

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061120\
 Data File : BM026352.D
 Acq On : 11 Jun 2020 12:41
 Operator : JU/CG
 Sample : L2970-02 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 600472986

Manual Integrations
 APPROVED

mohammad
 6/15/2020 8:43:17 AM

Quant Time: Jun 11 13:23:10 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM060520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 09 14:46:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	146660	20.00	ng	-0.01
21) Naphthalene-d8	10.17	136	600633	20.00	ng	-0.01
39) Acenaphthene-d10	14.07	164	376366	20.00	ng	-0.01
64) Phenanthrene-d10	16.82	188	839700	20.00	ng	-0.01
76) Chrysene-d12	21.03	240	881497	20.00	ng	-0.01
86) Perylene-d12	23.14	264	925722	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	145255	17.51	ng	-0.01
7) Phenol-d6	6.62	99	223085	18.57	ng	-0.01
23) Nitrobenzene-d5	8.56	82	173585	14.19	ng	-0.01
42) 2,4,6-Tribromophenol	15.57	330	90159	19.78	ng	-0.02
45) 2-Fluorobiphenyl	12.68	172	376017	15.17	ng	-0.01
79) Terphenyl-d14	19.48	244	663714	14.62	ng	-0.01
Target Compounds						
37) 2-Methylnaphthalene	11.85	142	107834	5.000	ng	99
38) 1-Methylnaphthalene	12.07	142	192547	9.424	ng	97
52) Acenaphthene	14.13	154	443680	21.559	ng	98
58) Fluorene	15.13	166	340781	12.653	ng	98
71) Phenanthrene	16.87	178	1463947	33.479	ng	99
72) Anthracene	16.96	178	662594	15.183	ng	99
75) Fluoranthene	18.90	202	3474431	69.304	ng	100
78) Pyrene	19.26	202	4693995	80.593	ng	99
81) Benzo(a)anthracene	21.02	228	1625874	30.728	ng	98
83) Chrysene	21.07	228	1608052	31.892	ng	98
87) Indeno(1,2,3-cd)pyrene	25.19	276	689371	12.873	ng	95
88) Benzo(b)fluoranthene	22.52	252	1377675m	24.739	ng	
89) Benzo(k)fluoranthene	22.56	252	402998m	7.449	ng	
90) Benzo(a)pyrene	23.05	252	1277909	25.838	ng	98
91) Dibenzo(a,h)anthracene	25.19	278	186215	4.165	ng	# 79
92) Benzo(g,h,i)perylene	25.81	276	740702	17.411	ng	99

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

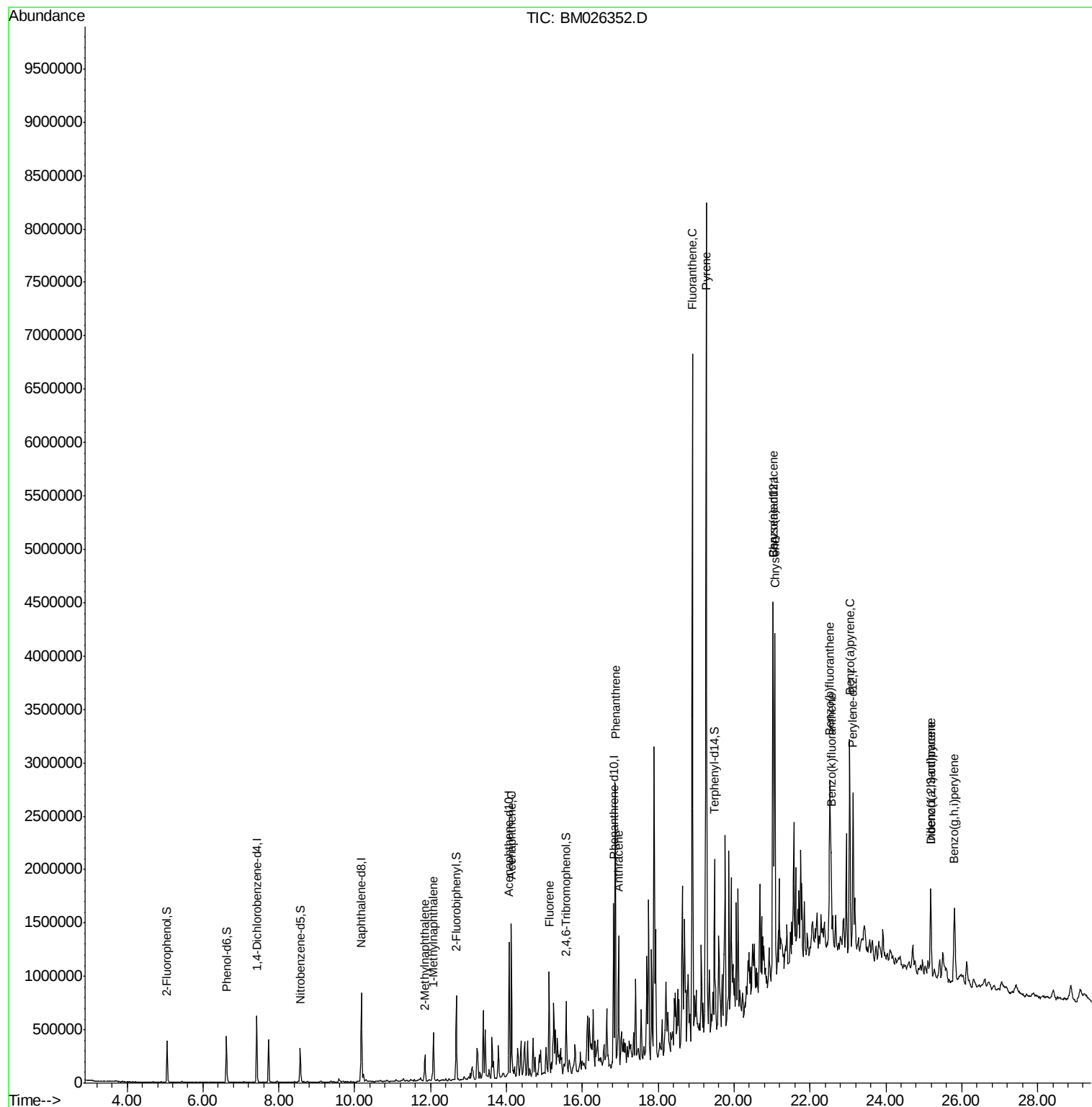
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061120\
Data File : BM026352.D
Acq On : 11 Jun 2020 12:41
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ALS Vial : 5 Sample Multiplier: 1

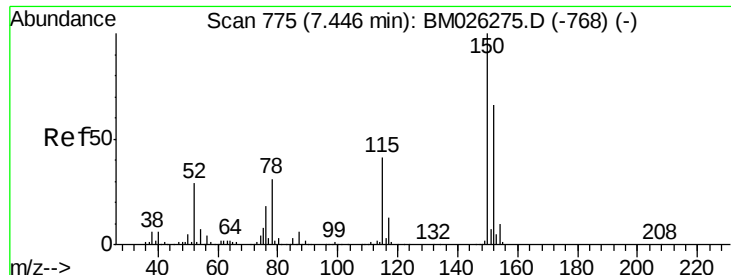
Instrument :
BNA_M
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM060520.M
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#1

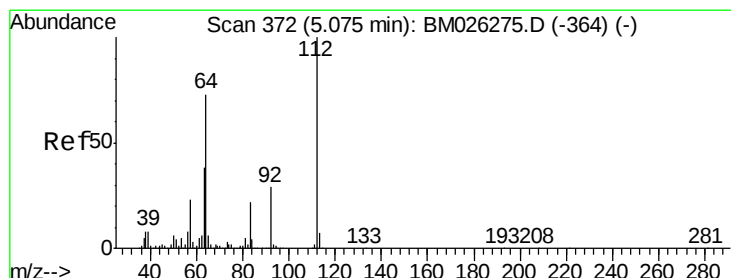
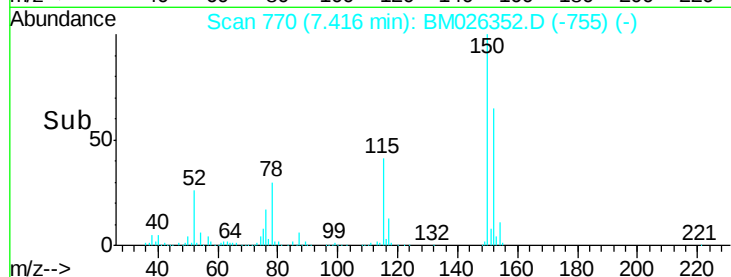
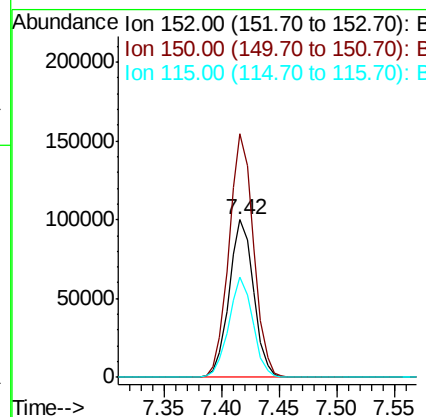
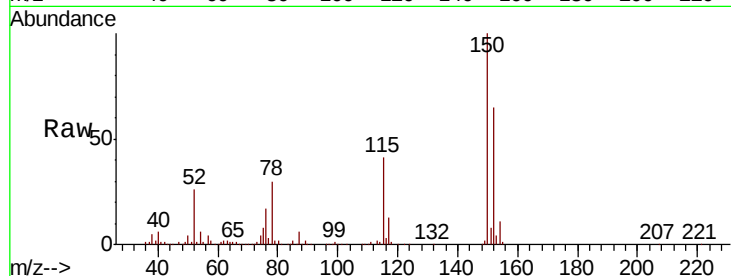
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.42 min Scan# 770
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Instrument :
BNA_M
ClientSampleId :
600472986

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	122.1	183.1
115	63.9	49.7	74.5

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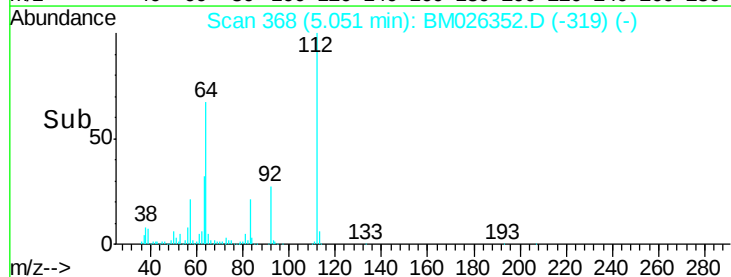
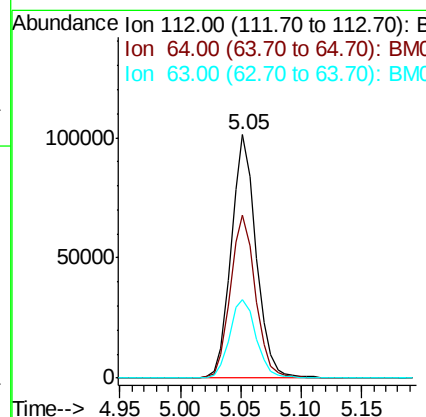
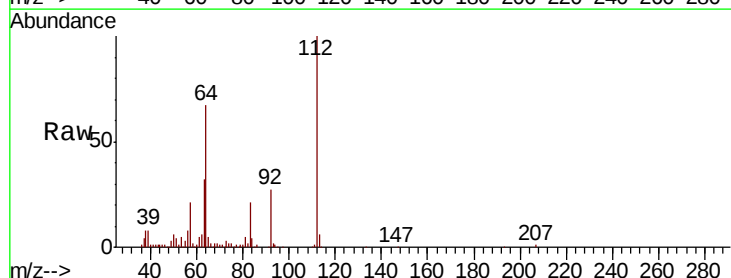
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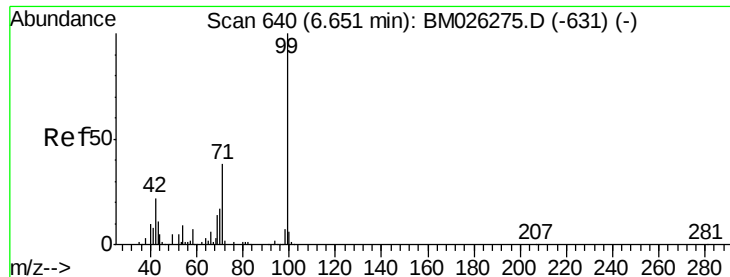


#5

2-Fluorophenol
Concen: 17.511 ng
RT: 5.05 min Scan# 368
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.1	58.1	87.1
63	32.4	30.6	45.8





#7

Phenol-d6

Concen: 18.572 ng

RT: 6.62 min Scan# 635

Delta R.T. -0.01 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Instrument :

BNA_M

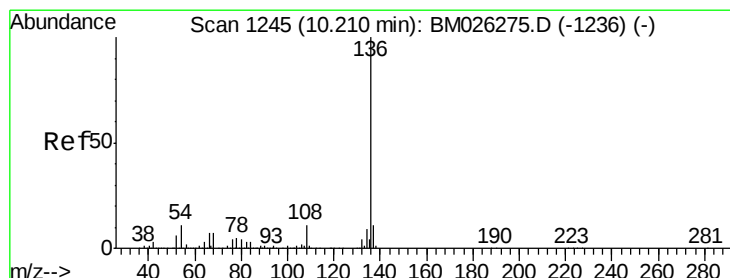
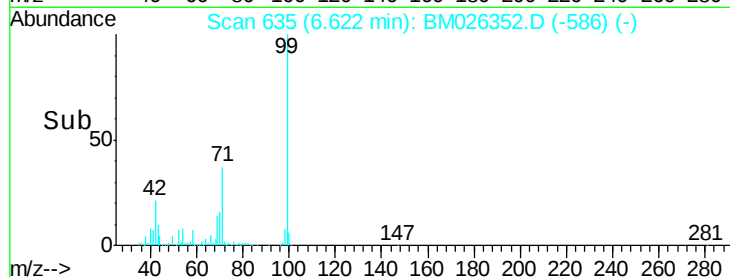
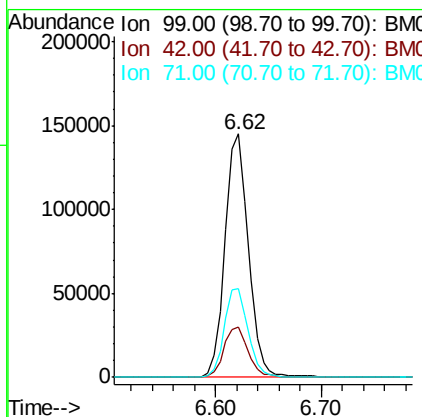
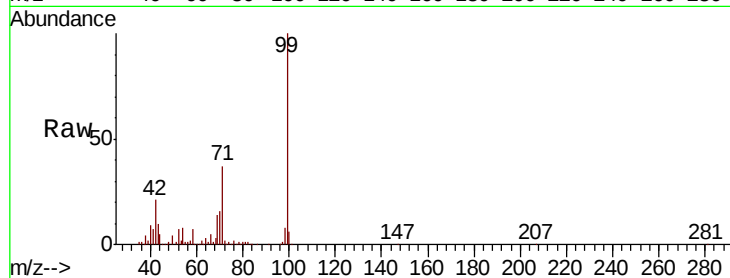
ClientSampleId :

600472986

Tot Ion:	99	Resp:	223085
Ion Ratio	Lower	Upper	
99	100		
42	20.7	18.0	27.0
71	36.7	30.6	45.8

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#21

Naphthalene-d8

Concen: 20.000 ng

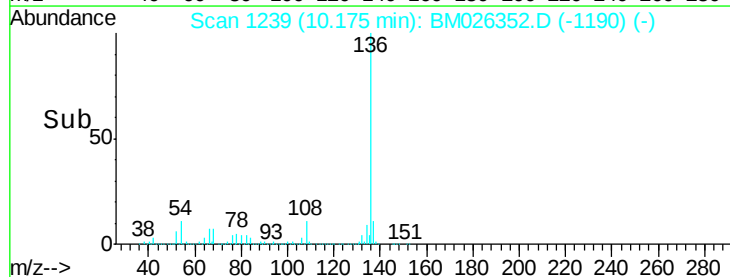
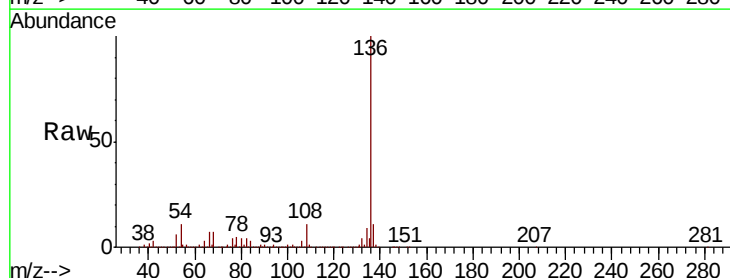
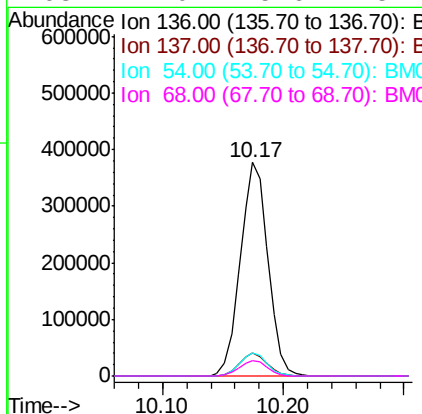
RT: 10.17 min Scan# 1239

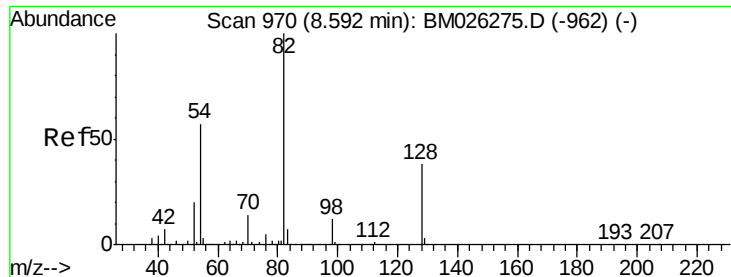
Delta R.T. -0.01 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Tgt Ion:	136	Resp:	600633
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.6	13.0
54	10.6	9.0	13.4
68	7.0	5.6	8.4





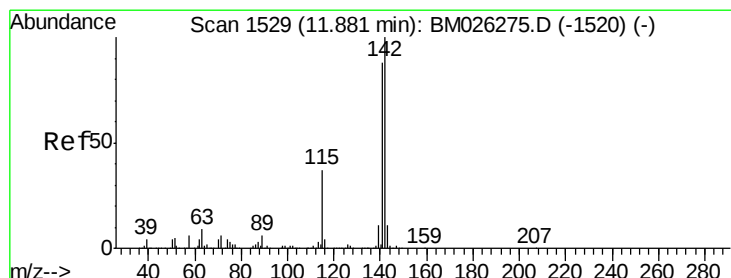
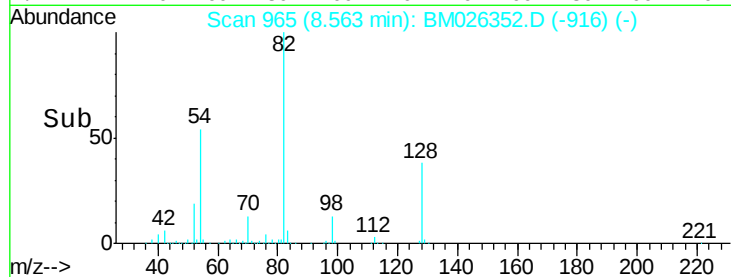
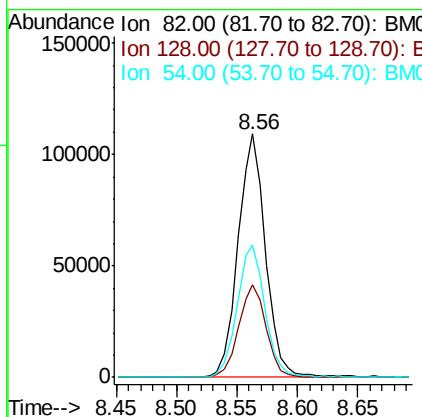
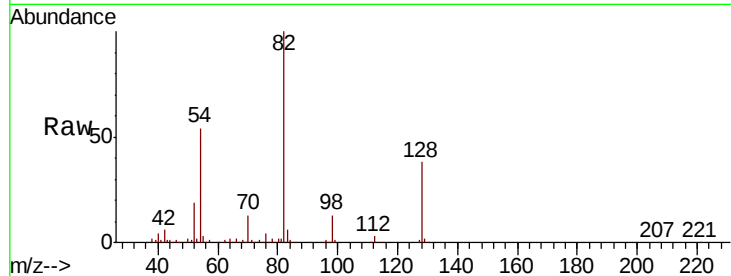
#23
Nitrobenzene-d5
Concen: 14.190 ng
RT: 8.56 min Scan# 965
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Instrument :
BNA_M
ClientSampleId :
600472986

Tot Ion	82	Resp	173585
Ion Ratio	Lower	Upper	
82	100		
128	38.3	30.3	45.5
54	54.2	45.4	68.2

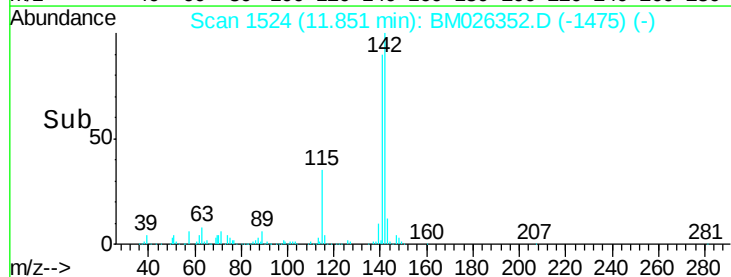
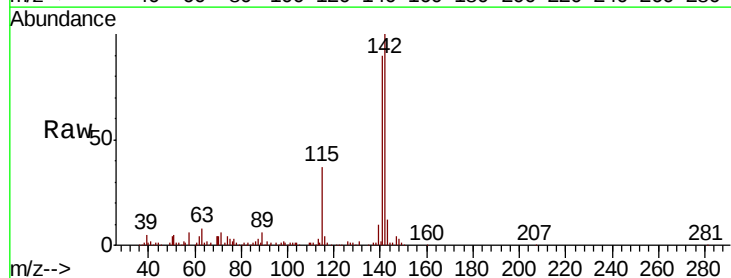
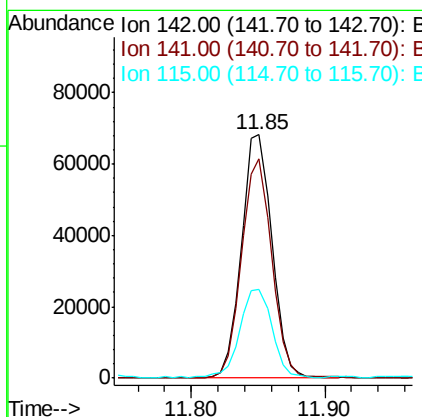
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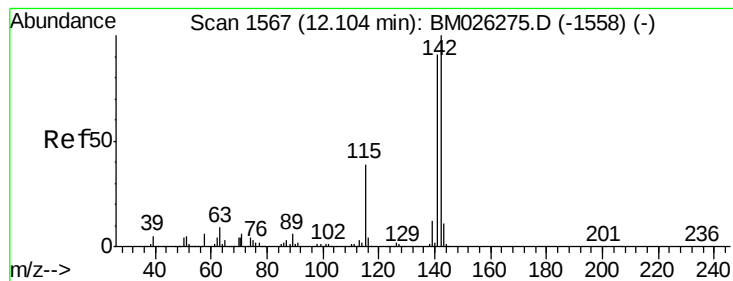
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#37
2-Methylnaphthalene
Concen: 5.000 ng
RT: 11.85 min Scan# 1524
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Tgt Ion	142	Resp	107834
Ion Ratio	Lower	Upper	
142	100		
141	90.0	70.7	106.1
115	36.7	29.7	44.5





#38

1-Methylnaphthalene

Concen: 9.424 ng

RT: 12.07 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Instrument :

BNA_M

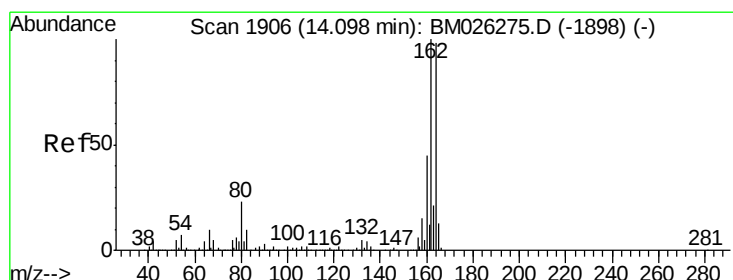
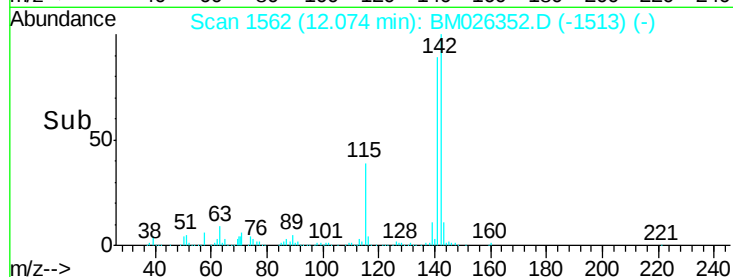
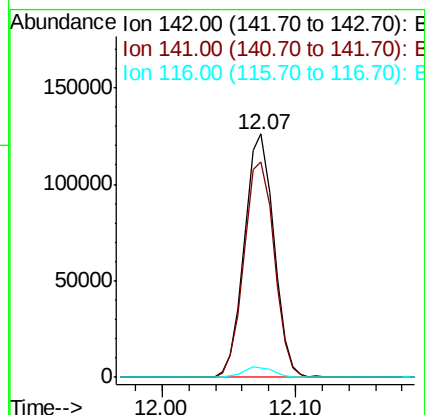
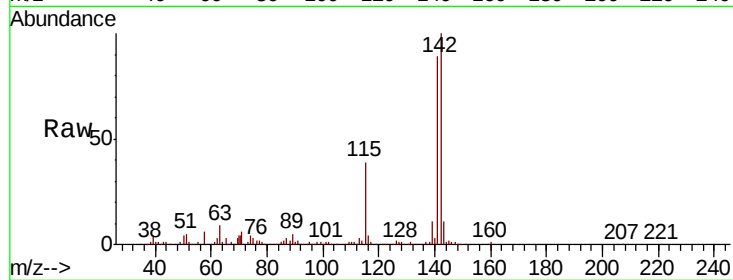
ClientSampleId :

600472986

Tot Ion:	142	Resp:	192547
Ion Ratio	Lower	Upper	
142	100		
141	88.7	73.1	109.7
116	4.0	3.4	5.0

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#39

Acenaphthene-d10

Concen: 20.000 ng

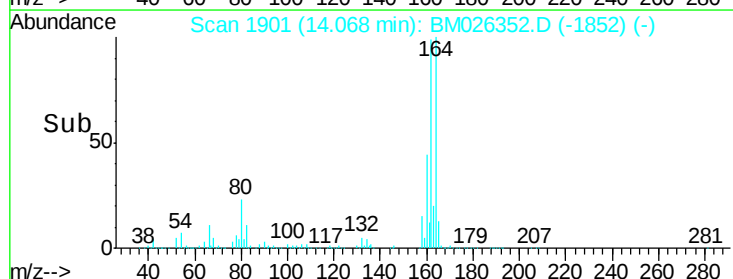
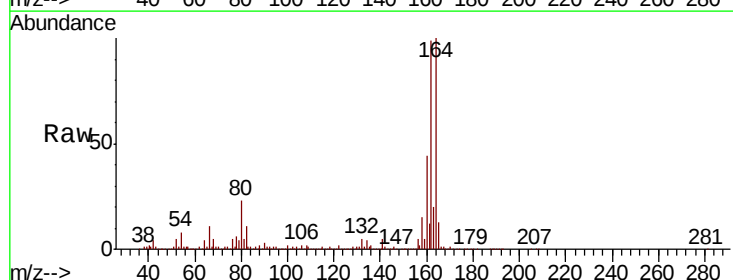
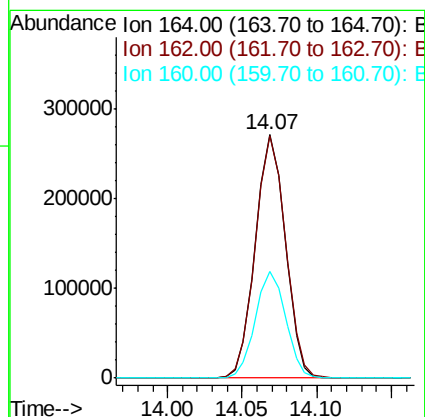
RT: 14.07 min Scan# 1901

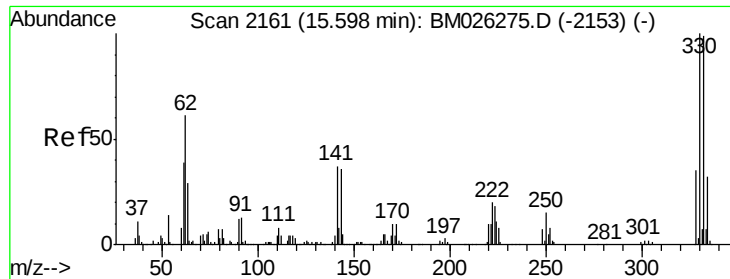
Delta R.T. -0.01 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Tgt Ion:	164	Resp:	376366
Ion Ratio	Lower	Upper	
164	100		
162	99.3	81.4	122.2
160	43.6	36.4	54.6





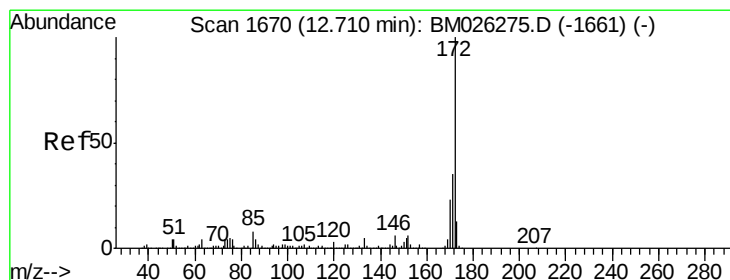
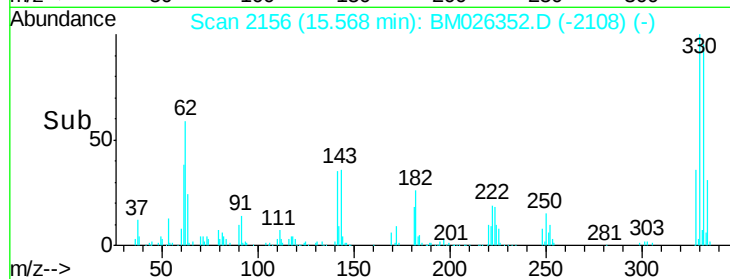
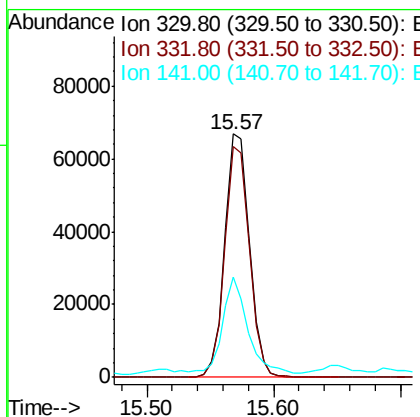
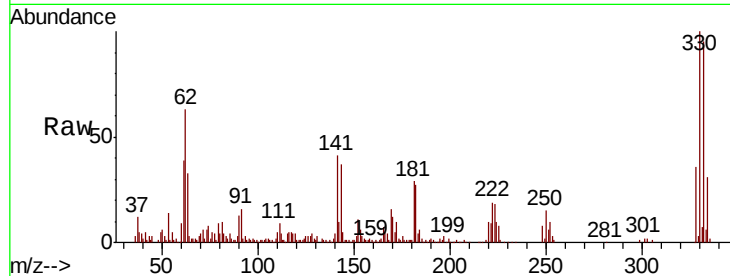
#42
 2,4,6-Tribromophenol
 Concen: 19.776 ng
 RT: 15.57 min Scan# 2156
 Delta R.T. -0.02 min
 Lab File: BM026352.D
 Acq: 11 Jun 2020 12:41

Instrument :
 BNA_M
 ClientSampleId :
 600472986

Tot Ion	Ratio	Resp	Lower	Upper
330	100	90159		
332	94.6		78.1	117.1
141	39.5		30.0	45.0

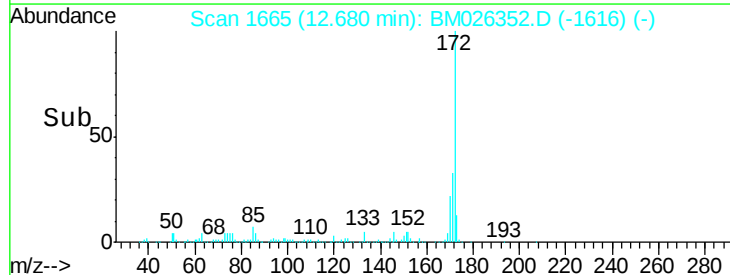
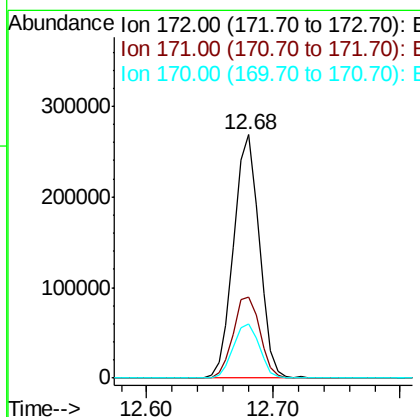
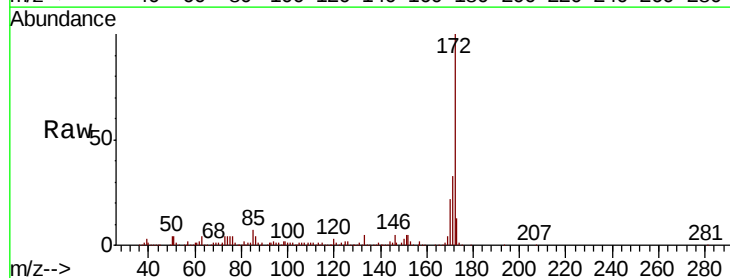
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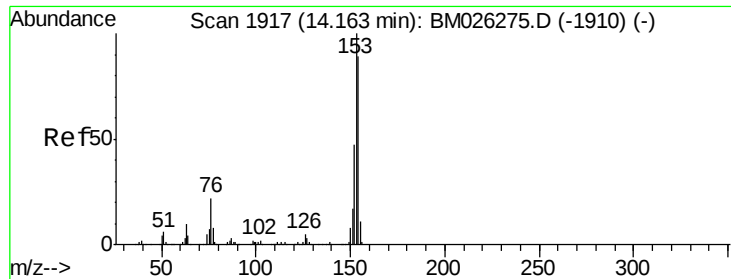
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#45
 2-Fluorobiphenyl
 Concen: 15.166 ng
 RT: 12.68 min Scan# 1665
 Delta R.T. -0.01 min
 Lab File: BM026352.D
 Acq: 11 Jun 2020 12:41

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	376017		
171	33.3		28.2	42.2
170	22.1		18.3	27.5





#52

Acenaphthene

Concen: 21.559 ng

RT: 14.13 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Instrument :

BNA_M

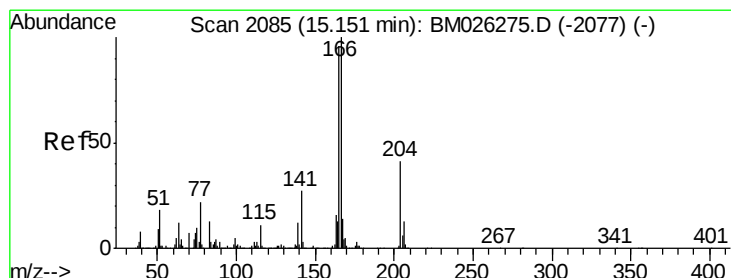
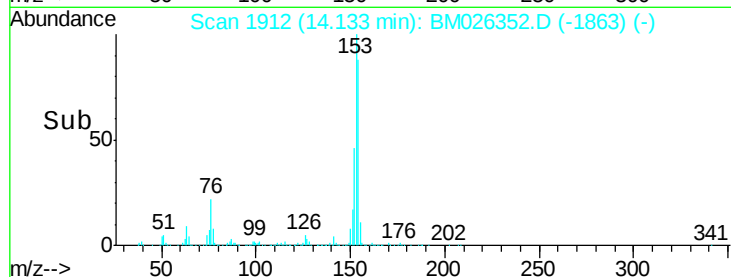
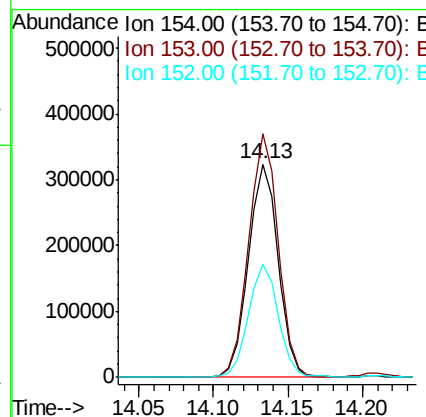
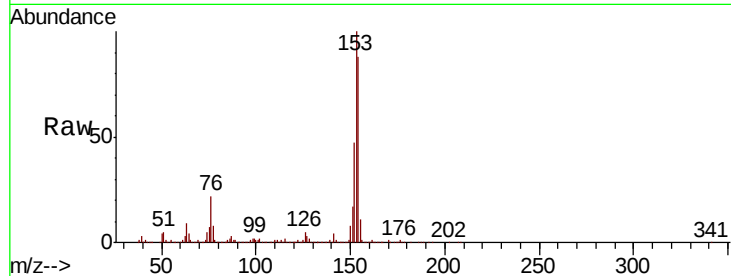
ClientSampleId :

600472986

Tot Ion:	154	Resp:	443680
Ion Ratio	Lower	Upper	
154	100		
153	114.2	89.6	134.4
152	53.1	42.1	63.1

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#58

Fluorene

Concen: 12.653 ng

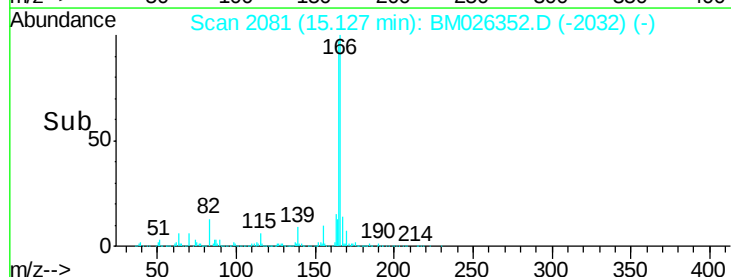
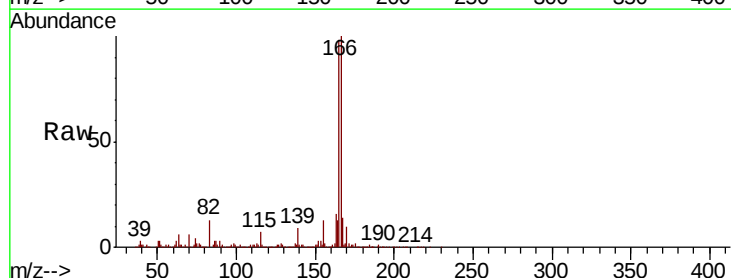
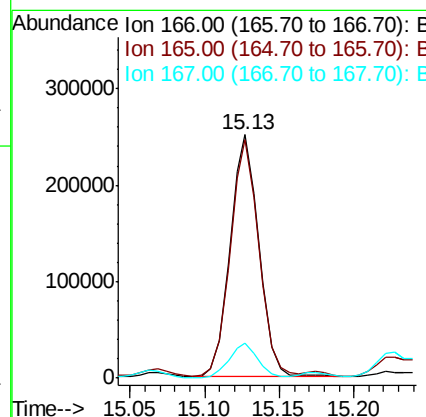
RT: 15.13 min Scan# 2081

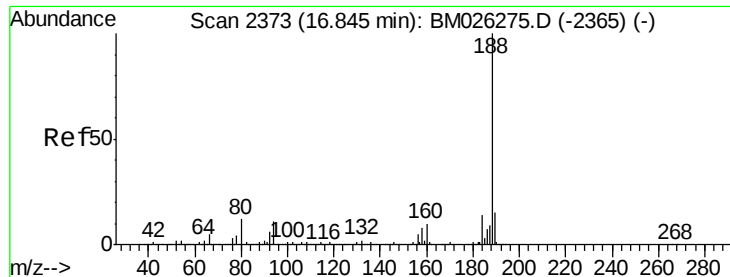
Delta R.T. -0.01 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Tgt Ion:	166	Resp:	340781
Ion Ratio	Lower	Upper	
166	100		
165	97.7	76.7	115.1
167	14.4	11.0	16.4





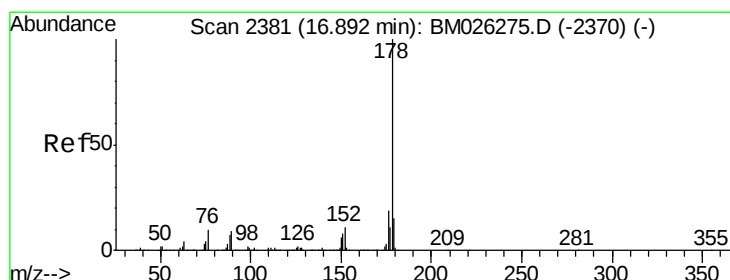
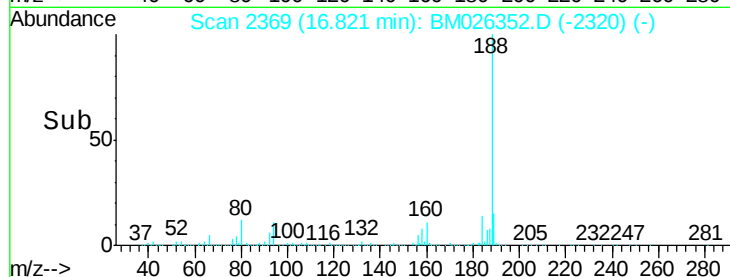
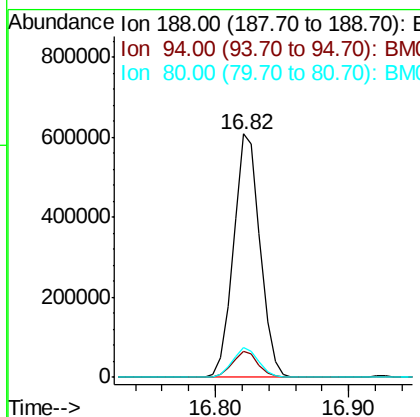
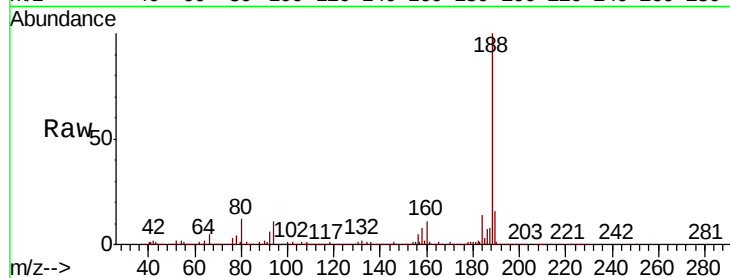
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.82 min Scan# 2369
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Instrument :
BNA_M
ClientSampleId :
600472986

Tot Ion	Ratio	Resp	Lower	Upper
188	100	839700		
94	10.6		8.6	12.8
80	12.3		9.7	14.5

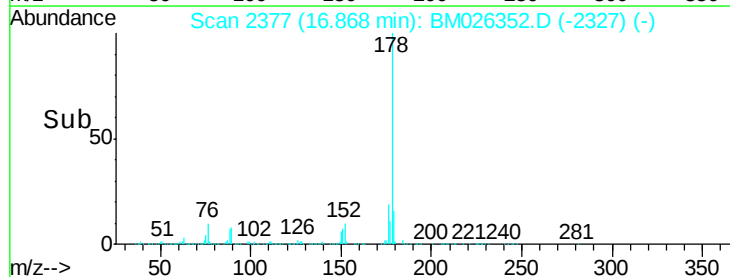
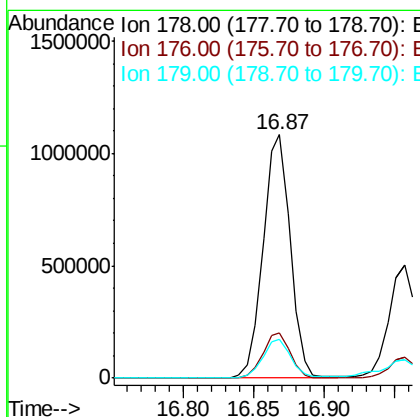
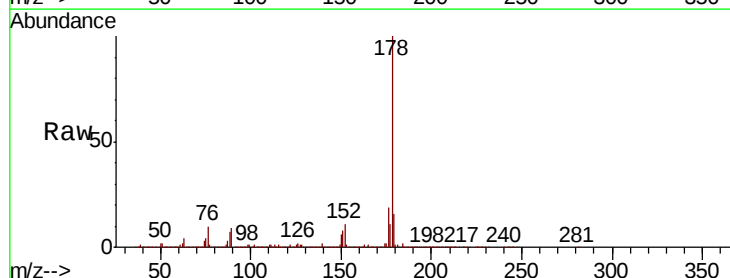
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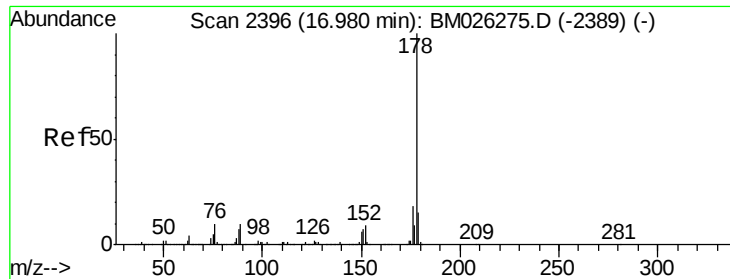
mohammad
6/15/2020 8:43:17 AM



#71
Phenanthrene
Concen: 33.479 ng
RT: 16.87 min Scan# 2377
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1463947		
176	18.7		14.9	22.3
179	15.7		12.0	18.0





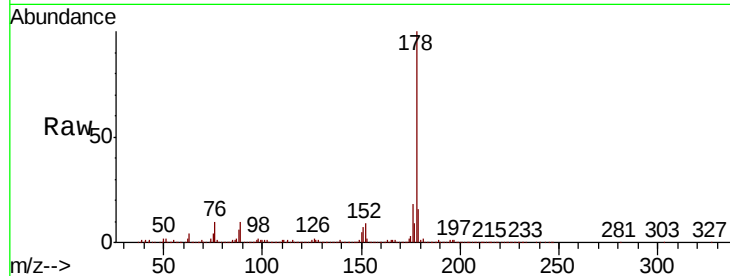
#72
 Anthracene
 Concen: 15.183 ng
 RT: 16.96 min Scan# 2392
 Delta R.T. -0.01 min
 Lab File: BM026352.D
 Acq: 11 Jun 2020 12:41

Instrument :
 BNA_M
 ClientSampleId :
 600472986

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.4	21.6
179	16.1	12.2	18.4

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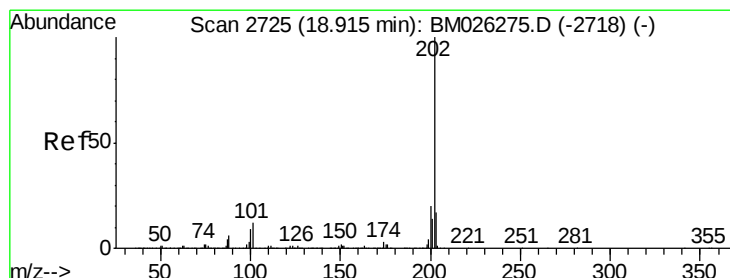
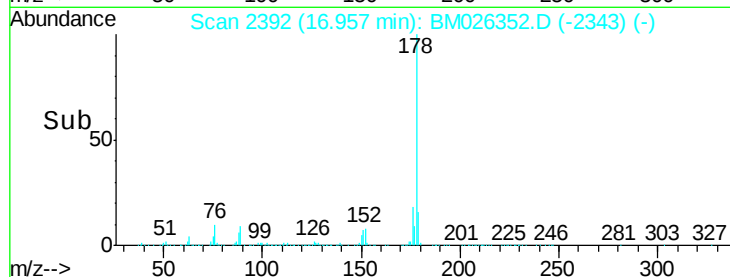
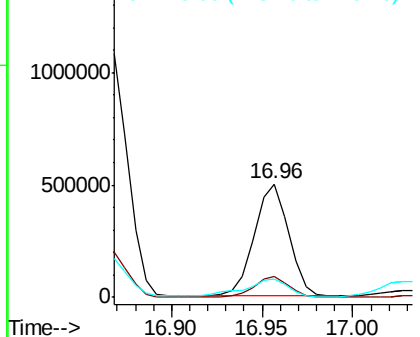


Abundance

Ion 178.00 (177.70 to 178.70): E

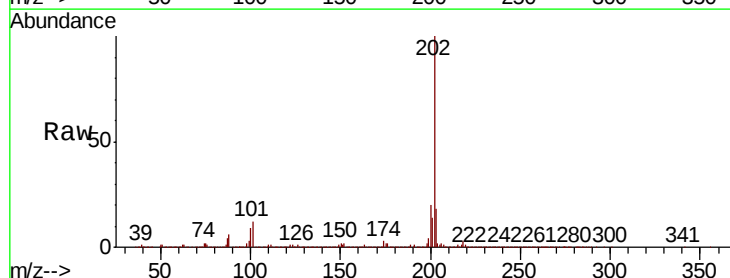
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75
 Fluoranthene
 Concen: 69.304 ng
 RT: 18.90 min Scan# 2722
 Delta R.T. -0.01 min
 Lab File: BM026352.D
 Acq: 11 Jun 2020 12:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	31.6
203	17.7	0.0	37.4

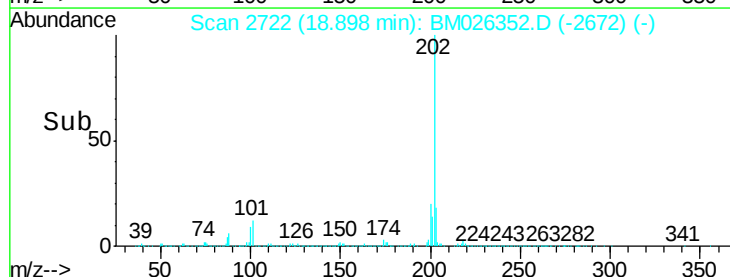
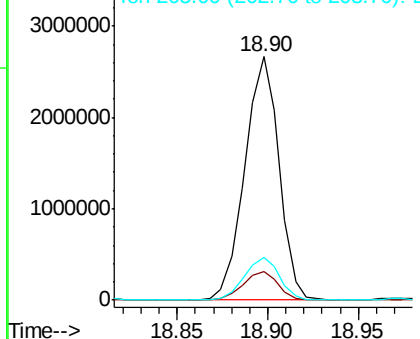


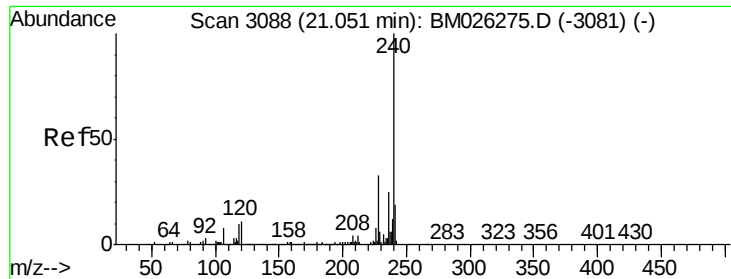
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.03 min Scan# 3085

Delta R.T. -0.01 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Instrument :

BNA_M

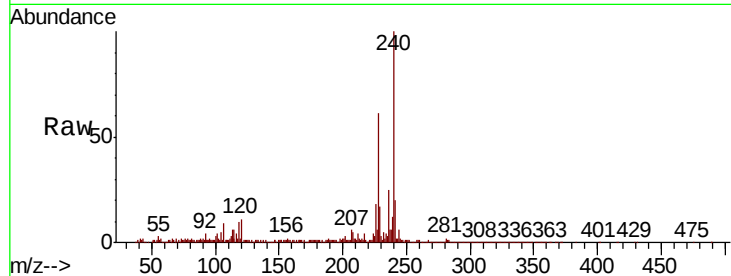
ClientSampleId :

600472986

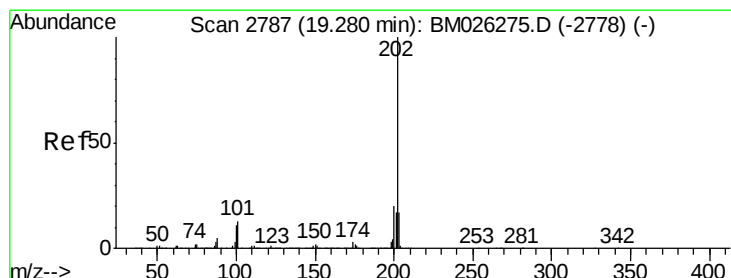
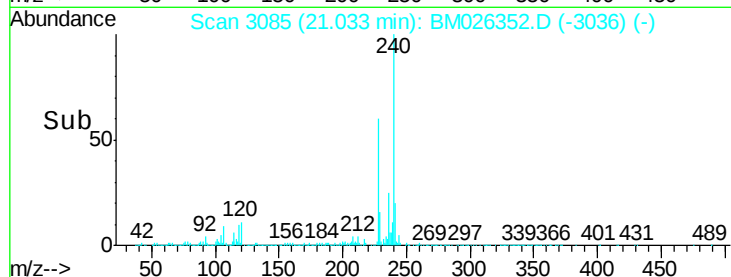
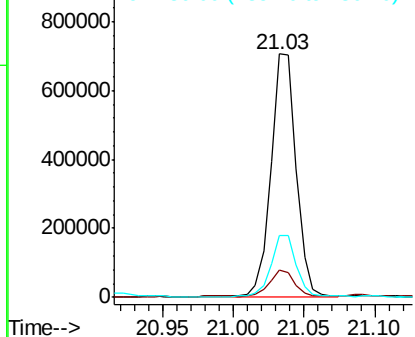
Tot Ion:	240	Resp:	881497
Ion Ratio	Lower	Upper	
240	100		
120	11.4	8.9	13.3
236	25.3	19.7	29.5

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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: 80.593 ng

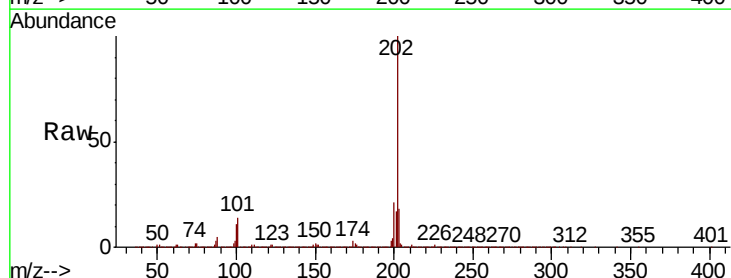
RT: 19.26 min Scan# 2784

Delta R.T. -0.01 min

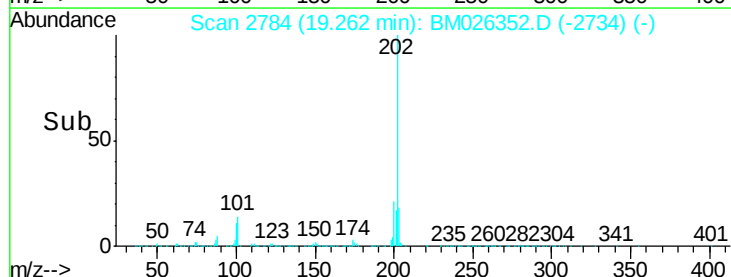
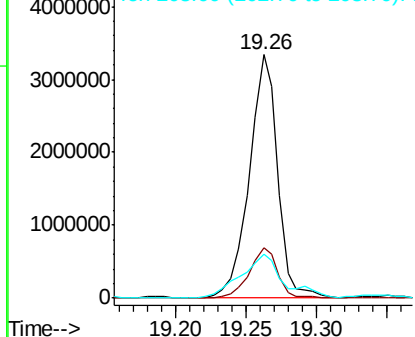
Lab File: BM026352.D

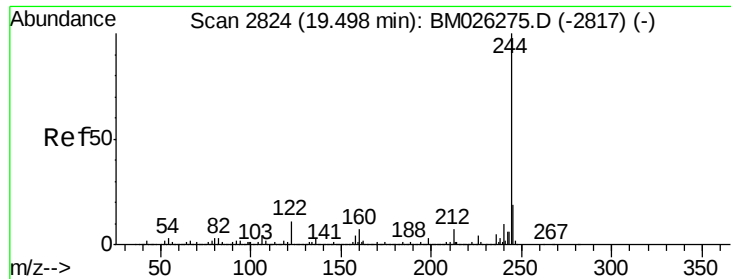
Acq: 11 Jun 2020 12:41

Tgt Ion:	202	Resp:	4693995
Ion Ratio	Lower	Upper	
202	100		
200	20.5	16.2	24.4
203	18.2	13.8	20.8



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





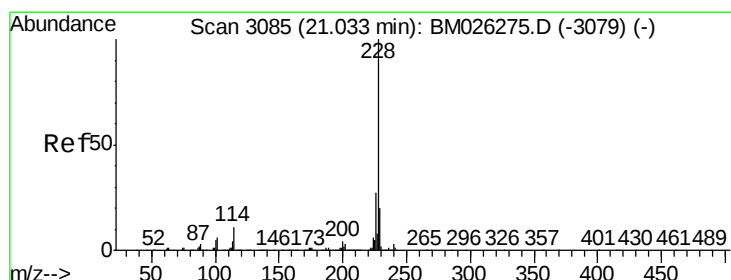
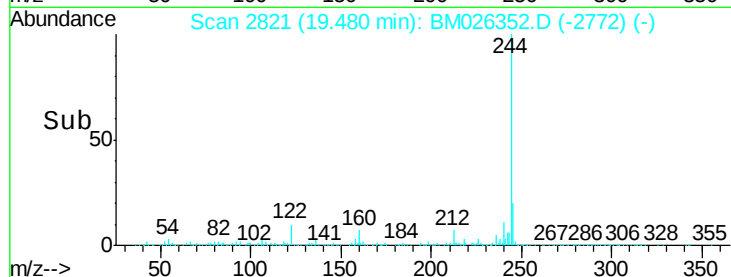
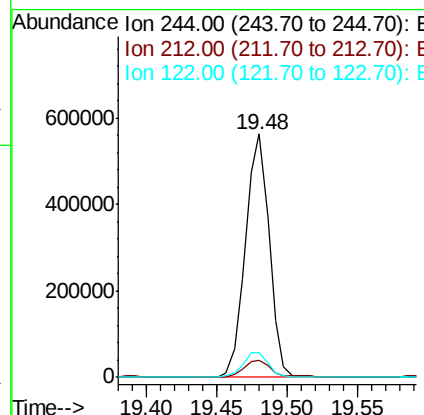
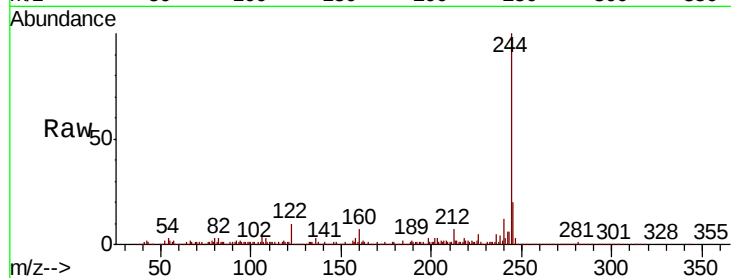
#79
 Terphenyl-d14
 Concen: 14.616 ng
 RT: 19.48 min Scan# 2821
 Delta R.T. -0.01 min
 Lab File: BM026352.D
 Acq: 11 Jun 2020 12:41

Instrument :
 BNA_M
 ClientSampleId :
 600472986

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.7	8.5
122	10.2	9.1	13.7

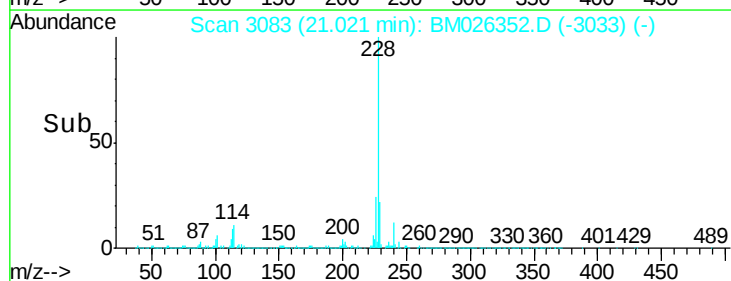
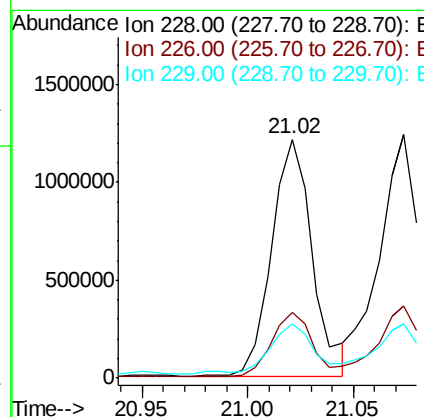
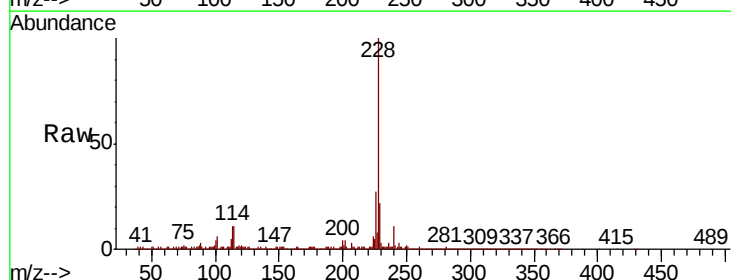
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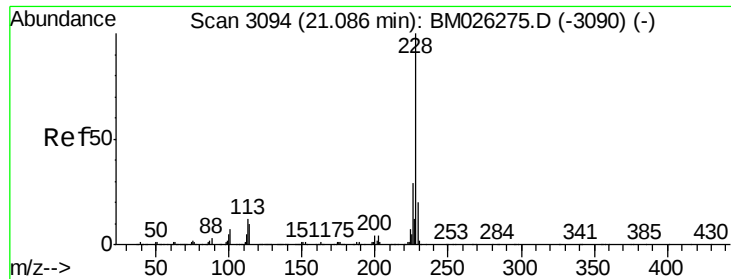
mohammad
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#81
 Benzo(a)anthracene
 Concen: 30.728 ng
 RT: 21.02 min Scan# 3083
 Delta R.T. -0.01 min
 Lab File: BM026352.D
 Acq: 11 Jun 2020 12:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.7	32.5
229	22.4	15.9	23.9





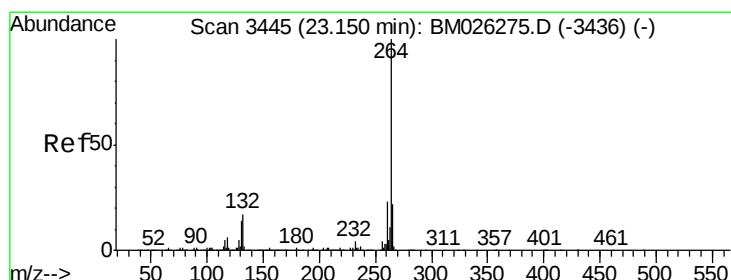
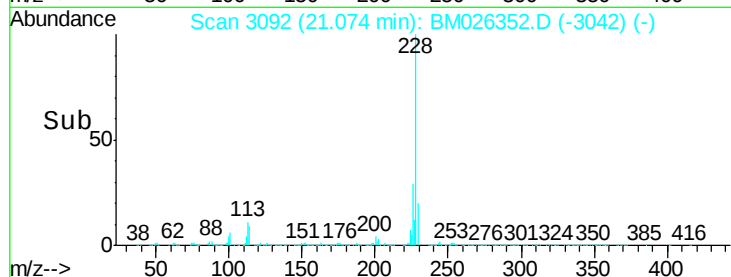
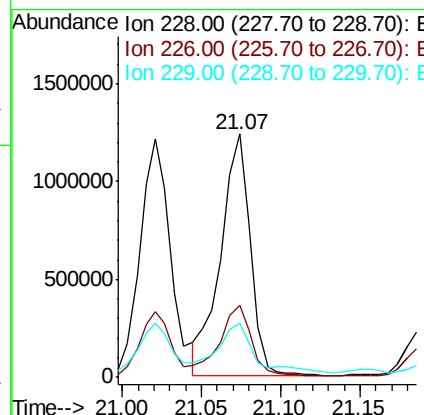
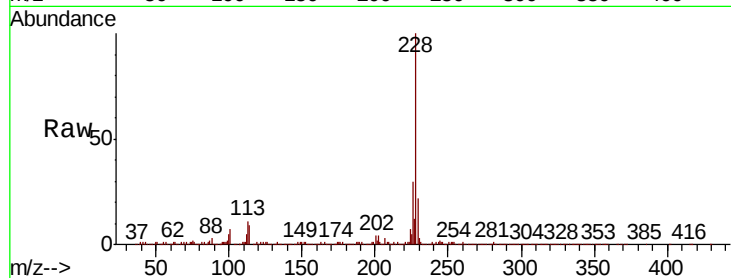
#83
Chrysene
Concen: 31.892 ng
RT: 21.07 min Scan# 3092
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Instrument :
BNA_M
ClientSampleId :
600472986

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.5	35.3
229	22.2	15.8	23.6

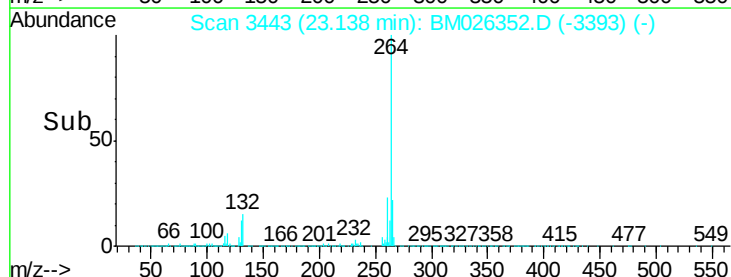
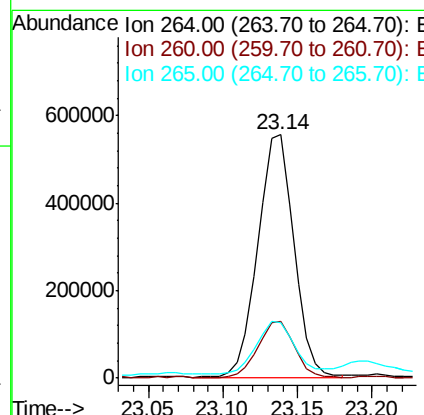
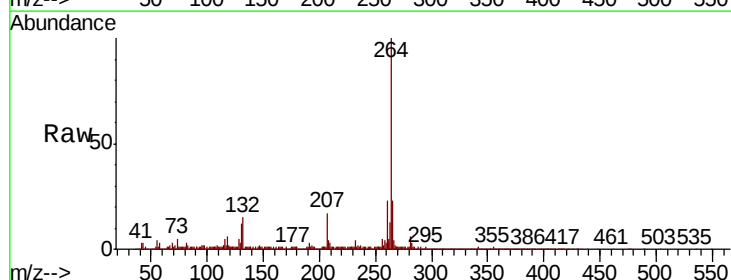
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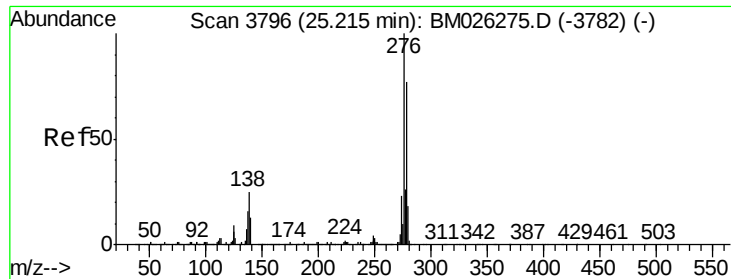
mohammad
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#86
Perylene-d12
Concen: 20.000 ng
RT: 23.14 min Scan# 3443
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	22.8	18.2	27.2





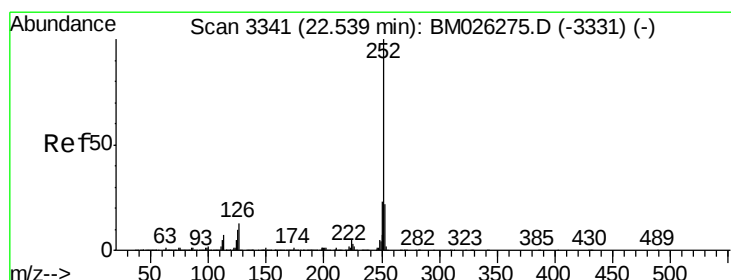
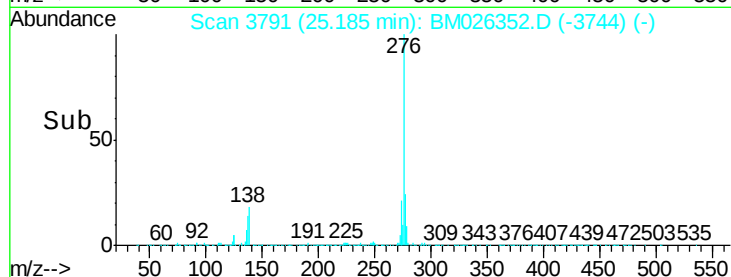
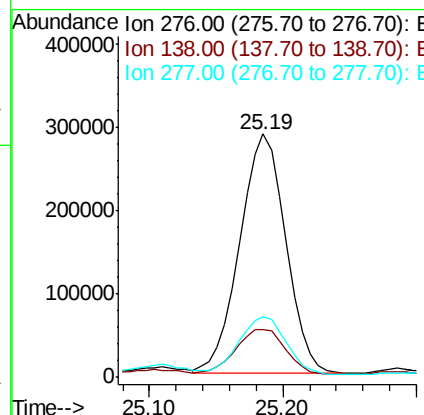
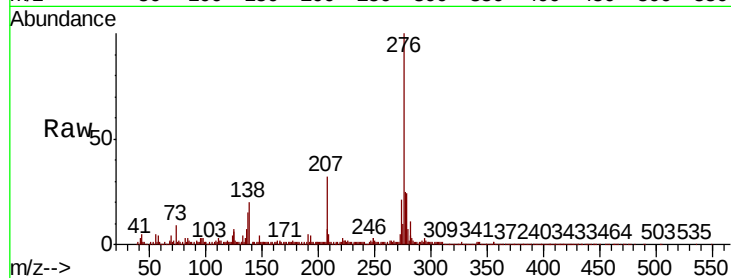
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 12.873 ng
 RT: 25.19 min Scan# 3791
 Delta R.T. -0.02 min
 Lab File: BM026352.D
 Acq: 11 Jun 2020 12:41

Instrument :
 BNA_M
 ClientSampleId :
 600472986

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.2	19.8	29.8
277	25.0	20.2	30.2

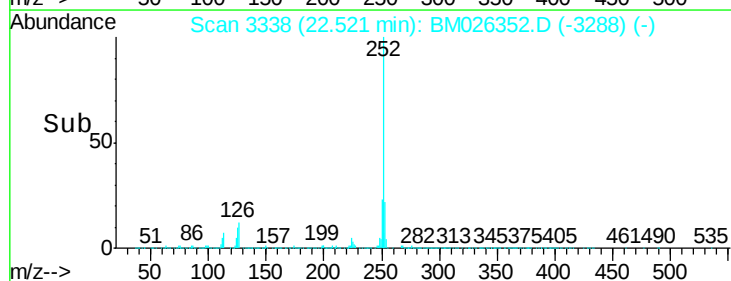
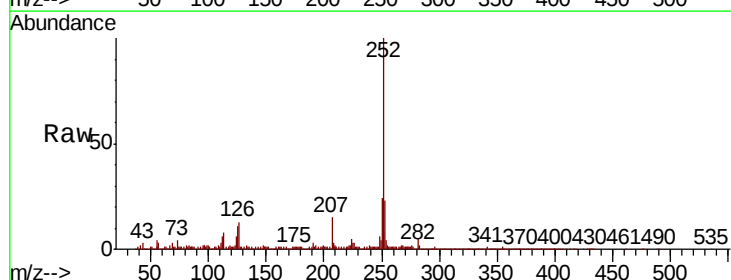
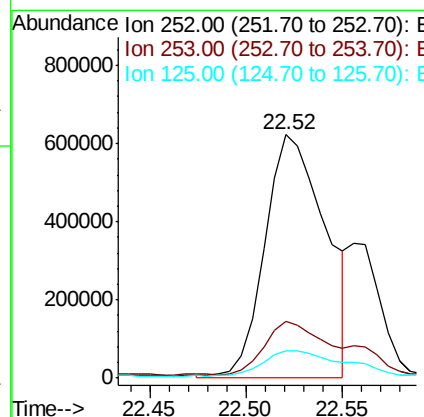
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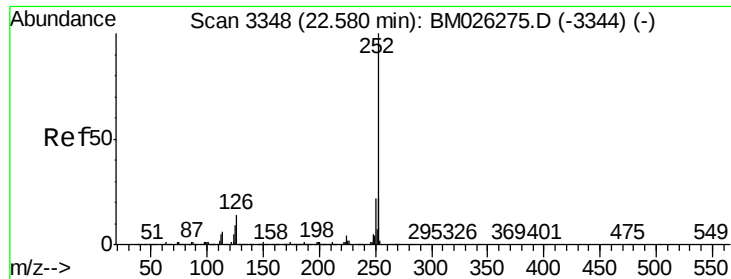
mohammad
 6/15/2020 8:43:17 AM



#88
 Benzo(b)fluoranthene
 Concen: 24.739 ng m
 RT: 22.52 min Scan# 3338
 Delta R.T. -0.01 min
 Lab File: BM026352.D
 Acq: 11 Jun 2020 12:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	11.0	7.9	11.9





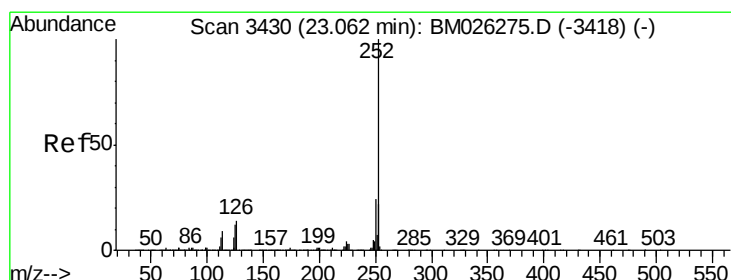
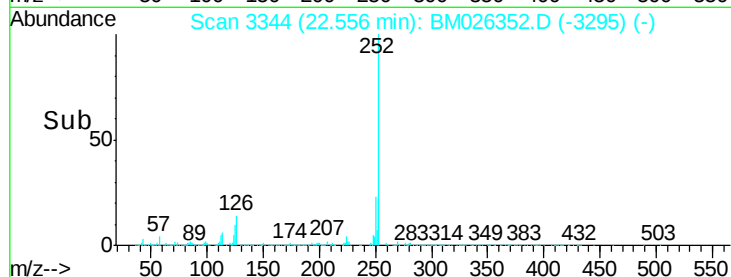
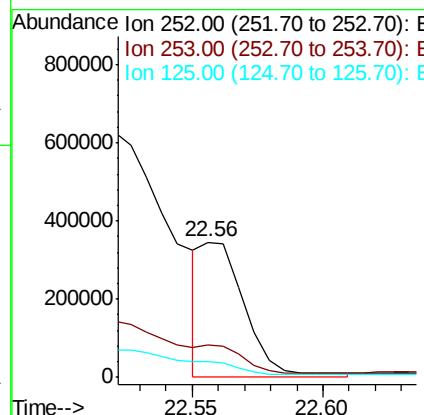
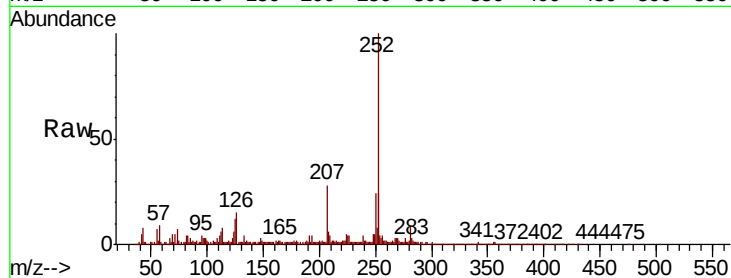
#89
Benzo(k)fluoranthene
Concen: 7.449 ng m
RT: 22.56 min Scan# 3344
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Instrument :
BNA_M
ClientSampleId :
600472986

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.3	25.9
125	11.6	7.8	11.6

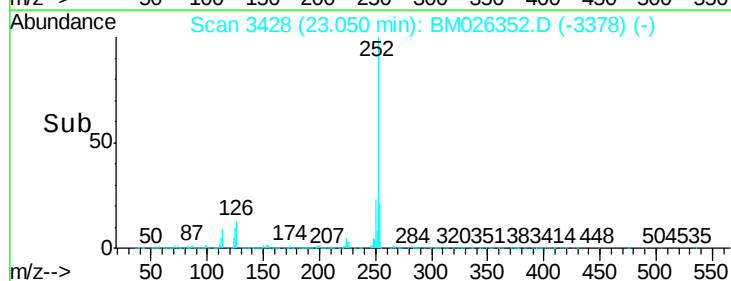
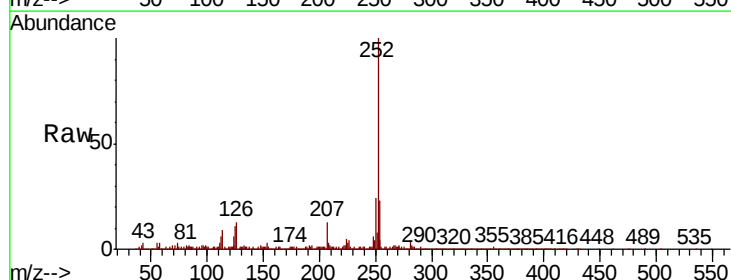
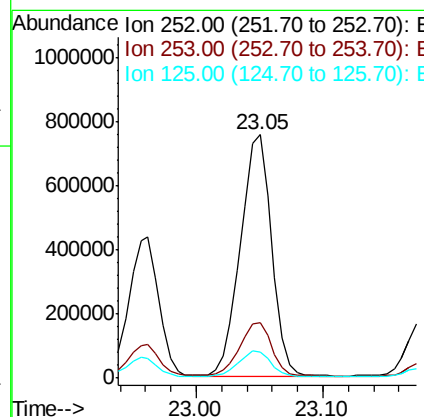
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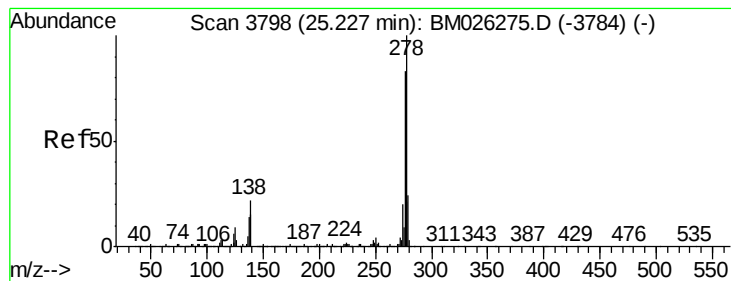
mohammad
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#90
Benzo(a)pyrene
Concen: 25.838 ng
RT: 23.05 min Scan# 3428
Delta R.T. -0.01 min
Lab File: BM026352.D
Acq: 11 Jun 2020 12:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	10.9	9.4	14.0





#91

Dibenzo(a,h)anthracene

Concen: 4.165 ng

RT: 25.19 min Scan# 3791

Delta R.T. -0.03 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Instrument :

BNA_M

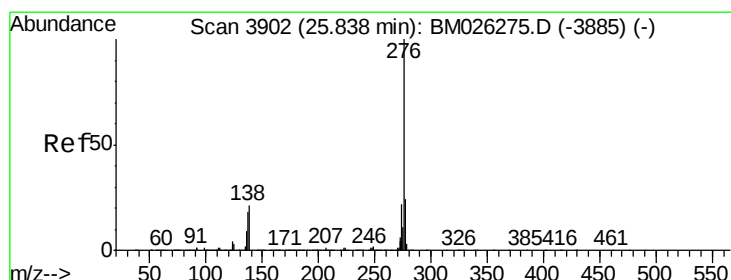
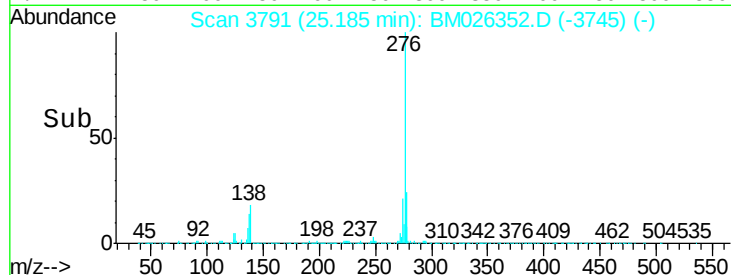
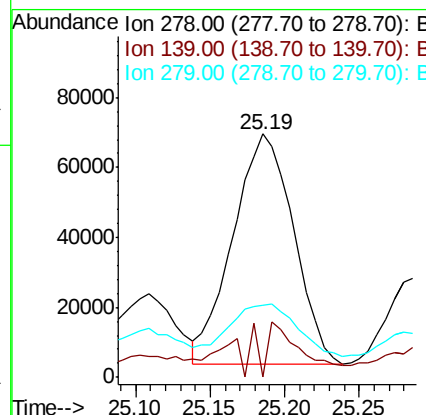
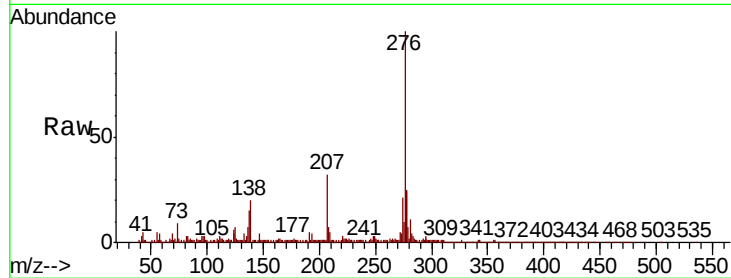
ClientSampleId :

600472986

Tot Ion:	278	Resp:	186215
Ion Ratio		Lower	Upper
278	100		
139	0.0	11.9	17.9#
279	29.5	19.0	28.4#

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#92

Benzo(g,h,i)perylene

Concen: 17.411 ng

RT: 25.81 min Scan# 3897

Delta R.T. -0.02 min

Lab File: BM026352.D

Acq: 11 Jun 2020 12:41

Tgt Ion:	276	Resp:	740702
Ion Ratio		Lower	Upper
276	100		
277	24.2	19.3	28.9
138	21.2	16.5	24.7

