

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
 Data File : BF113579.D
 Acq On : 4 Apr 2019 9:09
 Operator : JU/SJ
 Sample : K2197-03DL 25X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-BDL

Manual Integrations
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 4/4/2019 10:58:21 AM

Quant Time: Apr 04 10:31:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	97589	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	340824	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	147748	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	308363	20.00	ng	0.00
76) Chrysene-d12	13.84	240	272403	20.00	ng	0.00
87) Perylene-d12	15.26	264	203825	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	20363	3.56	ng	0.02
7) Phenol-d6	6.35	99	30523	4.33	ng	0.00
23) Nitrobenzene-d5	7.26	82	13392	2.30	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	7470	4.21	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	33308	3.63	ng	0.00
79) Terphenyl-d14	12.79	244	45104	3.37	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.99	128	292188	17.694	ng	97
37) 2-Methylnaphthalene	8.69	142	53486	4.925	ng	97
38) 1-Methylnaphthalene	8.78	142	29645	2.831	ng	95
52) Acenaphthene	9.76	154	98023	11.408	ng	98
55) Dibenzofuran	9.93	168	144392	11.456	ng	96
58) Fluorene	10.27	166	161171	16.167	ng	98
71) Phenanthrene	11.23	178	970449	63.334	ng	99
72) Anthracene	11.28	178	316977	20.332	ng	99
73) Carbazole	11.44	167	123510	8.471	ng	97
75) Fluoranthene	12.42	202	1054194	64.204	ng	99
78) Pyrene	12.65	202	840461	40.549	ng	99
81) Benzo(a)anthracene	13.83	228	377516	24.025	ng	100
83) Chrysene	13.87	228	283320	17.786	ng	97
86) Indeno(1,2,3-cd)pyrene	16.62	276	109827	7.468	ng	96
88) Benzo(b)fluoranthene	14.86	252	305163m	24.459	ng	
89) Benzo(k)fluoranthene	14.88	252	94296m	8.421	ng	
90) Benzo(a)pyrene	15.20	252	214211	19.321	ng	98
91) Dibenzo(a,h)anthracene	16.63	278	29743	2.869	ng	# 86
92) Benzo(g,h,i)perylene	17.03	276	99722	9.424	ng	98

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

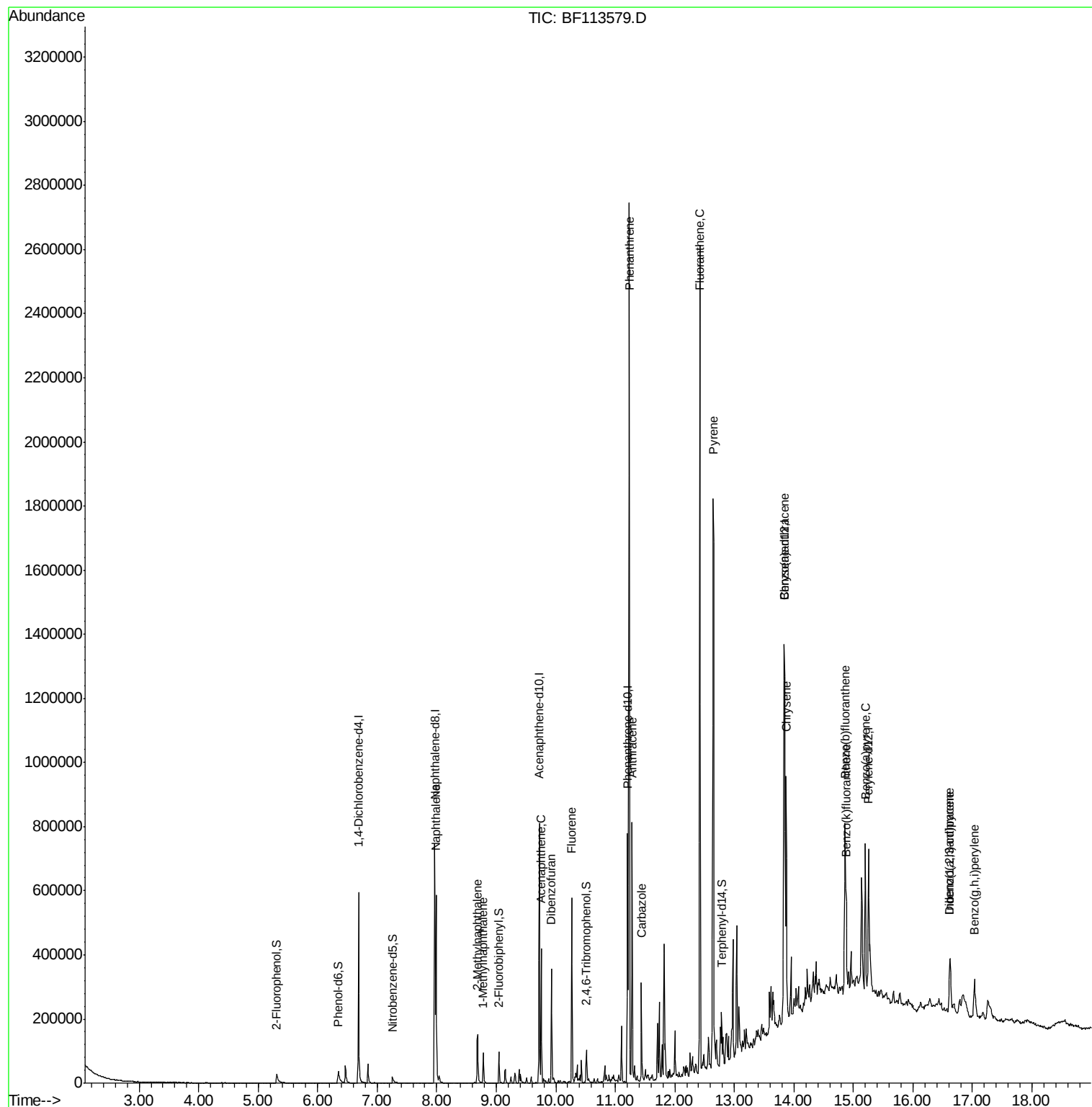
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
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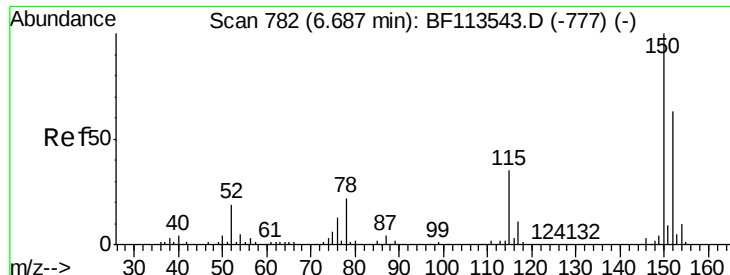
Instrument :
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ClientSampleId :
CL-02-040219-BDL

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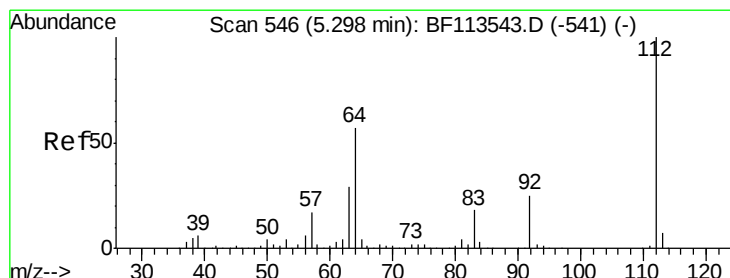
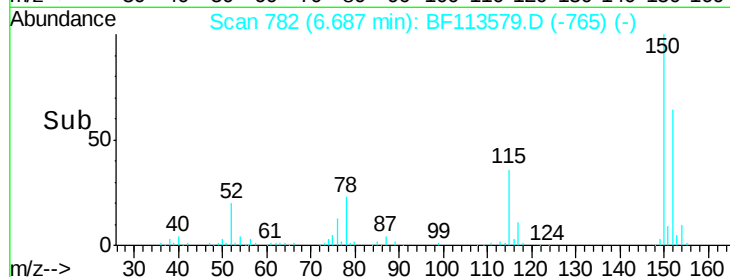
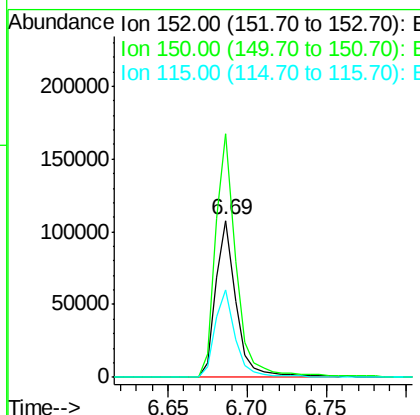
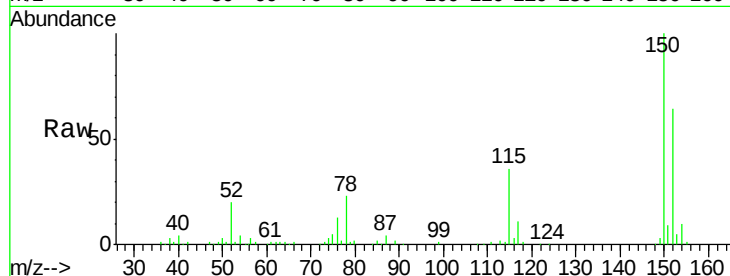
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 782
 Delta R.T. 0.00 min
 Lab File: BF113579.D
 Acq: 4 Apr 2019 9:09

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-BDL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.7	187.1
115	55.9	46.0	69.0

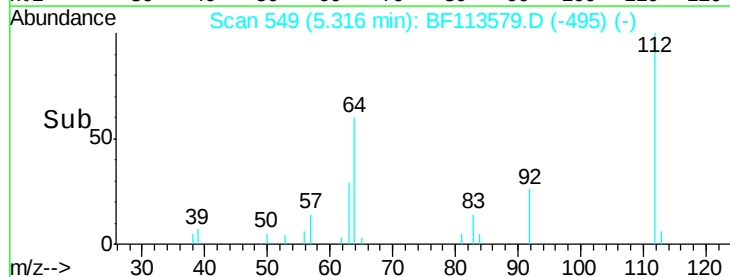
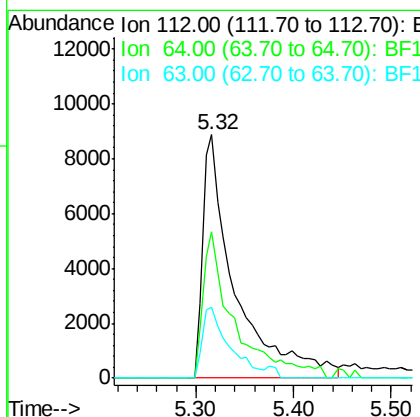
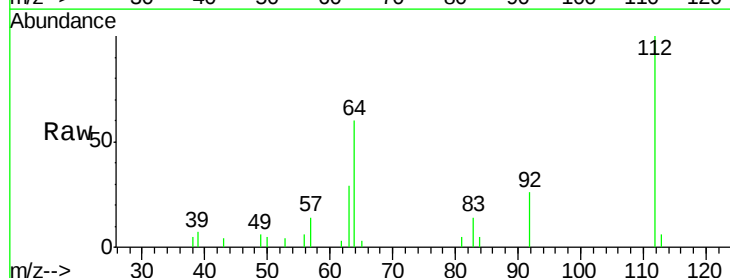
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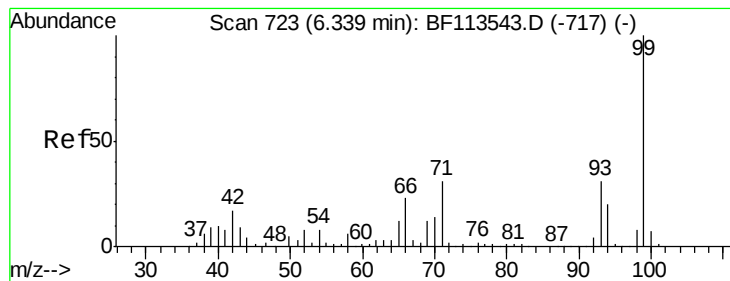
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#5
 2-Fluorophenol
 Concen: 3.558 ng
 RT: 5.32 min Scan# 549
 Delta R.T. 0.02 min
 Lab File: BF113579.D
 Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.3	49.2	73.8
63	29.3	24.9	37.3





#7

Phenol-d6

Concen: 4.327 ng

RT: 6.35 min Scan# 724

Delta R.T. 0.01 min

Lab File: BF113579.D

Acq: 4 Apr 2019 9:09

Instrument :

BNA_F

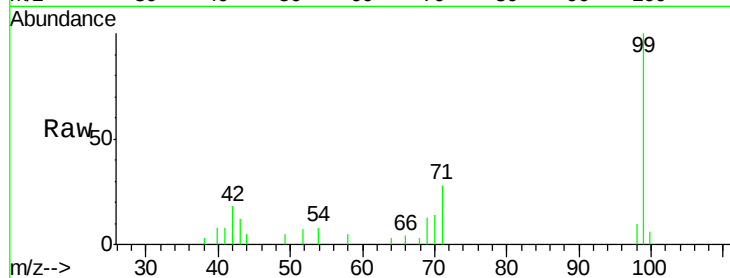
ClientSampleId :

CL-02-040219-BDL

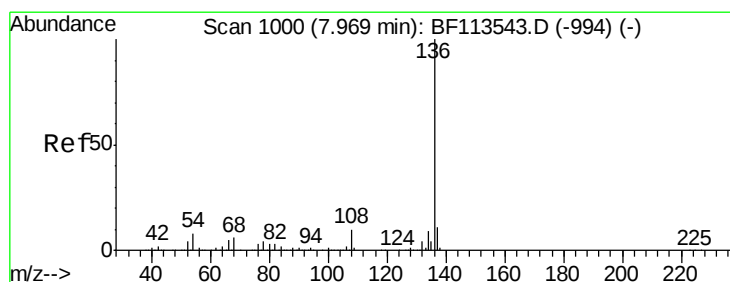
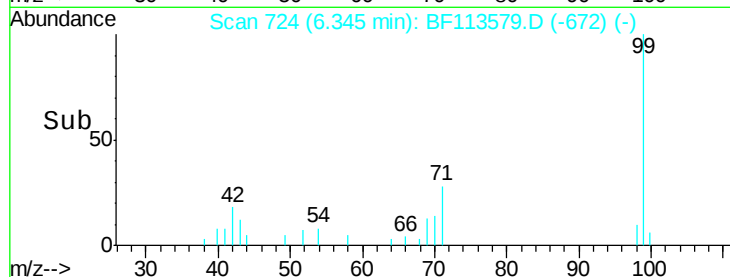
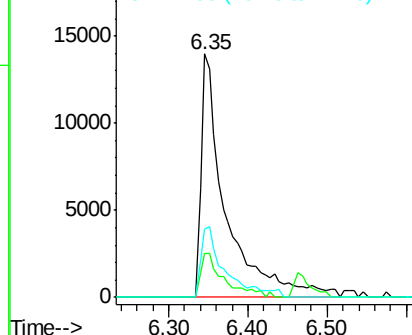
Tgt Ion:	99	Resp:	30523
Ion Ratio	Lower	Upper	
99	100		
42	18.1	14.8	22.2
71	27.8	24.9	37.3

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1000

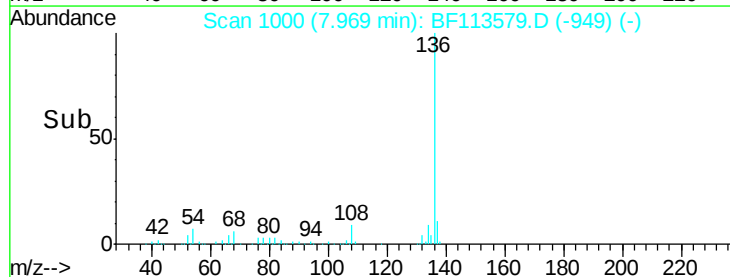
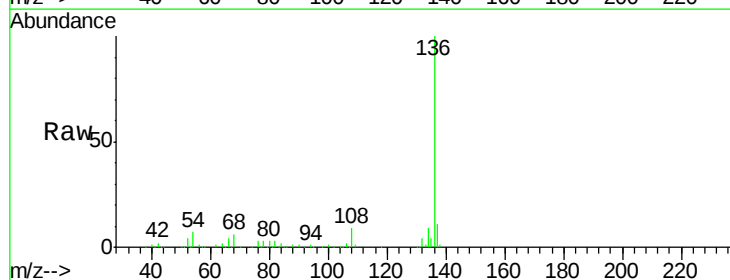
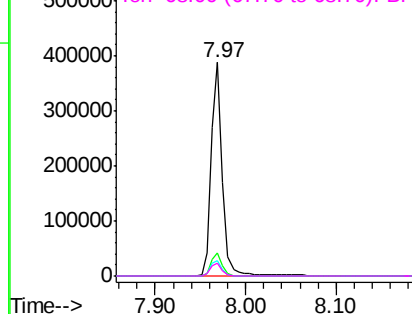
Delta R.T. 0.00 min

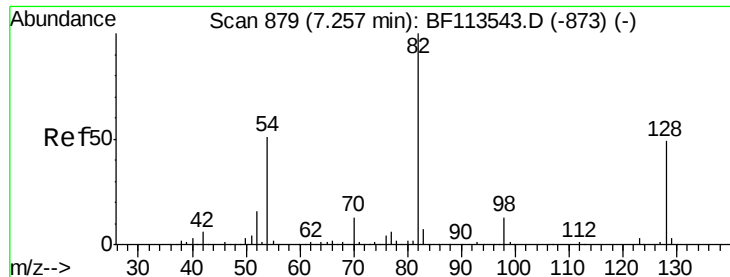
Lab File: BF113579.D

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Tgt Ion:	136	Resp:	340824
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.9	13.3
54	7.3	7.0	10.6
68	5.9	4.8	7.2

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





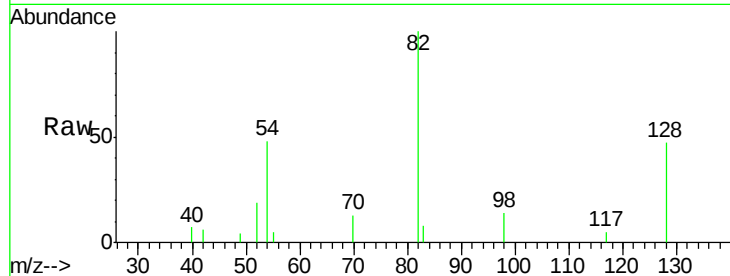
#23
Nitrobenzene-d5
Concen: 2.302 ng
RT: 7.26 min Scan# 879
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-BDL

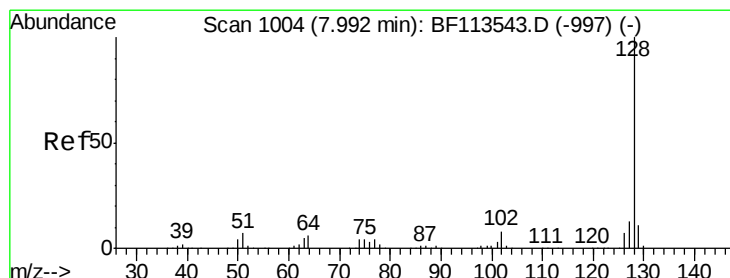
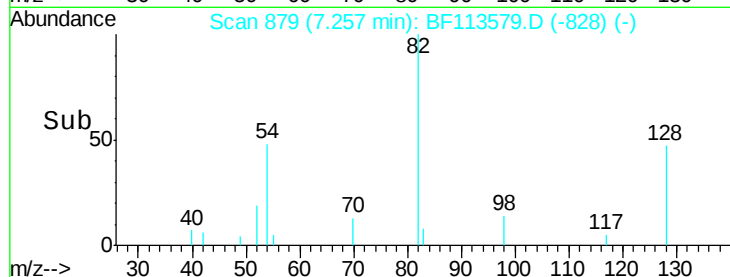
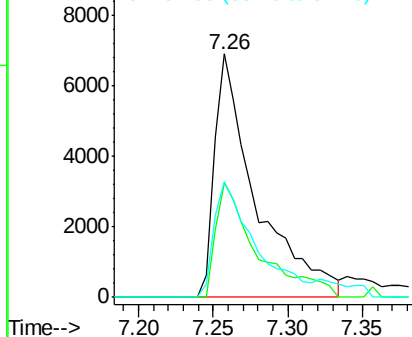
Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.9	36.5	54.7
54	47.7	42.2	63.2

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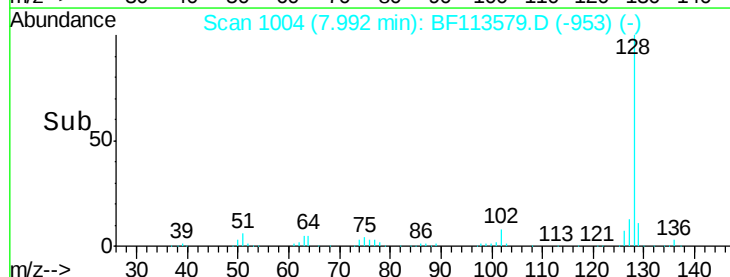
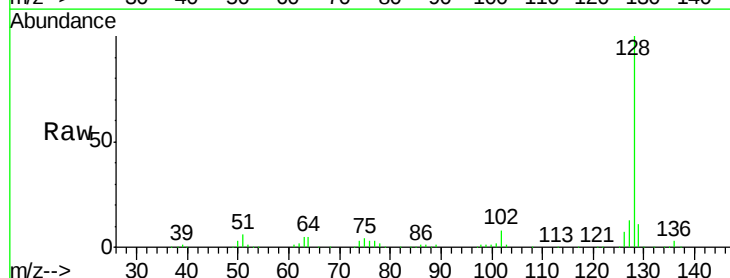
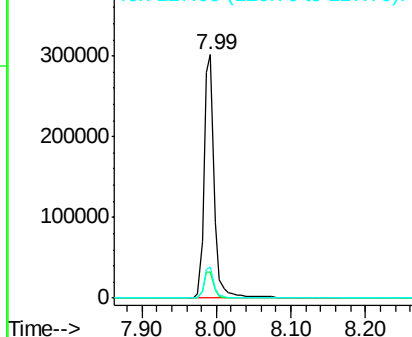
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

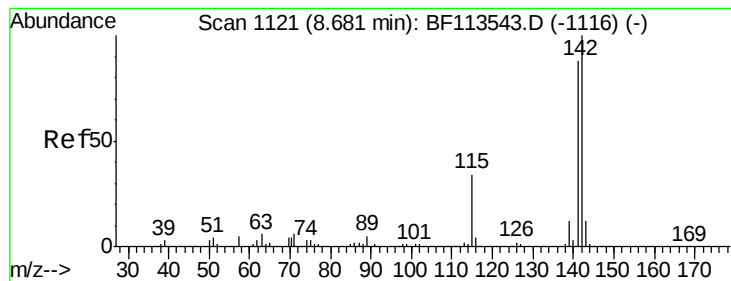


#31
Naphthalene
Concen: 17.694 ng
RT: 7.99 min Scan# 1004
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.3	13.9
127	12.6	10.9	16.3

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: 4.925 ng

RT: 8.69 min Scan# 1122

Delta R.T. 0.01 min

Lab File: BF113579.D

Acq: 4 Apr 2019 9:09

Instrument :

BNA_F

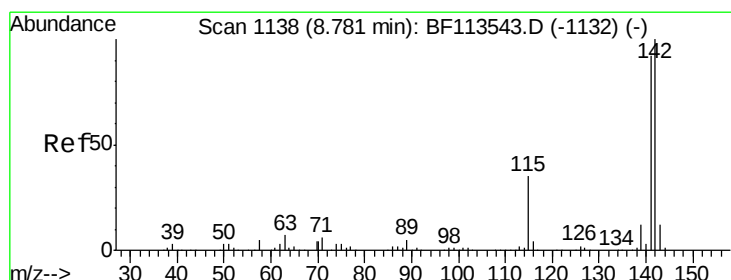
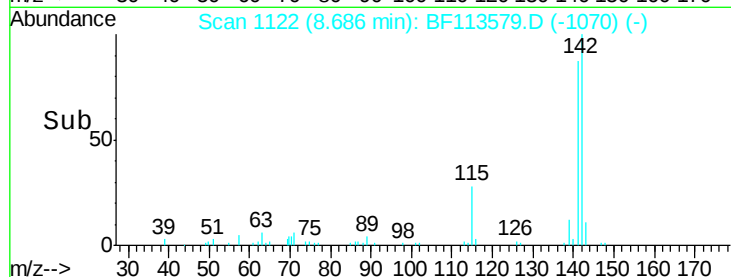
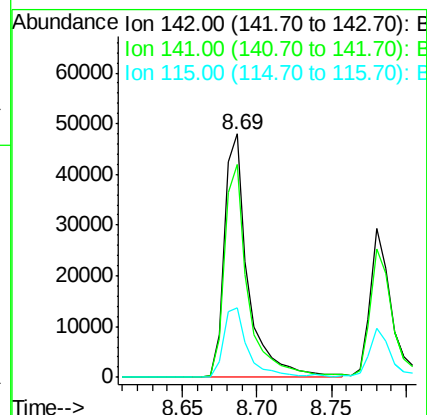
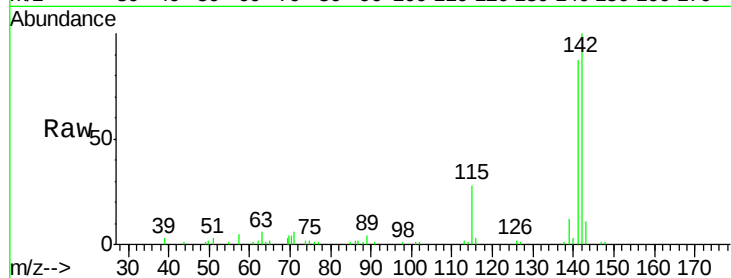
ClientSampleId :

CL-02-040219-BDL

Tgt Ion:	142	Resp:	53486
Ion Ratio	Lower	Upper	
142	100		
141	87.4	71.0	106.6
115	28.3	26.6	39.8

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#38

1-Methylnaphthalene

Concen: 2.831 ng

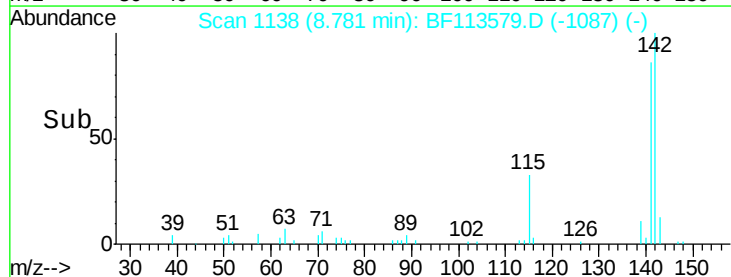
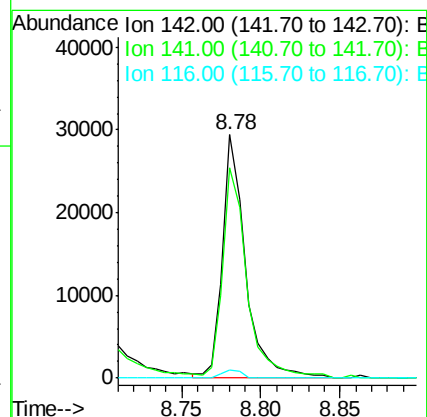
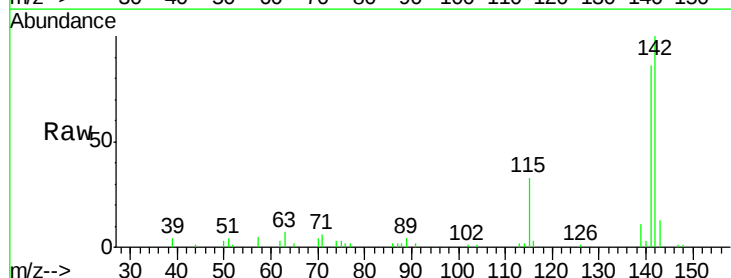
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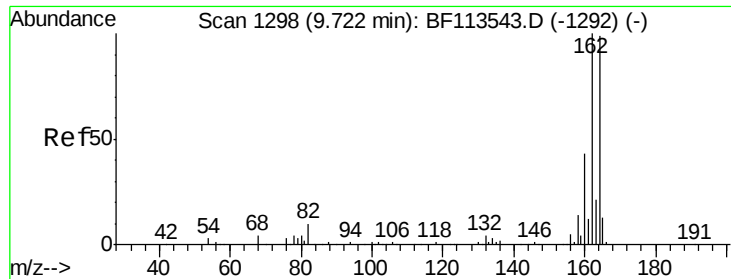
Delta R.T. 0.00 min

Lab File: BF113579.D

Acq: 4 Apr 2019 9:09

Tgt Ion:	142	Resp:	29645
Ion Ratio	Lower	Upper	
142	100		
141	86.4	73.2	109.8
116	3.4	3.0	4.4





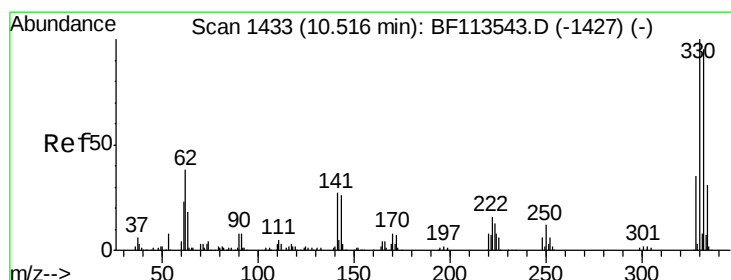
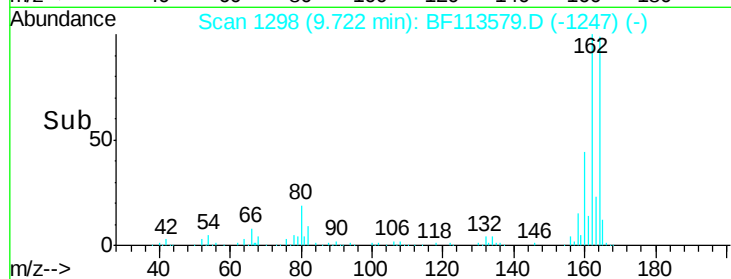
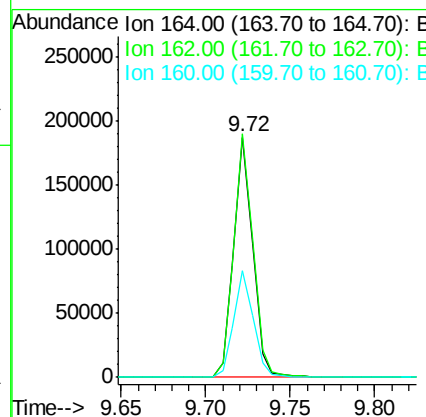
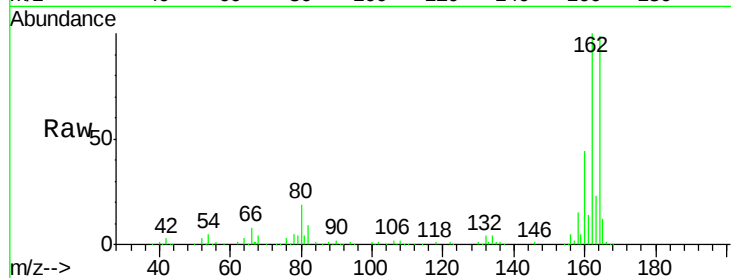
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Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	147748		
162	101.4	81.8	122.6	
160	44.4	36.4	54.6	

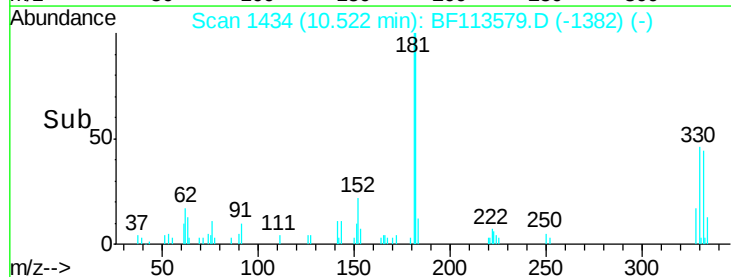
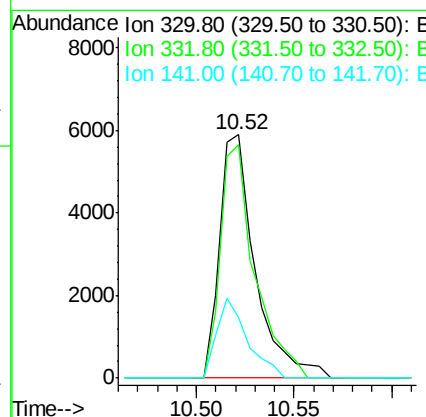
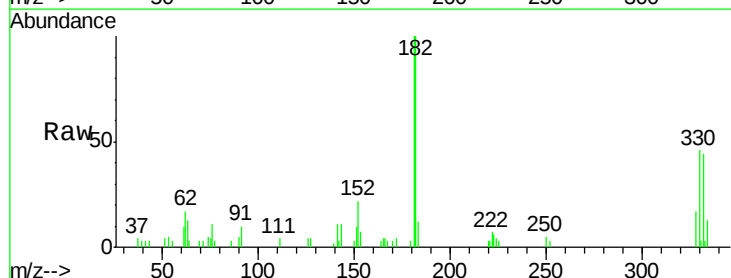
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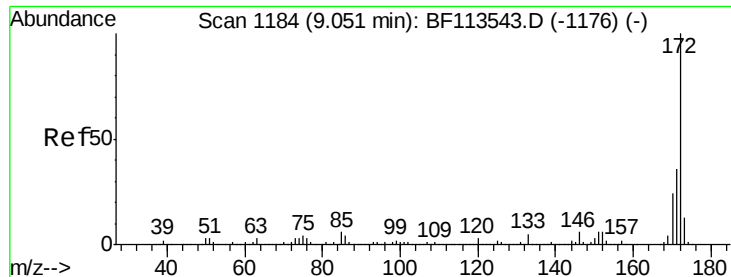
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#42
2,4,6-Tribromophenol
Concen: 4.209 ng
RT: 10.52 min Scan# 1434
Delta R.T. 0.01 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	7470		
332	92.4	77.8	116.6	
141	28.1	22.7	34.1	





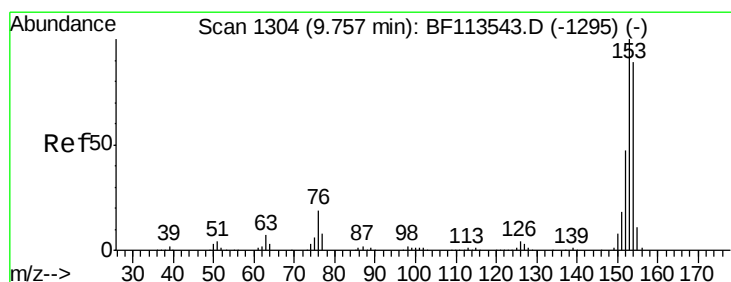
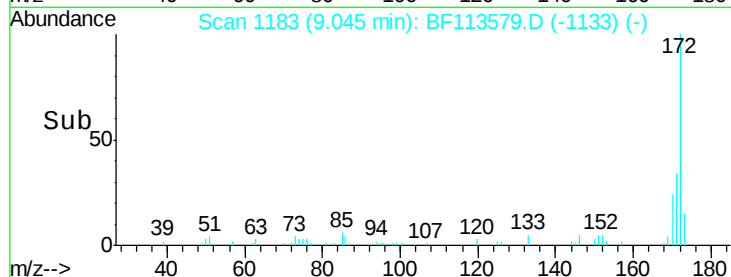
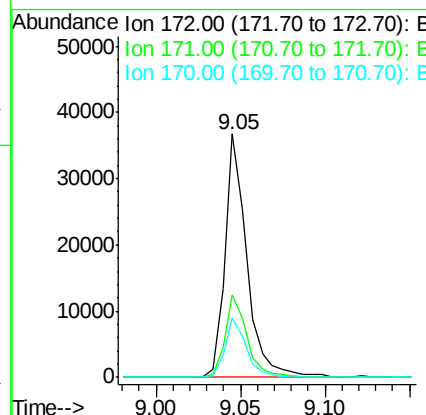
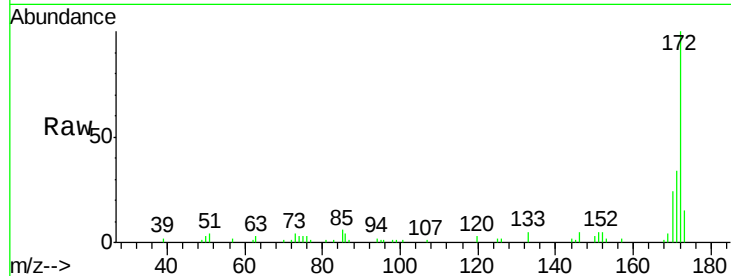
#45
2-Fluorobiphenyl
Concen: 3.629 ng
RT: 9.05 min Scan# 1183
Delta R.T. -0.01 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	33308		
171	33.8	29.0	43.6	
170	24.2	19.5	29.3	

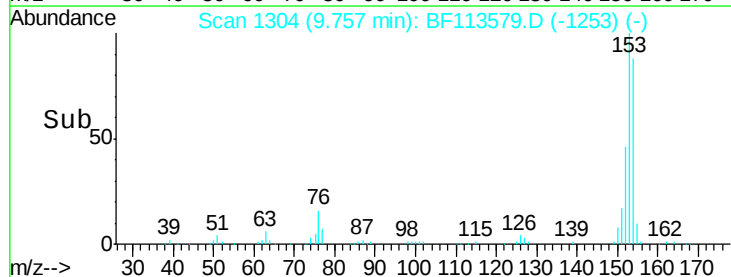
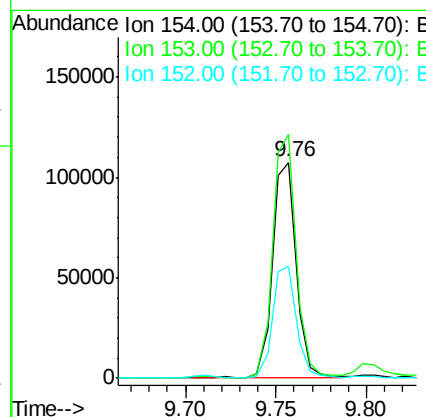
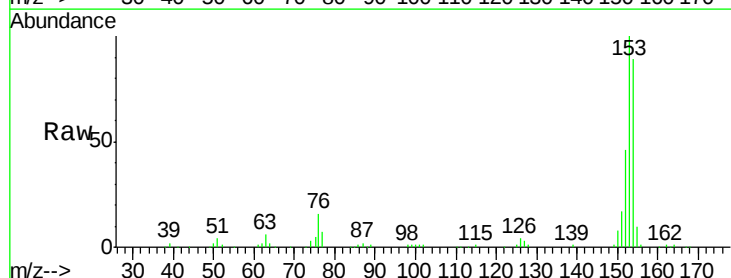
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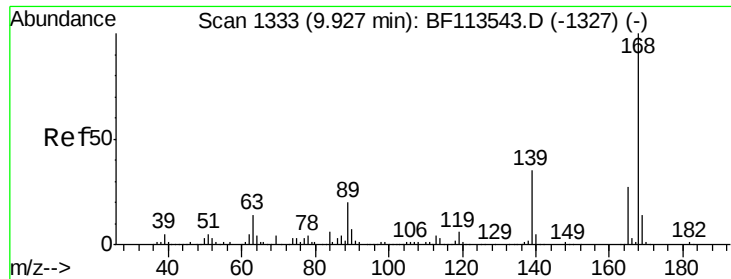
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#52
Acenaphthene
Concen: 11.408 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

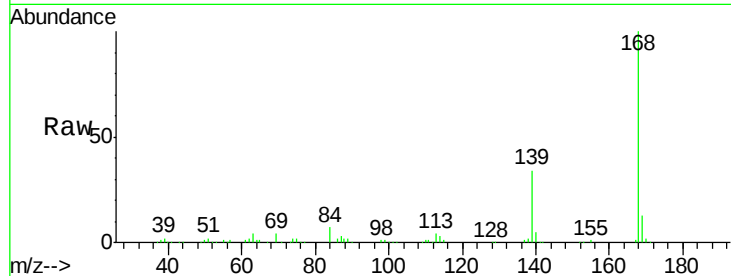
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	98023		
153	112.7	89.5	134.3	
152	51.7	43.3	64.9	





#55
Dibenzenofuran
Concen: 11.456 ng
RT: 9.93 min Scan# 1333
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

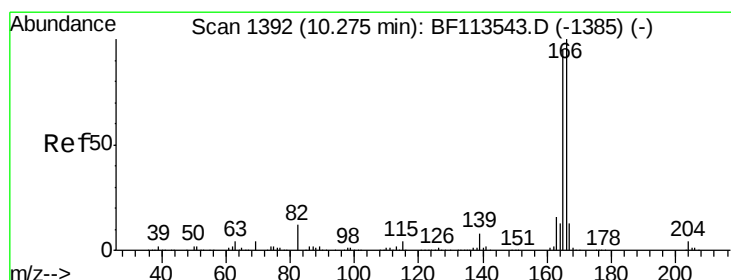
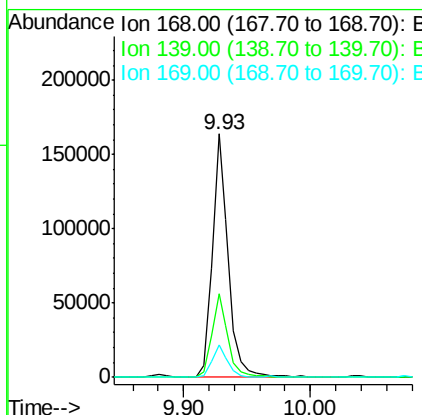
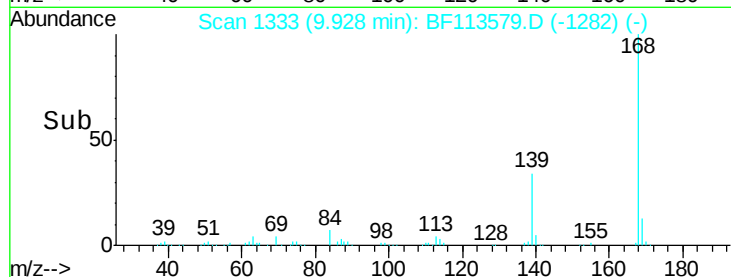
Instrument :
BNA_F
ClientSampleId :
CL-02-040219-BDL



Tgt Ion	Ratio	Lower	Upper
168	100		
139	34.1	29.7	44.5
169	13.3	10.7	16.1

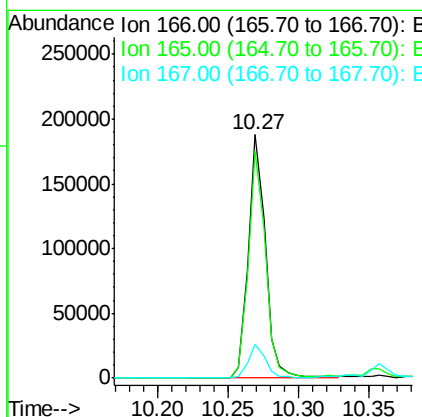
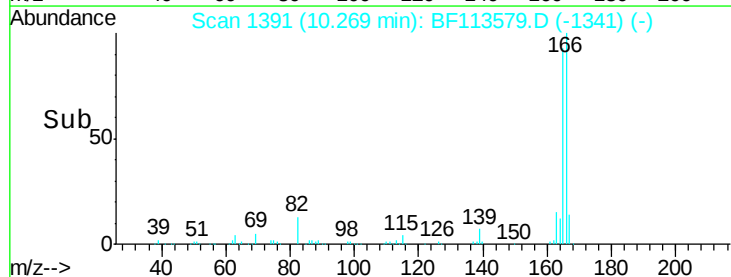
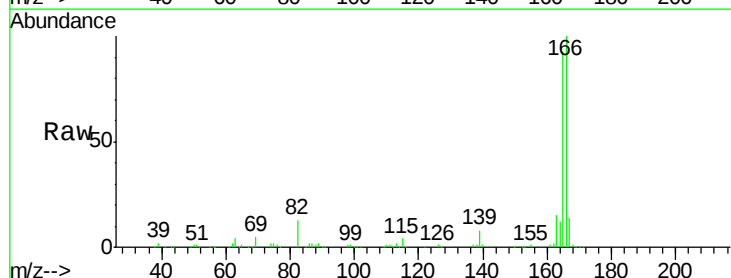
Manual Integrations
APPROVED

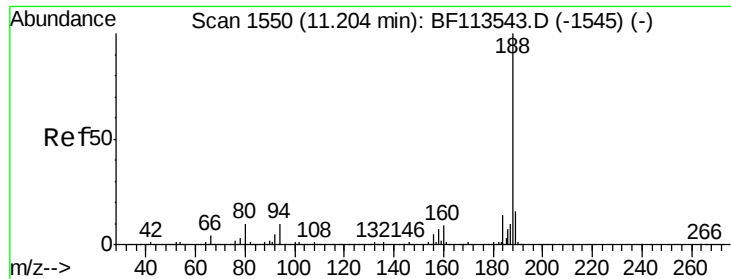
Sohil
4/4/2019 10:58:21 AM



#58
Fluorene
Concen: 16.167 ng
RT: 10.27 min Scan# 1391
Delta R.T. -0.01 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Lower	Upper
166	100		
165	93.2	76.2	114.2
167	14.0	10.7	16.1





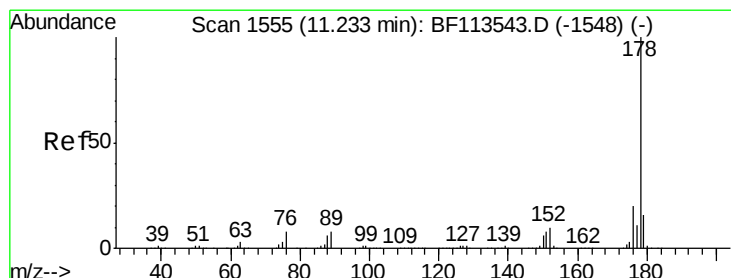
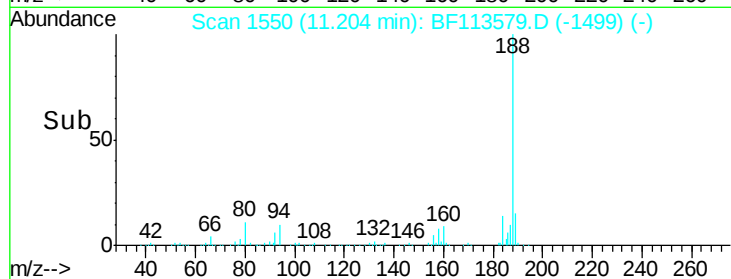
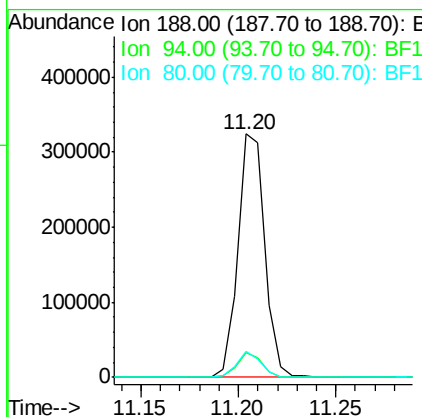
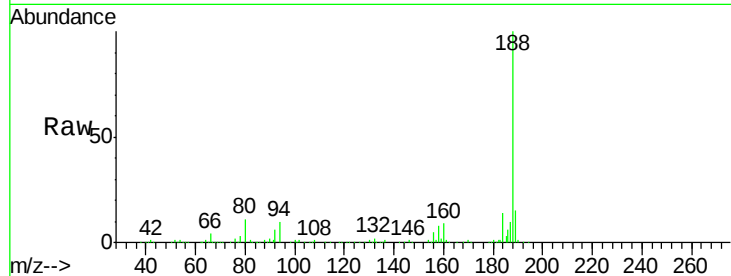
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1550
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	308363		
94	10.3	7.0	10.6	
80	10.7	7.7	11.5	

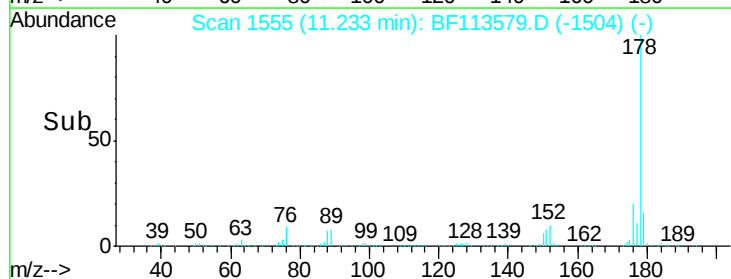
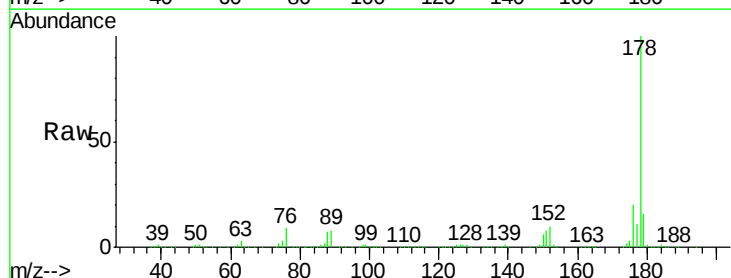
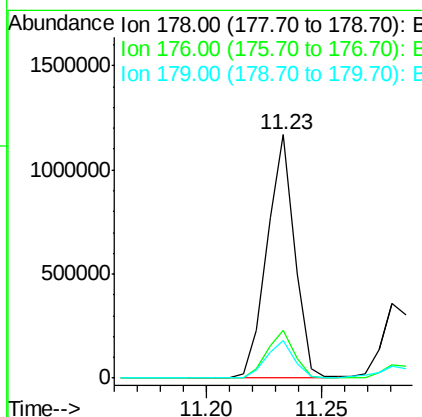
Manual Integrations
APPROVED

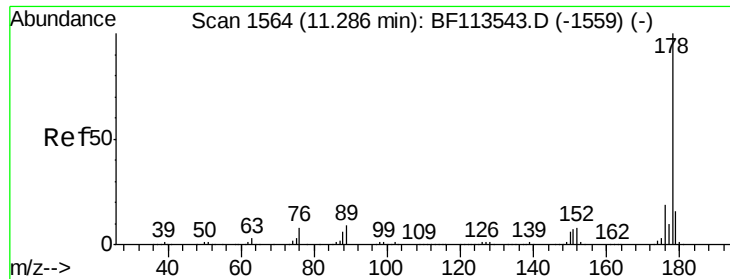
Sohil
4/4/2019 10:58:21 AM



#71
Phenanthrene
Concen: 63.334 ng
RT: 11.23 min Scan# 1555
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	970449		
176	19.7	16.2	24.2	
179	15.6	12.7	19.1	





#72

Anthracene

Concen: 20.332 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BF113579.D

Acq: 4 Apr 2019 9:09

Instrument :

BNA_F

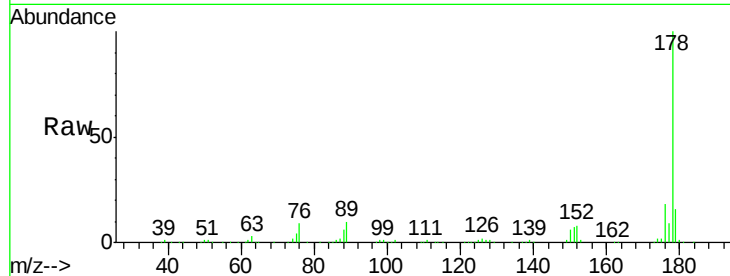
ClientSampleId :

CL-02-040219-BDL

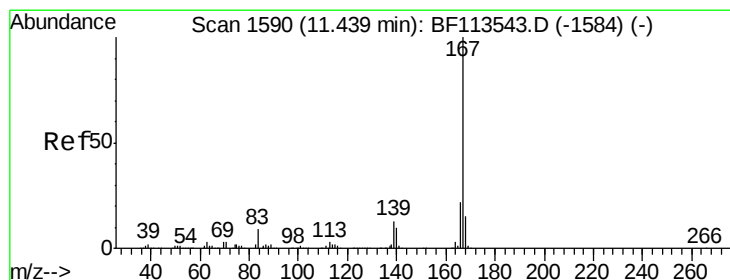
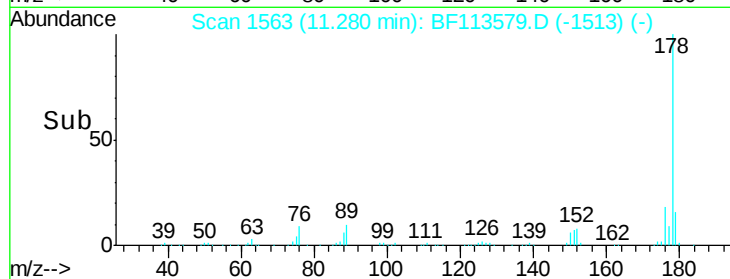
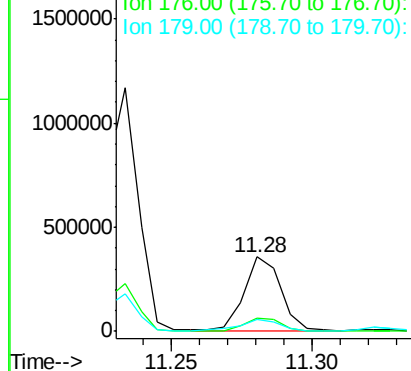
Tgt Ion:	178	Resp:	316977
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.4	23.2
179	16.0	12.8	19.2

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: 8.471 ng

RT: 11.44 min Scan# 1590

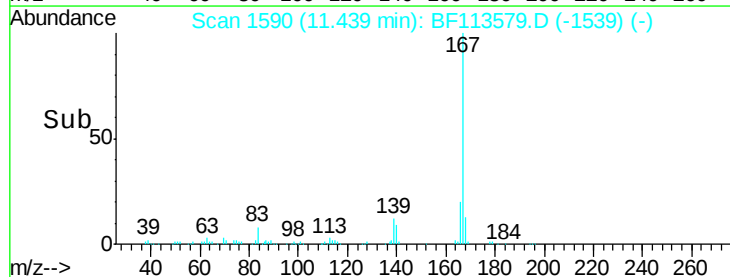
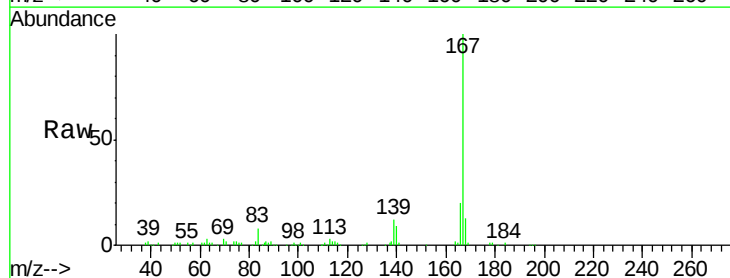
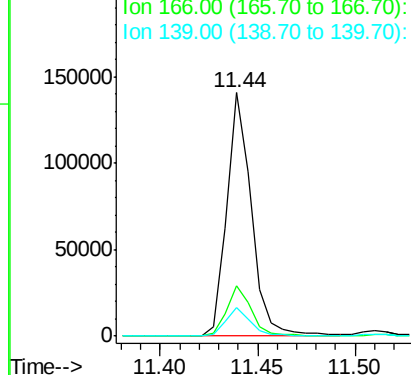
Delta R.T. 0.00 min

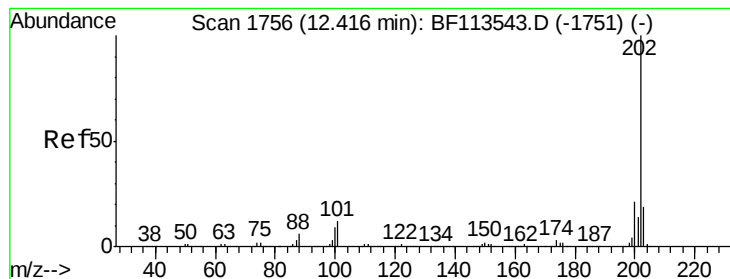
Lab File: BF113579.D

Acq: 4 Apr 2019 9:09

Tgt Ion:	167	Resp:	123510
Ion Ratio	Lower	Upper	
167	100		
166	20.5	17.4	26.0
139	11.5	10.4	15.6

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: 64.204 ng

RT: 12.42 min Scan# 1757

Delta R.T. 0.01 min

Lab File: BF113579.D

Acq: 4 Apr 2019 9:09

Instrument :

BNA_F

ClientSampleId :

CL-02-040219-BDL

Tgt Ion: 202 Resp: 1054194

Ion Ratio Lower Upper

202 100

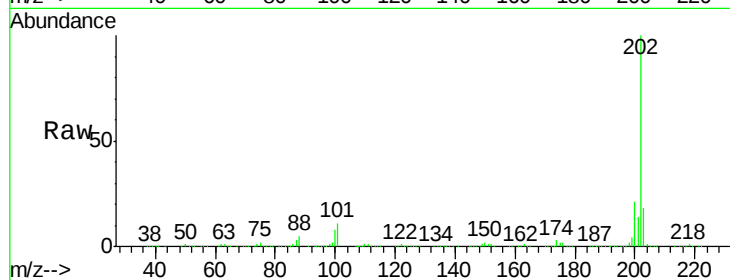
101 10.9 0.0 31.4

203 18.0 0.0 38.0

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Sohil

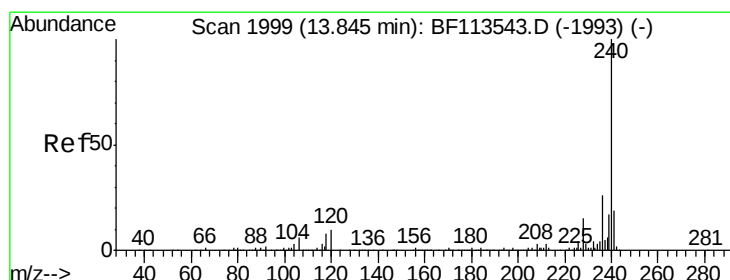
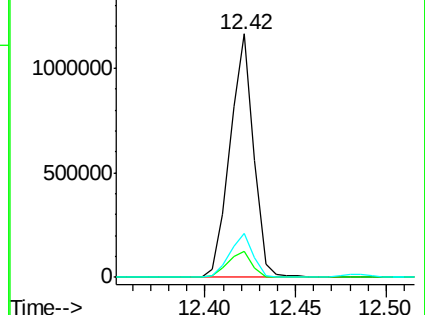
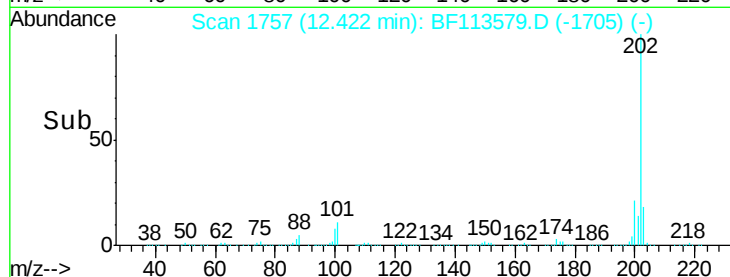
4/4/2019 10:58:21 AM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. 0.00 min

Lab File: BF113579.D

Acq: 4 Apr 2019 9:09

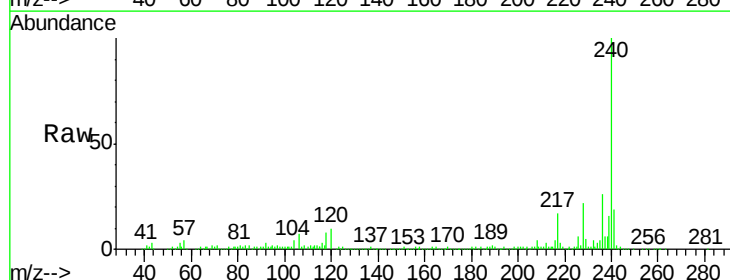
Tgt Ion: 240 Resp: 272403

Ion Ratio Lower Upper

240 100

120 9.9 8.8 13.2

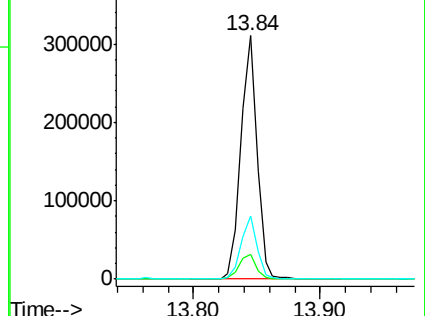
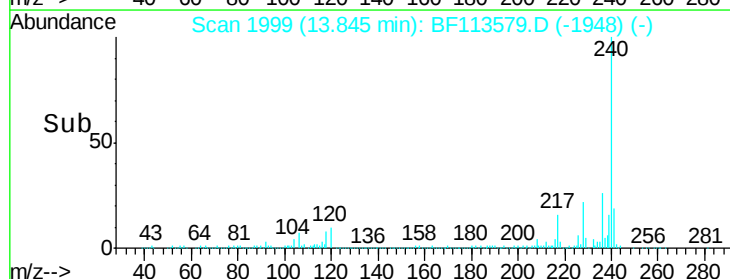
236 26.1 20.9 31.3

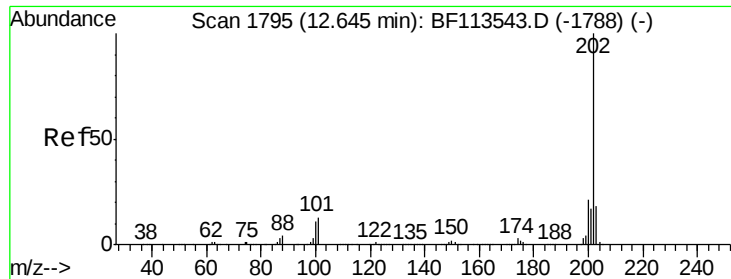


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





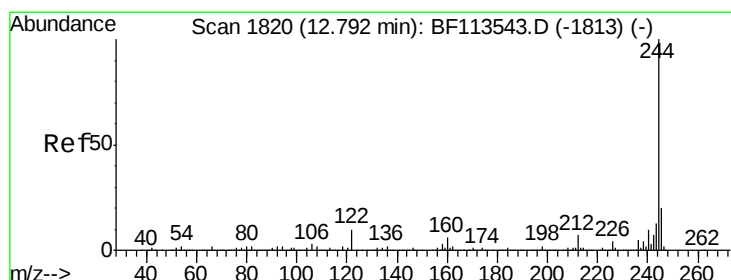
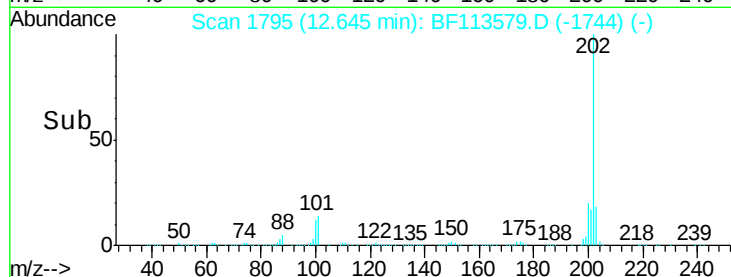
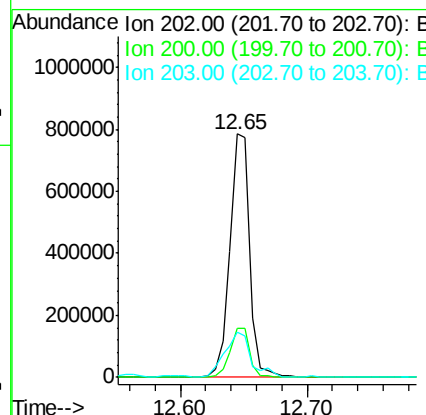
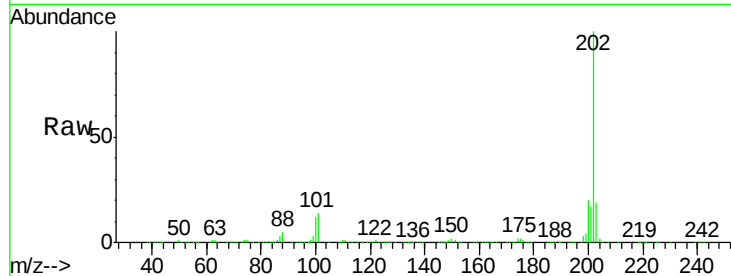
#78
 Pyrene
 Concen: 40.549 ng
 RT: 12.65 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: BF113579.D
 Acq: 4 Apr 2019 9:09

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	840461		
200	20.4	16.8	25.2	
203	18.5	14.4	21.6	

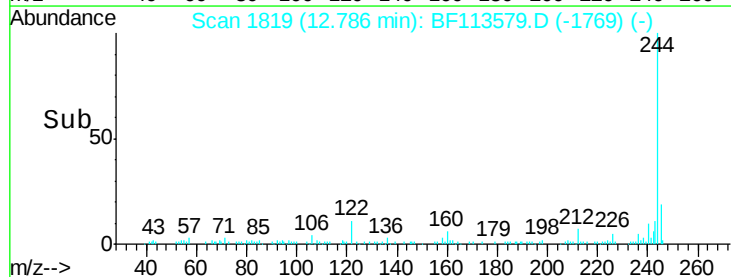
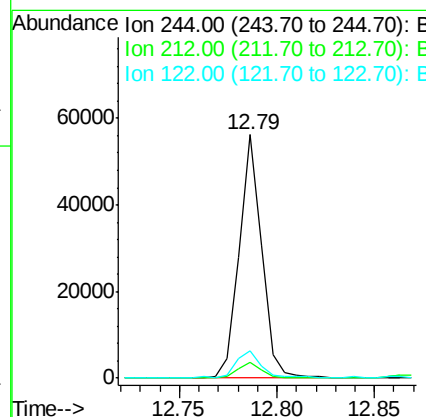
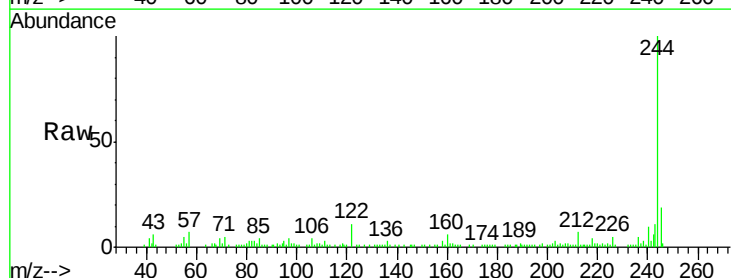
Manual Integrations
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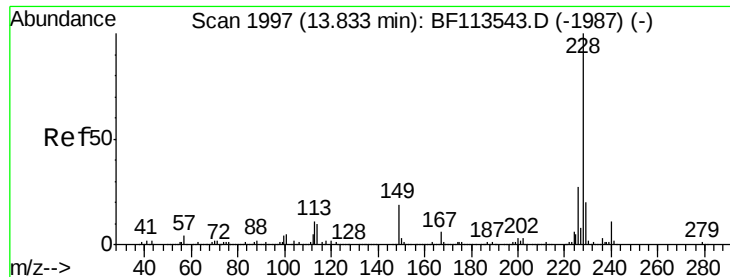
Sohil
 4/4/2019 10:58:21 AM



#79
 Terphenyl-d14
 Concen: 3.371 ng
 RT: 12.79 min Scan# 1819
 Delta R.T. -0.01 min
 Lab File: BF113579.D
 Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	45104		
212	6.5	5.5	8.3	
122	11.1	8.6	13.0	





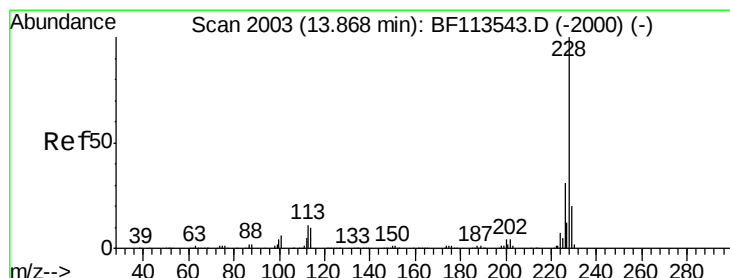
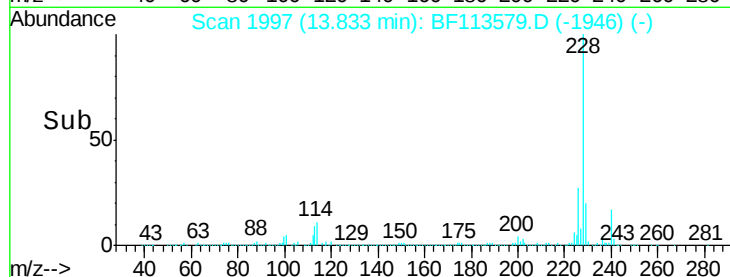
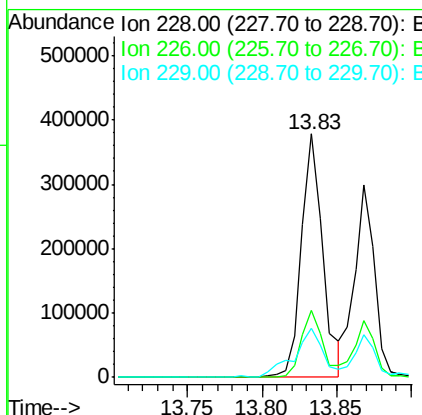
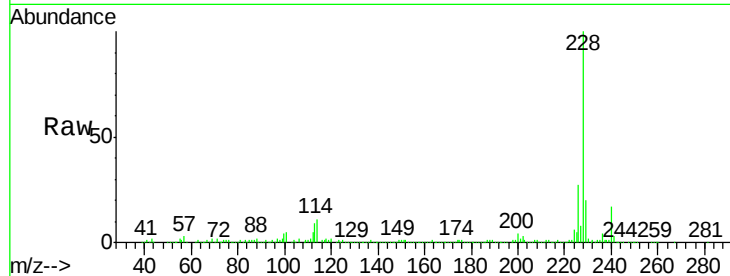
#81
Benzo(a)anthracene
Concen: 24.025 ng
RT: 13.83 min Scan# 1997
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-BDL

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	377516		
226	27.4	21.8	32.8	
229	20.3	16.2	24.4	

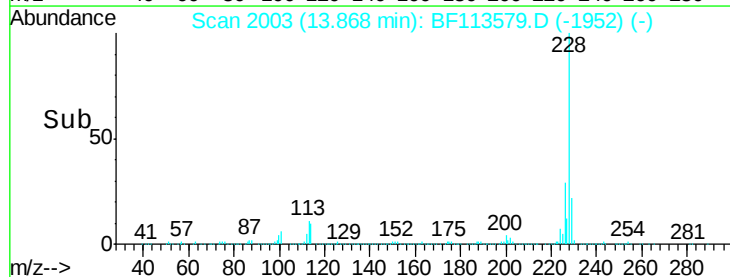
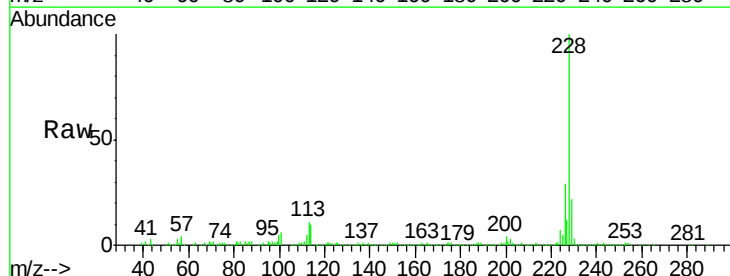
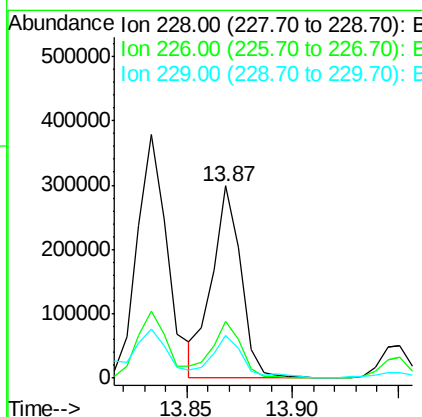
Manual Integrations
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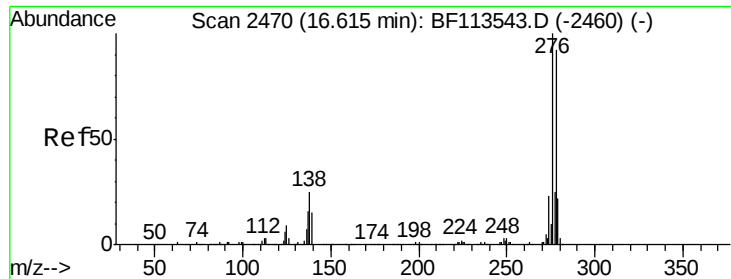
Sohil
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#83
Chrysene
Concen: 17.786 ng
RT: 13.87 min Scan# 2003
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	283320		
226	29.4	24.3	36.5	
229	22.4	16.3	24.5	





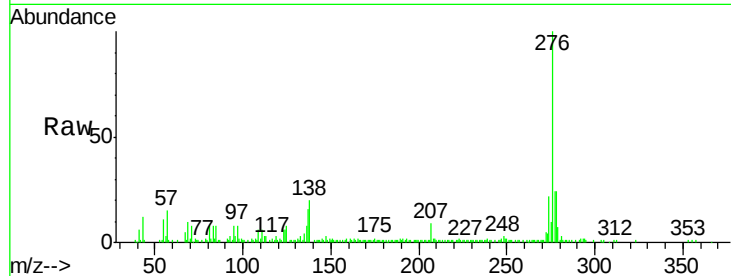
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.468 ng
 RT: 16.62 min Scan# 2471
 Delta R.T. 0.01 min
 Lab File: BF113579.D
 Acq: 4 Apr 2019 9:09

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-BDL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.7	18.1	27.1
277	23.6	20.2	30.4

Manual Integrations
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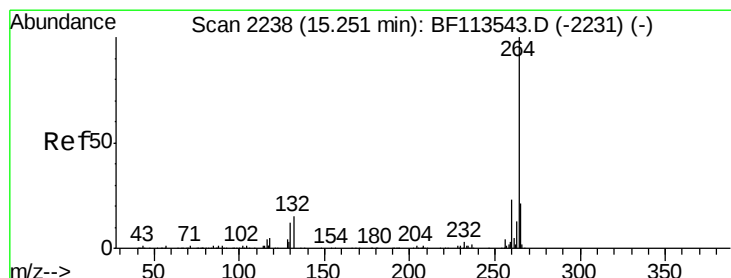
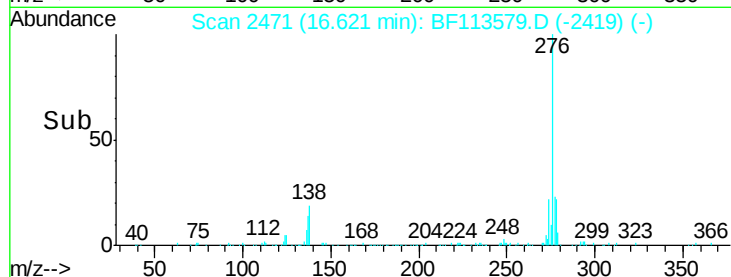
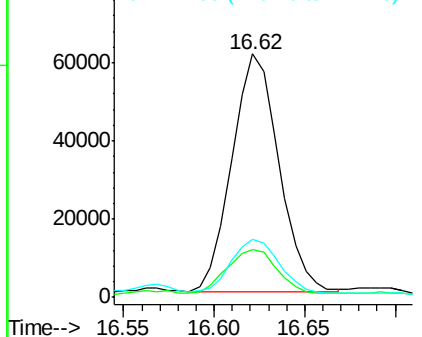


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.26 min Scan# 2239
 Delta R.T. 0.01 min
 Lab File: BF113579.D
 Acq: 4 Apr 2019 9:09

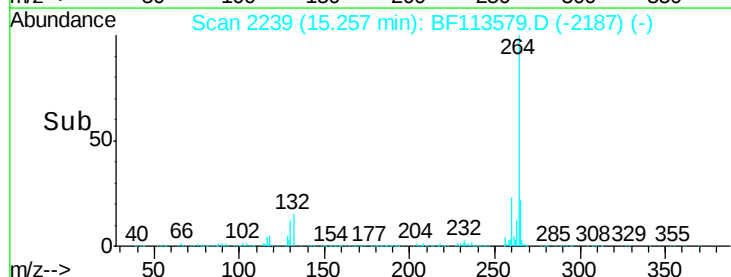
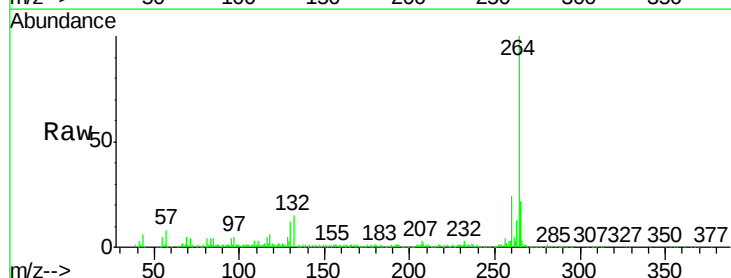
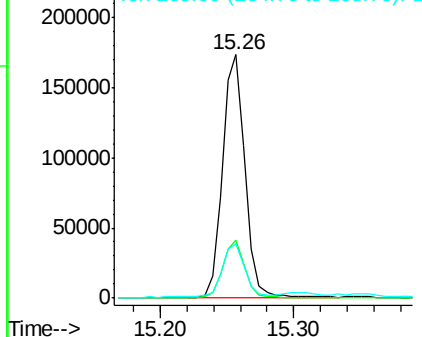
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.1	28.7
265	22.2	17.1	25.7

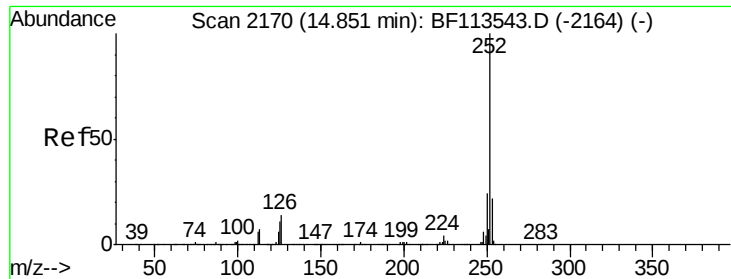
Abundance

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





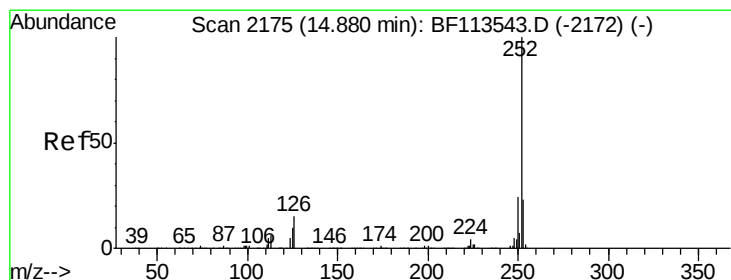
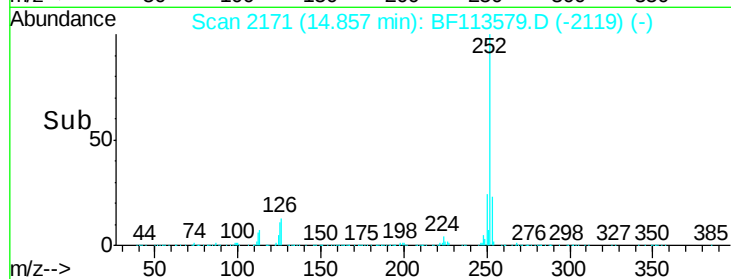
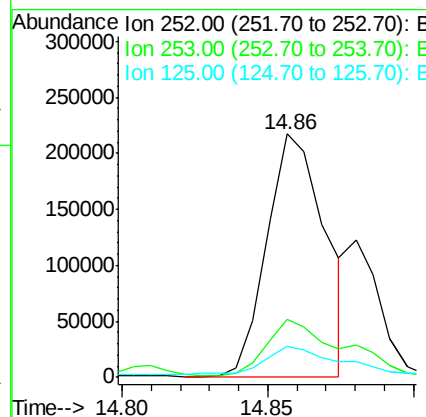
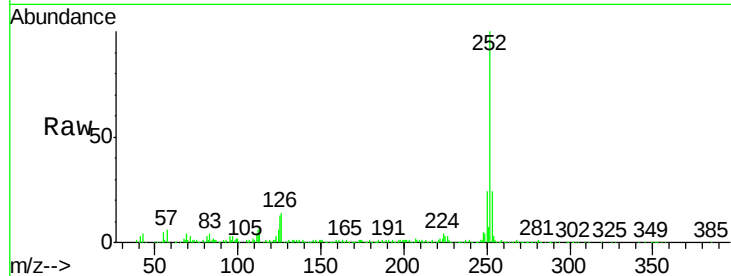
#88
Benzo(b)fluoranthene
Concen: 24.459 ng m
RT: 14.86 min Scan# 2171
Delta R.T. 0.01 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-BDL

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.9	18.0	27.0
125	12.6	7.6	11.4

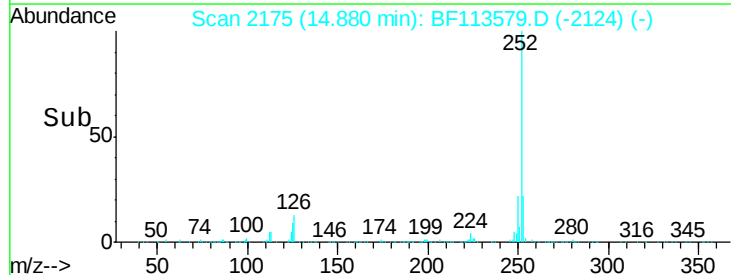
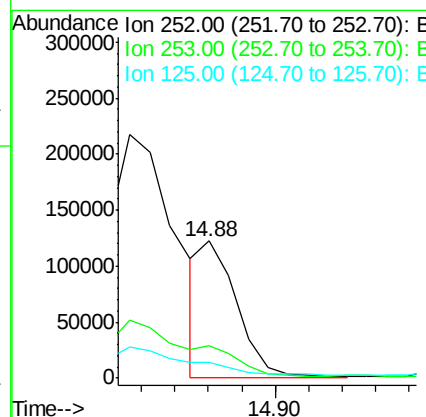
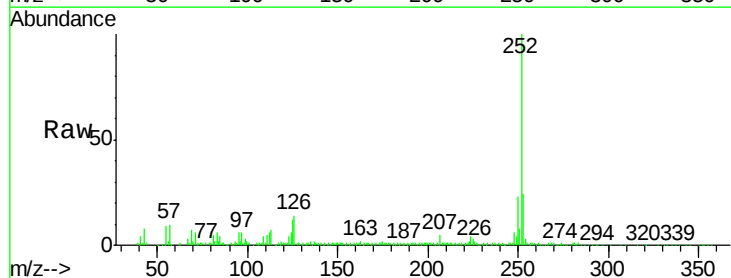
Manual Integrations
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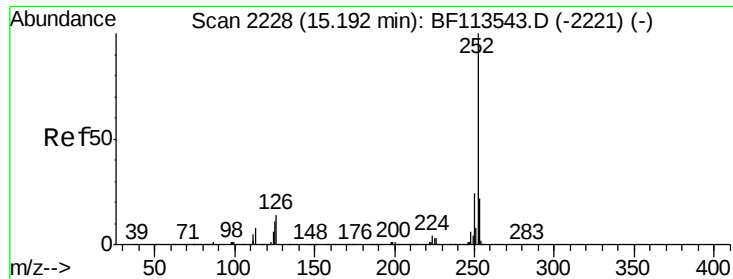
Sohil
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#89
Benzo(k)fluoranthene
Concen: 8.421 ng m
RT: 14.88 min Scan# 2175
Delta R.T. 0.00 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.5	17.7	26.5
125	11.8	7.3	10.9





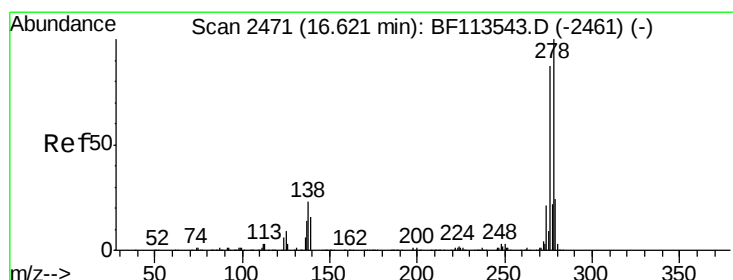
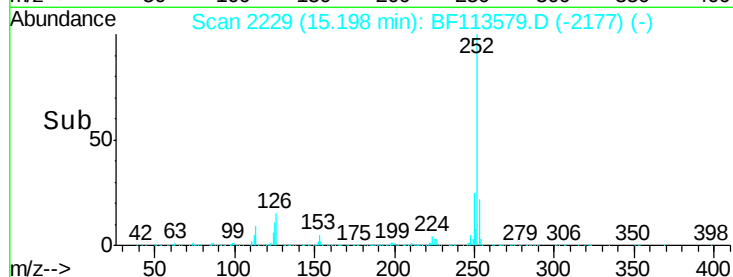
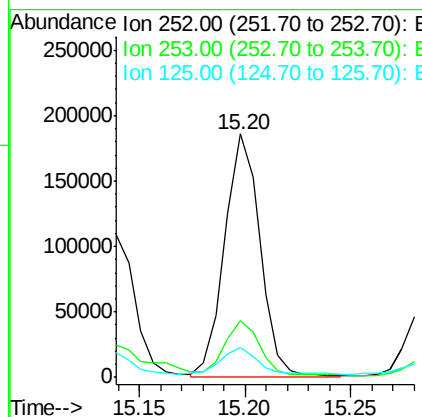
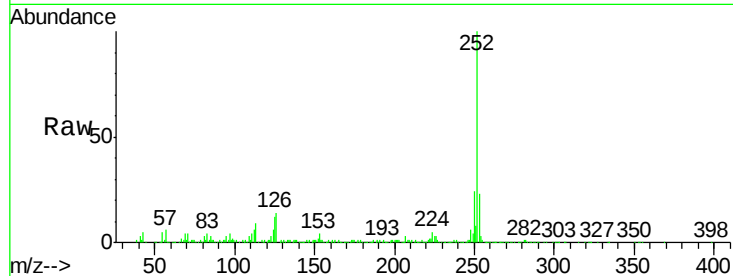
#90
Benzo(a)pyrene
Concen: 19.321 ng
RT: 15.20 min Scan# 2229
Delta R.T. 0.01 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Instrument :
BNA_F
ClientSampleId :
CL-02-040219-BDL

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.1	17.9	26.9
125	12.1	8.8	13.2

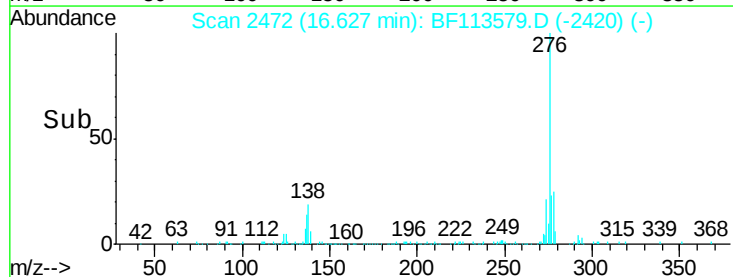
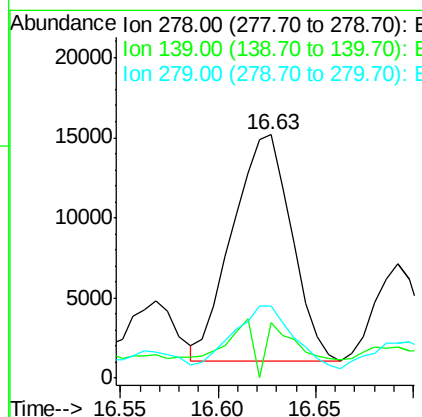
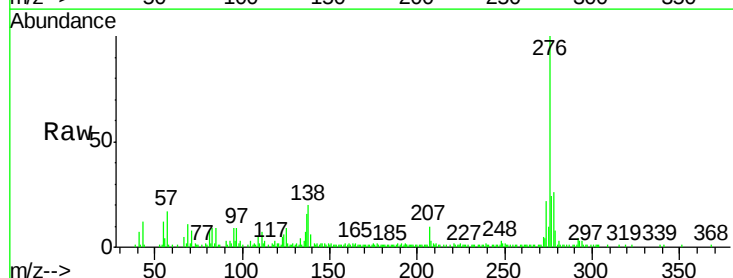
Manual Integrations
APPROVED

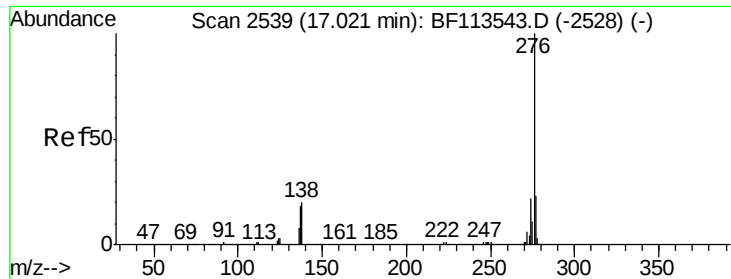
Sohil
4/4/2019 10:58:21 AM



#91
Dibenzo(a,h)anthracene
Concen: 2.869 ng
RT: 16.63 min Scan# 2472
Delta R.T. 0.01 min
Lab File: BF113579.D
Acq: 4 Apr 2019 9:09

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	22.6	12.0	18.0#
279	29.4	19.0	28.6#





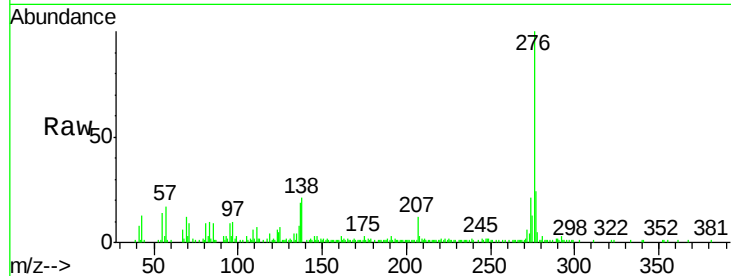
#92
 Benzo(g,h,i)perylene
 Concen: 9.424 ng
 RT: 17.03 min Scan# 2541
 Delta R.T. 0.01 min
 Lab File: BF113579.D
 Acq: 4 Apr 2019 9:09

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-040219-BDL

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.8	28.2
138	20.8	15.6	23.4

Manual Integrations
 APPROVED

Sohil
 4/4/2019 10:58:21 AM



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

