

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090119\
 Data File : BF116744.D
 Acq On : 1 Sep 2019 15:59
 Operator : HP/JU
 Sample : K4544-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T16-17-B1-B4-(0-2.25)

Manual Integrations
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mohammad
 9/5/2019 9:54:26 AM

Quant Time: Sep 02 05:49:52 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	121397	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	476316	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	237165	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	334587	20.00	ng	0.00
76) Chrysene-d12	14.00	240	219241	20.00	ng	0.00
87) Perylene-d12	15.47	264	234136	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	684286	91.32	ng	0.00
7) Phenol-d6	6.47	99	925893	94.10	ng	0.00
23) Nitrobenzene-d5	7.40	82	562359	67.40	ng	0.00
42) 2,4,6-Tribromophenol	10.66	330	137769	86.89	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	885074	62.95	ng	0.00
79) Terphenyl-d14	12.95	244	630682	53.22	ng	0.00
Target Compounds						
10) Phenol	6.49	94	68672	6.303	ng	94
31) Naphthalene	8.15	128	126581	5.589	ng	99
37) 2-Methylnaphthalene	8.84	142	58020	3.850	ng	94
38) 1-Methylnaphthalene	8.94	142	39012	2.742	ng	95
50) Dimethylphthalate	9.59	163	135024	8.246	ng	97
52) Acenaphthene	9.91	154	66682	5.037	ng	95
55) Dibenzofuran	10.08	168	58636	3.142	ng	# 96
58) Fluorene	10.42	166	62354	4.385	ng	# 99
71) Phenanthrene	11.39	178	662134	35.550	ng	99
72) Anthracene	11.43	178	163164	8.703	ng	99
73) Carbazole	11.59	167	79149	4.432	ng	97
75) Fluoranthene	12.57	202	833561	45.540	ng	97
78) Pyrene	12.80	202	772307	39.628	ng	98
81) Benzo(a)anthracene	13.99	228	410110	29.556	ng	97
83) Chrysene	14.03	228	385125	26.941	ng	97
84) Bis(2-ethylhexyl)phthalate	13.98	149	33303	2.847	ng	99
86) Indeno(1,2,3-cd)pyrene	16.92	276	173833	15.139	ng	98
88) Benzo(b)fluoranthene	15.04	252	446964m	31.575	ng	
89) Benzo(k)fluoranthene	15.06	252	159929m	12.391	ng	
90) Benzo(a)pyrene	15.40	252	320285	26.007	ng	# 89
91) Dibenzo(a,h)anthracene	16.92	278	47527	4.409	ng	# 69
92) Benzo(g,h,i)perylene	17.35	276	159979	14.551	ng	# 89

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

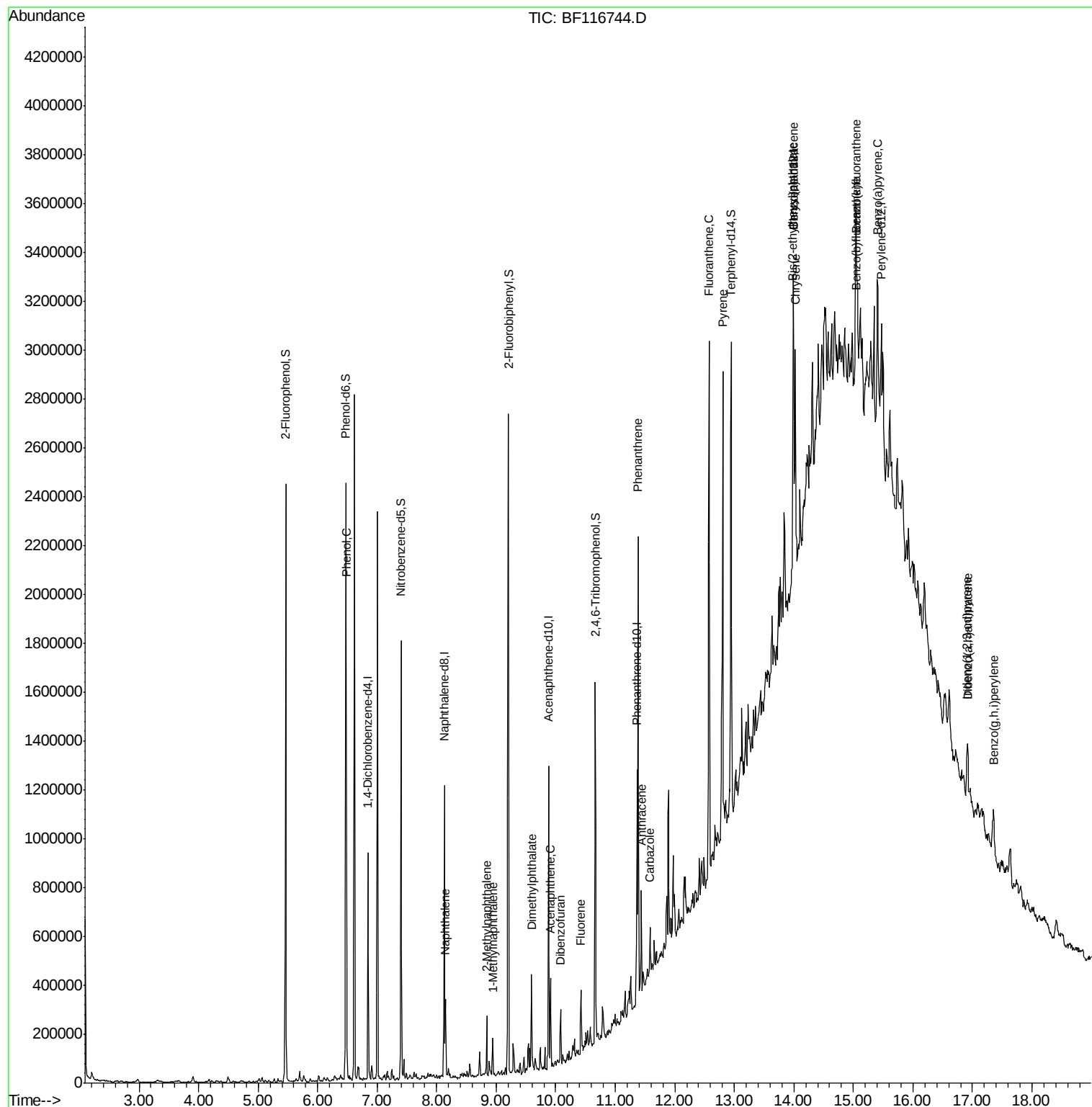
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090119\
Data File : BF116744.D
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ALS Vial : 7 Sample Multiplier: 1

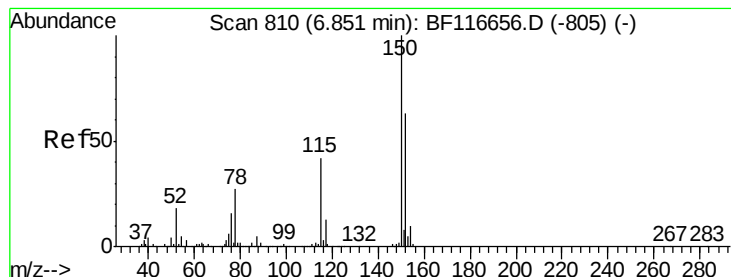
Instrument :
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ClientSampleId :
T16-17-B1-B4-(0-2.25)

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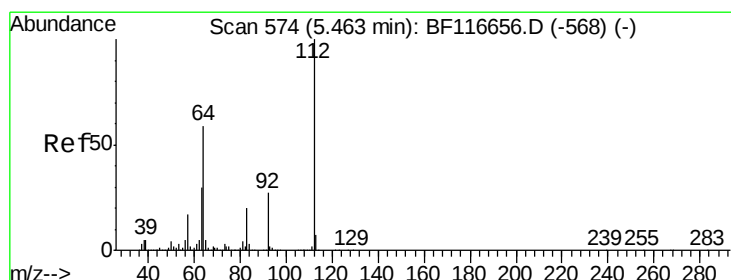
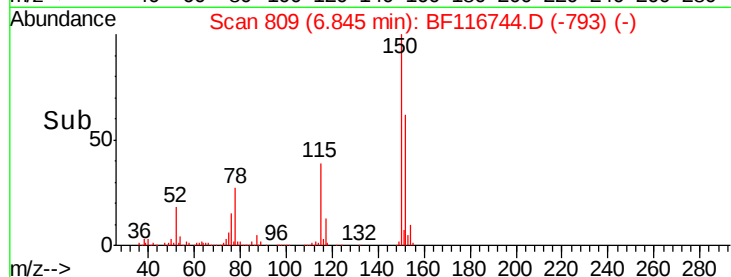
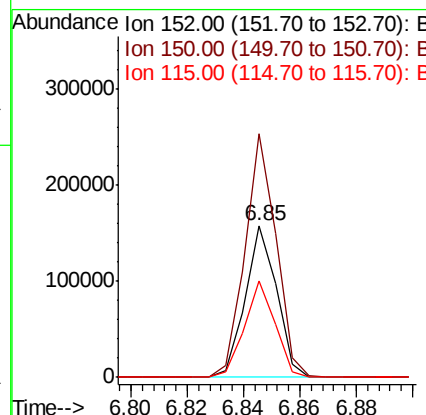
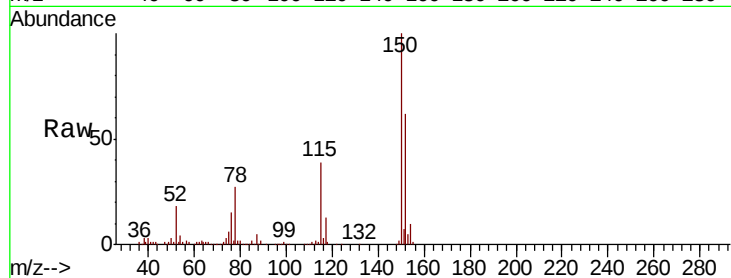
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: BF116744.D
 Acq: 1 Sep 2019 15:59

Instrument :
 BNA_F
 ClientSampleId :
 T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.7	124.4	186.6
115	63.5	49.9	74.9

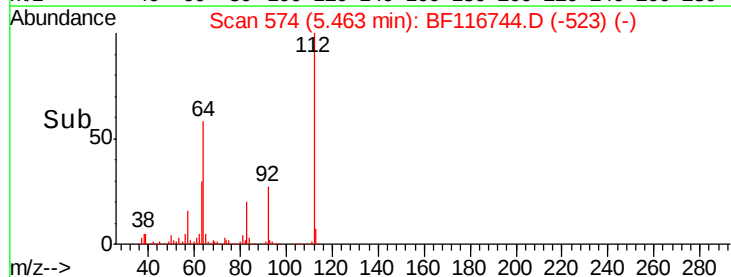
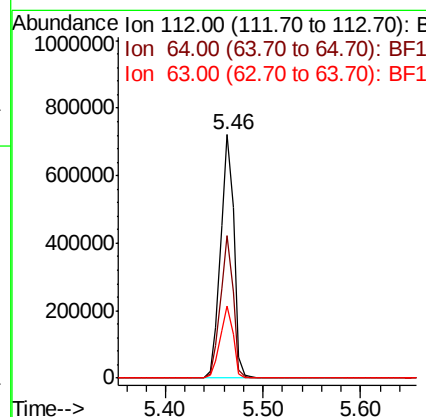
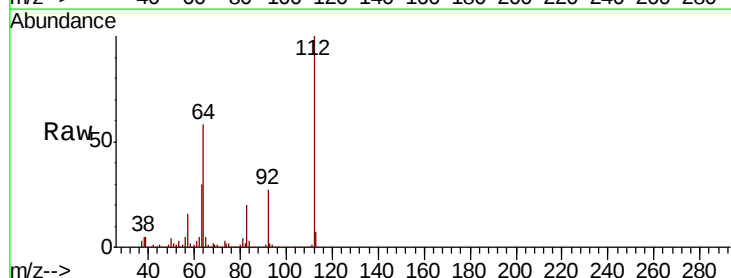
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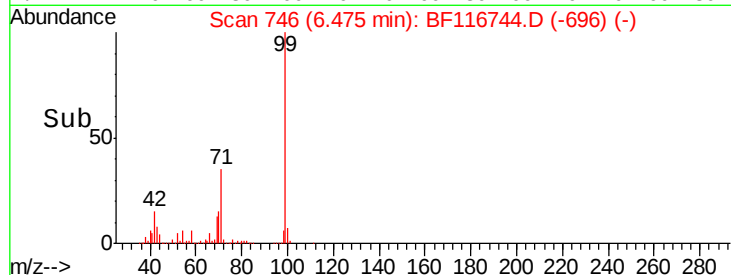
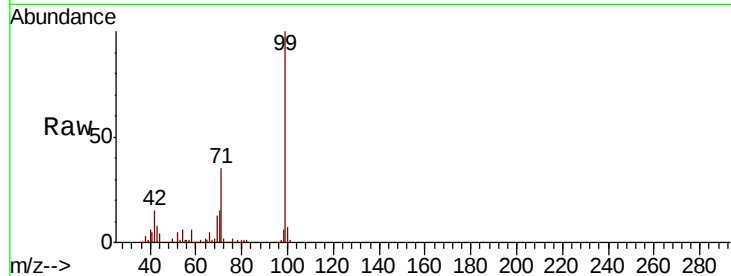
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#5
 2-Fluorophenol
 Concen: 91.319 ng
 RT: 5.46 min Scan# 574
 Delta R.T. 0.00 min
 Lab File: BF116744.D
 Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.3	47.1	70.7
63	29.5	24.9	37.3





#7

Phenol-d6

Concen: 94.098 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	99	100	925893		
42	42	15.3		13.7	20.5
71	71	35.2		30.8	46.2

Instrument :

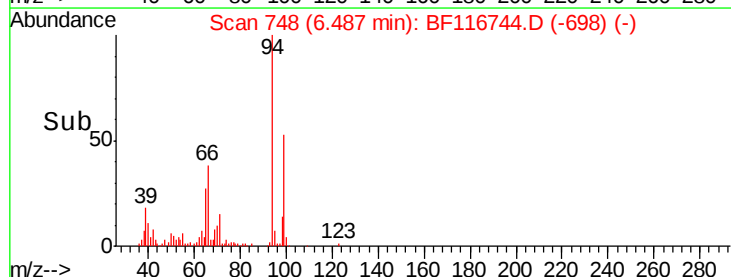
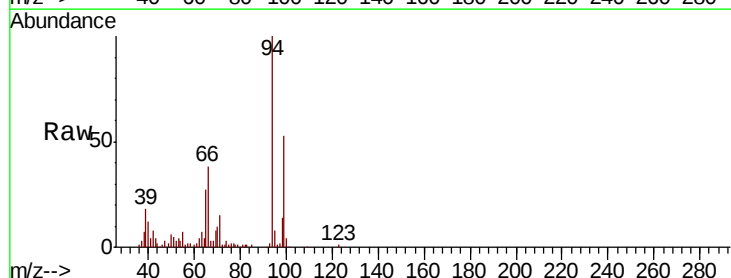
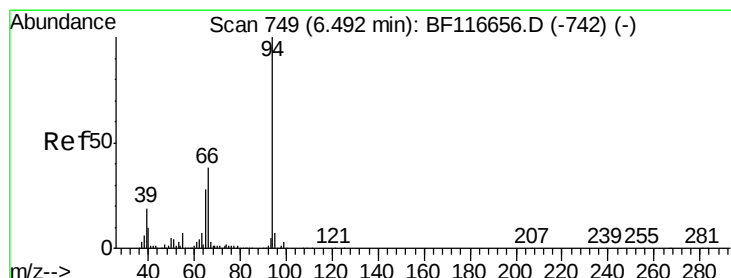
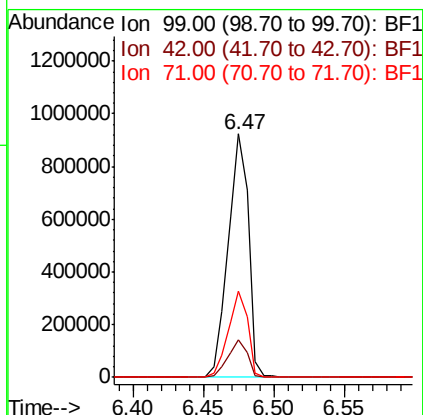
BNA_F

ClientSampleId :

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#10

Phenol

Concen: 6.303 ng

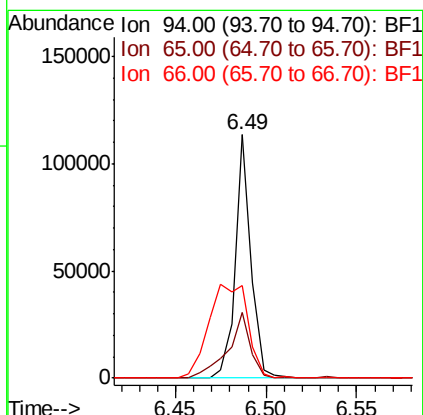
RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	94	100	68672		
65	65	27.0		10.8	50.8
66	66	38.0		21.1	61.1





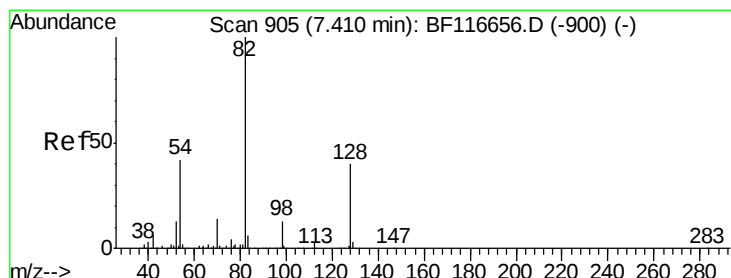
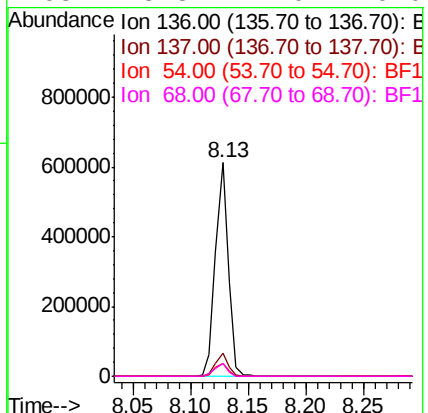
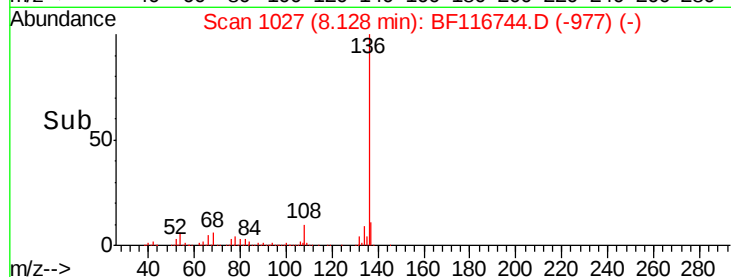
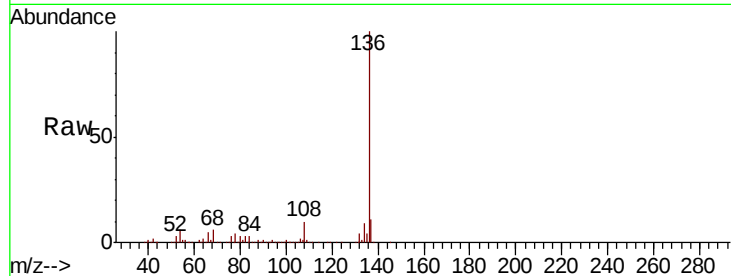
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Instrument :
BNA_F
ClientSampleId :
T16-17-B1-B4-(0-2.25)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		476316		
137	10.9		8.9	13.3	
54	6.3		4.8	7.2	
68	5.8		4.0	6.0	

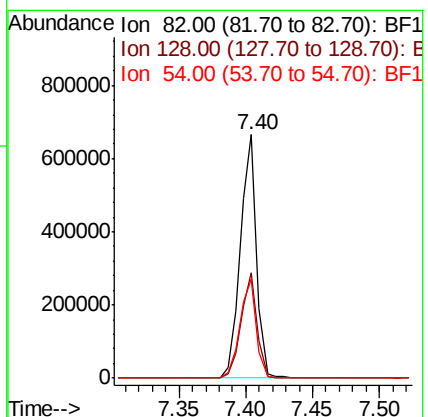
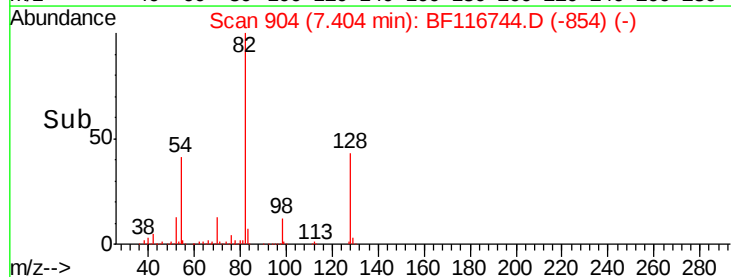
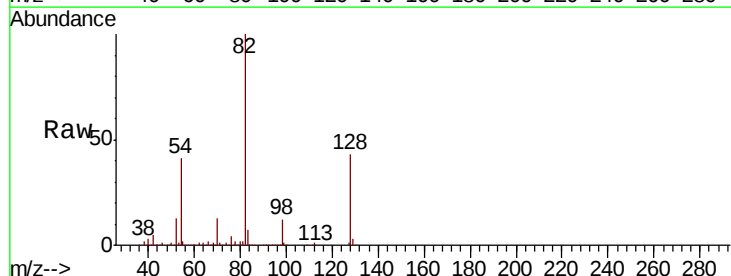
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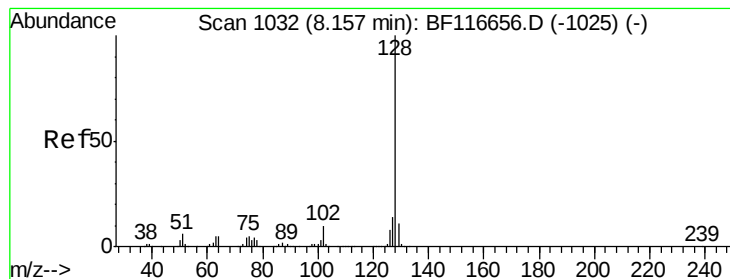
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#23
Nitrobenzene-d5
Concen: 67.400 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		562359		
128	43.2		32.8	49.2	
54	40.6		36.9	55.3	





#31

Naphthalene

Concen: 5.589 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Instrument :

BNA_F

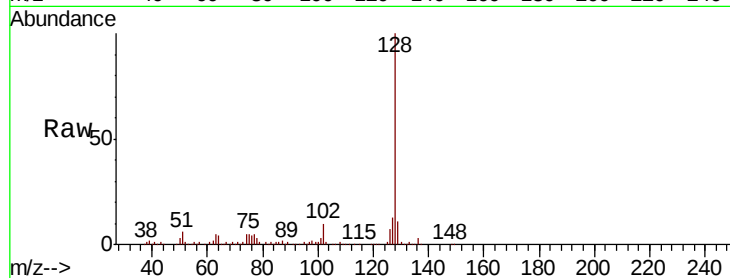
ClientSampleId :

T16-17-B1-B4-(0-2.25)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		126581		
129	11.1	8.6	13.0		
127	12.5	10.4	15.6		

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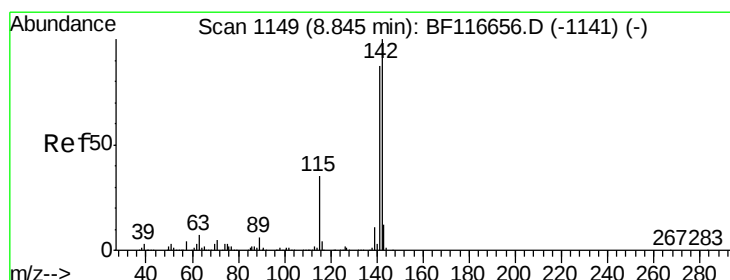
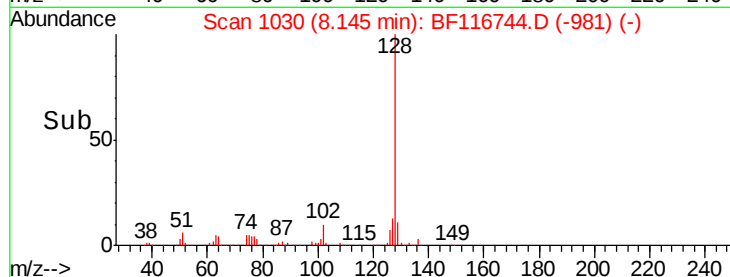
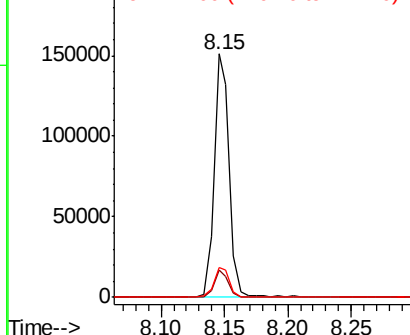


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 3.850 ng

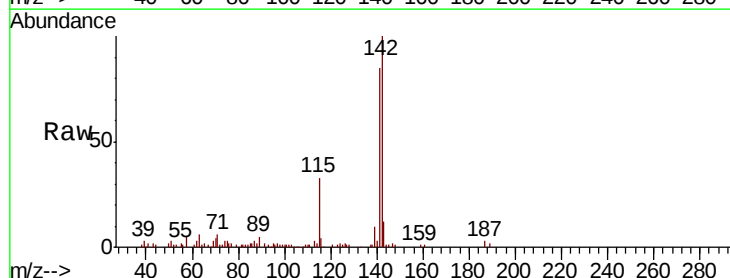
RT: 8.84 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
142	100		58020		
141	85.3	72.6	109.0		
115	33.2	29.8	44.6		

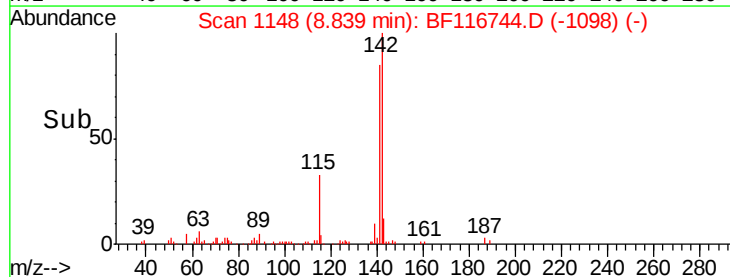
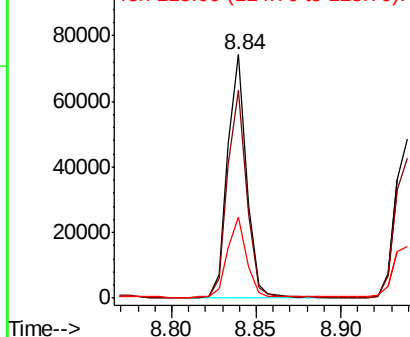


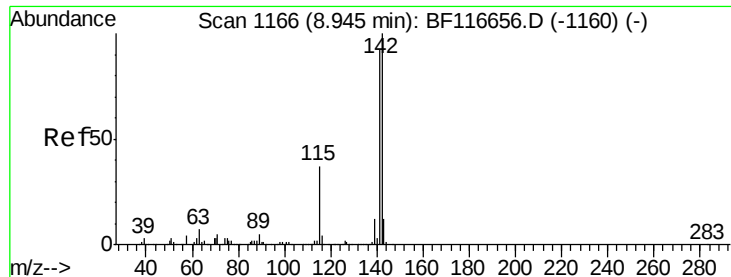
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





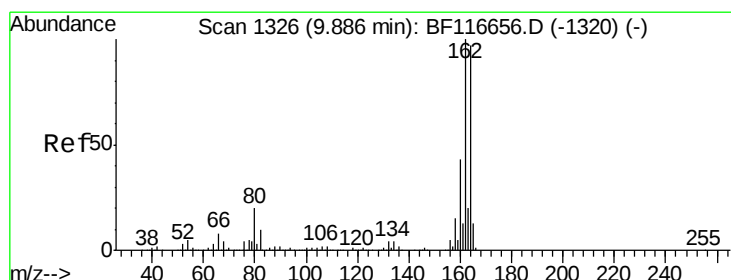
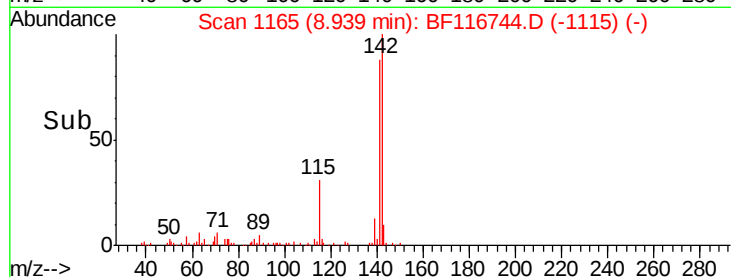
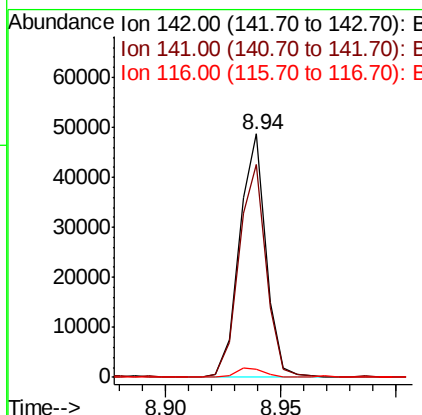
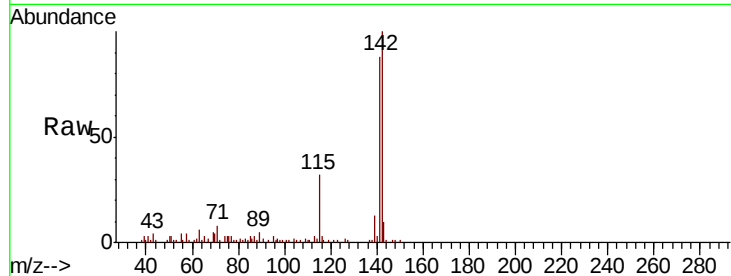
#38
1-Methylnaphthalene
Concen: 2.742 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Instrument :
BNA_F
ClientSampleId :
T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.6	73.9	110.9
116	3.2	3.0	4.6

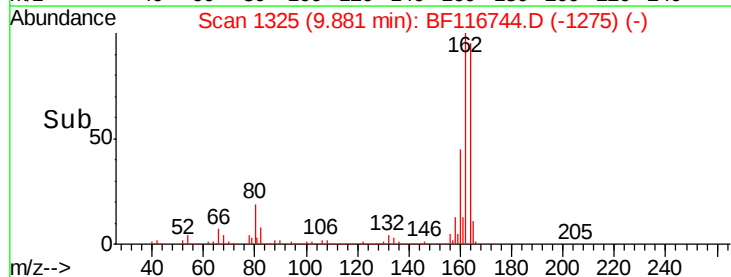
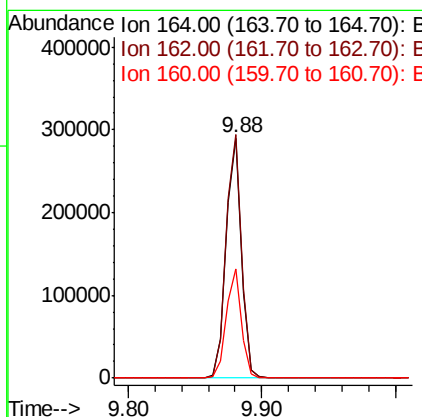
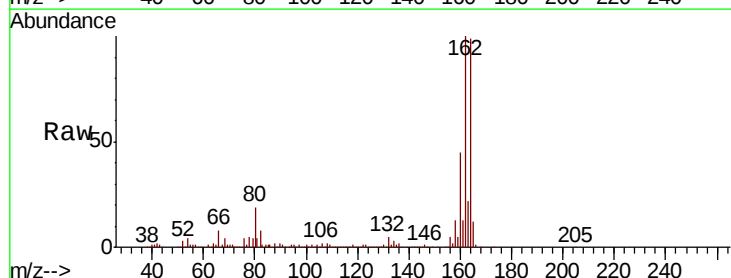
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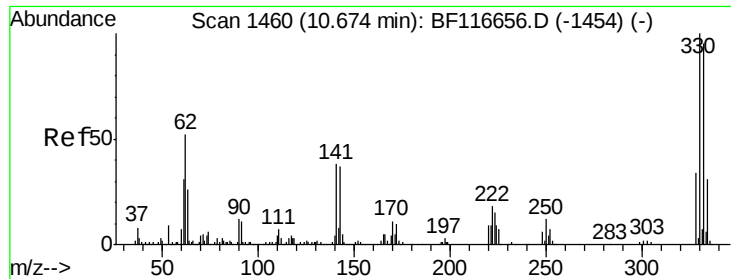
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.4	122.0
160	45.2	35.4	53.2





#42

2,4,6-Tribromophenol

Concen: 86.893 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Instrument :

BNA_F

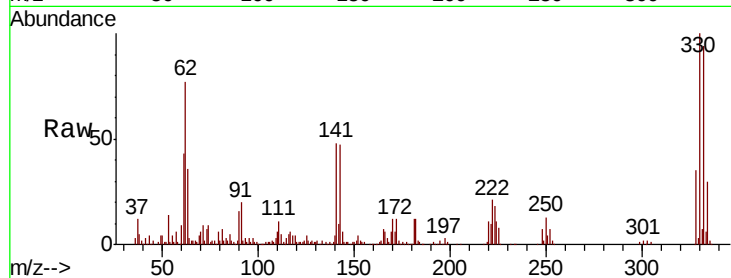
ClientSampleId :

T16-17-B1-B4-(0-2.25)

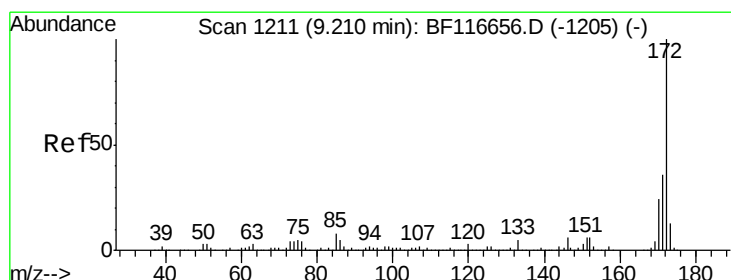
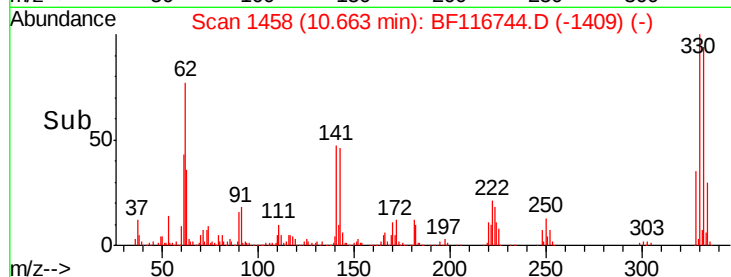
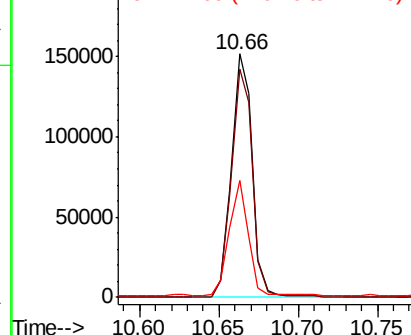
Tot Ion:	330	Resp:	137769
Ion Ratio	Lower	Upper	
330	100		
332	95.3	76.9	115.3
141	42.9	31.4	47.2

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 62.953 ng

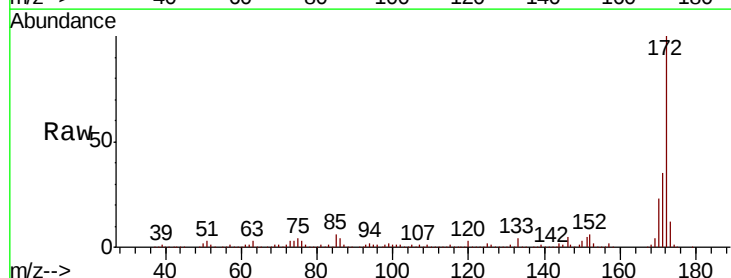
RT: 9.20 min Scan# 1210

Delta R.T. -0.00 min

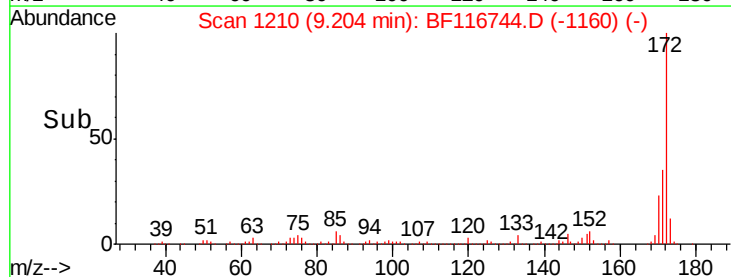
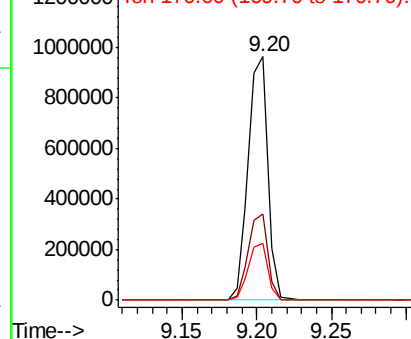
Lab File: BF116744.D

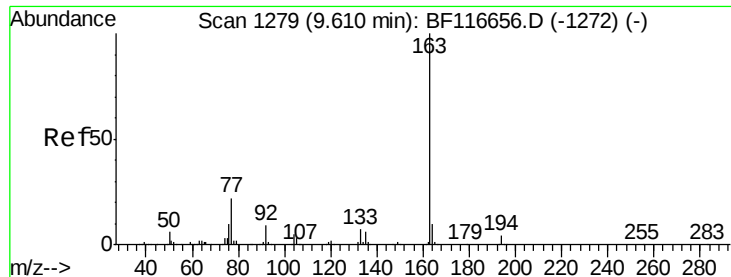
Acq: 1 Sep 2019 15:59

Tgt Ion:	172	Resp:	885074
Ion Ratio	Lower	Upper	
172	100		
171	35.3	27.8	41.6
170	23.4	18.9	28.3



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





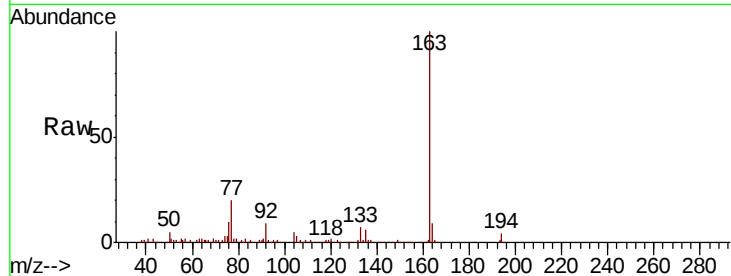
#50
Dimethylphthalate
Concen: 8.246 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Instrument :
BNA_F
ClientSampleId :
T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.0	2.8	4.2	
164	9.4	8.6	12.8	

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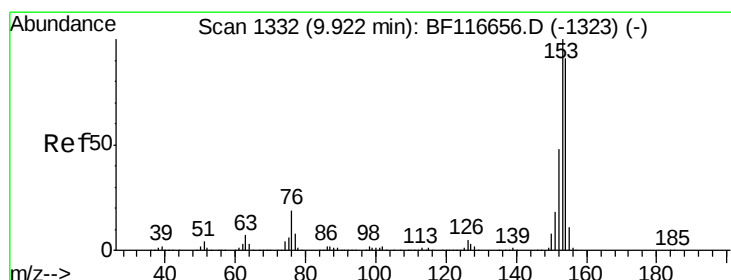
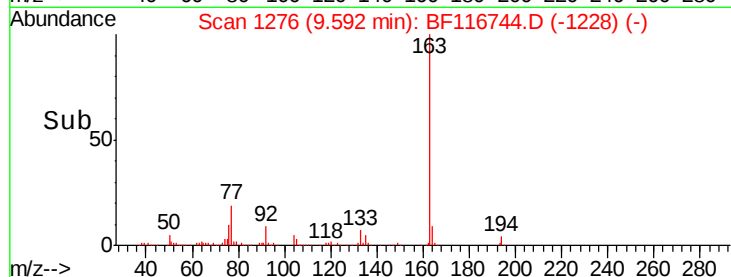
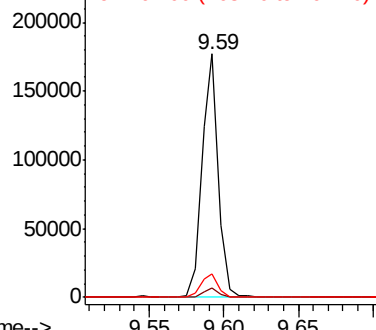


Abundance

Ion 163.00 (162.70 to 163.70): E

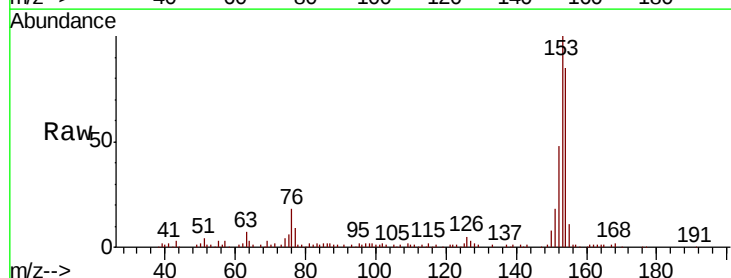
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 5.037 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	117.0	89.5	134.3	
152	56.4	41.9	62.9	

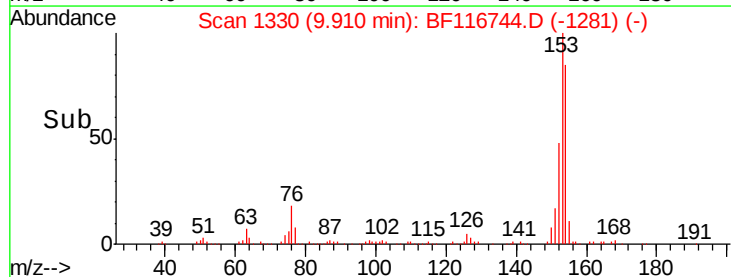
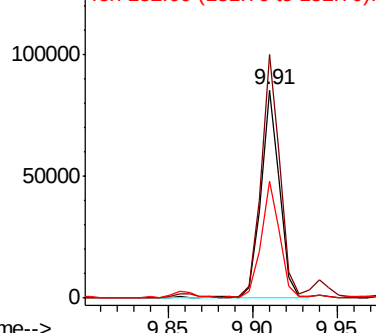


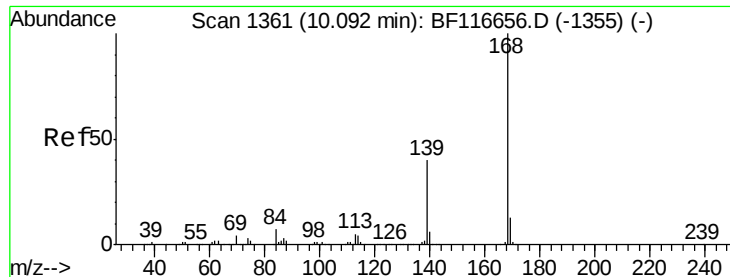
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#55

Dibenzofuran

Concen: 3.142 ng

RT: 10.08 min Scan# 1359

Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Instrument :

BNA_F

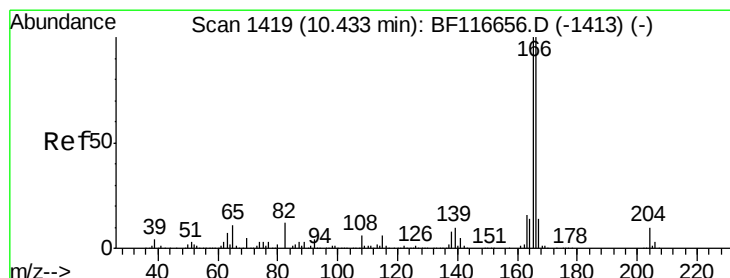
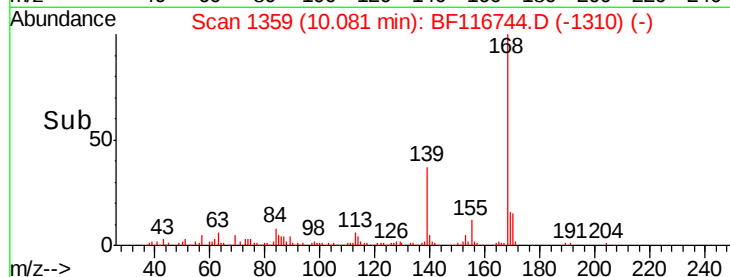
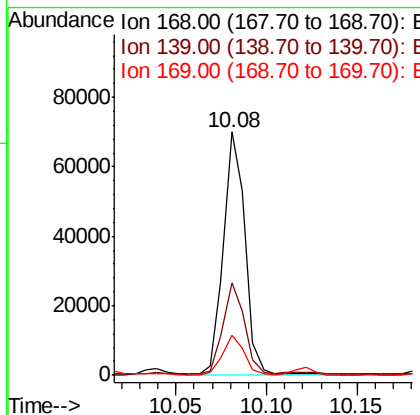
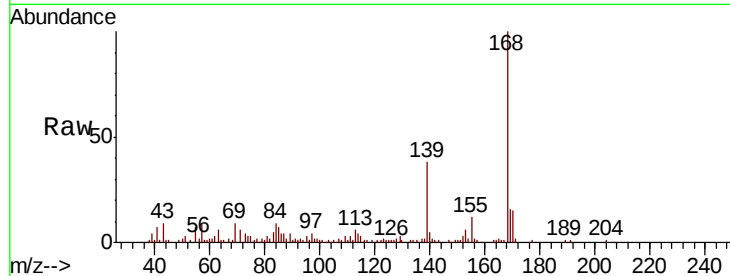
ClientSampleId :

T16-17-B1-B4-(0-2.25)

Tot Ion:	168	Resp:	58636
Ion Ratio	Lower	Upper	
168	100		
139	38.1	31.5	47.3
169	16.4	10.3	15.5#

Manual Integrations
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#58

Fluorene

Concen: 4.385 ng

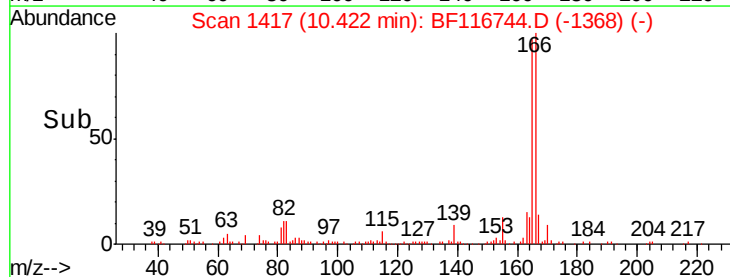
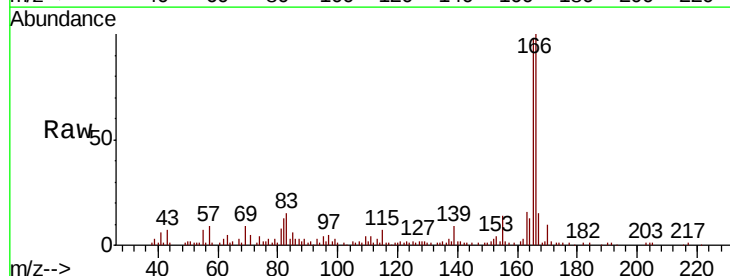
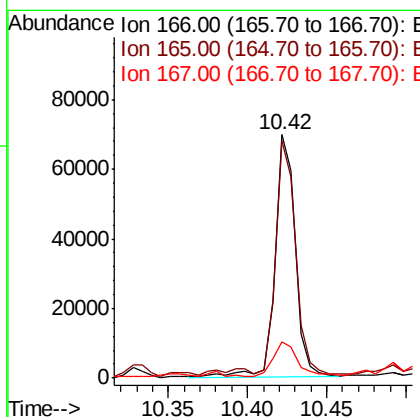
RT: 10.42 min Scan# 1417

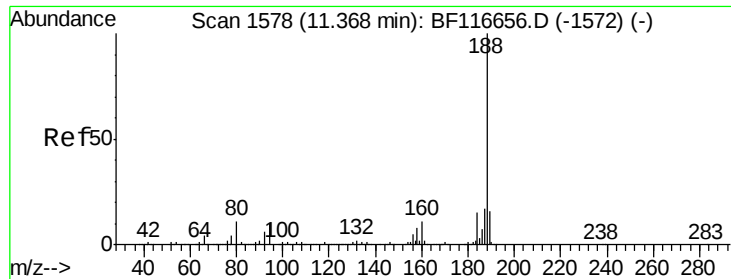
Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Tgt Ion:	166	Resp:	62354
Ion Ratio	Lower	Upper	
166	100		
165	97.6	78.8	118.2
167	15.1	10.0	15.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Instrument :

BNA_F

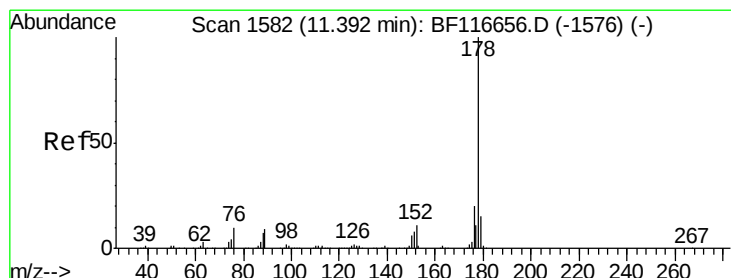
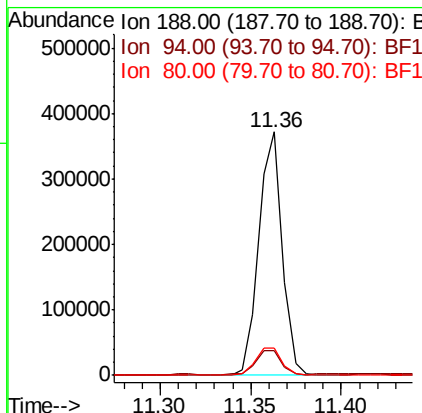
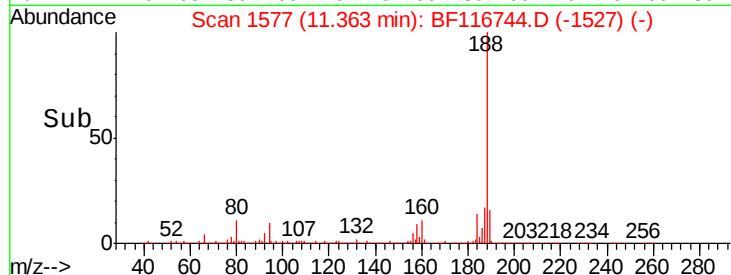
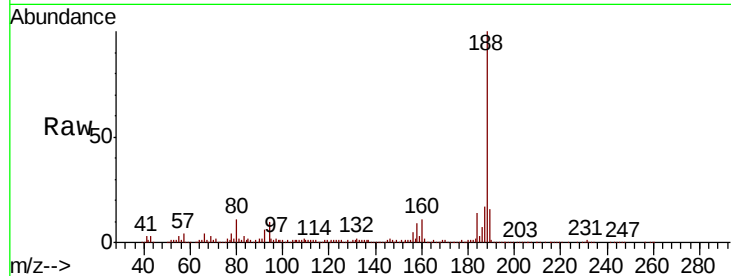
ClientSampleId :

T16-17-B1-B4-(0-2.25)

Tot Ion:	188	Resp:	334587
Ion Ratio	Lower	Upper	
188	100		
94	10.3	7.3	10.9
80	11.5	8.4	12.6

Manual Integrations
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#71

Phenanthrene

Concen: 35.550 ng

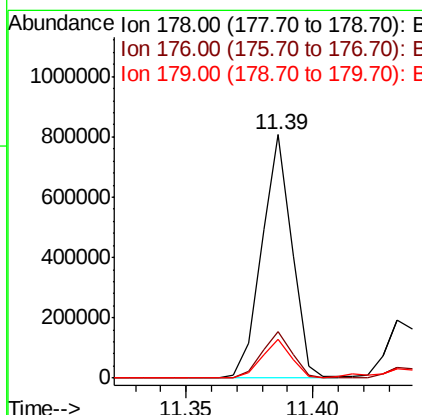
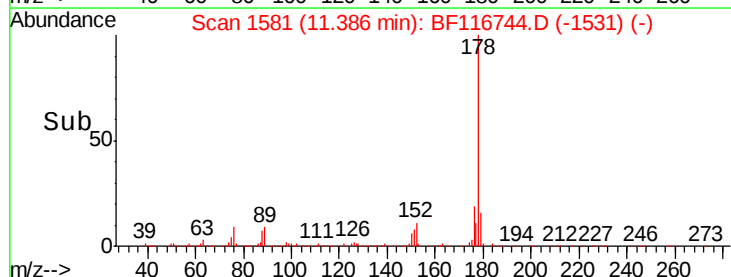
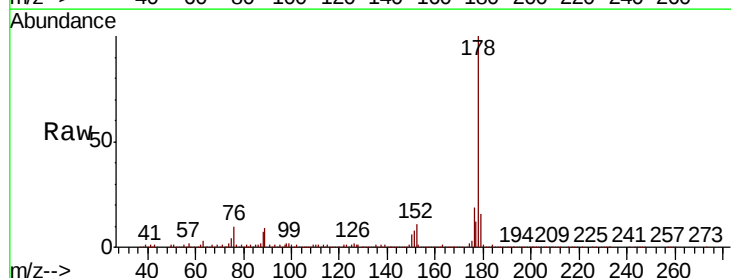
RT: 11.39 min Scan# 1581

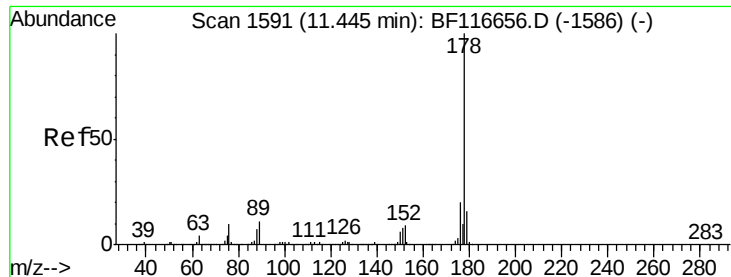
Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Tgt Ion:	178	Resp:	662134
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.4	23.0
179	15.7	12.2	18.2





#72

Anthracene

Concen: 8.703 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Instrument :

BNA_F

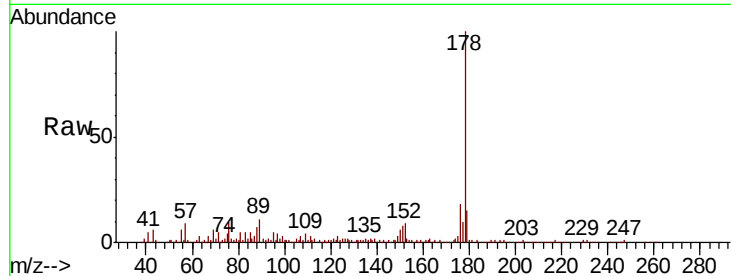
ClientSampleId :

T16-17-B1-B4-(0-2.25)

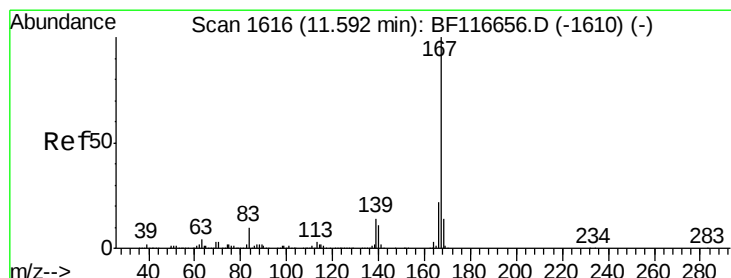
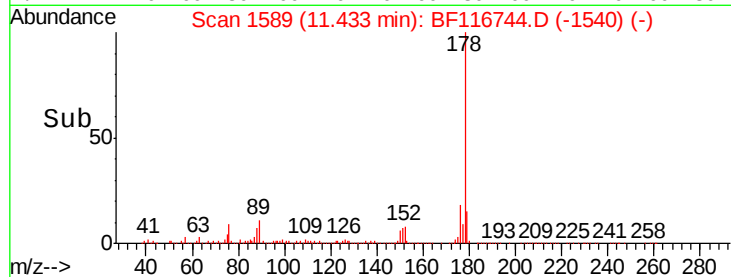
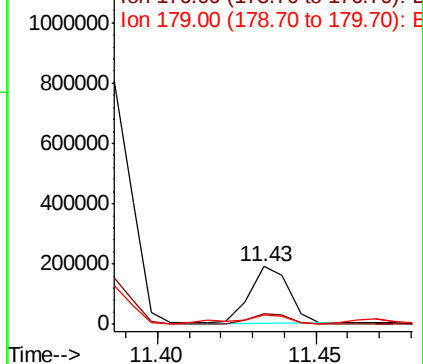
Tot Ion:	178	Resp:	163164
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.4	23.0
179	15.2	12.5	18.7

Manual Integrations
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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: 4.432 ng

RT: 11.59 min Scan# 1615

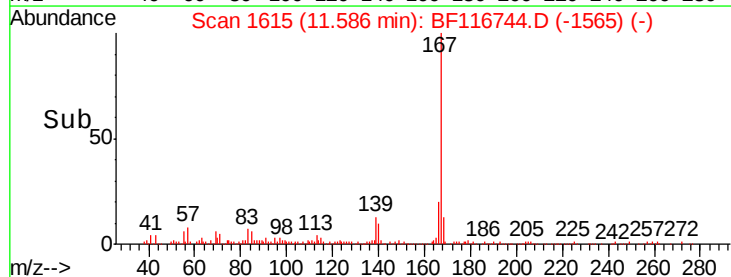
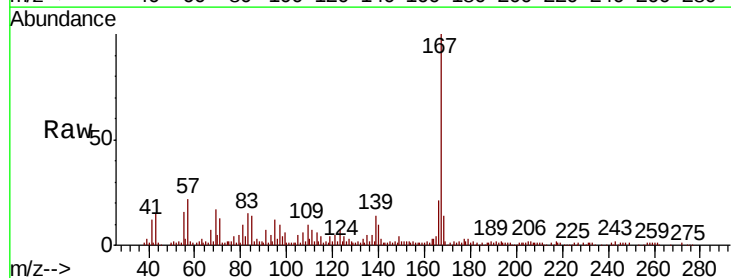
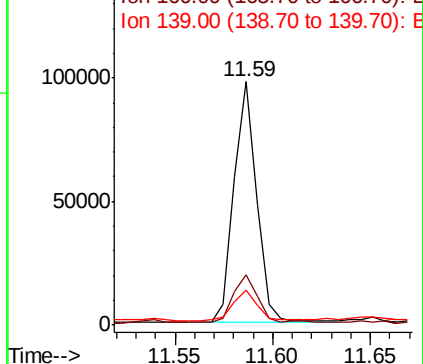
Delta R.T. -0.01 min

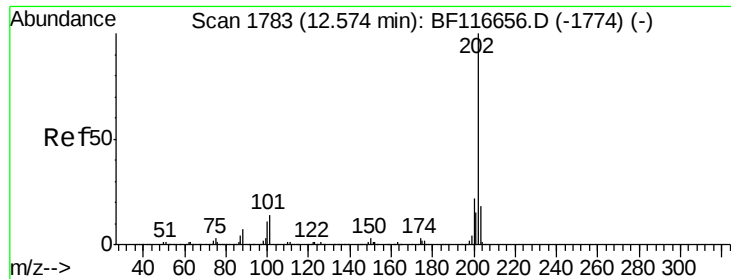
Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Tgt Ion:	167	Resp:	79149
Ion Ratio	Lower	Upper	
167	100		
166	20.5	17.8	26.6
139	14.5	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: 45.540 ng

RT: 12.57 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Instrument :

BNA_F

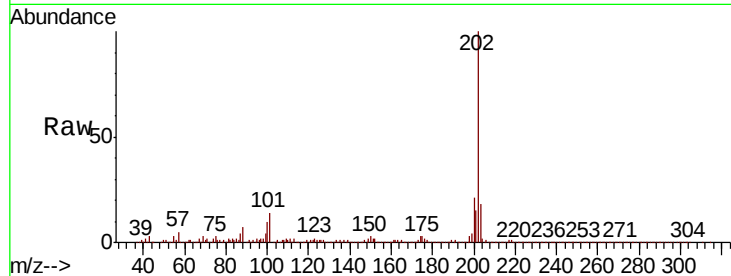
ClientSampleId :

T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Resp	Lower	Upper
202	100	833561		
101	14.0	0.0	31.3	
203	18.0	0.0	37.6	

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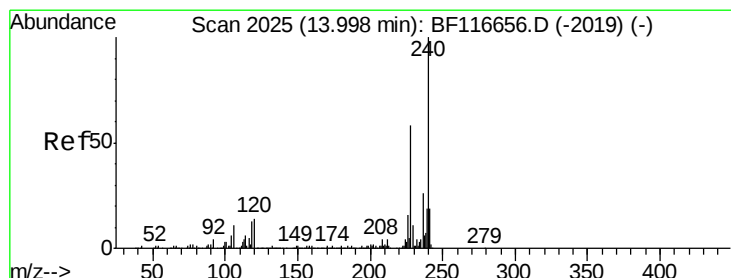
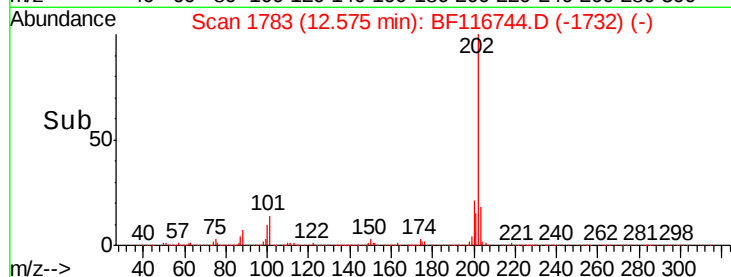
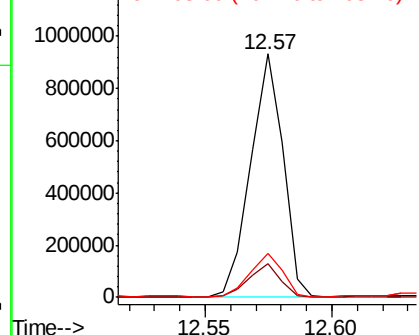


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

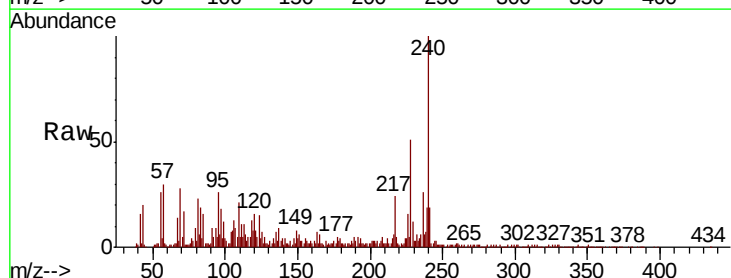
RT: 14.00 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	219241		
120	15.6	9.1	13.7#	
236	25.8	21.1	31.7	

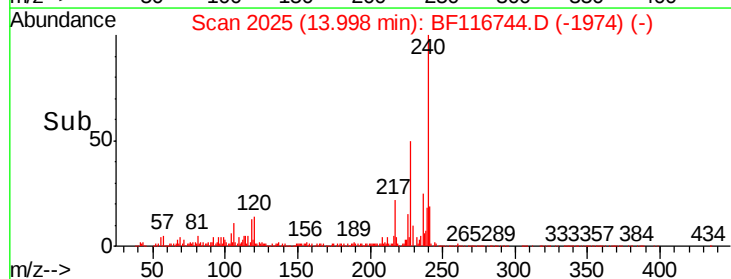
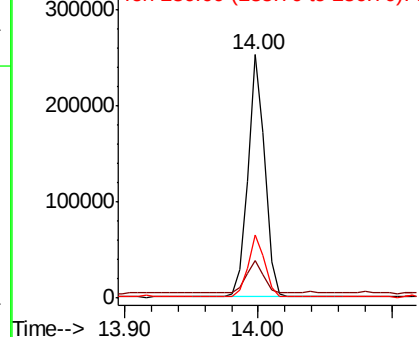


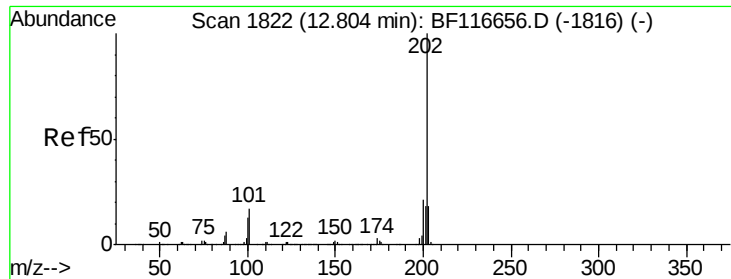
Abundance

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





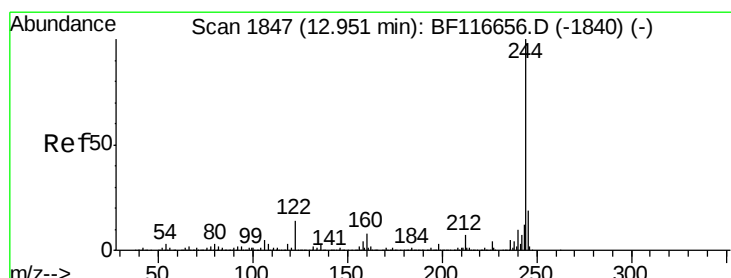
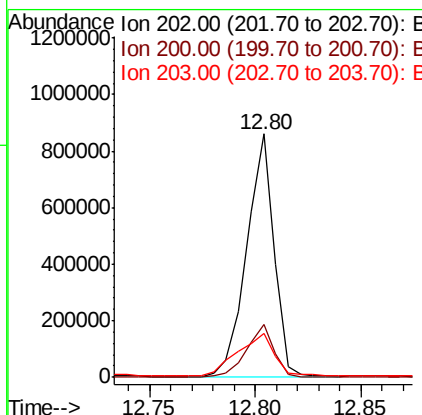
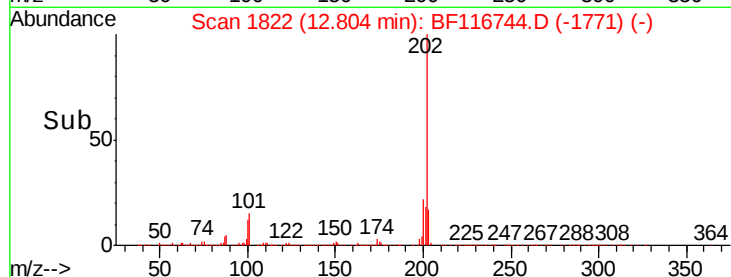
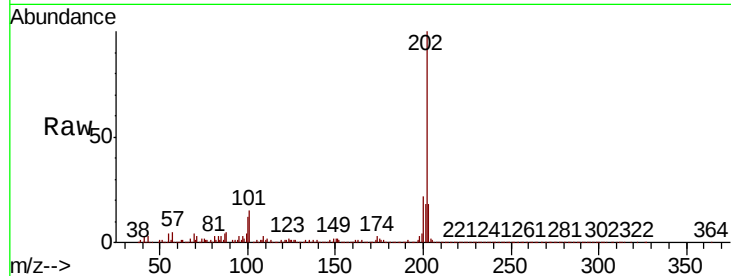
#78
Pvrene
Concen: 39.628 ng
RT: 12.80 min Scan# 1822
Delta R.T. 0.00 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Instrument :
BNA_F
ClientSampleId :
T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.6	16.5	24.7
203	17.9	13.7	20.5

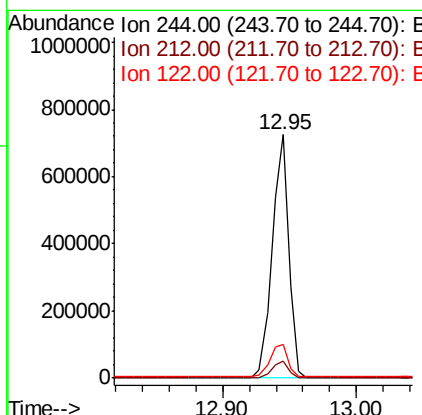
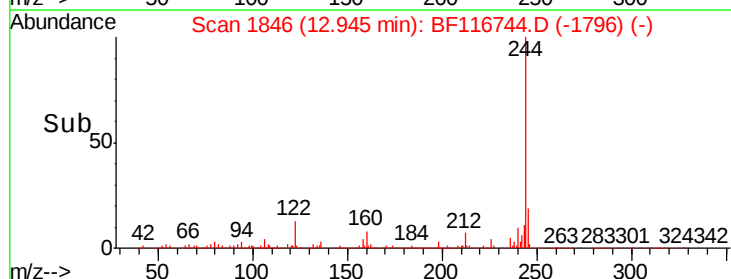
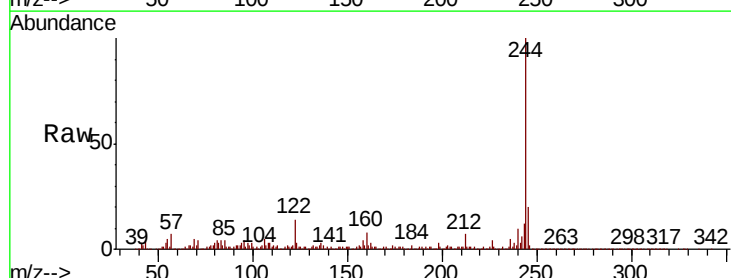
Manual Integrations
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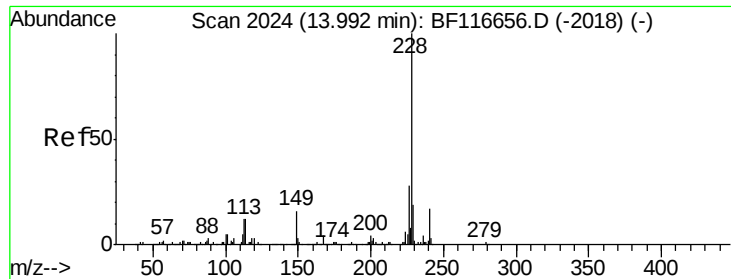
mohammad
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#79
Terphenyl-d14
Concen: 53.217 ng
RT: 12.95 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.1	9.1
122	13.9	10.2	15.4





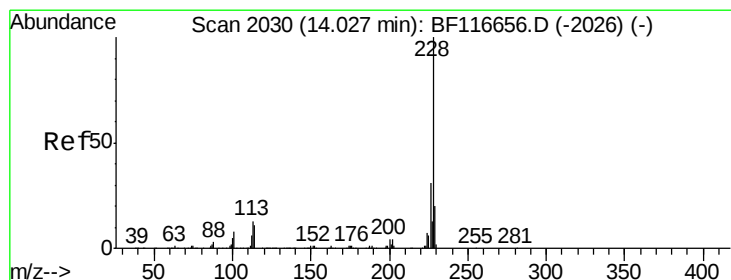
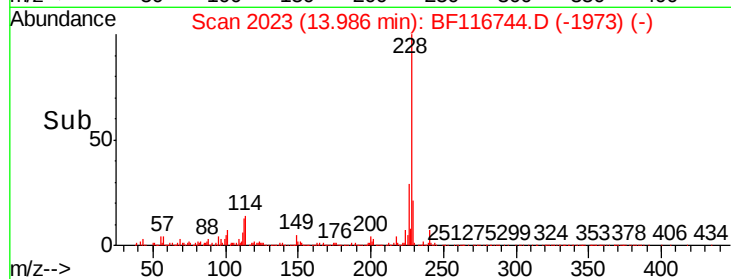
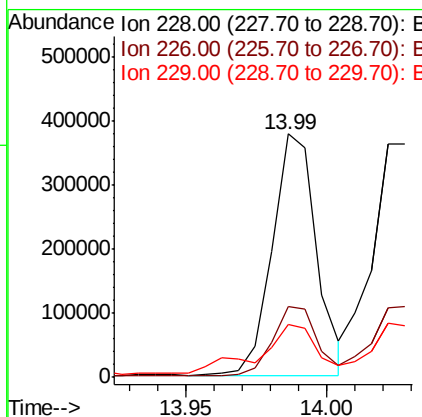
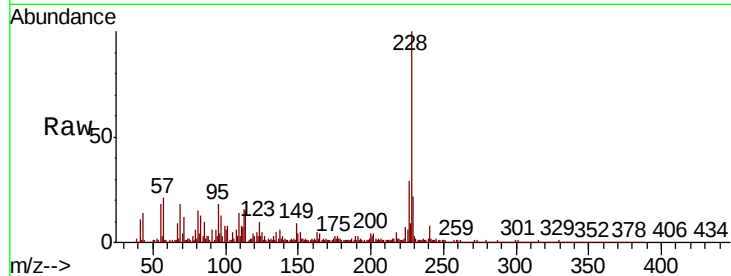
#81
Benzo(a)anthracene
Concen: 29.556 ng
RT: 13.99 min Scan# 2023
Delta R.T. -0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Instrument :
BNA_F
ClientSampleId :
T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.0	33.0
229	21.6	16.4	24.6

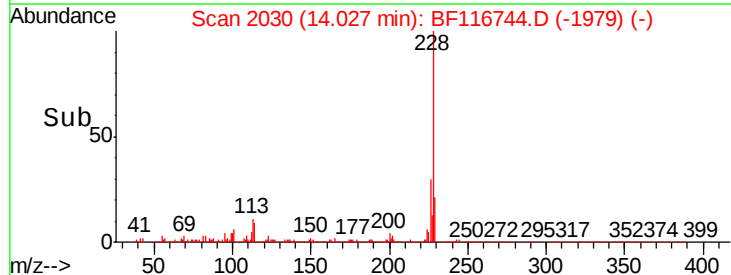
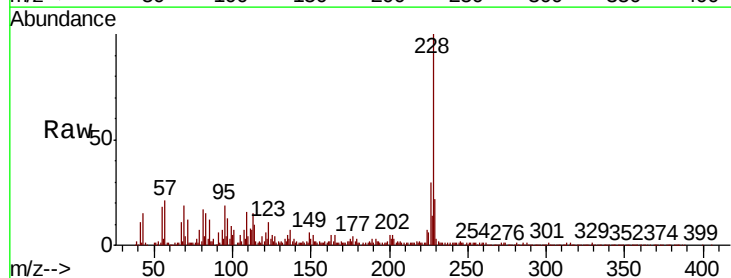
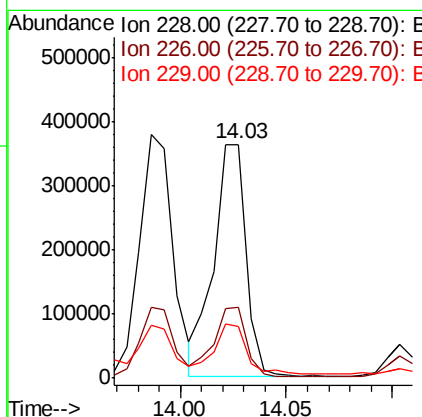
Manual Integrations
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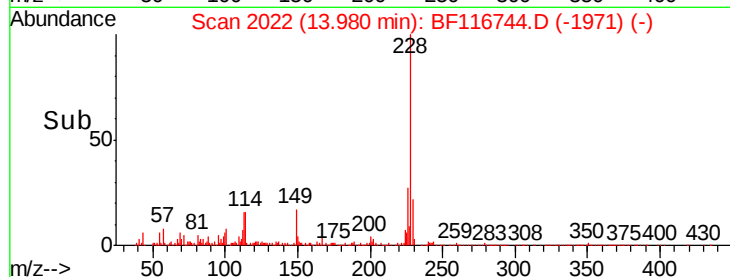
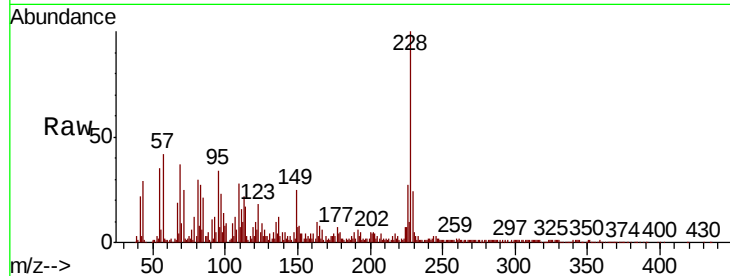
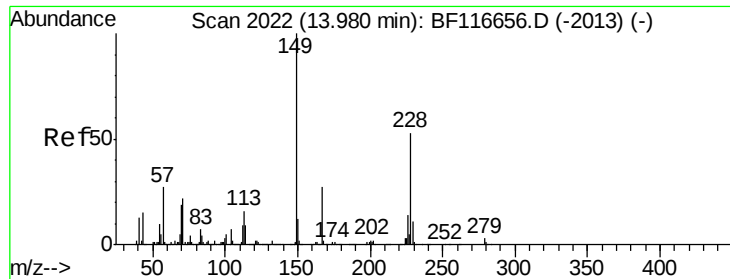
mohammad
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#83
Chrysene
Concen: 26.941 ng
RT: 14.03 min Scan# 2030
Delta R.T. 0.00 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.0	36.0
229	22.3	15.4	23.0





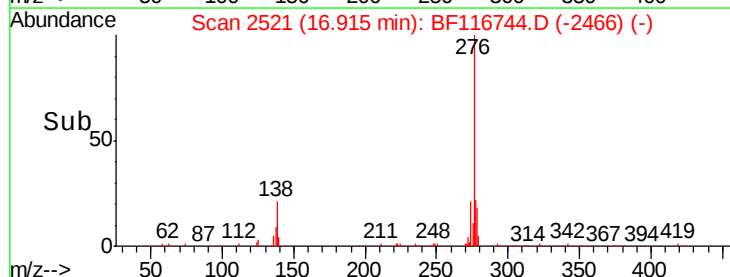
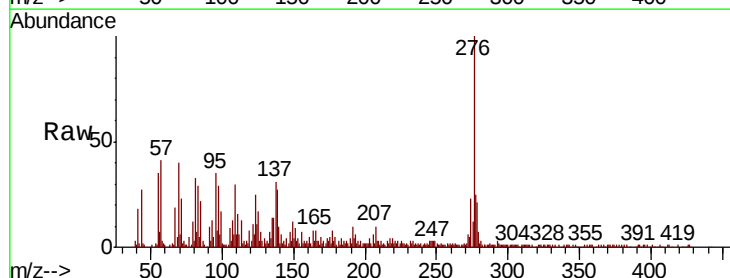
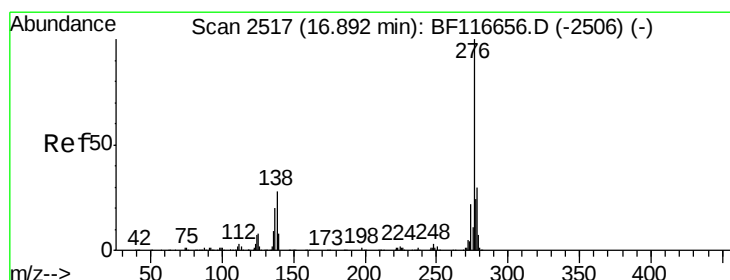
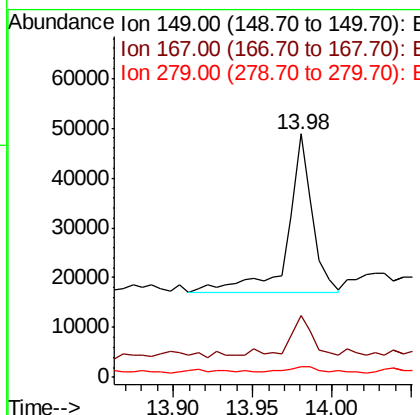
#84
Bis(2-ethylhexyl)phthalate
Concen: 2.847 ng
RT: 13.98 min Scan# 2022
Delta R.T. 0.00 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Instrument :
BNA_F
ClientSampleId :
T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Lower	Upper
149	100		
167	25.5	21.0	31.4
279	4.1	2.8	4.2

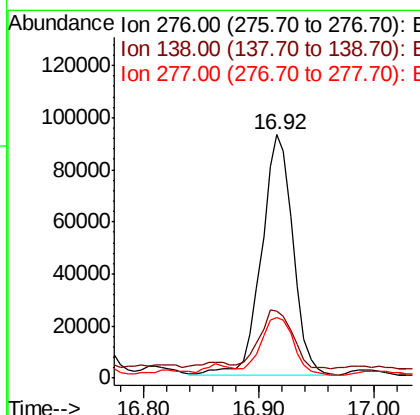
Manual Integrations
APPROVED

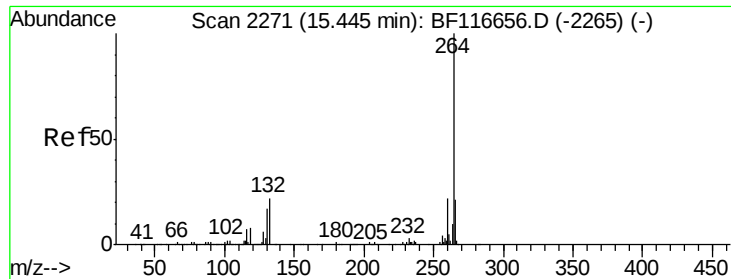
mohammad
9/5/2019 9:54:26 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 15.139 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.02 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.9	19.4	29.2
277	25.6	20.5	30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2275

Delta R.T. 0.02 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Instrument :

BNA_F

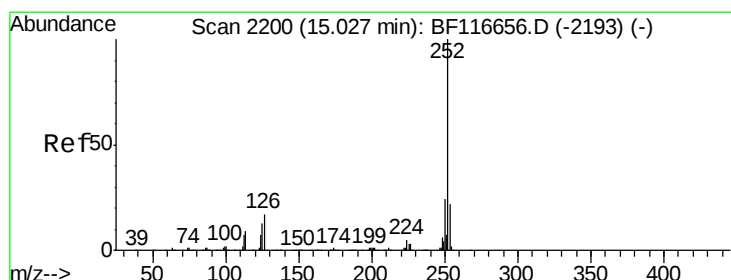
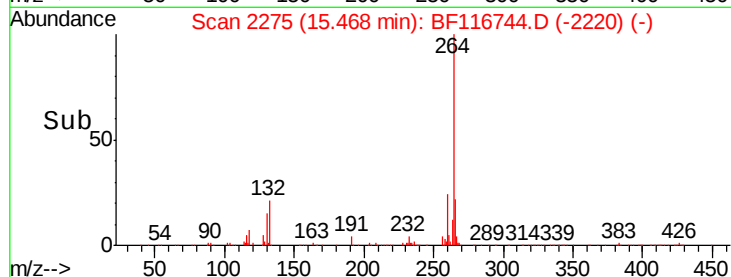
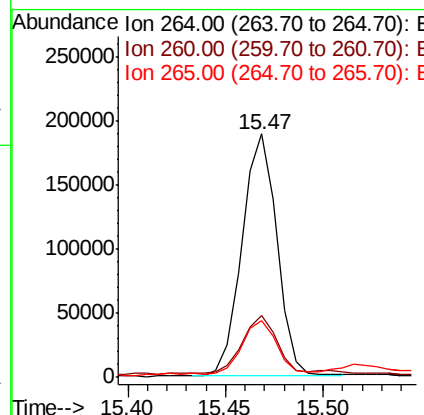
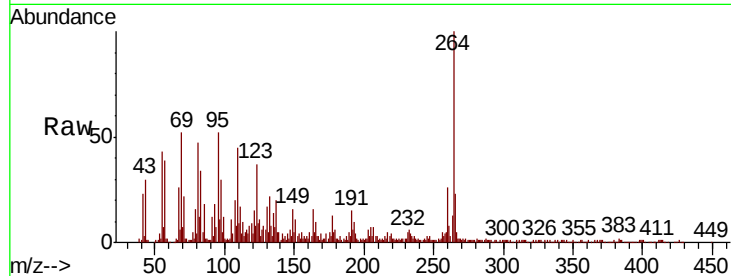
ClientSampleId :

T16-17-B1-B4-(0-2.25)

Tot Ion:	264	Resp:	234136
Ion Ratio	Lower	Upper	
264	100		
260	25.5	18.3	27.5
265	23.2	16.5	24.7

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#88

Benzo(b)fluoranthene

Concen: 31.575 ng m

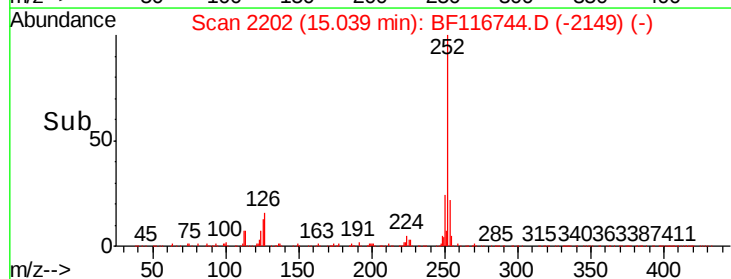
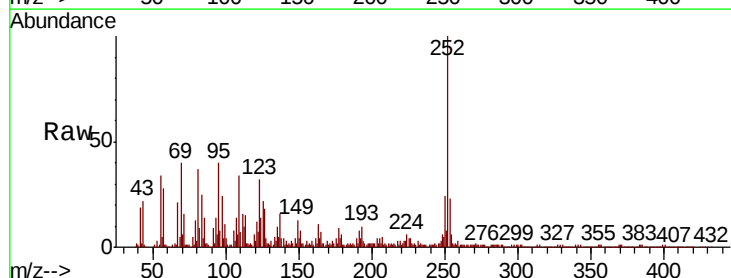
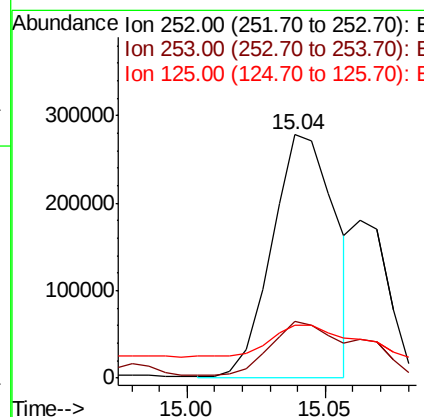
RT: 15.04 min Scan# 2202

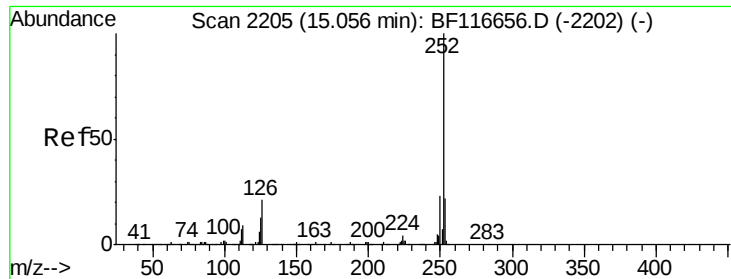
Delta R.T. 0.01 min

Lab File: BF116744.D

Acq: 1 Sep 2019 15:59

Tgt Ion:	252	Resp:	446964
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.7	26.5
125	22.0	8.2	12.2#





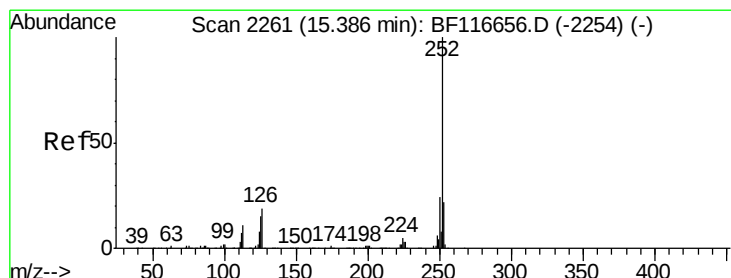
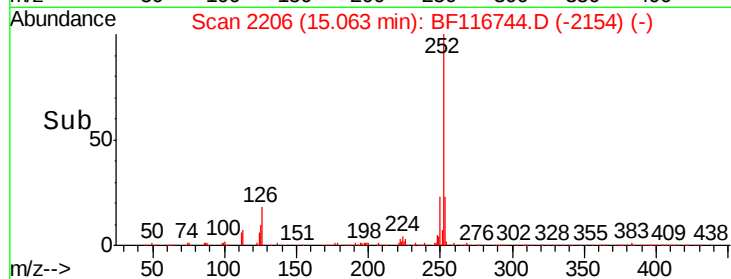
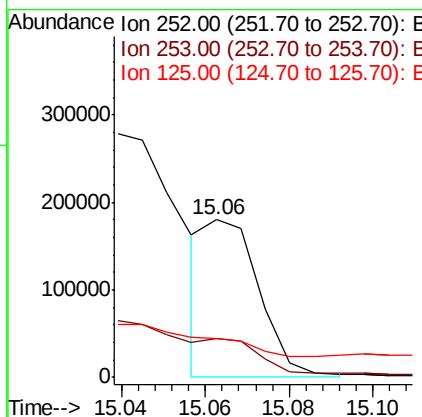
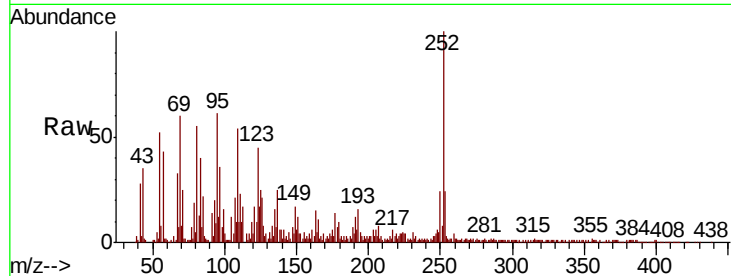
#89
Benzo(k)fluoranthene
Concen: 12.391 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Instrument :
BNA_F
ClientSampleId :
T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.7	26.5
125	25.0	8.6	13.0

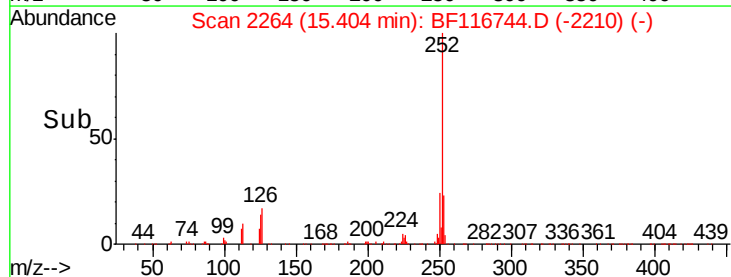
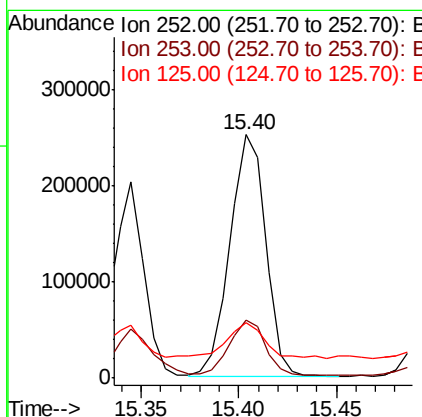
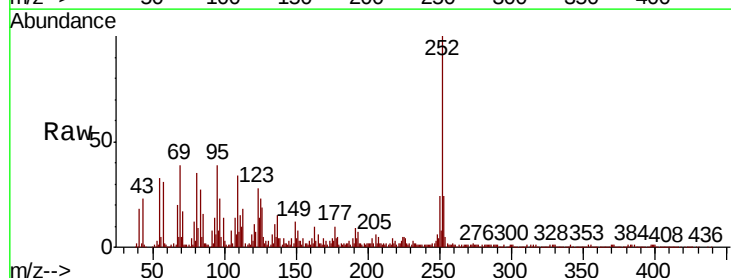
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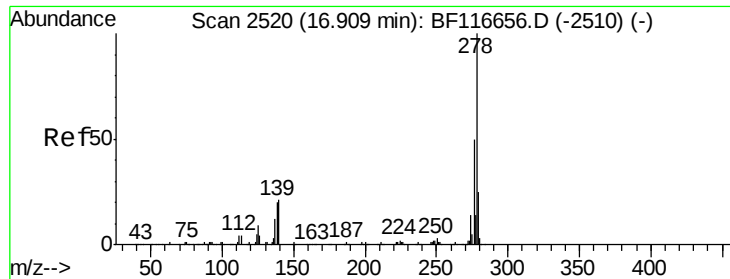
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#90
Benzo(a)pyrene
Concen: 26.007 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.02 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	22.8	9.8	14.8





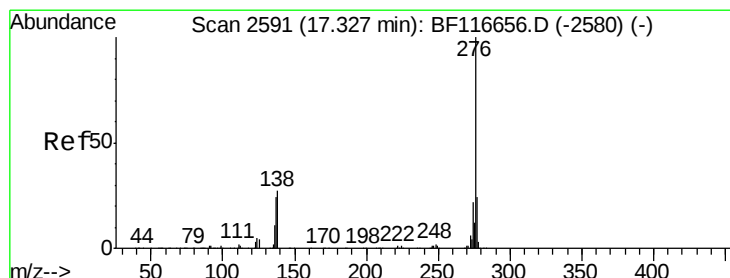
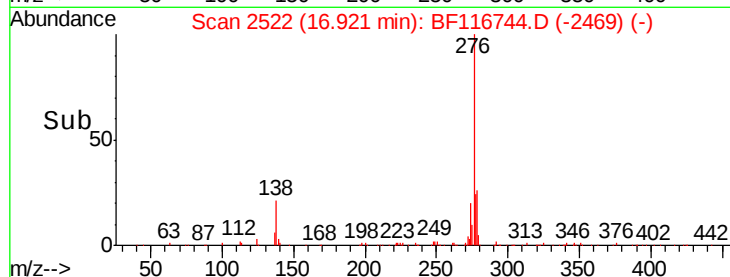
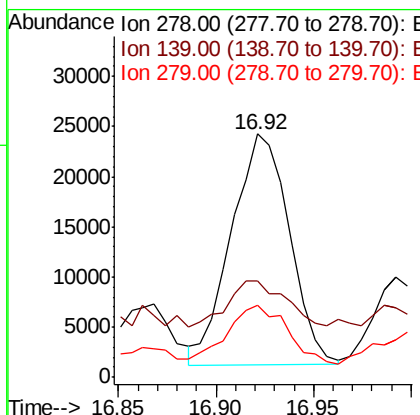
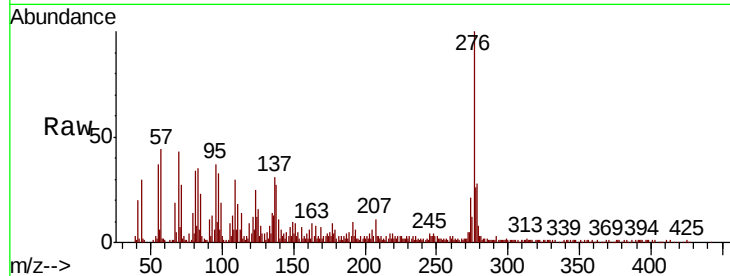
#91
Dibenzo(a,h)anthracene
Concen: 4.409 ng
RT: 16.92 min Scan# 2522
Delta R.T. 0.01 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Instrument :
BNA_F
ClientSampleId :
T16-17-B1-B4-(0-2.25)

Tot Ion	Ratio	Lower	Upper
278	100		
139	39.4	12.4	18.6#
279	29.7	18.2	27.4#

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#92
Benzo(g,h,i)perylene
Concen: 14.551 ng
RT: 17.35 min Scan# 2595
Delta R.T. 0.02 min
Lab File: BF116744.D
Acq: 1 Sep 2019 15:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.5	27.7
138	30.6	16.2	24.2#

