

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011619\
 Data File : BM018583.D
 Acq On : 16 Jan 2019 15:02
 Operator : JU/SJ
 Sample : K1102-01 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CPSB-18(15-20)

Manual Integrations
 APPROVED

Sohil
 1/17/2019 12:17:32 PM

Quant Time: Jan 16 17:33:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM010919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 16 13:36:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.75	152	139844	20.00	ng	0.00
21) Naphthalene-d8	10.54	136	620828	20.00	ng	0.00
39) Acenaphthene-d10	14.39	164	366991	20.00	ng	0.00
64) Phenanthrene-d10	17.14	188	873784	20.00	ng	0.00
76) Chrysene-d12	21.34	240	1130468	20.00	ng	0.00
87) Perylene-d12	23.62	264	1195600	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	138792	18.33	ng	0.00
7) Phenol-d6	6.92	99	190678	19.82	ng	0.00
23) Nitrobenzene-d5	8.91	82	103776	9.69	ng	0.00
42) 2,4,6-Tribromophenol	15.89	330	85730	18.35	ng	0.00
45) 2-Fluorobiphenyl	13.01	172	282314	10.04	ng	0.00
79) Terphenyl-d14	19.77	244	521743	9.73	ng	0.00
Target Compounds						
31) Naphthalene	10.59	128	60914	2.037	ng	# 83
35) Caprolactam	11.54	113	31812	10.289	ng	# 71
52) Acenaphthene	14.46	154	58540	2.642	ng	96
55) Dibenzofuran	14.79	168	87145	2.380	ng	# 92
58) Fluorene	15.44	166	121662	4.461	ng	96
71) Phenanthrene	17.19	178	1148715	24.716	ng	99
72) Anthracene	17.27	178	262757	5.879	ng	98
73) Carbazole	17.56	167	138772	3.022	ng	99
75) Fluoranthene	19.21	202	1111535	20.744	ng	98
78) Pyrene	19.57	202	948036	14.148	ng	98
81) Benzo(a)anthracene	21.33	228	554162	8.321	ng	98
83) Chrysene	21.38	228	502586m	7.815	ng	
86) Indeno(1,2,3-cd)pyrene	25.92	276	191127	2.577	ng	# 93
88) Benzo(b)fluoranthene	22.93	252	559526m	8.243	ng	
89) Benzo(k)fluoranthene	22.97	252	170678m	2.495	ng	
90) Benzo(a)pyrene	23.51	252	382046	5.879	ng	94
92) Benzo(a,h,i)perylene	26.63	276	184532	2.880	ng	97

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

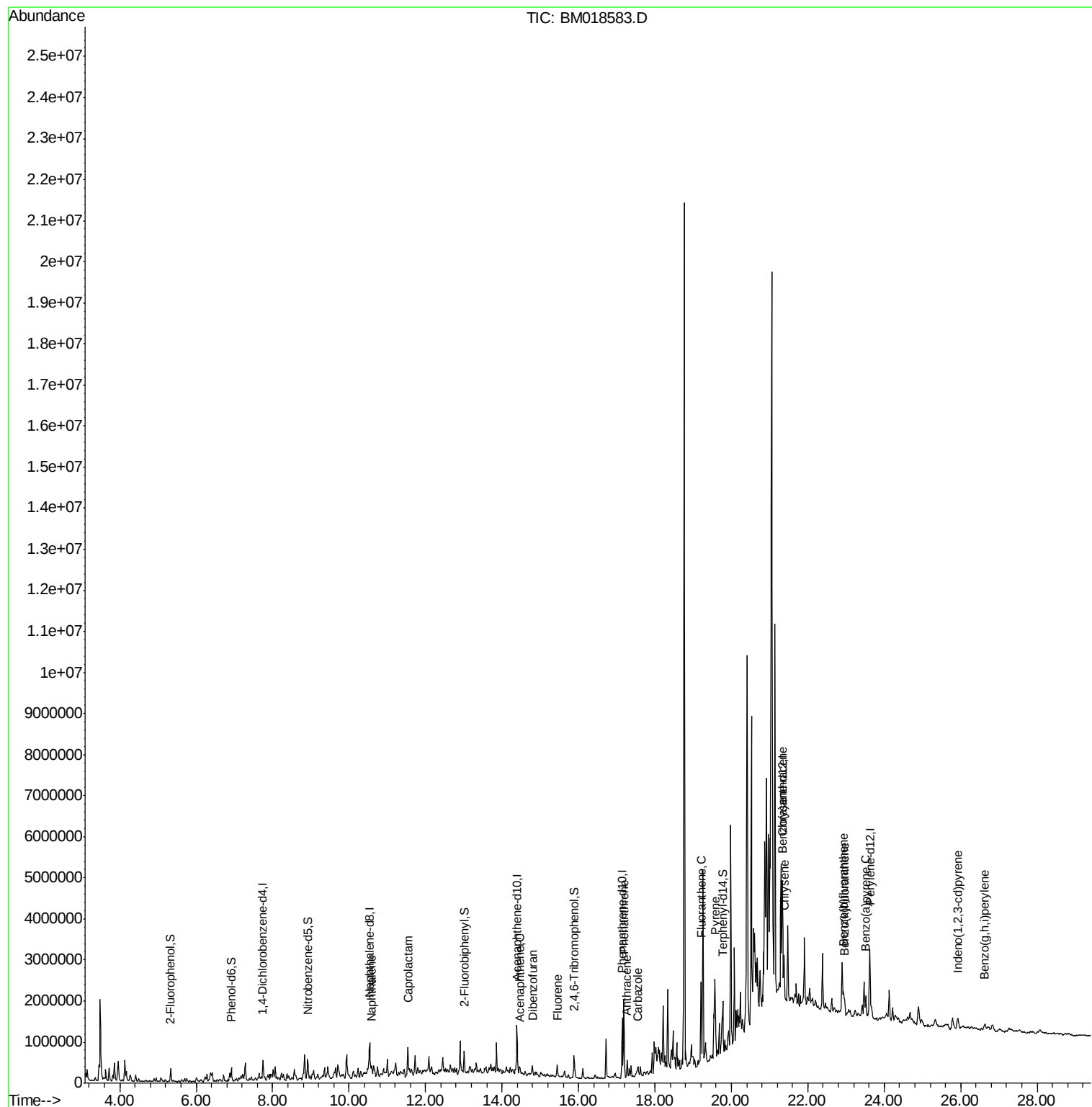
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011619\
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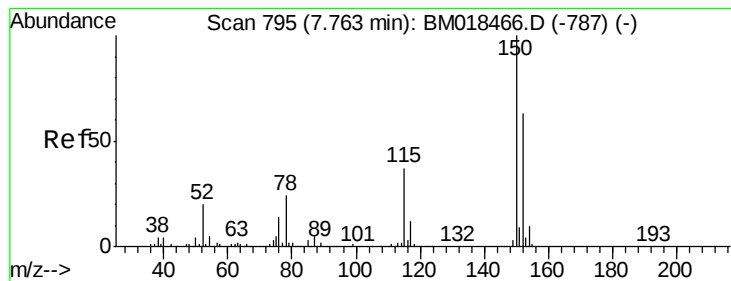
Instrument :
BNA_M
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CPSB-18(15-20)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM010919.M
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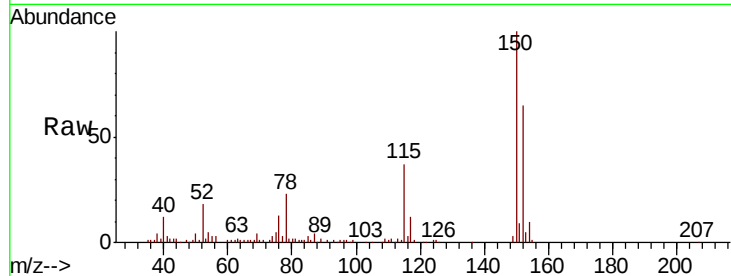
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.75 min Scan# 792
 Delta R.T. 0.00 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Instrument :
 BNA_M
 ClientSampleId :
 CPSB-18(15-20)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	126.9	190.3
115	56.6	45.5	68.3

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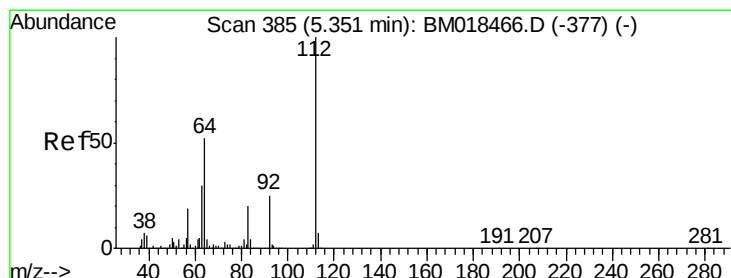
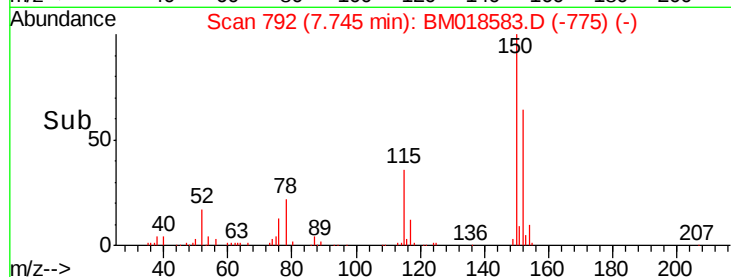
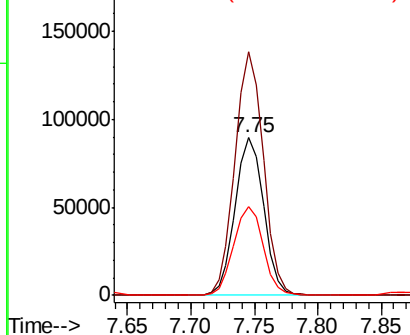


Abundance

Ion 152.00 (151.70 to 152.70): E

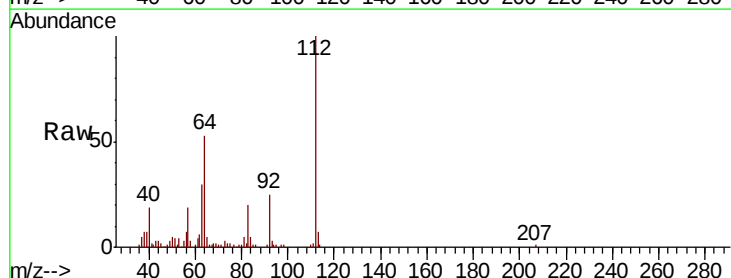
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 18.326 ng
 RT: 5.33 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.0	46.5	69.7
63	29.6	25.2	37.8

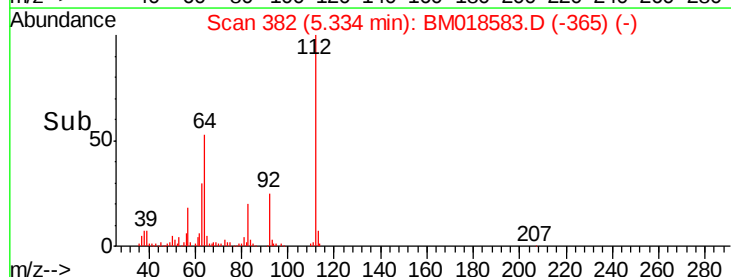
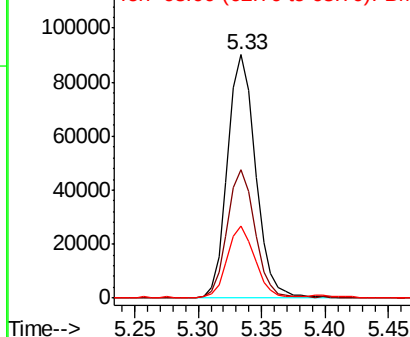


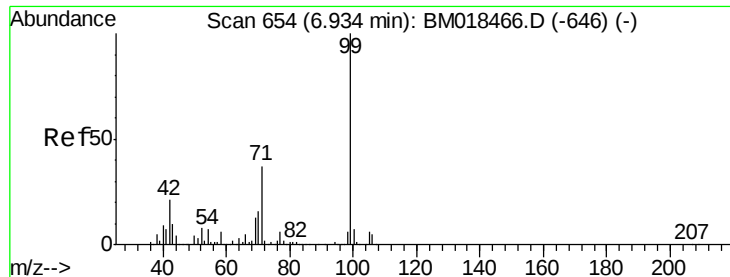
Abundance

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: 19.823 ng

RT: 6.92 min Scan# 651

Delta R.T. -0.01 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Instrument :

BNA_M

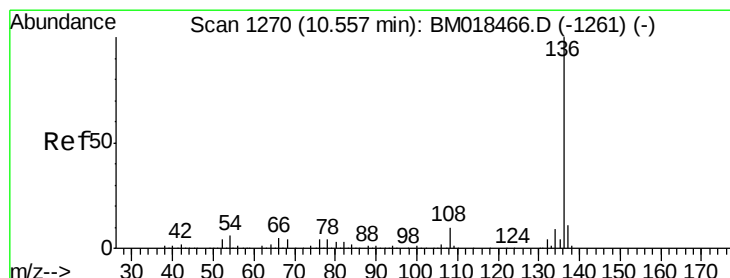
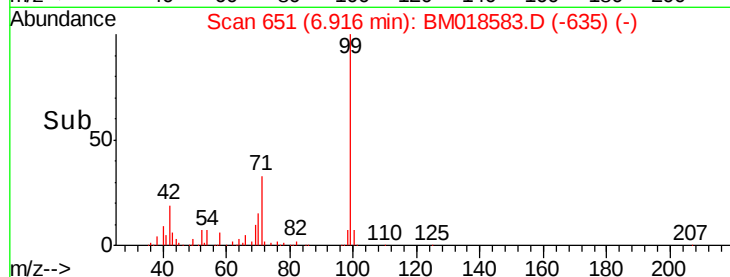
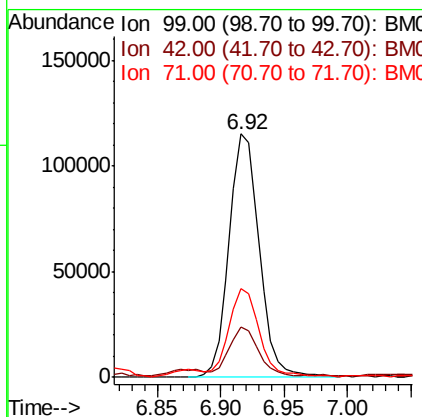
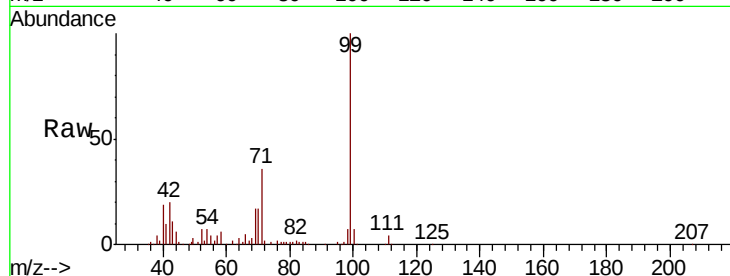
ClientSampleId :

CPSB-18(15-20)

Tot Ion:	99	Resp:	190678
Ion	Ratio	Lower	Upper
99	100		
42	20.4	17.3	25.9
71	36.4	28.0	42.0

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#21

Naphthalene-d8

Concen: 20.000 ng

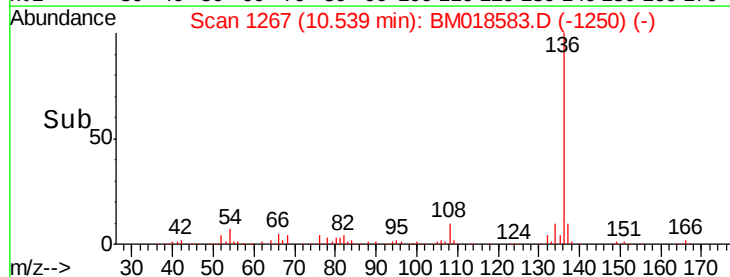
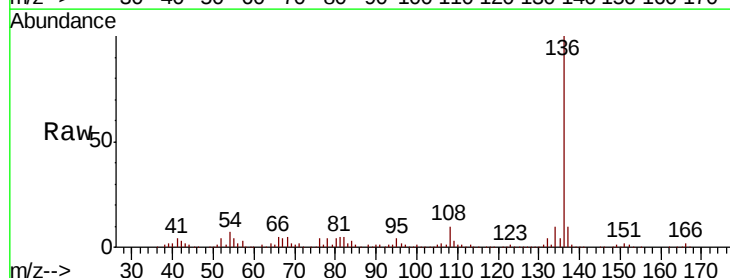
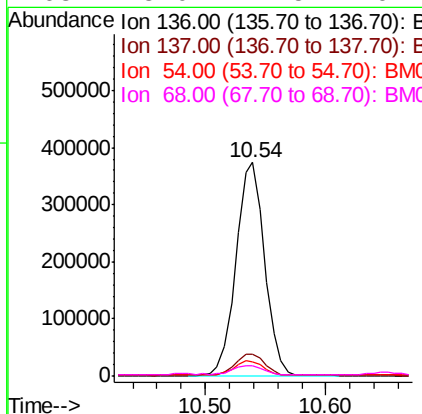
RT: 10.54 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Tgt Ion:	136	Resp:	620828
Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.5	12.7
54	6.8	6.0	9.0
68	5.0	4.5	6.7





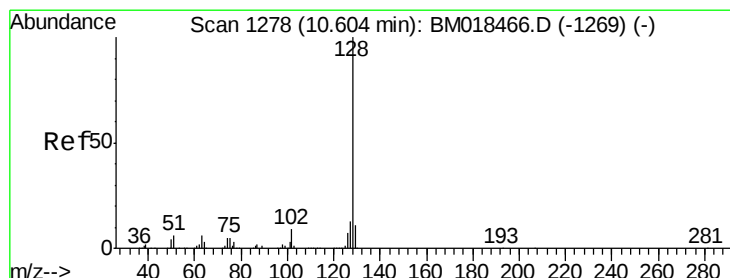
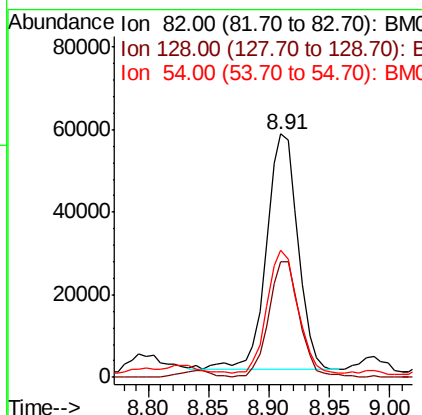
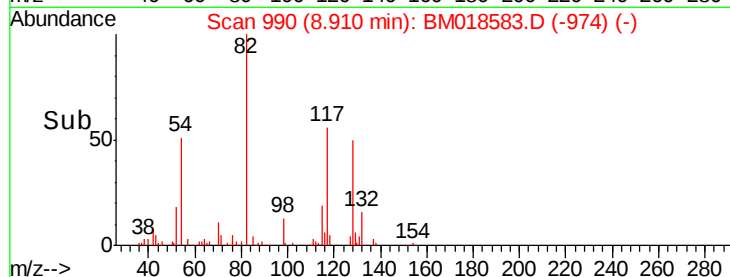
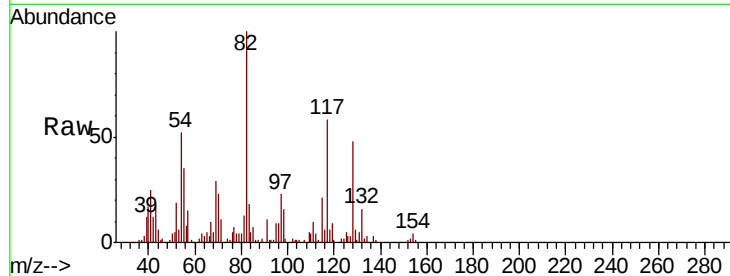
#23
 Nitrobenzene-d5
 Concen: 9.690 ng
 RT: 8.91 min Scan# 990
 Delta R.T. -0.01 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Instrument :
 BNA_M
 ClientSampleId :
 CPSB-18(15-20)

Tot Ion	82	Resp	103776
Ion Ratio	Lower	Upper	
82	100		
128	47.6	36.3	54.5
54	52.2	41.7	62.5

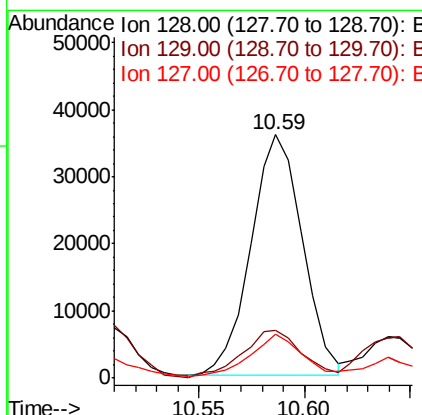
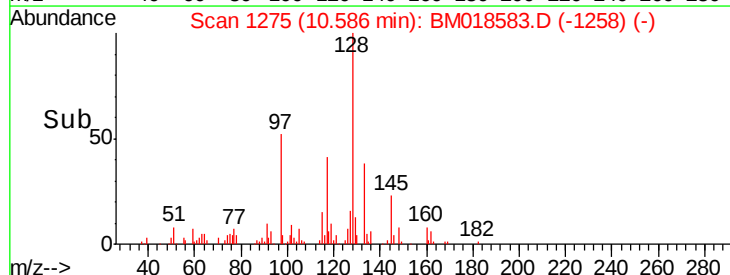
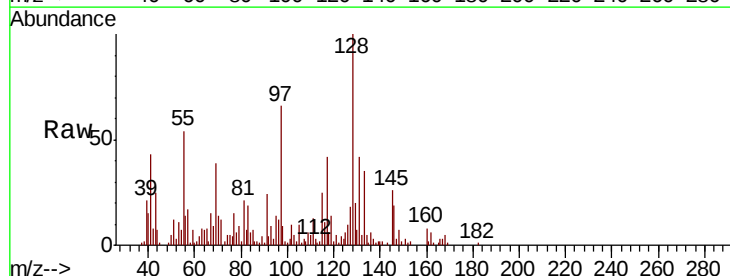
Manual Integrations
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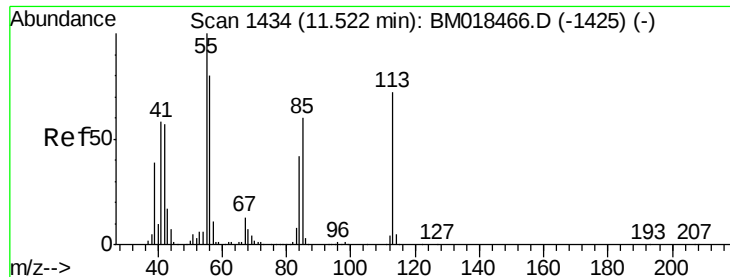
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#31
 Naphthalene
 Concen: 2.037 ng
 RT: 10.59 min Scan# 1275
 Delta R.T. 0.00 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Tgt Ion	128	Resp	60914
Ion Ratio	Lower	Upper	
128	100		
129	19.7	8.7	13.1#
127	18.2	10.8	16.2#





#35

Caprolactam

Concen: 10.289 ng

RT: 11.54 min Scan# 1437

Delta R.T. 0.02 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Instrument :

BNA_M

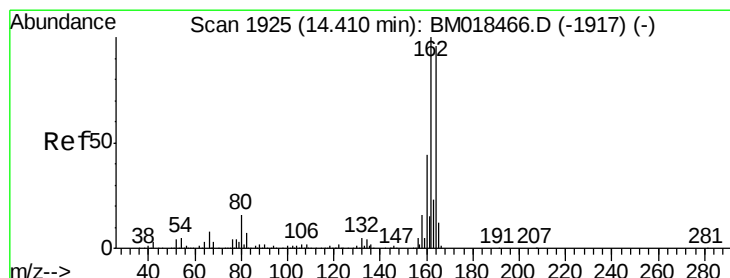
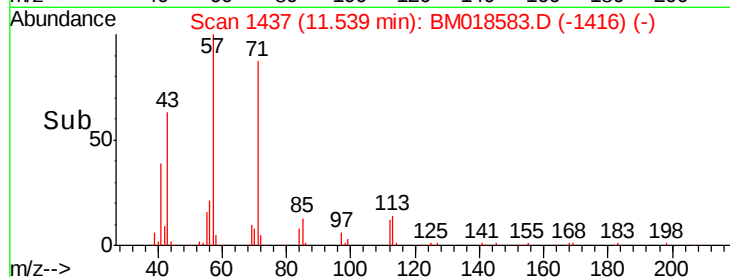
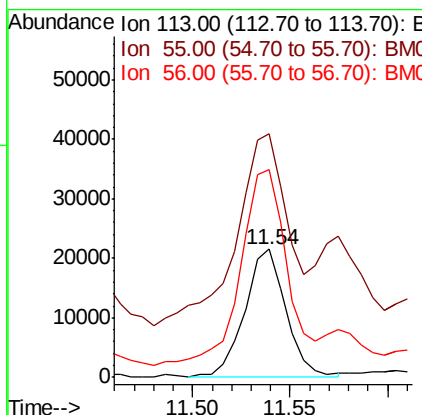
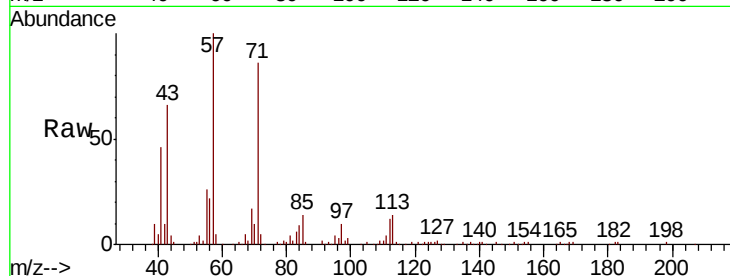
ClientSampled :

CPSB-18(15-20)

Tot Ion	Ratio	Lower	Upper
113	100		
55	190.1	139.3	179.3#
56	161.9	101.4	141.4#

Manual Integrations
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1/17/2019 12:17:32 PM



#39

Acenaphthene-d10

Concen: 20.000 ng

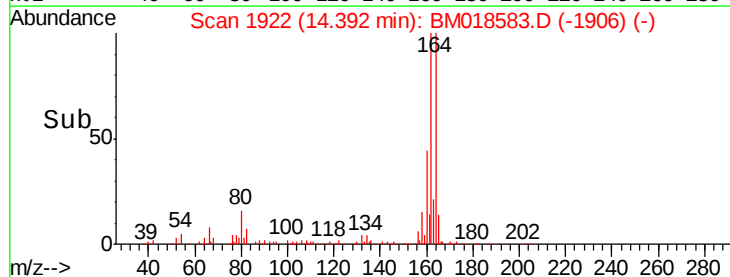
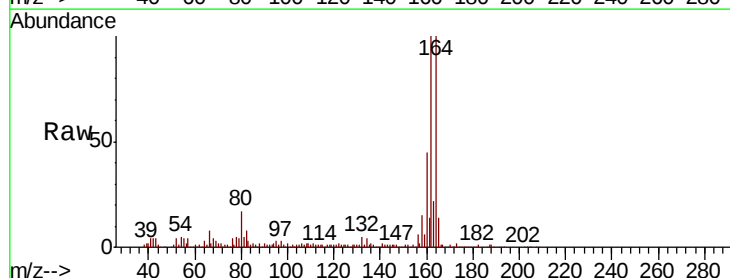
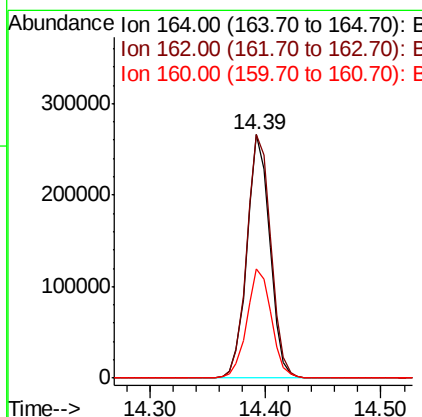
RT: 14.39 min Scan# 1922

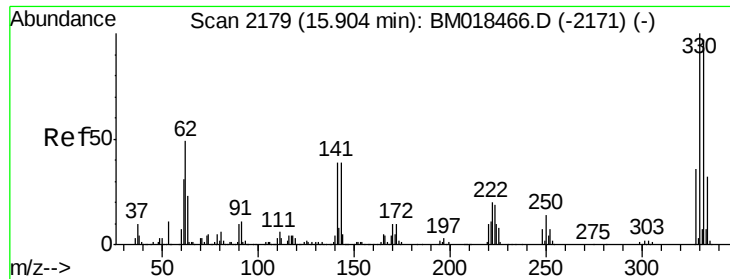
Delta R.T. -0.01 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.0	83.0	124.4
160	44.7	37.1	55.7





#42

2,4,6-Tribromophenol

Concen: 18.347 ng

RT: 15.89 min Scan# 2176

Delta R.T. -0.01 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Instrument :

BNA_M

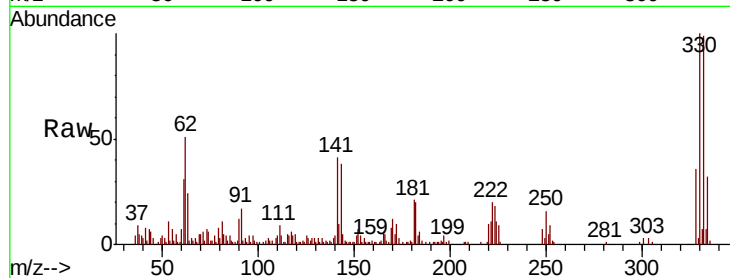
ClientSampleId :

CPSB-18(15-20)

Tot Ion:	330	Resp:	85730
Ion Ratio	Lower	Upper	
330	100		
332	97.5	77.6	116.4
141	37.2	31.7	47.5

Manual Integrations
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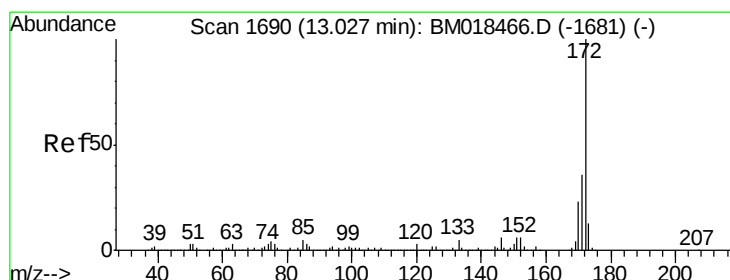
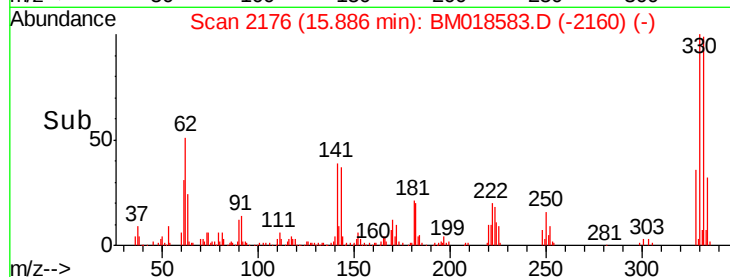
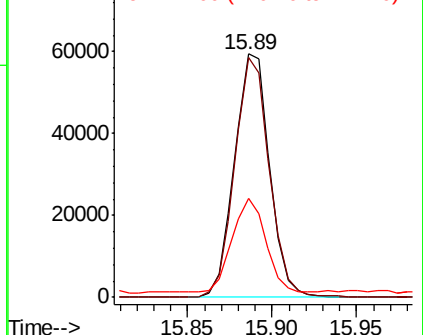


Abundance

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: 10.038 ng

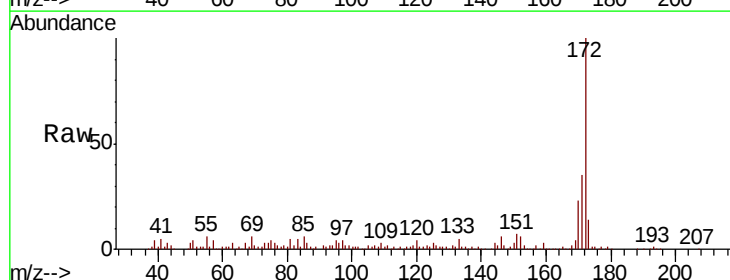
RT: 13.01 min Scan# 1687

Delta R.T. 0.00 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Tgt Ion:	172	Resp:	282314
Ion Ratio	Lower	Upper	
172	100		
171	35.1	28.2	42.4
170	23.3	18.9	28.3

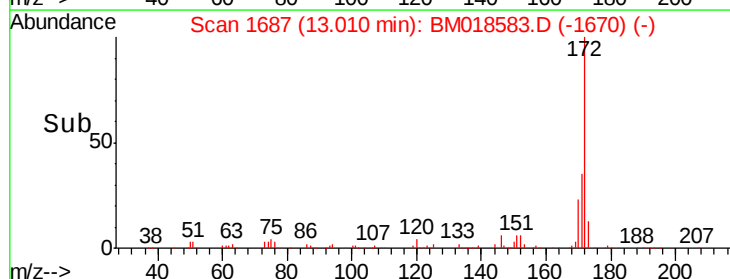
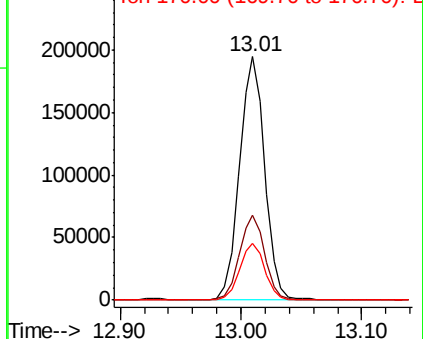


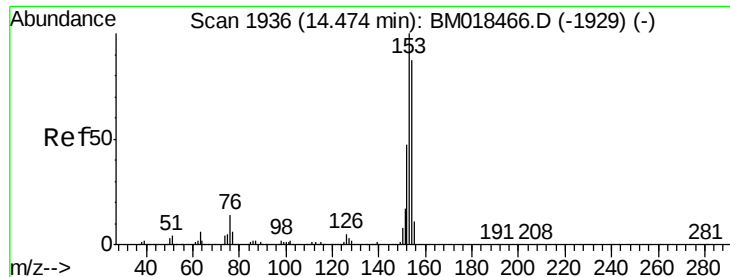
Abundance

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





#52

Acenaphthene

Concen: 2.642 ng

RT: 14.46 min Scan# 1933

Delta R.T. 0.00 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Instrument :

BNA_M

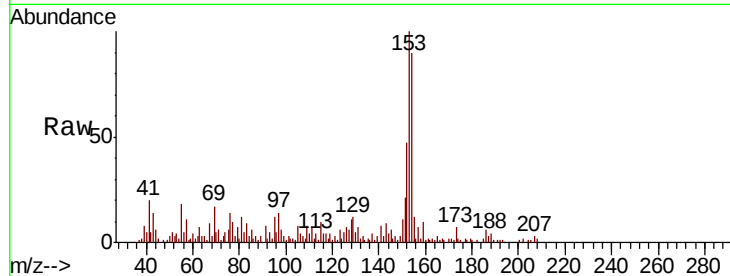
ClientSampleId :

CPSB-18(15-20)

Tot Ion:	154	Resp:	58540
Ion	Ratio	Lower	Upper
154	100		
153	111.0	92.3	138.5
152	52.7	43.8	65.6

Manual Integrations
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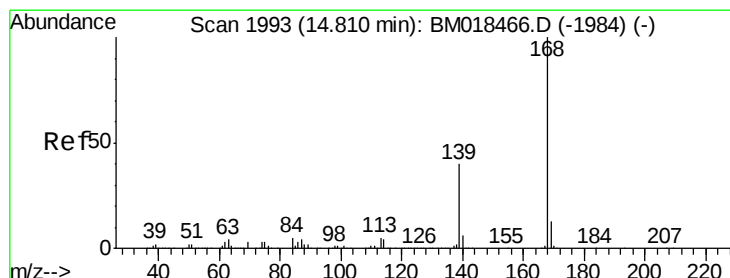
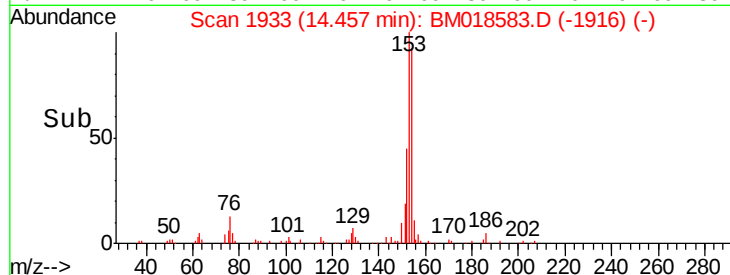
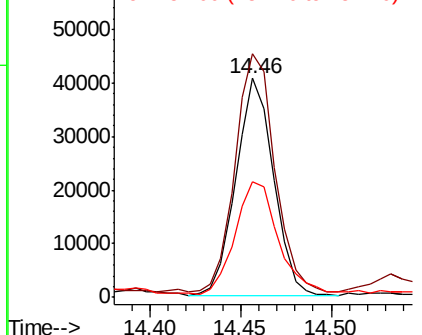


Abundance

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: 2.380 ng

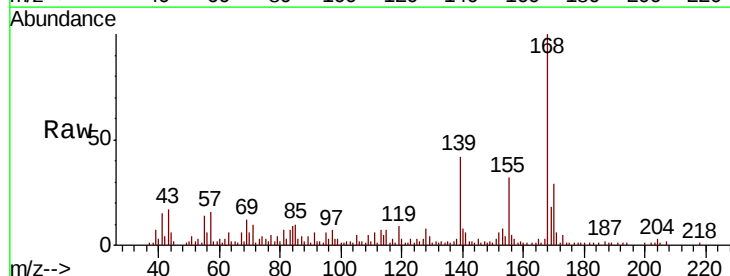
RT: 14.79 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Tgt Ion:	168	Resp:	87145
Ion	Ratio	Lower	Upper
168	100		
139	42.0	30.3	45.5
169	18.1	10.6	16.0#

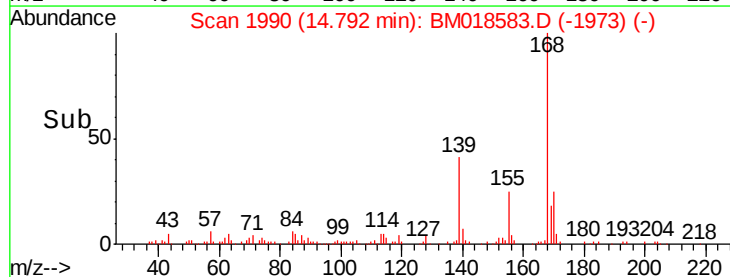
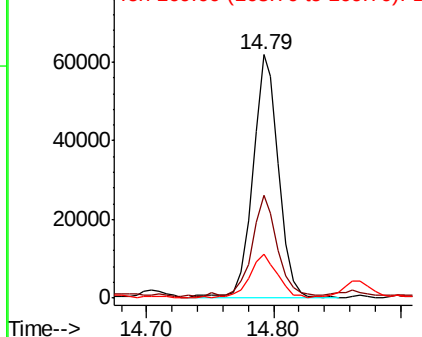


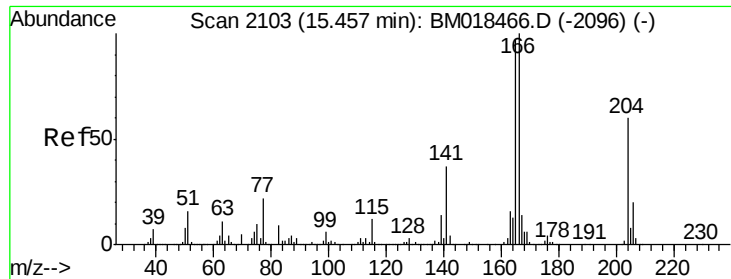
Abundance

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





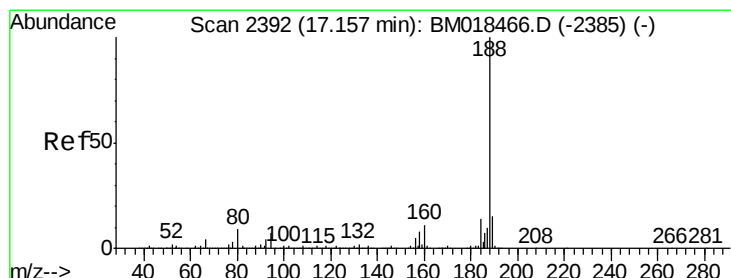
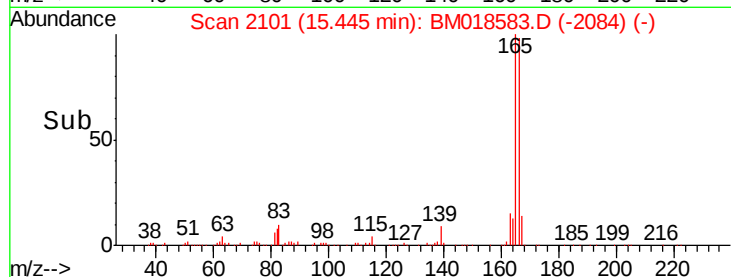
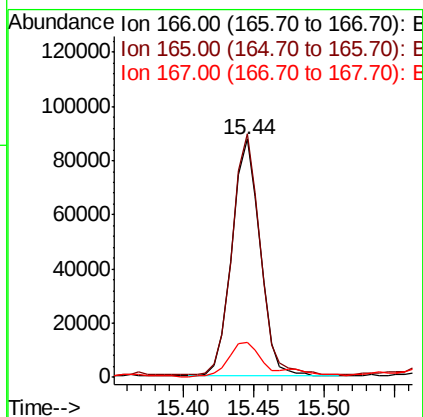
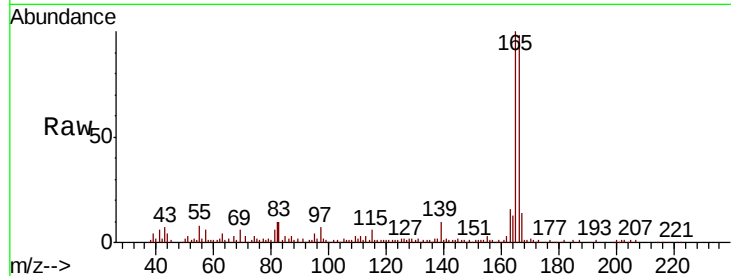
#58
Fluorene
 Concen: 4.461 ng
 RT: 15.44 min Scan# 2101
 Delta R.T. 0.00 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Instrument :
 BNA_M
 ClientSampleId :
 CPSB-18(15-20)

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.2	78.3	117.5
167	14.7	10.9	16.3

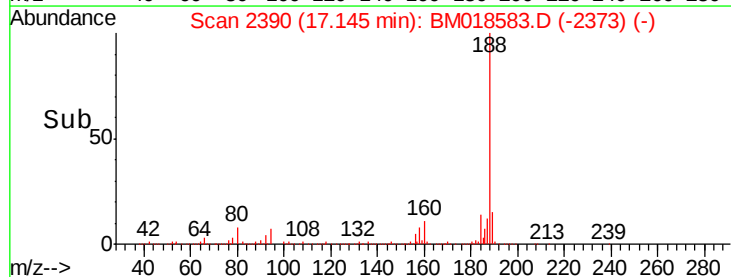
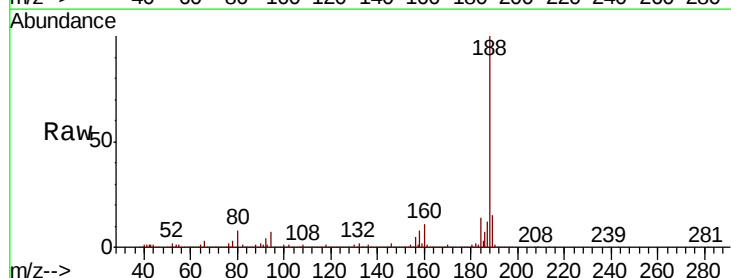
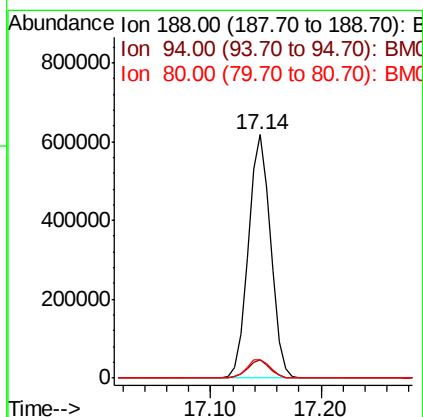
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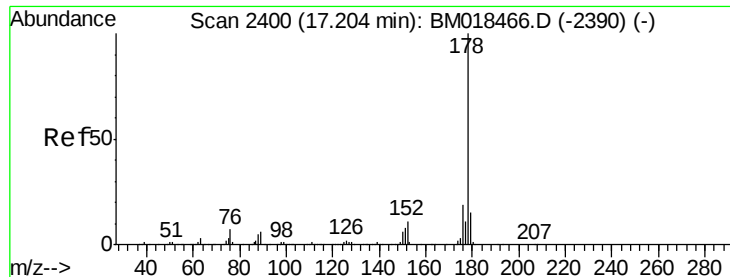
Sohil
 1/17/2019 12:17:32 PM



#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.14 min Scan# 2390
 Delta R.T. 0.00 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.4	7.1	10.7
80	7.7	7.6	11.4





#71

Phenanthrene

Concen: 24.716 ng

RT: 17.19 min Scan# 2397

Delta R.T. 0.00 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Instrument :

BNA_M

ClientSampleId :

CPSB-18(15-20)

Tot Ion:178 Resp: 1148715

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.0

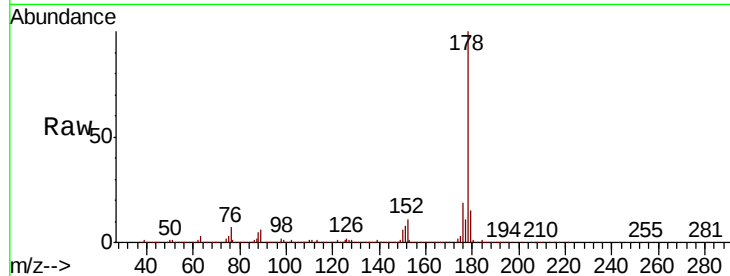
179 15.1 12.2 18.4

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Sohil

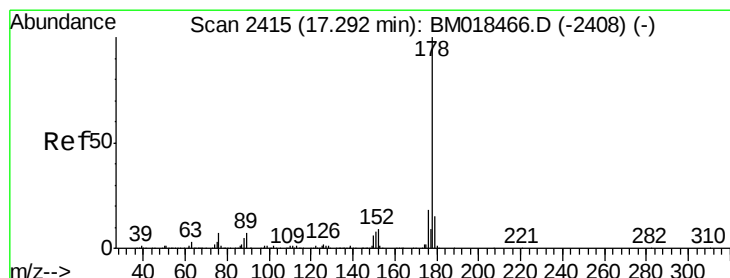
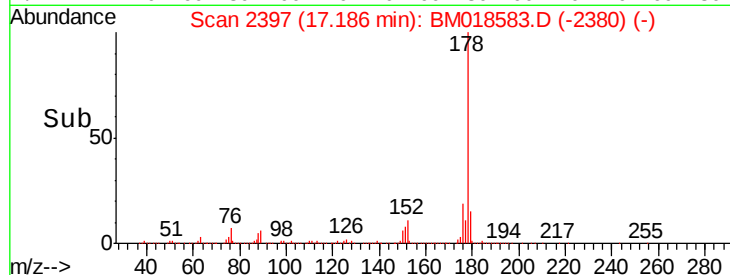
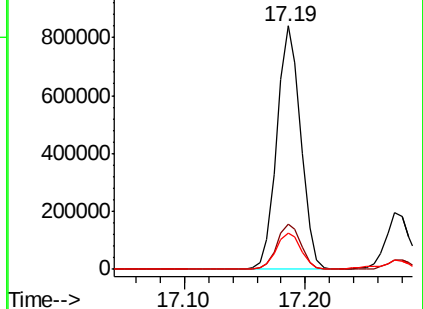
1/17/2019 12:17:32 PM



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: 5.879 ng

RT: 17.27 min Scan# 2412

Delta R.T. -0.01 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

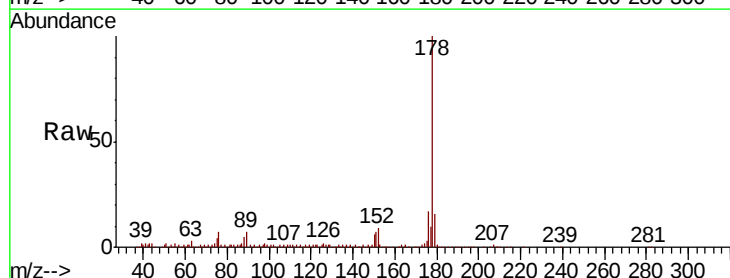
Tgt Ion:178 Resp: 262757

Ion Ratio Lower Upper

178 100

176 17.5 14.7 22.1

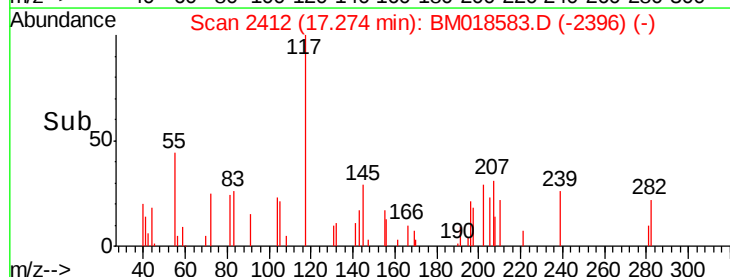
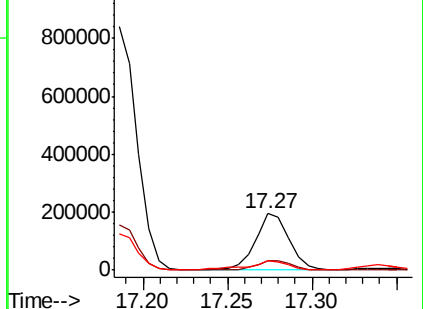
179 15.8 12.2 18.4

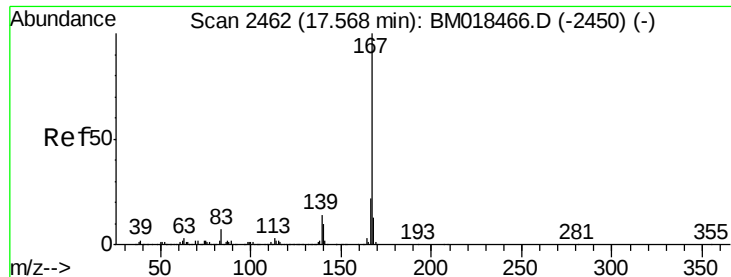


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





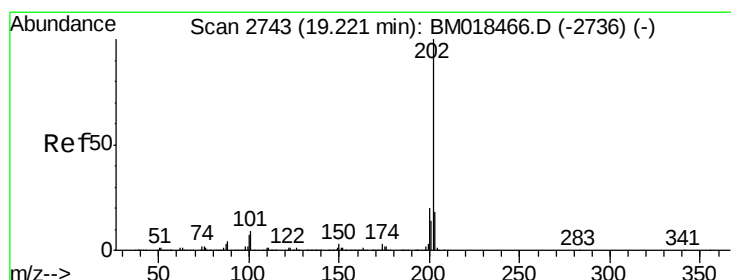
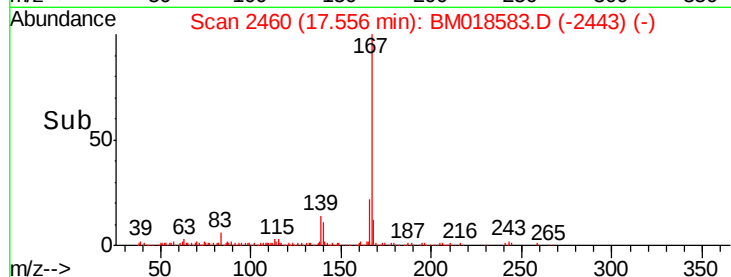
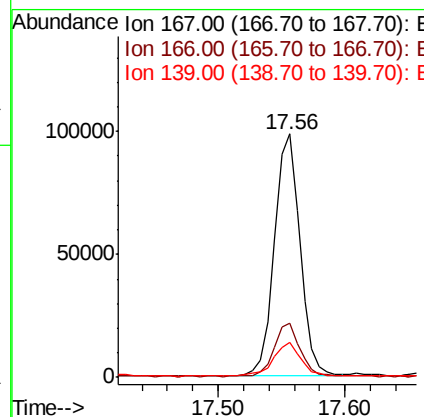
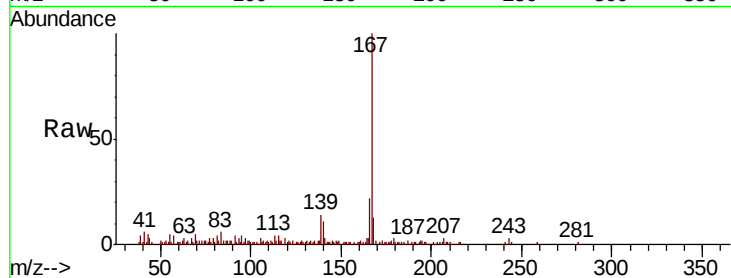
#73
 Carbazole
 Concen: 3.022 ng
 RT: 17.56 min Scan# 2460
 Delta R.T. 0.00 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Instrument :
 BNA_M
 ClientSampleId :
 CPSB-18(15-20)

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.4	26.2
139	14.2	10.6	16.0

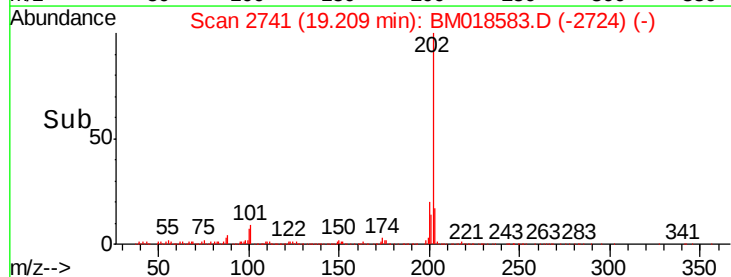
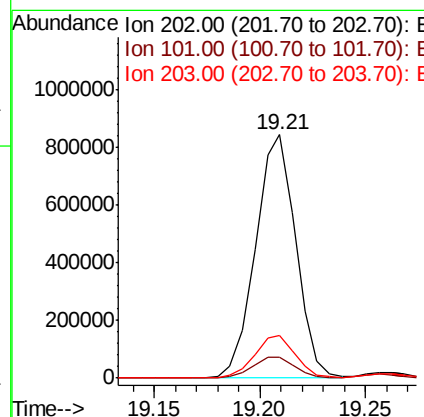
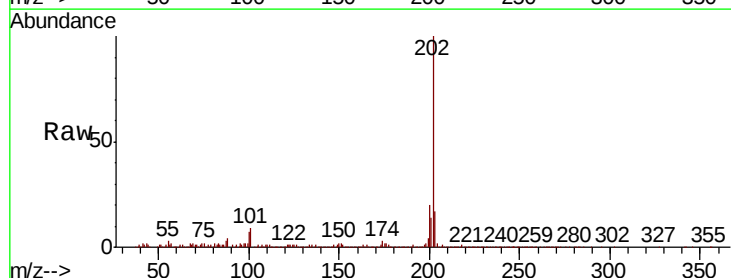
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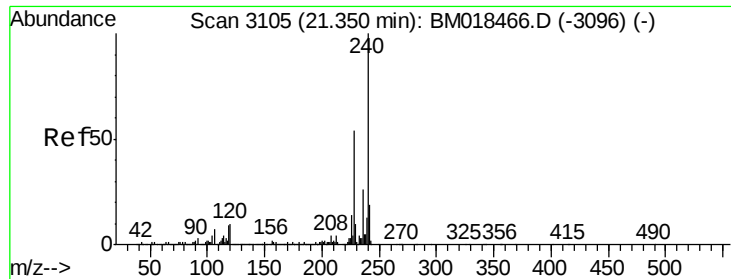
Sohil
 1/17/2019 12:17:32 PM



#75
 Fluoranthene
 Concen: 20.744 ng
 RT: 19.21 min Scan# 2741
 Delta R.T. 0.00 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.8	0.0	30.9
203	17.3	0.0	37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.34 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Instrument :

BNA_M

ClientSampleId :

CPSB-18(15-20)

Tot Ion:240 Resp: 1130468

Ion Ratio Lower Upper

240 100

120 9.9 8.4 12.6

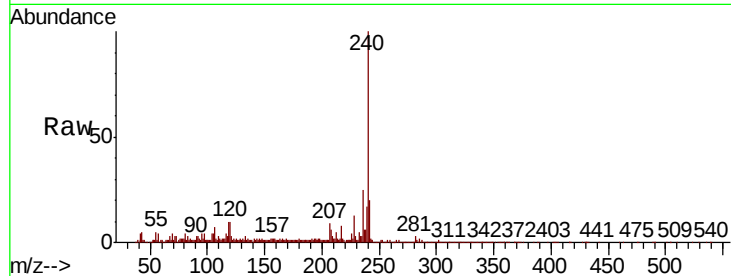
236 25.4 20.7 31.1

Manual Integrations

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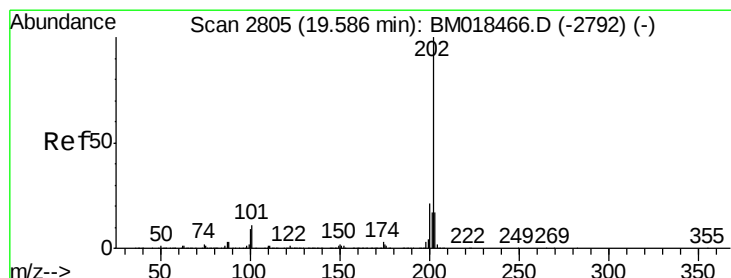
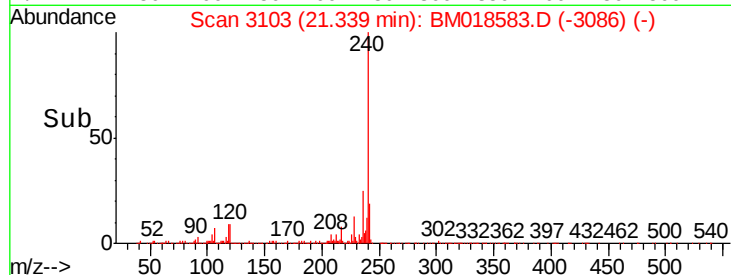
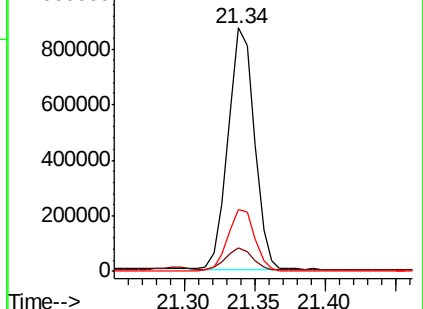
1/17/2019 12:17:32 PM



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: 14.148 ng

RT: 19.57 min Scan# 2802

Delta R.T. 0.00 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

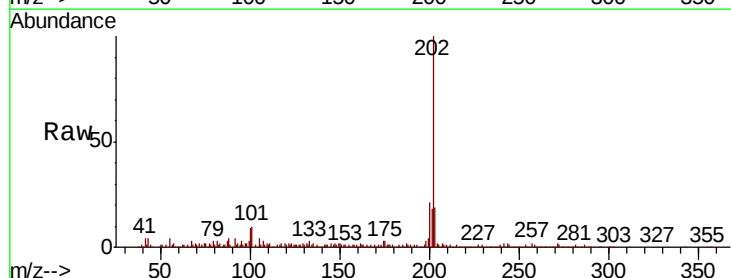
Tgt Ion:202 Resp: 948036

Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

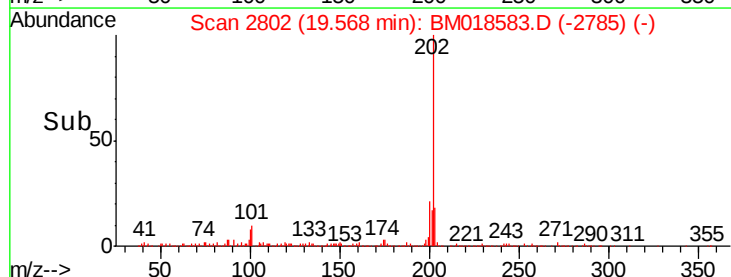
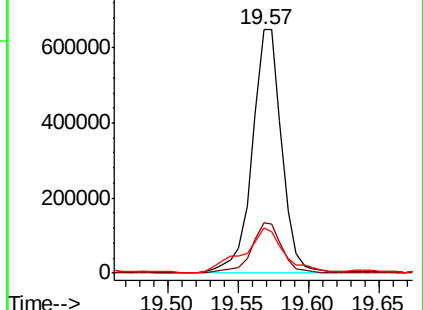
203 18.7 13.8 20.8

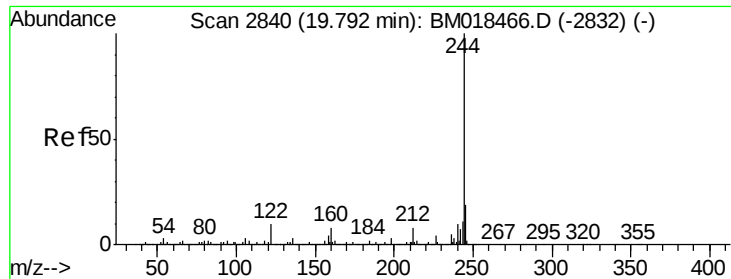


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





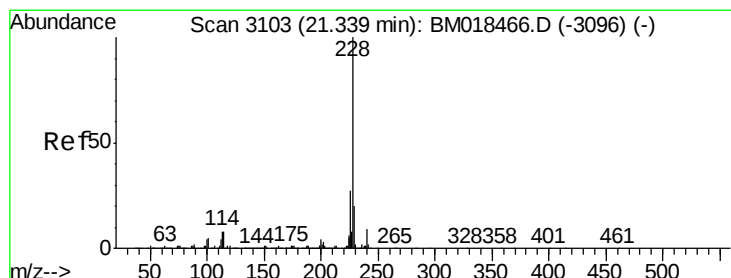
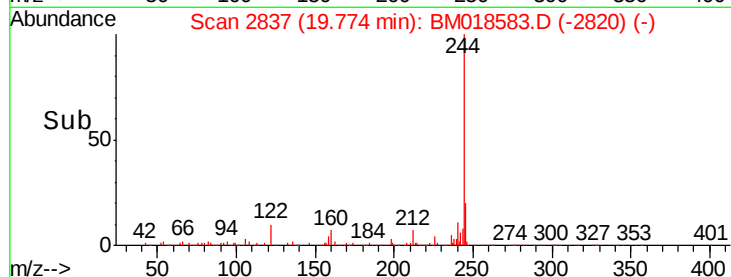
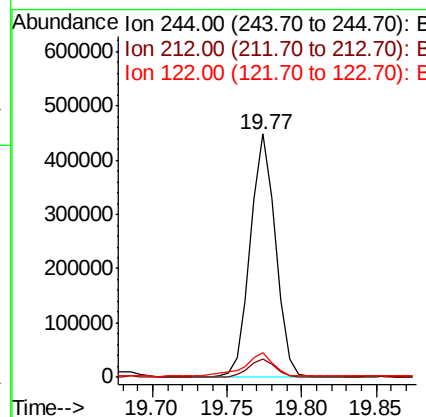
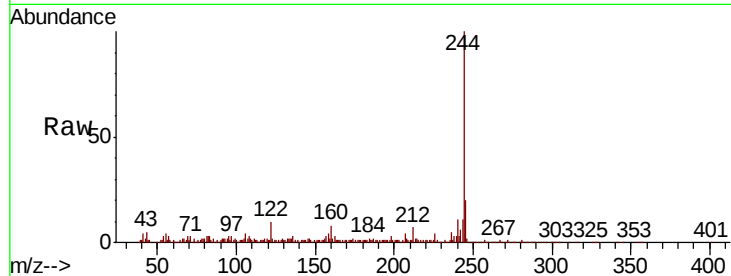
#79
 Terphenyl-d14
 Concen: 9.729 ng
 RT: 19.77 min Scan# 2837
 Delta R.T. 0.00 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Instrument :
 BNA_M
 ClientSampleId :
 CPSB-18(15-20)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.9	8.9
122	10.2	9.0	13.4

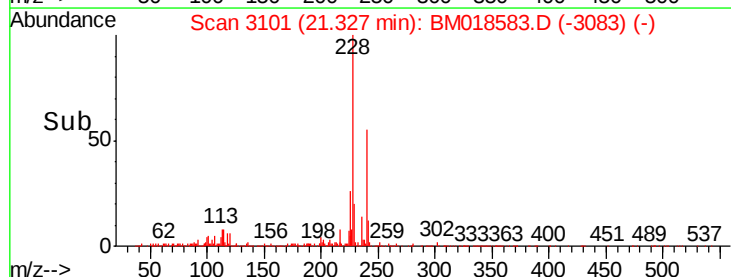
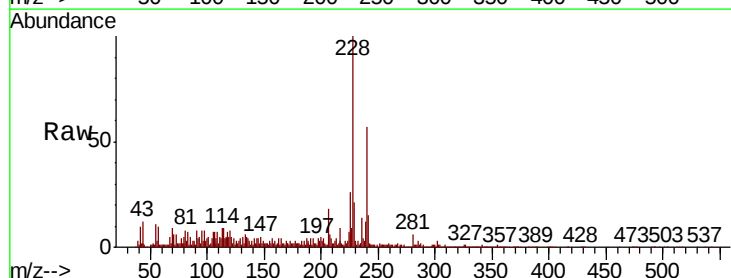
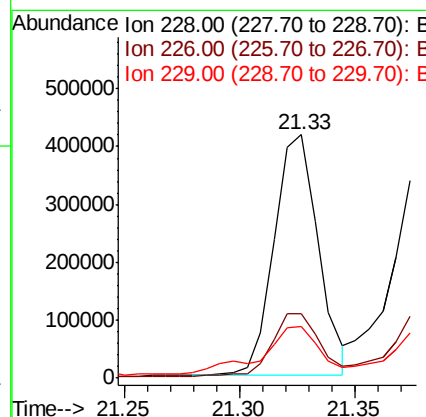
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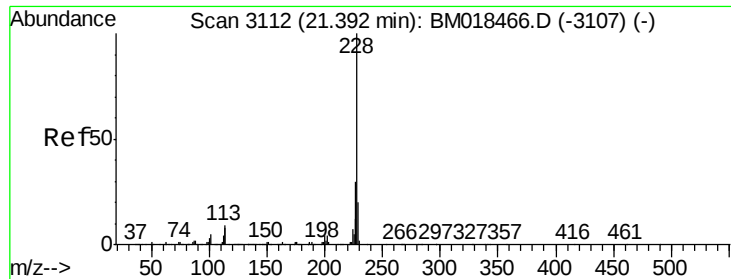
Sohil
 1/17/2019 12:17:32 PM



#81
 Benzo(a)anthracene
 Concen: 8.321 ng
 RT: 21.33 min Scan# 3101
 Delta R.T. 0.01 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.2	21.8	32.6
229	21.2	15.8	23.8





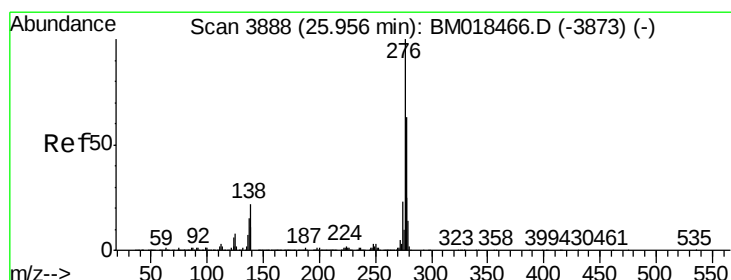
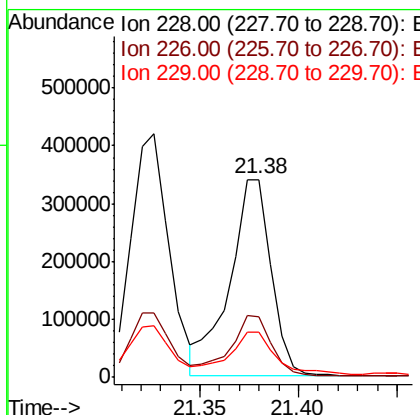
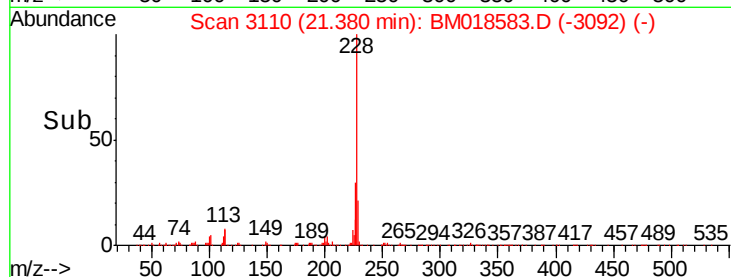
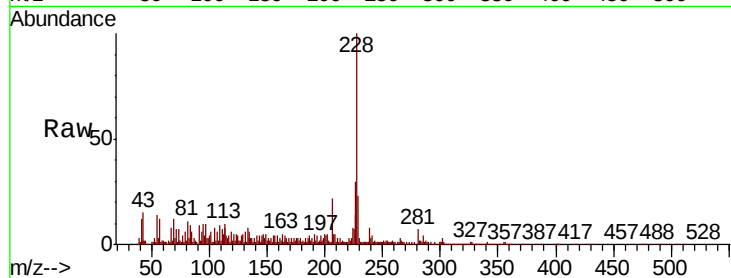
#83
Chrysene
Concen: 7.815 ng/ml
RT: 21.38 min Scan# 3110
Delta R.T. 0.01 min
Lab File: BM018583.D
Acq: 16 Jan 2019 15:02

Instrument :
BNA_M
ClientSampleId :
CPSB-18(15-20)

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.2	36.2
229	22.7	15.6	23.4

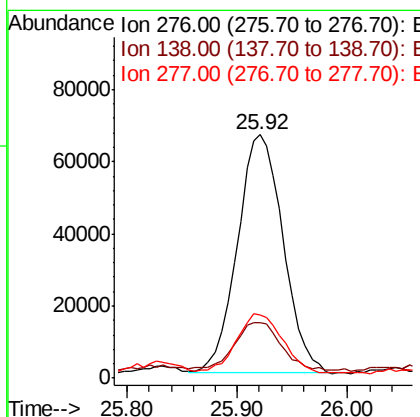
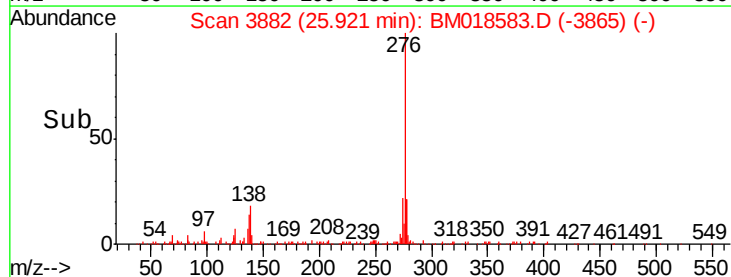
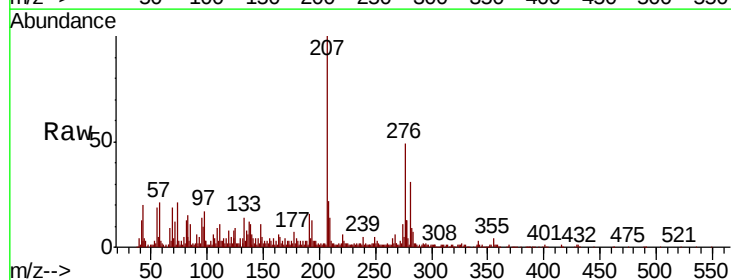
Manual Integrations
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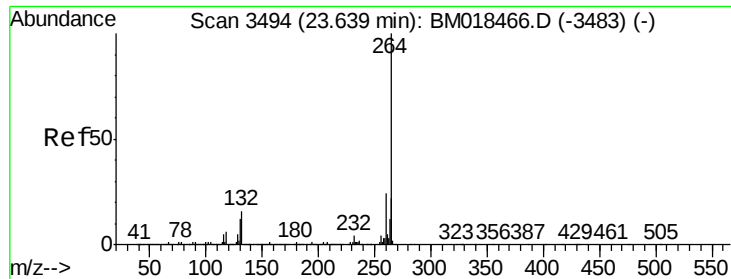
Sohil
1/17/2019 12:17:32 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.577 ng
RT: 25.92 min Scan# 3882
Delta R.T. 0.00 min
Lab File: BM018583.D
Acq: 16 Jan 2019 15:02

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.2	21.5	32.3#
277	25.1	20.2	30.2





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.62 min Scan# 3491

Delta R.T. 0.01 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

Instrument :

BNA_M

ClientSampleId :

CPSB-18(15-20)

Tot Ion:264 Resp: 1195600

Ion Ratio Lower Upper

264 100

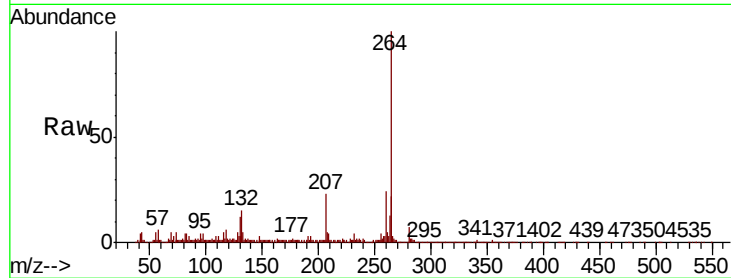
260 23.8 18.9 28.3

265 22.4 16.8 25.2

Manual Integrations
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Sohil

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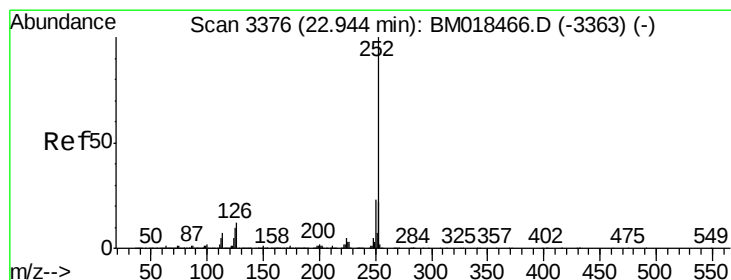
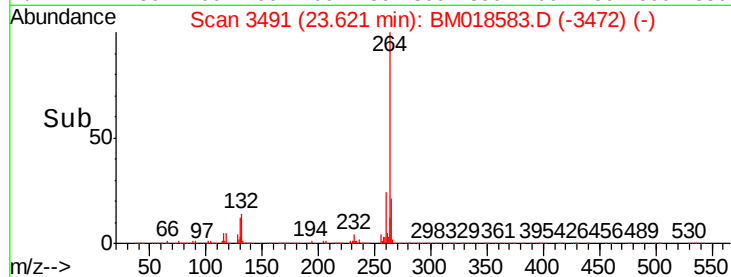
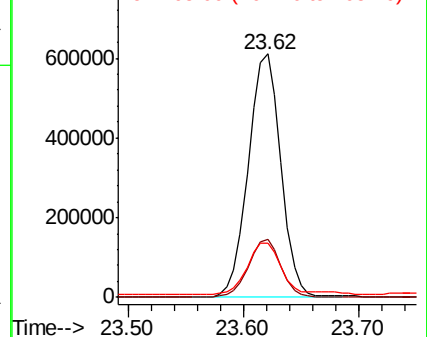


Abundance

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: 8.243 ng m

RT: 22.93 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BM018583.D

Acq: 16 Jan 2019 15:02

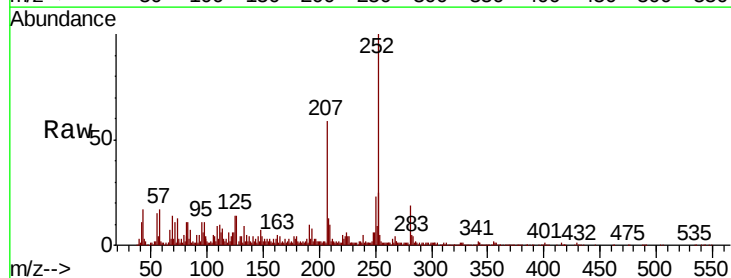
Tgt Ion:252 Resp: 559526

Ion Ratio Lower Upper

252 100

253 24.5 17.6 26.4

125 14.0 8.5 12.7#

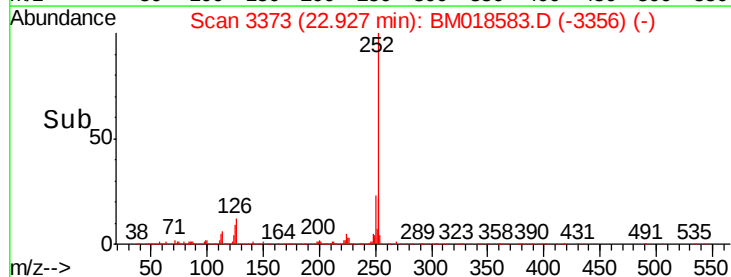
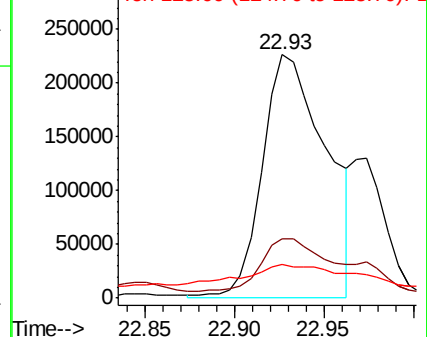


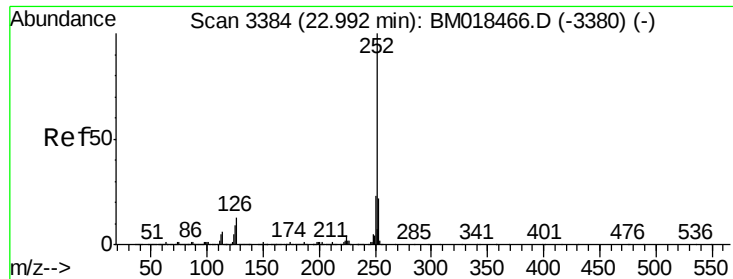
Abundance

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





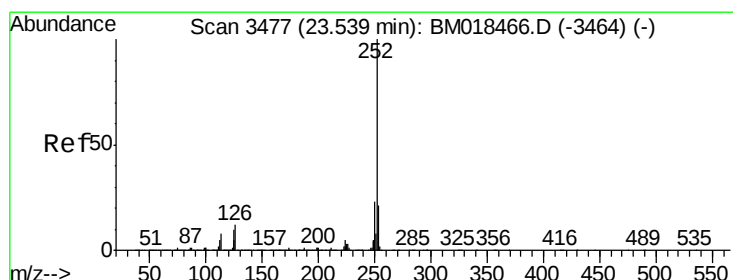
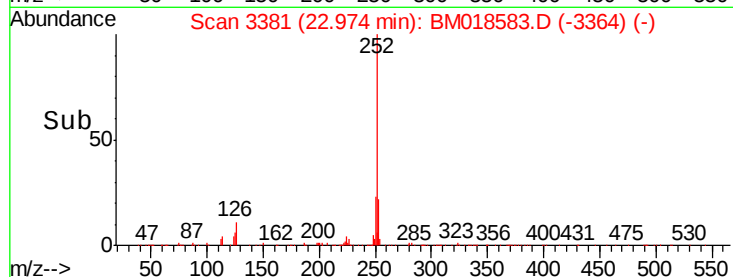
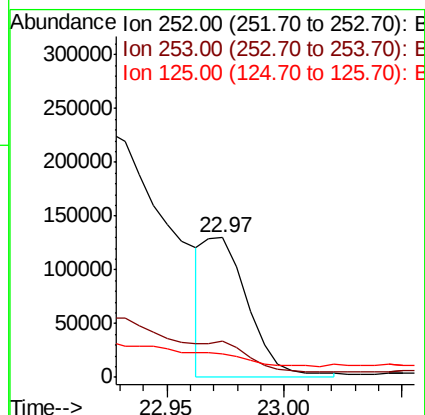
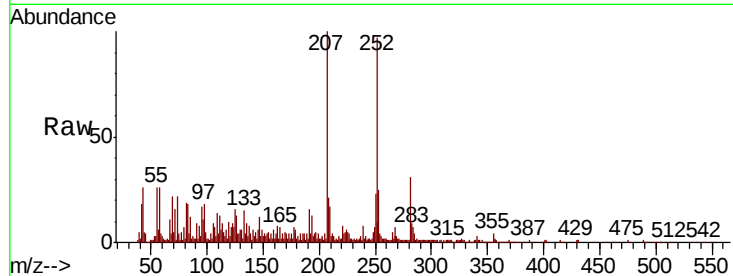
#89
Benzo(k)fluoranthene
Concen: 2.495 ng m
RT: 22.97 min Scan# 3381
Delta R.T. 0.00 min
Lab File: BM018583.D
Acq: 16 Jan 2019 15:02

Instrument :
BNA_M
ClientSampleId :
CPSB-18(15-20)

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.3	17.4	26.0#
125	16.4	8.6	12.8#

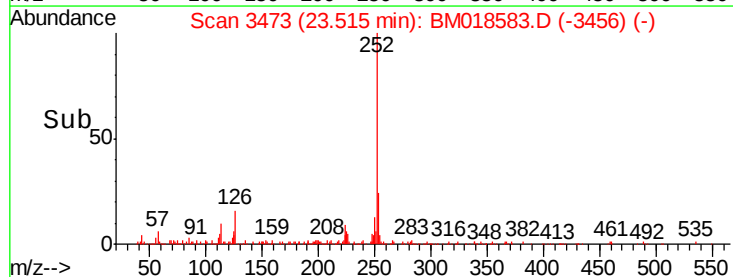
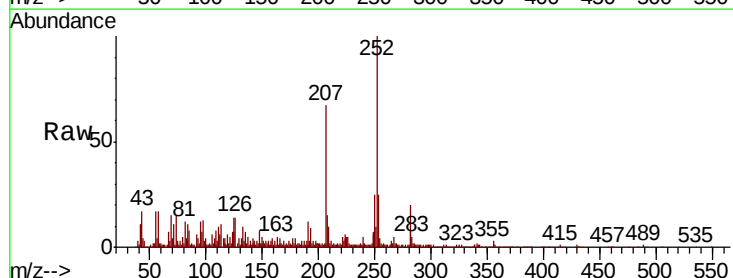
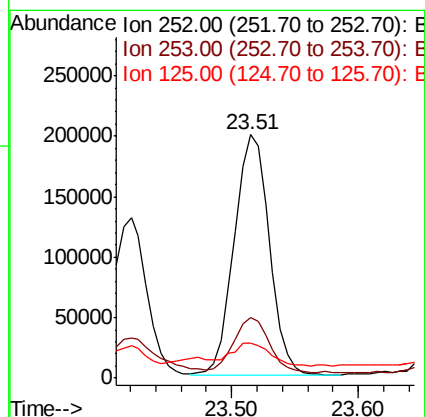
Manual Integrations
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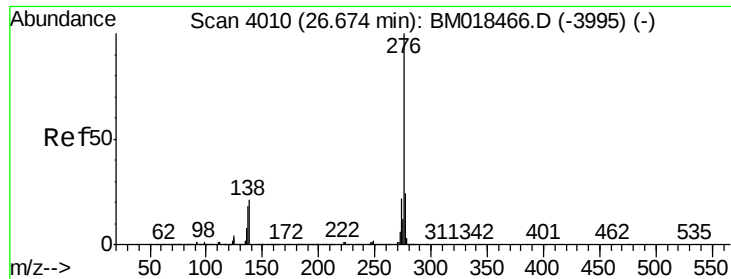
Sohil
1/17/2019 12:17:32 PM



#90
Benzo(a)pyrene
Concen: 5.879 ng
RT: 23.51 min Scan# 3473
Delta R.T. 0.00 min
Lab File: BM018583.D
Acq: 16 Jan 2019 15:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.5	26.3
125	14.4	9.7	14.5





#92
 Benzo(a,h,i)perylene
 Concen: 2.880 ng
 RT: 26.63 min Scan# 4003
 Delta R.T. -0.01 min
 Lab File: BM018583.D
 Acq: 16 Jan 2019 15:02

Instrument :
 BNA_M
 ClientSampleId :
 CPSB-18(15-20)

Tot Ion:	276	Resp:	184532
Ion Ratio	Lower	Upper	
276	100		
277	25.7	19.0	28.4
138	23.4	18.1	27.1

Manual Integrations
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Sohil
 1/17/2019 12:17:32 PM

