

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
 Data File : BF117001.D
 Acq On : 12 Sep 2019 19:23
 Operator : HP/JU
 Sample : K4850-03 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(7)

Manual Integrations
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mohammad
 9/16/2019 8:59:47 AM

Quant Time: Sep 13 08:25:11 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 12 08:24:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	75017	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	287217	20.00	ng	0.01
39) Acenaphthene-d10	9.86	164	175665	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	216332	20.00	ng	0.01
76) Chrysene-d12	13.99	240	156573	20.00	ng	0.02
87) Perylene-d12	15.44	264	153869	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	168749	36.44	ng	0.00
7) Phenol-d6	6.46	99	234397	38.55	ng	0.00
23) Nitrobenzene-d5	7.38	82	140775	27.98	ng	-0.01
42) 2,4,6-Tribromophenol	10.65	330	42762	36.41	ng	0.00
45) 2-Fluorobiphenyl	9.18	172	223160	21.43	ng	0.00
79) Terphenyl-d14	12.92	244	169687	20.05	ng	0.00
Target Compounds						
31) Naphthalene	8.16	128	8256133	604.515	ng	Qvalue # 94
37) 2-Methylnaphthalene	8.85	142	4166519	458.513	ng	96
38) 1-Methylnaphthalene	8.94	142	2667853	311.007	ng	98
46) 1,1'-Biphenyl	9.29	154	720274	54.035	ng	99
49) Acenaphthylene	9.72	152	554039	34.716	ng	# 93
50) Dimethylphthalate	9.57	163	52887	4.361	ng	# 64
52) Acenaphthene	9.89	154	227743	23.225	ng	# 92
55) Dibenzofuran	10.06	168	287942	20.830	ng	# 91
58) Fluorene	10.42	166	1612551m	153.096	ng	
71) Phenanthrene	11.40	178	4961032	411.963	ng	96
72) Anthracene	11.43	178	821071	67.732	ng	99
73) Carbazole	11.57	167	70839	6.135	ng	97
75) Fluoranthene	12.57	202	2007310	169.612	ng	97
78) Pyrene	12.81	202	3069948	220.569	ng	98
81) Benzo(a)anthracene	13.99	228	1246543	125.793	ng	98
83) Chrysene	14.02	228	1187134	116.281	ng	97
86) Indeno(1,2,3-cd)pyrene	16.87	276	242737	29.601	ng	97
88) Benzo(b)fluoranthene	15.03	252	762343m	81.949	ng	
89) Benzo(k)fluoranthene	15.04	252	288339m	33.994	ng	
90) Benzo(a)pyrene	15.39	252	651633	80.514	ng	99
91) Dibenzo(a,h)anthracene	16.88	278	88670	12.516	ng	99
92) Benzo(g,h,i)perylene	17.32	276	249854	34.582	ng	98

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

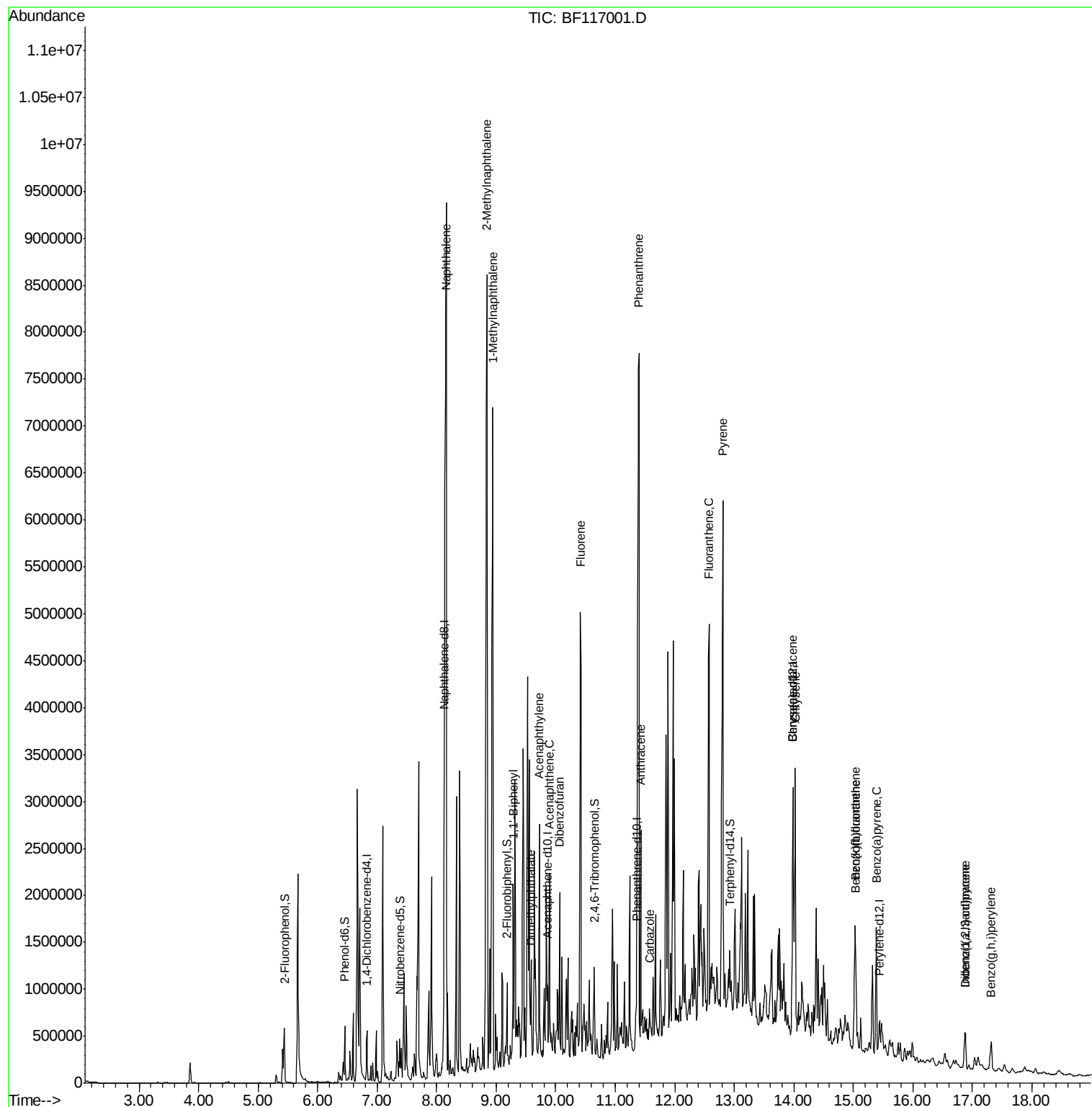
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117001.D
Acq On : 12 Sep 2019 19:23
Operator : HP/JU
Sample : K4850-03 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

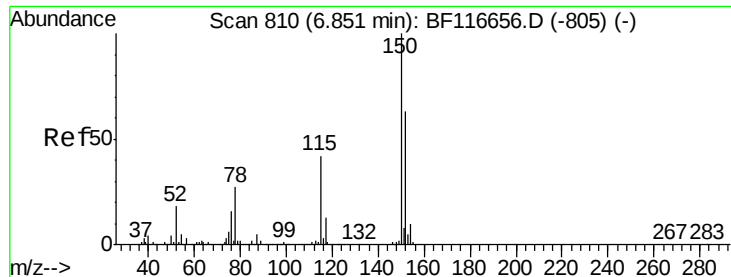
Instrument :
BNA_F
ClientSampleId :
AOC-7-(7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

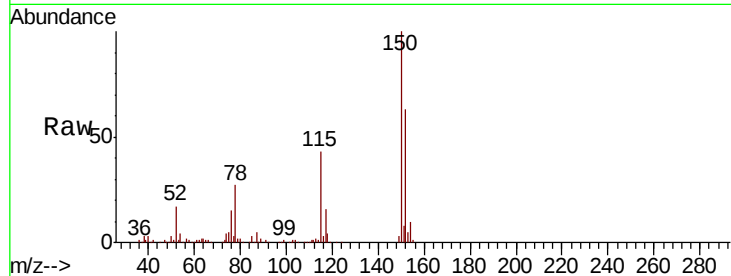
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. 0.00 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7-(7)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	126.2	189.2
115	67.9	50.2	75.2

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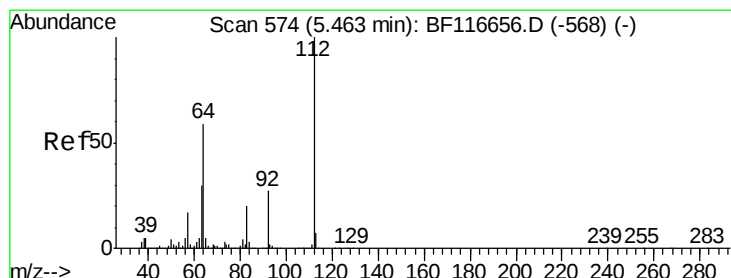
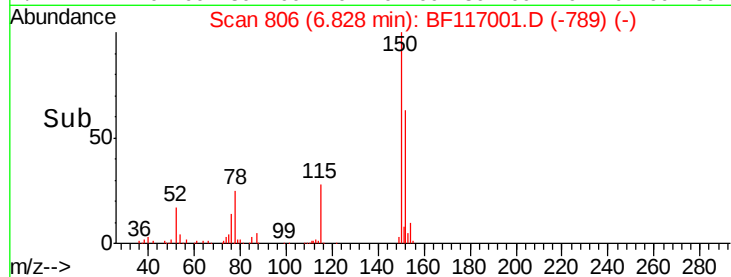
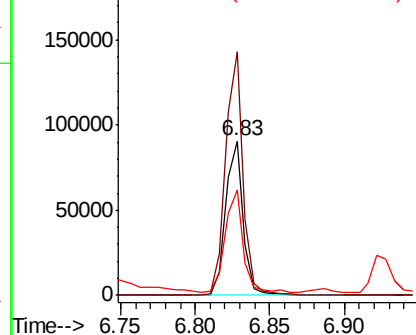


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

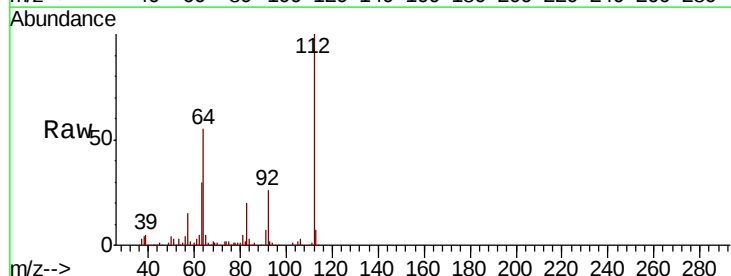
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 36.443 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	47.1	70.7
63	30.3	25.4	38.0

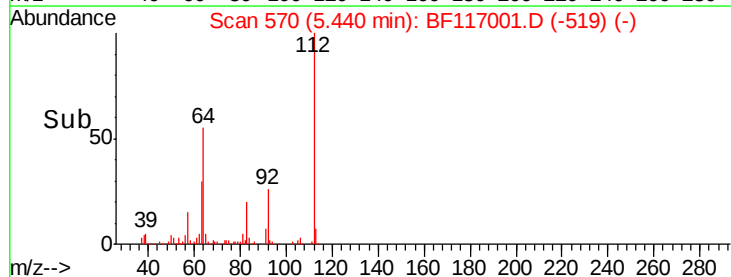
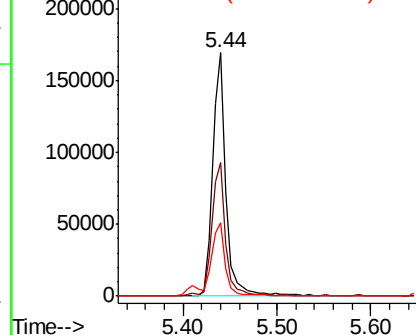


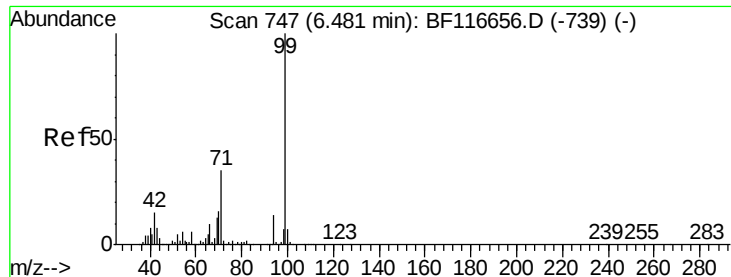
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 38.550 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF117001.D

Acq: 12 Sep 2019 19:23

Instrument :

BNA_F

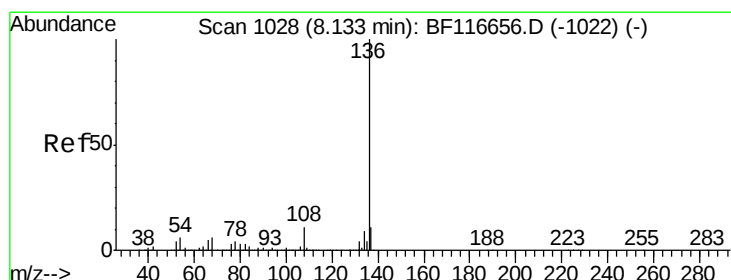
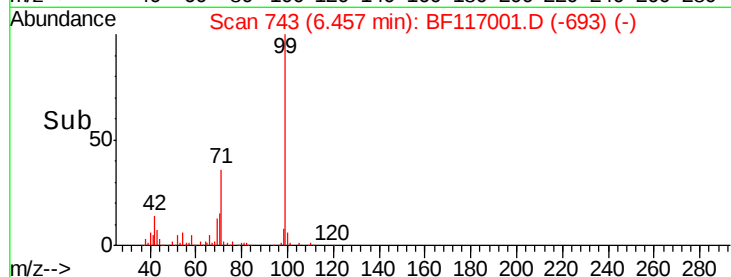
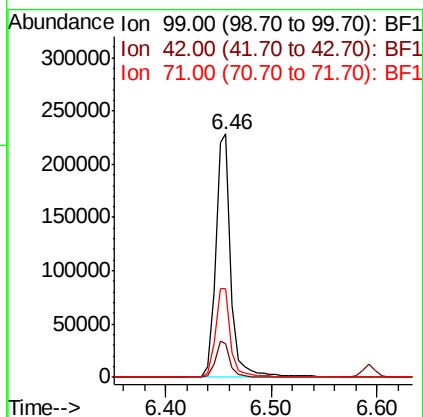
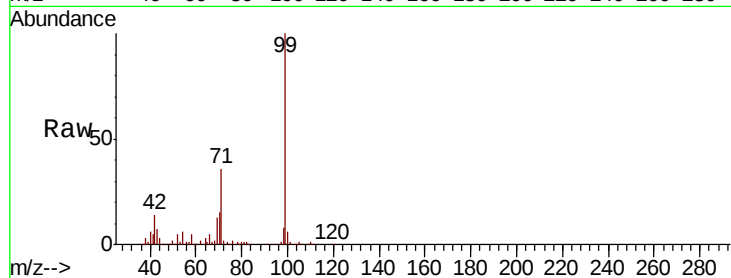
ClientSampleId :

AOC-7(7)

Tot Ion:	99	Resp:	234397
Ion Ratio	Lower	Upper	
99	100		
42	13.6	12.0	18.0
71	36.3	29.7	44.5

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#21

Naphthalene-d8

Concen: 20.000 ng

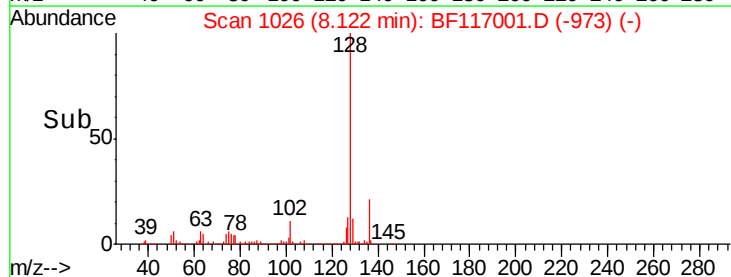
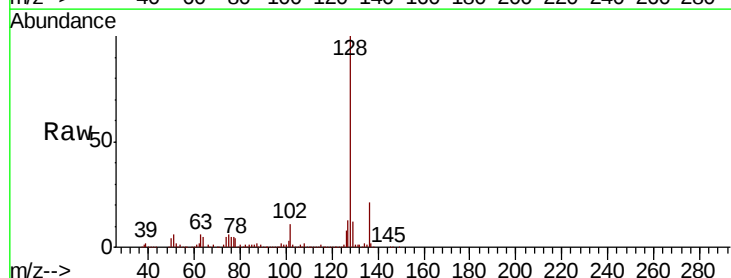
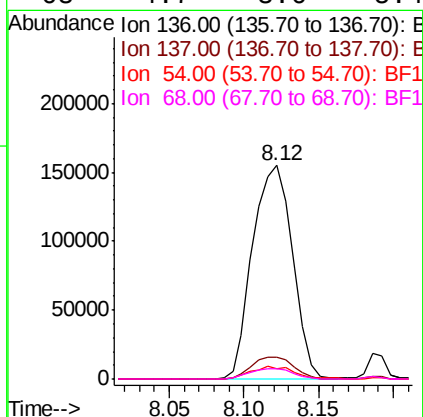
RT: 8.12 min Scan# 1026

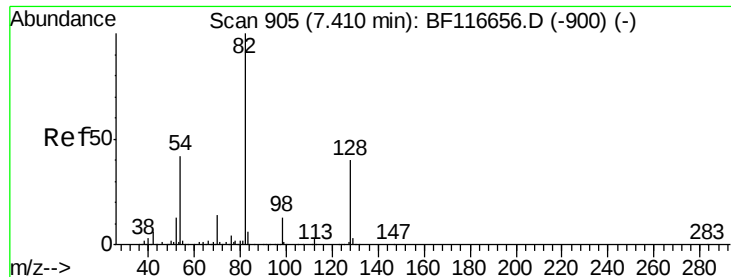
Delta R.T. 0.01 min

Lab File: BF117001.D

Acq: 12 Sep 2019 19:23

Tgt Ion:	136	Resp:	287217
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.5	12.7
54	5.0	3.8	5.8
68	4.7	3.6	5.4





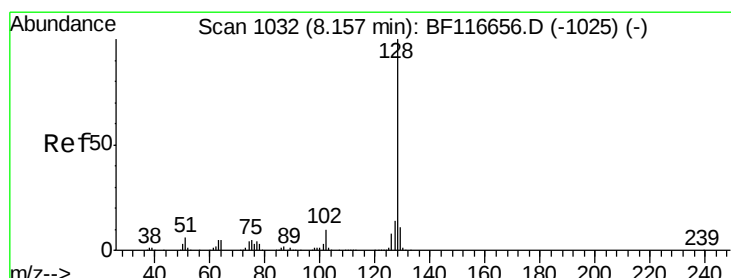
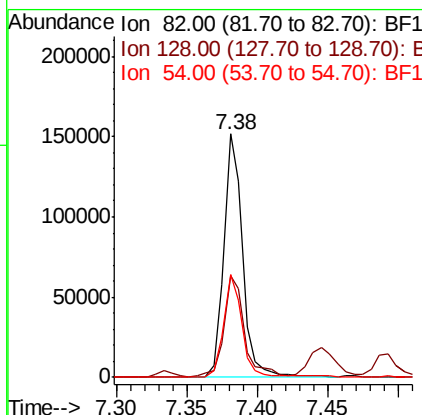
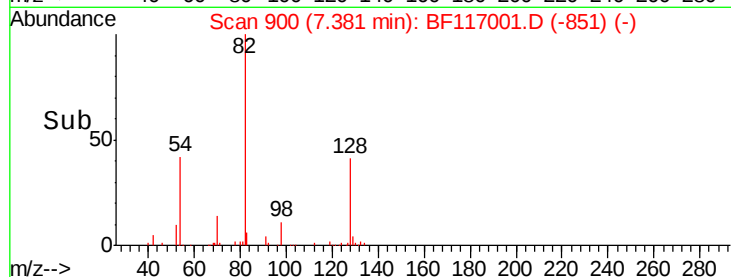
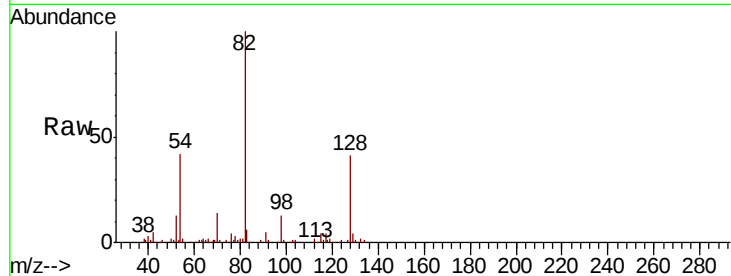
#23
Nitrobenzene-d5
Concen: 27.980 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.01 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7(-7)

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.5	35.0	52.4
54	42.4	32.6	48.8

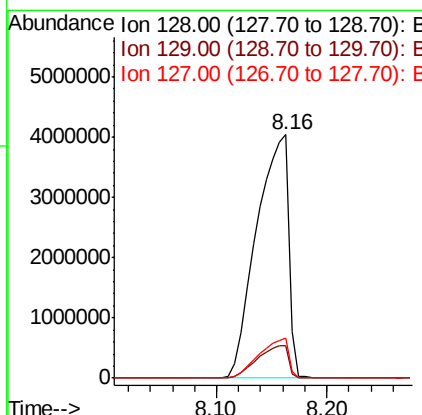
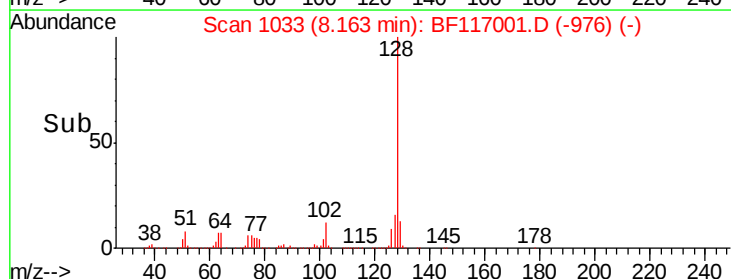
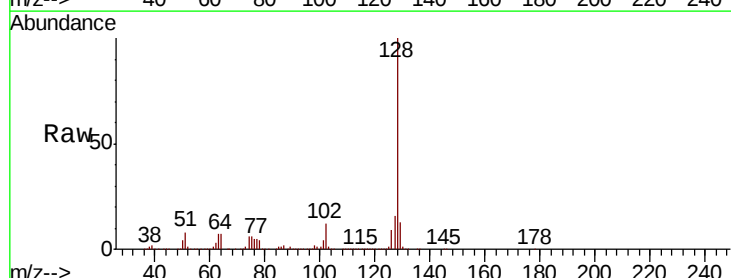
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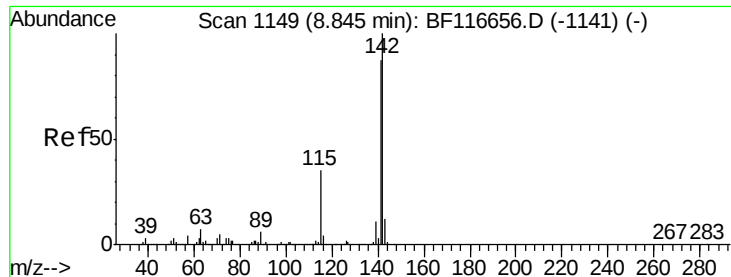
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#31
Naphthalene
Concen: 604.515 ng
RT: 8.16 min Scan# 1033
Delta R.T. 0.04 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.4	9.2	13.8
127	16.3	10.6	16.0





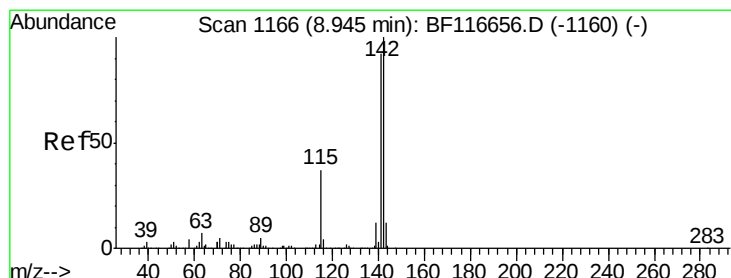
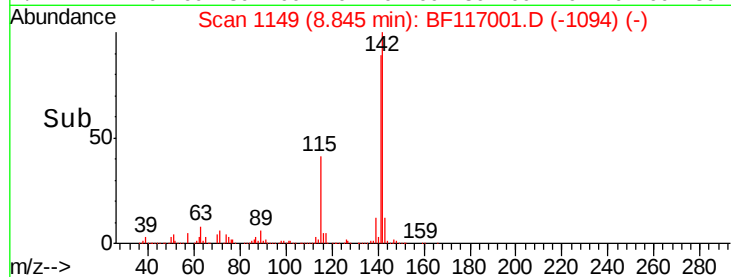
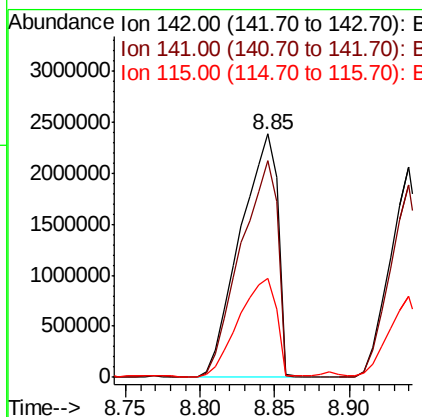
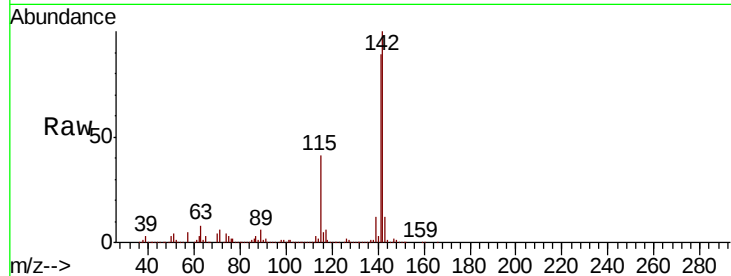
#37
2-Methylnaphthalene
Concen: 458.513 ng
RT: 8.85 min Scan# 1149
Delta R.T. 0.02 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7(7)

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.5	105.7
115	40.7	27.7	41.5

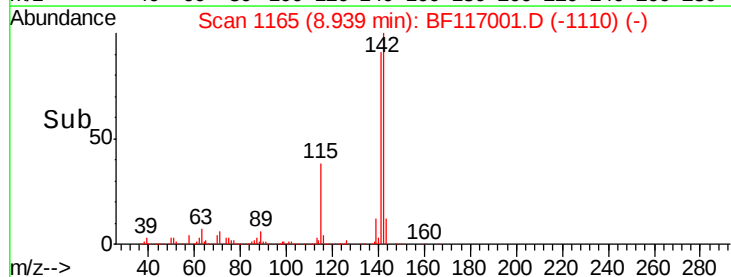
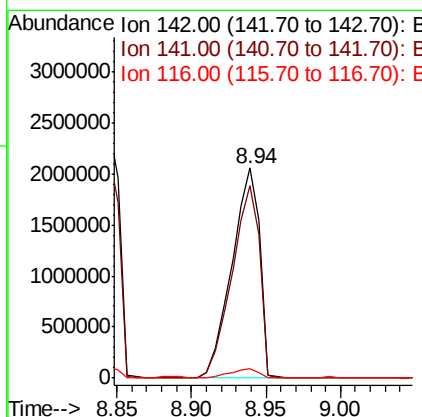
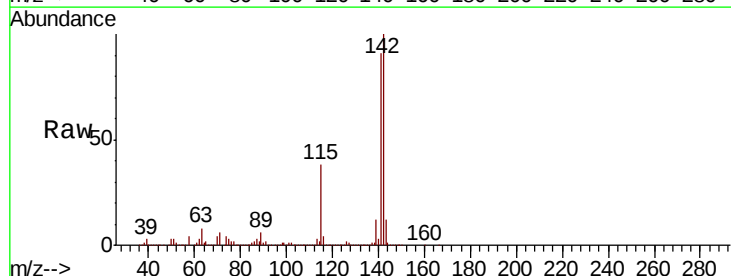
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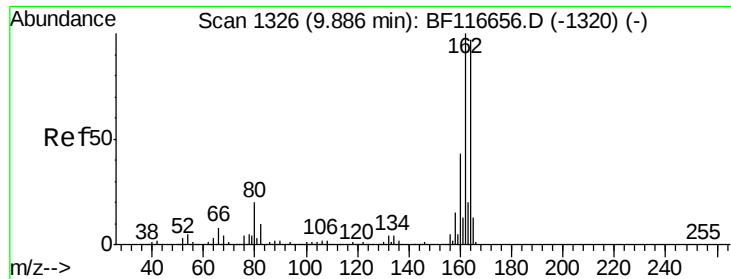
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#38
1-Methylnaphthalene
Concen: 311.007 ng
RT: 8.94 min Scan# 1165
Delta R.T. 0.02 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	71.9	107.9
116	4.2	3.2	4.8





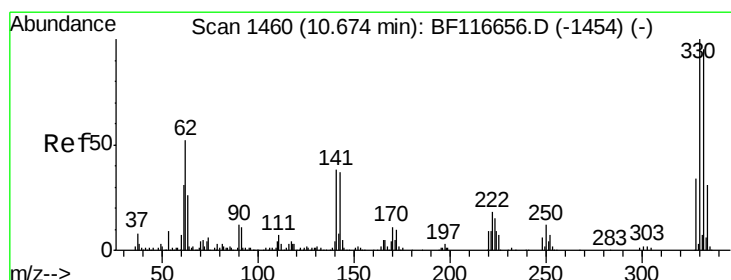
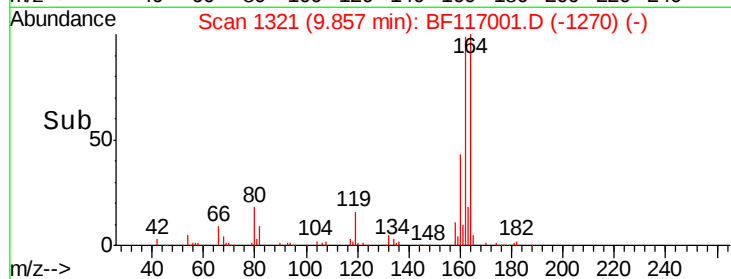
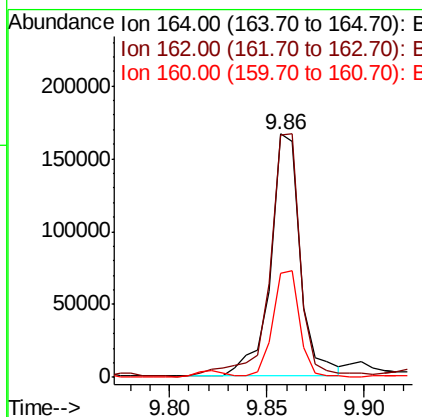
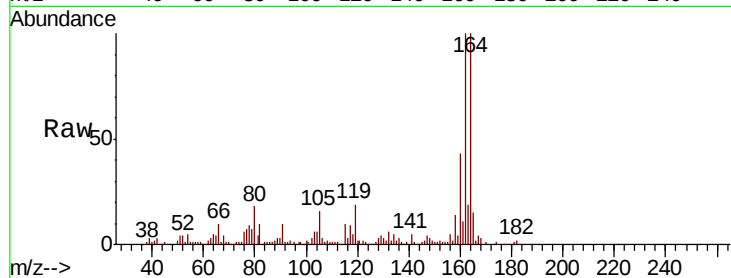
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1321
Delta R.T. 0.00 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7(7)

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	99.7	81.8	122.6	
160	42.9	35.7	53.5	

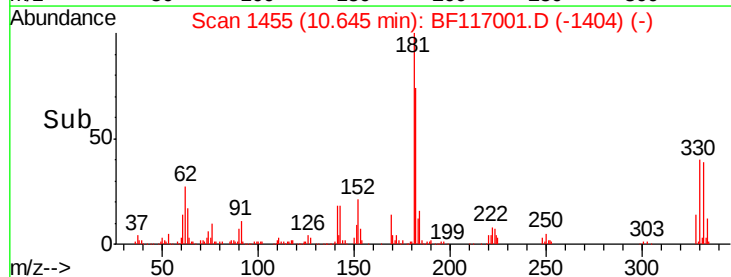
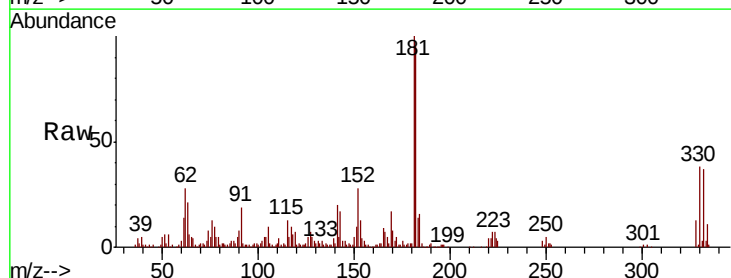
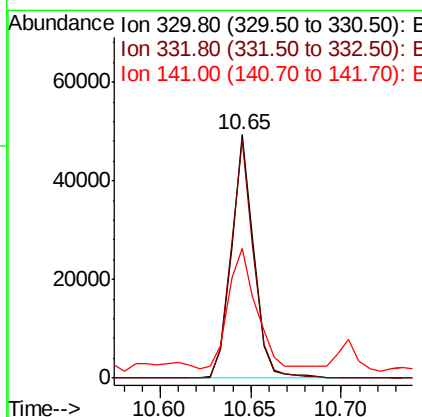
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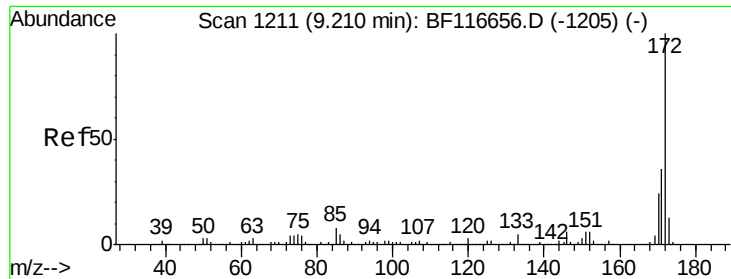
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#42
2,4,6-Tribromophenol
Concen: 36.413 ng
RT: 10.65 min Scan# 1455
Delta R.T. 0.00 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.4	75.9	113.9	
141	64.4	35.6	53.4	





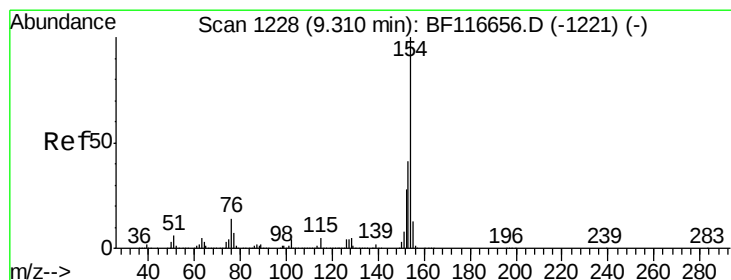
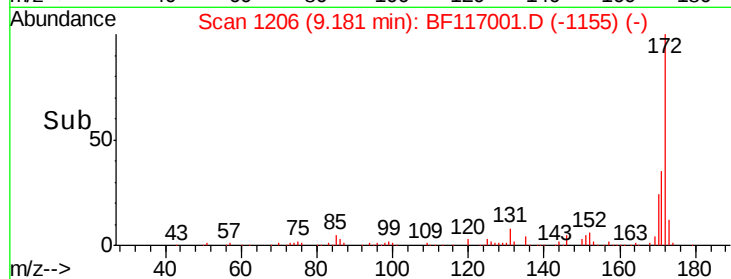
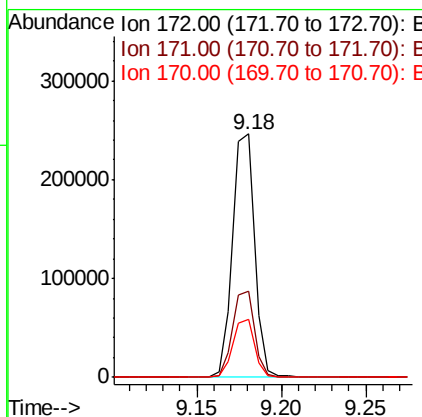
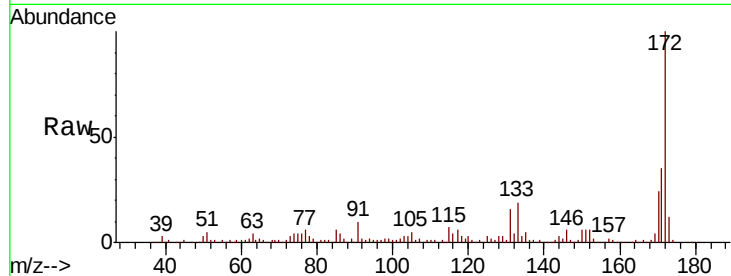
#45
2-Fluorobiphenyl
Concen: 21.430 ng
RT: 9.18 min Scan# 1206
Delta R.T. 0.00 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7(7)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	223160		
171	35.2		29.1	43.7
170	23.8		19.2	28.8

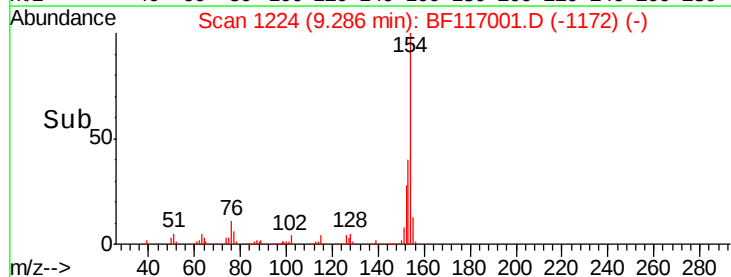
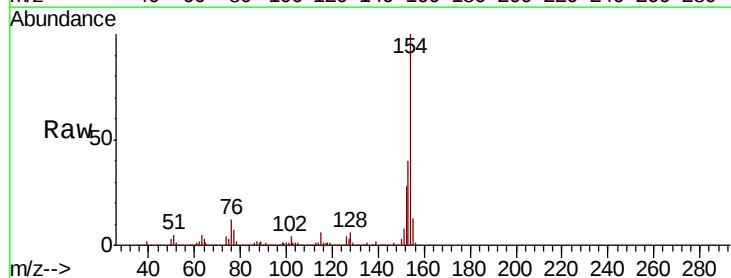
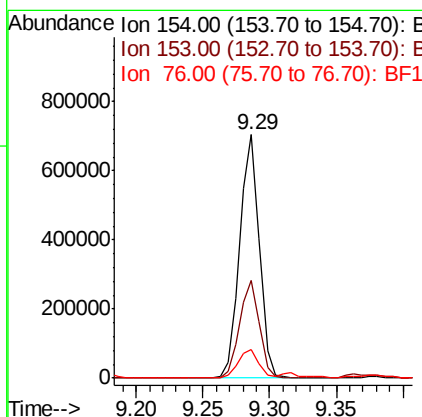
Manual Integrations
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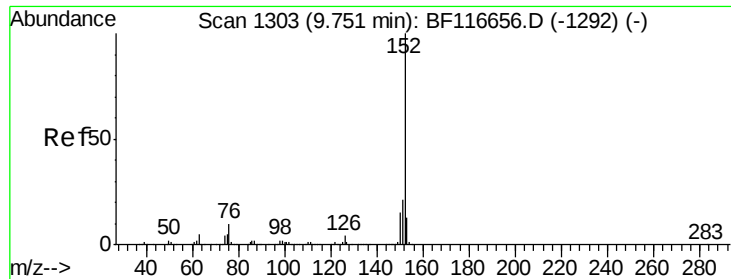
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#46
1,1'-Biphenyl
Concen: 54.035 ng
RT: 9.29 min Scan# 1224
Delta R.T. 0.01 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	720274		
153	39.9		19.8	59.8
76	11.6		0.0	32.8





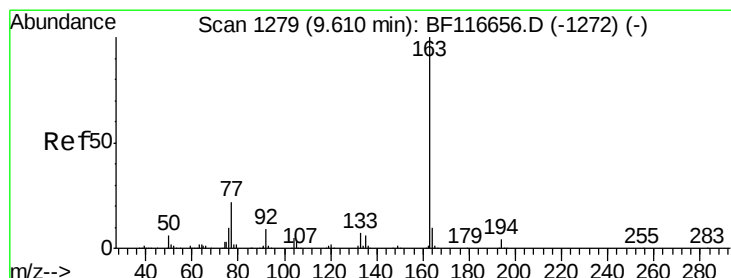
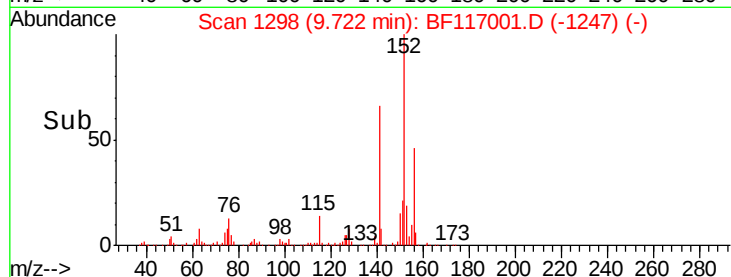
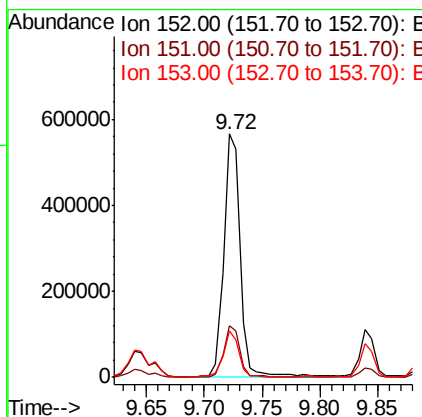
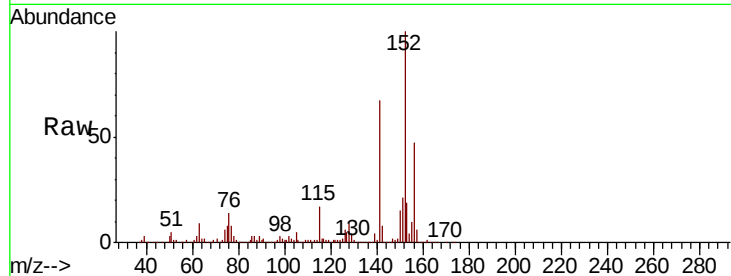
#49
Acenaphthylene
Concen: 34.716 ng
RT: 9.72 min Scan# 1298
Delta R.T. 0.00 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7(7)

Tot Ion	Ratio	Resp	Lower	Upper
152	100			
151	21.3	16.1	24.1	
153	18.9	10.3	15.5	

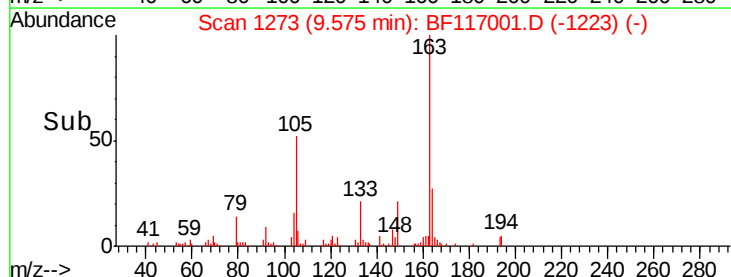
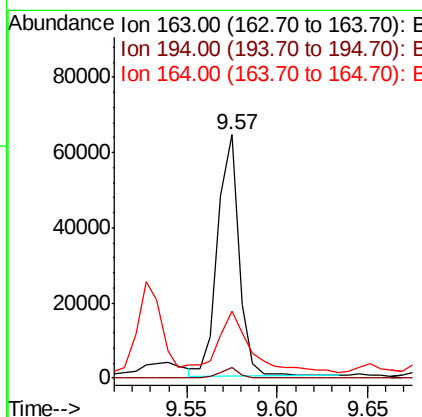
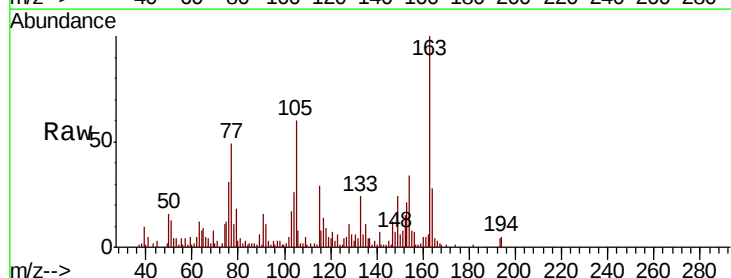
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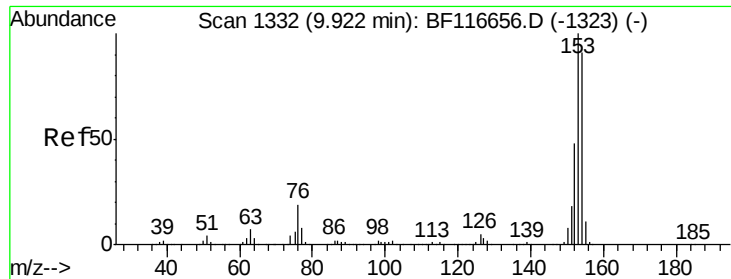
mohammad
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#50
Dimethylphthalate
Concen: 4.361 ng
RT: 9.57 min Scan# 1273
Delta R.T. -0.01 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.5	2.7	4.1	
164	27.7	8.2	12.4	





#52

Acenaphthene

Concen: 23.225 ng

RT: 9.89 min Scan# 1327

Delta R.T. 0.00 min

Lab File: BF117001.D

Acq: 12 Sep 2019 19:23

Instrument :

BNA_F

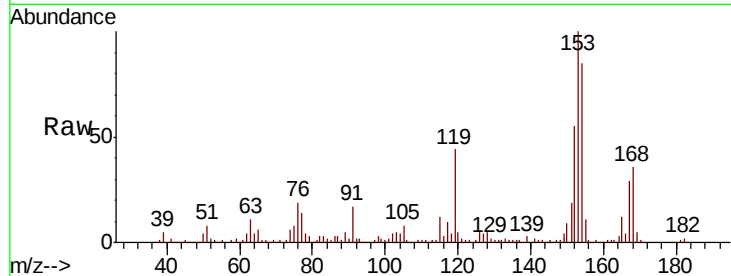
ClientSampleId :

AOC-7(7)

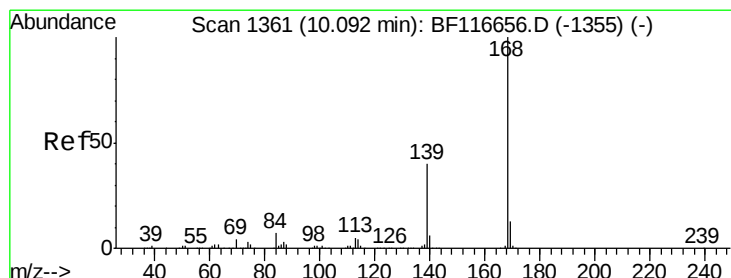
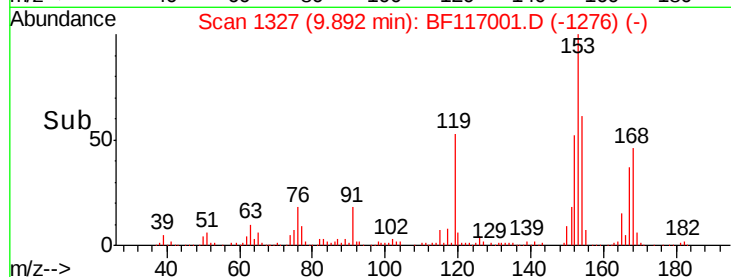
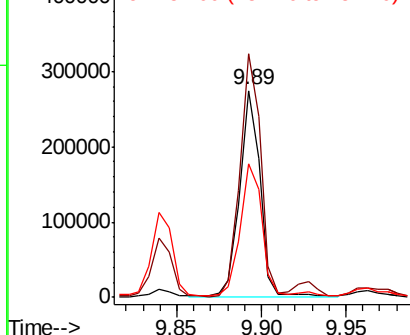
Tot Ion:	154	Resp:	227743
Ion Ratio	Lower	Upper	
154	100		
153	117.8	89.9	134.9
152	64.4	42.6	63.8#

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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: 20.830 ng

RT: 10.06 min Scan# 1356

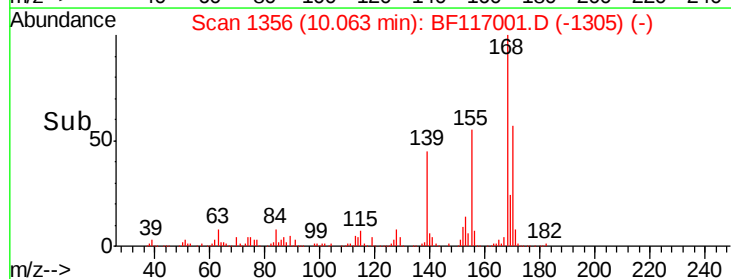
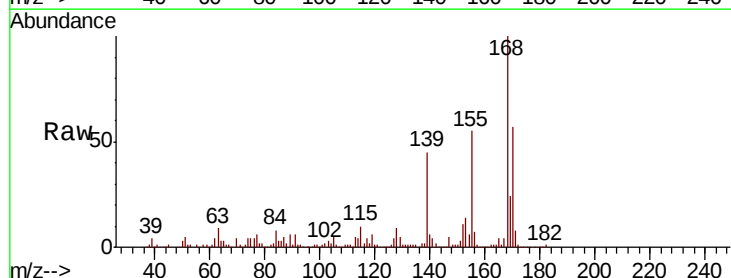
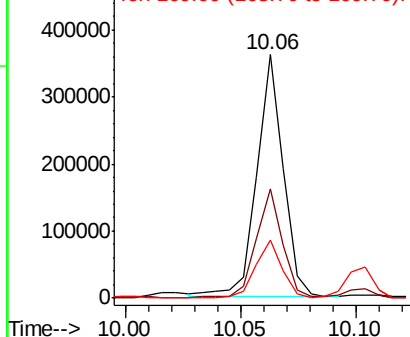
Delta R.T. 0.00 min

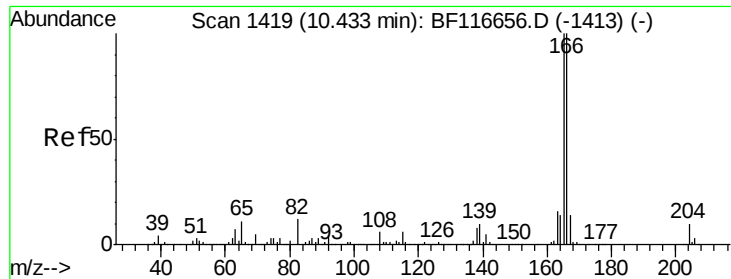
Lab File: BF117001.D

Acq: 12 Sep 2019 19:23

Tgt Ion:	168	Resp:	287942
Ion Ratio	Lower	Upper	
168	100		
139	44.9	34.2	51.4
169	23.9	11.0	16.4#

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





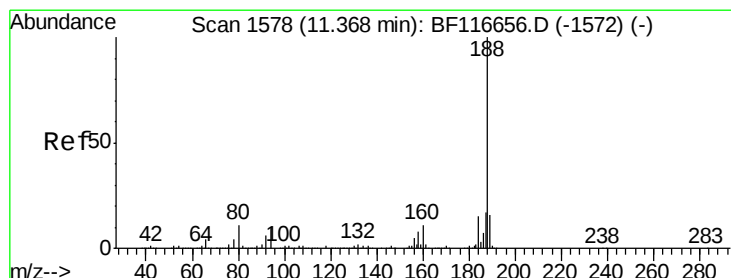
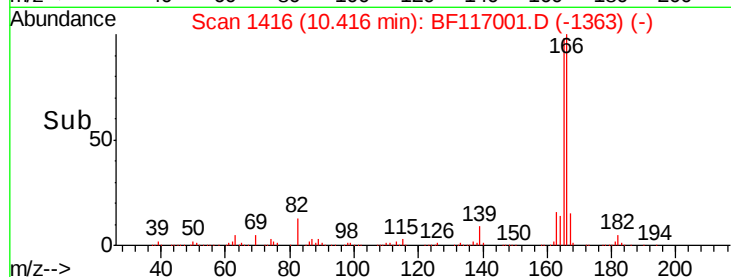
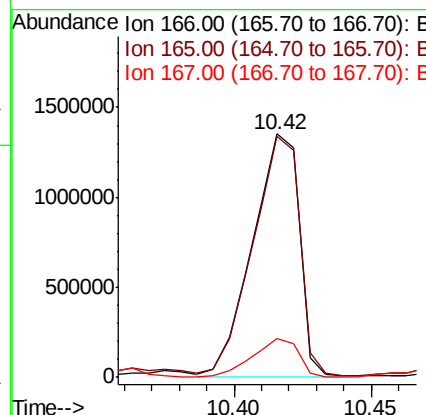
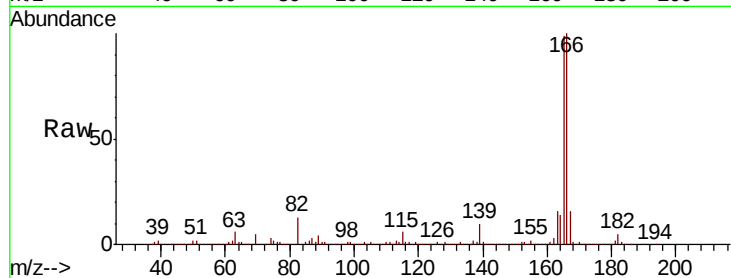
#58
 Fluorene
 Concen: 153.096 ng/mL
 RT: 10.42 min Scan# 1416
 Delta R.T. 0.01 min
 Lab File: BF117001.D
 Acq: 12 Sep 2019 19:23

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7(7)

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.1	77.0	115.6
167	16.2	10.7	16.1

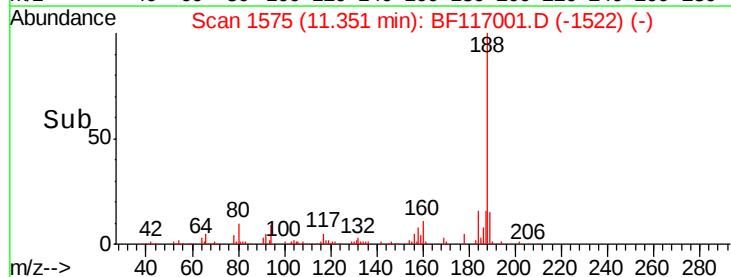
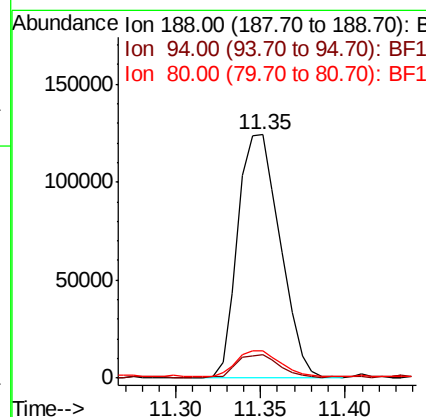
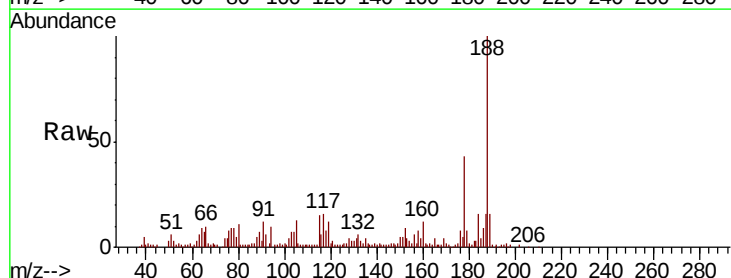
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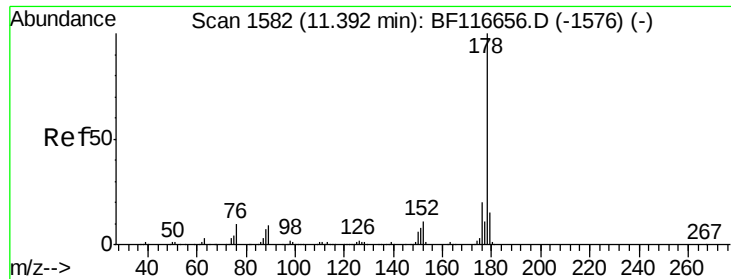
mohammad
 9/16/2019 8:59:47 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: BF117001.D
 Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.2
80	11.1	8.5	12.7





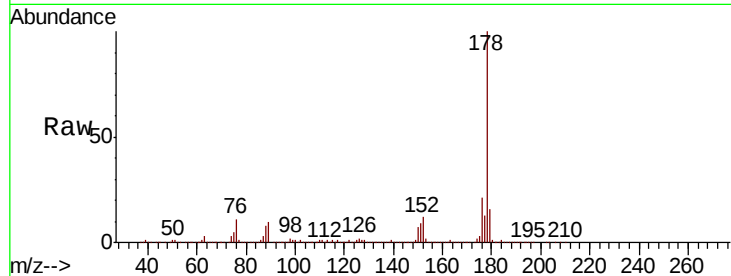
#71
Phenanthrene
Concen: 411.963 ng
RT: 11.40 min Scan# 1583
Delta R.T. 0.03 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7(7)

Tot Ion	Ratio	Lower	Upper
178	100		
176	21.4	15.7	23.5
179	16.4	12.0	18.0

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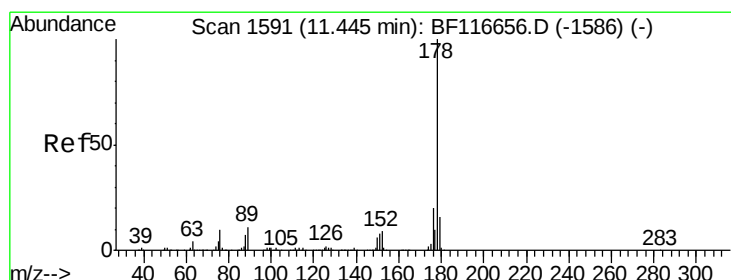
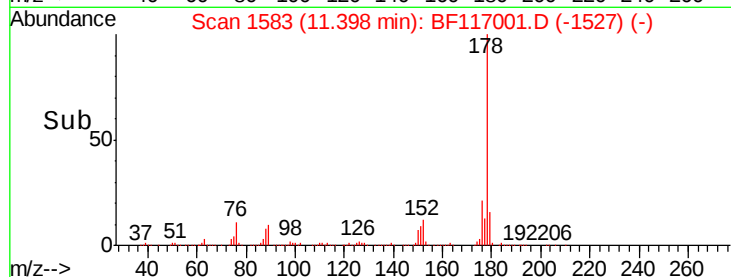
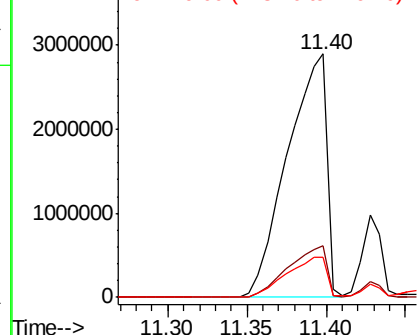


Abundance

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



#72
Anthracene
Concen: 67.732 ng
RT: 11.43 min Scan# 1588
Delta R.T. 0.01 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

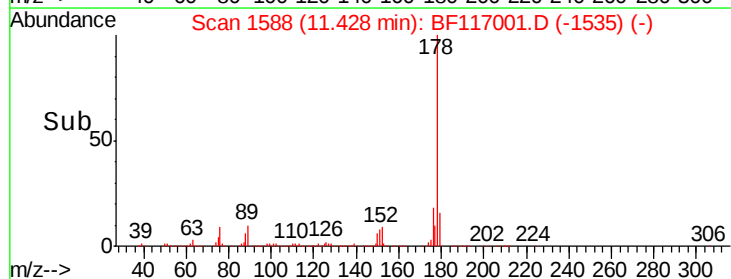
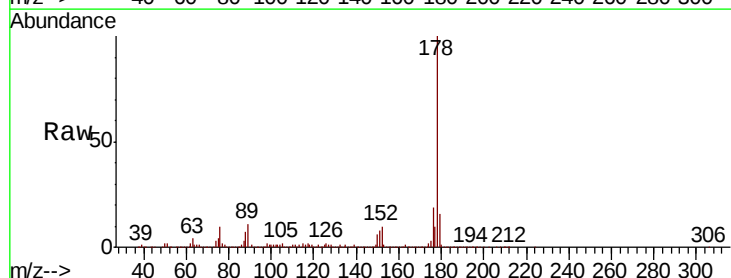
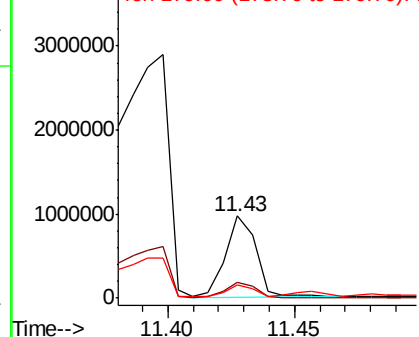
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.9	12.3	18.5

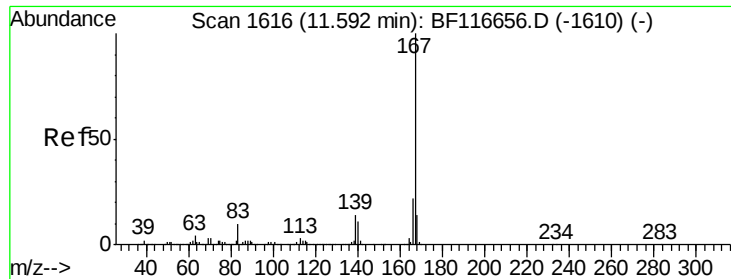
Abundance

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





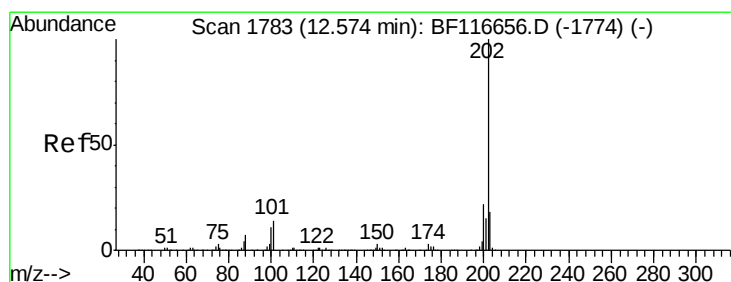
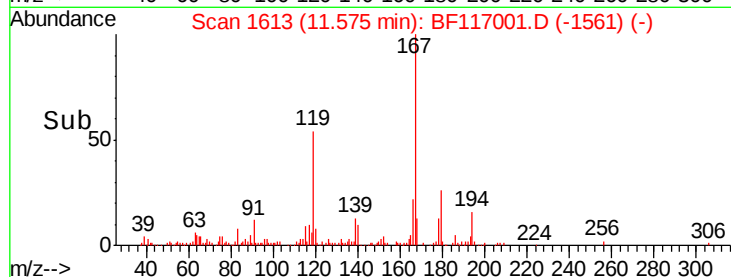
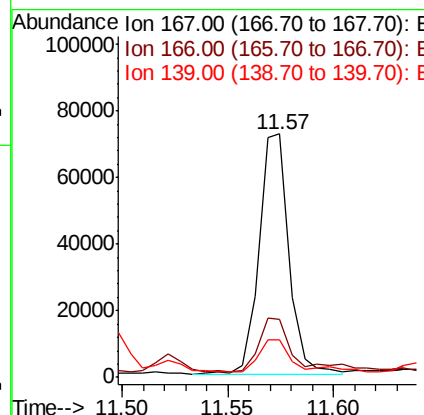
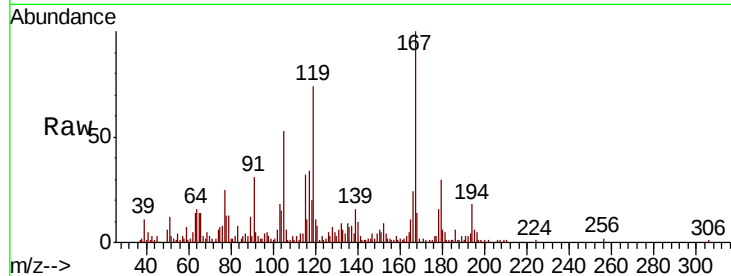
#73
 Carbazole
 Concen: 6.135 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. 0.01 min
 Lab File: BF117001.D
 Acq: 12 Sep 2019 19:23

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(7)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100		70839		
166	23.7			17.7	26.5
139	15.6			11.4	17.2

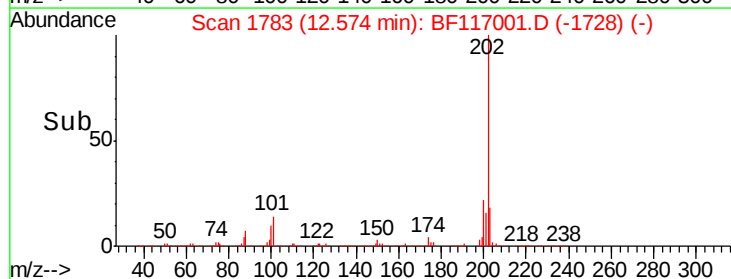
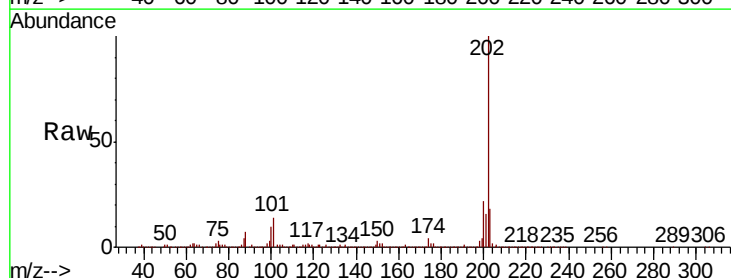
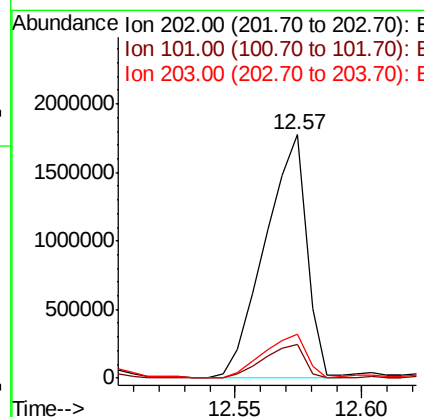
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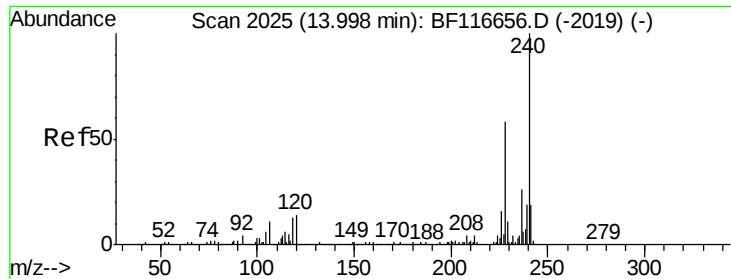
mohammad
 9/16/2019 8:59:47 AM



#75
 Fluoranthene
 Concen: 169.612 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.02 min
 Lab File: BF117001.D
 Acq: 12 Sep 2019 19:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100		2007310		
101	13.7			0.0	32.0
203	18.2			0.0	37.5





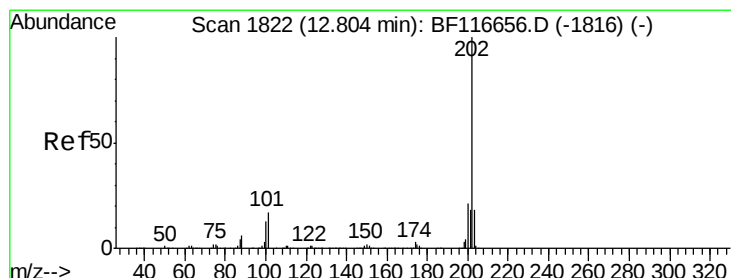
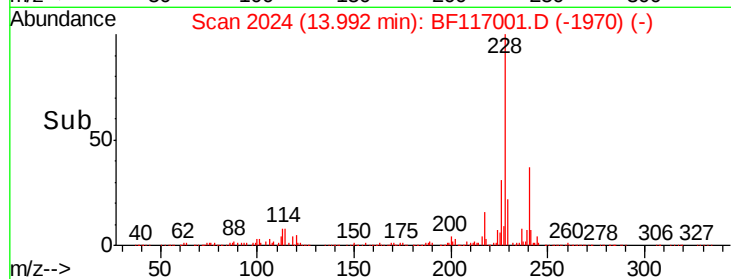
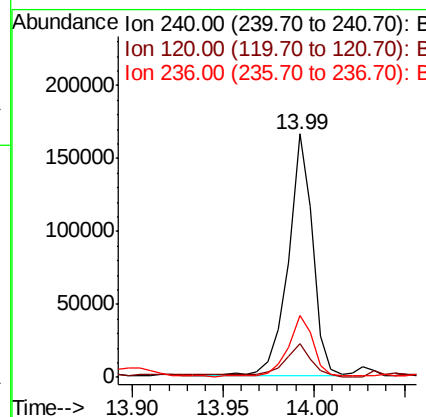
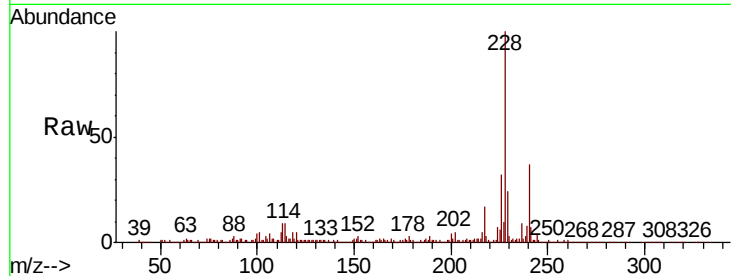
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.02 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7(-7)

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.7	9.1	13.7#
236	25.3	20.9	31.3

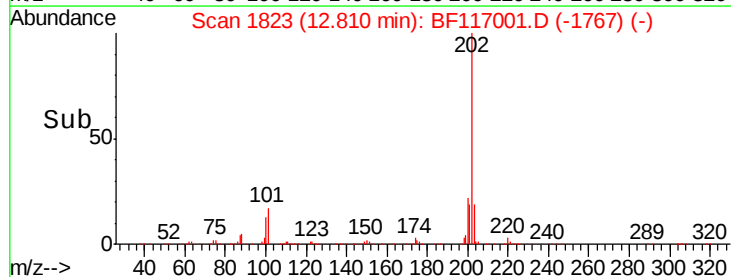
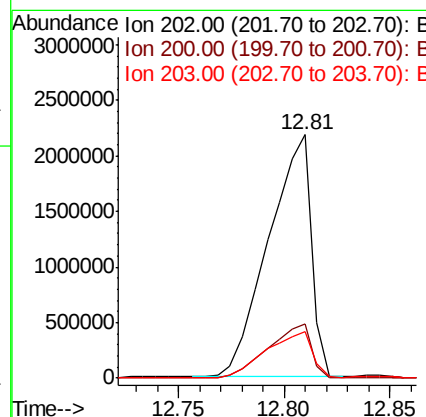
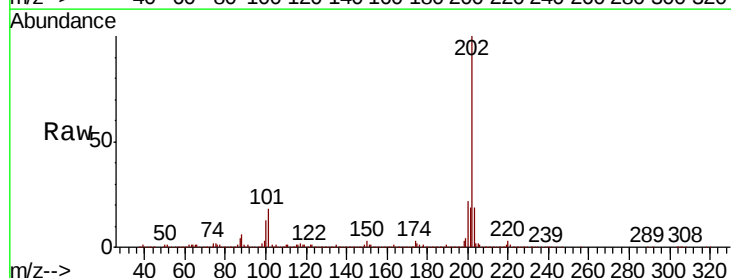
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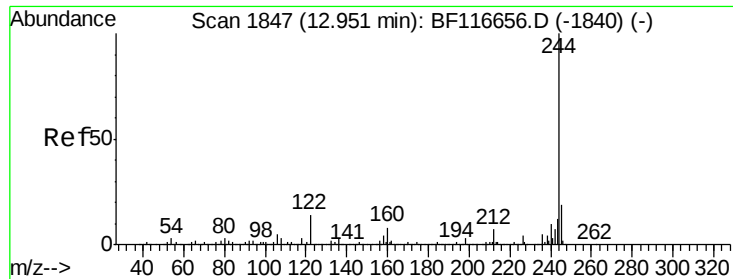
mohammad
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#78
Pyrene
Concen: 220.569 ng
RT: 12.81 min Scan# 1823
Delta R.T. 0.03 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.2	25.8
203	19.1	14.2	21.2





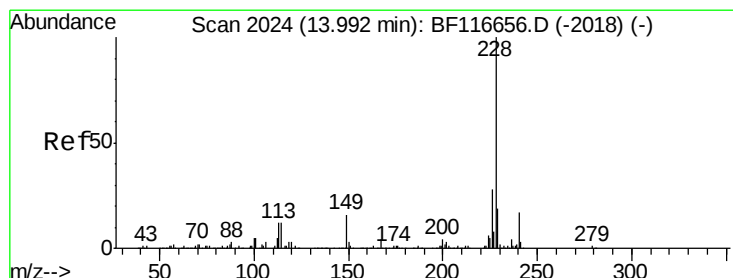
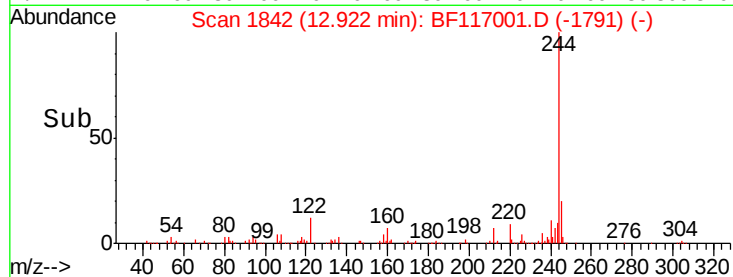
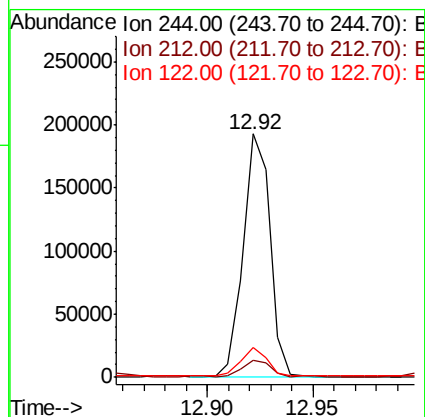
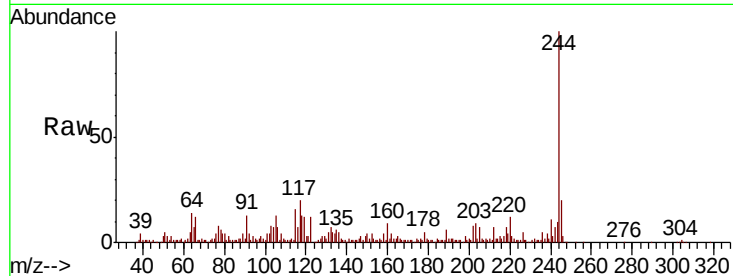
#79
 Terphenyl-d14
 Concen: 20.049 ng
 RT: 12.92 min Scan# 1842
 Delta R.T. 0.00 min
 Lab File: BF117001.D
 Acq: 12 Sep 2019 19:23

Instrument :
 BNA_F
 ClientSampled :
 AOC-7(7)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.7	8.5
122	12.4	11.5	17.3

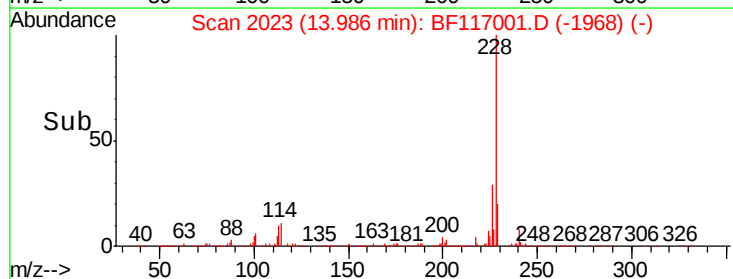
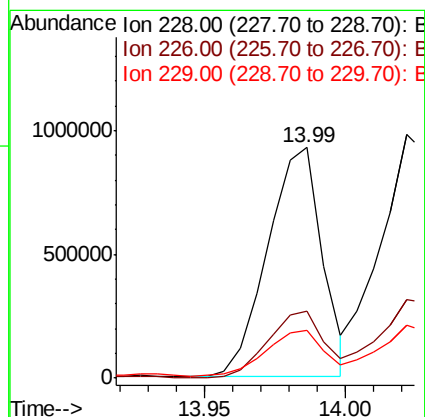
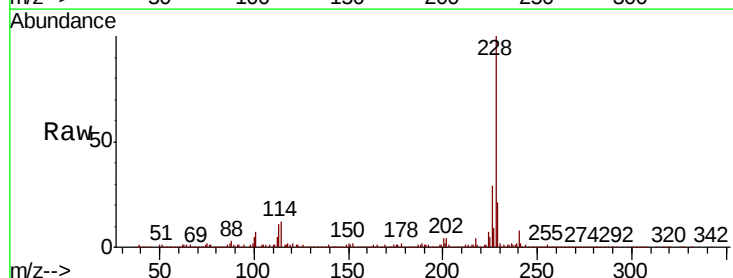
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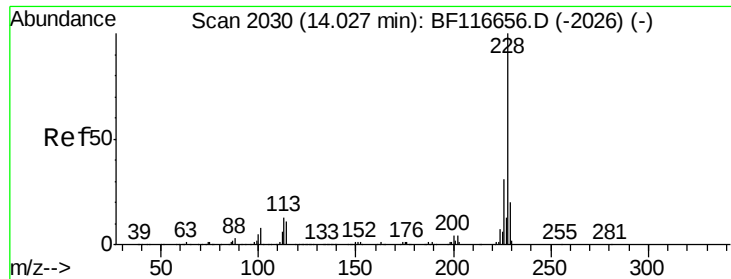
mohammad
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#81
 Benzo(a)anthracene
 Concen: 125.793 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. 0.02 min
 Lab File: BF117001.D
 Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.3	33.5
229	20.8	15.8	23.8





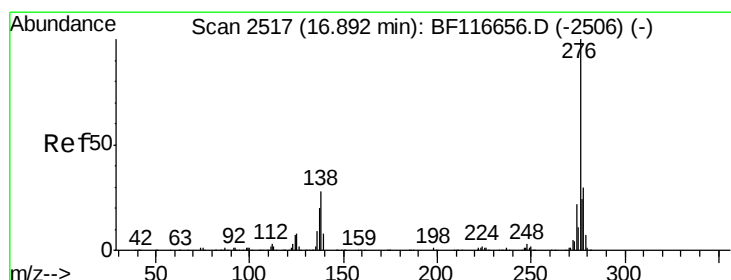
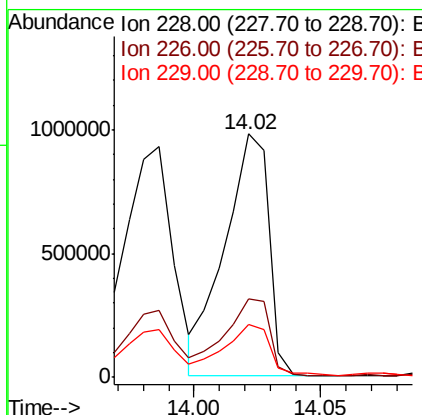
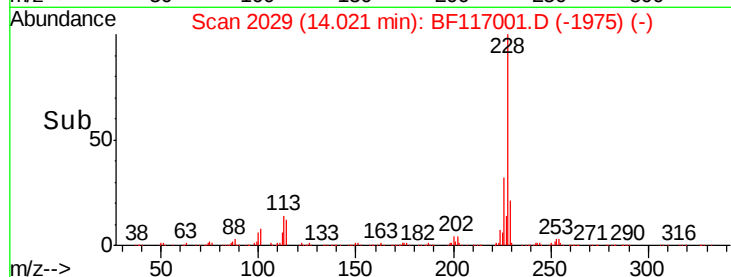
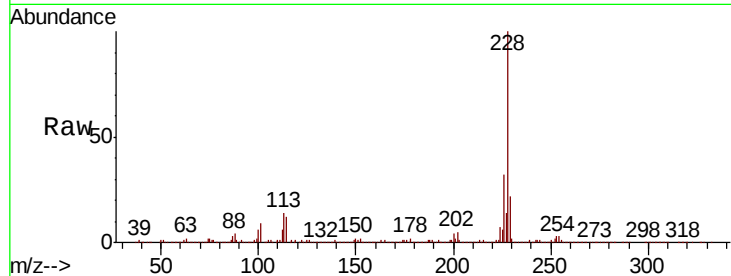
#83
Chrysene
Concen: 116.281 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.02 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampled :
AOC-7(-7)

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.5	36.7
229	21.7	15.7	23.5

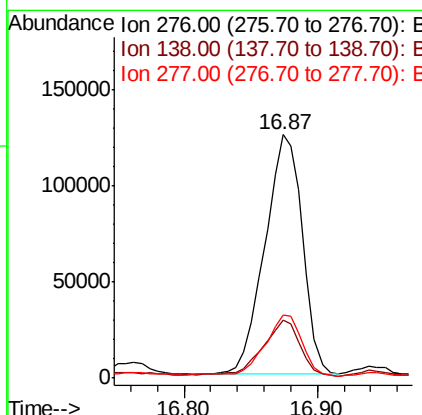
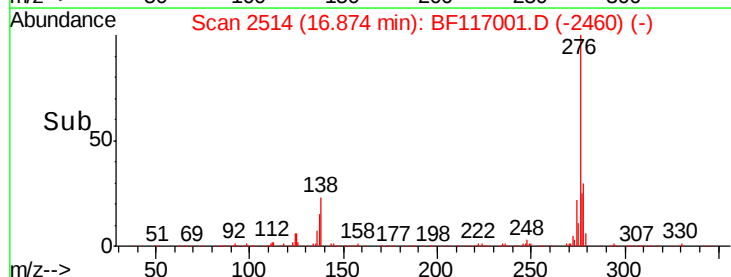
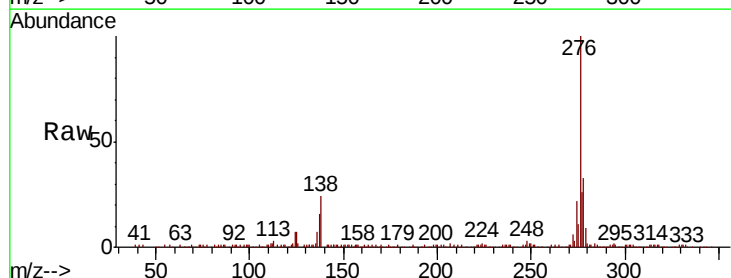
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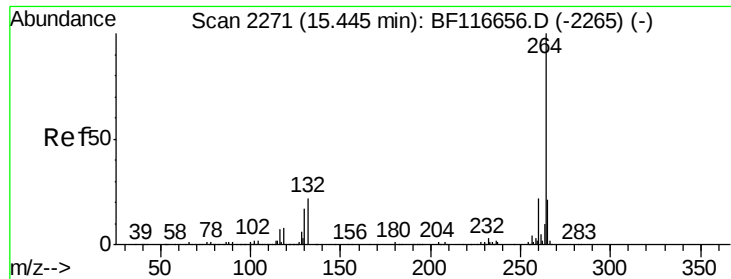
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 29.601 ng
RT: 16.87 min Scan# 2514
Delta R.T. 0.02 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.7	20.6	31.0
277	25.9	19.9	29.9





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. 0.02 min

Lab File: BF117001.D

Acq: 12 Sep 2019 19:23

Instrument :

BNA_F

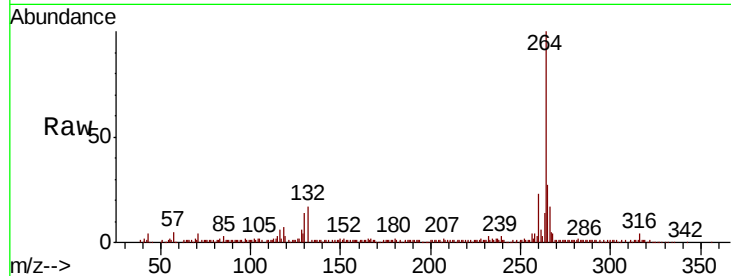
ClientSampleId :

AOC-7(-7)

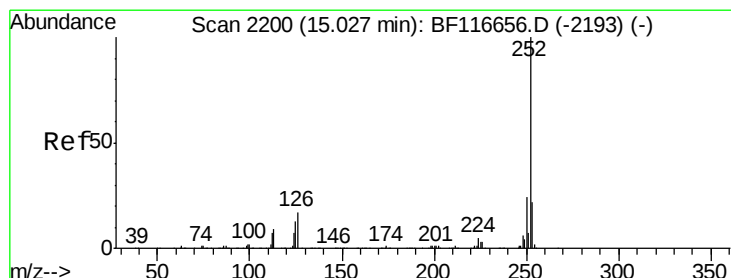
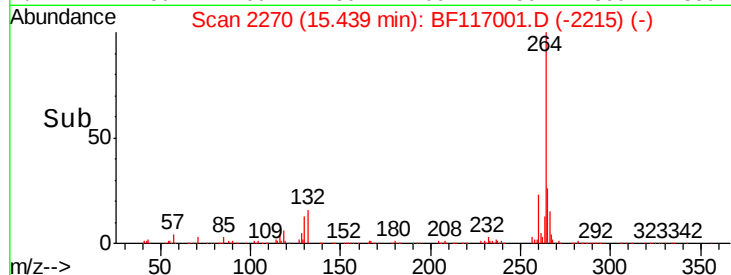
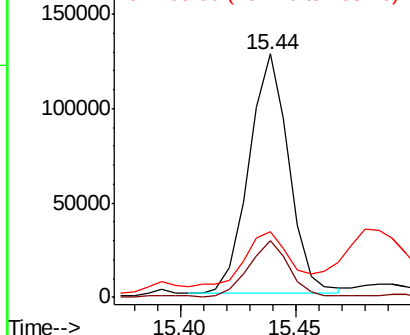
Tot Ion:	264	Resp:	153869
Ion Ratio	Lower	Upper	
264	100		
260	23.2	19.0	28.4
265	27.1	17.9	26.9#

Manual Integrations
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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 81.949 ng m

RT: 15.03 min Scan# 2200

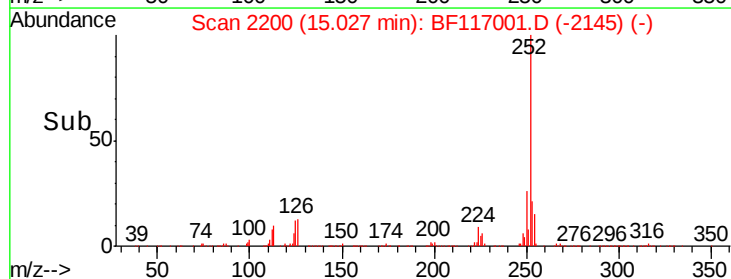
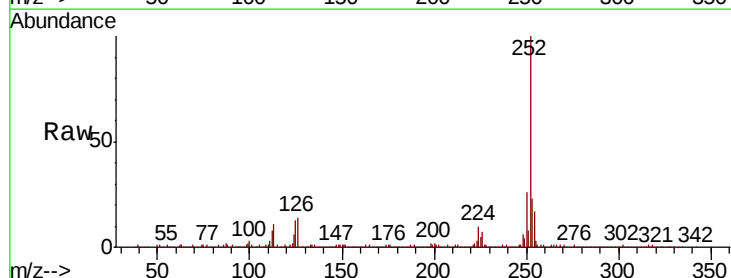
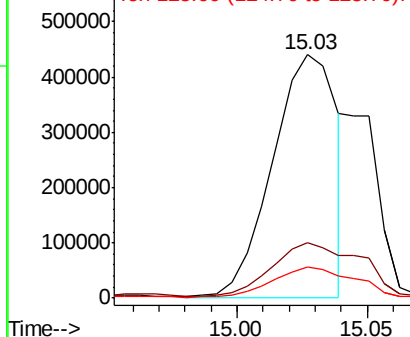
Delta R.T. 0.02 min

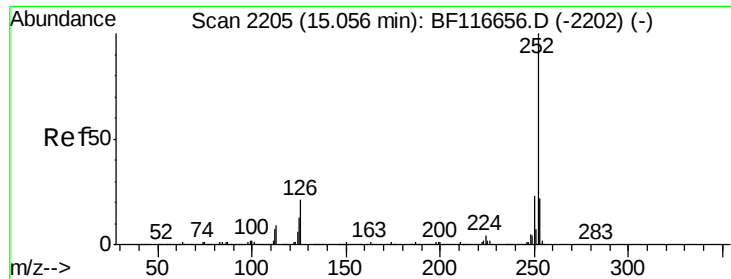
Lab File: BF117001.D

Acq: 12 Sep 2019 19:23

Tgt Ion:	252	Resp:	762343
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.5	26.3
125	12.8	8.3	12.5#

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





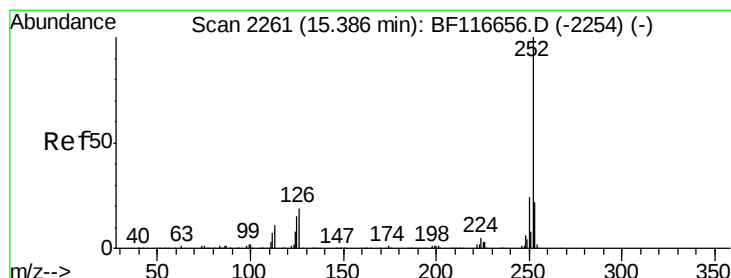
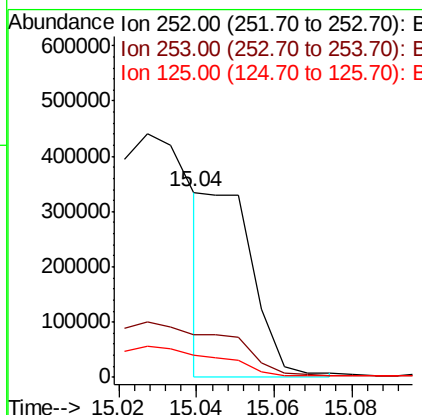
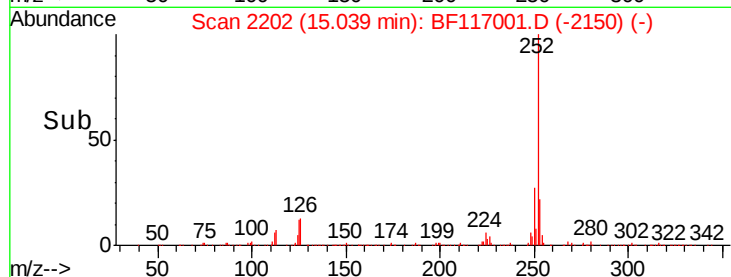
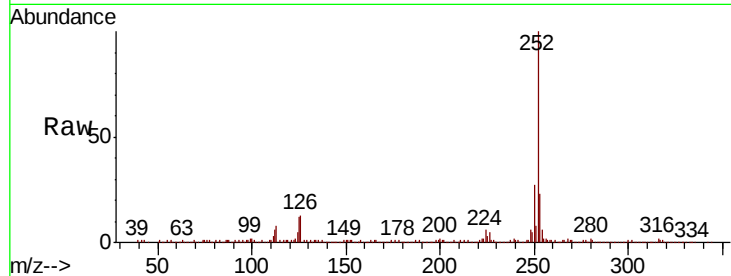
#89
Benzo(k)fluoranthene
Concen: 33.994 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Instrument :
BNA_F
ClientSampleId :
AOC-7(7)

Tot Ion	Ratio	Resp	Lower	Upper
252	100	288339		
253	22.9	16.8	25.2	
125	12.2	7.6	11.4	

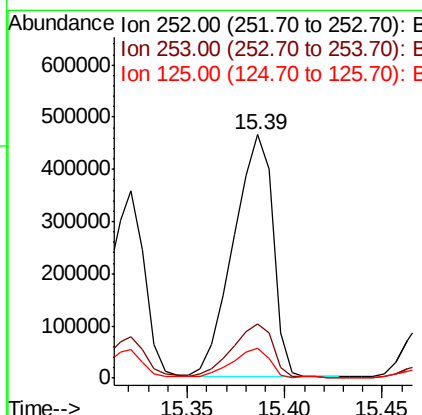
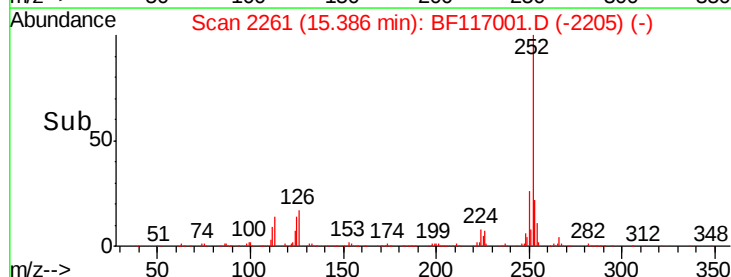
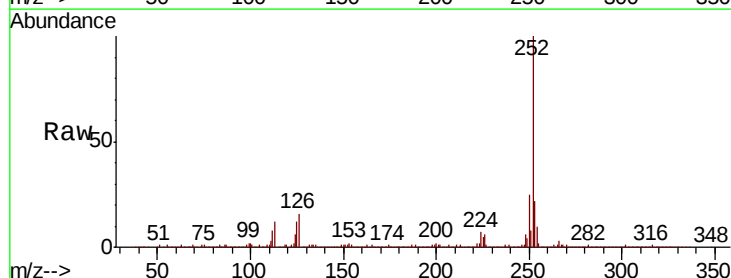
Manual Integrations
APPROVED

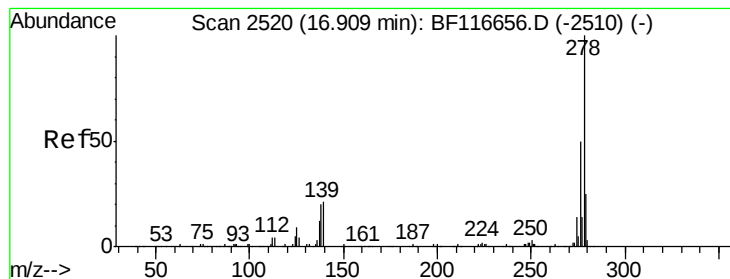
mohammad
9/16/2019 8:59:47 AM



#90
Benzo(a)pyrene
Concen: 80.514 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.03 min
Lab File: BF117001.D
Acq: 12 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	651633		
253	22.3	17.6	26.4	
125	12.4	10.2	15.2	





#91

Dibenzo(a,h)anthracene

Concen: 12.516 ng

RT: 16.88 min Scan# 2515

Delta R.T. 0.01 min

Lab File: BF117001.D

Acq: 12 Sep 2019 19:23

Instrument :

BNA_F

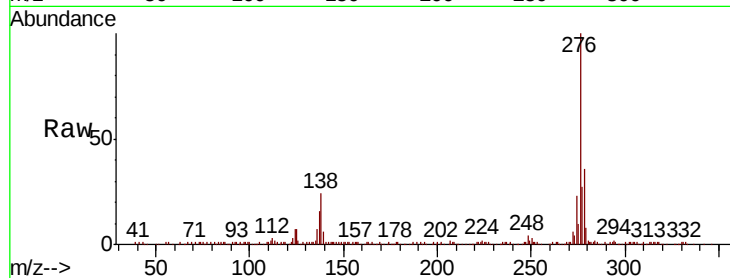
ClientSampleID :

AOC-7(7)

Tot Ion:	278	Resp:	88670
Ion	Ratio	Lower	Upper
278	100		
139	17.7	13.1	19.7
279	23.1	18.6	27.8

Manual Integrations
APPROVED

mohammad
9/16/2019 8:59:47 AM

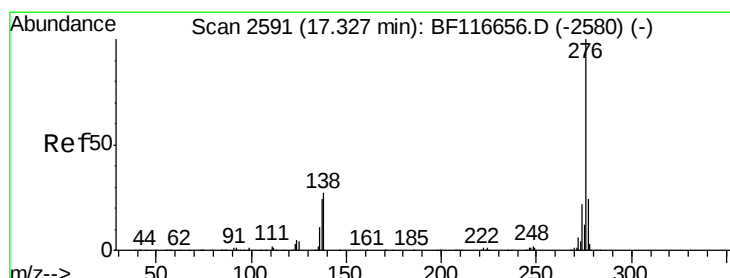
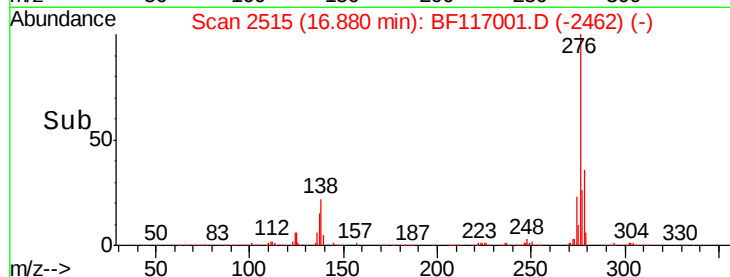
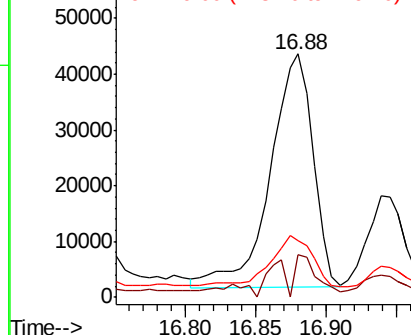


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 34.582 ng

RT: 17.32 min Scan# 2589

Delta R.T. 0.03 min

Lab File: BF117001.D

Acq: 12 Sep 2019 19:23

Tgt Ion:	276	Resp:	249854
Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.0	28.6
138	22.0	18.7	28.1

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

