene	21.71	276	33135	3.98	ng	96
87) Benzo(b)fluoranthene	19.95	252	93513m	12.08	ng	
88) Benzo(k)fluoranthene	19.98	252	39084m	5.23	ng	
89) Benzo(a)pyrene	20.30	252	67917	9.51	ng	98
91) Benzo(a,h,i)perylene	22.10	276	34049	5.88	ng	# 94

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

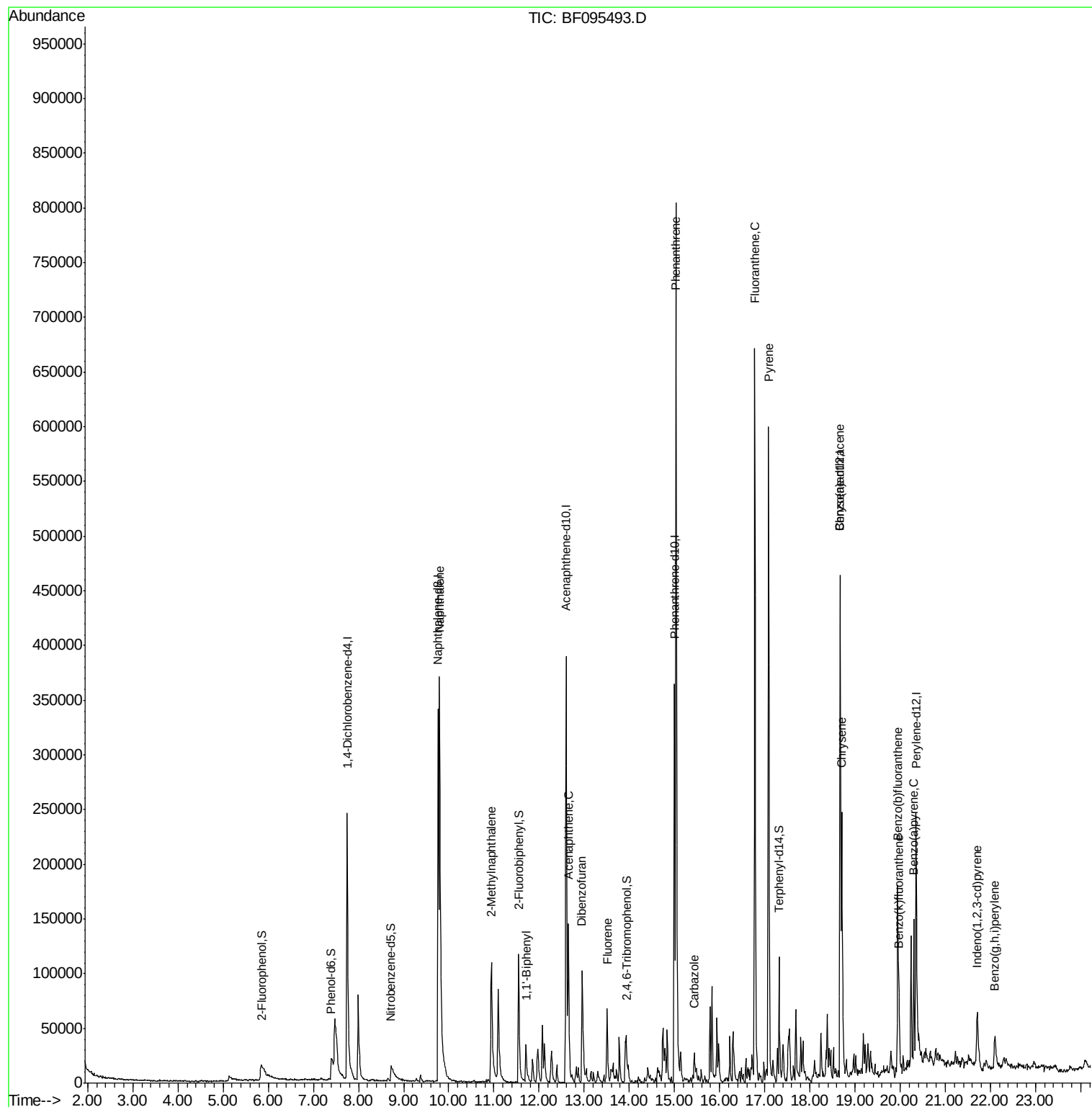
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095493.D
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ALS Vial : 38 Sample Multiplier: 1

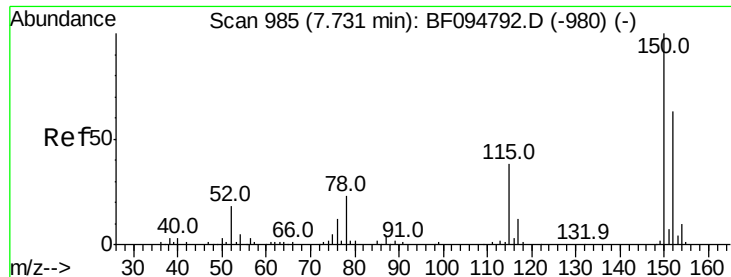
Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)DL

Manual Integrations
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
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#1

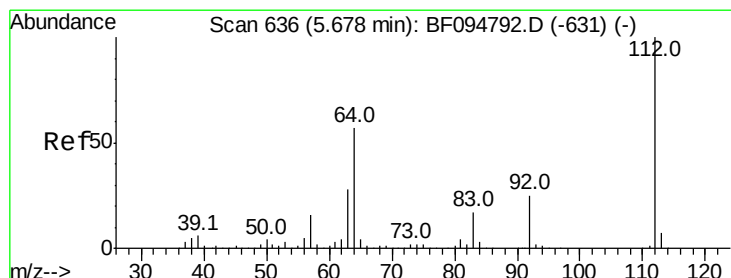
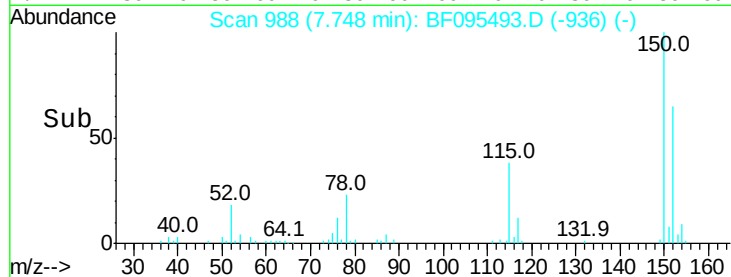
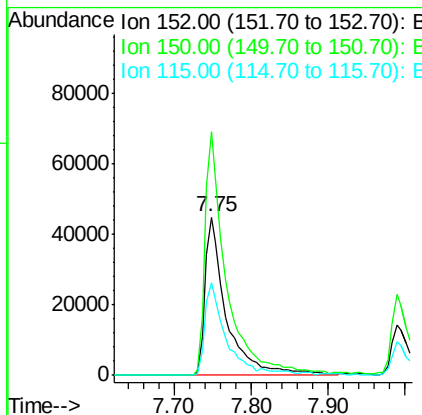
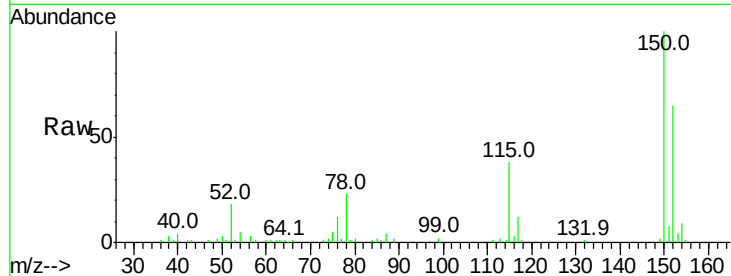
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.75 min Scan# 988
 Delta R.T. 0.01 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	126.2	189.2
115	58.8	52.2	78.2

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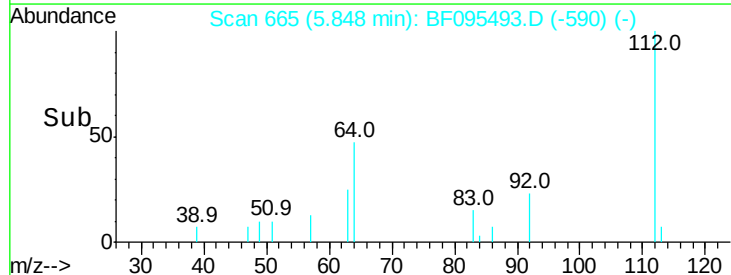
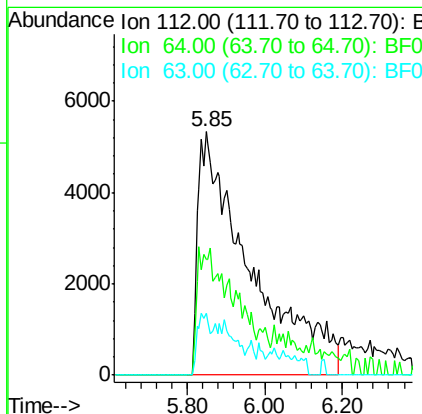
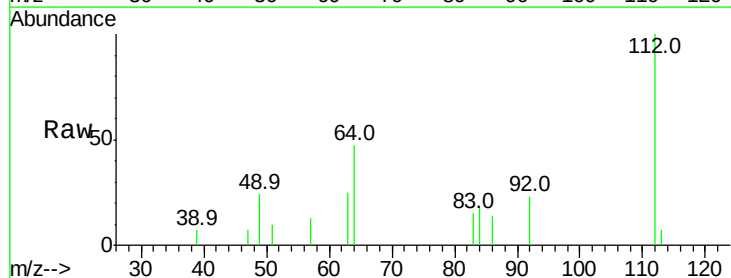
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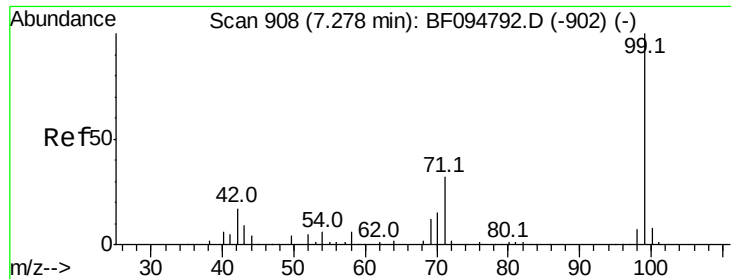


#5

2-Fluorophenol
 Concen: 9.62 ng m
 RT: 5.85 min Scan# 665
 Delta R.T. 0.14 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	47.5	46.0	69.0
63	25.3	23.4	35.0





#7

Phenol-d6

Concen: 10.56 ng/mL

RT: 7.40 min Scan# 928

Delta R.T. 0.10 min

Lab File: BF095493.D

Acq: 27 May 2017 9:47

Instrument :

BNA_F

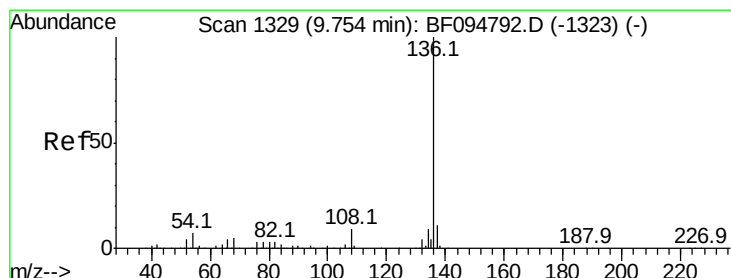
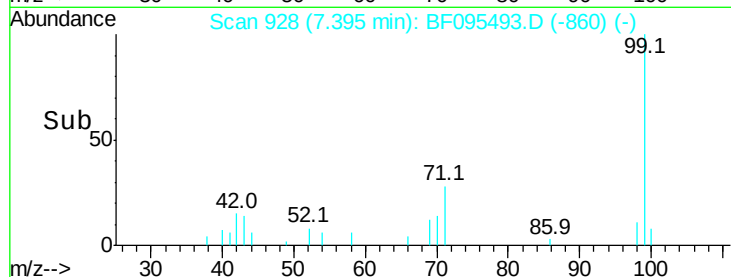
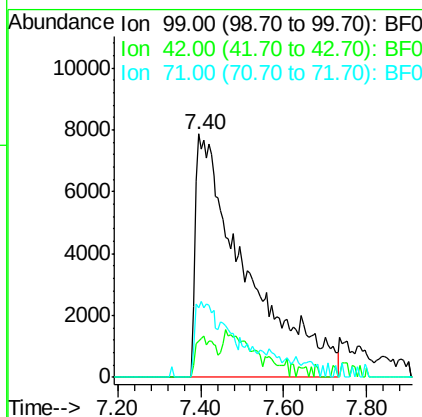
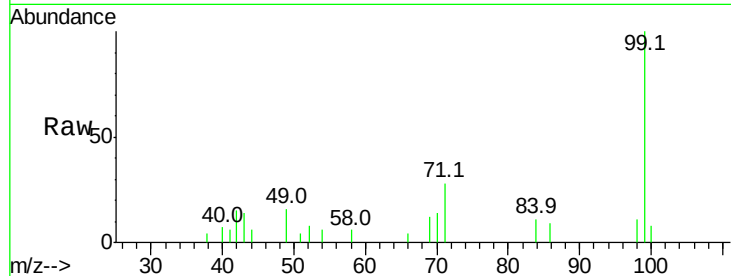
ClientSampleID :

EP2-WC8(0-8)DL

Tot Ion:	99	Resp:	65949
Ion Ratio	Lower	Upper	
99	100		
42	14.8	13.5	20.3
71	28.4	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng/mL

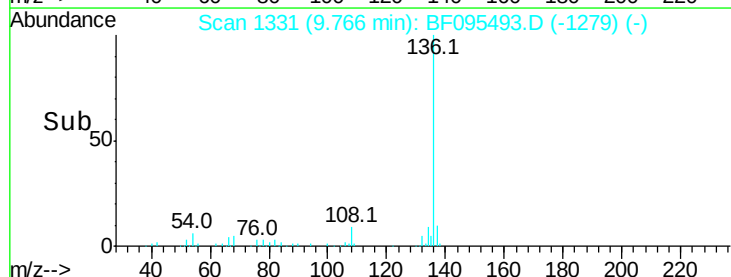
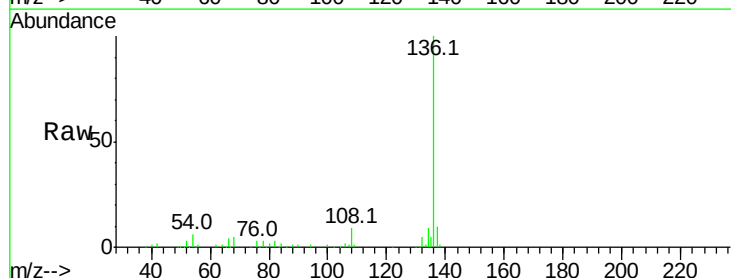
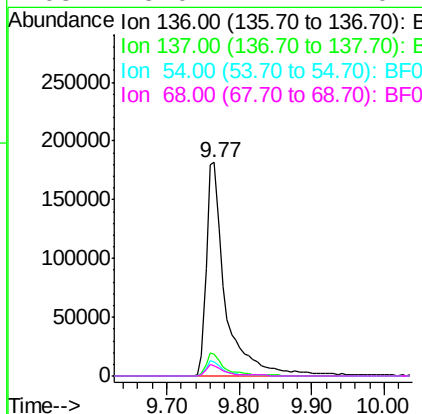
RT: 9.77 min Scan# 1331

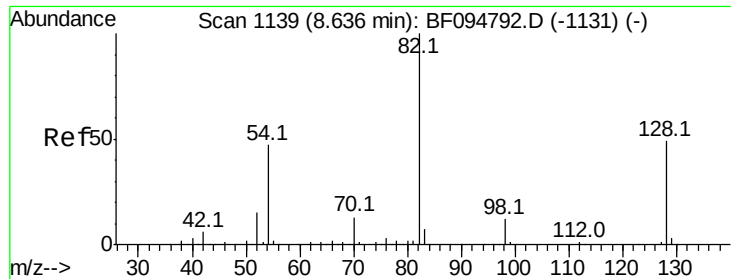
Delta R.T. 0.01 min

Lab File: BF095493.D

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Tgt Ion:	136	Resp:	334304
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.5	12.7
54	6.4	4.9	7.3
68	5.0	4.1	6.1





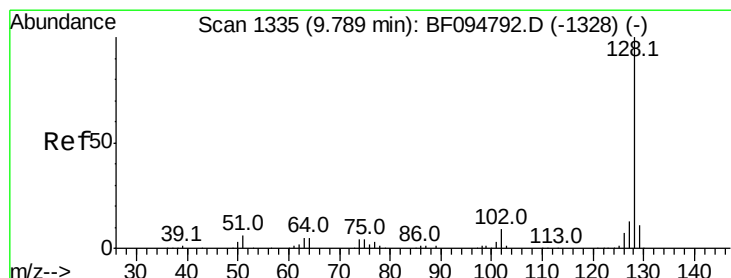
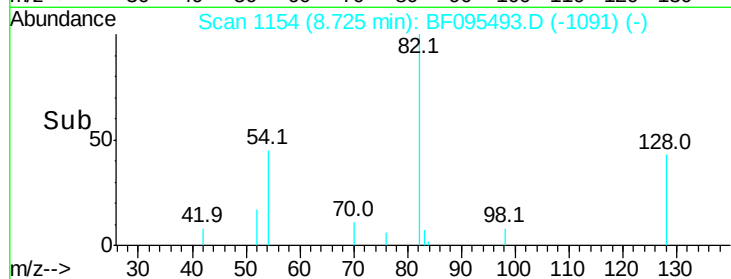
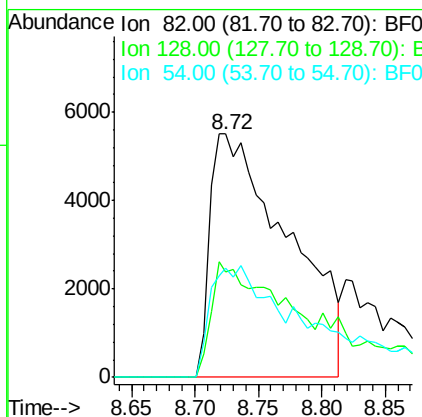
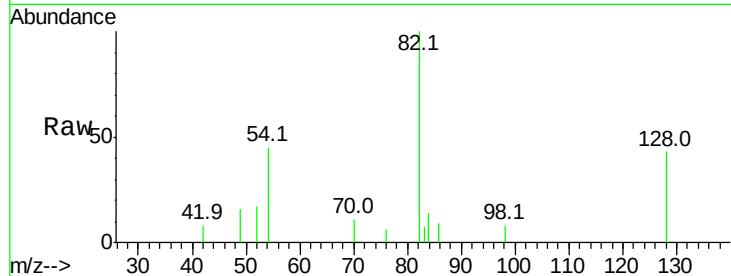
#23
 Nitrobenzene-d5
 Concen: 4.47 ng
 RT: 8.72 min Scan# 1154
 Delta R.T. 0.07 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Instrument :
 BNA_F
 ClientSampleID :
 EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.2	34.0	51.0
54	44.7	42.2	63.2

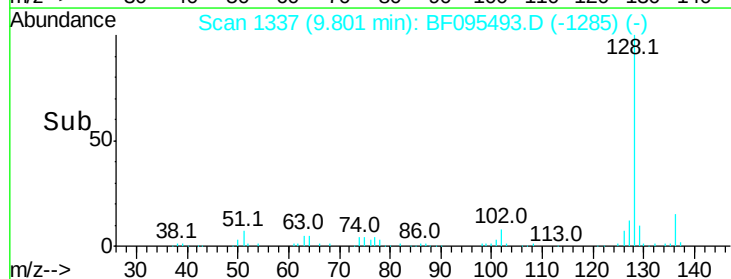
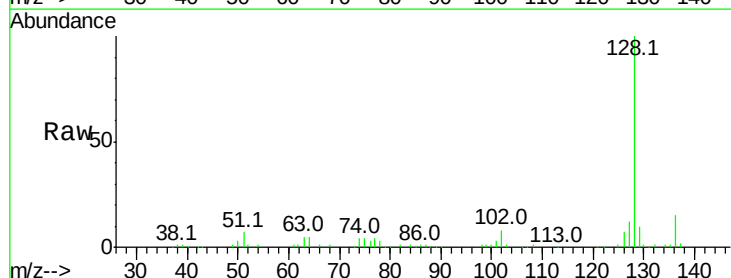
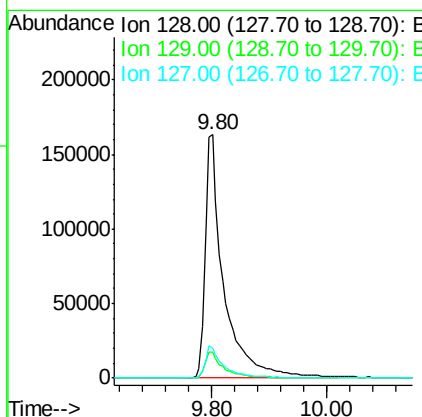
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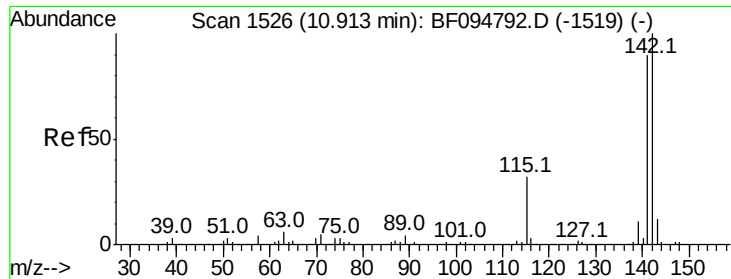
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#31
 Naphthalene
 Concen: 22.07 ng
 RT: 9.80 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.4	9.0	13.6
127	12.3	10.8	16.2





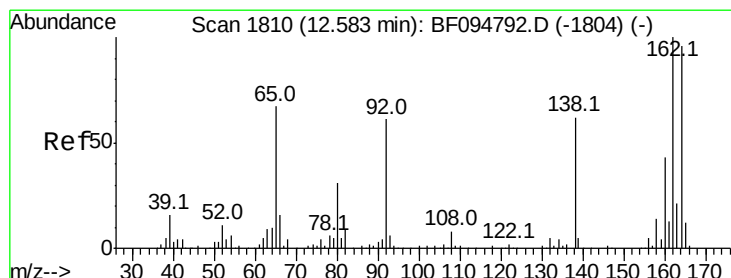
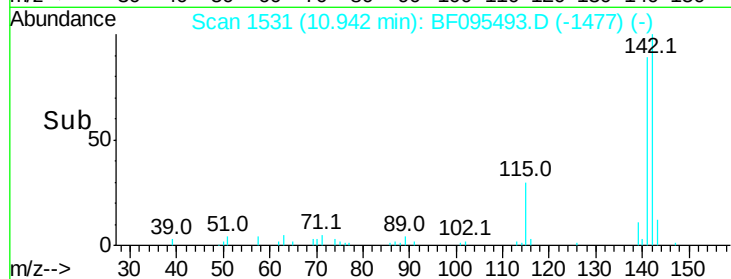
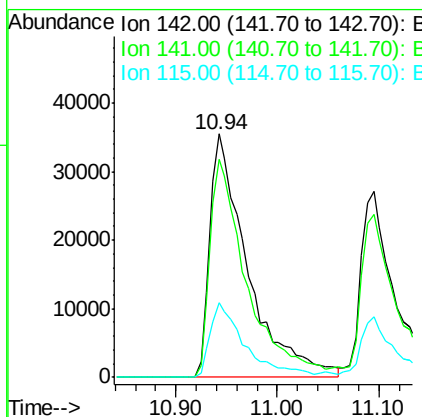
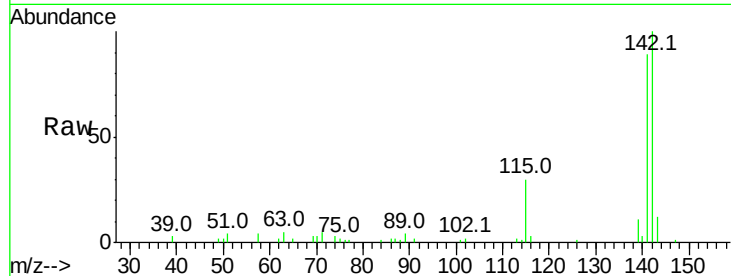
#37
 2-Methylnaphthalene
 Concen: 8.32 ng
 RT: 10.94 min Scan# 1531
 Delta R.T. 0.02 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.3	106.9
115	30.4	27.1	40.7

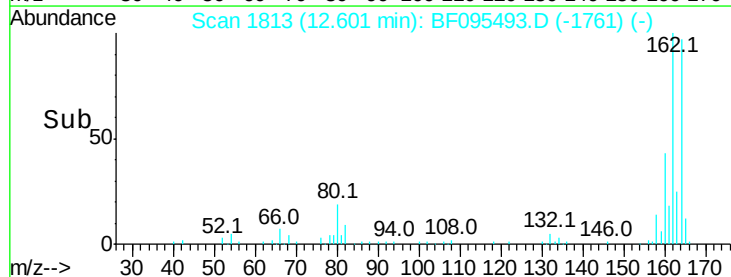
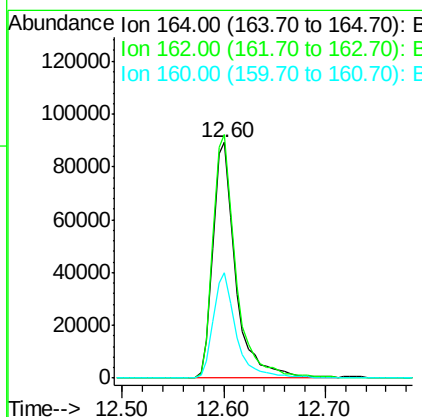
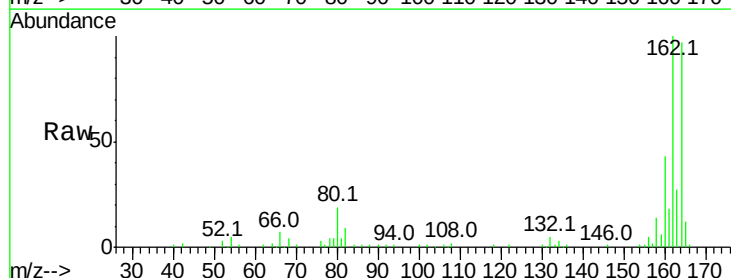
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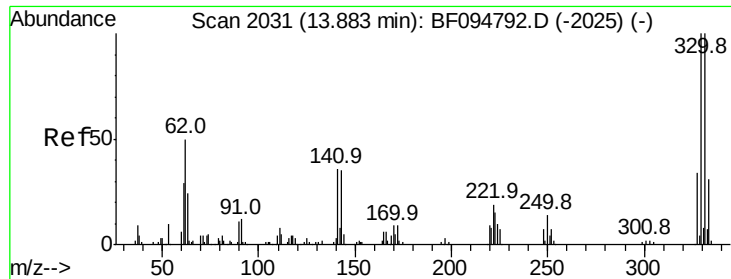
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.60 min Scan# 1813
 Delta R.T. 0.01 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	82.6	123.8
160	44.8	36.2	54.2





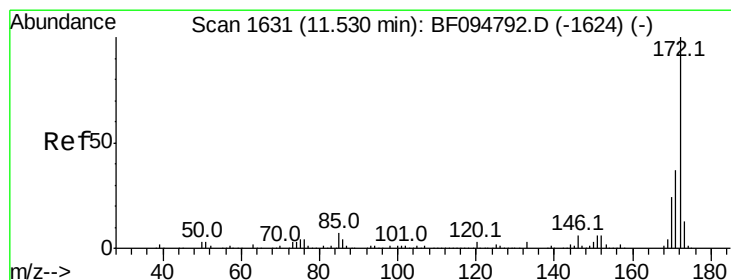
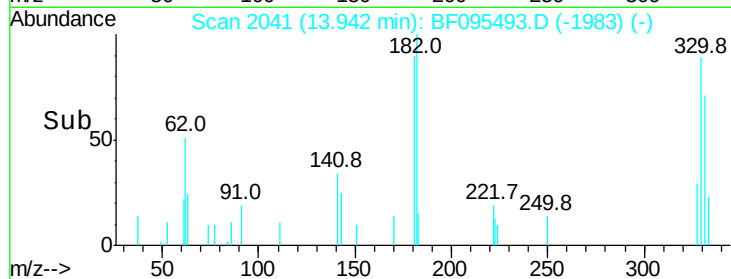
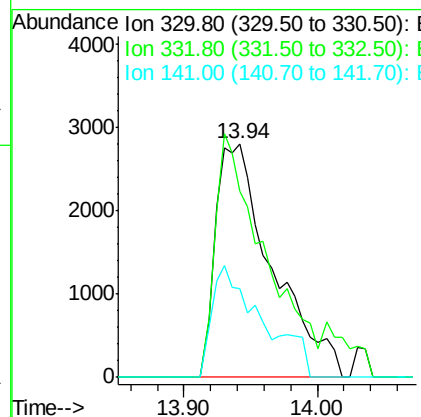
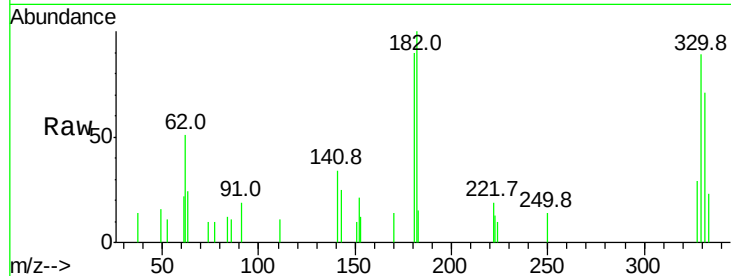
#41
 2,4,6-Tribromophenol
 Concen: 7.29 ng
 RT: 13.94 min Scan# 2041
 Delta R.T. 0.04 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	91.9	76.6	115.0
141	36.0	31.4	47.2

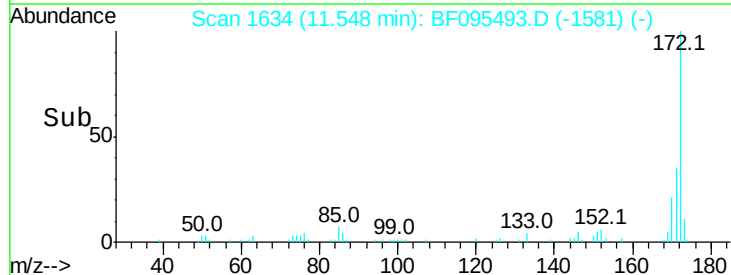
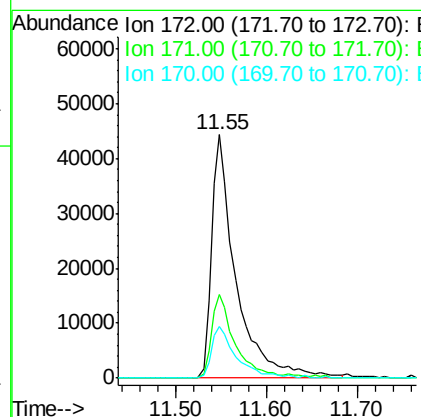
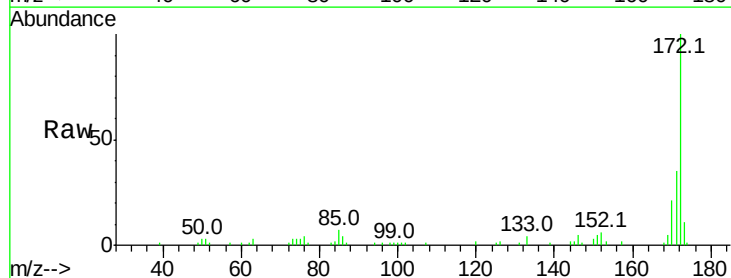
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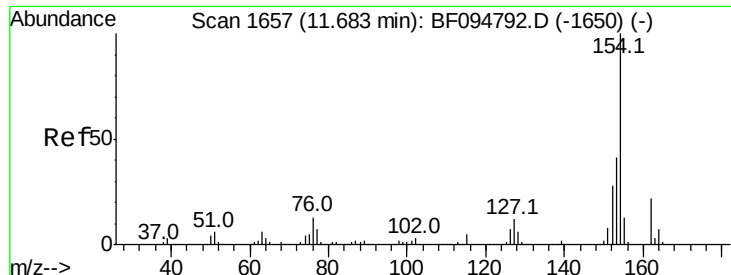
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#44
 2-Fluorobiphenyl
 Concen: 8.61 ng
 RT: 11.55 min Scan# 1634
 Delta R.T. 0.01 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.6	44.4
170	21.3	19.8	29.8





#45

1,1'-Biphenyl

Concen: 2.30 ng

RT: 11.71 min Scan# 1662

Delta R.T. 0.02 min

Lab File: BF095493.D

Acq: 27 May 2017 9:47

Instrument :

BNA_F

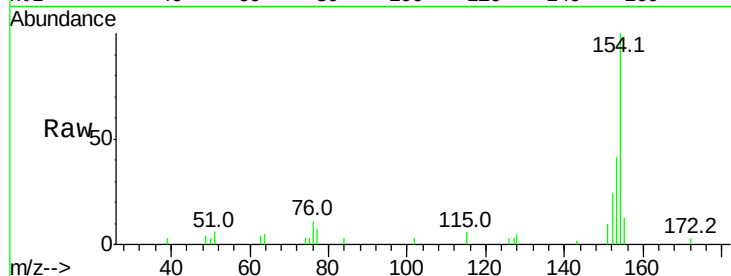
ClientSampleId :

EP2-WC8(0-8)DL

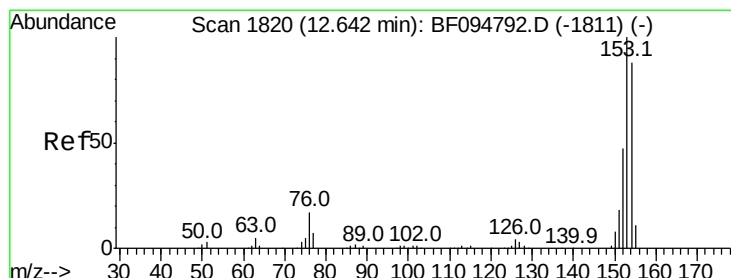
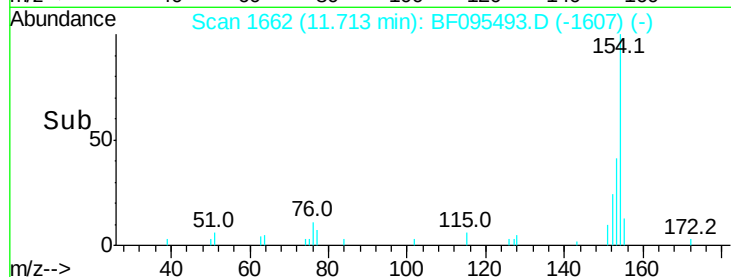
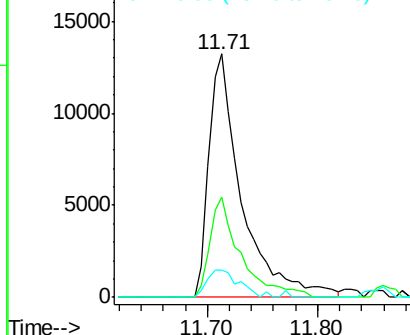
Tot Ion:	154	Resp:	26902
Ion Ratio	Lower	Upper	
154	100		
153	41.2	21.2	61.2
76	11.4	0.0	29.9

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#51

Acenaphthene

Concen: 6.38 ng

RT: 12.65 min Scan# 1822

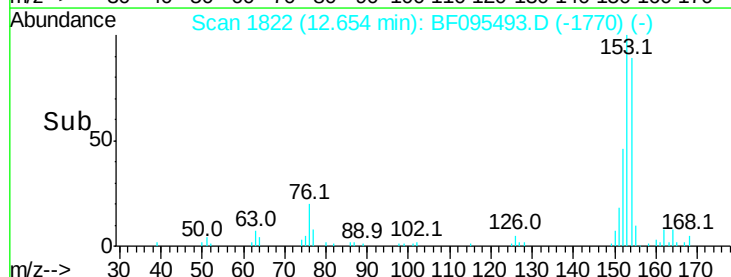
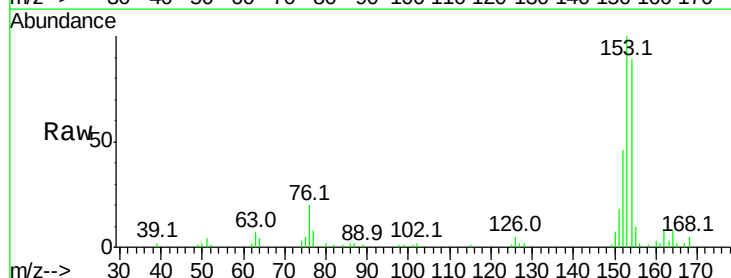
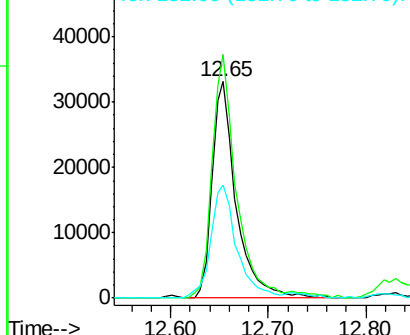
Delta R.T. 0.01 min

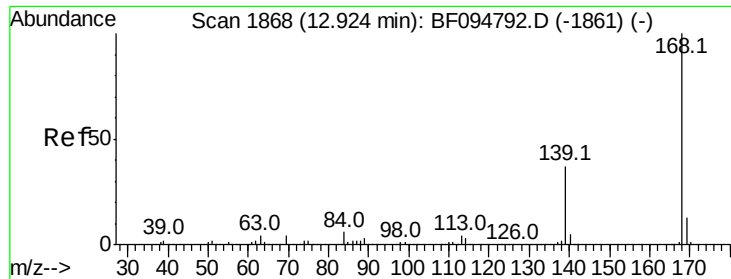
Lab File: BF095493.D

Acq: 27 May 2017 9:47

Tgt Ion:	154	Resp:	56458
Ion Ratio	Lower	Upper	
154	100		
153	112.4	90.5	135.7
152	52.0	43.6	65.4

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





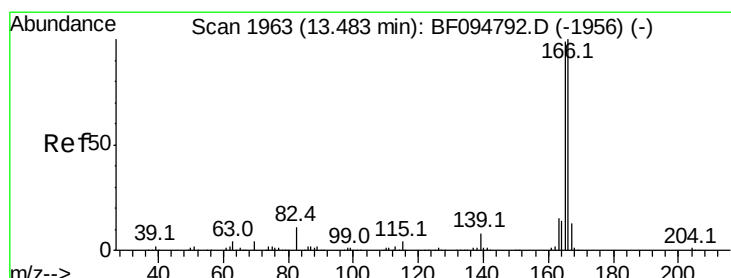
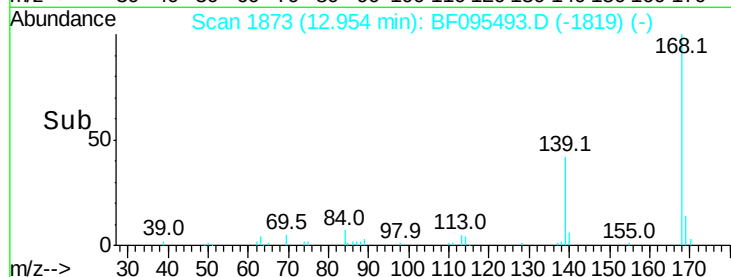
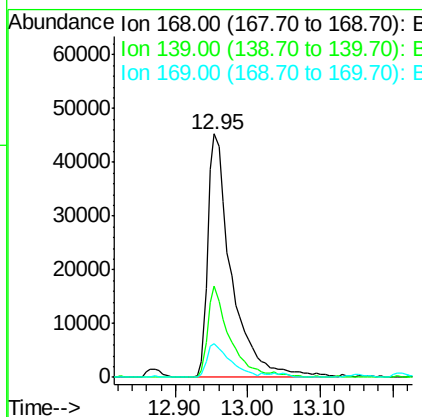
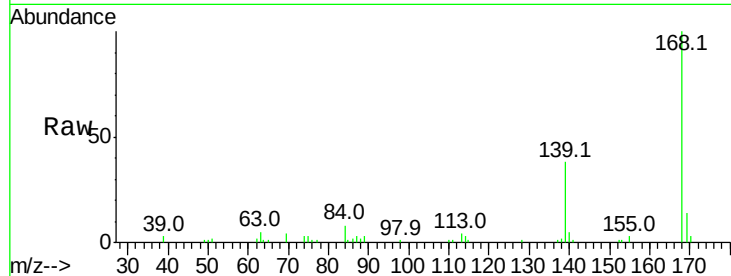
#54
Dibenzenofuran
Concen: 8.43 ng
RT: 12.95 min Scan# 1873
Delta R.T. 0.02 min
Lab File: BF095493.D
Acq: 27 May 2017 9:47

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.5	30.6	45.8
169	13.6	10.8	16.2

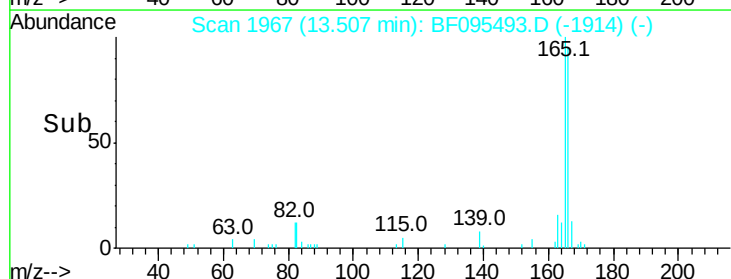
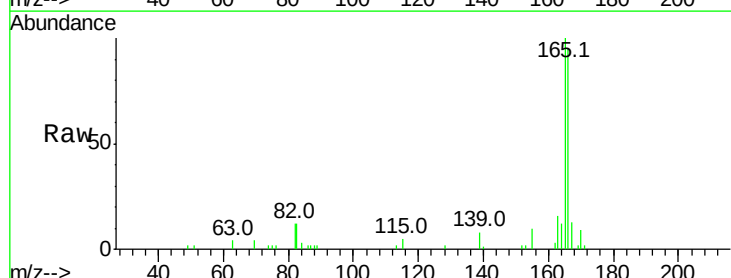
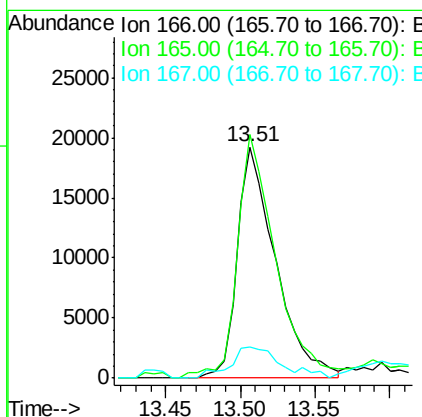
Manual Integrations
APPROVED

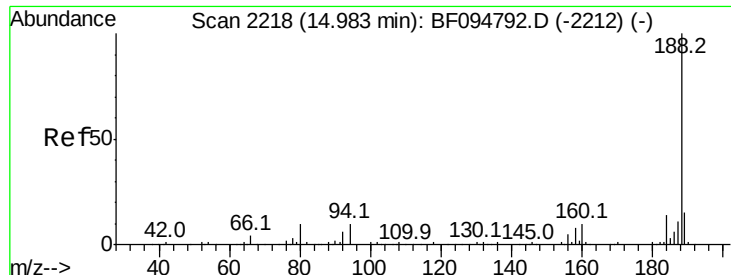
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#57
Fluorene
Concen: 3.23 ng
RT: 13.51 min Scan# 1967
Delta R.T. 0.01 min
Lab File: BF095493.D
Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Lower	Upper
166	100		
165	105.3	78.8	118.2
167	13.3	10.6	16.0





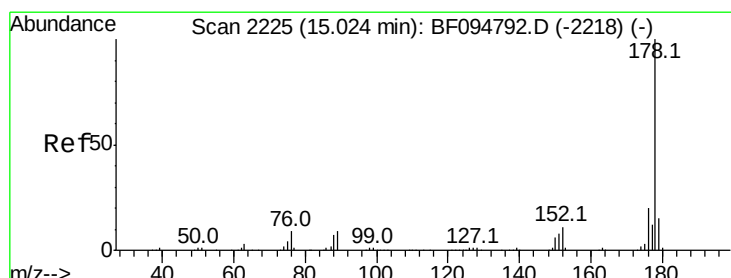
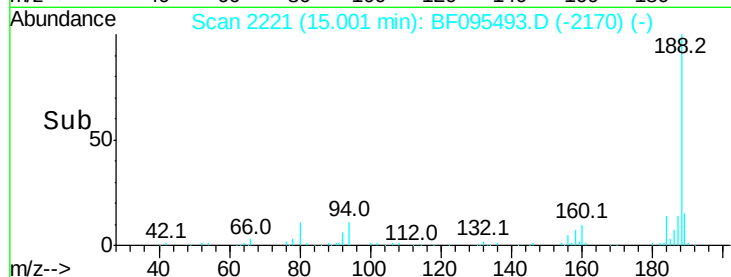
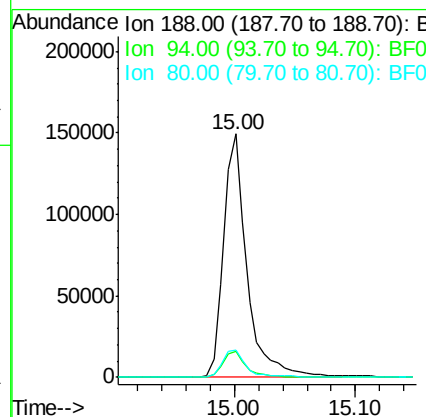
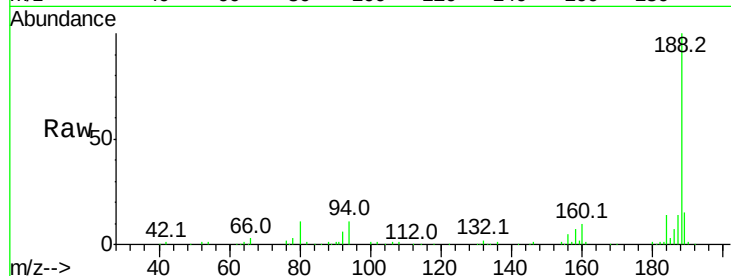
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.00 min Scan# 2221
 Delta R.T. -0.00 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.7	9.4	14.2
80	11.1	10.2	15.2

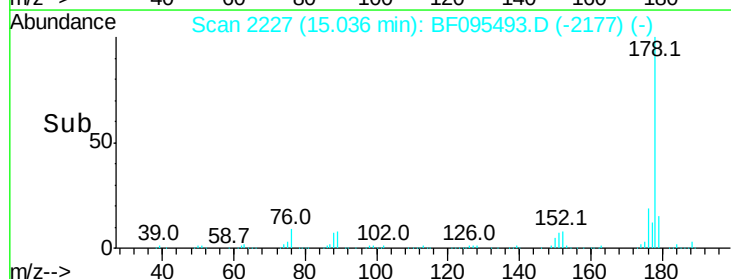
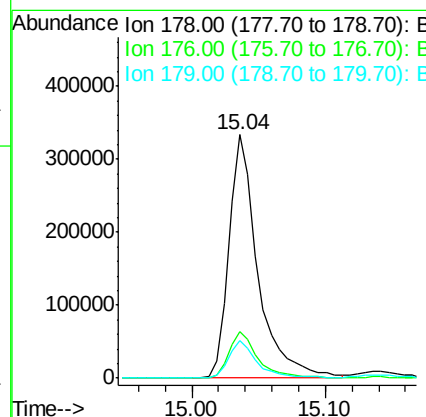
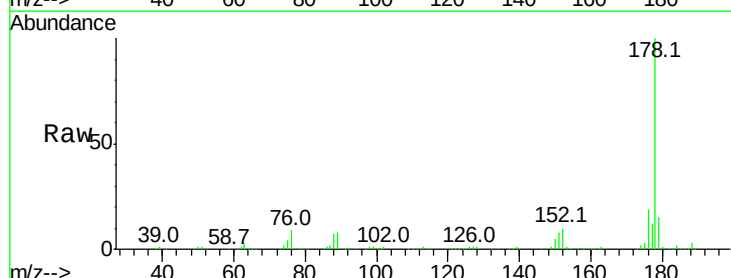
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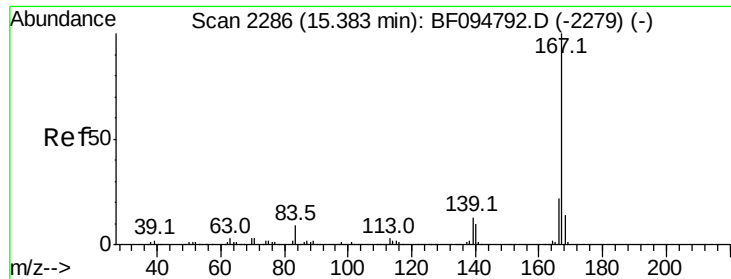
mohammad
 5/30/2017 1:37:28 PM



#70
 Phenanthrene
 Concen: 44.47 ng
 RT: 15.04 min Scan# 2227
 Delta R.T. -0.01 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.3	16.2	24.4
179	15.4	12.6	19.0





#72

Carbazole

Concen: 2.23 ng

RT: 15.44 min Scan# 2295

Delta R.T. 0.03 min

Lab File: BF095493.D

Acq: 27 May 2017 9:47

Instrument :

BNA_F

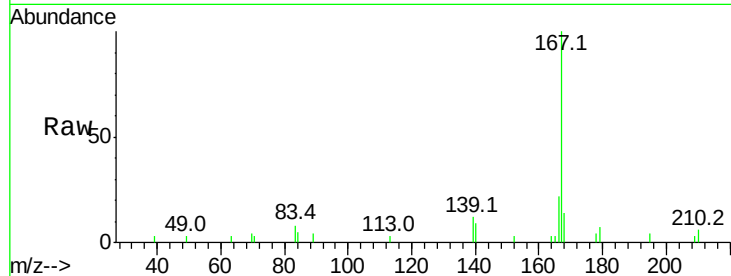
ClientSampleId :

EP2-WC8(0-8)DL

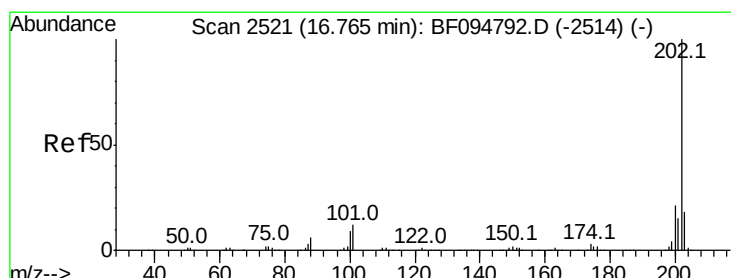
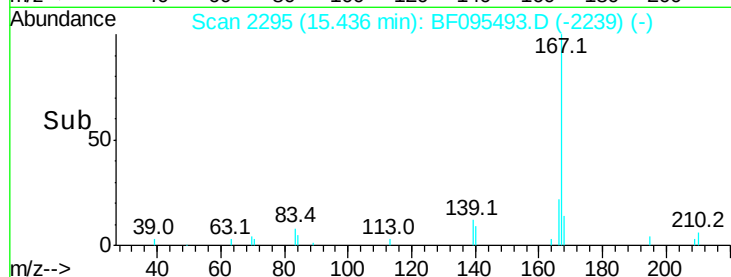
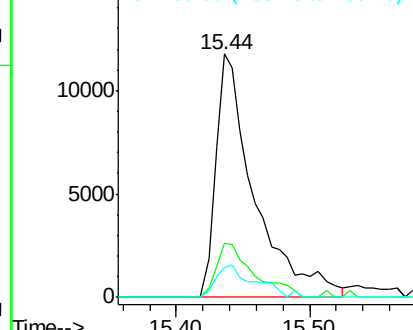
Tot Ion:	167	Resp:	23742
Ion Ratio	Lower	Upper	
167	100		
166	22.0	18.1	27.1
139	12.1	11.7	17.5

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 32.13 ng

RT: 16.78 min Scan# 2524

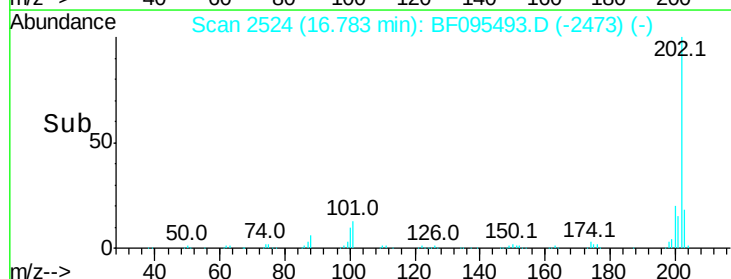
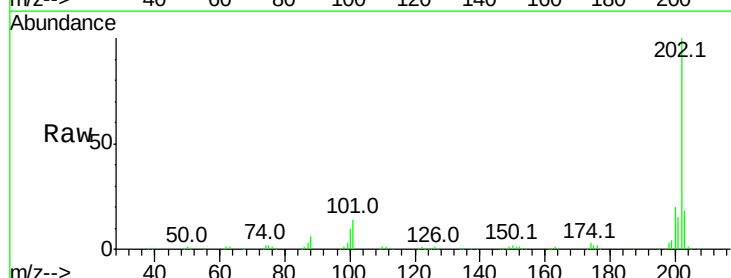
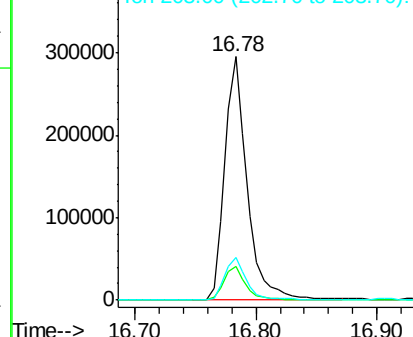
Delta R.T. -0.00 min

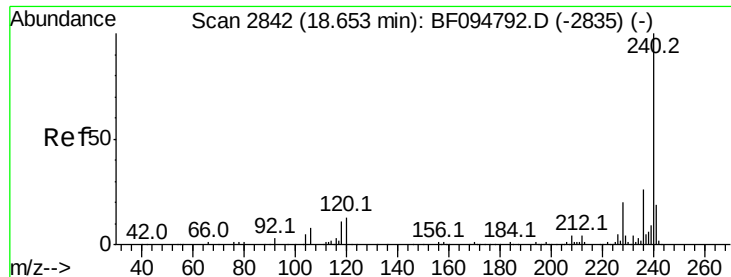
Lab File: BF095493.D

Acq: 27 May 2017 9:47

Tgt Ion:	202	Resp:	377186
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	33.2
203	17.8	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

RT: 18.68 min Scan# 2846

Delta R.T. -0.00 min

Lab File: BF095493.D

Acq: 27 May 2017 9:47

Instrument :

BNA_F

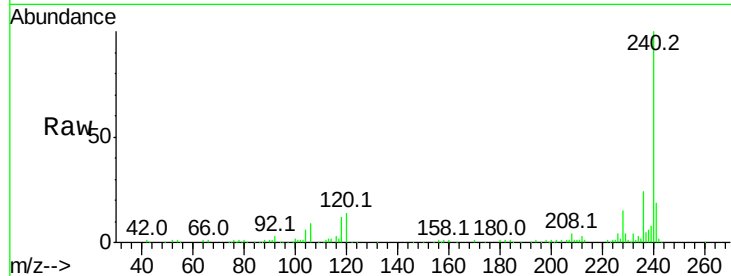
ClientSampleID :

EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.8	5.8	8.8#
236	23.8	20.5	30.7

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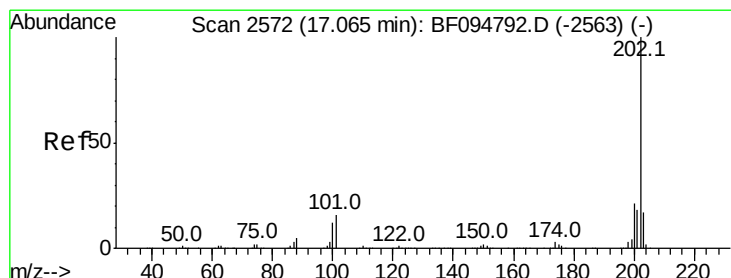
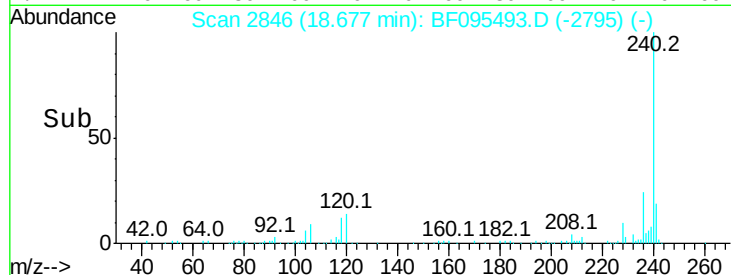
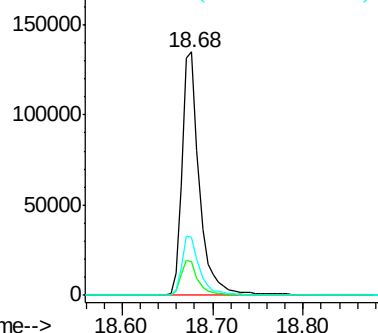
mohammad
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 24.10 ng

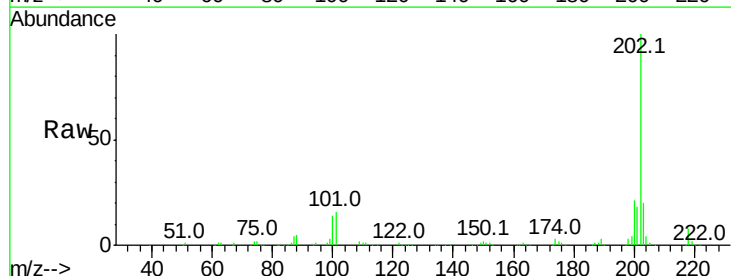
RT: 17.08 min Scan# 2575

Delta R.T. -0.01 min

Lab File: BF095493.D

Acq: 27 May 2017 9:47

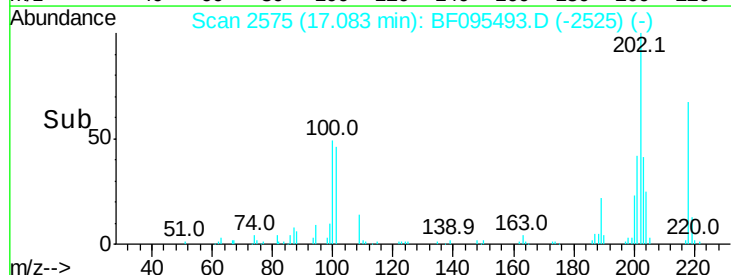
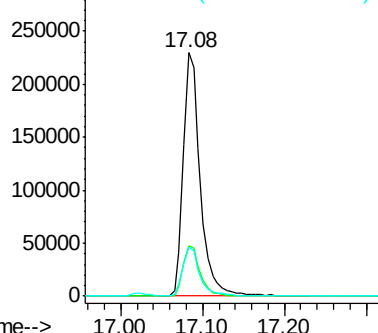
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.6	26.4
203	20.0	14.4	21.6

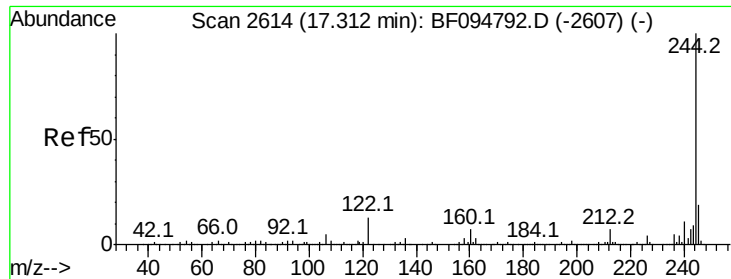


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





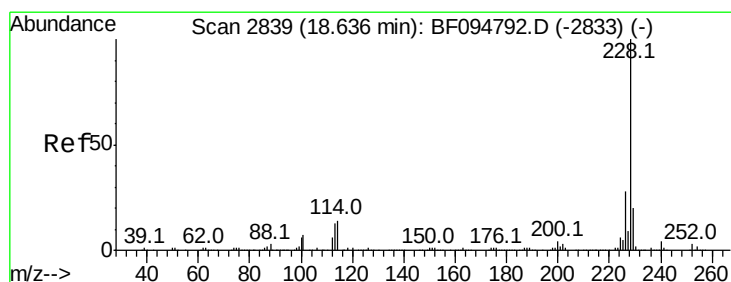
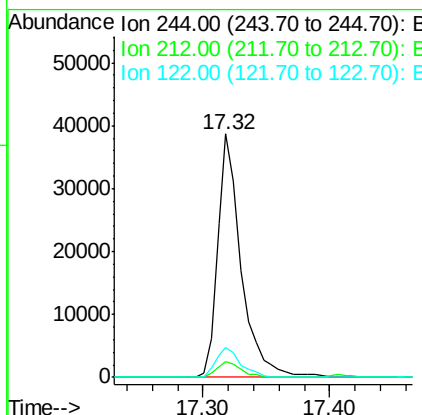
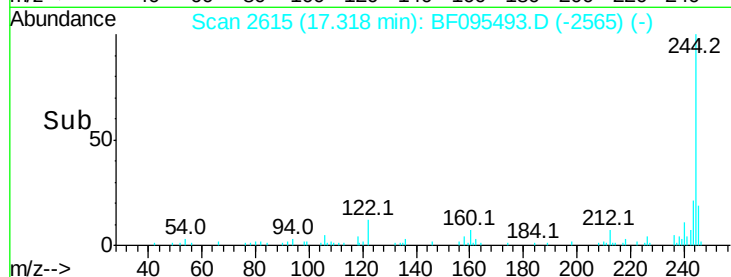
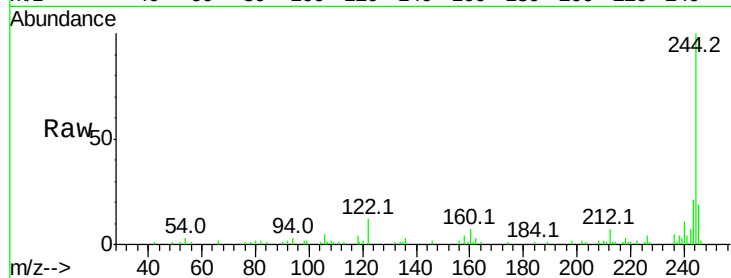
#78
 Terphenyl-d14
 Concen: 6.05 ng
 RT: 17.32 min Scan# 2615
 Delta R.T. -0.01 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.0	9.0
122	12.3	10.3	15.5

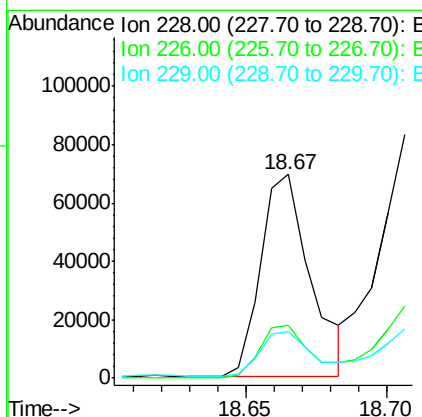
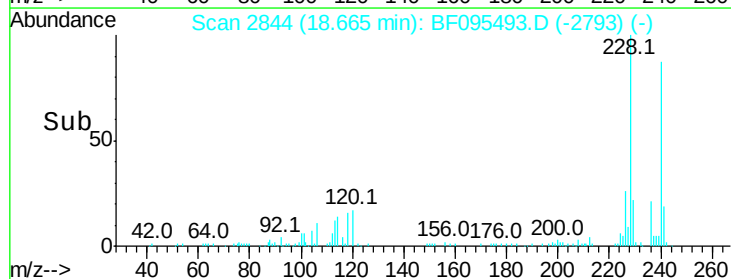
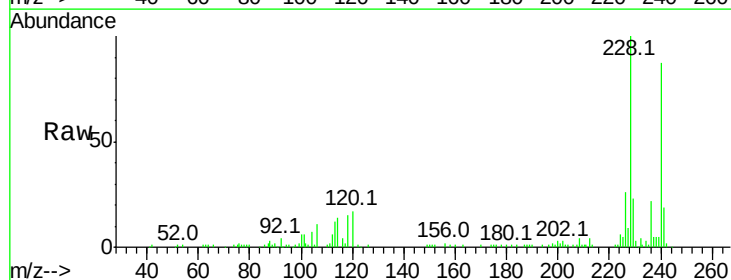
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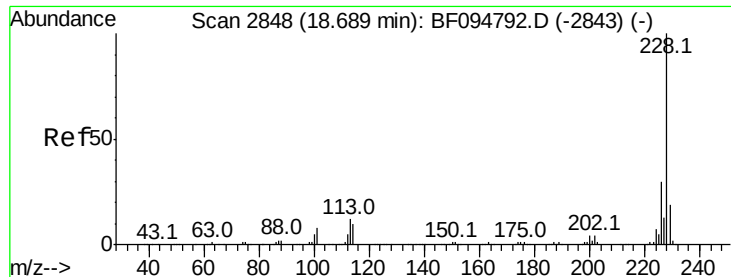
mohammad
 5/30/2017 1:37:28 PM



#80
 Benzo(a)anthracene
 Concen: 8.03 ng
 RT: 18.67 min Scan# 2844
 Delta R.T. -0.00 min
 Lab File: BF095493.D
 Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.1	22.6	33.8
229	22.7	16.3	24.5





#82

Chrysene

Concen: 13.85 ng

RT: 18.71 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BF095493.D

Acq: 27 May 2017 9:47

Instrument :

BNA_F

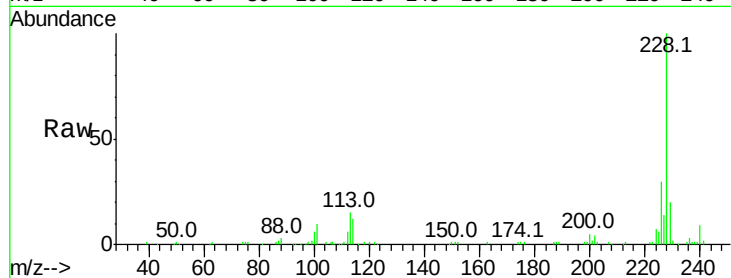
ClientSampleId :

EP2-WC8(0-8)DL

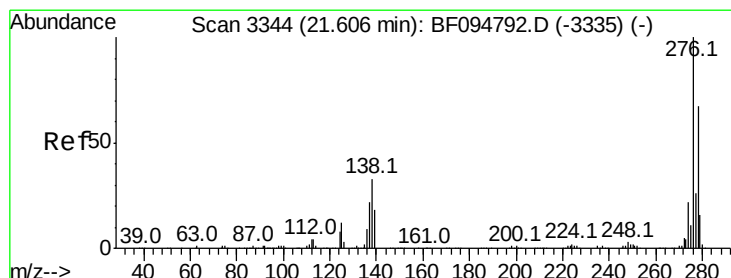
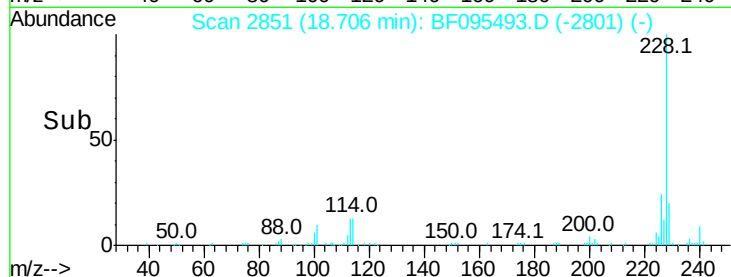
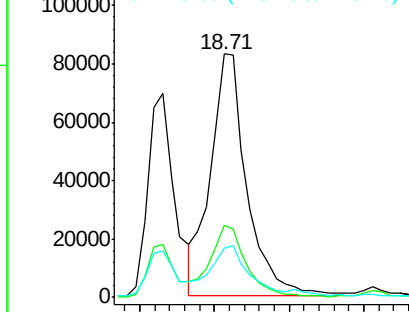
Tot Ion:	228	Resp:	142032
Ion Ratio	Lower	Upper	
228	100		
226	29.7	24.9	37.3
229	19.9	15.8	23.6

Manual Integrations
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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: 3.98 ng

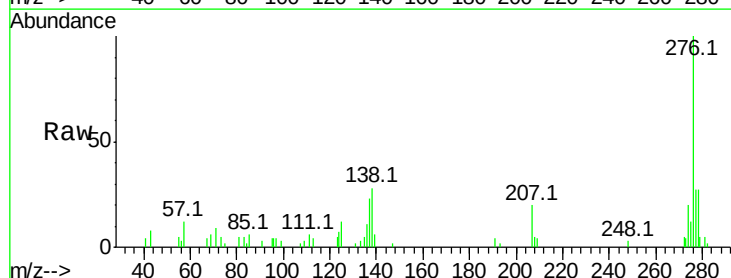
RT: 21.71 min Scan# 3361

Delta R.T. 0.02 min

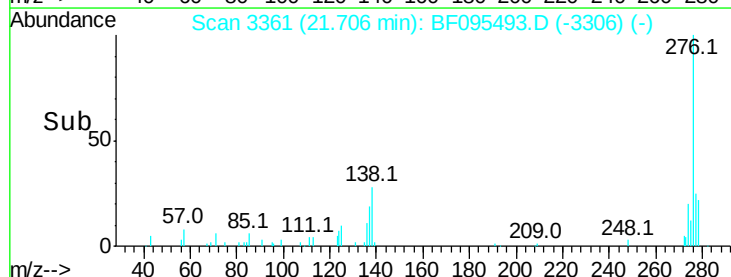
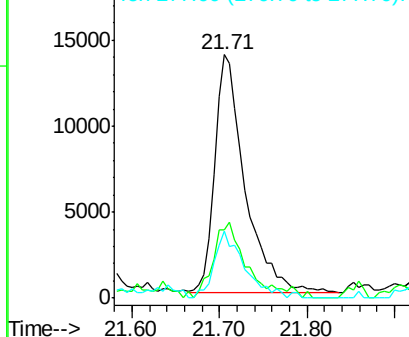
Lab File: BF095493.D

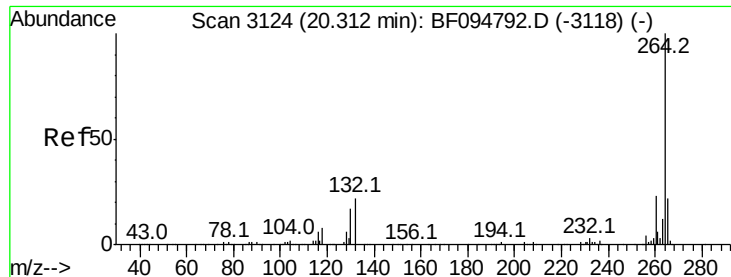
Acq: 27 May 2017 9:47

Tgt Ion:	276	Resp:	33135
Ion Ratio	Lower	Upper	
276	100		
138	36.0	27.8	41.6
277	27.9	20.2	30.4



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





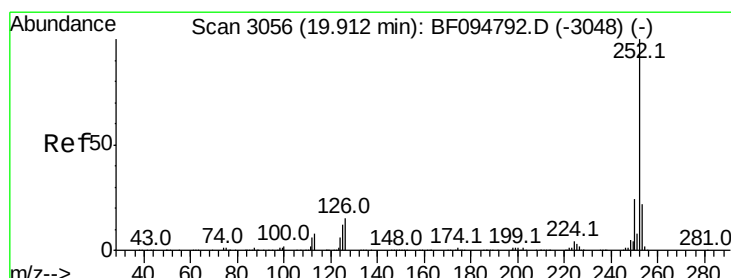
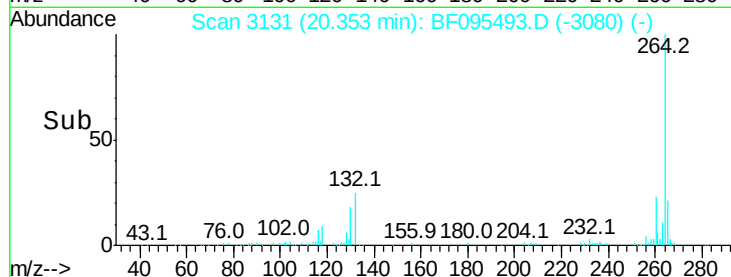
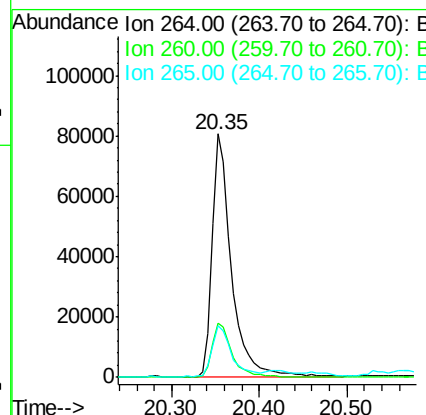
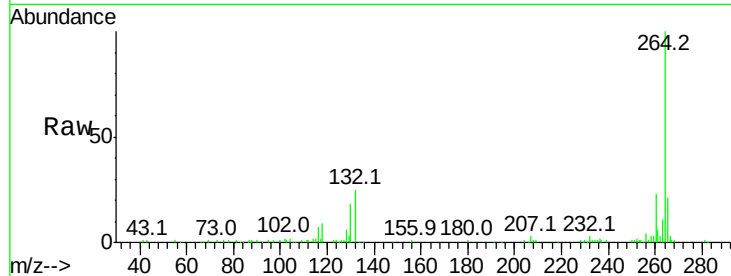
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.35 min Scan# 3131
Delta R.T. -0.00 min
Lab File: BF095493.D
Acq: 27 May 2017 9:47

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.5	29.3
265	21.1	17.2	25.8

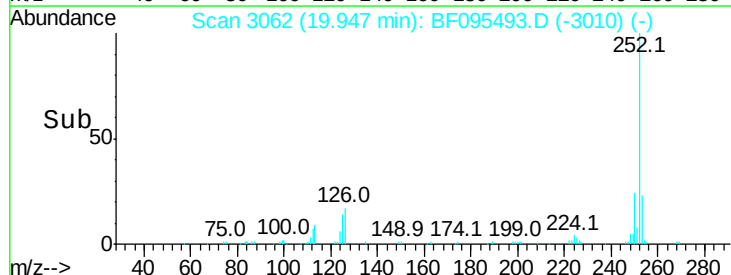
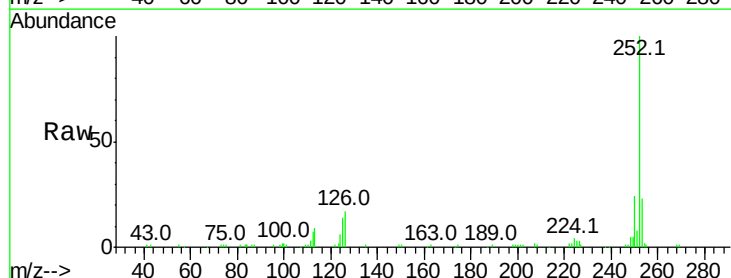
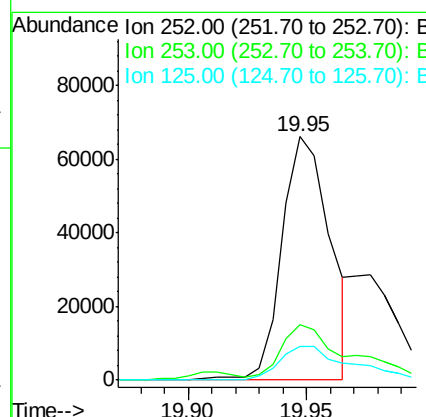
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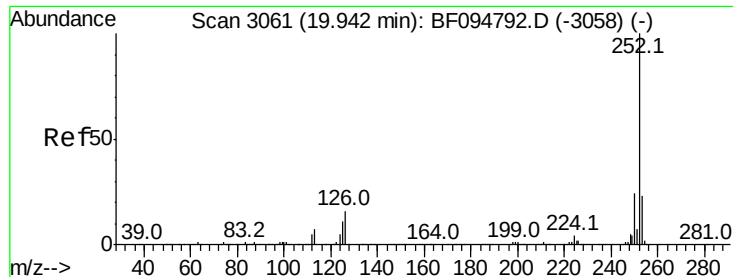
mohammad
5/30/2017 1:37:28 PM



#87
Benzo(b)fluoranthene
Concen: 12.08 ng m
RT: 19.95 min Scan# 3062
Delta R.T. 0.01 min
Lab File: BF095493.D
Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	13.8	9.8	14.8





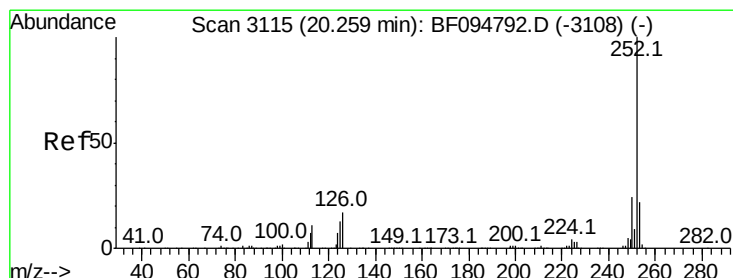
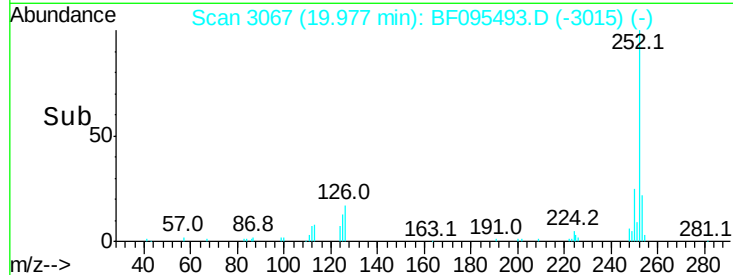
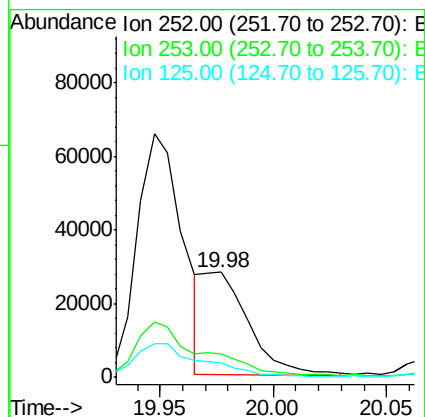
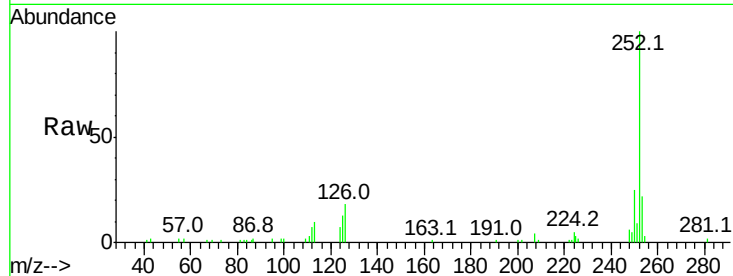
#88
Benzo(k)fluoranthene
Concen: 5.23 ng m
RT: 19.98 min Scan# 3067
Delta R.T. 0.01 min
Lab File: BF095493.D
Acq: 27 May 2017 9:47

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.4	27.6
125	13.5	13.1	19.7

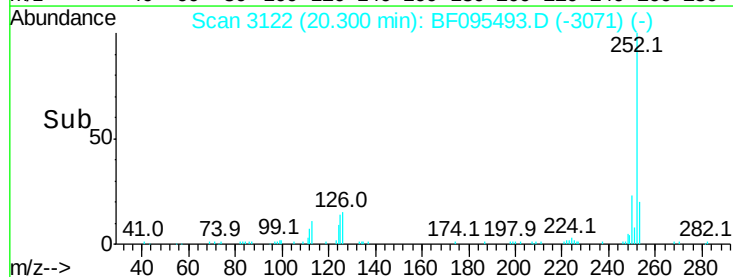
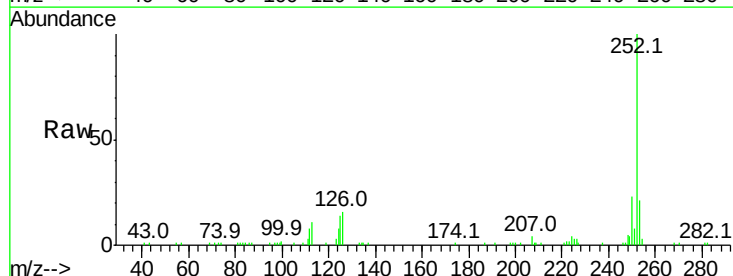
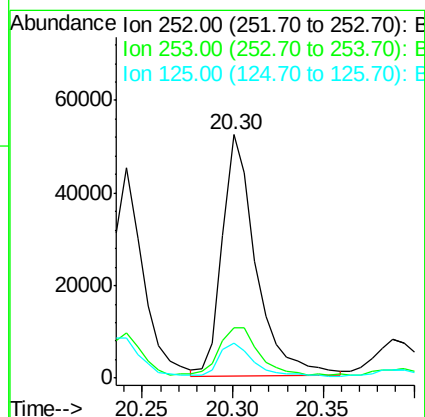
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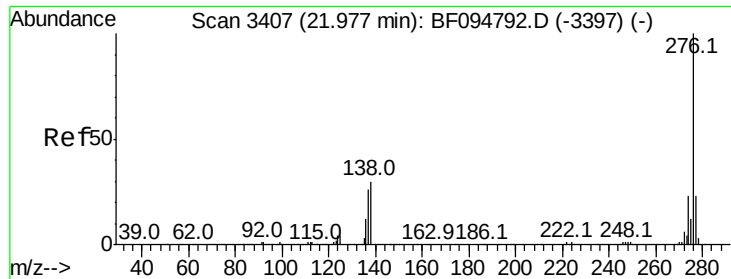
mohammad
5/30/2017 1:37:28 PM



#89
Benzo(a)pyrene
Concen: 9.51 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.00 min
Lab File: BF095493.D
Acq: 27 May 2017 9:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.7	17.5	26.3
125	14.2	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 5.88 ng

RT: 22.10 min Scan# 3428

Delta R.T. 0.03 min

Lab File: BF095493.D

Acq: 27 May 2017 9:47

Instrument :

BNA_F

ClientSampleId :

EP2-WC8(0-8)DL

Tot Ion:	276	Resp:	34049
Ion Ratio	Lower	Upper	
276	100		
277	28.3	18.6	28.0#
138	30.4	25.4	38.0

Manual Integrations
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5/30/2017 1:37:28 PM

