

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM030519\
 Data File : BM019057.D
 Acq On : 06 Mar 2019 04:52
 Operator : JU/SJ
 Sample : K1704-03
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PST-027-B113-022719

Manual Integrations
 APPROVED

Sohil
 3/6/2019 5:20:43 PM

Quant Time: Mar 06 06:47:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 05 03:36:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	297168	20.00	ng	0.00
21) Naphthalene-d8	10.46	136	1176085	20.00	ng	-0.01
39) Acenaphthene-d10	14.33	164	653860	20.00	ng	0.00
64) Phenanthrene-d10	17.08	188	1457247	20.00	ng	0.00
76) Chrysene-d12	21.28	240	1396104	20.00	ng	0.00
87) Perylene-d12	23.52	264	1408581	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.28	112	2351707	129.66	ng	0.00
7) Phenol-d6	6.86	99	3285432	128.59	ng	0.00
23) Nitrobenzene-d5	8.85	82	2059916	80.99	ng	0.00
42) 2,4,6-Tribromophenol	15.83	330	1266481	134.37	ng	0.00
45) 2-Fluorobiphenyl	12.94	172	3791695	76.98	ng	-0.01
79) Terphenyl-d14	19.72	244	5462114	80.71	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.88	94	237635	8.839	ng	99
37) 2-Methylnaphthalene	12.13	142	83680	2.072	ng	97
38) 1-Methylnaphthalene	12.35	142	87105	2.206	ng	97
50) Dimethylphthalate	13.79	163	245789	4.511	ng	98
52) Acenaphthene	14.39	154	280033	7.055	ng	100
55) Dibenzofuran	14.73	168	337793	5.178	ng	98
58) Fluorene	15.38	166	308307	6.177	ng	99
71) Phenanthrene	17.13	178	4155944	53.067	ng	100
72) Anthracene	17.22	178	1078412	14.148	ng	99
73) Carbazole	17.49	167	369356	4.638	ng	99
75) Fluoranthene	19.15	202	4074909	45.045	ng	99
78) Pyrene	19.52	202	3265426	40.272	ng	99
81) Benzo(a)anthracene	21.26	228	1800440	22.123	ng	100
83) Chrysene	21.32	228	1437291	18.426	ng	97
86) Indeno(1,2,3-cd)pyrene	25.79	276	596332	6.622	ng	97
88) Benzo(b)fluoranthene	22.85	252	1501273m	18.628	ng	
89) Benzo(k)fluoranthene	22.89	252	580638m	7.237	ng	
90) Benzo(a)pyrene	23.42	252	1107899	14.512	ng	96
91) Dibenzo(a,h)anthracene	25.80	278	190587	2.520	ng	# 78
92) Benzo(a,h,i)perylene	26.49	276	487099	6.917	ng	99

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

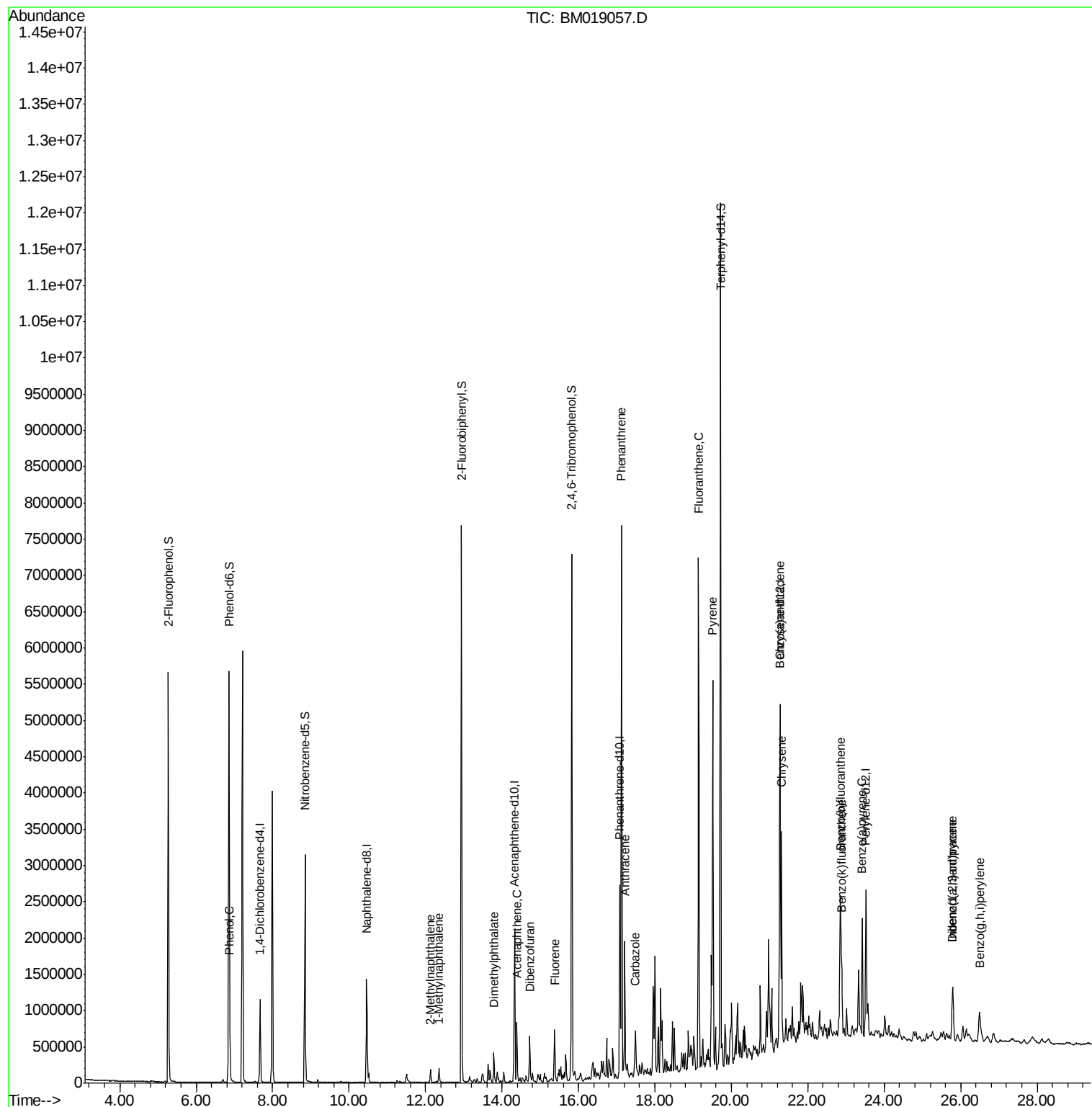
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM030519\
Data File : BM019057.D
Acq On : 06 Mar 2019 04:52
Operator : JU/SJ
Sample : K1704-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

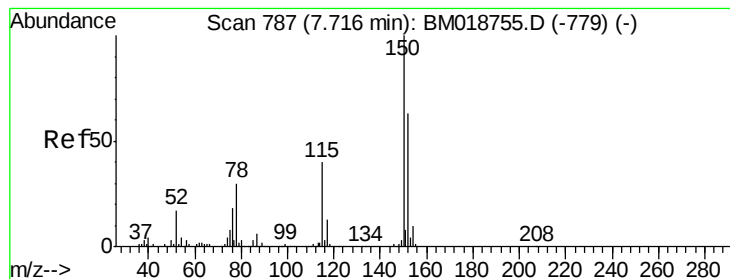
Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Manual Integrations
APPROVED

Sohil
3/6/2019 5:20:43 PM

Quant Time: Mar 06 06:47:30 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 05 03:36:13 2019
Response via : Initial Calibration





#1

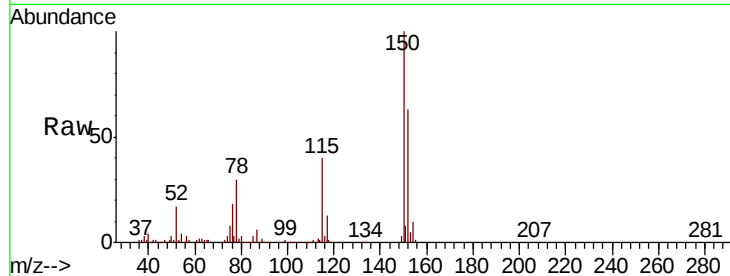
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.67 min Scan# 780
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	127.3	190.9
115	62.6	50.8	76.2

Manual Integrations
APPROVED

Sohil
3/6/2019 5:20:43 PM

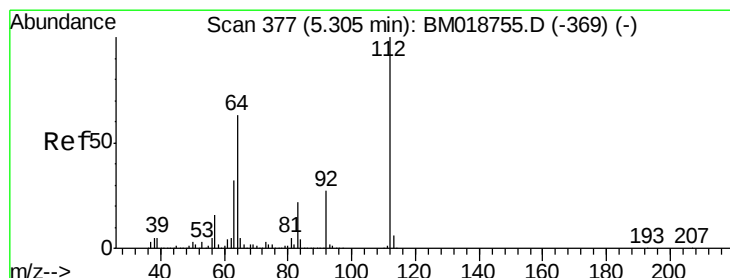
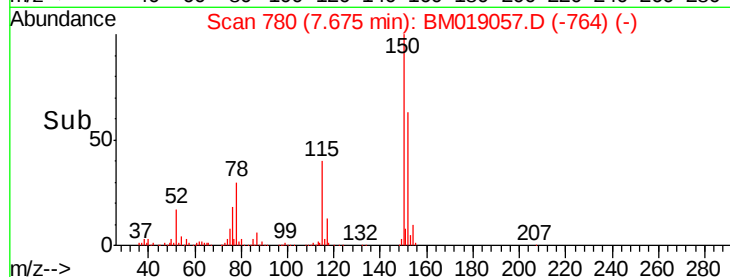
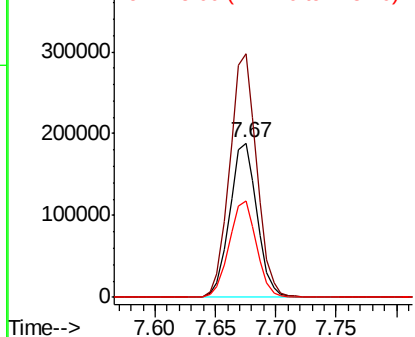


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

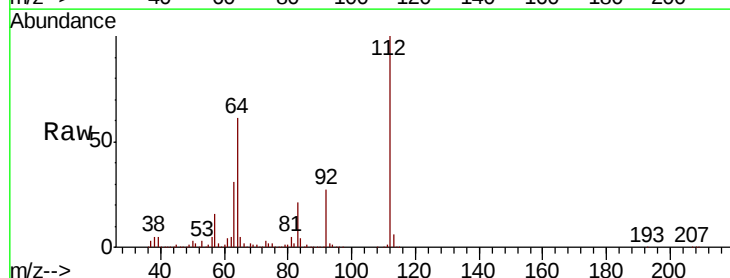
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 129.664 ng
RT: 5.28 min Scan# 372
Delta R.T. 0.00 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	50.6	75.8
63	31.1	25.7	38.5

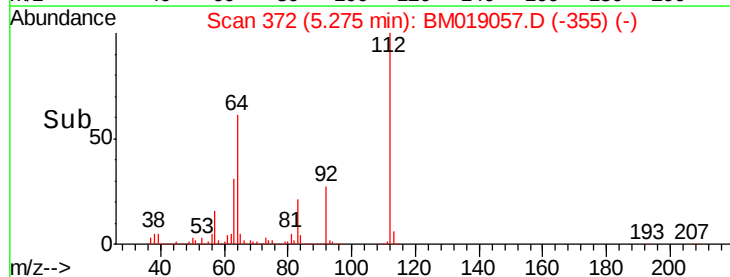
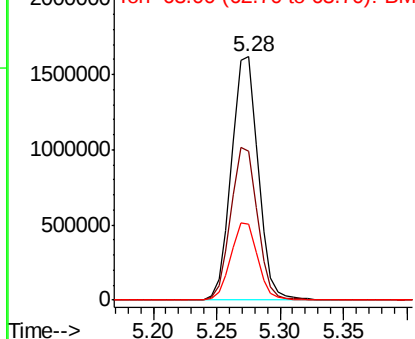


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 128.586 ng

RT: 6.86 min Scan# 641

Delta R.T. 0.00 min

Lab File: BM019057.D

Acq: 06 Mar 2019 04:52

Instrument :

BNA_M

ClientSampleId :

PST-027-B113-022719

Tot Ion: 99 Resp: 3285432

Ion Ratio Lower Upper

99 100

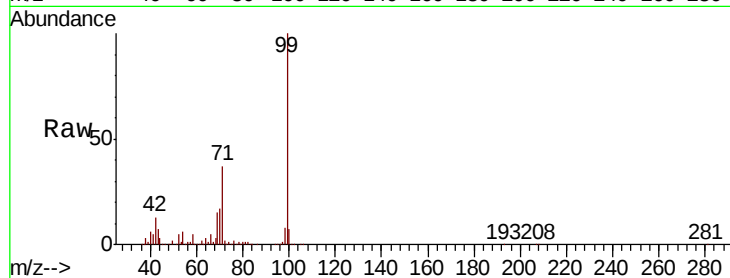
42 13.4 11.0 16.6

71 37.3 31.3 46.9

Manual Integrations
APPROVED

Sohil

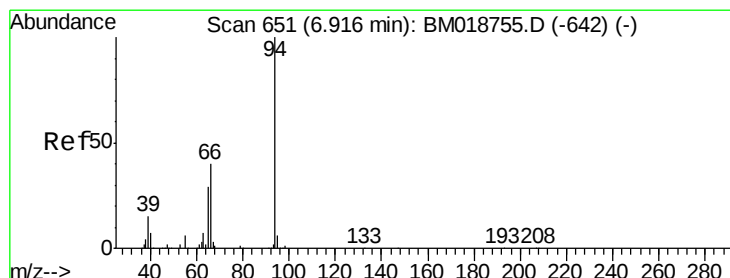
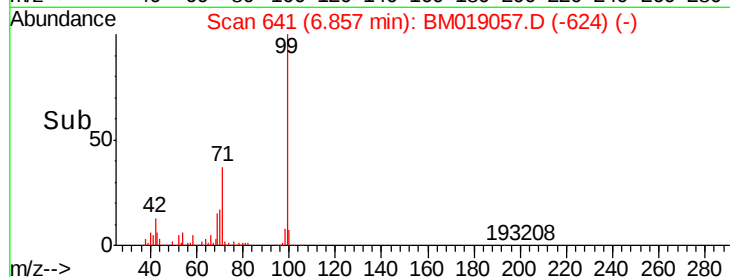
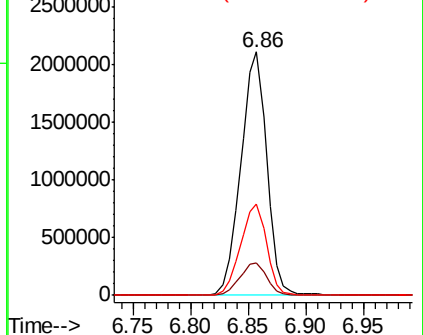
3/6/2019 5:20:43 PM



Abundance Ion 99.00 (98.70 to 99.70): BM018755.D (-637) (-)

Ion 42.00 (41.70 to 42.70): BM018755.D (-637) (-)

Ion 71.00 (70.70 to 71.70): BM018755.D (-637) (-)



#10

Phenol

Concen: 8.839 ng

RT: 6.88 min Scan# 645

Delta R.T. -0.01 min

Lab File: BM019057.D

Acq: 06 Mar 2019 04:52

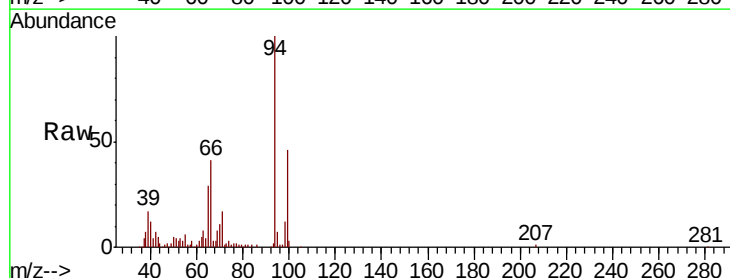
Tgt Ion: 94 Resp: 237635

Ion Ratio Lower Upper

94 100

65 29.3 9.6 49.6

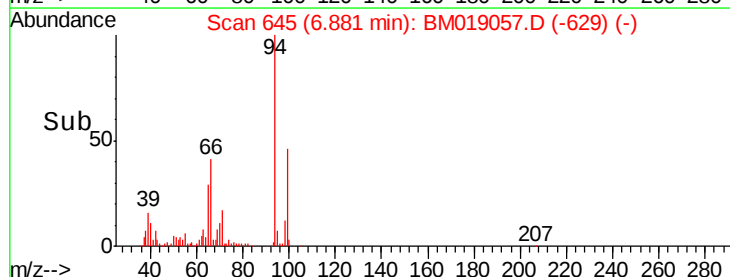
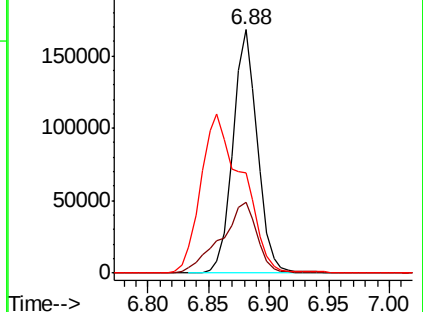
66 41.2 20.4 60.4

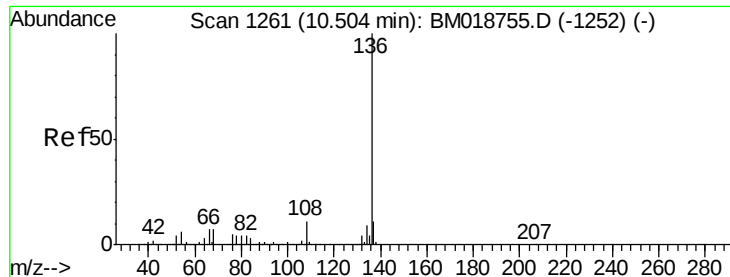


Abundance Ion 94.00 (93.70 to 94.70): BM018755.D (-642) (-)

Ion 65.00 (64.70 to 65.70): BM018755.D (-642) (-)

Ion 66.00 (65.70 to 66.70): BM018755.D (-642) (-)





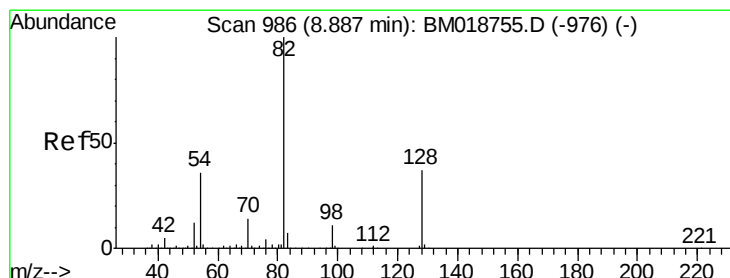
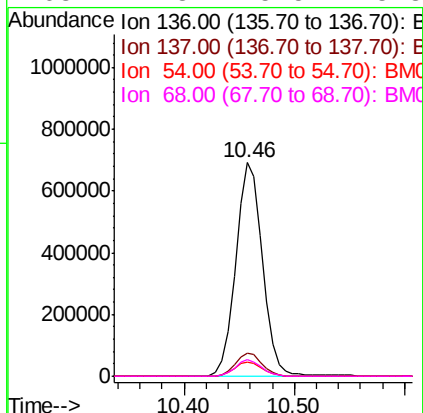
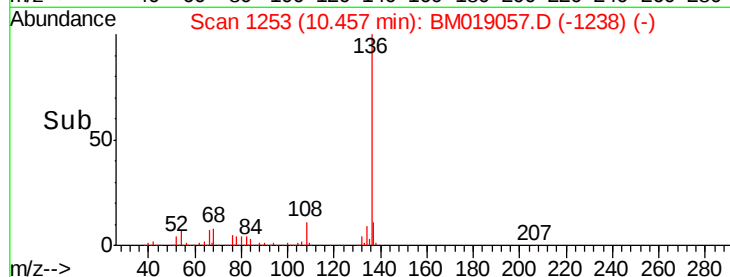
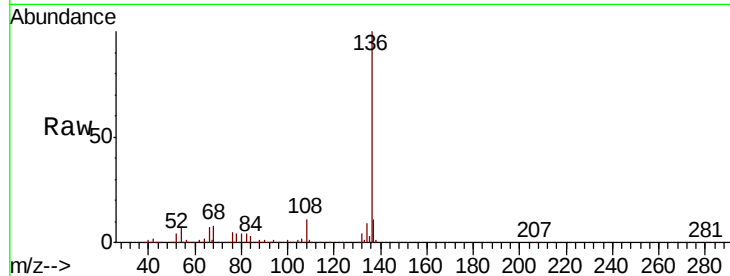
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.46 min Scan# 1253
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion:	136	Resp:	1176085
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.8	5.0	7.6
68	7.8	5.5	8.3

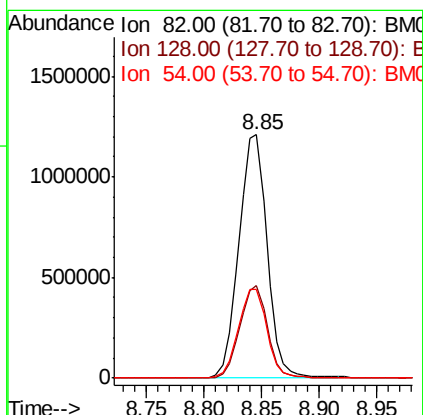
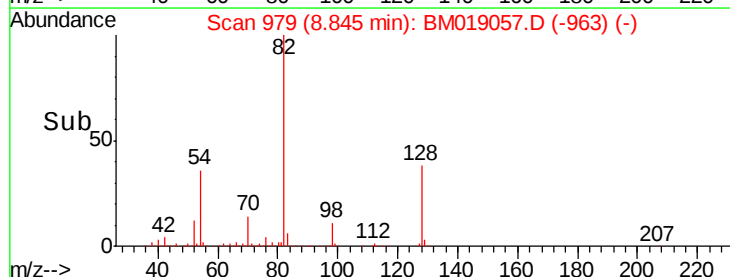
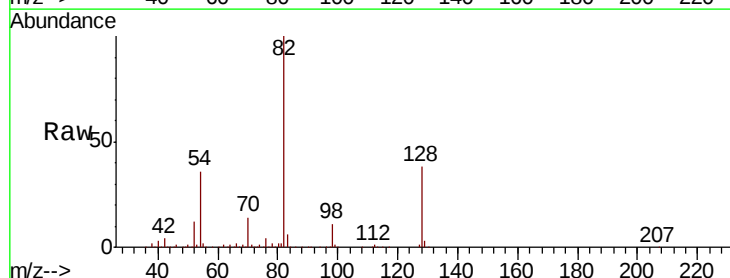
Manual Integrations
APPROVED

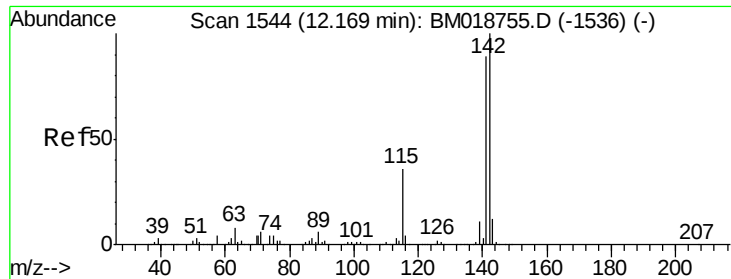
Sohil
3/6/2019 5:20:43 PM



#23
Nitrobenzene-d5
Concen: 80.987 ng
RT: 8.85 min Scan# 979
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion:	82	Resp:	2059916
Ion	Ratio	Lower	Upper
82	100		
128	38.2	29.9	44.9
54	36.5	29.1	43.7





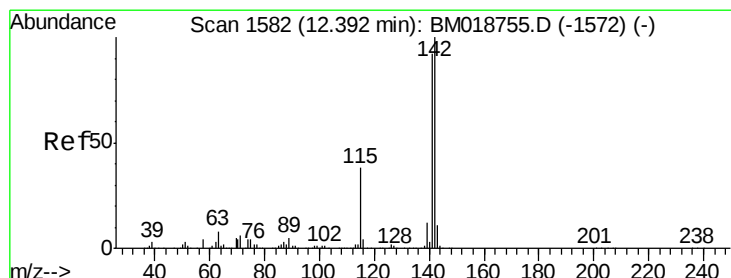
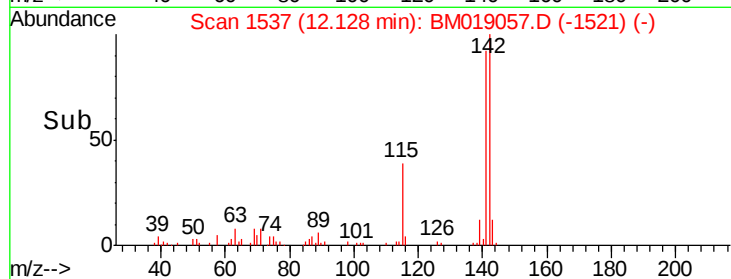
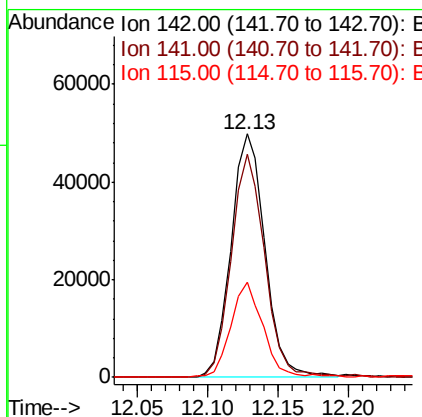
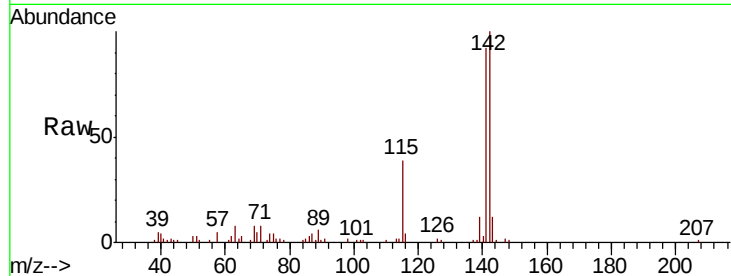
#37
2-Methylnaphthalene
Concen: 2.072 ng
RT: 12.13 min Scan# 1537
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.7	71.2	106.8
115	39.0	29.1	43.7

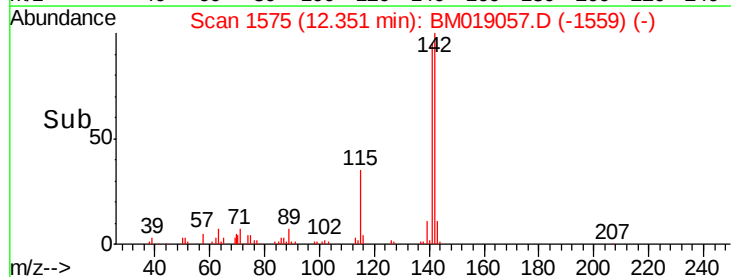
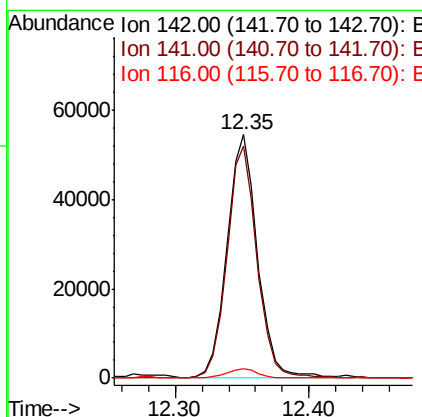
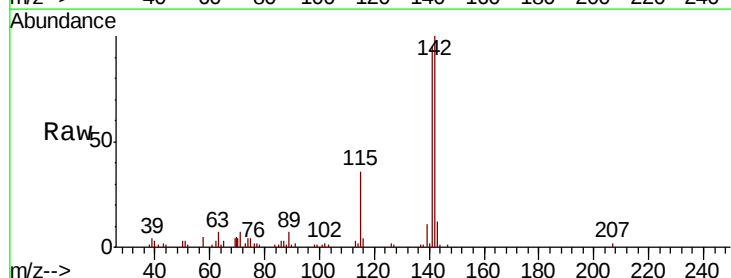
Manual Integrations
APPROVED

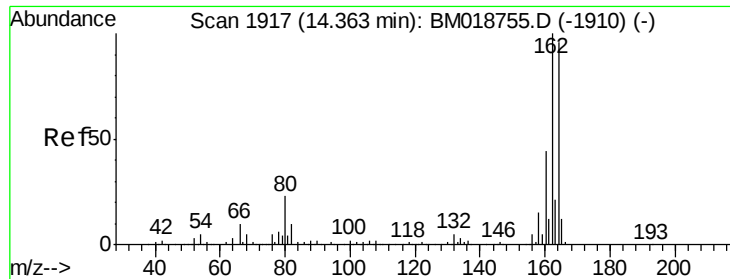
Sohil
3/6/2019 5:20:43 PM



#38
1-Methylnaphthalene
Concen: 2.206 ng
RT: 12.35 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.4	73.9	110.9
116	3.9	3.0	4.4





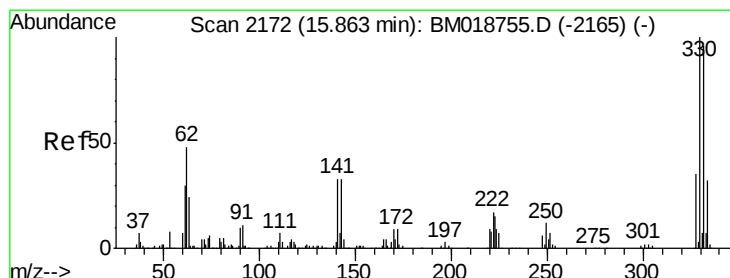
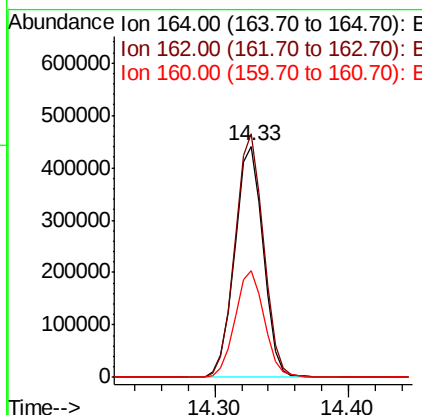
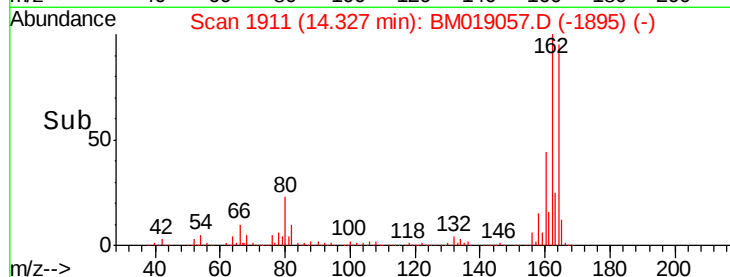
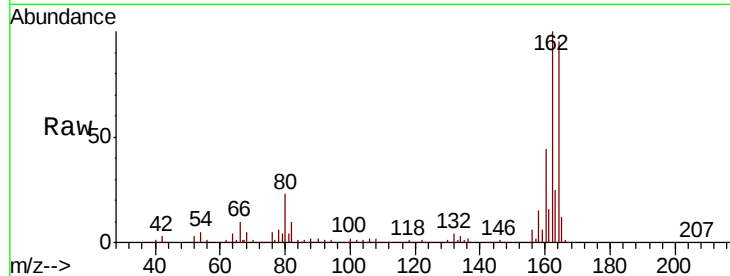
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.33 min Scan# 1911
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.2	83.4	125.0	
160	46.3	36.6	55.0	

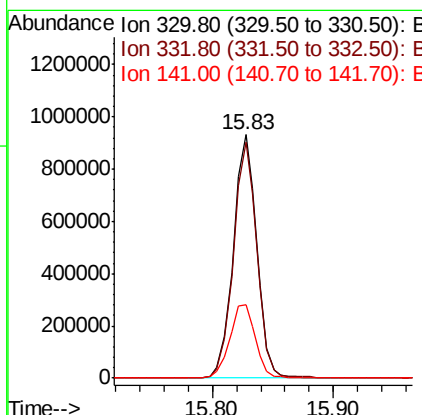
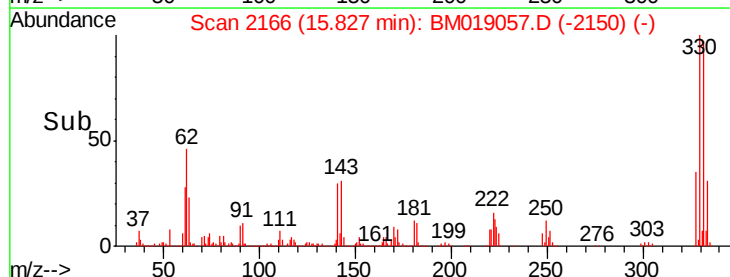
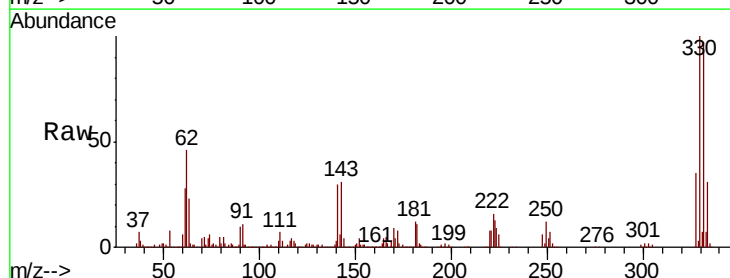
Manual Integrations
APPROVED

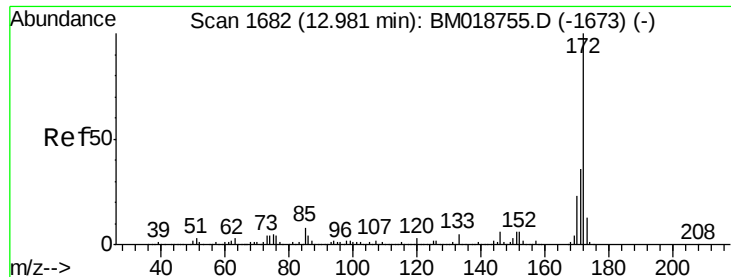
Sohil
3/6/2019 5:20:43 PM



#42
2,4,6-Tribromophenol
Concen: 134.372 ng
RT: 15.83 min Scan# 2166
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.5	76.9	115.3	
141	33.0	28.7	43.1	





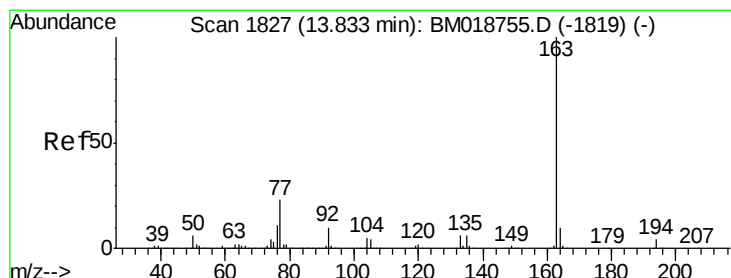
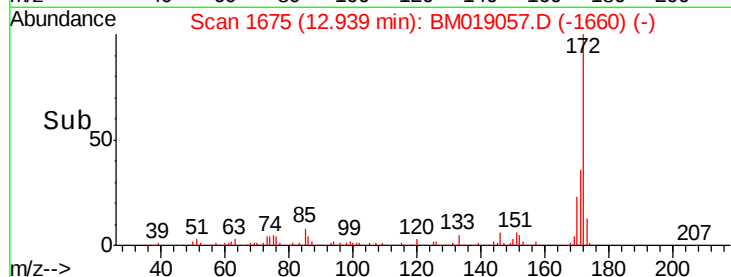
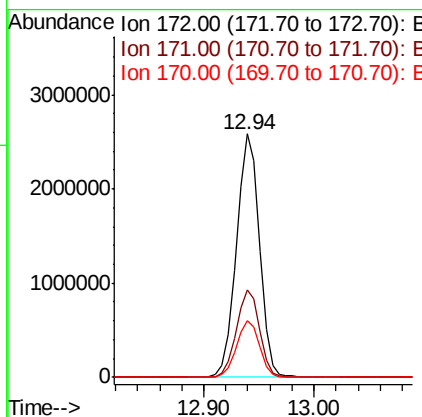
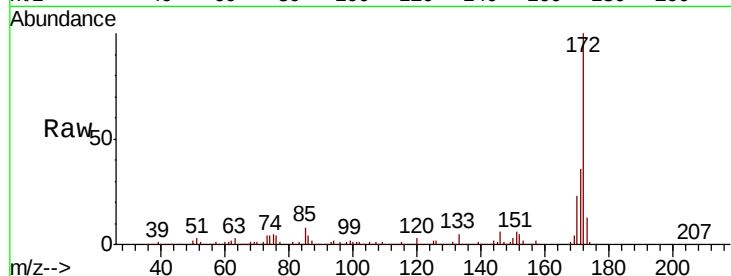
#45
2-Fluorobiphenyl
Concen: 76.980 ng
RT: 12.94 min Scan# 1675
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.6
170	23.5	18.6	28.0

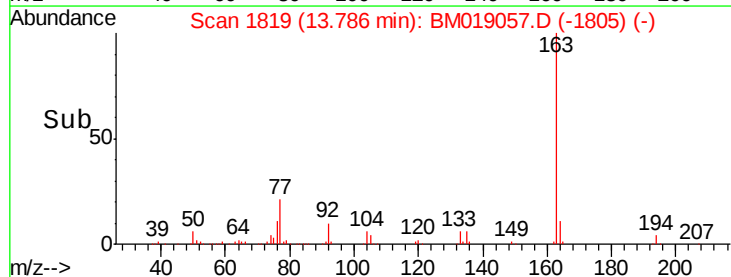
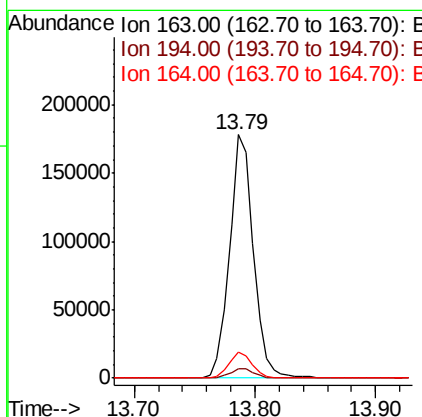
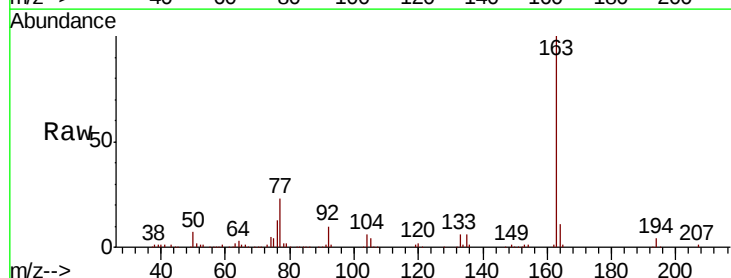
Manual Integrations
APPROVED

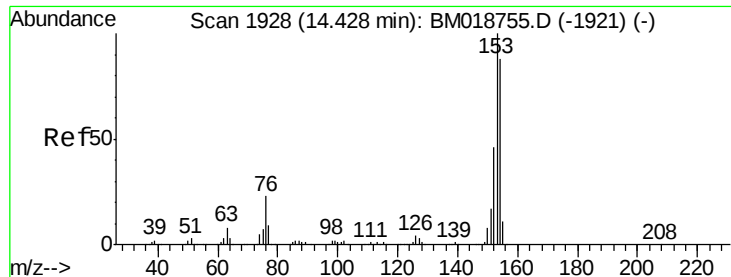
Sohil
3/6/2019 5:20:43 PM



#50
Dimethylphthalate
Concen: 4.511 ng
RT: 13.79 min Scan# 1819
Delta R.T. -0.02 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.2	4.8
164	10.9	7.8	11.8





#52

Acenaphthene

Concen: 7.055 ng

RT: 14.39 min Scan# 1922

Delta R.T. -0.01 min

Lab File: BM019057.D

Acq: 06 Mar 2019 04:52

Instrument :

BNA_M

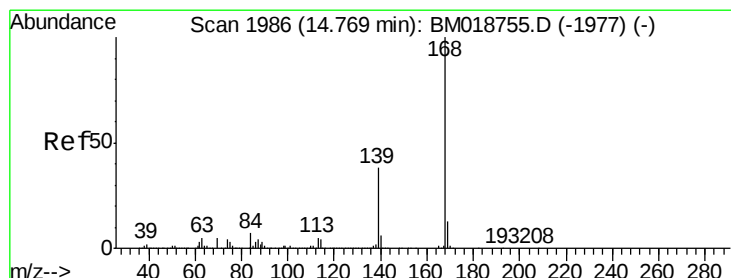
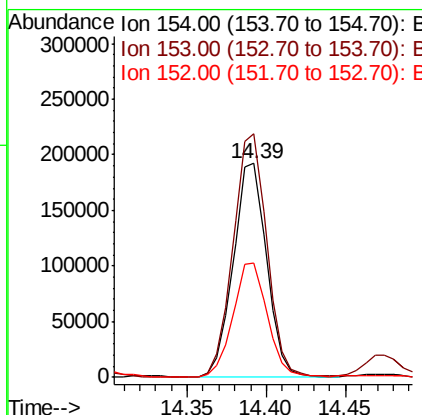
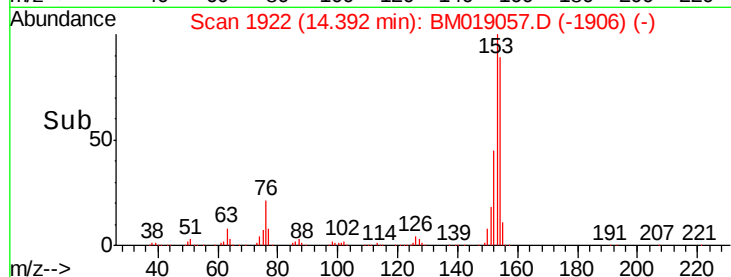
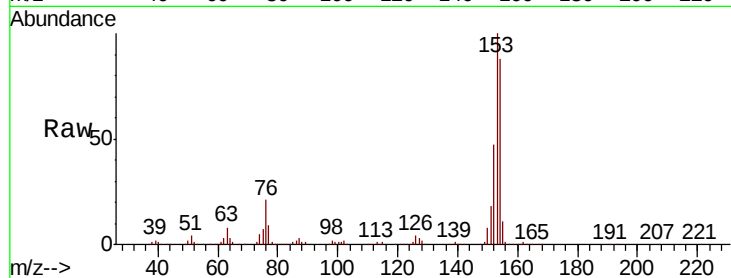
ClientSampleId :

PST-027-B113-022719

Tot Ion:	154	Resp:	280033
Ion Ratio	Lower	Upper	
154	100		
153	114.0	91.3	136.9
152	53.7	42.2	63.4

Manual Integrations
APPROVED

Sohil
3/6/2019 5:20:43 PM



#55

Dibenzofuran

Concen: 5.178 ng

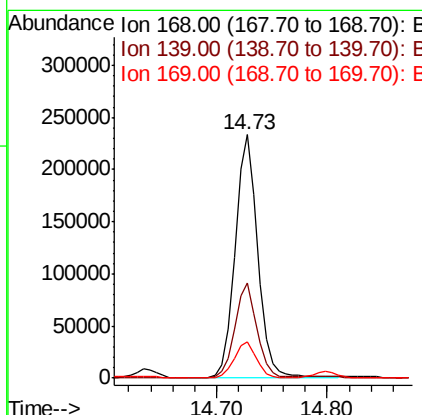
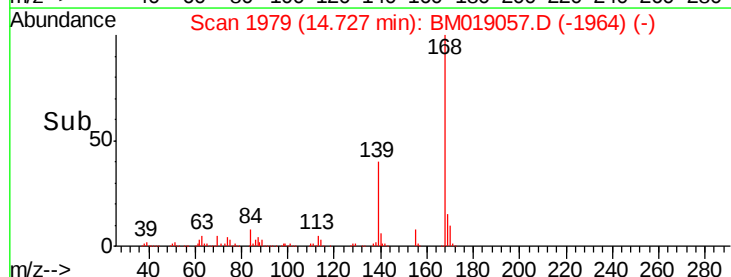
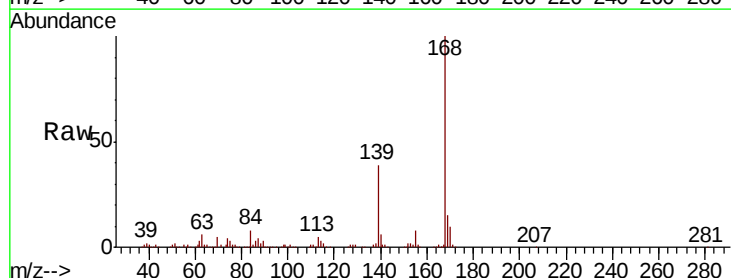
RT: 14.73 min Scan# 1979

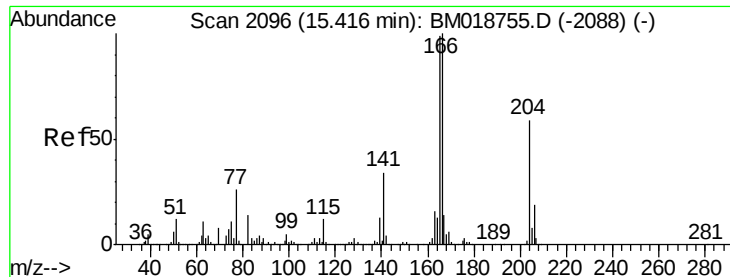
Delta R.T. -0.01 min

Lab File: BM019057.D

Acq: 06 Mar 2019 04:52

Tgt Ion:	168	Resp:	337793
Ion Ratio	Lower	Upper	
168	100		
139	39.0	30.7	46.1
169	15.0	10.3	15.5





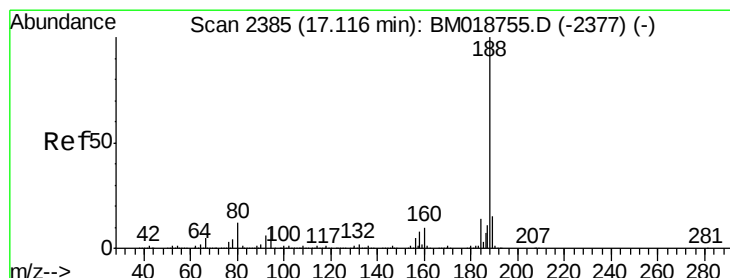
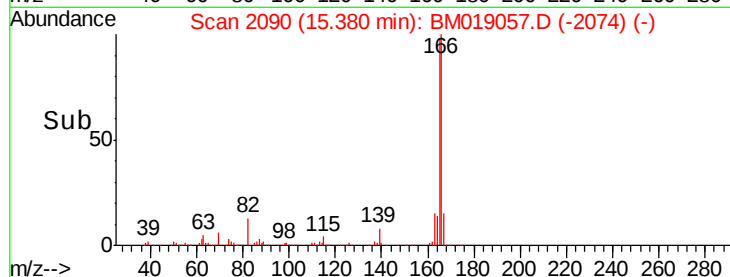
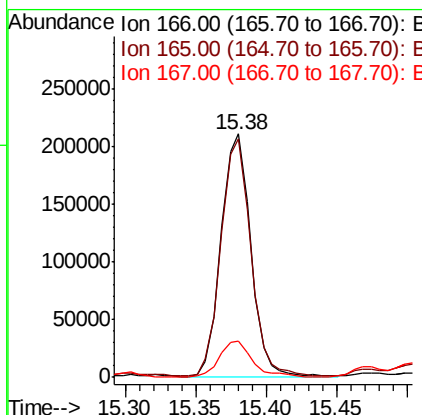
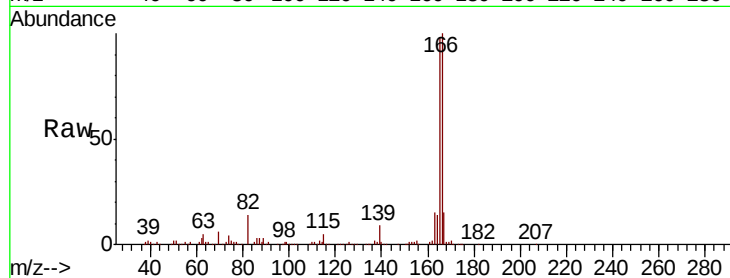
#58
 Fluorene
 Concen: 6.177 ng
 RT: 15.38 min Scan# 2090
 Delta R.T. -0.01 min
 Lab File: BM019057.D
 Acq: 06 Mar 2019 04:52

Instrument :
 BNA_M
 ClientSampleId :
 PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.1	118.7
167	15.1	11.0	16.4

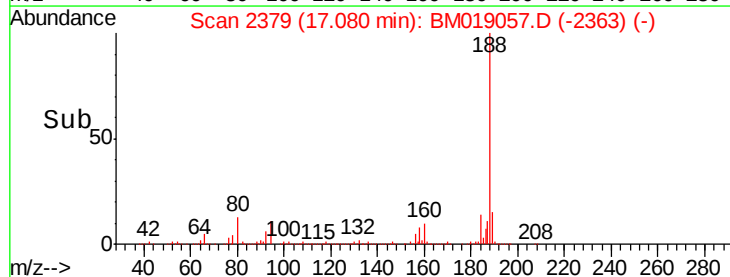
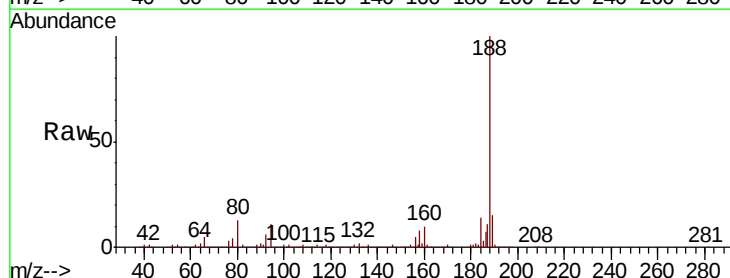
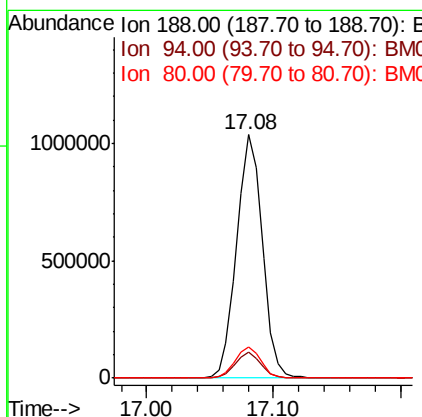
Manual Integrations
 APPROVED

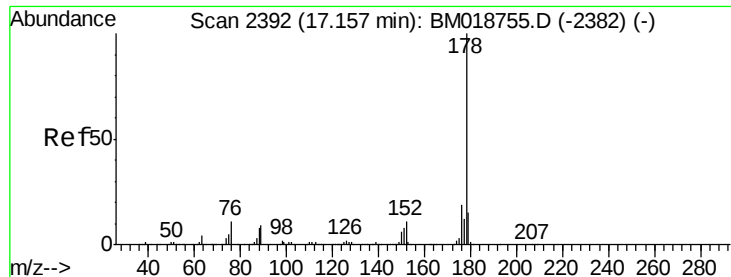
Sohil
 3/6/2019 5:20:43 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.08 min Scan# 2379
 Delta R.T. -0.01 min
 Lab File: BM019057.D
 Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.2	12.2
80	12.7	9.7	14.5





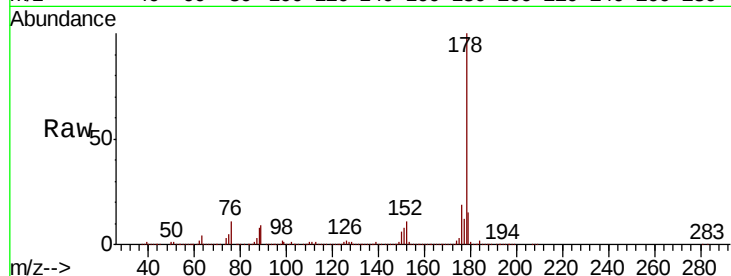
#71
Phenanthrene
Concen: 53.067 ng
RT: 17.13 min Scan# 2387
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

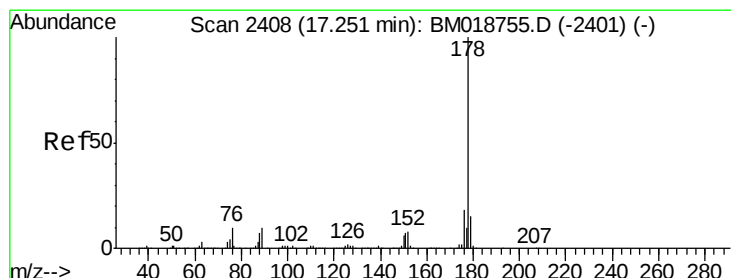
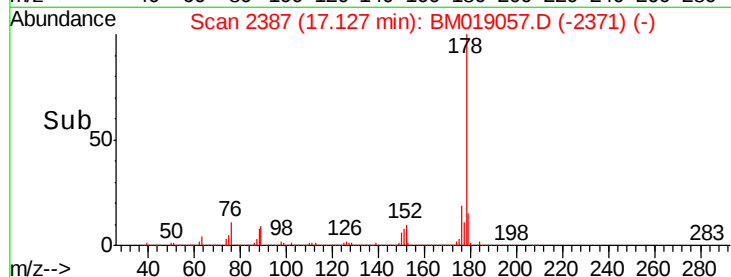
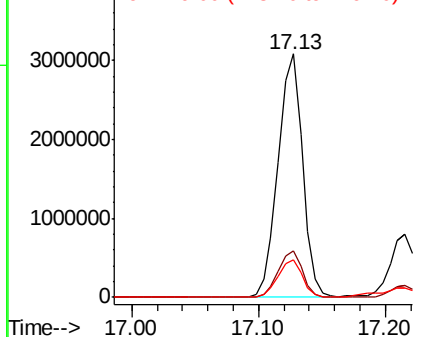
Tot Ion:178 Resp: 4155944
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.5 12.3 18.5

Manual Integrations
APPROVED

Sohil
3/6/2019 5:20:43 PM

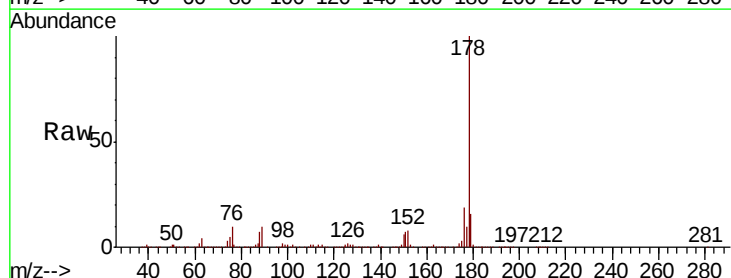


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

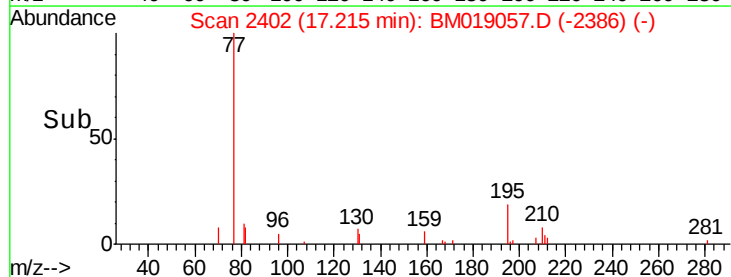
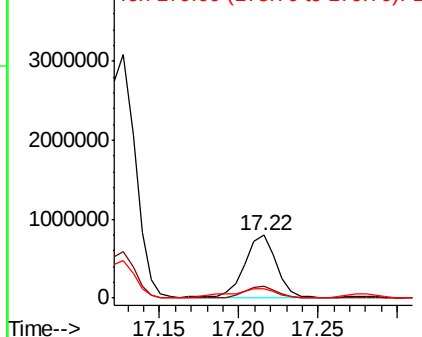


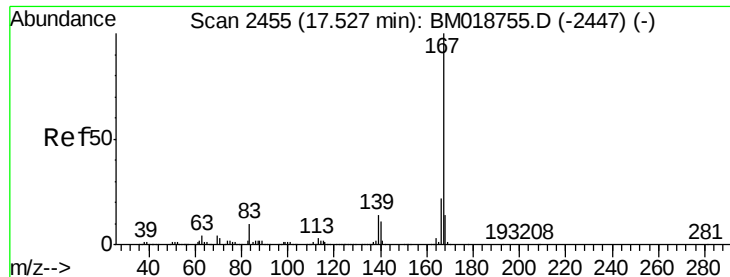
#72
Anthracene
Concen: 14.148 ng
RT: 17.22 min Scan# 2402
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion:178 Resp: 1078412
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.7 12.1 18.1



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





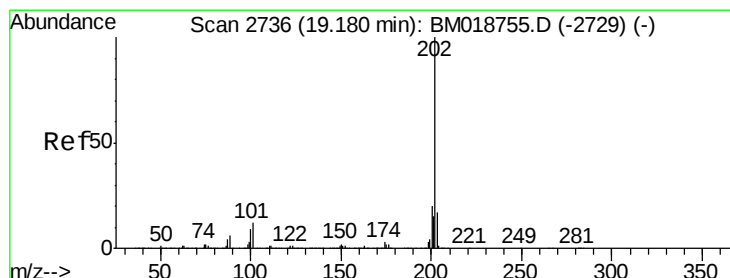
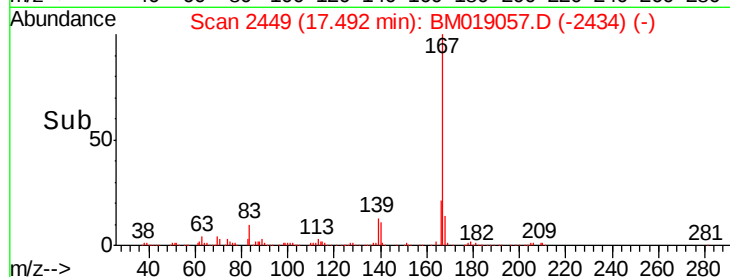
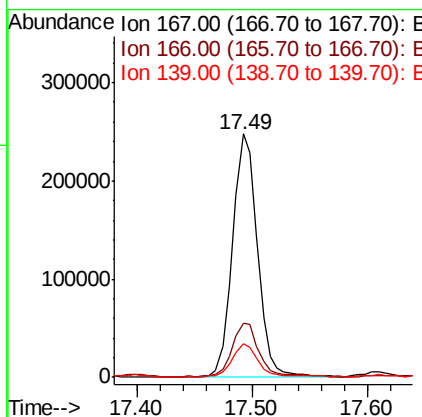
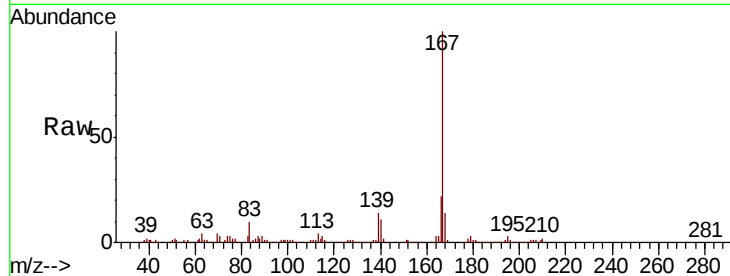
#73
 Carbazole
 Concen: 4.638 ng
 RT: 17.49 min Scan# 2449
 Delta R.T. -0.01 min
 Lab File: BM019057.D
 Acq: 06 Mar 2019 04:52

Instrument :
 BNA_M
 ClientSampleId :
 PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.7	26.5
139	13.7	10.9	16.3

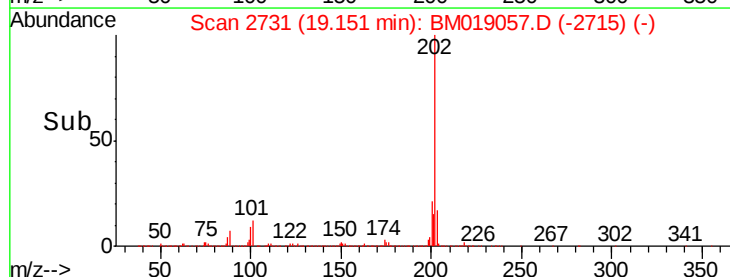
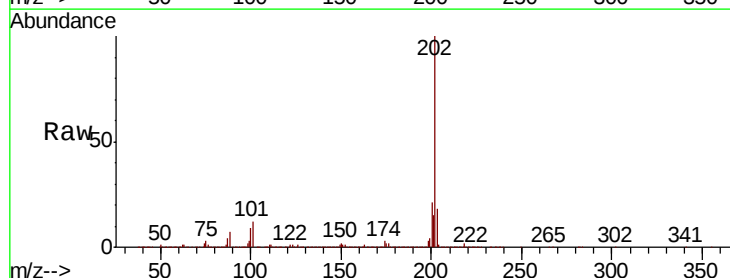
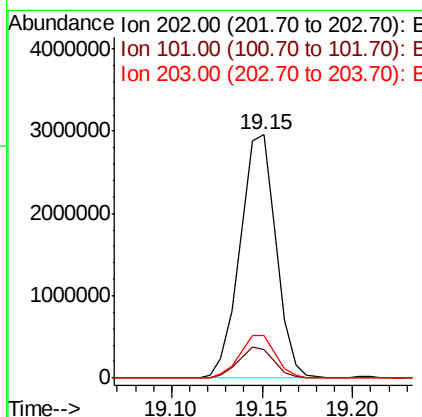
Manual Integrations
 APPROVED

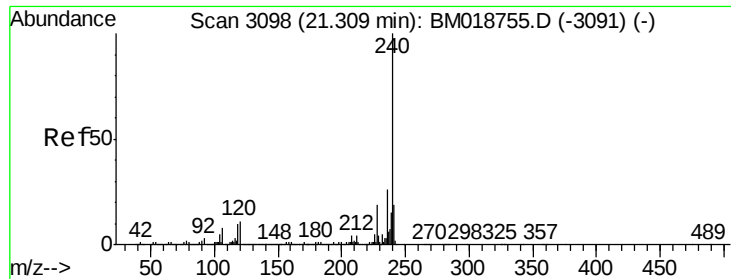
Sohil
 3/6/2019 5:20:43 PM



#75
 Fluoranthene
 Concen: 45.045 ng
 RT: 19.15 min Scan# 2731
 Delta R.T. -0.01 min
 Lab File: BM019057.D
 Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	31.5
203	17.6	0.0	37.3





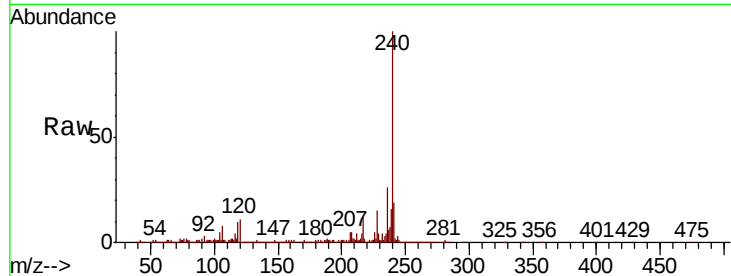
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.28 min Scan# 3093
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	26.2	20.9	31.3

Manual Integrations
APPROVED

Sohil
3/6/2019 5:20:43 PM

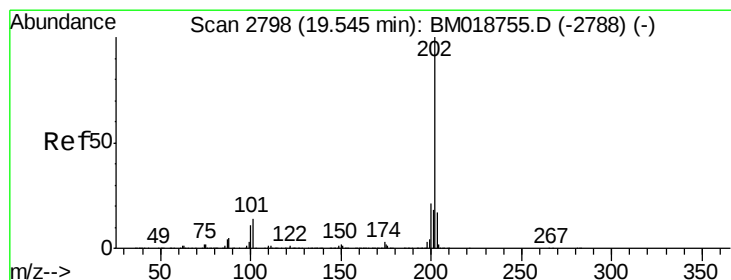
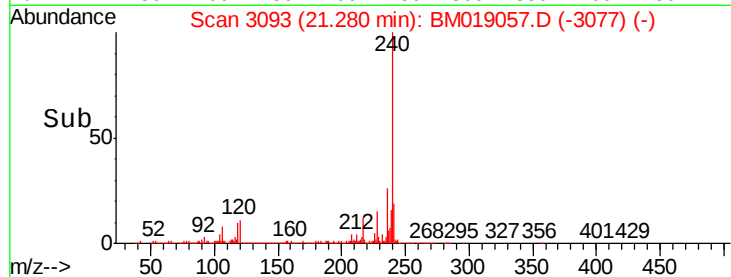
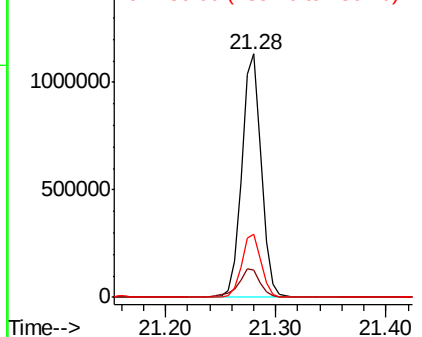


Abundance

Ion 240.00 (239.70 to 240.70): E

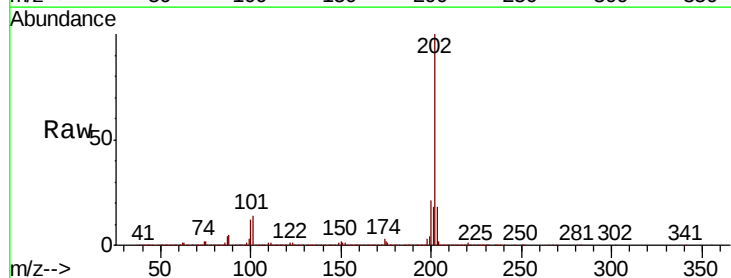
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 40.272 ng
RT: 19.52 min Scan# 2793
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.9	25.3
203	17.6	13.8	20.8

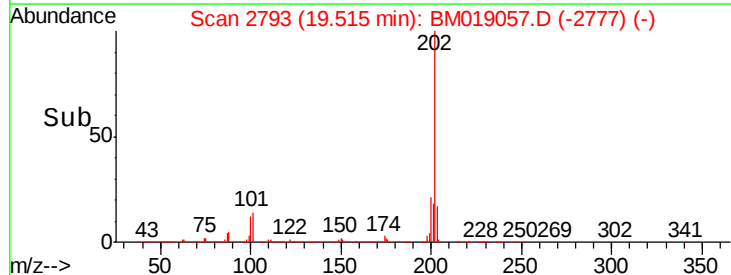
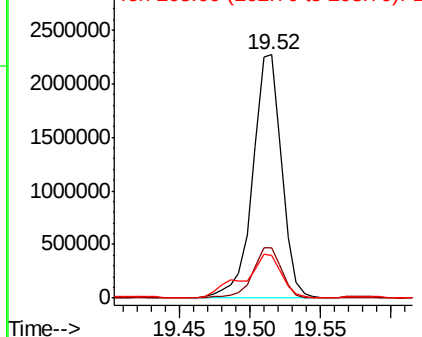


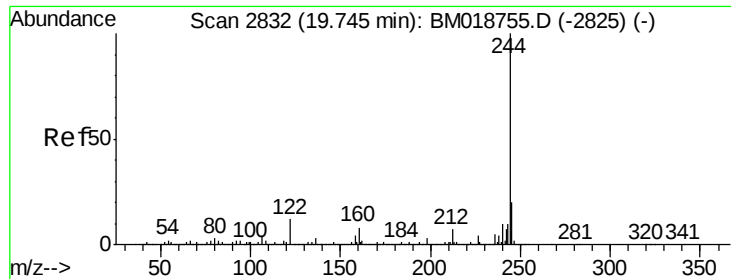
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79
 Terphenyl-d14
 Concen: 80.709 ng
 RT: 19.72 min Scan# 2828
 Delta R.T. -0.01 min
 Lab File: BM019057.D
 Acq: 06 Mar 2019 04:52

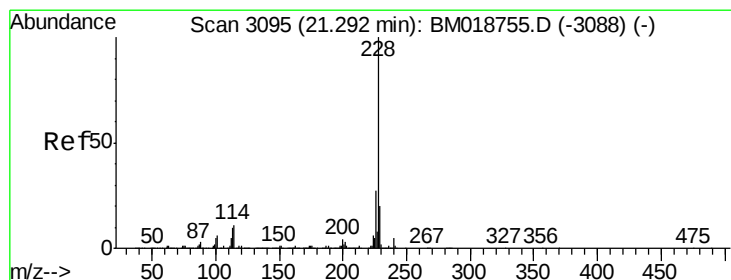
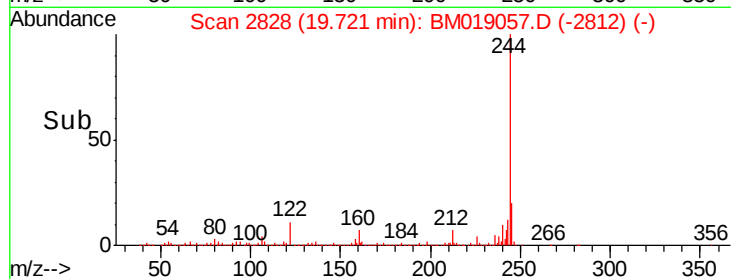
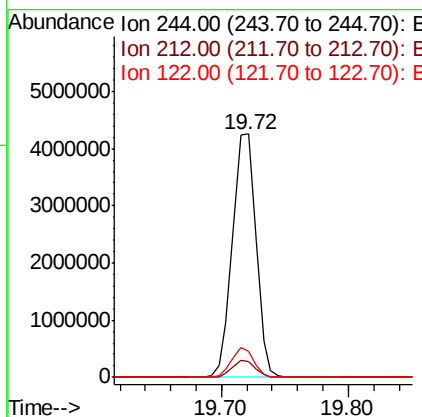
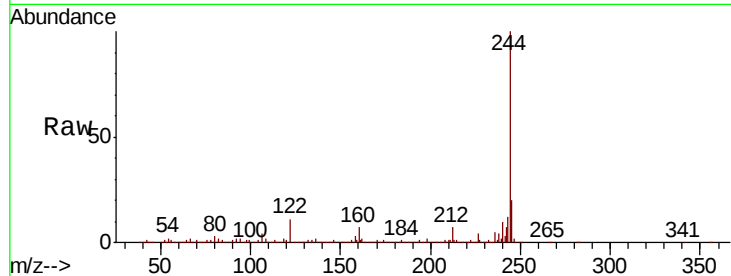
Instrument :
 BNA_M
 ClientSampleId :
 PST-027-B113-022719

Tot Ion:244 Resp: 5462114

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.7	9.3	13.9

Manual Integrations
 APPROVED

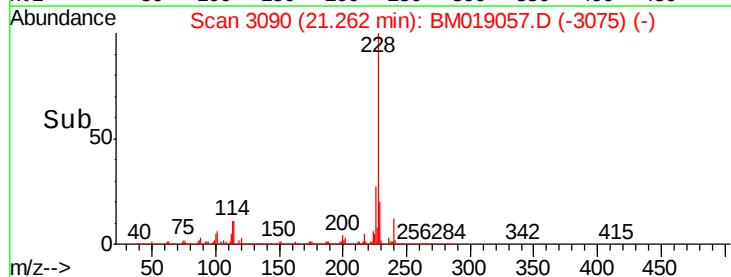
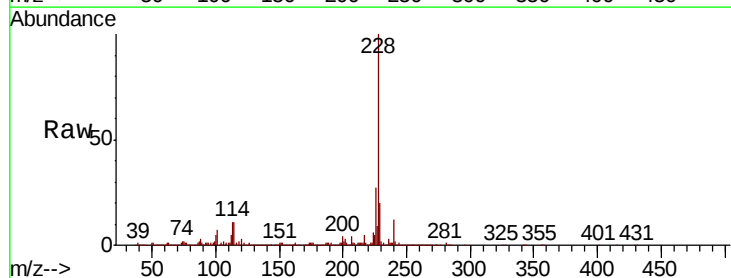
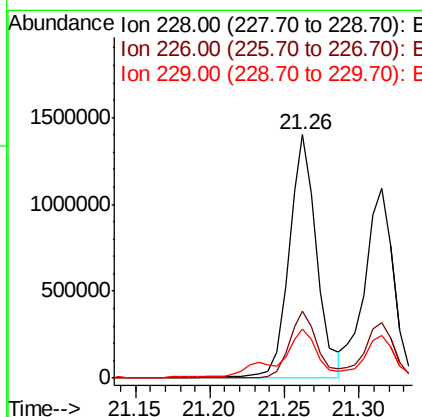
Sohil
 3/6/2019 5:20:43 PM

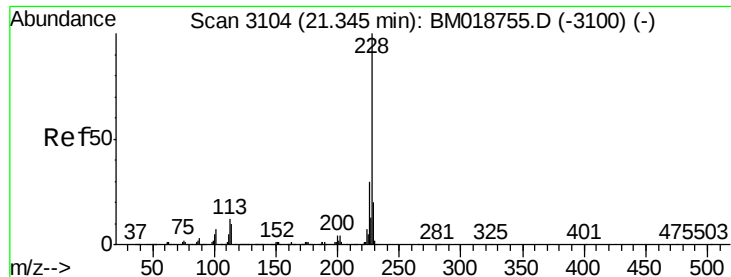


#81
 Benzo(a)anthracene
 Concen: 22.123 ng
 RT: 21.26 min Scan# 3090
 Delta R.T. -0.01 min
 Lab File: BM019057.D
 Acq: 06 Mar 2019 04:52

Tgt Ion:228 Resp: 1800440

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.9	32.9
229	20.4	15.9	23.9





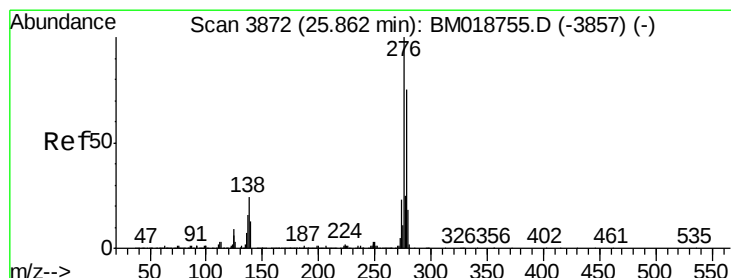
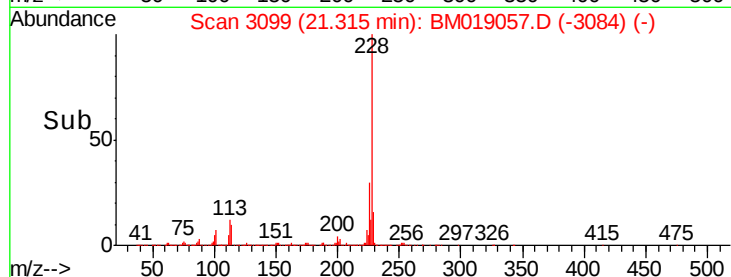
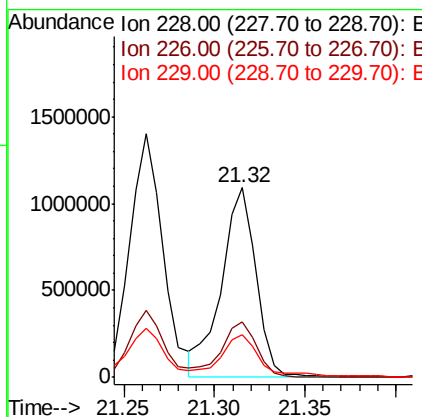
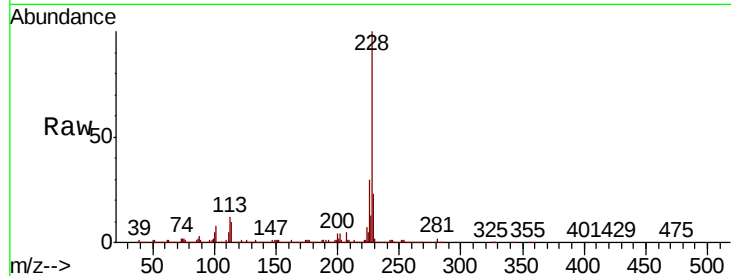
#83
Chrysene
Concen: 18.426 ng
RT: 21.32 min Scan# 3099
Delta R.T. -0.01 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.1	36.1
229	22.7	16.0	24.0

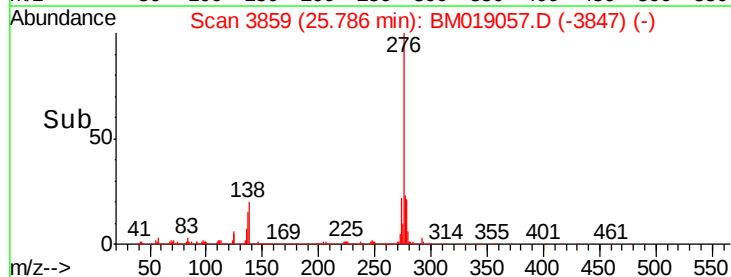
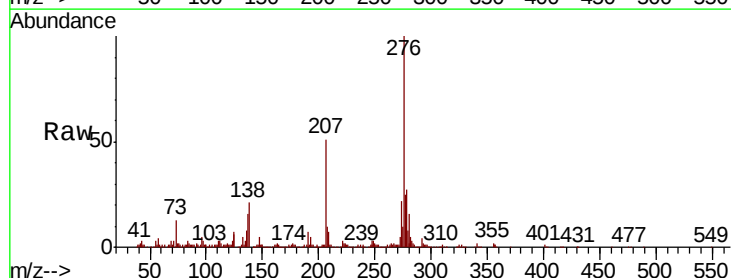
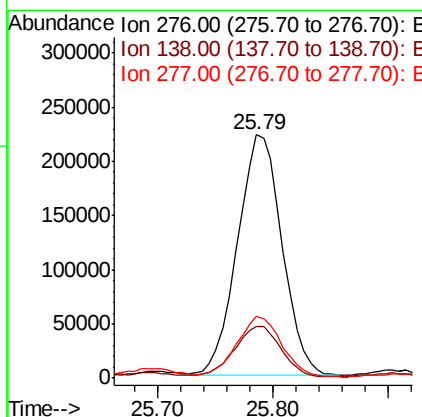
Manual Integrations
APPROVED

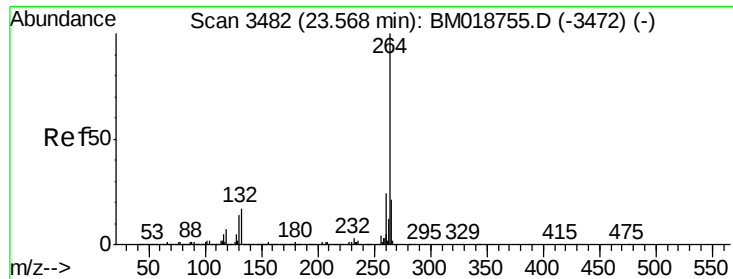
Sohil
3/6/2019 5:20:43 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 6.622 ng
RT: 25.79 min Scan# 3859
Delta R.T. -0.03 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.9	20.2	30.4
277	25.4	20.3	30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.52 min Scan# 3474

Delta R.T. -0.01 min

Lab File: BM019057.D

Acq: 06 Mar 2019 04:52

Instrument :

BNA_M

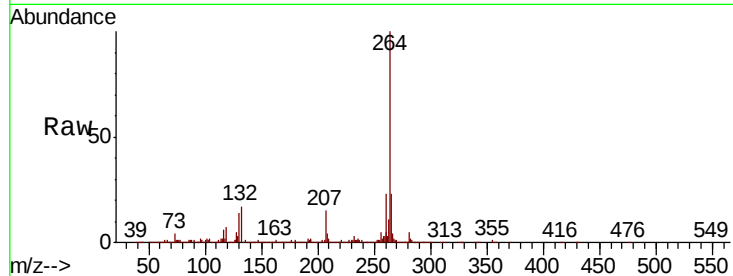
ClientSampleId :

PST-027-B113-022719

Tot Ion:	264	Resp:	1408581
Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.9	28.3
265	22.6	17.3	25.9

Manual Integrations
APPROVED

Sohil
3/6/2019 5:20:43 PM

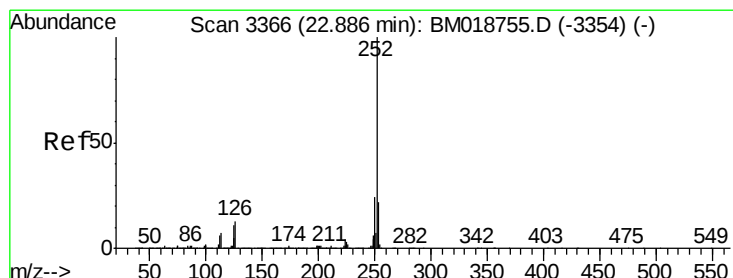
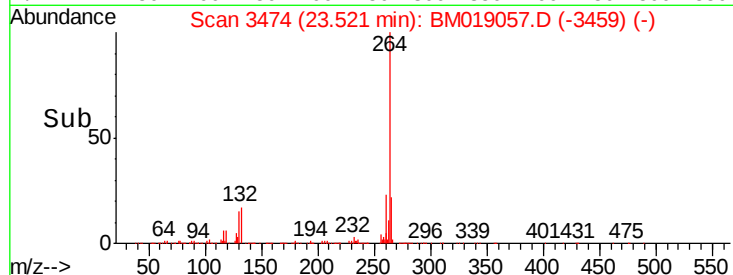
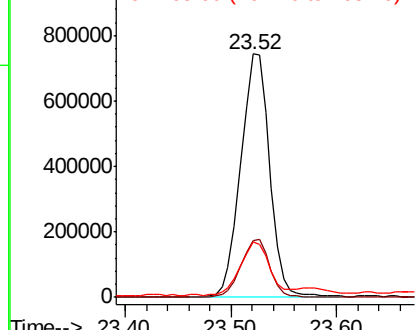


Abundance

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



#88

Benzo(b)fluoranthene

Concen: 18.628 ng m

RT: 22.85 min Scan# 3360

Delta R.T. -0.01 min

Lab File: BM019057.D

Acq: 06 Mar 2019 04:52

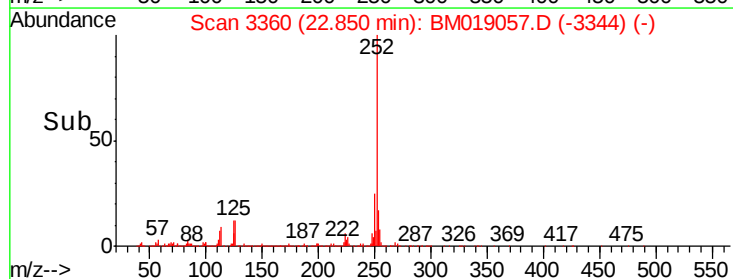
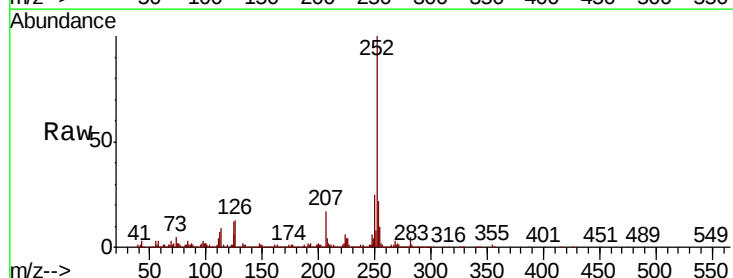
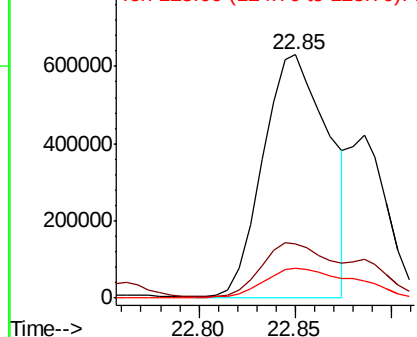
Tgt Ion:	252	Resp:	1501273
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	12.0	8.6	12.8

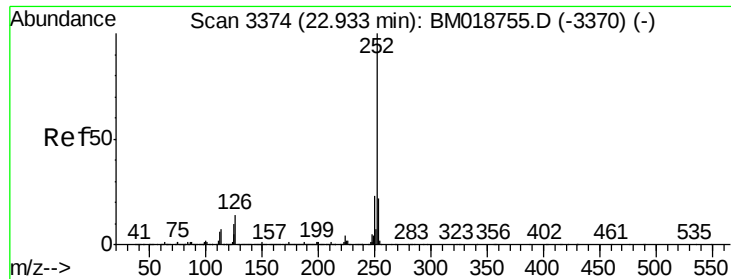
Abundance

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





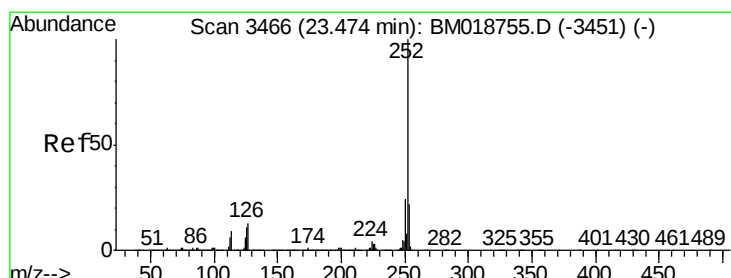
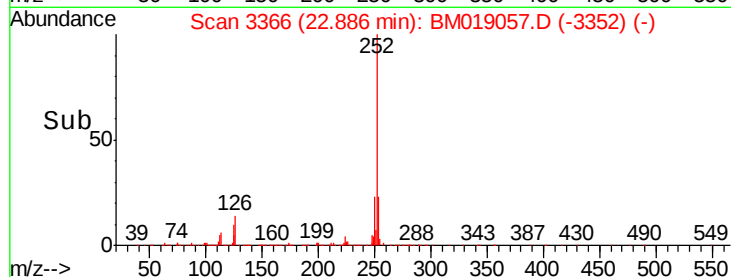
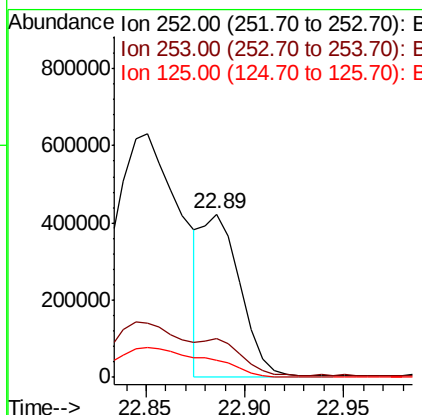
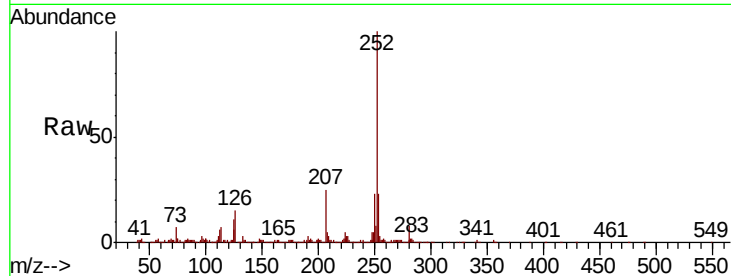
#89
Benzo(k)fluoranthene
Concen: 7.237 ng m
RT: 22.89 min Scan# 3366
Delta R.T. -0.02 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.7	26.5
125	10.7	8.2	12.4

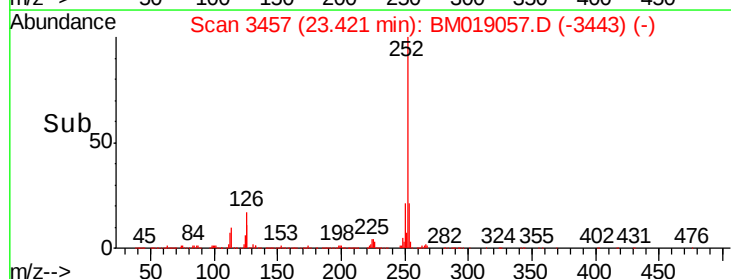
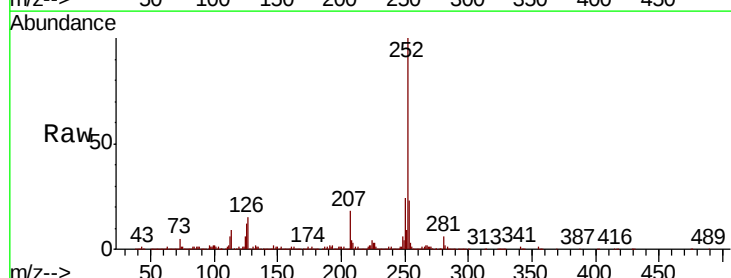
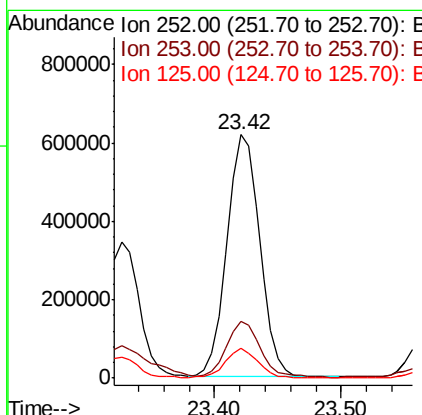
Manual Integrations
APPROVED

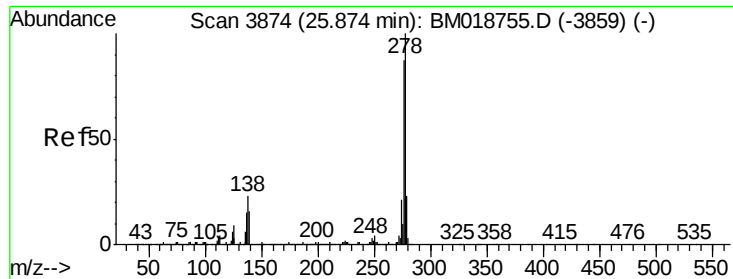
Sohil
3/6/2019 5:20:43 PM



#90
Benzo(a)pyrene
Concen: 14.512 ng
RT: 23.42 min Scan# 3457
Delta R.T. -0.02 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.0
125	12.1	8.6	13.0





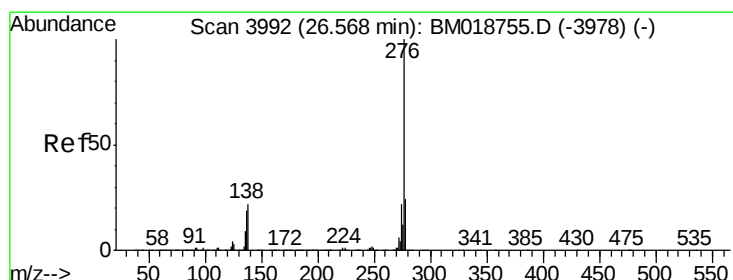
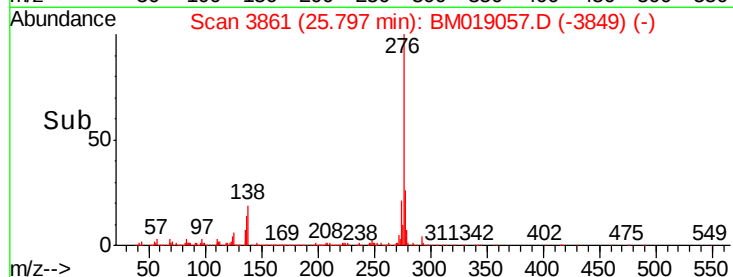
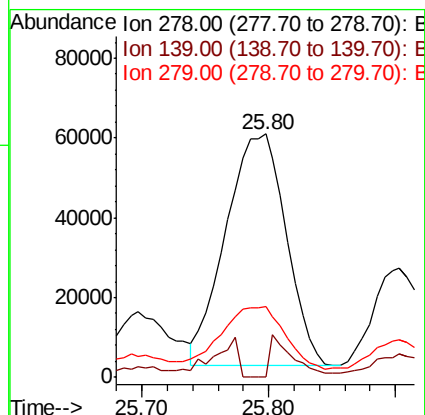
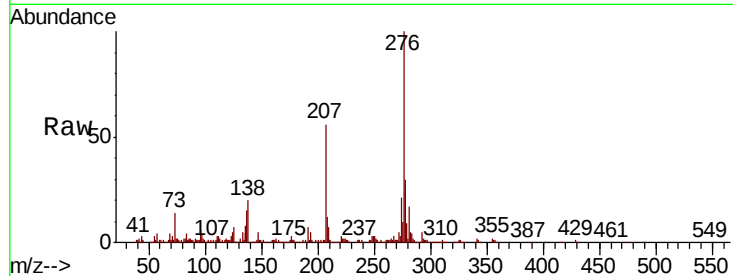
#91
Dibenzo(a,h)anthracene
Concen: 2.520 ng
RT: 25.80 min Scan# 3861
Delta R.T. -0.03 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Instrument :
BNA_M
ClientSampleId :
PST-027-B113-022719

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.6	18.8#
279	29.0	18.6	28.0#

Manual Integrations
APPROVED

Sohil
3/6/2019 5:20:43 PM



#92
Benzo(g,h,i)perylene
Concen: 6.917 ng
RT: 26.49 min Scan# 3979
Delta R.T. -0.02 min
Lab File: BM019057.D
Acq: 06 Mar 2019 04:52

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.2	28.8
138	21.0	17.3	25.9

