

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032719\
 Data File : BF113333.D
 Acq On : 27 Mar 2019 16:19
 Operator : JU/SJ
 Sample : K2086-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Manual Integrations
 APPROVED

Sohil
 3/28/2019 8:41:56 AM

Quant Time: Mar 28 03:57:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	185423	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	691241	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	330656	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	621722	20.00	ng	0.00
76) Chrysene-d12	13.84	240	409456	20.00	ng	0.00
87) Perylene-d12	15.24	264	469358	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	1134211	100.02	ng	0.00
7) Phenol-d6	6.35	99	1490161	103.87	ng	0.00
23) Nitrobenzene-d5	7.26	82	906440	77.83	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	380963	93.27	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	1618120	74.53	ng	0.00
79) Terphenyl-d14	12.79	244	1467166	78.98	ng	0.00

Target Compounds					Qvalue	
31) Naphthalene	8.00	128	75038	2.221	ng	98
37) 2-Methylnaphthalene	8.70	142	58755	2.788	ng	98
38) 1-Methylnaphthalene	8.79	142	42523	2.097	ng	99
49) Acenaphthylene	9.59	152	186844	5.435	ng	97
50) Dimethylphthalate	9.45	163	139797	5.705	ng	100
52) Acenaphthene	9.76	154	109777	5.670	ng	98
55) Dibenzofuran	9.93	168	174740	6.003	ng	97
58) Fluorene	10.27	166	138719	6.135	ng	99
71) Phenanthrene	11.24	178	1893515	61.329	ng	99
72) Anthracene	11.29	178	250792	7.997	ng	99
73) Carbazole	11.44	167	378666	12.654	ng	99
75) Fluoranthene	12.43	202	3907558	111.953	ng	97
78) Pvrene	12.66	202	3199325	112.756	ng	97
81) Benzo(a)anthracene	13.83	228	766012	32.683	ng	94
83) Chrysene	13.87	228	1847768	77.616	ng	98
86) Indeno(1,2,3-cd)pyrene	16.59	276	442043	21.636	ng	97
88) Benzo(b)fluoranthene	14.86	252	1794003m	61.530	ng	
89) Benzo(k)fluoranthene	14.87	252	600908m	23.469	ng	
90) Benzo(a)pvrene	15.19	252	555477	21.490	ng	98
91) Dibenzo(a,h)anthracene	16.59	278	95046m	4.253	ng	
92) Benzo(q,h,i)perylene	17.00	276	364276	16.165	ng	97

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

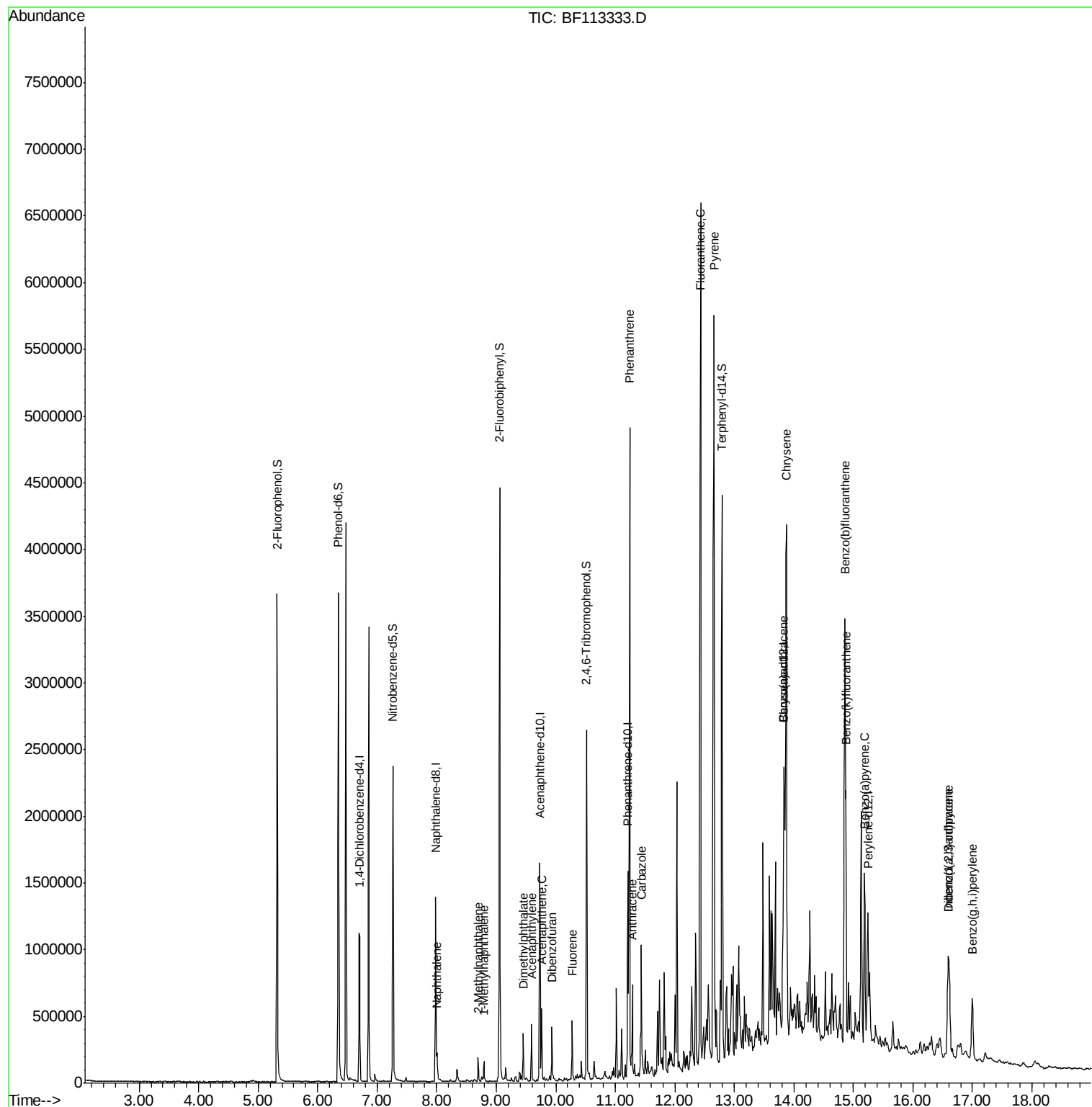
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032719\
Data File : BF113333.D
Acq On : 27 Mar 2019 16:19
Operator : JU/SJ
Sample : K2086-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

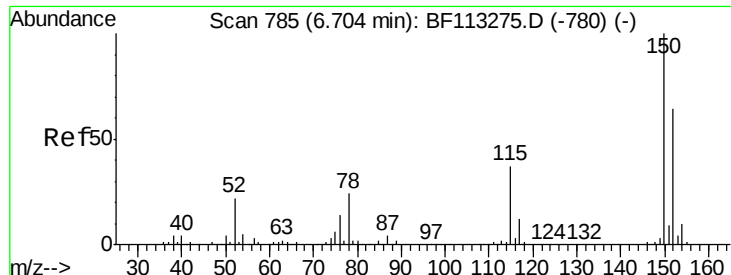
Instrument :
BNA_F
ClientSampleId :
CS-13

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

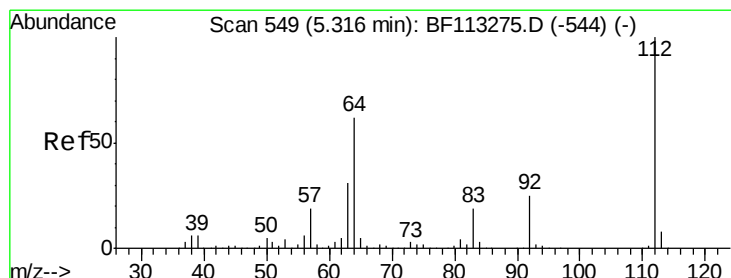
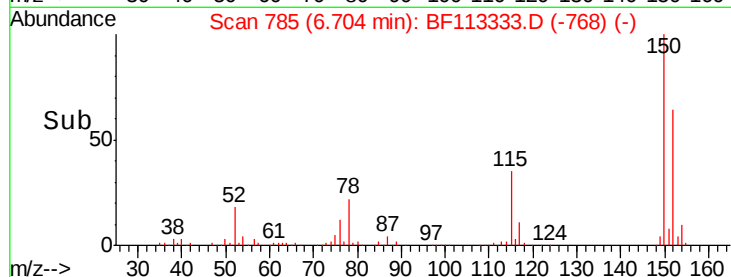
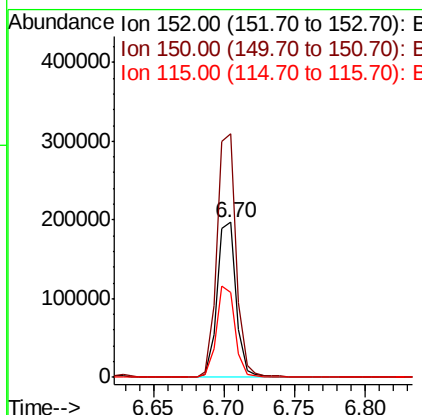
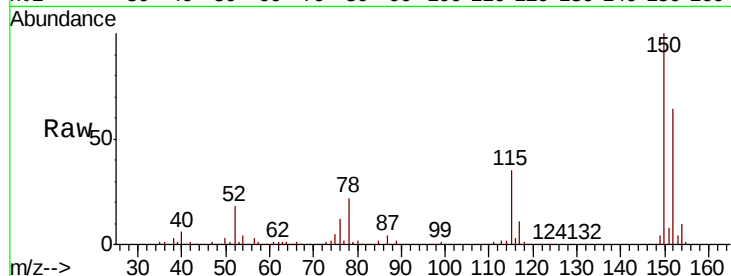
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 785
Delta R.T. 0.00 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.7	187.1
115	55.1	46.0	69.0

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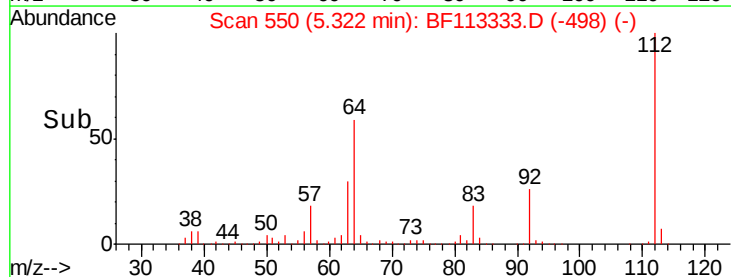
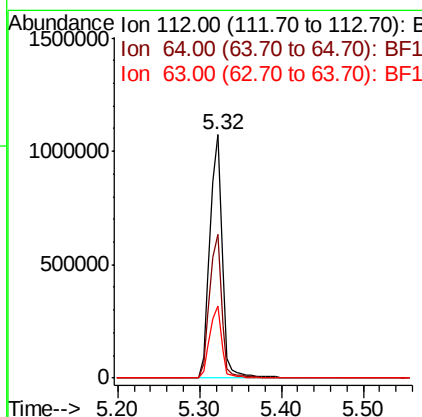
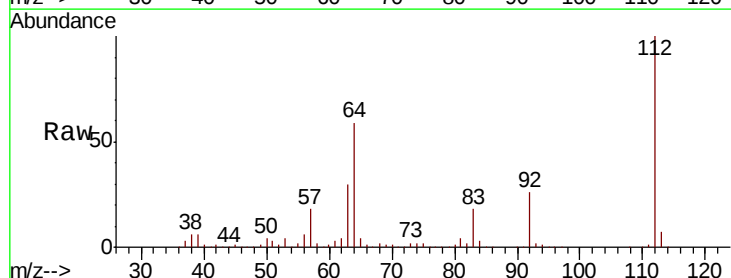
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#5

2-Fluorophenol
Concen: 100.018 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.1	49.2	73.8
63	29.8	24.9	37.3





#7

Phenol-d6

Concen: 103.875 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA_F

ClientSampleId :

CS-13

Tot Ion: 99 Resp: 1490161

Ion Ratio Lower Upper

99 100

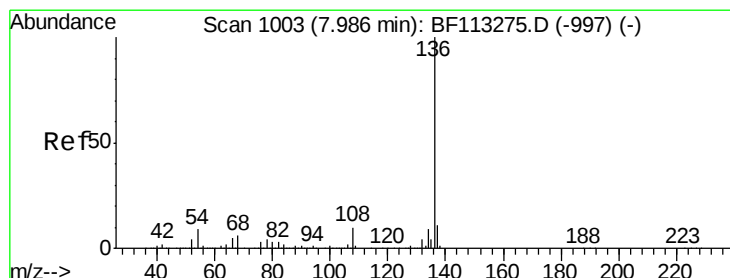
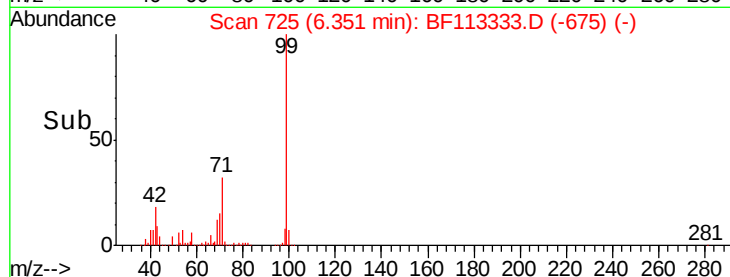
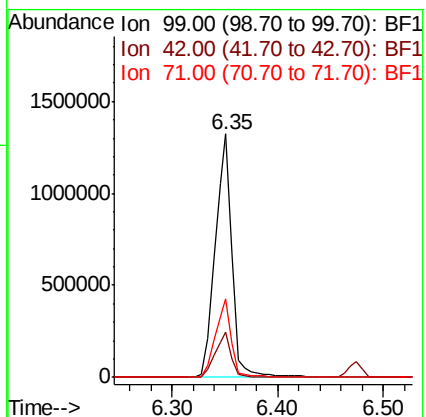
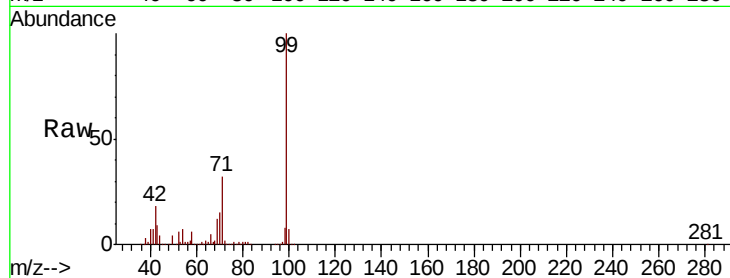
42 18.5 14.8 22.2

71 32.3 24.9 37.3

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Tgt Ion: 136 Resp: 691241

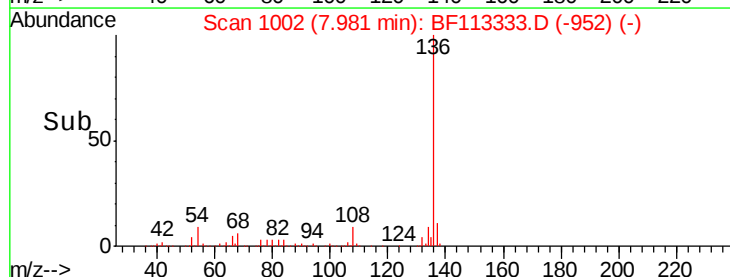
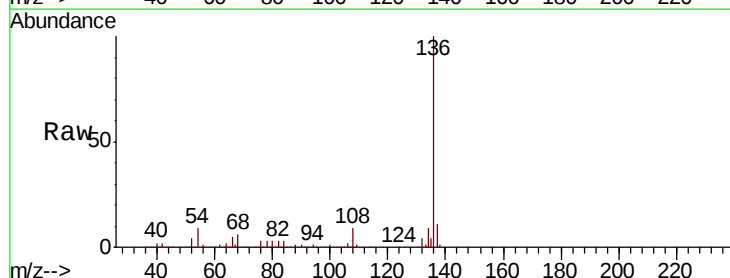
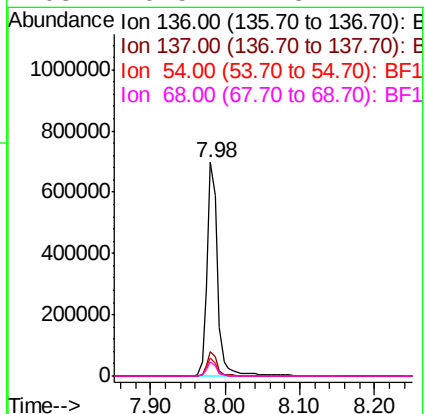
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 8.7 7.0 10.6

68 6.5 4.8 7.2





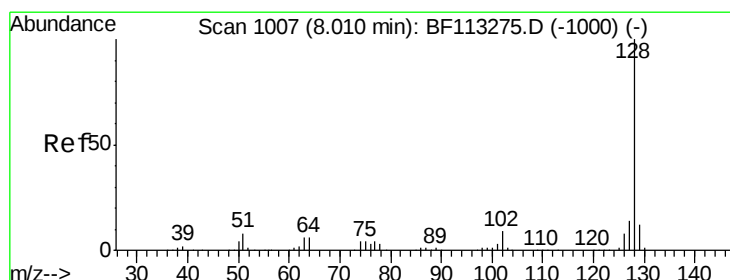
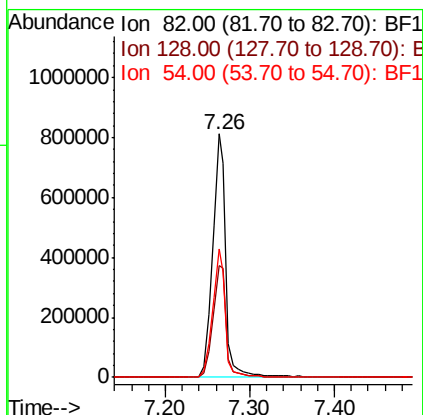
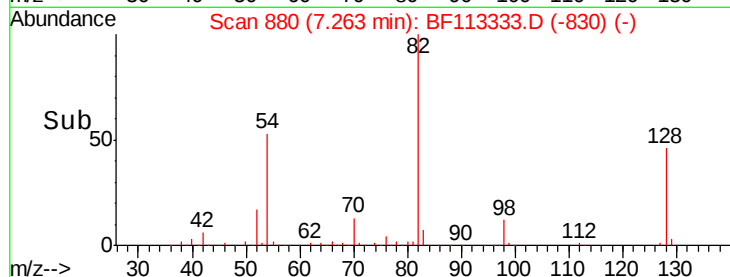
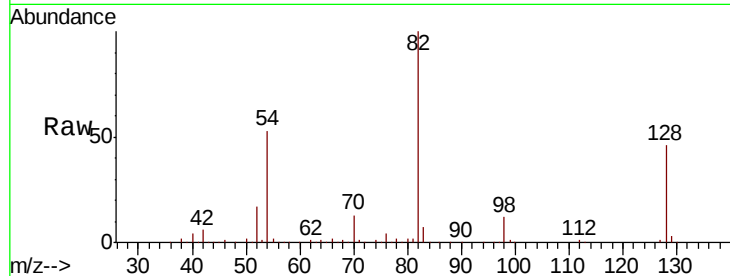
#23
Nitrobenzene-d5
Concen: 77.832 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.00 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.2	36.5	54.7
54	52.5	42.2	63.2

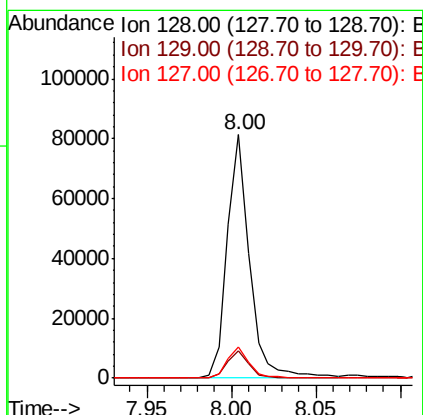
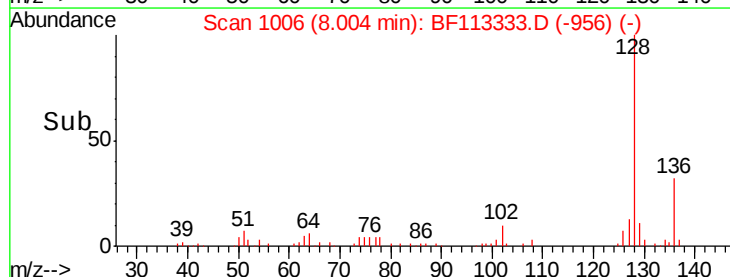
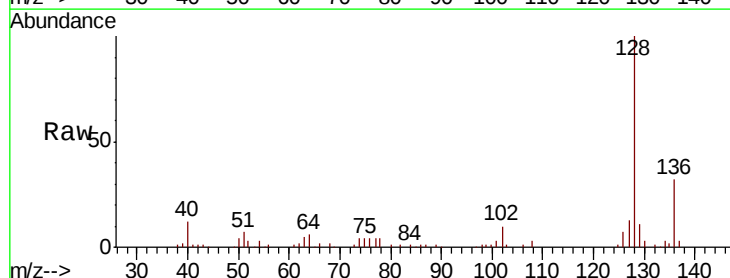
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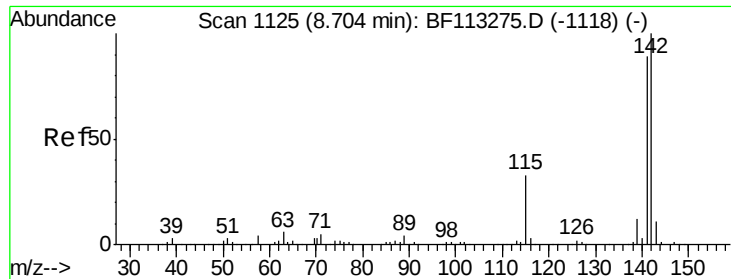
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#31
Naphthalene
Concen: 2.221 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.3	13.9
127	12.7	10.9	16.3





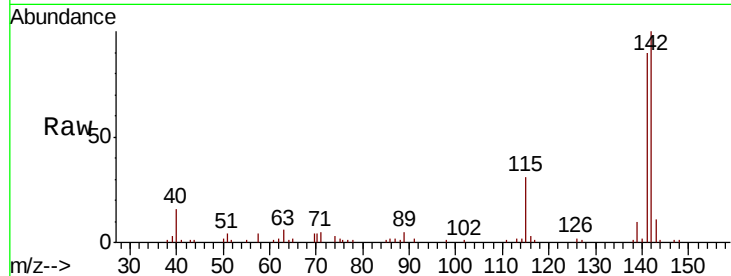
#37
2-Methylnaphthalene
Concen: 2.788 ng
RT: 8.70 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.0	106.6
115	30.6	26.6	39.8

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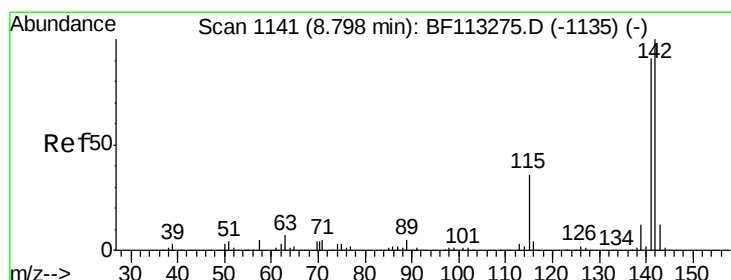
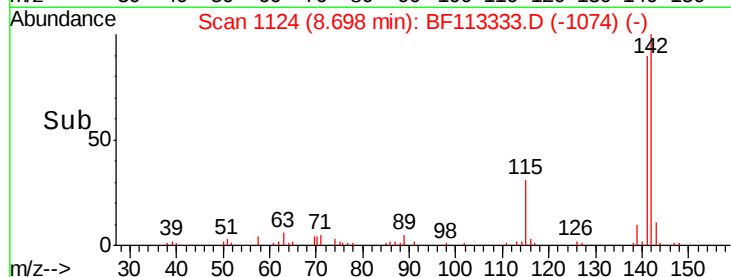
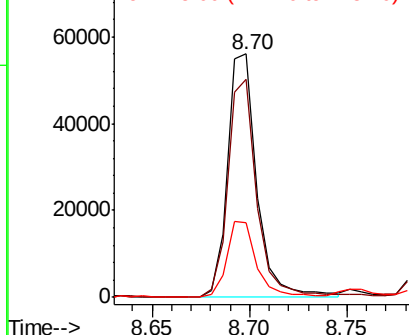


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 2.097 ng
RT: 8.79 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

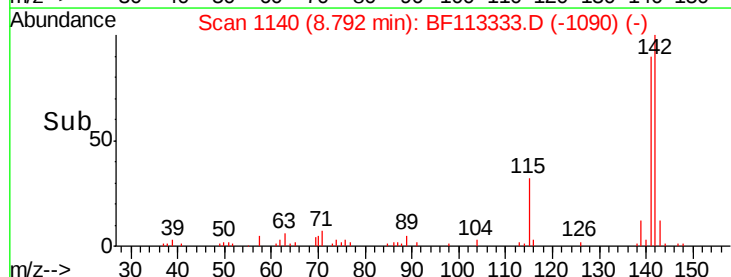
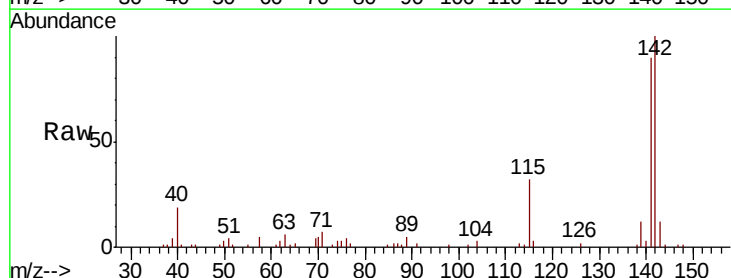
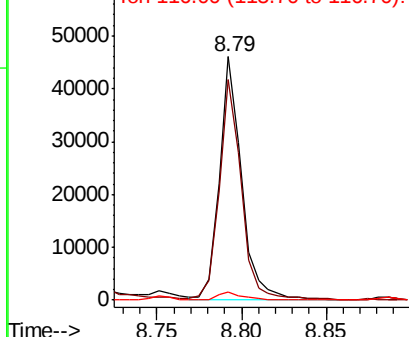
Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.4	73.2	109.8
116	3.4	3.0	4.4

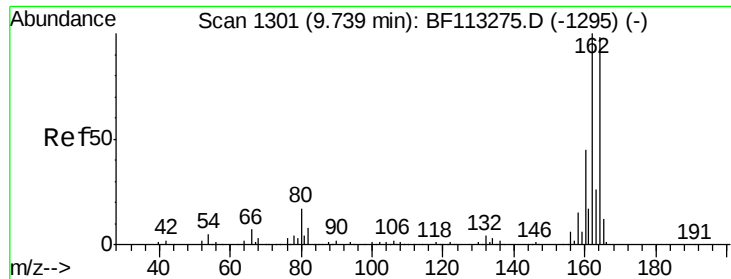
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





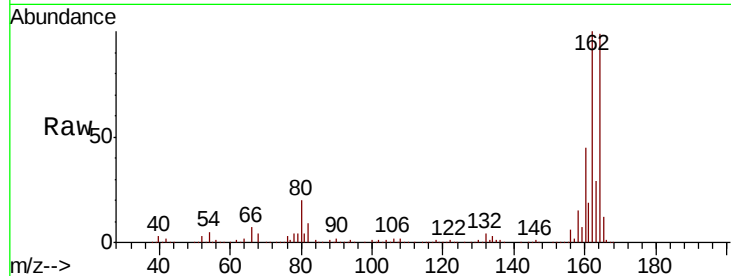
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.73 min Scan# 1300
 Delta R.T. -0.01 min
 Lab File: BF113333.D
 Acq: 27 Mar 2019 16:19

Instrument :
 BNA_F
 ClientSampled :
 CS-13

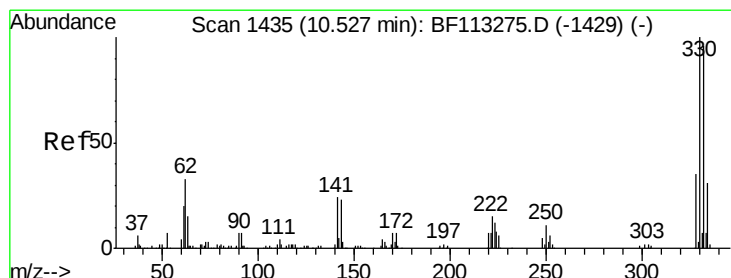
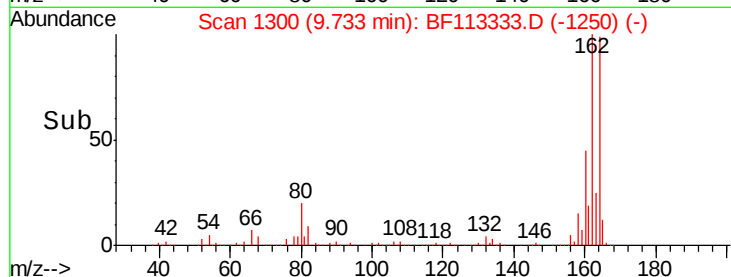
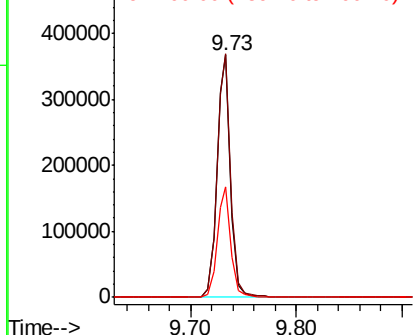
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.6	81.8	122.6	
160	45.6	36.4	54.6	

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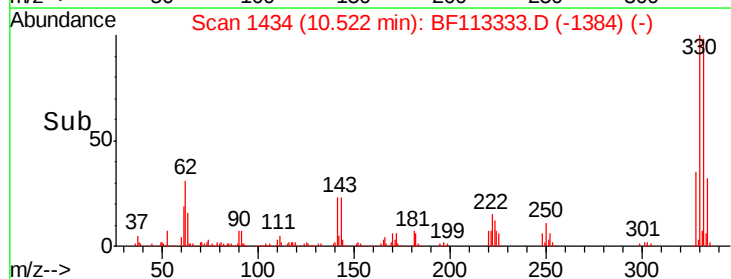
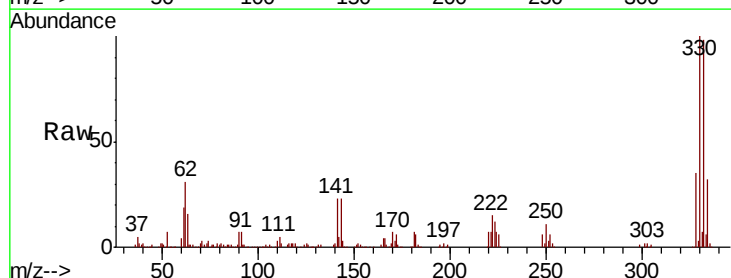
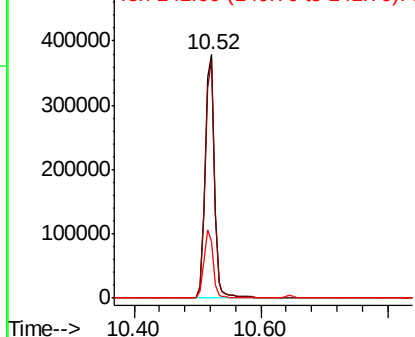
Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

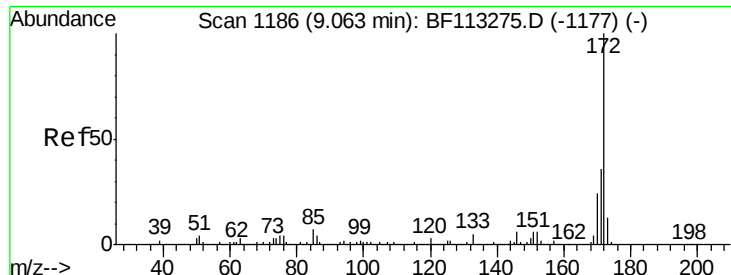


#42
 2,4,6-Tribromophenol
 Concen: 93.274 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF113333.D
 Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.4	77.8	116.6	
141	28.3	22.7	34.1	

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





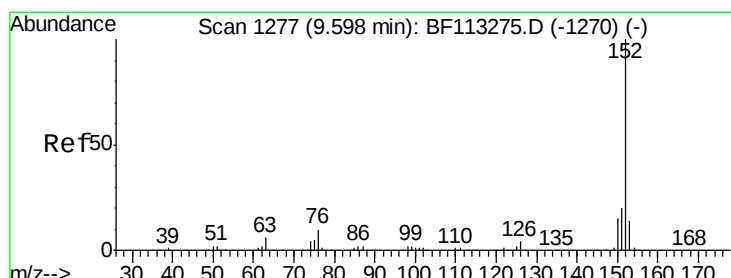
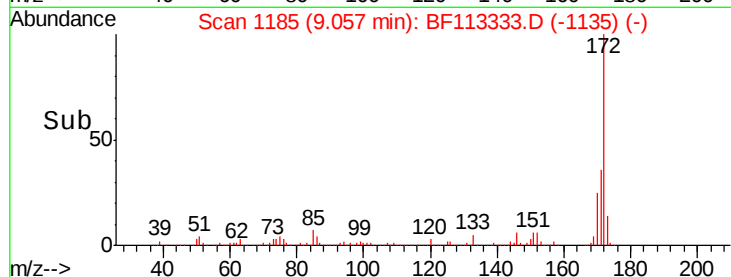
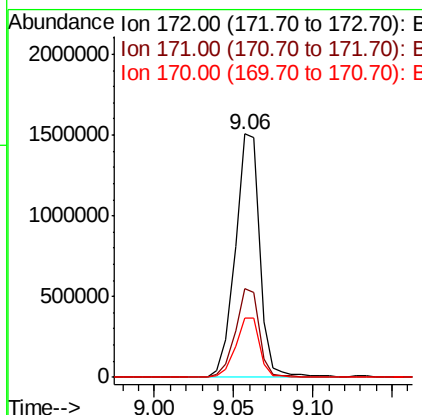
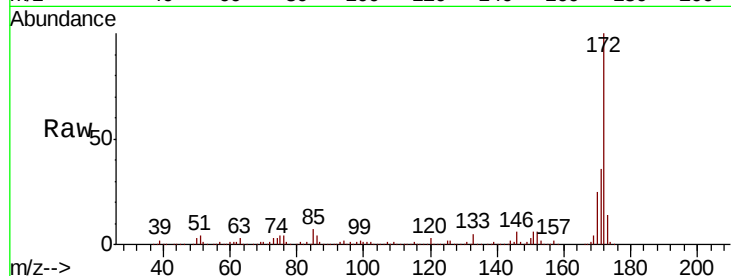
#45
2-Fluorobiphenyl
Concen: 74.529 ng
RT: 9.06 min Scan# 1185
Delta R.T. -0.00 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ion	Ratio	Lower	Upper
172	100			
171	36.3	29.0	43.6	
170	24.6	19.5	29.3	

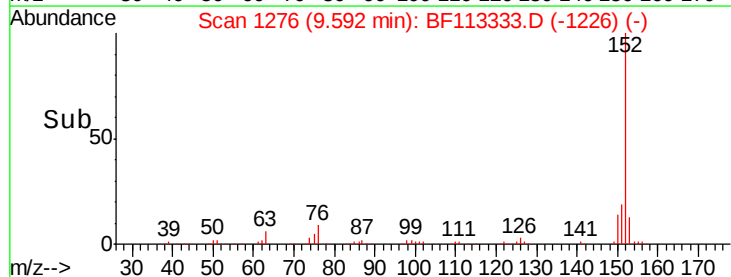
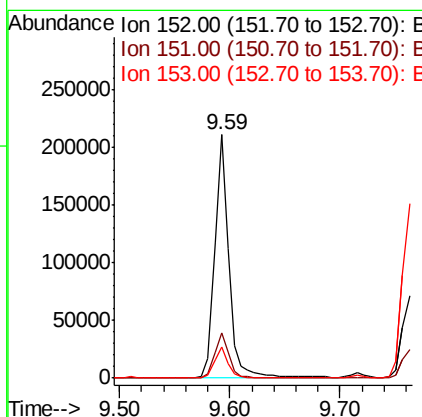
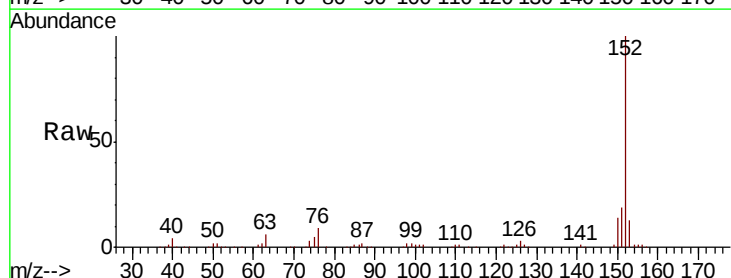
Manual Integrations
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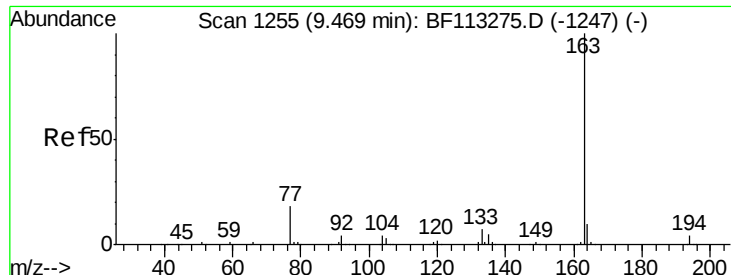
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#49
Acenaphthylene
Concen: 5.435 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion	Ion	Ratio	Lower	Upper
152	100			
151	18.7	16.2	24.4	
153	12.7	11.0	16.6	





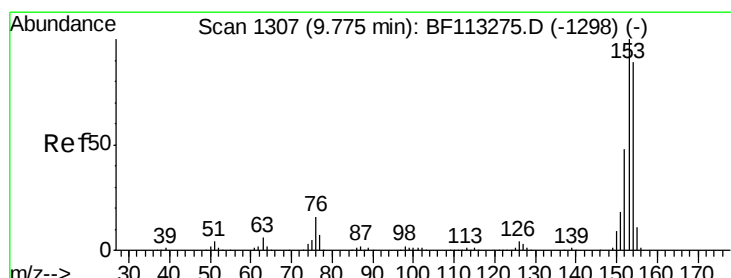
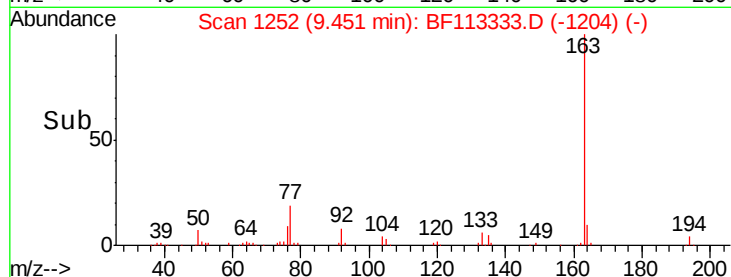
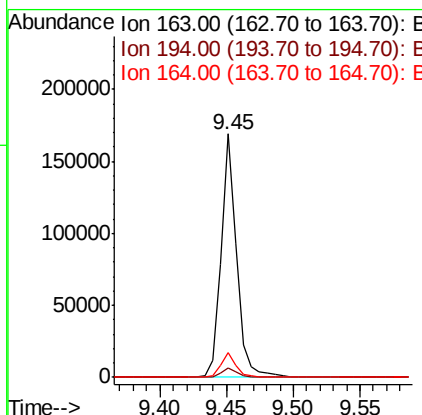
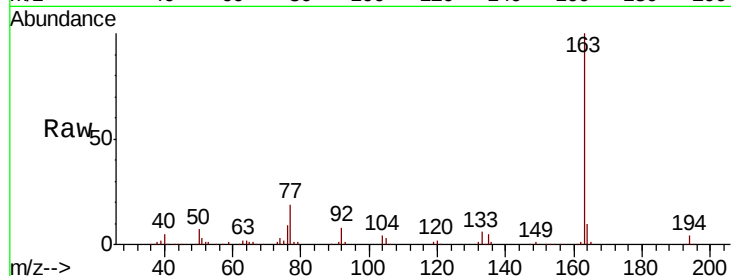
#50
Dimethylphthalate
Concen: 5.705 ng
RT: 9.45 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Resp	Lower	Upper
163	100	139797		
194	3.7		3.0	4.6
164	10.3		8.1	12.1

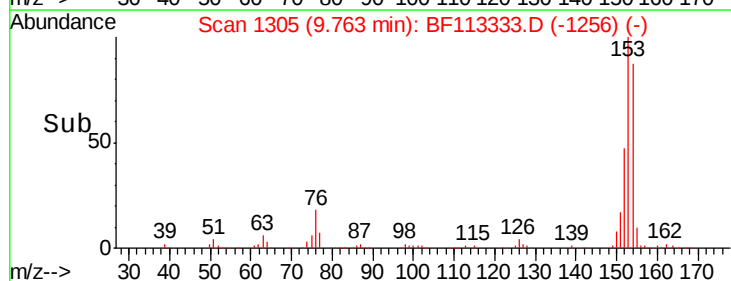
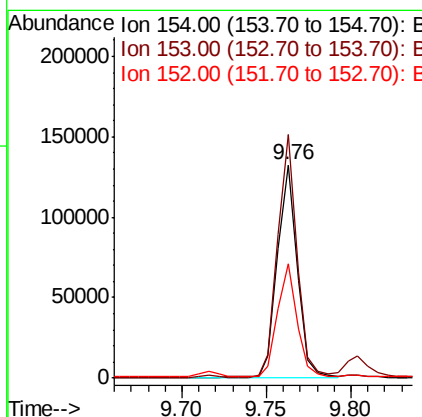
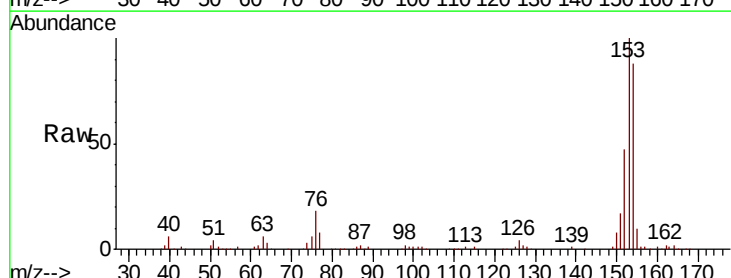
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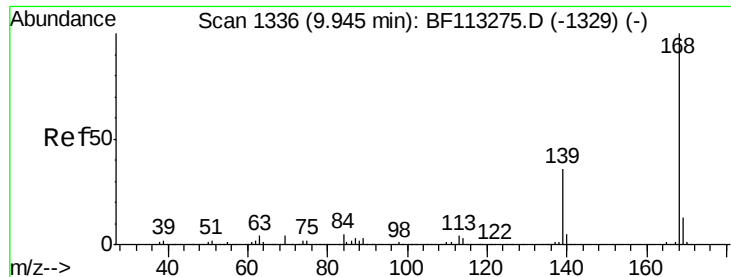
Sohil
3/28/2019 8:41:56 AM



#52
Acenaphthene
Concen: 5.670 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	109777		
153	114.3		89.5	134.3
152	53.8		43.3	64.9





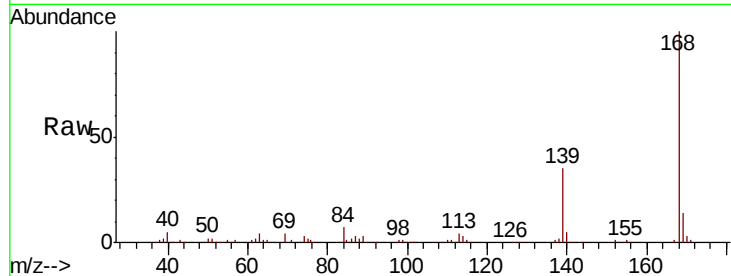
#55
Dibenzenofuran
Concen: 6.003 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.0	29.7	44.5
169	13.8	10.7	16.1

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Sohil
3/28/2019 8:41:56 AM

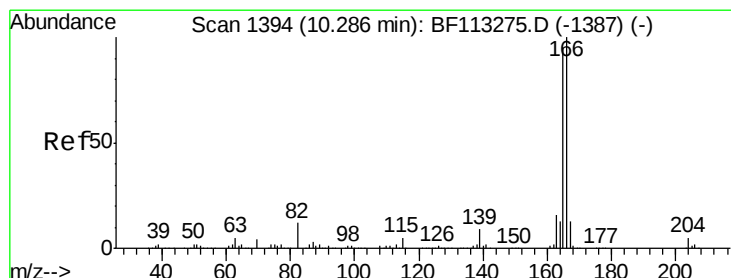
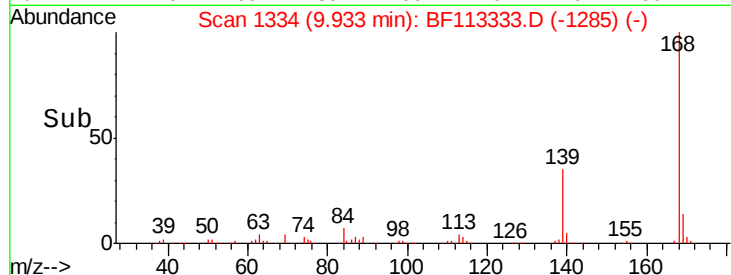
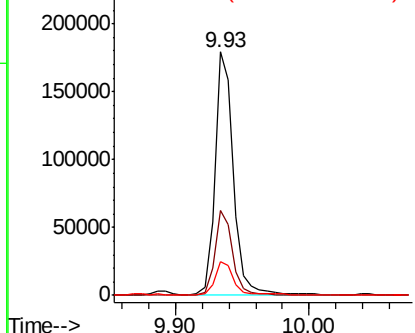


Abundance

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: 6.135 ng
RT: 10.27 min Scan# 1392
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

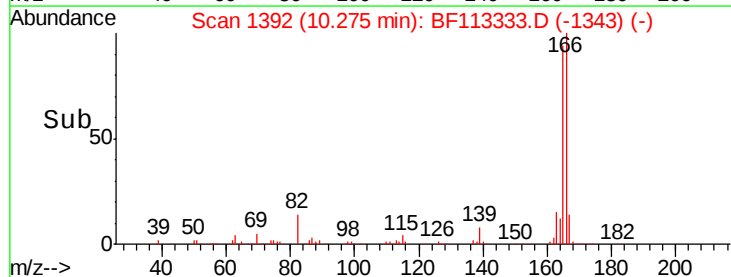
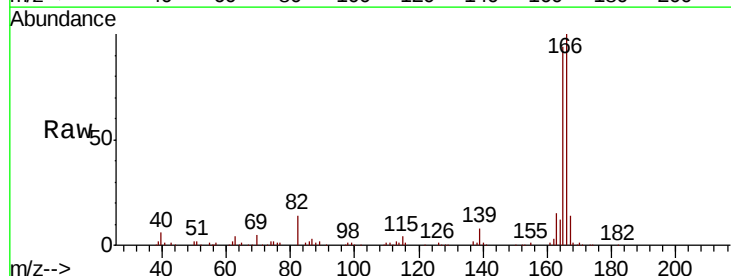
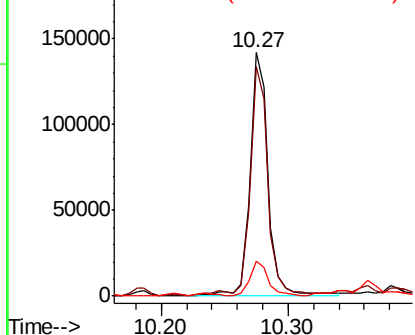
Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.2	76.2	114.2
167	14.4	10.7	16.1

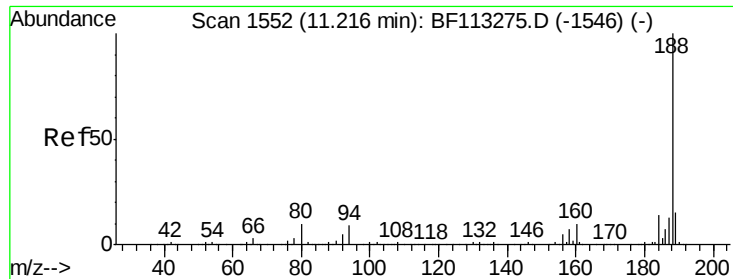
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





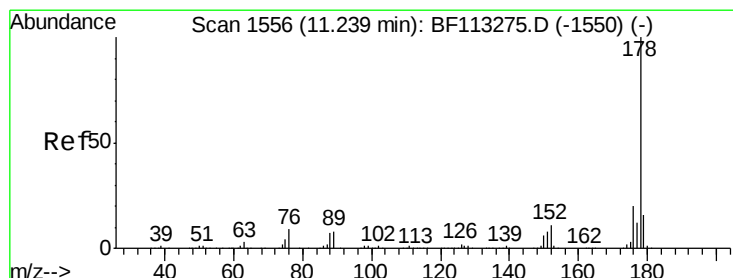
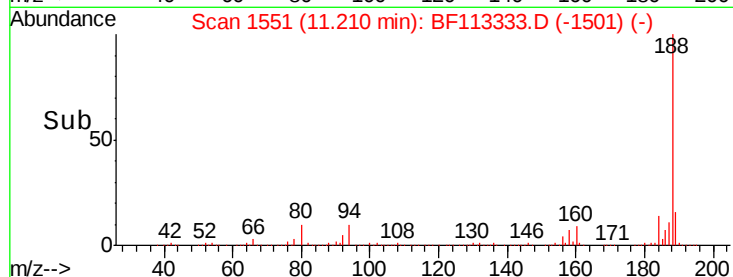
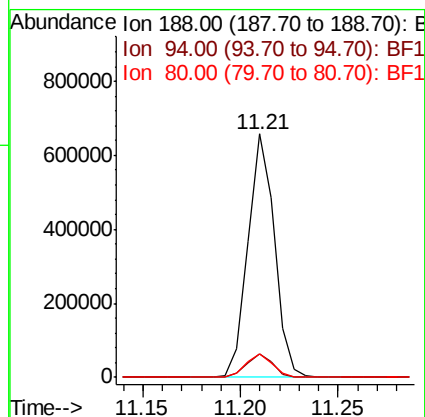
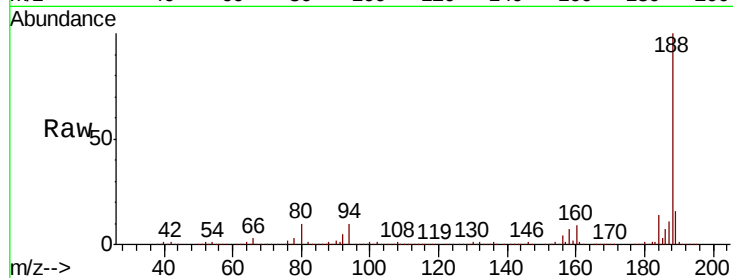
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Resp	Lower	Upper
188	100	621722		
94	9.5	7.0	10.6	
80	9.8	7.7	11.5	

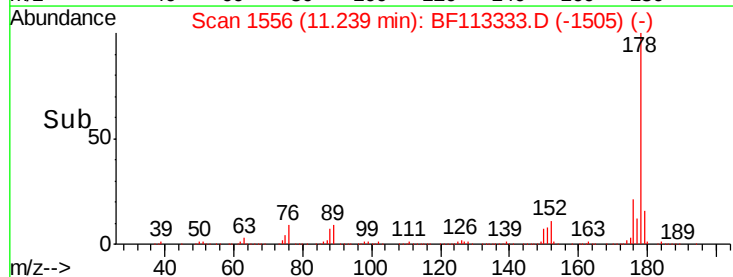
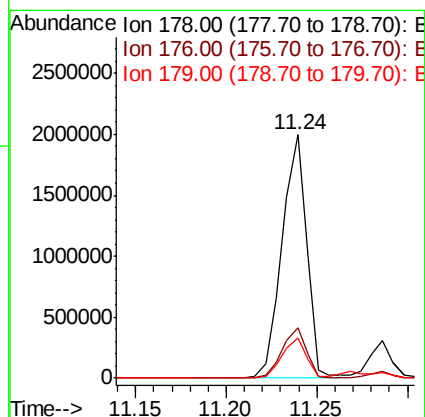
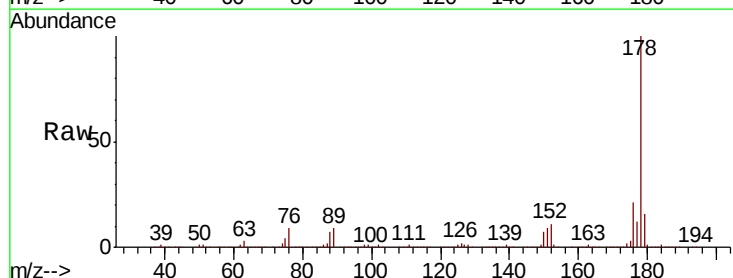
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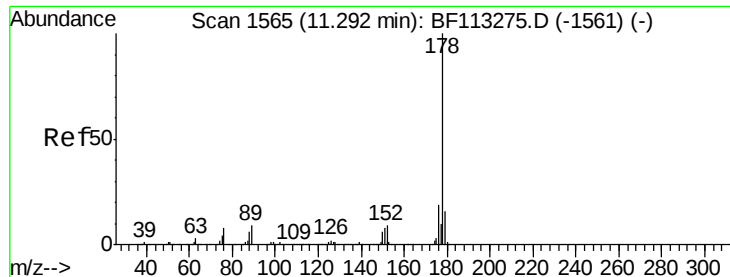
Sohil
3/28/2019 8:41:56 AM



#71
Phenanthrene
Concen: 61.329 ng
RT: 11.24 min Scan# 1556
Delta R.T. 0.00 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1893515		
176	20.7	16.2	24.2	
179	16.3	12.7	19.1	





#72

Anthracene

Concen: 7.997 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA_F

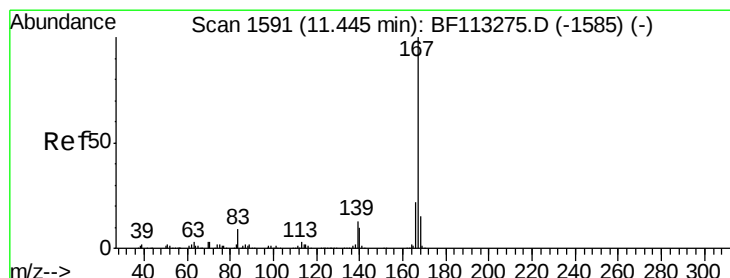
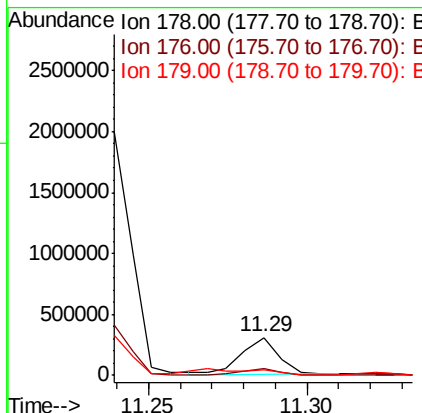
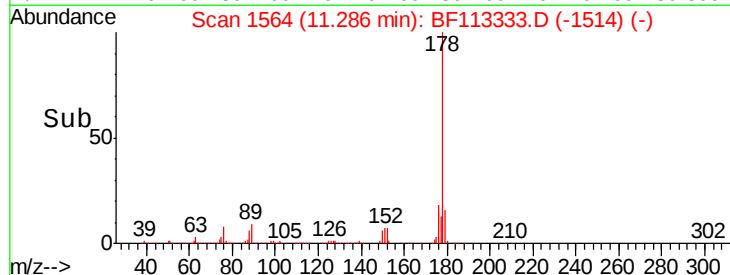
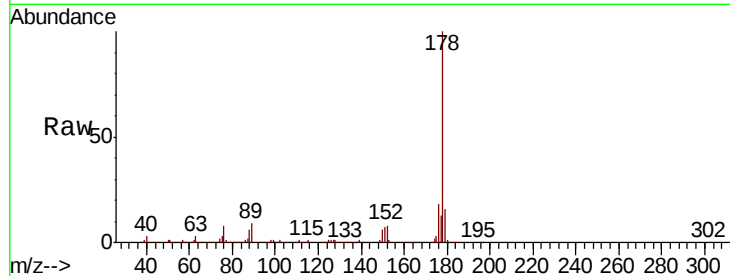
ClientSampled :

CS-13

Tot Ion:	178	Resp:	250792
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.4	23.2
179	16.0	12.8	19.2

Manual Integrations
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#73

Carbazole

Concen: 12.654 ng

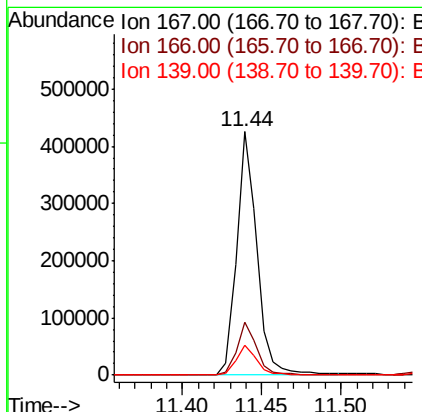
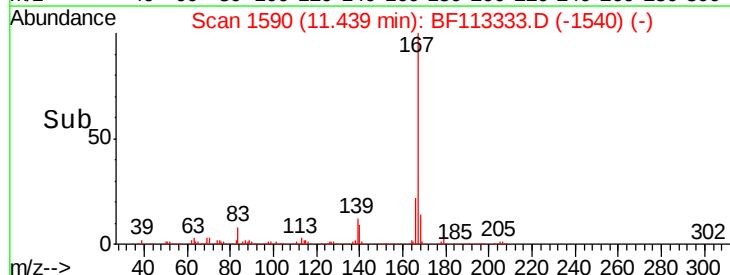
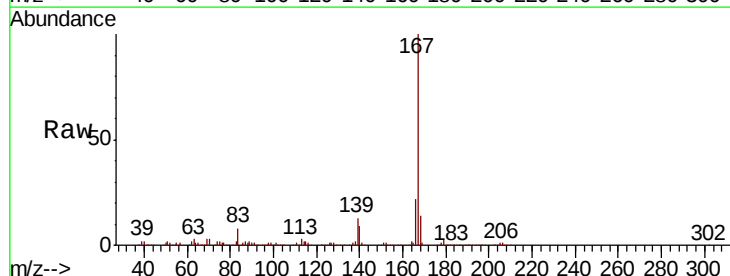
RT: 11.44 min Scan# 1590

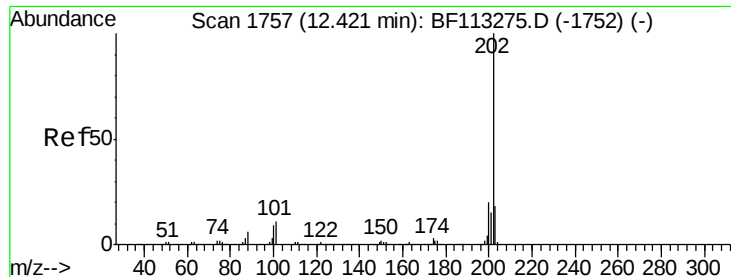
Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Tgt Ion:	167	Resp:	378666
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.4	26.0
139	12.5	10.4	15.6





#75

Fluoranthene

Concen: 111.953 ng

RT: 12.43 min Scan# 1759

Delta R.T. 0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA_F

ClientSampleId :

CS-13

Tot Ion:202 Resp: 3907558

Ion Ratio Lower Upper

202 100

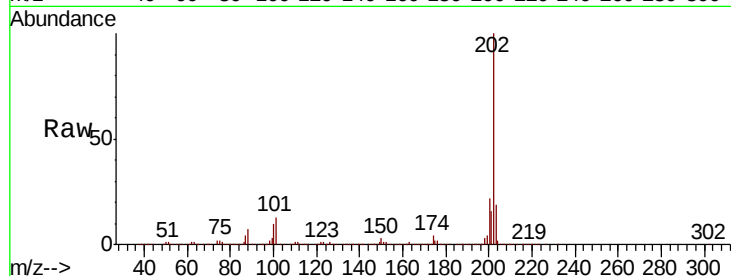
101 12.7 0.0 31.4

203 19.4 0.0 38.0

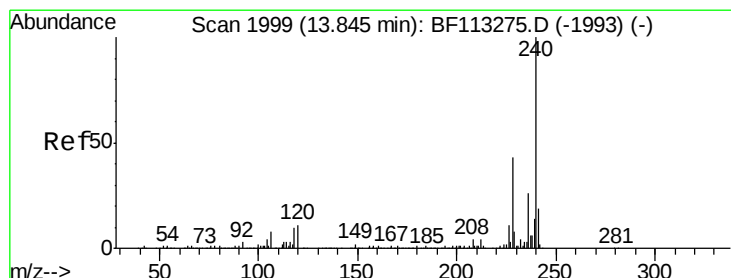
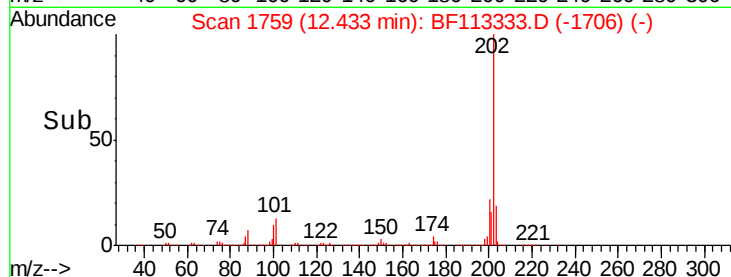
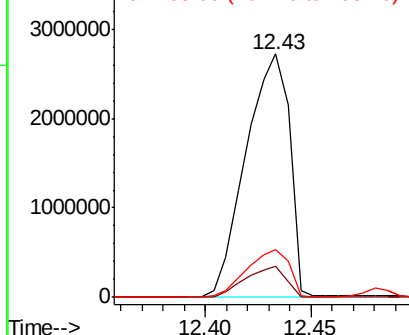
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

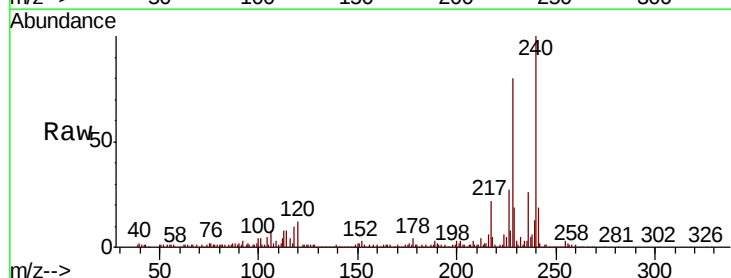
Tgt Ion:240 Resp: 409456

Ion Ratio Lower Upper

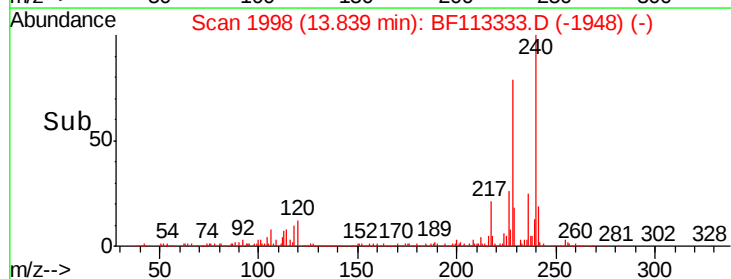
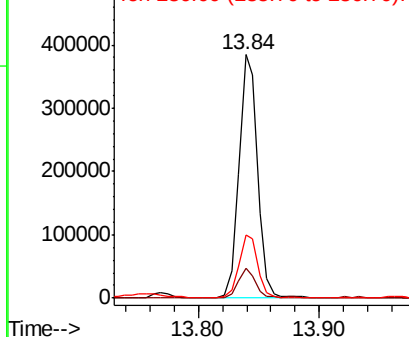
240 100

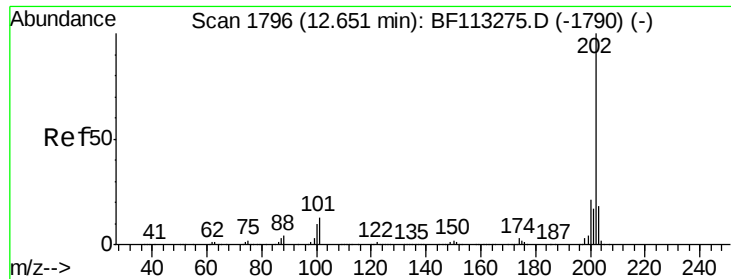
120 12.1 8.8 13.2

236 25.7 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





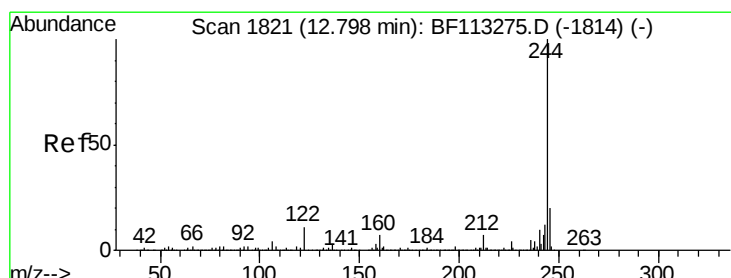
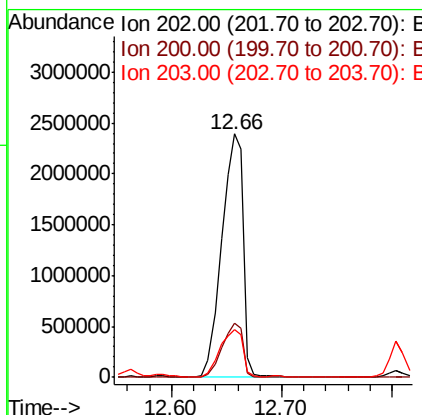
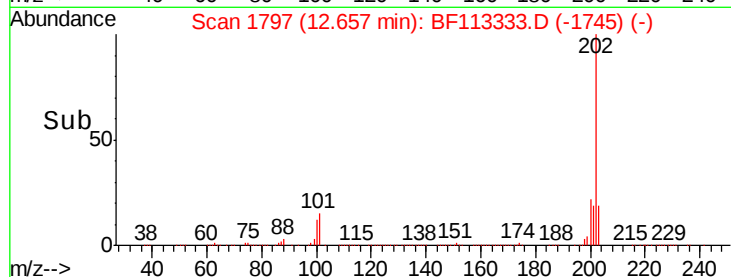
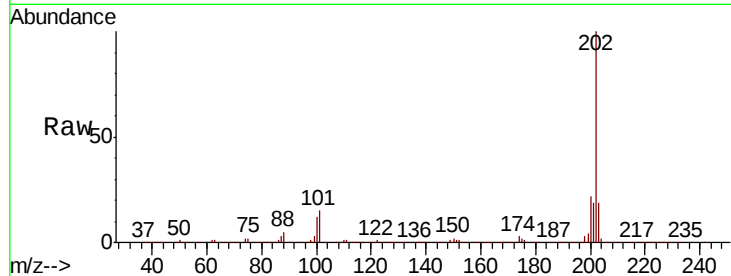
#78
Pvrene
Concen: 112.756 ng
RT: 12.66 min Scan# 1797
Delta R.T. 0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.2	16.8	25.2
203	19.5	14.4	21.6

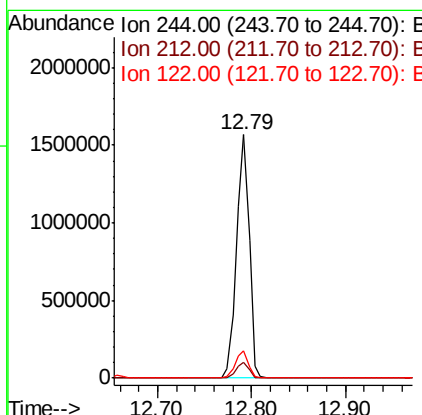
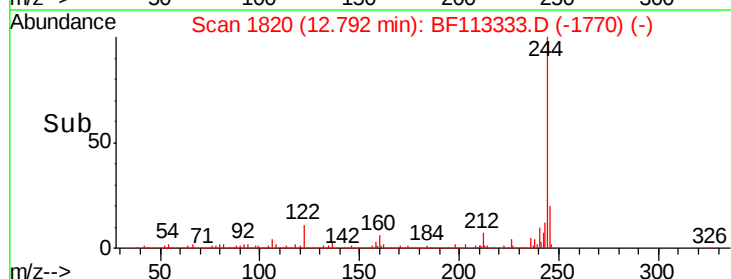
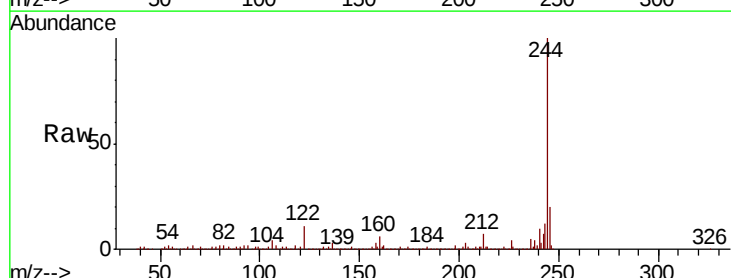
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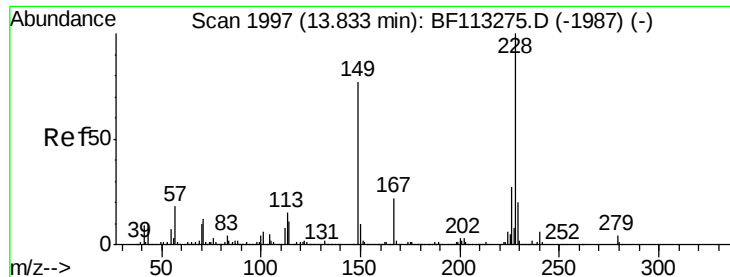
Sohil
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#79
Terphenyl-d14
Concen: 78.980 ng
RT: 12.79 min Scan# 1820
Delta R.T. -0.00 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.5	8.3
122	11.0	8.6	13.0





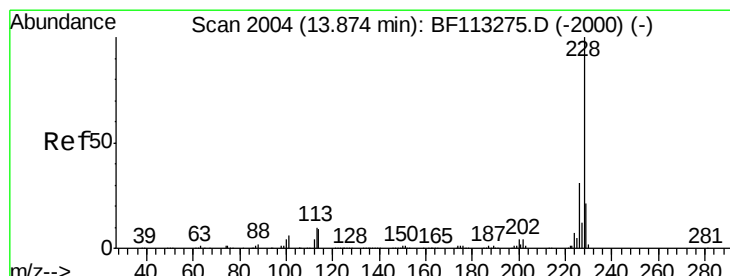
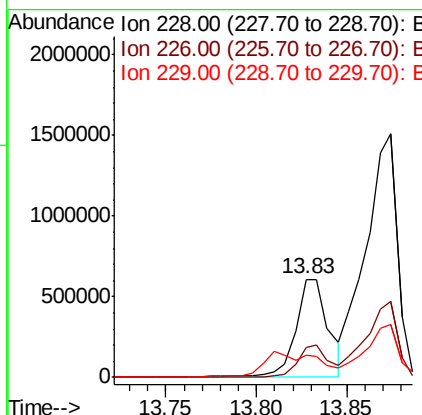
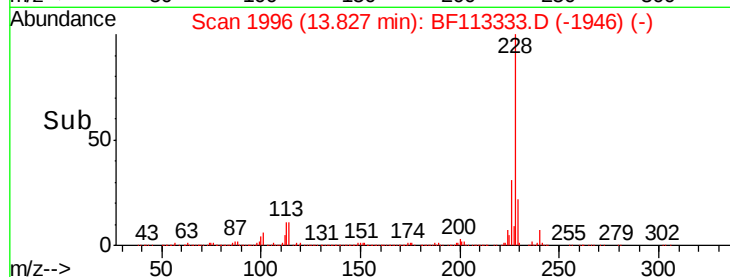
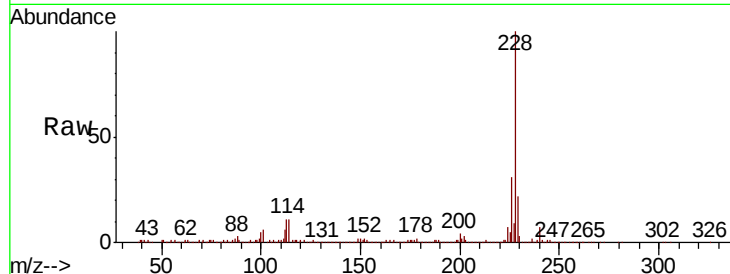
#81
Benzo(a)anthracene
Concen: 32.683 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	21.8	32.8
229	22.1	16.2	24.4

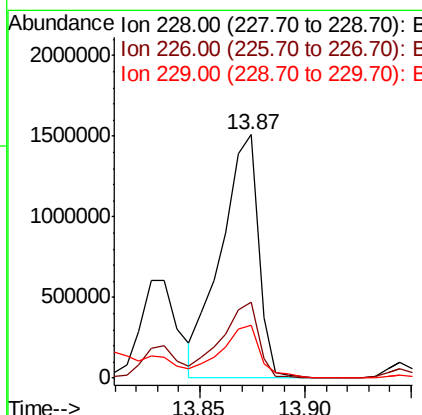
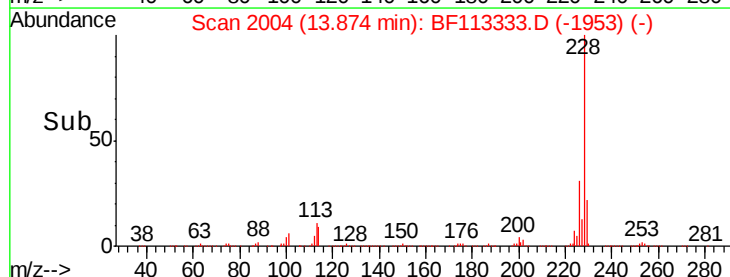
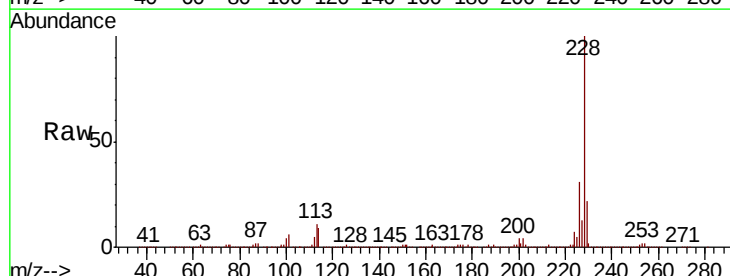
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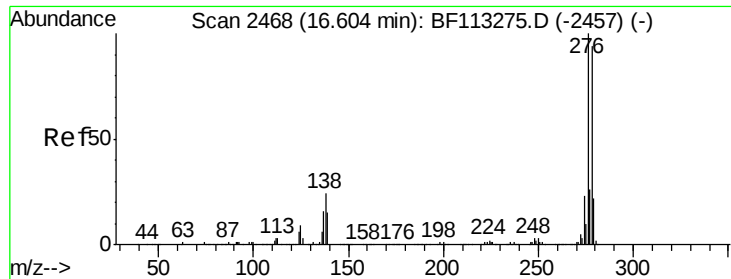
Sohil
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#83
Chrysene
Concen: 77.616 ng
RT: 13.87 min Scan# 2004
Delta R.T. 0.00 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.3	36.5
229	22.0	16.3	24.5





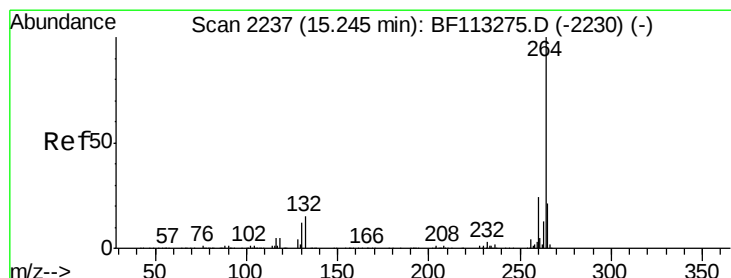
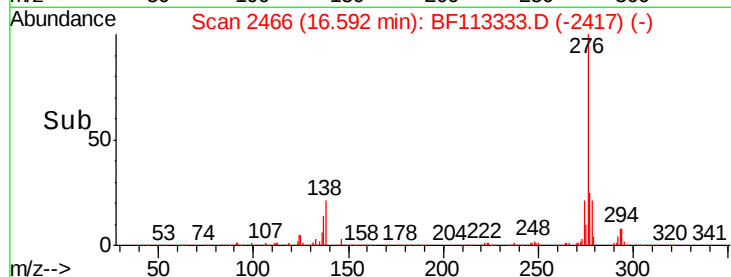
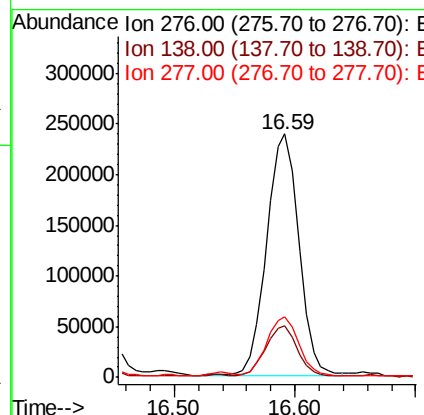
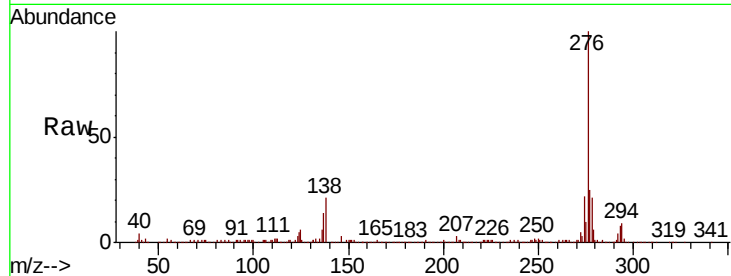
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 21.636 ng
 RT: 16.59 min Scan# 2466
 Delta R.T. -0.01 min
 Lab File: BF113333.D
 Acq: 27 Mar 2019 16:19

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.9	18.1	27.1
277	24.1	20.2	30.4

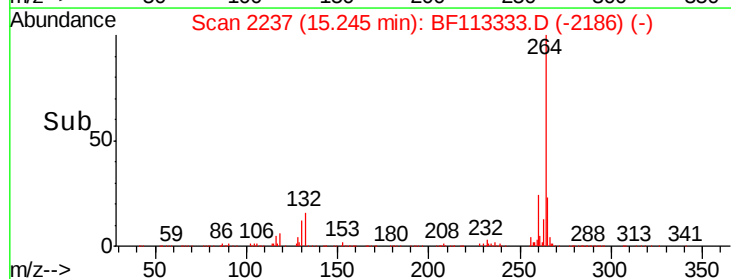
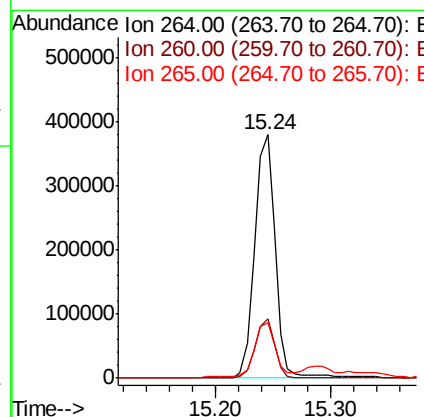
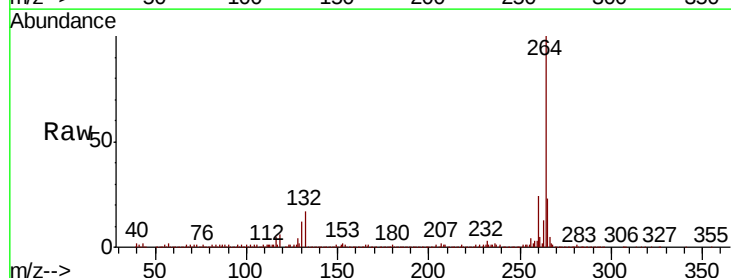
Manual Integrations
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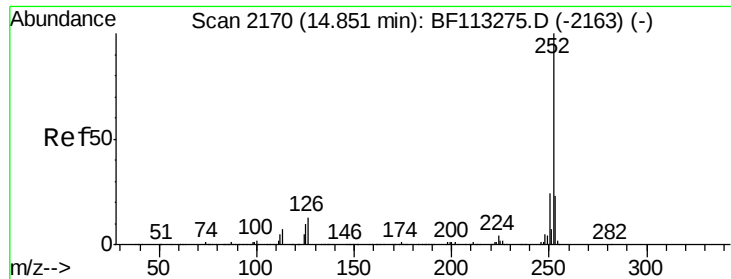
Sohil
 3/28/2019 8:41:56 AM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.24 min Scan# 2237
 Delta R.T. 0.00 min
 Lab File: BF113333.D
 Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.1	28.7
265	22.8	17.1	25.7





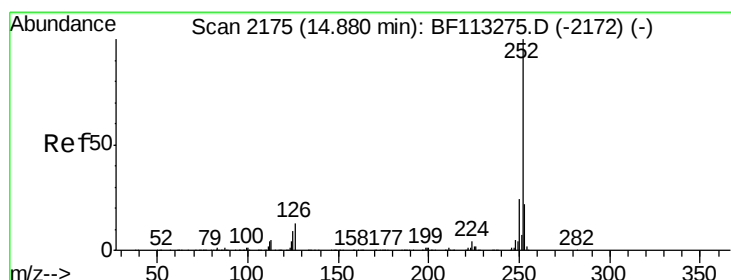
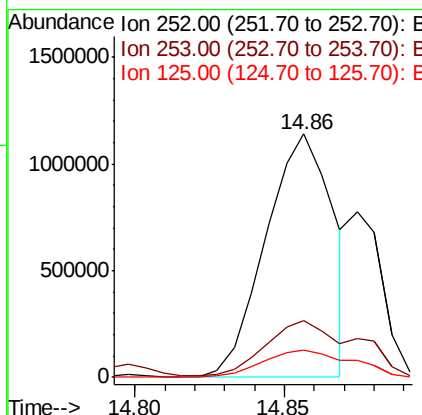
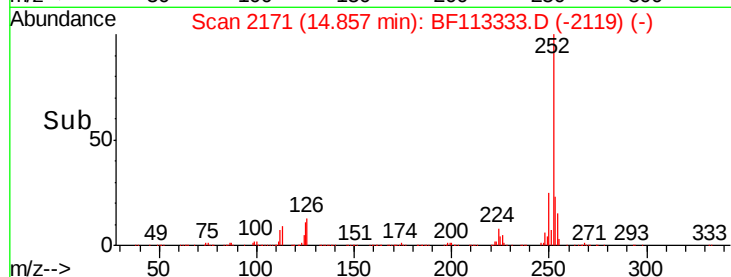
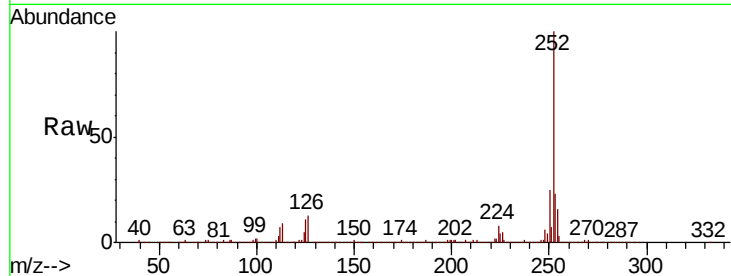
#88
Benzo(b)fluoranthene
Concen: 61.530 ng m
RT: 14.86 min Scan# 2171
Delta R.T. 0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion:252 Resp: 1794003
Ion Ratio Lower Upper
252 100
253 23.3 18.0 27.0
125 11.2 7.6 11.4

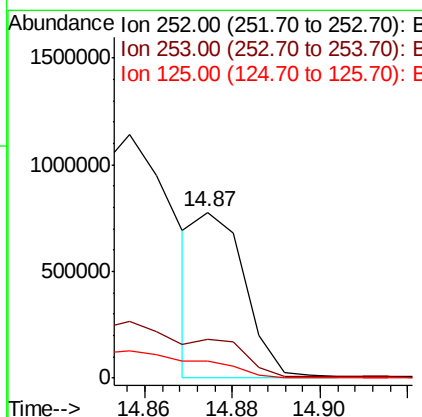
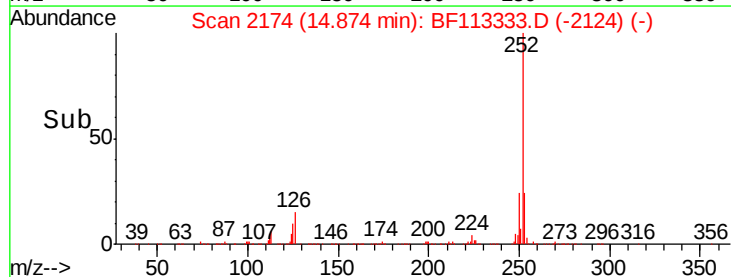
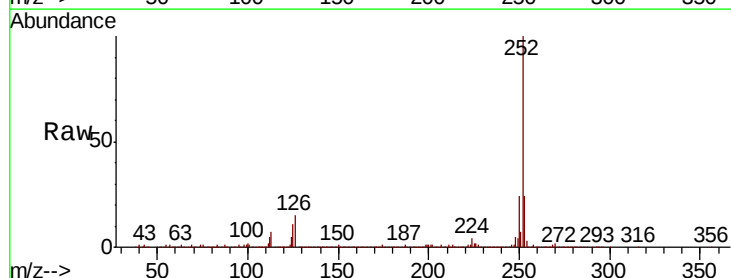
Manual Integrations
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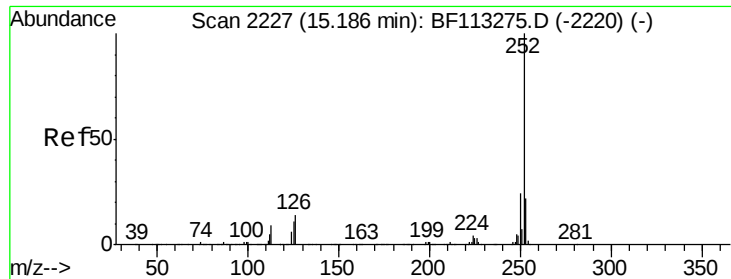
Sohil
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#89
Benzo(k)fluoranthene
Concen: 23.469 ng m
RT: 14.87 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion:252 Resp: 600908
Ion Ratio Lower Upper
252 100
253 23.7 17.7 26.5
125 10.7 7.3 10.9





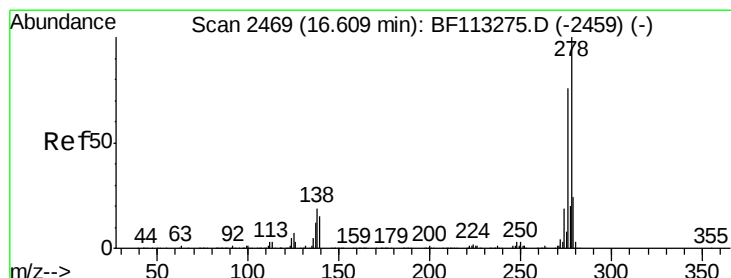
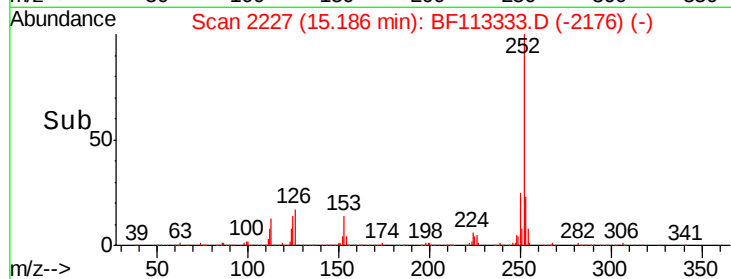
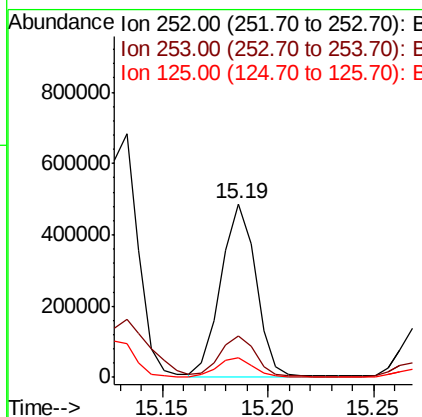
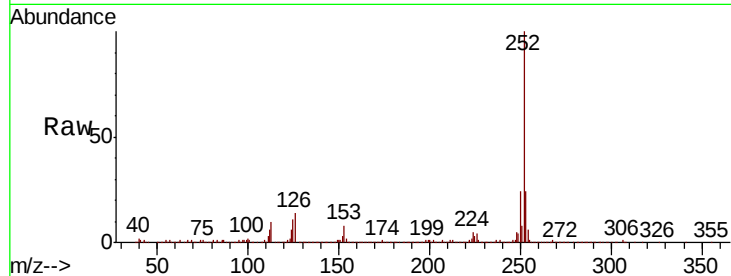
#90
Benzo(a)pyrene
Concen: 21.490 ng
RT: 15.19 min Scan# 2227
Delta R.T. 0.00 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	11.1	8.8	13.2

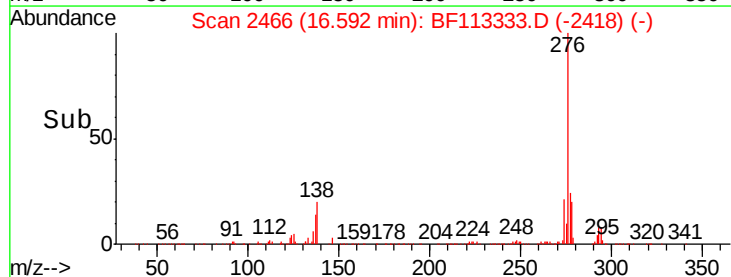
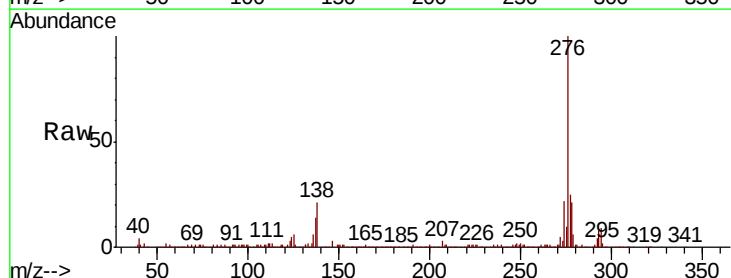
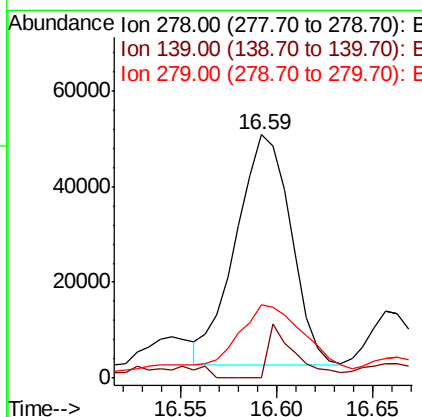
Manual Integrations
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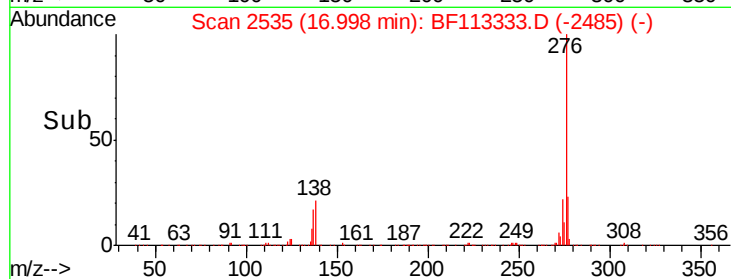
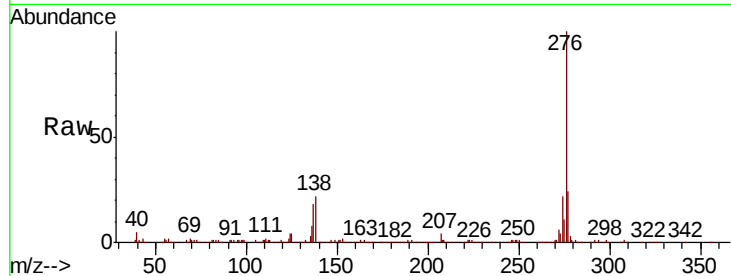
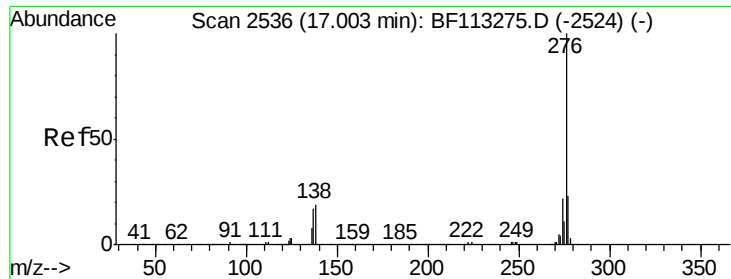
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#91
Dibenzo(a,h)anthracene
Concen: 4.253 ng m
RT: 16.59 min Scan# 2466
Delta R.T. -0.02 min
Lab File: BF113333.D
Acq: 27 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.0	18.0#
279	30.2	19.0	28.6#





#92

Benzo(a,h,i)perylene

Concen: 16.165 ng

RT: 17.00 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF113333.D

Acq: 27 Mar 2019 16:19

Instrument :

BNA_F

ClientSampleId :

CS-13

Tot Ion:	276	Resp:	364276
Ion Ratio	Lower	Upper	
276	100		
277	24.0	18.8	28.2
138	21.6	15.6	23.4

Manual Integrations
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