

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102817\
 Data File : BF099931.D
 Acq On : 28 Oct 2017 21:42
 Operator : SJ/JU
 Sample : I6169-01 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-102617

Manual Integrations
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Quant Time: Oct 30 04:45:57 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 27 15:58:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	97060	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	365816	20.00	ng	-0.01
38) Acenaphthene-d10	9.82	164	144180	20.00	ng	-0.02
63) Phenanthrene-d10	11.32	188	198942	20.00	ng	-0.02
75) Chrysene-d12	13.97	240	161776	20.00	ng	-0.02
86) Perylene-d12	15.43	264	164045	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	35864	5.80	ng	0.01
7) Phenol-d6	6.45	99	47196	6.44	ng	0.00
23) Nitrobenzene-d5	7.36	82	25698	4.52	ng	0.00
41) 2,4,6-Tribromophenol	10.62	330	5843	4.45	ng	-0.02
44) 2-Fluorobiphenyl	9.14	172	60249	6.45	ng	-0.02
78) Terphenyl-d14	12.89	244	36759	4.97	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	8.09	128	494930	28.028	ng	99
37) 2-Methylnaphthalene	8.78	142	190552	16.103	ng	97
45) 1,1'-Biphenyl	9.25	154	40731	3.123	ng	96
48) Acenaphthylene	9.69	152	65699	4.503	ng	99
51) Acenaphthene	9.86	154	231919	26.016	ng	98
54) Dibenzofuran	10.03	168	240590	19.120	ng	99
57) Fluorene	10.37	166	340369	32.669	ng	99
70) Phenanthrene	11.34	178	1408457	125.450	ng	99
71) Anthracene	11.39	178	529564	46.468	ng	99
72) Carbazole	11.55	167	151989	14.182	ng	98
74) Fluoranthene	12.54	202	1430529	122.606	ng	97
77) Pylene	12.77	202	1260202	102.444	ng	99
80) Benzo(a)anthracene	13.96	228	715841	69.801	ng	98
82) Chrysene	14.00	228	610114	63.280	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	246876	27.892	ng	97
87) Benzo(b)fluoranthene	15.02	252	726990m	70.182	ng	
88) Benzo(k)fluoranthene	15.04	252	292045m	29.899	ng	
89) Benzo(a)pyrene	15.38	252	538668	57.890	ng	96
90) Dibenzo(a,h)anthracene	16.90	278	63172m	7.640	ng	
91) Benzo(a,h,i)perylene	17.35	276	215472	26.637	ng	# 92

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

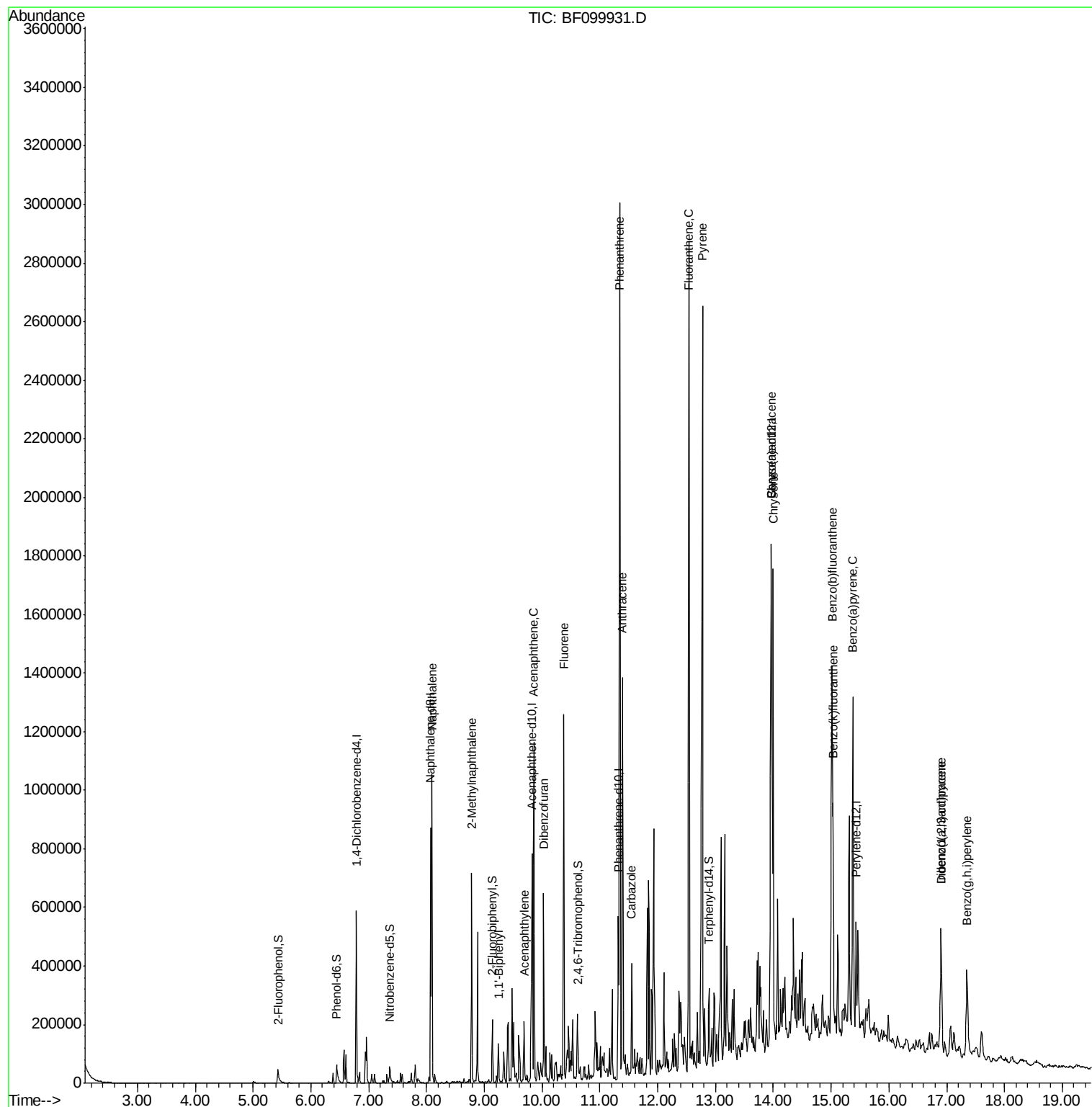
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102817\
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Misc :
ALS Vial : 23 Sample Multiplier: 1

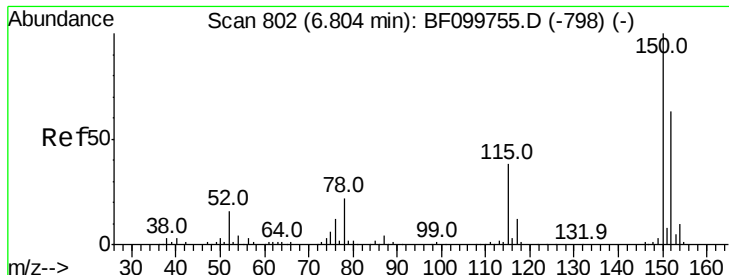
Instrument :
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SU-04-102617

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#1

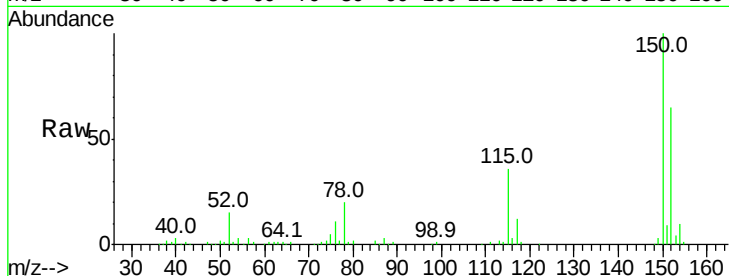
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. -0.01 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Instrument :
BNA_F
ClientSampleId :
SU-04-102617

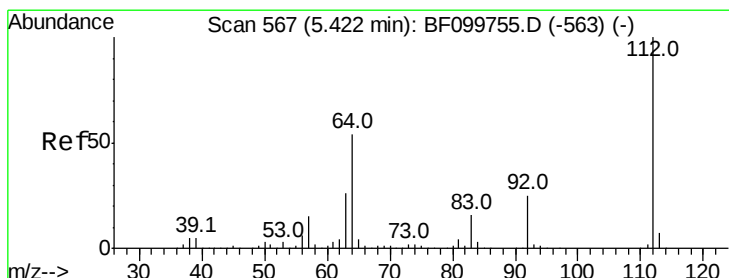
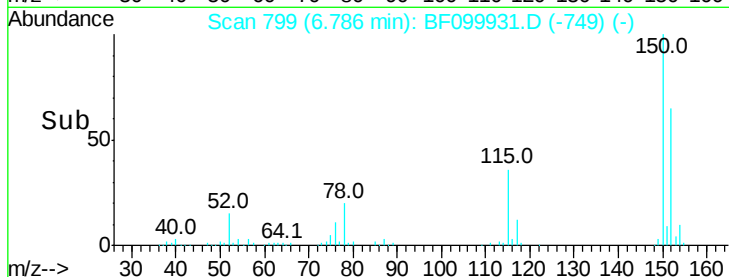
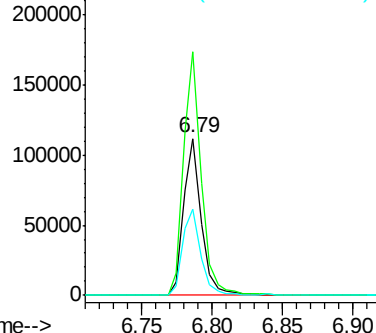
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	124.6	186.8
115	55.0	50.1	75.1

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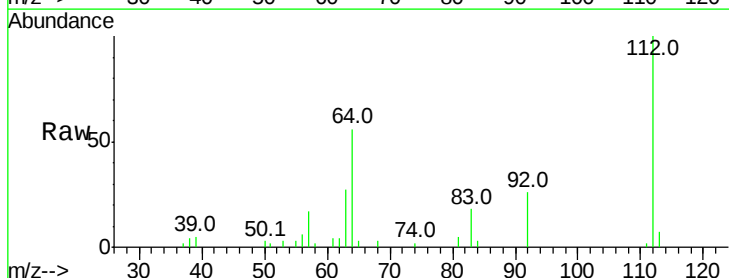
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



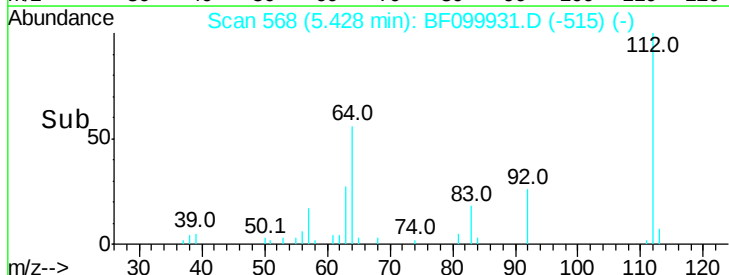
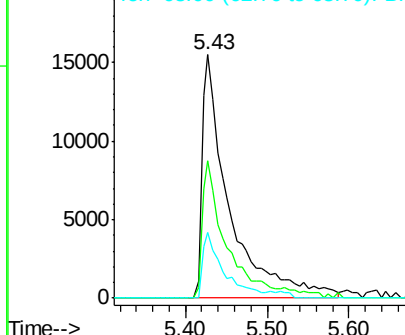
#5

2-Fluorophenol
Concen: 5.801 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	47.9	71.9
63	27.0	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 6.438 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.01 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Instrument :

BNA_F

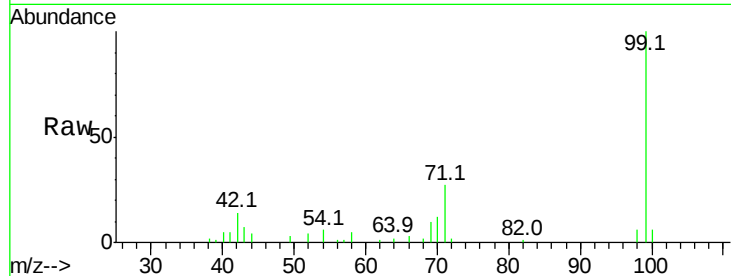
ClientSampleId :

SU-04-102617

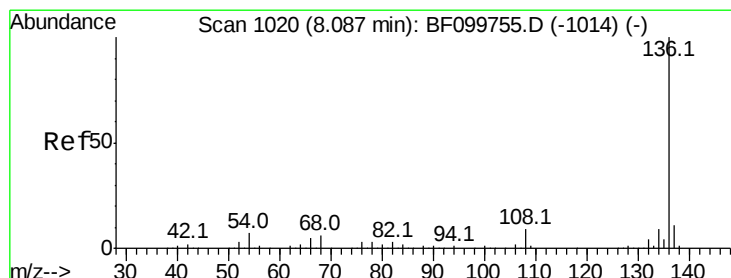
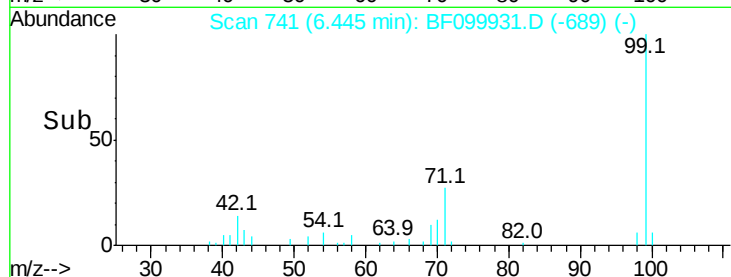
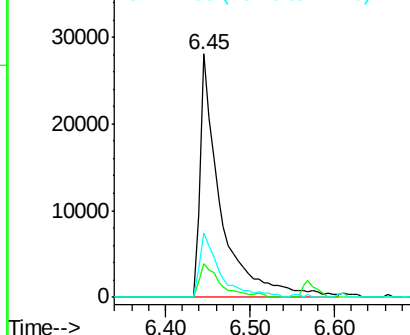
Tot Ion:	99	Resp:	47196
Ion Ratio	Lower	Upper	
99	100		
42	14.1	14.5	21.7#
71	26.6	25.4	38.0

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1017

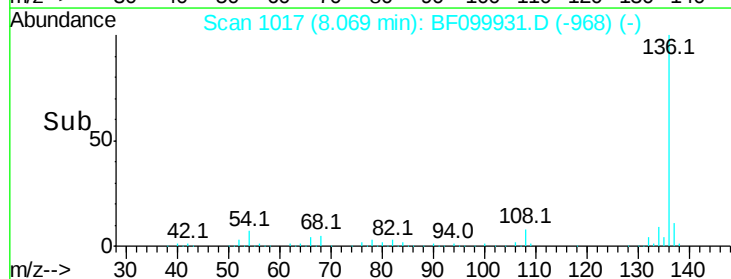
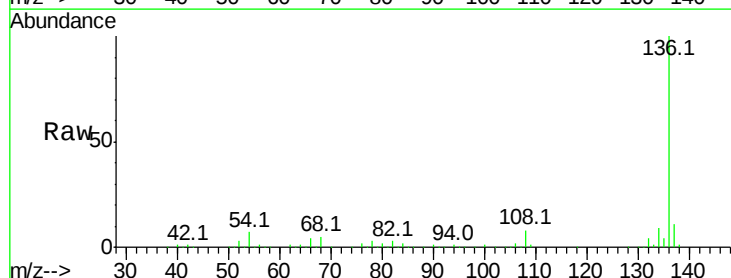
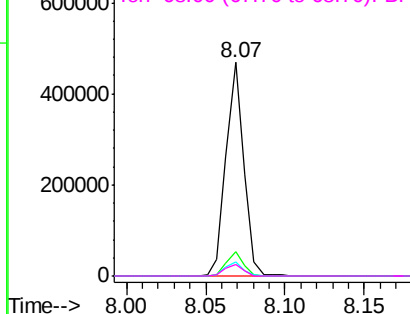
Delta R.T. -0.01 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Tgt Ion:	136	Resp:	365816
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	6.5	6.6	9.8#
68	5.5	5.0	7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





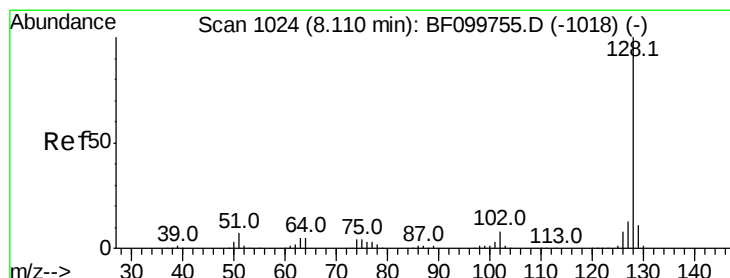
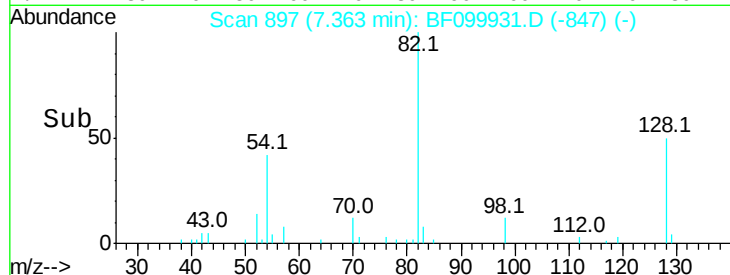
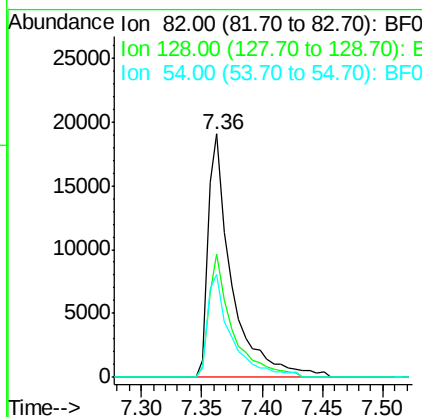
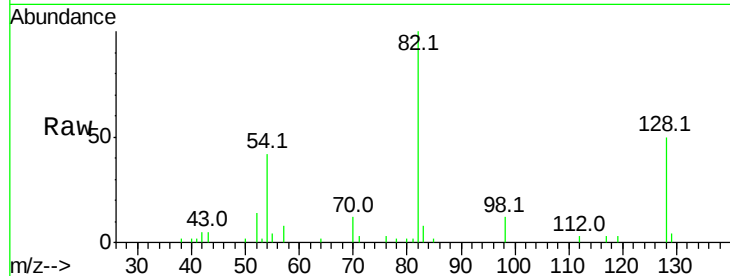
#23
Nitrobenzene-d5
Concen: 4.523 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Instrument :
BNA_F
ClientSampleId :
SU-04-102617

Tot Ion	Ratio	Lower	Upper
82	100		
128	50.4	36.1	54.1
54	42.5	41.4	62.2

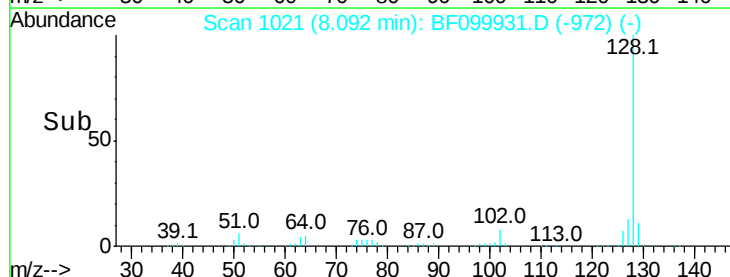
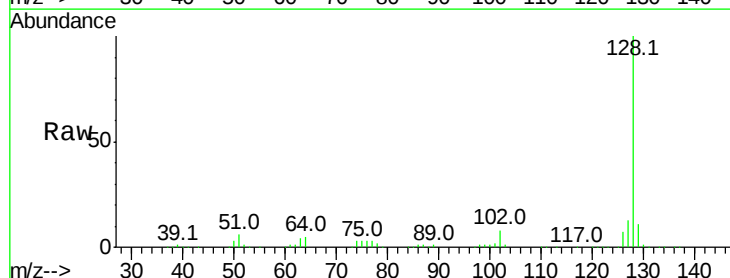
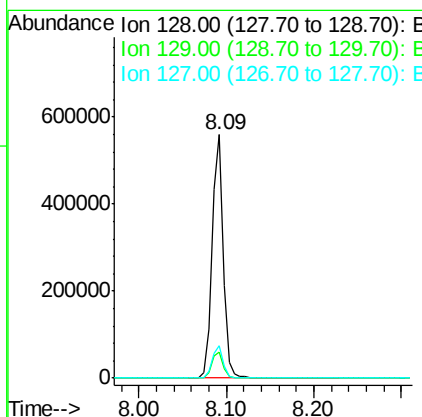
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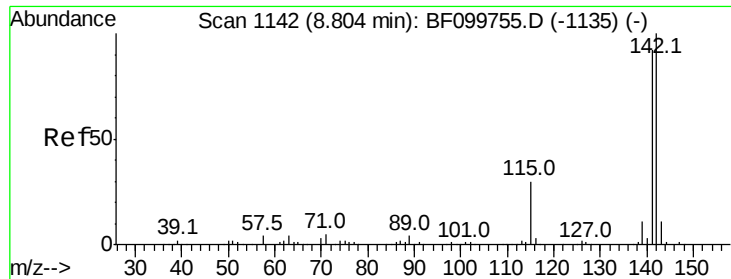
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#31
Naphthalene
Concen: 28.028 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.2	10.9	16.3





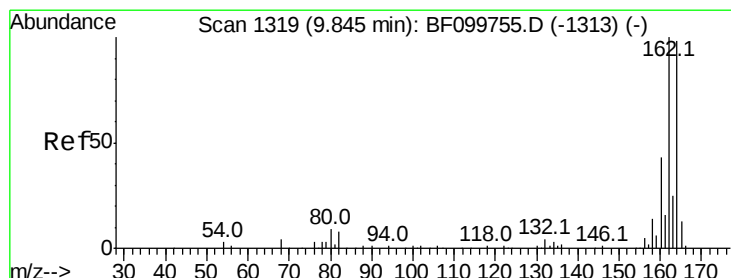
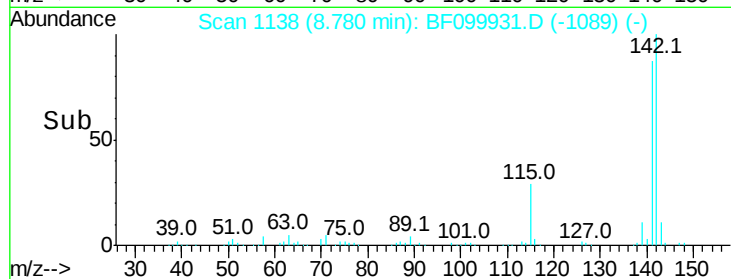
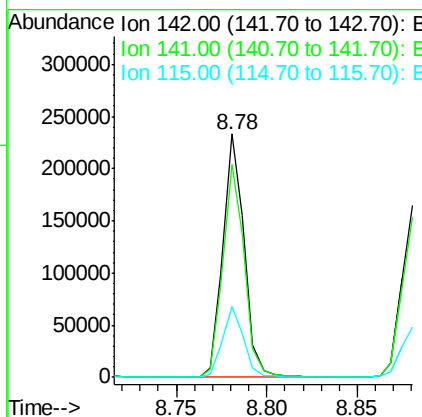
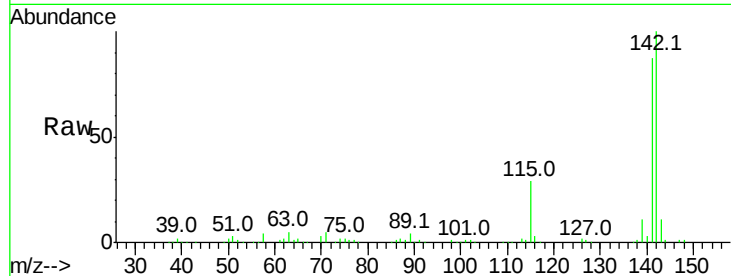
#37
2-Methylnaphthalene
Concen: 16.103 ng
RT: 8.78 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Instrument :
BNA_F
ClientSampleId :
SU-04-102617

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.3	70.8	106.2
115	28.9	26.1	39.1

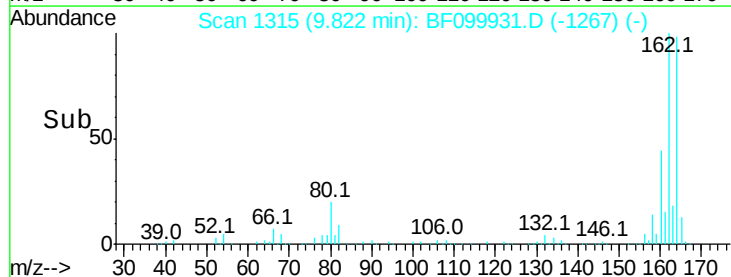
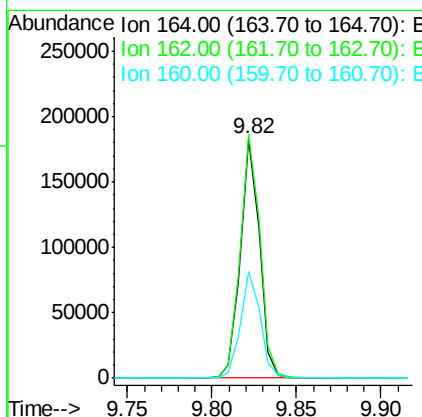
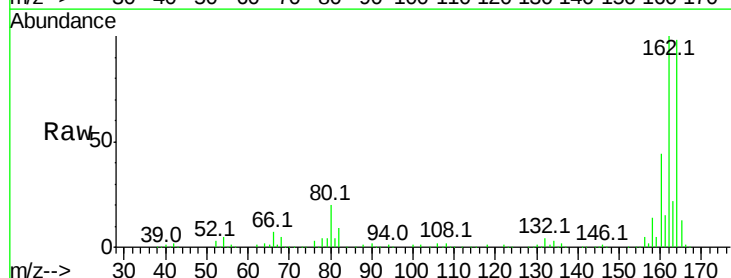
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1315
Delta R.T. -0.02 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	86.1	129.1
160	44.7	38.3	57.5





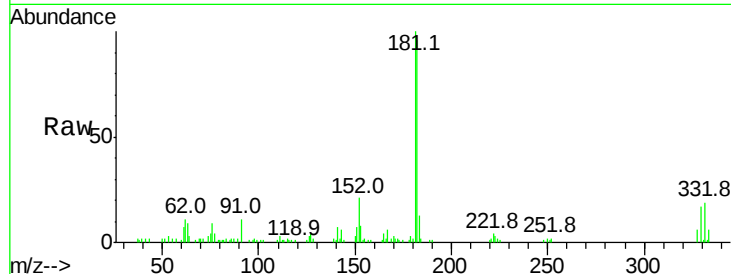
#41
 2,4,6-Tribromophenol
 Concen: 4.447 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. -0.02 min
 Lab File: BF099931.D
 Acq: 28 Oct 2017 21:42

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-102617

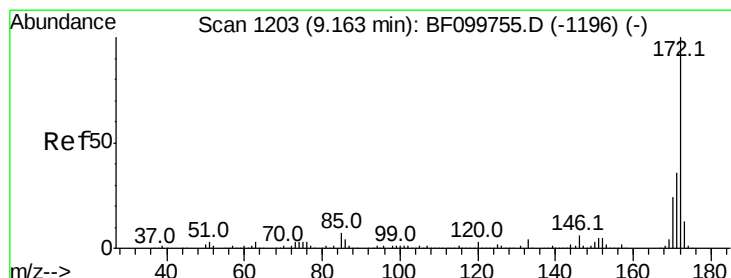
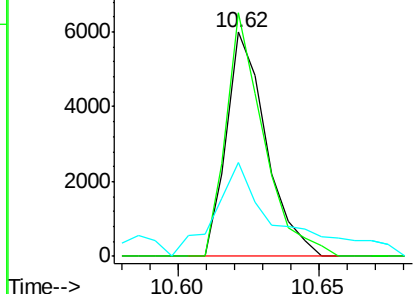
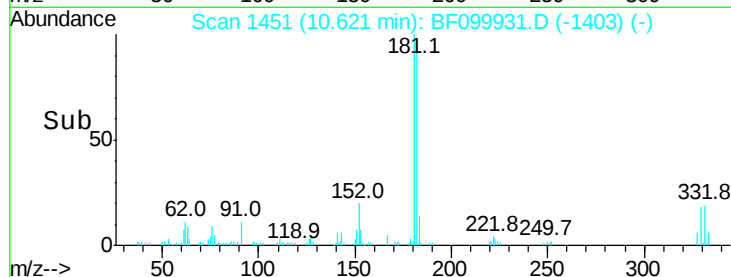
Tot Ion	Ratio	Lower	Upper
330	100		
332	103.1	77.0	115.6
141	67.6	29.9	44.9

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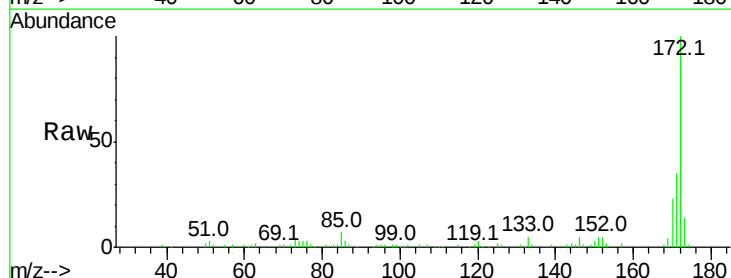


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

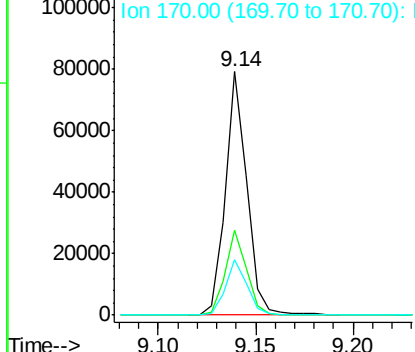
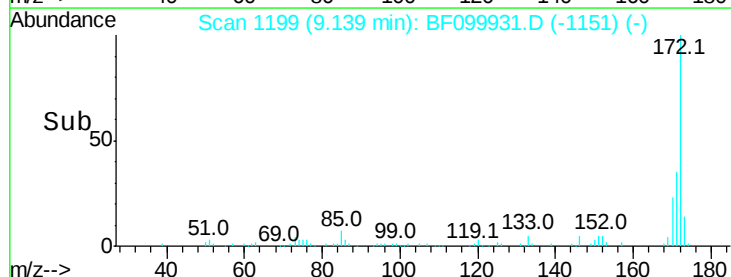


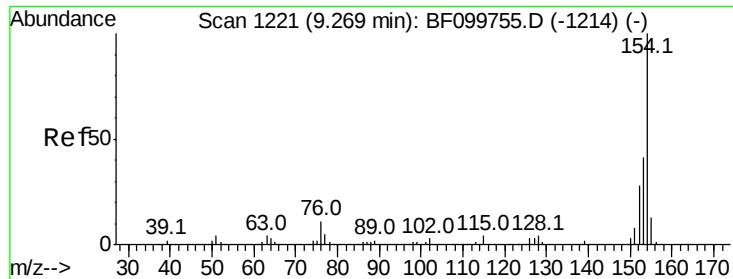
#44
 2-Fluorobiphenyl
 Concen: 6.447 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: BF099931.D
 Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.7	44.5
170	22.8	19.6	29.4



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





#45

1,1'-Biphenyl

Concen: 3.123 ng

RT: 9.25 min Scan# 1217

Delta R.T. -0.02 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Instrument :

BNA_F

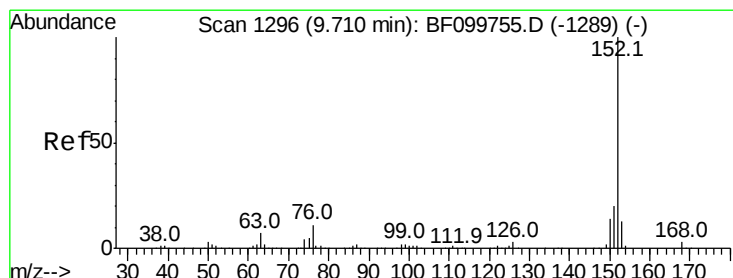
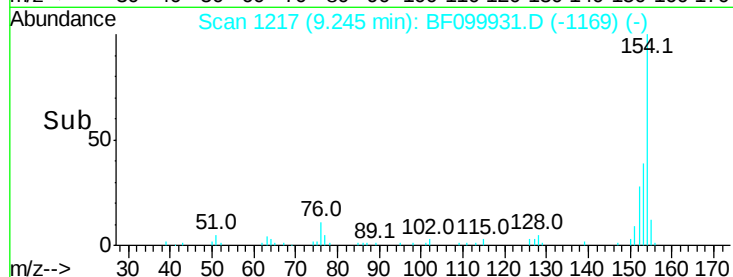
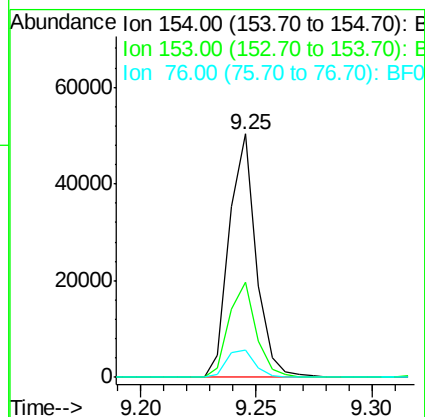
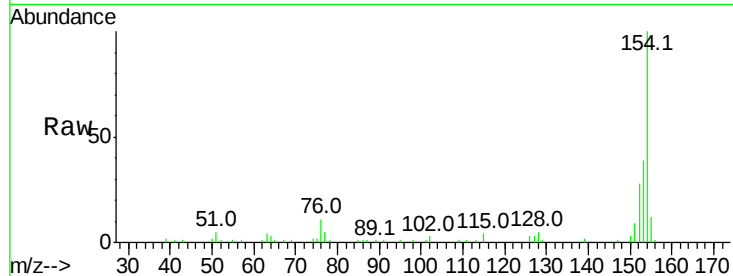
ClientSampleId :

SU-04-102617

Tot Ion:	154	Resp:	40731
Ion Ratio	Lower	Upper	
154	100		
153	39.2	21.3	61.3
76	11.0	0.0	34.0

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#48

Acenaphthylene

Concen: 4.503 ng

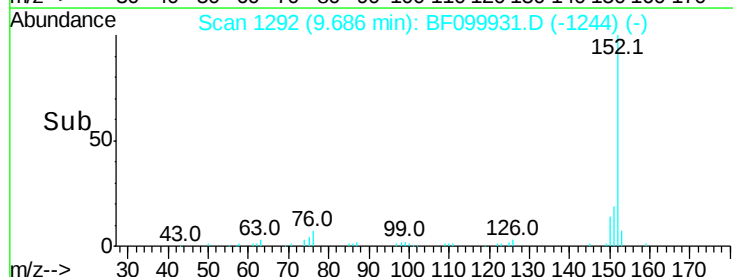
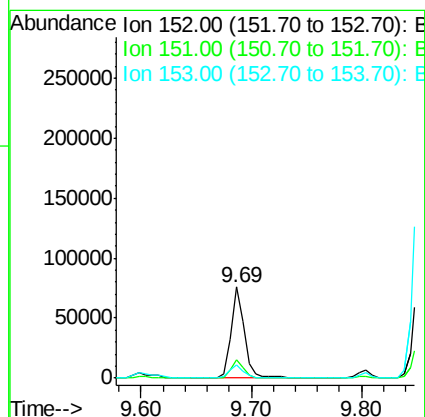
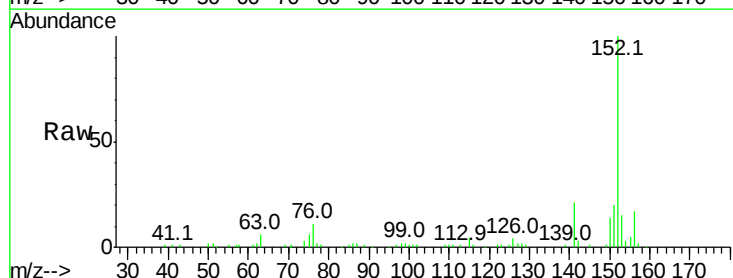
RT: 9.69 min Scan# 1292

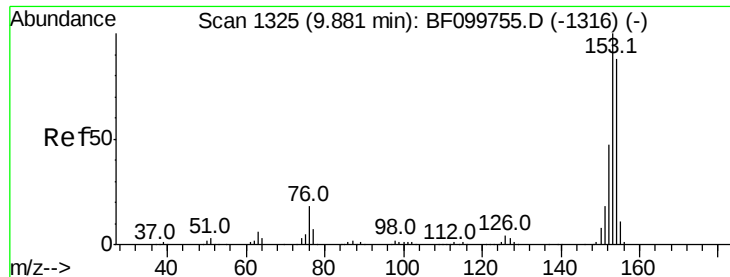
Delta R.T. -0.02 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Tgt Ion:	152	Resp:	65699
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.3	24.5
153	14.7	10.7	16.1





#51

Acenaphthene

Concen: 26.016 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.02 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Instrument :

BNA_F

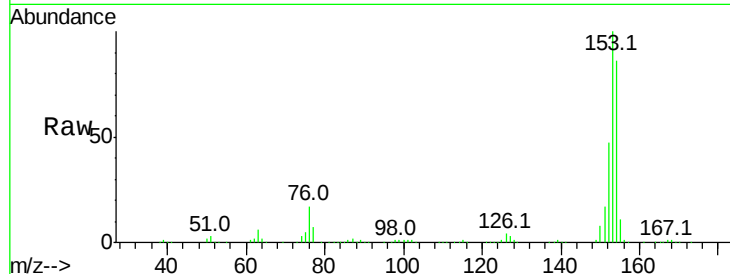
ClientSampleId :

SU-04-102617

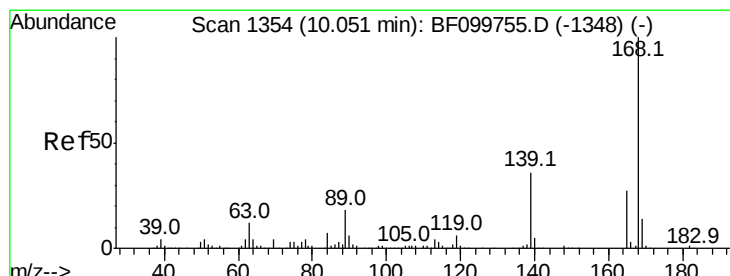
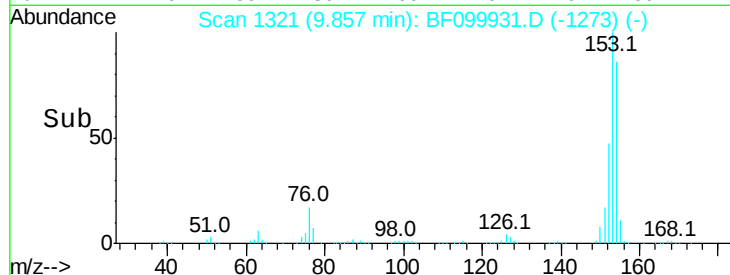
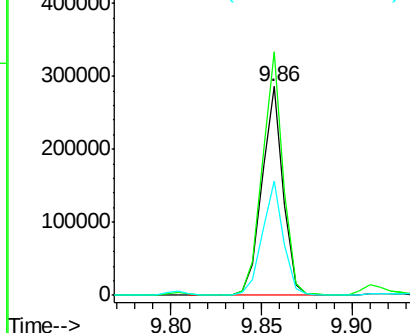
Tot Ion:	154	Resp:	231919
Ion Ratio	Lower	Upper	
154	100		
153	116.6	91.2	136.8
152	54.8	43.8	65.8

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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



#54

Dibenzofuran

Concen: 19.120 ng

RT: 10.03 min Scan# 1350

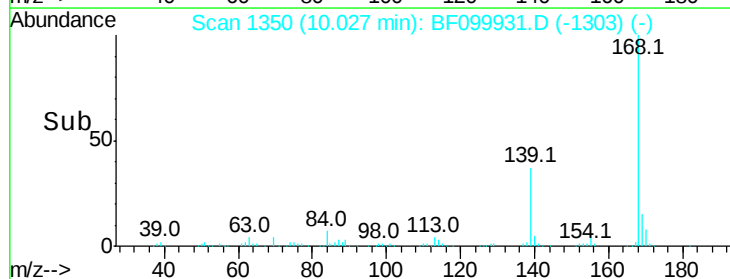
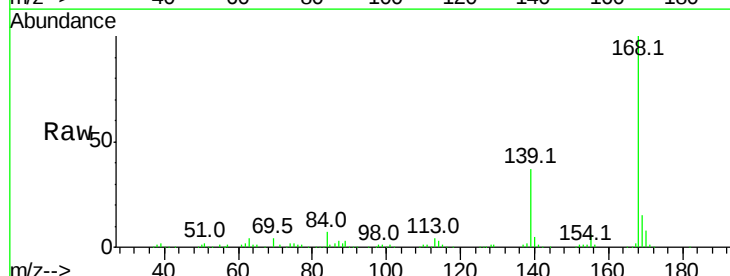
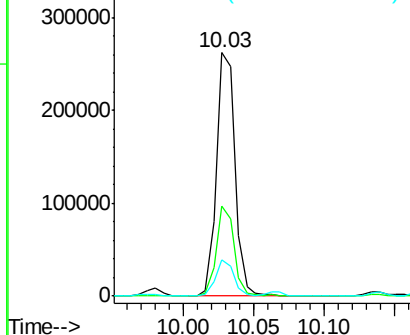
Delta R.T. -0.02 min

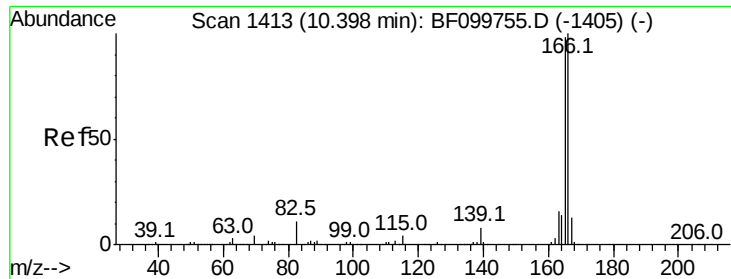
Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Tgt Ion:	168	Resp:	240590
Ion Ratio	Lower	Upper	
168	100		
139	37.1	30.1	45.1
169	15.0	10.9	16.3

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





#57

Fluorene

Concen: 32.669 ng

RT: 10.37 min Scan# 1409

Delta R.T. -0.02 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Instrument :

BNA_F

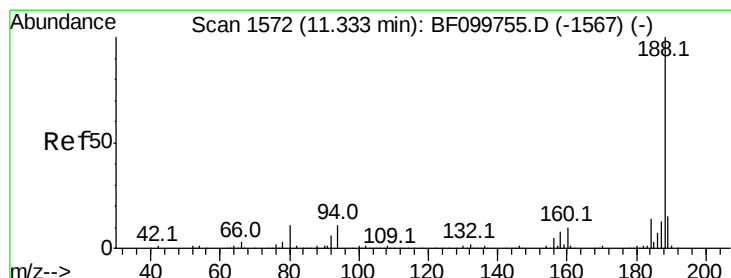
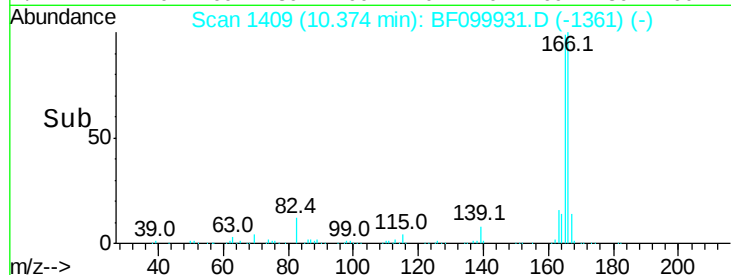
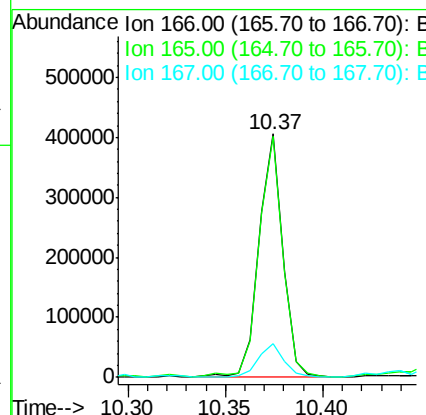
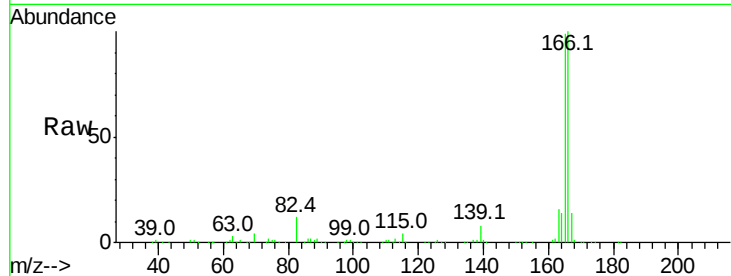
ClientSampleId :

SU-04-102617

Tot Ion:	166	Resp:	340369
Ion Ratio	Lower	Upper	
166	100		
165	98.8	79.8	119.8
167	13.9	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

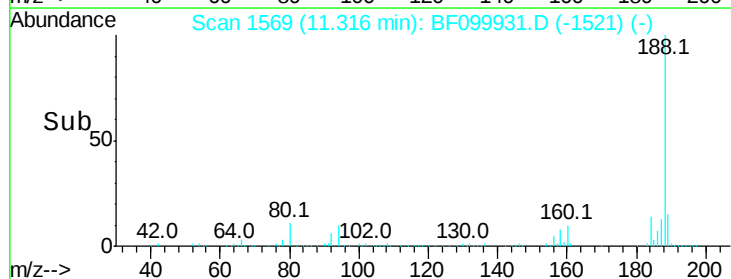
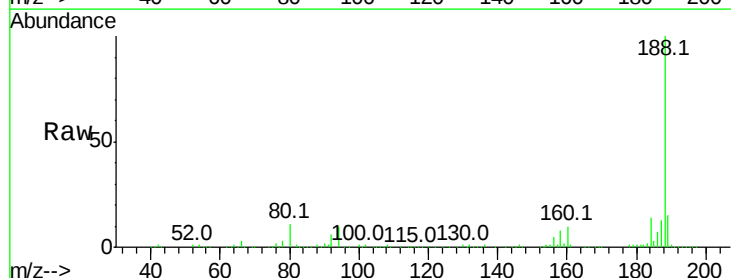
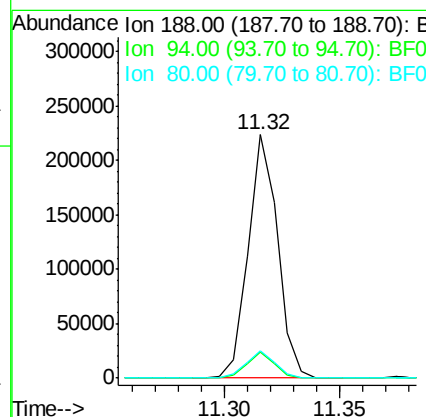
RT: 11.32 min Scan# 1569

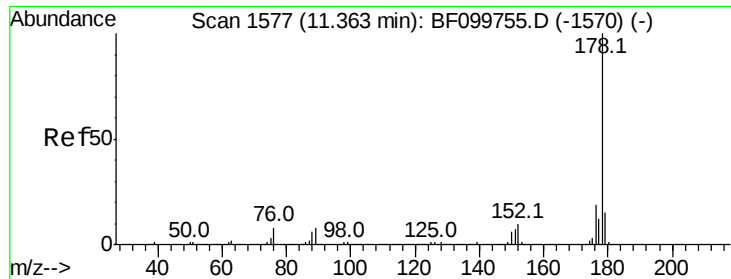
Delta R.T. -0.02 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Tgt Ion:	188	Resp:	198942
Ion Ratio	Lower	Upper	
188	100		
94	10.5	8.5	12.7
80	11.0	9.2	13.8





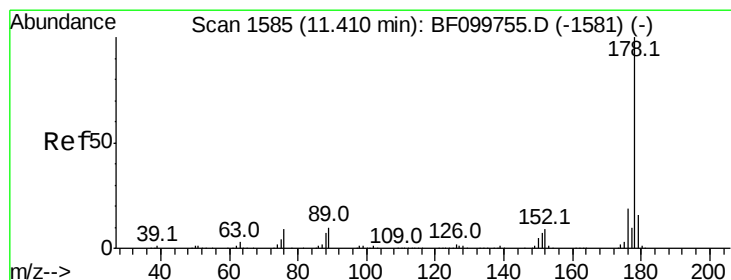
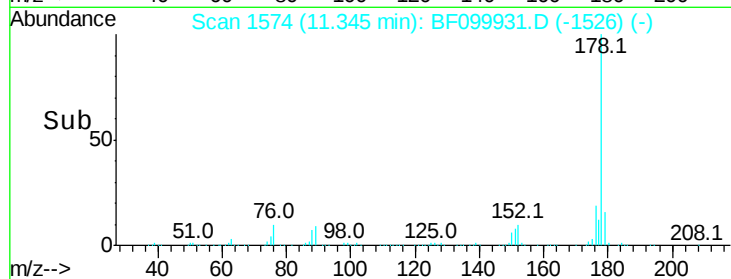
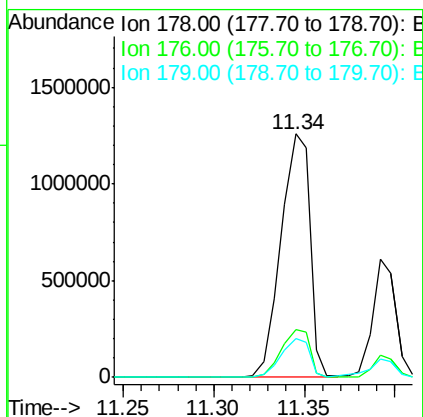
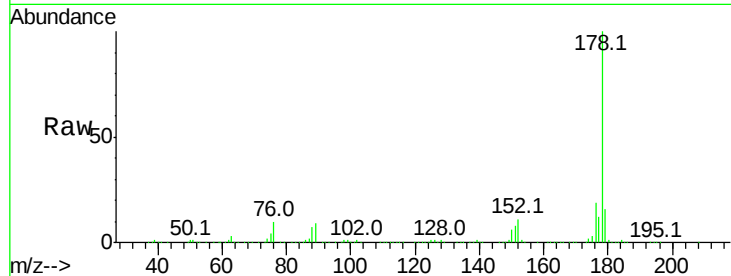
#70
Phenanthrene
Concen: 125.450 ng
RT: 11.34 min Scan# 1574
Delta R.T. -0.02 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Instrument :
BNA_F
ClientSampleId :
SU-04-102617

Tot Ion:178 Resp: 1408457
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 15.8 13.0 19.6

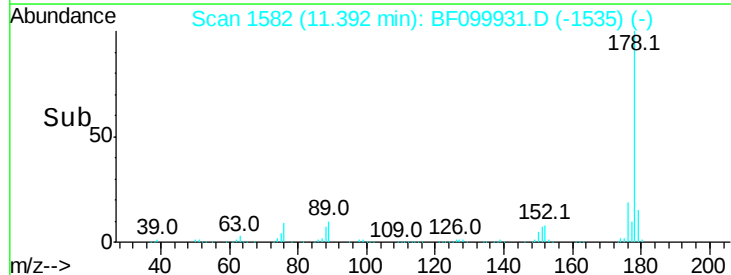
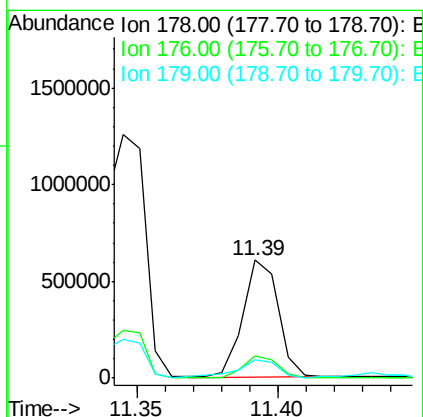
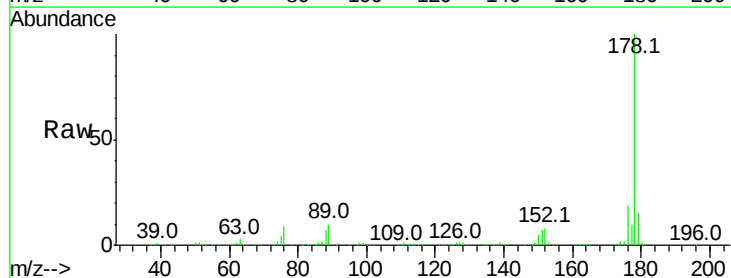
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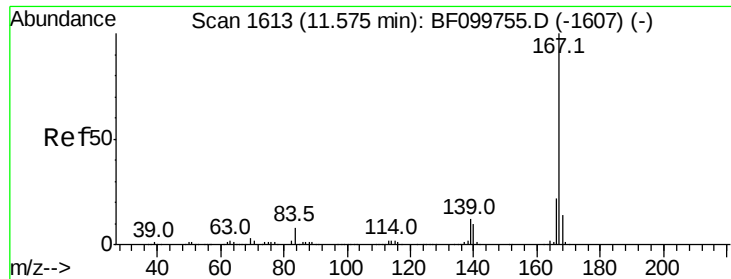
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#71
Anthracene
Concen: 46.468 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.02 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Tgt Ion:178 Resp: 529564
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.2
179 15.5 12.6 19.0





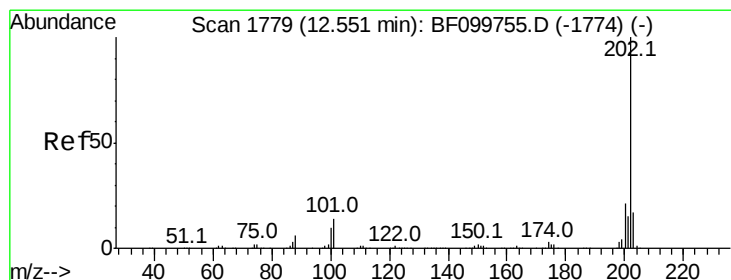
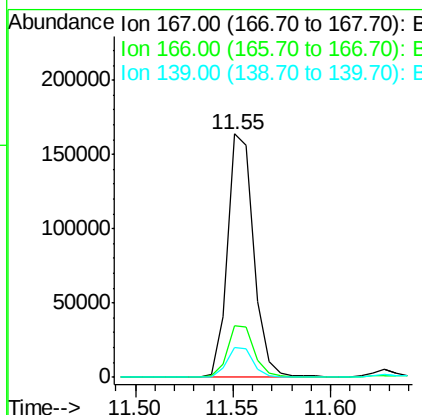
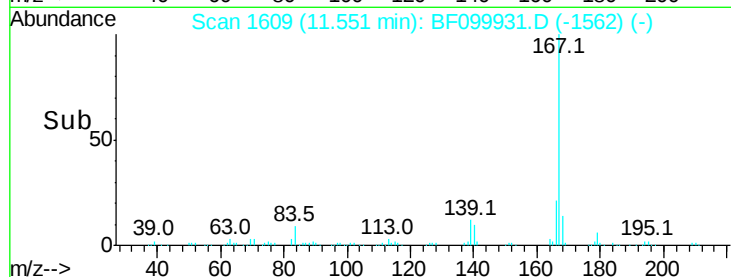
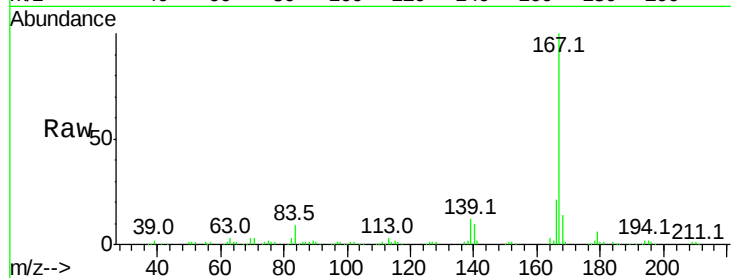
#72
 Carbazole
 Concen: 14.182 ng
 RT: 11.55 min Scan# 1609
 Delta R.T. -0.02 min
 Lab File: BF099931.D
 Acq: 28 Oct 2017 21:42

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-102617

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.6	26.4
139	12.3	10.9	16.3

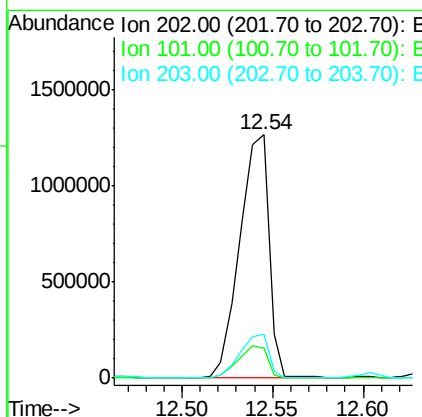
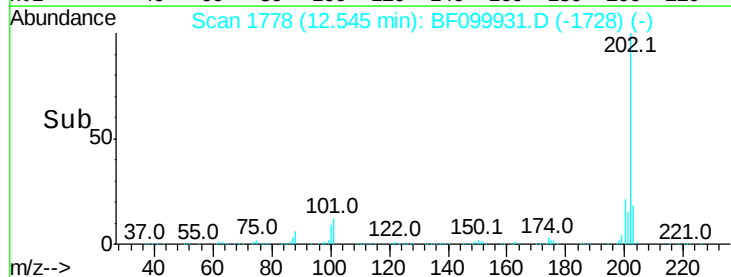
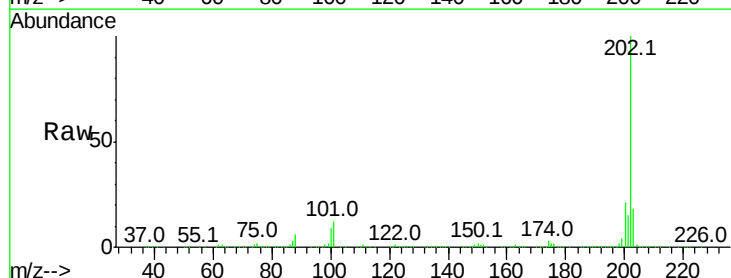
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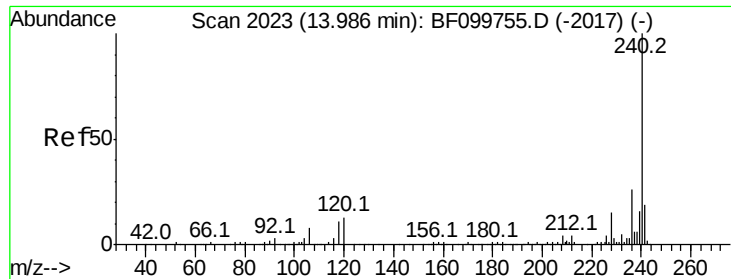
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#74
 Fluoranthene
 Concen: 122.606 ng
 RT: 12.54 min Scan# 1778
 Delta R.T. -0.01 min
 Lab File: BF099931.D
 Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.02 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Instrument :

BNA_F

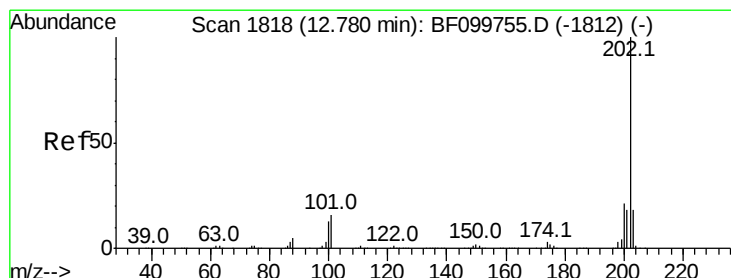
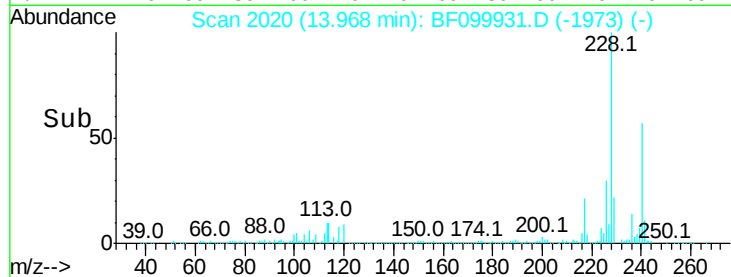
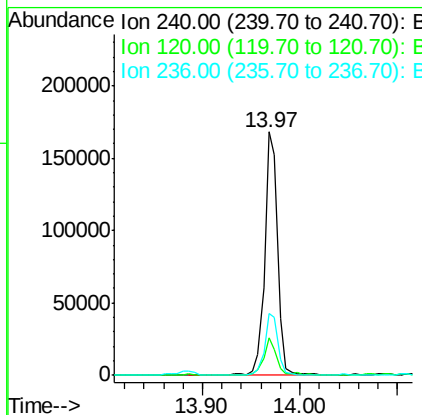
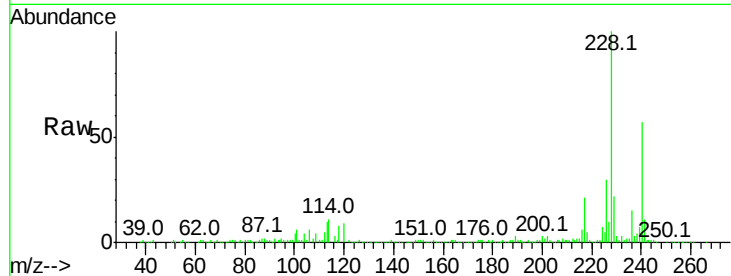
ClientSampleId :

SU-04-102617

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.3	9.5	14.3#
236	25.6	20.7	31.1

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#77

Pyrene

Concen: 102.444 ng

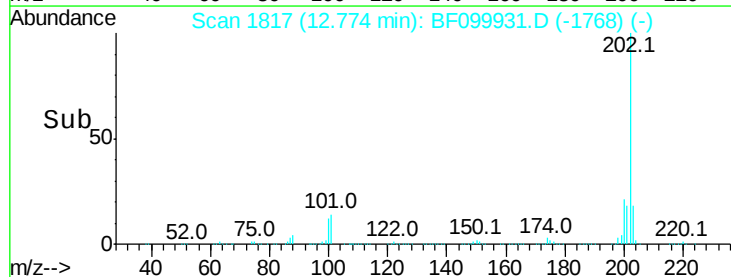
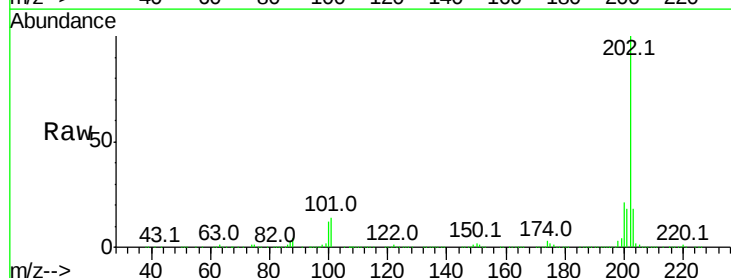
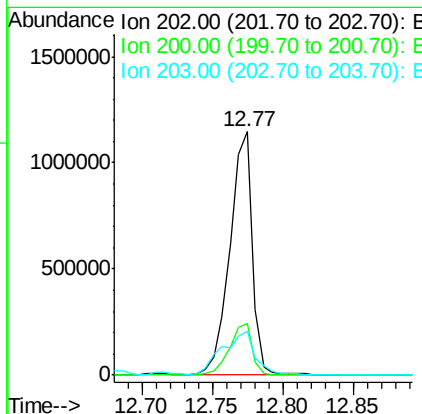
RT: 12.77 min Scan# 1817

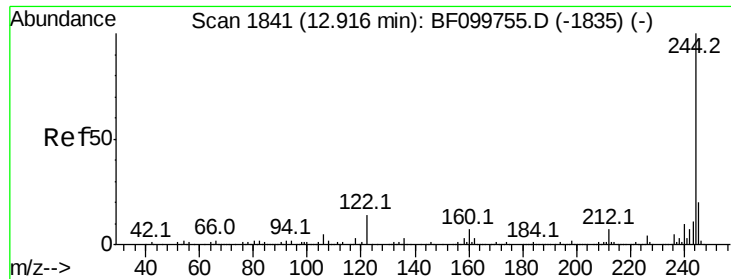
Delta R.T. -0.01 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.2
203	18.1	14.3	21.5





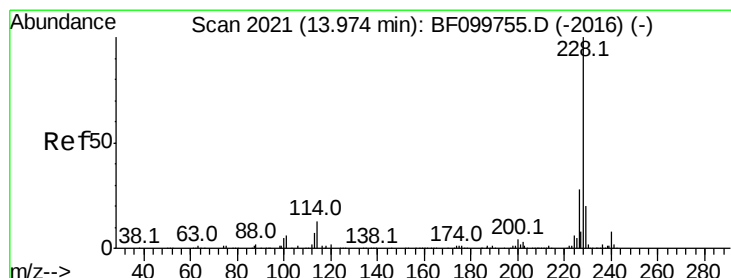
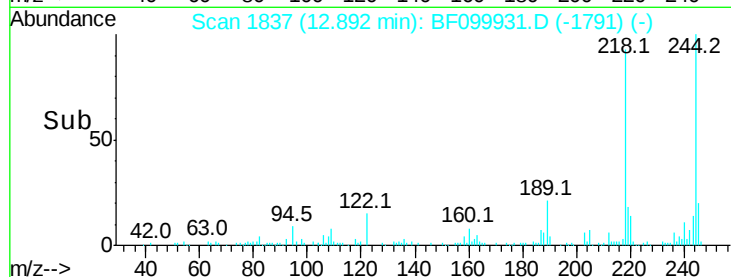
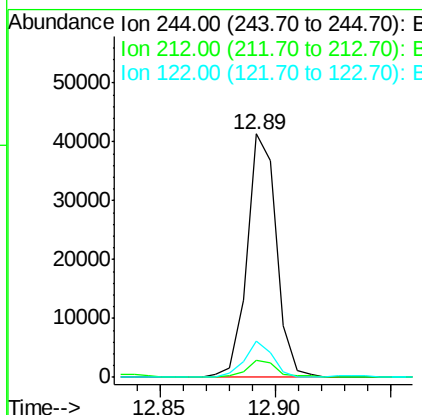
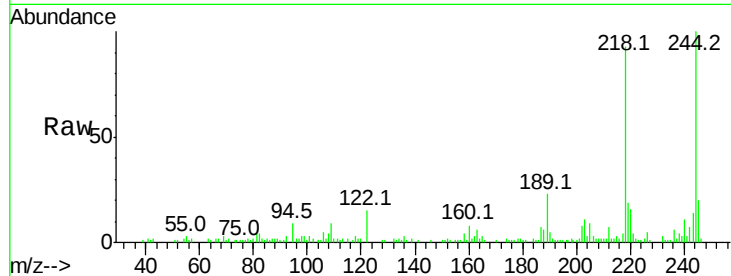
#78
 Terphenyl-d14
 Concen: 4.966 ng
 RT: 12.89 min Scan# 1837
 Delta R.T. -0.03 min
 Lab File: BF099931.D
 Acq: 28 Oct 2017 21:42

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-102617

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.0
122	15.0	11.0	16.4

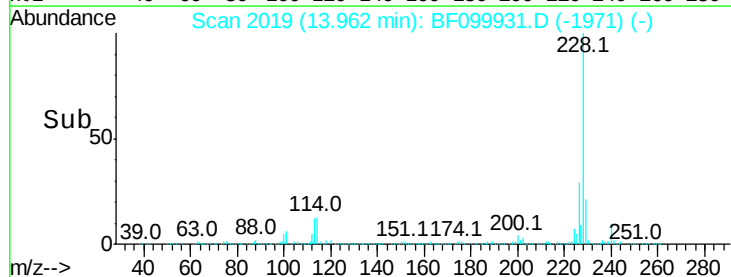
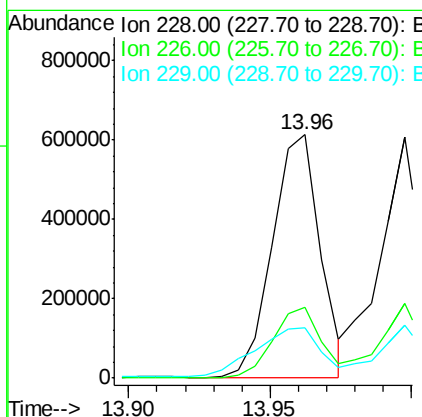
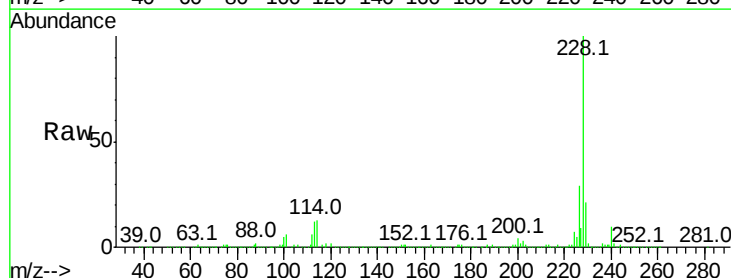
Manual Integrations
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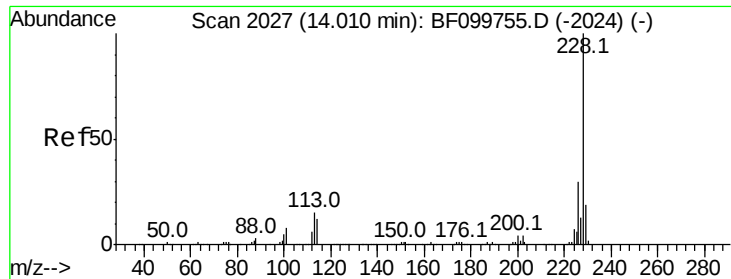
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#80
 Benzo(a)anthracene
 Concen: 69.801 ng
 RT: 13.96 min Scan# 2019
 Delta R.T. -0.02 min
 Lab File: BF099931.D
 Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	33.8
229	20.8	15.8	23.6





#82

Chrysene

Concen: 63.280 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.02 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Instrument :

BNA_F

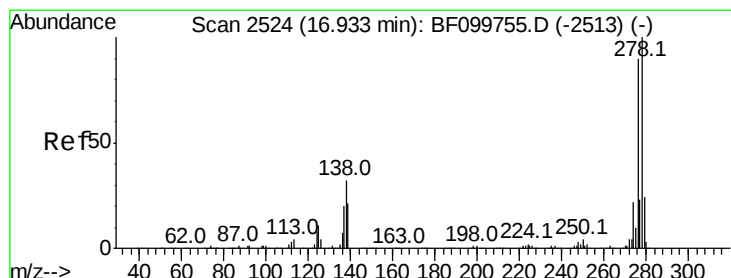
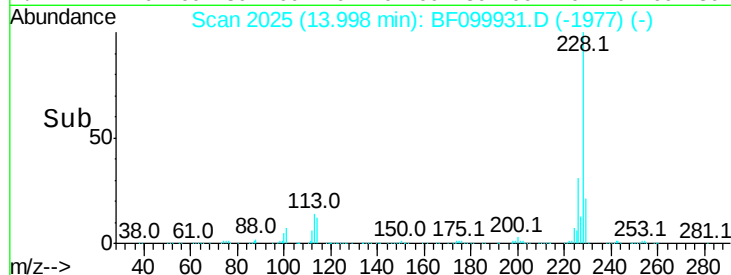
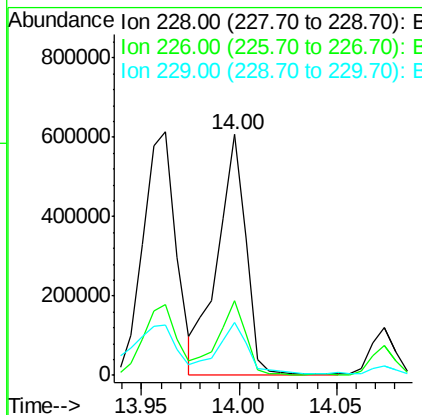
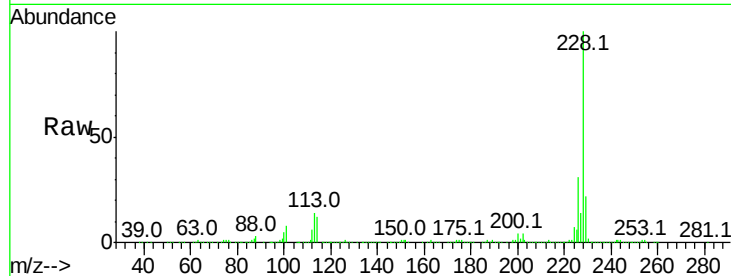
ClientSampleId :

SU-04-102617

Tot Ion:	228	Resp:	610114
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.6
229	22.2	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 27.892 ng

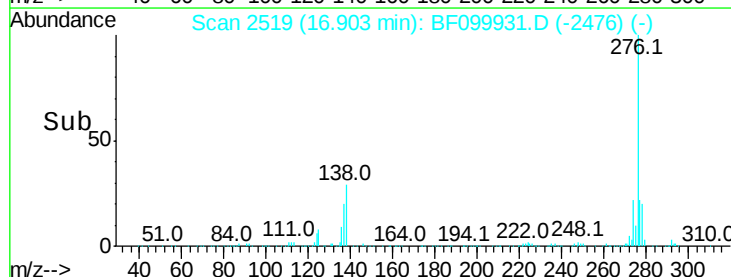
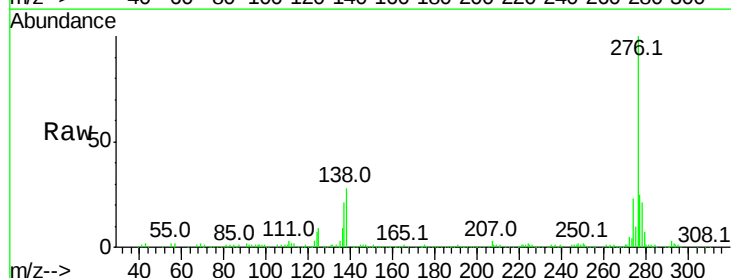
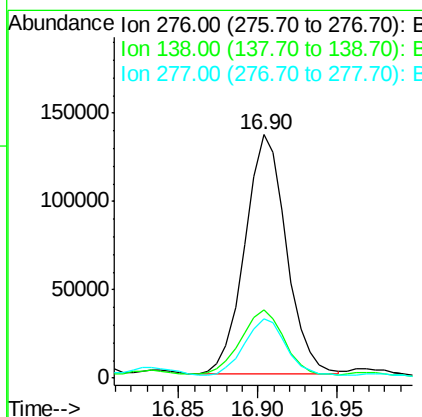
RT: 16.90 min Scan# 2519

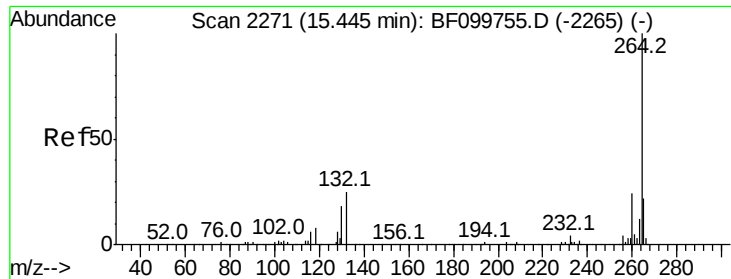
Delta R.T. -0.05 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Tgt Ion:	276	Resp:	246876
Ion Ratio	Lower	Upper	
276	100		
138	29.6	25.0	37.6
277	23.8	20.1	30.1





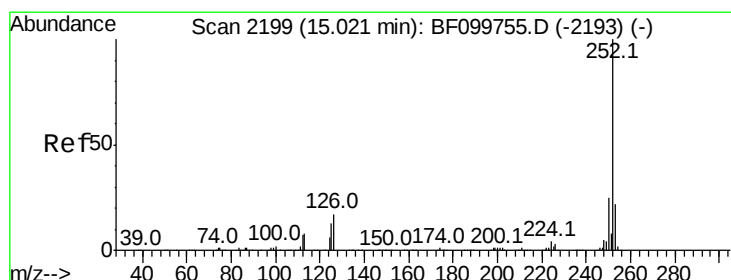
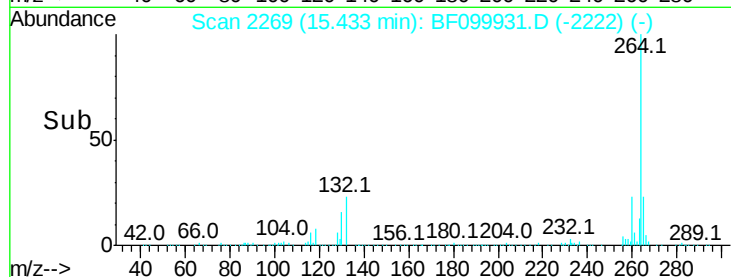
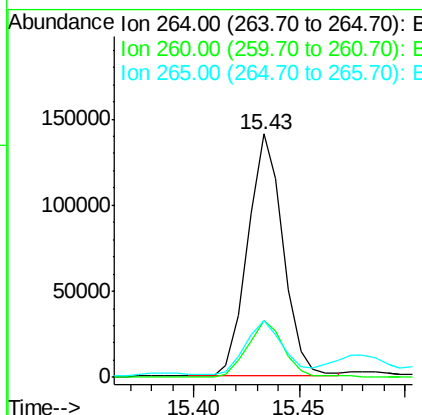
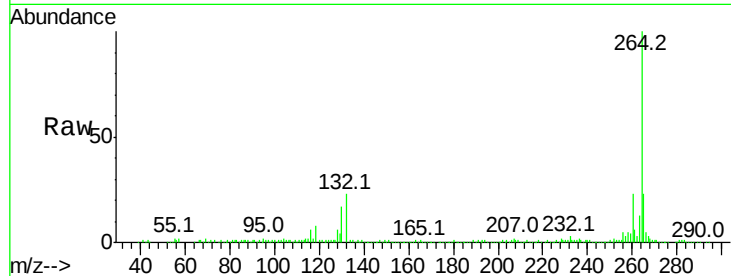
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.02 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Instrument :
BNA_F
ClientSampleId :
SU-04-102617

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	23.1	17.5	26.3

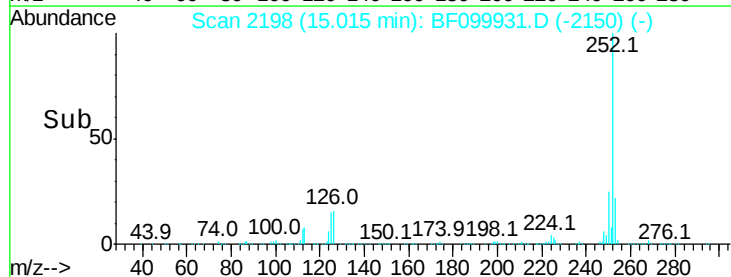
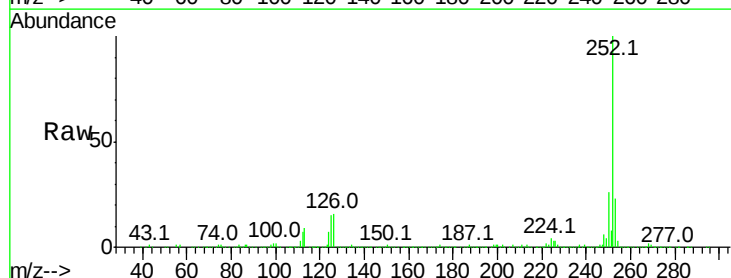
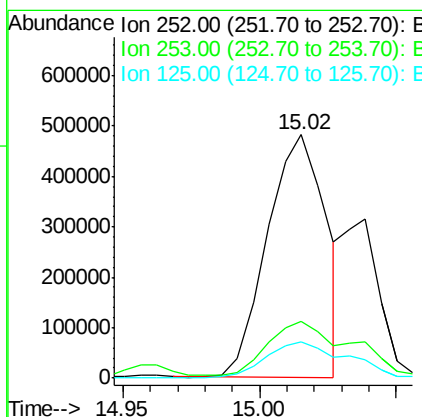
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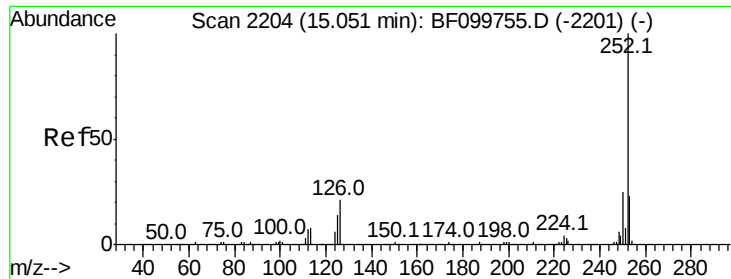
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#87
Benzo(b)fluoranthene
Concen: 70.182 ng m
RT: 15.02 min Scan# 2198
Delta R.T. -0.02 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	15.0	9.0	13.6





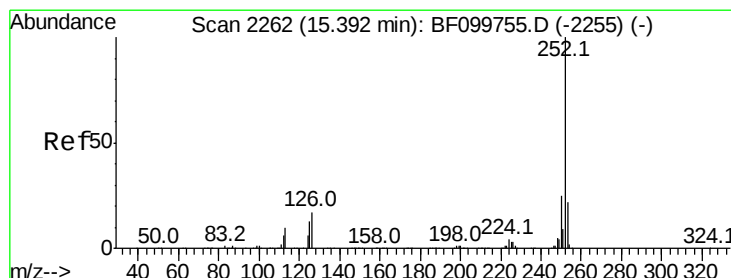
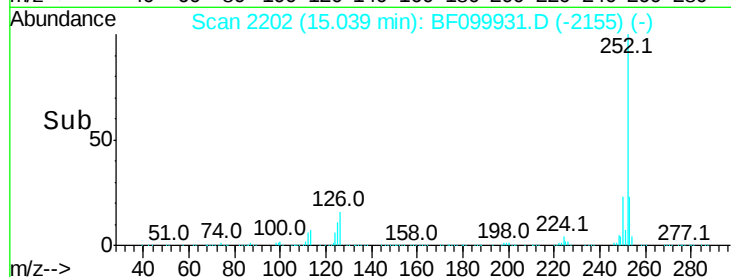
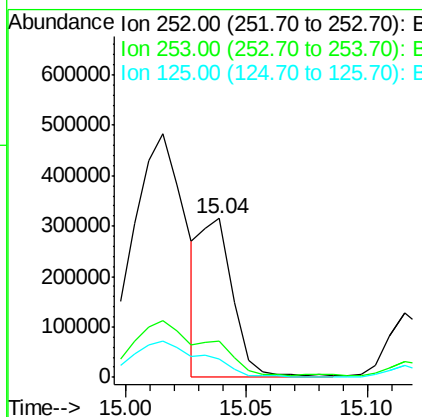
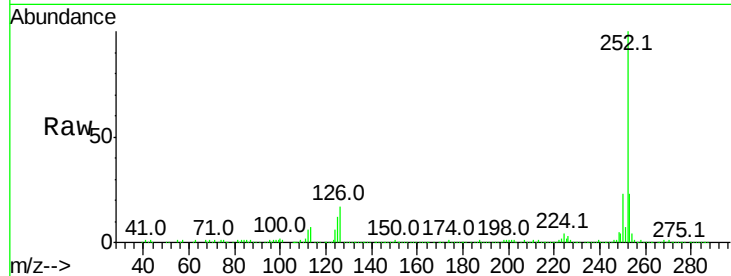
#88
Benzo(k)fluoranthene
Concen: 29.899 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Instrument :
BNA_F
ClientSampleId :
SU-04-102617

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	11.8	10.2	15.2

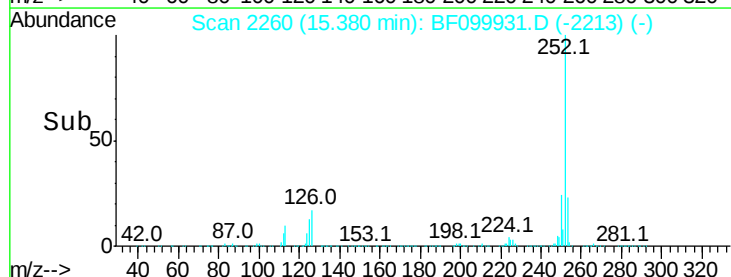
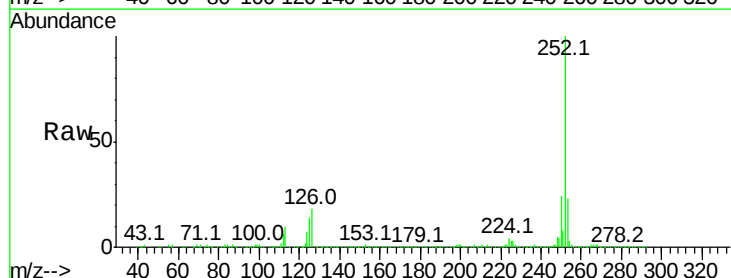
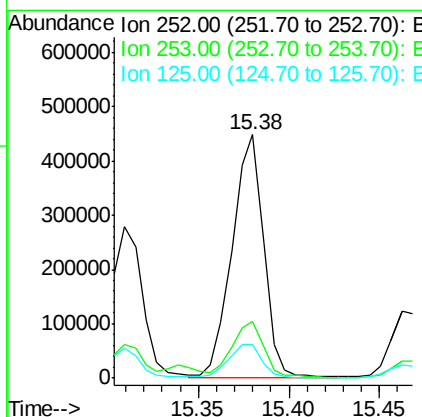
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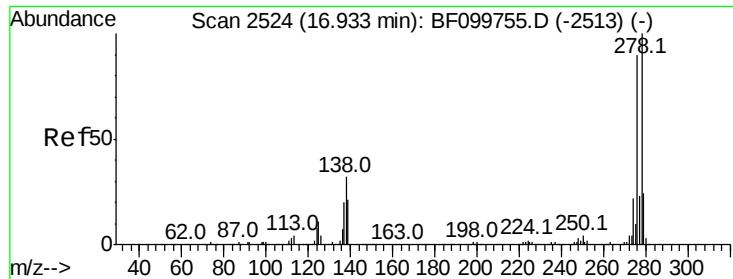
Sohil
10/30/2017 6:20:38 PM



#89
Benzo(a)pyrene
Concen: 57.890 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.02 min
Lab File: BF099931.D
Acq: 28 Oct 2017 21:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	14.0	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 7.640 ng/mL

RT: 16.90 min Scan# 2518

Delta R.T. -0.05 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Instrument :

BNA_F

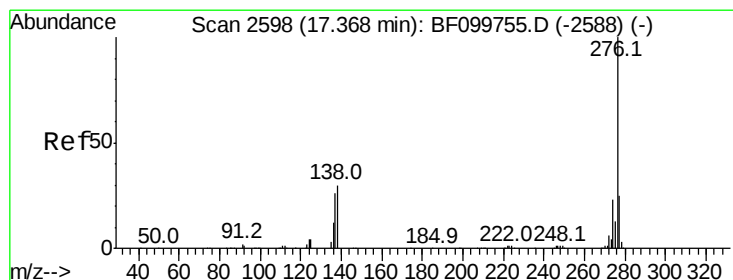
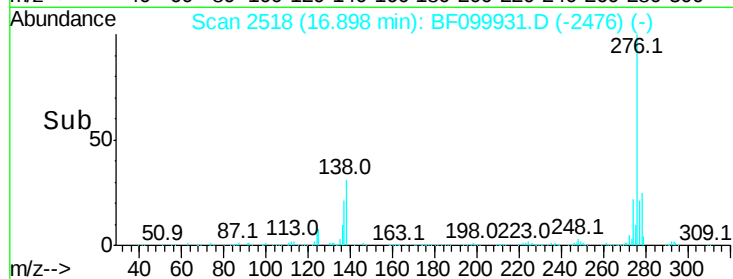
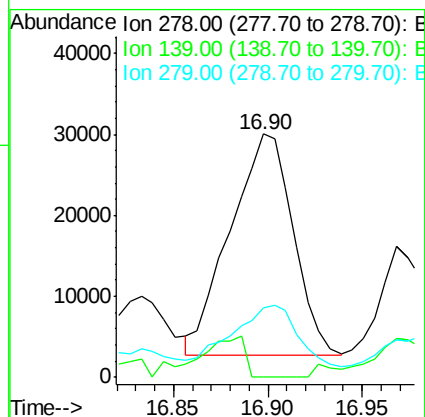
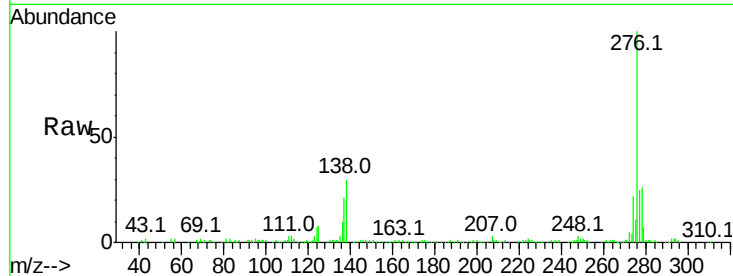
ClientSampleId :

SU-04-102617

Tot Ion:	278	Resp:	63172
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	28.3	19.0	28.4

Manual Integrations
APPROVED

Sohil
10/30/2017 6:20:38 PM



#91

Benzo(g,h,i)perylene

Concen: 26.637 ng/mL

RT: 17.35 min Scan# 2595

Delta R.T. -0.05 min

Lab File: BF099931.D

Acq: 28 Oct 2017 21:42

Tgt Ion:	276	Resp:	215472
Ion Ratio	Lower	Upper	
276	100		
277	27.0	17.9	26.9#
138	30.7	21.8	32.8

