

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091119\
 Data File : BF116969.D
 Acq On : 12 Sep 2019 1:34
 Operator : HP/JU
 Sample : K4636-16DL 40X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Manual Integrations
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mohammad
 9/16/2019 8:58:27 AM

Quant Time: Sep 12 08:11:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 10 17:49:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	63364	20.00	ng	-0.01
21) Naphthalene-d8	8.10	136	286326	20.00	ng	-0.02
39) Acenaphthene-d10	9.85	164	152800	20.00	ng	-0.02
64) Phenanthrene-d10	11.34	188	267414	20.00	ng	-0.01
76) Chrysene-d12	13.97	240	199794	20.00	ng	-0.01
87) Perylene-d12	15.42	264	200904	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	8184	2.09	ng	-0.02
7) Phenol-d6	6.45	99	12259	2.39	ng	-0.02
23) Nitrobenzene-d5	7.38	82	7215	1.44	ng	-0.02
42) 2,4,6-Tribromophenol	10.64	330	2598	2.54	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	15705	1.73	ng	-0.02
79) Terphenyl-d14	12.91	244	17787	1.65	ng	-0.02
Target Compounds						
31) Naphthalene	8.12	128	49817	3.659	ng	Qvalue 98
37) 2-Methylnaphthalene	8.82	142	22486	2.482	ng	99
38) 1-Methylnaphthalene	8.92	142	18961	2.217	ng	99
52) Acenaphthene	9.89	154	65609	7.692	ng	97
55) Dibenzofuran	10.06	168	84574	7.034	ng	97
58) Fluorene	10.40	166	108492	11.842	ng	97
71) Phenanthrene	11.37	178	1043354	70.090	ng	100
72) Anthracene	11.42	178	314479	20.987	ng	99
73) Carbazole	11.56	167	73473	5.147	ng	98
75) Fluoranthene	12.55	202	1013499	69.279	ng	98
78) Pyrene	12.78	202	834554	46.990	ng	99
81) Benzo(a)anthracene	13.96	228	317773	25.131	ng	99
83) Chrysene	14.00	228	266723	20.474	ng	98
86) Indeno(1,2,3-cd)pyrene	16.84	276	129633	12.389	ng	96
88) Benzo(b)fluoranthene	15.00	252	287027m	23.631	ng	
89) Benzo(k)fluoranthene	15.02	252	74487m	6.726	ng	
90) Benzo(a)pyrene	15.36	252	205663	19.462	ng	98
91) Dibenzo(a,h)anthracene	16.85	278	27752	3.000	ng	# 85
92) Benzo(a,h,i)perylene	17.27	276	113625	12.045	ng	98

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

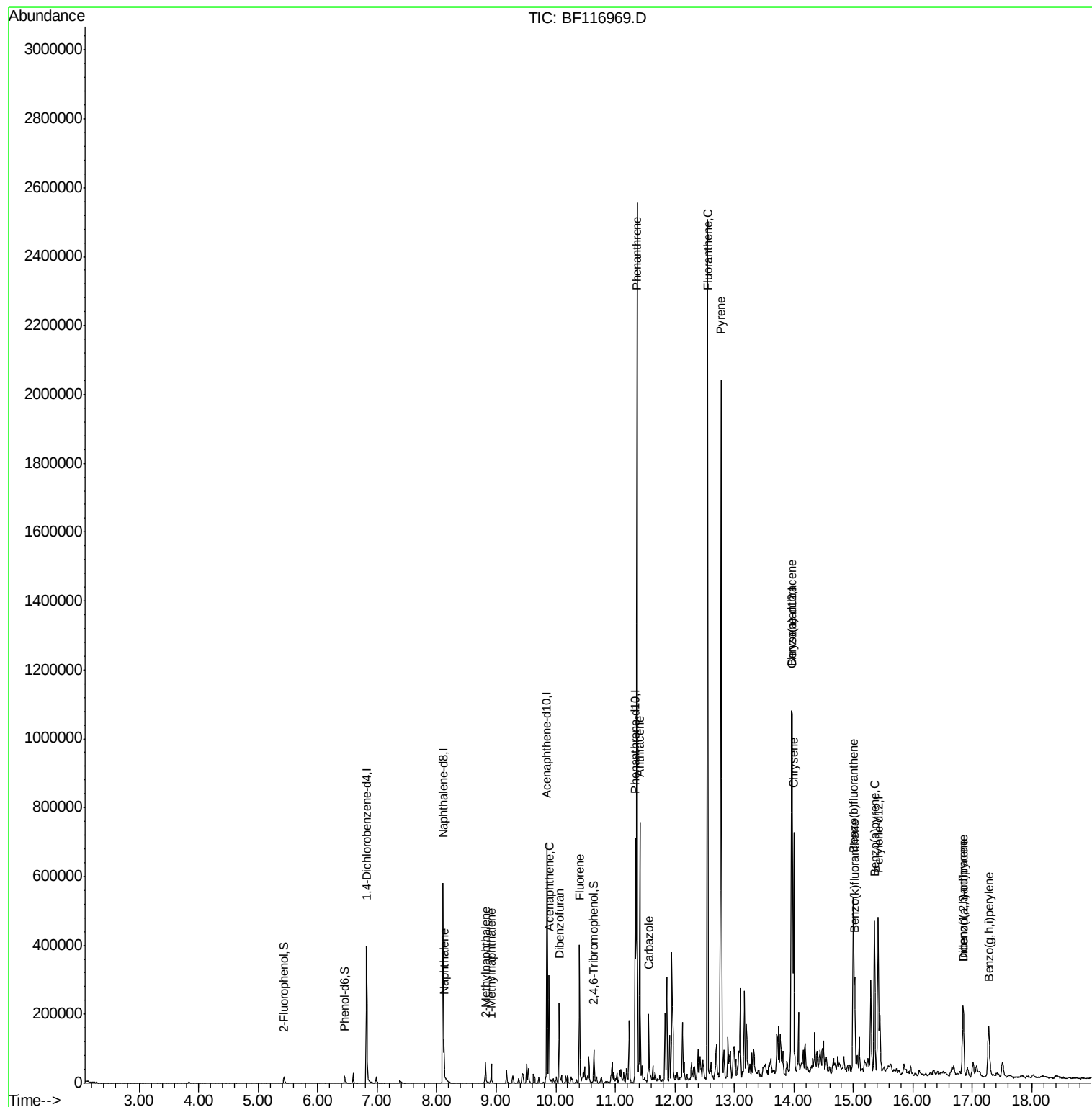
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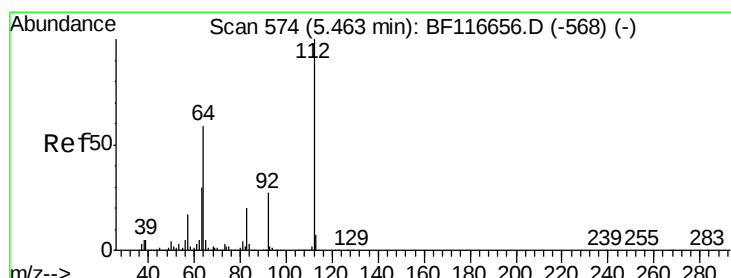
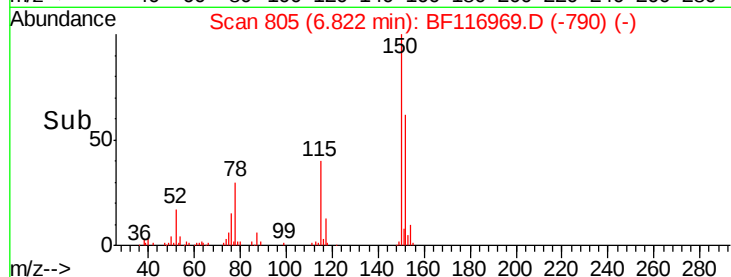
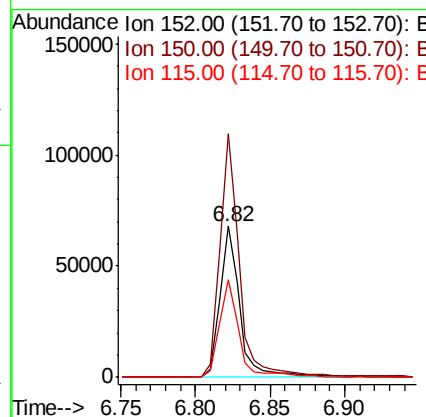
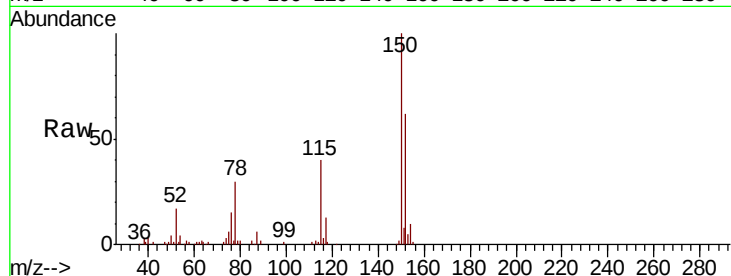
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.82 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: BF116969.D
 Acq: 12 Sep 2019 1:34

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.4	124.4	186.6
115	65.1	49.9	74.9

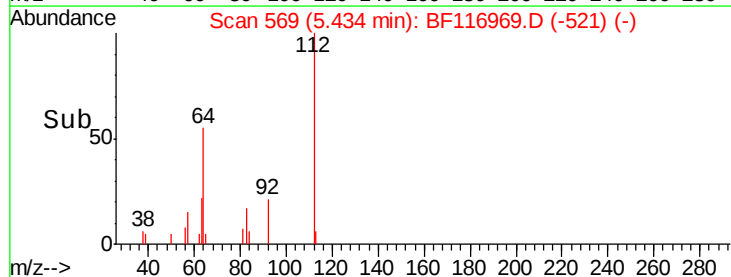
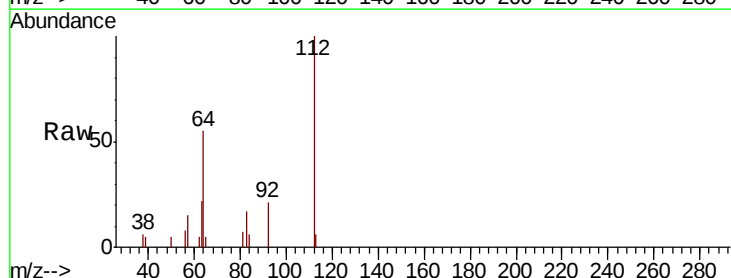
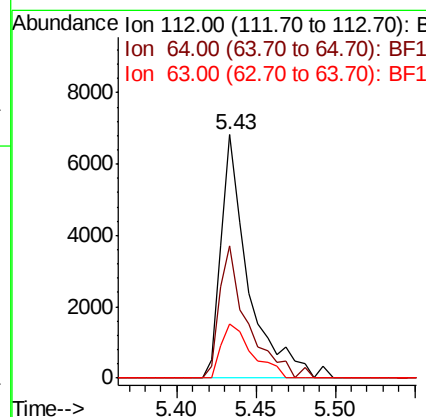
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#5
 2-Fluorophenol
 Concen: 2.092 ng
 RT: 5.43 min Scan# 569
 Delta R.T. -0.02 min
 Lab File: BF116969.D
 Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	47.1	70.7
63	22.2	24.9	37.3





#7

Phenol-d6

Concen: 2.387 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.02 min

Lab File: BF116969.D

Acq: 12 Sep 2019 1:34

Instrument :

BNA_F

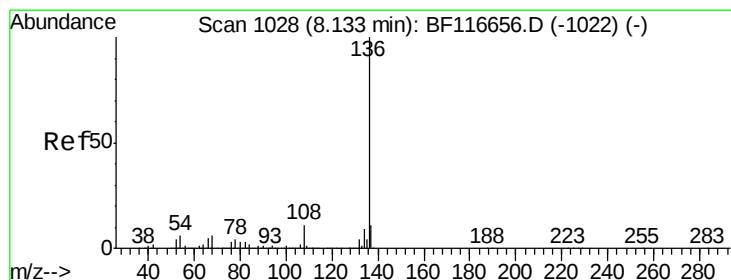
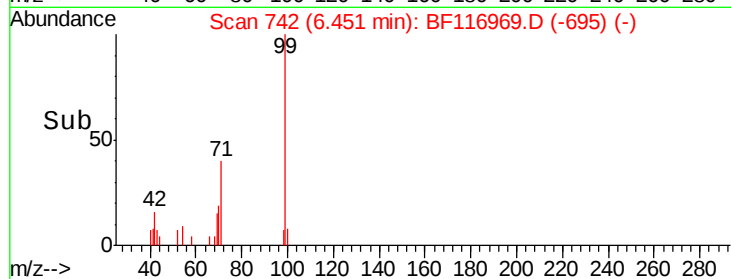
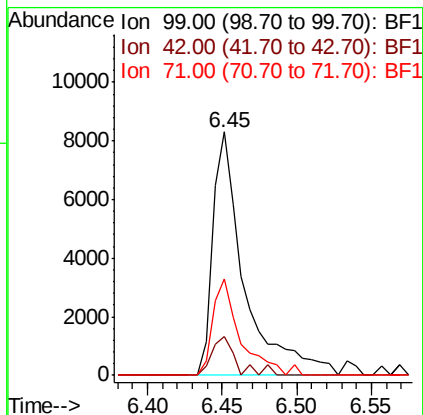
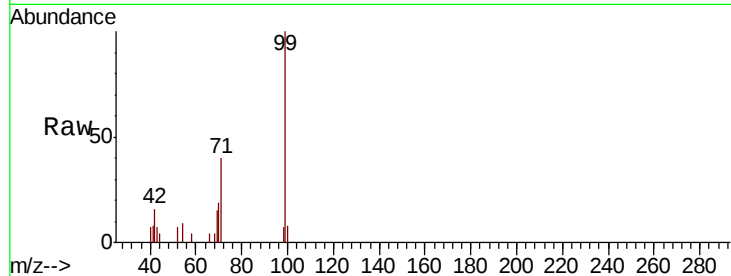
ClientSampleId :

SB-32-COMPDL

Tot Ion:	99	Resp:	12259
Ion Ratio	Lower	Upper	
99	100		
42	16.1	13.7	20.5
71	39.5	30.8	46.2

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#21

Naphthalene-d8

Concen: 20.000 ng

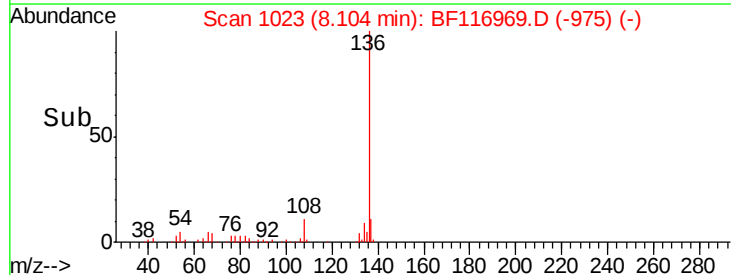
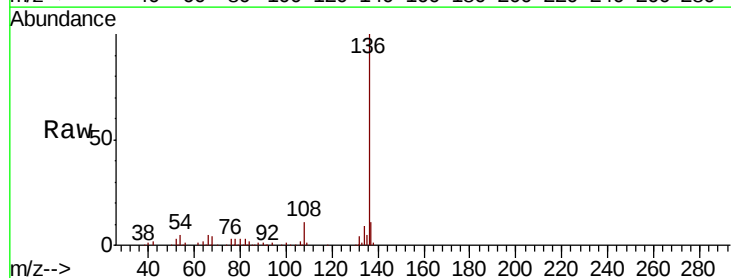
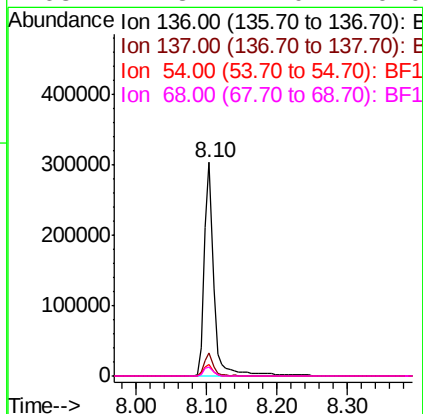
RT: 8.10 min Scan# 1023

Delta R.T. -0.02 min

Lab File: BF116969.D

Acq: 12 Sep 2019 1:34

Tgt Ion:	136	Resp:	286326
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	5.4	4.8	7.2
68	4.3	4.0	6.0





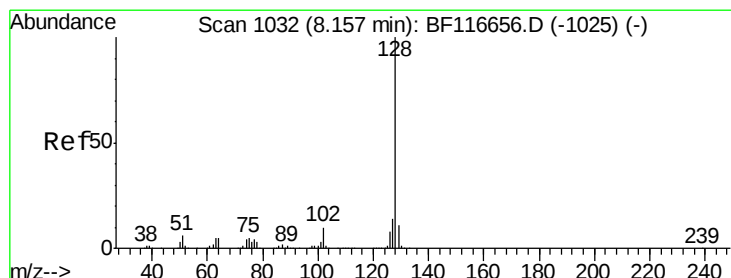
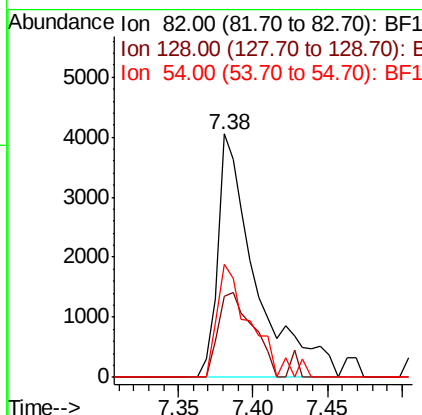
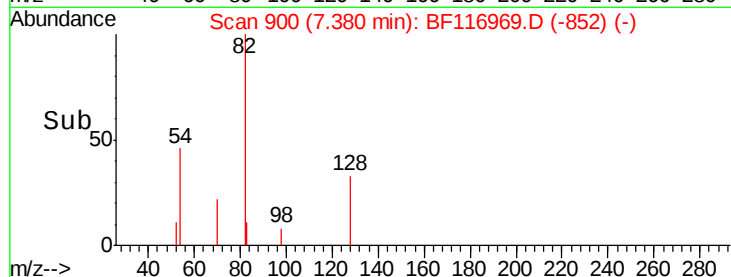
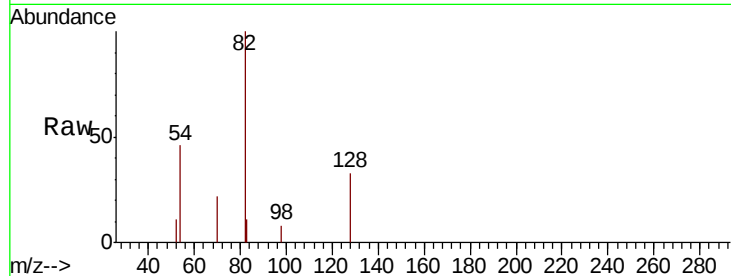
#23
Nitrobenzene-d5
Concen: 1.439 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampled :
SB-32-COMPDL

Tot Ion:	82	Resp:	7215
Ion	Ratio	Lower	Upper
82	100		
128	33.3	32.8	49.2
54	46.5	36.9	55.3

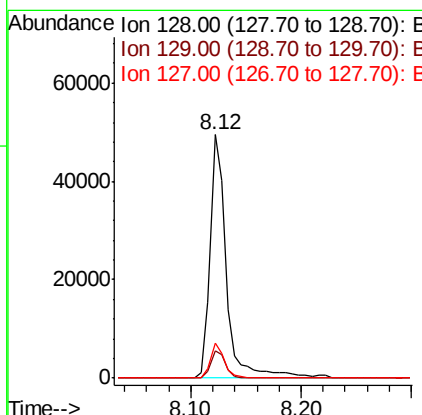
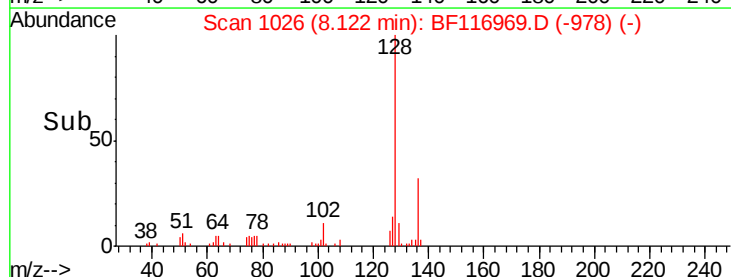
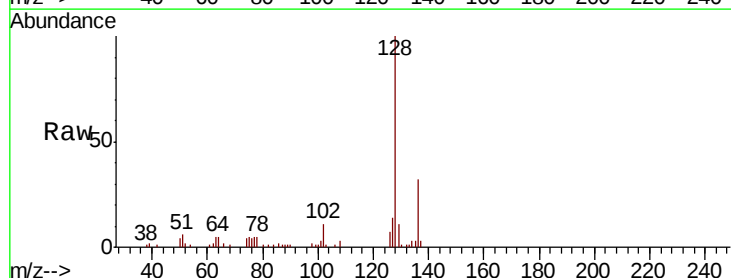
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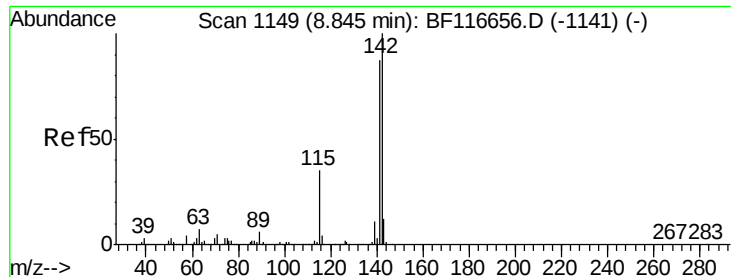
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#31
Naphthalene
Concen: 3.659 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion:	128	Resp:	49817
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	14.4	10.4	15.6





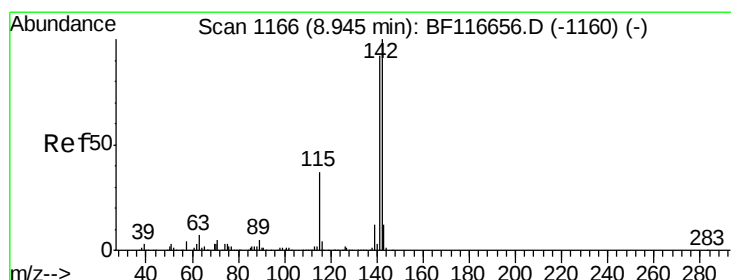
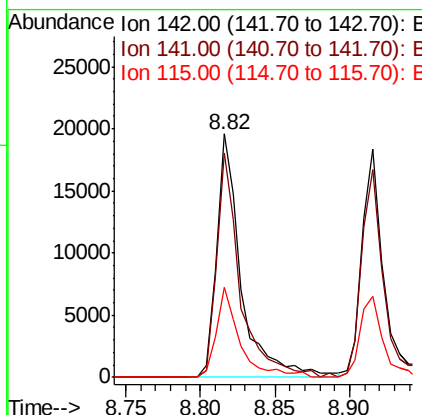
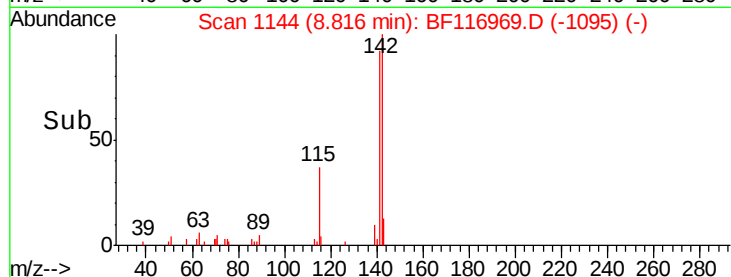
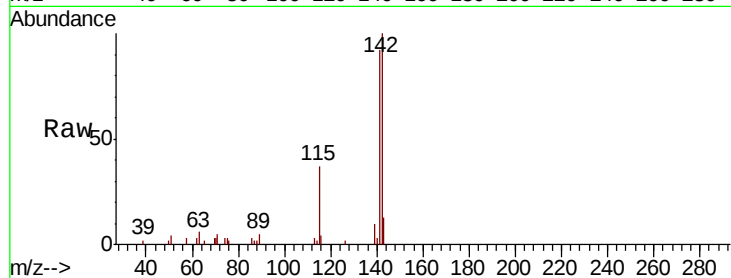
#37
2-Methylnaphthalene
Concen: 2.482 ng
RT: 8.82 min Scan# 1144
Delta R.T. -0.01 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.3	72.6	109.0
115	36.7	29.8	44.6

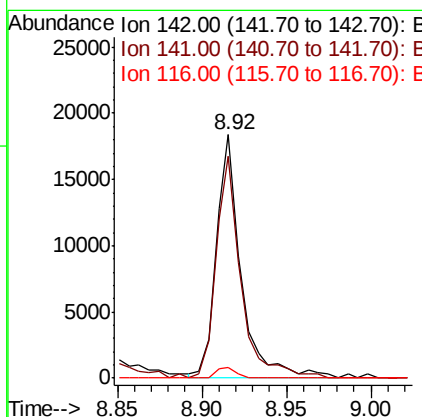
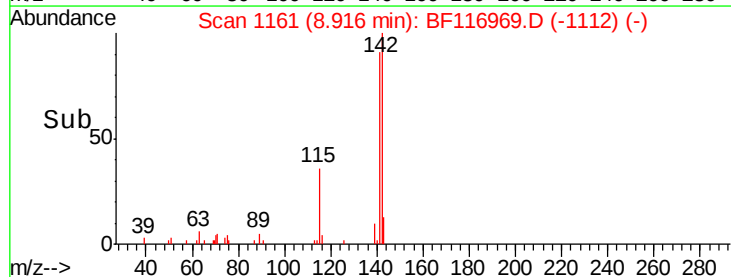
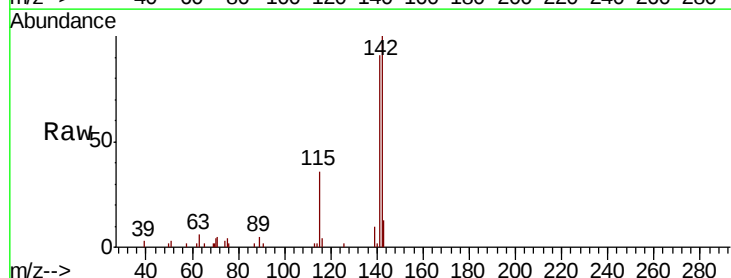
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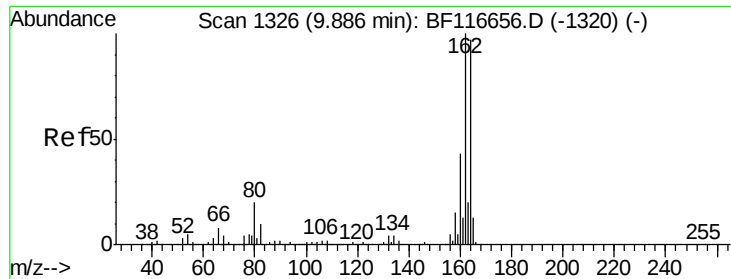
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#38
1-Methylnaphthalene
Concen: 2.217 ng
RT: 8.92 min Scan# 1161
Delta R.T. -0.01 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.9	110.9
116	4.2	3.0	4.6





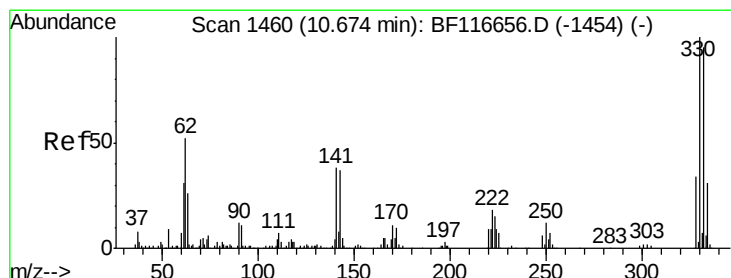
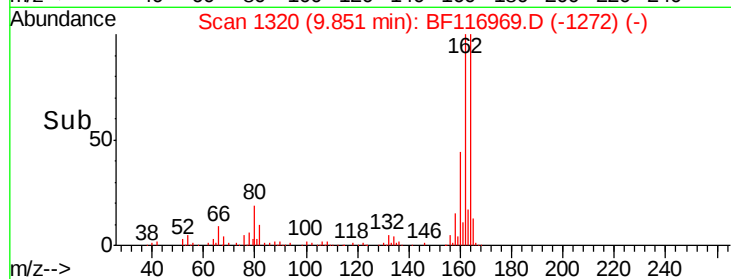
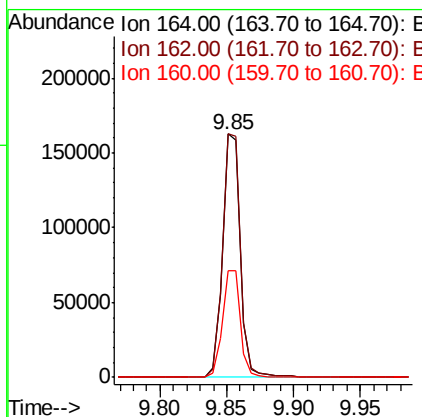
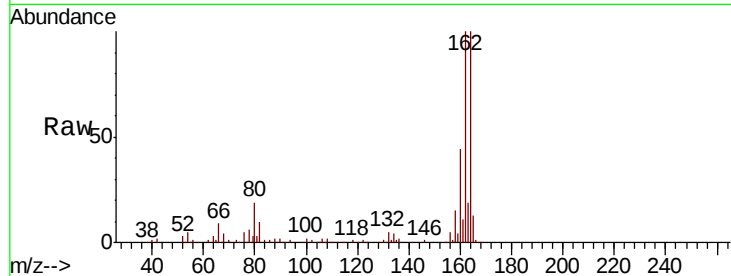
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.0	81.4	122.0	
160	43.7	35.4	53.2	

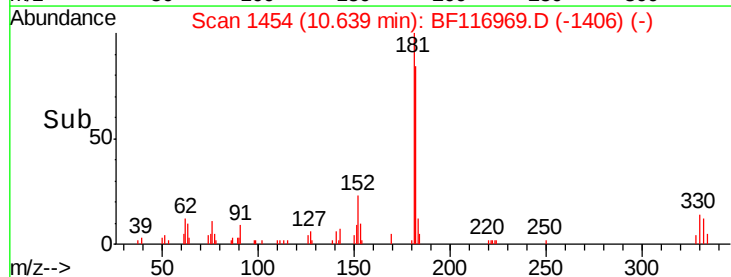
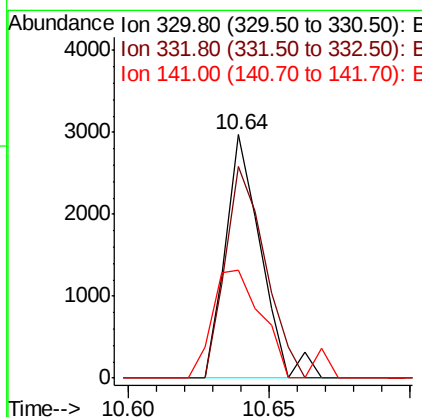
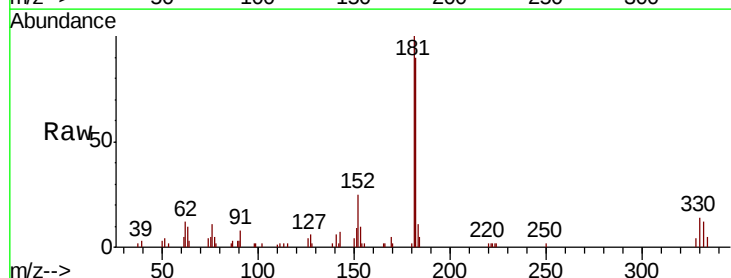
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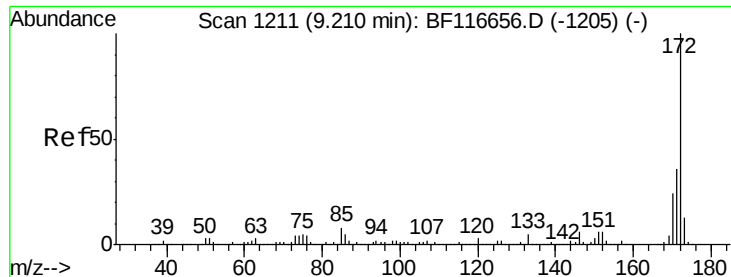
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#42
2,4,6-Tribromophenol
Concen: 2.543 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.7	76.9	115.3	
141	61.0	31.4	47.2	





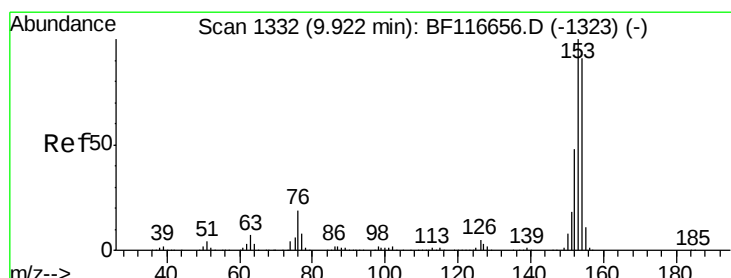
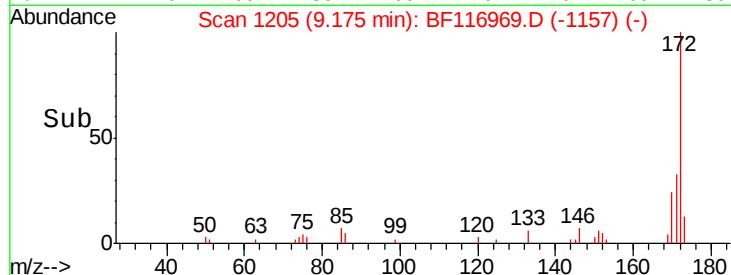
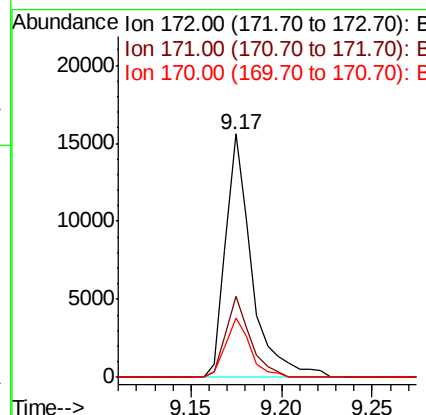
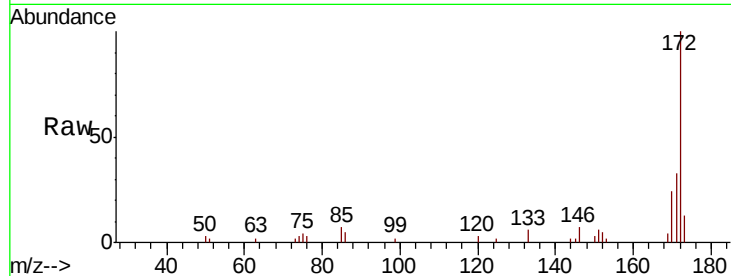
#45
2-Fluorobiphenyl
Concen: 1.734 ng
RT: 9.17 min Scan# 1205
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	33.3	27.8	41.6	
170	24.4	18.9	28.3	

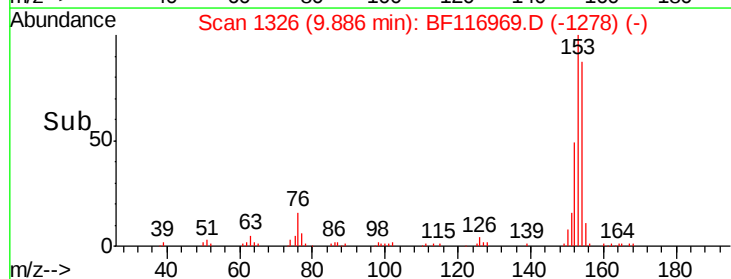
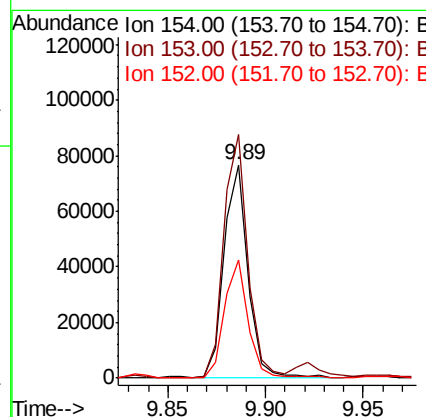
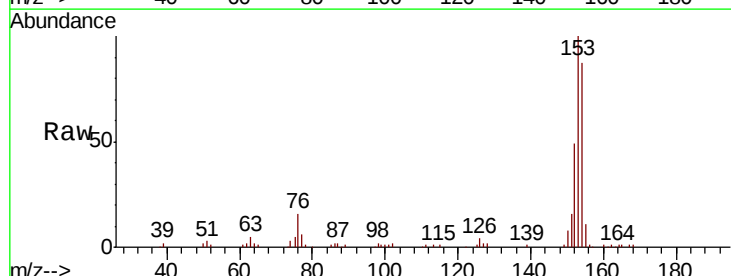
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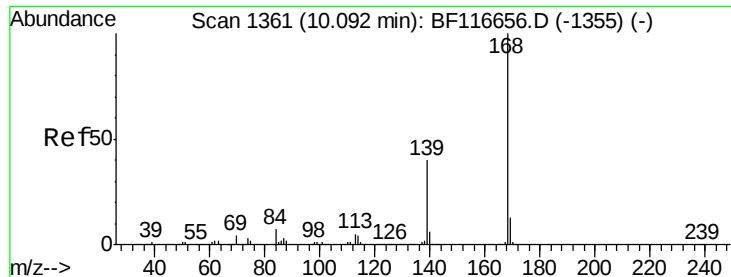
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#52
Acenaphthene
Concen: 7.692 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	114.3	89.5	134.3	
152	55.5	41.9	62.9	





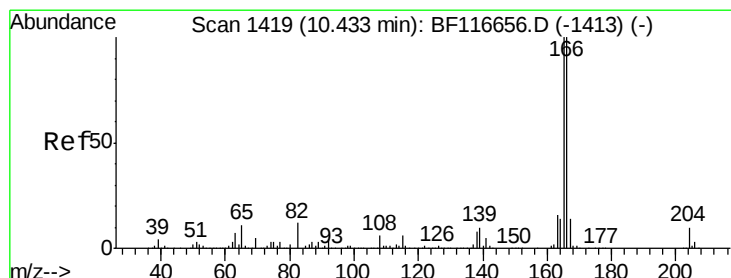
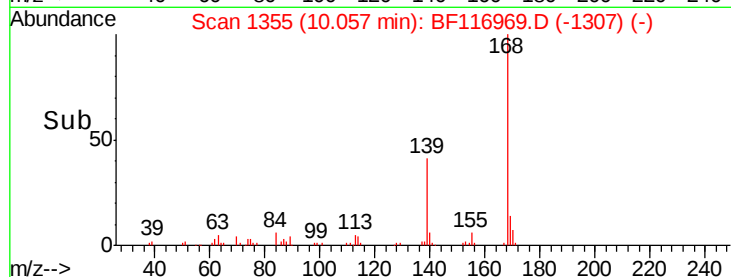
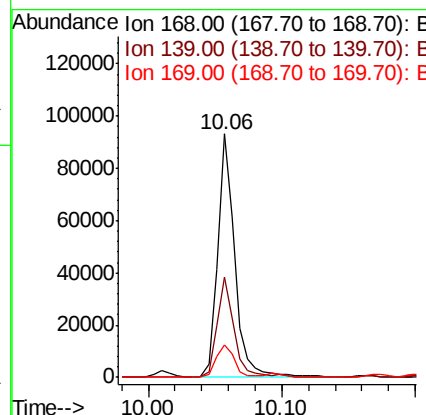
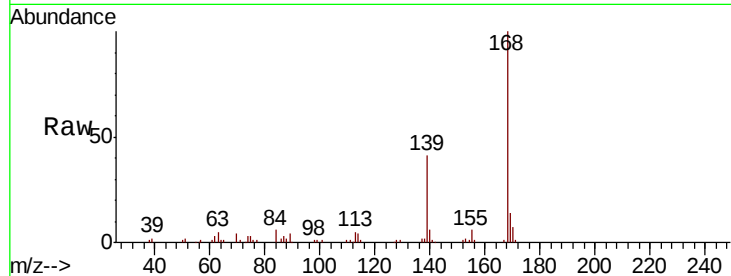
#55
Dibenzofuran
Concen: 7.034 ng
RT: 10.06 min Scan# 1355
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.4	31.5	47.3
169	13.6	10.3	15.5

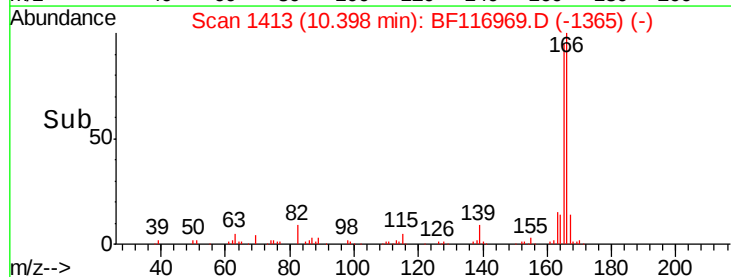
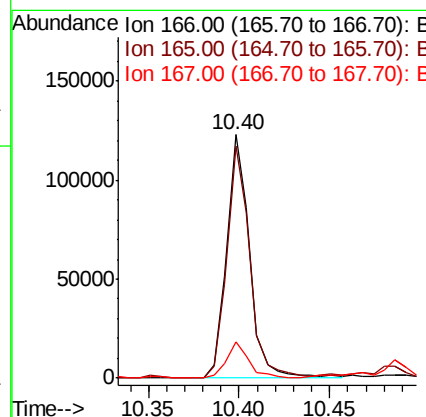
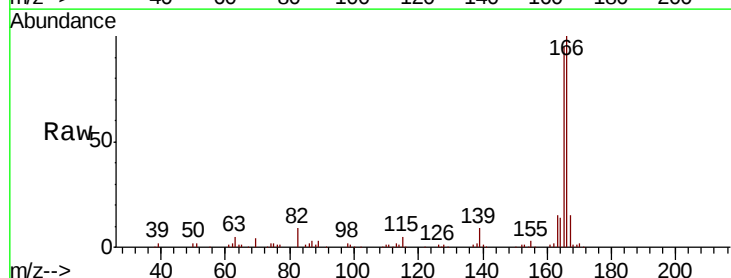
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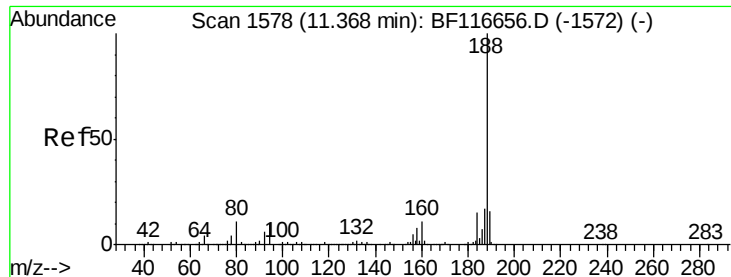
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#58
Fluorene
Concen: 11.842 ng
RT: 10.40 min Scan# 1413
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.5	78.8	118.2
167	14.7	10.0	15.0





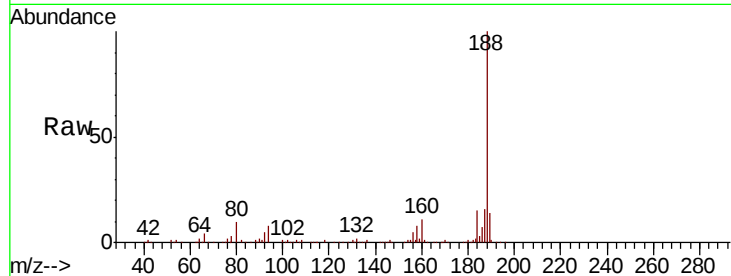
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.01 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

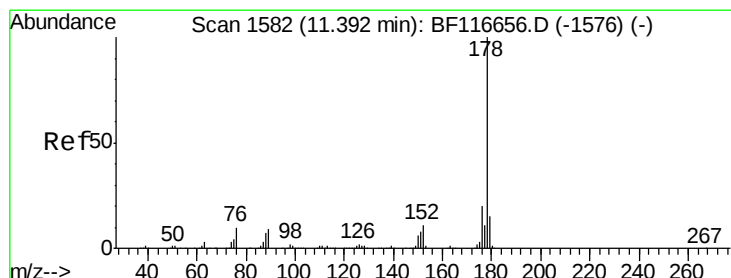
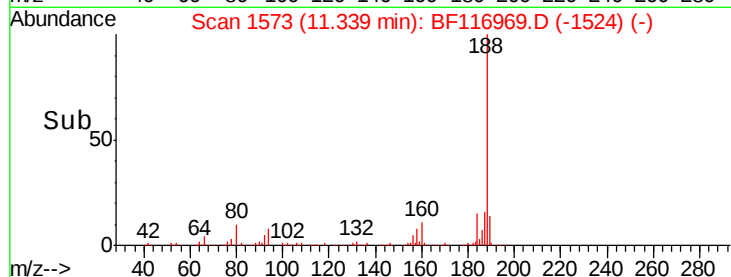
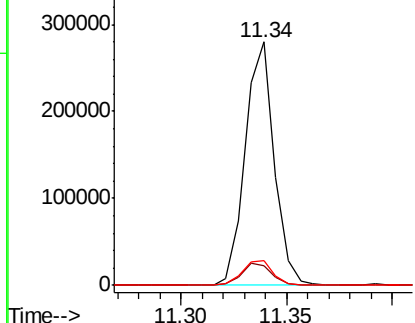
Tot Ion	Ratio	Resp	Lower	Upper
188	100	267414		
94	8.2		7.3	10.9
80	10.0		8.4	12.6

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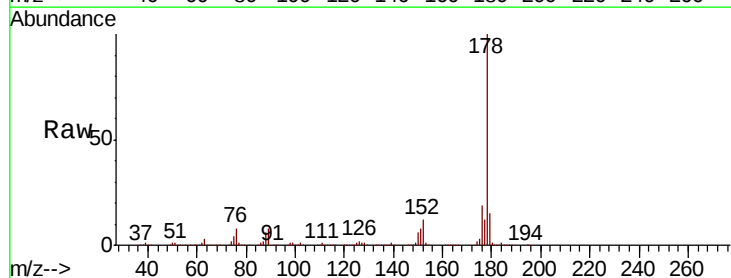


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

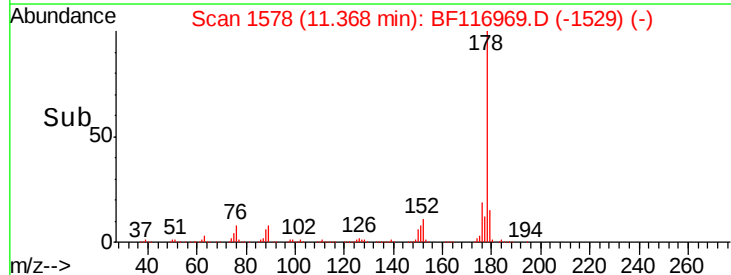
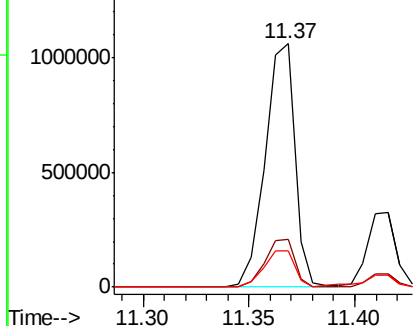


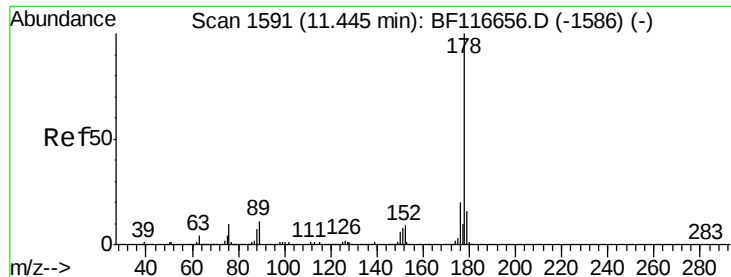
#71
Phenanthrene
Concen: 70.090 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1043354		
176	19.4		15.4	23.0
179	15.1		12.2	18.2



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





#72

Anthracene

Concen: 20.987 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.01 min

Lab File: BF116969.D

Acq: 12 Sep 2019 1:34

Instrument :

BNA_F

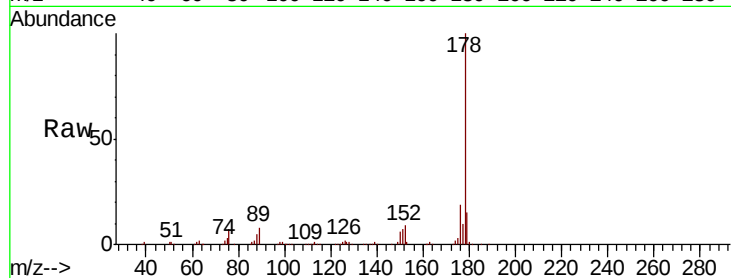
ClientSampleId :

SB-32-COMPDL

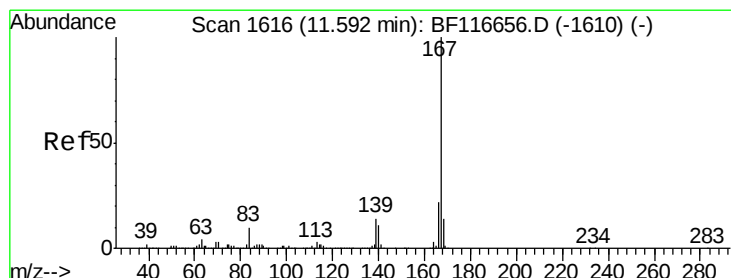
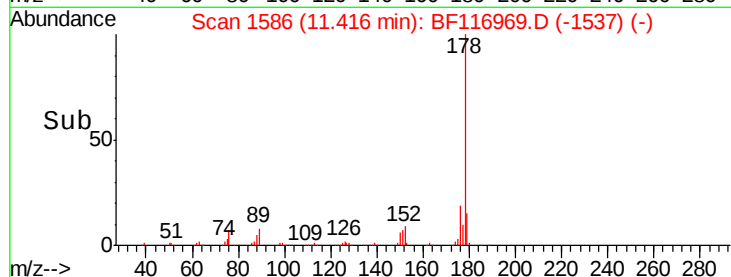
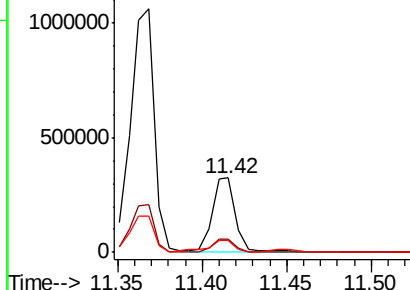
Tot Ion:	178	Resp:	314479
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.4	23.0
179	15.4	12.5	18.7

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 5.147 ng

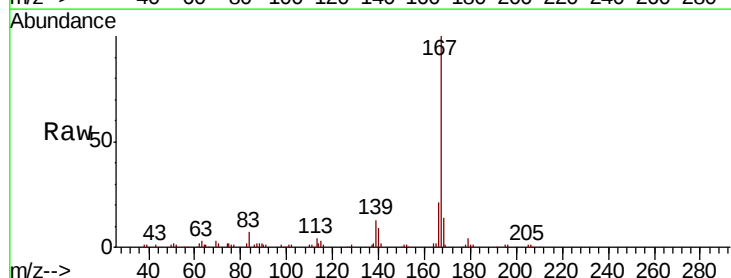
RT: 11.56 min Scan# 1611

Delta R.T. -0.02 min

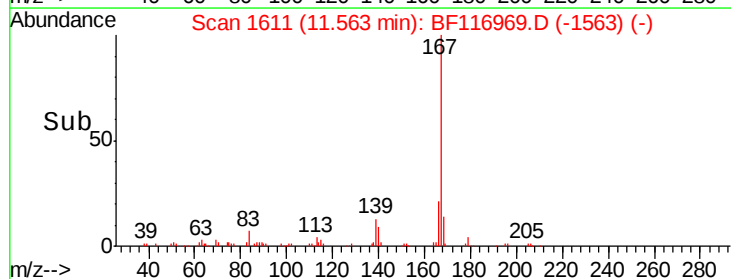
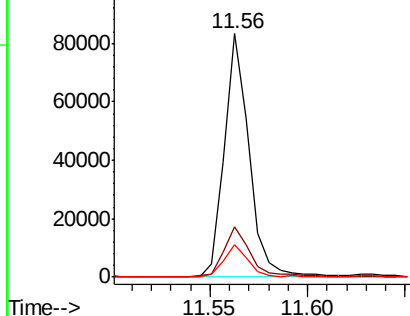
Lab File: BF116969.D

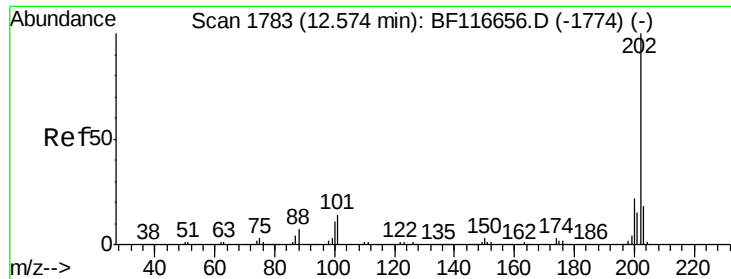
Acq: 12 Sep 2019 1:34

Tgt Ion:	167	Resp:	73473
Ion Ratio	Lower	Upper	
167	100		
166	20.9	17.8	26.6
139	13.4	11.1	16.7



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: 69.279 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF116969.D

Acq: 12 Sep 2019 1:34

Instrument :

BNA_F

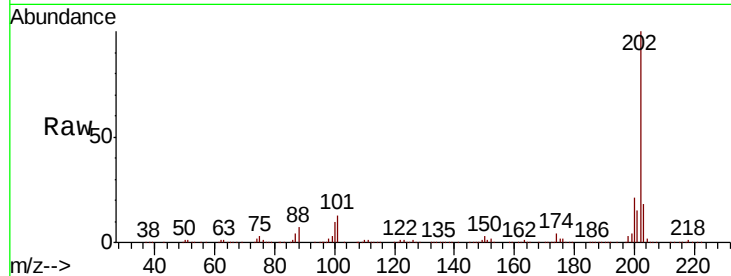
ClientSampleID :

SB-32-COMPDL

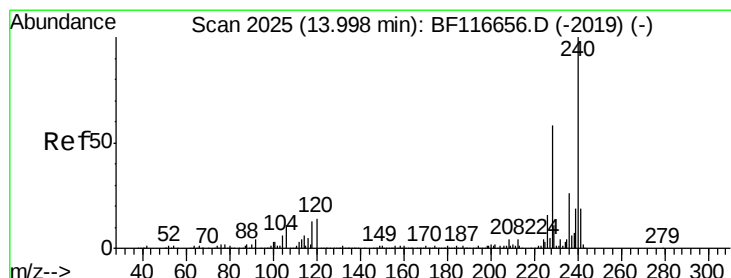
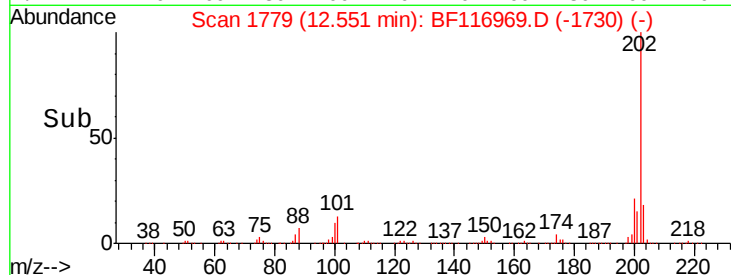
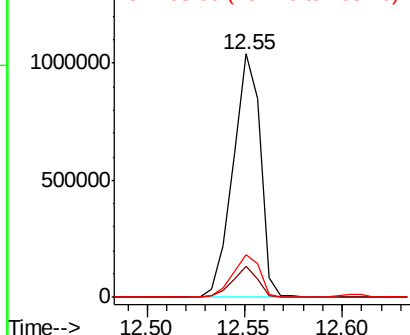
Tot Ion:	202	Resp:	1013499
Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	31.3
203	17.6	0.0	37.6

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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: 13.97 min Scan# 2021

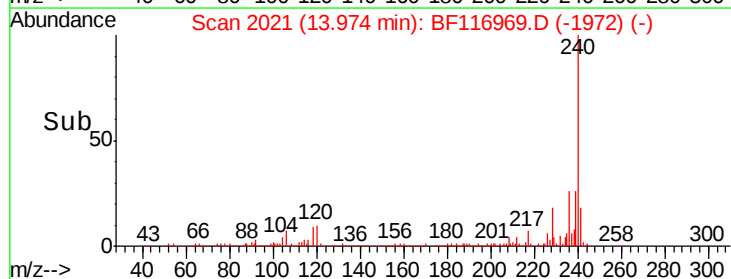
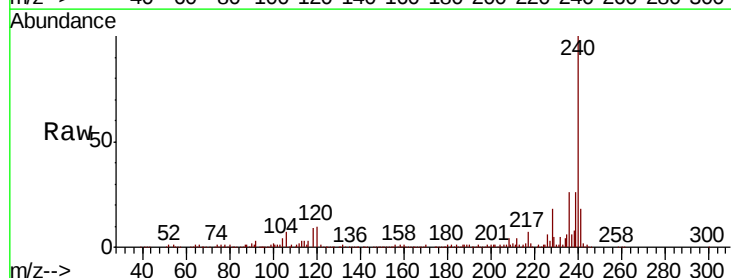
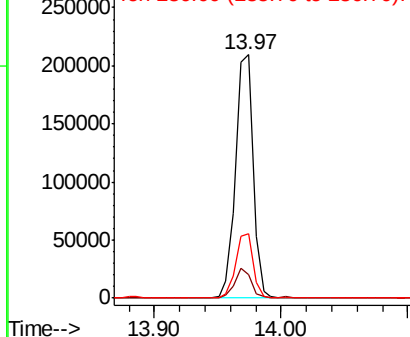
Delta R.T. -0.01 min

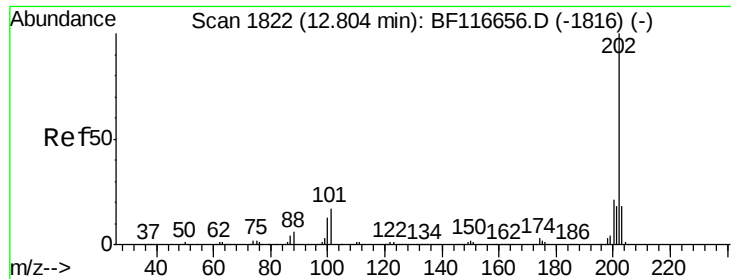
Lab File: BF116969.D

Acq: 12 Sep 2019 1:34

Tgt Ion:	240	Resp:	199794
Ion	Ratio	Lower	Upper
240	100		
120	9.6	9.1	13.7
236	26.3	21.1	31.7

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





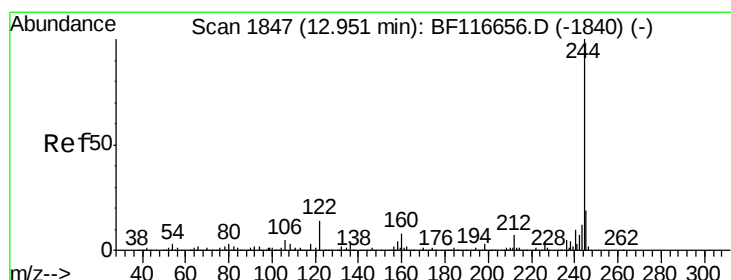
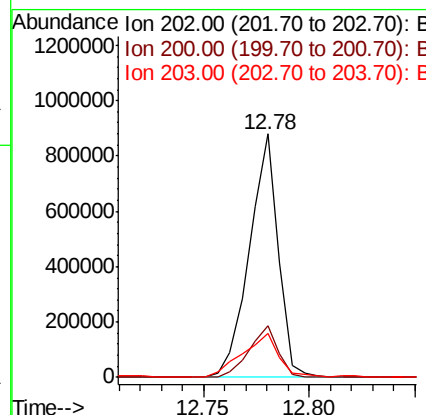
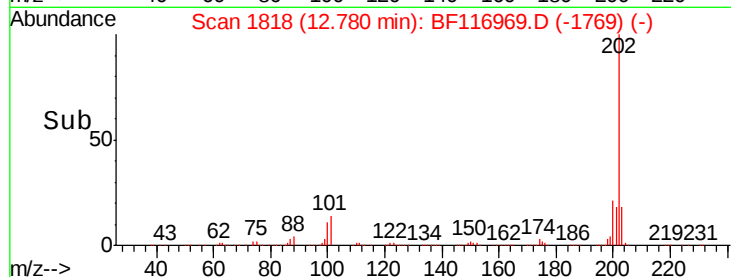
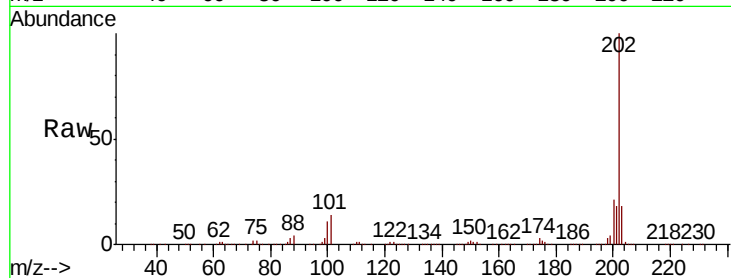
#78
Pvrene
Concen: 46.990 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.01 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.5	24.7
203	17.8	13.7	20.5

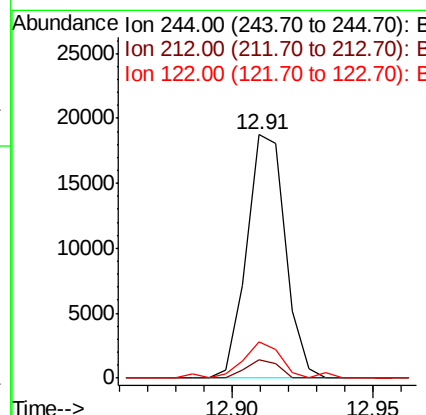
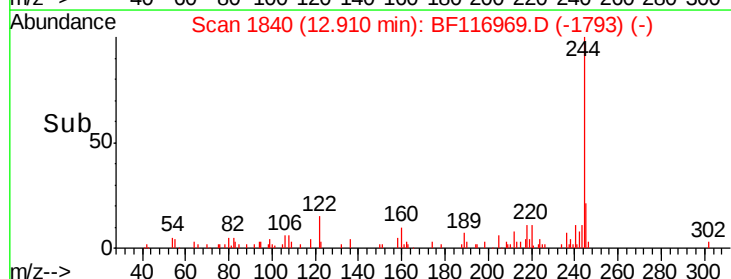
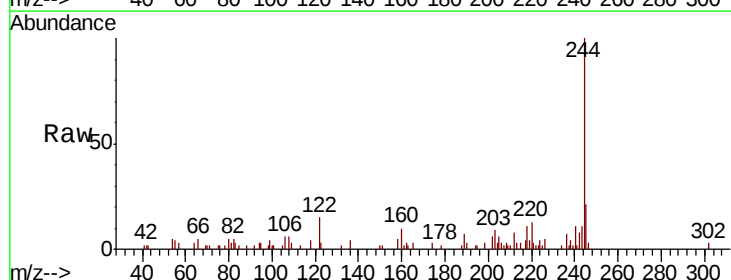
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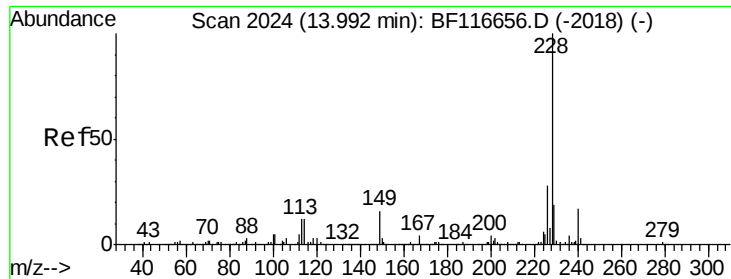
mohammad
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#79
Terphenyl-d14
Concen: 1.647 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.1	9.1
122	14.6	10.2	15.4





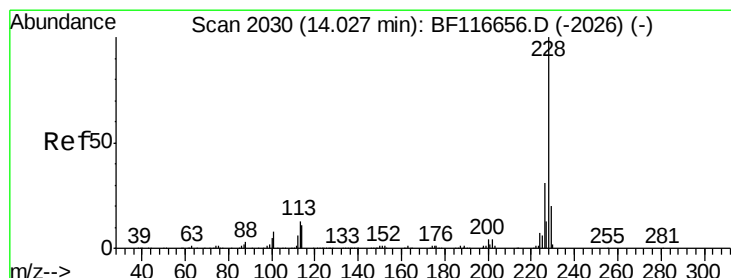
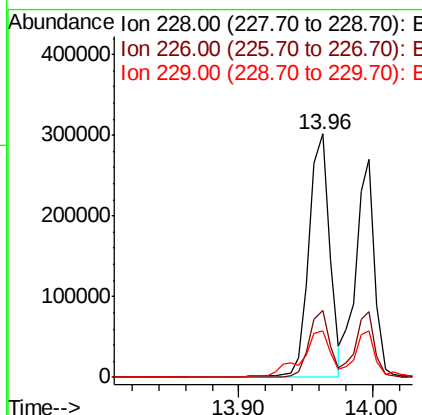
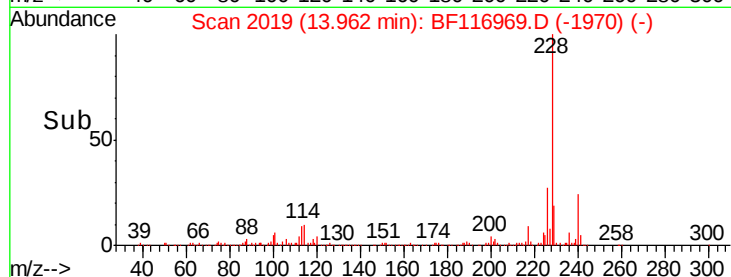
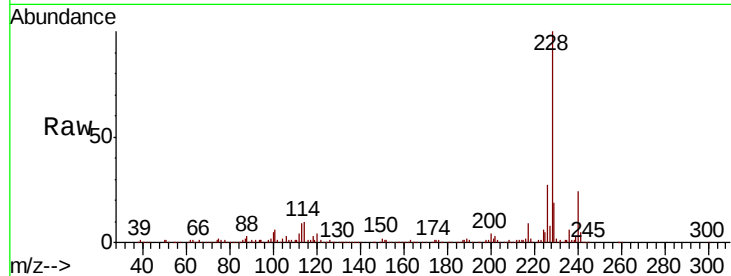
#81
Benzo(a)anthracene
Concen: 25.131 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.0	33.0
229	19.3	16.4	24.6

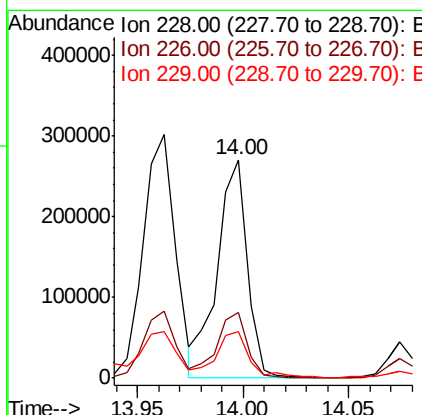
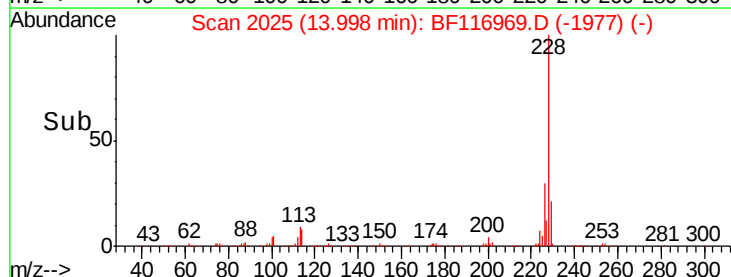
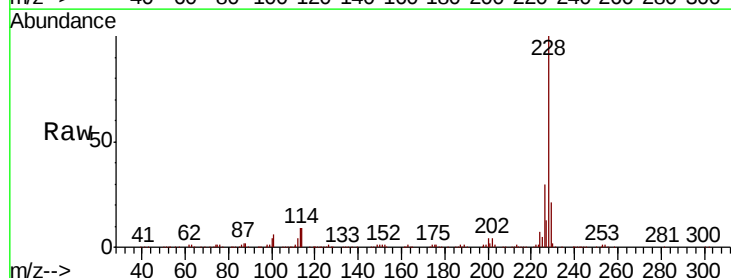
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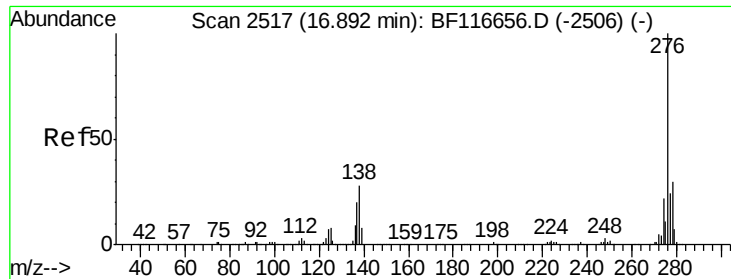
mohammad
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#83
Chrysene
Concen: 20.474 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.0	36.0
229	21.5	15.4	23.0





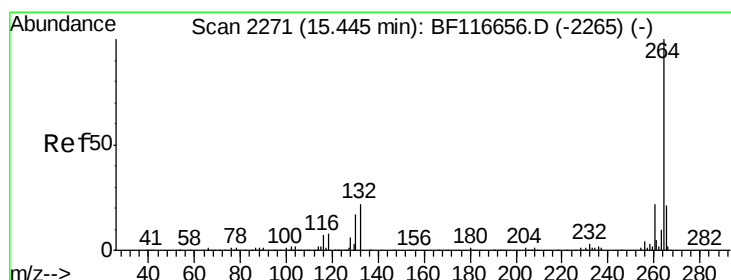
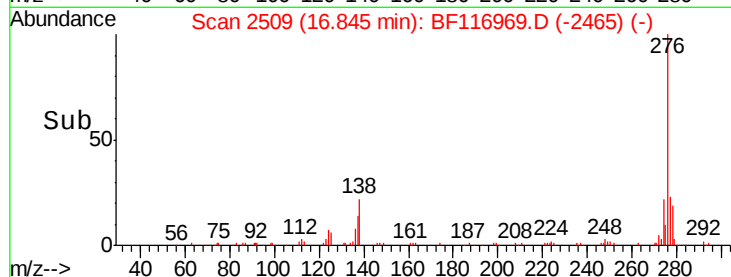
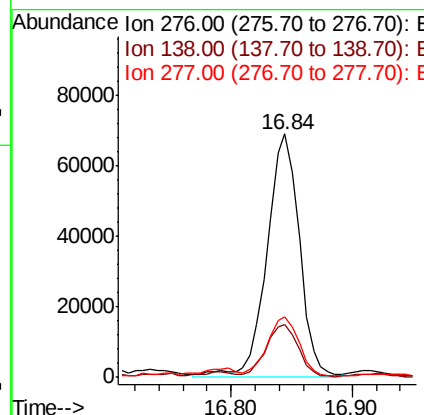
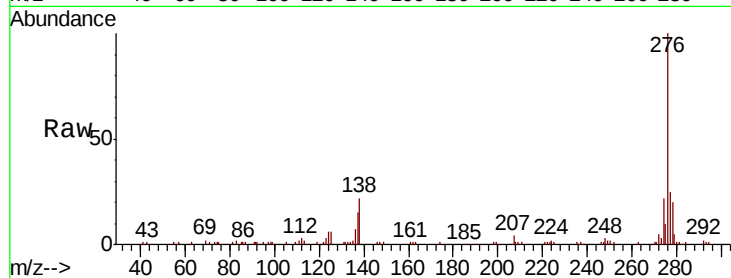
#86
Indeno(1,2,3-cd)pyrene
Concen: 12.389 ng
RT: 16.84 min Scan# 2509
Delta R.T. -0.04 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.6	19.4	29.2
277	24.5	20.5	30.7

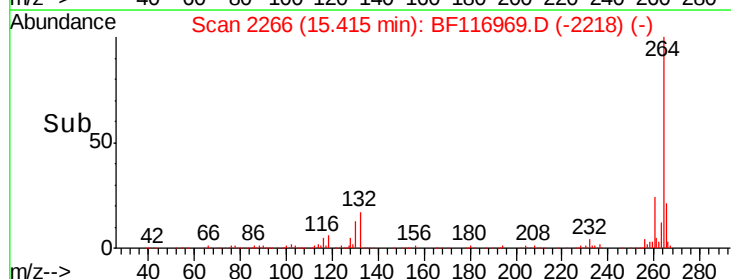
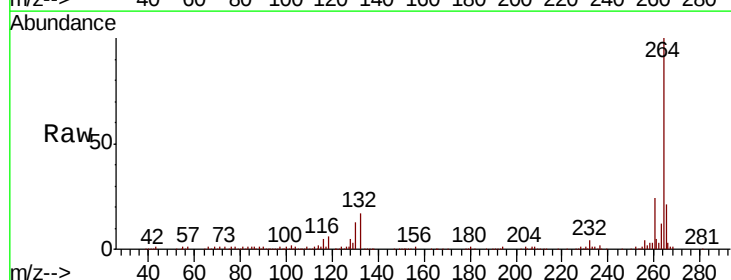
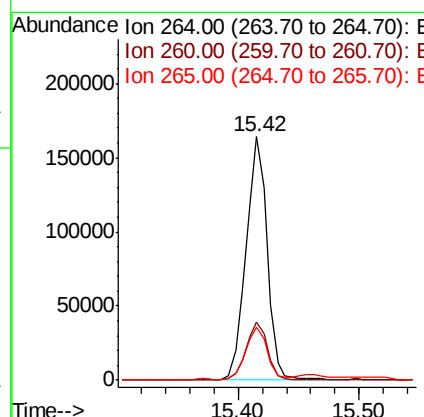
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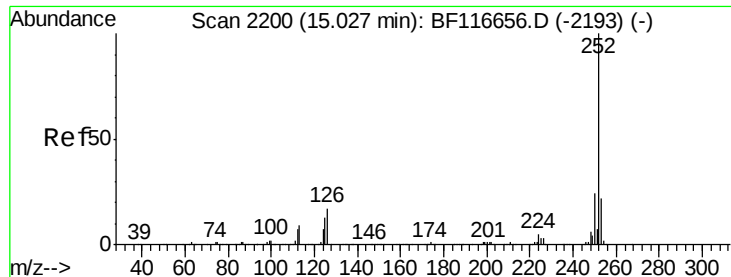
mohammad
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.3	27.5
265	21.5	16.5	24.7





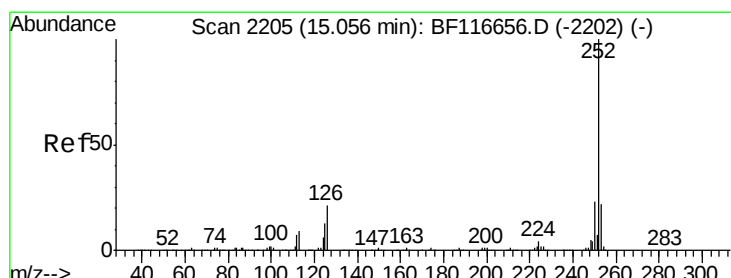
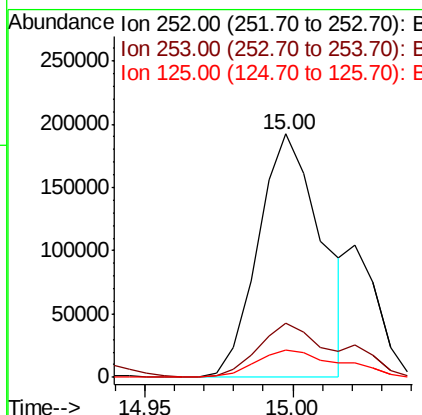
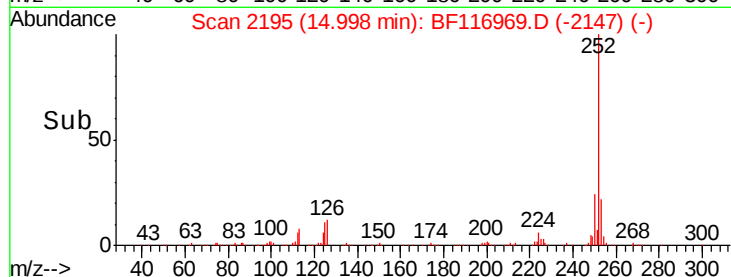
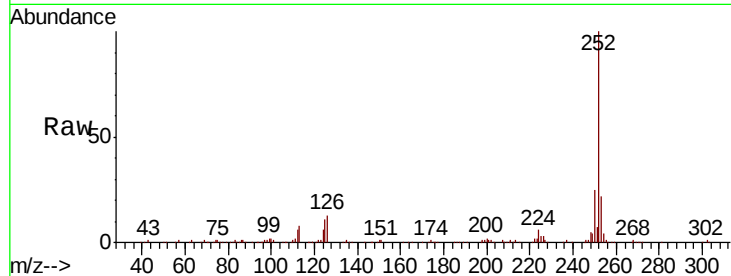
#88
Benzo(b)fluoranthene
Concen: 23.631 ng m
RT: 15.00 min Scan# 2195
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	11.1	8.2	12.2

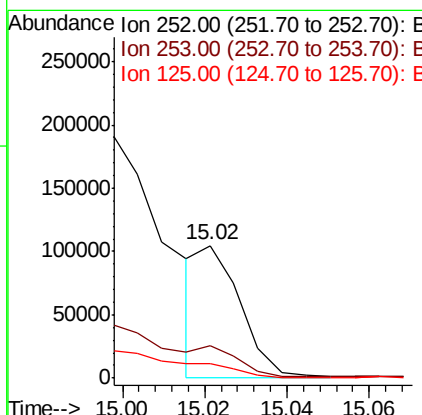
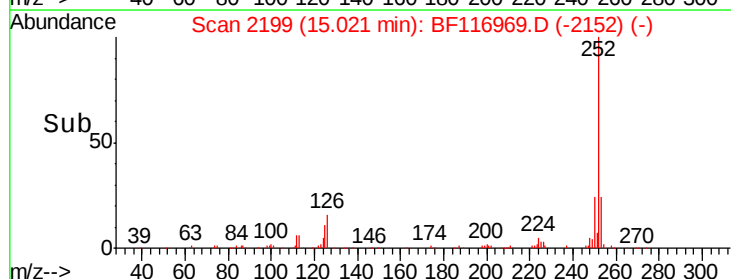
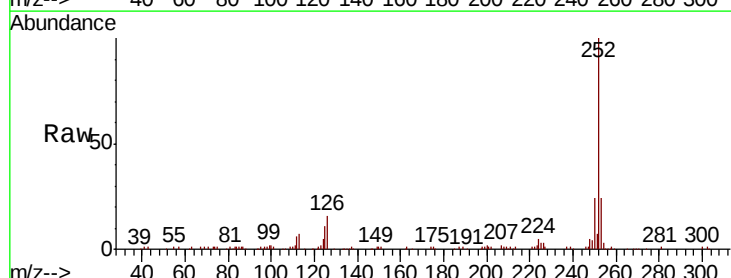
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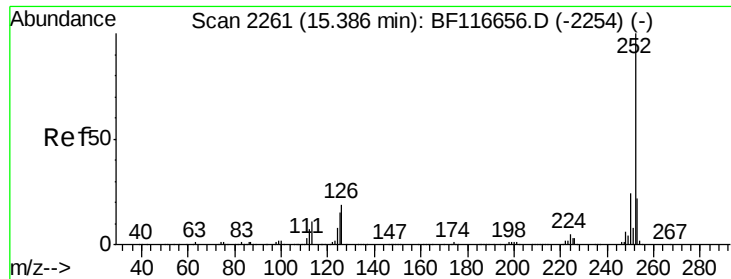
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#89
Benzo(k)fluoranthene
Concen: 6.726 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.7	26.5
125	11.2	8.6	13.0





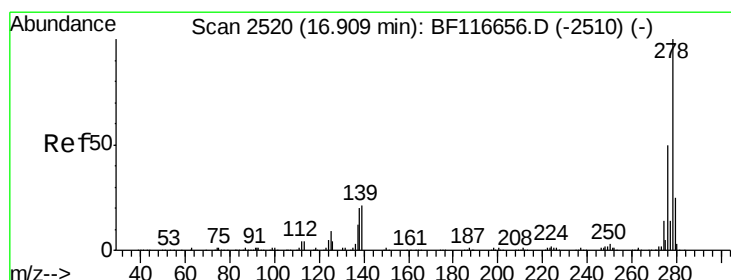
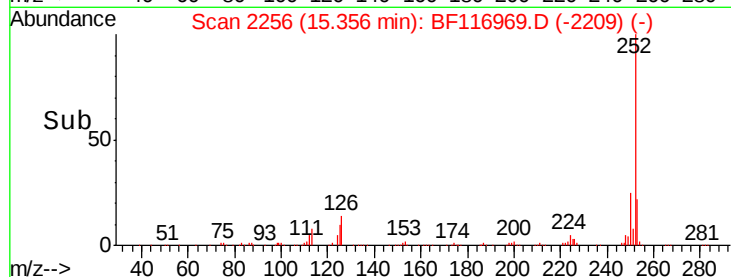
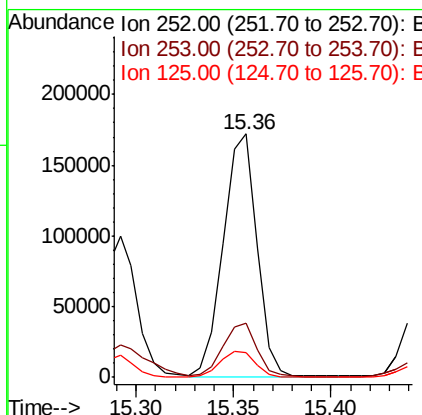
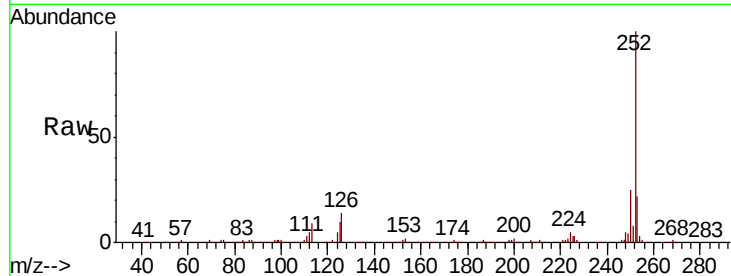
#90
Benzo(a)pyrene
Concen: 19.462 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.02 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	10.4	9.8	14.8

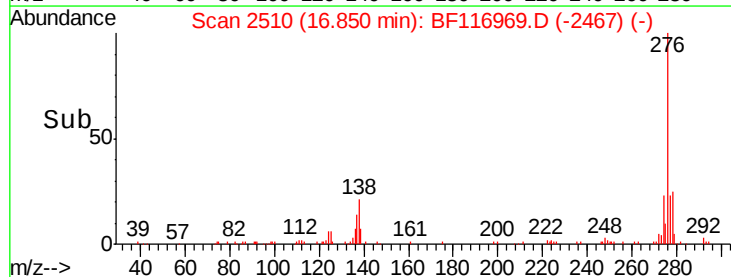
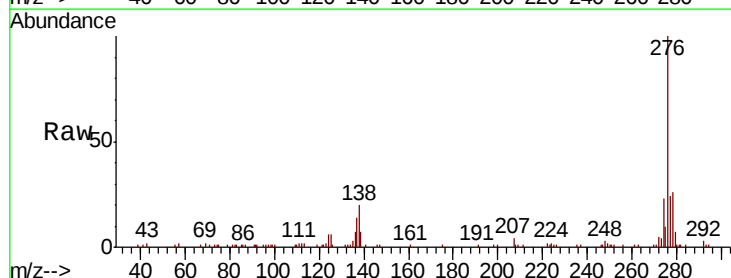
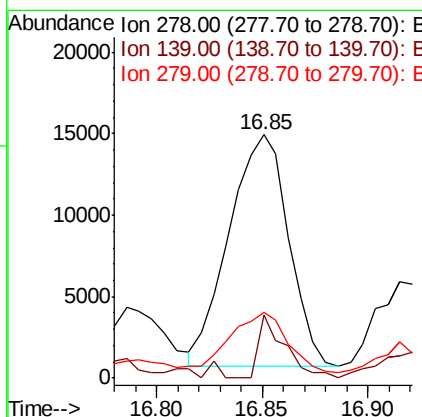
Manual Integrations
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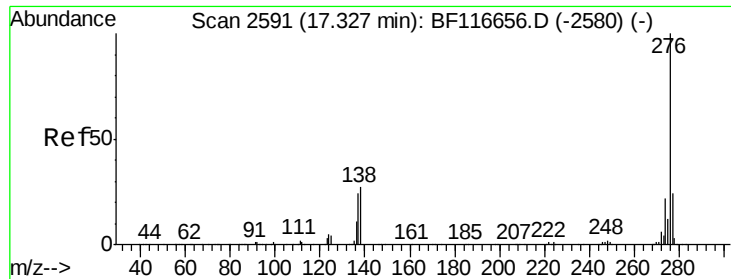
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 3.000 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.05 min
Lab File: BF116969.D
Acq: 12 Sep 2019 1:34

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.1	12.4	18.6#
279	26.8	18.2	27.4





#92
 Benzo(a,h,i)perylene
 Concen: 12.045 ng
 RT: 17.27 min Scan# 2582
 Delta R.T. -0.05 min
 Lab File: BF116969.D
 Acq: 12 Sep 2019 1:34

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
277	23.1	18.5	27.7		
138	22.3	16.2	24.2		

Manual Integrations
 APPROVED

mohammad
 9/16/2019 8:58:27 AM

