

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
 Data File : BF096356.D
 Acq On : 1 Jul 2017 00:32
 Operator : SJ/MA
 Sample : I3930-03
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B2-4-6

Manual Integrations
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mohammad
 7/3/2017 11:37:35 AM

Quant Time: Jul 01 02:11:15 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 15:41:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	140594	20.00	ng	-0.02
21) Naphthalene-d8	8.04	136	550802	20.00	ng	-0.02
38) Acenaphthene-d10	9.79	164	192925	20.00	ng	-0.02
63) Phenanthrene-d10	11.27	188	293134	20.00	ng	-0.01
75) Chrysene-d12	13.90	240	285403	20.00	ng	-0.01
86) Perylene-d12	15.33	264	196740	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	1106090	113.34	ng	0.00
7) Phenol-d6	6.39	99	1363460	115.38	ng	0.00
23) Nitrobenzene-d5	7.32	82	773940	97.27	ng	-0.04
41) 2,4,6-Tribromophenol	10.58	330	213993	140.94	ng	-0.01
44) 2-Fluorobiphenyl	9.12	172	962196	91.34	ng	-0.03
78) Terphenyl-d14	12.86	244	666376	58.26	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.40	94	32773	2.52	ng	94
31) Naphthalene	8.06	128	68301	2.57	ng	96
37) 2-Methylnaphthalene	8.75	142	38610	2.24	ng	93
48) Acenaphthylene	9.65	152	73722	3.62	ng	97
49) Dimethylphthalate	9.51	163	209663	15.19	ng	98
70) Phenanthrene	11.30	178	165816	4.35	ng	98
71) Anthracene	11.35	178	94400	5.76	ng	98
74) Fluoranthene	12.48	202	325776	20.01	ng	96
77) Pyrene	12.71	202	340844	14.53	ng	98
80) Benzo(a)anthracene	13.89	228	201842	11.60	ng	94
82) Chrysene	13.93	228	212681	11.82	ng	97
85) Indeno(1,2,3-cd)pyrene	16.70	276	104715	7.01	ng	95
87) Benzo(b)fluoranthene	14.92	252	320871m	24.83	ng	
88) Benzo(k)fluoranthene	14.94	252	77671m	6.58	ng	
89) Benzo(a)pyrene	15.26	252	144962	12.70	ng	# 95
90) Dibenzo(a,h)anthracene	16.72	278	27875	3.12	ng	# 78
91) Benzo(g,h,i)perylene	17.12	276	97010	10.44	ng	98

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

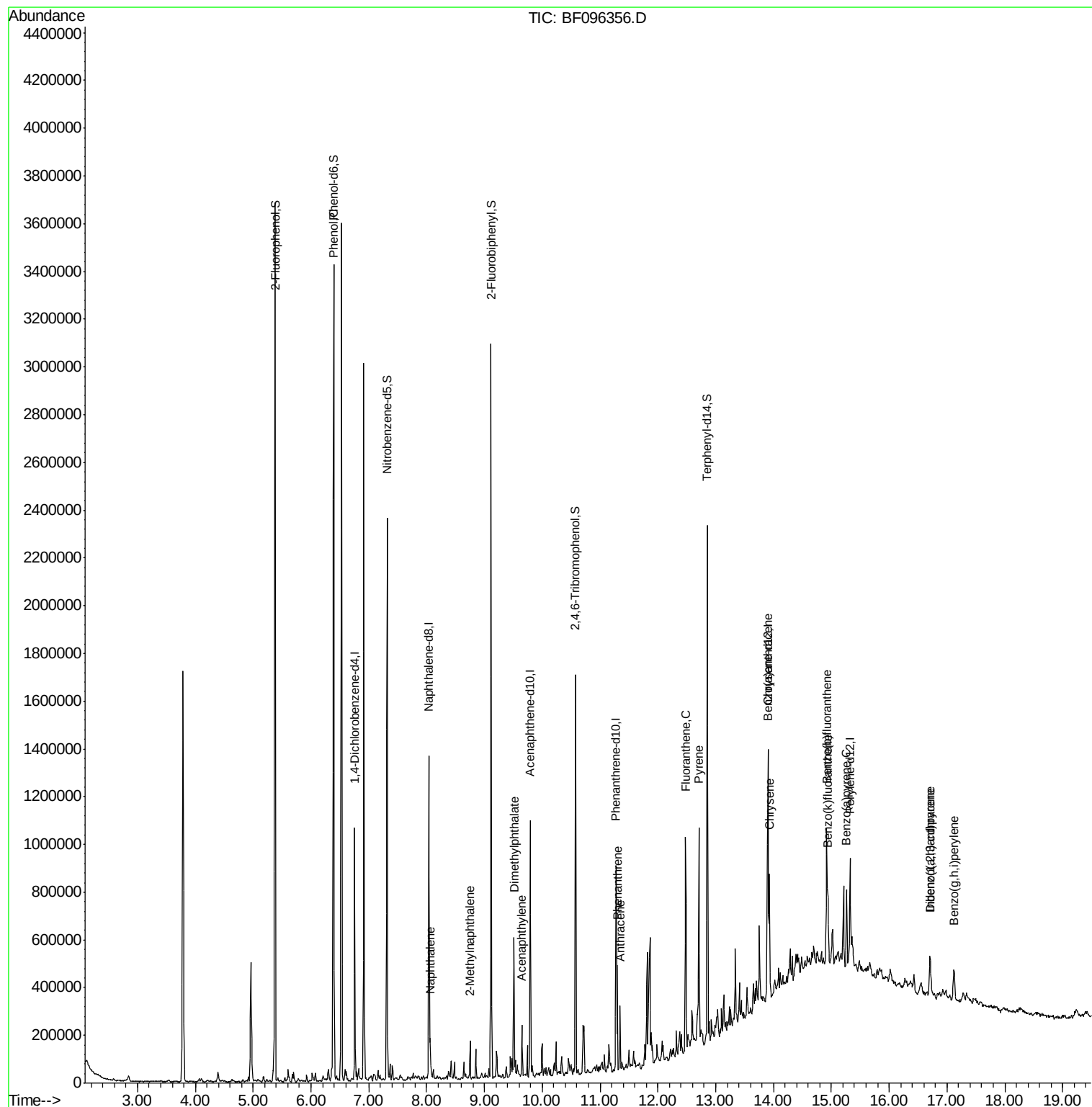
Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
Data File : BF096356.D
Acq On : 1 Jul 2017 00:32
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ALS Vial : 33 Sample Multiplier: 1

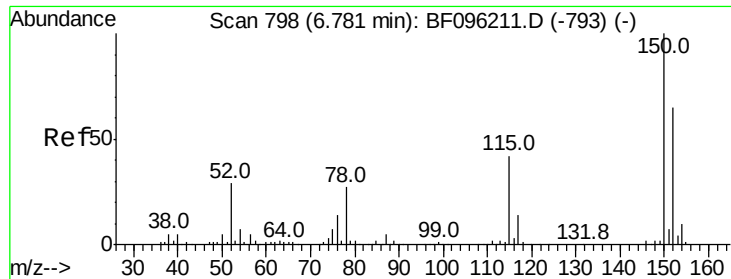
Instrument :
BNA_F
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M
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#1

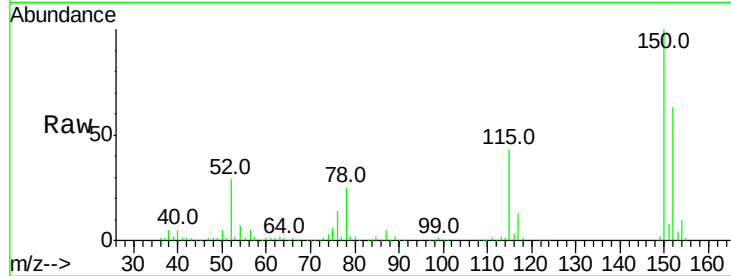
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 794
Delta R.T. -0.02 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampleId :
B2-4-6

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	126.2	189.2
115	67.9	52.2	78.2

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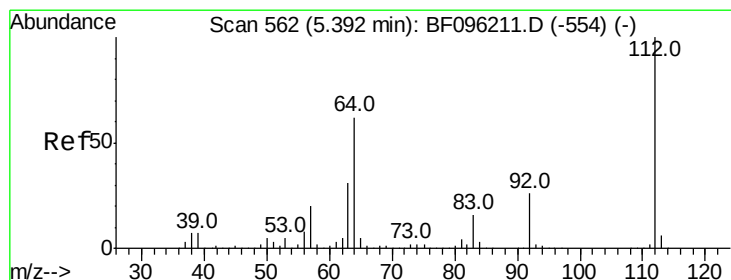
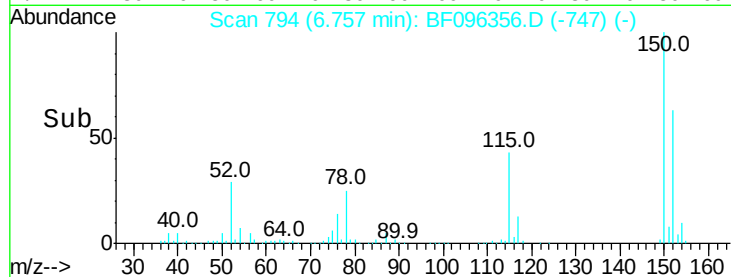
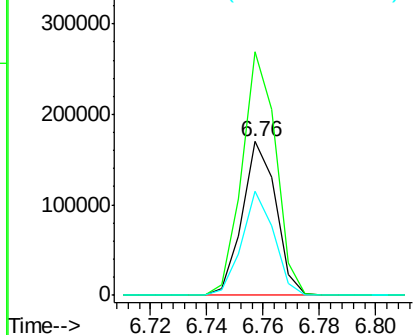


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

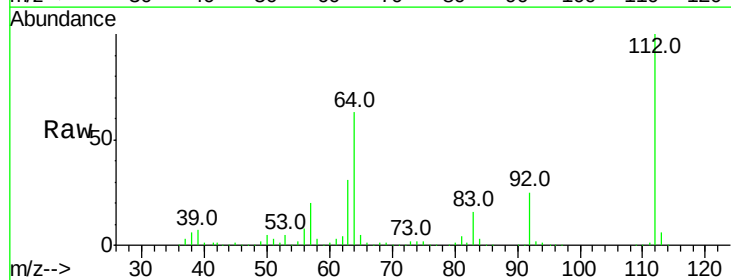
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 113.34 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.3	46.0	69.0
63	31.1	23.4	35.0

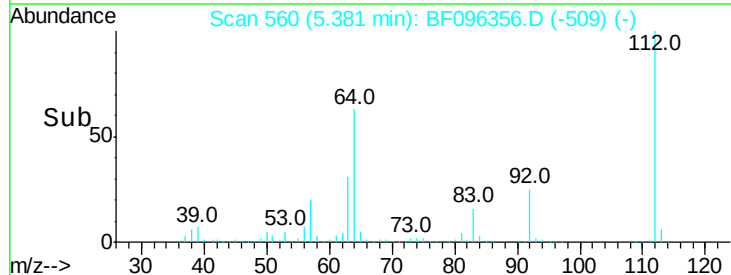
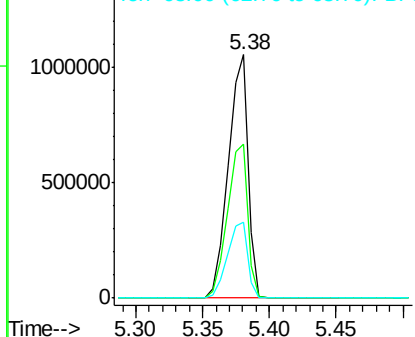


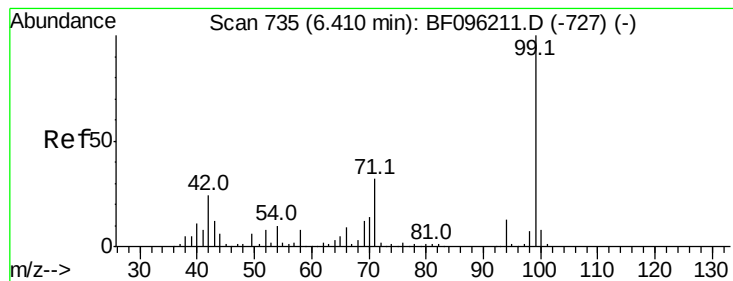
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 115.38 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.00 min

Lab File: BF096356.D

Acq: 1 Jul 2017 00:32

Instrument :

BNA_F

ClientSampleId :

B2-4-6

Tot Ion: 99 Resp: 1363460

Ion Ratio Lower Upper

99 100

42 21.8 13.5 20.3#

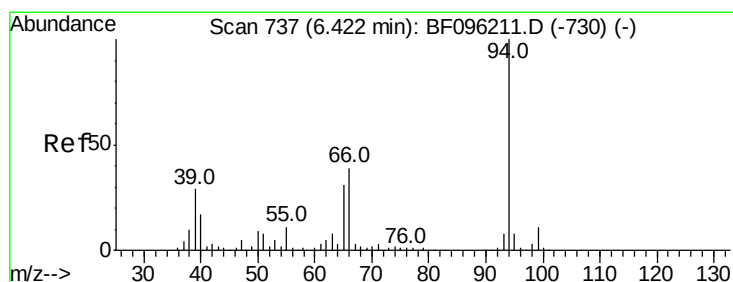
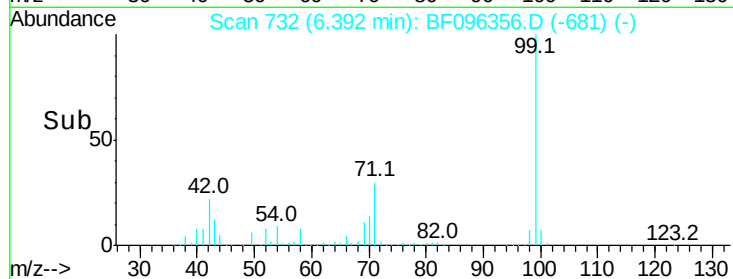
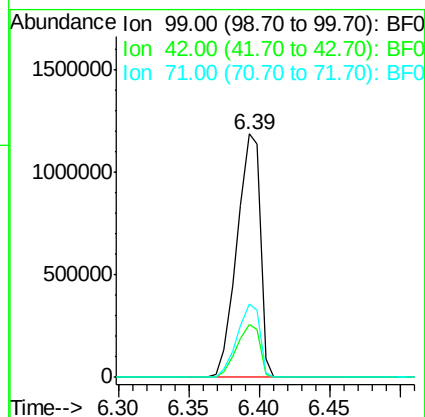
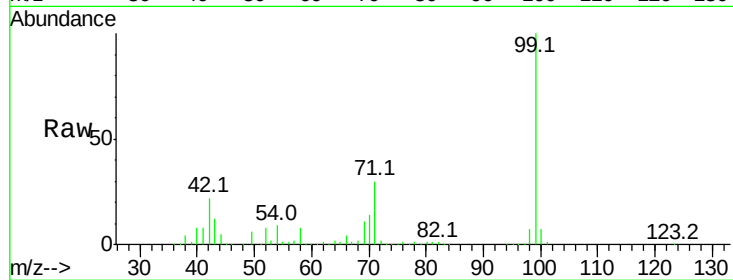
71 29.9 24.5 36.7

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#10

Phenol

Concen: 2.52 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.00 min

Lab File: BF096356.D

Acq: 1 Jul 2017 00:32

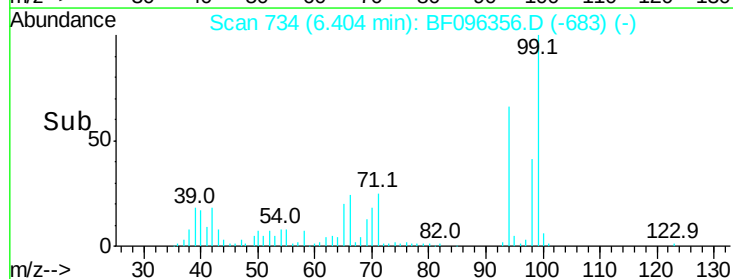
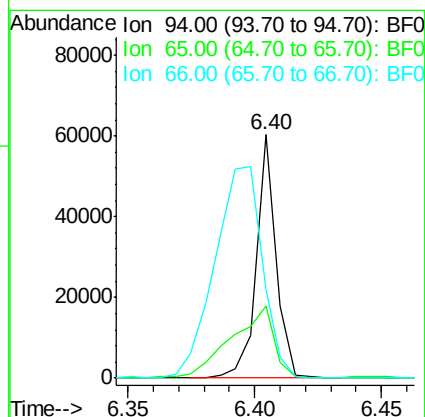
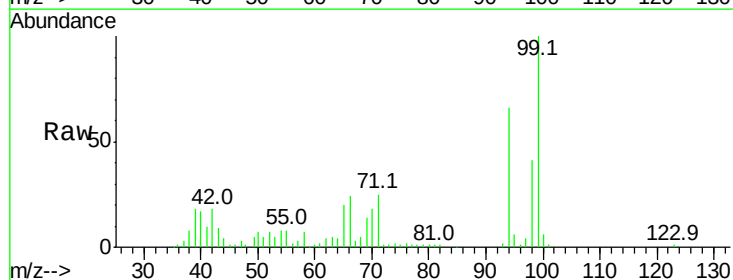
Tgt Ion: 94 Resp: 32773

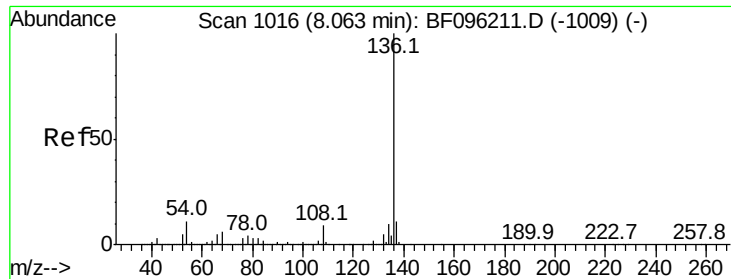
Ion Ratio Lower Upper

94 100

65 29.7 9.9 49.9

66 36.3 23.1 63.1





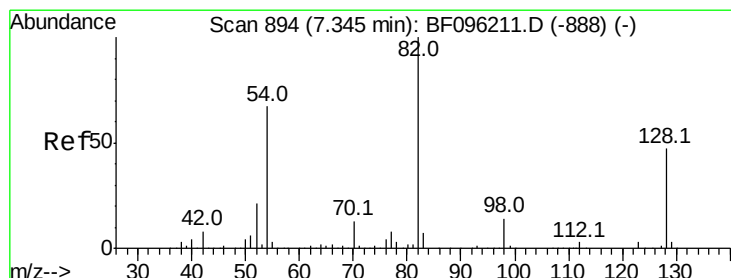
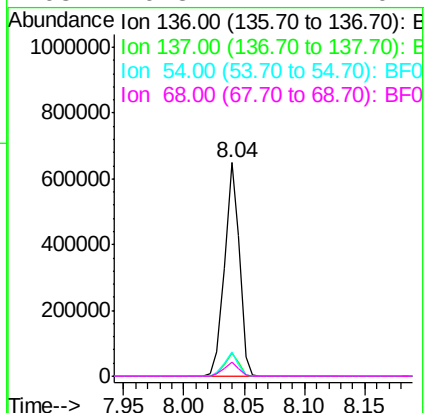
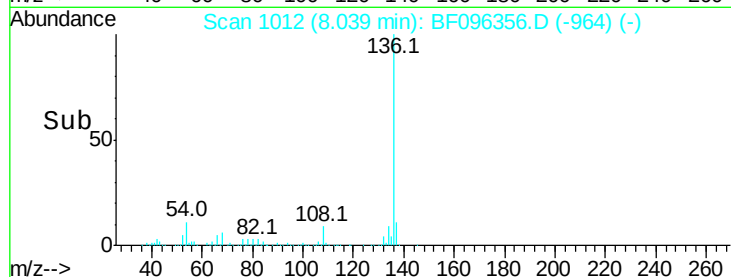
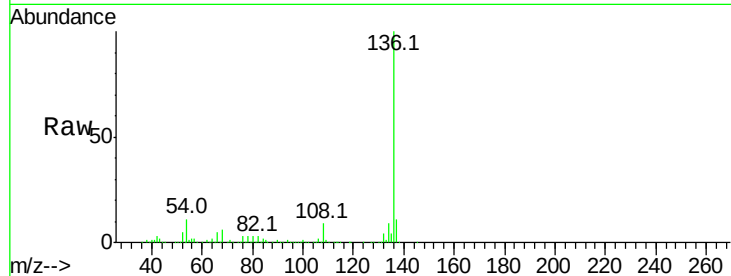
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.02 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampled :
B2-4-6

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.8	8.5	12.7	
54	11.2	4.9	7.3#	
68	6.3	4.1	6.1#	

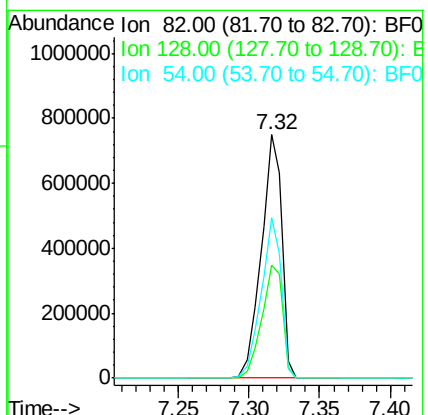
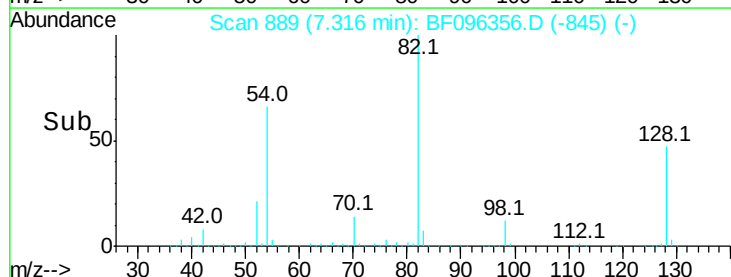
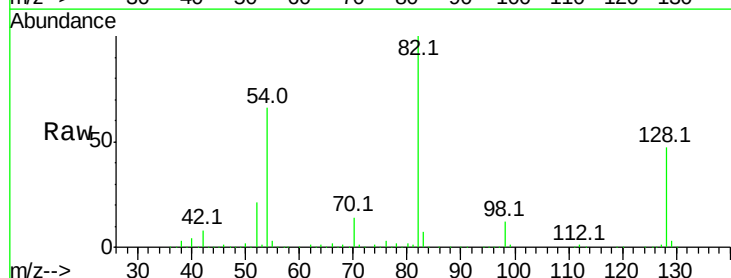
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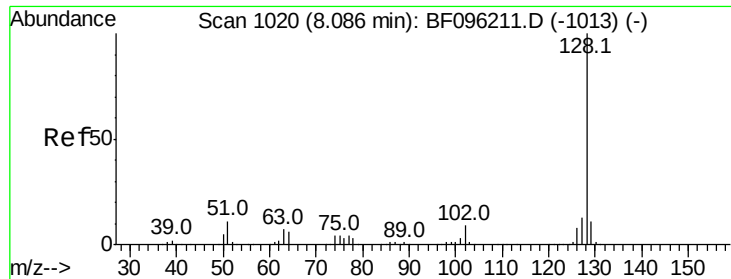
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#23
Nitrobenzene-d5
Concen: 97.27 ng
RT: 7.32 min Scan# 889
Delta R.T. -0.04 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.6	34.0	51.0	
54	65.9	42.2	63.2#	





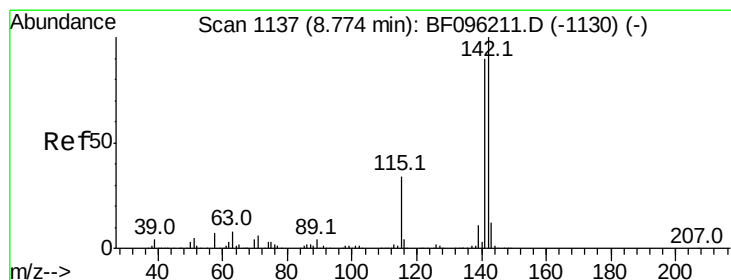
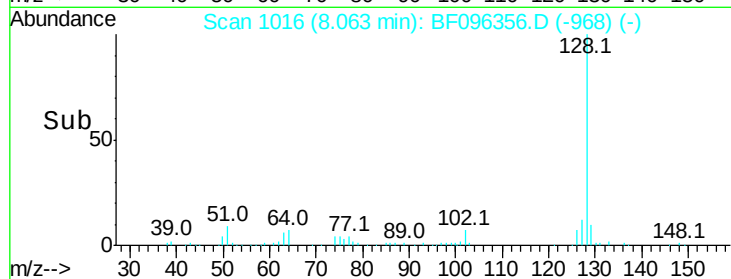
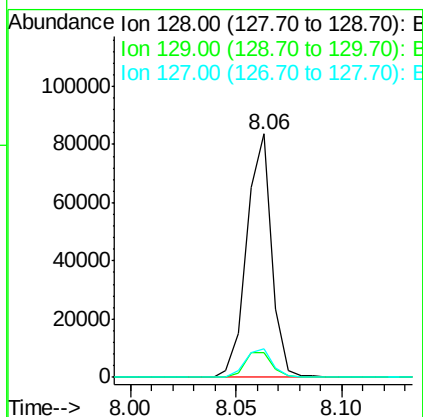
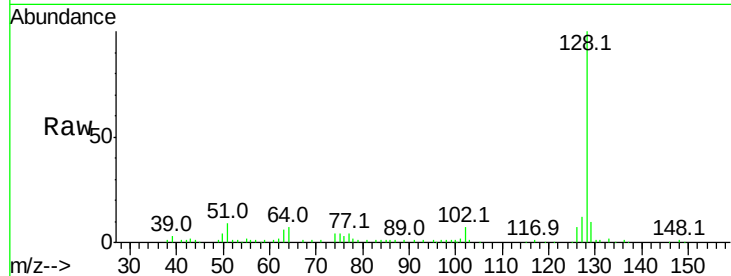
#31
Naphthalene
Concen: 2.57 ng
RT: 8.06 min Scan# 1016
Delta R.T. -0.02 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampled :
B2-4-6

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.3	9.0	13.6
127	11.6	10.8	16.2

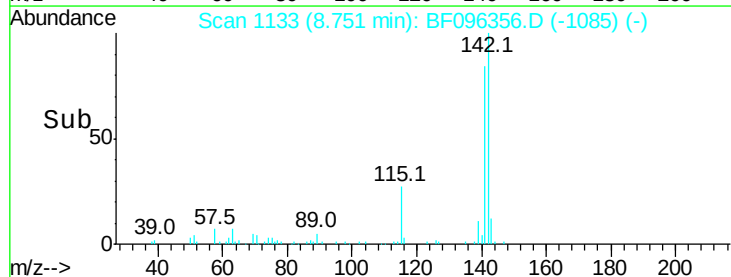
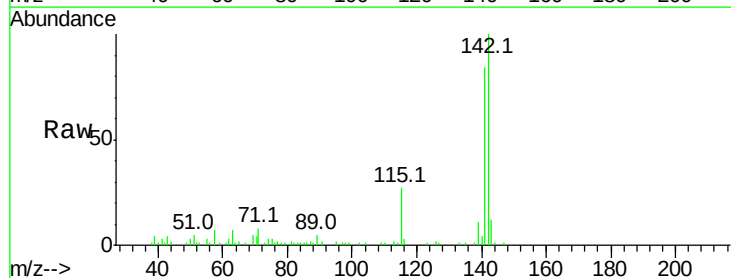
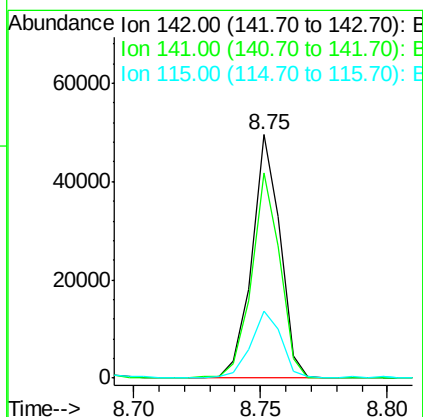
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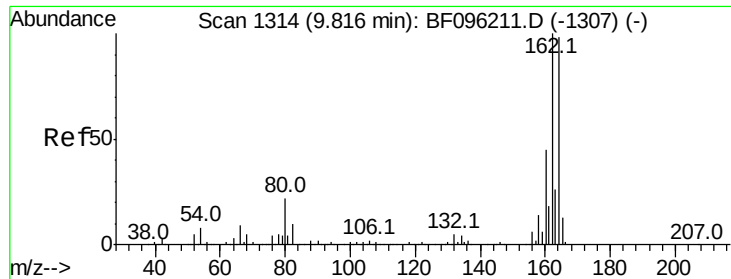
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#37
2-Methylnaphthalene
Concen: 2.24 ng
RT: 8.75 min Scan# 1133
Delta R.T. -0.02 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.3	71.3	106.9
115	27.4	27.1	40.7





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.02 min

Lab File: BF096356.D

Acq: 1 Jul 2017 00:32

Instrument :

BNA_F

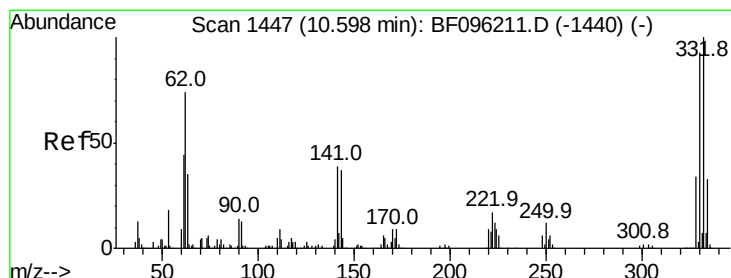
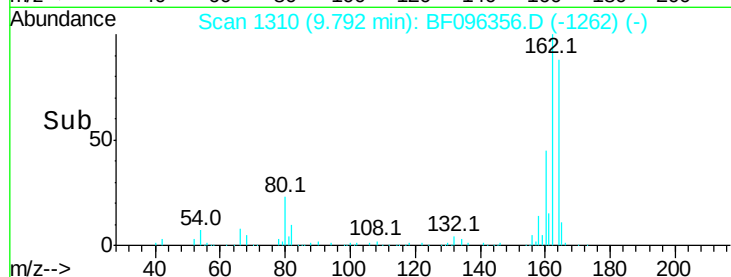
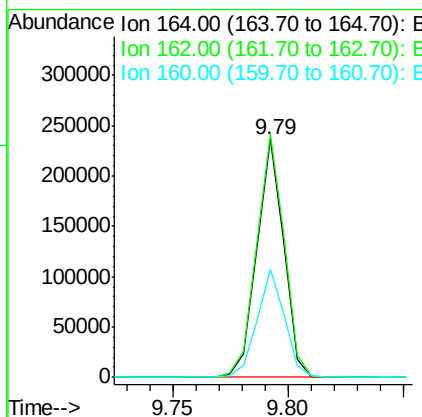
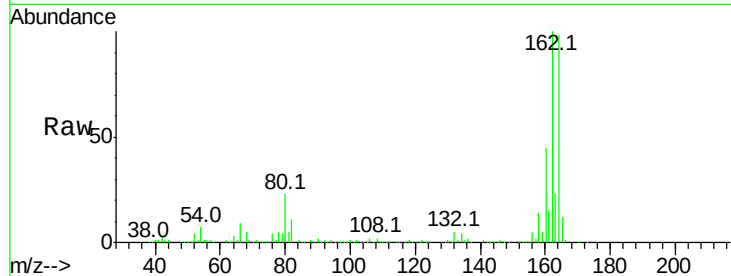
ClientSampleId :

B2-4-6

Tot Ion:	164	Resp:	192925
Ion Ratio	Lower	Upper	
164	100		
162	102.1	82.6	123.8
160	45.5	36.2	54.2

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#41

2,4,6-Tribromophenol

Concen: 140.94 ng

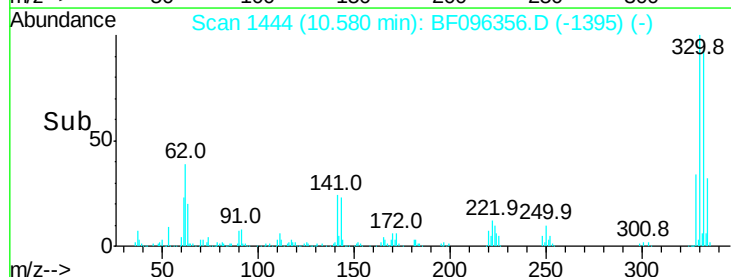
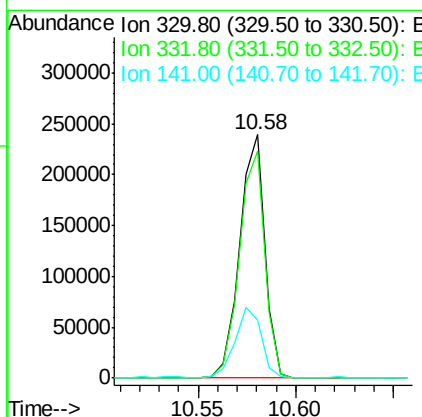
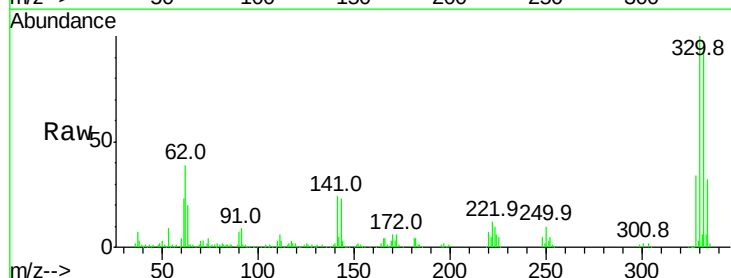
RT: 10.58 min Scan# 1444

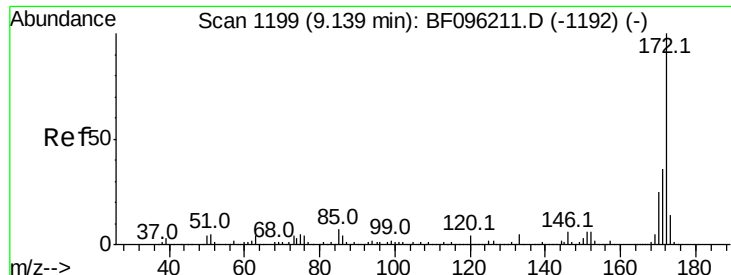
Delta R.T. -0.01 min

Lab File: BF096356.D

Acq: 1 Jul 2017 00:32

Tgt Ion:	330	Resp:	213993
Ion Ratio	Lower	Upper	
330	100		
332	94.3	76.6	115.0
141	29.5	31.4	47.2#





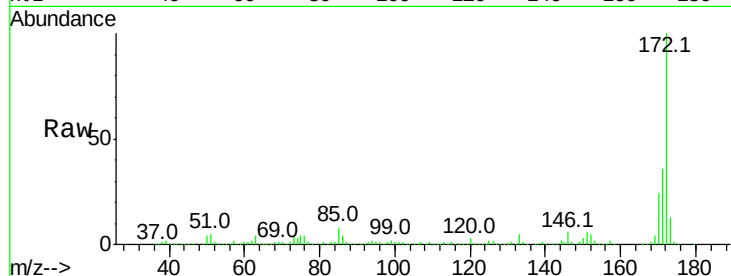
#44
2-Fluorobiphenyl
Concen: 91.34 ng
RT: 9.12 min Scan# 1195
Delta R.T. -0.03 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampleId :
B2-4-6

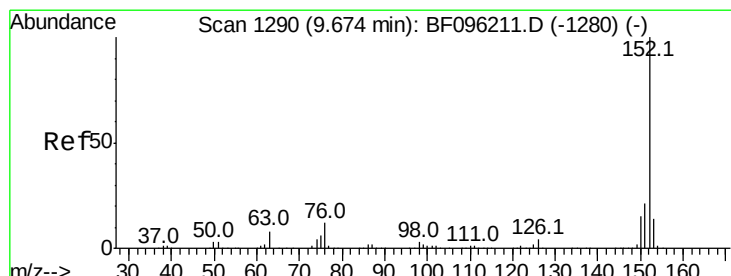
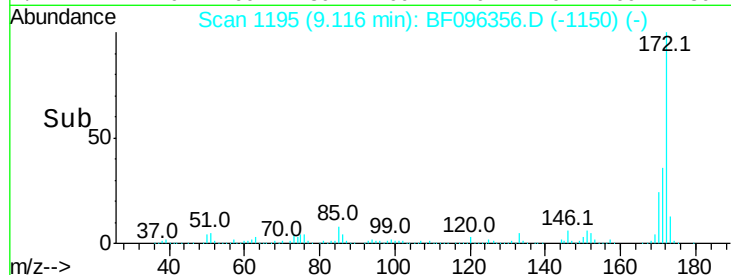
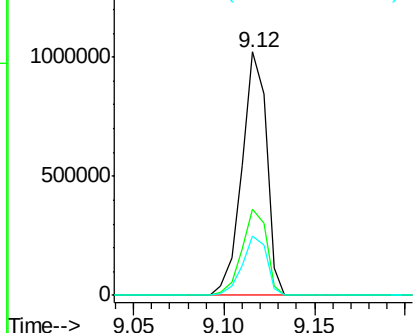
Tot Ion	Ratio	Resp	Lower	Upper
172	100	962196		
171	35.6		29.6	44.4
170	24.1		19.8	29.8

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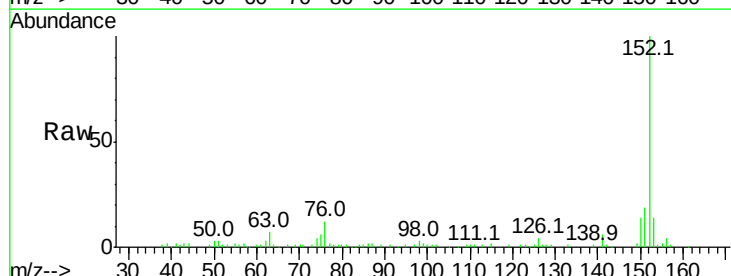


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

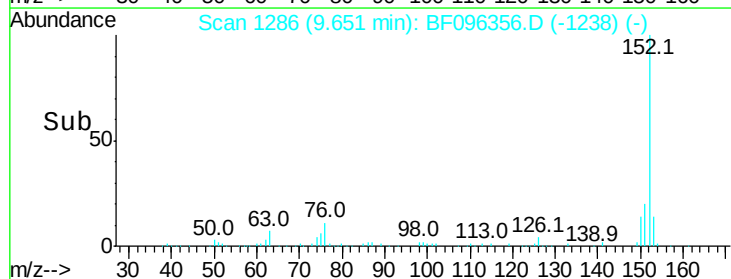
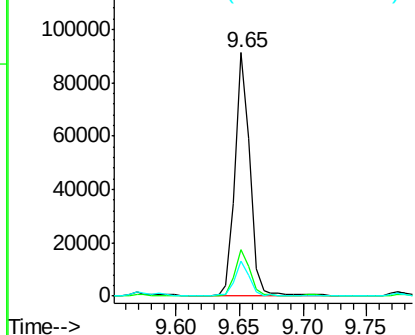


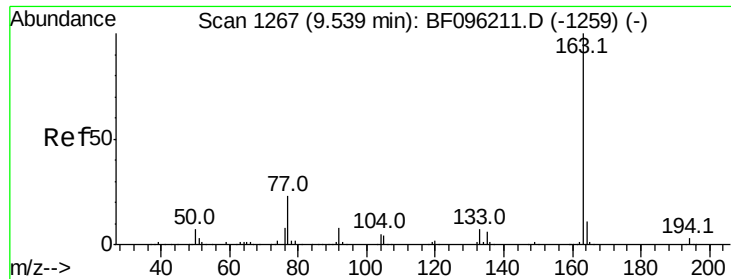
#48
Acenaphthylene
Concen: 3.62 ng
RT: 9.65 min Scan# 1286
Delta R.T. -0.02 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	73722		
151	19.4		16.8	25.2
153	14.1		10.8	16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





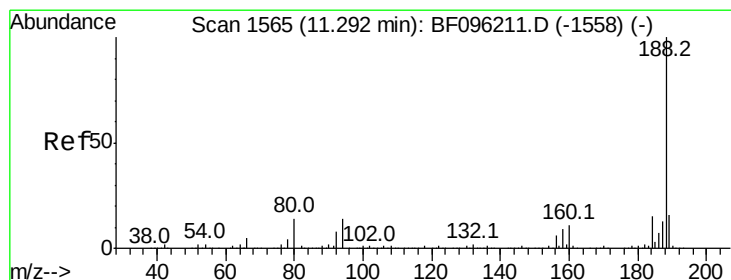
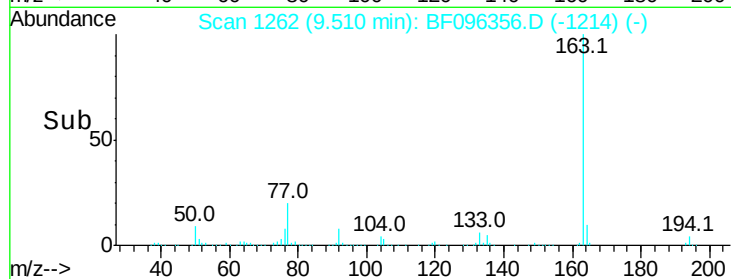
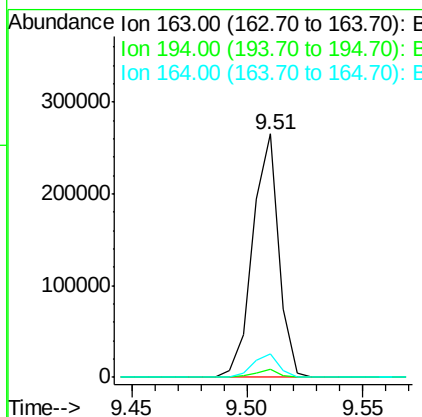
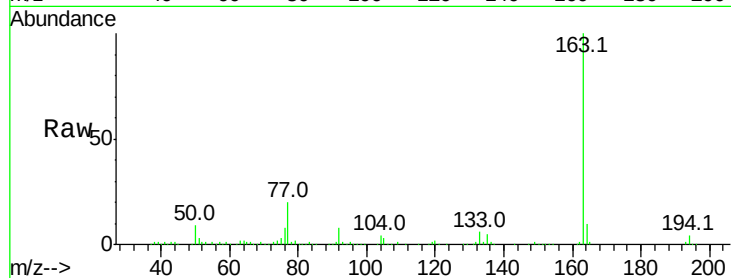
#49
Dimethylphthalate
Concen: 15.19 ng
RT: 9.51 min Scan# 1262
Delta R.T. -0.02 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampleId :
B2-4-6

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.5	2.6	4.0	
164	9.8	8.4	12.6	

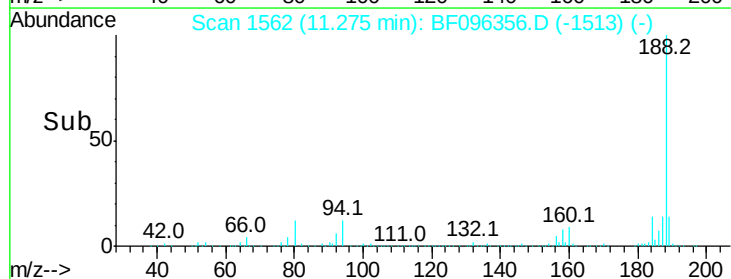
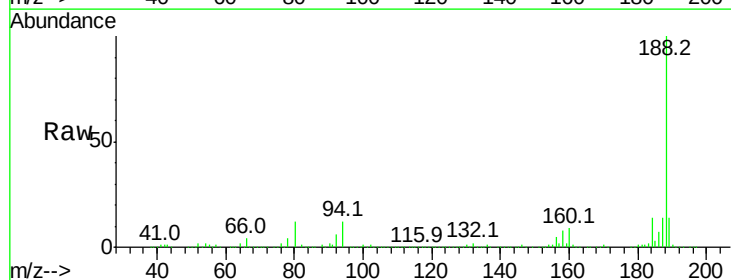
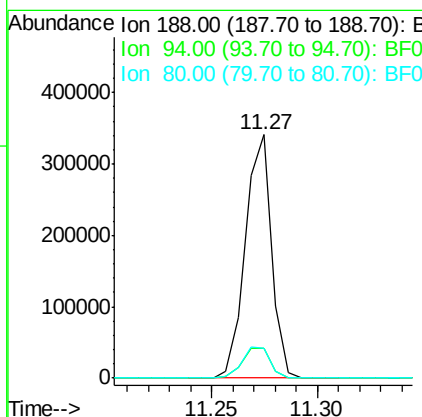
Manual Integrations
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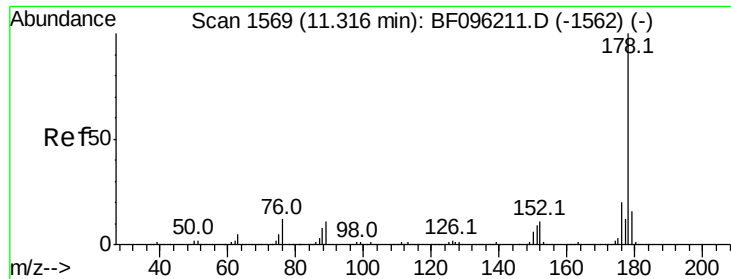
mohammad
7/3/2017 11:37:35 AM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	12.3	9.4	14.2	
80	12.2	10.2	15.2	





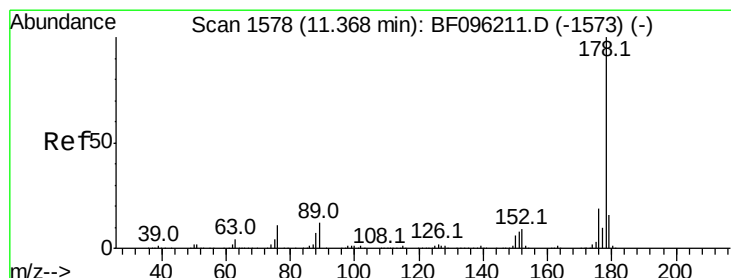
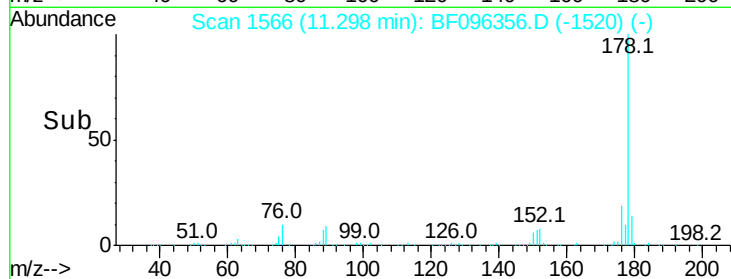
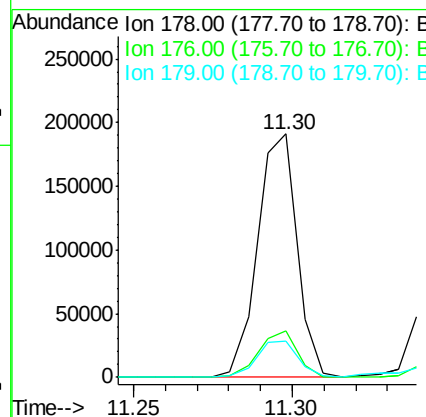
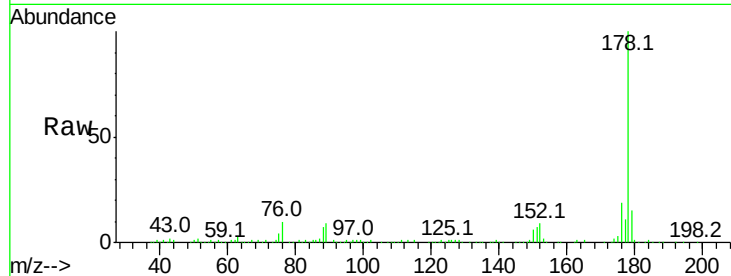
#70
Phenanthrene
Concen: 4.35 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.03 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampled :
B2-4-6

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.2	24.4
179	14.8	12.6	19.0

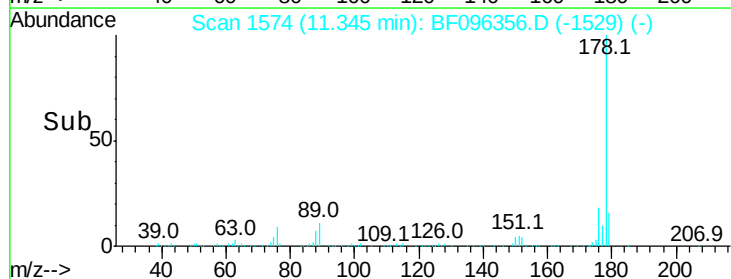
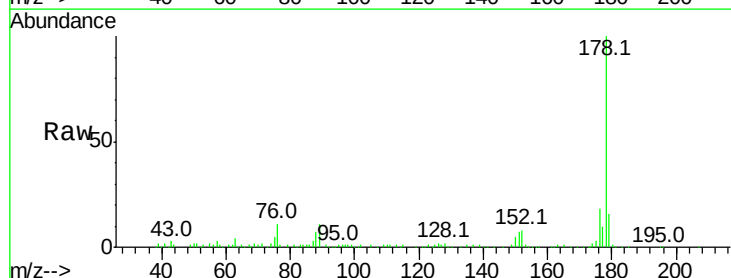
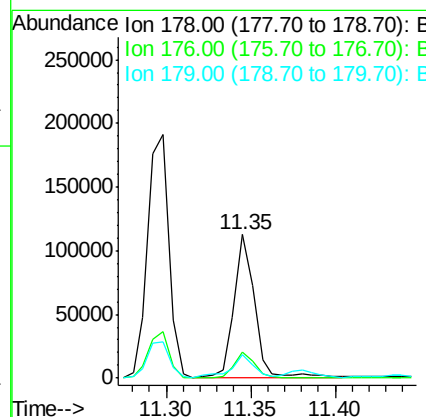
Manual Integrations
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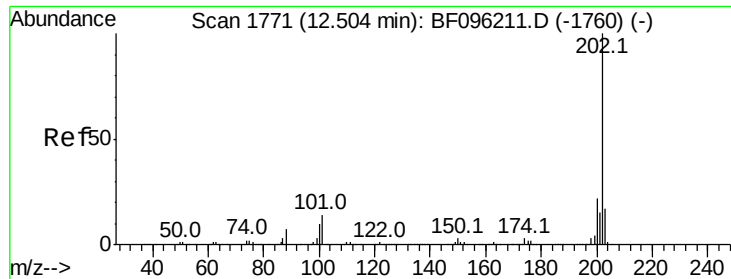
mohammad
7/3/2017 11:37:35 AM



#71
Anthracene
Concen: 5.76 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.04 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.8	23.8
179	16.2	12.7	19.1





#74

Fluoranthene

Concen: 20.01 ng

RT: 12.48 min Scan# 1767

Delta R.T. -0.01 min

Lab File: BF096356.D

Acq: 1 Jul 2017 00:32

Instrument :

BNA_F

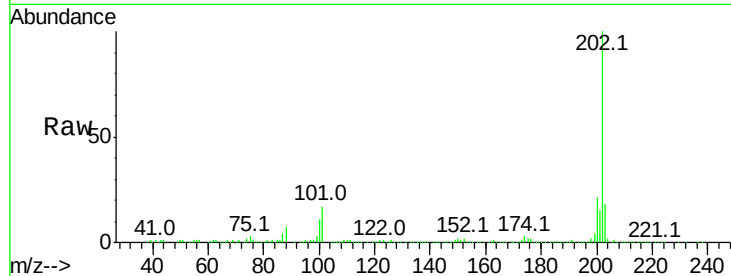
ClientSampled :

B2-4-6

Tot Ion	Ratio	Resp	Lower	Upper
202	100	325776		
101	16.5	0.0	33.2	
203	17.9	0.0	38.1	

Manual Integrations
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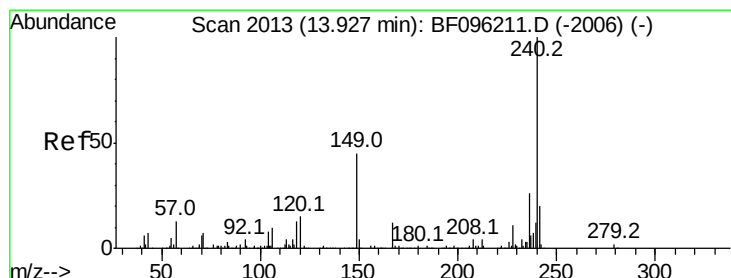
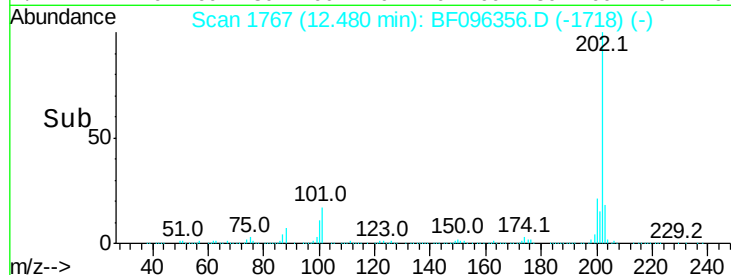
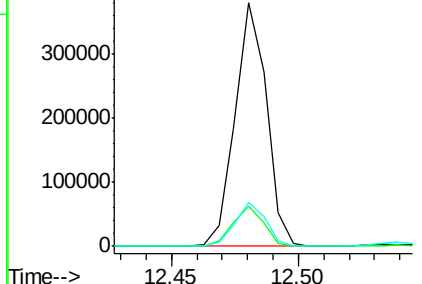
mohammad
7/3/2017 11:37:35 AM



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

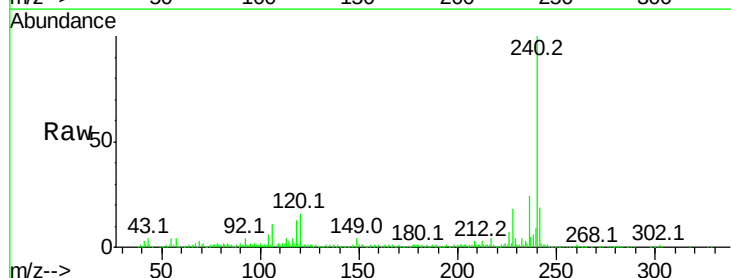
RT: 13.90 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF096356.D

Acq: 1 Jul 2017 00:32

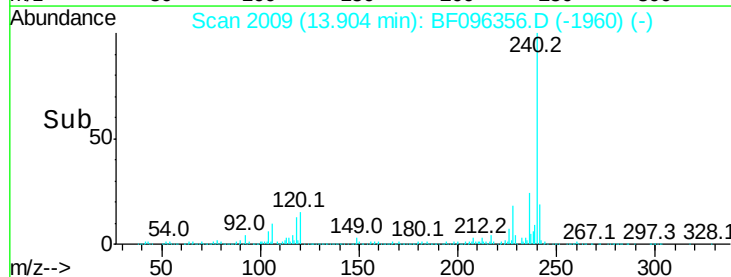
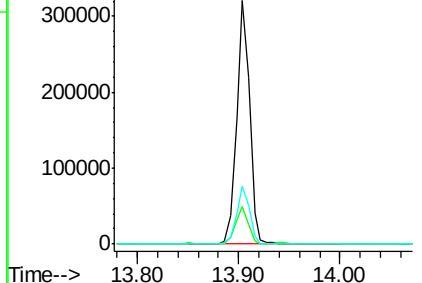
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	285403		
120	15.6	5.8	8.8#	
236	23.8	20.5	30.7	

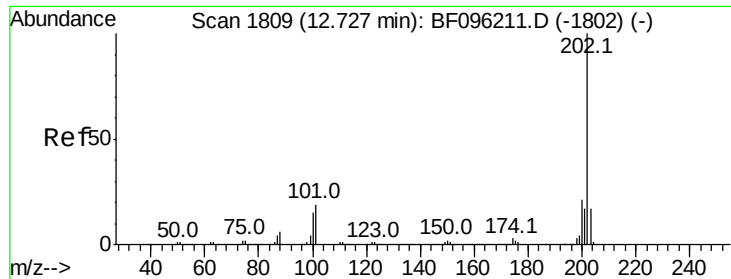


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





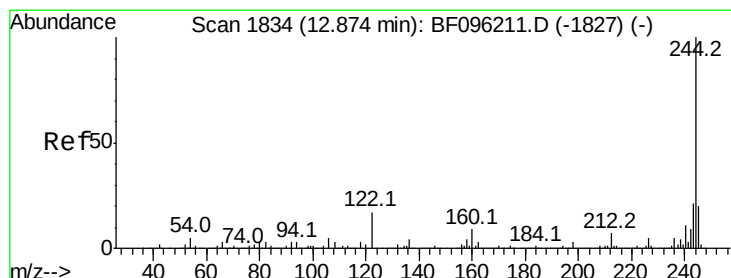
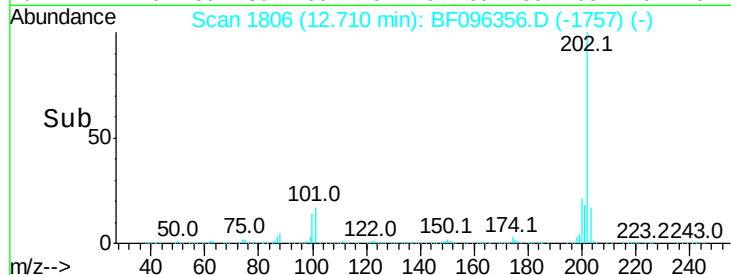
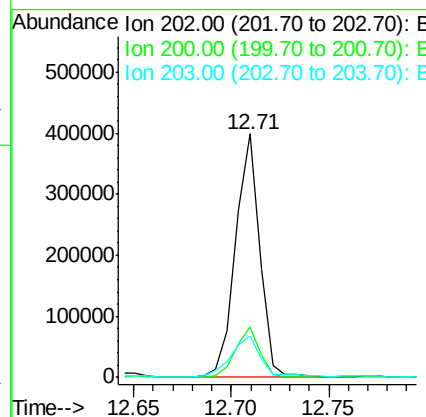
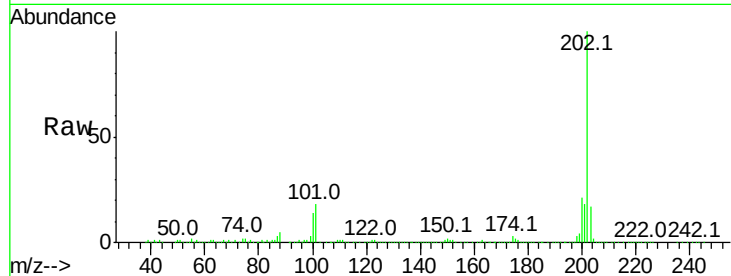
#77
Pvrene
Concen: 14.53 ng
RT: 12.71 min Scan# 1806
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampled :
B2-4-6

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.6	26.4
203	17.3	14.4	21.6

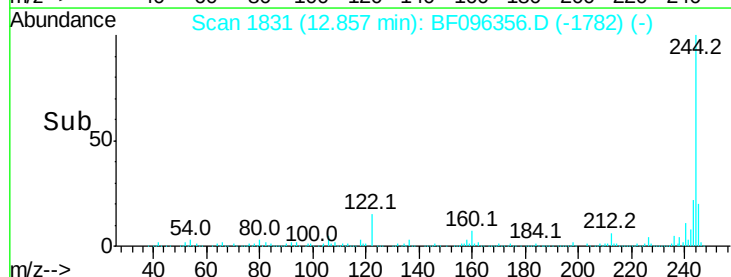
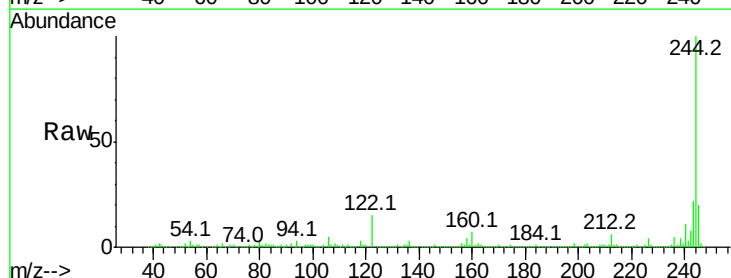
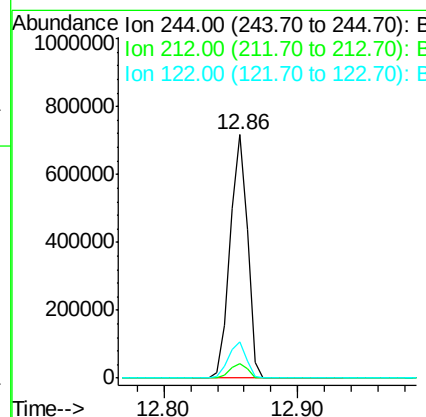
Manual Integrations
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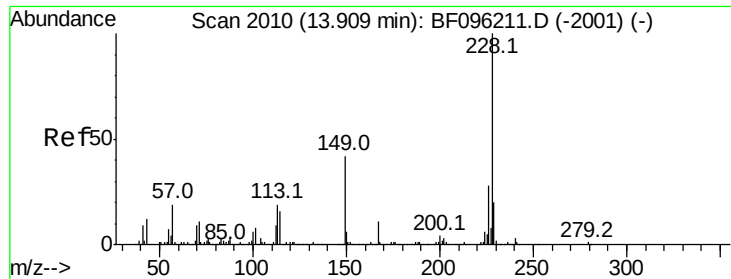
mohammad
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#78
Terphenyl-d14
Concen: 58.26 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.1	6.0	9.0
122	14.8	10.3	15.5





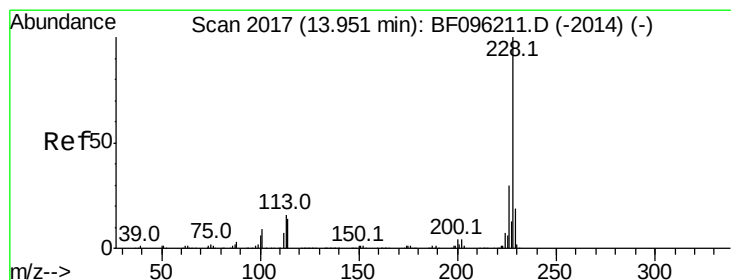
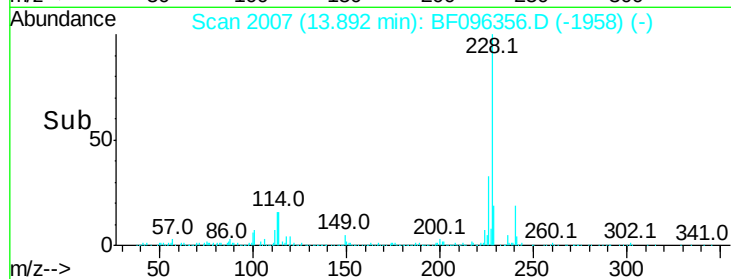
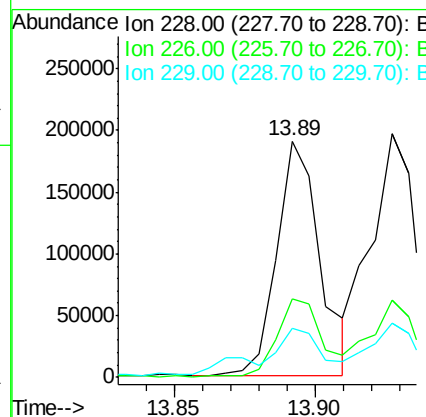
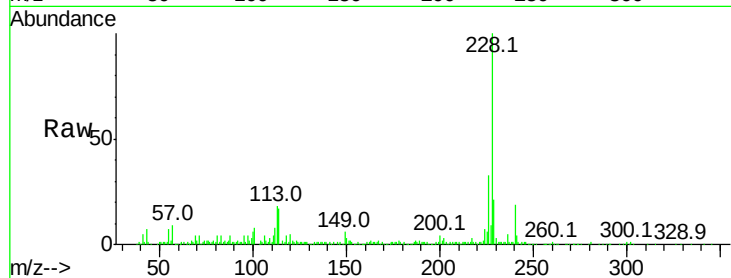
#80
Benzo(a)anthracene
Concen: 11.60 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampled :
B2-4-6

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.1	22.6	33.8
229	20.6	16.3	24.5

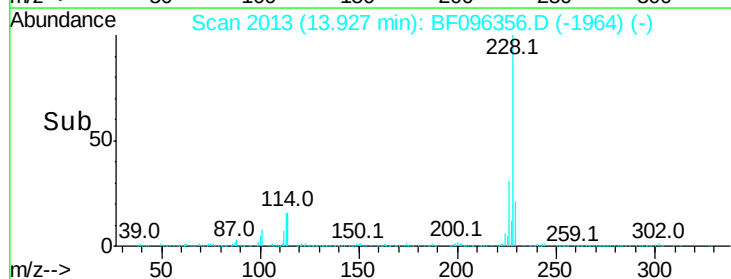
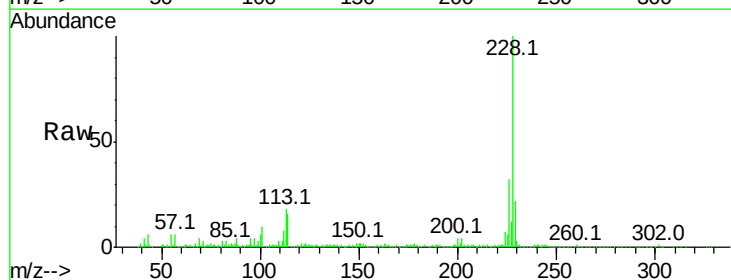
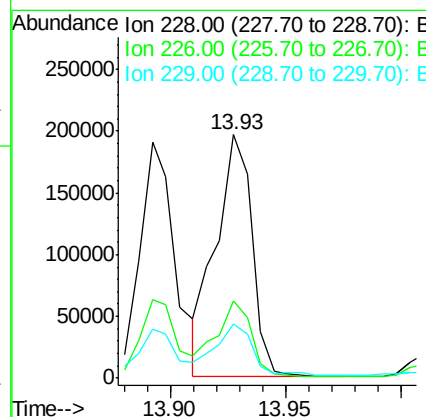
Manual Integrations
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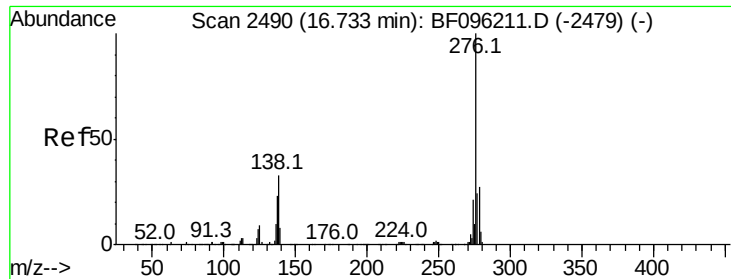
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#82
Chrysene
Concen: 11.82 ng
RT: 13.93 min Scan# 2013
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.9	37.3
229	22.3	15.8	23.6





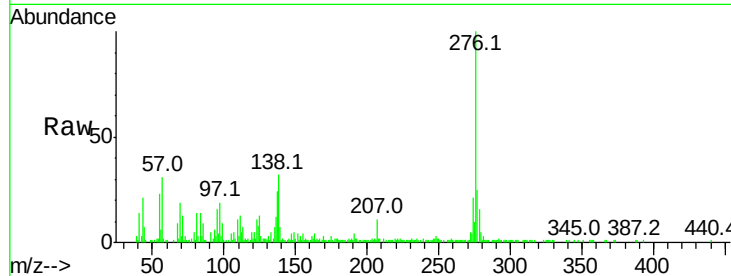
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.01 ng
RT: 16.70 min Scan# 2485
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampleId :
B2-4-6

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.7	27.8	41.6
277	24.6	20.2	30.4

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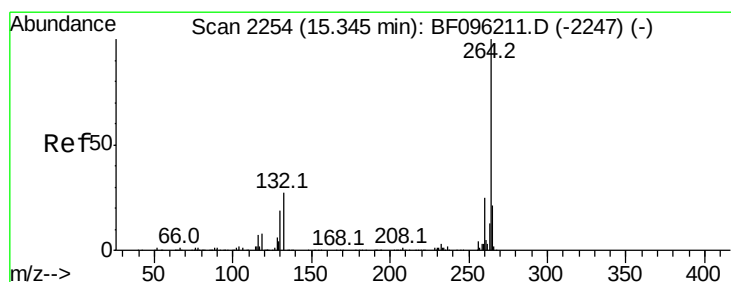
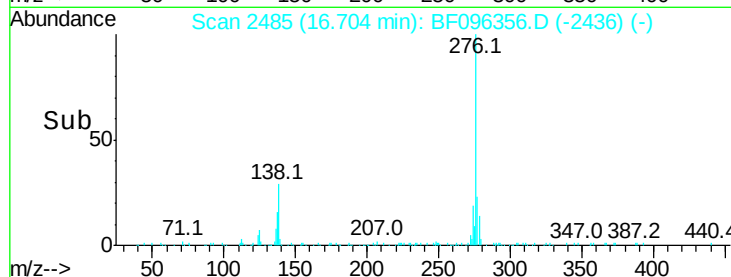
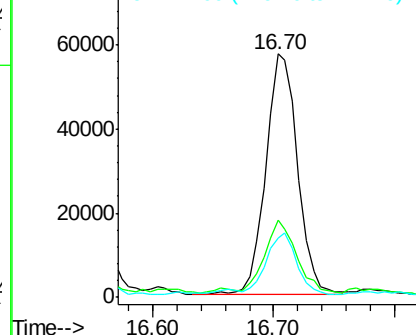


Abundance

Ion 276.00 (275.70 to 276.70): E

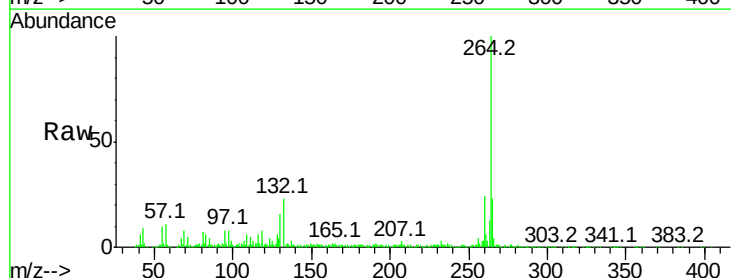
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 2251
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	22.7	17.2	25.8

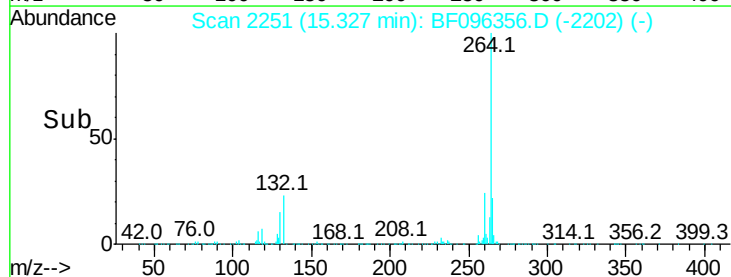
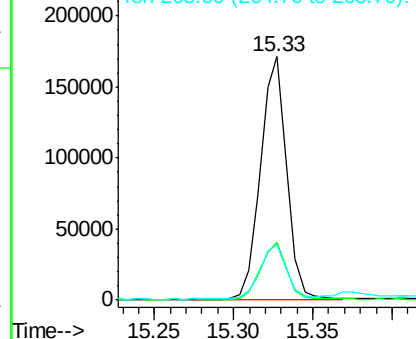


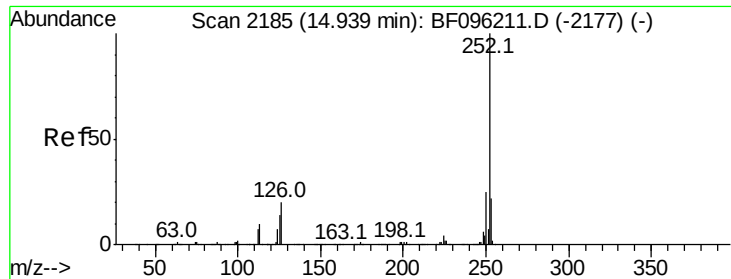
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





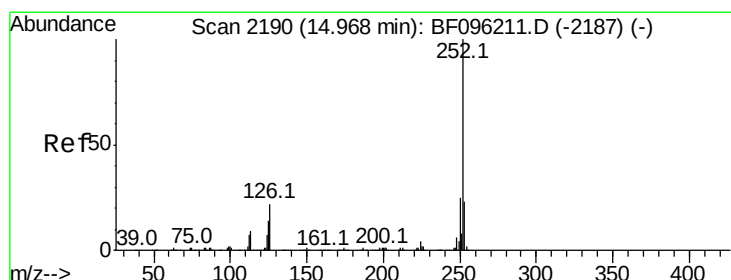
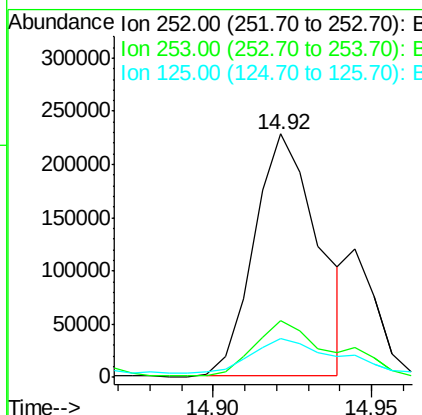
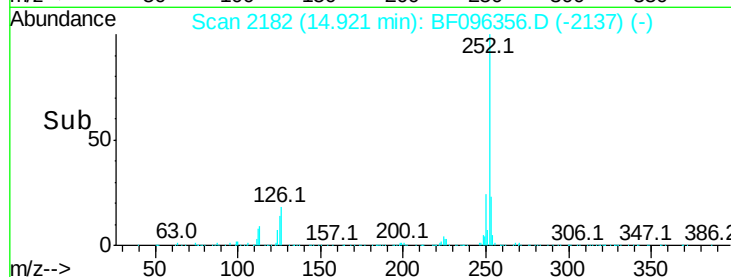
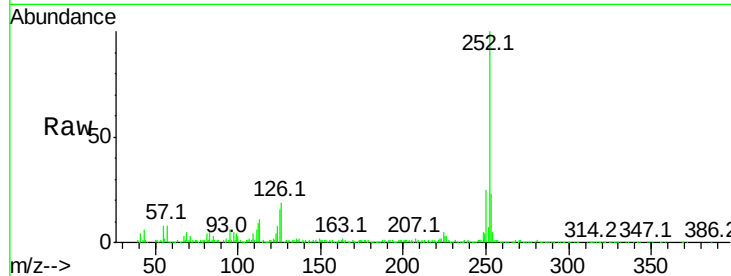
#87
Benzo(b)fluoranthene
Concen: 24.83 ng m
RT: 14.92 min Scan# 2182
Delta R.T. -0.04 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampleId :
B2-4-6

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	16.1	9.8	14.8

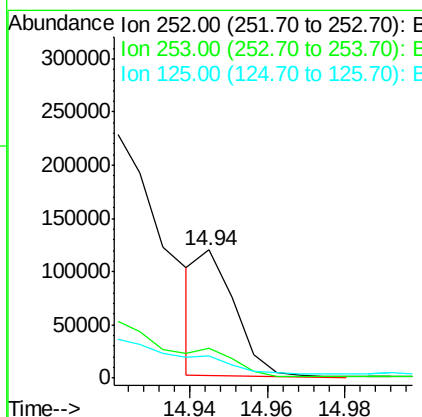
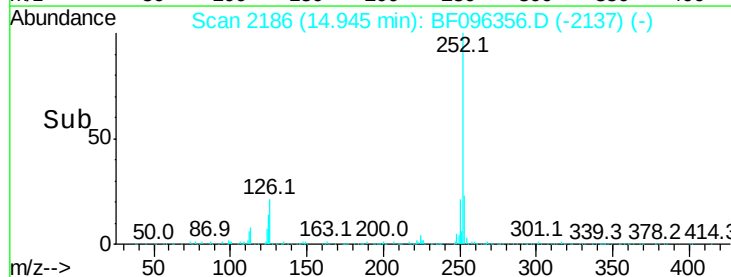
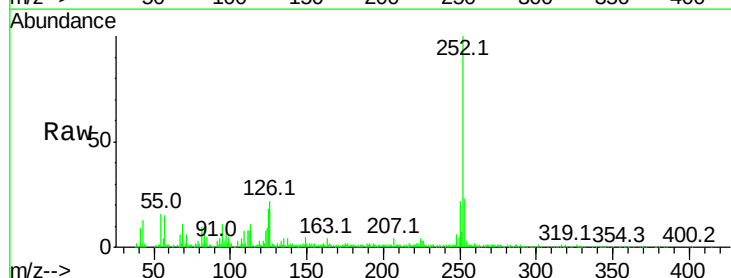
Manual Integrations
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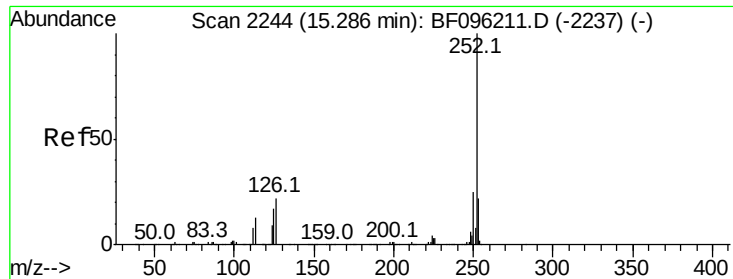
mohammad
7/3/2017 11:37:35 AM



#88
Benzo(k)fluoranthene
Concen: 6.58 ng m
RT: 14.94 min Scan# 2186
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	17.8	13.1	19.7





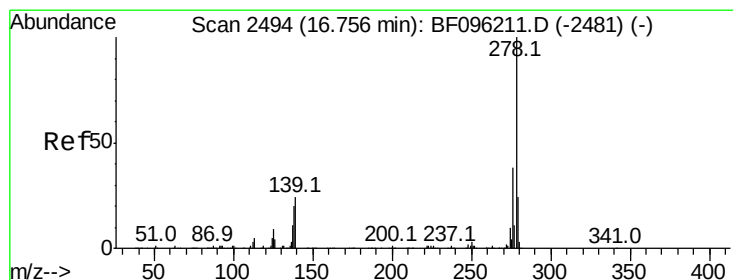
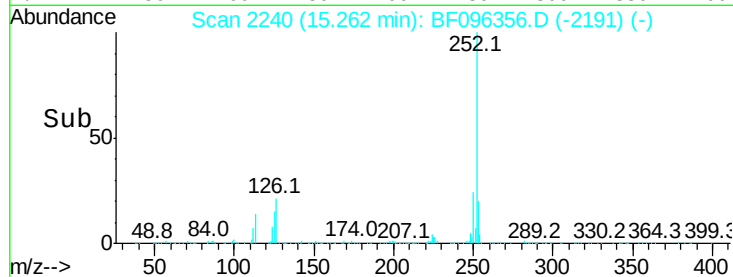
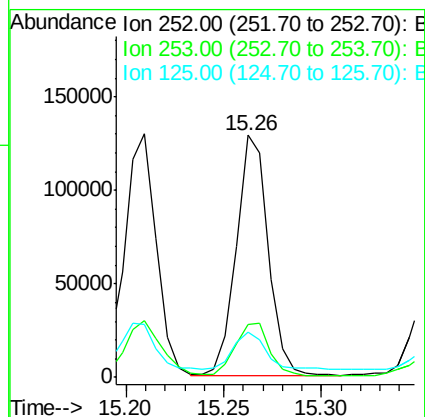
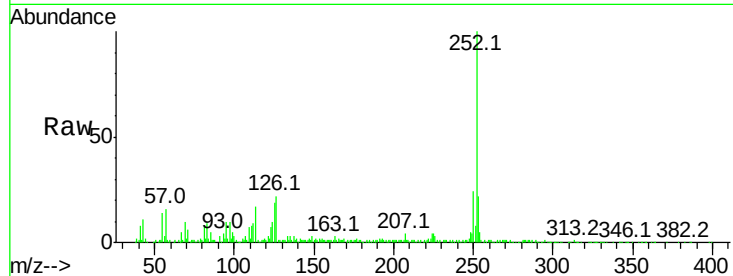
#89
Benzo(a)pyrene
Concen: 12.70 ng
RT: 15.26 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Instrument :
BNA_F
ClientSampleId :
B2-4-6

Tot Ion	Ratio	Resp	Lower	Upper
252	100	144962		
253	21.7		17.5	26.3
125	18.6		11.0	16.4

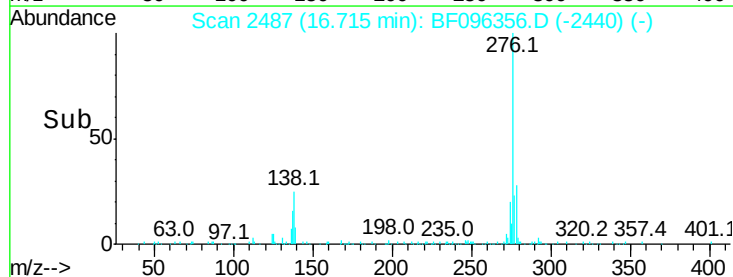
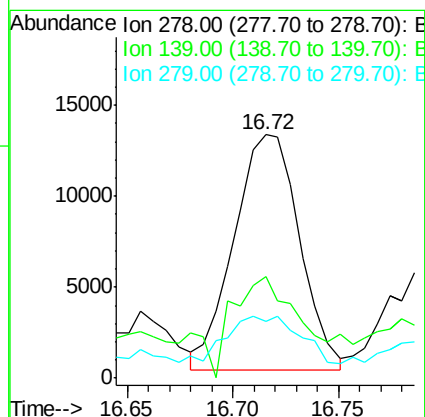
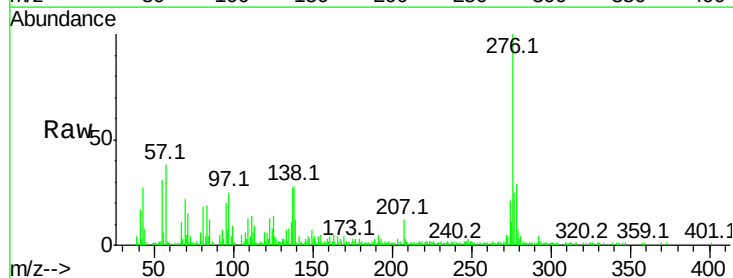
Manual Integrations
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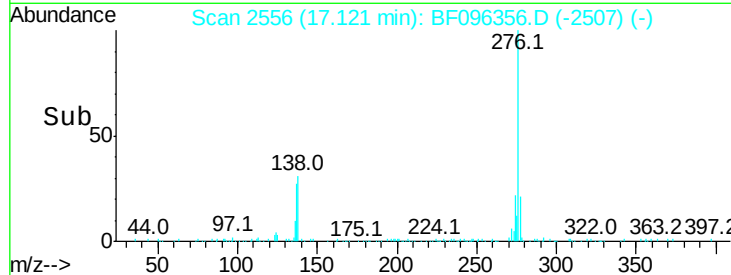
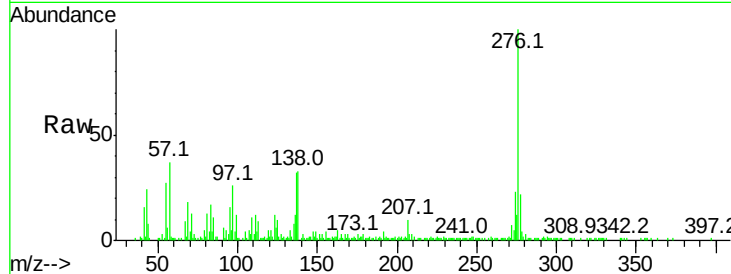
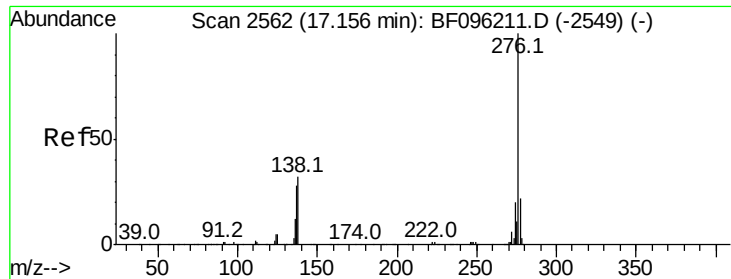
mohammad
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#90
Dibenzo(a,h)anthracene
Concen: 3.12 ng
RT: 16.72 min Scan# 2487
Delta R.T. -0.02 min
Lab File: BF096356.D
Acq: 1 Jul 2017 00:32

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	27875		
139	41.7		16.6	24.8
279	23.1		19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 10.44 ng
 RT: 17.12 min Scan# 2556
 Delta R.T. -0.01 min
 Lab File: BF096356.D
 Acq: 1 Jul 2017 00:32

Instrument :
 BNA_F
 ClientSampleId :
 B2-4-6

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.2	18.6	28.0
138	32.7	25.4	38.0

Manual Integrations
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 7/3/2017 11:37:35 AM

