

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112519\
 Data File : BF117996.D
 Acq On : 26 Nov 2019 5:29
 Operator : JU
 Sample : K5672-01 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-112219

Manual Integrations
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Quant Time: Nov 26 07:18:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 05:38:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	122783	20.00	ng	0.00
21) Naphthalene-d8	8.18	136	447535	20.00	ng	0.00
39) Acenaphthene-d10	9.95	164	192038	20.00	ng	0.00
64) Phenanthrene-d10	11.44	188	300831	20.00	ng	0.00
76) Chrysene-d12	14.10	240	231514	20.00	ng	0.01
87) Perylene-d12	15.60	264	199826	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	147927	21.33	ng	0.00
7) Phenol-d6	6.51	99	186200	22.26	ng	-0.01
23) Nitrobenzene-d5	7.45	82	103749	13.78	ng	-0.01
42) 2,4,6-Tribromophenol	10.73	330	34349	16.90	ng	0.00
45) 2-Fluorobiphenyl	9.26	172	195021	18.22	ng	0.00
79) Terphenyl-d14	13.04	244	172477	13.62	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.20	128	266924	12.794	ng	98
37) 2-Methylnaphthalene	8.90	142	222410	15.777	ng	99
38) 1-Methylnaphthalene	9.00	142	207380	15.561	ng	98
46) 1,1'-Biphenyl	9.36	154	42444	2.979	ng	94
49) Acenaphthylene	9.80	152	209190	12.242	ng	97
50) Dimethylphthalate	9.65	163	27178	2.018	ng	# 92
52) Acenaphthene	9.98	154	169063	15.444	ng	98
55) Dibenzofuran	10.15	168	147517	9.732	ng	# 98
58) Fluorene	10.50	166	355104	30.230	ng	99
71) Phenanthrene	11.47	178	1715944	113.452	ng	100
72) Anthracene	11.52	178	655095	43.685	ng	97
73) Carbazole	11.67	167	93826	7.160	ng	98
75) Fluoranthene	12.67	202	1540695	125.288	ng	100
78) Pyrene	12.91	202	1757430	93.930	ng	100
81) Benzo(a)anthracene	14.09	228	814858	53.263	ng	94
83) Chrysene	14.13	228	733680	49.491	ng	97
86) Indeno(1,2,3-cd)pyrene	17.13	276	227464	18.028	ng	95
88) Benzo(b)fluoranthene	15.16	252	592725m	45.655	ng	
89) Benzo(k)fluoranthene	15.19	252	240754m	19.681	ng	
90) Benzo(a)pyrene	15.54	252	492881	43.174	ng	98
91) Dibenzo(a,h)anthracene	17.14	278	70551	7.180	ng	# 89
92) Benzo(g,h,i)perylene	17.60	276	214290	21.895	ng	98

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

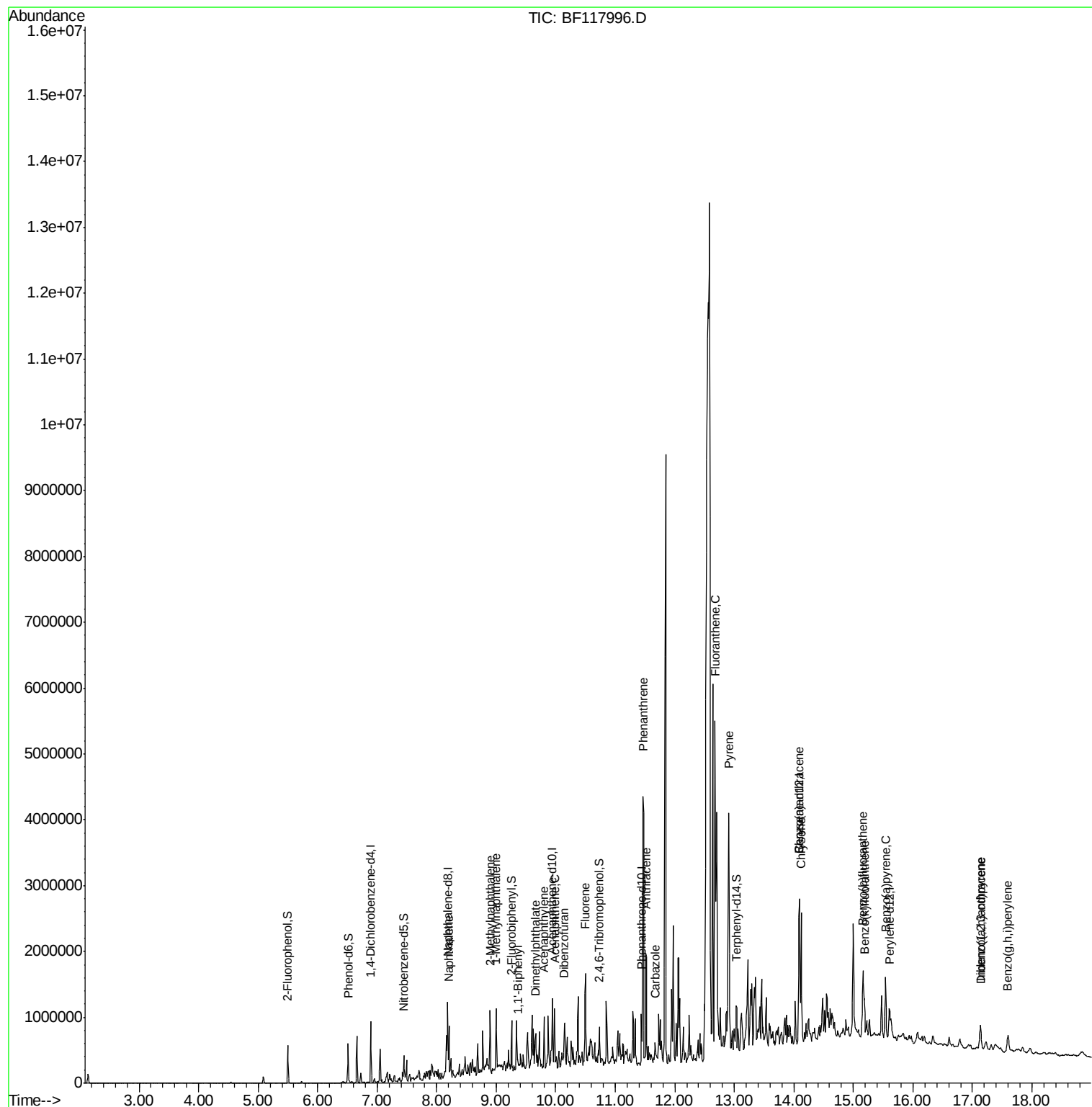
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112519\
Data File : BF117996.D
Acq On : 26 Nov 2019 5:29
Operator : JU
Sample : K5672-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

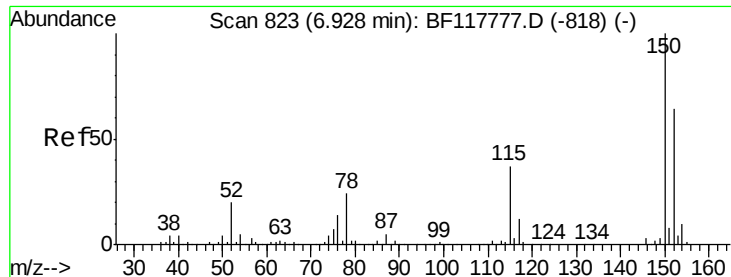
Instrument :
BNA_F
ClientSampleId :
EO-02-112219

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Quant Time: Nov 26 07:18:02 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

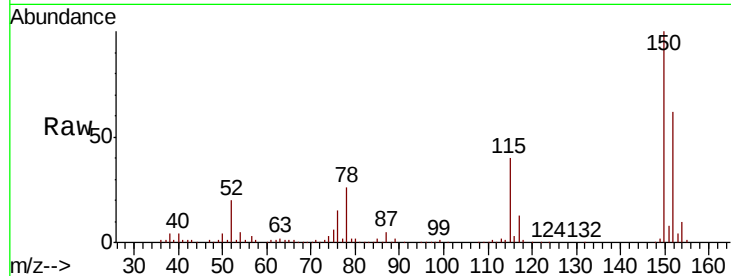
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. 0.00 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.4	125.3	187.9
115	64.3	47.0	70.4

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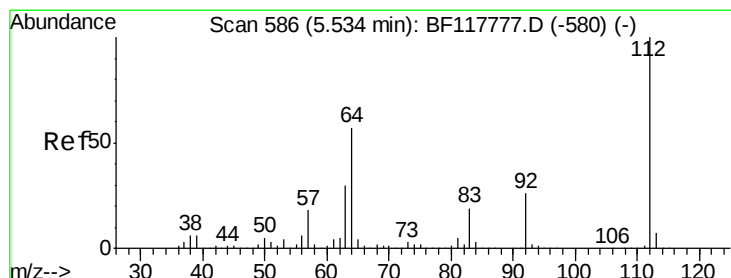
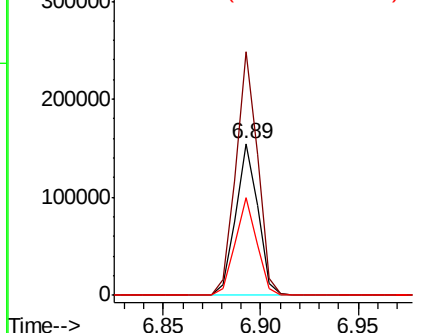
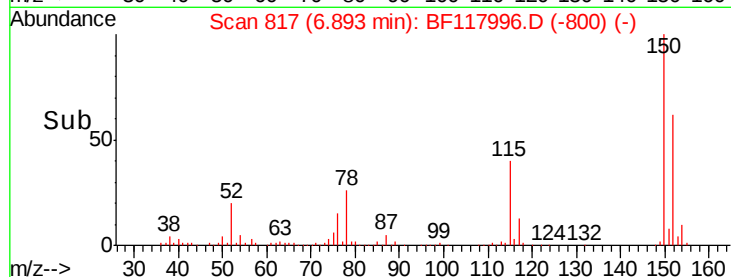


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

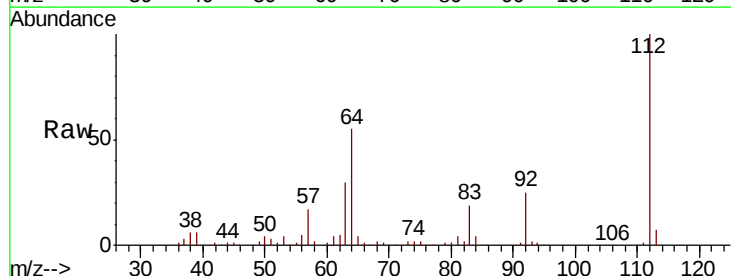
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 21.326 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.00 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	45.6	68.4
63	29.9	24.1	36.1

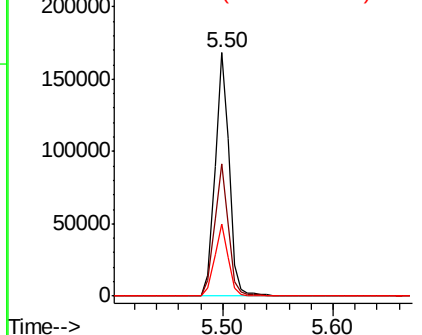
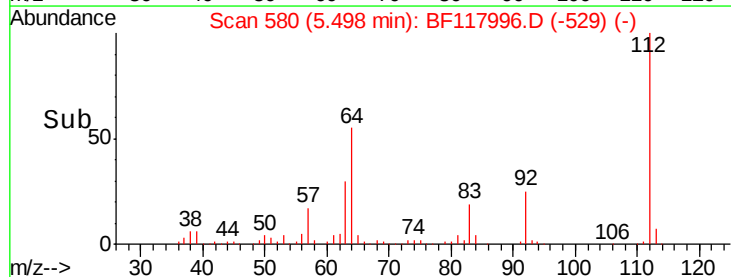


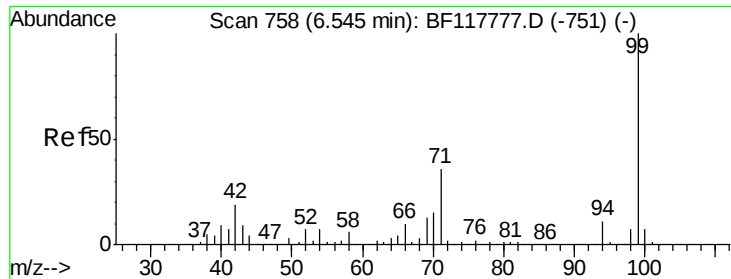
Abundance

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: 22.255 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Instrument :

BNA_F

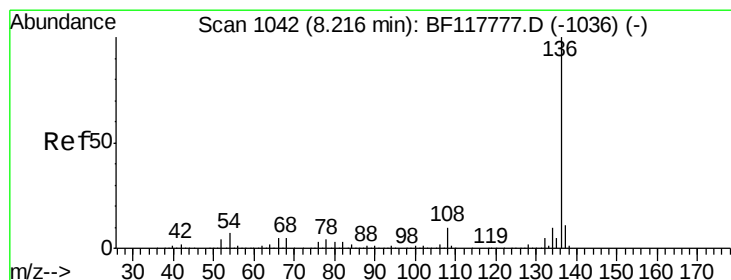
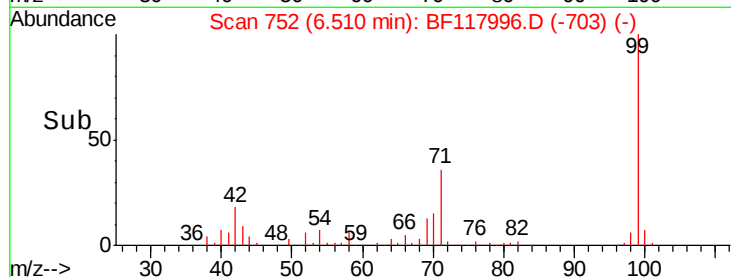
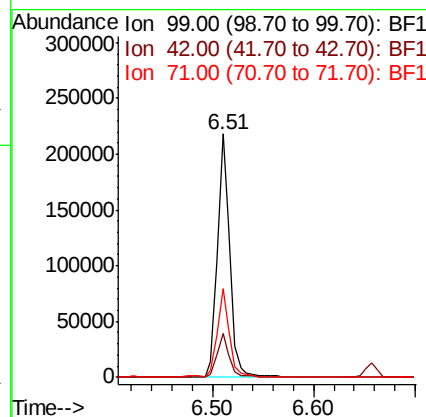
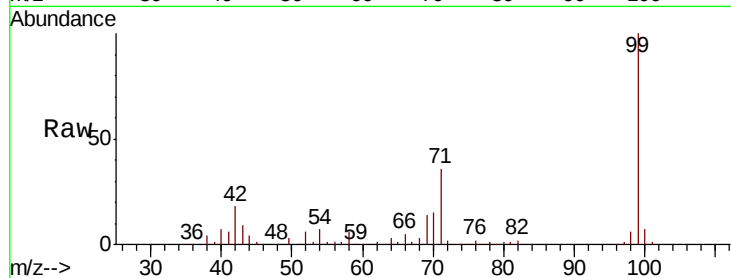
ClientSampleId :

EO-02-112219

Tot Ion:	99	Resp:	186200
Ion Ratio	Lower	Upper	
99	100		
42	18.1	14.9	22.3
71	36.4	28.6	43.0

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#21

Naphthalene-d8

Concen: 20.000 ng

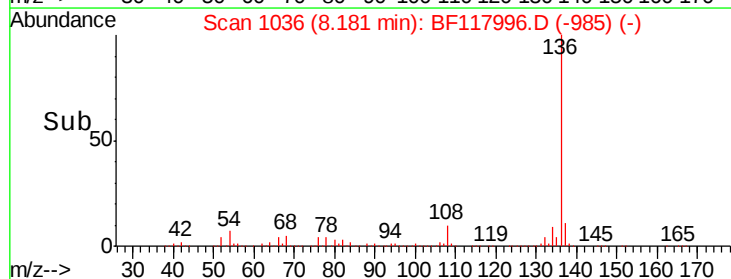
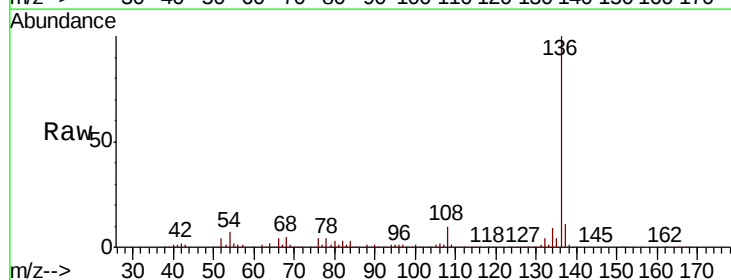
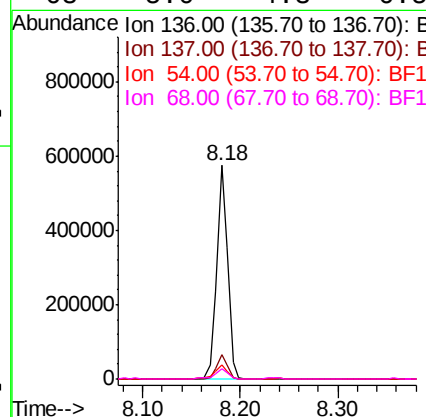
RT: 8.18 min Scan# 1036

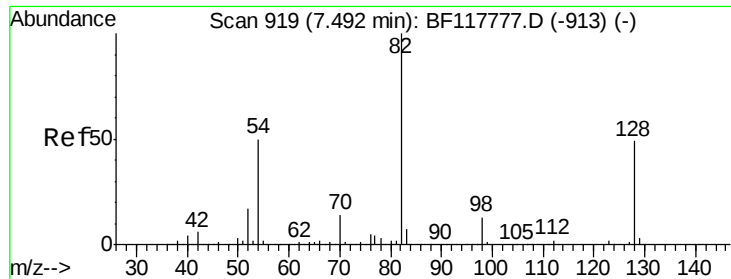
Delta R.T. 0.00 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Tgt Ion:	136	Resp:	447535
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.0	13.4
54	6.6	5.4	8.2
68	5.0	4.3	6.5





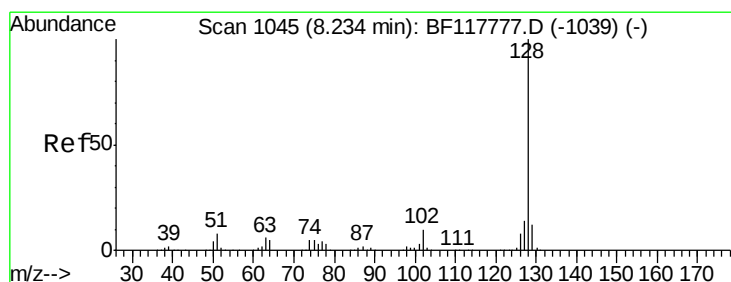
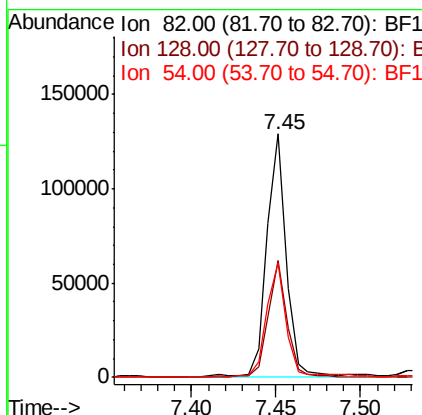
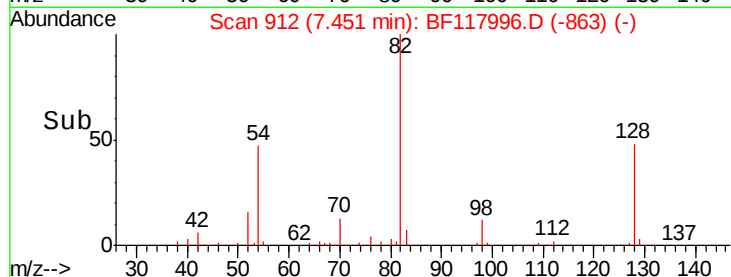
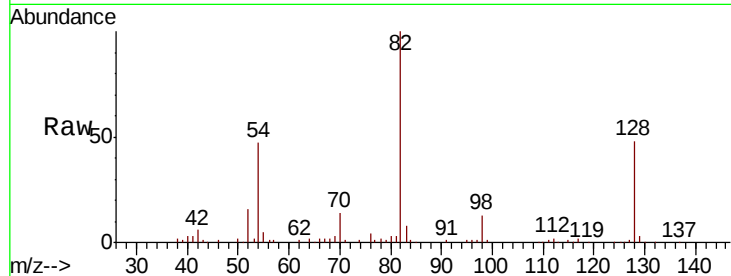
#23
Nitrobenzene-d5
Concen: 13.781 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.8	38.9	58.3
54	47.0	39.8	59.6

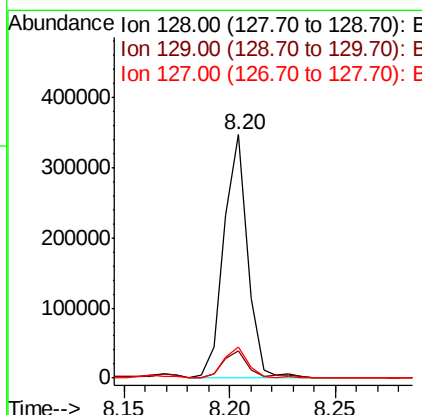
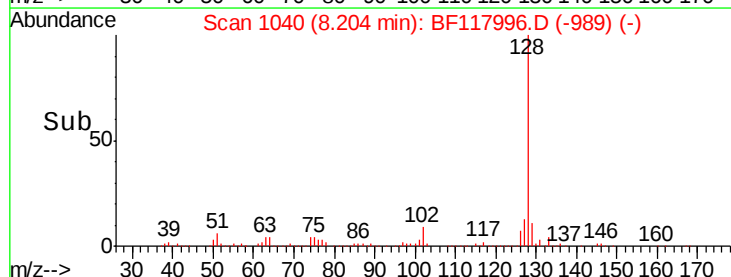
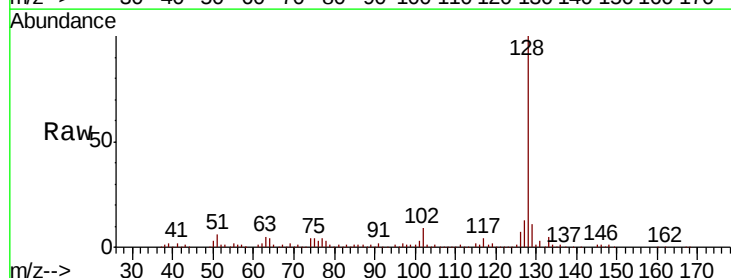
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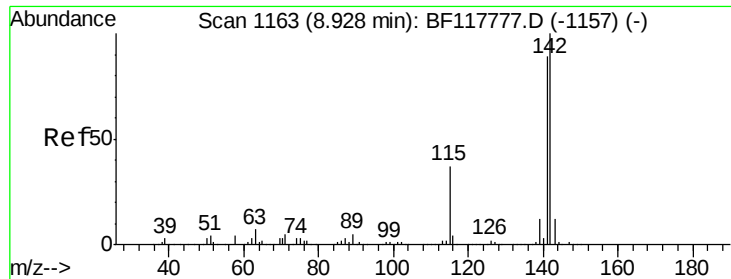
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#31
Naphthalene
Concen: 12.794 ng
RT: 8.20 min Scan# 1040
Delta R.T. 0.00 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.5	14.3
127	13.0	11.3	16.9





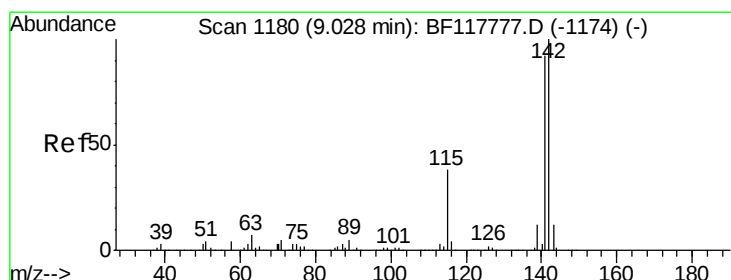
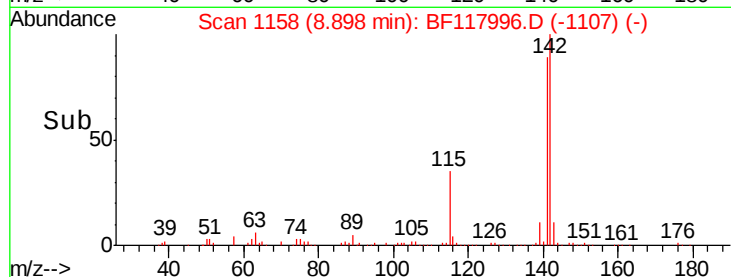
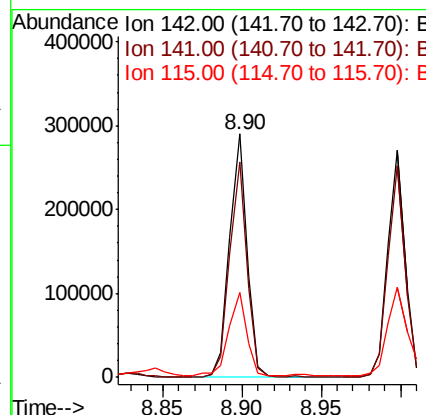
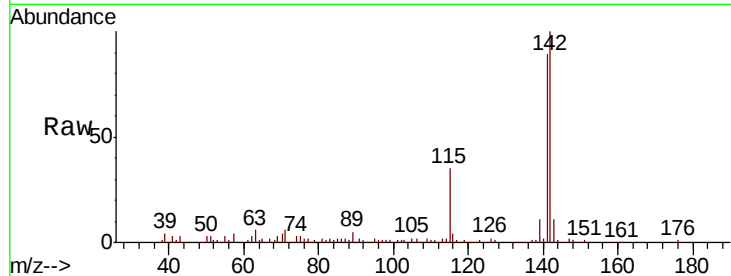
#37
2-Methylnaphthalene
Concen: 15.777 ng
RT: 8.90 min Scan# 1158
Delta R.T. 0.00 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

Tot Ion	Ratio	Resp	Lower	Upper
142	100	222410		
141	88.7	71.1	106.7	
115	34.9	29.2	43.8	

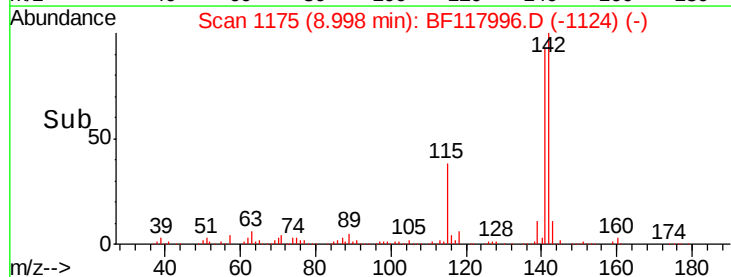
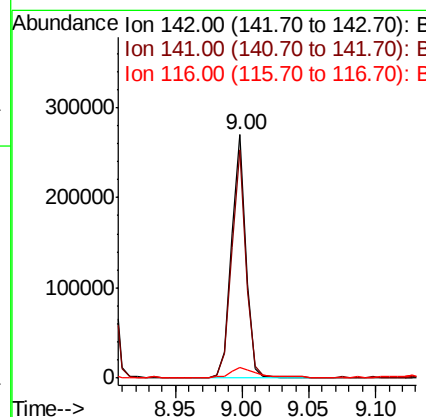
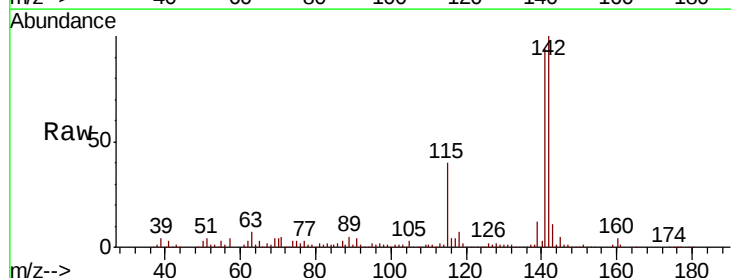
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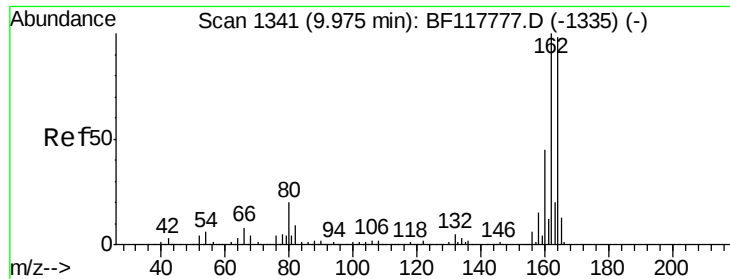
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#38
1-Methylnaphthalene
Concen: 15.561 ng
RT: 9.00 min Scan# 1175
Delta R.T. 0.00 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	207380		
141	93.7	73.5	110.3	
116	4.2	3.2	4.8	





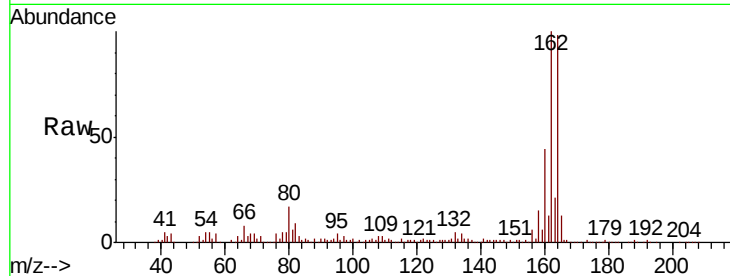
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.95 min Scan# 1336
Delta R.T. 0.00 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

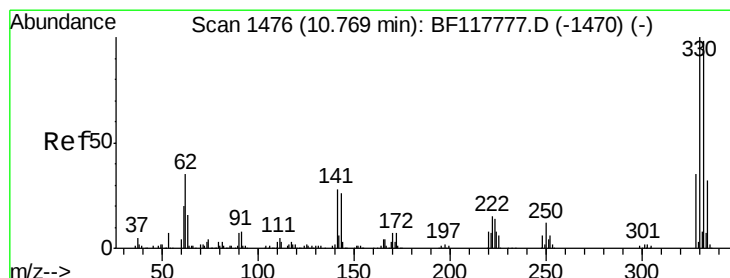
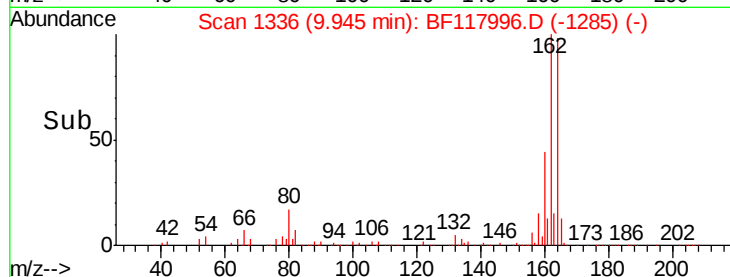
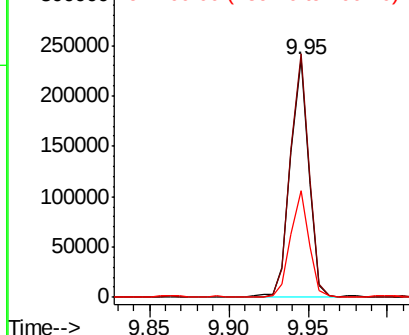
Tot Ion	Ratio	Lower	Upper
164	100		
162	102.2	81.3	121.9
160	44.6	36.6	55.0

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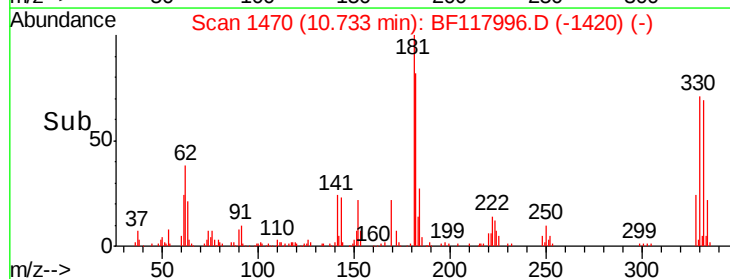
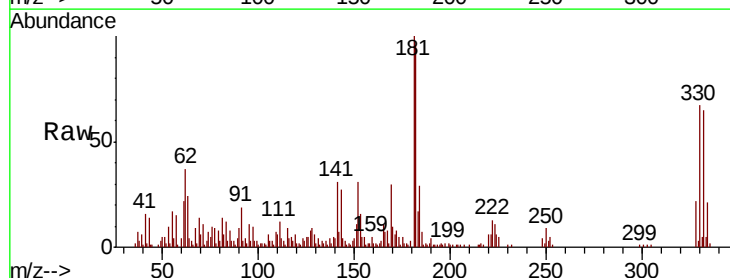
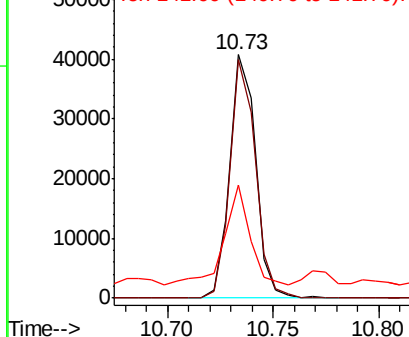
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

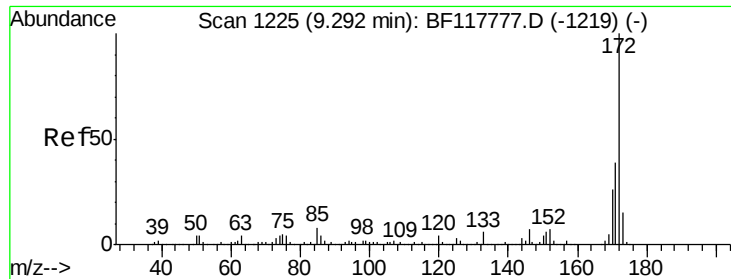


#42
2,4,6-Tribromophenol
Concen: 16.895 ng
RT: 10.73 min Scan# 1470
Delta R.T. -0.01 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.7	115.1
141	40.3	27.7	41.5

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





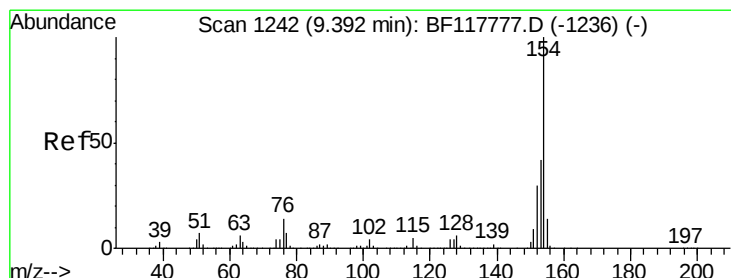
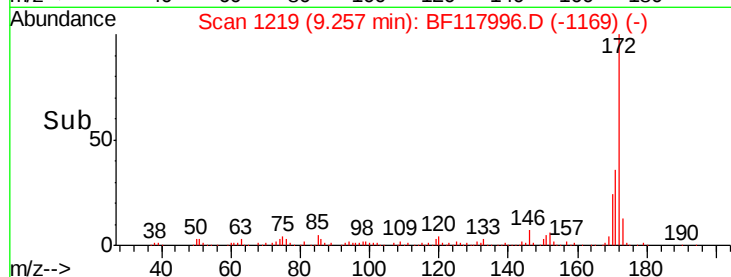
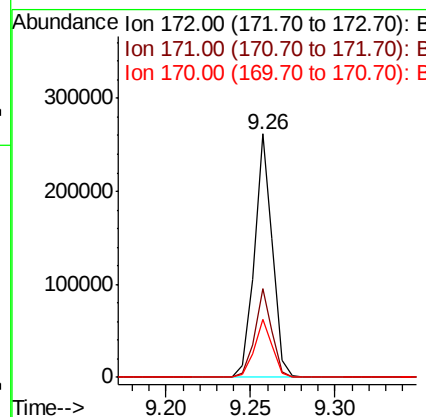
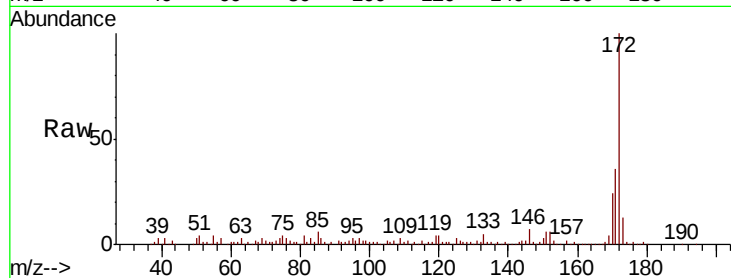
#45
2-Fluorobiphenyl
Concen: 18.219 ng
RT: 9.26 min Scan# 1219
Delta R.T. -0.01 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.9	46.3
170	23.6	21.0	31.4

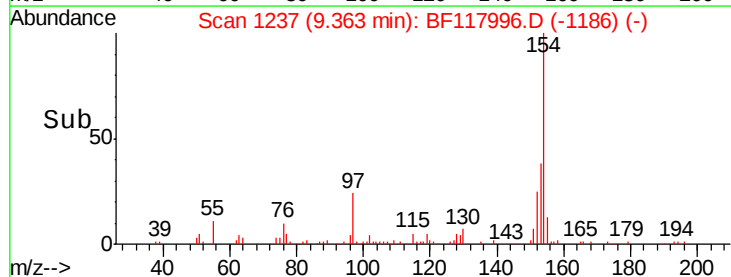
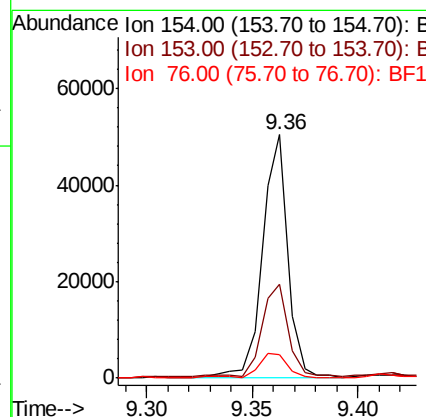
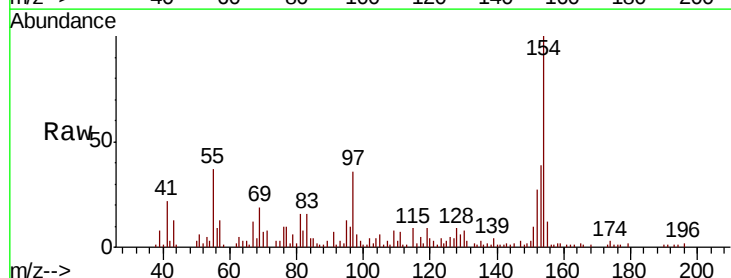
Manual Integrations
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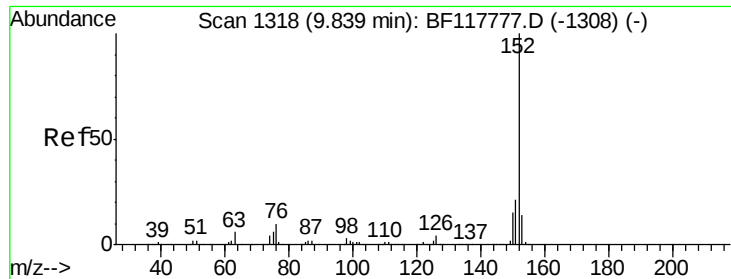
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#46
1,1'-Biphenyl
Concen: 2.979 ng
RT: 9.36 min Scan# 1237
Delta R.T. 0.00 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.7	21.9	61.9
76	9.7	0.0	33.6





#49

Acenaphthylene

Concen: 12.242 ng

RT: 9.80 min Scan# 1312

Delta R.T. 0.00 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Instrument :

BNA_F

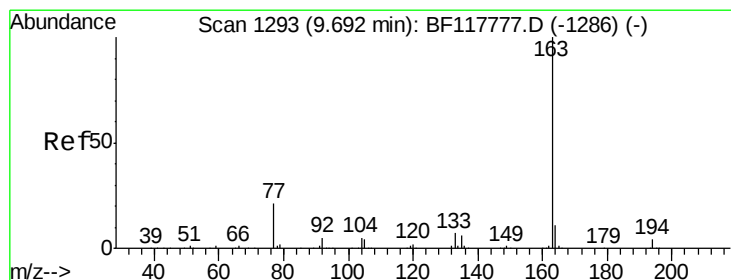
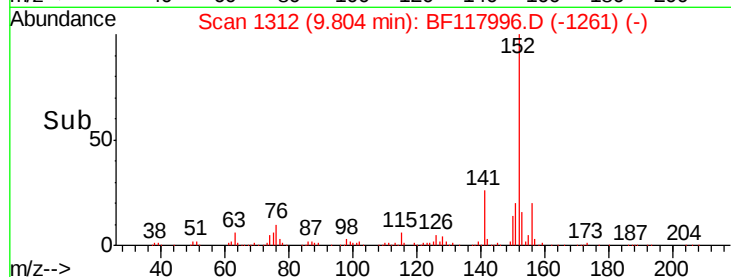
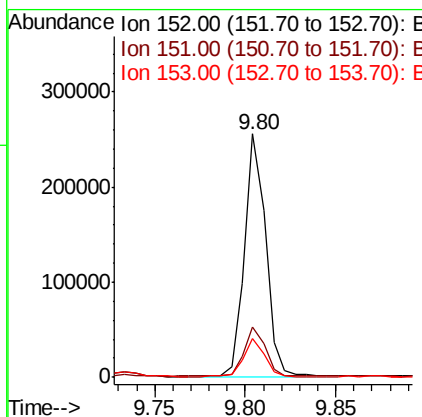
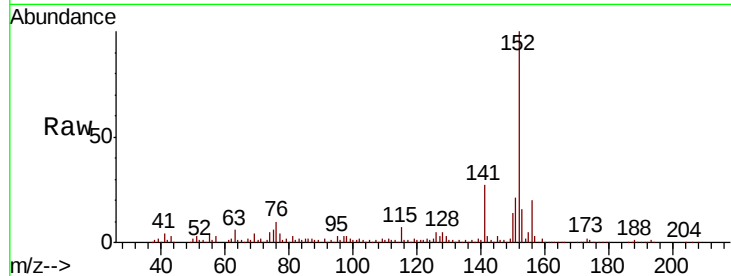
ClientSampleId :

EO-02-112219

Tot Ion	Ratio	Resp	Lower	Upper
152	100	209190		
151	20.7		17.0	25.6
153	16.1		11.0	16.6

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#50

Dimethylphthalate

Concen: 2.018 ng

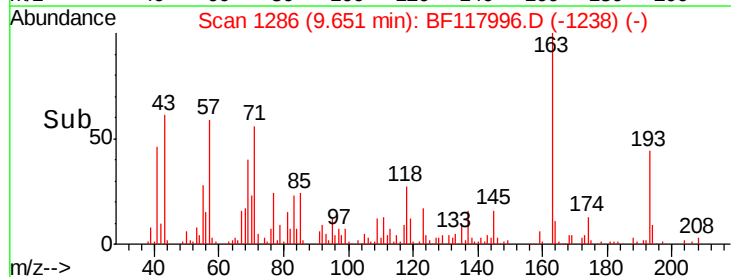
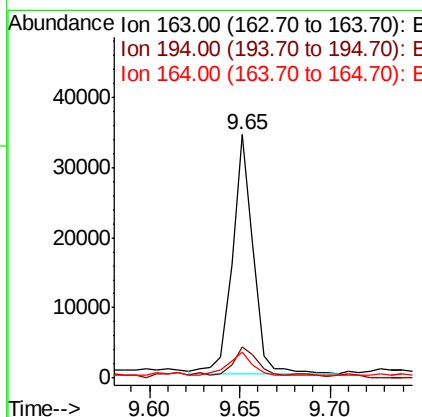
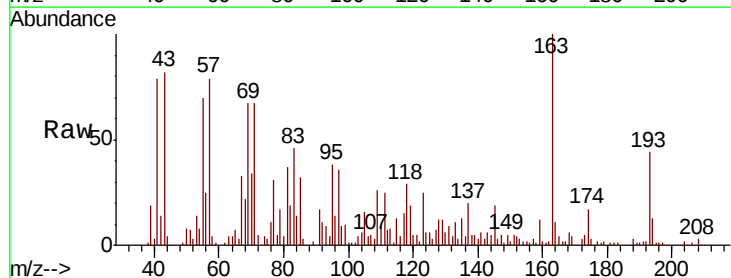
RT: 9.65 min Scan# 1286

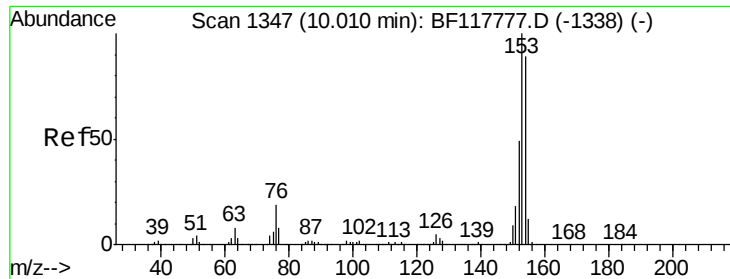
Delta R.T. -0.02 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	27178		
194	12.9		3.3	4.9#
164	10.8		8.7	13.1





#52

Acenaphthene

Concen: 15.444 ng

RT: 9.98 min Scan# 1342

Delta R.T. 0.00 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Instrument :

BNA_F

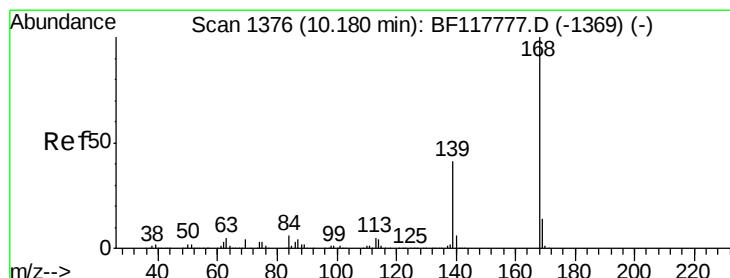
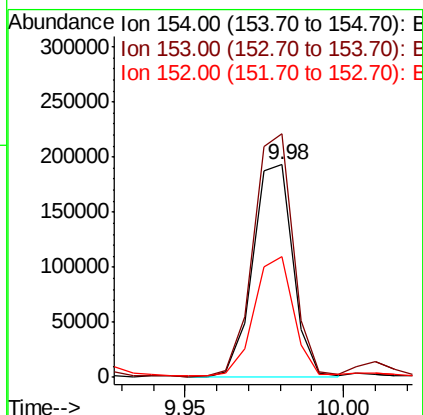
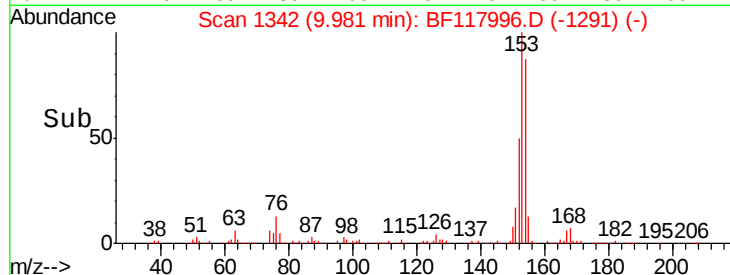
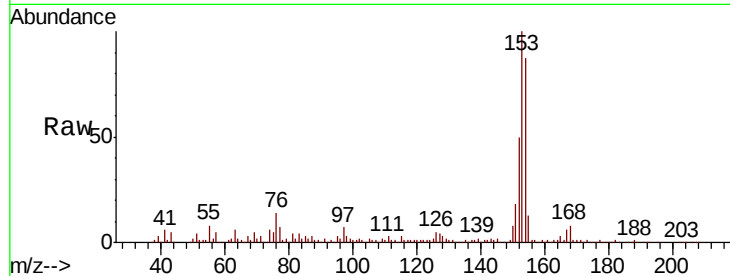
ClientSampleId :

EO-02-112219

Tot Ion:	154	Resp:	169063
Ion Ratio	Lower	Upper	
154	100		
153	114.7	90.1	135.1
152	57.2	44.0	66.0

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#55

Dibenzofuran

Concen: 9.732 ng

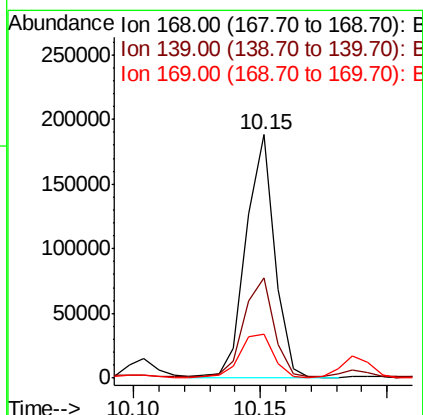
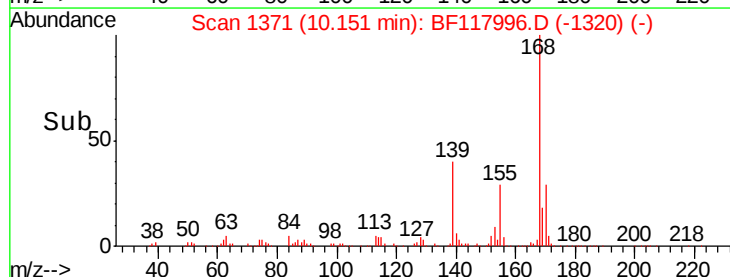
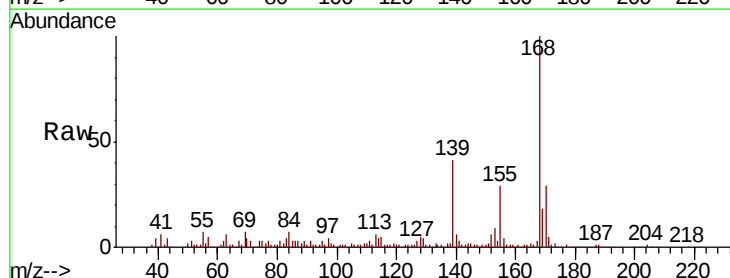
RT: 10.15 min Scan# 1371

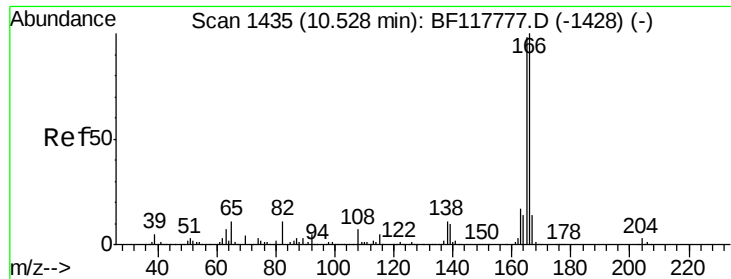
Delta R.T. 0.00 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Tgt Ion:	168	Resp:	147517
Ion Ratio	Lower	Upper	
168	100		
139	41.1	33.0	49.6
169	17.8	11.5	17.3#





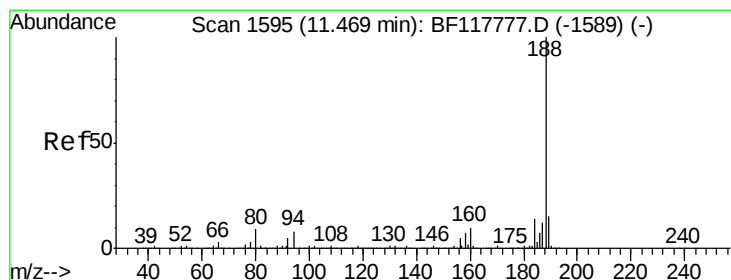
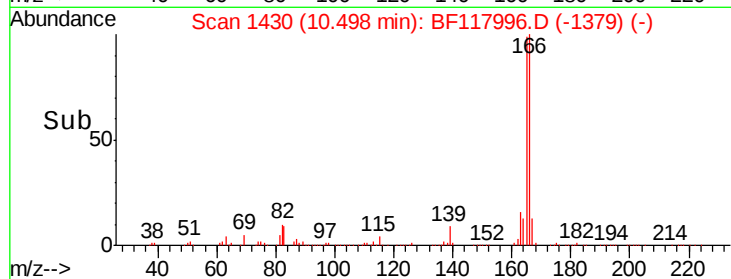
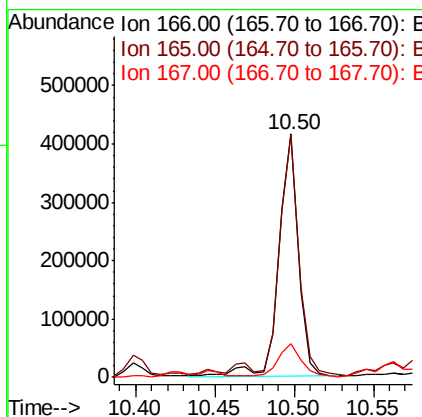
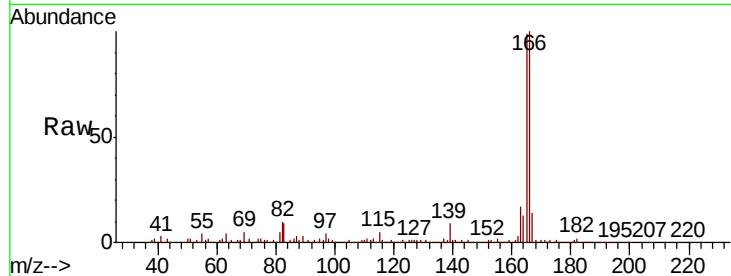
#58
 Fluorene
 Concen: 30.230 ng
 RT: 10.50 min Scan# 1430
 Delta R.T. 0.00 min
 Lab File: BF117996.D
 Acq: 26 Nov 2019 5:29

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-112219

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		355104		
165	99.4	78.4	117.6		
167	14.0	11.0	16.4		

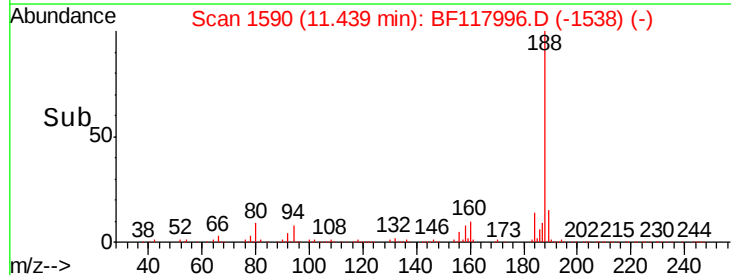
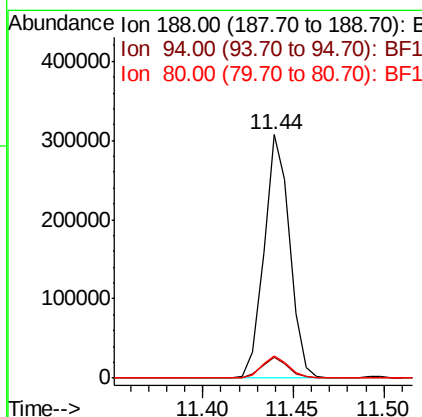
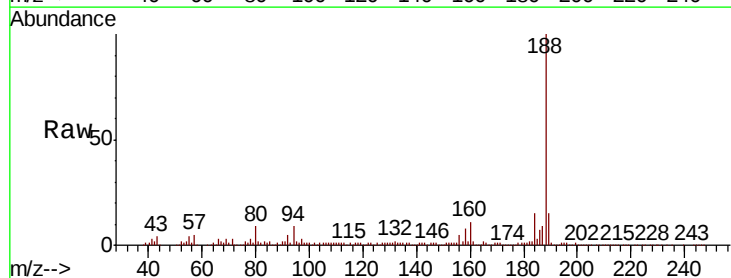
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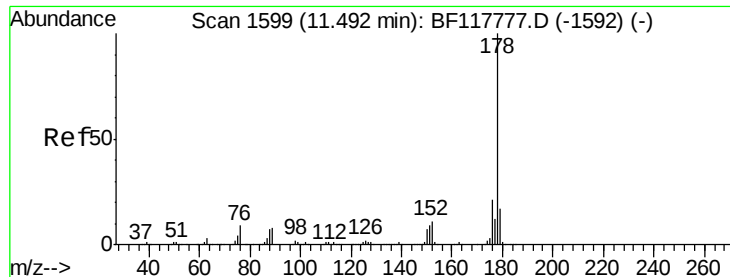
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: BF117996.D
 Acq: 26 Nov 2019 5:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		300831		
94	8.6	6.6	10.0		
80	9.2	7.2	10.8		





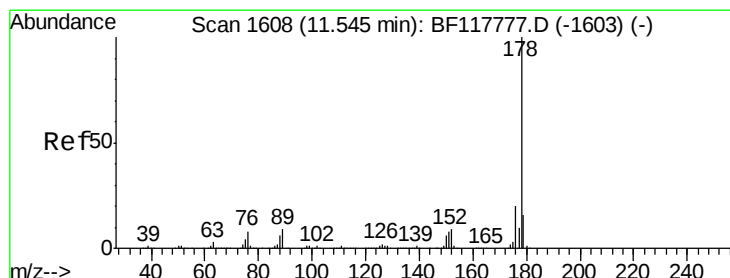
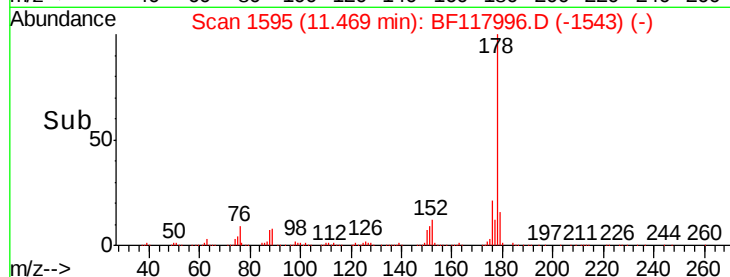
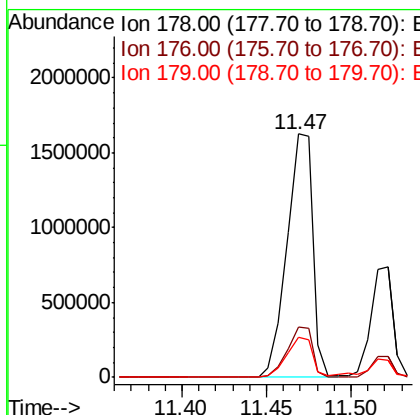
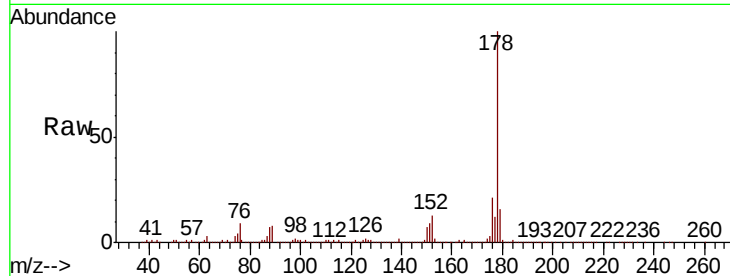
#71
Phenanthrene
Concen: 113.452 ng
RT: 11.47 min Scan# 1595
Delta R.T. 0.01 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.6	16.6	25.0
179	16.3	13.2	19.8

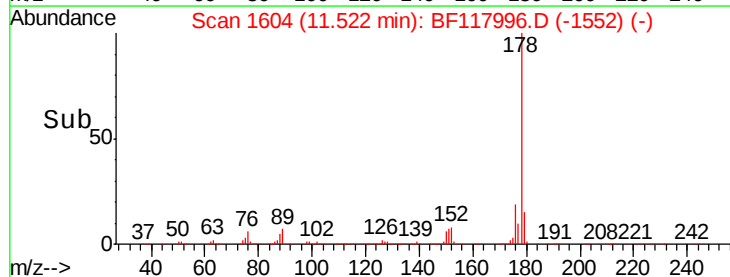
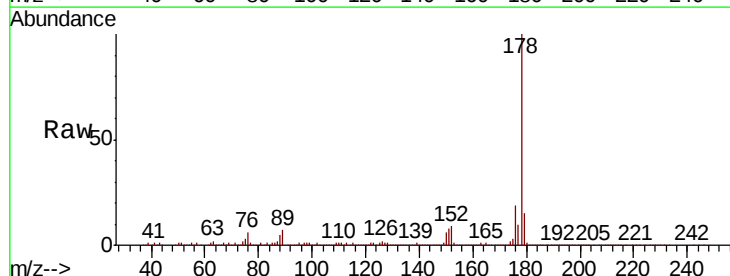
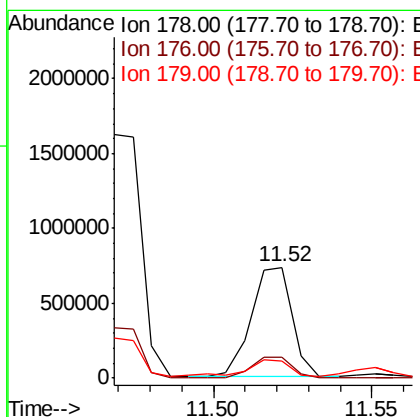
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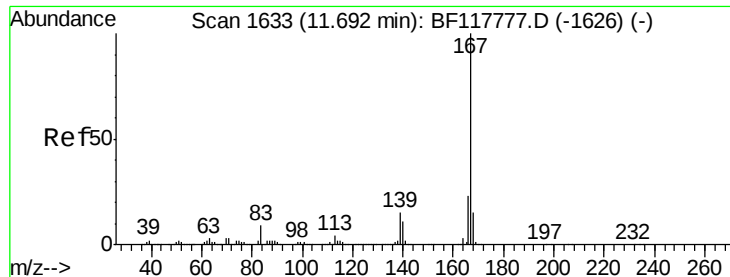
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#72
Anthracene
Concen: 43.685 ng
RT: 11.52 min Scan# 1604
Delta R.T. 0.01 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	16.1	24.1
179	15.4	13.0	19.4





#73

Carbazole

Concen: 7.160 ng

RT: 11.67 min Scan# 1629

Delta R.T. 0.00 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Instrument :

BNA_F

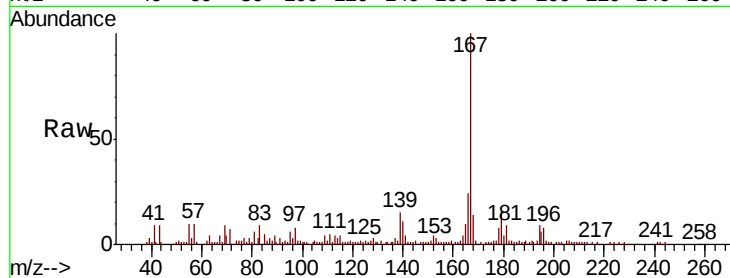
ClientSampleId :

EO-02-112219

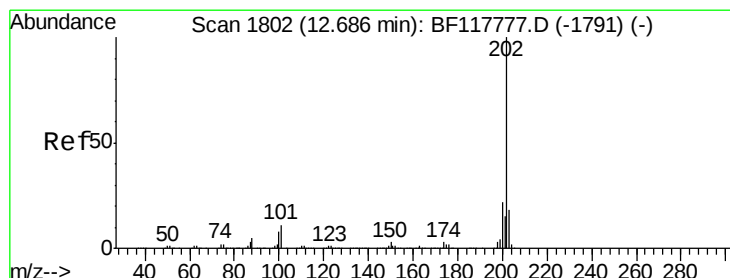
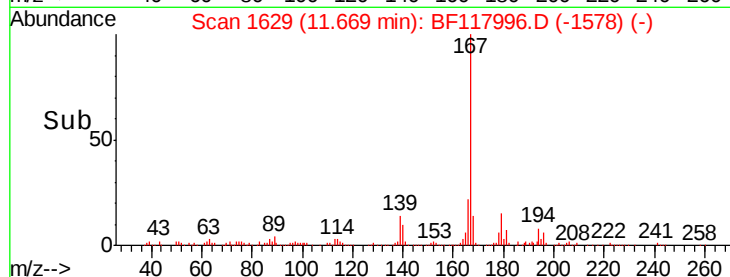
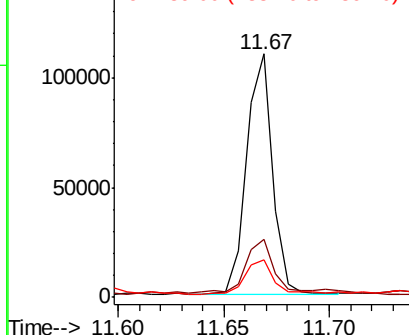
Tot Ion:	167	Resp:	93826
Ion Ratio	Lower	Upper	
167	100		
166	23.8	18.0	27.0
139	15.4	11.7	17.5

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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: 125.288 ng

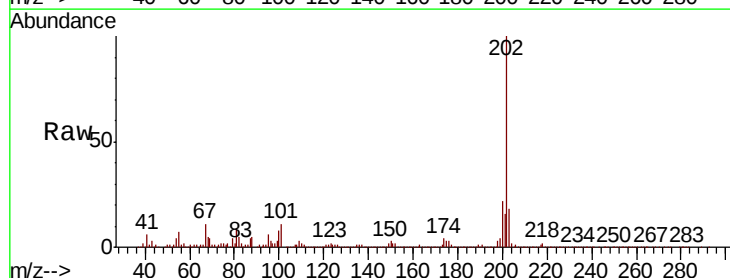
RT: 12.67 min Scan# 1800

Delta R.T. 0.02 min

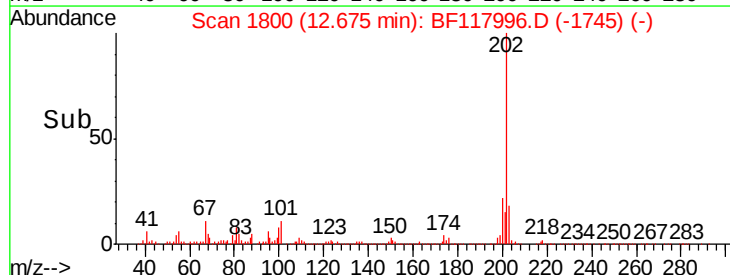
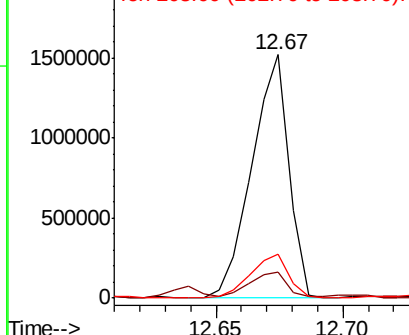
Lab File: BF117996.D

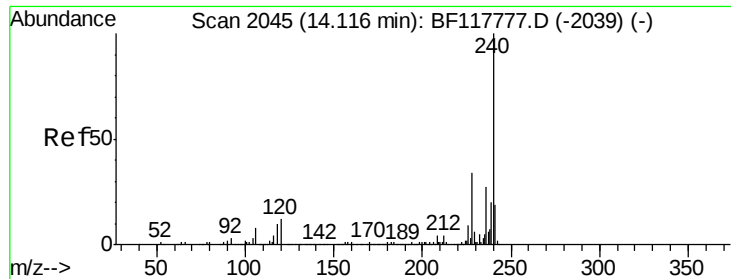
Acq: 26 Nov 2019 5:29

Tgt Ion:	202	Resp:	1540695
Ion Ratio	Lower	Upper	
202	100		
101	10.9	0.0	31.1
203	18.2	0.0	38.2



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: 14.10 min Scan# 2042

Delta R.T. 0.01 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Instrument :

BNA_F

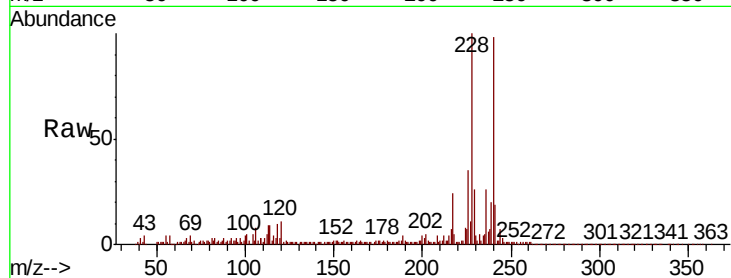
ClientSampleId :

EO-02-112219

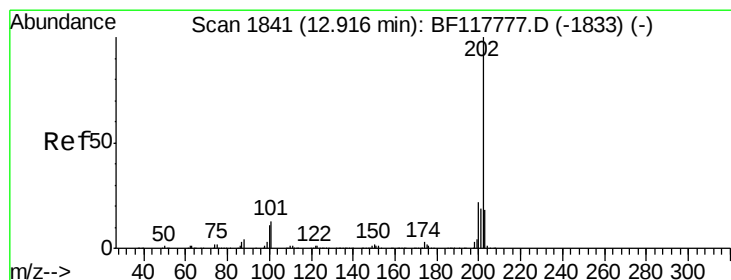
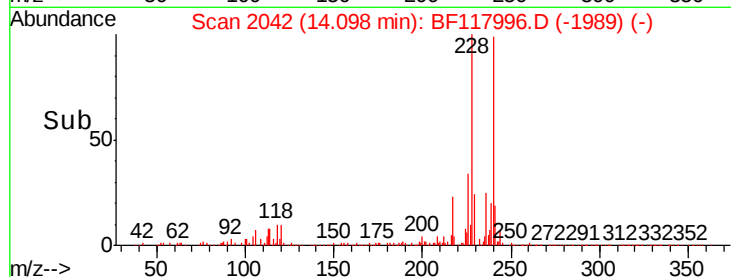
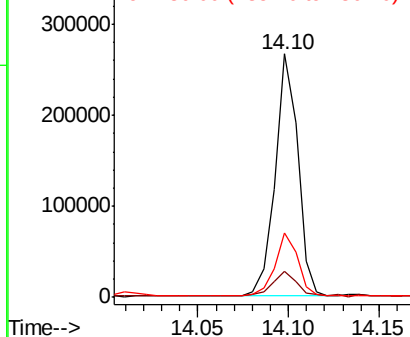
Tot Ion:	240	Resp:	231514
Ion Ratio	Lower	Upper	
240	100		
120	10.8	9.5	14.3
236	26.5	21.3	31.9

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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

Pyrene

Concen: 93.930 ng

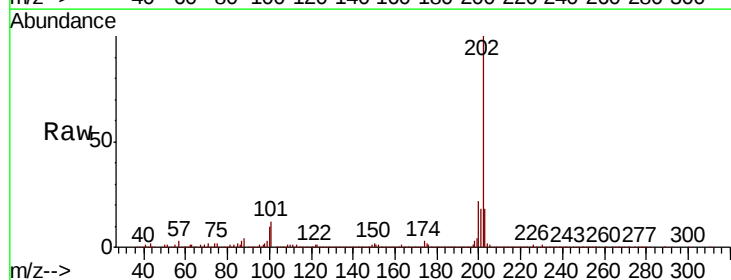
RT: 12.91 min Scan# 1840

Delta R.T. 0.02 min

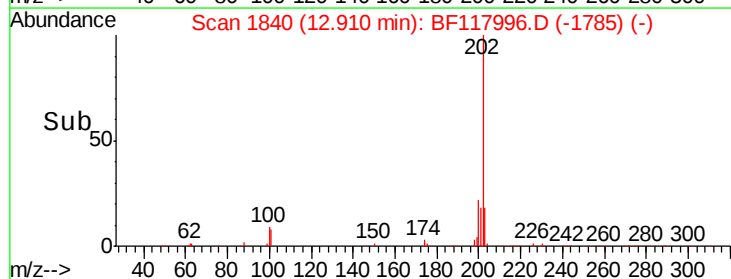
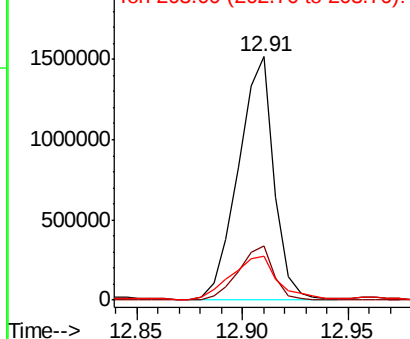
Lab File: BF117996.D

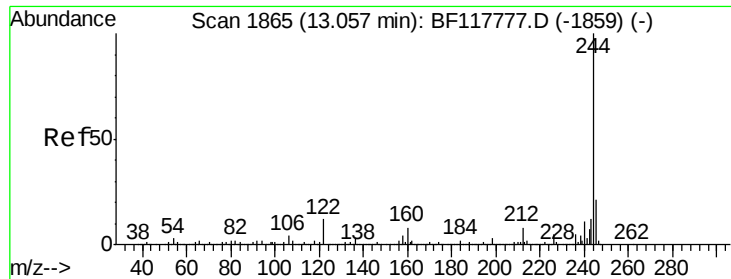
Acq: 26 Nov 2019 5:29

Tgt Ion:	202	Resp:	1757430
Ion Ratio	Lower	Upper	
202	100		
200	22.2	17.8	26.8
203	18.2	14.6	22.0



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





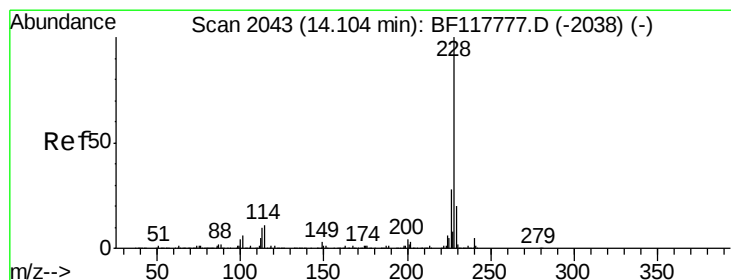
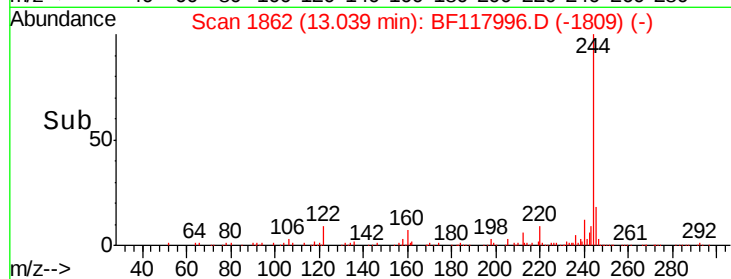
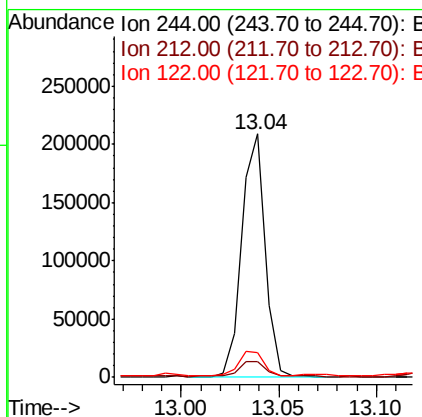
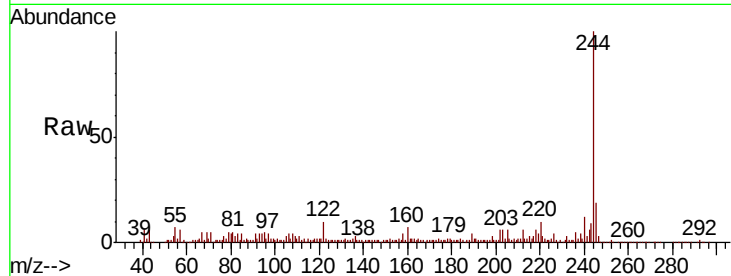
#79
 Terphenyl-d14
 Concen: 13.616 ng
 RT: 13.04 min Scan# 1862
 Delta R.T. 0.01 min
 Lab File: BF117996.D
 Acq: 26 Nov 2019 5:29

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-112219

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	6.3	9.5
122	10.3	9.4	14.2

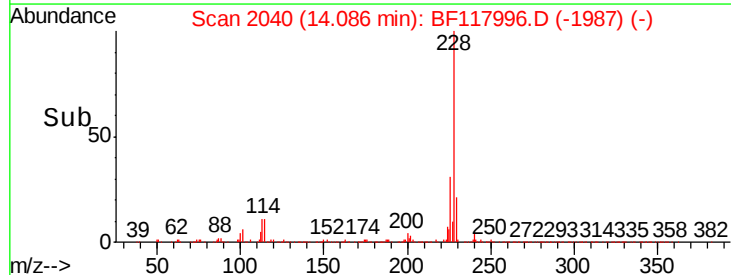
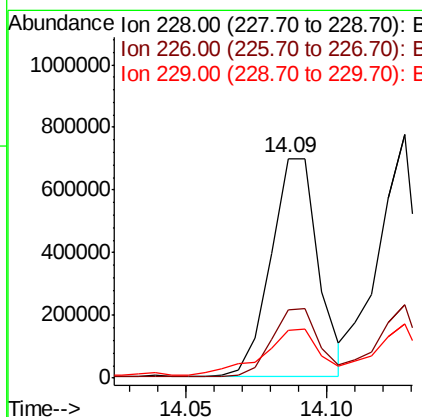
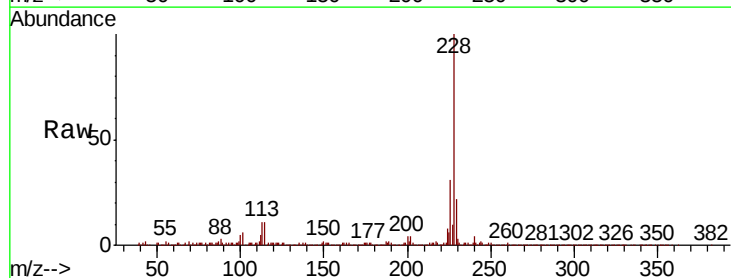
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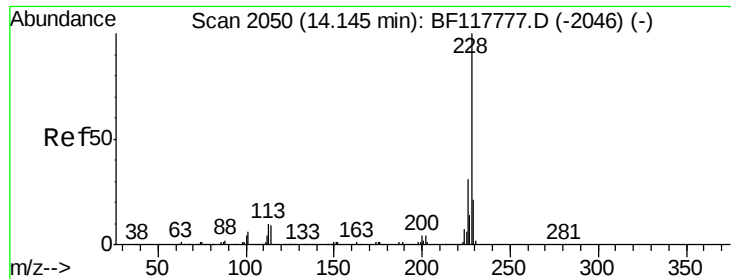
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#81
 Benzo(a)anthracene
 Concen: 53.263 ng
 RT: 14.09 min Scan# 2040
 Delta R.T. 0.01 min
 Lab File: BF117996.D
 Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	22.2	33.2
229	21.8	15.9	23.9





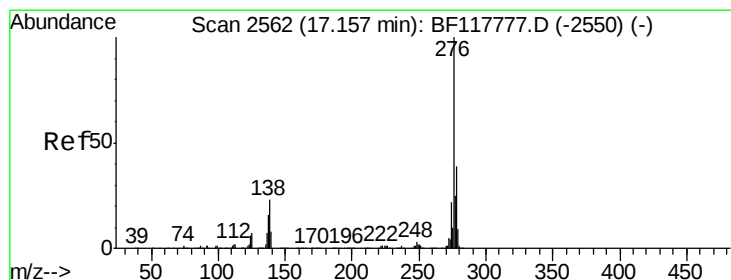
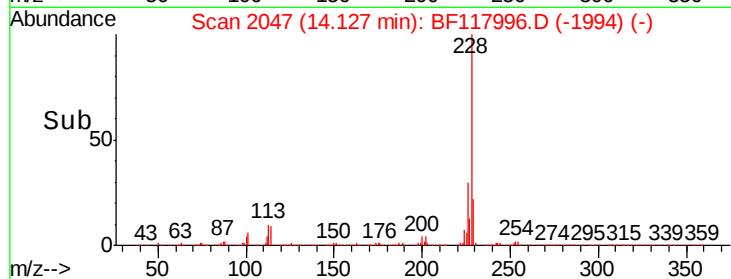
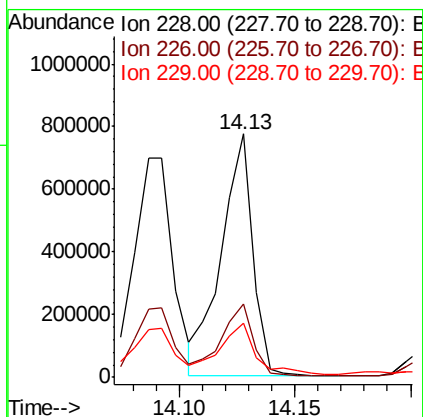
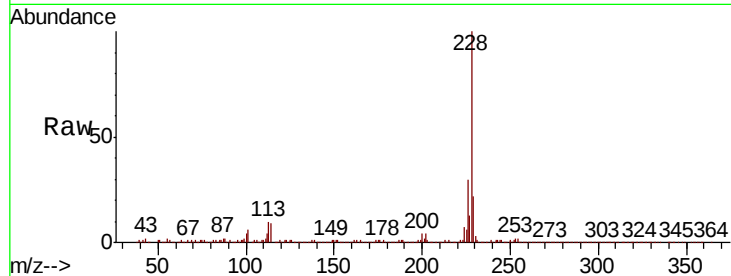
#83
Chrysene
Concen: 49.491 ng
RT: 14.13 min Scan# 2047
Delta R.T. 0.01 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.0	37.4
229	22.3	16.6	25.0

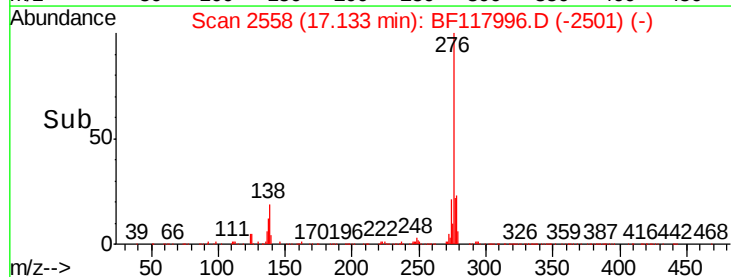
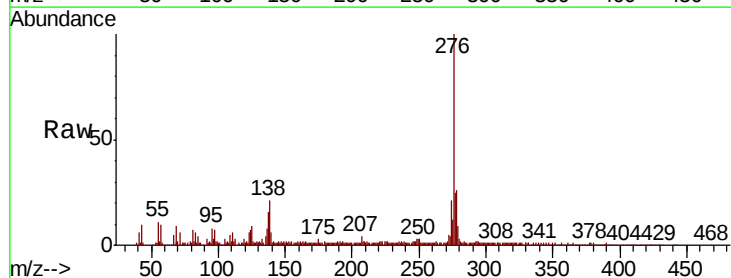
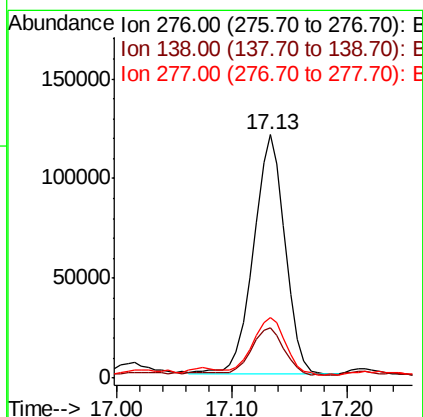
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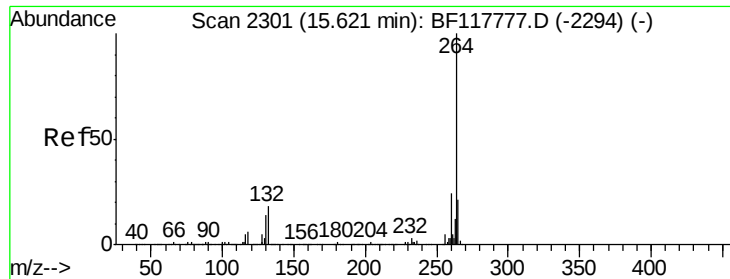
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#86
Indeno(1,2,3-cd)pyrene
Concen: 18.028 ng
RT: 17.13 min Scan# 2558
Delta R.T. 0.04 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.3	20.9	31.3
277	25.0	20.3	30.5





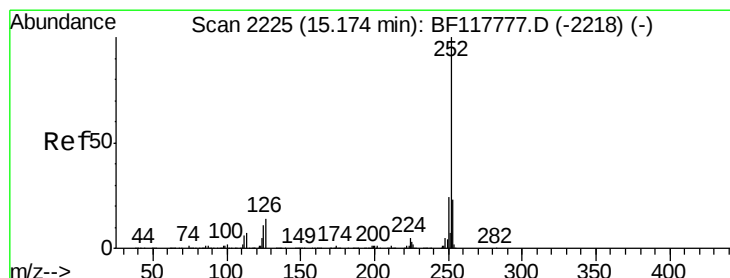
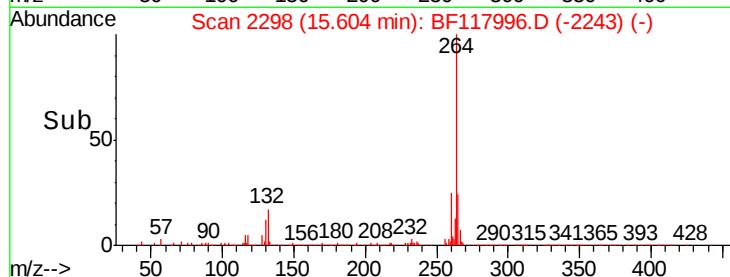
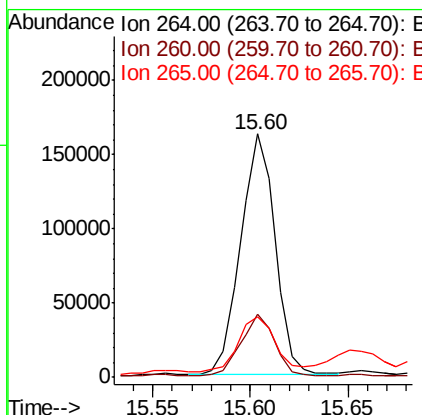
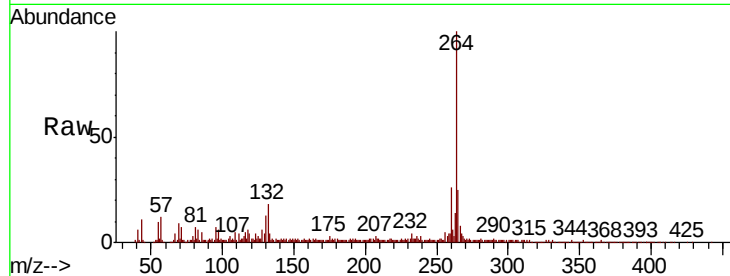
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.60 min Scan# 2298
Delta R.T. 0.02 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.8	19.4	29.0
265	25.1	17.1	25.7

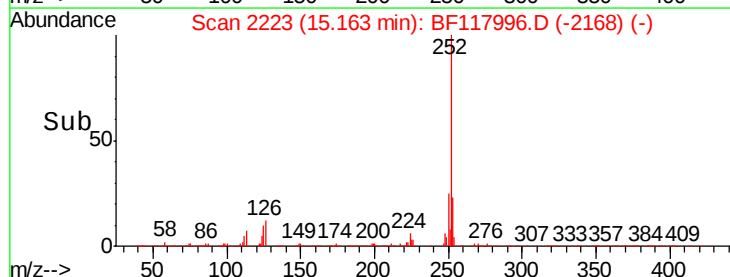
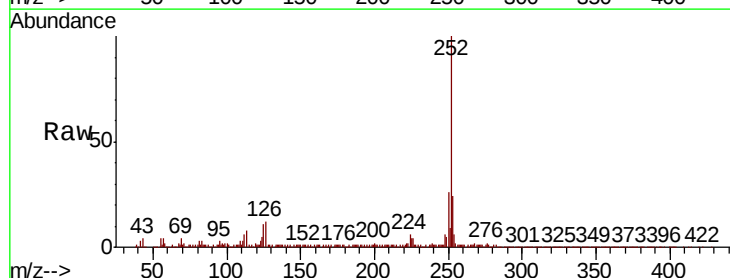
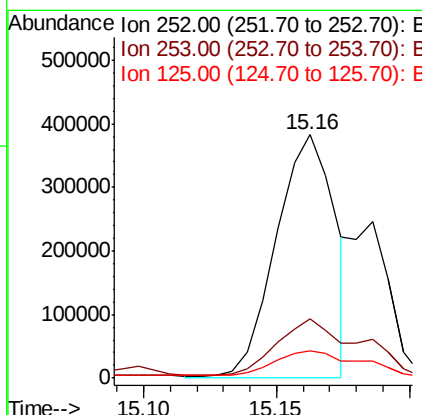
Manual Integrations
APPROVED

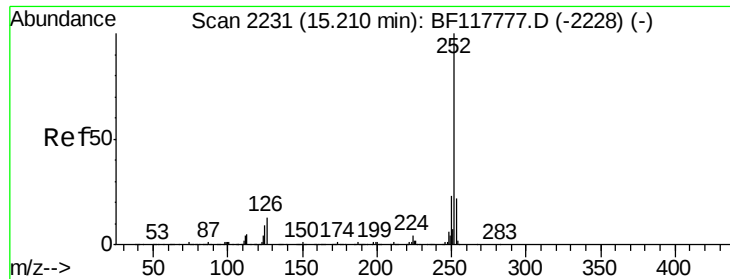
mohammad
11/26/2019 12:49:35 PM



#88
Benzo(b)fluoranthene
Concen: 45.655 ng m
RT: 15.16 min Scan# 2223
Delta R.T. 0.02 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.0	27.0
125	11.0	8.6	13.0





#89

Benzo(k)fluoranthene

Concen: 19.681 ng

RT: 15.19 min Scan# 2227

Delta R.T. 0.01 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Instrument :

BNA_F

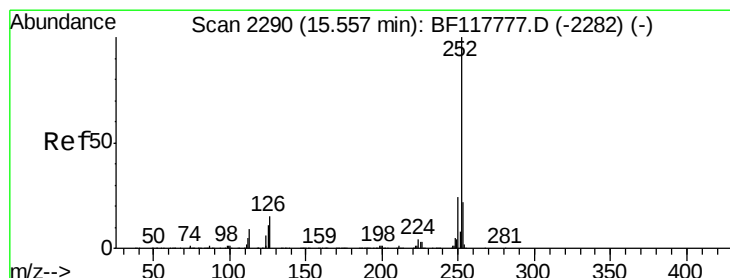
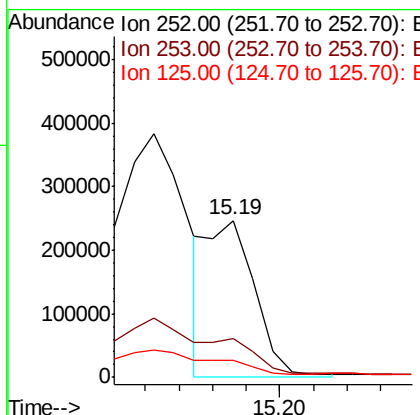
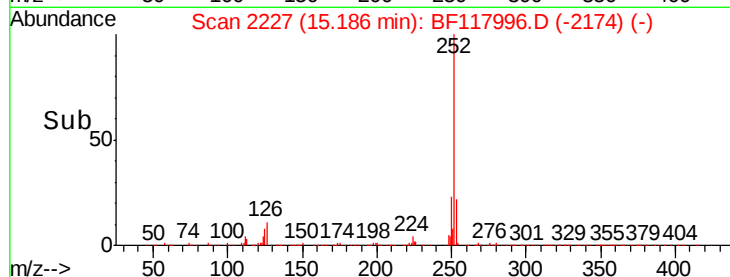
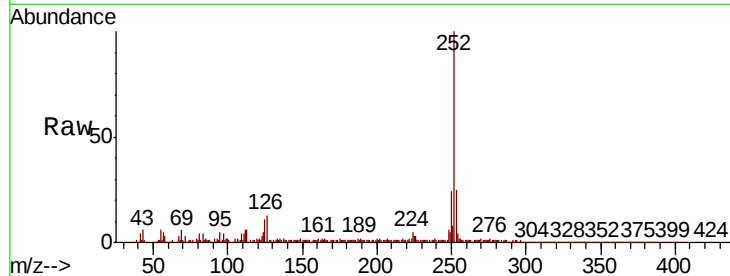
ClientSampleId :

EO-02-112219

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.5	26.3
125	10.5	7.9	11.9

Manual Integrations
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#90

Benzo(a)pyrene

Concen: 43.174 ng

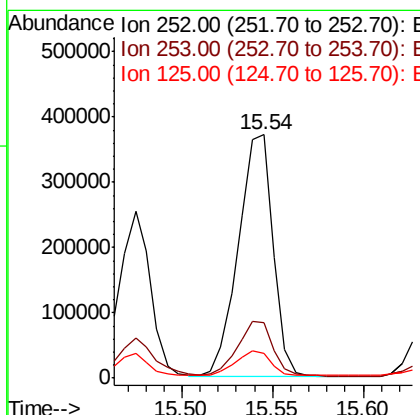
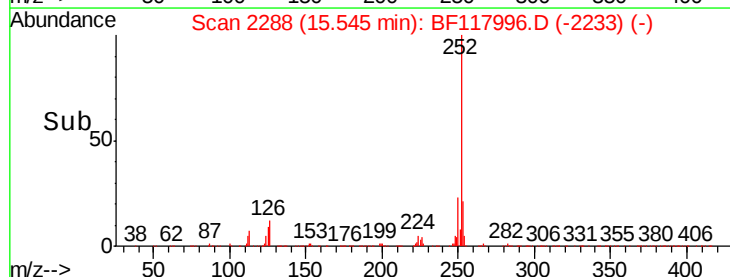
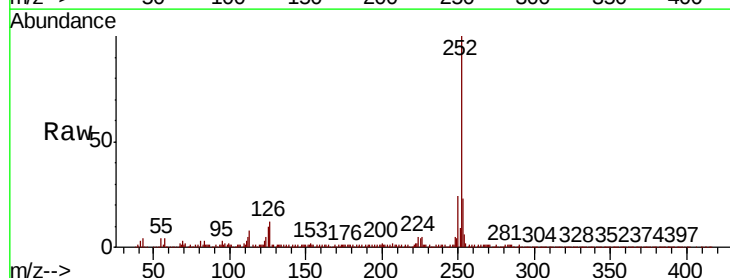
RT: 15.54 min Scan# 2288

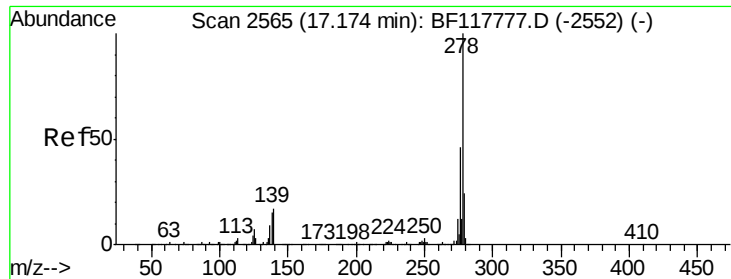
Delta R.T. 0.02 min

Lab File: BF117996.D

Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	10.4	9.2	13.8





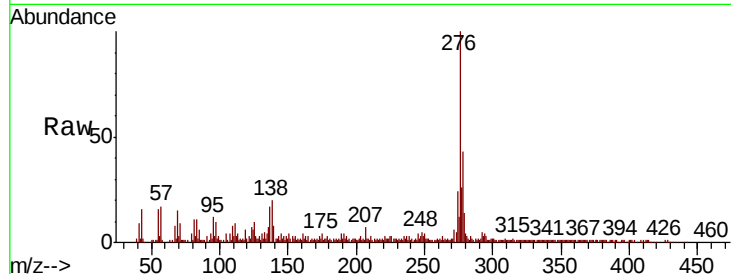
#91
Dibenzo(a,h)anthracene
Concen: 7.180 ng
RT: 17.14 min Scan# 2560
Delta R.T. 0.02 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Instrument :
BNA_F
ClientSampleId :
EO-02-112219

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.5	13.8	20.8
279	32.1	19.6	29.4

Manual Integrations
APPROVED

mohammad
11/26/2019 12:49:35 PM

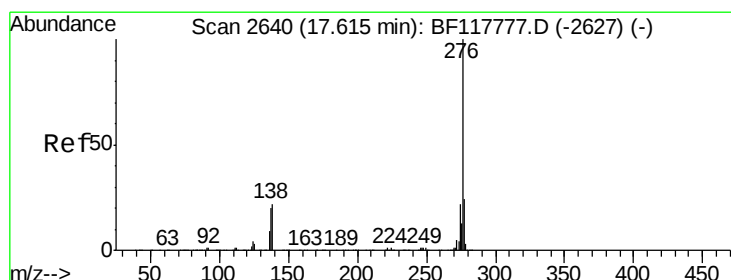
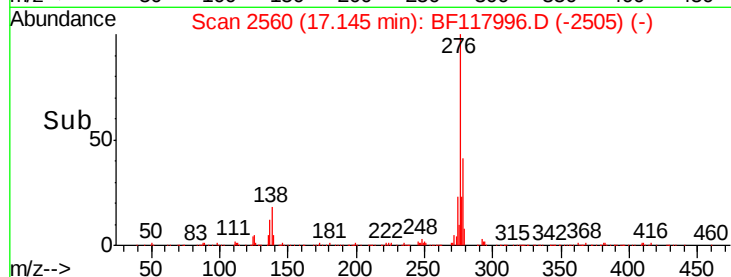
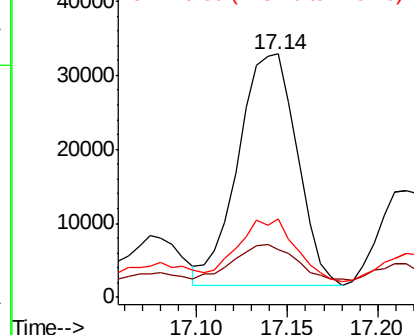


Abundance

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: 21.895 ng
RT: 17.60 min Scan# 2637
Delta R.T. 0.04 min
Lab File: BF117996.D
Acq: 26 Nov 2019 5:29

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.9	28.3
138	20.4	17.4	26.2

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

