

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE061319\
 Data File : BE099989.D
 Acq On : 13 Jun 2019 14:44
 Operator : JU/SJ
 Sample : K3270-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 DUP-6-2019

Manual Integrations
 APPROVED

mohammad
 6/14/2019 8:45:44 AM

Quant Time: Jun 14 04:00:28 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Jun 10 14:57:20 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	832	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	3103	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	2932	0.40	ng	-0.01
19) Phenanthrene-d10	17.20	188	8345	0.40	ng	-0.01
27) Chrysene-d12	21.39	240	11523	0.40	ng	-0.01
34) Perylene-d12	23.92	264	13587	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.35	112	195	0.09	ng	0.00
5) Phenol-d6	6.95	99	152m	0.05	ng	-0.01
8) Nitrobenzene-d5	8.95	82	609	0.21	ng	-0.01
11) 2-Methylnaphthalene-d10	12.20	152	770	0.14	ng	-0.01
14) 2,4,6-Tribromophenol	15.96	330	341	0.16	ng	-0.01
15) 2-Fluorobiphenyl	13.07	172	2413	0.22	ng	-0.03
25) Fluoranthene-d10	19.24	212	15192	0.12	ng	-0.01
29) Terphenyl-d14	19.84	244	6049	0.29	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.68	128	31848789	950.820	ng	99
12) 2-Methylnaphthalene	12.27	142	373485	68.631	ng	99
16) Acenaphthylene	14.18	152	179626	12.314	ng	98
17) Acenaphthene	14.53	154	213095	26.822	ng	99
18) Fluorene	15.50	166	251158	21.062	ng	99
22) Pentachlorophenol	16.87	266	91	0.339	ng	97
23) Phenanthrene	17.26	178	532651	26.304	ng	99
24) Anthracene	17.34	178	91688	4.939	ng	# 93
26) Fluoranthene	19.28	202	323121	9.389	ng	98
28) Pvrene	19.63	202	274310	9.061	ng	98
30) Benzo(a)anthracene	21.38	228	161026	4.676	ng	94
31) Chrysene	21.43	228	118584	3.331	ng	96
32) Bis(2-ethylhexyl)phthalate	21.29	149	5340	0.108	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.60	276	126911	3.005	ng	# 97
35) Benzo(b)fluoranthene	23.14	252	194324	5.104	ng	99
36) Benzo(k)fluoranthene	23.19	252	72420m	1.818	ng	
37) Benzo(a)pvrene	23.81	252	155715m	4.152	ng	
38) Dibenzo(a,h)anthracene	26.61	278	30830	0.816	ng	98
39) Benzo(g,h,i)perylene	27.43	276	148530	3.806	ng	98

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

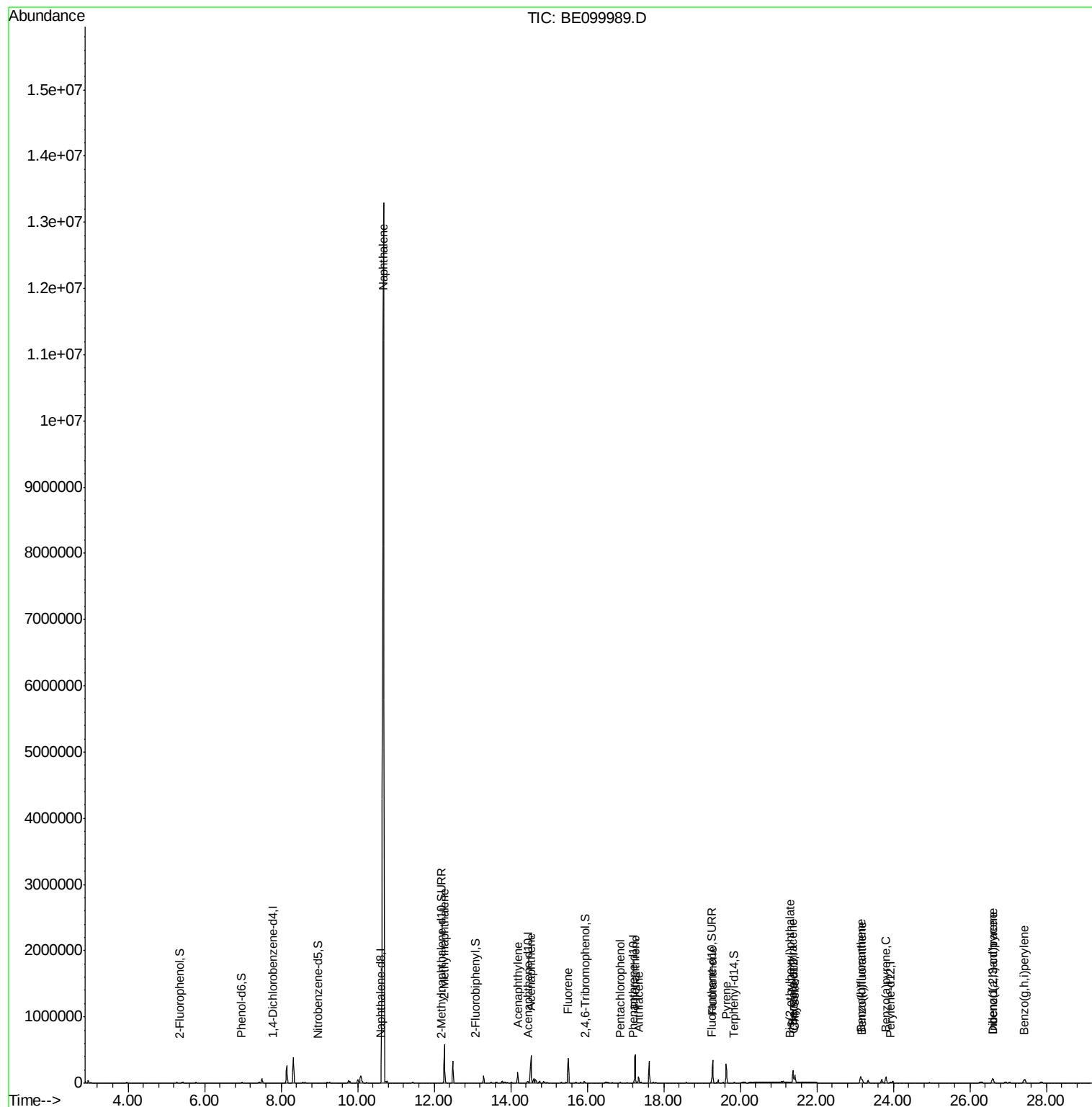
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE061319\
Data File : BE099989.D
Acq On : 13 Jun 2019 14:44
Operator : JU/SJ
Sample : K3270-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

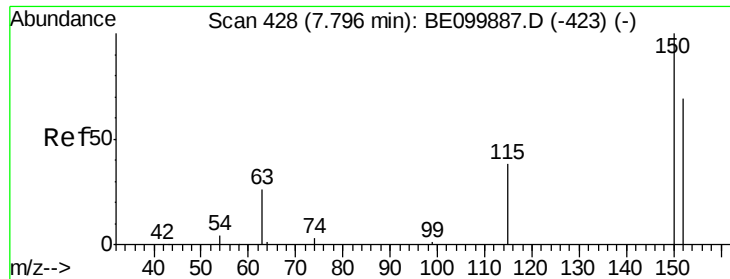
Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

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6/14/2019 8:45:44 AM

Quant Time: Jun 14 04:00:28 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 10 14:57:20 2019
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#1

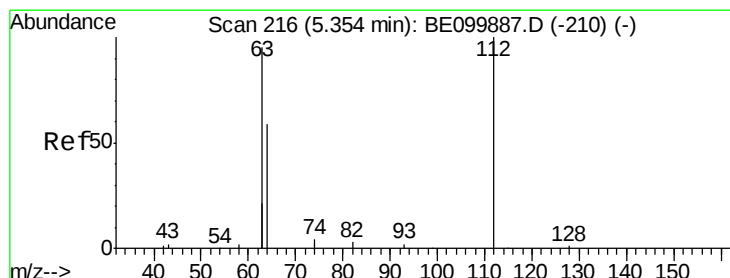
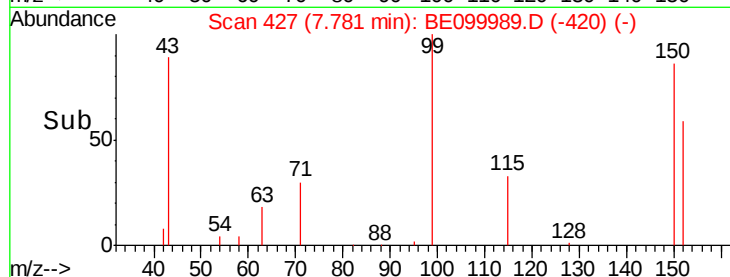
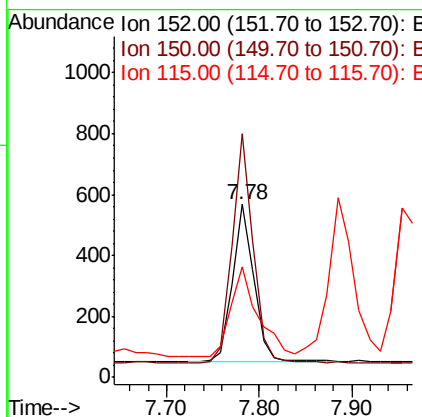
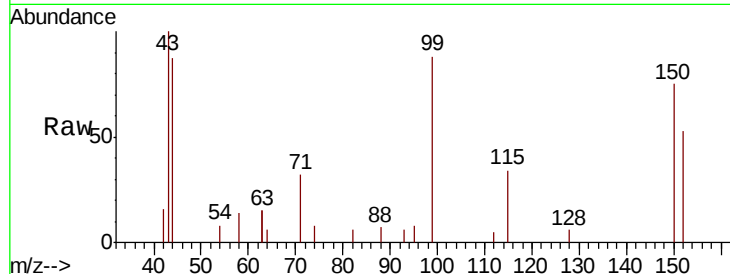
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.78 min Scan# 427
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion	Ratio	Lower	Upper
152	100		
150	140.9	111.0	166.6
115	64.0	50.7	76.1

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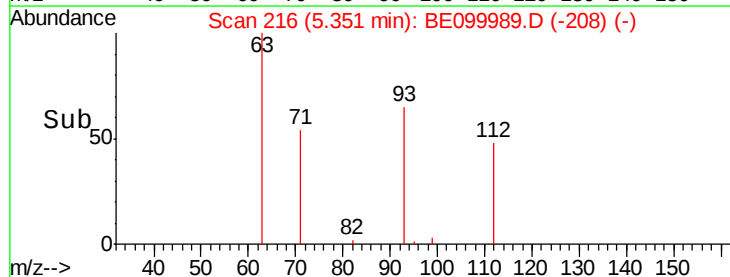
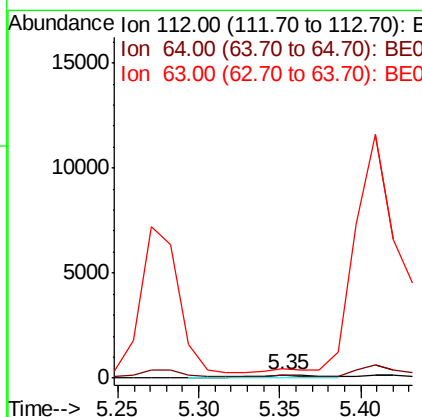
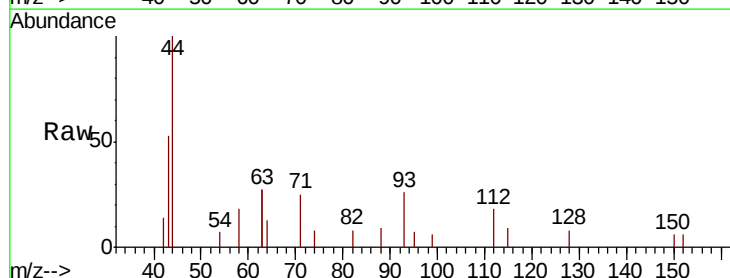
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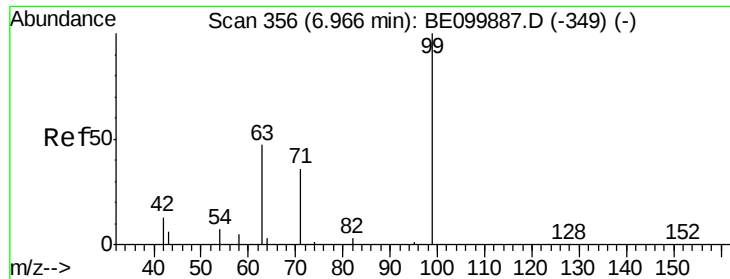


#4

2-Fluorophenol
Concen: 0.087 ng
RT: 5.35 min Scan# 216
Delta R.T. -0.00 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.7	44.1	66.1
63	0.0	87.8	131.6#





#5

Phenol-d6

Concen: 0.053 ng/ml

RT: 6.95 min Scan# 355

Delta R.T. -0.01 min

Lab File: BE099989.D

Acq: 13 Jun 2019 14:44

Instrument :

BNA_E

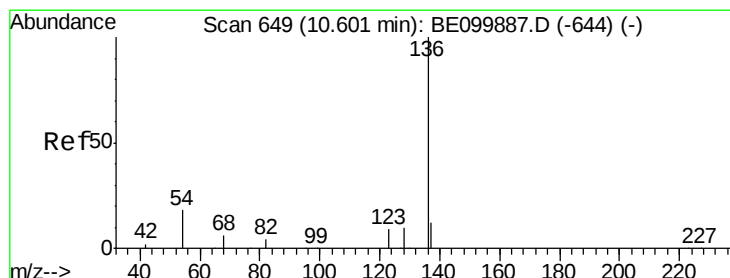
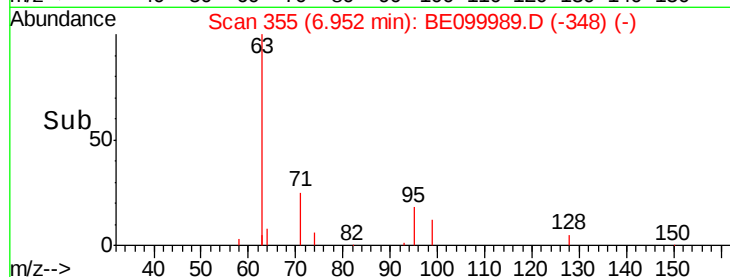
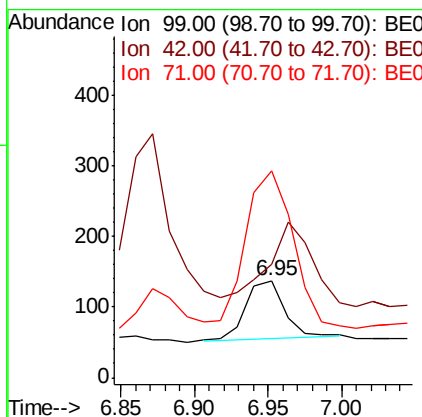
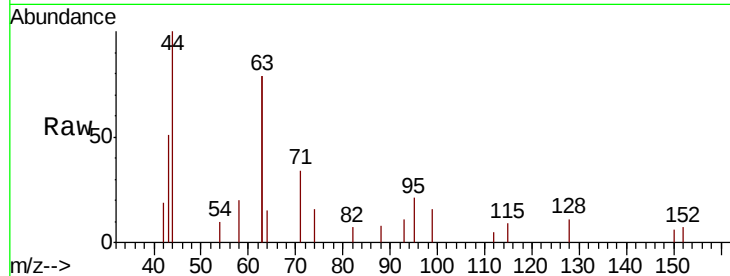
ClientSampled :

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Tot Ion:	99	Resp:	152
Ion	Ratio	Lower	Upper
99	100		
42	257.2	15.9	23.9#
71	437.5	34.6	52.0#

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#7

Naphthalene-d8

Concen: 0.400 ng

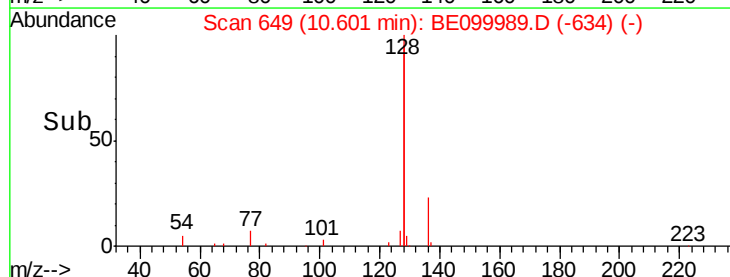
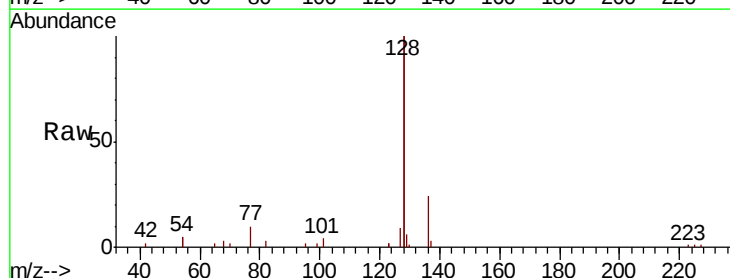
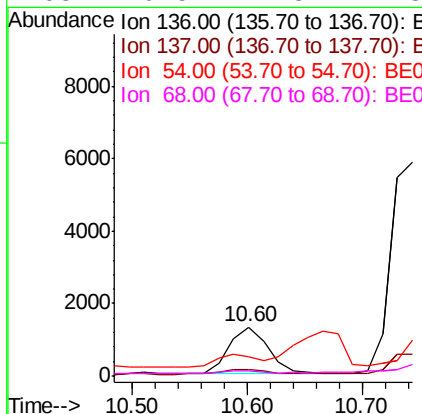
RT: 10.60 min Scan# 649

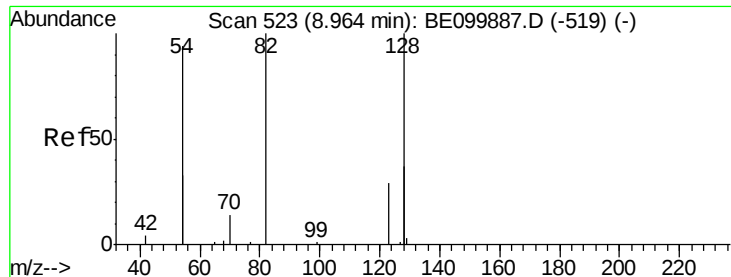
Delta R.T. -0.00 min

Lab File: BE099989.D

Acq: 13 Jun 2019 14:44

Tgt Ion:	136	Resp:	3103
Ion	Ratio	Lower	Upper
136	100		
137	14.3	12.3	18.5
54	38.5	28.2	42.4
68	10.5	7.8	11.8





#8

Nitrobenzene-d5

Concen: 0.207 ng

RT: 8.95 min Scan# 522

Delta R.T. -0.01 min

Lab File: BE099989.D

Acq: 13 Jun 2019 14:44

Instrument :

BNA_E

ClientSampleId :

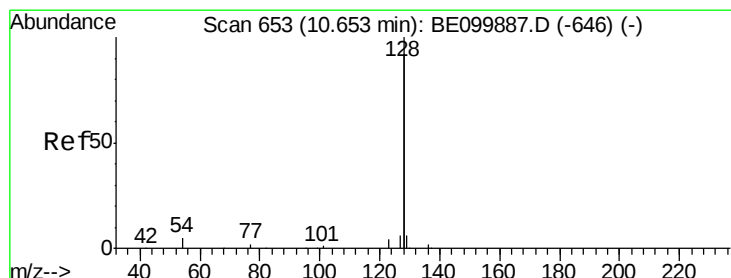
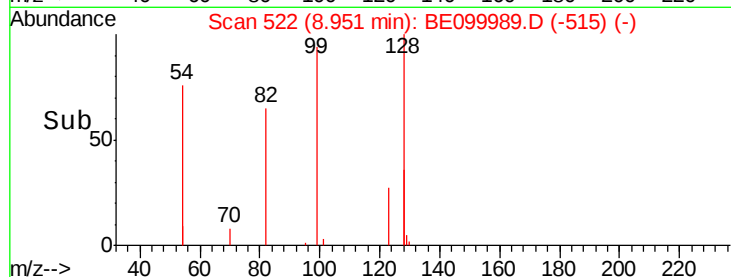
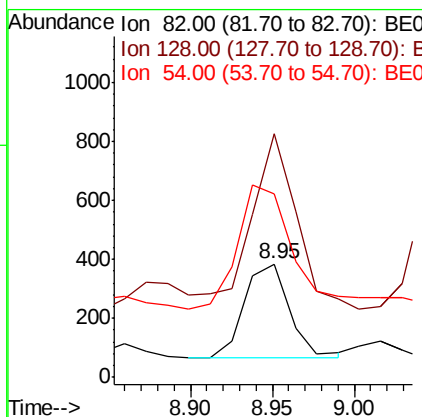
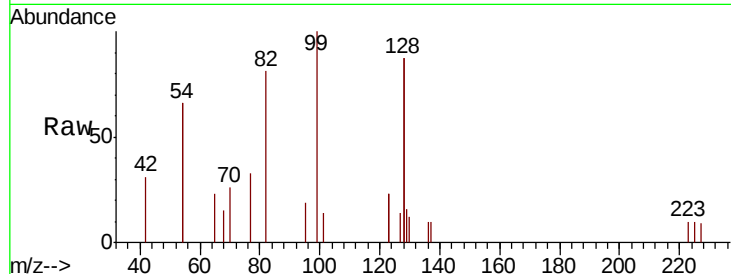
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Tot Ion: 82 Resp: 609

Ion	Ratio	Lower	Upper
82	100		
128	214.5	137.3	205.9#
54	162.1	129.7	194.5

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#9

Naphthalene

Concen: 950.820 ng

RT: 10.68 min Scan# 655

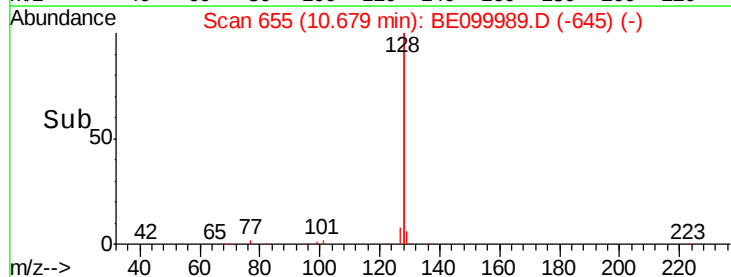
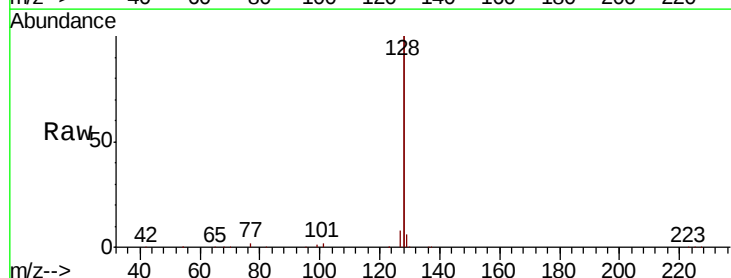
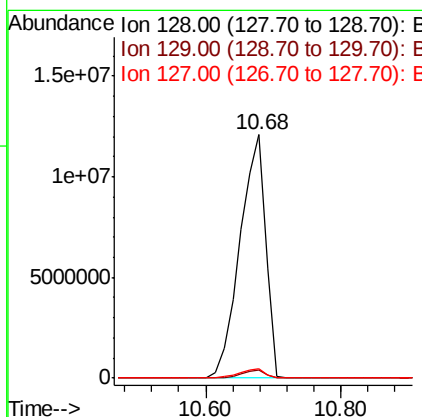
Delta R.T. 0.03 min

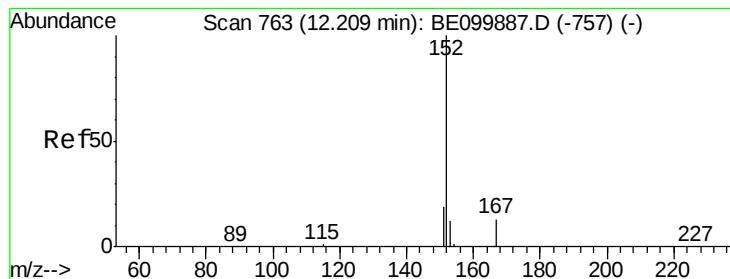
Lab File: BE099989.D

Acq: 13 Jun 2019 14:44

Tgt Ion: 128 Resp: 31848789

Ion	Ratio	Lower	Upper
128	100		
129	3.2	3.0	4.6
127	4.0	3.4	5.0





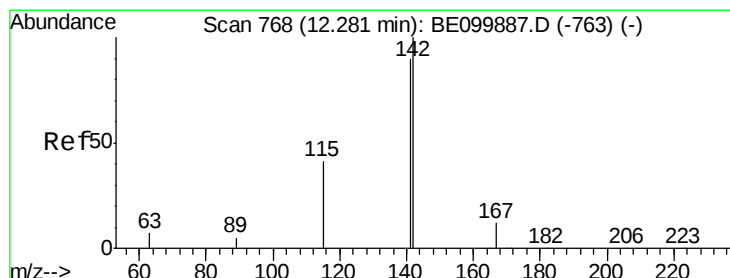
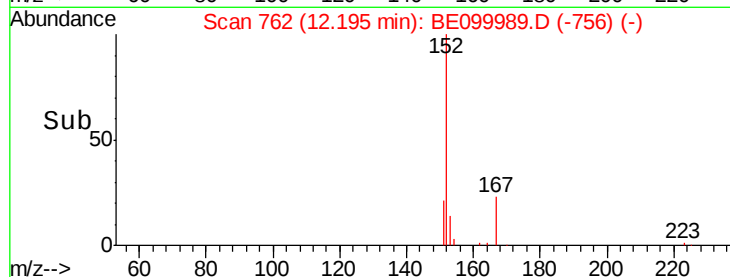
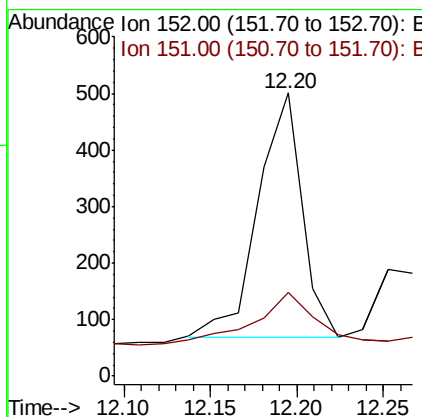
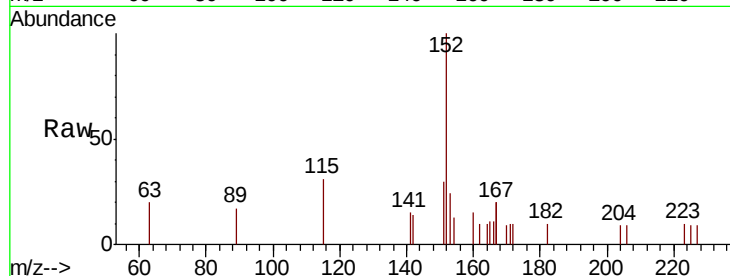
#11
2-Methylnaphthalene-d10
Concen: 0.142 ng
RT: 12.20 min Scan# 762
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampled :
DUP-6-2019

Tot Ion	Ion	Ratio	Lower	Upper
152	100			
151	24.7	15.2	22.8#	

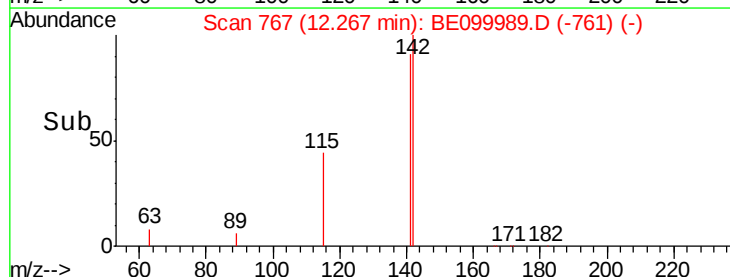
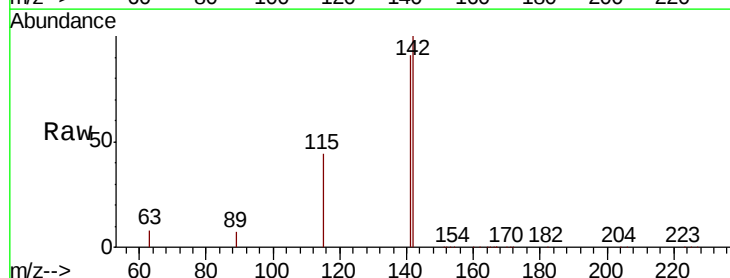
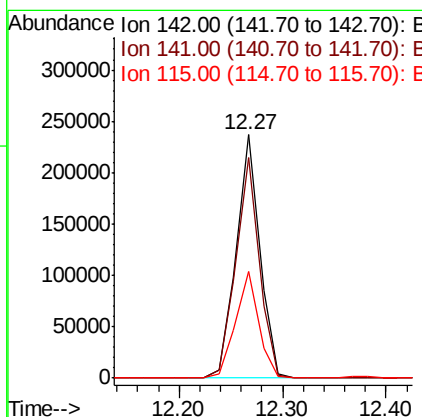
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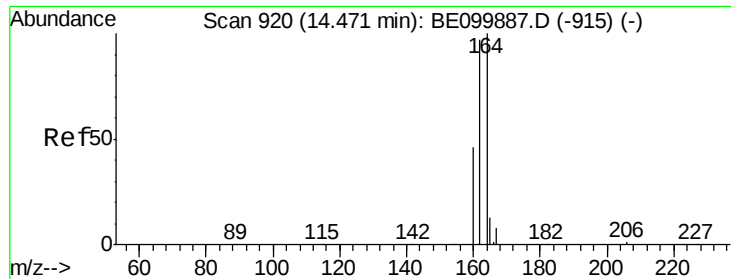
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#12
2-Methylnaphthalene
Concen: 68.631 ng
RT: 12.27 min Scan# 767
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Tgt Ion	Ion	Ratio	Lower	Upper
142	100			
141	90.8	72.3	108.5	
115	43.6	36.4	54.6	





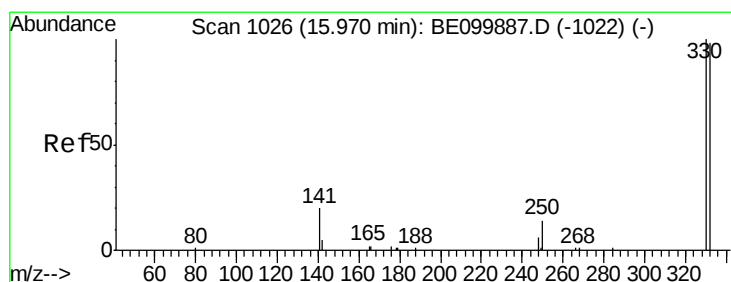
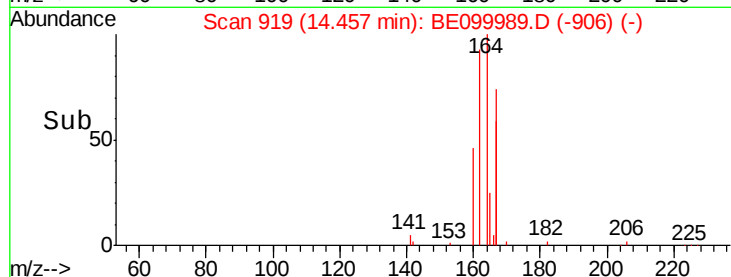
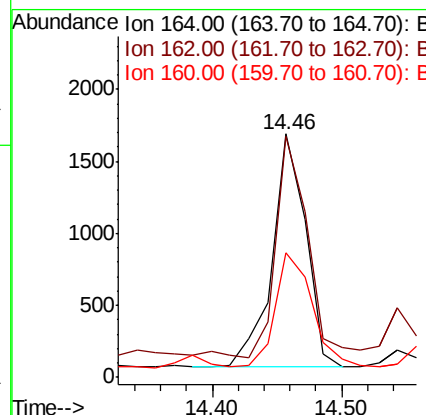
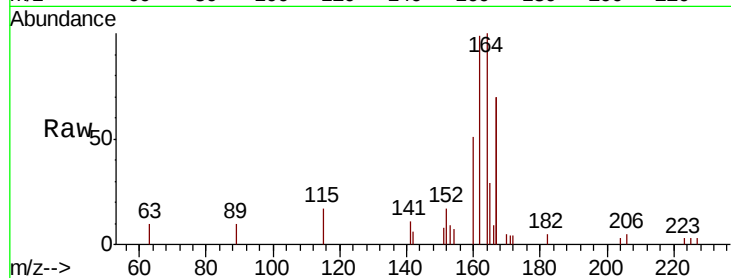
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion	Ratio	Lower	Upper
164	100		
162	98.8	77.8	116.8
160	51.0	38.2	57.4

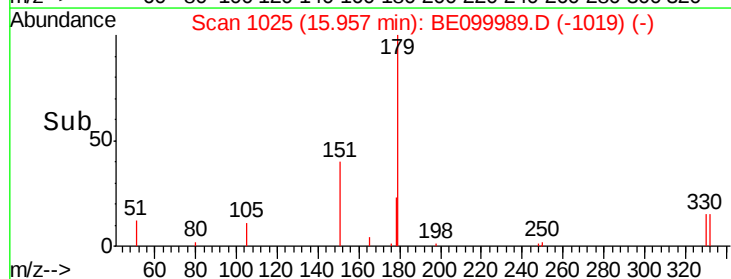
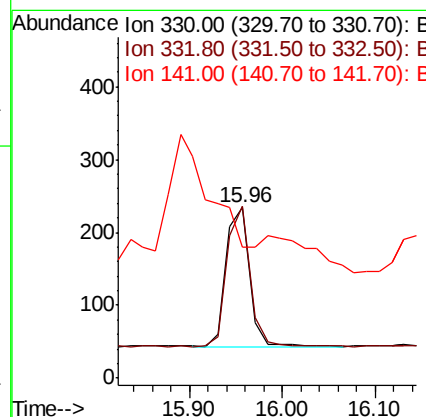
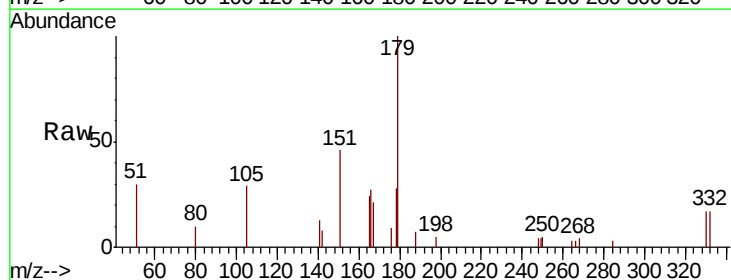
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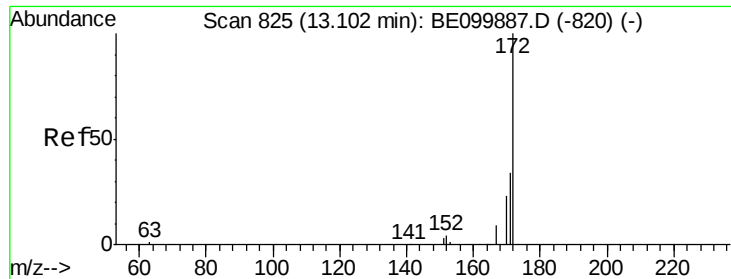
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#14
2,4,6-Tribromophenol
Concen: 0.157 ng
RT: 15.96 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Lower	Upper
330	100		
332	100.0	76.7	115.1
141	0.0	21.0	31.6#





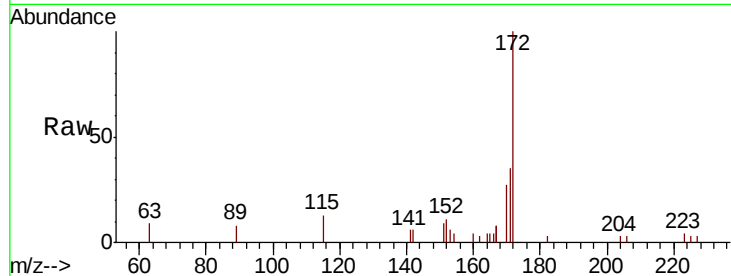
#15
2-Fluorobiphenyl
Concen: 0.217 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.03 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.2	43.8
170	26.7	21.2	31.8

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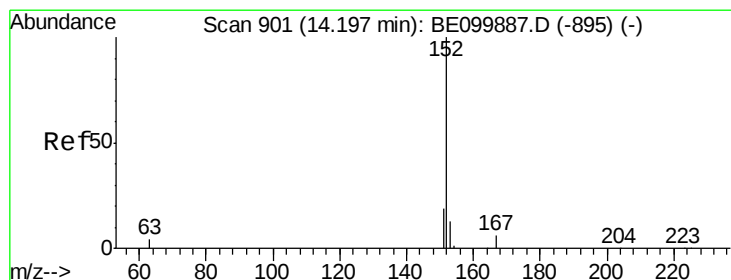
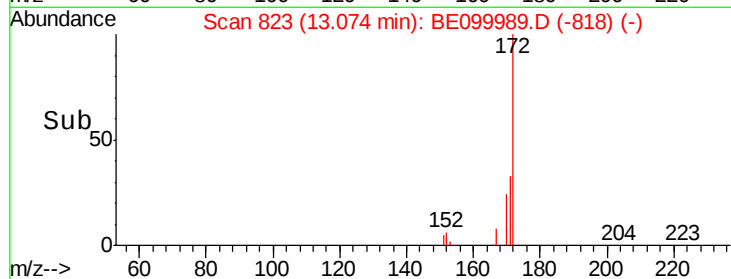
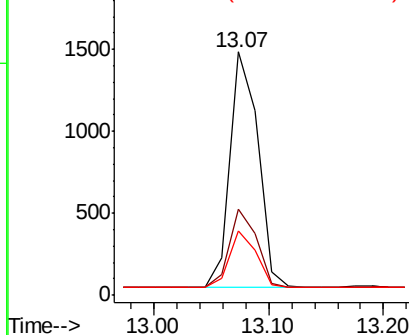


Abundance

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



#16
Acenaphthylene
Concen: 12.314 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

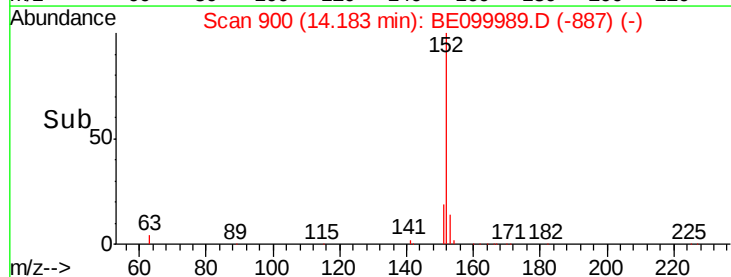
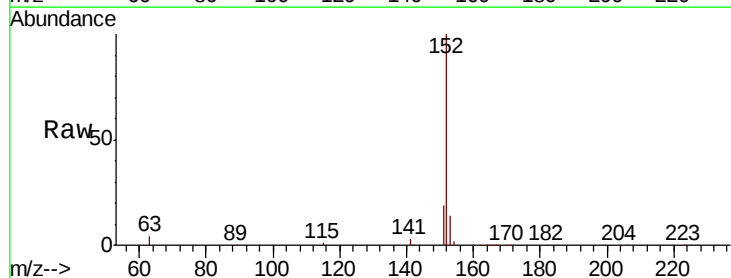
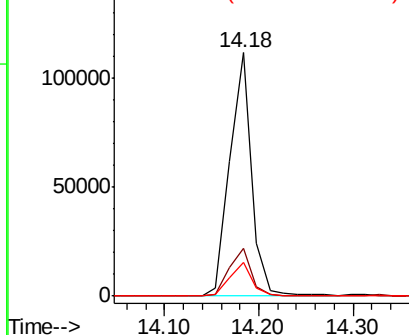
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.5	23.3
153	14.1	10.2	15.2

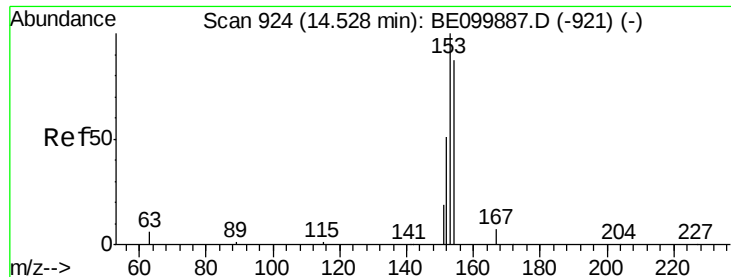
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





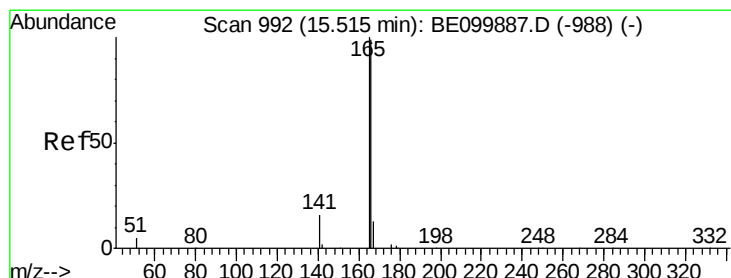
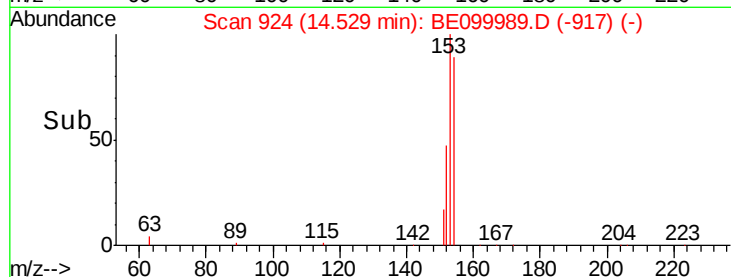
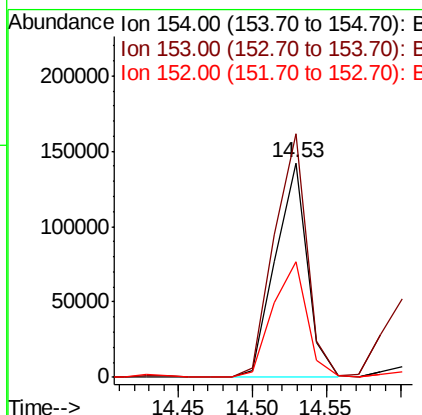
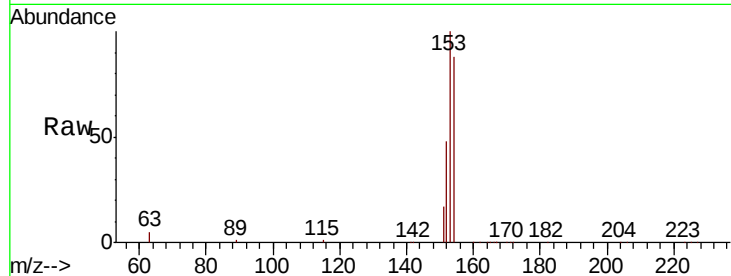
#17
Acenaphthene
Concen: 26.822 ng
RT: 14.53 min Scan# 924
Delta R.T. 0.00 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion	Ratio	Lower	Upper
154	100		
153	116.5	93.1	139.7
152	57.3	47.0	70.4

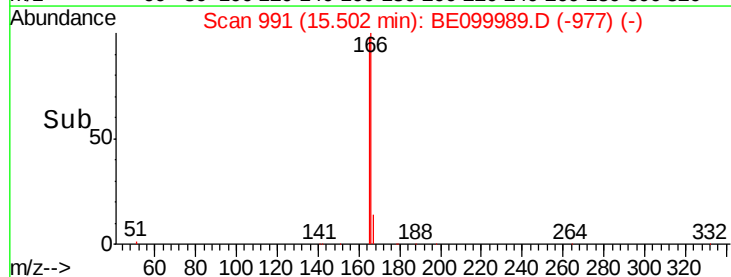
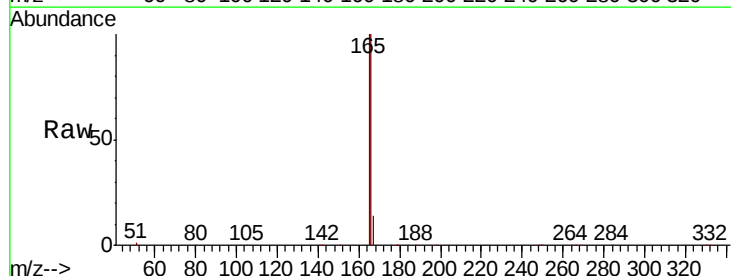
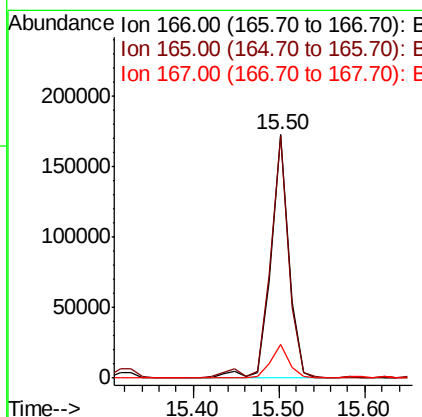
Manual Integrations
APPROVED

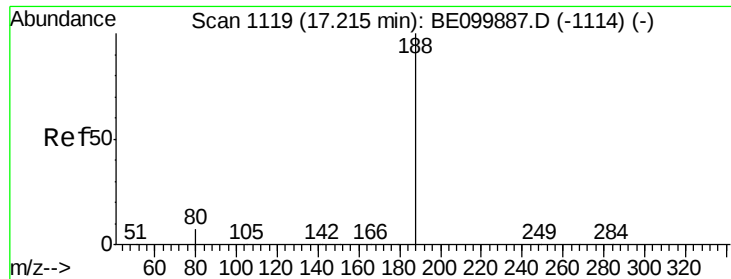
mohammad
6/14/2019 8:45:44 AM



#18
Fluorene
Concen: 21.062 ng
RT: 15.50 min Scan# 991
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.1	81.8	122.8
167	14.2	11.2	16.8





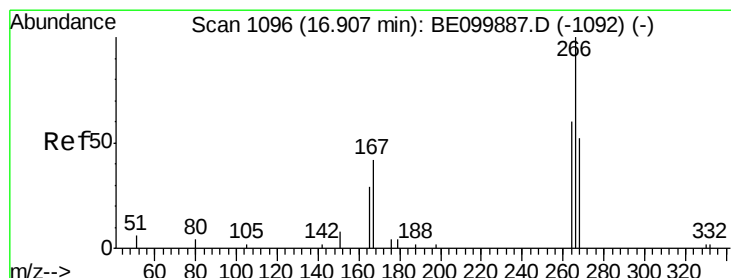
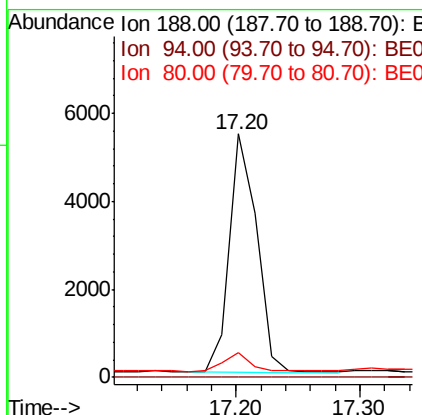
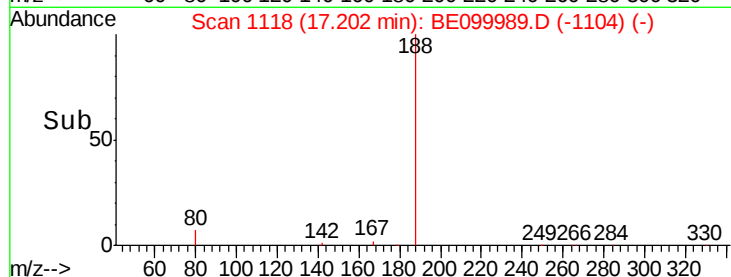
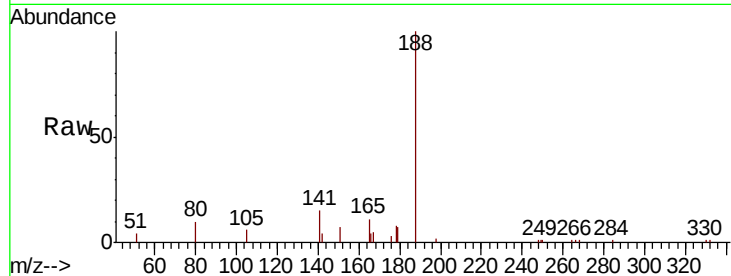
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	6.4	9.6#

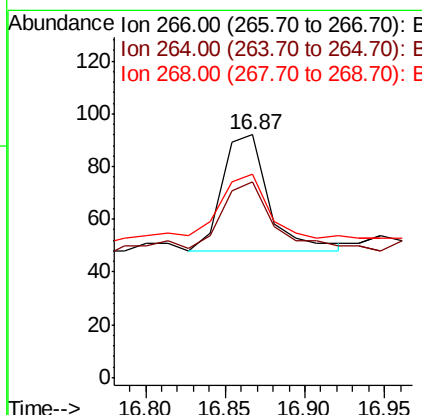
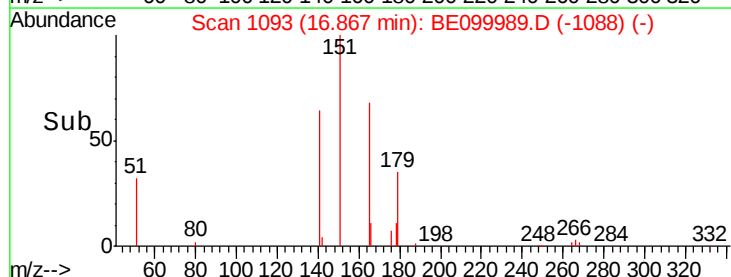
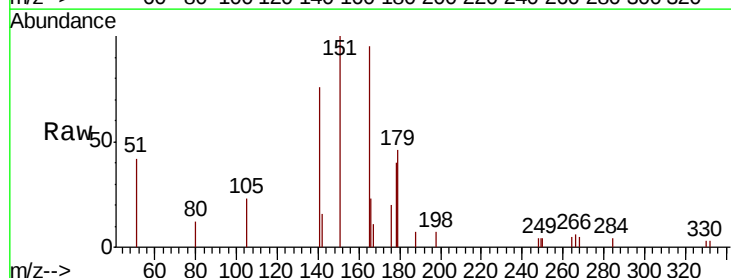
Manual Integrations
APPROVED

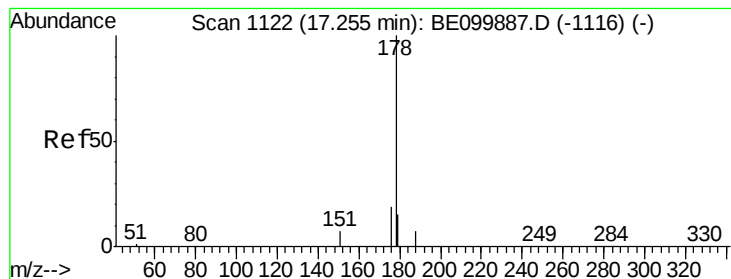
mohammad
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#22
Pentachlorophenol
Concen: 0.339 ng
RT: 16.87 min Scan# 1093
Delta R.T. -0.04 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Lower	Upper
266	100		
264	80.4	62.2	93.2
268	83.7	65.5	98.3





#23

Phenanthrene

Concen: 26.304 ng

RT: 17.26 min Scan# 1122

Delta R.T. 0.00 min

Lab File: BE099989.D

Acq: 13 Jun 2019 14:44

Instrument :

BNA_E

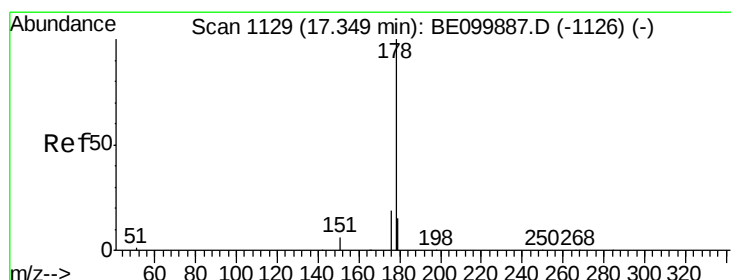
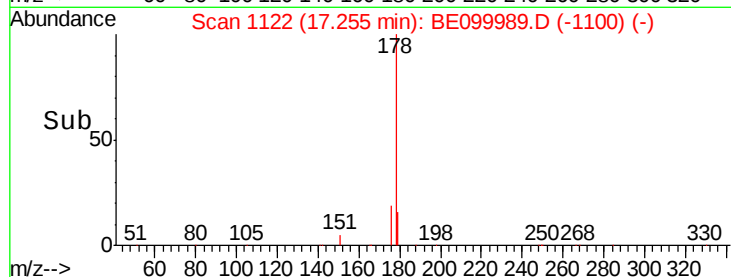
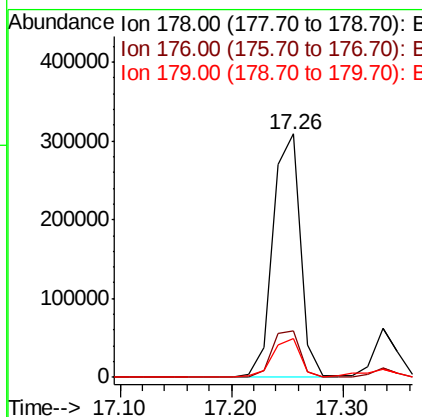
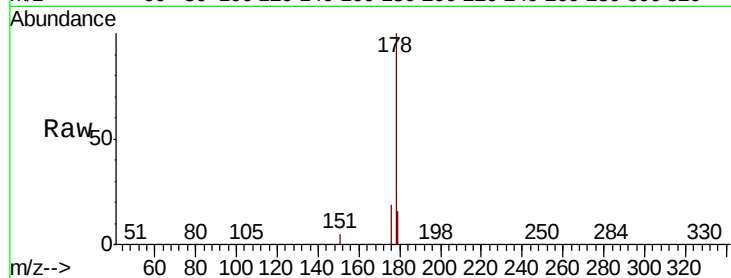
ClientSampleId :

DUP-6-2019

Tot Ion:	178	Resp:	532651
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.8	23.8
179	16.4	12.4	18.6

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#24

Anthracene

Concen: 4.939 ng

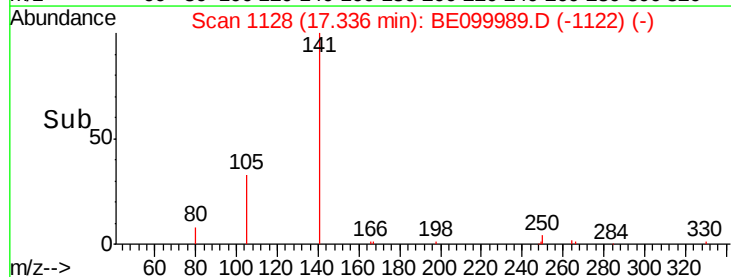
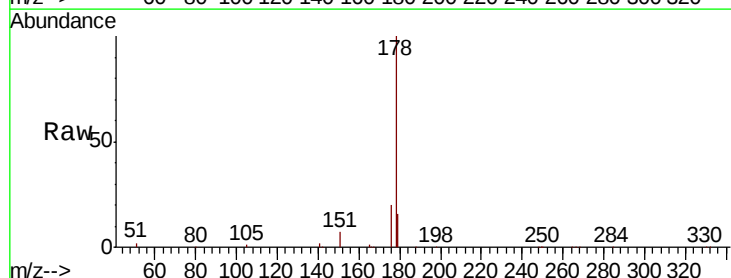
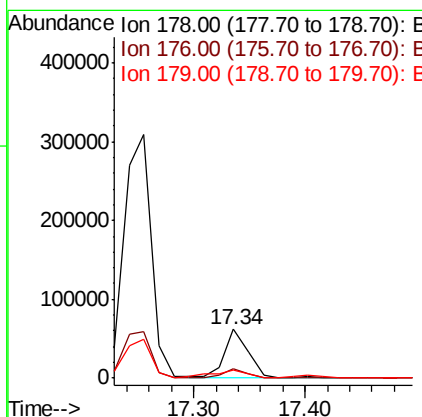
RT: 17.34 min Scan# 1128

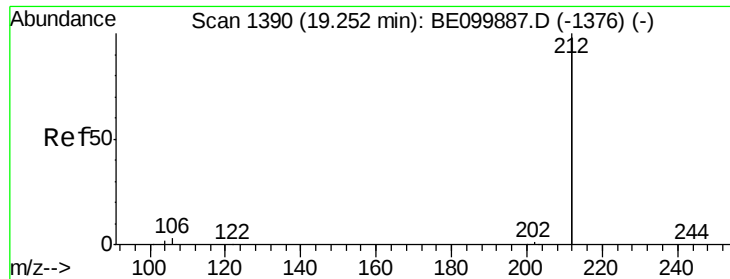
Delta R.T. -0.01 min

Lab File: BE099989.D

Acq: 13 Jun 2019 14:44

Tgt Ion:	178	Resp:	91688
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.6	22.0
179	21.8	12.3	18.5#





#25

Fluoranthene-d10

Concen: 0.125 ng

RT: 19.24 min Scan# 1388

Delta R.T. -0.01 min

Lab File: BE099989.D

Acq: 13 Jun 2019 14:44

Instrument :

BNA_E

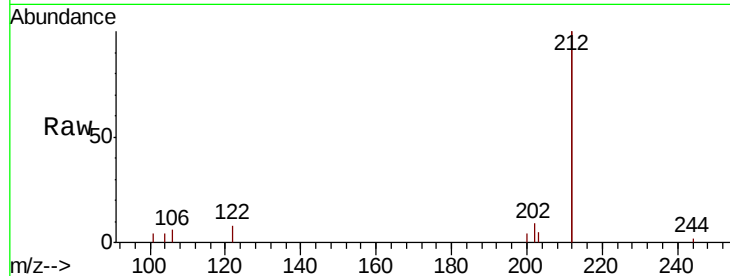
ClientSampleId :

DUP-6-2019

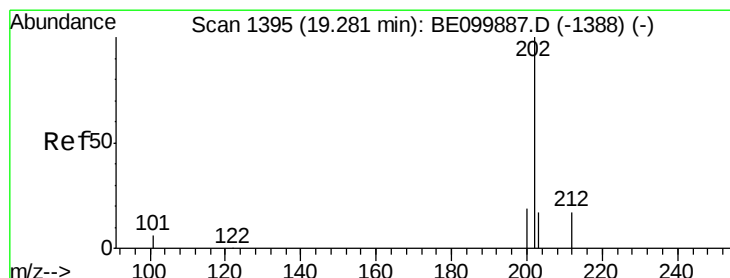
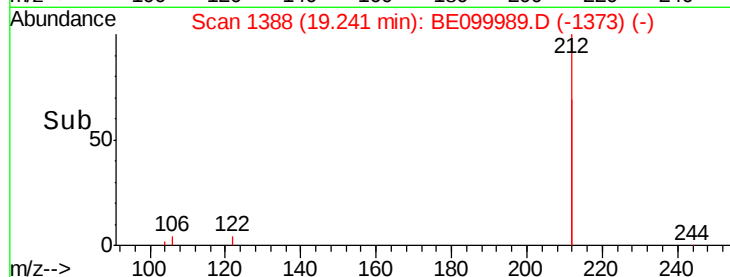
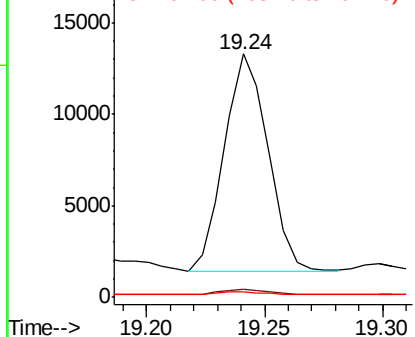
Tot Ion:	212	Resp:	15192
Ion Ratio	Lower	Upper	
212	100		
106	3.2	1.4	2.2#
104	2.1	0.9	1.3#

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Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 9.389 ng

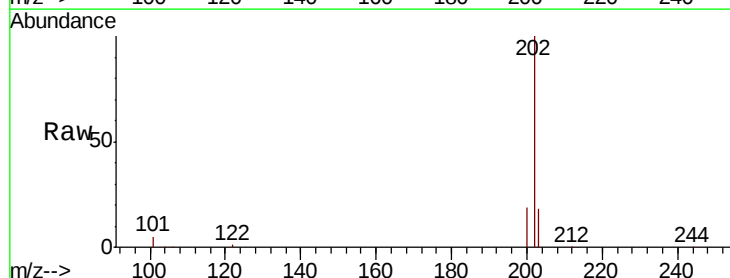
RT: 19.28 min Scan# 1394

Delta R.T. -0.01 min

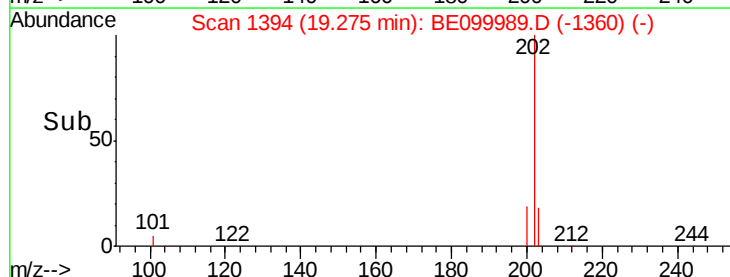
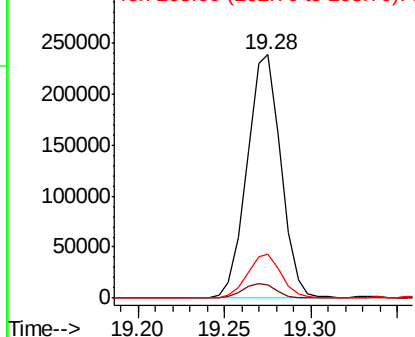
Lab File: BE099989.D

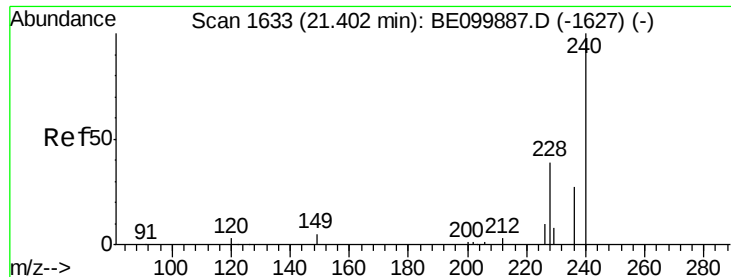
Acq: 13 Jun 2019 14:44

Tgt Ion:	202	Resp:	323121
Ion Ratio	Lower	Upper	
202	100		
101	6.0	5.4	8.0
203	17.6	13.2	19.8



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





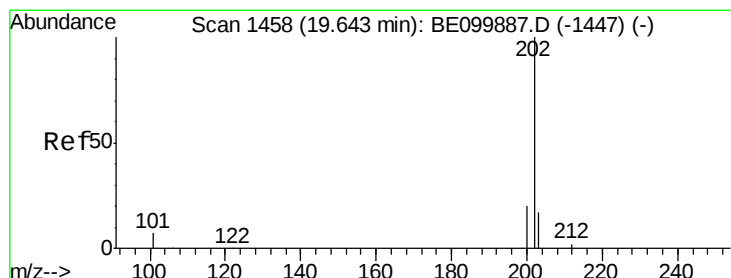
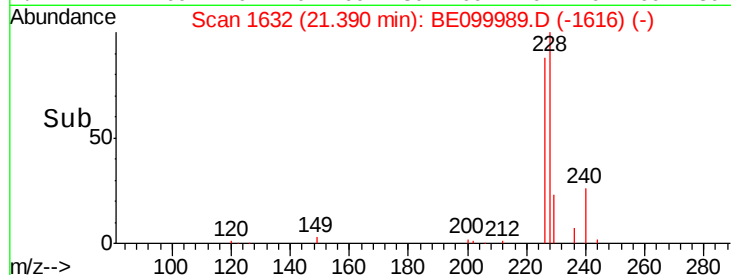
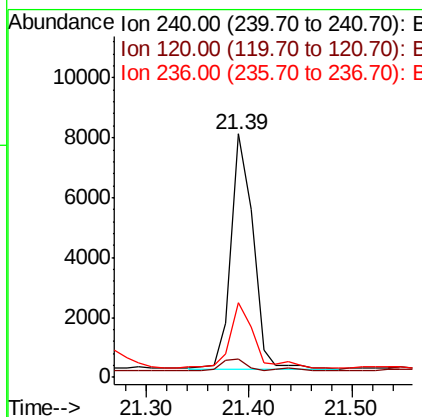
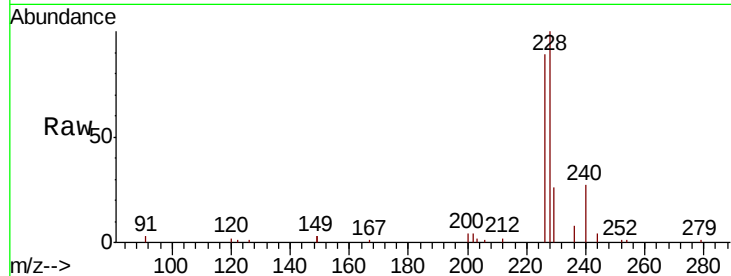
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.39 min Scan# 1632
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion	Ratio	Lower	Upper
240	100		
120	7.6	3.8	5.6#
236	30.6	22.0	33.0

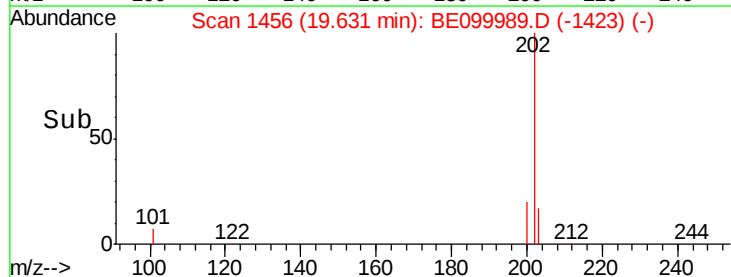
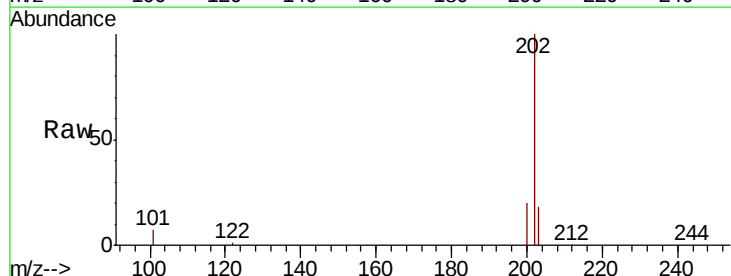
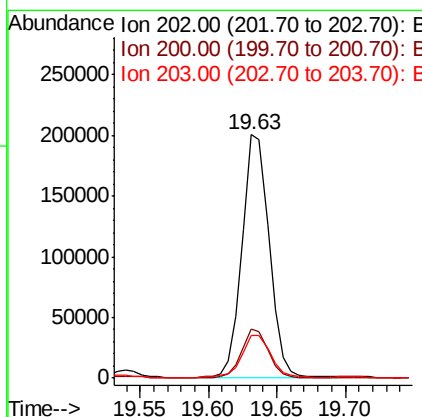
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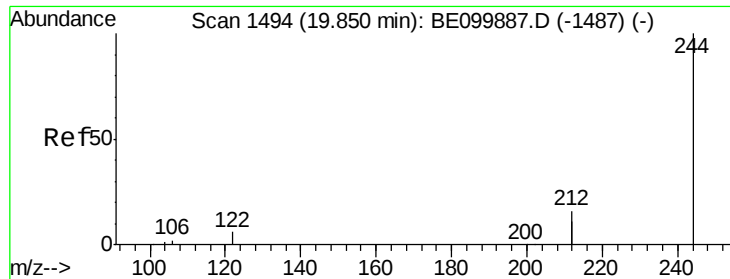
mohammad
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#28
Pyrene
Concen: 9.061 ng
RT: 19.63 min Scan# 1456
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.5	23.3
203	18.7	14.0	21.0





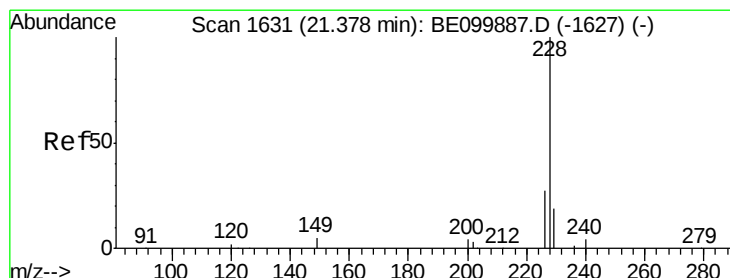
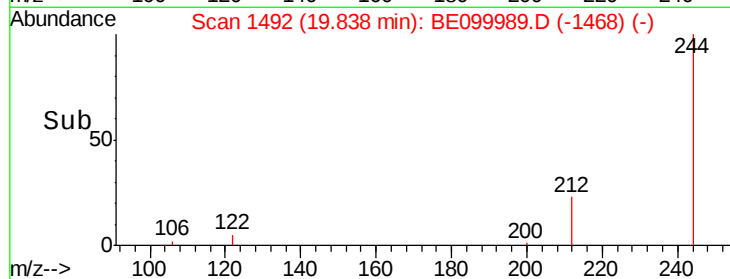
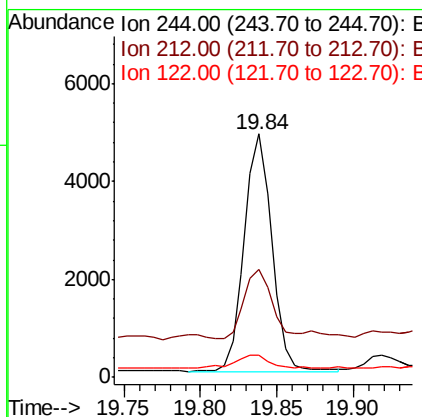
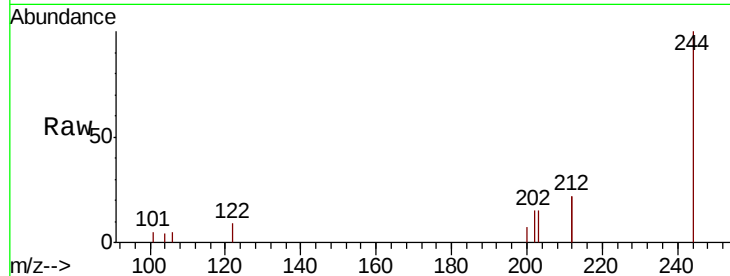
#29
 Terphenyl-d14
 Concen: 0.292 ng
 RT: 19.84 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: BE099989.D
 Acq: 13 Jun 2019 14:44

Instrument :
 BNA_E
 ClientSampleId :
 DUP-6-2019

Tot Ion	Ratio	Lower	Upper
244	100		
212	44.1	25.7	38.5
122	8.9	5.5	8.3

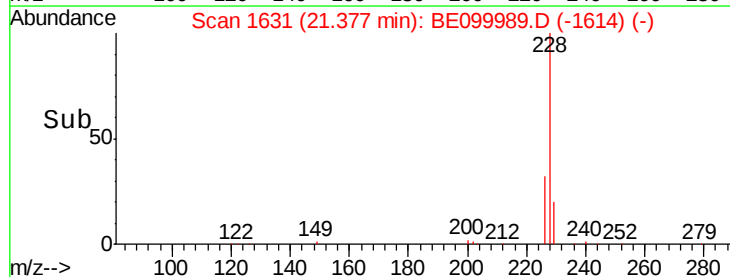
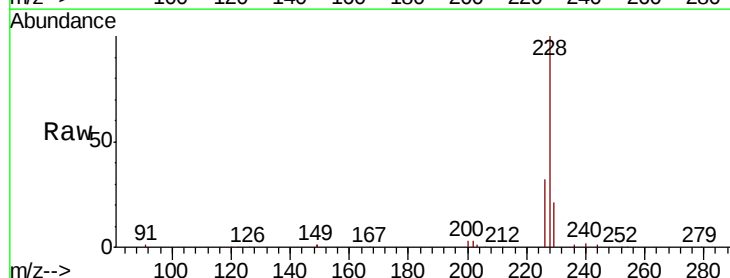
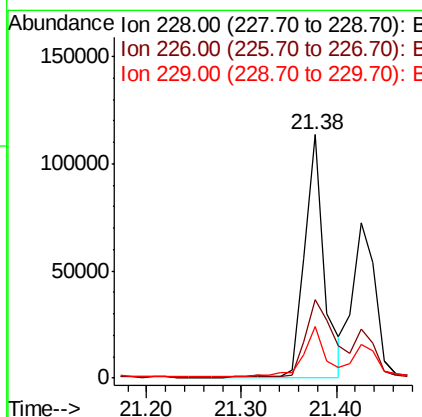
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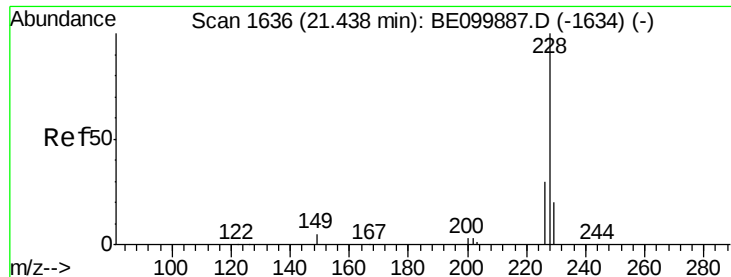
mohammad
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#30
 Benzo(a)anthracene
 Concen: 4.676 ng
 RT: 21.38 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: BE099989.D
 Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.4	22.5	33.7
229	21.0	15.9	23.9





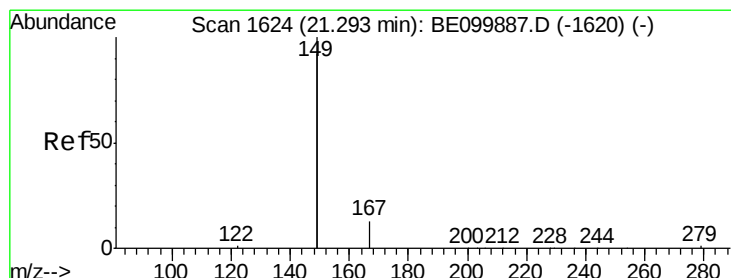
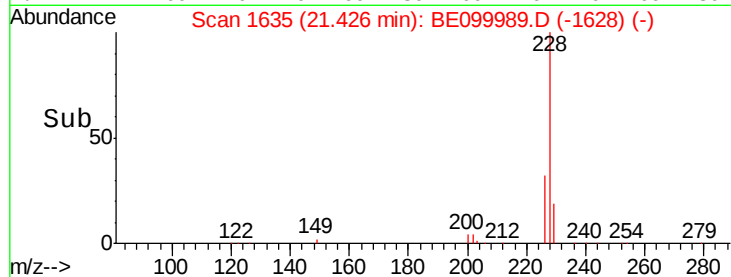
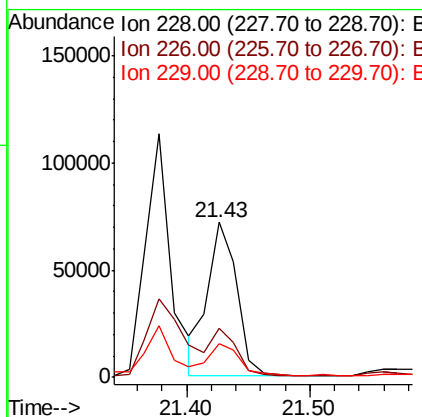
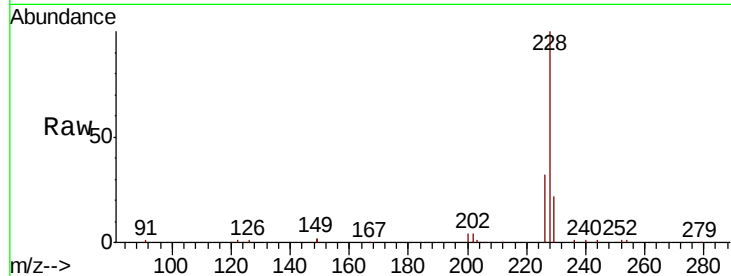
#31
Chrysene
Concen: 3.331 ng
RT: 21.43 min Scan# 1635
Delta R.T. -0.01 min
Lab File: BE099889.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion:	228	Resp:	118584
Ion Ratio	Lower	Upper	
228	100		
226	32.0	24.1	36.1
229	22.1	16.1	24.1

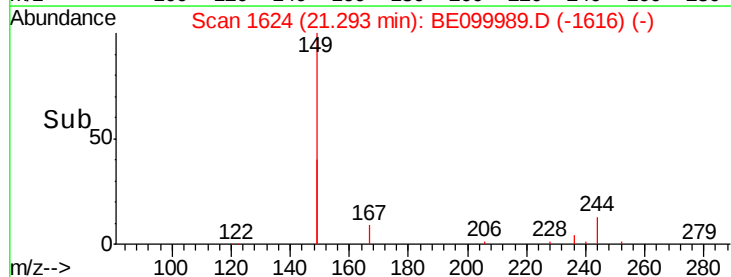
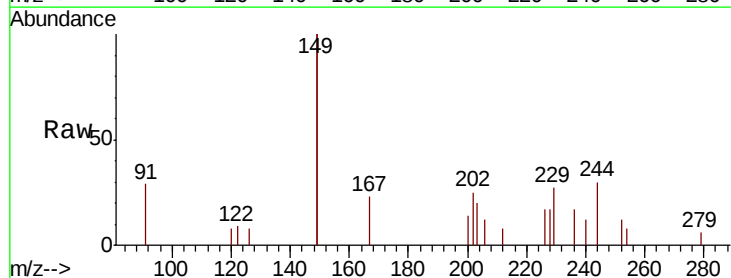
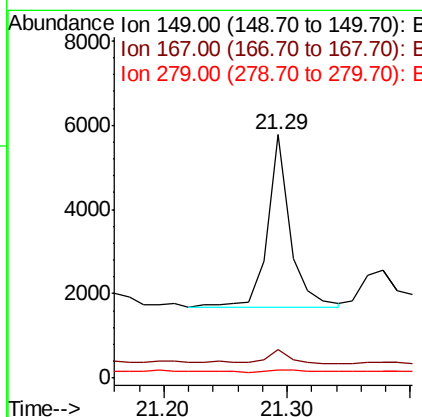
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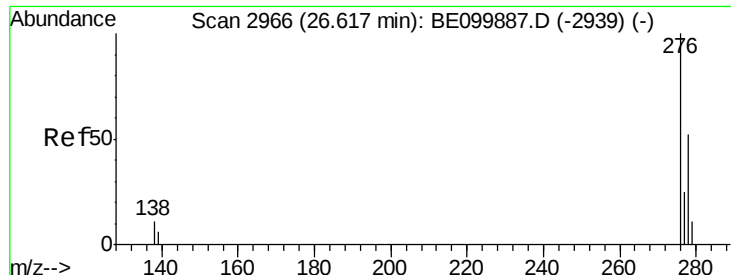
mohammad
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#32
Bis(2-ethylhexyl)phthalate
Concen: 0.108 ng
RT: 21.29 min Scan# 1624
Delta R.T. -0.00 min
Lab File: BE099889.D
Acq: 13 Jun 2019 14:44

Tgt Ion:	149	Resp:	5340
Ion Ratio	Lower	Upper	
149	100		
167	8.0	5.9	8.9
279	1.9	1.2	1.8#





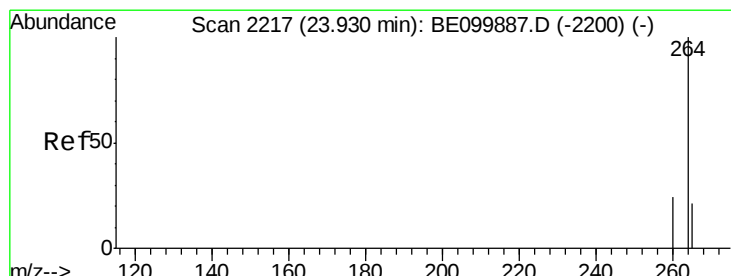
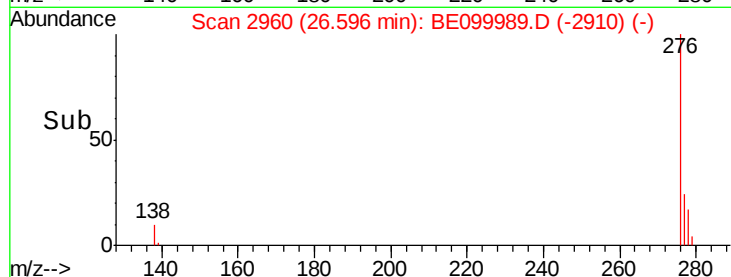
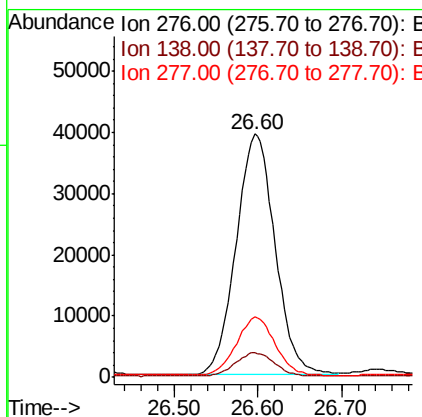
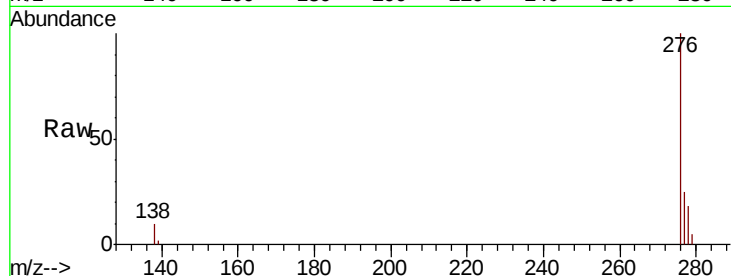
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 3.005 ng
 RT: 26.60 min Scan# 2960
 Delta R.T. -0.02 min
 Lab File: BE099989.D
 Acq: 13 Jun 2019 14:44

Instrument :
 BNA_E
 ClientSampled :
 DUP-6-2019

Tot Ion	Ratio	Resp	Lower	Upper
276	100	126911		
138	10.0		10.1	15.1#
277	24.4		19.1	28.7

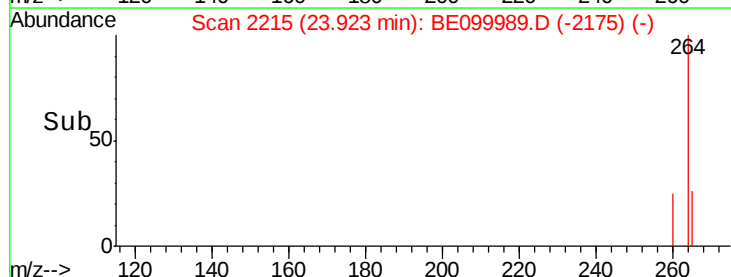
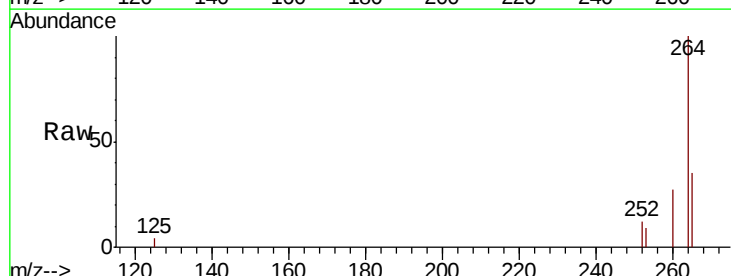
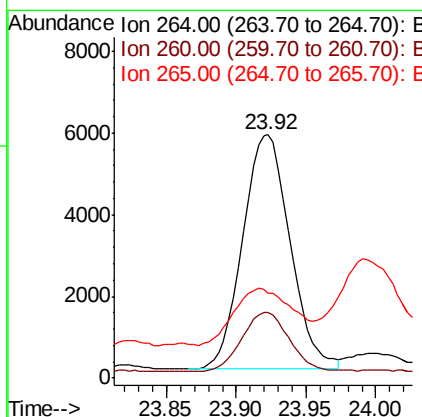
Manual Integrations
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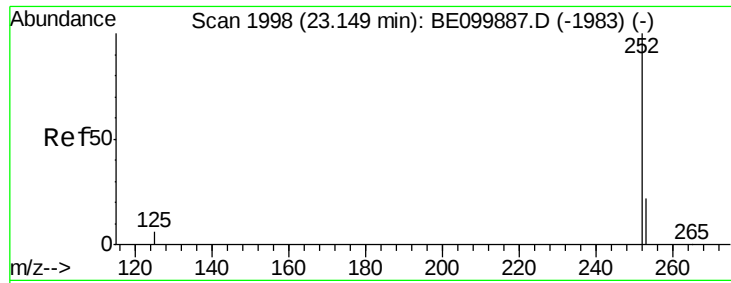
mohammad
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#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.92 min Scan# 2215
 Delta R.T. -0.01 min
 Lab File: BE099989.D
 Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	13587		
260	27.1		20.2	30.2
265	35.1		22.0	33.0#





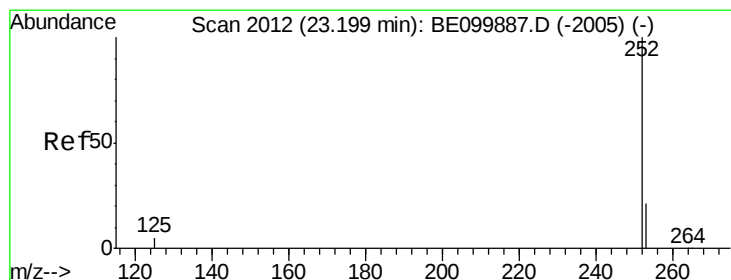
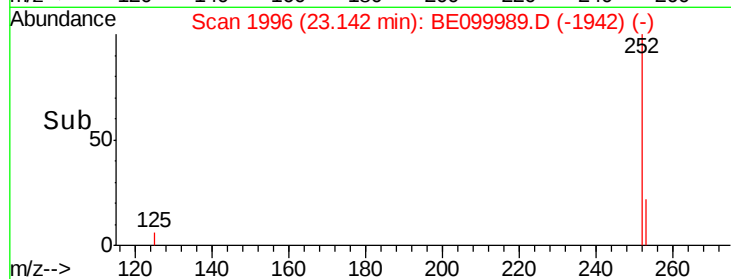
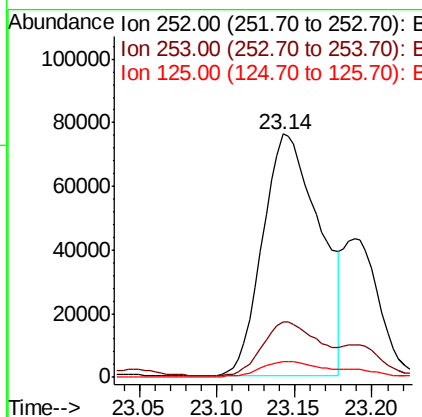
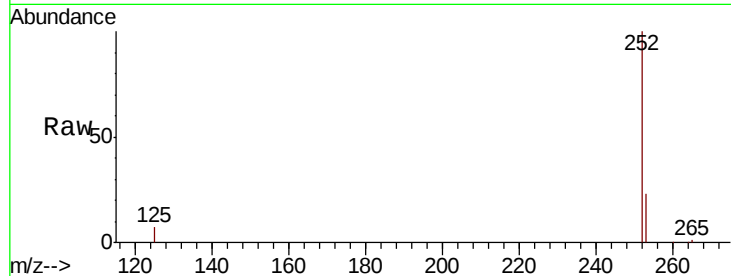
#35
Benzo(b)fluoranthene
Concen: 5.104 ng
RT: 23.14 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.7	28.1
125	6.6	5.7	8.5

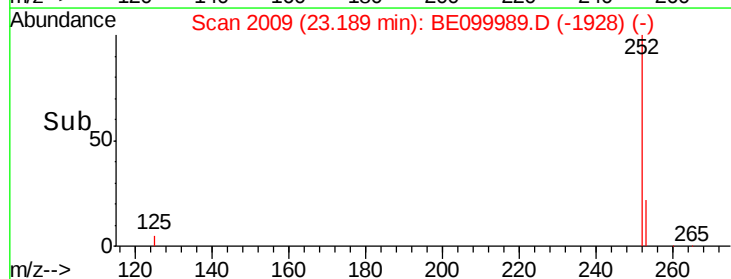
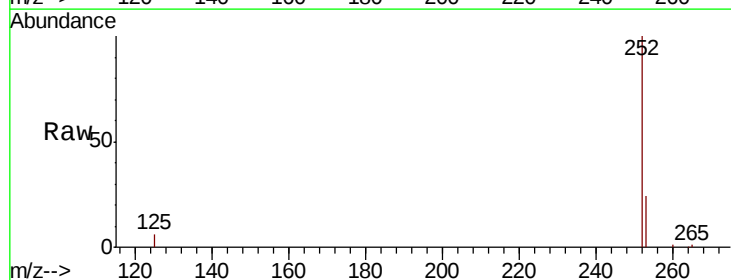
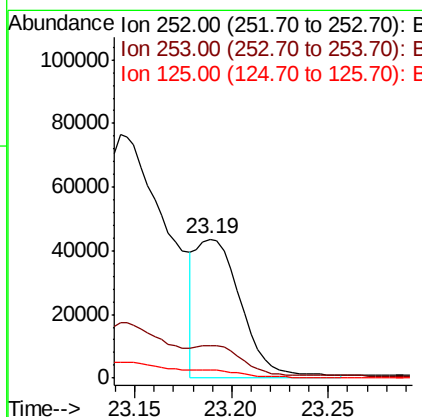
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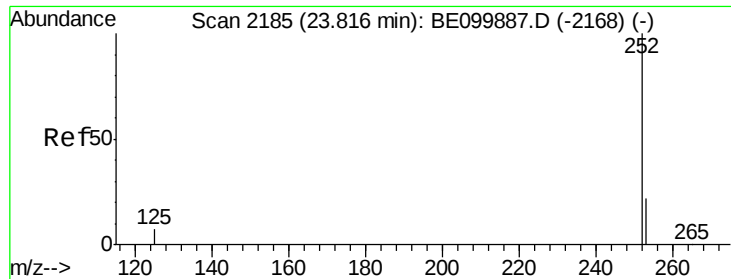
mohammad
6/14/2019 8:45:44 AM



#36
Benzo(k)fluoranthene
Concen: 1.818 ng m
RT: 23.19 min Scan# 2009
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.6	28.0
125	5.7	5.4	8.0





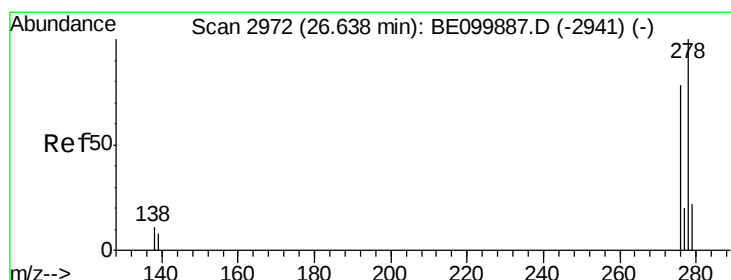
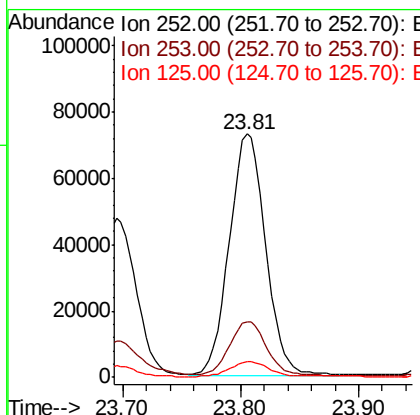
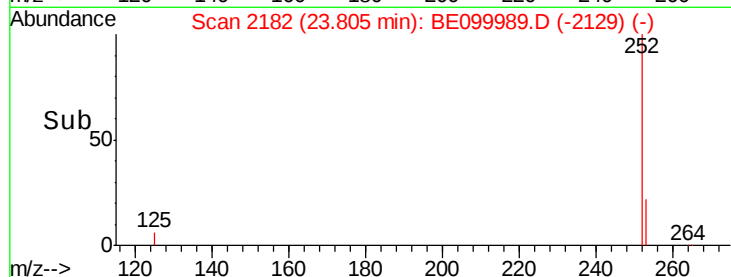
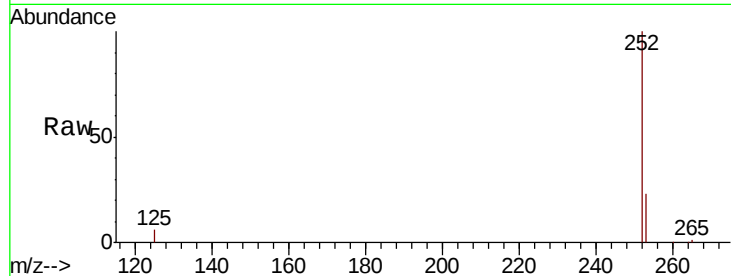
#37
Benzo(a)pyrene
Concen: 4.152 ng/ml
RT: 23.81 min Scan# 2182
Delta R.T. -0.01 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Instrument :
BNA_E
ClientSampleId :
DUP-6-2019

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	19.6	29.4
125	6.3	6.6	10.0

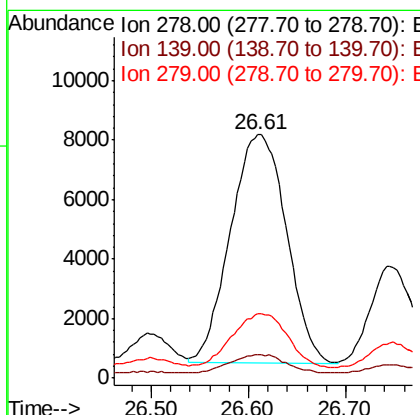
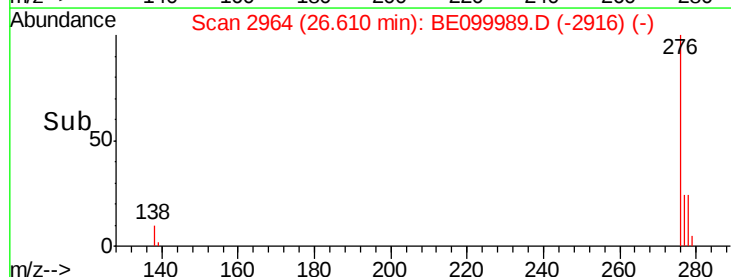
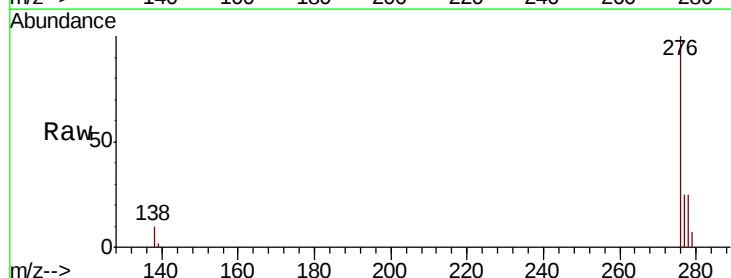
Manual Integrations
APPROVED

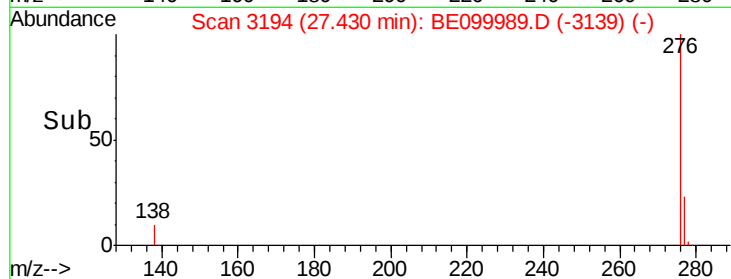
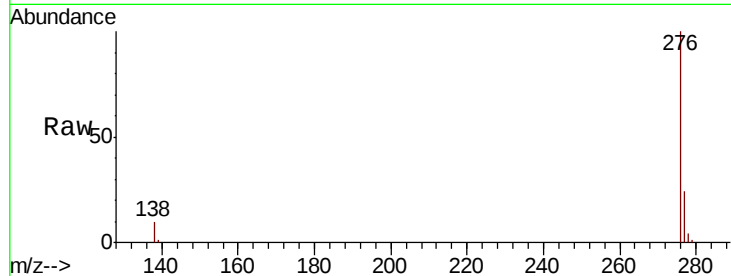
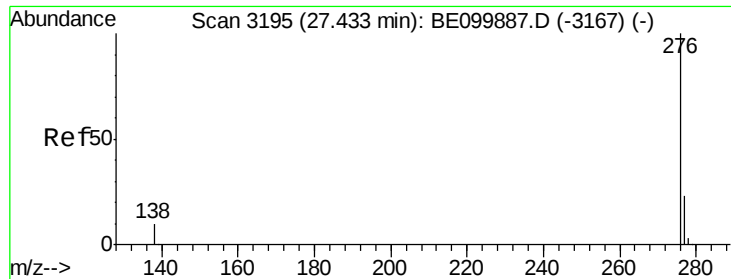
mohammad
6/14/2019 8:45:44 AM



#38
Dibenzo(a,h)anthracene
Concen: 0.816 ng
RT: 26.61 min Scan# 2964
Delta R.T. -0.03 min
Lab File: BE099989.D
Acq: 13 Jun 2019 14:44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.7	7.8	11.8
279	26.4	20.0	30.0





#39

Benzo(a,h,i)perylene

Concen: 3.806 ng

RT: 27.43 min Scan# 3194

Delta R.T. -0.00 min

Lab File: BE099989.D

Acq: 13 Jun 2019 14:44

Tot Ion:	276	Resp:	148530
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.5	29.3
138	10.2	9.5	14.3

Instrument :

BNA_E

ClientSampleId :

DUP-6-2019

Manual Integrations
APPROVED

mohammad
6/14/2019 8:45:44 AM

