

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
 Data File : BF118019.D
 Acq On : 26 Nov 2019 20:48
 Operator : JU
 Sample : K5959-11 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WS-112019-2-5-COMP-B2

Manual Integrations
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Quant Time: Nov 27 01:21:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 05:38:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	120343	20.00	ng	0.00
21) Naphthalene-d8	8.18	136	444592	20.00	ng	0.00
39) Acenaphthene-d10	9.95	164	203387	20.00	ng	0.00
64) Phenanthrene-d10	11.44	188	315424	20.00	ng	0.00
76) Chrysene-d12	14.10	240	205763	20.00	ng	0.01
87) Perylene-d12	15.60	264	187420	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	171692	25.25	ng	0.00
7) Phenol-d6	6.51	99	177713	21.67	ng	-0.01
23) Nitrobenzene-d5	7.45	82	99499	13.30	ng	-0.01
42) 2,4,6-Tribromophenol	10.73	330	35408	16.44	ng	0.00
45) 2-Fluorobiphenyl	9.26	172	195198	17.22	ng	0.00
79) Terphenyl-d14	13.03	244	156339	13.89	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.20	128	124721	6.017	ng	97
37) 2-Methylnaphthalene	8.90	142	45158	3.225	ng	99
38) 1-Methylnaphthalene	9.00	142	33983	2.567	ng	100
49) Acenaphthylene	9.80	152	70801	3.912	ng	97
50) Dimethylphthalate	9.65	163	33256	2.332	ng	98
52) Acenaphthene	9.98	154	75056	6.474	ng	99
55) Dibenzofuran	10.15	168	90935	5.664	ng	97
58) Fluorene	10.49	166	80919	6.504	ng	99
71) Phenanthrene	11.47	178	1092724	68.905	ng	97
72) Anthracene	11.52	178	261279	16.617	ng	98
73) Carbazole	11.67	167	65613	4.775	ng	98
75) Fluoranthene	12.67	202	1276526	97.108	ng	99
78) Pvrene	12.90	202	1223746	73.592	ng	98
81) Benzo(a)anthracene	14.09	228	581696	42.781	ng	98
83) Chrysene	14.12	228	499011	37.874	ng	98
86) Indeno(1,2,3-cd)pyrene	17.13	276	193560	17.261	ng	# 94
88) Benzo(b)fluoranthene	15.16	252	540672m	44.402	ng	
89) Benzo(k)fluoranthene	15.18	252	164835m	14.367	ng	
90) Benzo(a)pvrene	15.54	252	375278	35.048	ng	97
91) Dibenzo(a,h)anthracene	17.14	278	51909	5.632	ng	95
92) Benzo(g,h,i)perylene	17.59	276	178195	19.412	ng	98

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

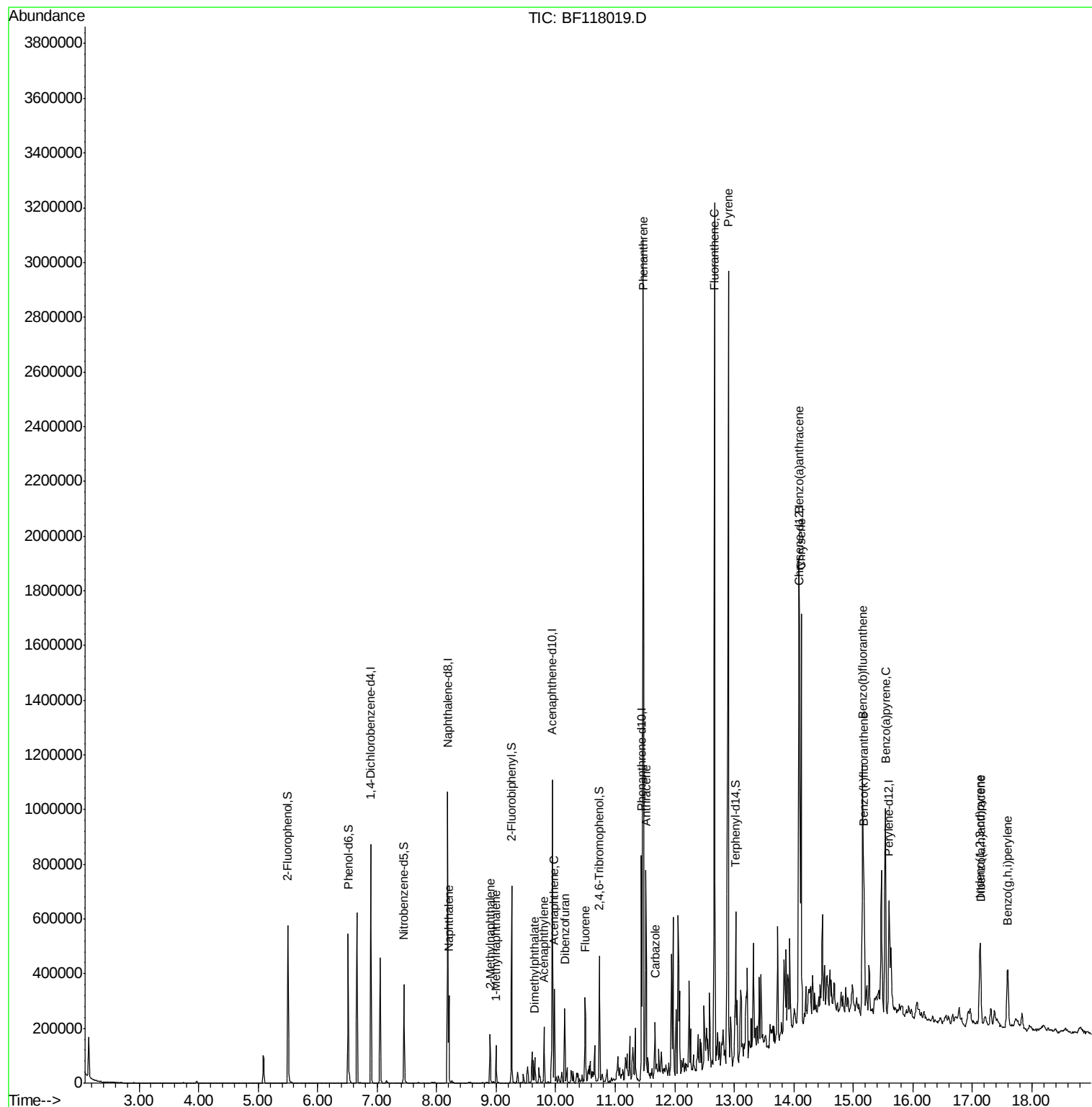
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
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ALS Vial : 22 Sample Multiplier: 1

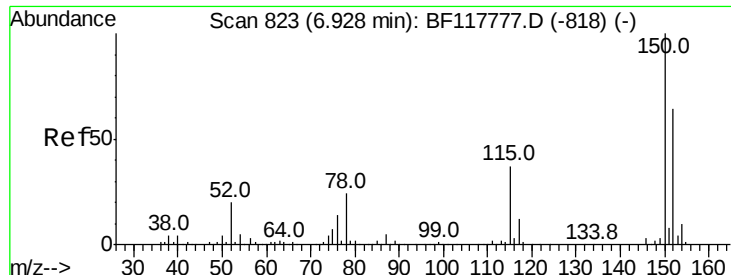
Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

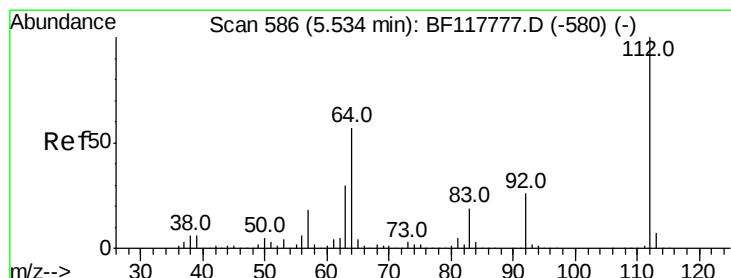
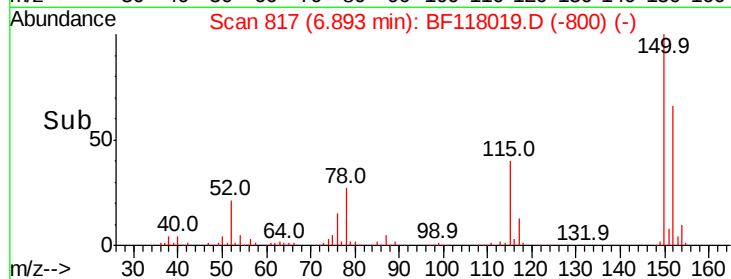
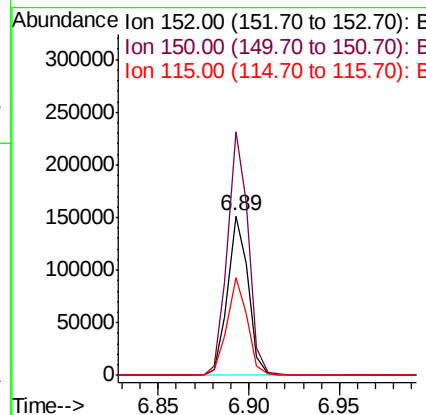
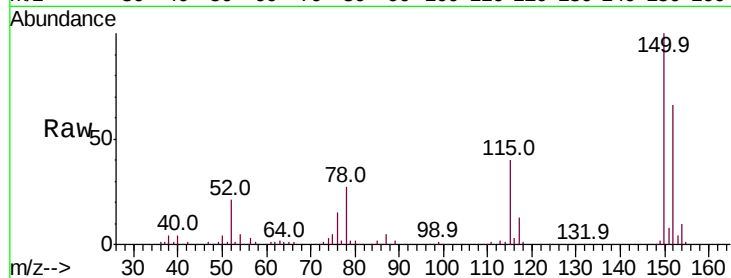
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. 0.00 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.4	125.3	187.9
115	61.3	47.0	70.4

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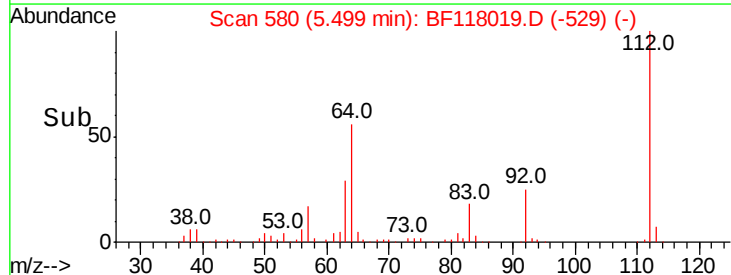
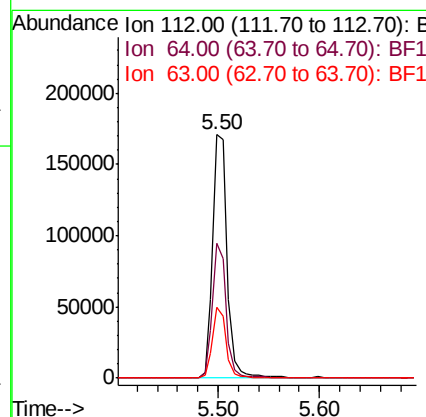
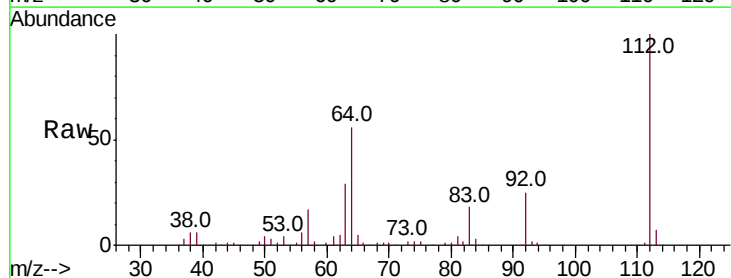
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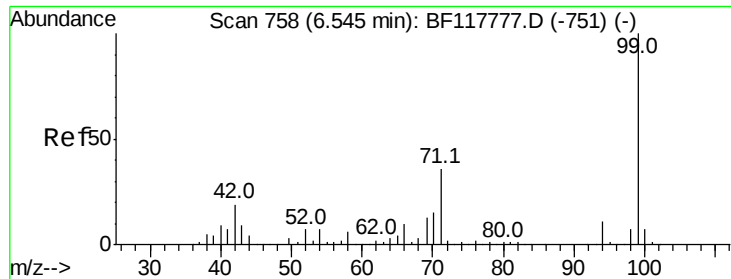


#5

2-Fluorophenol
Concen: 25.254 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.00 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.6	45.6	68.4
63	28.8	24.1	36.1





#7

Phenol-d6

Concen: 21.672 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

Instrument :

BNA_F

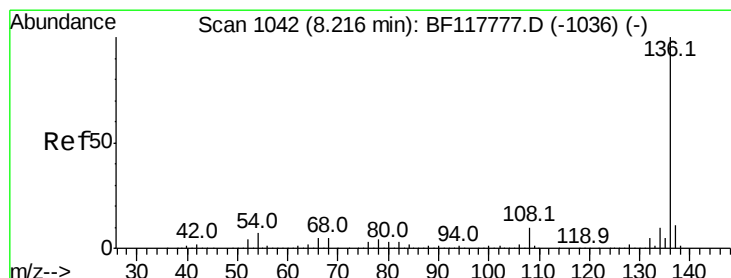
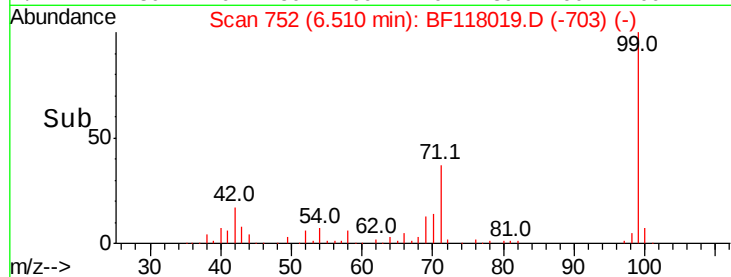
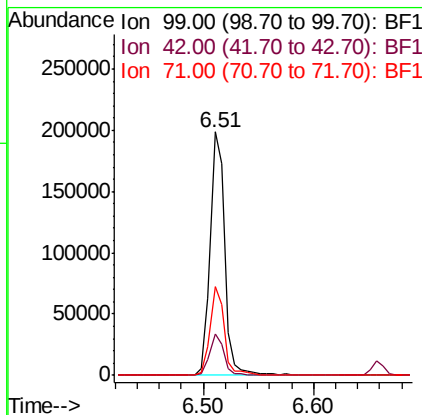
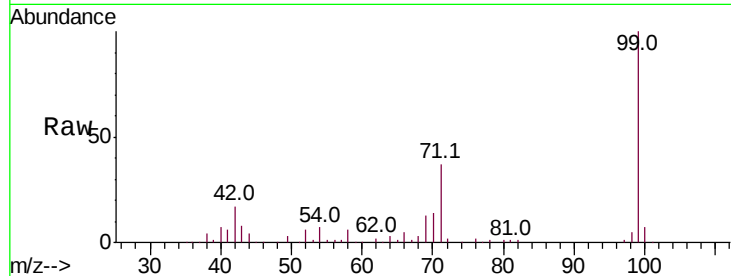
ClientSampleId :

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Tot Ion:	99	Resp:	177713
Ion	Ratio	Lower	Upper
99	100		
42	17.3	14.9	22.3
71	36.7	28.6	43.0

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#21

Naphthalene-d8

Concen: 20.000 ng

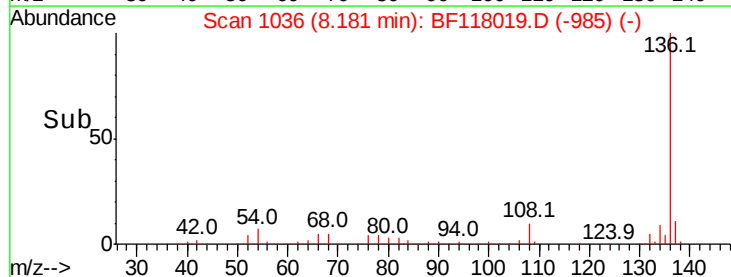
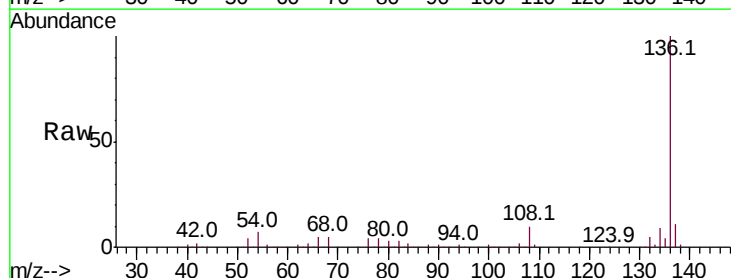
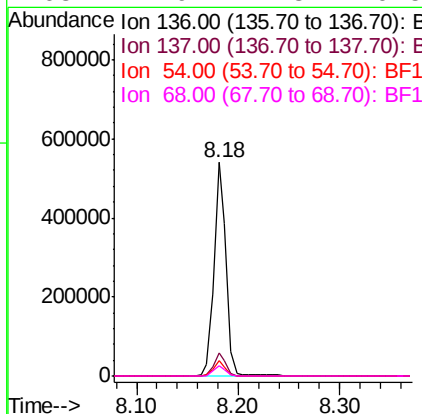
RT: 8.18 min Scan# 1036

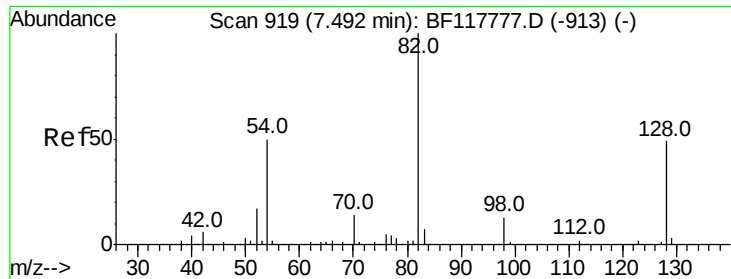
Delta R.T. 0.00 min

Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

Tgt Ion:	136	Resp:	444592
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.0	5.4	8.2
68	4.9	4.3	6.5





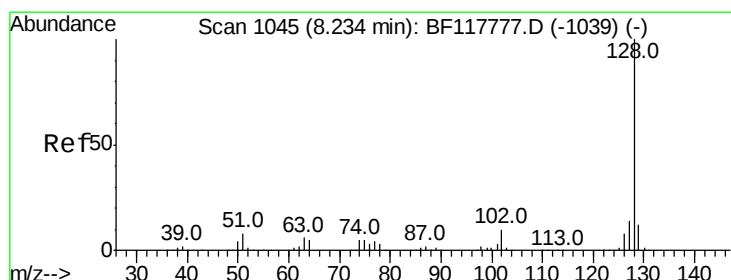
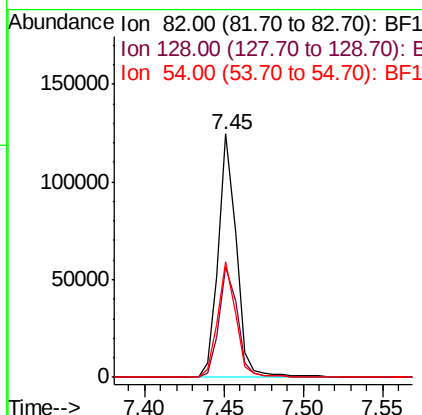
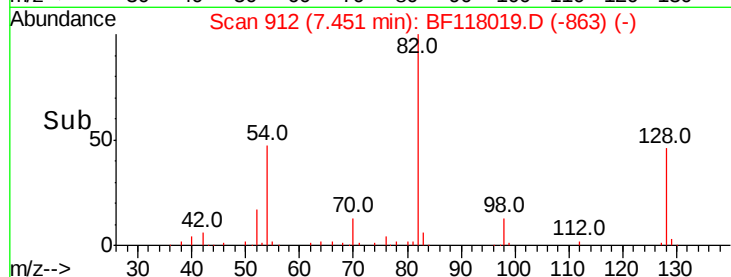
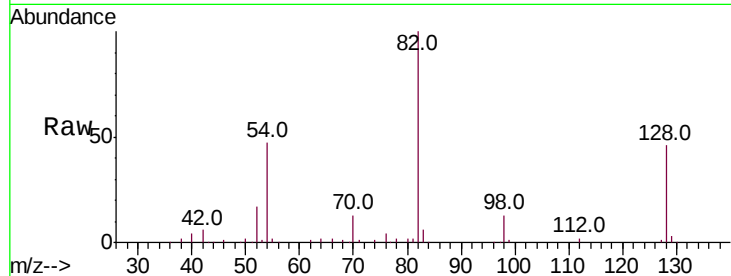
#23
Nitrobenzene-d5
Concen: 13.304 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.6	38.9	58.3
54	47.5	39.8	59.6

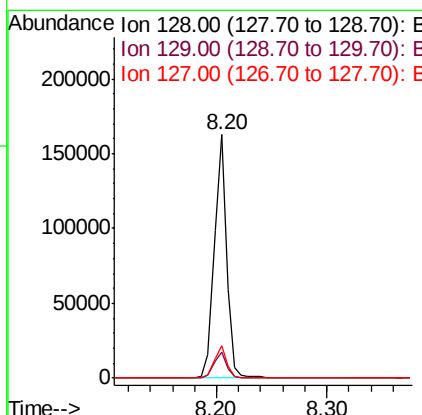
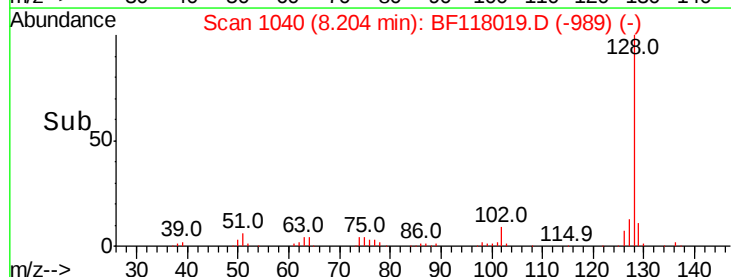
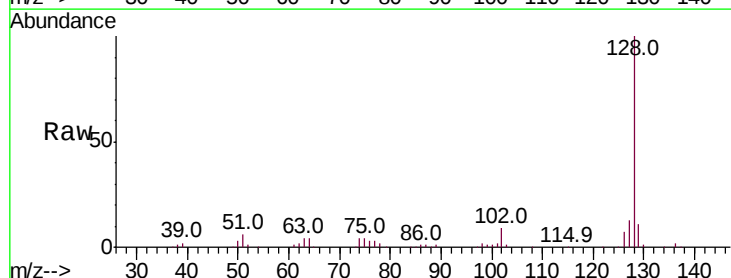
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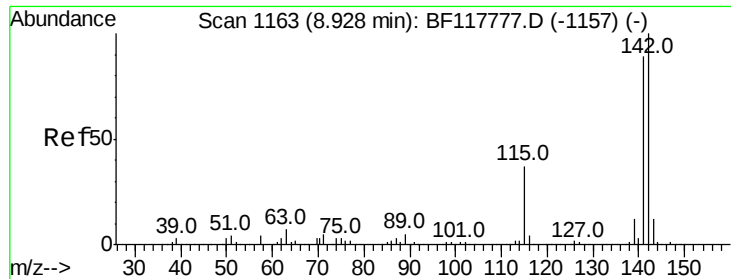
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#31
Naphthalene
Concen: 6.017 ng
RT: 8.20 min Scan# 1040
Delta R.T. 0.00 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.5	14.3
127	13.3	11.3	16.9





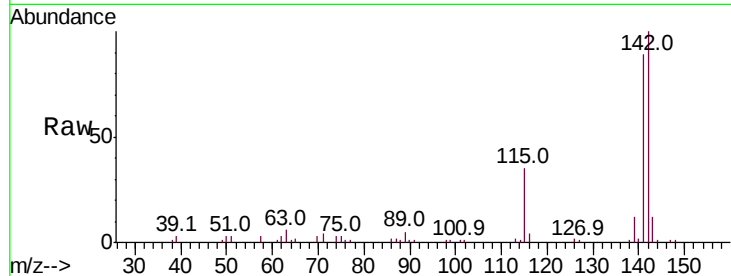
#37
2-Methylnaphthalene
Concen: 3.225 ng
RT: 8.90 min Scan# 1158
Delta R.T. 0.00 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

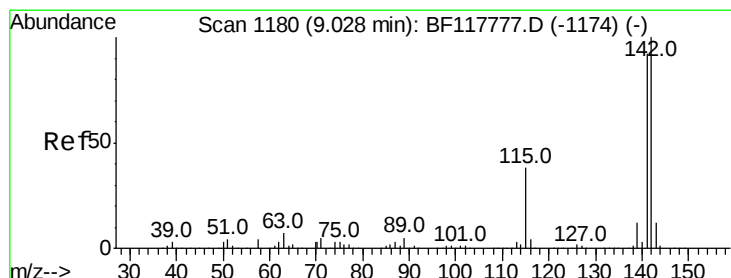
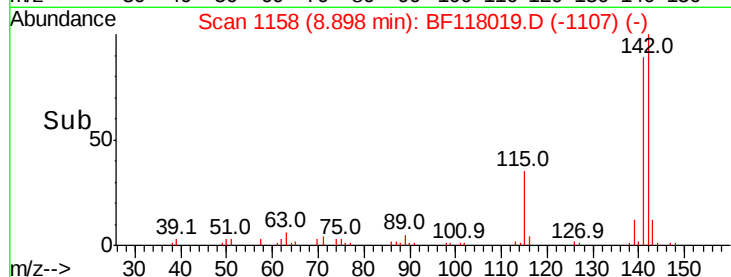
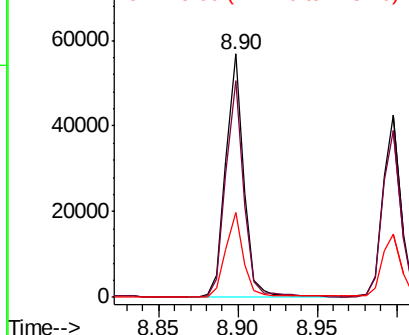
Tot Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.1	106.7
115	35.1	29.2	43.8

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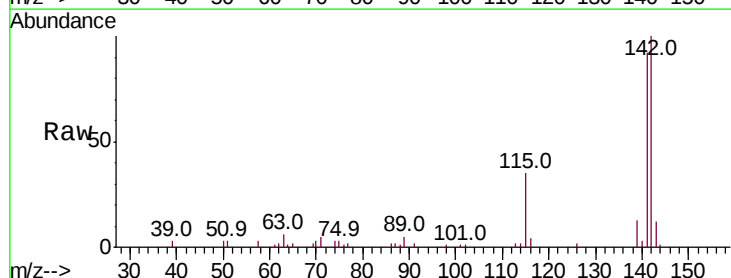


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

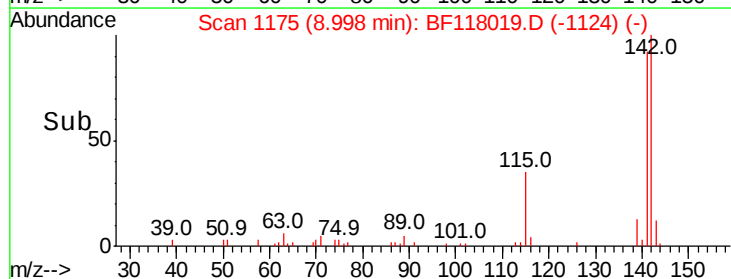
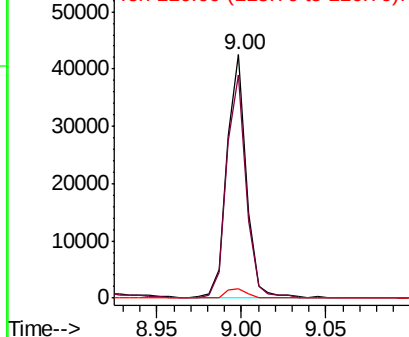


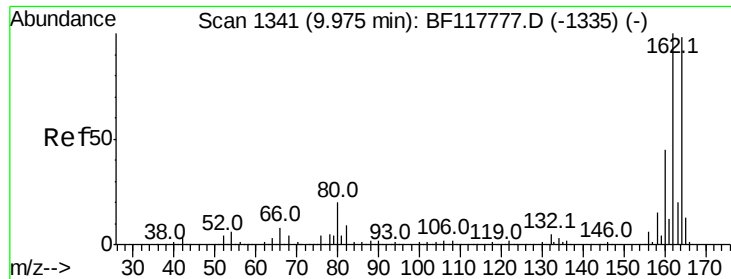
#38
1-Methylnaphthalene
Concen: 2.567 ng
RT: 9.00 min Scan# 1175
Delta R.T. 0.00 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.5	110.3
116	4.0	3.2	4.8



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





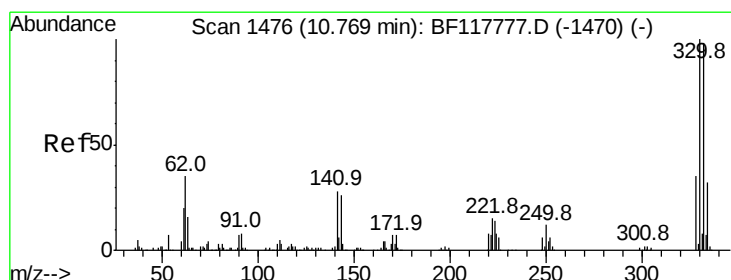
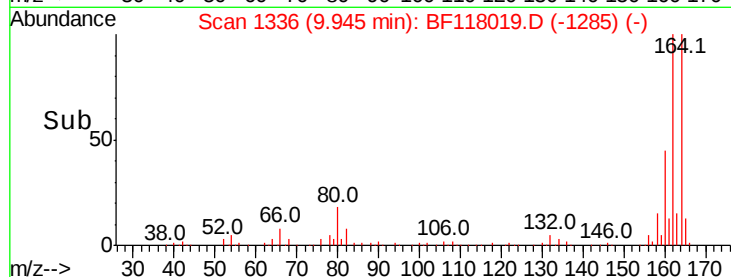
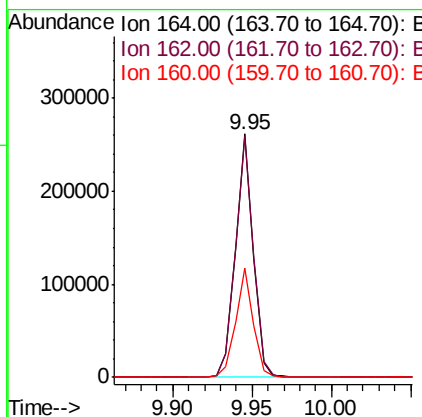
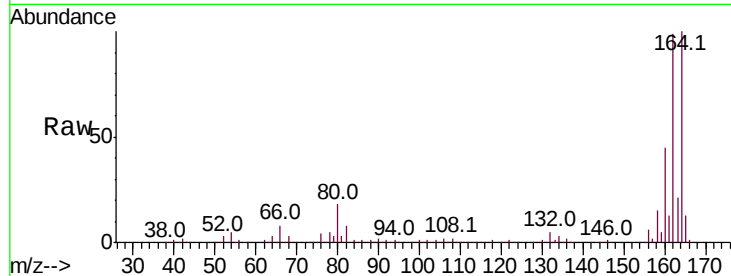
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.95 min Scan# 1336
Delta R.T. 0.00 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Resp	Lower	Upper
164	100	203387		
162	99.2	81.3	121.9	
160	45.1	36.6	55.0	

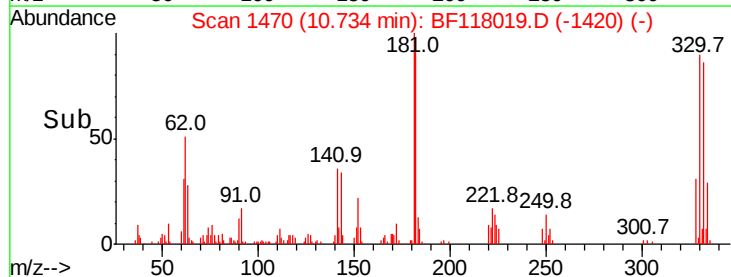
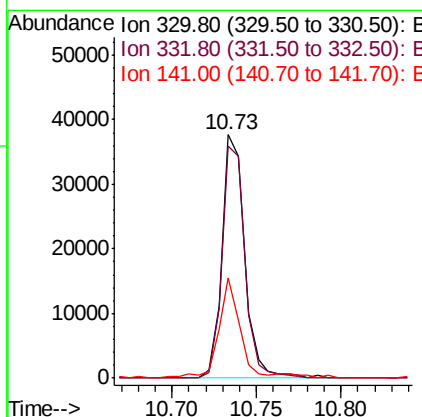
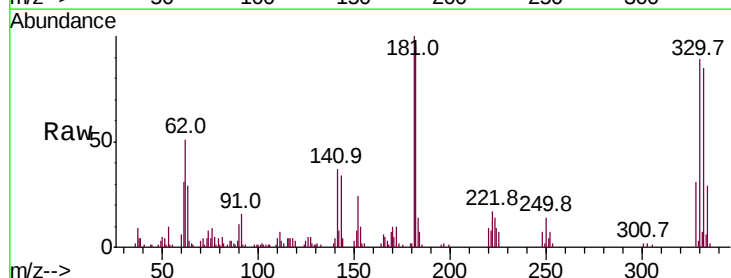
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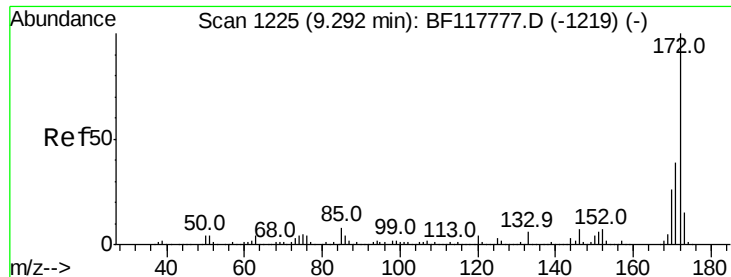
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#42
2,4,6-Tribromophenol
Concen: 16.444 ng
RT: 10.73 min Scan# 1470
Delta R.T. -0.01 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	35408		
332	95.9	76.7	115.1	
141	38.0	27.7	41.5	





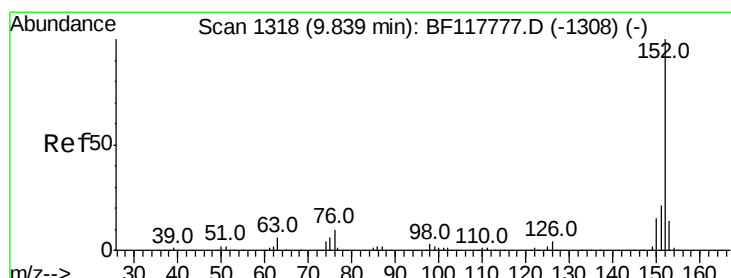
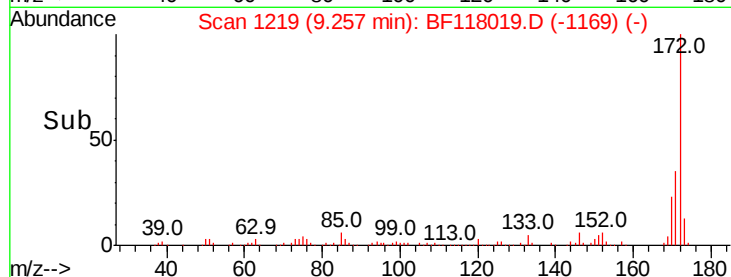
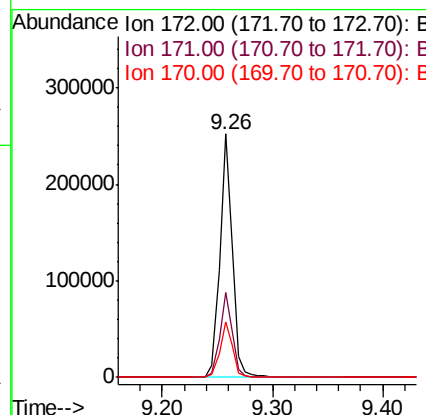
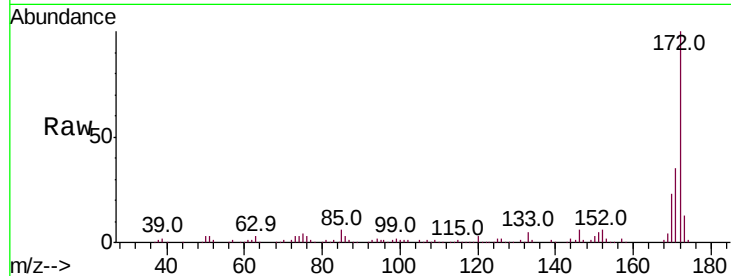
#45
2-Fluorobiphenyl
Concen: 17.218 ng
RT: 9.26 min Scan# 1219
Delta R.T. -0.01 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Resp	Lower	Upper
172	100	195198		
171	34.9		30.9	46.3
170	23.0		21.0	31.4

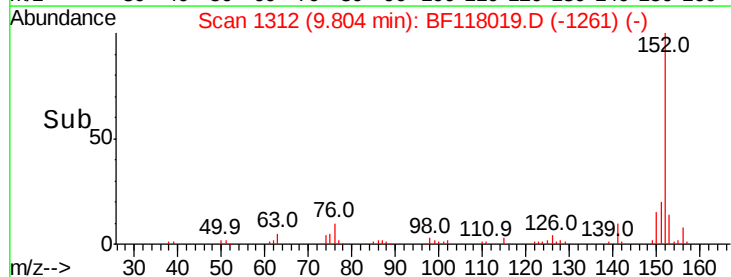
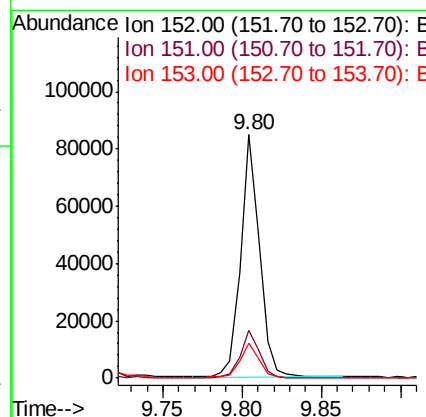
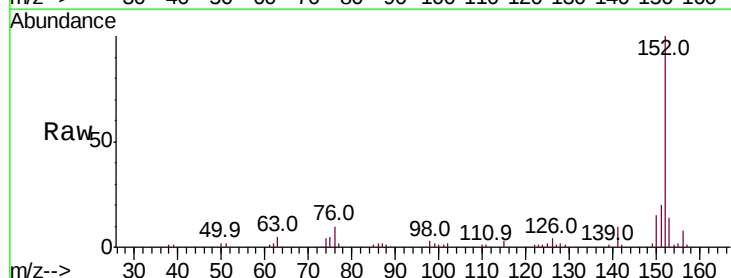
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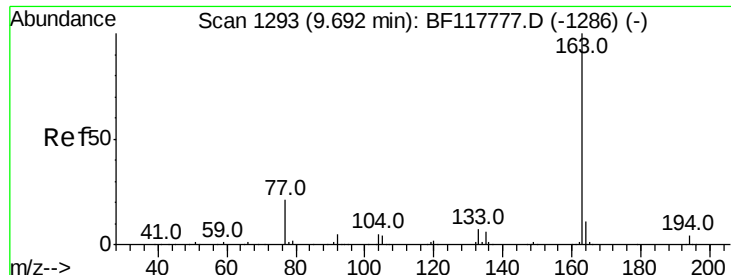
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#49
Acenaphthylene
Concen: 3.912 ng
RT: 9.80 min Scan# 1312
Delta R.T. 0.00 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	70801		
151	19.5		17.0	25.6
153	14.3		11.0	16.6





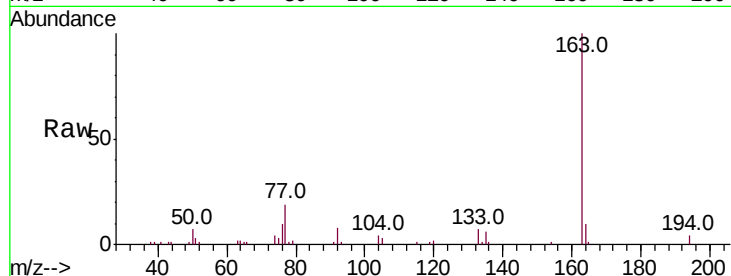
#50
Dimethylphthalate
Concen: 2.332 ng
RT: 9.65 min Scan# 1286
Delta R.T. -0.02 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

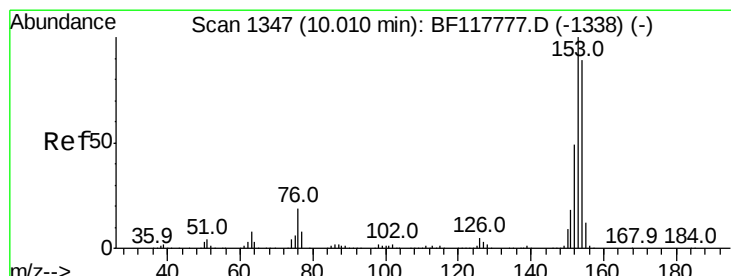
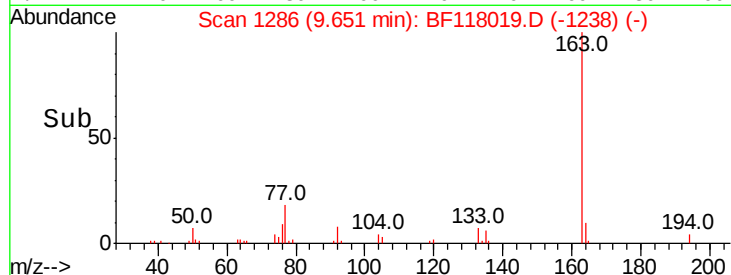
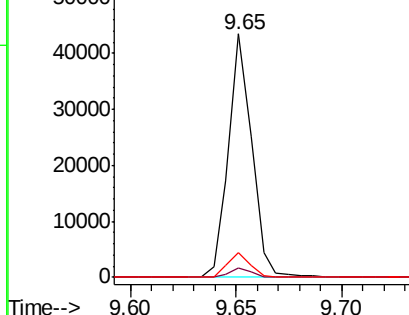
Tot Ion:	163	Resp:	33256
Ion Ratio	Lower	Upper	
163	100		
194	4.0	3.3	4.9
164	10.0	8.7	13.1

Manual Integrations
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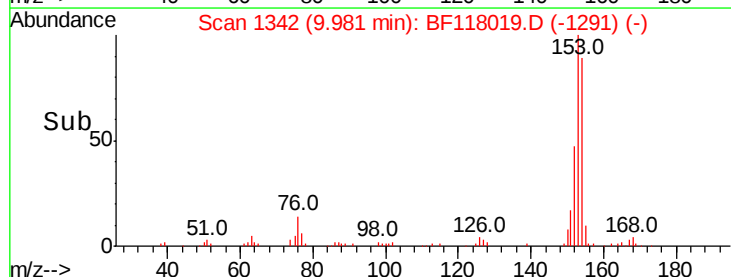
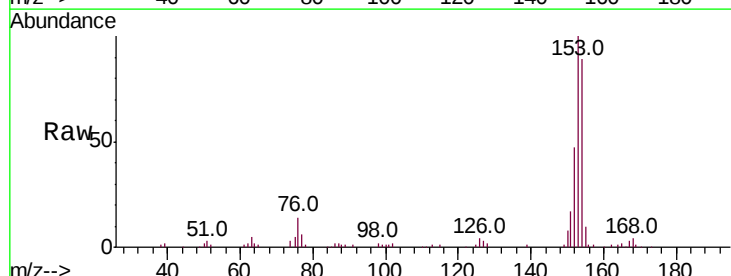
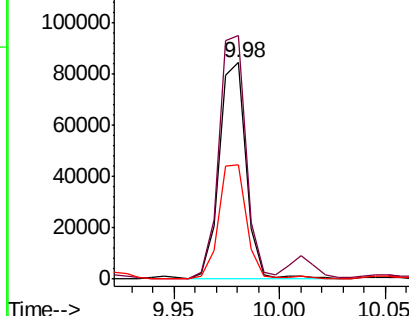
Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

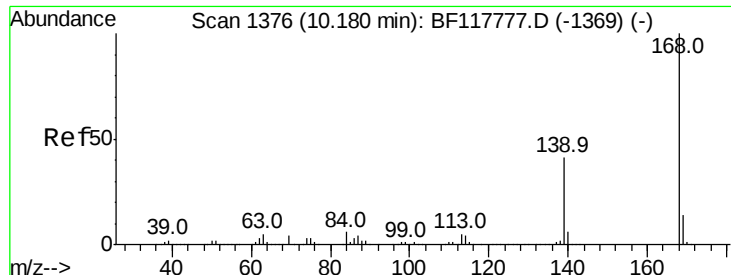


#52
Acenaphthene
Concen: 6.474 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.00 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion:	154	Resp:	75056
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.1	135.1
152	52.7	44.0	66.0

Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#55

Dibenzofuran

Concen: 5.664 ng

RT: 10.15 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

Instrument :

BNA_F

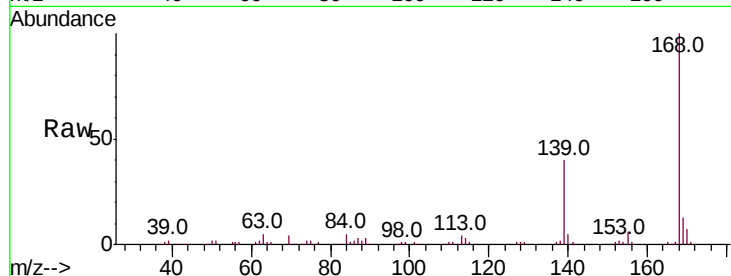
ClientSampleId :

WS-112019-2-5-COMP-B2

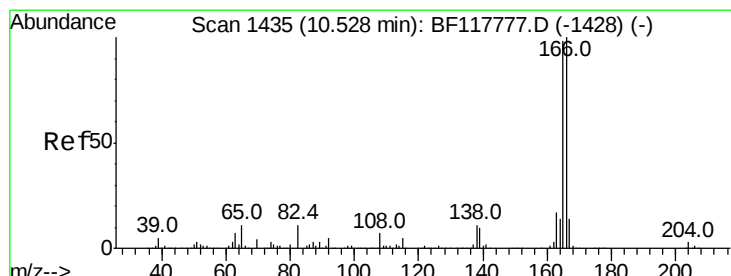
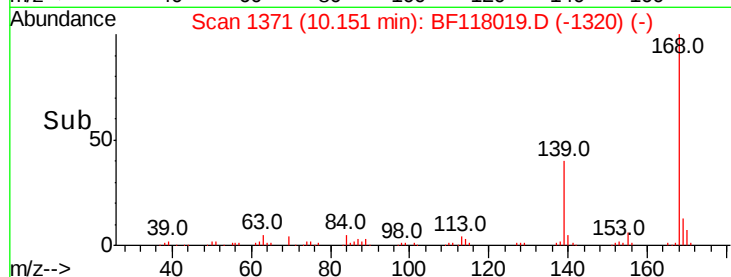
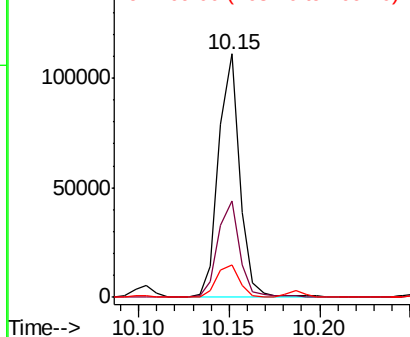
Tot Ion:	168	Resp:	90935
Ion Ratio	Lower	Upper	
168	100		
139	39.6	33.0	49.6
169	13.2	11.5	17.3

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Abundance Ion 168.00 (167.70 to 168.70): E
150000
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



#58

Fluorene

Concen: 6.504 ng

RT: 10.49 min Scan# 1429

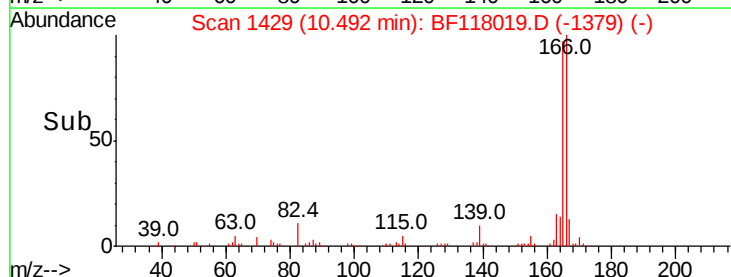
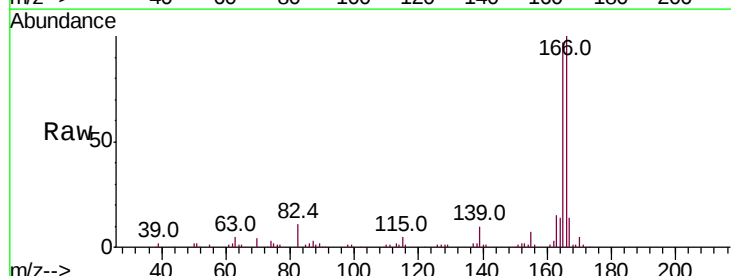
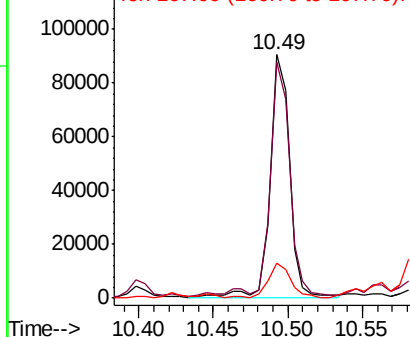
Delta R.T. -0.01 min

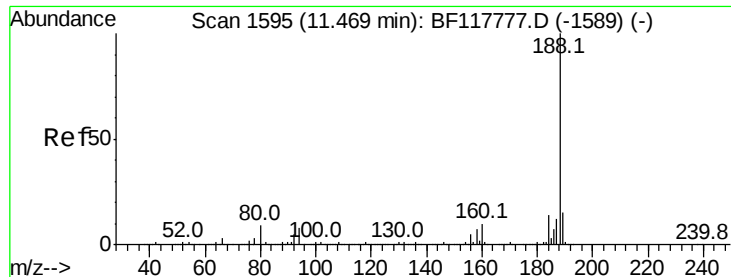
Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

Tgt Ion:	166	Resp:	80919
Ion Ratio	Lower	Upper	
166	100		
165	96.8	78.4	117.6
167	14.1	11.0	16.4

Abundance Ion 166.00 (165.70 to 166.70): E
120000
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





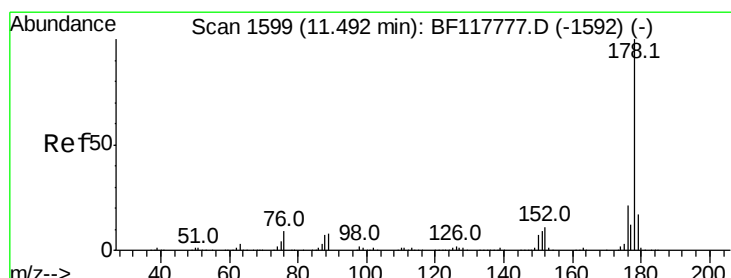
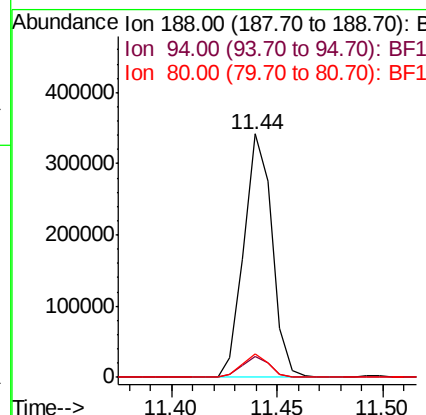
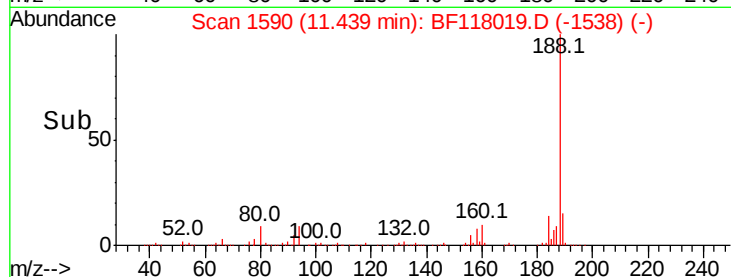
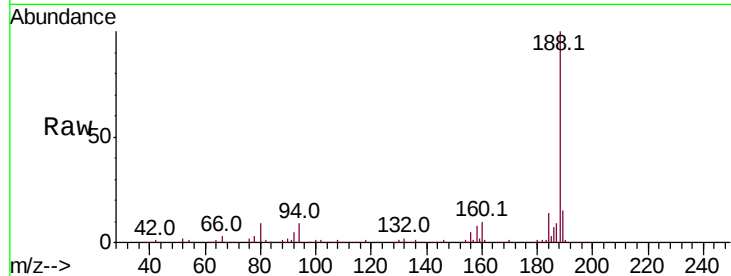
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	8.6	6.6	10.0	
80	9.4	7.2	10.8	

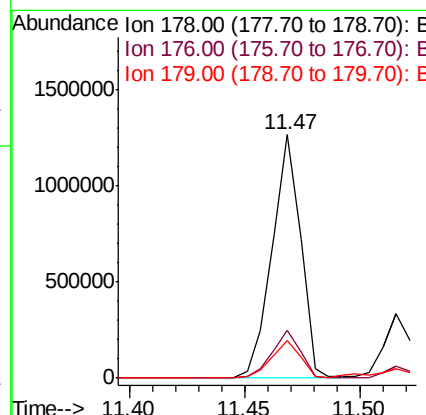
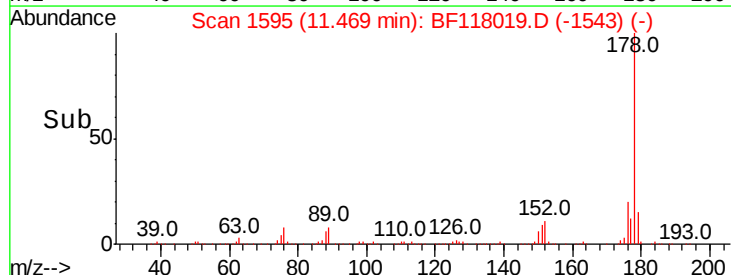
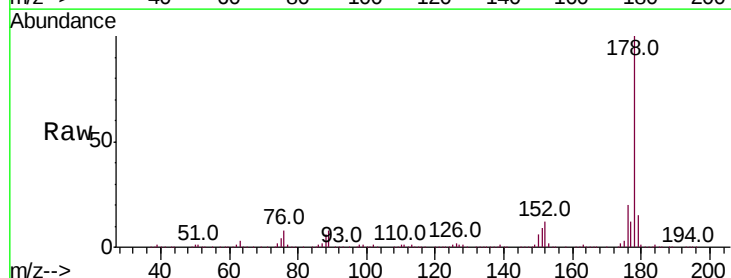
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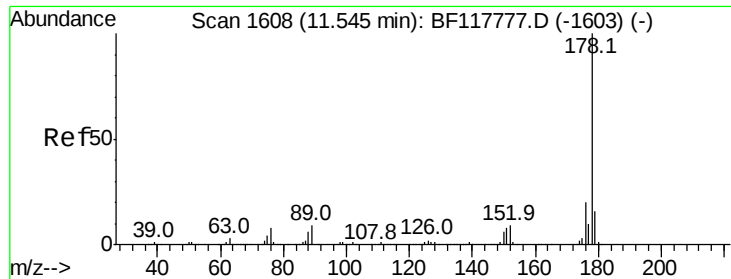
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#71
Phenanthrene
Concen: 68.905 ng
RT: 11.47 min Scan# 1595
Delta R.T. 0.01 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	19.7	16.6	25.0	
179	15.3	13.2	19.8	





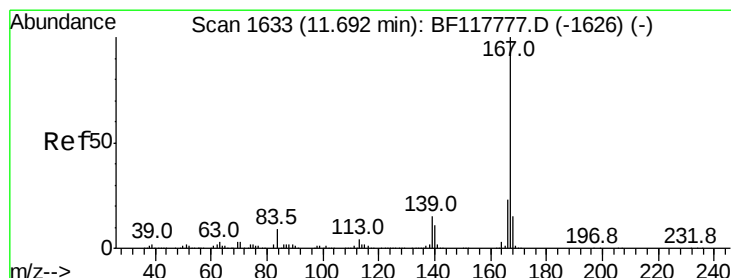
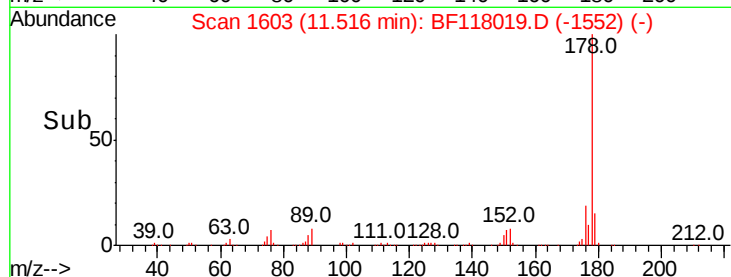
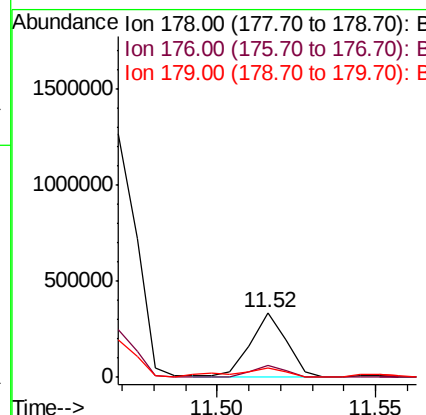
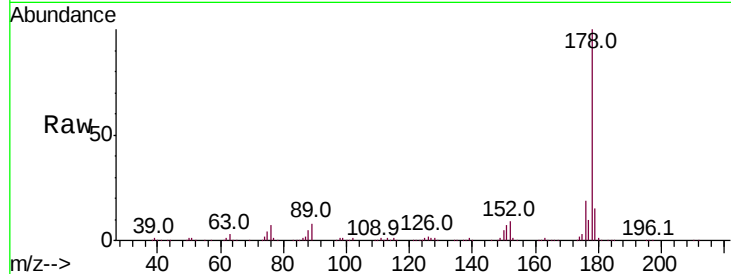
#72
 Anthracene
 Concen: 16.617 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. 0.00 min
 Lab File: BF118019.D
 Acq: 26 Nov 2019 20:48

Instrument :
 BNA_F
 ClientSampleId :
 WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	16.1	24.1
179	15.3	13.0	19.4

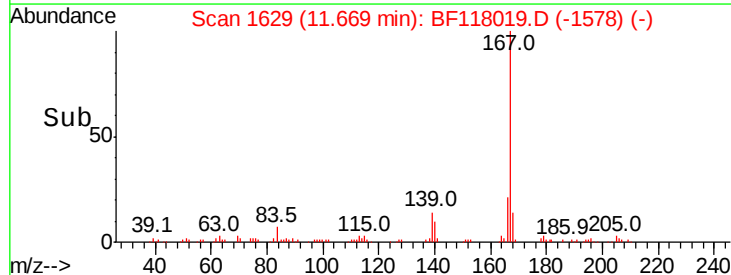
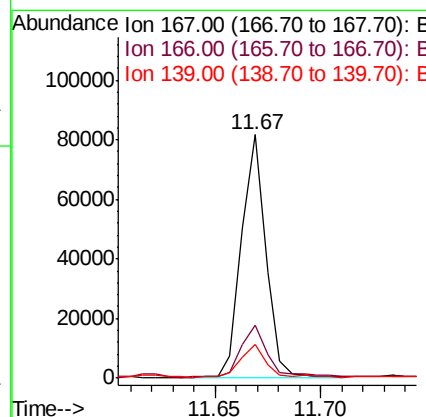
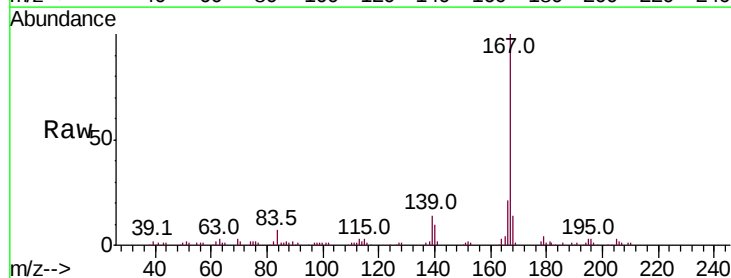
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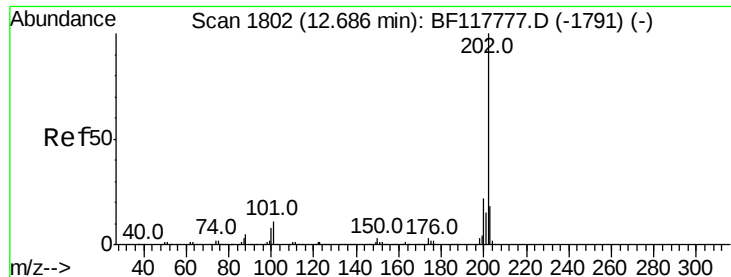
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#73
 Carbazole
 Concen: 4.775 ng
 RT: 11.67 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: BF118019.D
 Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.5	18.0	27.0
139	14.0	11.7	17.5





#75

Fluoranthene

Concen: 97.108 ng

RT: 12.67 min Scan# 1799

Delta R.T. 0.02 min

Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

Instrument :

BNA_F

ClientSampleId :

WS-112019-2-5-COMP-B2

Tot Ion:202 Resp: 1276526

Ion Ratio Lower Upper

202 100

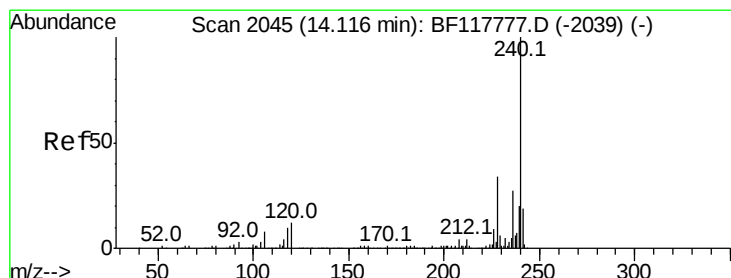
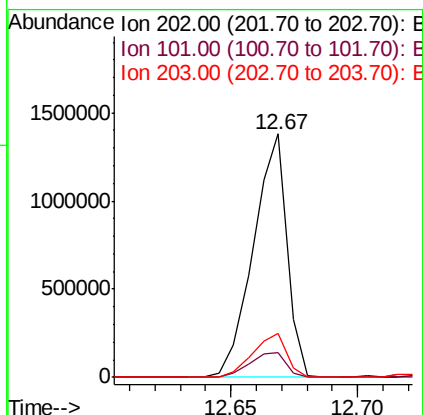
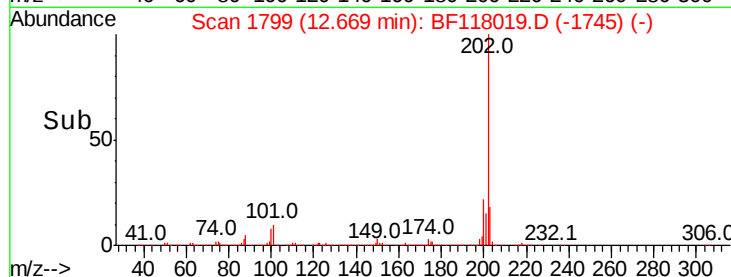
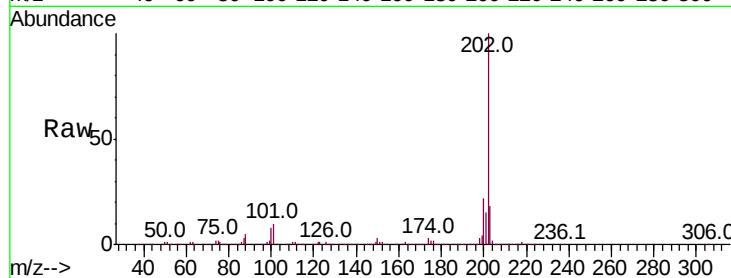
101 10.4 0.0 31.1

203 18.1 0.0 38.2

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#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.10 min Scan# 2042

Delta R.T. 0.01 min

Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

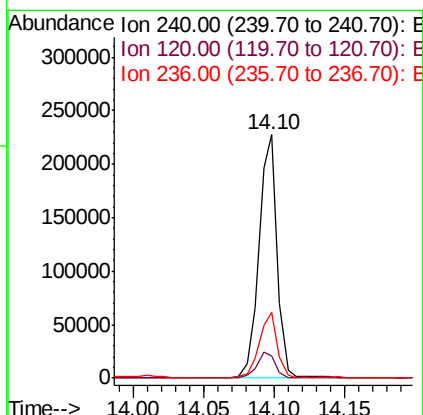
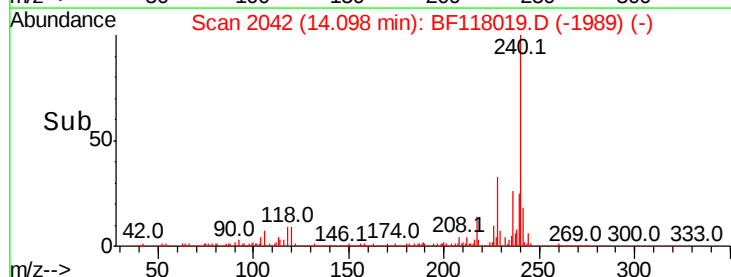
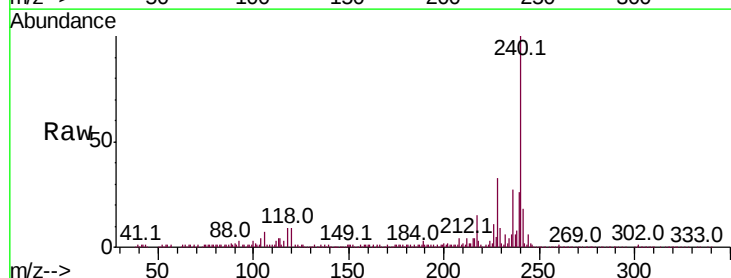
Tgt Ion:240 Resp: 205763

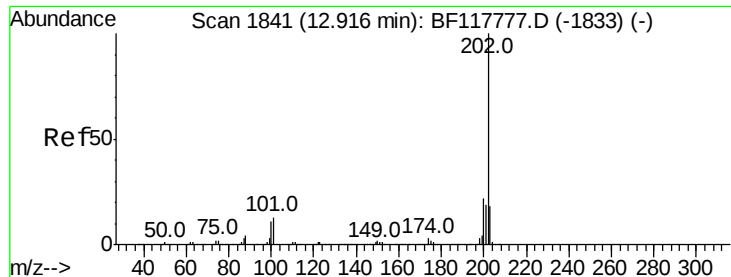
Ion Ratio Lower Upper

240 100

120 9.4 9.5 14.3#

236 26.8 21.3 31.9





#78

Pvrene

Concen: 73.592 ng

RT: 12.90 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

Instrument :

BNA_F

ClientSampleId :

WS-112019-2-5-COMP-B2

Tot Ion:202 Resp: 1223746

Ion Ratio Lower Upper

202 100

200 21.2 17.8 26.8

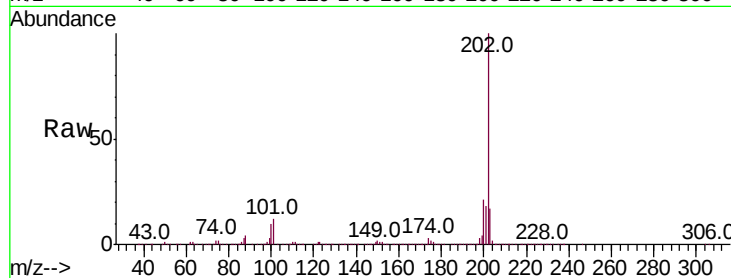
203 17.4 14.6 22.0

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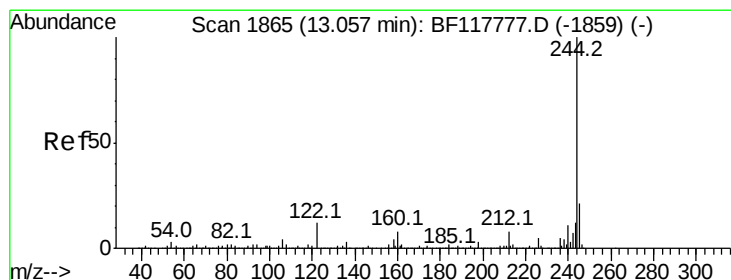
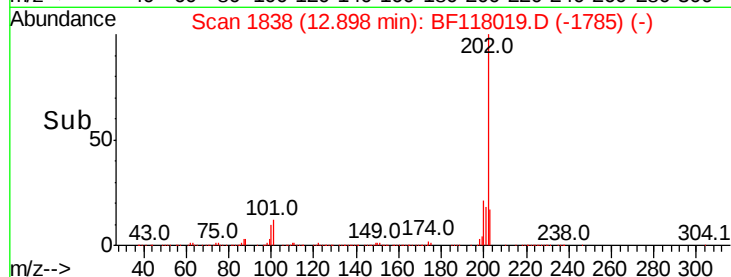
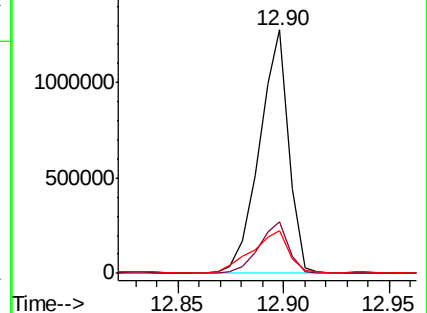
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 13.886 ng

RT: 13.03 min Scan# 1860

Delta R.T. 0.00 min

Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

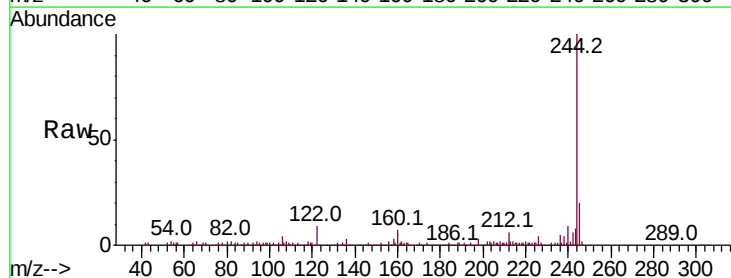
Tgt Ion:244 Resp: 156339

Ion Ratio Lower Upper

244 100

212 6.5 6.3 9.5

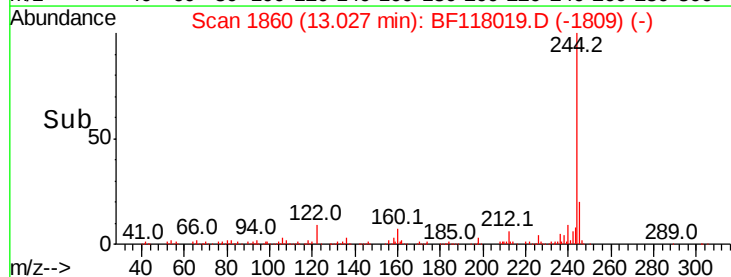
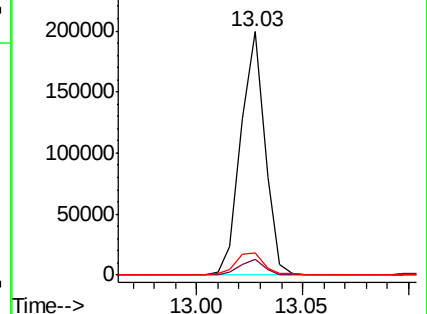
122 9.3 9.4 14.2#

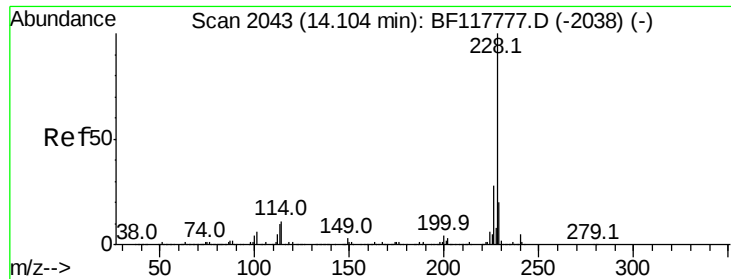


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





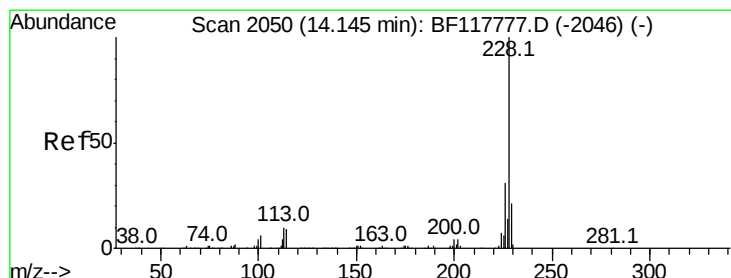
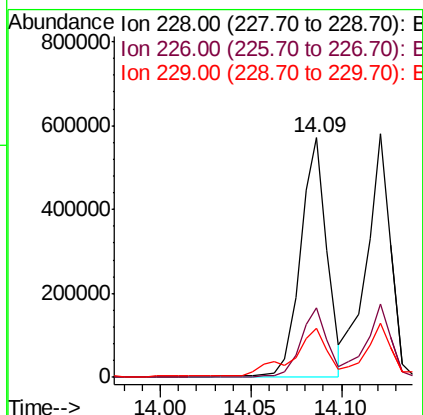
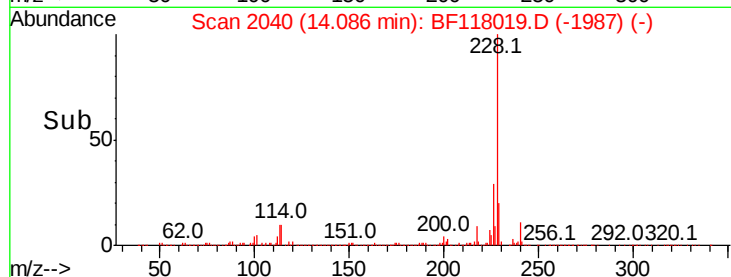
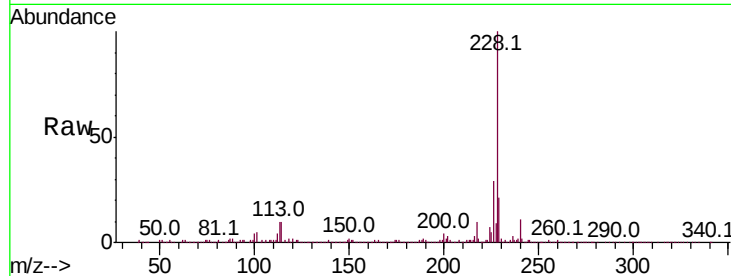
#81
Benzo(a)anthracene
Concen: 42.781 ng
RT: 14.09 min Scan# 2040
Delta R.T. 0.01 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.2	33.2
229	20.6	15.9	23.9

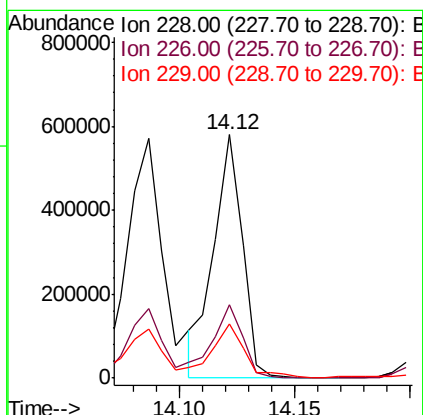
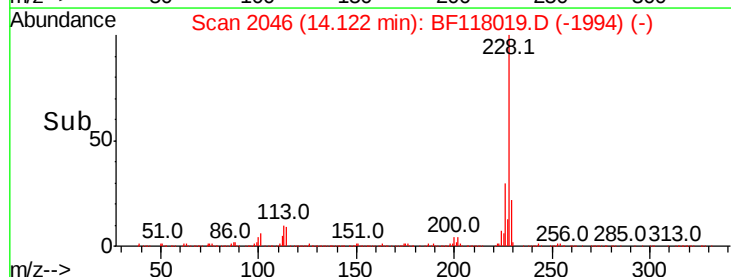
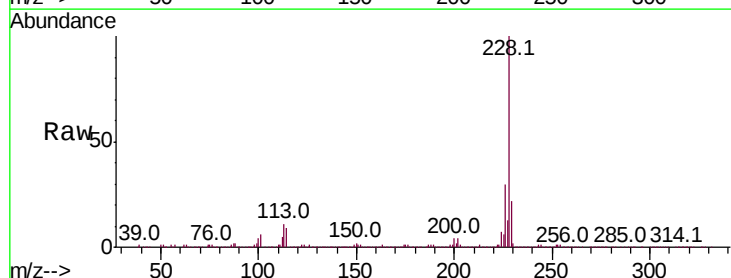
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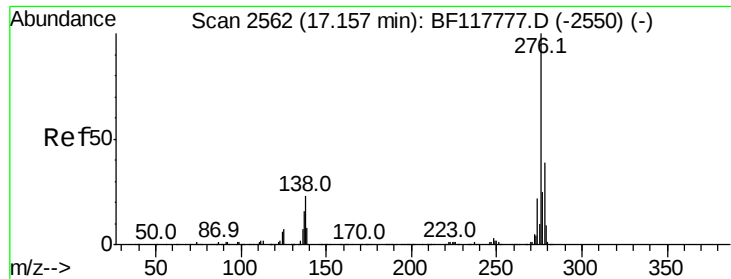
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#83
Chrysene
Concen: 37.874 ng
RT: 14.12 min Scan# 2046
Delta R.T. 0.01 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.0	37.4
229	22.0	16.6	25.0





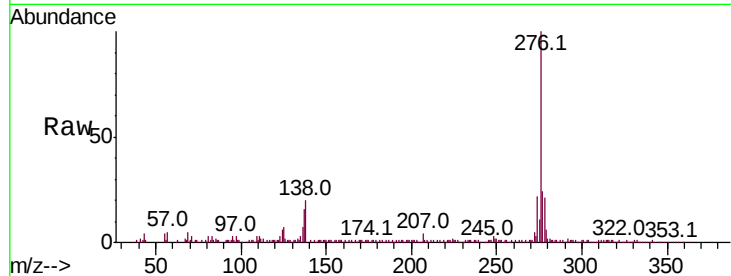
#86
Indeno(1,2,3-cd)pyrene
Concen: 17.261 ng
RT: 17.13 min Scan# 2557
Delta R.T. 0.03 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

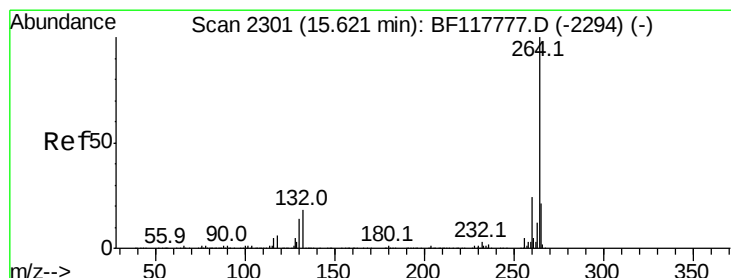
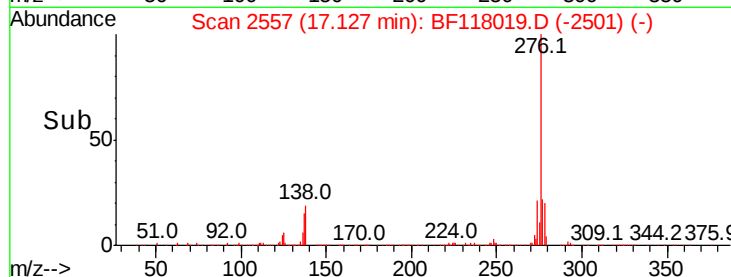
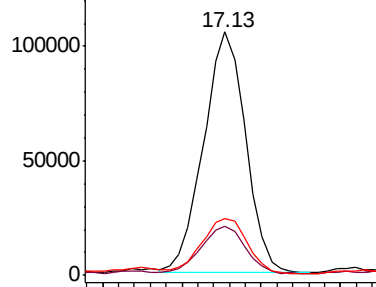
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.7	20.9	31.3#
277	24.8	20.3	30.5

Manual Integrations
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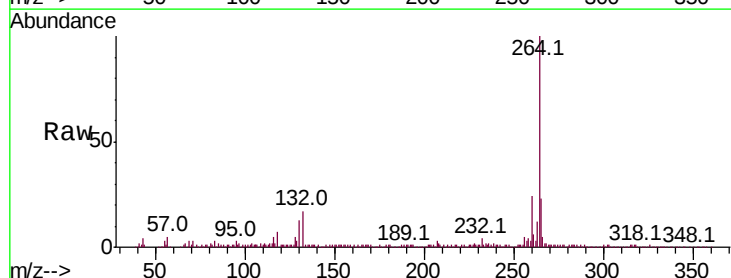


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

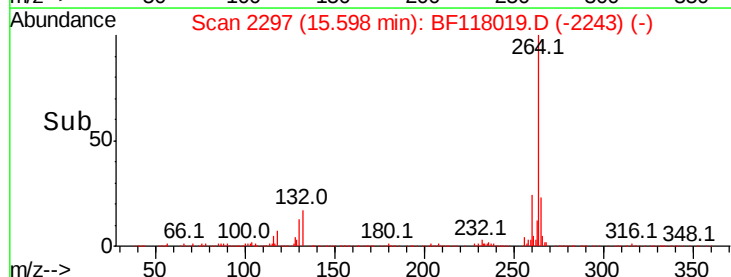
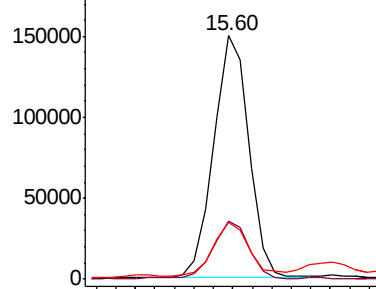


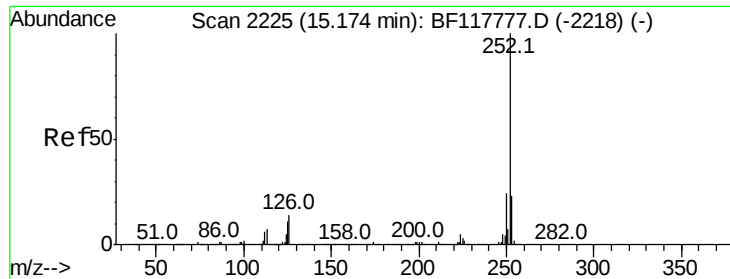
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.60 min Scan# 2297
Delta R.T. 0.02 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.4	29.0
265	23.0	17.1	25.7



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





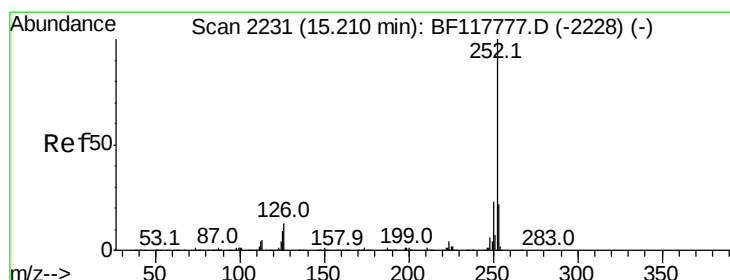
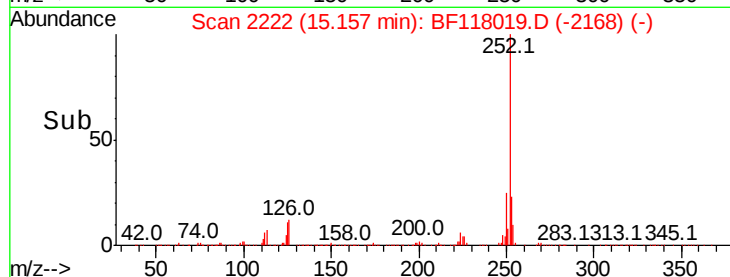
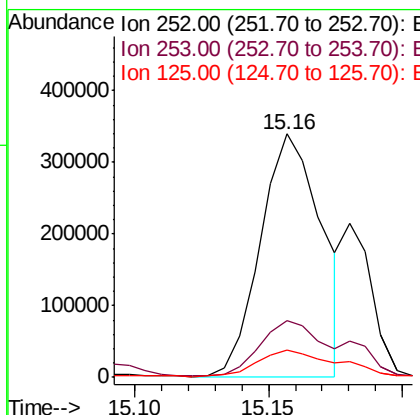
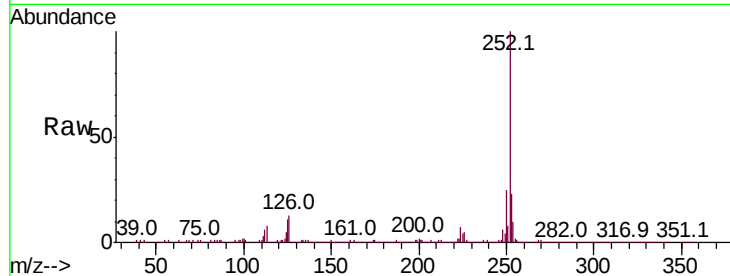
#88
Benzo(b)fluoranthene
Concen: 44.402 ng m
RT: 15.16 min Scan# 2222
Delta R.T. 0.02 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	11.0	8.6	13.0

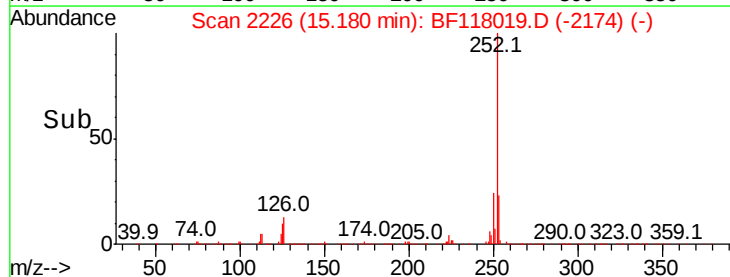
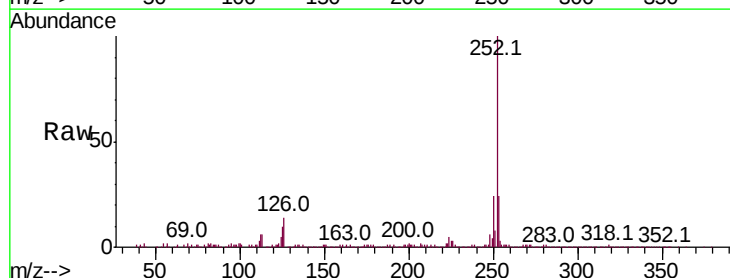
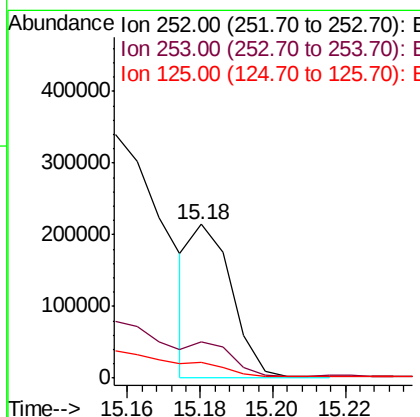
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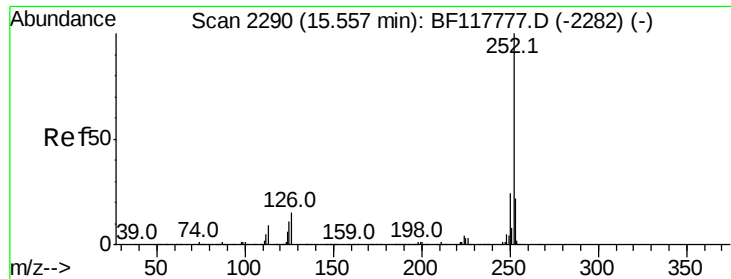
jagrut
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#89
Benzo(k)fluoranthene
Concen: 14.367 ng m
RT: 15.18 min Scan# 2226
Delta R.T. 0.01 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	10.3	7.9	11.9





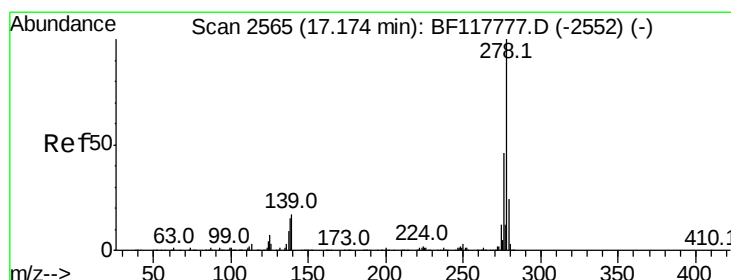
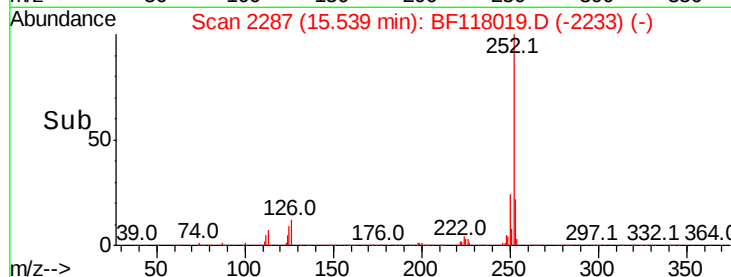
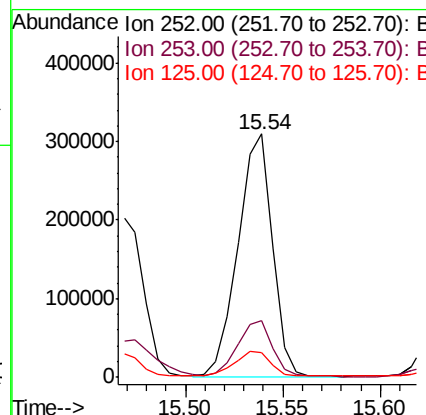
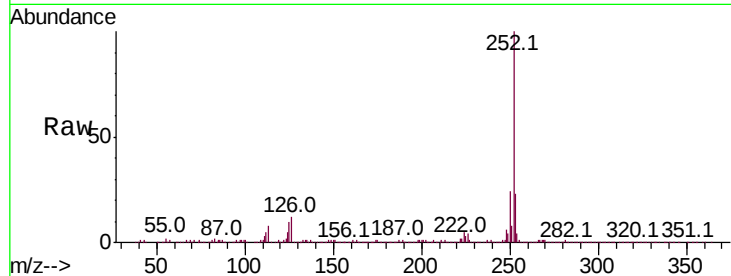
#90
Benzo(a)pyrene
Concen: 35.048 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.02 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.6
125	10.1	9.2	13.8

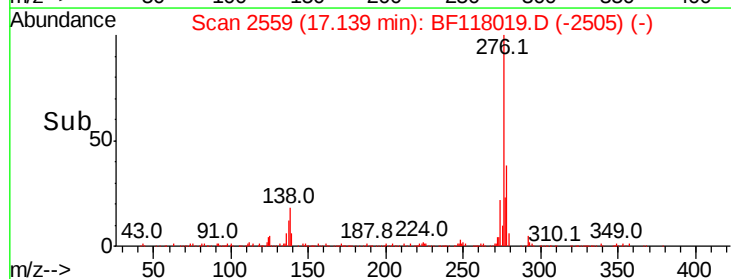
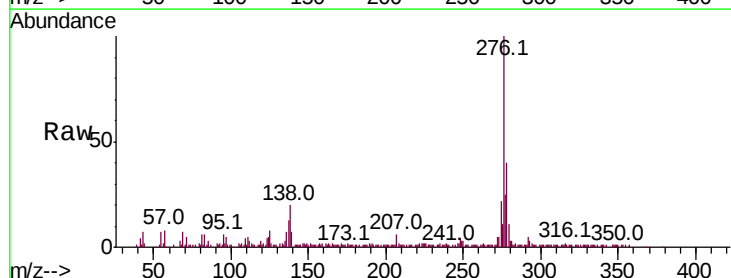
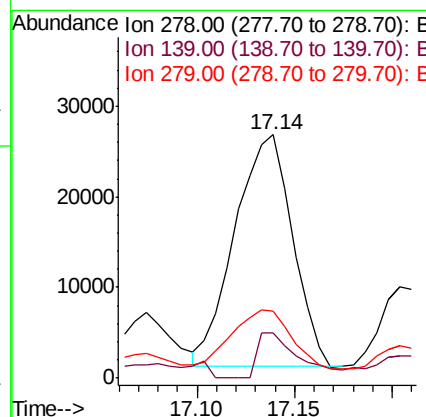
Manual Integrations
APPROVED

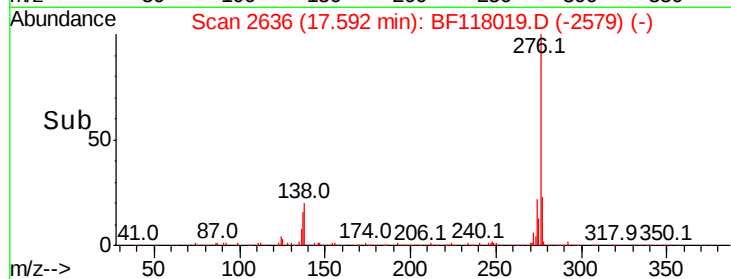
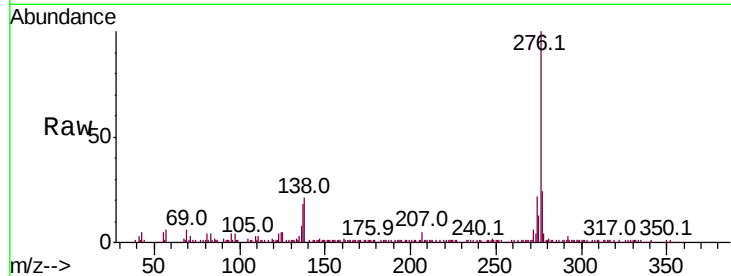
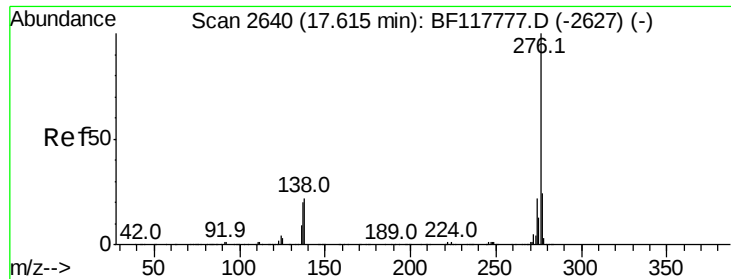
jagrut
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#91
Dibenzo(a,h)anthracene
Concen: 5.632 ng
RT: 17.14 min Scan# 2559
Delta R.T. 0.02 min
Lab File: BF118019.D
Acq: 26 Nov 2019 20:48

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.5	13.8	20.8
279	27.5	19.6	29.4





#92

Benzo(a,h,i)perylene

Concen: 19.412 ng

RT: 17.59 min Scan# 2636

Delta R.T. 0.04 min

Lab File: BF118019.D

Acq: 26 Nov 2019 20:48

Instrument :

BNA_F

ClientSampleId :

WS-112019-2-5-COMP-B2

Tot Ion:	276	Resp:	178195
Ion Ratio	Lower	Upper	
276	100		
277	24.4	18.9	28.3
138	21.0	17.4	26.2

Manual Integrations
APPROVED

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