

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
 Data File : BF086279.D
 Acq On : 18 Apr 2016 13:54
 Operator : UM/SJ
 Sample : H2471-04
 Misc :
 ALS Vial : 74 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CDMSH4

Manual Integrations
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 4/19/2016 6:21:41 PM

Quant Time: Apr 19 01:19:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 15 15:56:31 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	359574	20.00	ng	-0.01
21) Naphthalene-d8	8.17	136	1414496	20.00	ng	-0.01
38) Acenaphthene-d10	9.93	164	664849	20.00	ng	-0.01
63) Phenanthrene-d10	11.41	188	1150673	20.00	ng	0.00
75) Chrysene-d12	14.04	240	631473	20.00	ng	-0.01
86) Perylene-d12	15.48	264	630765	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	2075076	94.55	ng	0.01
7) Phenol-d6	6.52	99	2779204	101.25	ng	0.00
23) Nitrobenzene-d5	7.45	82	1575612	64.25	ng	-0.01
41) 2,4,6-Tribromophenol	10.72	330	462146	86.57	ng	-0.01
44) 2-Fluorobiphenyl	9.25	172	2280568	63.30	ng	-0.01
78) Terphenyl-d14	13.00	244	1789606	71.26	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.64	163	598571	12.38	ng	100
51) Acenaphthene	9.96	154	248801	6.70	ng	100
54) Dibenzofuran	10.13	168	153938	3.14	ng	94
57) Fluorene	10.48	166	279271	5.05	ng	98
70) Phenanthrene	11.44	178	1981790	36.06	ng	99
71) Anthracene	11.48	178	857095	12.34	ng	98
72) Carbazole	11.63	167	281524	5.39	ng	98
74) Fluoranthene	12.62	202	2143867	45.36	ng	99
77) Pyrene	12.85	202	1951266	40.28	ng	100
80) Benzo(a)anthracene	14.03	228	983872	28.38	ng	99
82) Chrysene	14.07	228	700285	18.95	ng	96
85) Indeno(1,2,3-cd)pyrene	16.88	276	352631	11.61	ng	97
87) Benzo(b)fluoranthene	15.07	252	806502m	20.72	ng	
88) Benzo(k)fluoranthene	15.09	252	285909m	8.06	ng	
89) Benzo(a)pyrene	15.41	252	583273	17.30	ng	95
90) Dibenzo(a,h)anthracene	16.90	278	88710	2.98	ng	94
91) Benzo(a,h,i)perylene	17.31	276	316290	9.99	ng	99

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

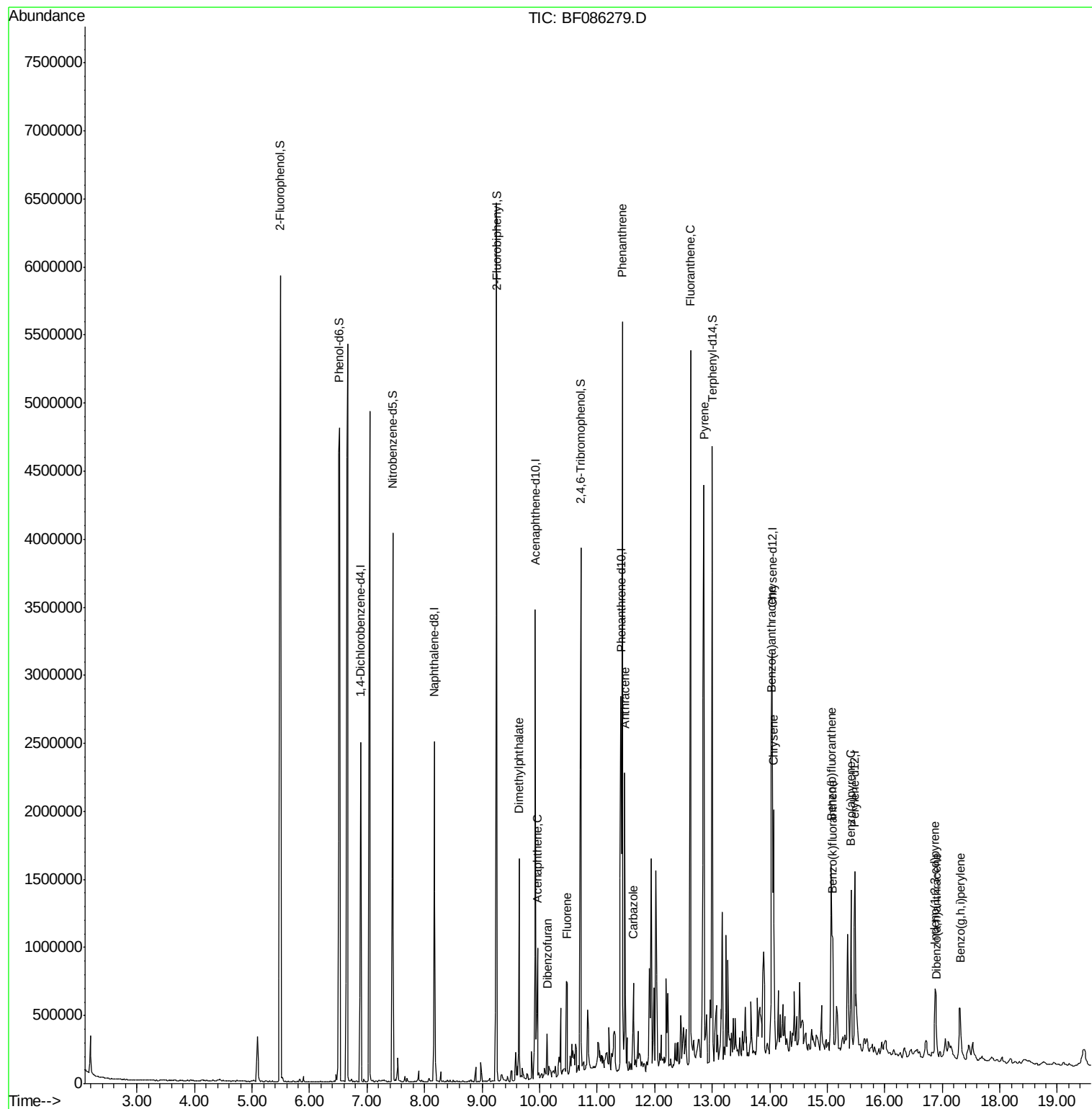
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
Data File : BF086279.D
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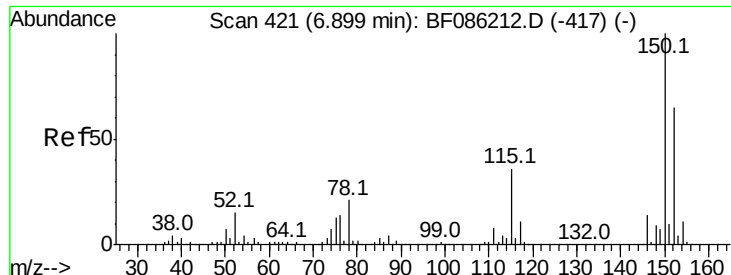
Instrument :
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#1

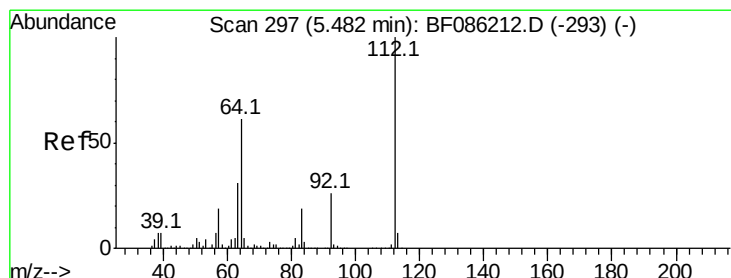
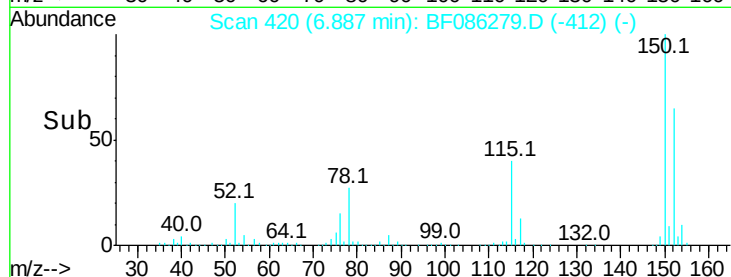
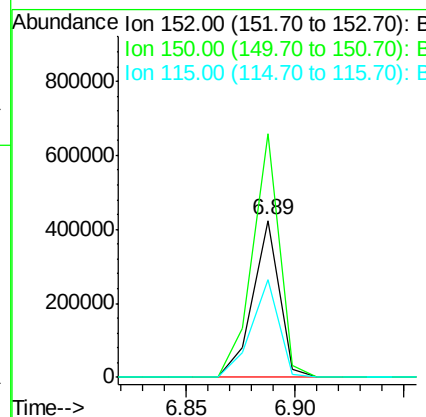
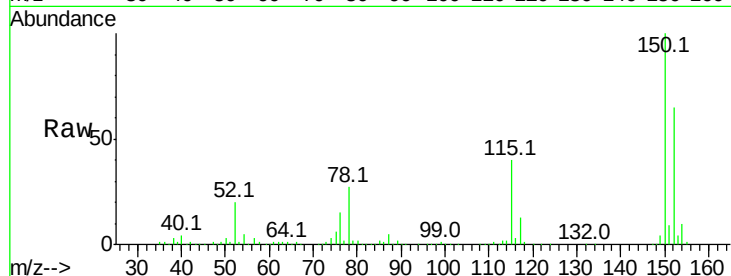
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.89 min Scan# 420
Delta R.T. -0.01 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Instrument :
BNA_F
ClientSampleId :
CDMSH4

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.1	186.1
115	62.0	43.9	65.9

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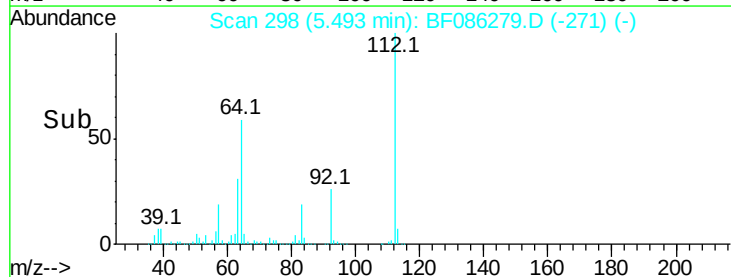
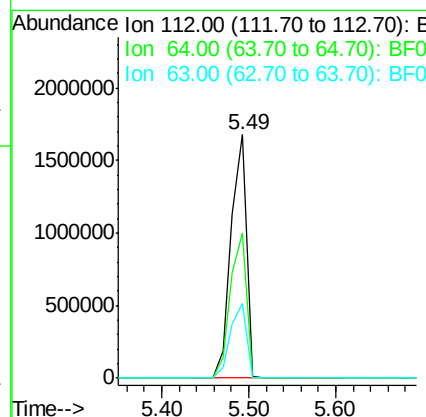
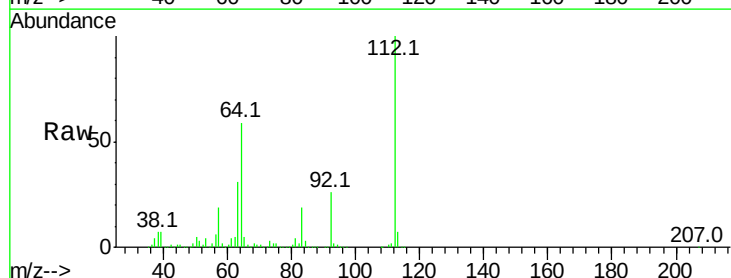
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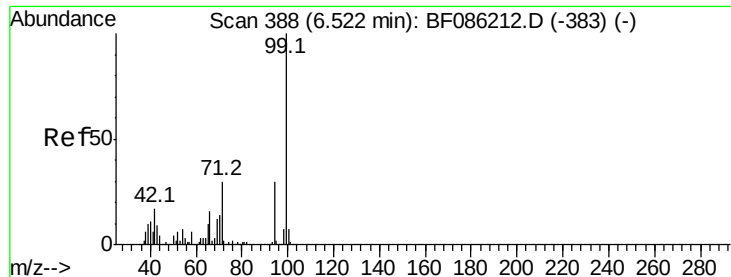


#5

2-Fluorophenol
Concen: 94.55 ng
RT: 5.49 min Scan# 298
Delta R.T. 0.01 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.5	48.1	72.1
63	30.7	25.5	38.3





#7

Phenol-d6

Concen: 101.25 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.00 min

Lab File: BF086279.D

Acq: 18 Apr 2016 13:54

Instrument :

BNA_F

ClientSampleId :

CDMSH4

Tot Ion: 99 Resp: 2779204

Ion Ratio Lower Upper

99 100

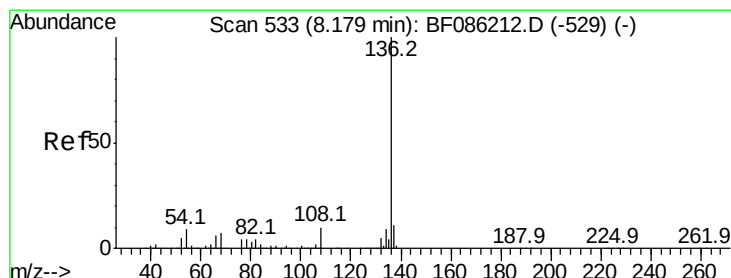
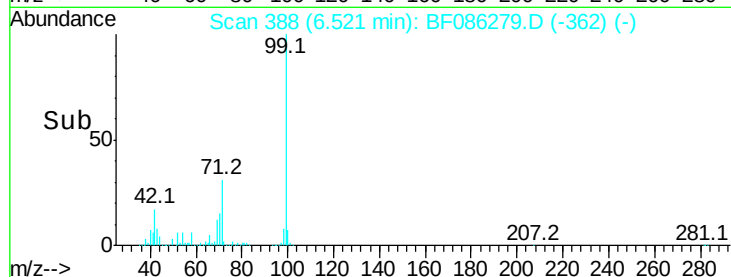
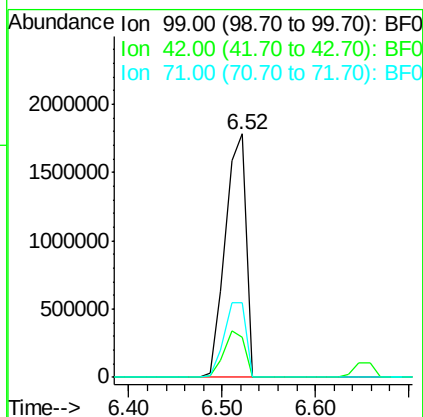
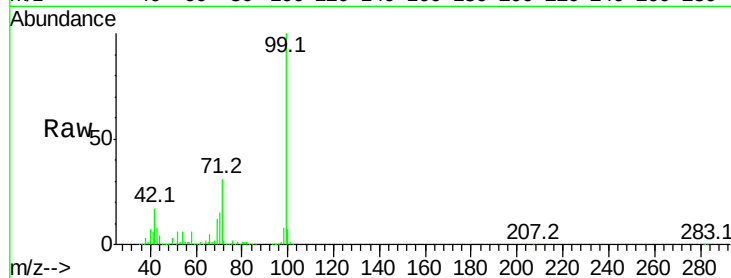
42 16.6 15.4 23.2

71 30.8 25.6 38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.17 min Scan# 532

Delta R.T. -0.01 min

Lab File: BF086279.D

Acq: 18 Apr 2016 13:54

Tgt Ion: 136 Resp: 1414496

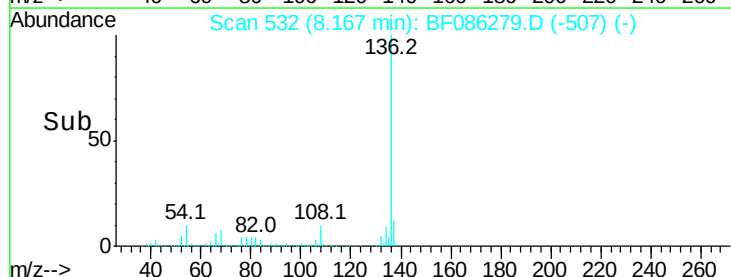
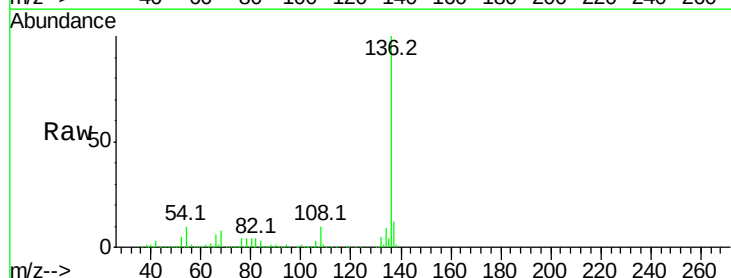
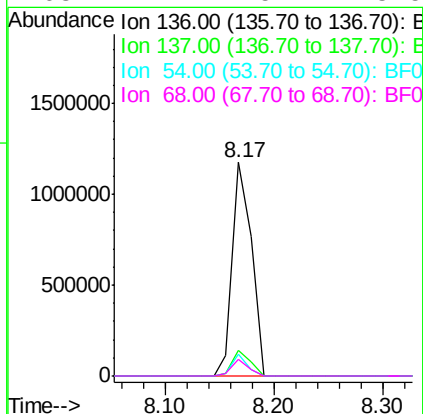
Ion Ratio Lower Upper

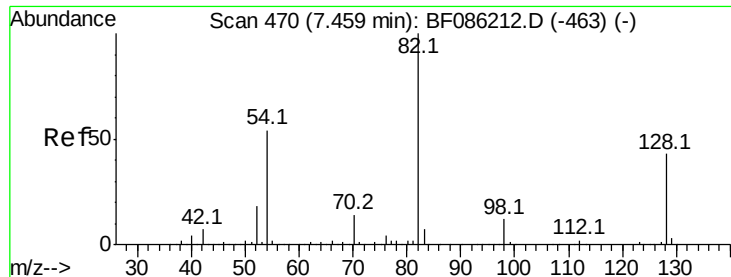
136 100

137 11.7 9.1 13.7

54 9.9 7.3 10.9

68 7.7 5.7 8.5





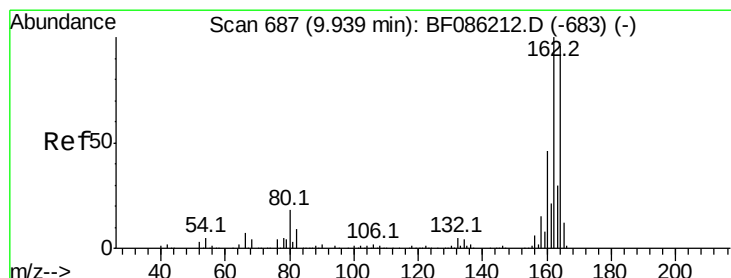
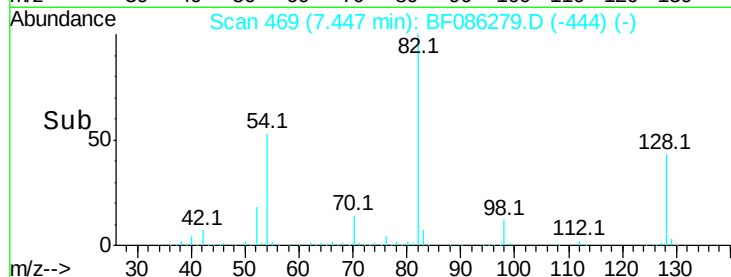
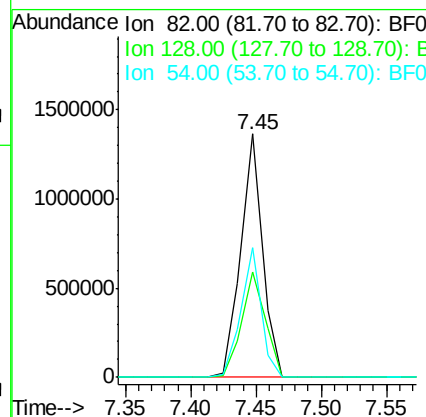
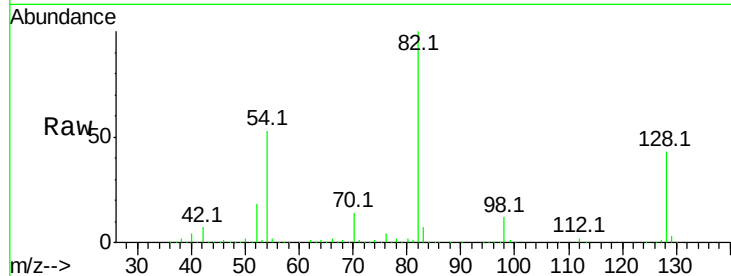
#23
 Nitrobenzene-d5
 Concen: 64.25 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Instrument :
 BNA_F
 ClientSampleId :
 CDMSH4

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.4	35.4	53.2
54	53.1	43.4	65.0

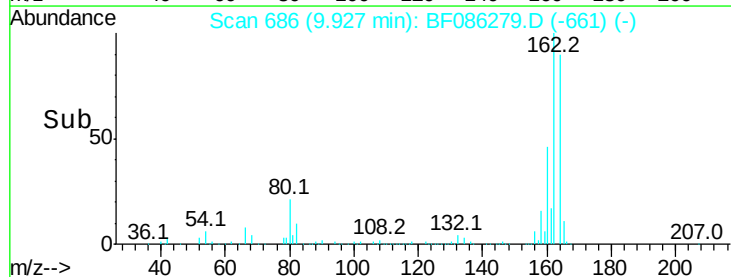
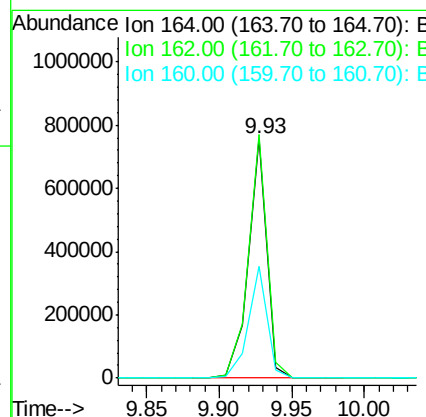
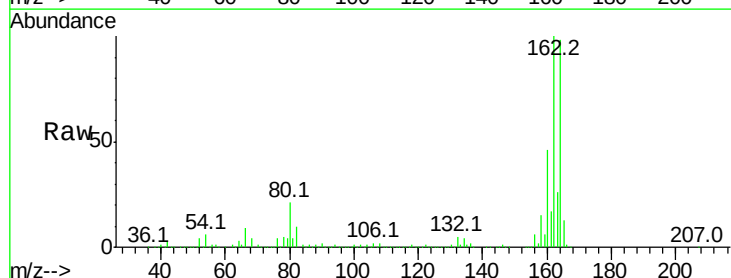
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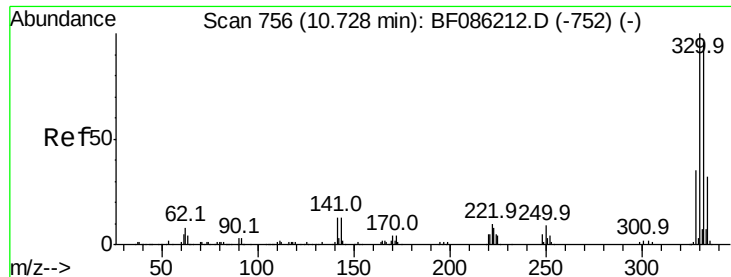
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.93 min Scan# 686
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.8	124.2
160	46.6	38.9	58.3





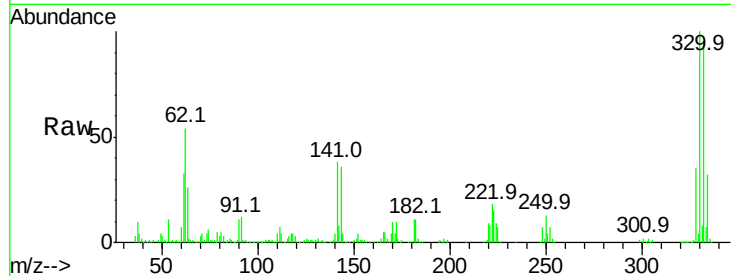
#41
 2,4,6-Tribromophenol
 Concen: 86.57 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Instrument :
 BNA_F
 ClientSampled :
 CDMSH4

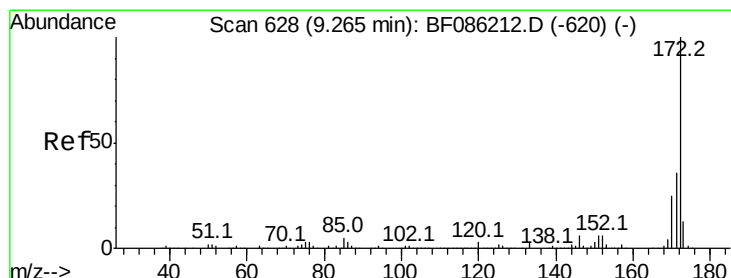
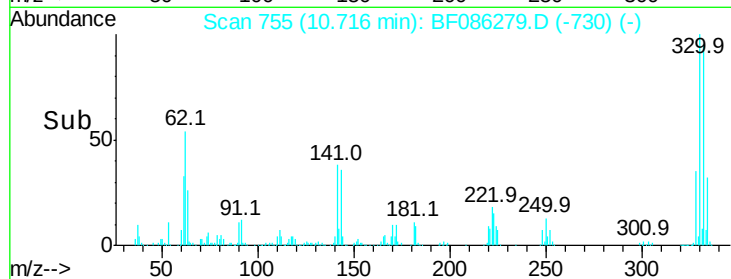
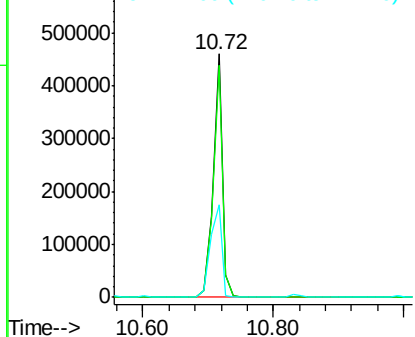
Tot Ion	Ratio	Resp	Lower	Upper
330	100	462146		
332	96.1	78.7	118.1	
141	46.8	28.6	42.8#	

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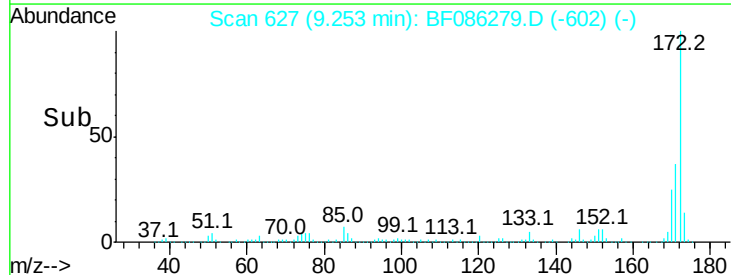
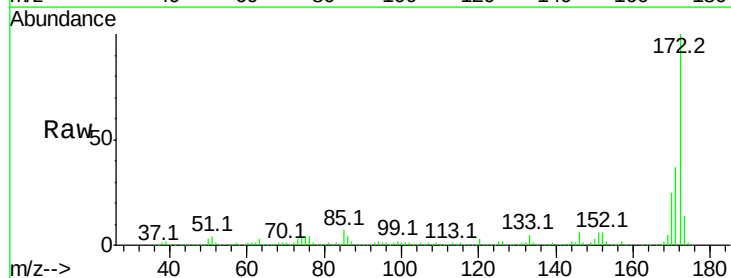
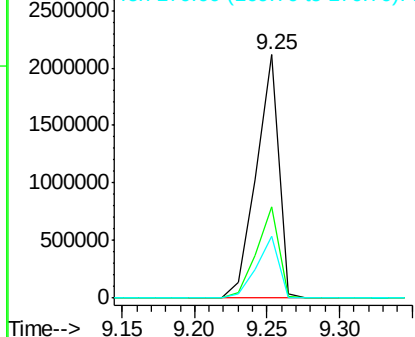
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

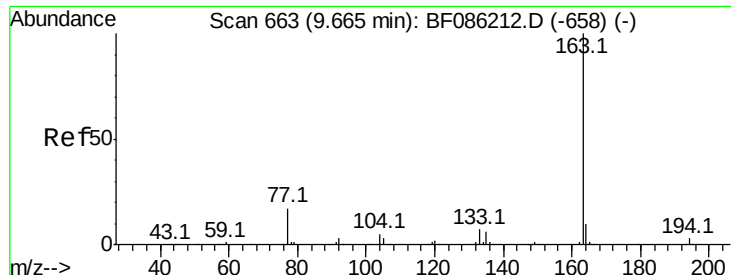


#44
 2-Fluorobiphenyl
 Concen: 63.30 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	2280568		
171	37.3	29.1	43.7	
170	25.3	19.9	29.9	

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





#49

Dimethylphthalate

Concen: 12.38 ng

RT: 9.64 min Scan# 661

Delta R.T. -0.02 min

Lab File: BF086279.D

Acq: 18 Apr 2016 13:54

Instrument :

BNA_F

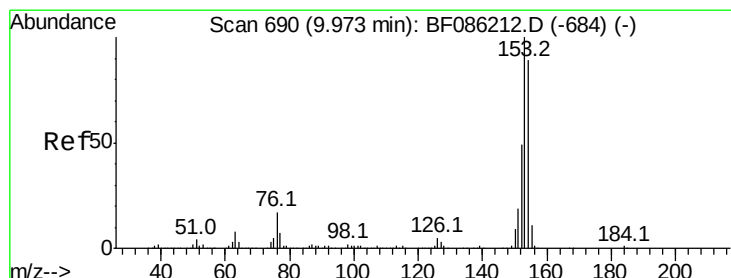
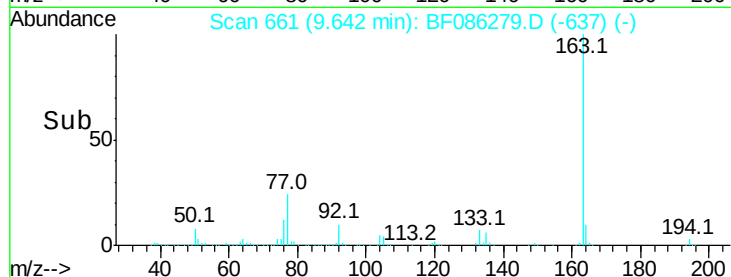
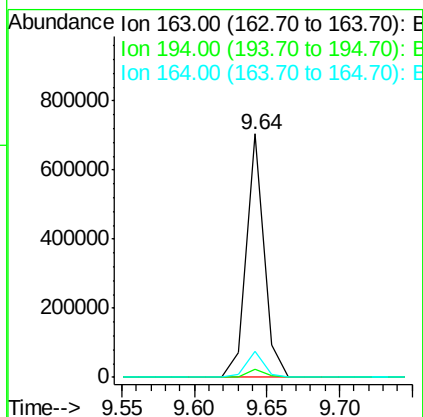
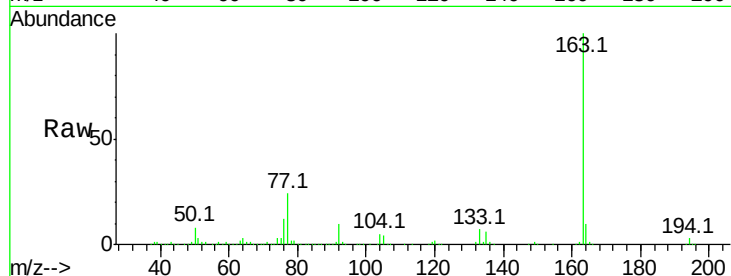
ClientSampleId :

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Tot Ion:	163	Resp:	598571
Ion Ratio	Lower	Upper	
163	100		
194	3.3	2.8	4.2
164	10.5	8.4	12.6

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#51

Acenaphthene

Concen: 6.70 ng

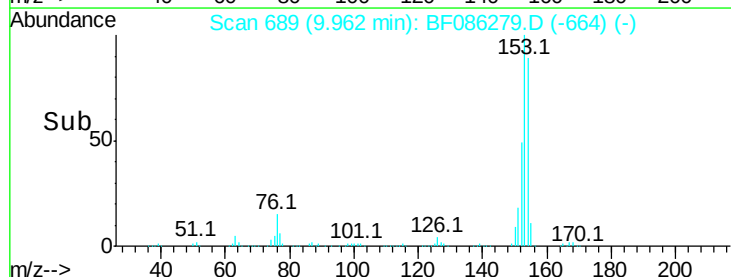
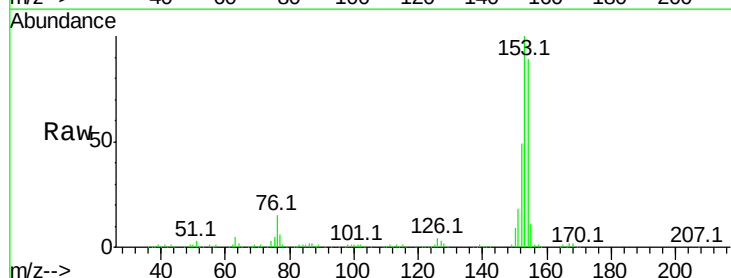
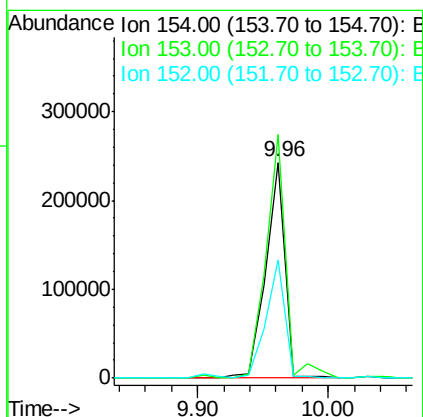
RT: 9.96 min Scan# 689

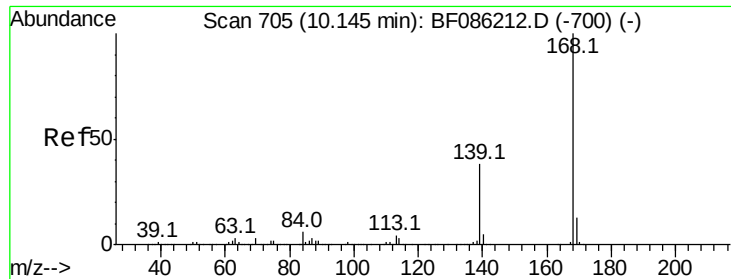
Delta R.T. -0.01 min

Lab File: BF086279.D

Acq: 18 Apr 2016 13:54

Tgt Ion:	154	Resp:	248801
Ion Ratio	Lower	Upper	
154	100		
153	112.9	90.0	135.0
152	55.1	44.3	66.5





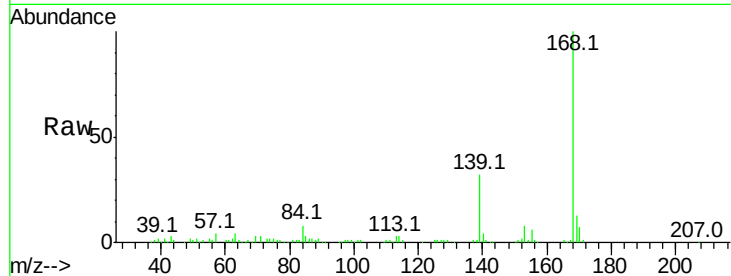
#54
Dibenzofuran
Concen: 3.14 ng
RT: 10.13 min Scan# 704
Delta R.T. -0.01 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Instrument :
BNA_F
ClientSampleId :
CDMSH4

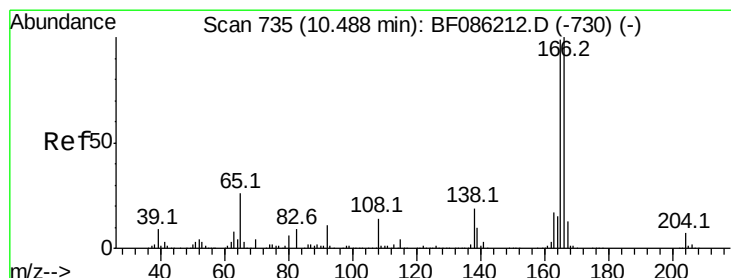
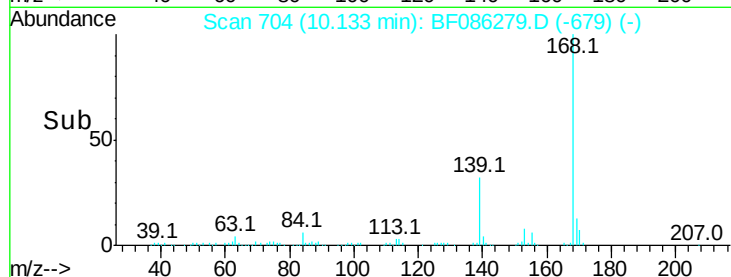
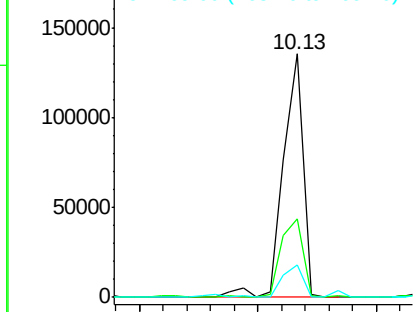
Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	32.3	29.5	44.3	
169	13.3	10.6	16.0	

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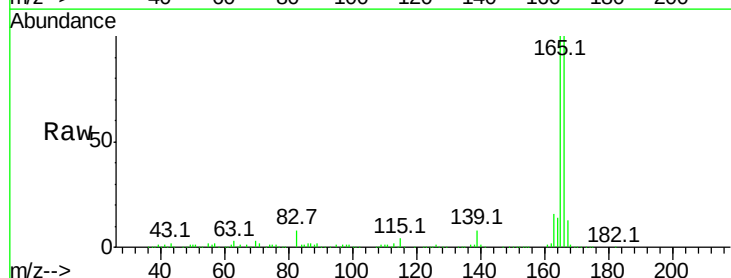


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

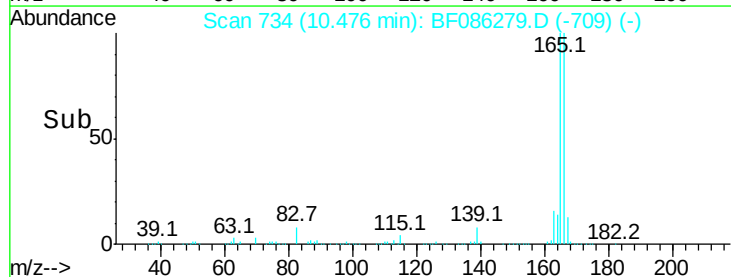
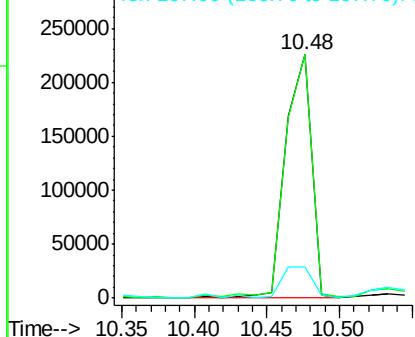


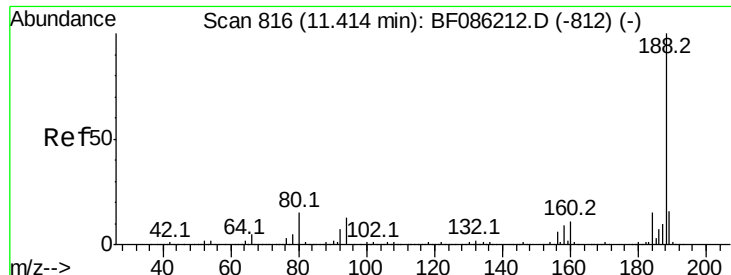
#57
Fluorene
Concen: 5.05 ng
RT: 10.48 min Scan# 734
Delta R.T. -0.01 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	99.9	78.6	117.8	
167	12.9	10.4	15.6	



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





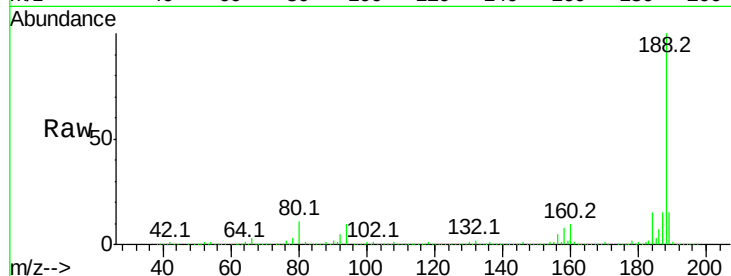
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.00 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Instrument :
BNA_F
ClientSampled :
CDMSH4

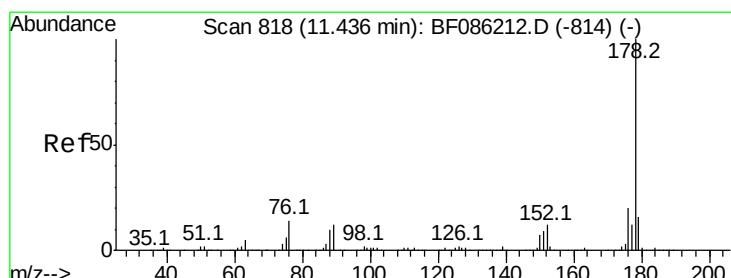
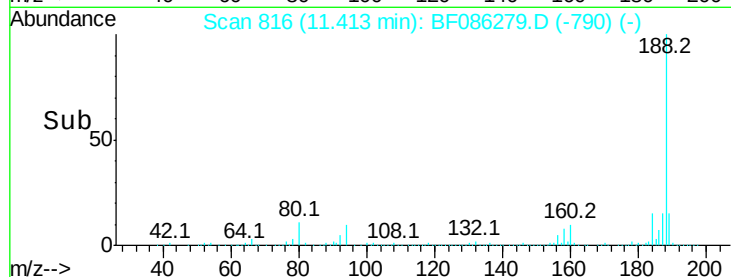
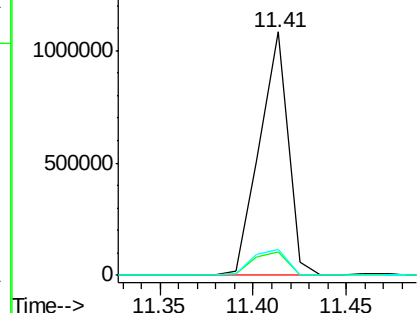
Tot Ion	Ratio	Lower	Upper
188	100		
94	9.7	9.8	14.8#
80	10.5	10.5	15.7

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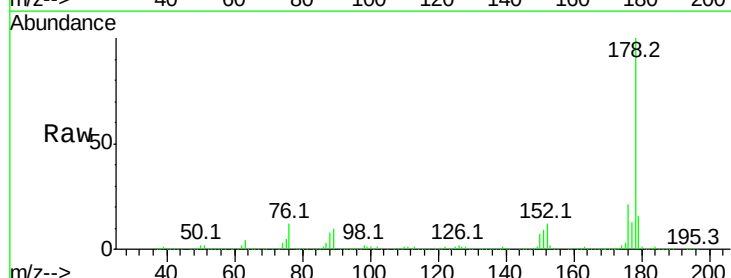


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

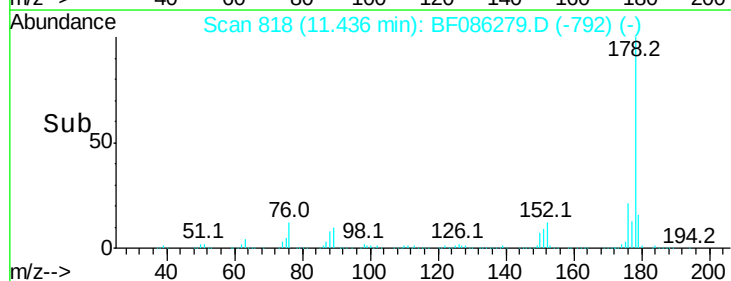
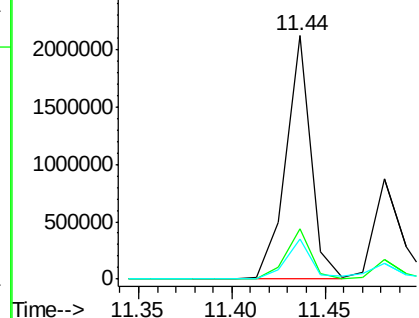


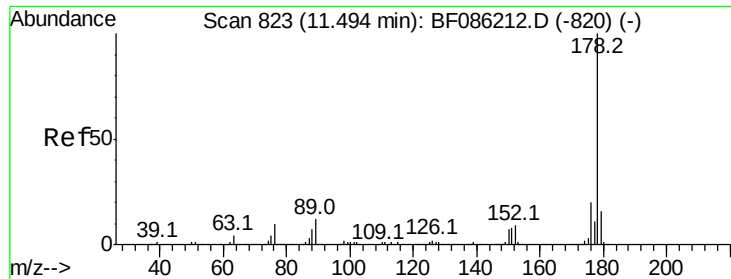
#70
Phenanthrene
Concen: 36.06 ng
RT: 11.44 min Scan# 818
Delta R.T. 0.00 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.9	16.3	24.5
179	16.3	13.0	19.6



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





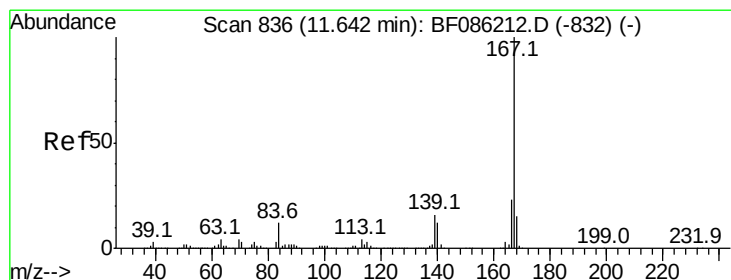
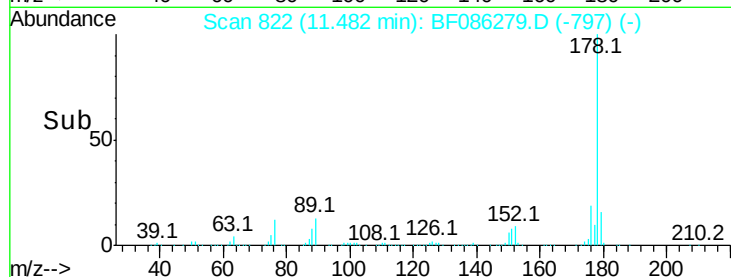
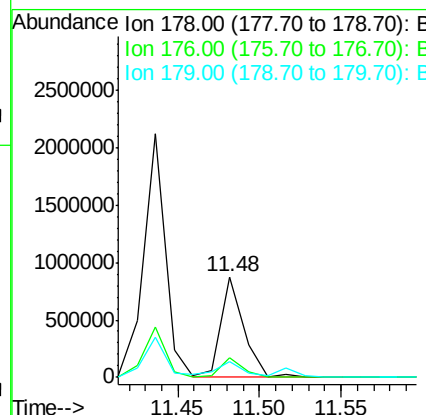
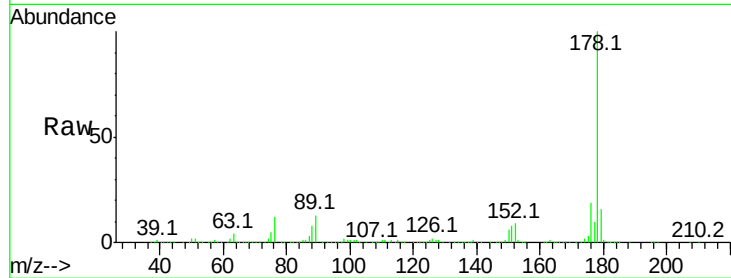
#71
 Anthracene
 Concen: 12.34 ng
 RT: 11.48 min Scan# 822
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Instrument :
 BNA_F
 ClientSampled :
 CDMSH4

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.2	24.4
179	15.9	13.2	19.8

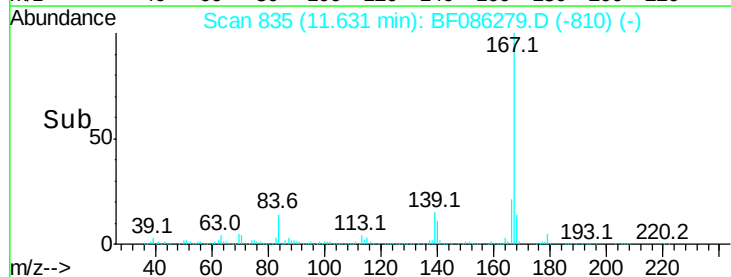
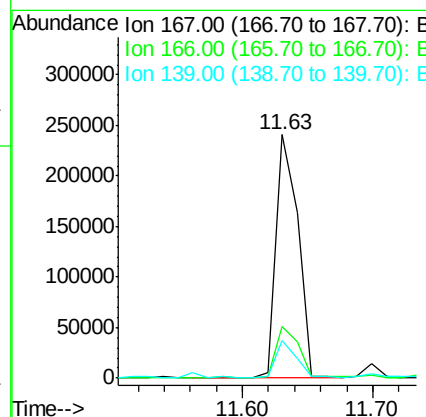
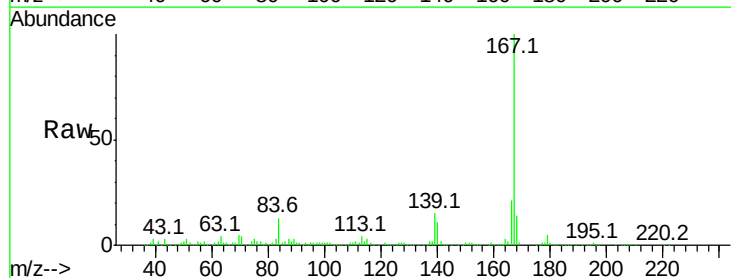
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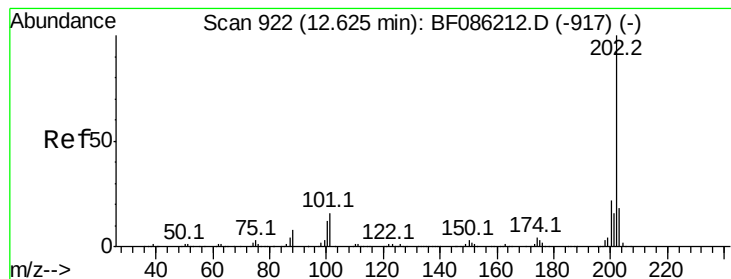
Sohil
 4/19/2016 6:21:41 PM



#72
 Carbazole
 Concen: 5.39 ng
 RT: 11.63 min Scan# 835
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.0	18.3	27.5
139	15.4	12.3	18.5





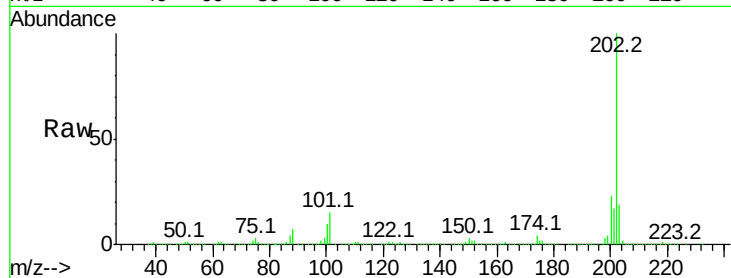
#74
 Fluoranthene
 Concen: 45.36 ng
 RT: 12.62 min Scan# 922
 Delta R.T. -0.00 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Instrument :
 BNA_F
 ClientSampled :
 CDMSH4

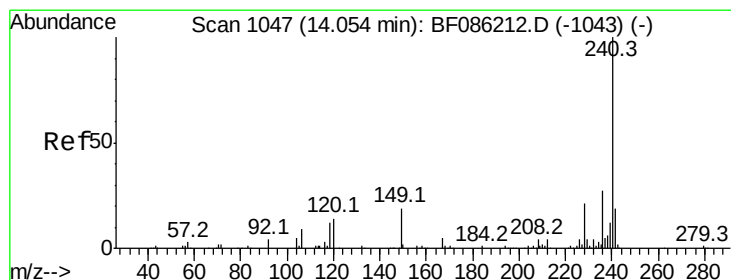
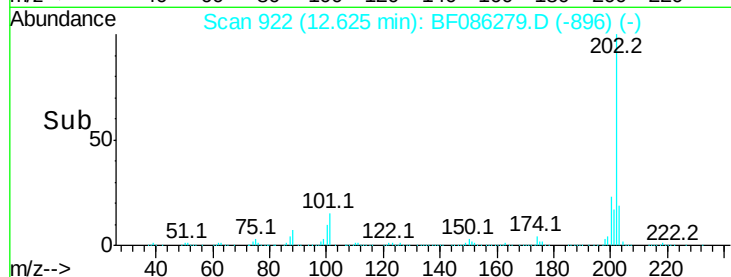
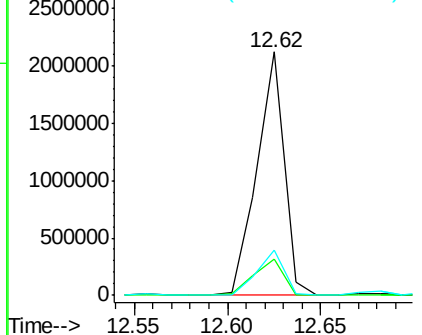
Tot Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	35.2
203	18.8	0.0	38.2

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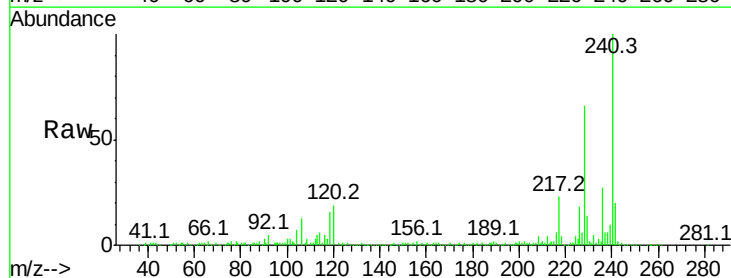


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

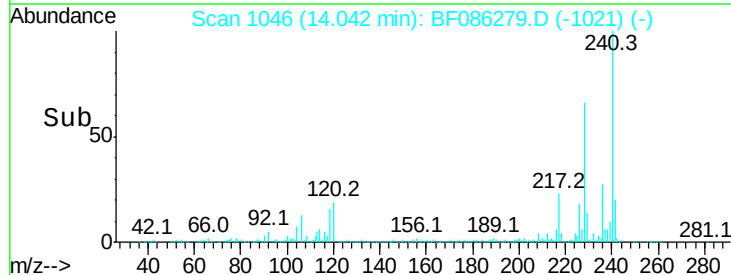
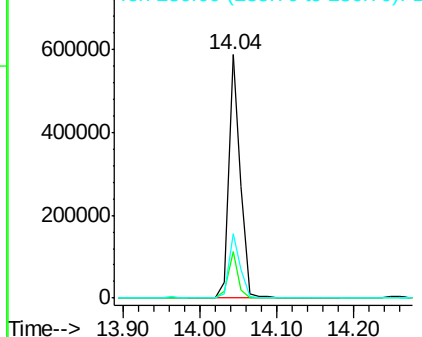


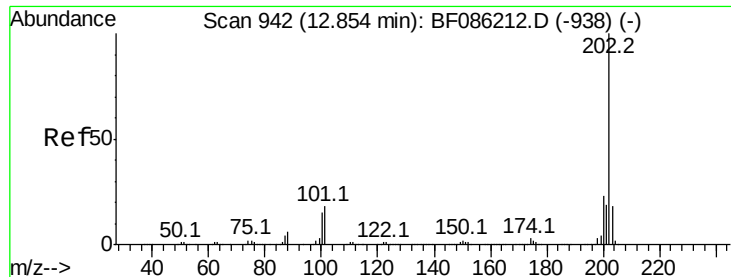
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.2	9.3	13.9#
236	26.6	21.1	31.7



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





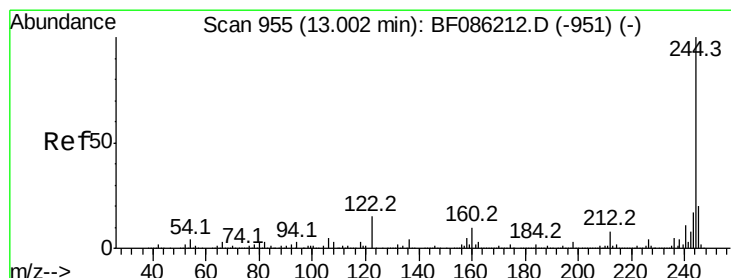
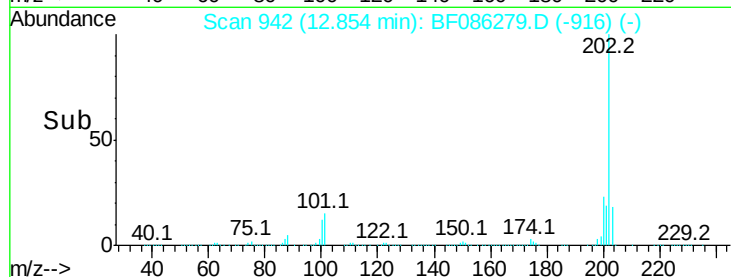
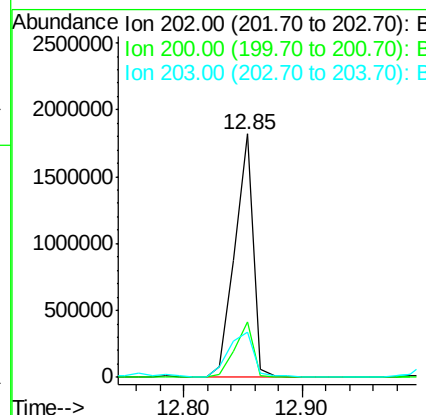
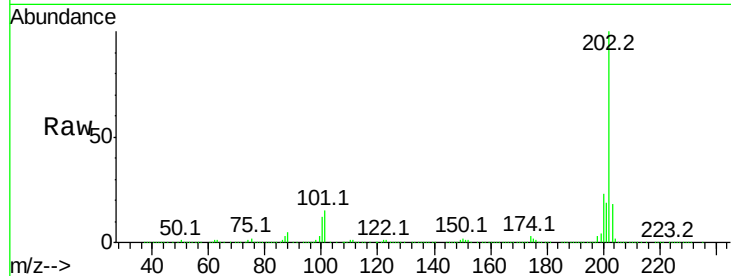
#77
Pvrene
Concen: 40.28 ng
RT: 12.85 min Scan# 942
Delta R.T. -0.00 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Instrument :
BNA_F
ClientSampled :
CDMSH4

Tot Ion	Ratio	Lower	Upper
202	100		
200	23.0	18.3	27.5
203	18.4	14.9	22.3

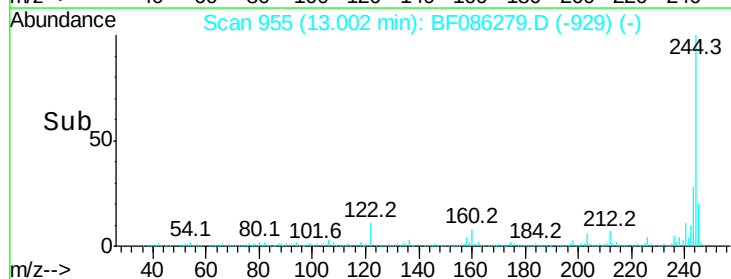
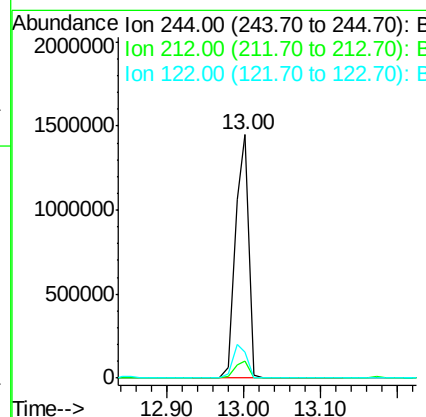
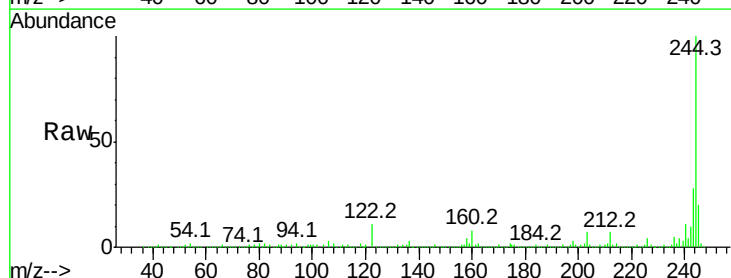
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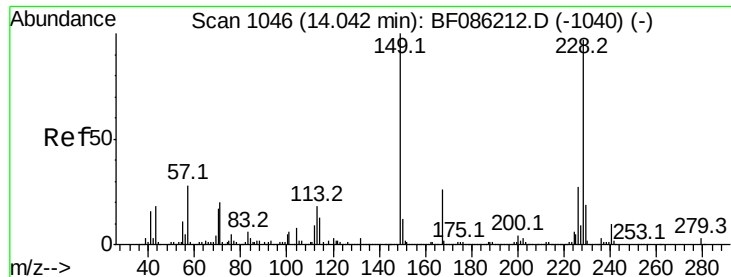
Sohil
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#78
Terphenyl-d14
Concen: 71.26 ng
RT: 13.00 min Scan# 955
Delta R.T. 0.00 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.4	9.6
122	10.6	11.7	17.5





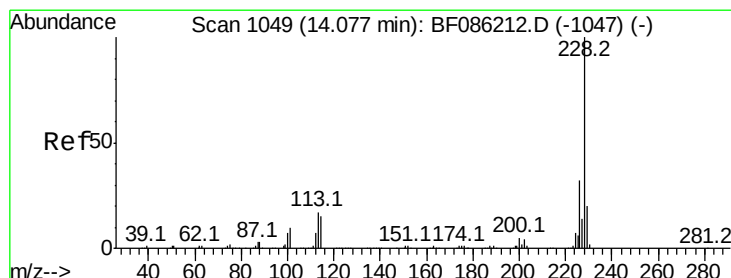
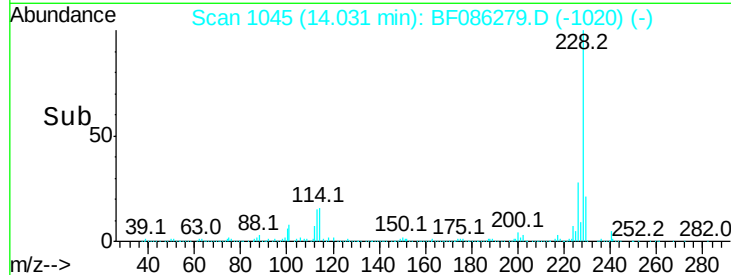
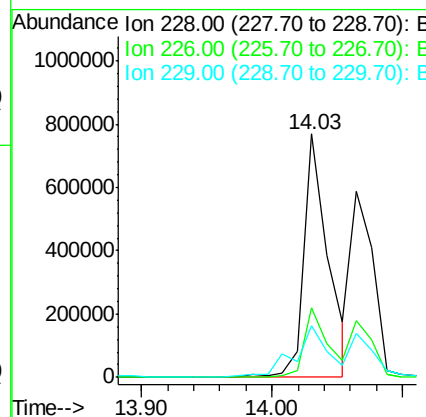
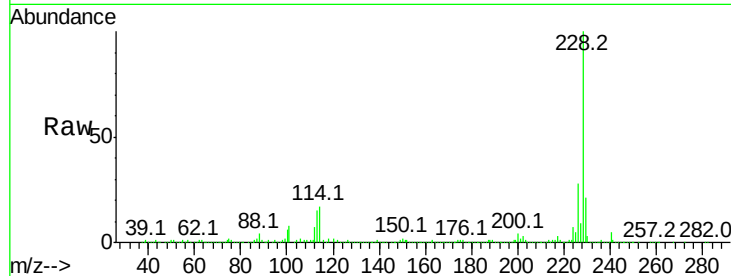
#80
 Benzo(a)anthracene
 Concen: 28.38 ng
 RT: 14.03 min Scan# 1045
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Instrument :
 BNA_F
 ClientSampled :
 CDMSH4

Tot Ion:	228	Resp:	983872
Ion Ratio	Lower	Upper	
228	100		
226	28.4	22.5	33.7
229	21.2	16.2	24.2

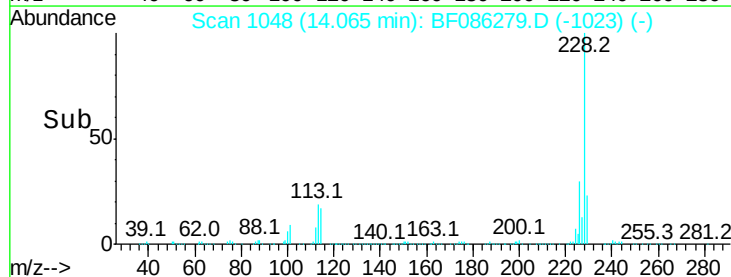
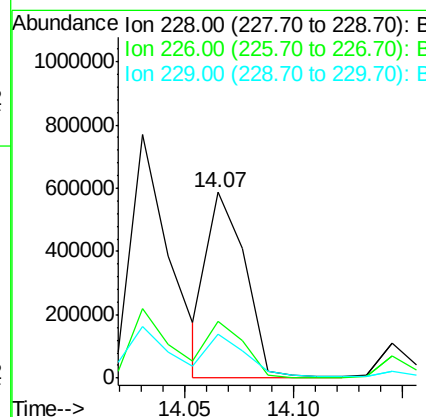
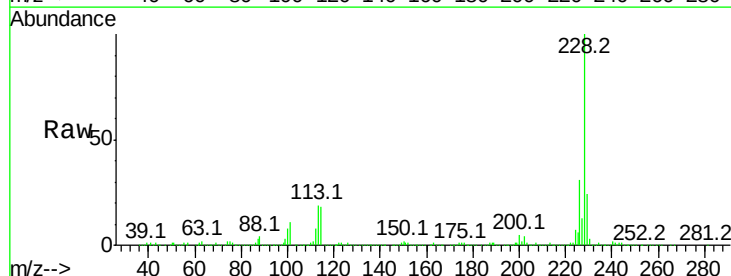
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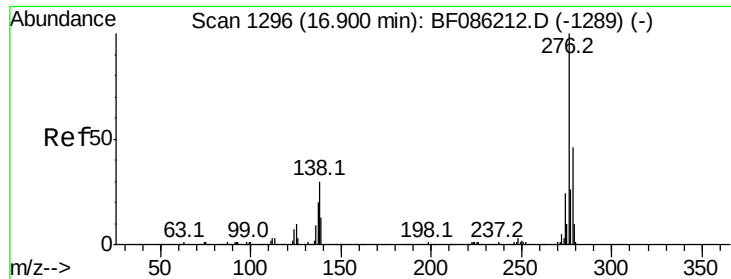
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#82
 Chrysene
 Concen: 18.95 ng
 RT: 14.07 min Scan# 1048
 Delta R.T. -0.01 min
 Lab File: BF086279.D
 Acq: 18 Apr 2016 13:54

Tgt Ion:	228	Resp:	700285
Ion Ratio	Lower	Upper	
228	100		
226	30.8	25.4	38.2
229	23.7	16.5	24.7





#85

Indeno(1,2,3-cd)pyrene

Concen: 11.61 ng

RT: 16.88 min Scan# 1294

Delta R.T. -0.02 min

Lab File: BF086279.D

Acq: 18 Apr 2016 13:54

Instrument :

BNA_F

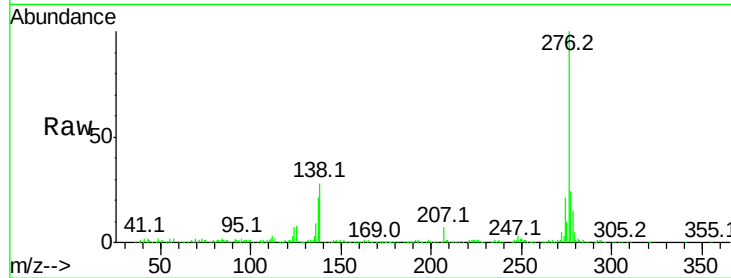
ClientSampleId :

CDMSH4

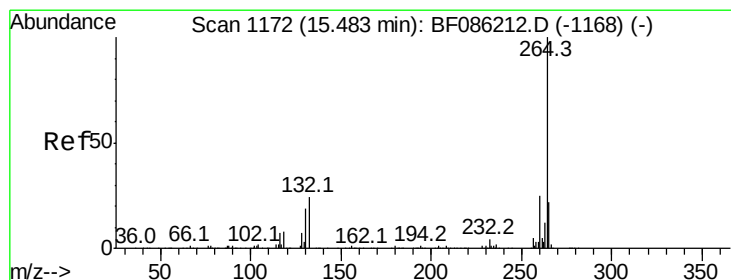
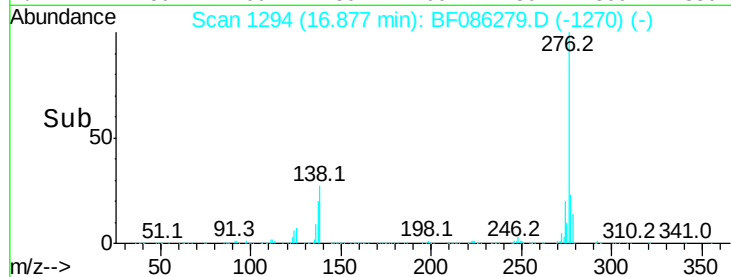
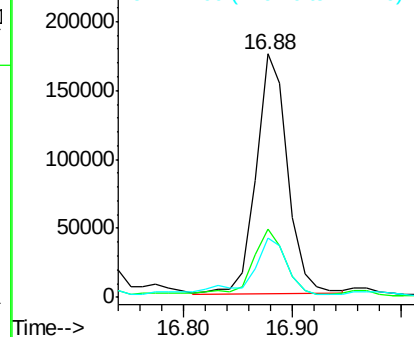
Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100		352631		
138	29.2		23.8	35.6	
277	27.5		20.2	30.2	

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Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

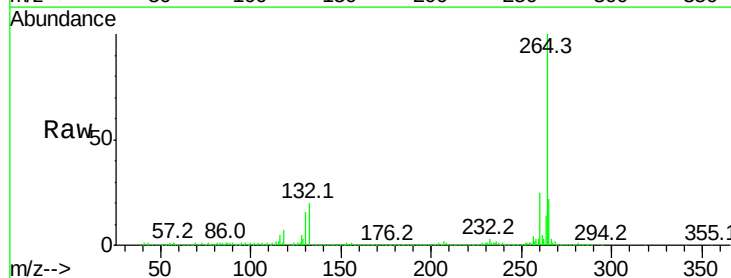
RT: 15.48 min Scan# 1172

Delta R.T. -0.00 min

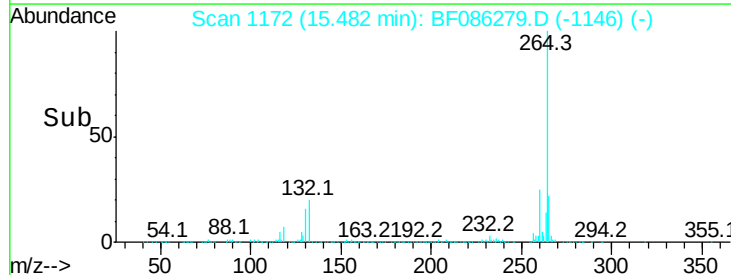
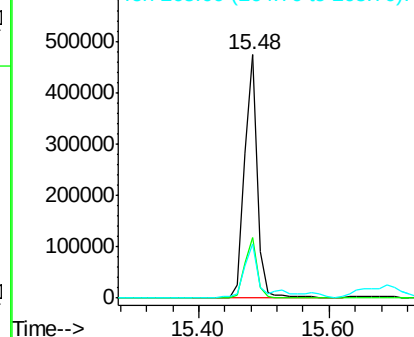
Lab File: BF086279.D

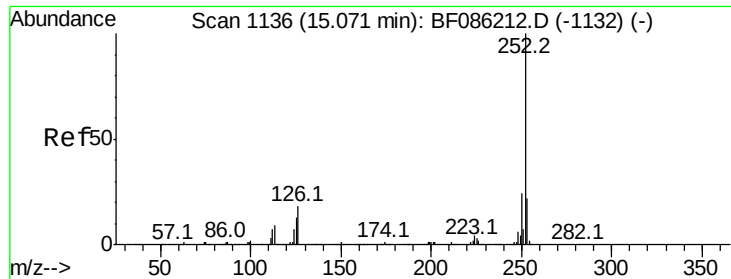
Acq: 18 Apr 2016 13:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
264	100		630765		
260	24.7		20.0	30.0	
265	22.0		17.4	26.0	



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





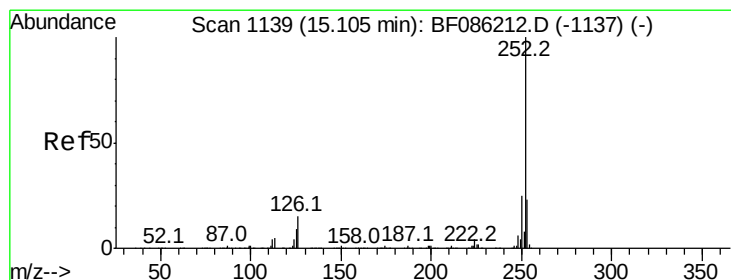
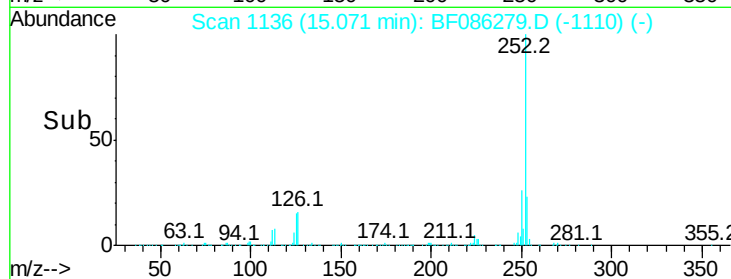
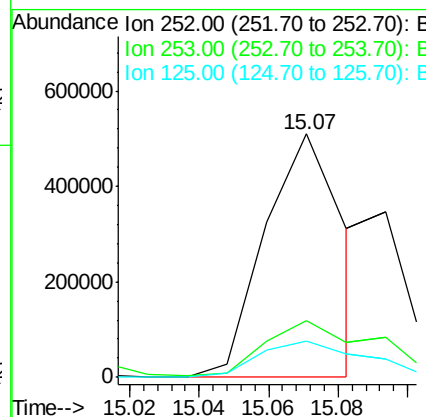
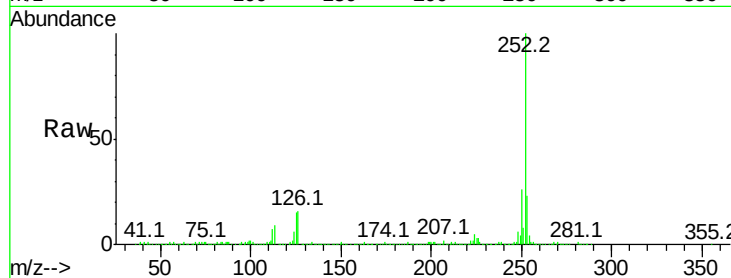
#87
Benzo(b)fluoranthene
Concen: 20.72 ng m
RT: 15.07 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Instrument :
BNA_F
ClientSampleId :
CDMSH4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.7	26.5
125	14.8	10.3	15.5

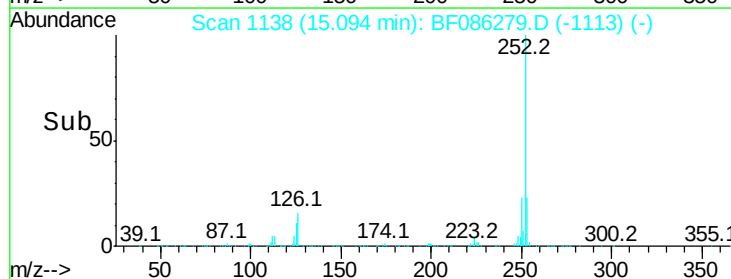
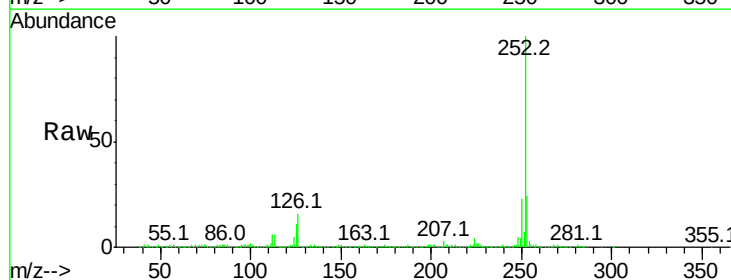
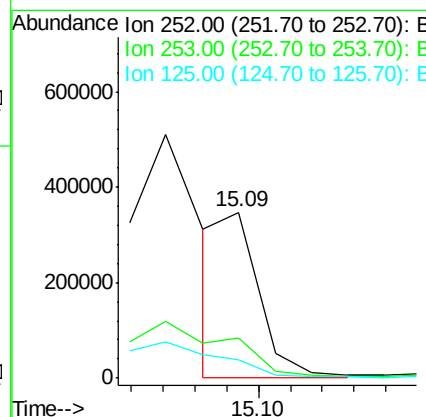
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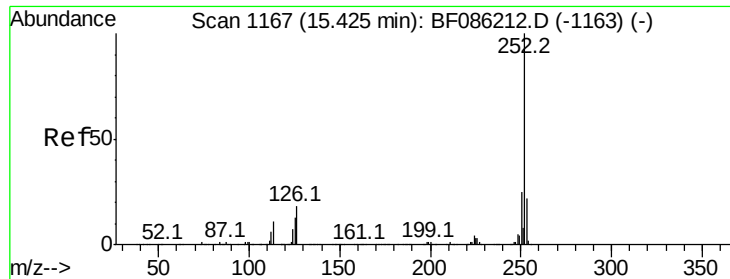
Sohil
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#88
Benzo(k)fluoranthene
Concen: 8.06 ng m
RT: 15.09 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	11.1	7.8	11.6





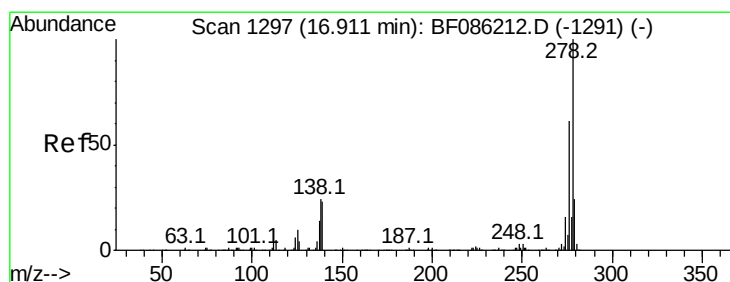
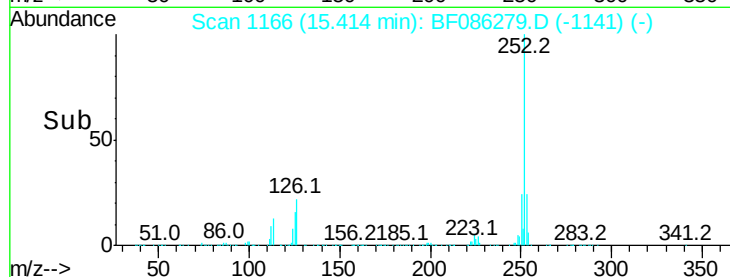
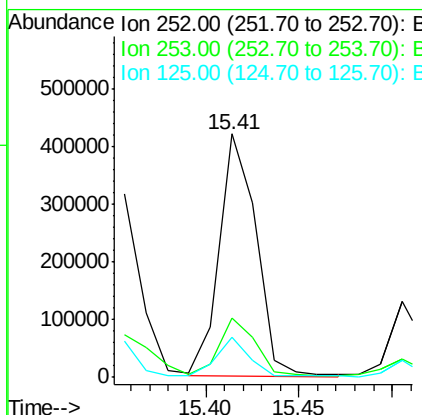
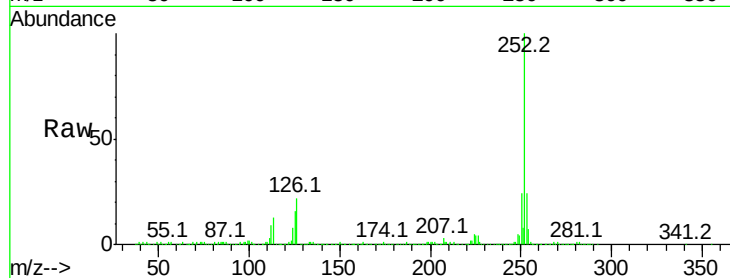
#89
Benzo(a)pyrene
Concen: 17.30 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.01 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Instrument :
BNA_F
ClientSampleId :
CDMSH4

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.8
125	16.4	11.2	16.8

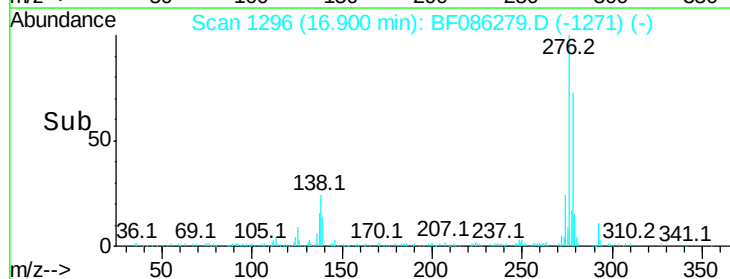
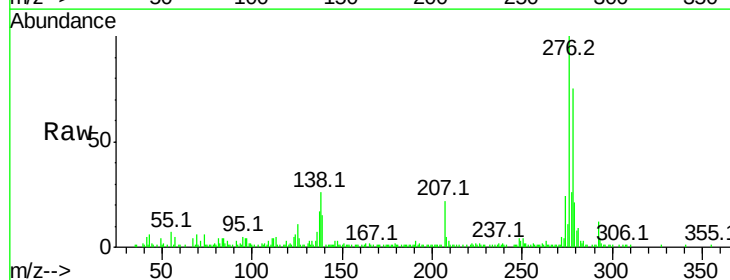
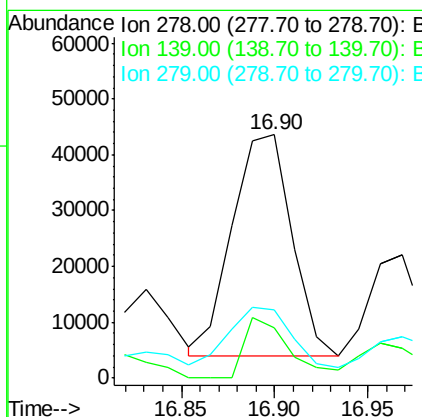
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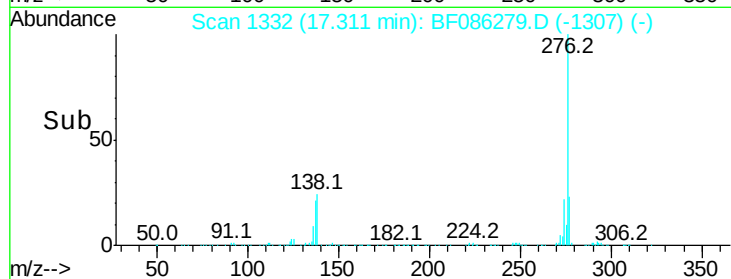
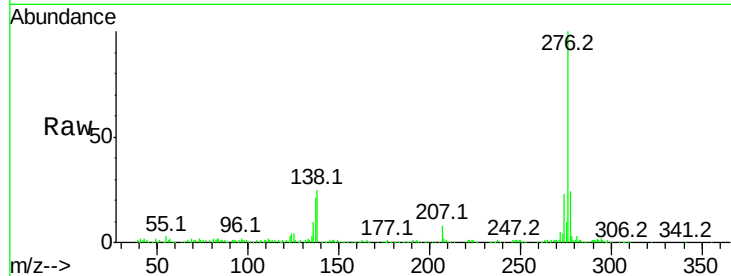
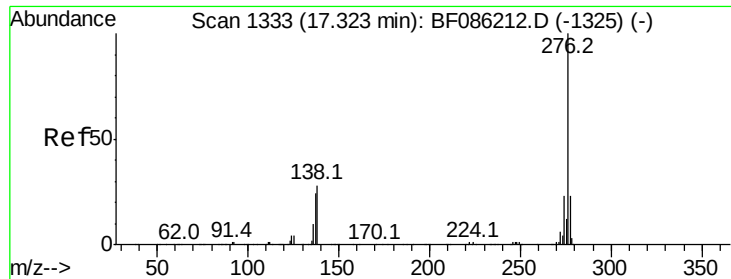
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 2.98 ng
RT: 16.90 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF086279.D
Acq: 18 Apr 2016 13:54

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.6	15.3	22.9
279	28.0	19.1	28.7





#91

Benzo(a,h,i)perylene

Concen: 9.99 ng

RT: 17.31 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF086279.D

Acq: 18 Apr 2016 13:54

Instrument :

BNA_F

ClientSampleId :

CDMSH4

Tot Ion:	276	Resp:	316290
Ion Ratio	Lower	Upper	
276	100		
277	24.1	19.0	28.6
138	25.0	19.6	29.4

Manual Integrations
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Sohil
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