

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052916\
 Data File : BF087576.D
 Acq On : 31 May 2016 6:11
 Operator : UM/SJ
 Sample : H3211-04DL 10X
 Misc :
 ALS Vial : 94 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TA-1304-(0-4)DL

Manual Integrations
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Quant Time: May 31 14:06:59 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 16:26:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.47	152	98942	20.00	ng	-0.05
21) Naphthalene-d8	9.51	136	405264	20.00	ng	-0.05
38) Acenaphthene-d10	12.33	164	173256	20.00	ng	-0.06
63) Phenanthrene-d10	14.74	188	280003	20.00	ng	-0.03
75) Chrysene-d12	18.46	240	224510	20.00	ng	-0.02
86) Perylene-d12	20.15	264	178192	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	37972m	6.74	ng	0.15
7) Phenol-d6	7.14	99	59799m	7.86	ng	0.07
23) Nitrobenzene-d5	8.50	82	32038	3.98	ng	0.06
41) 2,4,6-Tribromophenol	13.68	330	9225	5.54	ng	0.00
44) 2-Fluorobiphenyl	11.29	172	84409	6.87	ng	-0.05
78) Terphenyl-d14	17.10	244	57053	5.40	ng	-0.03
Target Compounds						Qvalue
48) Acenaphthylene	12.13	152	51966	2.94	ng	97
70) Phenanthrene	14.80	178	65010	4.19	ng	99
74) Fluoranthene	16.56	202	205706	13.23	ng	92
77) Pyrene	16.87	202	209817	12.98	ng	99
80) Benzo(a)anthracene	18.45	228	159370	12.48	ng	100
82) Chrysene	18.50	228	126112	9.95	ng	97
85) Indeno(1,2,3-cd)pyrene	21.45	276	86303m	8.49	ng	
87) Benzo(b)fluoranthene	19.75	252	200851m	17.69	ng	
88) Benzo(k)fluoranthene	19.78	252	78832m	8.07	ng	
89) Benzo(a)pyrene	20.10	252	123080	12.54	ng	95
90) Dibenzo(a,h)anthracene	21.44	278	19224	2.30	ng	95
91) Benzo(a,h,i)perylene	21.82	276	84883m	10.27	ng	

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

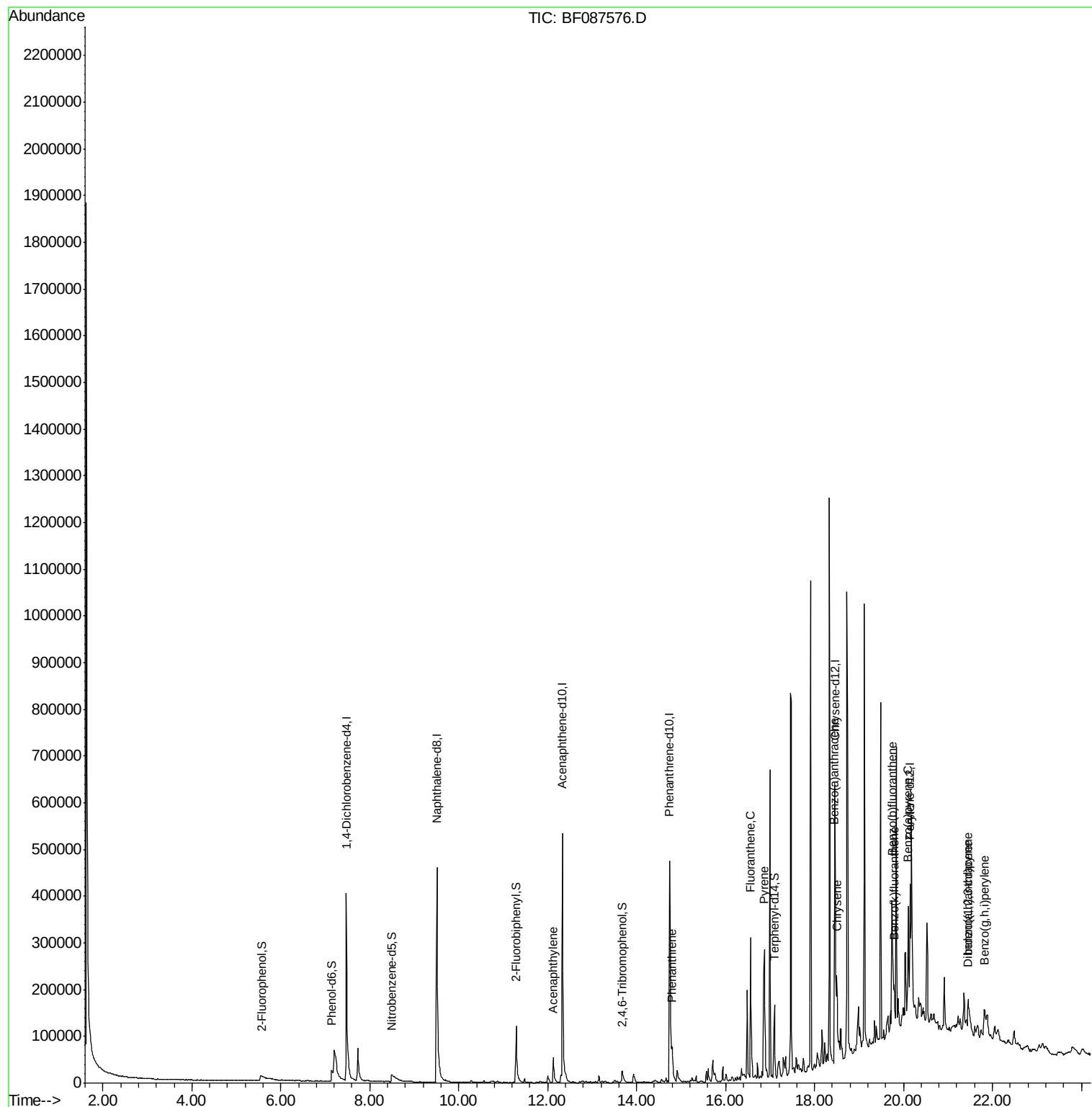
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052916\
Data File : BF087576.D
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Operator : UM/SJ
Sample : H3211-04DL 10X
Misc :
ALS Vial : 94 Sample Multiplier: 1

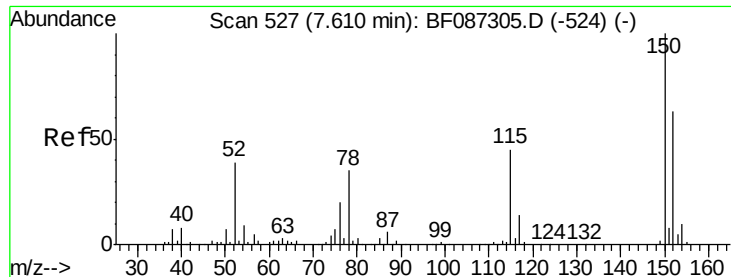
Instrument :
BNA_F
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TA-1304-(0-4)DL

Manual Integrations
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
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#1

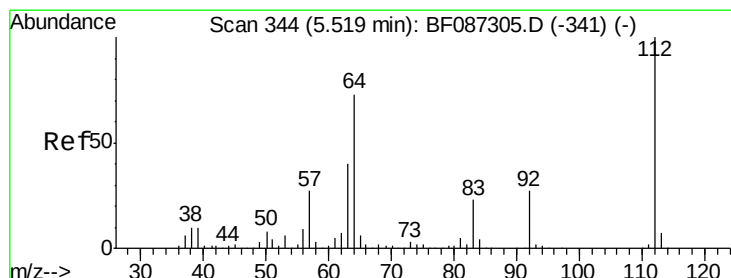
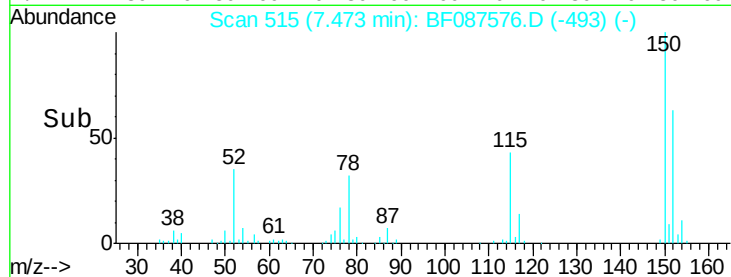
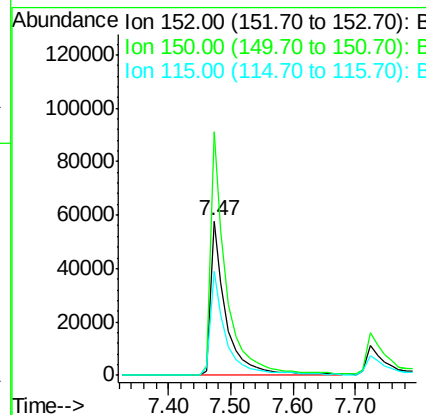
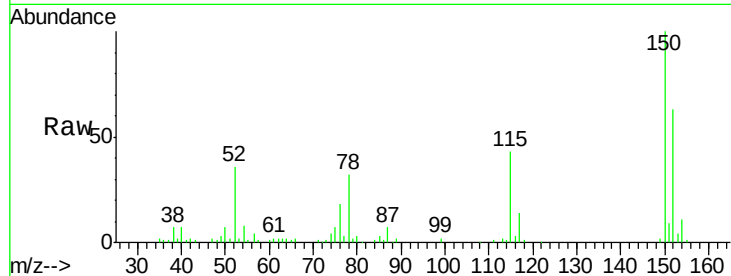
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.47 min Scan# 515
Delta R.T. -0.05 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	125.8	188.6
115	67.9	51.5	77.3

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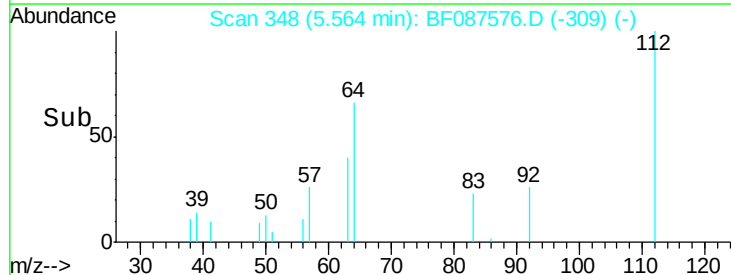
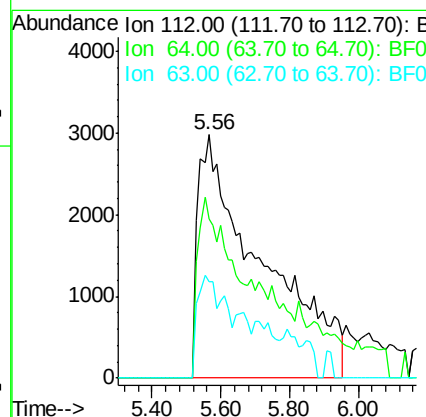
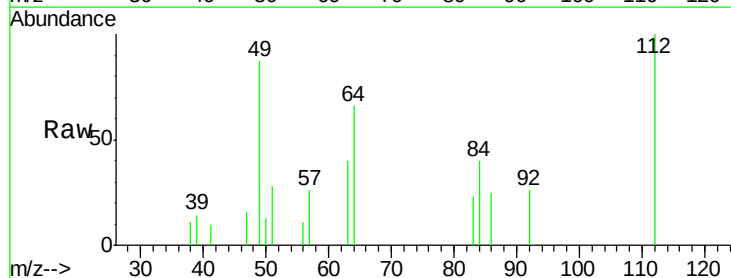
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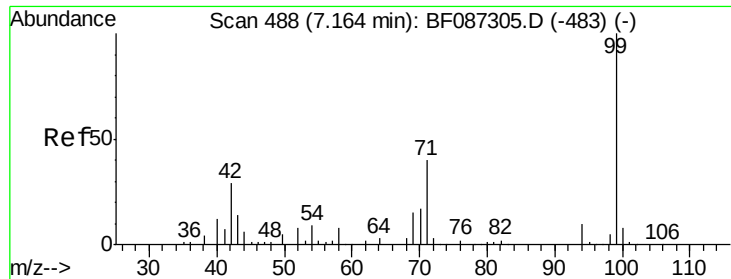


#5

2-Fluorophenol
Concen: 6.74 ng m
RT: 5.56 min Scan# 348
Delta R.T. 0.15 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.5	52.1	78.1
63	39.6	25.7	38.5





#7

Phenol-d6

Concen: 7.86 ng/mL

RT: 7.14 min Scan# 486

Delta R.T. 0.07 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

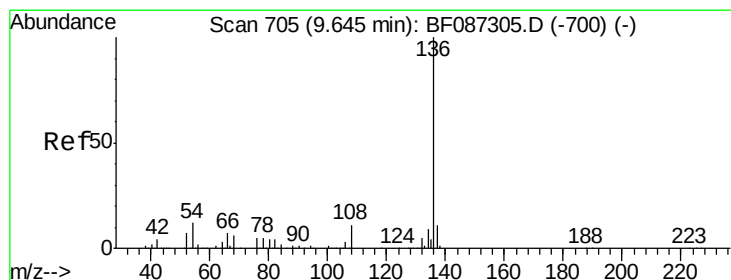
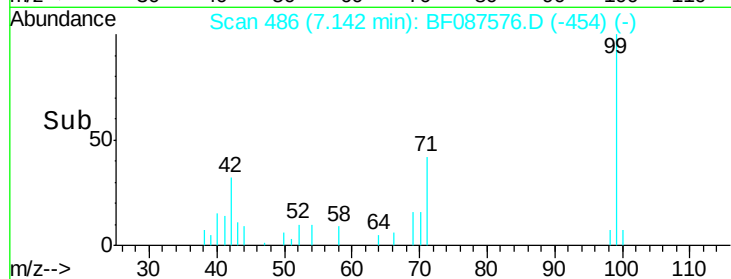
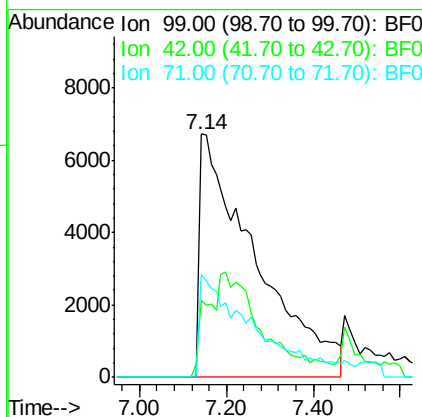
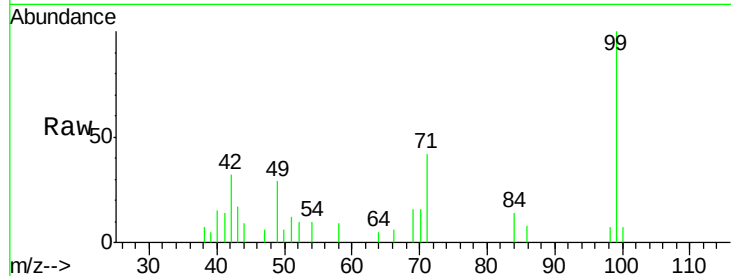
ClientSampleID :

TA-1304-(0-4)DL

Tot Ion:	99	Resp:	59799
Ion Ratio	Lower	Upper	
99	100		
42	32.0	13.6	20.4#
71	42.3	24.6	36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

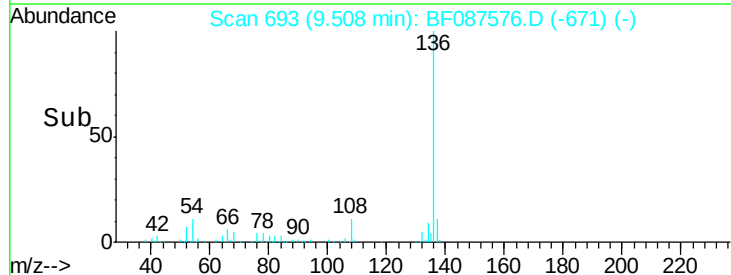
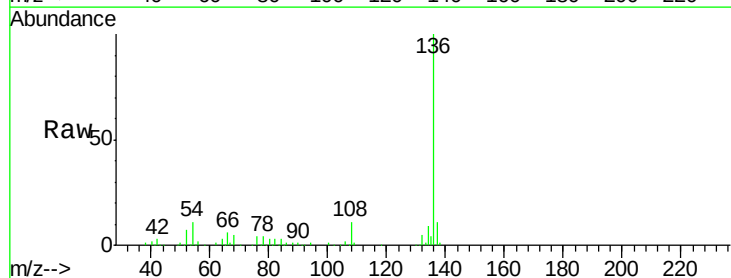
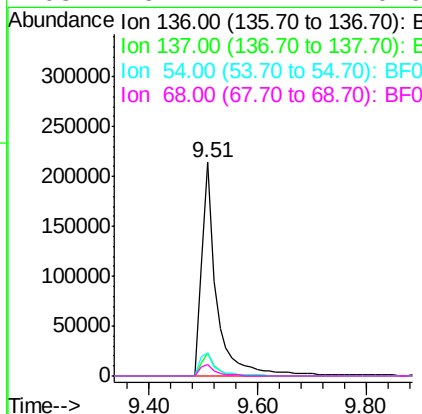
RT: 9.51 min Scan# 693

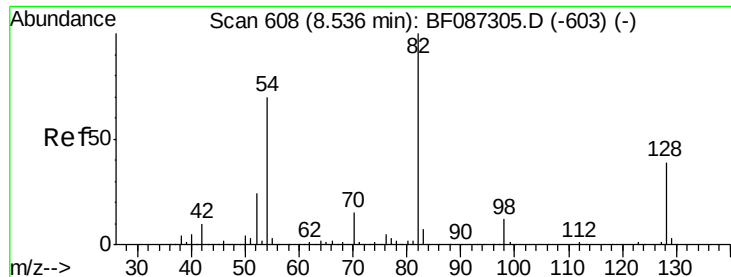
Delta R.T. -0.05 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Tgt Ion:	136	Resp:	405264
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.8	13.2
54	10.8	5.0	7.4#
68	5.1	4.4	6.6





#23

Nitrobenzene-d5

Concen: 3.98 ng

RT: 8.50 min Scan# 605

Delta R.T. 0.06 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

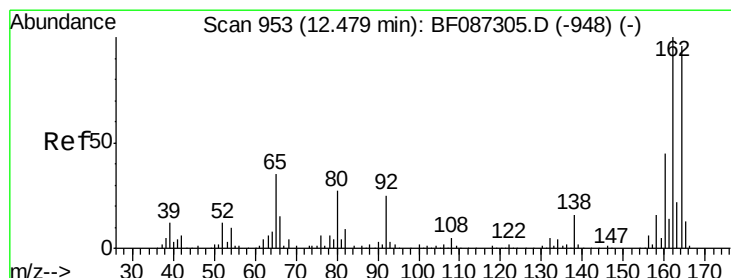
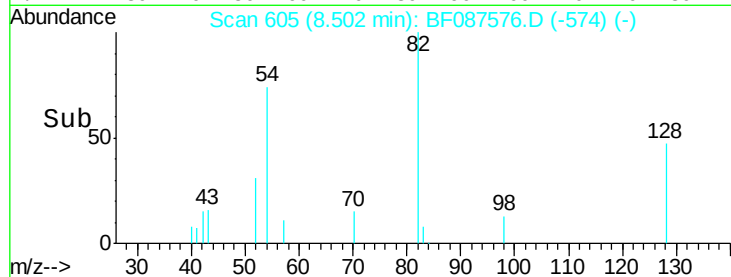
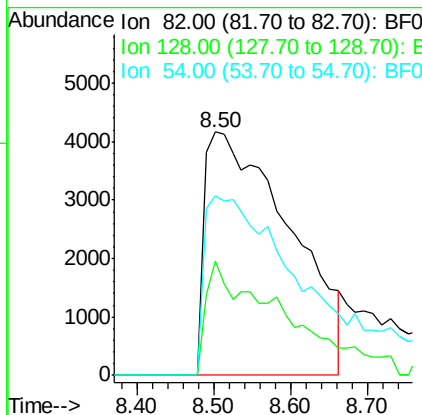
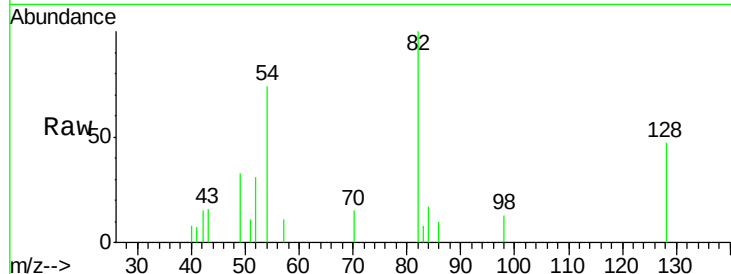
ClientSampleId :

TA-1304-(0-4)DL

Tot Ion:	82	Resp:	32038
Ion Ratio	Lower	Upper	
82	100		
128	46.7	40.6	61.0
54	73.8	38.1	57.1#

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#38

Acenaphthene-d10

Concen: 20.00 ng

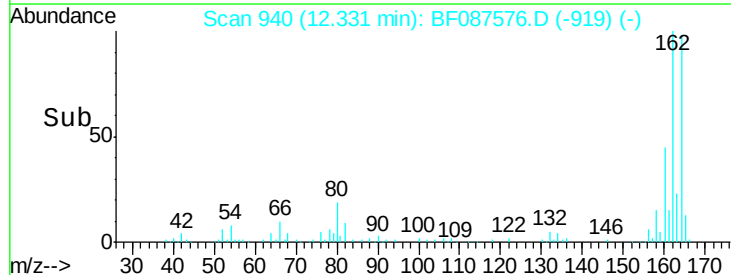
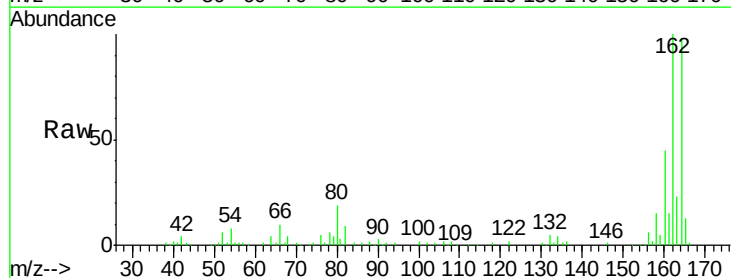
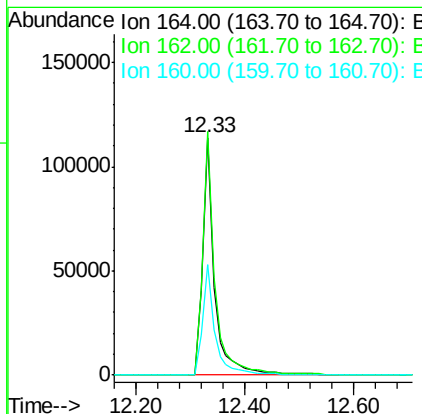
RT: 12.33 min Scan# 940

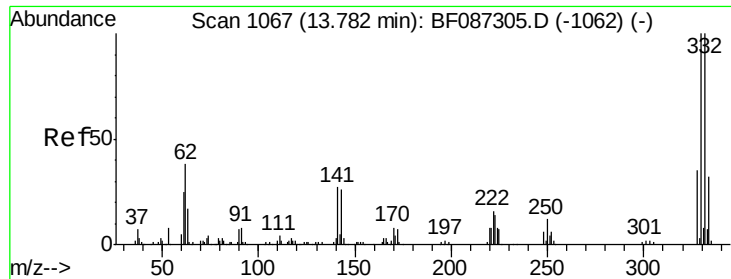
Delta R.T. -0.06 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Tgt Ion:	164	Resp:	173256
Ion Ratio	Lower	Upper	
164	100		
162	102.4	82.8	124.2
160	46.5	36.9	55.3





#41

2,4,6-Tribromophenol

Concen: 5.54 ng

RT: 13.68 min Scan# 1058

Delta R.T. 0.00 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

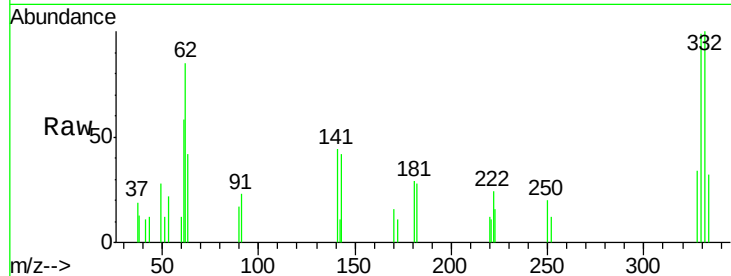
ClientSampleId :

TA-1304-(0-4)DL

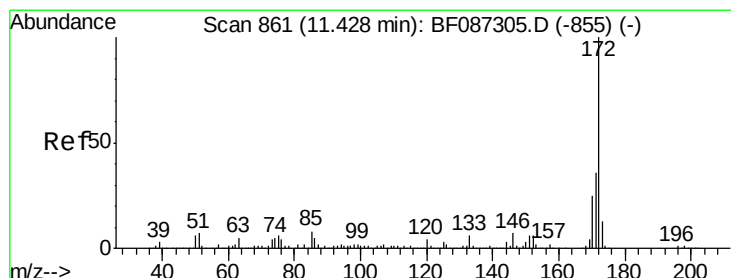
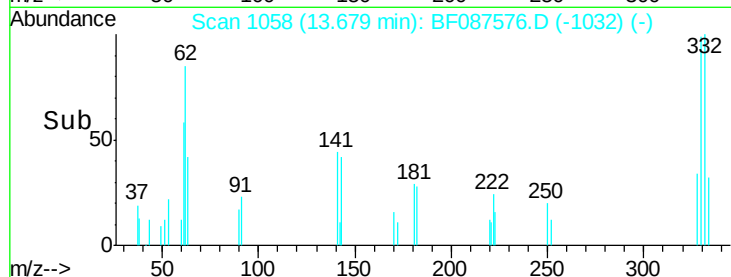
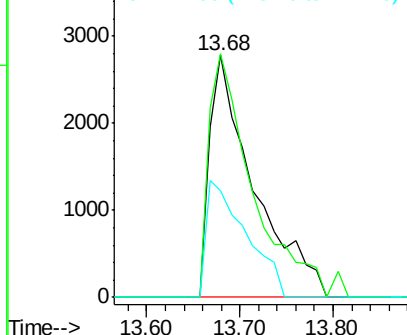
Tot Ion:	330	Resp:	9225
Ion Ratio	Lower	Upper	
330	100		
332	100.9	79.0	118.4
141	43.3	31.2	46.8

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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: 6.87 ng

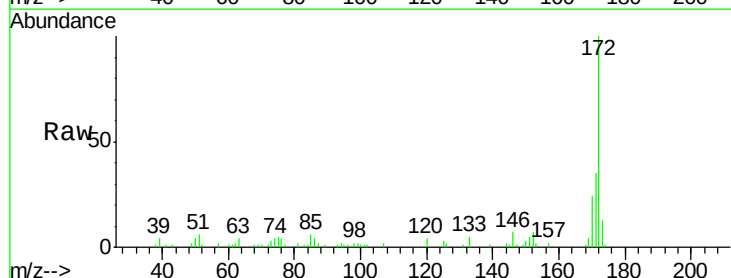
RT: 11.29 min Scan# 849

Delta R.T. -0.05 min

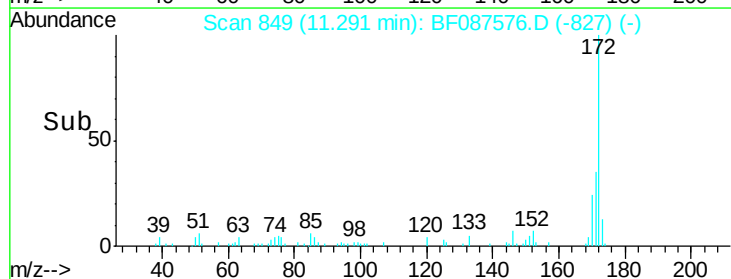
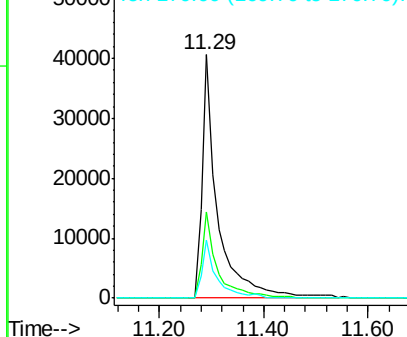
Lab File: BF087576.D

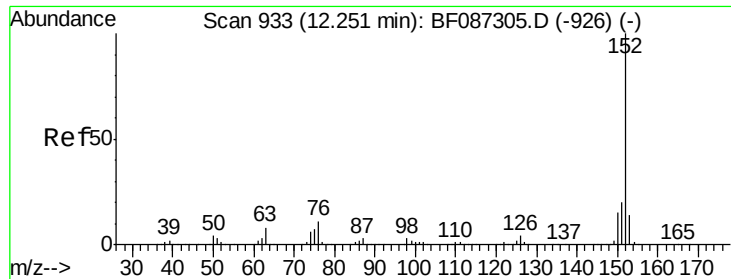
Acq: 31 May 2016 6:11

Tgt Ion:	172	Resp:	84409
Ion Ratio	Lower	Upper	
172	100		
171	35.3	29.0	43.6
170	24.0	19.8	29.8



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





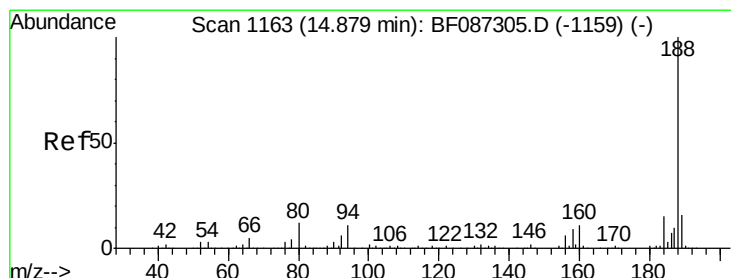
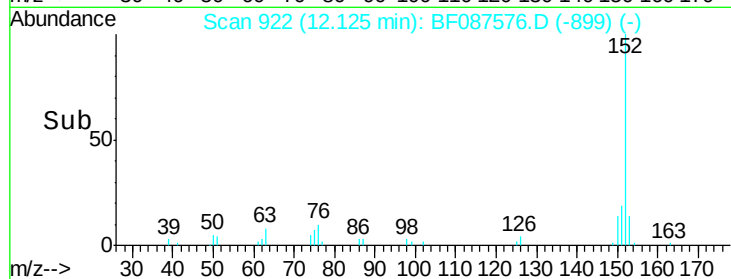
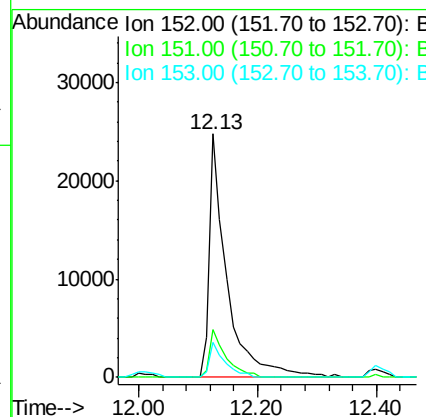
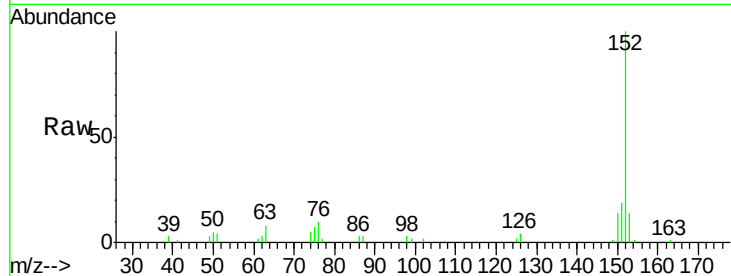
#48
Acenaphthylene
Concen: 2.94 ng
RT: 12.13 min Scan# 922
Delta R.T. -0.03 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

Tot Ion:	152	Resp:	51966
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.8	25.2
153	14.5	10.9	16.3

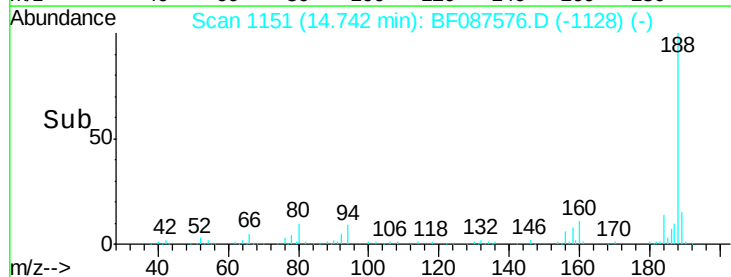
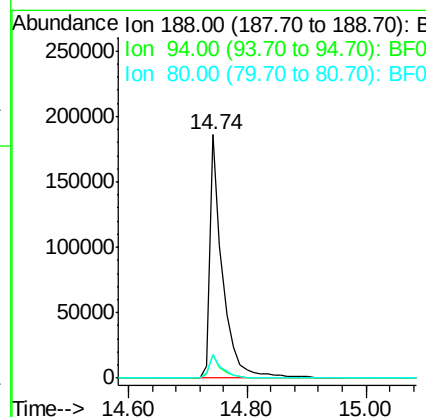
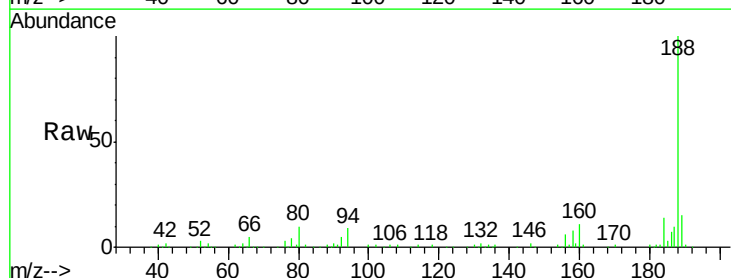
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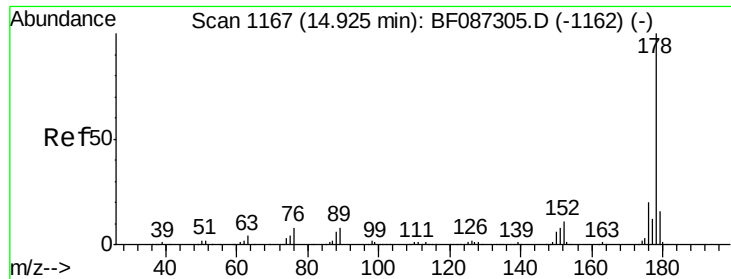
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.74 min Scan# 1151
Delta R.T. -0.03 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Tgt Ion:	188	Resp:	280003
Ion Ratio	Lower	Upper	
188	100		
94	9.5	6.8	10.2
80	9.8	7.1	10.7





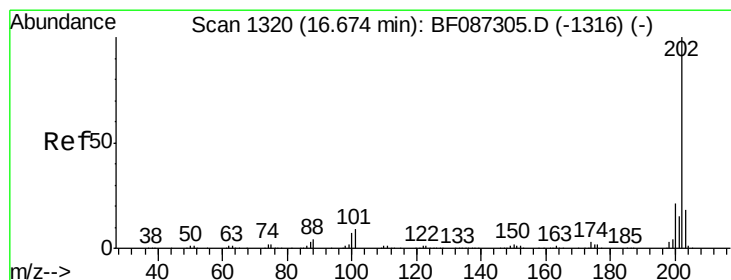
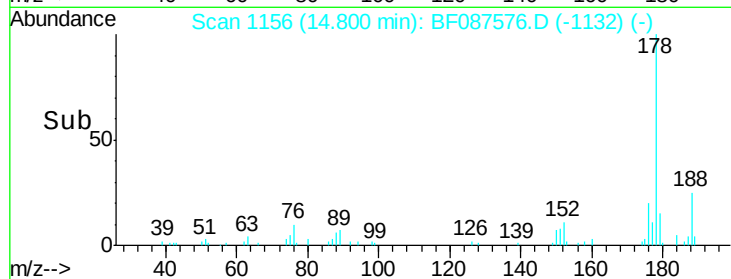
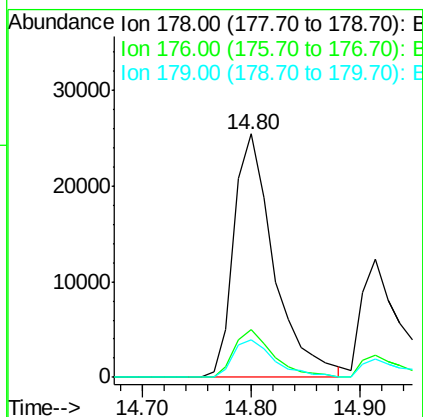
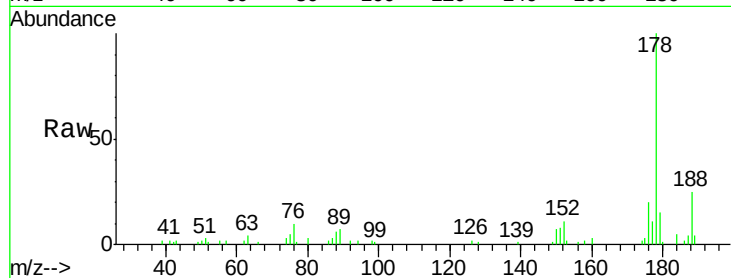
#70
Phenanthrene
Concen: 4.19 ng
RT: 14.80 min Scan# 1156
Delta R.T. -0.02 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.4	12.6	18.8

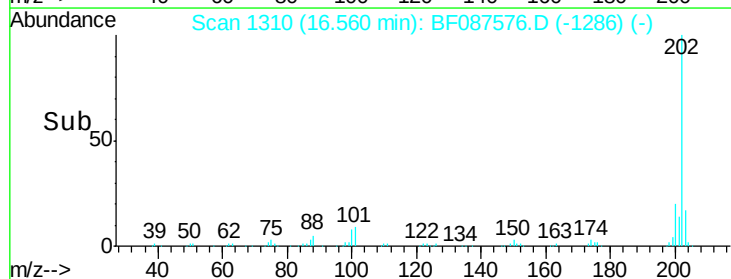
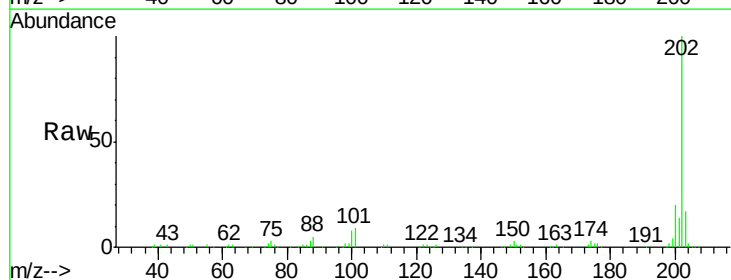
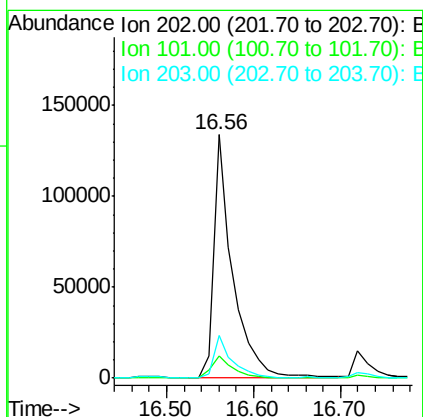
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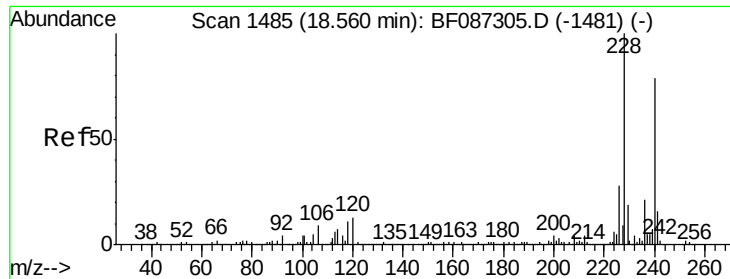
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#74
Fluoranthene
Concen: 13.23 ng
RT: 16.56 min Scan# 1310
Delta R.T. -0.02 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	35.4
203	17.4	0.0	38.1





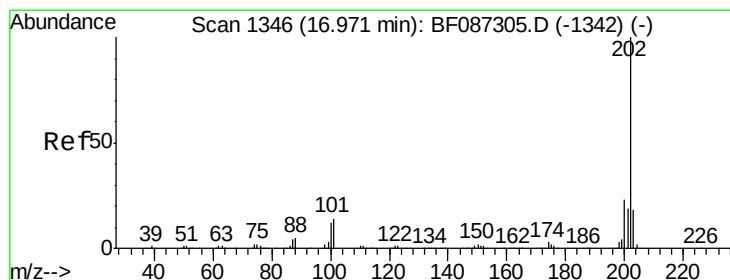
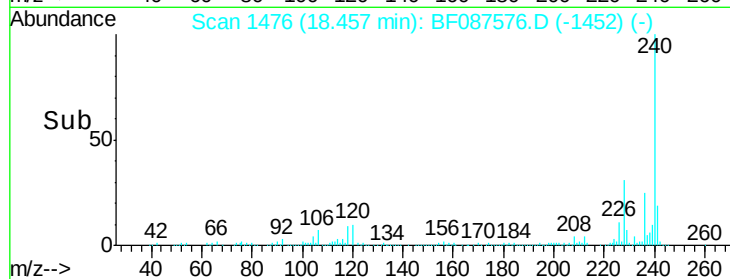
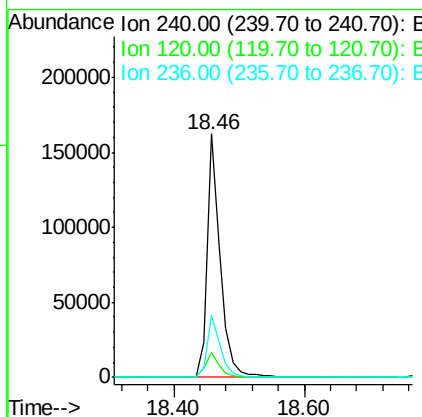
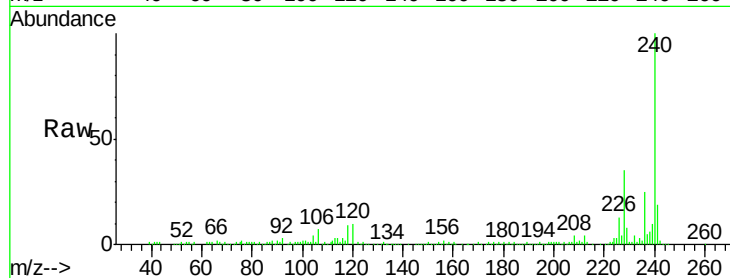
#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.46 min Scan# 1476
Delta R.T. -0.02 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	224510		
120	10.2	11.2	16.8#	
236	25.5	21.2	31.8	

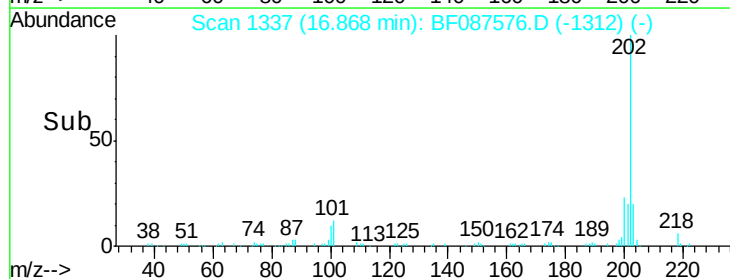
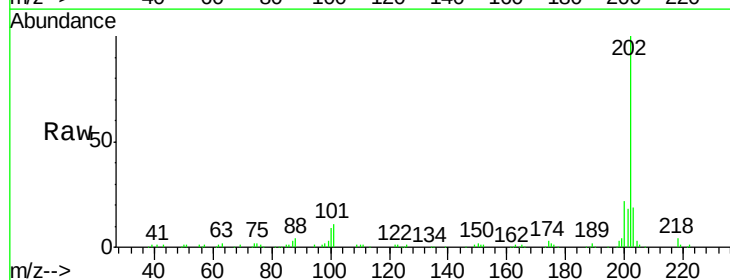
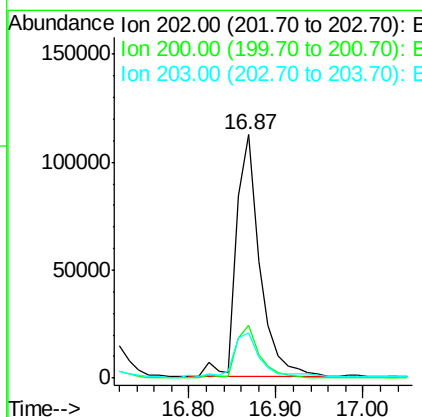
Manual Integrations
APPROVED

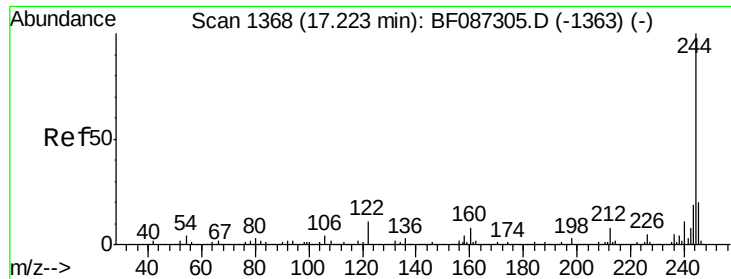
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#77
Pyrene
Concen: 12.98 ng
RT: 16.87 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	209817		
200	21.7	17.7	26.5	
203	18.8	14.2	21.4	





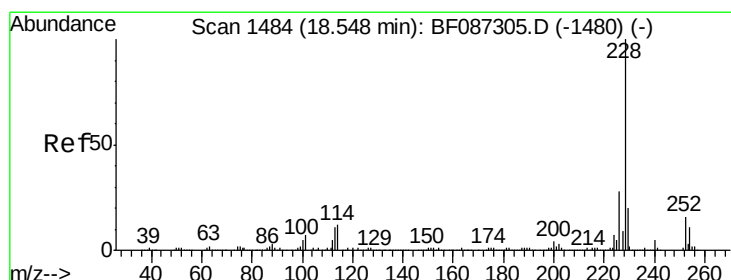
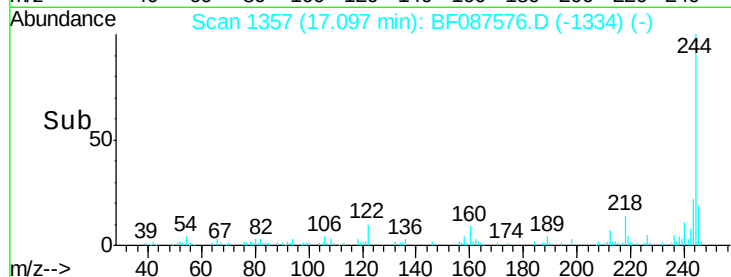
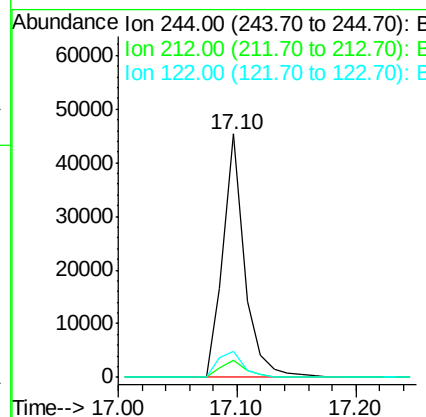
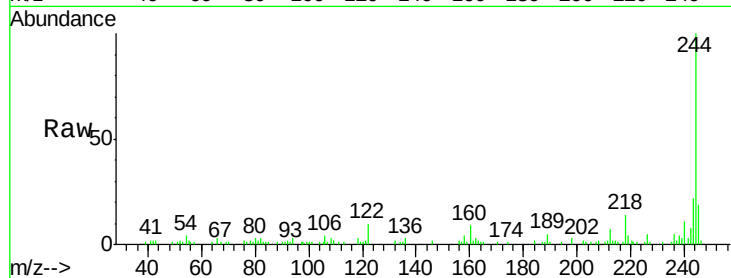
#78
 Terphenyl-d14
 Concen: 5.40 ng
 RT: 17.10 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: BF087576.D
 Acq: 31 May 2016 6:11

Instrument :
 BNA_F
 ClientSampleId :
 TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.2	9.2
122	10.5	12.0	18.0

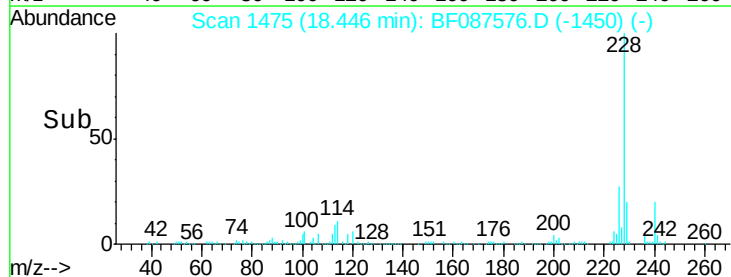
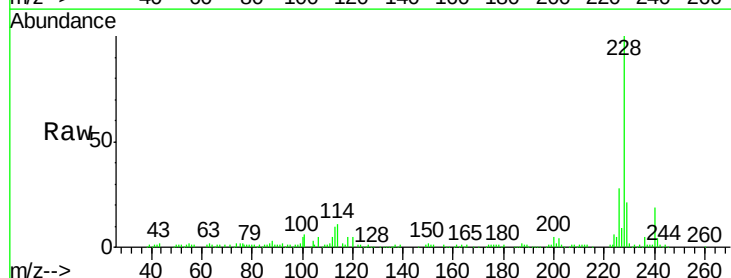
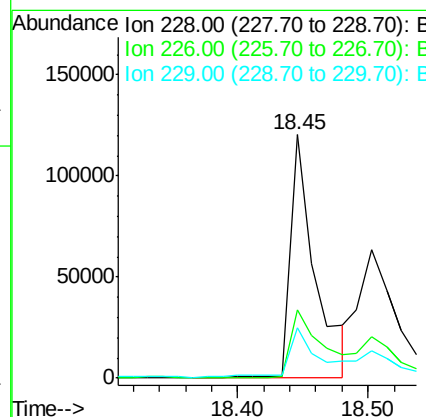
Manual Integrations
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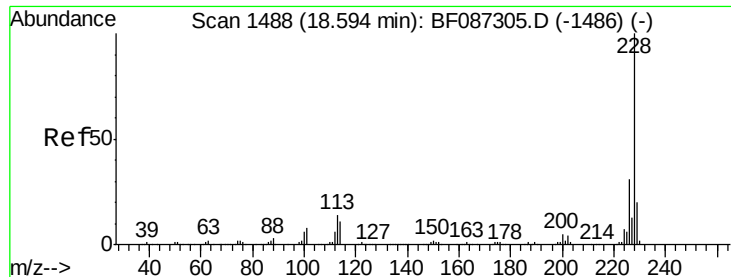
umangi
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#80
 Benzo(a)anthracene
 Concen: 12.48 ng
 RT: 18.45 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: BF087576.D
 Acq: 31 May 2016 6:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.6	16.6	25.0





#82

Chrysene

Concen: 9.95 ng

RT: 18.50 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

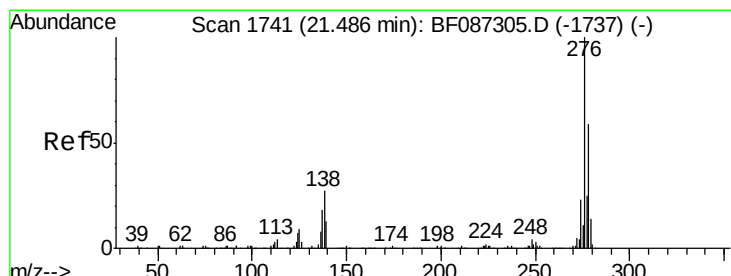
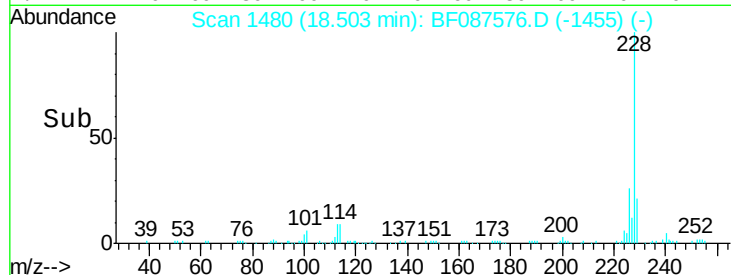
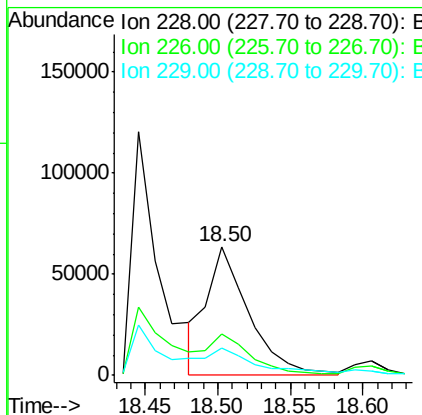
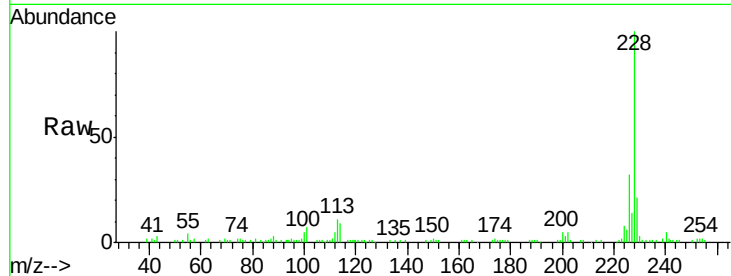
ClientSampleId :

TA-1304-(0-4)DL

Tot Ion:	228	Resp:	126112
Ion Ratio		Lower	Upper
228	100		
226	32.4	24.4	36.6
229	21.2	15.8	23.8

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#85

Indeno(1,2,3-cd)pyrene

Concen: 8.49 ng m

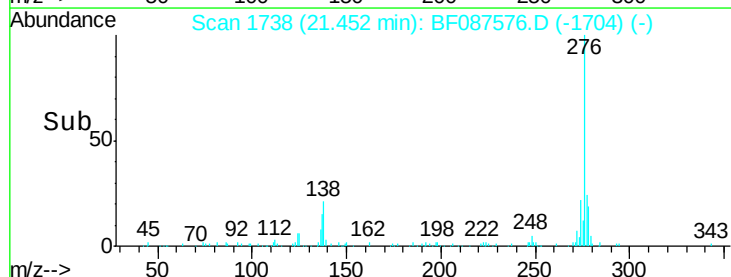
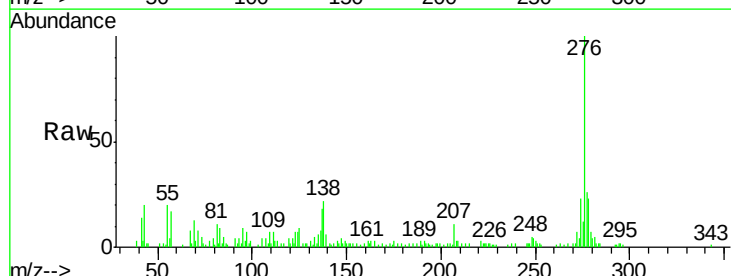
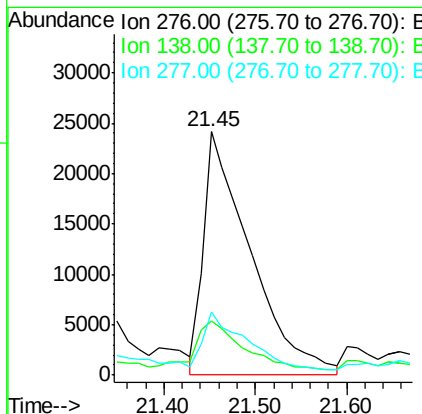
RT: 21.45 min Scan# 1738

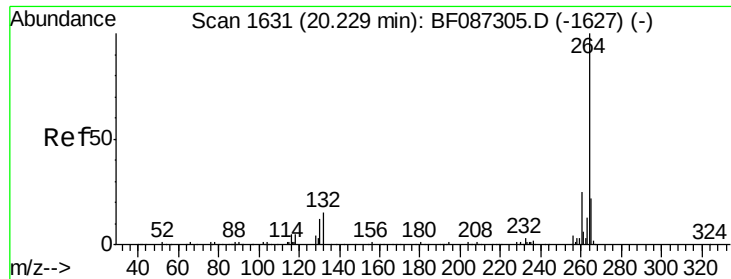
Delta R.T. 0.09 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Tgt Ion:	276	Resp:	86303
Ion Ratio		Lower	Upper
276	100		
138	3.6	25.6	38.4#
277	10.0	20.5	30.7#





#86

Pervlene-d12

Concen: 20.00 ng

RT: 20.15 min Scan# 1624

Delta R.T. 0.01 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

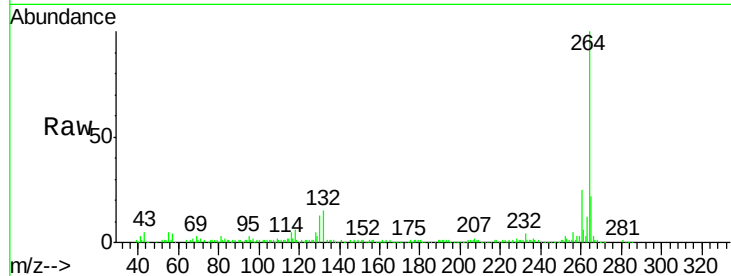
ClientSampleId :

TA-1304-(0-4)DL

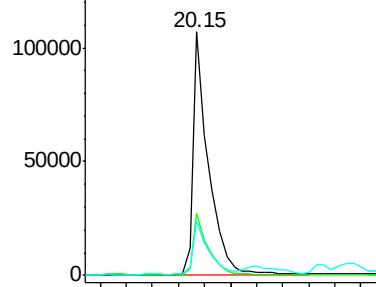
Tot Ion:	264	Resp:	178192
Ion Ratio		Lower	Upper
264	100		
260	25.3	19.5	29.3
265	22.2	17.3	25.9

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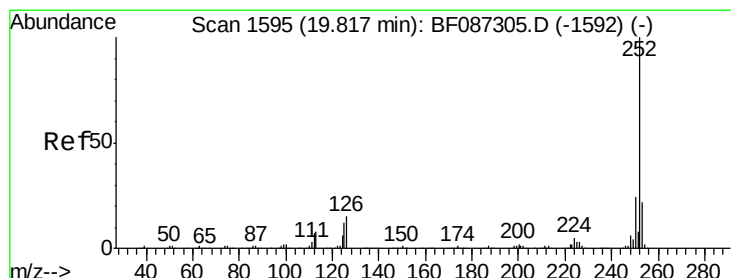
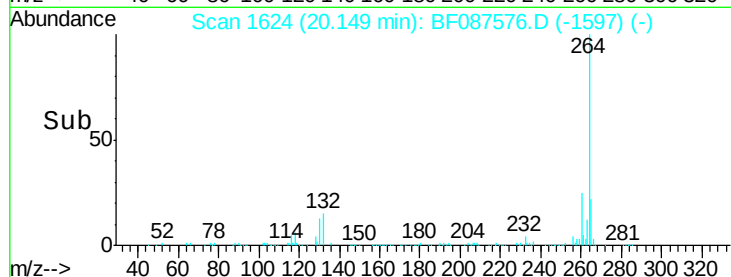
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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time--> 20.00 20.20



#87

Benzo(b)fluoranthene

Concen: 17.69 ng m

RT: 19.75 min Scan# 1589

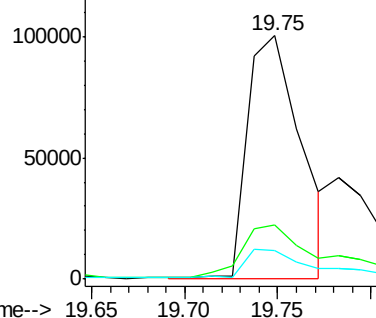
Delta R.T. 0.02 min

Lab File: BF087576.D

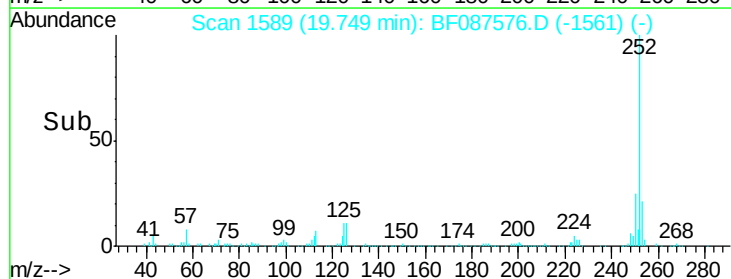
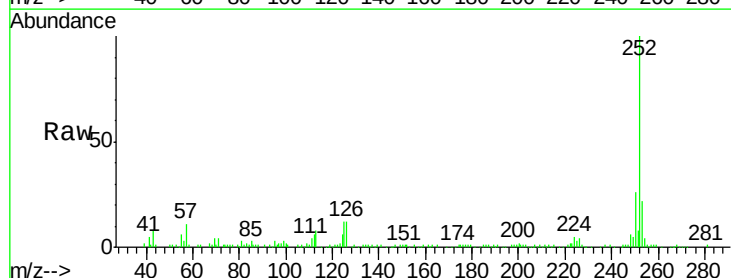
Acq: 31 May 2016 6:11

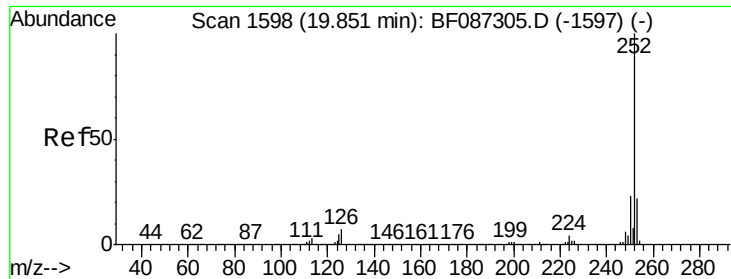
Tgt Ion:	252	Resp:	200851
Ion Ratio		Lower	Upper
252	100		
253	22.1	17.8	26.6
125	11.6	11.4	17.0

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



Time--> 19.65 19.70 19.75





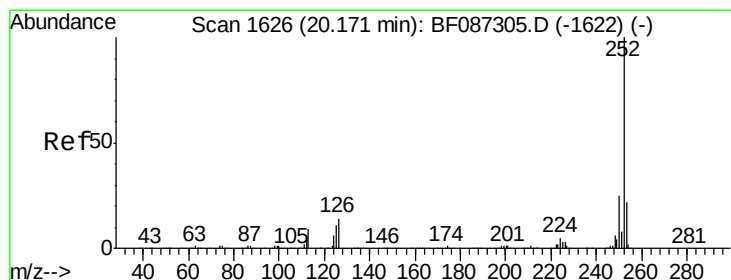
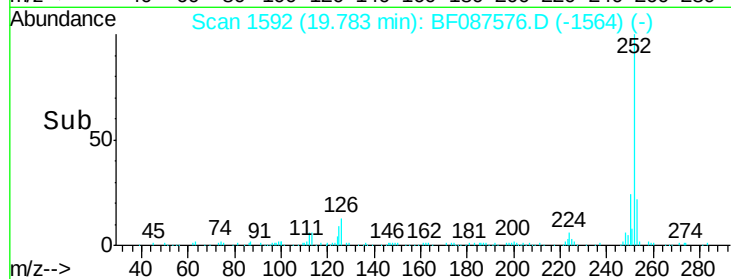
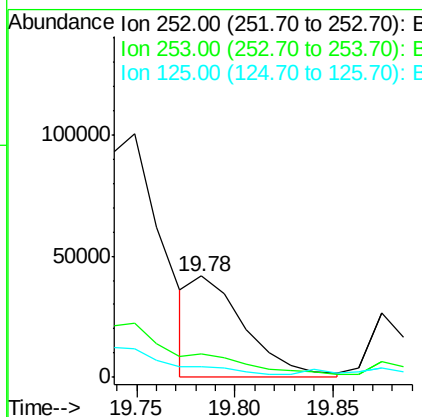
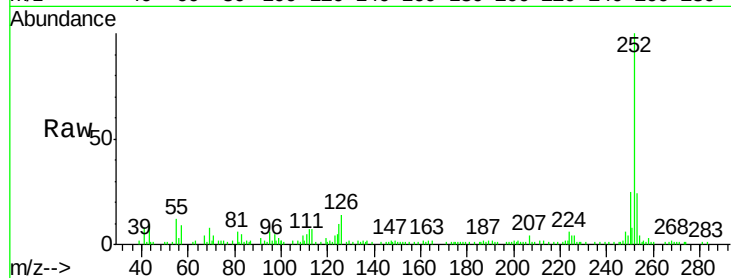
#88
Benzo(k)fluoranthene
Concen: 8.07 ng m
RT: 19.78 min Scan# 1592
Delta R.T. 0.02 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Instrument :
BNA_F
ClientSampleId :
TA-1304-(0-4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.6
125	10.5	9.1	13.7

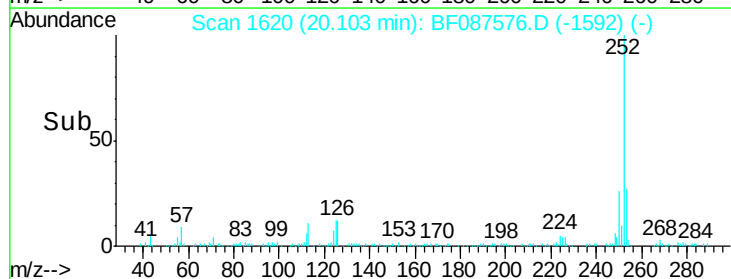
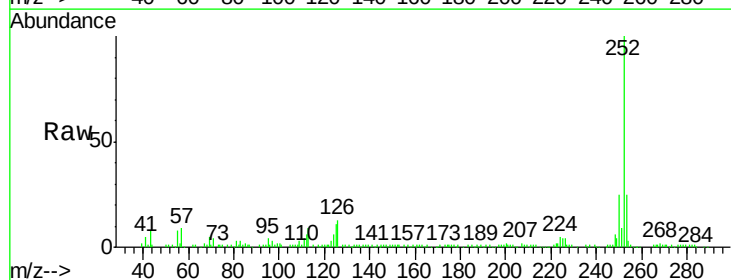
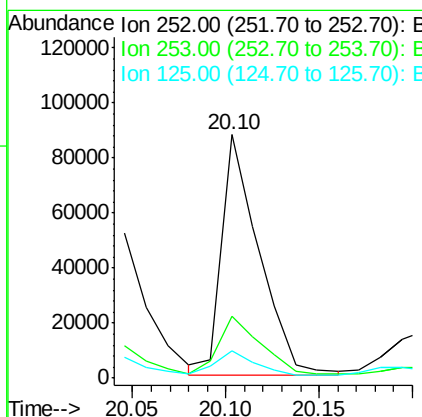
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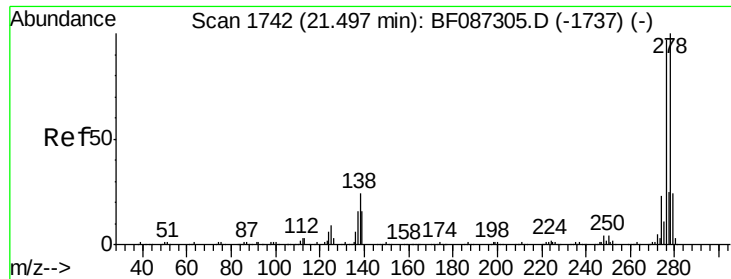
umangi
5/31/2016 7:40:57 PM



#89
Benzo(a)pyrene
Concen: 12.54 ng
RT: 20.10 min Scan# 1620
Delta R.T. 0.02 min
Lab File: BF087576.D
Acq: 31 May 2016 6:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	17.2	25.8
125	11.3	9.0	13.6





#90

Dibenzo(a,h)anthracene

Concen: 2.30 ng

RT: 21.44 min Scan# 1737

Delta R.T. 0.08 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

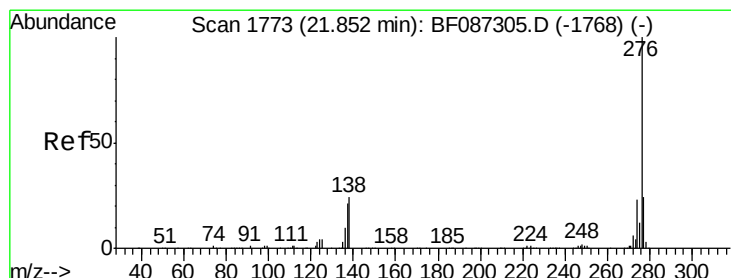
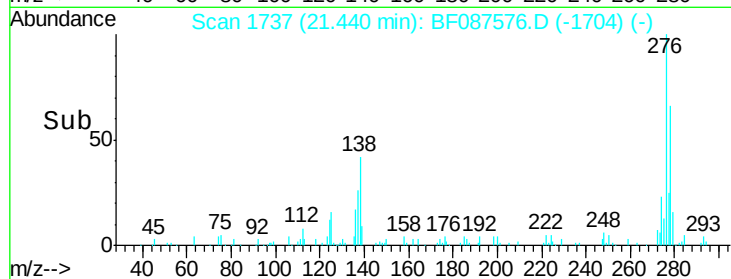
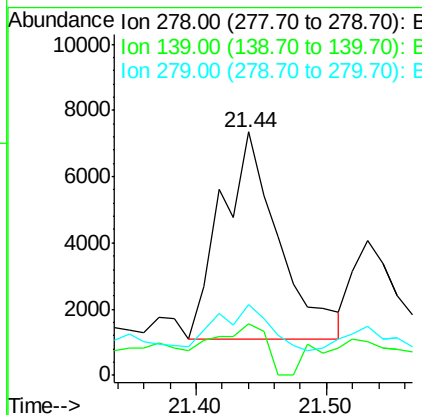
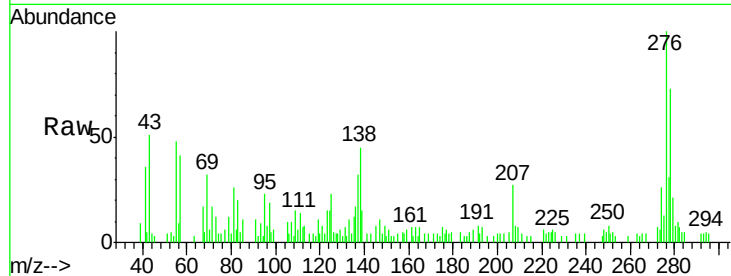
ClientSampleId :

TA-1304-(0-4)DL

Tot Ion:	278	Resp:	19224
Ion Ratio	Lower	Upper	
278	100		
139	21.0	16.6	24.8
279	29.2	19.6	29.4

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 10.27 ng m

RT: 21.82 min Scan# 1770

Delta R.T. 0.10 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Tgt Ion:	276	Resp:	84883
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.6	29.4
138	21.4	23.6	35.4#

