

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
 Data File : BF106664.D
 Acq On : 21 Jun 2018 16:20
 Operator : JU/SJ
 Sample : J3524-03 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3(D)

Manual Integrations
 APPROVED

Sohil
 6/22/2018 10:23:04 AM

Quant Time: Jun 21 16:58:48 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 19 14:32:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	92902	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	359591	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	168059	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	282338	20.00	ng	0.00
75) Chrysene-d12	14.15	240	231809	20.00	ng	0.00
86) Perylene-d12	15.71	264	186053	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	51671	9.42	ng	0.00
7) Phenol-d6	6.60	99	66038	9.64	ng	-0.01
23) Nitrobenzene-d5	7.52	82	39006	6.03	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	14034	7.20	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	75946	6.90	ng	-0.01
78) Terphenyl-d14	13.08	244	71412	7.46	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	914361	54.388	ng	99
37) 2-Methylnaphthalene	8.96	142	549640	49.324	ng	96
45) 1,1'-Biphenyl	9.42	154	68124	5.086	ng	97
48) Acenaphthylene	9.87	152	116252	6.984	ng	# 95
51) Acenaphthene	10.04	154	200207	19.101	ng	98
54) Dibenzofuran	10.21	168	121511	8.466	ng	95
57) Fluorene	10.55	166	338904	29.757	ng	99
70) Phenanthrene	11.52	178	1145007	84.082	ng	98
71) Anthracene	11.57	178	334527	24.067	ng	99
72) Carbazole	11.72	167	39384	3.026	ng	97
74) Fluoranthene	12.72	202	782258	52.118	ng	96
77) Pyrene	12.95	202	979405	64.071	ng	99
80) Benzo(a)anthracene	14.14	228	436841m	30.920	ng	
82) Chrysene	14.18	228	399305	30.721	ng	98
85) Indeno(1,2,3-cd)pyrene	17.27	276	117114m	10.618	ng	
87) Benzo(b)fluoranthene	15.25	252	295571m	25.574	ng	
88) Benzo(k)fluoranthene	15.27	252	95633m	8.689	ng	
89) Benzo(a)pyrene	15.64	252	272495m	26.522	ng	
90) Dibenzo(a,h)anthracene	17.28	278	34548	3.968	ng	# 89
91) Benzo(a,h,i)perylene	17.75	276	120901	14.206	ng	# 91

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

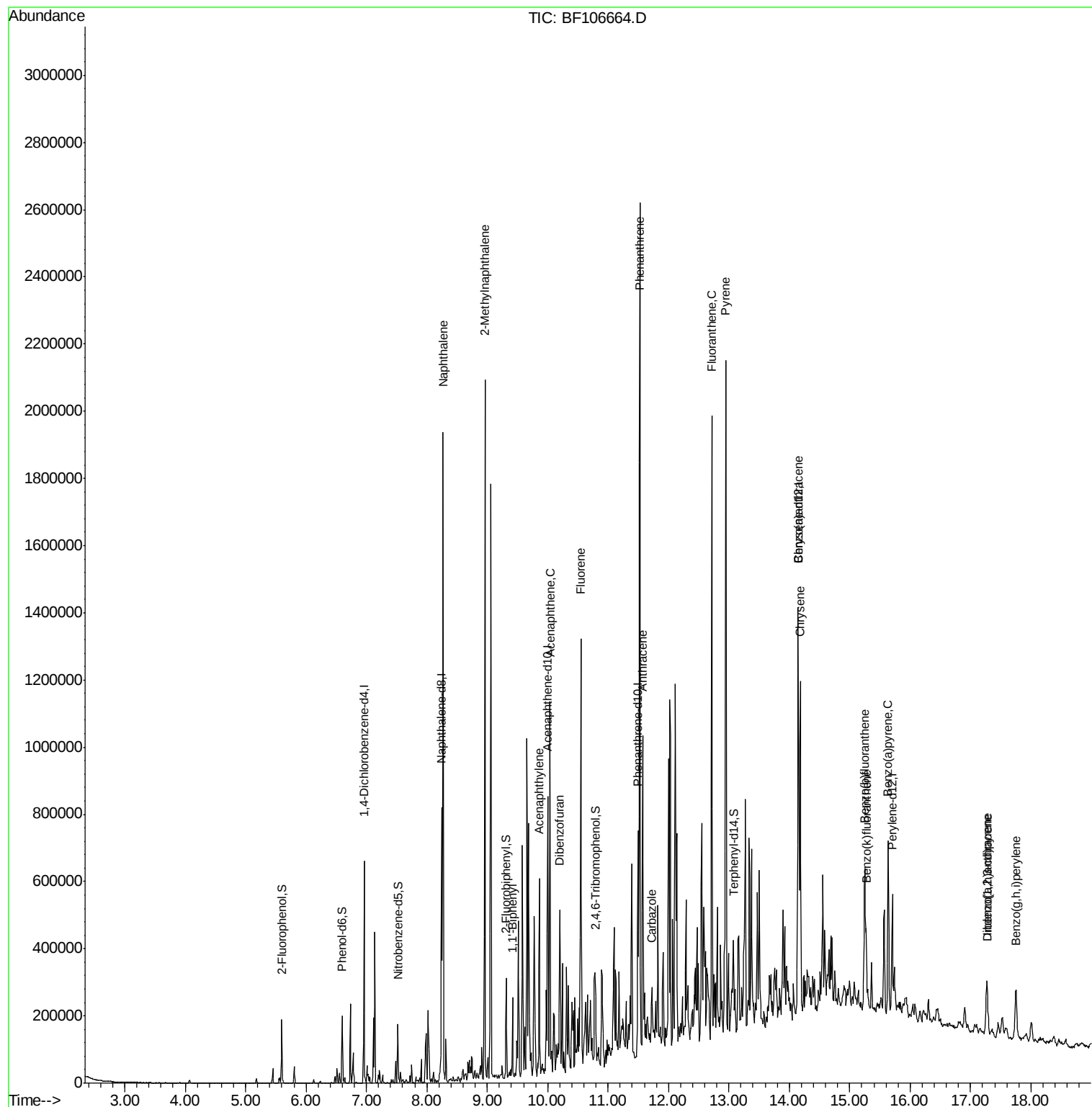
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\
Data File : BF106664.D
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Sample : J3524-03 5X
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ALS Vial : 15 Sample Multiplier: 1

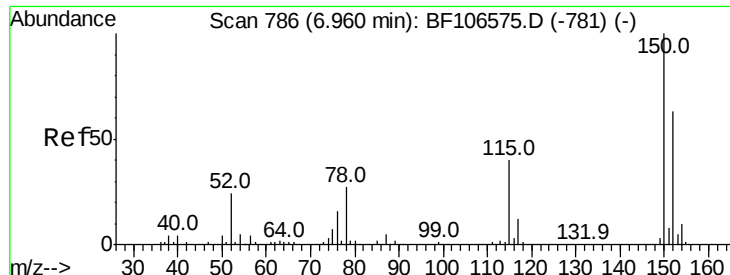
Instrument :
BNA_F
ClientSampleId :
AREA-3(D)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

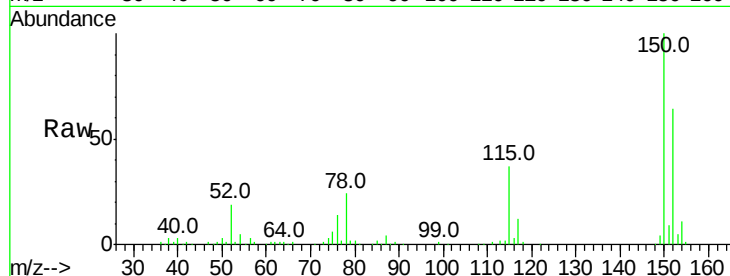
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Instrument :
BNA_F
ClientSampled :
AREA-3(D)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	124.6	186.8
115	58.3	50.1	75.1

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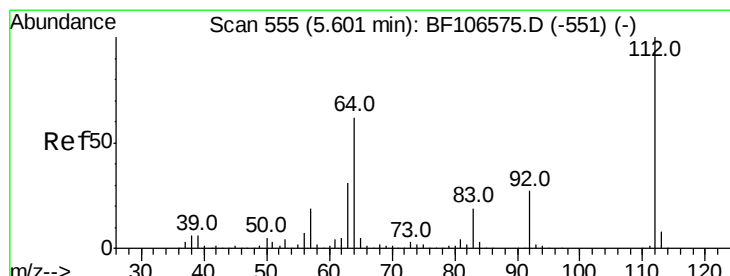
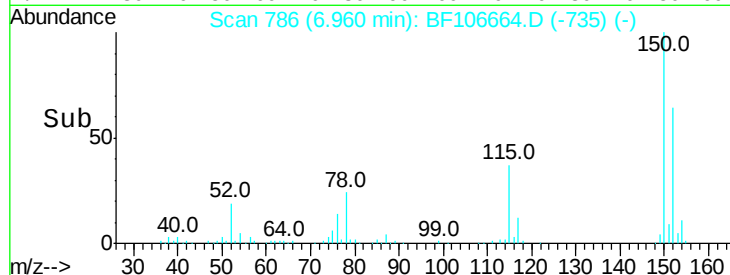
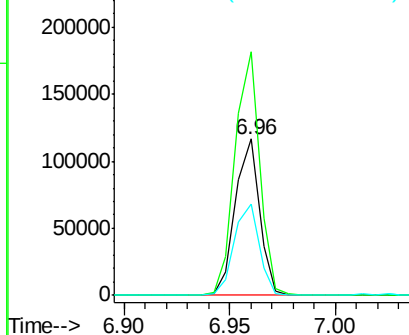


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

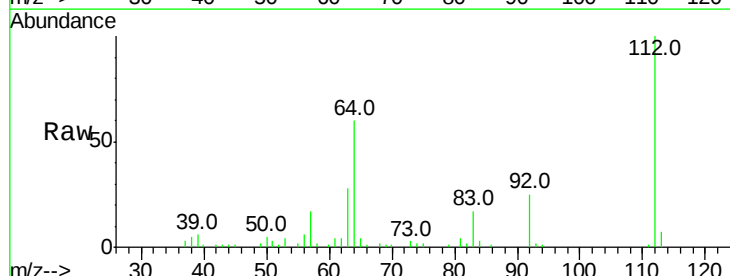
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 9.418 ng
RT: 5.60 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.8	47.9	71.9
63	27.9	23.7	35.5

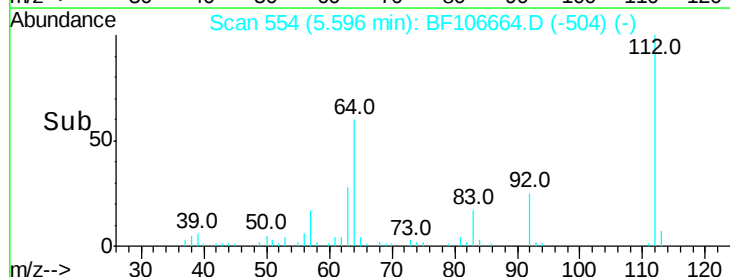
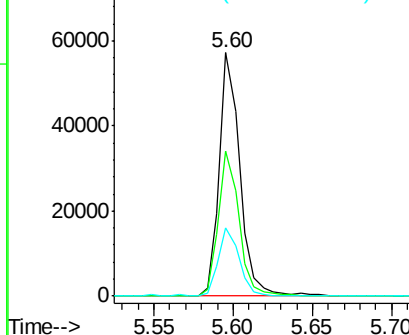


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 9.639 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA_F

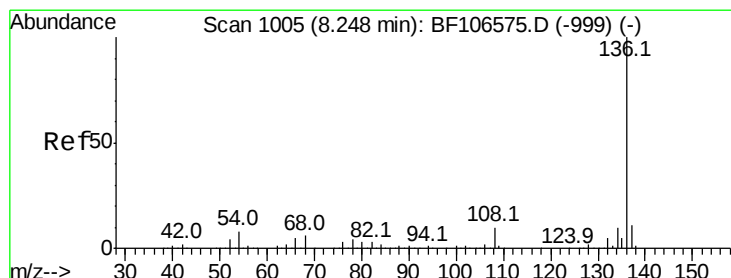
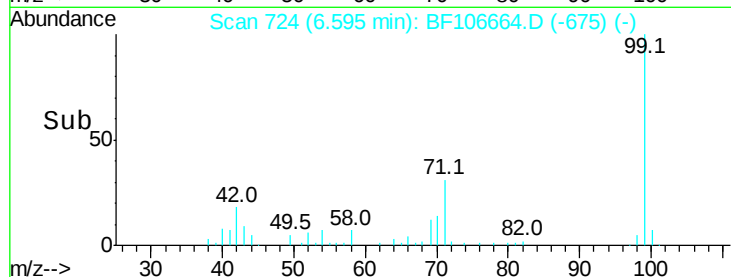
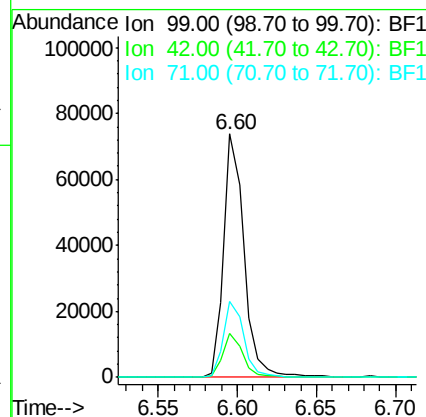
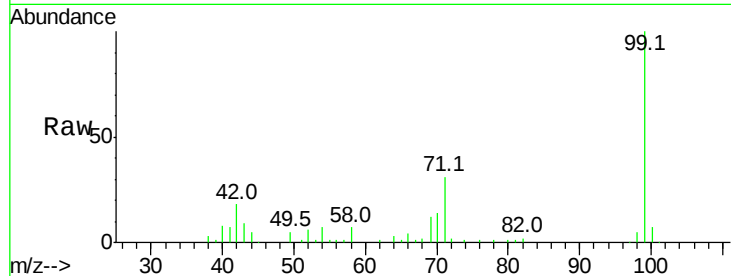
ClientSampleId :

AREA-3(D)

Tot Ion:	99	Resp:	66038
Ion Ratio	Lower	Upper	
99	100		
42	18.3	14.5	21.7
71	31.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

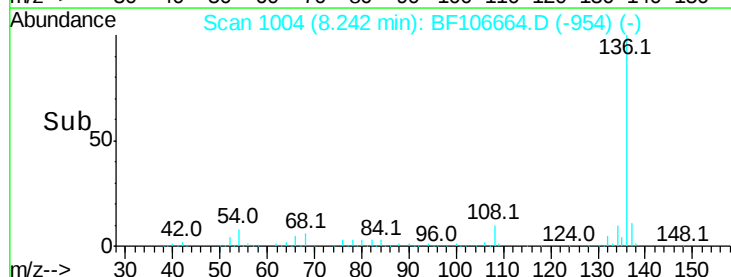
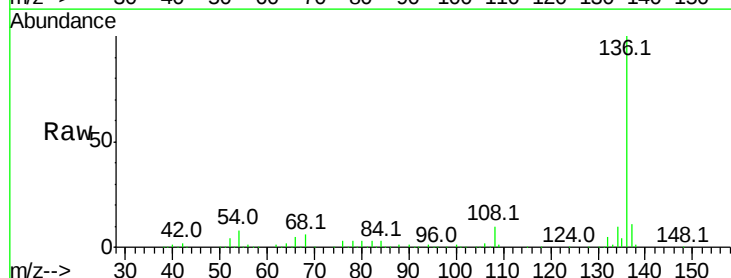
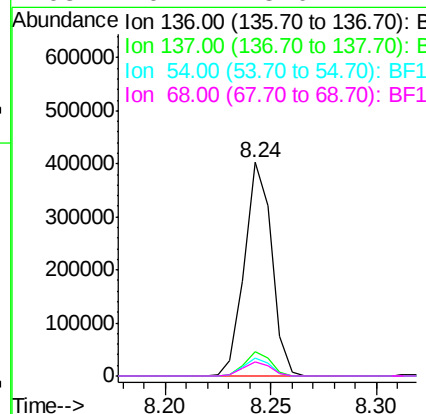
RT: 8.24 min Scan# 1004

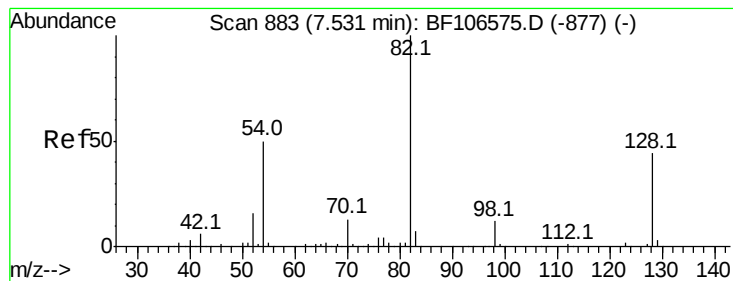
Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Tgt Ion:	136	Resp:	359591
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.9	13.3
54	8.4	6.6	9.8
68	6.4	5.0	7.4





#23

Nitrobenzene-d5

Concen: 6.028 ng

RT: 7.52 min Scan# 881

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA_F

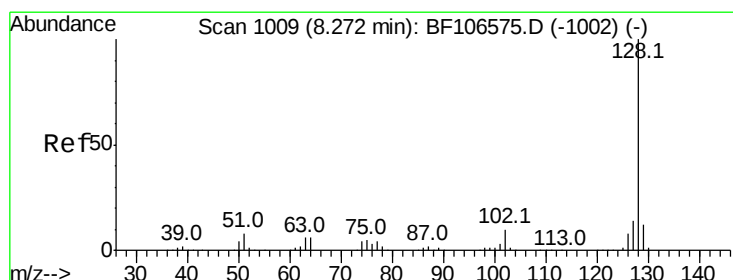
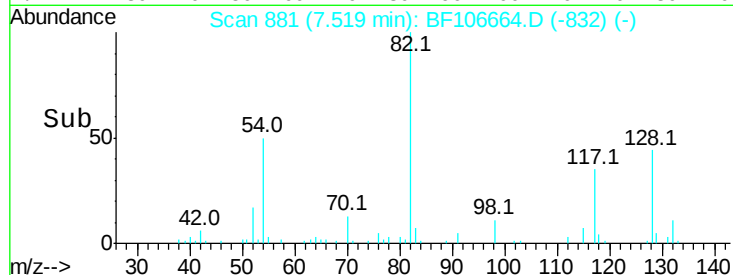
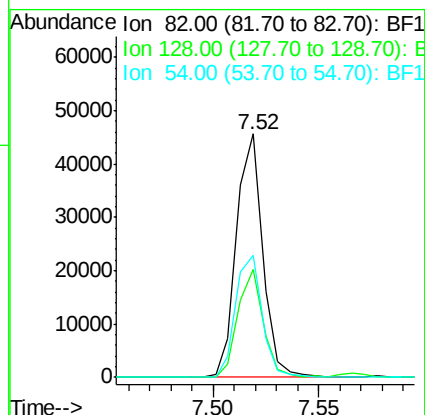
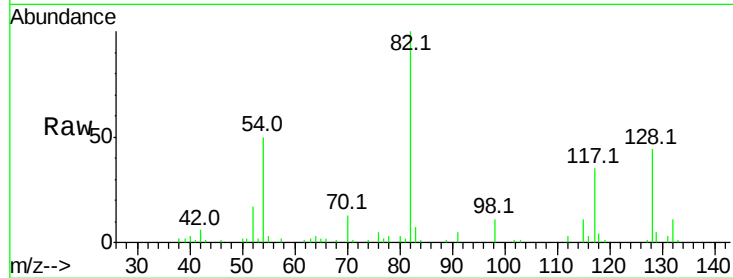
ClientSampleId :

AREA-3(D)

Tot Ion:	82	Resp:	39006
Ion Ratio	Lower	Upper	
82	100		
128	44.4	36.1	54.1
54	50.2	41.4	62.2

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#31

Naphthalene

Concen: 54.388 ng

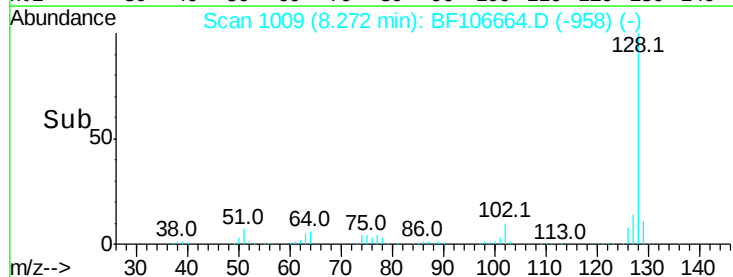
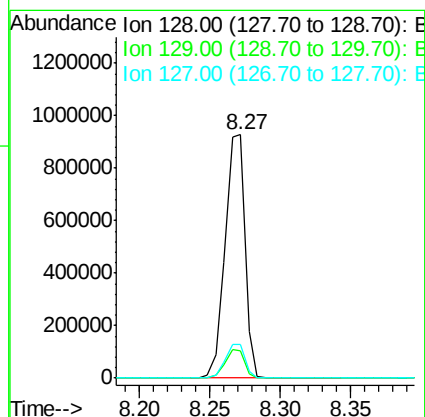
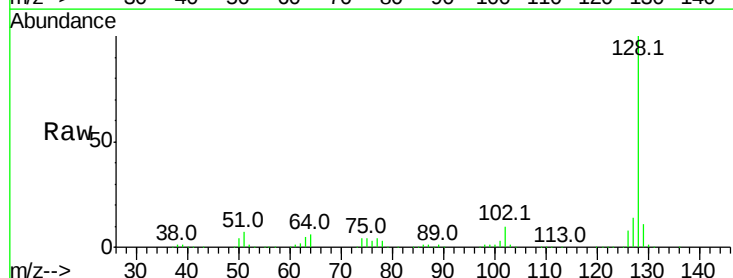
RT: 8.27 min Scan# 1009

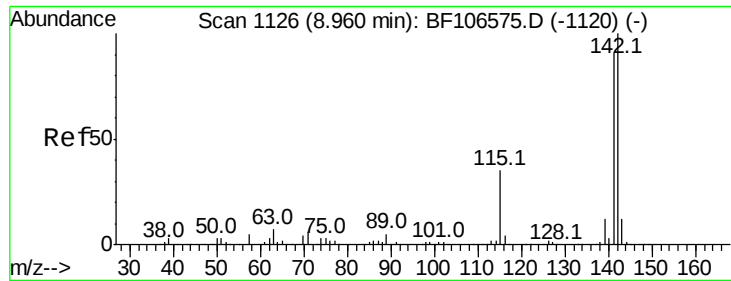
Delta R.T. 0.00 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Tgt Ion:	128	Resp:	914361
Ion Ratio	Lower	Upper	
128	100		
129	11.4	8.8	13.2
127	13.9	10.9	16.3





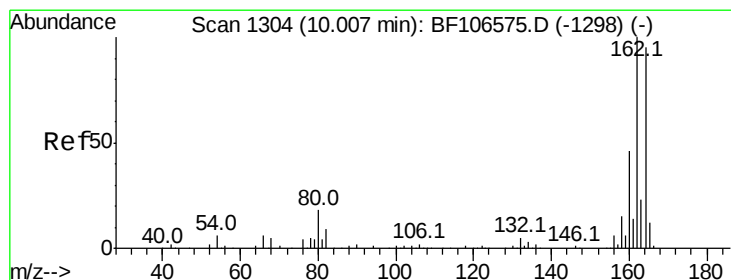
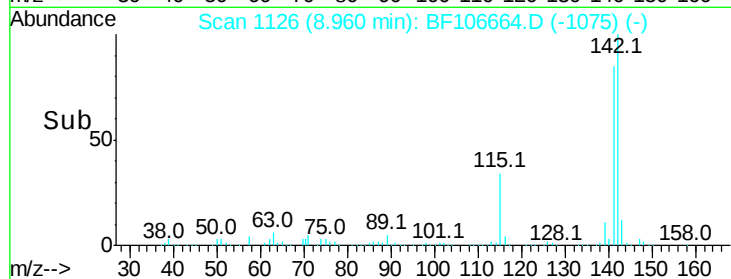
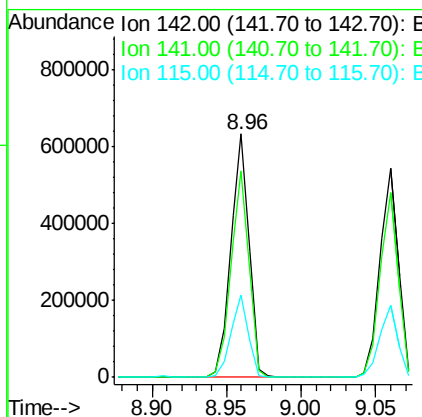
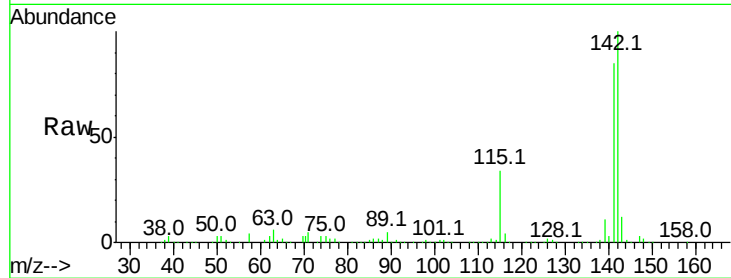
#37
2-Methylnaphthalene
Concen: 49.324 ng
RT: 8.96 min Scan# 1126
Delta R.T. 0.00 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Instrument :
BNA_F
ClientSampleId :
AREA-3(D)

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.8	70.8	106.2
115	34.0	26.1	39.1

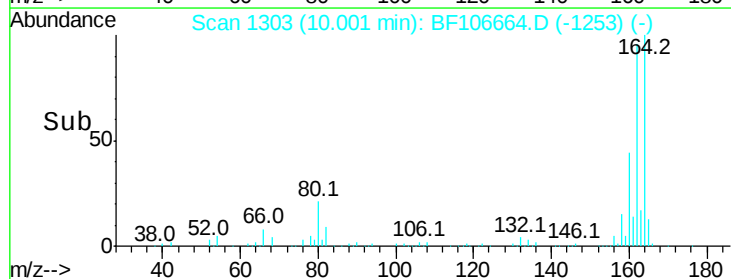
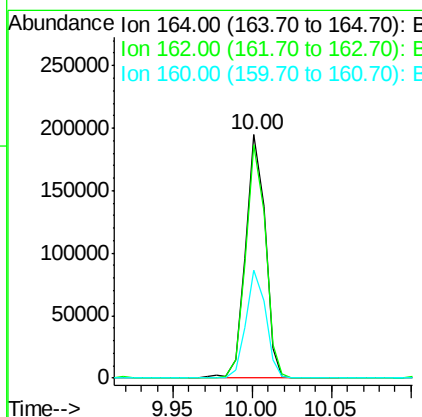
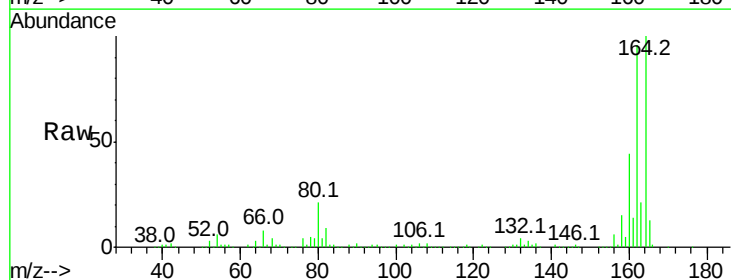
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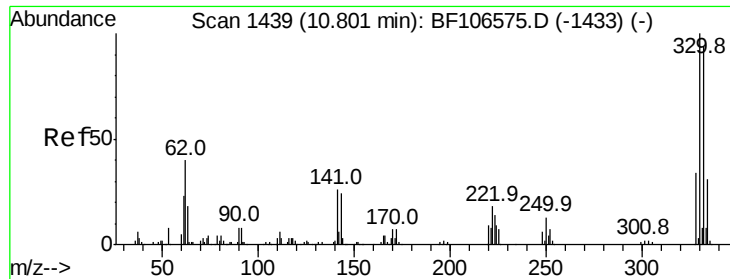
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Lower	Upper
164	100		
162	95.9	86.1	129.1
160	44.2	38.3	57.5





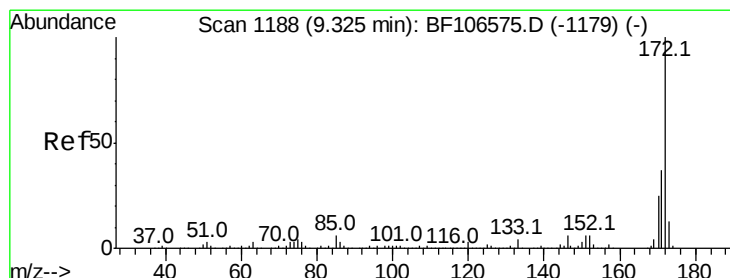
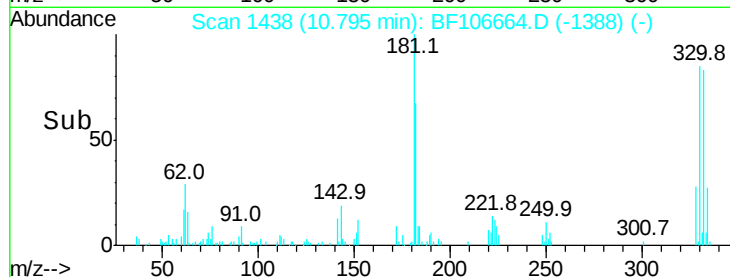
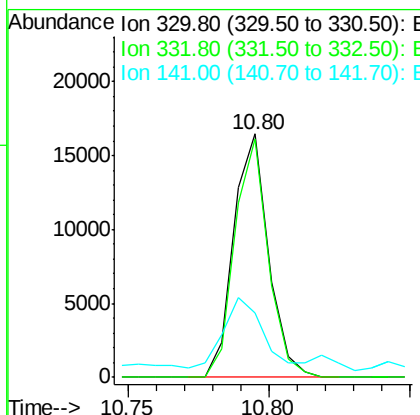
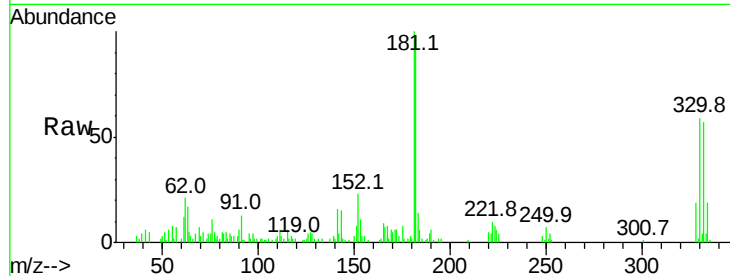
#41
 2,4,6-Tribromophenol
 Concen: 7.205 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF106664.D
 Acq: 21 Jun 2018 16:20

Instrument :
 BNA_F
 ClientSampled :
 AREA-3(D)

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.6	77.0	115.6
141	32.6	29.9	44.9

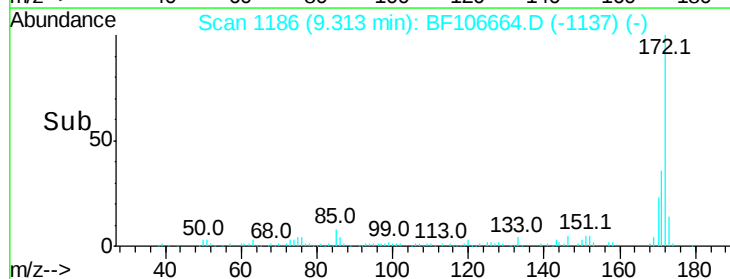
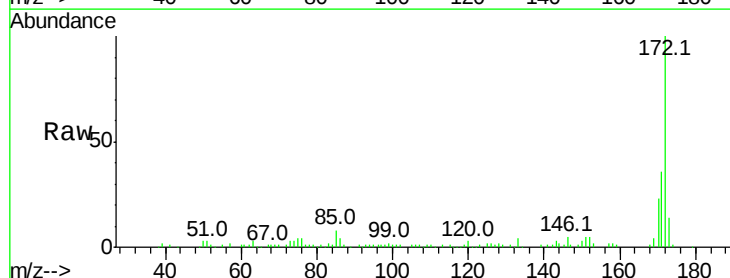
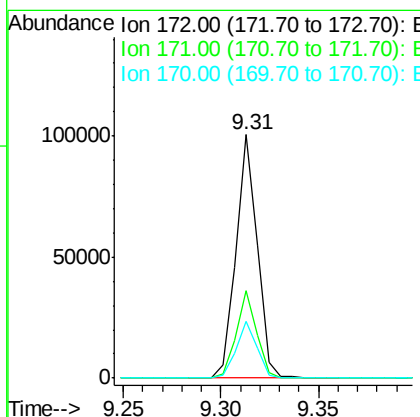
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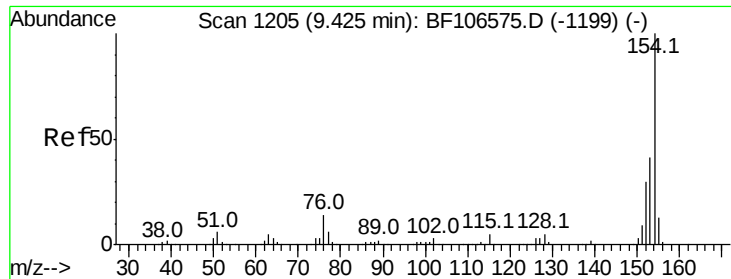
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 6/22/2018 10:23:04 AM



#44
 2-Fluorobiphenyl
 Concen: 6.903 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF106664.D
 Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.7	44.5
170	23.3	19.6	29.4





#45

1,1'-Biphenyl

Concen: 5.086 ng

RT: 9.42 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA_F

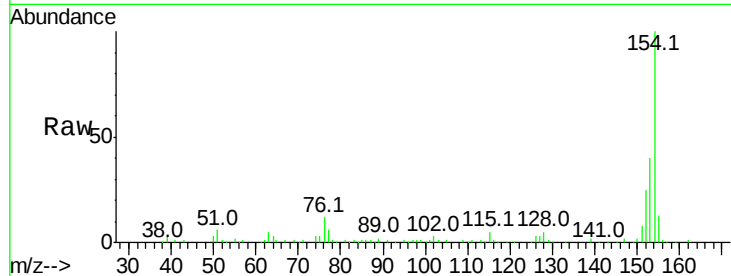
ClientSampled :

AREA-3(D)

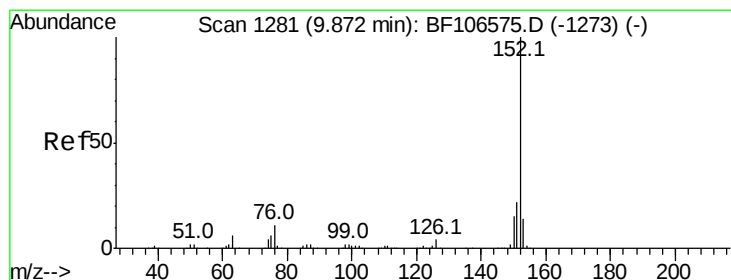
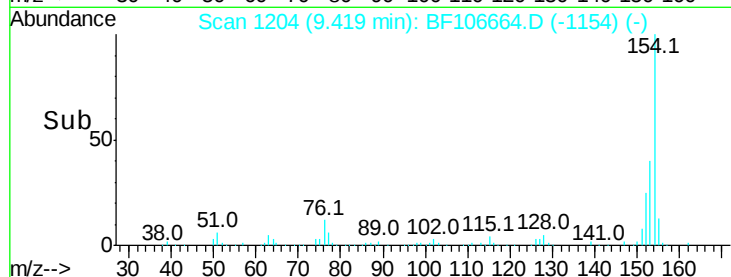
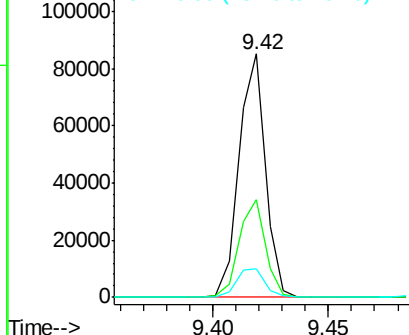
Tot Ion:	154	Resp:	68124
Ion Ratio	Lower	Upper	
154	100		
153	40.0	21.3	61.3
76	12.0	0.0	34.0

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): BF1



#48

Acenaphthylene

Concen: 6.984 ng

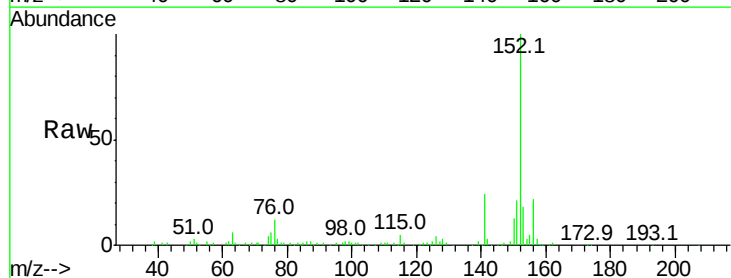
RT: 9.87 min Scan# 1280

Delta R.T. -0.01 min

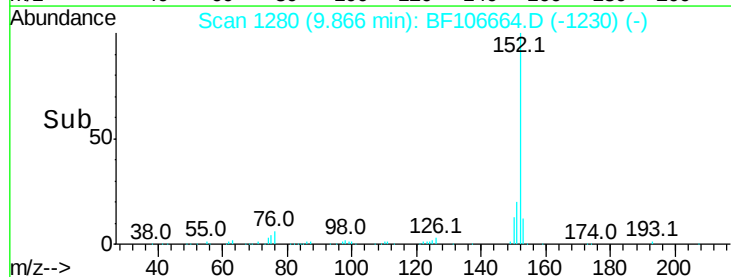
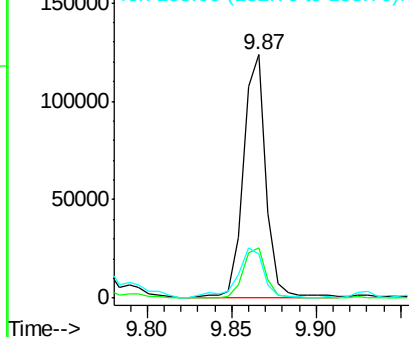
Lab File: BF106664.D

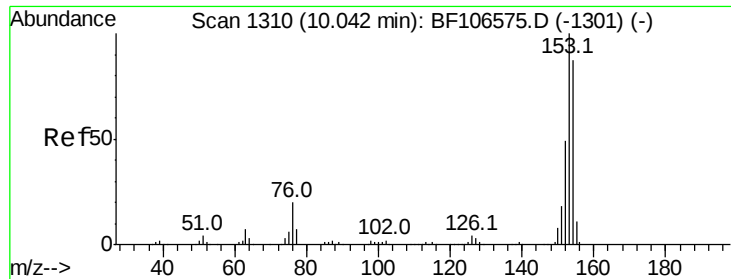
Acq: 21 Jun 2018 16:20

Tgt Ion:	152	Resp:	116252
Ion Ratio	Lower	Upper	
152	100		
151	20.8	16.3	24.5
153	18.1	10.7	16.1#



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





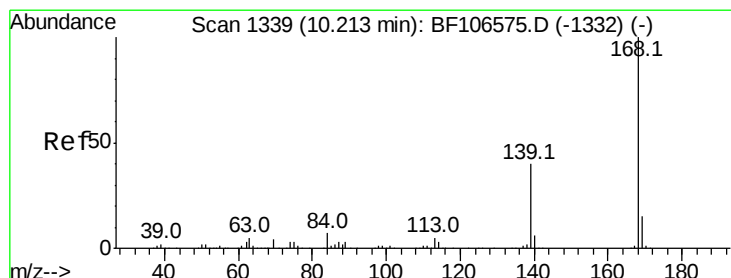
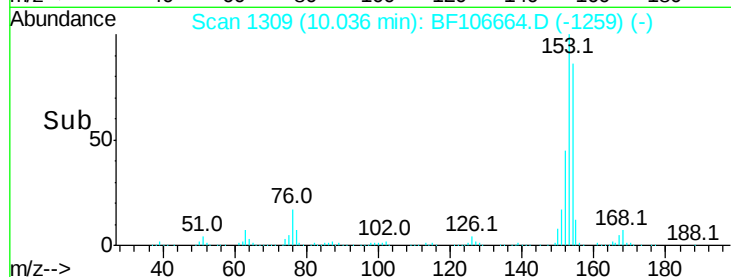
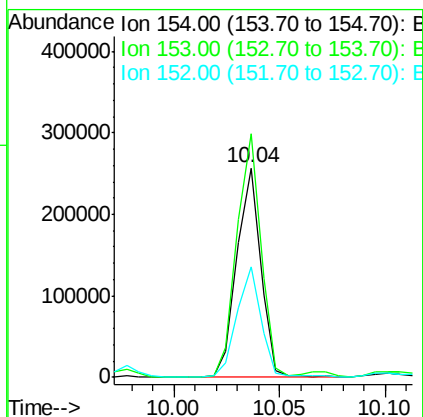
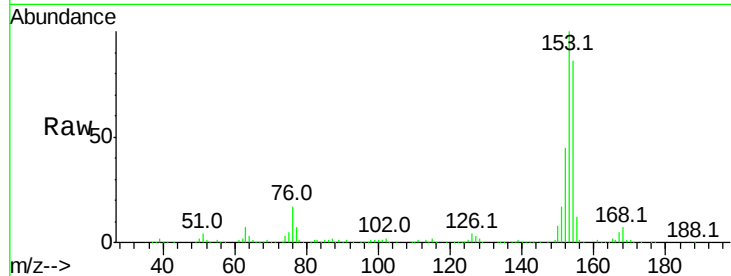
#51
Acenaphthene
Concen: 19.101 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Instrument :
BNA_F
ClientSampleId :
AREA-3(D)

Tot Ion	Ratio	Lower	Upper
154	100		
153	116.5	91.2	136.8
152	52.9	43.8	65.8

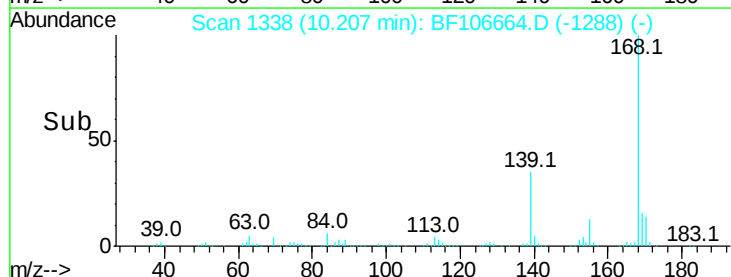
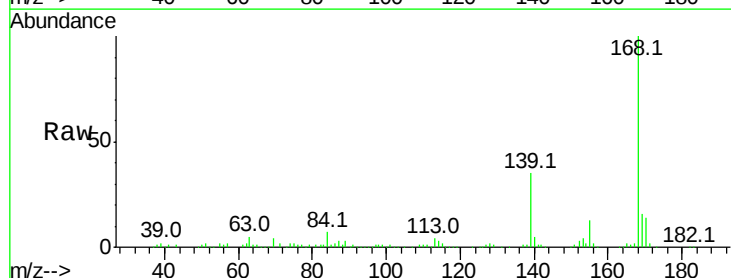
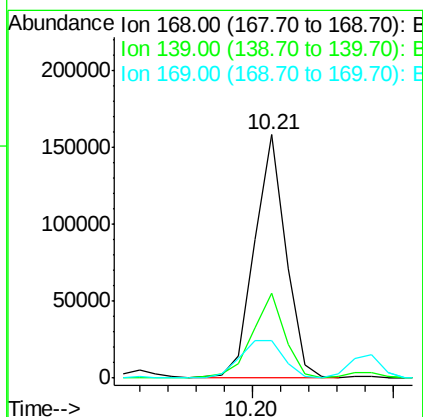
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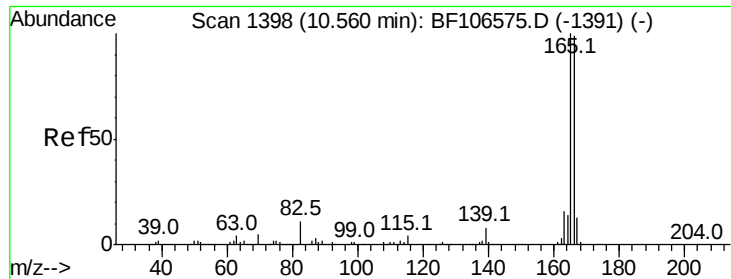
Sohil
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#54
Dibenzofuran
Concen: 8.466 ng
RT: 10.21 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Lower	Upper
168	100		
139	34.7	30.1	45.1
169	15.6	10.9	16.3





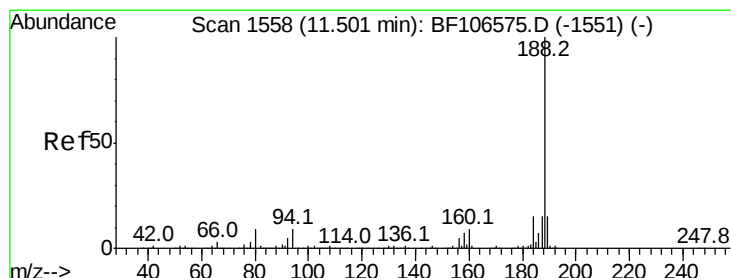
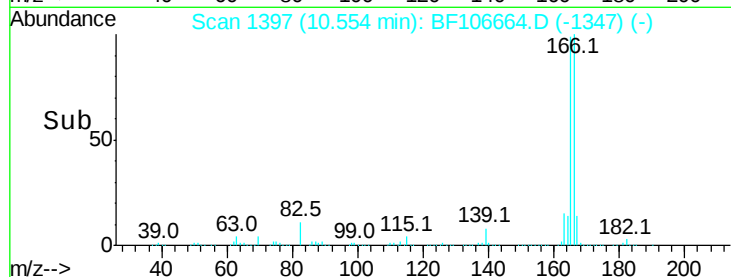
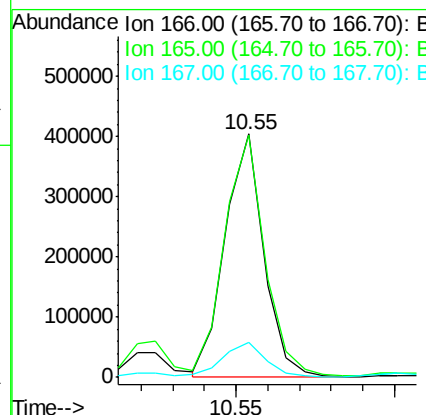
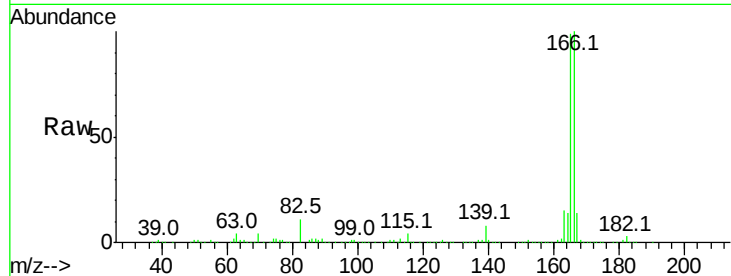
#57
Fluorene
 Concen: 29.757 ng
 RT: 10.55 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF106664.D
 Acq: 21 Jun 2018 16:20

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3(D)

Tot Ion	Ratio	Resp	Lower	Upper
166	100	338904		
165	99.4	79.8	119.8	
167	14.3	10.6	16.0	

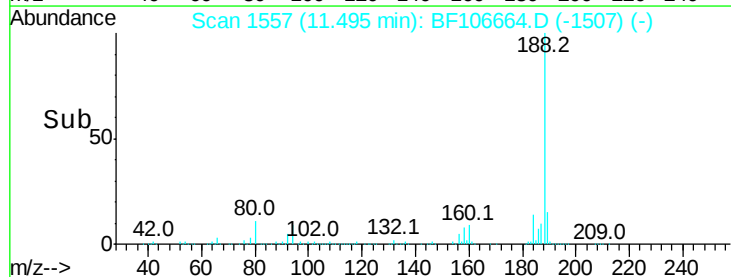
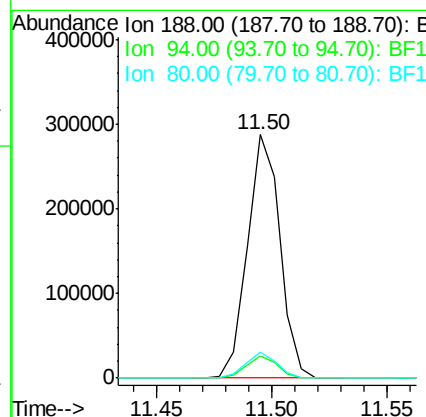
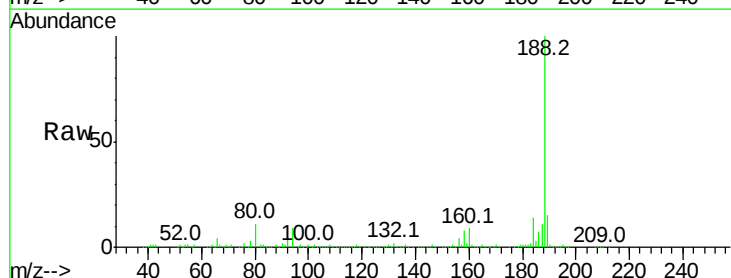
Manual Integrations
 APPROVED

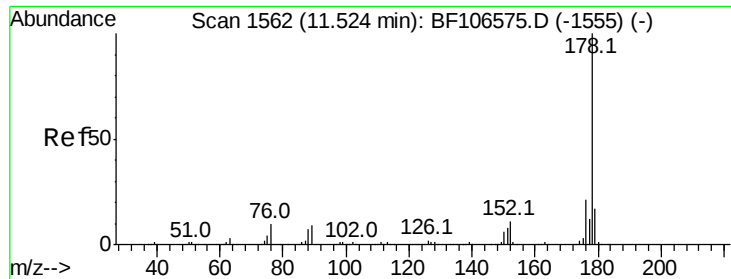
Sohil
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF106664.D
 Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	282338		
94	9.4	8.5	12.7	
80	10.6	9.2	13.8	





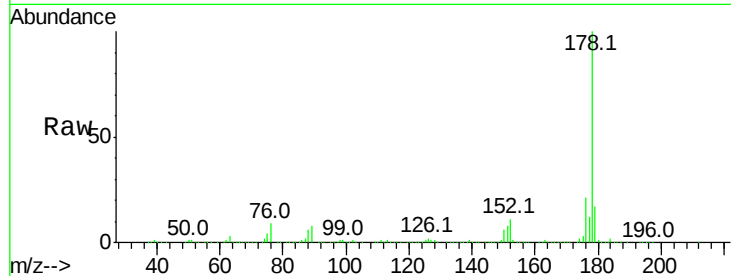
#70
Phenanthrene
Concen: 84.082 ng
RT: 11.52 min Scan# 1562
Delta R.T. 0.00 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Instrument :
BNA_F
ClientSampled :
AREA-3(D)

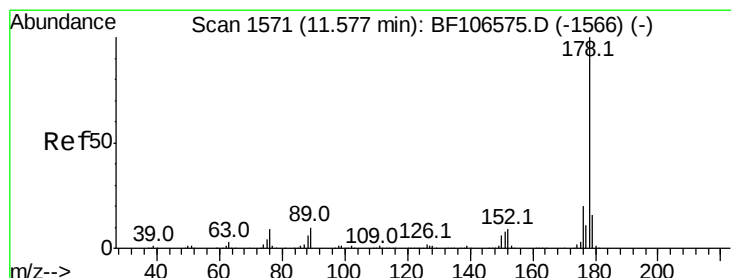
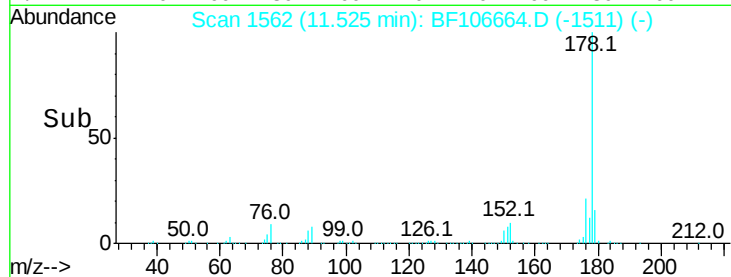
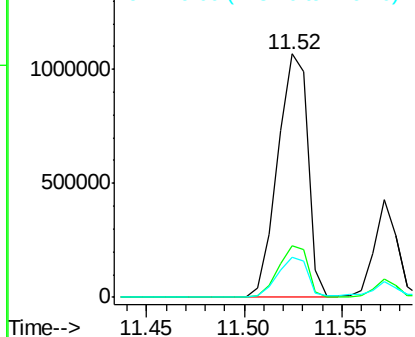
Tot Ion	Ratio	Lower	Upper
178	100		
176	21.0	15.8	23.8
179	16.5	13.0	19.6

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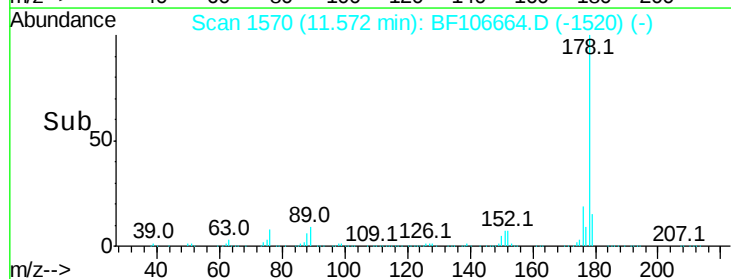
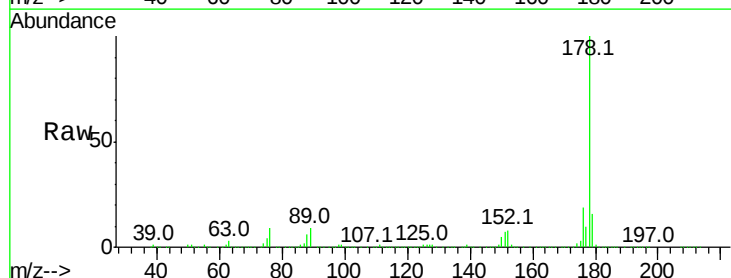
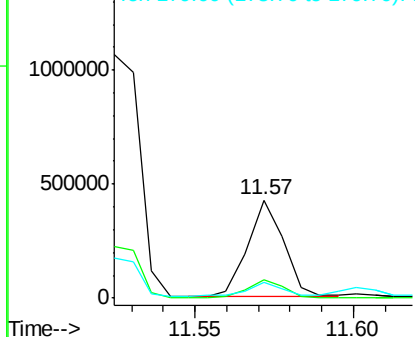
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

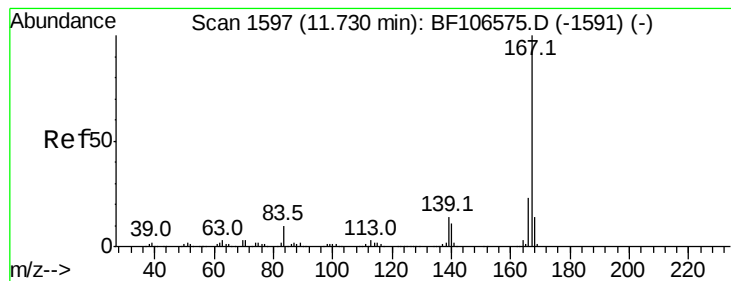


#71
Anthracene
Concen: 24.067 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	16.3	12.6	19.0

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.026 ng

RT: 11.72 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA_F

ClientSampleId :

AREA-3(D)

Tot Ion:167 Resp: 39384

Ion Ratio Lower Upper

167 100

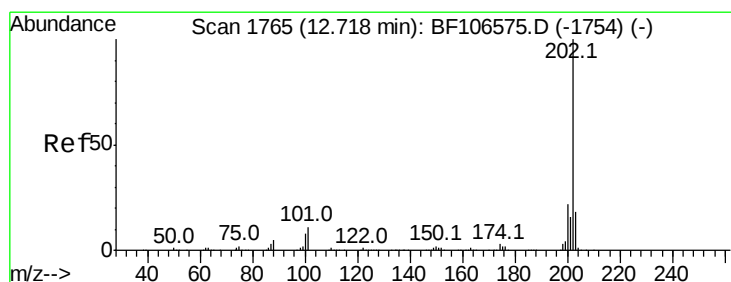
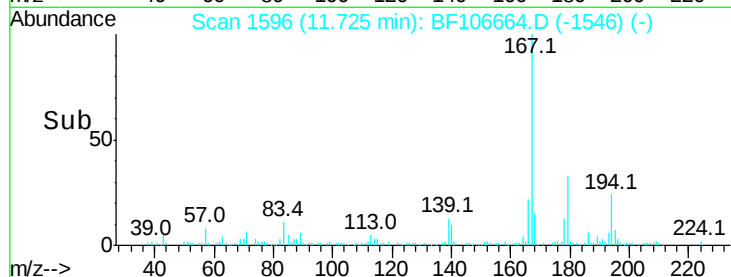
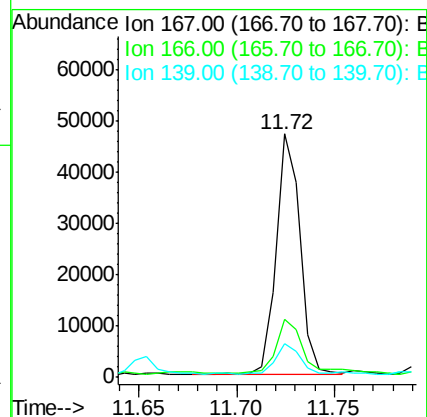
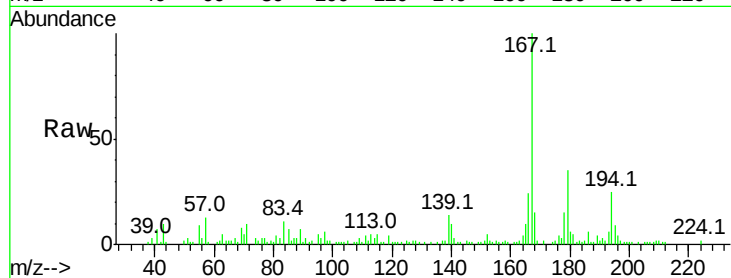
166 23.7 17.6 26.4

139 13.9 10.9 16.3

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#74

Fluoranthene

Concen: 52.118 ng

RT: 12.72 min Scan# 1765

Delta R.T. 0.00 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

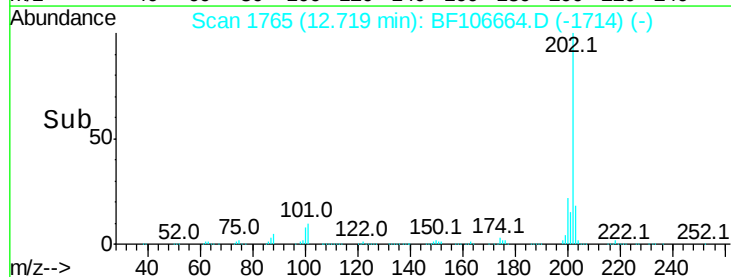
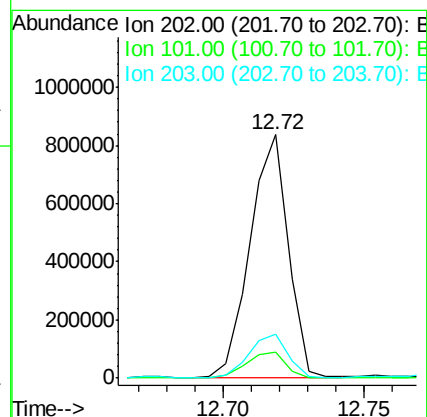
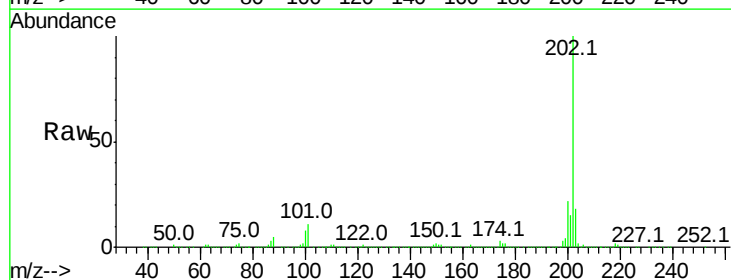
Tgt Ion:202 Resp: 782258

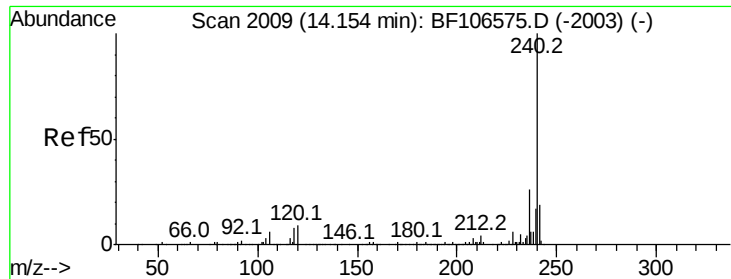
Ion Ratio Lower Upper

202 100

101 10.5 0.0 34.1

203 18.2 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA_F

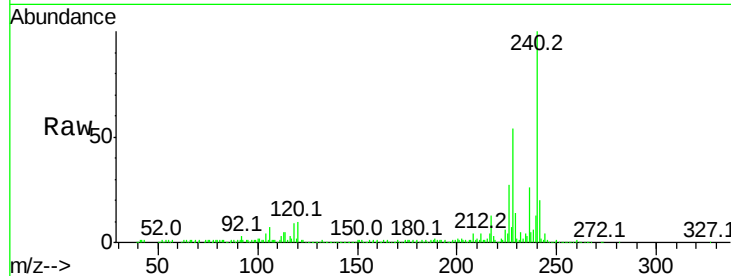
ClientSampled :

AREA-3(D)

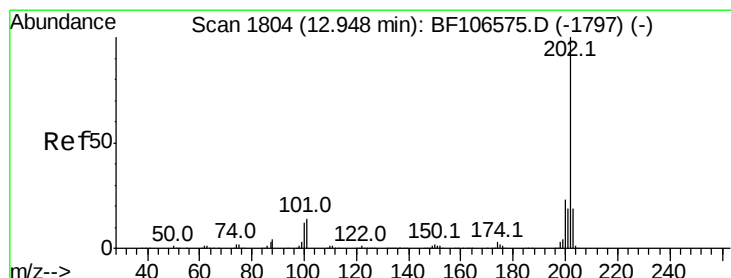
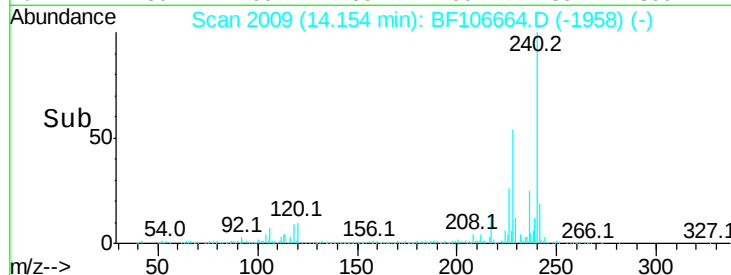
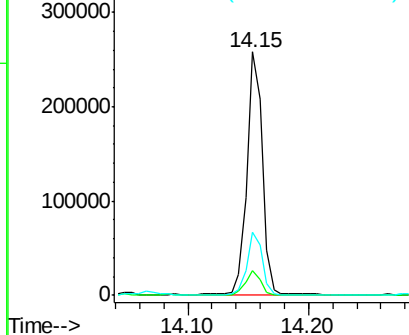
Tot Ion:	240	Resp:	231809
Ion Ratio	Lower	Upper	
240	100		
120	10.2	9.5	14.3
236	25.7	20.7	31.1

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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: 64.071 ng

RT: 12.95 min Scan# 1805

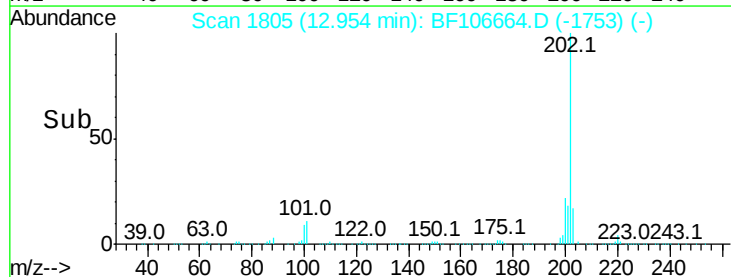
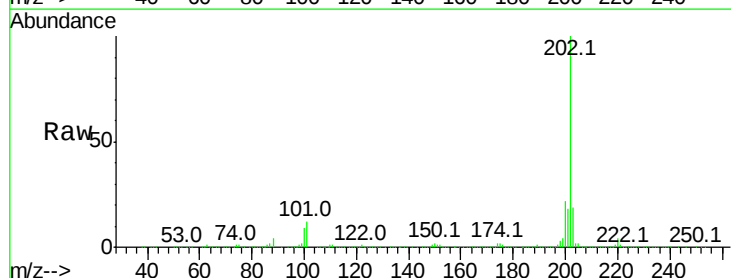
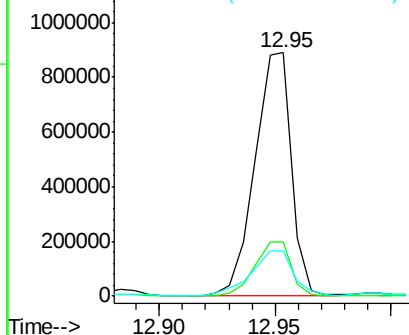
Delta R.T. 0.01 min

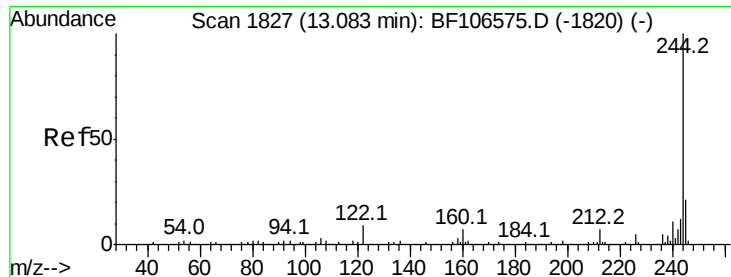
Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Tgt Ion:	202	Resp:	979405
Ion Ratio	Lower	Upper	
202	100		
200	22.2	17.4	26.2
203	18.7	14.3	21.5

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





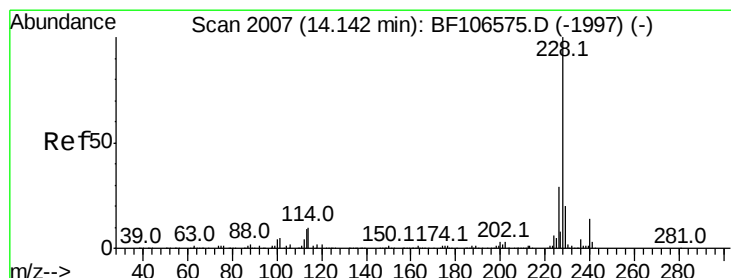
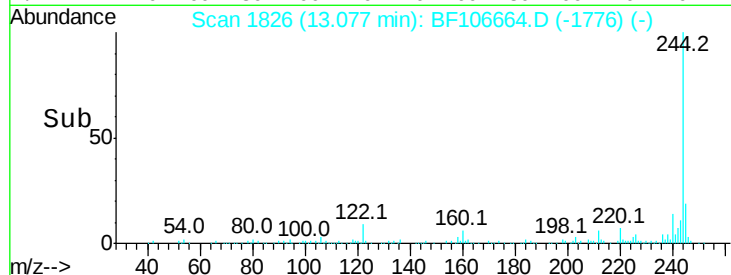
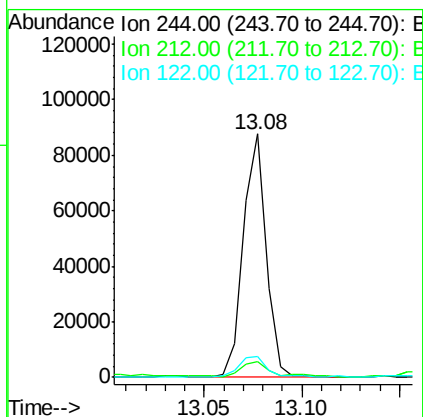
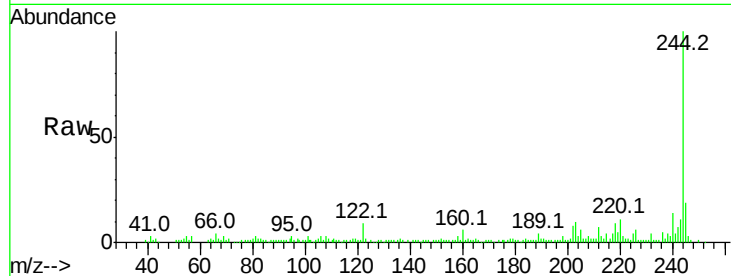
#78
 Terphenyl-d14
 Concen: 7.462 ng
 RT: 13.08 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF106664.D
 Acq: 21 Jun 2018 16:20

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3(D)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	8.6	11.0	16.4

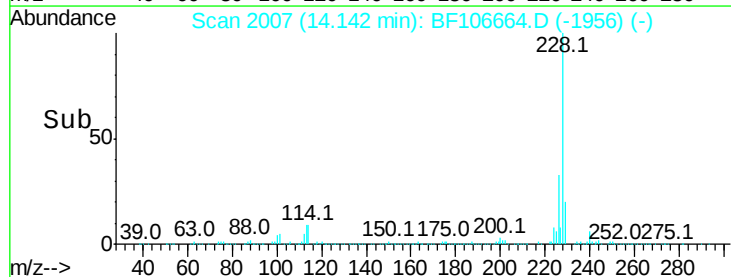
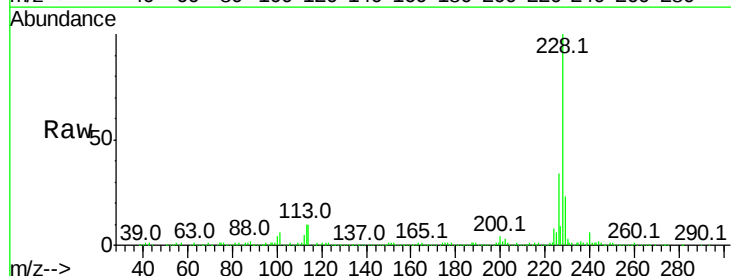
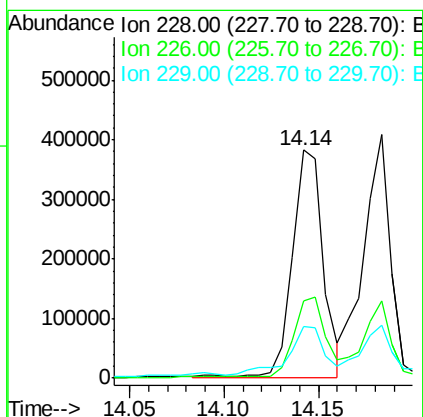
Manual Integrations
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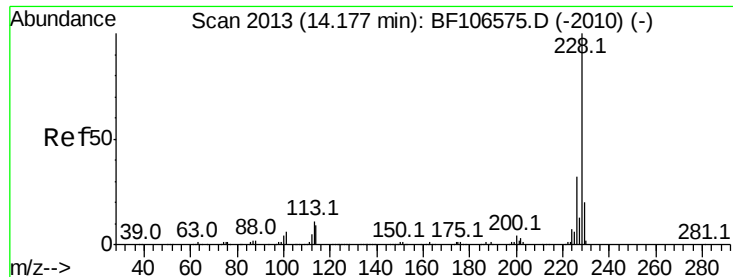
Sohil
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#80
 Benzo(a)anthracene
 Concen: 30.920 ng m
 RT: 14.14 min Scan# 2007
 Delta R.T. 0.00 min
 Lab File: BF106664.D
 Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.9	22.6	33.8
229	22.5	15.8	23.6





#82

Chrysene

Concen: 30.721 ng

RT: 14.18 min Scan# 2014

Delta R.T. 0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA_F

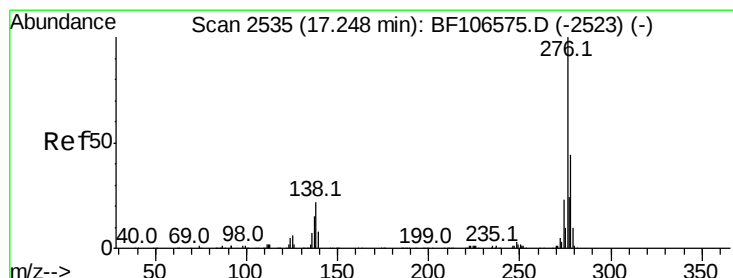
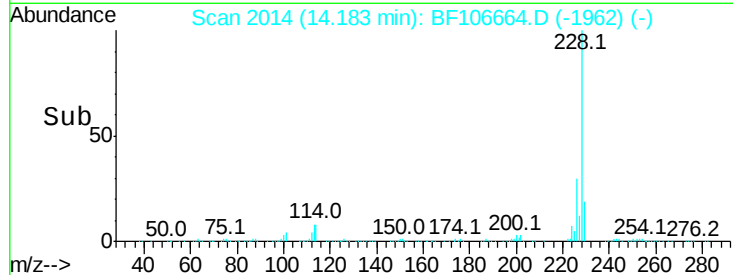
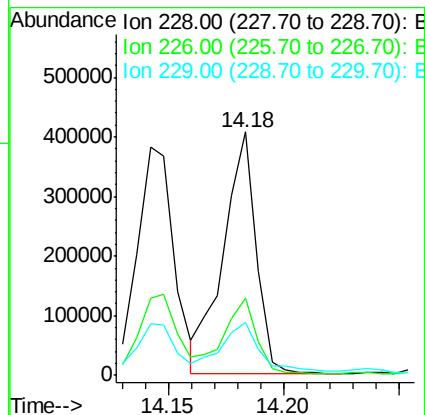
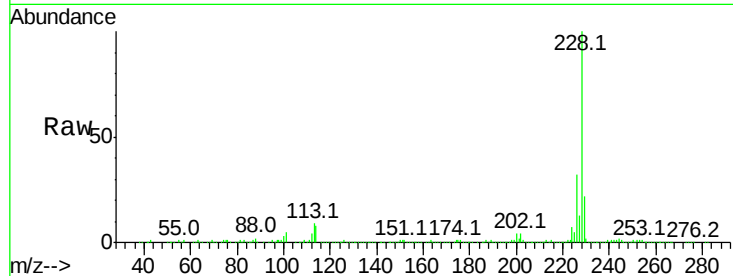
ClientSampled :

AREA-3(D)

Tot Ion:	228	Resp:	399305
Ion Ratio	Lower	Upper	
228	100		
226	31.6	25.0	37.6
229	22.0	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 10.618 ng m

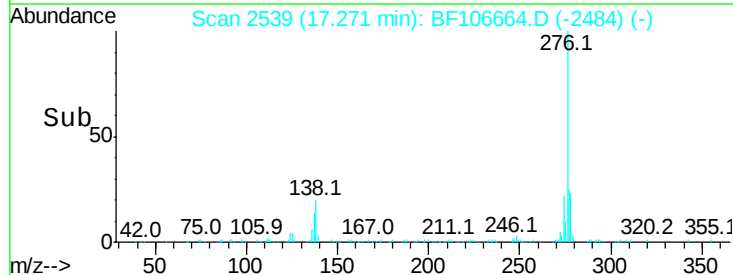
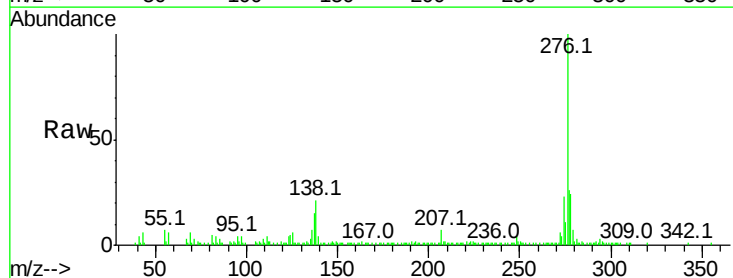
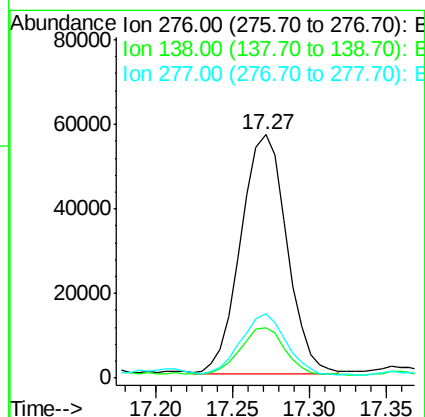
RT: 17.27 min Scan# 2539

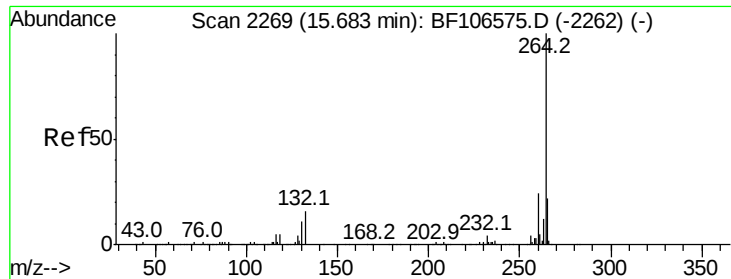
Delta R.T. 0.02 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Tgt Ion:	276	Resp:	117114
Ion Ratio	Lower	Upper	
276	100		
138	1.1	25.0	37.6#
277	1.1	20.1	30.1#





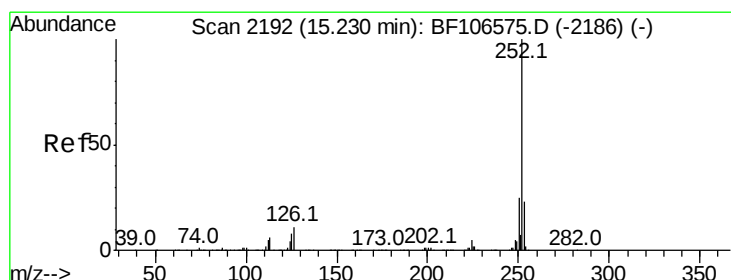
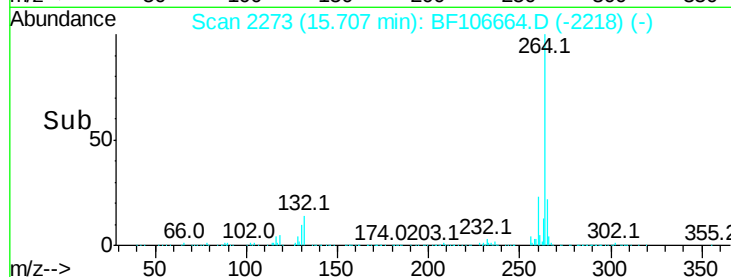
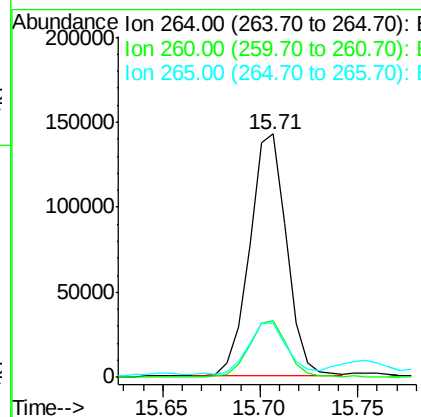
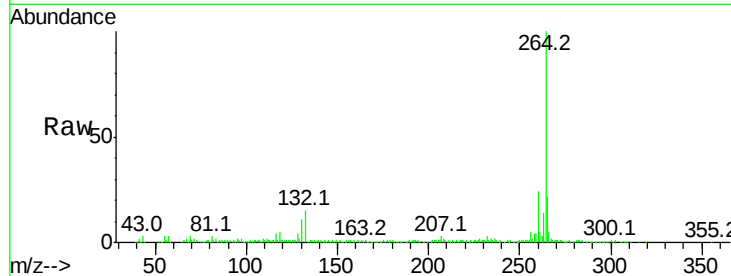
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.71 min Scan# 2273
Delta R.T. 0.02 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Instrument :
BNA_F
ClientSampleId :
AREA-3(D)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.5	17.5	26.3

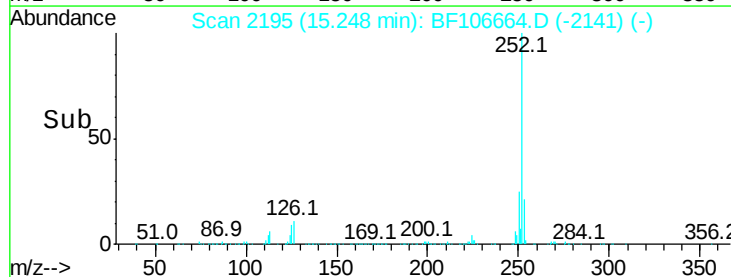
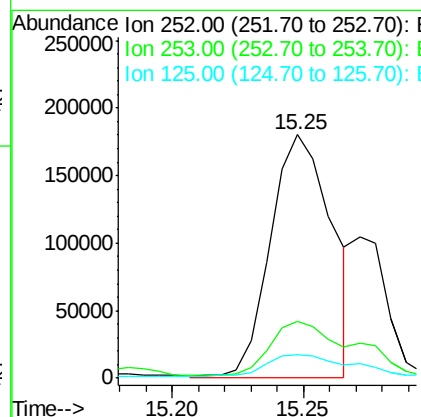
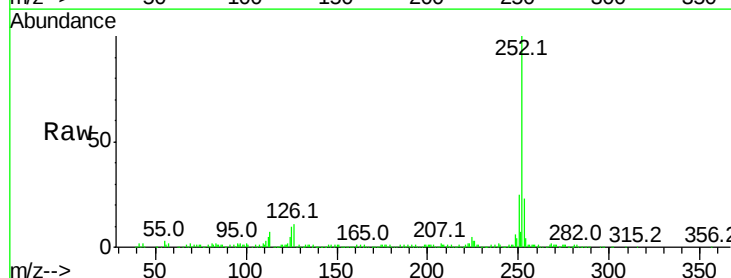
Manual Integrations
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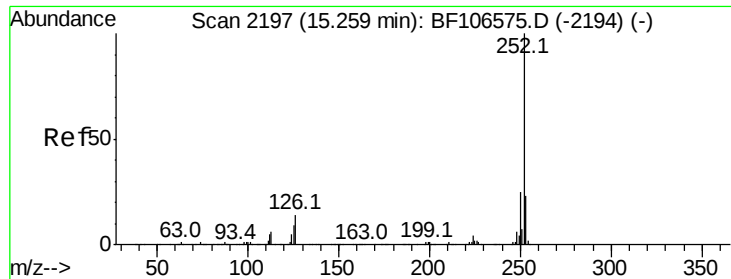
Sohil
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#87
Benzo(b)fluoranthene
Concen: 25.574 ng m
RT: 15.25 min Scan# 2195
Delta R.T. 0.02 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	9.9	9.0	13.6





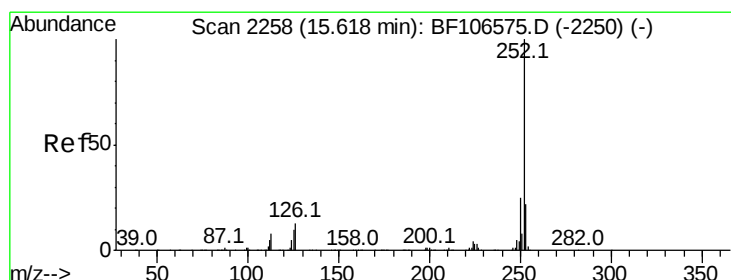
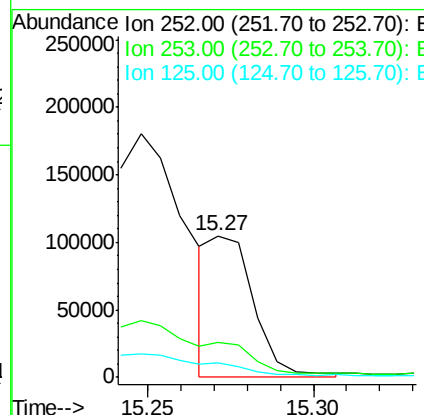
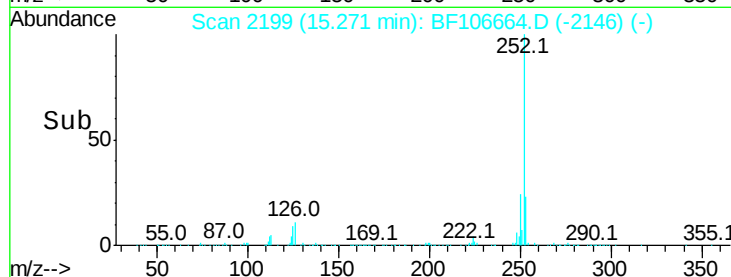
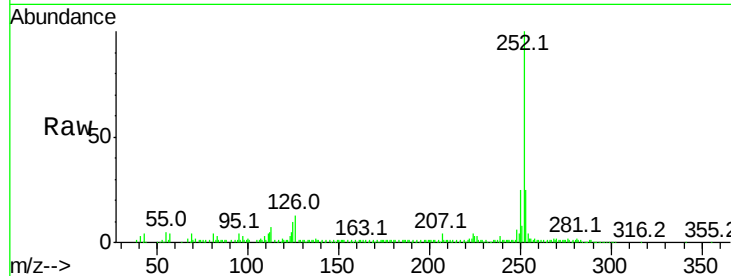
#88
Benzo(k)fluoranthene
Concen: 8.689 ng m
RT: 15.27 min Scan# 2199
Delta R.T. 0.01 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Instrument :
BNA_F
ClientSampled :
AREA-3(D)

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.9	26.9
125	10.3	10.2	15.2

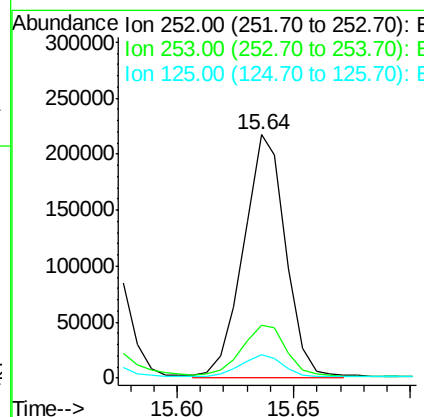
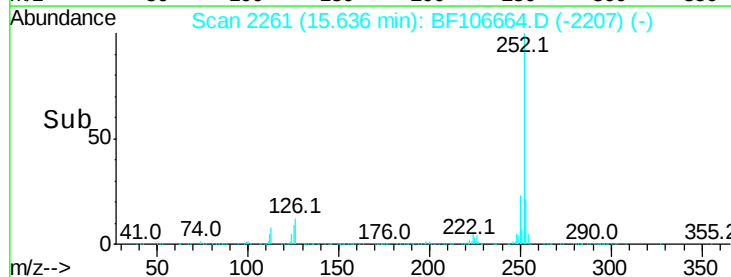
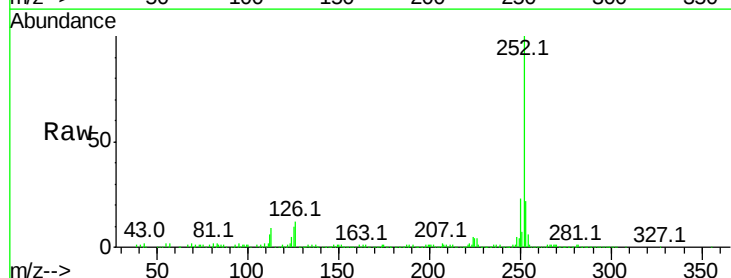
Manual Integrations
APPROVED

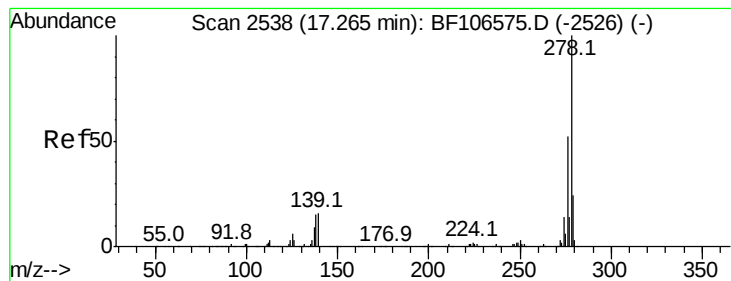
Sohil
6/22/2018 10:23:04 AM



#89
Benzo(a)pyrene
Concen: 26.522 ng m
RT: 15.64 min Scan# 2261
Delta R.T. 0.02 min
Lab File: BF106664.D
Acq: 21 Jun 2018 16:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.6	9.8	14.6#





#90

Dibenzo(a,h)anthracene

Concen: 3.968 ng

RT: 17.28 min Scan# 2541

Delta R.T. 0.02 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA_F

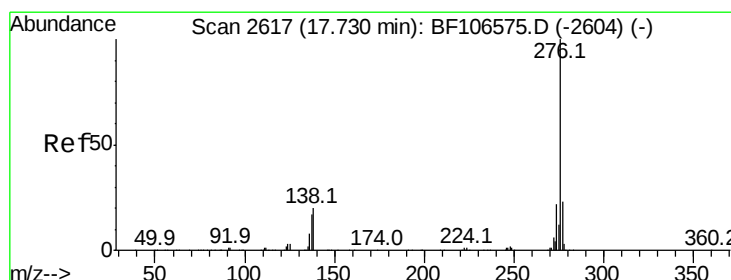
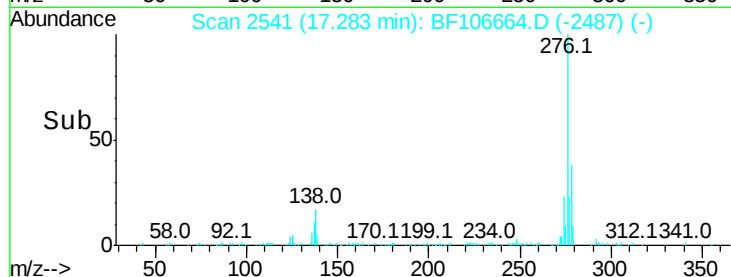
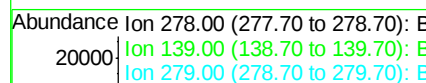
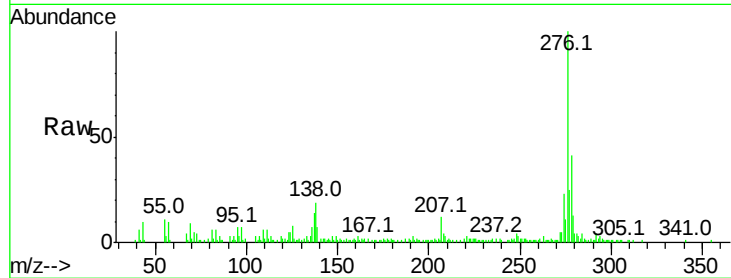
ClientSampleId :

AREA-3(D)

Tot Ion:	278	Resp:	34548
Ion	Ratio	Lower	Upper
278	100		
139	17.5	15.9	23.9
279	31.9	19.0	28.4#

Manual Integrations
APPROVED

Sohil
6/22/2018 10:23:04 AM



#91

Benzo(g,h,i)perylene

Concen: 14.206 ng

RT: 17.75 min Scan# 2621

Delta R.T. 0.02 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Tgt Ion:	276	Resp:	120901
Ion	Ratio	Lower	Upper
276	100		
277	25.1	17.9	26.9
138	20.9	21.8	32.8#

