

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM051219\
 Data File : BM020304.D
 Acq On : 12 May 2019 18:30
 Operator : JU/SJ
 Sample : K2768-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-1218-01

Manual Integrations
 APPROVED

Sohil
 5/14/2019 8:07:37 PM

Quant Time: May 17 00:58:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.76	152	53603	20.00	ng	-0.03
21) Naphthalene-d8	10.55	136	181529	20.00	ng	-0.04
39) Acenaphthene-d10	14.41	164	109539	20.00	ng	-0.02
64) Phenanthrene-d10	17.16	188	274876	20.00	ng	-0.02
76) Chrysene-d12	21.35	240	323386	20.00	ng	-0.02
87) Perylene-d12	23.64	264	406346	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	450544	137.39	ng	-0.02
7) Phenol-d6	6.93	99	604174	134.86	ng	-0.02
23) Nitrobenzene-d5	8.93	82	406648	88.44	ng	-0.03
42) 2,4,6-Tribromophenol	15.90	330	231824	136.35	ng	-0.02
45) 2-Fluorobiphenyl	13.03	172	651217	73.15	ng	-0.03
79) Terphenyl-d14	19.79	244	1132070	61.06	ng	-0.02
Target Compounds						
31) Naphthalene	10.60	128	58942	6.257	ng	98
37) 2-Methylnaphthalene	12.22	142	24949	3.633	ng	98
49) Acenaphthylene	14.13	152	198443	17.225	ng	99
50) Dimethylphthalate	13.86	163	109230	11.733	ng	98
58) Fluorene	15.48	166	20498	2.240	ng	# 43
71) Phenanthrene	17.20	178	564982	37.235	ng	99
72) Anthracene	17.29	178	142285	9.379	ng	99
75) Fluoranthene	19.22	202	1005204	52.359	ng	99
78) Pyrene	19.59	202	2025499	93.290	ng	99
81) Benzo(a)anthracene	21.33	228	794329	35.025	ng	94
83) Chrysene	21.39	228	910032	41.375	ng	97
86) Indeno(1,2,3-cd)pyrene	25.96	276	599958	22.932	ng	# 100
88) Benzo(b)fluoranthene	22.95	252	1072151m	39.957	ng	
89) Benzo(k)fluoranthene	22.98	252	270973m	11.071	ng	
90) Benzo(a)pyrene	23.54	252	727265	29.839	ng	98
91) Dibenzo(a,h)anthracene	25.96	278	152314	6.009	ng	# 89
92) Benzo(a,h,i)perylene	26.68	276	724360	30.101	ng	98

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

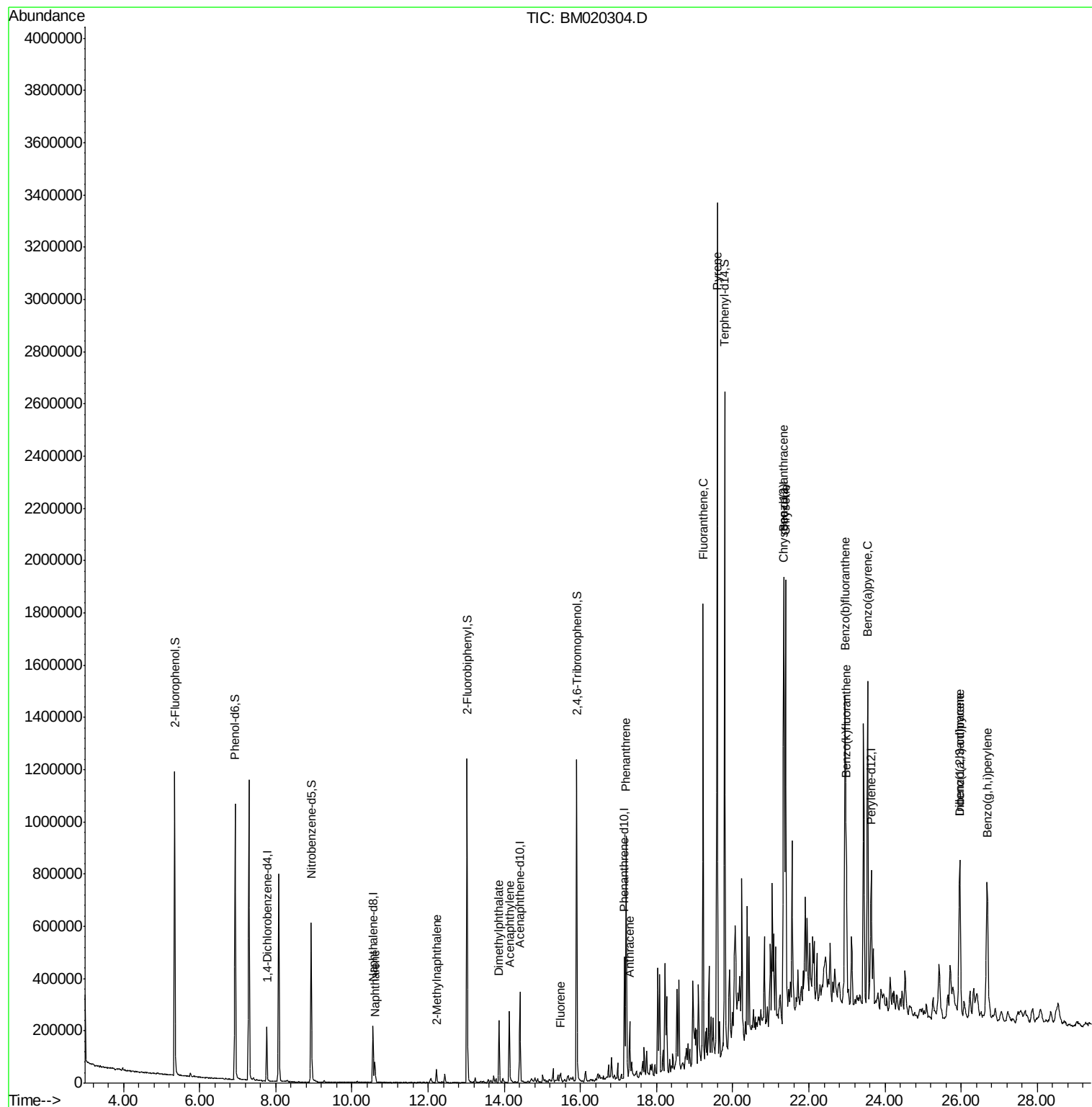
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM051219\
Data File : BM020304.D
Acq On : 12 May 2019 18:30
Operator : JU/SJ
Sample : K2768-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

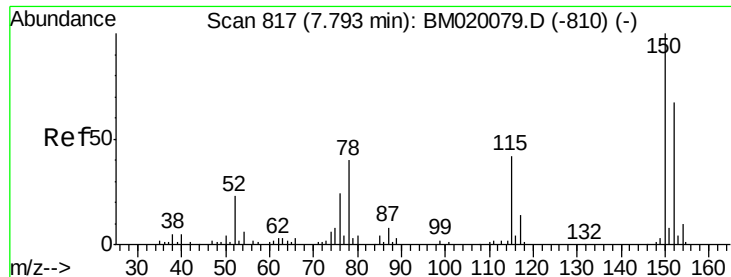
Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Manual Integrations
APPROVED

Sohil
5/14/2019 8:07:37 PM

Quant Time: May 17 00:58:46 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 01 03:58:37 2019
Response via : Initial Calibration





#1

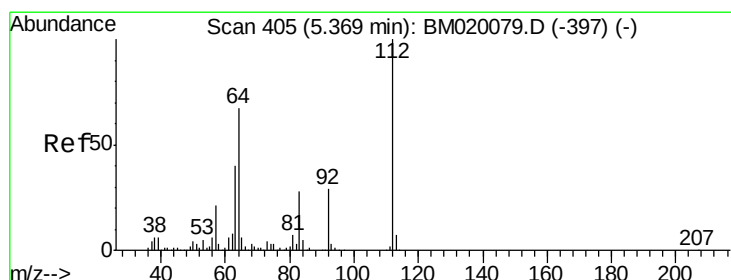
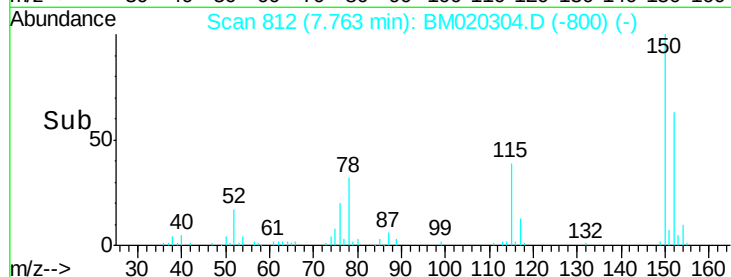
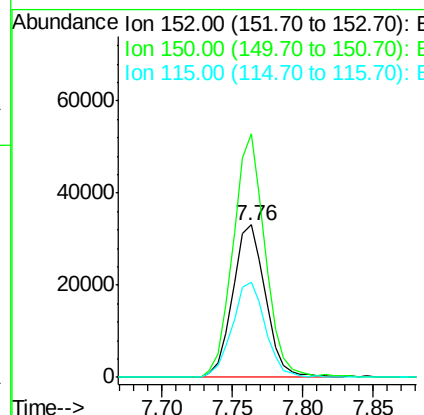
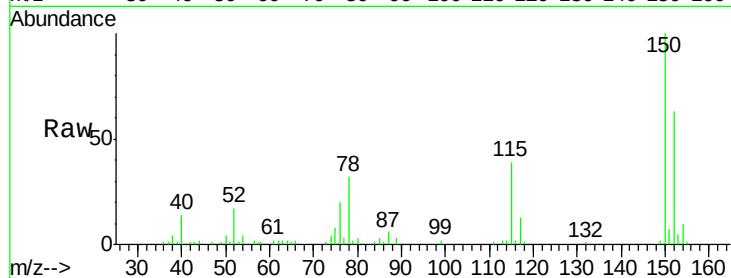
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.76 min Scan# 812
Delta R.T. -0.03 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.8	119.8	179.8
115	62.5	50.8	76.2

Manual Integrations
APPROVED

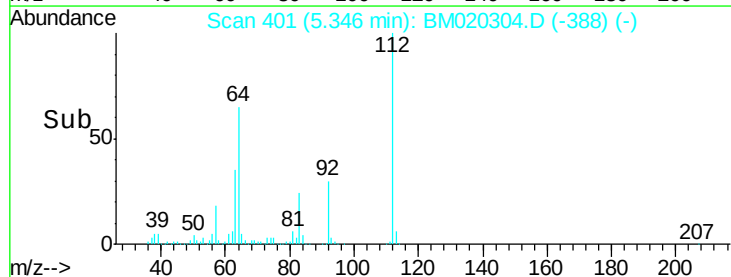
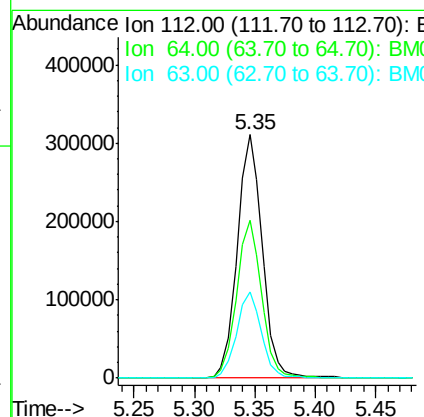
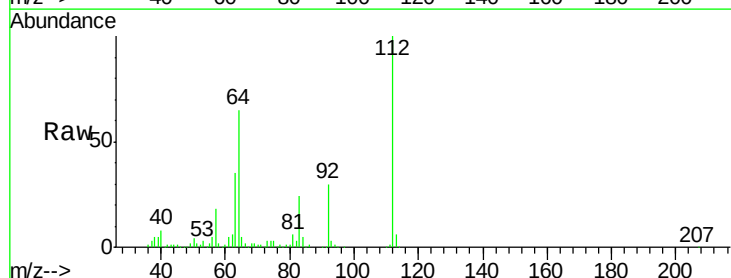
Sohil
5/14/2019 8:07:37 PM

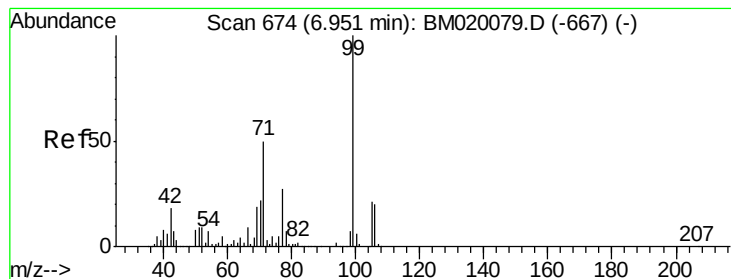


#5

2-Fluorophenol
Concen: 137.391 ng
RT: 5.35 min Scan# 401
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.0	53.8	80.6
63	35.4	32.3	48.5





#7

Phenol-d6

Concen: 134.861 ng

RT: 6.93 min Scan# 670

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

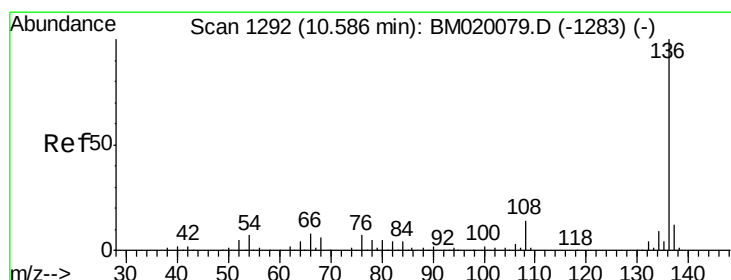
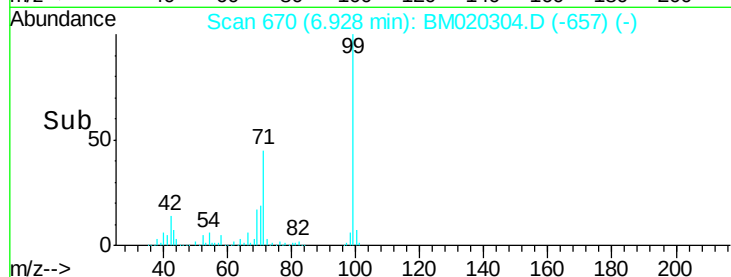
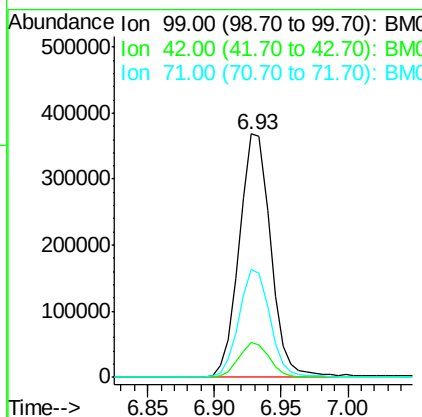
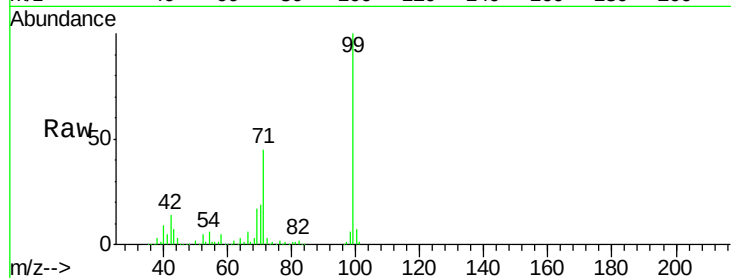
ClientSampleId :

P026-SS013-1218-01

Tot Ion:	99	Resp:	604174
Ion Ratio	Lower	Upper	
99	100		
42	14.2	14.2	21.2
71	44.5	40.3	60.5

Manual Integrations
APPROVED

Sohil
5/14/2019 8:07:37 PM



#21

Naphthalene-d8

Concen: 20.000 ng

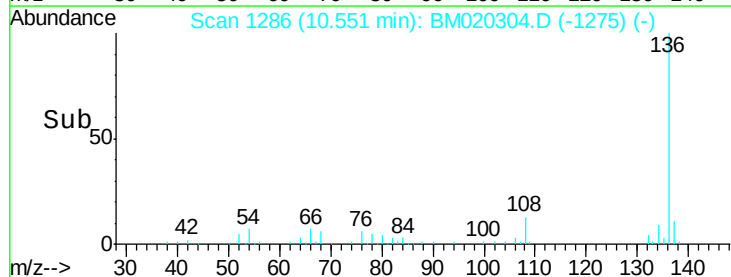
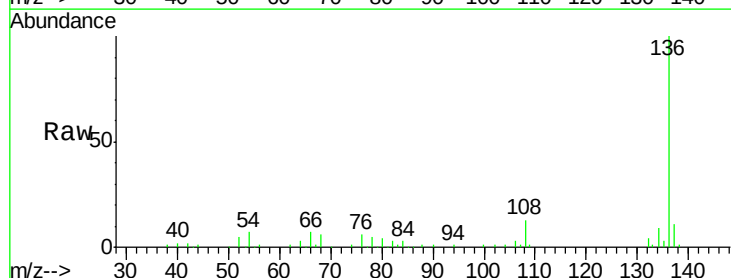
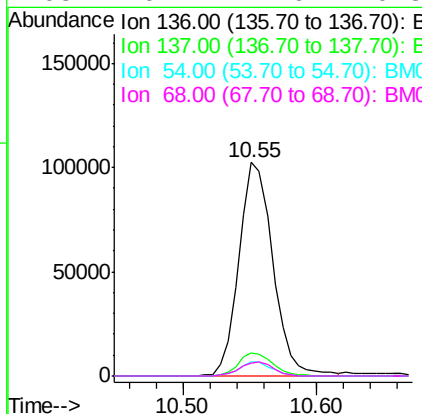
RT: 10.55 min Scan# 1286

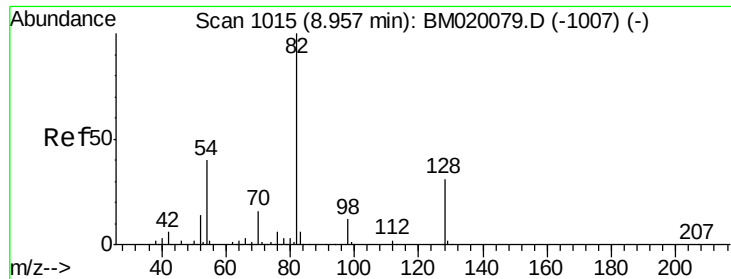
Delta R.T. -0.04 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Tgt Ion:	136	Resp:	181529
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.6	14.4
54	6.6	5.5	8.3
68	6.2	4.6	6.8





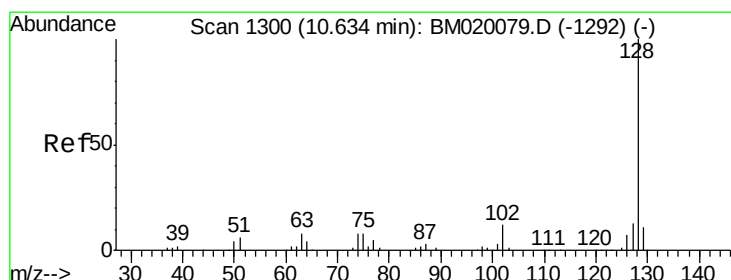
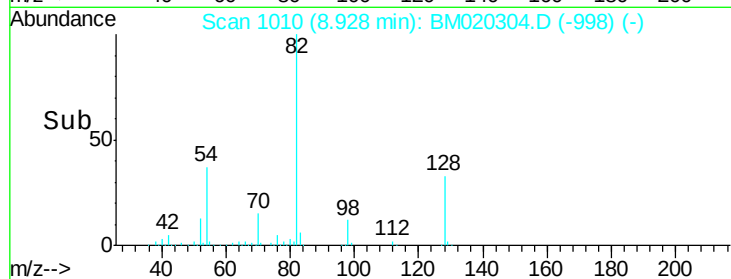
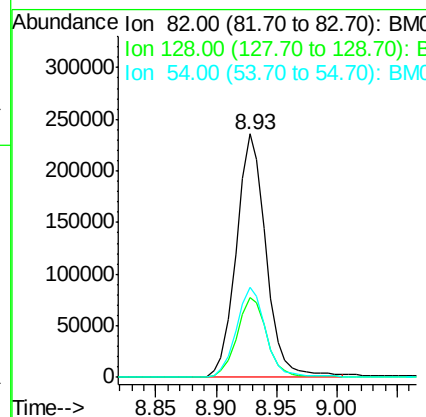
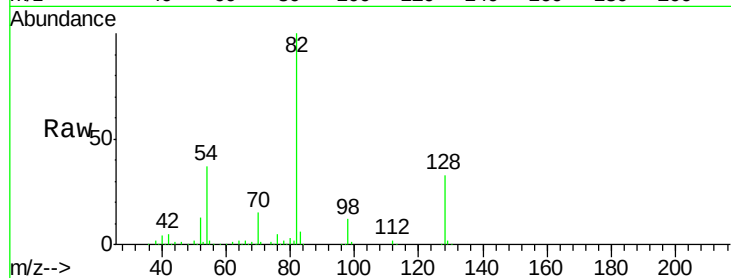
#23
Nitrobenzene-d5
Concen: 88.440 ng
RT: 8.93 min Scan# 1010
Delta R.T. -0.03 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	32.9	25.2	37.8	
54	36.9	31.9	47.9	

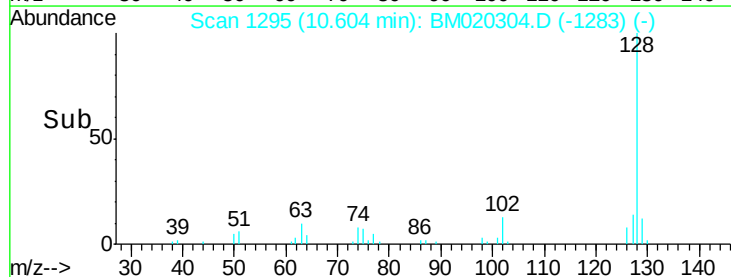
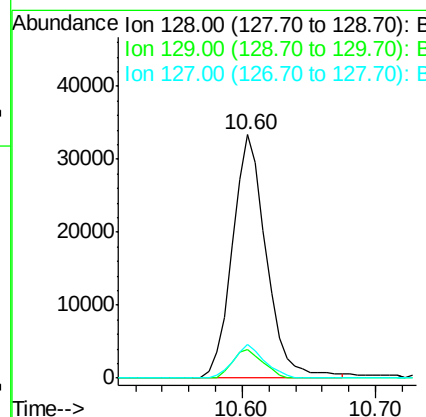
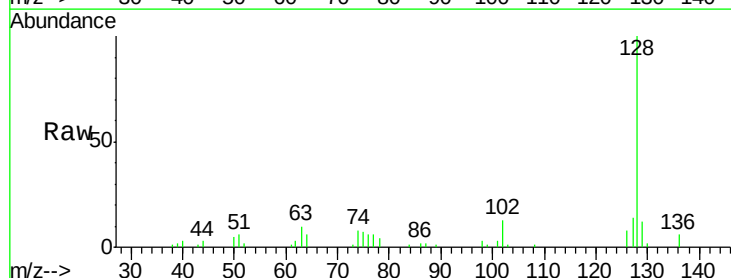
Manual Integrations
APPROVED

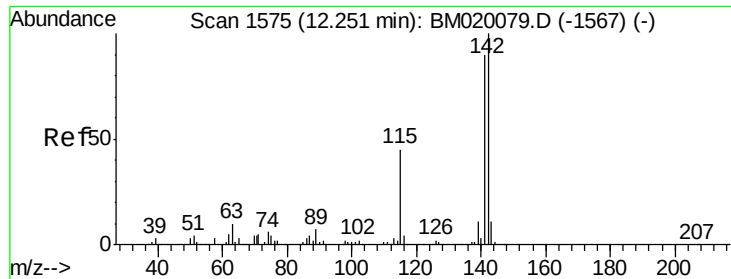
Sohil
5/14/2019 8:07:37 PM



#31
Naphthalene
Concen: 6.257 ng
RT: 10.60 min Scan# 1295
Delta R.T. -0.03 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.6	9.0	13.4	
127	13.9	10.4	15.6	





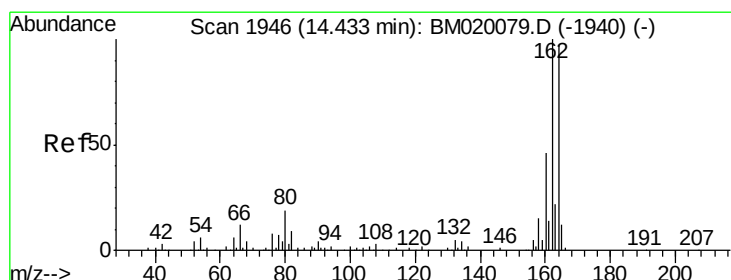
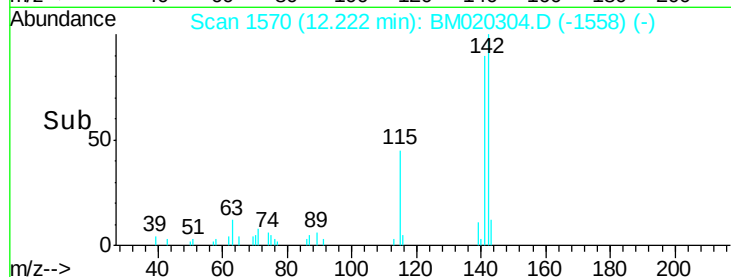
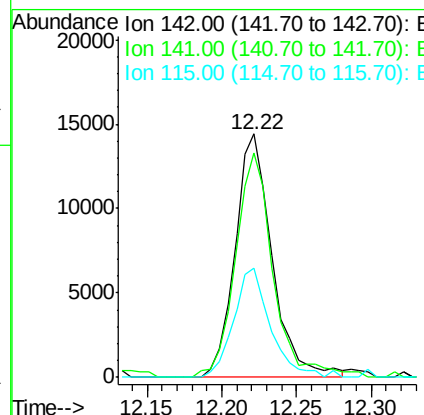
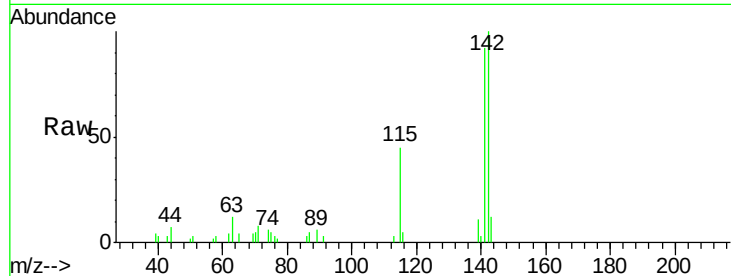
#37
2-Methylnaphthalene
Concen: 3.633 ng
RT: 12.22 min Scan# 1570
Delta R.T. -0.03 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.4	71.6	107.4
115	45.0	35.8	53.6

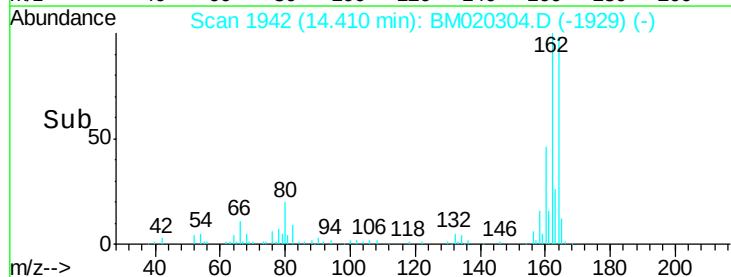
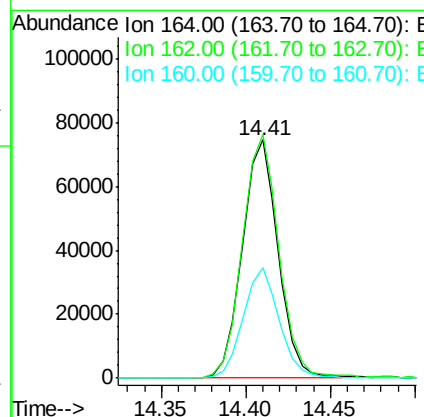
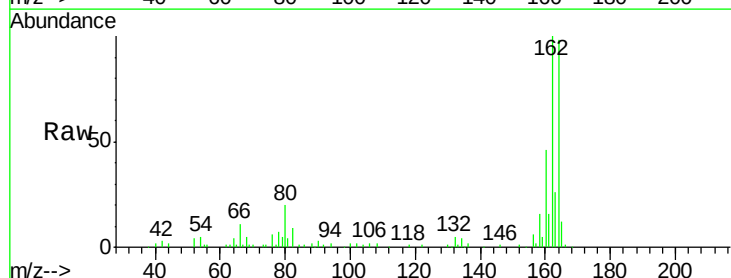
Manual Integrations
APPROVED

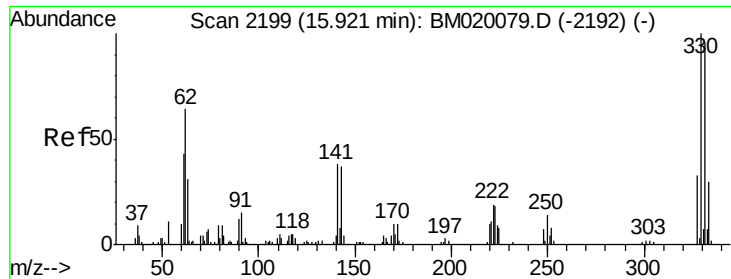
Sohil
5/14/2019 8:07:37 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.41 min Scan# 1942
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	46.6	37.6	56.4





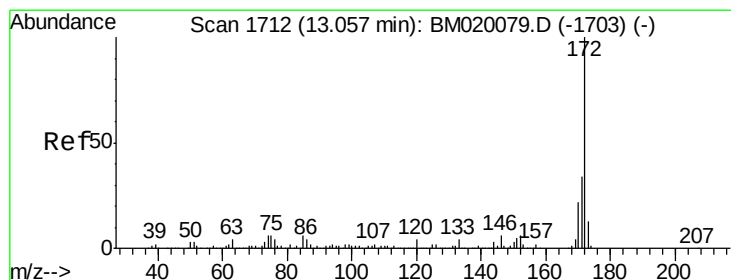
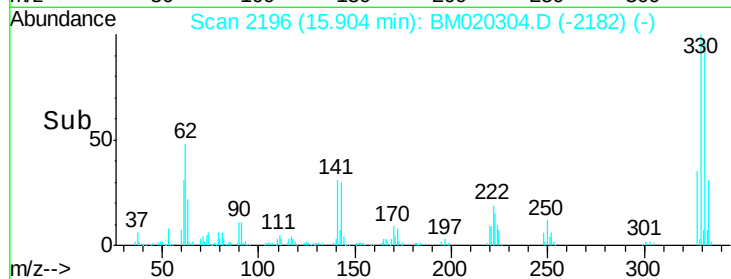
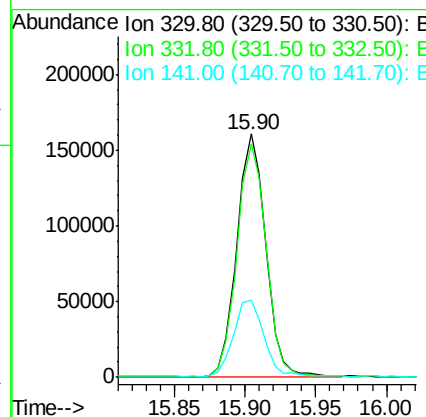
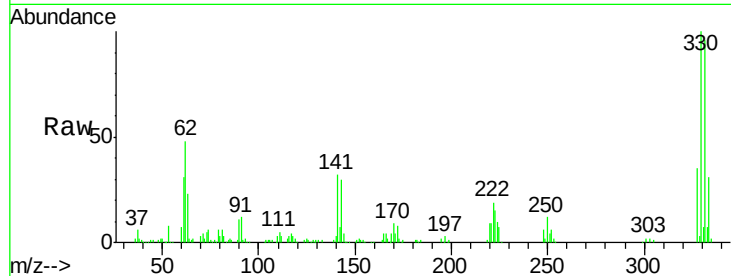
#42
 2,4,6-Tribromophenol
 Concen: 136.347 ng
 RT: 15.90 min Scan# 2196
 Delta R.T. -0.02 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-1218-01

Tot Ion	Ratio	Resp	Lower	Upper
330	100	231824		
332	97.0	76.8	115.2	
141	33.0	29.2	43.8	

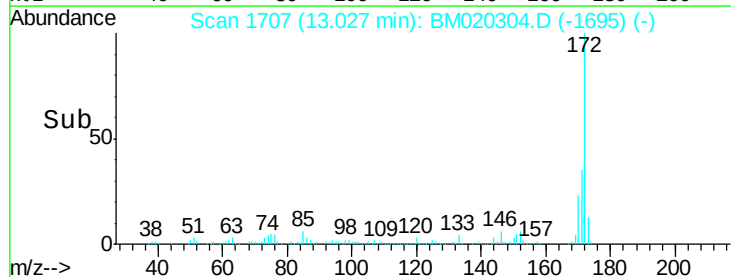
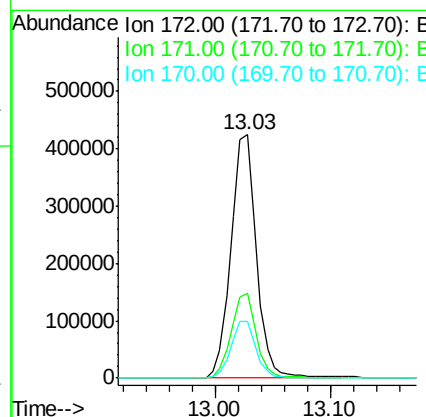
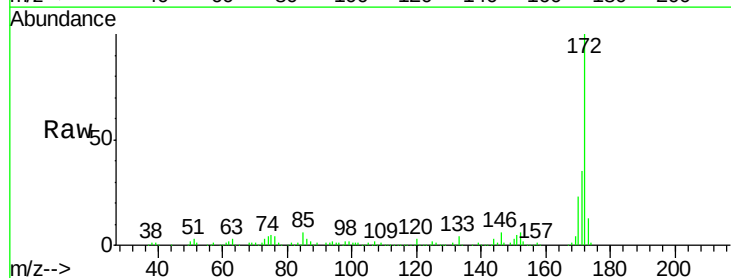
Manual Integrations
 APPROVED

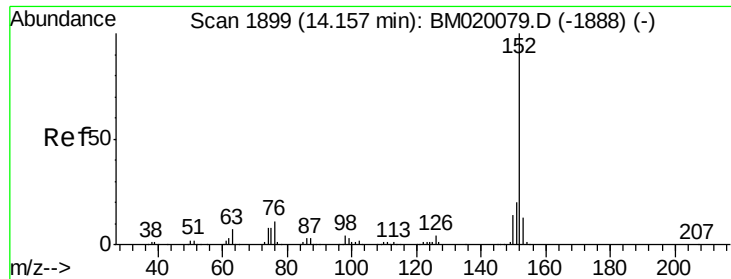
Sohil
 5/14/2019 8:07:37 PM



#45
 2-Fluorobiphenyl
 Concen: 73.146 ng
 RT: 13.03 min Scan# 1707
 Delta R.T. -0.03 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	651217		
171	34.7	27.3	40.9	
170	23.1	17.9	26.9	





#49

Acenaphthylene

Concen: 17.225 ng

RT: 14.13 min Scan# 1895

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

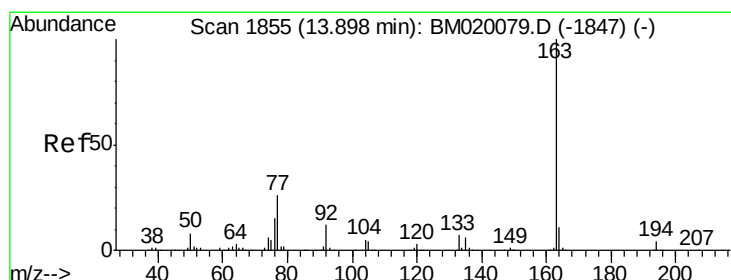
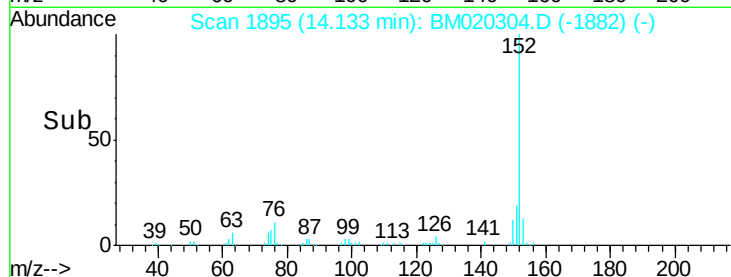
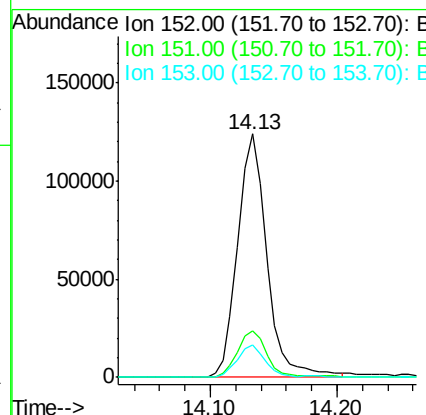
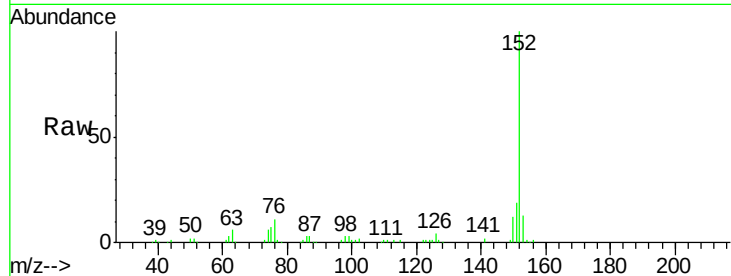
ClientSampleId :

P026-SS013-1218-01

Tot Ion:	152	Resp:	198443
Ion Ratio	Lower	Upper	
152	100		
151	19.2	16.2	24.2
153	13.2	10.6	16.0

Manual Integrations
APPROVED

Sohil
5/14/2019 8:07:37 PM



#50

Dimethylphthalate

Concen: 11.733 ng

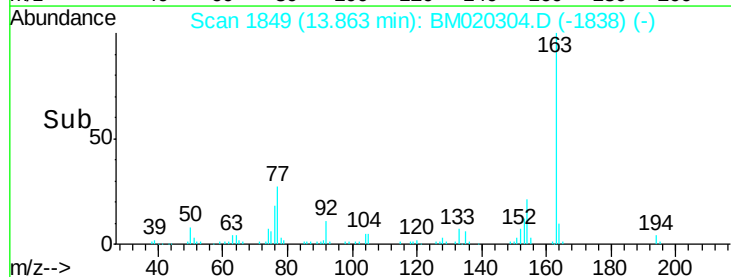
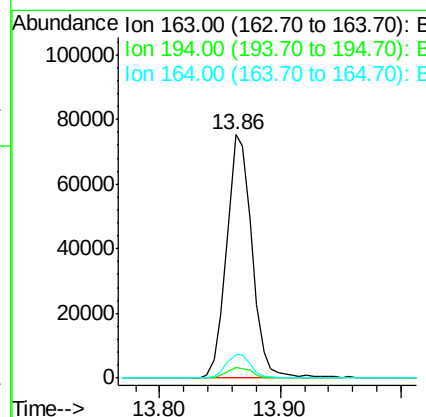
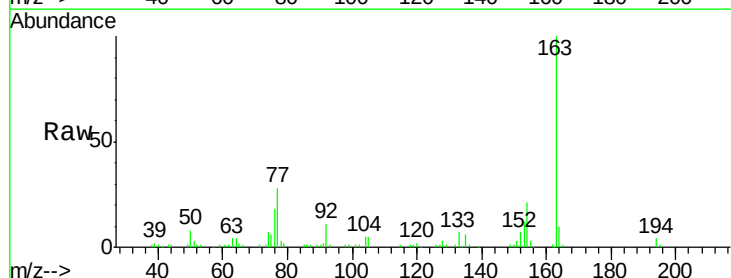
RT: 13.86 min Scan# 1849

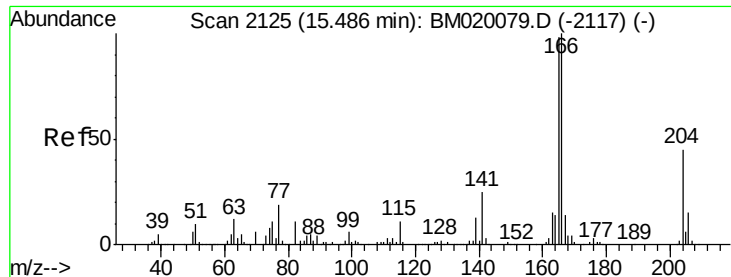
Delta R.T. -0.04 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Tgt Ion:	163	Resp:	109230
Ion Ratio	Lower	Upper	
163	100		
194	4.2	3.6	5.4
164	9.7	8.4	12.6





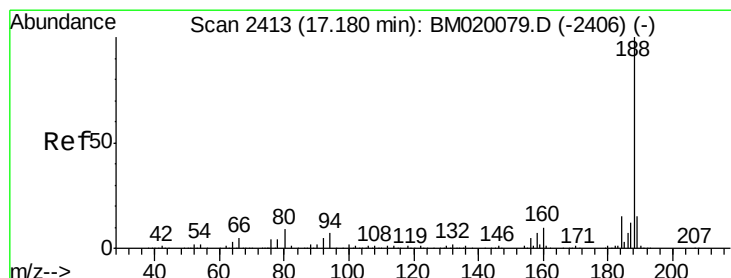
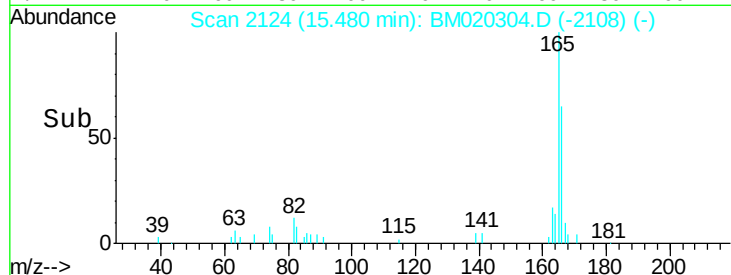
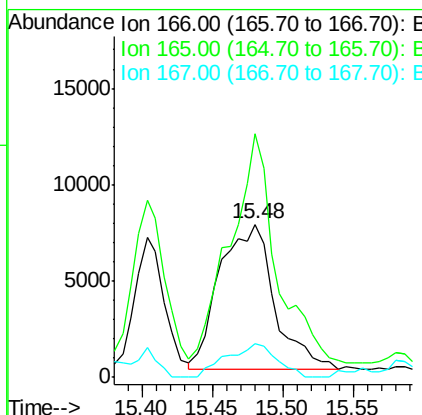
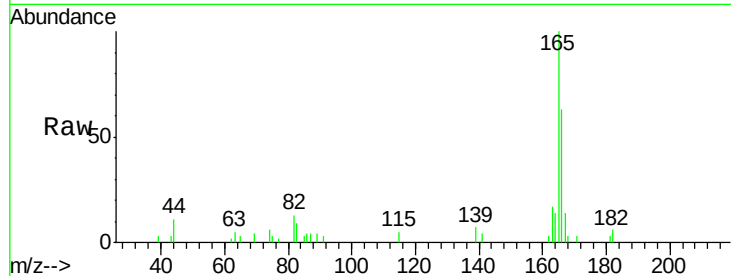
#58
 Fluorene
 Concen: 2.240 ng
 RT: 15.48 min Scan# 2124
 Delta R.T. -0.01 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-1218-01

Tot Ion	Ratio	Lower	Upper
166	100		
165	159.2	78.2	117.2#
167	21.9	11.0	16.4#

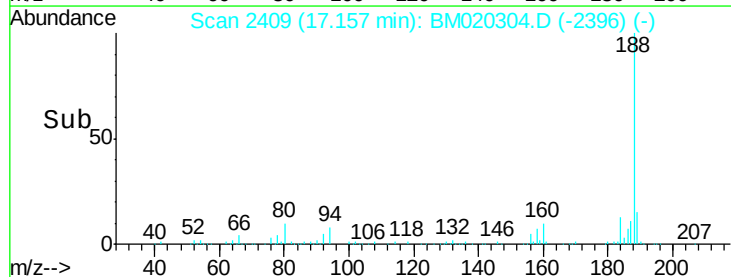
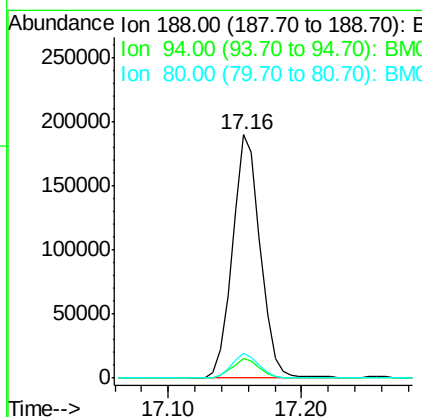
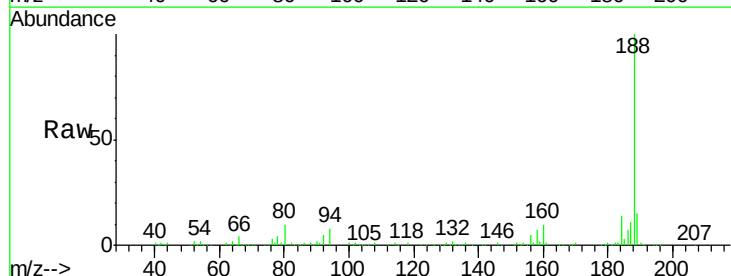
Manual Integrations
 APPROVED

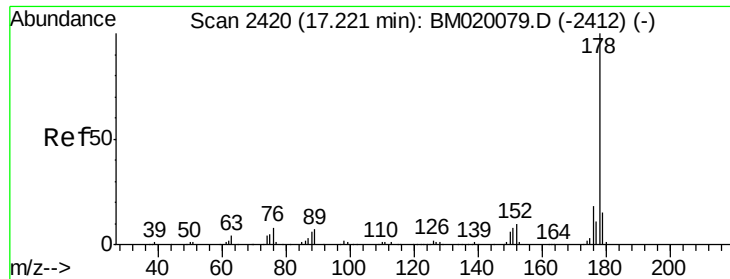
Sohil
 5/14/2019 8:07:37 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.16 min Scan# 2409
 Delta R.T. -0.02 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.2	5.8	8.6
80	10.1	7.4	11.2





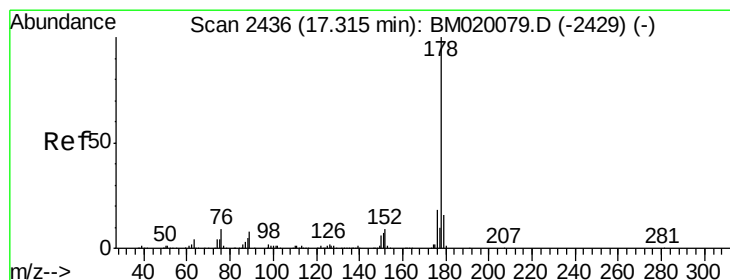
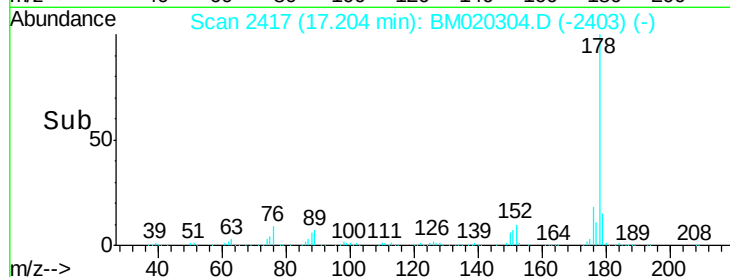
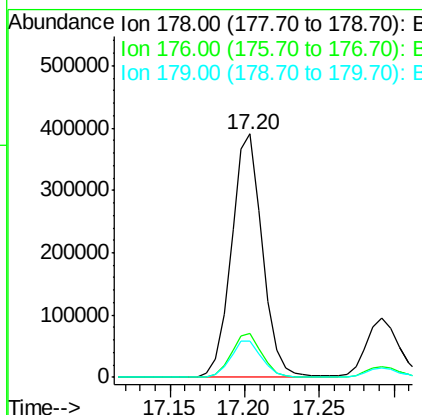
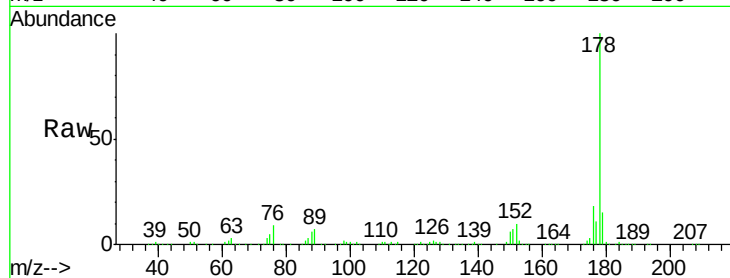
#71
Phenanthrene
Concen: 37.235 ng
RT: 17.20 min Scan# 2417
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.6	21.8
179	14.9	12.4	18.6

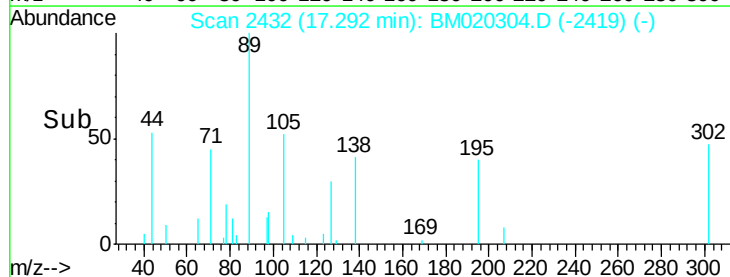
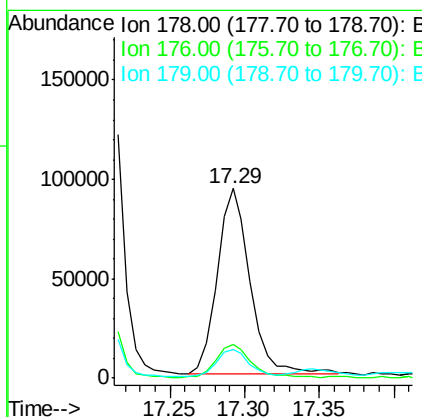
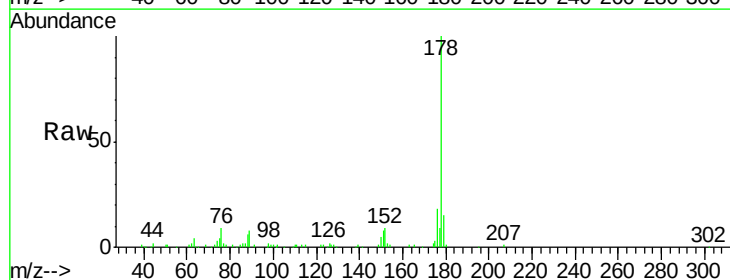
Manual Integrations
APPROVED

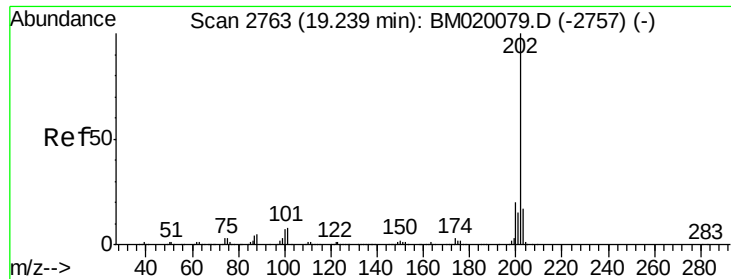
Sohil
5/14/2019 8:07:37 PM



#72
Anthracene
Concen: 9.379 ng
RT: 17.29 min Scan# 2432
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	22.0
179	15.2	12.4	18.6





#75

Fluoranthene

Concen: 52.359 ng

RT: 19.22 min Scan# 2760

Delta R.T. -0.02 min

Lab File: BM020304.D

Acq: 12 May 2019 18:30

Instrument :

BNA_M

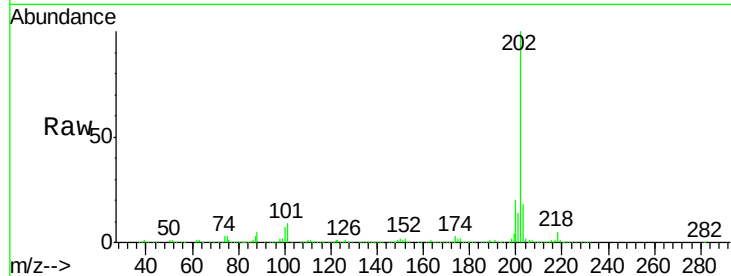
ClientSampleId :

P026-SS013-1218-01

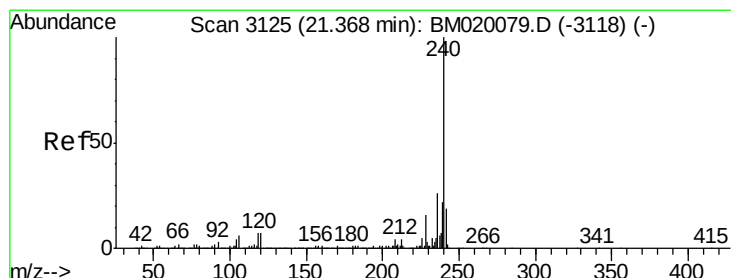
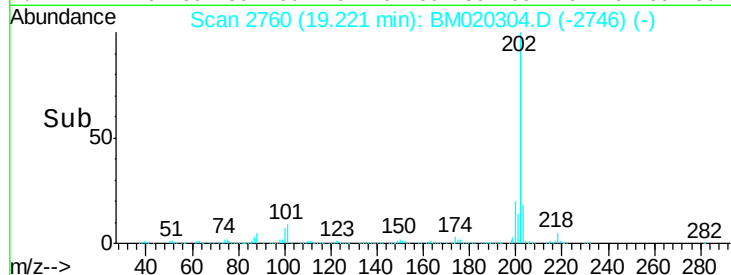
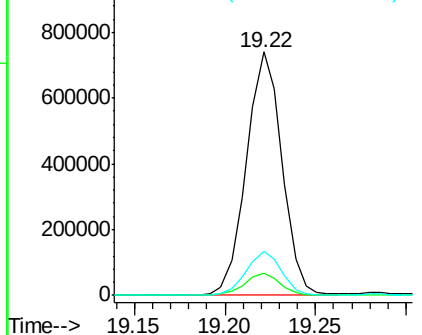
Tot Ion:	202	Resp:	1005204
Ion Ratio	Lower	Upper	
202	100		
101	8.9	0.0	28.4
203	18.1	0.0	37.4

Manual Integrations
APPROVED

Sohil
5/14/2019 8:07:37 PM



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

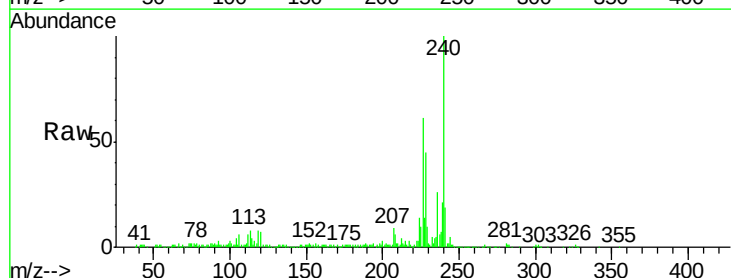
RT: 21.35 min Scan# 3122

Delta R.T. -0.02 min

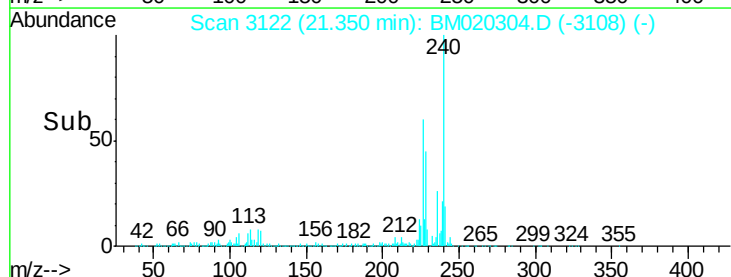
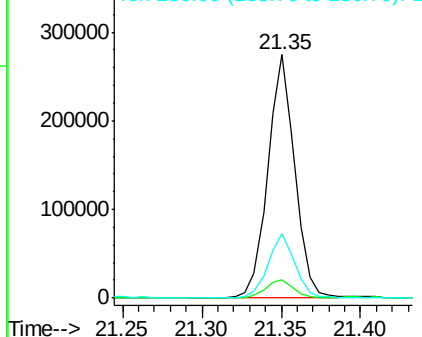
Lab File: BM020304.D

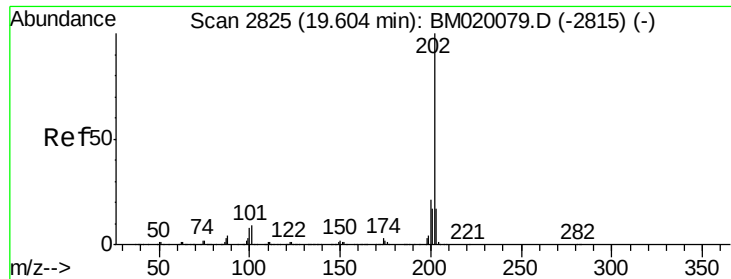
Acq: 12 May 2019 18:30

Tgt Ion:	240	Resp:	323386
Ion Ratio	Lower	Upper	
240	100		
120	7.4	5.6	8.4
236	26.4	20.9	31.3



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





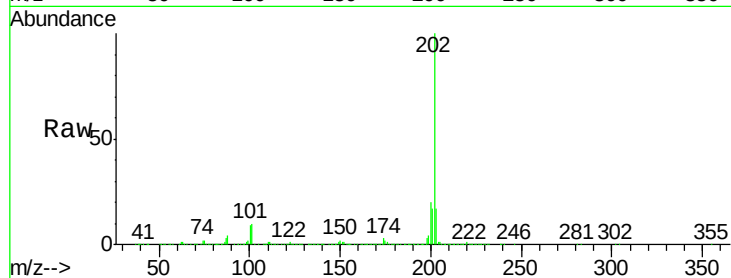
#78
Pvrene
Concen: 93.290 ng
RT: 19.59 min Scan# 2823
Delta R.T. -0.01 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

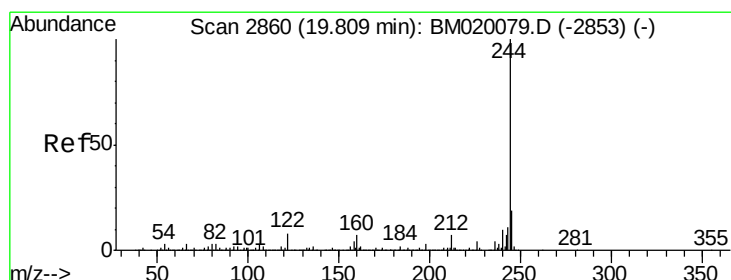
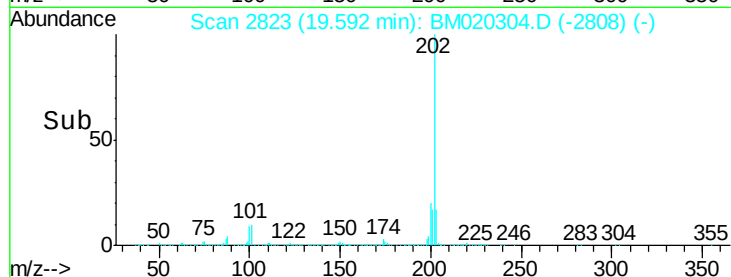
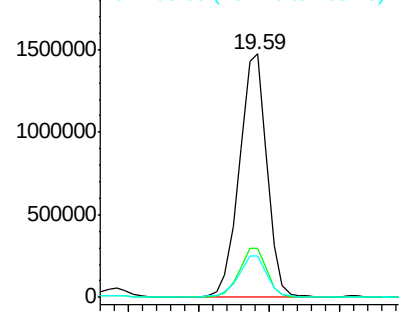
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		2025499		
200	20.1	16.5	24.7		
203	17.2	13.9	20.9		

Manual Integrations
APPROVED

Sohil
5/14/2019 8:07:37 PM

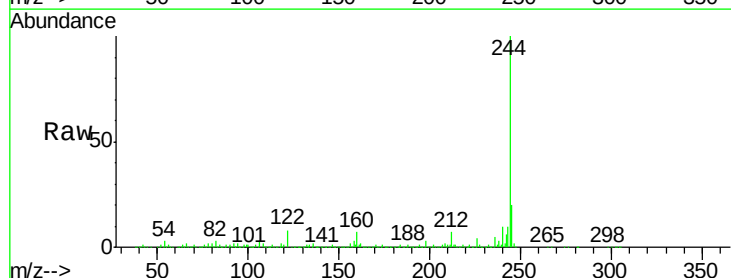


Abundance Ion 202.00 (201.70 to 202.70): E
2000000
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

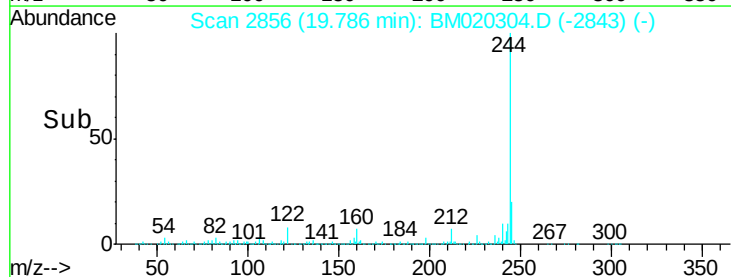
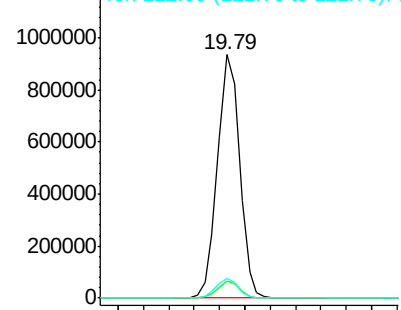


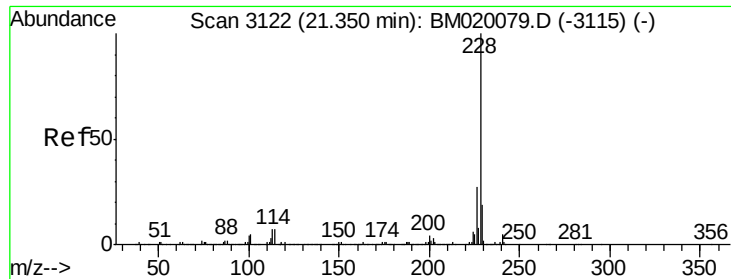
#79
Terphenyl-d14
Concen: 61.059 ng
RT: 19.79 min Scan# 2856
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
244	100		1132070		
212	7.0	5.7	8.5		
122	8.1	6.2	9.2		



Abundance Ion 244.00 (243.70 to 244.70): E
1200000
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





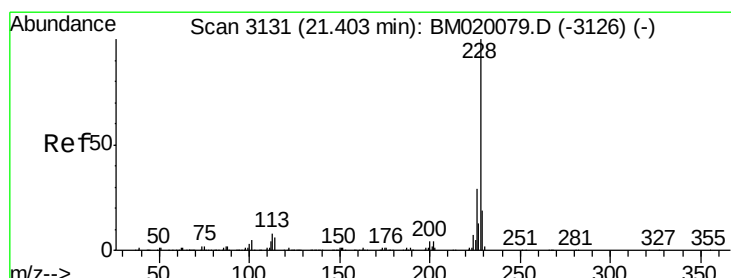
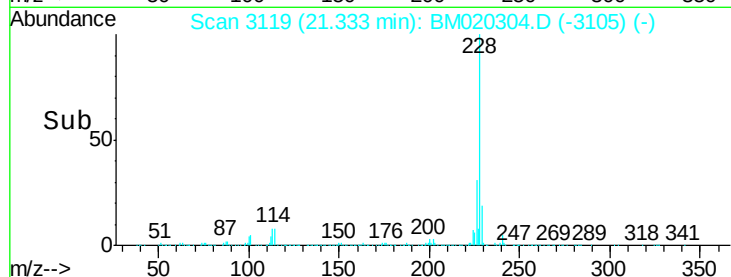
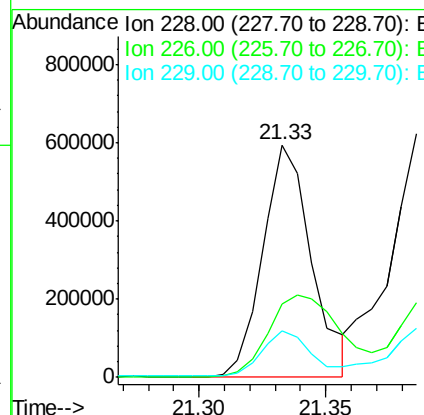
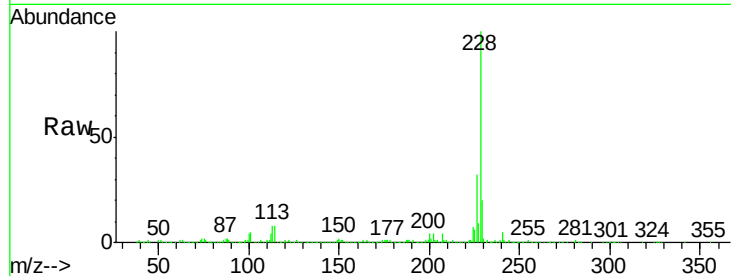
#81
Benzo(a)anthracene
Concen: 35.025 ng
RT: 21.33 min Scan# 3119
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100		794329		
226	31.6	21.3	31.9		
229	20.1	15.5	23.3		

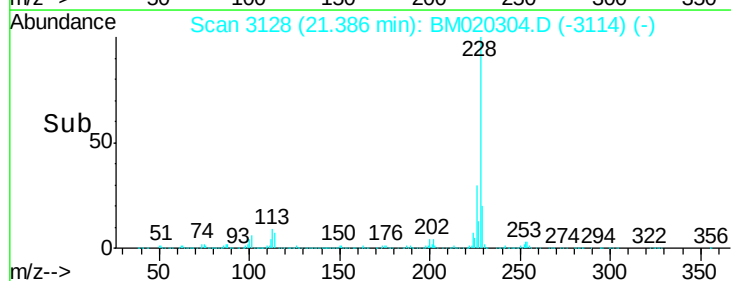
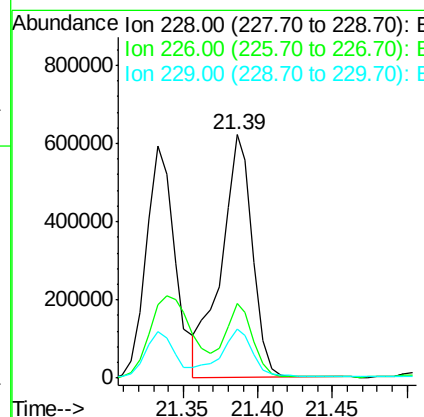
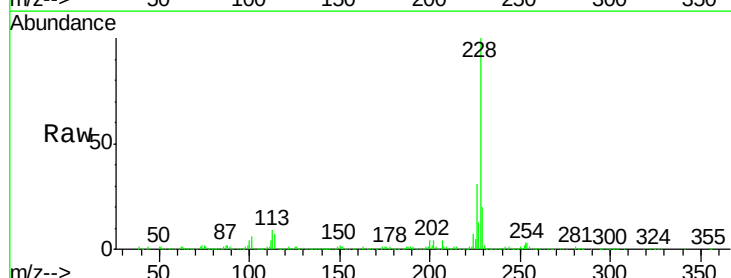
Manual Integrations
APPROVED

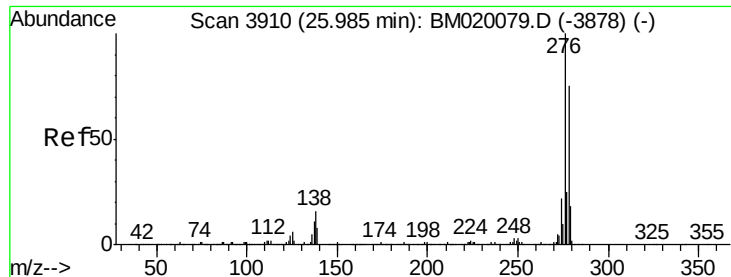
Sohil
5/14/2019 8:07:37 PM



#83
Chrysene
Concen: 41.375 ng
RT: 21.39 min Scan# 3128
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
228	100		910032		
226	30.5	23.0	34.6		
229	20.3	15.5	23.3		





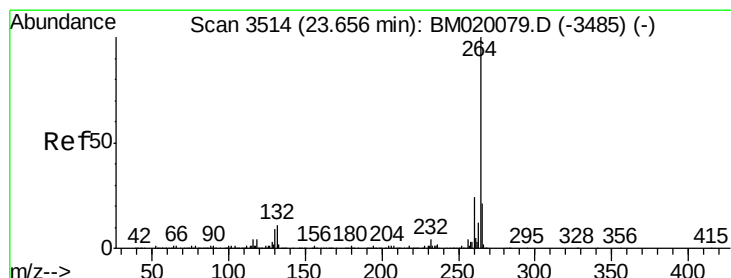
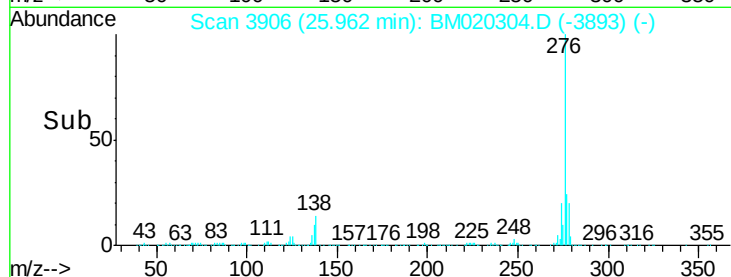
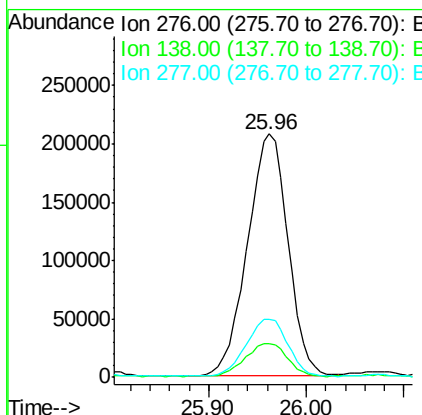
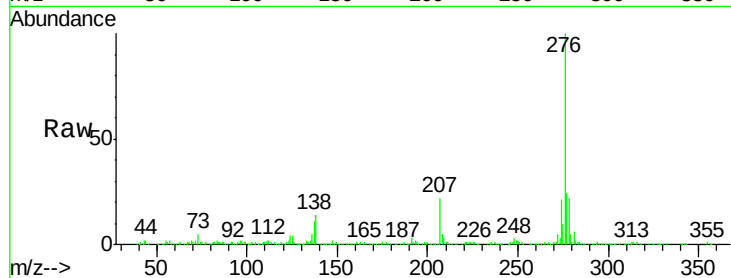
#86
Indeno(1,2,3-cd)pyrene
Concen: 22.932 ng
RT: 25.96 min Scan# 3906
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	14.4	0.0	0.0#
277	24.5	0.0	0.0#

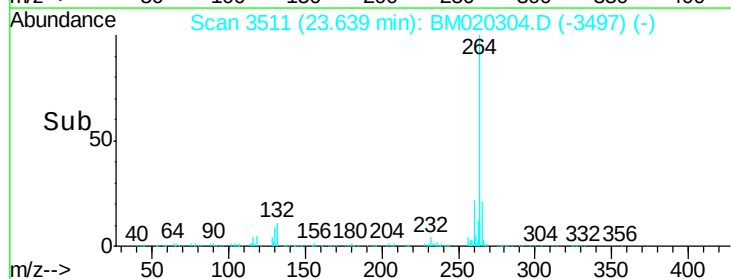
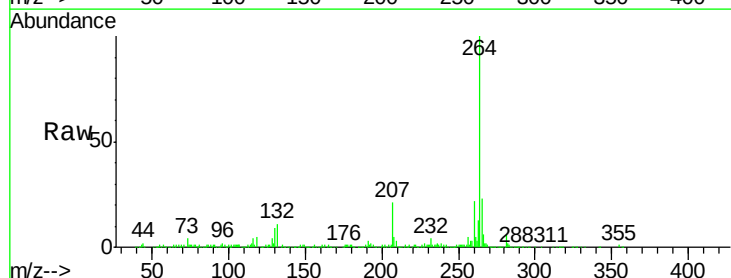
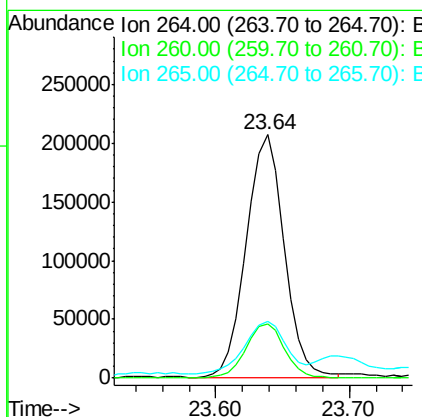
Manual Integrations
APPROVED

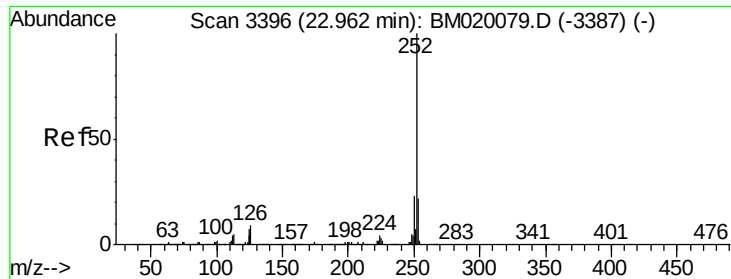
Sohil
5/14/2019 8:07:37 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 23.64 min Scan# 3511
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	22.5	19.2	28.8
265	23.2	16.9	25.3





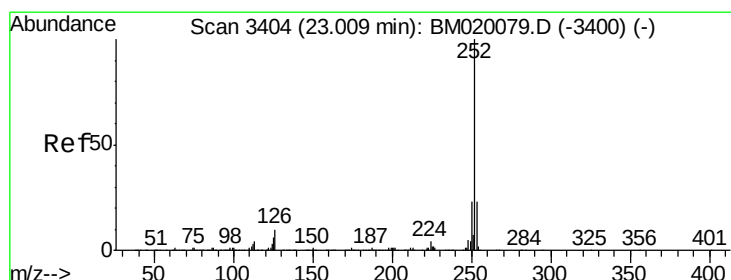
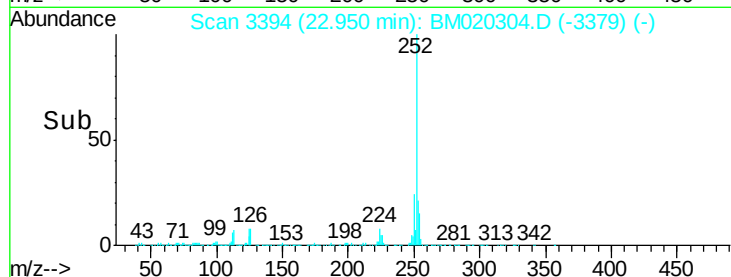
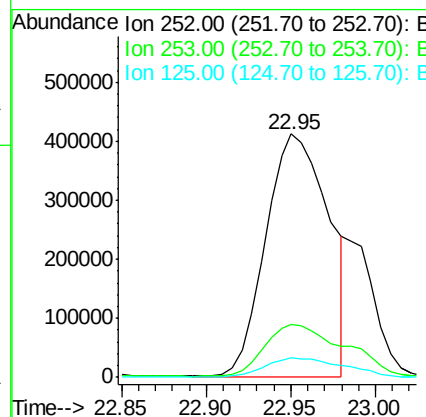
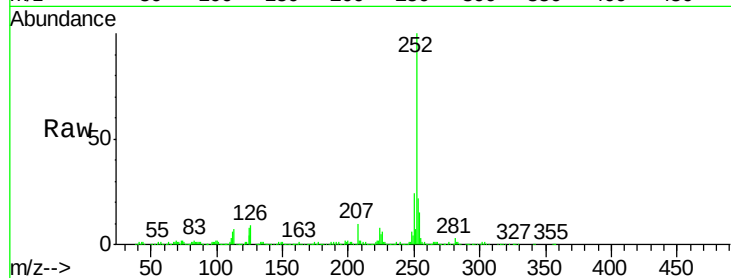
#88
Benzo(b)fluoranthene
Concen: 39.957 ng m
RT: 22.95 min Scan# 3394
Delta R.T. -0.01 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	8.1	5.4	8.2

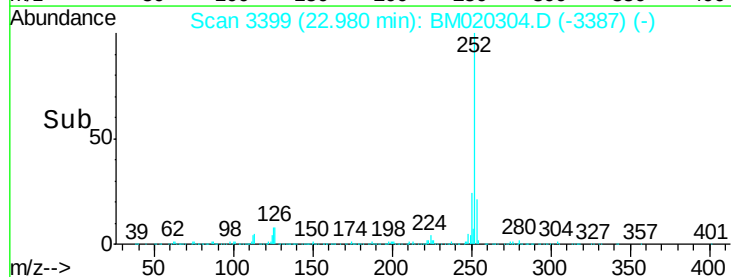
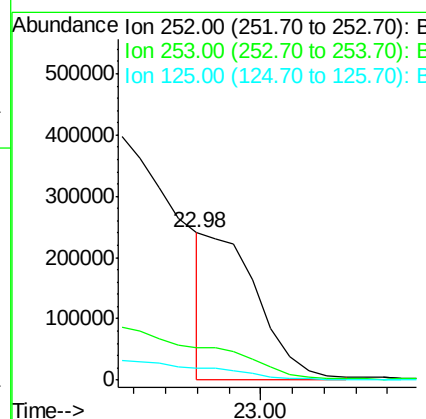
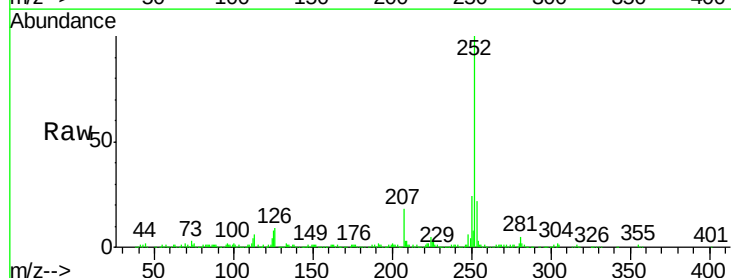
Manual Integrations
APPROVED

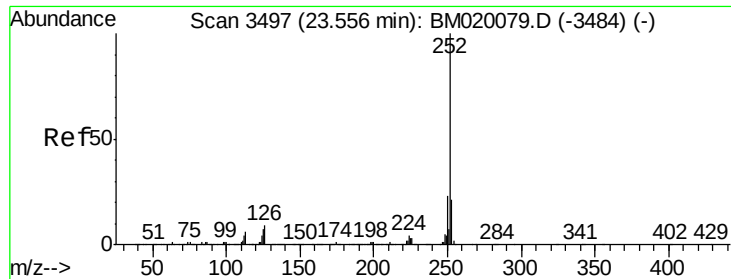
Sohil
5/14/2019 8:07:37 PM



#89
Benzo(k)fluoranthene
Concen: 11.071 ng m
RT: 22.98 min Scan# 3399
Delta R.T. -0.03 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.8
125	8.4	5.4	8.0





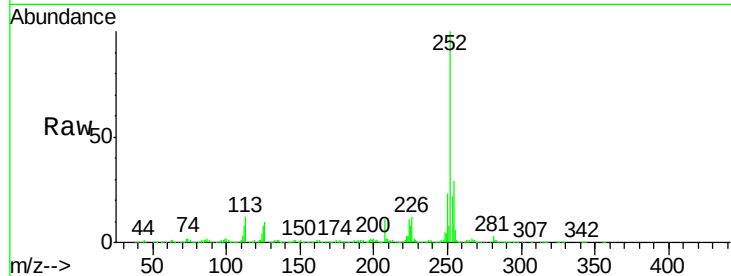
#90
Benzo(a)pyrene
Concen: 29.839 ng
RT: 23.54 min Scan# 3494
Delta R.T. -0.02 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Instrument :
BNA_M
ClientSampleId :
P026-SS013-1218-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	7.7	5.5	8.3

Manual Integrations
APPROVED

Sohil
5/14/2019 8:07:37 PM

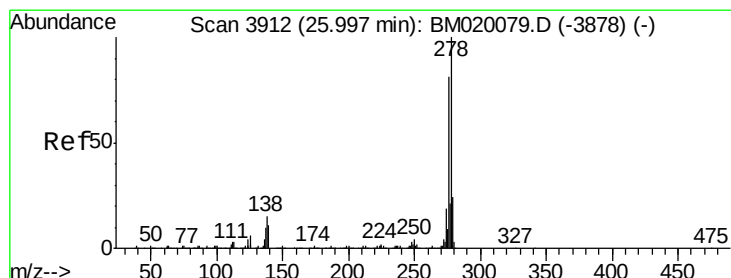
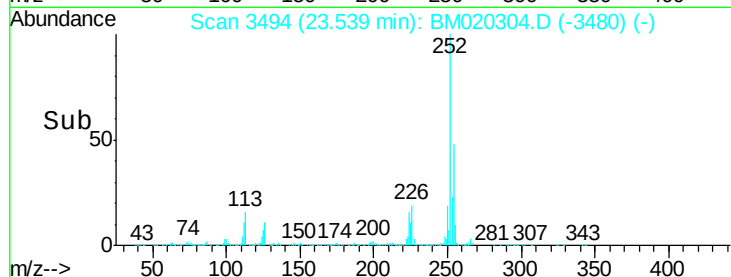
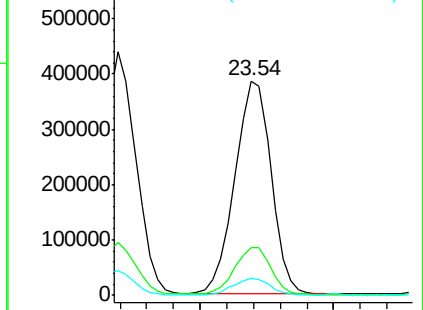


Abundance

Ion 252.00 (251.70 to 252.70): E

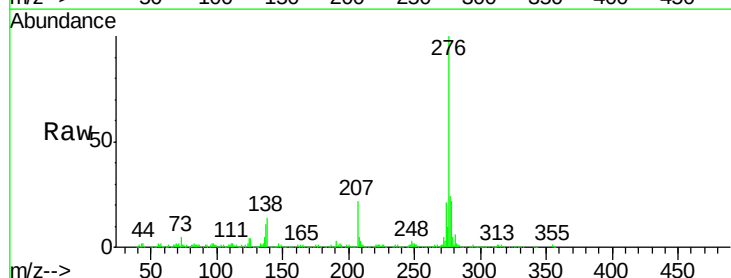
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 6.009 ng
RT: 25.96 min Scan# 3906
Delta R.T. -0.04 min
Lab File: BM020304.D
Acq: 12 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	8.6	13.0#
279	21.9	18.8	28.2

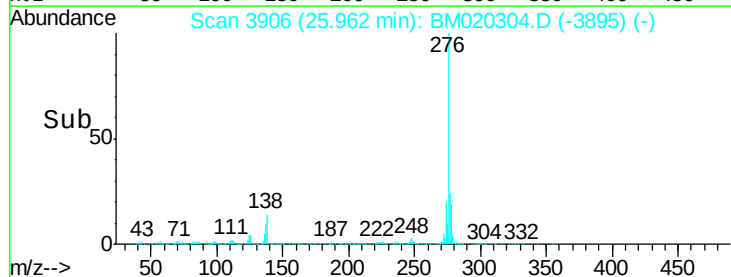
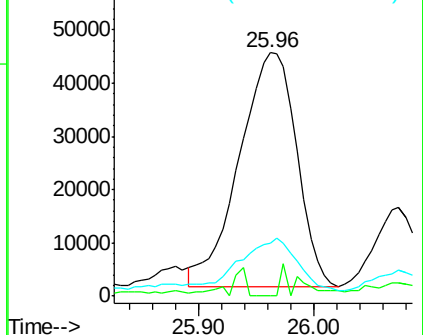


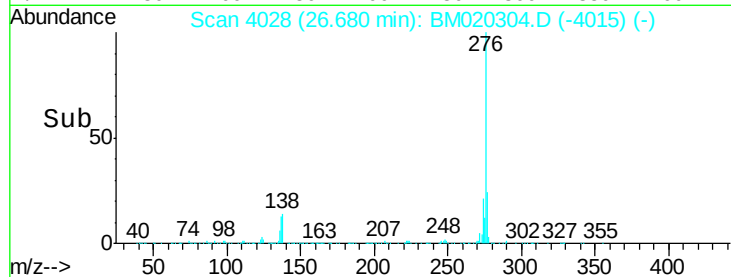
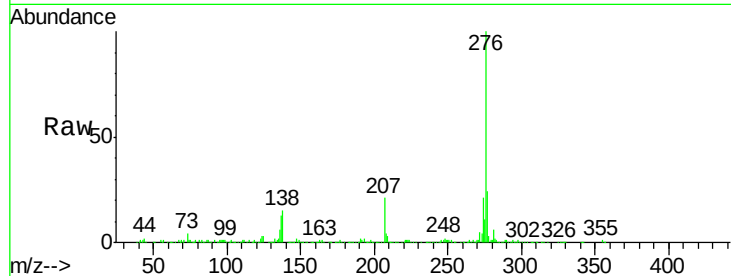
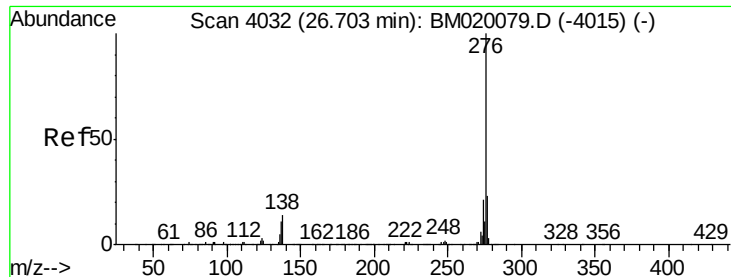
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 30.101 ng
 RT: 26.68 min Scan# 4028
 Delta R.T. -0.02 min
 Lab File: BM020304.D
 Acq: 12 May 2019 18:30

Instrument :
 BNA_M
 ClientSampleId :
 P026-SS013-1218-01

Tot Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	24.0	18.4	27.6
138	14.5	11.1	16.7

Manual Integrations
 APPROVED

Sohil
 5/14/2019 8:07:37 PM

