

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
 Data File : BF101515.D
 Acq On : 19 Dec 2017 9:43
 Operator : SJ/JU
 Sample : I6877-04DL2 10X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)DL2

Manual Integrations
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Quant Time: Dec 19 10:35:35 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 18 15:38:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	136727	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	506120	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	188122	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	284761	20.00	ng	0.00
75) Chrysene-d12	13.99	240	286418	20.00	ng	0.00
86) Perylene-d12	15.46	264	276445	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	104879	11.43	ng	0.02
7) Phenol-d6	6.46	99	131139	11.48	ng	0.00
23) Nitrobenzene-d5	7.38	82	70387	7.74	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	16229	8.95	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	117883	9.72	ng	0.00
78) Terphenyl-d14	12.92	244	75006	6.31	ng	0.00
Target Compounds						
51) Acenaphthene	9.88	154	25213	2.081	ng	Qvalue 97
70) Phenanthrene	11.36	178	264962	16.732	ng	99
71) Anthracene	11.42	178	85046	5.258	ng	98
72) Carbazole	11.58	167	44628	2.947	ng	99
74) Fluoranthene	12.56	202	412962	24.844	ng	97
77) Pyrene	12.79	202	413080	19.217	ng	99
80) Benzo(a)anthracene	13.98	228	341380	18.050	ng	100
82) Chrysene	14.02	228	271958	15.230	ng	97
85) Indeno(1,2,3-cd)pyrene	16.94	276	244812	15.395	ng	# 90
87) Benzo(b)fluoranthene	15.03	252	454241m	26.958	ng	
88) Benzo(k)fluoranthene	15.06	252	159176m	9.716	ng	
89) Benzo(a)pyrene	15.40	252	411570	26.496	ng	97
90) Dibenzo(a,h)anthracene	16.94	278	61680m	4.625	ng	
91) Benzo(g,h,i)perylene	17.39	276	221541	16.776	ng	93

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

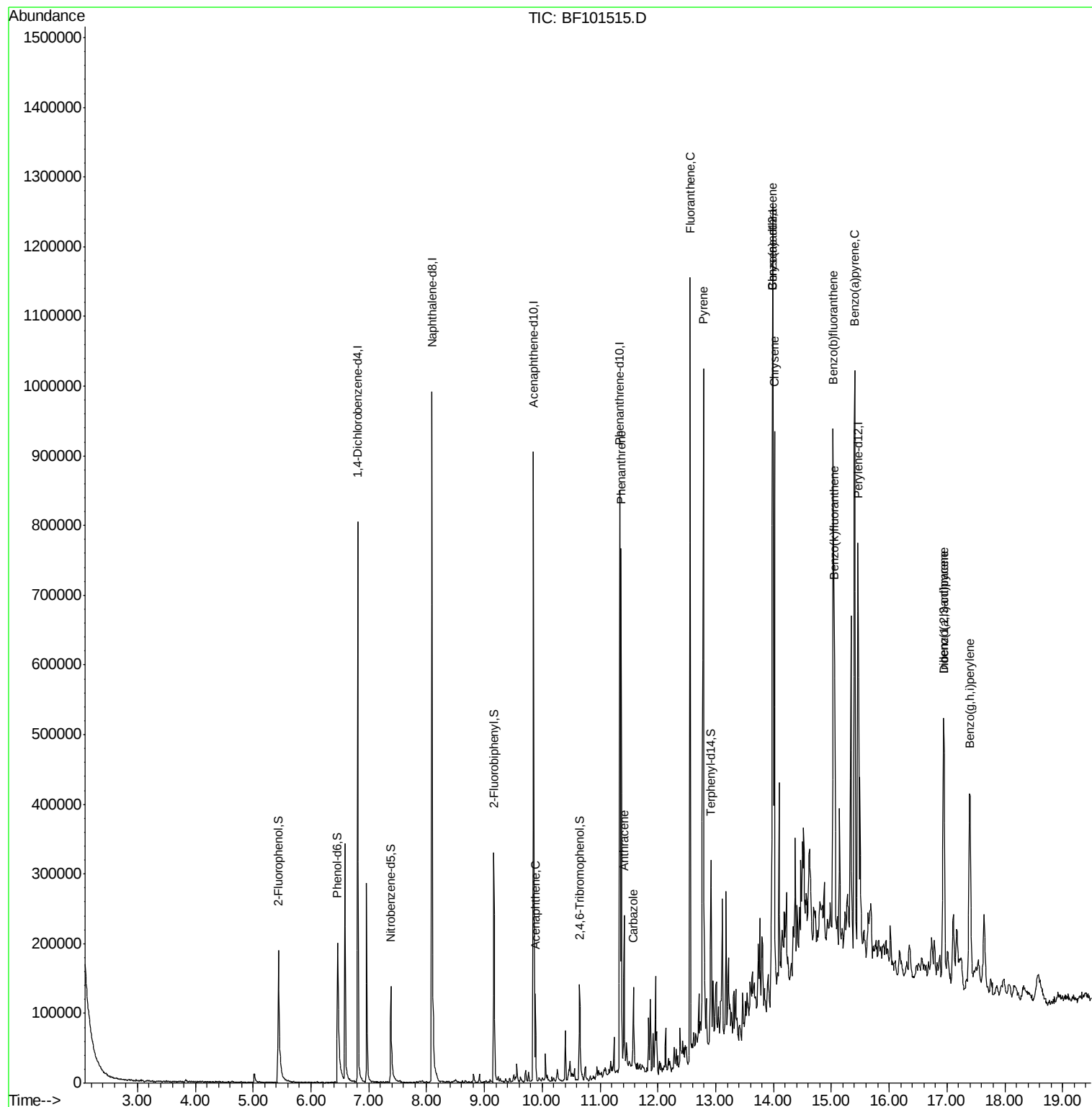
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
Data File : BF101515.D
Acq On : 19 Dec 2017 9:43
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ALS Vial : 42 Sample Multiplier: 1

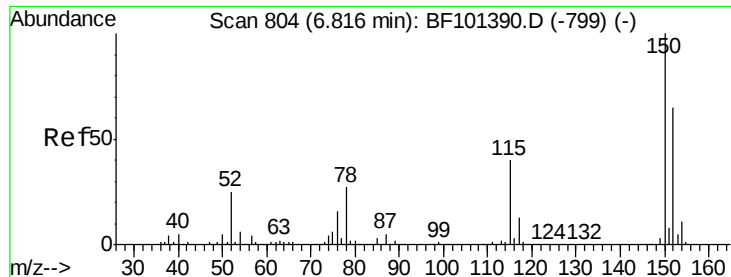
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
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#1

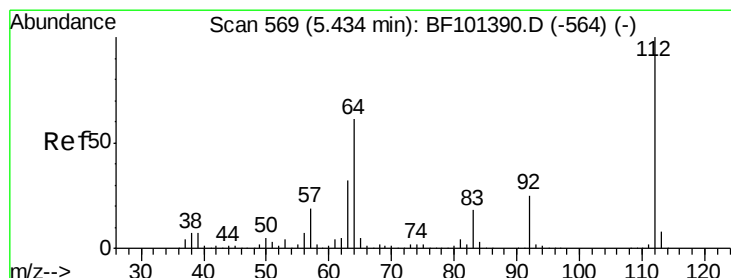
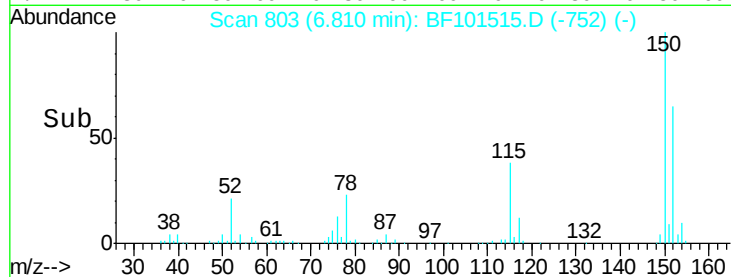
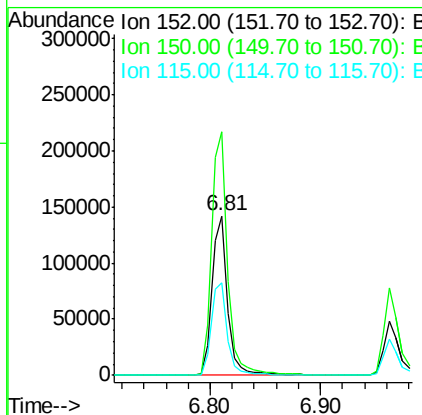
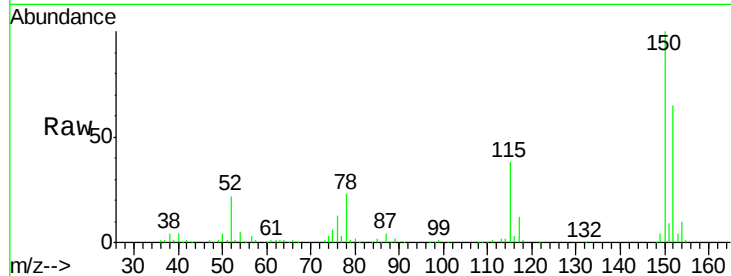
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF101515.D
Acq: 19 Dec 2017 9:43

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)DL2

Tgt Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.6	186.8
115	58.1	50.1	75.1

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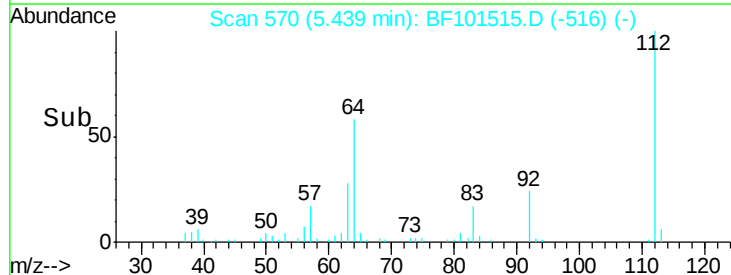
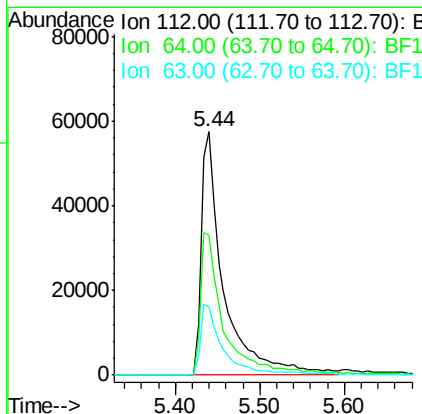
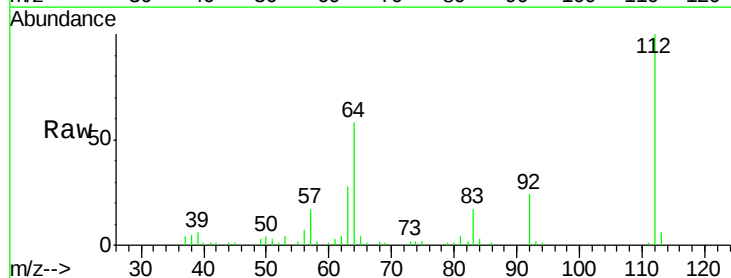
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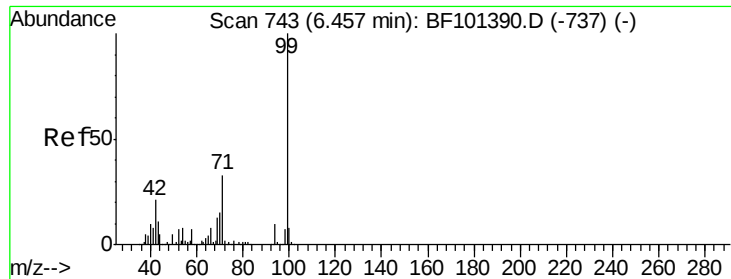


#5

2-Fluorophenol
Concen: 11.426 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.02 min
Lab File: BF101515.D
Acq: 19 Dec 2017 9:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.9	71.9
63	28.1	23.7	35.5





#7

Phenol-d6

Concen: 11.480 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.01 min

Lab File: BF101515.D

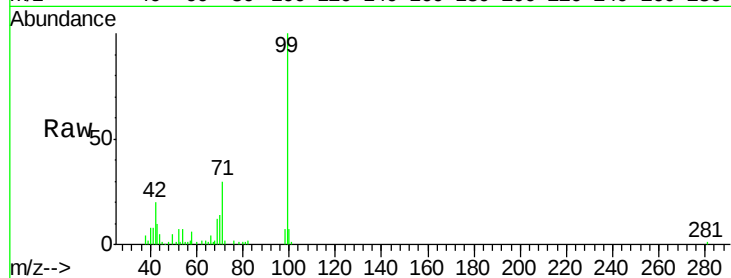
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Instrument :

BNA_F

ClientSampleId :

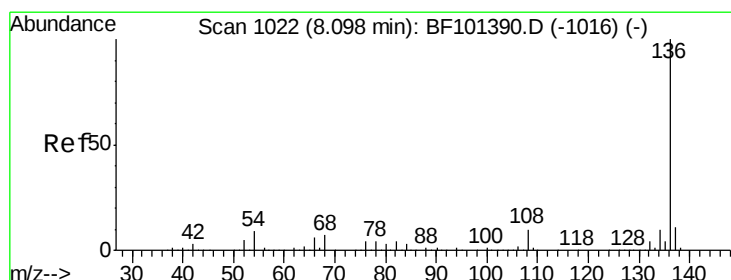
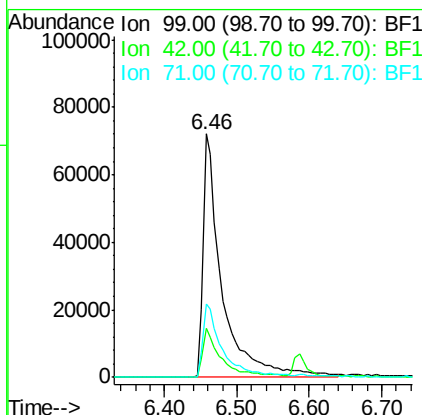
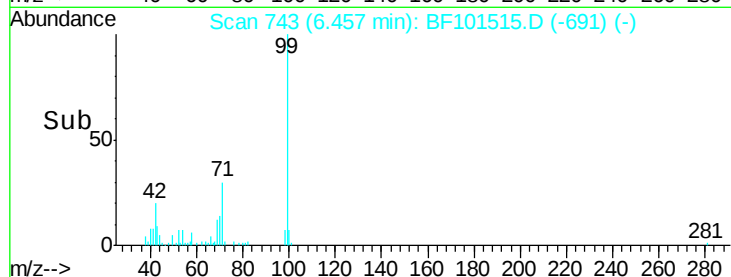
SB-7(13-15)DL2



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		131139		
42	20.2	14.5	21.7		
71	30.0	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

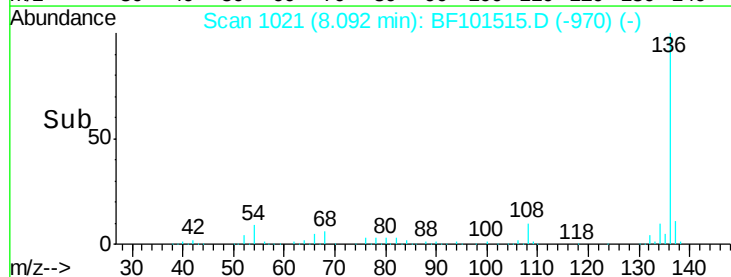
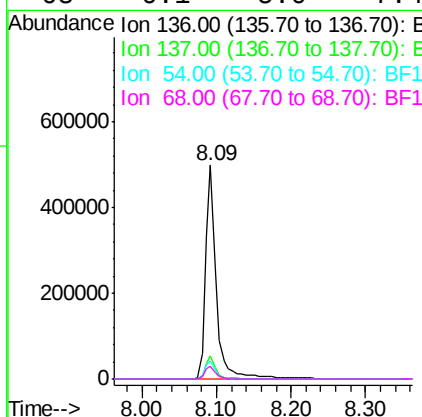
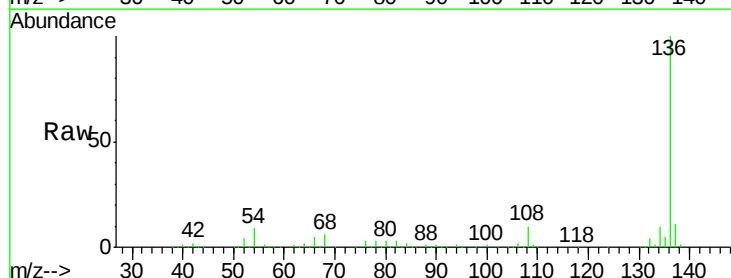
RT: 8.09 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BF101515.D

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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		506120		
137	11.0	8.9	13.3		
54	8.7	6.6	9.8		
68	6.1	5.0	7.4		





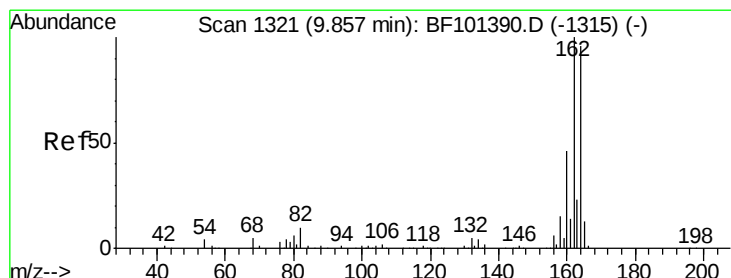
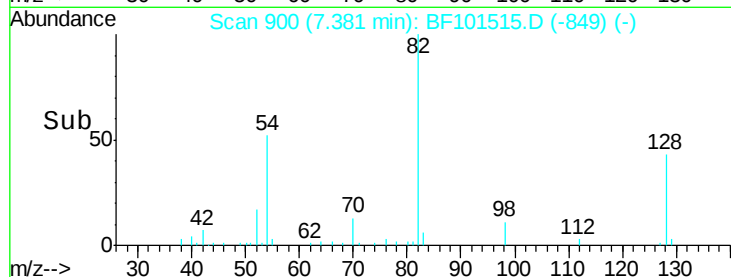
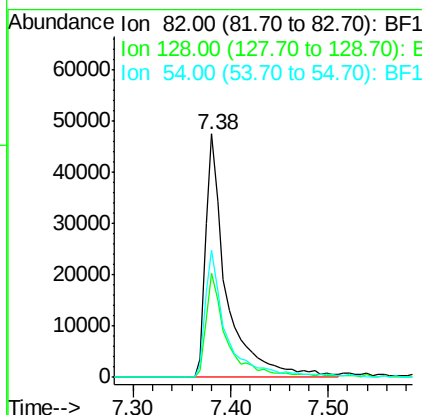
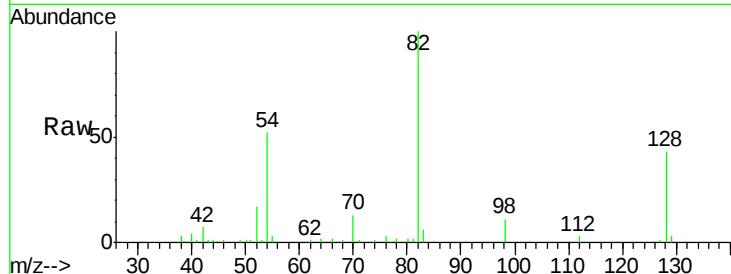
#23
 Nitrobenzene-d5
 Concen: 7.742 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: BF101515.D
 Acq: 19 Dec 2017 9:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)DL2

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.6	36.1	54.1
54	52.0	41.4	62.2

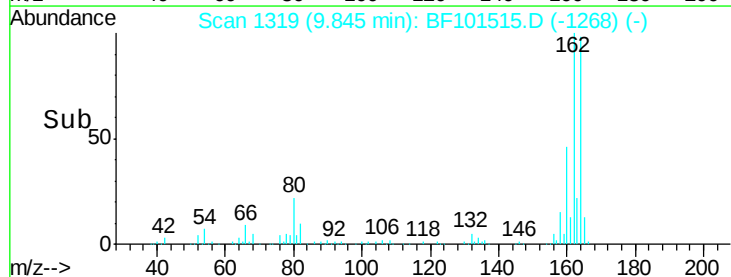
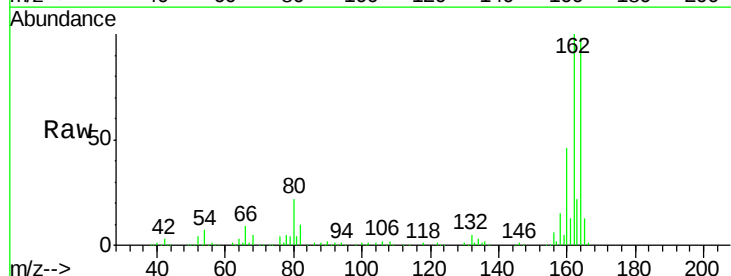
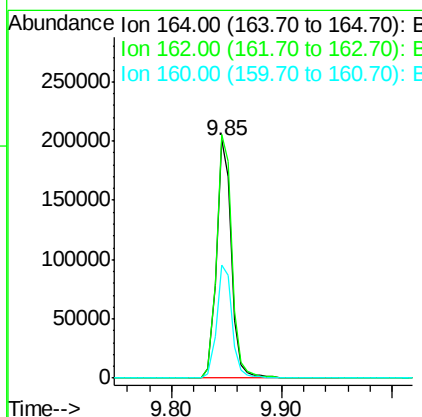
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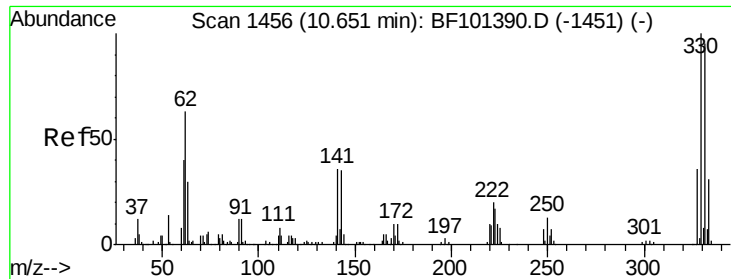
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: BF101515.D
 Acq: 19 Dec 2017 9:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	86.1	129.1
160	47.4	38.3	57.5





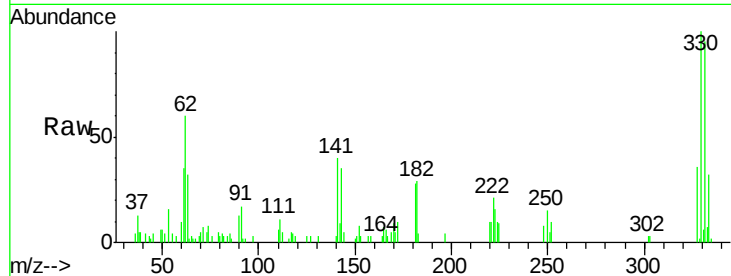
#41
 2,4,6-Tribromophenol
 Concen: 8.953 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. -0.00 min
 Lab File: BF101515.D
 Acq: 19 Dec 2017 9:43

Instrument :
 BNA_F
 ClientSampleID :
 SB-7(13-15)DL2

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	16229		
332	96.8	77.0	115.6	
141	36.7	29.9	44.9	

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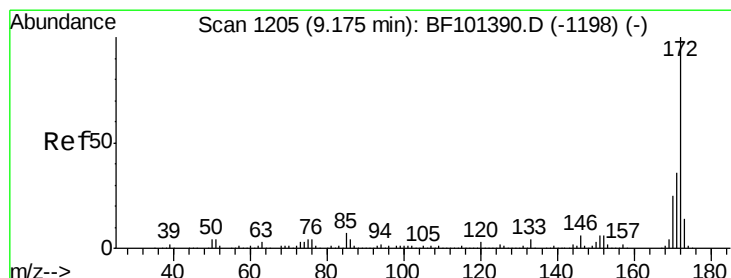
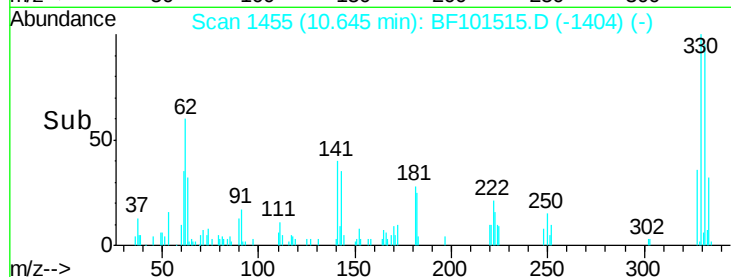
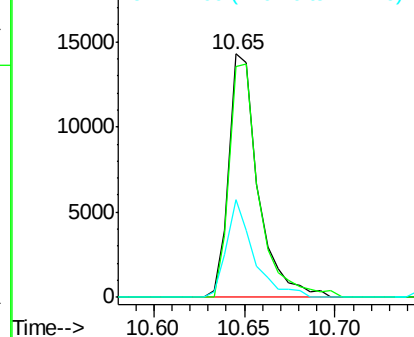


Abundance

Ion 329.80 (329.50 to 330.50): E

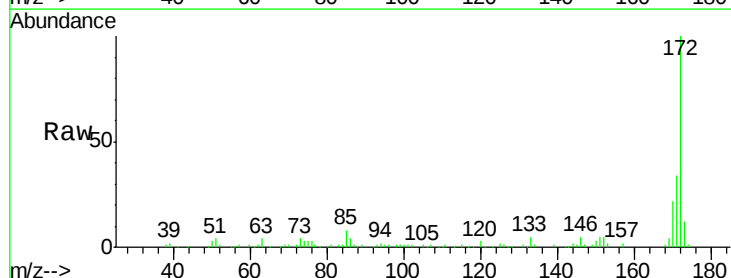
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 9.721 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF101515.D
 Acq: 19 Dec 2017 9:43

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	117883		
171	33.7	29.7	44.5	
170	22.3	19.6	29.4	

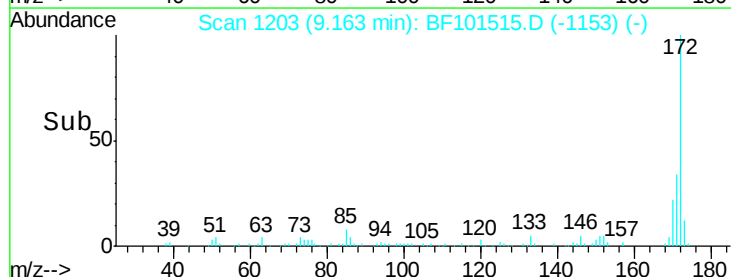
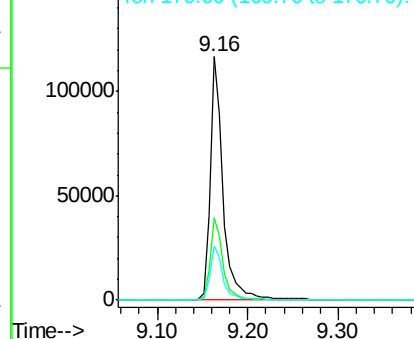


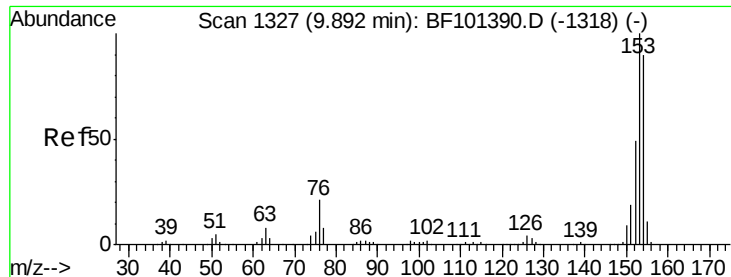
Abundance

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





#51

Acenaphthene

Concen: 2.081 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF101515.D

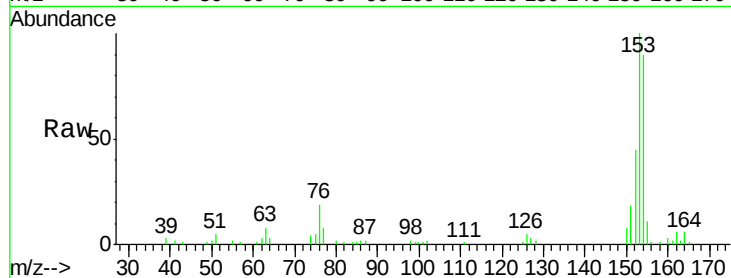
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Instrument :

BNA_F

ClientSampleId :

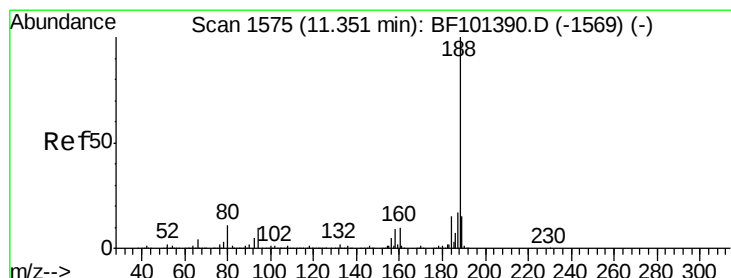
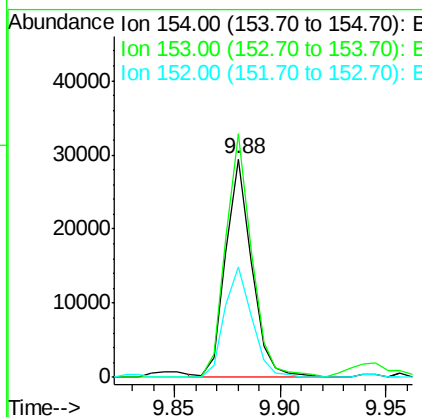
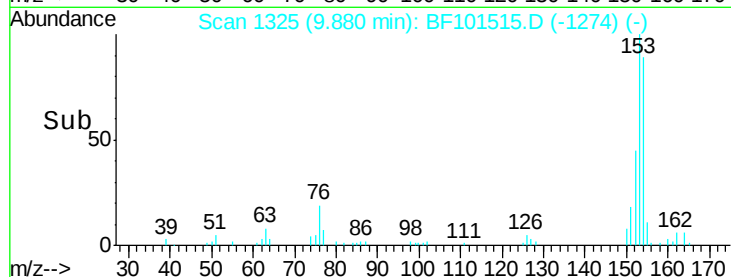
SB-7(13-15)DL2



Tgt Ion	Ratio	Resp	Lower	Upper
154	100	25213		
153	111.6	91.2	136.8	
152	50.6	43.8	65.8	

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#63

Phenanthrene-d10

Concen: 20.000 ng

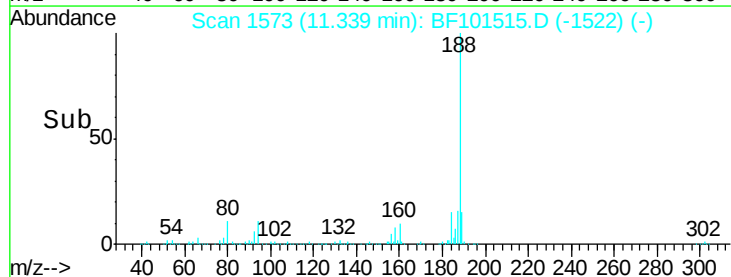
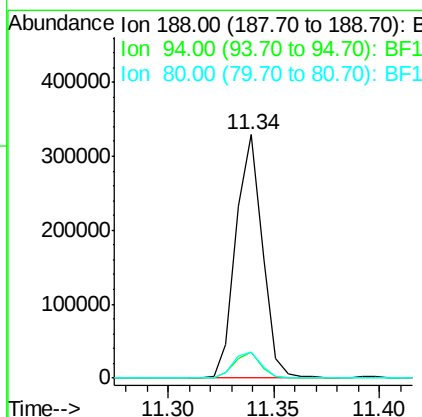
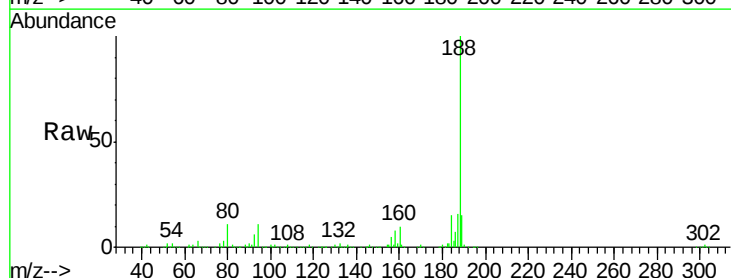
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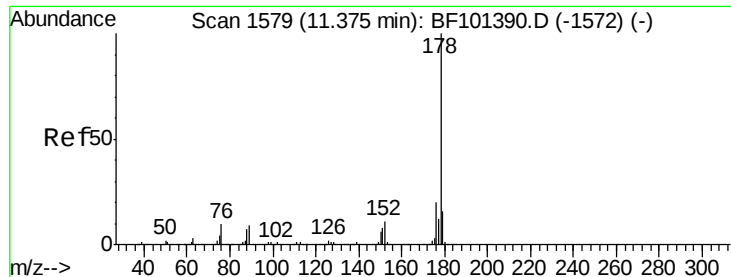
Delta R.T. -0.00 min

Lab File: BF101515.D

Acq: 19 Dec 2017 9:43

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	284761		
94	10.5	8.5	12.7	
80	10.7	9.2	13.8	





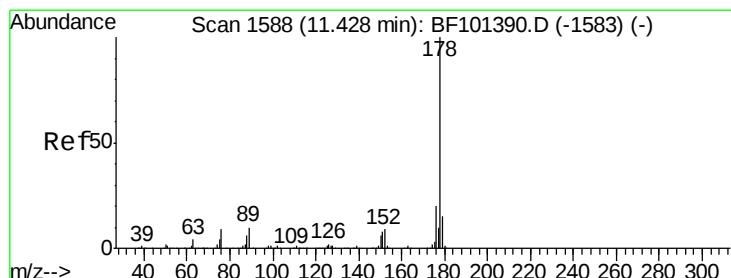
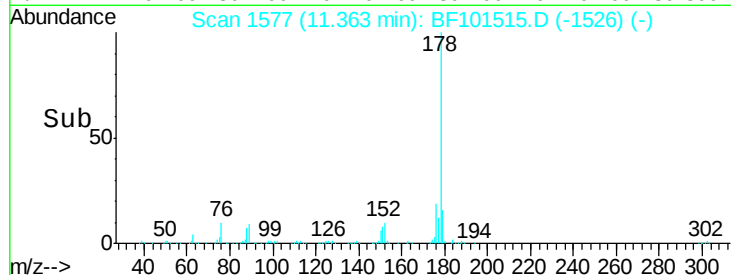
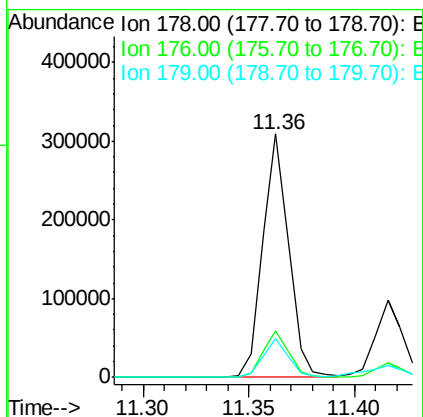
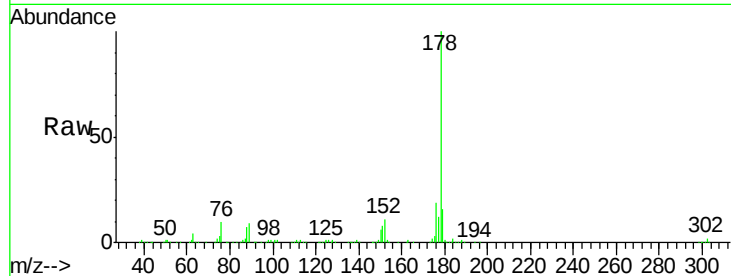
#70
Phenanthrene
Concen: 16.732 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.00 min
Lab File: BF101515.D
Acq: 19 Dec 2017 9:43

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)DL2

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.7	13.0	19.6

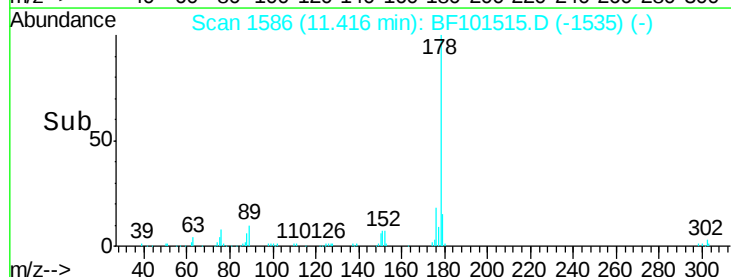
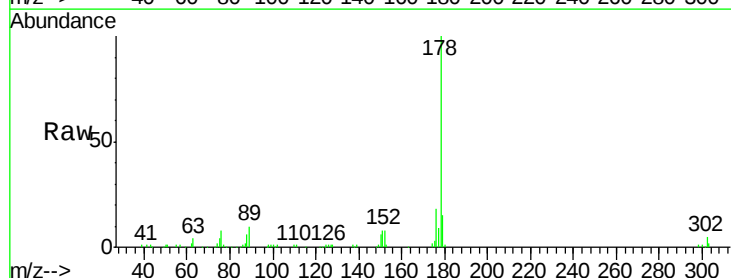
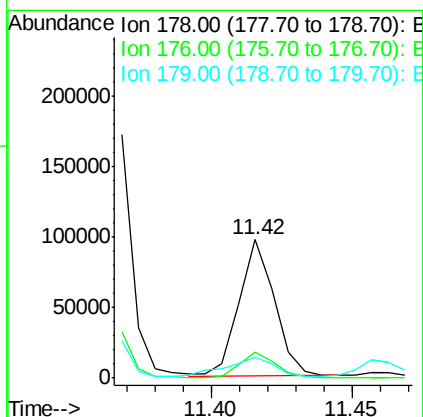
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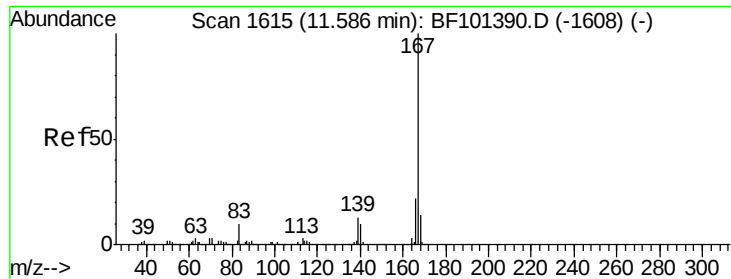
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#71
Anthracene
Concen: 5.258 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.00 min
Lab File: BF101515.D
Acq: 19 Dec 2017 9:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	15.0	12.6	19.0





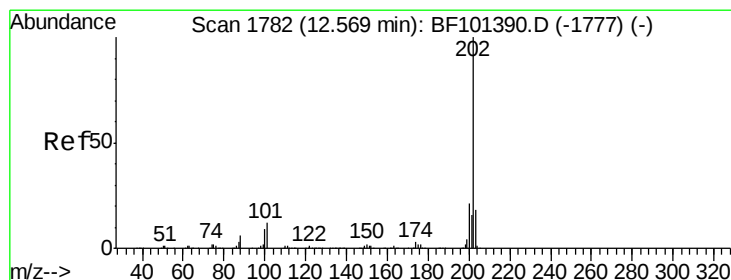
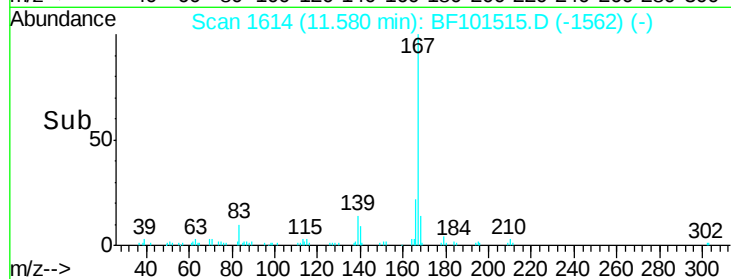
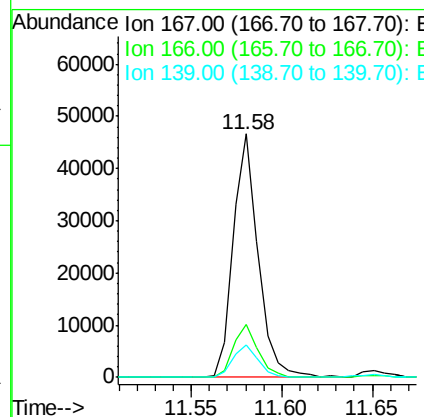
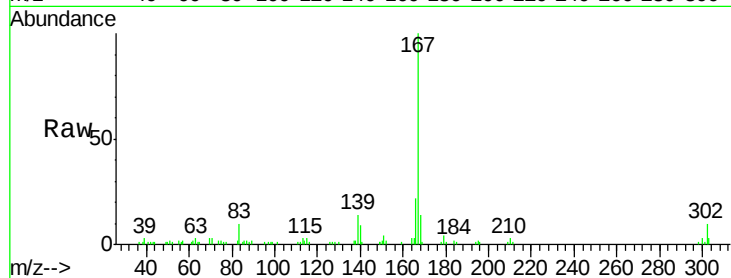
#72
 Carbazole
 Concen: 2.947 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. 0.01 min
 Lab File: BF101515.D
 Acq: 19 Dec 2017 9:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)DL2

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	44628		
166	21.6		17.6	26.4
139	13.5		10.9	16.3

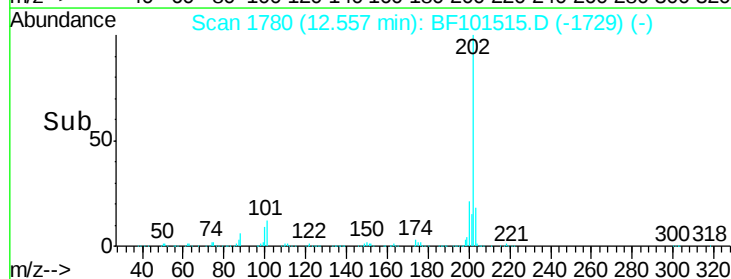
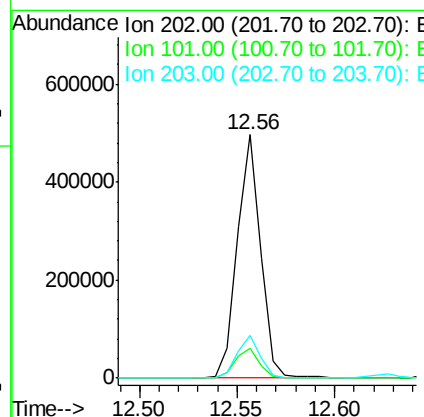
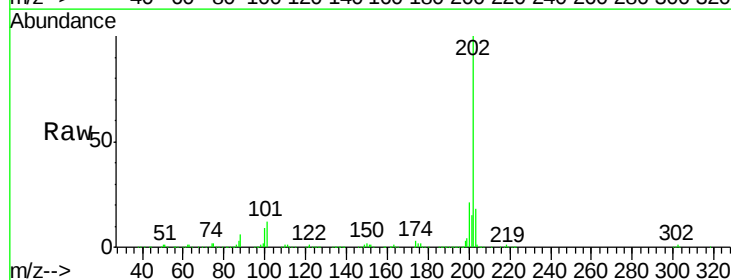
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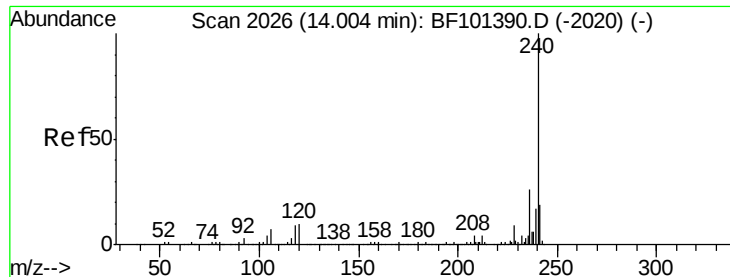
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#74
 Fluoranthene
 Concen: 24.844 ng
 RT: 12.56 min Scan# 1780
 Delta R.T. -0.00 min
 Lab File: BF101515.D
 Acq: 19 Dec 2017 9:43

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	412962		
101	12.4		0.0	34.1
203	17.6		0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.01 min

Lab File: BF101515.D

Acq: 19 Dec 2017 9:43

Instrument :

BNA_F

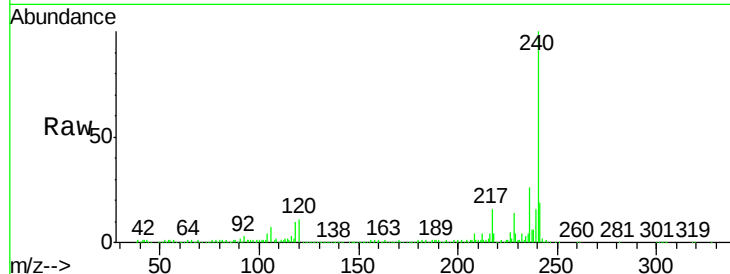
ClientSampleId :

SB-7(13-15)DL2

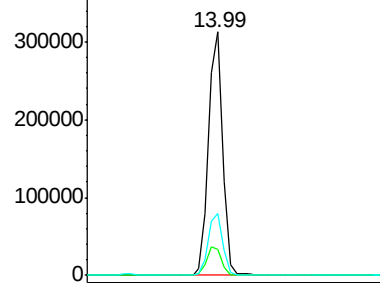
Tgt Ion:	240	Resp:	286418
Ion Ratio	Lower	Upper	
240	100		
120	10.9	9.5	14.3
236	25.5	20.7	31.1

Manual Integrations
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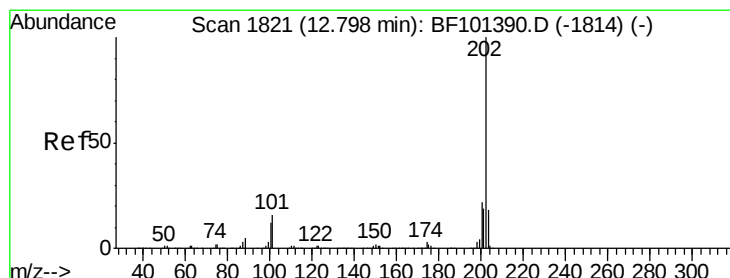
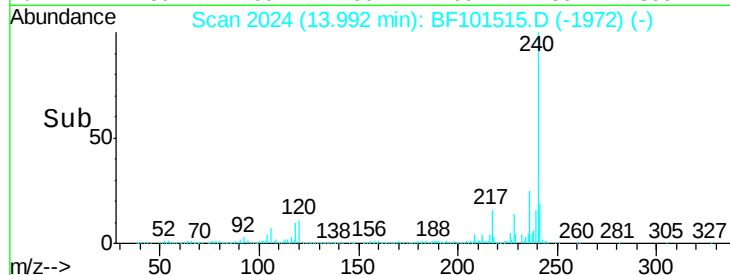
Sohil
12/19/2017 4:50:18 PM



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



Time-->



#77

Pyrene

Concen: 19.217 ng

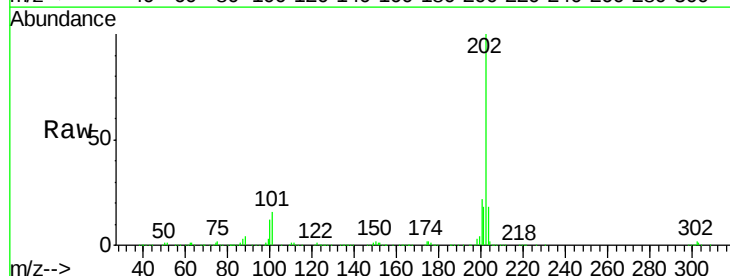
RT: 12.79 min Scan# 1819

Delta R.T. -0.00 min

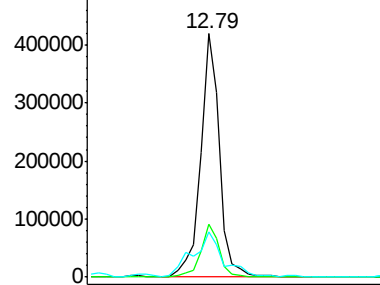
Lab File: BF101515.D

Acq: 19 Dec 2017 9:43

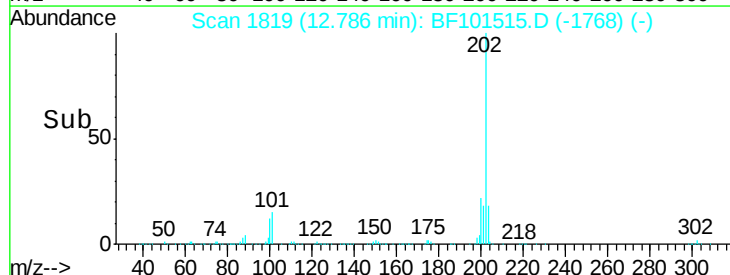
Tgt Ion:	202	Resp:	413080
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	18.4	14.3	21.5

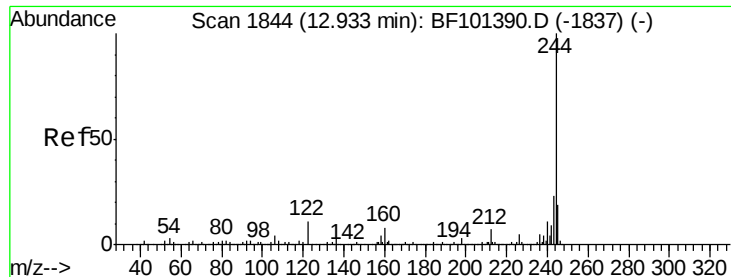


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->





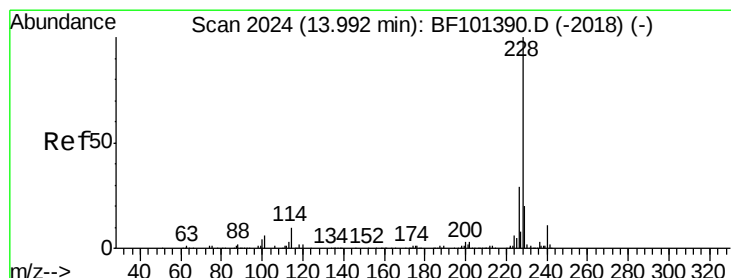
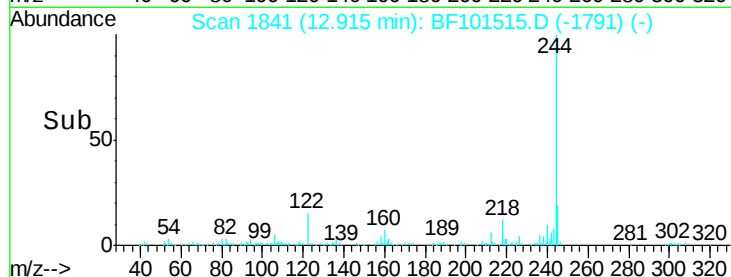
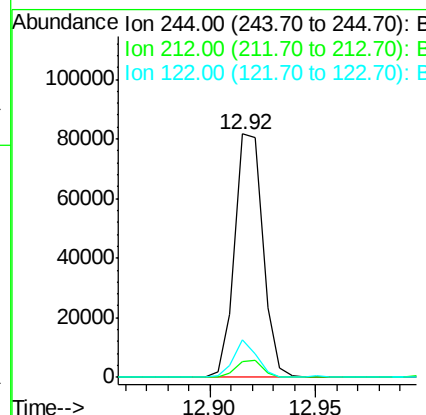
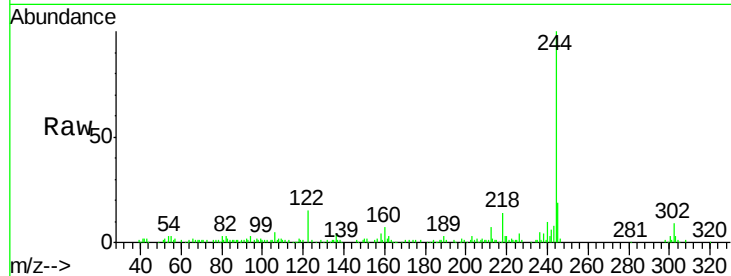
#78
 Terphenyl-d14
 Concen: 6.313 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF101515.D
 Acq: 19 Dec 2017 9:43

Instrument :
 BNA_F
 ClientSampleID :
 SB-7(13-15)DL2

Tgt Ion: 244 Resp: 75006
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 15.3 11.0 16.4

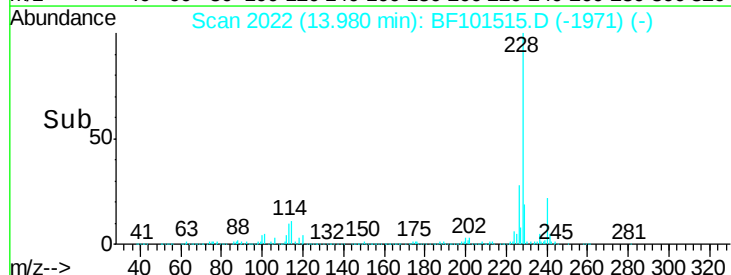
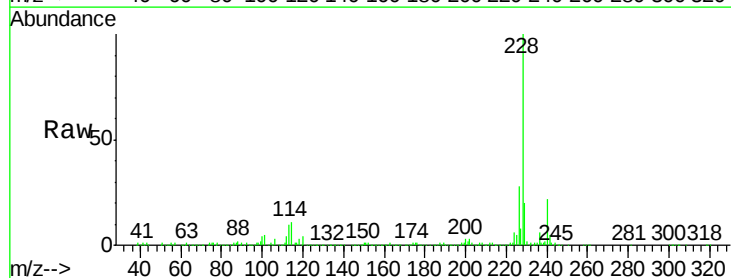
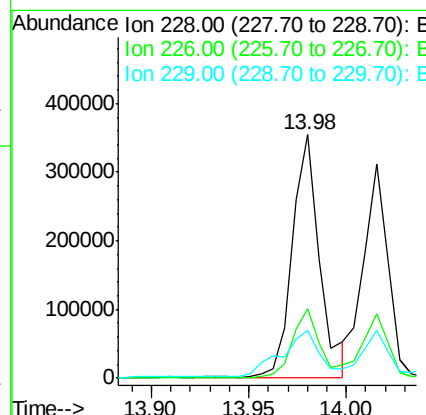
Manual Integrations
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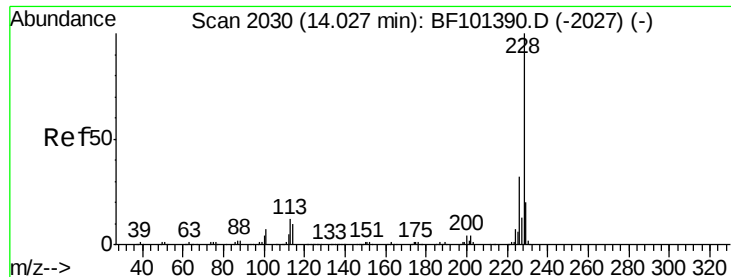
Sohil
 12/19/2017 4:50:18 PM



#80
 Benzo(a)anthracene
 Concen: 18.050 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.00 min
 Lab File: BF101515.D
 Acq: 19 Dec 2017 9:43

Tgt Ion: 228 Resp: 341380
 Ion Ratio Lower Upper
 228 100
 226 28.4 22.6 33.8
 229 19.7 15.8 23.6





#82

Chrysene

Concen: 15.230 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.00 min

Lab File: BF101515.D

Acq: 19 Dec 2017 9:43

Instrument :

BNA_F

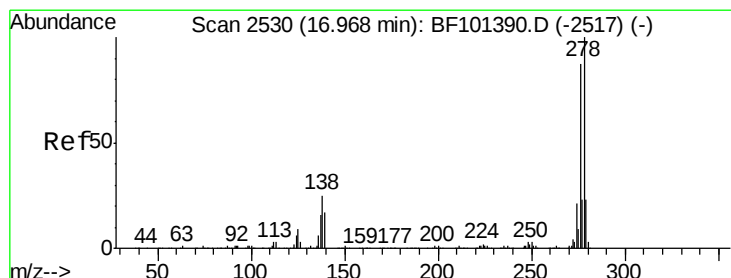
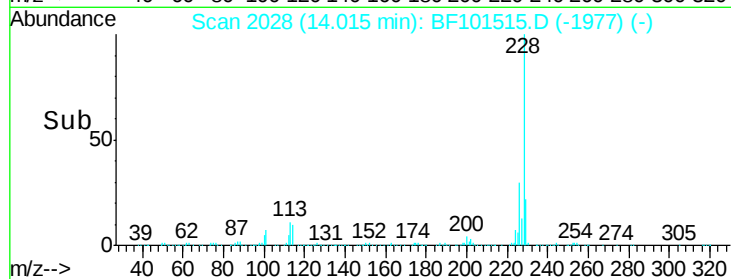
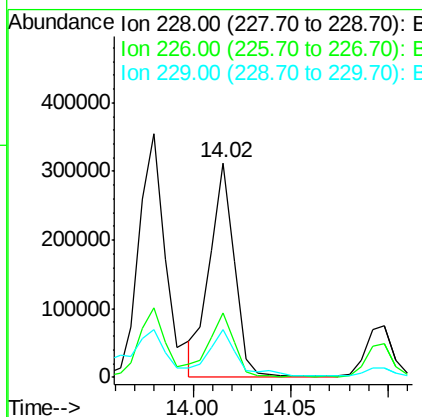
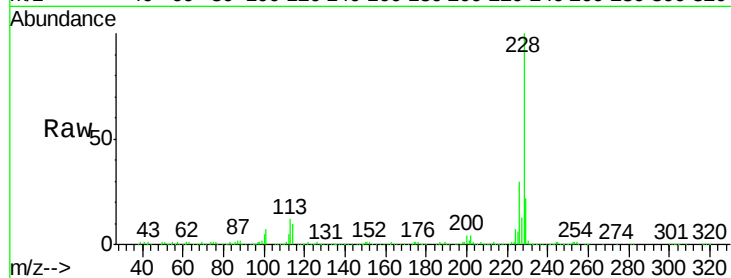
ClientSampleId :

SB-7(13-15)DL2

Tgt Ion:	228	Resp:	271958
Ion Ratio	Lower	Upper	
228	100		
226	30.1	25.0	37.6
229	22.4	16.2	24.4

Manual Integrations
APPROVED

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#85

Indeno(1,2,3-cd)pyrene

Concen: 15.395 ng

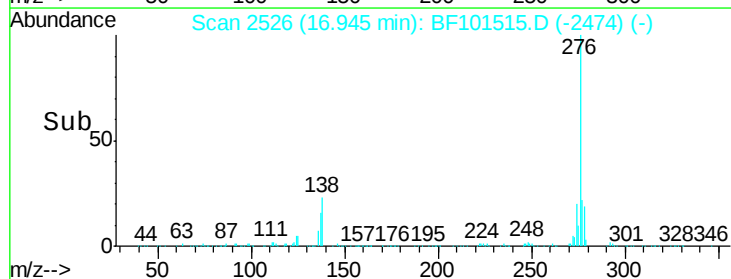
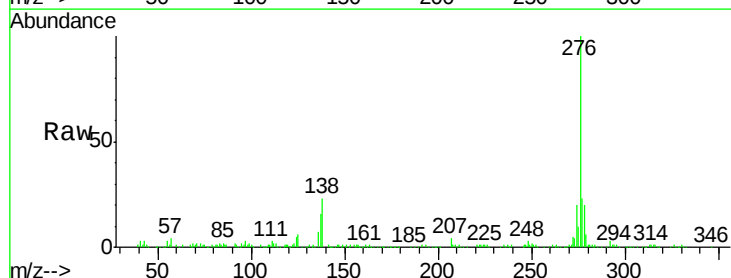
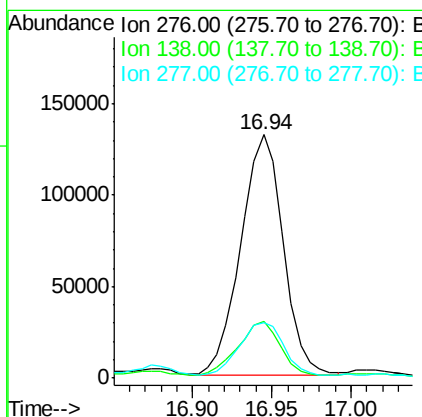
RT: 16.94 min Scan# 2526

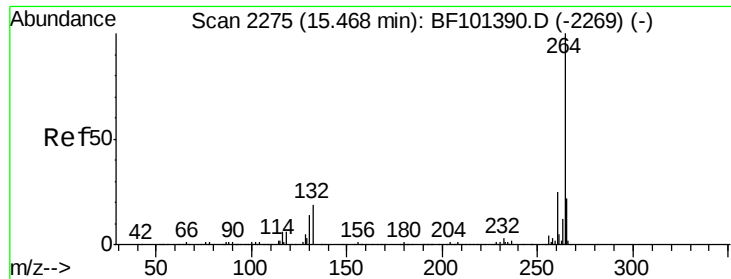
Delta R.T. 0.01 min

Lab File: BF101515.D

Acq: 19 Dec 2017 9:43

Tgt Ion:	276	Resp:	244812
Ion Ratio	Lower	Upper	
276	100		
138	23.4	25.0	37.6#
277	23.1	20.1	30.1





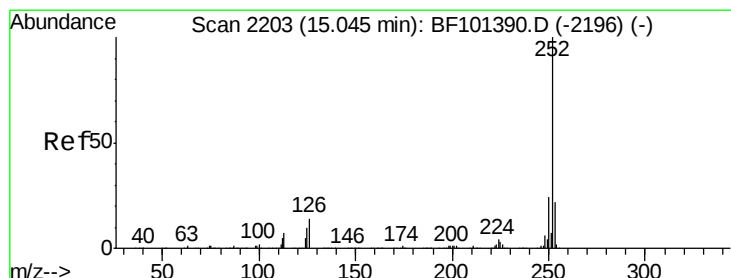
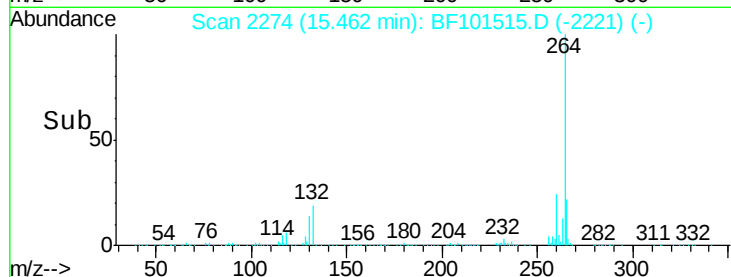
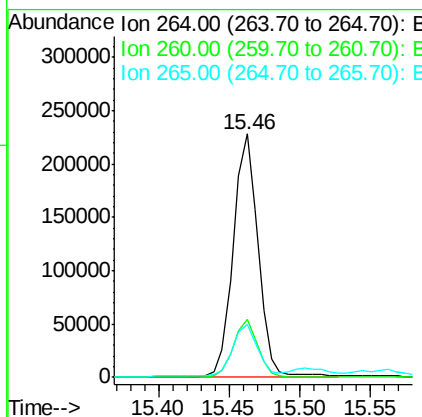
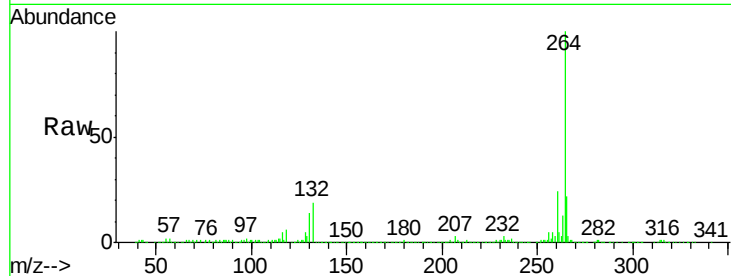
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.01 min
Lab File: BF101515.D
Acq: 19 Dec 2017 9:43

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)DL2

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	276445		
260	24.1	19.2	28.8	
265	22.0	17.5	26.3	

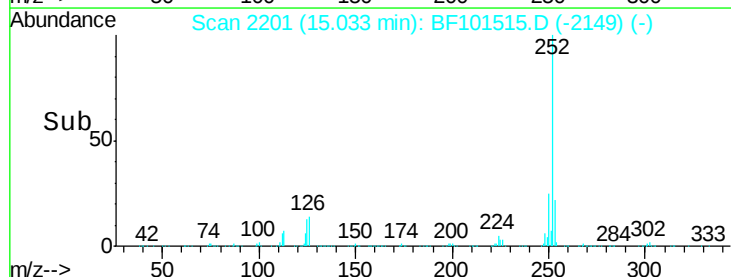
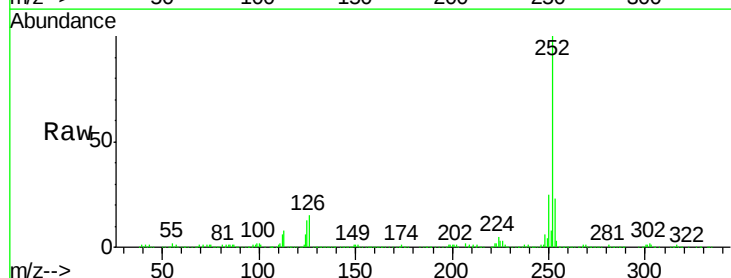
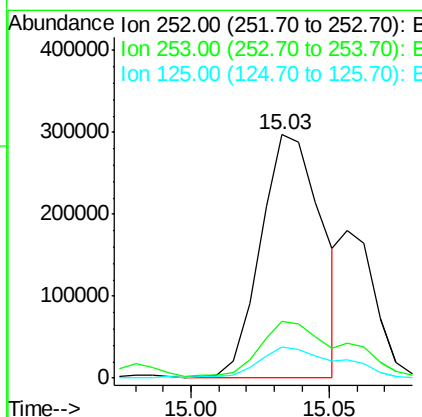
Manual Integrations
APPROVED

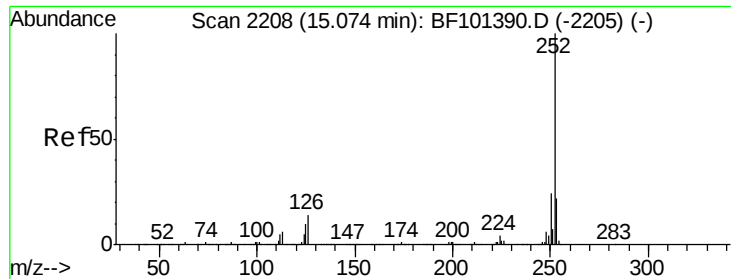
Sohil
12/19/2017 4:50:18 PM



#87
Benzo(b)fluoranthene
Concen: 26.958 ng m
RT: 15.03 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BF101515.D
Acq: 19 Dec 2017 9:43

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	454241		
253	23.1	17.0	25.6	
125	12.9	9.0	13.6	





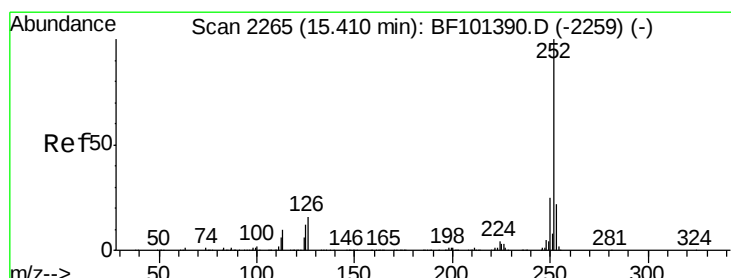
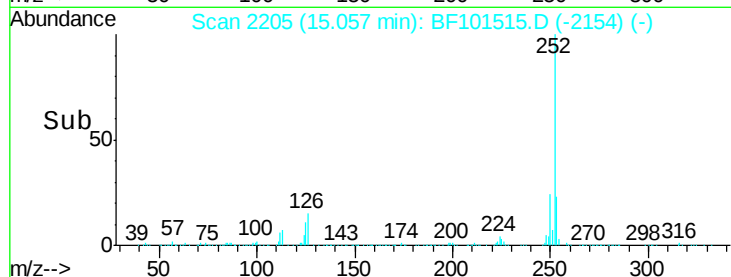
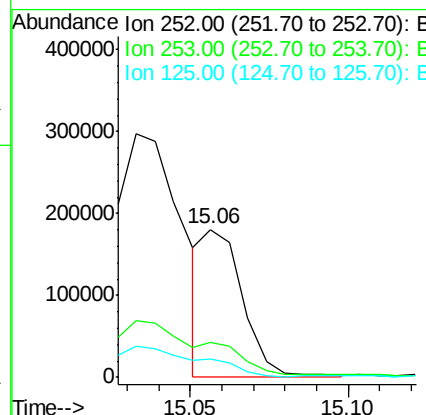
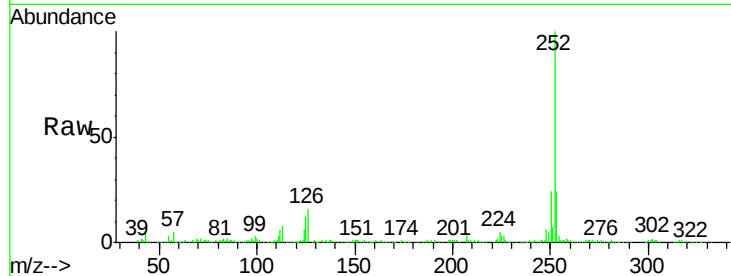
#88
Benzo(k)fluoranthene
Concen: 9.716 ng m
RT: 15.06 min Scan# 2205
Delta R.T. -0.00 min
Lab File: BF101515.D
Acq: 19 Dec 2017 9:43

Instrument :
BNA_F
ClientSampled :
SB-7(13-15)DL2

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	159176		
253	23.7	17.9	26.9	
125	12.0	10.2	15.2	

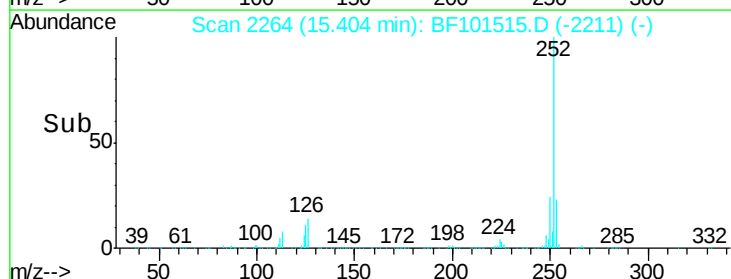
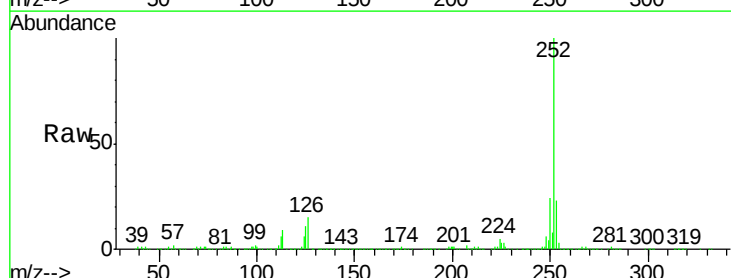
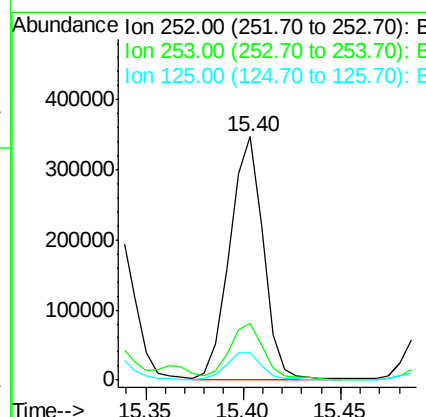
Manual Integrations
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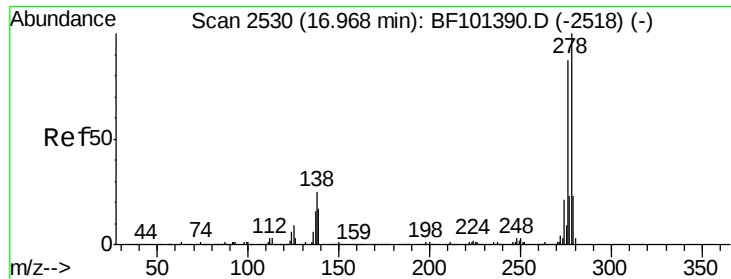
Sohil
12/19/2017 4:50:18 PM



#89
Benzo(a)pyrene
Concen: 26.496 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.01 min
Lab File: BF101515.D
Acq: 19 Dec 2017 9:43

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	411570		
253	23.4	17.1	25.7	
125	11.5	9.8	14.6	





#90

Dibenzo(a,h)anthracene

Concen: 4.625 ng m

RT: 16.94 min Scan# 2525

Delta R.T. -0.00 min

Lab File: BF101515.D

Acq: 19 Dec 2017 9:43

Instrument :

BNA_F

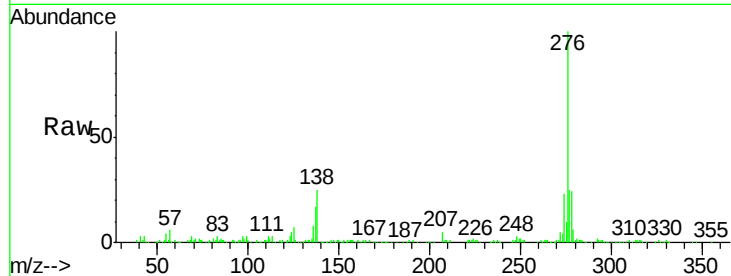
ClientSampleId :

SB-7(13-15)DL2

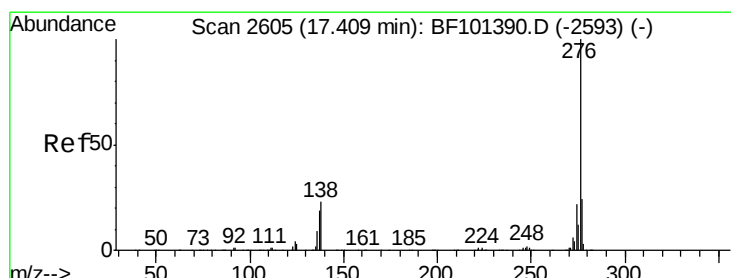
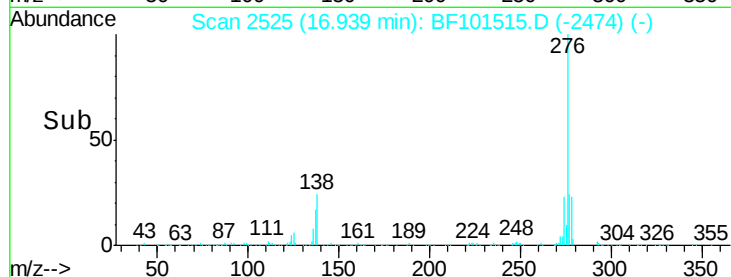
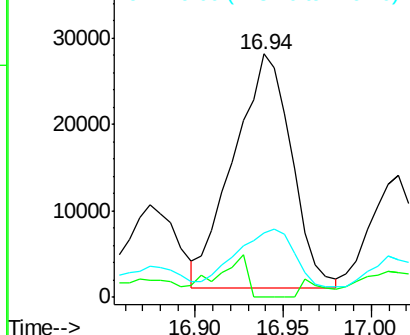
Tgt Ion:	278	Resp:	61680
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	26.2	19.0	28.4

Manual Integrations
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12/19/2017 4:50:18 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 16.776 ng

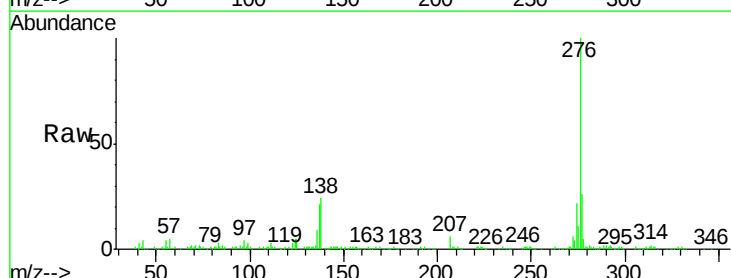
RT: 17.39 min Scan# 2602

Delta R.T. 0.01 min

Lab File: BF101515.D

Acq: 19 Dec 2017 9:43

Tgt Ion:	276	Resp:	221541
Ion Ratio	Lower	Upper	
276	100		
277	25.7	17.9	26.9
138	23.8	21.8	32.8



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

