

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE061319\
 Data File : BE099988.D
 Acq On : 13 Jun 2019 14:08
 Operator : JU/SJ
 Sample : K3270-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 TW-02

Manual Integrations
 APPROVED

mohammad
 6/14/2019 8:45:41 AM

Quant Time: Jun 14 04:00:43 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	971	0.40	ng	-0.02
7) Naphthalene-d8	10.62	136	3374	0.40	ng	0.01
13) Acenaphthene-d10	14.46	164	5995	0.40	ng	-0.01
19) Phenanthrene-d10	17.21	188	9506	0.40	ng	0.00
27) Chrysene-d12	21.39	240	12530	0.40	ng	-0.01
34) Perylene-d12	23.92	264	13415	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.35	112	7751	2.96	ng	0.00
5) Phenol-d6	6.95	99	564	0.17	ng	-0.02
8) Nitrobenzene-d5	8.95	82	1588	0.50	ng	-0.01
11) 2-Methylnaphthalene-d10	12.20	152	2114	0.36	ng	-0.01
14) 2,4,6-Tribromophenol	15.96	330	1054	0.24	ng	-0.01
15) 2-Fluorobiphenyl	13.07	172	4750	0.21	ng	-0.03
25) Fluoranthene-d10	19.24	212	46462	0.34	ng	-0.01
29) Terphenyl-d14	19.84	244	11865	0.53	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.72	128	82723011	2271.268	ng	98
12) 2-Methylnaphthalene	12.30	142	2943458	497.440	ng	97
16) Acenaphthylene	14.18	152	55830	1.872	ng	# 48
17) Acenaphthene	14.54	154	1135353	69.892	ng	100
18) Fluorene	15.50	166	517782	21.236	ng	100
22) Pentachlorophenol	16.87	266	133	0.350	ng	96
23) Phenanthrene	17.25	178	1112114	48.213	ng	99
24) Anthracene	17.33	178	222555	10.523	ng	99
26) Fluoranthene	19.28	202	164555	4.197	ng	97
28) Pylene	19.64	202	242801	7.376	ng	98
30) Benzo(a)anthracene	21.38	228	36622	0.978	ng	92
31) Chrysene	21.43	228	31392	0.811	ng	94
32) Bis(2-ethylhexyl)phthalate	21.29	149	5342	0.099	ng	# 93
33) Indeno(1,2,3-cd)pyrene	26.60	276	9148	0.199	ng	98
35) Benzo(b)fluoranthene	23.15	252	20937	0.557	ng	# 92
36) Benzo(k)fluoranthene	23.19	252	7464m	0.190	ng	
37) Benzo(a)pyrene	23.81	252	22009	0.594	ng	99
38) Dibenzo(a,h)anthracene	26.62	278	2232	0.060	ng	# 57
39) Benzo(g,h,i)perylene	27.42	276	9630	0.250	ng	96

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

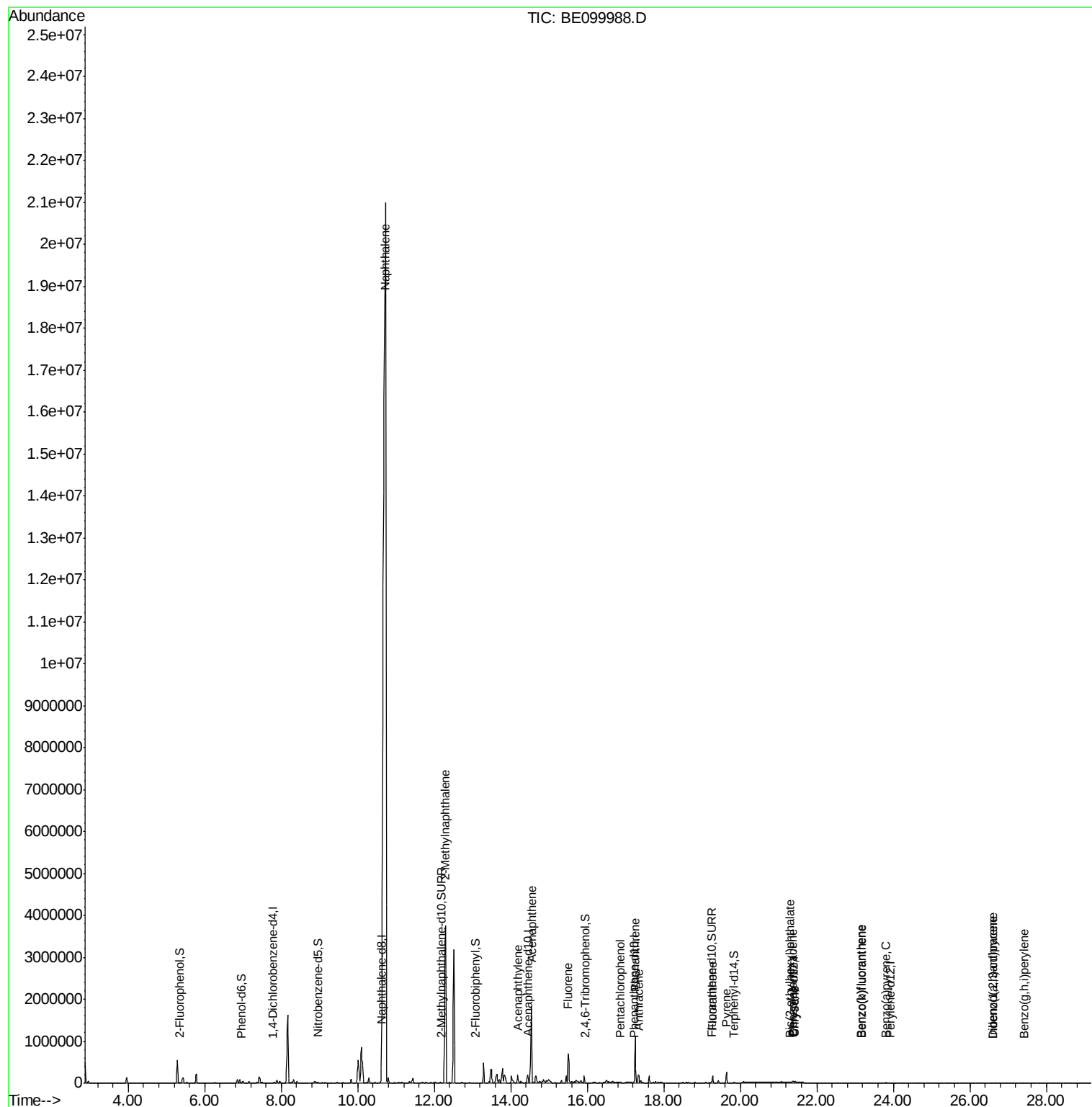
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE061319\
Data File : BE099988.D
Acq On : 13 Jun 2019 14:08
Operator : JU/SJ
Sample : K3270-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

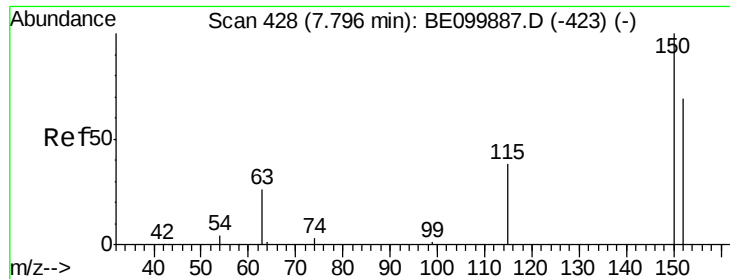
Instrument :
BNA_E
ClientSampleId :
TW-02

Quant Time: Jun 14 04:00:43 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

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#1

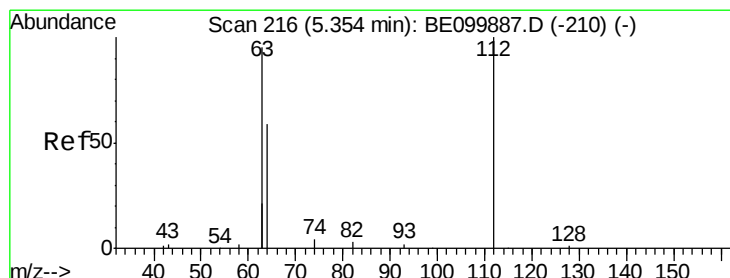
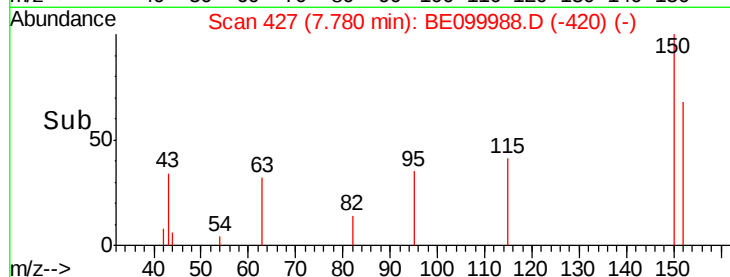
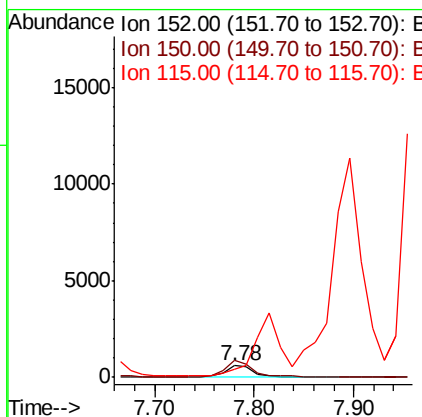
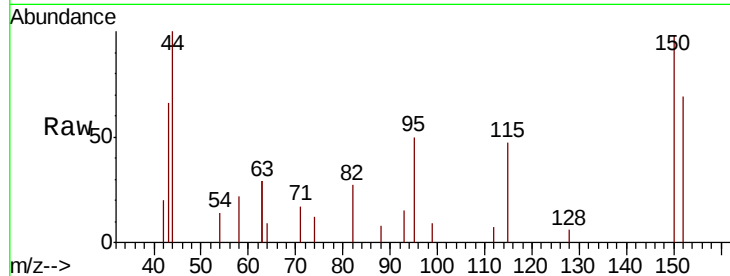
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.78 min Scan# 427
Delta R.T. -0.02 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampleId :
TW-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	142.5	111.0	166.6
115	68.9	50.7	76.1

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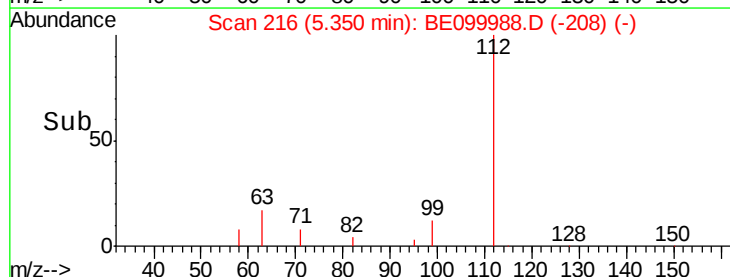
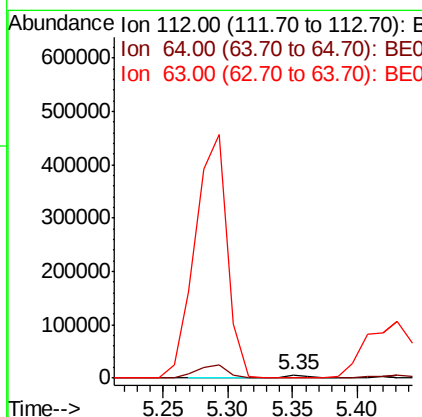
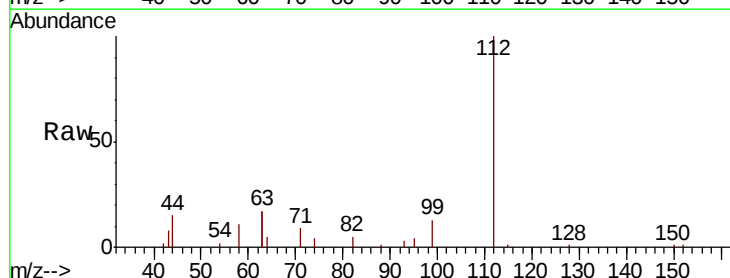
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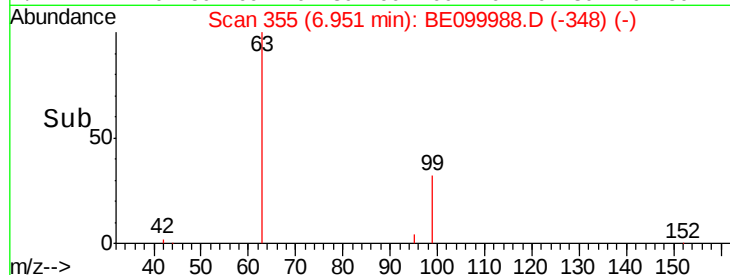
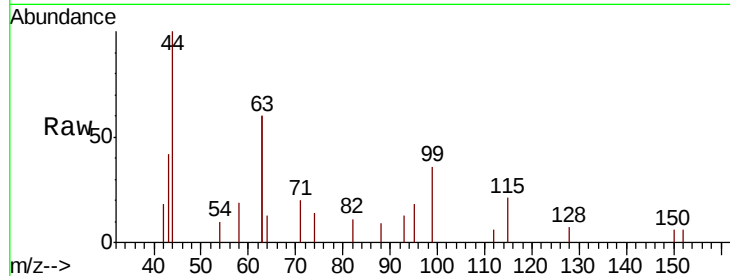
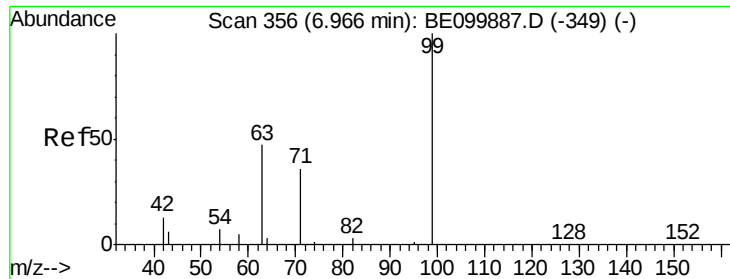


#4

2-Fluorophenol
Concen: 2.957 ng
RT: 5.35 min Scan# 216
Delta R.T. -0.00 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

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





#5

Phenol-d6

Concen: 0.167 ng

RT: 6.95 min Scan# 355

Delta R.T. -0.02 min

Lab File: BE099988.D

Acq: 13 Jun 2019 14:08

Tot Ion:	99	Resp:	564
Ion	Ratio	Lower	Upper
99	100		
42	0.0	15.9	23.9#
71	20.9	34.6	52.0#

Instrument :

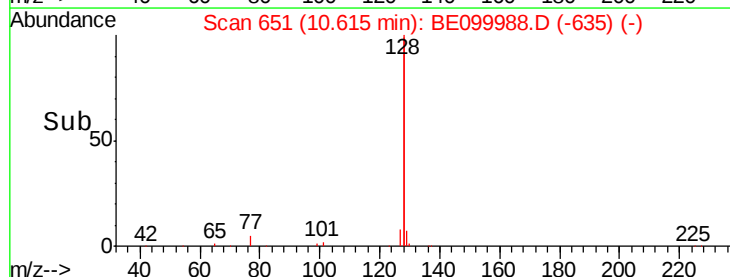
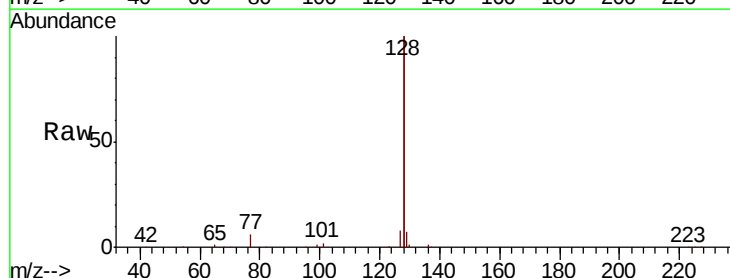
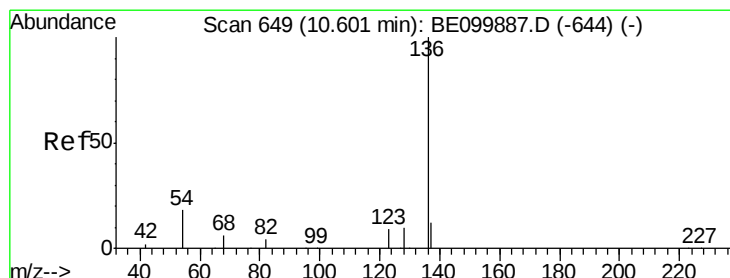
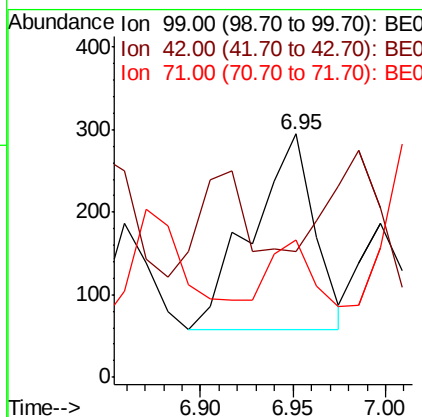
BNA_E

ClientSampled :

TW-02

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#7

Naphthalene-d8

Concen: 0.400 ng

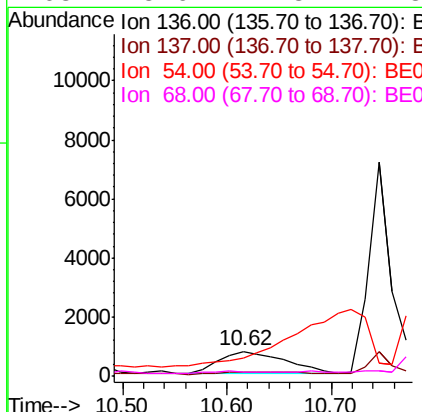
RT: 10.62 min Scan# 651

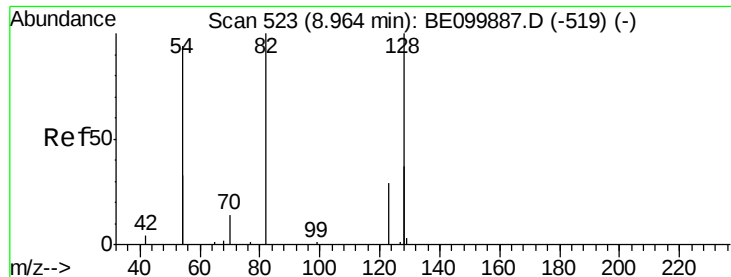
Delta R.T. 0.01 min

Lab File: BE099988.D

Acq: 13 Jun 2019 14:08

Tgt Ion:	136	Resp:	3374
Ion	Ratio	Lower	Upper
136	100		
137	17.2	12.3	18.5
54	72.8	28.2	42.4#
68	15.6	7.8	11.8#





#8

Nitrobenzene-d5

Concen: 0.497 ng

RT: 8.95 min Scan# 523

Delta R.T. -0.01 min

Lab File: BE099888.D

Acq: 13 Jun 2019 14:08

Instrument :

BNA_E

ClientSampleId :

TW-02

Tot Ion: 82 Resp: 1588

Ion Ratio Lower Upper

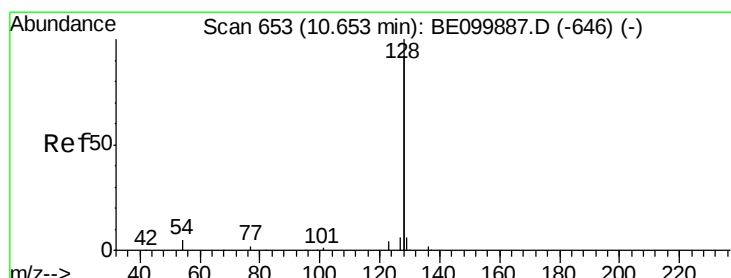
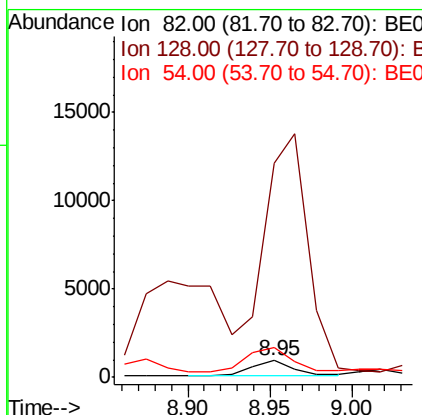
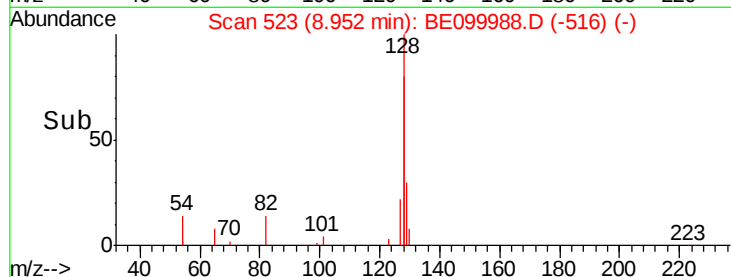
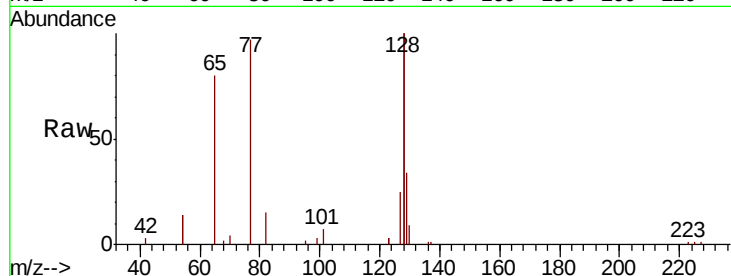
82 100

128 1297.0 137.3 205.9

54 179.7 129.7 194.5

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#9

Naphthalene

Concen: 2271.268 ng

RT: 10.72 min Scan# 659

Delta R.T. 0.07 min

Lab File: BE099888.D

Acq: 13 Jun 2019 14:08

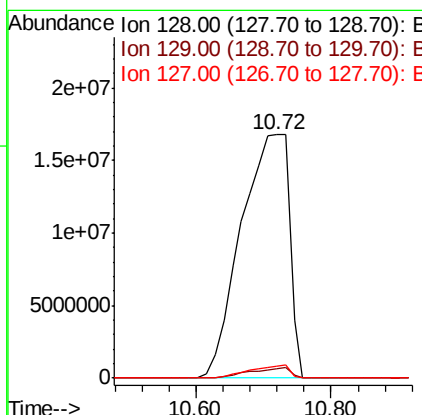
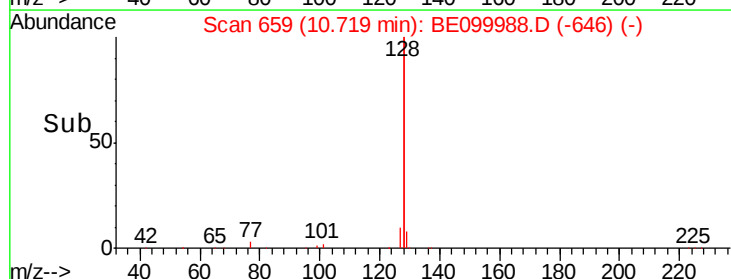
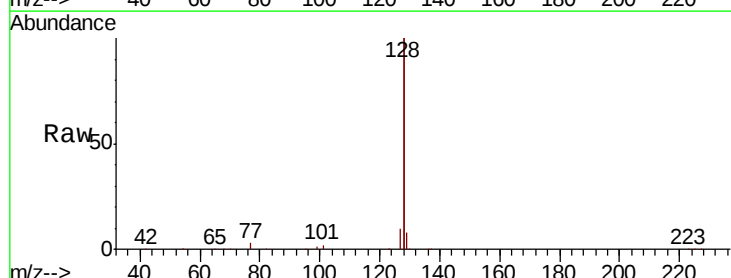
Tgt Ion: 128 Resp: 82723011

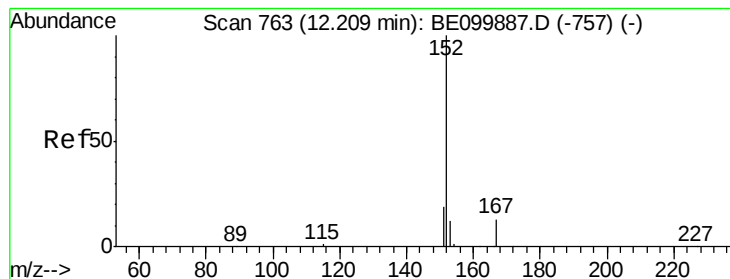
Ion Ratio Lower Upper

128 100

129 4.0 3.0 4.6

127 5.0 3.4 5.0





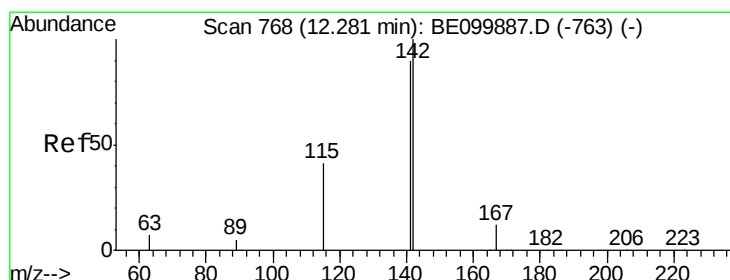
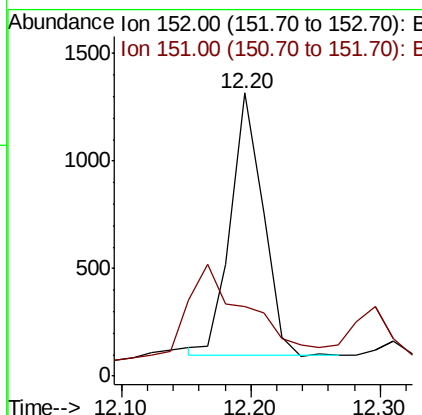
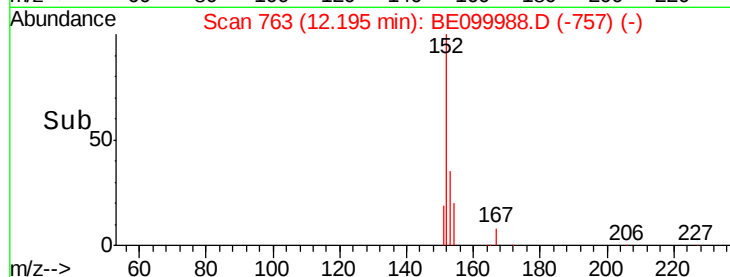
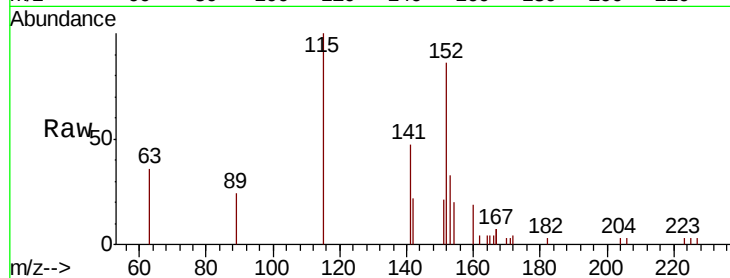
#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.20 min Scan# 763
Delta R.T. -0.01 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampleId :
TW-02

Tot Ion	Ratio	Lower	Upper
152	100		
151	0.0	15.2	22.8#

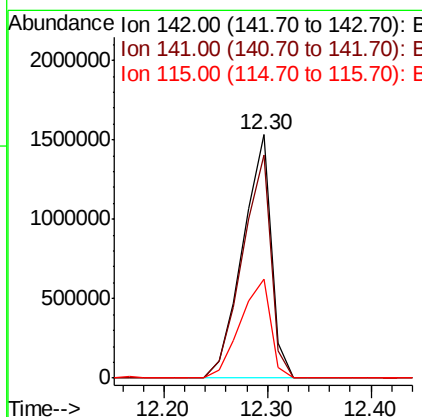
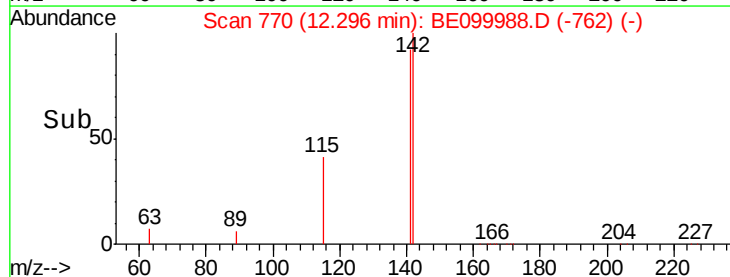
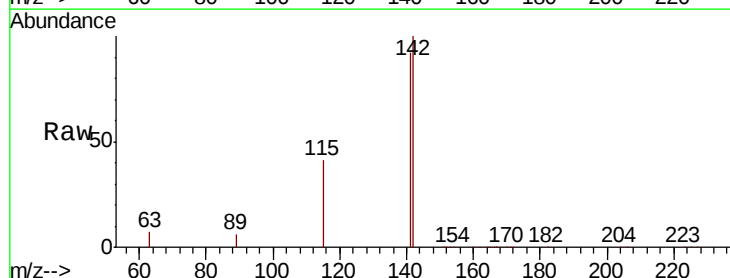
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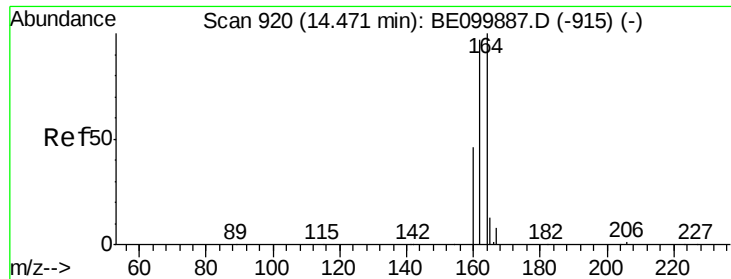
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#12
2-Methylnaphthalene
Concen: 497.440 ng
RT: 12.30 min Scan# 770
Delta R.T. 0.02 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.7	72.3	108.5
115	40.8	36.4	54.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 920

Delta R.T. -0.01 min

Lab File: BE099888.D

Acq: 13 Jun 2019 14:08

Instrument :

BNA_E

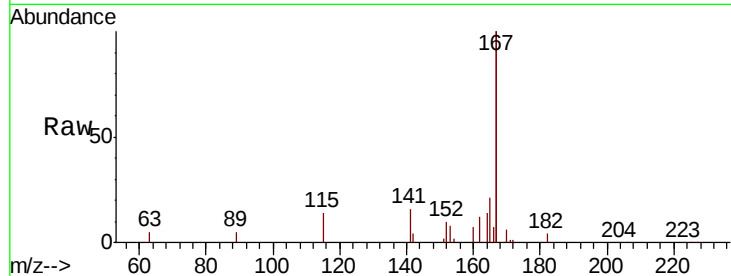
ClientSampleId :

TW-02

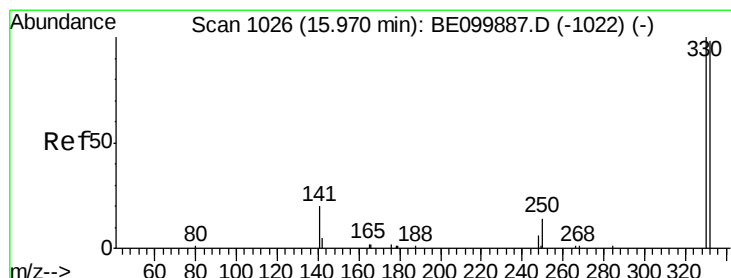
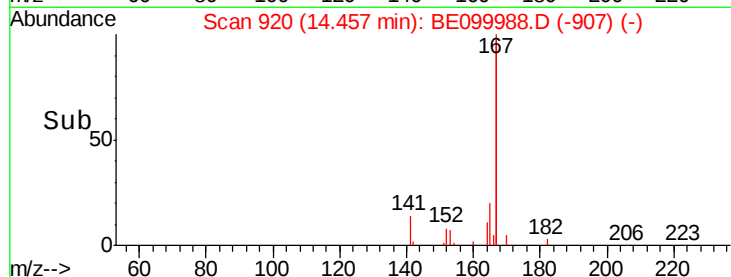
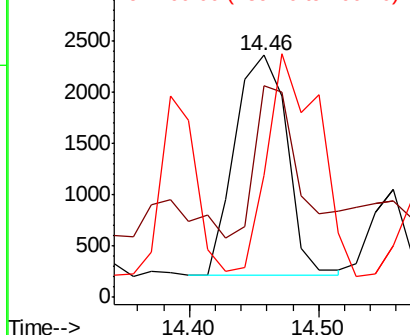
Tot Ion:	164	Resp:	5995
Ion Ratio	Lower	Upper	
164	100		
162	87.3	77.8	116.8
160	50.7	38.2	57.4

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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: 0.238 ng

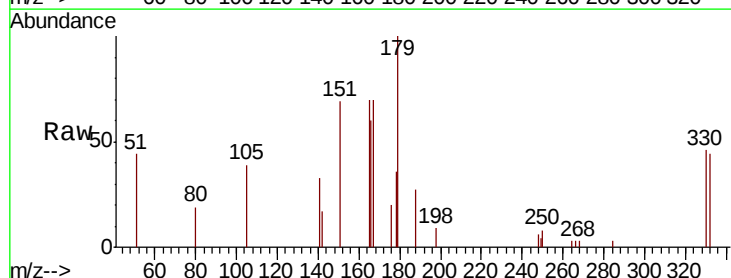
RT: 15.96 min Scan# 1026

Delta R.T. -0.01 min

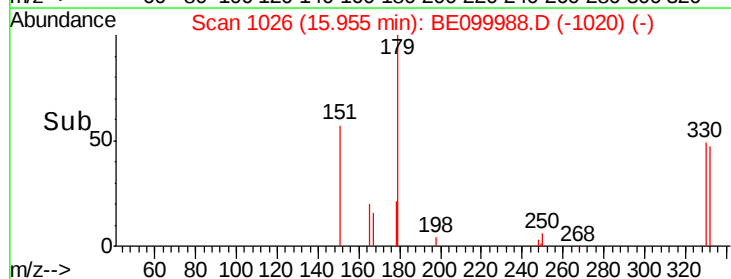
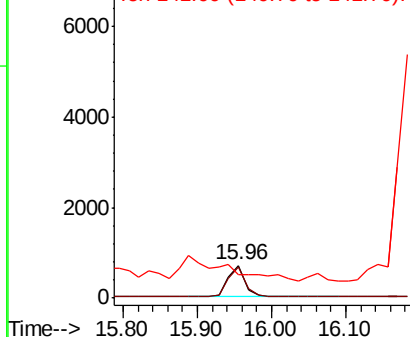
Lab File: BE099888.D

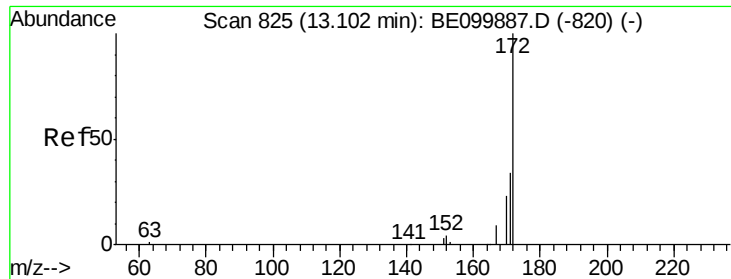
Acq: 13 Jun 2019 14:08

Tgt Ion:	330	Resp:	1054
Ion Ratio	Lower	Upper	
330	100		
332	94.5	76.7	115.1
141	0.0	21.0	31.6#



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





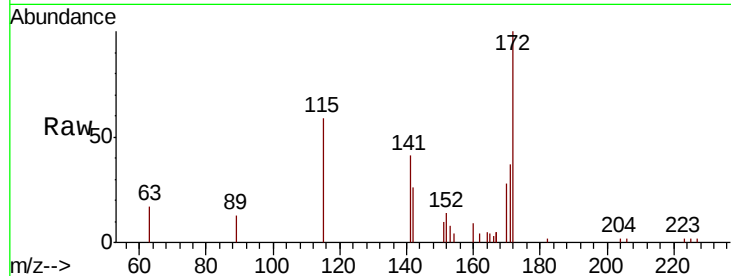
#15
2-Fluorobiphenyl
Concen: 0.209 ng
RT: 13.07 min Scan# 824
Delta R.T. -0.03 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampleId :
TW-02

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.2	43.8
170	28.0	21.2	31.8

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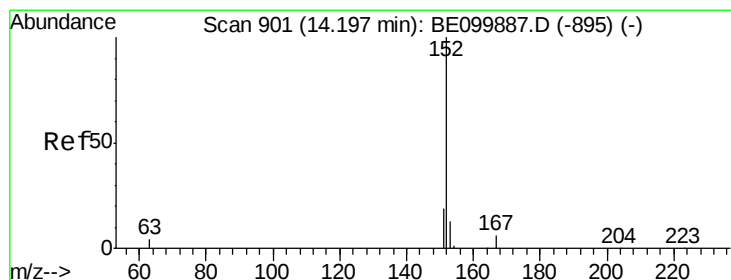
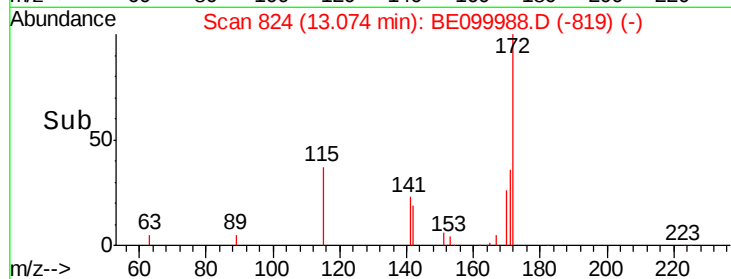
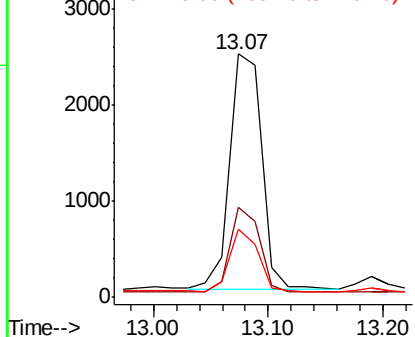


Abundance

Ion 172.00 (171.70 to 172.70): E

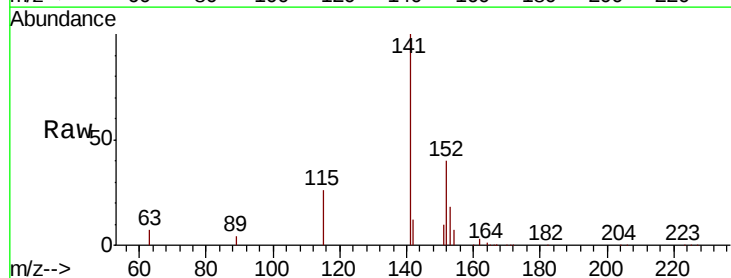
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 1.872 ng
RT: 14.18 min Scan# 901
Delta R.T. -0.01 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	24.9	15.5	23.3#
153	57.4	10.2	15.2#

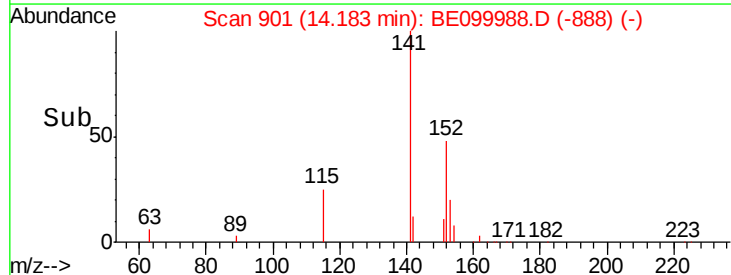
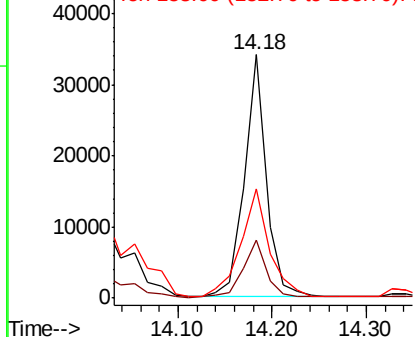


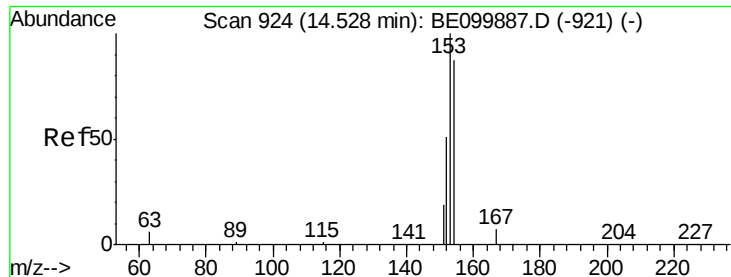
Abundance

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





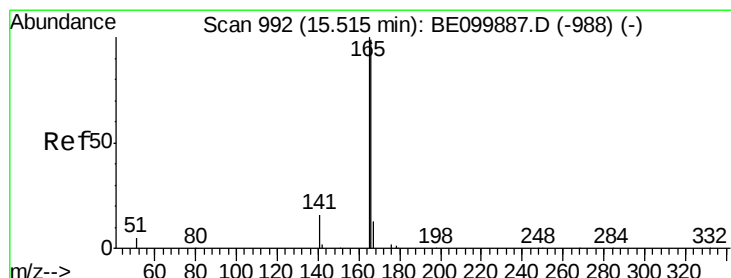
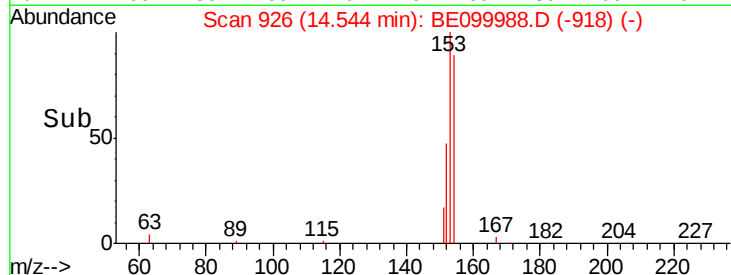
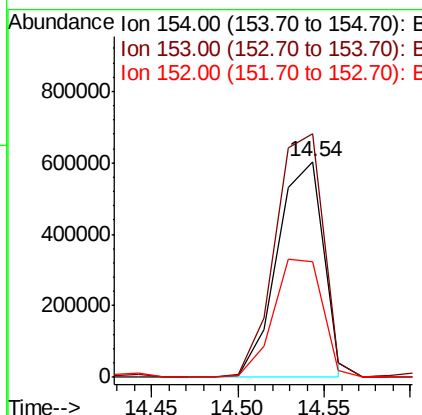
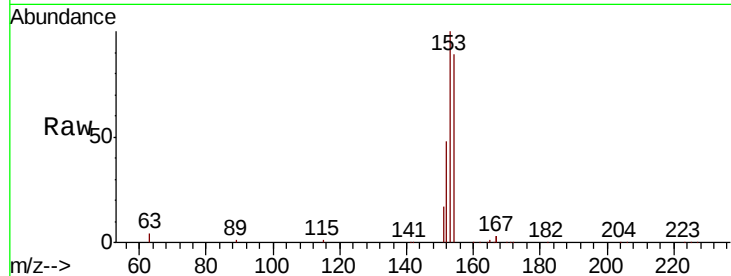
#17
Acenaphthene
Concen: 69.892 ng
RT: 14.54 min Scan# 926
Delta R.T. 0.02 min
Lab File: BE099988.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampleID :
TW-02

Tot Ion:154 Resp: 1135353
Ion Ratio Lower Upper
154 100
153 116.9 93.1 139.7
152 58.3 47.0 70.4

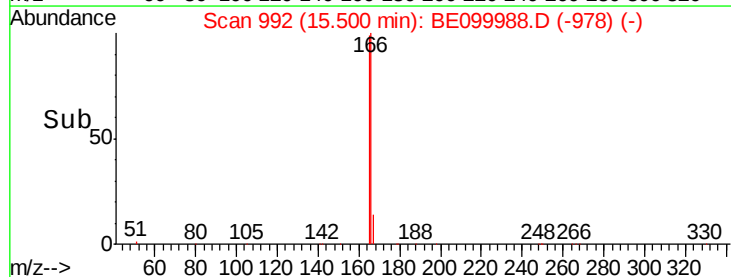
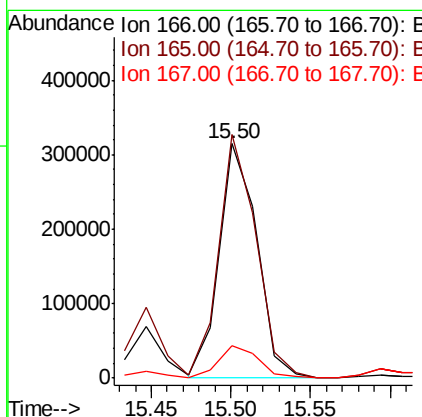
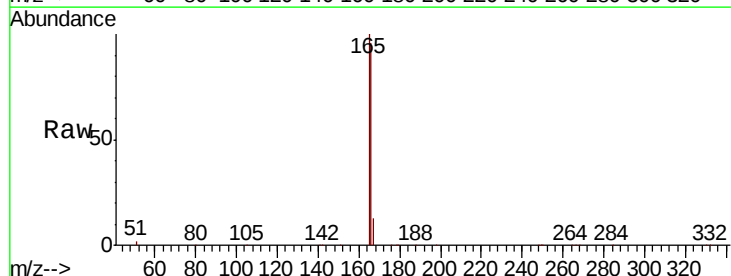
Manual Integrations
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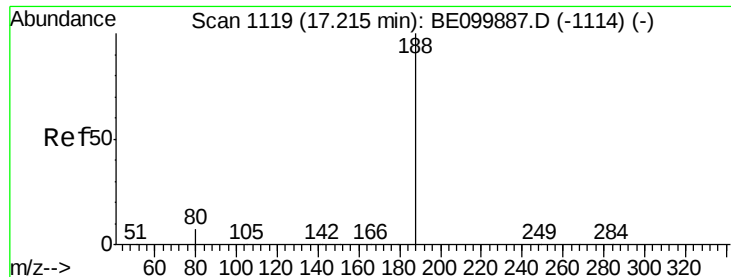
mohammad
6/14/2019 8:45:41 AM



#18
Fluorene
Concen: 21.236 ng
RT: 15.50 min Scan# 992
Delta R.T. -0.01 min
Lab File: BE099988.D
Acq: 13 Jun 2019 14:08

Tgt Ion:166 Resp: 517782
Ion Ratio Lower Upper
166 100
165 102.7 81.8 122.8
167 14.2 11.2 16.8





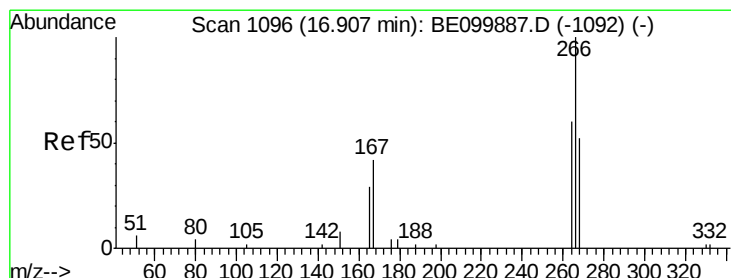
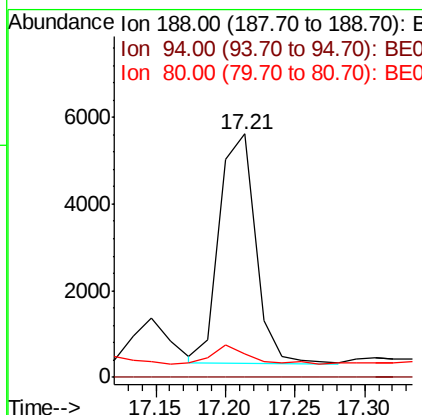
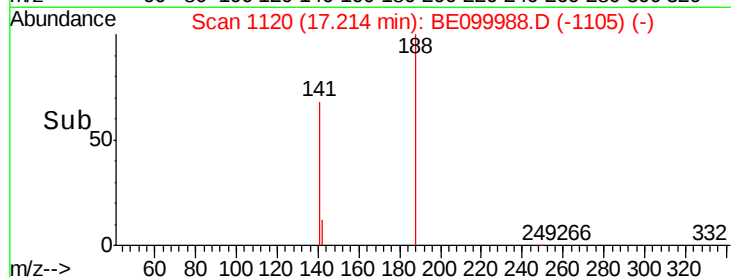
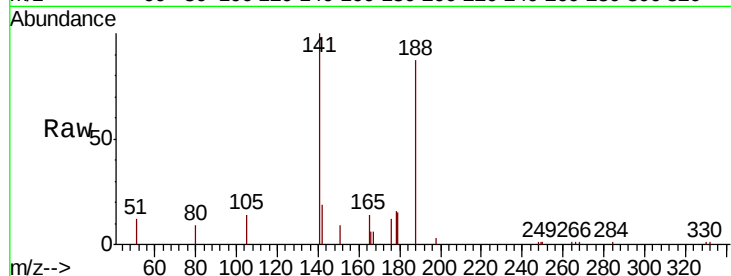
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.21 min Scan# 1120
Delta R.T. -0.00 min
Lab File: BE099988.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampleId :
TW-02

Tot Ion:	188	Resp:	9506
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.8	6.4	9.6#

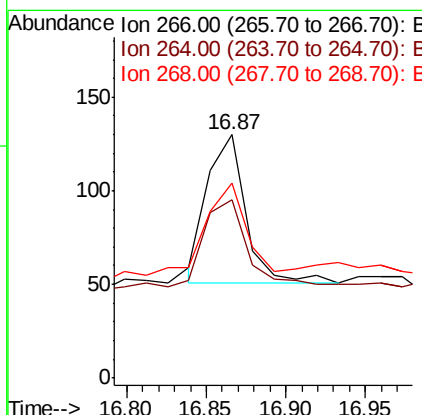
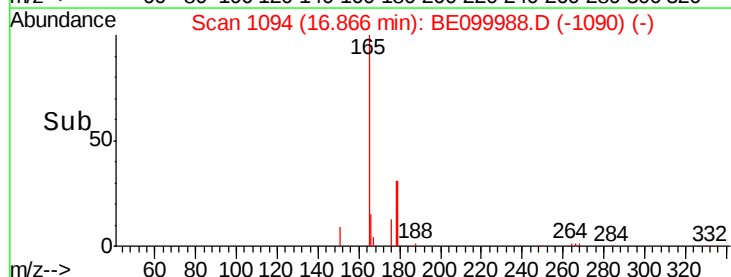
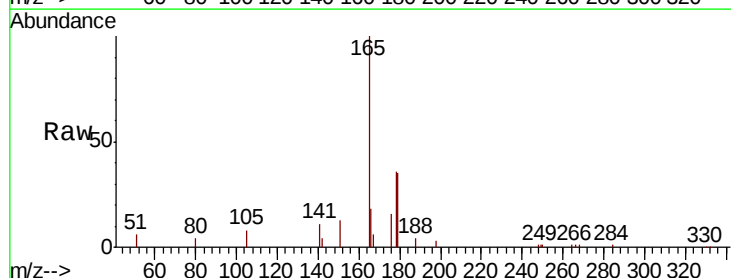
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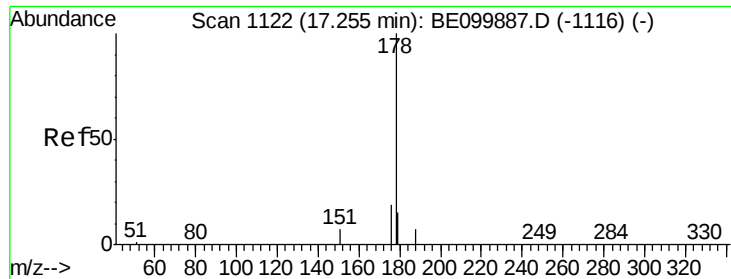
mohammad
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#22
Pentachlorophenol
Concen: 0.350 ng
RT: 16.87 min Scan# 1094
Delta R.T. -0.04 min
Lab File: BE099988.D
Acq: 13 Jun 2019 14:08

Tgt Ion:	266	Resp:	133
Ion Ratio	Lower	Upper	
266	100		
264	73.1	62.2	93.2
268	80.0	65.5	98.3





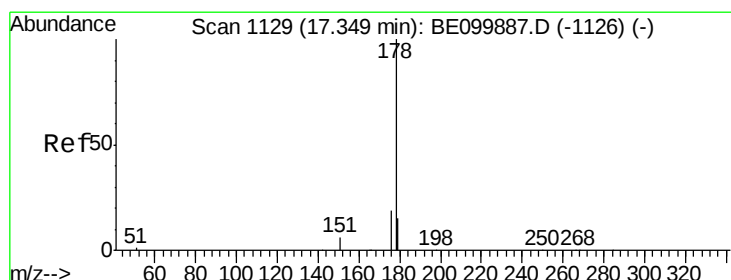
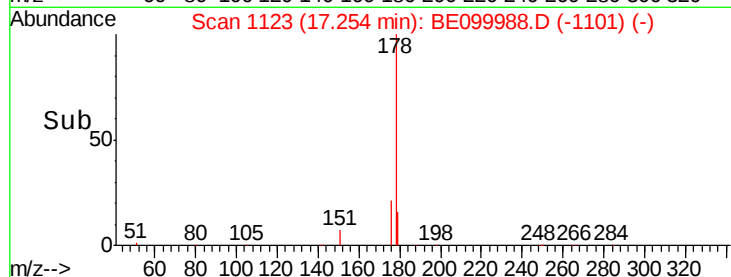
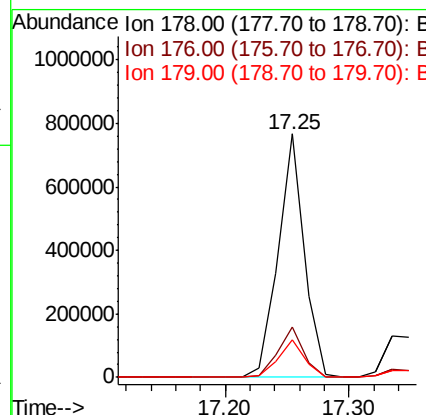
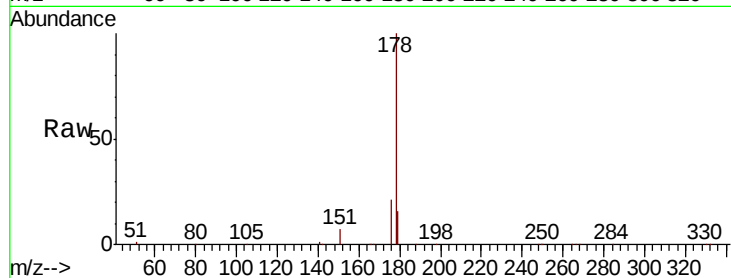
#23
Phenanthrene
Concen: 48.213 ng
RT: 17.25 min Scan# 1123
Delta R.T. -0.00 min
Lab File: BE099988.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampleId :
TW-02

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.8	23.8
179	15.7	12.4	18.6

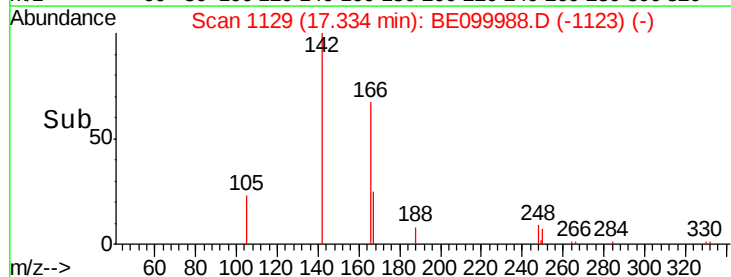
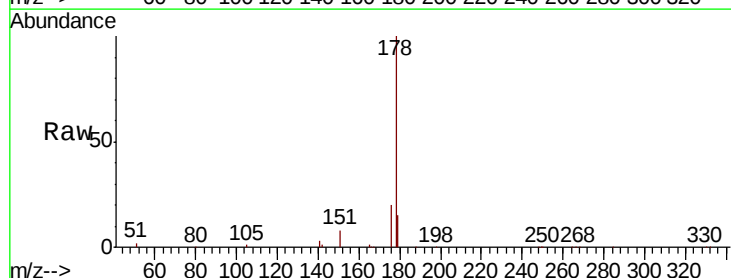
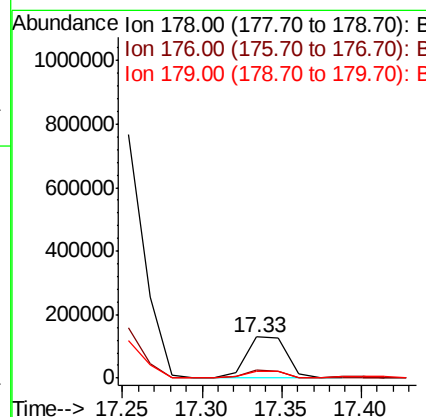
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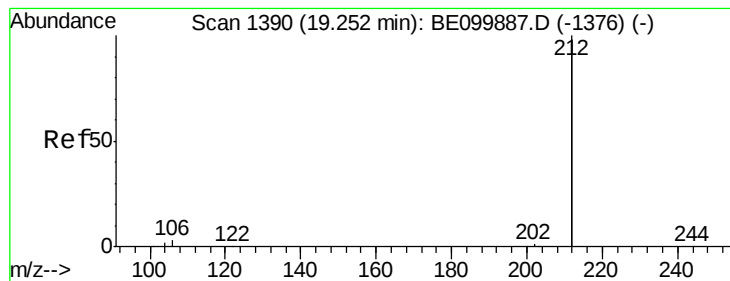
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#24
Anthracene
Concen: 10.523 ng
RT: 17.33 min Scan# 1129
Delta R.T. -0.01 min
Lab File: BE099988.D
Acq: 13 Jun 2019 14:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.6	22.0
179	15.5	12.3	18.5





#25

Fluoranthene-d10

Concen: 0.335 ng

RT: 19.24 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099888.D

Acq: 13 Jun 2019 14:08

Instrument :

BNA_E

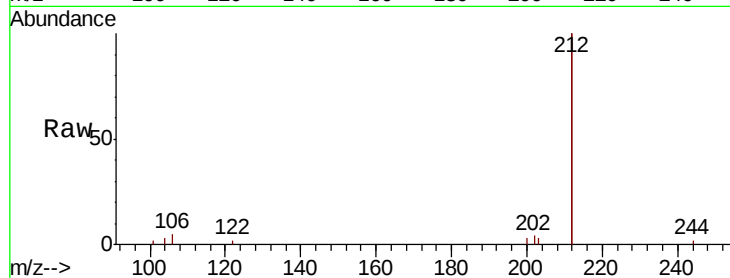
ClientSampleId :

TW-02

Tot Ion:	212	Resp:	46462
Ion Ratio	Lower	Upper	
212	100		
106	1.7	1.4	2.2
104	1.2	0.9	1.3

Manual Integrations
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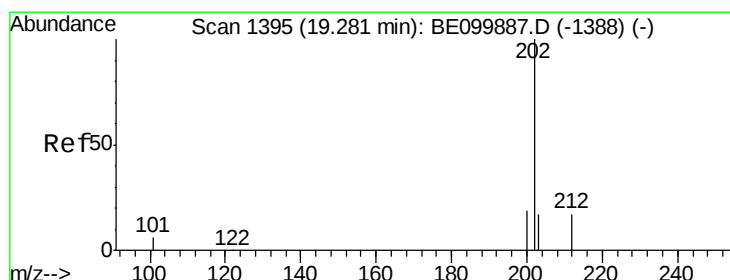
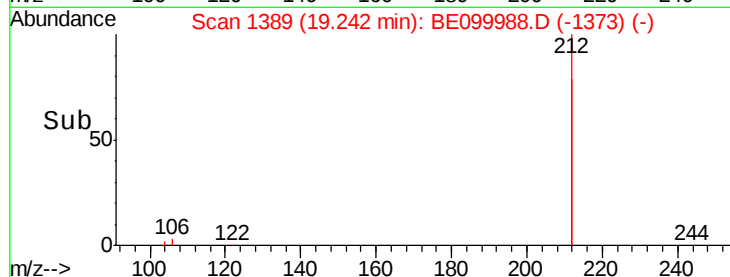
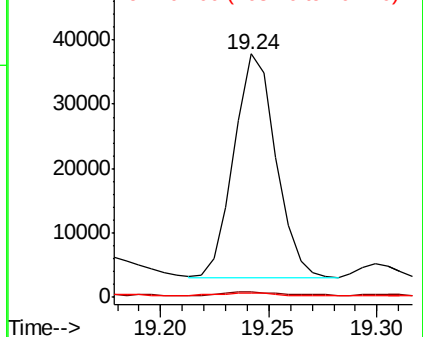


Abundance

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: 4.197 ng

RT: 19.28 min Scan# 1395

Delta R.T. -0.00 min

Lab File: BE099888.D

Acq: 13 Jun 2019 14:08

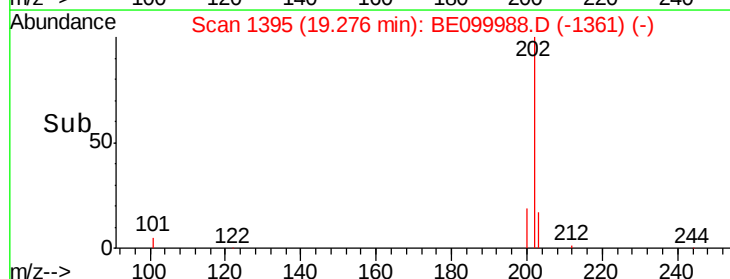
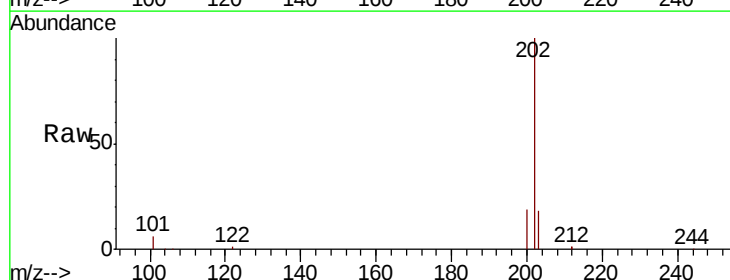
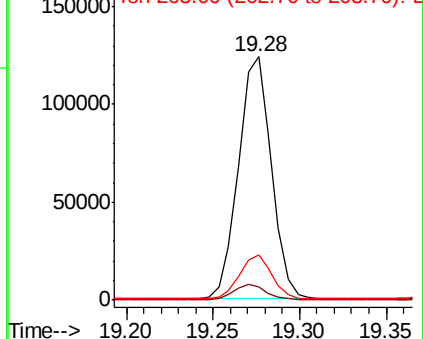
Tgt Ion:	202	Resp:	164555
Ion Ratio	Lower	Upper	
202	100		
101	6.0	5.4	8.0
203	17.7	13.2	19.8

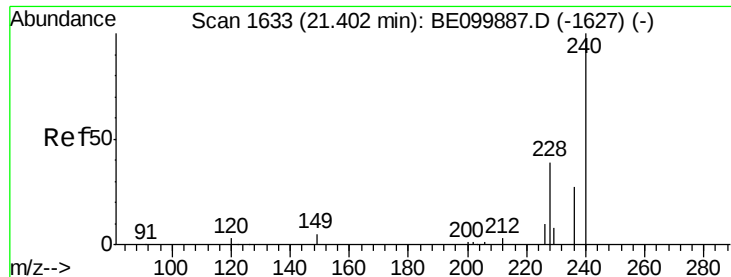
Abundance

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





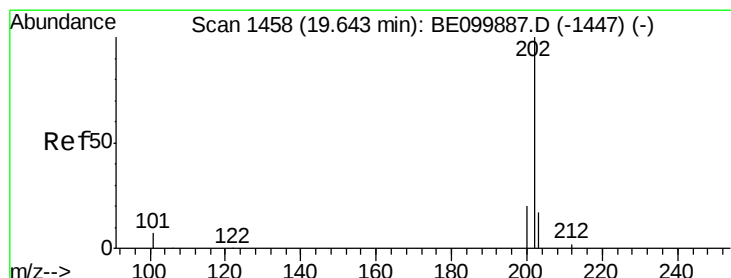
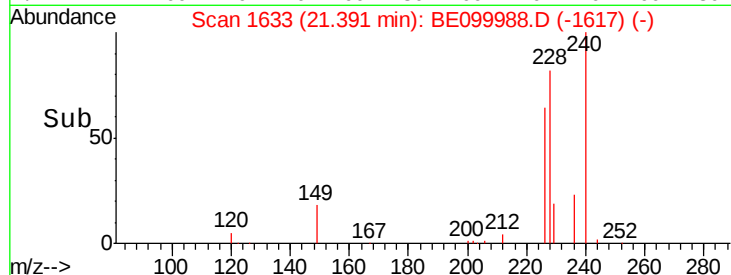
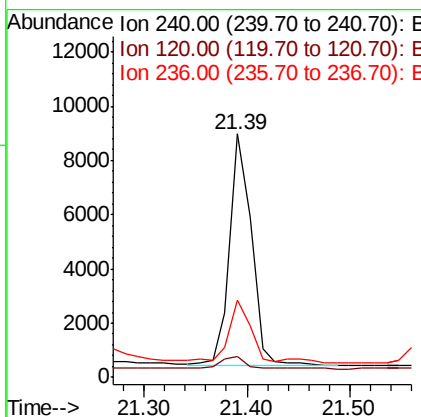
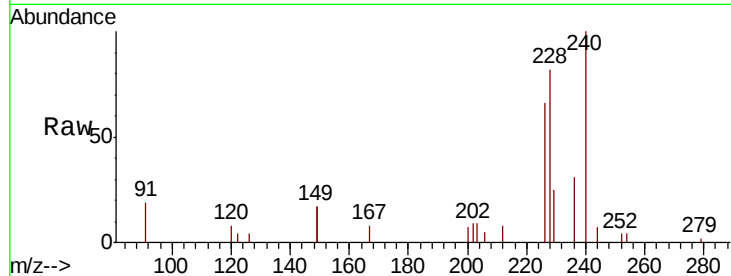
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.39 min Scan# 1633
Delta R.T. -0.01 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampled :
TW-02

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.4	3.8	5.6#
236	31.5	22.0	33.0

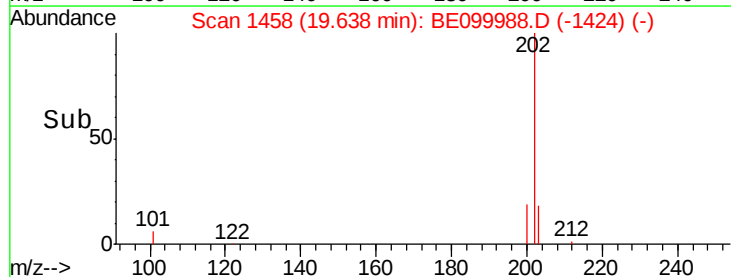
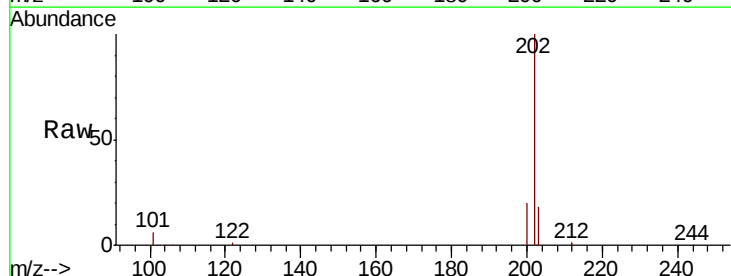
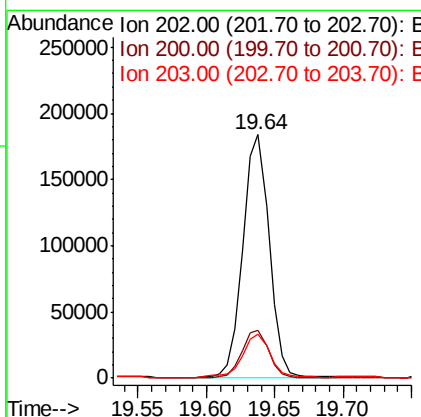
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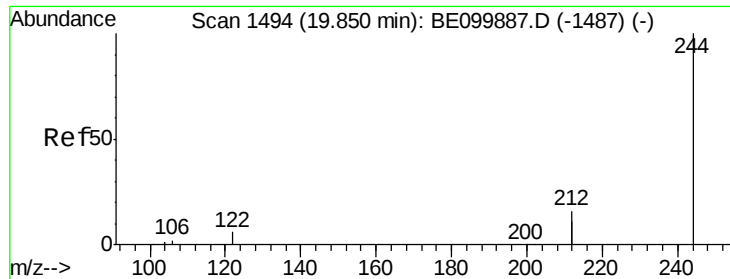
mohammad
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#28
Pyrene
Concen: 7.376 ng
RT: 19.64 min Scan# 1458
Delta R.T. -0.00 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

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





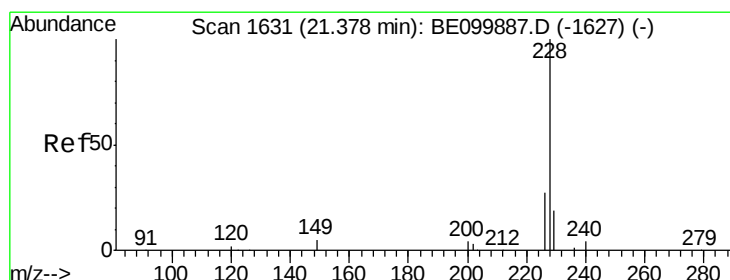
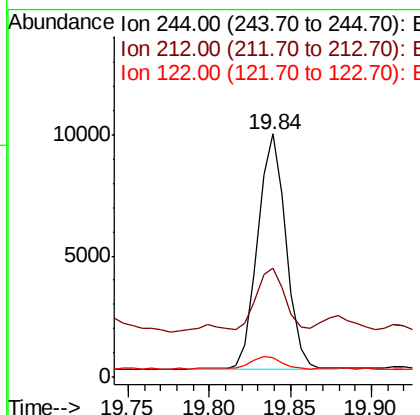
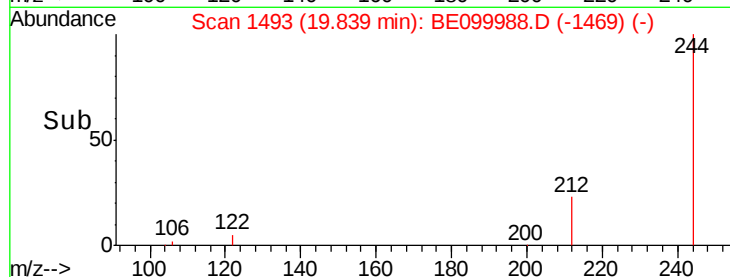
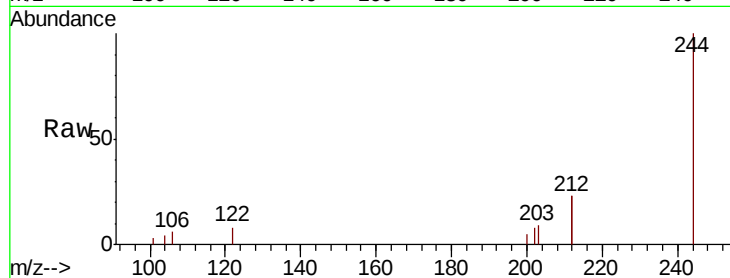
#29
 Terphenyl-d14
 Concen: 0.526 ng
 RT: 19.84 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: BE099888.D
 Acq: 13 Jun 2019 14:08

Instrument :
 BNA_E
 ClientSampled :
 TW-02

Tot Ion: 244 Resp: 11865
 Ion Ratio Lower Upper
 244 100
 212 45.0 25.7 38.5#
 122 8.2 5.5 8.3

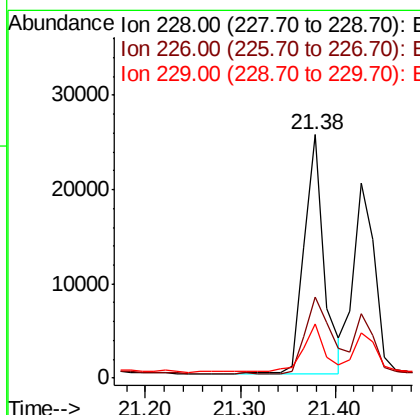
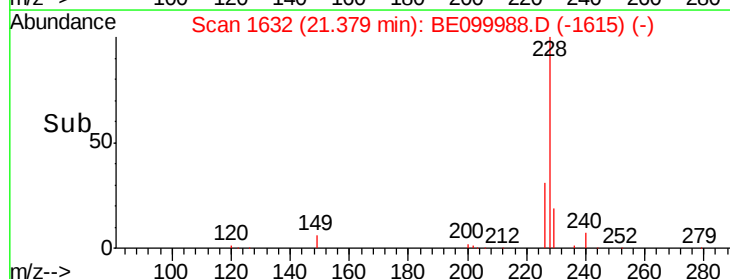
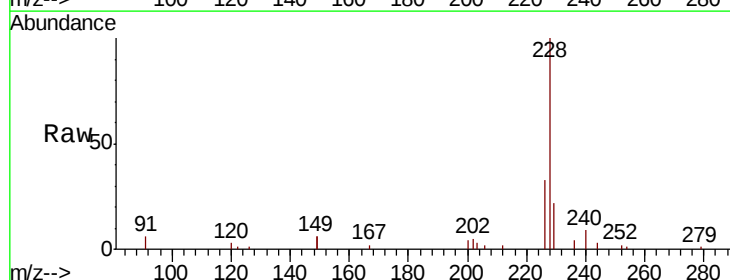
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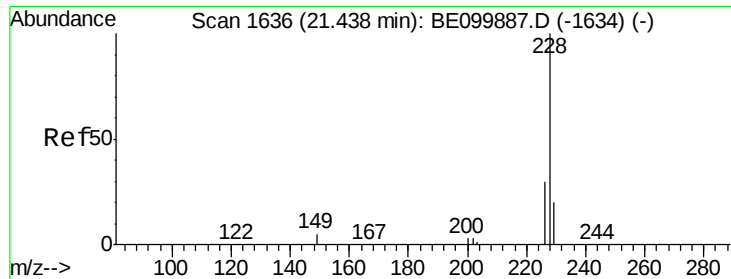
mohammad
 6/14/2019 8:45:41 AM



#30
 Benzo(a)anthracene
 Concen: 0.978 ng
 RT: 21.38 min Scan# 1632
 Delta R.T. 0.00 min
 Lab File: BE099888.D
 Acq: 13 Jun 2019 14:08

Tgt Ion: 228 Resp: 36622
 Ion Ratio Lower Upper
 228 100
 226 33.1 22.5 33.7
 229 22.4 15.9 23.9





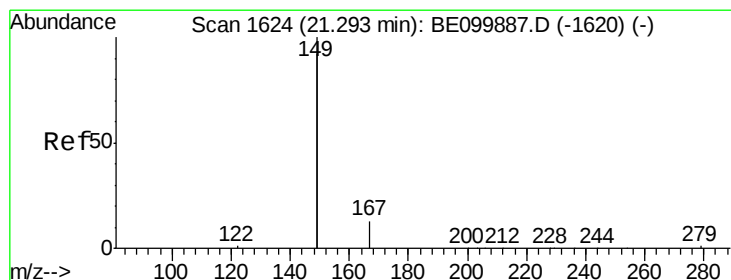
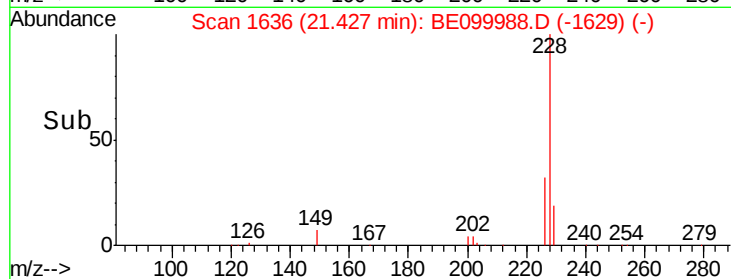
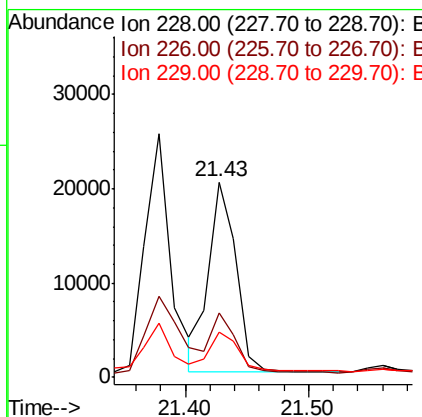
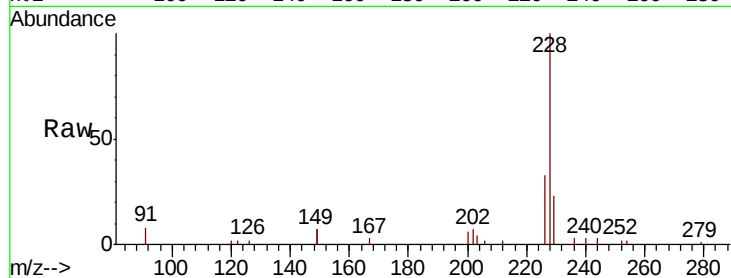
#31
 Chrysene
 Concen: 0.811 ng
 RT: 21.43 min Scan# 1636
 Delta R.T. -0.01 min
 Lab File: BE099888.D
 Acq: 13 Jun 2019 14:08

Instrument :
 BNA_E
 ClientSampleId :
 TW-02

Tot Ion:	228	Resp:	31392
Ion Ratio	Lower	Upper	
228	100		
226	33.2	24.1	36.1
229	23.1	16.1	24.1

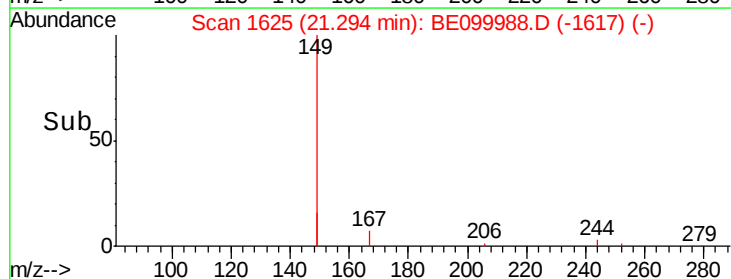
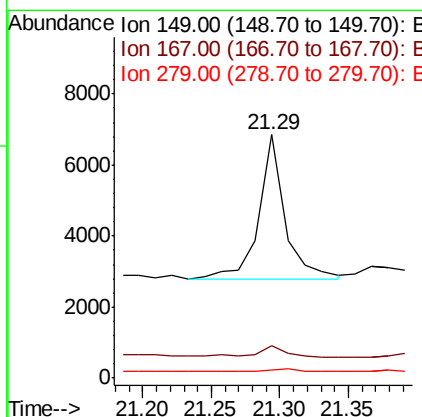
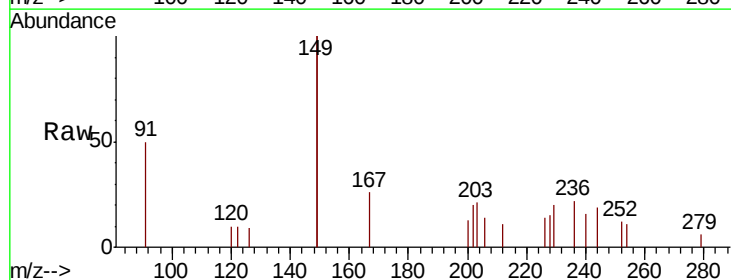
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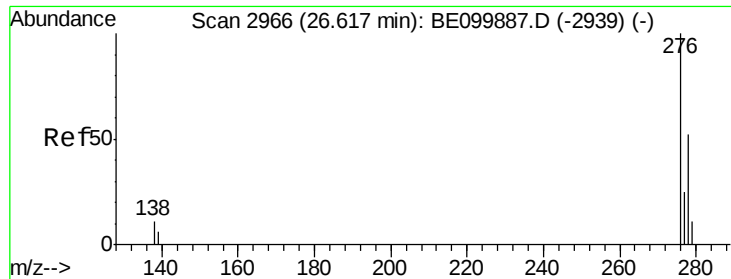
mohammad
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#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.099 ng
 RT: 21.29 min Scan# 1625
 Delta R.T. 0.00 min
 Lab File: BE099888.D
 Acq: 13 Jun 2019 14:08

Tgt Ion:	149	Resp:	5342
Ion Ratio	Lower	Upper	
149	100		
167	10.4	5.9	8.9#
279	2.0	1.2	1.8#





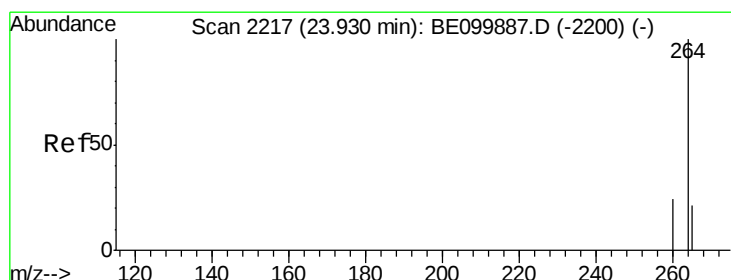
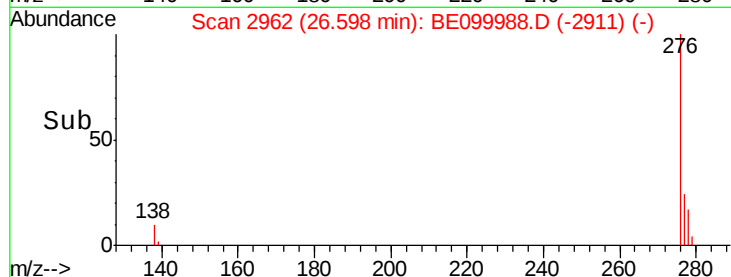
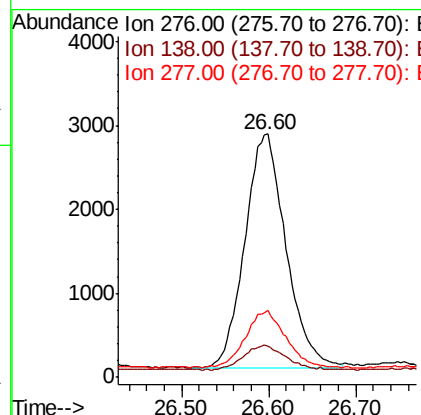
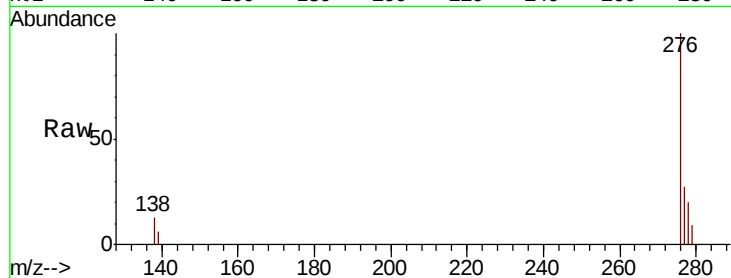
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.199 ng
 RT: 26.60 min Scan# 2962
 Delta R.T. -0.02 min
 Lab File: BE099888.D
 Acq: 13 Jun 2019 14:08

Instrument :
 BNA_E
 ClientSampleId :
 TW-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	10.9	10.1	15.1
277	24.2	19.1	28.7

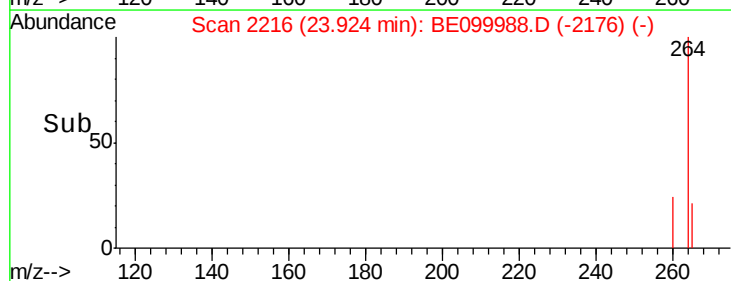
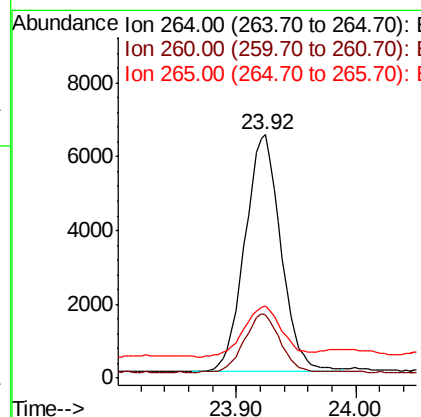
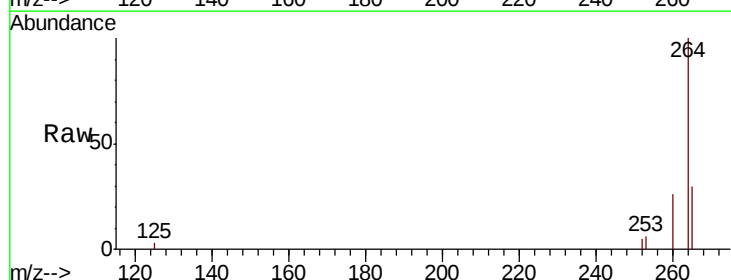
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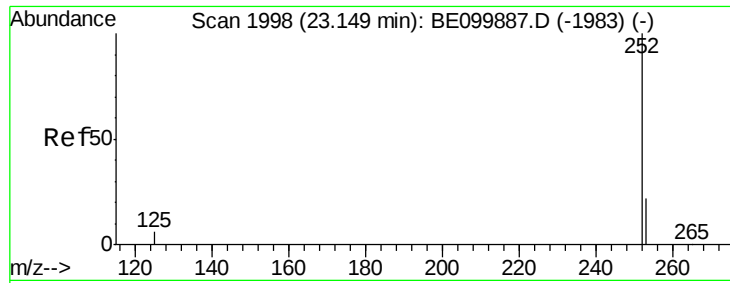
mohammad
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#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.92 min Scan# 2216
 Delta R.T. -0.01 min
 Lab File: BE099888.D
 Acq: 13 Jun 2019 14:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.2	30.2
265	29.5	22.0	33.0





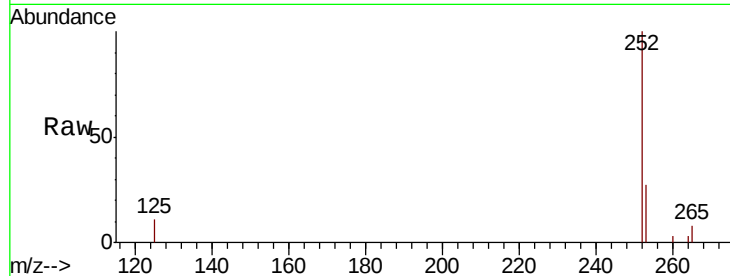
#35
Benzo(b)fluoranthene
Concen: 0.557 ng
RT: 23.15 min Scan# 1998
Delta R.T. -0.00 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampleId :
TW-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.8	18.7	28.1
125	10.7	5.7	8.5#

Manual Integrations
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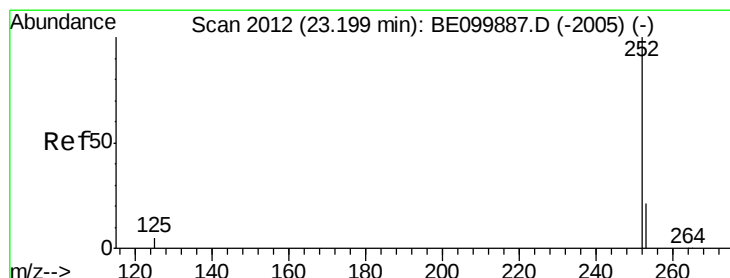
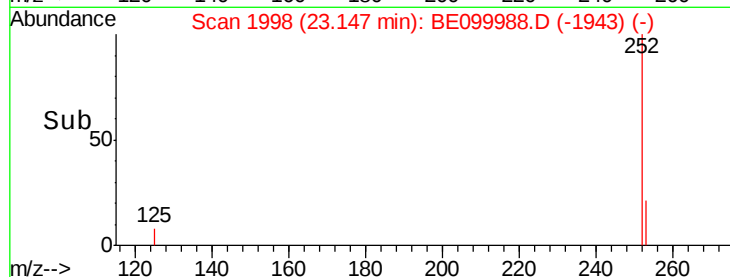
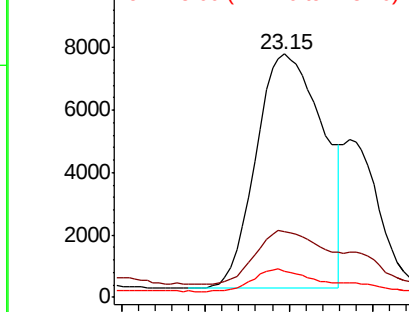


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36
Benzo(k)fluoranthene
Concen: 0.190 ng m
RT: 23.19 min Scan# 2009
Delta R.T. -0.01 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

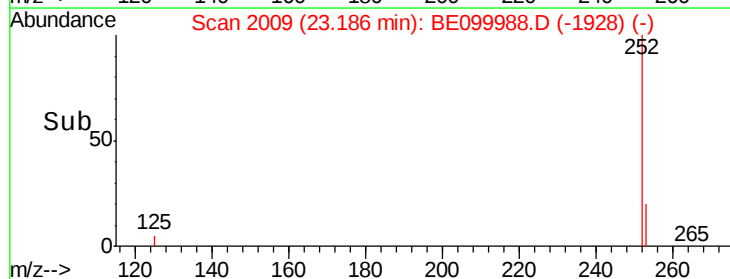
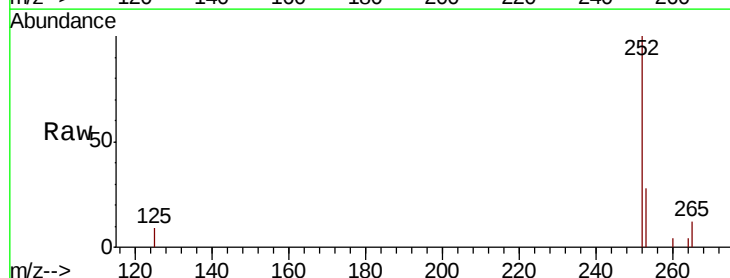
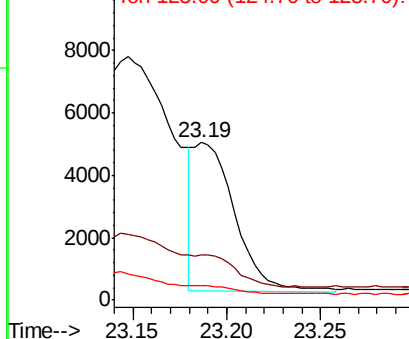
Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.3	18.6	28.0#
125	8.9	5.4	8.0#

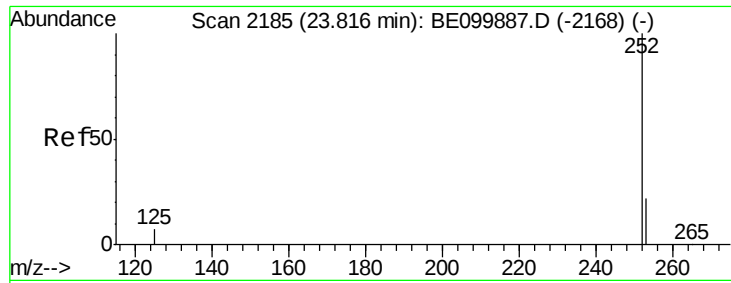
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





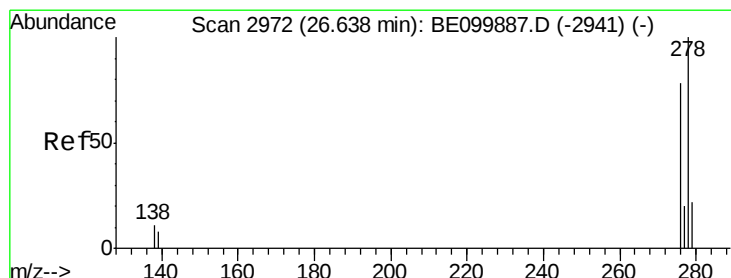
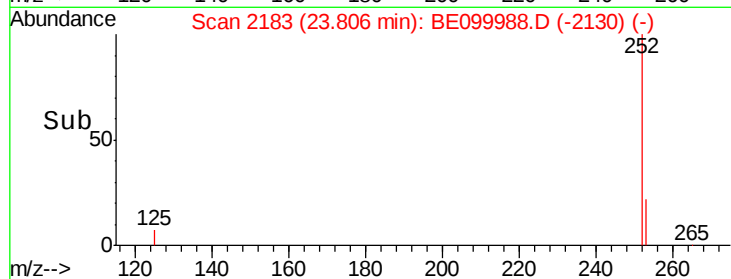
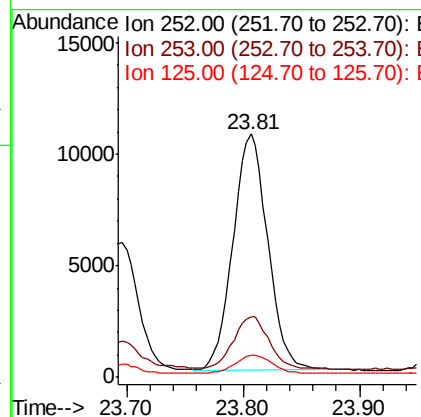
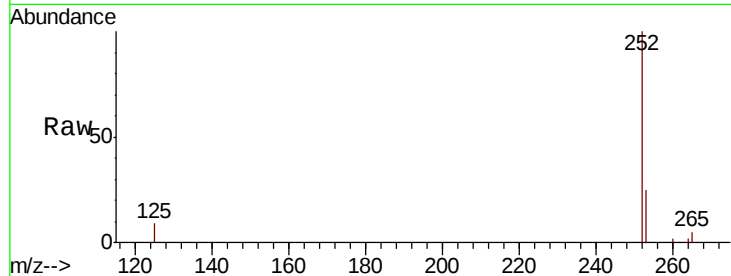
#37
Benzo(a)pyrene
Concen: 0.594 ng
RT: 23.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Instrument :
BNA_E
ClientSampled :
TW-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.6	29.4
125	8.9	6.6	10.0

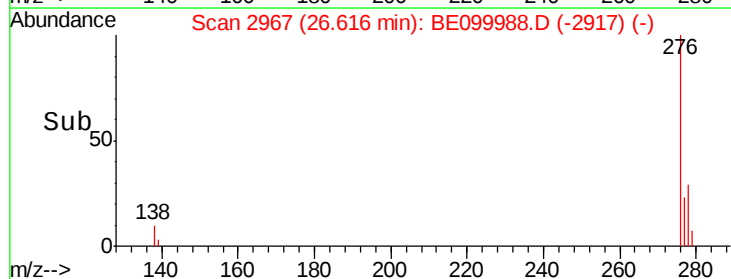
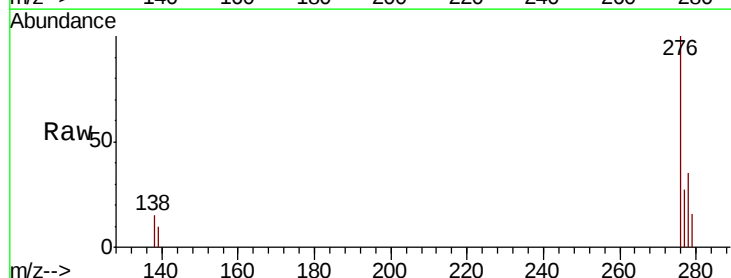
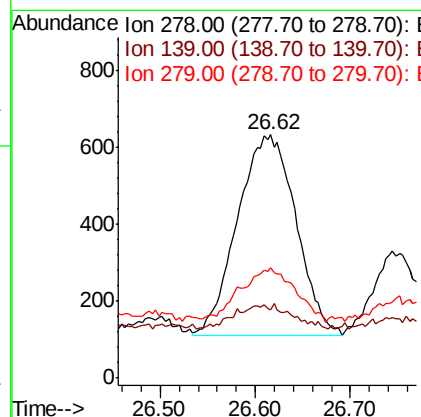
Manual Integrations
APPROVED

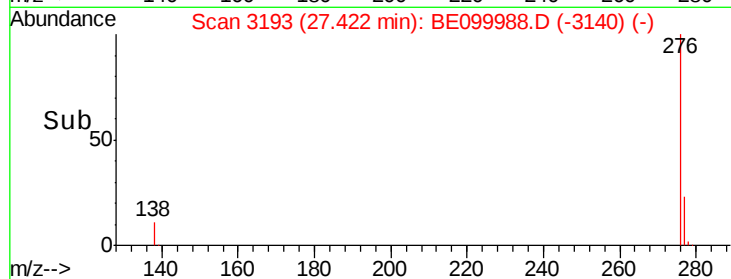
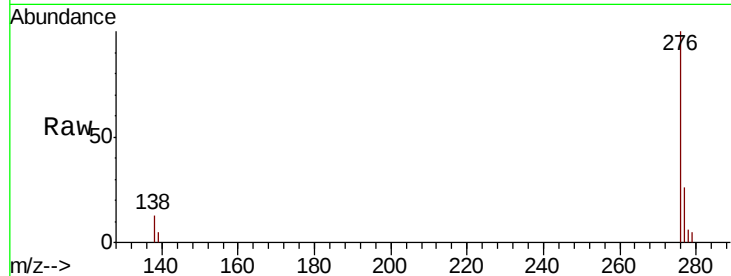
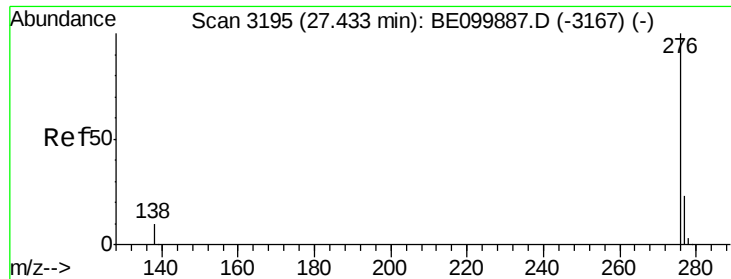
mohammad
6/14/2019 8:45:41 AM



#38
Dibenzo(a,h)anthracene
Concen: 0.060 ng
RT: 26.62 min Scan# 2967
Delta R.T. -0.02 min
Lab File: BE099888.D
Acq: 13 Jun 2019 14:08

Tgt Ion	Ratio	Lower	Upper
278	100		
139	28.1	7.8	11.8#
279	45.3	20.0	30.0#





#39

Benzo(a,h,i)perylene

Concen: 0.250 ng

RT: 27.42 min Scan# 3193

Delta R.T. -0.01 min

Lab File: BE099988.D

Acq: 13 Jun 2019 14:08

Instrument :

BNA_E

ClientSampleId :

TW-02

Tot Ion:	276	Resp:	9630
Ion Ratio	Lower	Upper	
276	100		
277	26.4	19.5	29.3
138	13.5	9.5	14.3

Manual Integrations
APPROVED

mohammad
6/14/2019 8:45:41 AM

