

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
 Data File : BM021932.D  
 Acq On : 08 Aug 2019 14:26  
 Operator : HP/JU  
 Sample : K4028-13  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

**Instrument :**  
 BNA\_M  
**ClientSampleId :**  
 BENZ3

**Manual Integrations**  
**APPROVED**  
 mohammad  
 8/9/2019 6:12:47 AM

Quant Time: Aug 08 17:45:26 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 08 06:54:24 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	677	0.40	ng/ul	0.00
2) Naphthalene-d8	10.40	136	2972	0.40	ng/ul	-0.02
6) Acenaphthene-d10	14.27	164	1680	0.40	ng/ul	-0.01
10) Phenanthrene-d10	17.03	188	4015m	0.40	ng/ul	-0.02
16) Chrysene-d12	21.23	240	3768m	0.40	ng/ul	0.00
20) Perylene-d12	23.45	264	3684m	0.40	ng/ul	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.02	152	889	0.18	ng/ul	0.00
14) Fluoranthene-d10	19.07	212	2644m	0.20	ng/ul	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Naphthalene	10.45	128	494	0.059	ng/ul#	73
5) 2-Methylnaphthalene	12.10	142	233	0.042	ng/ul	92
7) Acenaphthylene	14.00	152	1613	0.206	ng/ul#	83
8) Acenaphthene	14.34	153	835	0.130	ng/ul	95
9) Fluorene	15.33	166	1027	0.144	ng/ul#	95
12) Phenanthrene	17.07	178	22197m	1.900	ng/ul	
13) Anthracene	17.17	178	4751m	0.477	ng/ul	
15) Fluoranthene	19.10	202	56817m	3.631	ng/ul	
17) Pyrene	19.46	202	54554	3.523	ng/ul	99
18) Benzo(a)anthracene	21.22	228	27933	2.073	ng/ul	99
19) Chrysene	21.27	228	32453	1.872	ng/ul	99
21) Benzo(b)fluoranthene	22.79	252	41264m	3.322	ng/ul	
22) Benzo(k)fluoranthene	22.83	252	17130m	1.218	ng/ul	
23) Benzo(a)pyrene	23.35	252	28732m	2.274	ng/ul	
24) Indeno(1,2,3-cd)pyrene	25.66	276	19787m	1.312	ng/ul	
25) Dibenzo(a,h)anthracene	25.67	278	5003m	0.410	ng/ul	
26) Benzo(a,h,i)perylene	26.35	276	19672m	1.449	ng/ul	

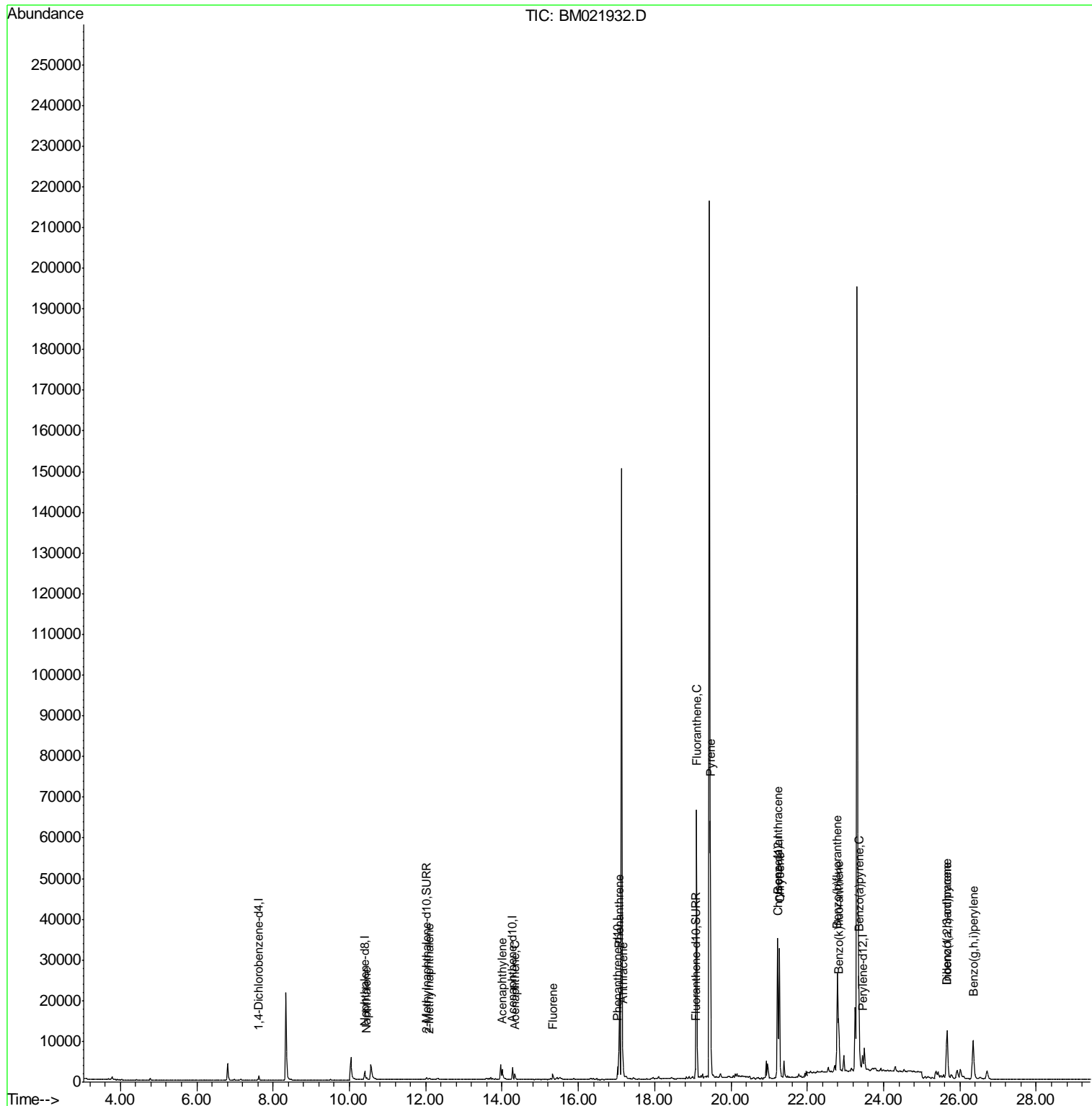
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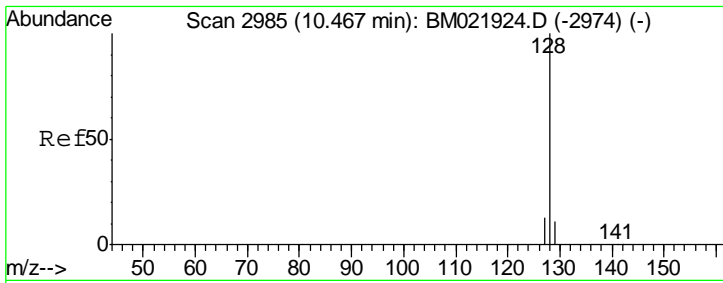
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
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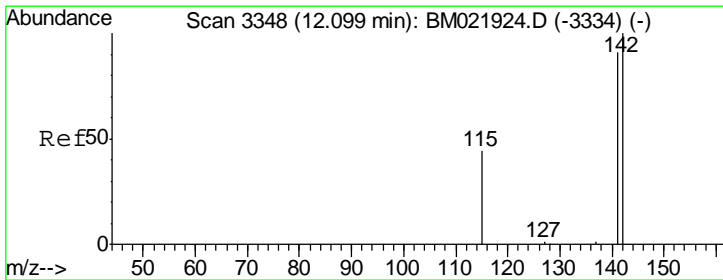
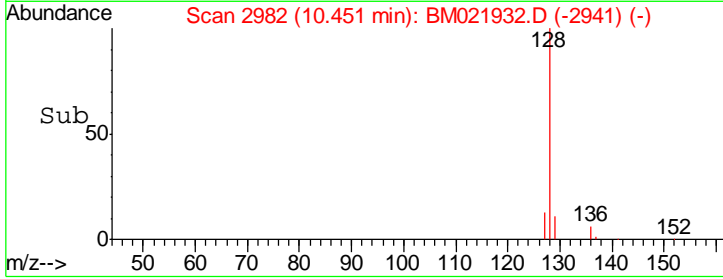
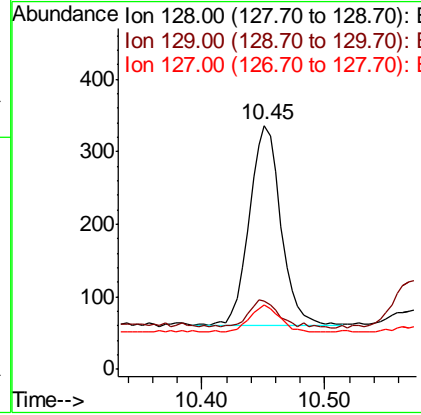
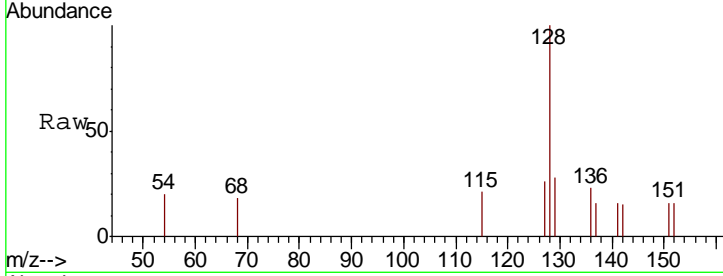
#3  
 Naphthalene  
 Concen: 0.059 ng/ul  
 RT: 10.45 min Scan# 2982  
 Delta R.T. -0.02 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

**Instrument :**  
 BNA\_M  
**ClientSampled :**  
 BENZ3

Tgt Ion	Resp	Lower	Upper
128	100		
129	28.3	12.3	18.5#
127	26.2	13.0	19.6#

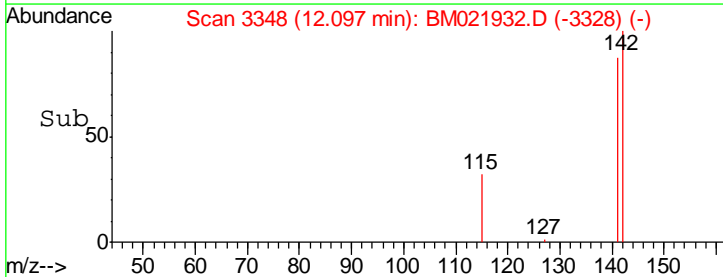
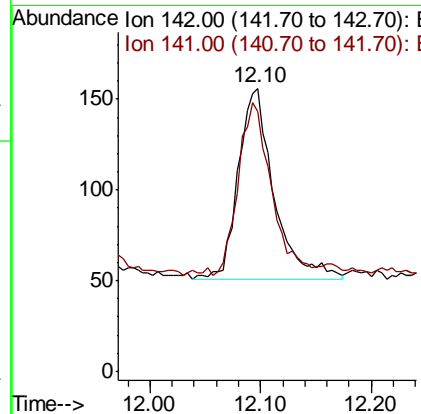
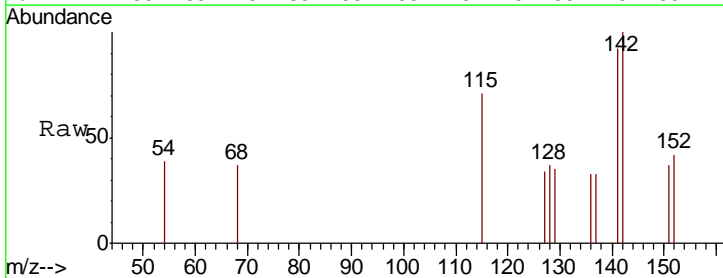
**Manual Integrations**  
**APPROVED**

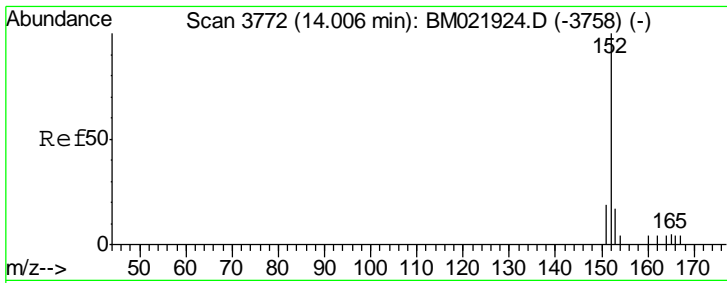
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#5  
 2-Methylnaphthalene  
 Concen: 0.042 ng/ul  
 RT: 12.10 min Scan# 3348  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

Tgt Ion	Resp	Lower	Upper
142	100		
141	85.0	74.3	111.5





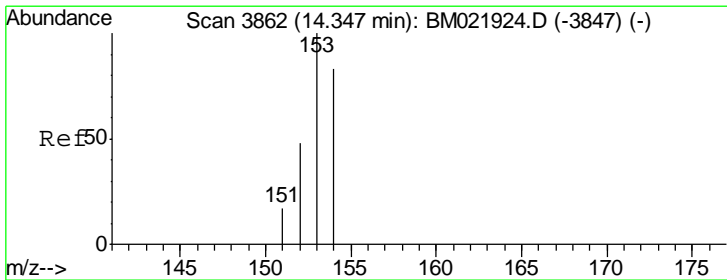
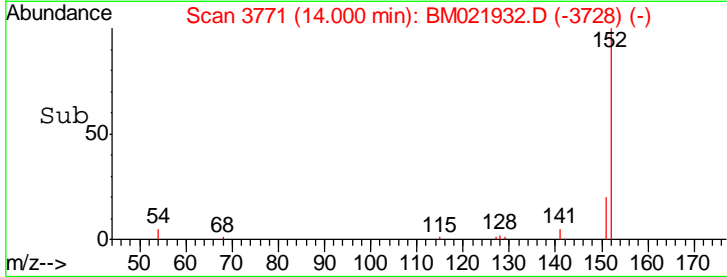
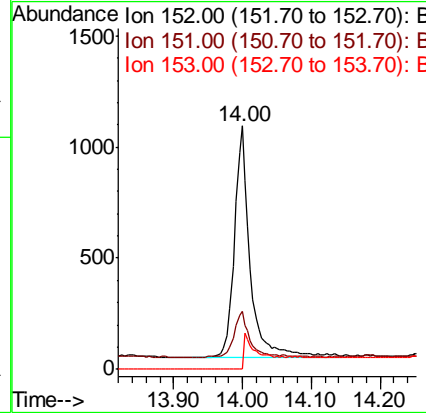
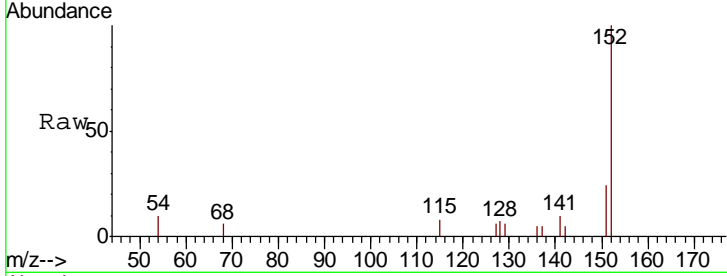
#7  
 Acenaphthylene  
 Concen: 0.206 ng/ul  
 RT: 14.00 min Scan# 3771  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

**Instrument :**  
 BNA\_M  
**ClientSampled :**  
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Tgt Ion	Resp	Lower	Upper
152	1613		
151	23.9	18.3	27.5
153	0.0	12.8	19.2#

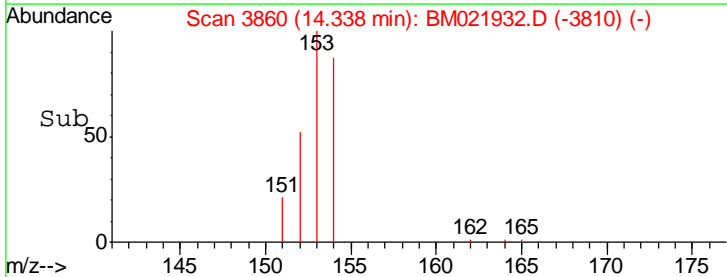
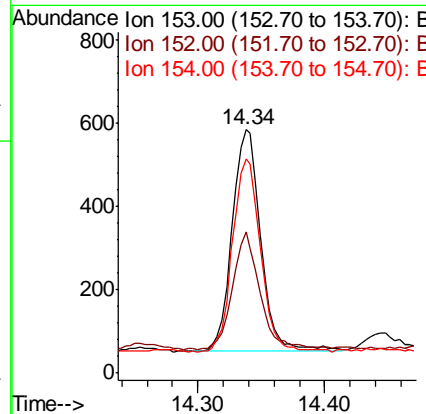
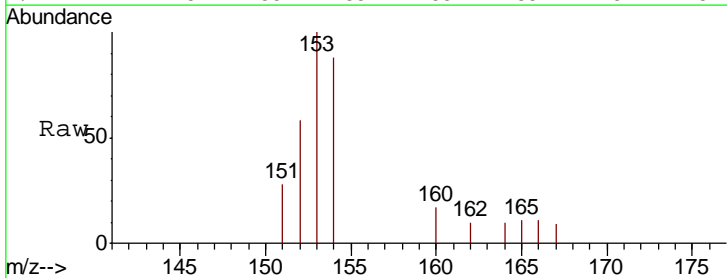
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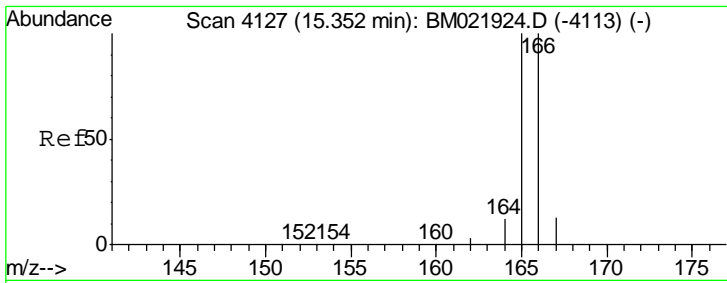
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#8  
 Acenaphthene  
 Concen: 0.130 ng/ul  
 RT: 14.34 min Scan# 3860  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

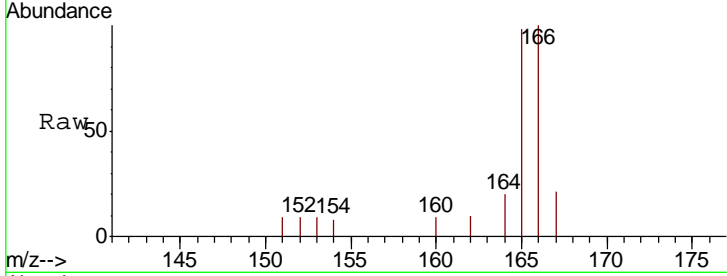
Tgt Ion	Resp	Lower	Upper
153	835		
152	58.0	41.3	61.9
154	88.2	72.3	108.5





#9  
 Fluorene  
 Concen: 0.144 ng/ul  
 RT: 15.33 min Scan# 4123  
 Delta R.T. -0.02 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

**Instrument :**  
 BNA\_M  
**ClientSampled :**  
 BENZ3

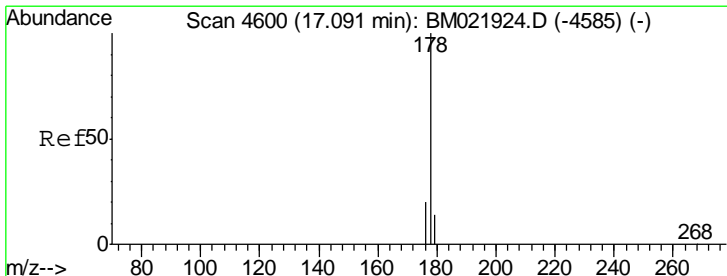
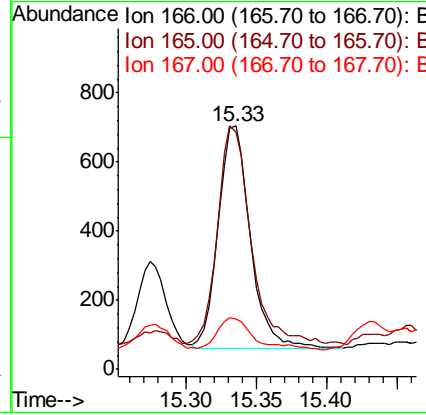
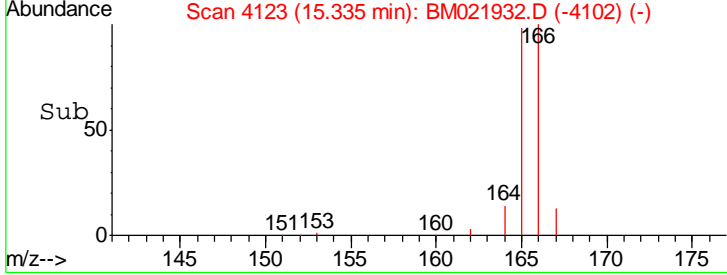


Tgt Ion: 166 Resp: 1027

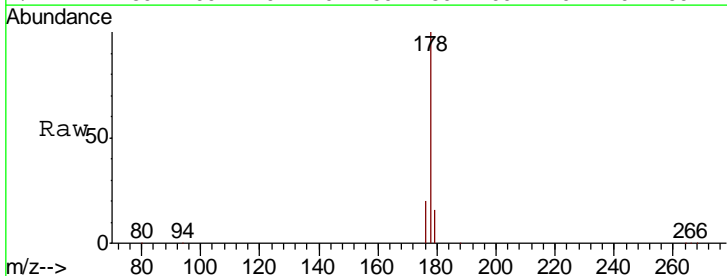
Ion	Ratio	Lower	Upper
166	100		
165	97.6	81.4	122.0
167	20.7	13.7	20.5#

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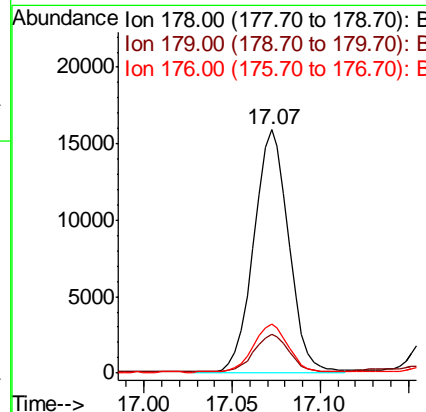
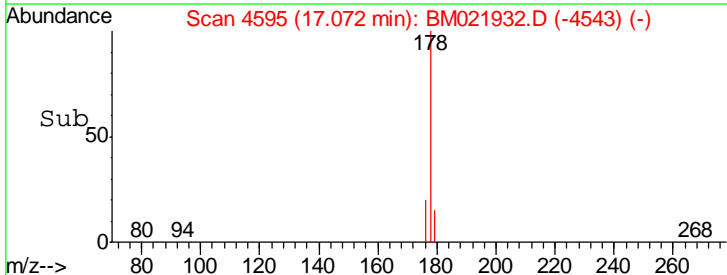


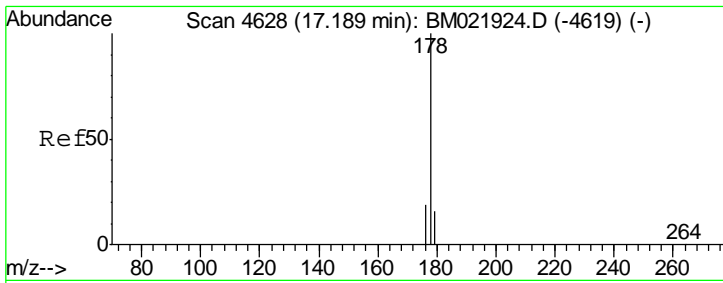
#12  
 Phenanthrene  
 Concen: 1.900 ng/ul m  
 RT: 17.07 min Scan# 4595  
 Delta R.T. -0.02 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26



Tgt Ion: 178 Resp: 22197

Ion	Ratio	Lower	Upper
178	100		
179	15.9	14.2	21.2
176	20.0	16.8	25.2





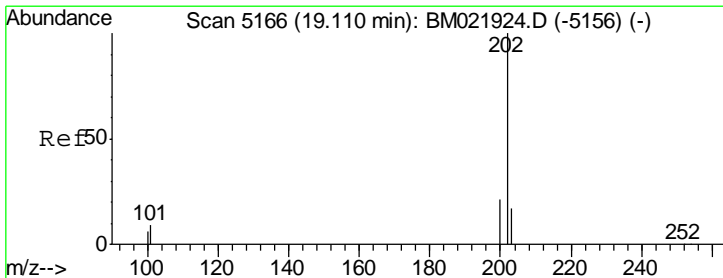
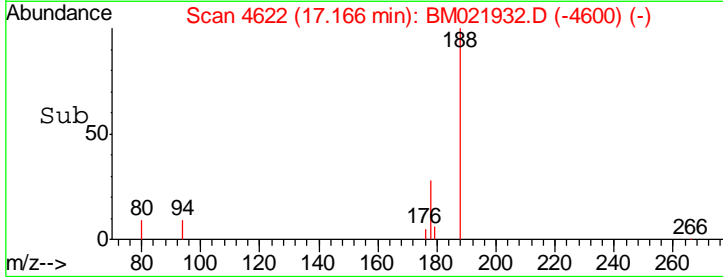
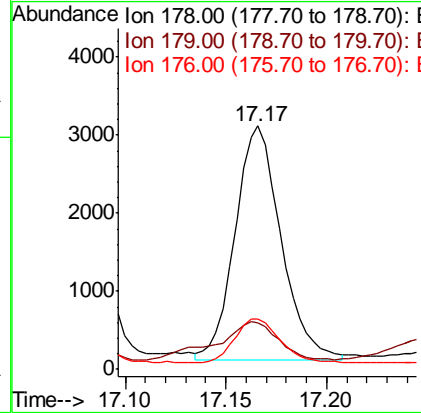
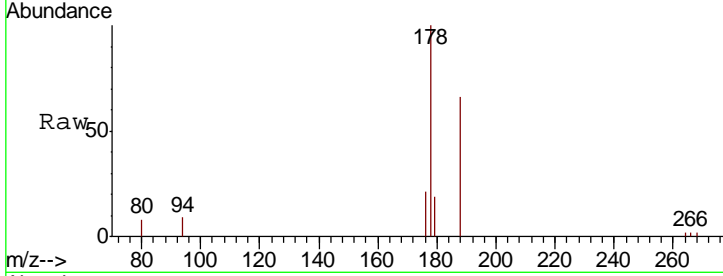
#13  
 Anthracene  
 Concen: 0.477 ng/ul m  
 RT: 17.17 min Scan# 4622  
 Delta R.T. -0.02 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

Instrument :  
 BNA\_M  
 ClientSampled :  
 BENZ3

Tgt Ion	Resp	Lower	Upper
178	100		
179	19.2	15.5	23.3
176	20.6	16.6	25.0

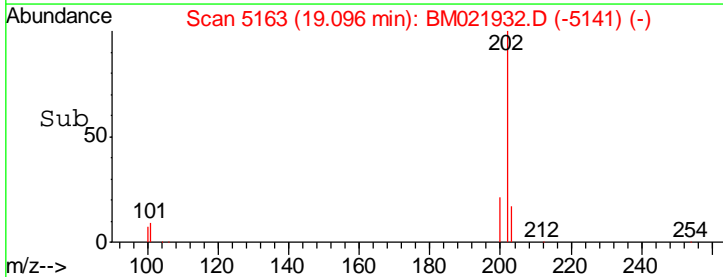
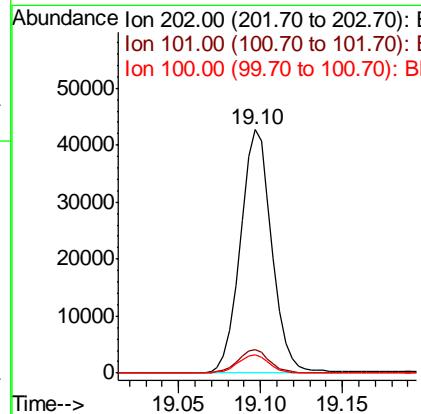
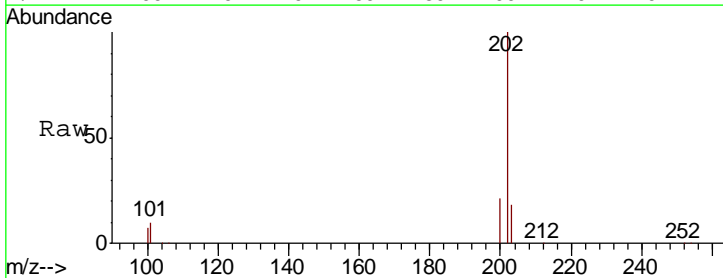
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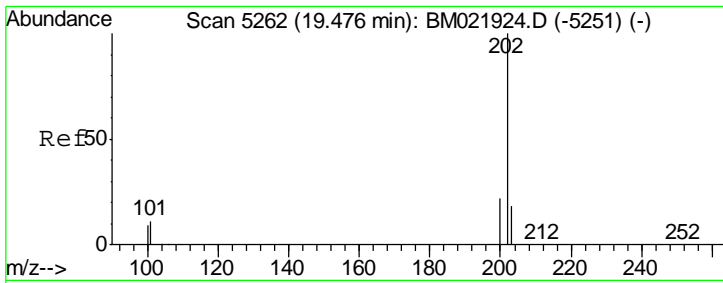
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#15  
 Fluoranthene  
 Concen: 3.631 ng/ul m  
 RT: 19.10 min Scan# 5163  
 Delta R.T. -0.02 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

Tgt Ion	Resp	Lower	Upper
202	100		
101	9.5	0.0	30.2
100	7.3	0.0	28.1





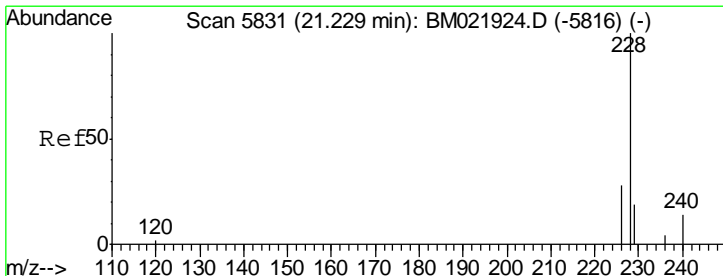
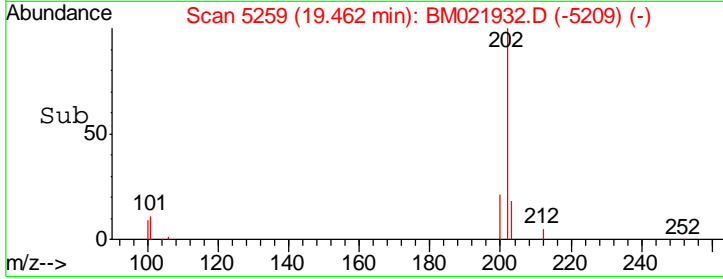
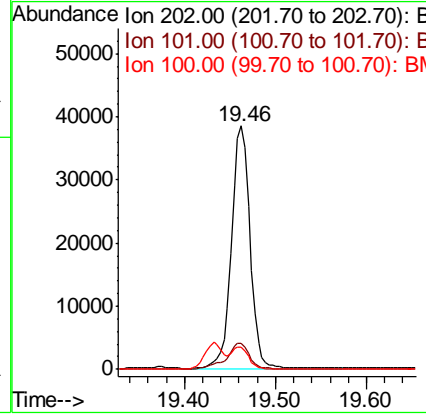
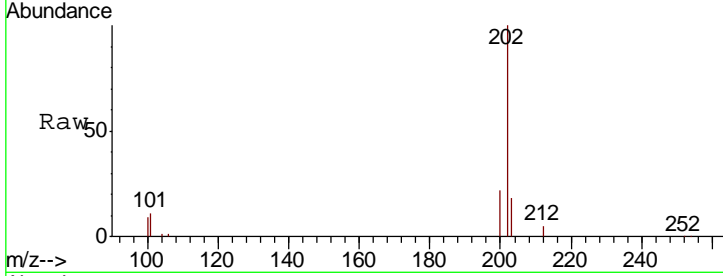
#17  
 Pyrene  
 Concen: 3.523 ng/ul  
 RT: 19.46 min Scan# 5259  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

Instrument :  
 BNA\_M  
 ClientSampled :  
 BENZ3

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.3	12.5
100	9.1	7.2	10.8

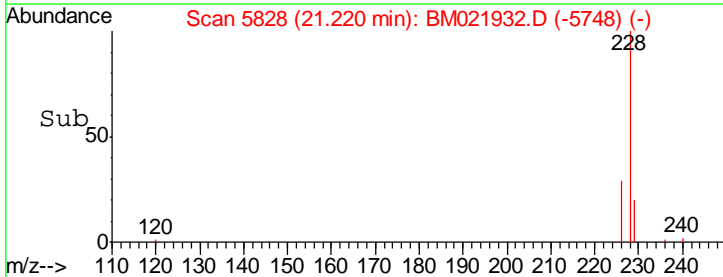
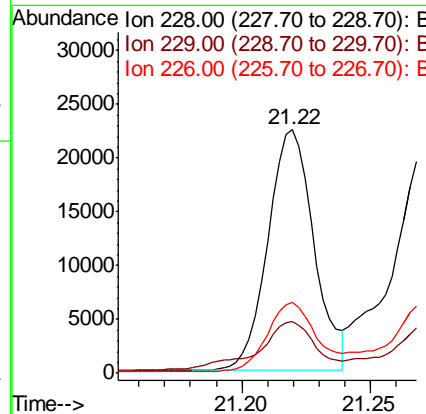
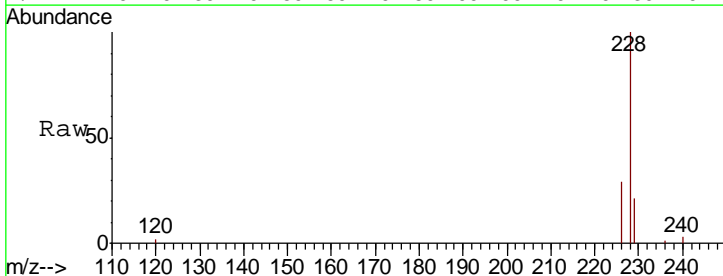
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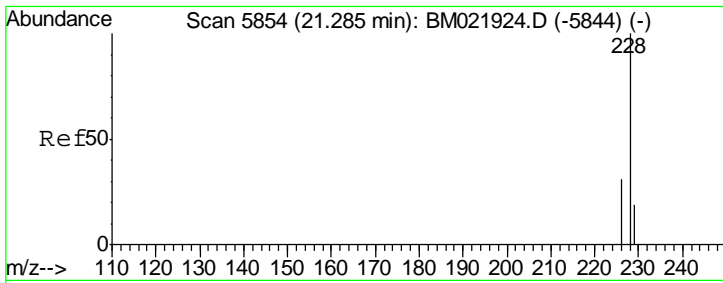
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#18  
 Benzo(a)anthracene  
 Concen: 2.073 ng/ul  
 RT: 21.22 min Scan# 5828  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.2	17.2	25.8
226	29.3	22.6	34.0





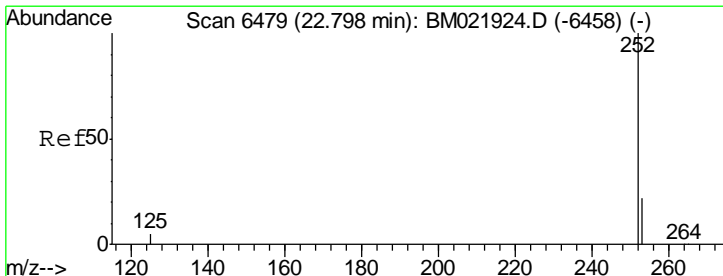
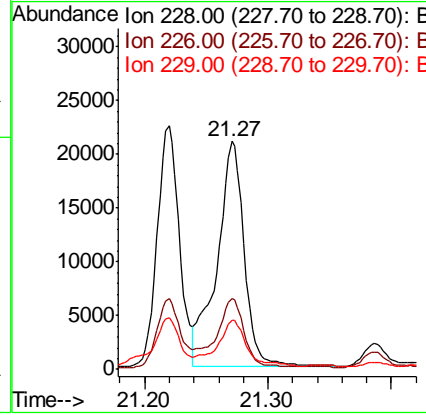
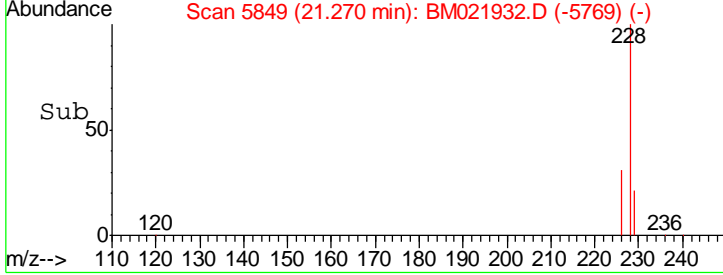
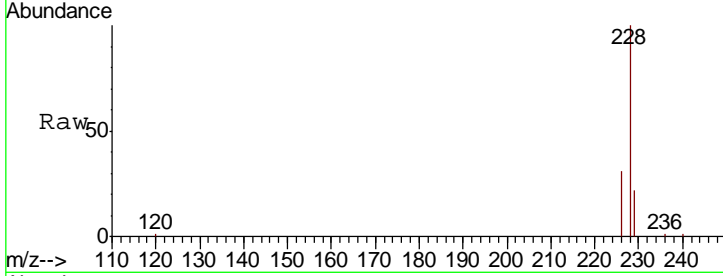
#19  
 Chrysene  
 Concen: 1.872 ng/ul  
 RT: 21.27 min Scan# 5849  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

**Instrument :**  
 BNA\_M  
**ClientSampled :**  
 BENZ3

Tgt Ion	Resp	Lower	Upper
228	32453		
226	100	24.9	37.3
229	31.4	16.6	25.0

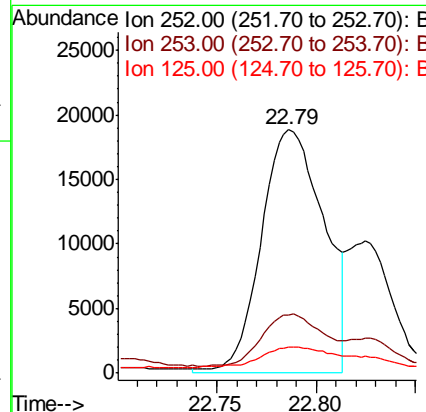
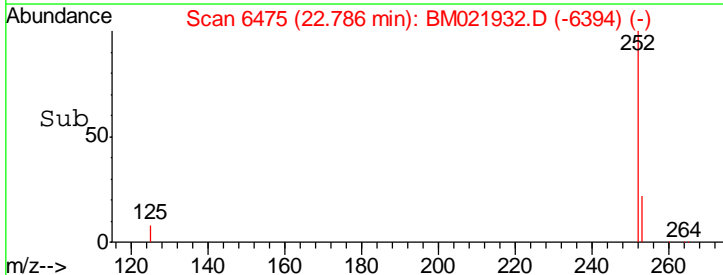
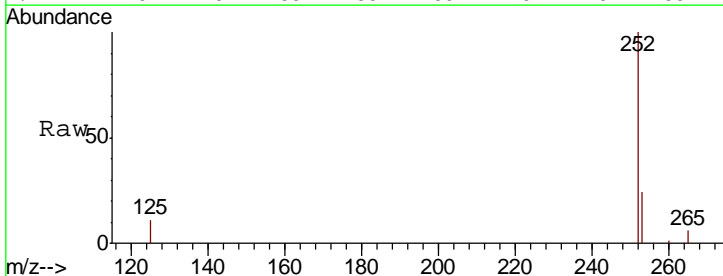
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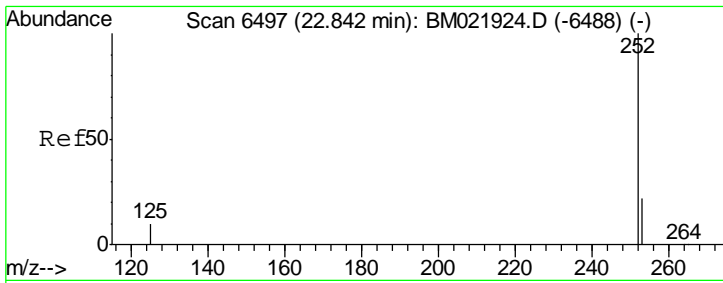


#21  
 Benzo(b)fluoranthene  
 Concen: 3.322 ng/ul m  
 RT: 22.79 min Scan# 6475  
 Delta R.T. -0.00 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

Tgt Ion	Resp	Lower	Upper
252	41264		
253	100	0.0	67.4
125	24.0	0.0	31.0







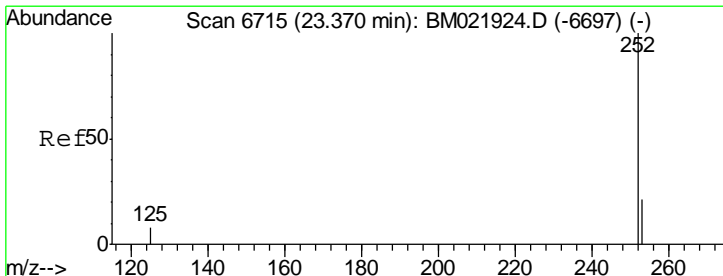
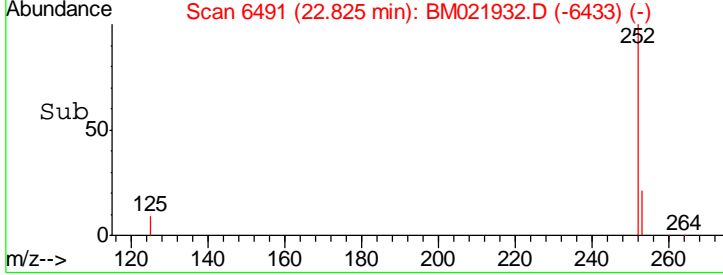
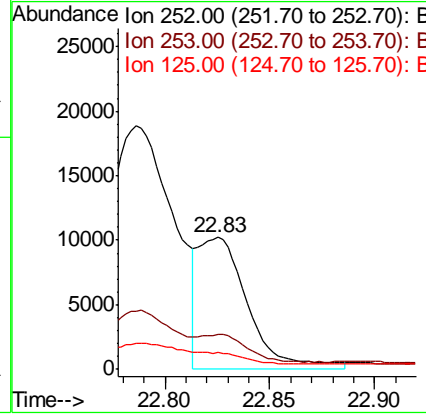
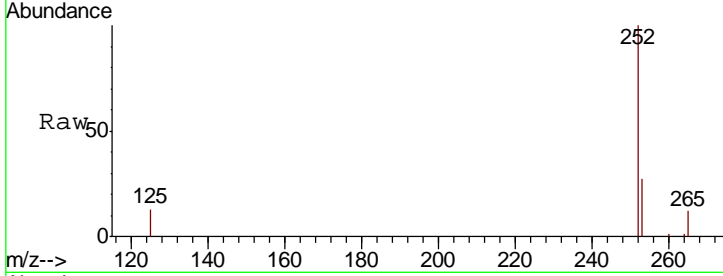
#22  
 Benzo(k)fluoranthene  
 Concen: 1.218 ng/ul m  
 RT: 22.83 min Scan# 6491  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

**Instrument :**  
 BNA\_M  
**ClientSampled :**  
 BENZ3

Tgt Ion	Resp	Lower	Upper
252	17130		
253	26.8	27.0	40.4#
125	12.6	12.2	18.2

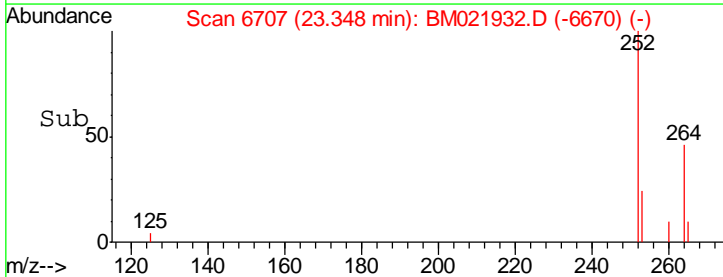
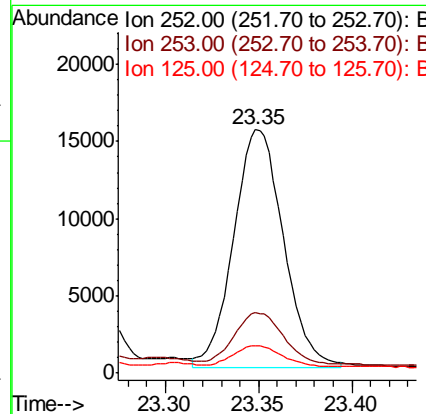
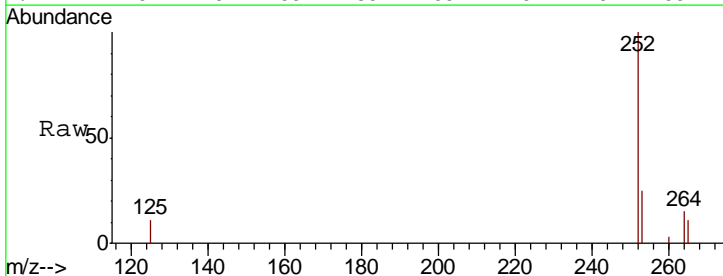
**Manual Integrations**  
**APPROVED**

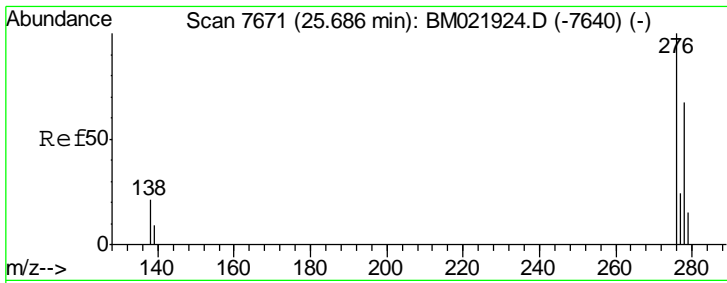
mohammad  
 8/9/2019 6:12:47 AM



#23  
 Benzo(a)pyrene  
 Concen: 2.274 ng/ul m  
 RT: 23.35 min Scan# 6707  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

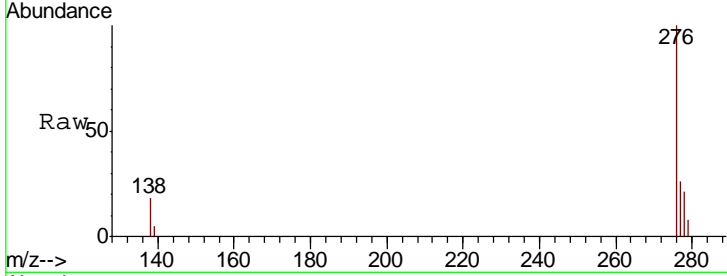
Tgt Ion	Resp	Lower	Upper
252	28732		
253	25.1	31.7	47.5#
125	11.4	14.6	21.8#





#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.312 ng/ul m  
 RT: 25.66 min Scan# 7662  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

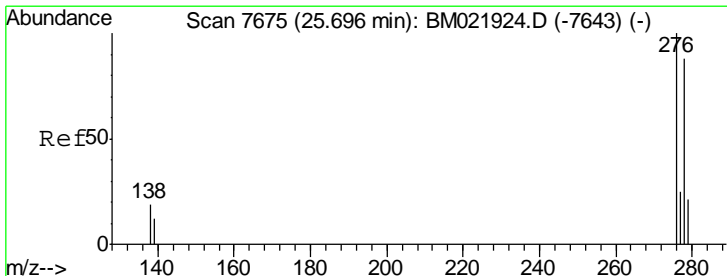
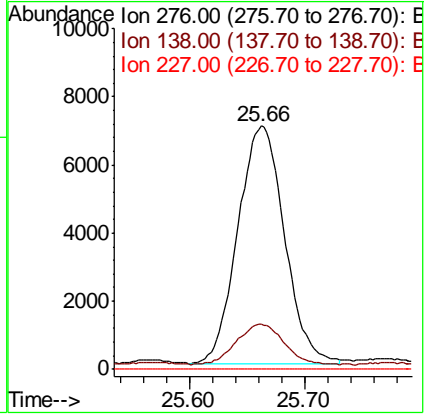
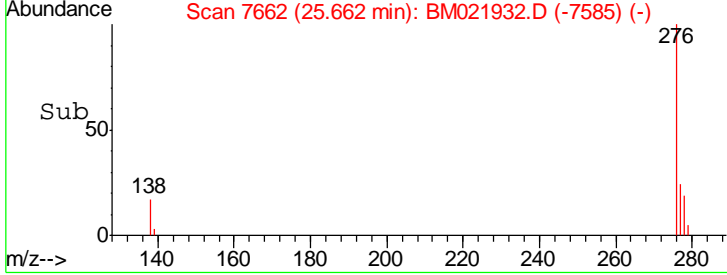
**Instrument :**  
 BNA\_M  
**ClientSampled :**  
 BENZ3



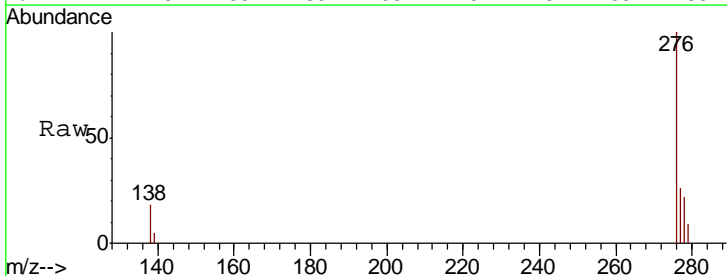
Tgt Ion	Resp	Lower	Upper
276	19787		
276	100		
138	1.5	15.1	22.7#
227	0.0	0.0	0.0

**Manual Integrations**  
**APPROVED**

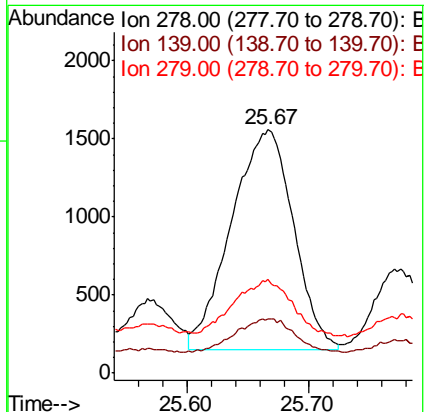
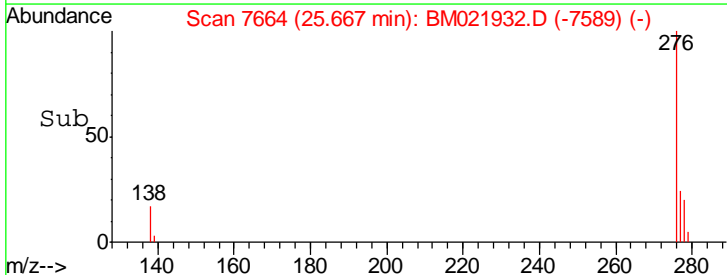
mohammad  
 8/9/2019 6:12:47 AM

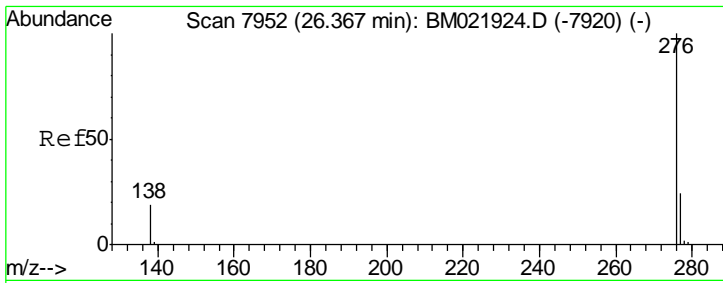


#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.410 ng/ul m  
 RT: 25.67 min Scan# 7664  
 Delta R.T. -0.02 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26



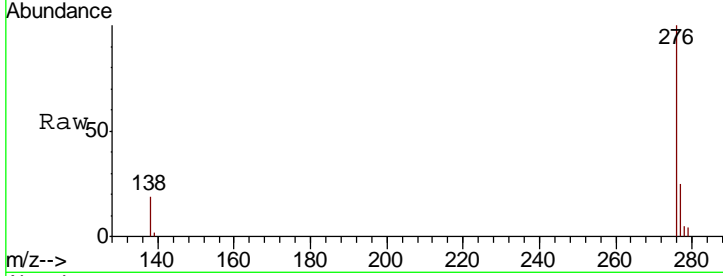
Tgt Ion	Resp	Lower	Upper
278	5003		
278	100		
139	22.2	14.2	21.2#
279	38.5	28.3	42.5





#26  
 Benzo(a,h,i)perylene  
 Concen: 1.449 ng/ul m  
 RT: 26.35 min Scan# 7944  
 Delta R.T. -0.01 min  
 Lab File: BM021932.D  
 Acq: 08 Aug 2019 14:26

**Instrument :**  
 BNA\_M  
**ClientSampled :**  
 BENZ3



Tot Ion: 276 Resp: 19672

Ion	Ratio	Lower	Upper
276	100		
138	18.9	15.5	23.3
277	25.4	21.4	32.2

**Manual Integrations**  
**APPROVED**  
 mohammad  
 8/9/2019 6:12:47 AM

