

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
 Data File : BF118350.D
 Acq On : 27 Dec 2019 21:02
 Operator : JU
 Sample : K6395-03DL 4X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Manual Integrations
 APPROVED

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Quant Time: Dec 28 02:44:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 15:58:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	135606	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	522564	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	243089	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	390372	20.00	ng	0.00
76) Chrysene-d12	14.05	240	344507	20.00	ng	0.00
87) Perylene-d12	15.54	264	324754	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	159541	20.08	ng	0.00
7) Phenol-d6	6.48	99	204871	20.79	ng	0.00
23) Nitrobenzene-d5	7.42	82	116509	12.75	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	50230	16.73	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	234457	14.72	ng	0.00
79) Terphenyl-d14	12.98	244	232940	11.22	ng	0.00
Target Compounds						
31) Naphthalene	8.16	128	79195	2.982	ng	Qvalue 97
52) Acenaphthene	9.93	154	66967	4.790	ng	96
55) Dibenzofuran	10.10	168	64123	3.104	ng	97
58) Fluorene	10.45	166	82573	4.952	ng	95
71) Phenanthrene	11.42	178	1052832	49.473	ng	100
72) Anthracene	11.47	178	263997	12.394	ng	100
73) Carbazole	11.63	167	112940	5.975	ng	98
75) Fluoranthene	12.62	202	1434307	66.783	ng	99
78) Pyrene	12.85	202	1227966	43.649	ng	99
81) Benzo(a)anthracene	14.04	228	742837	30.805	ng	99
83) Chrysene	14.07	228	622393	26.955	ng	97
86) Indeno(1,2,3-cd)pyrene	17.05	276	224556	11.414	ng	96
88) Benzo(b)fluoranthene	15.11	252	808420m	37.501	ng	
89) Benzo(k)fluoranthene	15.13	252	198554m	9.593	ng	
90) Benzo(a)pyrene	15.48	252	500638	26.363	ng	98
91) Dibenzo(a,h)anthracene	17.05	278	66218	4.018	ng	# 82
92) Benzo(a,h,i)perylene	17.51	276	203449	12.780	ng	100

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

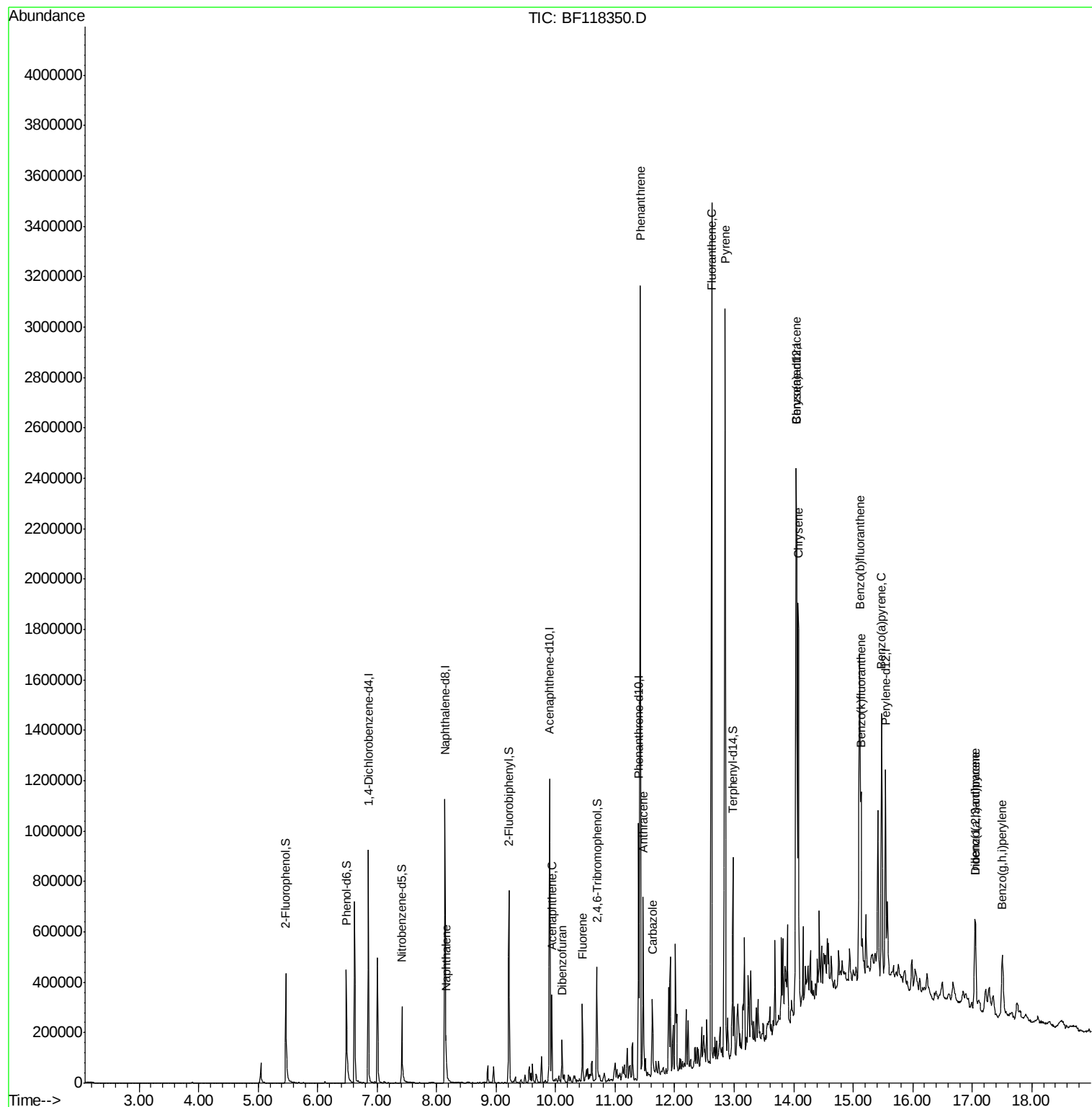
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
Data File : BF118350.D
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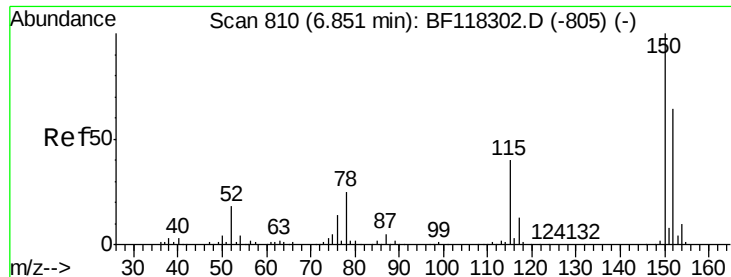
Instrument :
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Quant Time: Dec 28 02:44:00 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
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#1

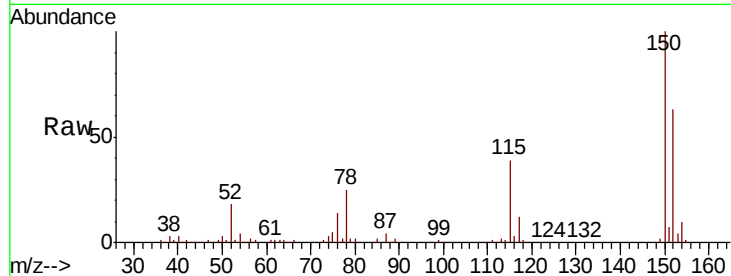
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.5	125.4	188.2
115	62.0	50.2	75.4

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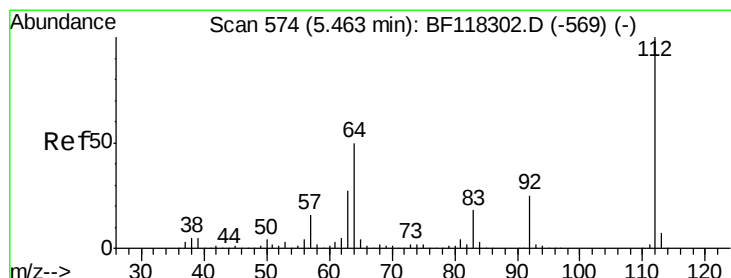
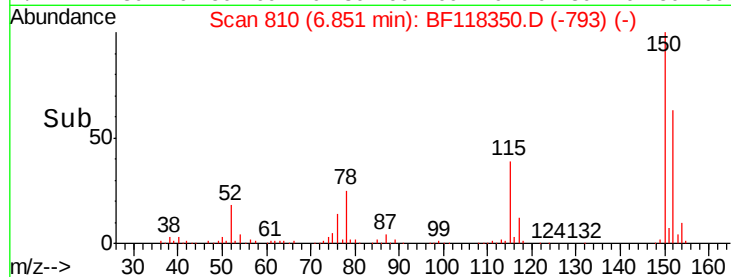
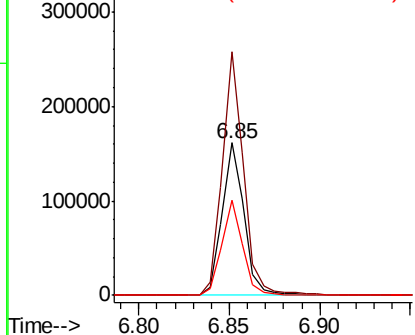


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

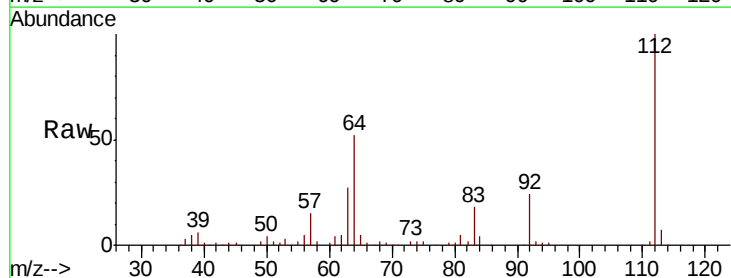
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 20.083 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.7	39.7	59.5
63	26.9	21.7	32.5

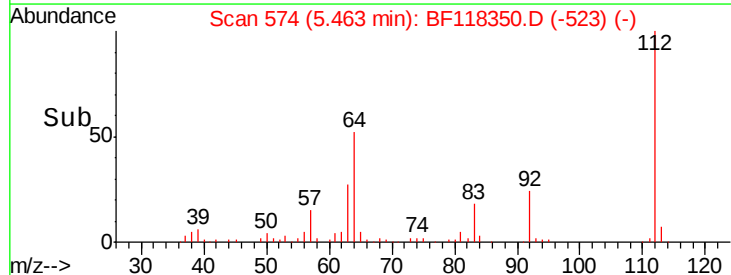
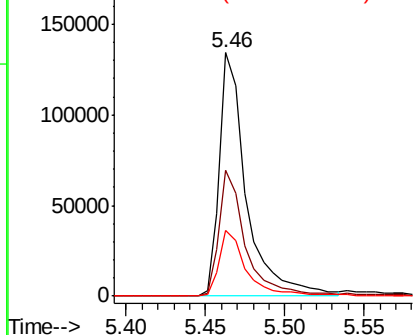


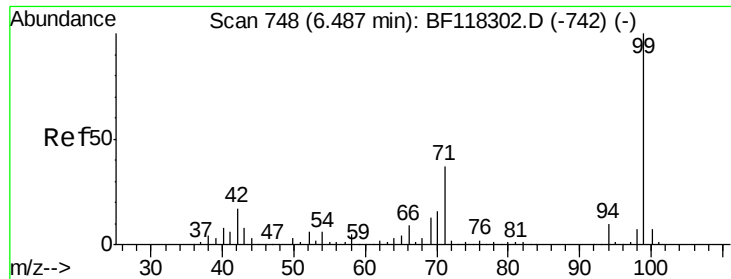
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 20.789 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF118350.D

Acq: 27 Dec 2019 21:02

Instrument :

BNA_F

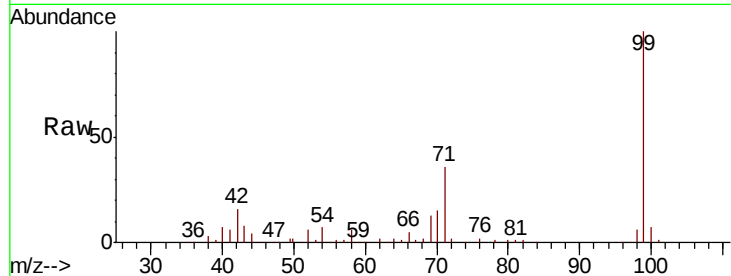
ClientSampled :

TP-4DL

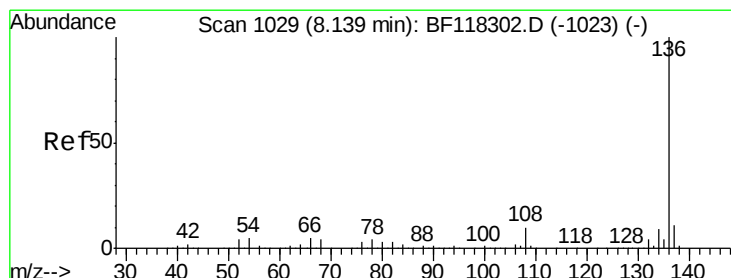
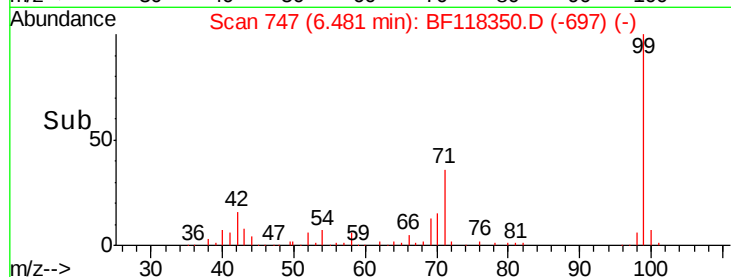
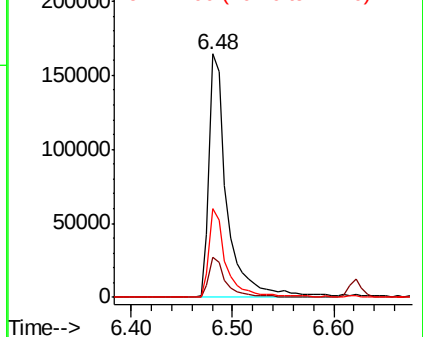
Tot Ion:	99	Resp:	204871
Ion Ratio	Lower	Upper	
99	100		
42	16.3	13.5	20.3
71	36.4	29.4	44.2

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

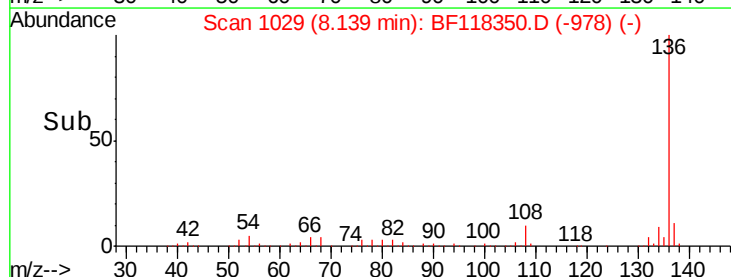
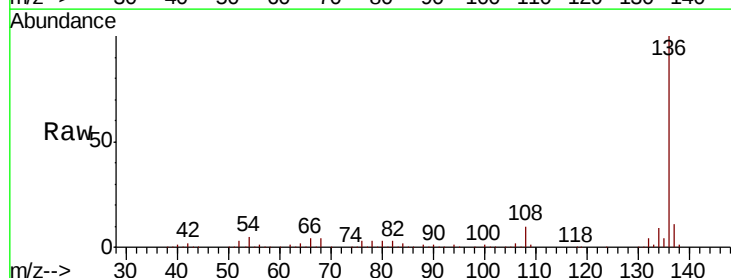
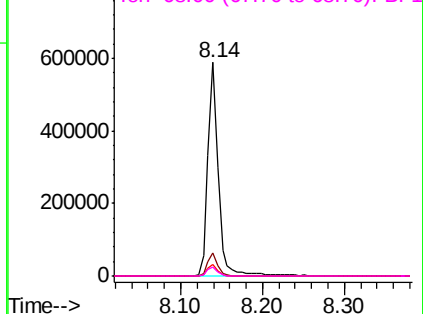
Delta R.T. -0.00 min

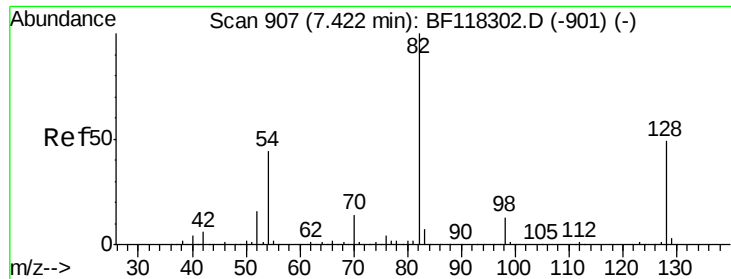
Lab File: BF118350.D

Acq: 27 Dec 2019 21:02

Tgt Ion:	136	Resp:	522564
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	5.5	4.2	6.4
68	4.3	3.5	5.3

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





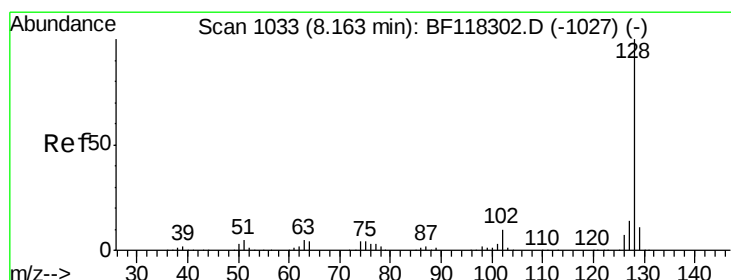
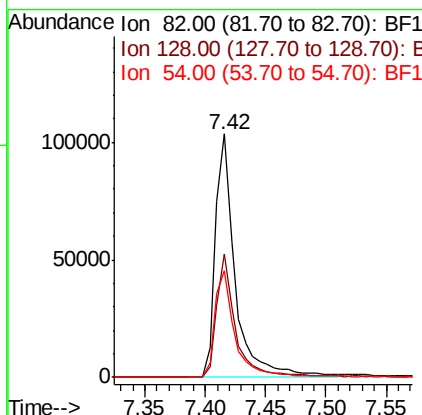
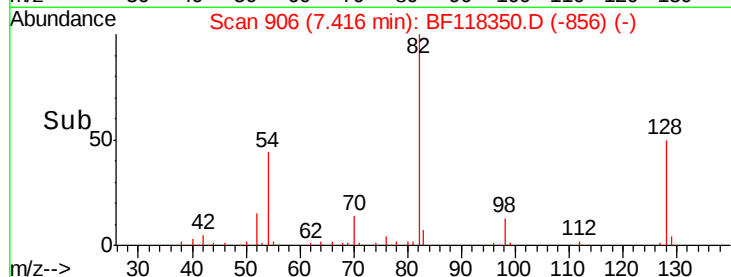
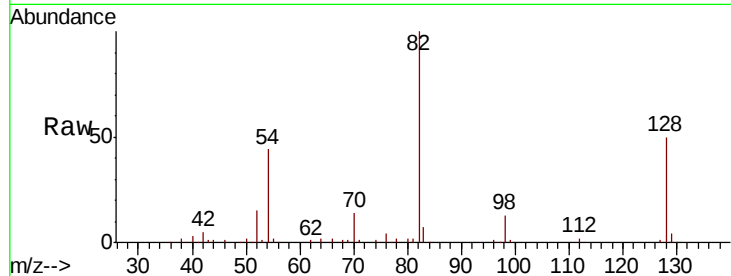
#23
Nitrobenzene-d5
Concen: 12.752 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	50.4	39.6	59.4
54	43.6	34.9	52.3

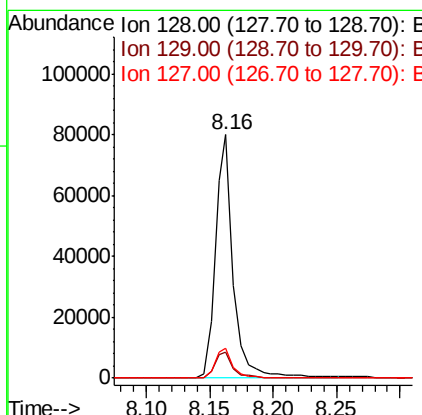
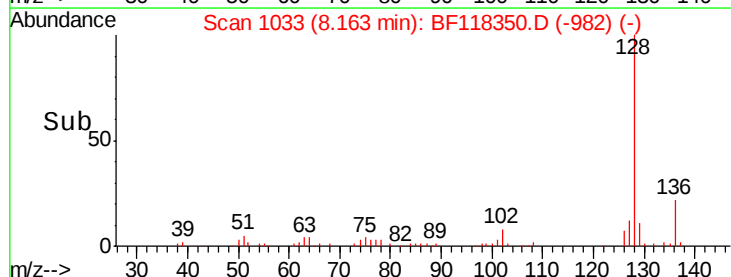
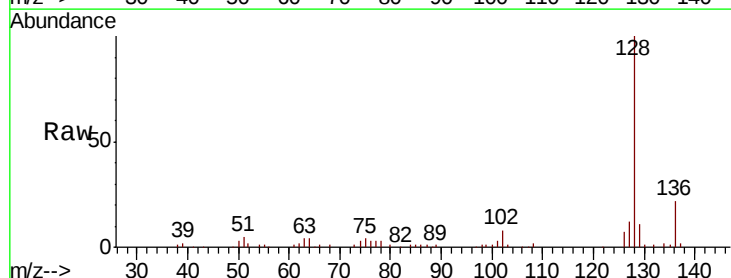
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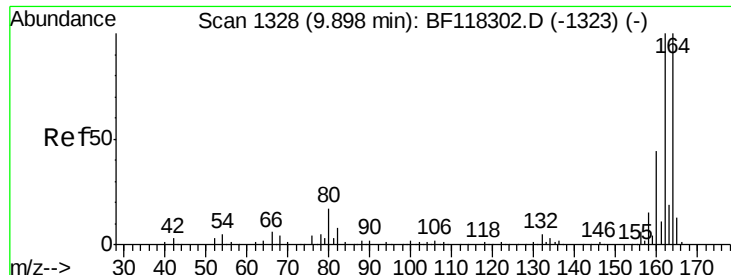
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#31
Naphthalene
Concen: 2.982 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.0	13.4
127	12.3	11.0	16.4





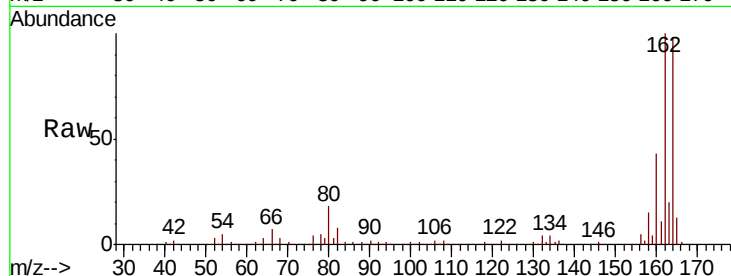
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.0	120.0
160	44.4	34.8	52.2

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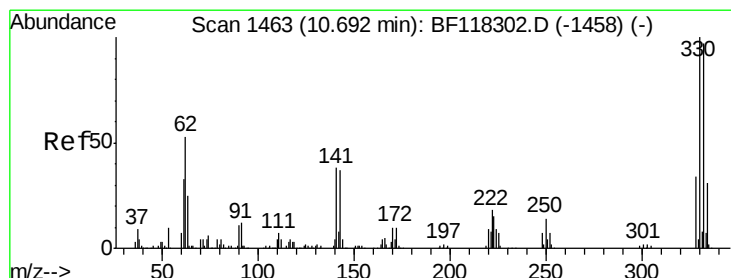
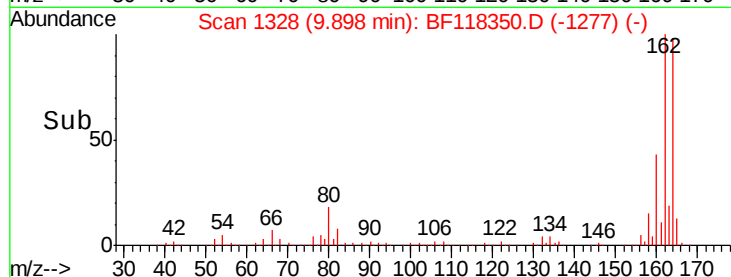
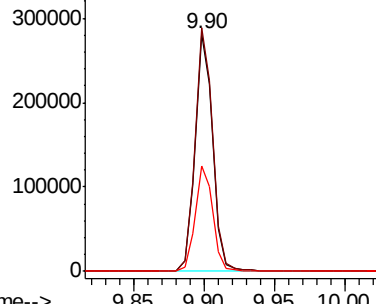


Abundance

Ion 164.00 (163.70 to 164.70): E

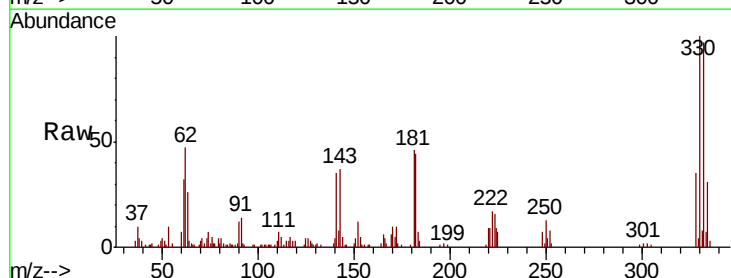
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 16.732 ng
RT: 10.69 min Scan# 1463
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.4	76.6	114.8
141	36.2	26.0	39.0

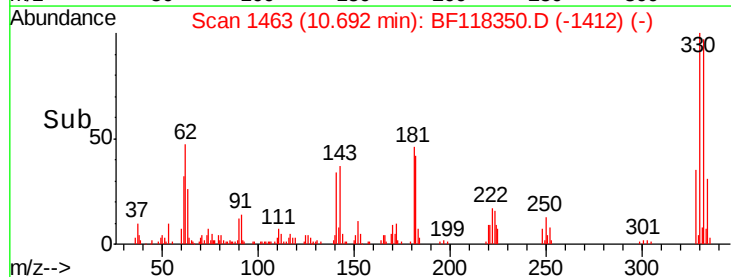
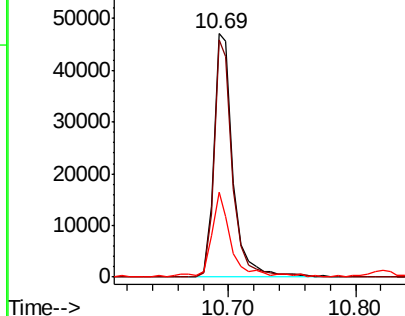


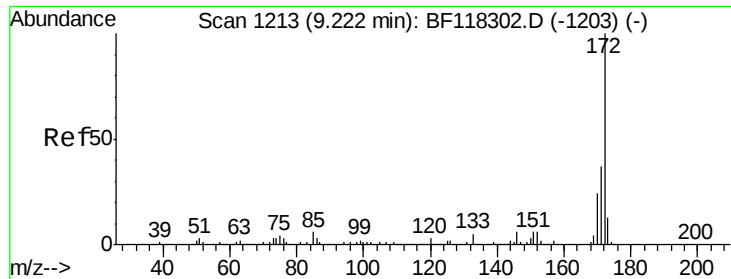
Abundance

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





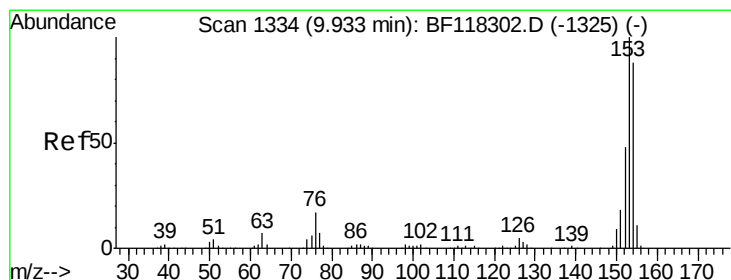
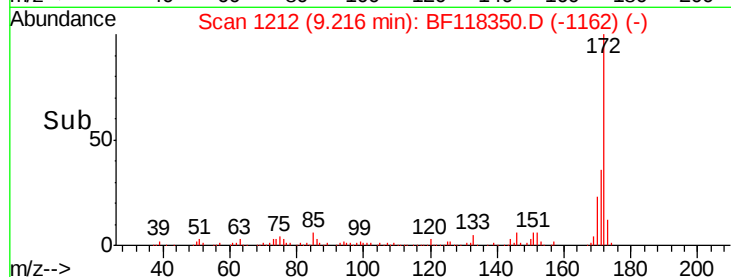
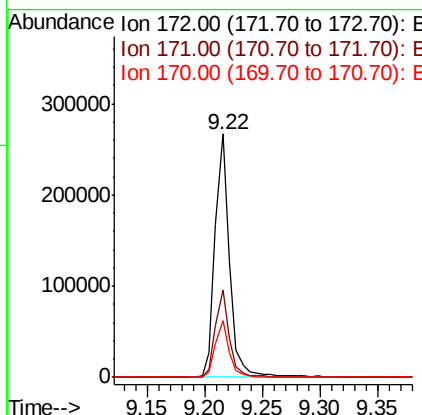
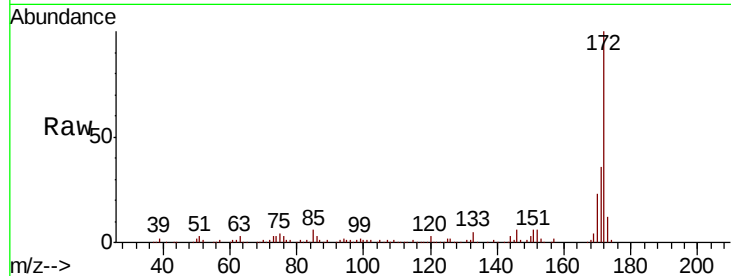
#45
2-Fluorobiphenyl
Concen: 14.723 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.3	43.9
170	23.4	19.2	28.8

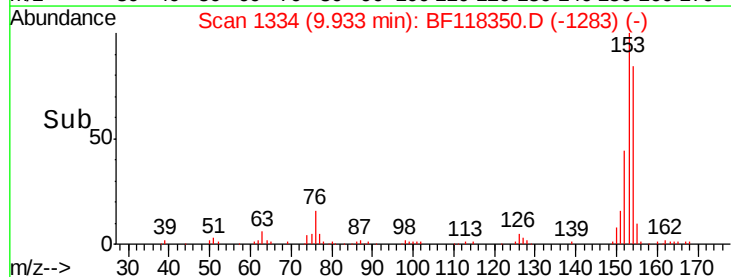
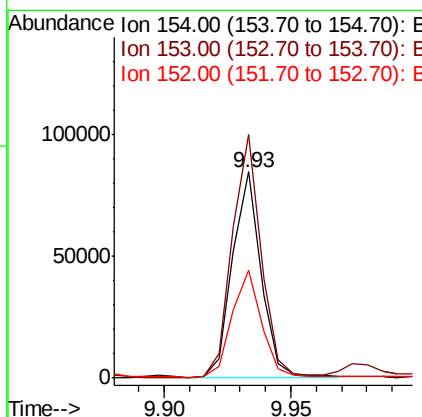
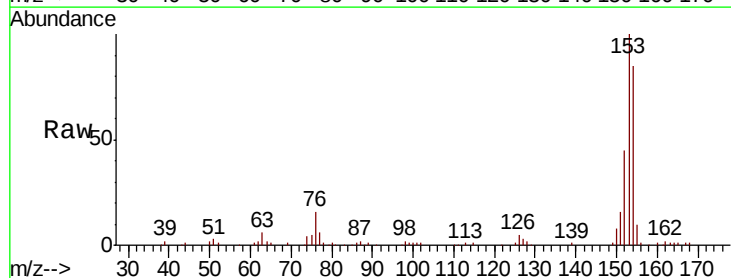
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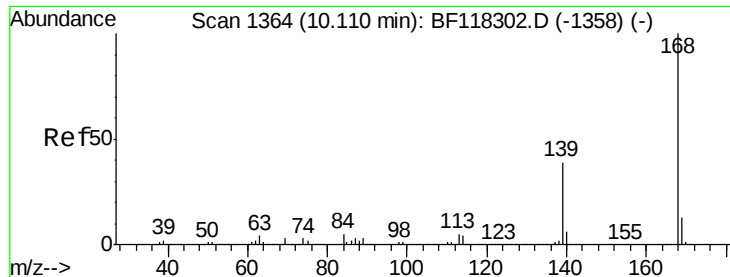
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#52
Acenaphthene
Concen: 4.790 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.0	90.6	136.0
152	52.6	43.1	64.7





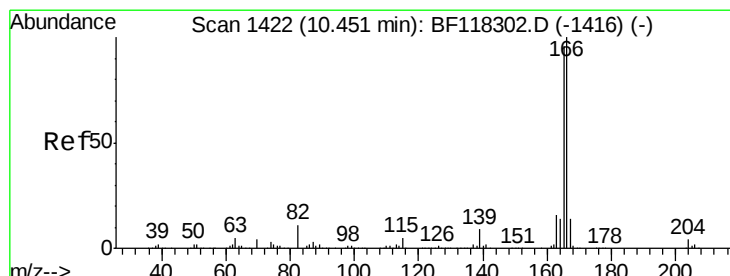
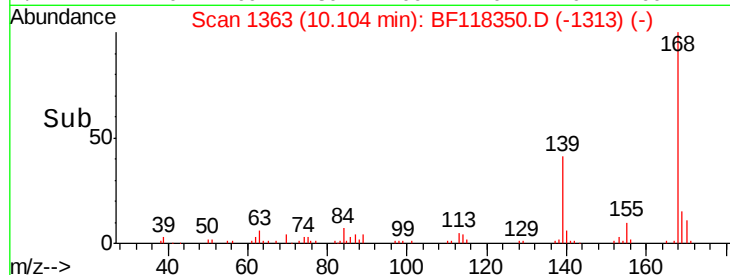
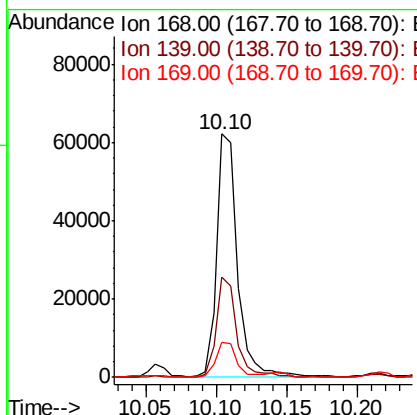
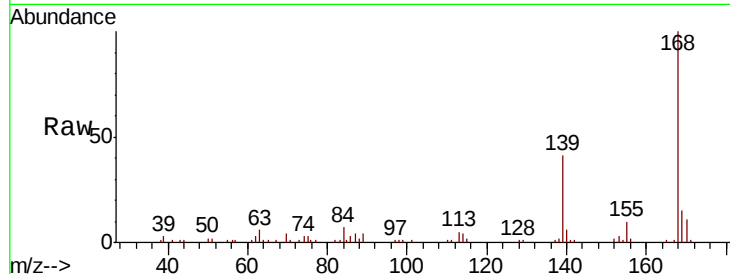
#55
Dibenzenofuran
Concen: 3.104 ng
RT: 10.10 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion:168	Resp:	64123
Ion Ratio	Lower	Upper
168	100	
139	41.0	31.5 47.3
169	14.6	10.4 15.6

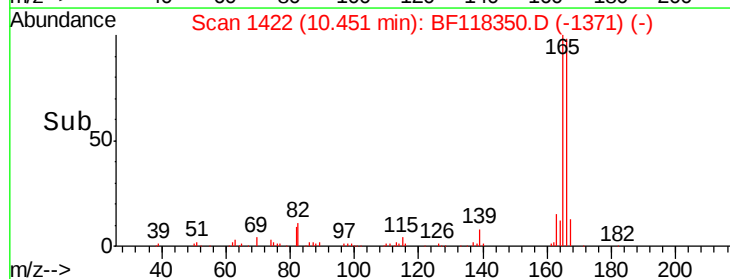
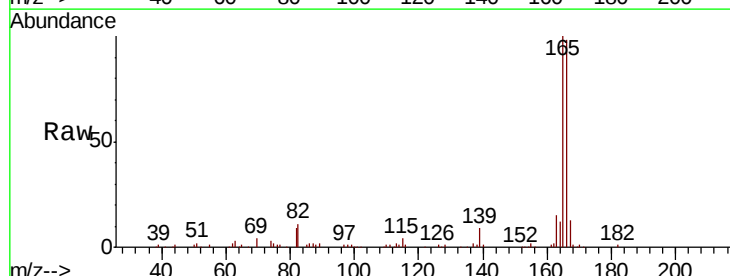
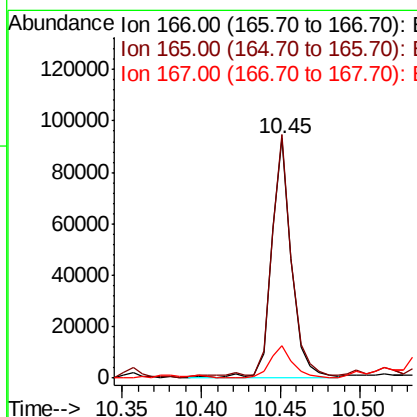
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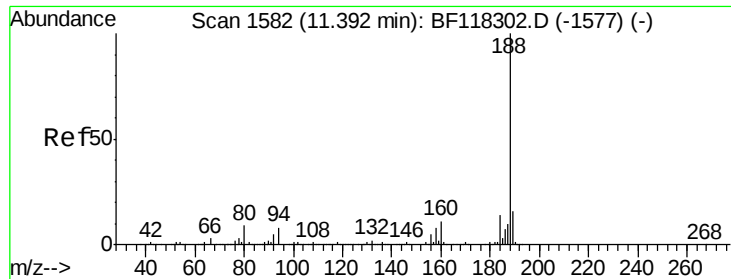
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#58
Fluorene
Concen: 4.952 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion:166	Resp:	82573
Ion Ratio	Lower	Upper
166	100	
165	101.7	77.0 115.4
167	13.4	10.9 16.3





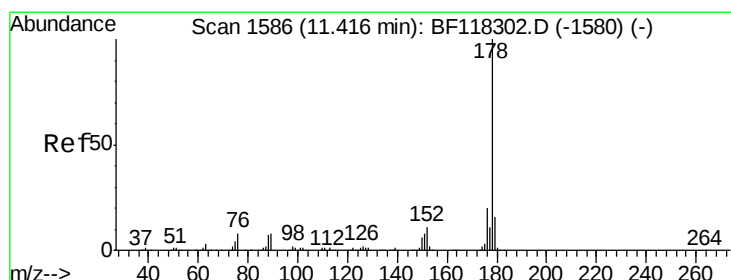
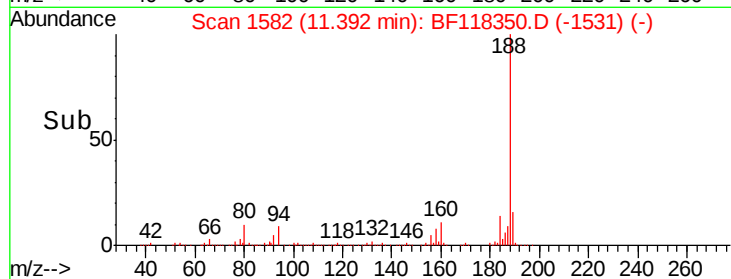
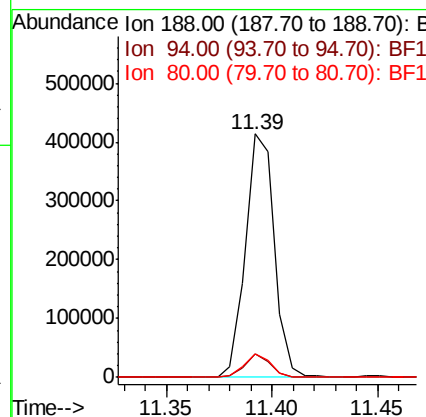
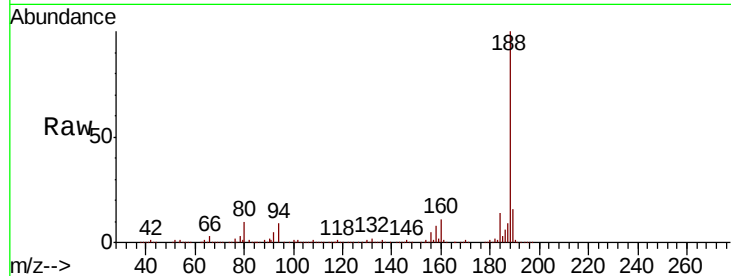
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	390372		
94	9.5	6.7	10.1	
80	9.8	7.2	10.8	

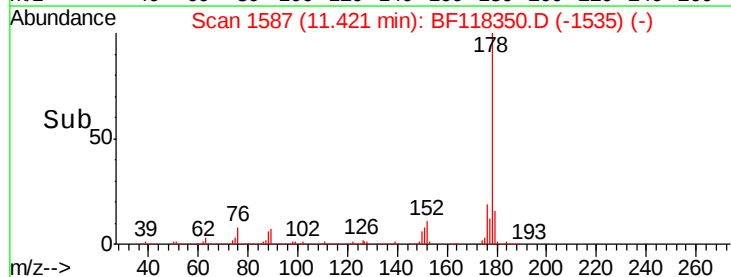
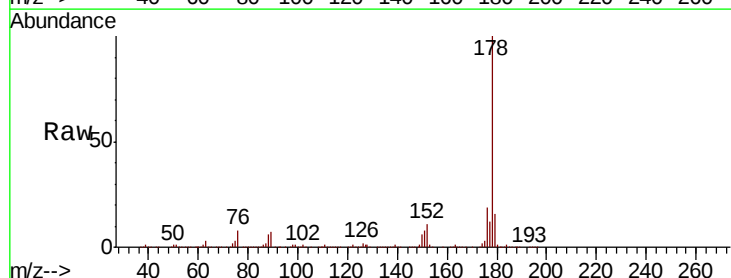
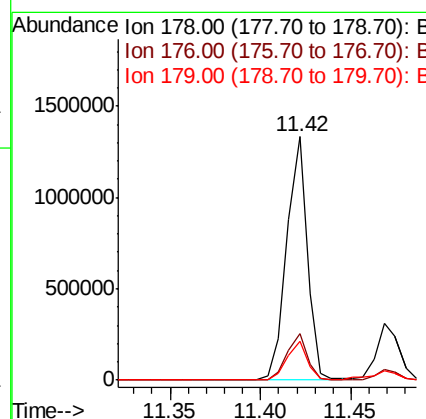
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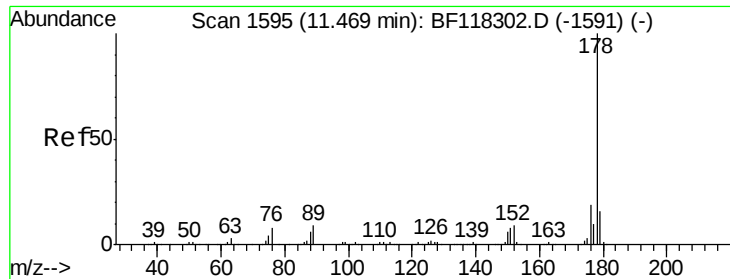
mohammad
12/30/2019 2:08:12 PM



#71
Phenanthrene
Concen: 49.473 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1052832		
176	19.2	15.6	23.4	
179	15.9	12.6	19.0	





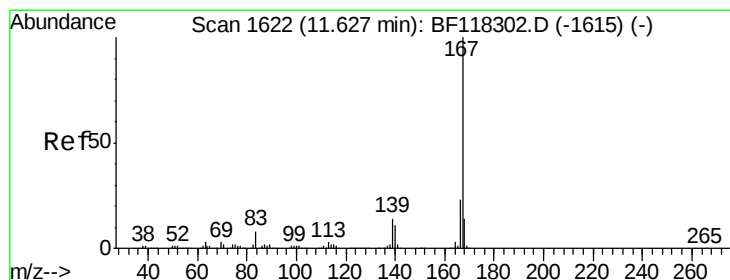
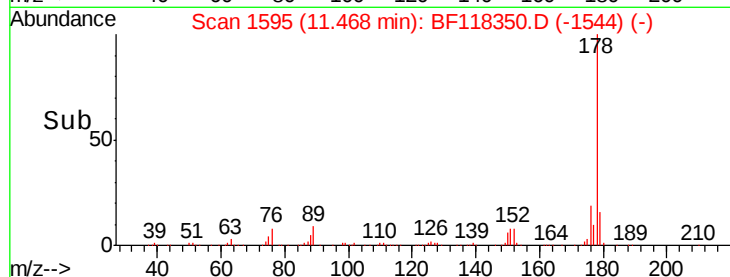
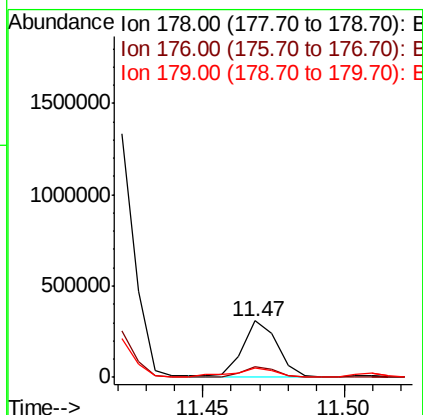
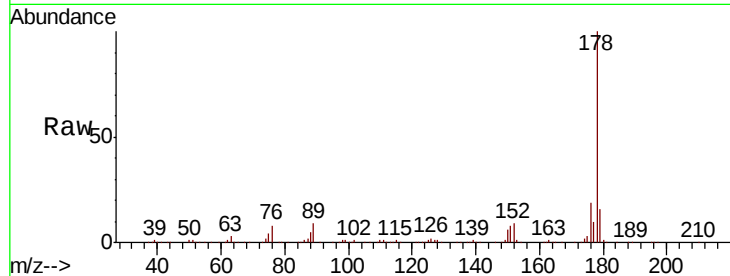
#72
 Anthracene
 Concen: 12.394 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: BF118350.D
 Acq: 27 Dec 2019 21:02

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	16.4	12.9	19.3

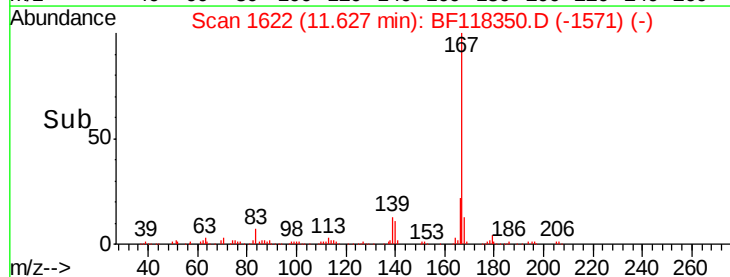
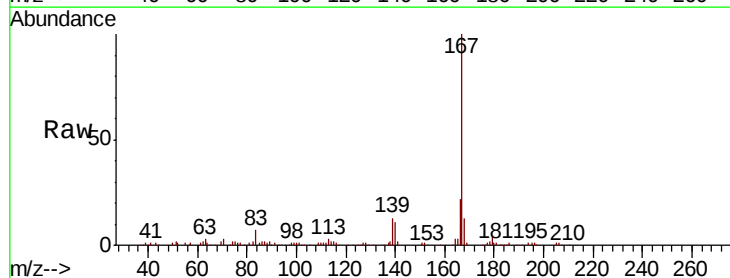
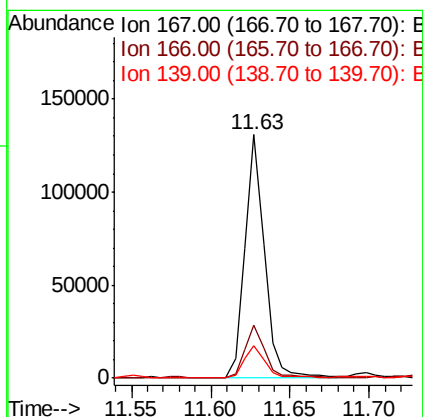
Manual Integrations
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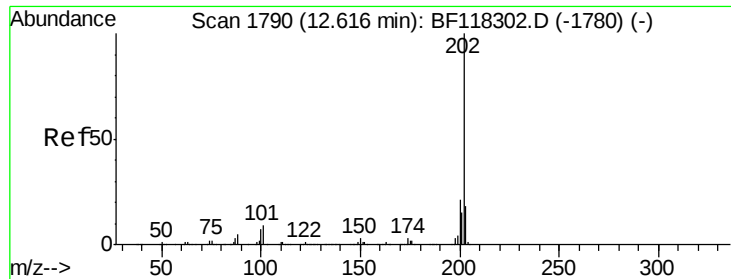
mohammad
 12/30/2019 2:08:12 PM



#73
 Carbazole
 Concen: 5.975 ng
 RT: 11.63 min Scan# 1622
 Delta R.T. -0.00 min
 Lab File: BF118350.D
 Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.8	18.1	27.1
139	13.1	11.5	17.3





#75

Fluoranthene

Concen: 66.783 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.01 min

Lab File: BF118350.D

Acq: 27 Dec 2019 21:02

Instrument :

BNA_F

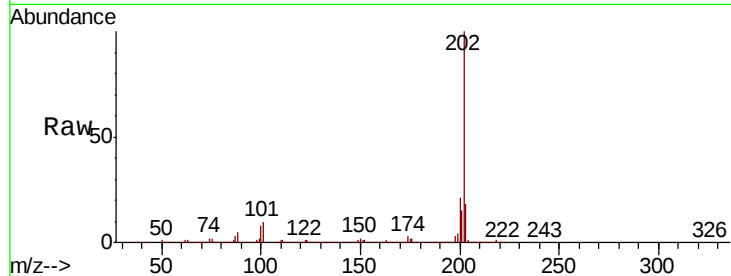
ClientSampleId :

TP-4DL

Tot Ion:	202	Resp:	1434307
Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	29.5
203	18.0	0.0	37.6

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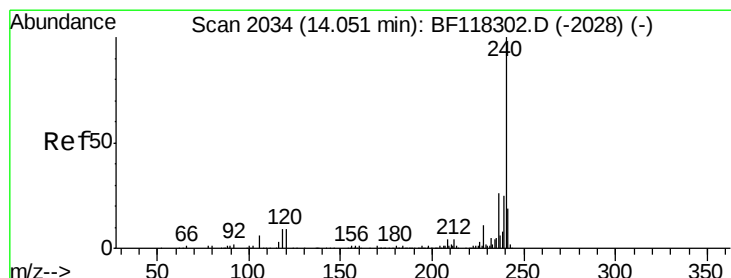
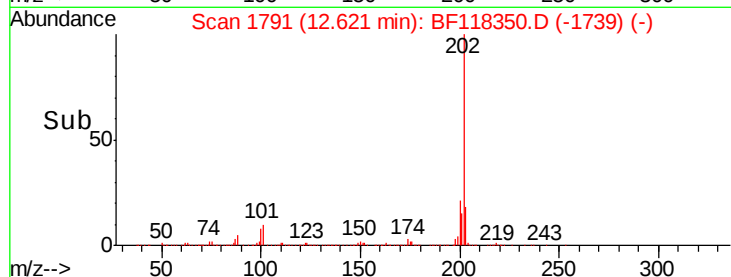
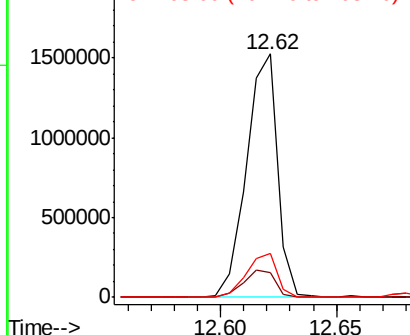


Abundance

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

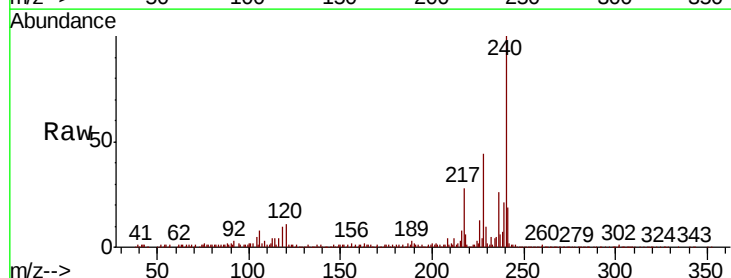
RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF118350.D

Acq: 27 Dec 2019 21:02

Tgt Ion:	240	Resp:	344507
Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.1	10.7#
236	26.2	21.0	31.6

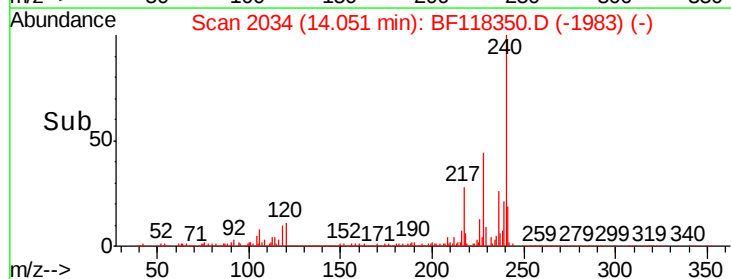
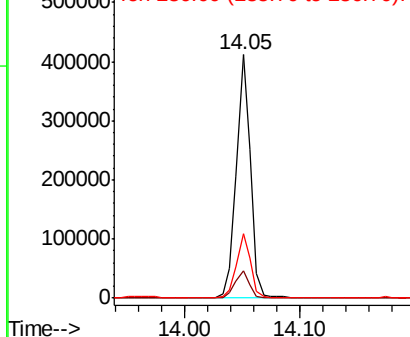


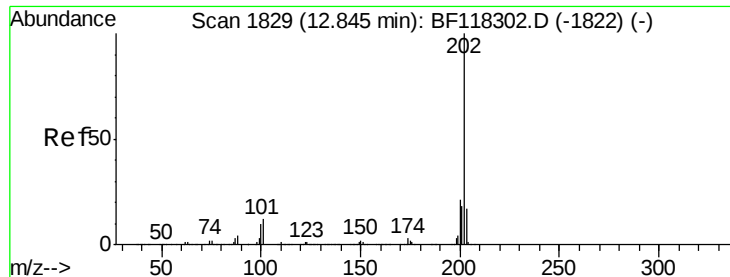
Abundance

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





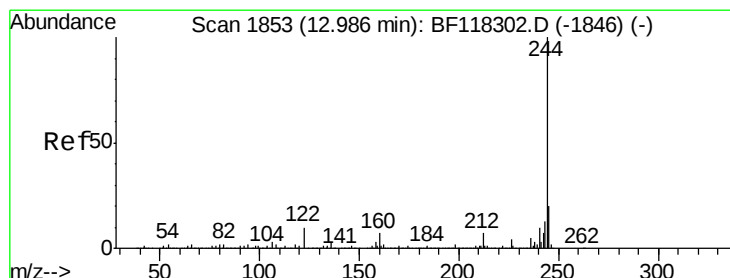
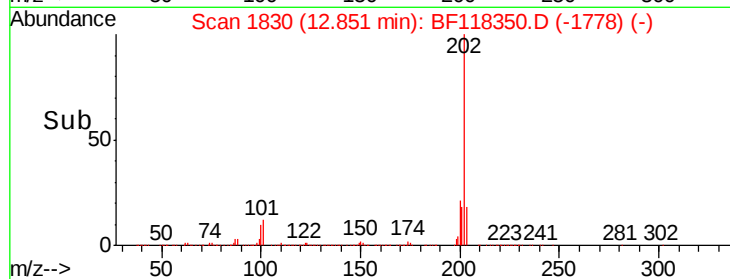
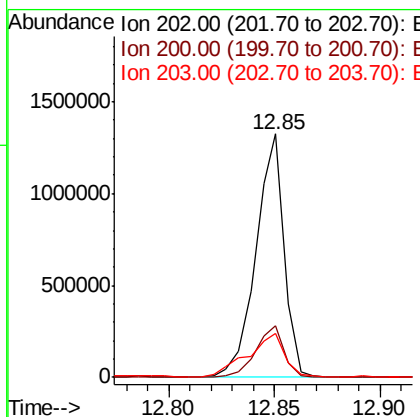
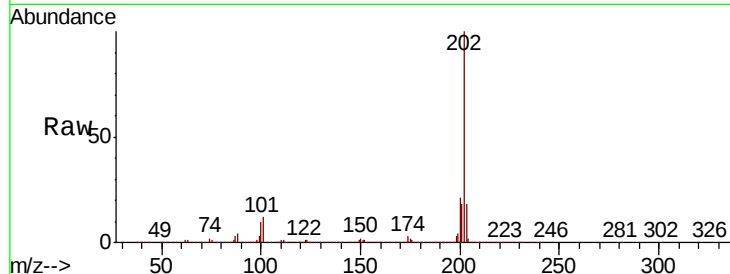
#78
Pvrene
Concen: 43.649 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	18.1	13.9	20.9

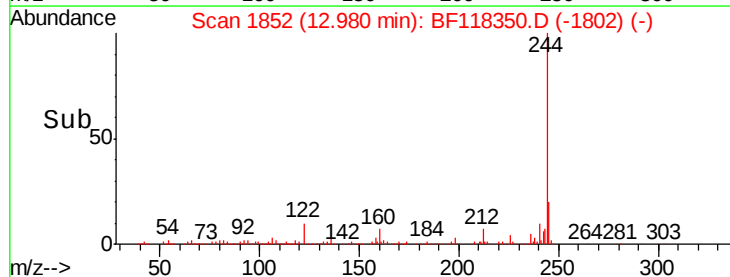
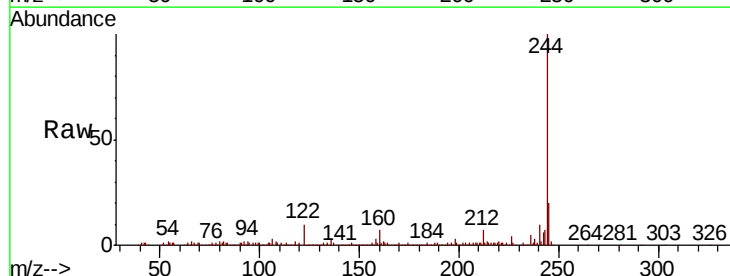
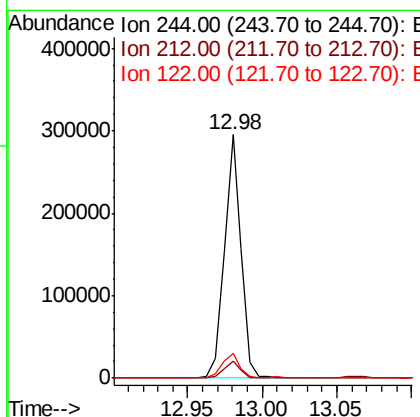
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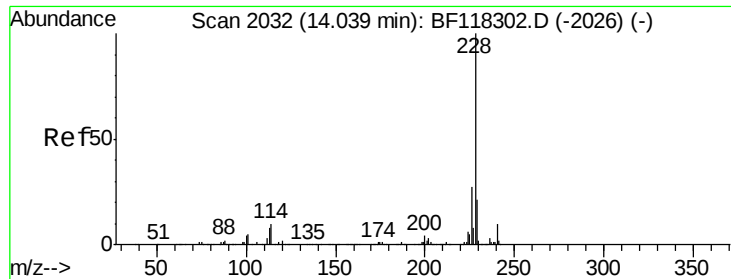
mohammad
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#79
Terphenyl-d14
Concen: 11.218 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.2
122	10.4	7.8	11.8





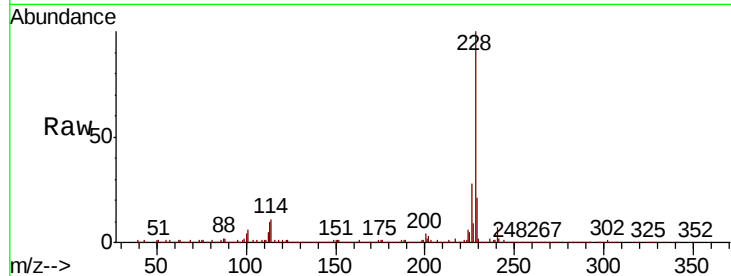
#81
Benzo(a)anthracene
Concen: 30.805 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.0	33.0
229	20.6	16.6	24.8

Manual Integrations
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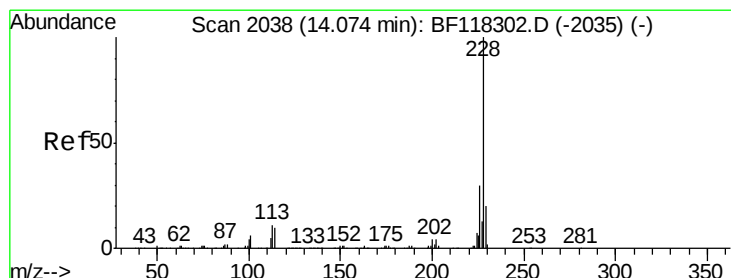
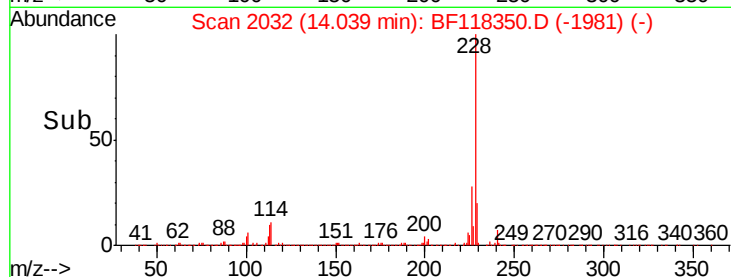
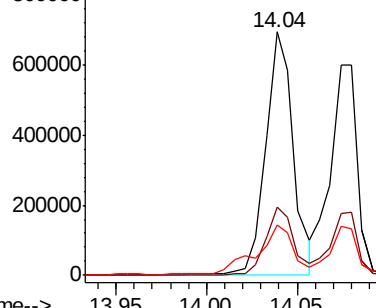


Abundance

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: 26.955 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

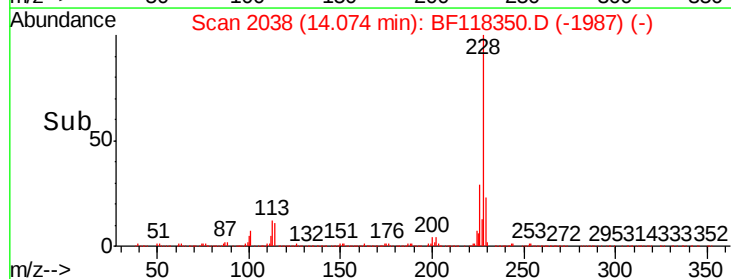
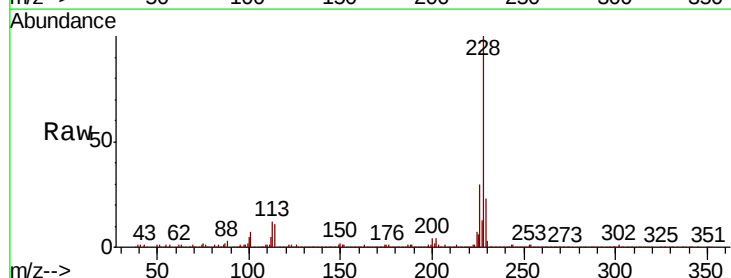
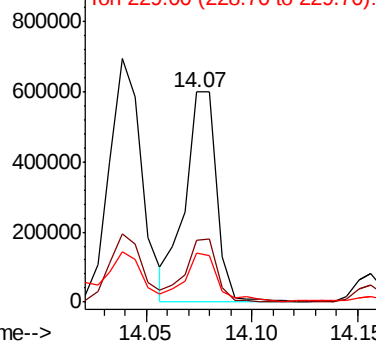
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.9	35.9
229	23.1	16.1	24.1

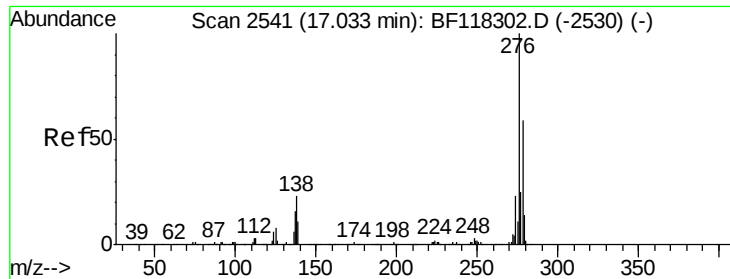
Abundance

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





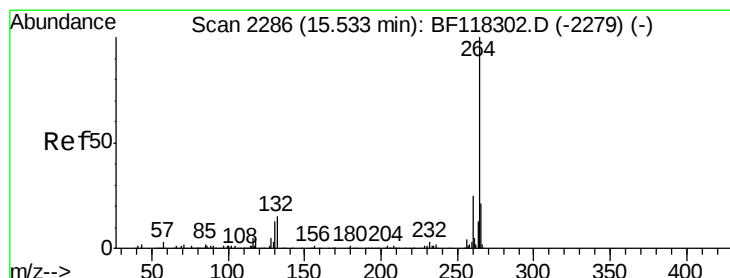
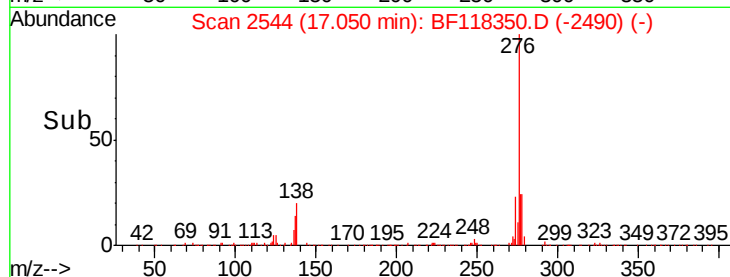
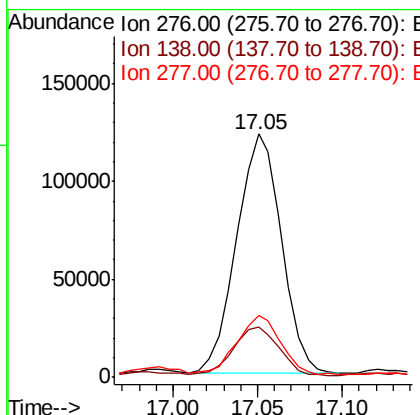
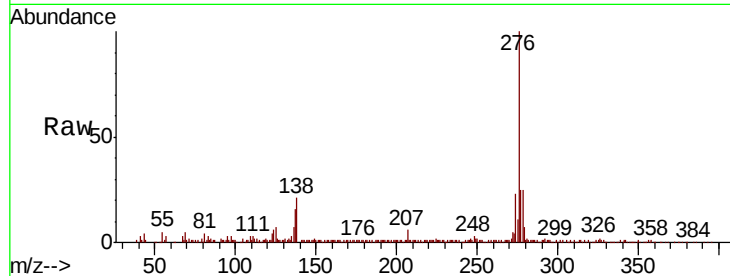
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 11.414 ng
 RT: 17.05 min Scan# 2544
 Delta R.T. 0.02 min
 Lab File: BF118350.D
 Acq: 27 Dec 2019 21:02

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.2	19.5	29.3
277	24.5	20.6	30.8

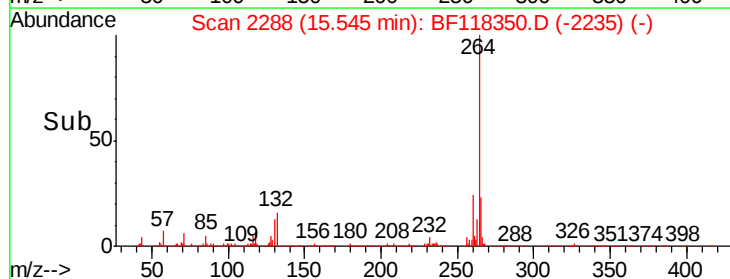
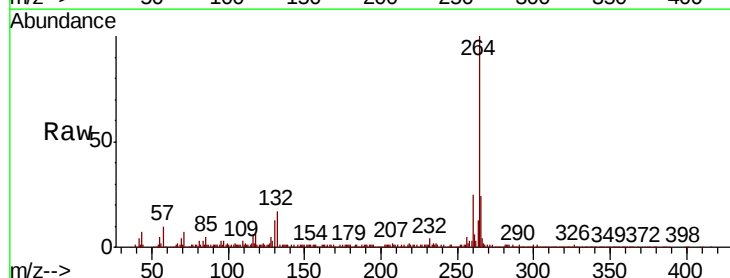
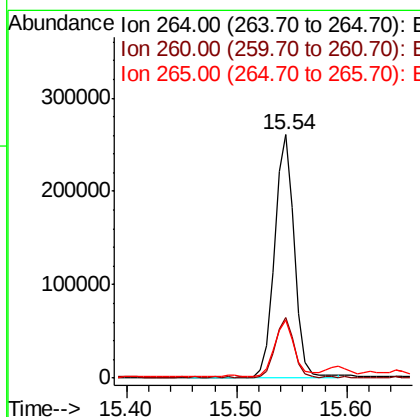
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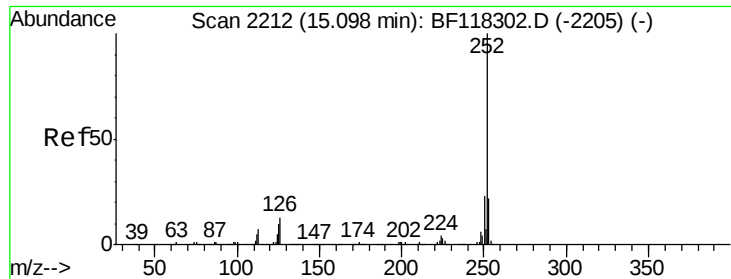
mohammad
 12/30/2019 2:08:12 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.54 min Scan# 2288
 Delta R.T. 0.01 min
 Lab File: BF118350.D
 Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.8	29.6
265	23.8	17.0	25.4





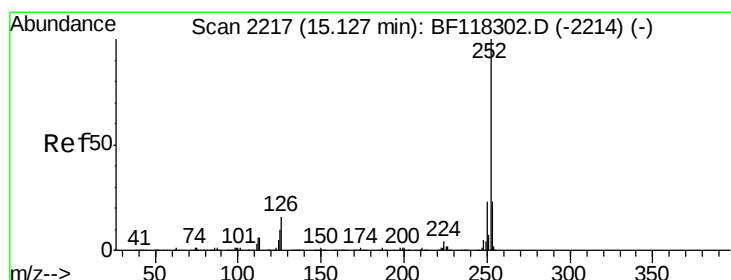
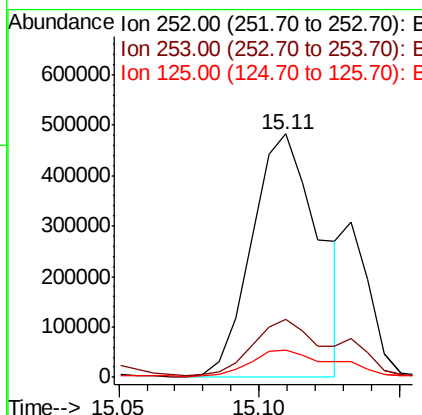
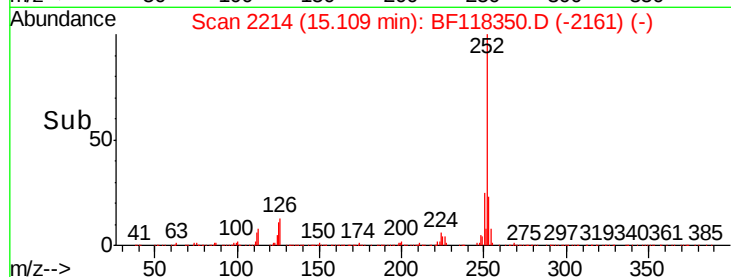
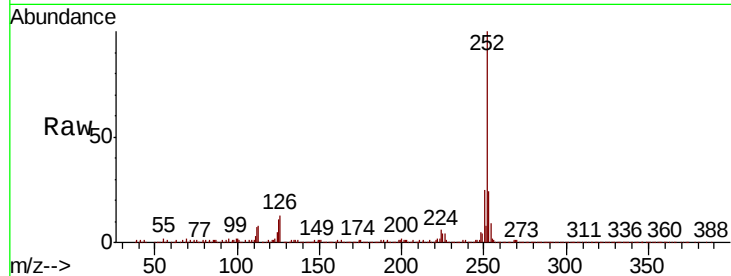
#88
Benzo(b)fluoranthene
Concen: 37.501 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampled :
TP-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	11.4	7.7	11.5

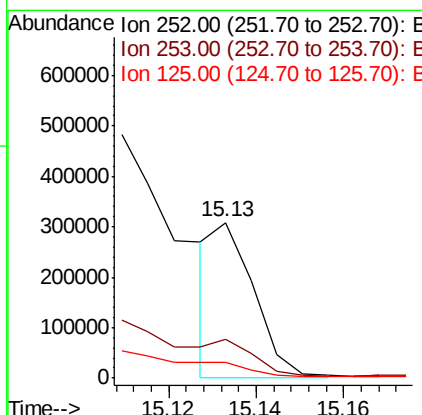
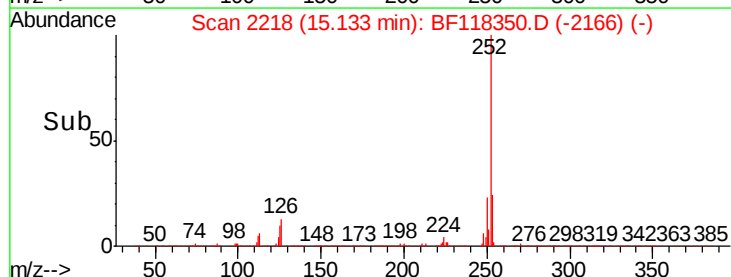
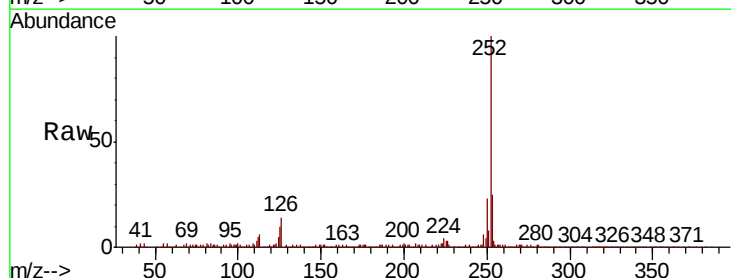
Manual Integrations
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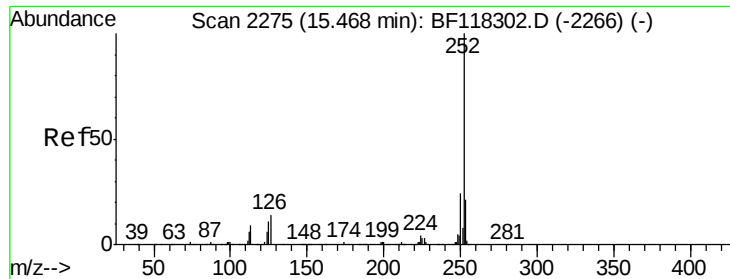
mohammad
12/30/2019 2:08:12 PM



#89
Benzo(k)fluoranthene
Concen: 9.593 ng m
RT: 15.13 min Scan# 2218
Delta R.T. 0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.0	27.0
125	10.3	8.0	12.0





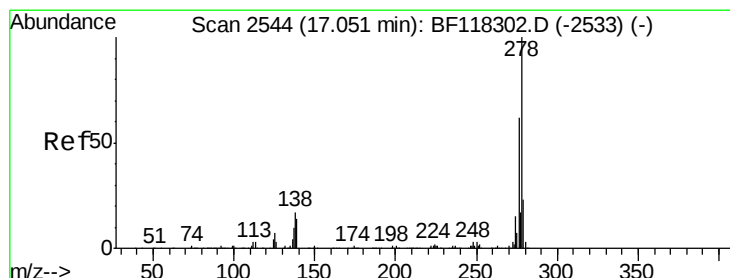
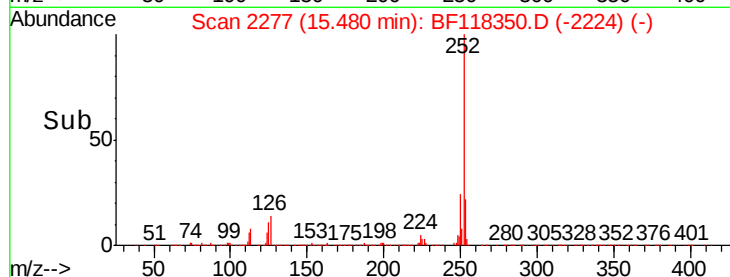
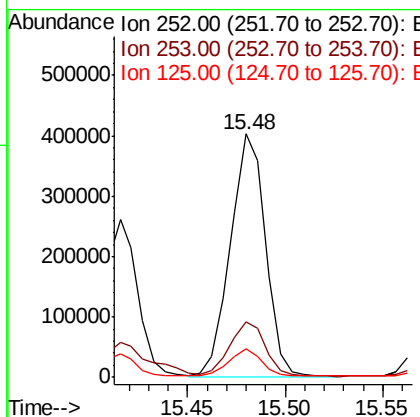
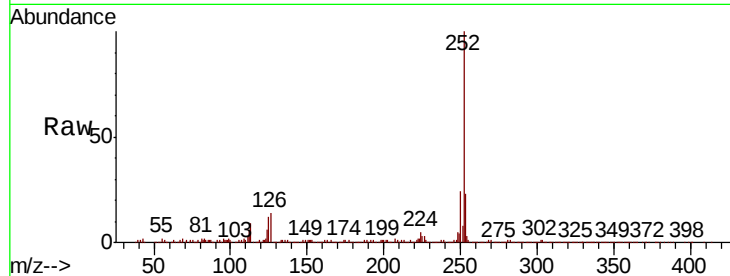
#90
Benzo(a)pyrene
Concen: 26.363 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Instrument :
BNA_F
ClientSampleID :
TP-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	11.6	9.0	13.4

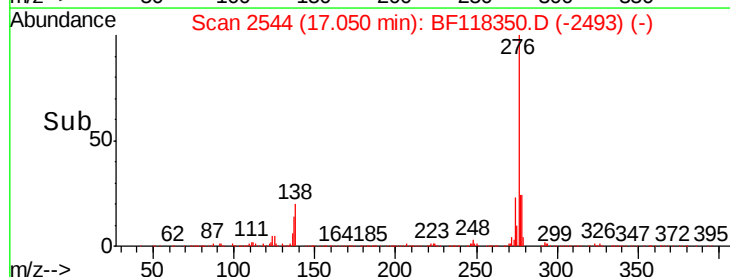
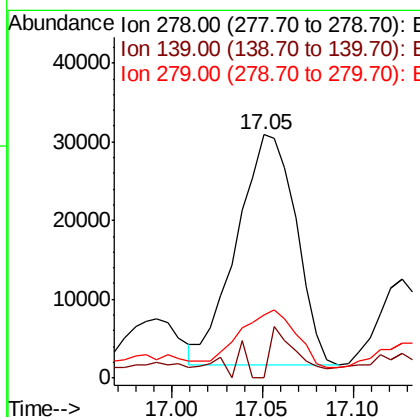
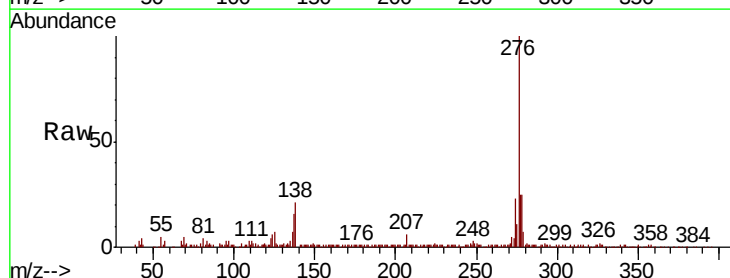
Manual Integrations
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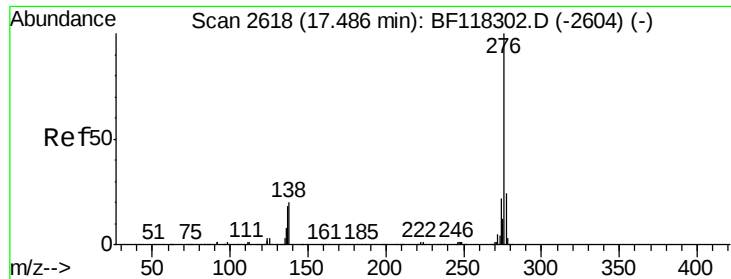
mohammad
12/30/2019 2:08:12 PM



#91
Dibenzo(a,h)anthracene
Concen: 4.018 ng
RT: 17.05 min Scan# 2544
Delta R.T. -0.00 min
Lab File: BF118350.D
Acq: 27 Dec 2019 21:02

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	11.5	17.3#
279	26.2	18.3	27.5





#92
 Benzo(a,h,i)perylene
 Concen: 12.780 ng
 RT: 17.51 min Scan# 2622
 Delta R.T. 0.02 min
 Lab File: BF118350.D
 Acq: 27 Dec 2019 21:02

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Tot Ion:	276	Resp:	203449
Ion Ratio	Lower	Upper	
276	100		
277	24.1	19.1	28.7
138	20.2	16.1	24.1

Manual Integrations
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 12/30/2019 2:08:12 PM

