

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012020\
 Data File : BF118626.D
 Acq On : 21 Jan 2020 8:59
 Operator : CG/JU
 Sample : L1148-15 20X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-36-(7-9)

Manual Integrations
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 1/21/2020 2:26:57 PM

Quant Time: Jan 21 10:08:31 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 20 14:45:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	355023	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	1277560	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	650607	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	960393	20.00	ng	0.00
76) Chrysene-d12	14.05	240	753608	20.00	ng	0.00
87) Perylene-d12	15.53	264	869634	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	110660	5.79	ng	0.00
7) Phenol-d6	6.50	99	148186	5.96	ng	-0.01
23) Nitrobenzene-d5	7.43	82	77289	3.38	ng	-0.01
42) 2,4,6-Tribromophenol	10.70	330	30459	4.05	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	172027	4.35	ng	0.00
79) Terphenyl-d14	12.99	244	147636	4.27	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.19	128	210162	3.642	ng	95
38) 1-Methylnaphthalene	8.98	142	85040	2.197	ng	99
49) Acenaphthylene	9.78	152	178329	3.354	ng	94
52) Acenaphthene	9.96	154	446670	12.564	ng	99
55) Dibenzofuran	10.13	168	328276	6.663	ng	93
58) Fluorene	10.47	166	515823	13.336	ng	99
71) Phenanthrene	11.43	178	2729909	58.919	ng	97
72) Anthracene	11.49	178	1189364	25.942	ng	94
73) Carbazole	11.63	167	241346	5.739	ng	94
75) Fluoranthene	12.63	202	3826215	78.296	ng	99
78) Pyrene	12.86	202	3619809	70.750	ng	99
81) Benzo(a)anthracene	14.04	228	2027588	44.726	ng	96
83) Chrysene	14.08	228	1719039	39.566	ng	97
86) Indeno(1,2,3-cd)pyrene	17.02	276	883143	23.393	ng	98
88) Benzo(b)fluoranthene	15.10	252	2477805m	45.329	ng	
89) Benzo(k)fluoranthene	15.13	252	590004m	11.650	ng	
90) Benzo(a)pyrene	15.47	252	1807676	38.336	ng	99
91) Dibenzo(a,h)anthracene	17.03	278	227131	5.445	ng	# 82
92) Benzo(a,h,i)perylene	17.47	276	812243	20.056	ng	94

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

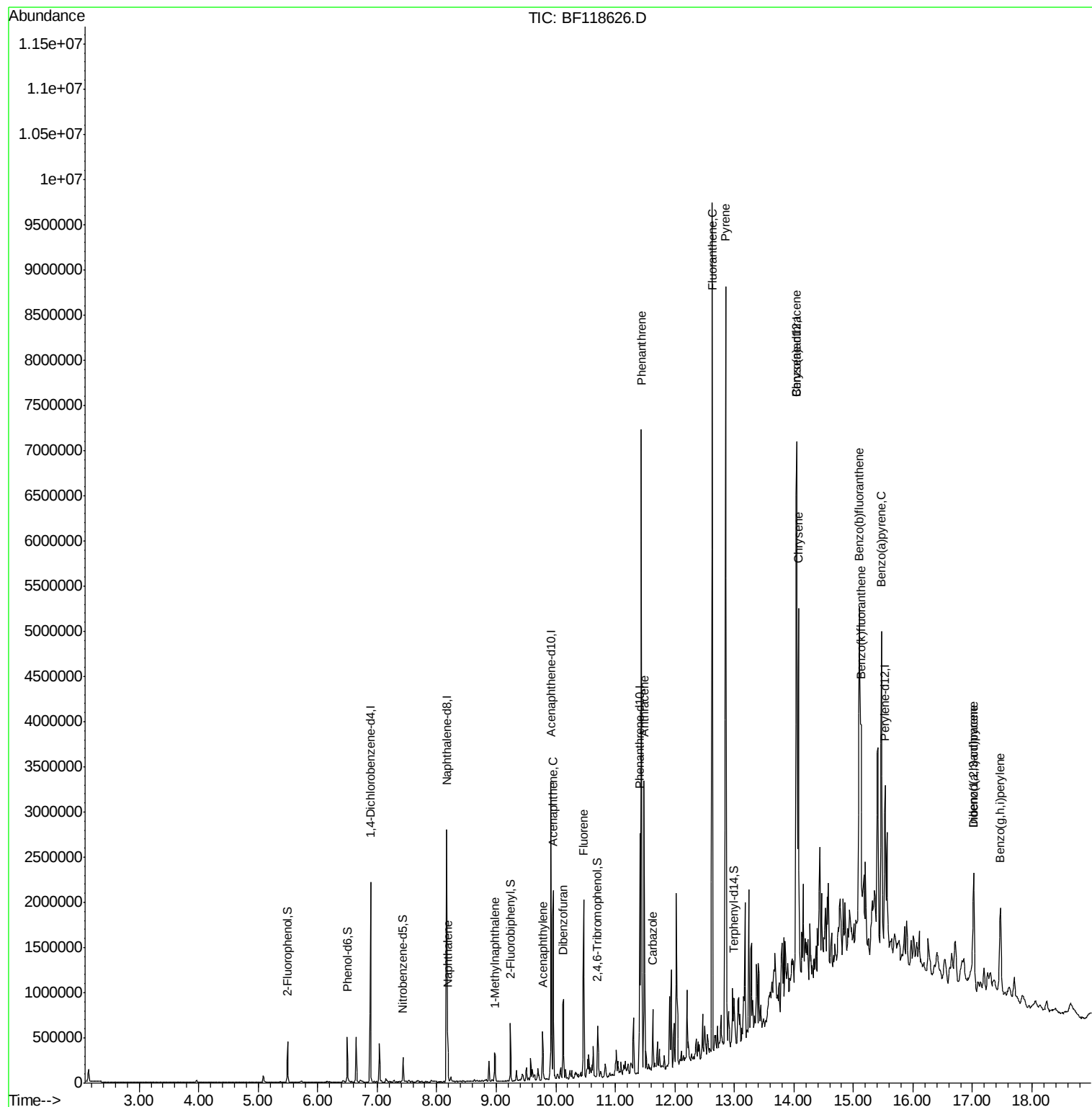
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012020\
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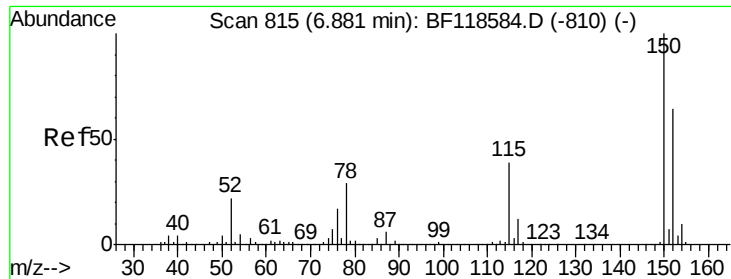
Instrument :
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ClientSampleId :
SB-36-(7-9)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 20 14:45:03 2020
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#1

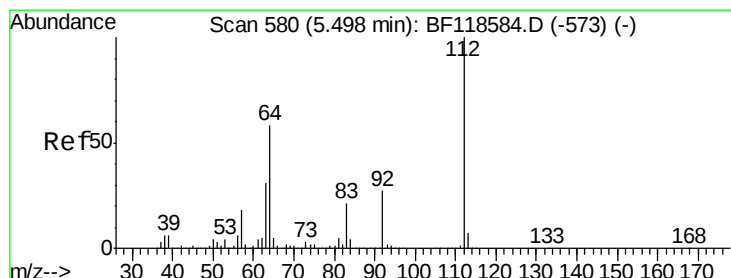
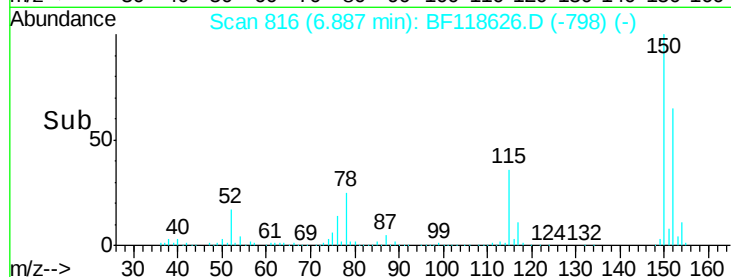
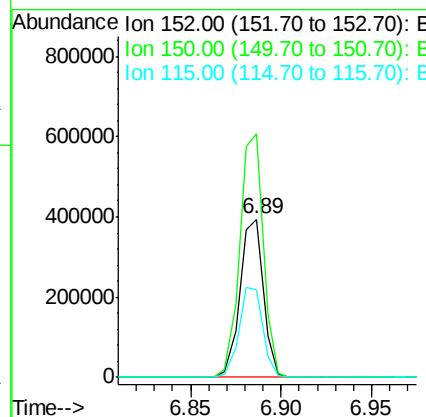
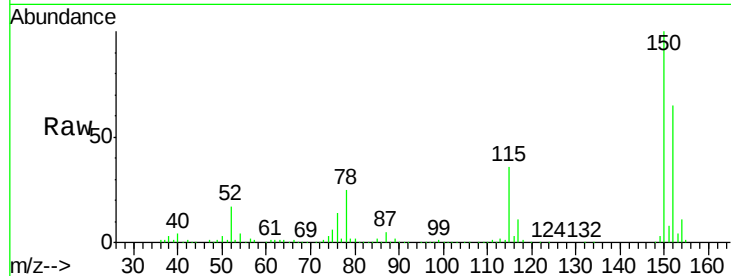
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. 0.01 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Instrument :
BNA_F
ClientSampleId :
SB-36-(7-9)

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	125.6	188.4
115	55.4	48.4	72.6

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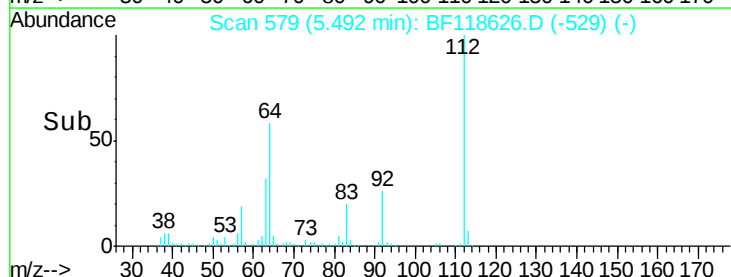
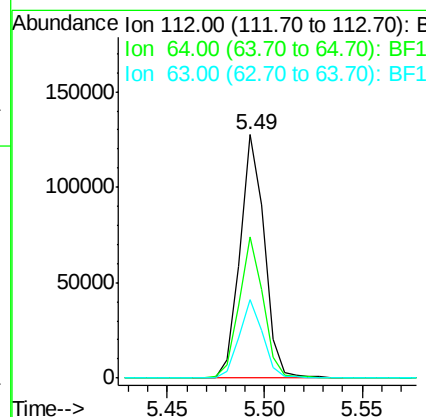
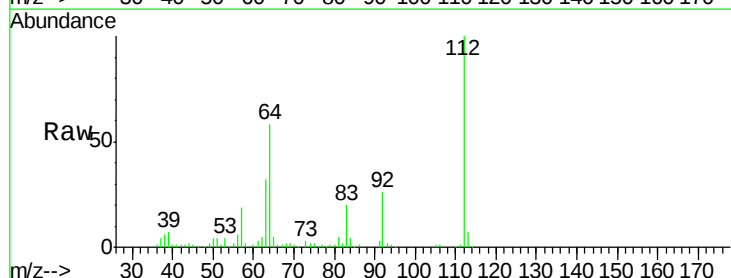
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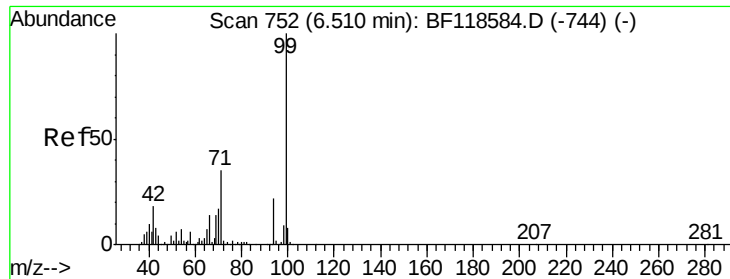


#5

2-Fluorophenol
Concen: 5.789 ng
RT: 5.49 min Scan# 579
Delta R.T. -0.01 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	46.6	70.0
63	32.1	25.1	37.7





#7

Phenol-d6

Concen: 5.964 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

Instrument :

BNA_F

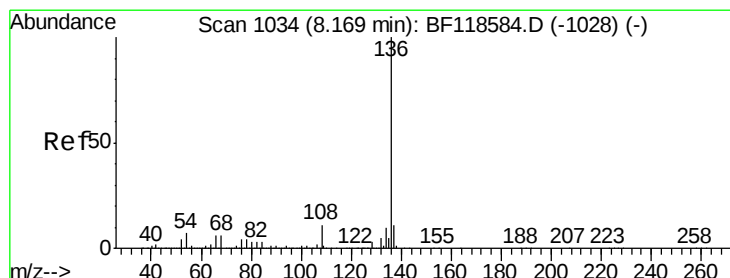
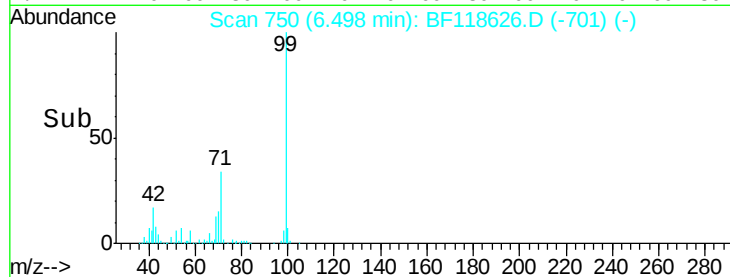
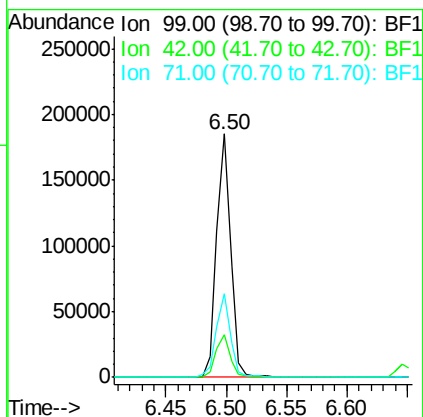
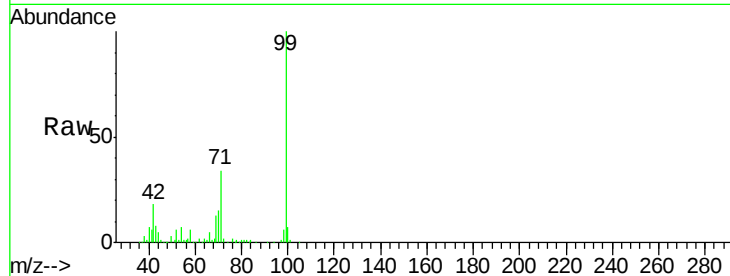
ClientSampleId :

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Tot Ion:	99	Resp:	148186
Ion Ratio	Lower	Upper	
99	100		
42	17.5	14.2	21.2
71	34.1	27.8	41.6

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#21

Naphthalene-d8

Concen: 20.000 ng

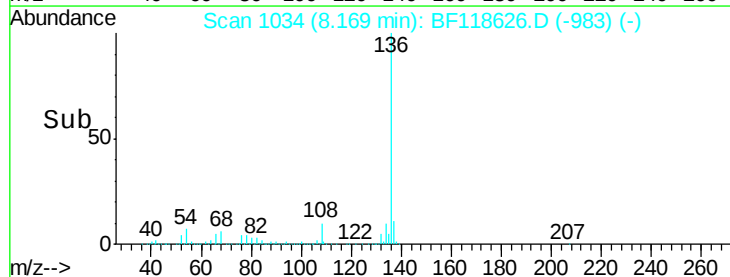
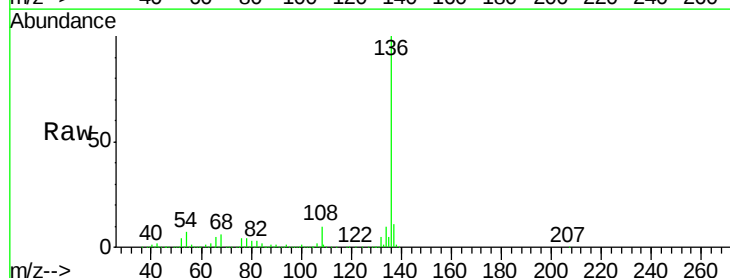
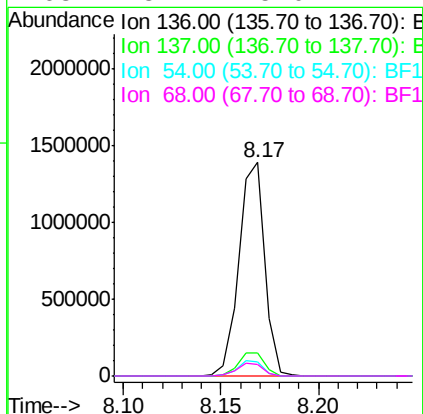
RT: 8.17 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

Tgt Ion:	136	Resp:	1277560
Ion Ratio	Lower	Upper	
136	100		
137	10.9	9.1	13.7
54	6.7	5.8	8.6
68	5.7	5.0	7.4





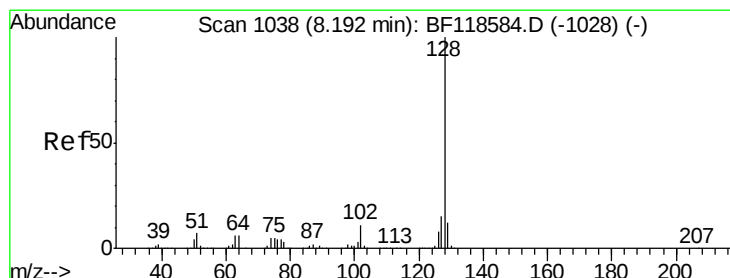
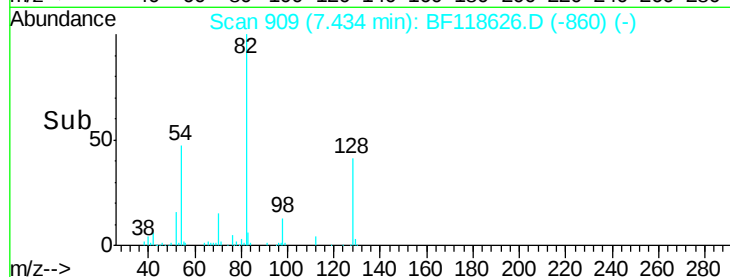
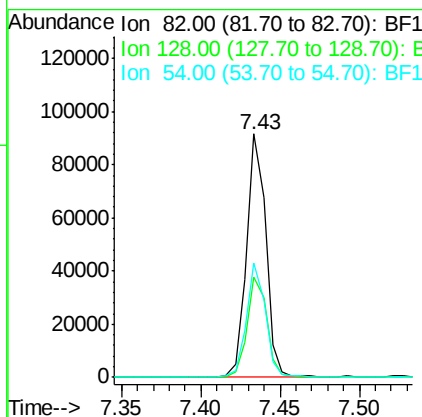
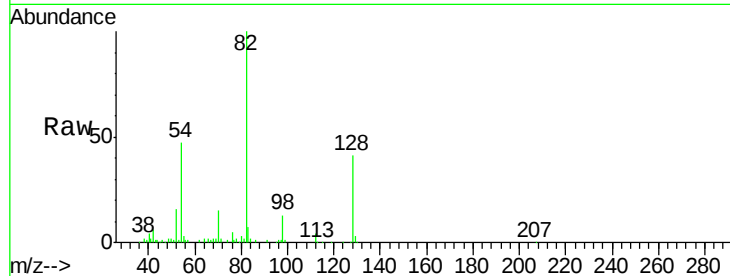
#23
Nitrobenzene-d5
Concen: 3.384 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Instrument :
BNA_F
ClientSampleId :
SB-36-(7-9)

Tot Ion:	82	Resp:	77289
Ion Ratio	Lower	Upper	
82	100		
128	41.3	36.6	54.8
54	46.8	38.0	57.0

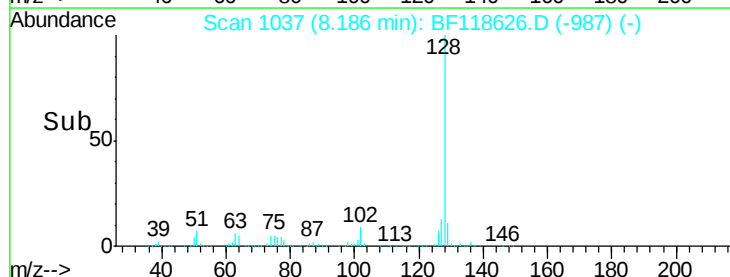
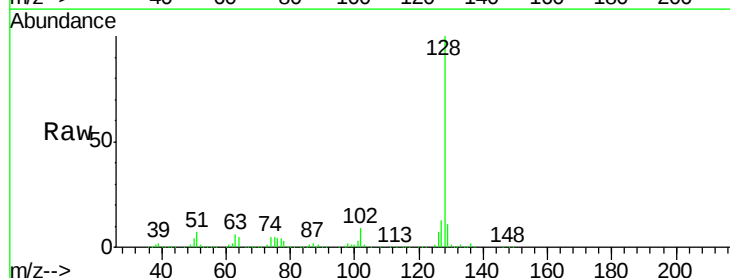
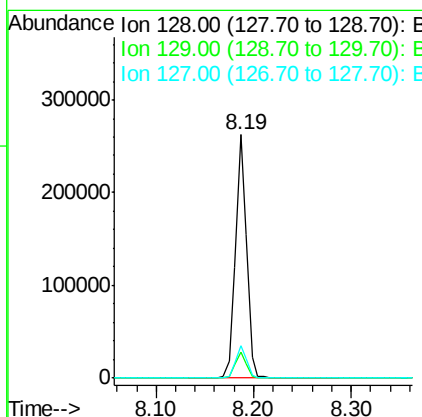
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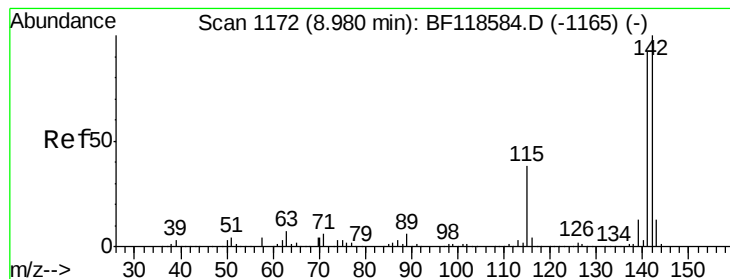
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#31
Naphthalene
Concen: 3.642 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Tgt Ion:	128	Resp:	210162
Ion Ratio	Lower	Upper	
128	100		
129	10.7	9.9	14.9
127	13.1	12.0	18.0





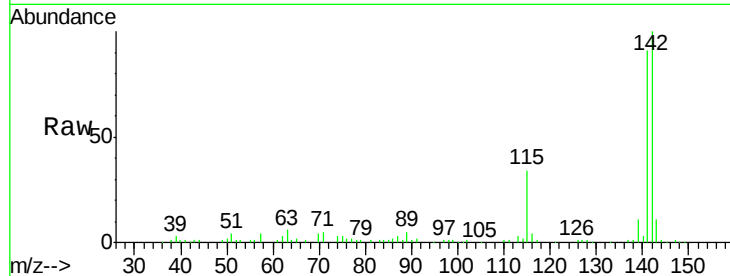
#38
1-Methylnaphthalene
Concen: 2.197 ng
RT: 8.98 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Instrument :
BNA_F
ClientSampleId :
SB-36-(7-9)

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.4	110.2
116	3.5	3.3	4.9

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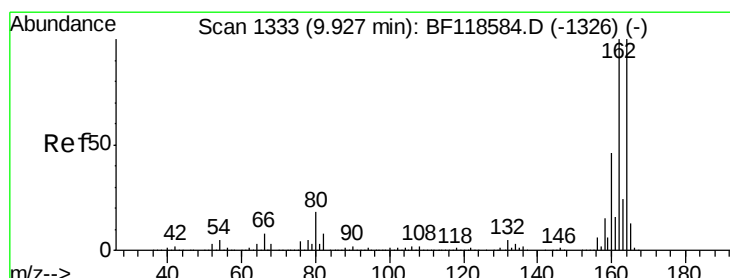
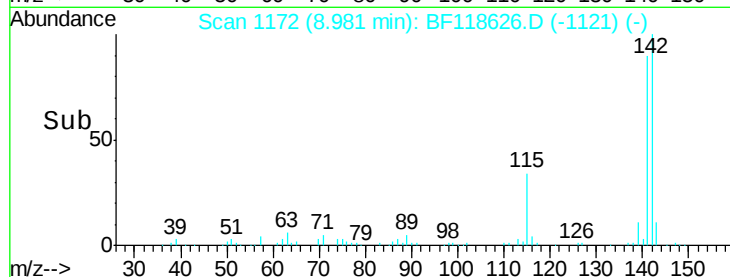
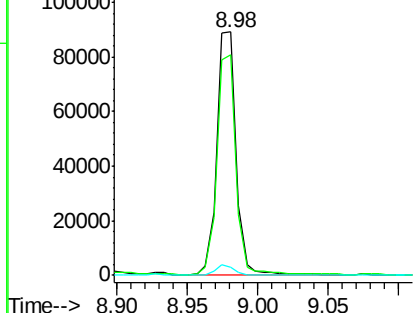


Abundance

Ion 142.00 (141.70 to 142.70): E

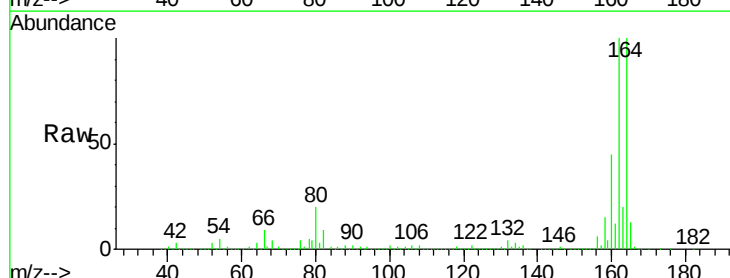
Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.8	80.4	120.6
160	45.2	36.6	55.0

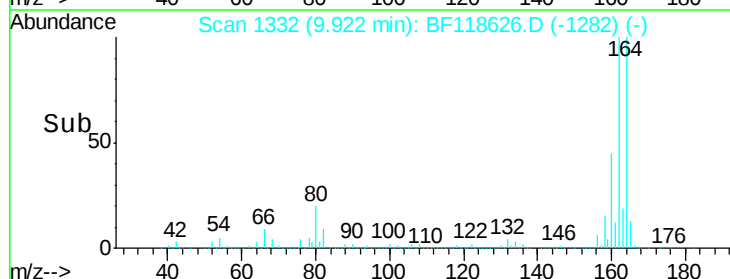
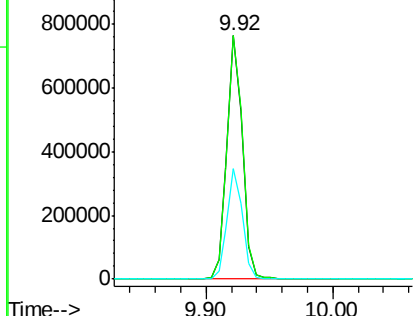


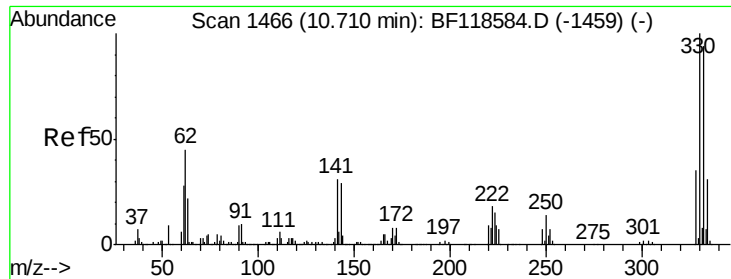
Abundance

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





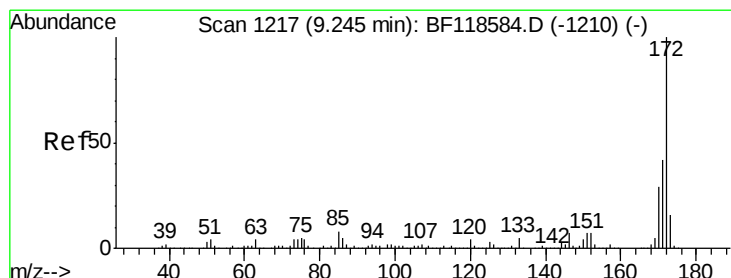
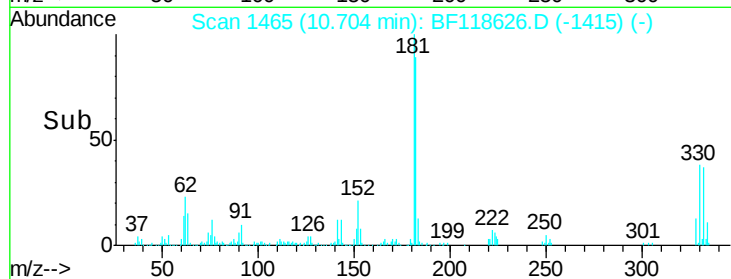
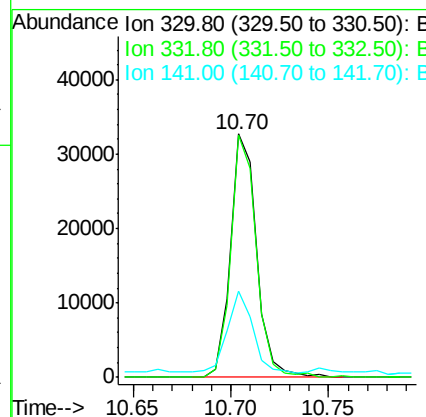
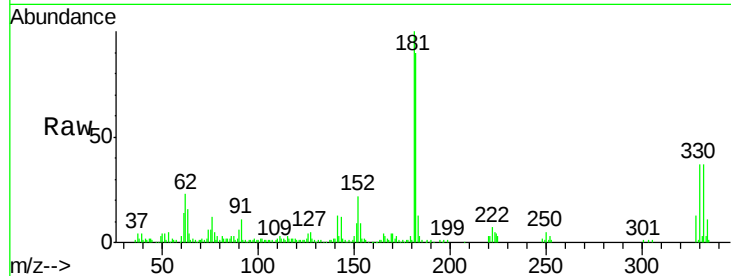
#42
 2,4,6-Tribromophenol
 Concen: 4.048 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF118626.D
 Acq: 21 Jan 2020 8:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-36-(7-9)

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.5	76.2	114.4	
141	32.5	23.9	35.9	

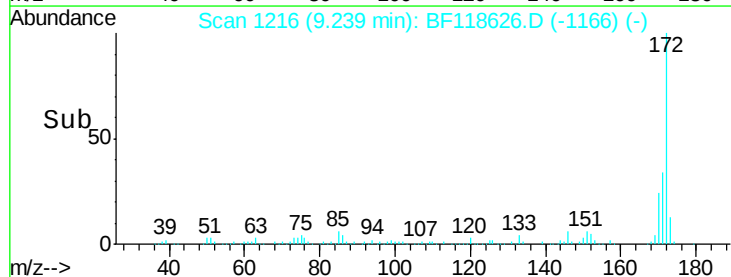
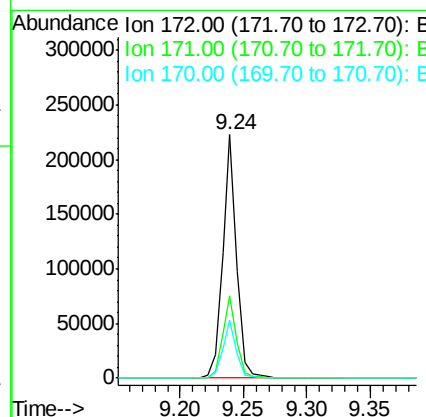
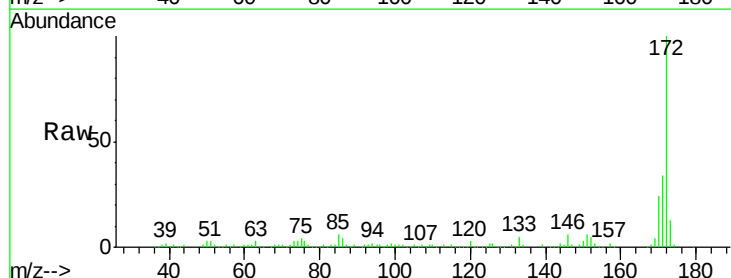
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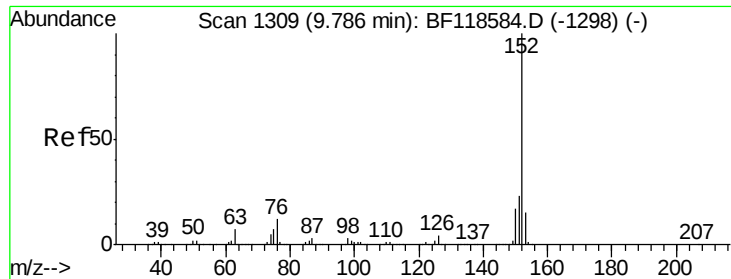
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#45
 2-Fluorobiphenyl
 Concen: 4.346 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF118626.D
 Acq: 21 Jan 2020 8:59

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.1	33.4	50.2	
170	24.1	23.2	34.8	





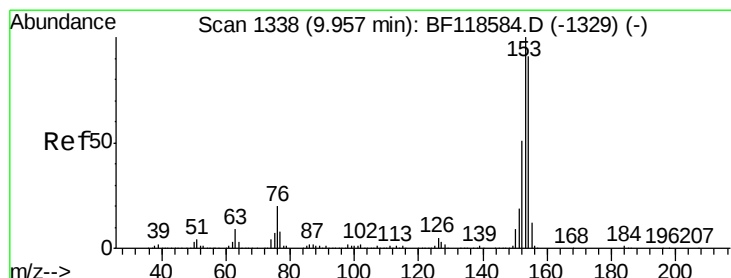
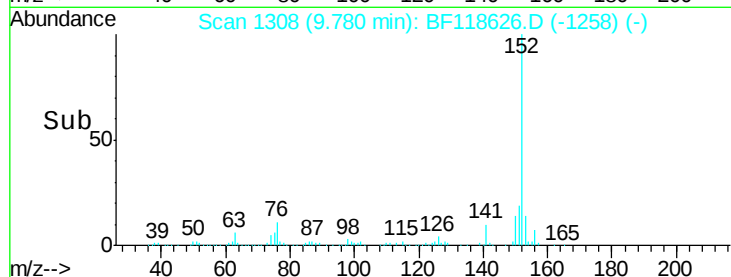
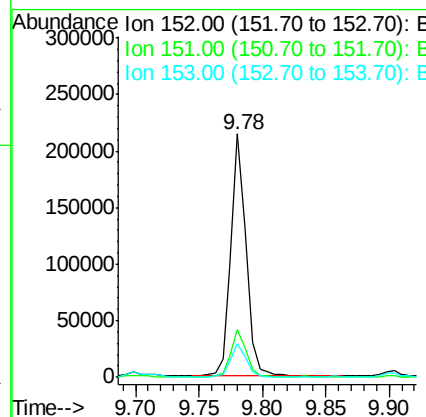
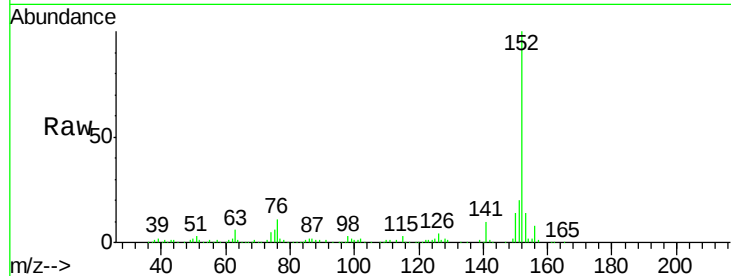
#49
Acenaphthylene
Concen: 3.354 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
152	100	178329		
151	19.6		18.6	27.8
153	13.7		12.2	18.4

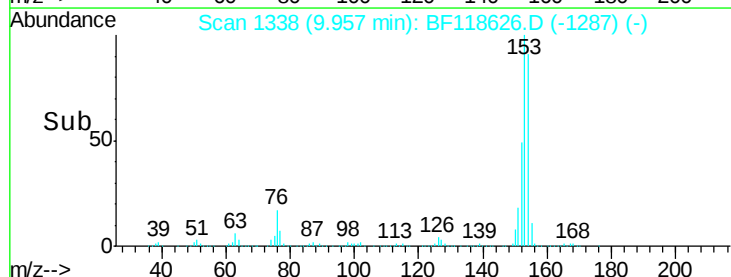
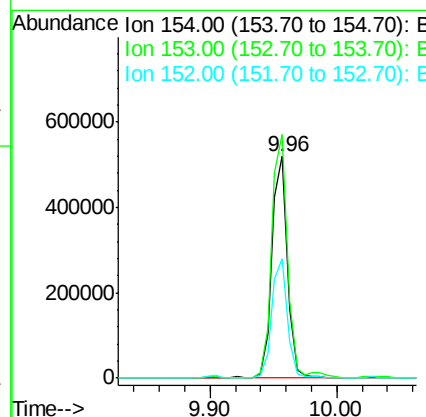
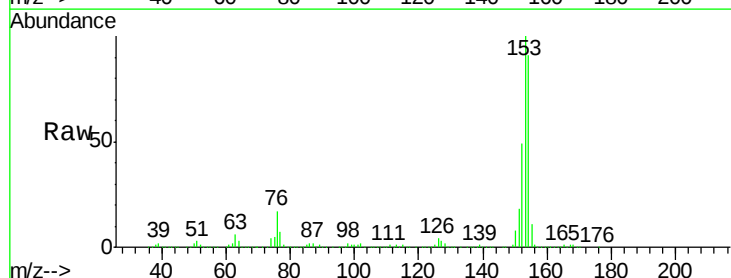
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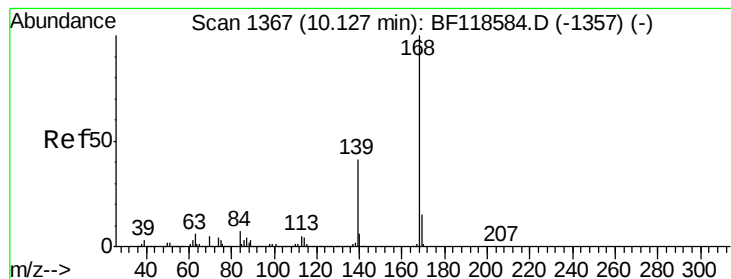
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#52
Acenaphthene
Concen: 12.564 ng
RT: 9.96 min Scan# 1338
Delta R.T. 0.00 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	446670		
153	109.9		87.6	131.4
152	53.9		44.4	66.6





#55

Dibenzenofuran

Concen: 6.663 ng

RT: 10.13 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

Instrument :

BNA_F

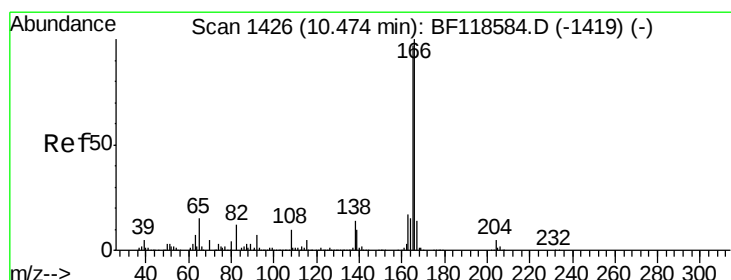
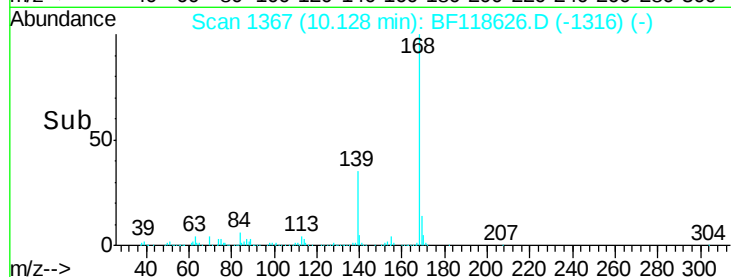
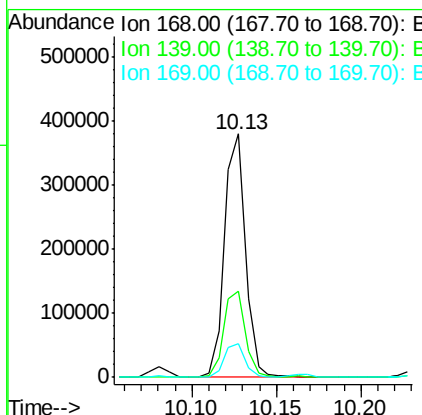
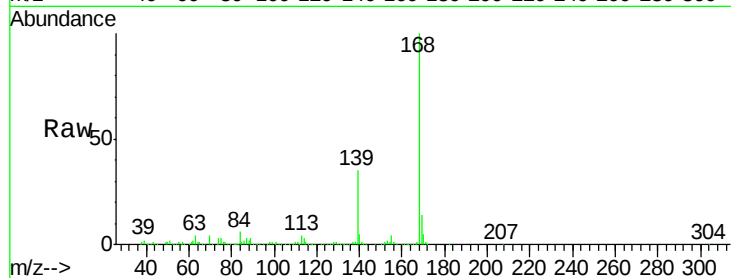
ClientSampleId :

SB-36-(7-9)

Tot Ion:	168	Resp:	328276
Ion Ratio	Lower	Upper	
168	100		
139	35.5	32.7	49.1
169	13.9	12.2	18.2

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#58

Fluorene

Concen: 13.336 ng

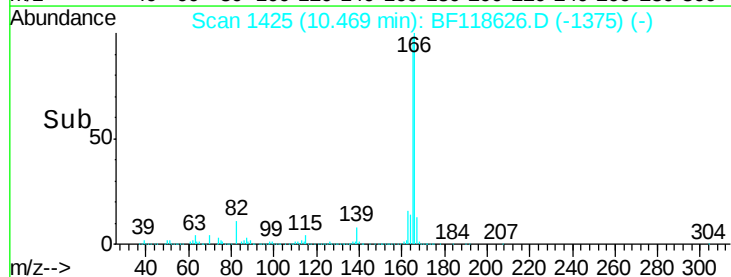
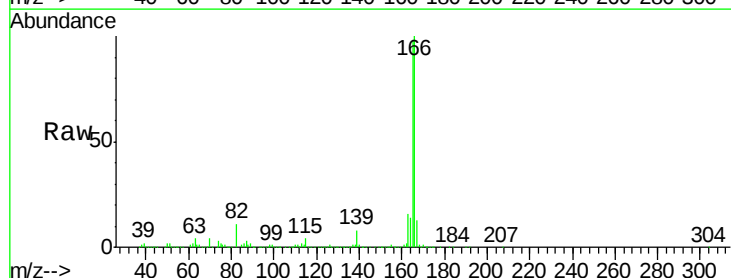
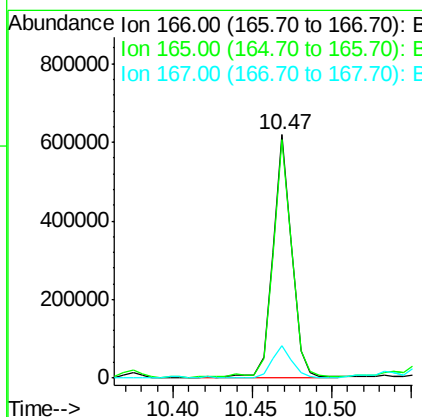
RT: 10.47 min Scan# 1425

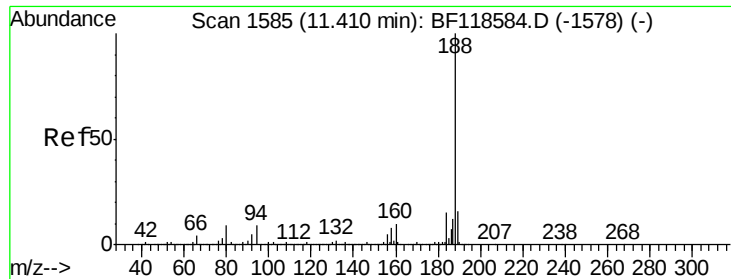
Delta R.T. -0.01 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

Tgt Ion:	166	Resp:	515823
Ion Ratio	Lower	Upper	
166	100		
165	97.8	77.3	115.9
167	13.4	11.5	17.3





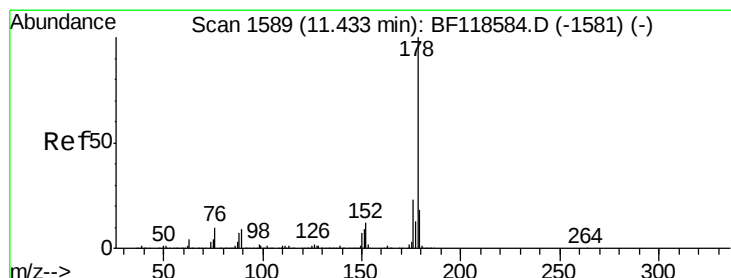
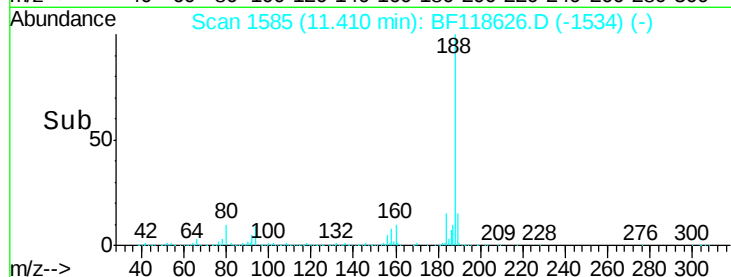
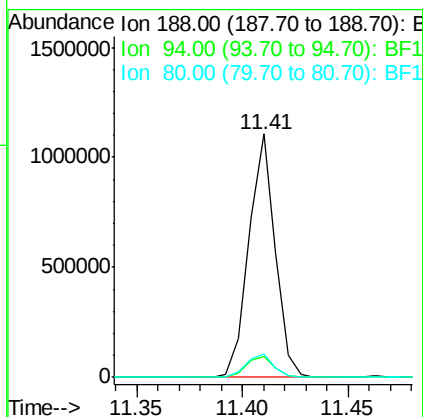
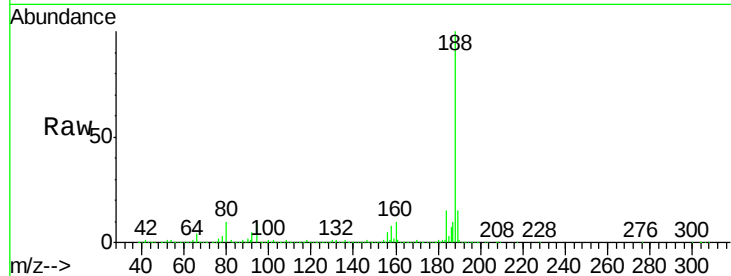
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.00 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Instrument :
BNA_F
ClientSampleId :
SB-36-(7-9)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.7	7.1	10.7
80	9.7	7.5	11.3

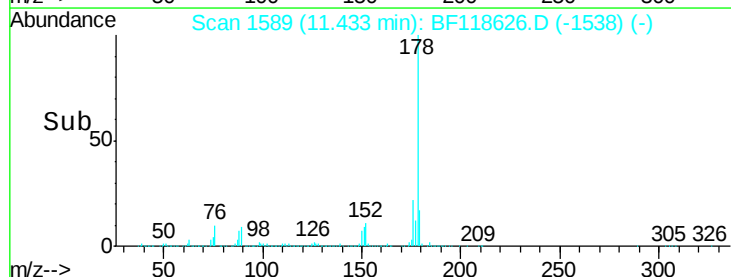
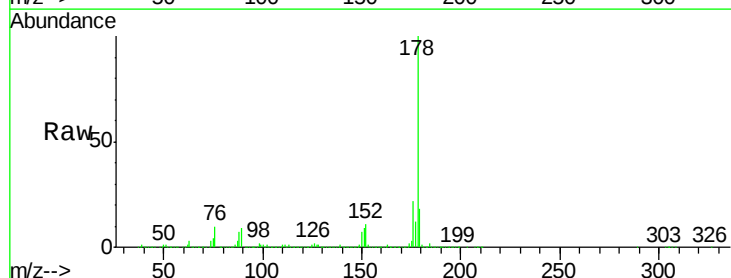
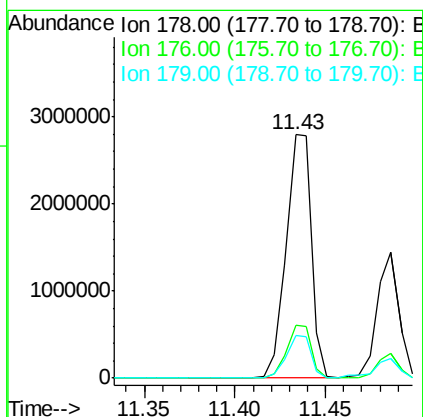
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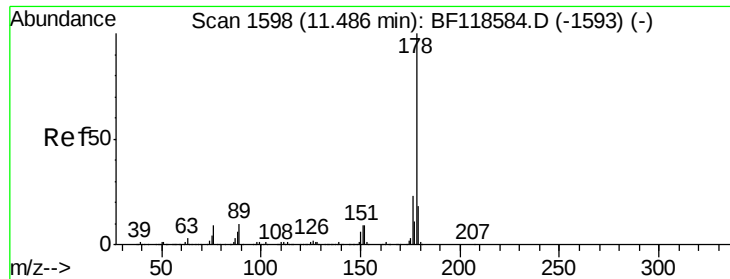
mohammad
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#71
Phenanthrene
Concen: 58.919 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	21.8	18.6	27.8
179	17.5	14.7	22.1





#72

Anthracene

Concen: 25.942 ng

RT: 11.49 min Scan# 1598

Delta R.T. 0.00 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

Instrument :

BNA_F

ClientSampleId :

SB-36-(7-9)

Tot Ion:178 Resp: 1189364

Ion Ratio Lower Upper

178 100

176 19.2 18.0 27.0

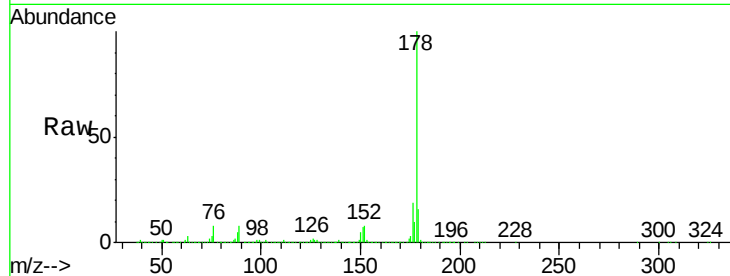
179 16.0 14.7 22.1

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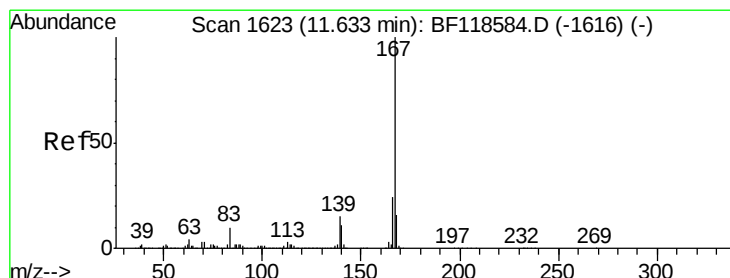
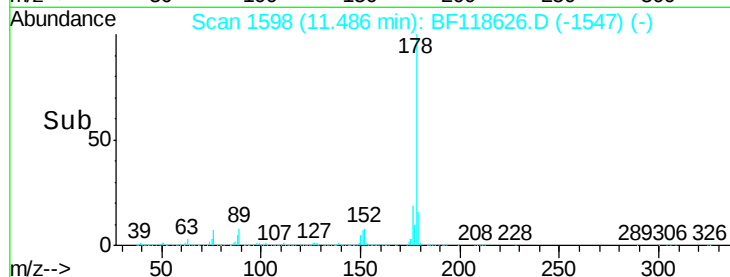
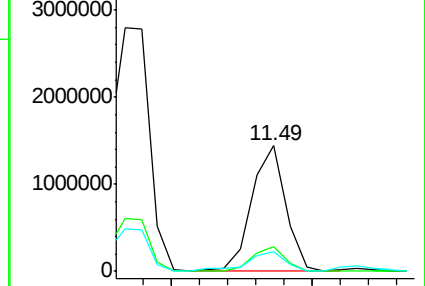
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 5.739 ng

RT: 11.63 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

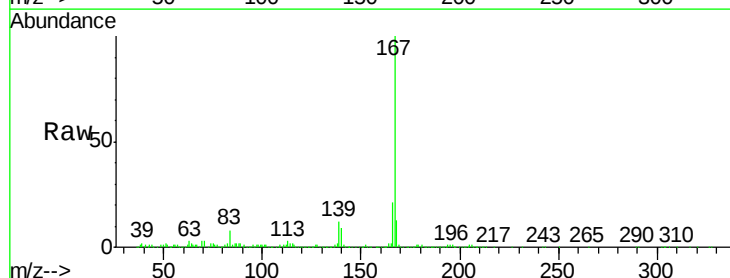
Tgt Ion:167 Resp: 241346

Ion Ratio Lower Upper

167 100

166 21.4 19.4 29.2

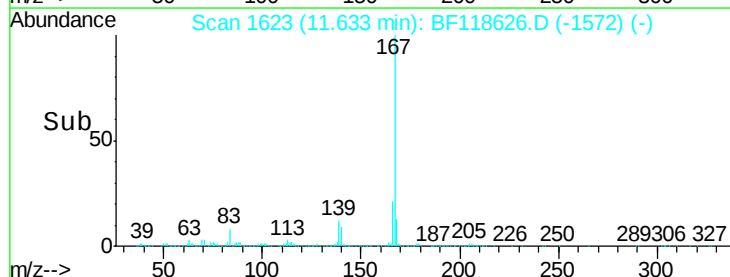
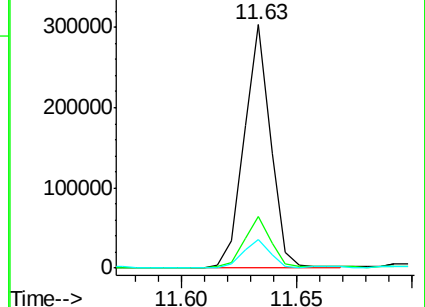
139 11.9 11.7 17.5

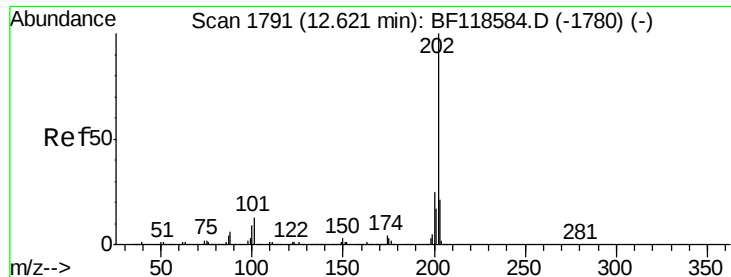


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 78.296 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

Instrument :

BNA_F

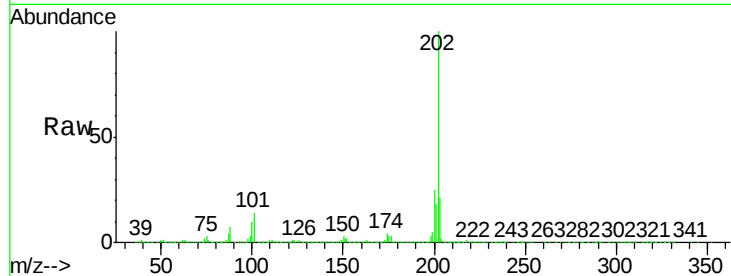
ClientSampleId :

SB-36-(7-9)

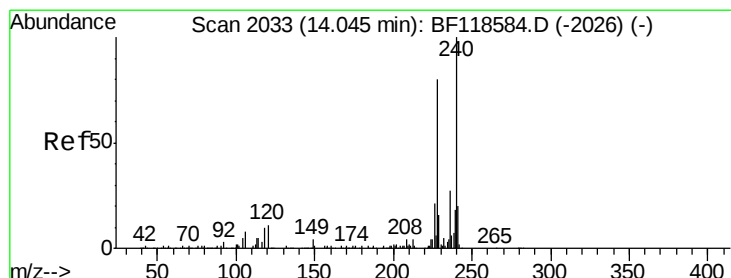
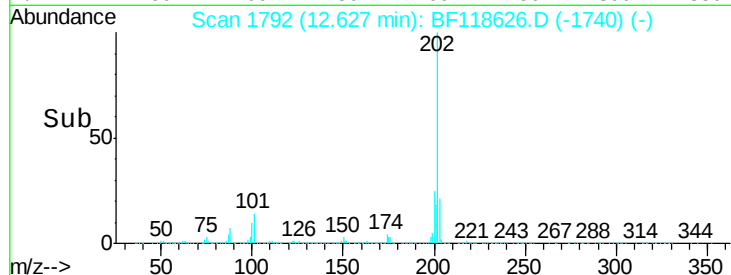
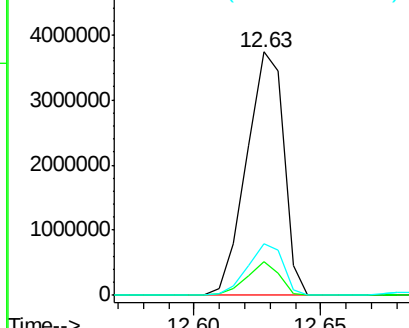
Tot Ion:	202	Resp:	3826215
Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	32.5
203	21.1	0.8	40.8

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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

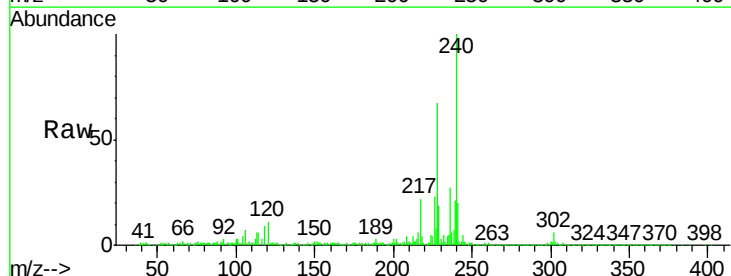
RT: 14.05 min Scan# 2034

Delta R.T. 0.01 min

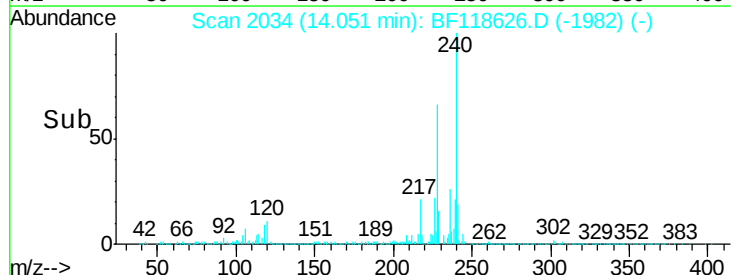
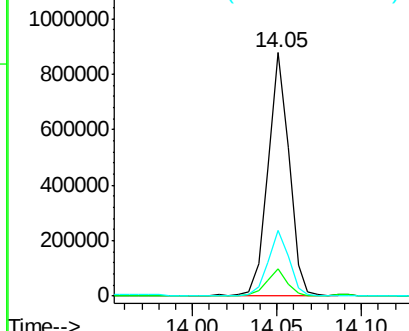
Lab File: BF118626.D

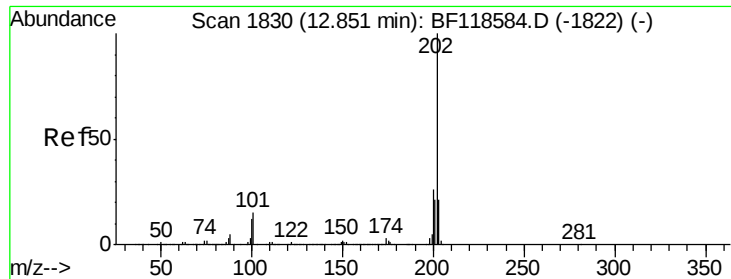
Acq: 21 Jan 2020 8:59

Tgt Ion:	240	Resp:	753608
Ion	Ratio	Lower	Upper
240	100		
120	11.0	8.9	13.3
236	26.8	21.5	32.3



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





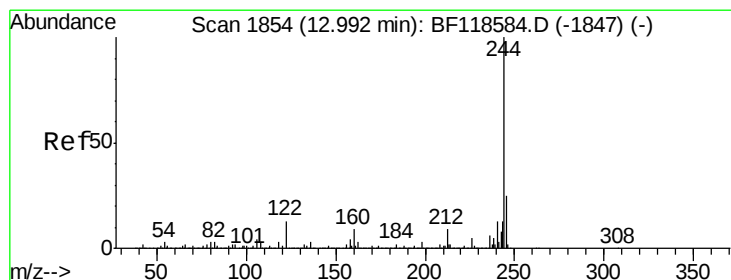
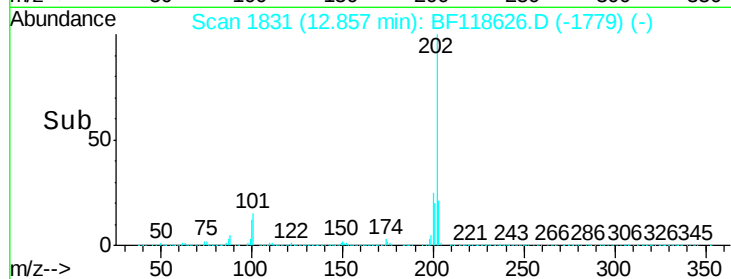
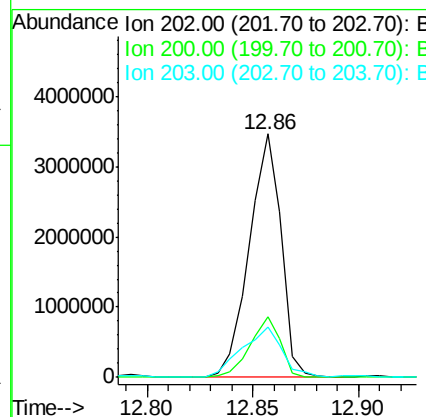
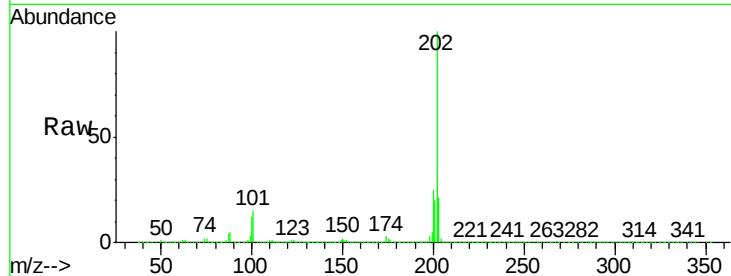
#78
Pvrene
Concen: 70.750 ng
RT: 12.86 min Scan# 1831
Delta R.T. 0.01 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Instrument :
BNA_F
ClientSampleId :
SB-36-(7-9)

Tot Ion	Ratio	Lower	Upper
202	100		
200	24.7	20.6	31.0
203	20.9	16.8	25.2

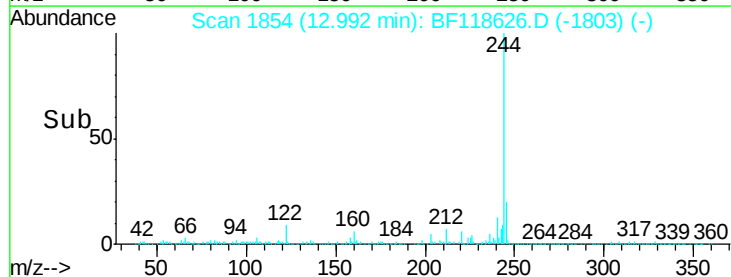
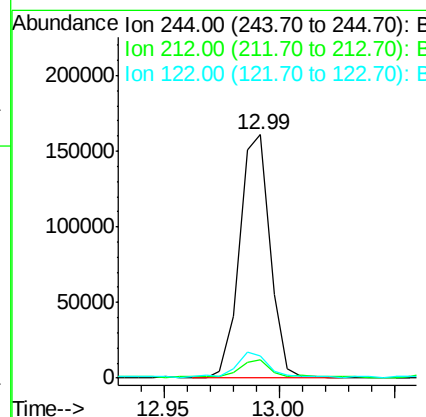
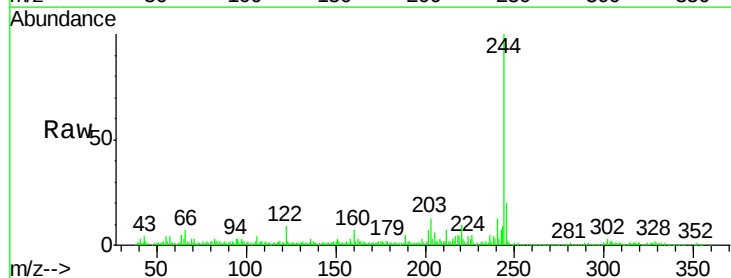
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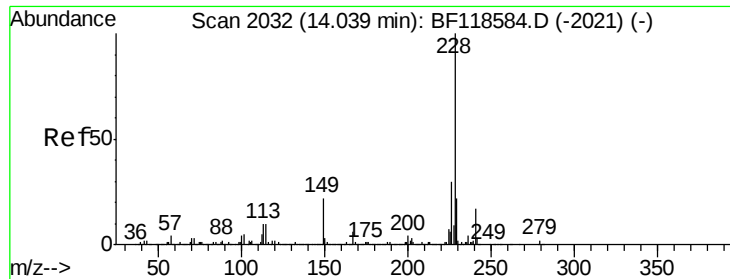
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#79
Terphenyl-d14
Concen: 4.273 ng
RT: 12.99 min Scan# 1854
Delta R.T. 0.00 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	7.0	10.4
122	9.2	10.7	16.1#





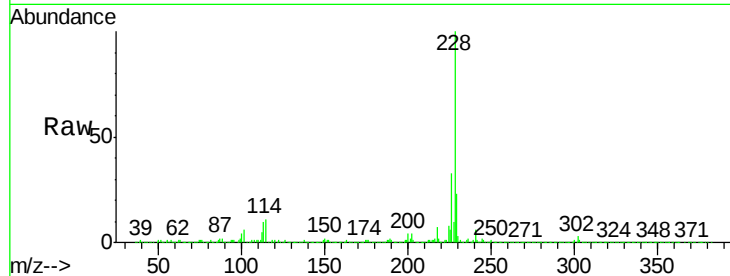
#81
Benzo(a)anthracene
Concen: 44.726 ng
RT: 14.04 min Scan# 2032
Delta R.T. 0.00 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Instrument :
BNA_F
ClientSampleId :
SB-36-(7-9)

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.7	24.1	36.1
229	22.9	17.6	26.4

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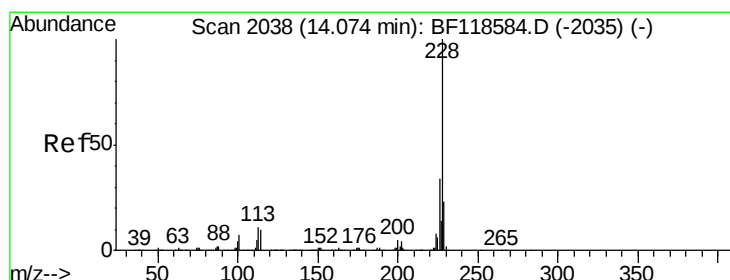
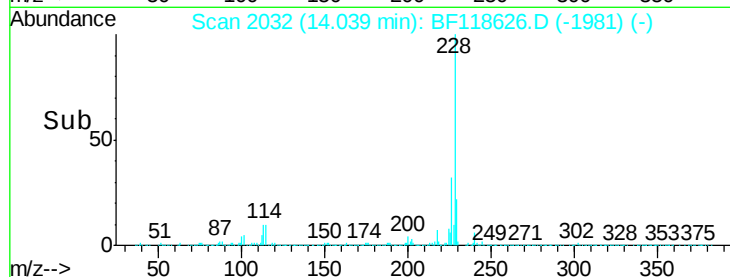
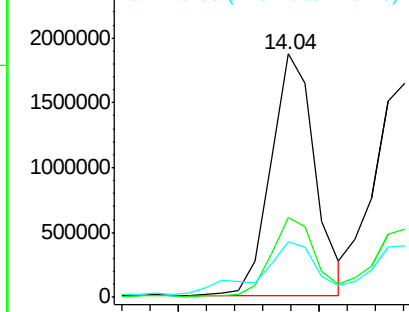


Abundance

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: 39.566 ng
RT: 14.08 min Scan# 2039
Delta R.T. 0.01 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

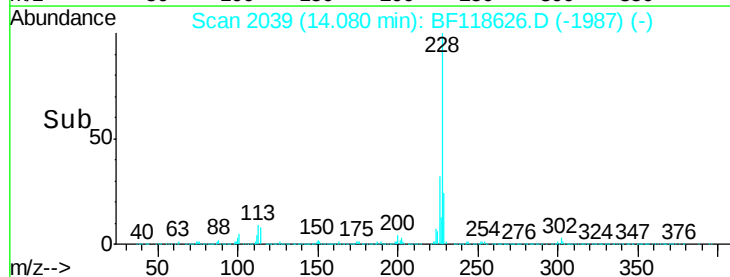
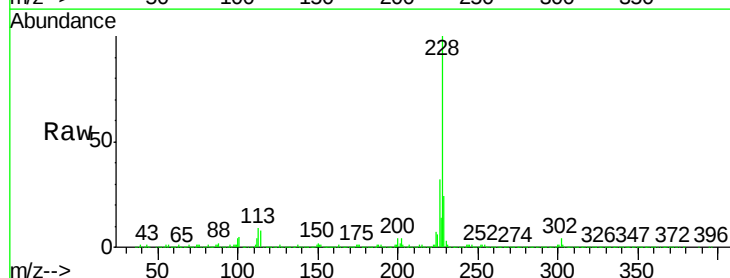
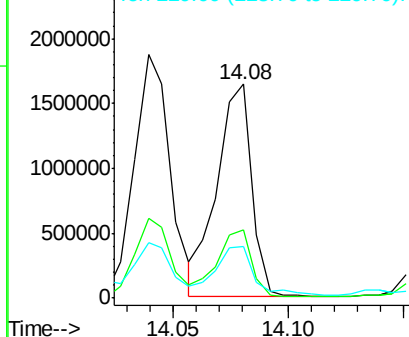
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.2	27.4	41.0
229	24.1	18.3	27.5

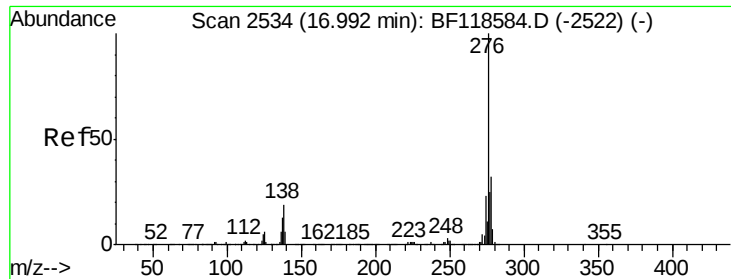
Abundance

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





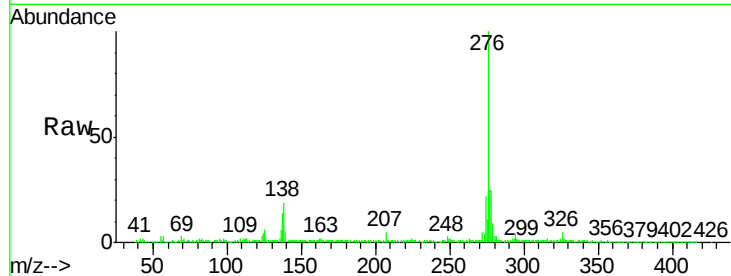
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 23.393 ng
 RT: 17.02 min Scan# 2539
 Delta R.T. 0.03 min
 Lab File: BF118626.D
 Acq: 21 Jan 2020 8:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-36-(7-9)

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.8	17.2	25.8
277	24.7	20.5	30.7

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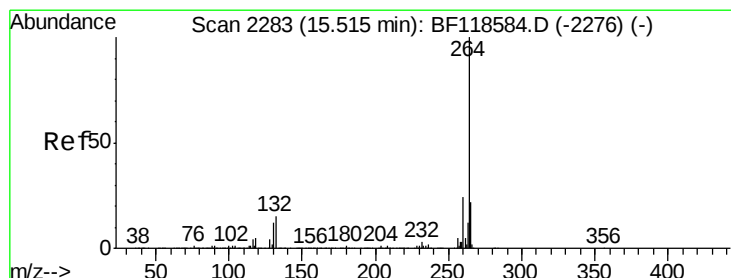
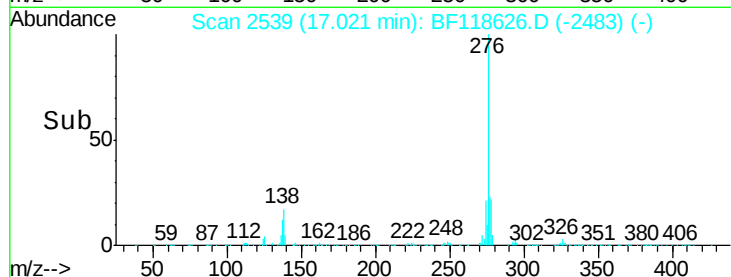
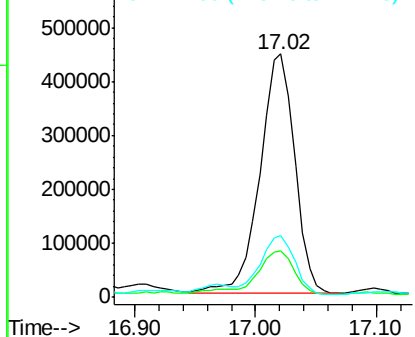


Abundance

Ion 276.00 (275.70 to 276.70): E

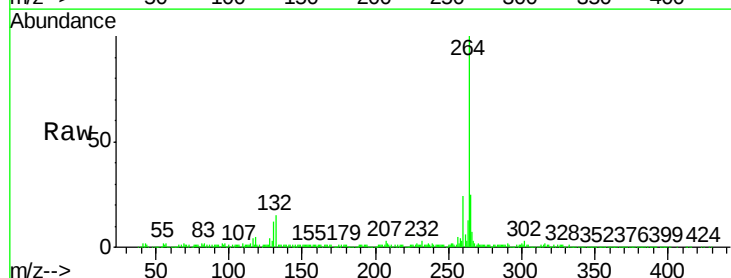
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.53 min Scan# 2286
 Delta R.T. 0.02 min
 Lab File: BF118626.D
 Acq: 21 Jan 2020 8:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.6	29.4
265	24.7	17.7	26.5

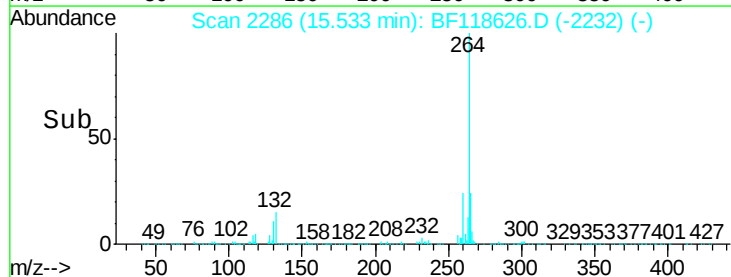
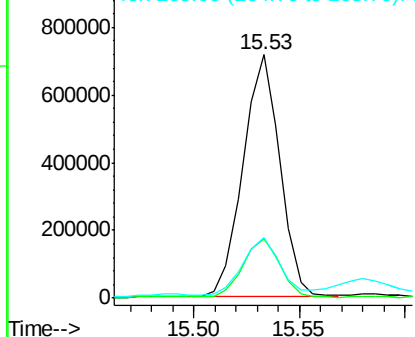


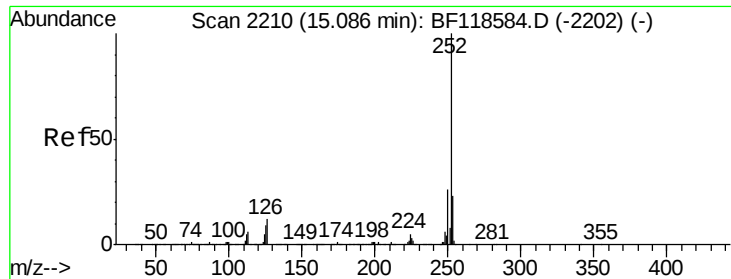
Abundance

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: 45.329 ng m

RT: 15.10 min Scan# 2213

Delta R.T. 0.02 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

Instrument :

BNA_F

ClientSampleId :

SB-36-(7-9)

Tot Ion:252 Resp: 2477805

Ion Ratio Lower Upper

252 100

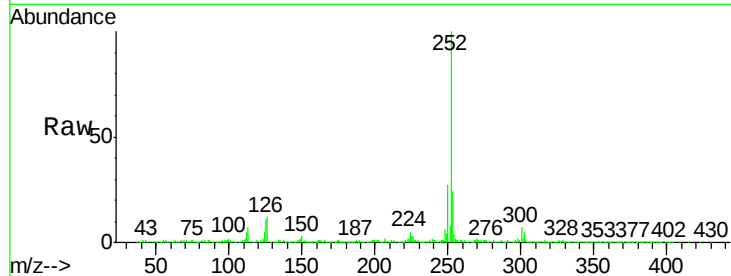
253 23.8 18.7 28.1

125 10.6 7.3 10.9

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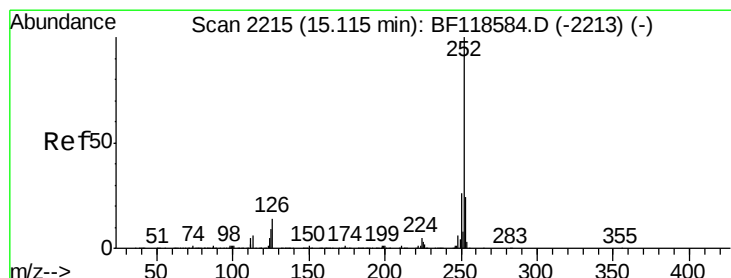
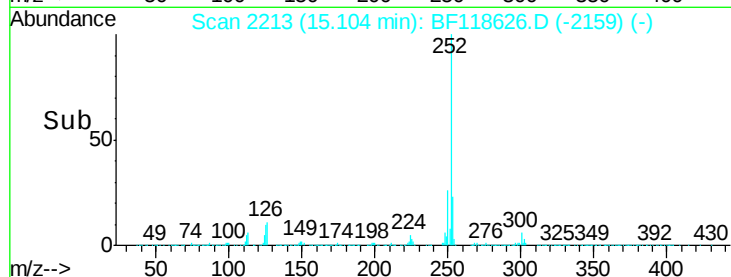
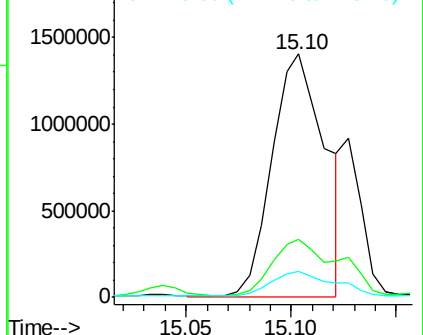
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 11.650 ng m

RT: 15.13 min Scan# 2217

Delta R.T. 0.01 min

Lab File: BF118626.D

Acq: 21 Jan 2020 8:59

Tgt Ion:252 Resp: 590004

Ion Ratio Lower Upper

252 100

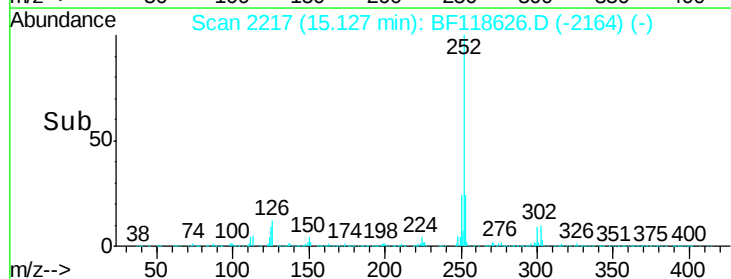
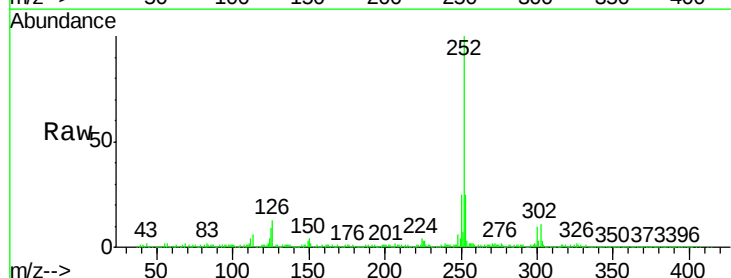
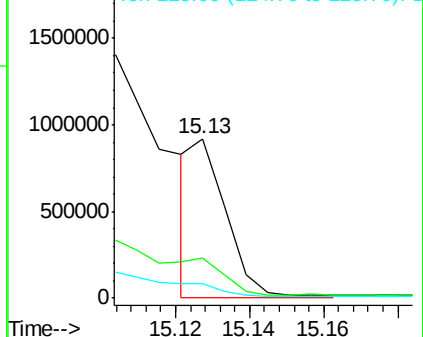
253 25.0 19.0 28.4

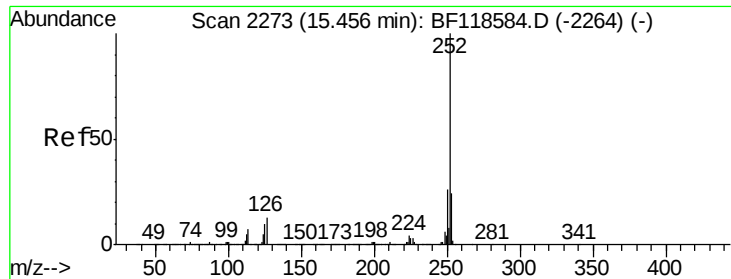
125 9.3 7.6 11.4

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





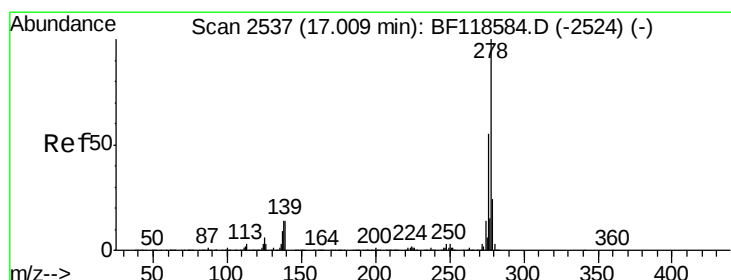
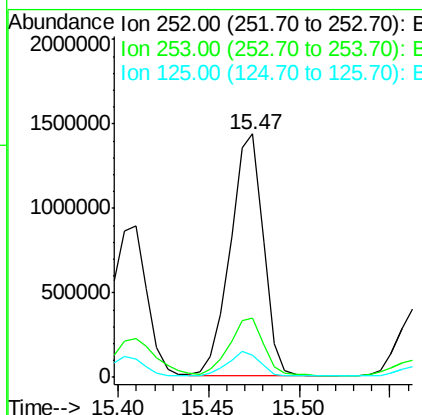
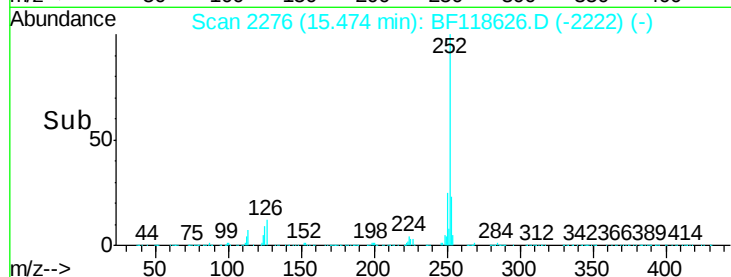
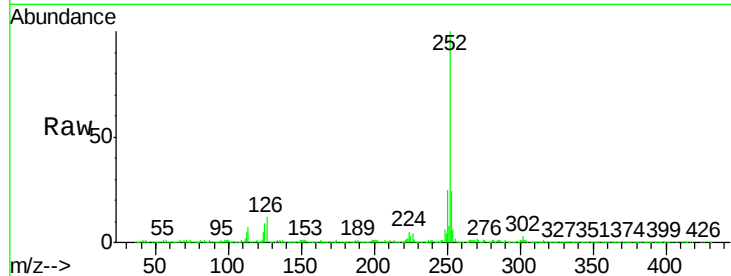
#90
Benzo(a)pyrene
Concen: 38.336 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Instrument :
BNA_F
ClientSampleId :
SB-36-(7-9)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.8	28.2
125	9.3	7.8	11.6

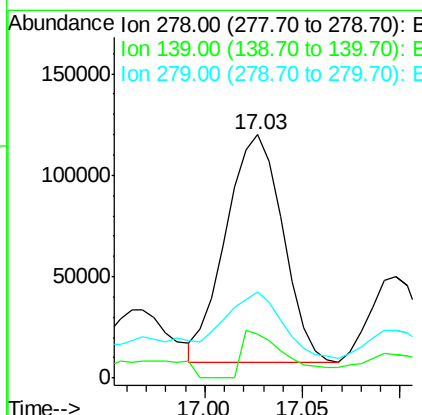
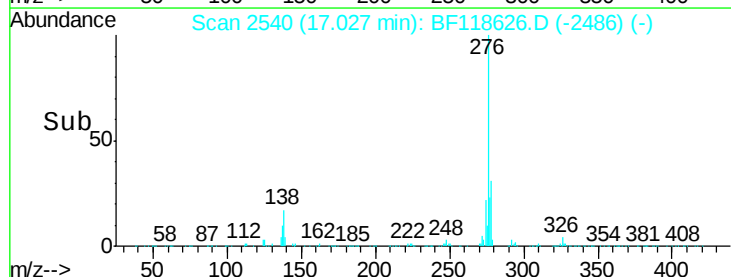
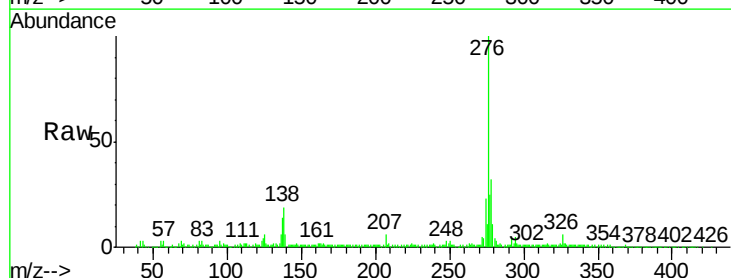
Manual Integrations
APPROVED

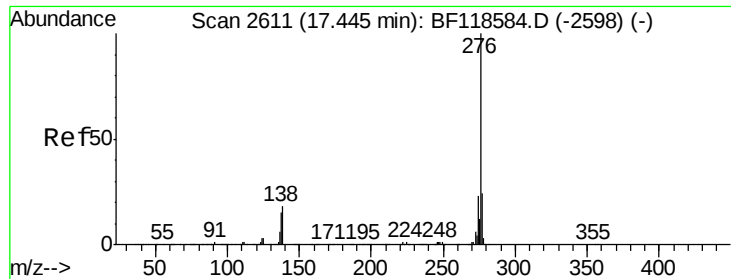
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 5.445 ng
RT: 17.03 min Scan# 2540
Delta R.T. 0.02 min
Lab File: BF118626.D
Acq: 21 Jan 2020 8:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.0	11.4	17.0#
279	35.4	19.0	28.6#





#92
 Benzo(a,h,i)perylene
 Concen: 20.056 ng
 RT: 17.47 min Scan# 2615
 Delta R.T. 0.02 min
 Lab File: BF118626.D
 Acq: 21 Jan 2020 8:59

Instrument :
 BNA_F
 ClientSampleId :
 SB-36-(7-9)

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.9	28.3
138	21.1	14.4	21.6

Manual Integrations
 APPROVED

mohammad
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