

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051519\  
 Data File : BF114301.D  
 Acq On : 15 May 2019 22:45  
 Operator : JU/SJ  
 Sample : K2766-05DL 4X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

**Instrument :**  
 BNA\_F  
**ClientSampleId :**  
 P026-SS007-0002-01DL

**Manual Integrations**  
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 mohammad  
 5/16/2019 9:51:22 AM

Quant Time: May 16 02:04:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 10 15:56:46 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	243127	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	957624	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	454585	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	846359	20.00	ng	0.00
76) Chrysene-d12	14.02	240	508304	20.00	ng	0.00
87) Perylene-d12	15.50	264	578724	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.48	112	571604	37.83	ng	0.00
7) Phenol-d6	6.49	99	786990	44.04	ng	0.00
23) Nitrobenzene-d5	7.41	82	462803	27.12	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	164866	35.08	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	744894	24.79	ng	0.00
79) Terphenyl-d14	12.95	244	557996	22.63	ng	0.00

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.15	128	324335	7.251	ng	96
37) 2-Methylnaphthalene	8.85	142	137967	4.780	ng	97
38) 1-Methylnaphthalene	8.95	142	87967	3.237	ng	100
49) Acenaphthylene	9.75	152	493337	10.975	ng	97
50) Dimethylphthalate	9.60	163	123581	3.703	ng	98
58) Fluorene	10.43	166	74512	2.385	ng	99
71) Phenanthrene	11.40	178	1885729	45.796	ng	98
72) Anthracene	11.45	178	319198	7.718	ng	98
75) Fluoranthene	12.60	202	2144654	48.366	ng	100
78) Pyrene	12.83	202	3503368	85.677	ng	99
81) Benzo(a)anthracene	14.01	228	1339603m	40.746	ng	
83) Chrysene	14.05	228	1452476	45.068	ng	98
86) Indeno(1,2,3-cd)pyrene	16.98	276	581738	20.424	ng	97
88) Benzo(b)fluoranthene	15.07	252	1522569m	41.066	ng	
89) Benzo(k)fluoranthene	15.09	252	472615m	13.877	ng	
90) Benzo(a)pyrene	15.44	252	1043280	31.973	ng	100
91) Dibenzo(a,h)anthracene	16.98	278	162153m	5.980	ng	
92) Benzo(g,h,i)perylene	17.43	276	638275	23.490	ng	99

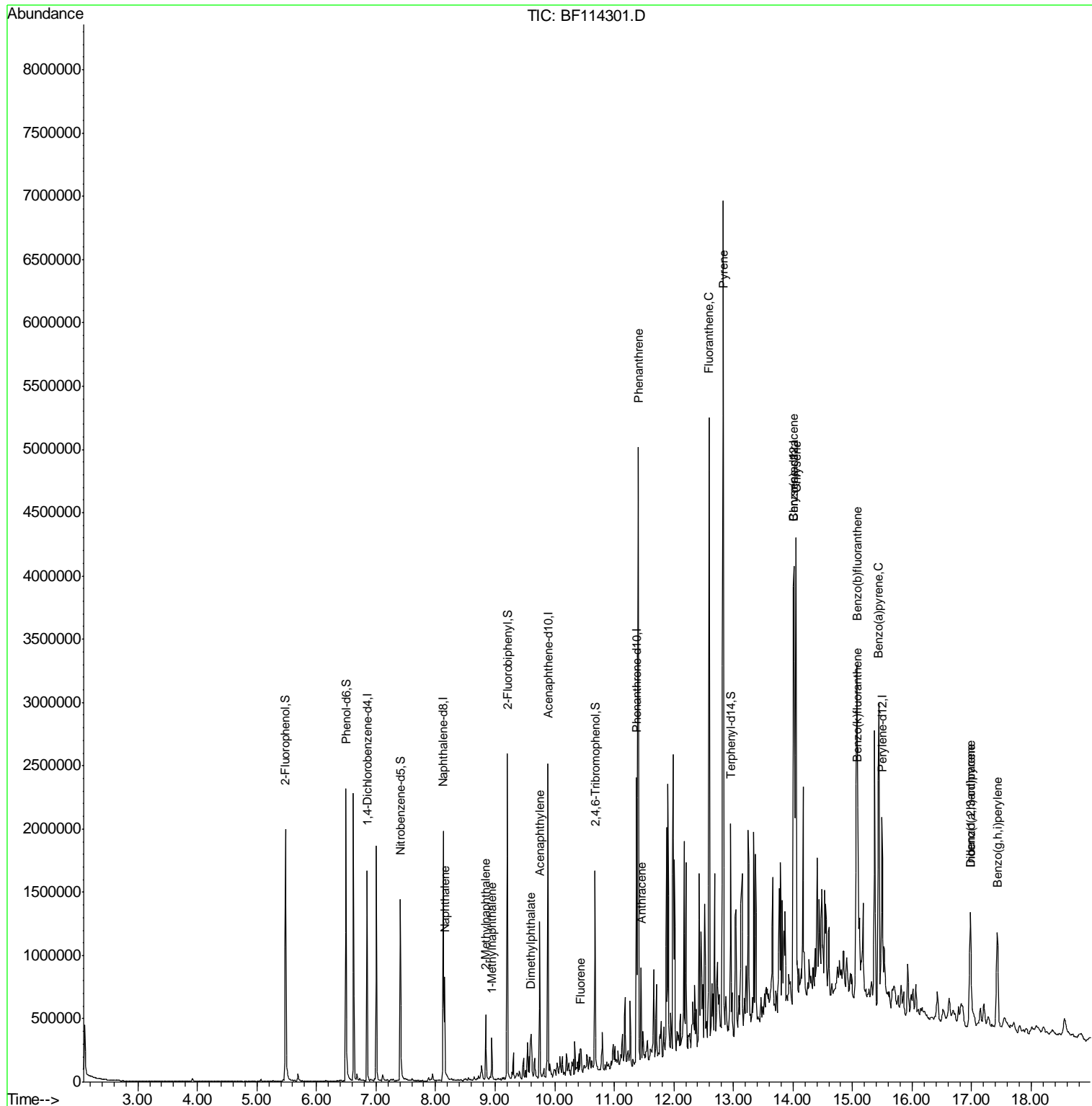
(#) = qualifier out of range (m) = manual integration (+) = signals summed

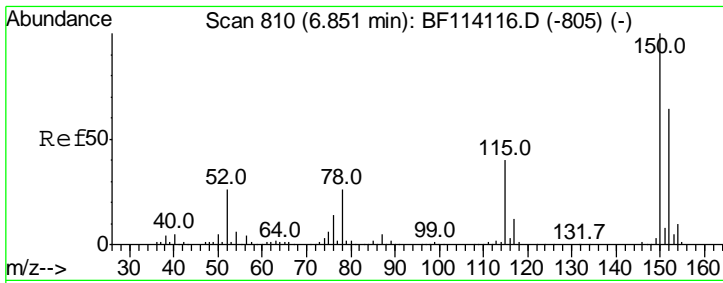
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051519\  
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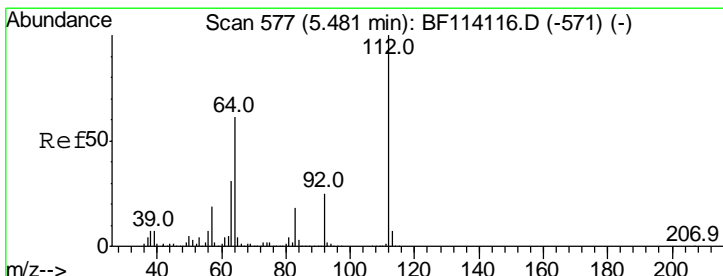
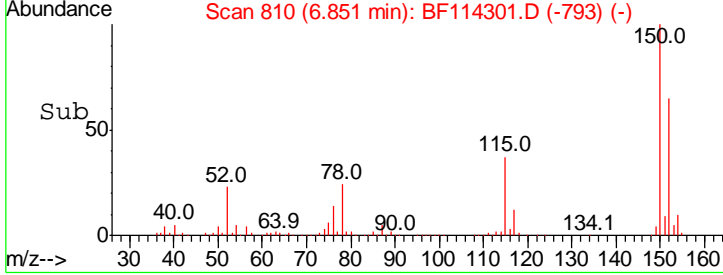
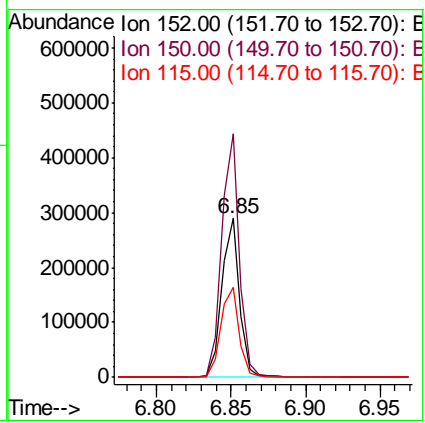
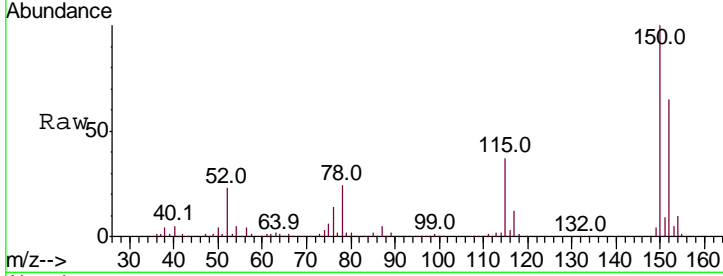
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.85 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampleId :**  
 P026-SS007-0002-01DL

Tgt Ion:152 Resp: 243127

Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.3	186.5
115	56.9	49.1	73.7

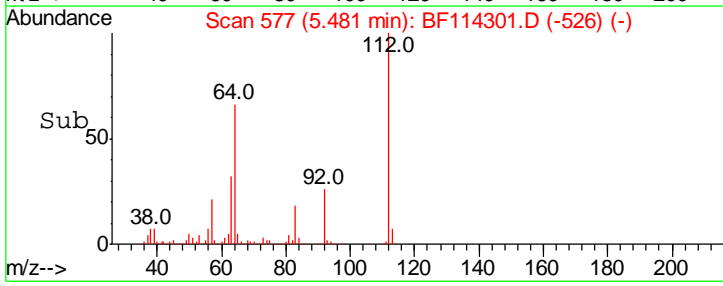
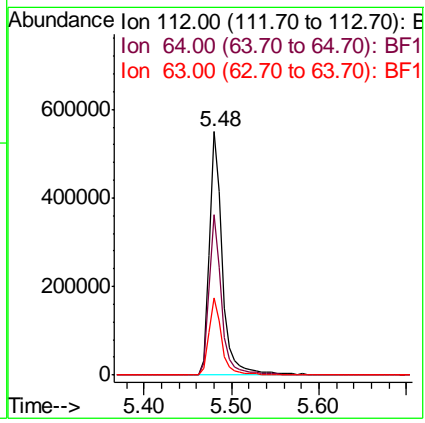
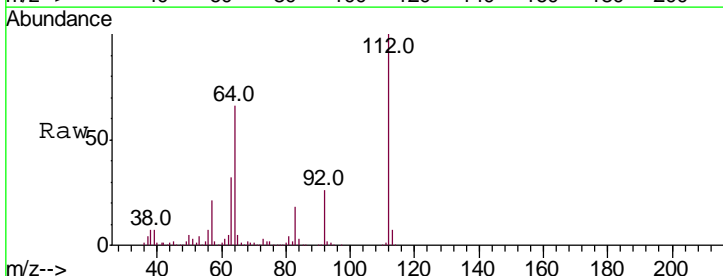
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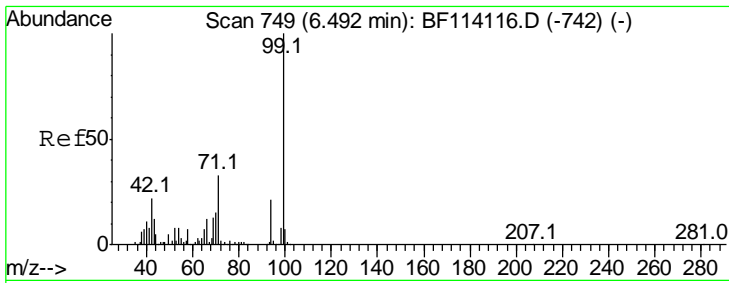


#5  
 2-Fluorophenol  
 Concen: 37.835 ng  
 RT: 5.48 min Scan# 577  
 Delta R.T. 0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion:112 Resp: 571604

Ion	Ratio	Lower	Upper
112	100		
64	66.0	49.0	73.6
63	31.8	24.6	37.0





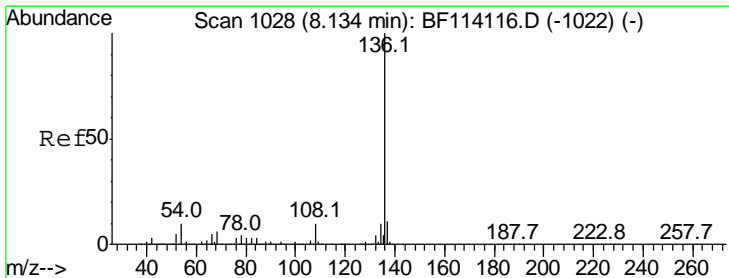
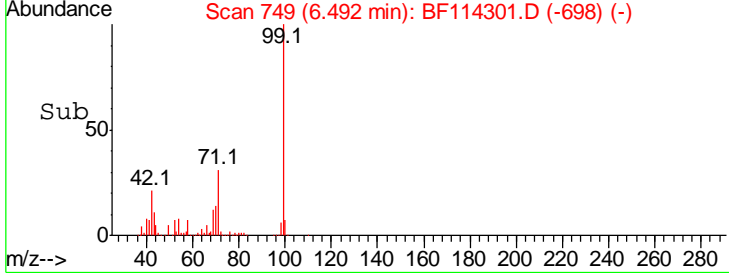
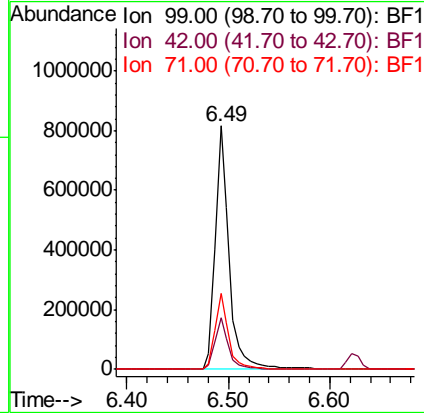
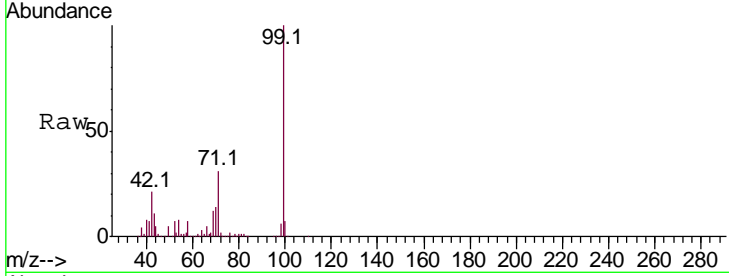
#7  
 Phenol-d6  
 Concen: 44.043 ng  
 RT: 6.49 min Scan# 749  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampled :**  
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Tgt Ion	Resp	Lower	Upper
99	100		
42	21.0	17.9	26.9
71	31.0	26.2	39.2

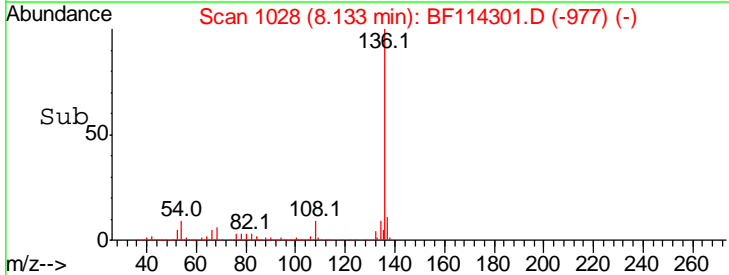
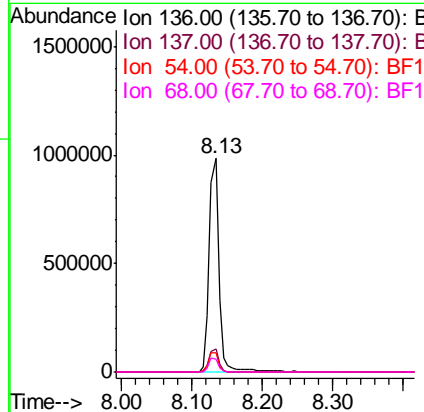
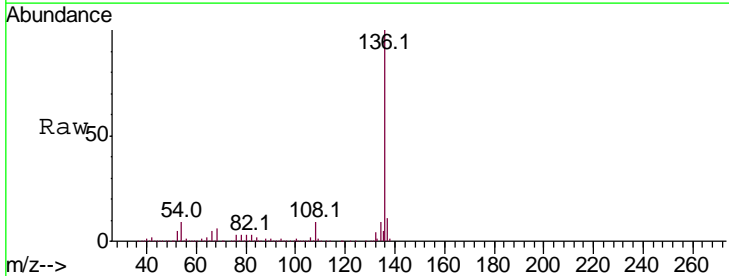
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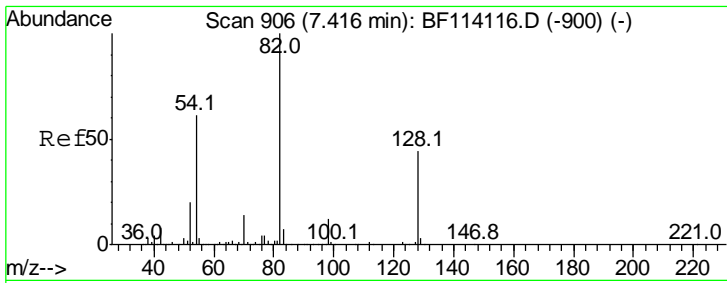
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#21  
 Naphthalene-d8  
 Concen: 20.000 ng  
 RT: 8.13 min Scan# 1028  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	8.8	7.8	11.8
68	6.0	5.1	7.7





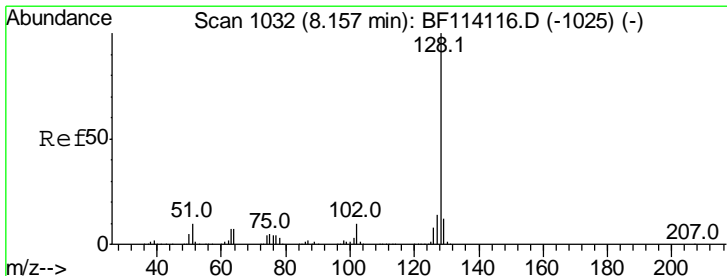
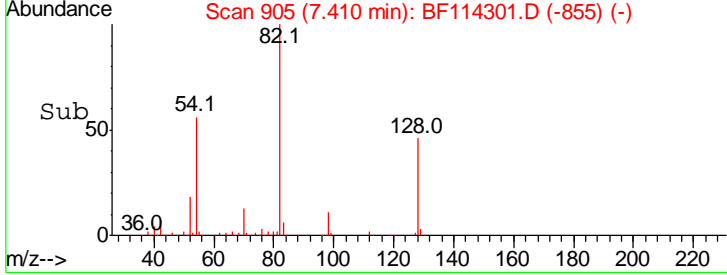
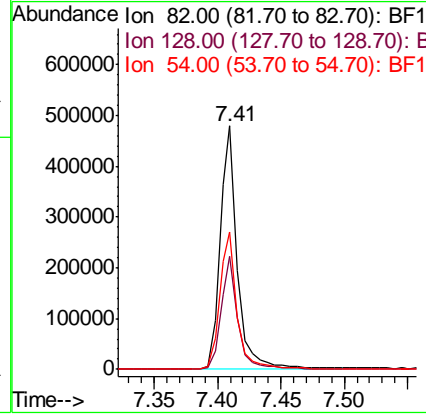
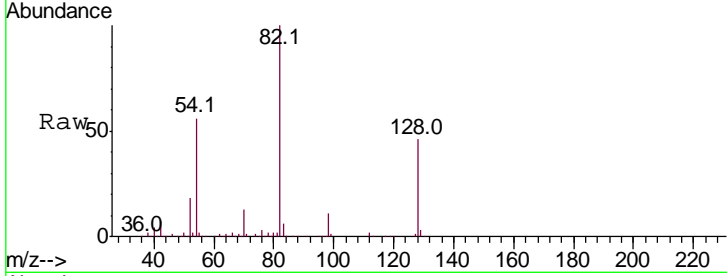
#23  
 Nitrobenzene-d5  
 Concen: 27.122 ng  
 RT: 7.41 min Scan# 905  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
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Tgt Ion	Resp	Lower	Upper
82	100		
128	46.2	35.5	53.3
54	56.3	48.5	72.7

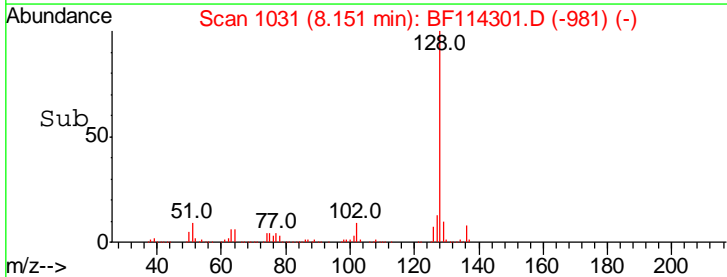
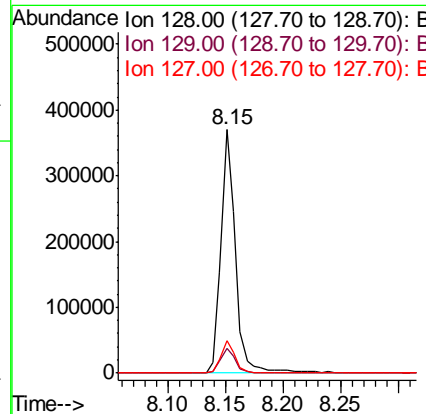
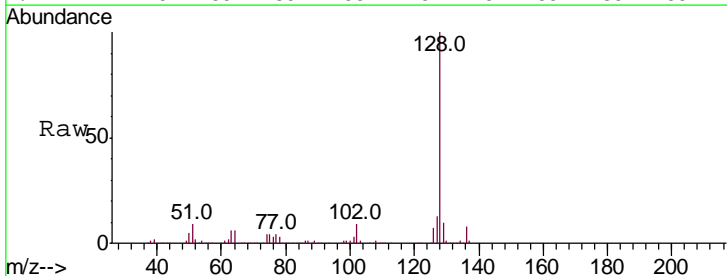
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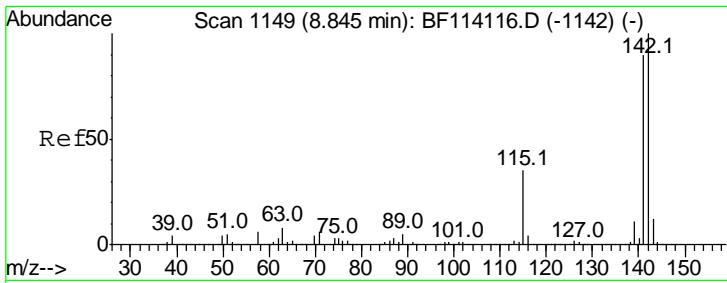
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#31  
 Naphthalene  
 Concen: 7.251 ng  
 RT: 8.15 min Scan# 1031  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

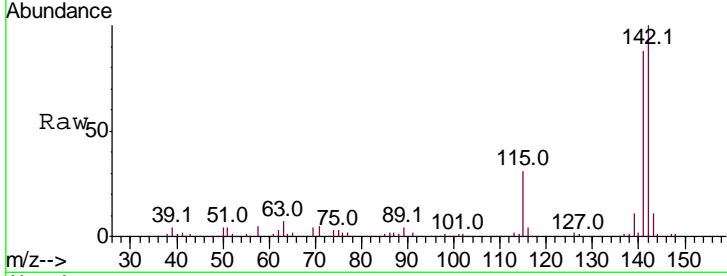
Tgt Ion	Resp	Lower	Upper
128	100		
129	10.1	9.6	14.4
127	13.1	11.3	16.9





#37  
 2-Methylnaphthalene  
 Concen: 4.780 ng  
 RT: 8.85 min Scan# 1149  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

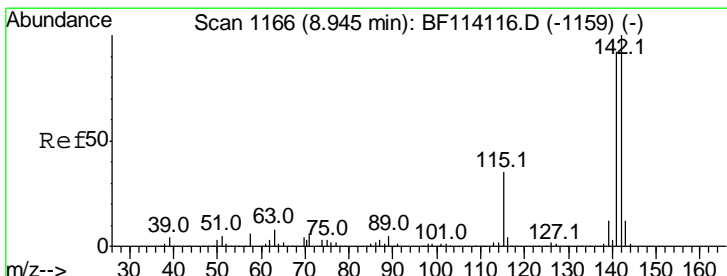
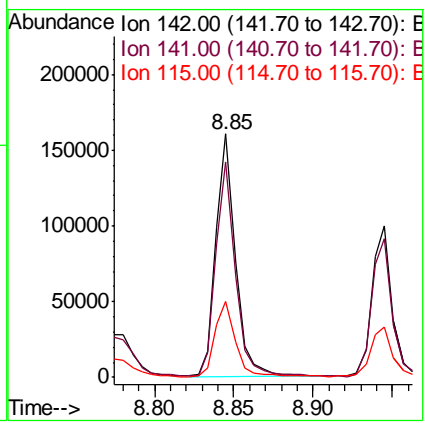
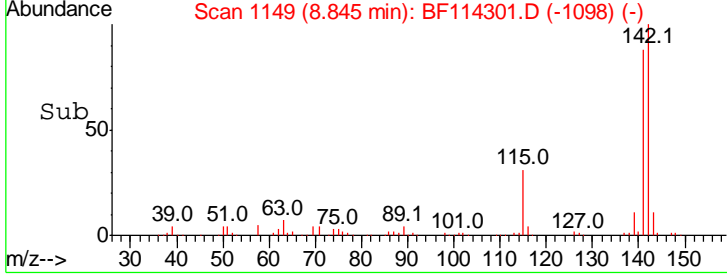
**Instrument :**  
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 P026-SS007-0002-01DL



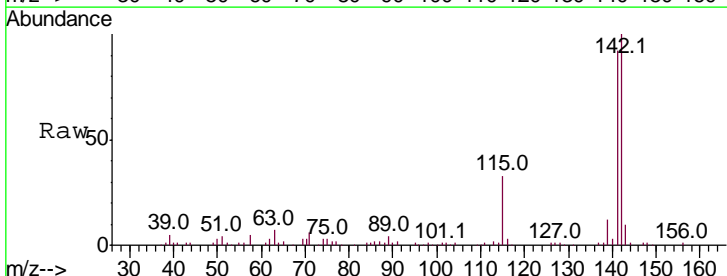
Tgt Ion:142 Resp: 137967

Ion	Ratio	Lower	Upper
142	100		
141	88.3	72.1	108.1
115	31.4	28.0	42.0

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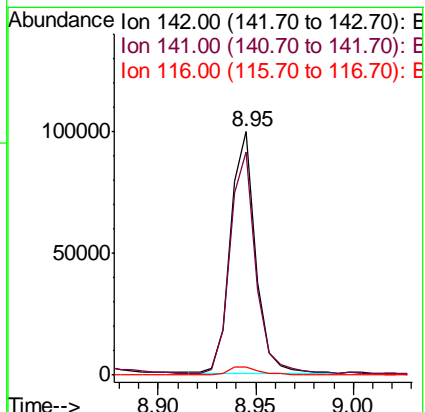
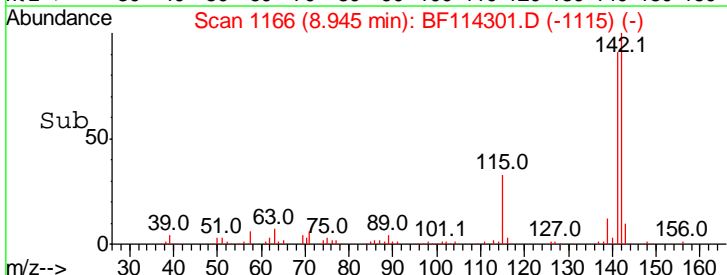


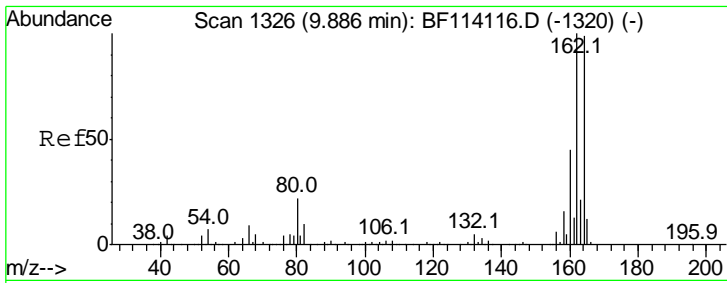
#38  
 1-Methylnaphthalene  
 Concen: 3.237 ng  
 RT: 8.95 min Scan# 1166  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45



Tgt Ion:142 Resp: 87967

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.0
116	3.3	3.1	4.7





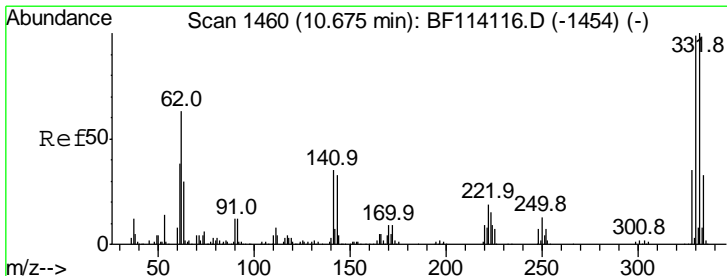
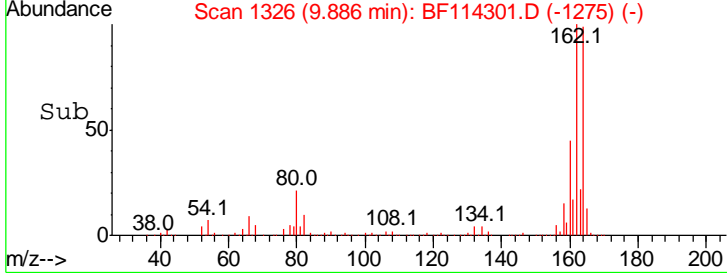
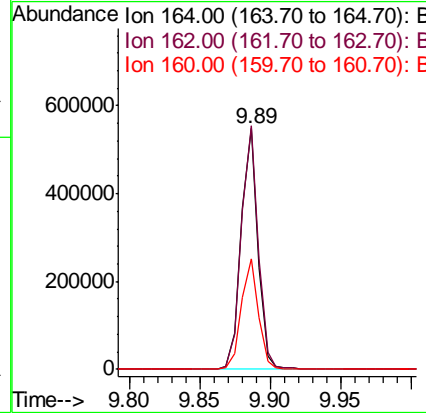
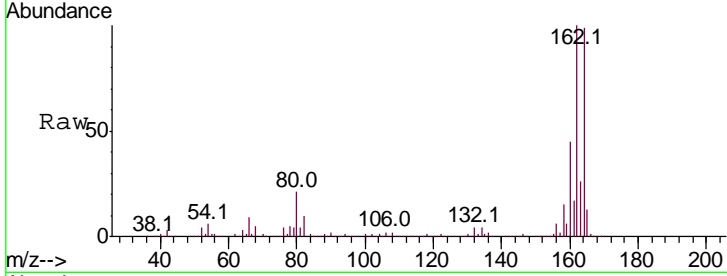
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.89 min Scan# 1326  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
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 P026-SS007-0002-01DL

Tgt Ion	Resp	Lower	Upper
164	100		
162	101.2	80.6	120.8
160	45.9	36.5	54.7

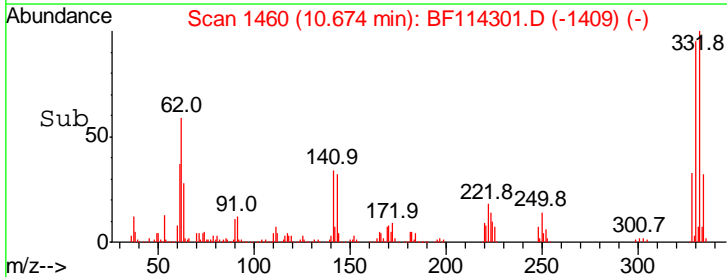
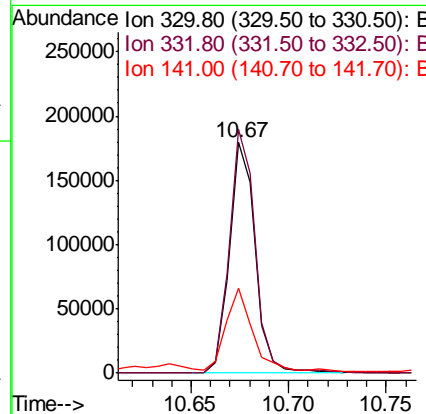
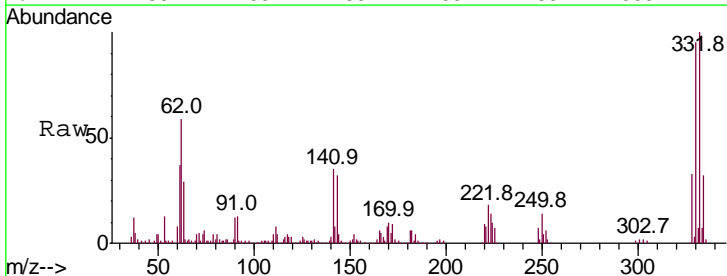
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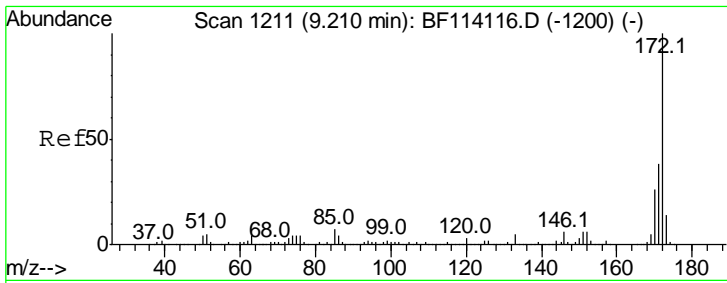
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#42  
 2,4,6-Tribromophenol  
 Concen: 35.081 ng  
 RT: 10.67 min Scan# 1460  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
330	100		
332	106.2	81.4	122.2
141	38.3	26.6	40.0





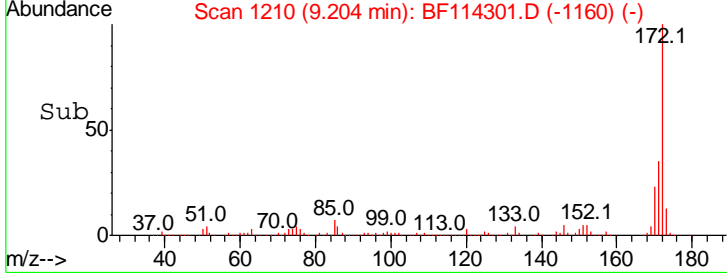
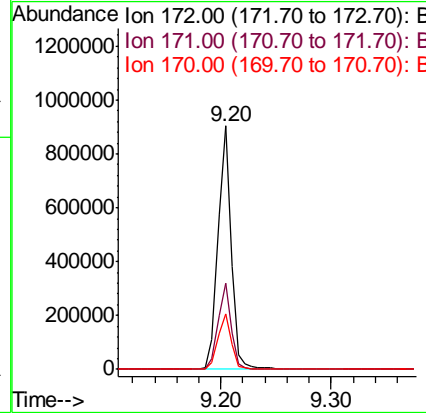
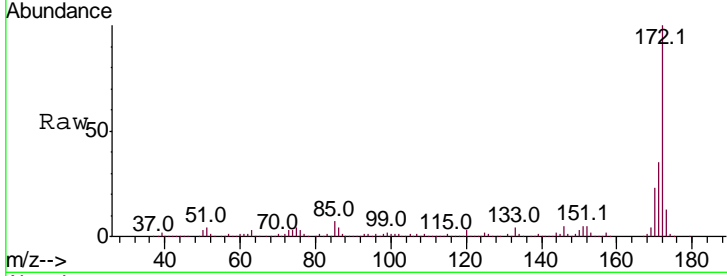
#45  
 2-Fluorobiphenyl  
 Concen: 24.787 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
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**ClientSampleID :**  
 P026-SS007-0002-01DL

Tgt Ion	Resp	Lower	Upper
172	100		
171	35.3	30.7	46.1
170	23.0	20.5	30.7

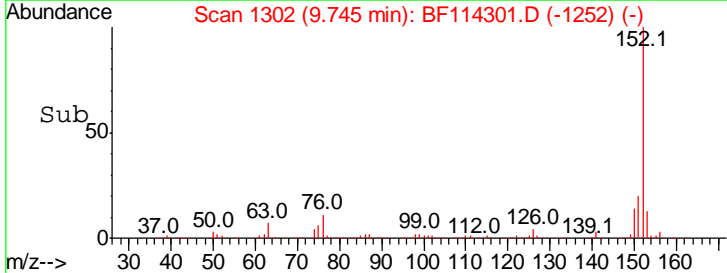
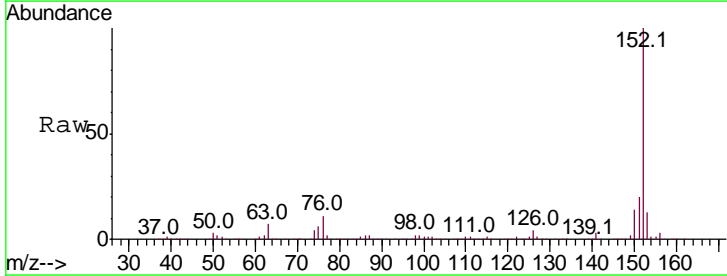
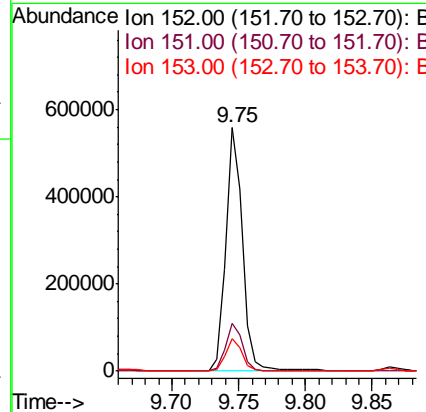
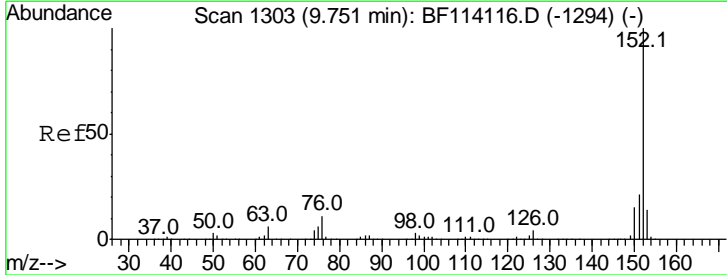
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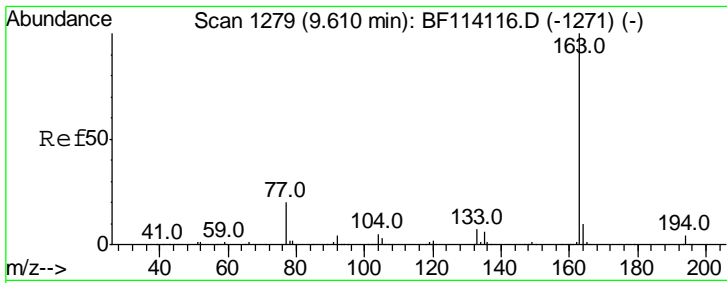


#49  
 Acenaphthylene  
 Concen: 10.975 ng  
 RT: 9.75 min Scan# 1302  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
152	100		
151	19.6	16.8	25.2
153	13.4	11.4	17.2







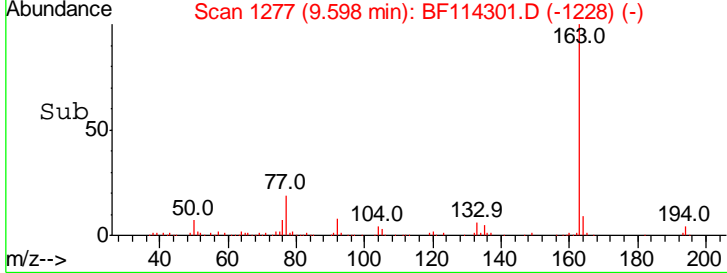
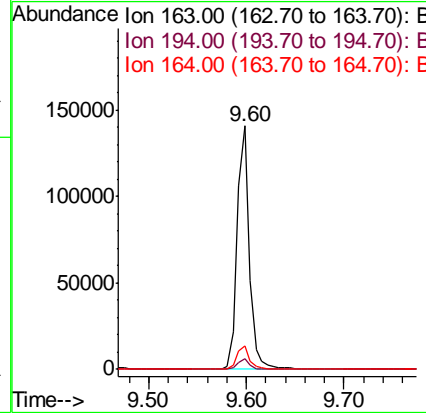
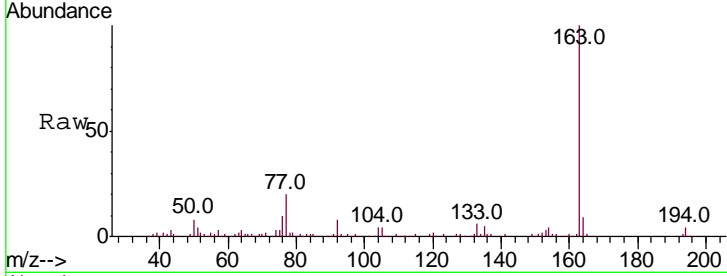
#50  
 Dimethylphthalate  
 Concen: 3.703 ng  
 RT: 9.60 min Scan# 1277  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

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Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	9.4	8.2	12.2

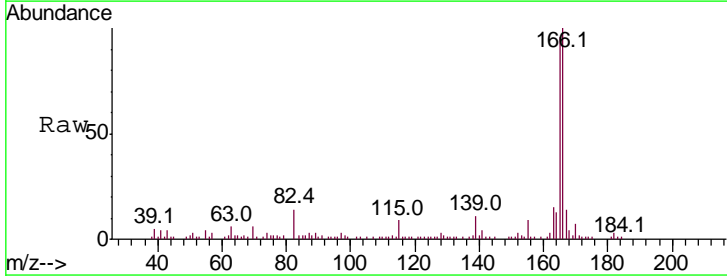
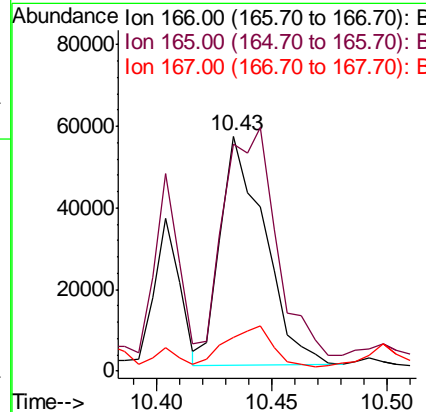
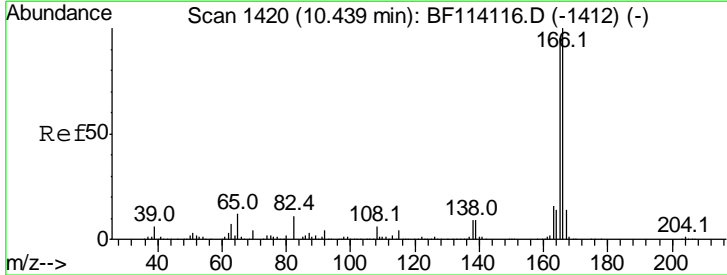
**Manual Integrations**  
**APPROVED**

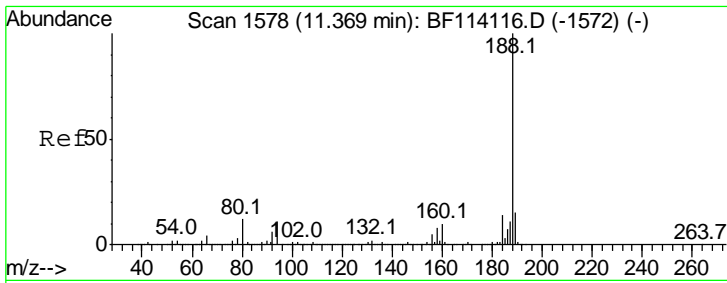
mohammad  
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#58  
 Fluorene  
 Concen: 2.385 ng  
 RT: 10.43 min Scan# 1419  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.4	76.1	114.1
167	14.3	11.1	16.7





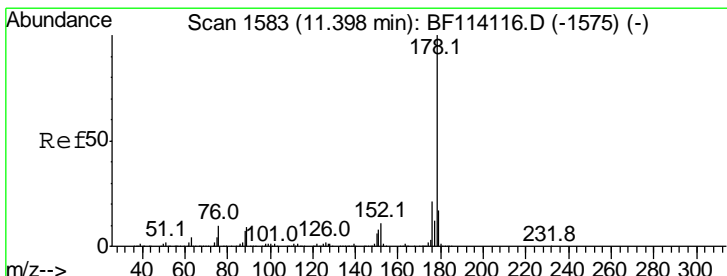
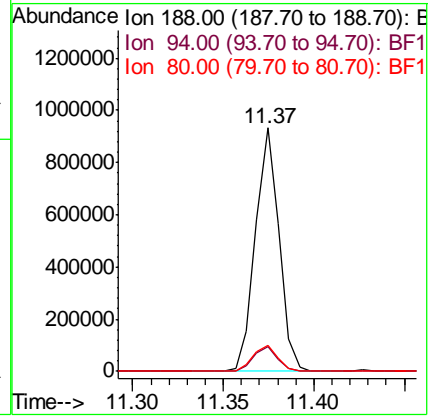
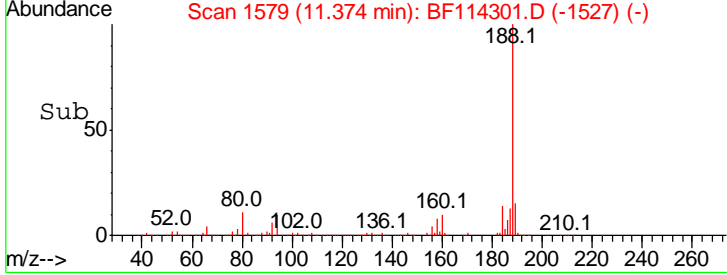
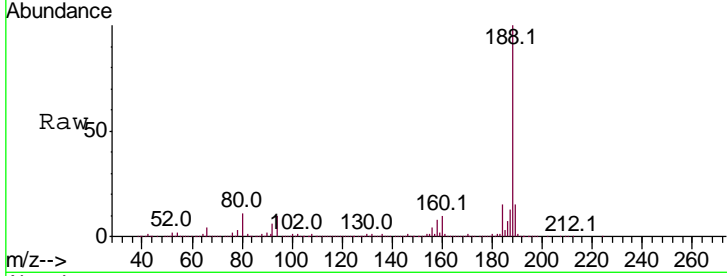
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.37 min Scan# 1579  
 Delta R.T. 0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 P026-SS007-0002-01DL

Tgt Ion	Resp	Lower	Upper
188	100		
94	10.1	8.4	12.6
80	10.7	9.2	13.8

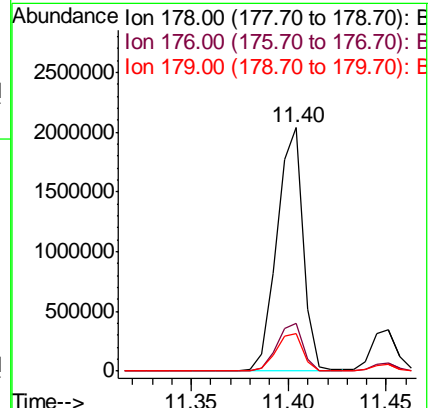
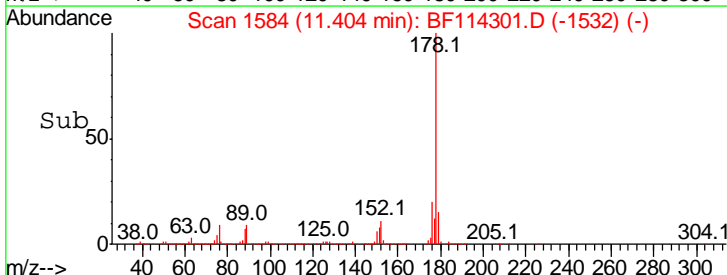
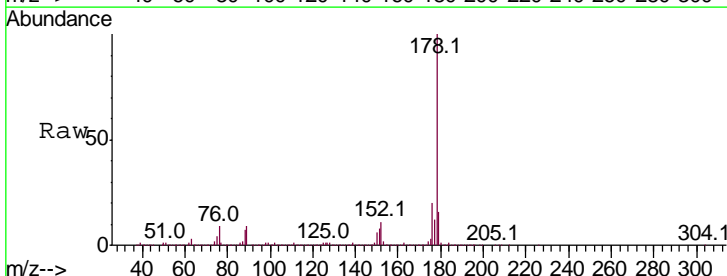
**Manual Integrations**  
**APPROVED**

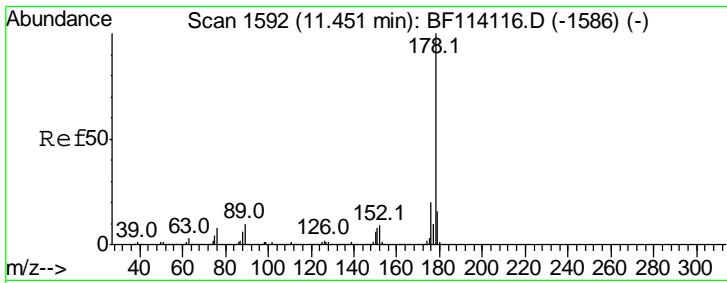
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#71  
 Phenanthrene  
 Concen: 45.796 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. 0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
178	100		
176	19.8	16.4	24.6
179	15.5	13.2	19.8





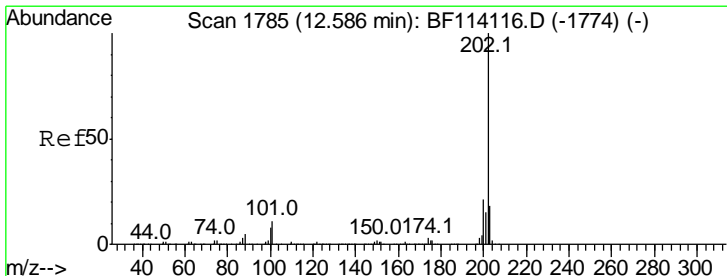
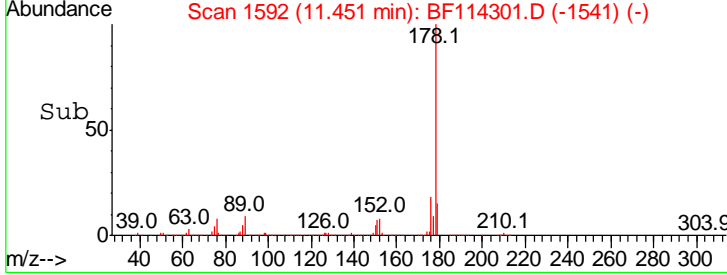
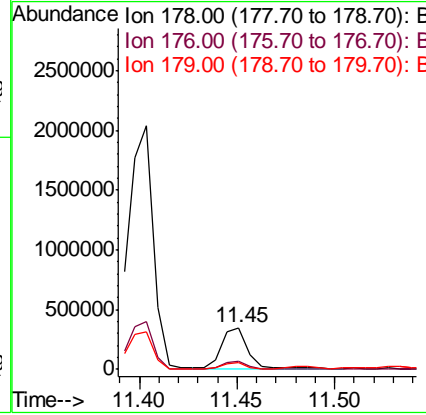
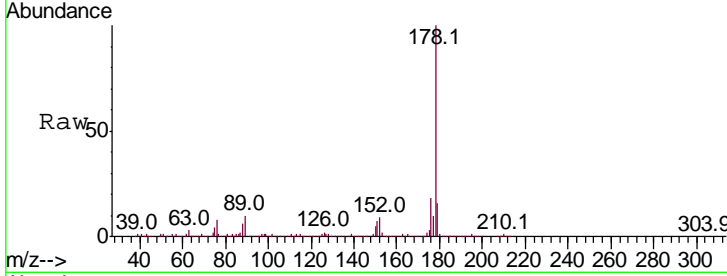
#72  
 Anthracene  
 Concen: 7.718 ng  
 RT: 11.45 min Scan# 1592  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 P026-SS007-0002-01DL

Tgt Ion	Resp	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	15.7	13.0	19.4

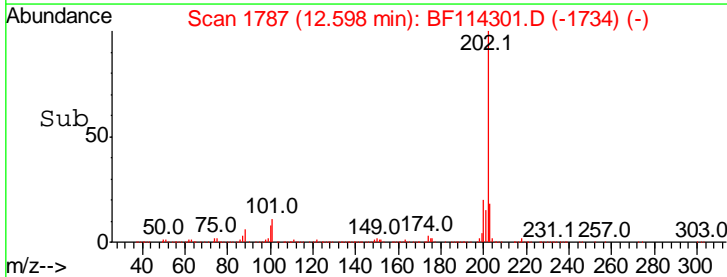
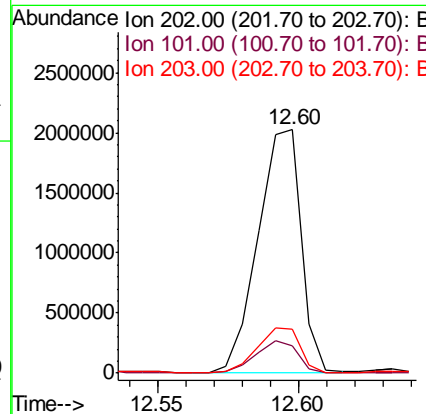
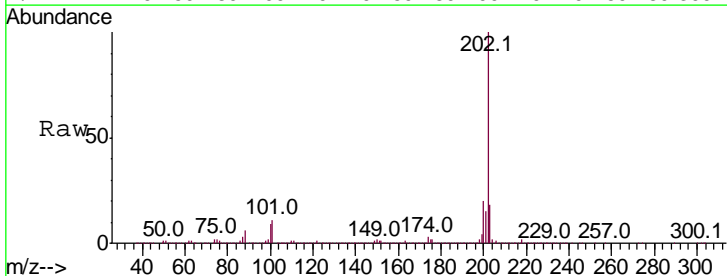
**Manual Integrations**  
**APPROVED**

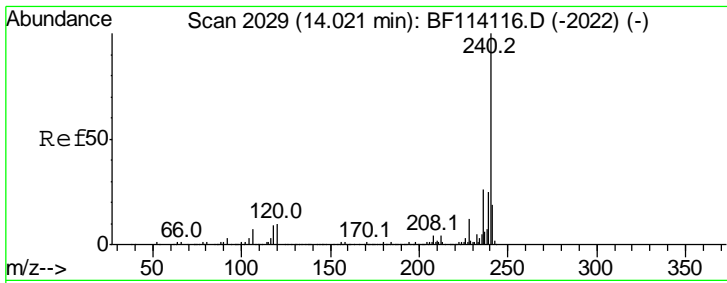
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#75  
 Fluoranthene  
 Concen: 48.366 ng  
 RT: 12.60 min Scan# 1787  
 Delta R.T. 0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
202	100		
101	11.3	0.0	31.0
203	18.3	0.0	38.4





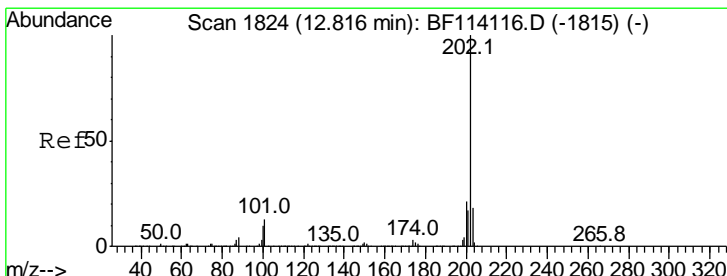
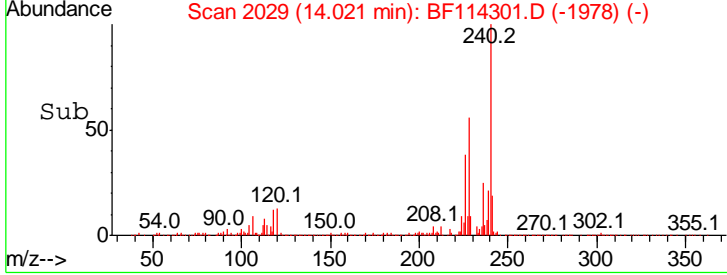
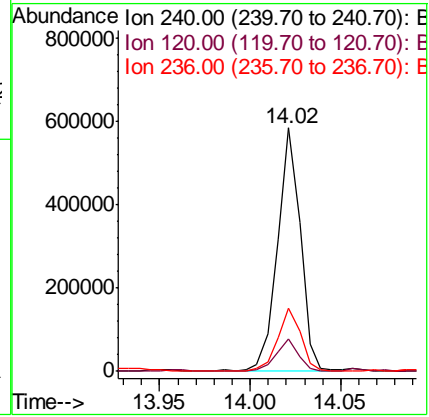
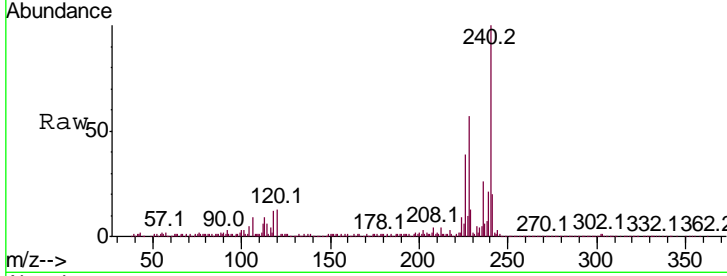
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Instrument :  
 BNA\_F  
 ClientSampleID :  
 P026-SS007-0002-01DL

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.3	8.3	12.5#
236	26.0	20.8	31.2

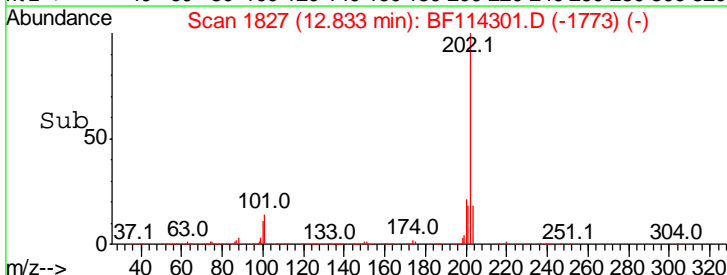
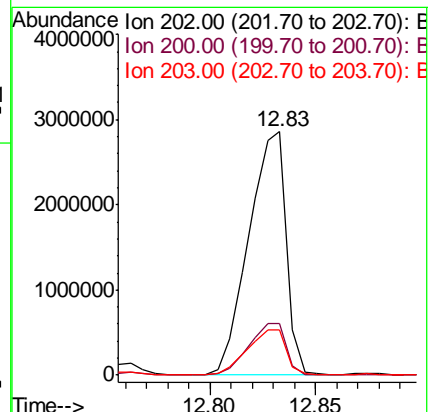
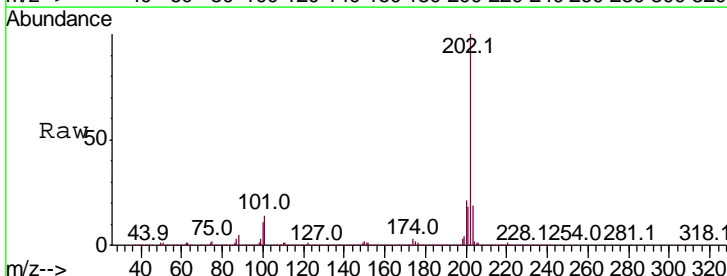
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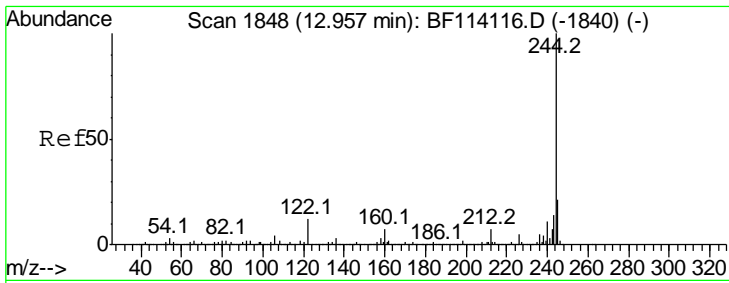
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#78  
 Pyrene  
 Concen: 85.677 ng  
 RT: 12.83 min Scan# 1827  
 Delta R.T. 0.02 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	18.8	14.5	21.7



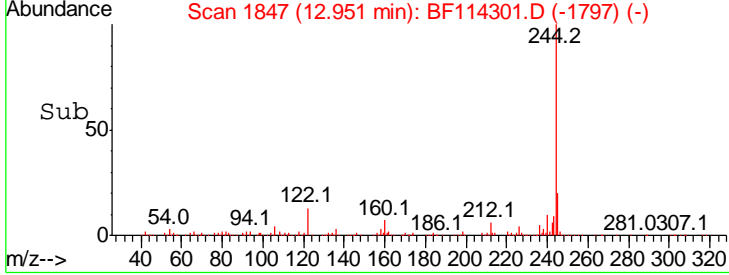
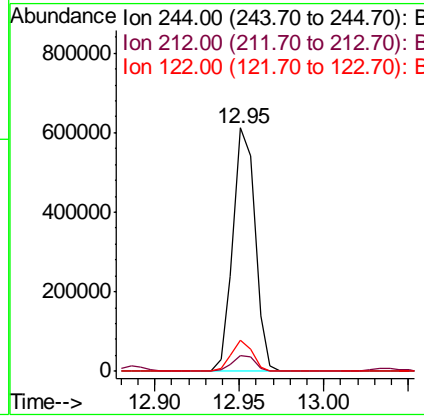
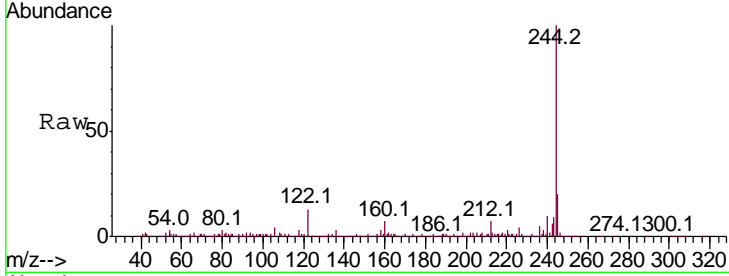


#79  
 Terphenyl-d14  
 Concen: 22.630 ng  
 RT: 12.95 min Scan# 1847  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 P026-SS007-0002-01DL

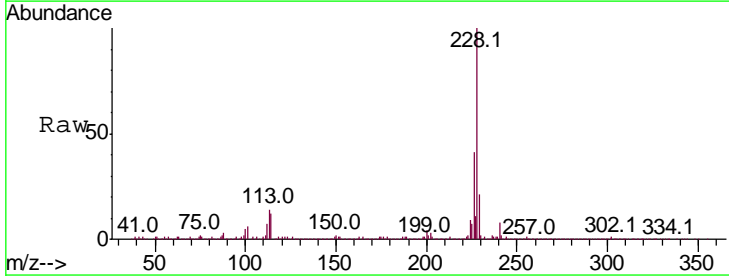
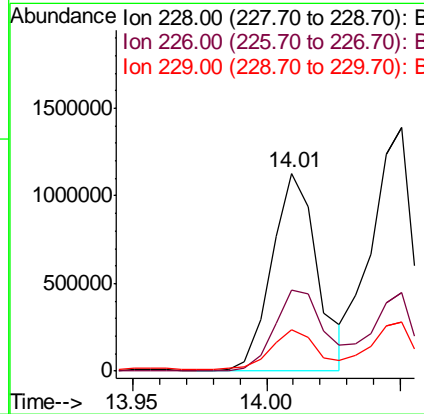
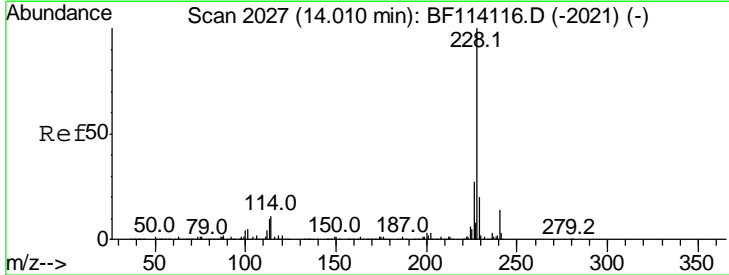
Tgt Ion	Resp	Lower	Upper
244	100		
212	6.6	5.8	8.6
122	13.0	9.4	14.2

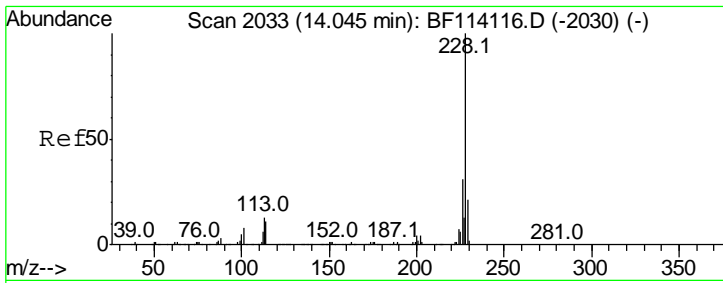
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#81  
 Benzo(a)anthracene  
 Concen: 40.746 ng m  
 RT: 14.01 min Scan# 2027  
 Delta R.T. -0.00 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
228	100		
226	41.3	22.2	33.2#
229	21.1	16.4	24.6





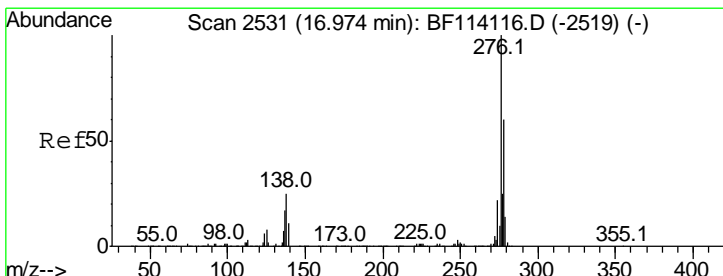
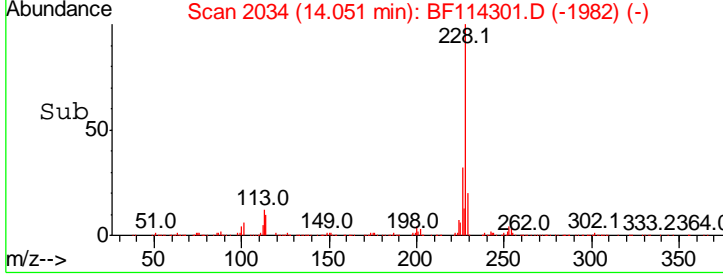
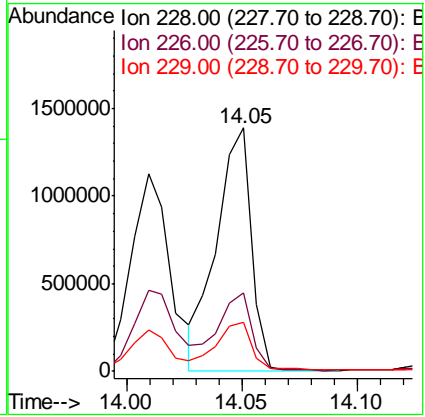
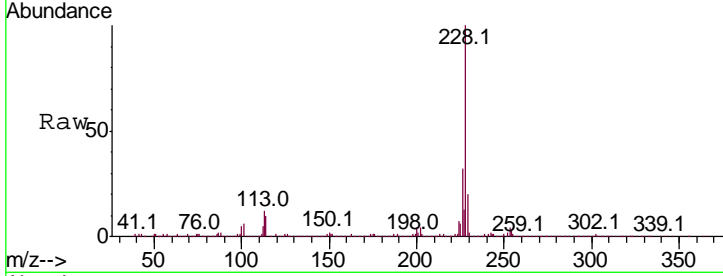
#83  
 Chrysene  
 Concen: 45.068 ng  
 RT: 14.05 min Scan# 2034  
 Delta R.T. 0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampleID :**  
 P026-SS007-0002-01DL

Tgt Ion: 228 Resp: 1452476

Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.0	37.6
229	20.4	17.0	25.6

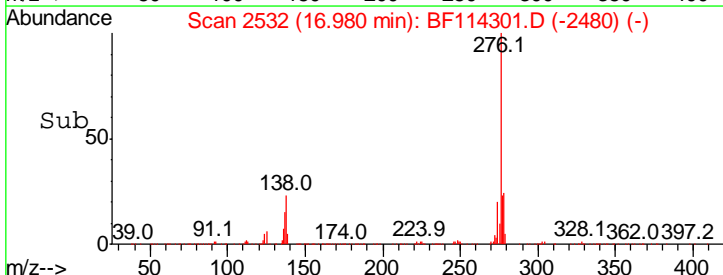
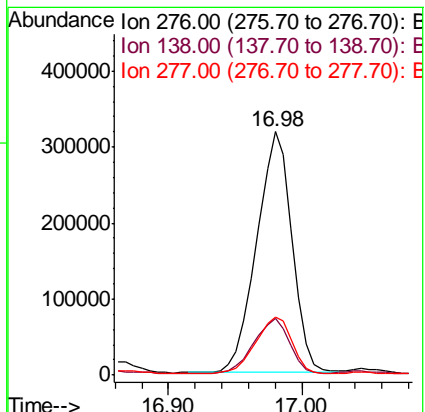
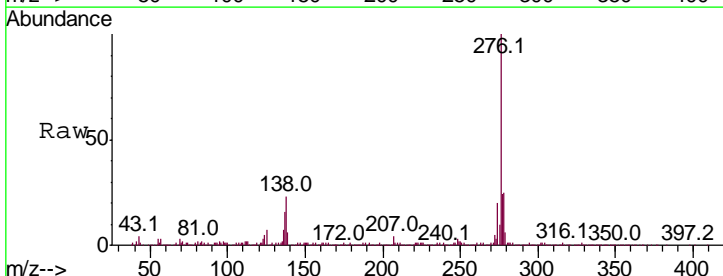
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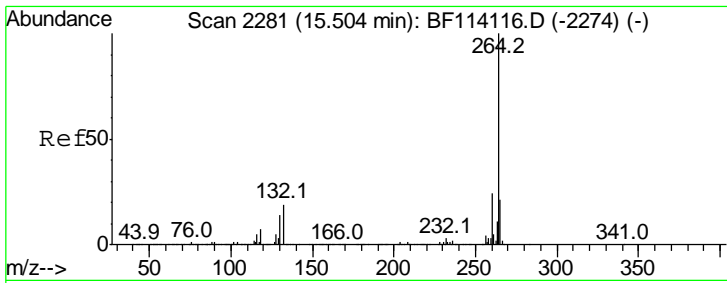


#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 20.424 ng  
 RT: 16.98 min Scan# 2532  
 Delta R.T. 0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion: 276 Resp: 581738

Ion	Ratio	Lower	Upper
276	100		
138	23.3	20.2	30.2
277	24.2	20.0	30.0





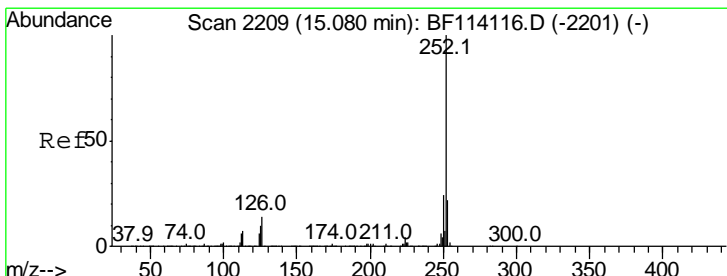
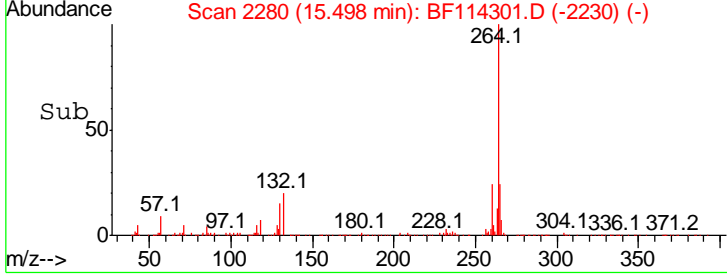
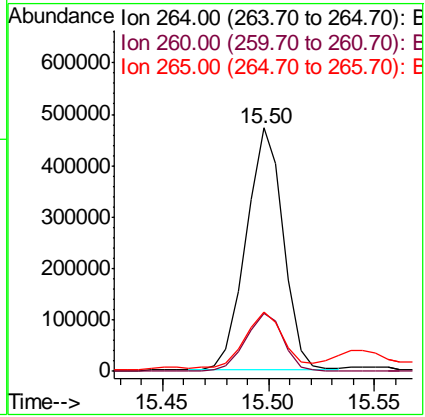
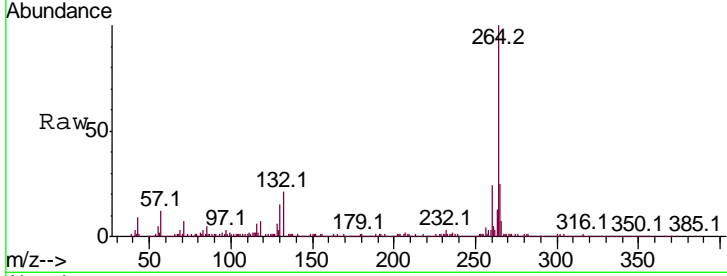
#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 P026-SS007-0002-01DL

Tgt Ion	Resp	Lower	Upper
264	100		
260	24.0	19.4	29.0
265	24.5	16.9	25.3

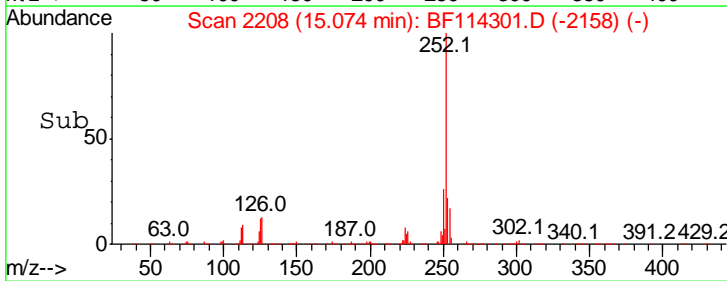
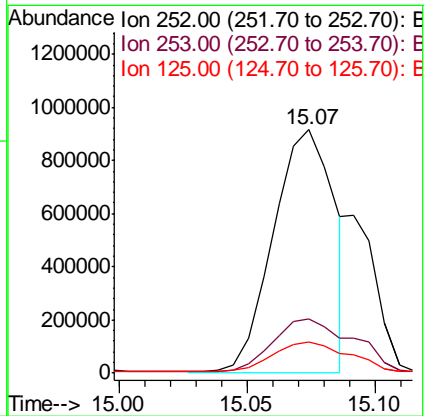
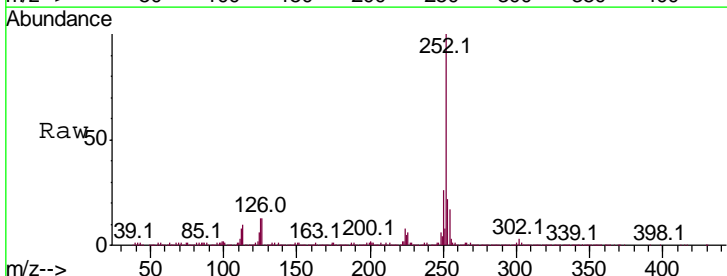
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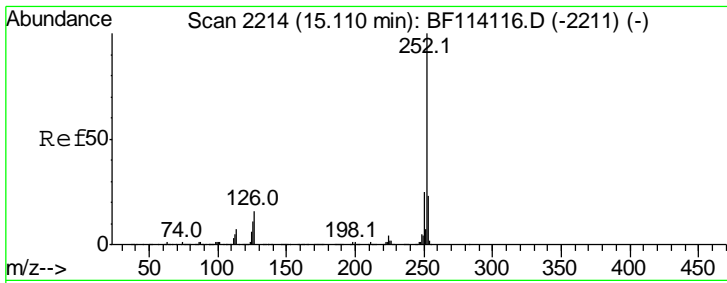
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#88  
 Benzo(b)fluoranthene  
 Concen: 41.066 ng m  
 RT: 15.07 min Scan# 2208  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	12.7	8.3	12.5#





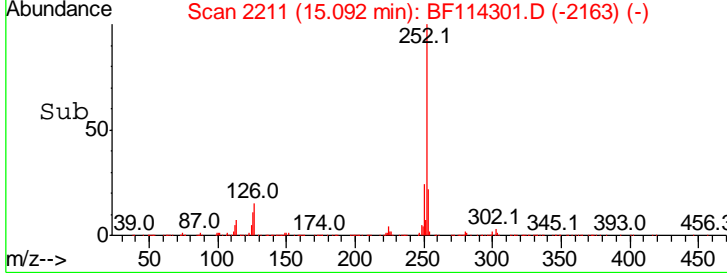
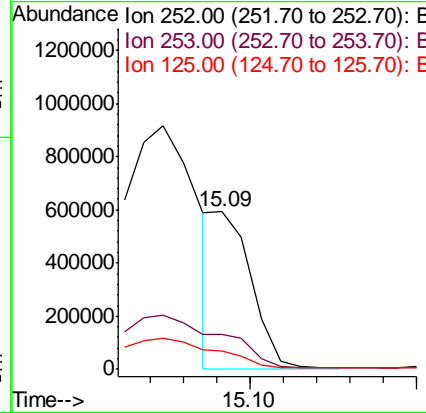
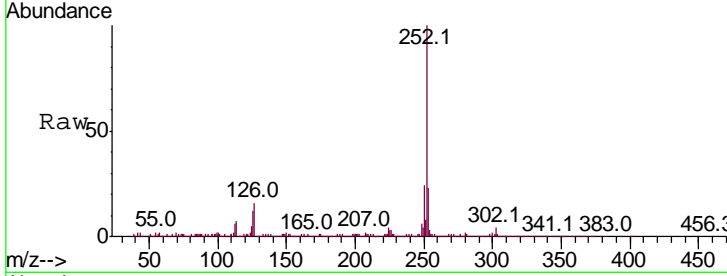
#89  
 Benzo(k)fluoranthene  
 Concen: 13.877 ng m  
 RT: 15.09 min Scan# 2211  
 Delta R.T. -0.02 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 P026-SS007-0002-01DL

Tgt Ion	Resp	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	11.8	8.6	13.0

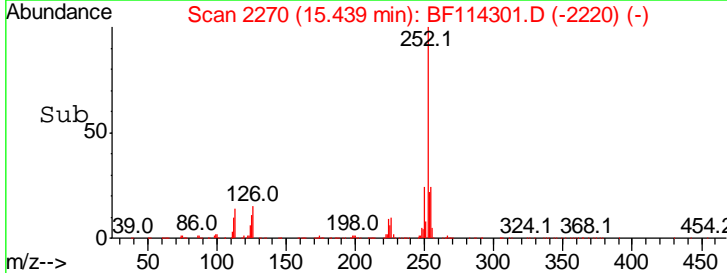
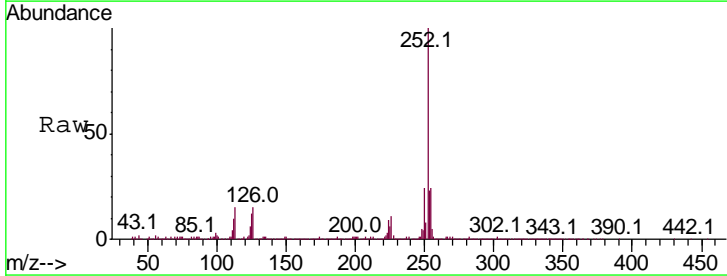
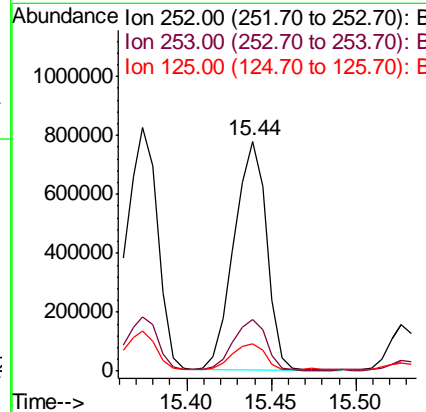
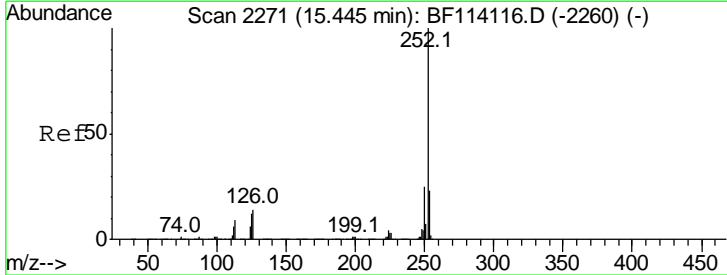
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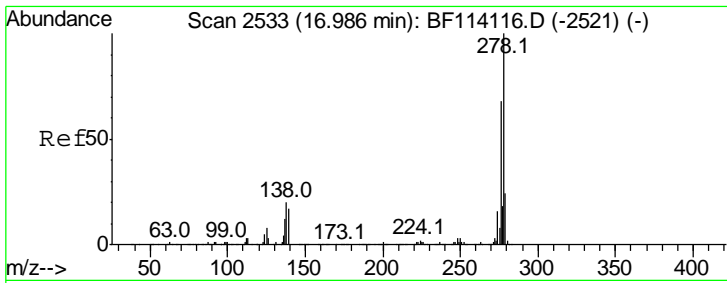


#90  
 Benzo(a)pyrene  
 Concen: 31.973 ng  
 RT: 15.44 min Scan# 2270  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	11.8	9.5	14.3







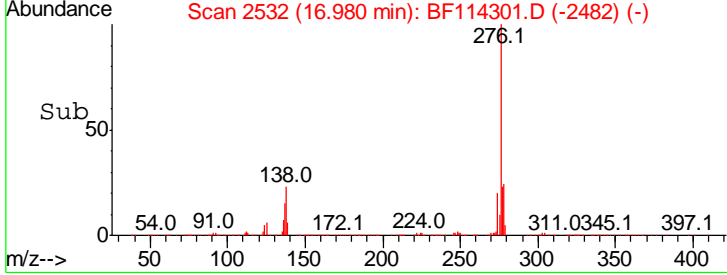
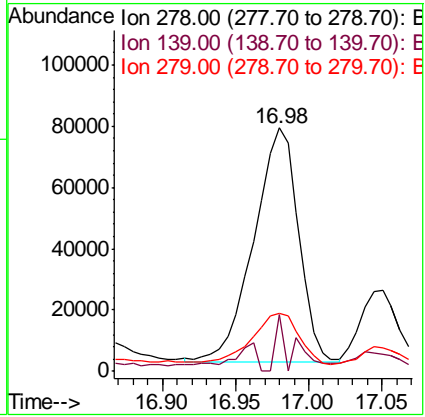
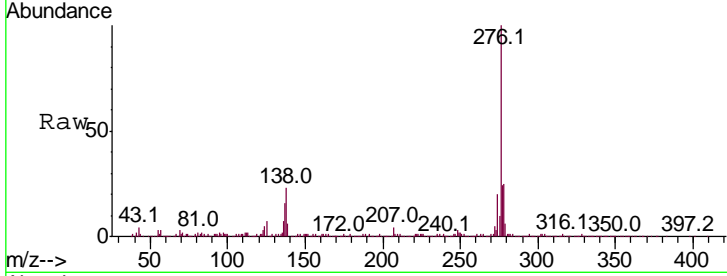
#91  
 Dibenzo(a,h)anthracene  
 Concen: 5.980 ng m  
 RT: 16.98 min Scan# 2532  
 Delta R.T. -0.01 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 P026-SS007-0002-01DL

Tgt Ion	Resp	Lower	Upper
278	100		
139	23.3	13.5	20.3#
279	23.8	19.0	28.6

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#92  
 Benzo(g,h,i)perylene  
 Concen: 23.490 ng  
 RT: 17.43 min Scan# 2609  
 Delta R.T. 0.02 min  
 Lab File: BF114301.D  
 Acq: 15 May 2019 22:45

Tgt Ion	Resp	Lower	Upper
276	100		
277	23.9	19.0	28.4
138	23.1	17.8	26.6

