

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090319\
 Data File : BF116792.D
 Acq On : 4 Sep 2019 1:00
 Operator : HP/JU
 Sample : K4618-03DL 5X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 SB-4-14-16DL

Manual Integrations
 APPROVED

mohammad
 9/6/2019 8:18:34 AM

Quant Time: Sep 11 09:05:04 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	127127	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	528299	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	274650	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	452006	20.00	ng	0.00
76) Chrysene-d12	14.00	240	273969	20.00	ng	0.00
87) Perylene-d12	15.45	264	310505	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	133737	17.04	ng	0.00
7) Phenol-d6	6.47	99	186933	18.14	ng	-0.01
23) Nitrobenzene-d5	7.40	82	95874	10.36	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	32385	17.64	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	137343	8.44	ng	-0.01
79) Terphenyl-d14	12.94	244	124490	8.41	ng	-0.01
Target Compounds						
31) Naphthalene	8.15	128	401191	15.970	ng	Qvalue 100
37) 2-Methylnaphthalene	8.84	142	117190	7.011	ng	95
38) 1-Methylnaphthalene	8.94	142	87147	5.523	ng	95
49) Acenaphthylene	9.74	152	54036	2.166	ng	# 95
52) Acenaphthene	9.92	154	270300	17.631	ng	98
55) Dibenzofuran	10.09	168	298322	13.803	ng	96
58) Fluorene	10.43	166	350061	21.257	ng	98
71) Phenanthrene	11.40	178	2384010	94.748	ng	97
72) Anthracene	11.45	178	814066	32.140	ng	99
73) Carbazole	11.59	167	299163	12.399	ng	98
75) Fluoranthene	12.58	202	2024380	81.867	ng	95
78) Pylene	12.81	202	1851756	76.035	ng	97
81) Benzo(a)anthracene	13.99	228	702732	40.528	ng	99
83) Chrysene	14.02	228	590397m	33.050	ng	
86) Indeno(1,2,3-cd)pyrene	16.90	276	254801	17.758	ng	97
88) Benzo(b)fluoranthene	15.03	252	642575m	34.229	ng	
89) Benzo(k)fluoranthene	15.06	252	262521m	15.337	ng	
90) Benzo(a)pyrene	15.39	252	540075	33.068	ng	98
91) Dibenzo(a,h)anthracene	16.90	278	59383	4.154	ng	# 79
92) Benzo(a,h,i)perylene	17.33	276	221206	15.172	ng	# 93

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

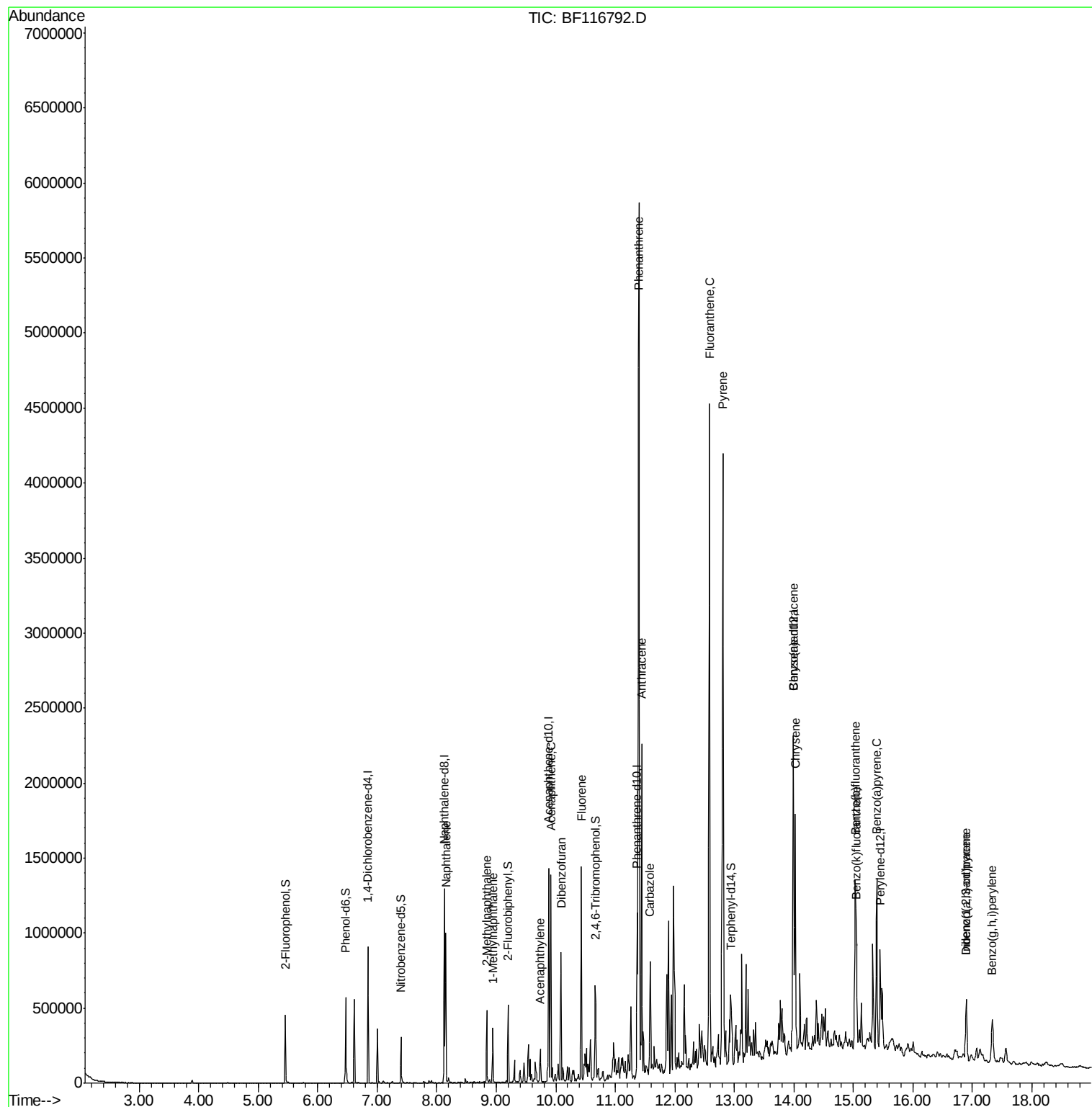
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090319\
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#1

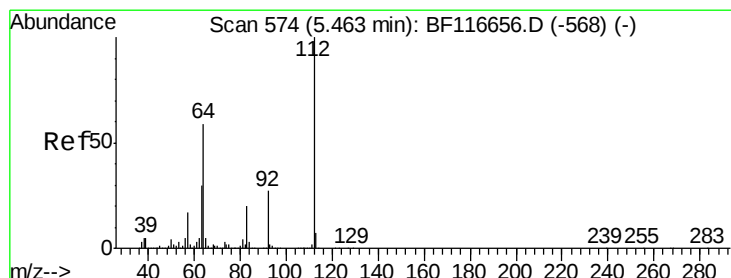
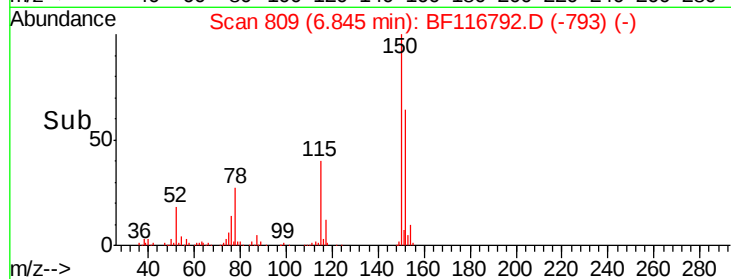
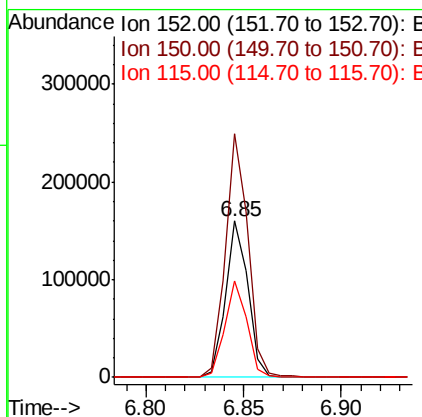
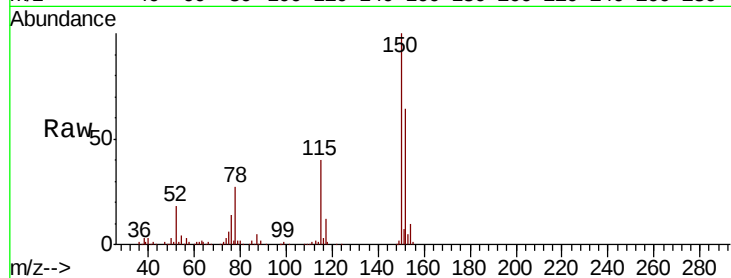
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	124.4	186.6
115	61.9	49.9	74.9

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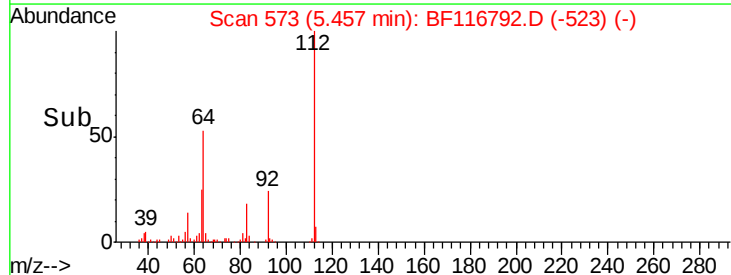
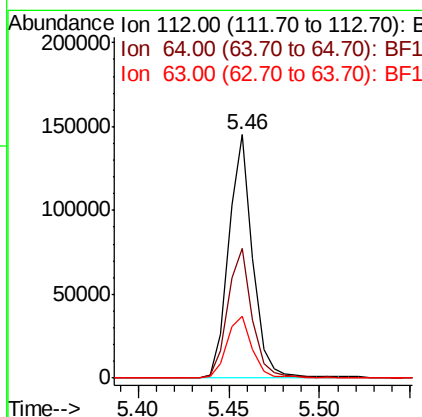
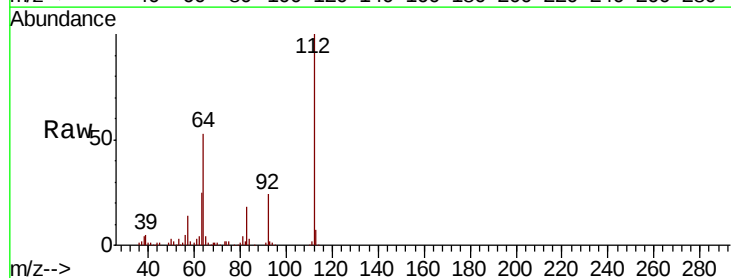
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#5

2-Fluorophenol
Concen: 17.043 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.1	47.1	70.7
63	25.4	24.9	37.3





#7

Phenol-d6

Concen: 18.142 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF116792.D

Acq: 4 Sep 2019 1:00

Instrument :

BNA_F

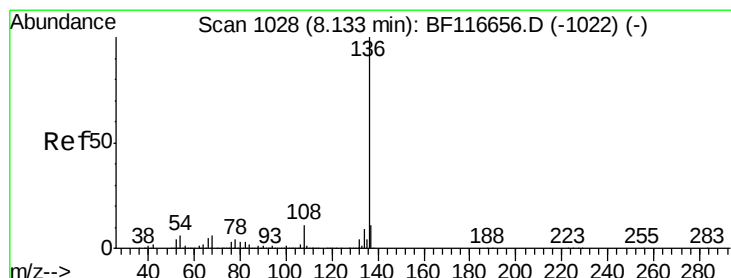
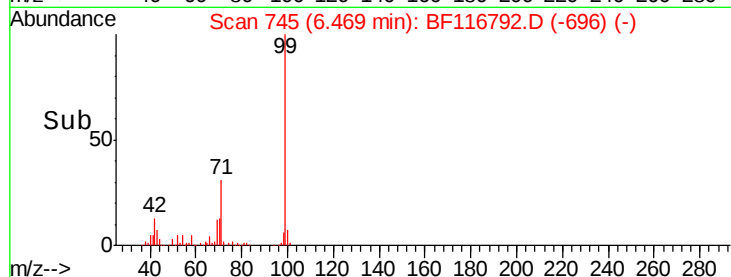
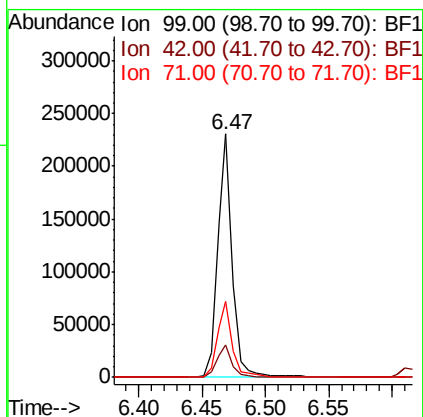
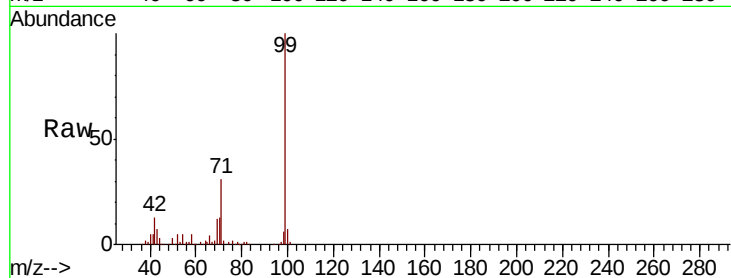
ClientSampleId :

SB-4-14-16DL

Tot Ion:	99	Resp:	186933
Ion Ratio	Lower	Upper	
99	100		
42	13.2	13.7	20.5#
71	31.2	30.8	46.2

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#21

Naphthalene-d8

Concen: 20.000 ng

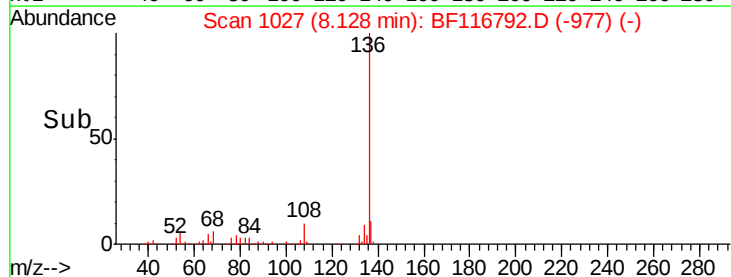
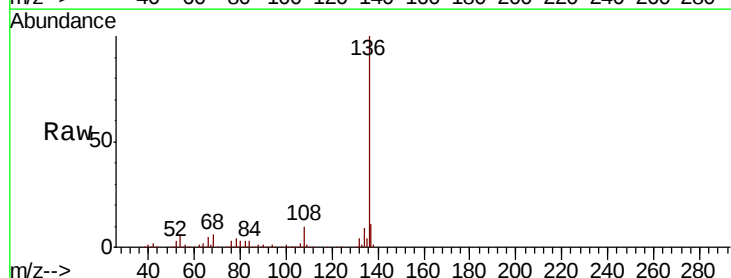
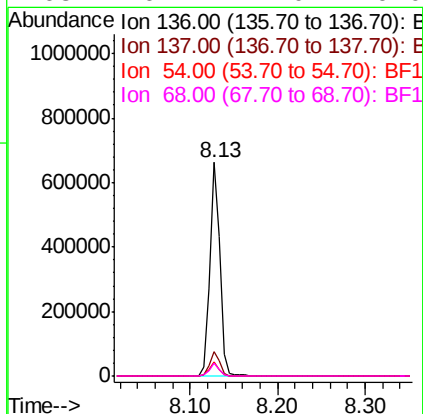
RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF116792.D

Acq: 4 Sep 2019 1:00

Tgt Ion:	136	Resp:	528299
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	6.4	4.8	7.2
68	6.1	4.0	6.0#





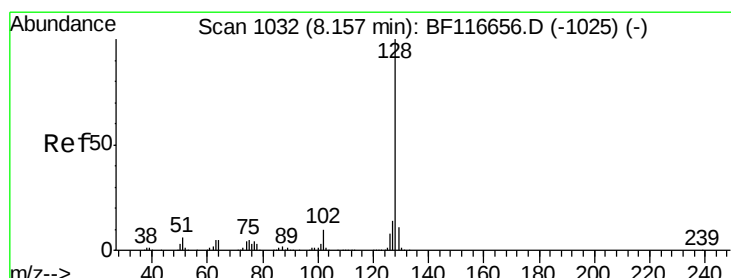
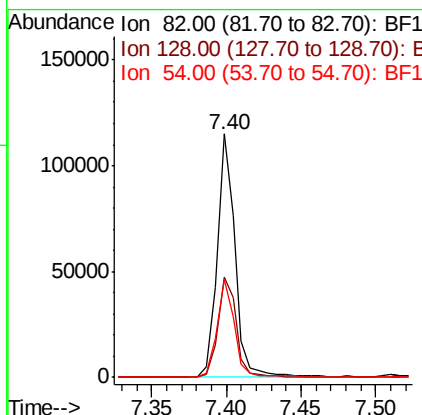
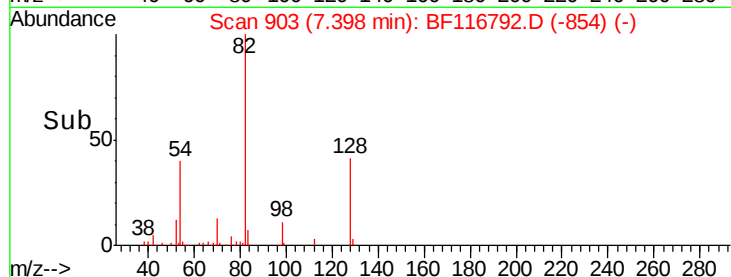
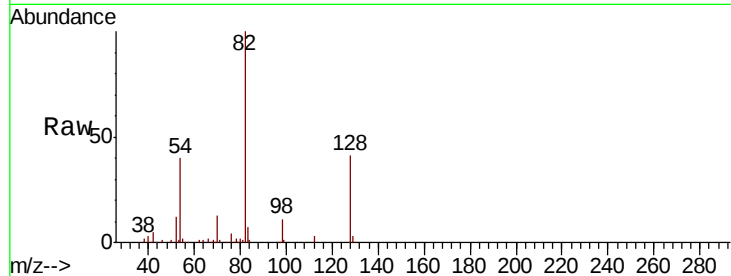
#23
Nitrobenzene-d5
Concen: 10.360 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	82	Resp	95874
Ion Ratio	Lower	Upper	
82	100		
128	41.1	32.8	49.2
54	40.1	36.9	55.3

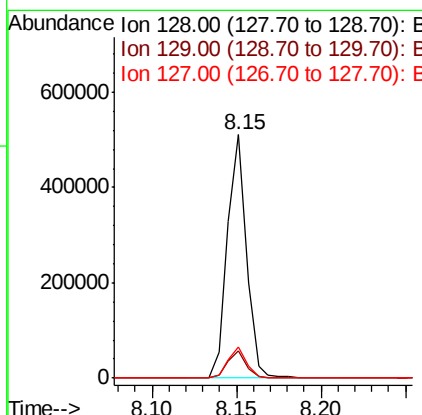
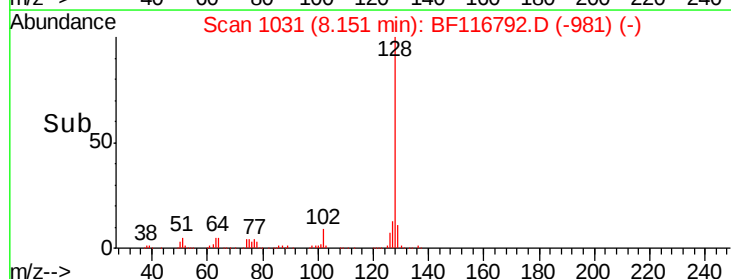
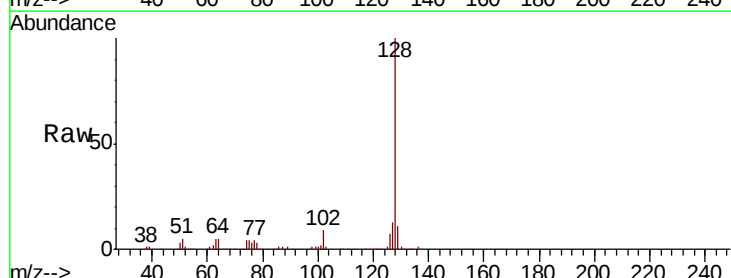
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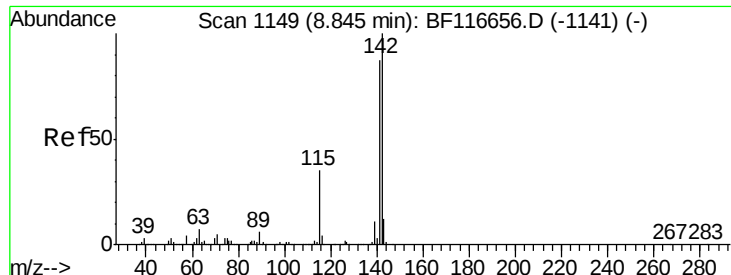
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#31
Naphthalene
Concen: 15.970 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	128	Resp	401191
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.6	13.0
127	12.9	10.4	15.6





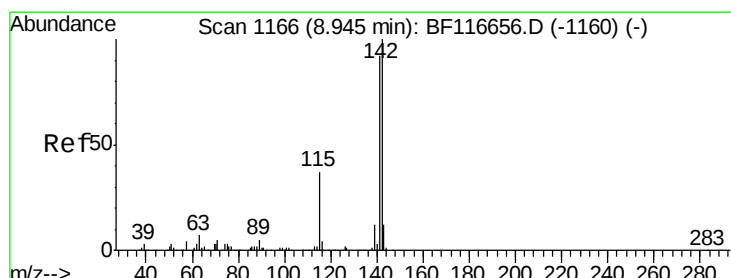
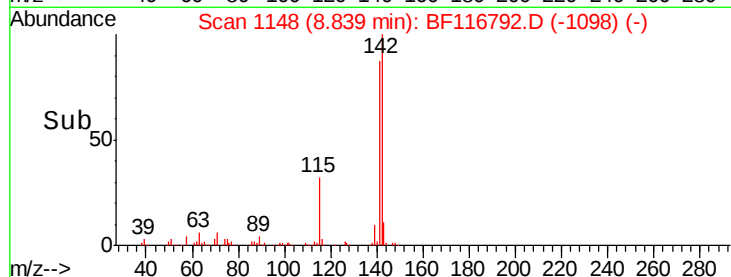
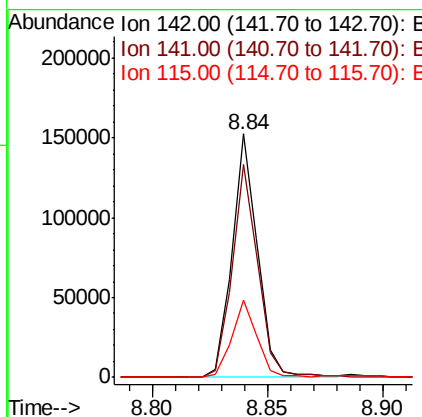
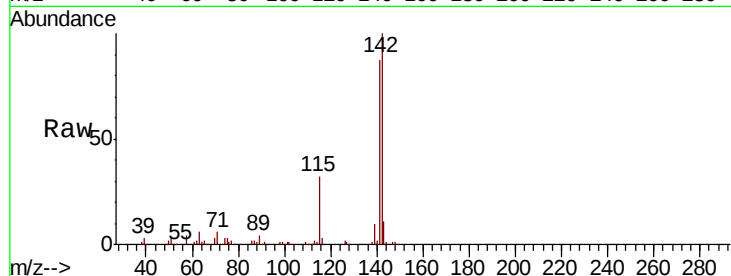
#37
2-Methylnaphthalene
Concen: 7.011 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	117190		
141	87.3	72.6	109.0	
115	31.8	29.8	44.6	

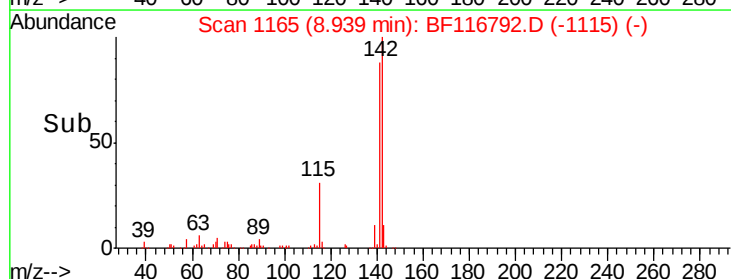
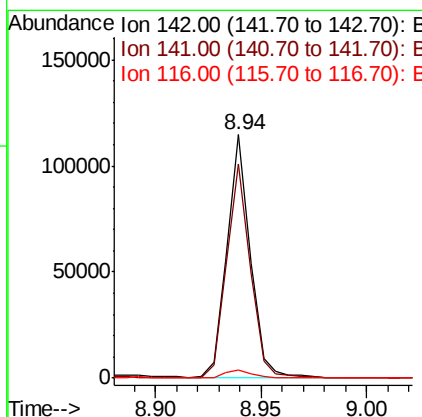
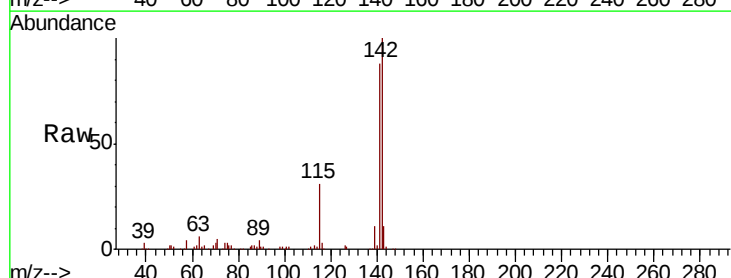
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#38
1-Methylnaphthalene
Concen: 5.523 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	87147		
141	87.8	73.9	110.9	
116	3.5	3.0	4.6	





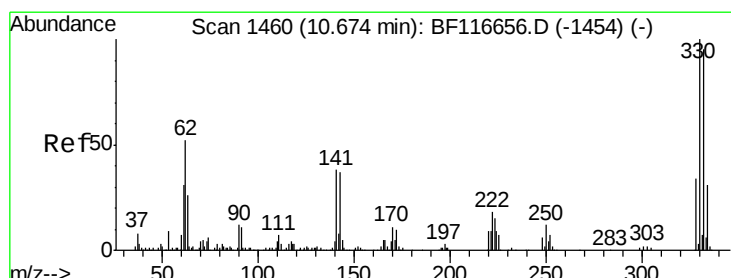
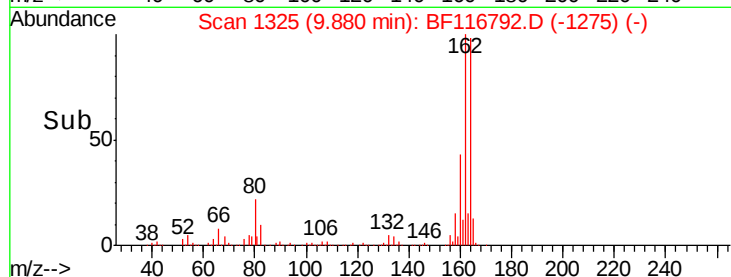
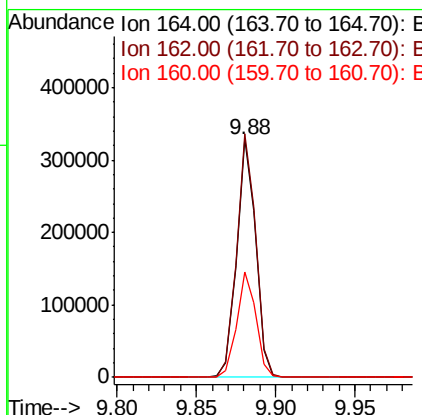
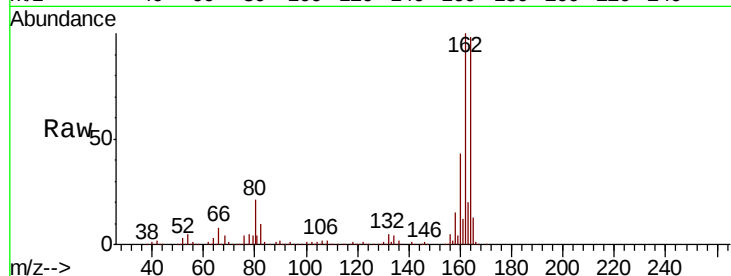
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100	274650		
162	102.1	81.4	122.0	
160	44.0	35.4	53.2	

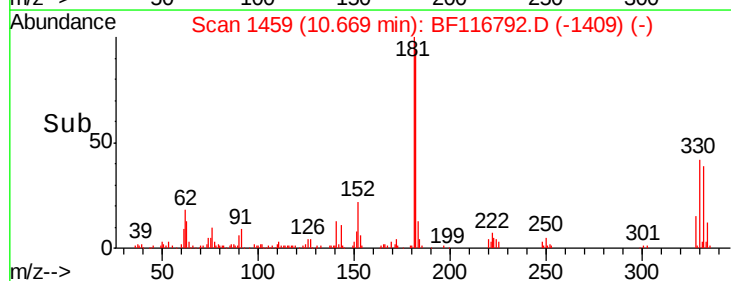
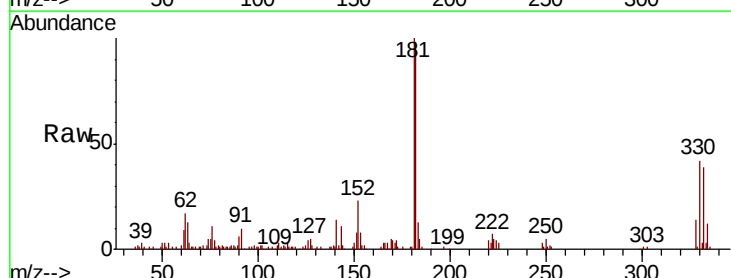
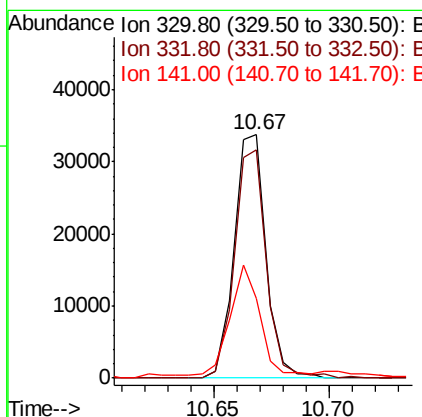
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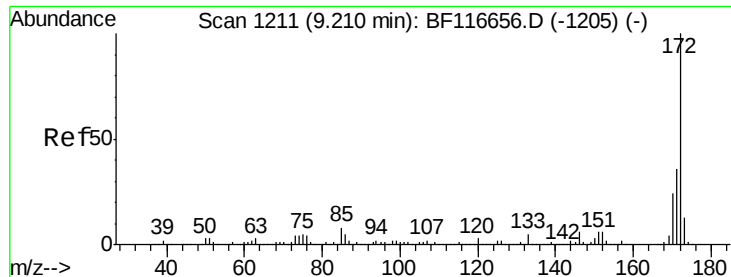
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#42
2,4,6-Tribromophenol
Concen: 17.638 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	32385		
332	94.1	76.9	115.3	
141	42.7	31.4	47.2	





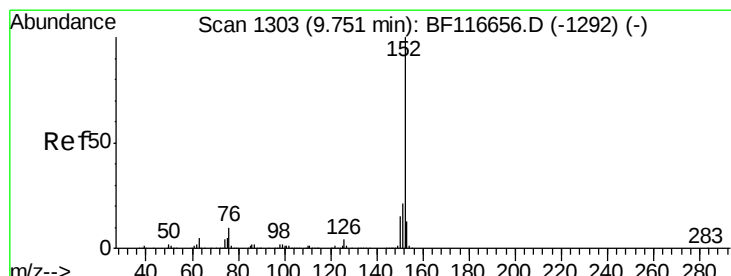
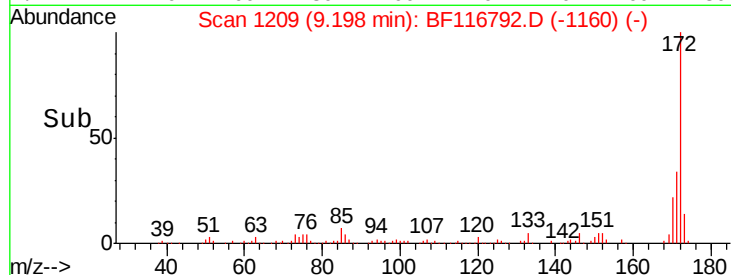
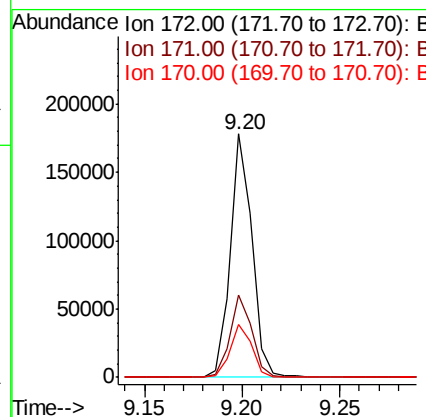
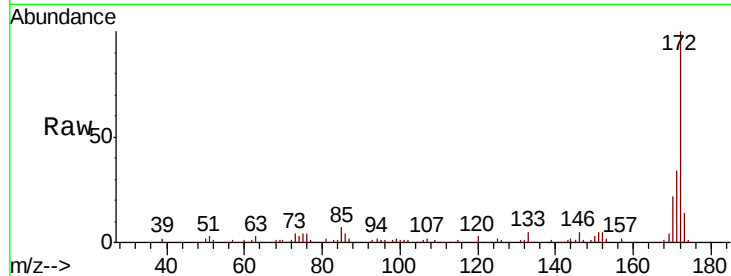
#45
2-Fluorobiphenyl
Concen: 8.436 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	137343		
171	33.9		27.8	41.6
170	22.0		18.9	28.3

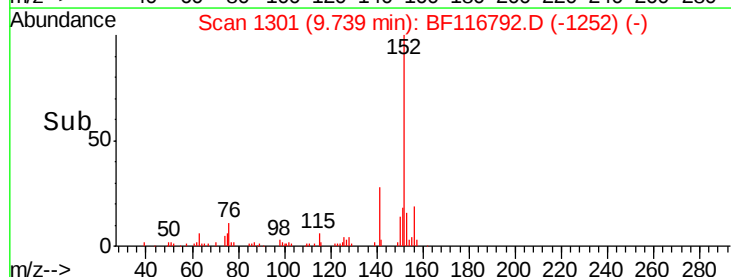
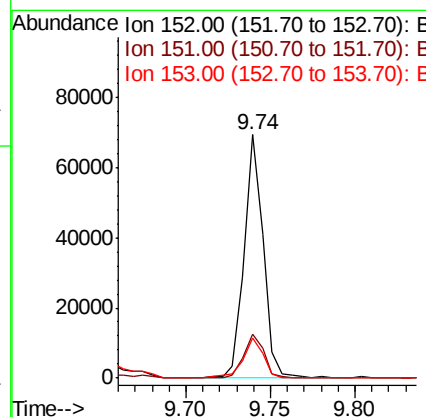
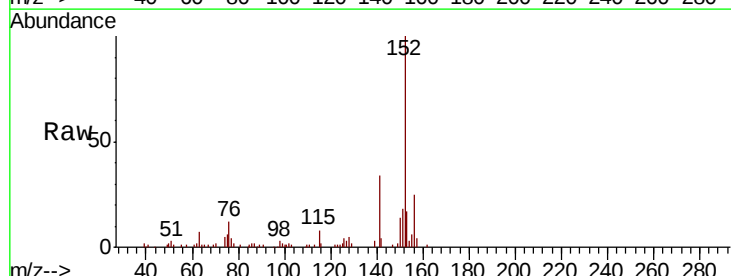
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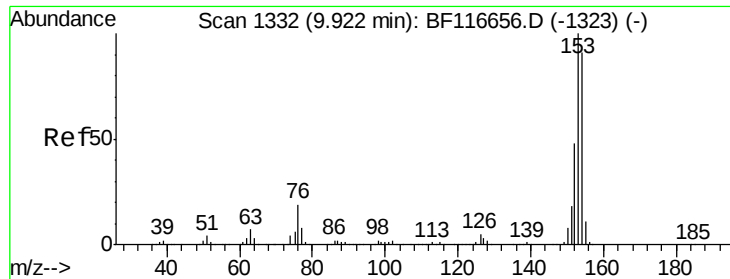
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#49
Acenaphthylene
Concen: 2.166 ng
RT: 9.74 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	54036		
151	18.1		15.9	23.9
153	16.7		10.9	16.3#





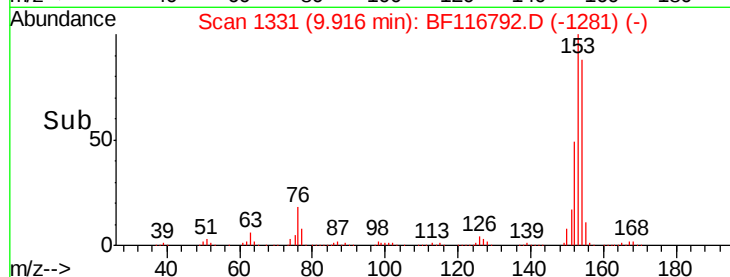
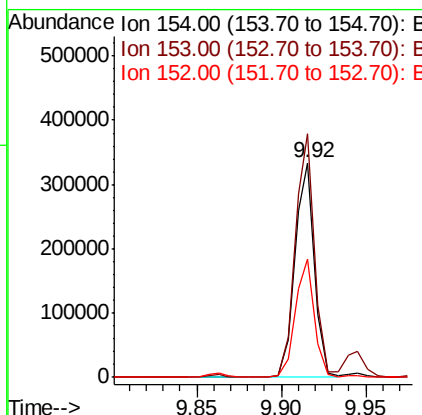
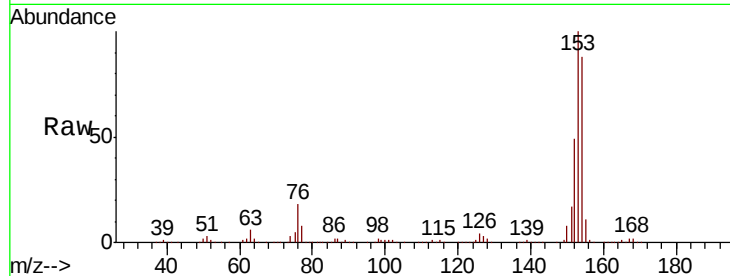
#52
Acenaphthene
Concen: 17.631 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleID :
SB-4-14-16DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.5	89.5	134.3
152	55.3	41.9	62.9

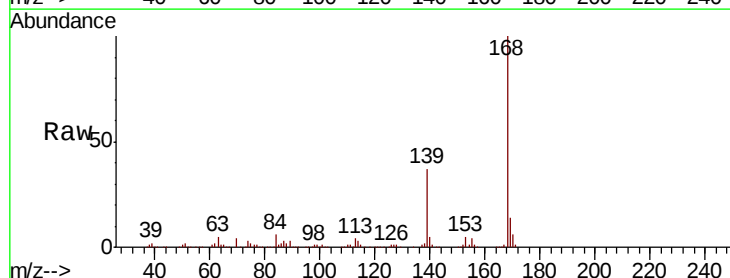
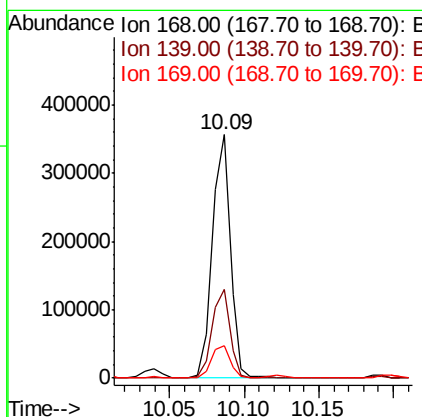
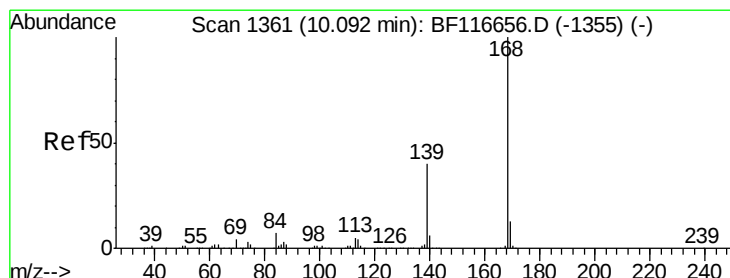
Manual Integrations
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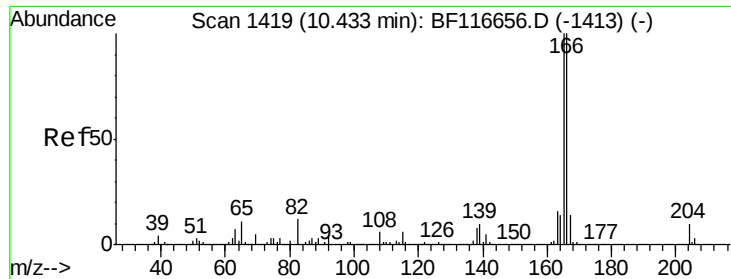
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#55
Dibenzofuran
Concen: 13.803 ng
RT: 10.09 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.6	31.5	47.3
169	13.6	10.3	15.5





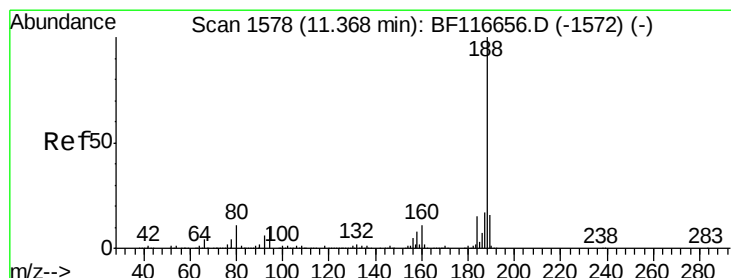
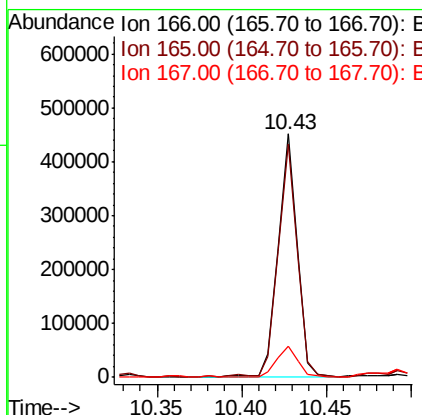
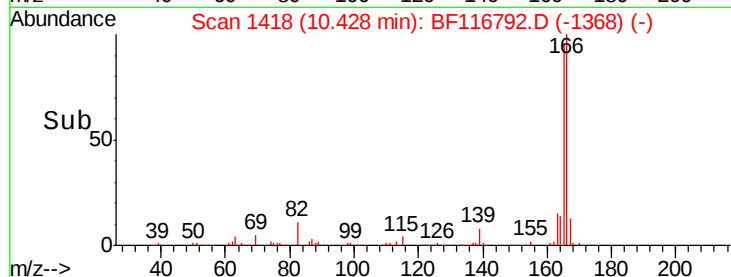
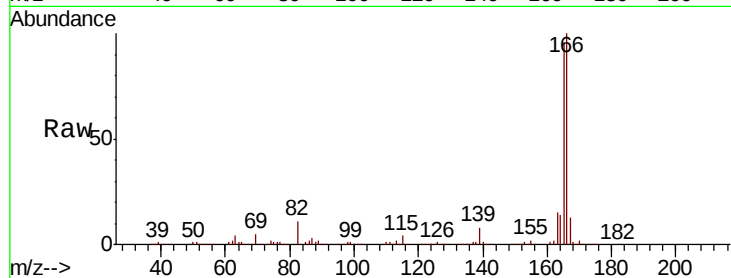
#58
 Fluorene
 Concen: 21.257 ng
 RT: 10.43 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: BF116792.D
 Acq: 4 Sep 2019 1:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-14-16DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	95.9	78.8	118.2
167	12.9	10.0	15.0

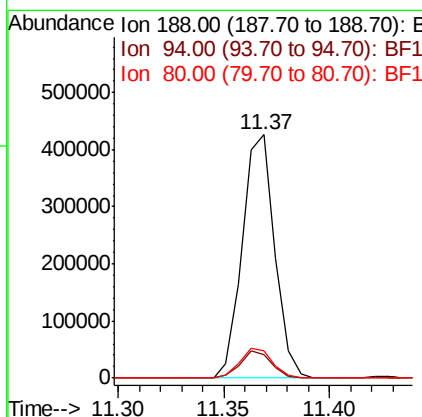
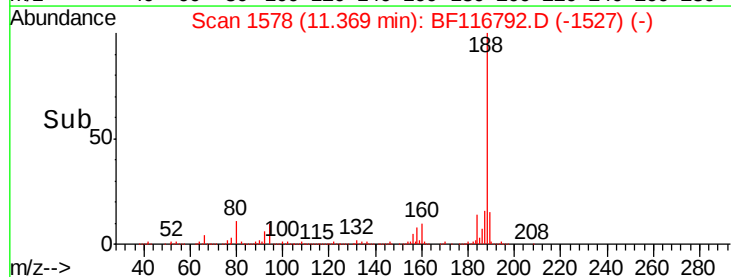
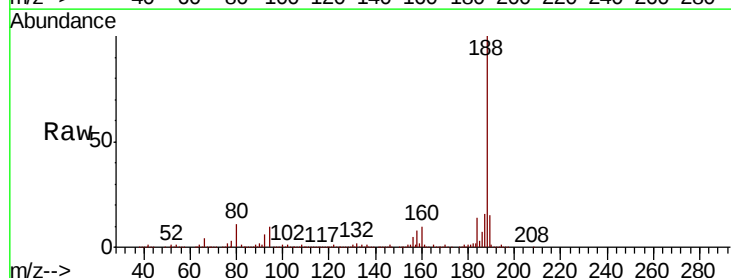
Manual Integrations
 APPROVED

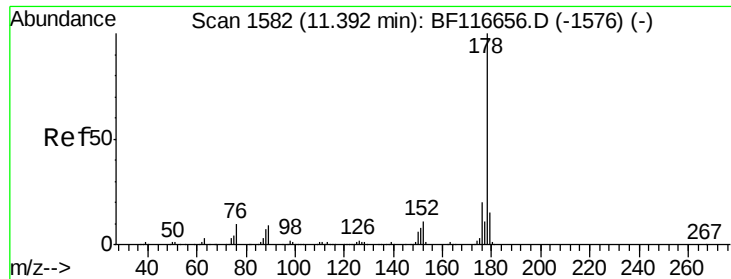
mohammad
 9/6/2019 8:18:34 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: BF116792.D
 Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.3	10.9
80	11.0	8.4	12.6





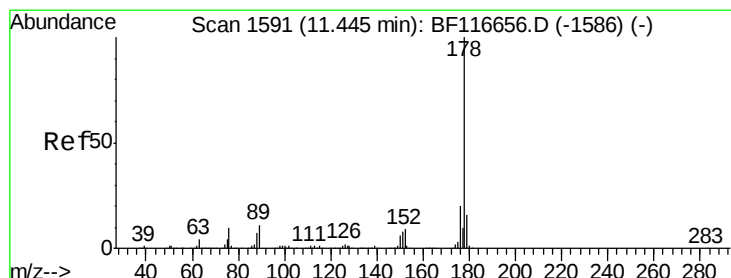
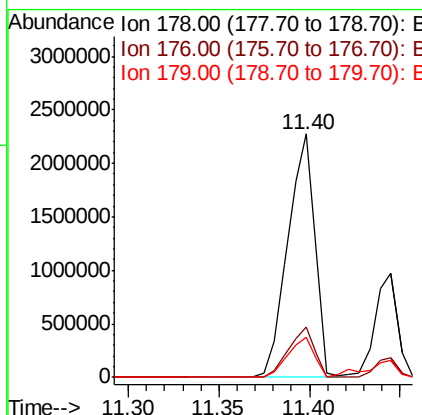
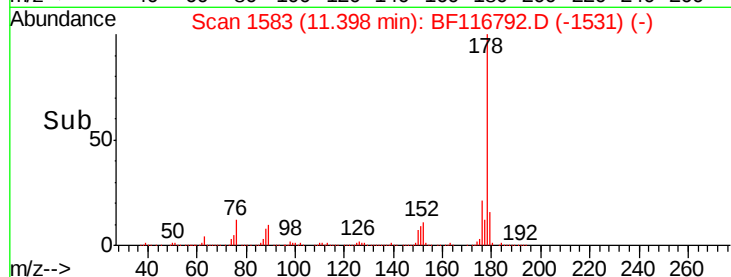
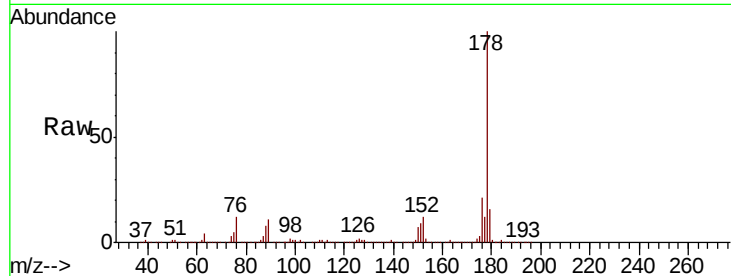
#71
Phenanthrene
Concen: 94.748 ng
RT: 11.40 min Scan# 1583
Delta R.T. 0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.9	15.4	23.0
179	16.4	12.2	18.2

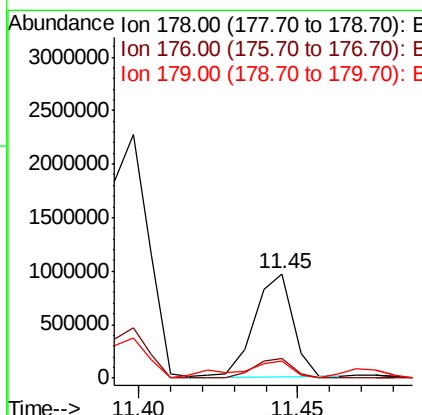
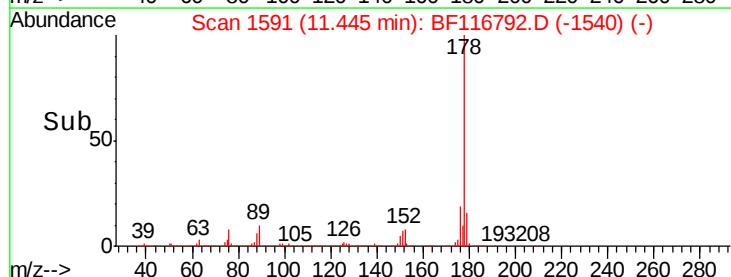
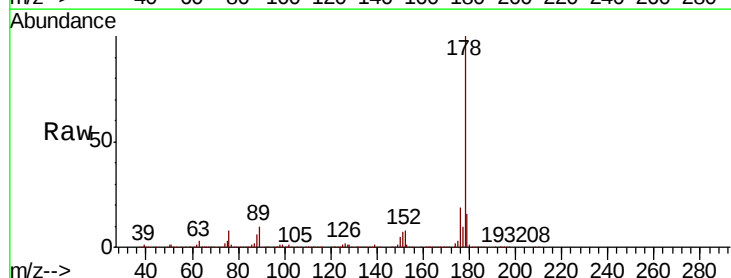
Manual Integrations
APPROVED

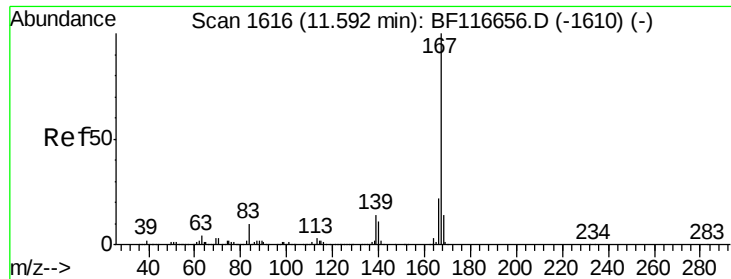
mohammad
9/6/2019 8:18:34 AM



#72
Anthracene
Concen: 32.140 ng
RT: 11.45 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.8	12.5	18.7





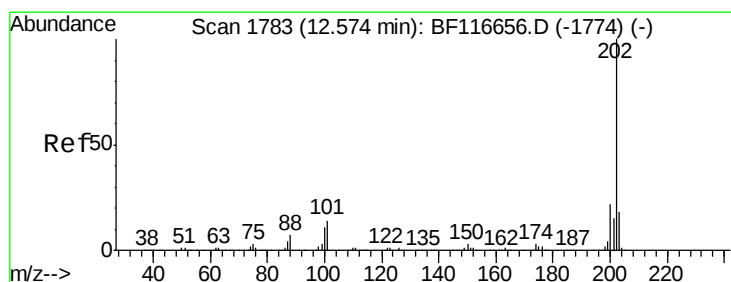
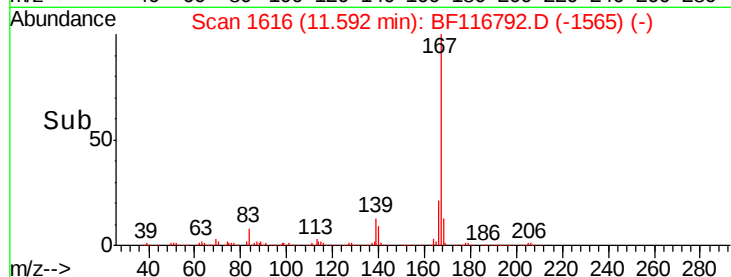
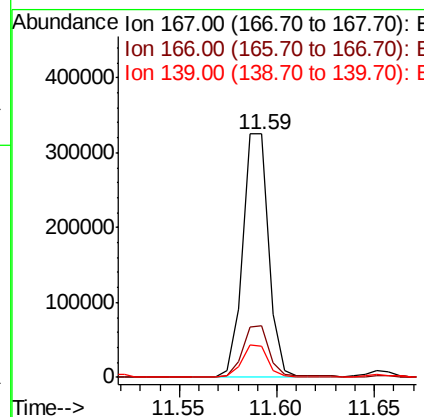
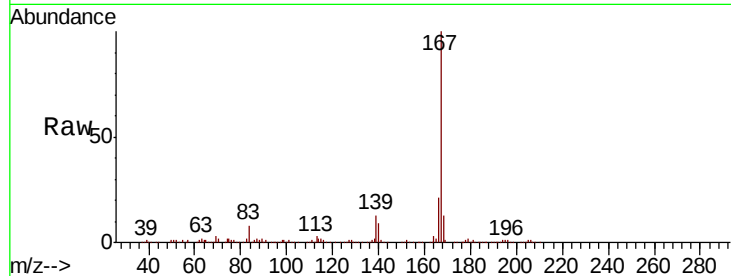
#73
 Carbazole
 Concen: 12.399 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. 0.00 min
 Lab File: BF116792.D
 Acq: 4 Sep 2019 1:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-14-16DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.8	26.6
139	12.7	11.1	16.7

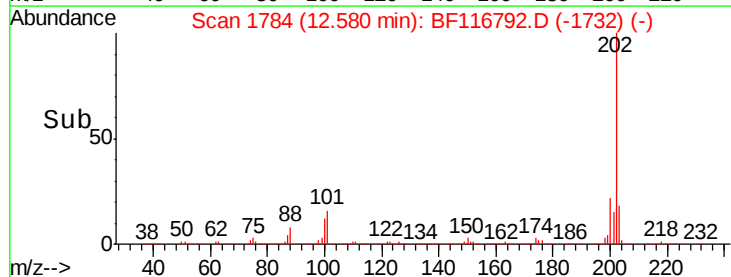
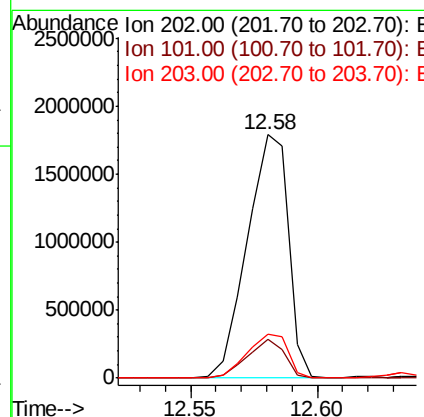
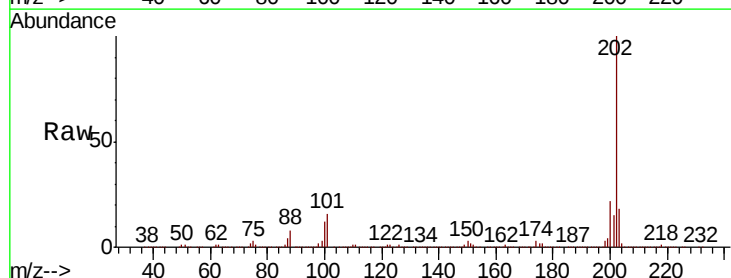
Manual Integrations
 APPROVED

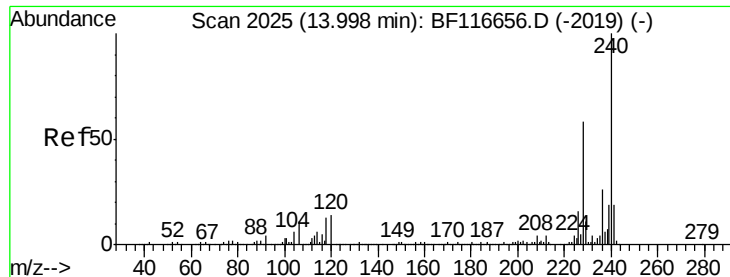
mohammad
 9/6/2019 8:18:34 AM



#75
 Fluoranthene
 Concen: 81.867 ng
 RT: 12.58 min Scan# 1784
 Delta R.T. 0.01 min
 Lab File: BF116792.D
 Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.8	0.0	31.3
203	18.0	0.0	37.6





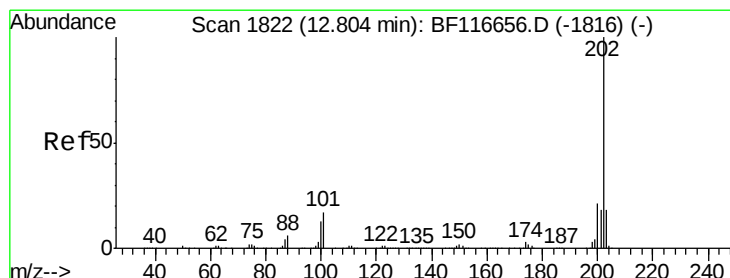
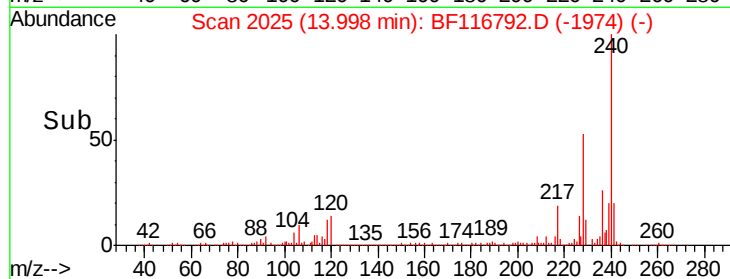
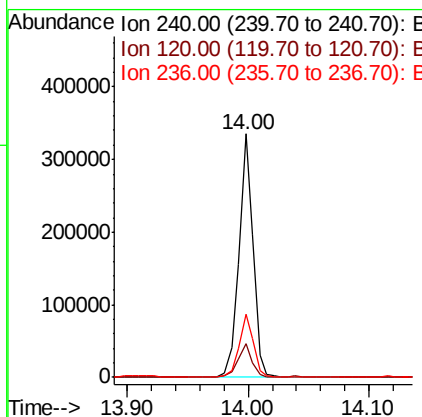
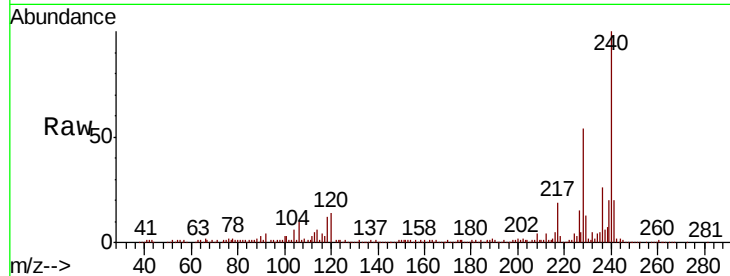
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.00 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	273969		
120	13.8	9.1	13.7#	
236	25.9	21.1	31.7	

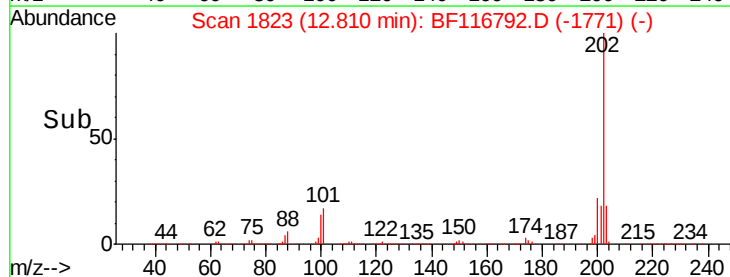
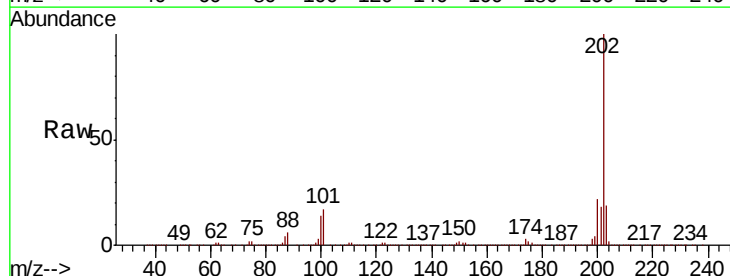
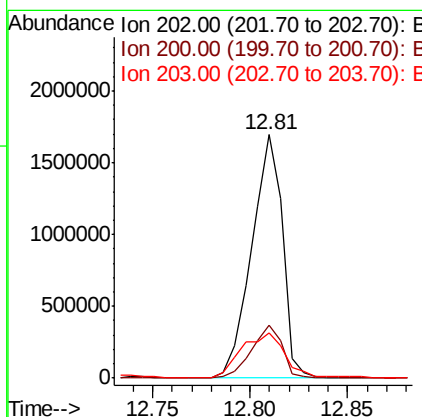
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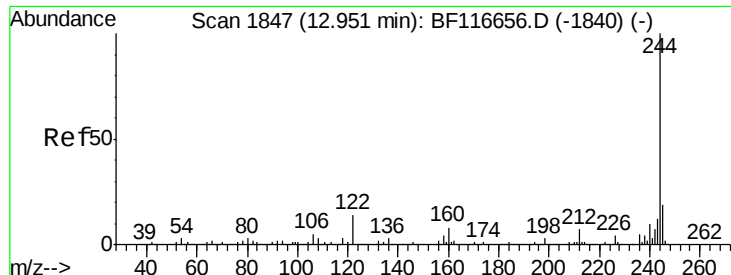
mohammad
9/6/2019 8:18:34 AM



#78
Pyrene
Concen: 76.035 ng
RT: 12.81 min Scan# 1823
Delta R.T. 0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1851756		
200	21.9	16.5	24.7	
203	18.7	13.7	20.5	





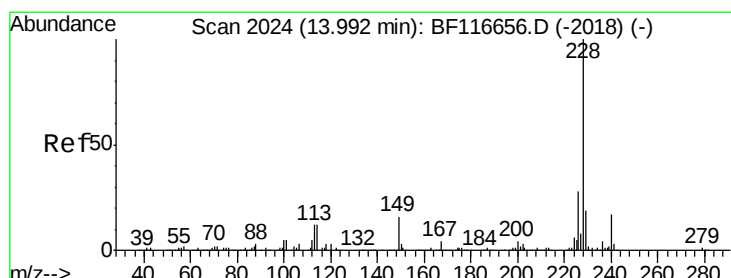
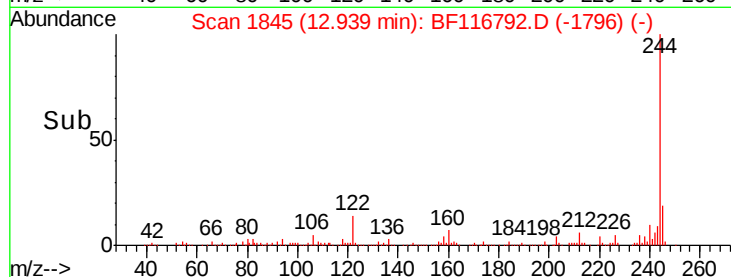
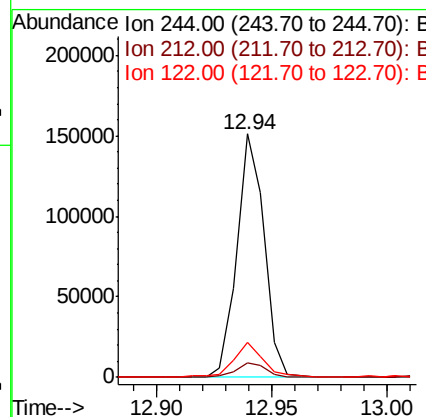
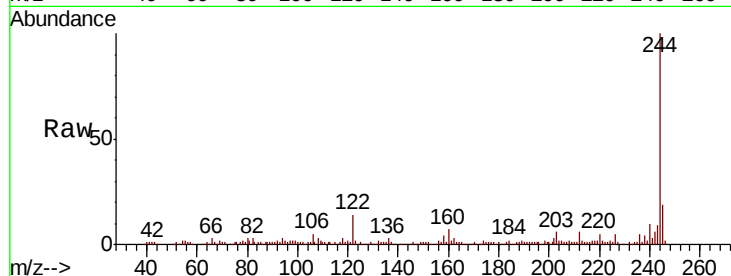
#79
 Terphenyl-d14
 Concen: 8.406 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: BF116792.D
 Acq: 4 Sep 2019 1:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-14-16DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.1	6.1	9.1
122	14.2	10.2	15.4

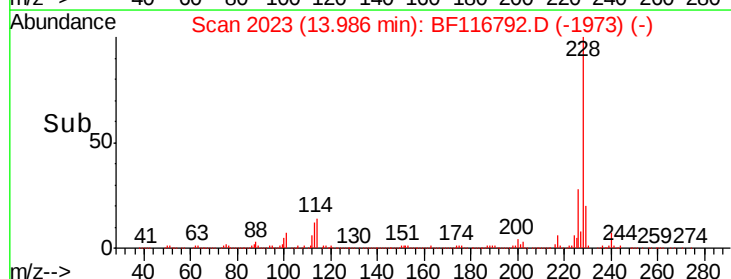
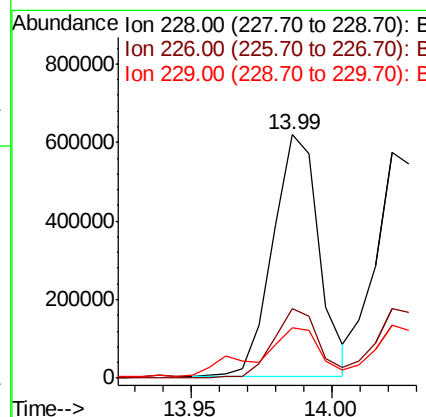
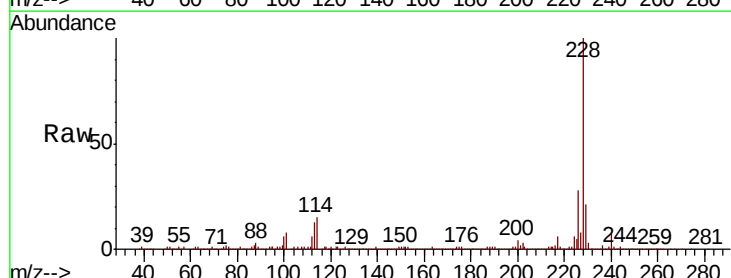
Manual Integrations
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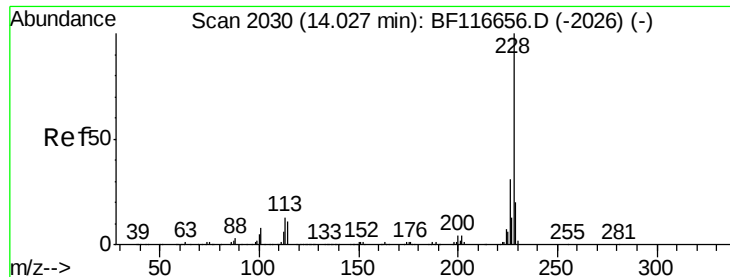
mohammad
 9/6/2019 8:18:34 AM



#81
 Benzo(a)anthracene
 Concen: 40.528 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. -0.01 min
 Lab File: BF116792.D
 Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.0	33.0
229	20.7	16.4	24.6





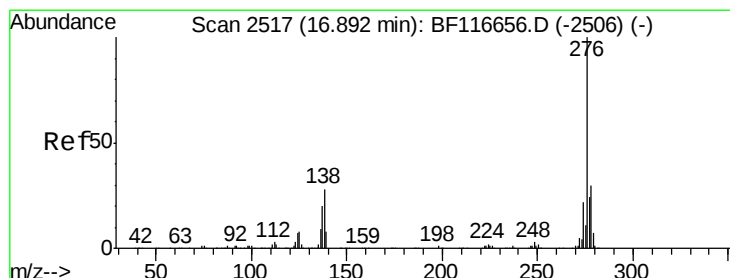
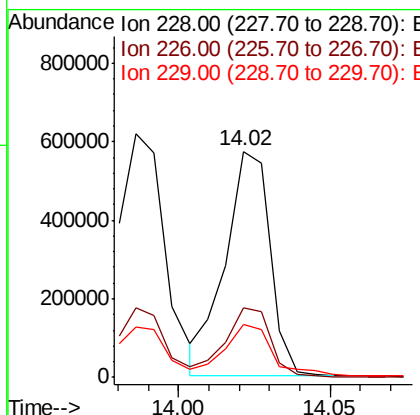
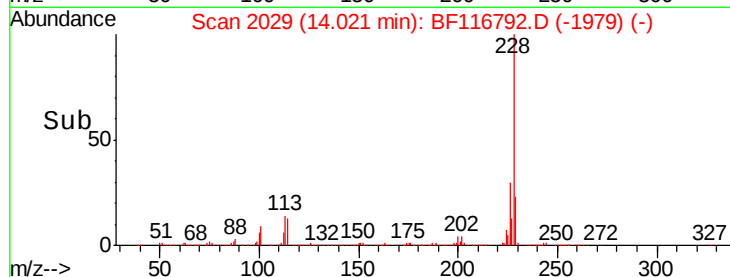
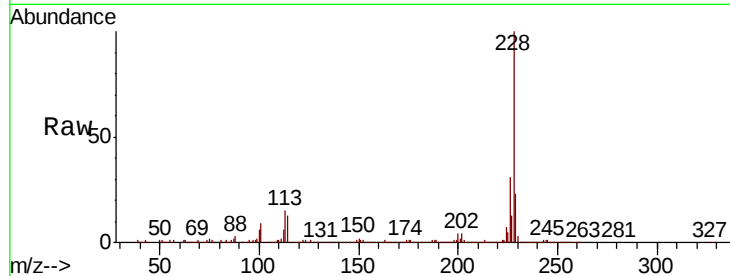
#83
Chrysene
Concen: 33.050 ng m
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.0	36.0
229	23.3	15.4	23.0

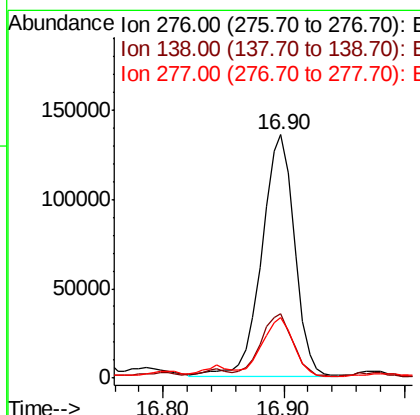
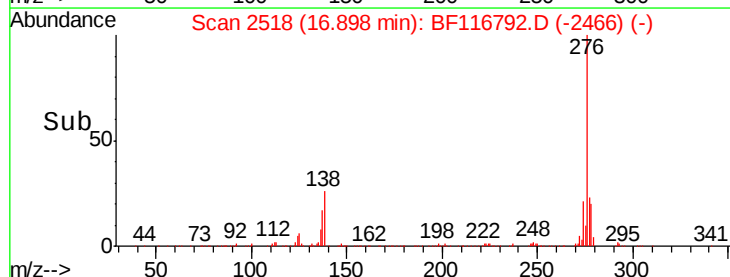
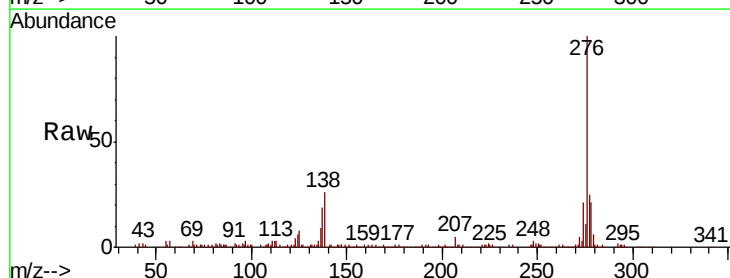
Manual Integrations
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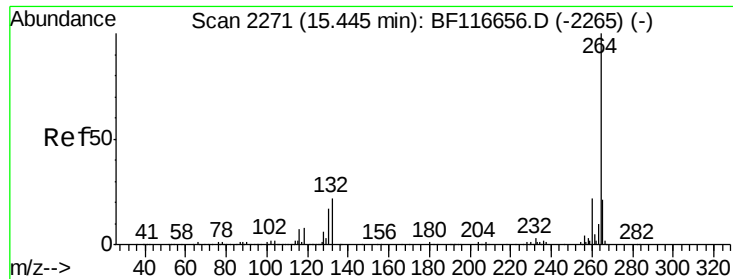
mohammad
9/6/2019 8:18:34 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 17.758 ng
RT: 16.90 min Scan# 2518
Delta R.T. 0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.7	19.4	29.2
277	23.5	20.5	30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.45 min Scan# 2272

Delta R.T. 0.01 min

Lab File: BF116792.D

Acq: 4 Sep 2019 1:00

Instrument :

BNA_F

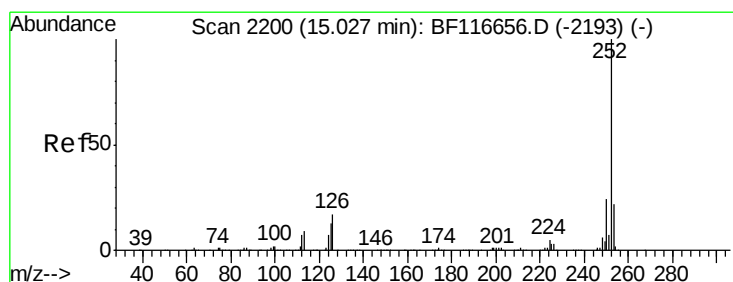
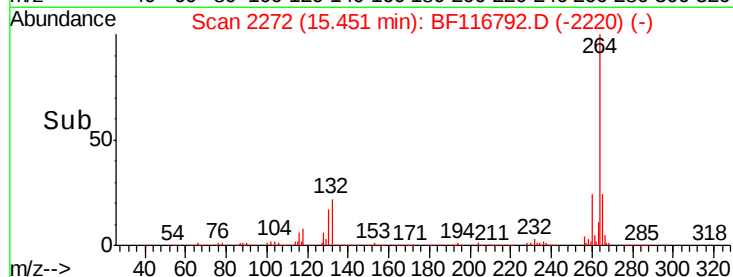
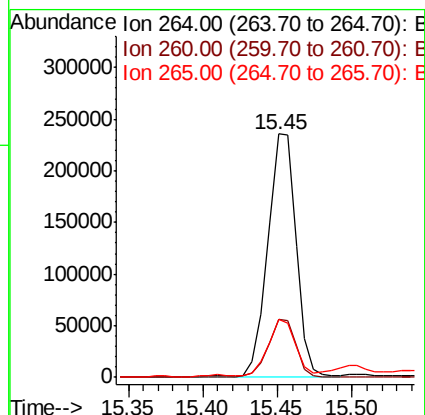
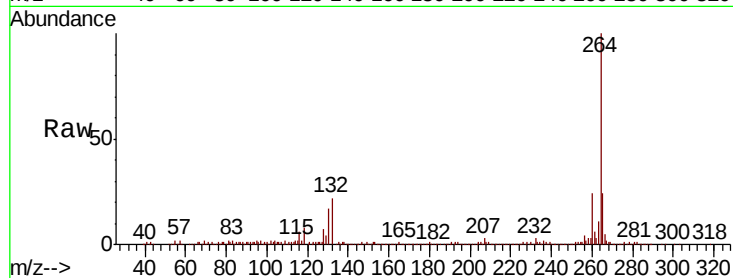
ClientSampleId :

SB-4-14-16DL

Tot Ion:	264	Resp:	310505
Ion Ratio		Lower	Upper
264	100		
260	23.9	18.3	27.5
265	23.9	16.5	24.7

Manual Integrations
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mohammad
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#88

Benzo(b)fluoranthene

Concen: 34.229 ng m

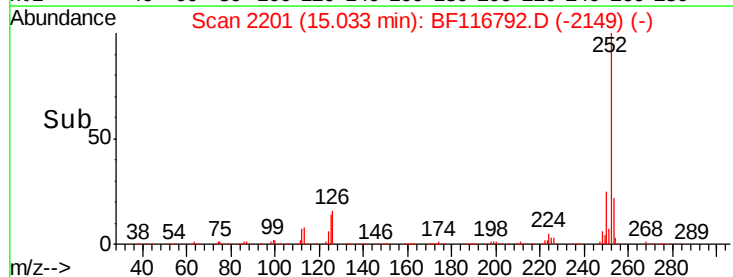
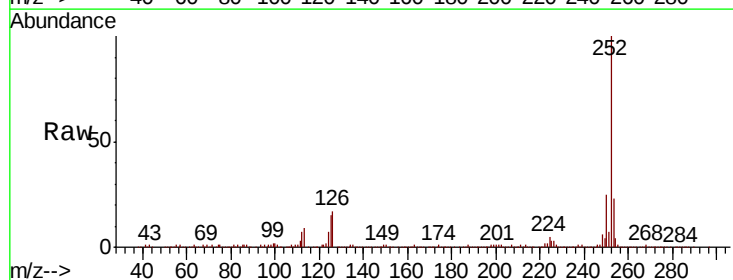
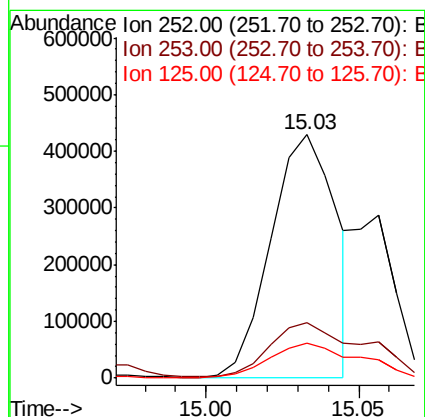
RT: 15.03 min Scan# 2201

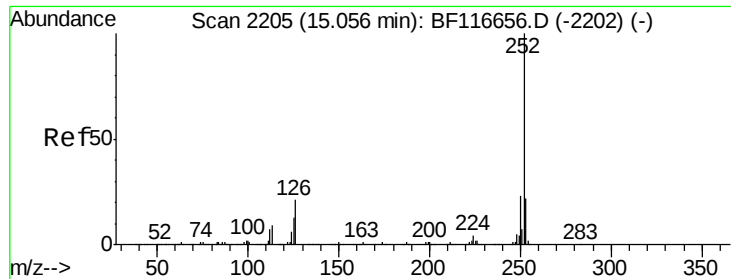
Delta R.T. 0.01 min

Lab File: BF116792.D

Acq: 4 Sep 2019 1:00

Tgt Ion:	252	Resp:	642575
Ion Ratio		Lower	Upper
252	100		
253	22.7	17.7	26.5
125	14.5	8.2	12.2#





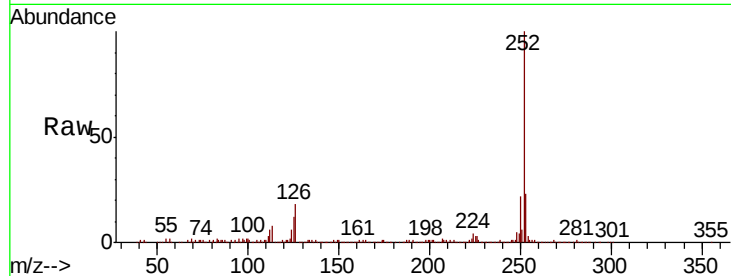
#89
Benzo(k)fluoranthene
Concen: 15.337 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.00 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

Instrument :
BNA_F
ClientSampleId :
SB-4-14-16DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	11.6	8.6	13.0

Manual Integrations
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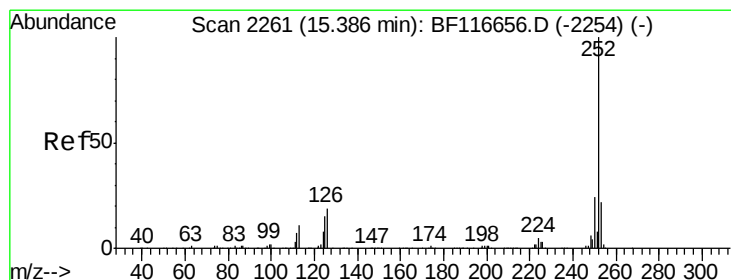
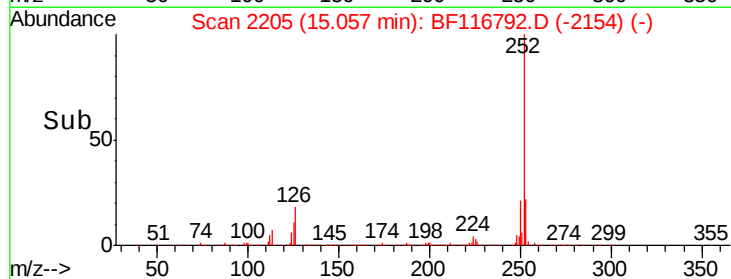
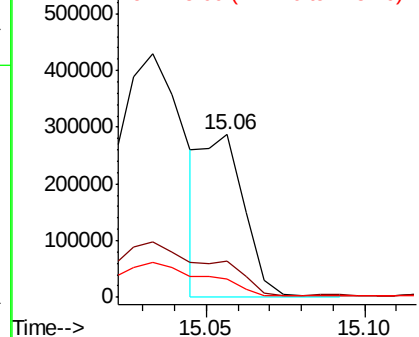


Abundance

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



#90
Benzo(a)pyrene
Concen: 33.068 ng
RT: 15.39 min Scan# 2262
Delta R.T. 0.01 min
Lab File: BF116792.D
Acq: 4 Sep 2019 1:00

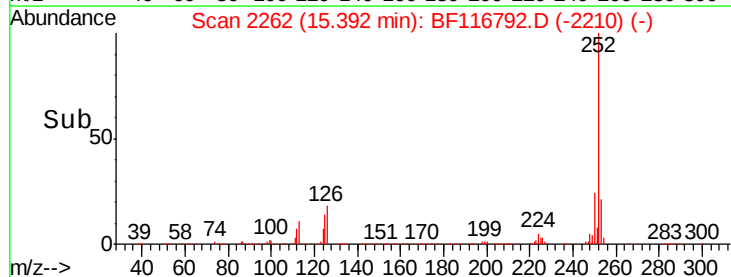
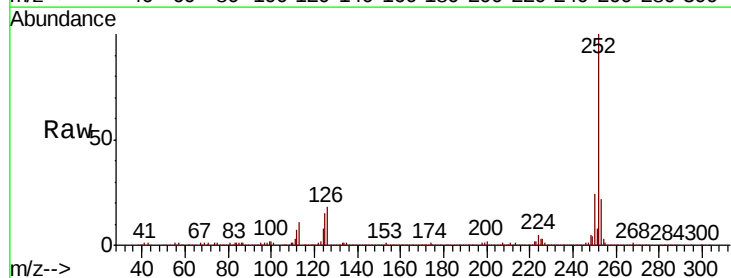
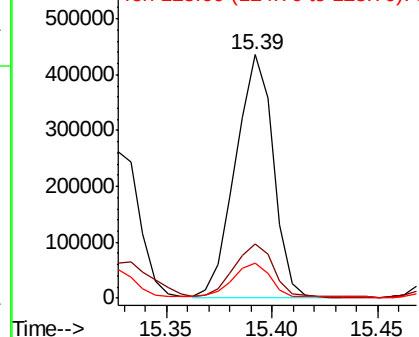
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.1	27.1
125	14.6	9.8	14.8

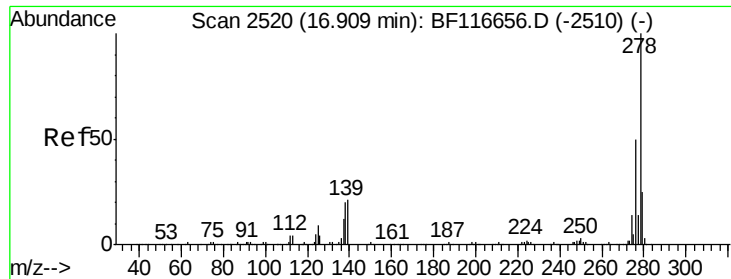
Abundance

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: 4.154 ng

RT: 16.90 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BF116792.D

Acq: 4 Sep 2019 1:00

Instrument :

BNA_F

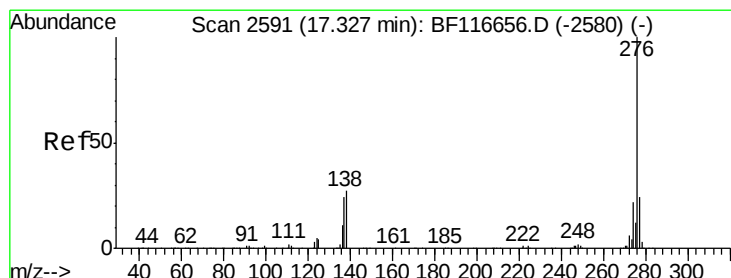
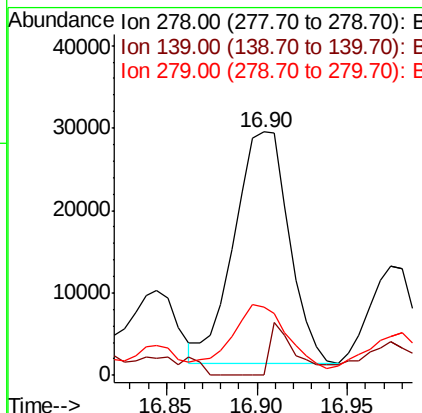
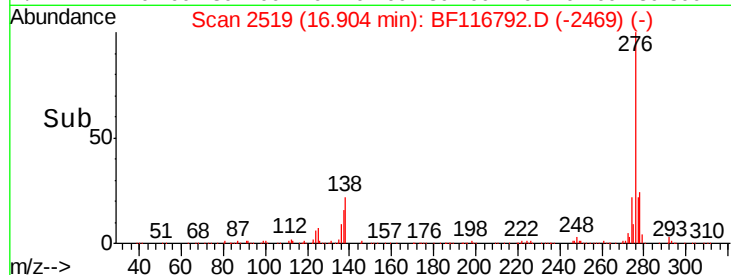
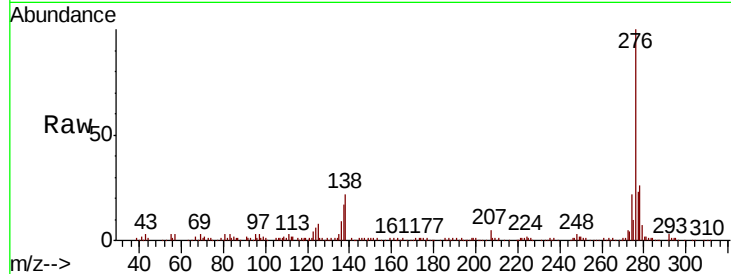
ClientSampleId :

SB-4-14-16DL

Tot Ion:	278	Resp:	59383
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.4	18.6#
279	27.8	18.2	27.4#

Manual Integrations
APPROVED

mohammad
9/6/2019 8:18:34 AM



#92

Benzo(g,h,i)perylene

Concen: 15.172 ng

RT: 17.33 min Scan# 2592

Delta R.T. 0.01 min

Lab File: BF116792.D

Acq: 4 Sep 2019 1:00

Tgt Ion:	276	Resp:	221206
Ion Ratio	Lower	Upper	
276	100		
277	23.6	18.5	27.7
138	26.4	16.2	24.2#

