

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
 Data File : BF116341.D
 Acq On : 17 Aug 2019 2:06
 Operator : HP/JU
 Sample : K4228-07
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 2S-F1-F4-COMP-(1)

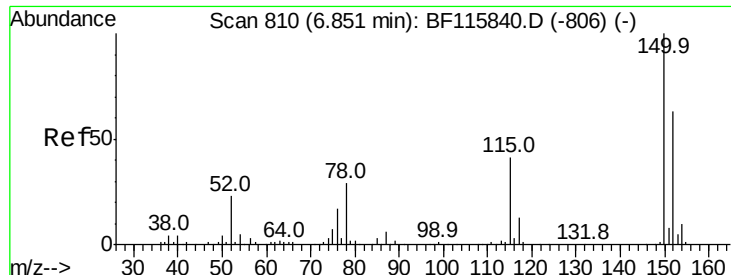
Manual Integrations
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 8/20/2019 8:37:22 AM

Quant Time: Aug 19 01:22:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 07 11:13:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	148084	20.00	ng	-0.03
21) Naphthalene-d8	8.10	136	559710	20.00	ng	-0.03
39) Acenaphthene-d10	9.85	164	273591	20.00	ng	-0.04
64) Phenanthrene-d10	11.33	188	423400	20.00	ng	-0.04
76) Chrysene-d12	13.97	240	258948	20.00	ng	-0.04
87) Perylene-d12	15.43	264	298278	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	866087	97.91	ng	-0.02
7) Phenol-d6	6.46	99	1138476	102.01	ng	-0.03
23) Nitrobenzene-d5	7.38	82	719546	74.21	ng	-0.04
42) 2,4,6-Tribromophenol	10.64	330	231289	87.20	ng	-0.04
45) 2-Fluorobiphenyl	9.17	172	1157484	79.24	ng	-0.04
79) Terphenyl-d14	12.92	244	931901	75.83	ng	-0.04
Target Compounds						
10) Phenol	6.47	94	54937	4.180	ng	91
50) Dimethylphthalate	9.56	163	103258	5.543	ng	99
52) Acenaphthene	9.88	154	51149	3.555	ng	98
58) Fluorene	10.40	166	45170	2.806	ng	97
71) Phenanthrene	11.36	178	671627	31.029	ng	99
72) Anthracene	11.41	178	213050	9.726	ng	98
73) Carbazole	11.57	167	49877	2.510	ng	99
75) Fluoranthene	12.55	202	855739	37.764	ng	98
78) Pyrene	12.78	202	709625	36.354	ng	99
81) Benzo(a)anthracene	13.96	228	350129	21.155	ng	99
83) Chrysene	14.00	228	298419	18.572	ng	98
86) Indeno(1,2,3-cd)pyrene	16.90	276	116527	8.634	ng	96
88) Benzo(b)fluoranthene	15.02	252	339836m	19.704	ng	
89) Benzo(k)fluoranthene	15.04	252	102322m	6.091	ng	
90) Benzo(a)pyrene	15.37	252	232294	15.067	ng	99
91) Dibenzo(a,h)anthracene	16.90	278	29240m	2.191	ng	
92) Benzo(a,h,i)perylene	17.34	276	100973	7.704	ng	98

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



#1

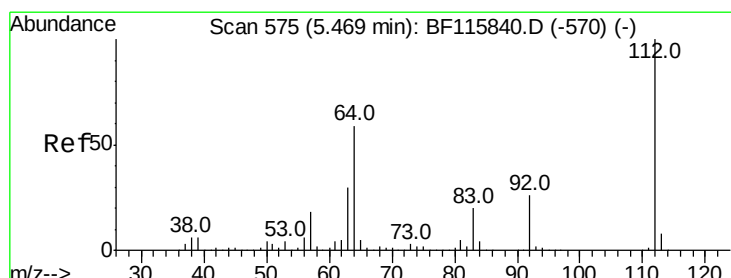
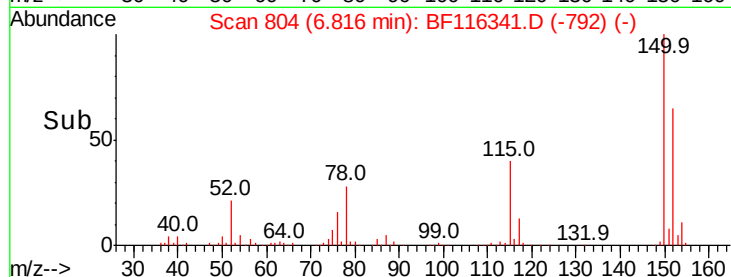
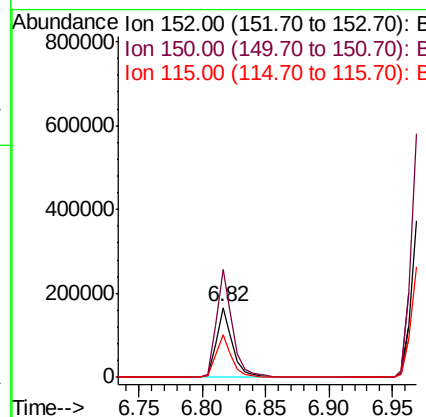
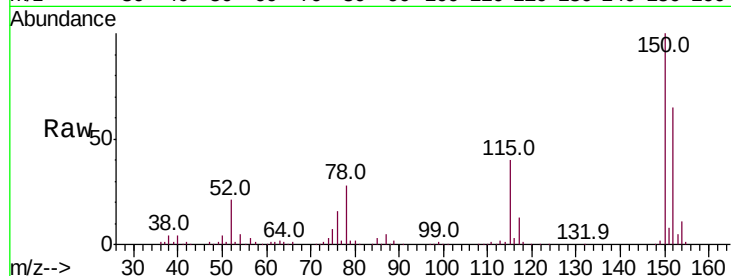
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.03 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	126.2	189.2
115	61.8	49.9	74.9

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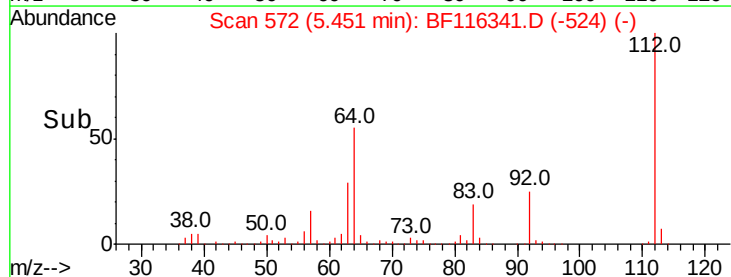
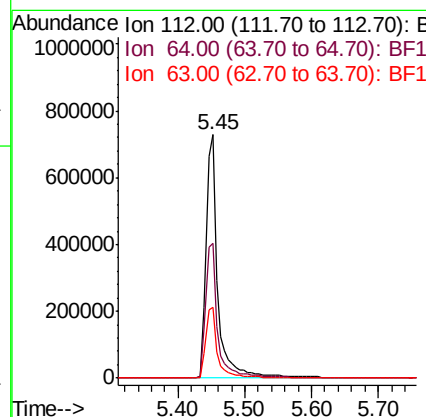
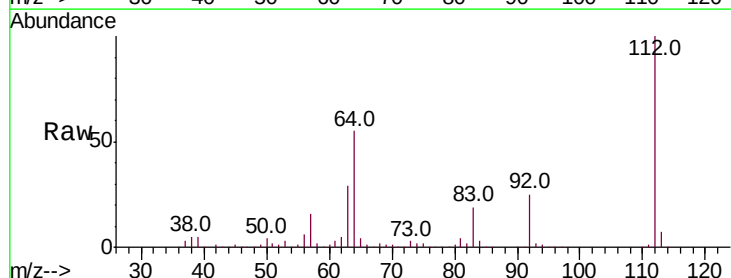
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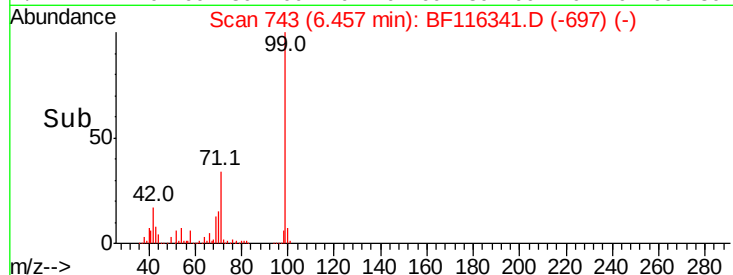
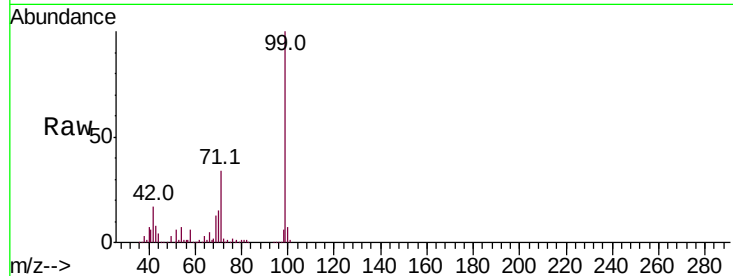
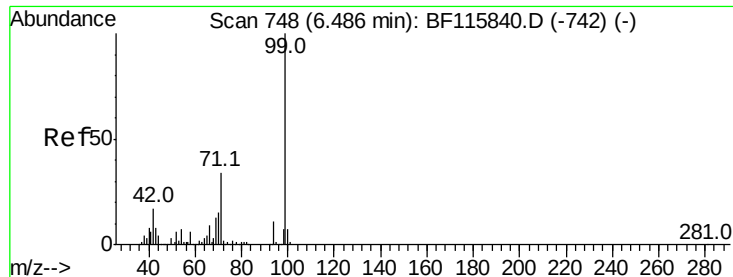


#5

2-Fluorophenol
Concen: 97.910 ng
RT: 5.45 min Scan# 572
Delta R.T. -0.02 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	45.4	68.2
63	28.9	23.7	35.5





#7

Phenol-d6

Concen: 102.009 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

Tot Ion: 99 Resp: 1138476

Ion Ratio Lower Upper

99 100

42 17.2 13.8 20.8

71 33.8 27.3 40.9

Instrument :

BNA_F

ClientSampleId :

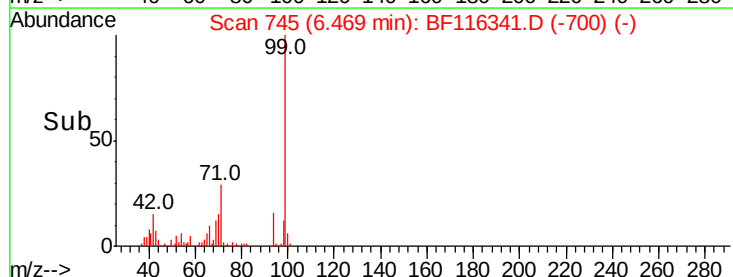
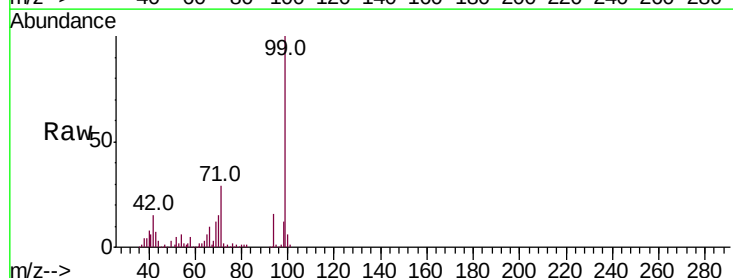
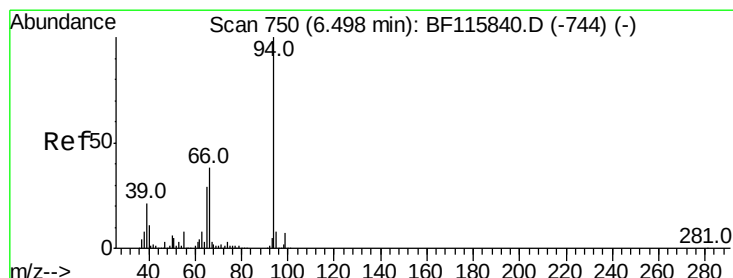
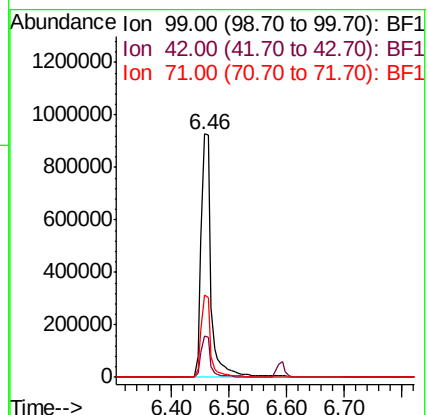
2S-F1-F4-COMP-(1)

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#10

Phenol

Concen: 4.180 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.04 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

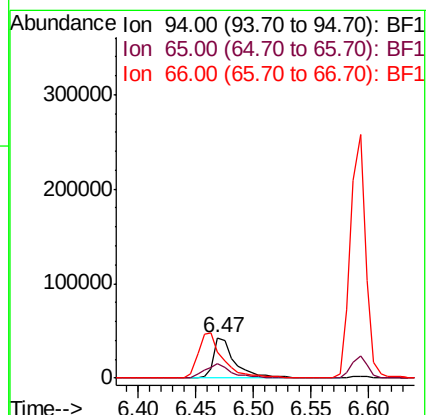
Tgt Ion: 94 Resp: 54937

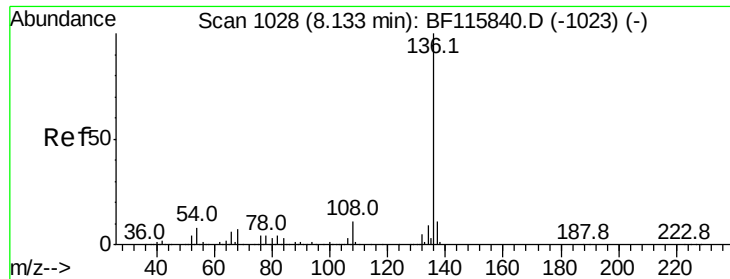
Ion Ratio Lower Upper

94 100

65 34.8 16.8 56.8

66 63.3 34.2 74.2





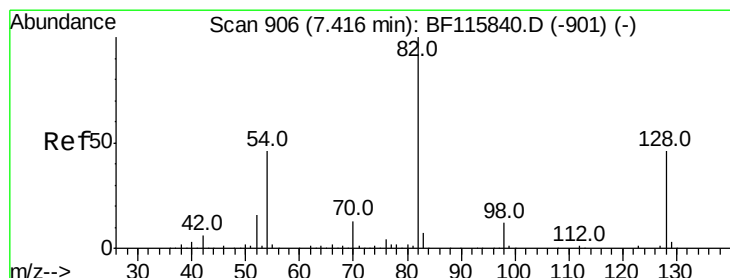
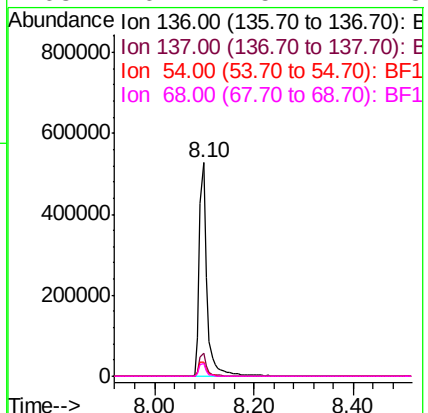
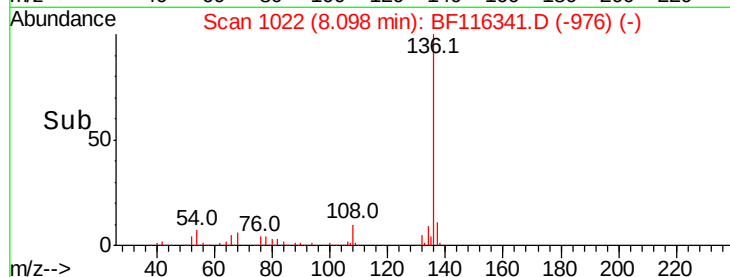
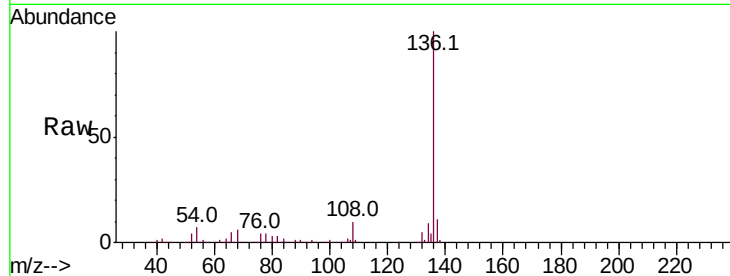
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.03 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.8	9.0	13.4	
54	6.8	5.8	8.6	
68	6.2	5.2	7.8	

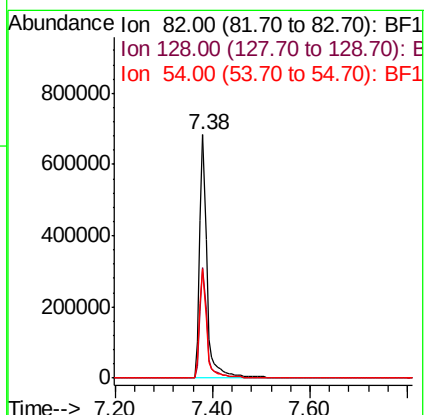
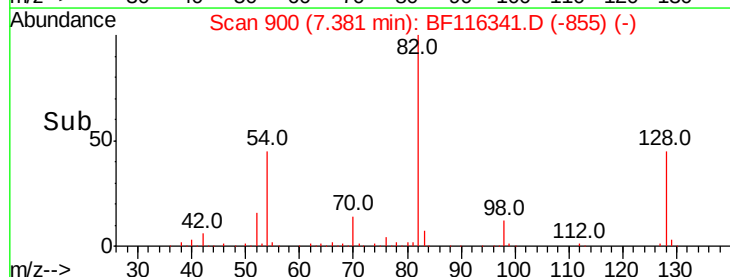
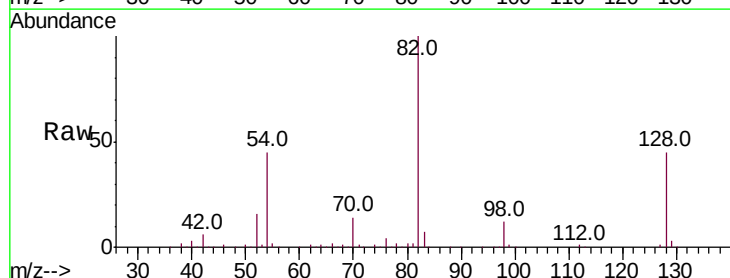
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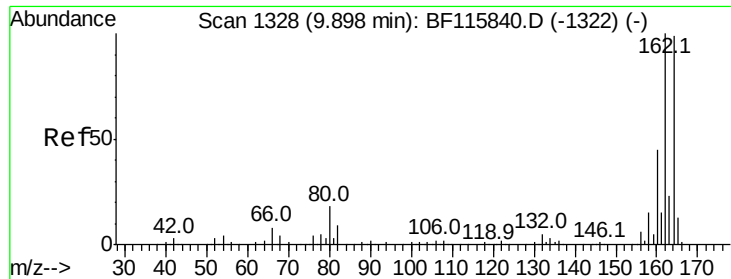
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#23
Nitrobenzene-d5
Concen: 74.207 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.4	36.5	54.7	
54	44.8	36.0	54.0	





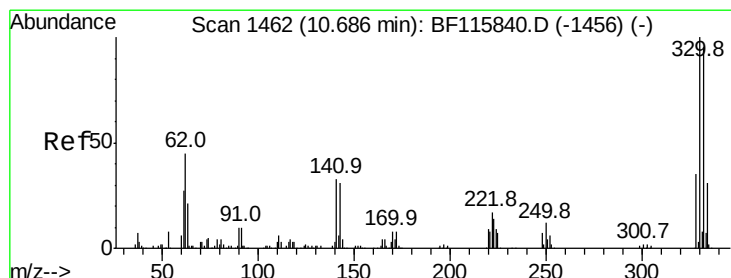
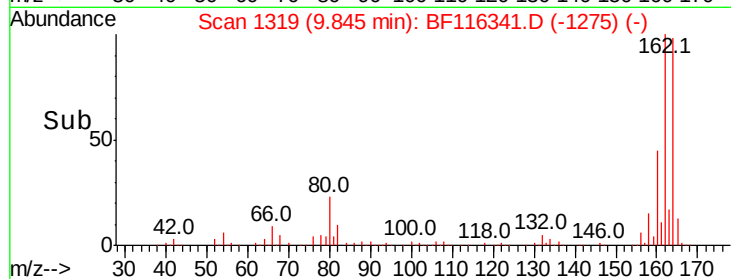
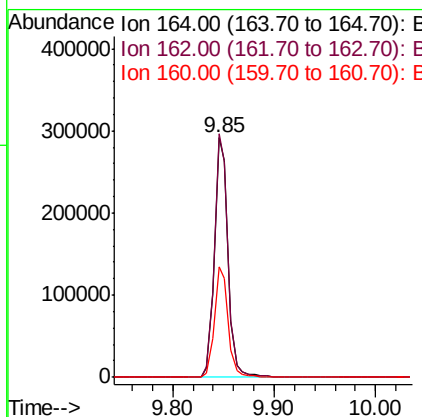
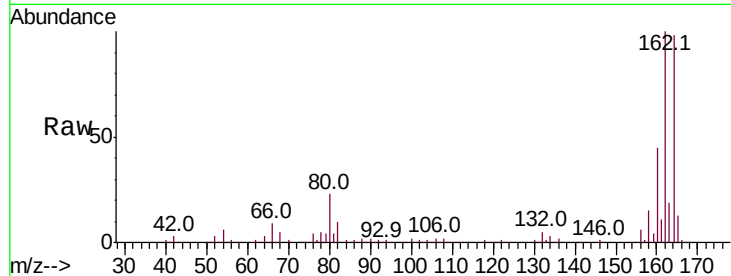
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Resp	Lower	Upper
164	100	273591		
162	101.6	82.6	124.0	
160	46.0	37.6	56.4	

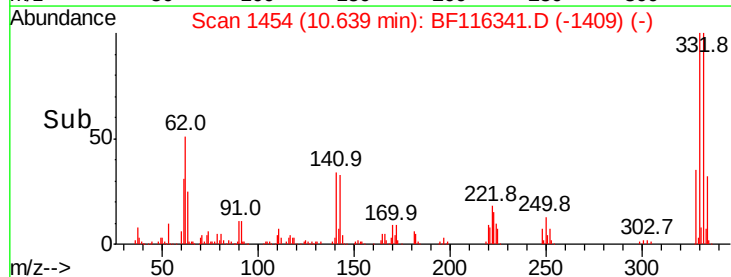
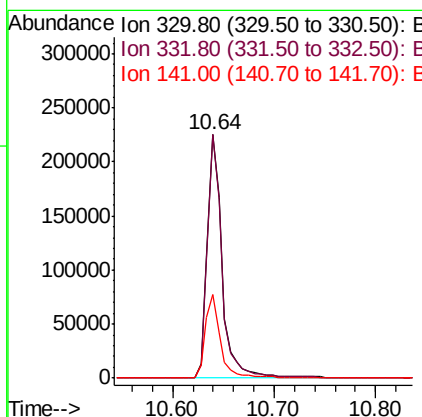
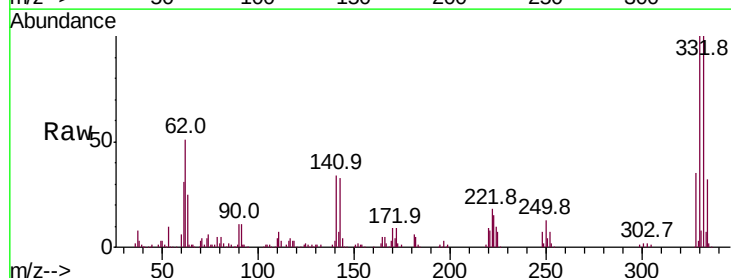
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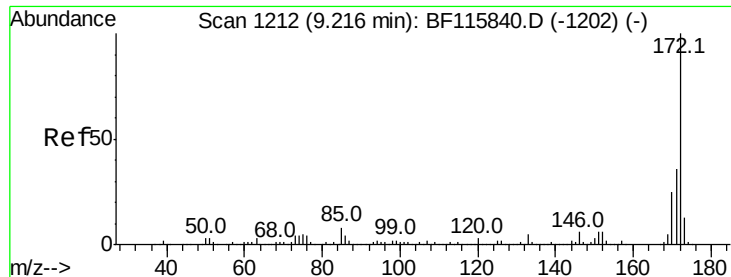
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#42
2,4,6-Tribromophenol
Concen: 87.195 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	231289		
332	98.8	76.8	115.2	
141	34.7	26.3	39.5	





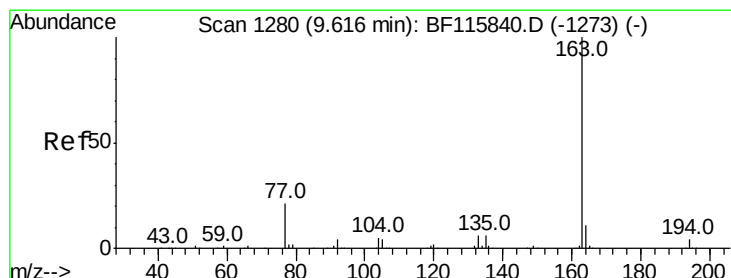
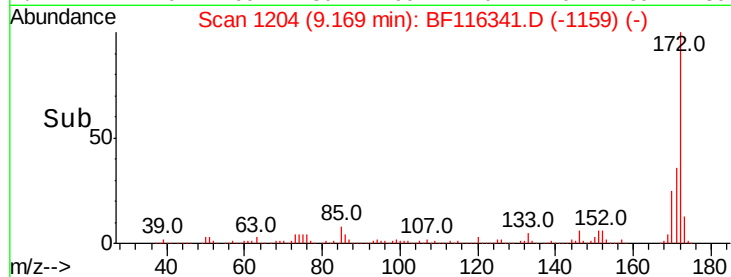
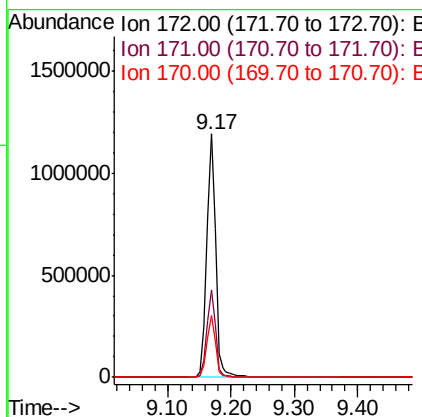
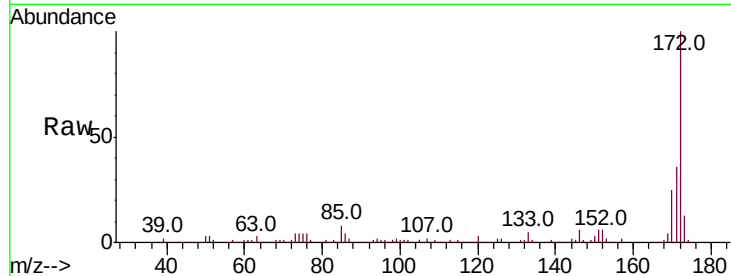
#45
2-Fluorobiphenyl
Concen: 79.244 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.6	44.4
170	25.2	20.1	30.1

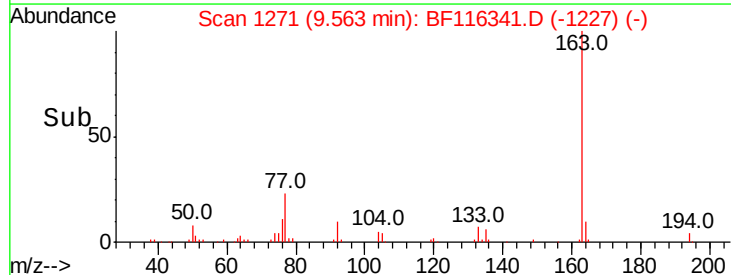
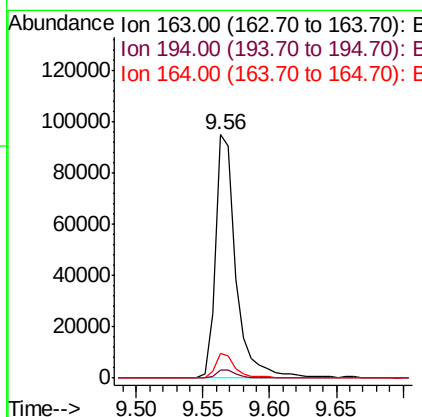
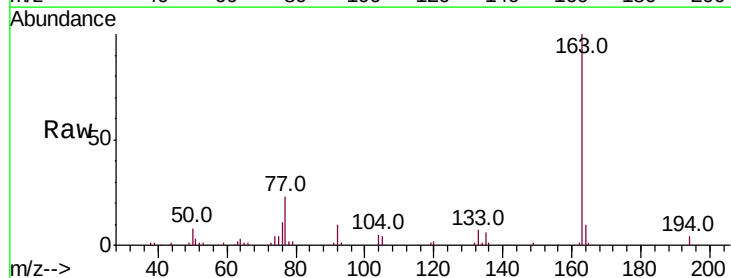
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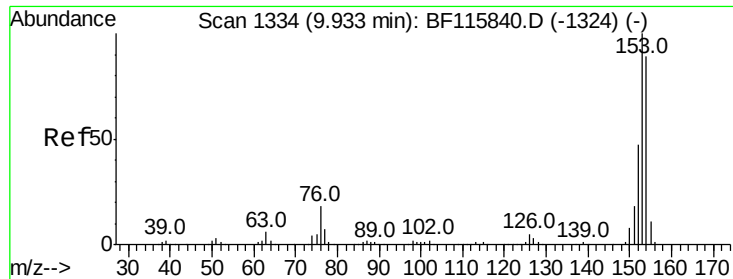
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#50
Dimethylphthalate
Concen: 5.543 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.6
164	10.2	8.4	12.6





#52

Acenaphthene

Concen: 3.555 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.04 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

Instrument :

BNA_F

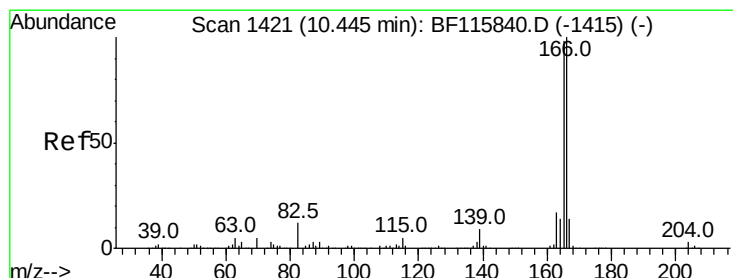
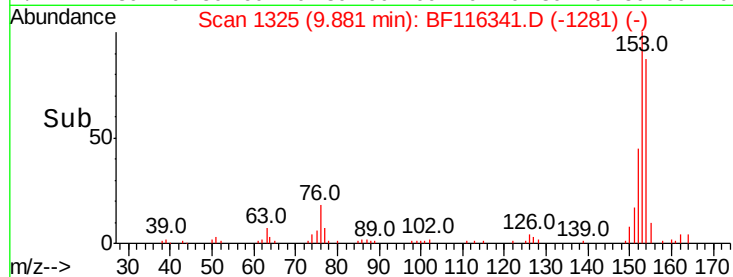
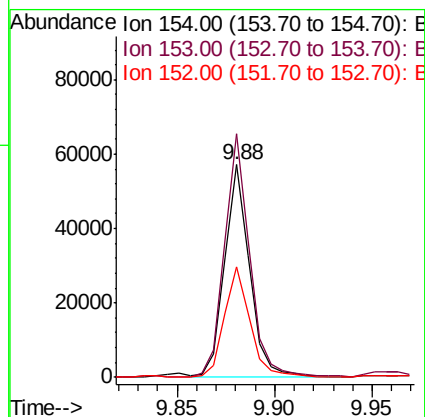
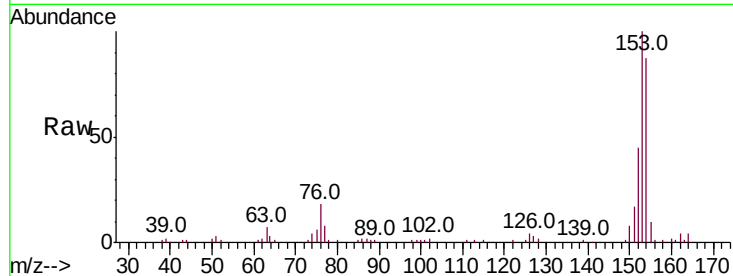
ClientSampleId :

2S-F1-F4-COMP-(1)

Tot Ion:	154	Resp:	51149
Ion Ratio	Lower	Upper	
154	100		
153	114.5	89.4	134.0
152	52.0	42.3	63.5

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#58

Fluorene

Concen: 2.806 ng

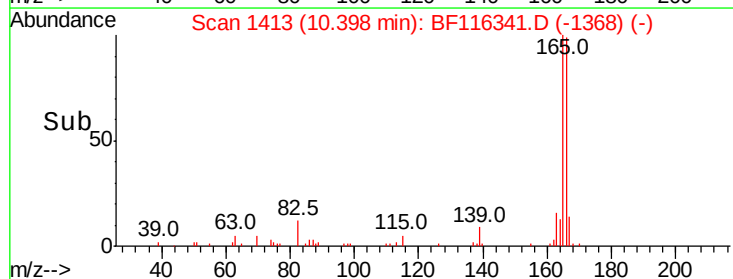
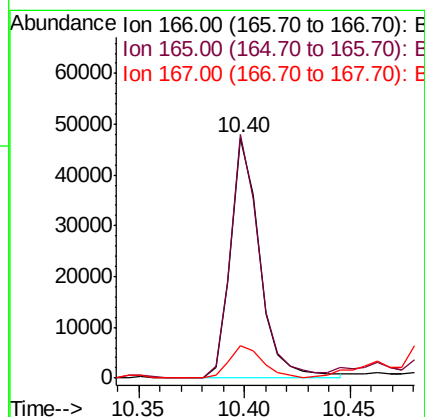
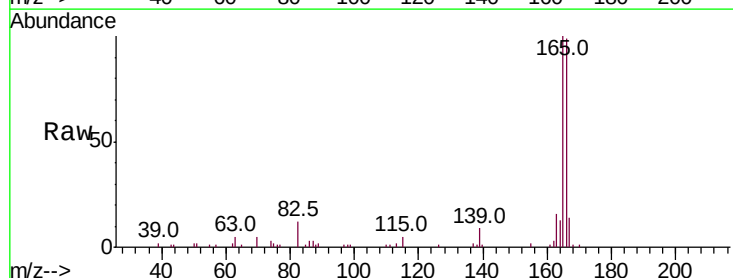
RT: 10.40 min Scan# 1413

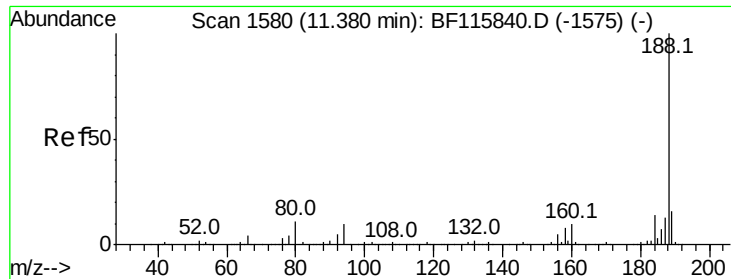
Delta R.T. -0.04 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

Tgt Ion:	166	Resp:	45170
Ion Ratio	Lower	Upper	
166	100		
165	101.5	78.4	117.6
167	13.7	11.0	16.4





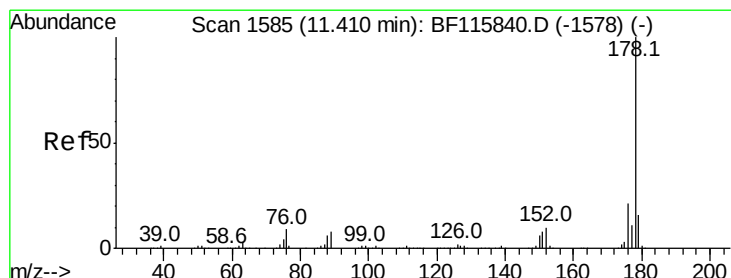
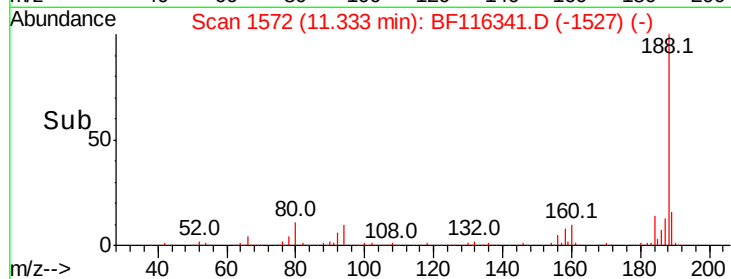
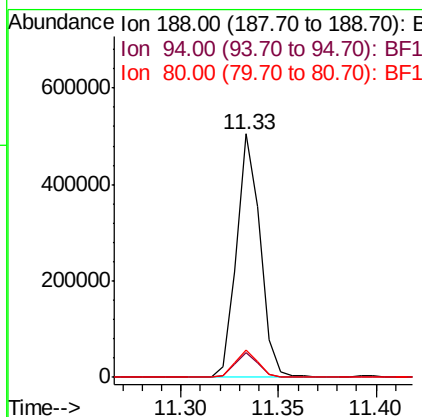
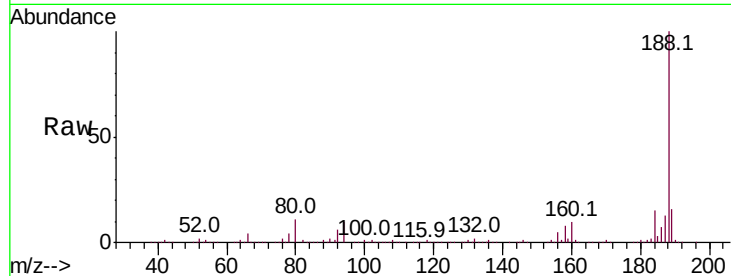
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	423400		
94	10.2	8.1	12.1	
80	11.4	8.7	13.1	

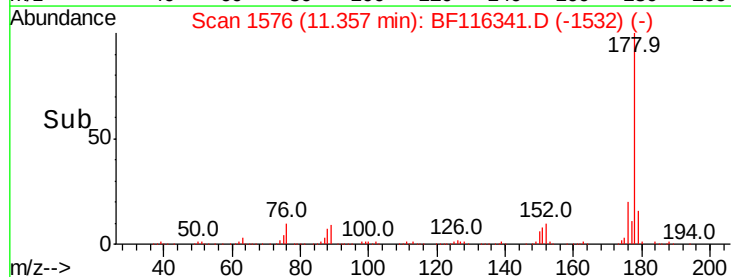
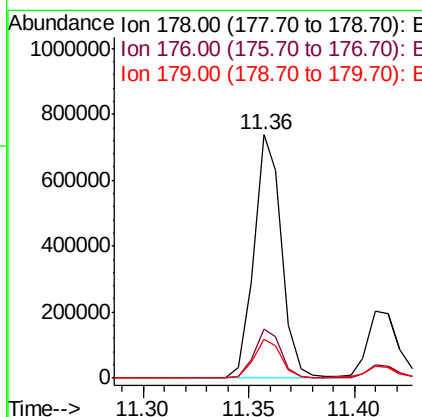
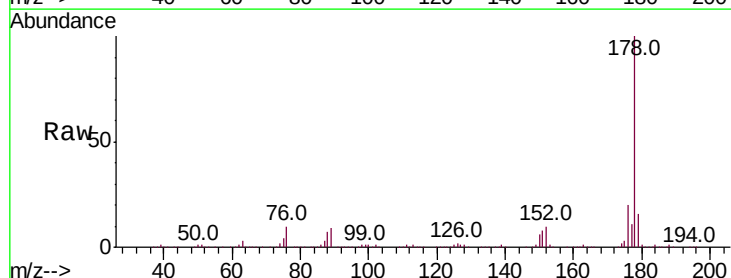
Manual Integrations
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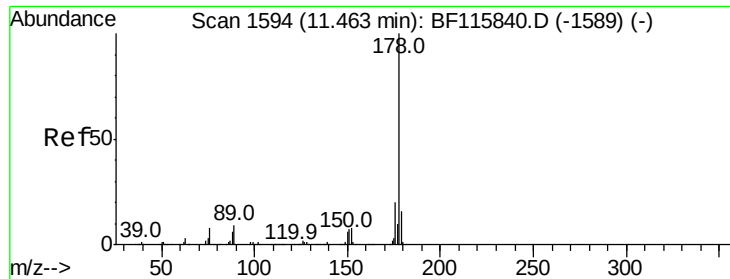
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#71
Phenanthrene
Concen: 31.029 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	671627		
176	19.9	16.6	24.8	
179	15.9	12.5	18.7	





#72

Anthracene

Concen: 9.726 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.04 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

Instrument :

BNA_F

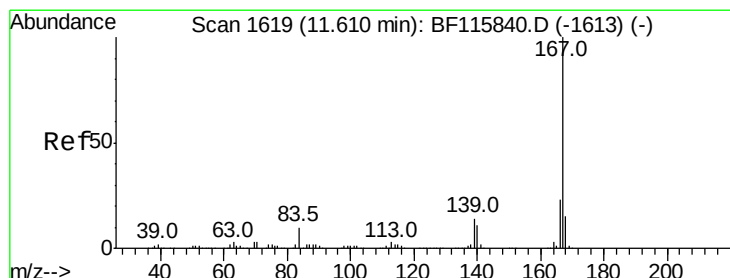
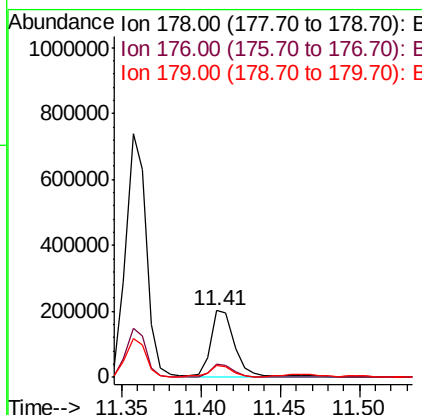
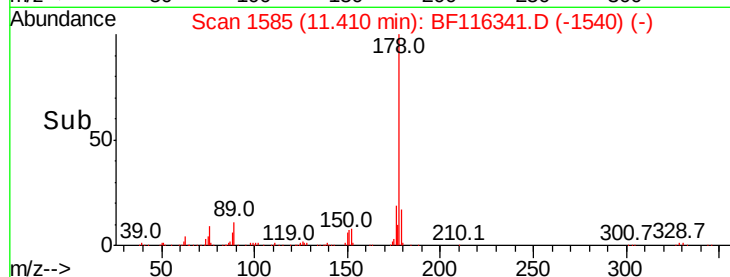
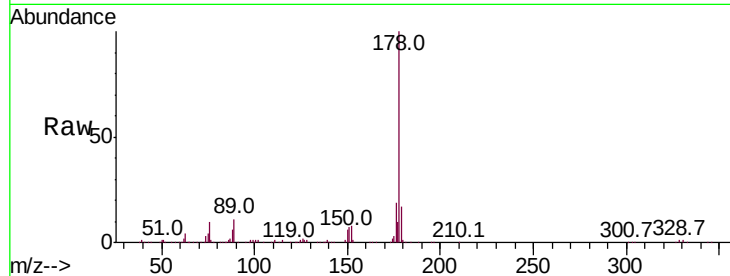
ClientSampleId :

2S-F1-F4-COMP-(1)

Tot Ion:	178	Resp:	213050
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.7	23.5
179	17.1	13.0	19.6

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#73

Carbazole

Concen: 2.510 ng

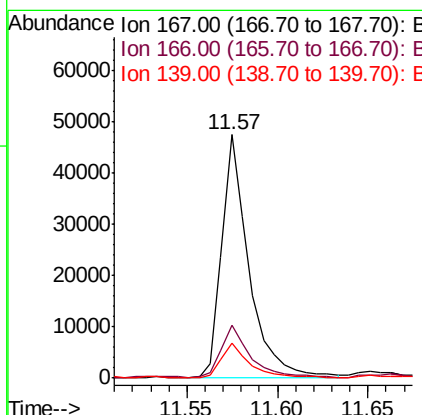
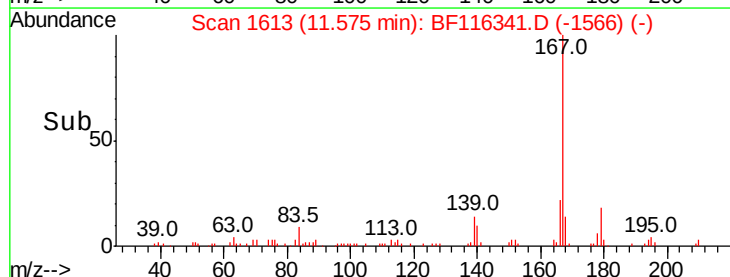
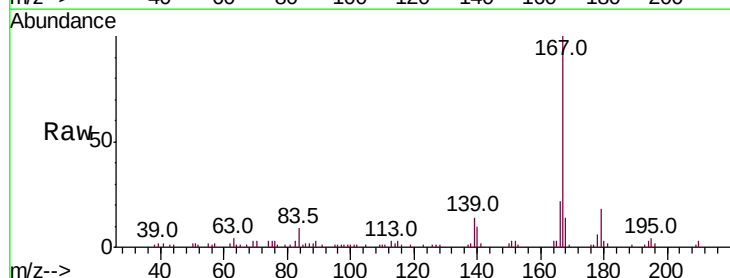
RT: 11.57 min Scan# 1613

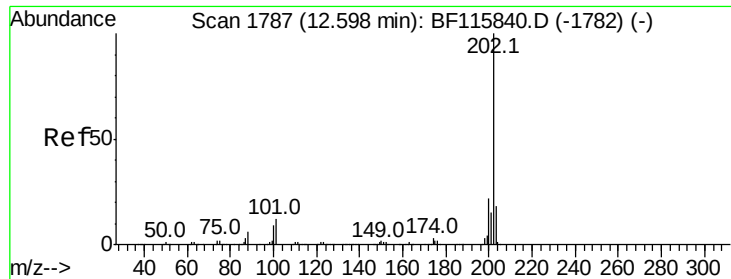
Delta R.T. -0.02 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

Tgt Ion:	167	Resp:	49877
Ion Ratio	Lower	Upper	
167	100		
166	21.7	17.8	26.6
139	14.4	11.4	17.0





#75

Fluoranthene

Concen: 37.764 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.04 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

Instrument :

BNA_F

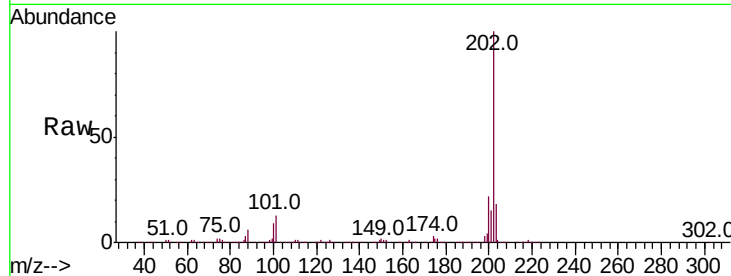
ClientSampleId :

2S-F1-F4-COMP-(1)

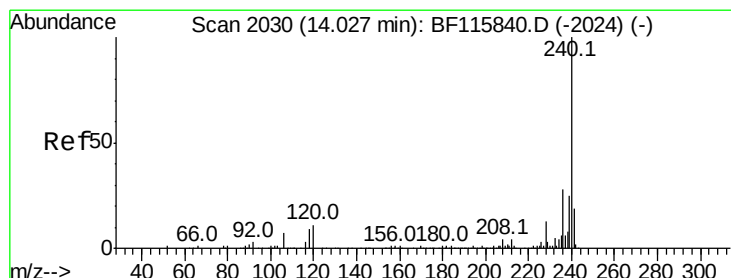
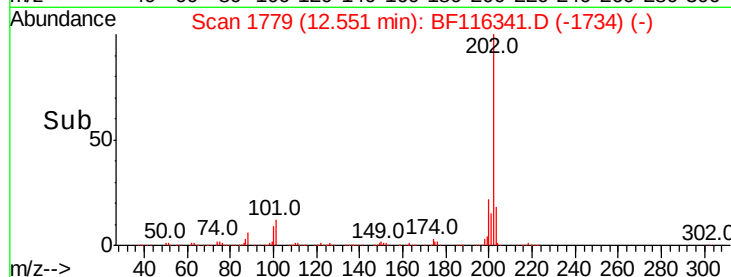
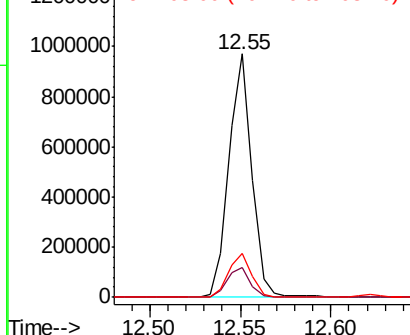
Tot Ion	Ratio	Resp	Lower	Upper
202	100	855739		
101	12.5	0.0	31.2	
203	18.3	0.0	37.8	

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



#76

Chrysene-d12

Concen: 20.000 ng

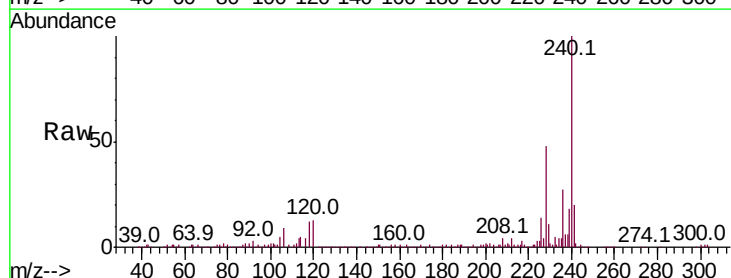
RT: 13.97 min Scan# 2021

Delta R.T. -0.04 min

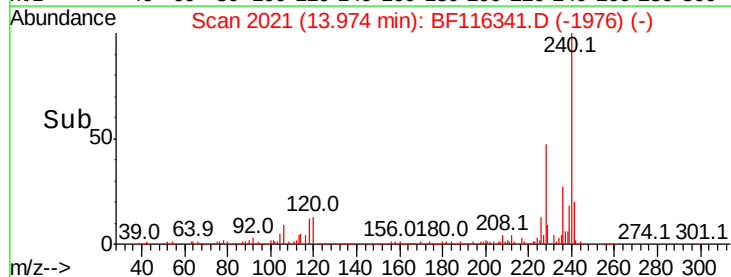
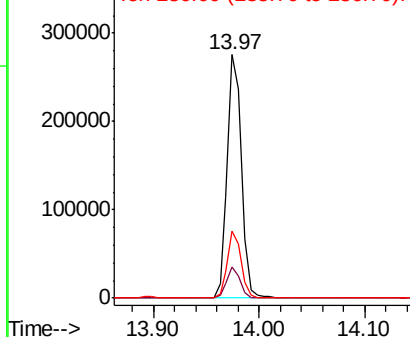
Lab File: BF116341.D

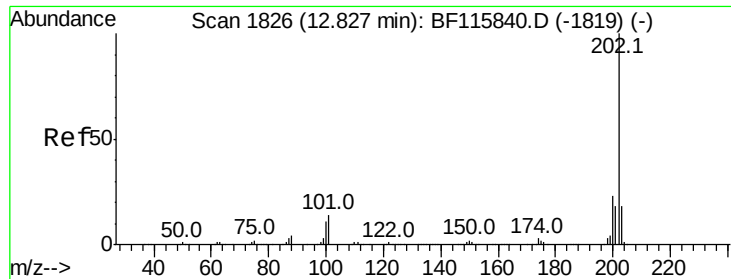
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	258948		
120	13.0	10.7	16.1	
236	27.4	22.2	33.2	



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





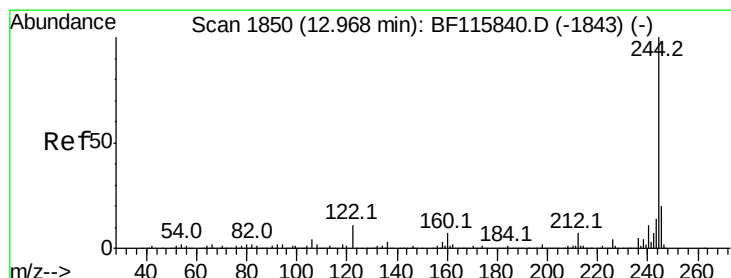
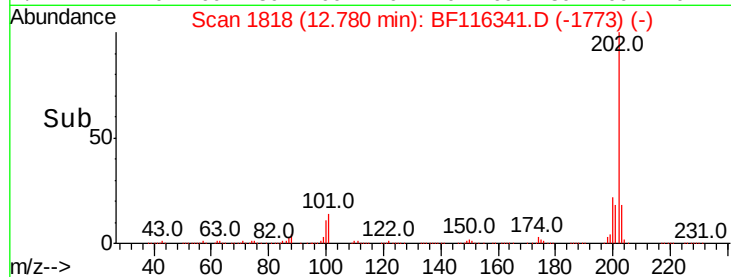
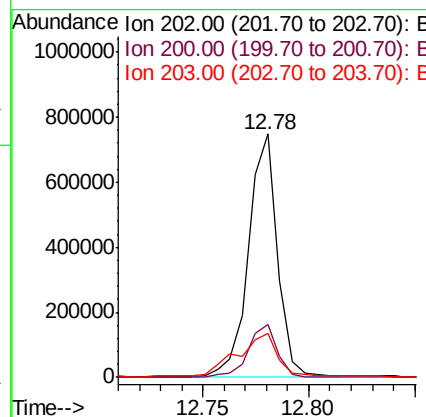
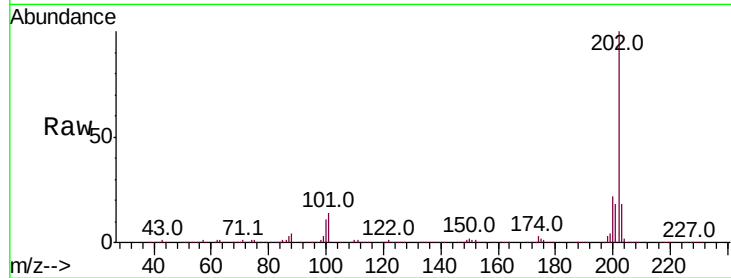
#78
Pvrene
Concen: 36.354 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.9	18.0	27.0
203	17.9	14.1	21.1

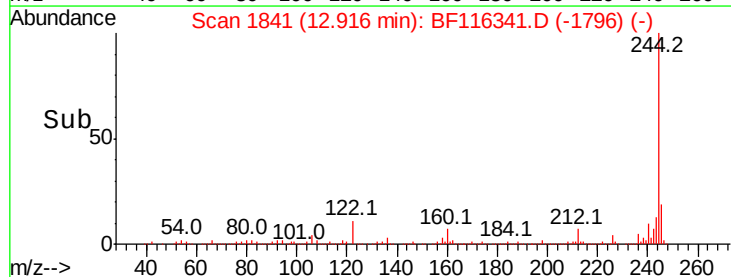
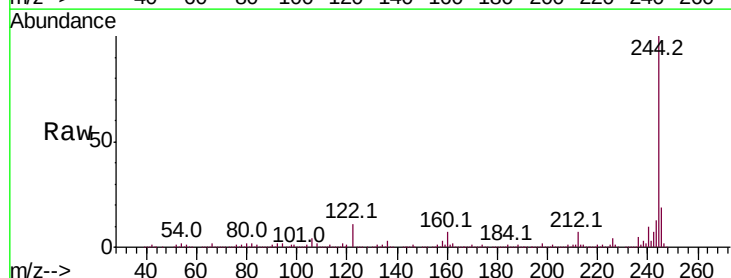
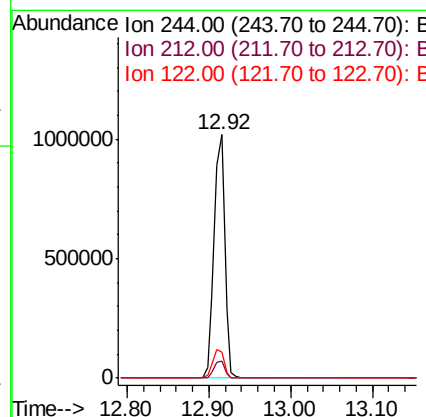
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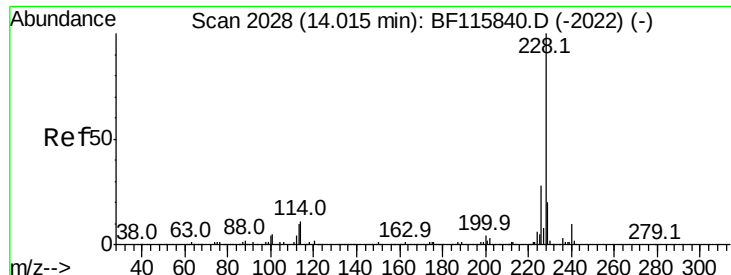
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#79
Terphenyl-d14
Concen: 75.833 ng
RT: 12.92 min Scan# 1841
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.9	5.8	8.8
122	10.8	9.0	13.4





#81

Benzo(a)anthracene

Concen: 21.155 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.04 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

Instrument :

BNA_F

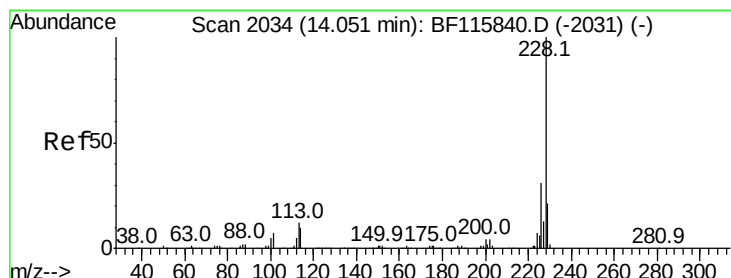
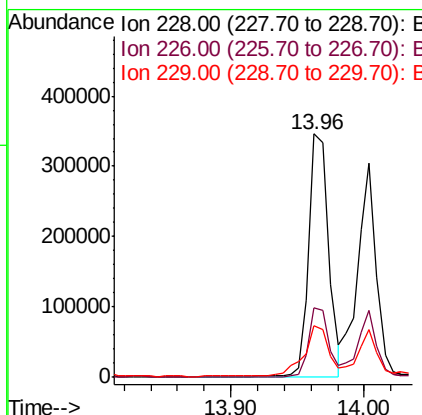
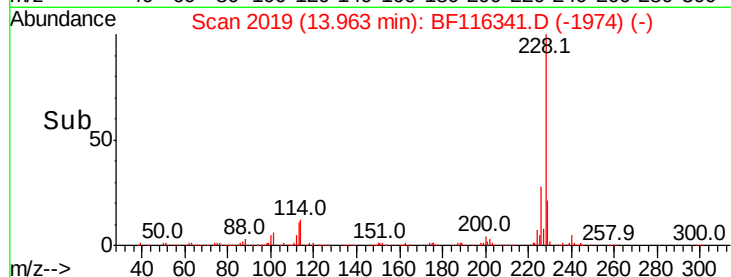
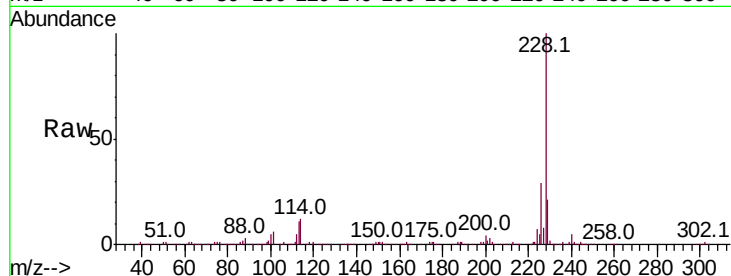
ClientSampleId :

2S-F1-F4-COMP-(1)

Tot Ion:	228	Resp:	350129
Ion Ratio	Lower	Upper	
228	100		
226	28.6	22.7	34.1
229	21.4	16.2	24.4

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#83

Chrysene

Concen: 18.572 ng

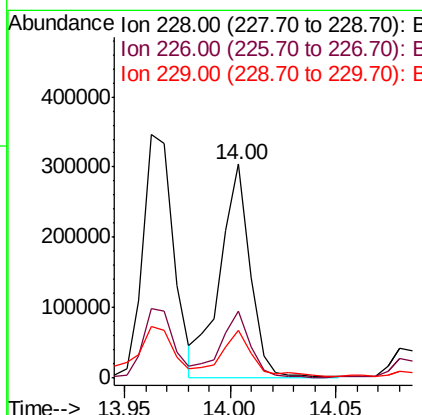
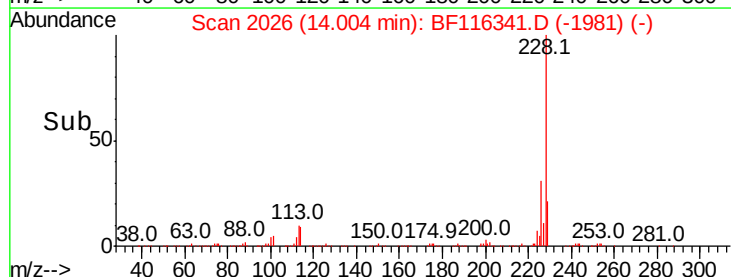
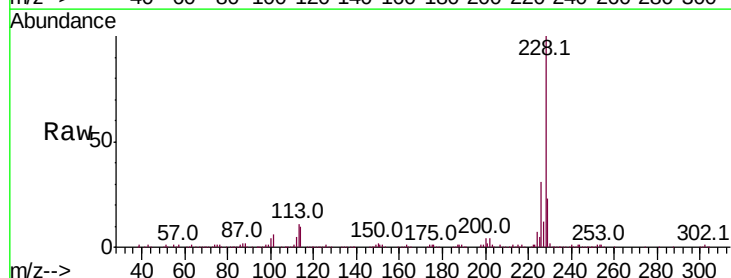
RT: 14.00 min Scan# 2026

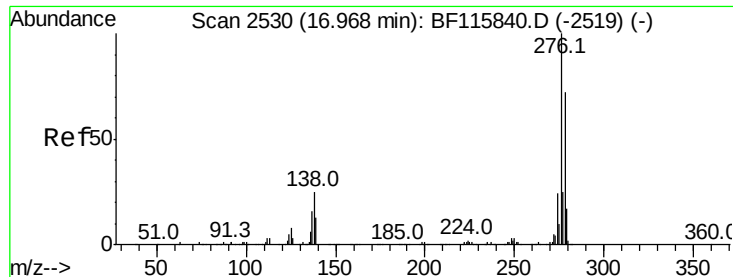
Delta R.T. -0.04 min

Lab File: BF116341.D

Acq: 17 Aug 2019 2:06

Tgt Ion:	228	Resp:	298419
Ion Ratio	Lower	Upper	
228	100		
226	31.3	25.5	38.3
229	22.5	16.6	24.8





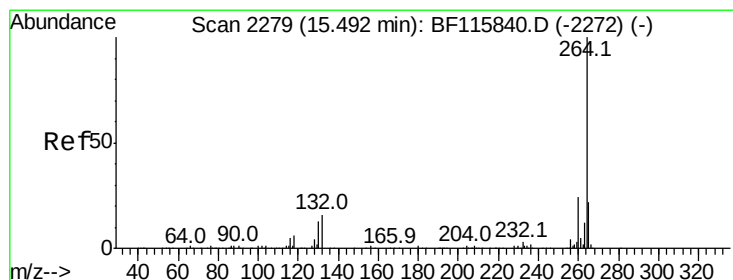
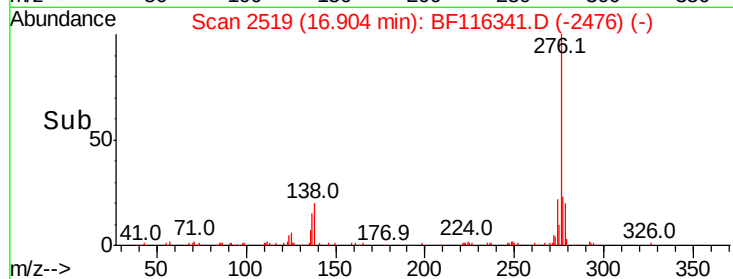
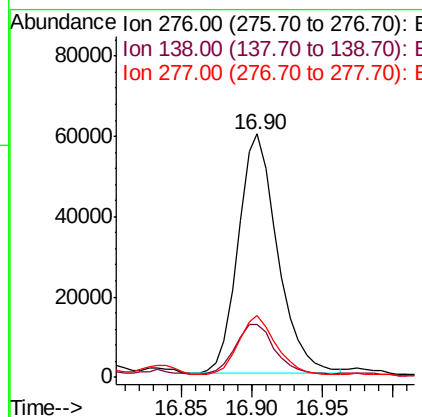
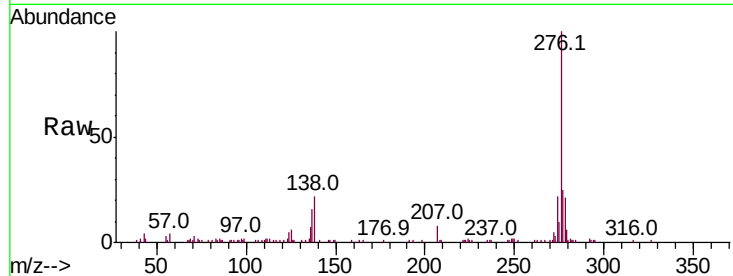
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 8.634 ng
 RT: 16.90 min Scan# 2519
 Delta R.T. -0.05 min
 Lab File: BF116341.D
 Acq: 17 Aug 2019 2:06

Instrument :
 BNA_F
 ClientSampleId :
 2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Resp	Lower	Upper
276	100	116527		
138	23.4	20.4	30.6	
277	22.9	20.0	30.0	

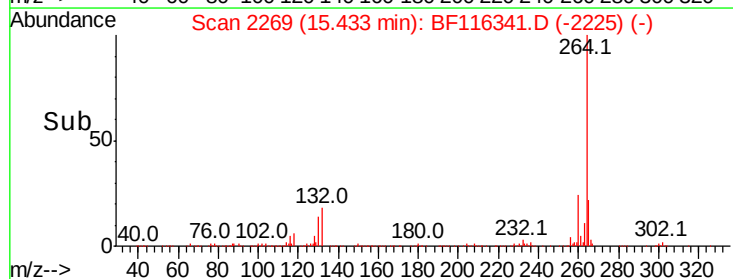
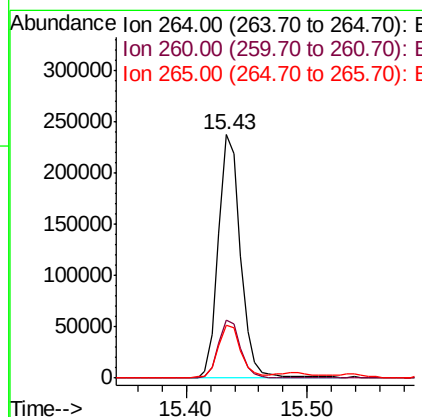
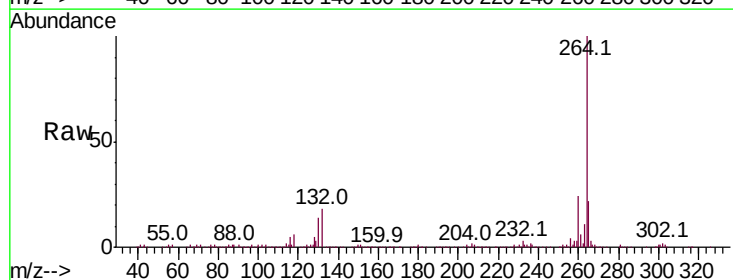
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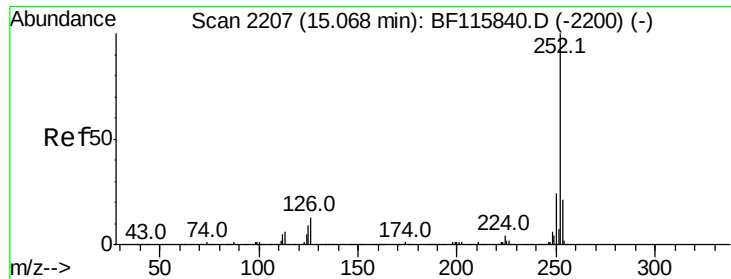
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.43 min Scan# 2269
 Delta R.T. -0.04 min
 Lab File: BF116341.D
 Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	298278		
260	23.8	19.7	29.5	
265	21.8	17.4	26.0	





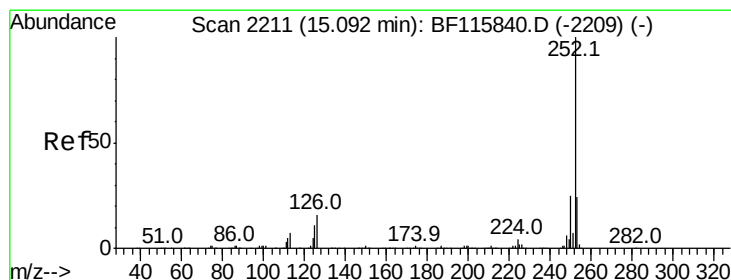
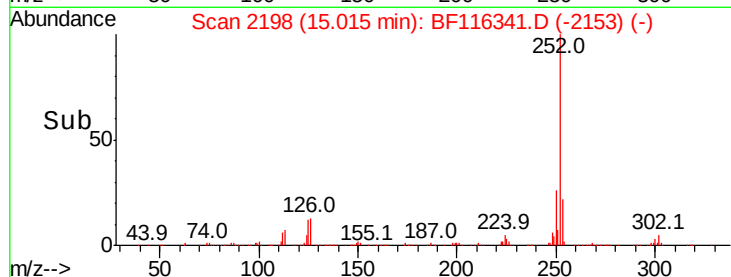
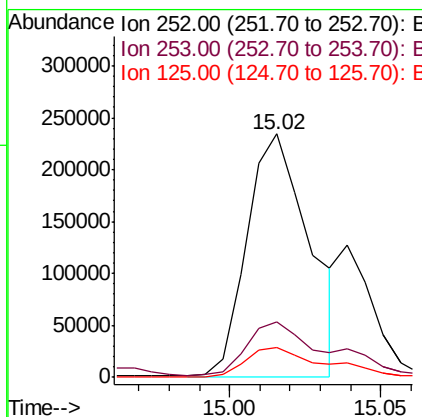
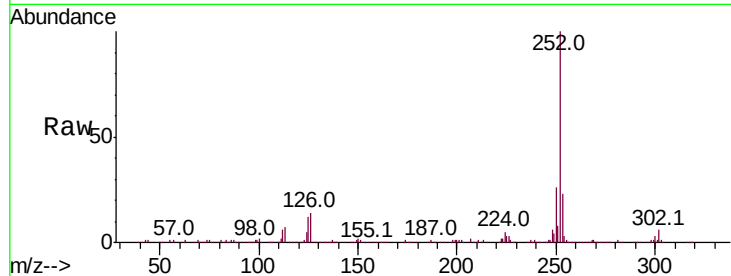
#88
Benzo(b)fluoranthene
Concen: 19.704 ng m
RT: 15.02 min Scan# 2198
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	12.0	8.4	12.6

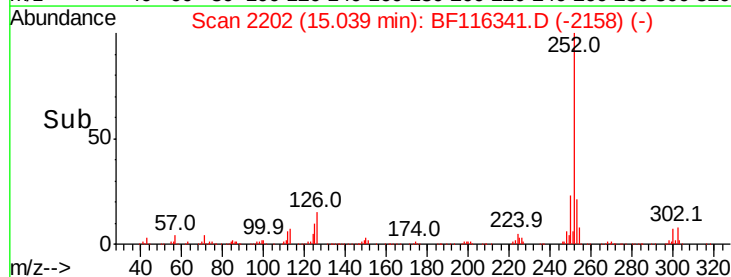
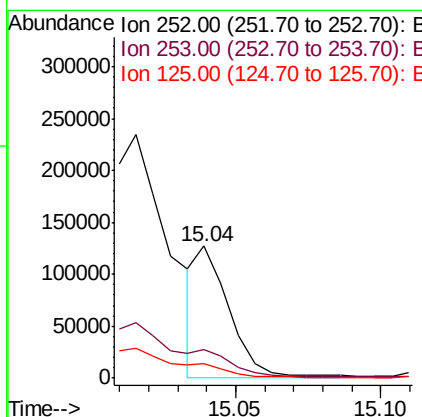
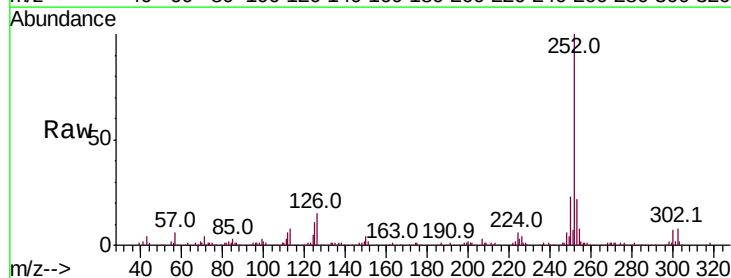
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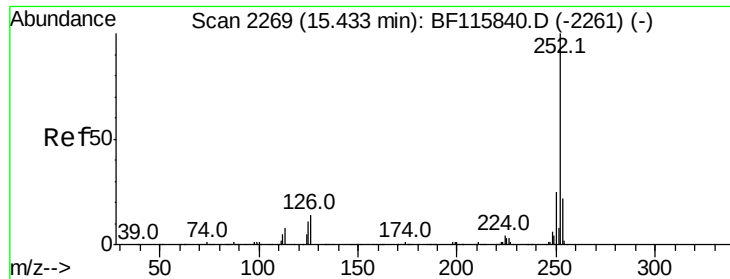
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#89
Benzo(k)fluoranthene
Concen: 6.091 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.8
125	11.0	7.7	11.5





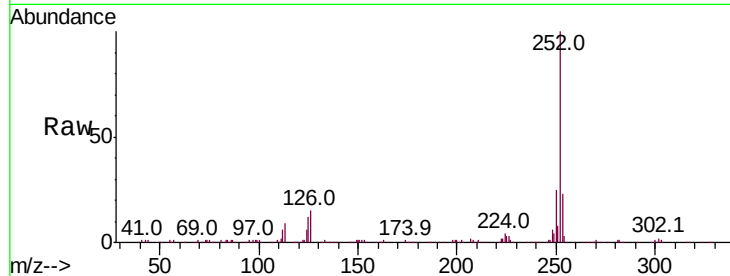
#90
Benzo(a)pyrene
Concen: 15.067 ng
RT: 15.37 min Scan# 2259
Delta R.T. -0.04 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(1)

Tot Ion	Ratio	Resp	Lower	Upper
252	100	232294		
253	23.1	18.0	27.0	
125	11.5	8.9	13.3	

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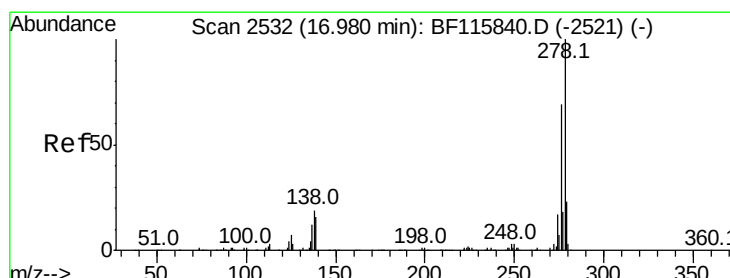
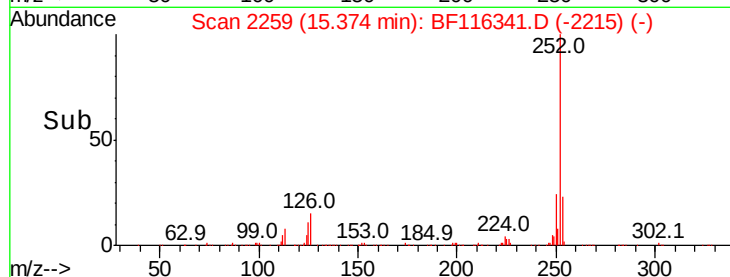
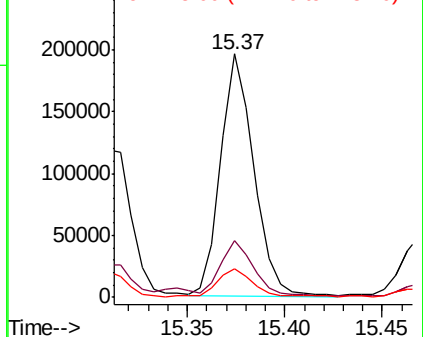


Abundance

Ion 252.00 (251.70 to 252.70): E

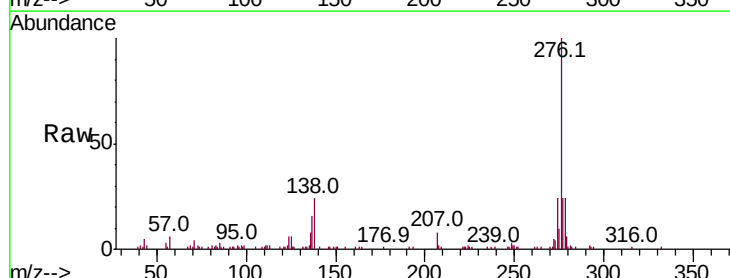
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 2.191 ng m
RT: 16.90 min Scan# 2518
Delta R.T. -0.06 min
Lab File: BF116341.D
Acq: 17 Aug 2019 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	29240		
139	0.0	12.8	19.2#	
279	25.8	18.8	28.2	

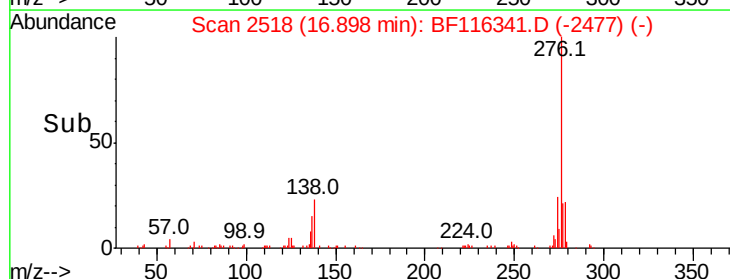
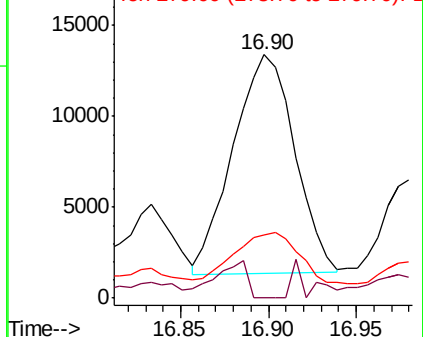


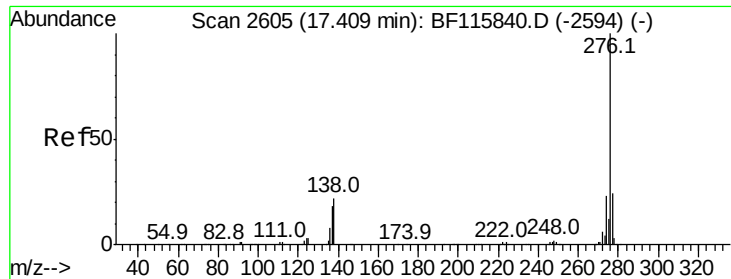
Abundance

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





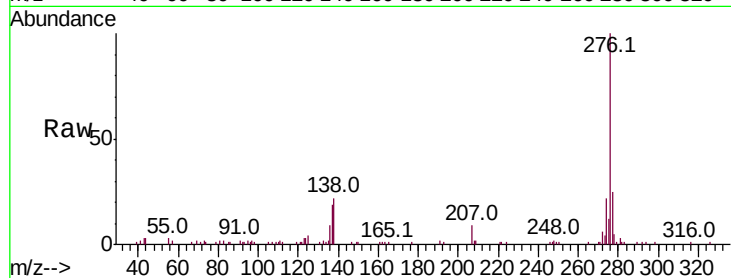
#92
 Benzo(a,h,i)perylene
 Concen: 7.704 ng
 RT: 17.34 min Scan# 2594
 Delta R.T. -0.04 min
 Lab File: BF116341.D
 Acq: 17 Aug 2019 2:06

Instrument :
 BNA_F
 ClientSampleId :
 2S-F1-F4-COMP-(1)

Tot Ion:	276	Resp:	100973
Ion Ratio	Lower	Upper	
276	100		
277	24.8	18.4	27.6
138	21.7	17.0	25.6

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

