

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090119\
 Data File : BF116762.D
 Acq On : 2 Sep 2019 00:10
 Operator : HP/JU
 Sample : K4618-03DL 25X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-14-16DL2

Manual Integrations
 APPROVED

mohammad
 9/5/2019 9:55:13 AM

Quant Time: Sep 02 07:08:29 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	83368	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	380434	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	217656	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	376444	20.00	ng	0.00
76) Chrysene-d12	13.99	240	247131	20.00	ng	0.00
87) Perylene-d12	15.44	264	228979	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	16508	3.21	ng	-0.01
7) Phenol-d6	6.47	99	23849	3.53	ng	-0.01
23) Nitrobenzene-d5	7.40	82	10571	1.59	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	3248	2.23	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	19029	1.47	ng	-0.01
79) Terphenyl-d14	12.94	244	20176	1.51	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.15	128	55523	3.069	ng	98
52) Acenaphthene	9.91	154	40781	3.356	ng	99
55) Dibenzofuran	10.09	168	45575	2.661	ng	95
58) Fluorene	10.43	166	54800	4.199	ng	100
71) Phenanthrene	11.39	178	488784	23.325	ng	99
72) Anthracene	11.44	178	140362	6.654	ng	99
73) Carbazole	11.59	167	47051	2.342	ng	97
75) Fluoranthene	12.57	202	392124	19.041	ng	100
78) Pyrene	12.80	202	349929	15.929	ng	99
81) Benzo(a)anthracene	13.98	228	124595	7.966	ng	100
83) Chrysene	14.02	228	105769	6.564	ng	96
86) Indeno(1,2,3-cd)pyrene	16.89	276	33272	2.571	ng	96
88) Benzo(b)fluoranthene	15.03	252	100392m	7.252	ng	
89) Benzo(k)fluoranthene	15.05	252	36442m	2.887	ng	
90) Benzo(a)pyrene	15.38	252	77820	6.461	ng	97
92) Benzo(g,h,i)perylene	17.32	276	33680	3.132	ng	# 88

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

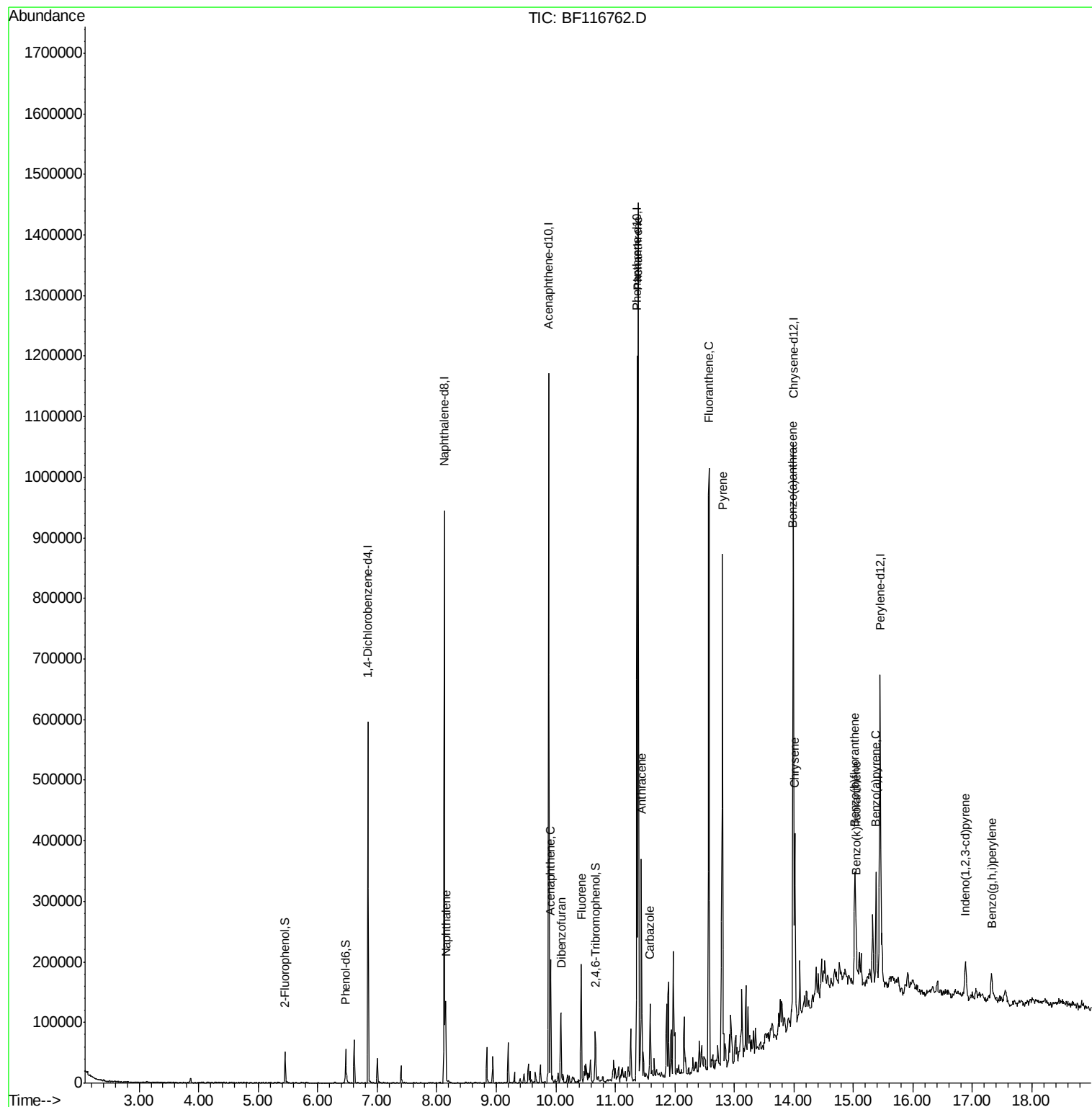
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090119\
Data File : BF116762.D
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#1

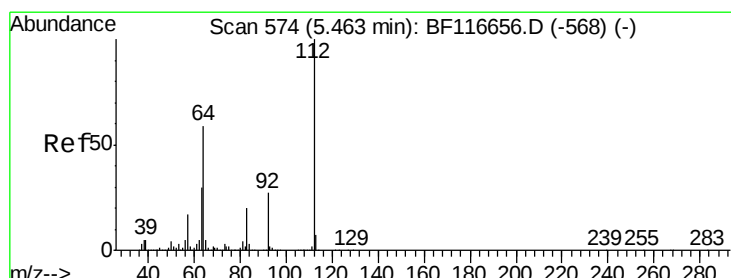
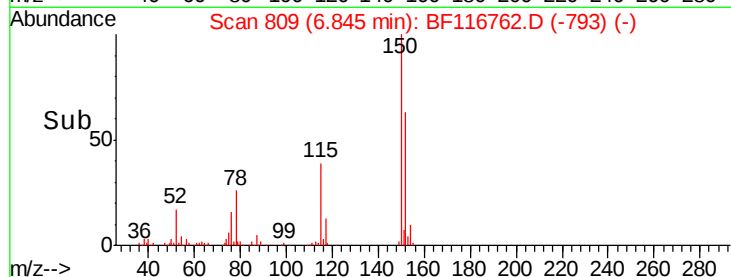
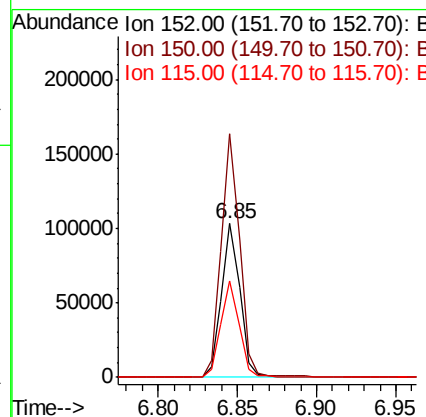
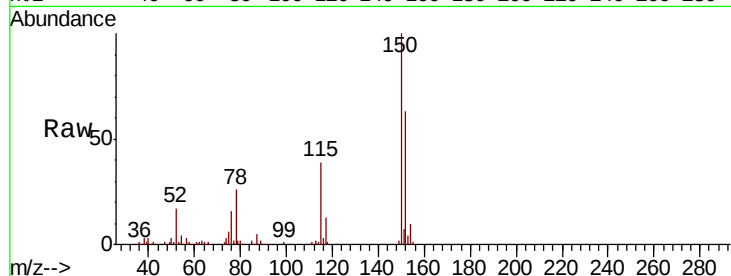
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL2

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	124.4	186.6
115	62.4	49.9	74.9

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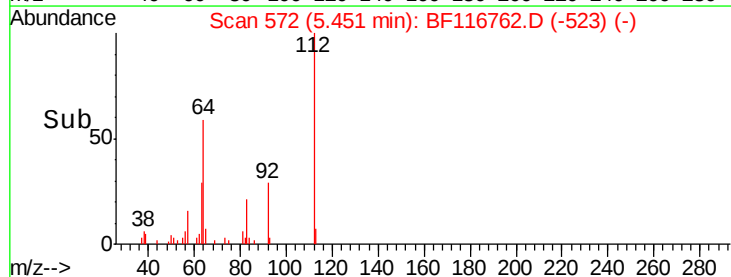
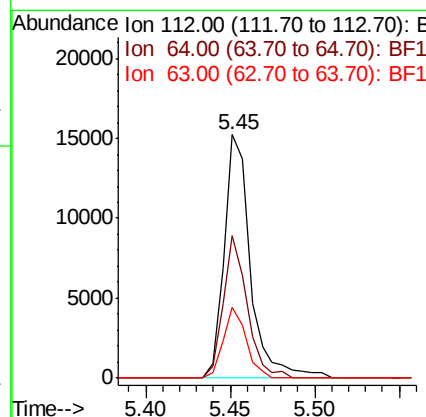
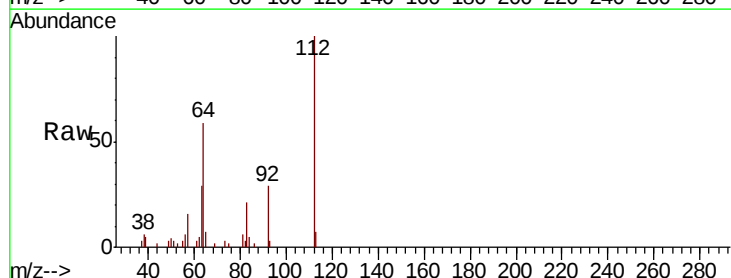
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#5

2-Fluorophenol
Concen: 3.208 ng
RT: 5.45 min Scan# 572
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	47.1	70.7
63	29.1	24.9	37.3





#7

Phenol-d6

Concen: 3.529 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

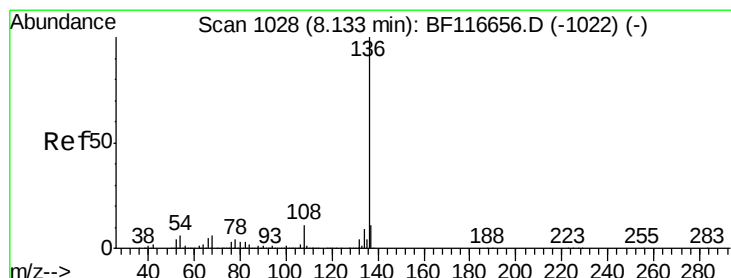
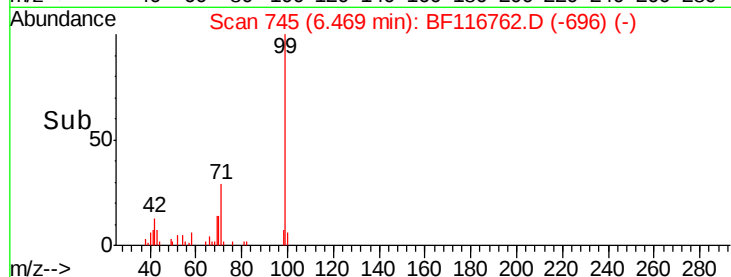
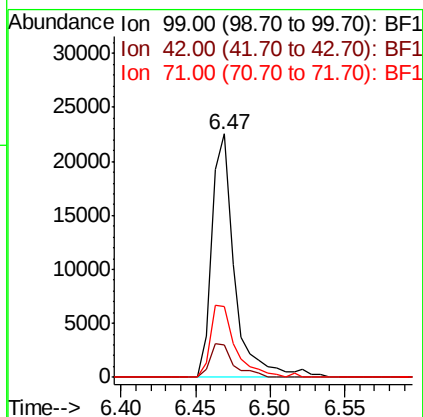
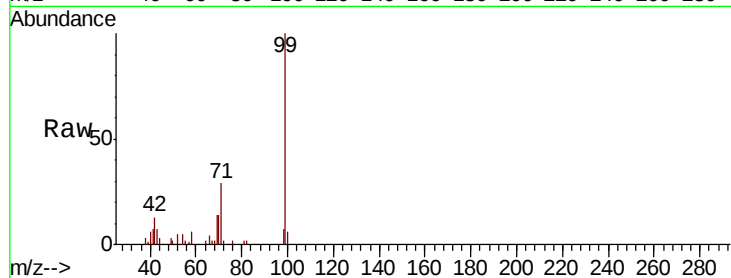
ClientSampleId :

SB-4-14-16DL2

Tot Ion:	99	Resp:	23849
Ion Ratio	Lower	Upper	
99	100		
42	13.3	13.7	20.5#
71	29.3	30.8	46.2#

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#21

Naphthalene-d8

Concen: 20.000 ng

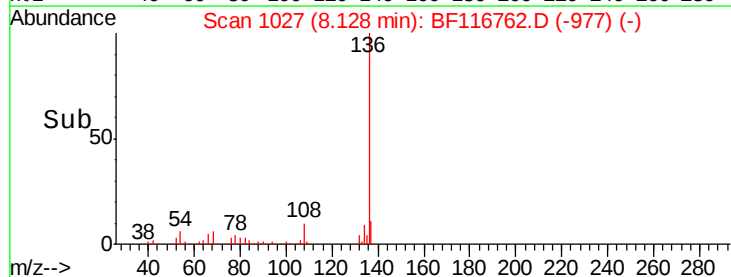
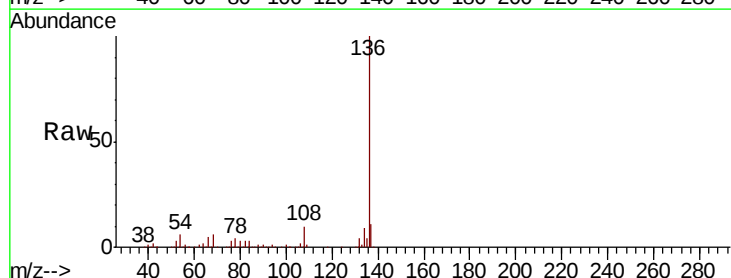
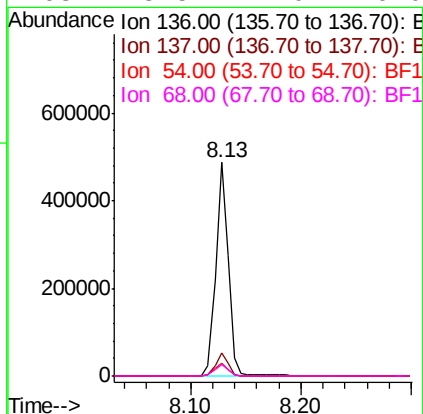
RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Tgt Ion:	136	Resp:	380434
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	6.0	4.8	7.2
68	5.5	4.0	6.0





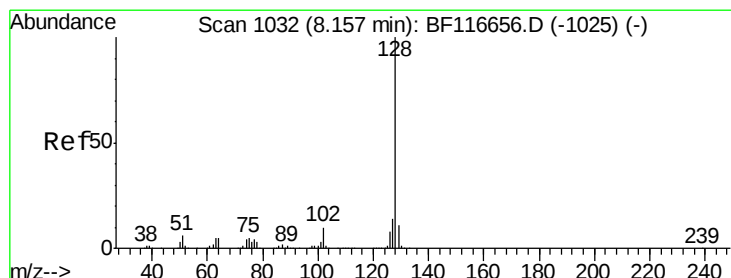
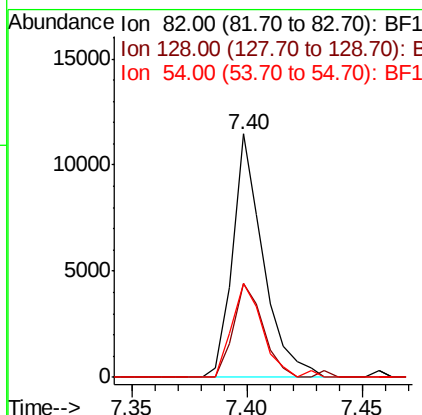
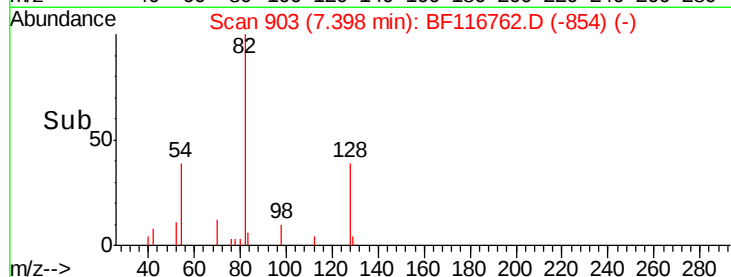
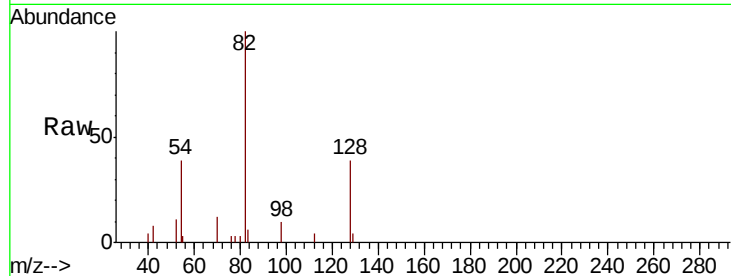
#23
 Nitrobenzene-d5
 Concen: 1.586 ng
 RT: 7.40 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-14-16DL2

Tot Ion:	82	Resp:	10571
Ion Ratio	Lower	Upper	
82	100		
128	38.7	32.8	49.2
54	38.6	36.9	55.3

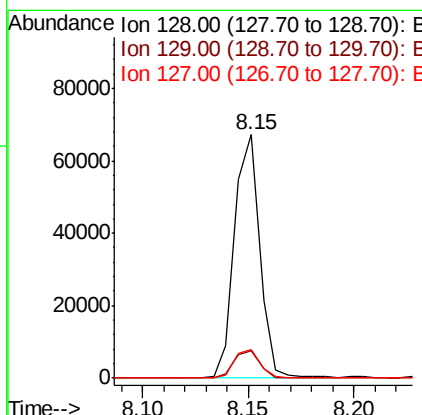
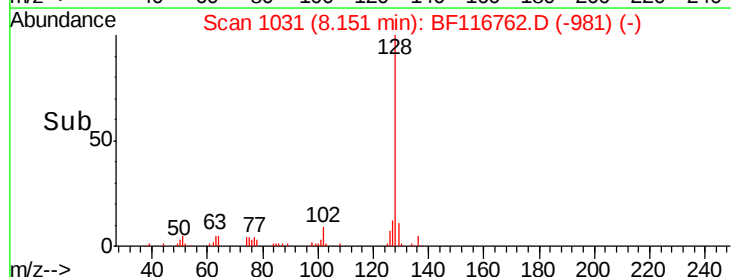
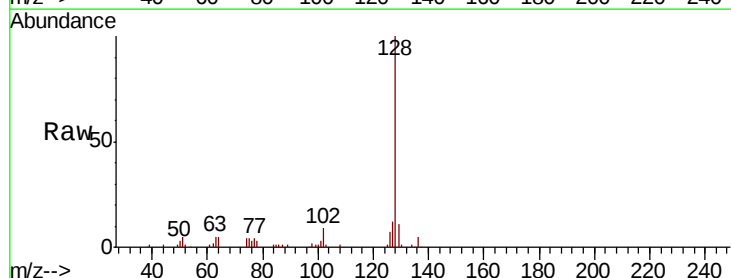
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#31
 Naphthalene
 Concen: 3.069 ng
 RT: 8.15 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

Tgt Ion:	128	Resp:	55523
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.6	13.0
127	11.8	10.4	15.6





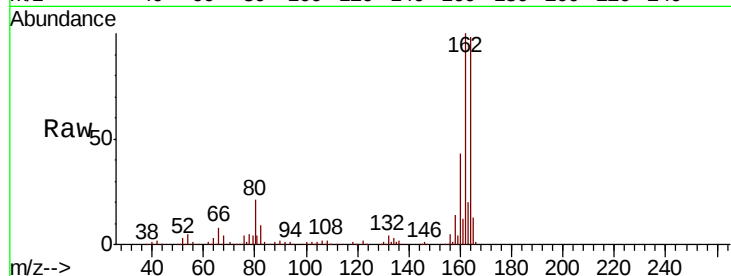
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL2

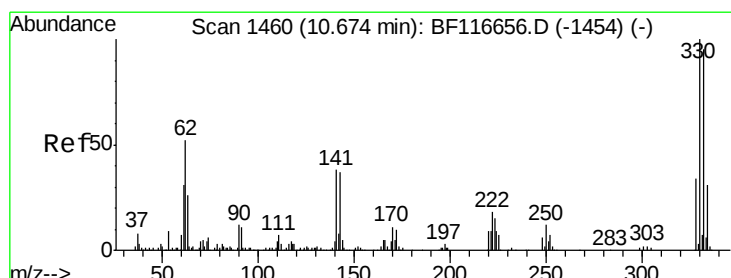
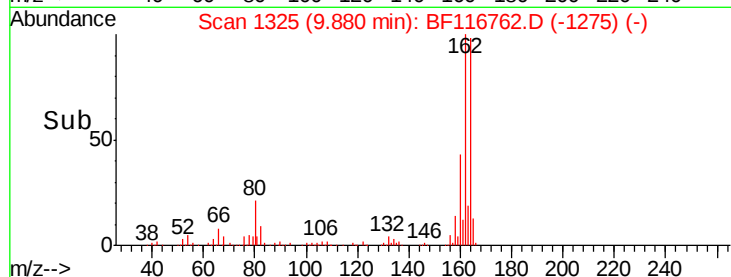
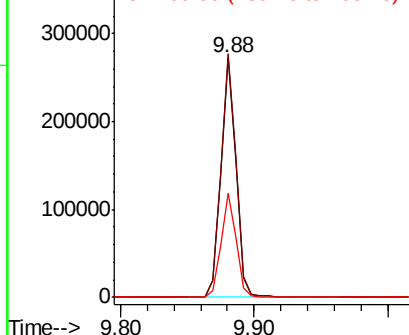
Tot Ion	Ratio	Resp	Lower	Upper
164	100	217656		
162	101.7	81.4	122.0	
160	43.5	35.4	53.2	

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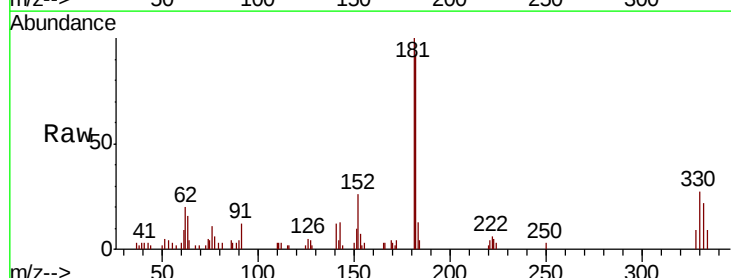


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

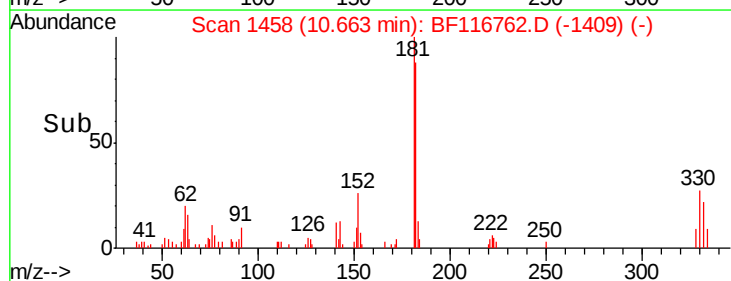
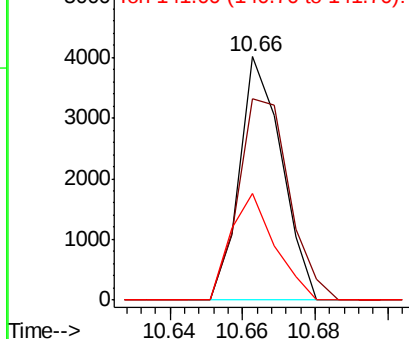


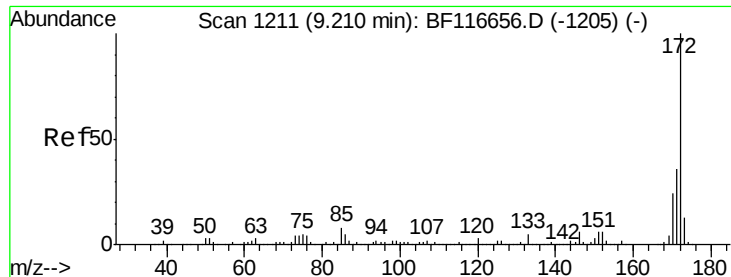
#42
2,4,6-Tribromophenol
Concen: 2.232 ng
RT: 10.66 min Scan# 1458
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	3248		
332	99.3	76.9	115.3	
141	45.7	31.4	47.2	



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





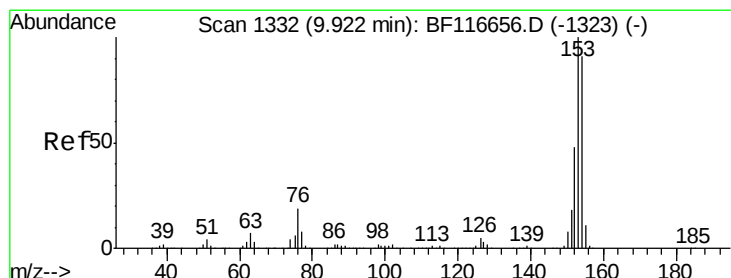
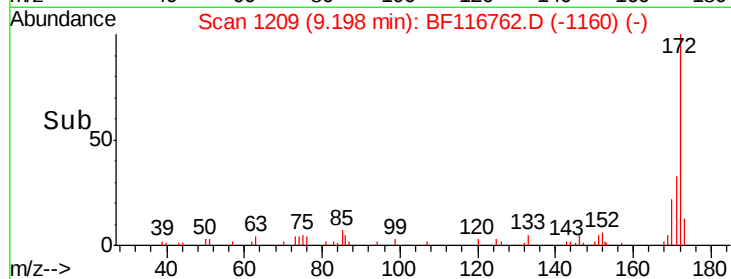
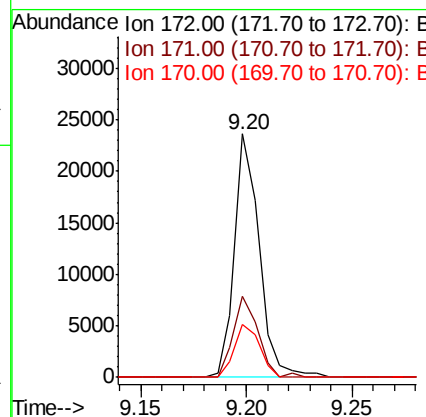
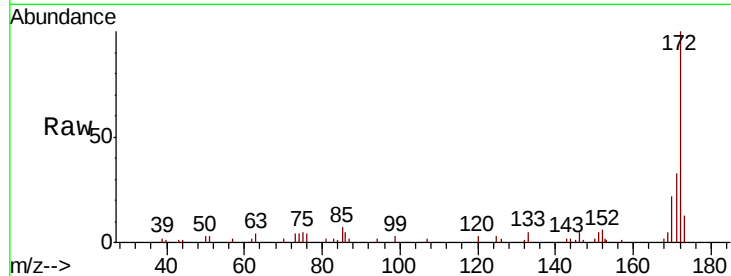
#45
2-Fluorobiphenyl
Concen: 1.475 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL2

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.2	27.8	41.6
170	21.5	18.9	28.3

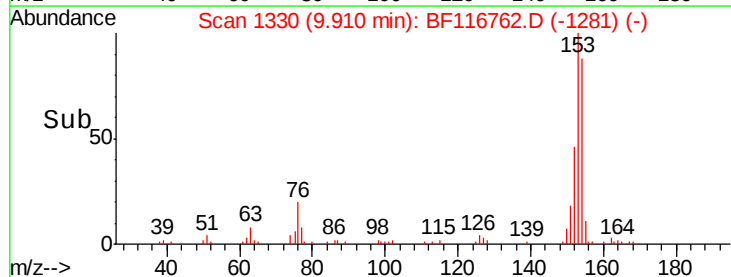
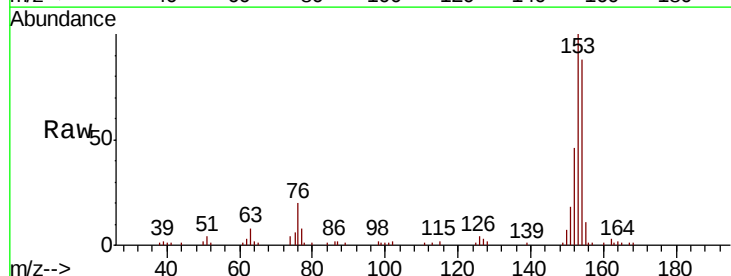
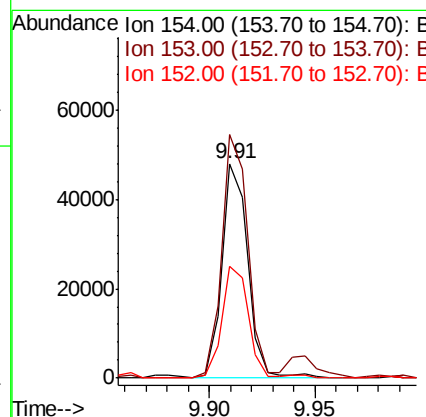
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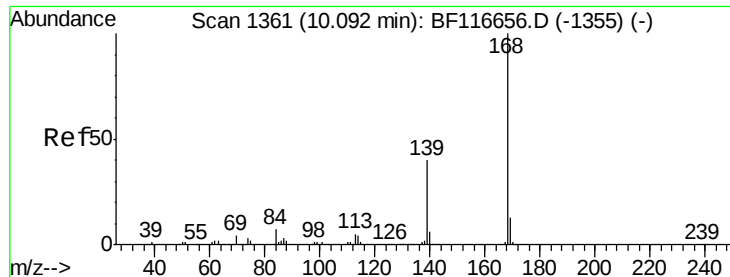
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#52
Acenaphthene
Concen: 3.356 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.5	89.5	134.3
152	52.2	41.9	62.9





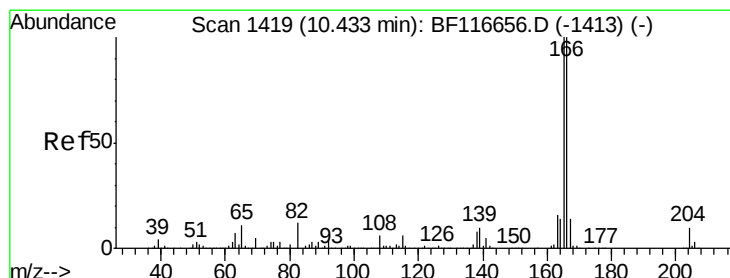
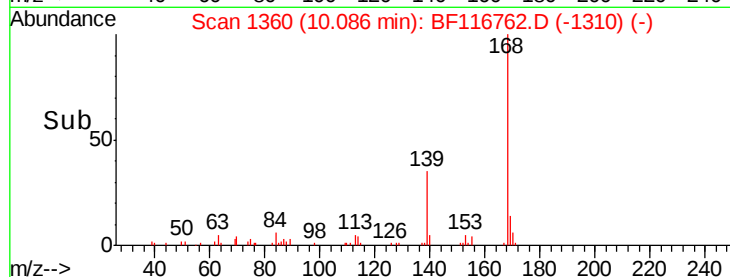
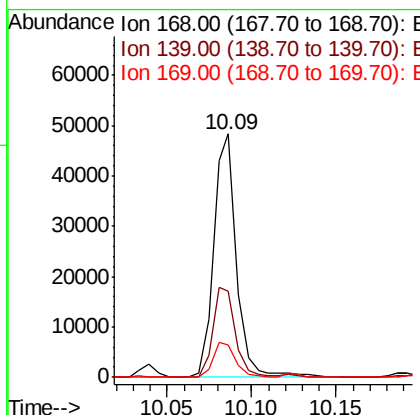
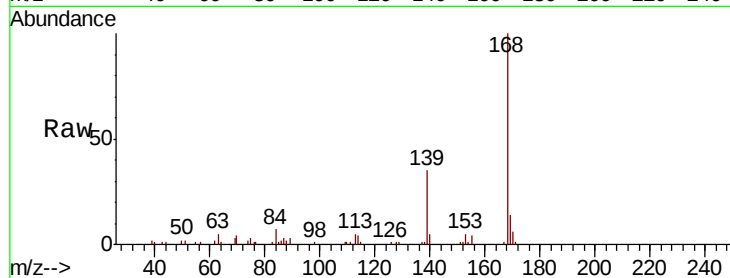
#55
Dibenzenofuran
Concen: 2.661 ng
RT: 10.09 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL2

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.4	31.5	47.3
169	13.5	10.3	15.5

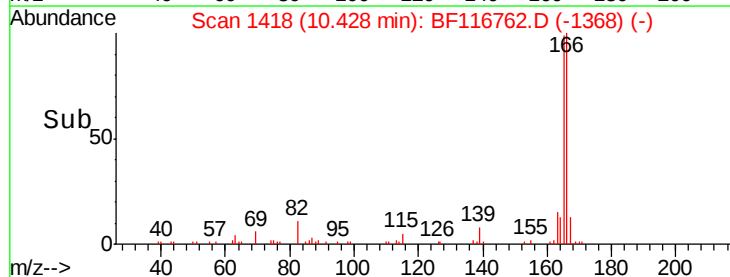
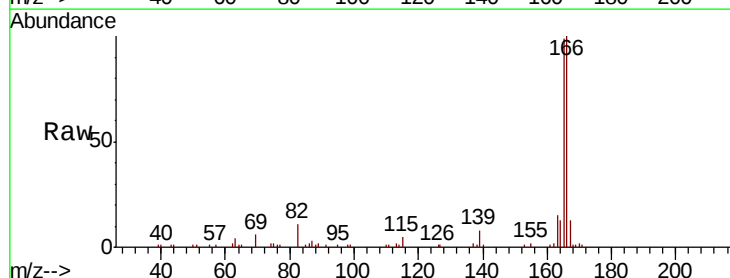
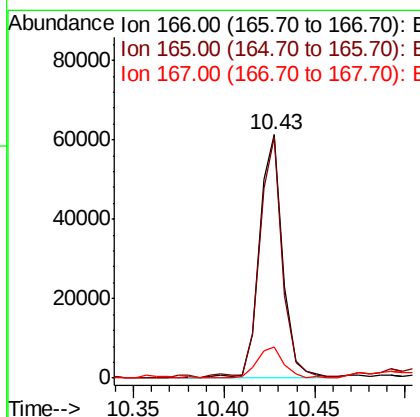
Manual Integrations
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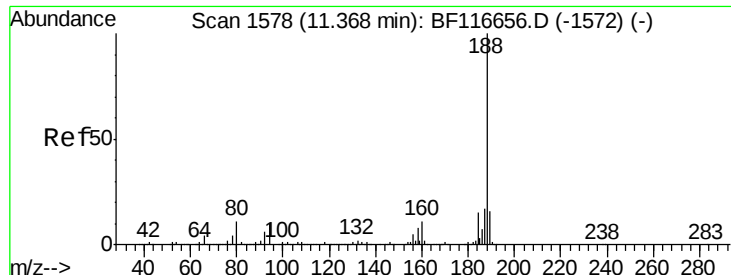
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#58
Fluorene
Concen: 4.199 ng
RT: 10.43 min Scan# 1418
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.8	118.2
167	12.9	10.0	15.0





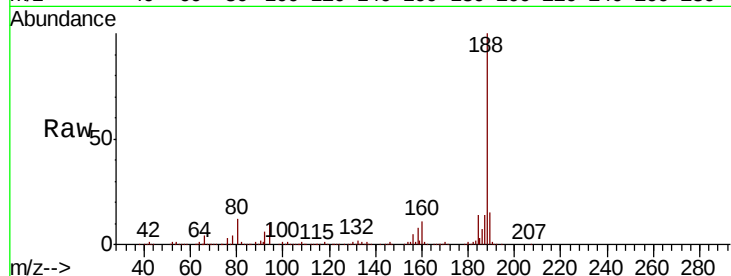
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL2

Tot Ion	Ratio	Resp	Lower	Upper
188	100	376444		
94	10.5		7.3	10.9
80	12.1		8.4	12.6

Manual Integrations
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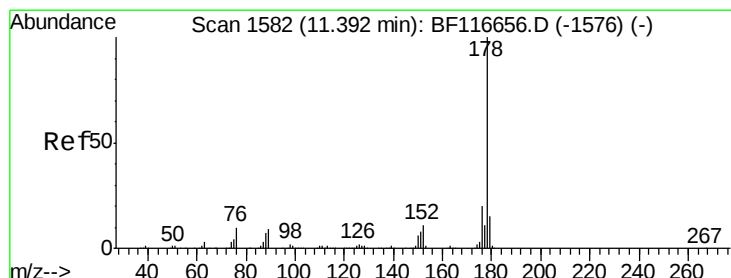
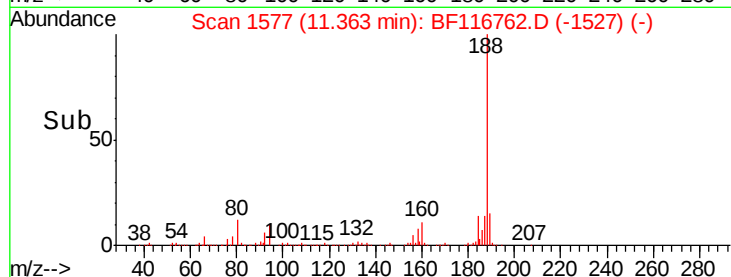
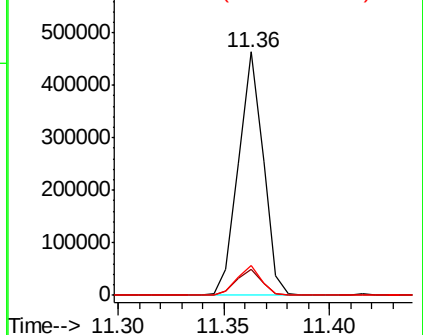


Abundance

Ion 188.00 (187.70 to 188.70): E

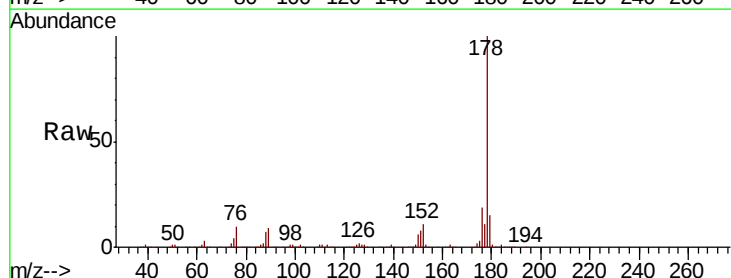
Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71
Phenanthrene
Concen: 23.325 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	488784		
176	18.7		15.4	23.0
179	14.7		12.2	18.2

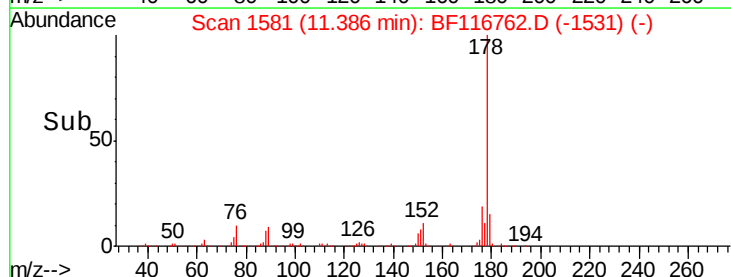
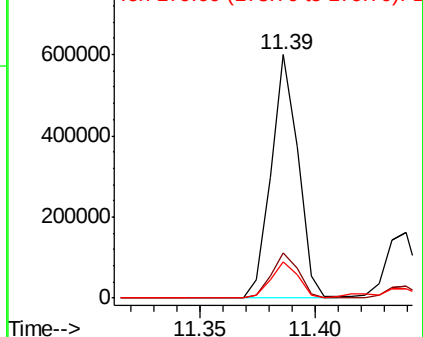


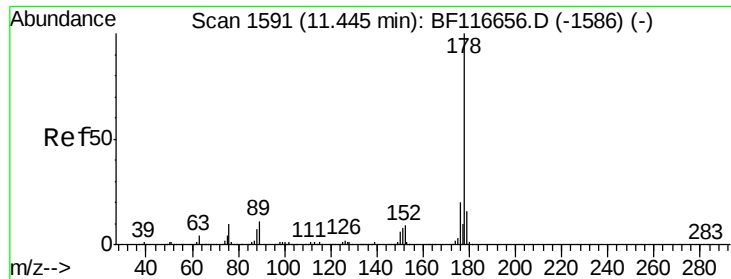
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 6.654 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

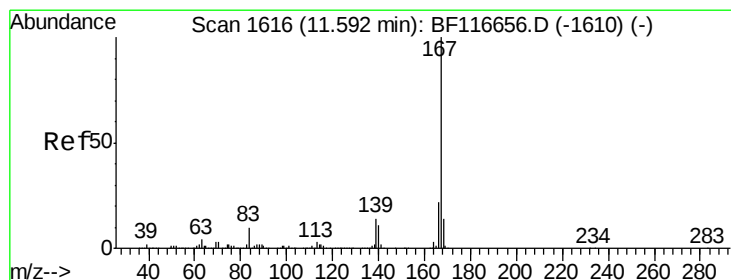
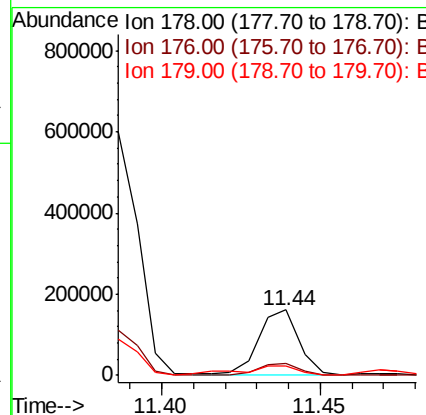
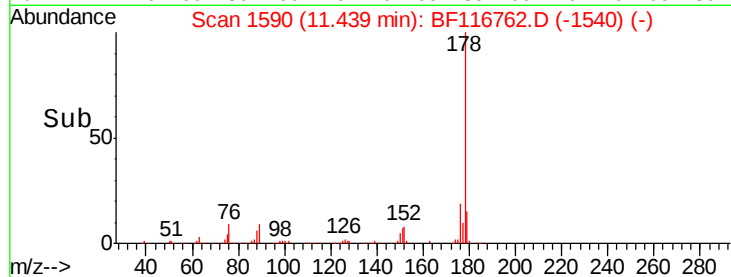
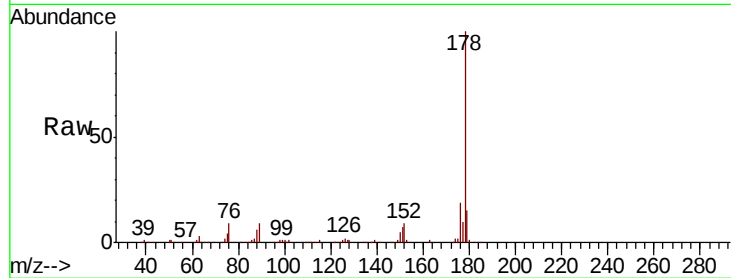
ClientSampleId :

SB-4-14-16DL2

Tot Ion:	178	Resp:	140362
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.4	23.0
179	15.3	12.5	18.7

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#73

Carbazole

Concen: 2.342 ng

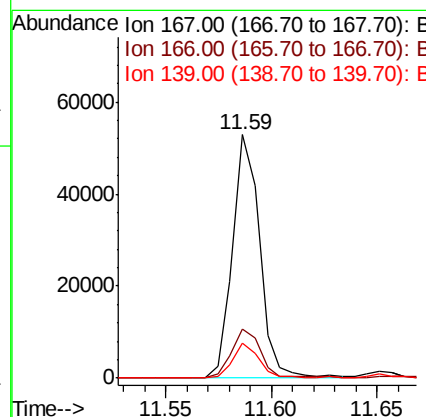
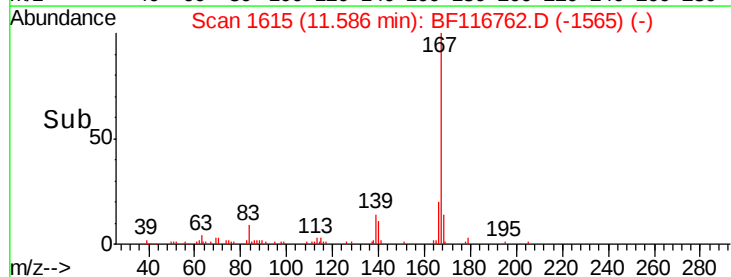
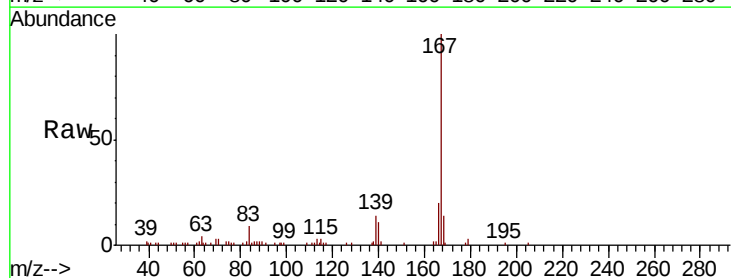
RT: 11.59 min Scan# 1615

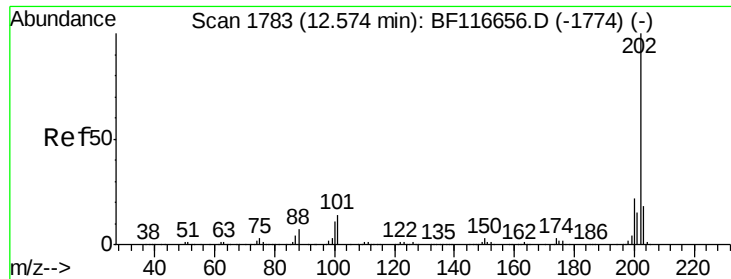
Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Tgt Ion:	167	Resp:	47051
Ion Ratio	Lower	Upper	
167	100		
166	20.3	17.8	26.6
139	14.4	11.1	16.7





#75

Fluoranthene

Concen: 19.041 ng

RT: 12.57 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

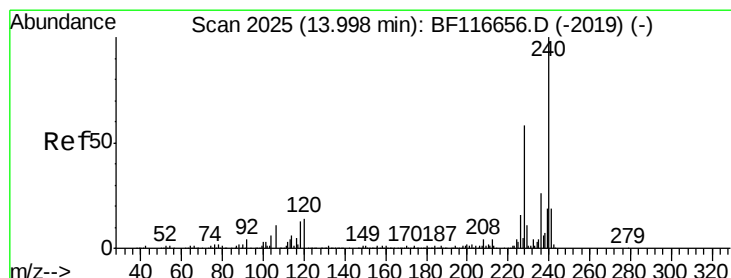
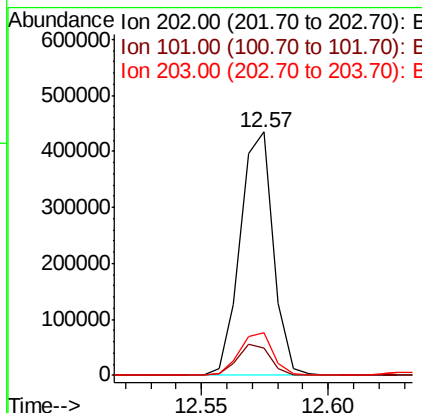
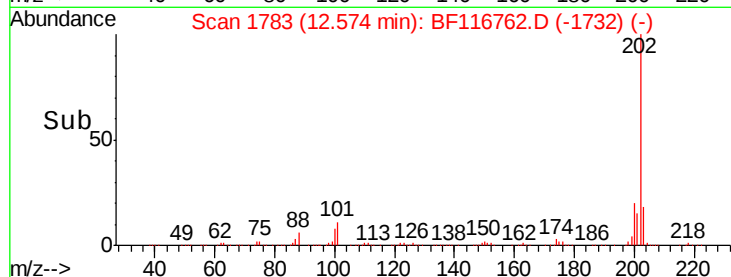
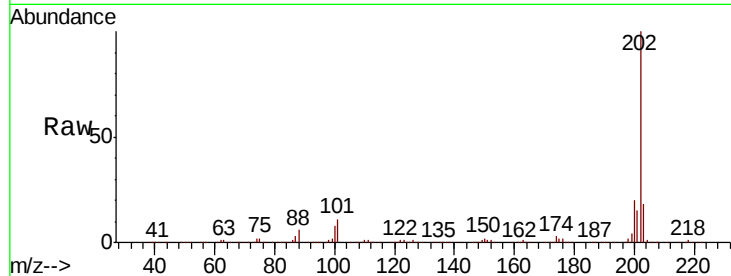
ClientSampleId :

SB-4-14-16DL2

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.4	0.0	31.3
203	17.6	0.0	37.6

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#76

Chrysene-d12

Concen: 20.000 ng

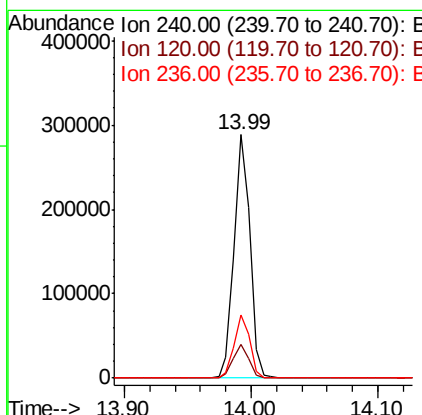
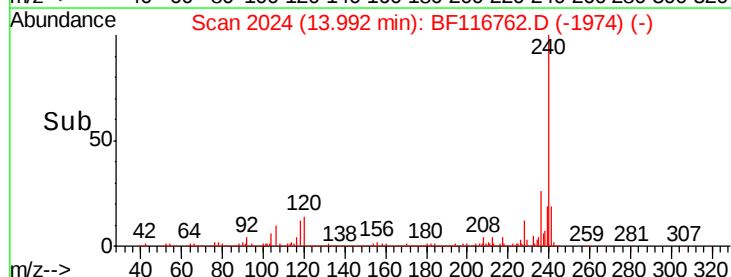
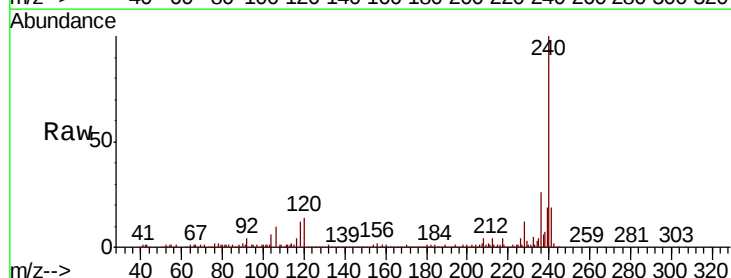
RT: 13.99 min Scan# 2024

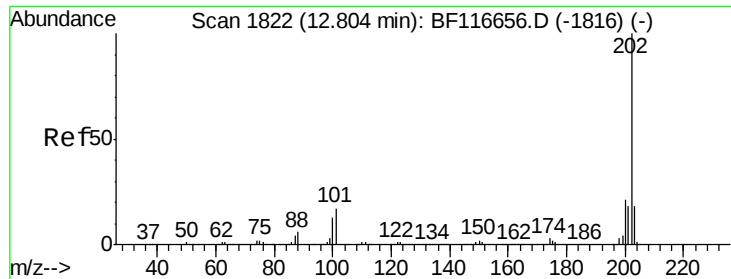
Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.9	9.1	13.7#
236	26.1	21.1	31.7





#78

Pvrene

Concen: 15.929 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

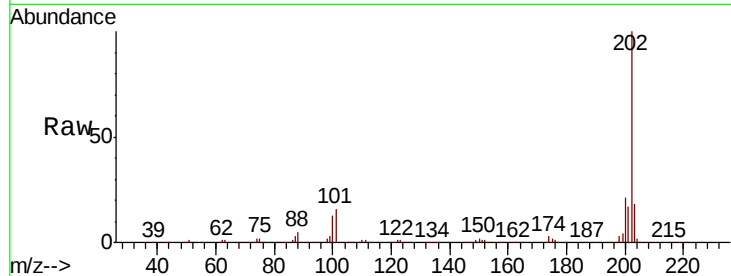
ClientSampleId :

SB-4-14-16DL2

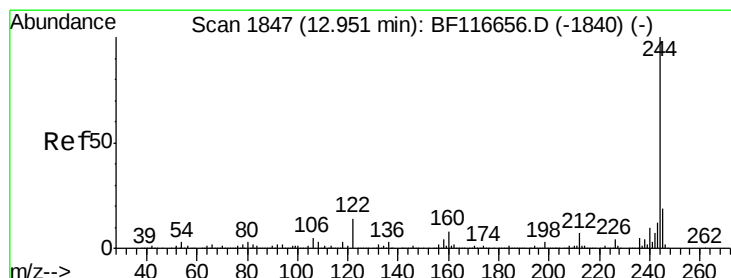
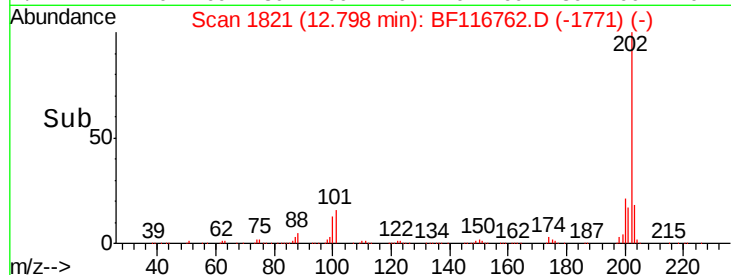
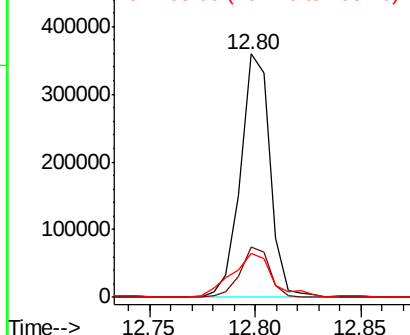
Tot Ion:	202	Resp:	349929
Ion Ratio	Lower	Upper	
202	100		
200	20.7	16.5	24.7
203	18.3	13.7	20.5

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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



#79

Terphenyl-d14

Concen: 1.510 ng

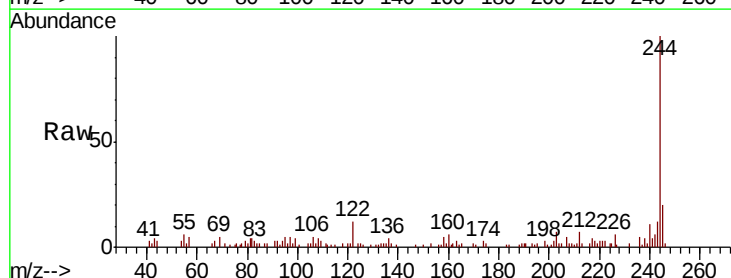
RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

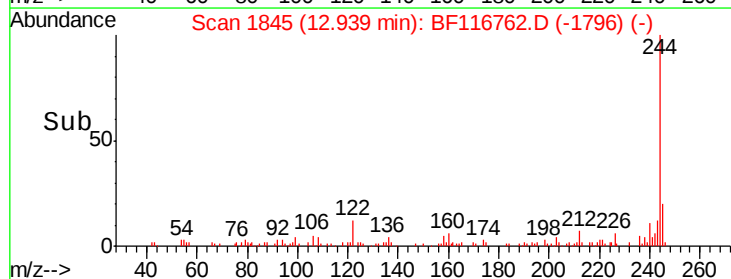
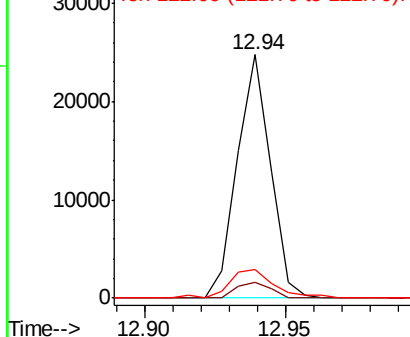
Lab File: BF116762.D

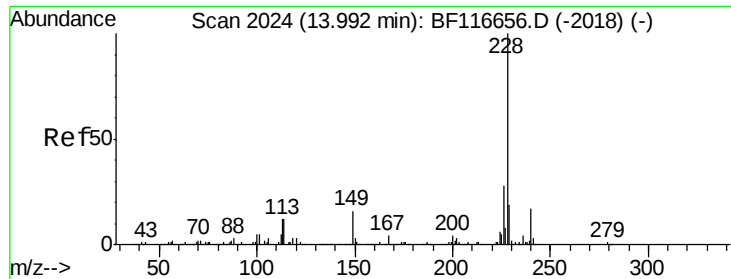
Acq: 2 Sep 2019 00:10

Tgt Ion:	244	Resp:	20176
Ion Ratio	Lower	Upper	
244	100		
212	6.5	6.1	9.1
122	12.0	10.2	15.4



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





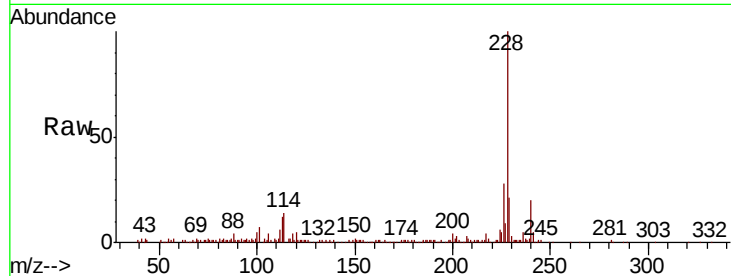
#81
Benzo(a)anthracene
Concen: 7.966 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL2

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.0	33.0
229	20.6	16.4	24.6

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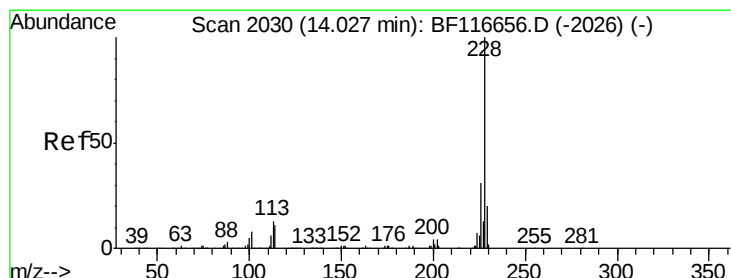
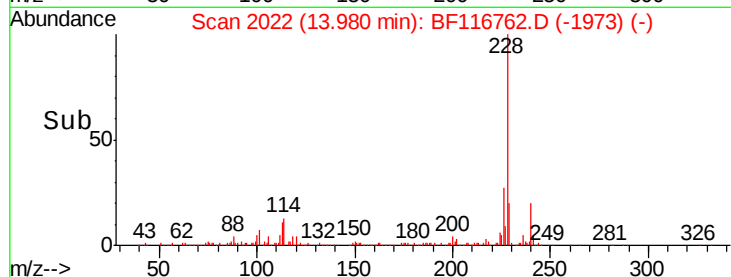
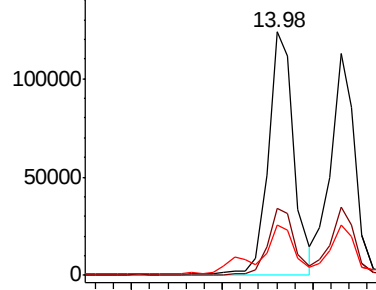


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 6.564 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

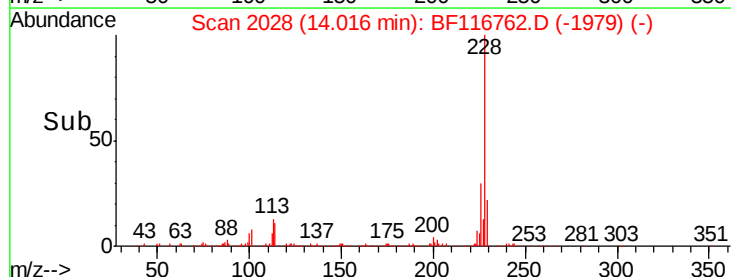
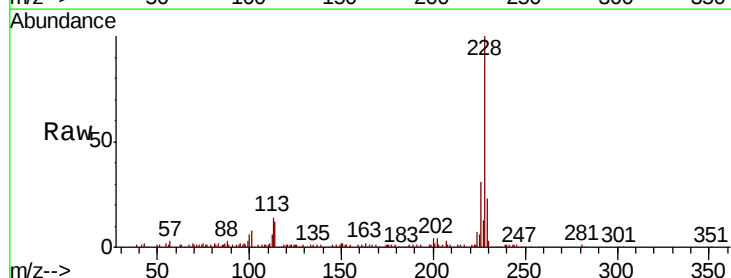
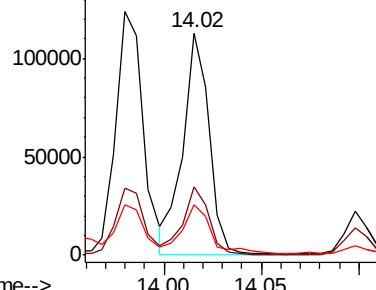
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.0	36.0
229	22.6	15.4	23.0

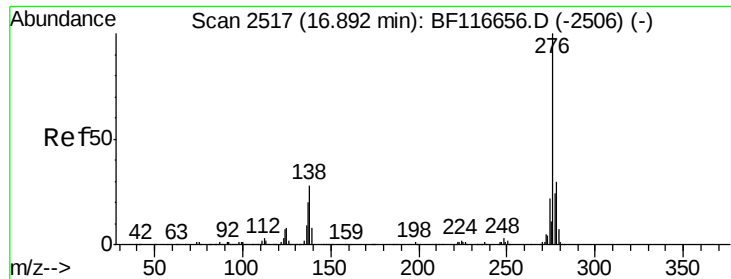
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





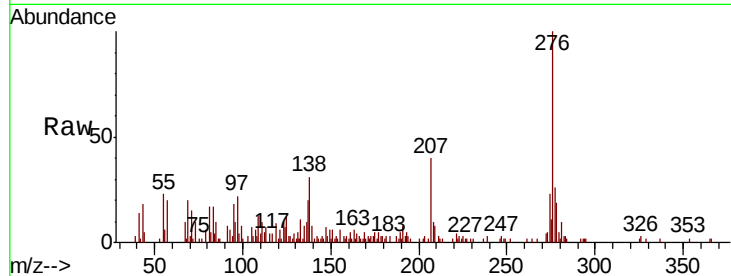
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.571 ng
 RT: 16.89 min Scan# 2516
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-14-16DL2

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.0	19.4	29.2
277	28.2	20.5	30.7

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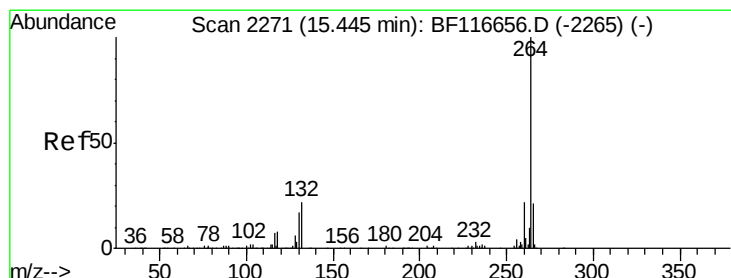
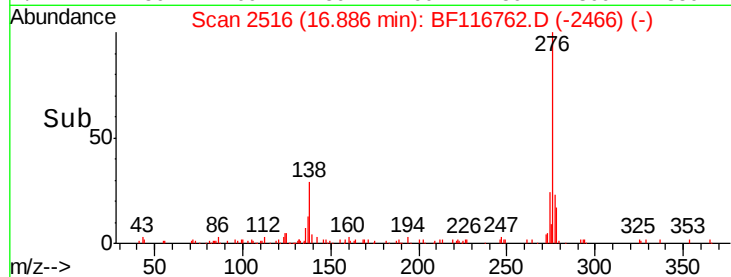
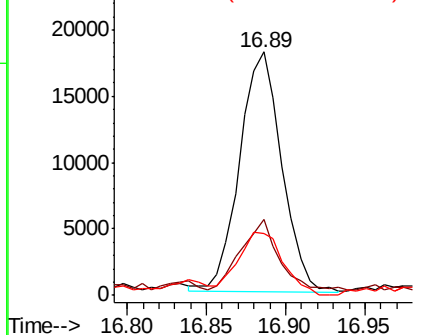


Abundance

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: 15.44 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

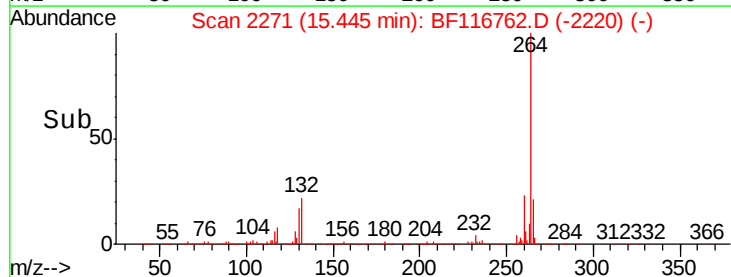
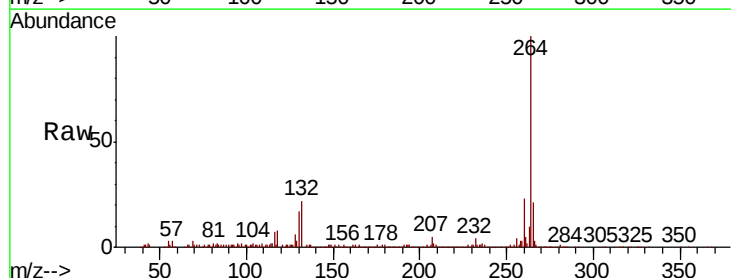
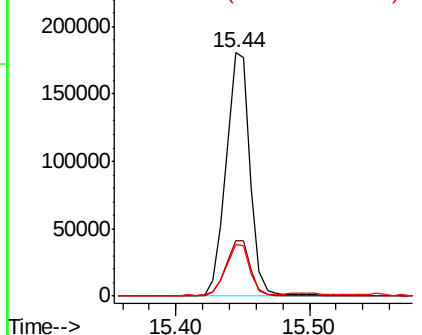
Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.3	27.5
265	21.2	16.5	24.7

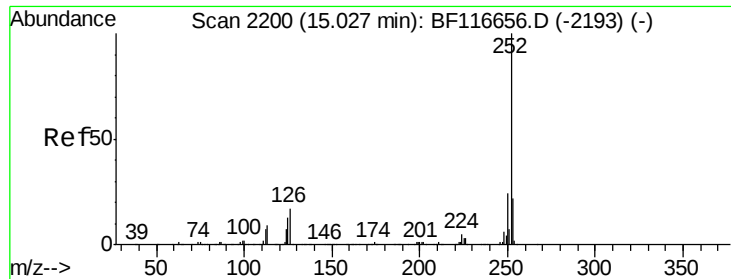
Abundance

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





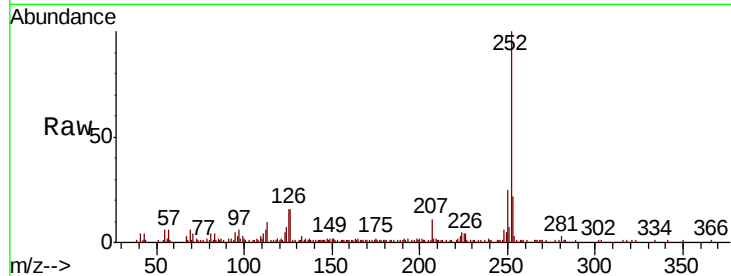
#88
Benzo(b)fluoranthene
Concen: 7.252 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.00 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	16.0	8.2	12.2

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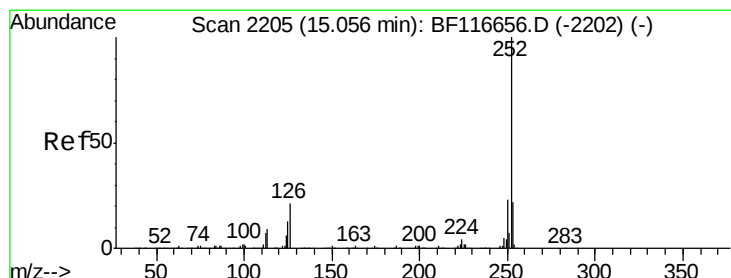
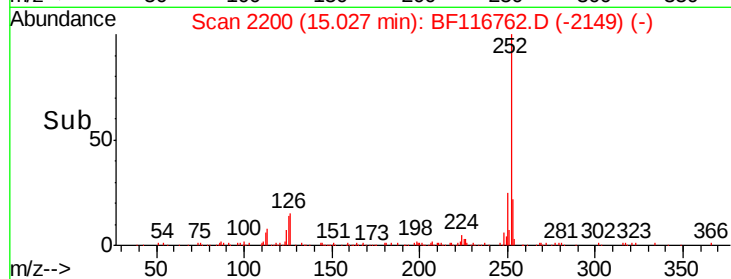
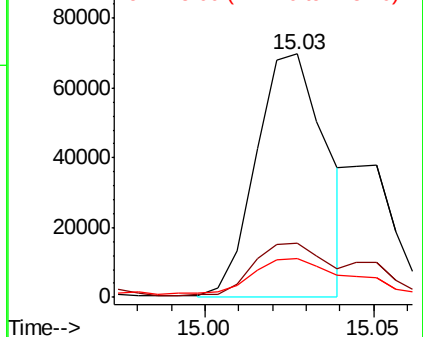


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 2.887 ng m
RT: 15.05 min Scan# 2204
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

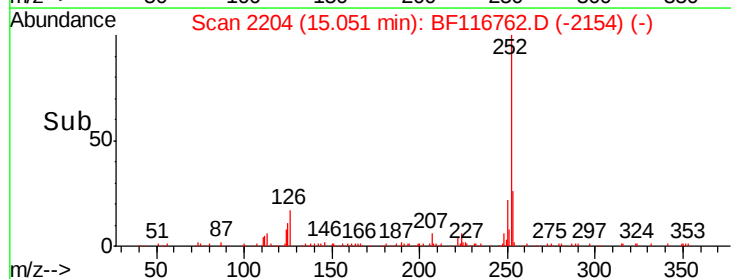
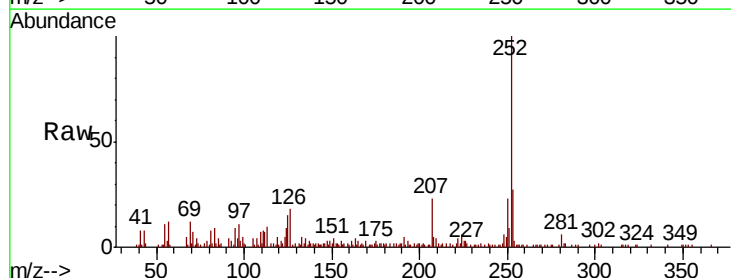
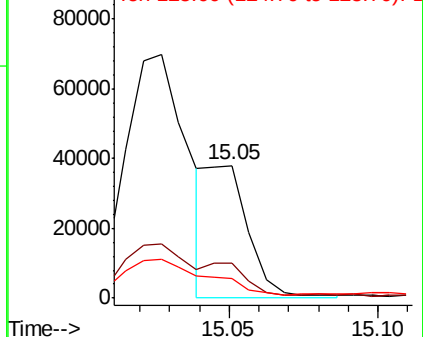
Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.8	17.7	26.5
125	14.9	8.6	13.0

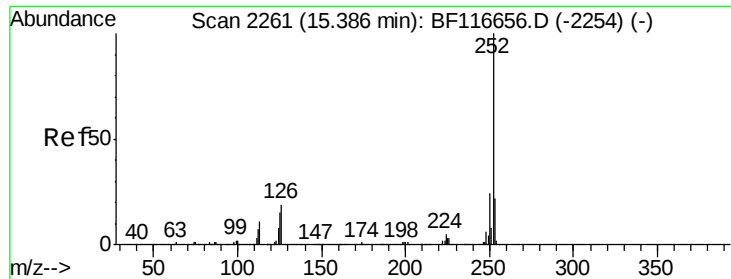
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





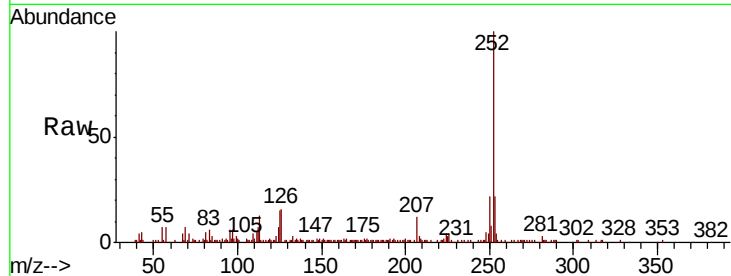
#90
Benzo(a)pyrene
Concen: 6.461 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.1	27.1
125	14.7	9.8	14.8

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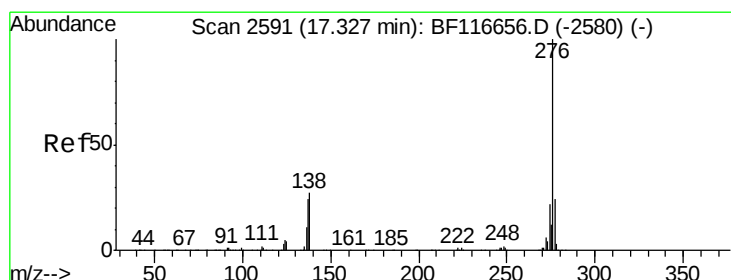
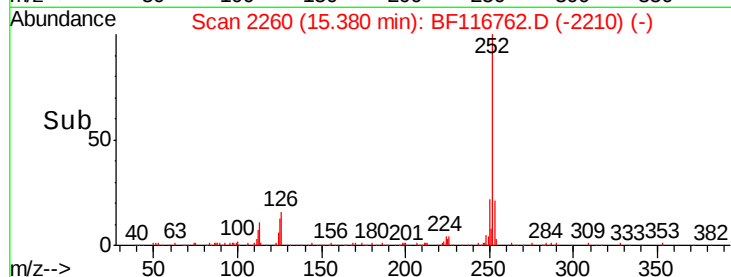
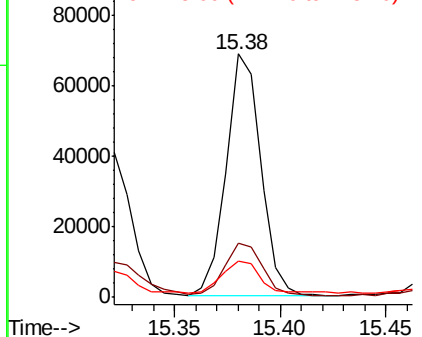


Abundance

Ion 252.00 (251.70 to 252.70): E

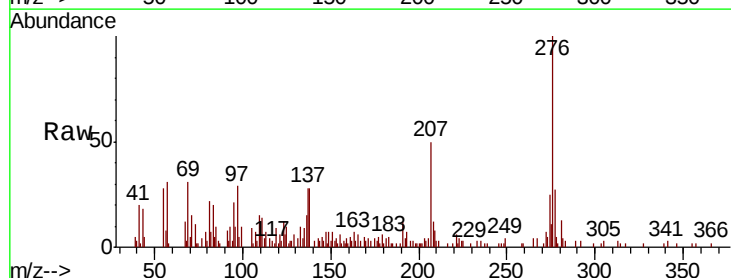
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.132 ng
RT: 17.32 min Scan# 2590
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.7	18.5	27.7
138	27.8	16.2	24.2



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

