

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE060619\
 Data File : BE099842.D
 Acq On : 7 Jun 2019 3:27
 Operator : JU/SJ
 Sample : K3221-16
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 BPS1-TT-MW313S-20190605

Manual Integrations
 APPROVED

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 6/7/2019 2:11:02 PM

Quant Time: Jun 07 05:44:13 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE060519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 05 14:35:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	1016	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	3998	0.40	ng	0.00
13) Acenaphthene-d10	14.49	164	3165	0.40	ng	0.01
19) Phenanthrene-d10	17.23	188	8677	0.40	ng	0.00
27) Chrysene-d12	21.43	240	11461	0.40	ng	0.01
34) Perylene-d12	23.97	264	12378	0.40	ng	0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.37	112	483	0.20	ng	0.01
5) Phenol-d6	6.97	99	404	0.13	ng	0.01
8) Nitrobenzene-d5	8.98	82	1330	0.38	ng	0.01
11) 2-Methylnaphthalene-d10	12.22	152	2805	0.41	ng	0.01
14) 2,4,6-Tribromophenol	15.98	330	982	0.54	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	4368	0.37	ng	0.00
25) Fluoranthene-d10	19.27	212	43939	0.34	ng	0.01
29) Terphenyl-d14	19.86	244	10375	0.55	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.29	88	93	0.063	ng	# 1
9) Naphthalene	10.67	128	7937	0.186	ng	# 98
12) 2-Methylnaphthalene	12.30	142	687	0.101	ng	# 95
16) Acenaphthylene	14.15	152	10085	0.660	ng	97
17) Acenaphthene	14.54	154	1021m	0.122	ng	
18) Fluorene	15.53	166	2761m	0.224	ng	
23) Phenanthrene	17.27	178	13560	0.655	ng	# 96
24) Anthracene	17.36	178	3962	0.212	ng	# 78
26) Fluoranthene	19.30	202	19702	0.543	ng	95
28) Pvrene	19.66	202	17734	0.641	ng	# 83
30) Benzo(a)anthracene	21.40	228	12003	0.379	ng	# 13
31) Chrysene	21.46	228	8118	0.232	ng	# 38
33) Indeno(1,2,3-cd)pyrene	26.67	276	18305	0.437	ng	# 93
35) Benzo(b)fluoranthene	23.19	252	10828	0.316	ng	# 12
36) Benzo(k)fluoranthene	23.24	252	4397m	0.121	ng	
37) Benzo(a)pyrene	23.86	252	8806	0.265	ng	# 19
39) Benzo(a,h,i)perylene	27.52	276	44412	1.251	ng	# 77

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

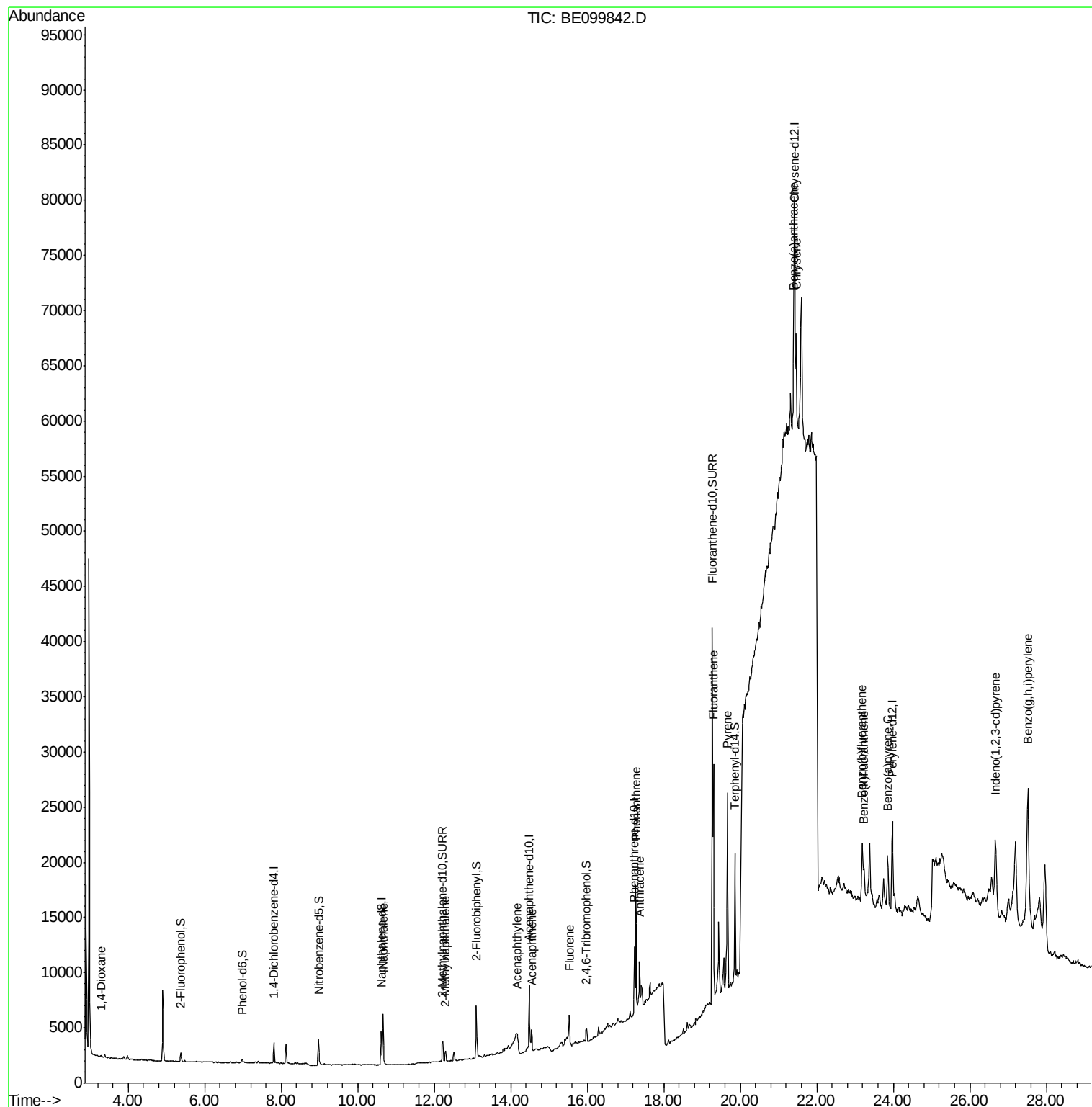
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE060619\
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#1

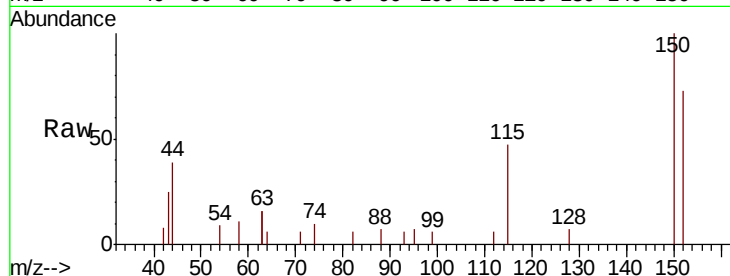
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.80 min Scan# 429
Delta R.T. -0.00 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Instrument :
BNA_E
ClientSampleId :
BPS1-TT-MW313S-20190605

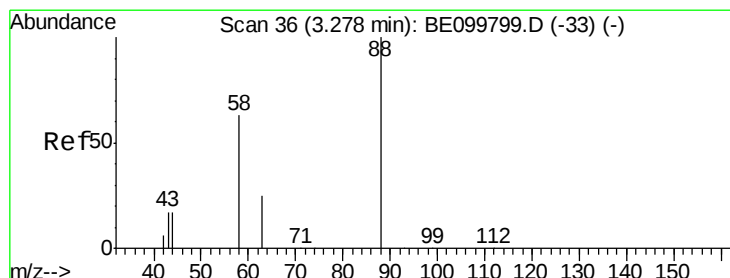
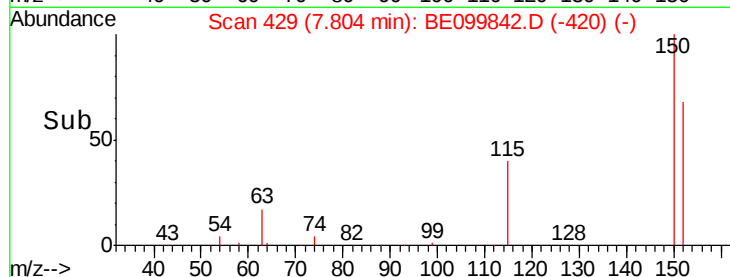
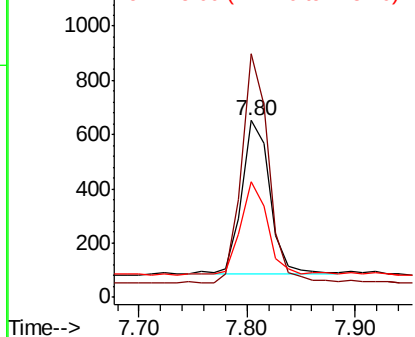
Tot Ion	Ratio	Lower	Upper
152	100		
150	137.7	112.8	169.2
115	65.2	47.6	71.4

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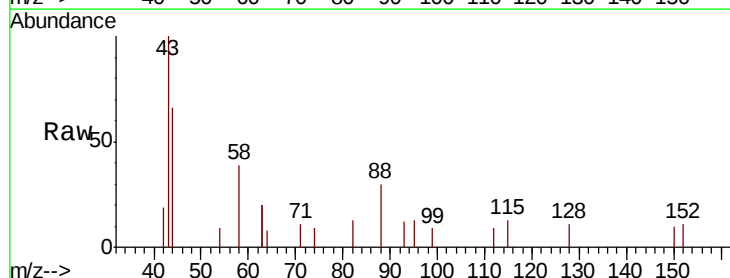
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



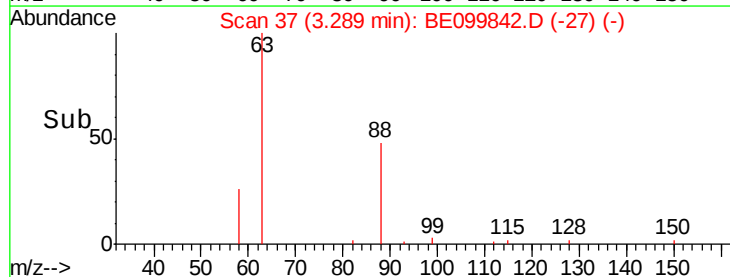
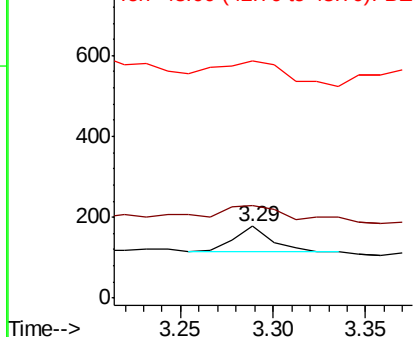
#2

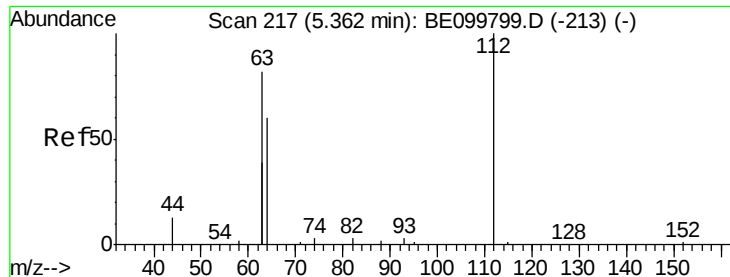
1,4-Dioxane
Concen: 0.063 ng
RT: 3.29 min Scan# 37
Delta R.T. 0.01 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Tgt Ion	Ratio	Lower	Upper
88	100		
58	53.8	47.3	70.9
43	187.1	18.2	27.4#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.195 ng

RT: 5.37 min Scan# 218

Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Instrument :

BNA_E

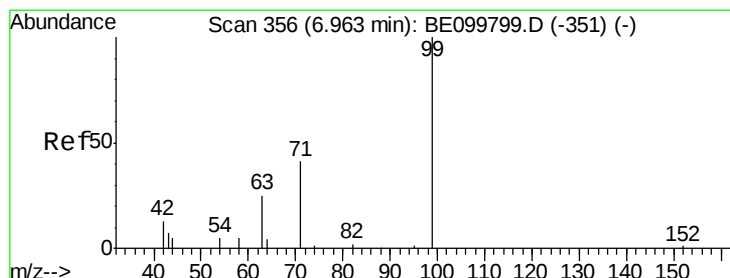
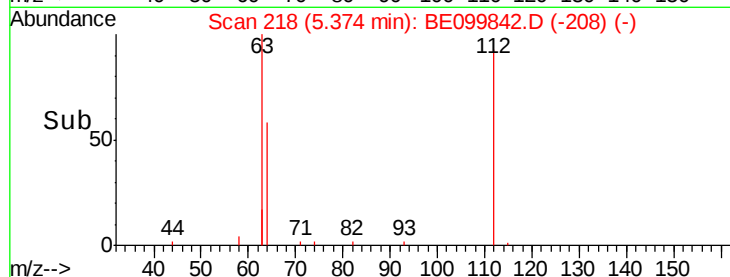
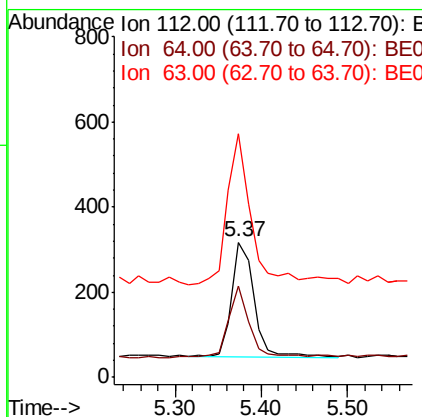
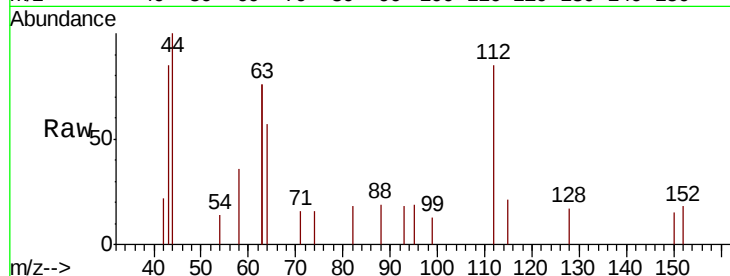
ClientSampleId :

BPS1-TT-MW313S-20190605

Tot Ion:	112	Resp:	483
Ion Ratio	Lower	Upper	
112	100		
64	58.0	47.2	70.8
63	139.1	90.7	136.1#

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#5

Phenol-d6

Concen: 0.127 ng

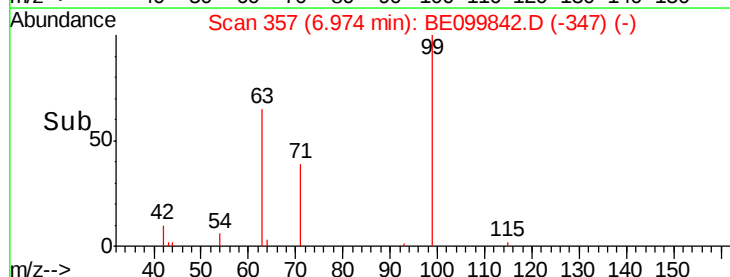
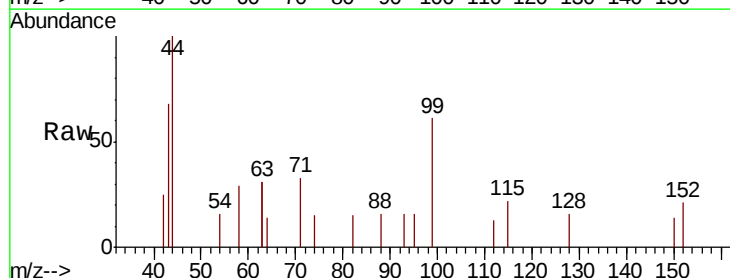
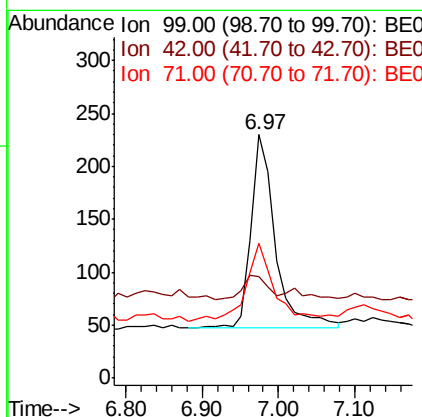
RT: 6.97 min Scan# 357

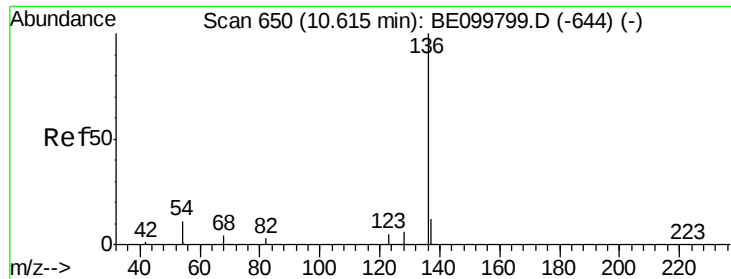
Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Tgt Ion:	99	Resp:	404
Ion Ratio	Lower	Upper	
99	100		
42	12.4	11.0	16.4
71	45.8	26.1	39.1#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.61 min Scan# 650

Delta R.T. -0.00 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Instrument :

BNA_E

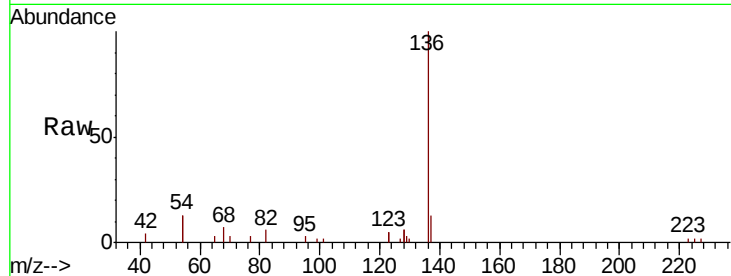
ClientSampleId :

BPS1-TT-MW313S-20190605

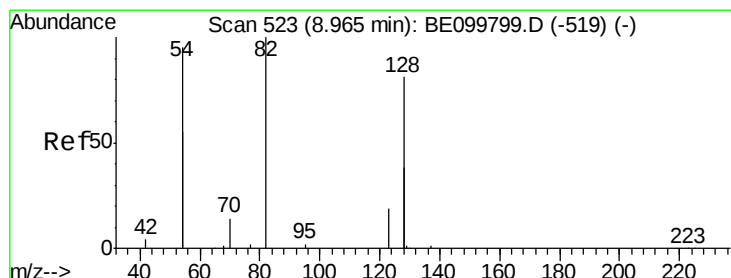
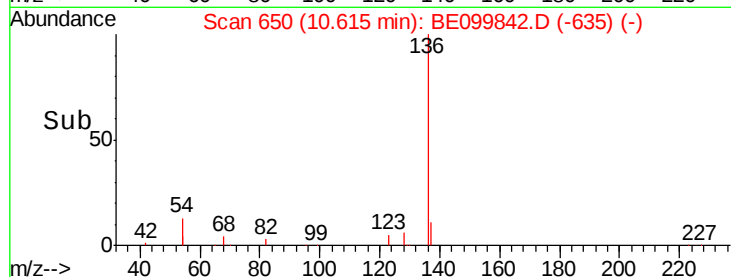
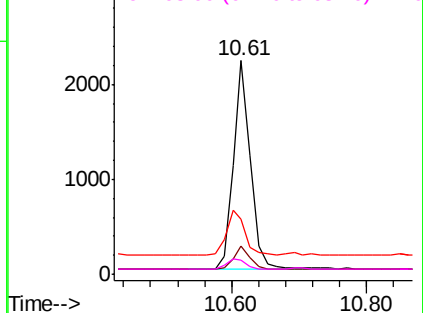
Tot Ion	Ratio	Lower	Upper
136	100		
137	13.2	11.1	16.7
54	25.9	17.9	26.9
68	6.8	5.4	8.0

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Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.379 ng

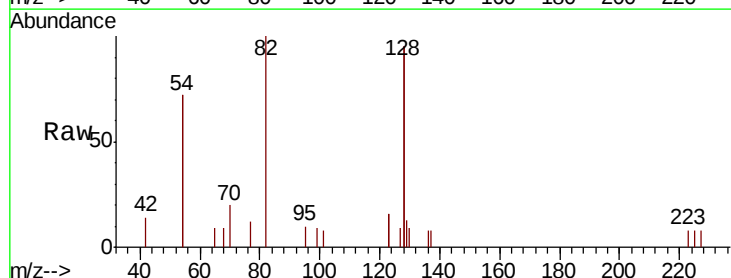
RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

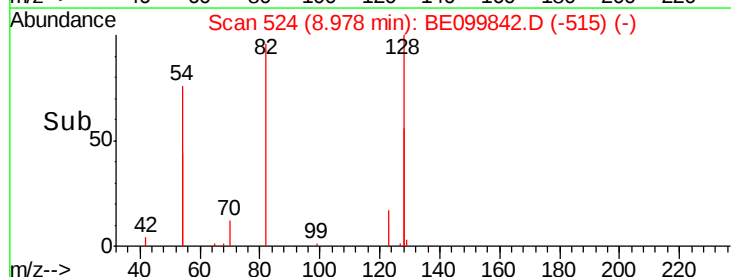
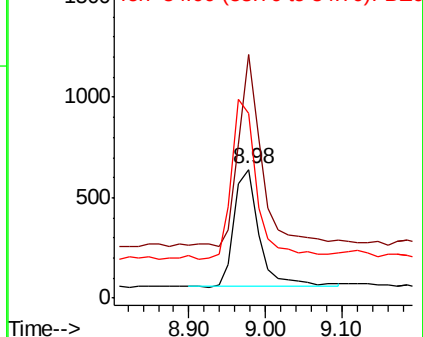
Lab File: BE099842.D

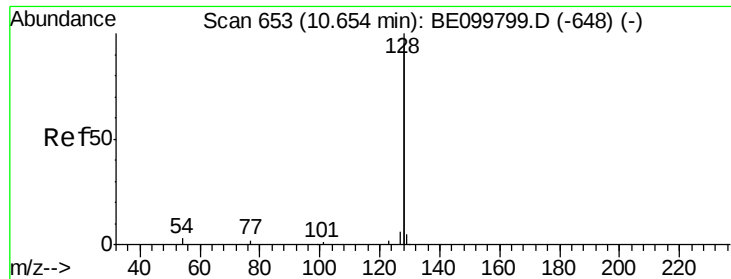
Acq: 7 Jun 2019 3:27

Tgt Ion	Ratio	Lower	Upper
82	100		
128	189.4	116.6	175.0#
54	144.1	136.2	204.4



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.186 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Instrument :

BNA_E

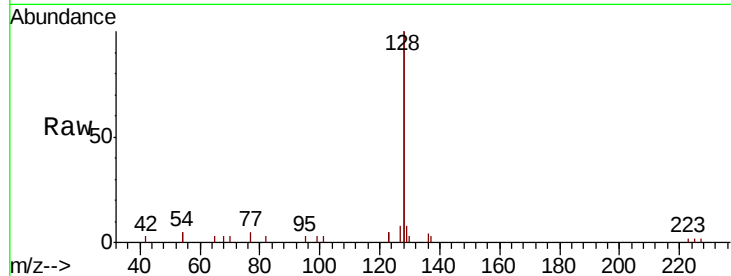
ClientSampleId :

BPS1-TT-MW313S-20190605

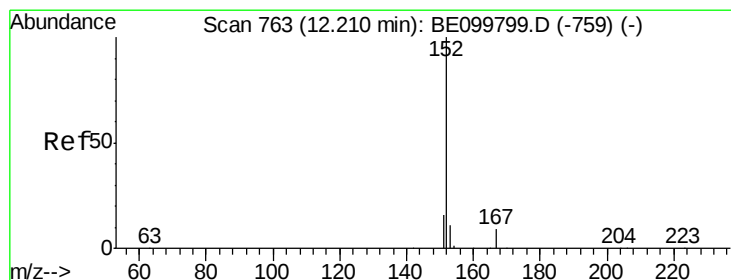
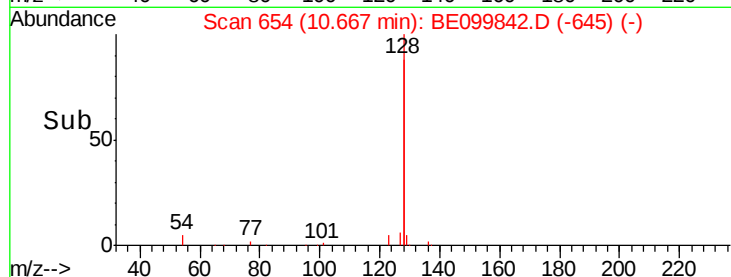
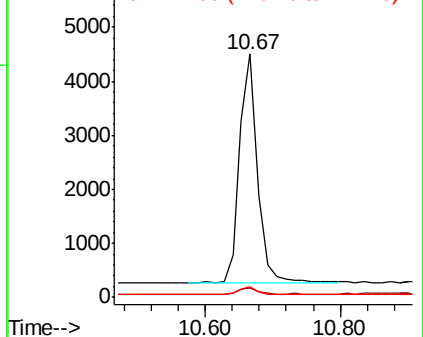
Tot Ion:	128	Resp:	7937
Ion Ratio	Lower	Upper	
128	100		
129	4.1	2.6	4.0#
127	4.2	3.0	4.6

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



#11

2-Methylnaphthalene-d10

Concen: 0.409 ng

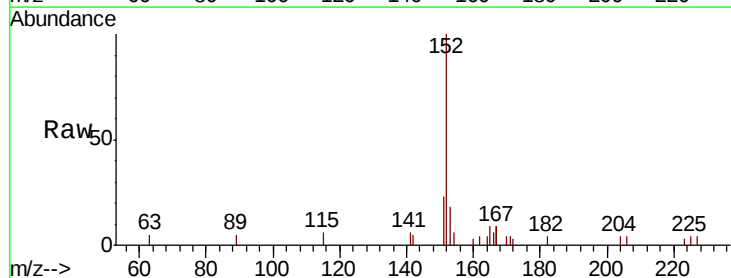
RT: 12.22 min Scan# 764

Delta R.T. 0.01 min

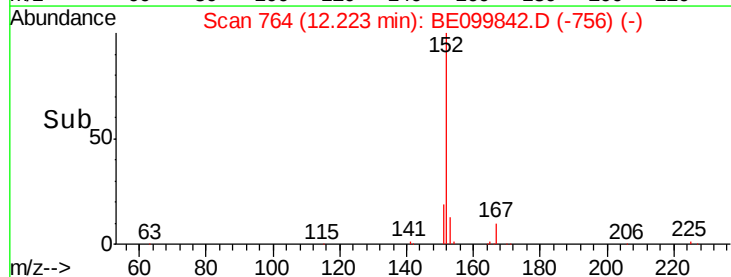
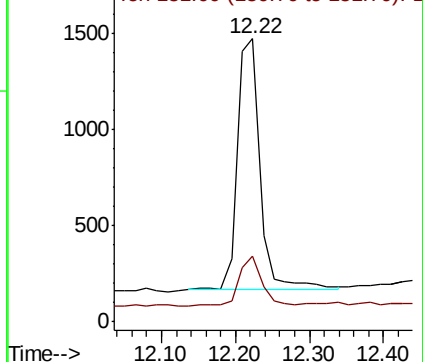
Lab File: BE099842.D

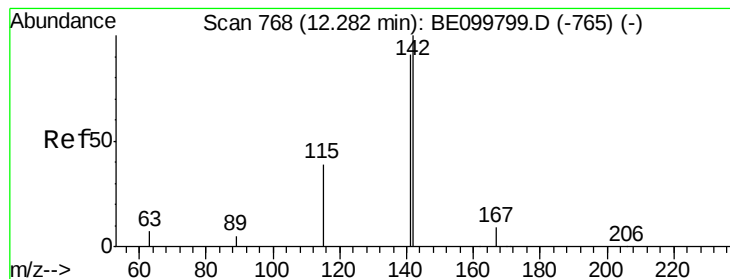
Acq: 7 Jun 2019 3:27

Tgt Ion:	152	Resp:	2805
Ion Ratio	Lower	Upper	
152	100		
151	19.1	15.8	23.8



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.101 ng

RT: 12.30 min Scan# 769

Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Instrument :

BNA_E

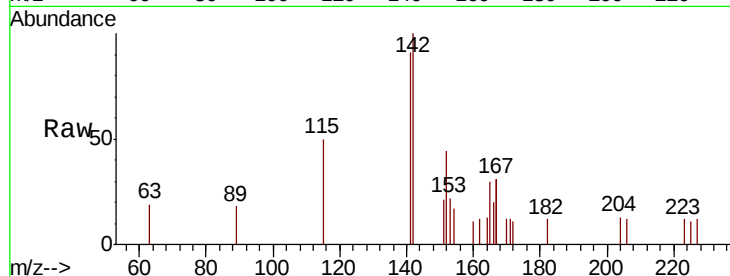
ClientSampleId :

BPS1-TT-MW313S-20190605

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.3	109.9
115	50.3	33.4	50.2

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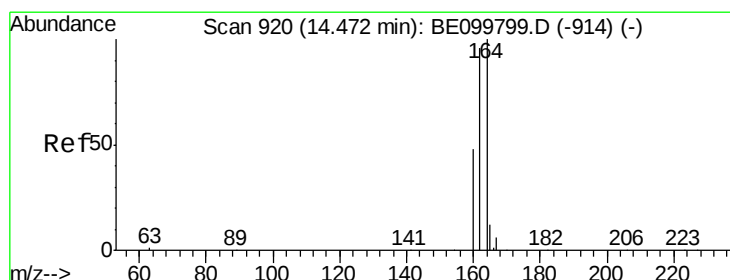
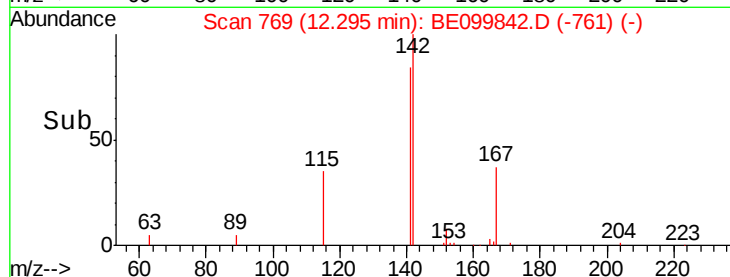
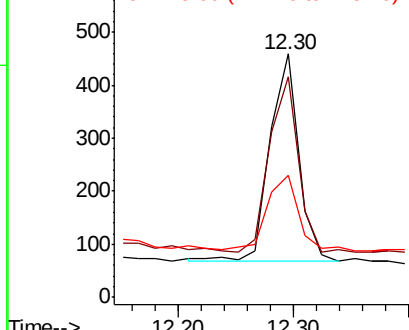


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.49 min Scan# 921

Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

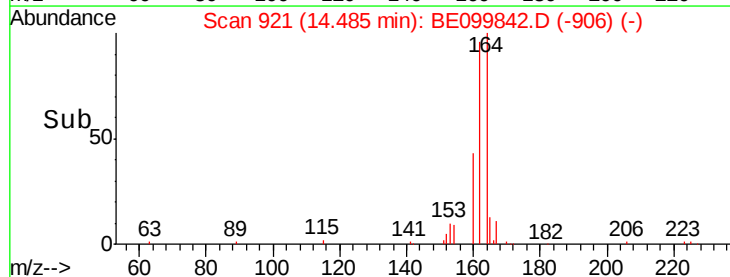
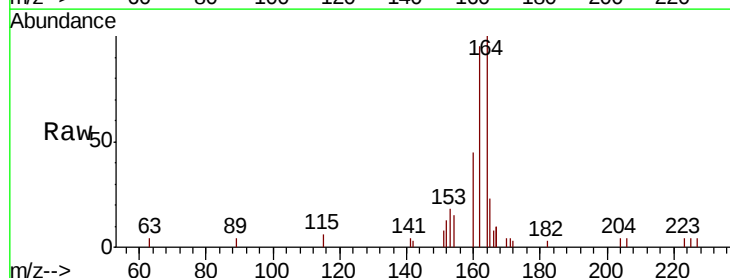
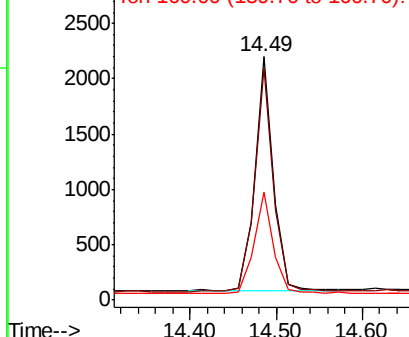
Tgt Ion	Ratio	Lower	Upper
164	100		
162	95.4	77.2	115.8
160	44.5	39.4	59.2

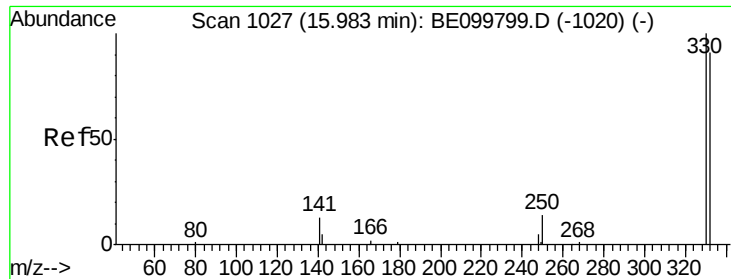
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#14

2,4,6-Tribromophenol

Concen: 0.537 ng

RT: 15.98 min Scan# 1027

Delta R.T. 0.00 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Instrument :

BNA_E

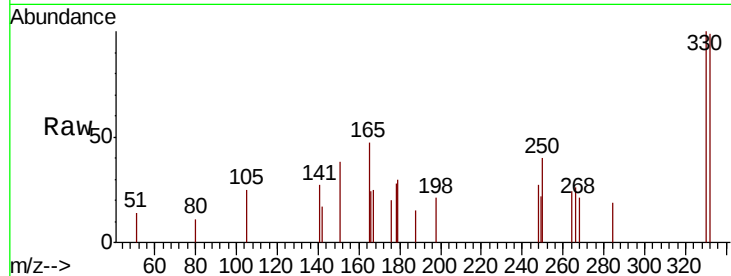
ClientSampleId :

BPS1-TT-MW313S-20190605

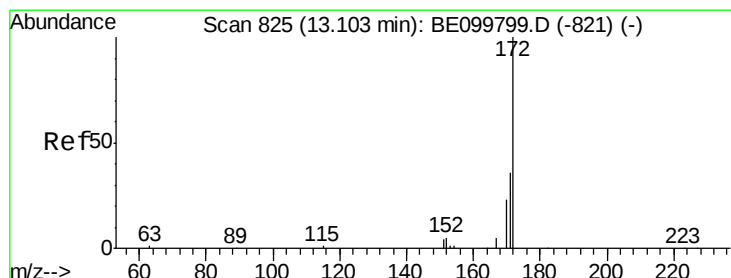
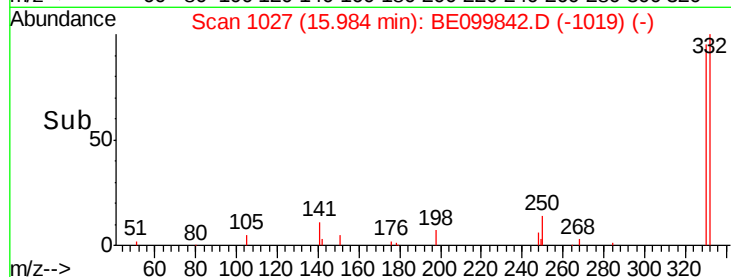
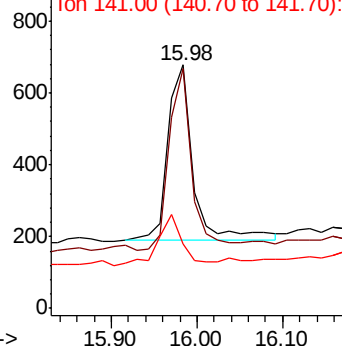
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	74.9	112.3
141	24.3	16.0	24.0

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Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#15

2-Fluorobiphenyl

Concen: 0.371 ng

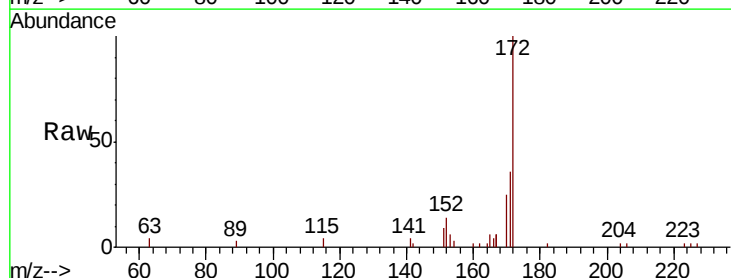
RT: 13.10 min Scan# 825

Delta R.T. -0.00 min

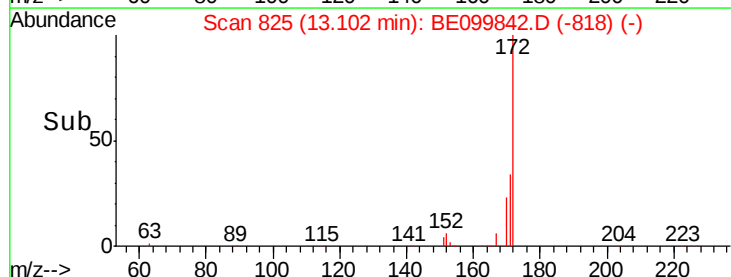
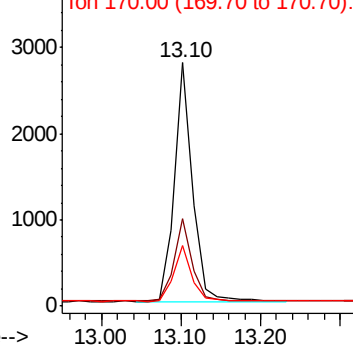
Lab File: BE099842.D

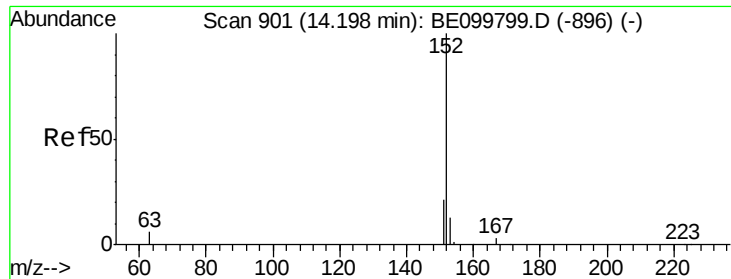
Acq: 7 Jun 2019 3:27

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	30.2	45.4
170	24.7	20.1	30.1



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





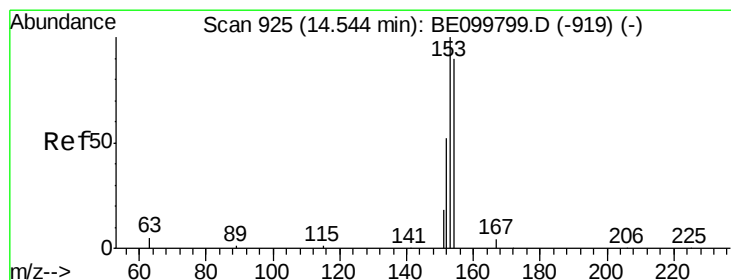
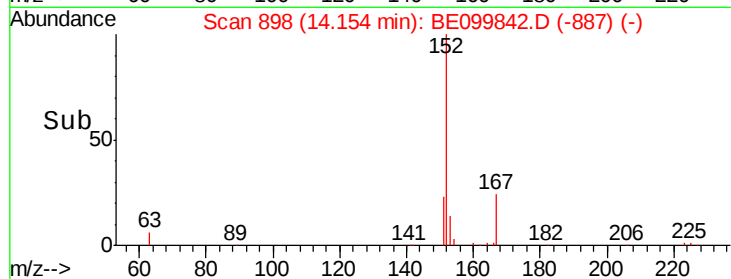
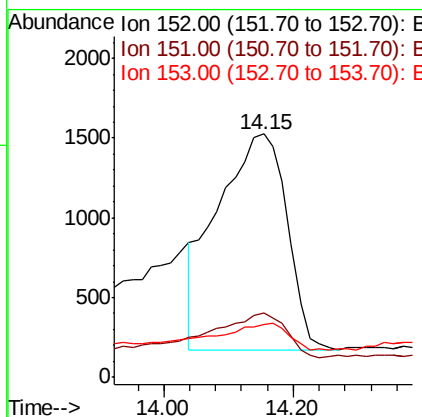
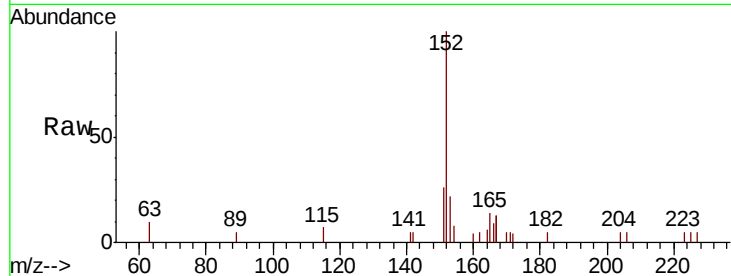
#16
Acenaphthylene
Concen: 0.660 ng
RT: 14.15 min Scan# 898
Delta R.T. -0.04 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Instrument :
BNA_E
ClientSampleId :
BPS1-TT-MW313S-20190605

Tot Ion	152	Resp	10085
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.9	23.9
153	11.2	10.8	16.2

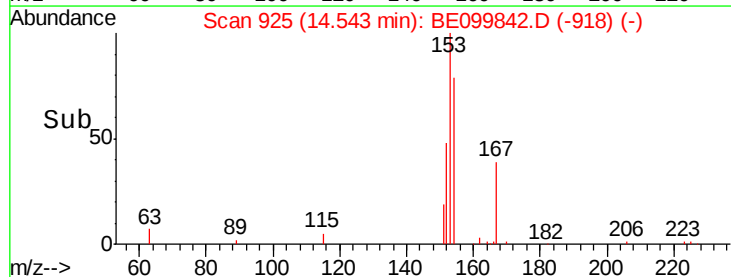
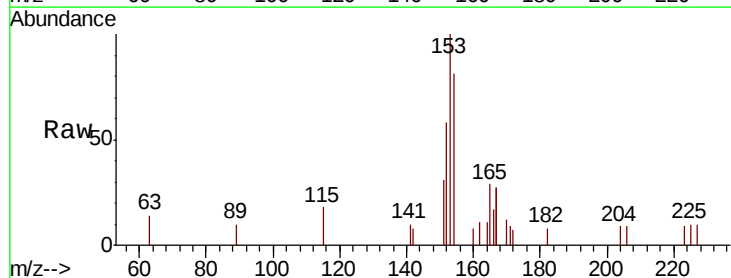
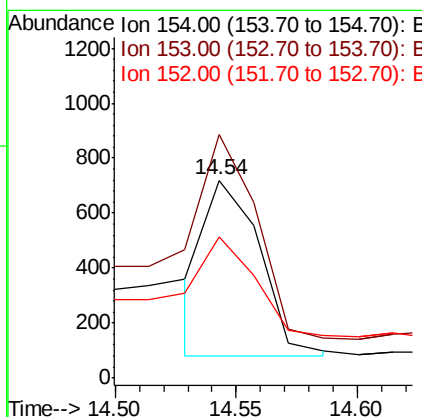
Manual Integrations
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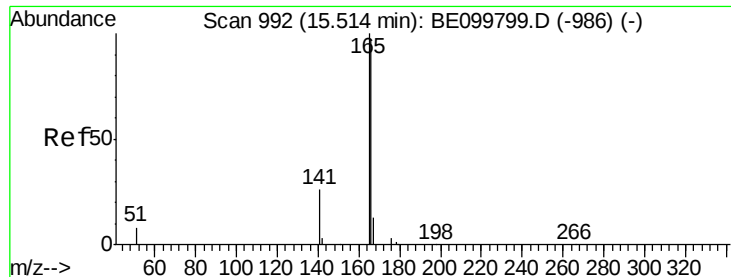
mohammad
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#17
Acenaphthene
Concen: 0.122 ng m
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Tgt Ion	154	Resp	1021
Ion Ratio	Lower	Upper	
154	100		
153	159.5	93.8	140.6#
152	64.7	48.3	72.5





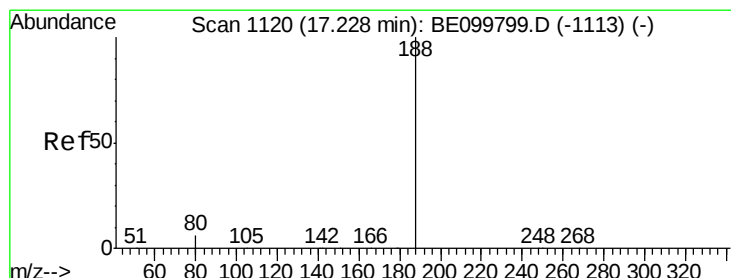
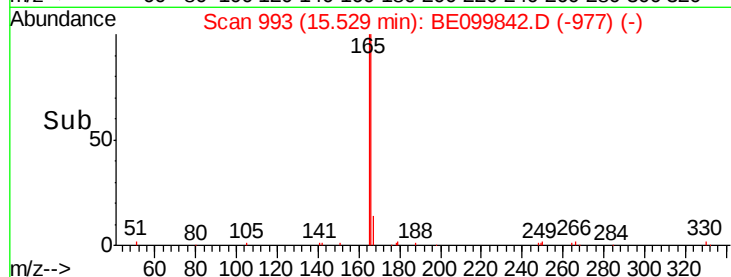
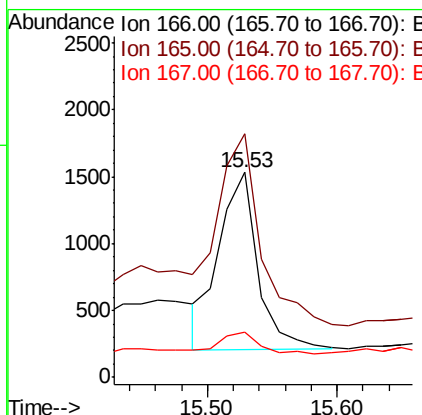
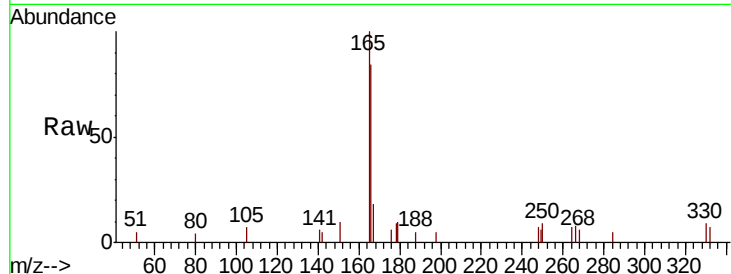
#18
Fluorene
 Concen: 0.224 ng/ml
 RT: 15.53 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: BE099842.D
 Acq: 7 Jun 2019 3:27

Instrument :
 BNA_E
 ClientSampleId :
 BPS1-TT-MW313S-20190605

Tot Ion:	166	Resp:	2761
Ion Ratio	Lower	Upper	
166	100		
165	119.5	80.4	120.6
167	12.6	10.7	16.1

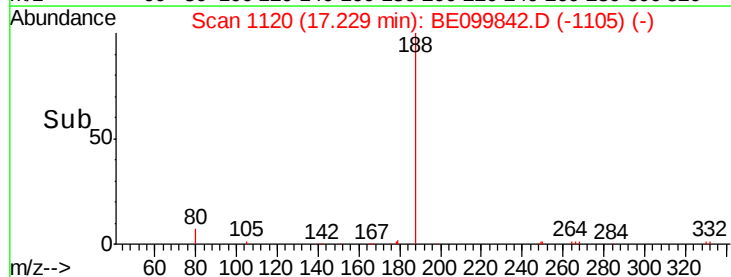
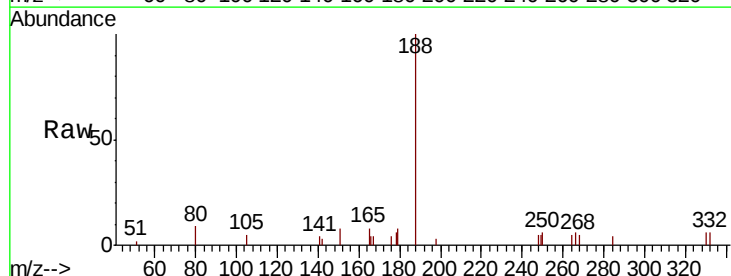
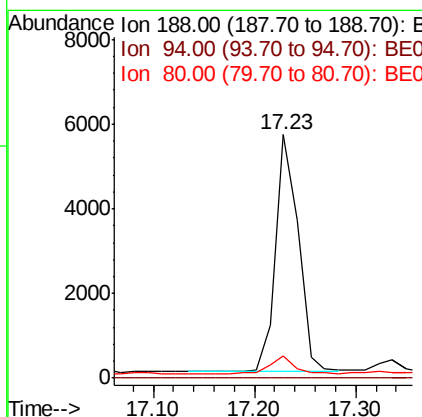
Manual Integrations
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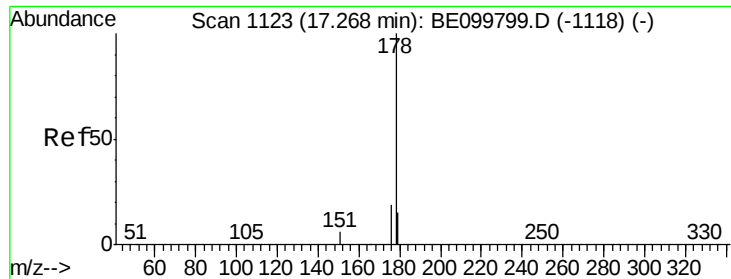
mohammad
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#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.23 min Scan# 1120
 Delta R.T. 0.00 min
 Lab File: BE099842.D
 Acq: 7 Jun 2019 3:27

Tgt Ion:	188	Resp:	8677
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.9	5.2	7.8





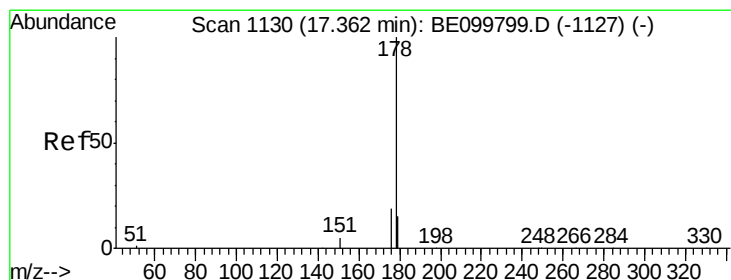
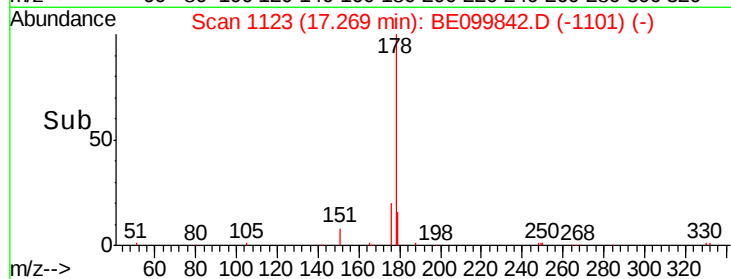
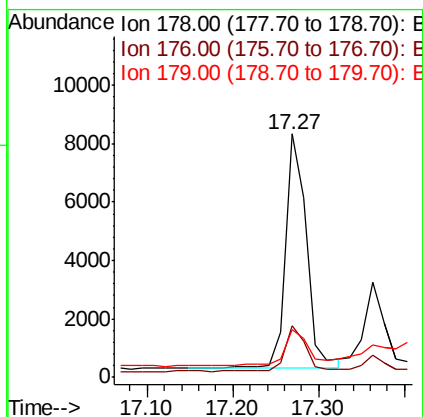
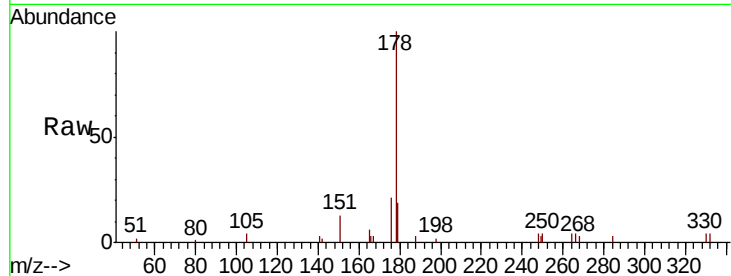
#23
Phenanthrene
Concen: 0.655 ng
RT: 17.27 min Scan# 1123
Delta R.T. 0.00 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Instrument :
BNA_E
ClientSampleId :
BPS1-TT-MW313S-20190605

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	18.9	12.5	18.7

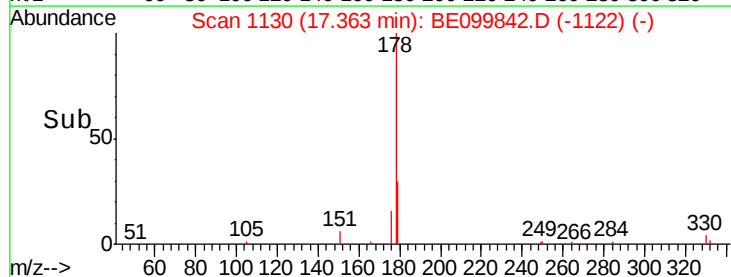
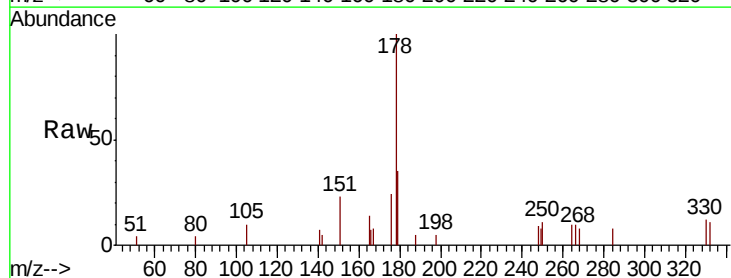
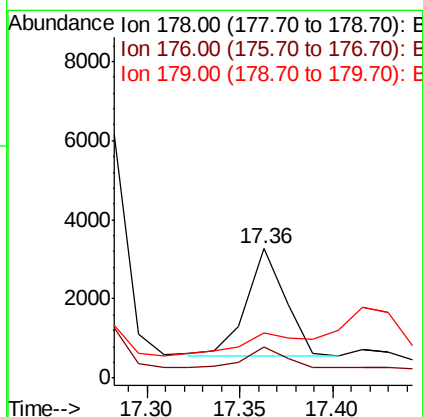
Manual Integrations
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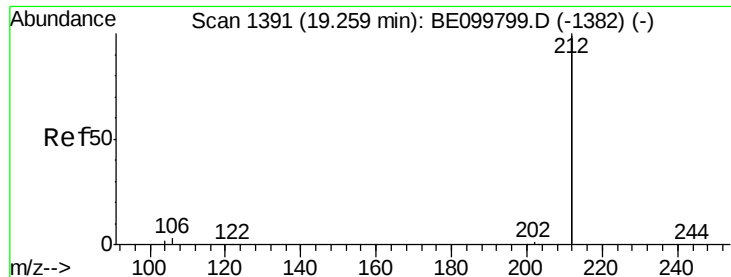
mohammad
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#24
Anthracene
Concen: 0.212 ng
RT: 17.36 min Scan# 1130
Delta R.T. 0.00 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Tgt Ion	Ratio	Lower	Upper
178	100		
176	23.9	15.1	22.7
179	0.0	12.1	18.1





#25

Fluoranthene-d10

Concen: 0.341 ng

RT: 19.27 min Scan# 1393

Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Instrument :

BNA_E

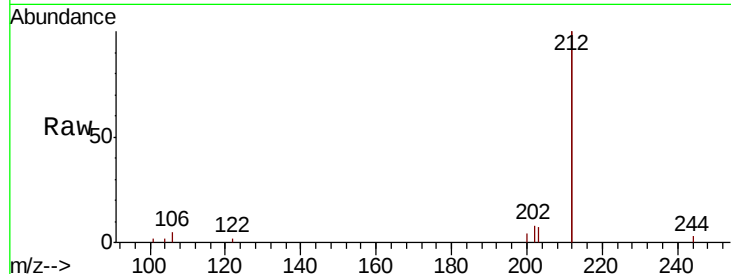
ClientSampleId :

BPS1-TT-MW313S-20190605

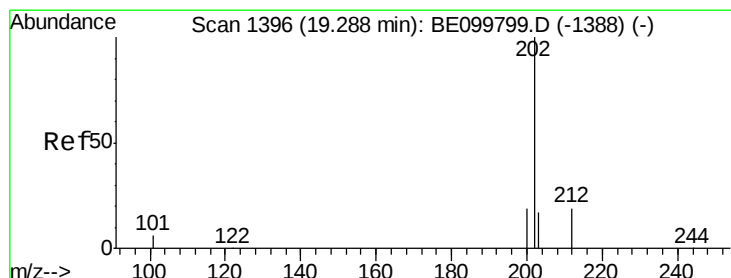
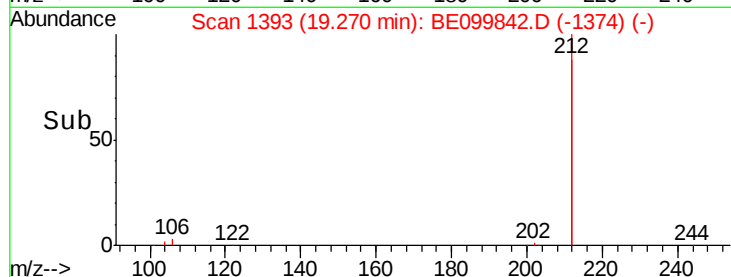
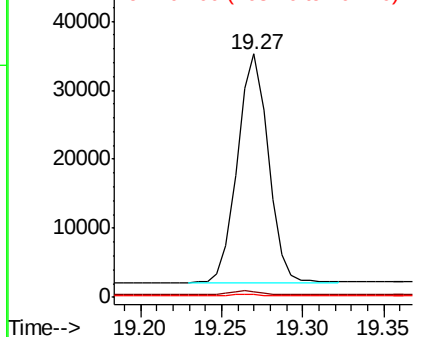
Tot Ion	Ratio	Lower	Upper
212	100		
106	1.7	1.4	2.0
104	1.0	0.8	1.2

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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: 0.543 ng

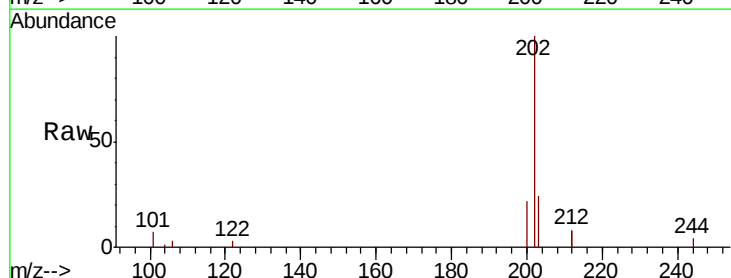
RT: 19.30 min Scan# 1398

Delta R.T. 0.01 min

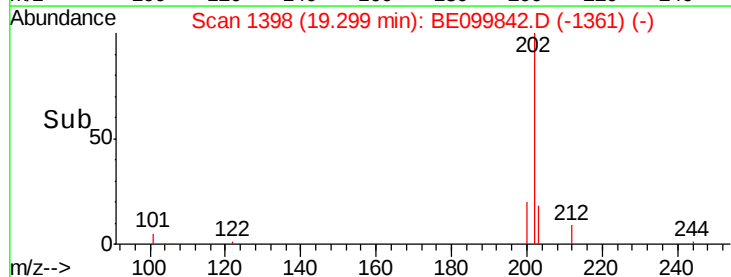
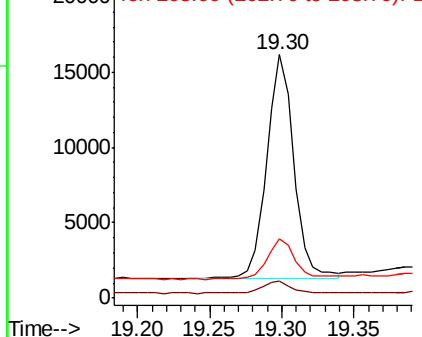
Lab File: BE099842.D

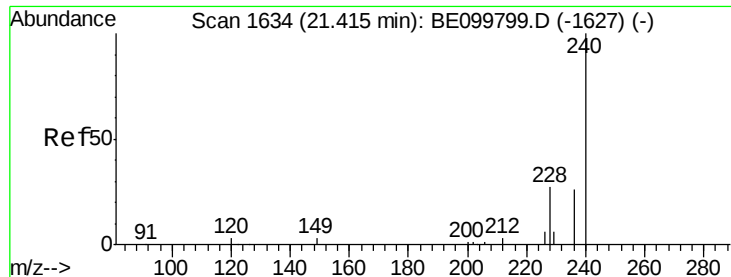
Acq: 7 Jun 2019 3:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.8	5.2	7.8
203	19.5	13.6	20.4



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





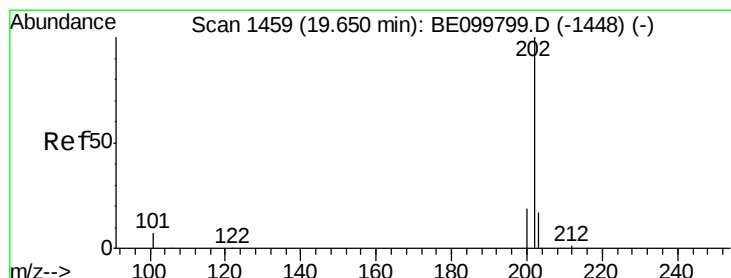
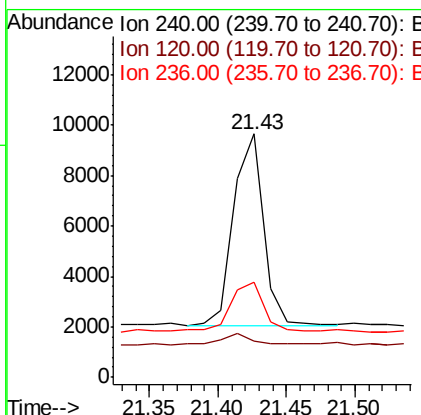
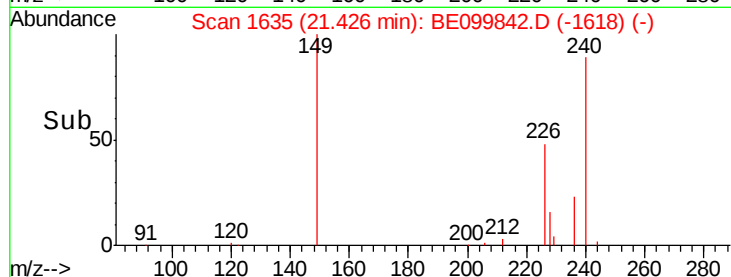
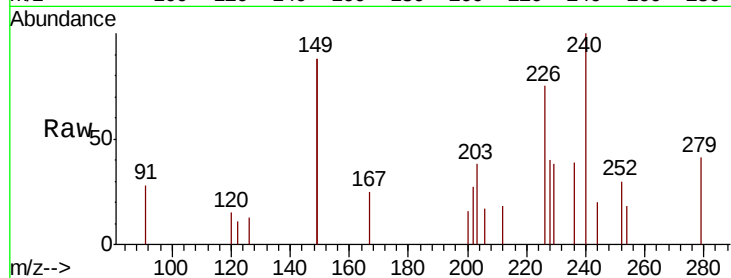
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.43 min Scan# 1635
Delta R.T. 0.01 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Instrument :
BNA_E
ClientSampleId :
BPS1-TT-MW313S-20190605

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.1	2.8	4.2#
236	39.3	20.9	31.3#

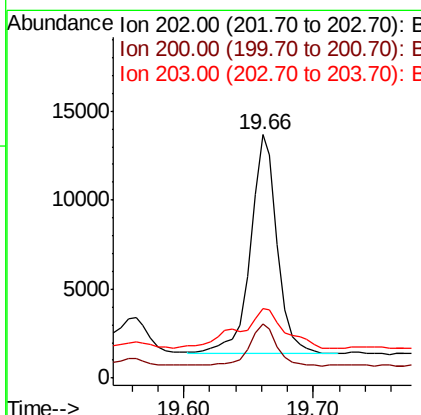
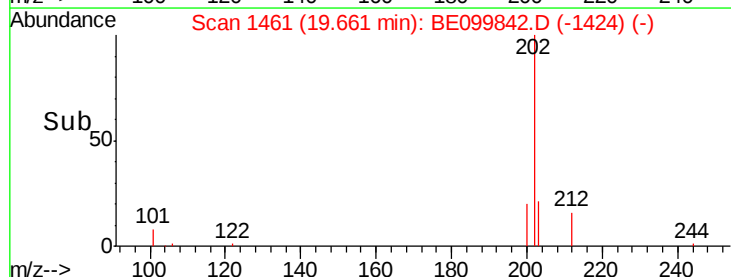
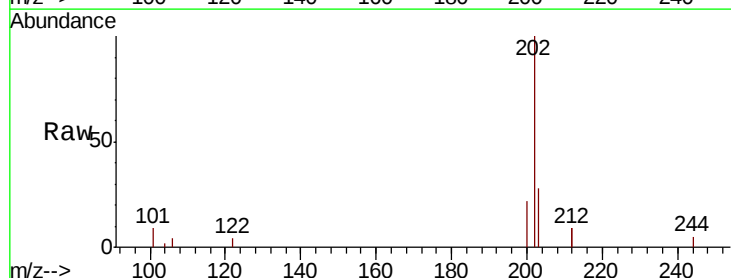
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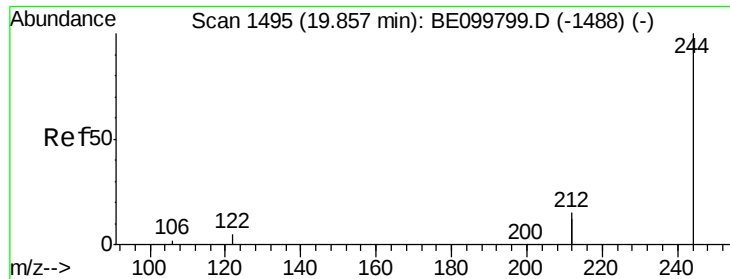
mohammad
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#28
Pyrene
Concen: 0.641 ng
RT: 19.66 min Scan# 1461
Delta R.T. 0.01 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.6	15.6	23.4
203	33.0	14.1	21.1#





#29

Terphenyl-d14

Concen: 0.552 ng

RT: 19.86 min Scan# 1496

Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Instrument :

BNA_E

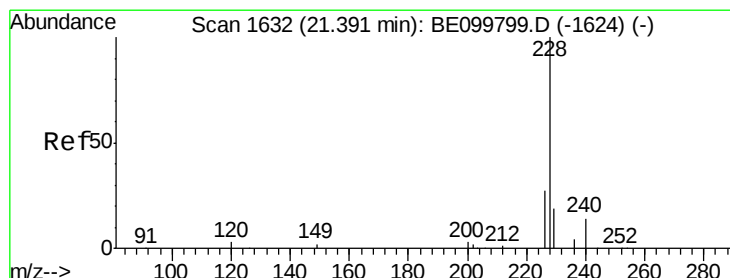
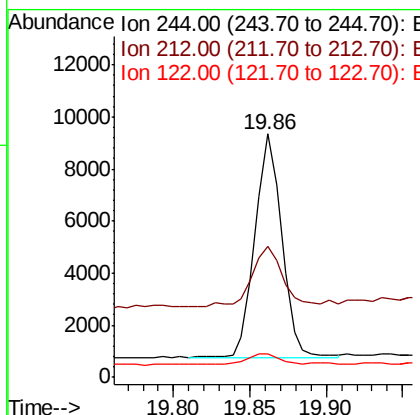
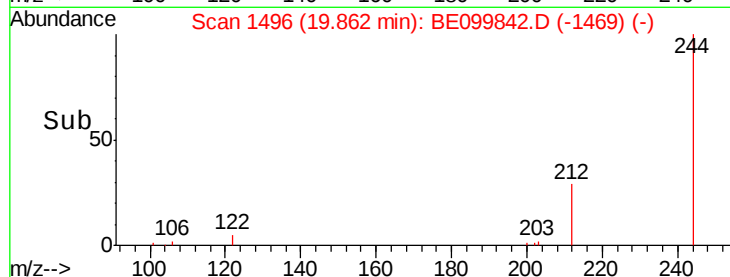
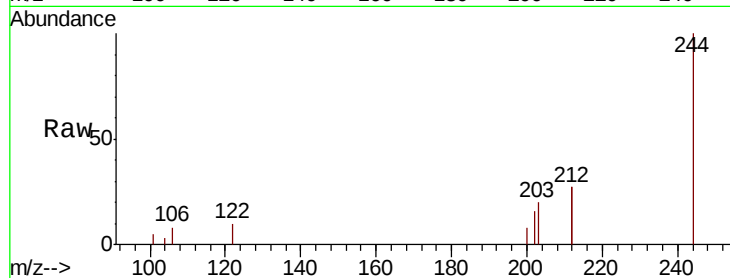
ClientSampleId :

BPS1-TT-MW313S-20190605

Tot Ion	Ratio	Lower	Upper
244	100		
212	53.5	23.7	35.5#
122	9.9	4.8	7.2#

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#30

Benzo(a)anthracene

Concen: 0.379 ng

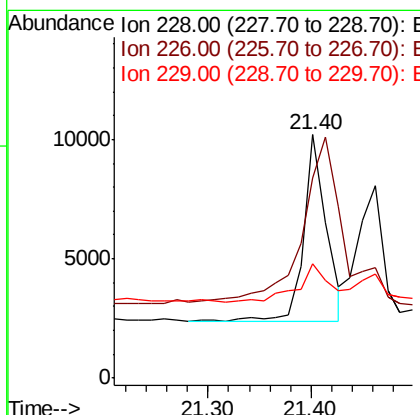
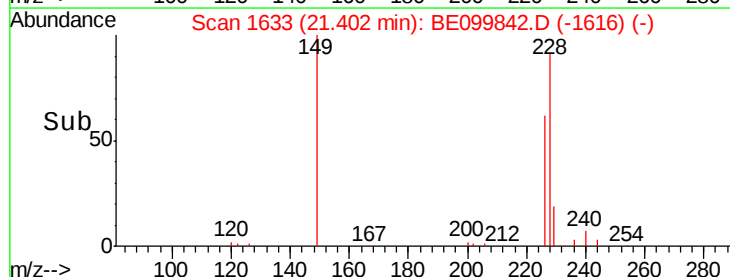
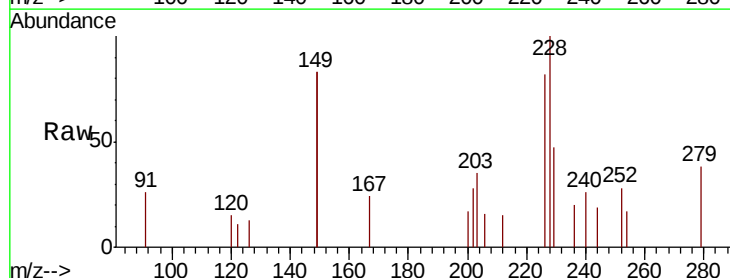
RT: 21.40 min Scan# 1633

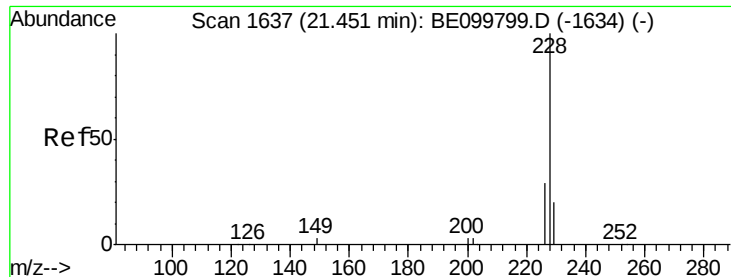
Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	81.9	21.6	32.4#
229	47.2	15.8	23.6#





#31

Chrysene

Concen: 0.232 ng

RT: 21.46 min Scan# 1638

Delta R.T. 0.01 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Instrument :

BNA_E

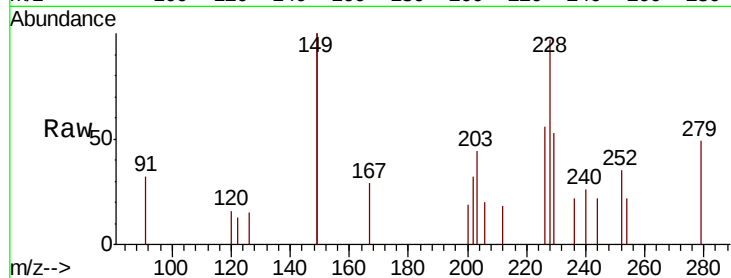
ClientSampleId :

BPS1-TT-MW313S-20190605

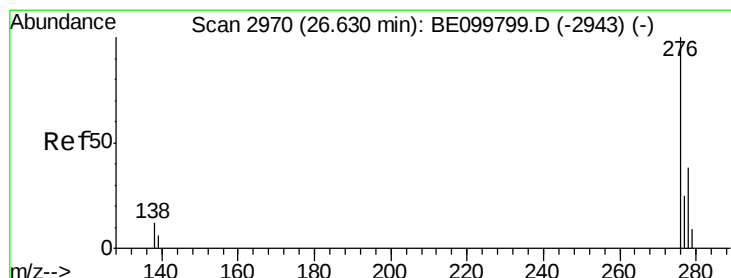
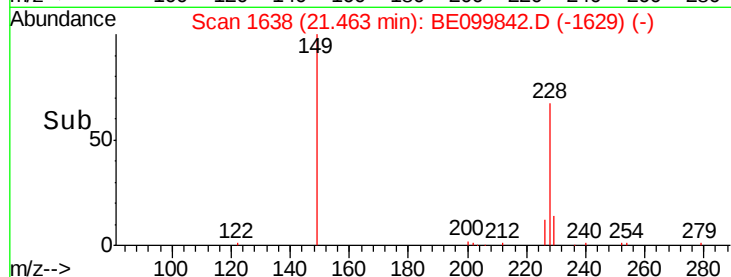
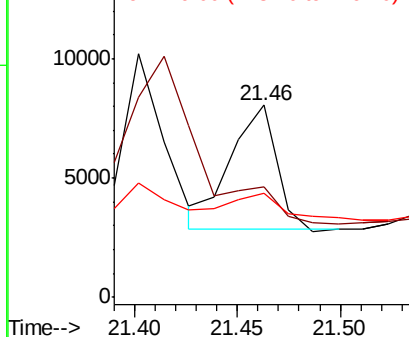
Tot Ion:	228	Resp:	8118
Ion Ratio	Lower	Upper	
228	100		
226	57.6	22.9	34.3#
229	54.1	16.4	24.6#

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.437 ng

RT: 26.67 min Scan# 2981

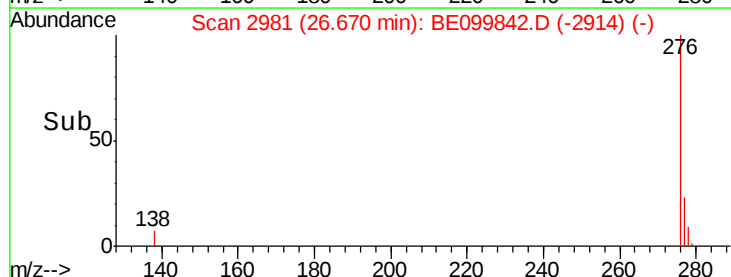
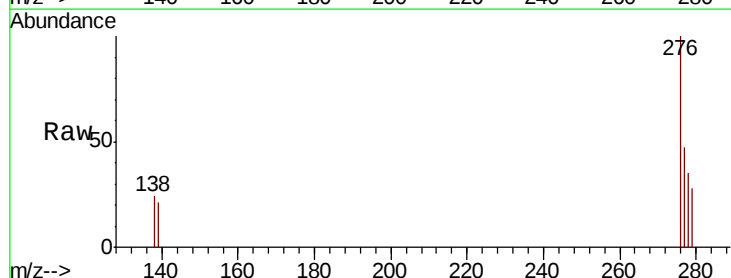
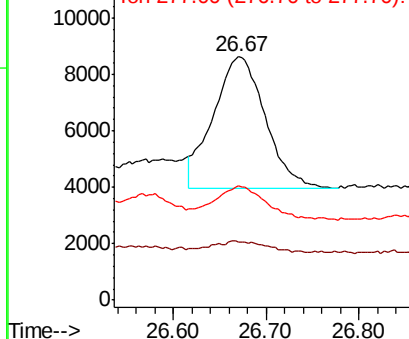
Delta R.T. 0.04 min

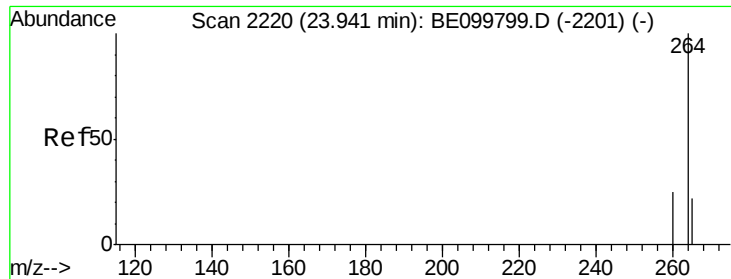
Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Tgt Ion:	276	Resp:	18305
Ion Ratio	Lower	Upper	
276	100		
138	5.8	10.3	15.5#
277	24.0	19.4	29.2

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





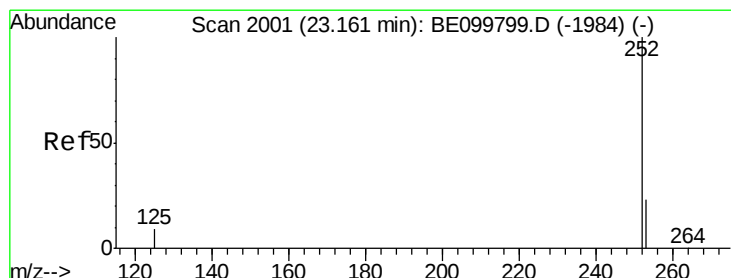
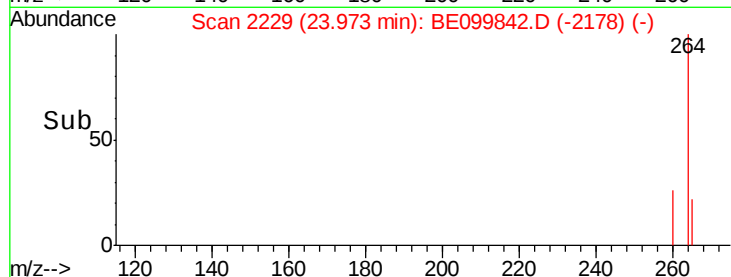
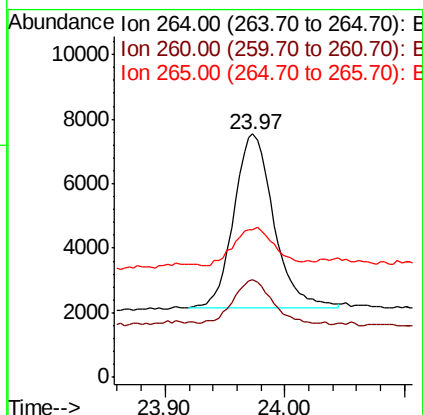
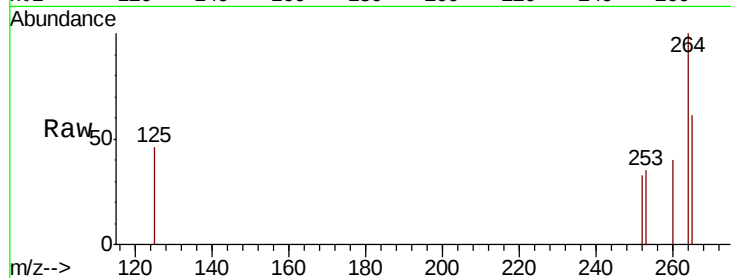
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.97 min Scan# 2229
Delta R.T. 0.03 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Instrument :
BNA_E
ClientSampleId :
BPS1-TT-MW313S-20190605

Tot Ion	Ratio	Lower	Upper
264	100		
260	40.1	20.0	30.0#
265	60.7	20.7	31.1#

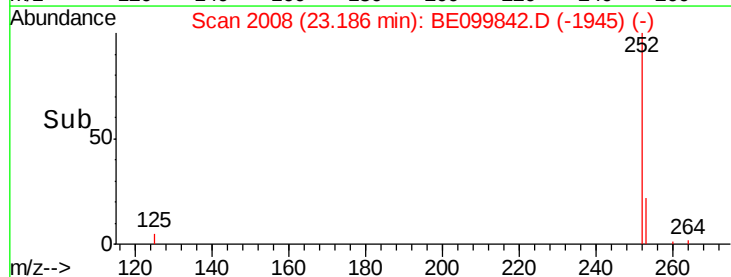
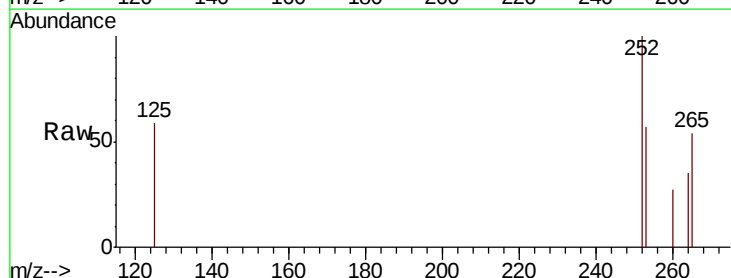
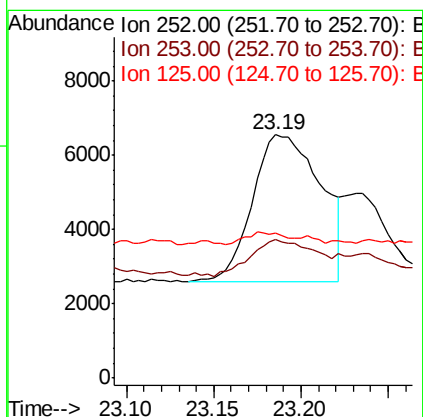
Manual Integrations
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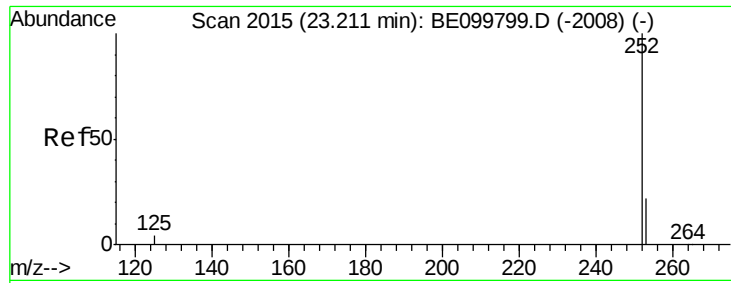
mohammad
6/7/2019 2:11:02 PM



#35
Benzo(b)fluoranthene
Concen: 0.316 ng
RT: 23.19 min Scan# 2008
Delta R.T. 0.02 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	57.1	18.9	28.3#
125	59.4	7.6	11.4#





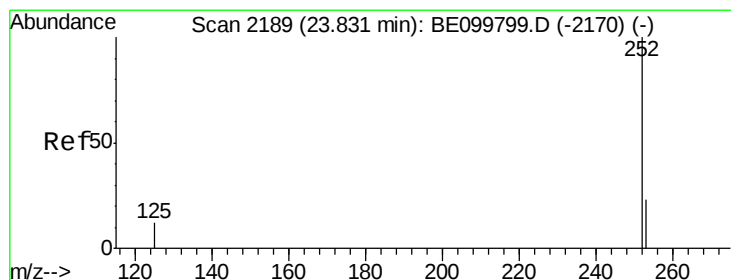
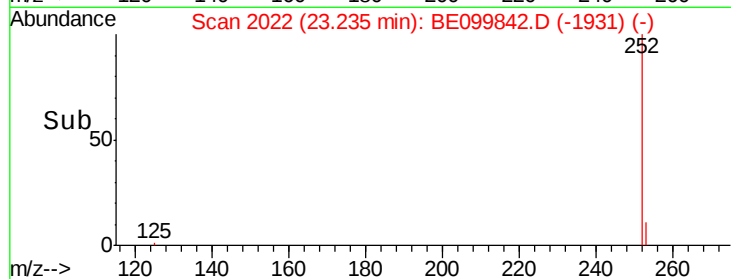
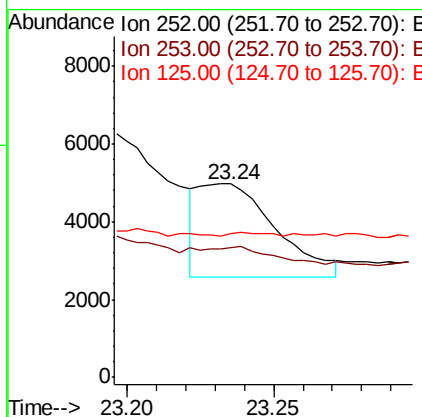
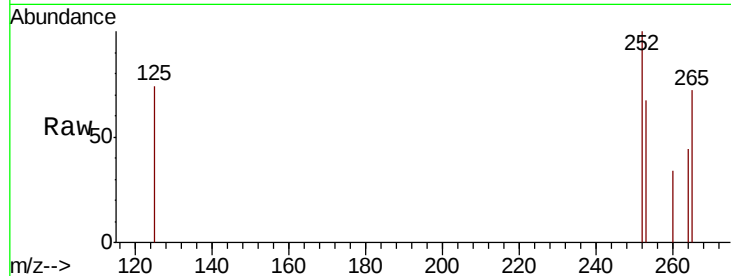
#36
Benzo(k)fluoranthene
Concen: 0.121 ng m
RT: 23.24 min Scan# 2022
Delta R.T. 0.02 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Instrument :
BNA_E
ClientSampleId :
BPS1-TT-MW313S-20190605

Tot Ion:252 Resp: 4397
Ion Ratio Lower Upper
252 100
253 67.2 18.4 27.6#
125 74.3 4.6 7.0#

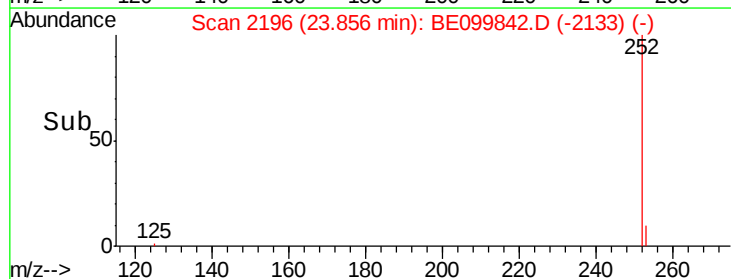
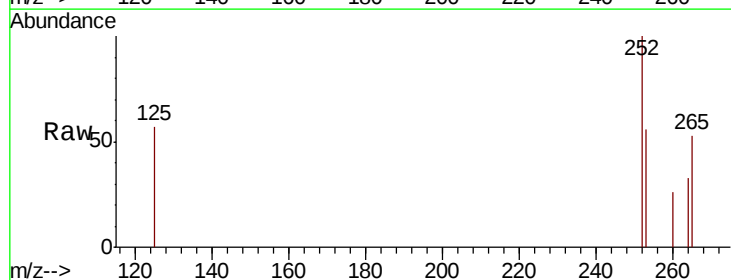
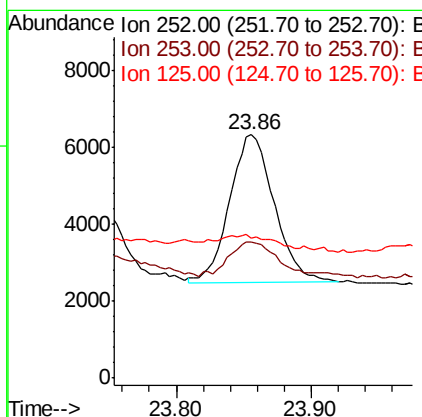
Manual Integrations
APPROVED

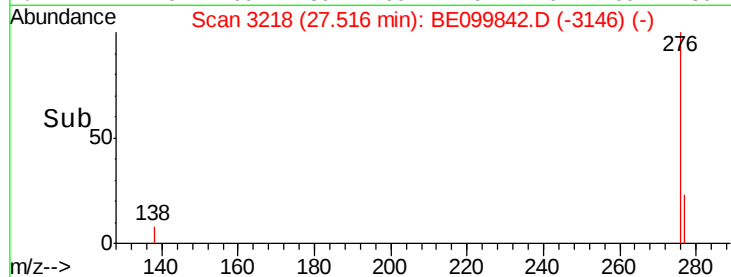
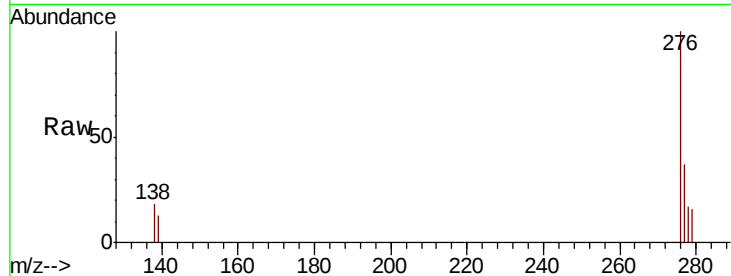
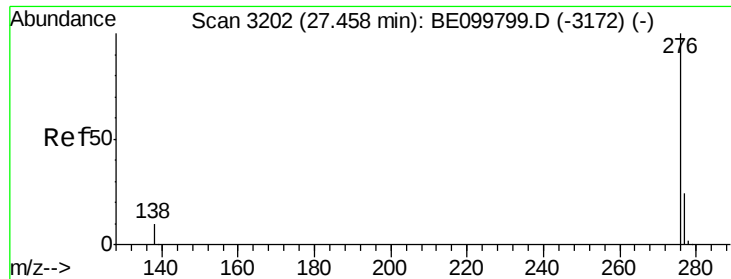
mohammad
6/7/2019 2:11:02 PM



#37
Benzo(a)pyrene
Concen: 0.265 ng
RT: 23.86 min Scan# 2196
Delta R.T. 0.02 min
Lab File: BE099842.D
Acq: 7 Jun 2019 3:27

Tgt Ion:252 Resp: 8806
Ion Ratio Lower Upper
252 100
253 56.1 19.3 28.9#
125 57.3 10.2 15.4#





#39

Benzo(a,h,i)perylene

Concen: 1.251 ng

RT: 27.52 min Scan# 3218

Delta R.T. 0.06 min

Lab File: BE099842.D

Acq: 7 Jun 2019 3:27

Tot Ion	Ratio	Lower	Upper
276	100		
277	37.1	19.6	29.4#
138	18.3	9.0	13.4#

Instrument :

BNA_E

ClientSampleId :

BPS1-TT-MW313S-20190605

Manual Integrations
APPROVED

mohammad
6/7/2019 2:11:02 PM

