

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031419\
 Data File : BM019174.D
 Acq On : 14 Mar 2019 18:05
 Operator : JU/SJ
 Sample : K1899-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MW-4A

Manual Integrations
 APPROVED

Sohil
 3/15/2019 5:51:11 PM

Quant Time: Mar 15 07:20:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 11 17:30:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	245424	20.00	ng	0.00
21) Naphthalene-d8	10.46	136	1115236	20.00	ng	0.01
39) Acenaphthene-d10	14.32	164	728625	20.00	ng	0.00
64) Phenanthrene-d10	17.07	188	1692247	20.00	ng	0.00
76) Chrysene-d12	21.27	240	1443335	20.00	ng	0.00
87) Perylene-d12	23.50	264	1232855	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	888679	58.64	ng	0.00
7) Phenol-d6	6.85	99	825055	37.22	ng	0.00
23) Nitrobenzene-d5	8.83	82	2073693	87.90	ng	0.00
42) 2,4,6-Tribromophenol	15.82	330	1469715	136.62	ng	0.00
45) 2-Fluorobiphenyl	12.93	172	4495781	80.26	ng	0.00
79) Terphenyl-d14	19.70	244	6880735	94.64	ng	0.00
Target Compounds						
17) 2-Methylphenol	8.11	107	196327	12.611	ng	95
20) 3+4-Methylphenols	8.44	107	70674	3.345	ng	# 80
27) 2,4-Dimethylphenol	9.65	122	393385m	26.017	ng	
31) Naphthalene	10.50	128	41259783m	701.922	ng	
37) 2-Methylnaphthalene	12.13	142	22918965m	536.558	ng	
38) 1-Methylnaphthalene	12.36	142	23580750m	560.079	ng	
46) 1,1'-Biphenyl	13.15	154	5507494	86.553	ng	99
49) Acenaphthylene	14.03	152	202847	2.526	ng	# 39
52) Acenaphthene	14.39	154	8693202	188.381	ng	99
55) Dibenzofuran	14.72	168	8017640	107.734	ng	99
58) Fluorene	15.37	166	4919297	80.193	ng	99
71) Phenanthrene	17.11	178	3959455	39.918	ng	99
72) Anthracene	17.20	178	724071	7.457	ng	97
73) Carbazole	17.49	167	1695818	18.504	ng	100
75) Fluoranthene	19.13	202	294980	2.592	ng	97
78) Pyrene	19.50	202	189193	2.072	ng	94

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

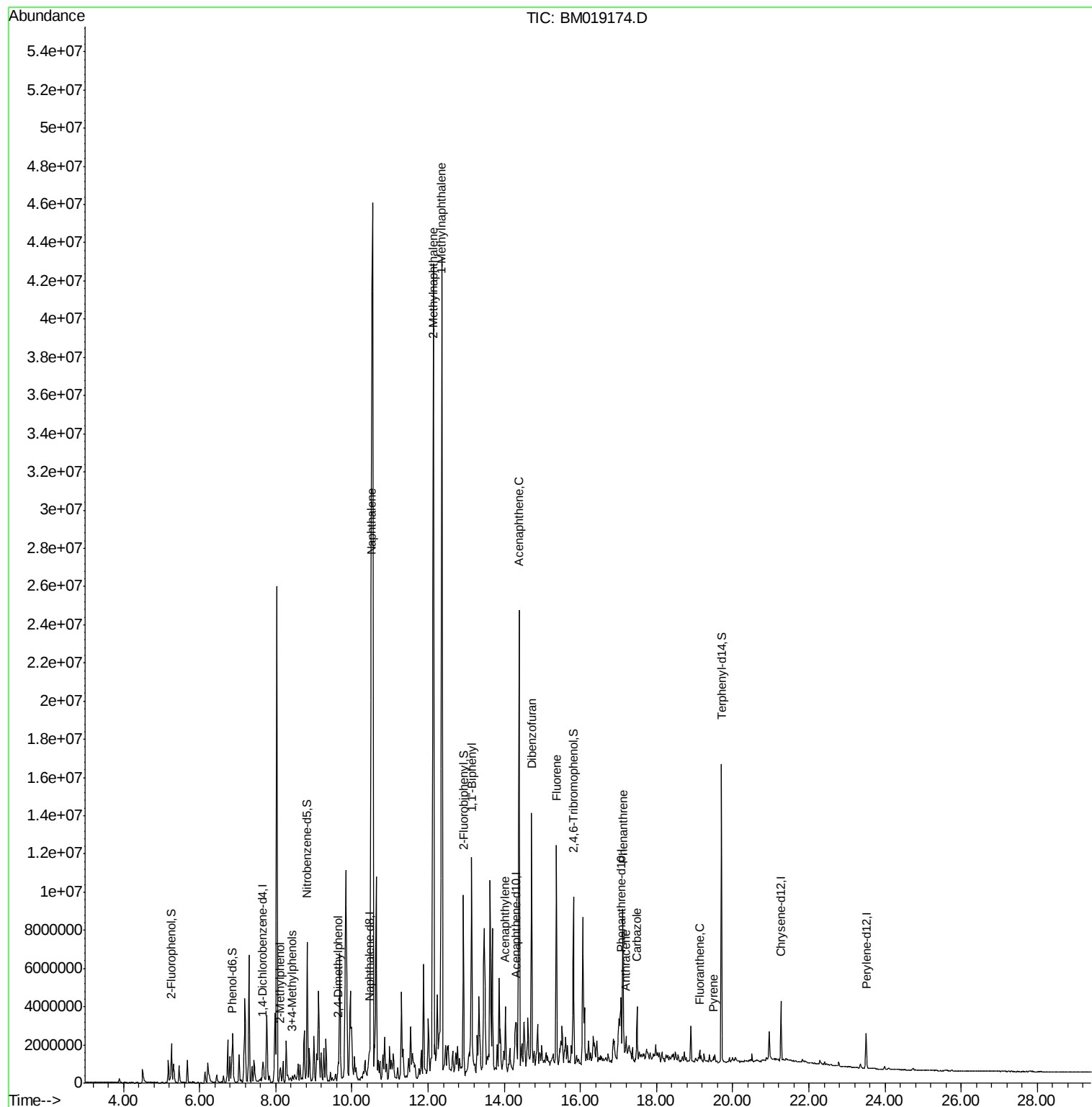
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031419\
Data File : BM019174.D
Acq On : 14 Mar 2019 18:05
Operator : JU/SJ
Sample : K1899-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

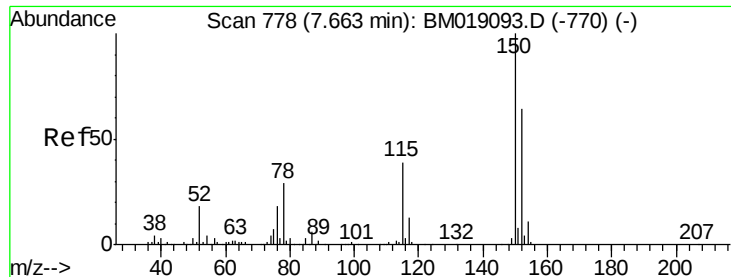
Instrument :
BNA_M
ClientSampleId :
MW-4A

Manual Integrations
APPROVED

Sohil
3/15/2019 5:51:11 PM

Quant Time: Mar 15 07:20:37 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 11 17:30:46 2019
Response via : Initial Calibration





#1

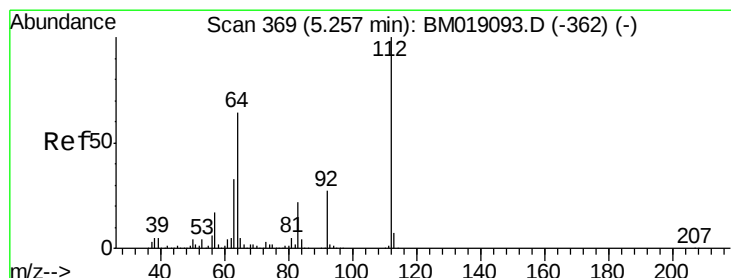
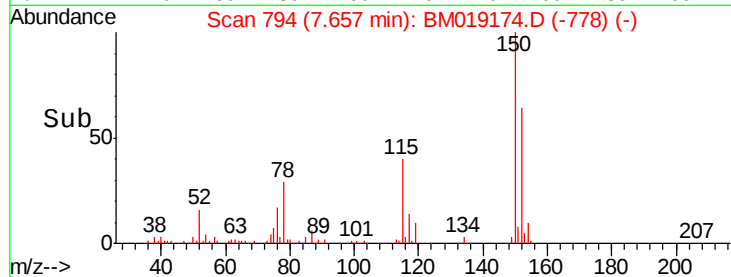
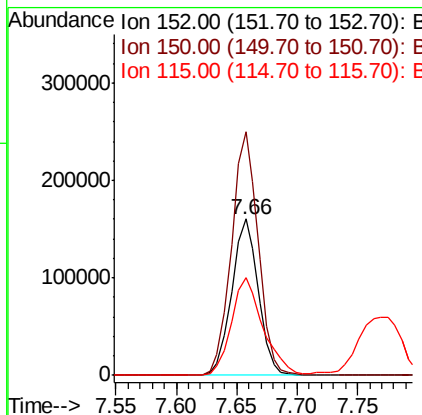
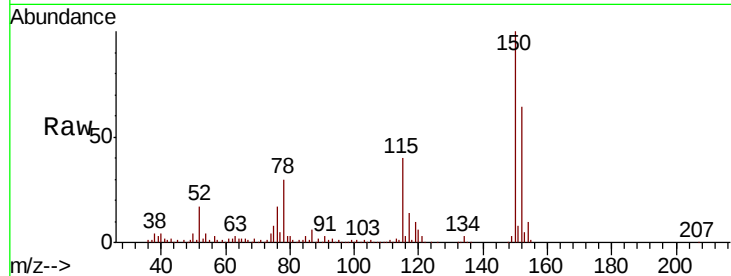
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.66 min Scan# 794
Delta R.T. -0.01 min
Lab File: BM019174.D
Acq: 14 Mar 2019 18:05

Instrument :
BNA_M
ClientSampleId :
MW-4A

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	125.3	187.9
115	62.3	49.4	74.0

Manual Integrations
APPROVED

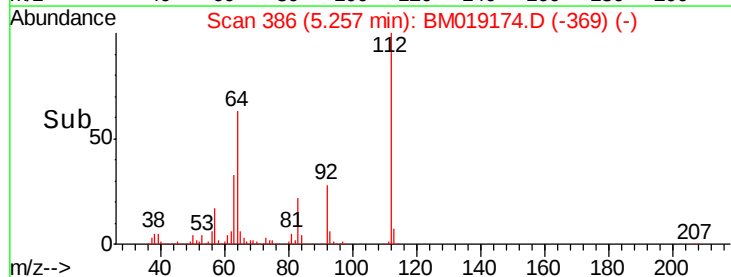
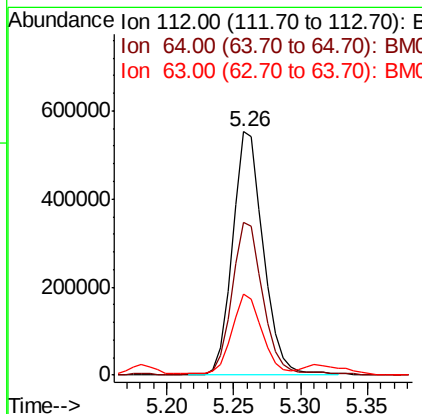
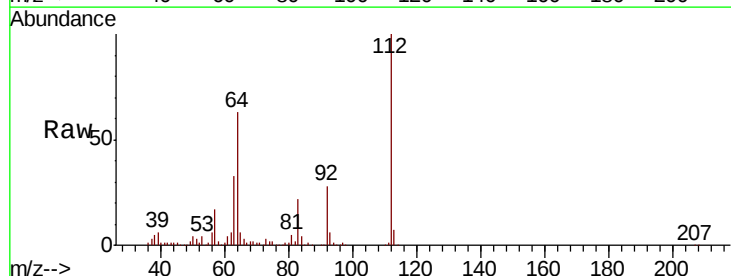
Sohil
3/15/2019 5:51:11 PM

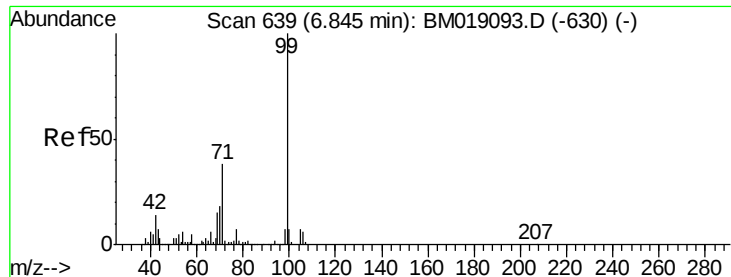


#5

2-Fluorophenol
Concen: 58.641 ng
RT: 5.26 min Scan# 386
Delta R.T. 0.00 min
Lab File: BM019174.D
Acq: 14 Mar 2019 18:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.8	51.4	77.0
63	33.1	26.6	40.0





#7

Phenol-d6

Concen: 37.221 ng

RT: 6.85 min Scan# 656

Delta R.T. 0.00 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Instrument :

BNA_M

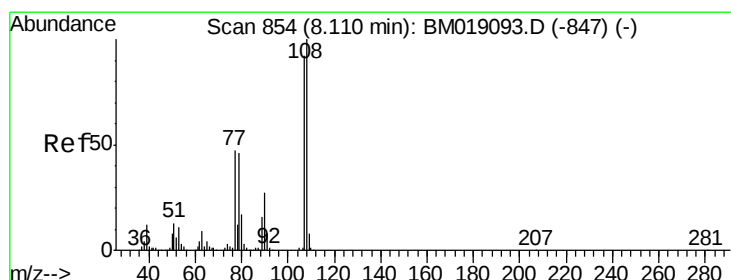
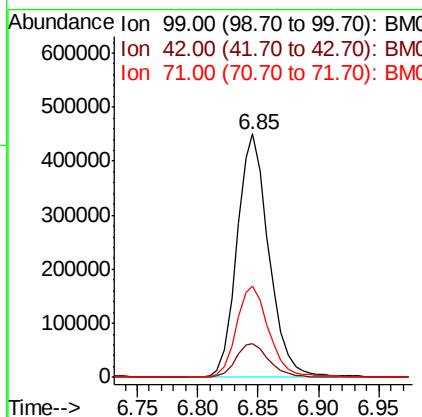
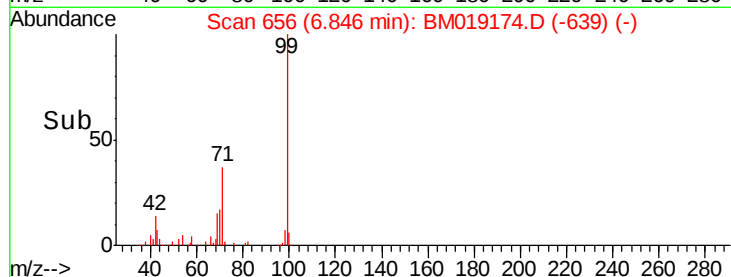
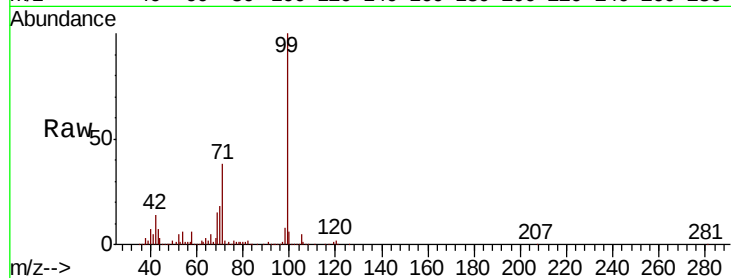
ClientSampleId :

MW-4A

Tot Ion	Ratio	Resp	Lower	Upper
99	100	825055		
42	13.9		10.9	16.3
71	37.6		30.3	45.5

Manual Integrations
APPROVED

Sohil
3/15/2019 5:51:11 PM



#17

2-Methylphenol

Concen: 12.611 ng

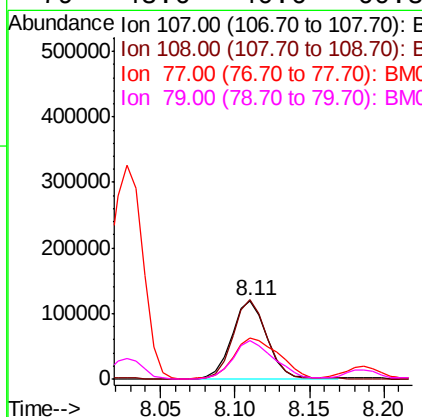
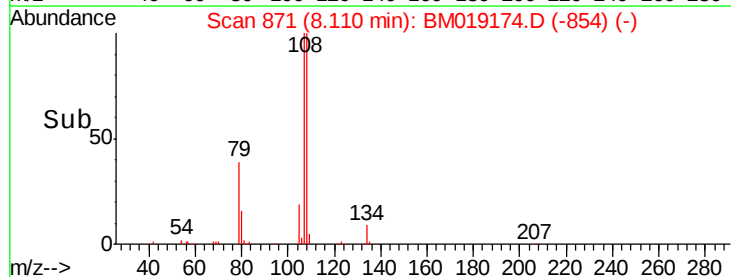
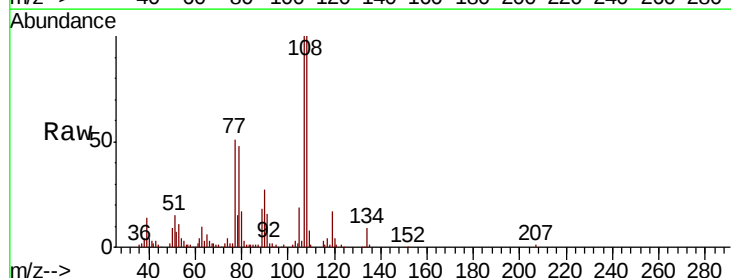
RT: 8.11 min Scan# 871

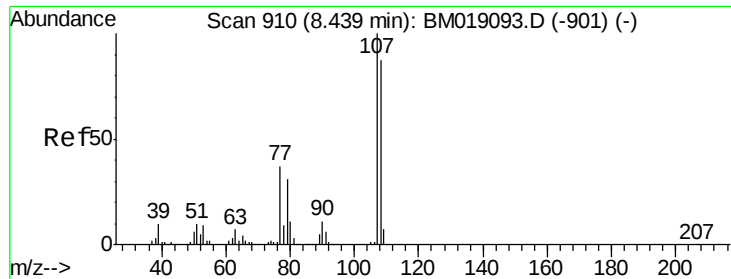
Delta R.T. 0.00 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	196327		
108	100.4		87.4	131.2
77	51.6		41.6	62.4
79	48.6		40.6	60.8





#20

3+4-Methylphenols

Concen: 3.345 ng

RT: 8.44 min Scan# 927

Delta R.T. 0.00 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Instrument :

BNA_M

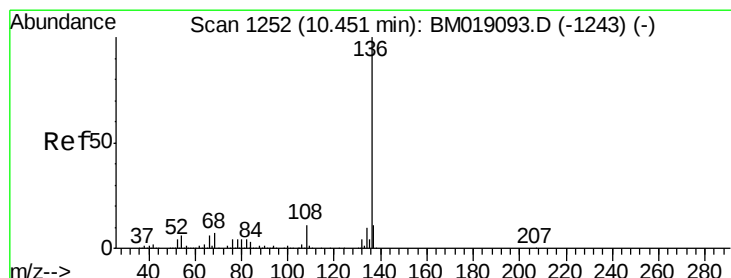
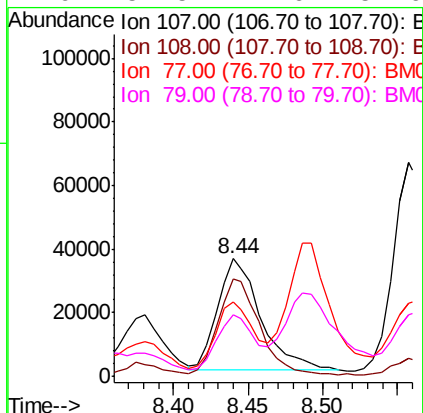
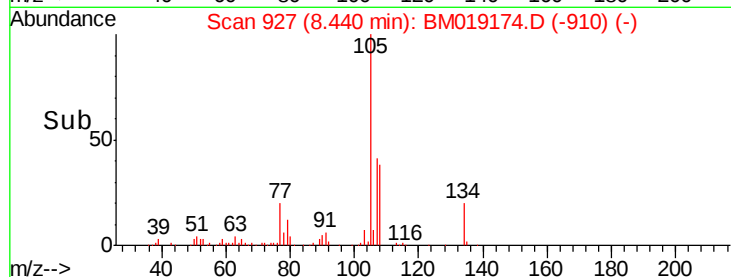
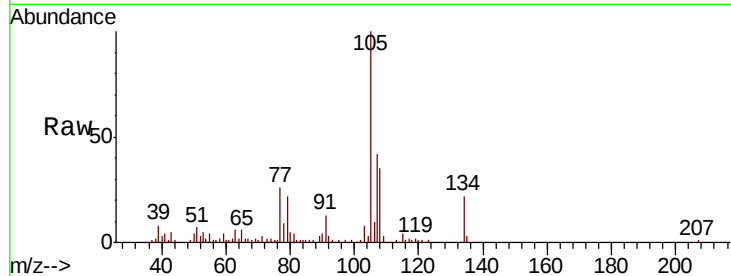
ClientSampled :

MW-4A

Tot Ion	Ratio	Lower	Upper
107	100		
108	83.3	67.0	107.0
77	63.3	17.3	57.3#
79	52.5	11.6	51.6#

Manual Integrations
APPROVED

Sohil
3/15/2019 5:51:11 PM



#21

Naphthalene-d8

Concen: 20.000 ng

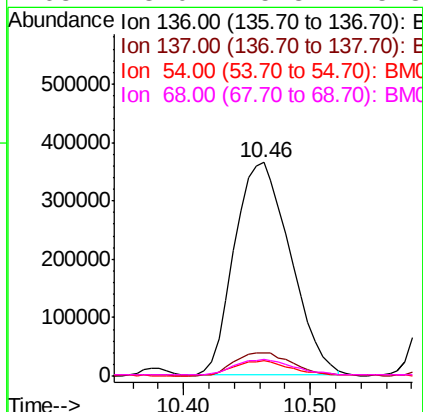
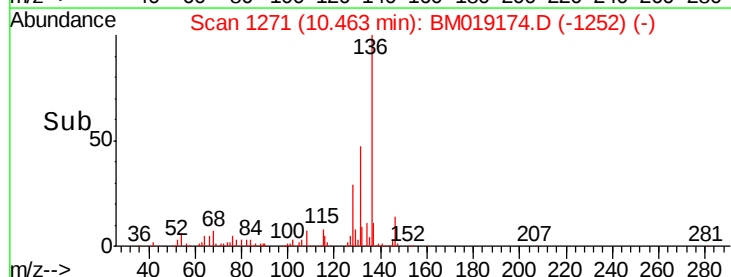
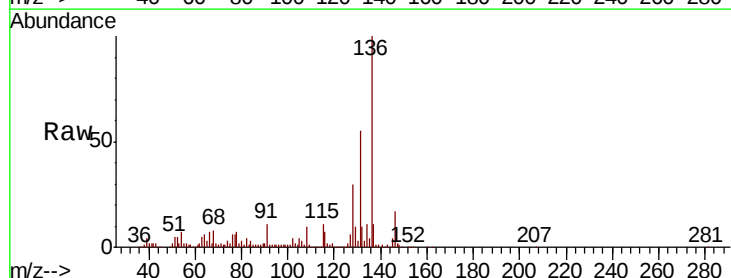
RT: 10.46 min Scan# 1271

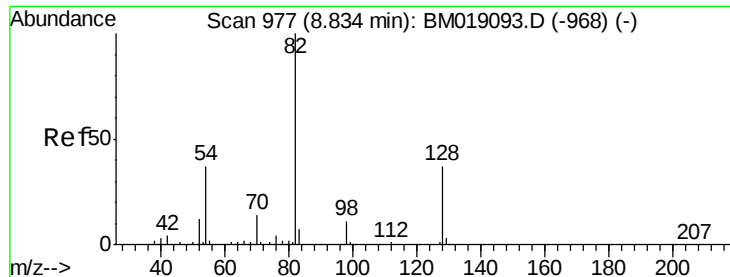
Delta R.T. 0.01 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	7.0	5.2	7.8
68	8.0	5.8	8.8





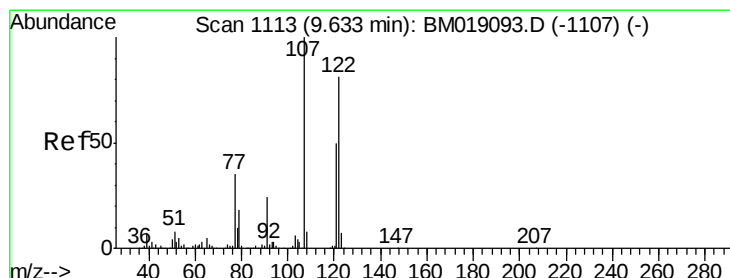
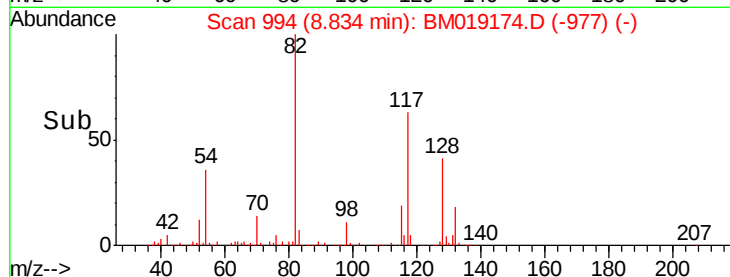
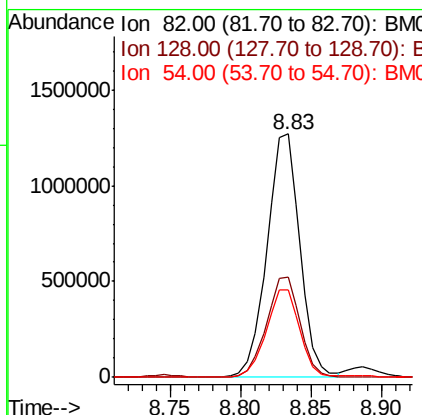
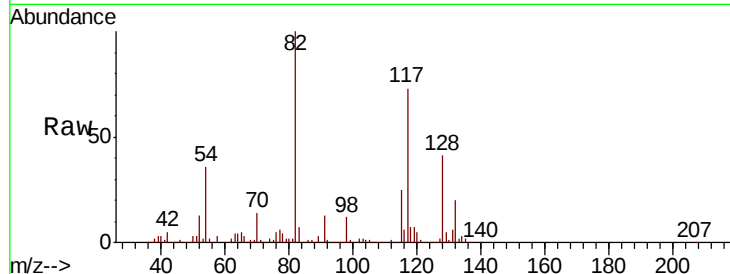
#23
Nitrobenzene-d5
Concen: 87.895 ng
RT: 8.83 min Scan# 994
Delta R.T. 0.00 min
Lab File: BM019174.D
Acq: 14 Mar 2019 18:05

Instrument :
BNA_M
ClientSampled :
MW-4A

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.1	29.4	44.2
54	36.1	29.9	44.9

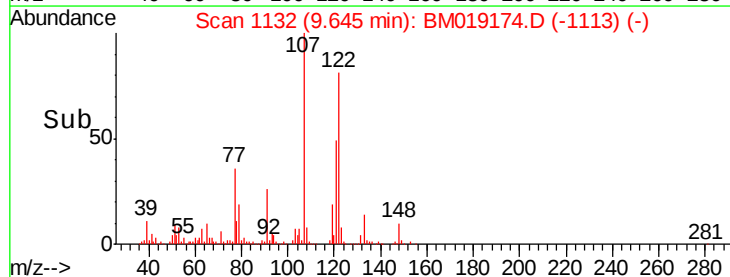
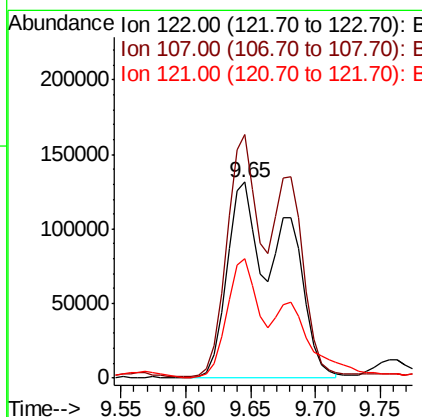
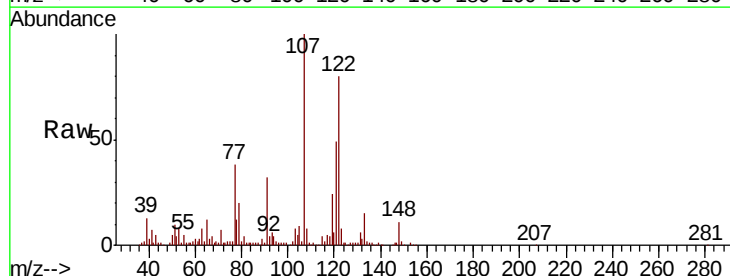
Manual Integrations
APPROVED

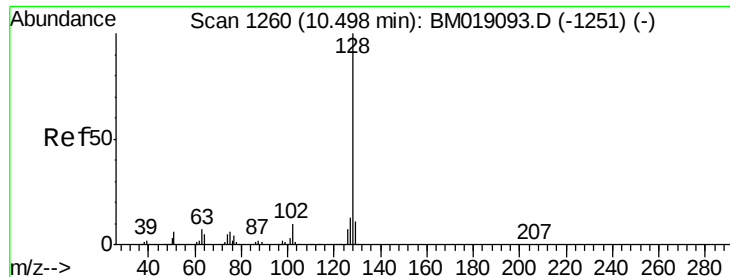
Sohil
3/15/2019 5:51:11 PM



#27
2,4-Dimethylphenol
Concen: 26.017 ng m
RT: 9.65 min Scan# 1132
Delta R.T. 0.01 min
Lab File: BM019174.D
Acq: 14 Mar 2019 18:05

Tgt Ion	Ratio	Lower	Upper
122	100		
107	124.3	98.2	147.4
121	60.8	48.8	73.2





#31

Naphthalene

Concen: 701.922 ng m

RT: 10.50 min Scan# 1277

Delta R.T. 0.00 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Instrument :

BNA_M

ClientSampled :

MW-4A

Tot Ion:128 Resp:41259783

Ion Ratio Lower Upper

128 100

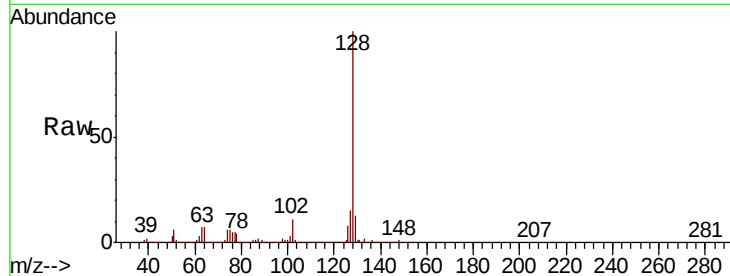
129 13.3 8.6 13.0#

127 15.4 10.4 15.6

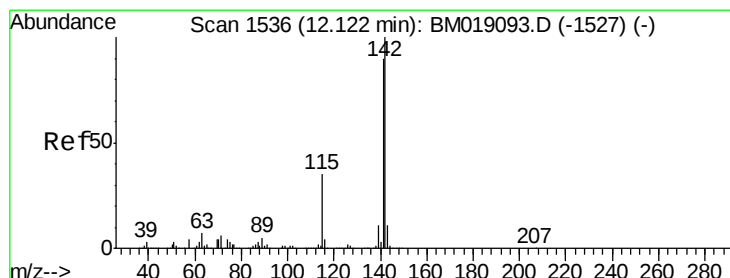
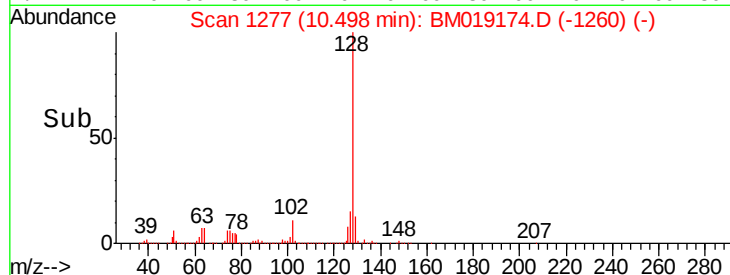
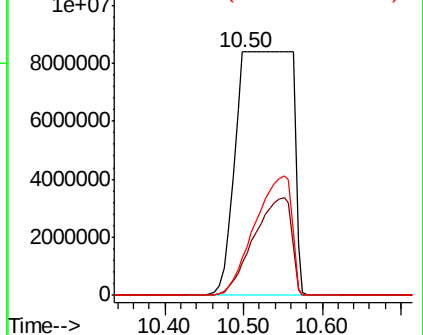
Manual Integrations
APPROVED

Sohil

3/15/2019 5:51:11 PM



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: 536.558 ng m

RT: 12.13 min Scan# 1554

Delta R.T. 0.01 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

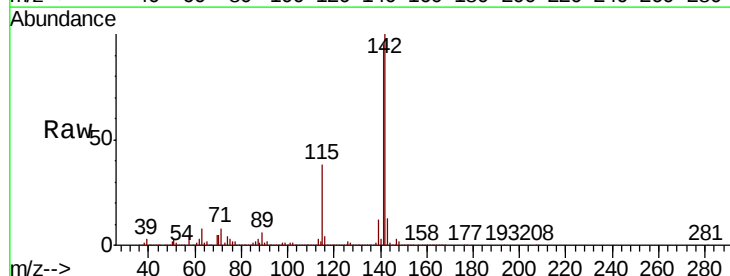
Tgt Ion:142 Resp:22918965

Ion Ratio Lower Upper

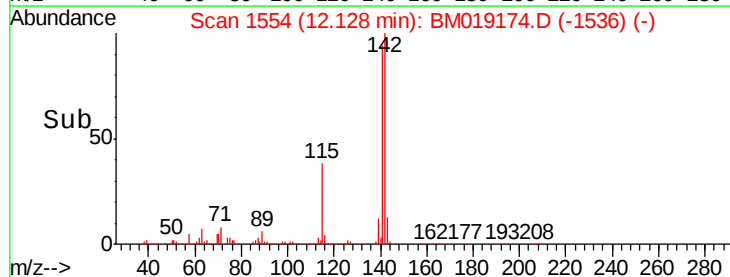
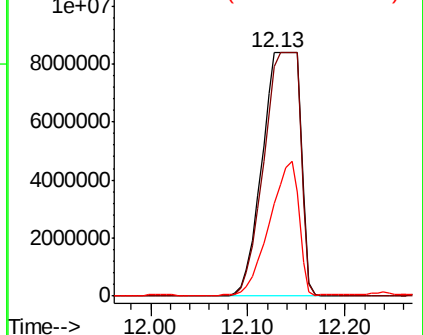
142 100

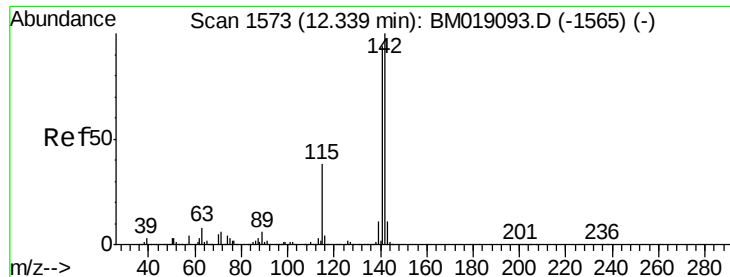
141 94.5 72.3 108.5

115 38.2 27.8 41.8



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





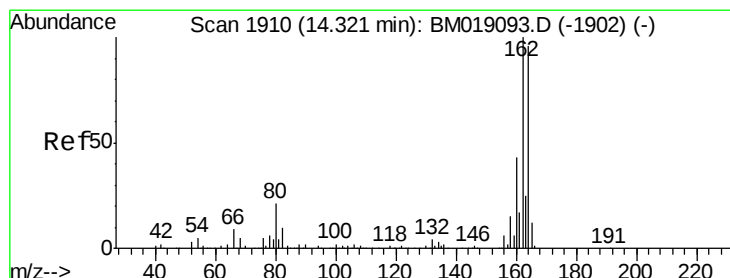
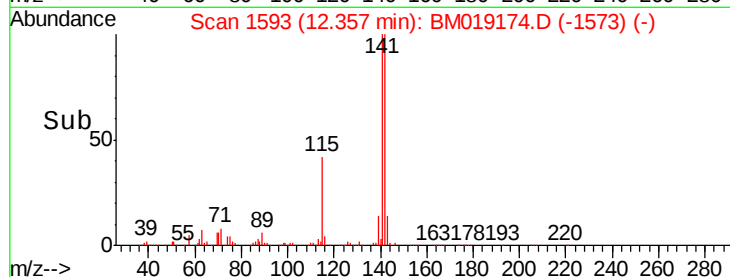
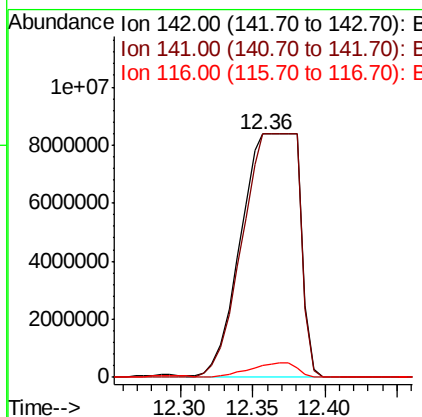
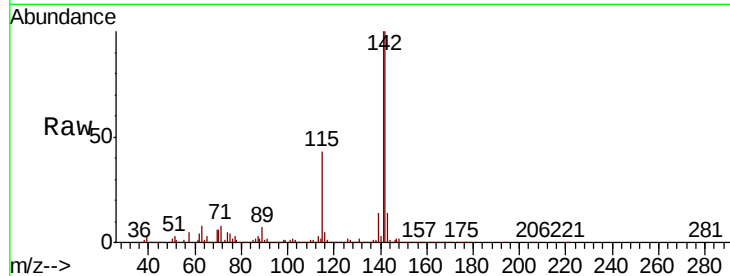
#38
1-Methylnaphthalene
Concen: 560.079 ng m
RT: 12.36 min Scan# 1593
Delta R.T. 0.02 min
Lab File: BM019174.D
Acq: 14 Mar 2019 18:05

Instrument :
BNA_M
ClientSampled :
MW-4A

Tot Ion:142 Resp:23580750
Ion Ratio Lower Upper
142 100
141 100.0 74.9 112.3
116 4.8 3.2 4.8#

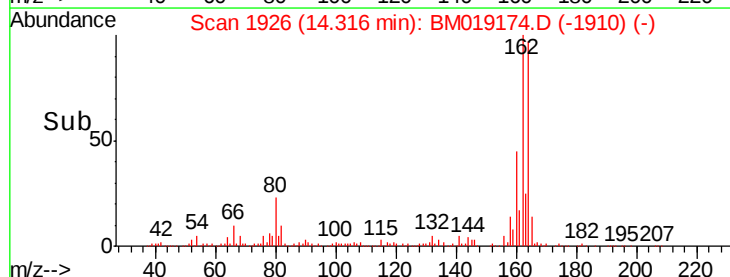
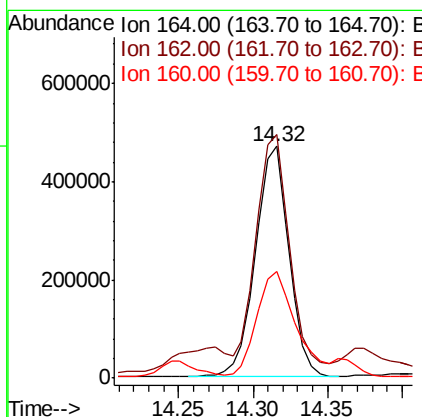
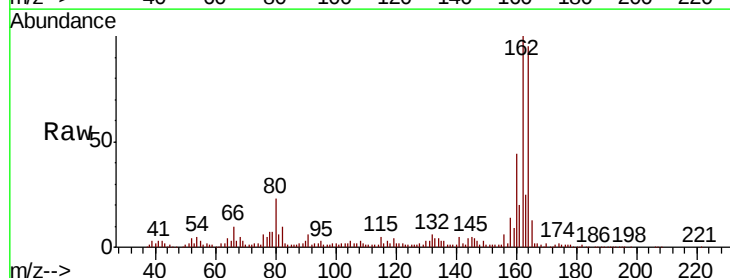
Manual Integrations
APPROVED

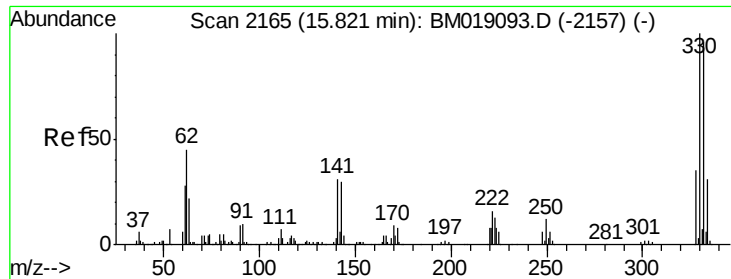
Sohil
3/15/2019 5:51:11 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.32 min Scan# 1926
Delta R.T. -0.01 min
Lab File: BM019174.D
Acq: 14 Mar 2019 18:05

Tgt Ion:164 Resp: 728625
Ion Ratio Lower Upper
164 100
162 105.1 83.5 125.3
160 46.2 36.3 54.5





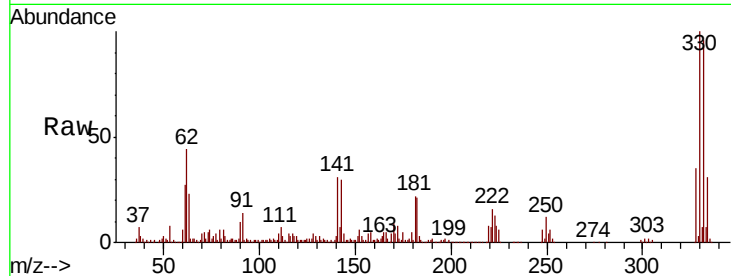
#42
 2,4,6-Tribromophenol
 Concen: 136.617 ng
 RT: 15.82 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: BM019174.D
 Acq: 14 Mar 2019 18:05

Instrument :
 BNA_M
 ClientSampleId :
 MW-4A

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.8	115.2
141	31.6	27.0	40.4

Manual Integrations
 APPROVED

Sohil
 3/15/2019 5:51:11 PM

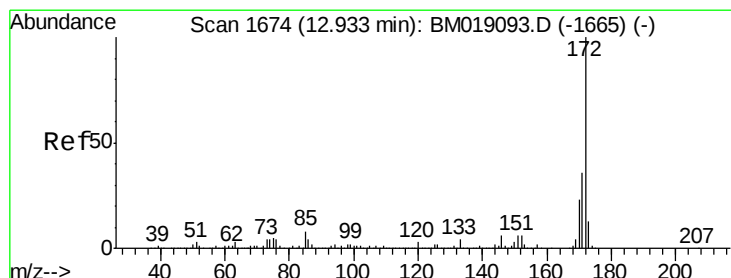
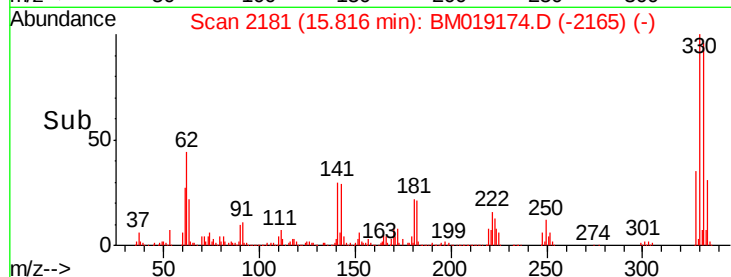
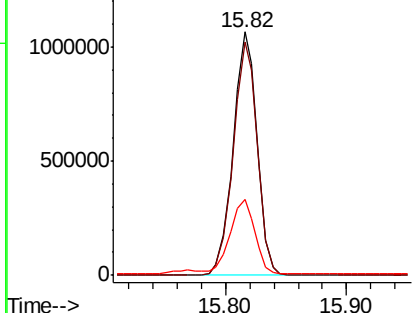


Abundance

Ion 329.80 (329.50 to 330.50): E

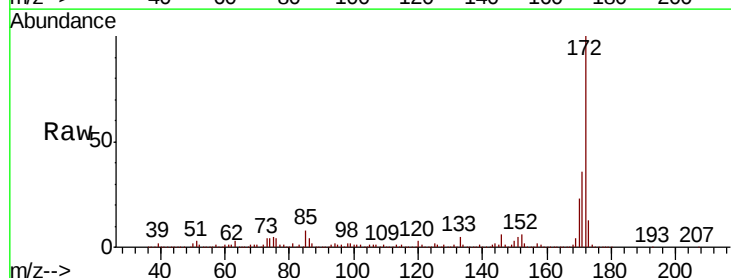
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 80.260 ng
 RT: 12.93 min Scan# 1690
 Delta R.T. -0.01 min
 Lab File: BM019174.D
 Acq: 14 Mar 2019 18:05

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	42.8
170	23.4	18.6	28.0

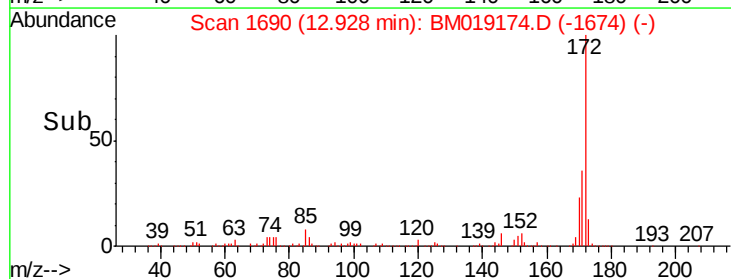
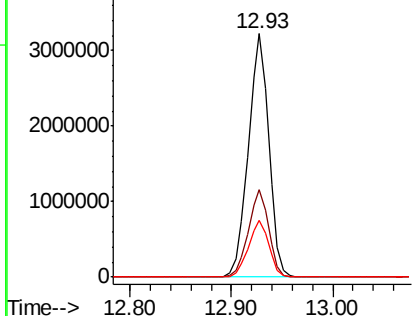


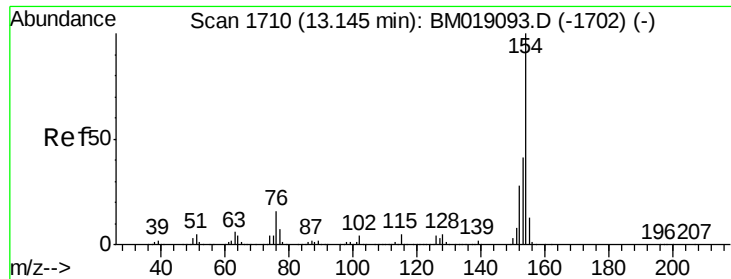
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#46

1,1'-Biphenyl

Concen: 86.553 ng

RT: 13.15 min Scan# 1727

Delta R.T. 0.00 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Instrument :

BNA_M

Client Sampled :

MW-4A

Tot Ion:154 Resp: 5507494

Ion Ratio Lower Upper

154 100

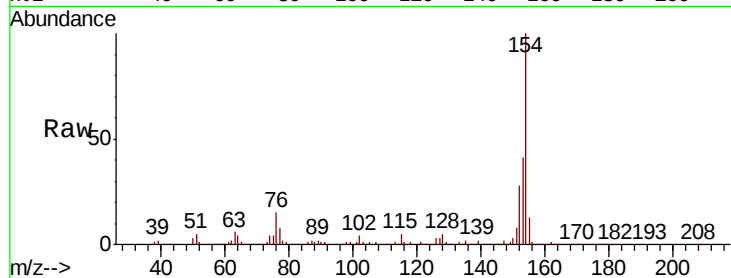
153 41.1 21.5 61.5

76 15.5 0.0 35.8

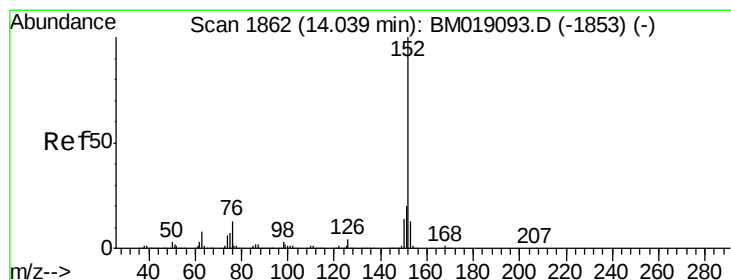
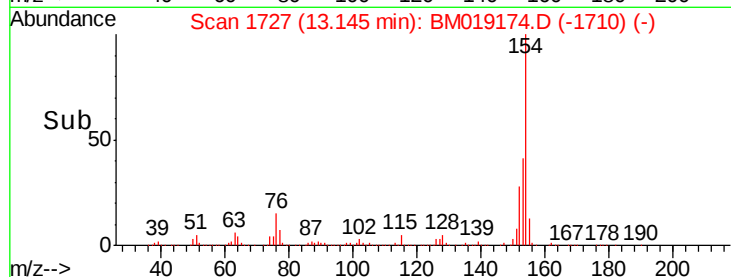
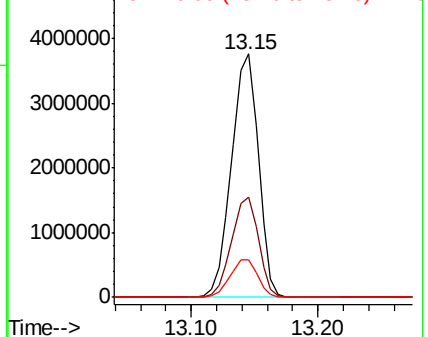
Manual Integrations
APPROVED

Sohil

3/15/2019 5:51:11 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BM



#49

Acenaphthylene

Concen: 2.526 ng

RT: 14.03 min Scan# 1878

Delta R.T. -0.01 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

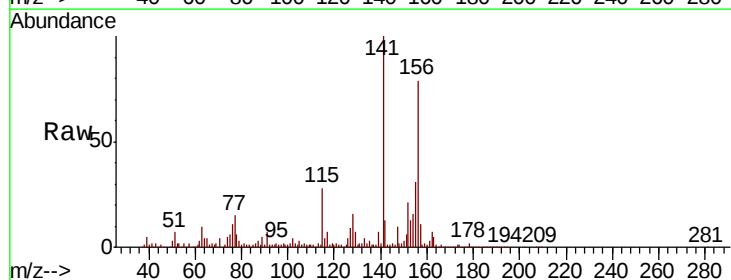
Tgt Ion:152 Resp: 202847

Ion Ratio Lower Upper

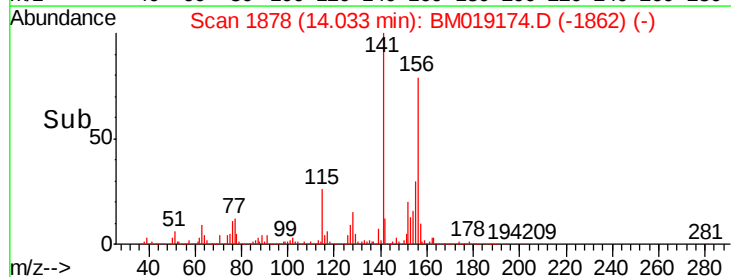
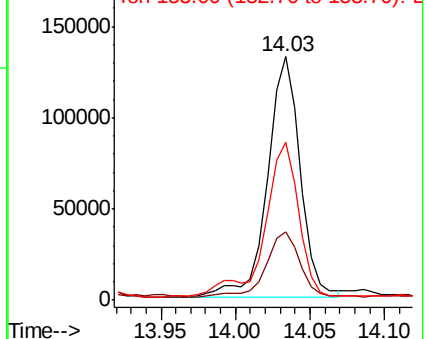
152 100

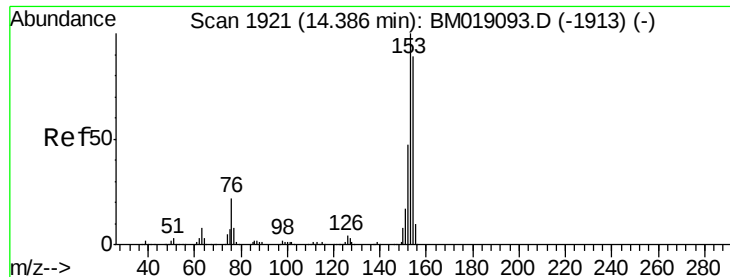
151 27.9 16.2 24.2#

153 64.7 10.6 15.8#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#52

Acenaphthene

Concen: 188.381 ng

RT: 14.39 min Scan# 1938

Delta R.T. 0.00 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Instrument :

BNA_M

ClientSampleId :

MW-4A

Tot Ion:154 Resp: 8693202

Ion Ratio Lower Upper

154 100

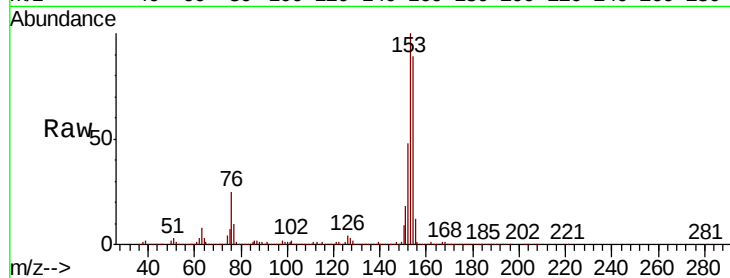
153 112.6 90.1 135.1

152 54.5 42.5 63.7

Manual Integrations
APPROVED

Sohil

3/15/2019 5:51:11 PM

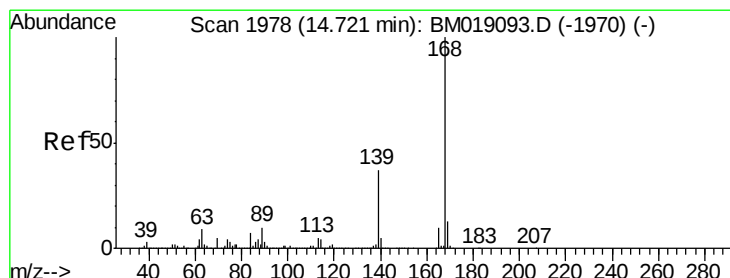
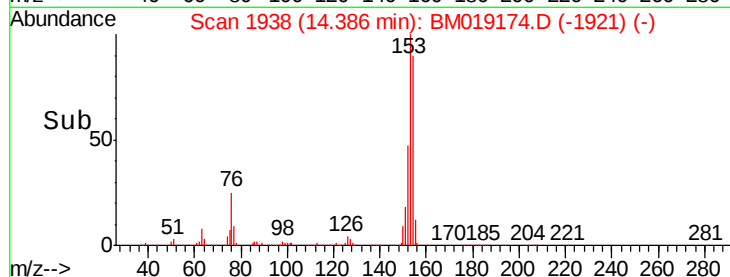
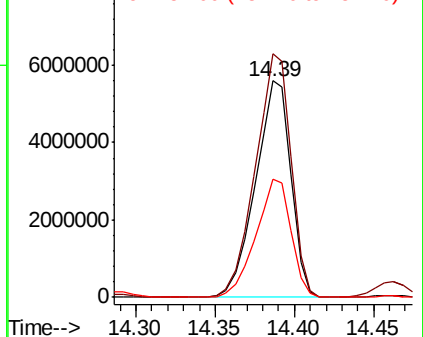


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 107.734 ng

RT: 14.72 min Scan# 1995

Delta R.T. 0.00 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

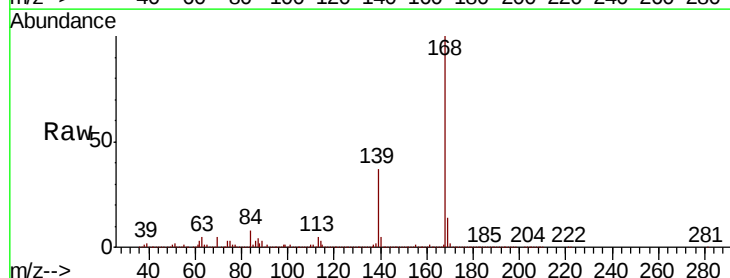
Tgt Ion:168 Resp: 8017640

Ion Ratio Lower Upper

168 100

139 36.9 30.1 45.1

169 14.0 10.6 16.0

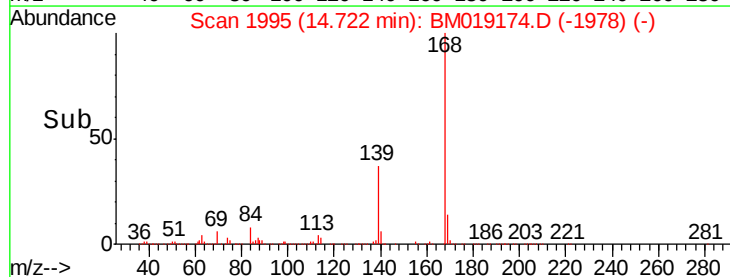
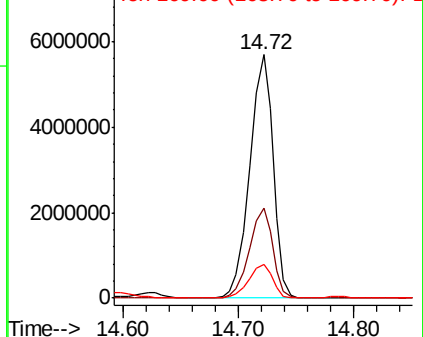


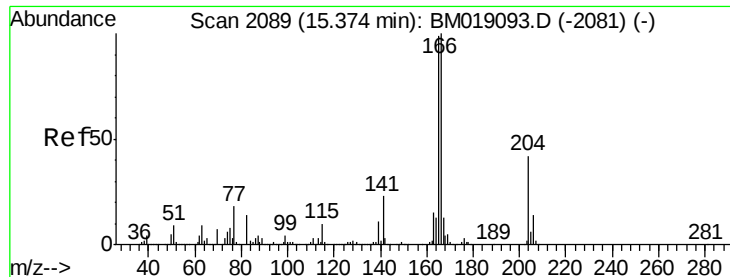
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





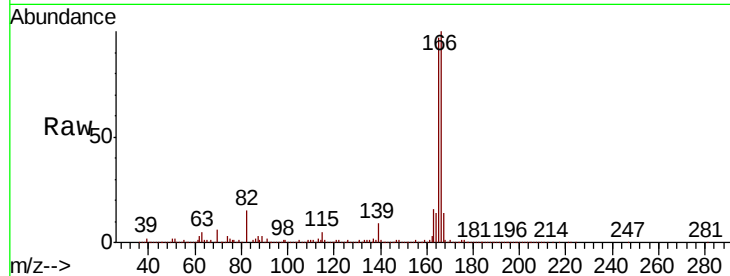
#58
 Fluorene
 Concen: 80.193 ng
 RT: 15.37 min Scan# 2105
 Delta R.T. -0.01 min
 Lab File: BM019174.D
 Acq: 14 Mar 2019 18:05

Instrument :
 BNA_M
 ClientSampled :
 MW-4A

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	97.3	79.0	118.4	
167	14.3	10.8	16.2	

Manual Integrations
 APPROVED

Sohil
 3/15/2019 5:51:11 PM

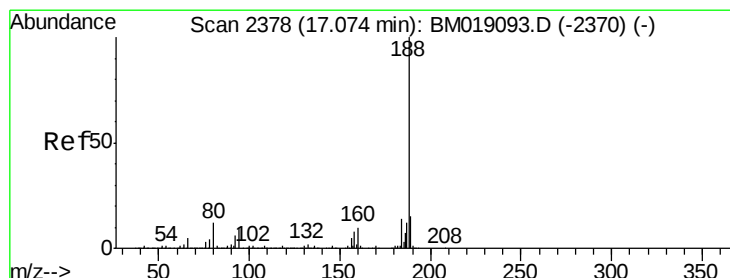
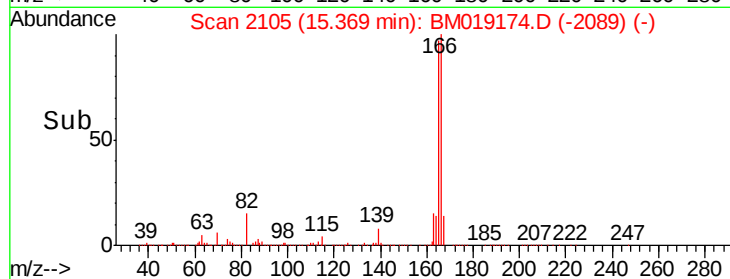
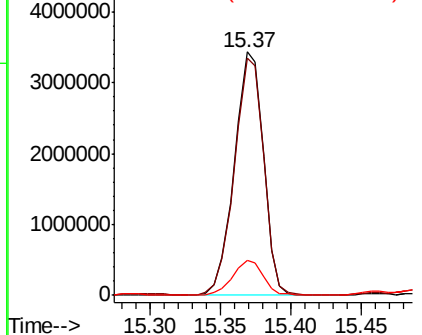


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.07 min Scan# 2394
 Delta R.T. -0.01 min
 Lab File: BM019174.D
 Acq: 14 Mar 2019 18:05

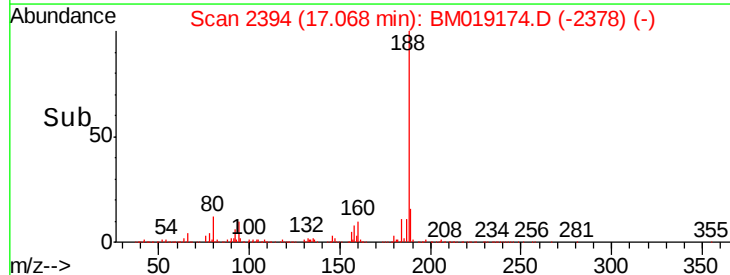
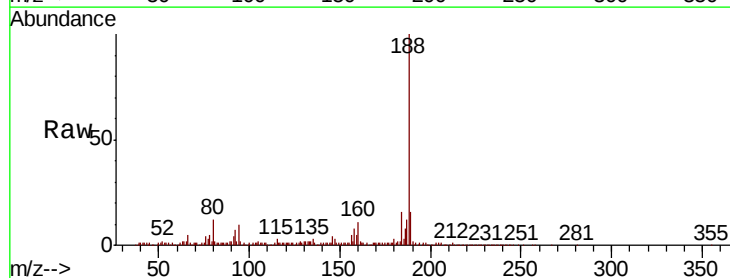
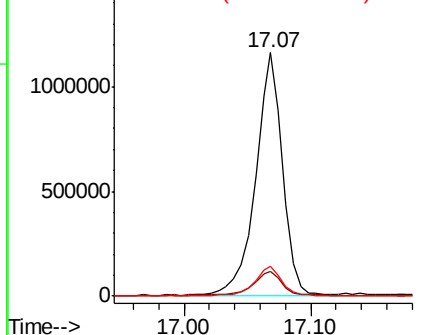
Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	10.3	8.1	12.1	
80	12.1	9.7	14.5	

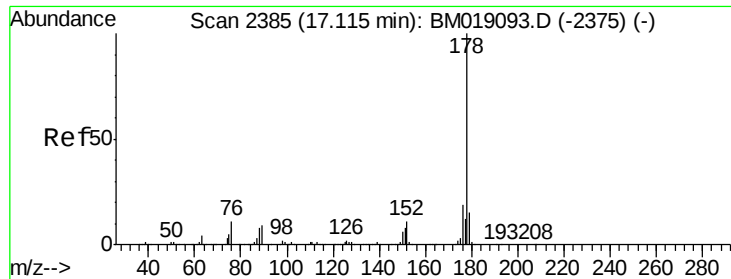
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0





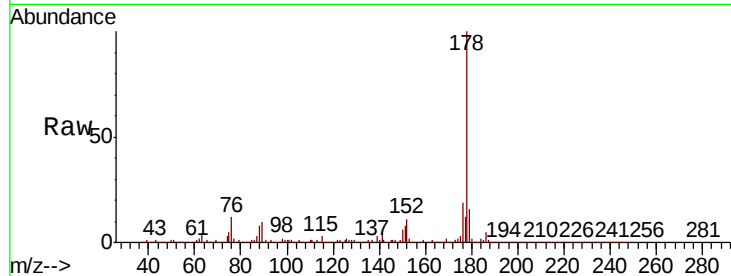
#71
Phenanthrene
Concen: 39.918 ng
RT: 17.11 min Scan# 2401
Delta R.T. -0.01 min
Lab File: BM019174.D
Acq: 14 Mar 2019 18:05

Instrument :
BNA_M
ClientSampleId :
MW-4A

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.7	12.2	18.2

Manual Integrations
APPROVED

Sohil
3/15/2019 5:51:11 PM

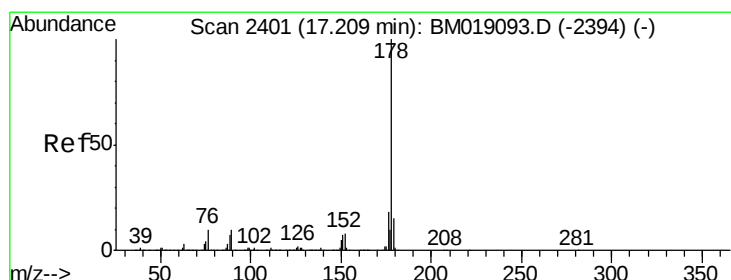
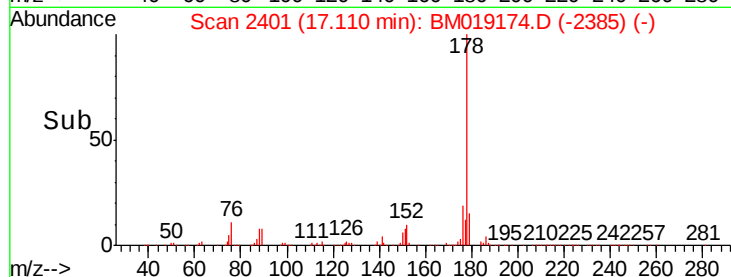
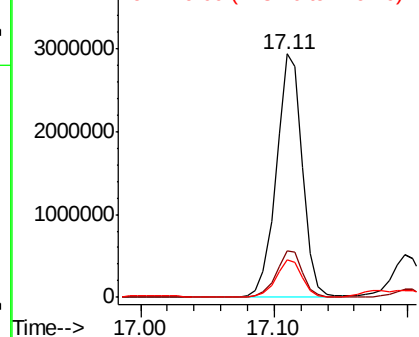


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
Anthracene
Concen: 7.457 ng
RT: 17.20 min Scan# 2416
Delta R.T. -0.01 min
Lab File: BM019174.D
Acq: 14 Mar 2019 18:05

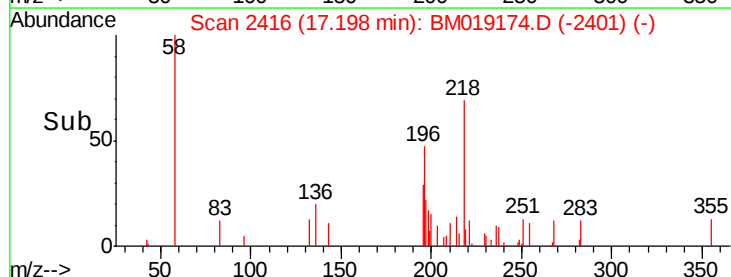
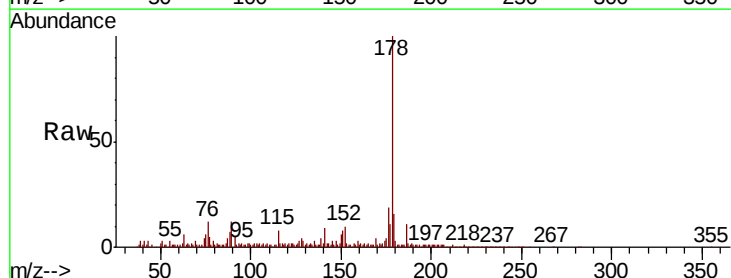
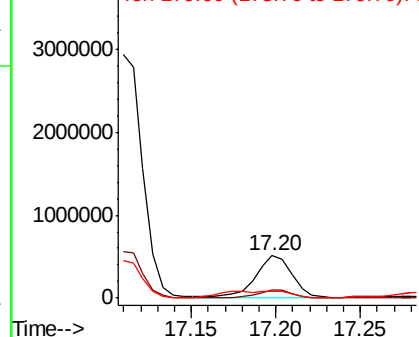
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	14.6	22.0
179	16.3	11.9	17.9

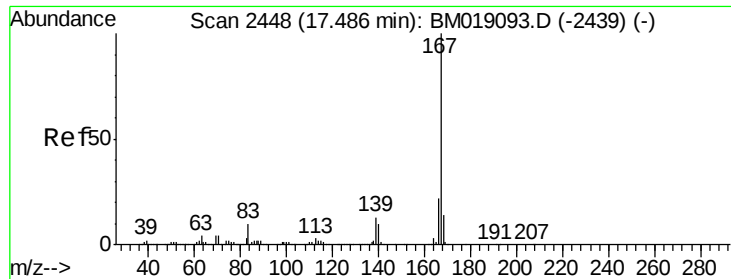
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





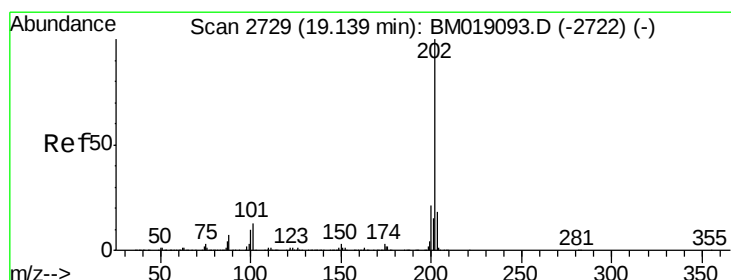
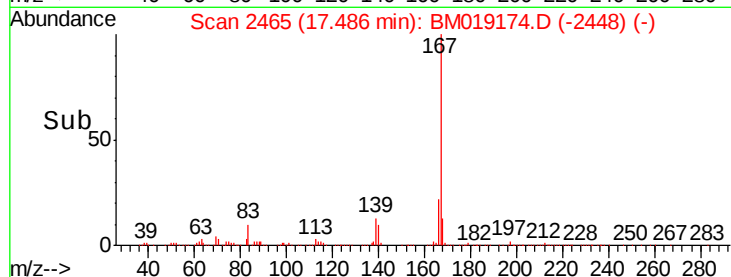
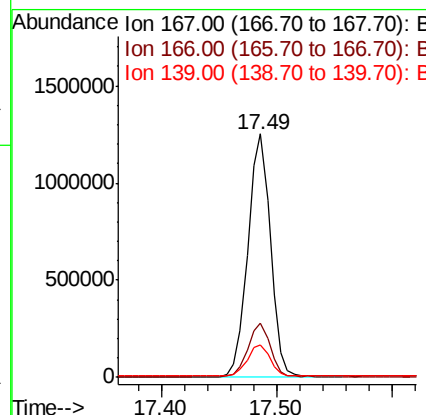
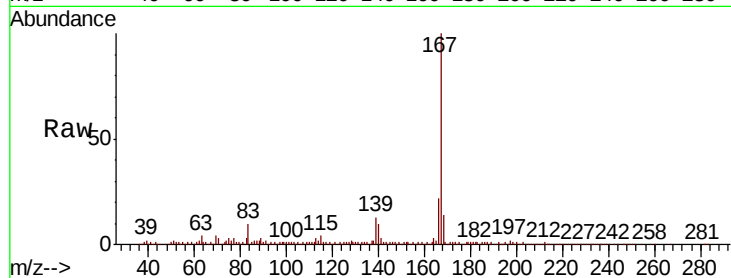
#73
 Carbazole
 Concen: 18.504 ng
 RT: 17.49 min Scan# 2465
 Delta R.T. 0.00 min
 Lab File: BM019174.D
 Acq: 14 Mar 2019 18:05

Instrument :
 BNA_M
 ClientSampled :
 MW-4A

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.8	26.8
139	13.1	10.5	15.7

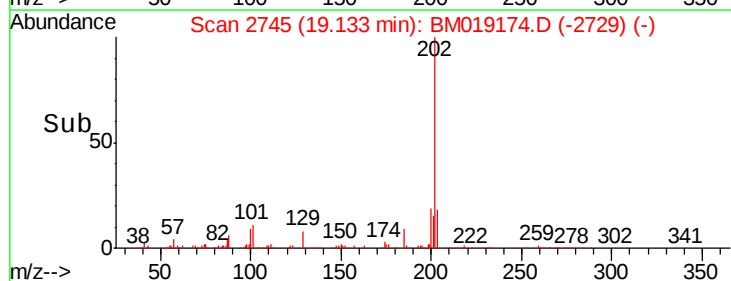
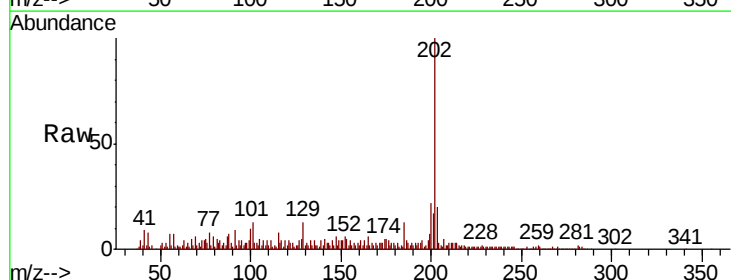
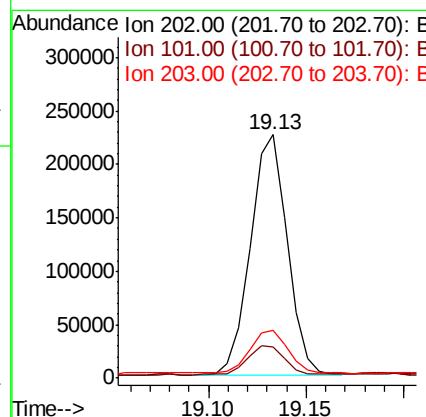
Manual Integrations
 APPROVED

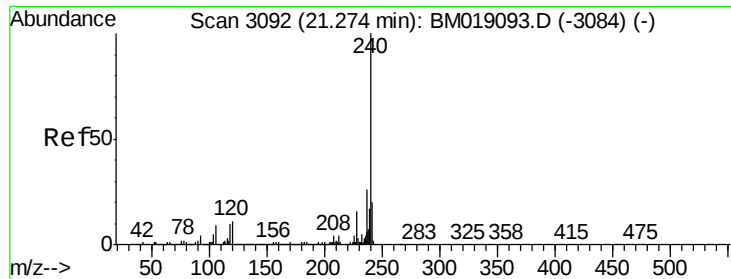
Sohil
 3/15/2019 5:51:11 PM



#75
 Fluoranthene
 Concen: 2.592 ng
 RT: 19.13 min Scan# 2745
 Delta R.T. -0.01 min
 Lab File: BM019174.D
 Acq: 14 Mar 2019 18:05

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	33.0
203	19.8	0.0	37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.27 min Scan# 3108

Delta R.T. -0.01 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Instrument :

BNA_M

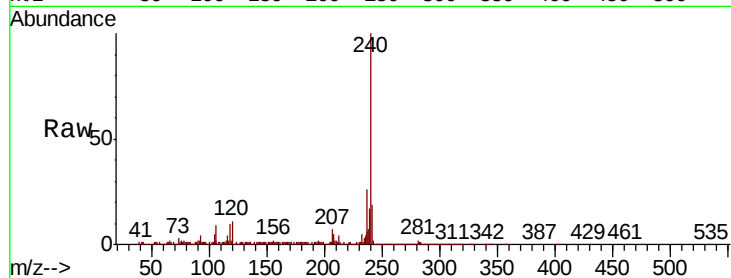
ClientSampled :

MW-4A

Tot Ion:	240	Resp:	1443335
Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.9	13.3
236	25.8	21.0	31.4

Manual Integrations
APPROVED

Sohil
3/15/2019 5:51:11 PM

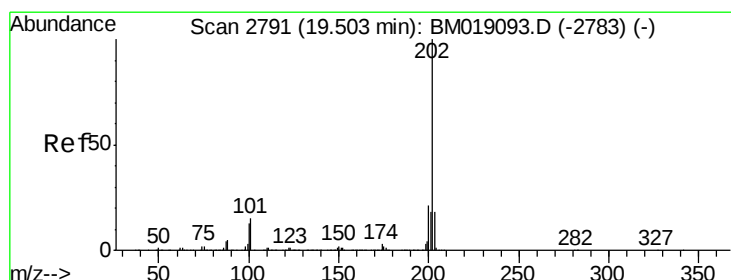
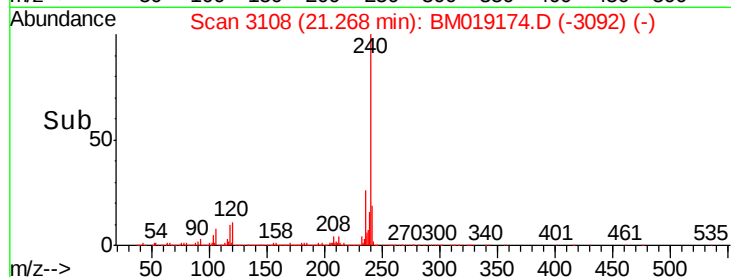
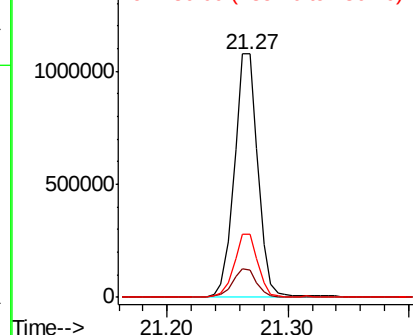


Abundance

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: 2.072 ng

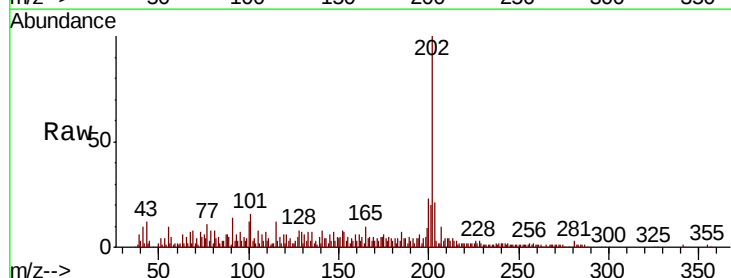
RT: 19.50 min Scan# 2807

Delta R.T. -0.01 min

Lab File: BM019174.D

Acq: 14 Mar 2019 18:05

Tgt Ion:	202	Resp:	189193
Ion	Ratio	Lower	Upper
202	100		
200	23.3	16.9	25.3
203	20.9	14.0	21.0

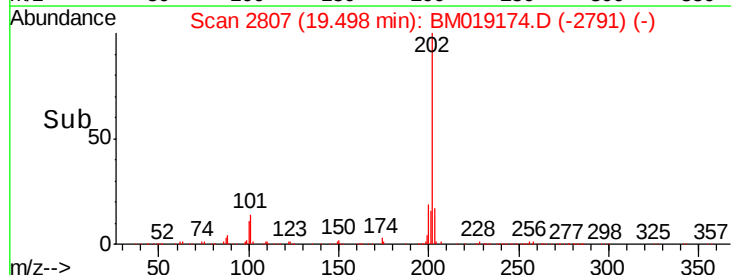
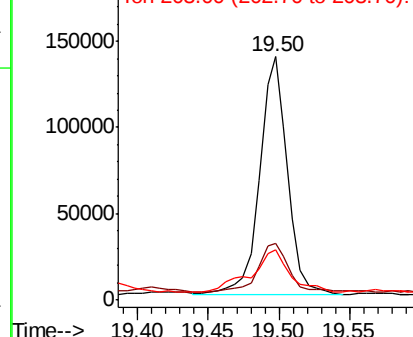


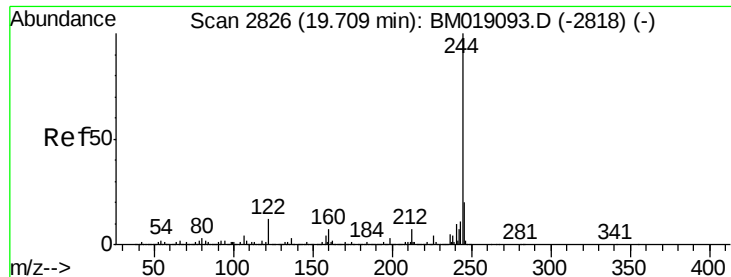
Abundance

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





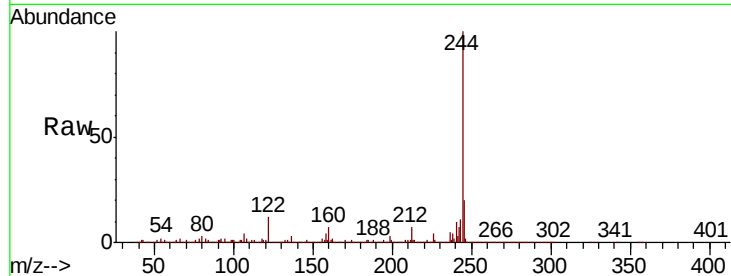
#79
 Terphenyl-d14
 Concen: 94.640 ng
 RT: 19.70 min Scan# 2842
 Delta R.T. -0.01 min
 Lab File: BM019174.D
 Acq: 14 Mar 2019 18:05

Instrument :
 BNA_M
 ClientSampled :
 MW-4A

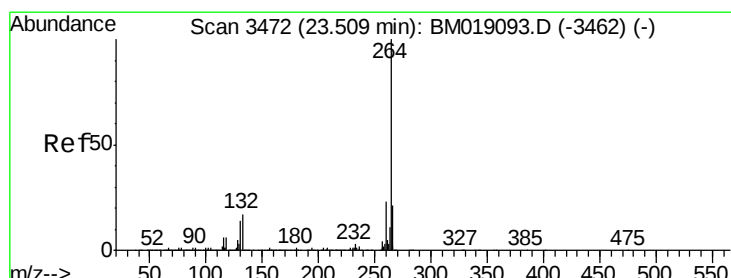
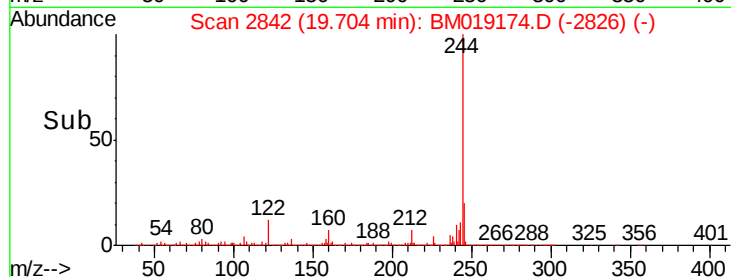
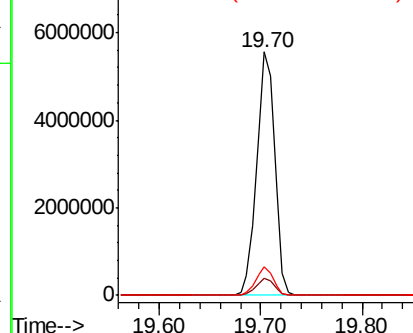
Tot Ion:244 Resp: 6880735
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.2
 122 11.6 9.4 14.2

Manual Integrations
 APPROVED

Sohil
 3/15/2019 5:51:11 PM

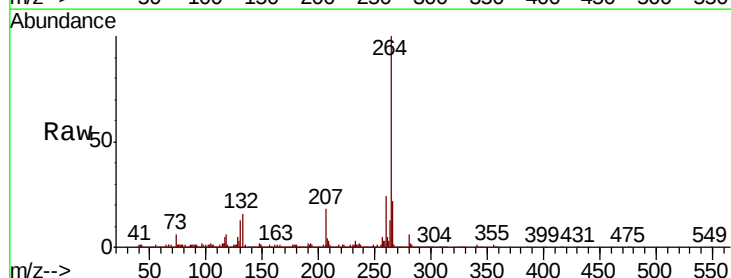


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.50 min Scan# 3488
 Delta R.T. -0.01 min
 Lab File: BM019174.D
 Acq: 14 Mar 2019 18:05

Tgt Ion:264 Resp: 1232855
 Ion Ratio Lower Upper
 264 100
 260 24.1 18.6 28.0
 265 22.1 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

