

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053017\
 Data File : BF095540.D
 Acq On : 30 May 2017 17:44
 Operator : SJ/MA
 Sample : I3281-10
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2

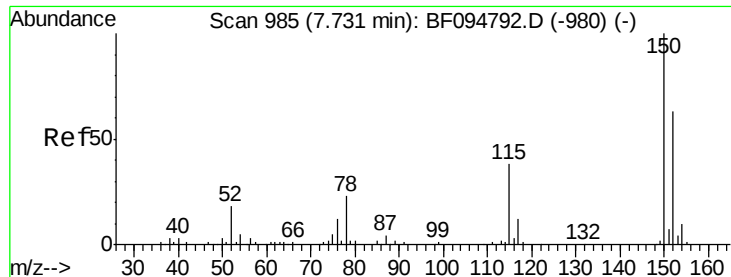
Manual Integrations
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Quant Time: May 31 03:55:54 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	96432	20.00	ng	0.00
21) Naphthalene-d8	9.76	136	374941	20.00	ng	0.00
38) Acenaphthene-d10	12.59	164	158253	20.00	ng	0.00
63) Phenanthrene-d10	14.99	188	233999	20.00	ng	-0.01
75) Chrysene-d12	18.67	240	208620	20.00	ng	0.00
86) Perylene-d12	20.35	264	175632	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	647429	111.93	ng	0.00
7) Phenol-d6	7.28	99	793438	114.33	ng	-0.01
23) Nitrobenzene-d5	8.64	82	452958	76.18	ng	-0.01
41) 2,4,6-Tribromophenol	13.89	330	124155	95.80	ng	0.00
44) 2-Fluorobiphenyl	11.52	172	833641	75.82	ng	-0.01
78) Terphenyl-d14	17.31	244	500639	52.86	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	9.80	128	97688	5.18	ng	98
37) 2-Methylnaphthalene	10.92	142	56900	4.60	ng	96
48) Acenaphthylene	12.37	152	43955	2.61	ng	97
49) Dimethylphthalate	12.22	163	215883	16.62	ng	98
51) Acenaphthene	12.64	154	95971	9.54	ng	97
54) Dibenzofuran	12.94	168	107451	7.71	ng	97
57) Fluorene	13.49	166	104451	8.62	ng	98
70) Phenanthrene	15.04	178	1136674	84.54	ng	98
71) Anthracene	15.11	178	293268m	21.35	ng	
72) Carbazole	15.41	167	102501	8.20	ng	97
74) Fluoranthene	16.78	202	1176703	85.32	ng	99
77) Pyrene	17.08	202	1135798	72.80	ng	98
79) Butylbenzylphthalate	17.97	149	26350	3.63	ng	# 87
80) Benzo(a)anthracene	18.66	228	592745	48.82	ng	96
82) Chrysene	18.71	228	535060	45.58	ng	98
85) Indeno(1,2,3-cd)pyrene	21.68	276	214962	22.55	ng	94
87) Benzo(b)fluoranthene	19.95	252	586818m	54.07	ng	
88) Benzo(k)fluoranthene	19.97	252	210543m	20.11	ng	
89) Benzo(a)pyrene	20.29	252	411324	41.07	ng	96
90) Dibenzo(a,h)anthracene	21.68	278	52268m	6.32	ng	
91) Benzo(g,h,i)perylene	22.07	276	194094	23.91	ng	98

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



#1

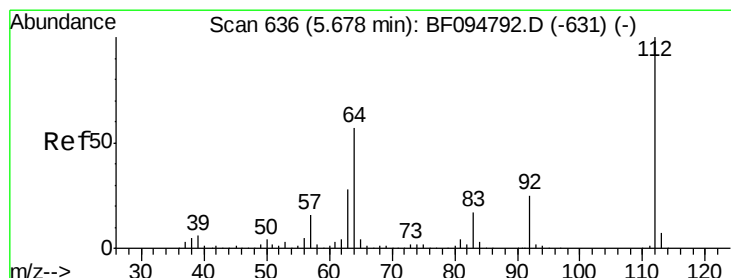
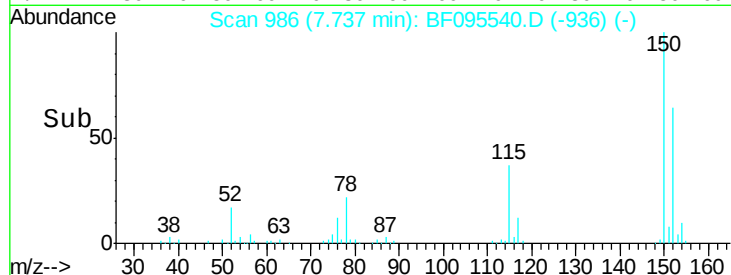
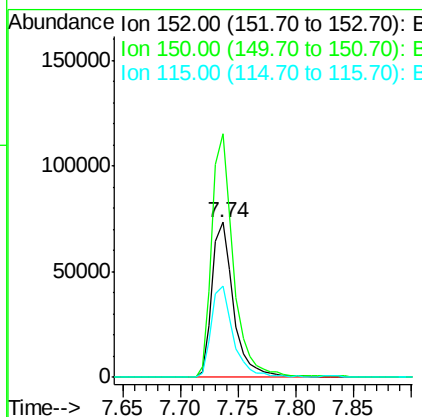
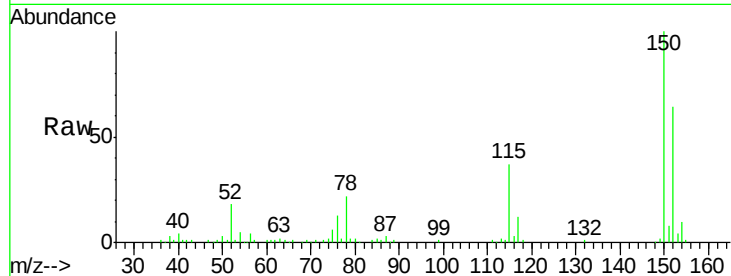
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 986
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.9	126.2	189.2
115	58.5	52.2	78.2

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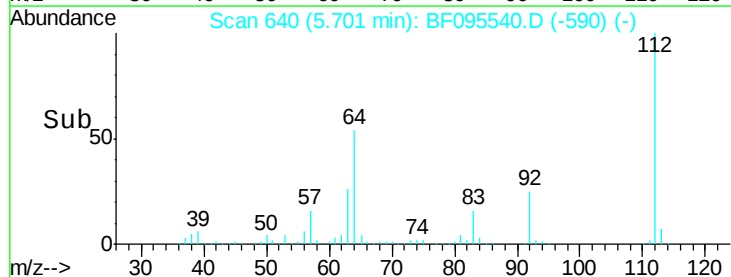
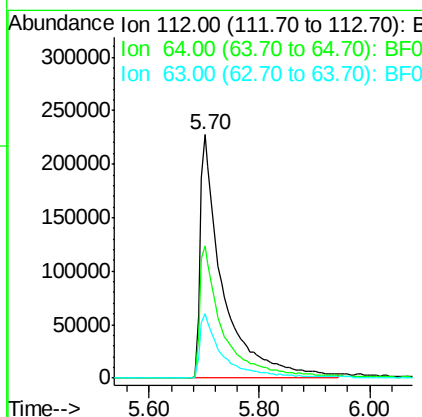
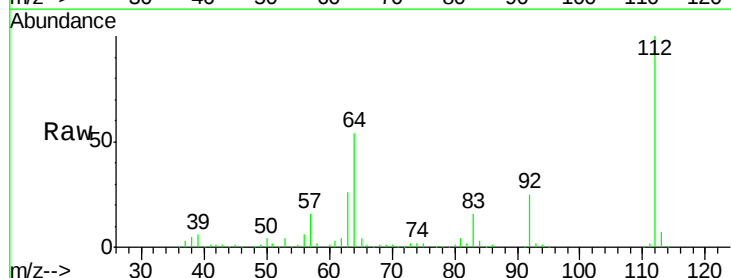
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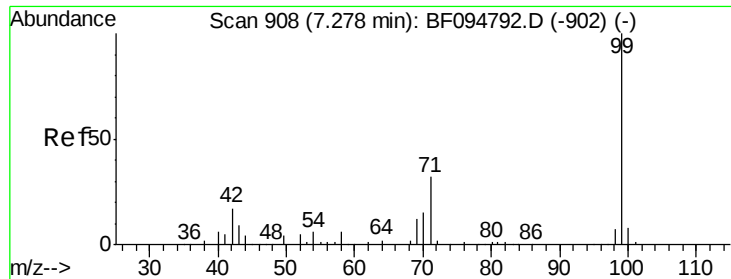


#5

2-Fluorophenol
Concen: 111.93 ng
RT: 5.70 min Scan# 640
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	46.0	69.0
63	26.3	23.4	35.0





#7

Phenol-d6

Concen: 114.33 ng

RT: 7.28 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Instrument :

BNA_F

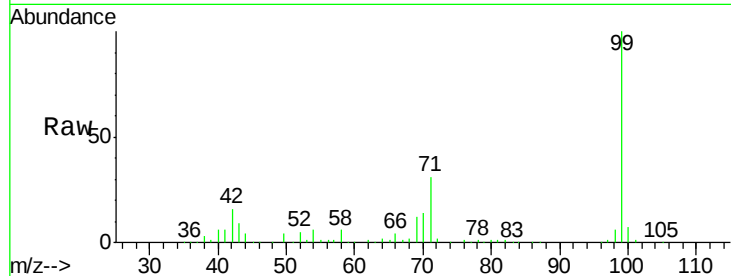
ClientSampleId :

R1-TP-4-SS2

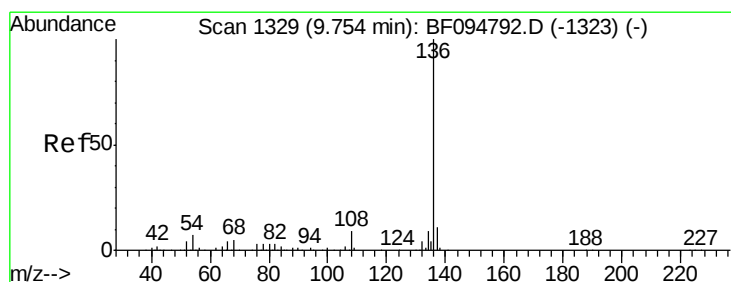
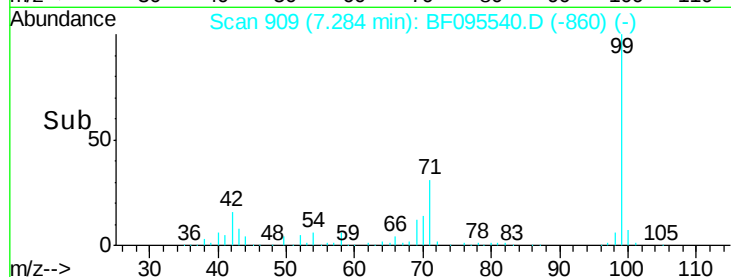
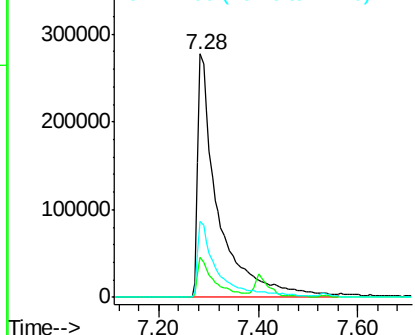
Tgt Ion:	99	Resp:	793438
Ion Ratio	Lower	Upper	
99	100		
42	16.3	13.5	20.3
71	31.1	24.5	36.7

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.76 min Scan# 1330

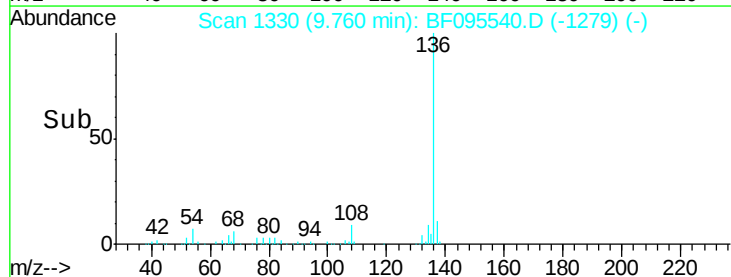
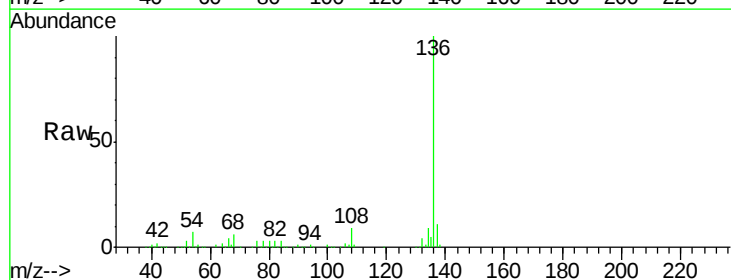
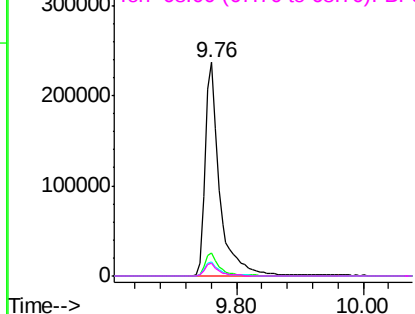
Delta R.T. 0.00 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Tgt Ion:	136	Resp:	374941
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.5	12.7
54	6.6	4.9	7.3
68	5.8	4.1	6.1

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





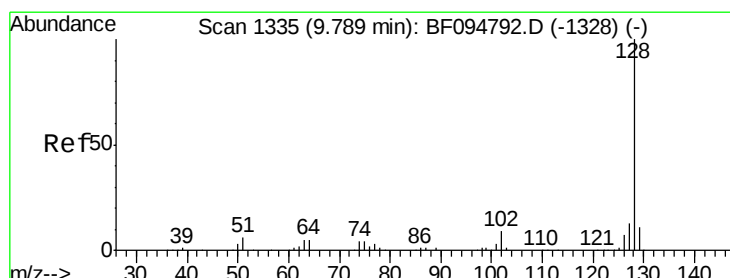
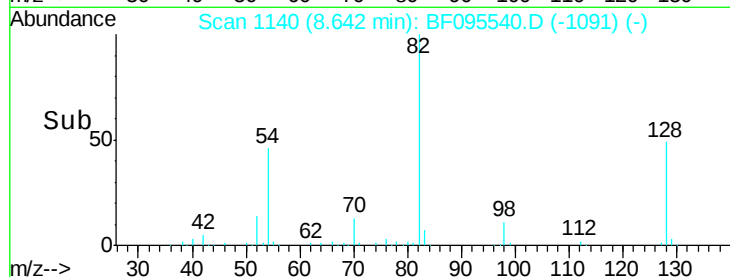
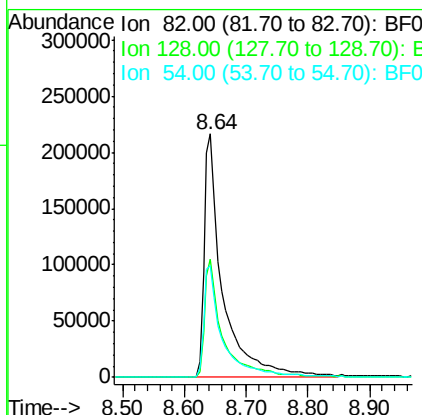
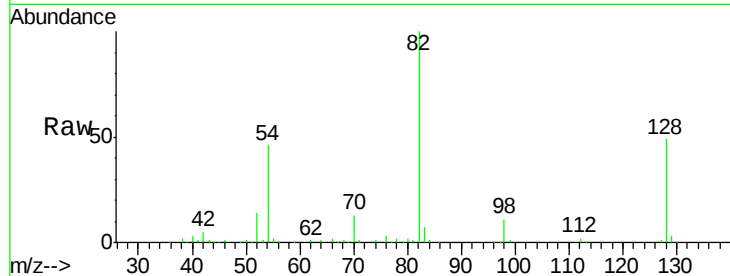
#23
Nitrobenzene-d5
Concen: 76.18 ng
RT: 8.64 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	452958		
128	48.7	34.0	51.0	
54	46.1	42.2	63.2	

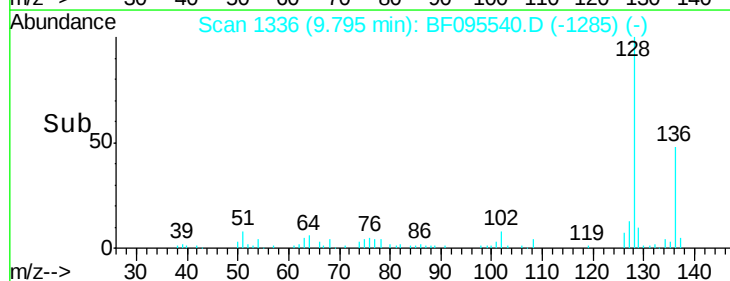
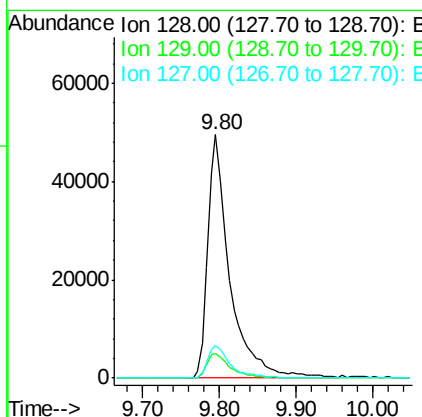
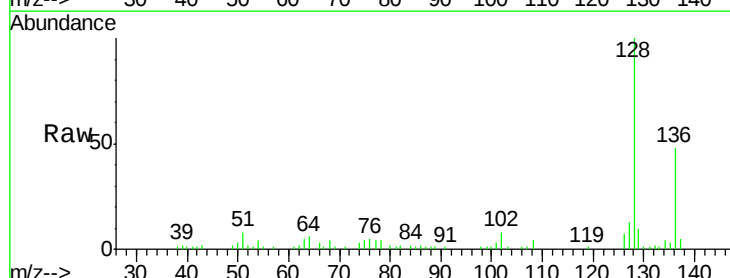
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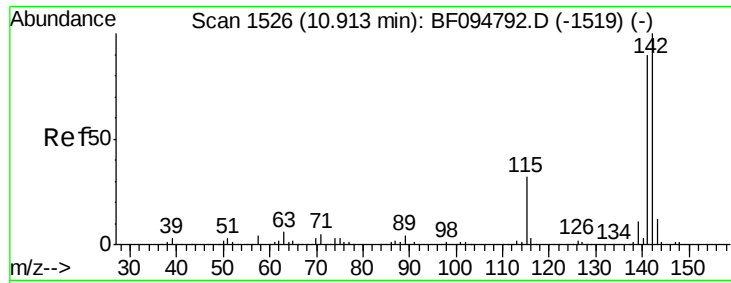
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#31
Naphthalene
Concen: 5.18 ng
RT: 9.80 min Scan# 1336
Delta R.T. 0.00 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	97688		
129	10.1	9.0	13.6	
127	13.4	10.8	16.2	





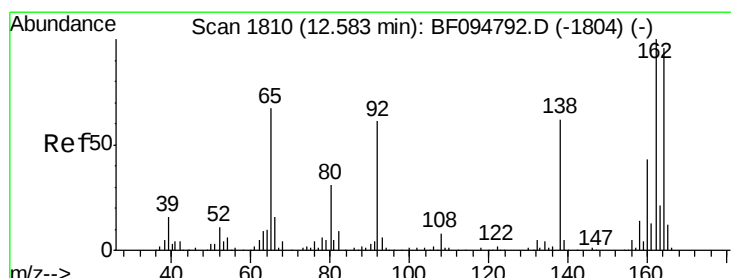
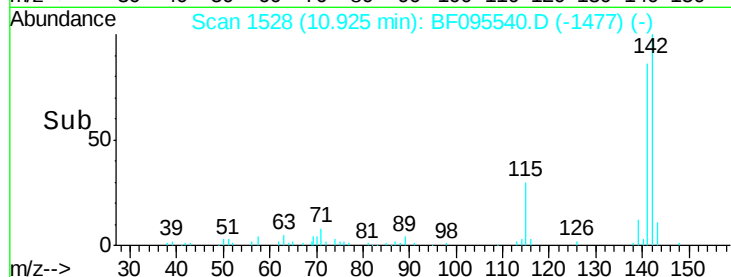
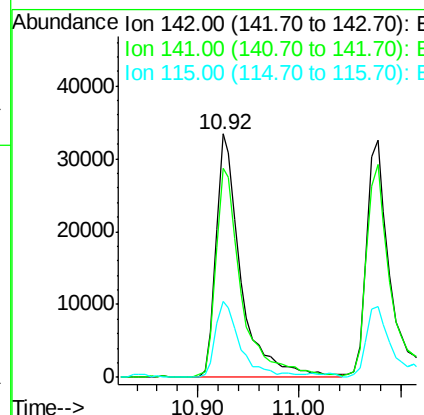
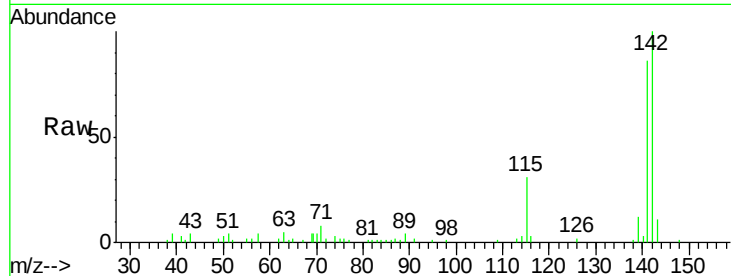
#37
2-Methylnaphthalene
Concen: 4.60 ng
RT: 10.92 min Scan# 1528
Delta R.T. 0.00 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.1	71.3	106.9
115	31.1	27.1	40.7

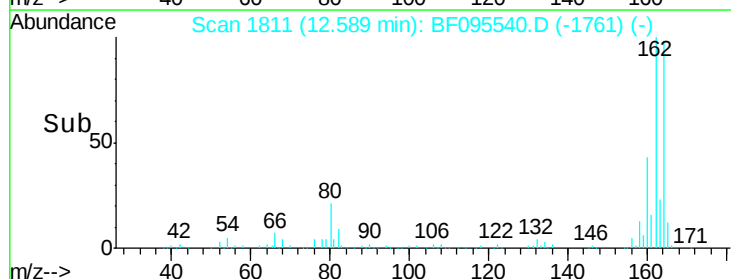
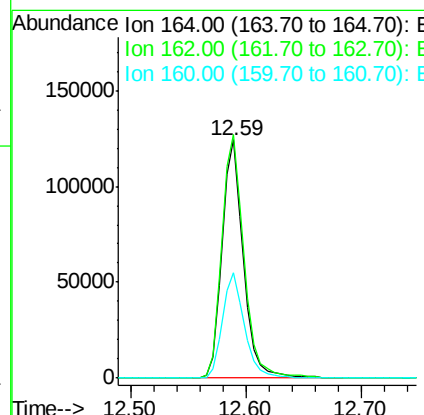
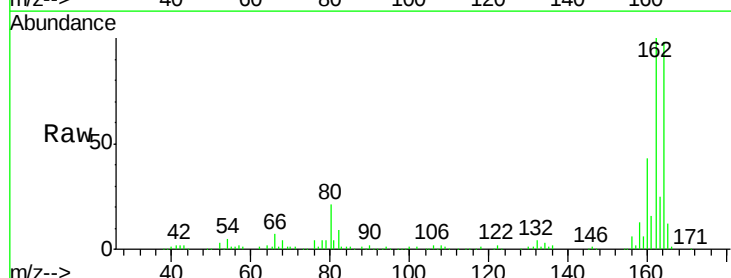
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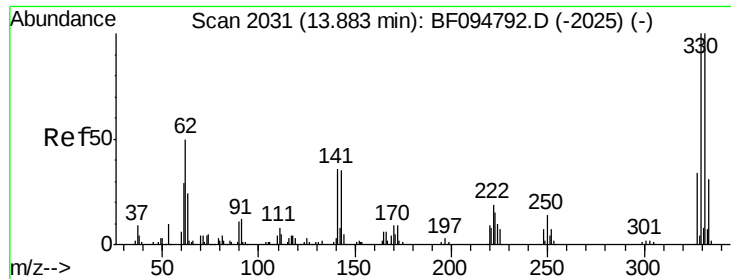
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.59 min Scan# 1811
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.6	123.8
160	44.1	36.2	54.2





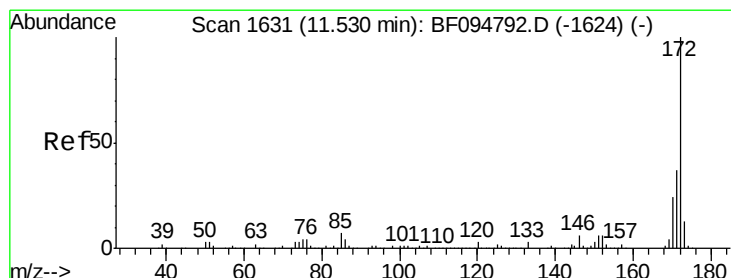
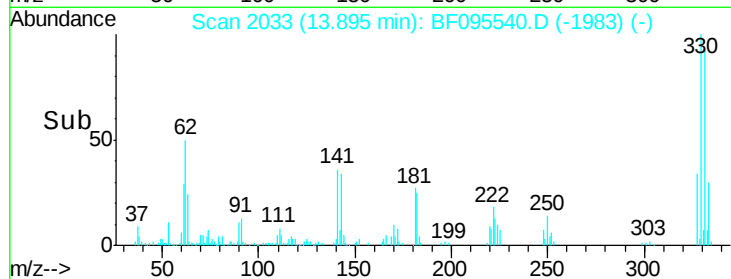
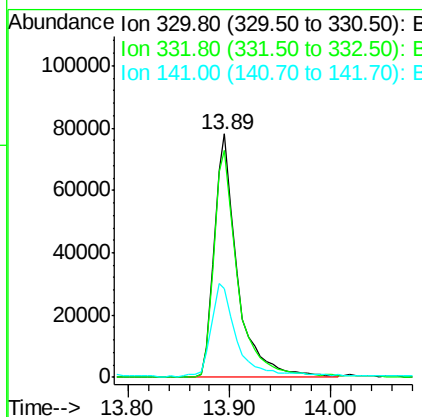
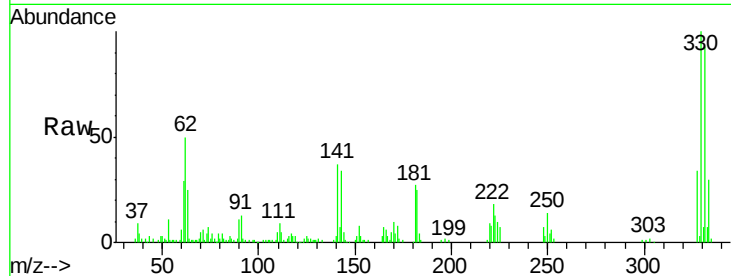
#41
 2,4,6-Tribromophenol
 Concen: 95.80 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. -0.01 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	124155		
332	96.6	76.6	115.0	
141	42.5	31.4	47.2	

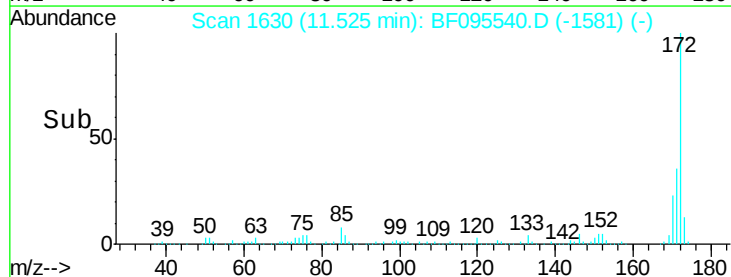
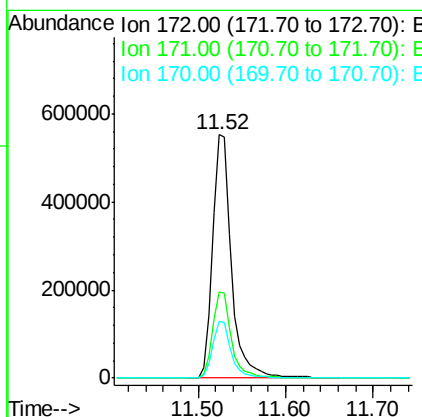
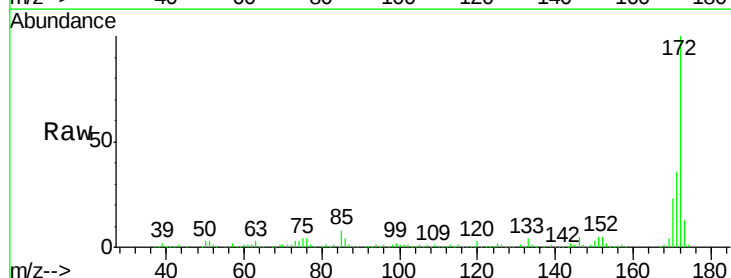
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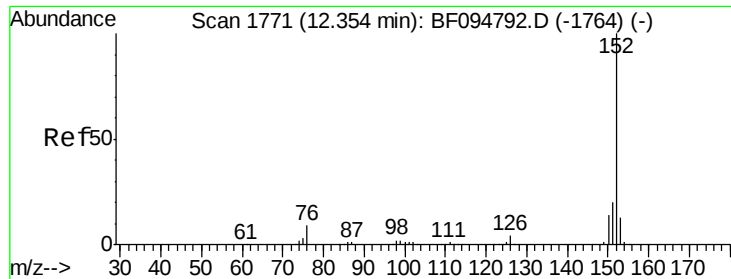
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#44
 2-Fluorobiphenyl
 Concen: 75.82 ng
 RT: 11.52 min Scan# 1630
 Delta R.T. -0.01 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	833641		
171	35.6	29.6	44.4	
170	23.1	19.8	29.8	





#48

Acenaphthylene

Concen: 2.61 ng

RT: 12.37 min Scan# 1773

Delta R.T. 0.00 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Instrument :

BNA_F

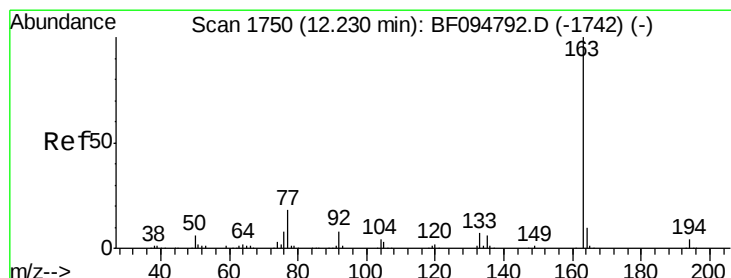
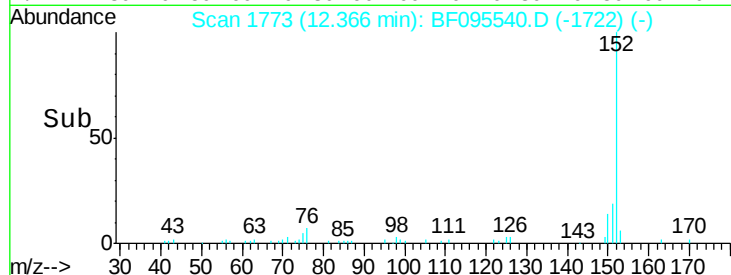
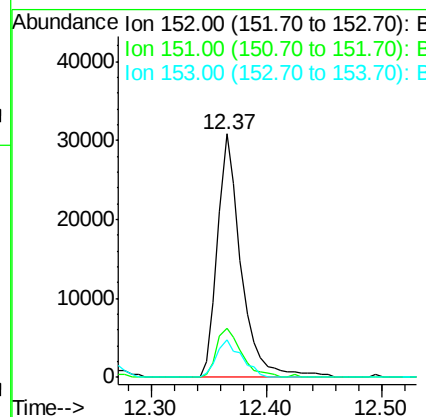
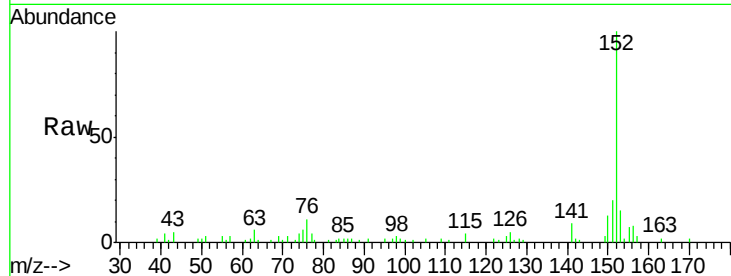
ClientSampleId :

R1-TP-4-SS2

Tgt Ion:	152	Resp:	43955
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.8	25.2
153	15.2	10.8	16.2

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#49

Dimethylphthalate

Concen: 16.62 ng

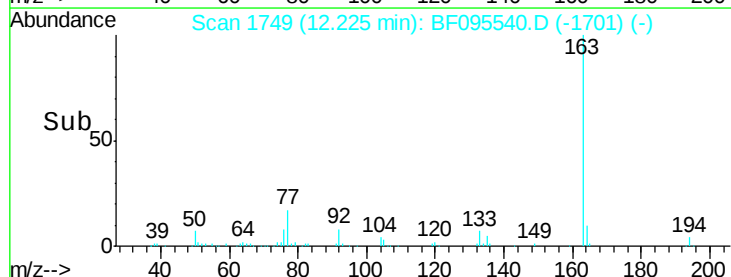
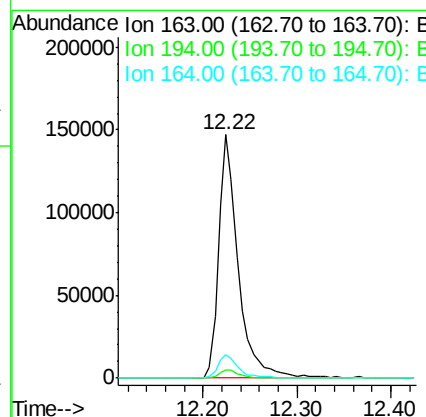
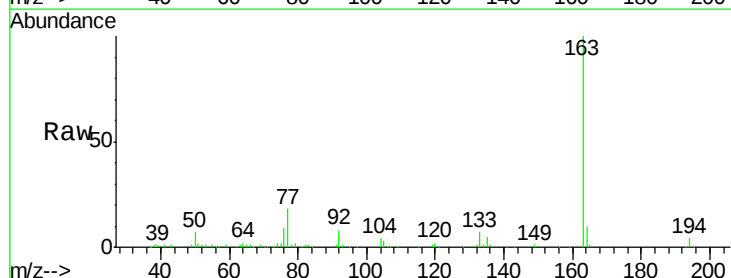
RT: 12.22 min Scan# 1749

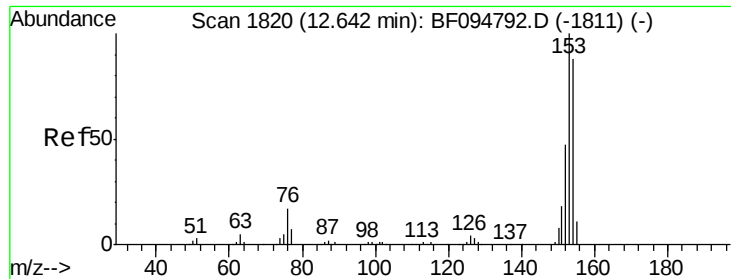
Delta R.T. -0.02 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Tgt Ion:	163	Resp:	215883
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.6	4.0
164	9.8	8.4	12.6





#51

Acenaphthene

Concen: 9.54 ng

RT: 12.64 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Instrument :

BNA_F

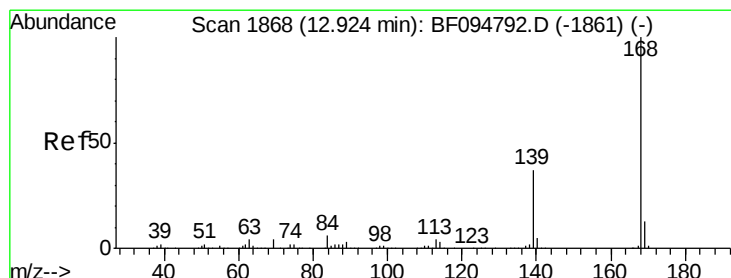
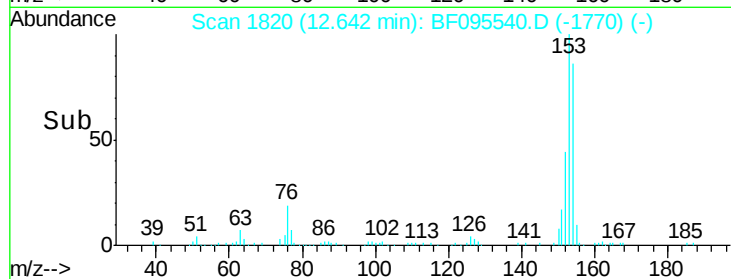
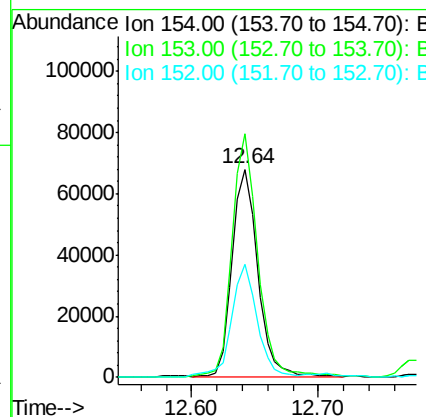
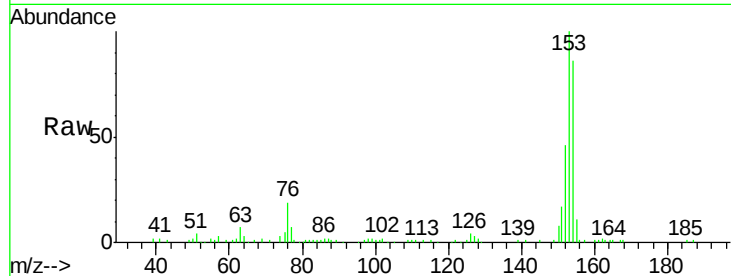
ClientSampled :

R1-TP-4-SS2

Tgt Ion:	154	Resp:	95971
Ion Ratio	Lower	Upper	
154	100		
153	116.9	90.5	135.7
152	54.3	43.6	65.4

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#54

Dibenzofuran

Concen: 7.71 ng

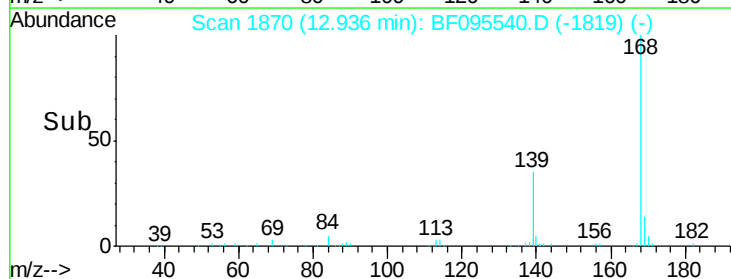
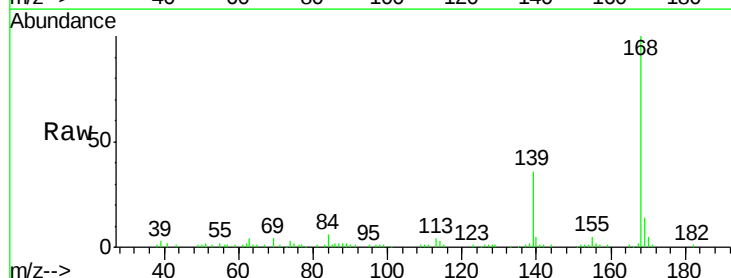
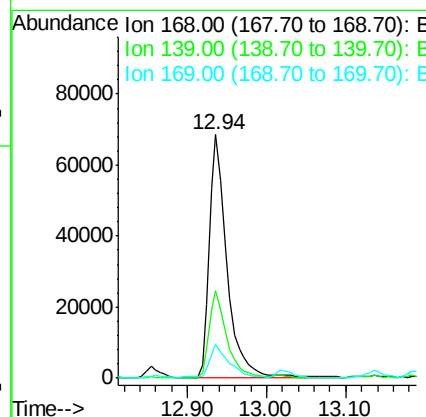
RT: 12.94 min Scan# 1870

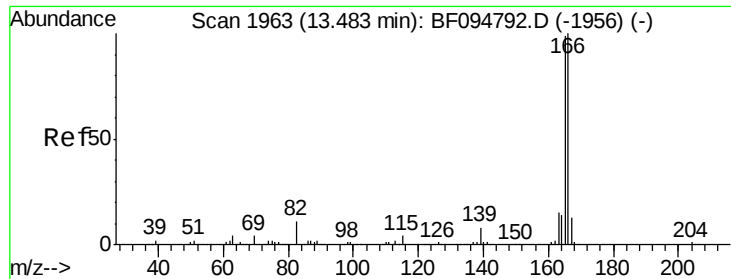
Delta R.T. 0.00 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Tgt Ion:	168	Resp:	107451
Ion Ratio	Lower	Upper	
168	100		
139	35.8	30.6	45.8
169	14.0	10.8	16.2





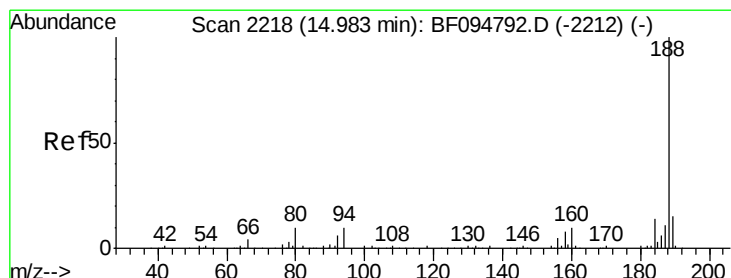
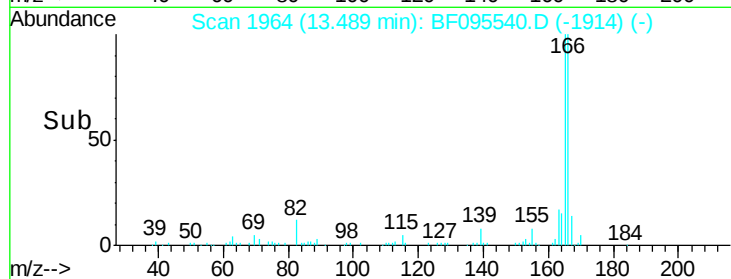
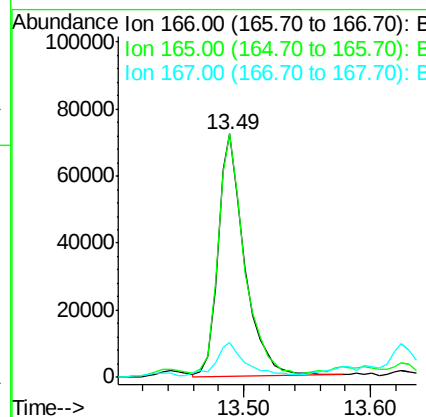
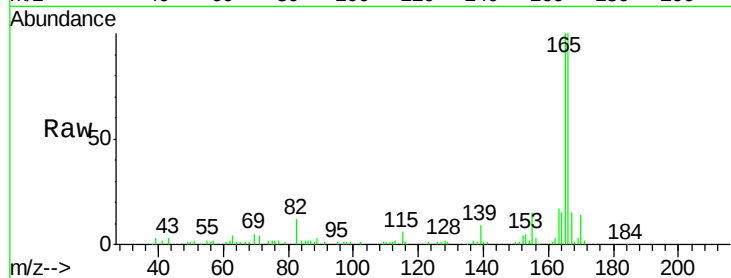
#57
Fluorene
 Concen: 8.62 ng
 RT: 13.49 min Scan# 1964
 Delta R.T. -0.01 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	104451		
165	100.2	78.8	118.2	
167	14.6	10.6	16.0	

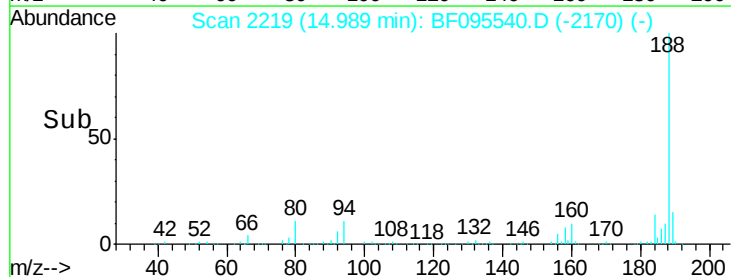
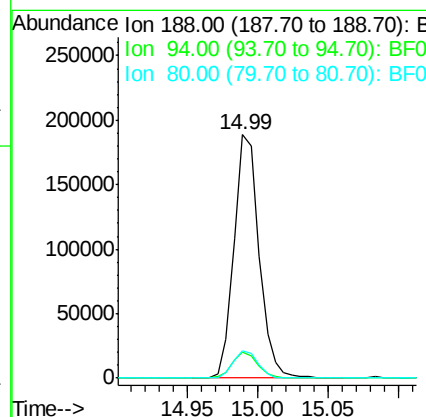
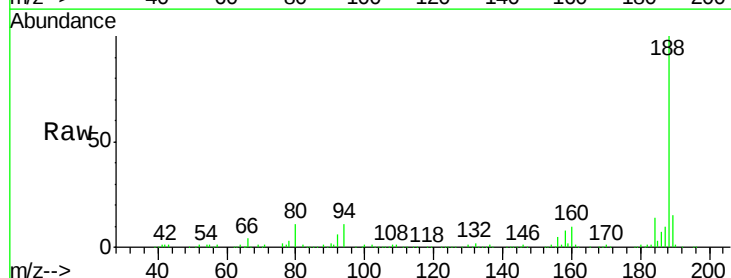
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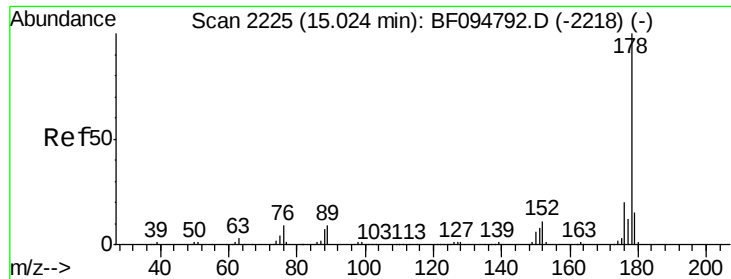
mohammad
 5/31/2017 5:02:36 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.99 min Scan# 2219
 Delta R.T. -0.01 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	233999		
94	10.7	9.4	14.2	
80	11.1	10.2	15.2	





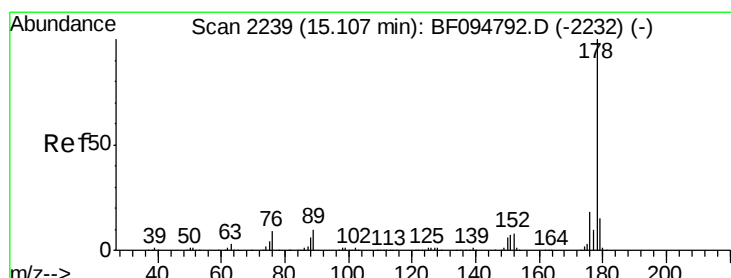
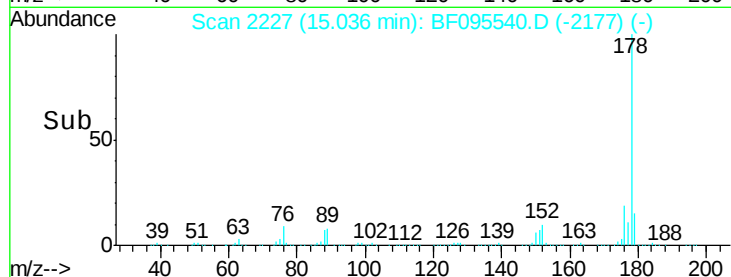
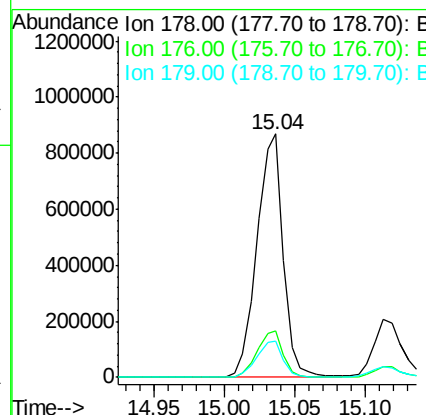
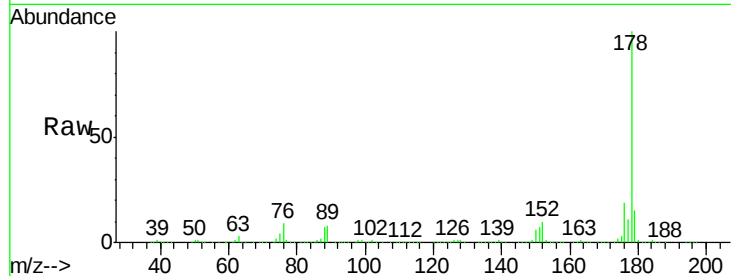
#70
Phenanthrene
Concen: 84.54 ng
RT: 15.04 min Scan# 2227
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2

Tgt Ion:178 Resp: 1136674
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.4
179 15.0 12.6 19.0

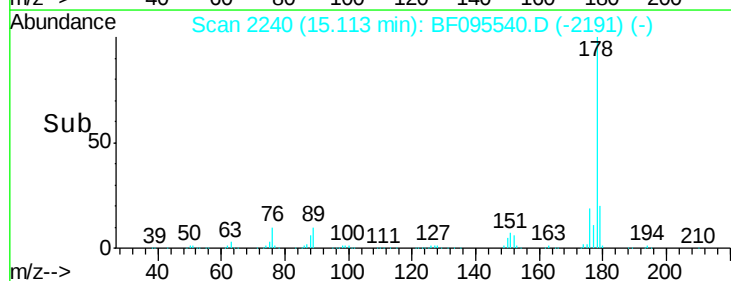
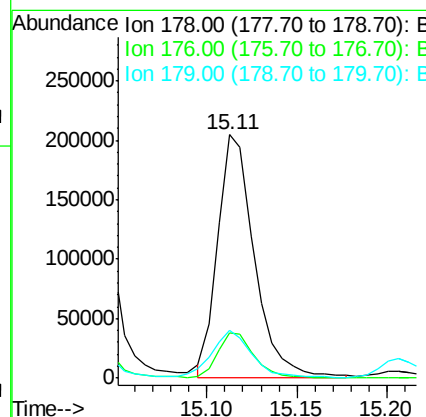
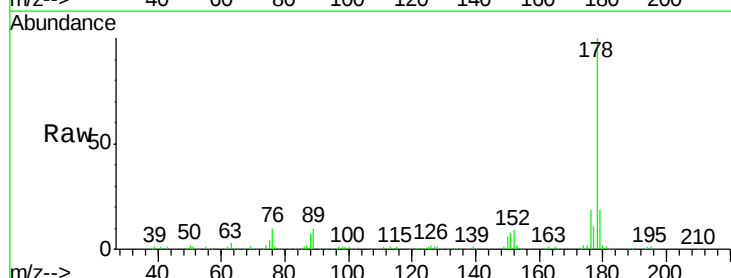
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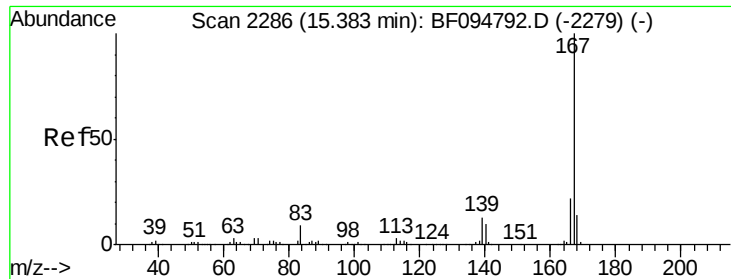
mohammad
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#71
Anthracene
Concen: 21.35 ng m
RT: 15.11 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Tgt Ion:178 Resp: 293268
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.8
179 19.5 12.7 19.1#





#72

Carbazole

Concen: 8.20 ng

RT: 15.41 min Scan# 2290

Delta R.T. 0.00 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Instrument :

BNA_F

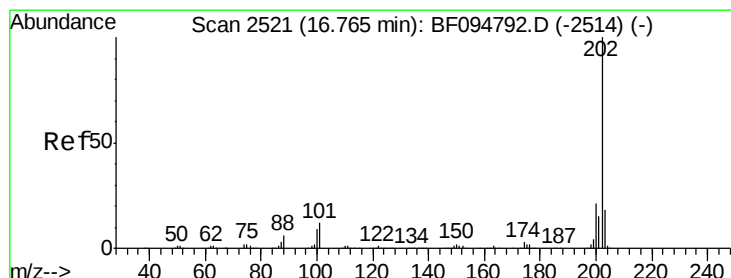
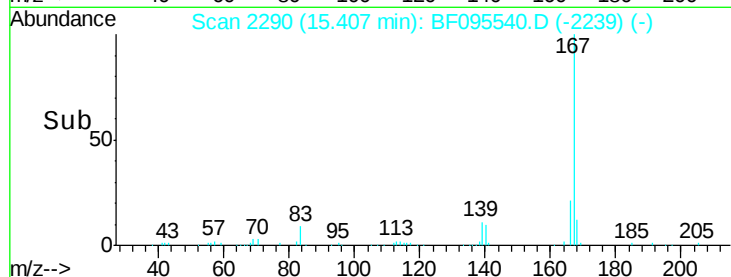
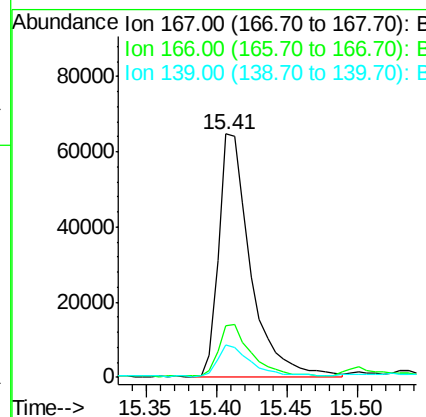
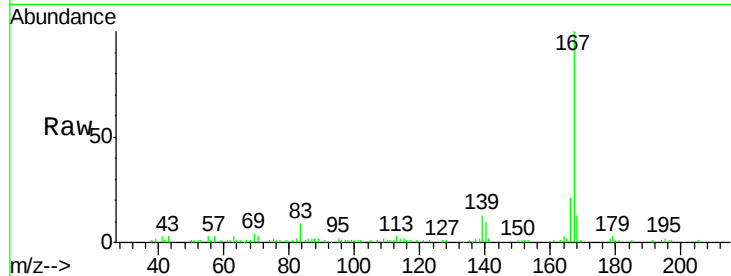
ClientSampleId :

R1-TP-4-SS2

Tgt Ion:	167	Resp:	102501
Ion Ratio	Lower	Upper	
167	100		
166	21.4	18.1	27.1
139	13.3	11.7	17.5

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#74

Fluoranthene

Concen: 85.32 ng

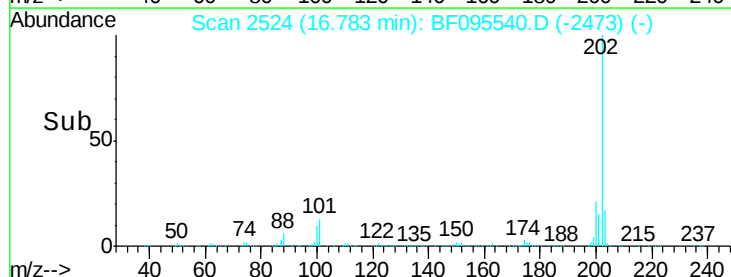
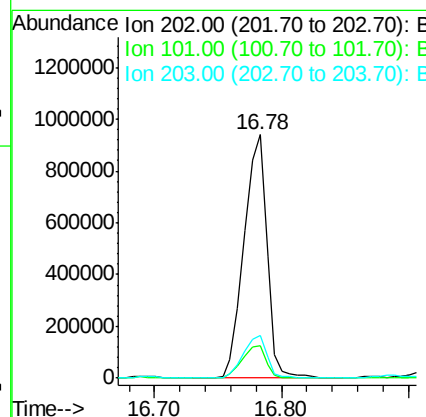
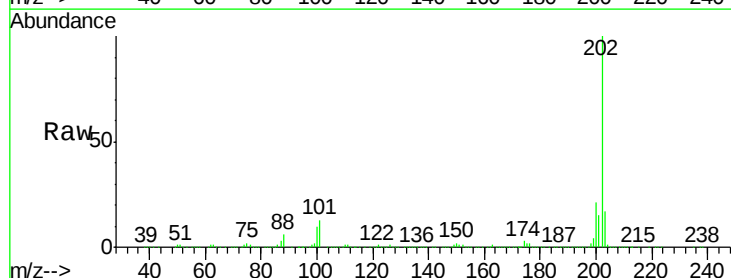
RT: 16.78 min Scan# 2524

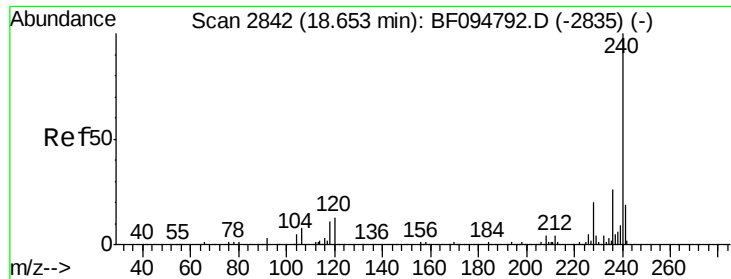
Delta R.T. 0.00 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Tgt Ion:	202	Resp:	1176703
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	33.2
203	17.5	0.0	38.1





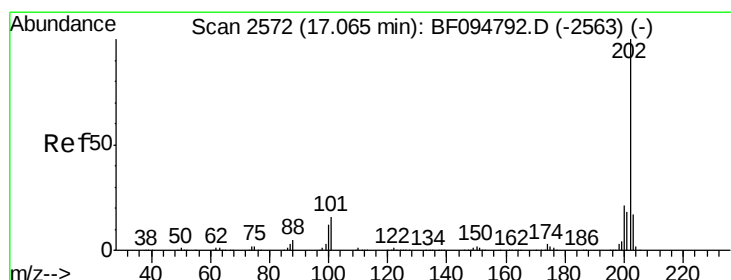
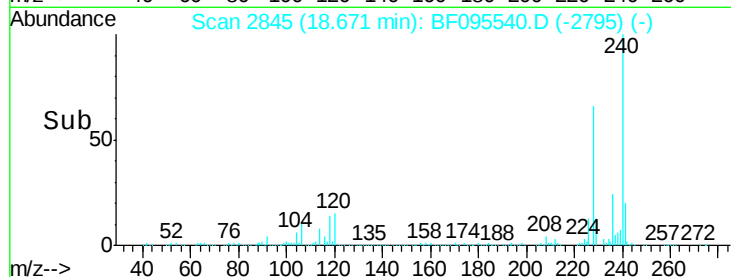
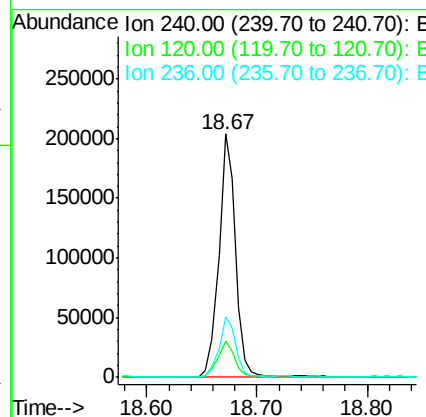
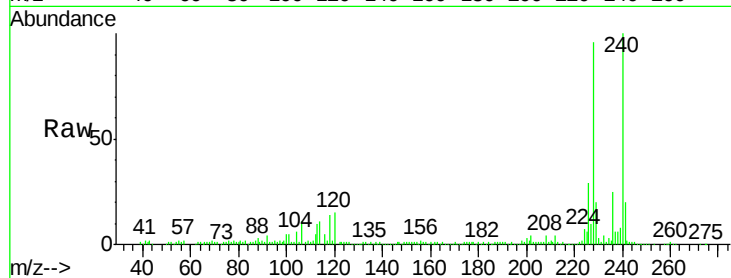
#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.67 min Scan# 2845
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	208620		
120	15.1	5.8	8.8#	
236	24.7	20.5	30.7	

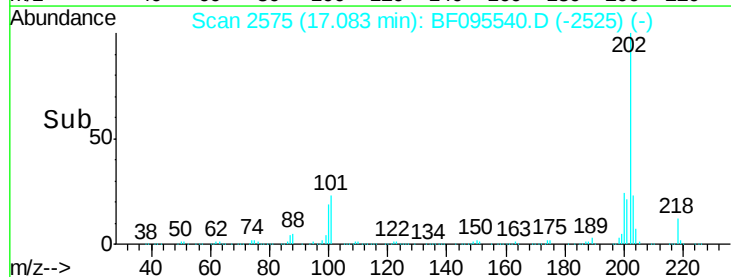
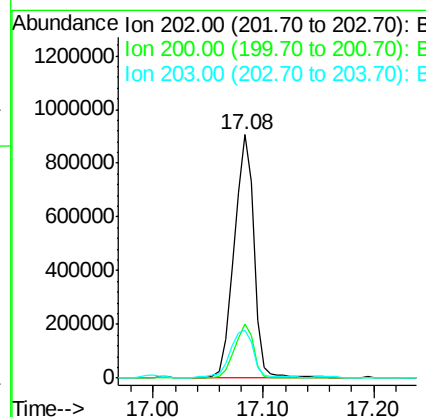
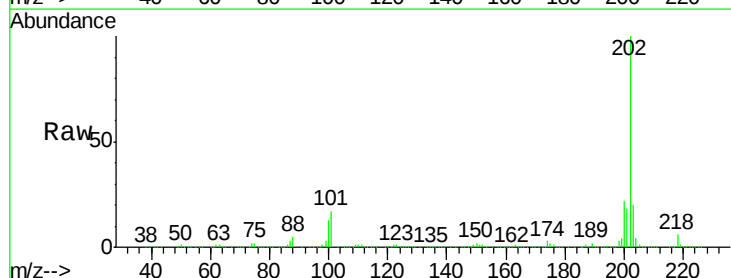
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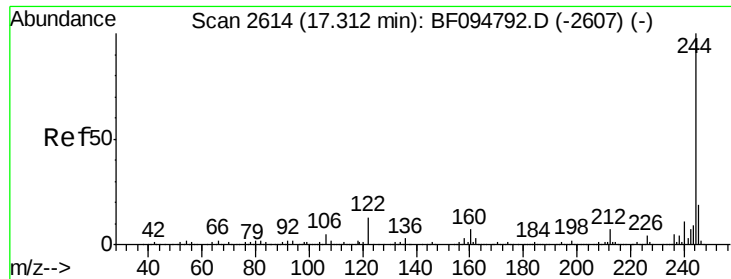
mohammad
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#77
Pyrene
Concen: 72.80 ng
RT: 17.08 min Scan# 2575
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1135798		
200	22.1	17.6	26.4	
203	19.7	14.4	21.6	





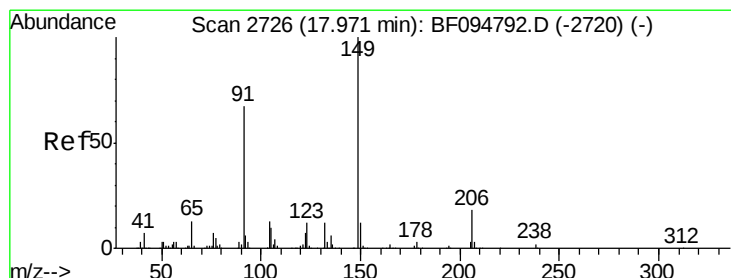
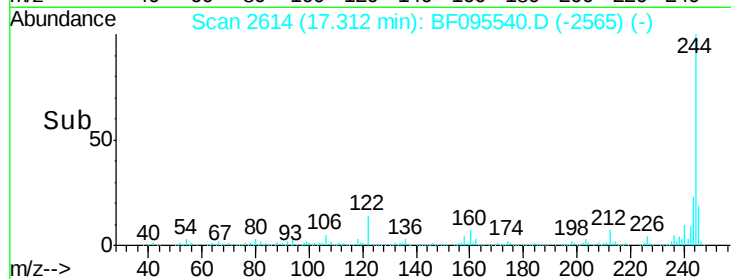
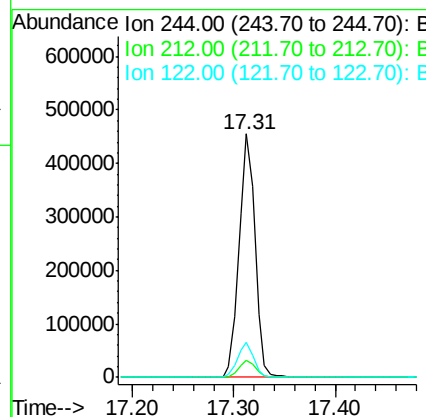
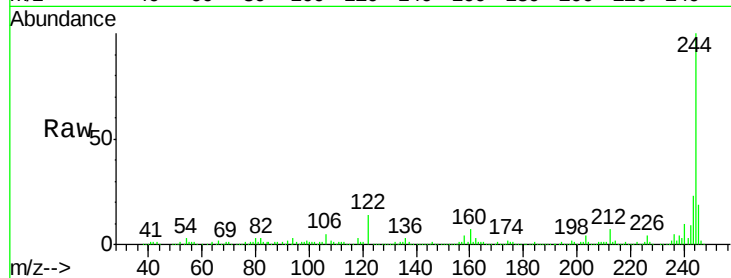
#78
 Terphenyl-d14
 Concen: 52.86 ng
 RT: 17.31 min Scan# 2614
 Delta R.T. -0.01 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	500639		
212	7.2	6.0	9.0	
122	14.5	10.3	15.5	

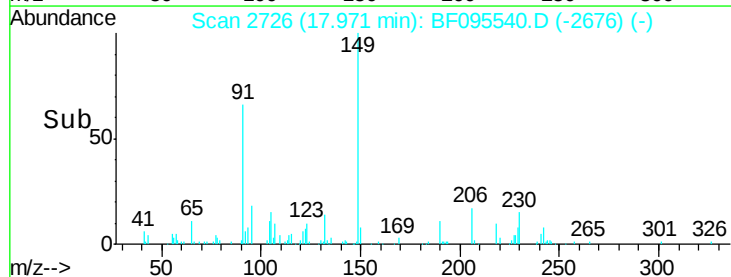
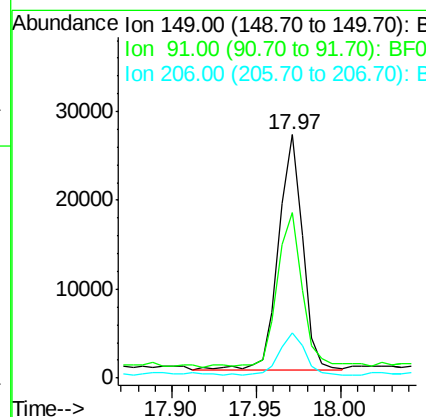
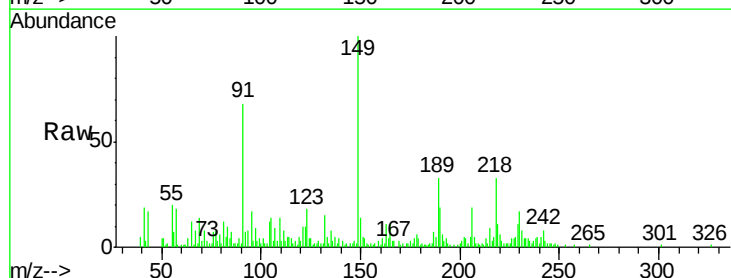
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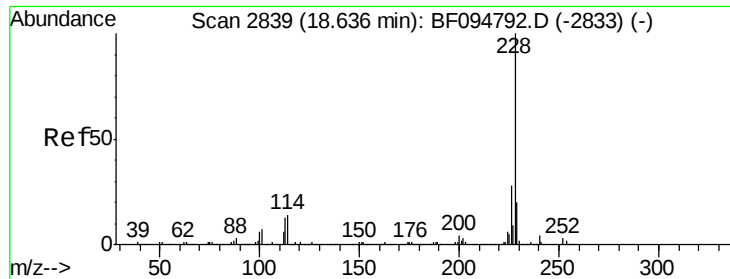
mohammad
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#79
 Butylbenzylphthalate
 Concen: 3.63 ng
 RT: 17.97 min Scan# 2726
 Delta R.T. -0.01 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	26350		
91	67.8	45.0	67.4	#
206	18.5	17.0	25.6	





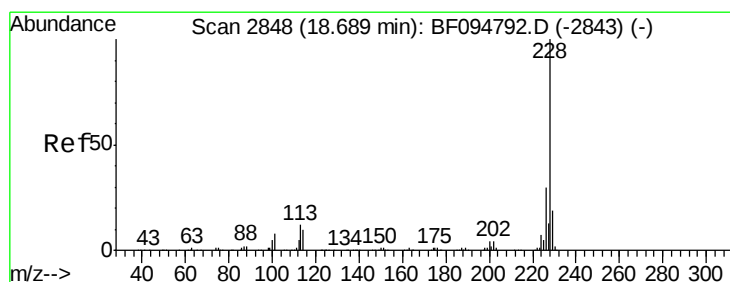
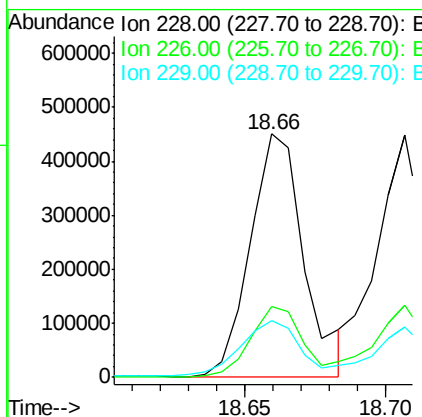
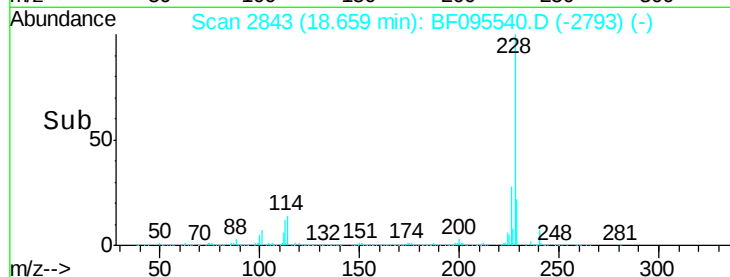
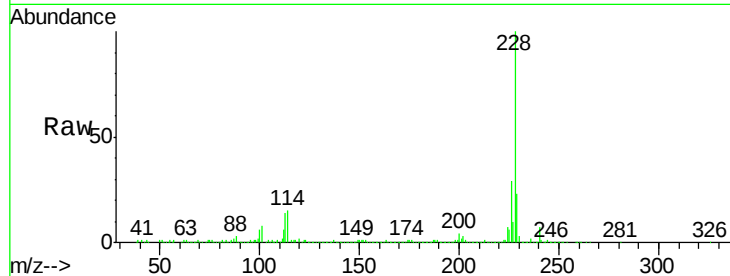
#80
Benzo(a)anthracene
Concen: 48.82 ng
RT: 18.66 min Scan# 2843
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	33.8
229	23.3	16.3	24.5

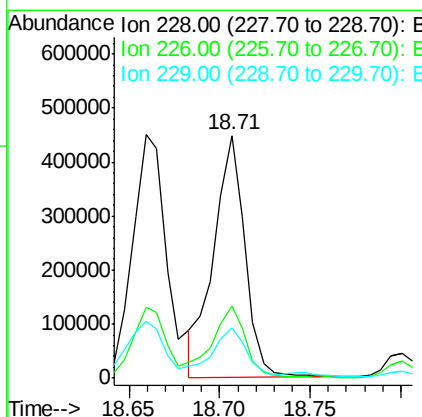
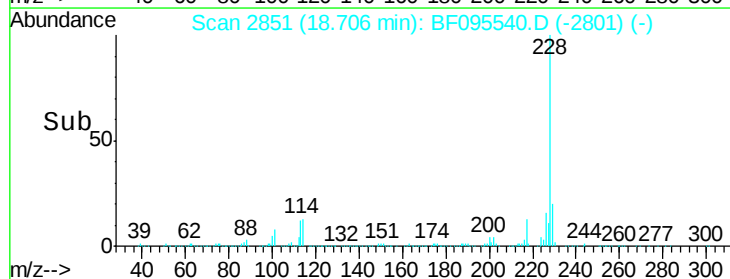
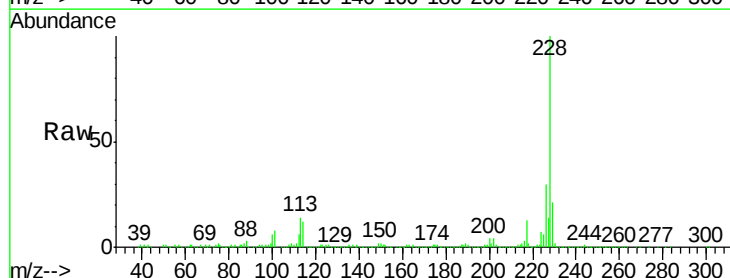
Manual Integrations
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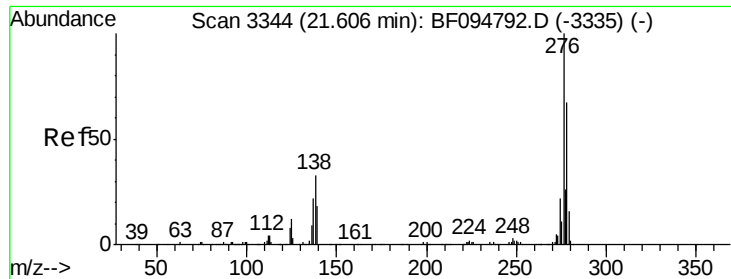
mohammad
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#82
Chrysene
Concen: 45.58 ng
RT: 18.71 min Scan# 2851
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.9	37.3
229	20.5	15.8	23.6





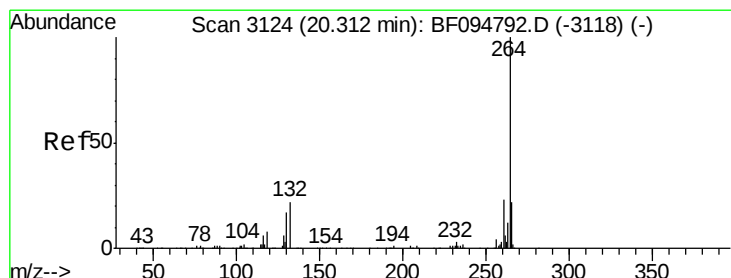
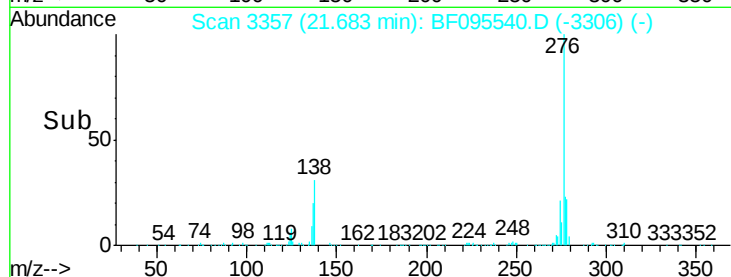
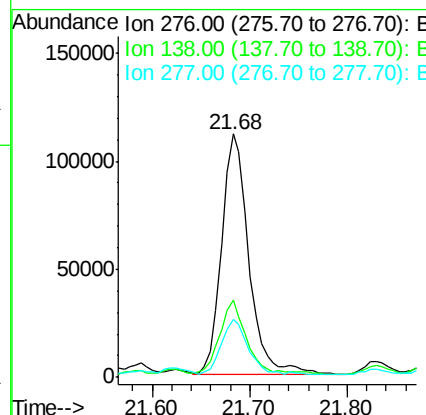
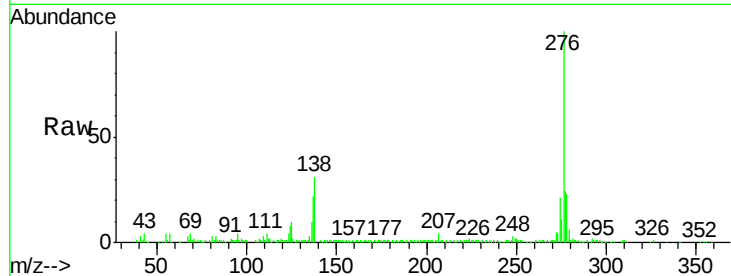
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 22.55 ng
 RT: 21.68 min Scan# 3357
 Delta R.T. 0.00 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	214962		
138	32.1		27.8	41.6
277	21.8		20.2	30.4

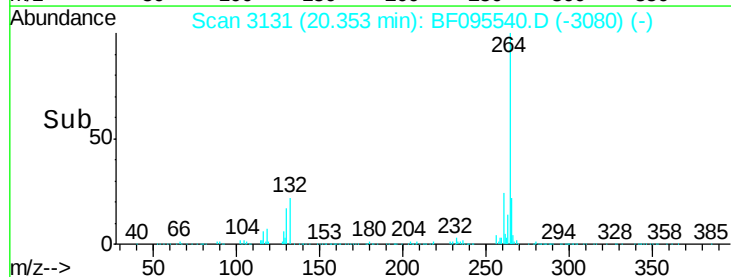
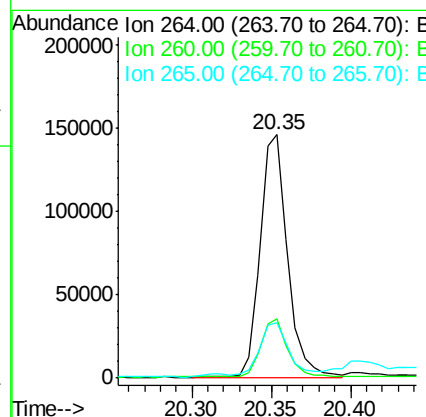
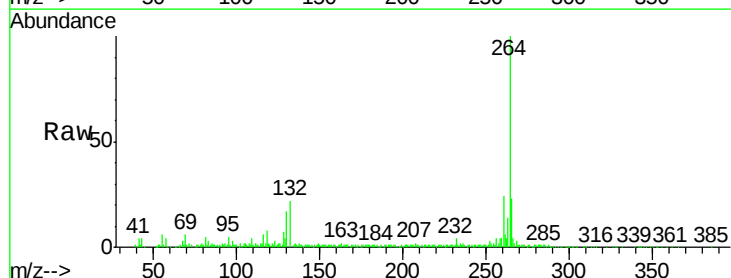
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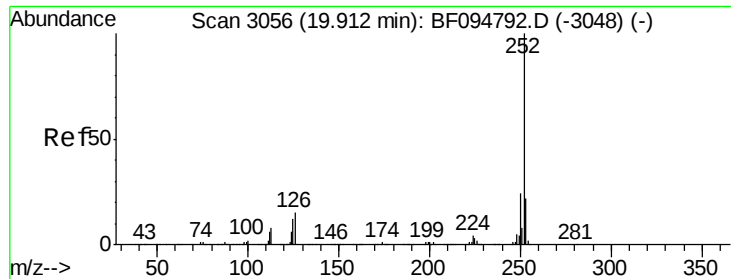
mohammad
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.35 min Scan# 3131
 Delta R.T. 0.00 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	175632		
260	24.2		19.5	29.3
265	22.7		17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 54.07 ng m

RT: 19.95 min Scan# 3062

Delta R.T. 0.01 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Instrument :

BNA_F

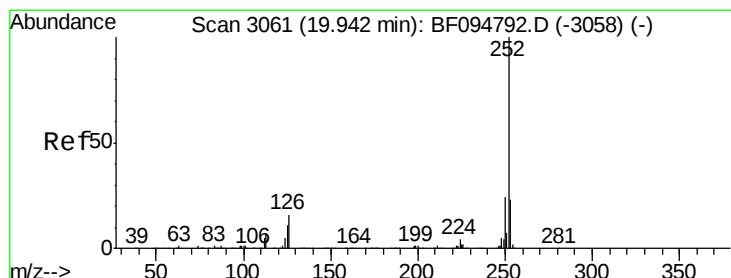
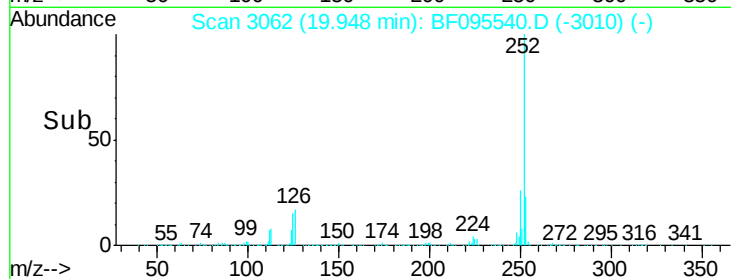
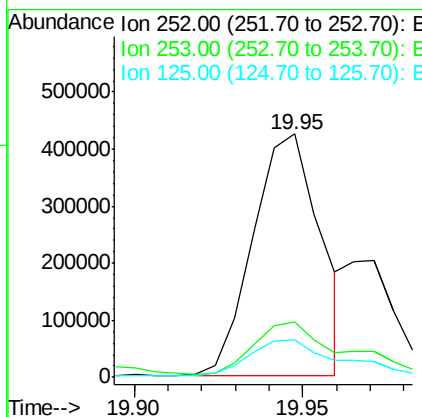
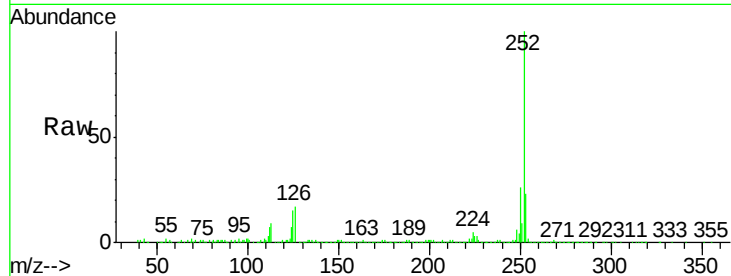
ClientSampled :

R1-TP-4-SS2

Tgt Ion:	252	Resp:	586818
Ion Ratio	Lower	Upper	
252	100		
253	22.7	18.1	27.1
125	15.4	9.8	14.8

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 20.11 ng m

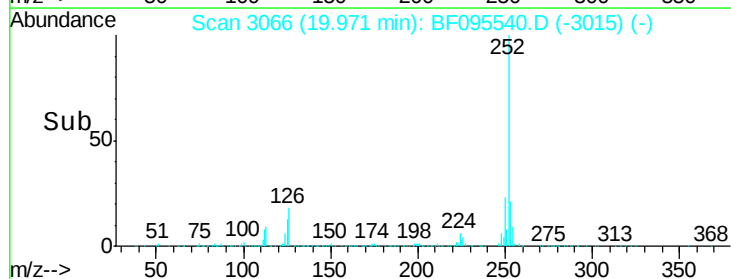
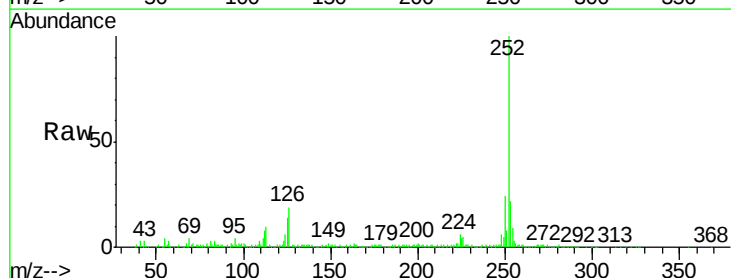
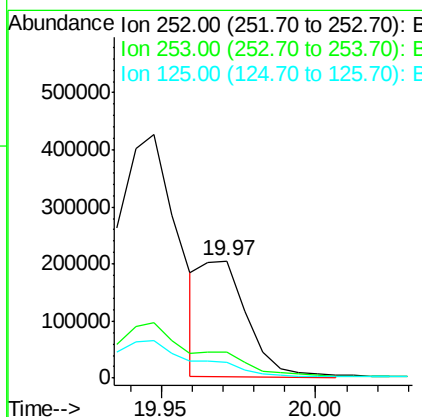
RT: 19.97 min Scan# 3066

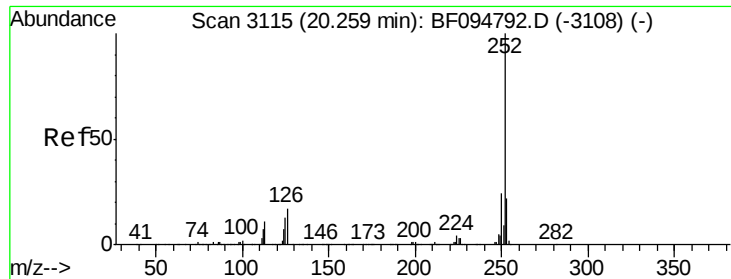
Delta R.T. 0.00 min

Lab File: BF095540.D

Acq: 30 May 2017 17:44

Tgt Ion:	252	Resp:	210543
Ion Ratio	Lower	Upper	
252	100		
253	22.1	18.4	27.6
125	13.7	13.1	19.7





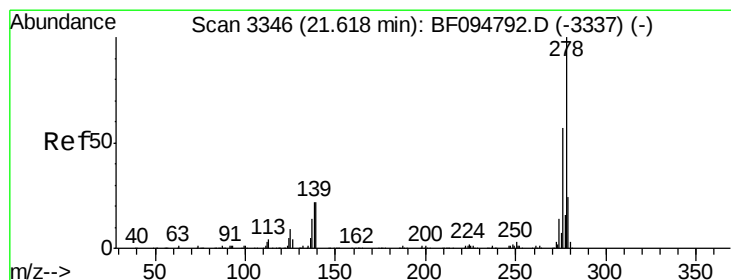
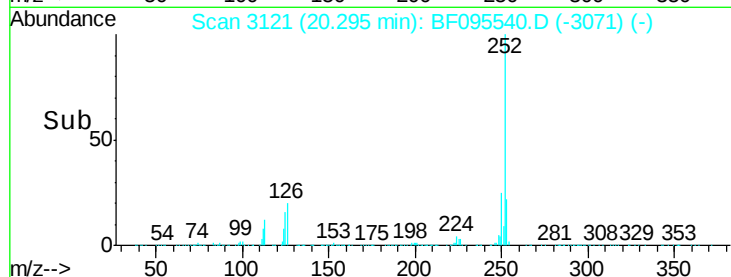
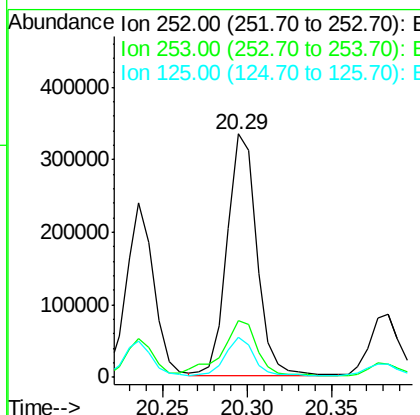
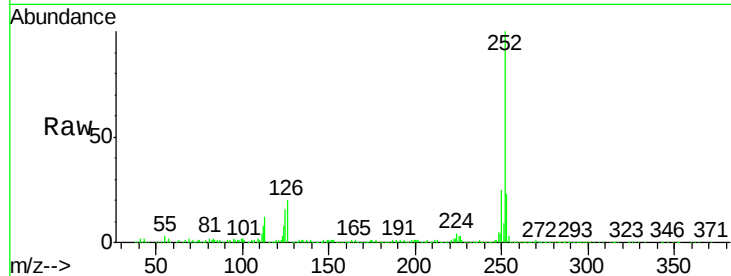
#89
Benzo(a)pyrene
Concen: 41.07 ng
RT: 20.29 min Scan# 3121
Delta R.T. -0.01 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Instrument :
BNA_F
ClientSampleId :
R1-TP-4-SS2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	16.4	11.0	16.4

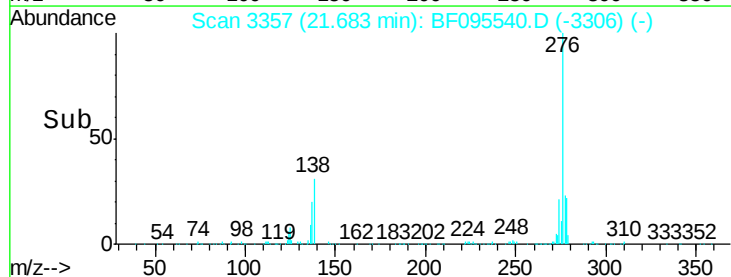
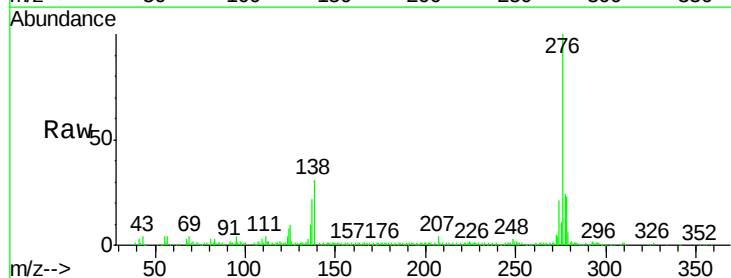
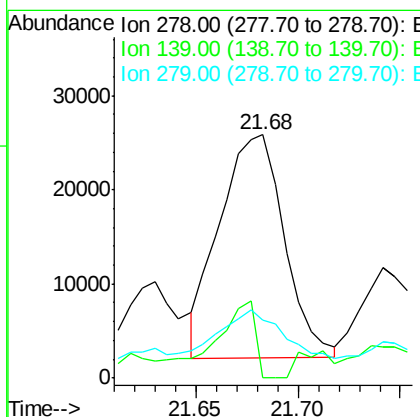
Manual Integrations
APPROVED

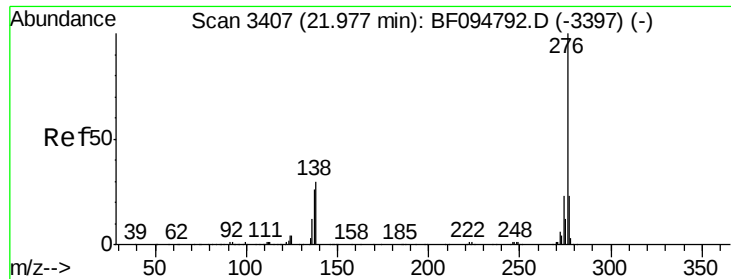
mohammad
5/31/2017 5:02:36 PM



#90
Dibenzo(a,h)anthracene
Concen: 6.32 ng m
RT: 21.68 min Scan# 3357
Delta R.T. 0.00 min
Lab File: BF095540.D
Acq: 30 May 2017 17:44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	24.1	19.3	28.9





#91
 Benzo(g,h,i)perylene
 Concen: 23.91 ng
 RT: 22.07 min Scan# 3423
 Delta R.T. 0.00 min
 Lab File: BF095540.D
 Acq: 30 May 2017 17:44

Instrument :
 BNA_F
 ClientSampleId :
 R1-TP-4-SS2

Tgt	Ion	Ratio	Lower	Upper
276	100			
277	25.0	18.6	28.0	
138	32.1	25.4	38.0	

Manual Integrations
 APPROVED

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 5/31/2017 5:02:36 PM

