

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070716\
 Data File : BF088798.D
 Acq On : 8 Jul 2016 00:34
 Operator : UM/SJ
 Sample : H3889-09 20X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-9

Manual Integrations

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Quant Time: Jul 08 11:20:23 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 01:56:42 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	88443	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	311472	20.00	ng	-0.01
38) Acenaphthene-d10	9.78	164	136660	20.00	ng	0.00
63) Phenanthrene-d10	11.27	188	203692	20.00	ng	0.01
75) Chrysene-d12	13.92	240	140136	20.00	ng	0.03
86) Perylene-d12	15.30	264	170703	20.00	ng	0.03

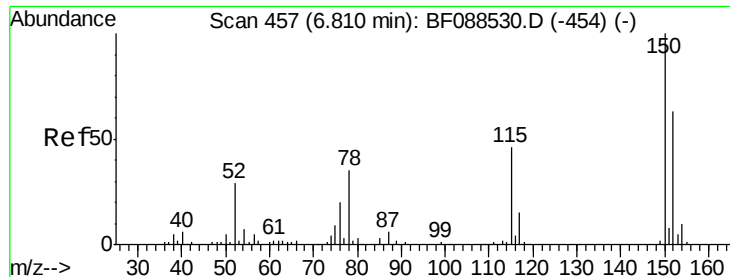
System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	23981	4.06	ng	0.00
7) Phenol-d6	6.36	99	34949	4.58	ng	-0.02
23) Nitrobenzene-d5	7.30	82	19034	3.20	ng	-0.01
41) 2,4,6-Tribromophenol	10.56	330	4614	3.64	ng	-0.01
44) 2-Fluorobiphenyl	9.11	172	35590	4.11	ng	0.00
78) Terphenyl-d14	12.85	244	27490	4.37	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.04	128	249314	16.24	ng	98
37) 2-Methylnaphthalene	8.74	142	87272	8.83	ng	97
45) 1,1'-Biphenyl	9.20	154	33420	2.95	ng	99
51) Acenaphthene	9.82	154	612251	70.66	ng	98
54) Dibenzofuran	9.99	168	420217	37.05	ng	95
57) Fluorene	10.33	166	533833	61.08	ng	98
70) Phenanthrene	11.31	178	3971710m	356.70	ng	
71) Anthracene	11.35	178	1066232m	96.30	ng	
72) Carbazole	11.50	167	756943	72.64	ng	99
74) Fluoranthene	12.50	202	4989867	442.05	ng	97
77) Pyrene	12.73	202	3684557m	310.10	ng	
80) Benzo(a)anthracene	13.91	228	3130205	346.89	ng	95
82) Chrysene	13.95	228	1781299	199.53	ng	96
83) Bis(2-ethylhexyl)phthalate	13.90	149	14039	2.32	ng	# 74
85) Indeno(1,2,3-cd)pyrene	16.66	276	1157508	168.52	ng	# 100
87) Benzo(b)fluoranthene	14.94	252	3149929m	294.16	ng	
88) Benzo(k)fluoranthene	14.96	252	741601m	79.55	ng	
89) Benzo(a)pyrene	15.27	252	1713560	189.00	ng	94
90) Dibenzo(a,h)anthracene	16.66	278	377669	49.88	ng	94
91) Benzo(a,h,i)perylene	17.06	276	983659	125.56	ng	95

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



#1

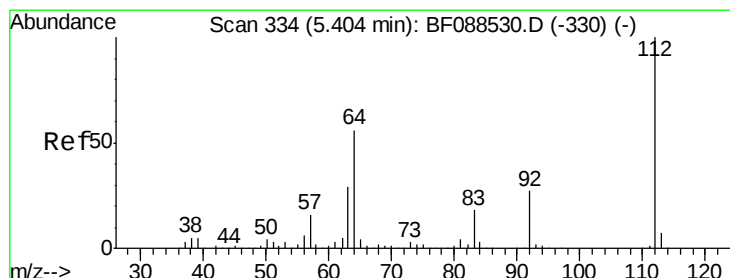
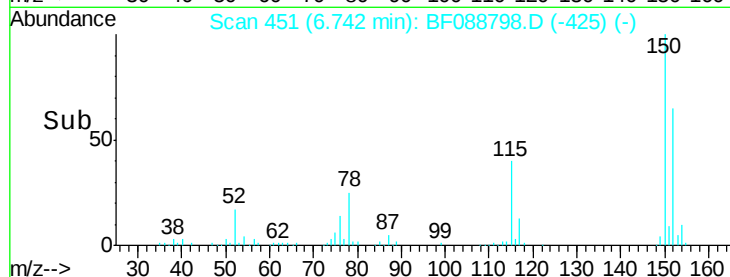
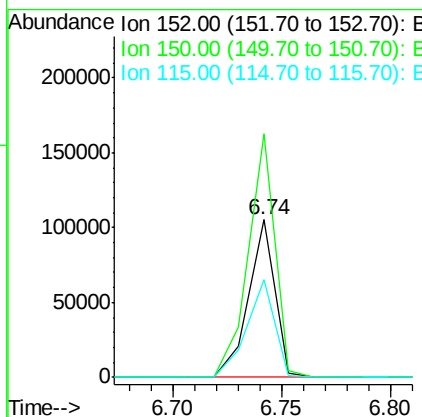
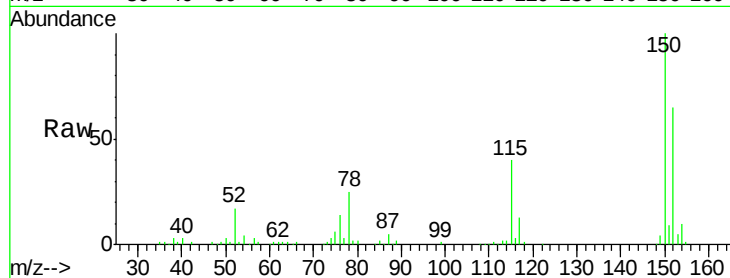
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.74 min Scan# 451
Delta R.T. 0.00 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Instrument :
BNA_F
ClientSampled :
SS-9

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	123.8	185.6
115	62.2	39.6	59.4

Manual Integrations

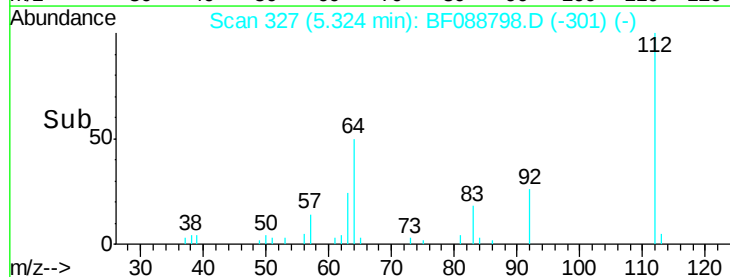
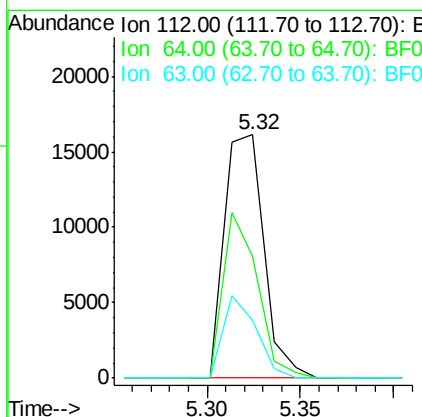
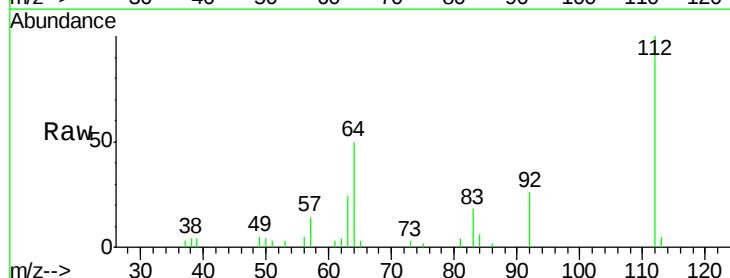
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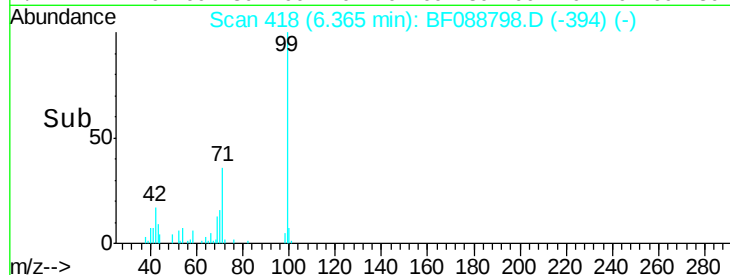
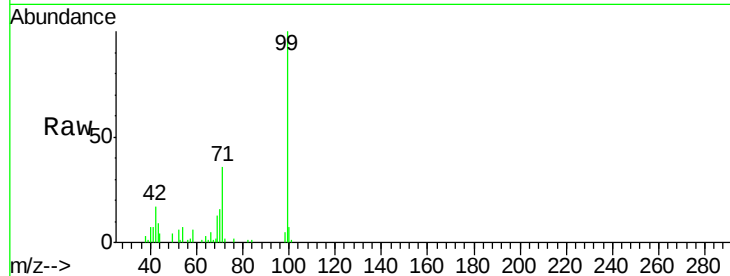


#5

2-Fluorophenol
Concen: 4.06 ng
RT: 5.32 min Scan# 327
Delta R.T. 0.00 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.2	42.2	63.2
63	24.1	21.8	32.8





#7

Phenol-d6

Concen: 4.58 ng

RT: 6.36 min Scan# 418

Delta R.T. -0.02 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Tot Ion:	99	Resp:	34949
Ion	Ratio	Lower	Upper
99	100		
42	17.0	12.2	18.2
71	35.8	23.4	35.0

Instrument :

BNA_F

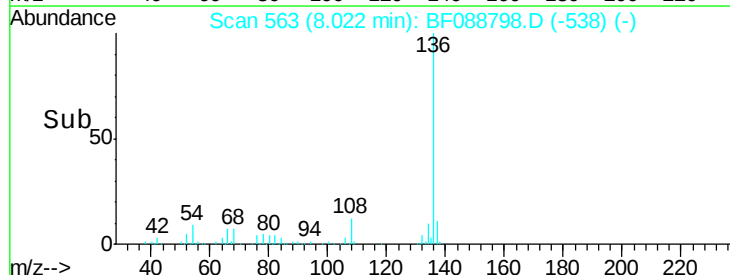
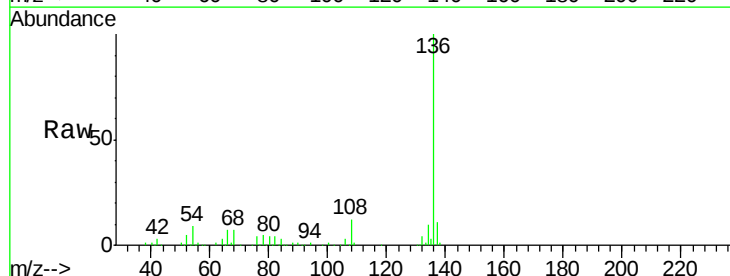
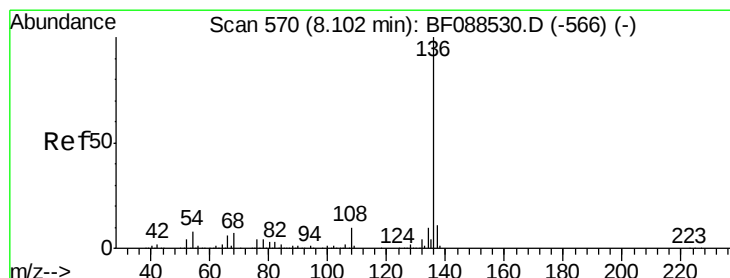
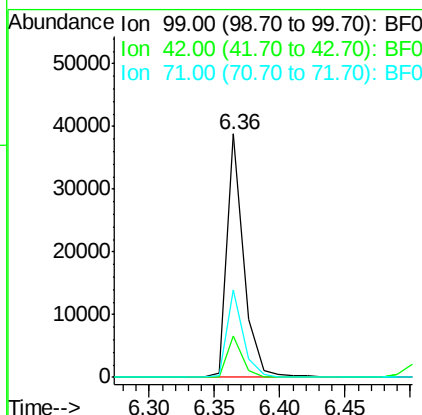
ClientSampled :

SS-9

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.00 ng

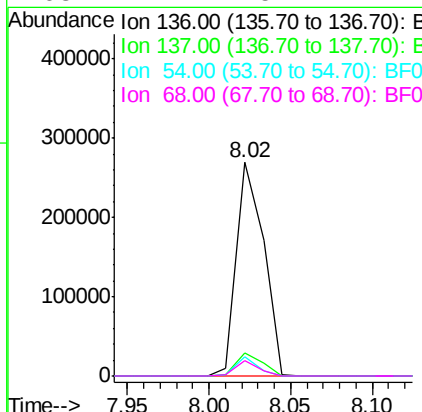
RT: 8.02 min Scan# 563

Delta R.T. -0.01 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Tgt Ion:	136	Resp:	311472
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	9.2	6.6	10.0
68	7.2	5.1	7.7





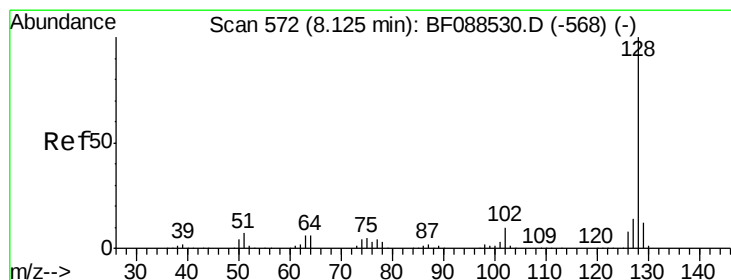
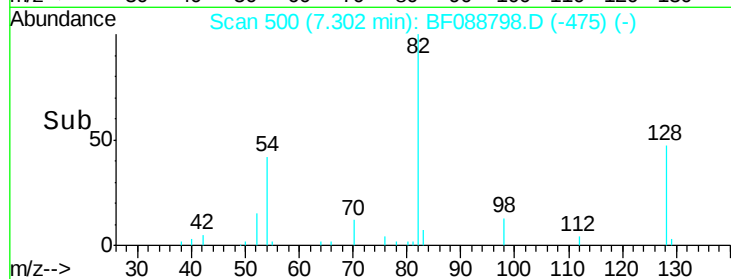
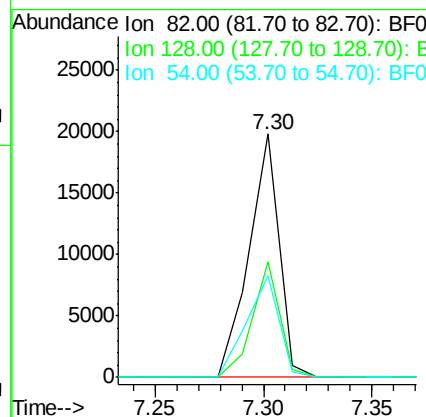
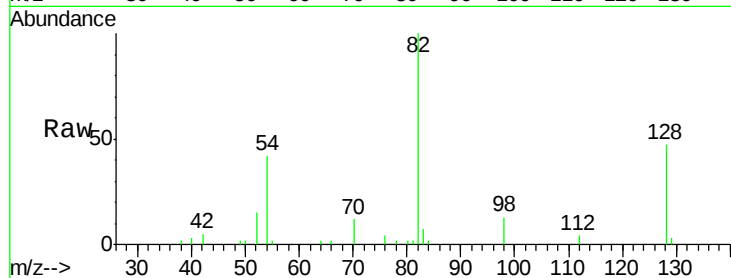
#23
 Nitrobenzene-d5
 Concen: 3.20 ng
 RT: 7.30 min Scan# 500
 Delta R.T. -0.01 min
 Lab File: BF088798.D
 Acq: 8 Jul 2016 00:34

Instrument :
 BNA_F
 ClientSampled :
 SS-9

Tot Ion	82	Resp	19034
Ion Ratio	100	Lower	Upper
82	100		
128	47.3	35.9	53.9
54	41.8	40.9	61.3

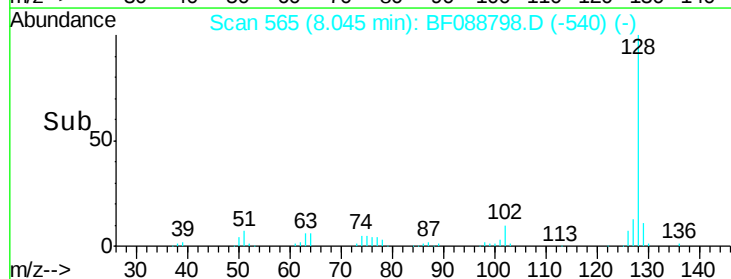
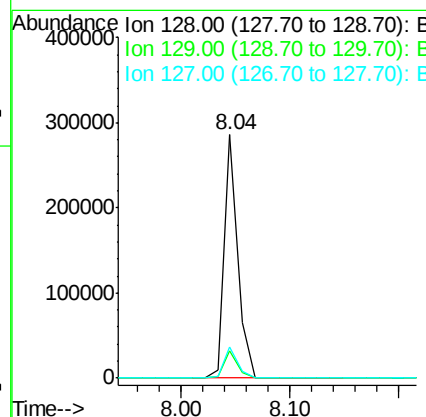
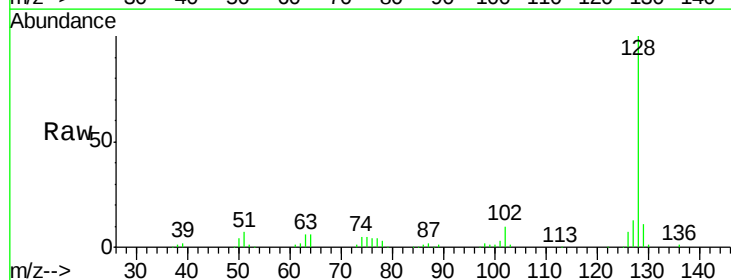
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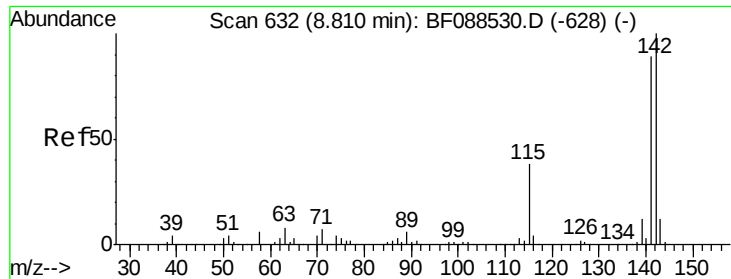
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#31
 Naphthalene
 Concen: 16.24 ng
 RT: 8.04 min Scan# 565
 Delta R.T. -0.01 min
 Lab File: BF088798.D
 Acq: 8 Jul 2016 00:34

Tgt Ion	128	Resp	249314
Ion Ratio	100	Lower	Upper
128	100		
129	11.2	9.4	14.2
127	13.0	10.9	16.3





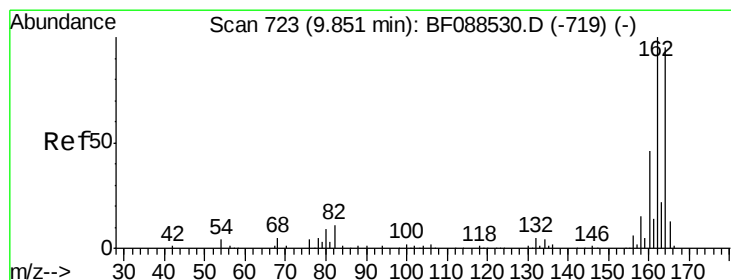
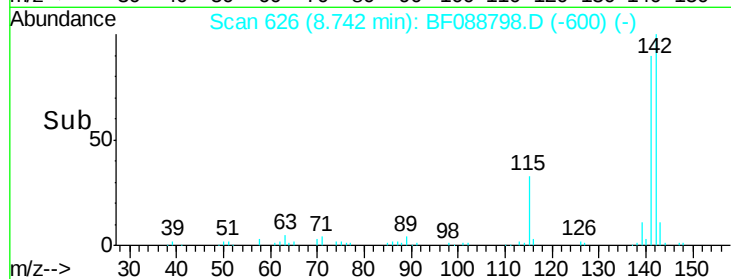
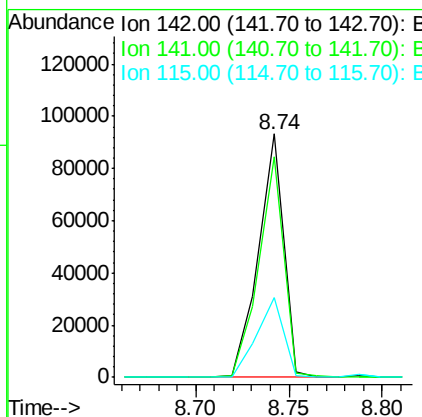
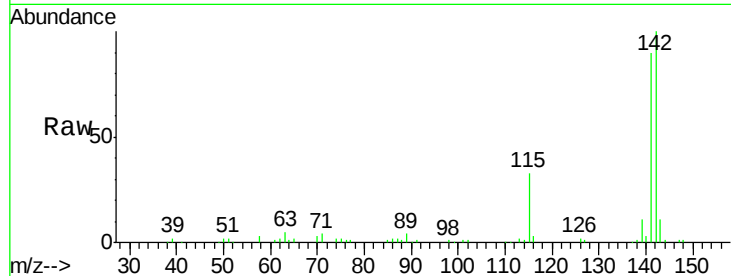
#37
2-Methylnaphthalene
Concen: 8.83 ng
RT: 8.74 min Scan# 626
Delta R.T. 0.00 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Instrument :
BNA_F
ClientSampleId :
SS-9

Tot Ion:142 Resp: 87272
Ion Ratio Lower Upper
142 100
141 90.4 71.0 106.6
115 32.9 22.6 33.8

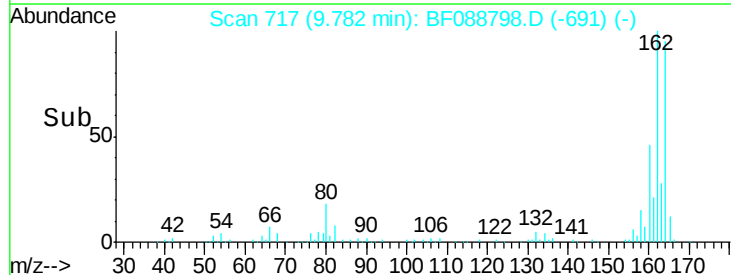
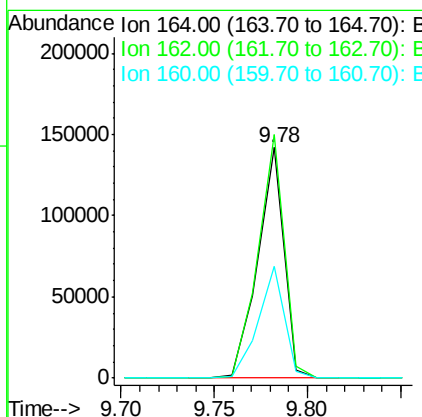
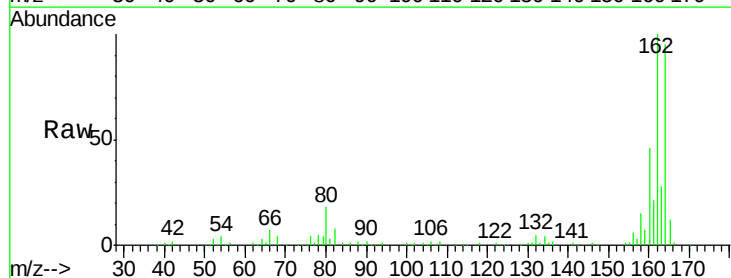
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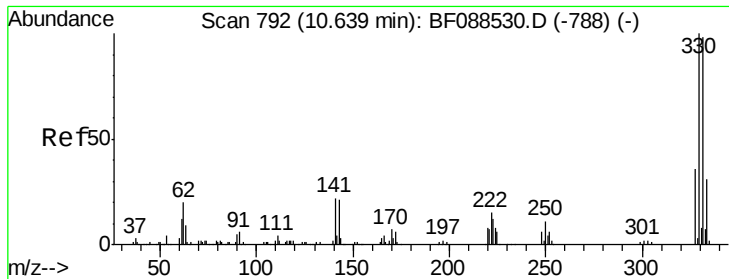
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.78 min Scan# 717
Delta R.T. 0.00 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Tgt Ion:164 Resp: 136660
Ion Ratio Lower Upper
164 100
162 105.5 85.4 128.2
160 48.5 39.5 59.3





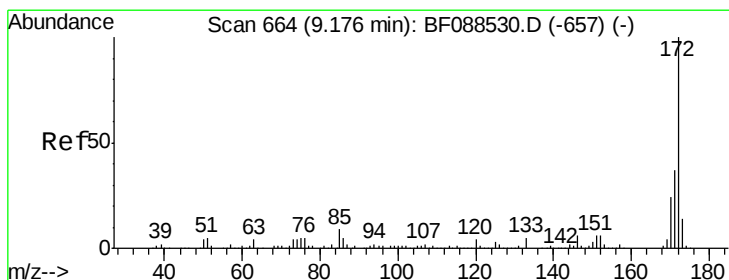
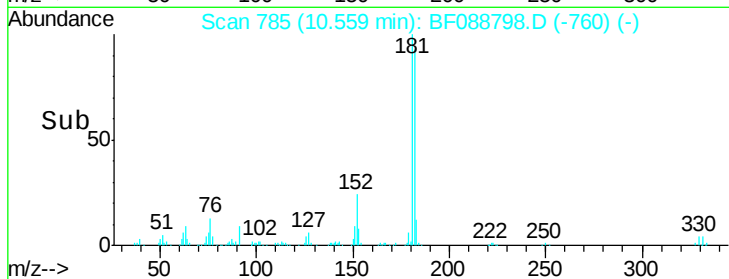
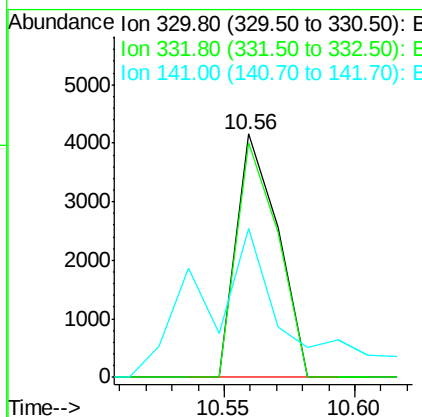
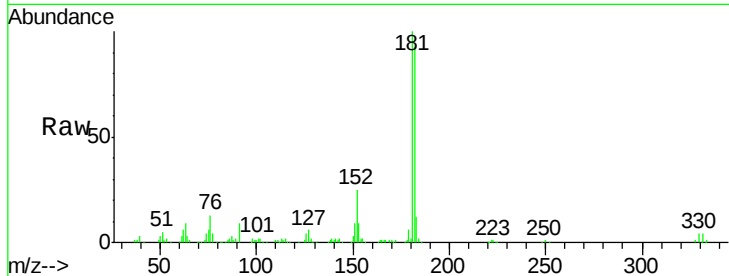
#41
 2,4,6-Tribromophenol
 Concen: 3.64 ng
 RT: 10.56 min Scan# 785
 Delta R.T. -0.01 min
 Lab File: BF088798.D
 Acq: 8 Jul 2016 00:34

Instrument :
 BNA_F
 ClientSampled :
 SS-9

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.5	0.0	0.0#
141	125.1	0.0	0.0#

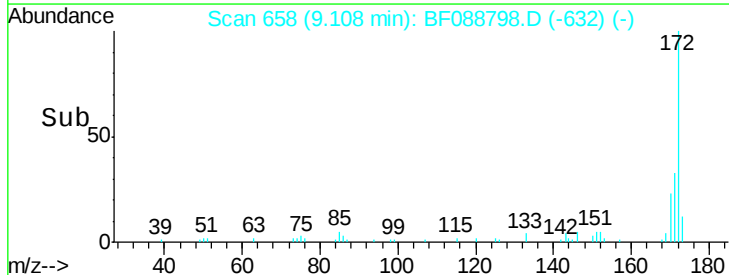
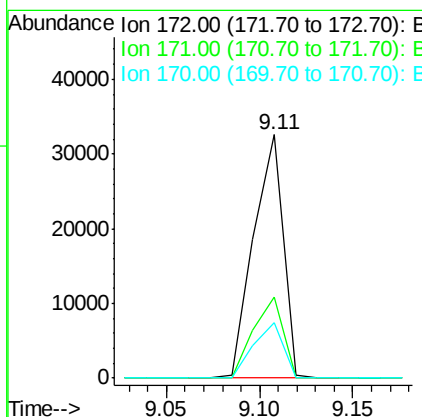
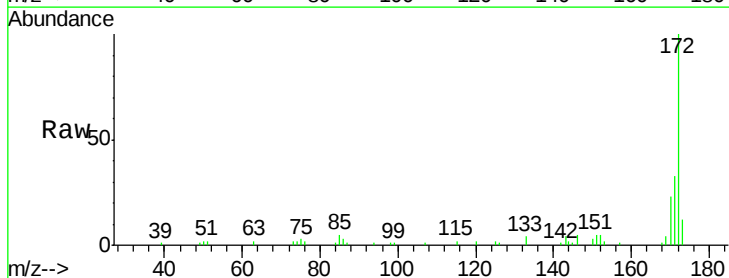
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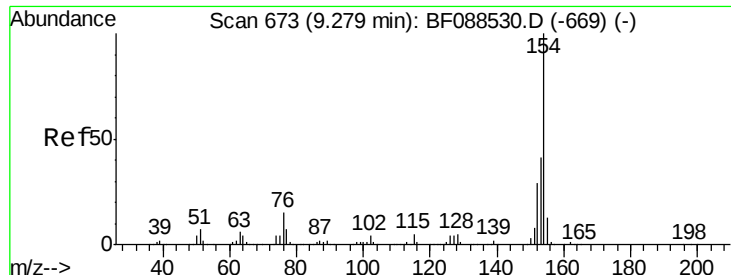
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#44
 2-Fluorobiphenyl
 Concen: 4.11 ng
 RT: 9.11 min Scan# 658
 Delta R.T. 0.00 min
 Lab File: BF088798.D
 Acq: 8 Jul 2016 00:34

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.3	28.6	43.0
170	22.8	19.2	28.8





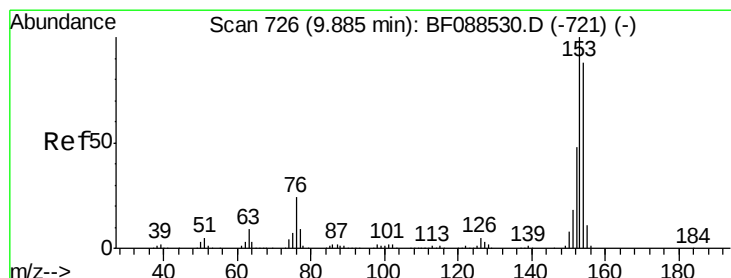
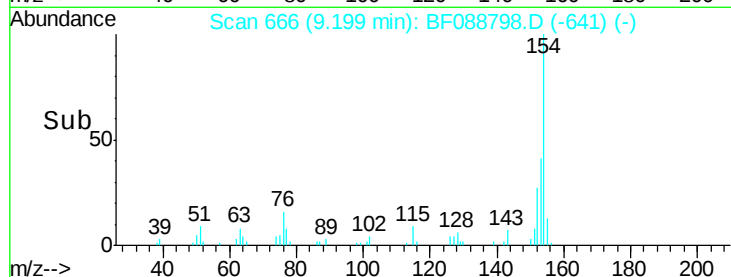
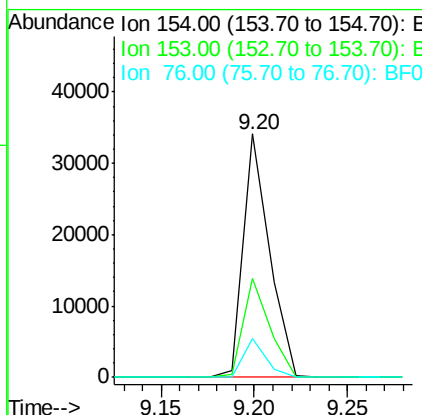
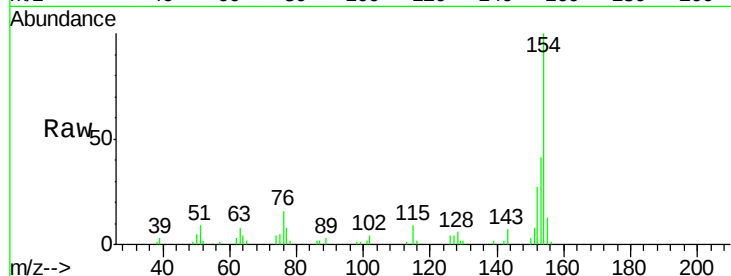
#45
 1,1'-Biphenyl
 Concen: 2.95 ng
 RT: 9.20 min Scan# 666
 Delta R.T. -0.01 min
 Lab File: BF088798.D
 Acq: 8 Jul 2016 00:34

Instrument :
 BNA_F
 ClientSampleId :
 SS-9

Tot Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.6	60.6
76	16.0	0.0	35.1

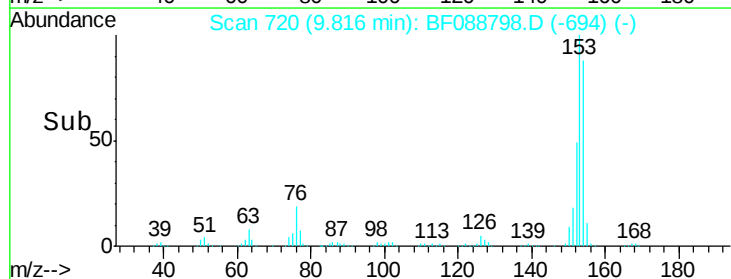
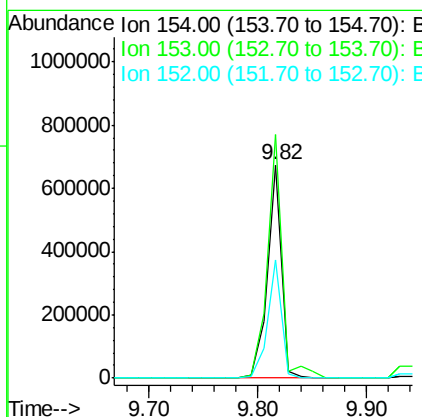
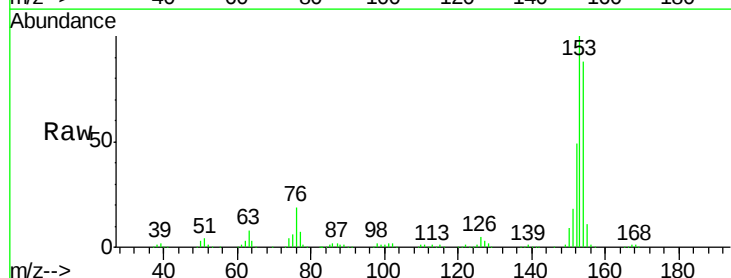
Manual Integrations

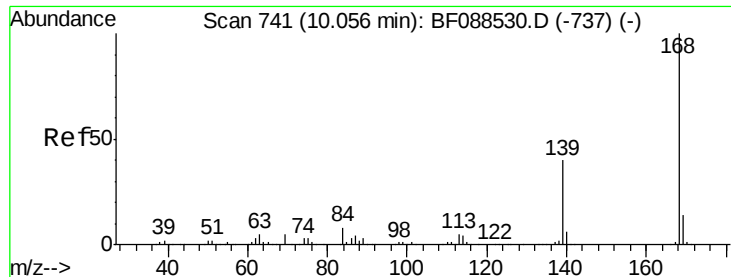
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#51
 Acenaphthene
 Concen: 70.66 ng
 RT: 9.82 min Scan# 720
 Delta R.T. 0.00 min
 Lab File: BF088798.D
 Acq: 8 Jul 2016 00:34

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.0	89.5	134.3
152	55.4	42.7	64.1





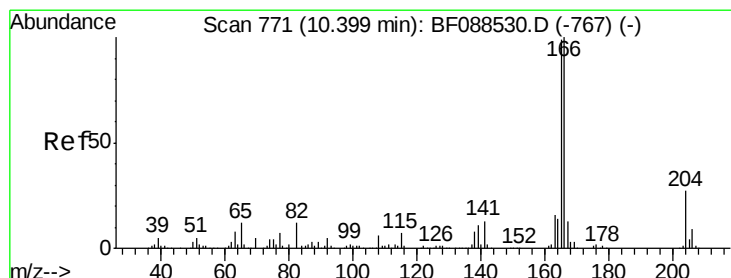
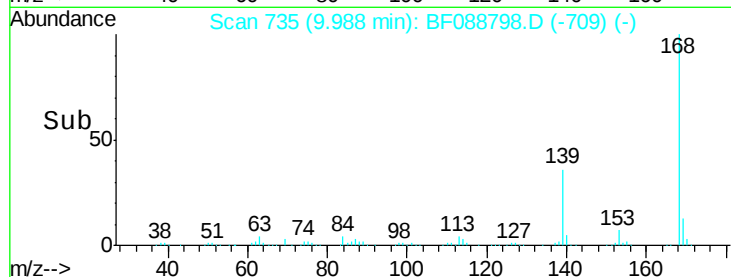
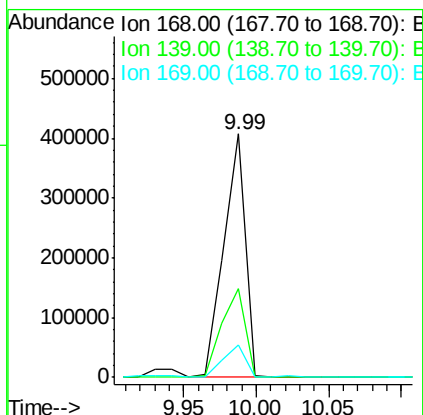
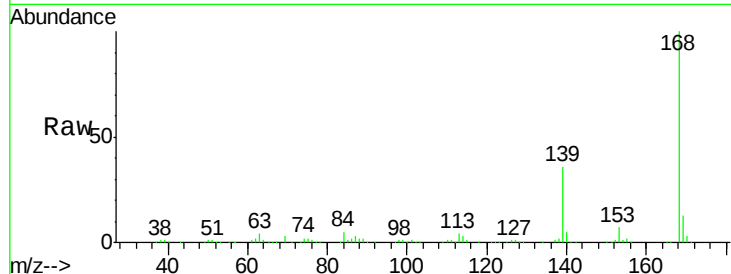
#54
Dibenzenofuran
Concen: 37.05 ng
RT: 9.99 min Scan# 735
Delta R.T. 0.00 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Instrument :
BNA_F
ClientSampleId :
SS-9

Tot Ion:168 Resp: 420217
Ion Ratio Lower Upper
168 100
139 36.4 26.4 39.6
169 13.3 10.4 15.6

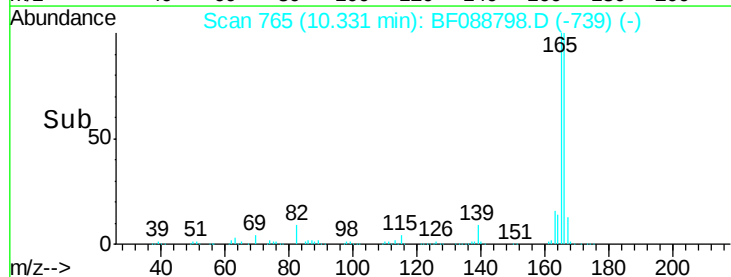
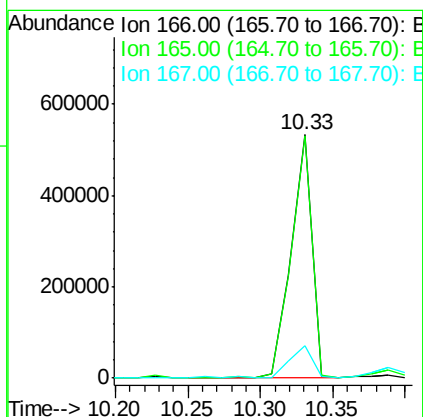
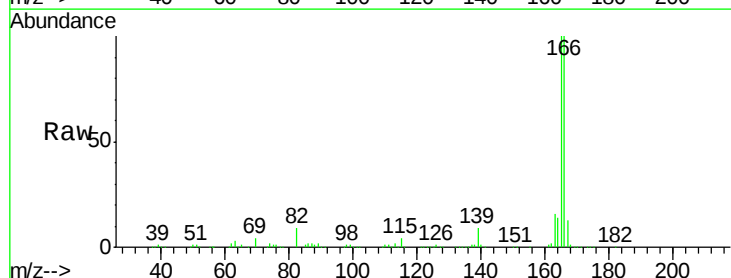
Manual Integrations

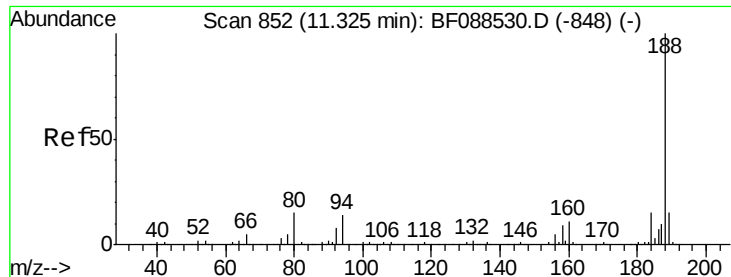
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#57
Fluorene
Concen: 61.08 ng
RT: 10.33 min Scan# 765
Delta R.T. 0.00 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Tgt Ion:166 Resp: 533833
Ion Ratio Lower Upper
166 100
165 99.6 77.8 116.8
167 13.3 11.2 16.8





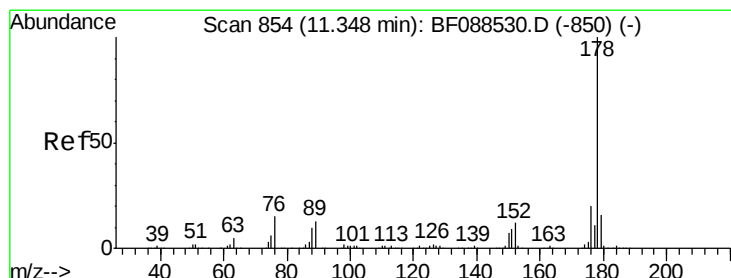
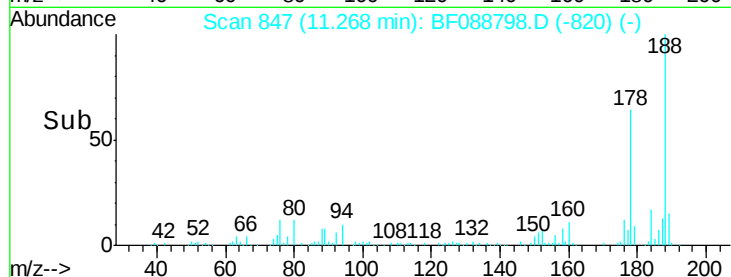
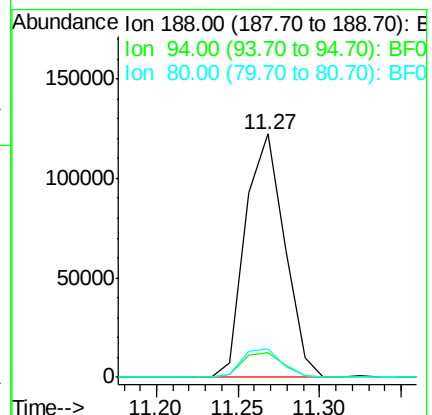
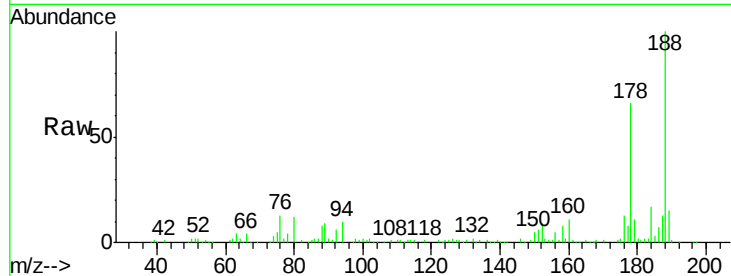
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.27 min Scan# 847
Delta R.T. 0.01 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Instrument :
BNA_F
ClientSampleId :
SS-9

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.1	9.0	13.6
80	11.6	10.0	15.0

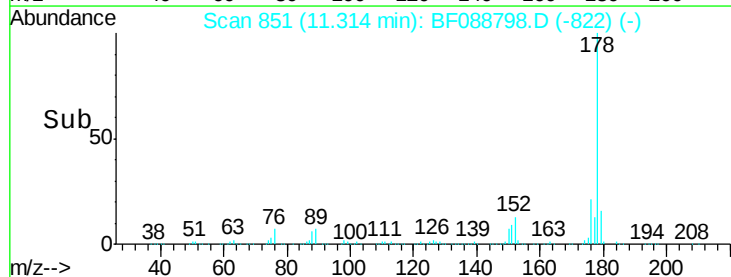
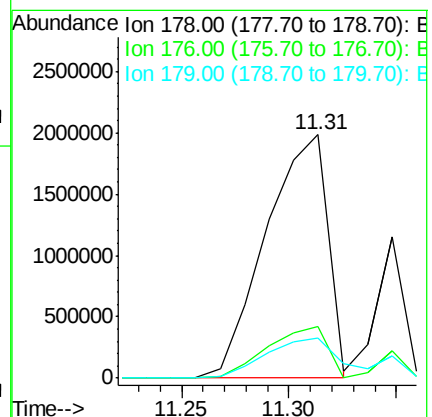
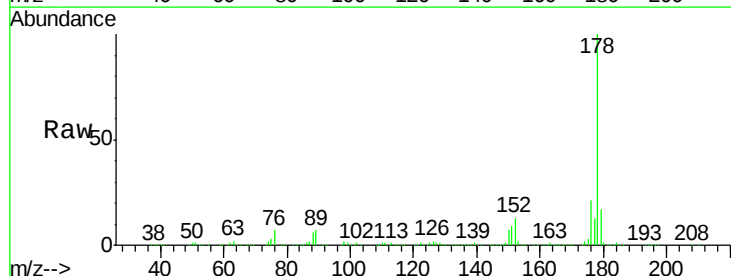
Manual Integrations

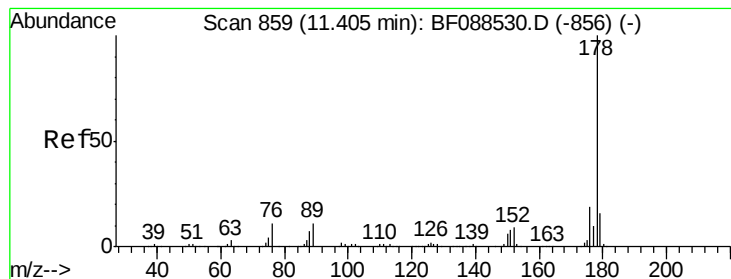
sohil
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#70
Phenanthrene
Concen: 356.70 ng m
RT: 11.31 min Scan# 851
Delta R.T. 0.03 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	21.2	15.8	23.6
179	16.6	13.0	19.4





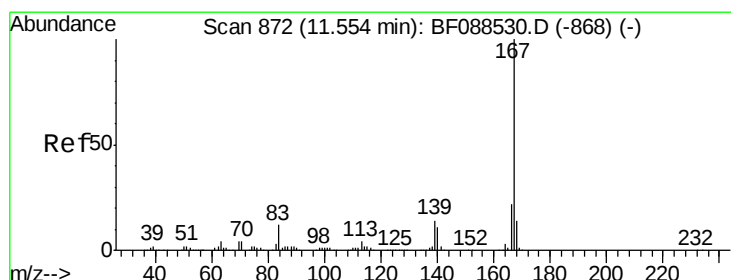
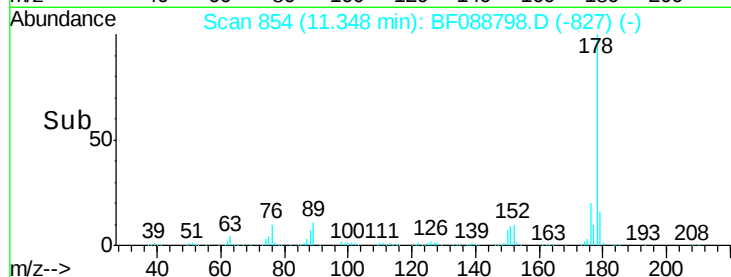
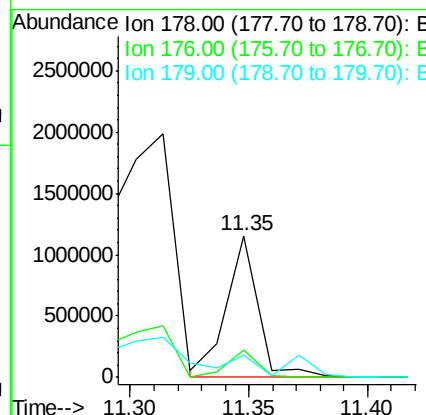
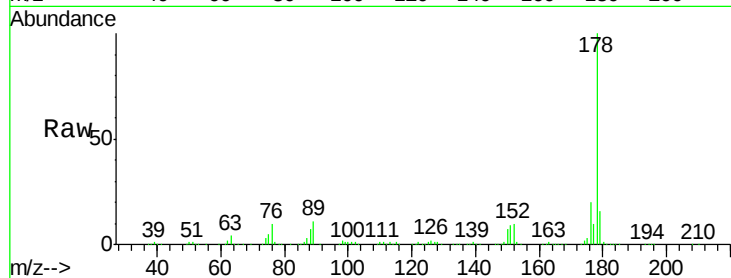
#71
 Anthracene
 Concen: 96.30 ng/mL
 RT: 11.35 min Scan# 854
 Delta R.T. 0.01 min
 Lab File: BF088798.D
 Acq: 8 Jul 2016 00:34

Instrument :
 BNA_F
 ClientSampled :
 SS-9

Tot Ion:178 Resp: 1066232
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.6 23.4
 179 16.1 12.8 19.2

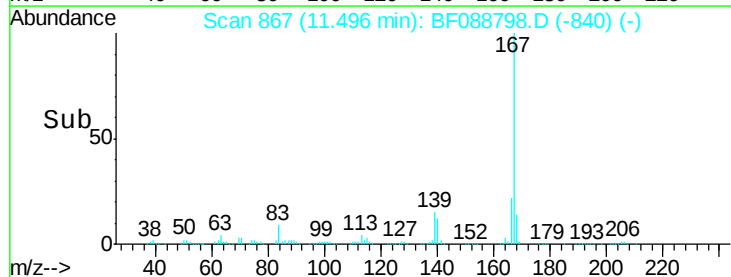
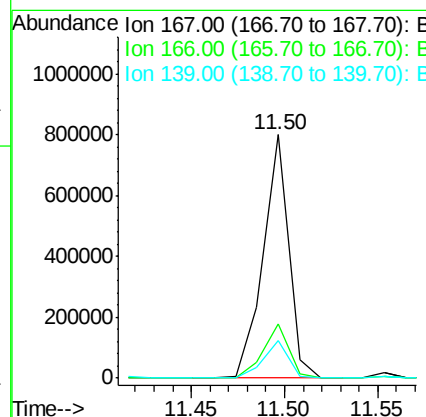
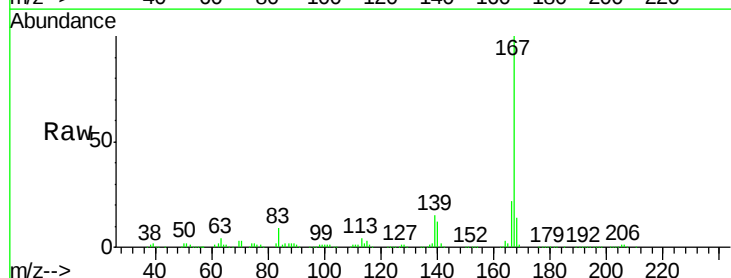
Manual Integrations

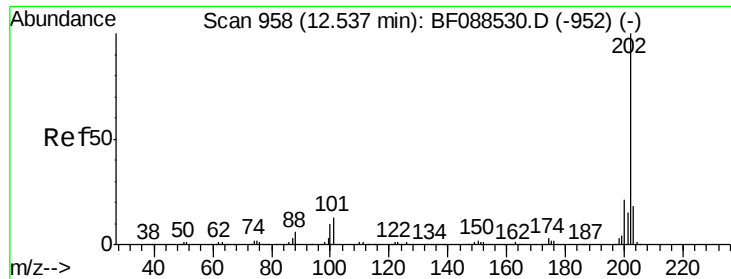
sohil
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#72
 Carbazole
 Concen: 72.64 ng/mL
 RT: 11.50 min Scan# 867
 Delta R.T. 0.01 min
 Lab File: BF088798.D
 Acq: 8 Jul 2016 00:34

Tgt Ion:167 Resp: 756943
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.8 26.6
 139 15.2 11.2 16.8





#74

Fluoranthene

Concen: 442.05 ng

RT: 12.50 min Scan# 955

Delta R.T. 0.03 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Instrument :

BNA_F

ClientSampled :

SS-9

Tot Ion:202 Resp: 4989867

Ion Ratio Lower Upper

202 100

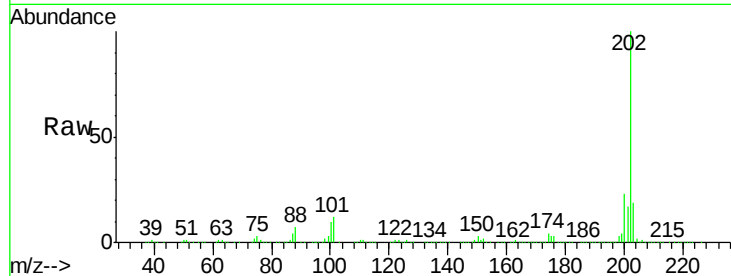
101 12.2 0.0 33.1

203 19.4 0.0 38.1

Manual Integrations

sohil

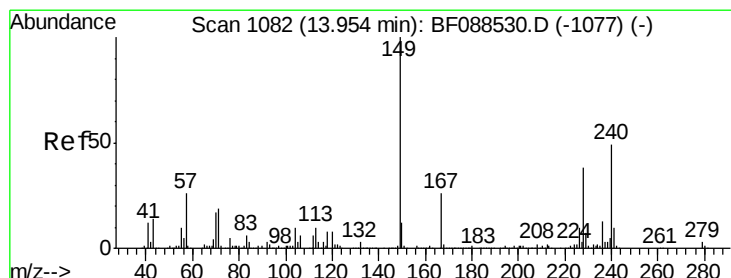
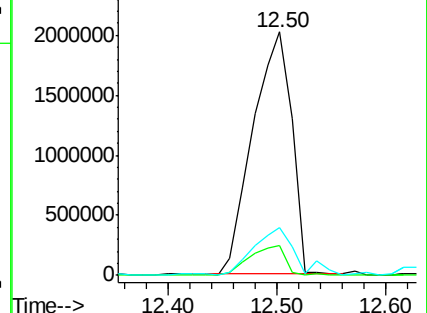
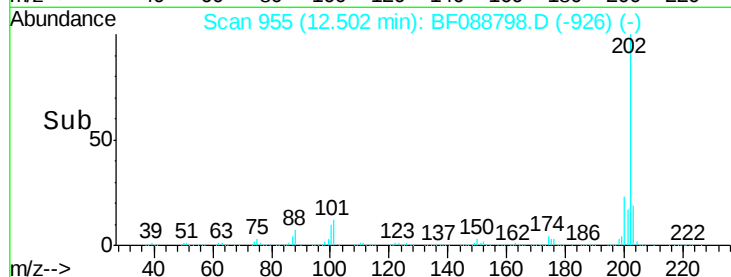
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 1079

Delta R.T. 0.03 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

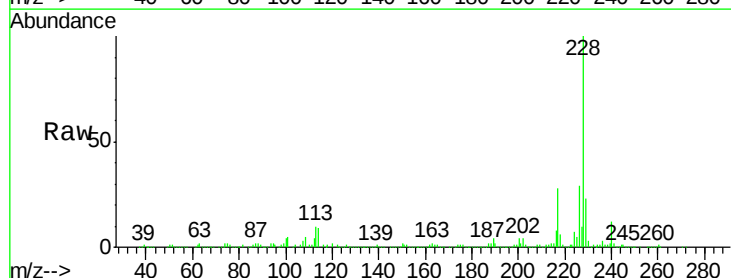
Tgt Ion:240 Resp: 140136

Ion Ratio Lower Upper

240 100

120 13.0 6.8 10.2#

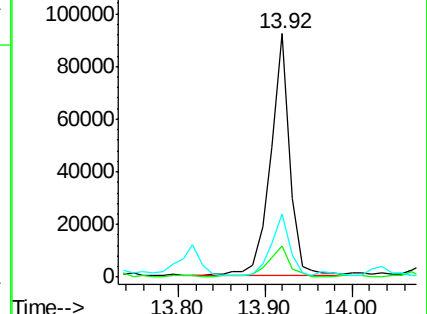
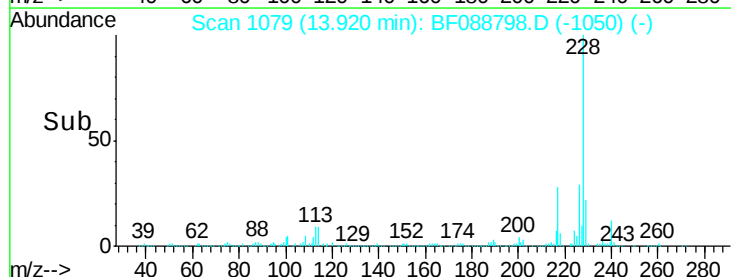
236 26.0 20.2 30.2

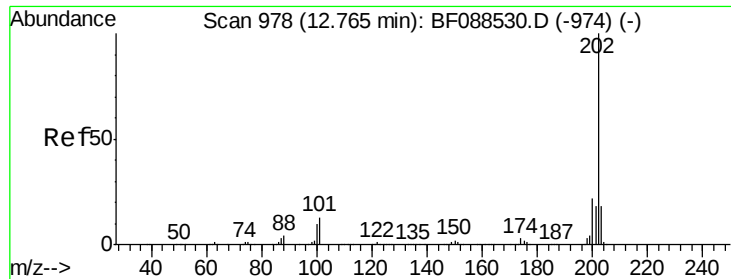


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 310.10 ng/mL

RT: 12.73 min Scan# 975

Delta R.T. 0.03 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Instrument :

BNA_F

ClientSampled :

SS-9

Tot Ion:202 Resp: 3684557

Ion Ratio Lower Upper

202 100

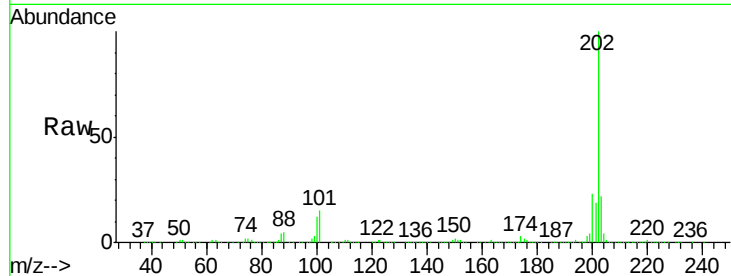
200 23.2 17.4 26.2

203 22.2 14.5 21.7#

Manual Integrations

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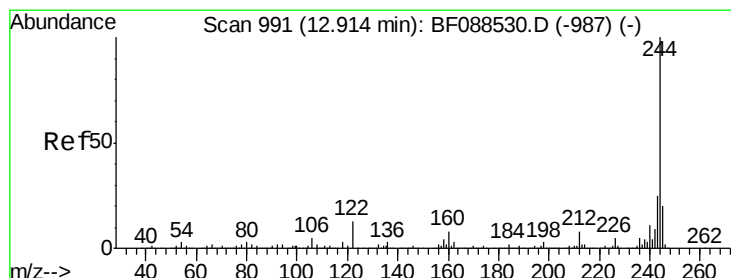
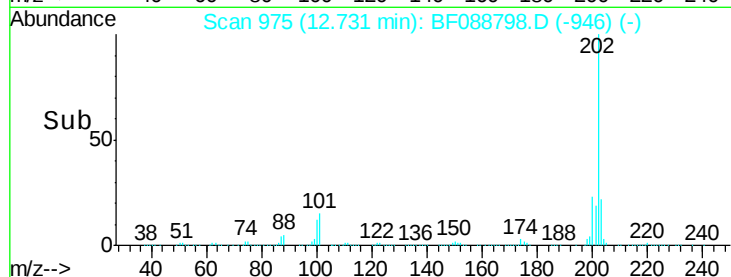
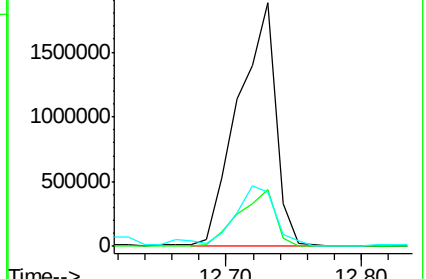
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 4.37 ng

RT: 12.85 min Scan# 985

Delta R.T. 0.00 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

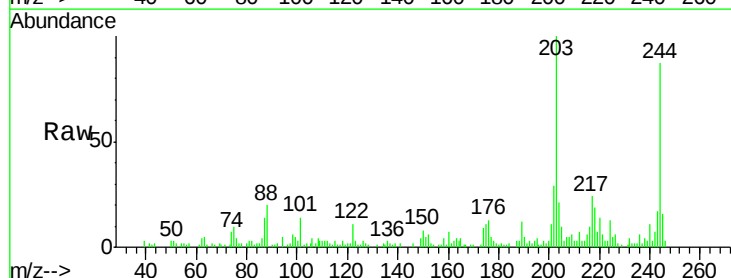
Tgt Ion:244 Resp: 27490

Ion Ratio Lower Upper

244 100

212 8.4 6.0 9.0

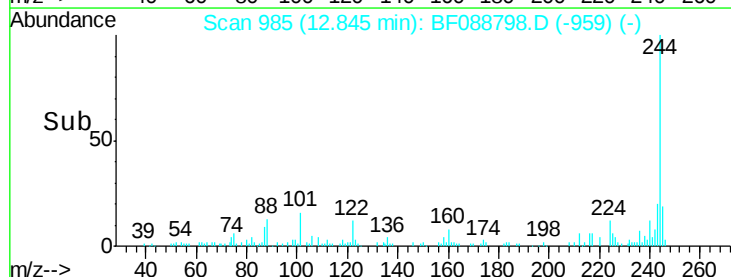
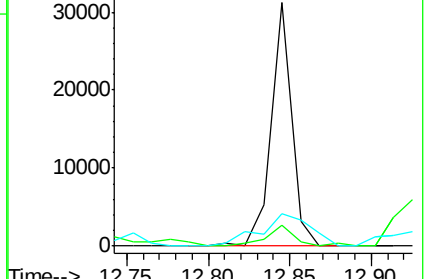
122 13.1 11.2 16.8

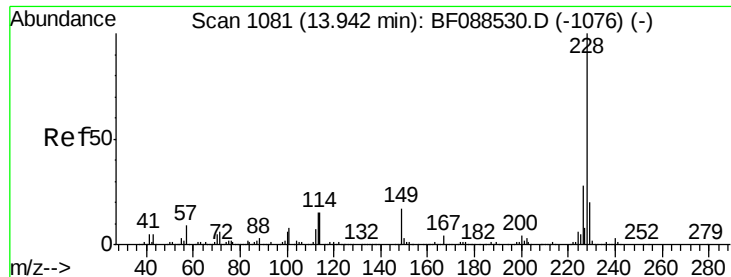


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 346.89 ng

RT: 13.91 min Scan# 1078

Delta R.T. 0.03 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Instrument :

BNA_F

ClientSampleId :

SS-9

Tot Ion:228 Resp: 3130205

Ion Ratio Lower Upper

228 100

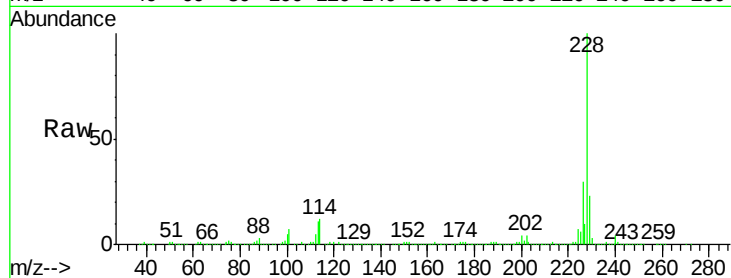
226 29.8 22.3 33.5

229 22.8 16.0 24.0

Manual Integrations

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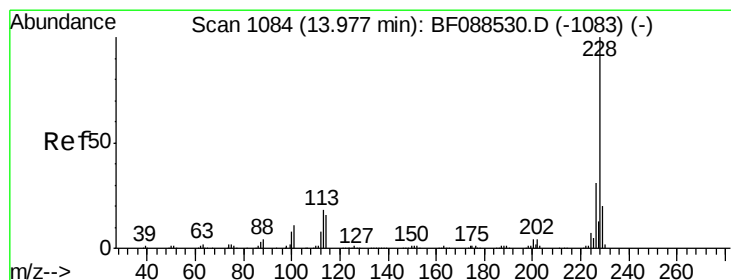
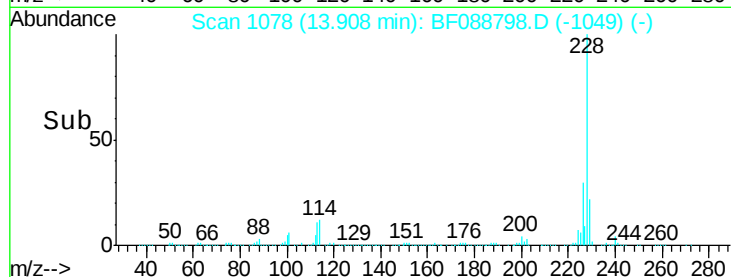
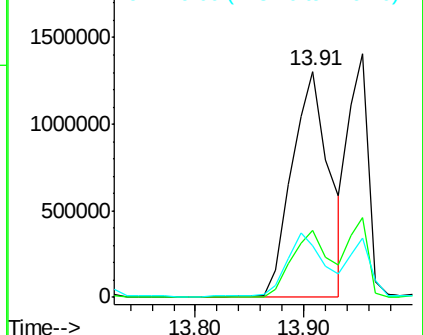
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 199.53 ng

RT: 13.95 min Scan# 1082

Delta R.T. 0.05 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Tgt Ion:228 Resp: 1781299

Ion Ratio Lower Upper

228 100

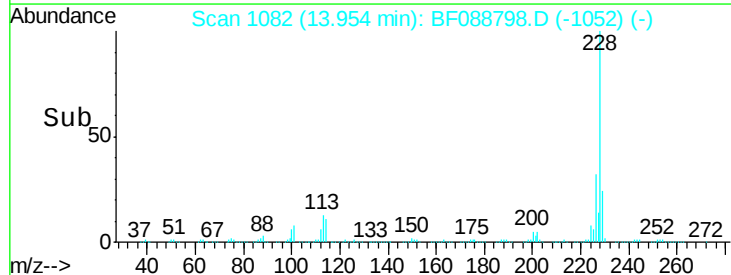
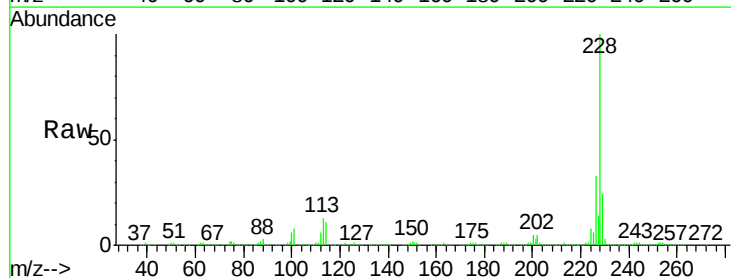
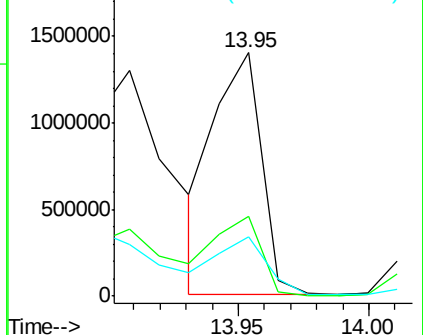
226 32.5 25.4 38.2

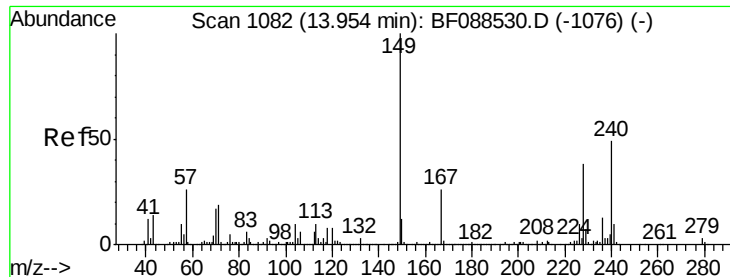
229 24.4 16.3 24.5

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.32 ng

RT: 13.90 min Scan# 1077

Delta R.T. 0.01 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Instrument :

BNA_F

ClientSampleId :

SS-9

Tot Ion:149 Resp: 14039

Ion Ratio Lower Upper

149 100

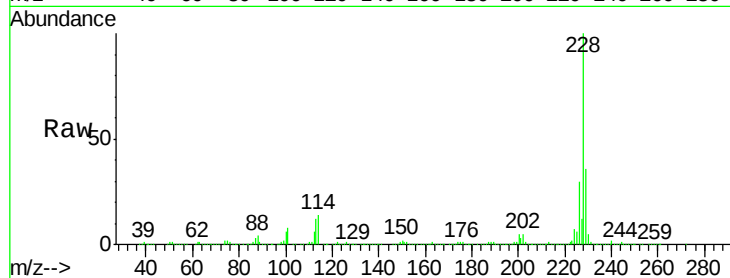
167 11.4 20.5 30.7#

279 0.0 2.0 3.0#

Manual Integrations

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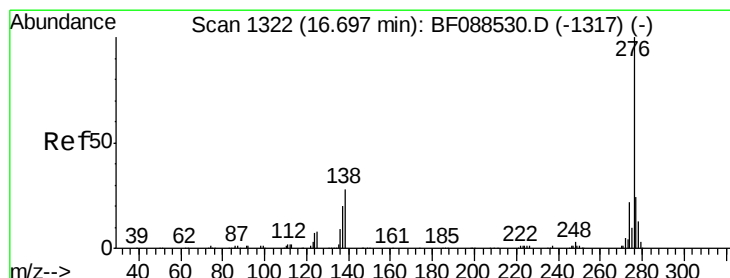
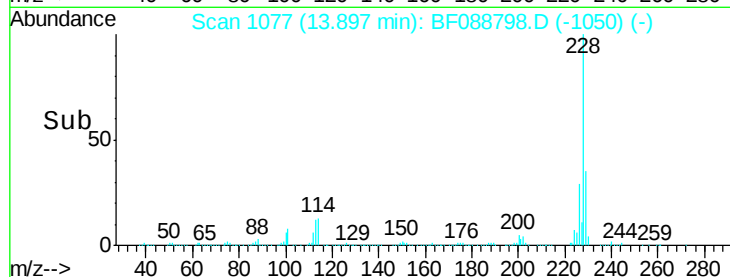
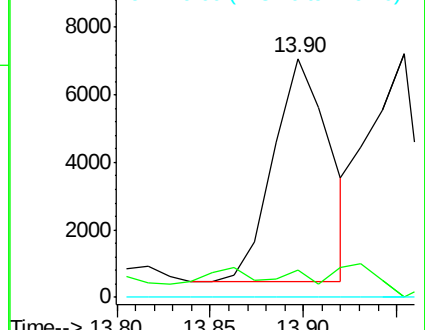
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 168.52 ng

RT: 16.66 min Scan# 1319

Delta R.T. 0.08 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

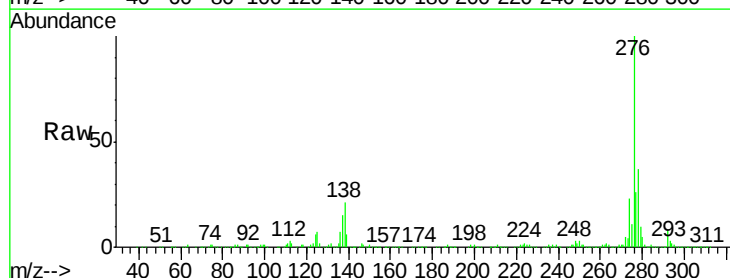
Tgt Ion:276 Resp: 1157508

Ion Ratio Lower Upper

276 100

138 25.9 0.0 0.0#

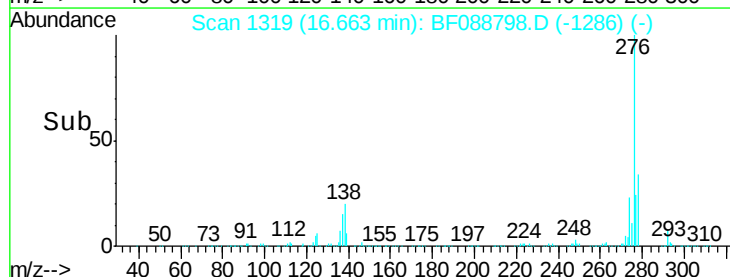
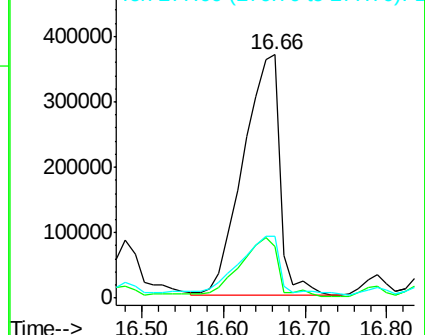
277 28.3 0.0 0.0#

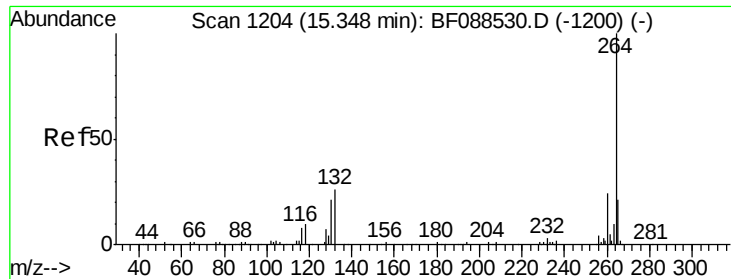


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





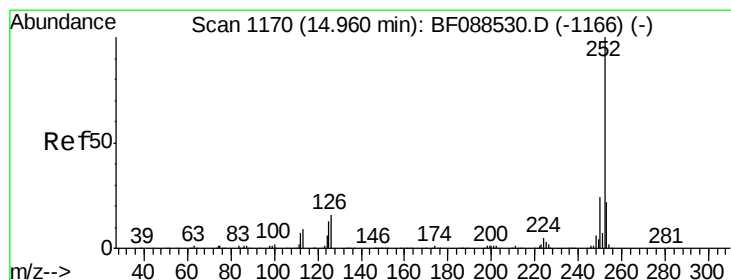
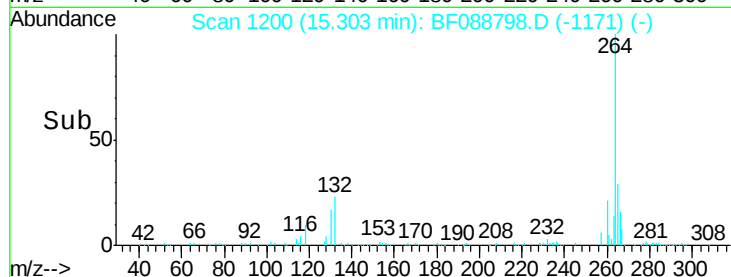
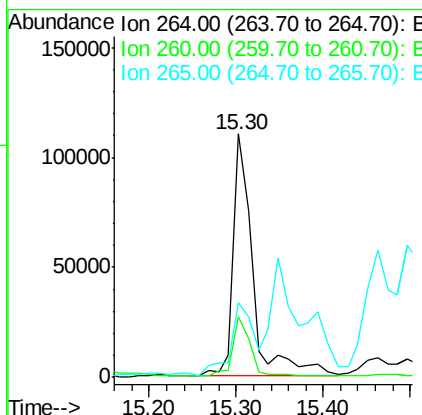
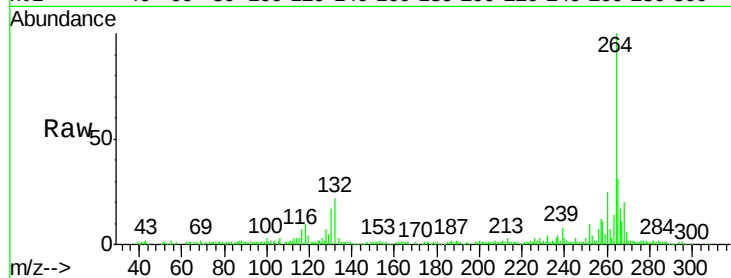
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.30 min Scan# 1200
Delta R.T. 0.03 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Instrument :
BNA_F
ClientSampled :
SS-9

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.2	28.8
265	30.5	16.9	25.3

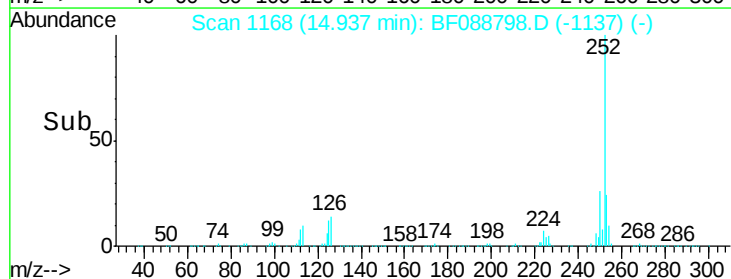
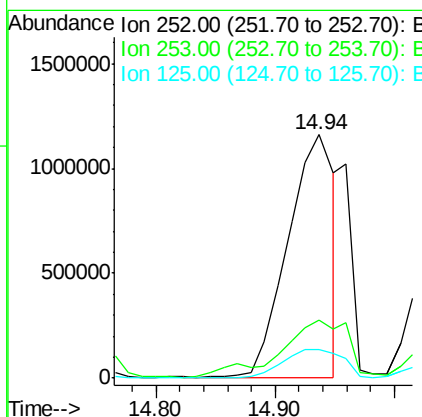
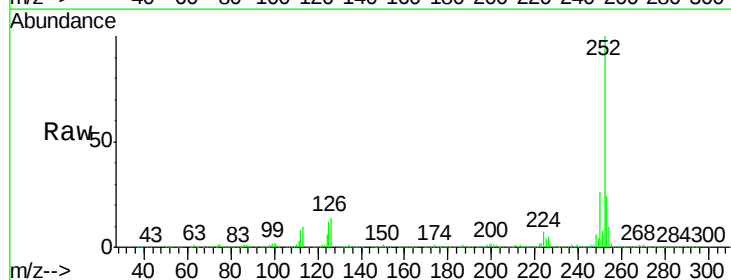
Manual Integrations

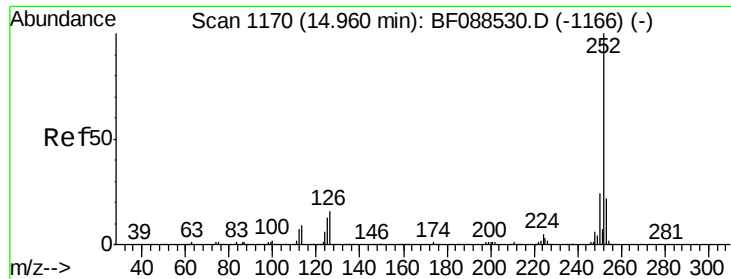
sohil
7/8/2016 6:53:44 PM



#87
Benzo(b)fluoranthene
Concen: 294.16 ng m
RT: 14.94 min Scan# 1168
Delta R.T. 0.06 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.4	26.2
125	11.9	7.1	10.7





#88

Benzo(k)fluoranthene

Concen: 79.55 ng/mL

RT: 14.96 min Scan# 1170

Delta R.T. 0.05 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Instrument :

BNA_F

ClientSampleId :

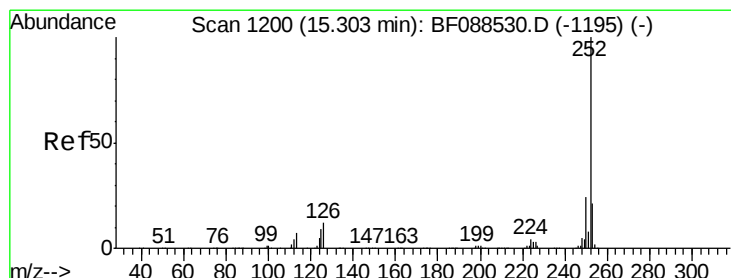
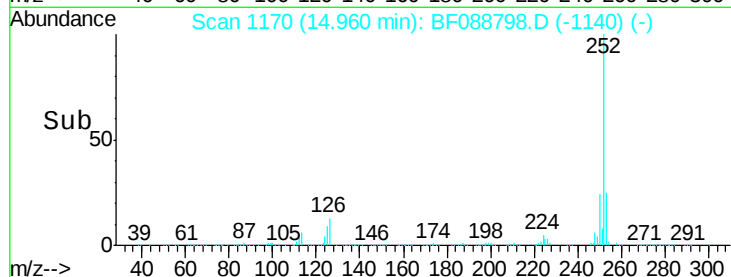
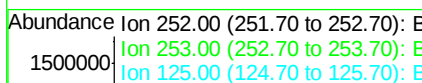
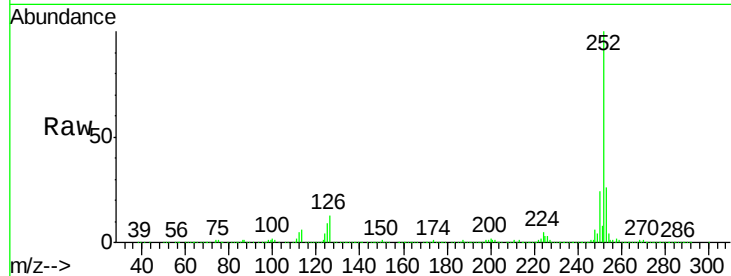
SS-9

Tot Ion:	252	Resp:	741601
Ion Ratio	Lower	Upper	
252	100		
253	26.0	18.0	27.0
125	9.1	11.2	16.8

Manual Integrations

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#89

Benzo(a)pyrene

Concen: 189.00 ng/mL

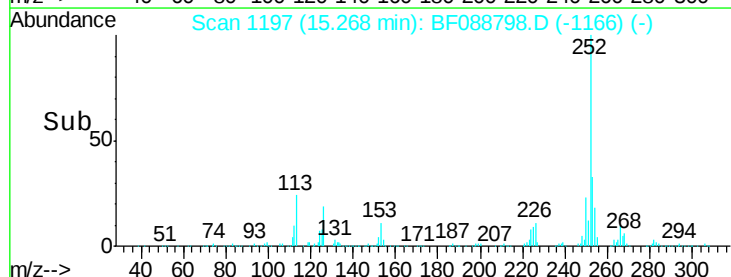
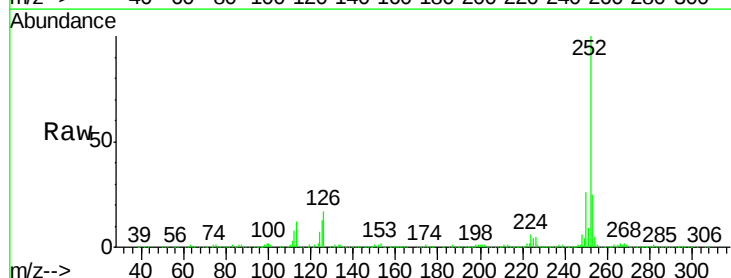
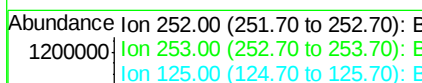
RT: 15.27 min Scan# 1197

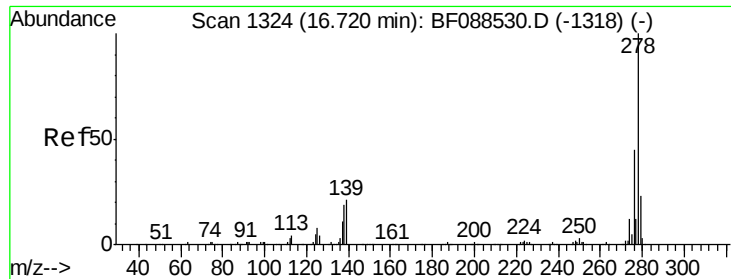
Delta R.T. 0.06 min

Lab File: BF088798.D

Acq: 8 Jul 2016 00:34

Tgt Ion:	252	Resp:	1713560
Ion Ratio	Lower	Upper	
252	100		
253	25.4	17.9	26.9
125	13.4	12.5	18.7





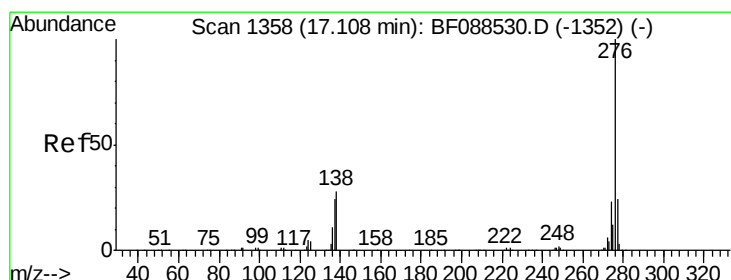
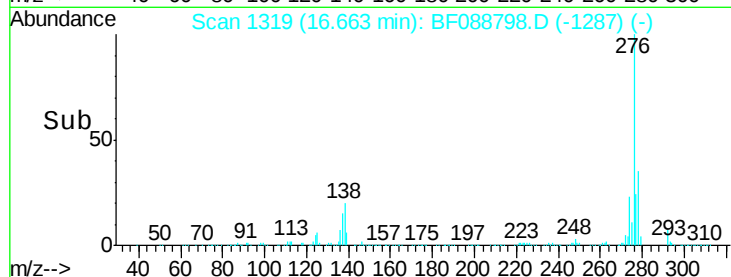
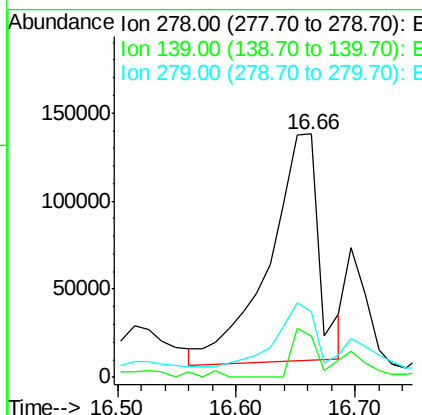
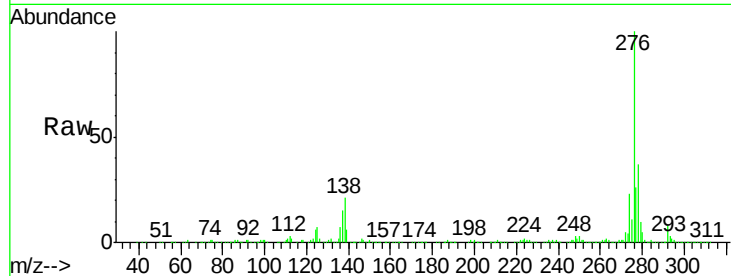
#90
Dibenzo(a,h)anthracene
Concen: 49.88 ng
RT: 16.66 min Scan# 1319
Delta R.T. 0.07 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Instrument :
BNA_F
ClientSampleId :
SS-9

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.8	15.7	23.5
279	27.0	19.4	29.2

Manual Integrations

sohil
7/8/2016 6:53:44 PM



#91
Benzo(g,h,i)perylene
Concen: 125.56 ng
RT: 17.06 min Scan# 1354
Delta R.T. 0.08 min
Lab File: BF088798.D
Acq: 8 Jul 2016 00:34

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.9	28.3
138	23.6	21.4	32.2

