

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\
 Data File : BF112894.D
 Acq On : 6 Mar 2019 21:01
 Operator : JU/SJ
 Sample : K1753-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-5

Manual Integrations
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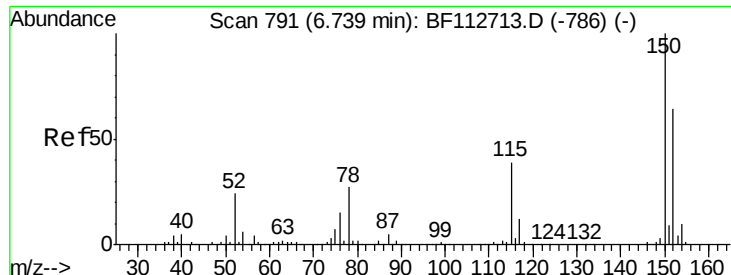
Quant Time: Mar 07 04:40:18 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	211722	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	762078	20.00	ng	-0.01
39) Acenaphthene-d10	9.76	164	377963	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	508622	20.00	ng	0.00
76) Chrysene-d12	13.86	240	481176	20.00	ng	-0.01
87) Perylene-d12	15.27	264	491932	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	1182325	86.87	ng	0.00
7) Phenol-d6	6.37	99	1499506	87.70	ng	0.00
23) Nitrobenzene-d5	7.29	82	899051	70.59	ng	-0.02
42) 2,4,6-Tribromophenol	10.54	330	363974	90.71	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	1499202	61.00	ng	-0.01
79) Terphenyl-d14	12.82	244	1191964	48.02	ng	-0.01

Target Compounds				Qvalue		
10) Phenol	6.37	94	58779	2.946	ng	97
31) Naphthalene	8.03	128	145383	3.843	ng	97
49) Acenaphthylene	9.62	152	239567	5.862	ng	97
50) Dimethylphthalate	9.48	163	98699	3.542	ng	98
55) Dibenzofuran	9.96	168	163467	4.706	ng	96
58) Fluorene	10.30	166	112268	4.554	ng	97
71) Phenanthrene	11.26	178	1660608	65.621	ng	99
72) Anthracene	11.31	178	102971	3.887	ng	97
73) Carbazole	11.46	167	151220	5.852	ng	97
75) Fluoranthene	12.45	202	2229055	82.215	ng	98
78) Pyrene	12.67	202	1822227	44.922	ng	99
81) Benzo(a)anthracene	13.85	228	853332	25.588	ng	94
83) Chrysene	13.89	228	1097760	33.605	ng	98
86) Indeno(1,2,3-cd)pyrene	16.63	276	641789	23.045	ng	# 91
88) Benzo(b)fluoranthene	14.87	252	1400812m	44.024	ng	
89) Benzo(k)fluoranthene	14.90	252	385039m	13.359	ng	
90) Benzo(a)pyrene	15.22	252	801661m	28.483	ng	
91) Dibenzo(a,h)anthracene	16.63	278	170410	7.096	ng	97
92) Benzo(a,h,i)perylene	17.03	276	560838	23.256	ng	94

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



#1

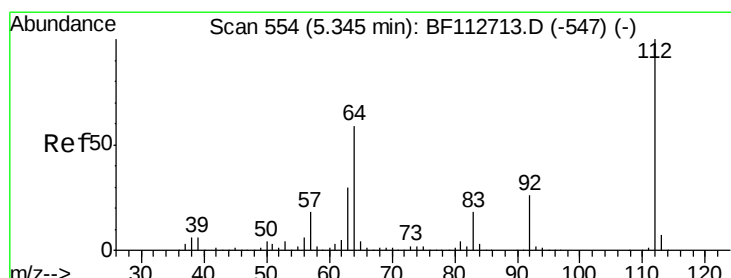
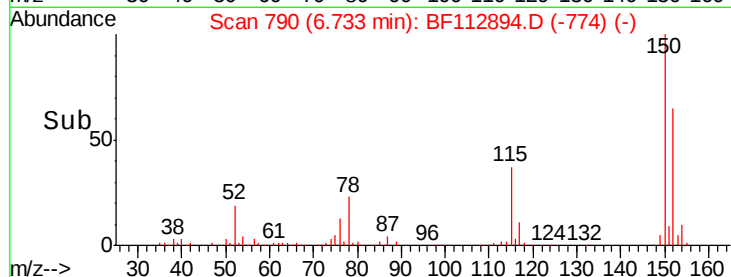
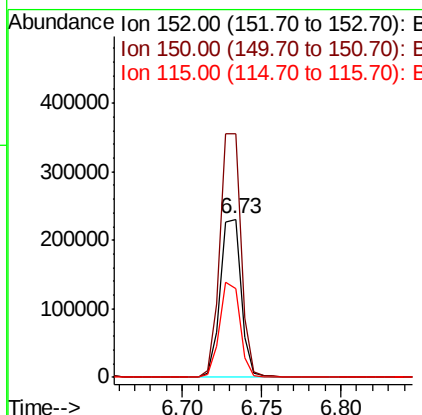
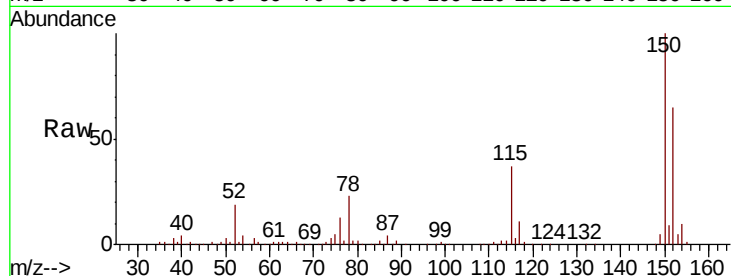
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 790
 Delta R.T. -0.01 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Instrument :
 BNA_F
 ClientSampled :
 Z-2-5

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.2	186.2
115	56.4	48.2	72.4

Manual Integrations
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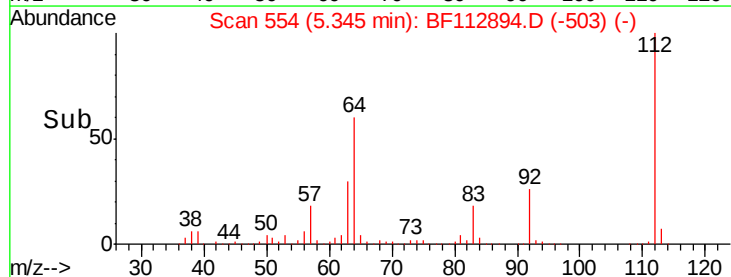
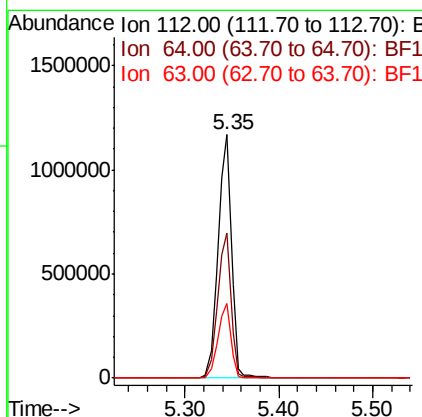
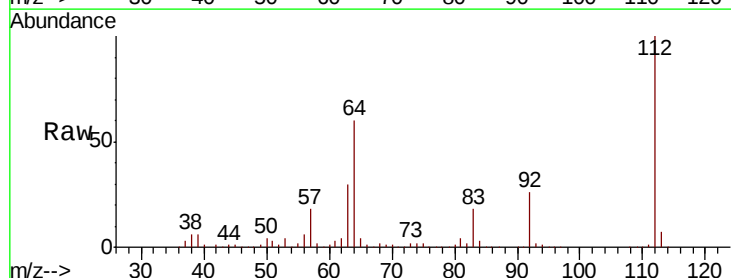
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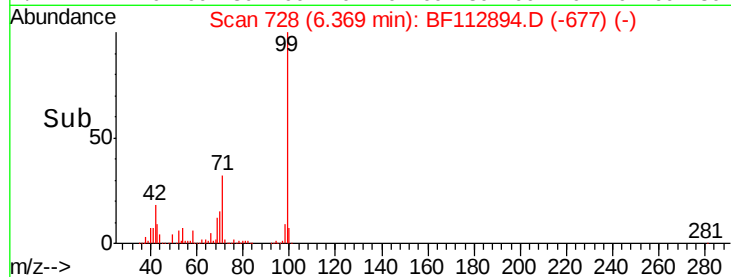
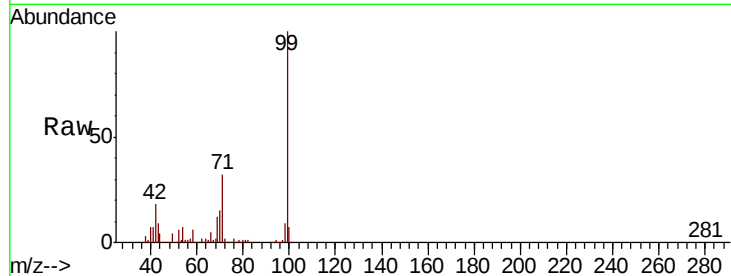
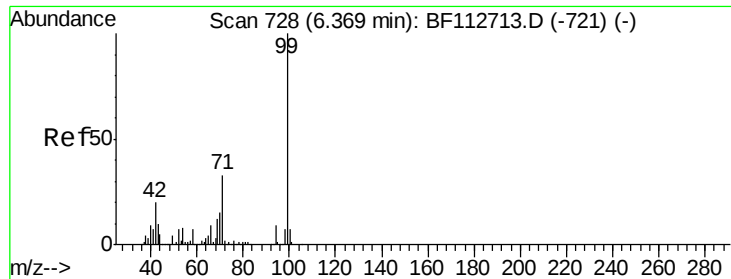


#5

2-Fluorophenol
 Concen: 86.867 ng
 RT: 5.35 min Scan# 554
 Delta R.T. -0.00 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.8	47.6	71.4
63	30.4	24.4	36.6





#7

Phenol-d6

Concen: 87.704 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF112894.D

Acq: 6 Mar 2019 21:01

Tot Ion:	99	Resp:	1499506
Ion	Ratio	Lower	Upper
99	100		
42	18.1	16.3	24.5
71	31.6	26.2	39.4

Instrument :

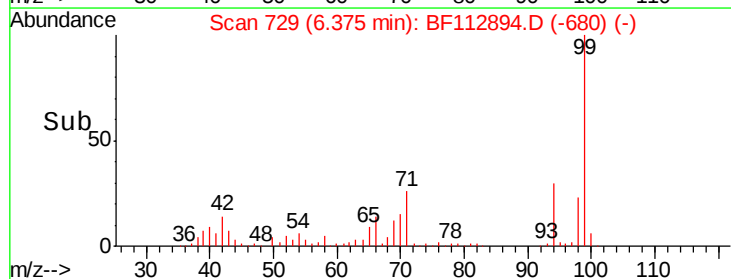
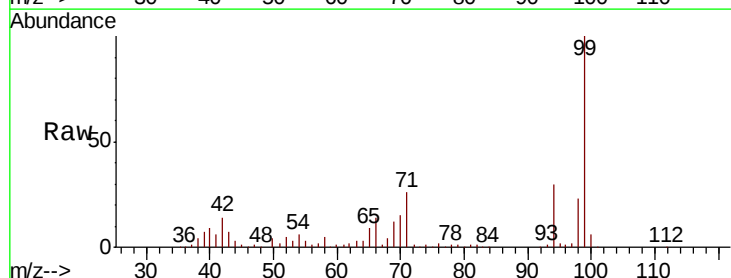
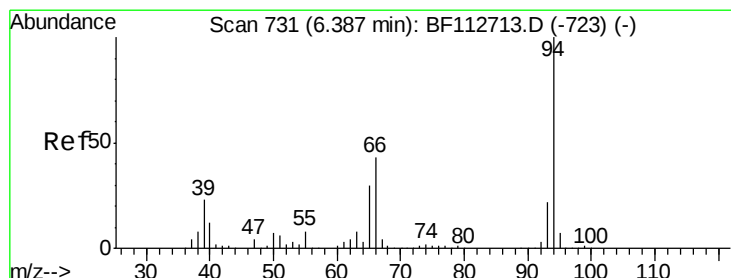
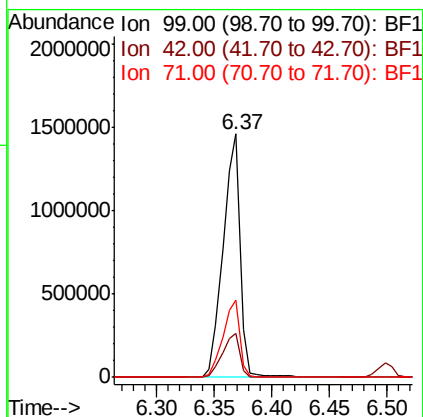
BNA_F

ClientSampled :

Z-2-5

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#10

Phenol

Concen: 2.946 ng

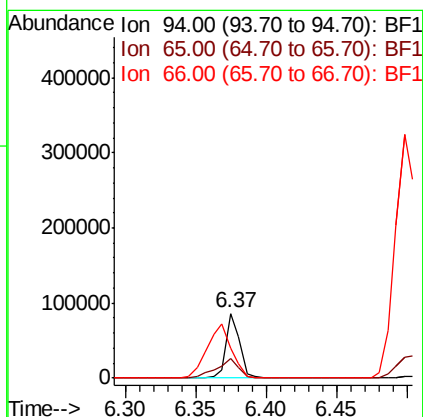
RT: 6.37 min Scan# 729

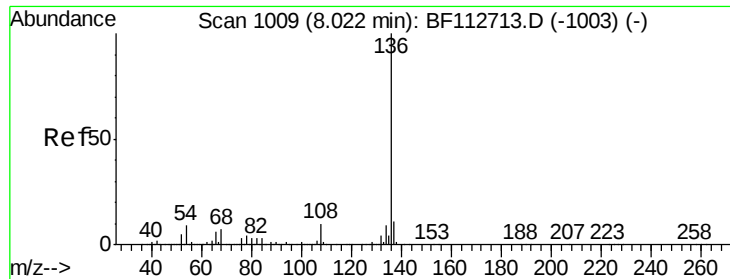
Delta R.T. -0.01 min

Lab File: BF112894.D

Acq: 6 Mar 2019 21:01

Tgt Ion:	94	Resp:	58779
Ion	Ratio	Lower	Upper
94	100		
65	29.9	10.5	50.5
66	45.6	22.6	62.6





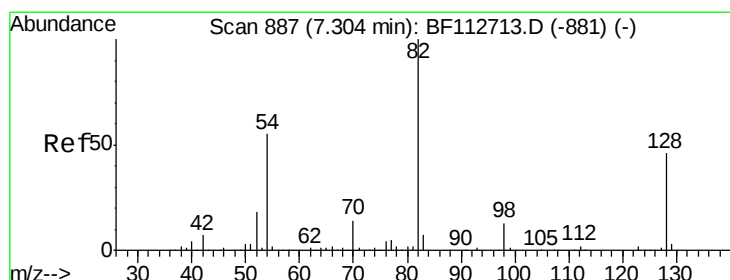
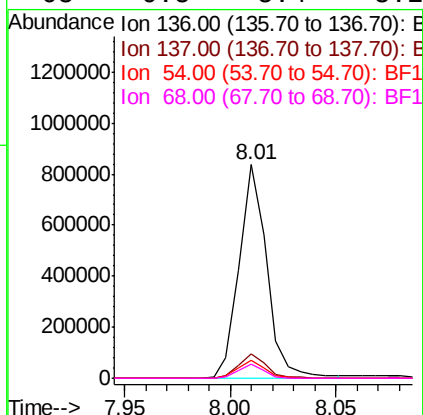
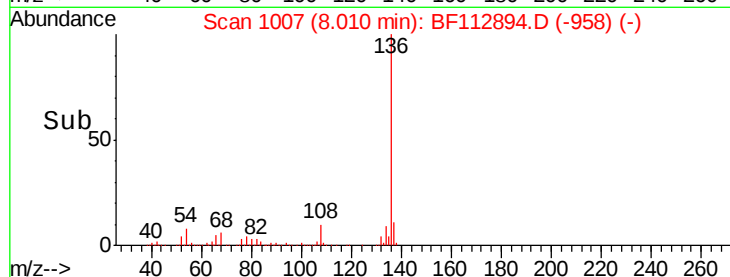
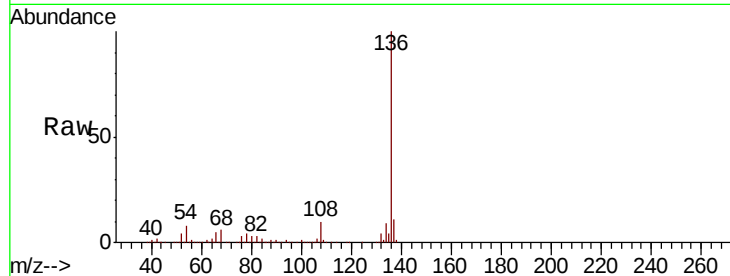
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Instrument :
BNA_F
ClientSampleId :
Z-2-5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		762078		
137	11.2	8.9	13.3		
54	8.4	7.3	10.9		
68	6.5	5.4	8.2		

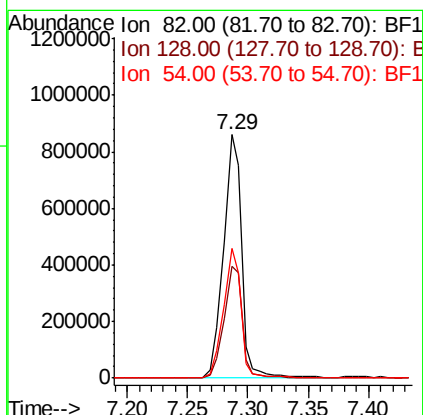
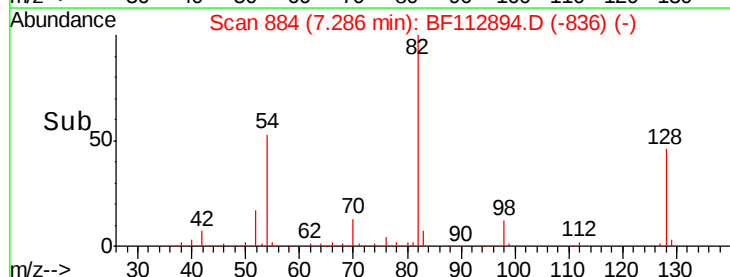
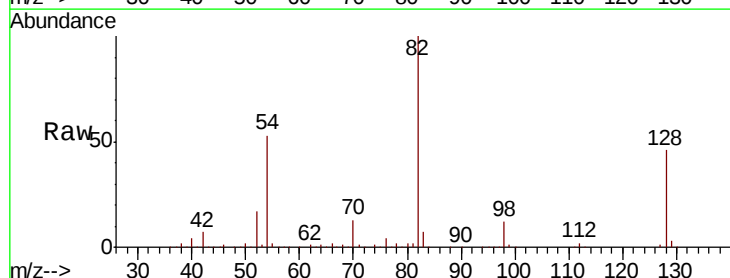
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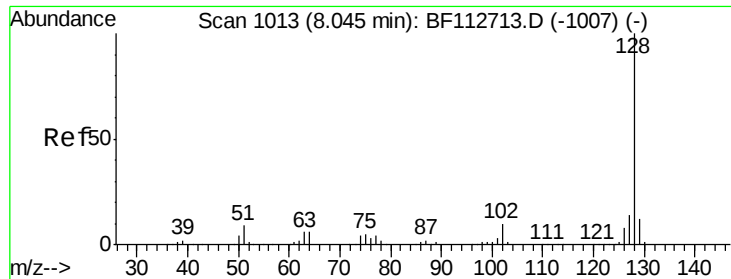
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#23
Nitrobenzene-d5
Concen: 70.593 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.02 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		899051		
128	45.9	36.3	54.5		
54	53.4	43.7	65.5		





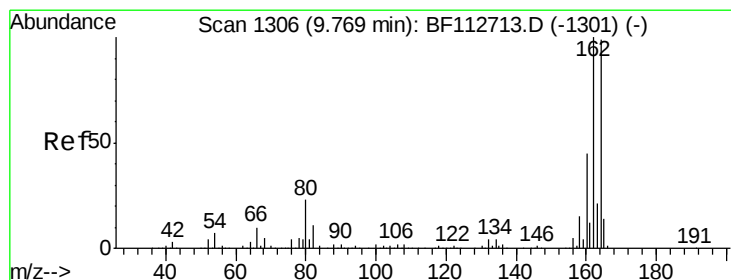
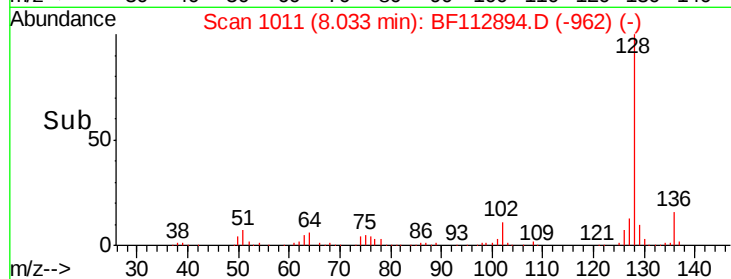
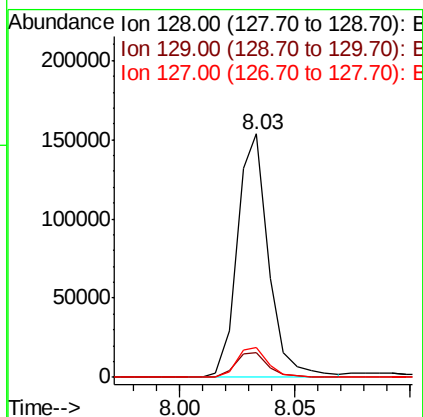
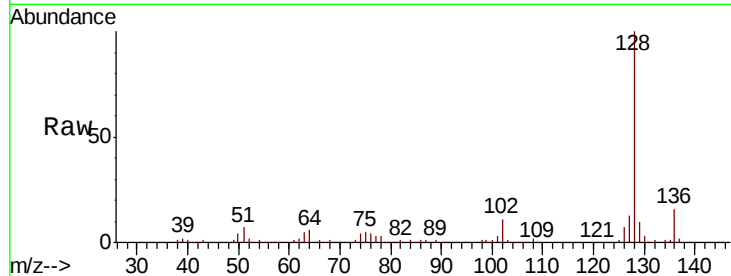
#31
Naphthalene
Concen: 3.843 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Instrument :
BNA_F
ClientSampleId :
Z-2-5

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.1	9.3	13.9
127	12.5	10.9	16.3

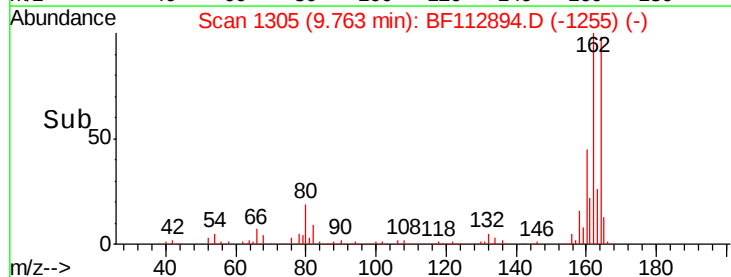
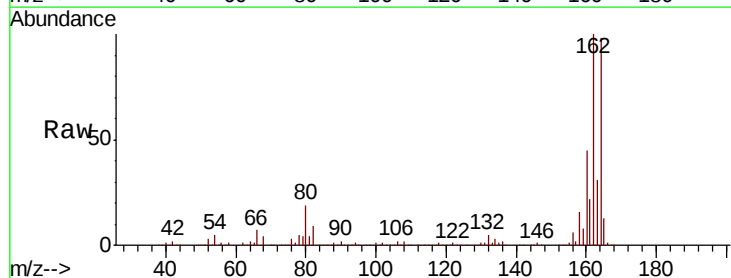
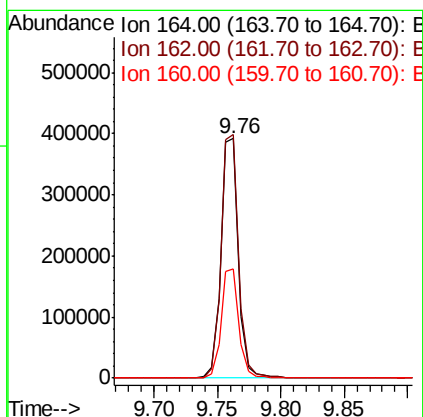
Manual Integrations
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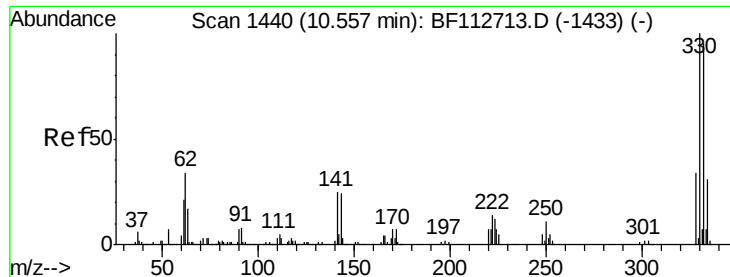
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.6	120.8
160	45.5	36.0	54.0





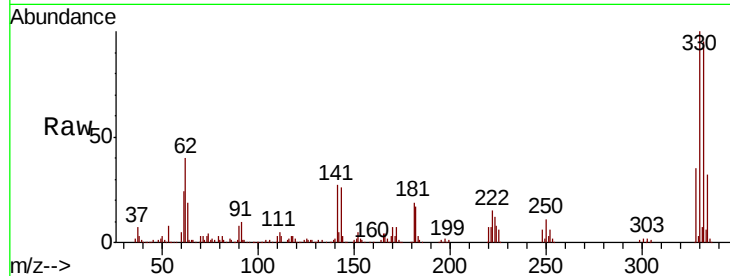
#42
 2,4,6-Tribromophenol
 Concen: 90.709 ng
 RT: 10.54 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Instrument :
 BNA_F
 ClientSampled :
 Z-2-5

Tot Ion	Ratio	Resp	Lower	Upper
330	100	363974		
332	95.5	76.2	114.4	
141	28.5	27.0	40.6	

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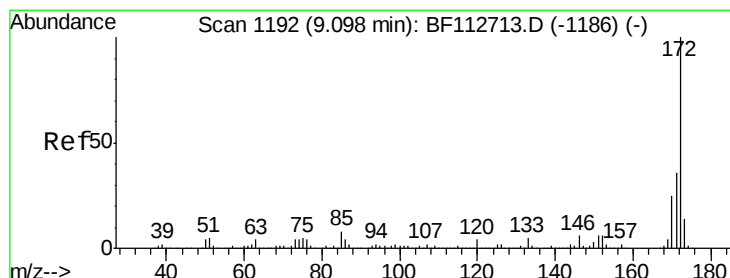
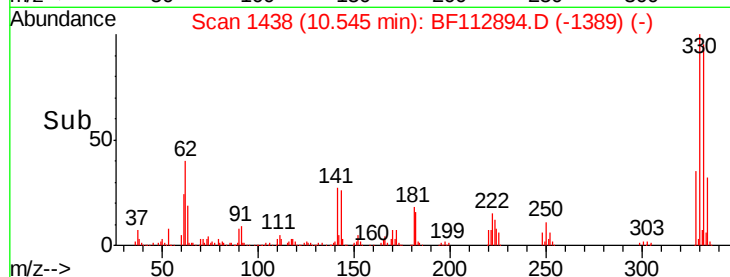
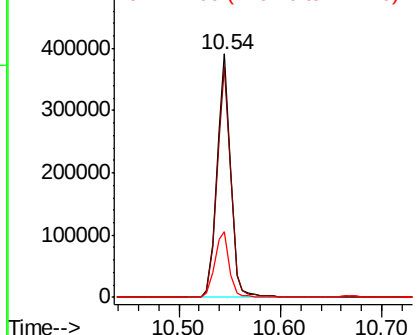


Abundance

Ion 329.80 (329.50 to 330.50): E

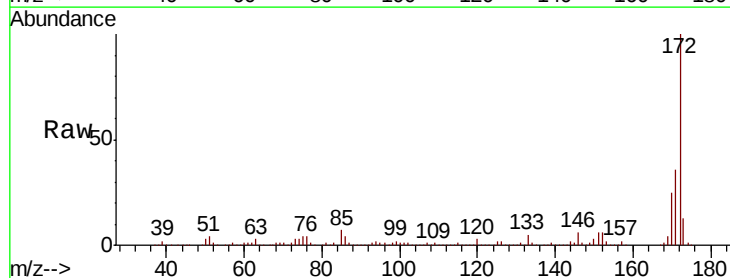
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 61.002 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1499202		
171	36.1	29.0	43.4	
170	24.7	20.0	30.0	

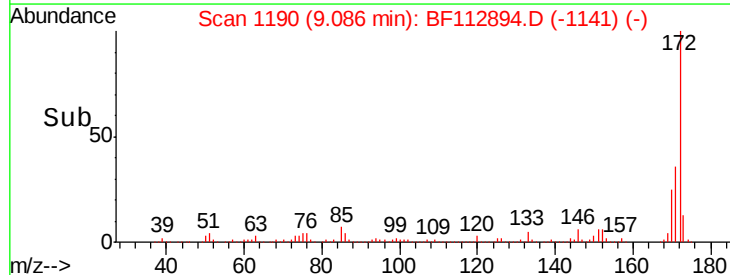
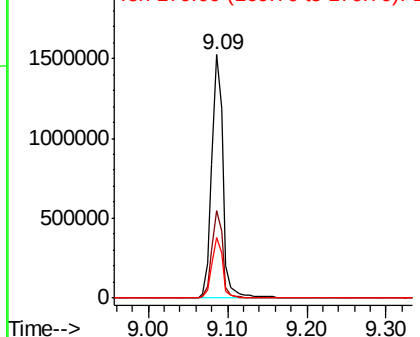


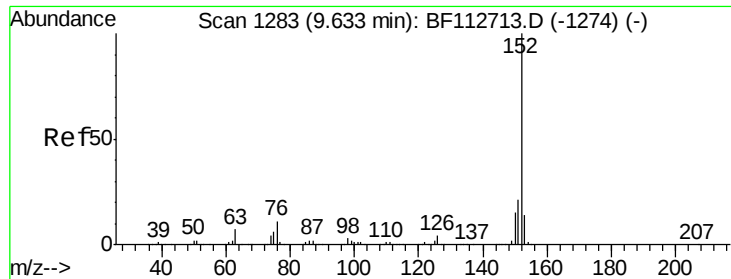
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





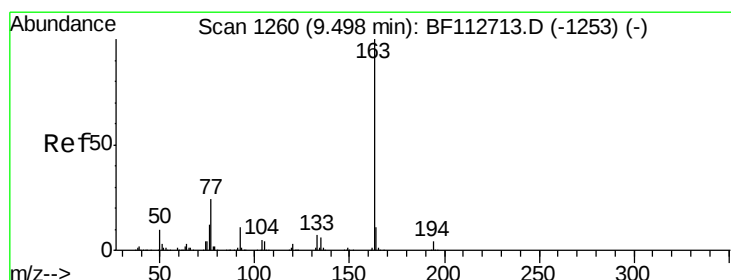
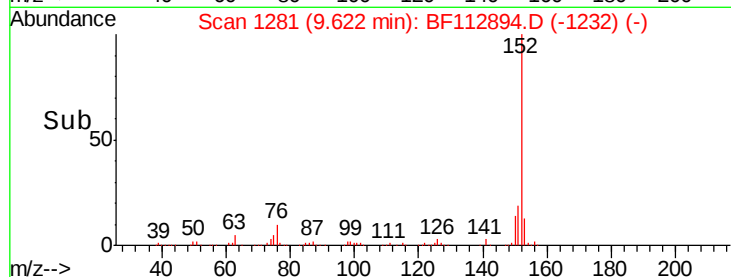
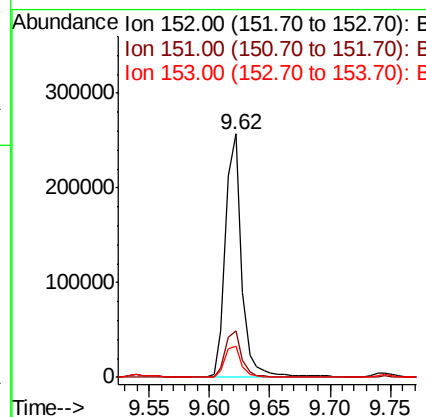
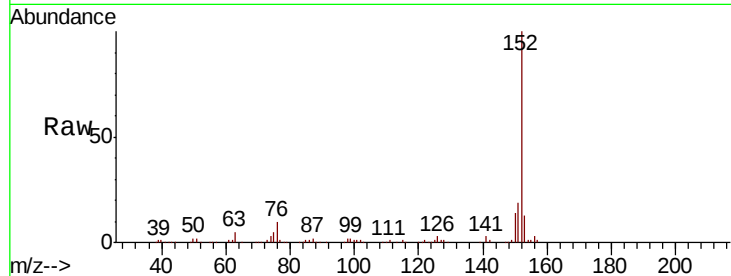
#49
Acenaphthylene
Concen: 5.862 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Instrument :
BNA_F
ClientSampleId :
Z-2-5

Tot Ion	Ratio	Resp	Lower	Upper
152	100	239567		
151	19.2		16.9	25.3
153	13.0		11.0	16.6

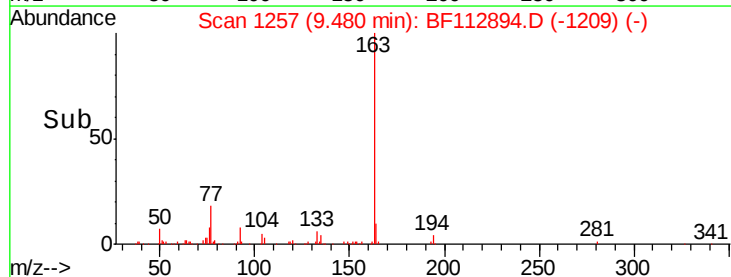
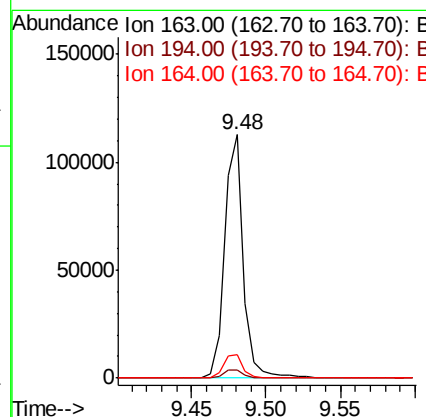
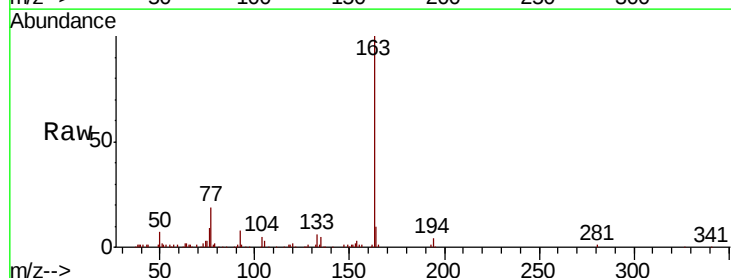
Manual Integrations
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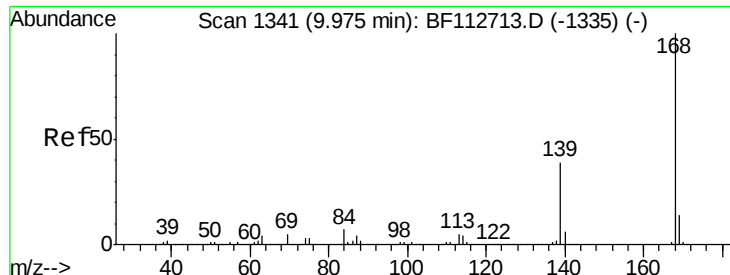
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#50
Dimethylphthalate
Concen: 3.542 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.02 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	98699		
194	3.5		3.0	4.4
164	9.6		8.4	12.6





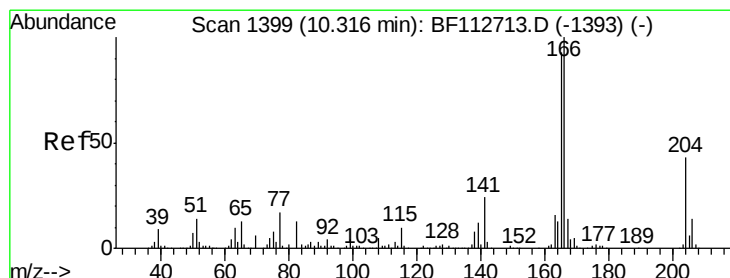
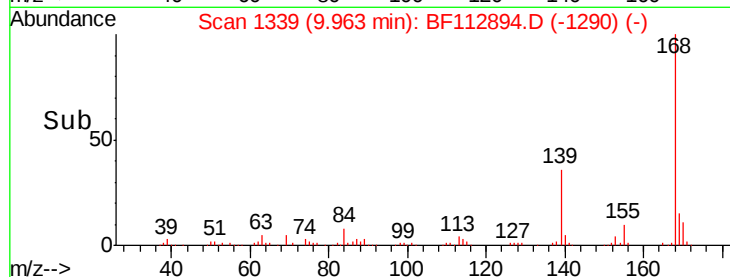
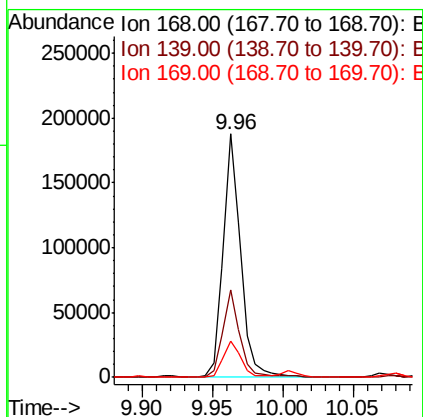
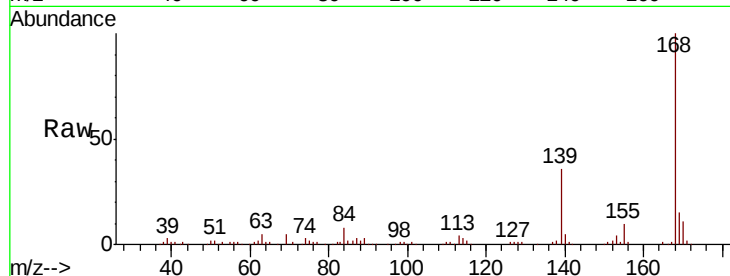
#55
Dibenzenofuran
Concen: 4.706 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Instrument :
BNA_F
ClientSampled :
Z-2-5

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.8	31.3	46.9
169	14.6	11.3	16.9

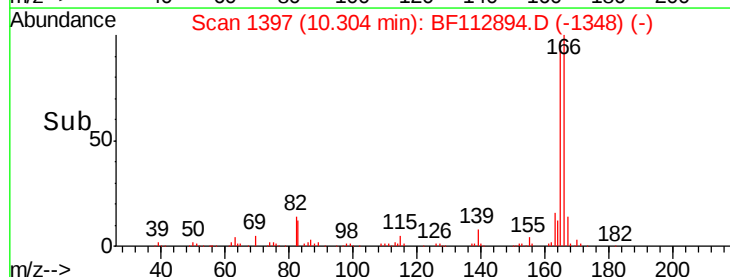
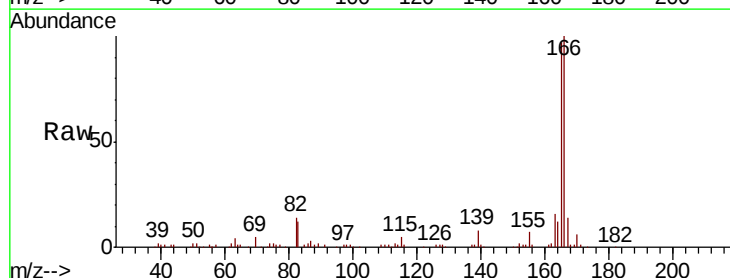
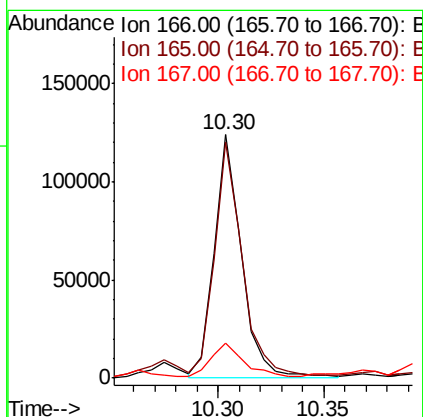
Manual Integrations
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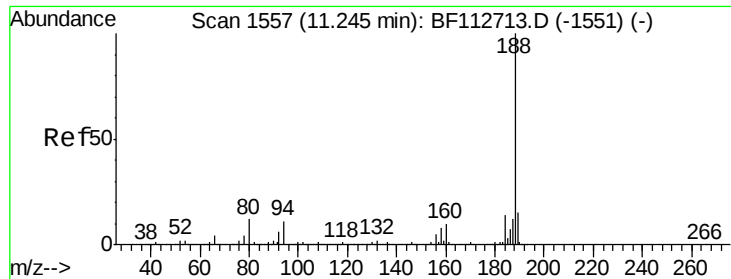
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#58
Fluorene
Concen: 4.554 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.9	74.7	112.1
167	14.2	11.0	16.6





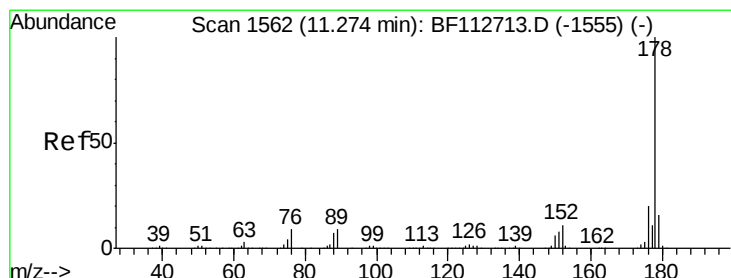
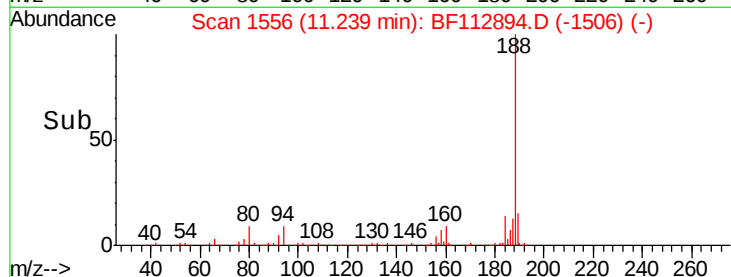
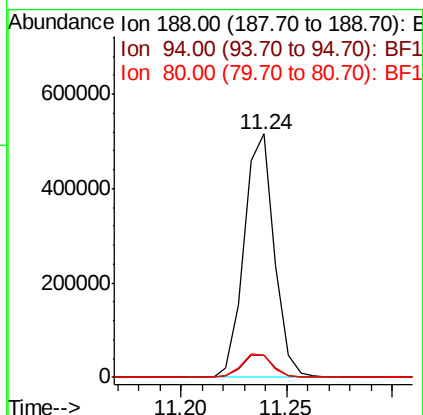
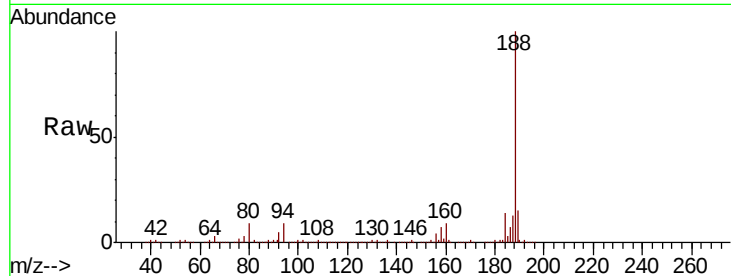
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Instrument :
BNA_F
ClientSampled :
Z-2-5

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.0	9.0	13.4
80	9.0	9.2	13.8#

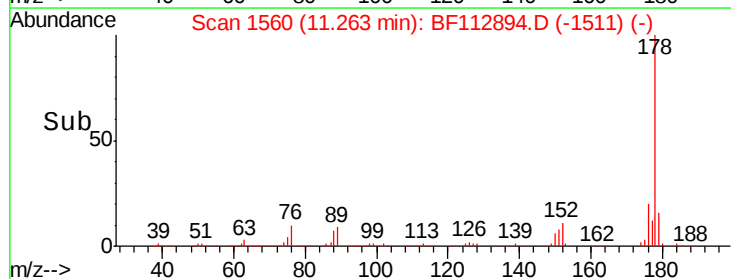
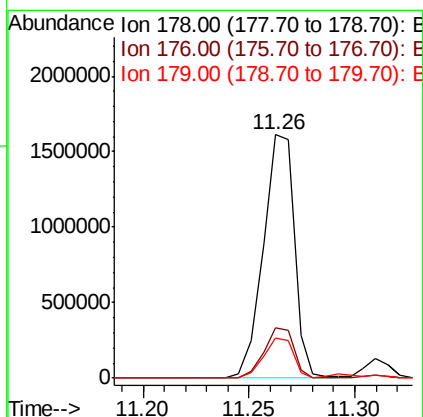
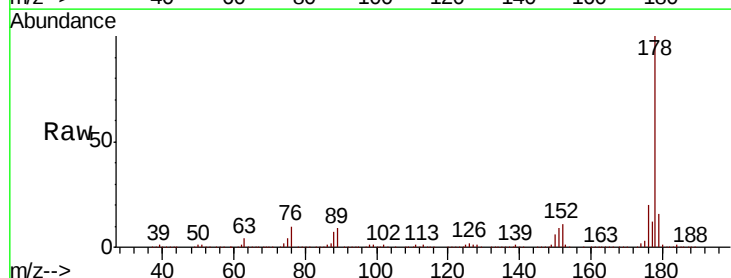
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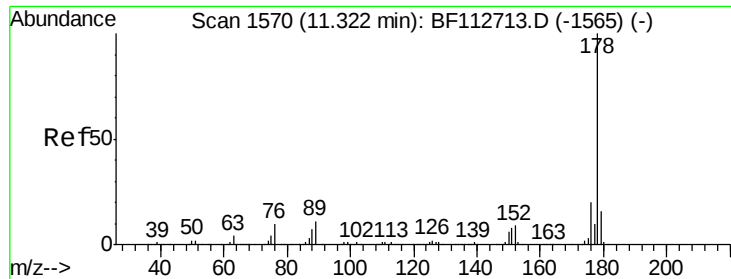
Sohil
3/7/2019 11:02:38 AM



#71
Phenanthrene
Concen: 65.621 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.5	16.3	24.5
179	16.3	12.7	19.1





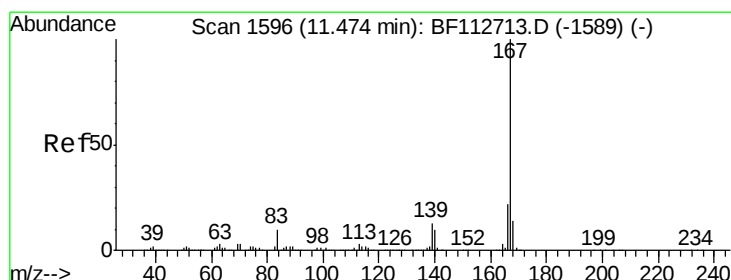
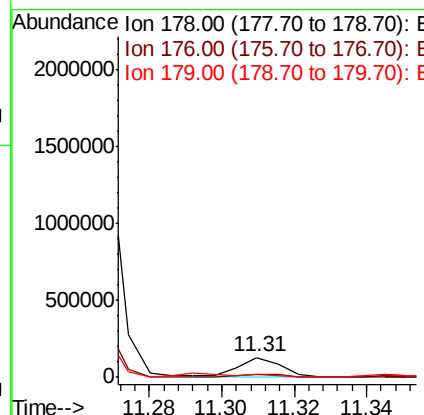
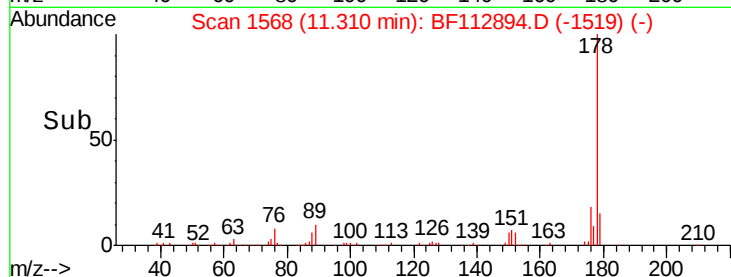
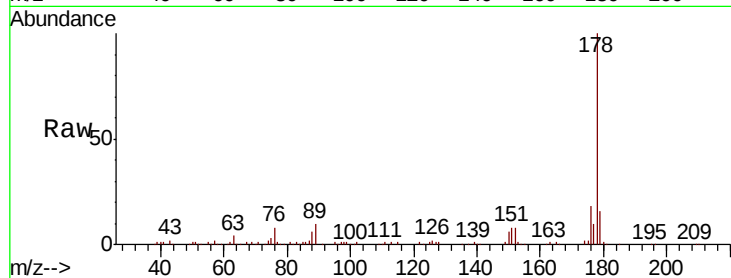
#72
 Anthracene
 Concen: 3.887 ng
 RT: 11.31 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-5

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.8	23.6
179	15.6	13.0	19.6

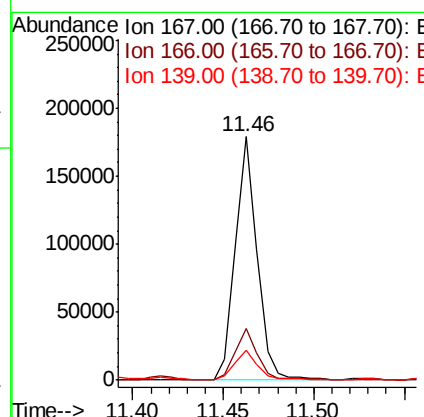
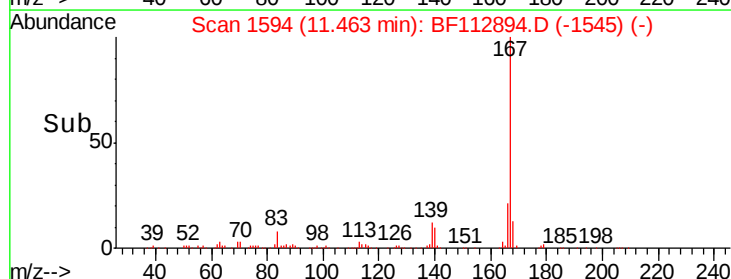
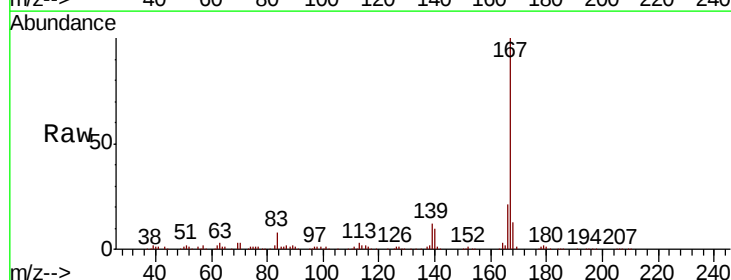
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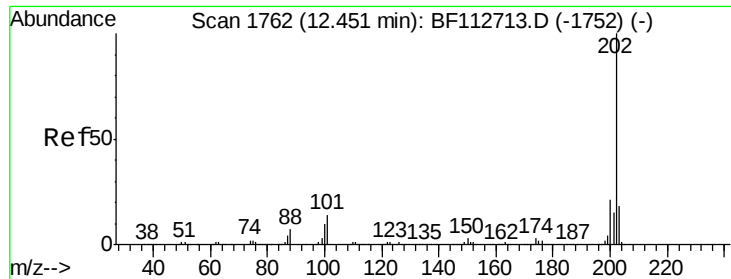
Sohil
 3/7/2019 11:02:38 AM



#73
 Carbazole
 Concen: 5.852 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.5	26.3
139	12.0	10.8	16.2





#75

Fluoranthene

Concen: 82.215 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF112894.D

Acq: 6 Mar 2019 21:01

Instrument :

BNA_F

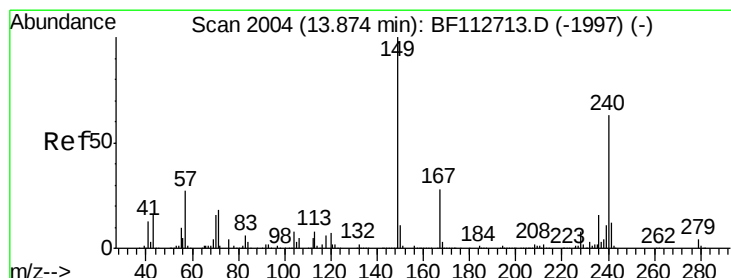
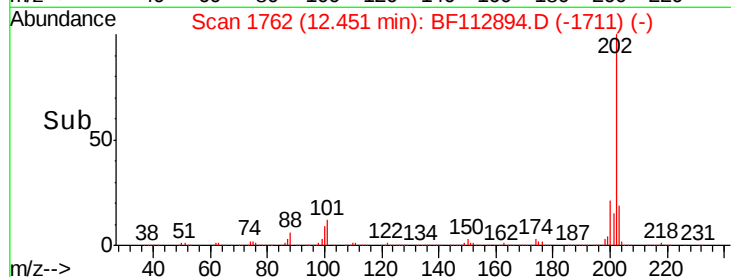
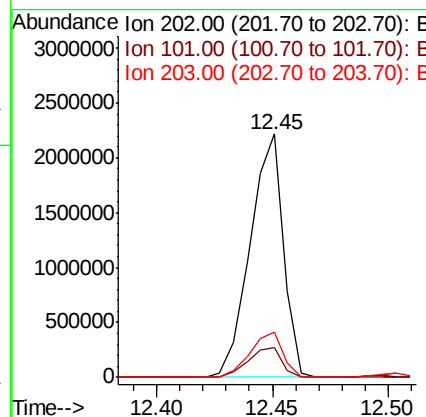
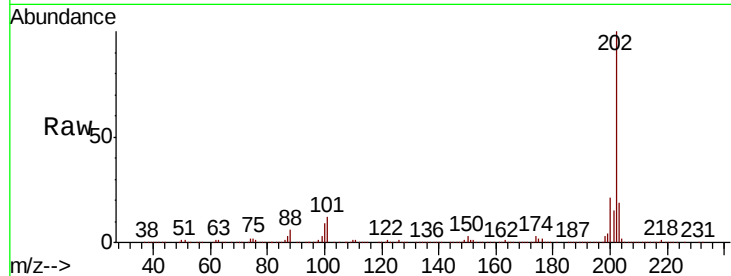
ClientSampled :

Z-2-5

Tot Ion:	202	Resp:	2229055
Ion Ratio	Lower	Upper	
202	100		
101	12.2	0.0	33.8
203	18.8	0.0	38.4

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#76

Chrysene-d12

Concen: 20.000 ng

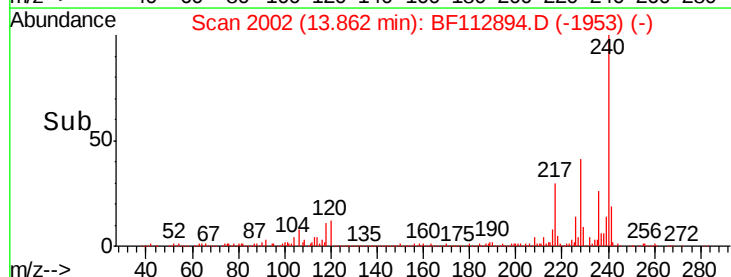
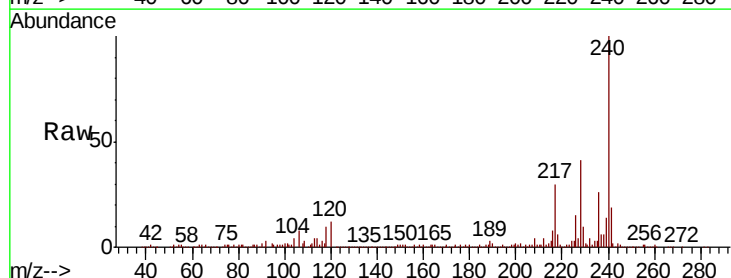
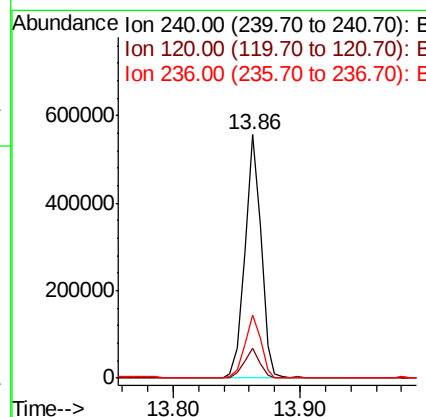
RT: 13.86 min Scan# 2002

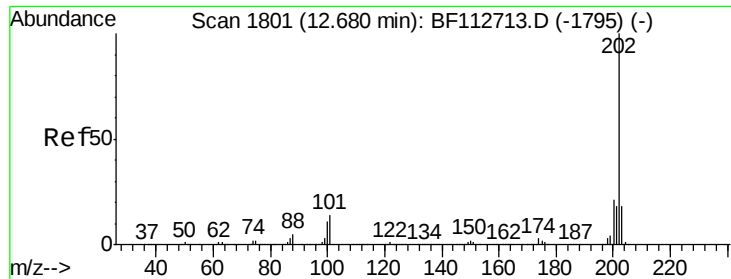
Delta R.T. -0.01 min

Lab File: BF112894.D

Acq: 6 Mar 2019 21:01

Tgt Ion:	240	Resp:	481176
Ion Ratio	Lower	Upper	
240	100		
120	12.2	8.9	13.3
236	25.8	20.7	31.1





#78

Pvrene

Concen: 44.922 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF112894.D

Acq: 6 Mar 2019 21:01

Instrument :

BNA_F

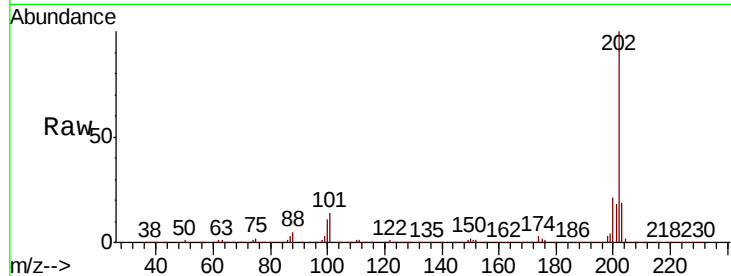
ClientSampled :

Z-2-5

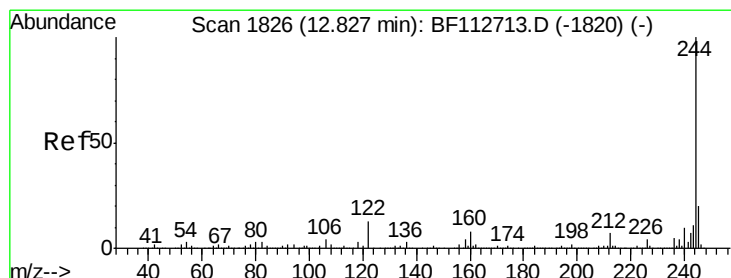
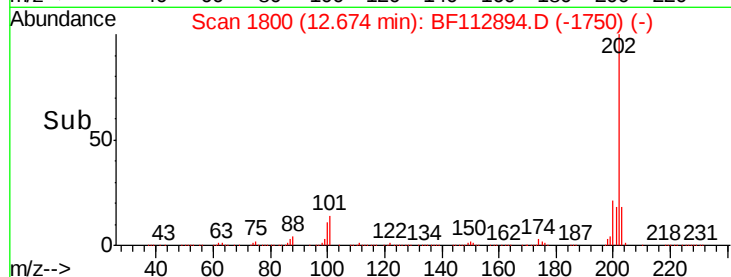
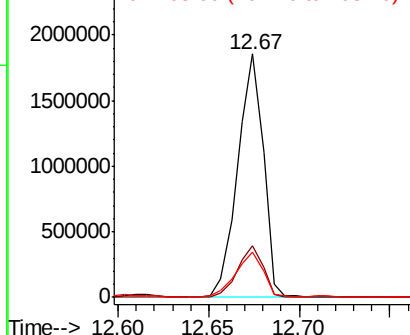
Tot Ion:	202	Resp:	1822227
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.0	25.4
203	18.5	14.4	21.6

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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: 48.020 ng

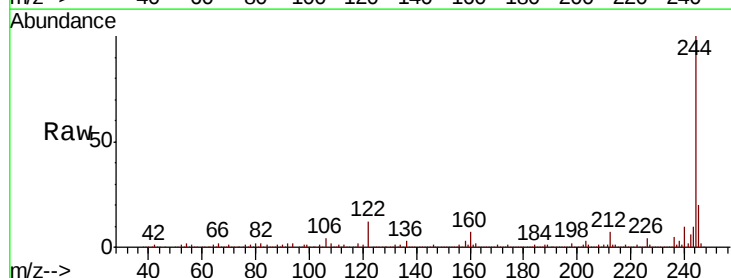
RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

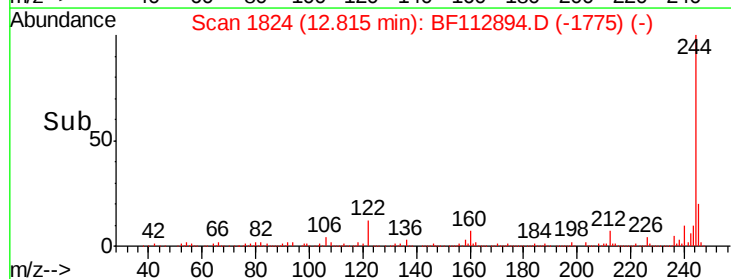
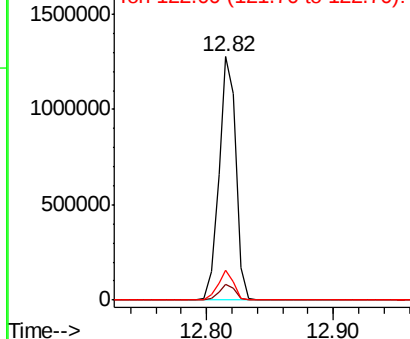
Lab File: BF112894.D

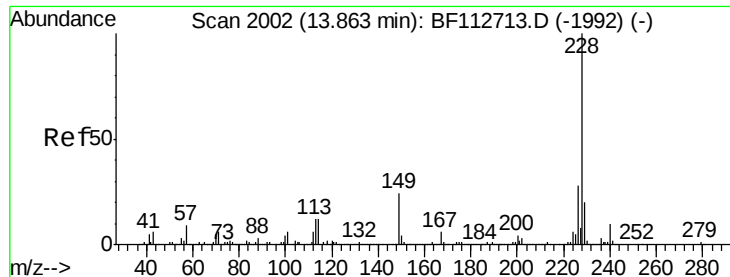
Acq: 6 Mar 2019 21:01

Tgt Ion:	244	Resp:	1191964
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.6	8.4
122	12.2	10.5	15.7



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





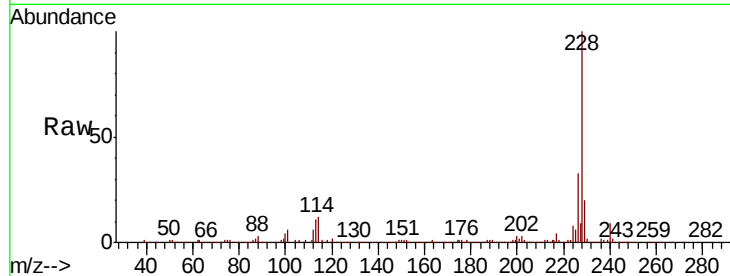
#81
Benzo(a)anthracene
Concen: 25.588 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Instrument :
BNA_F
ClientSampled :
Z-2-5

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.8	22.2	33.4
229	20.5	16.0	24.0

Manual Integrations
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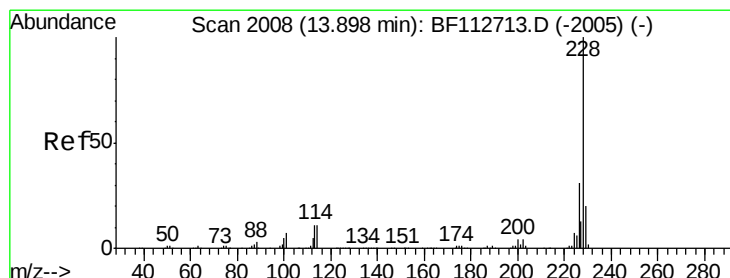
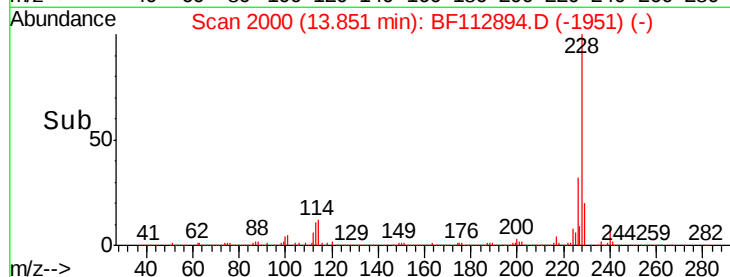
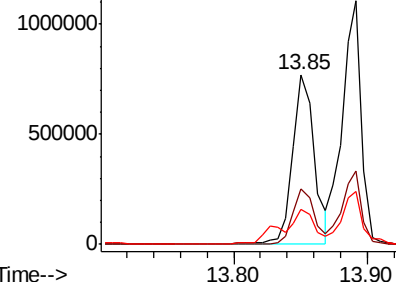


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 33.605 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

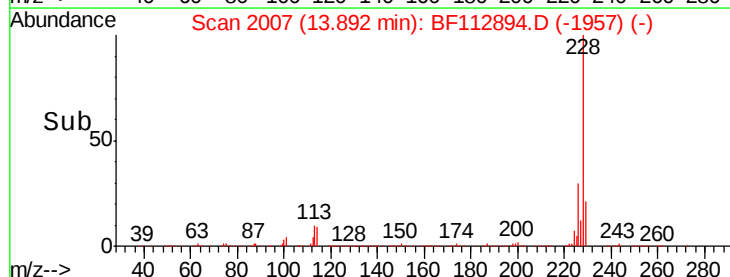
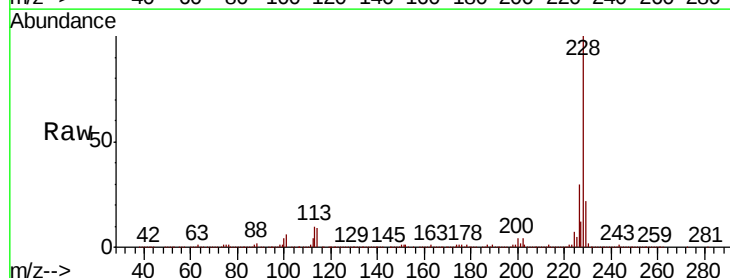
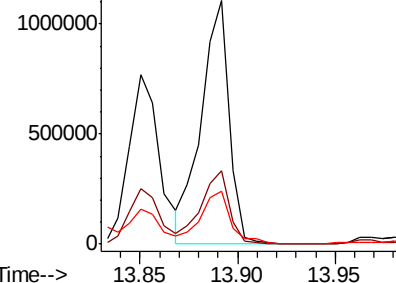
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.9	37.3
229	22.0	16.3	24.5

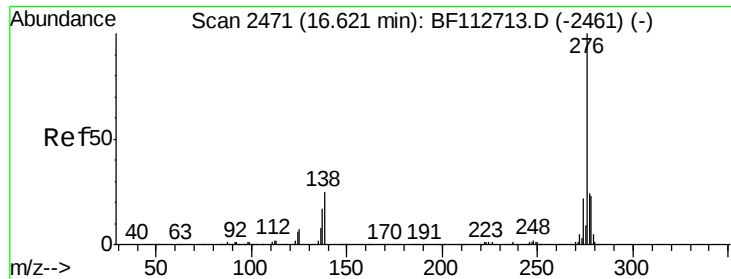
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





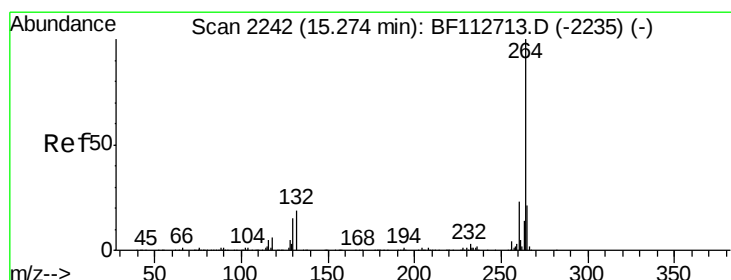
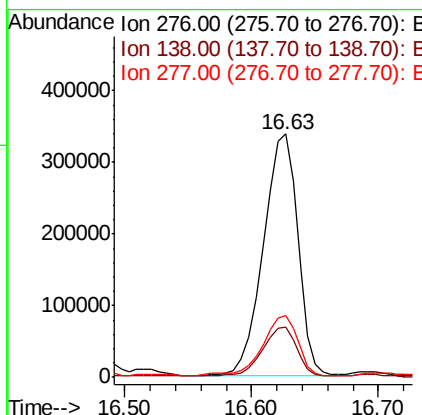
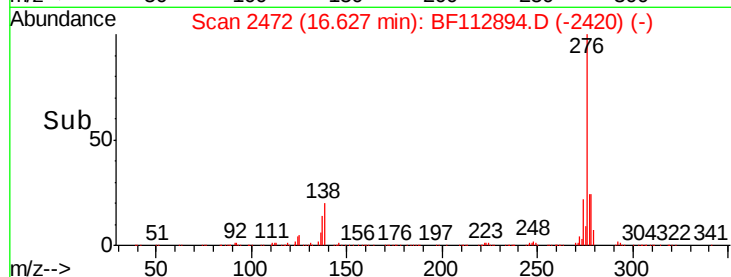
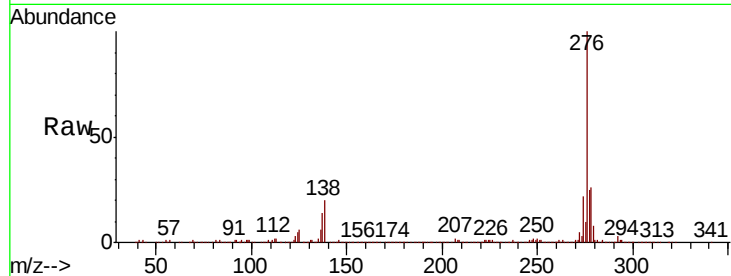
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 23.045 ng
 RT: 16.63 min Scan# 2472
 Delta R.T. 0.01 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Instrument :
 BNA_F
 ClientSampled :
 Z-2-5

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.6	23.2	34.8#
277	25.7	19.9	29.9

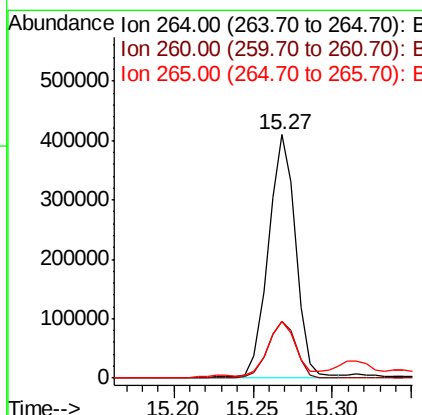
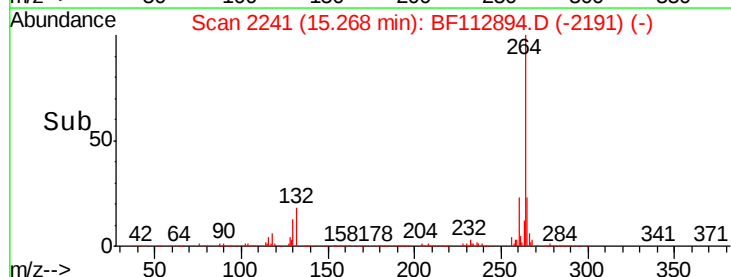
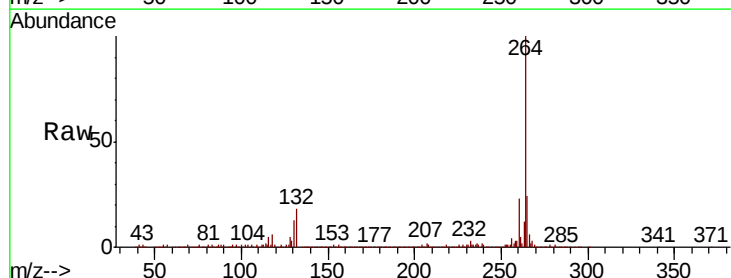
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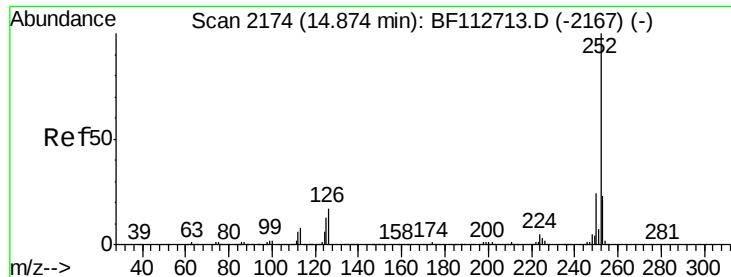
Sohil
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.27 min Scan# 2241
 Delta R.T. -0.01 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	23.5	17.2	25.8





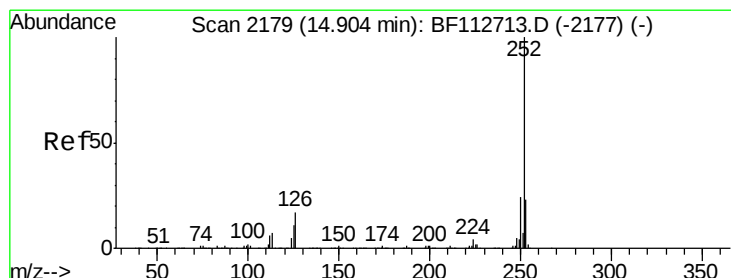
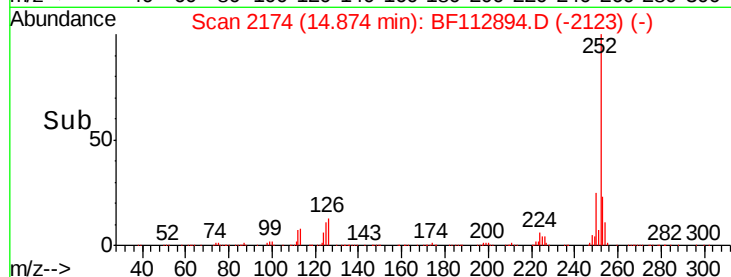
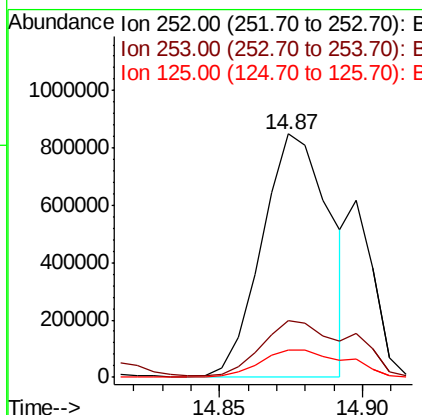
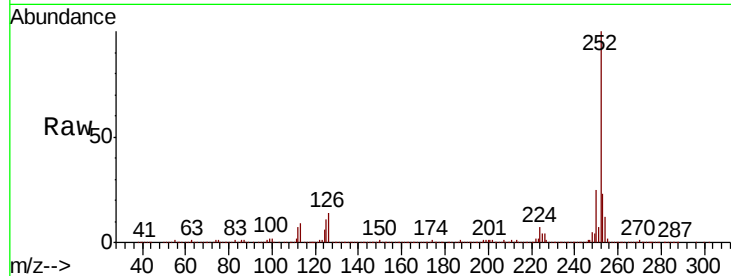
#88
Benzo(b)fluoranthene
Concen: 44.024 ng m
RT: 14.87 min Scan# 2174
Delta R.T. -0.00 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Instrument :
BNA_F
ClientSampleId :
Z-2-5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.0	27.0
125	11.5	10.2	15.2

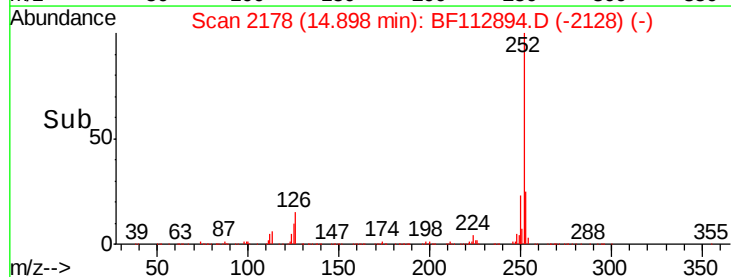
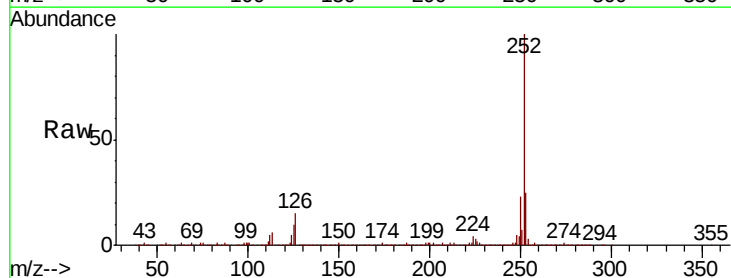
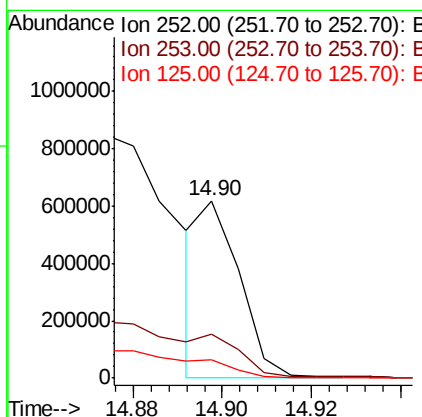
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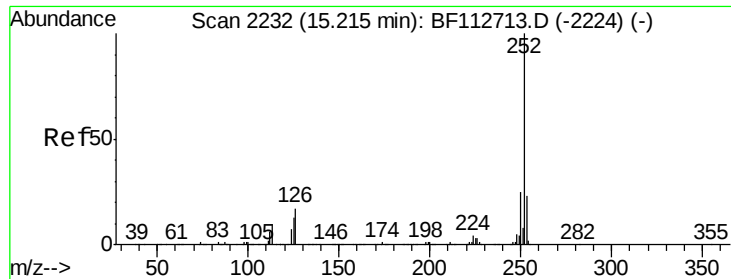
Sohil
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#89
Benzo(k)fluoranthene
Concen: 13.359 ng m
RT: 14.90 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.2	27.2
125	10.3	9.8	14.6





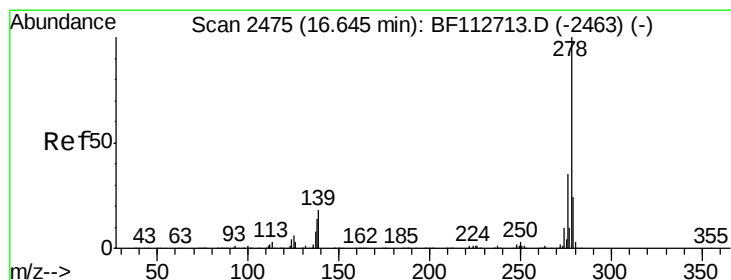
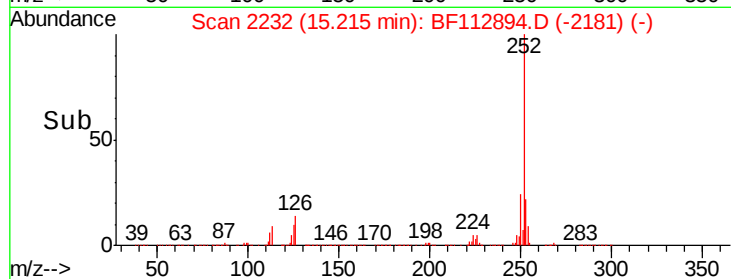
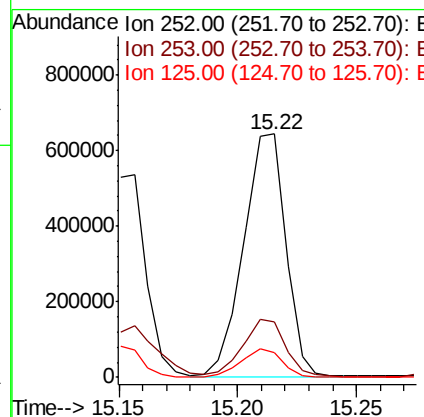
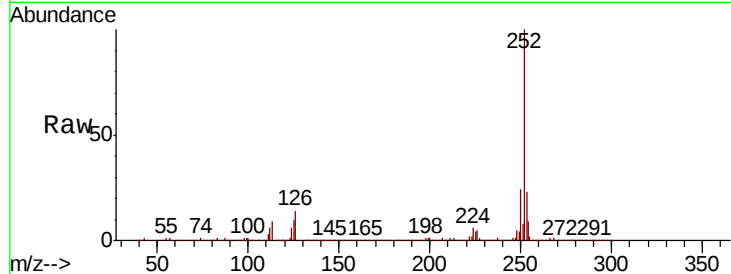
#90
Benzo(a)pyrene
Concen: 28.483 ng/mL
RT: 15.22 min Scan# 2232
Delta R.T. -0.00 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Instrument :
BNA_F
ClientSampleId :
Z-2-5

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.0	27.0
125	10.3	10.7	16.1

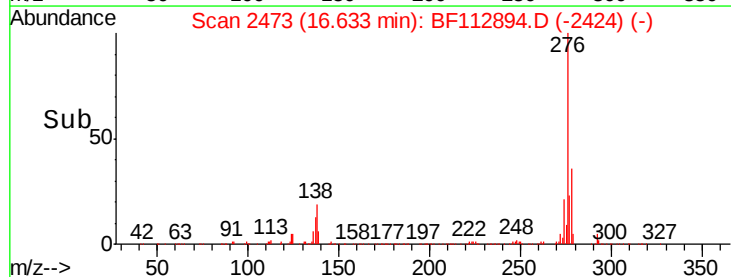
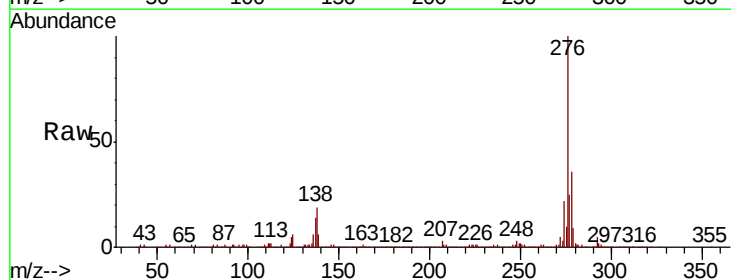
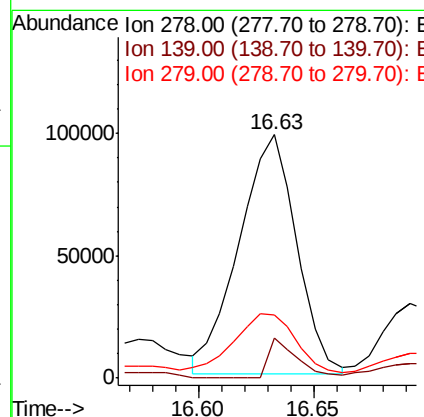
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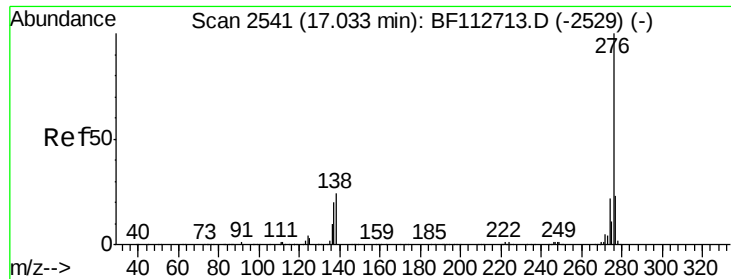
Sohil
3/7/2019 11:02:38 AM



#91
Dibenzo(a,h)anthracene
Concen: 7.096 ng/mL
RT: 16.63 min Scan# 2473
Delta R.T. -0.01 min
Lab File: BF112894.D
Acq: 6 Mar 2019 21:01

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.3	21.5
279	26.1	19.4	29.0





#92
 Benzo(a,h,i)perylene
 Concen: 23.256 ng
 RT: 17.03 min Scan# 2541
 Delta R.T. -0.00 min
 Lab File: BF112894.D
 Acq: 6 Mar 2019 21:01

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-5

Tot Ion:	276	Resp:	560838
Ion Ratio	Lower	Upper	
276	100		
277	23.8	18.6	27.8
138	19.5	19.4	29.0

Manual Integrations
 APPROVED

Sohil
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