

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
 Data File : BF114511.D
 Acq On : 23 May 2019 3:52
 Operator : JU/SJ
 Sample : K2951-09 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-14-S

Manual Integrations
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Quant Time: May 23 05:24:53 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 20 04:47:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	203388	20.00	ng	-0.01
21) Naphthalene-d8	8.11	136	798983	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	378123	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	613713	20.00	ng	0.00
76) Chrysene-d12	14.01	240	376175	20.00	ng	0.00
87) Perylene-d12	15.48	264	340607	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	479502	37.94	ng	-0.01
7) Phenol-d6	6.47	99	642331	42.97	ng	-0.01
23) Nitrobenzene-d5	7.39	82	356721	25.06	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	107886	27.60	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	577775	23.11	ng	0.00
79) Terphenyl-d14	12.94	244	428735	23.49	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.13	128	1675867	44.903	ng	99
37) 2-Methylnaphthalene	8.83	142	313122	13.004	ng	# 94
38) 1-Methylnaphthalene	8.92	142	181528	8.005	ng	# 97
46) 1,1'-Biphenyl	9.29	154	124742	4.084	ng	96
50) Dimethylphthalate	9.58	163	107121	3.859	ng	# 81
52) Acenaphthene	9.90	154	568381	24.772	ng	99
55) Dibenzofuran	10.07	168	704459	20.938	ng	94
58) Fluorene	10.42	166	584195	22.480	ng	99
71) Phenanthrene	11.39	178	3613039	121.008	ng	98
72) Anthracene	11.43	178	752810	25.102	ng	98
73) Carbazole	11.59	167	500077	17.487	ng	98
75) Fluoranthene	12.60	202	4231037	131.590	ng	98
78) Pvrene	12.82	202	3901127	128.914	ng	97
81) Benzo(a)anthracene	14.00	228	2187899	89.923	ng	98
83) Chrysene	14.04	228	2027856	85.022	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	857193	40.665	ng	96
88) Benzo(b)fluoranthene	15.06	252	2273459m	104.186	ng	
89) Benzo(k)fluoranthene	15.08	252	661233m	32.987	ng	
90) Benzo(a)pvrene	15.43	252	1562718	81.373	ng	98
91) Dibenzo(a,h)anthracene	16.96	278	214168m	13.421	ng	
92) Benzo(g,h,i)perylene	17.42	276	867423	54.240	ng	99

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

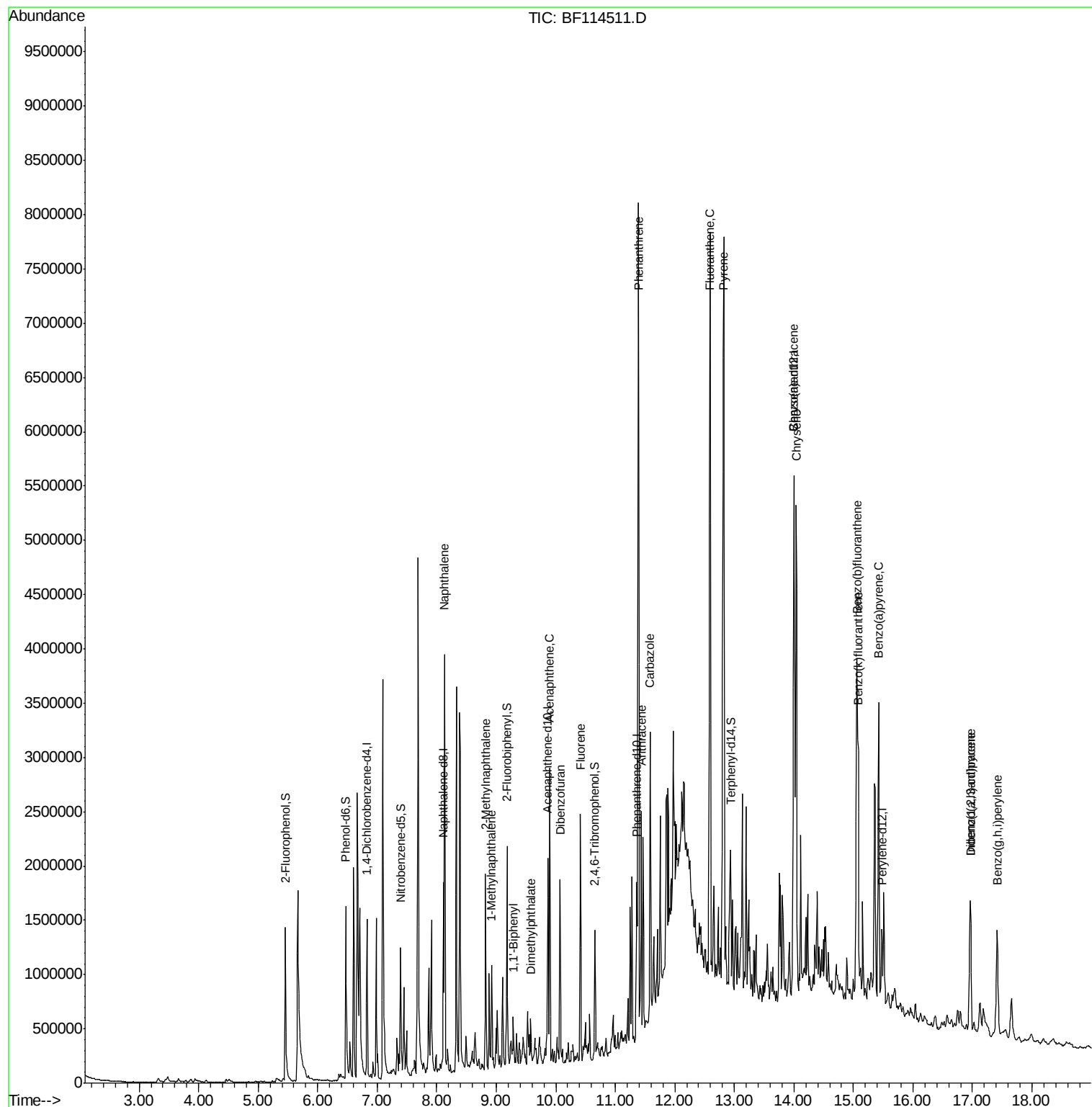
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
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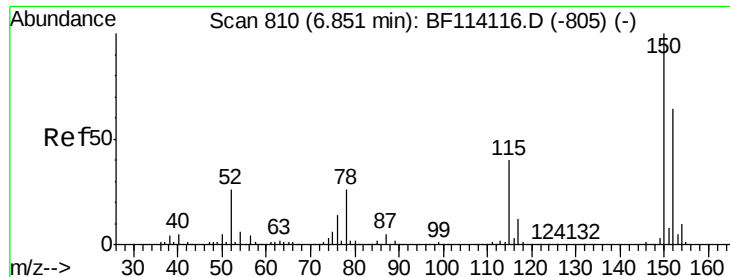
Instrument :
BNA_F
ClientSampled :
TP-14-S

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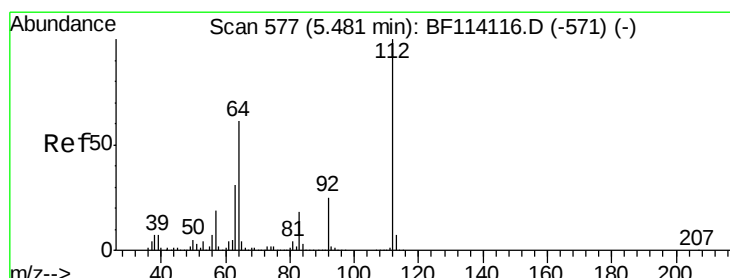
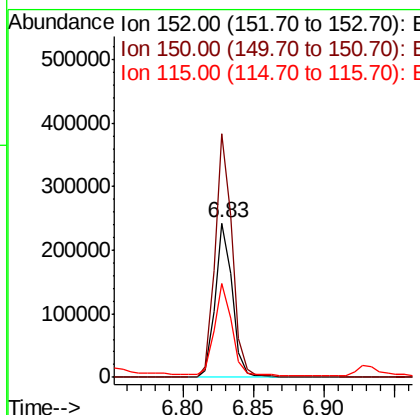
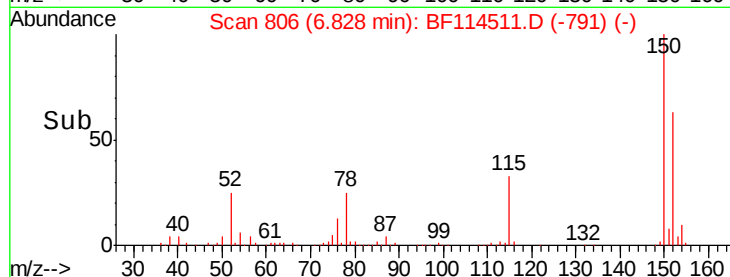
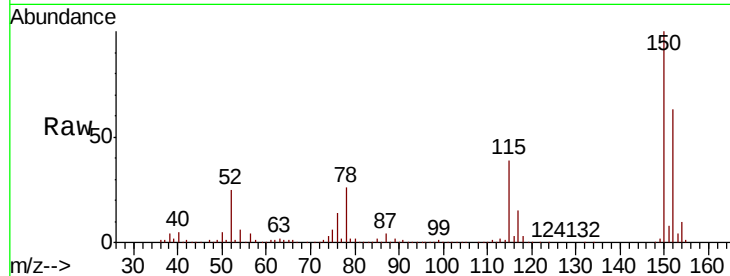
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.83 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

Instrument :
 BNA_F
 ClientSampleId :
 TP-14-S

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	124.3	186.5
115	61.3	49.1	73.7

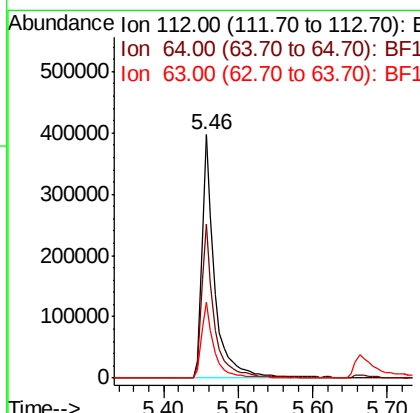
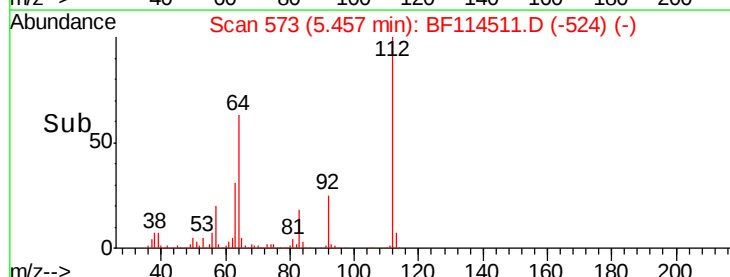
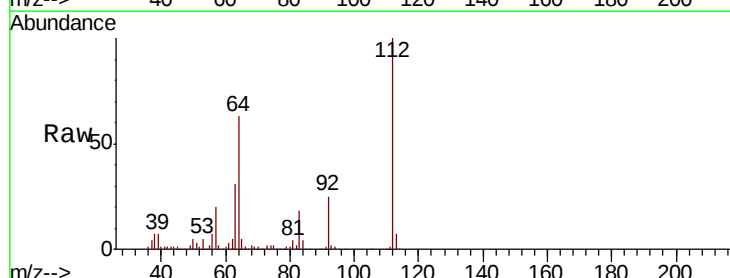
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#5
 2-Fluorophenol
 Concen: 37.940 ng
 RT: 5.46 min Scan# 573
 Delta R.T. -0.01 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.4	49.0	73.6
63	31.2	24.6	37.0





#7

Phenol-d6

Concen: 42.971 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF114511.D

Acq: 23 May 2019 3:52

Instrument :

BNA_F

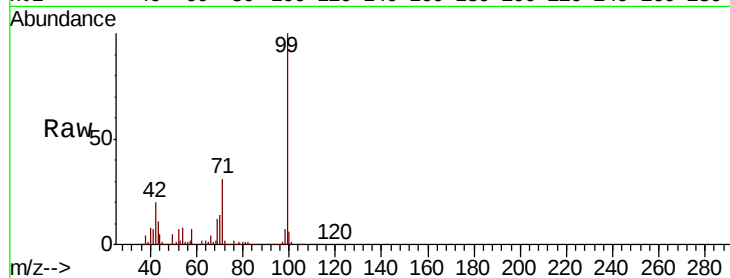
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TP-14-S

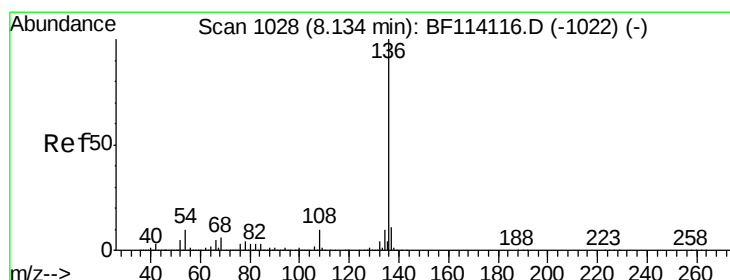
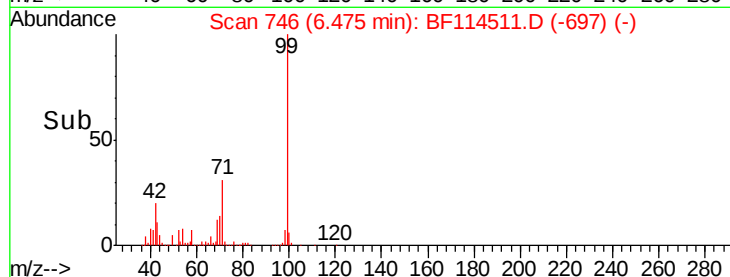
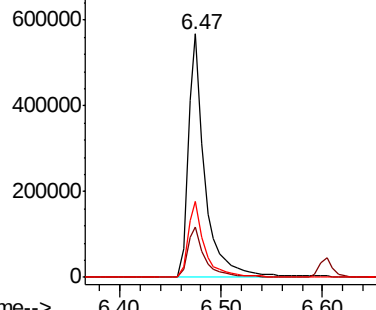
Tot Ion:	99	Resp:	642331
Ion Ratio	Lower	Upper	
99	100		
42	20.5	17.9	26.9
71	31.2	26.2	39.2

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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: 8.11 min Scan# 1024

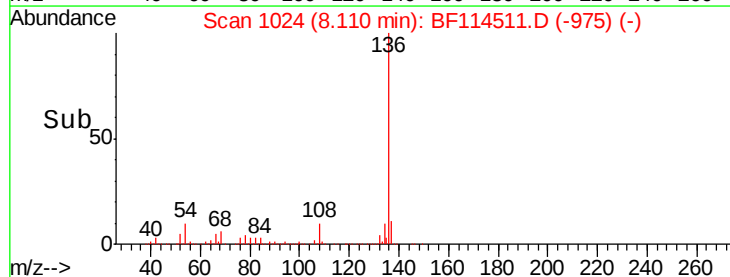
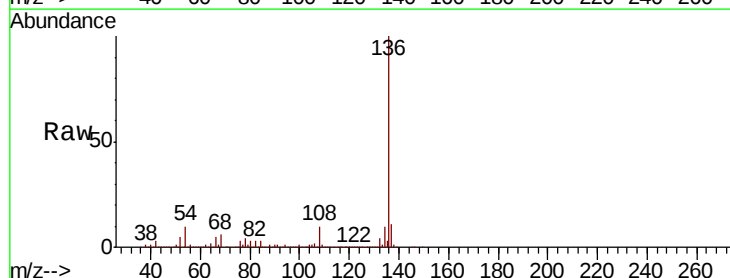
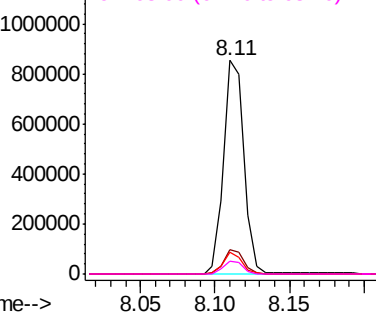
Delta R.T. -0.01 min

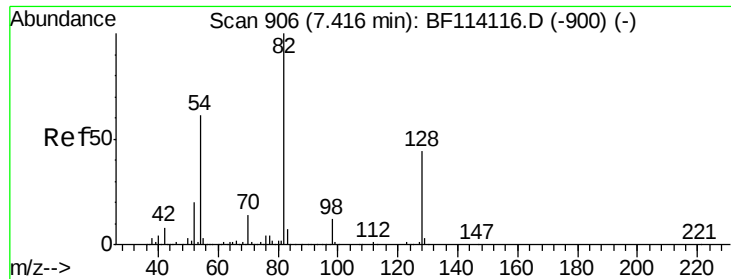
Lab File: BF114511.D

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Tgt Ion:	136	Resp:	798983
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.8	13.2
54	10.0	7.8	11.8
68	6.3	5.1	7.7

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





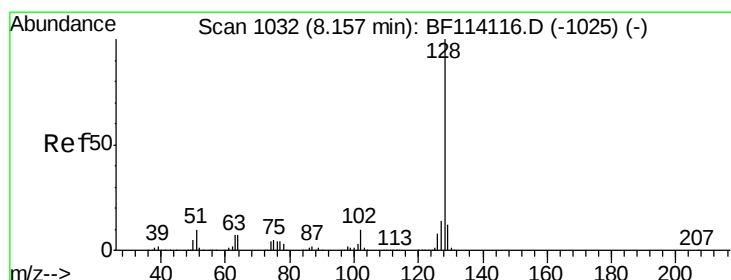
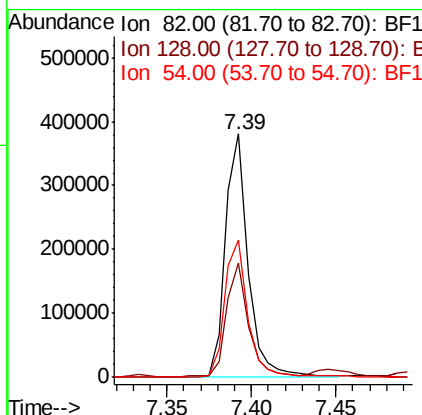
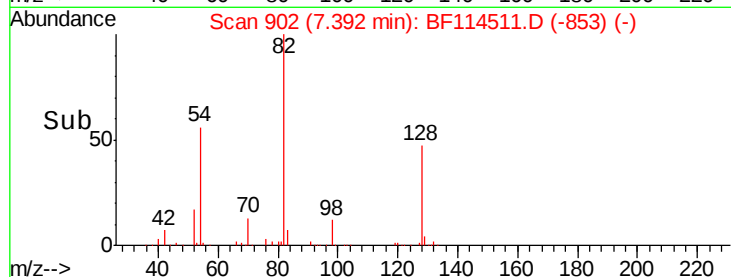
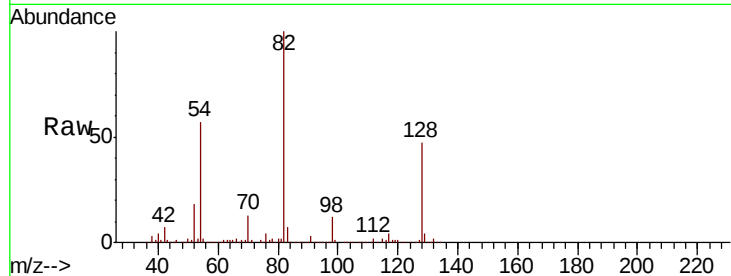
#23
 Nitrobenzene-d5
 Concen: 25.056 ng
 RT: 7.39 min Scan# 902
 Delta R.T. -0.01 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

Instrument :
 BNA_F
 ClientSampled :
 TP-14-S

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.7	35.5	53.3
54	56.6	48.5	72.7

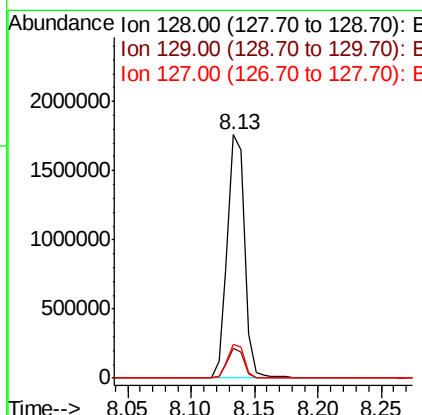
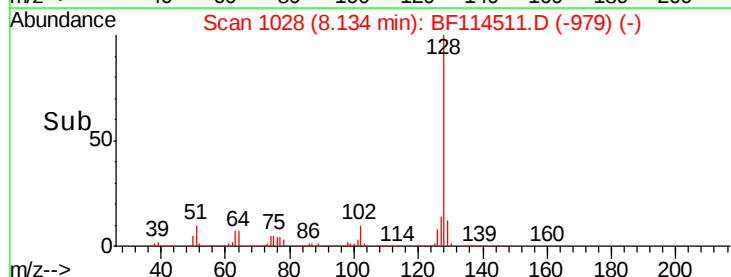
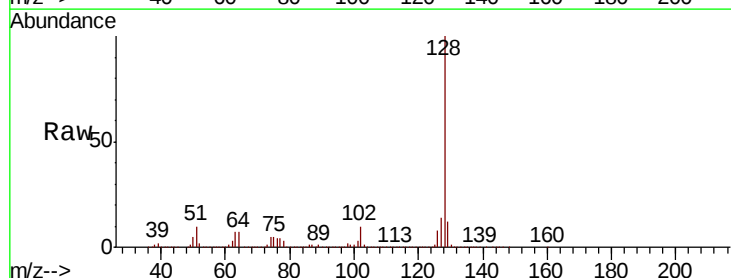
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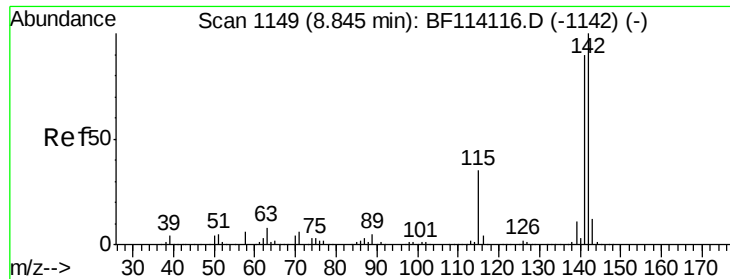
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#31
 Naphthalene
 Concen: 44.903 ng
 RT: 8.13 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.6	14.4
127	13.6	11.3	16.9





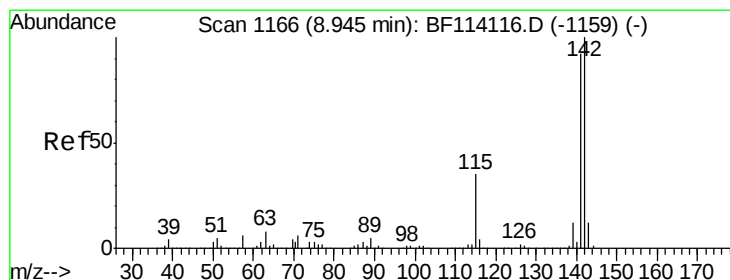
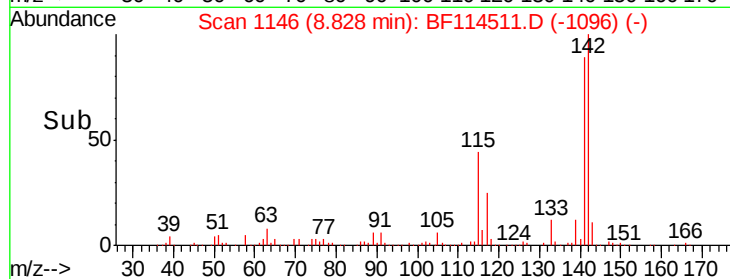
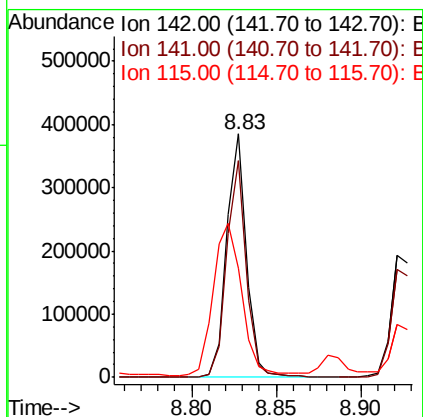
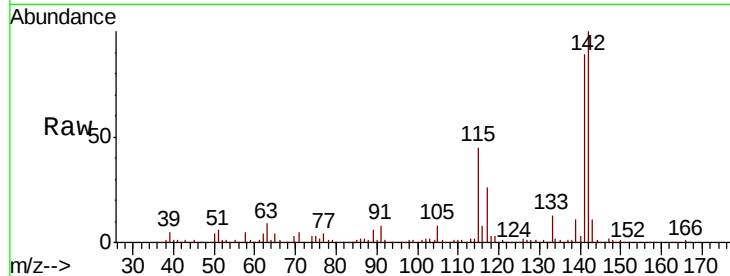
#37
2-Methylnaphthalene
Concen: 13.004 ng
RT: 8.83 min Scan# 1146
Delta R.T. -0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampled :
TP-14-S

Tot Ion	Ratio	Resp	Lower	Upper
142	100			
141	89.0	72.1	108.1	
115	44.7	28.0	42.0	

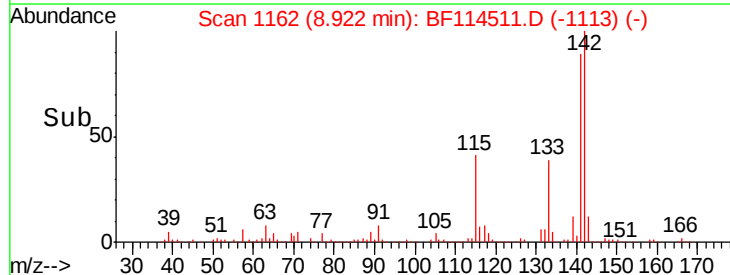
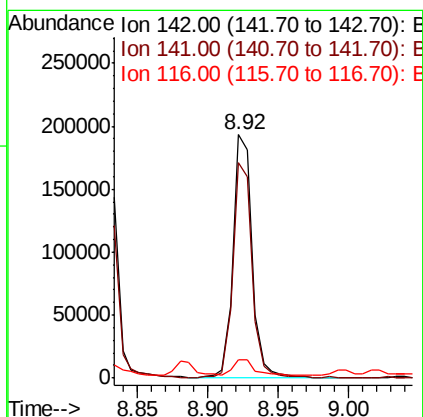
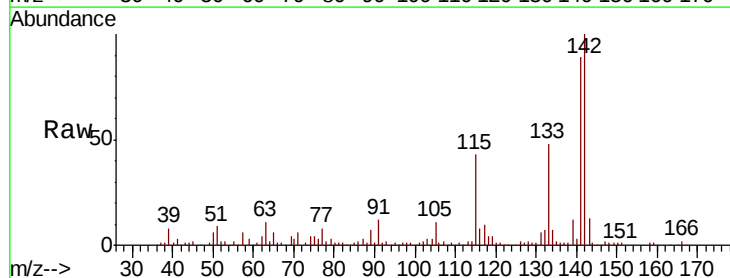
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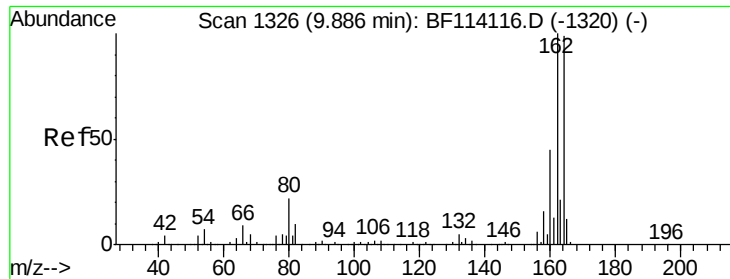
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#38
1-Methylnaphthalene
Concen: 8.005 ng
RT: 8.92 min Scan# 1162
Delta R.T. -0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Tgt Ion	Ratio	Resp	Lower	Upper
142	100			
141	88.7	73.4	110.0	
116	7.6	3.1	4.7	





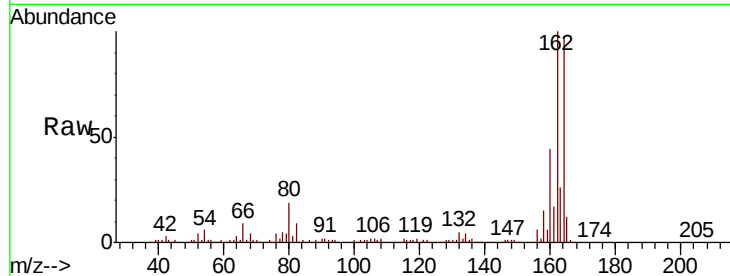
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

Instrument :
 BNA_F
 ClientSampled :
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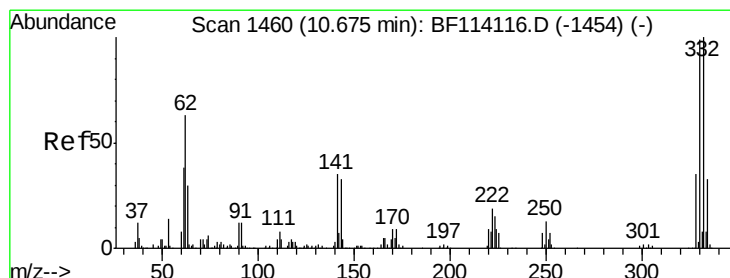
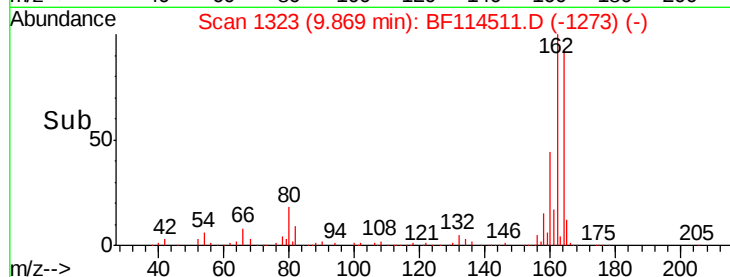
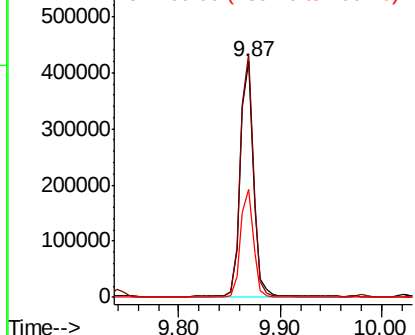
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.2	80.6	120.8	
160	45.7	36.5	54.7	

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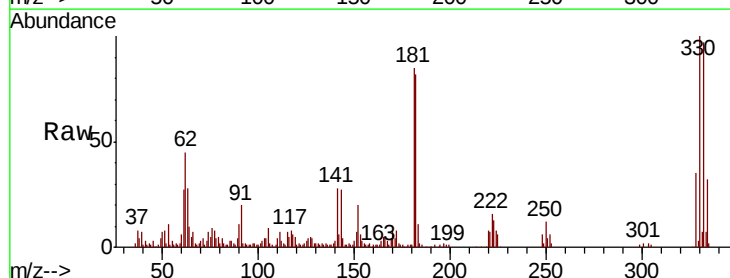


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

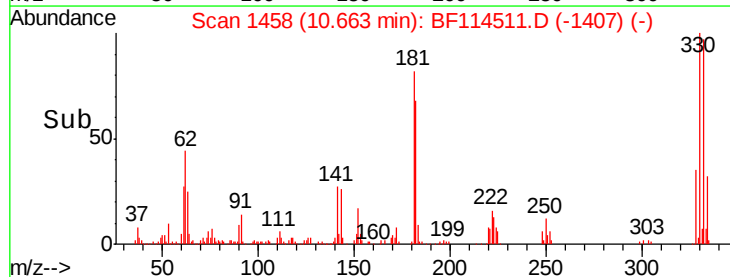
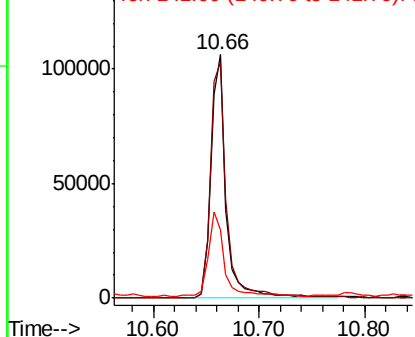


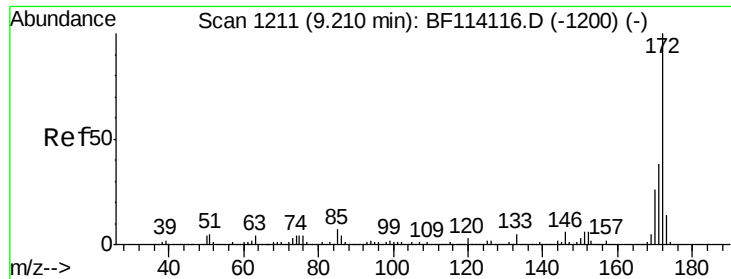
#42
 2,4,6-Tribromophenol
 Concen: 27.598 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. 0.00 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	104.0	81.4	122.2	
141	36.8	26.6	40.0	



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





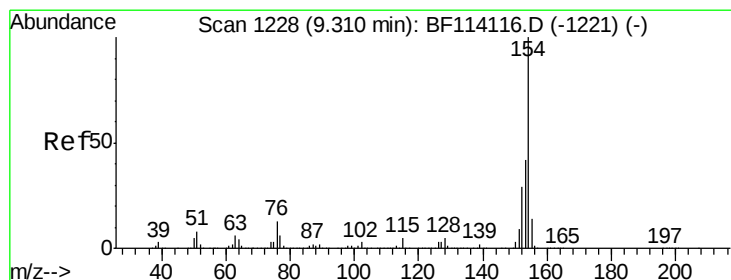
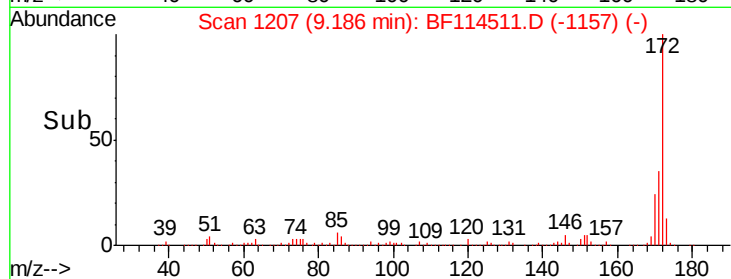
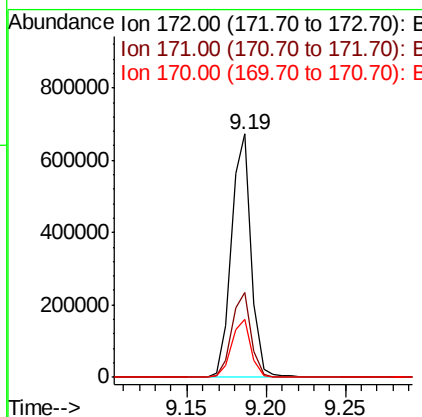
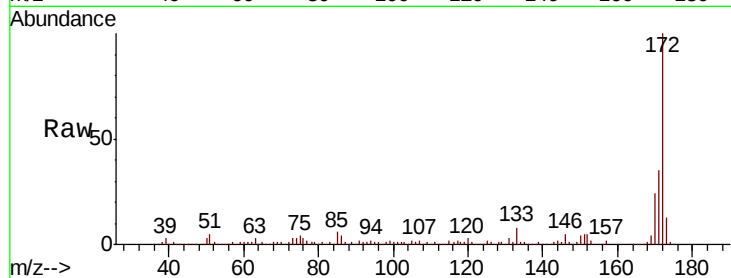
#45
2-Fluorobiphenyl
Concen: 23.114 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampleId :
TP-14-S

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	30.7	46.1
170	23.6	20.5	30.7

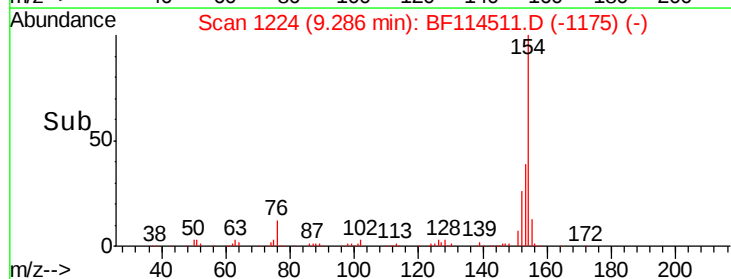
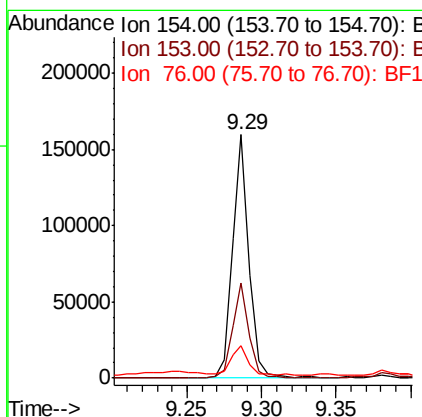
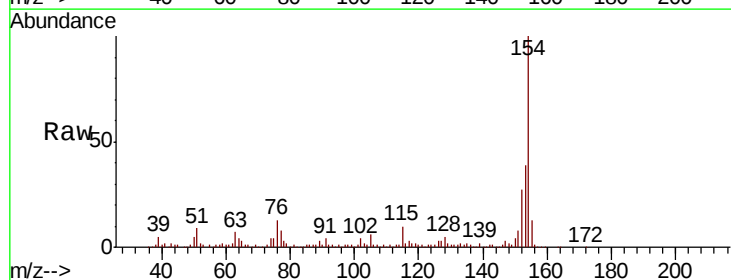
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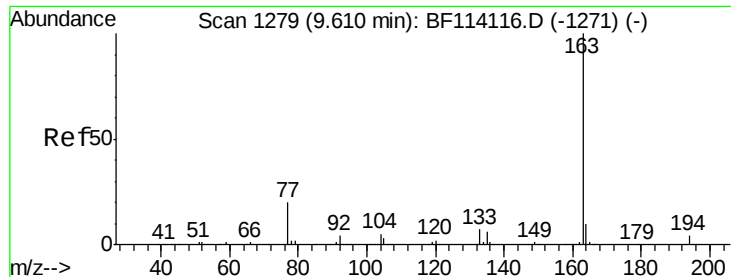
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#46
1,1'-Biphenyl
Concen: 4.084 ng
RT: 9.29 min Scan# 1224
Delta R.T. -0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.1	21.9	61.9
76	13.1	0.0	32.8





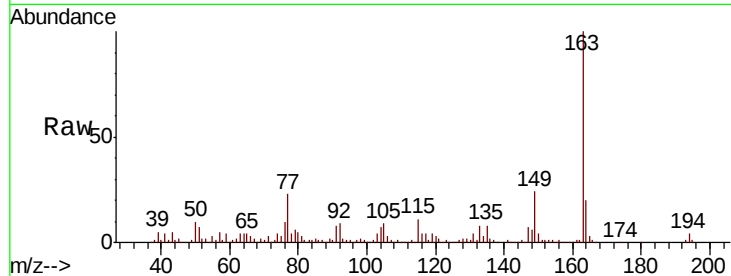
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Dimethylphthalate
Concen: 3.859 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampleId :
TP-14-S

Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100				
194	4.0		3.4	5.0	
164	20.3		8.2	12.2	

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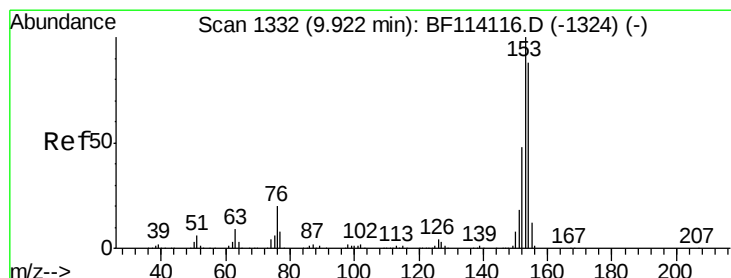
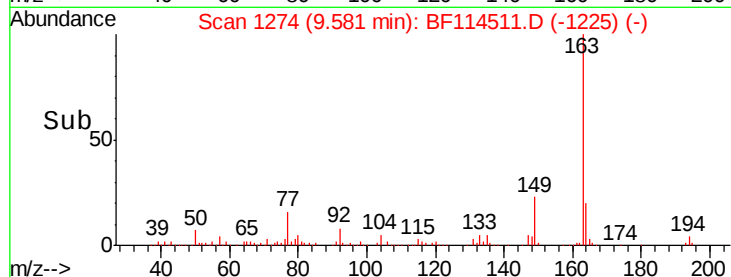
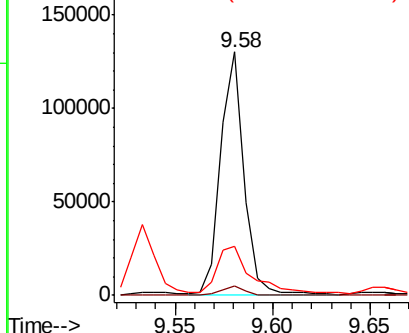


Abundance

Ion 163.00 (162.70 to 163.70): E

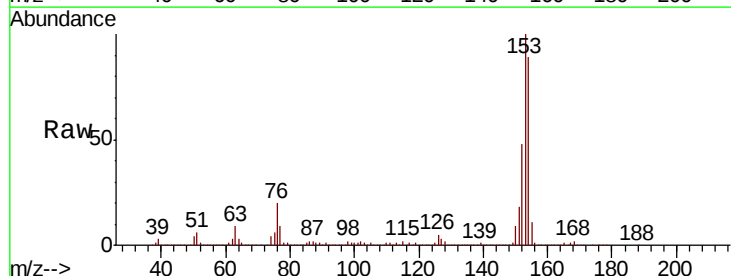
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 24.772 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
154	100				
153	112.4		90.5	135.7	
152	53.9		43.4	65.2	

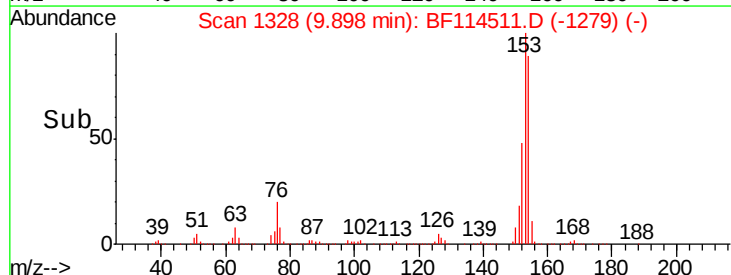
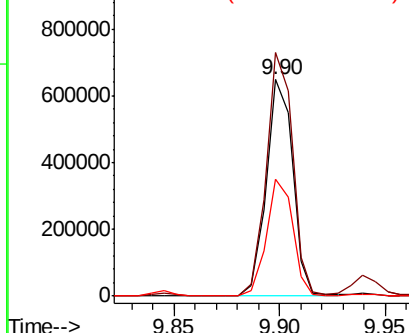


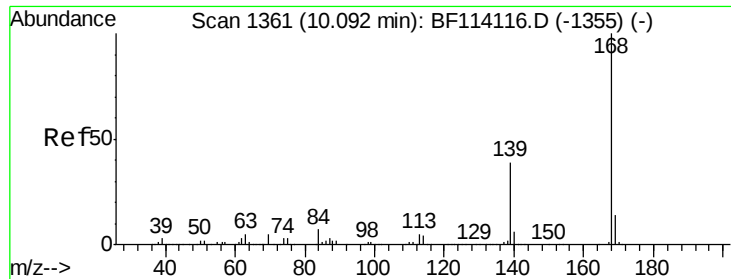
Abundance

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





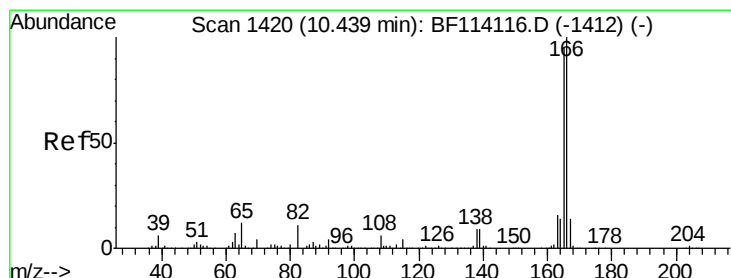
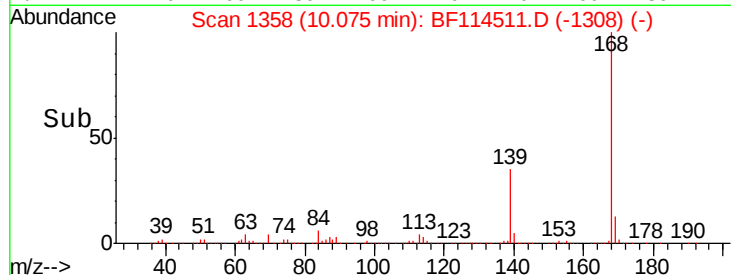
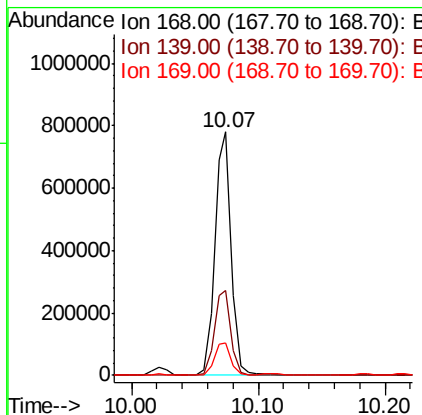
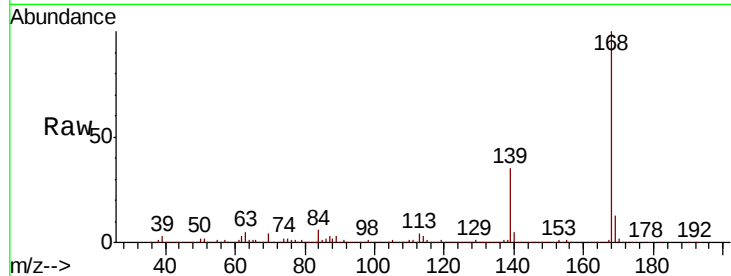
#55
Dibenzenofuran
Concen: 20.938 ng
RT: 10.07 min Scan# 1358
Delta R.T. -0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampled :
TP-14-S

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.8	31.1	46.7
169	13.2	11.4	17.0

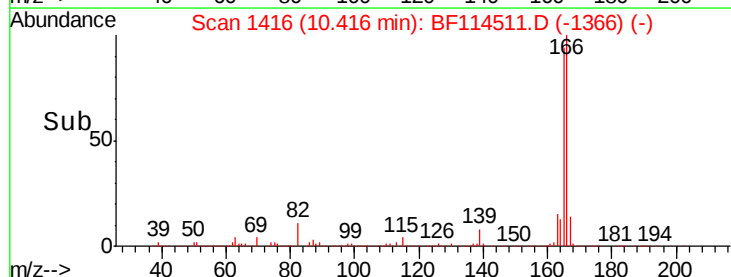
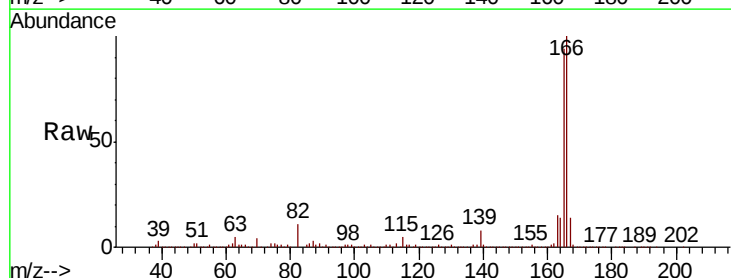
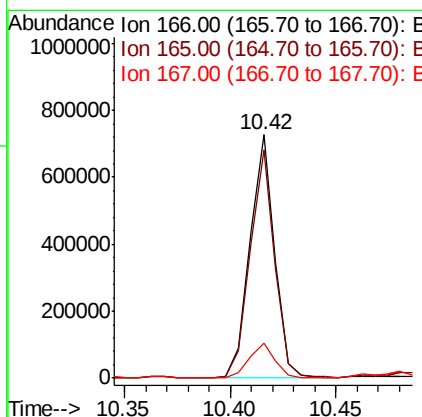
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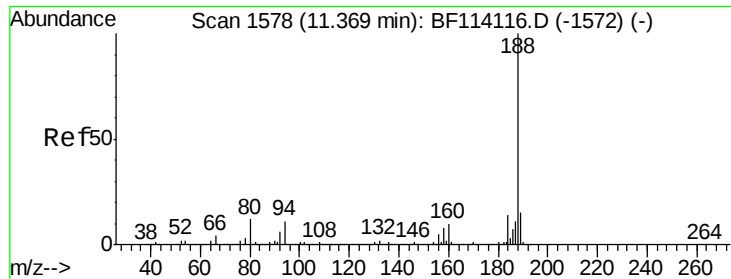
mohammad
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#58
Fluorene
Concen: 22.480 ng
RT: 10.42 min Scan# 1416
Delta R.T. -0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Tgt Ion	Ratio	Lower	Upper
166	100		
165	93.6	76.1	114.1
167	14.2	11.1	16.7





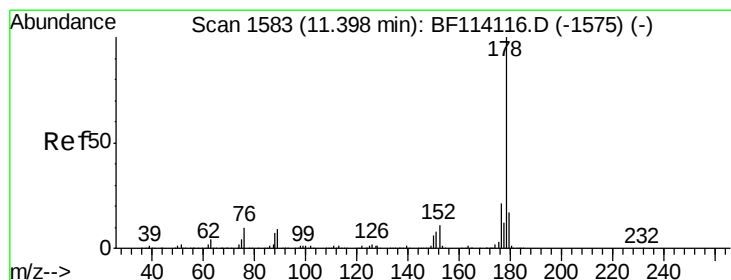
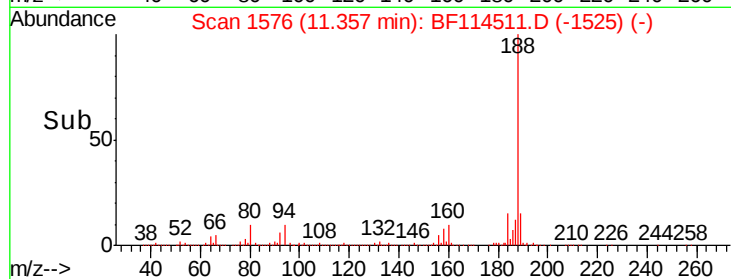
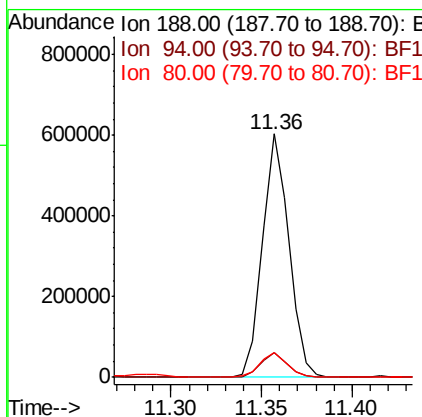
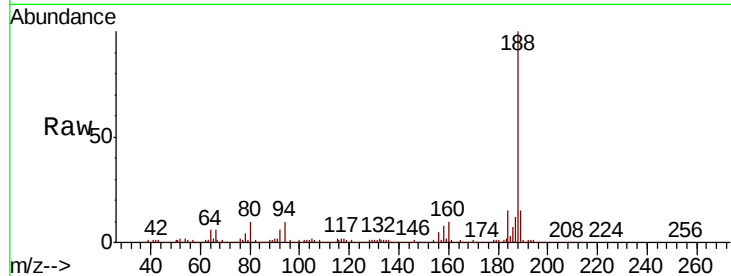
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.00 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampleId :
TP-14-S

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.0	8.4	12.6
80	10.1	9.2	13.8

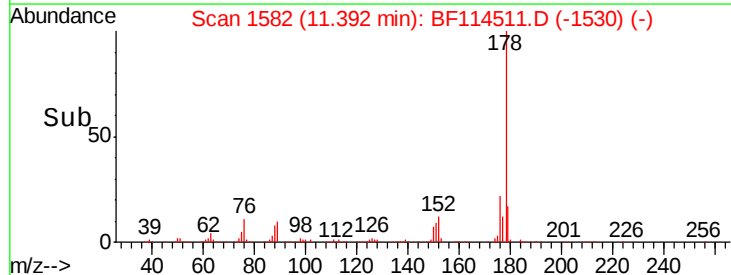
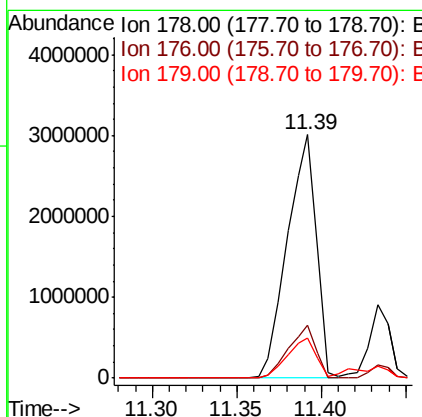
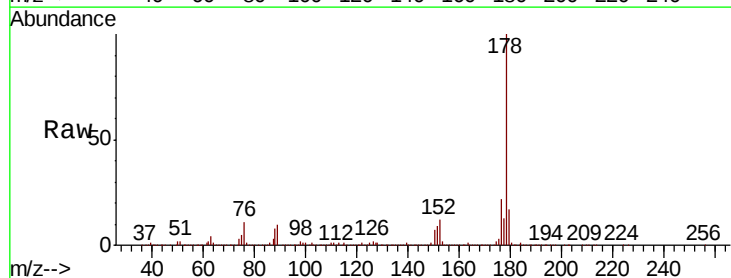
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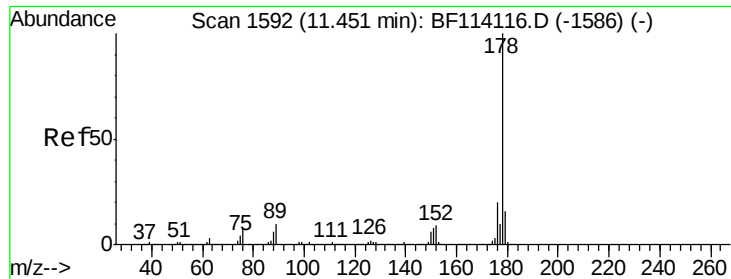
mohammad
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#71
Phenanthrene
Concen: 121.008 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	21.7	16.4	24.6
179	16.6	13.2	19.8





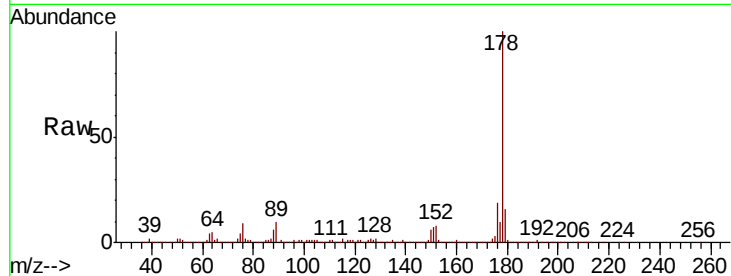
#72
 Anthracene
 Concen: 25.102 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

Instrument :
 BNA_F
 ClientSampleId :
 TP-14-S

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	15.8	13.0	19.4

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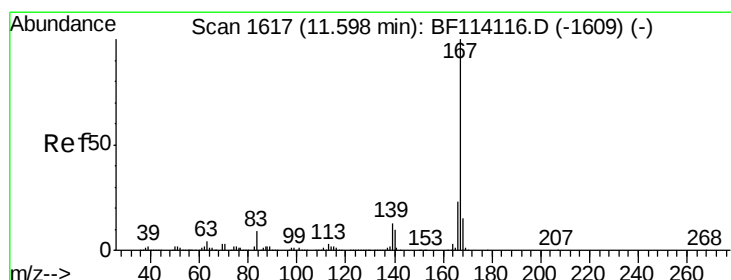
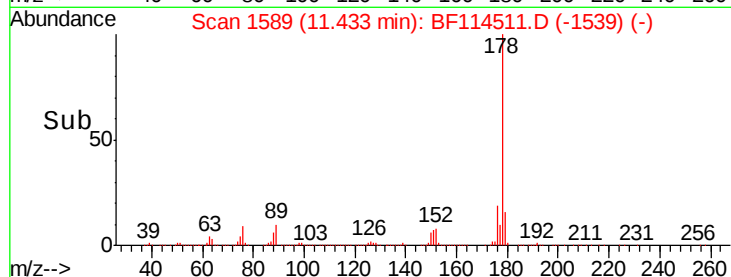
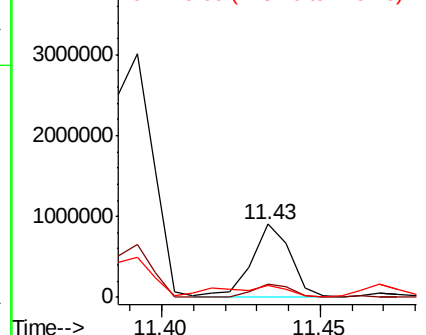


Abundance

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: 17.487 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. 0.00 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

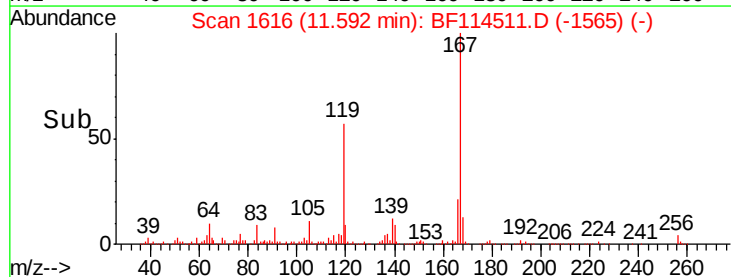
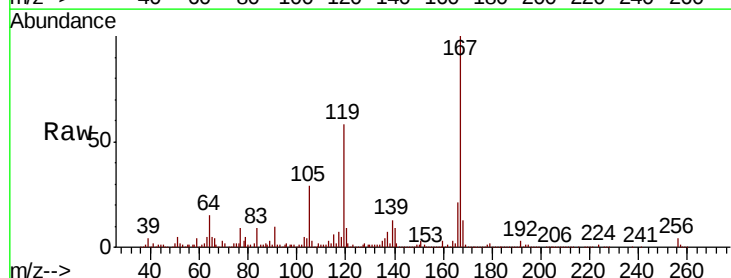
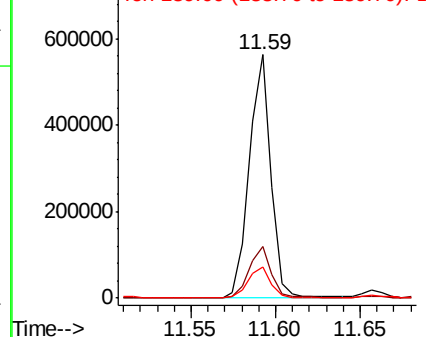
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.3	18.2	27.2
139	12.7	10.6	16.0

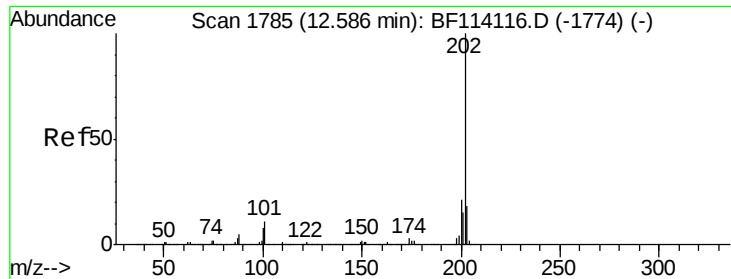
Abundance

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: 131.590 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.02 min

Lab File: BF114511.D

Acq: 23 May 2019 3:52

Instrument :

BNA_F

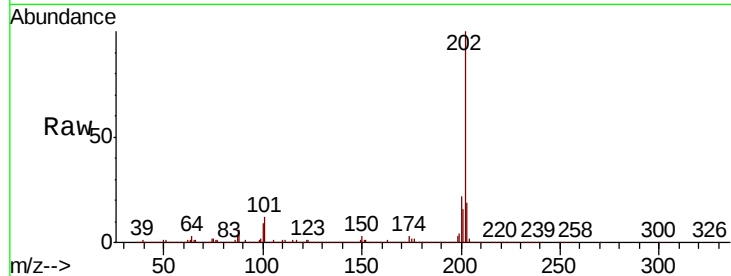
ClientSampleId :

TP-14-S

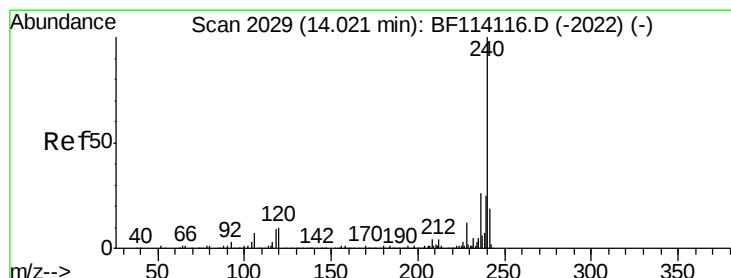
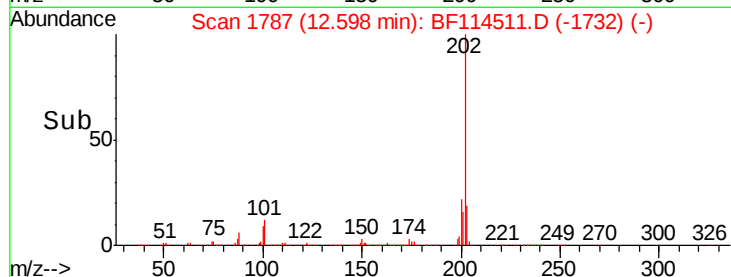
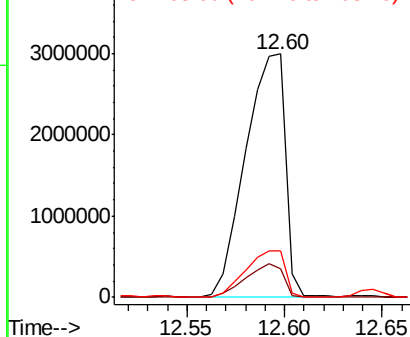
Tot Ion:	202	Resp:	4231037
Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	31.0
203	19.1	0.0	38.4

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



#76

Chrysene-d12

Concen: 20.000 ng

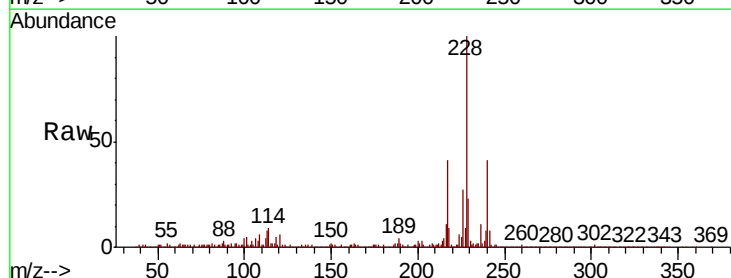
RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

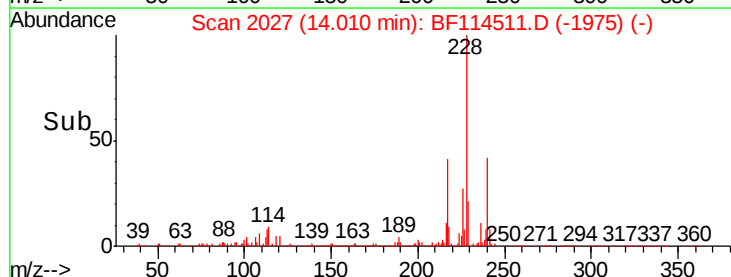
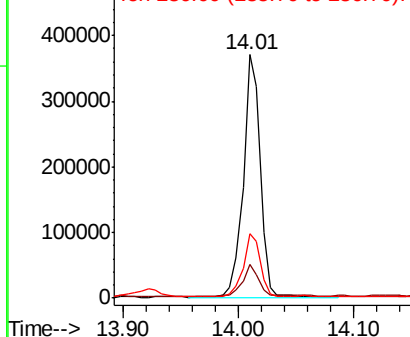
Lab File: BF114511.D

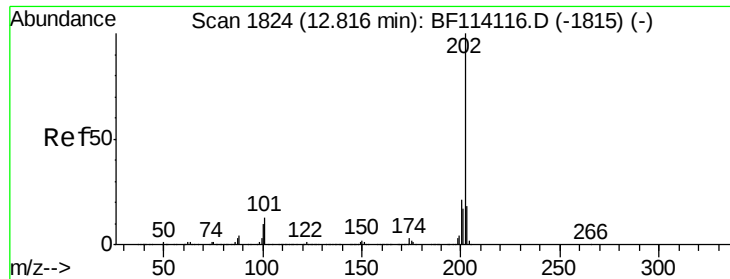
Acq: 23 May 2019 3:52

Tgt Ion:	240	Resp:	376175
Ion	Ratio	Lower	Upper
240	100		
120	13.8	8.3	12.5#
236	26.6	20.8	31.2



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





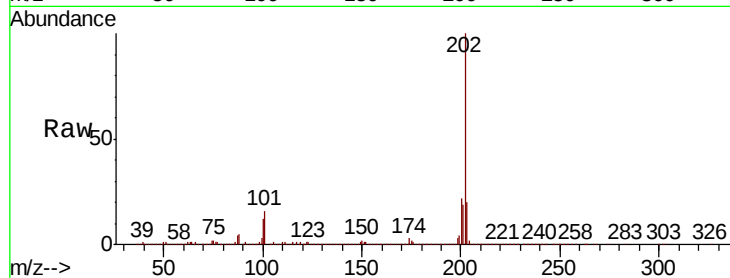
#78
Pvrene
Concen: 128.914 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.02 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampleId :
TP-14-S

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.2	16.9	25.3
203	20.1	14.5	21.7

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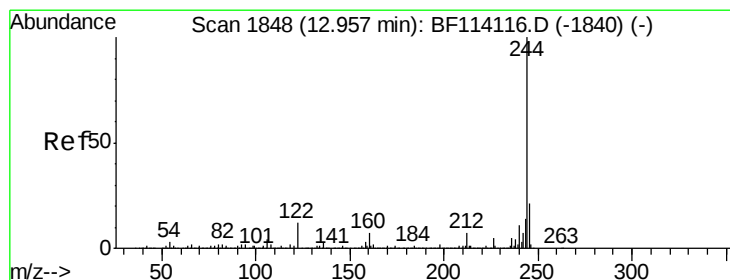
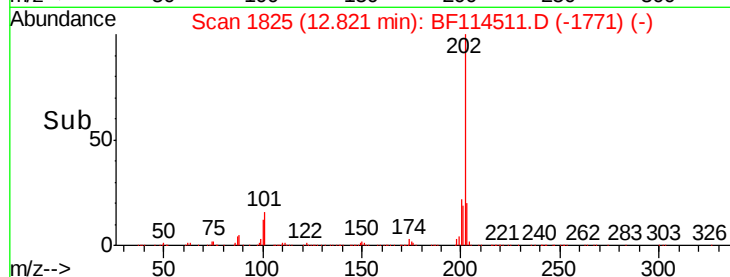
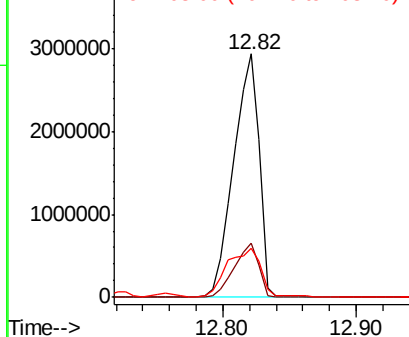


Abundance

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: 23.495 ng
RT: 12.94 min Scan# 1845
Delta R.T. 0.00 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

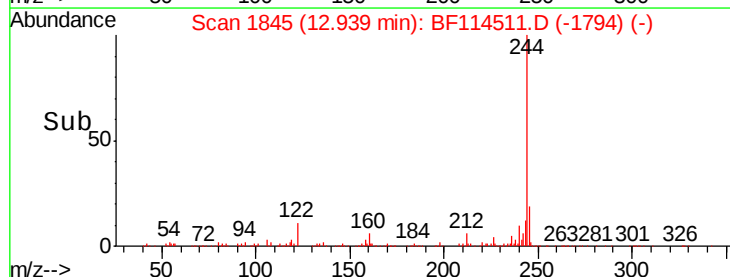
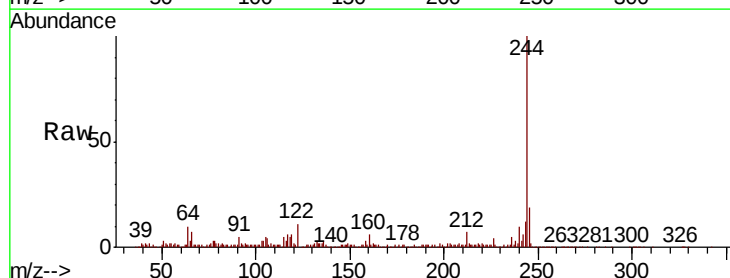
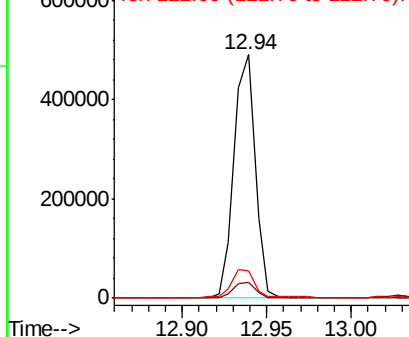
Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.8	8.6
122	11.2	9.4	14.2

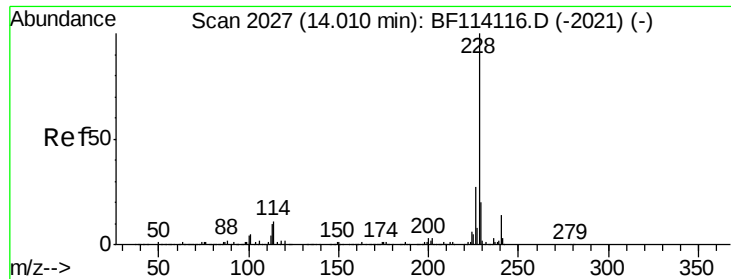
Abundance

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





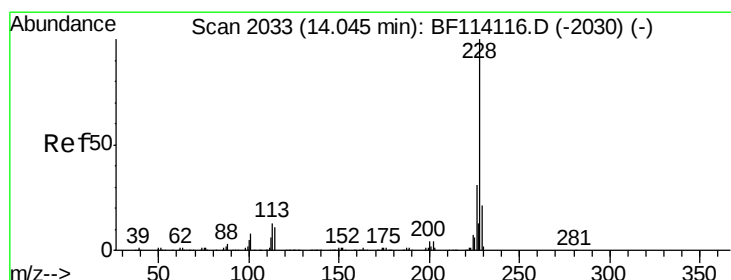
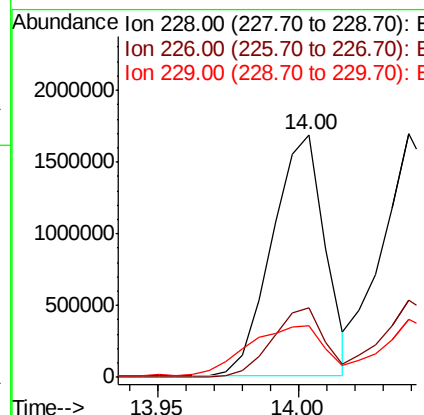
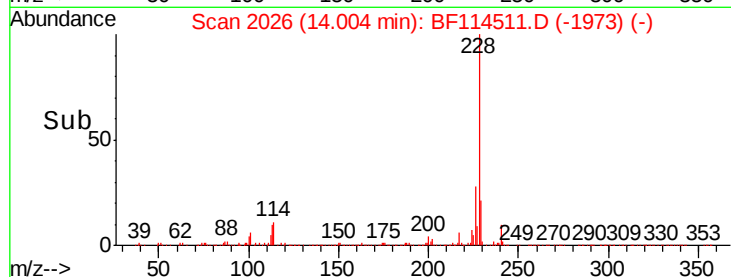
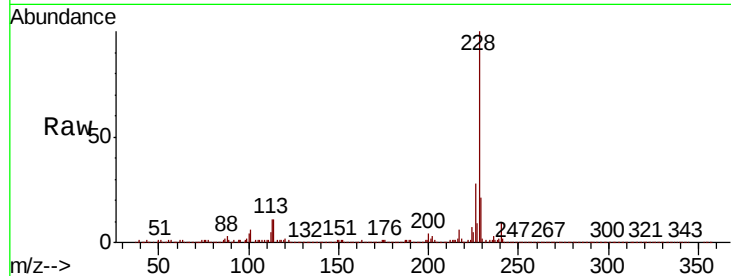
#81
Benzo(a)anthracene
Concen: 89.923 ng
RT: 14.00 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampleId :
TP-14-S

Tot Ion:228 Resp: 2187899
Ion Ratio Lower Upper
228 100
226 28.5 22.2 33.2
229 21.4 16.4 24.6

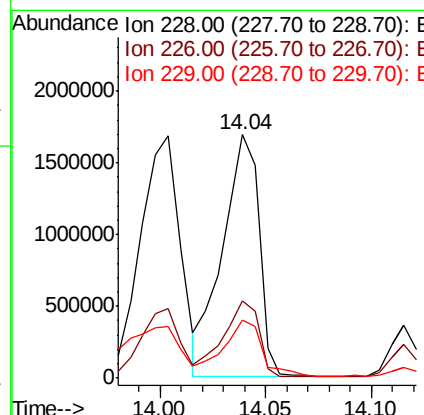
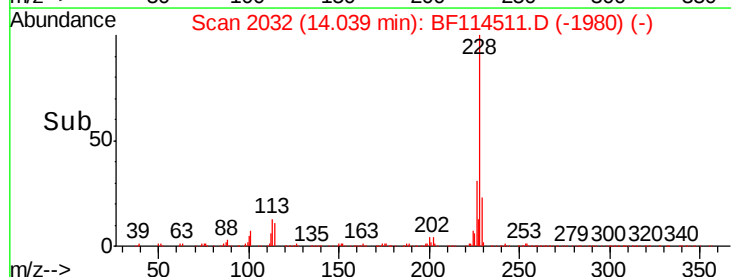
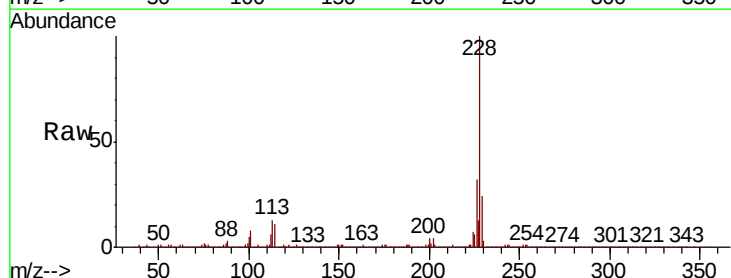
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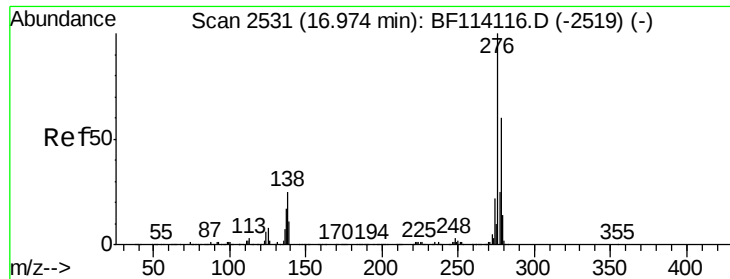
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#83
Chrysene
Concen: 85.022 ng
RT: 14.04 min Scan# 2032
Delta R.T. 0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Tgt Ion:228 Resp: 2027856
Ion Ratio Lower Upper
228 100
226 31.6 25.0 37.6
229 23.8 17.0 25.6





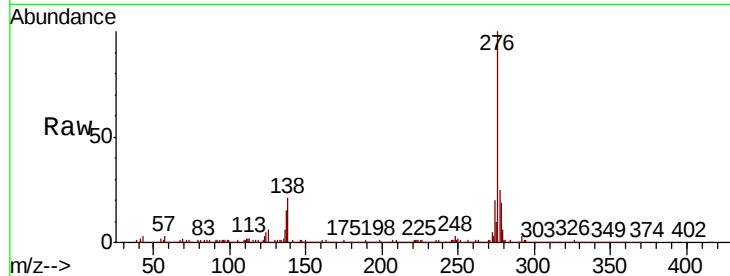
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 40.665 ng
 RT: 16.97 min Scan# 2530
 Delta R.T. 0.02 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

Instrument :
 BNA_F
 ClientSampleId :
 TP-14-S

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.6	20.2	30.2
277	24.8	20.0	30.0

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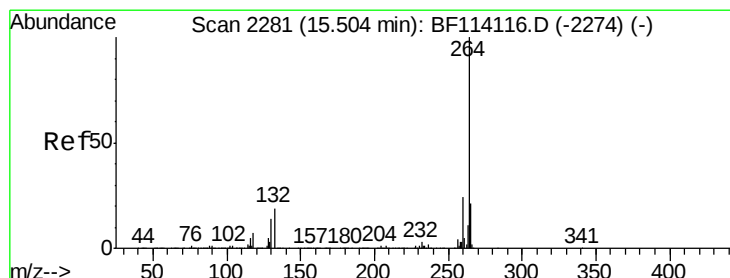
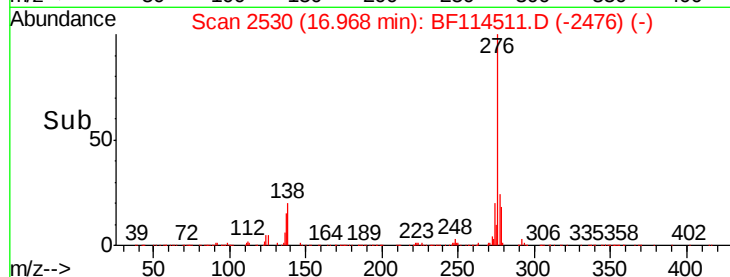
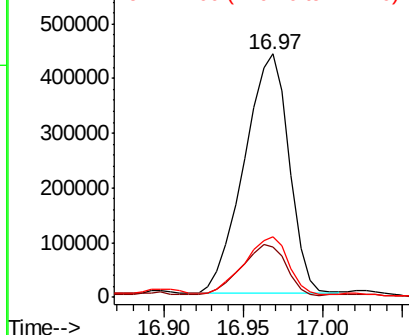


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.48 min Scan# 2277
 Delta R.T. 0.02 min
 Lab File: BF114511.D
 Acq: 23 May 2019 3:52

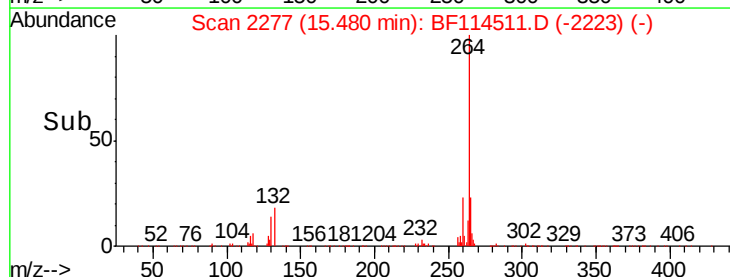
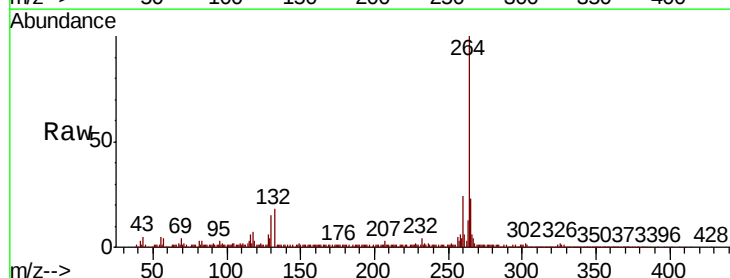
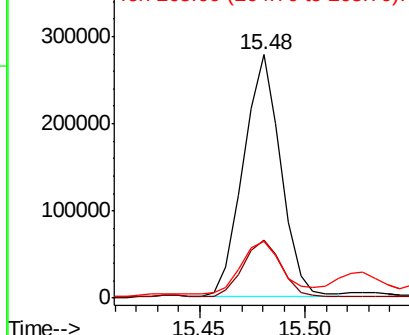
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.4	29.0
265	23.5	16.9	25.3

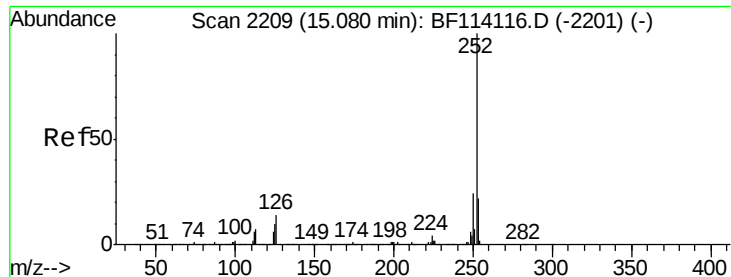
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





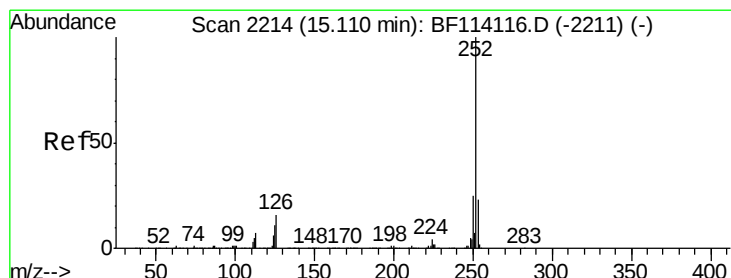
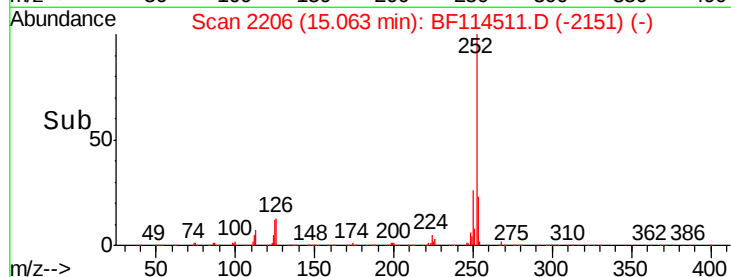
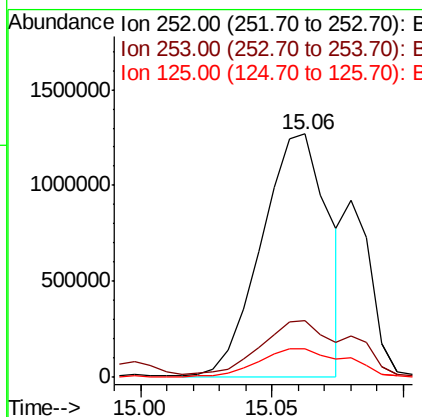
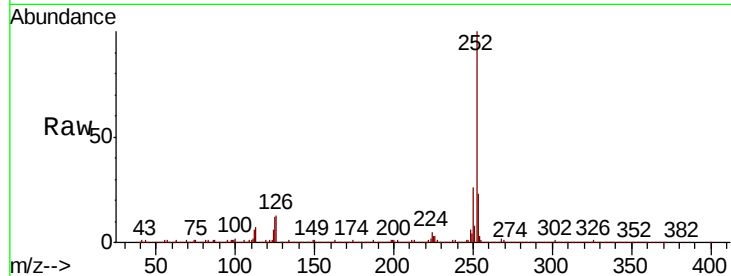
#88
Benzo(b)fluoranthene
Concen: 104.186 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.02 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampleId :
TP-14-S

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.8
125	11.9	8.3	12.5

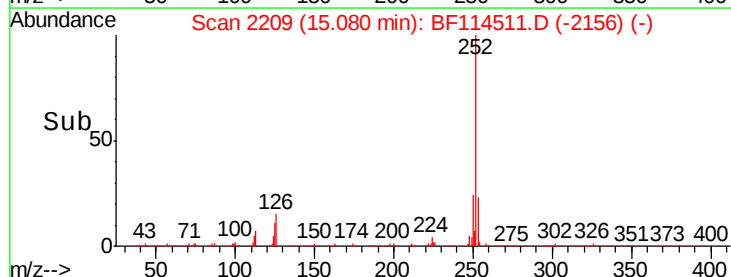
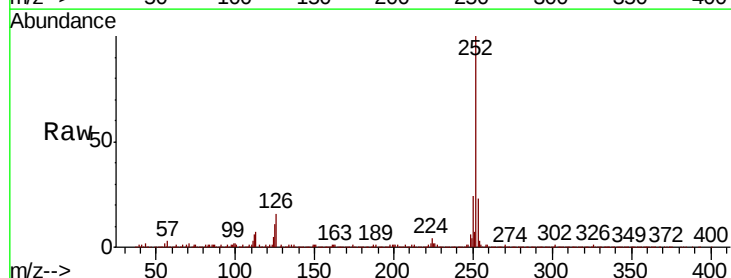
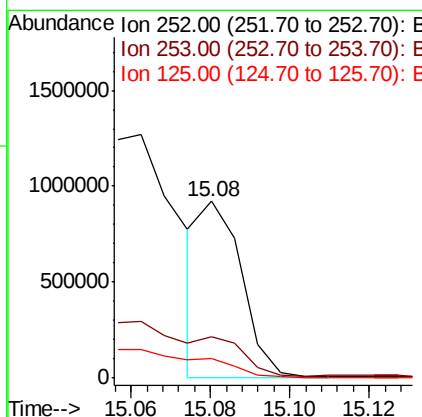
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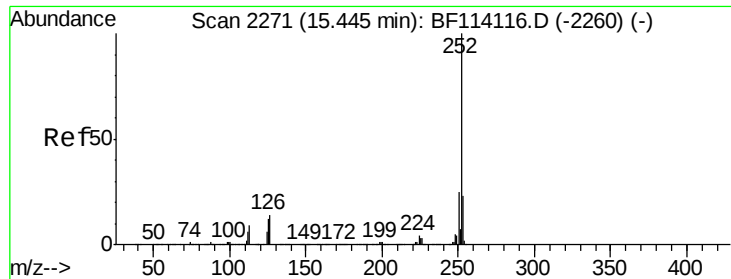
mohammad
5/24/2019 8:49:41 AM



#89
Benzo(k)fluoranthene
Concen: 32.987 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.2
125	11.2	8.6	13.0





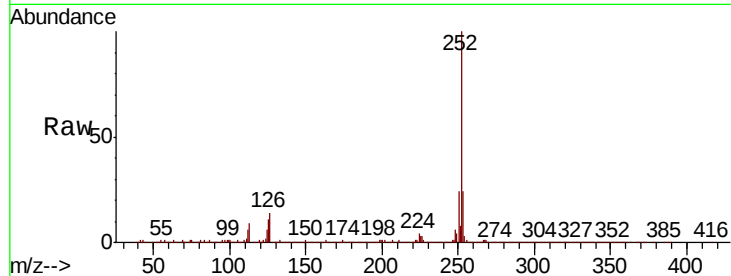
#90
Benzo(a)pyrene
Concen: 81.373 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.02 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

Instrument :
BNA_F
ClientSampleId :
TP-14-S

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.1	27.1
125	11.3	9.5	14.3

Manual Integrations
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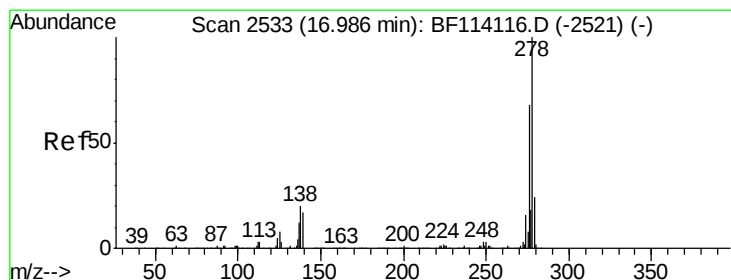
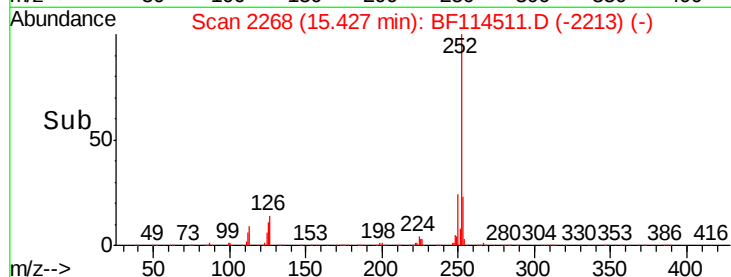
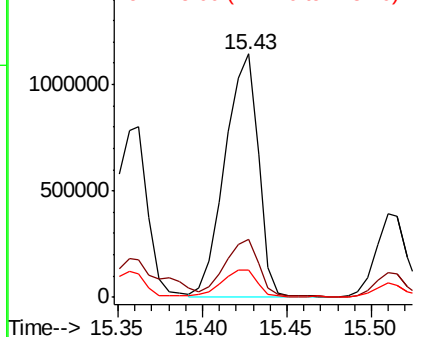


Abundance

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



#91
Dibenzo(a,h)anthracene
Concen: 13.421 ng m
RT: 16.96 min Scan# 2529
Delta R.T. 0.01 min
Lab File: BF114511.D
Acq: 23 May 2019 3:52

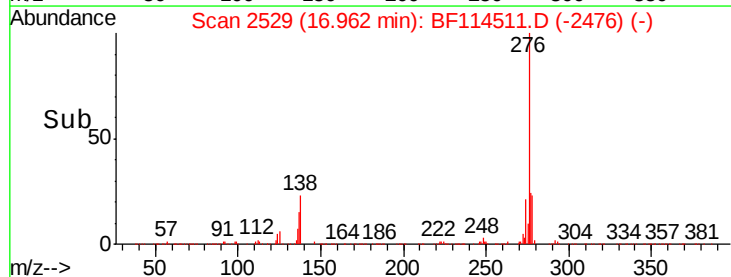
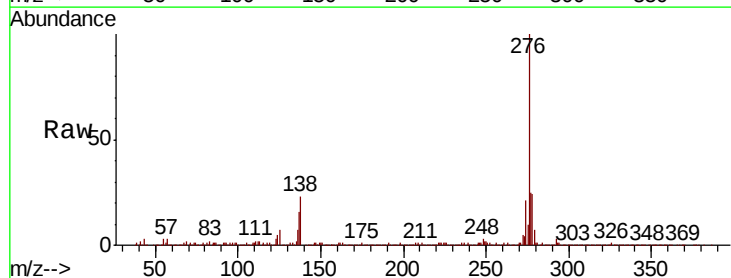
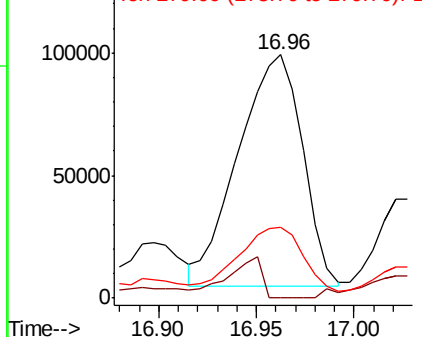
Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.5	20.3#
279	29.2	19.0	28.6#

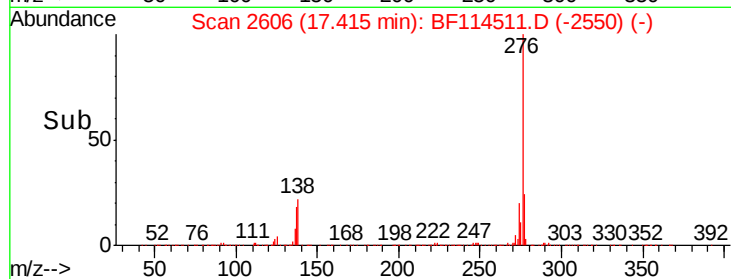
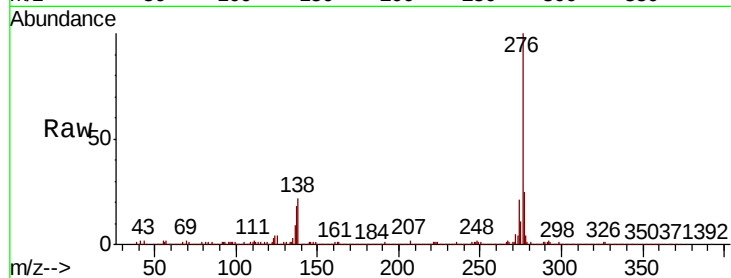
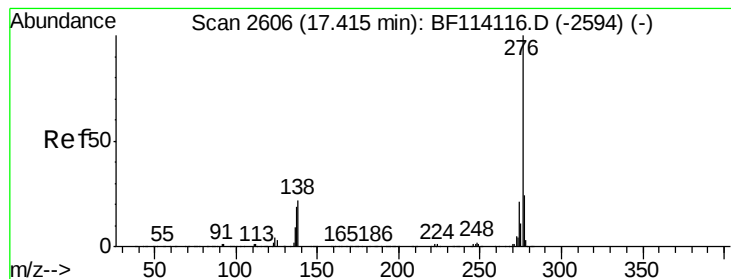
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 54.240 ng

RT: 17.42 min Scan# 2606

Delta R.T. 0.03 min

Lab File: BF114511.D

Acq: 23 May 2019 3:52

Tot Ion:	276	Resp:	867423
Ion Ratio		Lower	Upper
276	100		
277	24.6	19.0	28.4
138	21.9	17.8	26.6

Instrument :

BNA_F

ClientSampleId :

TP-14-S

Manual Integrations
APPROVED

mohammad
5/24/2019 8:49:41 AM

