

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061120\
 Data File : BM026362.D
 Acq On : 11 Jun 2020 18:49
 Operator : JU/CG
 Sample : L2817-01 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-061020

Manual Integrations
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mohammad
 6/15/2020 8:43:27 AM

Quant Time: Jun 12 01:35:42 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	125025	20.00	ng	0.00
21) Naphthalene-d8	10.18	136	471578	20.00	ng	0.00
39) Acenaphthene-d10	14.07	164	268329	20.00	ng	0.00
64) Phenanthrene-d10	16.83	188	581524	20.00	ng	0.00
76) Chrysene-d12	21.04	240	706060	20.00	ng	0.00
86) Perylene-d12	23.14	264	776332	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	286857	40.57	ng	0.00
7) Phenol-d6	6.62	99	387792	37.87	ng	-0.01
23) Nitrobenzene-d5	8.56	82	254987	26.55	ng	-0.01
42) 2,4,6-Tribromophenol	15.57	330	132396	40.73	ng	-0.01
45) 2-Fluorobiphenyl	12.68	172	502240	28.41	ng	-0.01
79) Terphenyl-d14	19.49	244	880800	24.22	ng	0.00
Target Compounds						
31) Naphthalene	10.23	128	253501	10.667	ng	99
37) 2-Methylnaphthalene	11.86	142	172272	10.173	ng	98
38) 1-Methylnaphthalene	12.08	142	152299	9.494	ng	99
46) 1,1'-Biphenyl	12.90	154	48241	2.564	ng	99
49) Acenaphthylene	13.79	152	168629	6.900	ng	98
50) Dimethylphthalate	13.55	163	97071	4.946	ng	99
52) Acenaphthene	14.14	154	180098	12.275	ng	98
55) Dibenzofuran	14.48	168	222780	9.424	ng	99
58) Fluorene	15.13	166	374309	19.494	ng	99
71) Phenanthrene	16.87	178	2473357	81.674	ng	99
72) Anthracene	16.96	178	738313	24.428	ng	100
73) Carbazole	17.24	167	203312	7.094	ng	98
75) Fluoranthene	18.90	202	2368576	68.221	ng	99
78) Pyrene	19.26	202	2194679	47.044	ng	99
81) Benzo(a)anthracene	21.02	228	1095816	25.856	ng	98
83) Chrysene	21.07	228	1021463	25.292	ng	97
87) Indeno(1,2,3-cd)pyrene	25.20	276	543835	12.110	ng	96
88) Benzo(b)fluoranthene	22.53	252	1109032m	23.748	ng	
89) Benzo(k)fluoranthene	22.56	252	407137m	8.974	ng	
90) Benzo(a)pyrene	23.05	252	948612	22.870	ng	99
91) Dibenzo(a,h)anthracene	25.20	278	147072	3.923	ng	# 87
92) Benzo(g,h,i)perylene	25.82	276	537501	15.066	ng	99

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

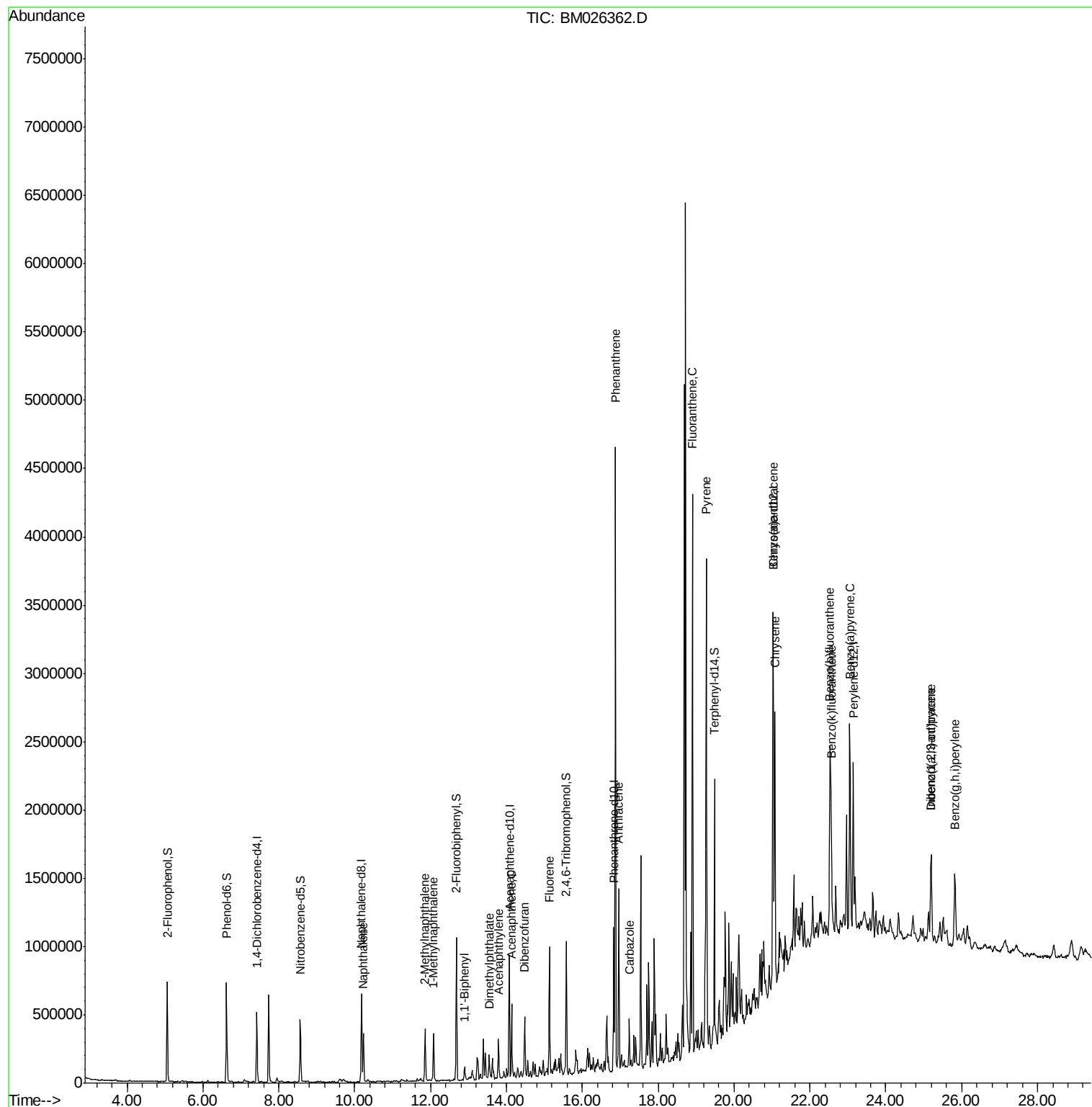
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061120\
Data File : BM026362.D
Acq On : 11 Jun 2020 18:49
Operator : JU/CG
Sample : L2817-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

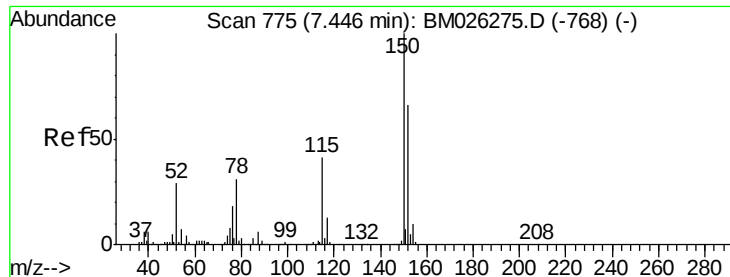
Instrument :
BNA_M
ClientSampleId :
SU-03-061020

Quant Time: Jun 12 01:35:42 2020
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 09 14:46:47 2020
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#1

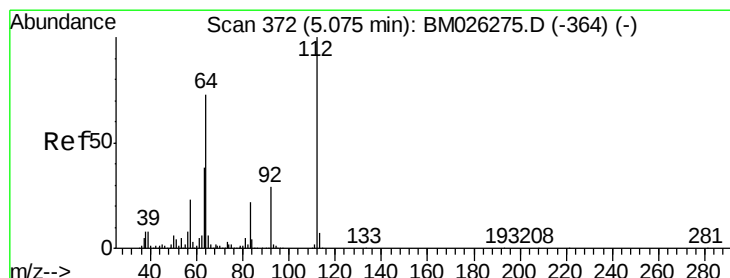
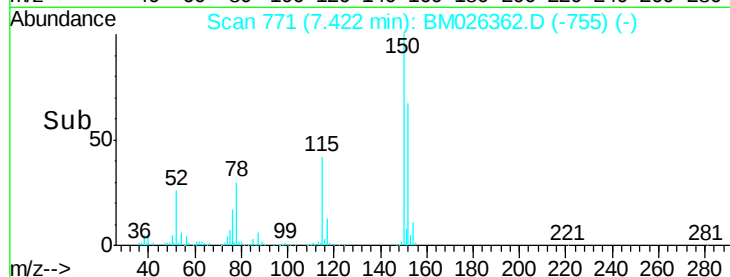
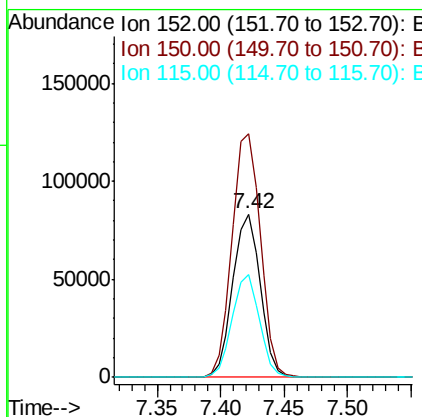
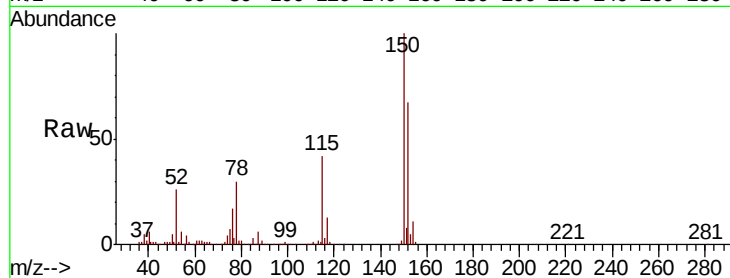
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.42 min Scan# 771
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Instrument :
BNA_M
ClientSampleId :
SU-03-061020

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.4	122.1	183.1
115	63.5	49.7	74.5

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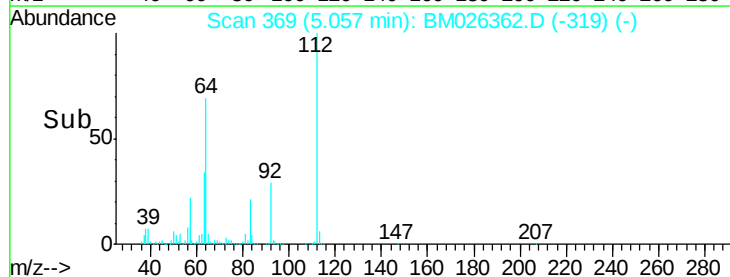
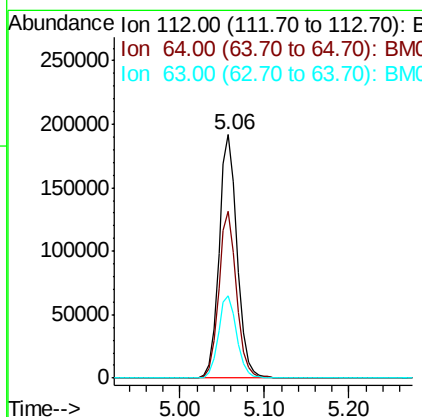
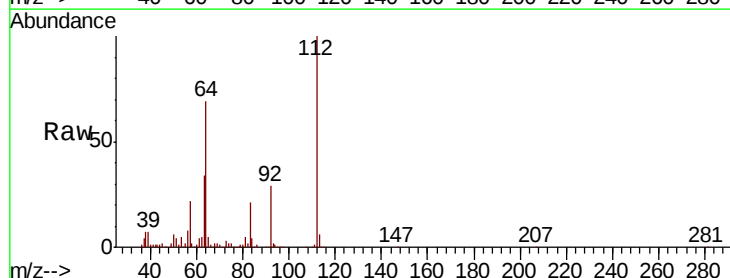
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#5

2-Fluorophenol
Concen: 40.566 ng
RT: 5.06 min Scan# 369
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.5	58.1	87.1
63	33.6	30.6	45.8





#7

Phenol-d6

Concen: 37.871 ng

RT: 6.62 min Scan# 635

Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Instrument :

BNA_M

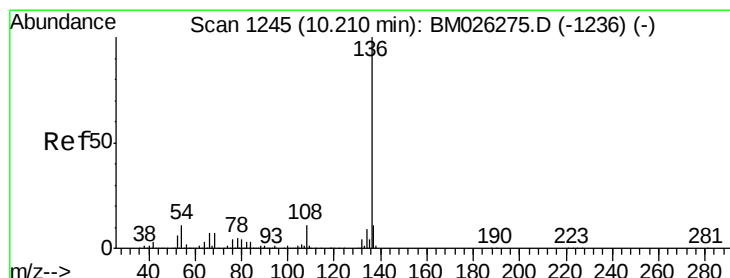
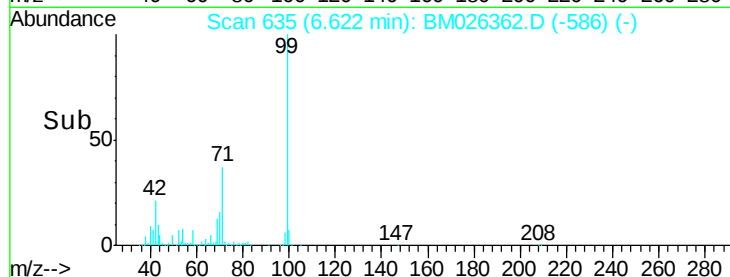
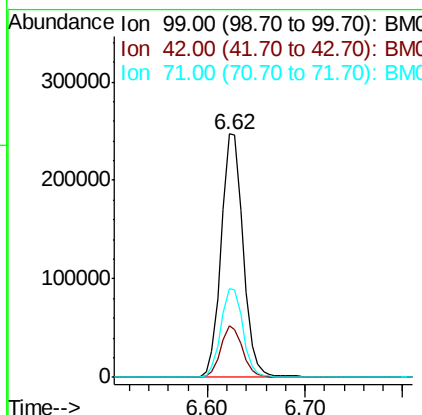
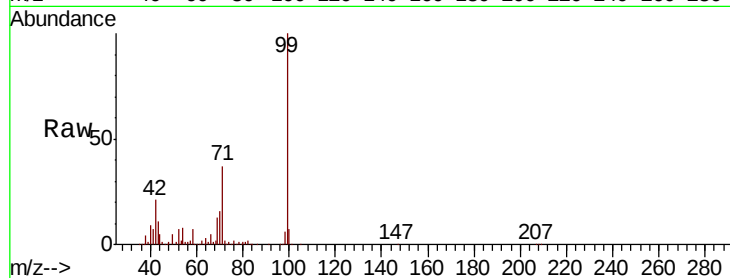
ClientSampleId :

SU-03-061020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		387792		
42	20.9	18.0	27.0		
71	36.5	30.6	45.8		

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#21

Naphthalene-d8

Concen: 20.000 ng

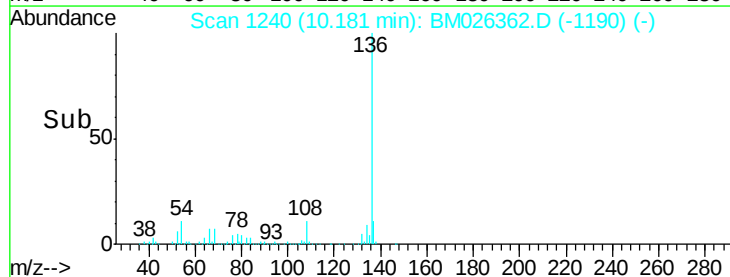
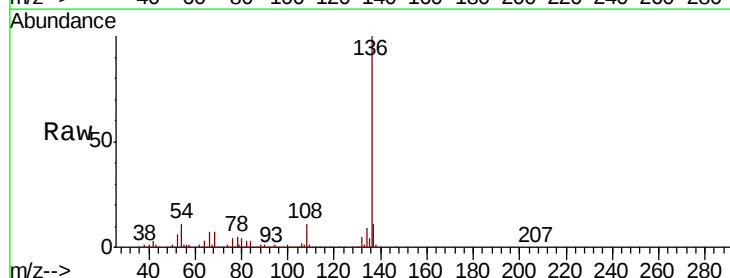
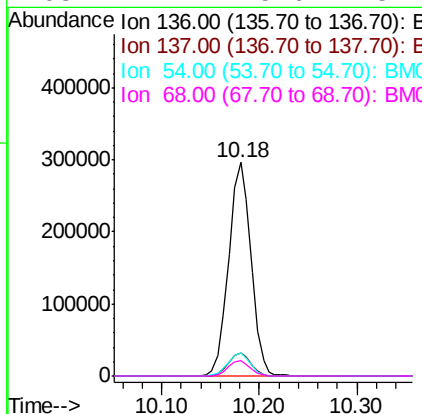
RT: 10.18 min Scan# 1240

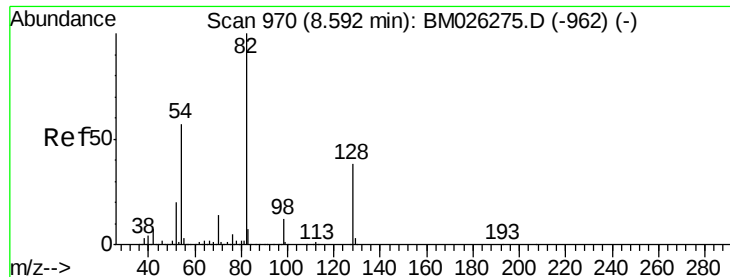
Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		471578		
137	10.5	8.6	13.0		
54	10.7	9.0	13.4		
68	7.1	5.6	8.4		





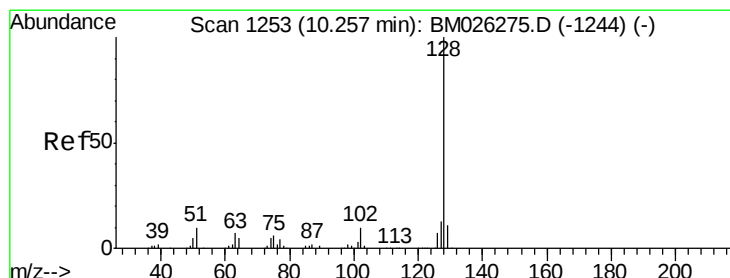
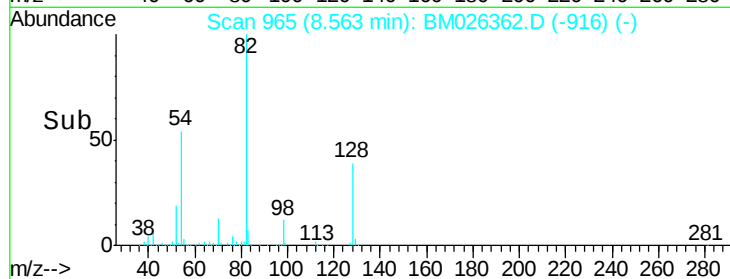
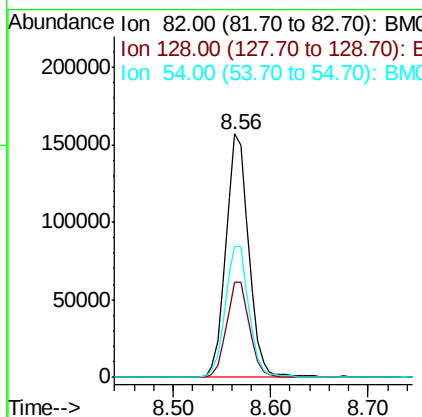
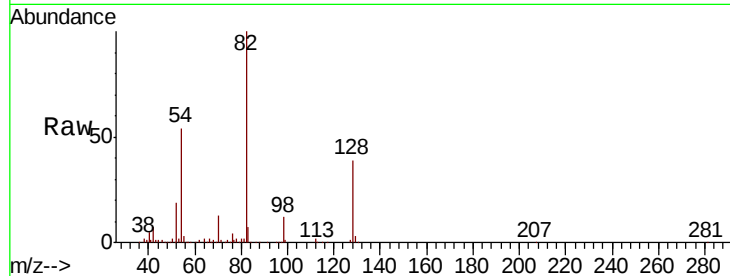
#23
 Nitrobenzene-d5
 Concen: 26.549 ng
 RT: 8.56 min Scan# 965
 Delta R.T. -0.01 min
 Lab File: BM026362.D
 Acq: 11 Jun 2020 18:49

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-061020

Tot Ion:	82	Resp:	254987
Ion Ratio	Lower	Upper	
82	100		
128	38.9	30.3	45.5
54	53.8	45.4	68.2

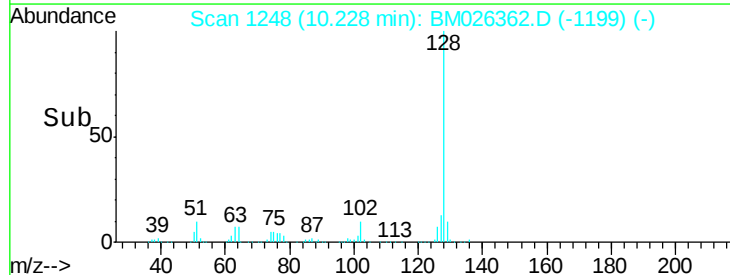
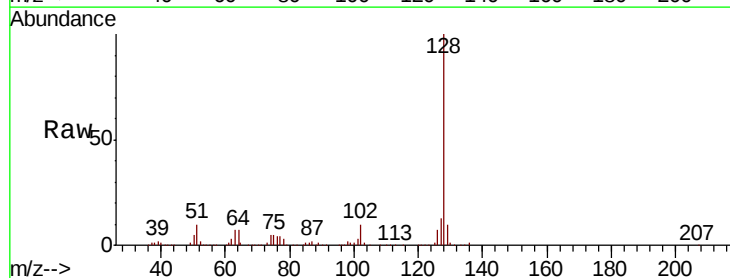
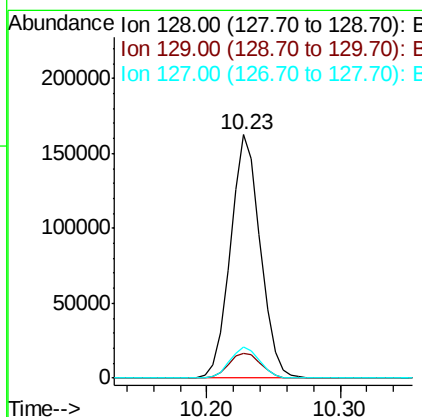
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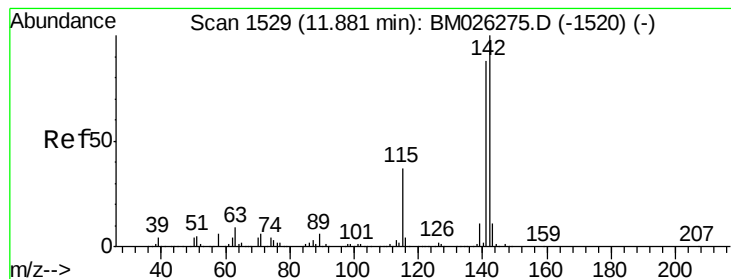
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#31
 Naphthalene
 Concen: 10.667 ng
 RT: 10.23 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: BM026362.D
 Acq: 11 Jun 2020 18:49

Tgt Ion:	128	Resp:	253501
Ion Ratio	Lower	Upper	
128	100		
129	10.3	8.8	13.2
127	13.1	10.6	15.8





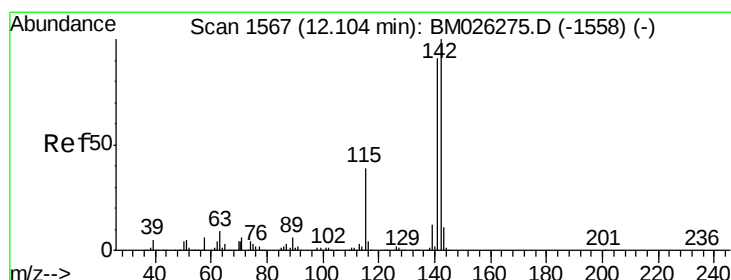
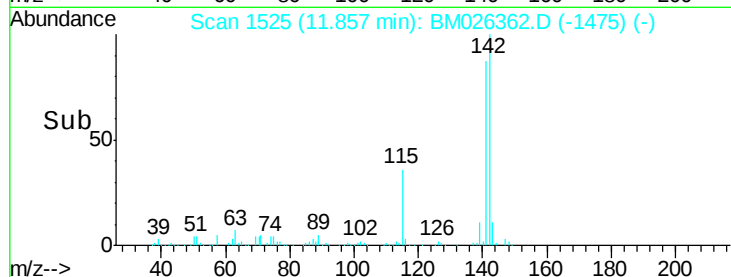
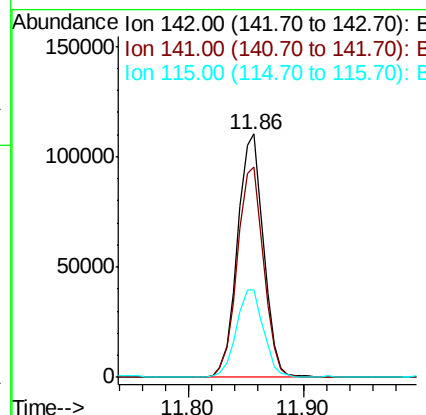
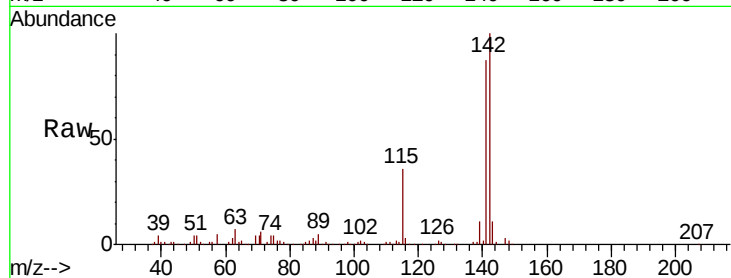
#37
2-Methylnaphthalene
Concen: 10.173 ng
RT: 11.86 min Scan# 1525
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Instrument :
BNA_M
ClientSampled :
SU-03-061020

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.6	70.7	106.1
115	36.1	29.7	44.5

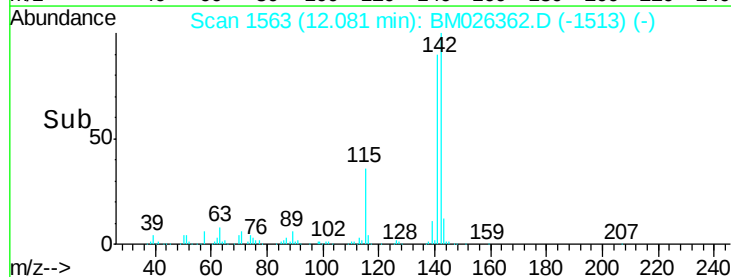
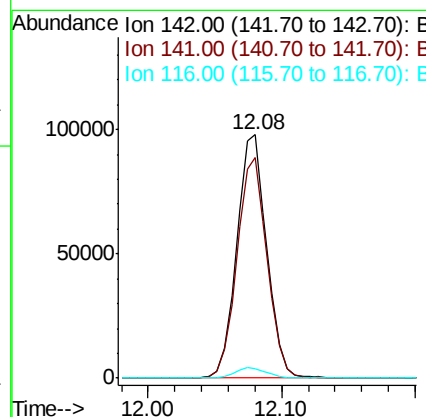
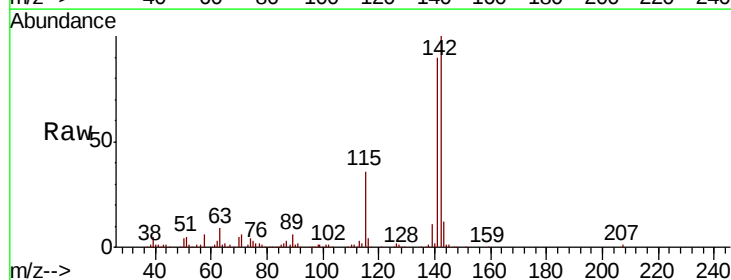
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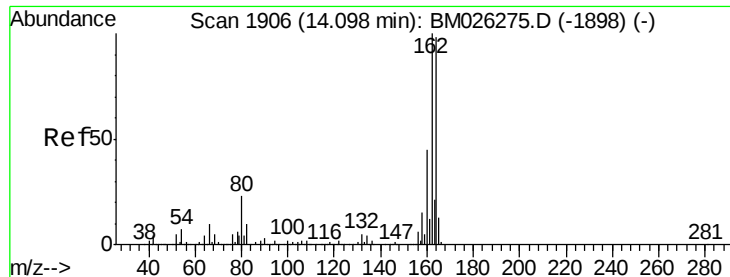
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#38
1-Methylnaphthalene
Concen: 9.494 ng
RT: 12.08 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.4	73.1	109.7
116	3.6	3.4	5.0





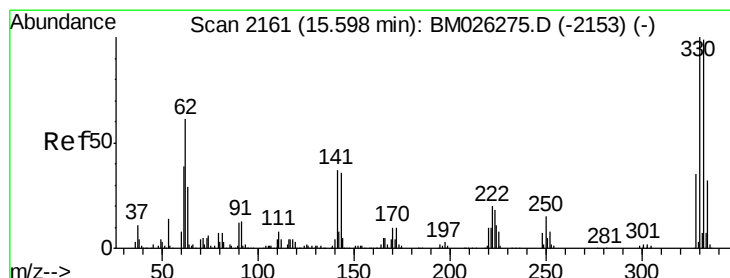
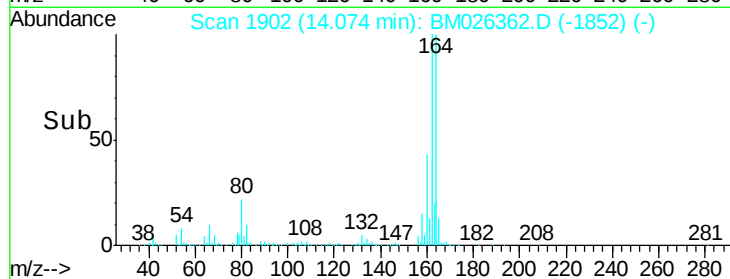
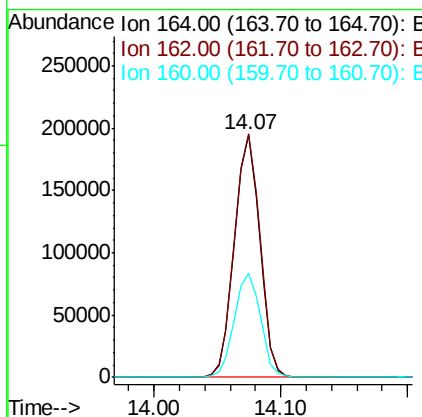
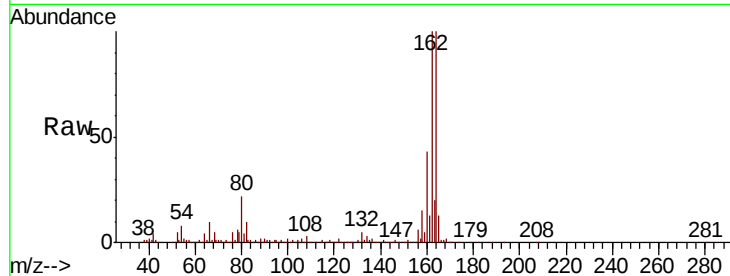
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Acenaphthene-d10
Concen: 20.000 ng
RT: 14.07 min Scan# 1902
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Instrument :
BNA_M
ClientSampleId :
SU-03-061020

Tot Ion	Ratio	Resp	Lower	Upper
164	100	268329		
162	100.3		81.4	122.2
160	42.9		36.4	54.6

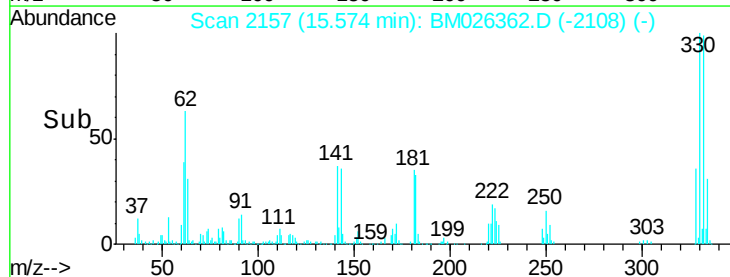
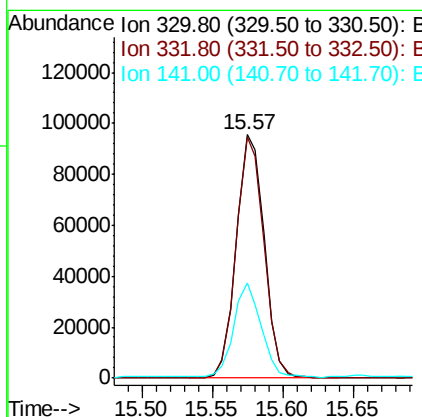
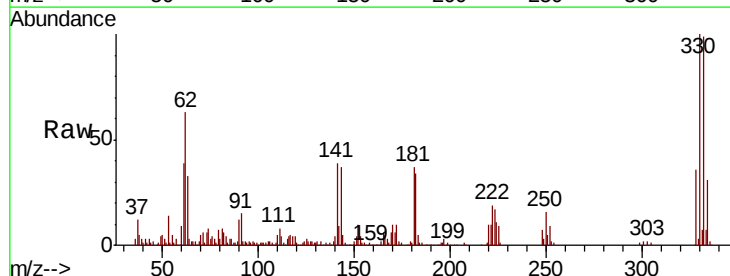
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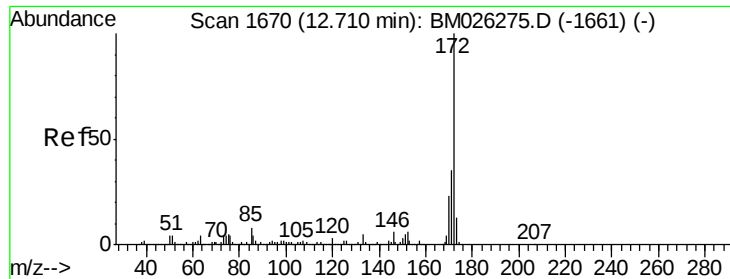
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#42
2,4,6-Tribromophenol
Concen: 40.732 ng
RT: 15.57 min Scan# 2157
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	132396		
332	98.3		78.1	117.1
141	37.6		30.0	45.0





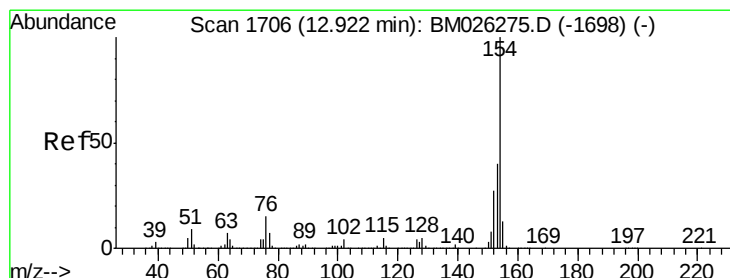
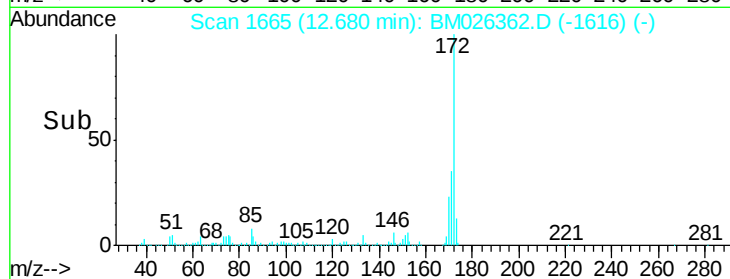
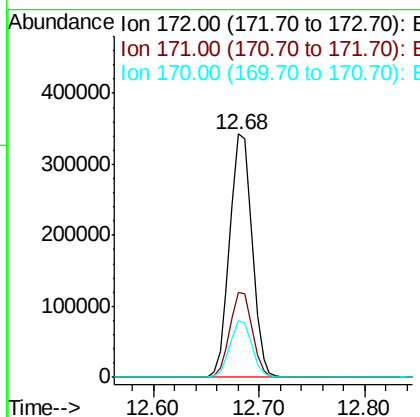
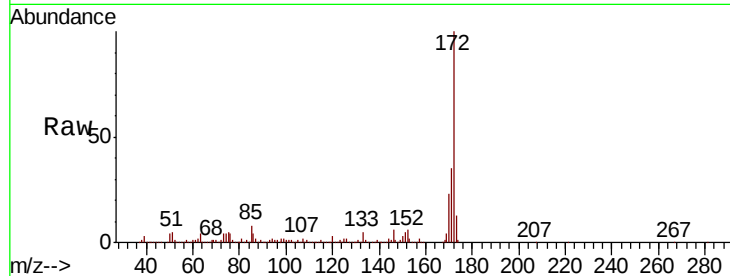
#45
2-Fluorobiphenyl
Concen: 28.412 ng
RT: 12.68 min Scan# 1665
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Instrument :
BNA_M
ClientSampleId :
SU-03-061020

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.2	42.2
170	23.2	18.3	27.5

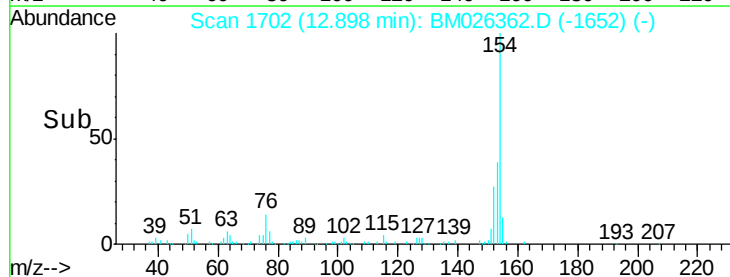
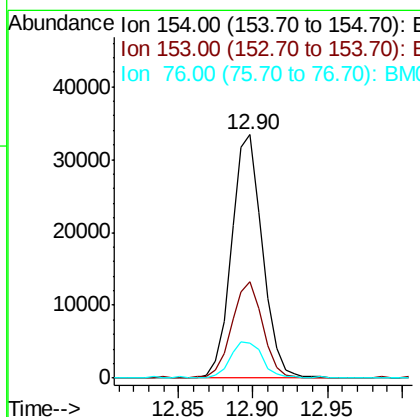
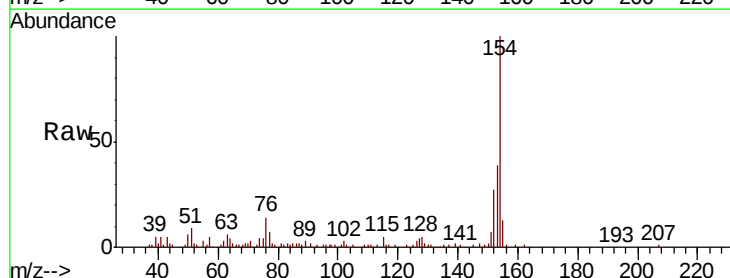
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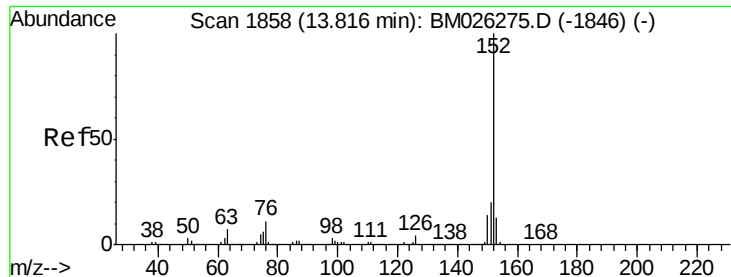
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#46
1,1'-Biphenyl
Concen: 2.564 ng
RT: 12.90 min Scan# 1702
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.4	20.1	60.1
76	14.1	0.0	34.7





#49

Acenaphthylene

Concen: 6.900 ng

RT: 13.79 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Instrument :

BNA_M

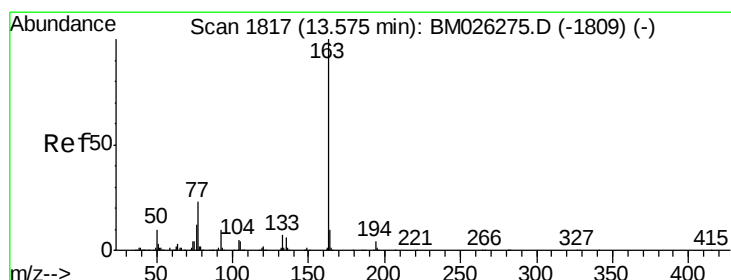
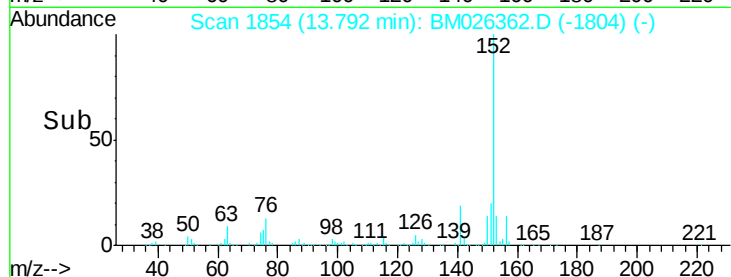
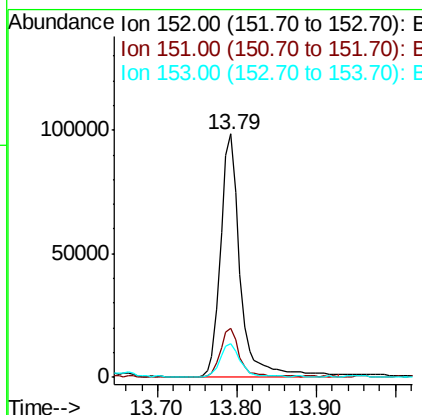
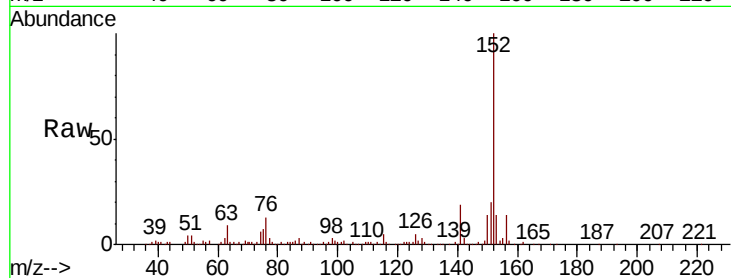
ClientSampleId :

SU-03-061020

Tot Ion:	152	Resp:	168629
Ion Ratio	Lower	Upper	
152	100		
151	20.2	15.7	23.5
153	14.0	10.2	15.4

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#50

Dimethylphthalate

Concen: 4.946 ng

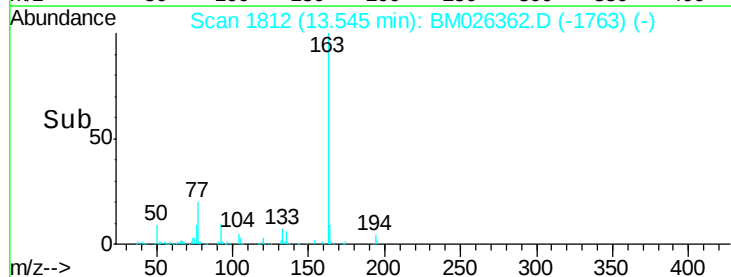
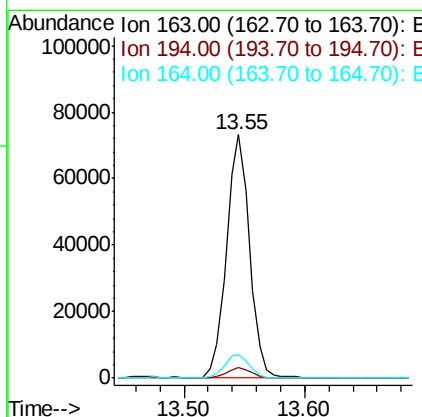
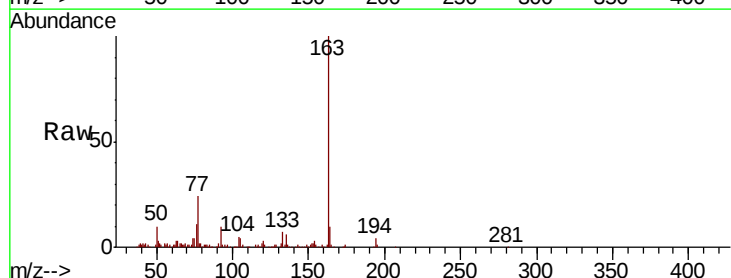
RT: 13.55 min Scan# 1812

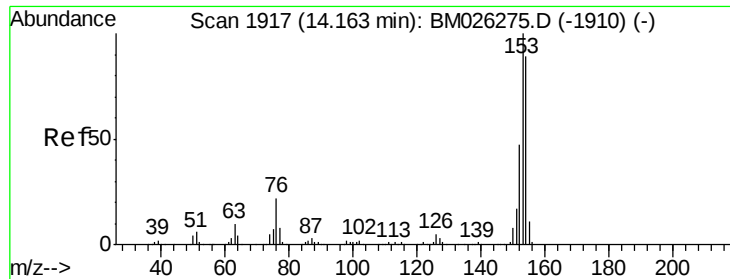
Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Tgt Ion:	163	Resp:	97071
Ion Ratio	Lower	Upper	
163	100		
194	4.4	3.4	5.2
164	9.7	8.0	12.0





#52

Acenaphthene

Concen: 12.275 ng

RT: 14.14 min Scan# 1913

Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Instrument :

BNA_M

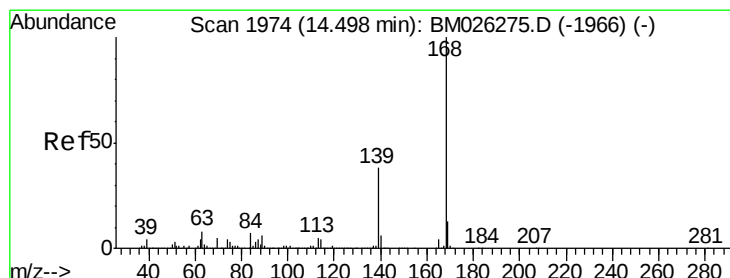
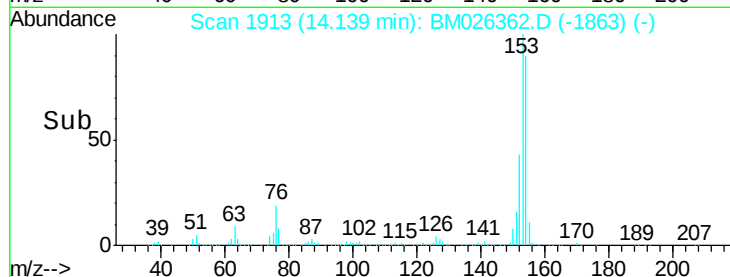
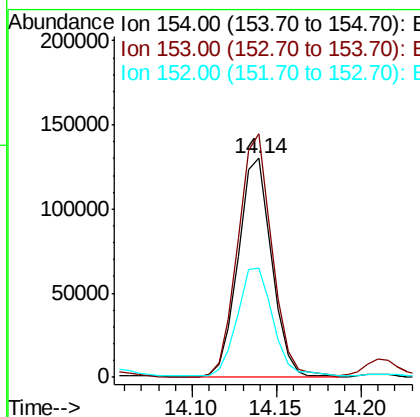
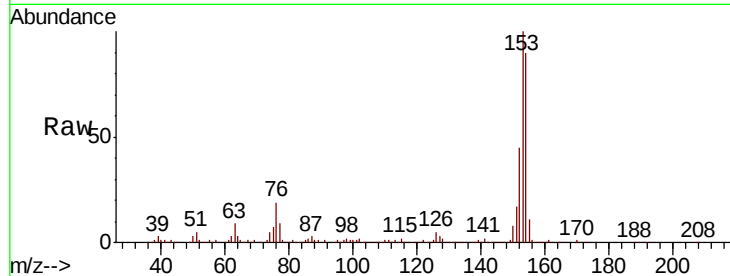
ClientSampleId :

SU-03-061020

Tot Ion:	154	Resp:	180098
Ion Ratio	Lower	Upper	
154	100		
153	111.1	89.6	134.4
152	50.1	42.1	63.1

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#55

Dibenzofuran

Concen: 9.424 ng

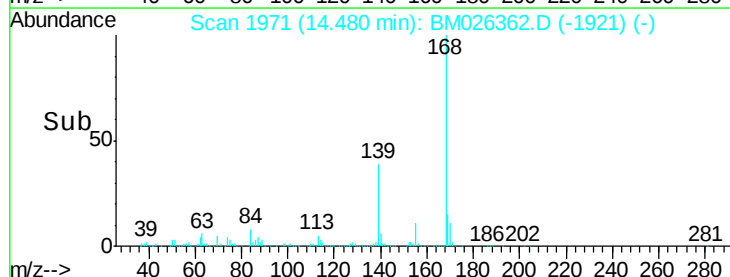
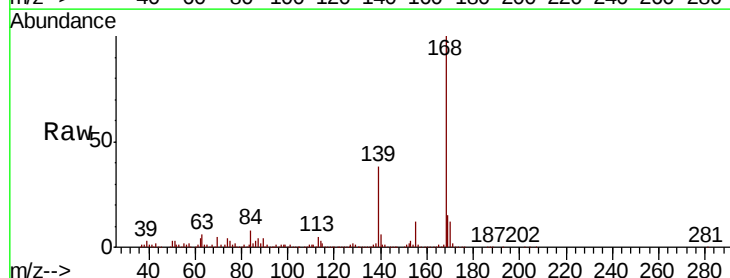
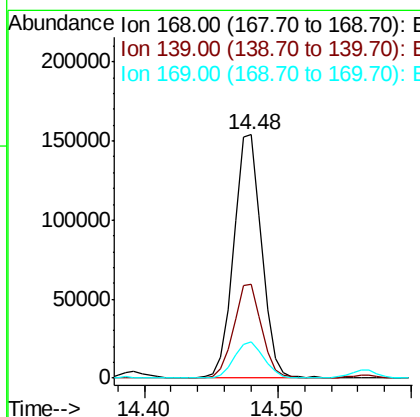
RT: 14.48 min Scan# 1971

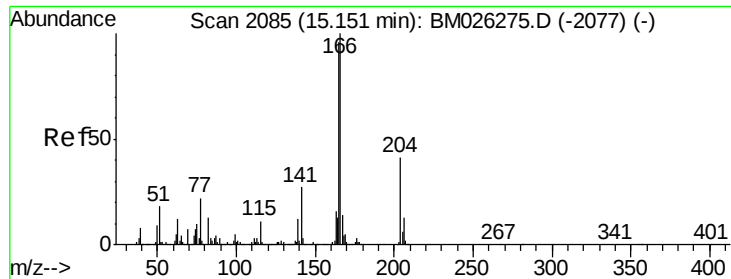
Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Tgt Ion:	168	Resp:	222780
Ion Ratio	Lower	Upper	
168	100		
139	38.3	30.7	46.1
169	15.1	10.5	15.7





#58

Fluorene

Concen: 19.494 ng

RT: 15.13 min Scan# 2082

Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Instrument :

BNA_M

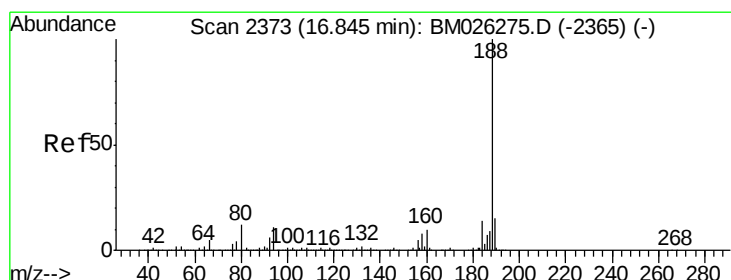
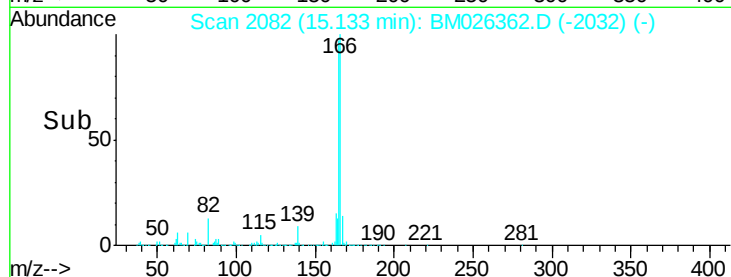
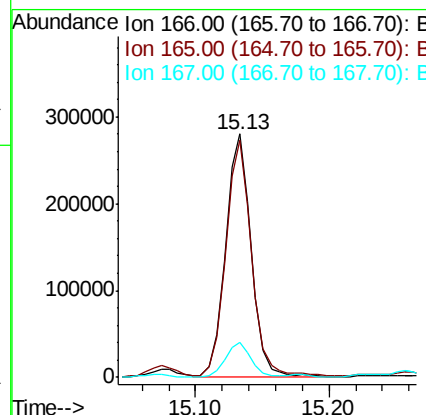
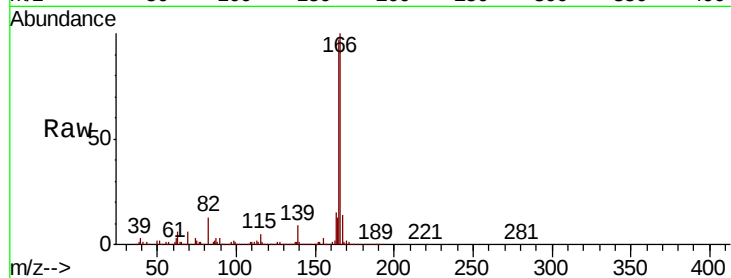
ClientSampleId :

SU-03-061020

Tot Ion:	166	Resp:	374309
Ion Ratio	Lower	Upper	
166	100		
165	97.3	76.7	115.1
167	14.1	11.0	16.4

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#64

Phenanthrene-d10

Concen: 20.000 ng

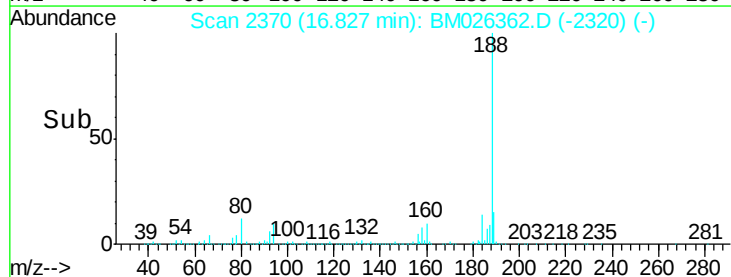
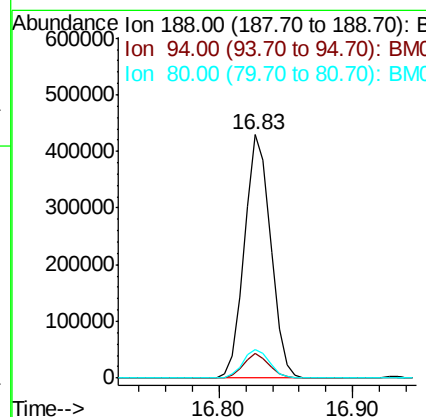
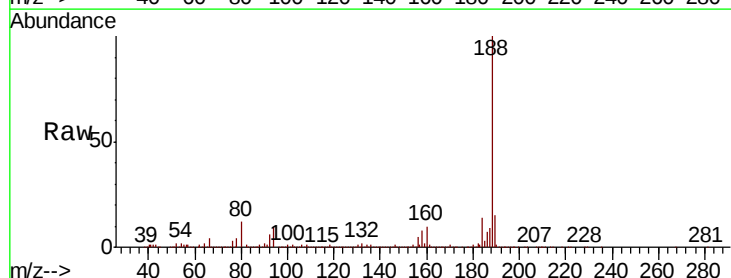
RT: 16.83 min Scan# 2370

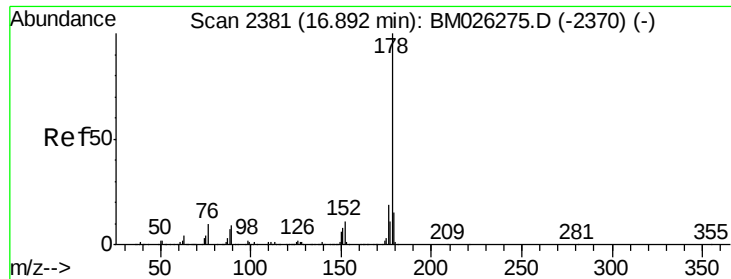
Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Tgt Ion:	188	Resp:	581524
Ion Ratio	Lower	Upper	
188	100		
94	10.3	8.6	12.8
80	11.9	9.7	14.5





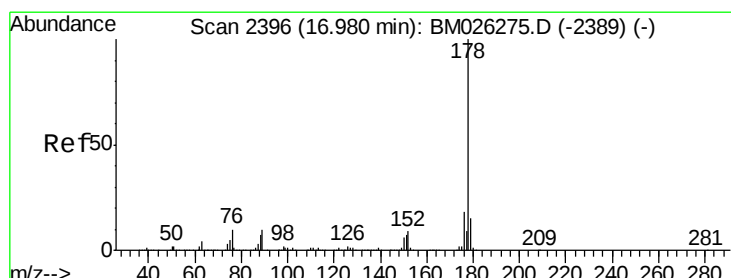
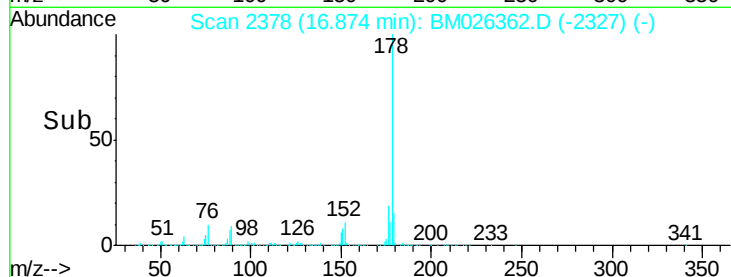
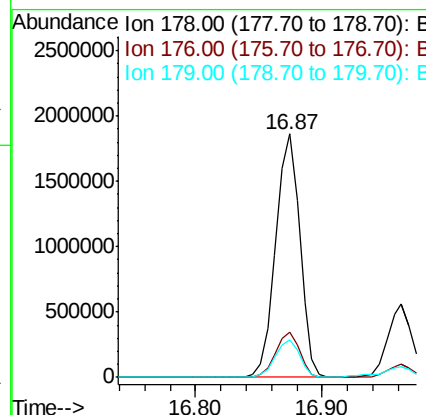
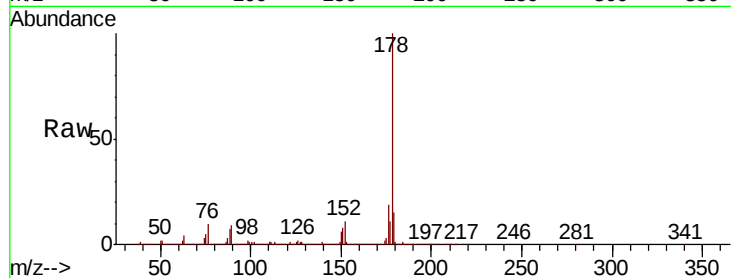
#71
Phenanthrene
Concen: 81.674 ng
RT: 16.87 min Scan# 2378
Delta R.T. -0.00 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Instrument :
BNA_M
ClientSampleId :
SU-03-061020

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.4	12.0	18.0

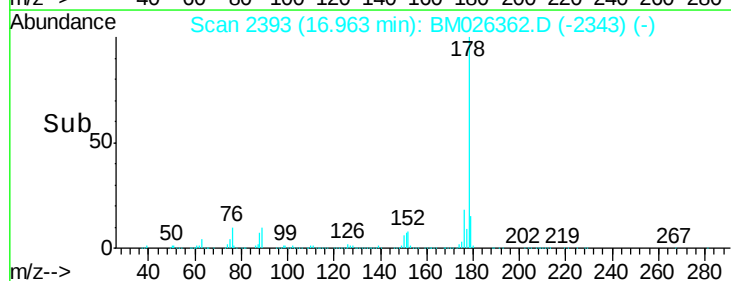
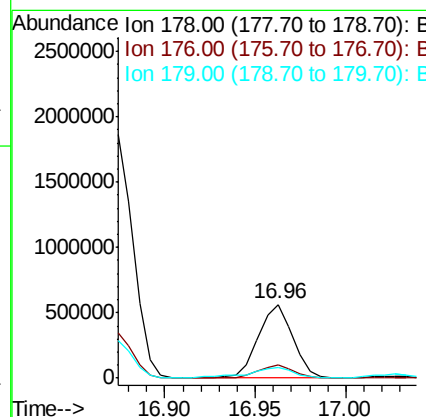
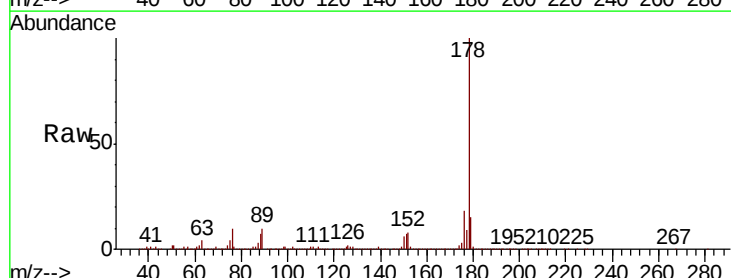
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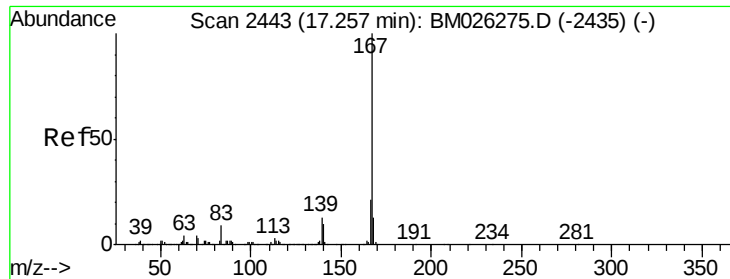
mohammad
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#72
Anthracene
Concen: 24.428 ng
RT: 16.96 min Scan# 2393
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	14.4	21.6
179	15.3	12.2	18.4





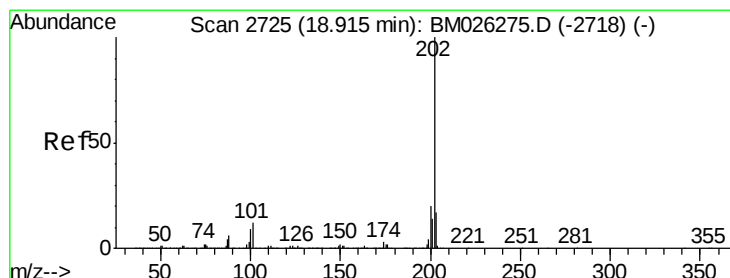
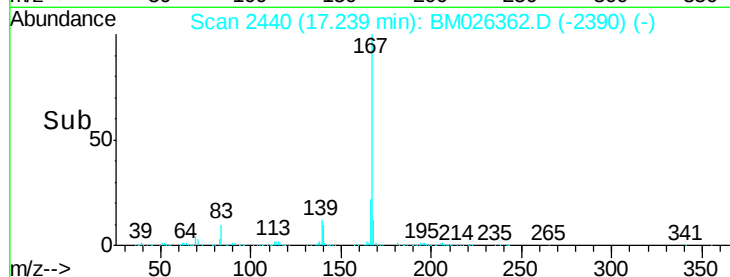
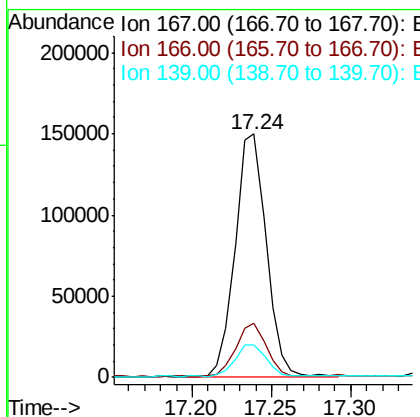
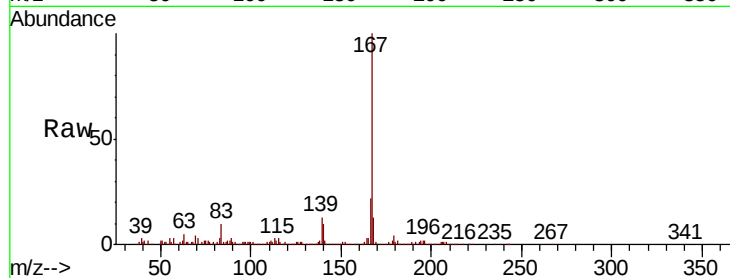
#73
 Carbazole
 Concen: 7.094 ng
 RT: 17.24 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BM026362.D
 Acq: 11 Jun 2020 18:49

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-061020

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.2	16.8	25.2
139	13.5	10.6	15.8

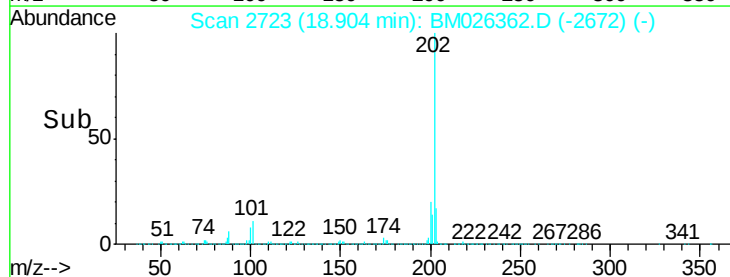
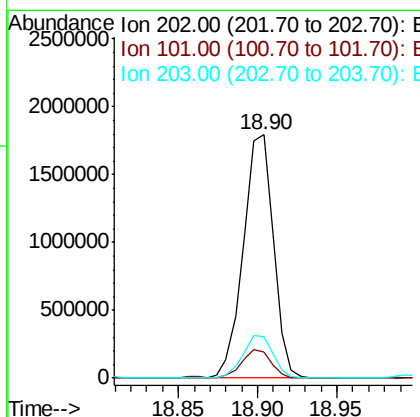
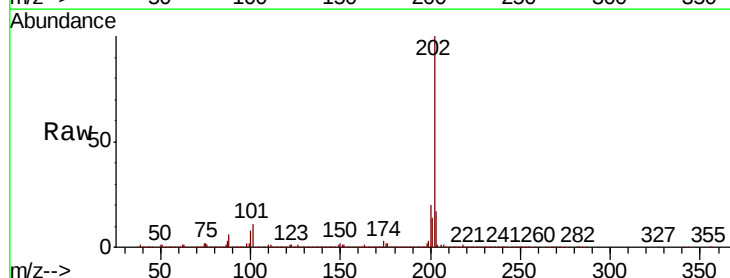
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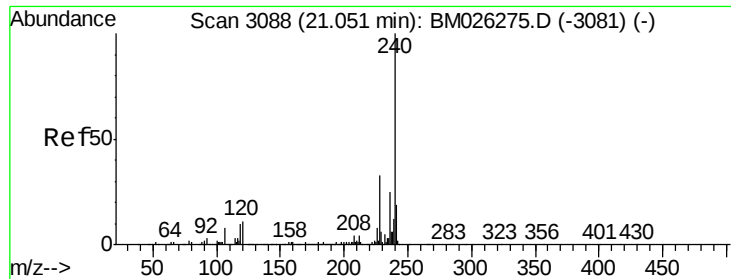
mohammad
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#75
 Fluoranthene
 Concen: 68.221 ng
 RT: 18.90 min Scan# 2723
 Delta R.T. -0.00 min
 Lab File: BM026362.D
 Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.6
203	17.3	0.0	37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.04 min Scan# 3086

Delta R.T. -0.01 min

Lab File: BM026362.D

Acq: 11 Jun 2020 18:49

Instrument :

BNA_M

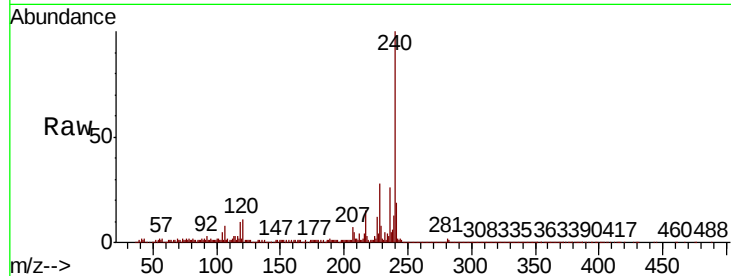
ClientSampleId :

SU-03-061020

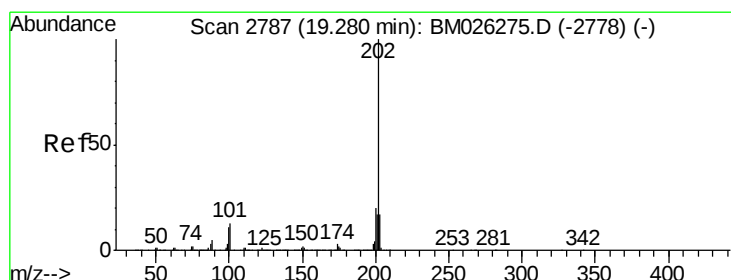
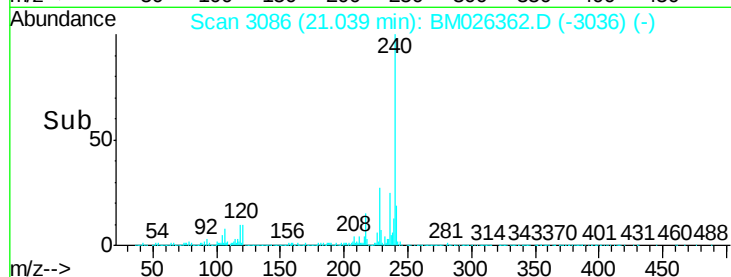
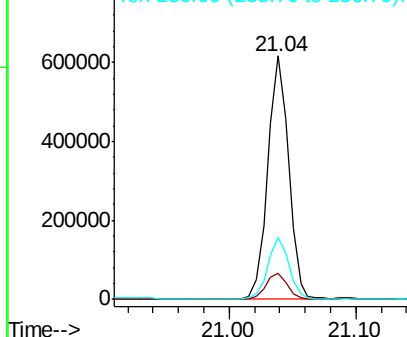
Tot Ion:	240	Resp:	706060
Ion Ratio	Lower	Upper	
240	100		
120	10.5	8.9	13.3
236	25.6	19.7	29.5

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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: 47.044 ng

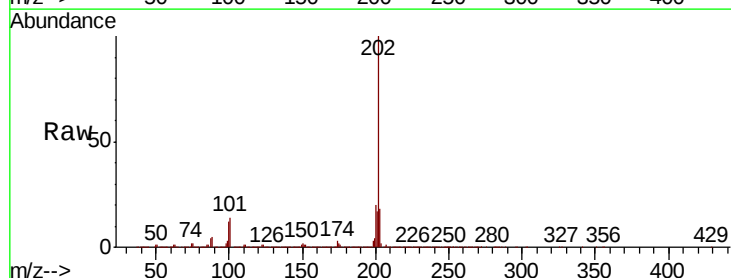
RT: 19.26 min Scan# 2784

Delta R.T. -0.01 min

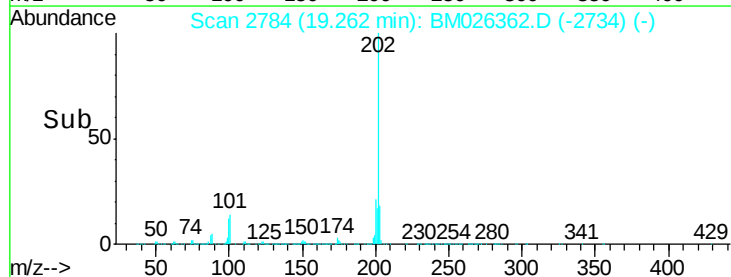
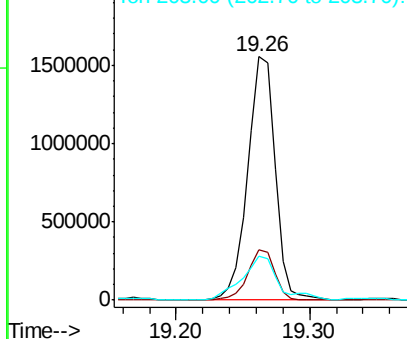
Lab File: BM026362.D

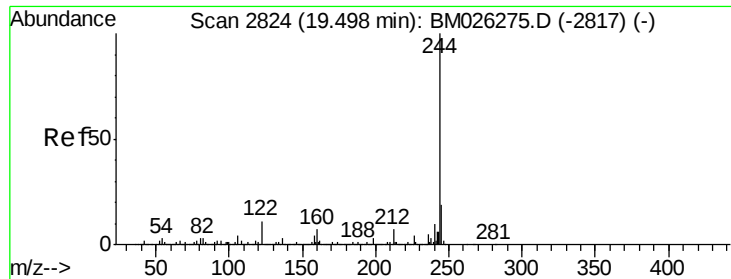
Acq: 11 Jun 2020 18:49

Tgt Ion:	202	Resp:	2194679
Ion Ratio	Lower	Upper	
202	100		
200	20.5	16.2	24.4
203	17.9	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





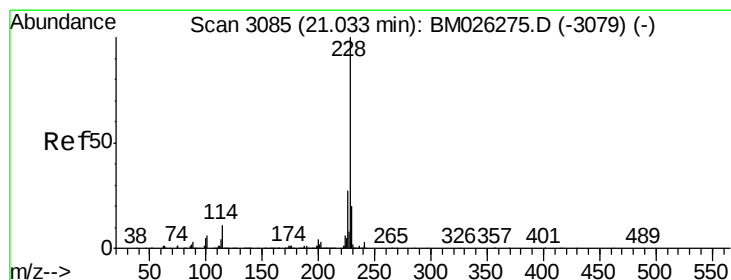
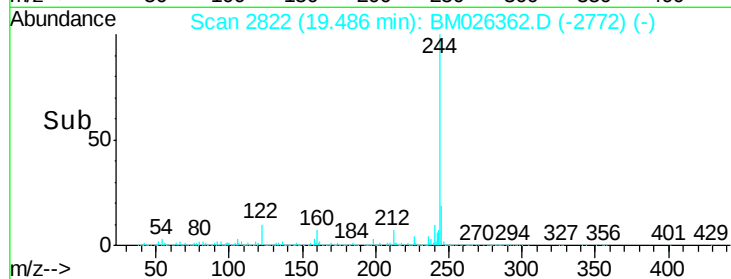
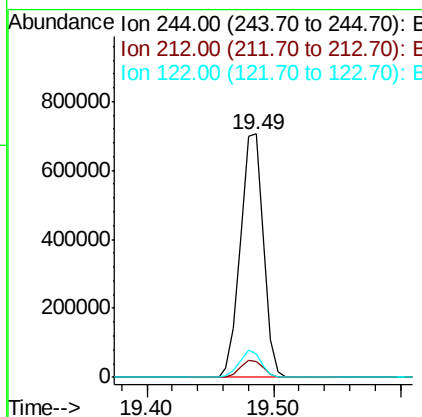
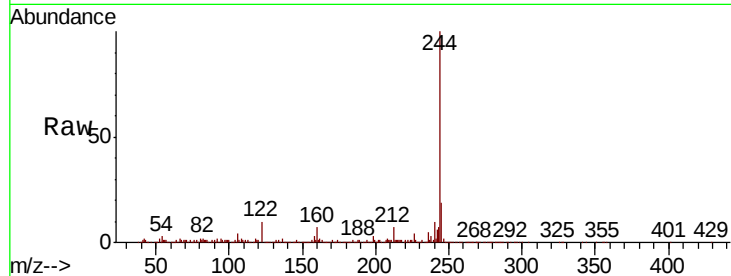
#79
 Terphenyl-d14
 Concen: 24.216 ng
 RT: 19.49 min Scan# 2822
 Delta R.T. -0.01 min
 Lab File: BM026362.D
 Acq: 11 Jun 2020 18:49

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-061020

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	9.7	9.1	13.7

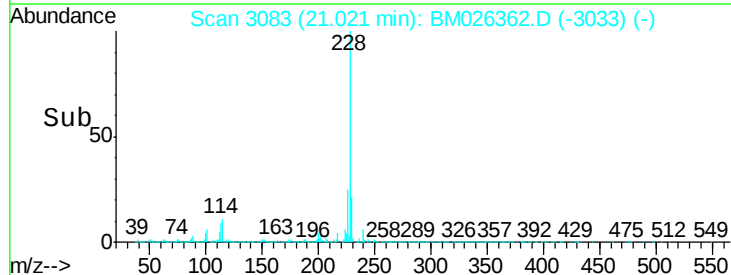
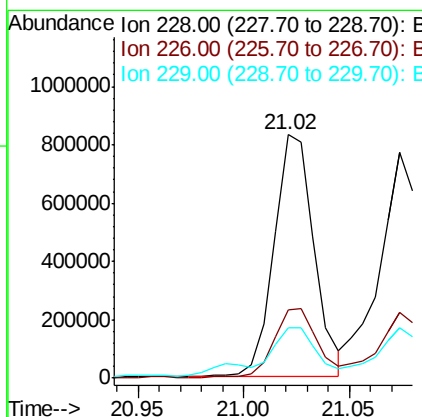
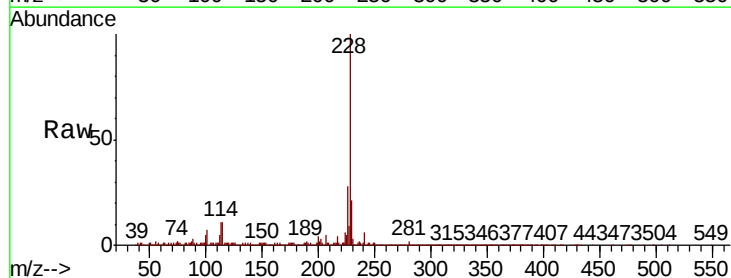
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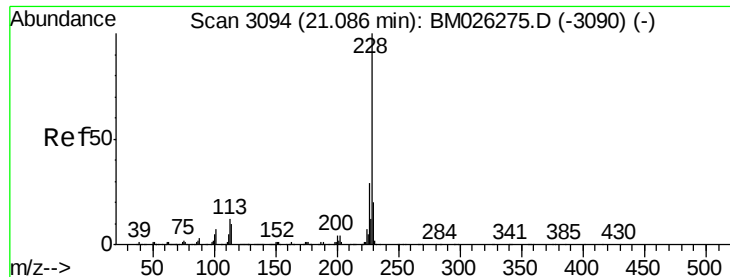
mohammad
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#81
 Benzo(a)anthracene
 Concen: 25.856 ng
 RT: 21.02 min Scan# 3083
 Delta R.T. -0.01 min
 Lab File: BM026362.D
 Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	21.7	32.5
229	20.9	15.9	23.9





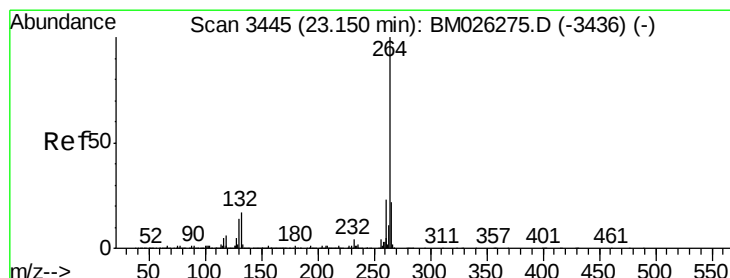
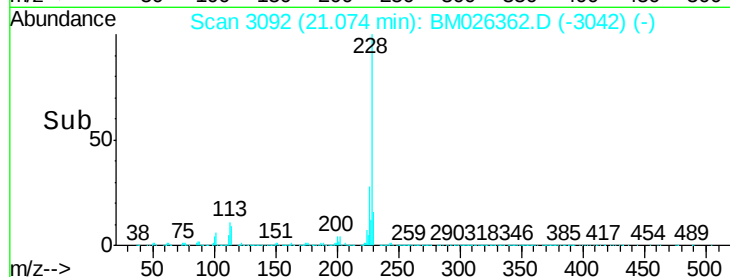
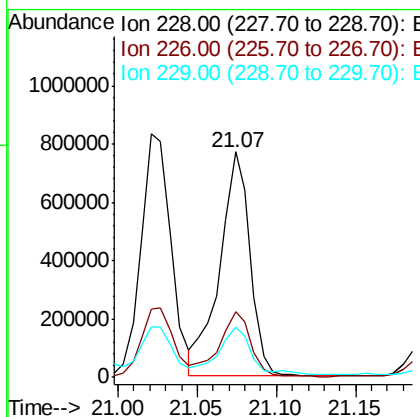
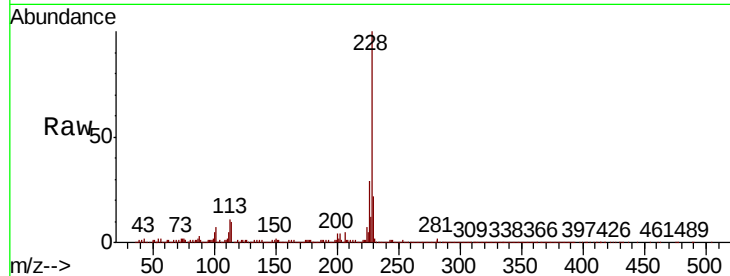
#83
Chrysene
Concen: 25.292 ng
RT: 21.07 min Scan# 3092
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Instrument :
BNA_M
ClientSampleId :
SU-03-061020

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.5	35.3
229	22.2	15.8	23.6

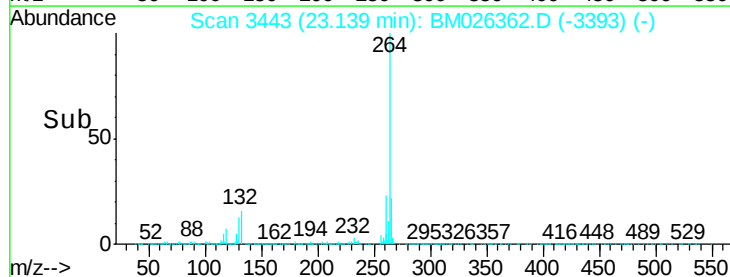
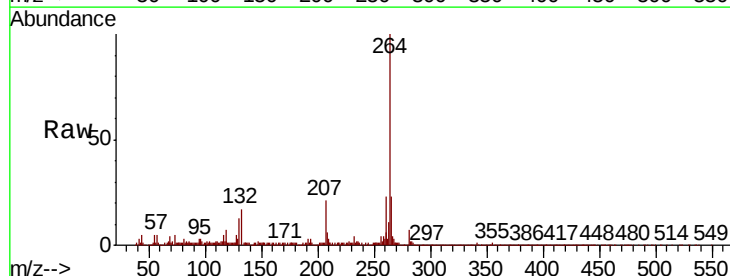
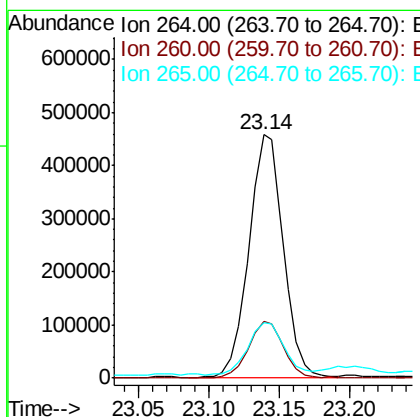
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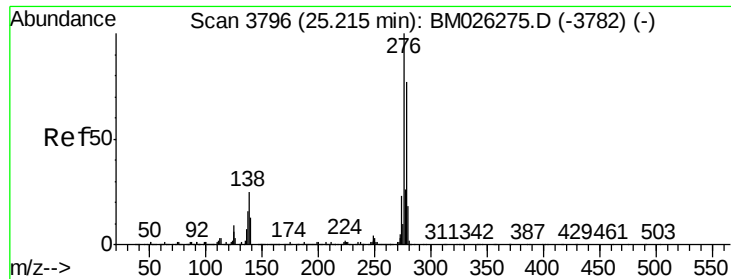
mohammad
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#86
Perylene-d12
Concen: 20.000 ng
RT: 23.14 min Scan# 3443
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	22.6	18.2	27.2





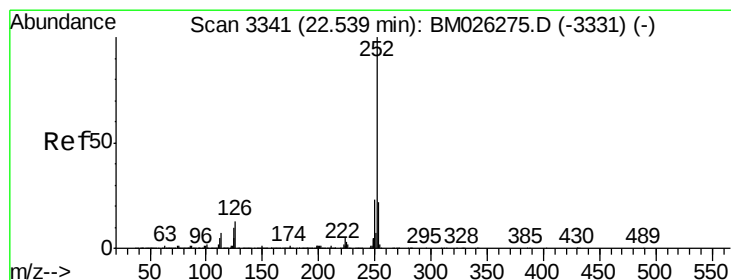
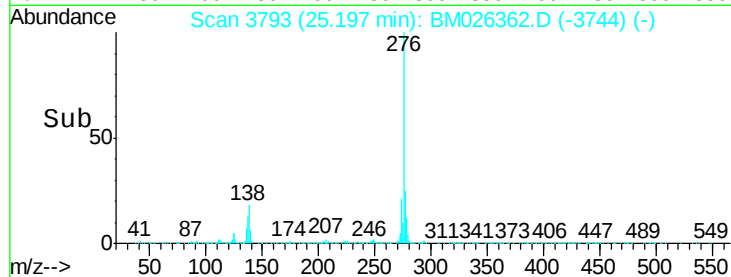
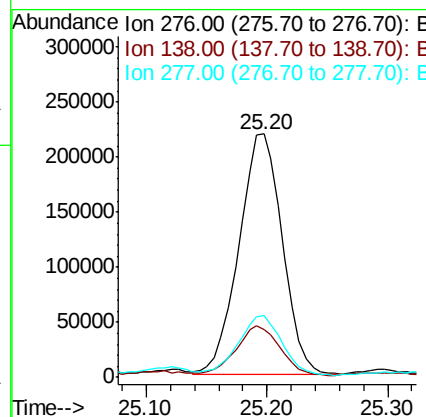
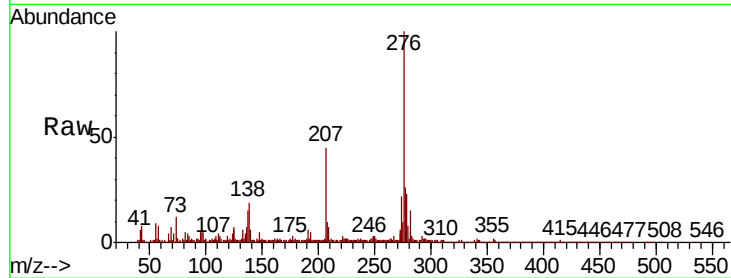
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 12.110 ng
 RT: 25.20 min Scan# 3793
 Delta R.T. -0.01 min
 Lab File: BM026362.D
 Acq: 11 Jun 2020 18:49

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-061020

Tot Ion:	276	Resp:	543835
Ion Ratio		Lower	Upper
276	100		
138	20.6	19.8	29.8
277	25.0	20.2	30.2

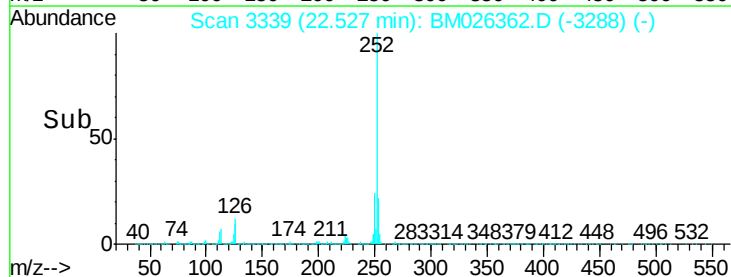
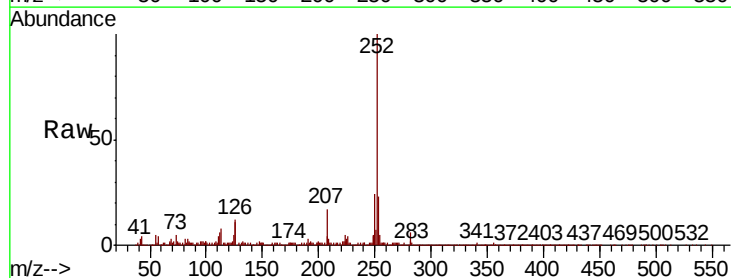
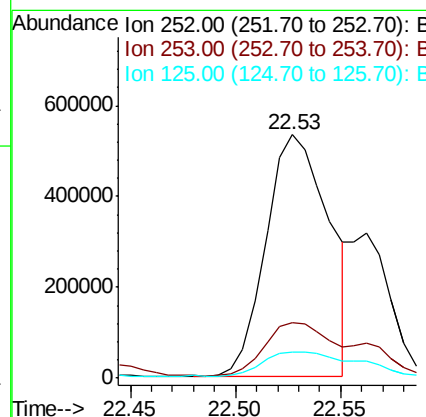
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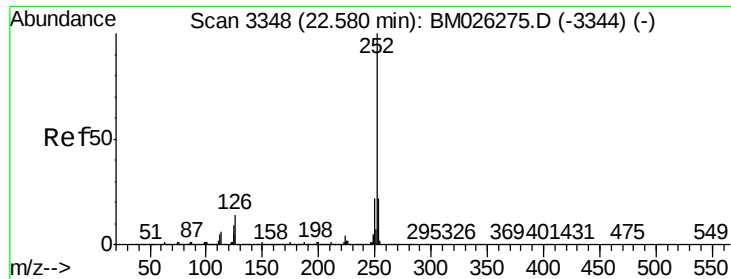
mohammad
 6/15/2020 8:43:27 AM



#88
 Benzo(b)fluoranthene
 Concen: 23.748 ng m
 RT: 22.53 min Scan# 3339
 Delta R.T. -0.00 min
 Lab File: BM026362.D
 Acq: 11 Jun 2020 18:49

Tgt Ion:	252	Resp:	1109032
Ion Ratio		Lower	Upper
252	100		
253	22.9	17.6	26.4
125	10.6	7.9	11.9





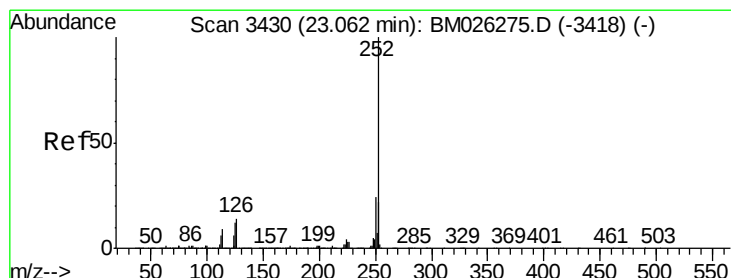
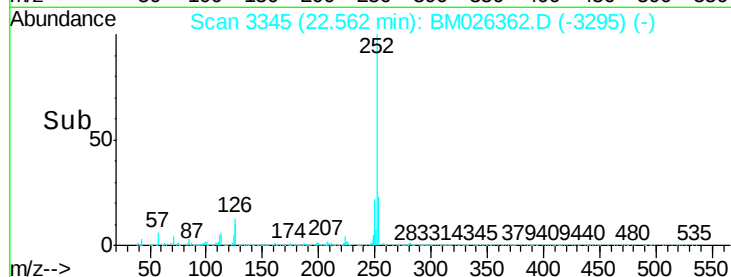
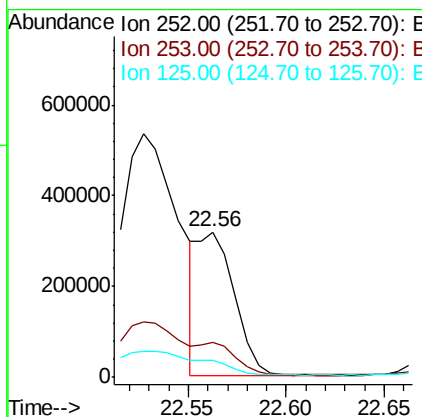
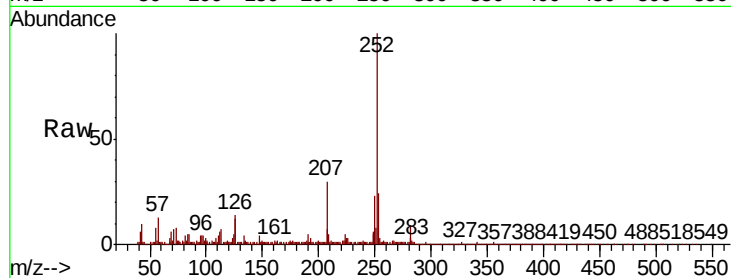
#89
Benzo(k)fluoranthene
Concen: 8.974 ng m
RT: 22.56 min Scan# 3345
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Instrument :
BNA_M
ClientSampleId :
SU-03-061020

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.3	25.9
125	11.7	7.8	11.6

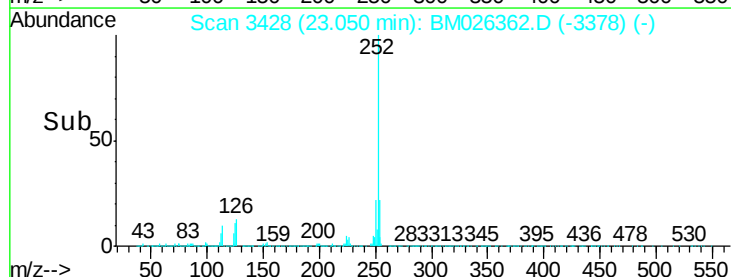
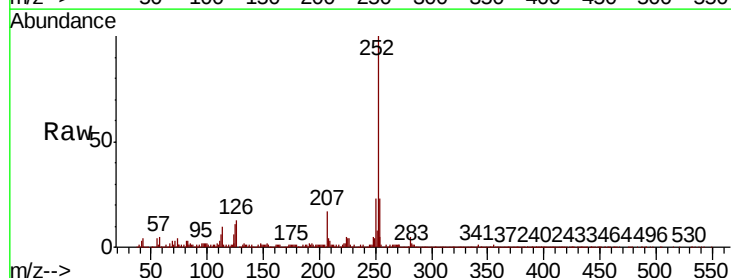
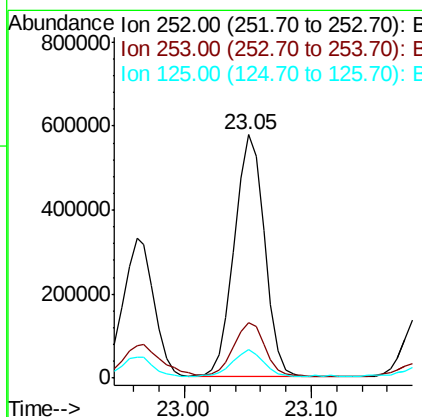
Manual Integrations
APPROVED

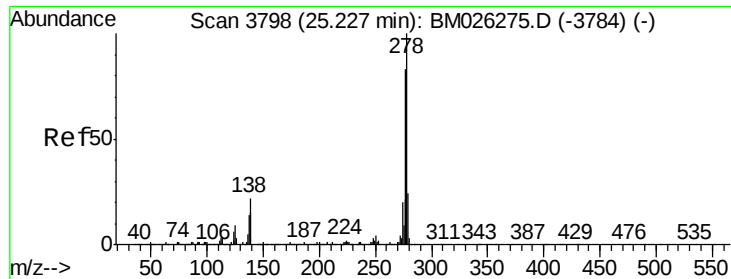
mohammad
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#90
Benzo(a)pyrene
Concen: 22.870 ng
RT: 23.05 min Scan# 3428
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	11.5	9.4	14.0





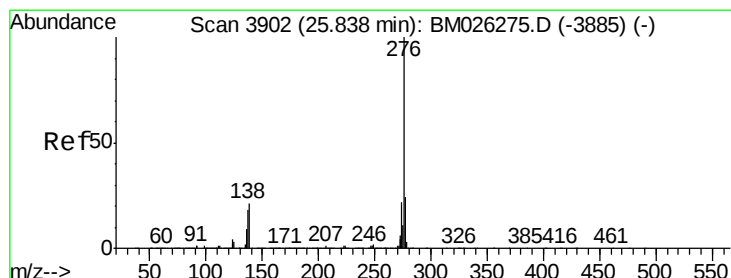
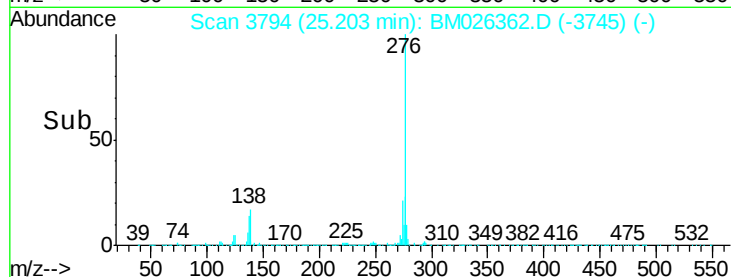
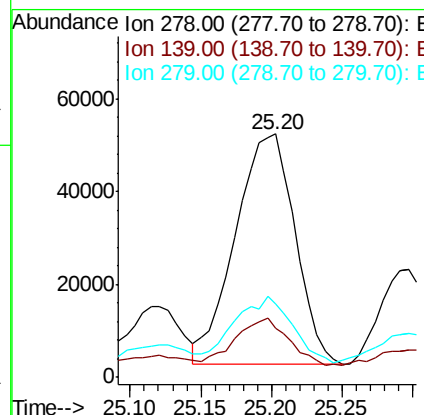
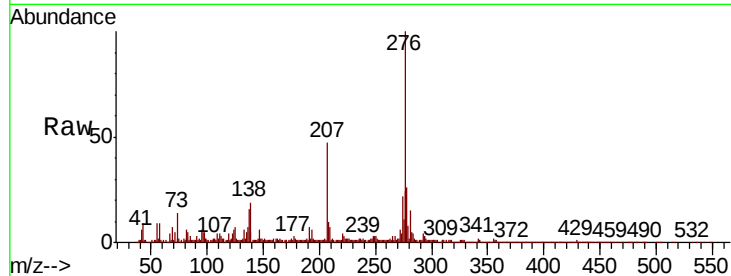
#91
Dibenzo(a,h)anthracene
Concen: 3.923 ng
RT: 25.20 min Scan# 3794
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Instrument :
BNA_M
ClientSampleId :
SU-03-061020

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.4	11.9	17.9#
279	30.3	19.0	28.4#

Manual Integrations
APPROVED

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#92
Benzo(g,h,i)perylene
Concen: 15.066 ng
RT: 25.82 min Scan# 3899
Delta R.T. -0.01 min
Lab File: BM026362.D
Acq: 11 Jun 2020 18:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.3	28.9
138	20.2	16.5	24.7

