

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121517\
 Data File : BF101443.D
 Acq On : 15 Dec 2017 15:24
 Operator : SJ/JU
 Sample : I6840-01 20X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-41446854-02

Manual Integrations
 APPROVED

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 12/15/2017 7:50:50
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Quant Time: Dec 15 17:49:50 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 15 17:36:17 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	170044	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	700605	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	317235	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	561423	20.00	ng	0.00
75) Chrysene-d12	14.00	240	357393	20.00	ng	0.00
86) Perylene-d12	15.47	264	351097	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	62693	5.49	ng	0.02
7) Phenol-d6	6.46	99	83509	5.88	ng	0.00
23) Nitrobenzene-d5	7.39	82	49810	3.96	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	16172	5.29	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	86264	4.22	ng	0.00
78) Terphenyl-d14	12.93	244	66350	4.48	ng	0.00
Target Compounds						
31) Naphthalene	8.12	128	382723	10.851	ng	Qvalue 100
37) 2-Methylnaphthalene	8.81	142	133185	5.796	ng	100
48) Acenaphthylene	9.72	152	136342	4.010	ng	98
51) Acenaphthene	9.89	154	196526	9.620	ng	99
54) Dibenzofuran	10.06	168	57579	2.218	ng	# 84
57) Fluorene	10.40	166	192912	8.784	ng	99
70) Phenanthrene	11.37	178	1037182	33.220	ng	99
71) Anthracene	11.42	178	303096	9.504	ng	99
74) Fluoranthene	12.57	202	742269	22.650	ng	97
77) Pyrene	12.80	202	1003420	37.410	ng	99
80) Benzo(a)anthracene	13.99	228	331369	14.042	ng	# 91
82) Chrysene	14.02	228	278482	12.498	ng	96
83) Bis(2-ethylhexyl)phthalate	13.95	149	61426	3.996	ng	96
85) Indeno(1,2,3-cd)pyrene	16.95	276	141038	7.108	ng	# 92
87) Benzo(b)fluoranthene	15.04	252	290540m	13.577	ng	
88) Benzo(k)fluoranthene	15.06	252	93877m	4.512	ng	
89) Benzo(a)pyrene	15.40	252	257387	13.047	ng	96
90) Dibenzo(a,h)anthracene	16.94	278	39445m	2.329	ng	
91) Benzo(g,h,i)perylene	17.40	276	169001	10.076	ng	96

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

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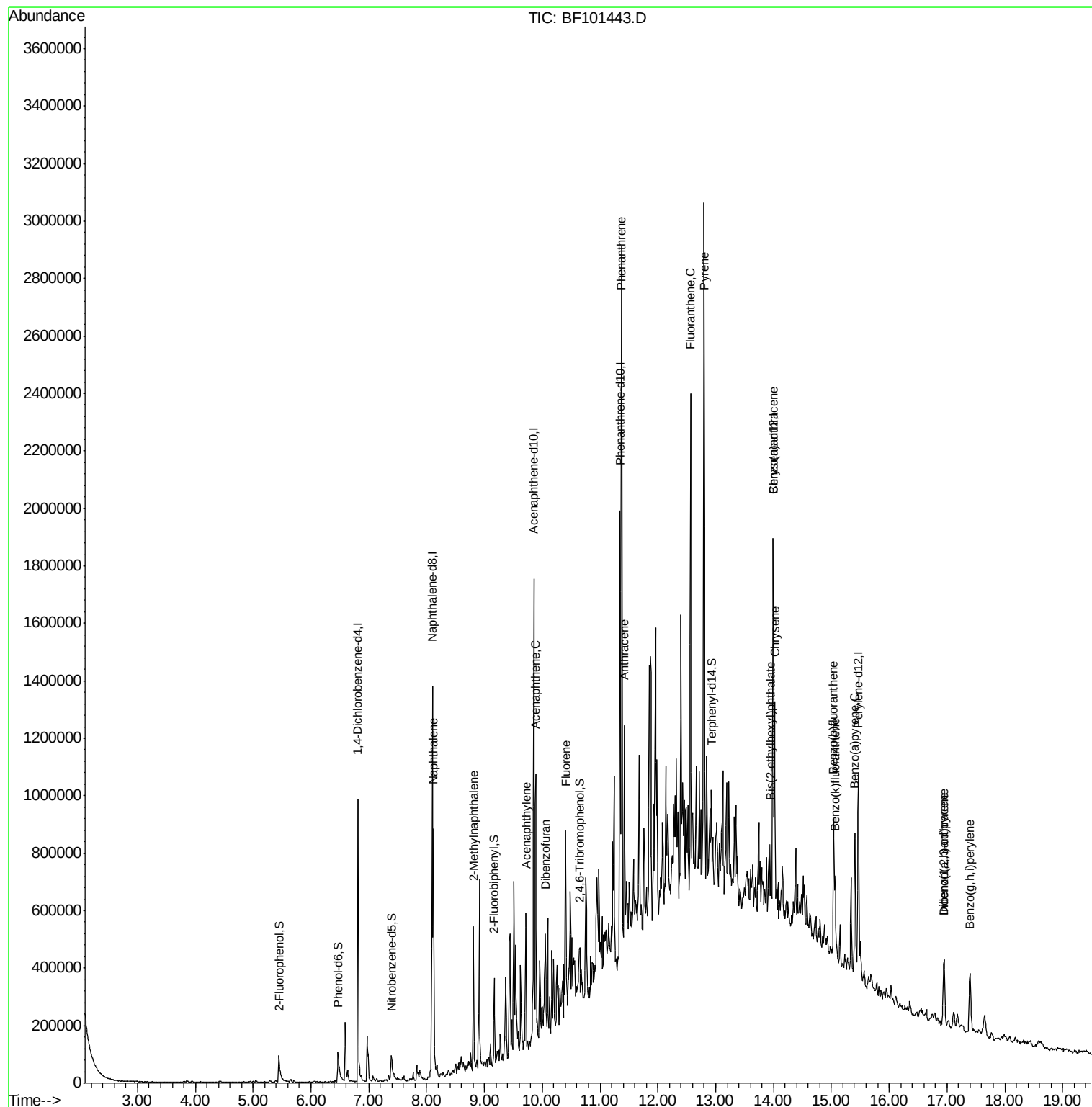
Instrument :
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ClientSampleId :
WC-41446854-02

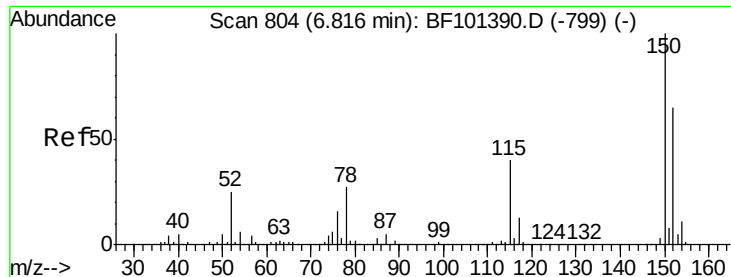
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 15 17:36:17 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

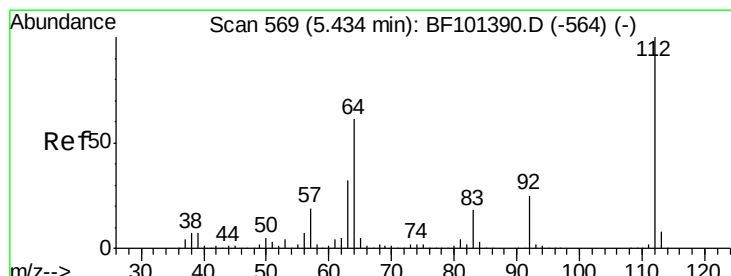
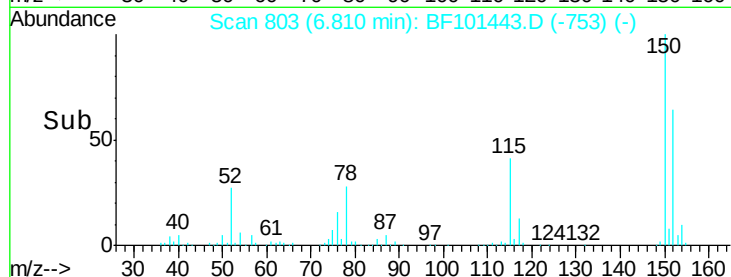
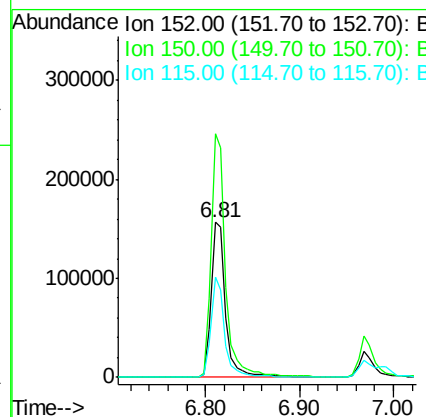
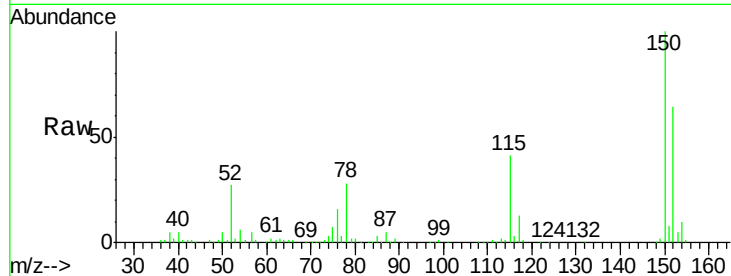
Instrument :
BNA_F
ClientSampleId :
WC-41446854-02

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.6	186.8
115	64.6	50.1	75.1

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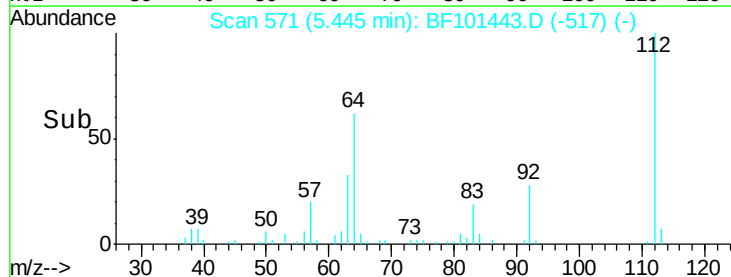
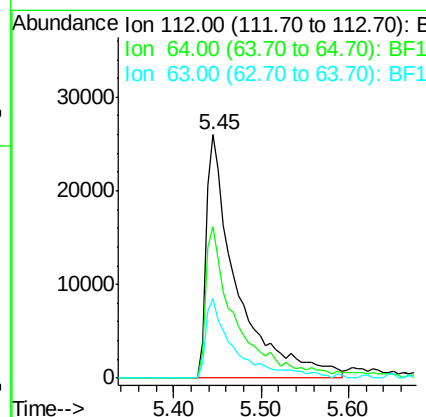
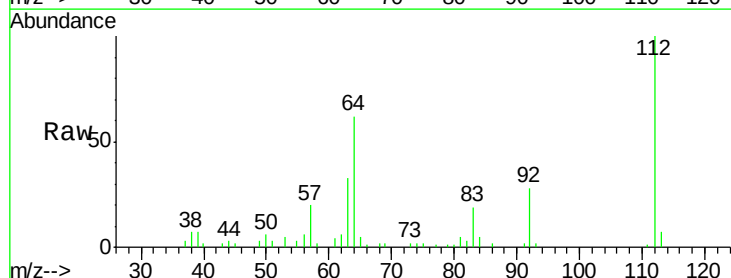
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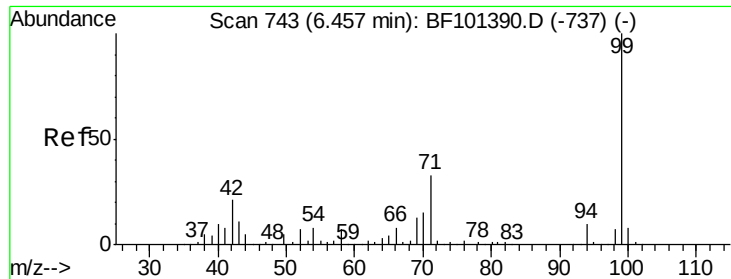


#5

2-Fluorophenol
Concen: 5.492 ng
RT: 5.45 min Scan# 571
Delta R.T. 0.02 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.0	47.9	71.9
63	32.7	23.7	35.5





#7

Phenol-d6

Concen: 5.878 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Instrument :

BNA_F

ClientSampleId :

WC-41446854-02

Tgt Ion: 99 Resp: 83509

Ion Ratio Lower Upper

99 100

42 22.3 14.5 21.7#

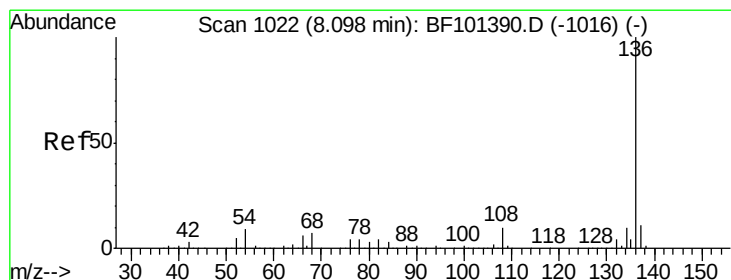
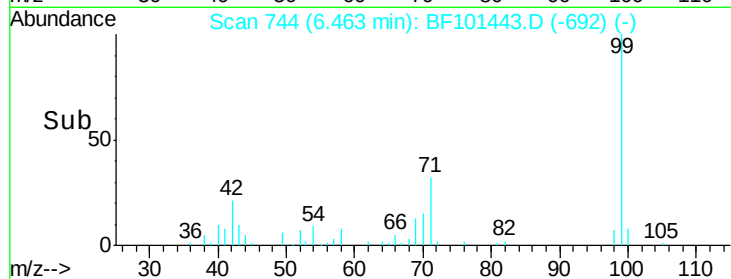
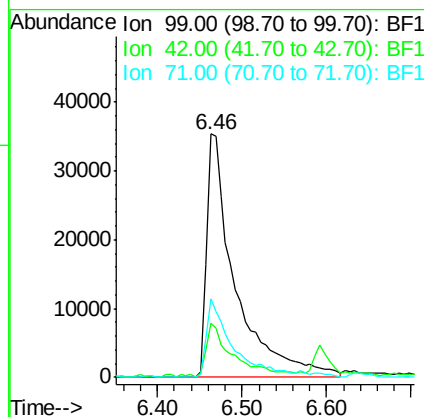
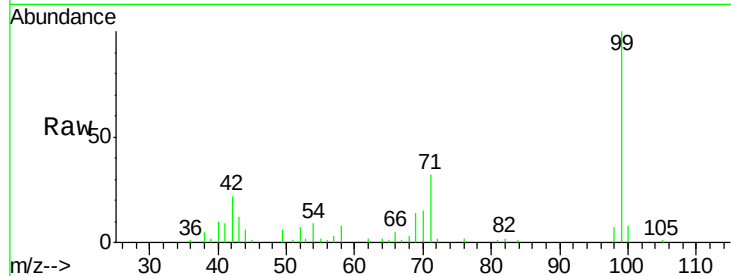
71 32.1 25.4 38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.00 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Tgt Ion: 136 Resp: 700605

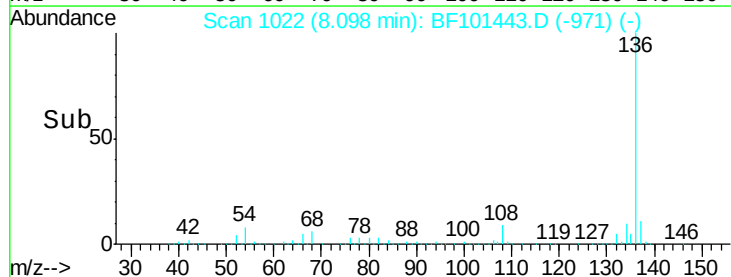
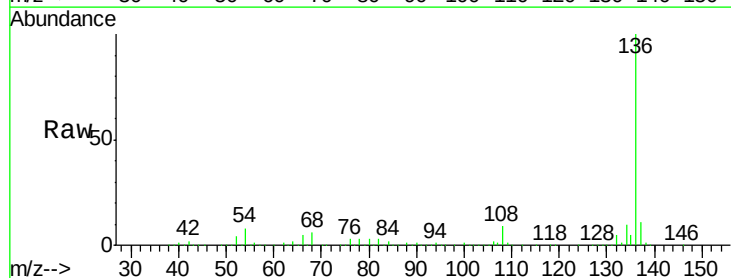
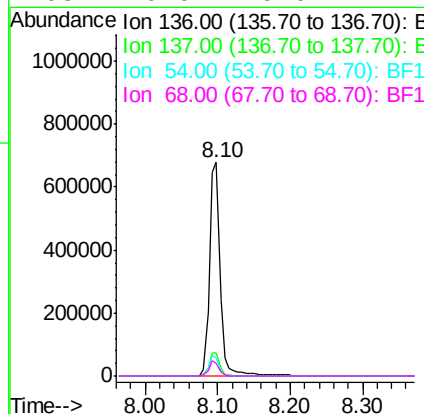
Ion Ratio Lower Upper

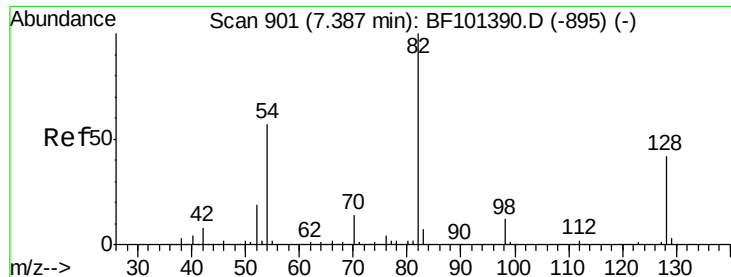
136 100

137 10.9 8.9 13.3

54 8.3 6.6 9.8

68 6.0 5.0 7.4





#23
Nitrobenzene-d5
Concen: 3.958 ng
RT: 7.39 min Scan# 902
Delta R.T. 0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

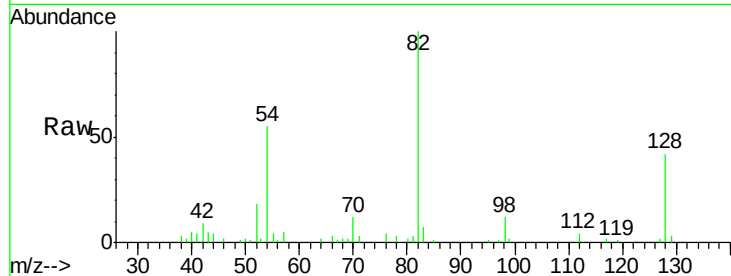
Instrument :
BNA_F
ClientSampleId :
WC-41446854-02

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.4	36.1	54.1
54	55.2	41.4	62.2

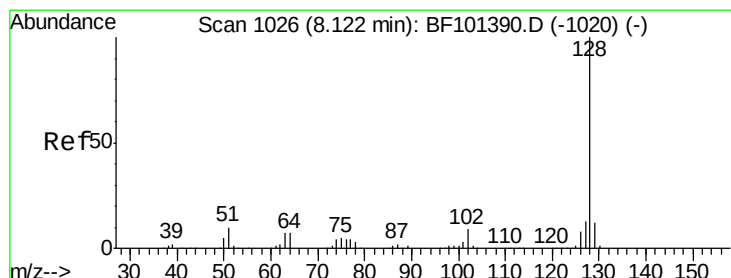
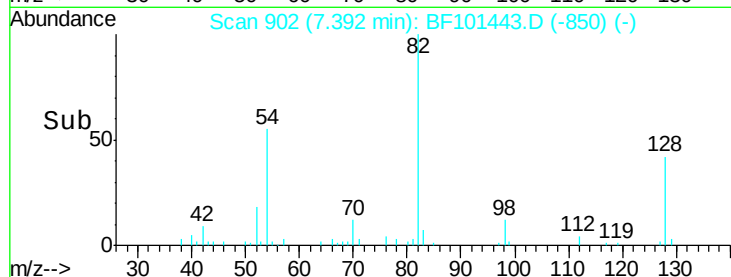
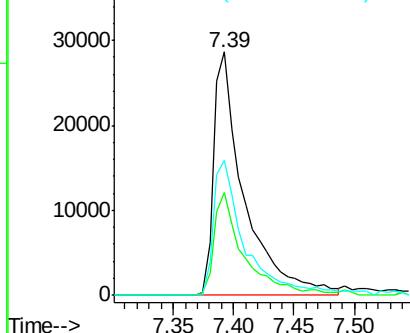
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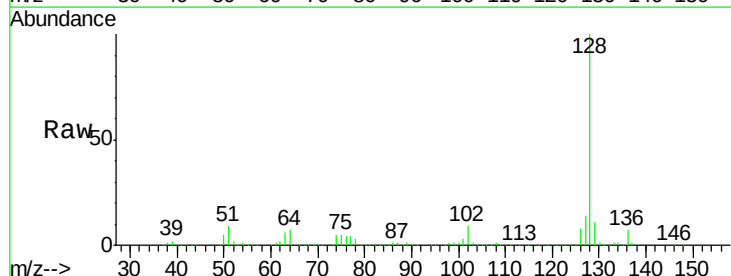


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

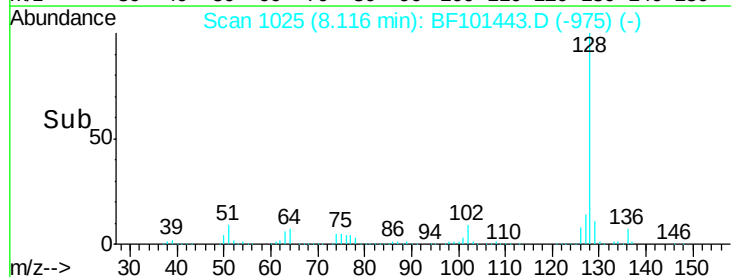
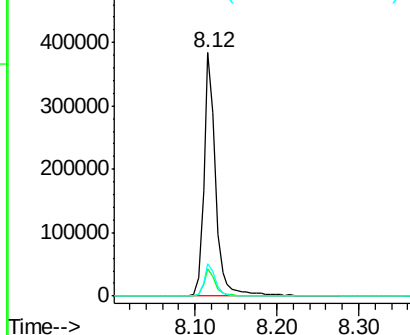


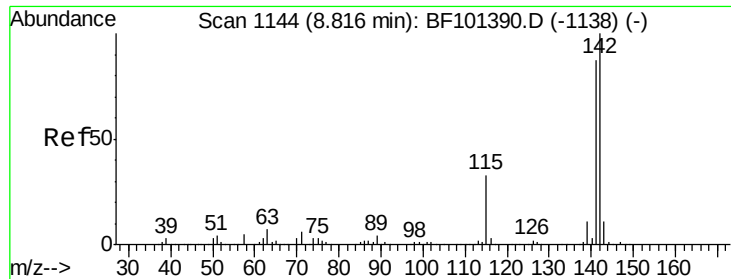
#31
Naphthalene
Concen: 10.851 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.6	10.9	16.3



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#37
2-Methylnaphthalene
Concen: 5.796 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.00 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

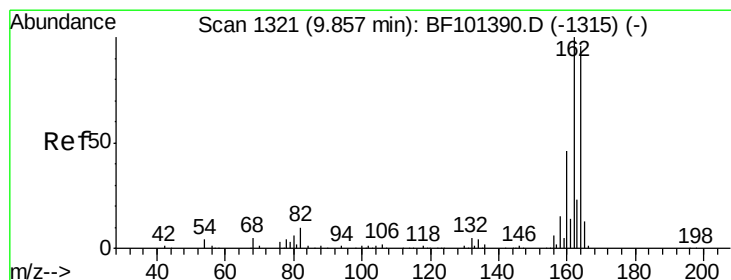
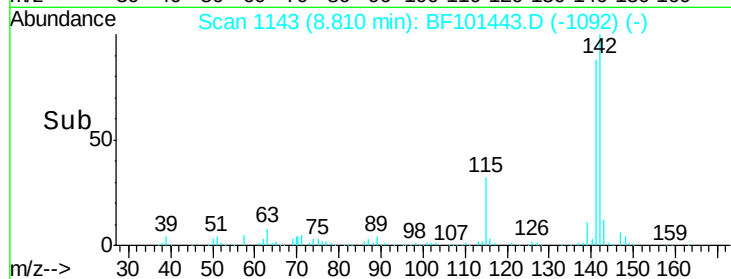
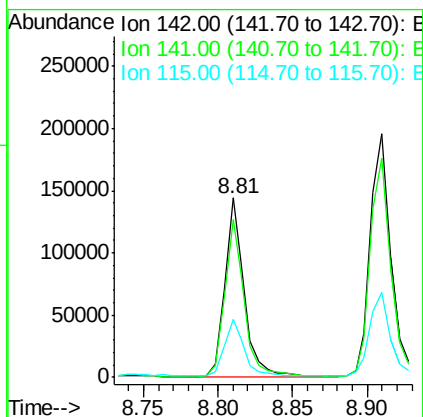
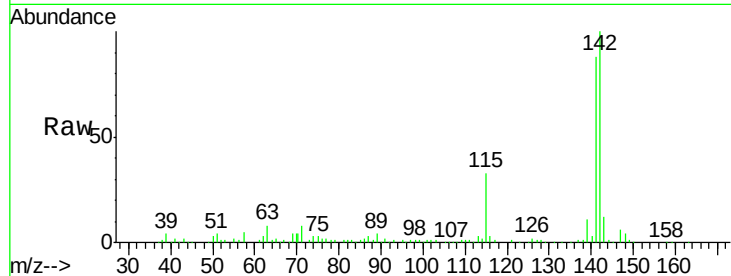
Instrument :
BNA_F
ClientSampleId :
WC-41446854-02

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.8	106.2
115	32.6	26.1	39.1

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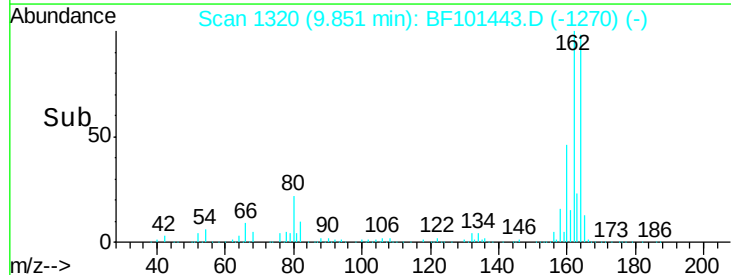
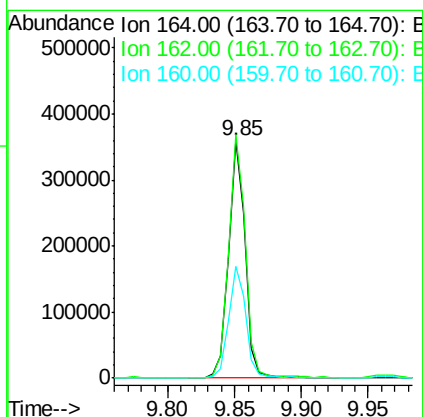
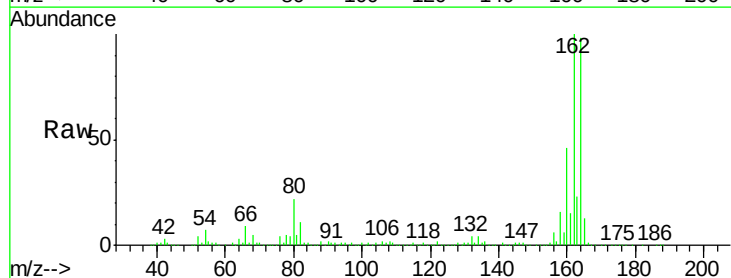
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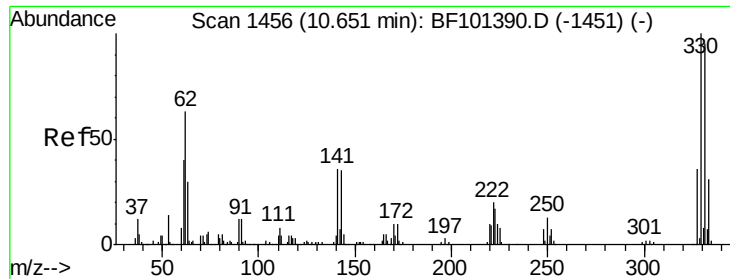
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	86.1	129.1
160	46.9	38.3	57.5





#41
 2,4,6-Tribromophenol
 Concen: 5.290 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. -0.00 min
 Lab File: BF101443.D
 Acq: 15 Dec 2017 15:24

Instrument :
 BNA_F
 ClientSampleId :
 WC-41446854-02

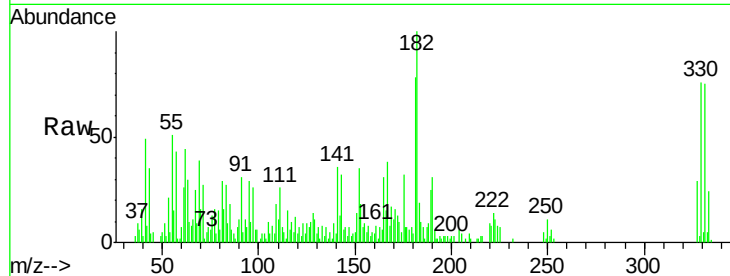
Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	77.0	115.6
141	45.2	29.9	44.9

Manual Integrations
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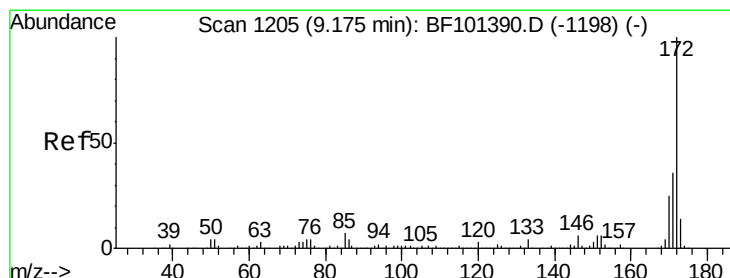
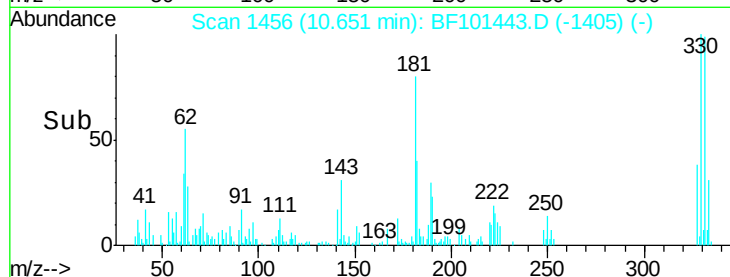
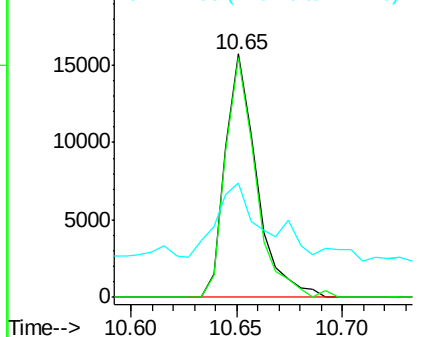


Abundance

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: 4.218 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF101443.D
 Acq: 15 Dec 2017 15:24

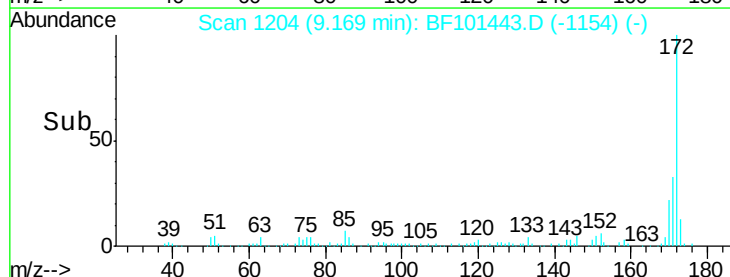
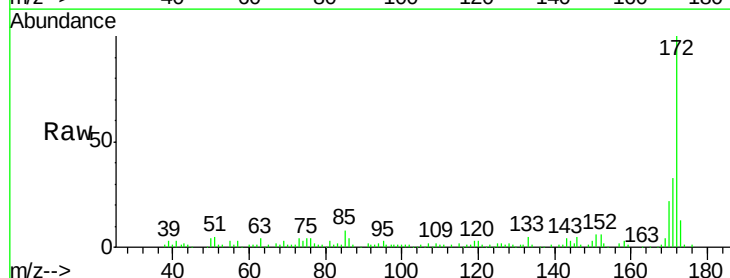
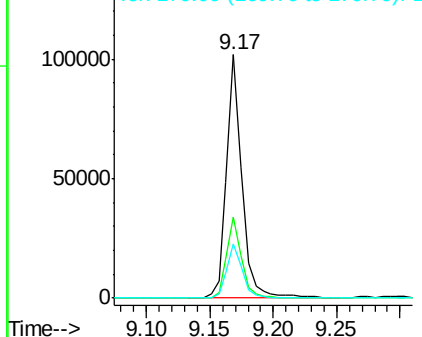
Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.4	29.7	44.5
170	22.2	19.6	29.4

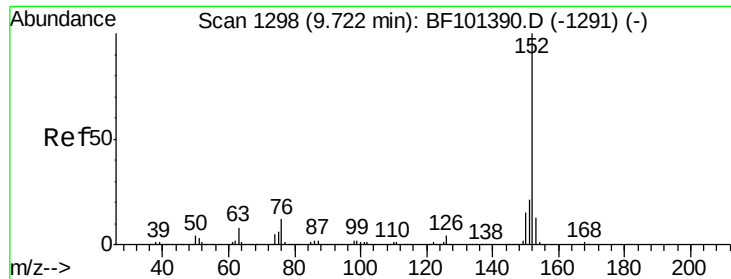
Abundance

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





#48
Acenaphthylene
Concen: 4.010 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

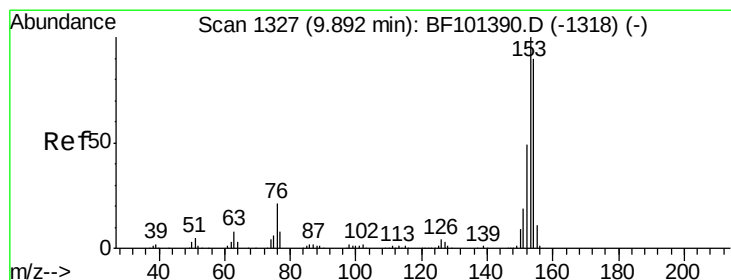
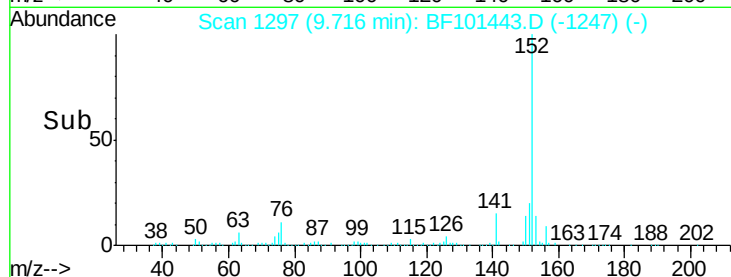
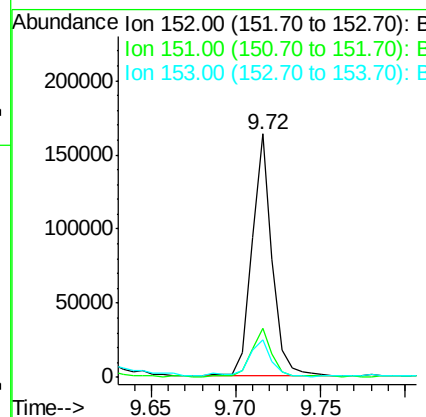
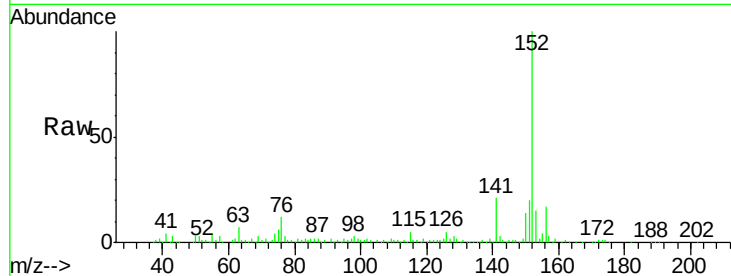
Instrument :
BNA_F
ClientSampleId :
WC-41446854-02

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	136342		
151	20.3	16.3	24.5	
153	15.3	10.7	16.1	

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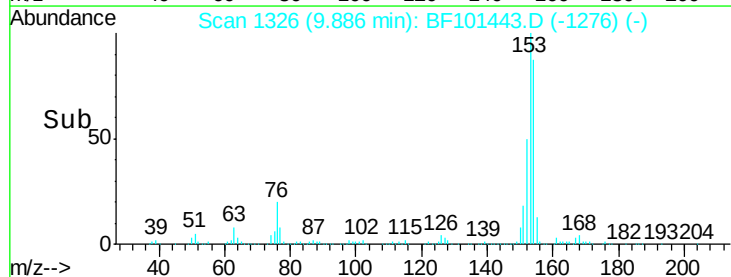
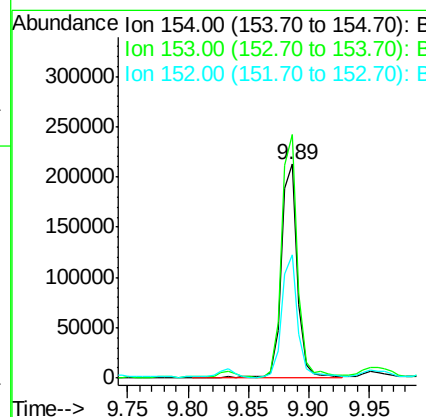
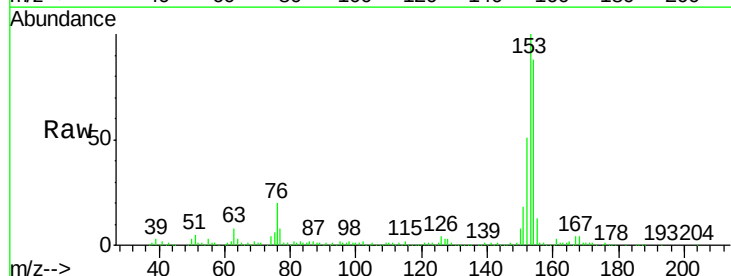
Sohi

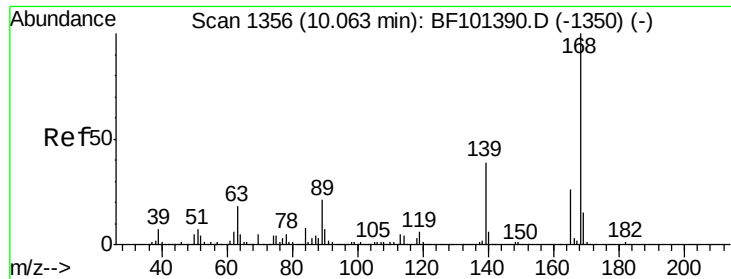
12/15/2017 7:50:50
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#51
Acenaphthene
Concen: 9.620 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	196526		
153	113.9	91.2	136.8	
152	57.6	43.8	65.8	





#54

Dibenzenofuran

Concen: 2.218 ng

RT: 10.06 min Scan# 1355

Delta R.T. -0.01 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Instrument :

BNA_F

ClientSampleId :

WC-41446854-02

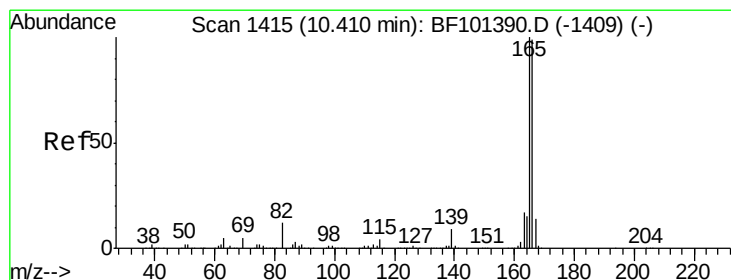
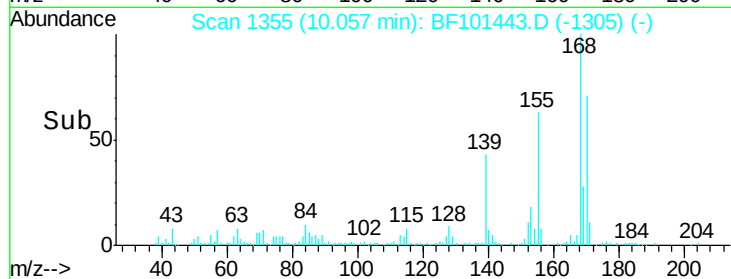
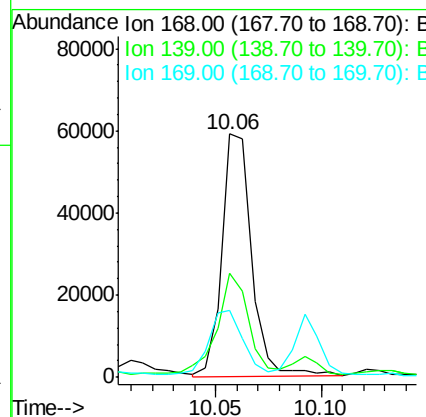
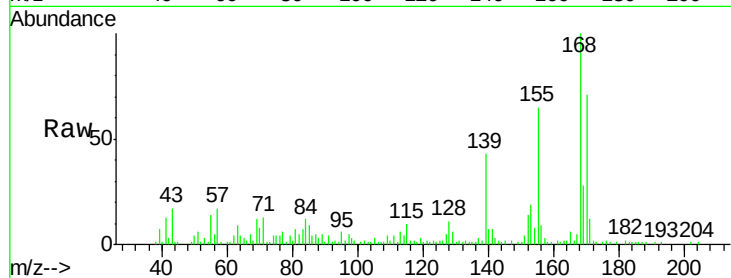
Tgt Ion:	168	Resp:	57579
Ion Ratio	Lower	Upper	
168	100		
139	42.8	30.1	45.1
169	27.5	10.9	16.3#

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#57

Fluorene

Concen: 8.784 ng

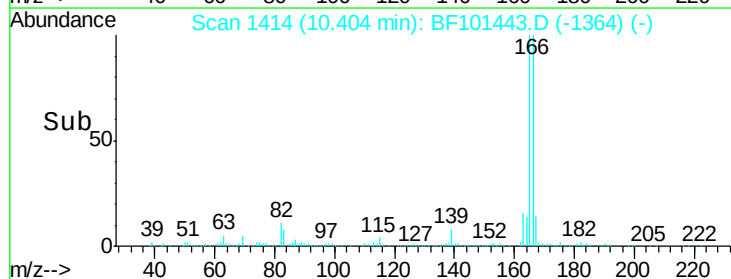
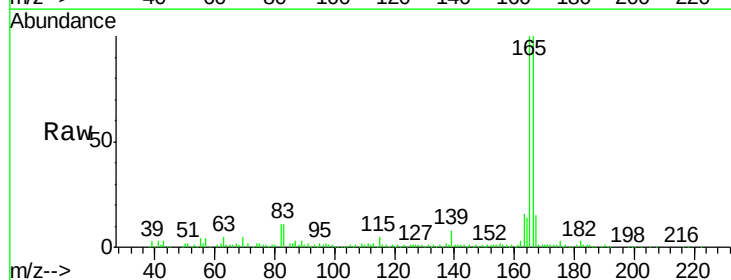
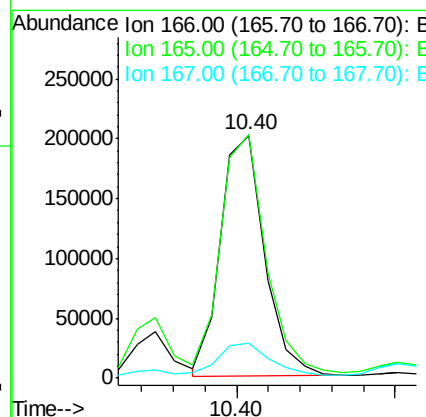
RT: 10.40 min Scan# 1414

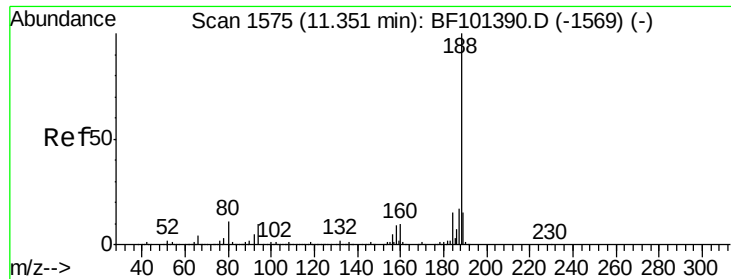
Delta R.T. -0.01 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Tgt Ion:	166	Resp:	192912
Ion Ratio	Lower	Upper	
166	100		
165	100.4	79.8	119.8
167	14.6	10.6	16.0





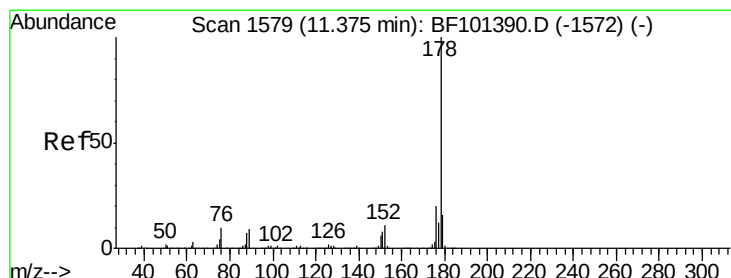
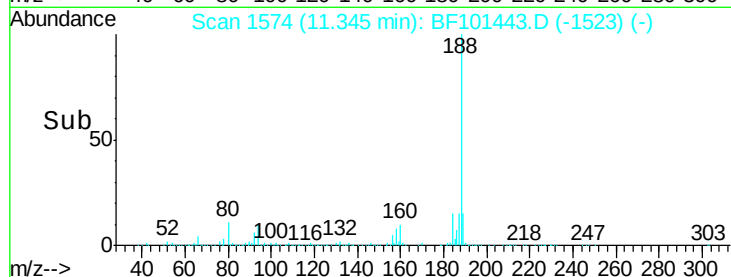
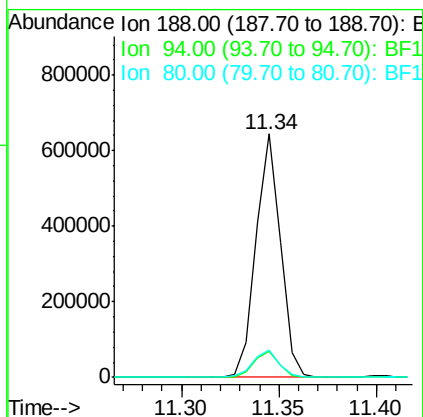
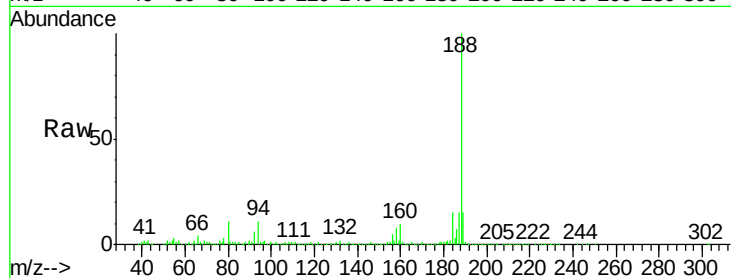
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1574
Delta R.T. -0.00 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

Instrument :
BNA_F
ClientSampleId :
WC-41446854-02

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.6	8.5	12.7
80	11.3	9.2	13.8

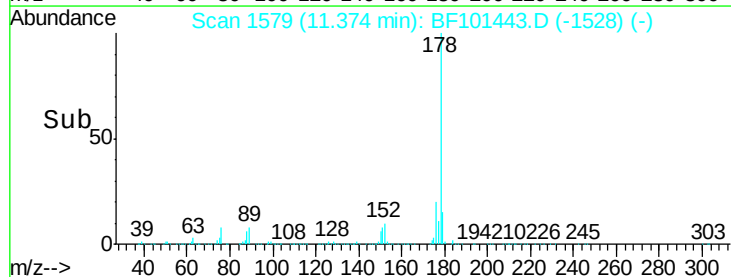
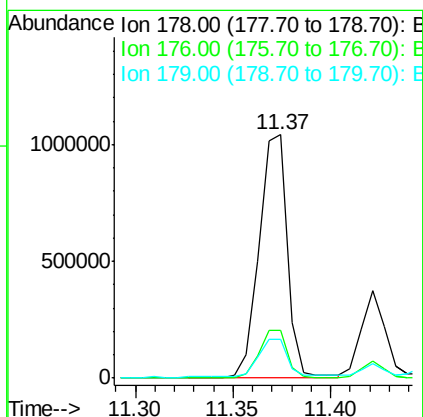
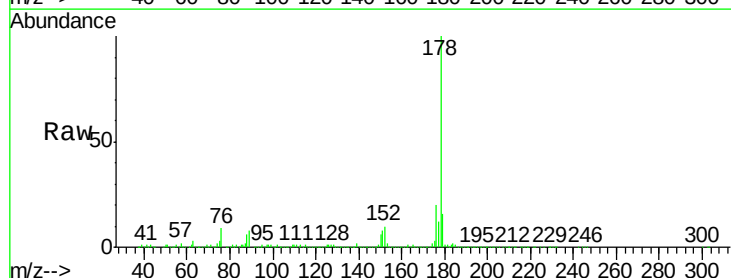
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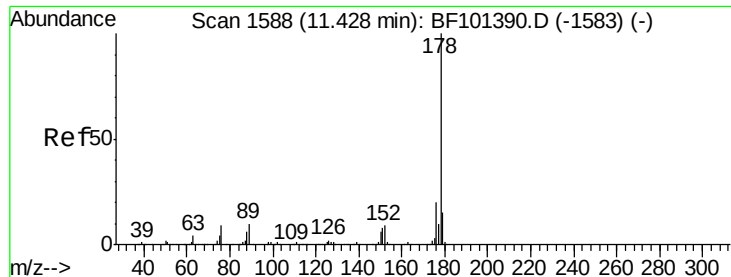
Sohi
12/15/2017 7:50:50
PM



#70
Phenanthrene
Concen: 33.220 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.00 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.8	15.8	23.8
179	15.8	13.0	19.6





#71
 Anthracene
 Concen: 9.504 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF101443.D
 Acq: 15 Dec 2017 15:24

Instrument :
 BNA_F
 ClientSampleId :
 WC-41446854-02

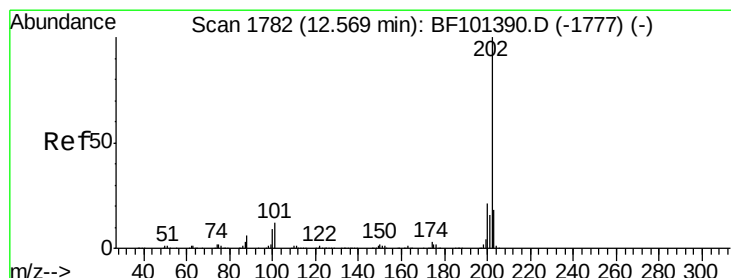
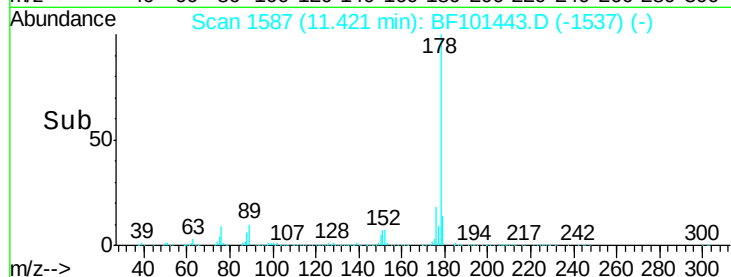
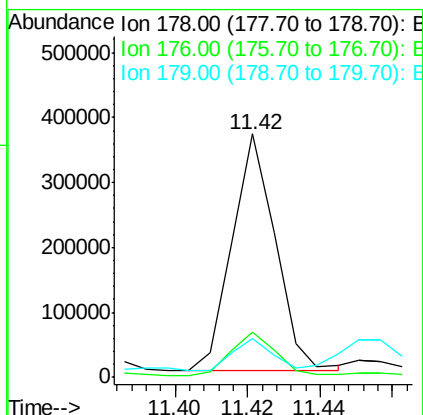
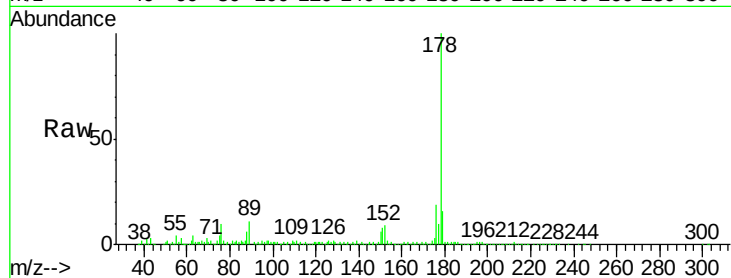
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.9	12.6	19.0

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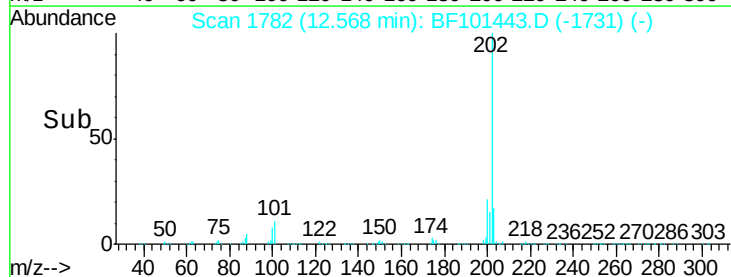
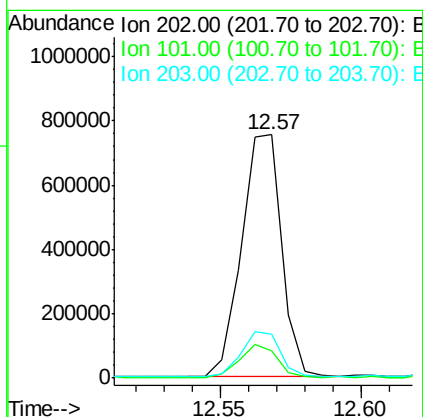
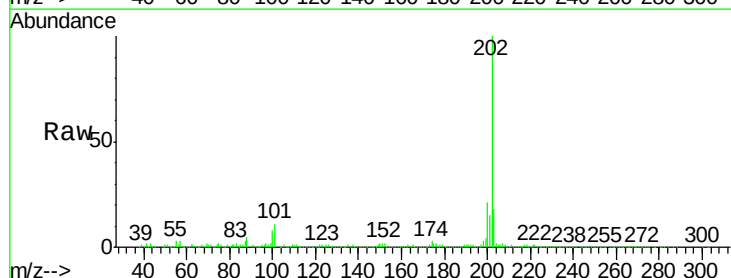
12/15/2017 7:50:50

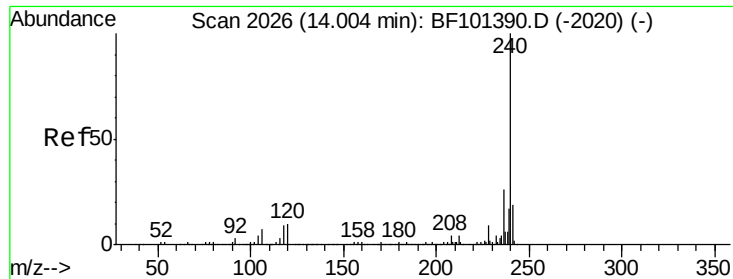
PM



#74
 Fluoranthene
 Concen: 22.650 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: BF101443.D
 Acq: 15 Dec 2017 15:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.00 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Instrument :

BNA_F

ClientSampleId :

WC-41446854-02

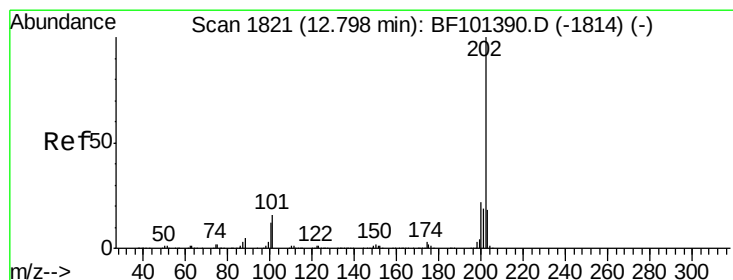
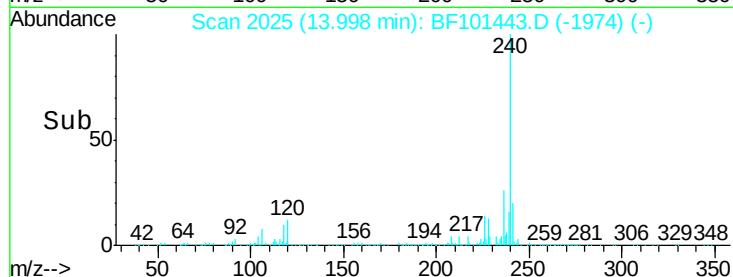
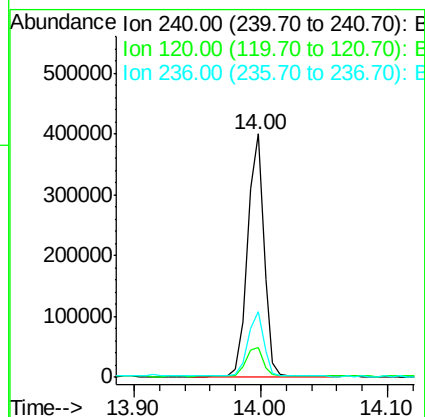
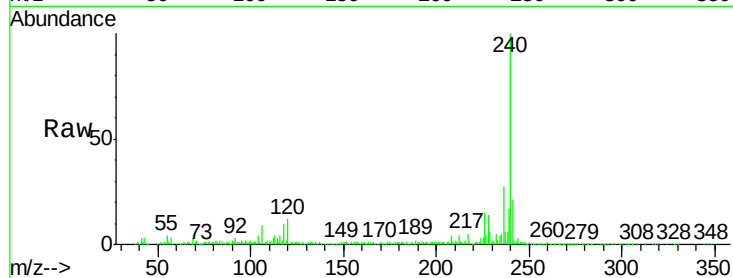
Tgt Ion:	240	Resp:	357393
Ion Ratio	Lower	Upper	
240	100		
120	12.3	9.5	14.3
236	27.1	20.7	31.1

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PM



#77

Pyrene

Concen: 37.410 ng

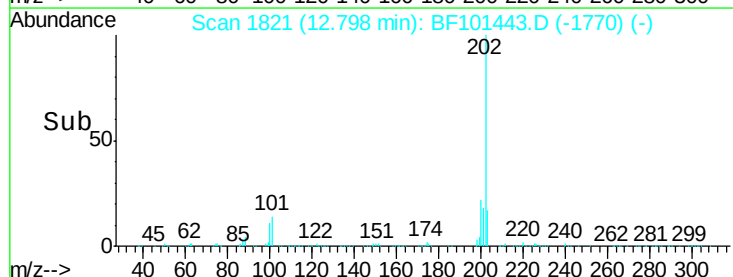
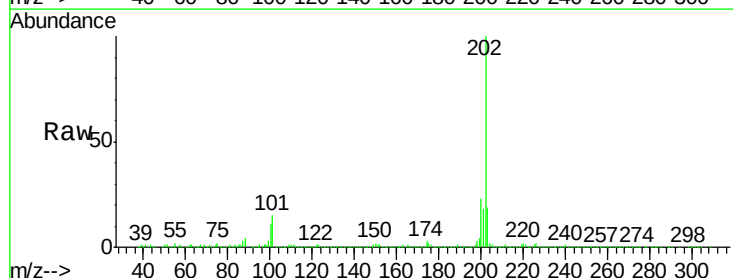
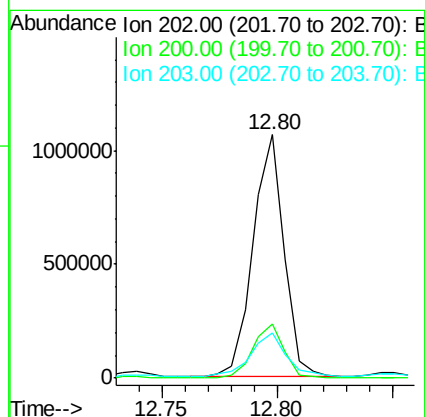
RT: 12.80 min Scan# 1821

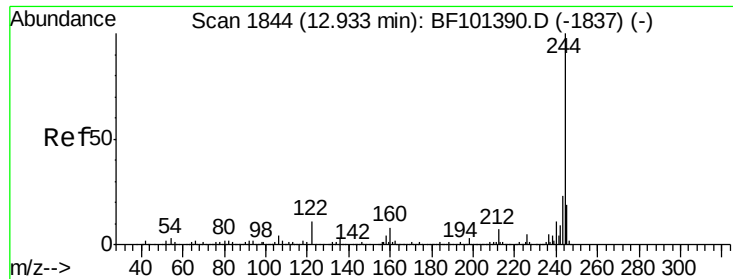
Delta R.T. -0.00 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Tgt Ion:	202	Resp:	1003420
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.4	26.2
203	18.5	14.3	21.5





#78

Terphenyl-d14

Concen: 4.476 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Instrument :

BNA_F

ClientSampleId :

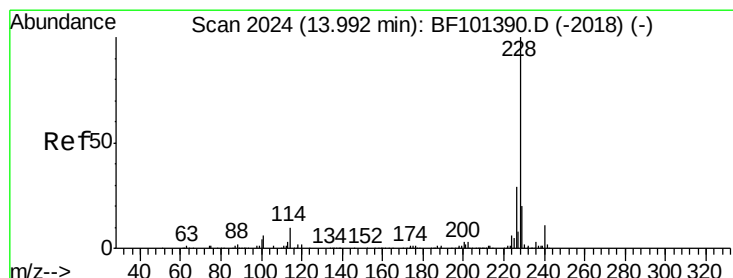
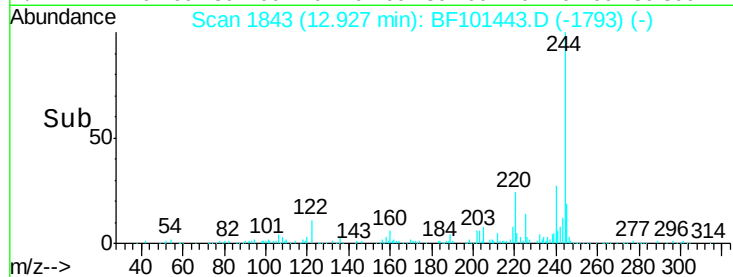
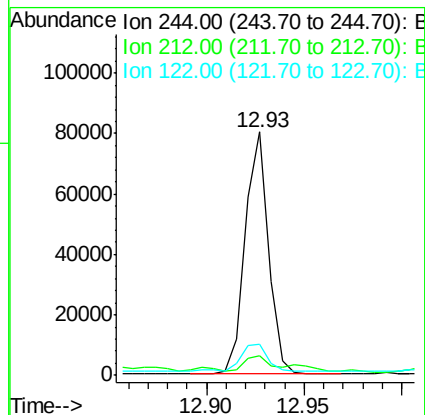
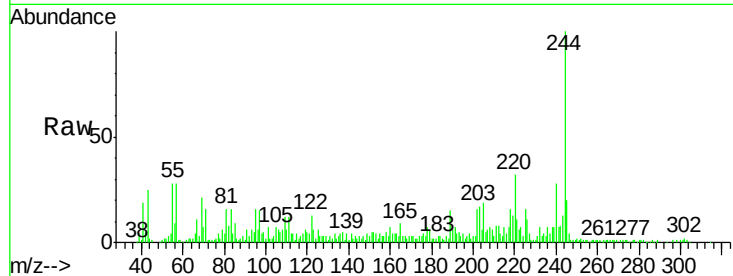
WC-41446854-02

Tgt Ion:	244	Resp:	66350
Ion Ratio		Lower	Upper
244	100		
212	8.2	5.4	8.0#
122	12.7	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 14.042 ng

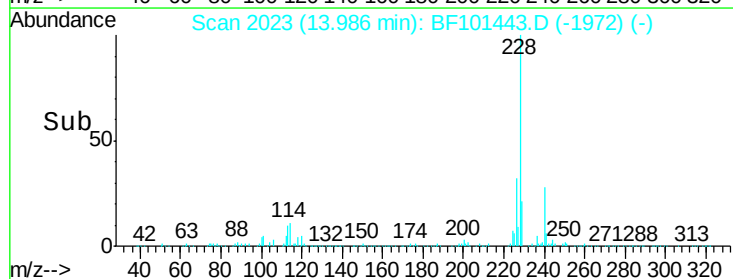
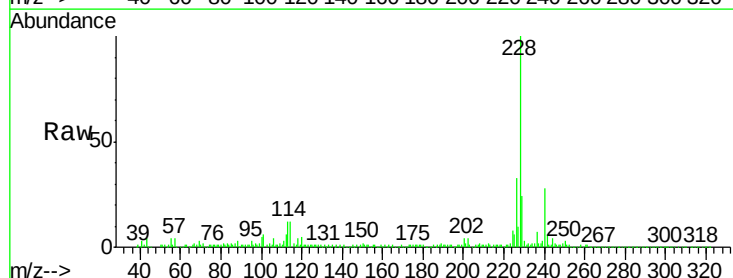
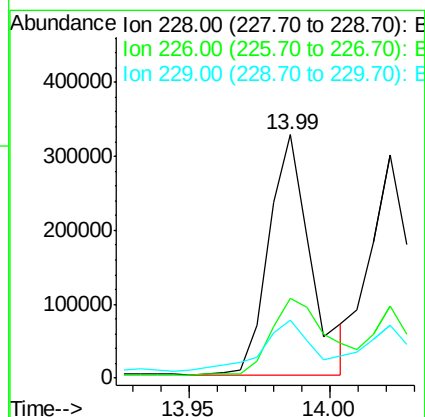
RT: 13.99 min Scan# 2023

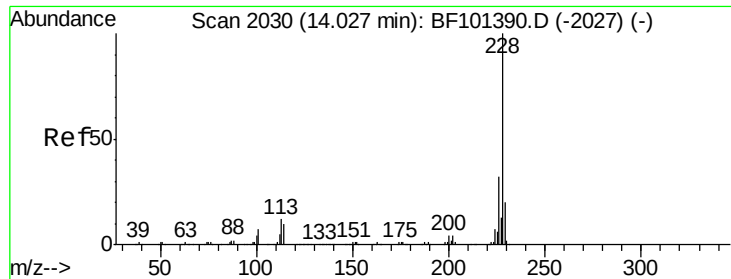
Delta R.T. -0.00 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Tgt Ion:	228	Resp:	331369
Ion Ratio		Lower	Upper
228	100		
226	33.0	22.6	33.8
229	23.8	15.8	23.6#





#82
Chrysene
Concen: 12.498 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

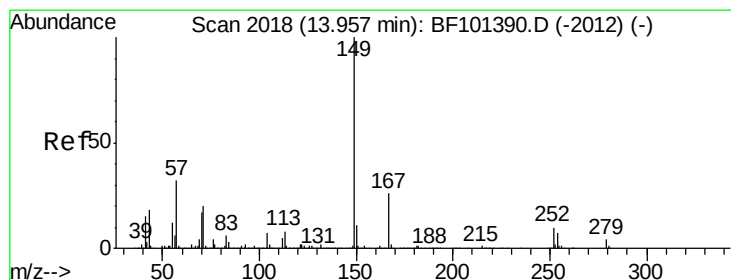
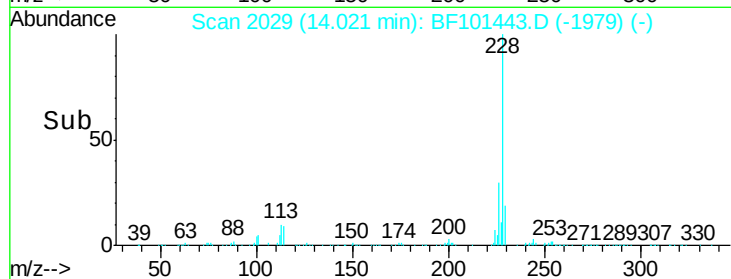
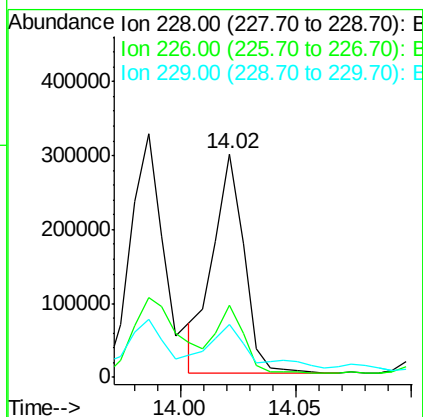
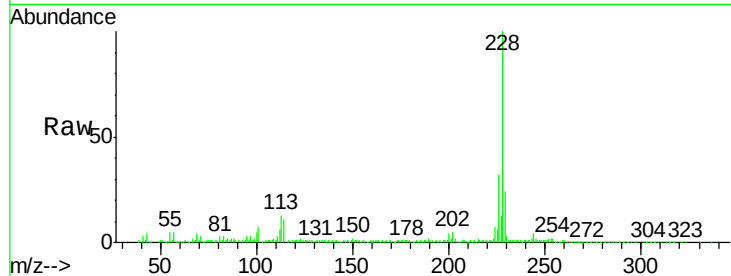
Instrument :
BNA_F
ClientSampleId :
WC-41446854-02

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	278482		
226	32.1	25.0	37.6	
229	23.8	16.2	24.4	

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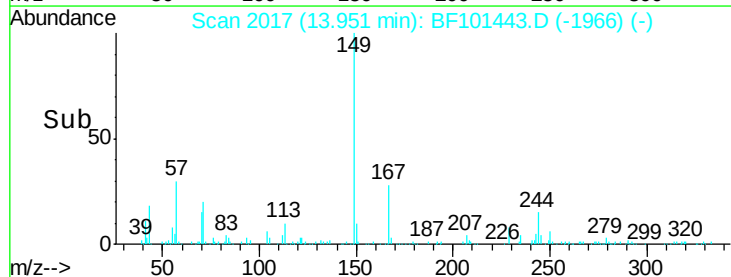
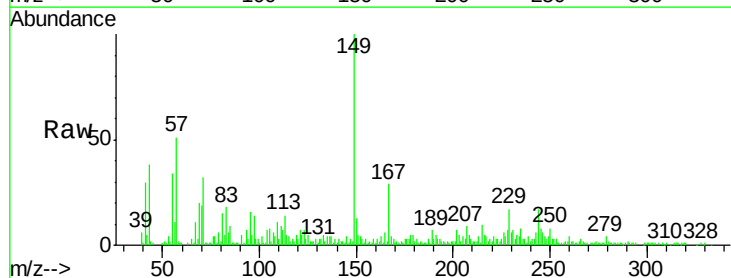
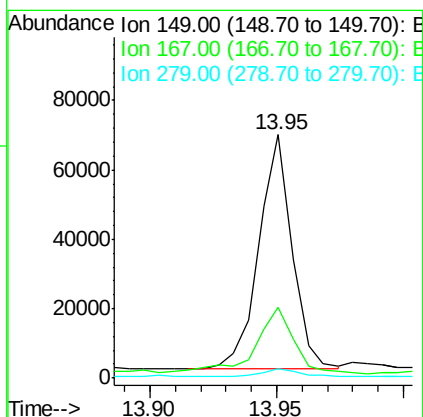
Sohi

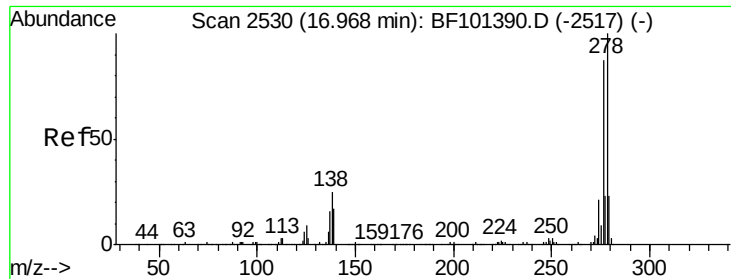
12/15/2017 7:50:50
PM



#83
Bis(2-ethylhexyl)phthalate
Concen: 3.996 ng
RT: 13.95 min Scan# 2017
Delta R.T. -0.00 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	61426		
167	29.0	21.3	31.9	
279	3.7	3.0	4.4	





#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.108 ng
 RT: 16.95 min Scan# 2527
 Delta R.T. -0.02 min
 Lab File: BF101443.D
 Acq: 15 Dec 2017 15:24

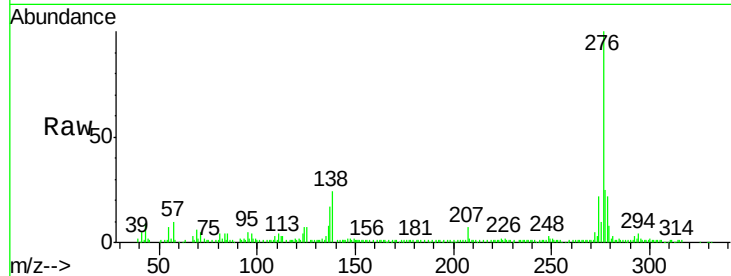
Instrument :
 BNA_F
 ClientSampleId :
 WC-41446854-02

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.3	25.0	37.6#
277	23.8	20.1	30.1

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Sohi

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 PM

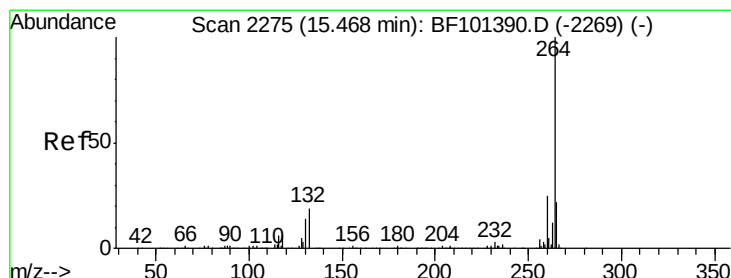
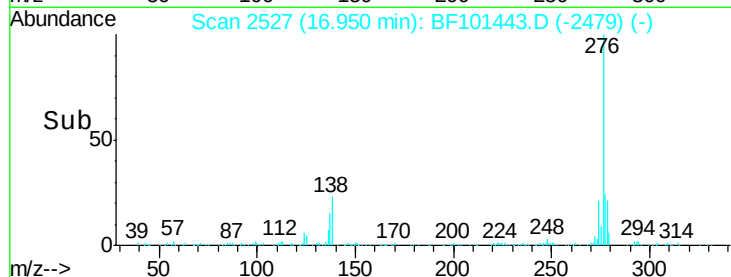
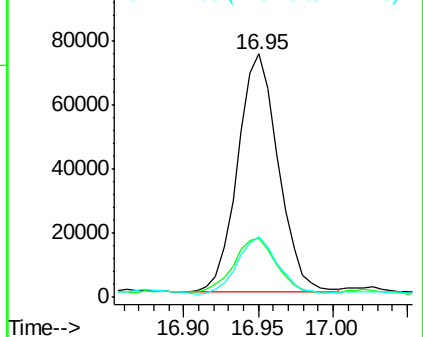


Abundance

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: 20.000 ng
 RT: 15.47 min Scan# 2275
 Delta R.T. -0.00 min
 Lab File: BF101443.D
 Acq: 15 Dec 2017 15:24

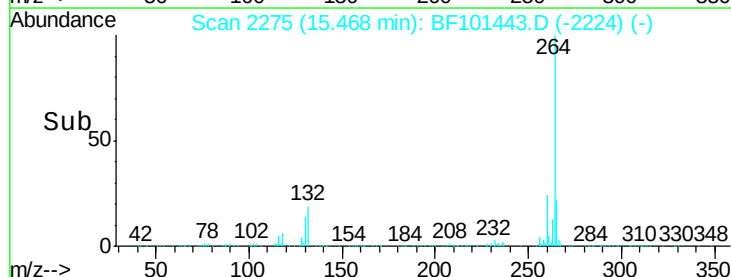
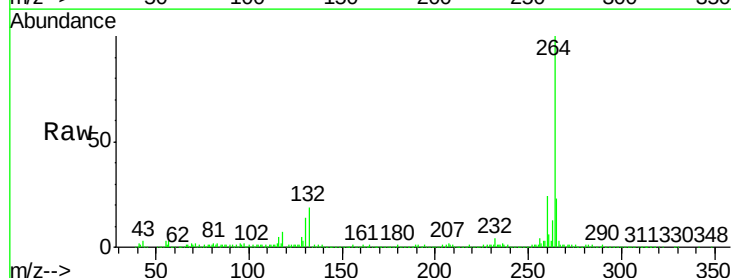
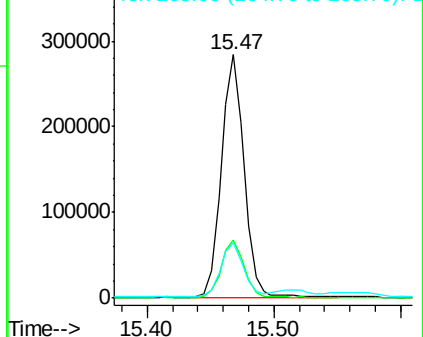
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.6	17.5	26.3

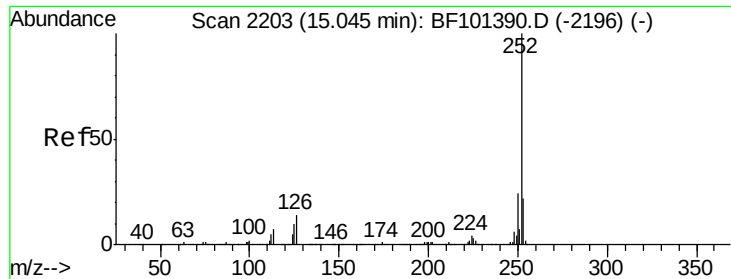
Abundance

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: 13.577 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

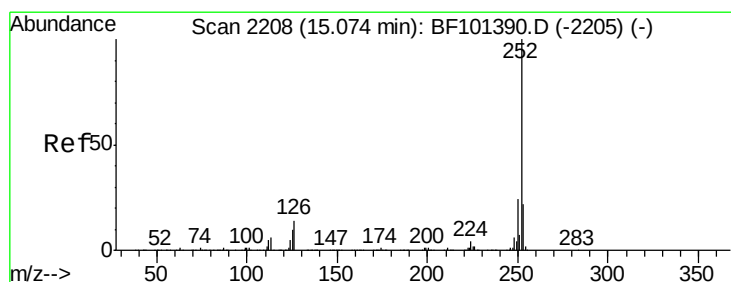
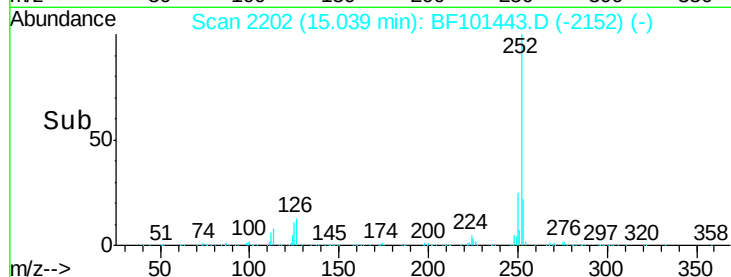
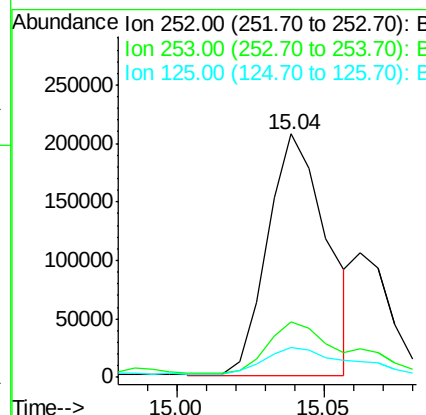
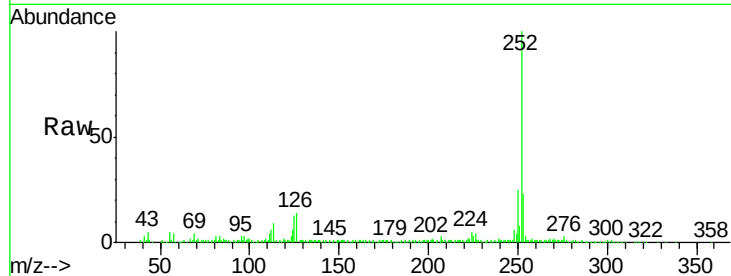
Instrument :
BNA_F
ClientSampleId :
WC-41446854-02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	12.5	9.0	13.6

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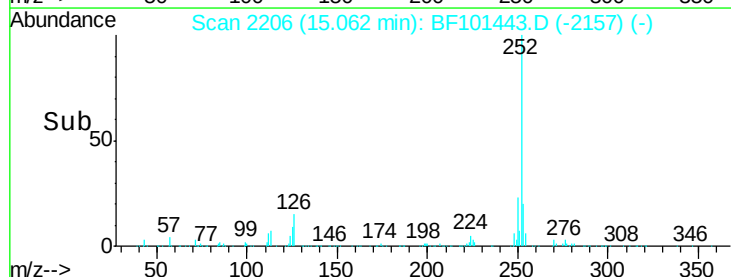
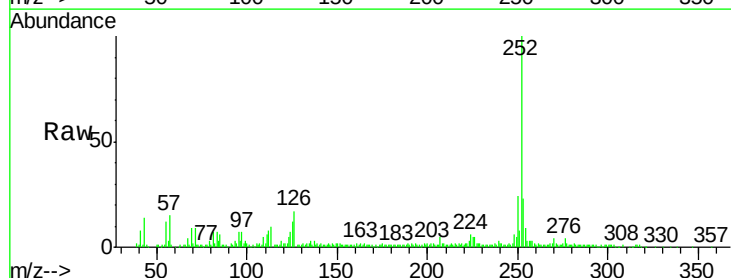
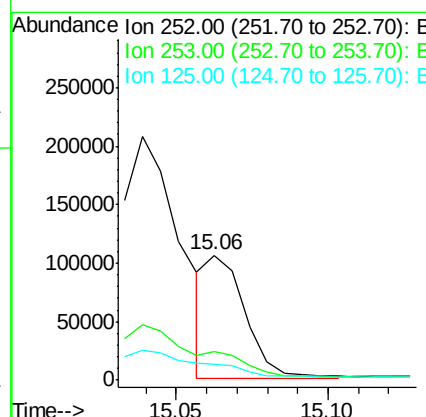
Sohi

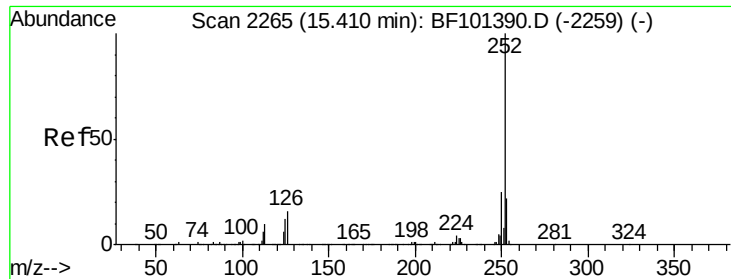
12/15/2017 7:50:50
PM



#88
Benzo(k)fluoranthene
Concen: 4.512 ng m
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF101443.D
Acq: 15 Dec 2017 15:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	12.3	10.2	15.2





#89

Benzo(a)pyrene

Concen: 13.047 ng

RT: 15.40 min Scan# 2264

Delta R.T. -0.01 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Instrument :

BNA_F

ClientSampleId :

WC-41446854-02

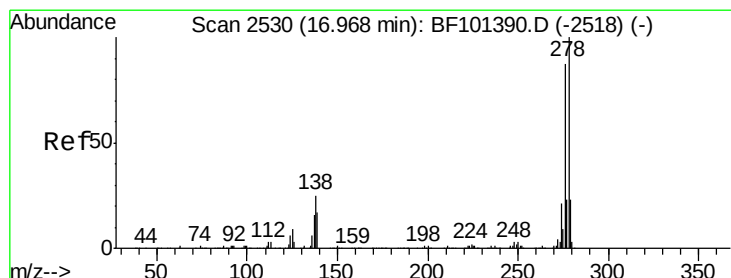
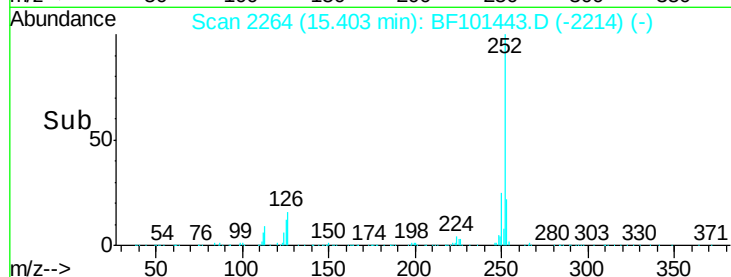
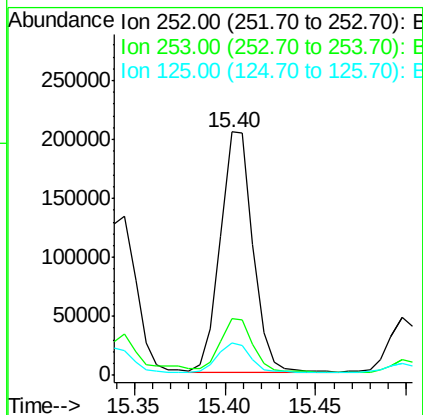
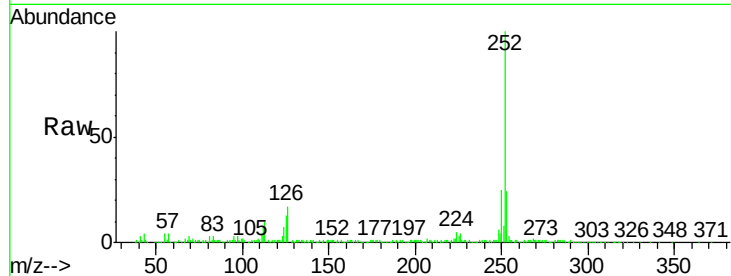
Tgt Ion:	252	Resp:	257387
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.1	25.7
125	13.4	9.8	14.6

Manual Integrations
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Sohi

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PM



#90

Dibenzo(a,h)anthracene

Concen: 2.329 ng m

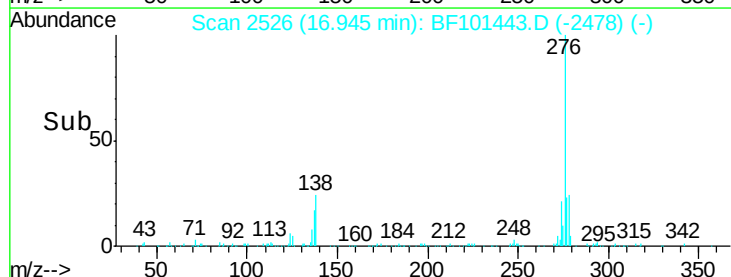
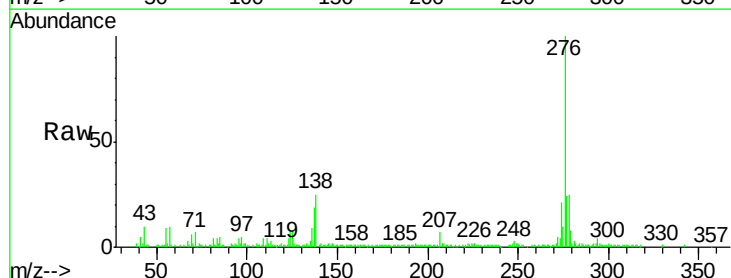
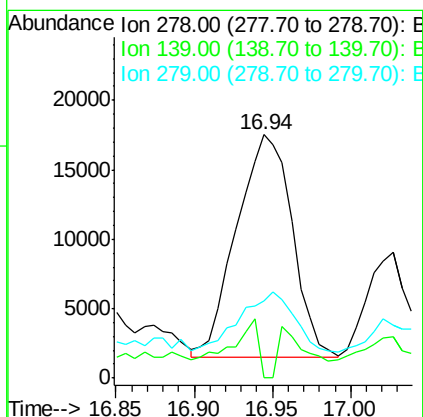
RT: 16.94 min Scan# 2526

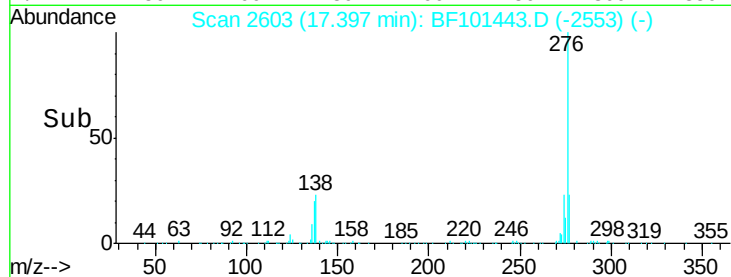
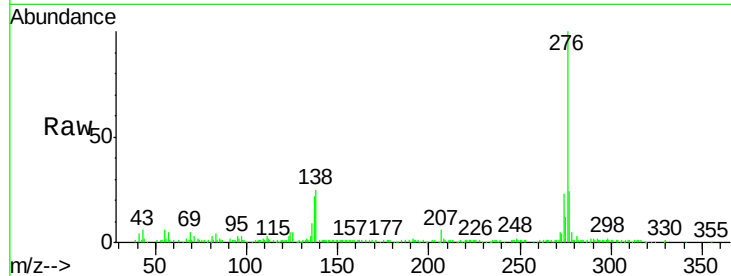
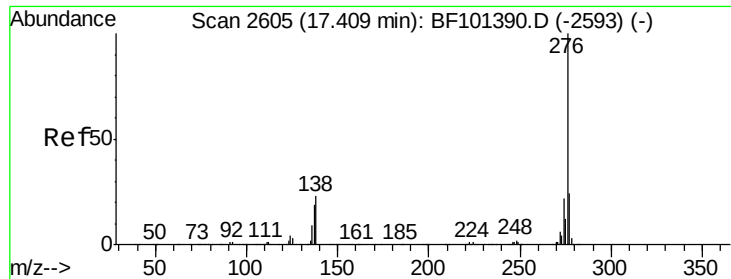
Delta R.T. -0.02 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Tgt Ion:	278	Resp:	39445
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	31.5	19.0	28.4#





#91

Benzo(g,h,i)perylene

Concen: 10.076 ng

RT: 17.40 min Scan# 2603

Delta R.T. -0.01 min

Lab File: BF101443.D

Acq: 15 Dec 2017 15:24

Tgt Ion:	276	Resp:	169001
Ion Ratio	Lower	Upper	
276	100		
277	24.3	17.9	26.9
138	25.4	21.8	32.8

Instrument :

BNA_F

ClientSampleId :

WC-41446854-02

Manual Integrations
APPROVED

Sohi

12/15/2017 7:50:50
PM

