

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121517\
 Data File : BF101444.D
 Acq On : 15 Dec 2017 15:51
 Operator : SJ/JU
 Sample : I6877-02 20X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(13-15)

Manual Integrations
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 12/15/2017 7:50:53 PM

Quant Time: Dec 15 17:51:40 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	6.82	152	184740	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	774072	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	339753	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	605147	20.00	ng	0.00
75) Chrysene-d12	13.99	240	381135	20.00	ng	0.00
86) Perylene-d12	15.46	264	366940	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	73136	5.90	ng	0.02
7) Phenol-d6	6.46	99	98617	6.39	ng	0.00
23) Nitrobenzene-d5	7.39	82	55749	4.01	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	17961	5.49	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	90899	4.15	ng	0.00
78) Terphenyl-d14	12.92	244	73113	4.62	ng	-0.01
Target Compounds						
70) Phenanthrene	11.37	178	370405	11.007	ng	98
71) Anthracene	11.42	178	132803	3.863	ng	99
74) Fluoranthene	12.56	202	600692	17.005	ng	97
77) Pyrene	12.79	202	571121	19.966	ng	99
80) Benzo(a)anthracene	13.98	228	425860	16.921	ng	98
82) Chrysene	14.02	228	362845	15.270	ng	97
83) Bis(2-ethylhexyl)phthalate	13.95	149	57834	3.528	ng	97
85) Indeno(1,2,3-cd)pyrene	16.95	276	418239	19.765	ng	# 91
87) Benzo(b)fluoranthene	15.04	252	673594m	30.117	ng	
88) Benzo(k)fluoranthene	15.06	252	174064m	8.005	ng	
89) Benzo(a)pyrene	15.40	252	558307	27.079	ng	96
90) Dibenzo(a,h)anthracene	16.94	278	111571m	6.303	ng	
91) Benzo(g,h,i)perylene	17.40	276	383722	21.891	ng	94

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

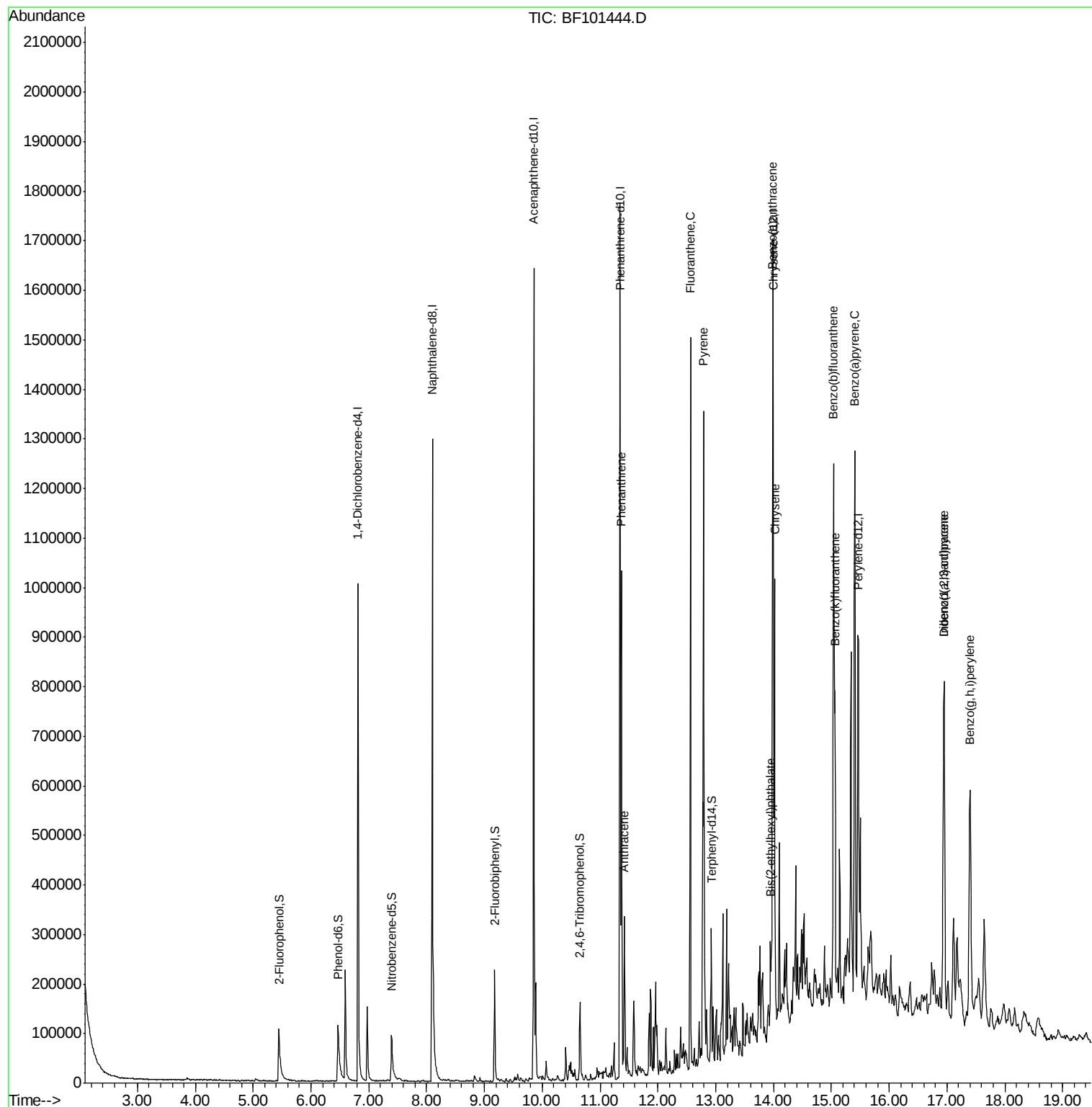
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121517\
Data File : BF101444.D
Acq On : 15 Dec 2017 15:51
Operator : SJ/JU
Sample : I6877-02 20X
Misc :
ALS Vial : 7 Sample Multiplier: 1

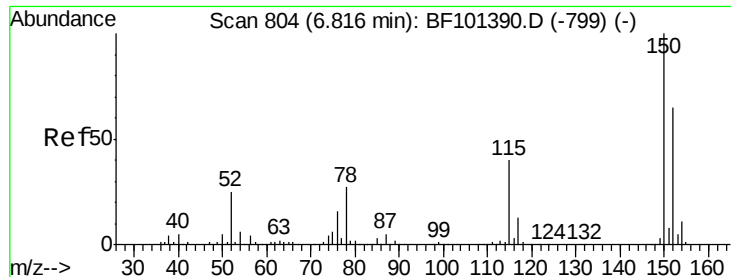
Instrument :
BNA_F
ClientSampleId :
SB-5(13-15)

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Quant Time: Dec 15 17:51:40 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





#1

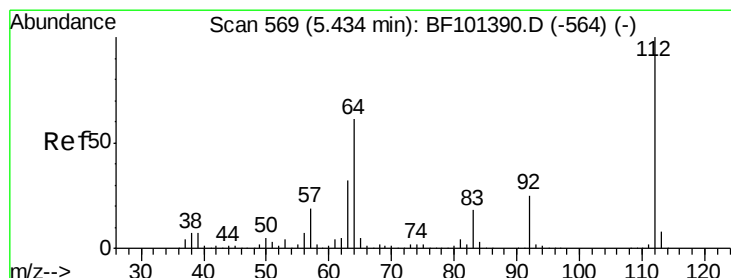
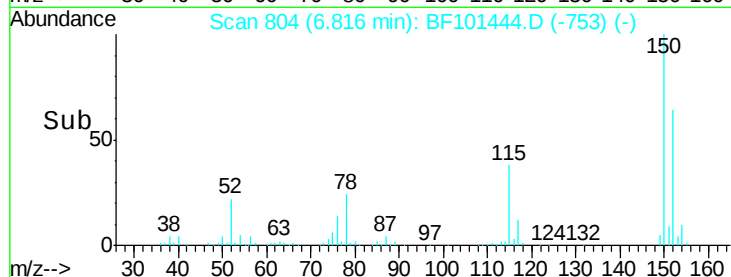
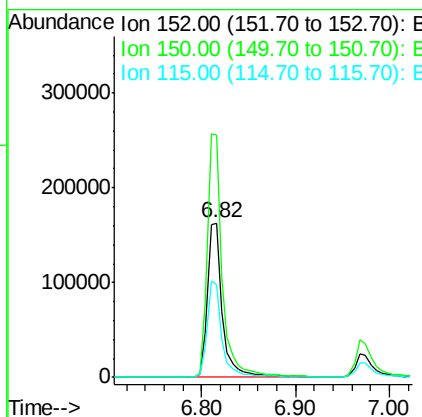
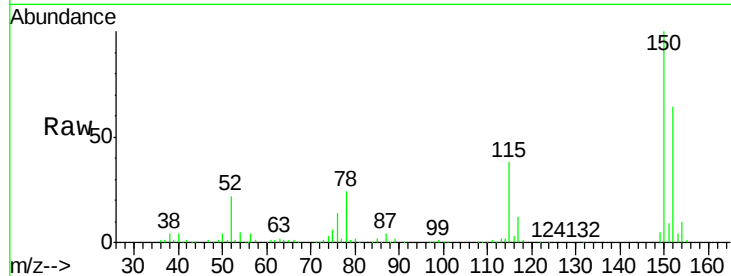
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Instrument :
BNA_F
ClientSampleId :
SB-5(13-15)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.6	186.8
115	60.2	50.1	75.1

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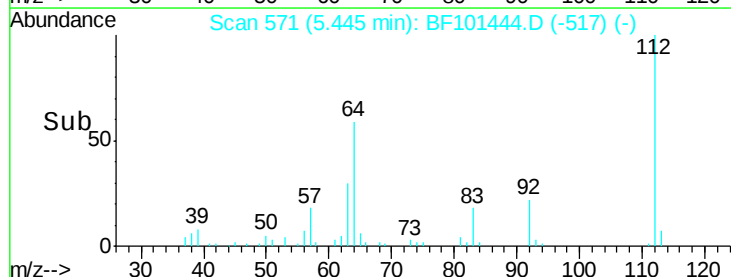
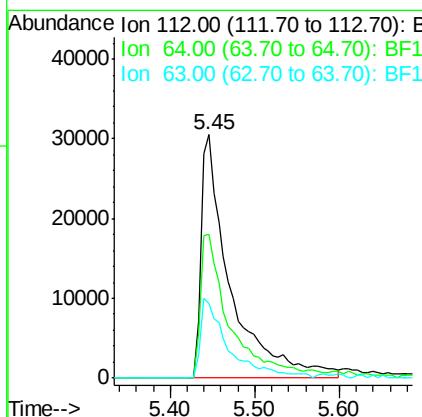
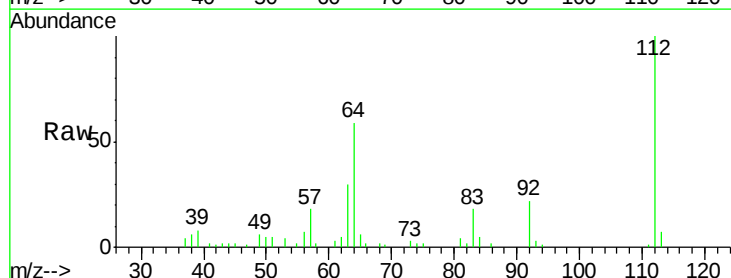
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#5

2-Fluorophenol
Concen: 5.897 ng
RT: 5.45 min Scan# 571
Delta R.T. 0.02 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.0	47.9	71.9
63	30.5	23.7	35.5





#7

Phenol-d6

Concen: 6.389 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

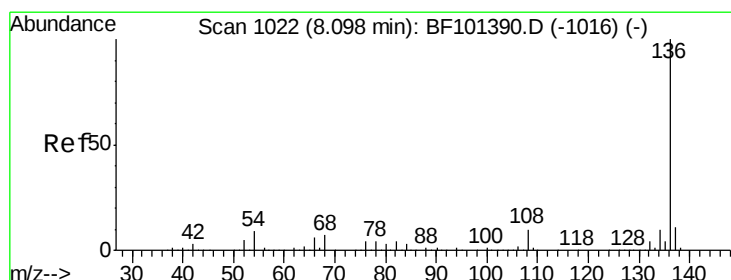
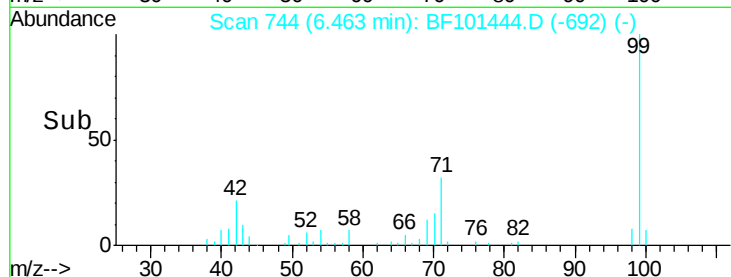
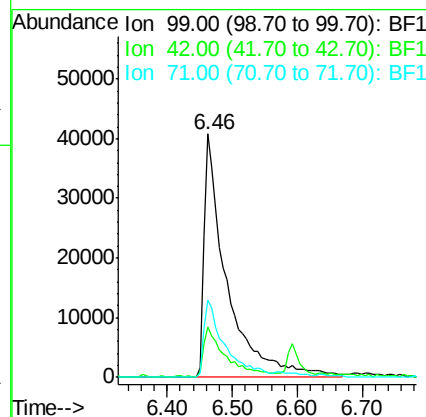
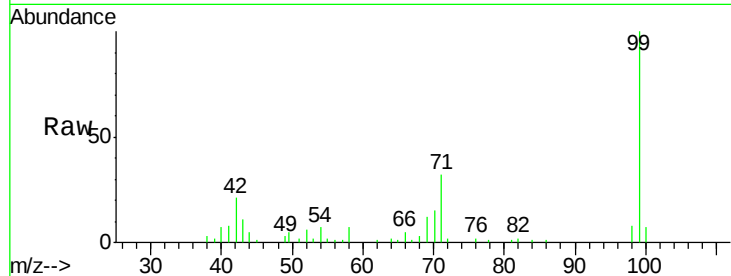
ClientSampled :

SB-5(13-15)

Tgt Ion:	99	Resp:	98617
Ion Ratio	Lower	Upper	
99	100		
42	20.7	14.5	21.7
71	31.7	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

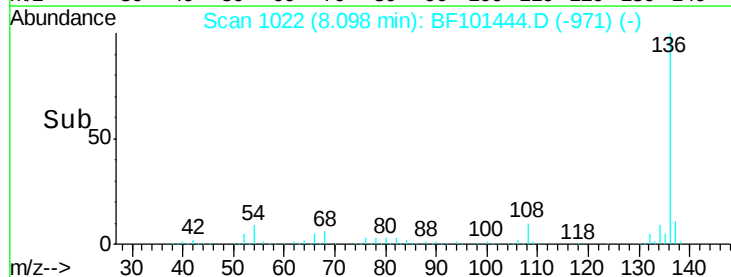
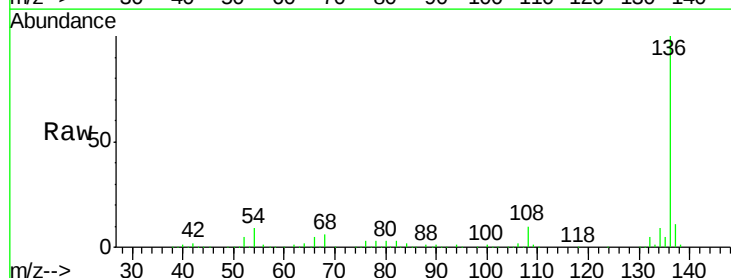
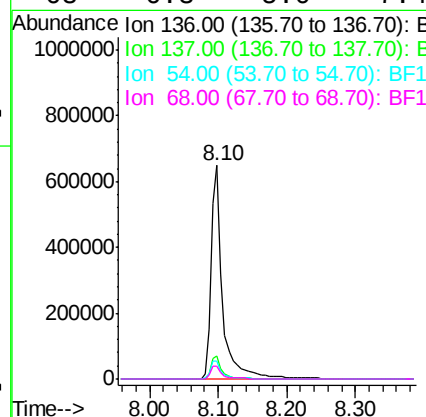
RT: 8.10 min Scan# 1022

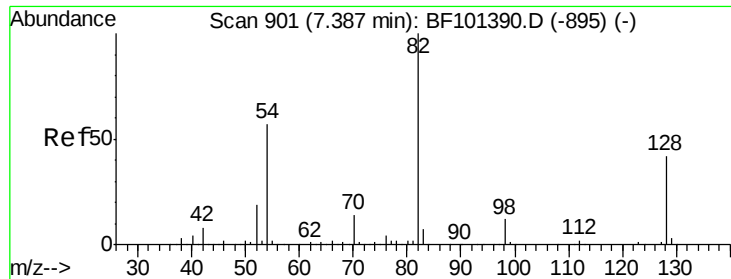
Delta R.T. 0.00 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Tgt Ion:	136	Resp:	774072
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	8.5	6.6	9.8
68	6.3	5.0	7.4





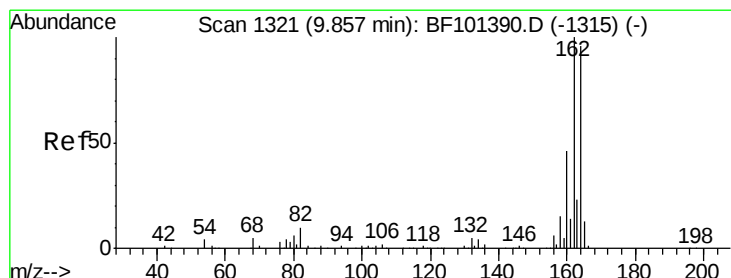
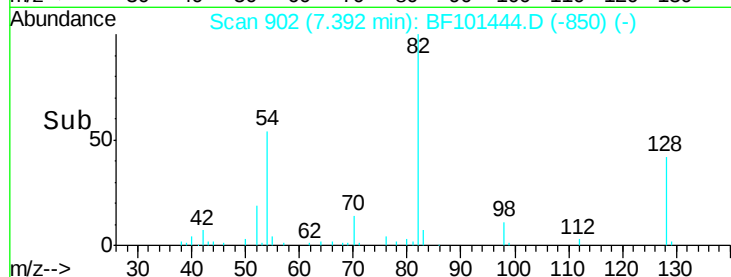
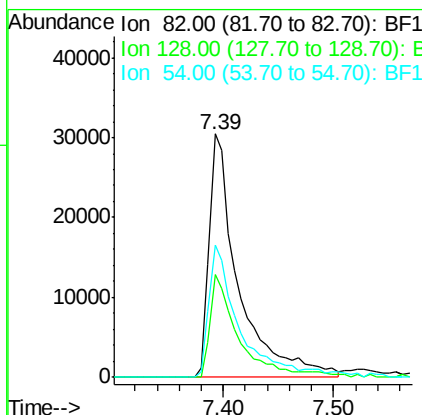
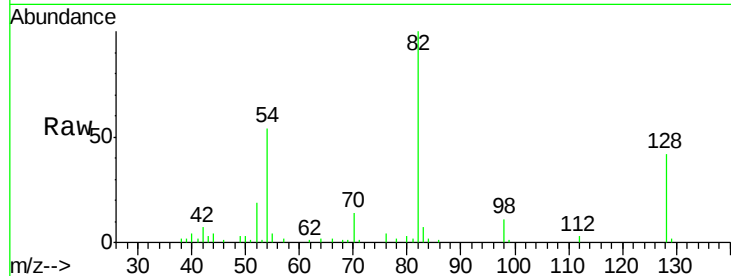
#23
 Nitrobenzene-d5
 Concen: 4.009 ng
 RT: 7.39 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Instrument :
 BNA_F
 ClientSampled :
 SB-5(13-15)

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.2	36.1	54.1
54	54.2	41.4	62.2

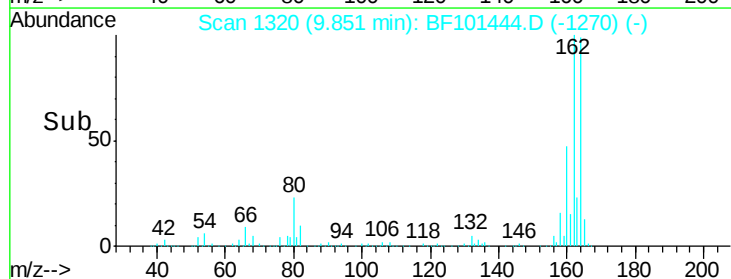
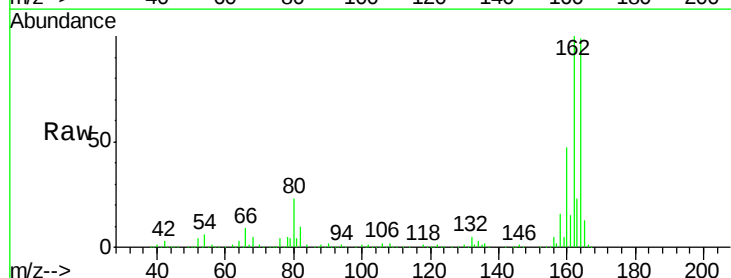
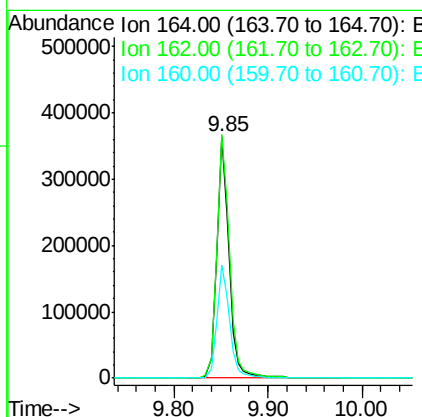
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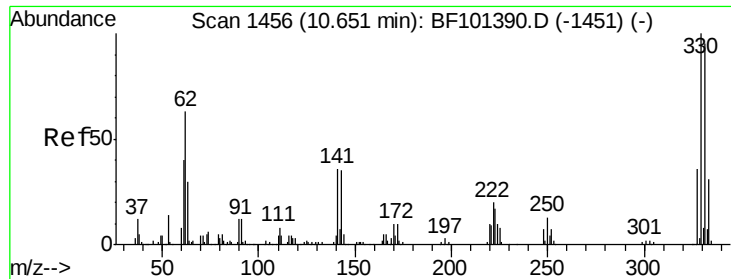
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.8	86.1	129.1
160	46.9	38.3	57.5





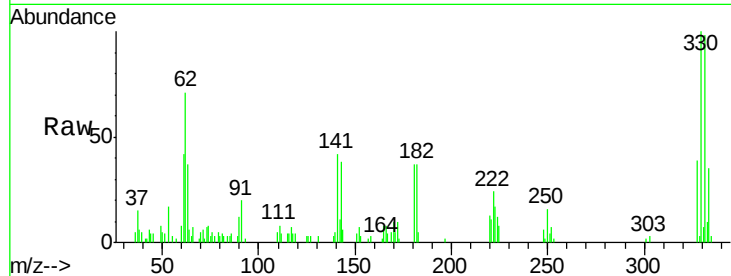
#41
 2,4,6-Tribromophenol
 Concen: 5.486 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. 0.00 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(13-15)

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	17961		
332	96.1	77.0	115.6	
141	38.8	29.9	44.9	

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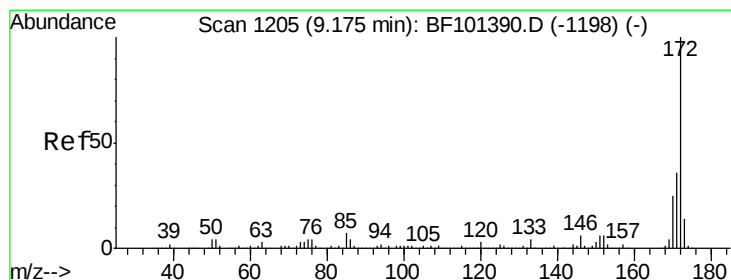
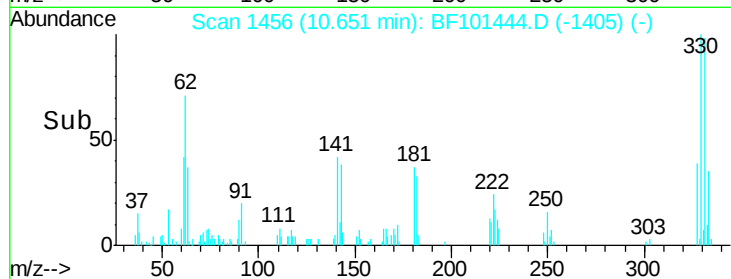
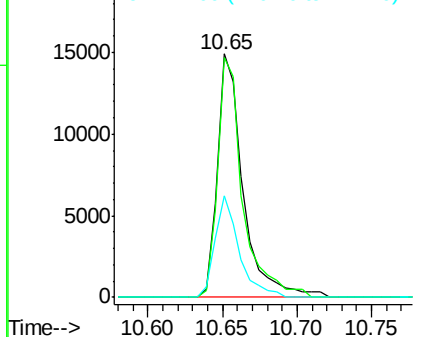


Abundance

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: 4.150 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. 0.00 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

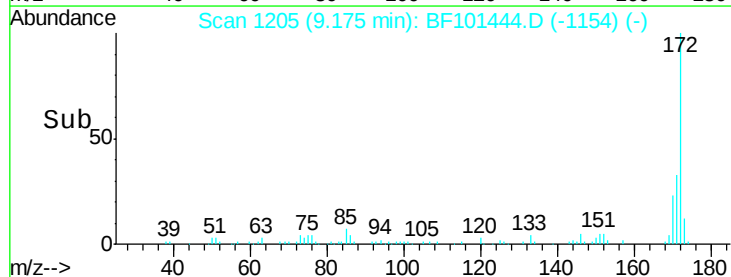
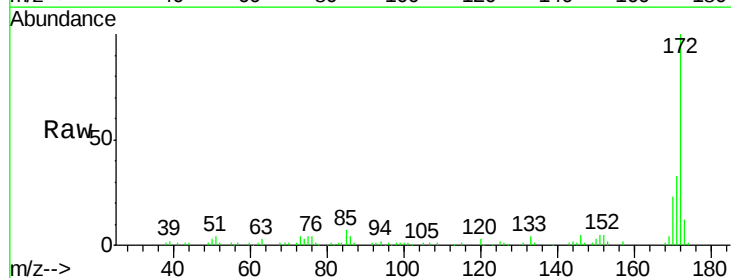
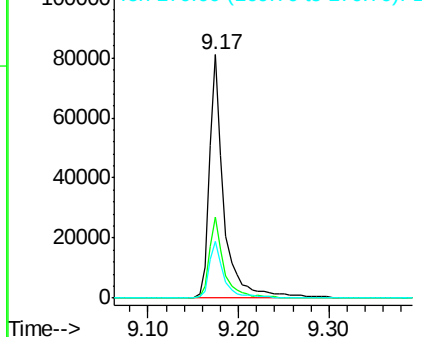
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	90899		
171	33.2	29.7	44.5	
170	23.3	19.6	29.4	

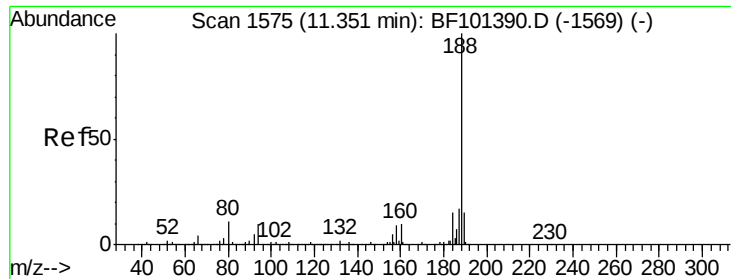
Abundance

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





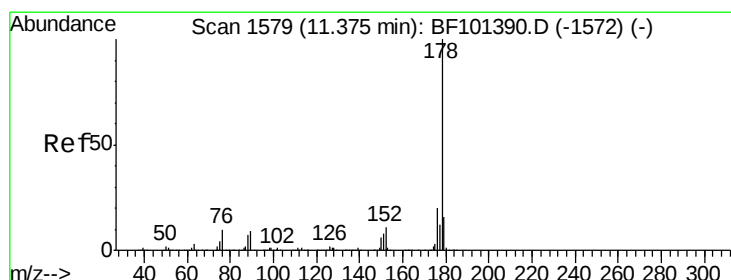
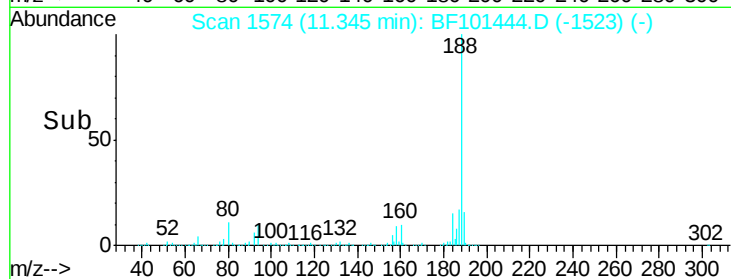
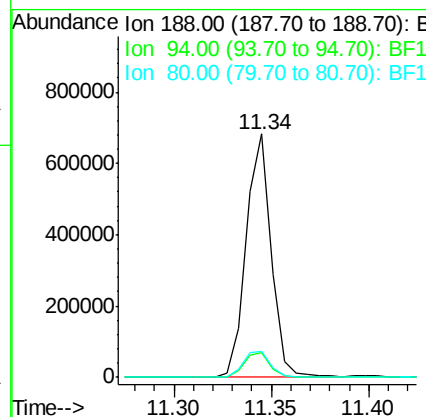
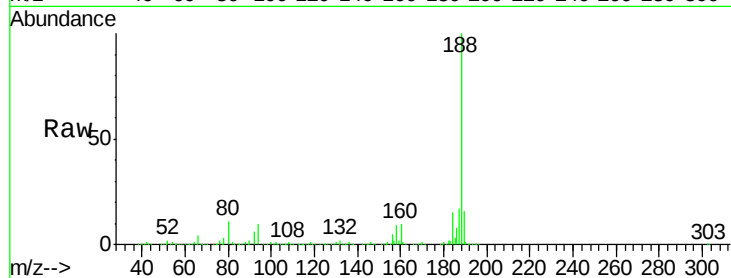
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1574
Delta R.T. 0.00 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Instrument :
BNA_F
ClientSampleId :
SB-5(13-15)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.3	8.5	12.7
80	10.7	9.2	13.8

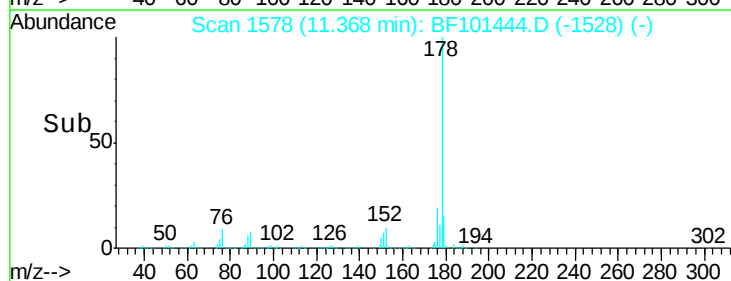
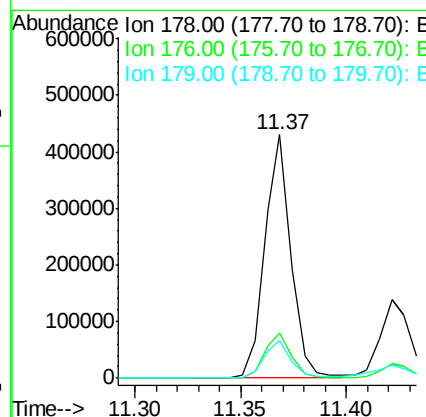
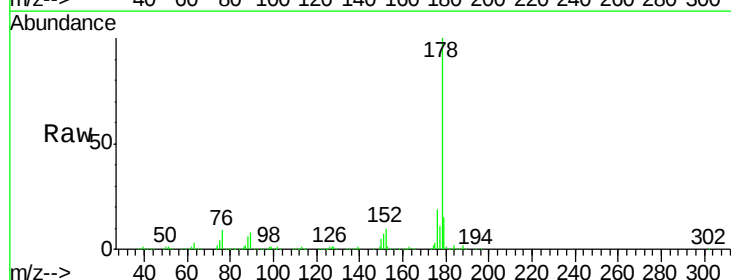
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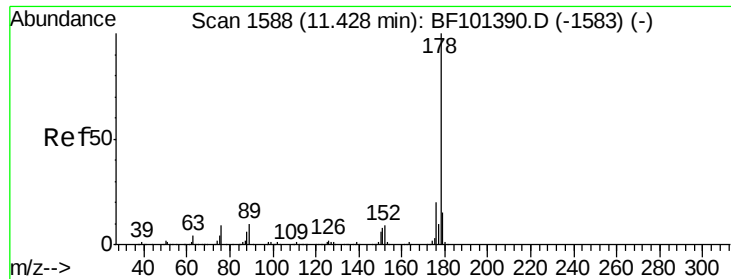
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#70
Phenanthrene
Concen: 11.007 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.8	15.8	23.8
179	15.3	13.0	19.6





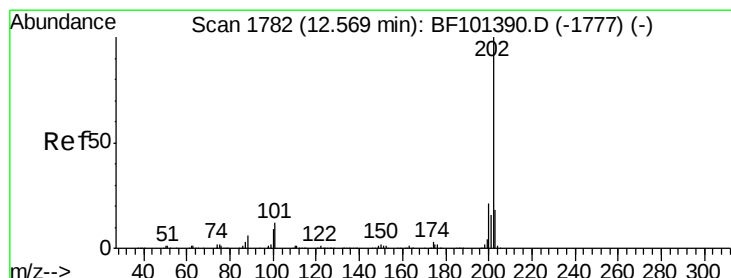
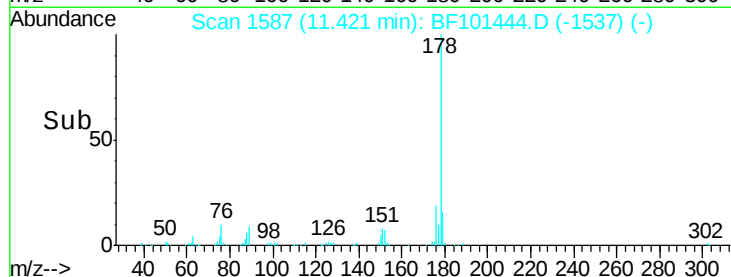
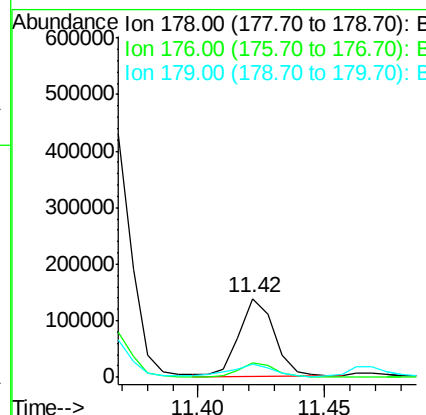
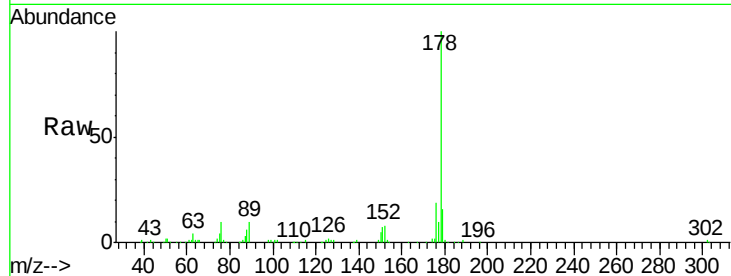
#71
 Anthracene
 Concen: 3.863 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(13-15)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	16.2	12.6	19.0

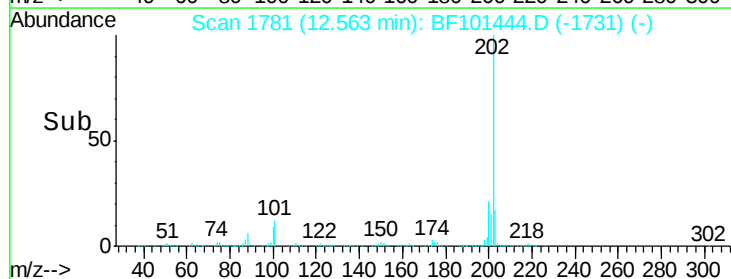
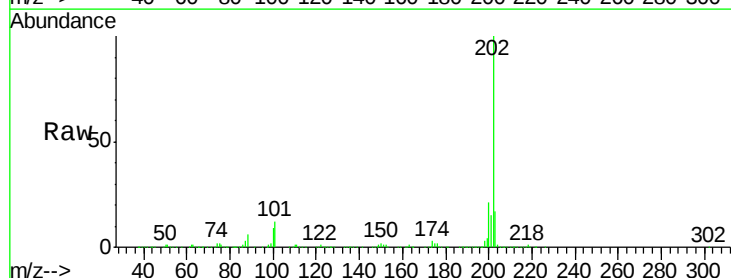
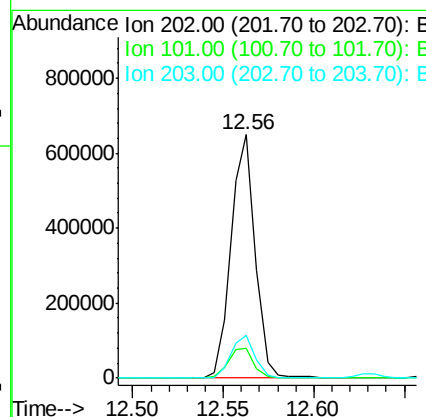
Manual Integrations
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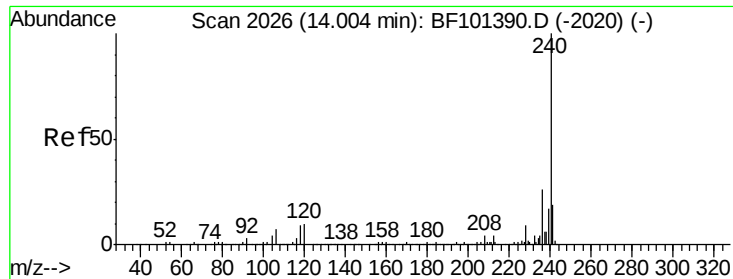
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#74
 Fluoranthene
 Concen: 17.005 ng
 RT: 12.56 min Scan# 1781
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	34.1
203	17.4	0.0	38.1





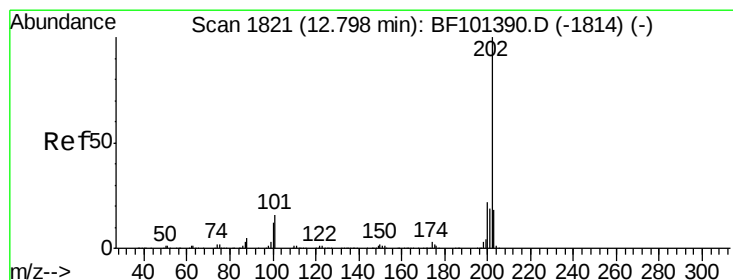
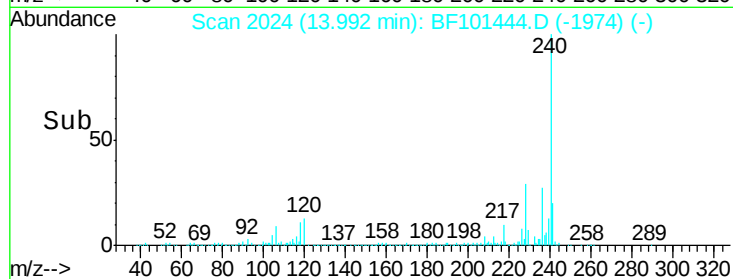
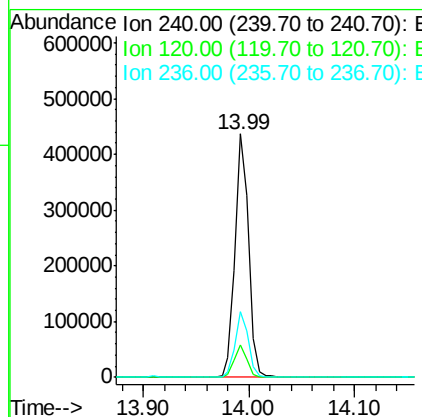
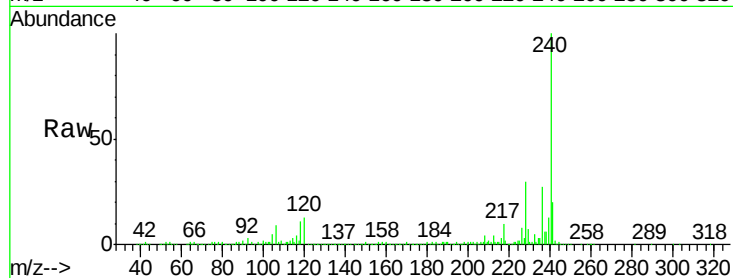
#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Instrument :
BNA_F
ClientSampled :
SB-5(13-15)

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	13.4	9.5	14.3
236	26.8	20.7	31.1

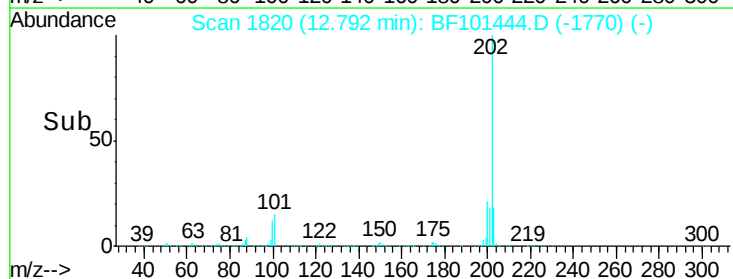
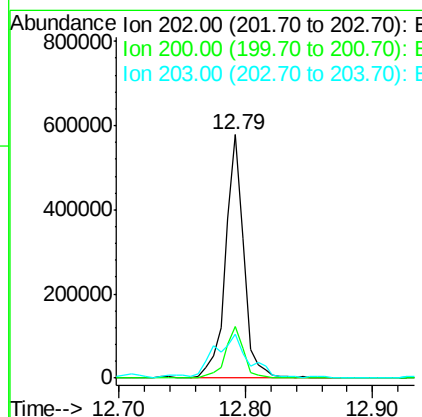
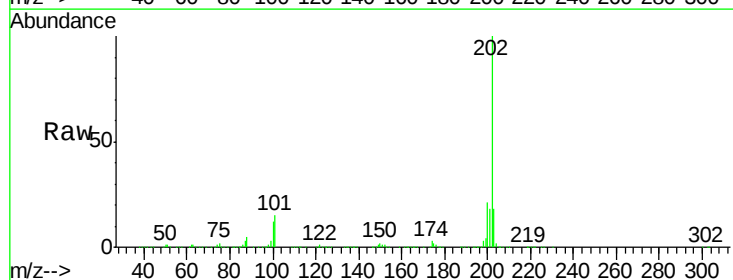
Manual Integrations
APPROVED

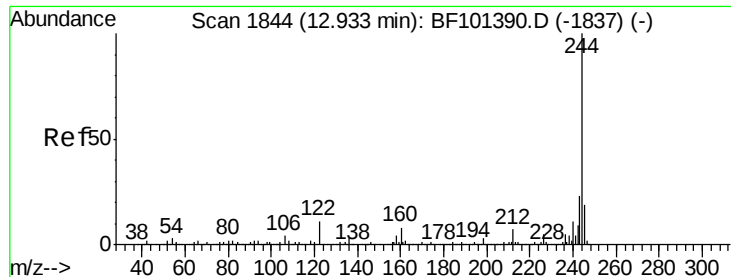
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#77
Pyrene
Concen: 19.966 ng
RT: 12.79 min Scan# 1820
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.0	17.4	26.2
203	18.0	14.3	21.5





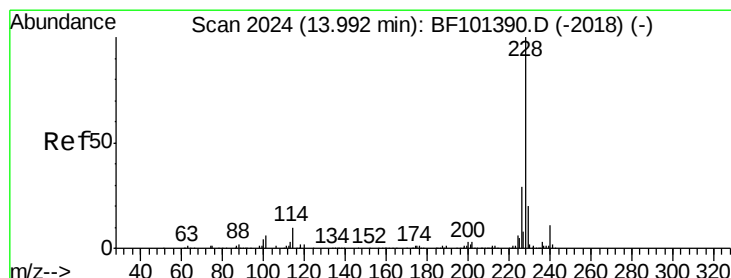
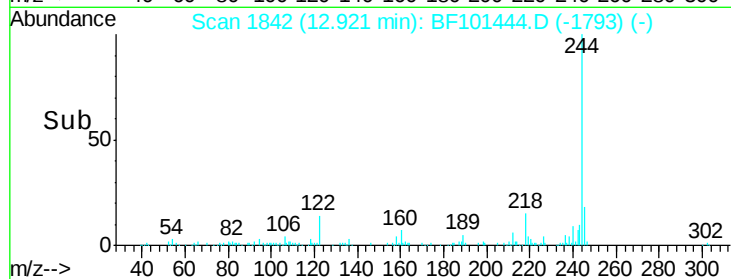
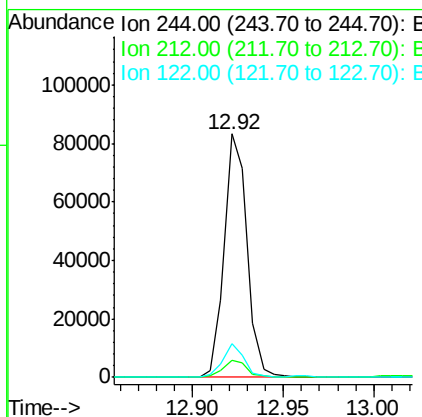
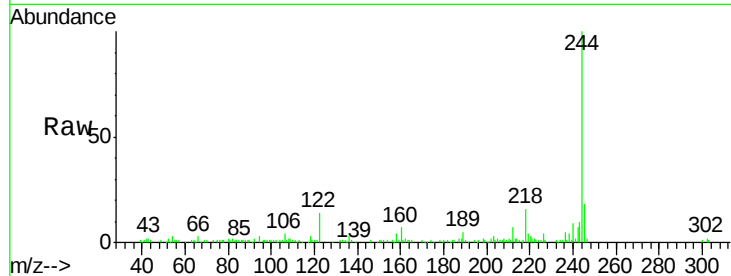
#78
 Terphenyl-d14
 Concen: 4.625 ng
 RT: 12.92 min Scan# 1842
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(13-15)

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	14.0	11.0	16.4

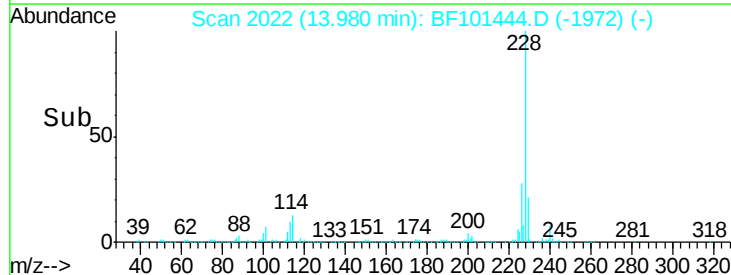
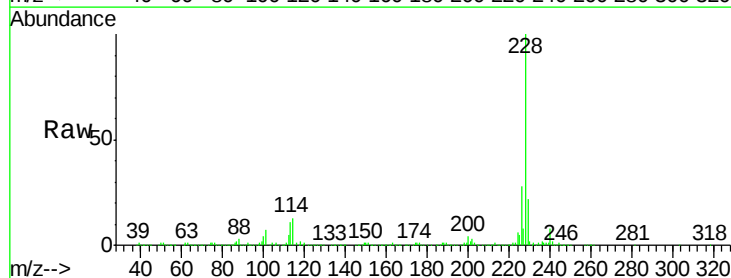
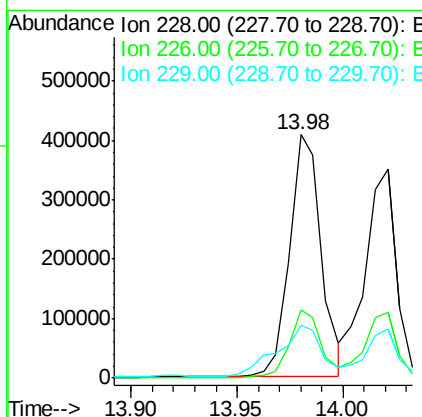
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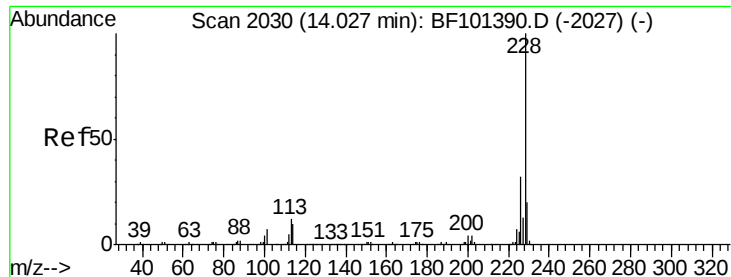
Sohil
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#80
 Benzo(a)anthracene
 Concen: 16.921 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	22.0	15.8	23.6





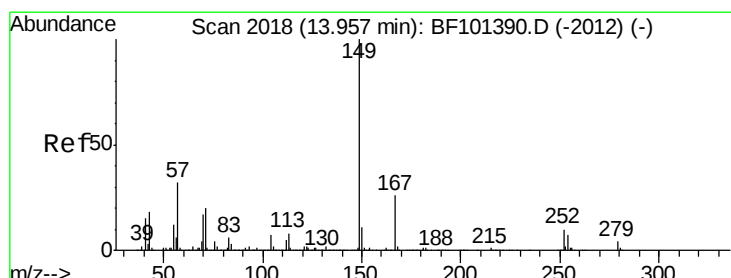
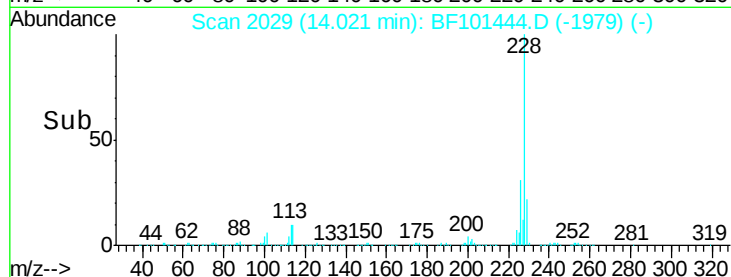
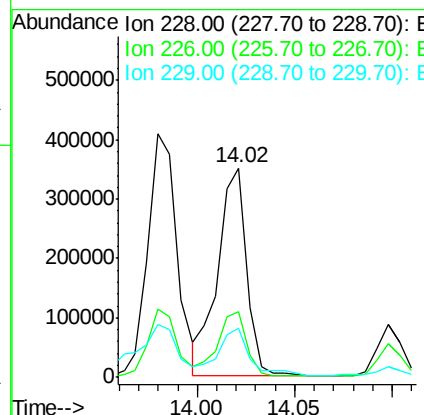
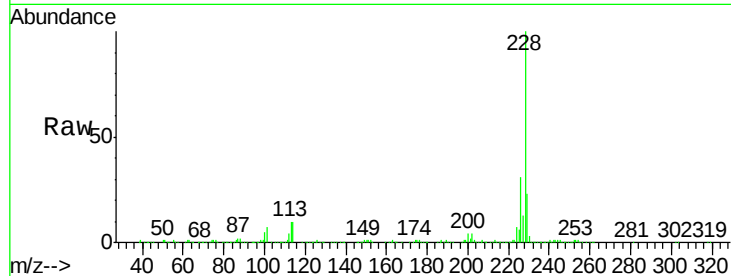
#82
Chrysene
Concen: 15.270 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Instrument :
BNA_F
ClientSampled :
SB-5(13-15)

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	362845		
226	31.2	25.0	37.6	
229	23.4	16.2	24.4	

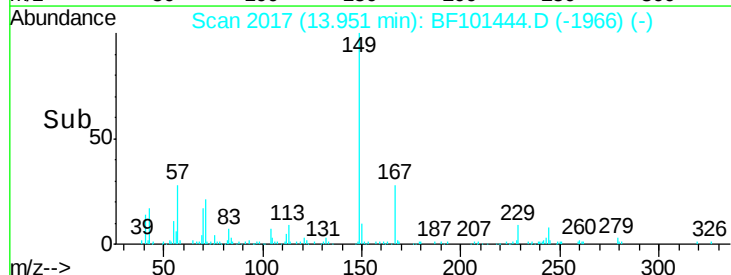
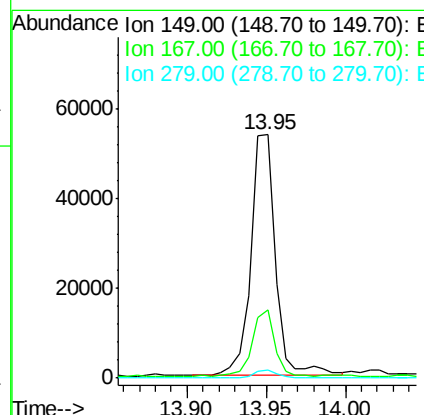
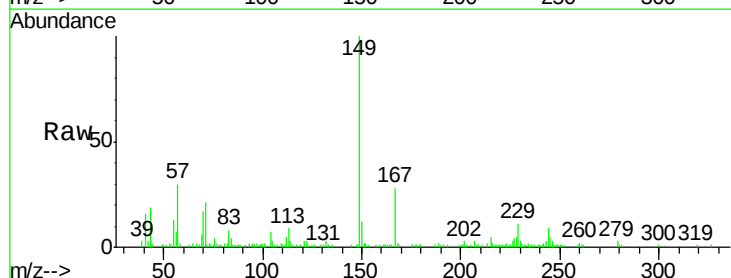
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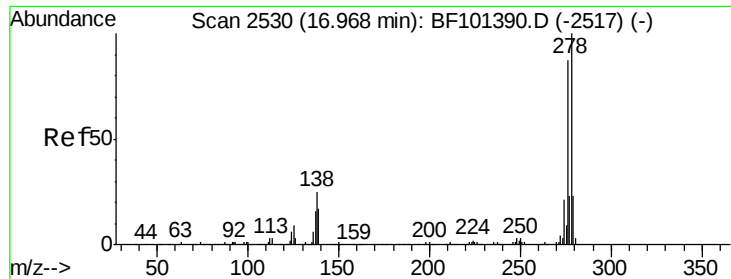
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#83
Bis(2-ethylhexyl)phthalate
Concen: 3.528 ng
RT: 13.95 min Scan# 2017
Delta R.T. 0.00 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	57834		
167	28.2	21.3	31.9	
279	3.1	3.0	4.4	





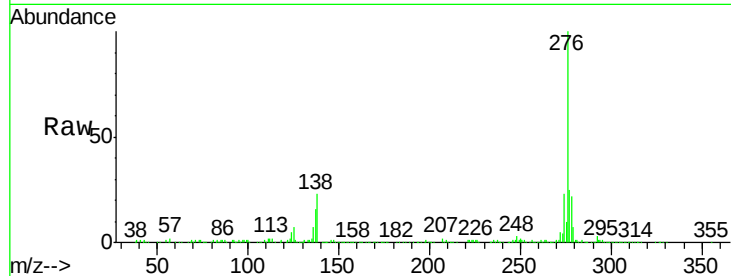
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 19.765 ng
 RT: 16.95 min Scan# 2527
 Delta R.T. -0.02 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(13-15)

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	418239		
138	24.0	25.0	37.6#	
277	23.3	20.1	30.1	

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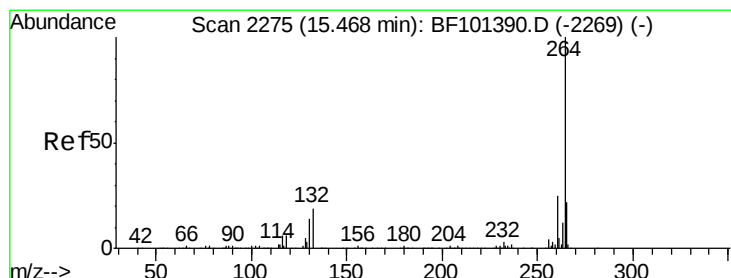
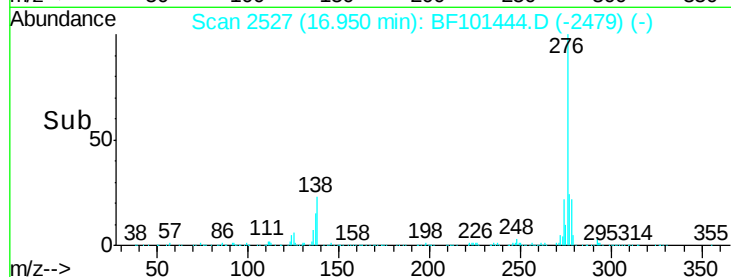
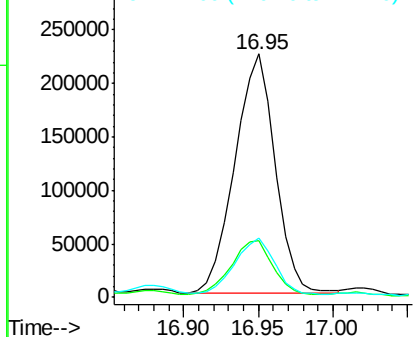


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2274
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

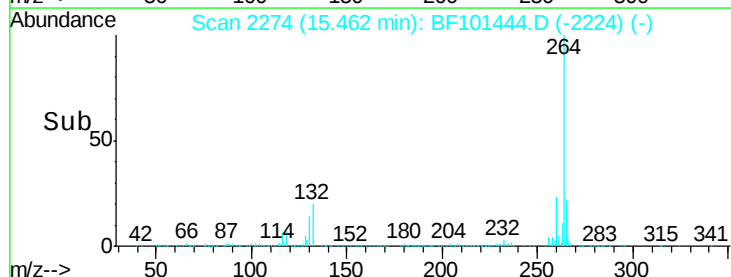
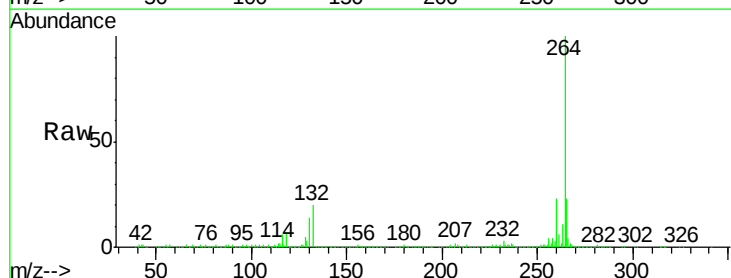
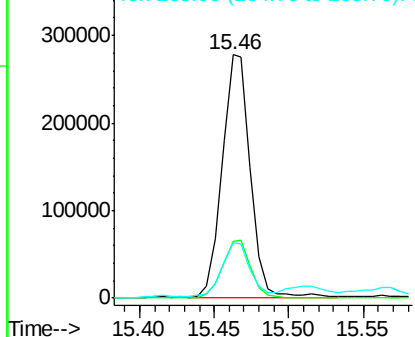
Tgt Ion	Ratio	Resp	Lower	Upper
264	100	366940		
260	23.4	19.2	28.8	
265	22.6	17.5	26.3	

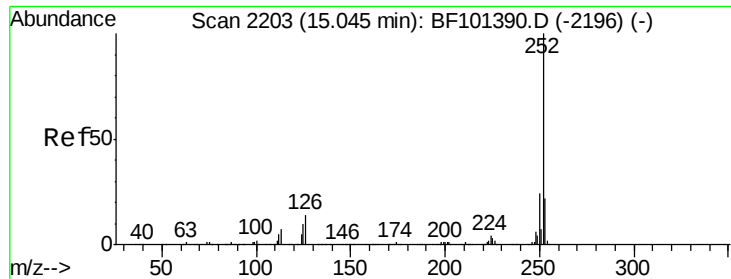
Abundance

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





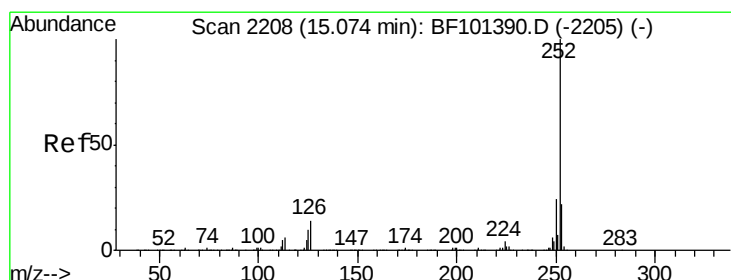
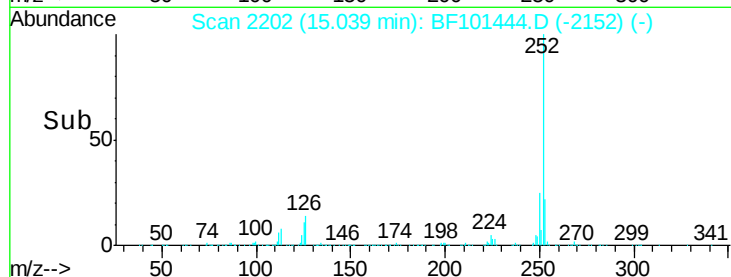
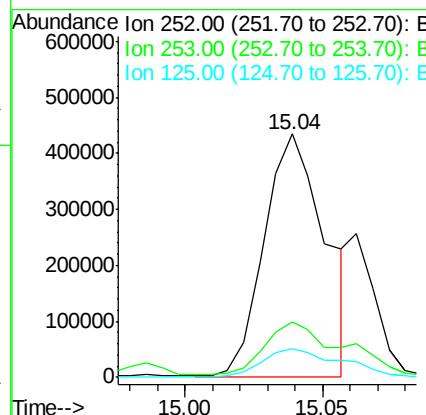
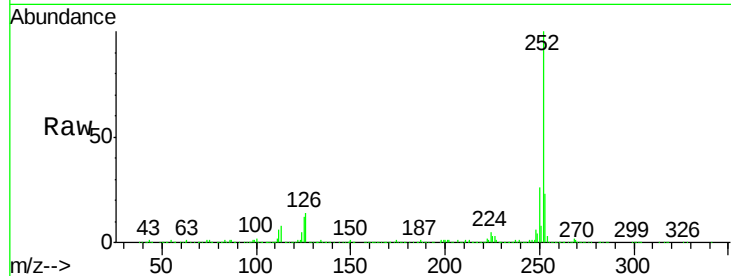
#87
Benzo(b)fluoranthene
Concen: 30.117 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Instrument :
BNA_F
ClientSampled :
SB-5(13-15)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	11.7	9.0	13.6

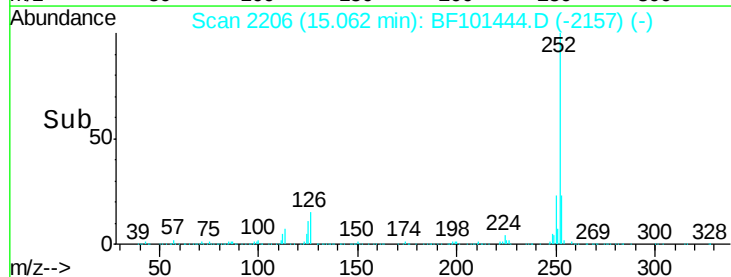
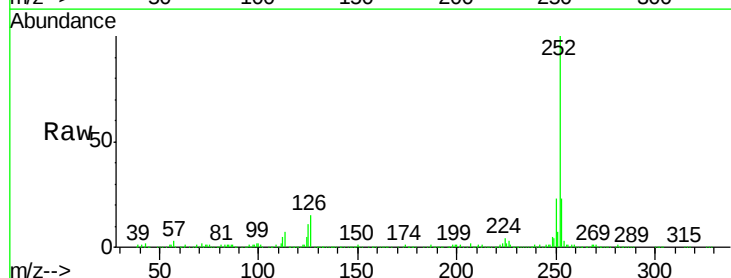
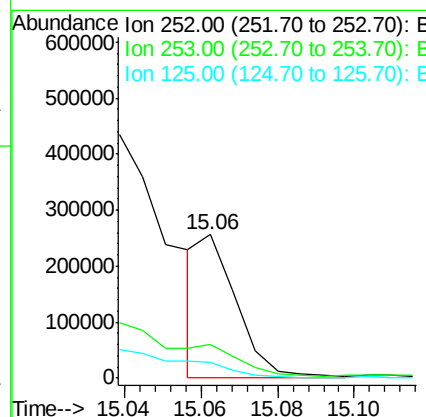
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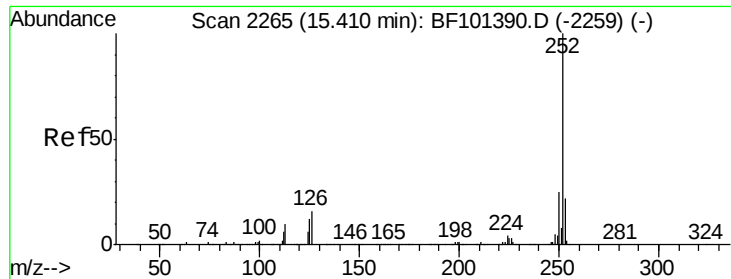
Sohil
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#88
Benzo(k)fluoranthene
Concen: 8.005 ng m
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	11.0	10.2	15.2





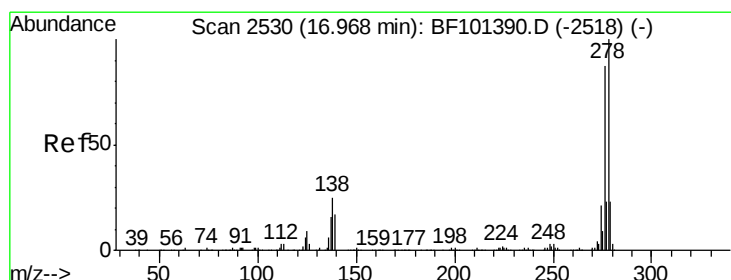
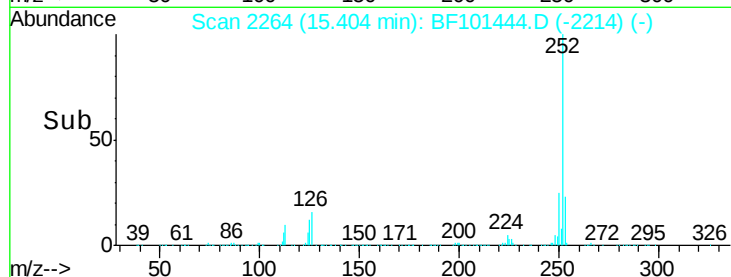
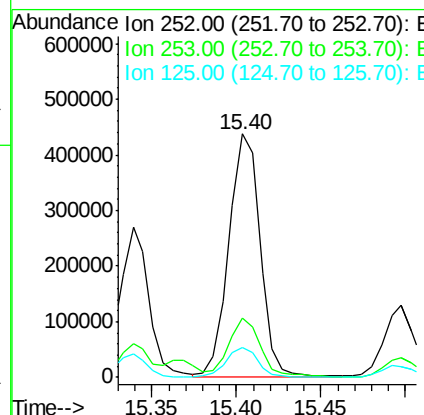
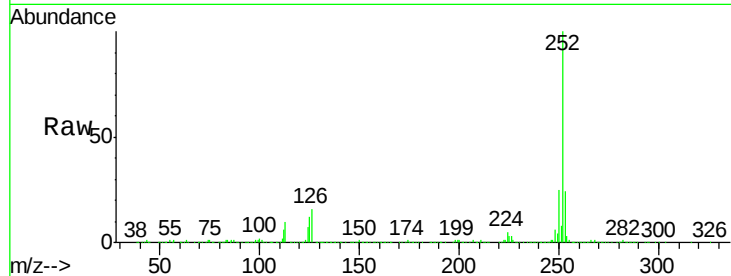
#89
Benzo(a)pyrene
Concen: 27.079 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Instrument :
BNA_F
ClientSampled :
SB-5(13-15)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.1	25.7
125	12.1	9.8	14.6

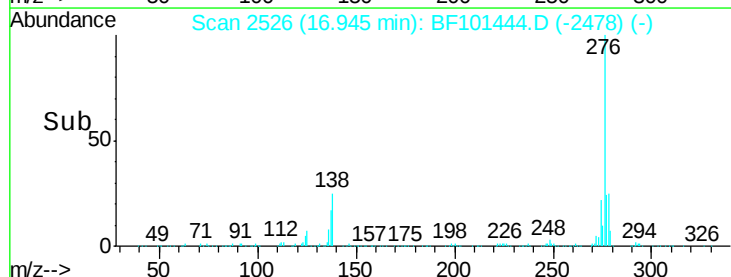
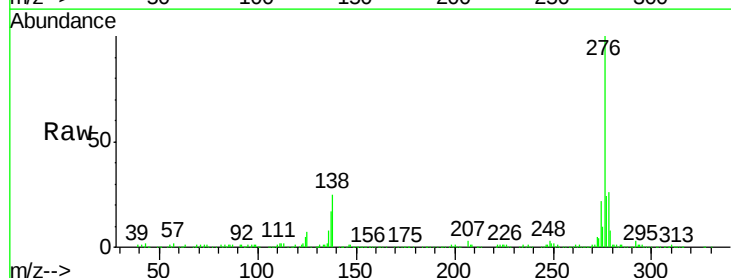
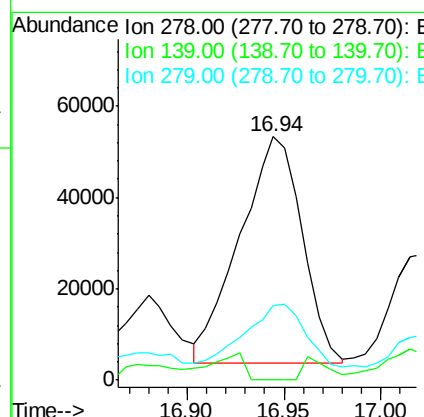
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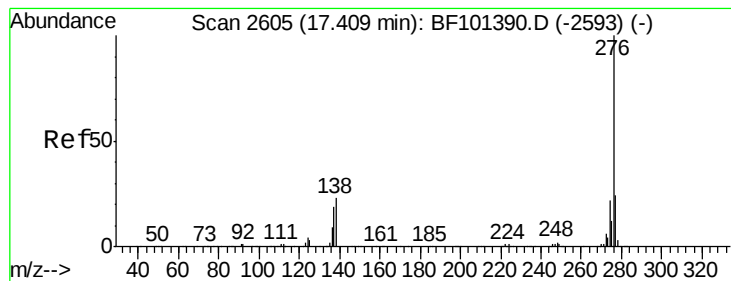
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 6.303 ng m
RT: 16.94 min Scan# 2526
Delta R.T. -0.02 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	30.4	19.0	28.4#





#91

Benzo(g,h,i)perylene

Concen: 21.891 ng

RT: 17.40 min Scan# 2603

Delta R.T. -0.01 min

Lab File: BF101444.D

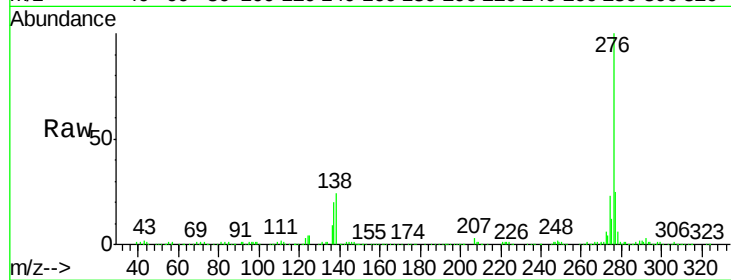
Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

ClientSampleId :

SB-5(13-15)



Tgt Ion: 276 Resp: 383722

Ion Ratio Lower Upper

276 100

277 25.4 17.9 26.9

138 23.9 21.8 32.8

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