

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
 Data File : BF096884.D
 Acq On : 19 Jul 2017 21:52
 Operator : SJ/JU
 Sample : I4280-07
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-071817-C

Manual Integrations
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 7/20/2017 3:05:05 PM

Quant Time: Jul 20 05:16:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	104792	20.00	ng	-0.01
21) Naphthalene-d8	7.87	136	405714	20.00	ng	-0.02
38) Acenaphthene-d10	9.62	164	161072	20.00	ng	-0.02
63) Phenanthrene-d10	11.09	188	246215	20.00	ng	-0.01
75) Chrysene-d12	13.73	240	187447	20.00	ng	0.00
86) Perylene-d12	15.10	264	133240	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.19	112	554605	79.58	ng	0.00
7) Phenol-d6	6.24	99	670576	80.18	ng	-0.01
23) Nitrobenzene-d5	7.15	82	383758	58.59	ng	-0.02
41) 2,4,6-Tribromophenol	10.40	330	112875	82.10	ng	-0.02
44) 2-Fluorobiphenyl	8.95	172	671497	65.87	ng	-0.01
78) Terphenyl-d14	12.68	244	448445	41.49	ng	-0.01

Target Compounds

						Qvalue
10) Phenol	6.25	94	30431	3.219	ng	95
31) Naphthalene	7.89	128	176465	9.182	ng	100
37) 2-Methylnaphthalene	8.58	142	102838	8.393	ng	94
48) Acenaphthylene	9.47	152	94693	5.843	ng	97
49) Dimethylphthalate	9.35	163	95165	7.847	ng	98
51) Acenaphthene	9.65	154	51507	5.380	ng	98
54) Dibenzofuran	9.82	168	48989	3.651	ng	# 95
57) Fluorene	10.16	166	112242	11.321	ng	97
70) Phenanthrene	11.12	178	547448	40.892	ng	99
71) Anthracene	11.17	178	159928	11.815	ng	97
72) Carbazole	11.33	167	34448	2.628	ng	97
74) Fluoranthene	12.30	202	428049	33.404	ng	99
77) Pvrene	12.53	202	492897	28.974	ng	99
80) Benzo(a)anthracene	13.72	228	183287m	15.693	ng	
82) Chrysene	13.75	228	180852m	15.729	ng	
85) Indeno(1,2,3-cd)pyrene	16.39	276	50229	7.849	ng	96
87) Benzo(b)fluoranthene	14.73	252	130394m	16.226	ng	
88) Benzo(k)fluoranthene	14.74	252	45080m	5.924	ng	
89) Benzo(a)pvrene	15.04	252	110951	15.054	ng	# 93
90) Dibenzo(a,h)anthracene	16.39	278	15477	2.282	ng	# 62
91) Benzo(g,h,i)perylene	16.77	276	55608	7.657	ng	95

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

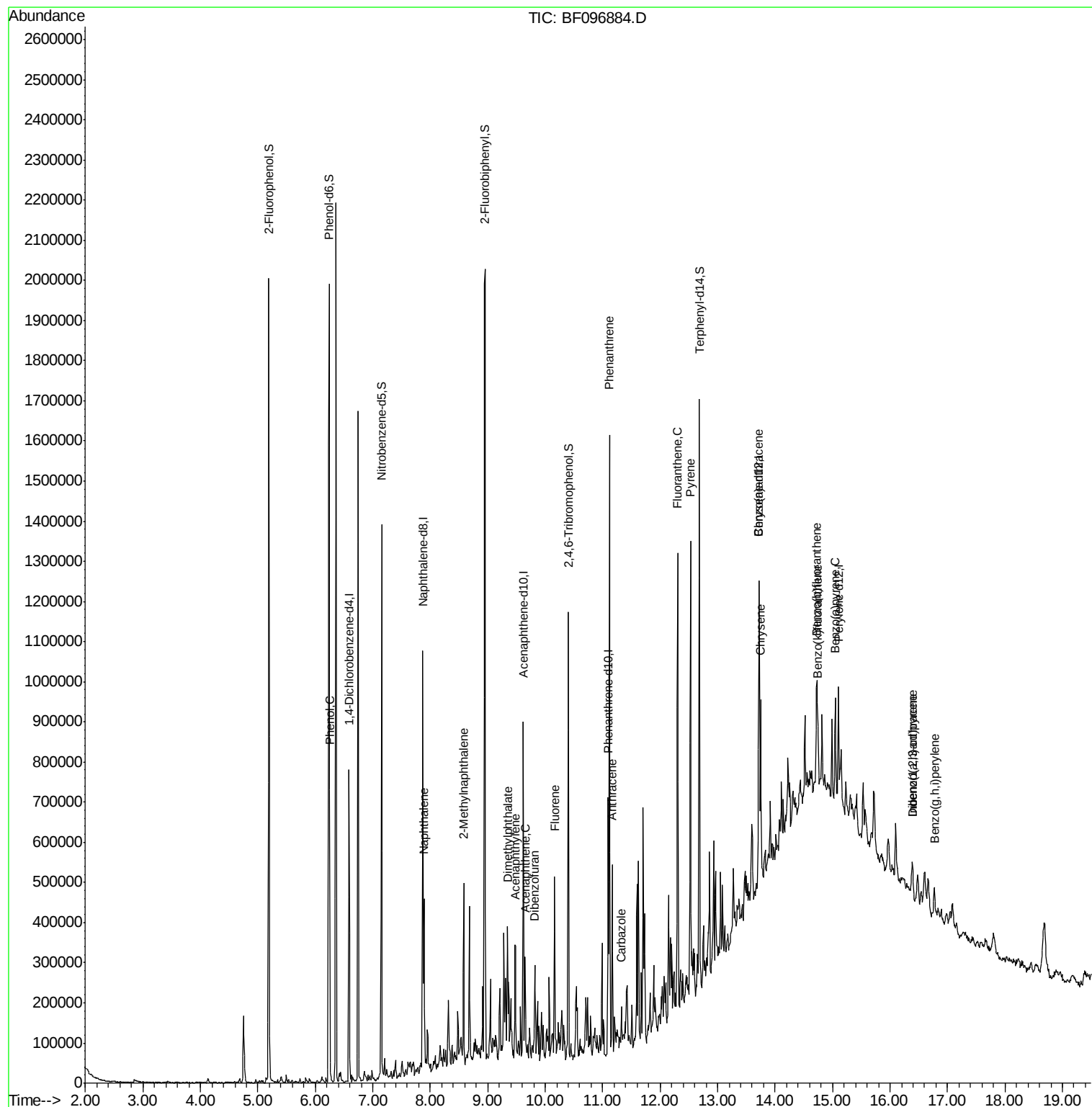
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
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ALS Vial : 17 Sample Multiplier: 1

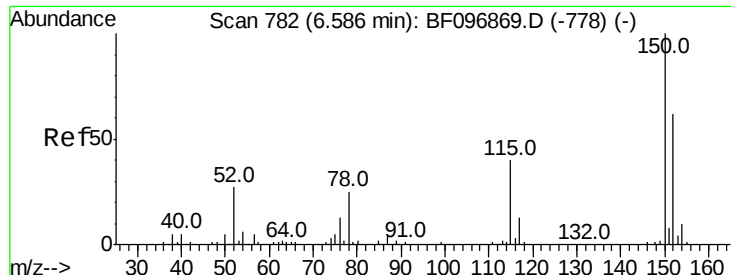
Instrument :
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ClientSampleId :
CL-01-071817-C

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Quant Time: Jul 20 05:16:47 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

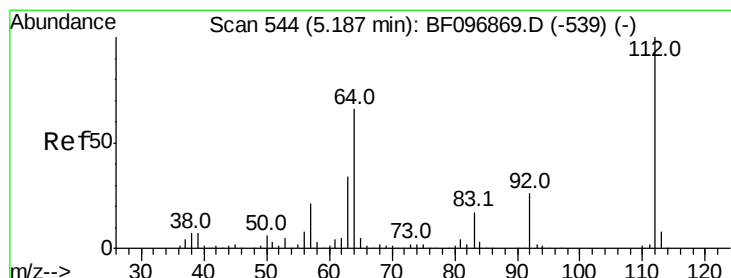
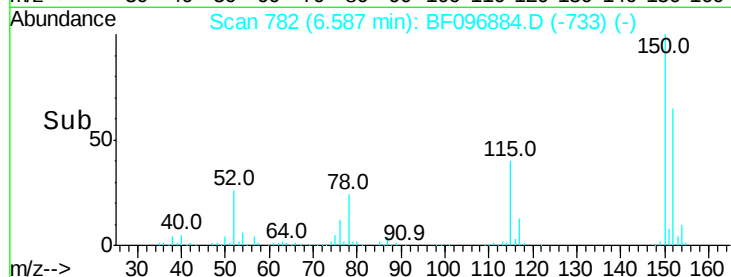
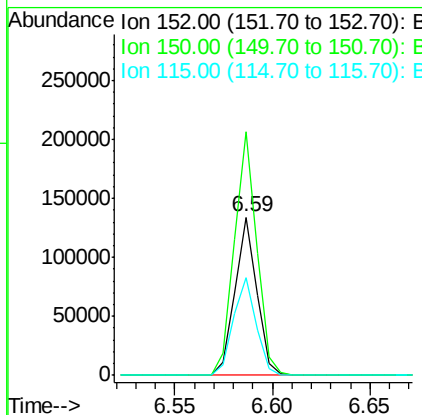
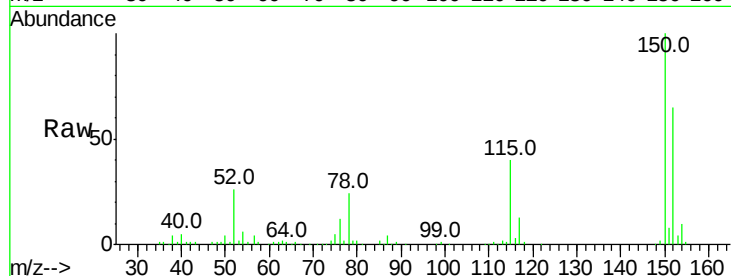
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.59 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	126.2	189.2
115	61.7	52.2	78.2

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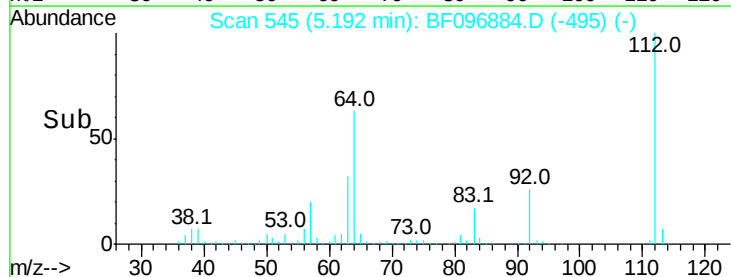
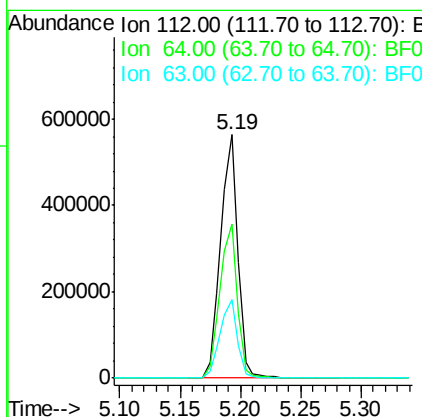
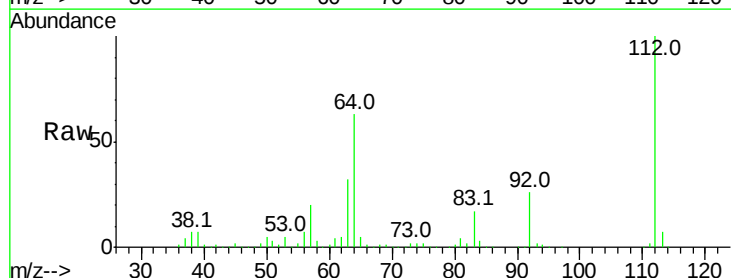
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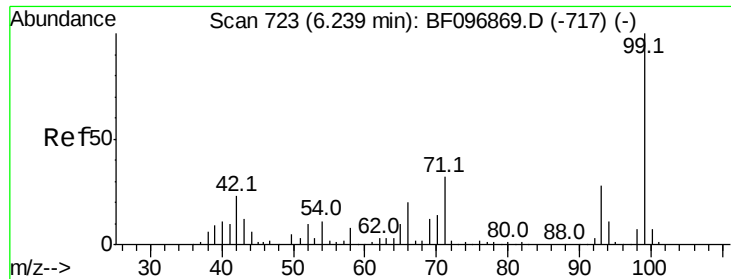


#5

2-Fluorophenol
Concen: 79.576 ng
RT: 5.19 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.1	46.0	69.0
63	32.2	23.4	35.0





#7

Phenol-d6

Concen: 80.178 ng

RT: 6.24 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Instrument :

BNA_F

ClientSampleId :

CL-01-071817-C

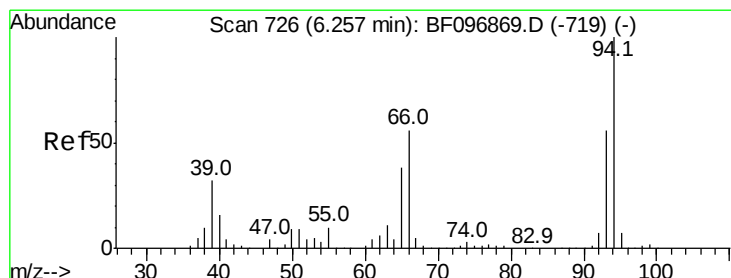
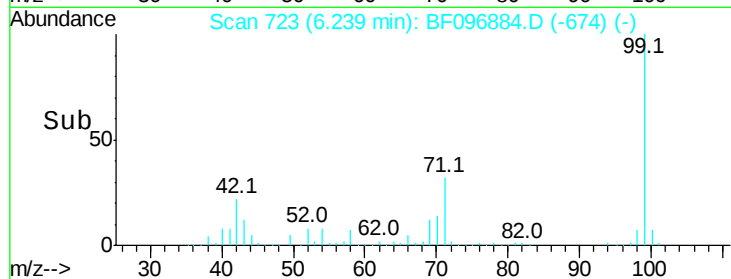
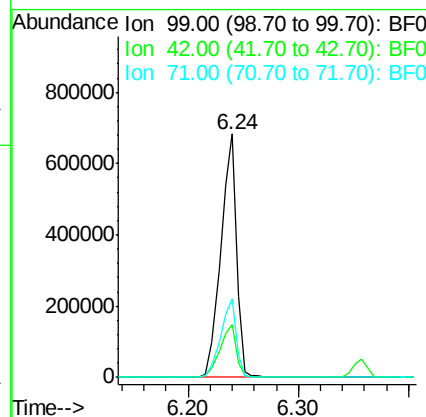
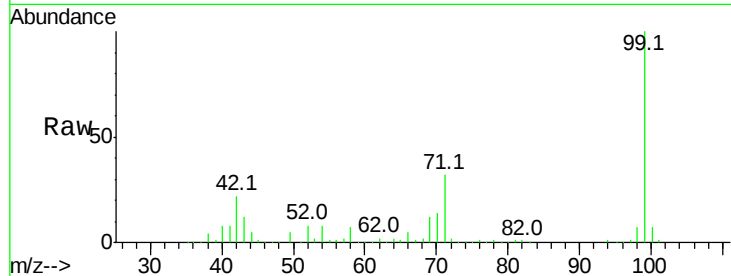
Tot Ion: 99 Resp: 670576

Ion	Ratio	Lower	Upper
99	100		
42	21.8	13.5	20.3#
71	32.2	24.5	36.7

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#10

Phenol

Concen: 3.219 ng

RT: 6.25 min Scan# 725

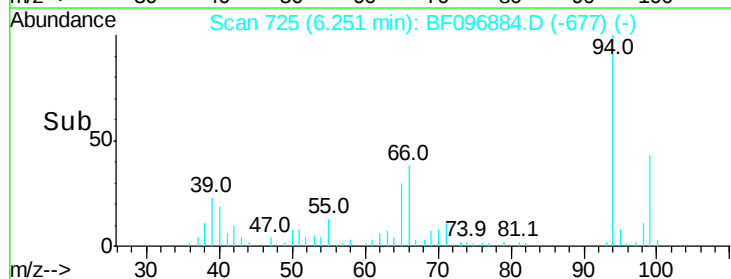
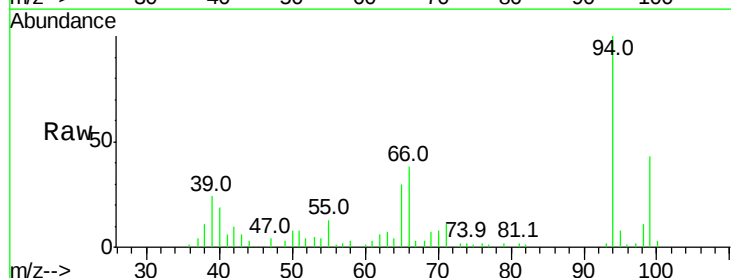
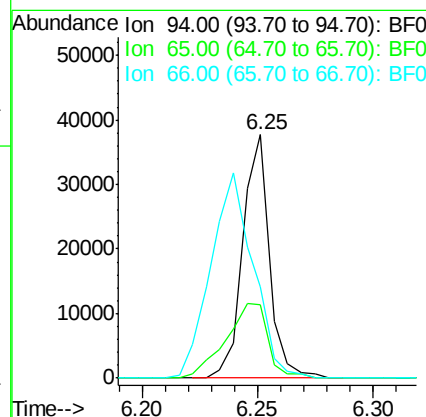
Delta R.T. -0.02 min

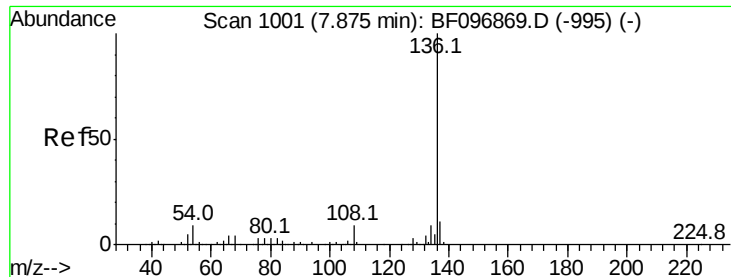
Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Tgt Ion: 94 Resp: 30431

Ion	Ratio	Lower	Upper
94	100		
65	29.9	9.9	49.9
66	37.5	23.1	63.1





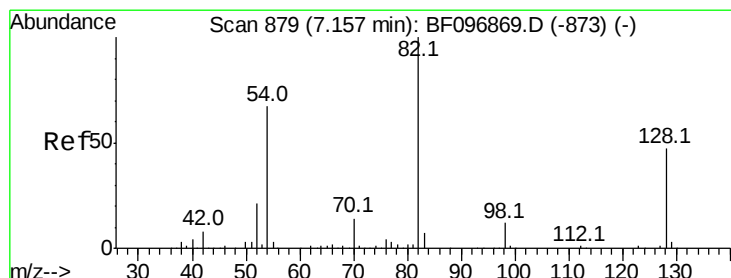
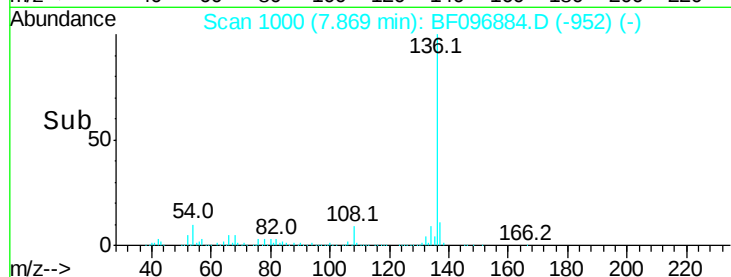
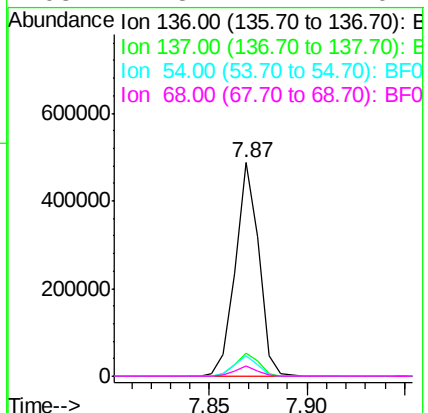
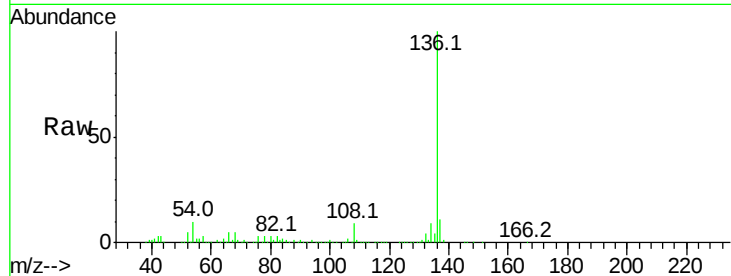
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.87 min Scan# 1000
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.5	12.7	
54	9.5	4.9	7.3	
68	4.8	4.1	6.1	

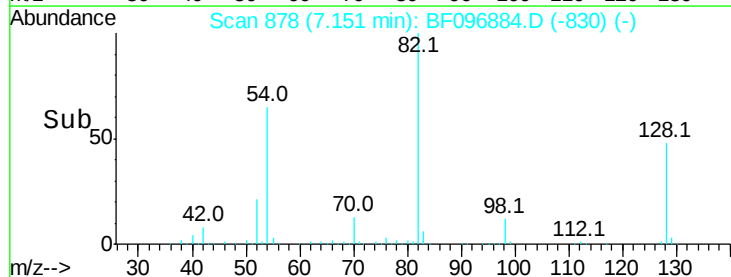
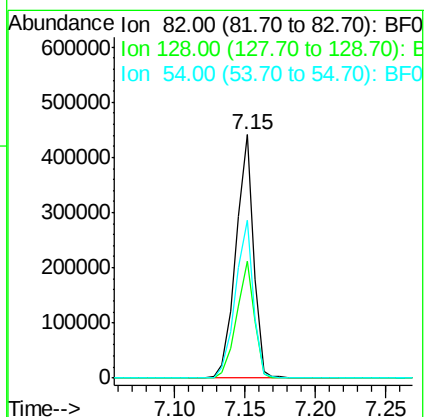
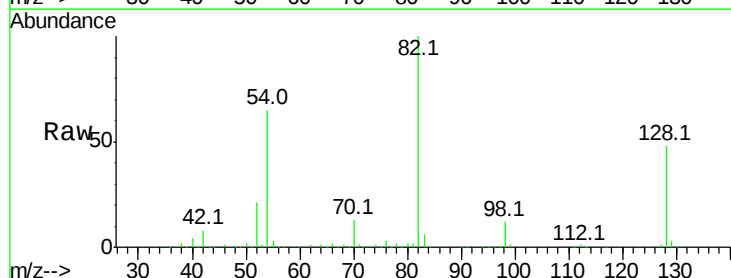
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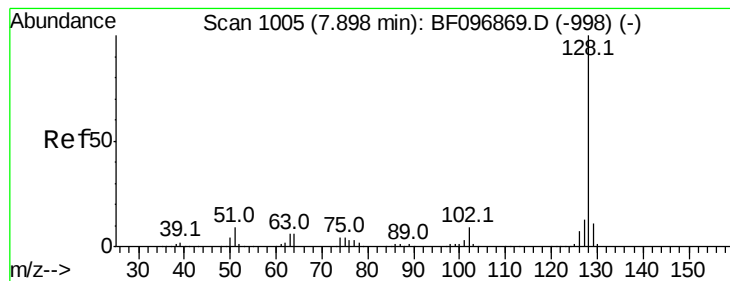
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#23
Nitrobenzene-d5
Concen: 58.589 ng
RT: 7.15 min Scan# 878
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.9	34.0	51.0	
54	64.7	42.2	63.2	





#31

Naphthalene

Concen: 9.182 ng

RT: 7.89 min Scan# 1004

Delta R.T. -0.02 min

Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Instrument :

BNA_F

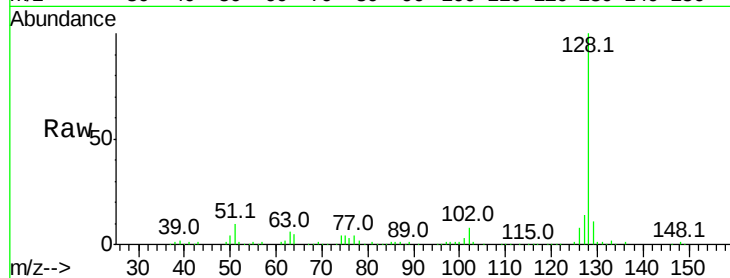
ClientSampleId :

CL-01-071817-C

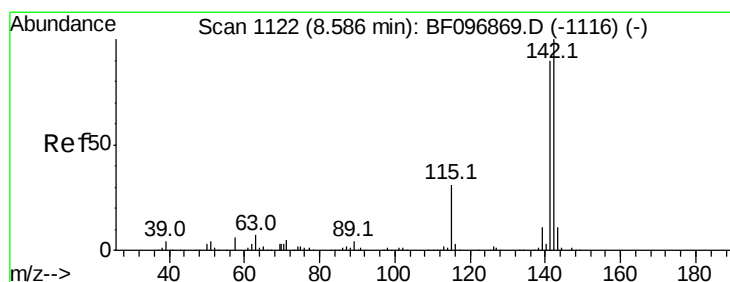
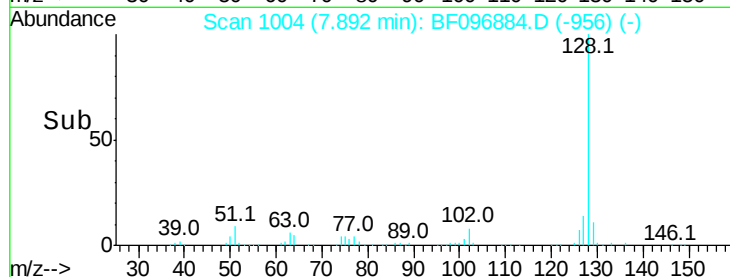
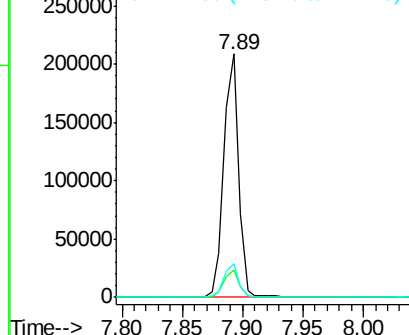
Tot Ion:	128	Resp:	176465
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.0	13.6
127	13.7	10.8	16.2

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 8.393 ng

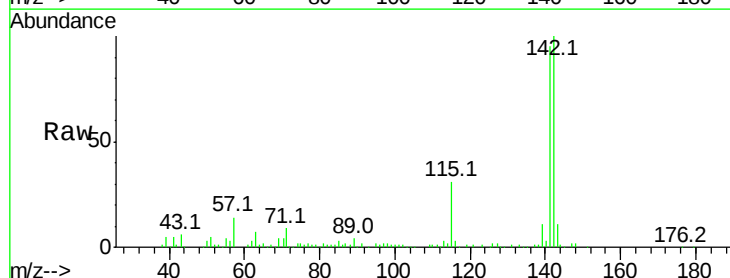
RT: 8.58 min Scan# 1121

Delta R.T. -0.02 min

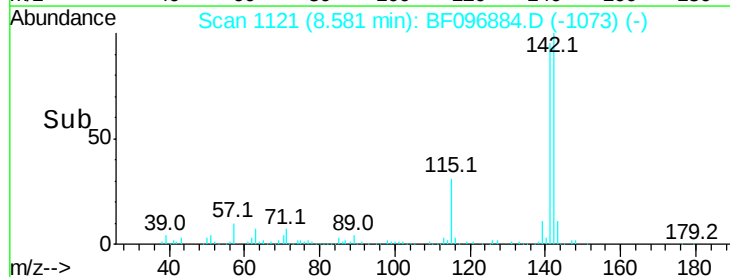
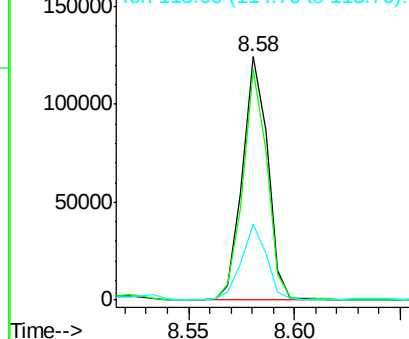
Lab File: BF096884.D

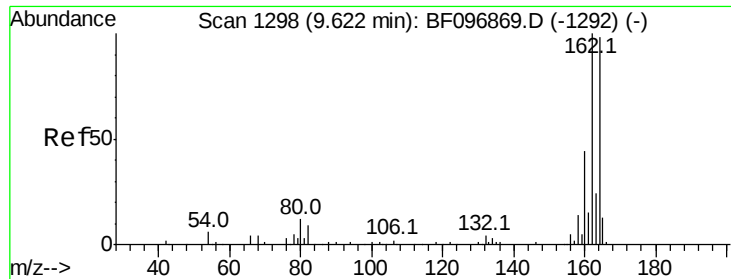
Acq: 19 Jul 2017 21:52

Tgt Ion:	142	Resp:	102838
Ion Ratio	Lower	Upper	
142	100		
141	94.7	71.3	106.9
115	31.4	27.1	40.7



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





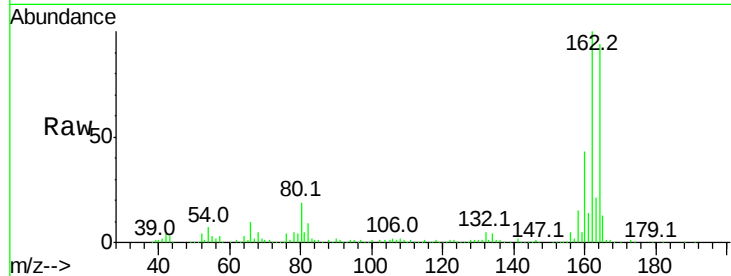
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.62 min Scan# 1297
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

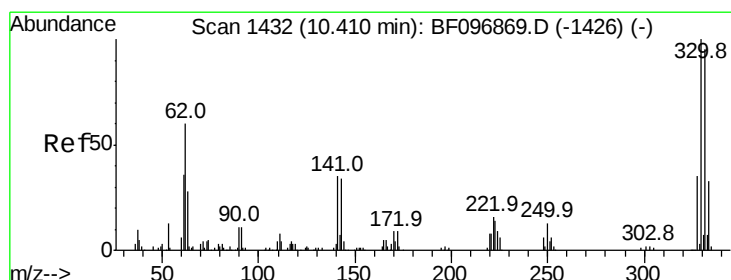
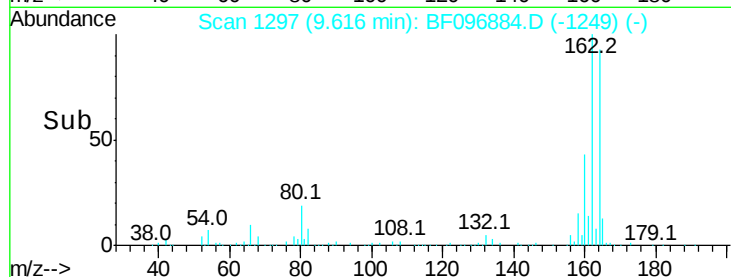
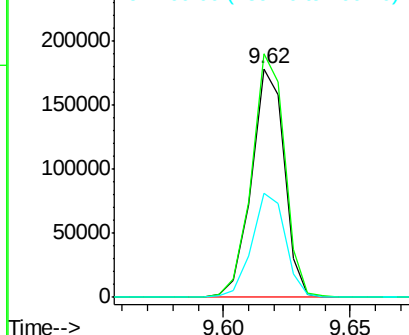
Tot Ion	Ratio	Resp	Lower	Upper
164	100	161072		
162	106.4	82.6	123.8	
160	45.3	36.2	54.2	

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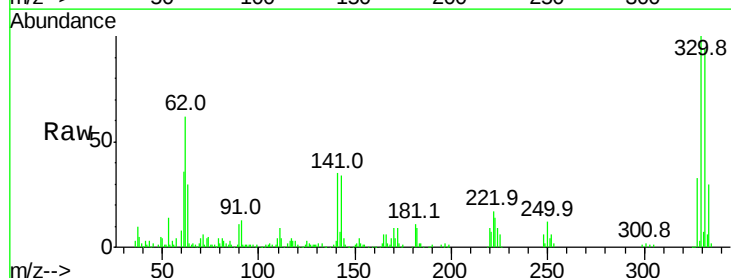


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

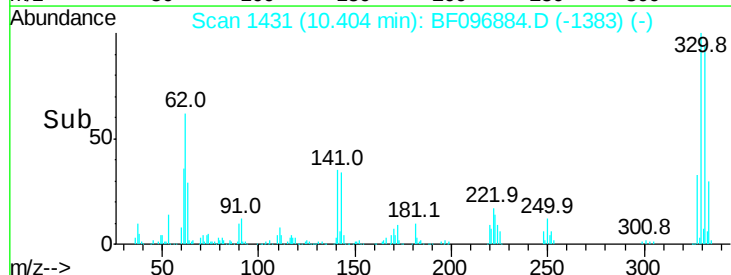
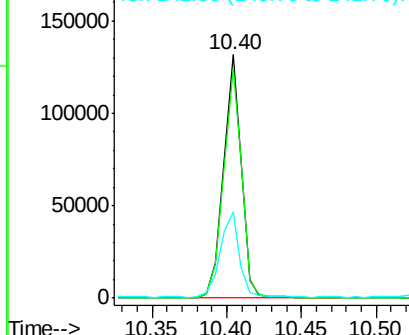


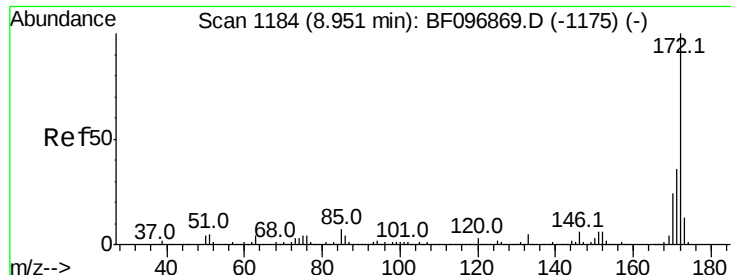
#41
2,4,6-Tribromophenol
Concen: 82.098 ng
RT: 10.40 min Scan# 1431
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	112875		
332	96.1	76.6	115.0	
141	37.0	31.4	47.2	



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





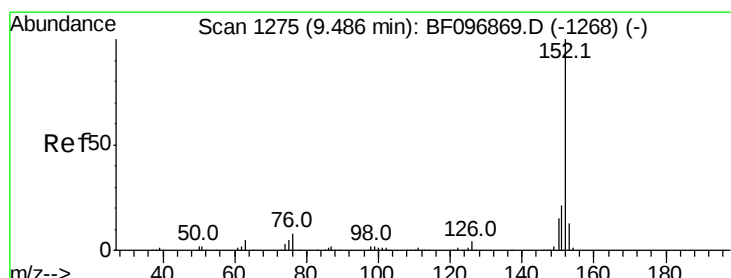
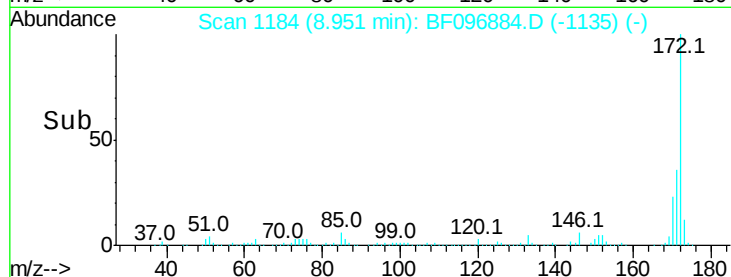
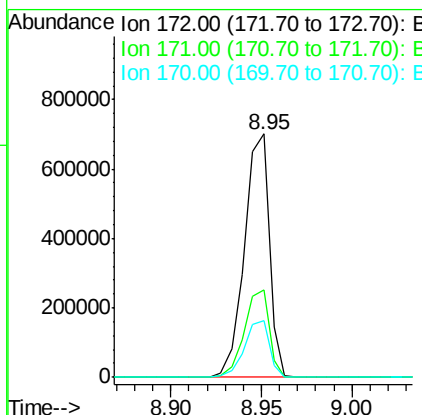
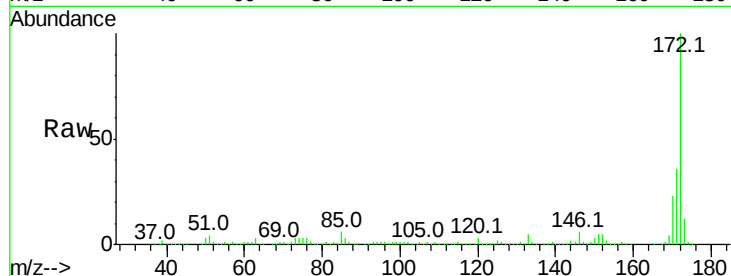
#44
2-Fluorobiphenyl
Concen: 65.866 ng
RT: 8.95 min Scan# 1184
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

Tot Ion	Ratio	Resp	Lower	Upper
172	100	671497		
171	35.7		29.6	44.4
170	23.4		19.8	29.8

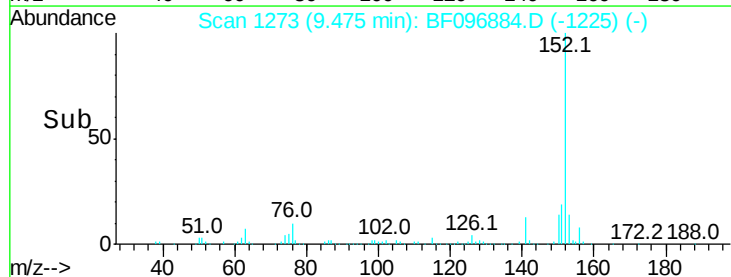
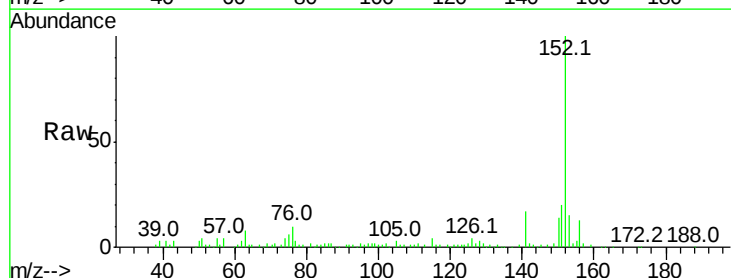
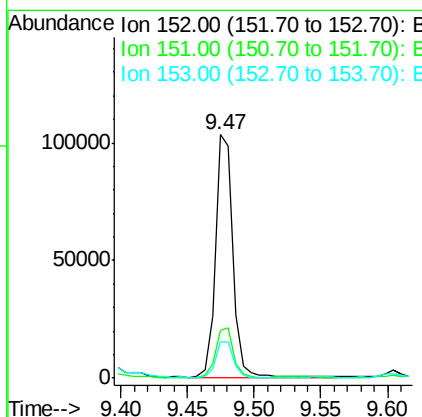
Manual Integrations
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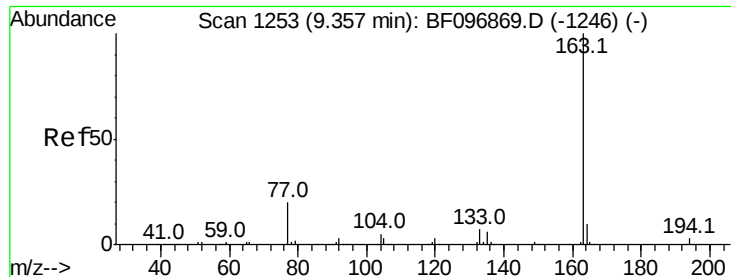
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#48
Acenaphthylene
Concen: 5.843 ng
RT: 9.47 min Scan# 1273
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	94693		
151	19.7		16.8	25.2
153	14.8		10.8	16.2





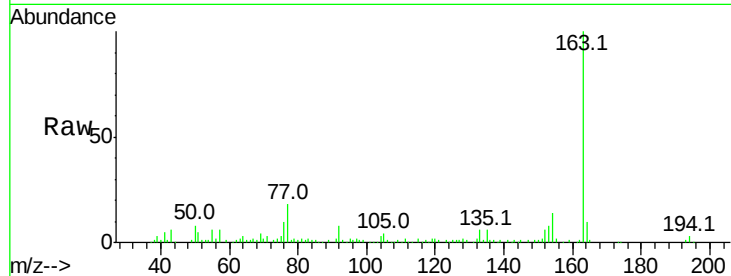
#49
Dimethylphthalate
Concen: 7.847 ng
RT: 9.35 min Scan# 1251
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

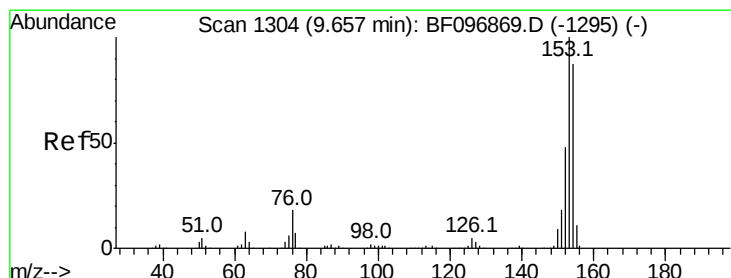
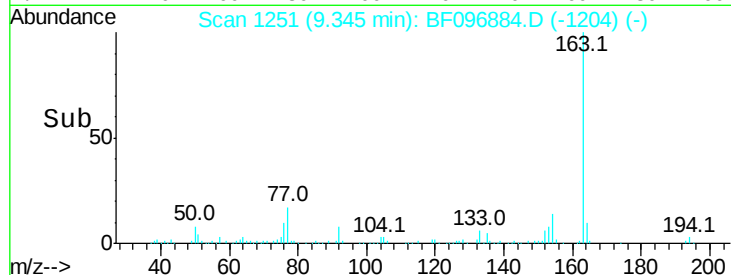
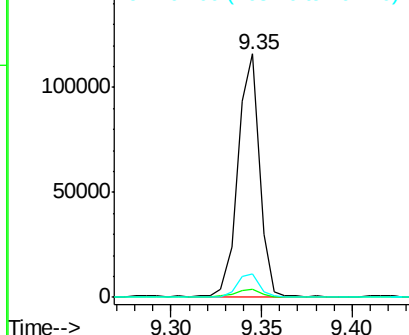
Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.3	2.6	4.0	
164	9.7	8.4	12.6	

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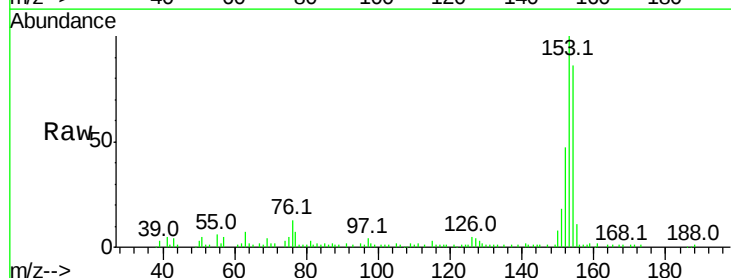


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

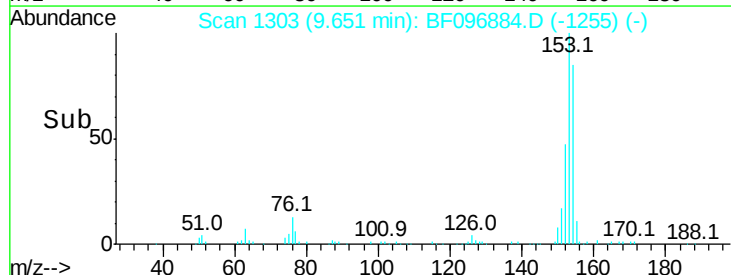
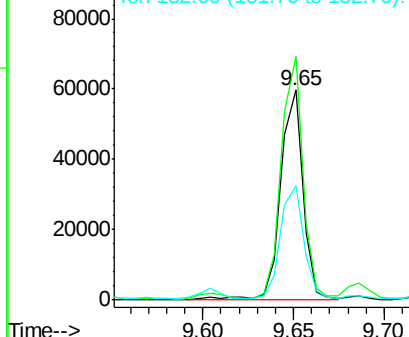


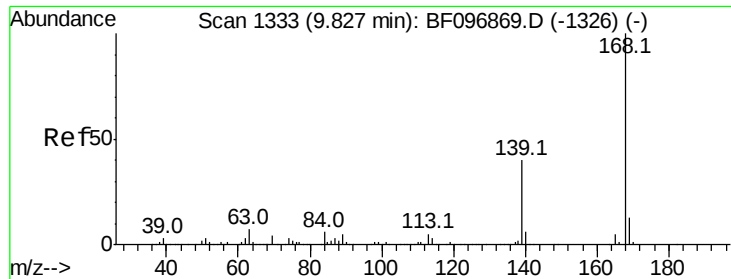
#51
Acenaphthene
Concen: 5.380 ng
RT: 9.65 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	116.0	90.5	135.7	
152	54.5	43.6	65.4	



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





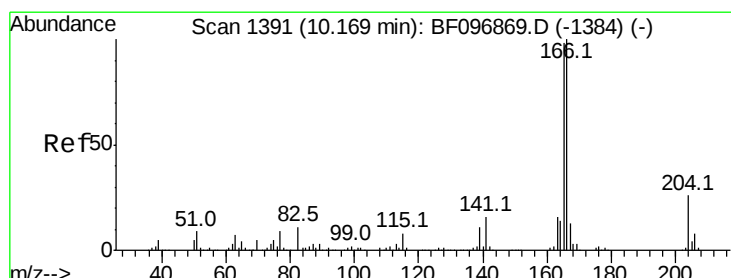
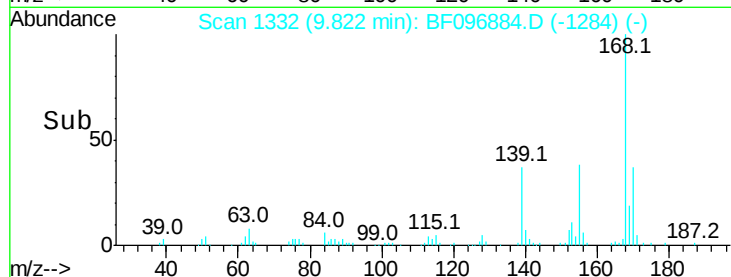
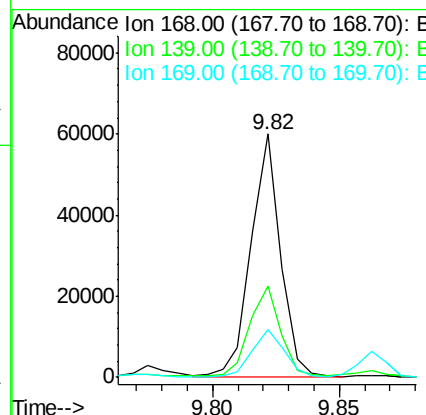
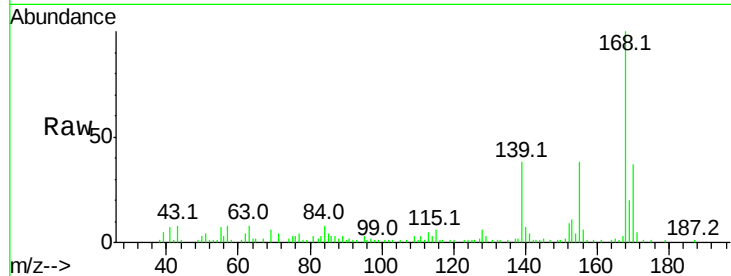
#54
Dibenzenofuran
Concen: 3.651 ng
RT: 9.82 min Scan# 1332
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.6	30.6	45.8
169	19.5	10.8	16.2

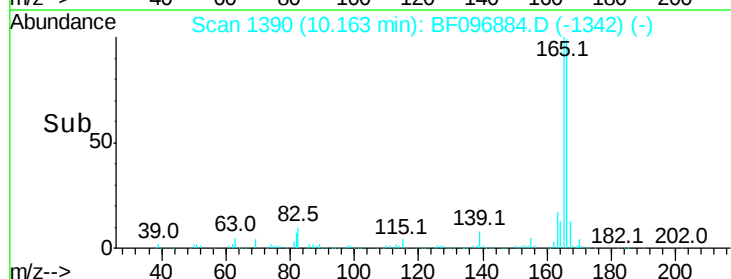
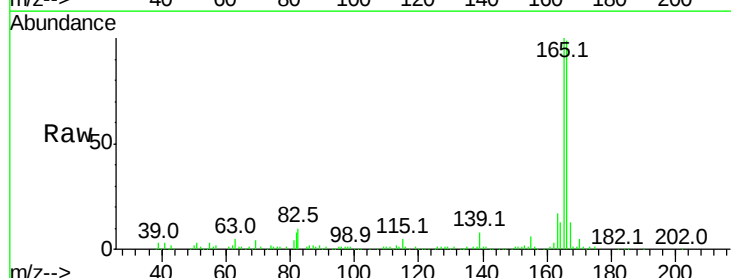
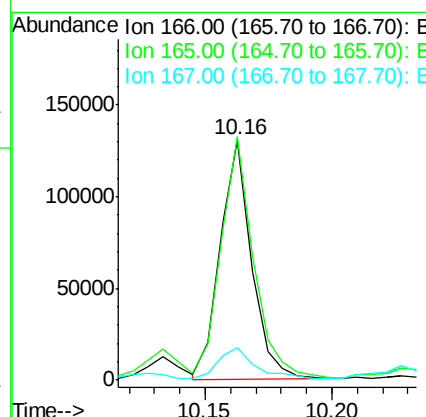
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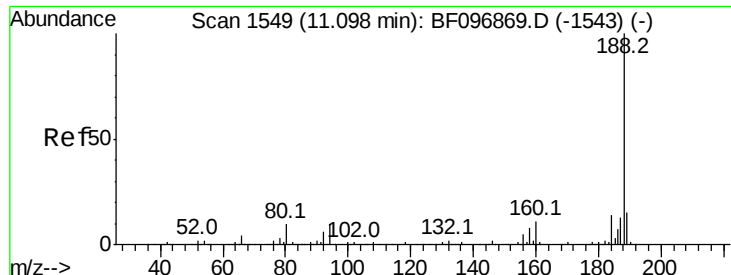
Sohil
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#57
Fluorene
Concen: 11.321 ng
RT: 10.16 min Scan# 1390
Delta R.T. -0.02 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.5	78.8	118.2
167	13.7	10.6	16.0





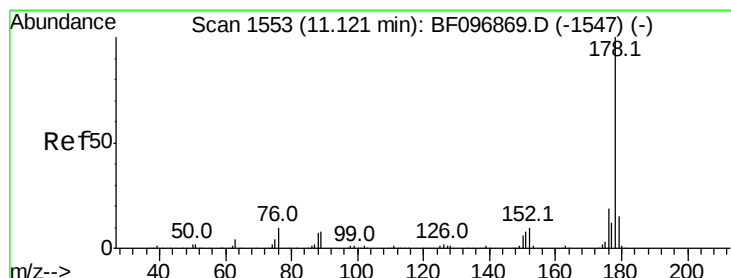
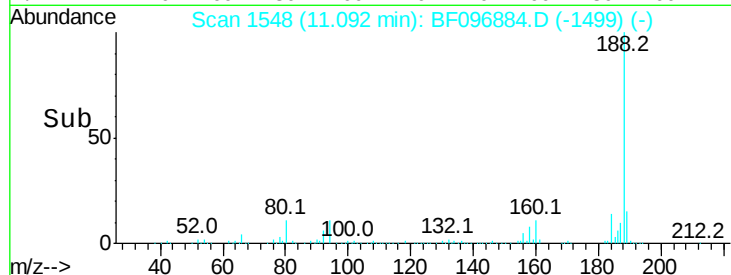
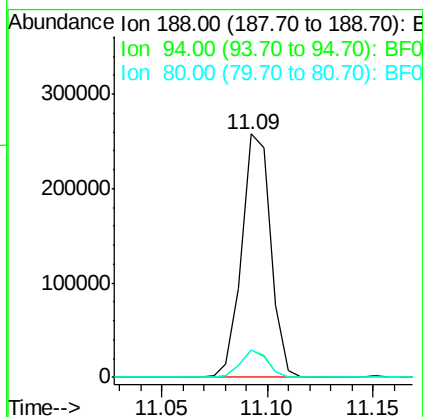
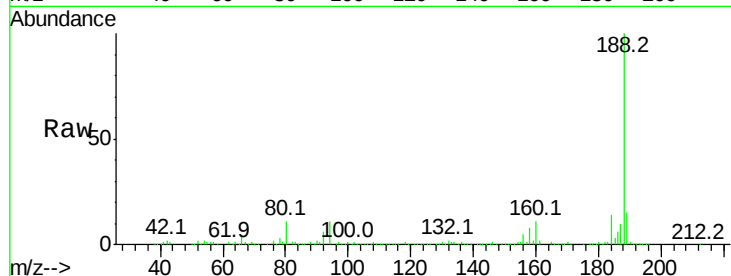
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.09 min Scan# 1548
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

Tot Ion	Ratio	Resp	Lower	Upper
188	100	246215		
94	11.2		9.4	14.2
80	11.0		10.2	15.2

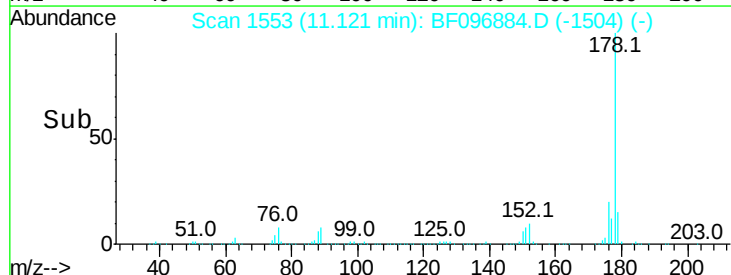
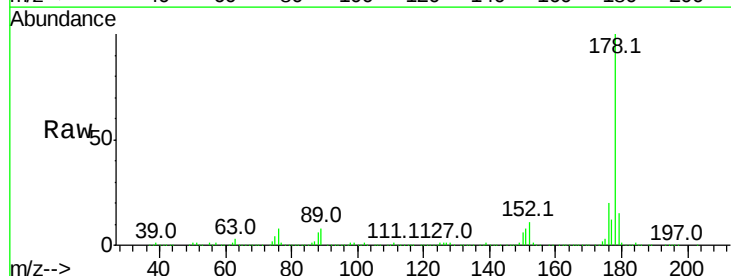
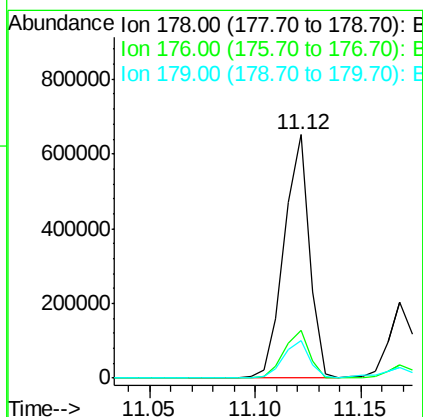
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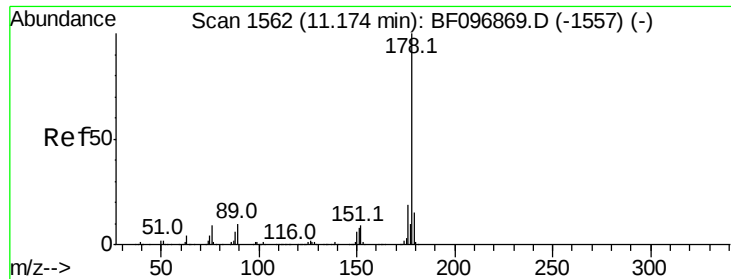
Sohil
7/20/2017 3:05:05 PM



#70
Phenanthrene
Concen: 40.892 ng
RT: 11.12 min Scan# 1553
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	547448		
176	19.8		16.2	24.4
179	15.2		12.6	19.0





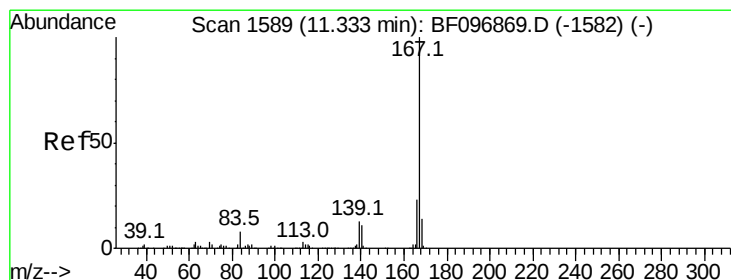
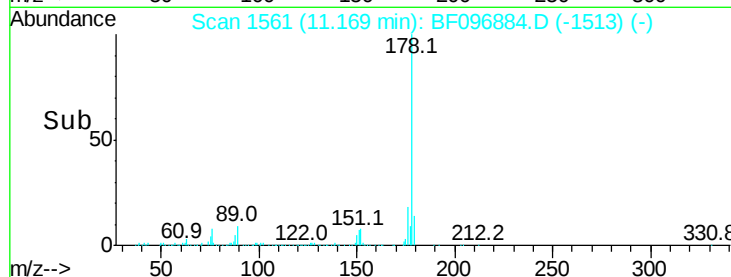
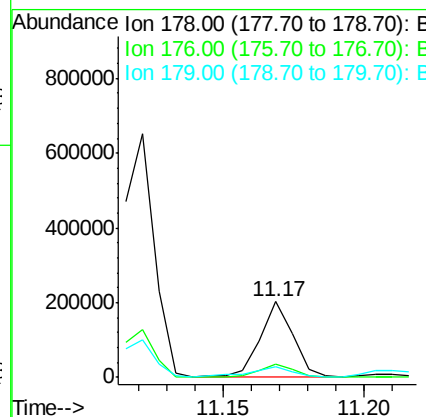
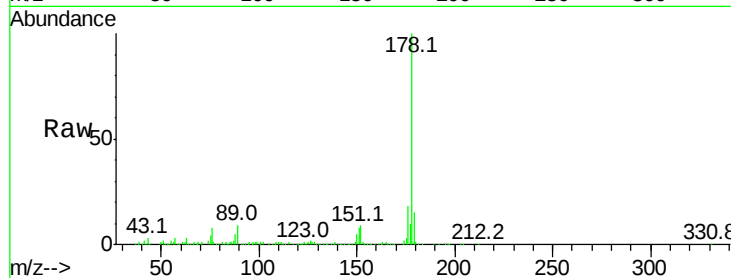
#71
 Anthracene
 Concen: 11.815 ng
 RT: 11.17 min Scan# 1561
 Delta R.T. -0.02 min
 Lab File: BF096884.D
 Acq: 19 Jul 2017 21:52

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-071817-C

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.8	23.8
179	14.9	12.7	19.1

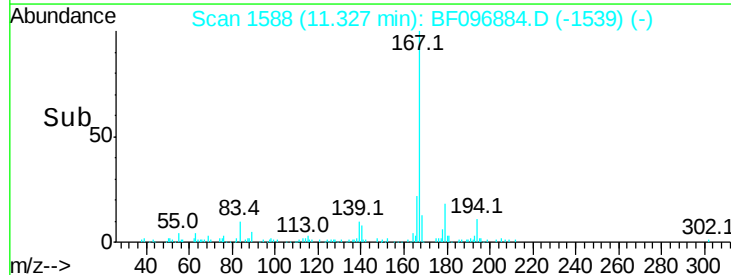
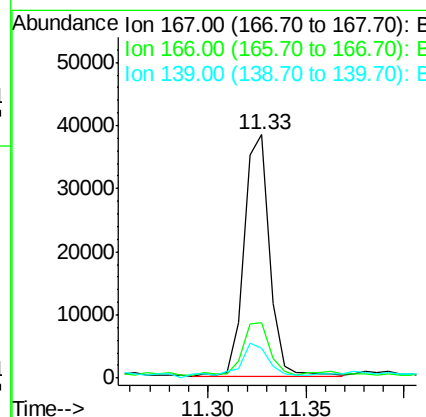
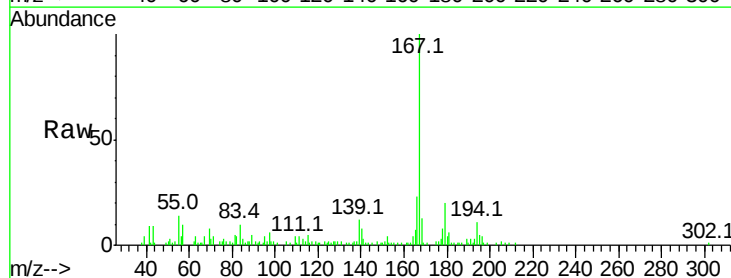
Manual Integrations
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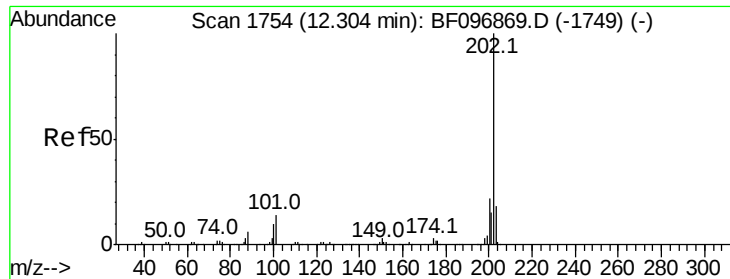
Sohil
 7/20/2017 3:05:05 PM



#72
 Carbazole
 Concen: 2.628 ng
 RT: 11.33 min Scan# 1588
 Delta R.T. -0.01 min
 Lab File: BF096884.D
 Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.7	18.1	27.1
139	12.0	11.7	17.5





#74

Fluoranthene

Concen: 33.404 ng

RT: 12.30 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Instrument :

BNA_F

ClientSampleId :

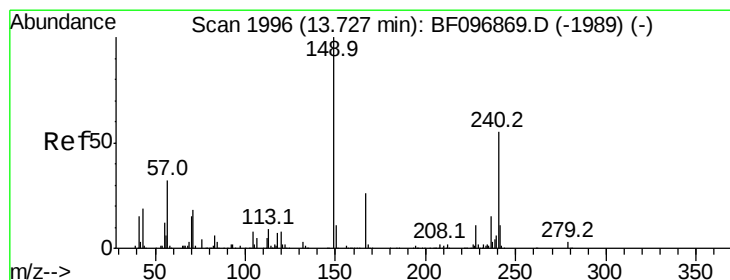
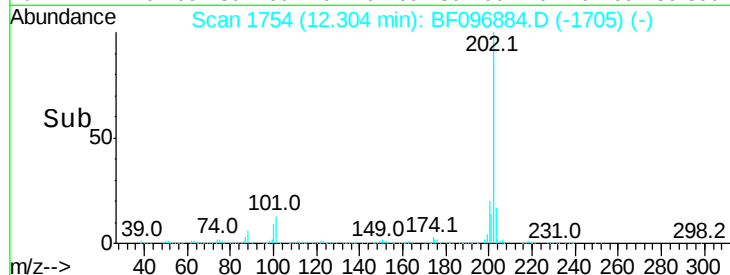
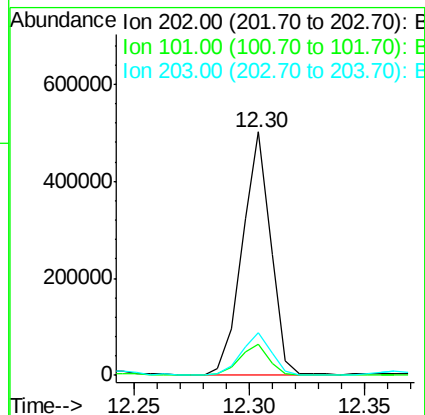
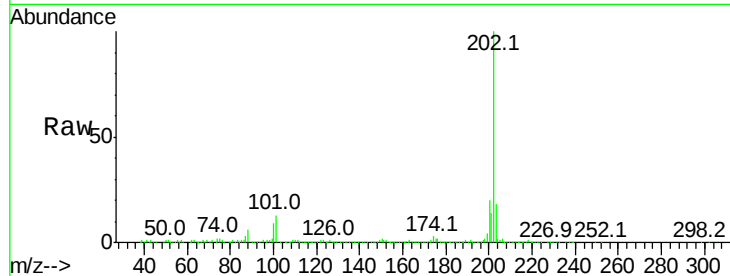
CL-01-071817-C

Tot Ion:	202	Resp:	428049
Ion Ratio		Lower	Upper
202	100		
101	12.7	0.0	33.2
203	17.6	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

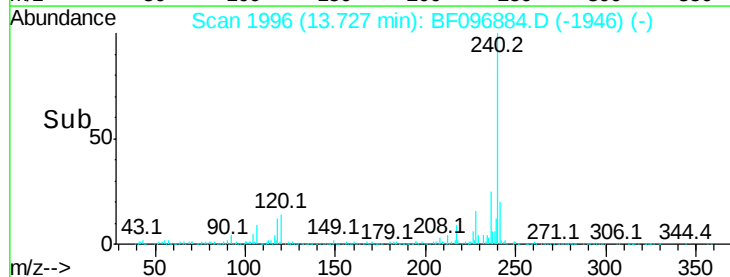
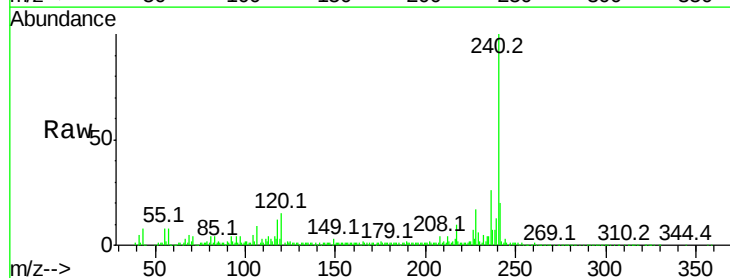
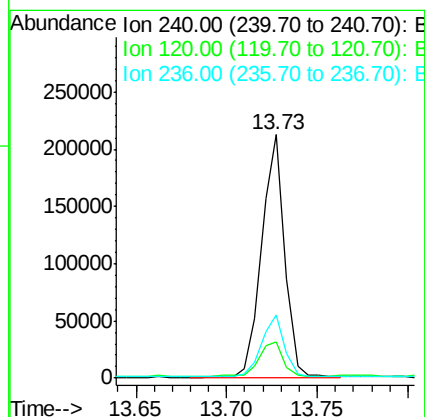
RT: 13.73 min Scan# 1996

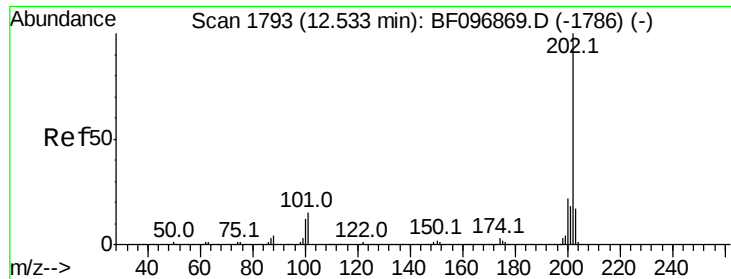
Delta R.T. -0.01 min

Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Tgt Ion:	240	Resp:	187447
Ion Ratio		Lower	Upper
240	100		
120	15.0	5.8	8.8#
236	25.7	20.5	30.7





#77

Pvrene

Concen: 28.974 ng

RT: 12.53 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Instrument :

BNA_F

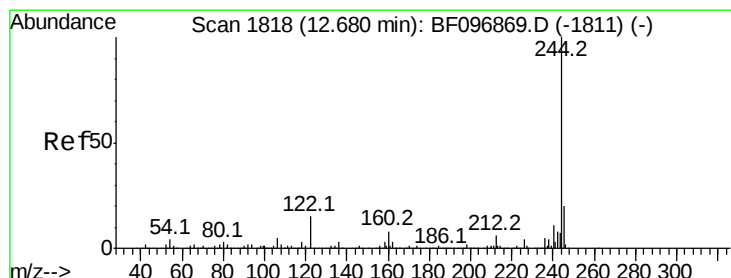
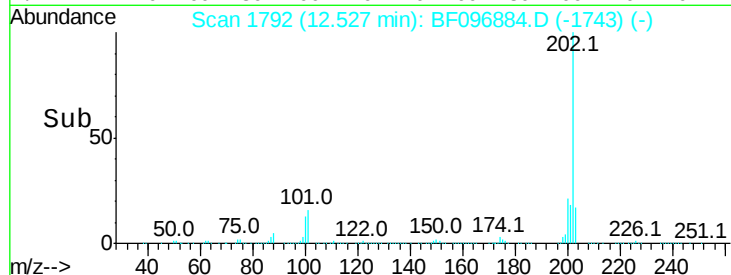
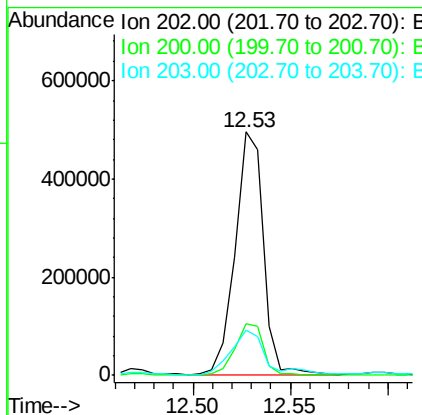
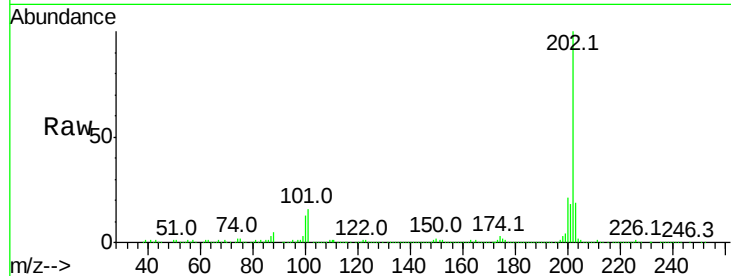
ClientSampleId :

CL-01-071817-C

Tot Ion:	202	Resp:	492897
Ion Ratio		Lower	Upper
202	100		
200	21.4	17.6	26.4
203	18.5	14.4	21.6

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#78

Terphenyl-d14

Concen: 41.490 ng

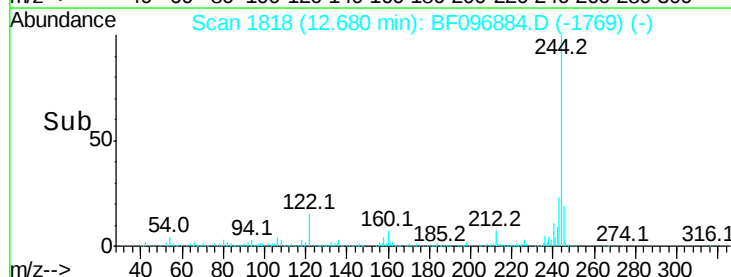
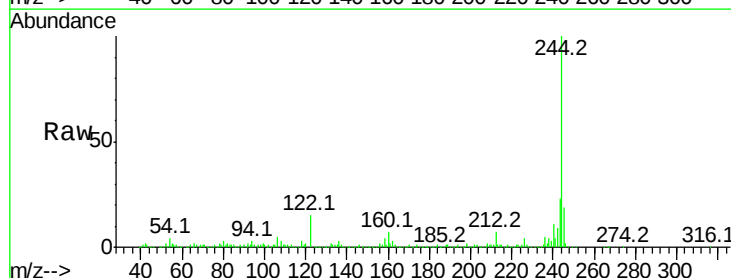
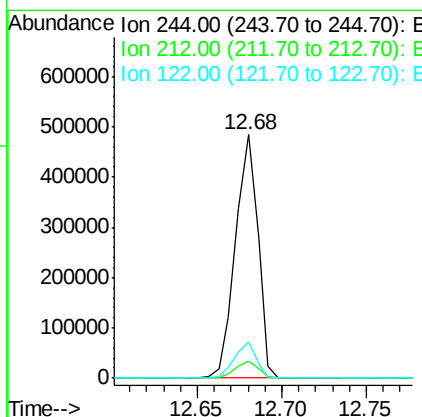
RT: 12.68 min Scan# 1818

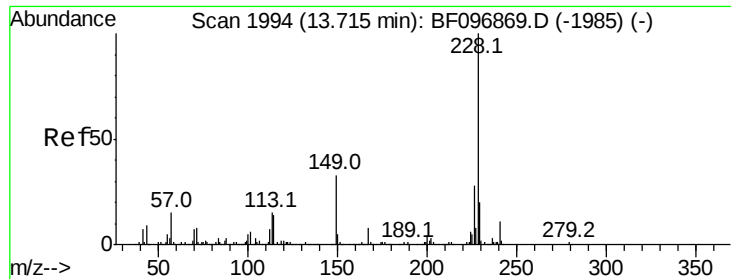
Delta R.T. -0.01 min

Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Tgt Ion:	244	Resp:	448445
Ion Ratio		Lower	Upper
244	100		
212	6.8	6.0	9.0
122	14.6	10.3	15.5





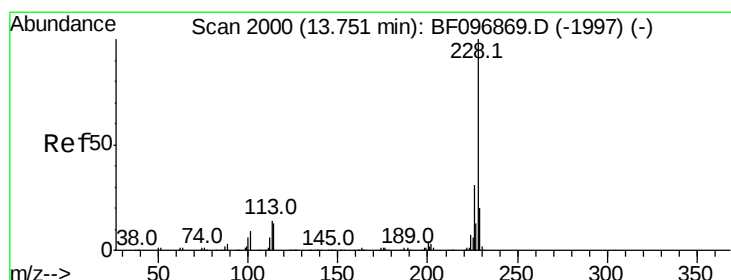
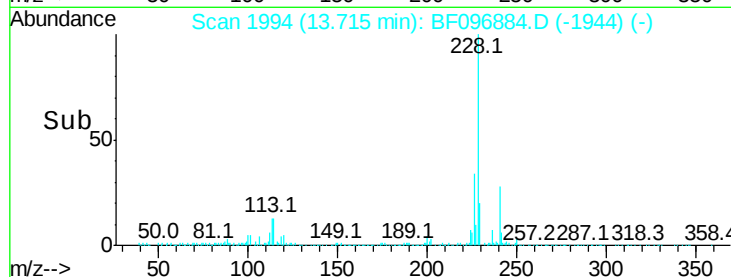
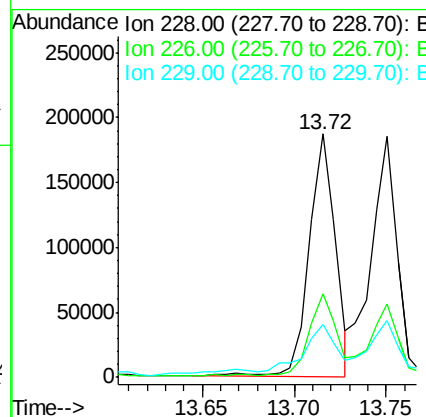
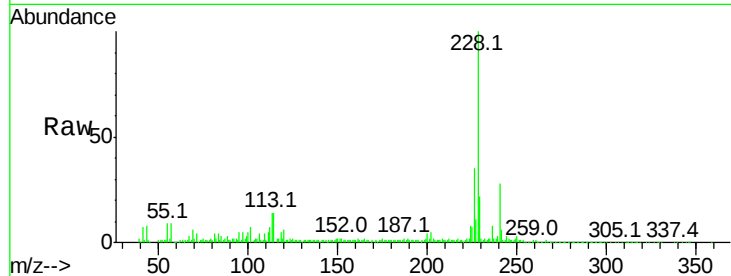
#80
Benzo(a)anthracene
Concen: 15.693 ng m
RT: 13.72 min Scan# 1994
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.6	22.6	33.8#
229	21.8	16.3	24.5

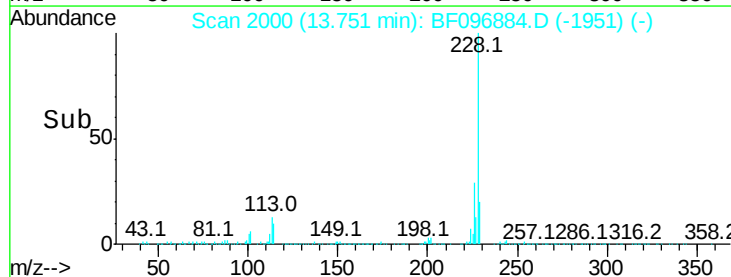
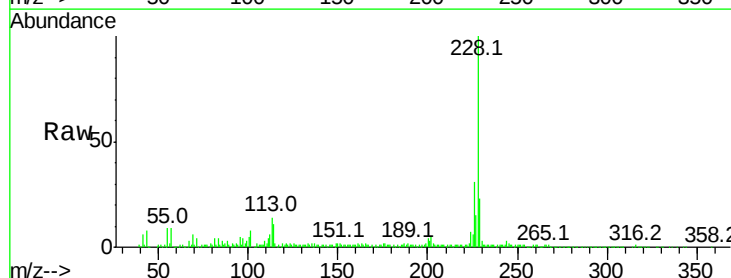
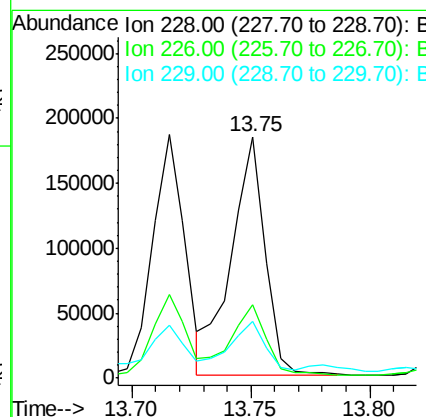
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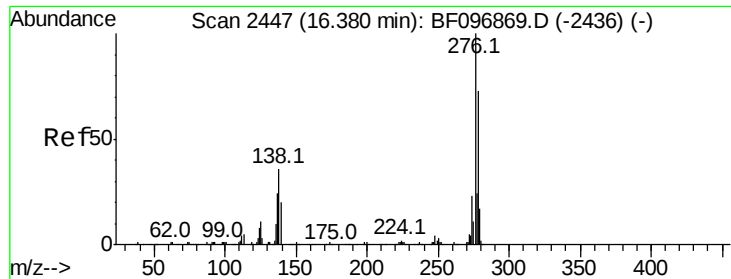
Sohil
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#82
Chrysene
Concen: 15.729 ng m
RT: 13.75 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.9	37.3
229	23.4	15.8	23.6





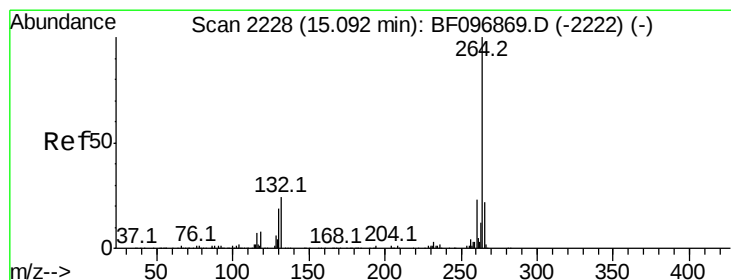
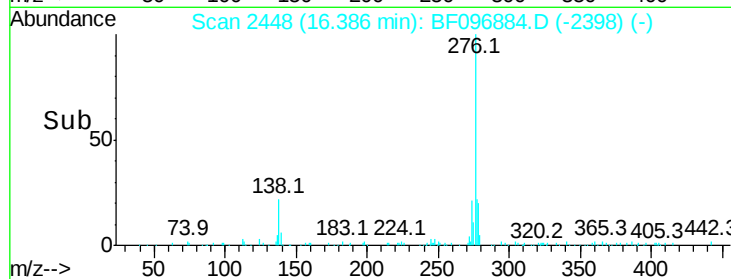
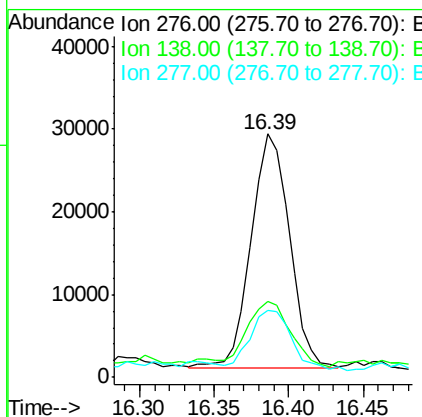
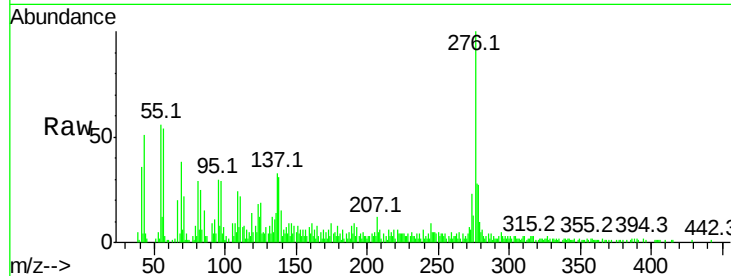
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.849 ng
 RT: 16.39 min Scan# 2448
 Delta R.T. -0.01 min
 Lab File: BF096884.D
 Acq: 19 Jul 2017 21:52

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-071817-C

Tot Ion	Ratio	Lower	Upper
276	100		
138	32.9	27.8	41.6
277	27.6	20.2	30.4

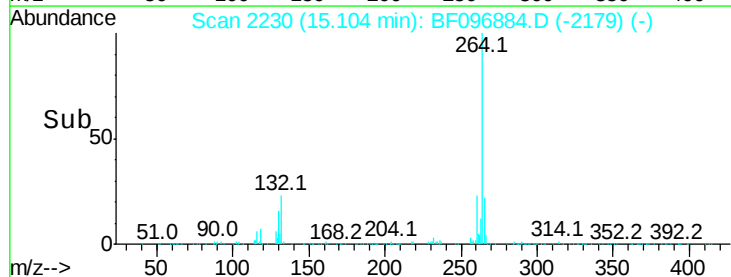
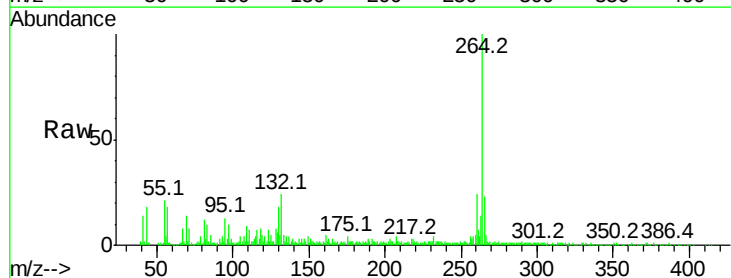
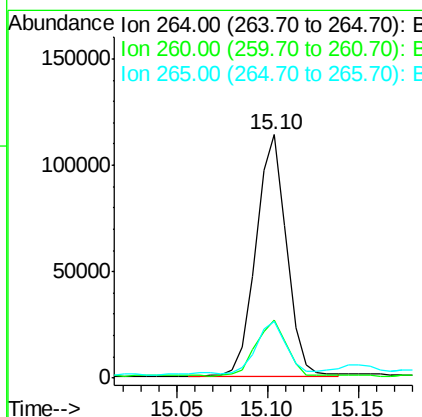
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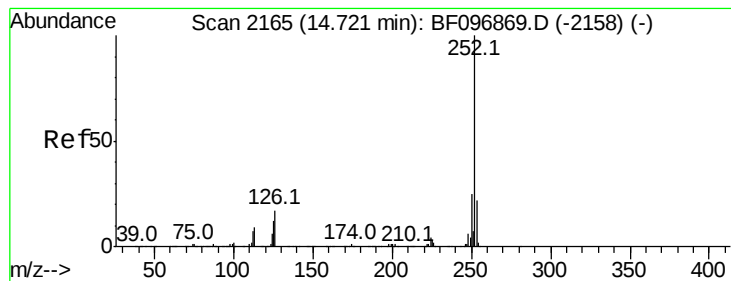
Sohil
 7/20/2017 3:05:05 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.10 min Scan# 2230
 Delta R.T. -0.00 min
 Lab File: BF096884.D
 Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	23.3	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 16.226 ng m

RT: 14.73 min Scan# 2166

Delta R.T. -0.00 min

Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Instrument :

BNA_F

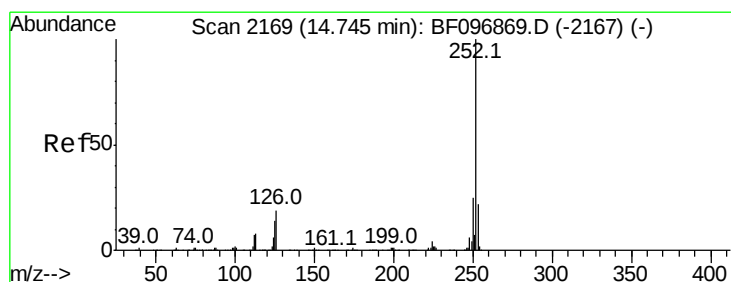
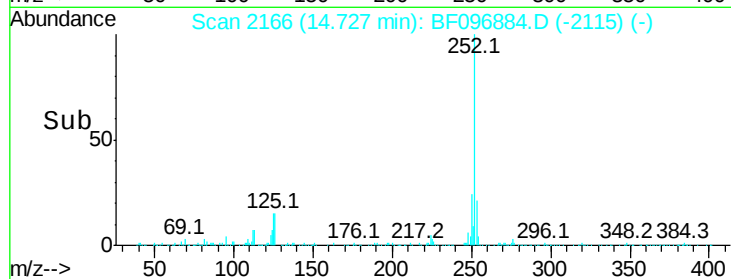
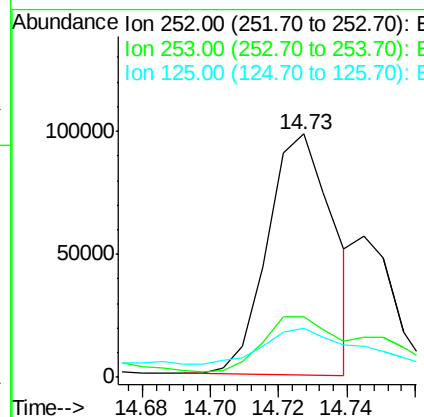
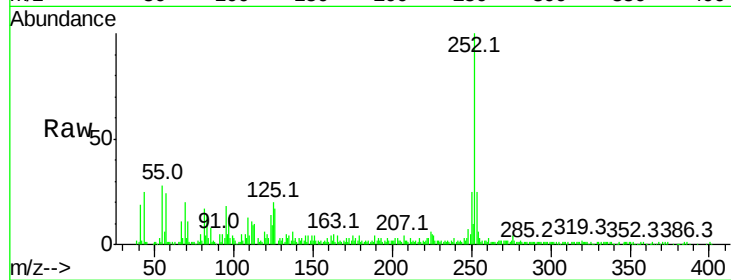
ClientSampleId :

CL-01-071817-C

Tot Ion:	252	Resp:	130394
Ion Ratio	Lower	Upper	
252	100		
253	24.8	18.1	27.1
125	20.3	9.8	14.8#

Manual Integrations
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7/20/2017 3:05:05 PM



#88

Benzo(k)fluoranthene

Concen: 5.924 ng m

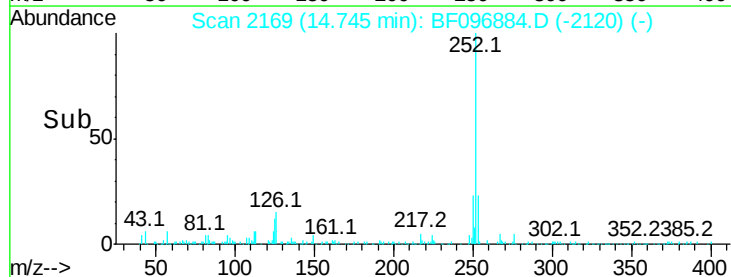
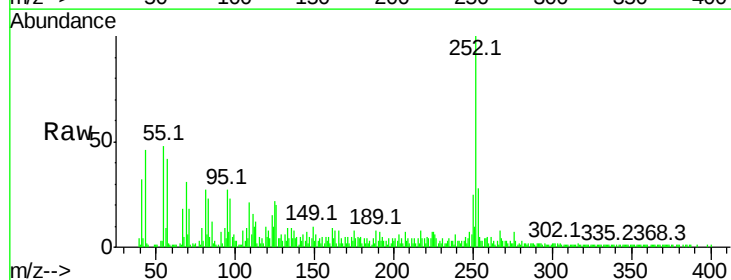
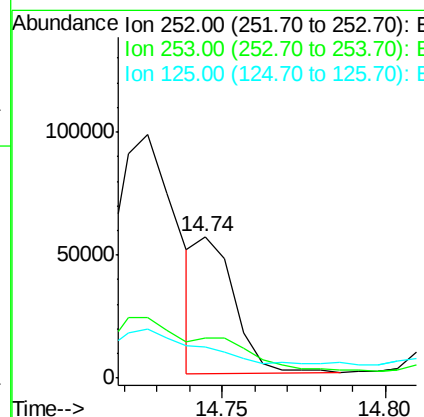
RT: 14.74 min Scan# 2169

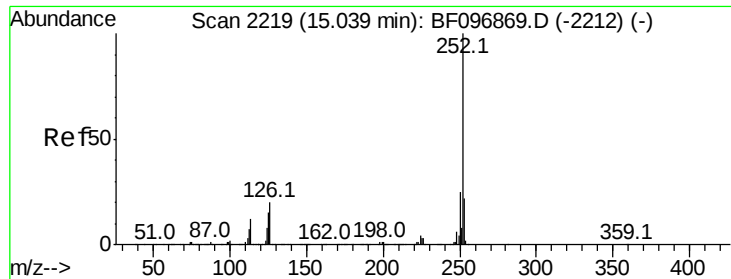
Delta R.T. -0.01 min

Lab File: BF096884.D

Acq: 19 Jul 2017 21:52

Tgt Ion:	252	Resp:	45080
Ion Ratio	Lower	Upper	
252	100		
253	28.0	18.4	27.6#
125	21.7	13.1	19.7#





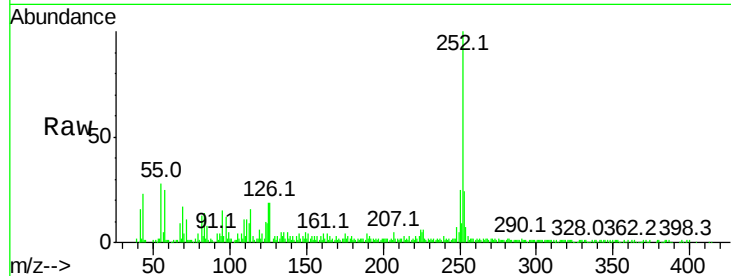
#89
Benzo(a)pyrene
Concen: 15.054 ng
RT: 15.04 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

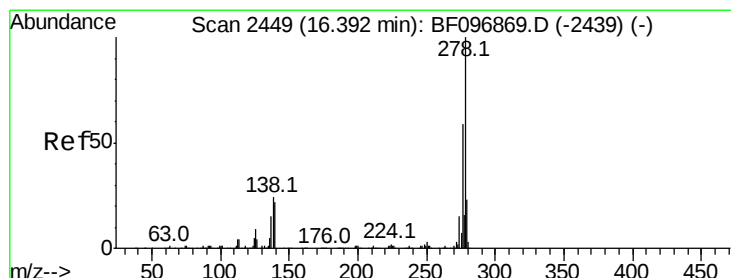
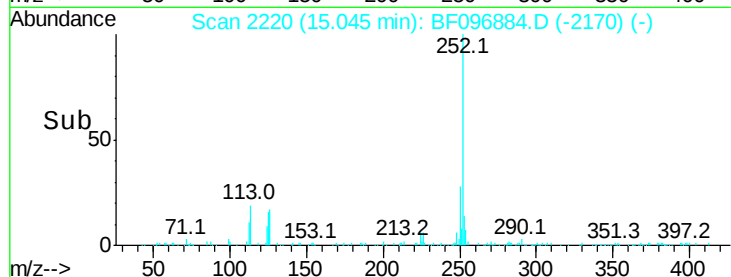
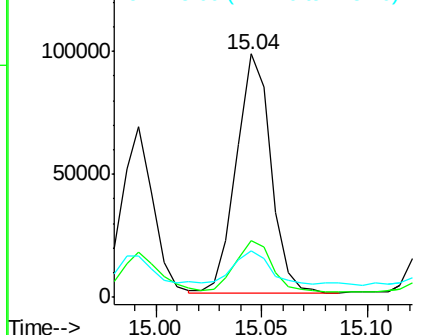
Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.6	17.5	26.3
125	19.1	11.0	16.4

Manual Integrations
APPROVED

Sohil
7/20/2017 3:05:05 PM



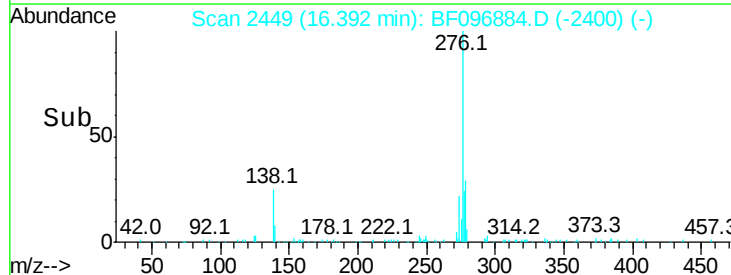
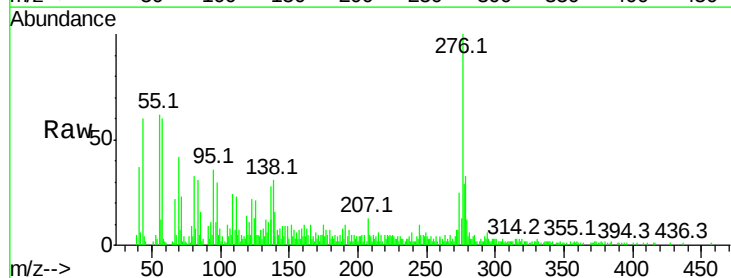
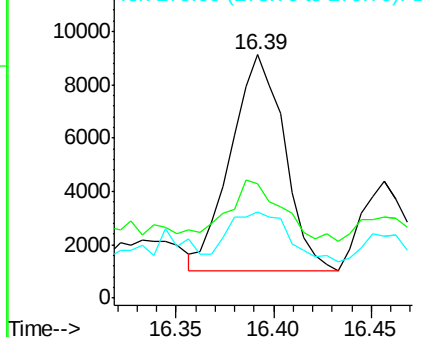
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

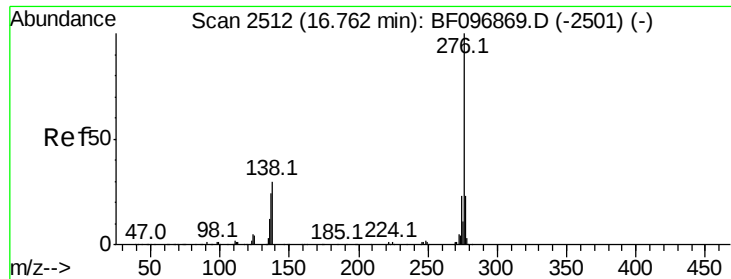


#90
Dibenzo(a,h)anthracene
Concen: 2.282 ng
RT: 16.39 min Scan# 2449
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	46.9	16.6	24.8
279	35.5	19.3	28.9

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
Benzo(a,h,i)perylene
Concen: 7.657 ng
RT: 16.77 min Scan# 2514
Delta R.T. -0.01 min
Lab File: BF096884.D
Acq: 19 Jul 2017 21:52

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-C

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.0	18.6	28.0
138	30.4	25.4	38.0

Manual Integrations
APPROVED

Sohil
7/20/2017 3:05:05 PM

