

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053119\
 Data File : BM020634.D
 Acq On : 31 May 2019 17:10
 Operator : JU/SJ
 Sample : K3068-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-6N(8.5-9.5)DL

Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:48:50 AM

Quant Time: May 31 17:47:08 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM053119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 31 15:48:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	301222	20.00	ng	0.00
21) Naphthalene-d8	10.63	136	1202199	20.00	ng	0.00
39) Acenaphthene-d10	14.47	164	613460	20.00	ng	0.00
64) Phenanthrene-d10	17.22	188	1319485	20.00	ng	0.00
76) Chrysene-d12	21.39	240	1367239	20.00	ng	0.00
87) Perylene-d12	23.69	264	1585870	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	785055	45.85	ng	0.00
7) Phenol-d6	6.99	99	1084853	43.03	ng	0.00
23) Nitrobenzene-d5	8.99	82	661407	28.50	ng	0.00
42) 2,4,6-Tribromophenol	15.96	330	303535	39.94	ng	0.00
45) 2-Fluorobiphenyl	13.09	172	1167165	25.29	ng	0.00
79) Terphenyl-d14	19.84	244	1518327	18.57	ng	0.00
Target Compounds						
31) Naphthalene	10.67	128	140211	2.268	ng	99
50) Dimethylphthalate	13.93	163	110544	2.109	ng	100
52) Acenaphthene	14.53	154	215513	5.605	ng	97
55) Dibenzofuran	14.87	168	185687	3.109	ng	99
58) Fluorene	15.52	166	271329	5.525	ng	97
71) Phenanthrene	17.26	178	4958722	66.299	ng	99
72) Anthracene	17.34	178	1091525	14.581	ng	100
73) Carbazole	17.62	167	435358	6.409	ng	99
75) Fluoranthene	19.27	202	6289666	75.619	ng	99
78) Pyrene	19.64	202	6334690	60.376	ng	99
81) Benzo(a)anthracene	21.38	228	3070841	32.252	ng	99
83) Chrysene	21.43	228	2824127m	31.204	ng	
86) Indeno(1,2,3-cd)pyrene	26.01	276	1614925	17.441	ng	97
88) Benzo(b)fluoranthene	23.00	252	3236616m	30.879	ng	
89) Benzo(k)fluoranthene	23.04	252	1117150m	10.906	ng	
90) Benzo(a)pyrene	23.59	252	2586673	27.207	ng	99
91) Dibenzo(a,h)anthracene	26.02	278	415473	4.504	ng	# 82
92) Benzo(g,h,i)perylene	26.73	276	1594766	18.614	ng	100

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

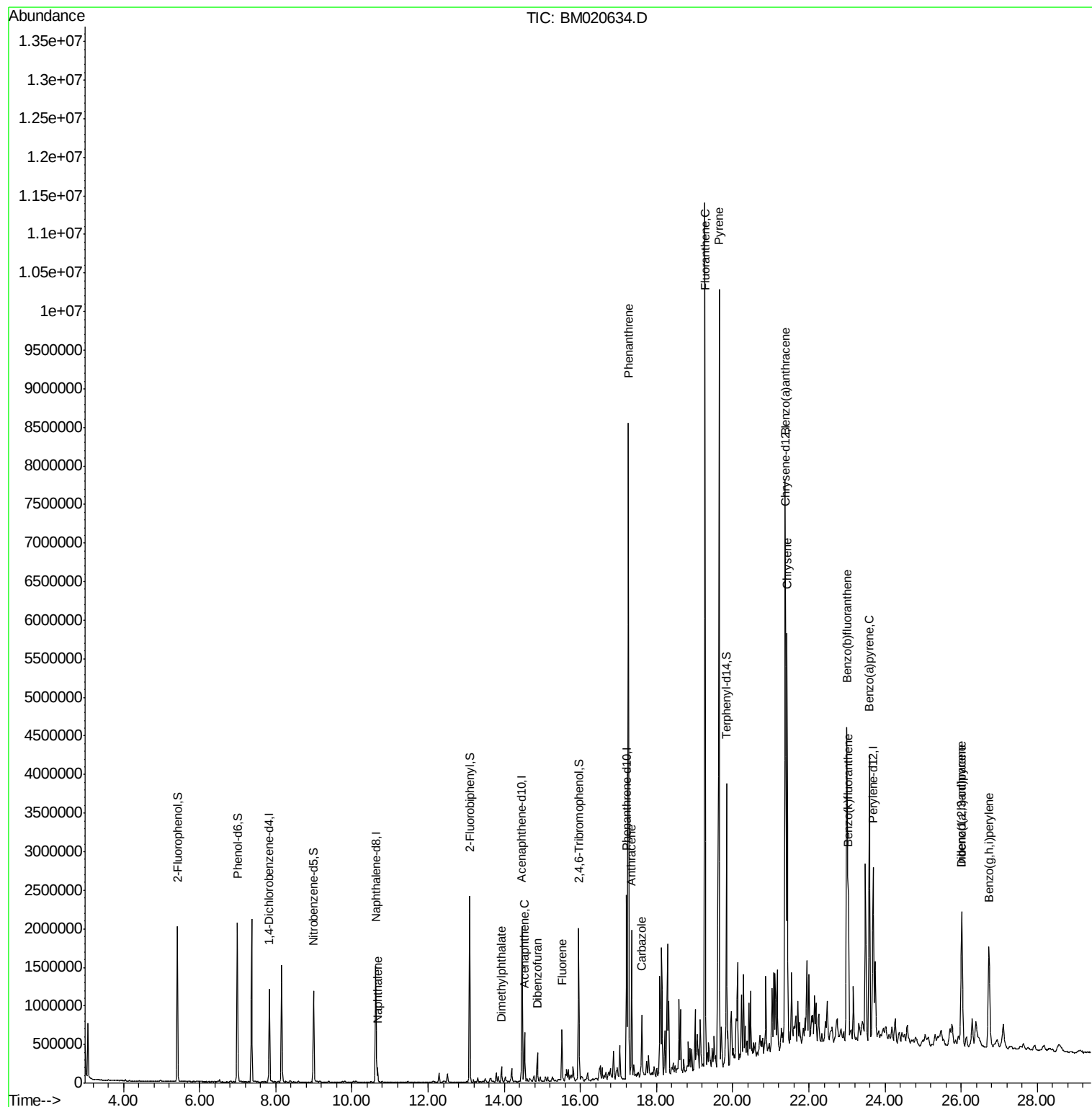
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053119\
Data File : BM020634.D
Acq On : 31 May 2019 17:10
Operator : JU/SJ
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#1

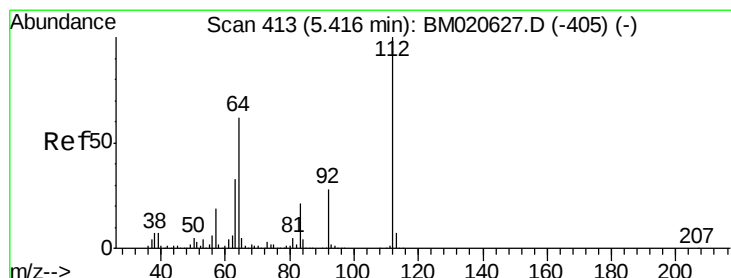
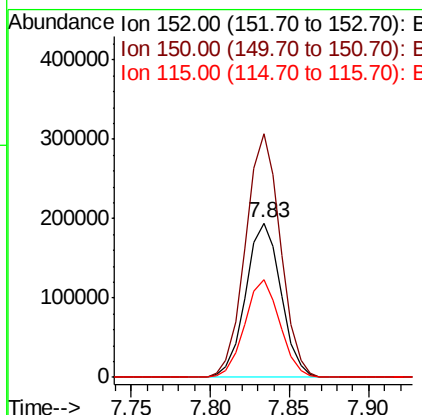
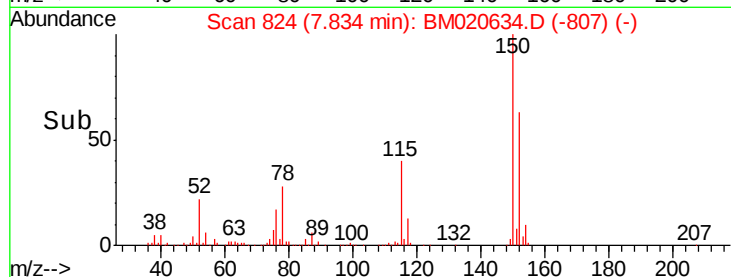
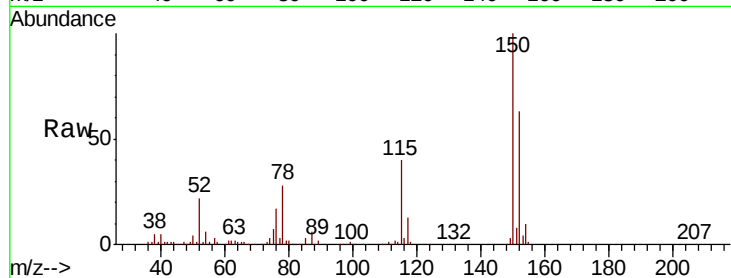
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.83 min Scan# 824
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	126.0	189.0
115	63.2	49.6	74.4

Manual Integrations
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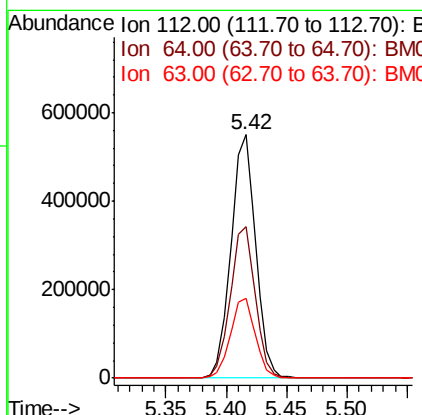
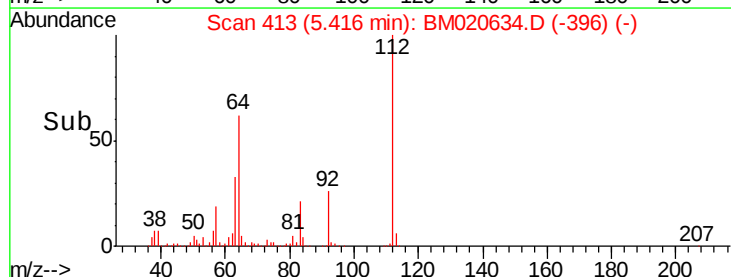
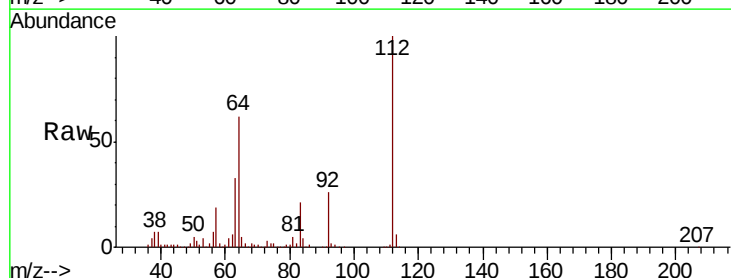
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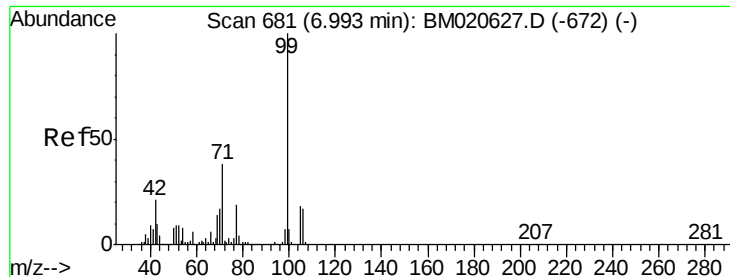


#5

2-Fluorophenol
Concen: 45.845 ng
RT: 5.42 min Scan# 413
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.1	49.7	74.5
63	32.8	26.4	39.6





#7

Phenol-d6

Concen: 43.025 ng

RT: 6.99 min Scan# 681

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

Tot Ion: 99 Resp: 1084853

Ion Ratio Lower Upper

99 100

42 19.6 16.5 24.7

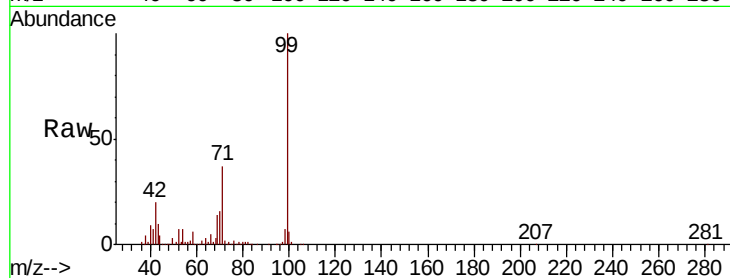
71 36.6 30.7 46.1

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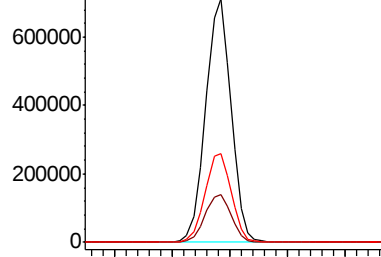
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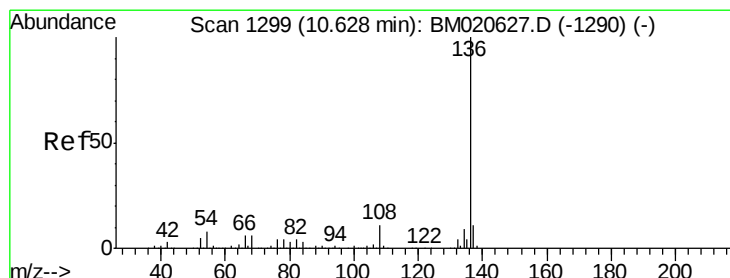
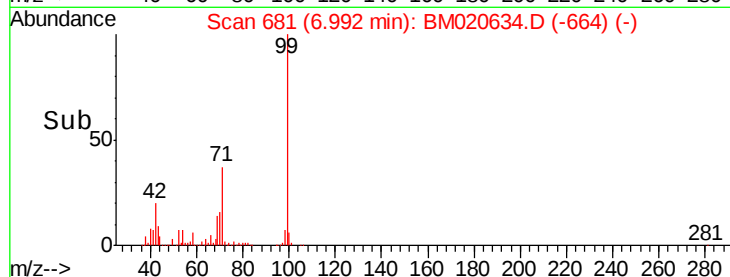
Abundance Ion 99.00 (98.70 to 99.70): BM020627.D (-672) (-)

Ion 42.00 (41.70 to 42.70): BM020627.D (-672) (-)

Ion 71.00 (70.70 to 71.70): BM020627.D (-672) (-)



Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.63 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Tgt Ion: 136 Resp: 1202199

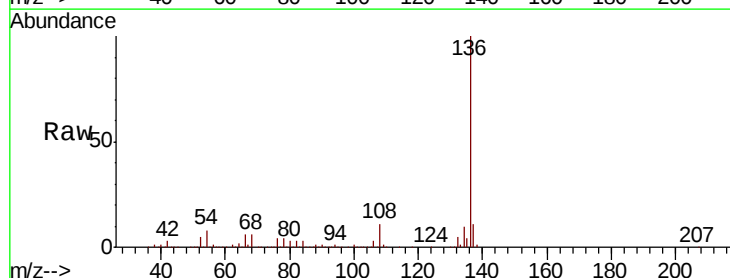
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 8.0 6.6 10.0

68 6.4 5.1 7.7

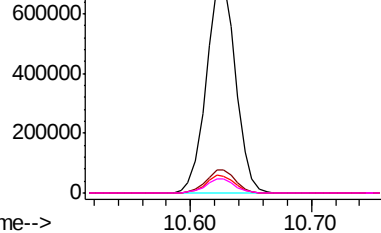


Abundance Ion 136.00 (135.70 to 136.70): BM020627.D (-1290) (-)

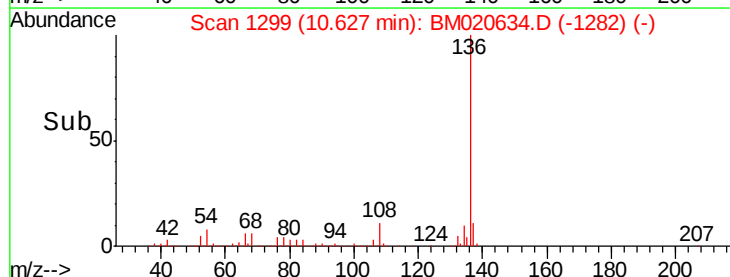
Ion 137.00 (136.70 to 137.70): BM020627.D (-1290) (-)

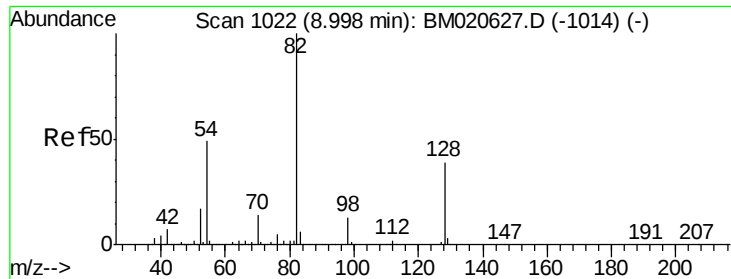
Ion 54.00 (53.70 to 54.70): BM020627.D (-1290) (-)

Ion 68.00 (67.70 to 68.70): BM020627.D (-1290) (-)



Time-->





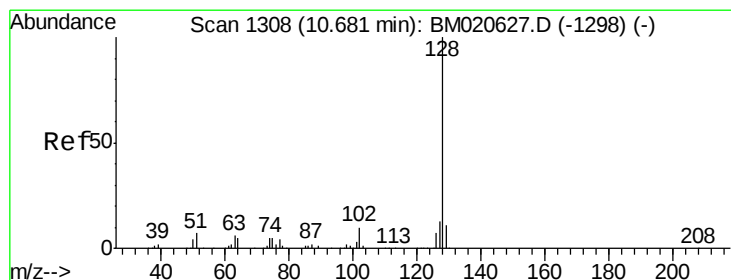
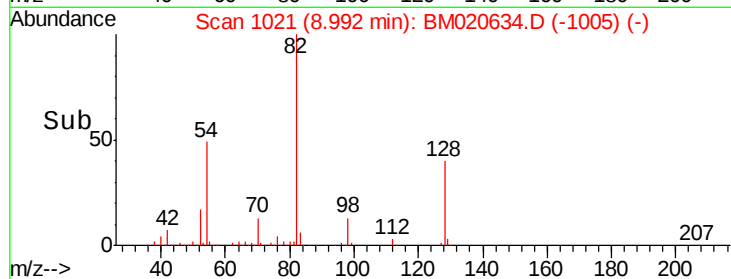
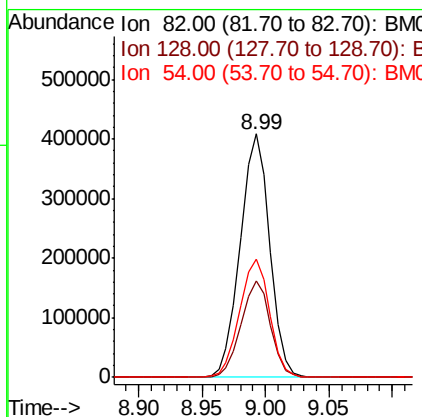
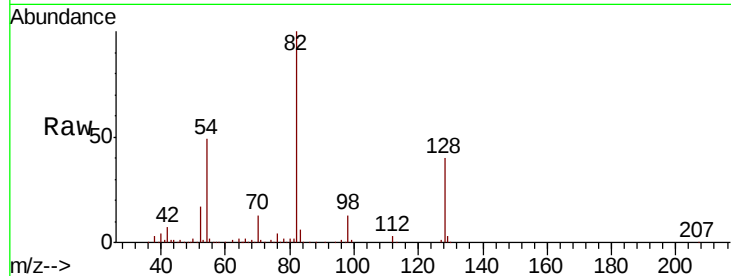
#23
Nitrobenzene-d5
Concen: 28.505 ng
RT: 8.99 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleID :
B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.8	31.5	47.3
54	48.6	39.4	59.0

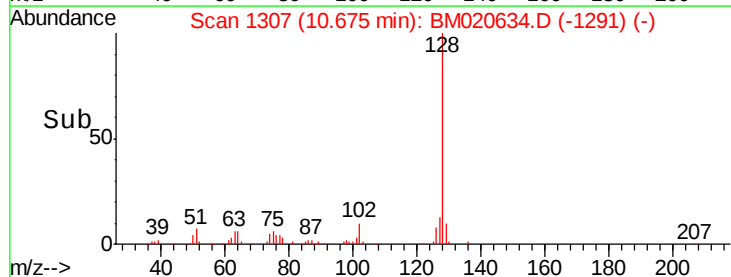
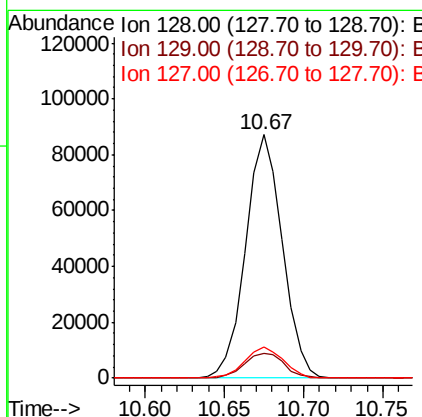
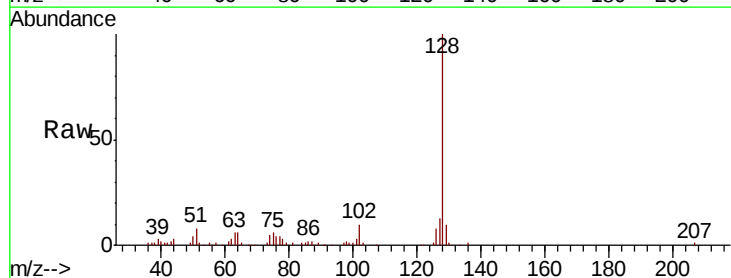
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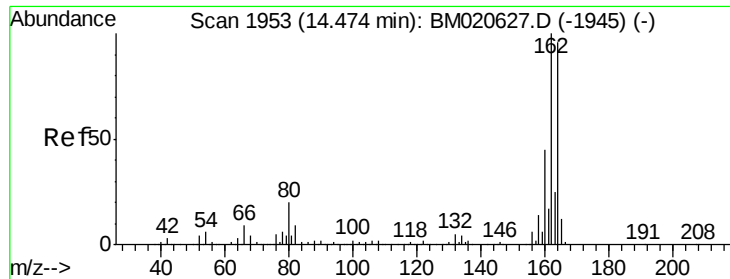
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#31
Naphthalene
Concen: 2.268 ng
RT: 10.67 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.7	13.1
127	12.6	10.3	15.5





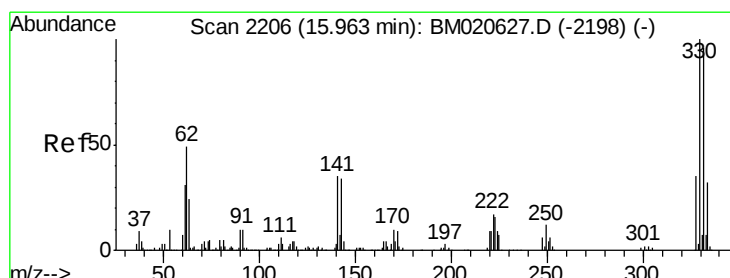
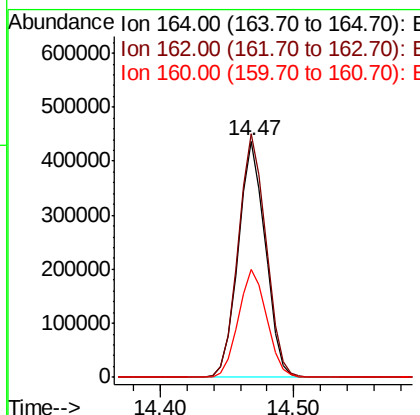
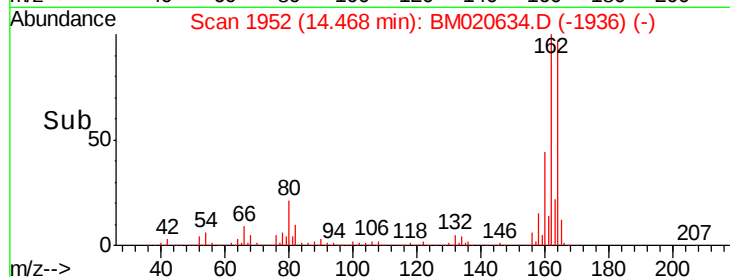
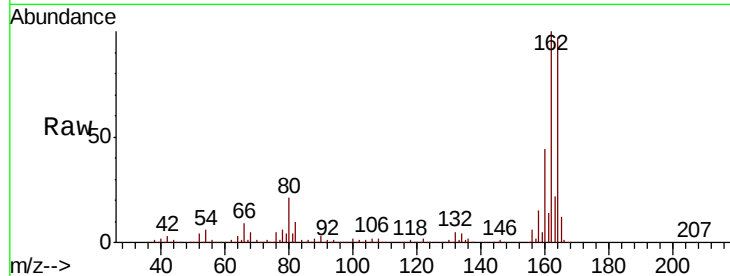
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.47 min Scan# 1952
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.2	83.2	124.8	
160	45.7	37.5	56.3	

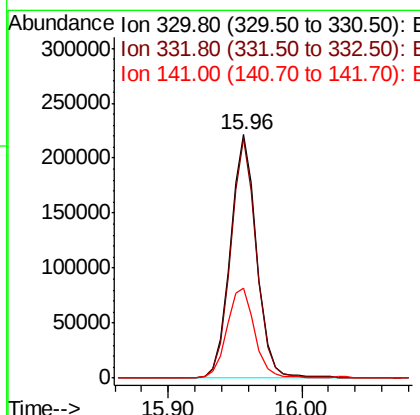
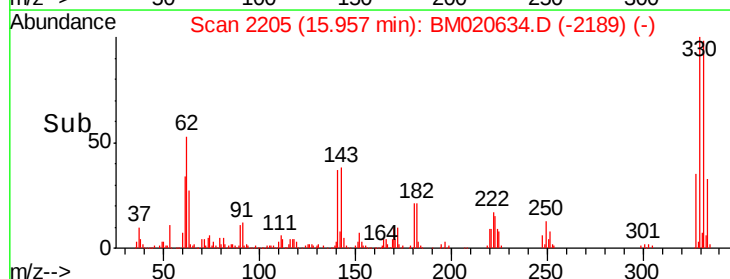
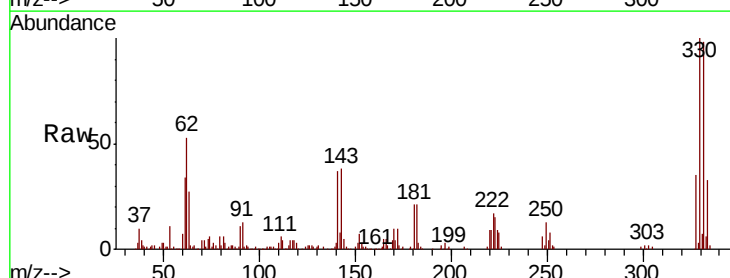
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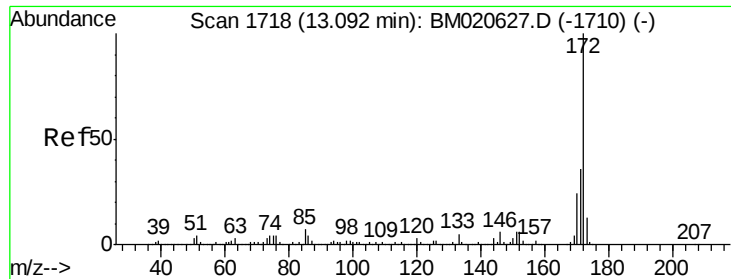
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#42
2,4,6-Tribromophenol
Concen: 39.935 ng
RT: 15.96 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.0	77.4	116.0	
141	38.6	30.4	45.6	





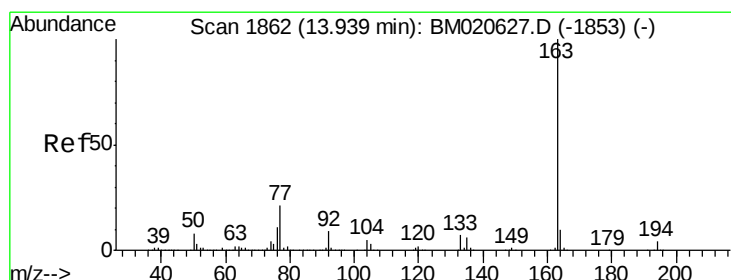
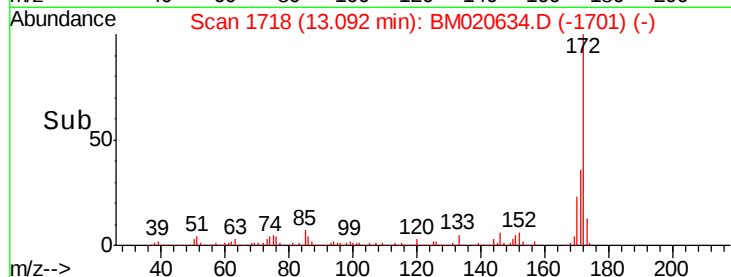
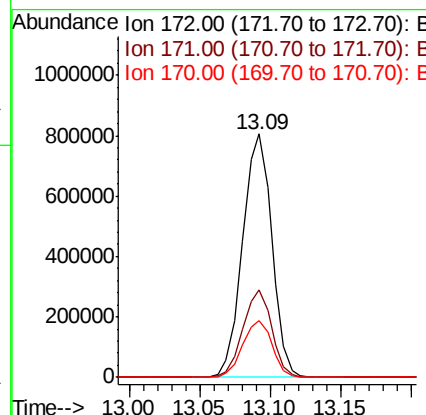
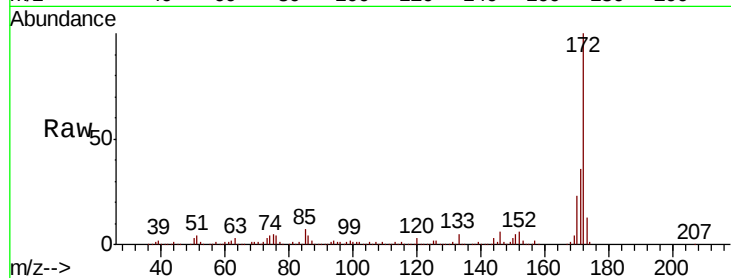
#45
2-Fluorobiphenyl
Concen: 25.294 ng
RT: 13.09 min Scan# 1718
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.3	18.9	28.3

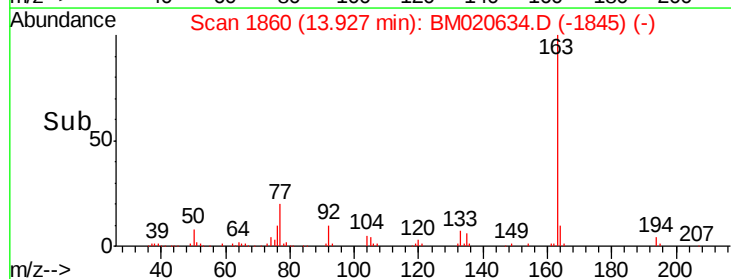
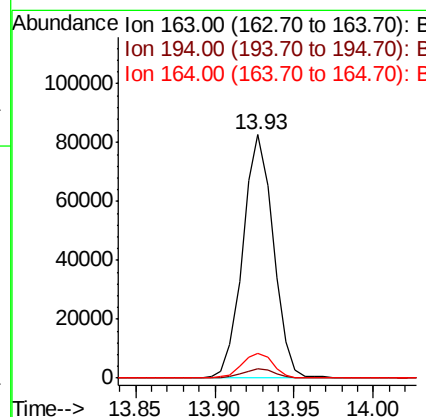
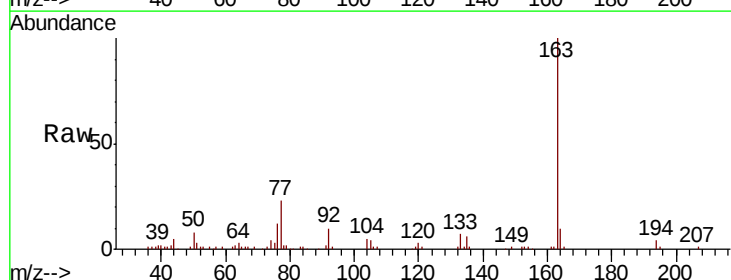
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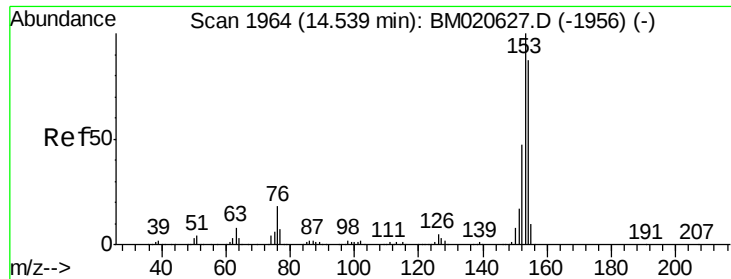
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#50
Dimethylphthalate
Concen: 2.109 ng
RT: 13.93 min Scan# 1860
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.2	4.8
164	10.0	7.9	11.9





#52

Acenaphthene

Concen: 5.605 ng

RT: 14.53 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

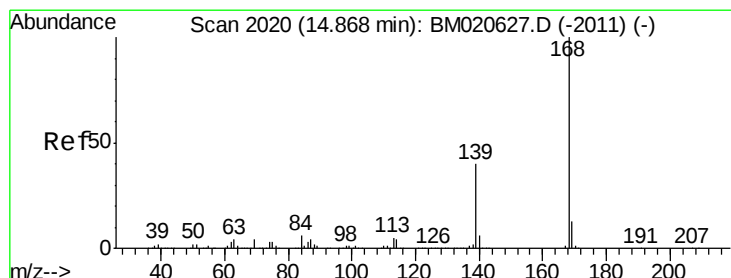
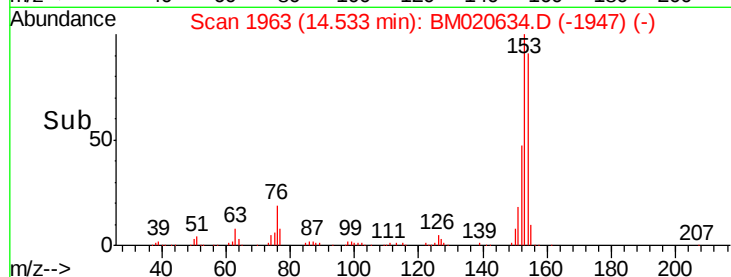
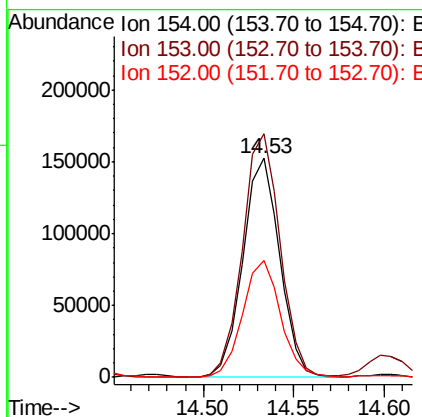
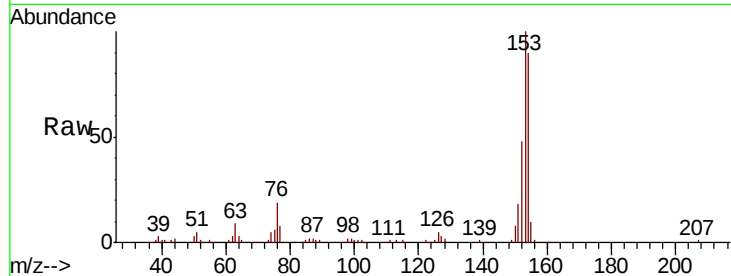
ClientSampleId :

B-6N(8.5-9.5)DL

Tot Ion:	154	Resp:	215513
Ion Ratio	Lower	Upper	
154	100		
153	111.1	92.4	138.6
152	53.6	43.4	65.0

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#55

Dibenzofuran

Concen: 3.109 ng

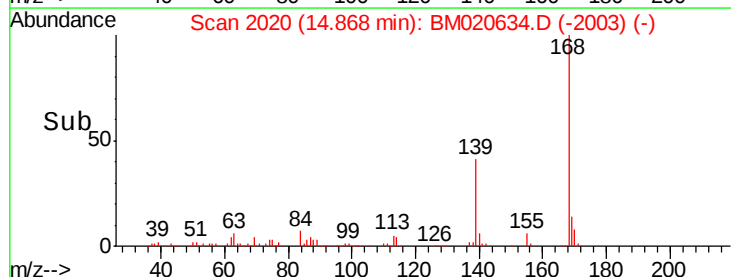
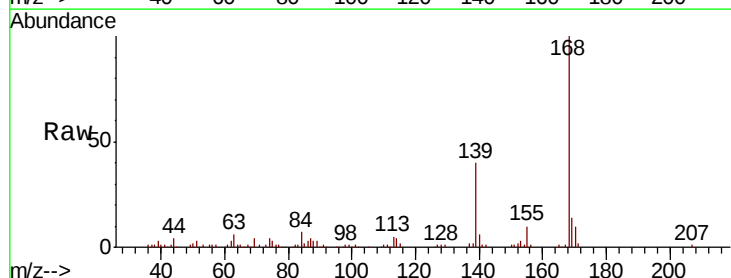
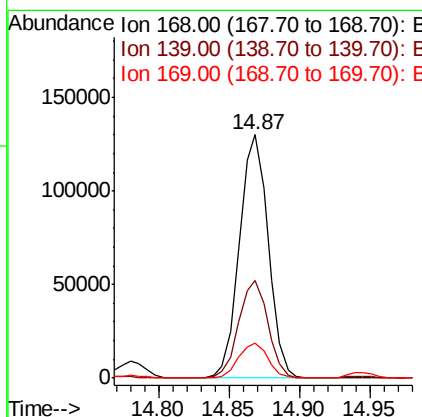
RT: 14.87 min Scan# 2020

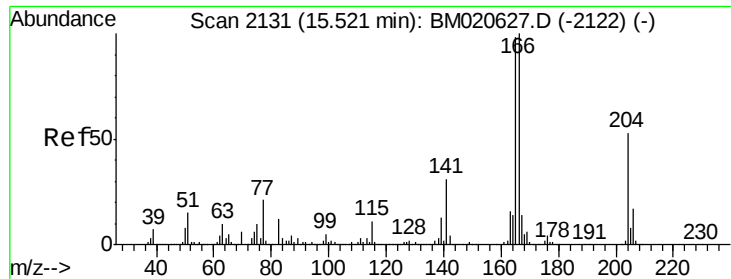
Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Tgt Ion:	168	Resp:	185687
Ion Ratio	Lower	Upper	
168	100		
139	40.3	31.9	47.9
169	14.2	10.7	16.1





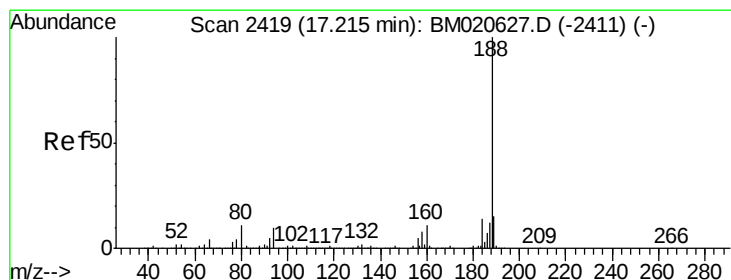
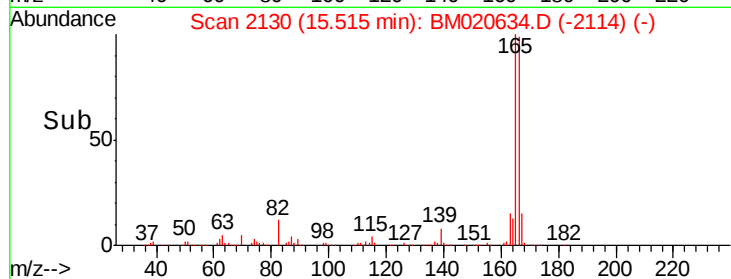
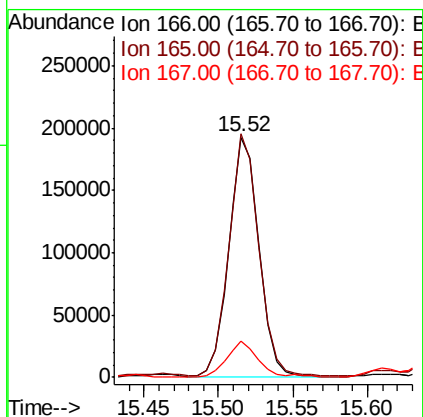
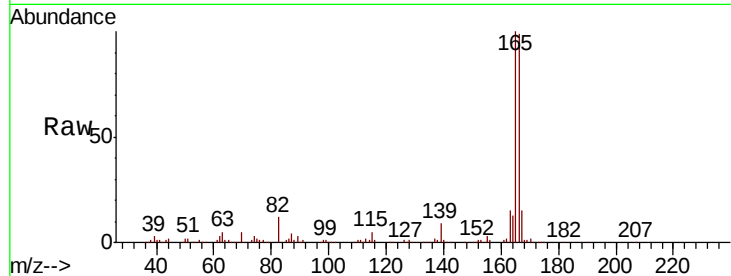
#58
 Fluorene
 Concen: 5.525 ng
 RT: 15.52 min Scan# 2130
 Delta R.T. -0.01 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Instrument :
 BNA_M
 ClientSampleId :
 B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.3	78.6	117.8
167	15.0	11.0	16.4

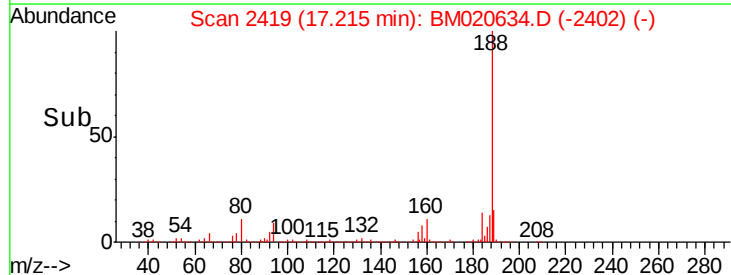
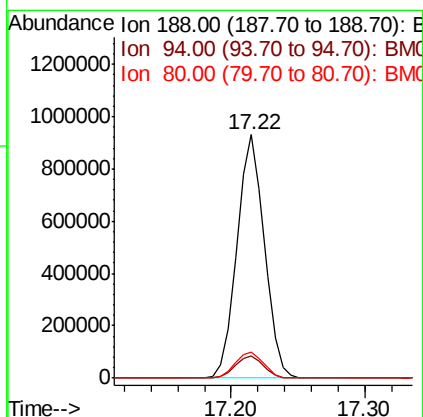
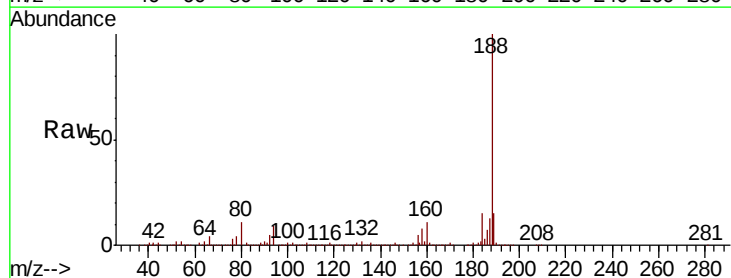
Manual Integrations
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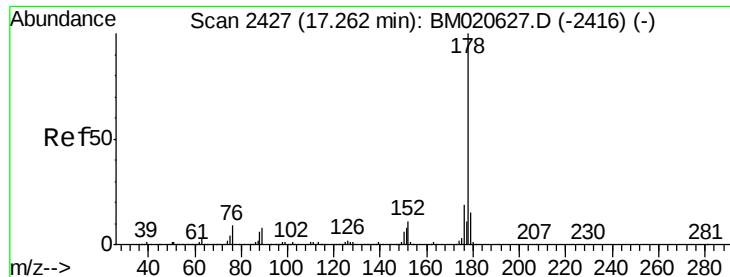
mohammad
 6/3/2019 8:48:50 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.22 min Scan# 2419
 Delta R.T. -0.00 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.8	11.8
80	10.9	9.0	13.6





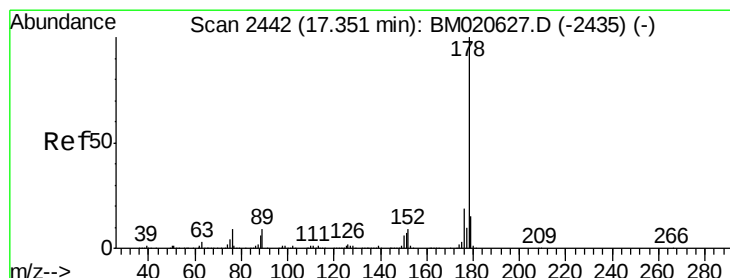
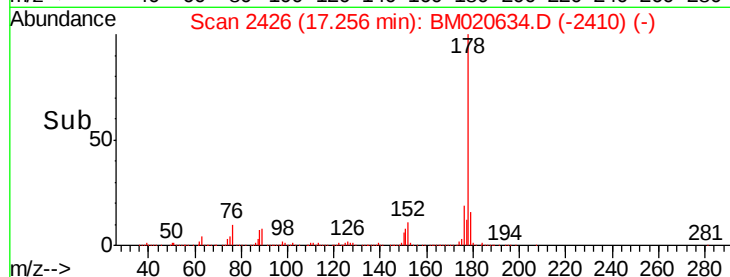
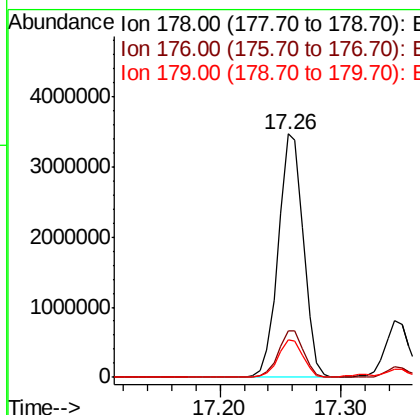
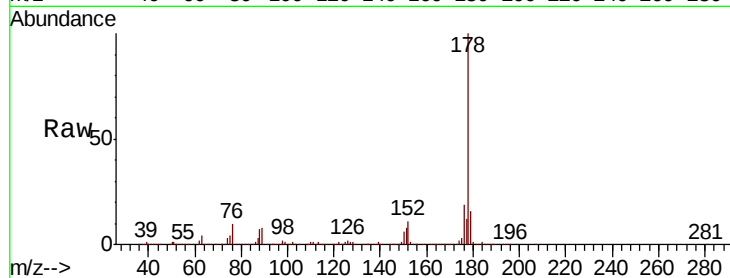
#71
Phenanthrene
Concen: 66.299 ng
RT: 17.26 min Scan# 2426
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.7	12.2	18.4

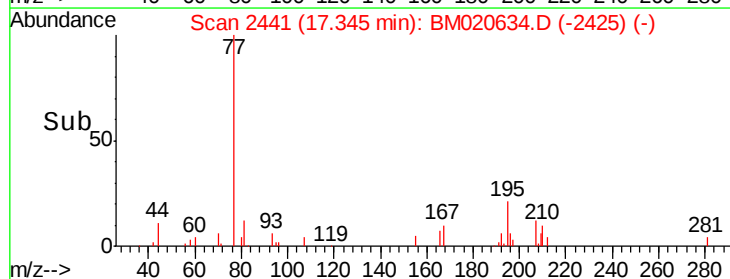
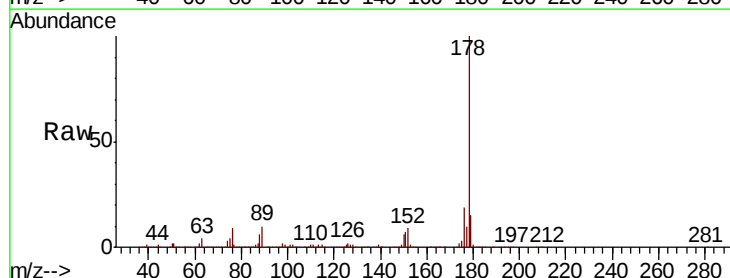
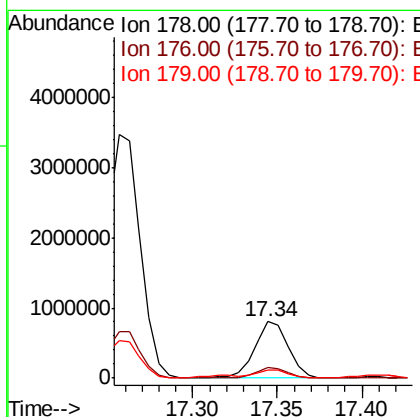
Manual Integrations
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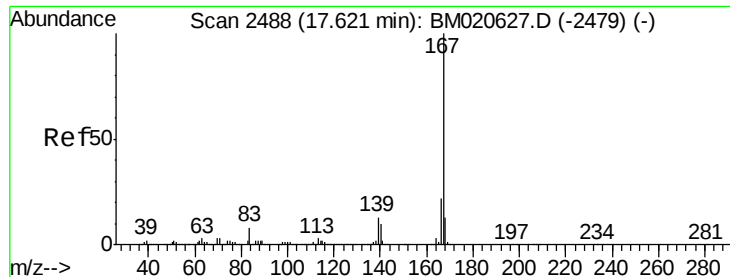
mohammad
6/3/2019 8:48:50 AM



#72
Anthracene
Concen: 14.581 ng
RT: 17.34 min Scan# 2441
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.1	22.7
179	15.4	12.3	18.5





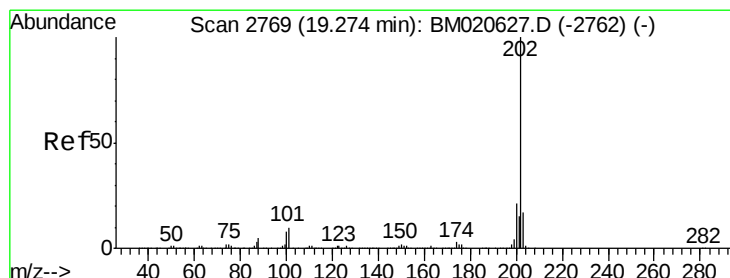
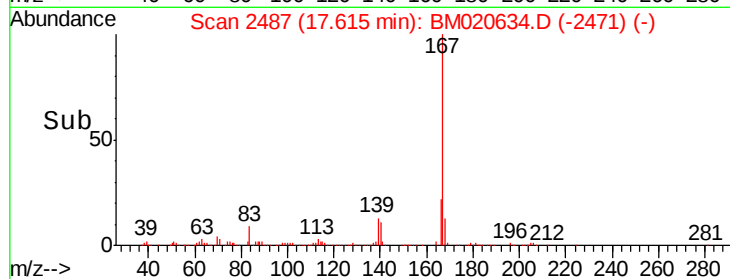
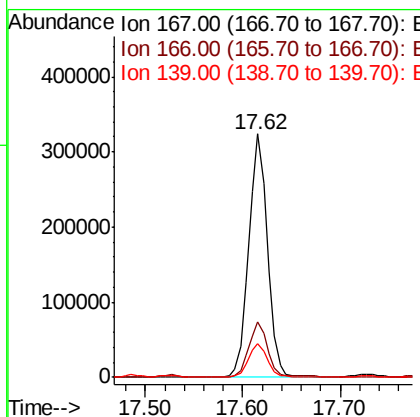
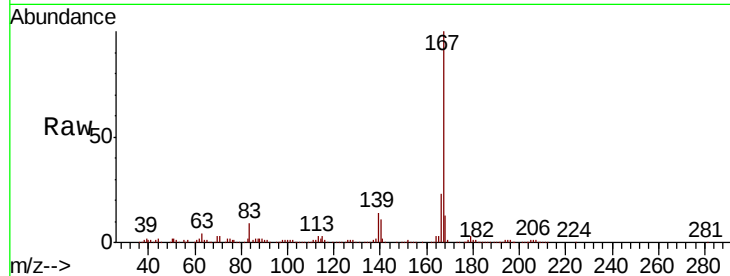
#73
 Carbazole
 Concen: 6.409 ng
 RT: 17.62 min Scan# 2487
 Delta R.T. -0.01 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Instrument :
 BNA_M
 ClientSampleId :
 B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.5	26.3
139	13.7	10.6	15.8

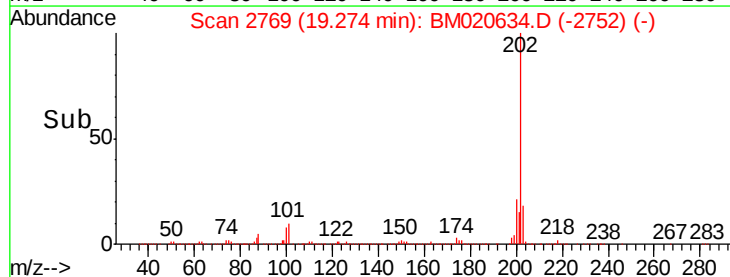
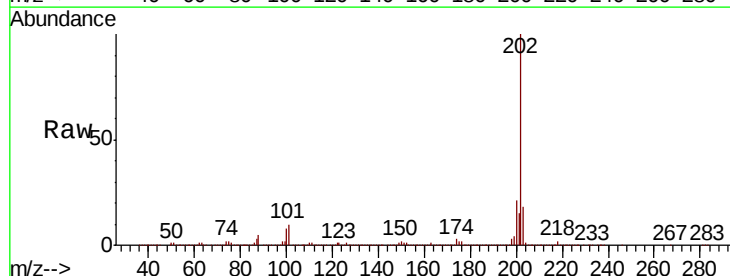
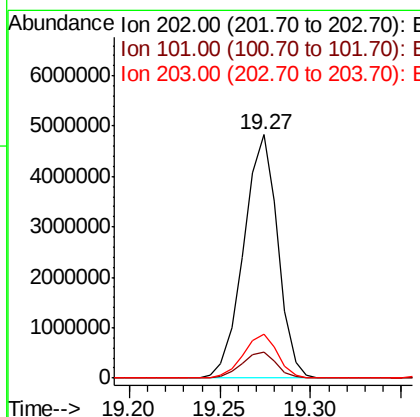
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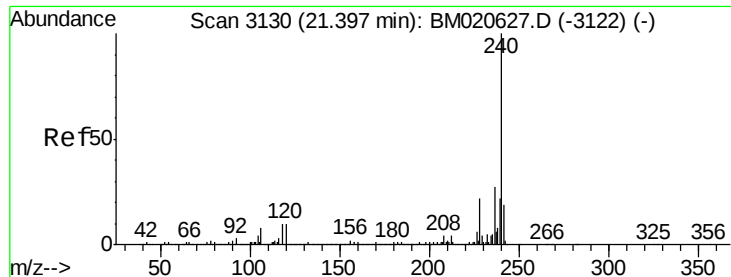
mohammad
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#75
 Fluoranthene
 Concen: 75.619 ng
 RT: 19.27 min Scan# 2769
 Delta R.T. -0.00 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	30.4
203	17.8	0.0	37.3





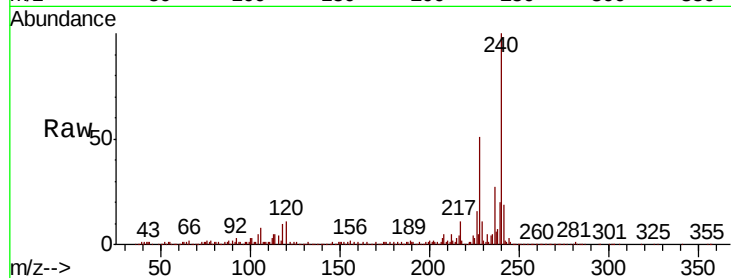
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.39 min Scan# 3129
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.2	12.2
236	26.6	21.2	31.8

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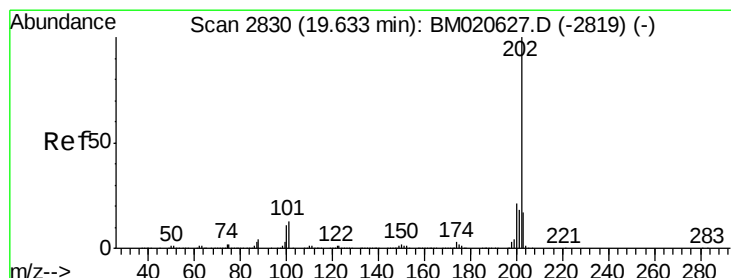
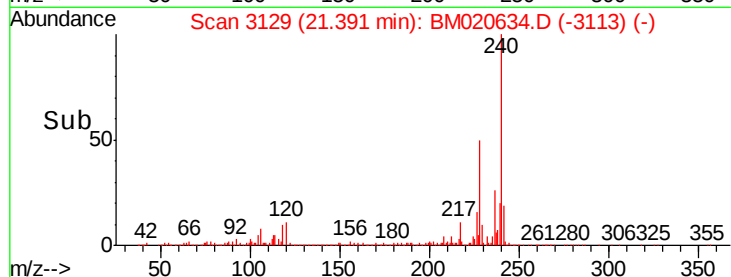
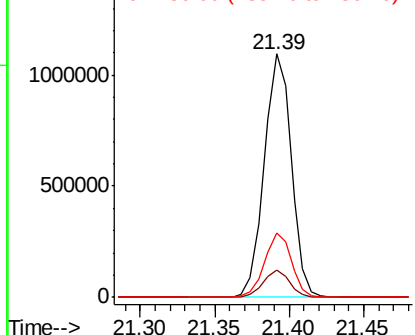


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 60.376 ng
RT: 19.64 min Scan# 2831
Delta R.T. 0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

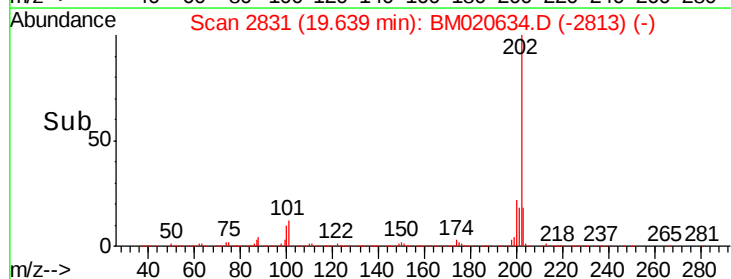
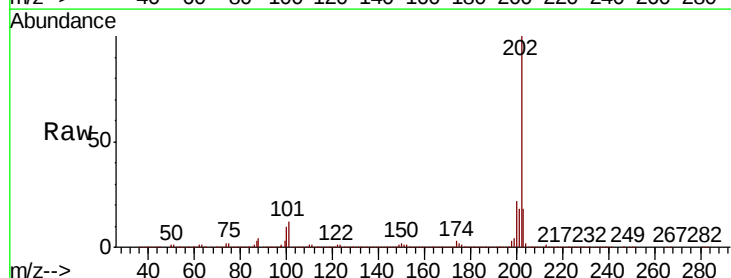
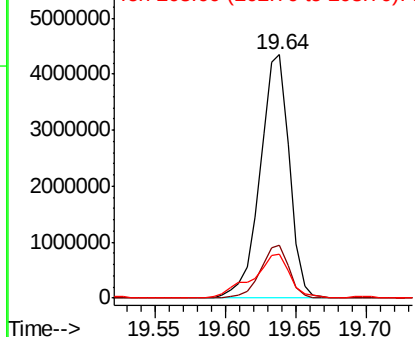
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	16.8	25.2
203	18.0	13.9	20.9

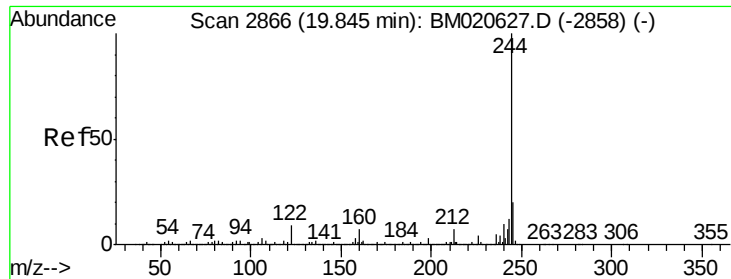
Abundance

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





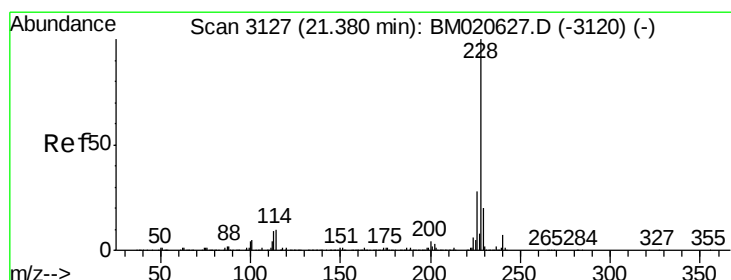
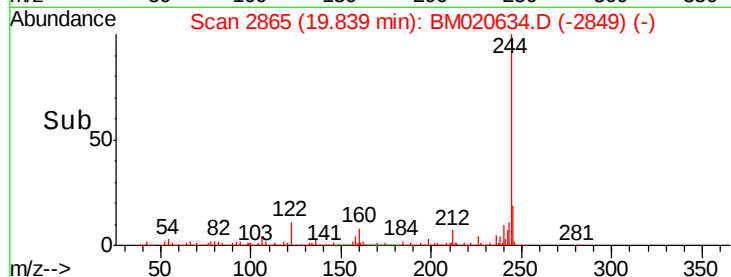
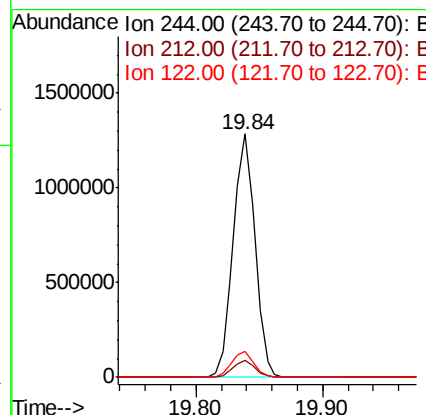
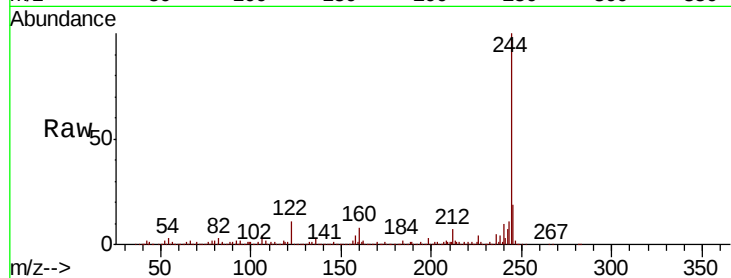
#79
 Terphenyl-d14
 Concen: 18.575 ng
 RT: 19.84 min Scan# 2865
 Delta R.T. -0.01 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Instrument :
 BNA_M
 ClientSampleId :
 B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.7	8.5
122	10.7	7.2	10.8

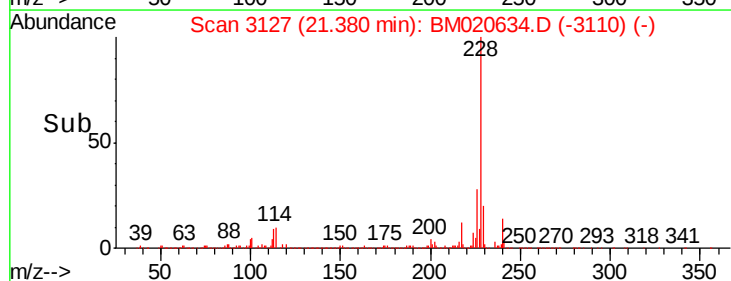
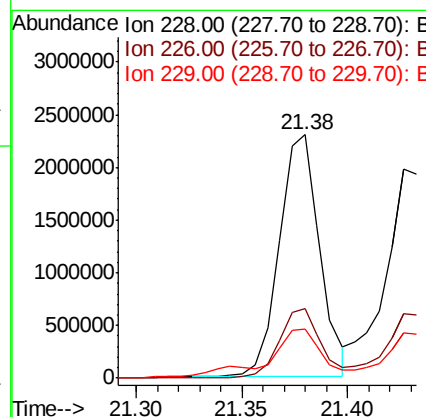
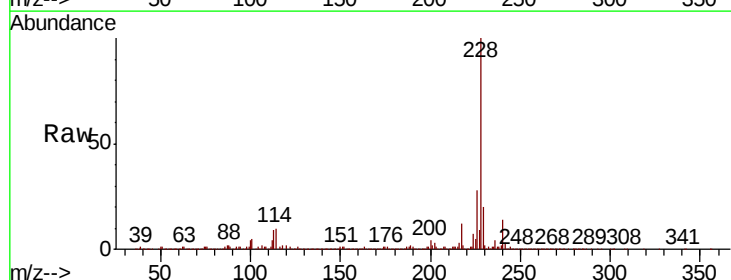
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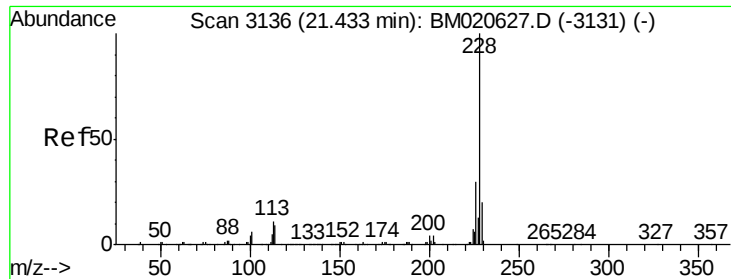
mohammad
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#81
 Benzo(a)anthracene
 Concen: 32.252 ng
 RT: 21.38 min Scan# 3127
 Delta R.T. -0.00 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.3	33.5
229	20.3	15.9	23.9





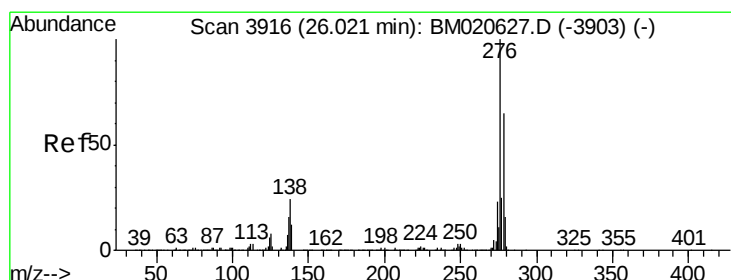
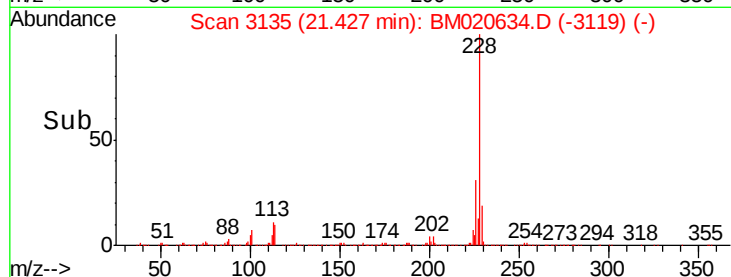
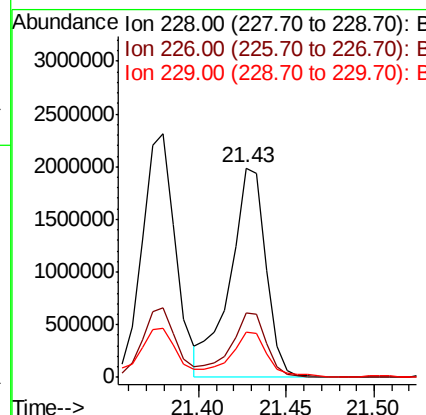
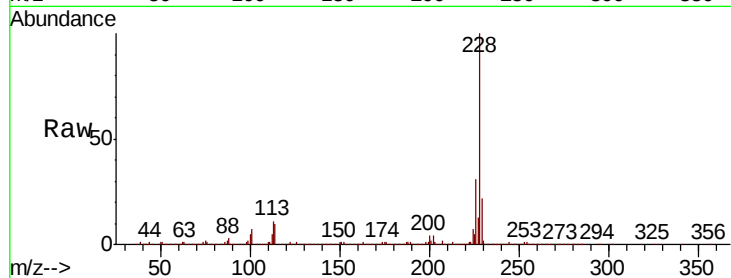
#83
Chrysene
Concen: 31.204 ng m
RT: 21.43 min Scan# 3135
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion:228 Resp: 2824127
Ion Ratio Lower Upper
228 100
226 30.6 24.2 36.2
229 21.5 15.8 23.6

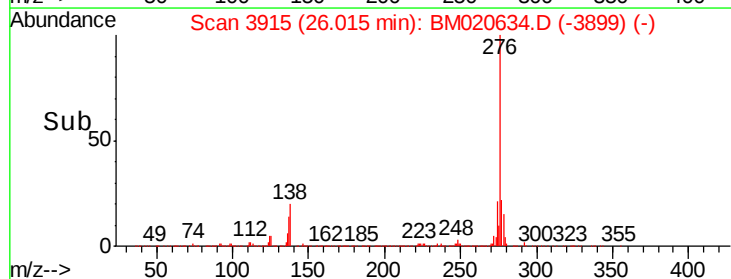
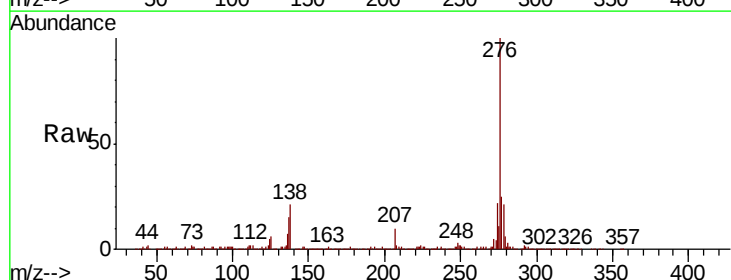
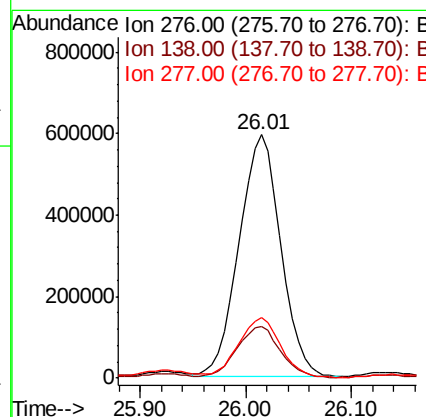
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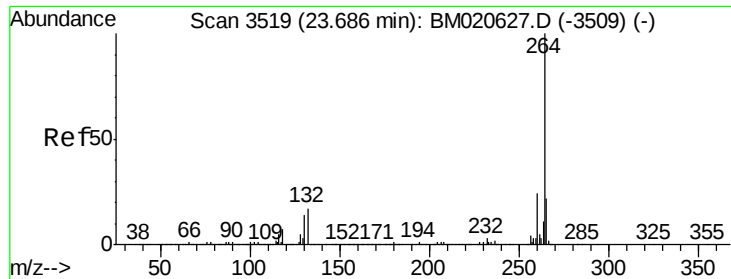
mohammad
6/3/2019 8:48:50 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 17.441 ng
RT: 26.01 min Scan# 3915
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion:276 Resp: 1614925
Ion Ratio Lower Upper
276 100
138 21.8 19.8 29.8
277 24.9 20.2 30.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.69 min Scan# 3519

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

Tot Ion:264 Resp: 1585870

Ion Ratio Lower Upper

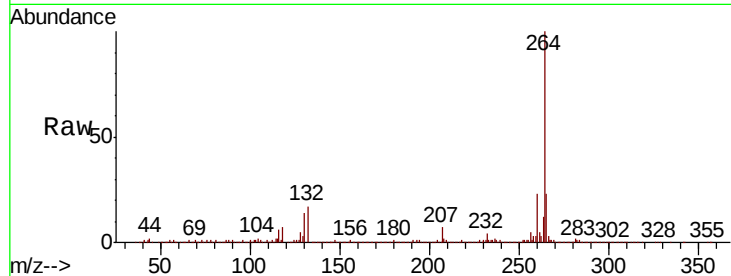
264 100

260 23.5 19.2 28.8

265 22.5 17.6 26.4

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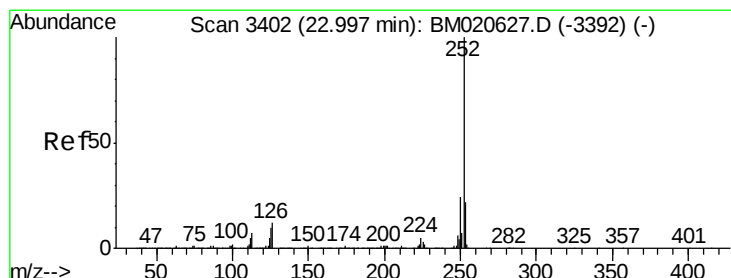
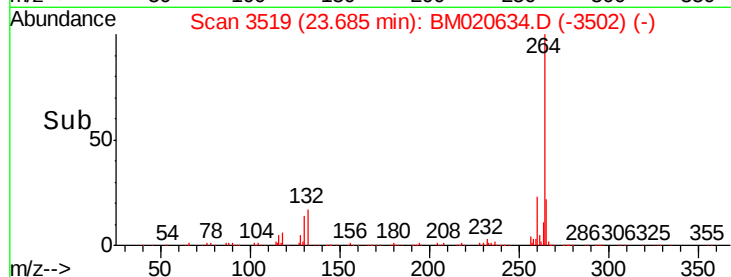
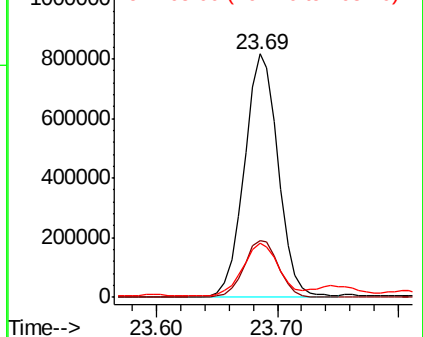


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 30.879 ng m

RT: 23.00 min Scan# 3402

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

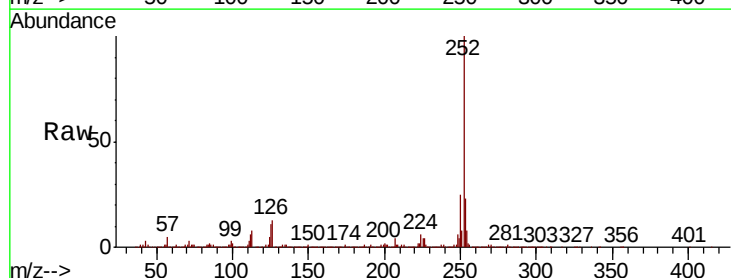
Tgt Ion:252 Resp: 3236616

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.2

125 10.7 7.8 11.8

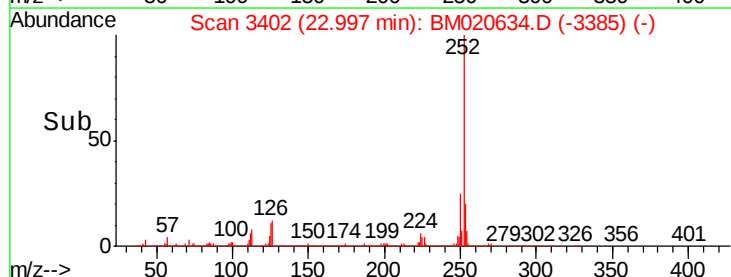
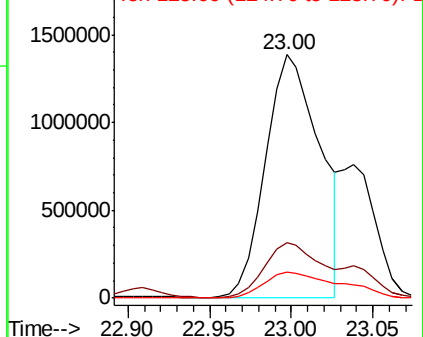


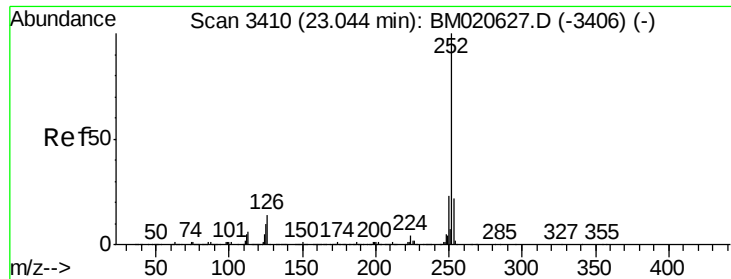
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 10.906 ng

RT: 23.04 min Scan# 3409

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

Tot Ion:252 Resp: 1117150

Ion Ratio Lower Upper

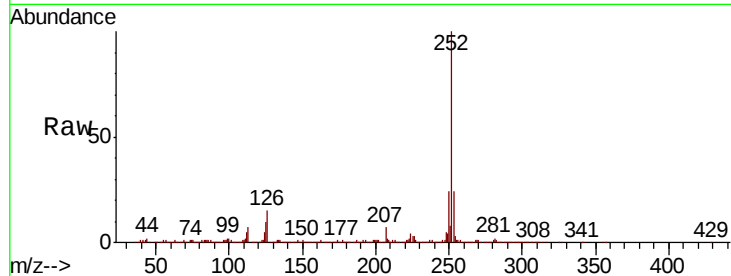
252 100

253 23.9 17.4 26.2

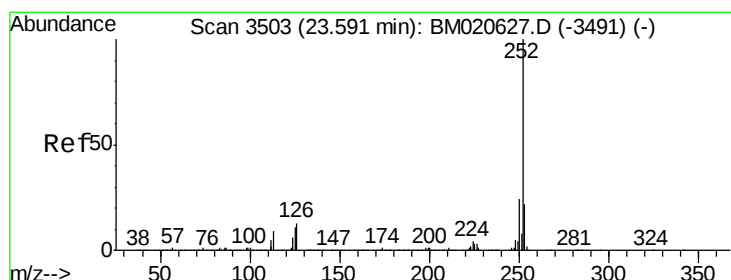
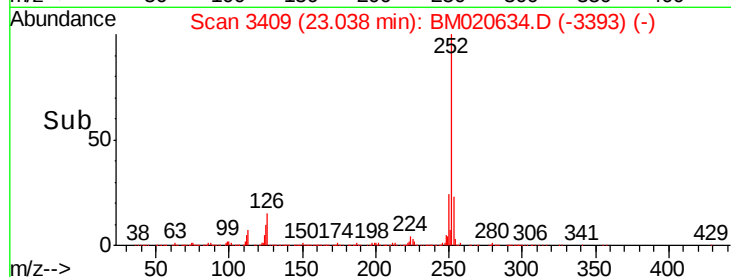
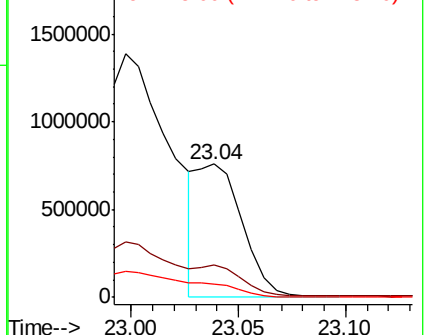
125 10.4 7.8 11.8

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 27.207 ng

RT: 23.59 min Scan# 3503

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Tgt Ion:252 Resp: 2586673

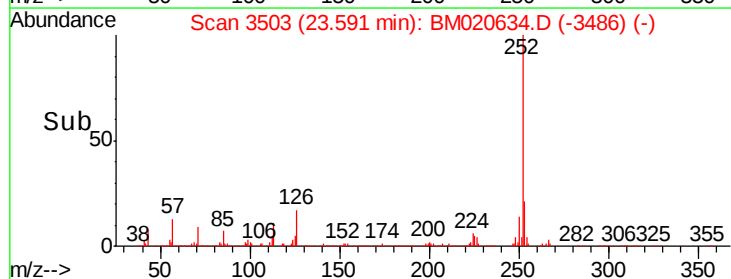
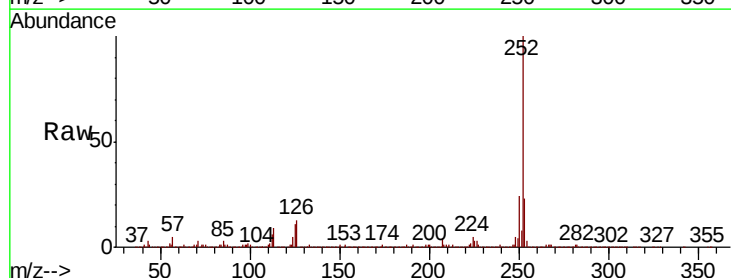
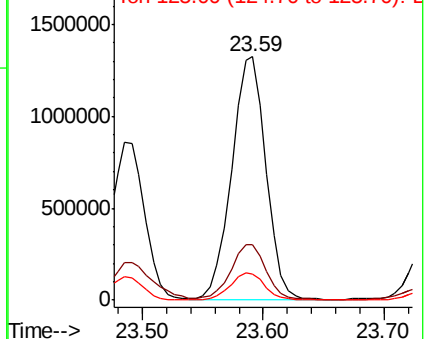
Ion Ratio Lower Upper

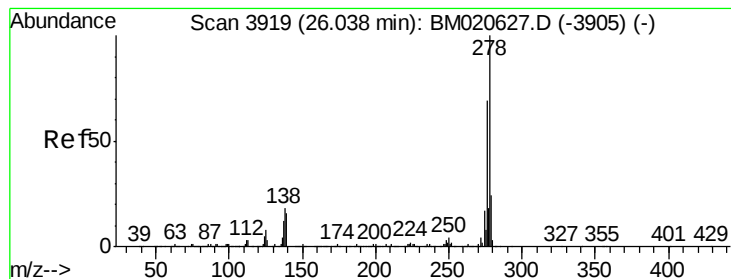
252 100

253 22.7 17.5 26.3

125 10.7 8.6 13.0

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 4.504 ng

RT: 26.02 min Scan# 3916

Delta R.T. -0.02 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

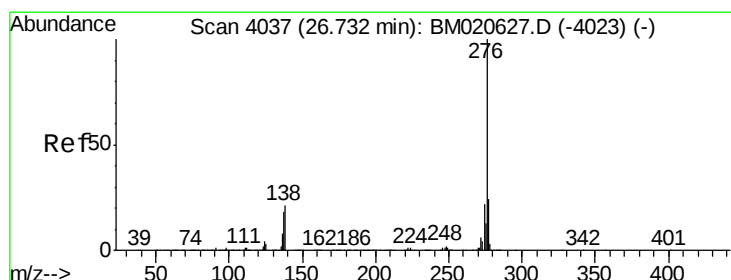
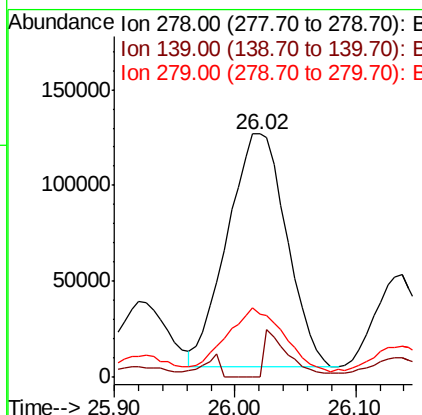
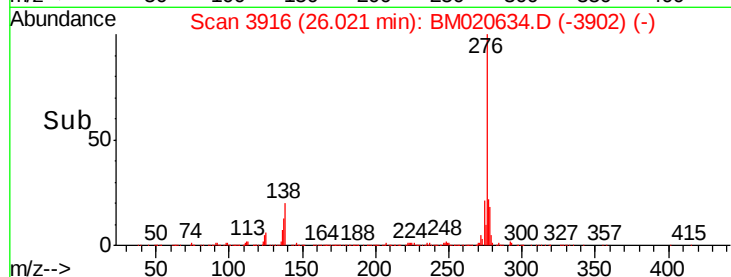
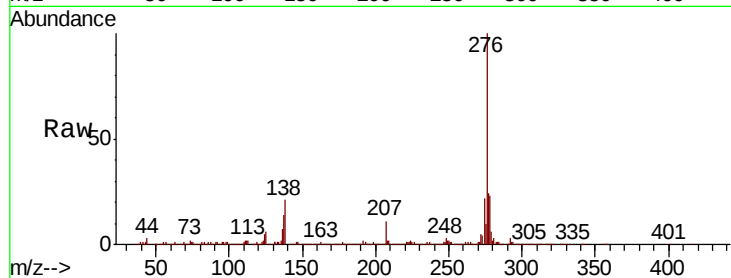
ClientSampleId :

B-6N(8.5-9.5)DL

Tot Ion:	278	Resp:	415473
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.6	18.8#
279	26.2	19.0	28.6

Manual Integrations
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#92

Benzo(g,h,i)perylene

Concen: 18.614 ng

RT: 26.73 min Scan# 4037

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Tgt Ion:	276	Resp:	1594766
Ion Ratio	Lower	Upper	
276	100		
277	23.8	19.2	28.8
138	21.1	17.0	25.4

