

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051119\
 Data File : BF114182.D
 Acq On : 12 May 2019 4:23
 Operator : JU/SJ
 Sample : K2767-21 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0206-01

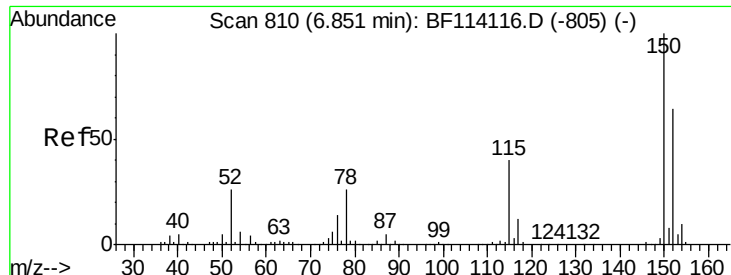
Manual Integrations
 APPROVED

Sohil
 5/13/2019 8:36:14 PM

Quant Time: May 13 08:31:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	258547	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	961519	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	420657	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	731039	20.00	ng	0.00
76) Chrysene-d12	14.01	240	575779	20.00	ng	-0.01
87) Perylene-d12	15.48	264	628428	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	332105	20.67	ng	0.00
7) Phenol-d6	6.49	99	460825	24.25	ng	0.00
23) Nitrobenzene-d5	7.40	82	262824	15.34	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	84106	19.34	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	429279	15.44	ng	0.00
79) Terphenyl-d14	12.94	244	318664	11.41	ng	-0.01
Target Compounds						
31) Naphthalene	8.15	128	190593	4.244	ng	98
37) 2-Methylnaphthalene	8.85	142	72477	2.501	ng	97
49) Acenaphthylene	9.75	152	285211	6.857	ng	98
71) Phenanthrene	11.39	178	998624	28.078	ng	98
72) Anthracene	11.45	178	169910	4.756	ng	97
75) Fluoranthene	12.59	202	1296399	33.849	ng	99
78) Pyrene	12.82	202	2267114	48.946	ng	99
81) Benzo(a)anthracene	14.00	228	885298m	23.772	ng	
83) Chrysene	14.03	228	1000108	27.395	ng	99
86) Indeno(1,2,3-cd)pyrene	16.94	276	399352	12.378	ng	97
88) Benzo(b)fluoranthene	15.06	252	1105219m	27.452	ng	
89) Benzo(k)fluoranthene	15.07	252	228558m	6.180	ng	
90) Benzo(a)pyrene	15.42	252	678192	19.140	ng	99
91) Dibenzo(a,h)anthracene	16.94	278	104752m	3.558	ng	
92) Benzo(a,h,i)perylene	17.39	276	450630	15.272	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.85 min Scan# 810

Delta R.T. -0.00 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

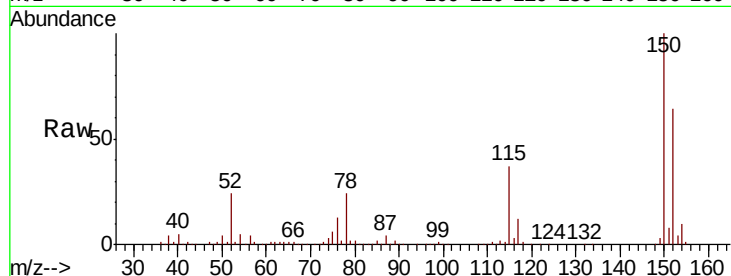
ClientSampleId :

P026-SS013-0206-01

Tot Ion:	152	Resp:	258547
Ion Ratio	Lower	Upper	
152	100		
150	155.2	124.3	186.5
115	57.4	49.1	73.7

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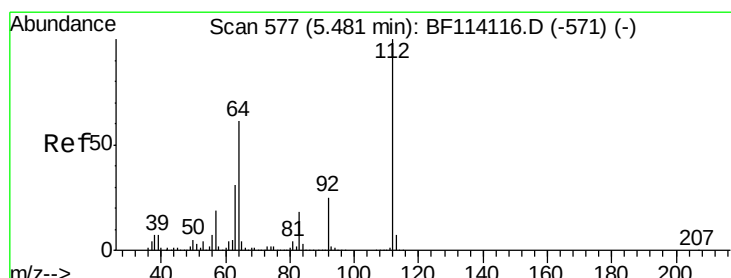
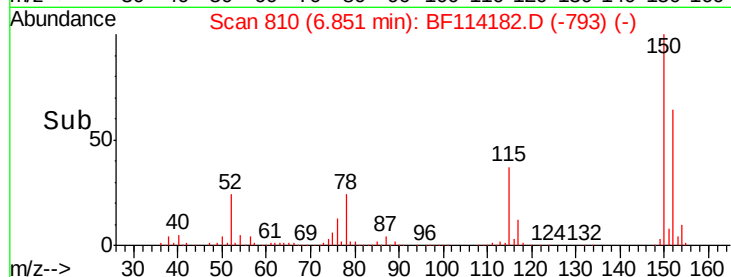
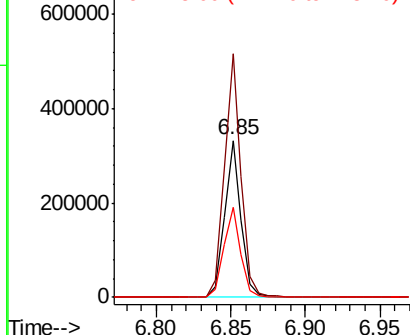


Abundance

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: 20.671 ng

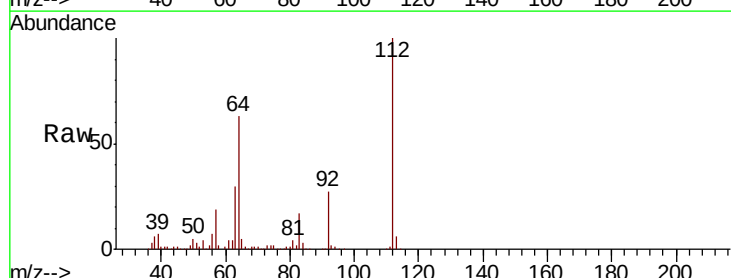
RT: 5.47 min Scan# 576

Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Tgt Ion:	112	Resp:	332105
Ion Ratio	Lower	Upper	
112	100		
64	62.7	49.0	73.6
63	30.3	24.6	37.0

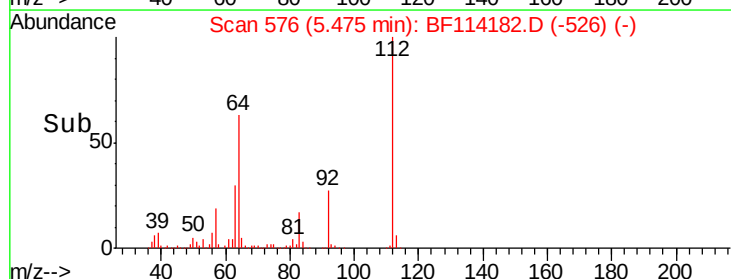
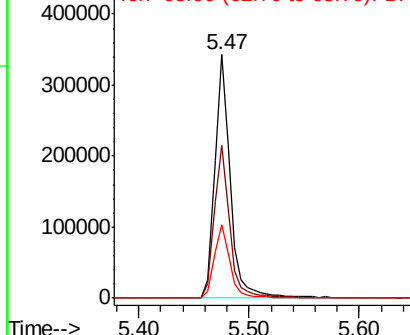


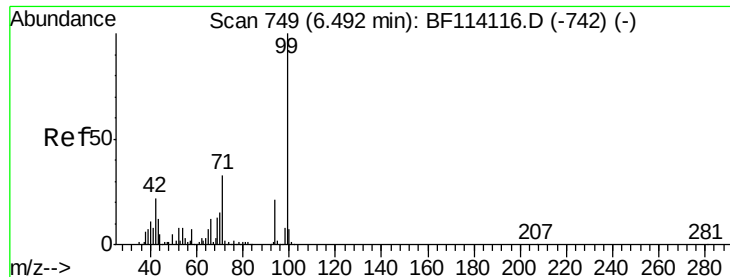
Abundance

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: 24.251 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

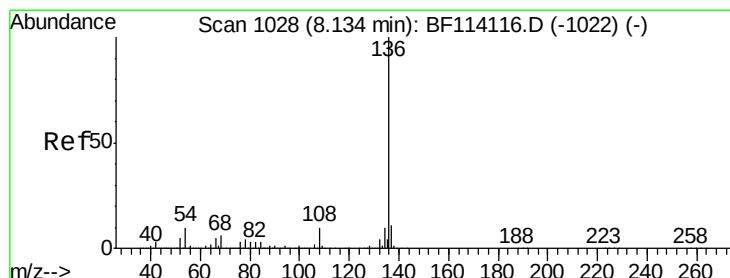
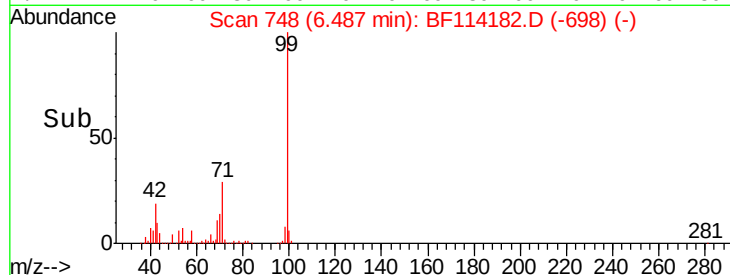
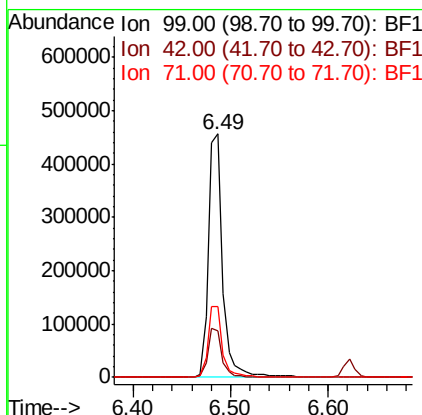
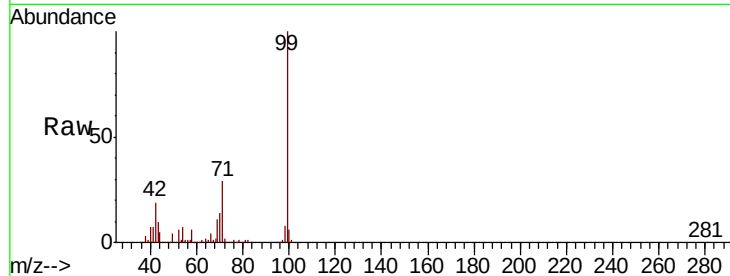
ClientSampleId :

P026-SS013-0206-01

Tot Ion:	99	Resp:	460825
Ion Ratio	Lower	Upper	
99	100		
42	19.3	17.9	26.9
71	28.9	26.2	39.2

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#21

Naphthalene-d8

Concen: 20.000 ng

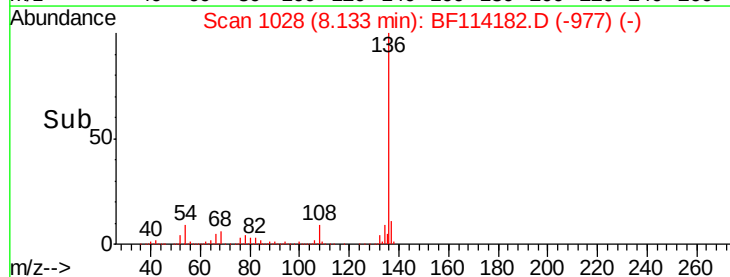
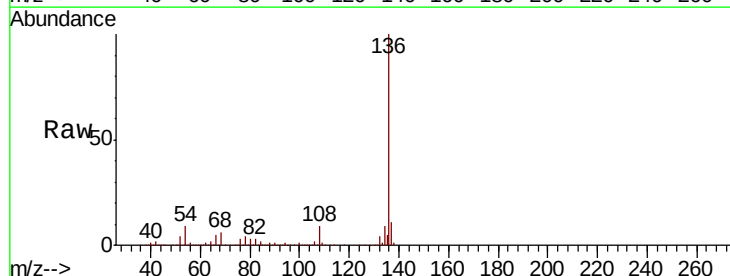
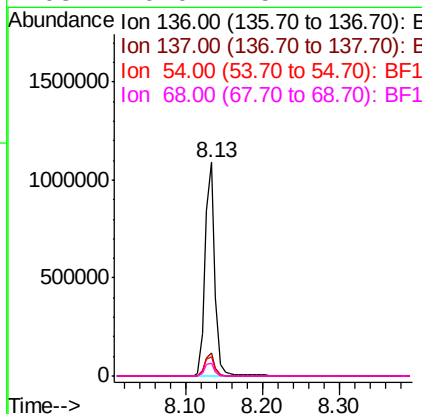
RT: 8.13 min Scan# 1028

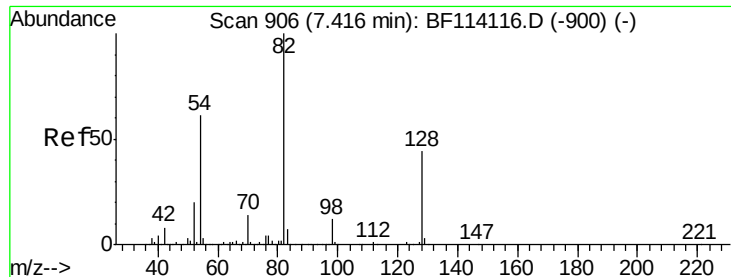
Delta R.T. -0.00 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Tgt Ion:	136	Resp:	961519
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.8	13.2
54	8.9	7.8	11.8
68	6.0	5.1	7.7





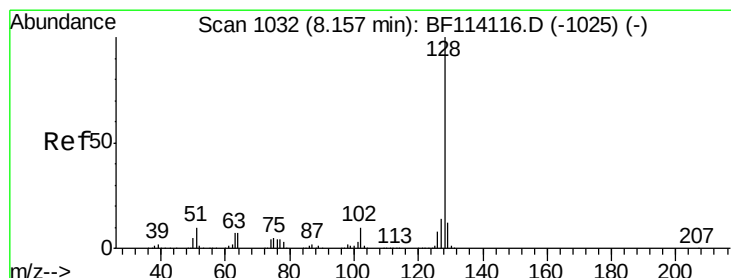
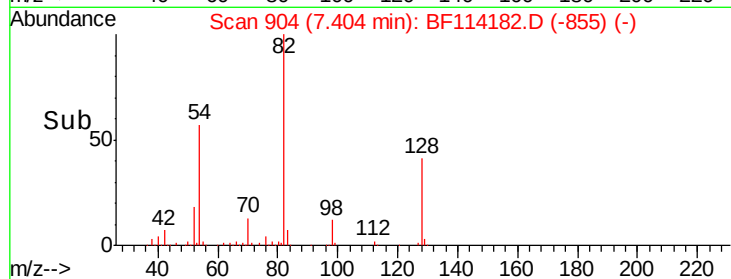
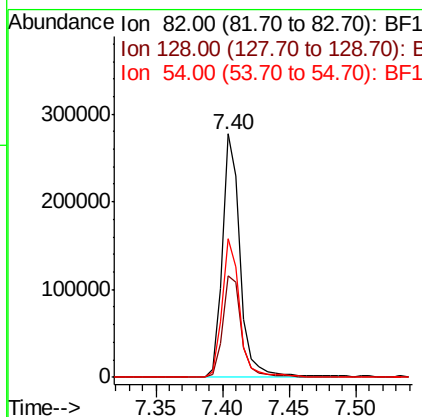
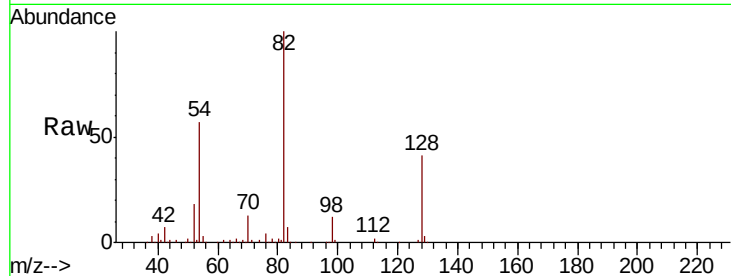
#23
Nitrobenzene-d5
Concen: 15.340 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

Tot Ion	Ratio	Resp	Lower	Upper
82	100	262824		
128	41.5	35.5	53.3	
54	56.9	48.5	72.7	

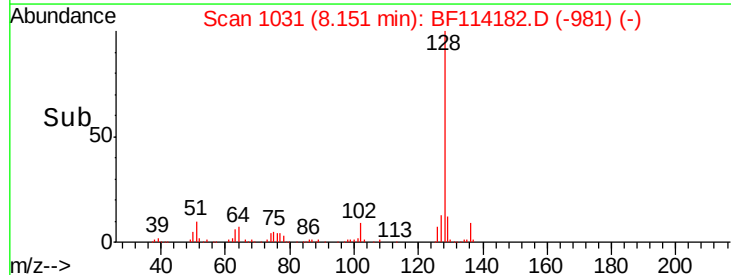
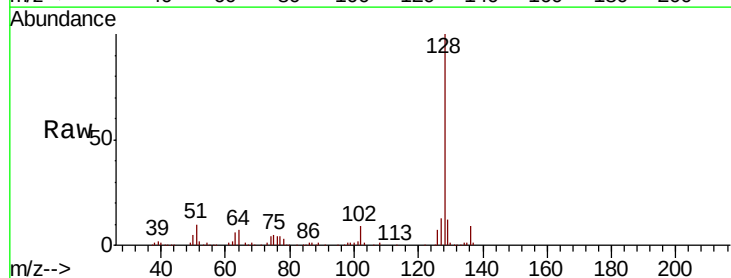
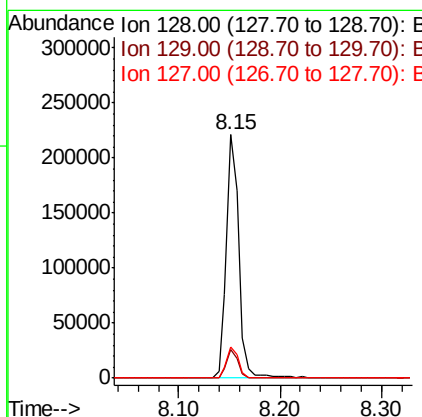
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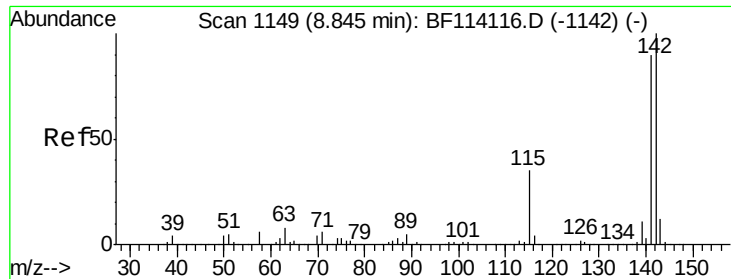
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#31
Naphthalene
Concen: 4.244 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	190593		
129	11.8	9.6	14.4	
127	12.9	11.3	16.9	





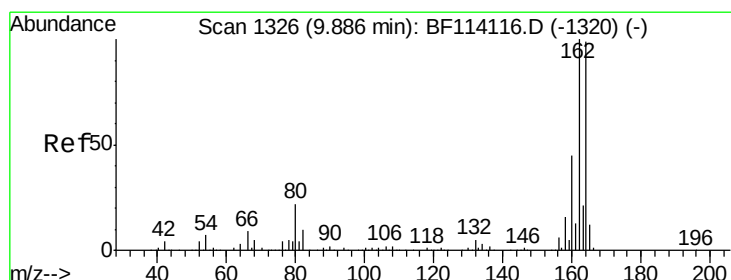
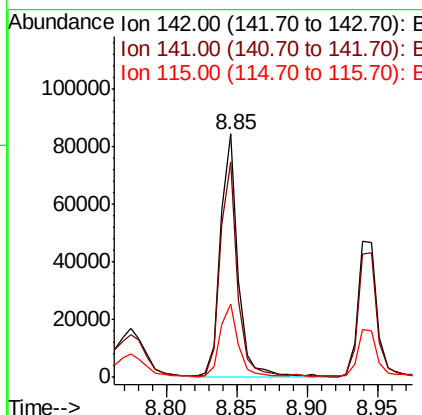
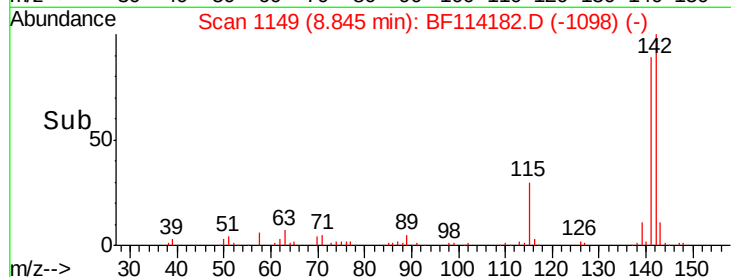
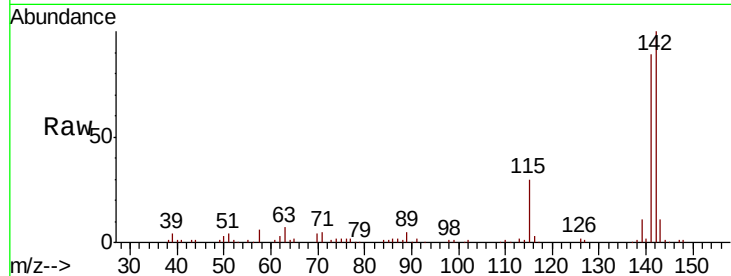
#37
2-Methylnaphthalene
Concen: 2.501 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.00 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.1	108.1
115	30.4	28.0	42.0

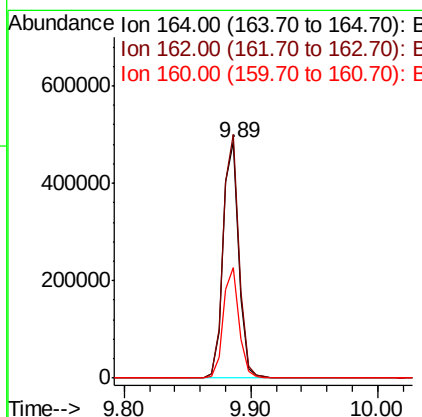
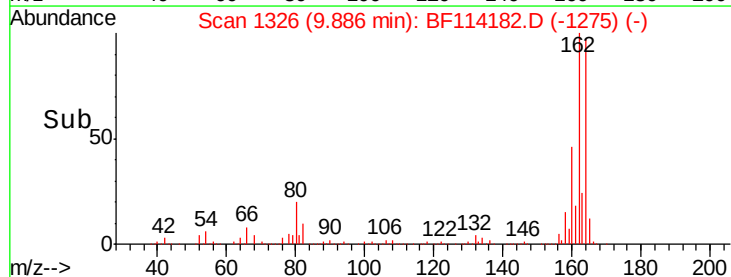
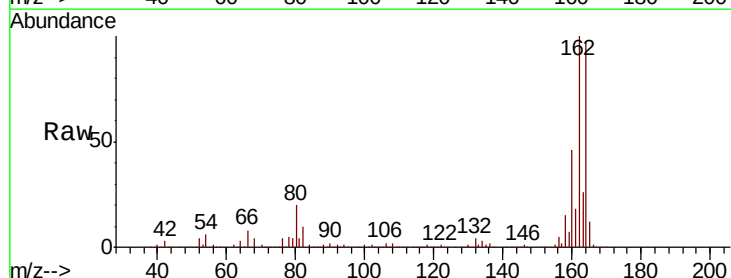
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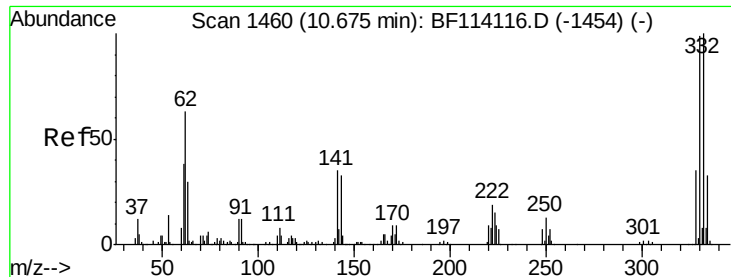
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	80.6	120.8
160	47.0	36.5	54.7





#42

2,4,6-Tribromophenol

Concen: 19.340 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

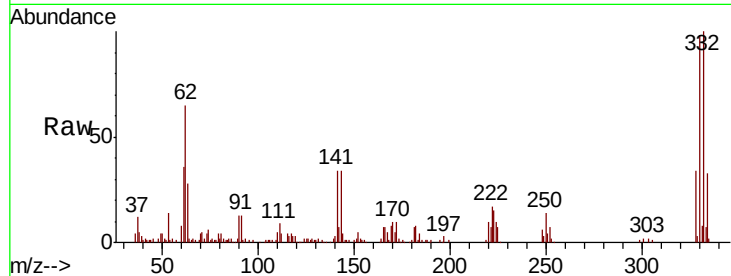
ClientSampleId :

P026-SS013-0206-01

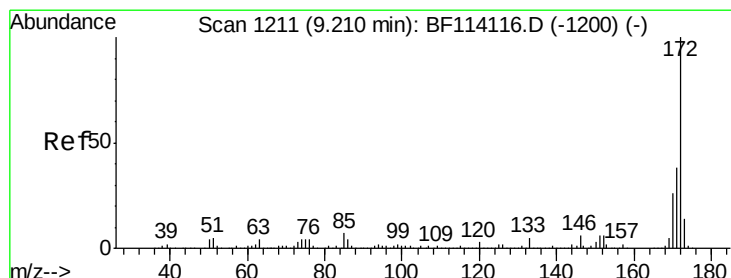
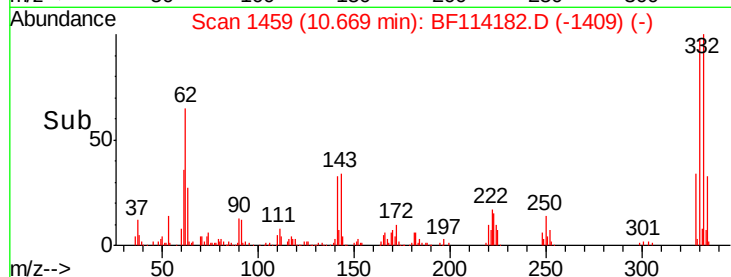
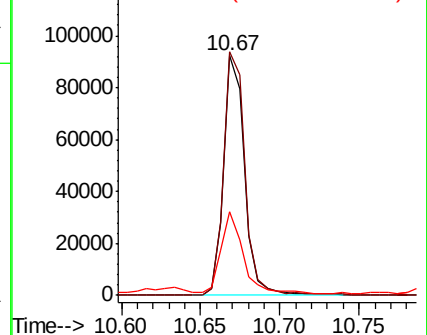
Tot Ion:	330	Resp:	84106
Ion Ratio	Lower	Upper	
330	100		
332	104.3	81.4	122.2
141	35.7	26.6	40.0

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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



#45

2-Fluorobiphenyl

Concen: 15.437 ng

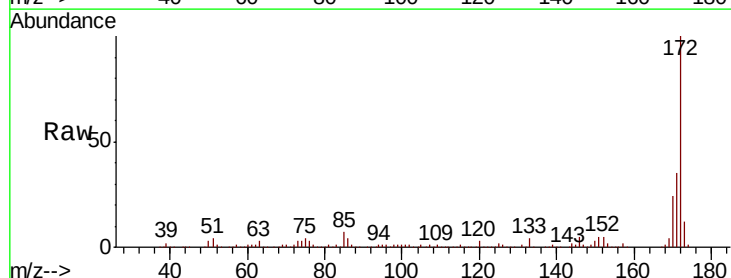
RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

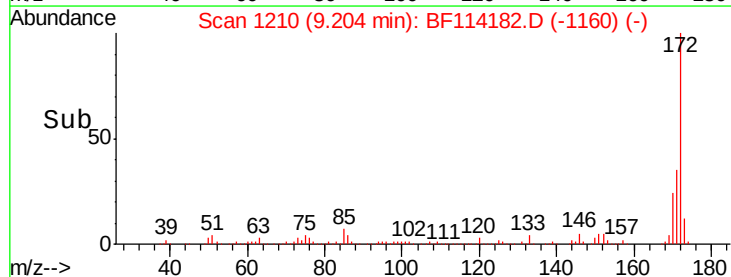
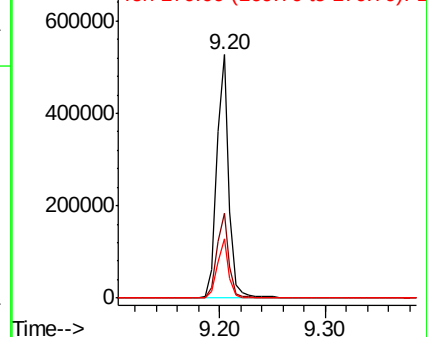
Lab File: BF114182.D

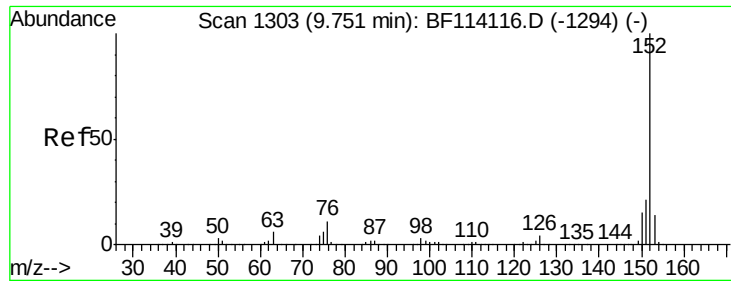
Acq: 12 May 2019 4:23

Tgt Ion:	172	Resp:	429279
Ion Ratio	Lower	Upper	
172	100		
171	34.7	30.7	46.1
170	24.2	20.5	30.7



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





#49

Acenaphthylene

Concen: 6.857 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

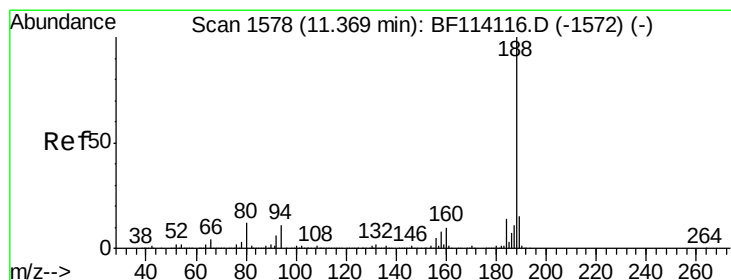
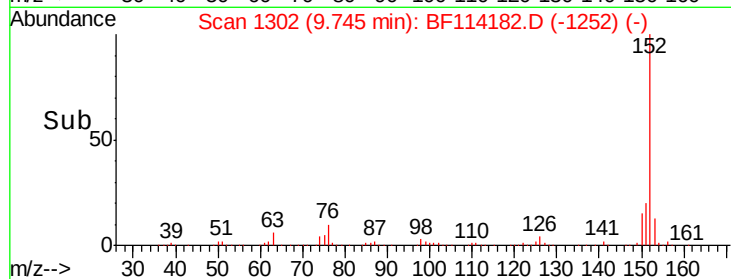
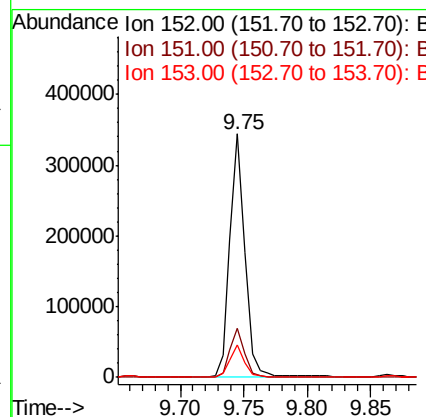
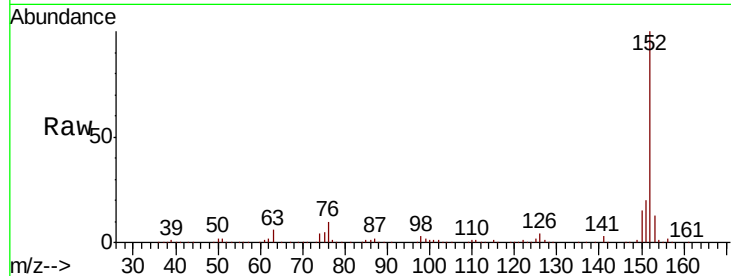
ClientSampleId :

P026-SS013-0206-01

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.8	25.2
153	13.1	11.4	17.2

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#64

Phenanthrene-d10

Concen: 20.000 ng

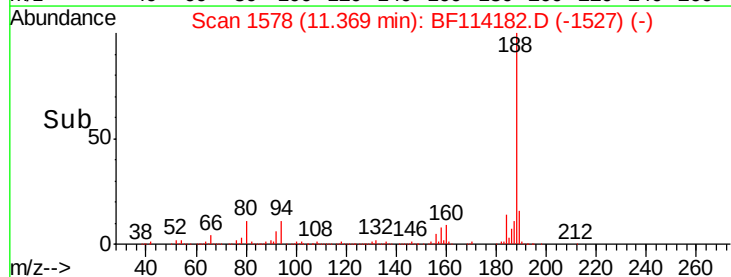
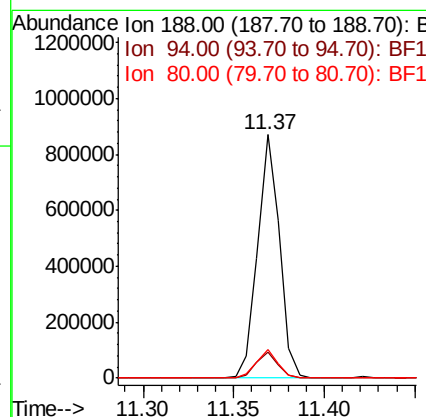
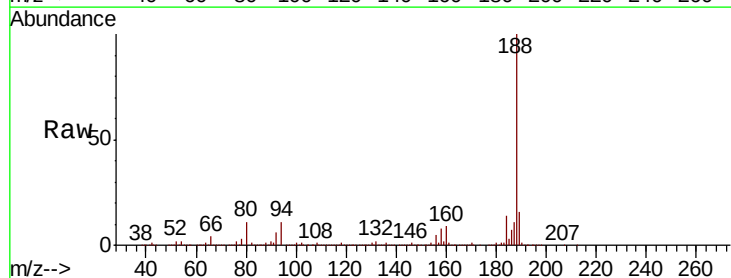
RT: 11.37 min Scan# 1578

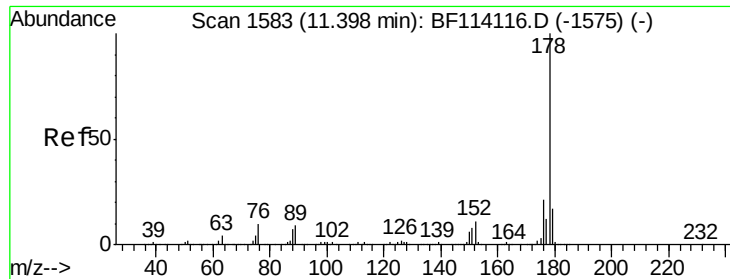
Delta R.T. -0.00 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.8	8.4	12.6
80	11.5	9.2	13.8





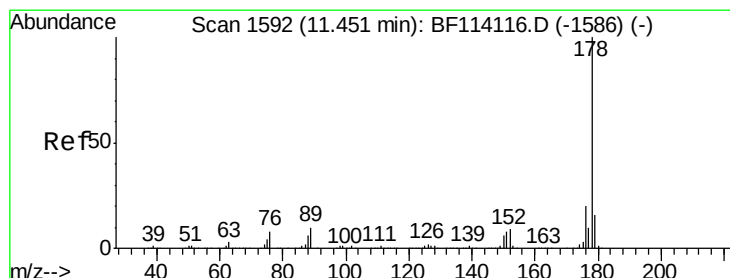
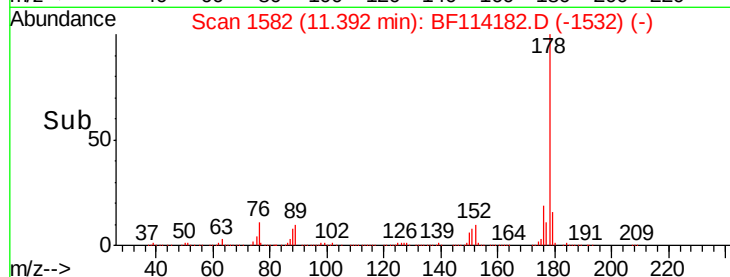
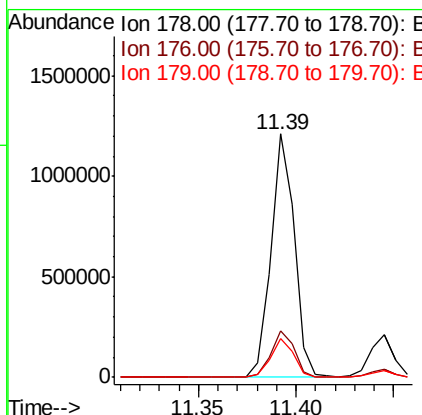
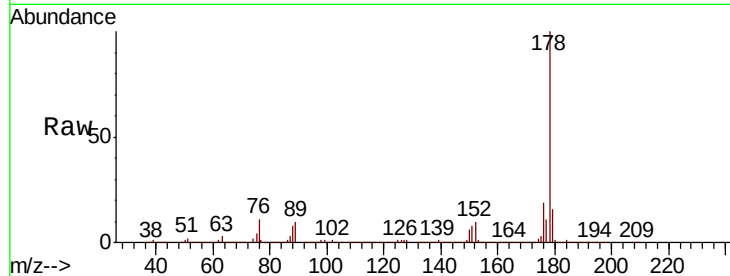
#71
Phenanthrene
Concen: 28.078 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.4	24.6
179	15.9	13.2	19.8

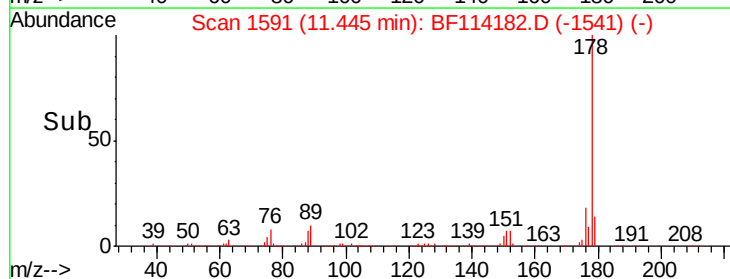
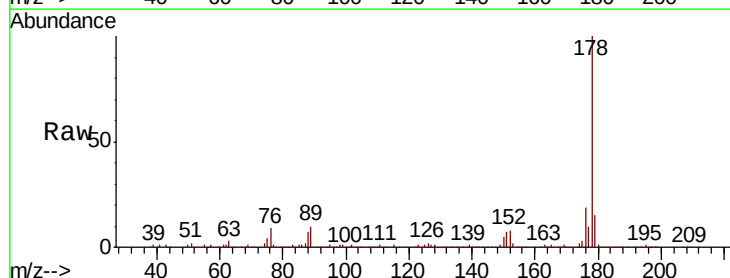
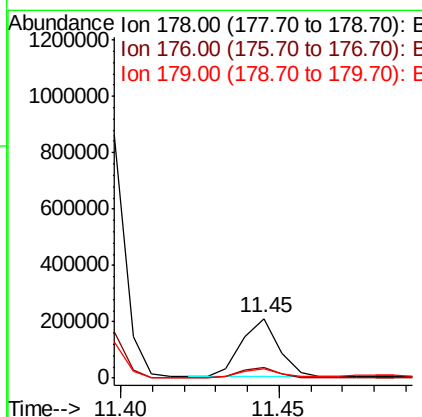
Manual Integrations
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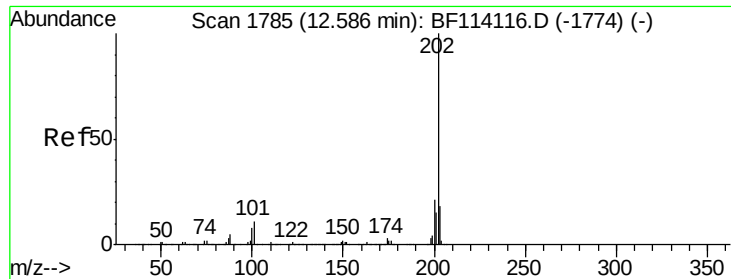
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#72
Anthracene
Concen: 4.756 ng
RT: 11.45 min Scan# 1591
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	14.8	13.0	19.4





#75

Fluoranthene

Concen: 33.849 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.00 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

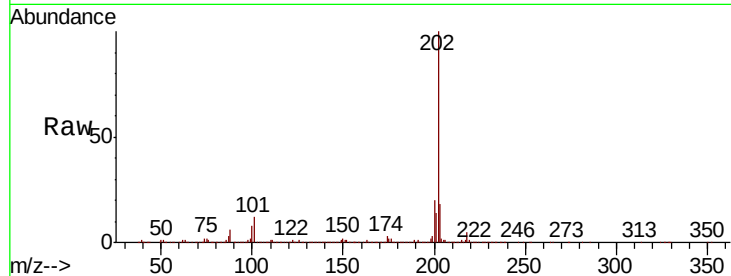
ClientSampleId :

P026-SS013-0206-01

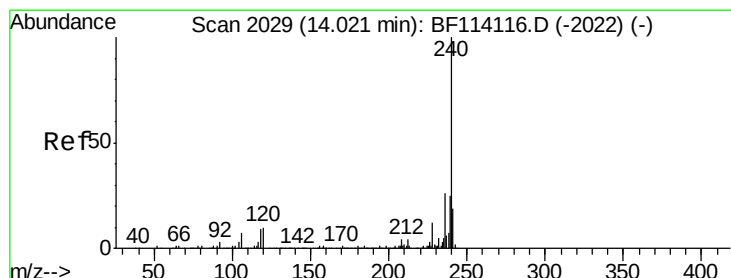
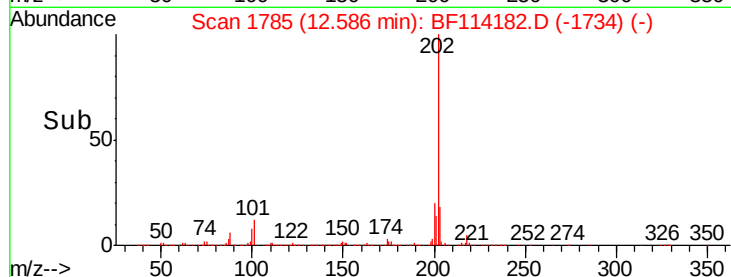
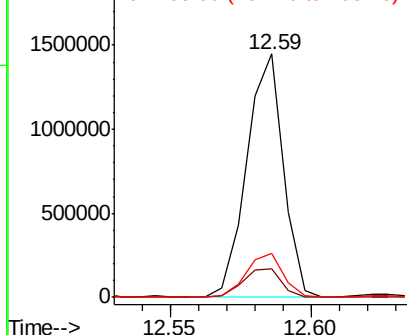
Tot Ion	Ratio	Resp	Lower	Upper
202	100	1296399		
101	11.8	0.0	31.0	
203	18.1	0.0	38.4	

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

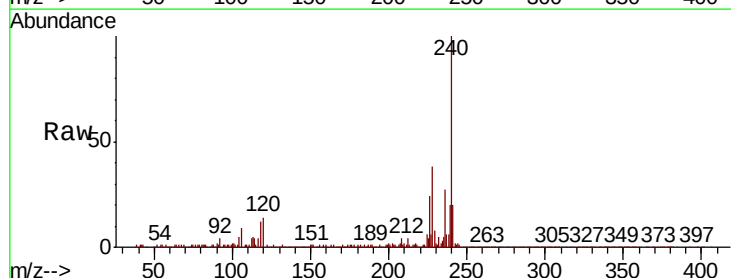
RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

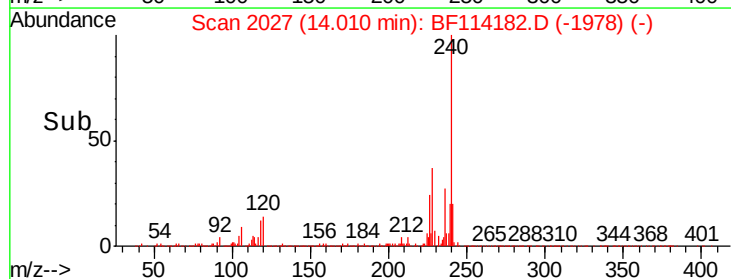
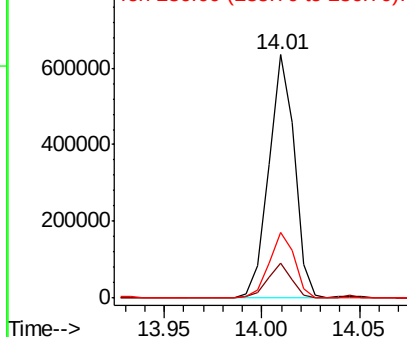
Lab File: BF114182.D

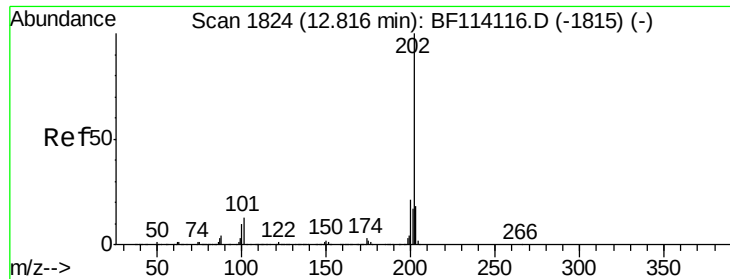
Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	575779		
120	14.4	8.3	12.5#	
236	27.1	20.8	31.2	



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





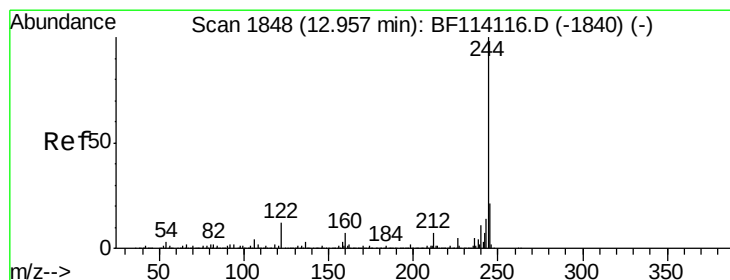
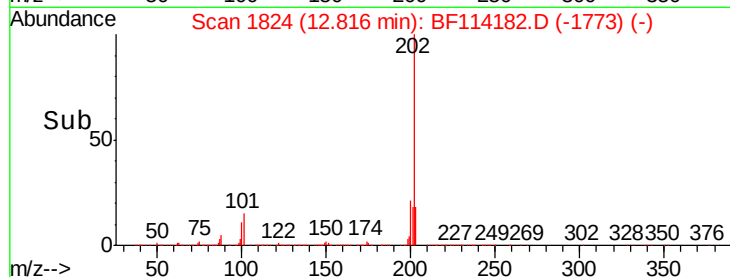
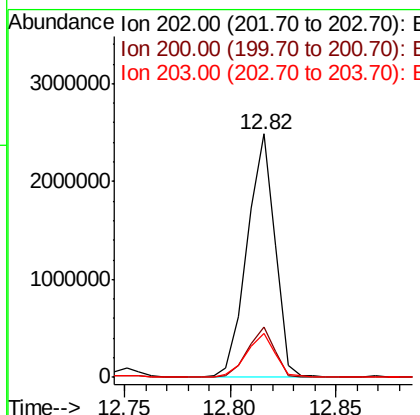
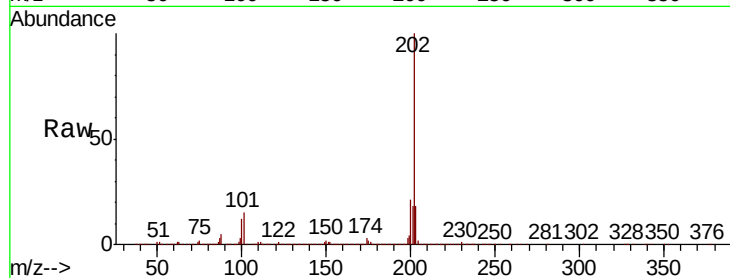
#78
Pvrene
Concen: 48.946 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.00 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.9	25.3
203	18.3	14.5	21.7

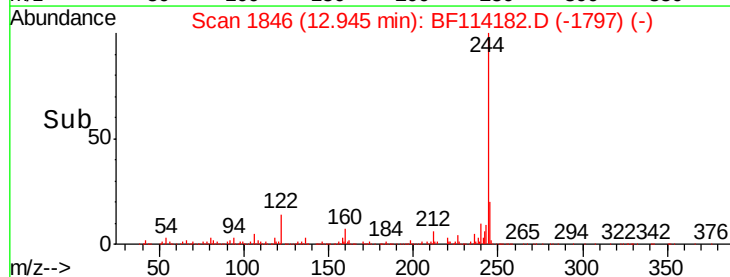
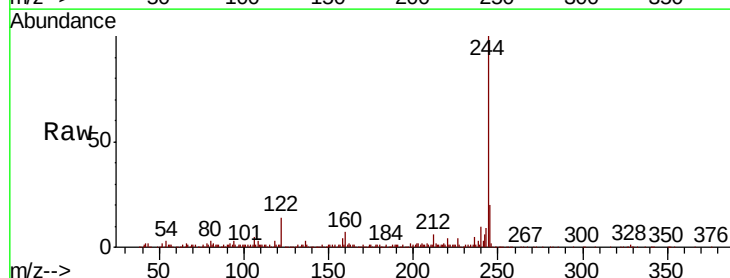
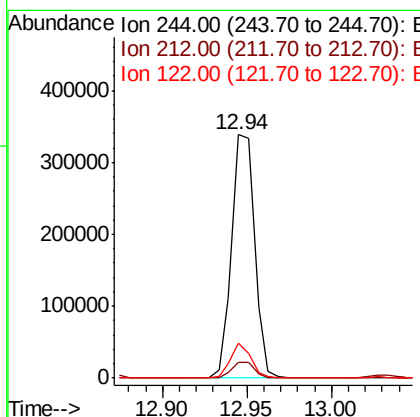
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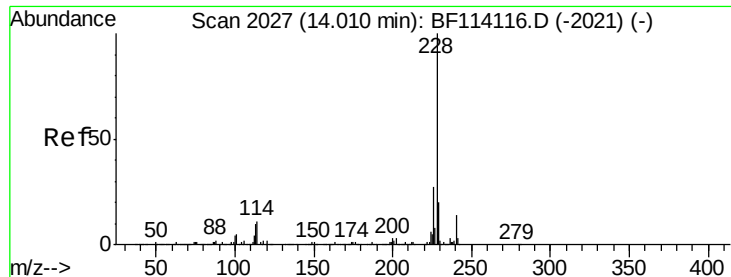
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#79
Terphenyl-d14
Concen: 11.409 ng
RT: 12.94 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.8	8.6
122	14.2	9.4	14.2#





#81

Benzo(a)anthracene

Concen: 23.772 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

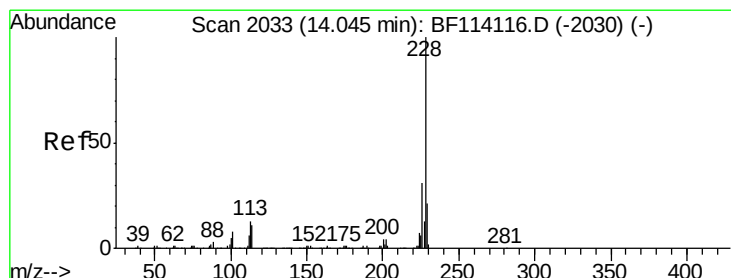
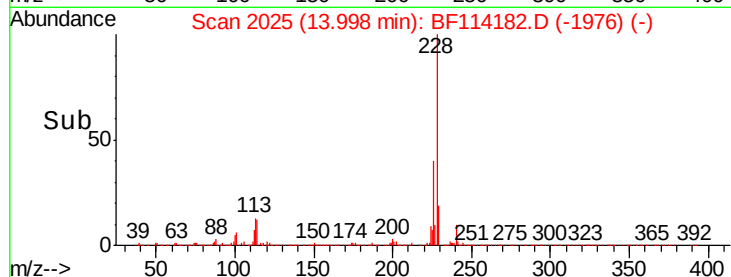
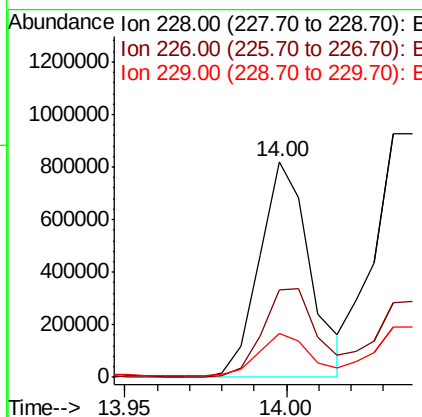
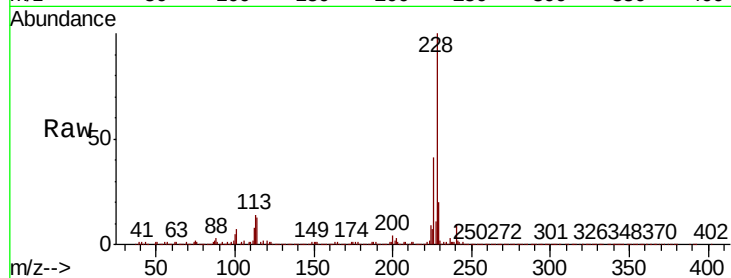
ClientSampleId :

P026-SS013-0206-01

Tot Ion:	228	Resp:	885298
Ion Ratio	Lower	Upper	
228	100		
226	40.6	22.2	33.2#
229	20.2	16.4	24.6

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#83

Chrysene

Concen: 27.395 ng

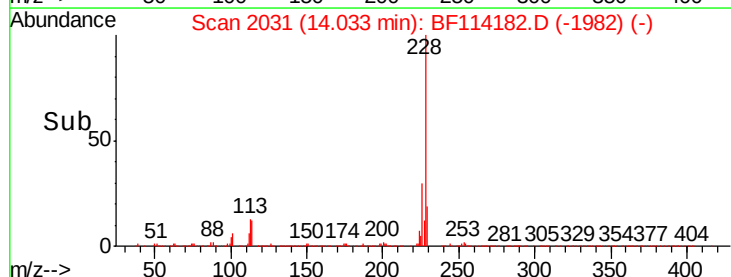
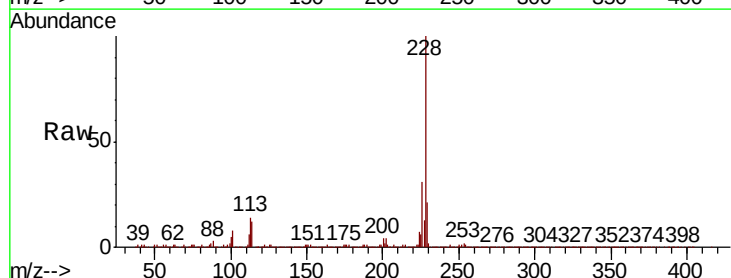
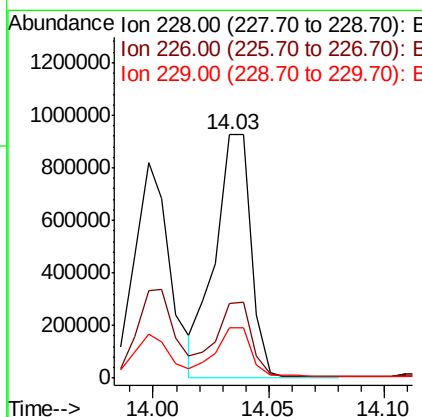
RT: 14.03 min Scan# 2031

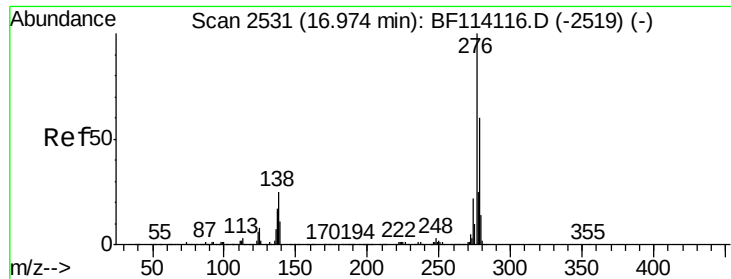
Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Tgt Ion:	228	Resp:	1000108
Ion Ratio	Lower	Upper	
228	100		
226	30.6	25.0	37.6
229	20.6	17.0	25.6





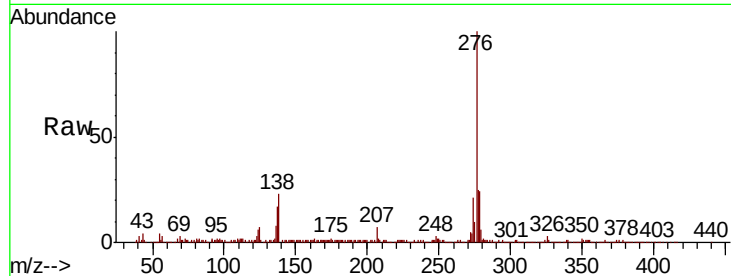
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 12.378 ng
 RT: 16.94 min Scan# 2526
 Delta R.T. -0.03 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0206-01

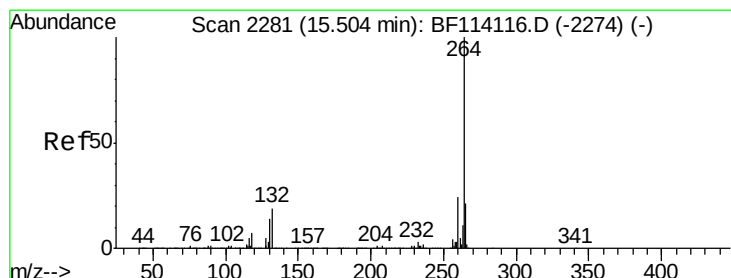
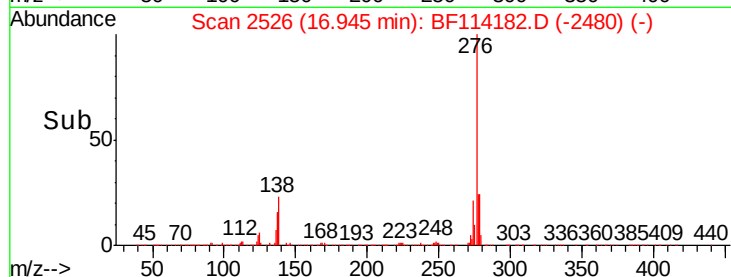
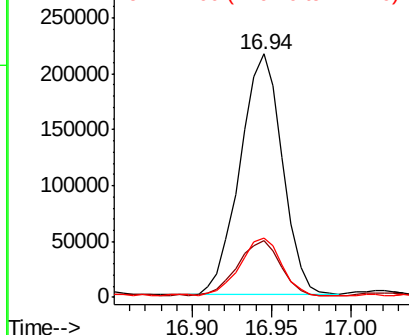
Tot Ion:	276	Resp:	399352
Ion Ratio		Lower	Upper
276	100		
138	23.1	20.2	30.2
277	24.0	20.0	30.0

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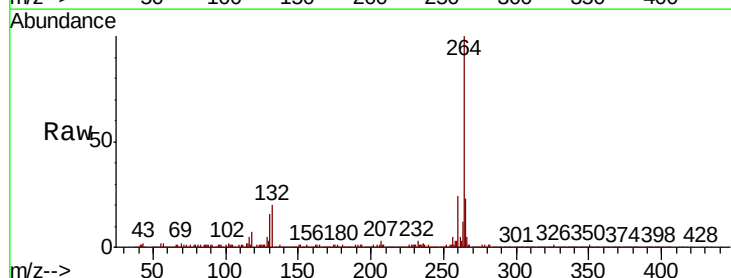


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

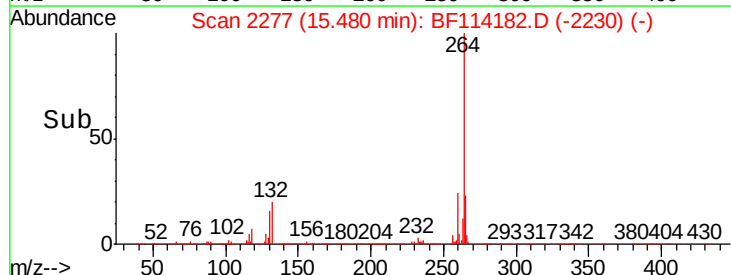
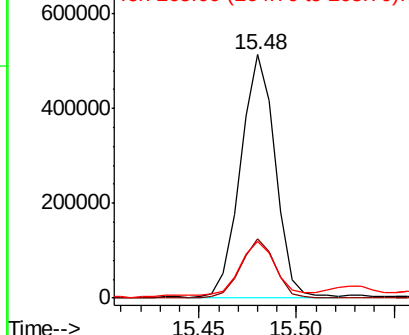


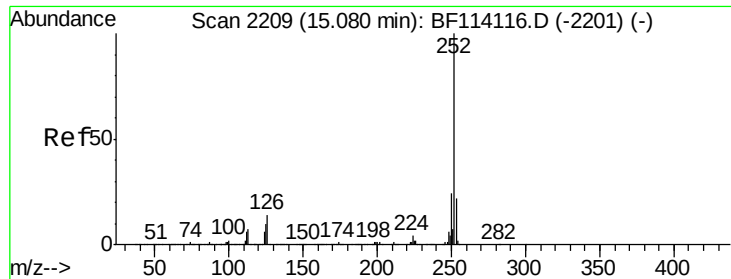
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.48 min Scan# 2277
 Delta R.T. -0.02 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

Tgt Ion:	264	Resp:	628428
Ion Ratio		Lower	Upper
264	100		
260	24.4	19.4	29.0
265	23.1	16.9	25.3



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





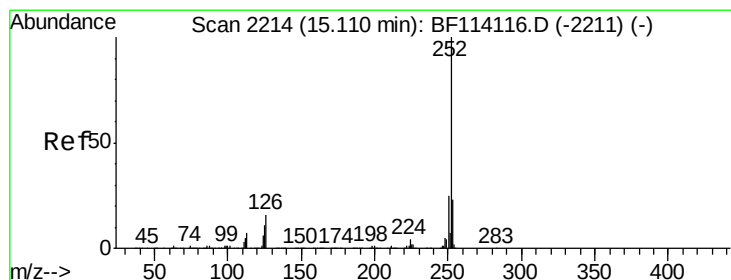
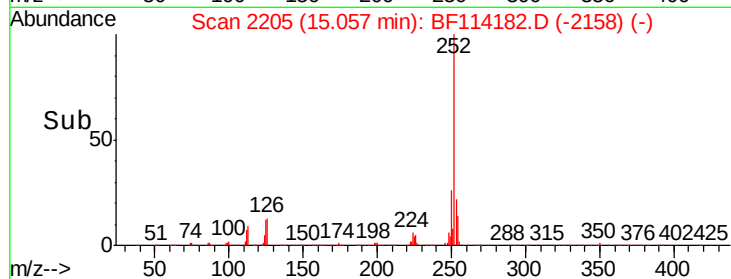
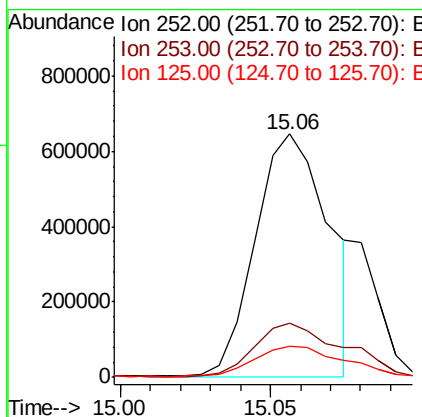
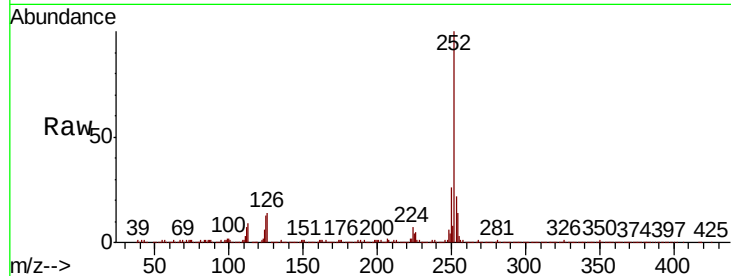
#88
Benzo(b)fluoranthene
Concen: 27.452 ng m
RT: 15.06 min Scan# 2205
Delta R.T. -0.02 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	13.0	8.3	12.5

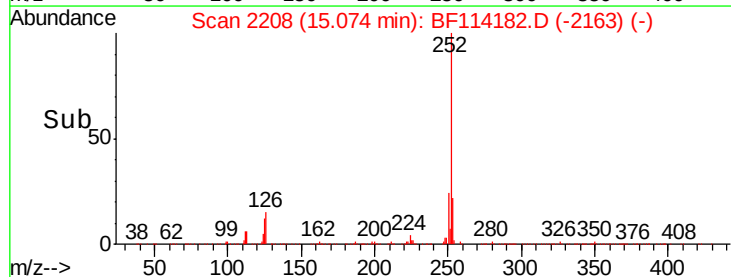
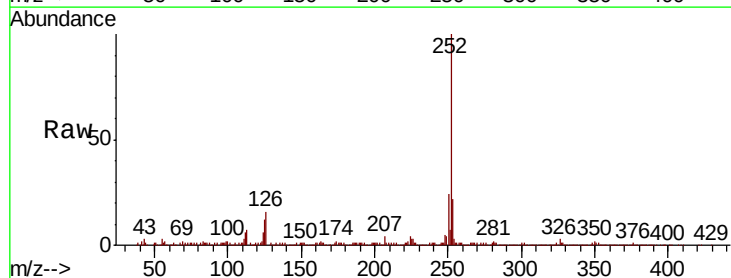
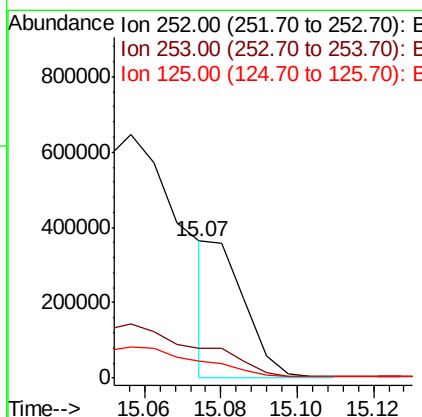
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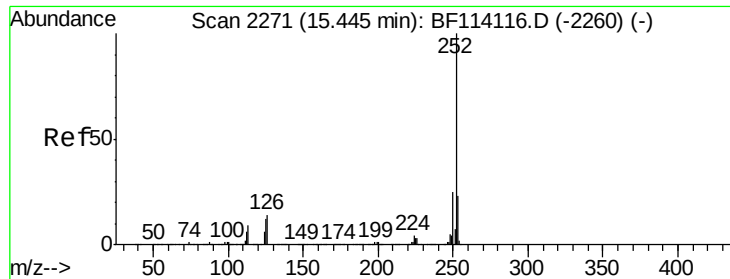
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#89
Benzo(k)fluoranthene
Concen: 6.180 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.04 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2
125	12.5	8.6	13.0





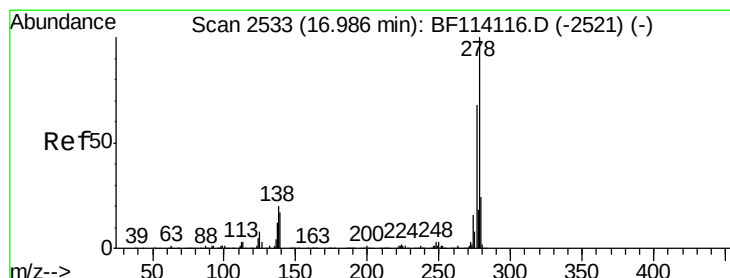
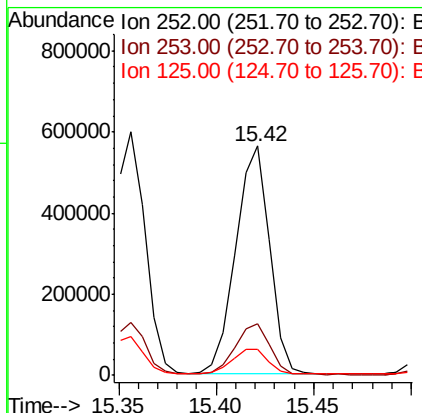
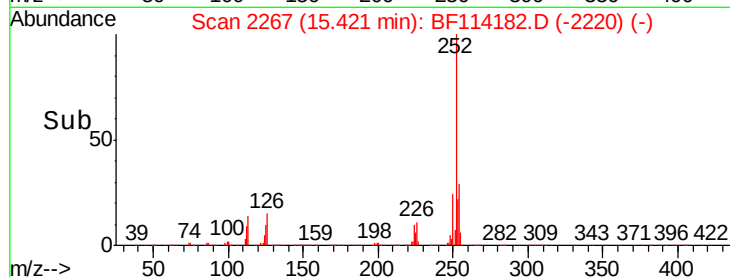
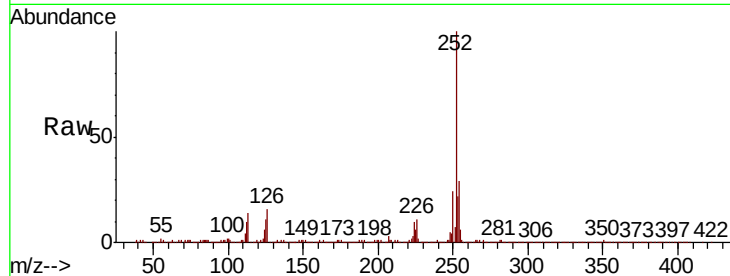
#90
Benzo(a)pyrene
Concen: 19.140 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.02 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	11.5	9.5	14.3

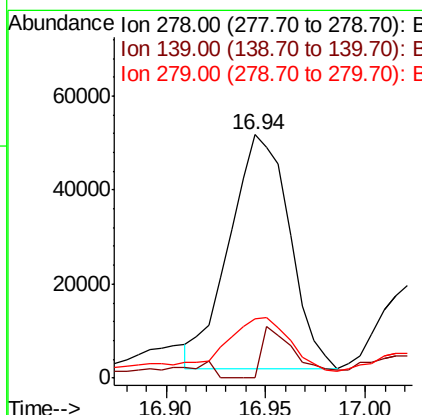
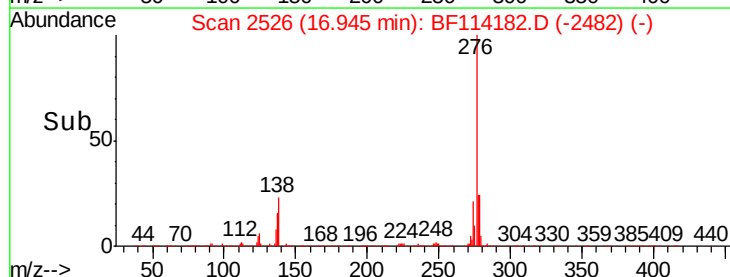
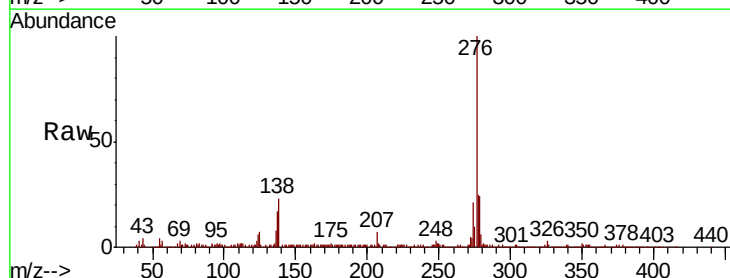
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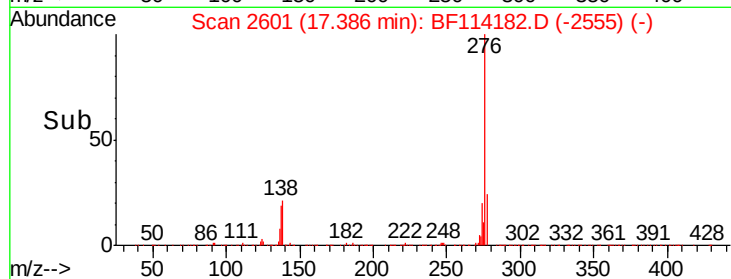
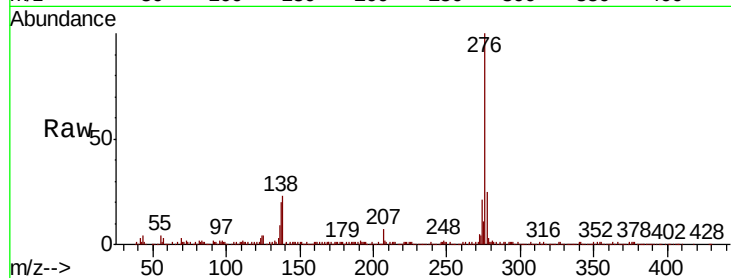
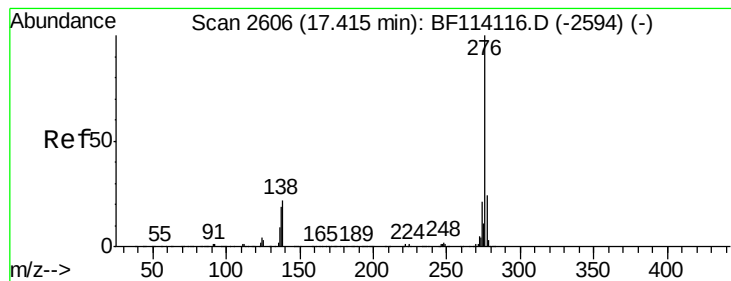
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#91
Dibenzo(a,h)anthracene
Concen: 3.558 ng m
RT: 16.94 min Scan# 2526
Delta R.T. -0.04 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.5	20.3#
279	24.3	19.0	28.6





#92

Benzo(a,h,i)perylene

Concen: 15.272 ng

RT: 17.39 min Scan# 2601

Delta R.T. -0.03 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0206-01

Tot Ion:	276	Resp:	450630
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.0	28.4
138	22.9	17.8	26.6

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