

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052820\
 Data File : BF120422.D
 Acq On : 28 May 2020 21:55
 Operator : MA/SJ
 Sample : L2746-17
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NM93-COMP-2020-0-6

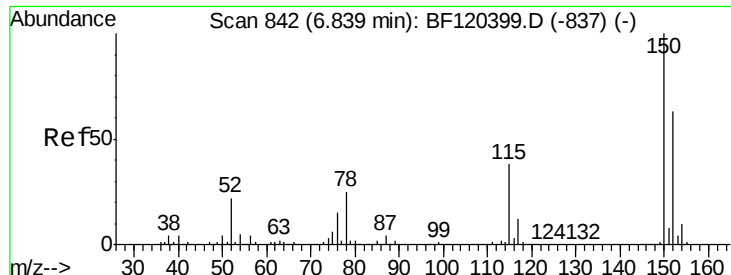
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Quant Time: May 29 05:19:59 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 28 13:47:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	253095	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	891005	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	414005	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	697446	20.00	ng	0.00
76) Chrysene-d12	14.00	240	543923	20.00	ng	0.00
86) Perylene-d12	15.45	264	526913	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	1389520	104.63	ng	0.00
7) Phenol-d6	6.47	99	1704713	104.14	ng	0.00
23) Nitrobenzene-d5	7.40	82	1086447	79.76	ng	0.00
42) 2,4,6-Tribromophenol	10.66	330	413039	107.68	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	1915544	78.50	ng	0.00
79) Terphenyl-d14	12.95	244	1847579	75.59	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.15	128	100311	2.563	ng	98
37) 2-Methylnaphthalene	8.83	142	82584	3.186	ng	98
38) 1-Methylnaphthalene	8.93	142	74680	3.052	ng	99
50) Dimethylphthalate	9.59	163	248911	9.617	ng	99
52) Acenaphthene	9.91	154	190952	8.841	ng	99
55) Dibenzofuran	10.08	168	211838	6.749	ng	97
58) Fluorene	10.42	166	191064	8.112	ng	100
71) Phenanthrene	11.39	178	1765967	57.464	ng	100
72) Anthracene	11.43	178	589772	19.127	ng	99
73) Carbazole	11.59	167	129879	4.355	ng	99
75) Fluoranthene	12.57	202	1804172	54.560	ng	99
78) Pyrene	12.80	202	1543945	40.816	ng	99
81) Benzo(a)anthracene	13.99	228	826100	28.338	ng	99
83) Chrysene	14.02	228	692276	22.652	ng	97
87) Indeno(1,2,3-cd)pyrene	16.89	276	274433	9.523	ng	94
88) Benzo(b)fluoranthene	15.03	252	798927m	27.299	ng	
89) Benzo(k)fluoranthene	15.06	252	194294m	7.111	ng	
90) Benzo(a)pyrene	15.39	252	524450	20.487	ng	98
91) Dibenzo(a,h)anthracene	16.90	278	73690m	3.136	ng	
92) Benzo(a,h,i)perylene	17.33	276	230783	9.959	ng	98

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



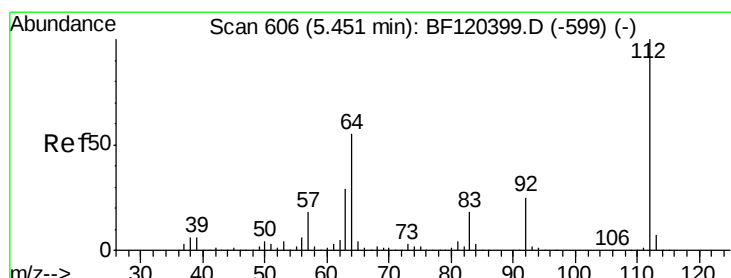
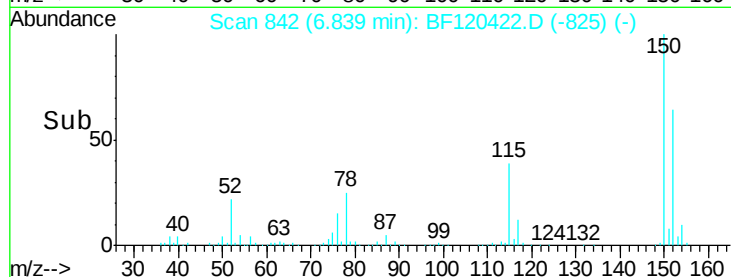
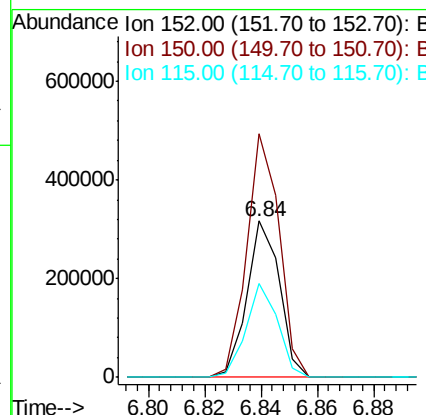
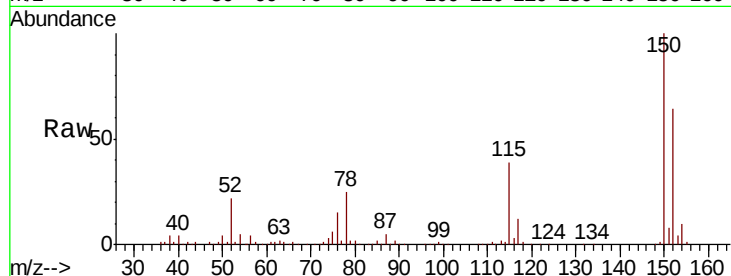
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.84 min Scan# 842
 Delta R.T. -0.00 min
 Lab File: BF120422.D
 Acq: 28 May 2020 21:55

Instrument :
 BNA_F
 ClientSampleId :
 NM93-COMP-2020-0-6

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	126.5	189.7
115	60.4	47.6	71.4

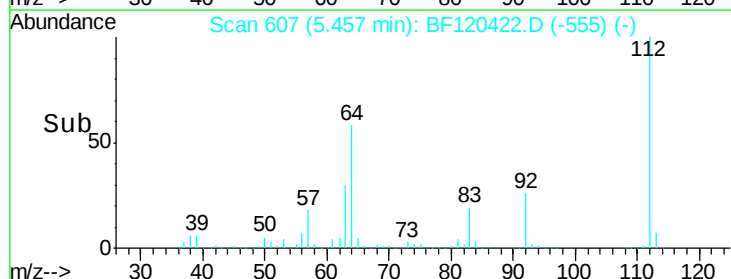
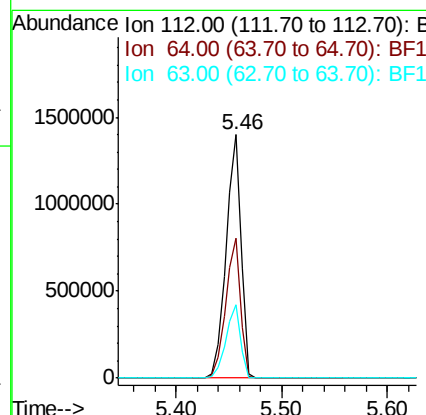
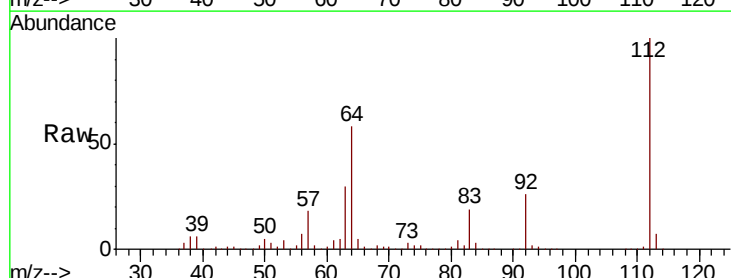
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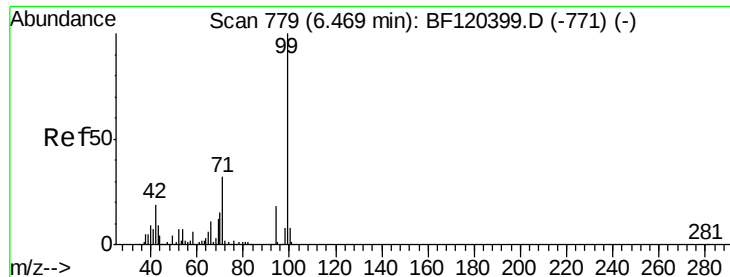
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#5
 2-Fluorophenol
 Concen: 104.628 ng
 RT: 5.46 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: BF120422.D
 Acq: 28 May 2020 21:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.7	44.3	66.5
63	30.0	22.9	34.3





#7

Phenol-d6

Concen: 104.141 ng

RT: 6.47 min Scan# 779

Delta R.T. -0.00 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

Instrument :

BNA_F

ClientSampleId :

NM93-COMP-2020-0-6

Tot Ion: 99 Resp: 1704713

Ion Ratio Lower Upper

99 100

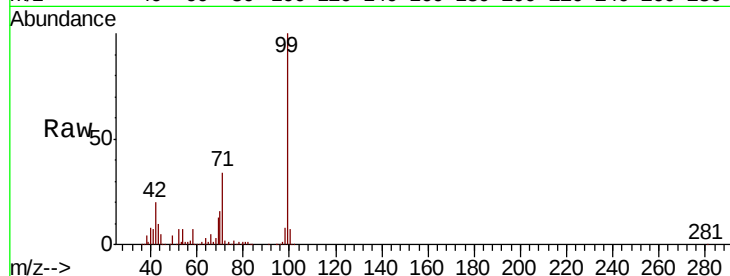
42 19.7 15.2 22.8

71 34.1 25.6 38.4

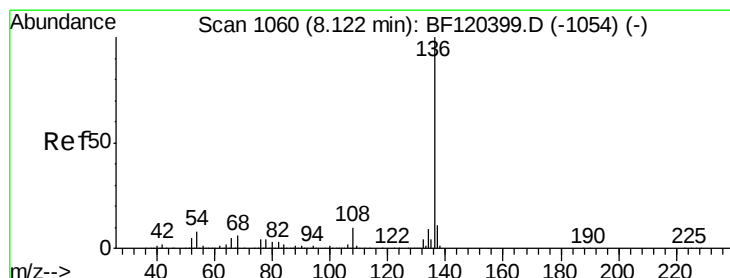
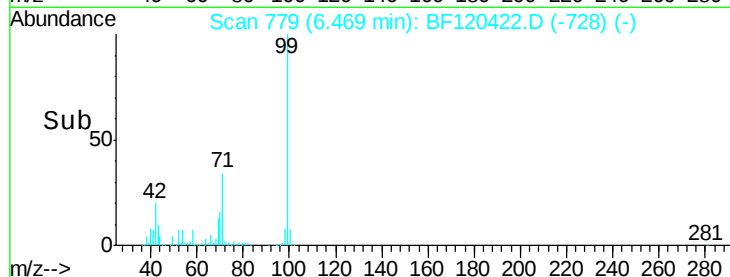
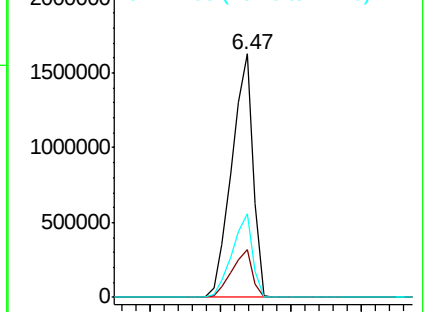
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1060

Delta R.T. -0.00 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

Tgt Ion: 136 Resp: 891005

Ion Ratio Lower Upper

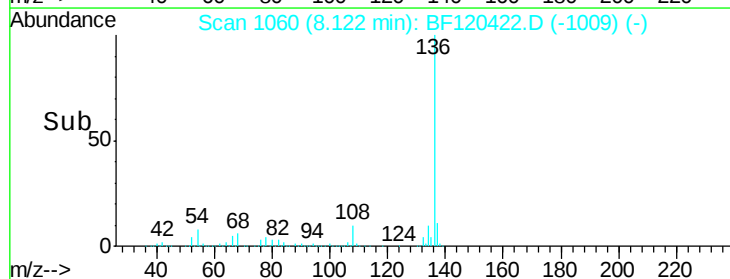
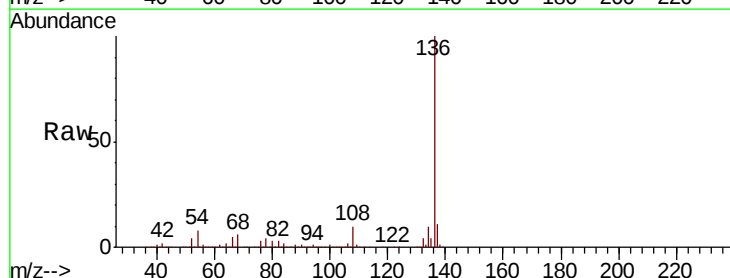
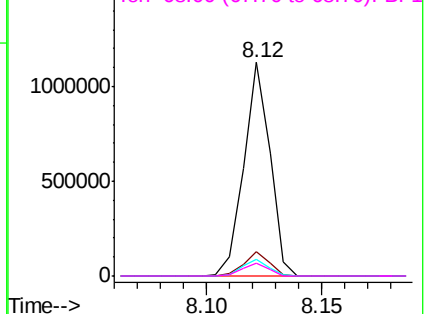
136 100

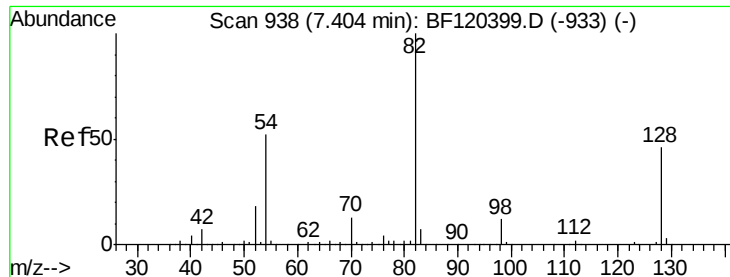
137 11.3 9.1 13.7

54 8.1 6.7 10.1

68 6.2 5.0 7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 79.762 ng

RT: 7.40 min Scan# 938

Delta R.T. -0.00 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

Instrument :

BNA_F

ClientSampleId :

NM93-COMP-2020-0-6

Tot Ion: 82 Resp: 1086447

Ion Ratio Lower Upper

82 100

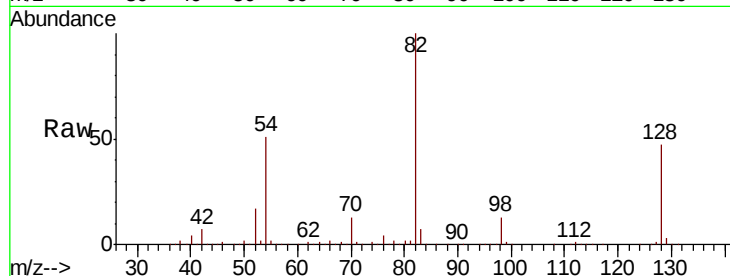
128 47.3 36.8 55.2

54 51.1 41.6 62.4

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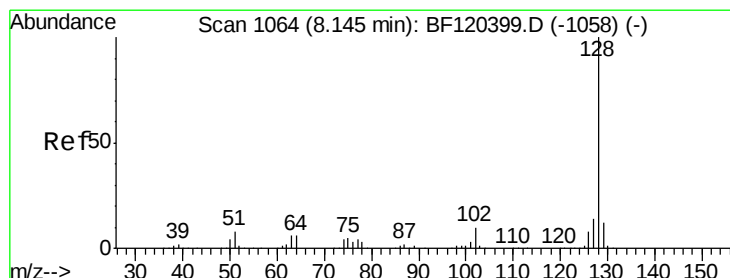
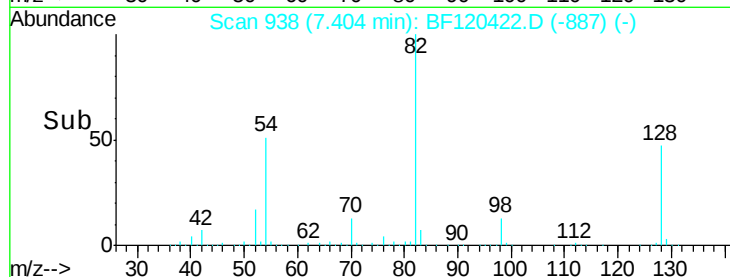
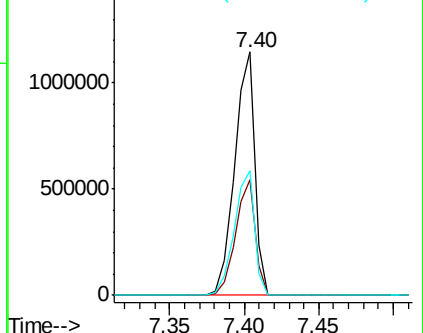
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Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 2.563 ng

RT: 8.15 min Scan# 1064

Delta R.T. -0.00 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

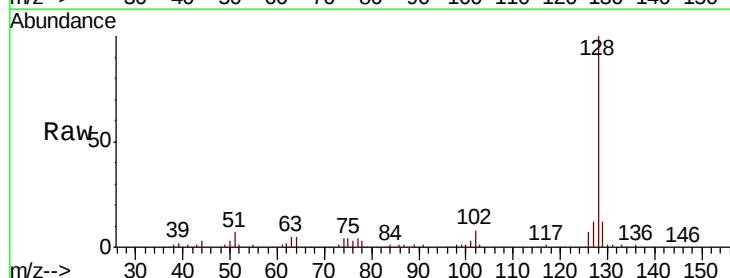
Tgt Ion: 128 Resp: 100311

Ion Ratio Lower Upper

128 100

129 12.1 9.7 14.5

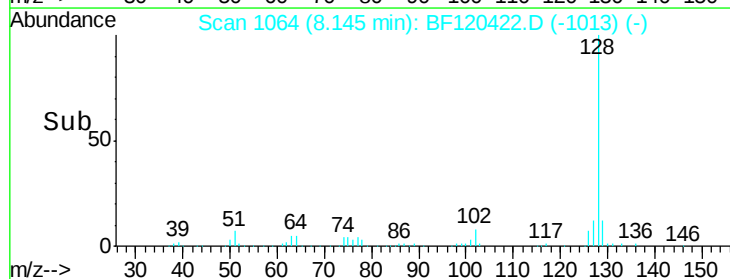
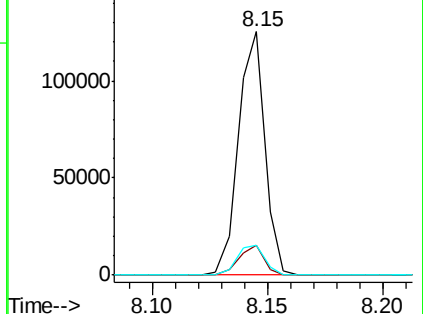
127 12.2 11.0 16.6

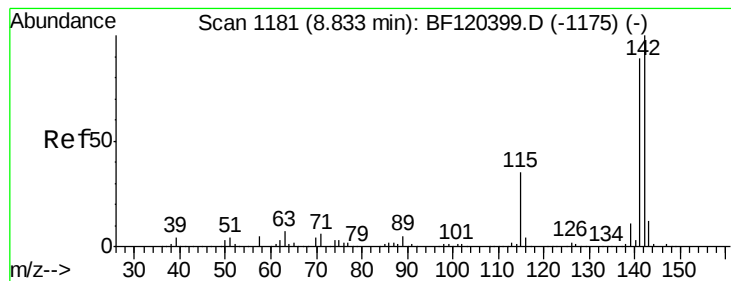


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





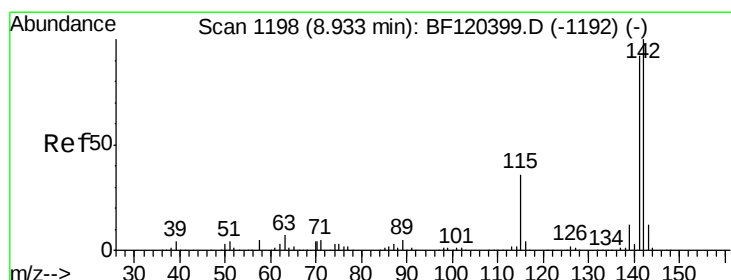
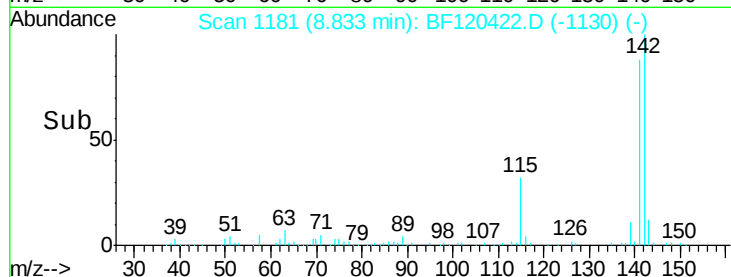
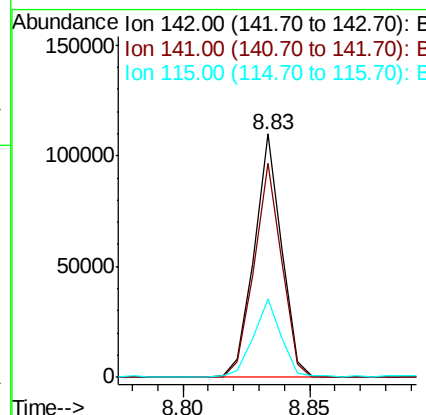
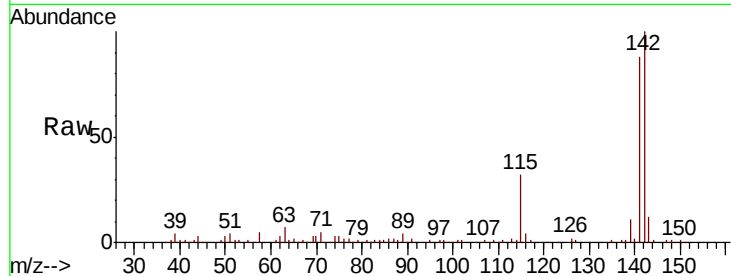
#37
2-Methylnaphthalene
Concen: 3.186 ng
RT: 8.83 min Scan# 1181
Delta R.T. -0.00 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Instrument :
BNA_F
ClientSampleId :
NM93-COMP-2020-0-6

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.4	107.0
115	32.4	27.8	41.8

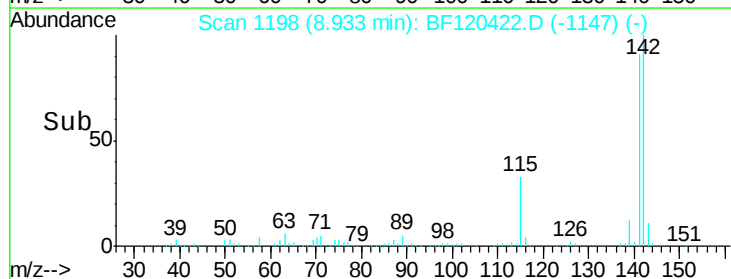
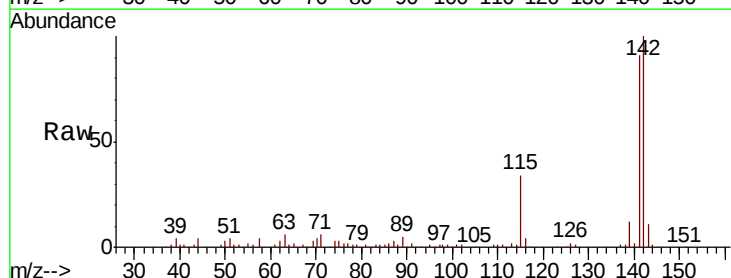
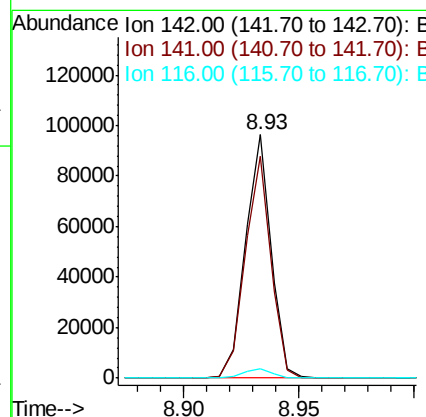
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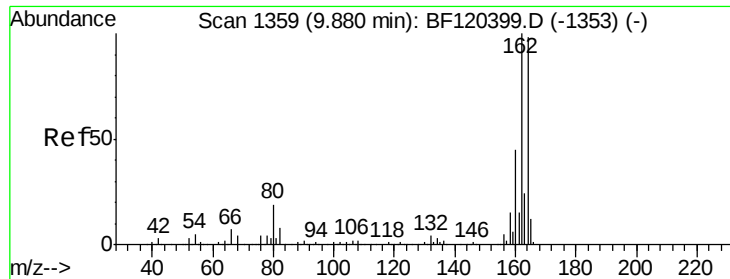
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#38
1-Methylnaphthalene
Concen: 3.052 ng
RT: 8.93 min Scan# 1198
Delta R.T. -0.00 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.9	110.9
116	3.6	3.1	4.7





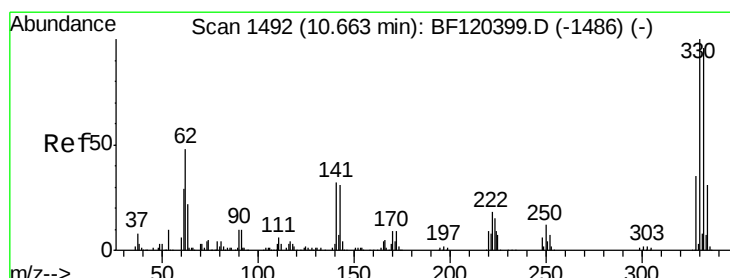
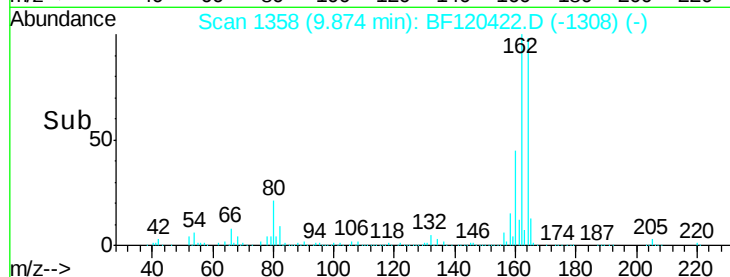
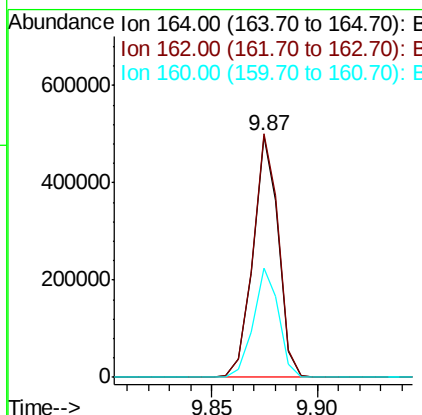
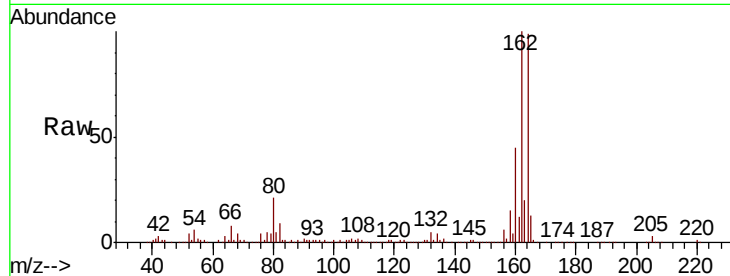
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1358
Delta R.T. -0.01 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Instrument :
BNA_F
ClientSampleId :
NM93-COMP-2020-0-6

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.0	81.3	121.9	
160	45.2	36.9	55.3	

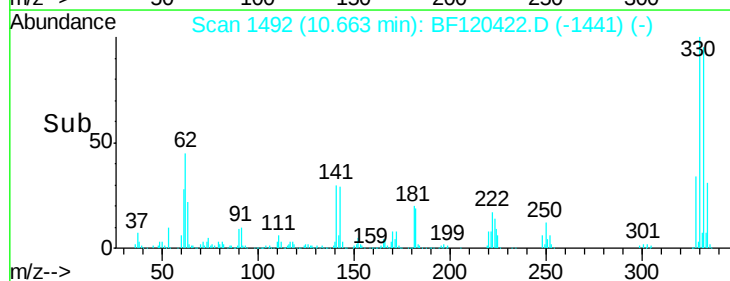
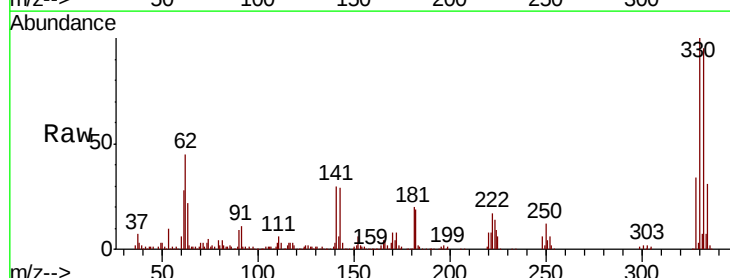
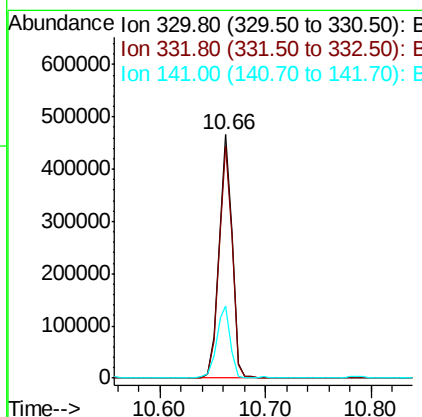
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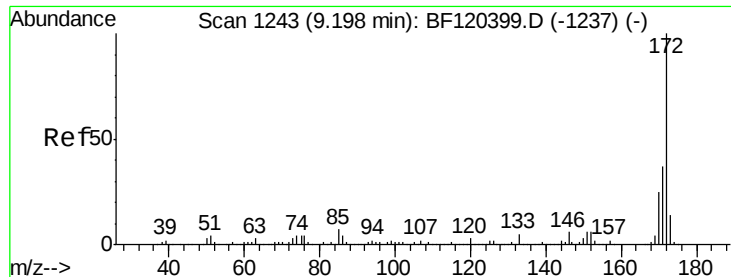
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#42
2,4,6-Tribromophenol
Concen: 107.676 ng
RT: 10.66 min Scan# 1492
Delta R.T. -0.00 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.0	77.0	115.6	
141	30.6	25.3	37.9	





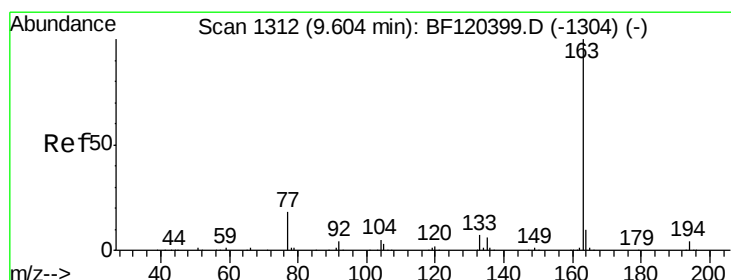
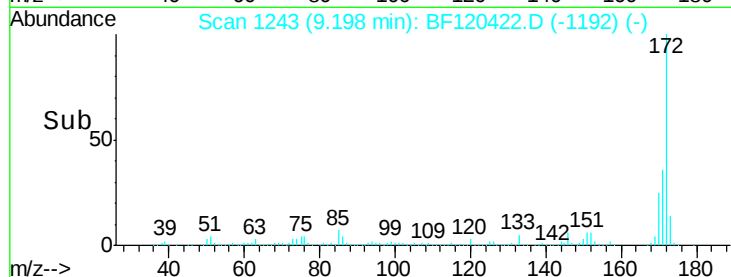
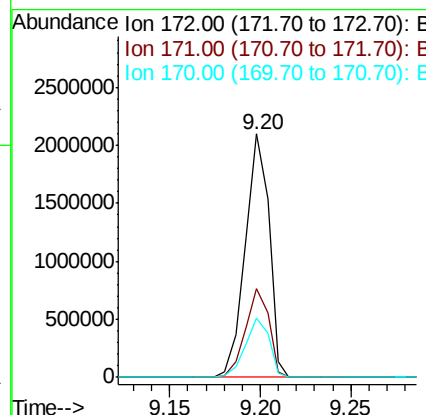
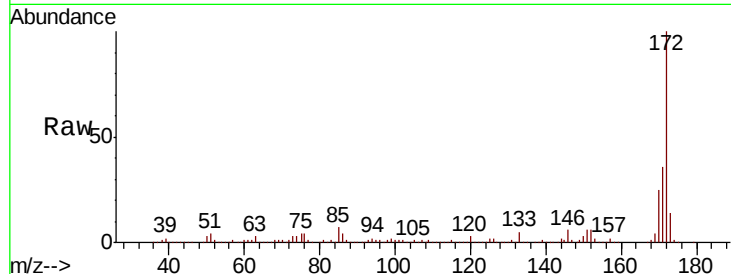
#45
2-Fluorobiphenyl
Concen: 78.504 ng
RT: 9.20 min Scan# 1243
Delta R.T. -0.00 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Instrument :
BNA_F
ClientSampleId :
NM93-COMP-2020-0-6

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.7	44.5
170	24.5	19.9	29.9

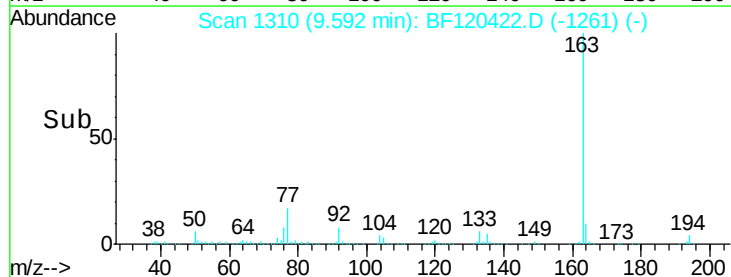
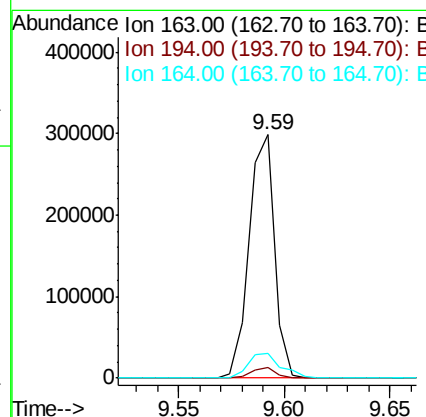
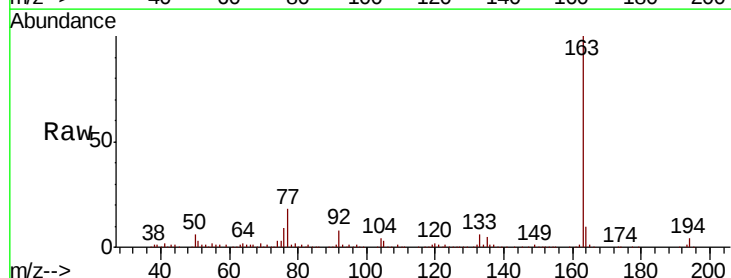
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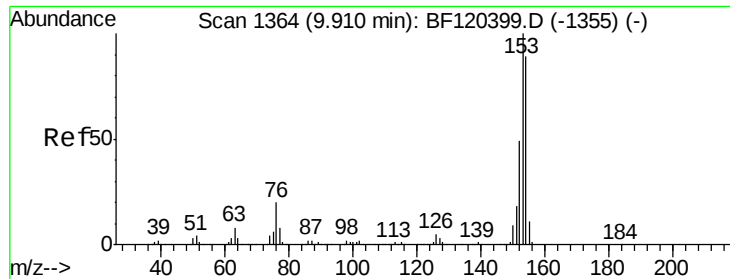
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#50
Dimethylphthalate
Concen: 9.617 ng
RT: 9.59 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.3	4.9
164	10.2	8.3	12.5





#52

Acenaphthene

Concen: 8.841 ng

RT: 9.91 min Scan# 1364

Delta R.T. -0.00 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

Instrument :

BNA_F

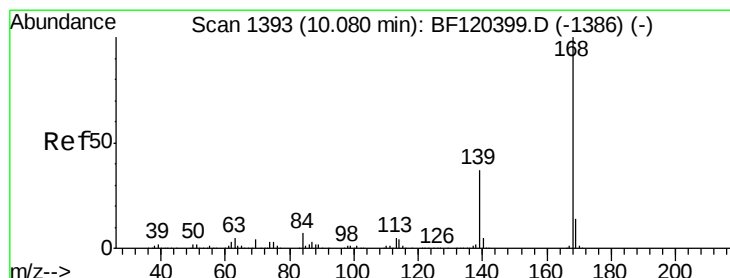
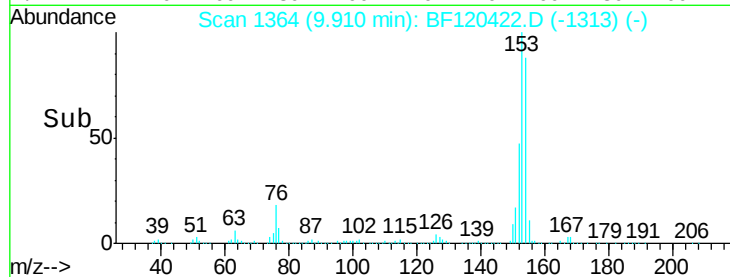
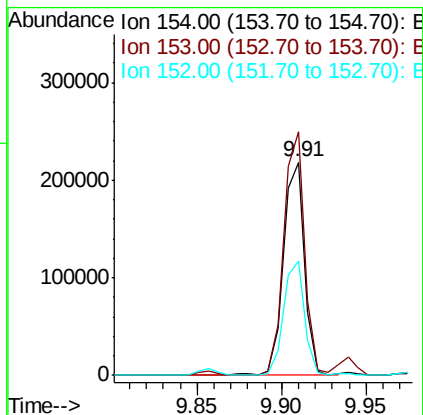
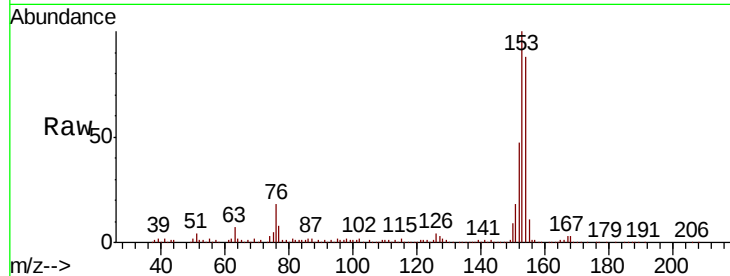
ClientSampleId :

NM93-COMP-2020-0-6

Tot Ion:	154	Resp:	190952
Ion Ratio	Lower	Upper	
154	100		
153	114.1	90.0	135.0
152	53.8	43.9	65.9

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#55

Dibenzofuran

Concen: 6.749 ng

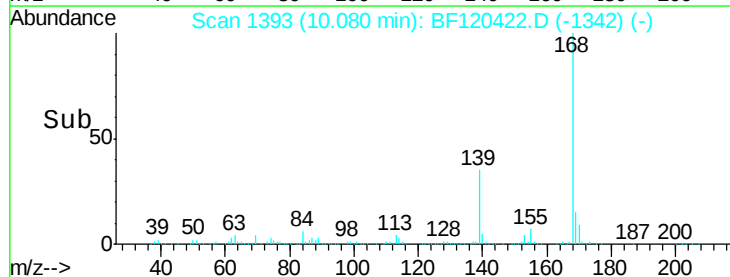
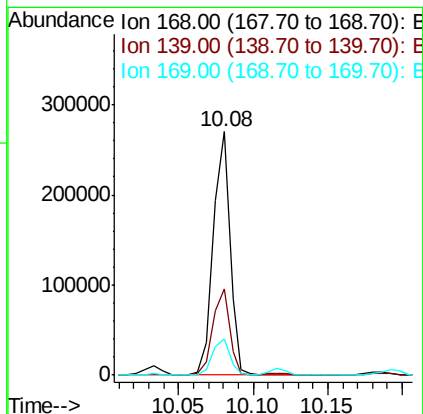
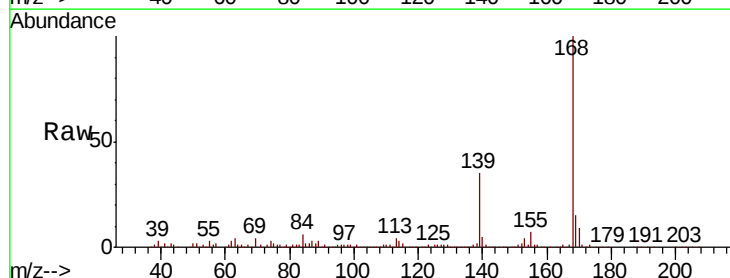
RT: 10.08 min Scan# 1393

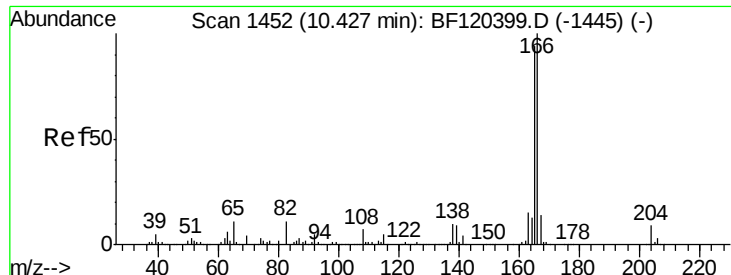
Delta R.T. -0.00 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

Tgt Ion:	168	Resp:	211838
Ion Ratio	Lower	Upper	
168	100		
139	35.2	30.0	45.0
169	14.7	11.5	17.3





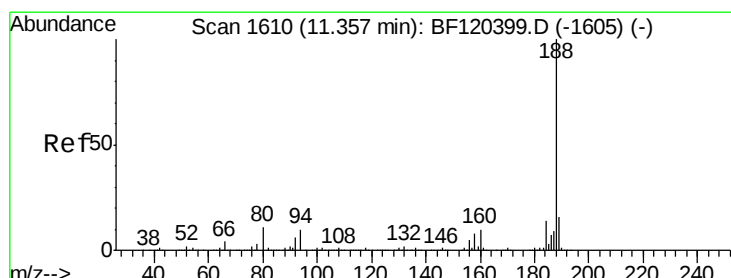
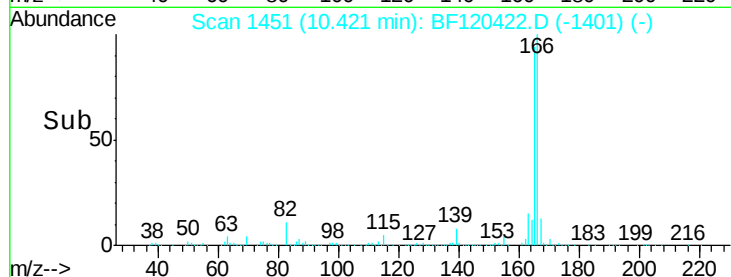
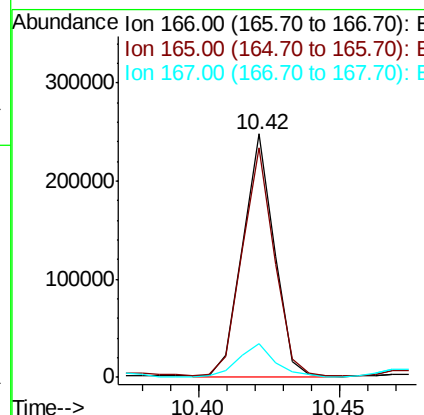
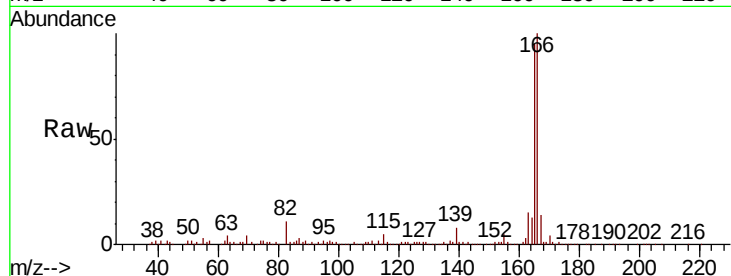
#58
 Fluorene
 Concen: 8.112 ng
 RT: 10.42 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: BF120422.D
 Acq: 28 May 2020 21:55

Instrument :
 BNA_F
 ClientSampleId :
 NM93-COMP-2020-0-6

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		191064		
165	94.5	75.6	113.4		
167	13.8	10.9	16.3		

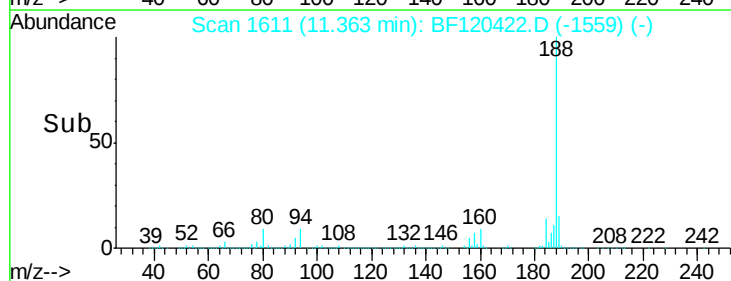
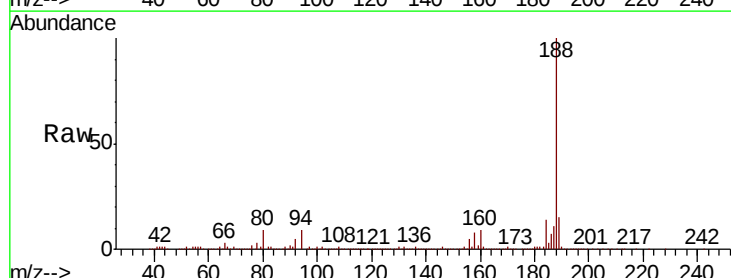
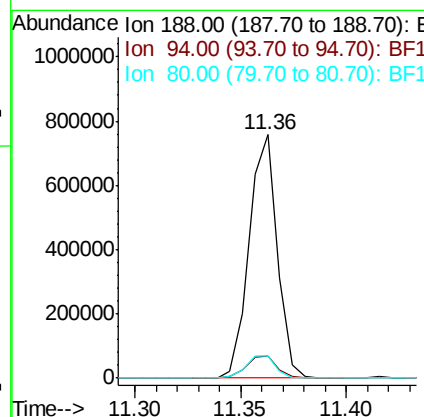
Manual Integrations
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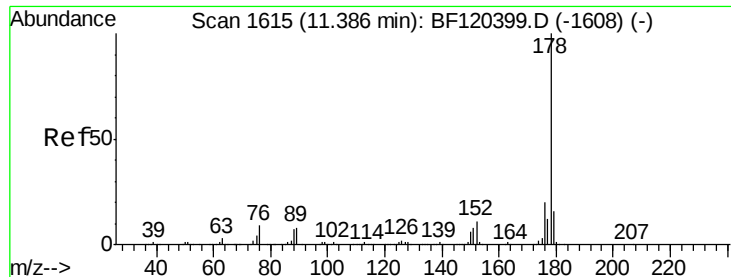
mohammad
 5/29/2020 10:28:32 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1611
 Delta R.T. 0.01 min
 Lab File: BF120422.D
 Acq: 28 May 2020 21:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		697446		
94	8.9	7.9	11.9		
80	9.2	8.6	13.0		





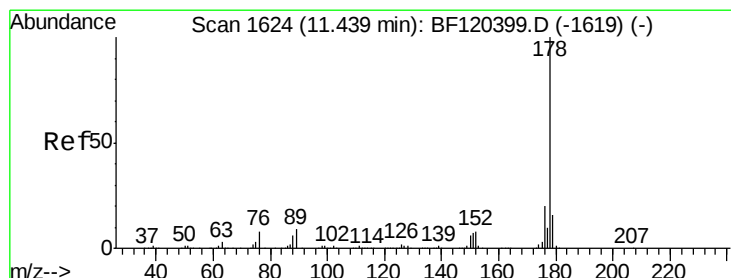
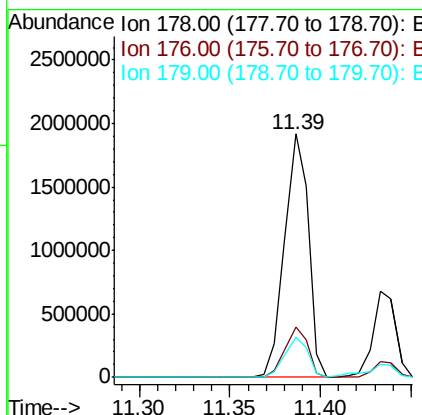
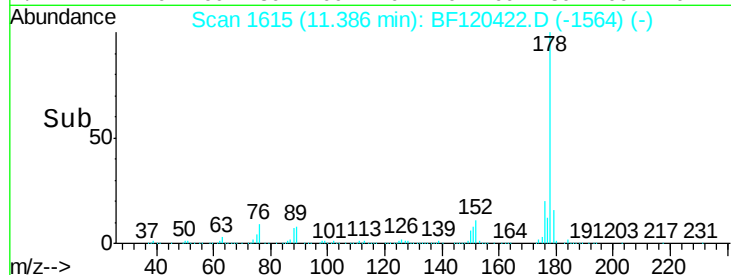
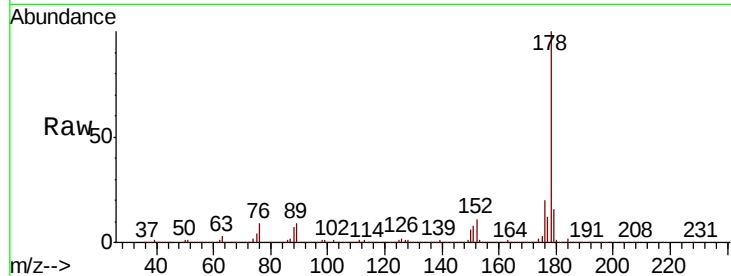
#71
Phenanthrene
Concen: 57.464 ng
RT: 11.39 min Scan# 1615
Delta R.T. -0.00 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Instrument :
BNA_F
ClientSampleId :
NM93-COMP-2020-0-6

Tot Ion:178 Resp: 1765967
Ion Ratio Lower Upper
178 100
176 20.5 16.4 24.6
179 16.3 13.0 19.4

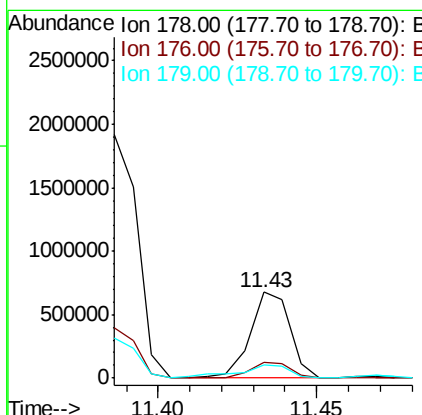
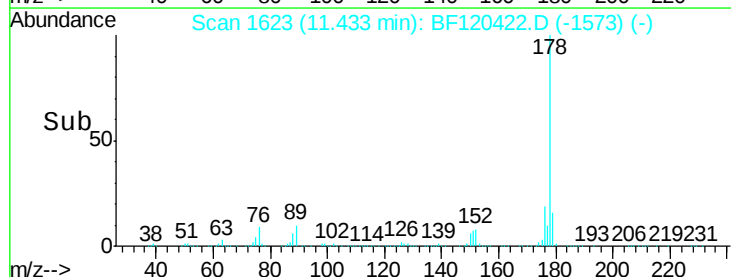
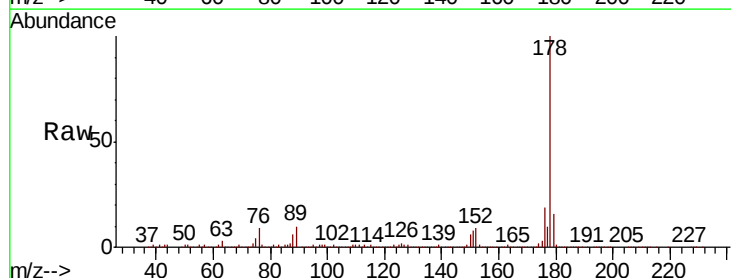
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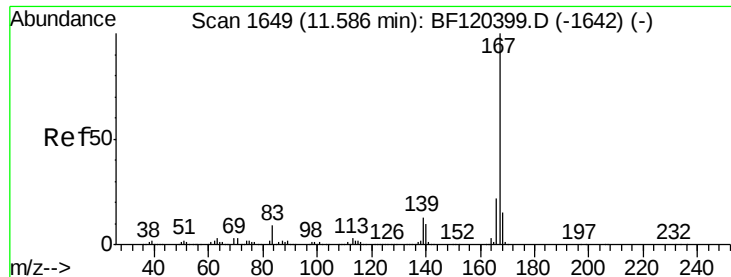
mohammad
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#72
Anthracene
Concen: 19.127 ng
RT: 11.43 min Scan# 1623
Delta R.T. -0.01 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Tgt Ion:178 Resp: 589772
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.6
179 16.0 12.8 19.2





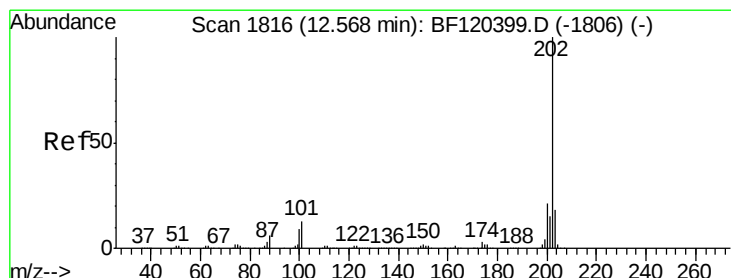
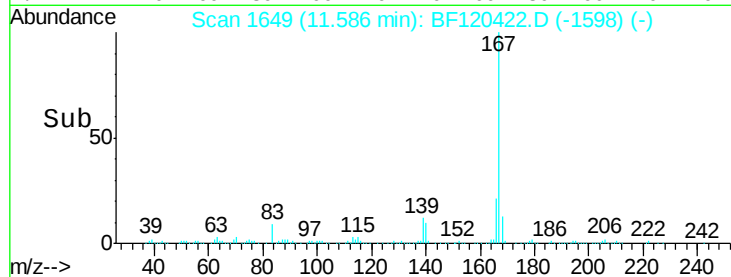
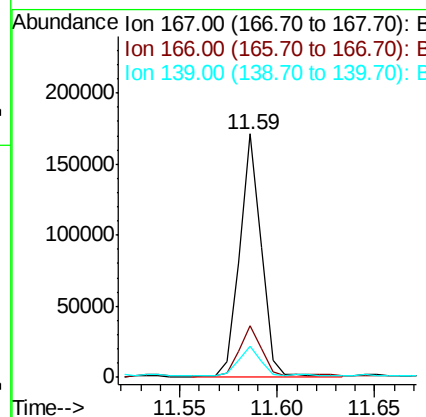
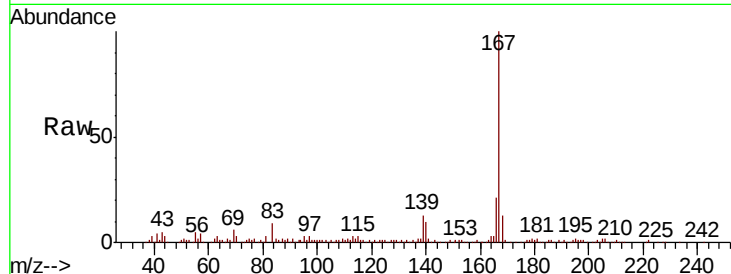
#73
 Carbazole
 Concen: 4.355 ng
 RT: 11.59 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: BF120422.D
 Acq: 28 May 2020 21:55

Instrument :
 BNA_F
 ClientSampleId :
 NM93-COMP-2020-0-6

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100				
166	21.4		17.8	26.6	
139	12.5		10.4	15.6	

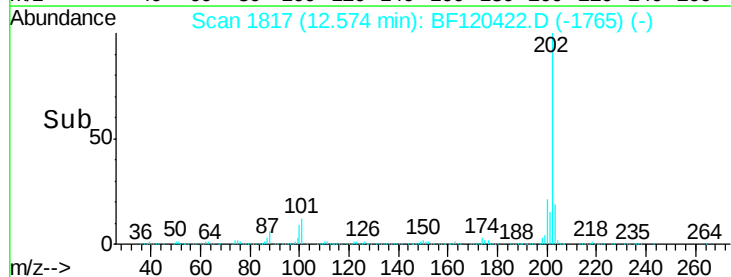
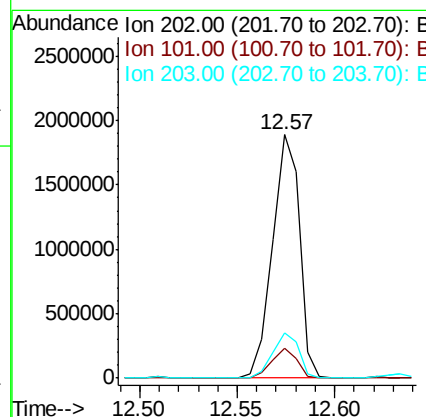
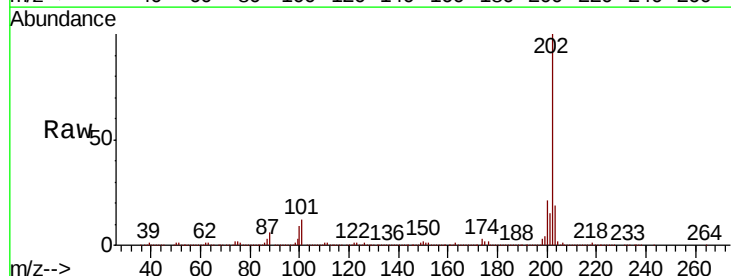
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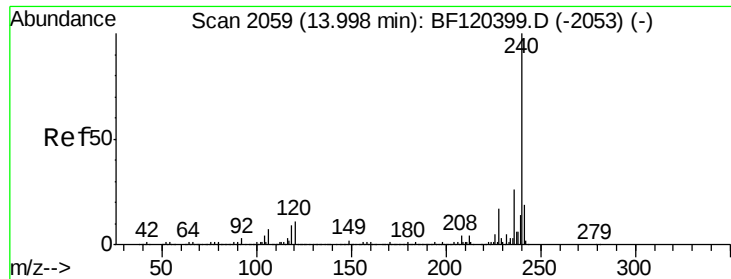
mohammad
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#75
 Fluoranthene
 Concen: 54.560 ng
 RT: 12.57 min Scan# 1817
 Delta R.T. 0.01 min
 Lab File: BF120422.D
 Acq: 28 May 2020 21:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	12.1		0.0	32.6	
203	18.7		0.0	38.4	





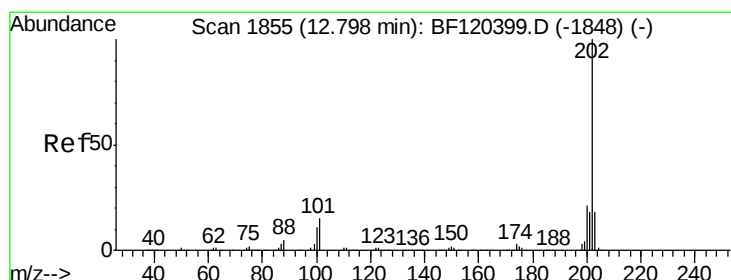
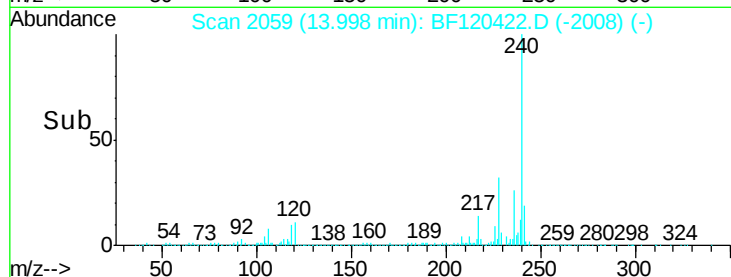
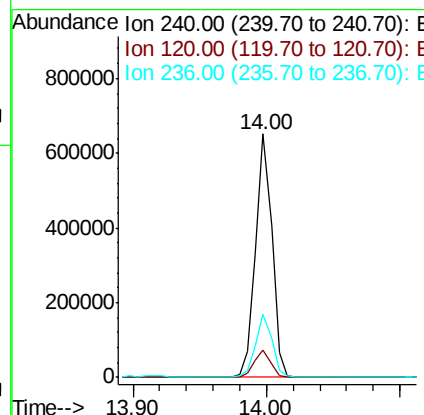
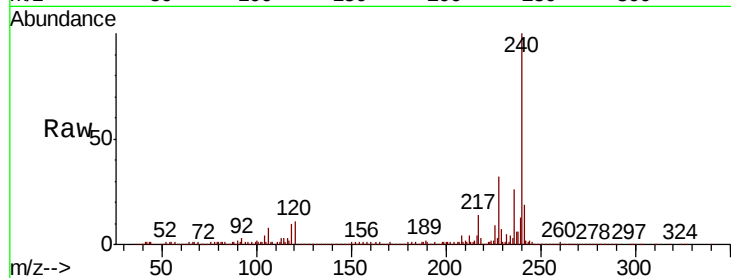
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2059
Delta R.T. -0.00 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Instrument :
BNA_F
ClientSampleId :
NM93-COMP-2020-0-6

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.4	8.8	13.2
236	26.0	21.0	31.4

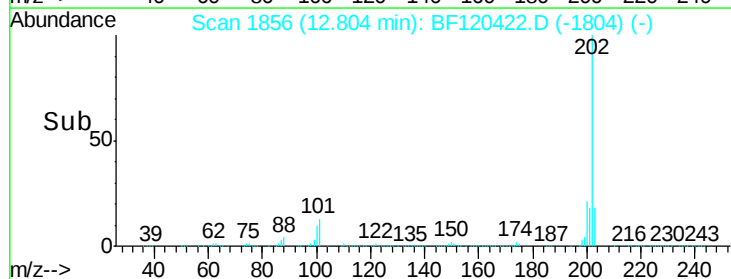
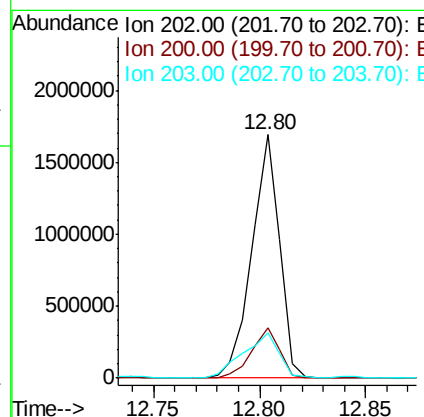
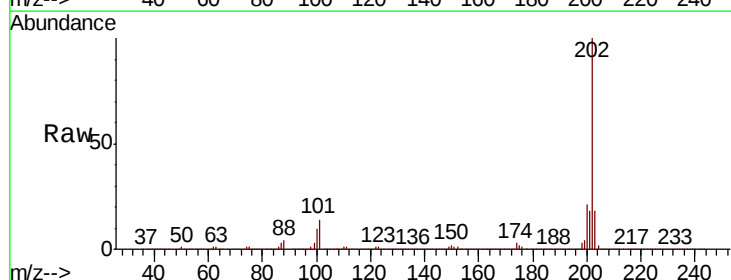
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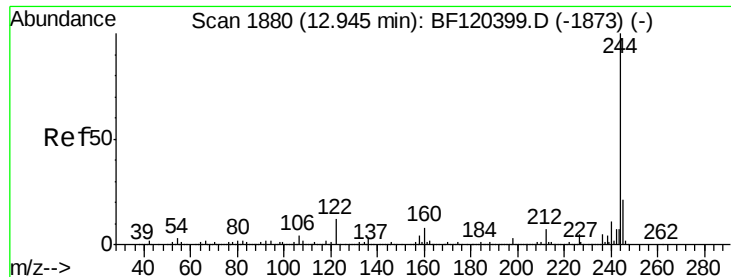
mohammad
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#78
Pyrene
Concen: 40.816 ng
RT: 12.80 min Scan# 1856
Delta R.T. 0.01 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	18.4	14.7	22.1





#79

Terphenyl-d14

Concen: 75.586 ng

RT: 12.95 min Scan# 1881

Delta R.T. 0.01 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

Instrument :

BNA_F

ClientSampleId :

NM93-COMP-2020-0-6

Tot Ion:244 Resp: 1847579

Ion Ratio Lower Upper

244 100

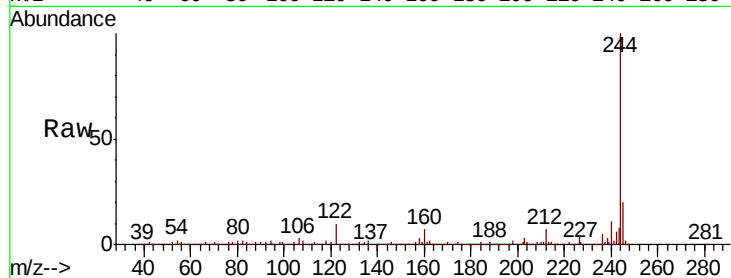
212 6.9 5.9 8.9

122 10.1 9.2 13.8

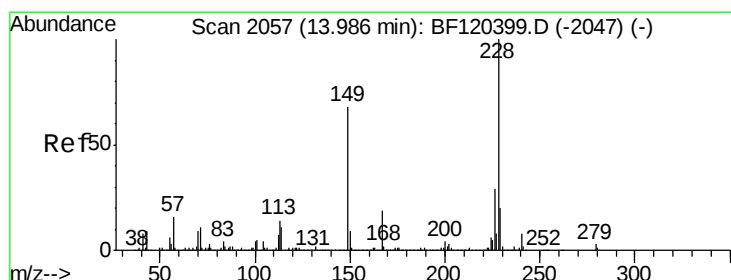
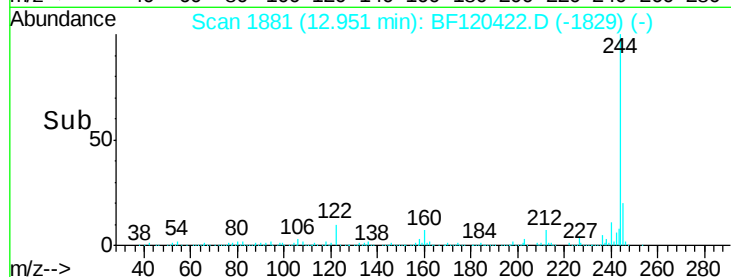
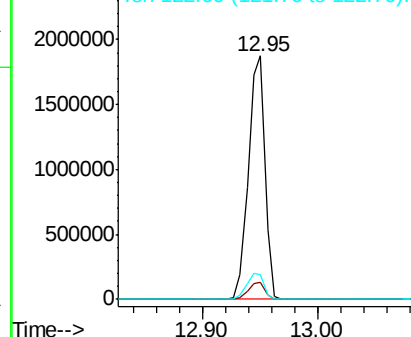
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 28.338 ng

RT: 13.99 min Scan# 2057

Delta R.T. -0.00 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

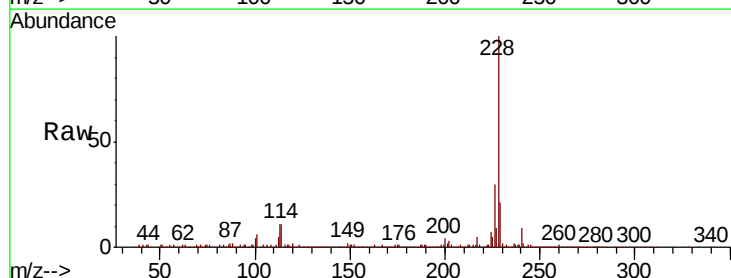
Tgt Ion:228 Resp: 826100

Ion Ratio Lower Upper

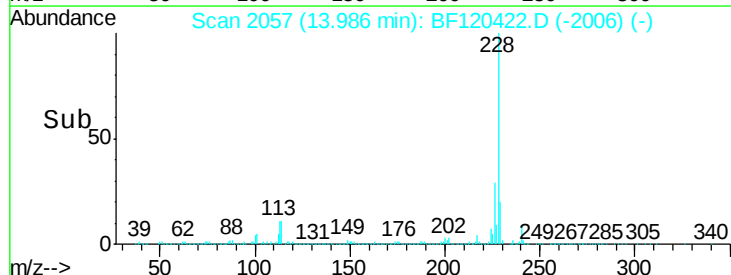
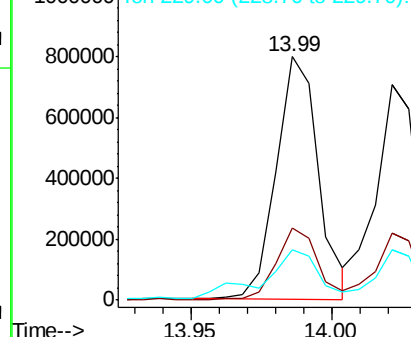
228 100

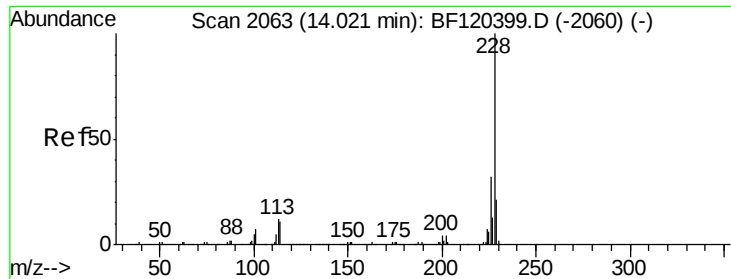
226 29.5 23.0 34.4

229 20.7 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 22.652 ng

RT: 14.02 min Scan# 2063

Delta R.T. -0.00 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

Instrument :

BNA_F

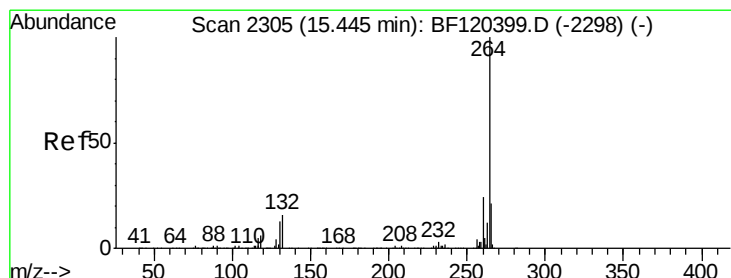
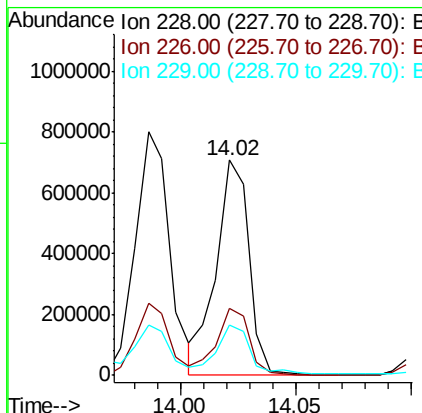
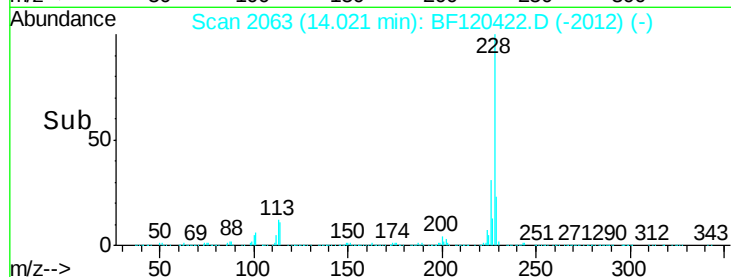
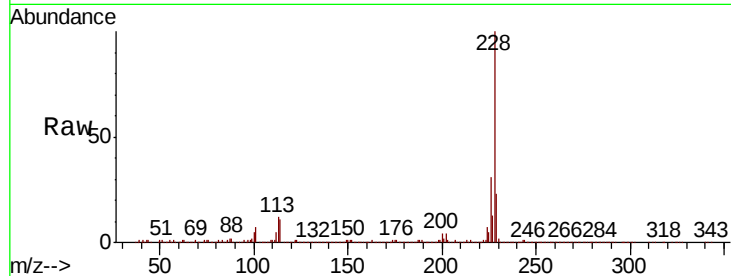
ClientSampleId :

NM93-COMP-2020-0-6

Tot Ion:228	Resp:	692276
Ion Ratio	Lower	Upper
228 100		
226 30.9	25.6	38.4
229 23.2	16.6	25.0

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#86

Perylene-d12

Concen: 20.000 ng

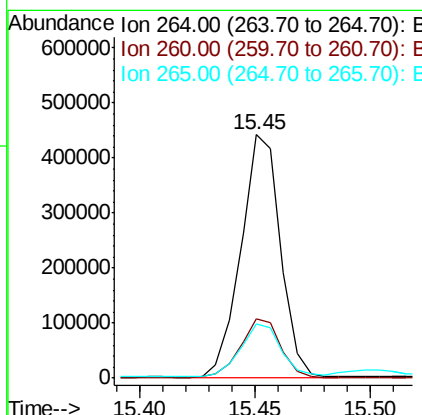
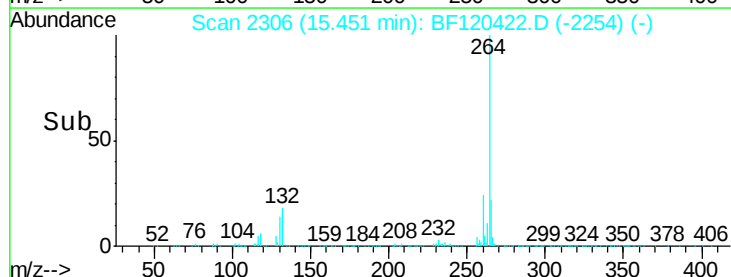
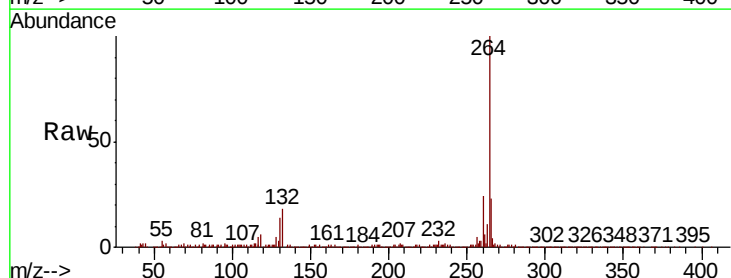
RT: 15.45 min Scan# 2306

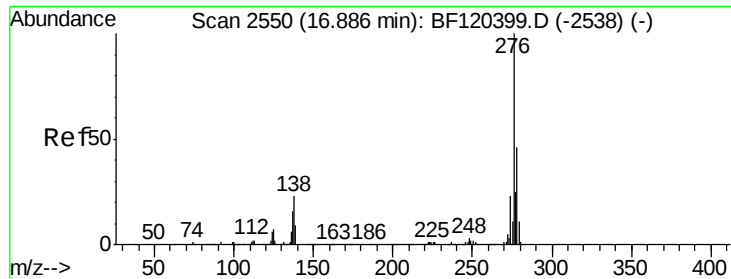
Delta R.T. 0.01 min

Lab File: BF120422.D

Acq: 28 May 2020 21:55

Tgt Ion:264	Resp:	526913
Ion Ratio	Lower	Upper
264 100		
260 24.4	19.2	28.8
265 22.5	16.9	25.3





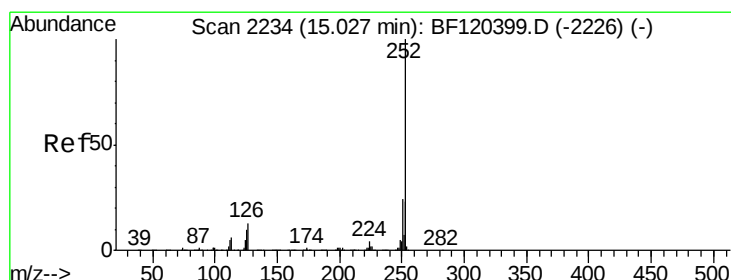
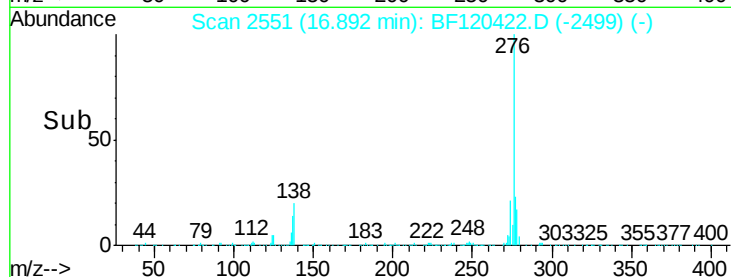
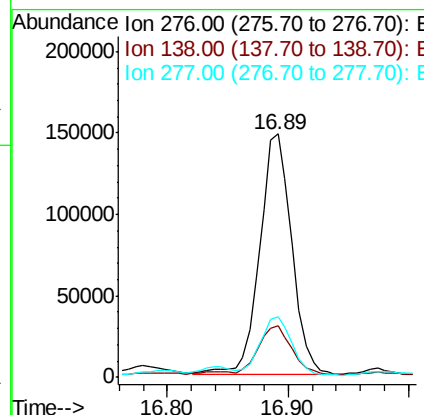
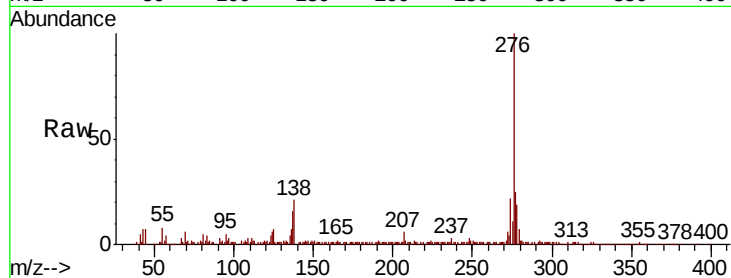
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 9.523 ng
 RT: 16.89 min Scan# 2551
 Delta R.T. 0.01 min
 Lab File: BF120422.D
 Acq: 28 May 2020 21:55

Instrument :
 BNA_F
 ClientSampleId :
 NM93-COMP-2020-0-6

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.1	20.4	30.6
277	24.2	20.4	30.6

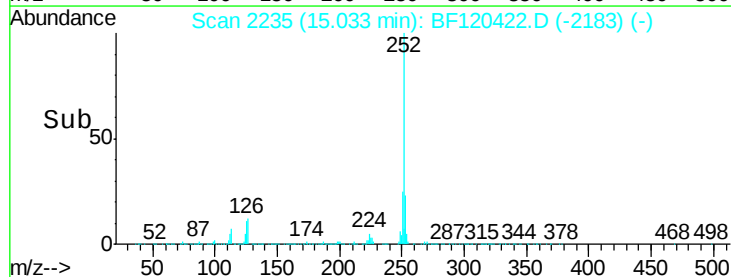
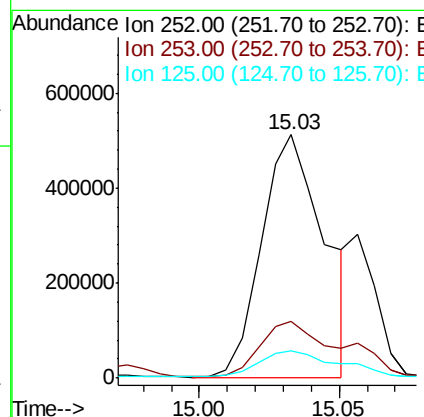
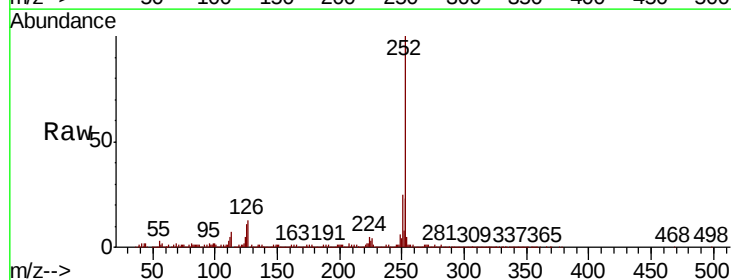
Manual Integrations
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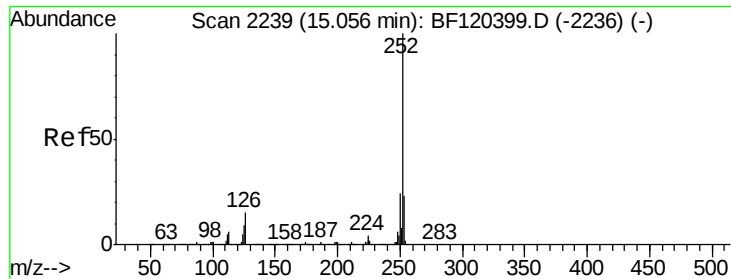
mohammad
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#88
 Benzo(b)fluoranthene
 Concen: 27.299 ng m
 RT: 15.03 min Scan# 2235
 Delta R.T. 0.01 min
 Lab File: BF120422.D
 Acq: 28 May 2020 21:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	11.2	7.8	11.8





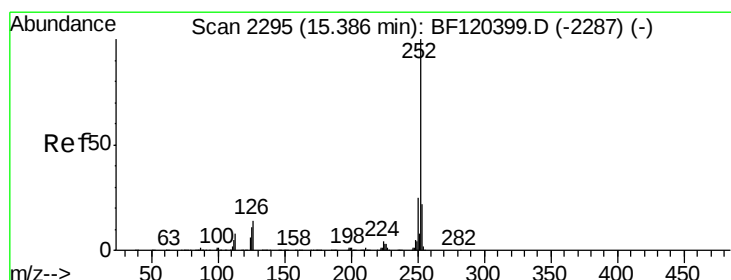
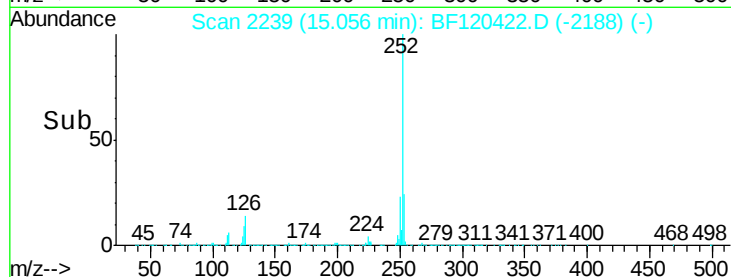
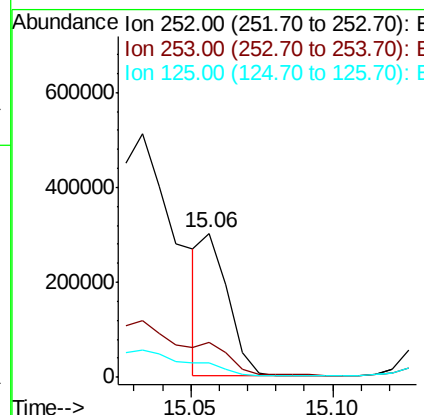
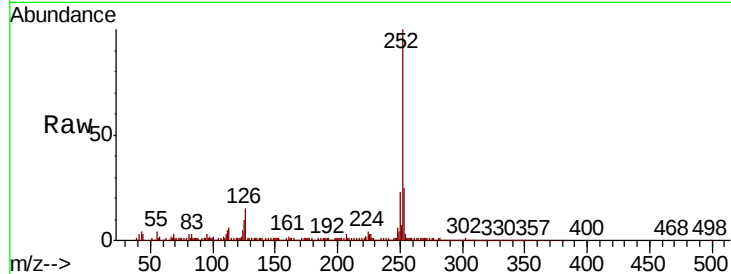
#89
Benzo(k)fluoranthene
Concen: 7.111 ng m
RT: 15.06 min Scan# 2239
Delta R.T. -0.00 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Instrument :
BNA_F
ClientSampleId :
NM93-COMP-2020-0-6

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.5	27.7
125	10.2	8.0	12.0

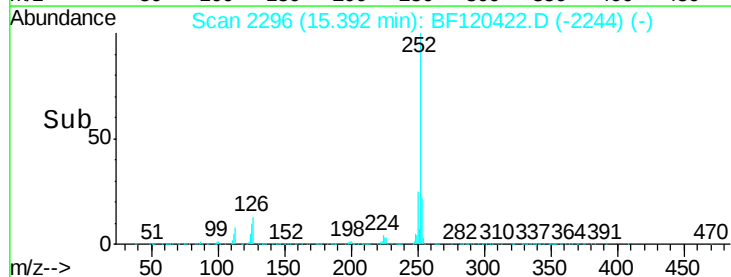
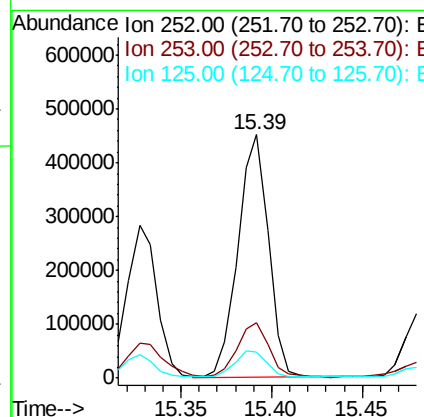
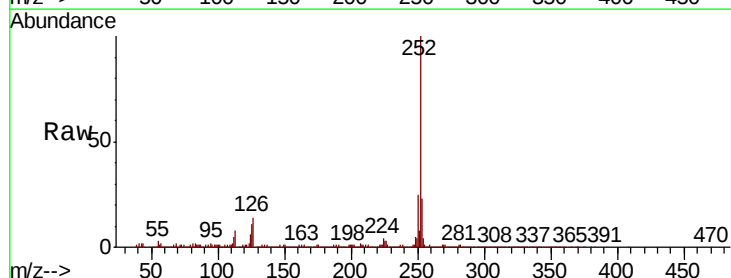
Manual Integrations
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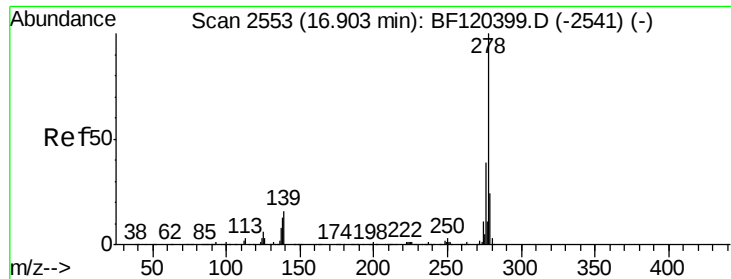
mohammad
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#90
Benzo(a)pyrene
Concen: 20.487 ng
RT: 15.39 min Scan# 2296
Delta R.T. 0.01 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	10.9	8.7	13.1





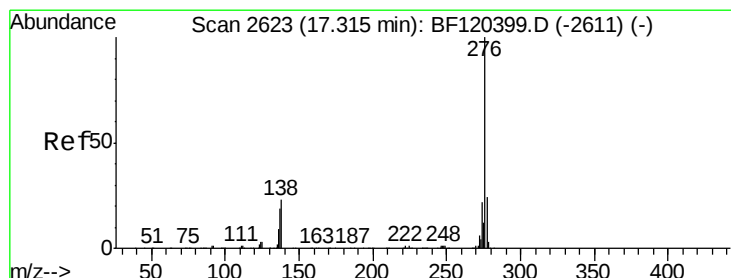
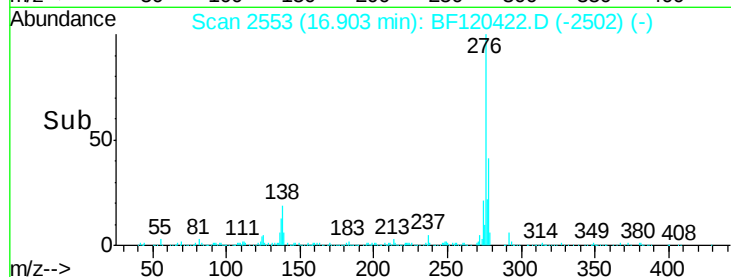
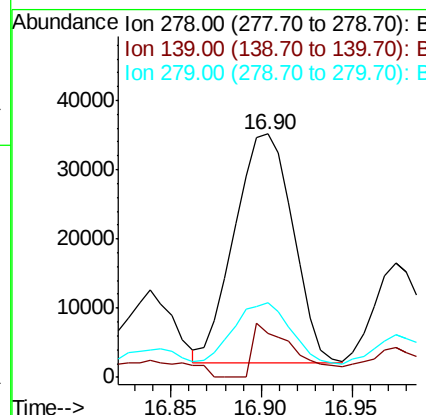
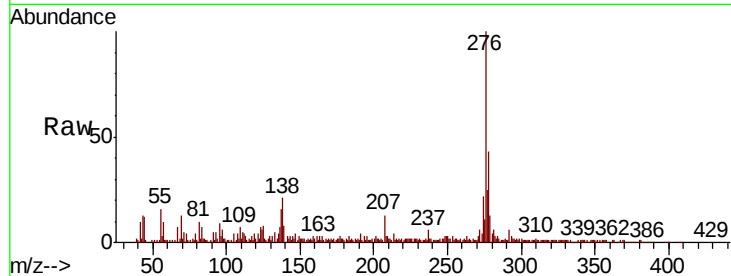
#91
Dibenzo(a,h)anthracene
Concen: 3.136 ng m
RT: 16.90 min Scan# 2553
Delta R.T. -0.00 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Instrument :
BNA_F
ClientSampleId :
NM93-COMP-2020-0-6

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.0	12.8	19.2
279	30.8	19.0	28.4

Manual Integrations
APPROVED

mohammad
5/29/2020 10:28:32 PM



#92
Benzo(g,h,i)perylene
Concen: 9.959 ng
RT: 17.33 min Scan# 2625
Delta R.T. 0.01 min
Lab File: BF120422.D
Acq: 28 May 2020 21:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.5	29.3
138	21.9	18.1	27.1

