

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
 Data File : BE100220.D
 Acq On : 28 Jun 2019 00:30
 Operator : JU/SJ
 Sample : K3428-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW165-061319

Manual Integrations
 APPROVED

mohammad
 7/1/2019 8:12:31 AM

Quant Time: Jun 28 06:37:44 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062519.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 05:41:07 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.64	152	982	0.40	ng	-0.01
7) Naphthalene-d8	10.45	136	3389	0.40	ng	0.00
13) Acenaphthene-d10	14.33	164	2599	0.40	ng	0.00
19) Phenanthrene-d10	17.07	188	7205	0.40	ng	0.00
27) Chrysene-d12	21.24	240	9857	0.40	ng	0.00
34) Perylene-d12	23.67	264	10995	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.22	112	898	0.41	ng	0.00
5) Phenol-d6	6.83	99	1288	0.43	ng	-0.02
8) Nitrobenzene-d5	8.82	82	1267	0.38	ng	-0.01
11) 2-Methylnaphthalene-d10	12.05	152	2519	0.40	ng	-0.02
14) 2,4,6-Tribromophenol	15.82	330	671	0.45	ng	-0.01
15) 2-Fluorobiphenyl	12.94	172	3722	0.36	ng	-0.02
25) Fluoranthene-d10	19.10	212	37541	0.36	ng	0.00
29) Terphenyl-d14	19.70	244	6912	0.36	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.50	128	9662	0.261	ng	98
12) 2-Methylnaphthalene	12.12	142	1905	0.320	ng	97
16) Acenaphthylene	14.04	152	12325	0.973	ng	99
17) Acenaphthene	14.38	154	1175	0.165	ng	95
18) Fluorene	15.37	166	4746	0.462	ng	# 90
23) Phenanthrene	17.11	178	97912	5.737	ng	99
24) Anthracene	17.20	178	10454	0.725	ng	99
26) Fluoranthene	19.13	202	162655	5.858	ng	99
28) Pyrene	19.49	202	209760	8.310	ng	97
30) Benzo(a)anthracene	21.23	228	114193	3.930	ng	95
31) Chrysene	21.28	228	119614	3.509	ng	97
32) Bis(2-ethylhexyl)phthalate	21.16	149	9657	0.289	ng	99
33) Indeno(1,2,3-cd)pyrene	26.23	276	61473	1.267	ng	# 95
35) Benzo(b)fluoranthene	22.93	252	116508	3.940	ng	# 98
36) Benzo(k)fluoranthene	22.97	252	33462m	0.946	ng	
37) Benzo(a)pyrene	23.56	252	89740m	2.929	ng	
38) Dibenzo(a,h)anthracene	26.25	278	16977	0.518	ng	# 89
39) Benzo(a,h,i)perylene	27.02	276	68816	2.011	ng	# 97

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

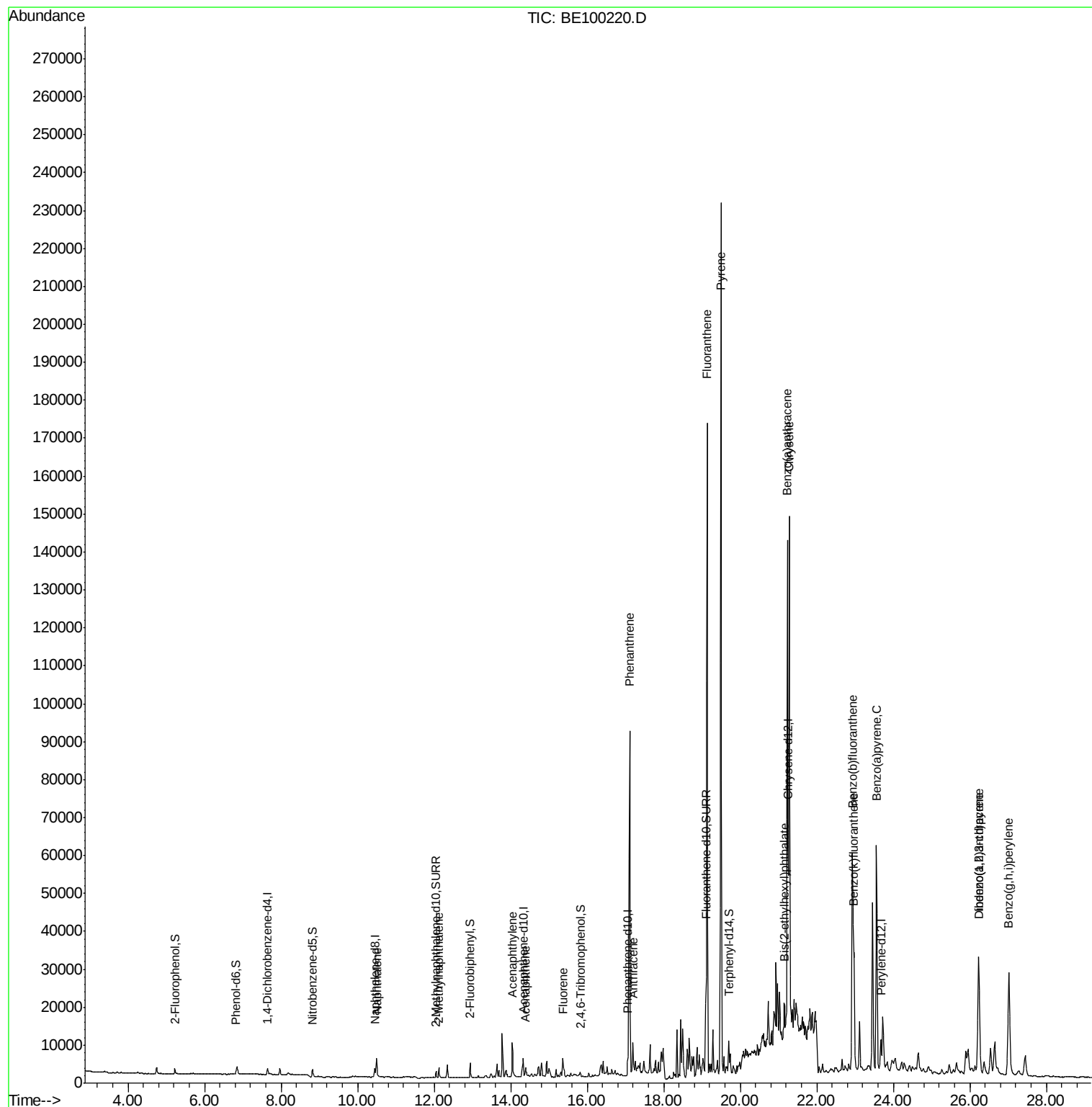
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
Data File : BE100220.D
Acq On : 28 Jun 2019 00:30
Operator : JU/SJ
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ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 28 05:41:07 2019
Response via : Initial Calibration





#1

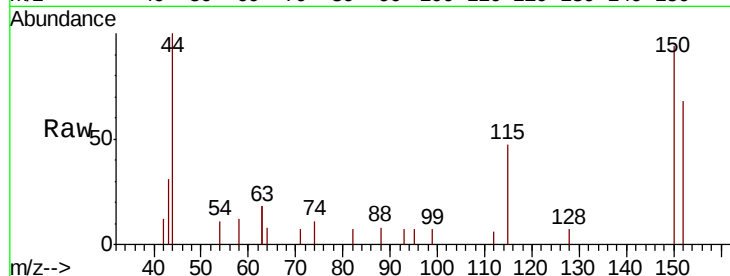
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.64 min Scan# 415
Delta R.T. -0.01 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
152	100		
150	137.9	113.4	170.2
115	69.7	55.8	83.6

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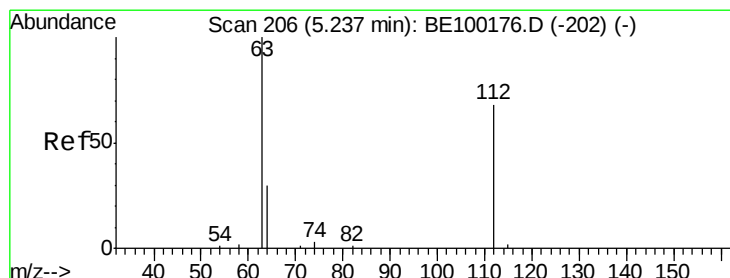
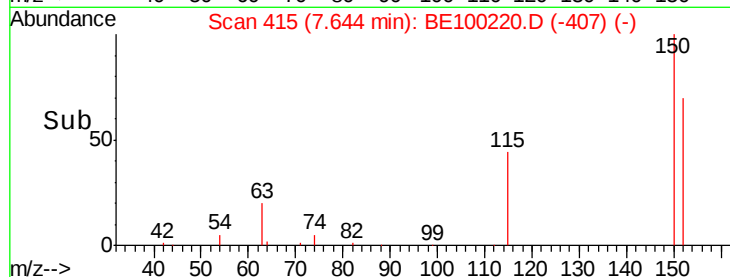
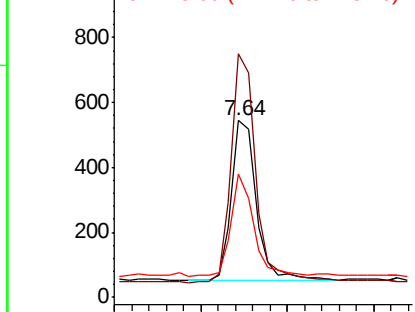


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

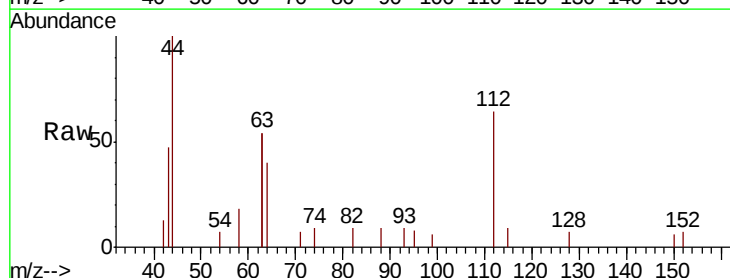
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.411 ng
RT: 5.22 min Scan# 205
Delta R.T. 0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	40.7	61.1
63	137.9	93.2	139.8

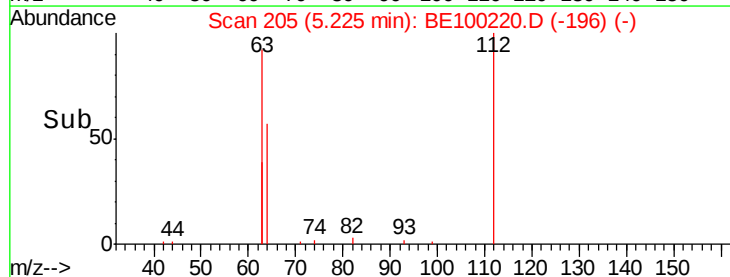
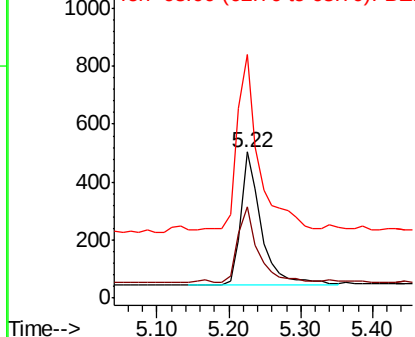


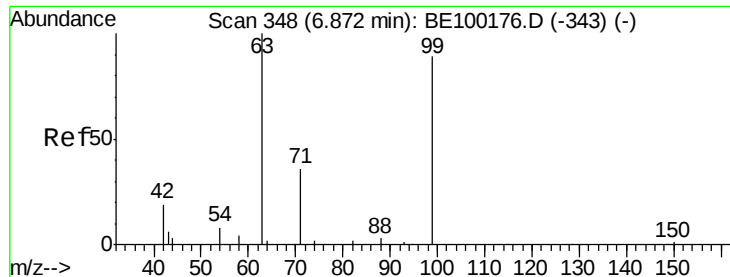
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.429 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.02 min

Lab File: BE100220.D

Acq: 28 Jun 2019 00:30

Instrument :

BNA_E

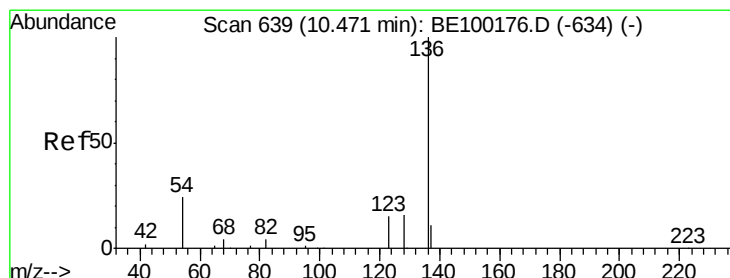
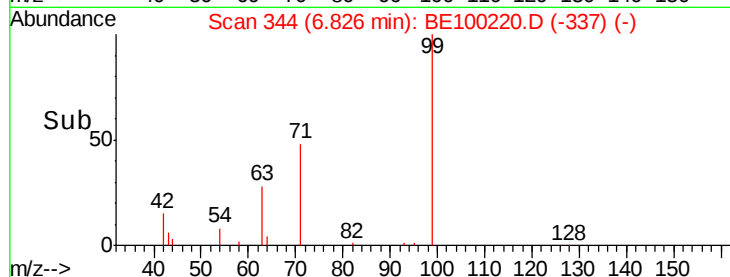
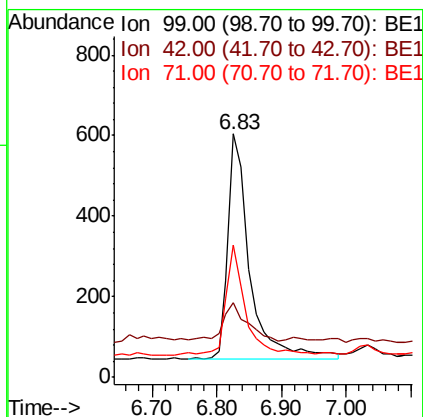
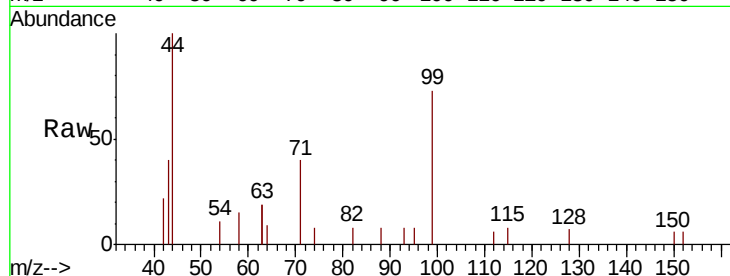
ClientSampleId :

EXT-013-SW165-061319

Tot Ion:	99	Resp:	1288
Ion	Ratio	Lower	Upper
99	100		
42	18.9	10.4	15.6#
71	42.4	32.4	48.6

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#7

Naphthalene-d8

Concen: 0.400 ng

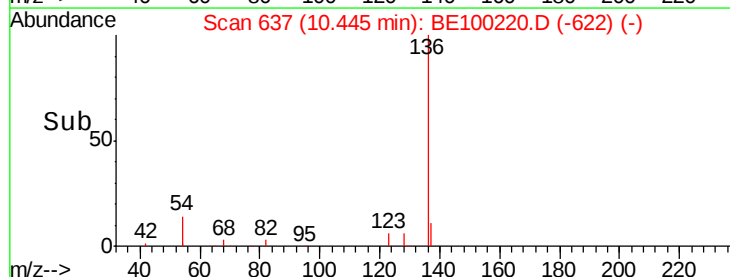
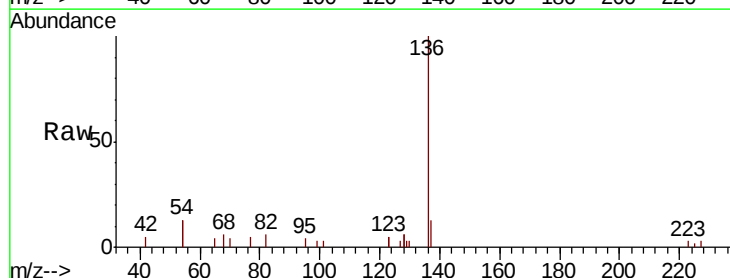
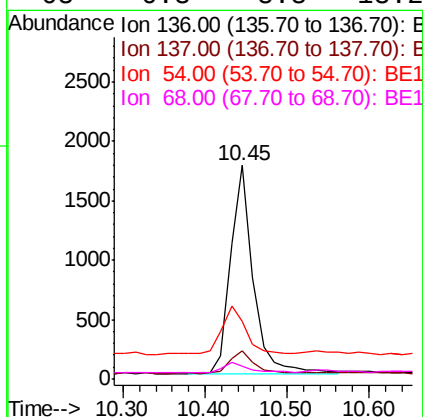
RT: 10.45 min Scan# 637

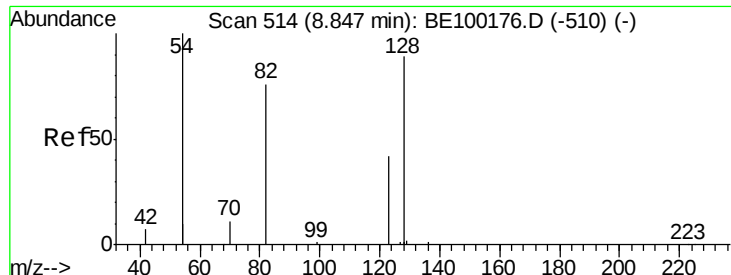
Delta R.T. 0.00 min

Lab File: BE100220.D

Acq: 28 Jun 2019 00:30

Tgt Ion:	136	Resp:	3389
Ion	Ratio	Lower	Upper
136	100		
137	13.0	13.8	20.8#
54	26.7	35.4	53.2#
68	6.3	8.8	13.2#





#8

Nitrobenzene-d5

Concen: 0.376 ng

RT: 8.82 min Scan# 512

Delta R.T. -0.01 min

Lab File: BE100220.D

Acq: 28 Jun 2019 00:30

Instrument :

BNA_E

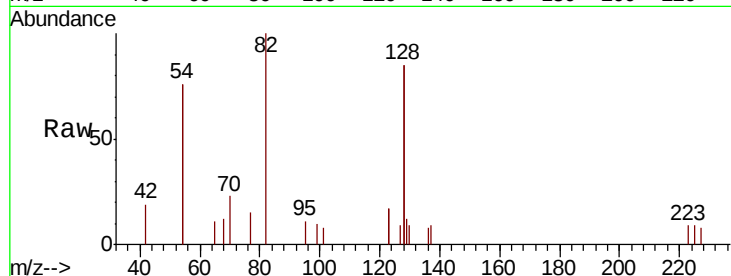
ClientSampleId :

EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
82	100		
128	169.0	144.6	217.0
54	151.4	163.0	244.6

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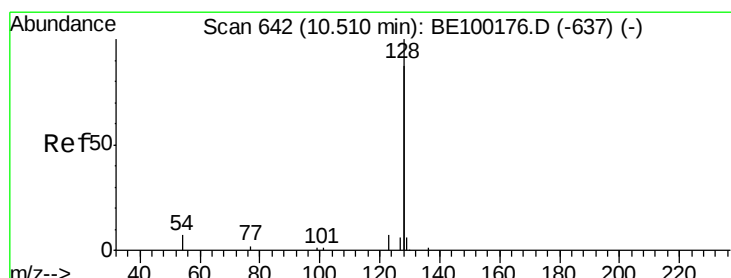
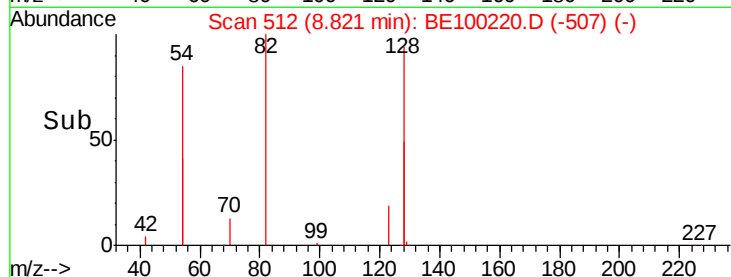
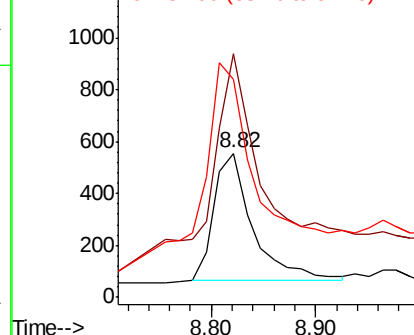


Abundance

Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.261 ng

RT: 10.50 min Scan# 641

Delta R.T. 0.00 min

Lab File: BE100220.D

Acq: 28 Jun 2019 00:30

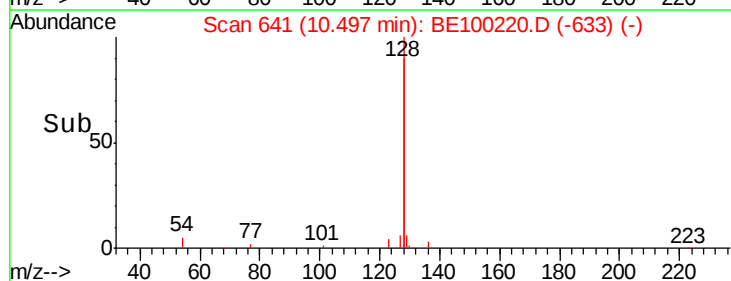
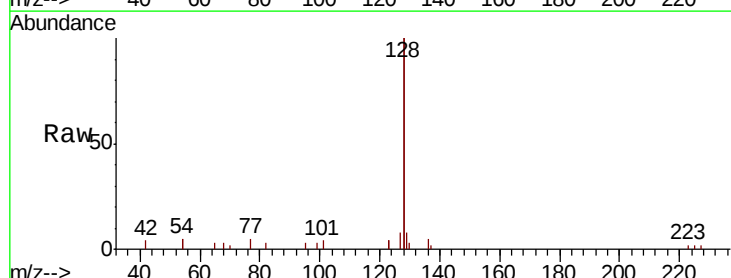
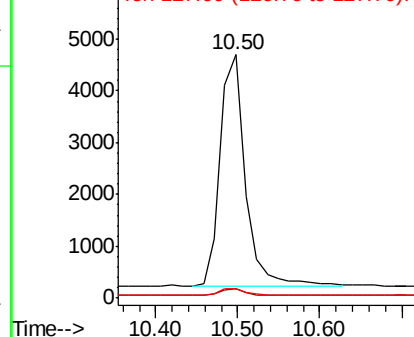
Tgt Ion	Ratio	Lower	Upper
128	100		
129	4.0	3.6	5.4
127	4.1	3.8	5.8

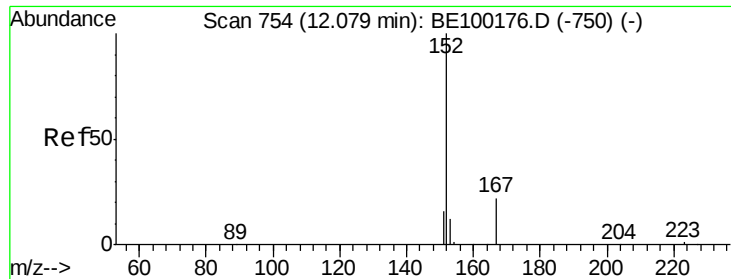
Abundance

Ion 128.00 (127.70 to 128.70): BE1

Ion 129.00 (128.70 to 129.70): BE1

Ion 127.00 (126.70 to 127.70): BE1





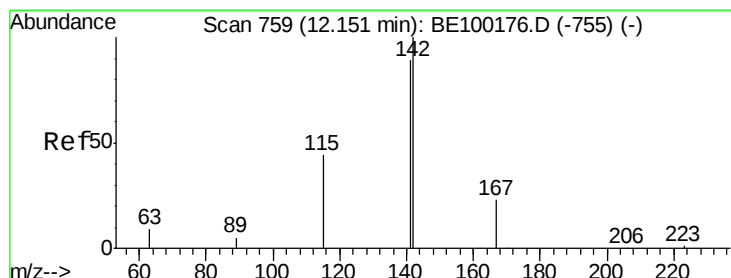
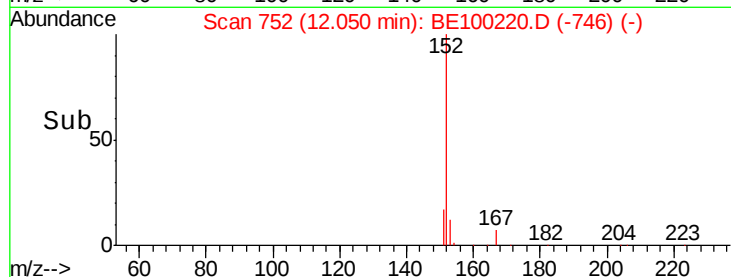
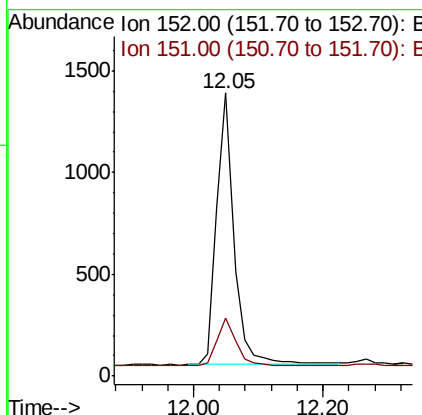
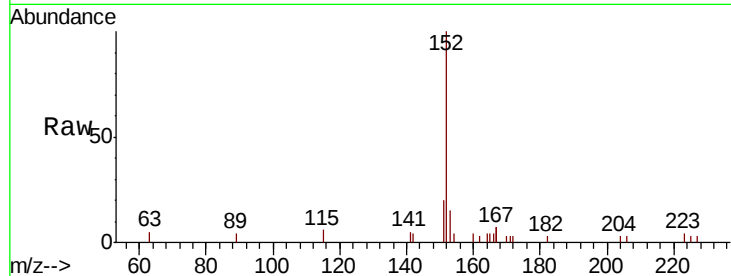
#11
2-Methylnaphthalene-d10
Concen: 0.396 ng
RT: 12.05 min Scan# 752
Delta R.T. -0.02 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.0	16.3	24.5

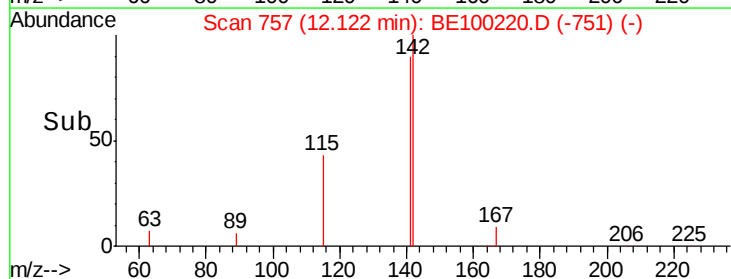
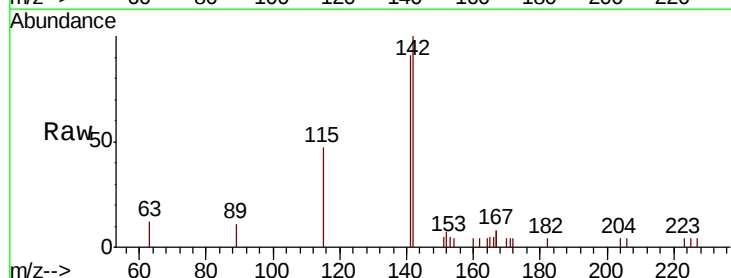
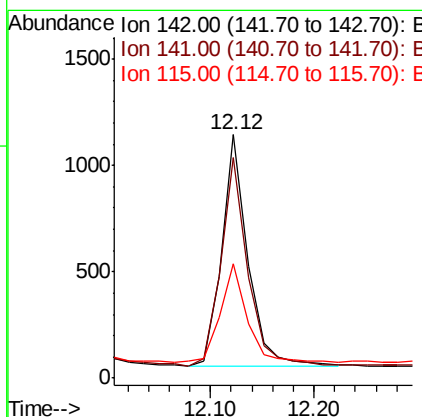
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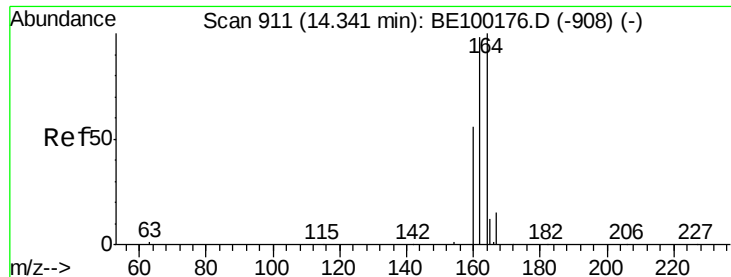
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#12
2-Methylnaphthalene
Concen: 0.320 ng
RT: 12.12 min Scan# 757
Delta R.T. -0.02 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.8	107.8
115	46.9	40.4	60.6





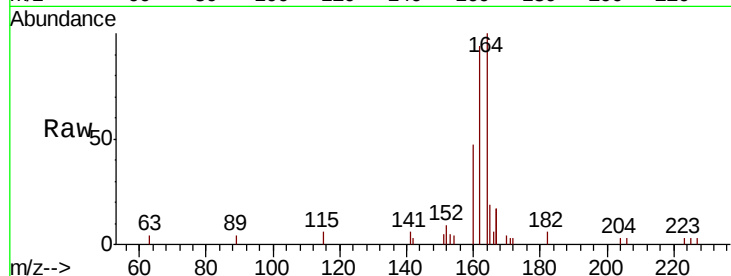
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.33 min Scan# 910
Delta R.T. -0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
164	100		
162	94.2	78.6	118.0
160	47.1	46.9	70.3

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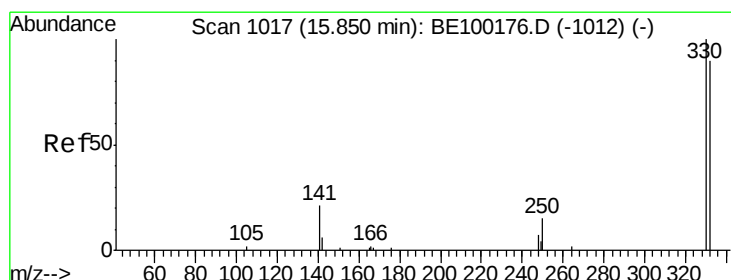
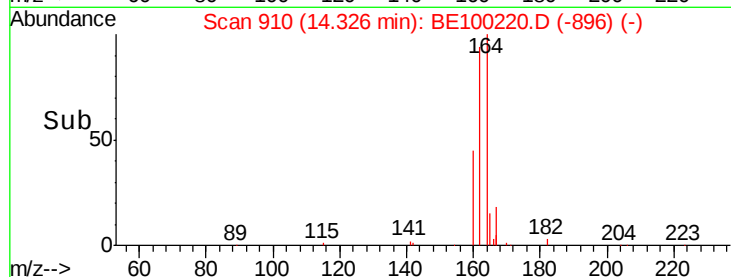
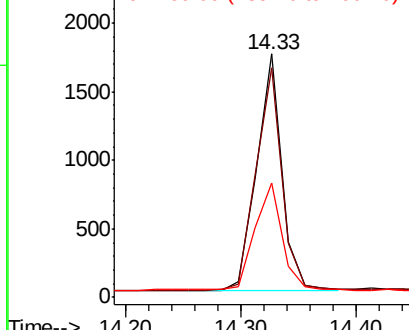


Abundance

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: 0.446 ng
RT: 15.82 min Scan# 1015
Delta R.T. -0.01 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

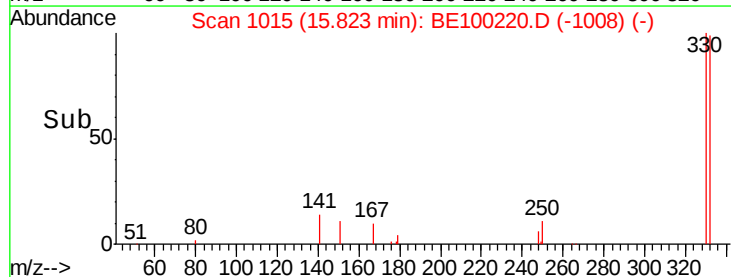
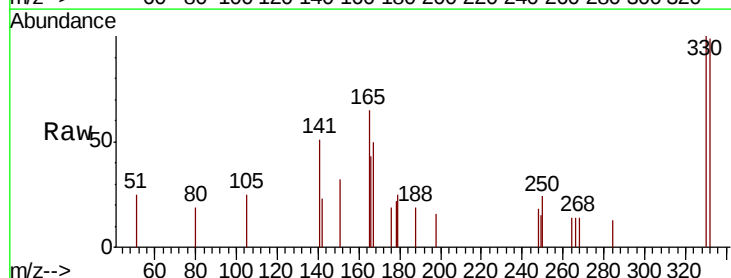
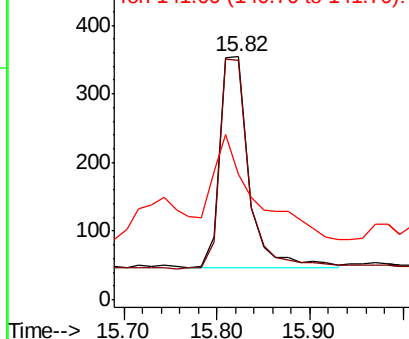
Tgt Ion	Ratio	Lower	Upper
330	100		
332	103.7	77.7	116.5
141	70.3	18.9	28.3#

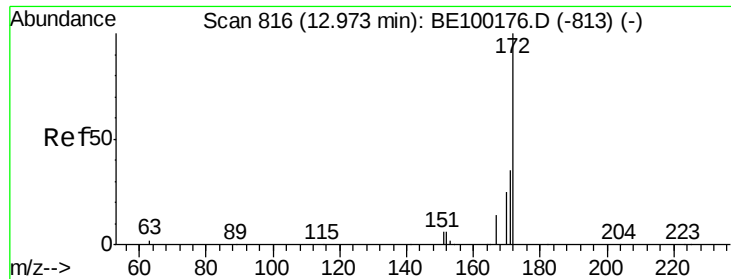
Abundance

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





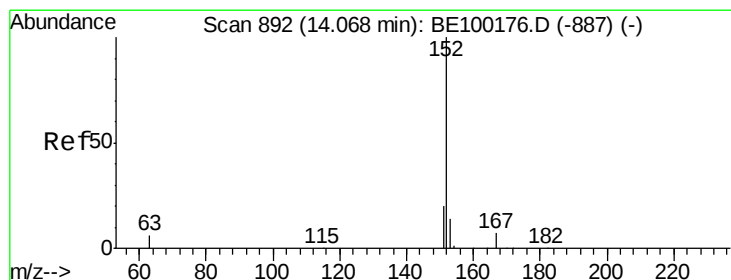
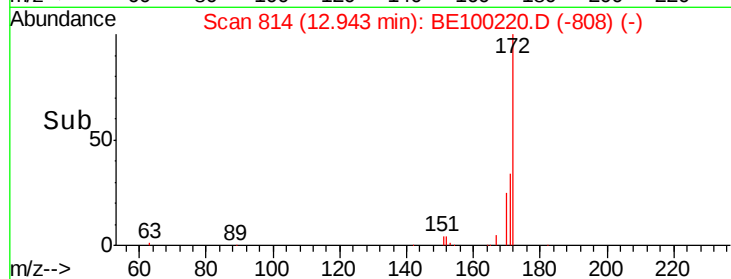
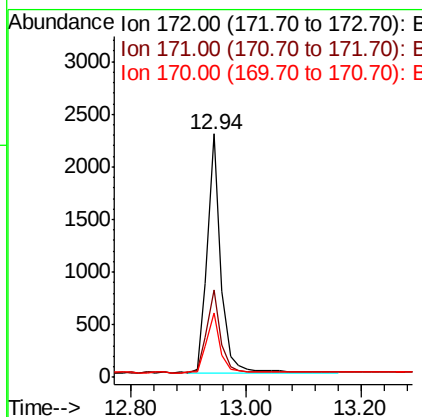
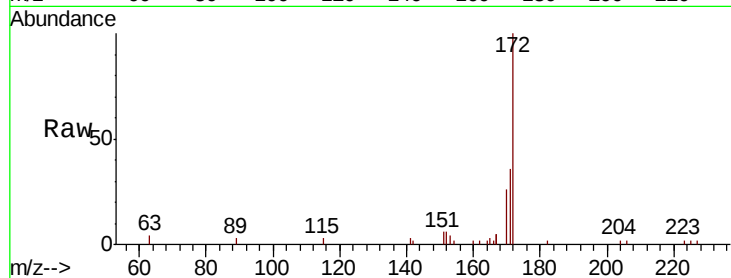
#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.94 min Scan# 814
Delta R.T. -0.02 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	31.0	46.4
170	26.5	23.9	35.9

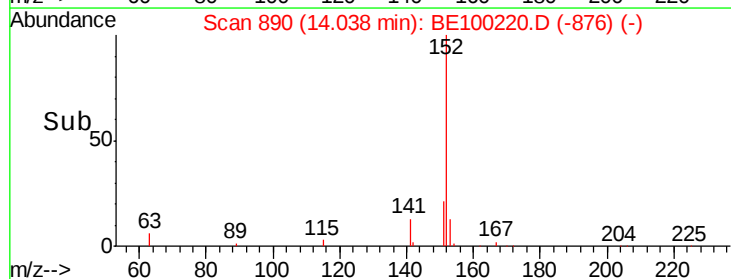
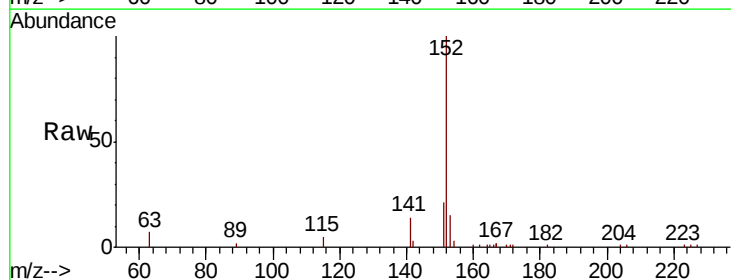
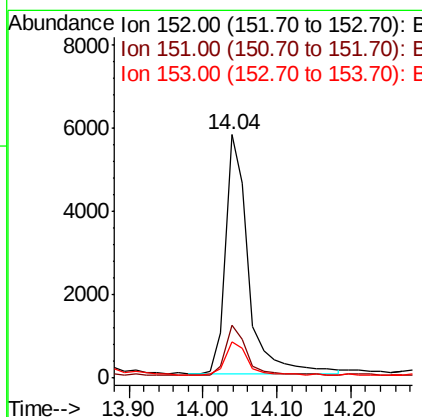
Manual Integrations
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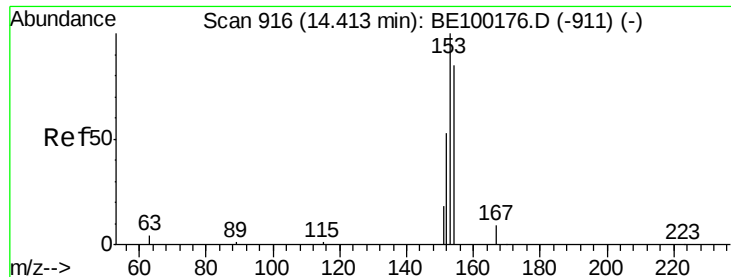
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#16
Acenaphthylene
Concen: 0.973 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.4	23.0
153	13.4	10.8	16.2





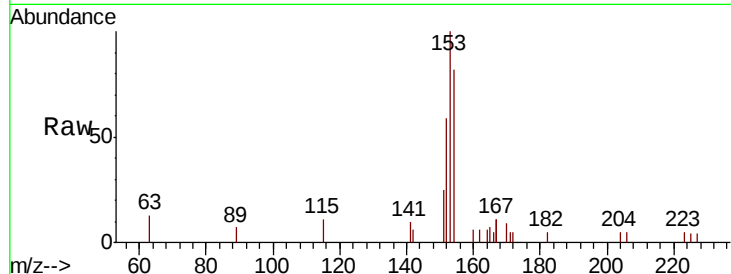
#17
Acenaphthene
Concen: 0.165 ng
RT: 14.38 min Scan# 914
Delta R.T. -0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
154	100		
153	123.7	95.3	142.9
152	70.6	52.9	79.3

Manual Integrations
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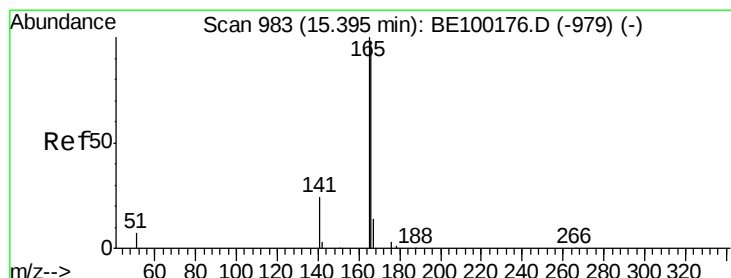
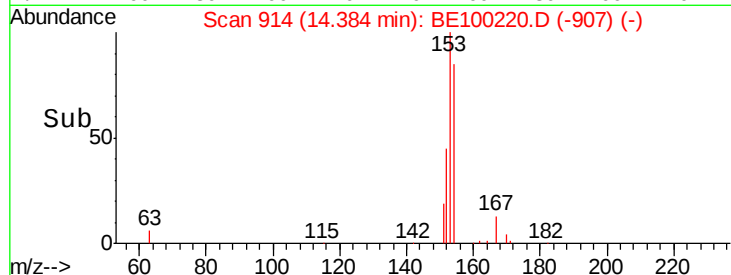
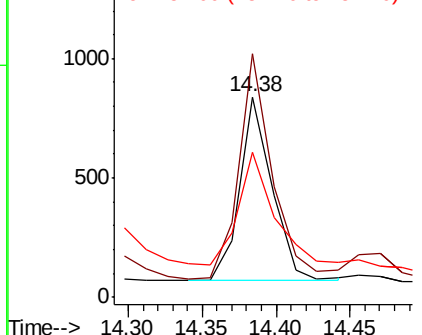


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 0.462 ng
RT: 15.37 min Scan# 981
Delta R.T. 0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

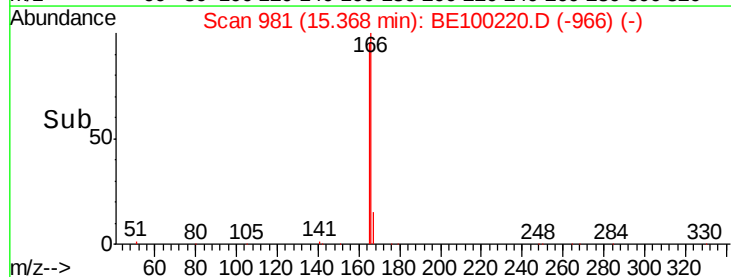
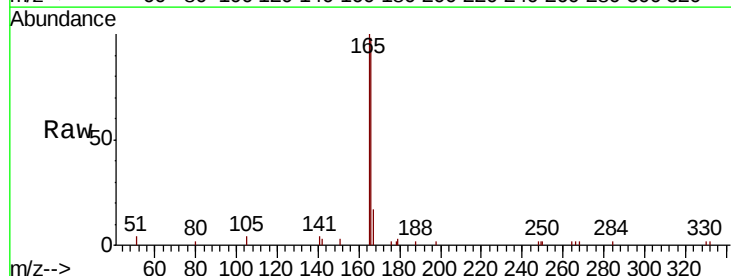
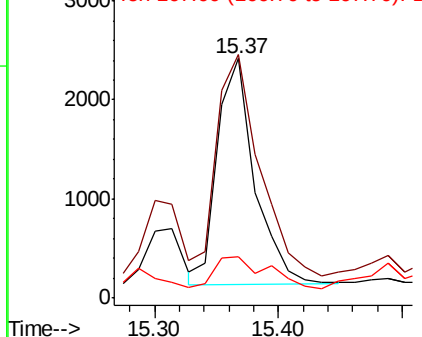
Tgt Ion	Ratio	Lower	Upper
166	100		
165	111.3	81.0	121.4
167	19.9	11.4	17.0

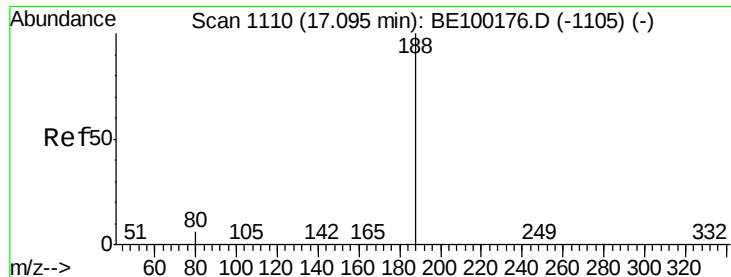
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





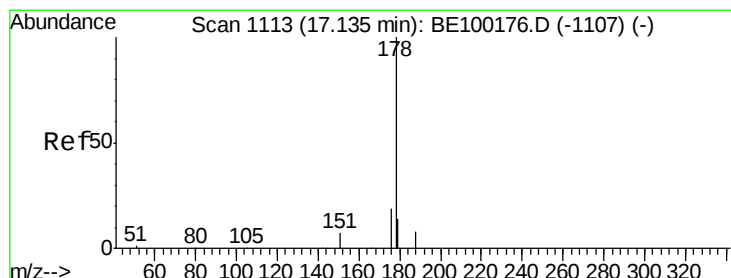
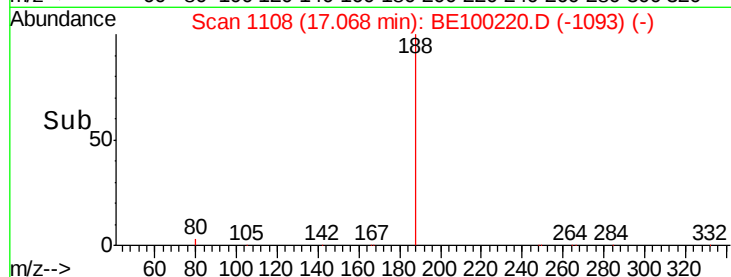
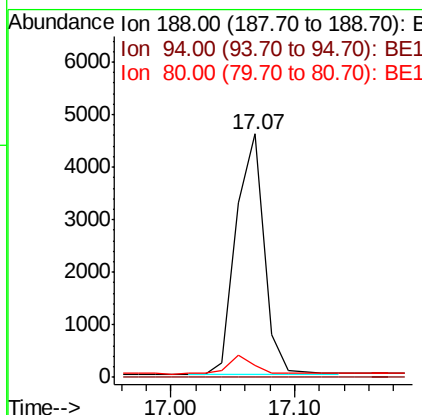
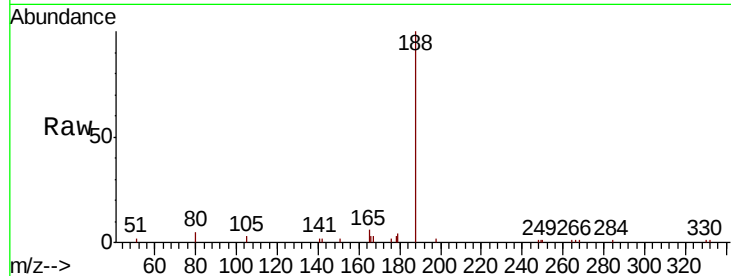
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.07 min Scan# 1108
Delta R.T. 0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	4.9	6.4	9.6

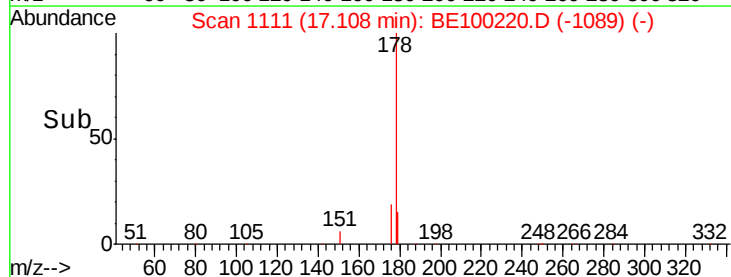
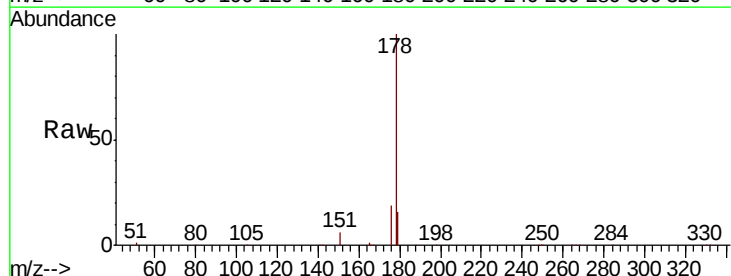
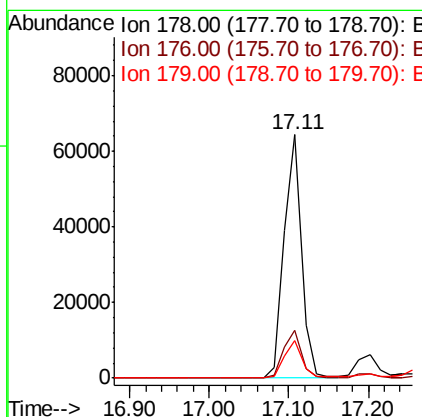
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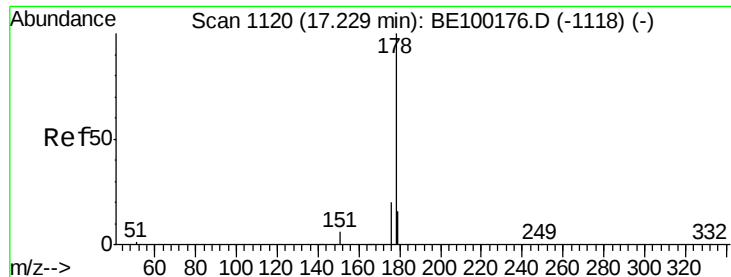
mohammad
7/1/2019 8:12:31 AM



#23
Phenanthrene
Concen: 5.737 ng
RT: 17.11 min Scan# 1111
Delta R.T. 0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.7	15.5	23.3
179	15.5	12.2	18.2





#24

Anthracene

Concen: 0.725 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.00 min

Lab File: BE100220.D

Acq: 28 Jun 2019 00:30

Instrument :

BNA_E

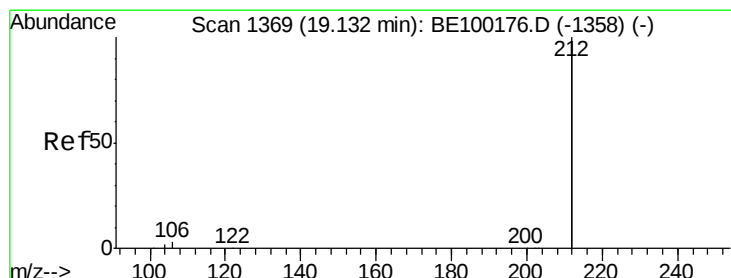
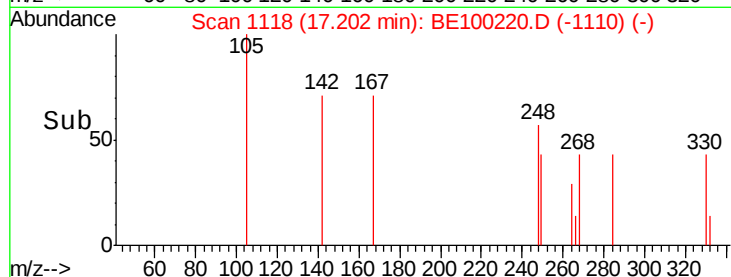
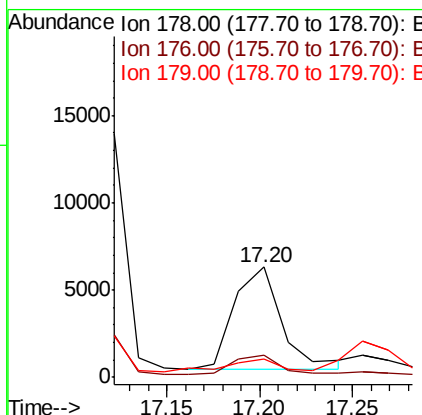
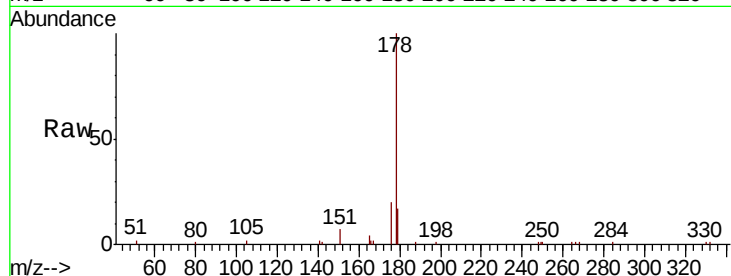
ClientSampleId :

EXT-013-SW165-061319

Tot Ion:	178	Resp:	10454
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.7	23.5
179	15.1	12.9	19.3

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#25

Fluoranthene-d10

Concen: 0.362 ng

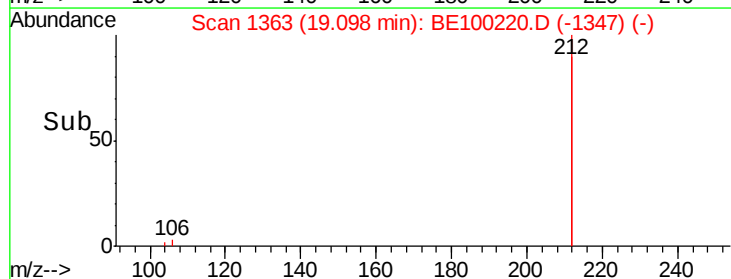
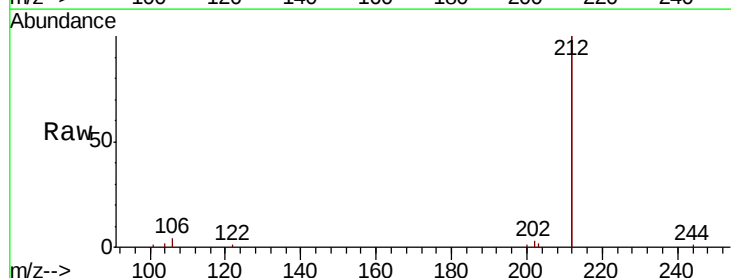
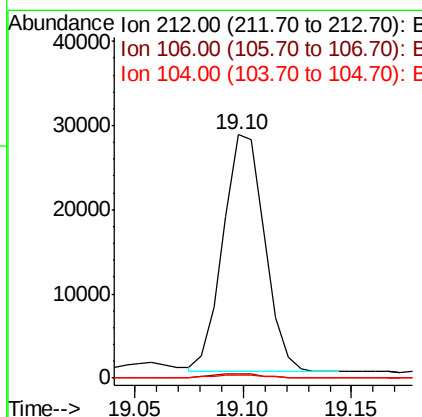
RT: 19.10 min Scan# 1363

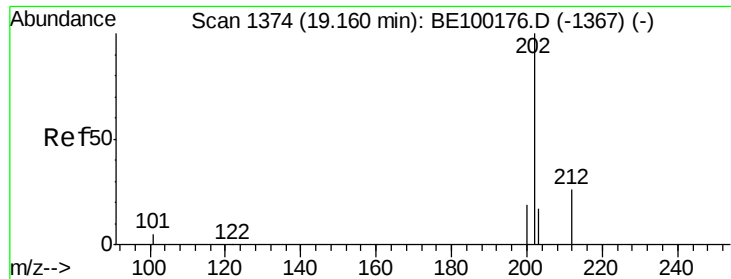
Delta R.T. -0.01 min

Lab File: BE100220.D

Acq: 28 Jun 2019 00:30

Tgt Ion:	212	Resp:	37541
Ion Ratio	Lower	Upper	
212	100		
106	1.6	1.3	1.9
104	0.9	0.7	1.1





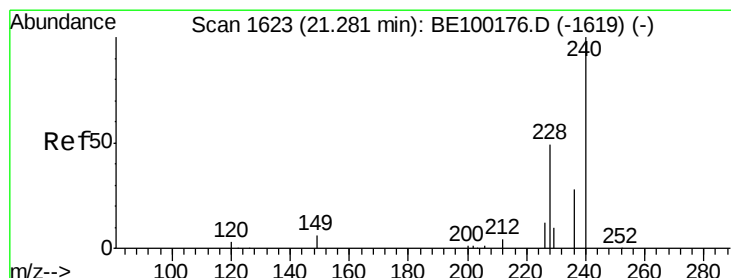
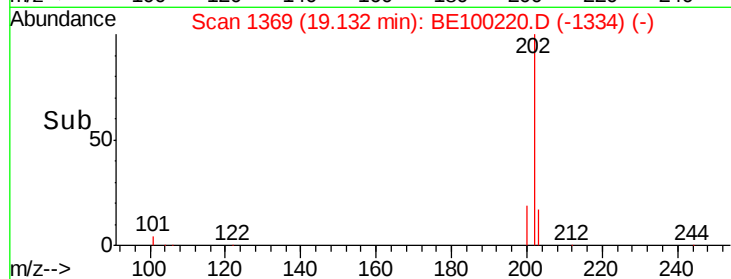
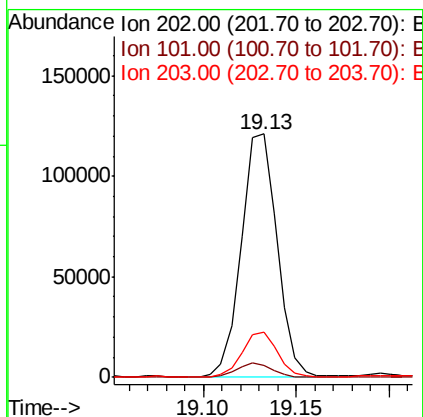
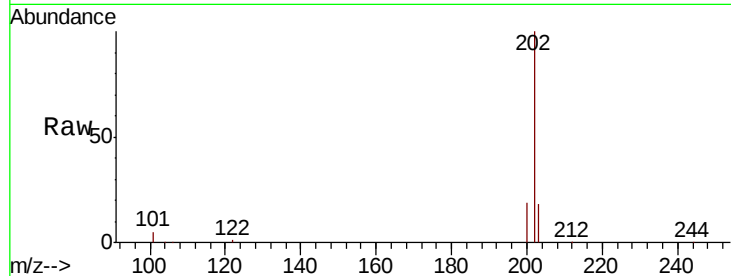
#26
Fluoranthene
 Concen: 5.858 ng
 RT: 19.13 min Scan# 1369
 Delta R.T. -0.00 min
 Lab File: BE100220.D
 Acq: 28 Jun 2019 00:30

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.6	4.5	6.7
203	17.9	13.7	20.5

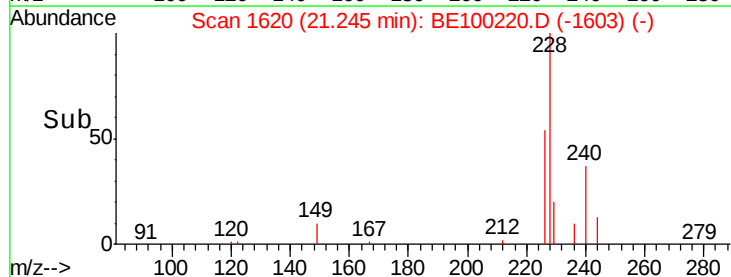
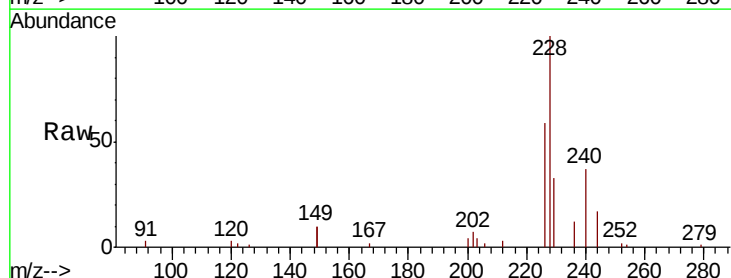
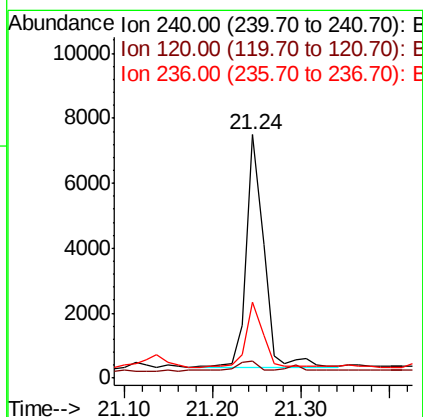
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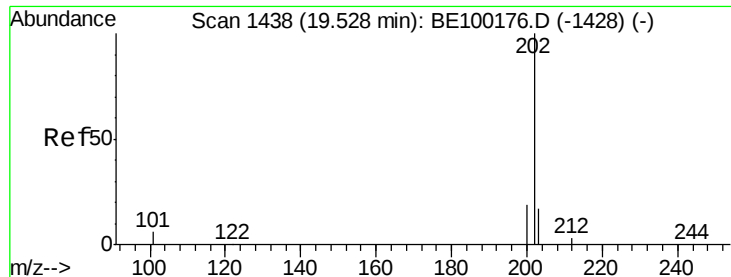
mohammad
 7/1/2019 8:12:31 AM



#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.24 min Scan# 1620
 Delta R.T. -0.00 min
 Lab File: BE100220.D
 Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
240	100		
120	6.8	4.1	6.1#
236	31.0	23.0	34.6





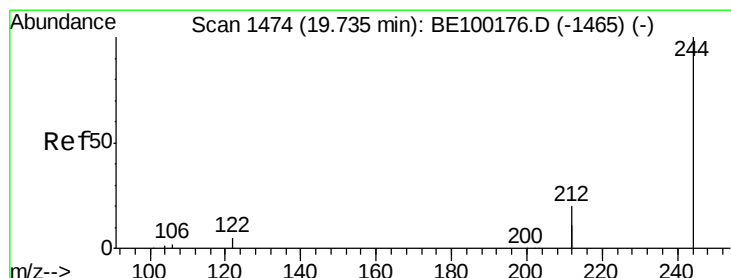
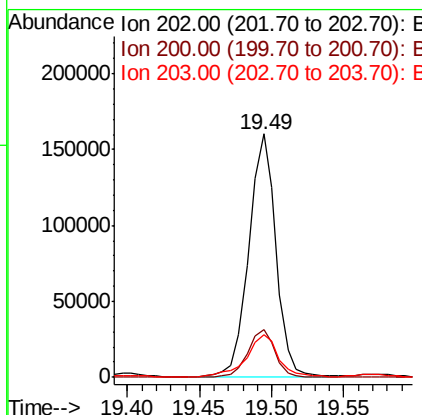
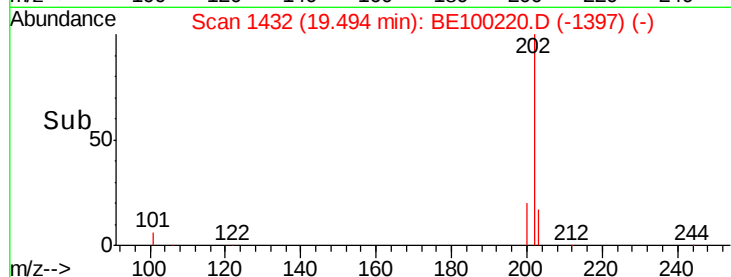
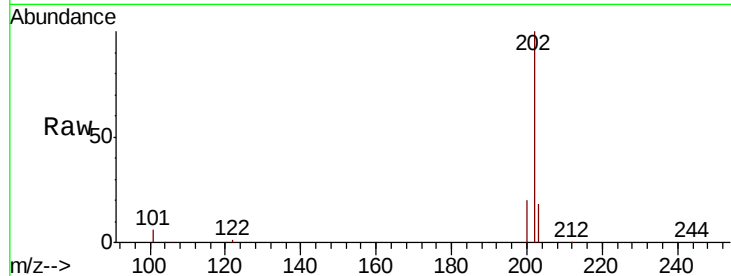
#28
Pvrene
Concen: 8.310 ng
RT: 19.49 min Scan# 1432
Delta R.T. -0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.7	15.5	23.3
203	20.3	13.9	20.9

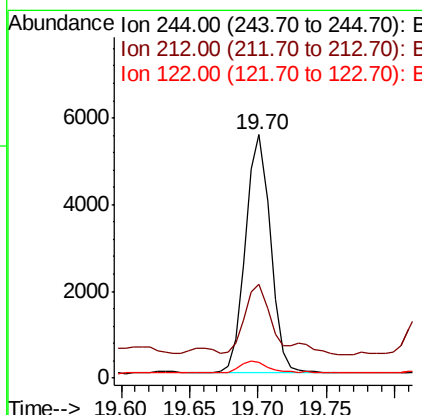
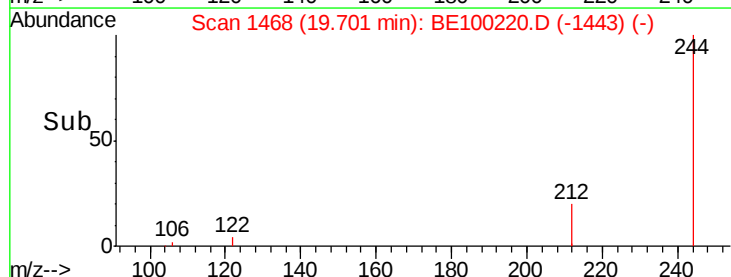
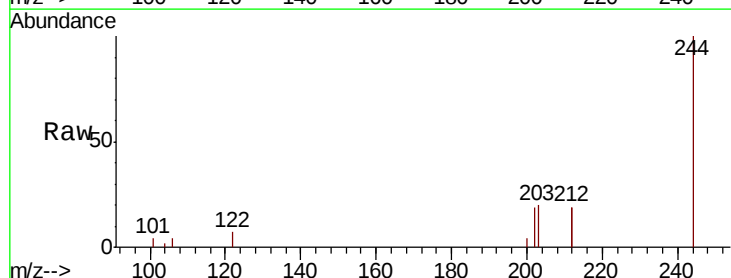
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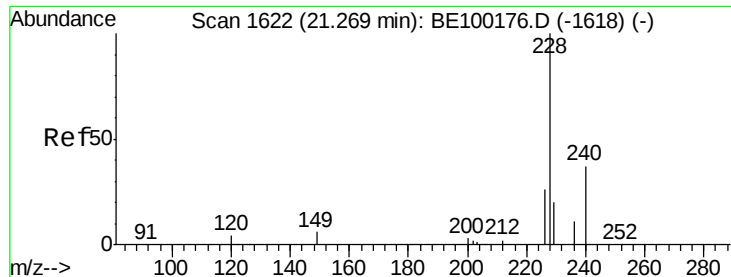
mohammad
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#29
Terphenyl-d14
Concen: 0.357 ng
RT: 19.70 min Scan# 1468
Delta R.T. -0.01 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
244	100		
212	38.5	30.7	46.1
122	6.6	5.8	8.6





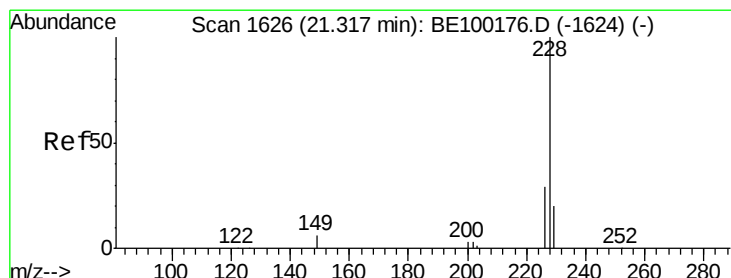
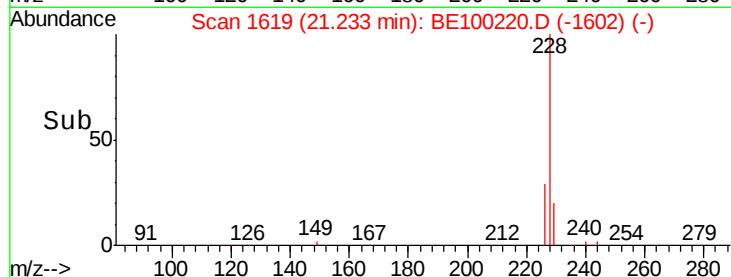
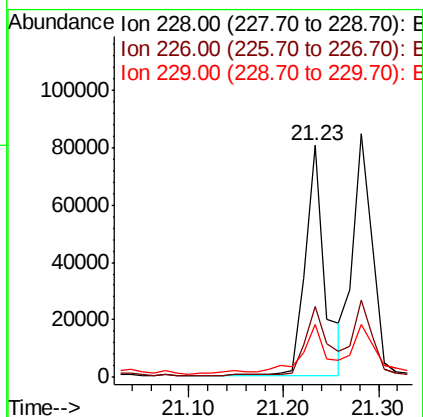
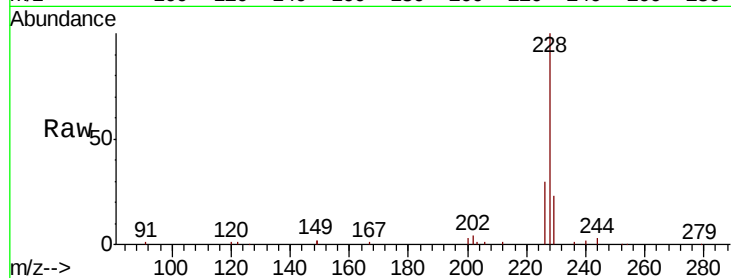
#30
Benzo(a)anthracene
Concen: 3.930 ng
RT: 21.23 min Scan# 1619
Delta R.T. -0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	21.5	32.3
229	22.9	17.2	25.8

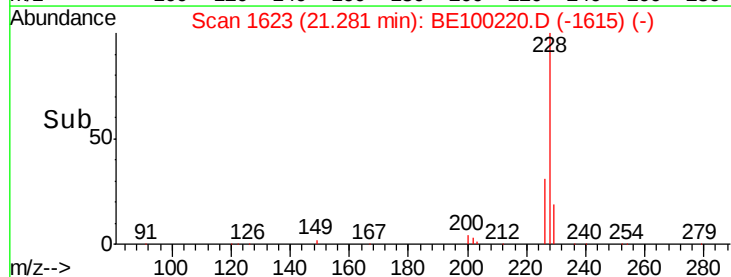
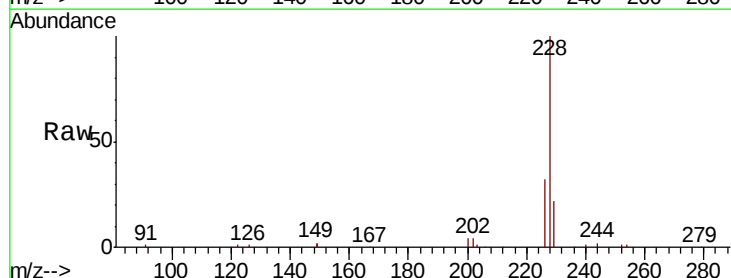
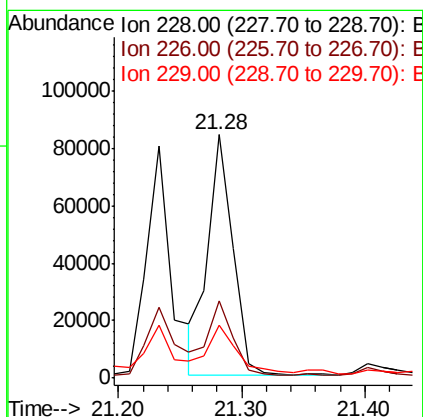
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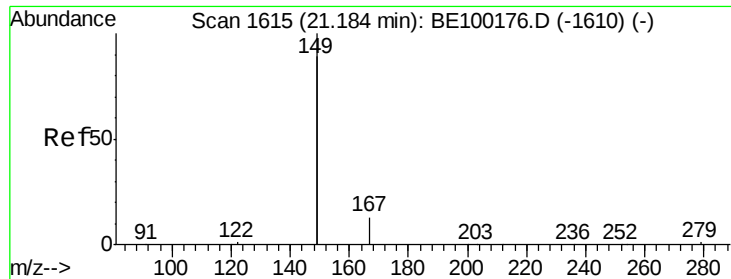
mohammad
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#31
Chrysene
Concen: 3.509 ng
RT: 21.28 min Scan# 1623
Delta R.T. -0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	23.7	35.5
229	22.0	16.5	24.7





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.289 ng

RT: 21.16 min Scan# 1613

Delta R.T. -0.00 min

Lab File: BE100220.D

Acq: 28 Jun 2019 00:30

Instrument :

BNA_E

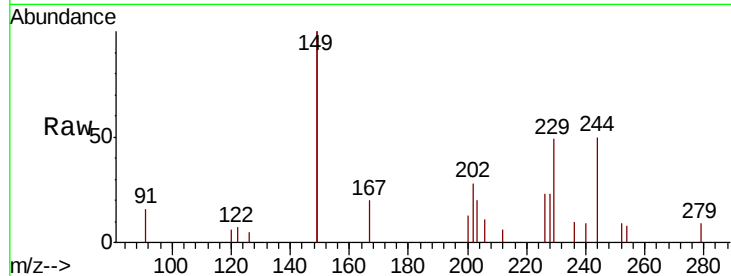
ClientSampleId :

EXT-013-SW165-061319

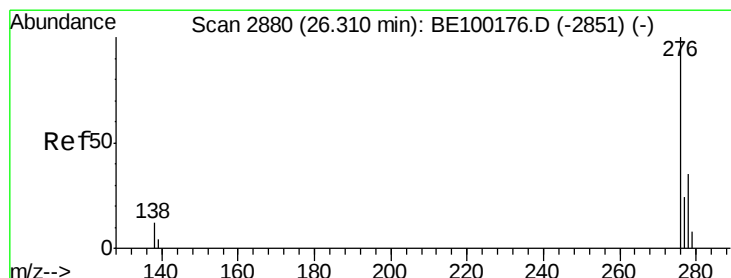
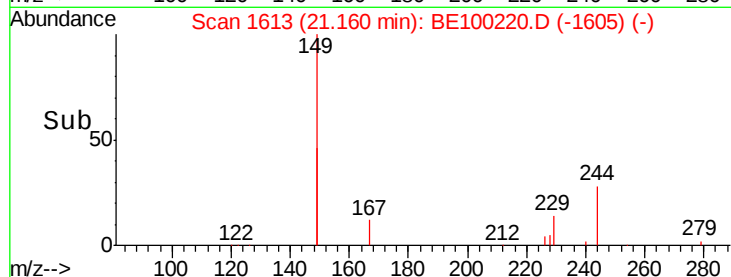
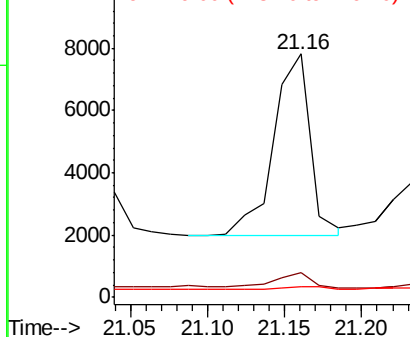
Tot Ion:	149	Resp:	9657
Ion Ratio	Lower	Upper	
149	100		
167	7.6	5.9	8.9
279	1.2	1.0	1.6

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 1.267 ng

RT: 26.23 min Scan# 2857

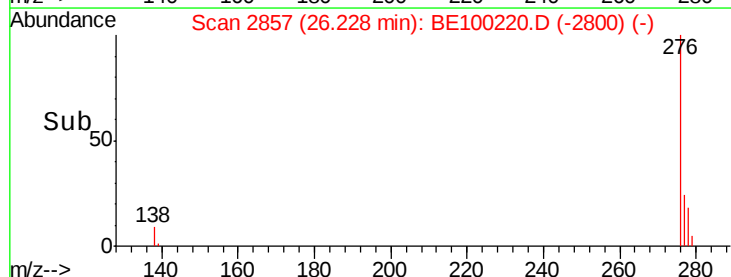
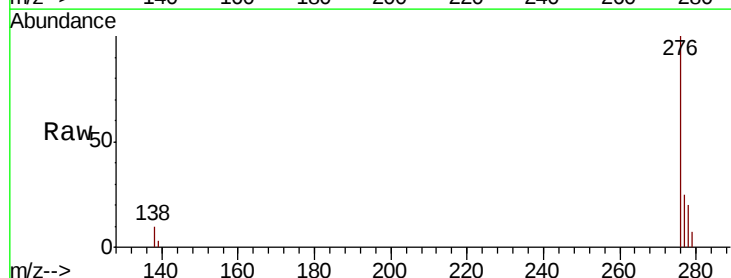
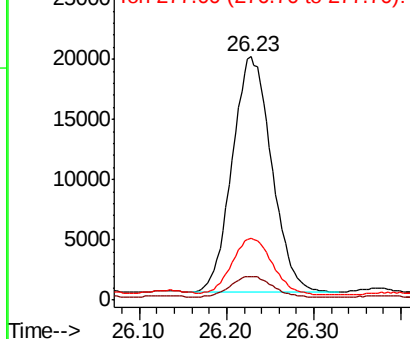
Delta R.T. 0.00 min

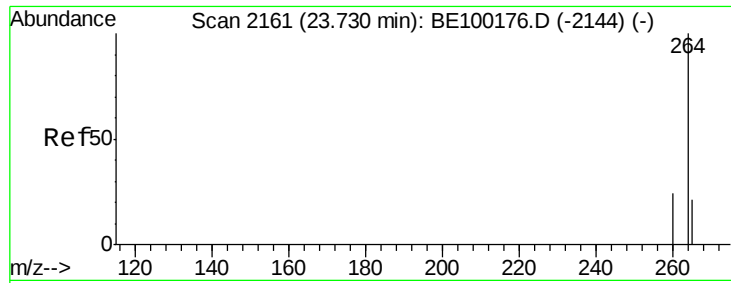
Lab File: BE100220.D

Acq: 28 Jun 2019 00:30

Tgt Ion:	276	Resp:	61473
Ion Ratio	Lower	Upper	
276	100		
138	9.4	3.7	5.5#
277	25.0	18.7	28.1

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





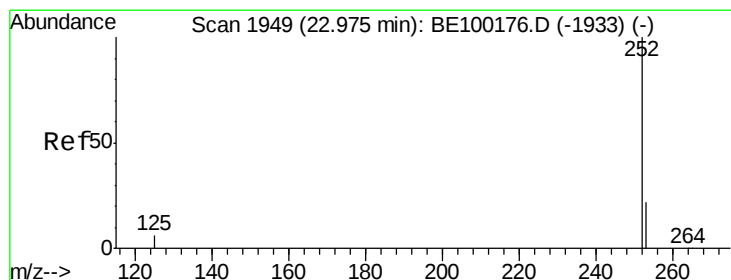
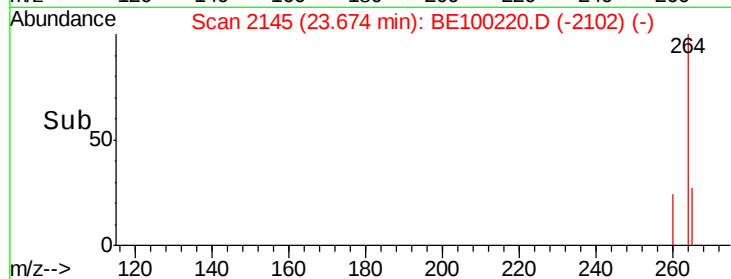
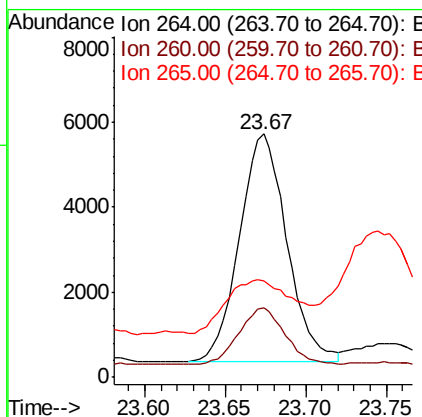
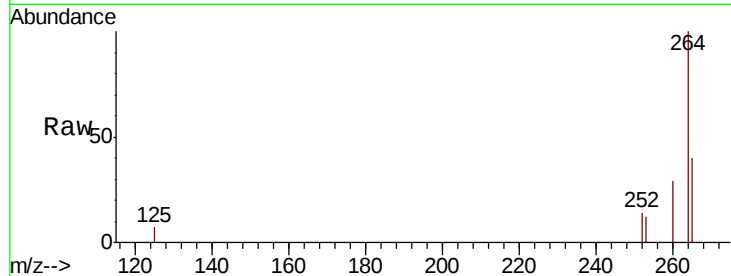
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2145
Delta R.T. 0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
264	100		
260	28.5	20.4	30.6
265	39.5	22.5	33.7

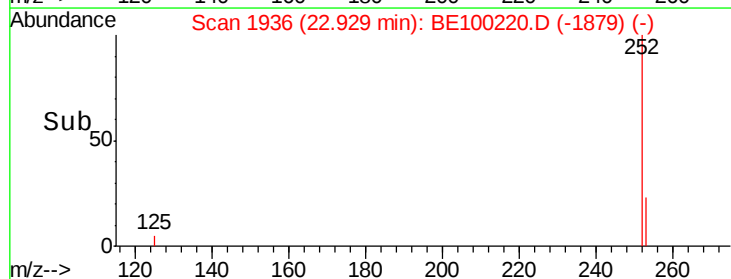
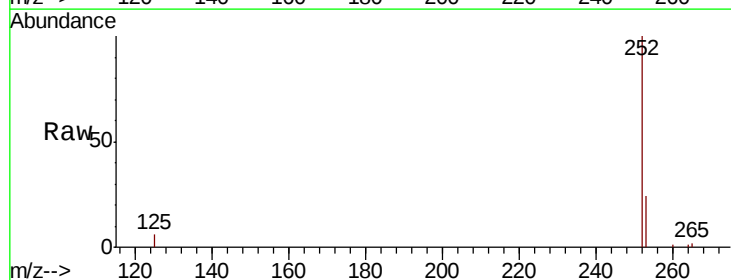
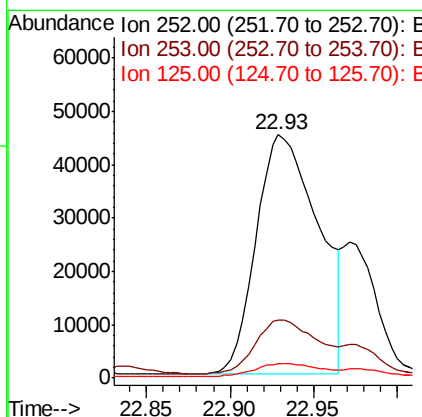
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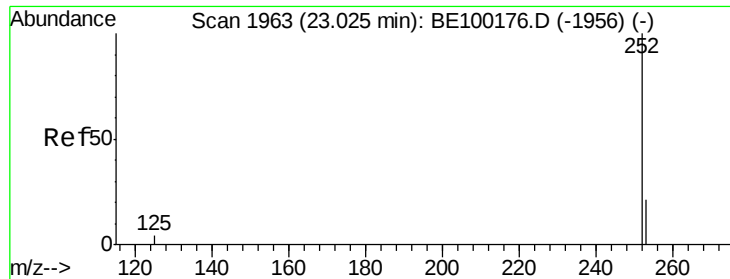
mohammad
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#35
Benzo(b)fluoranthene
Concen: 3.940 ng
RT: 22.93 min Scan# 1936
Delta R.T. 0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	19.0	28.4
125	5.8	6.3	9.5





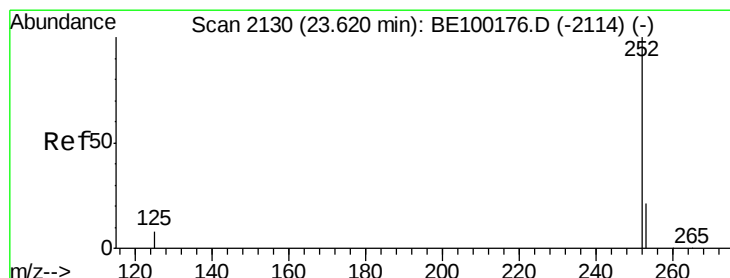
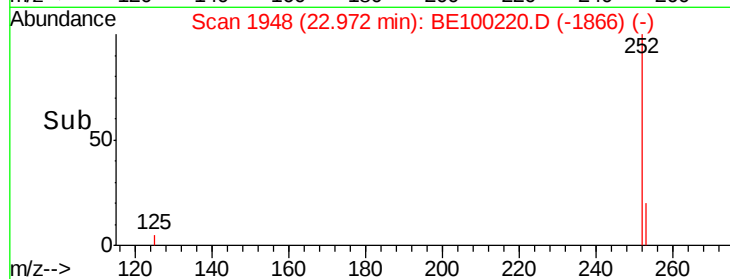
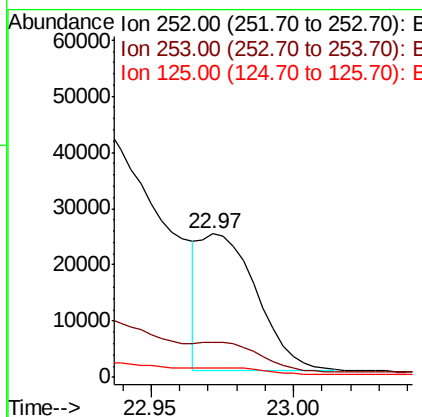
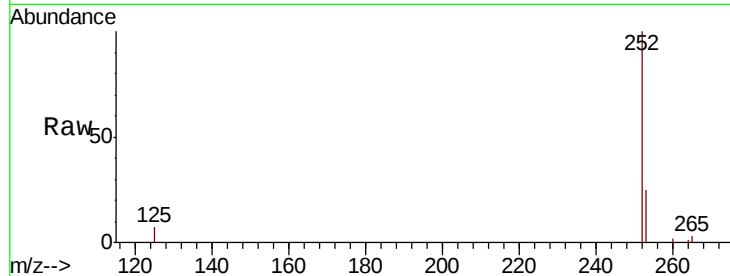
#36
Benzo(k)fluoranthene
Concen: 0.946 ng m
RT: 22.97 min Scan# 1948
Delta R.T. -0.01 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.4	27.6
125	6.5	5.0	7.4

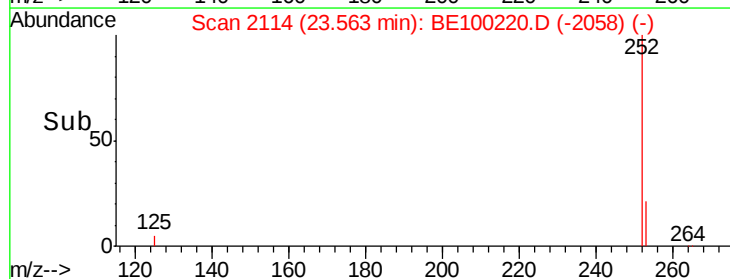
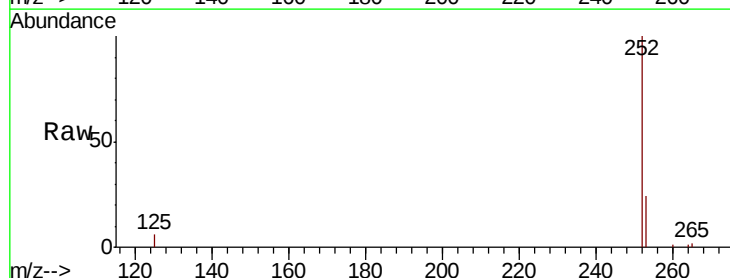
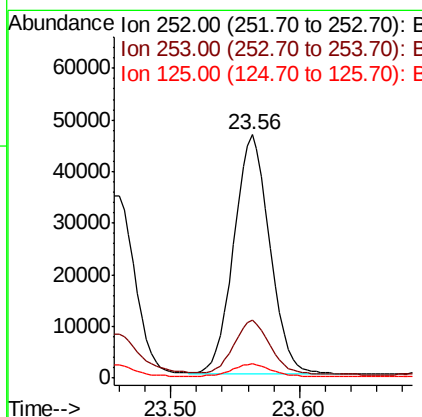
Manual Integrations
APPROVED

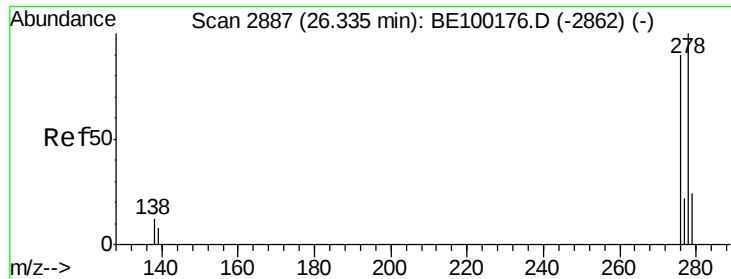
mohammad
7/1/2019 8:12:31 AM



#37
Benzo(a)pyrene
Concen: 2.929 ng m
RT: 23.56 min Scan# 2114
Delta R.T. 0.00 min
Lab File: BE100220.D
Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	19.2	28.8
125	5.7	8.2	12.2#





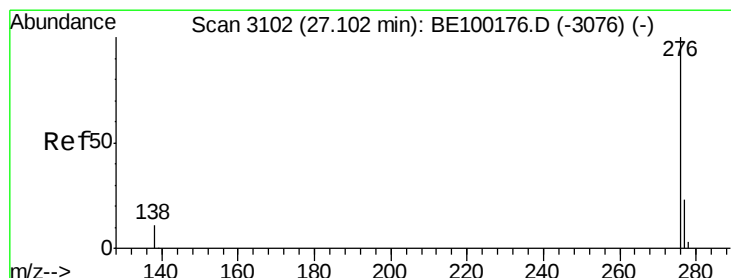
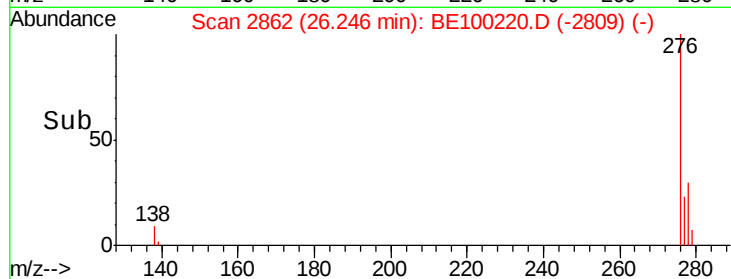
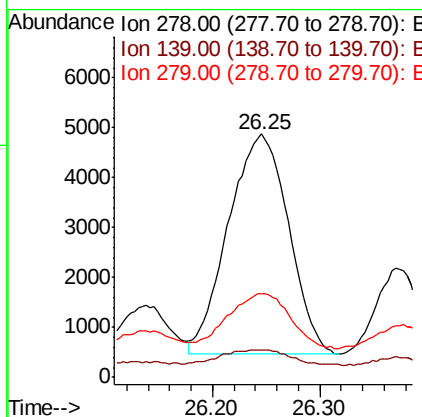
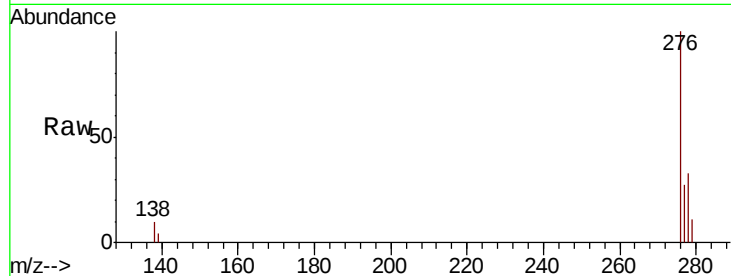
#38
 Dibenzo(a,h)anthracene
 Concen: 0.518 ng
 RT: 26.25 min Scan# 2862
 Delta R.T. -0.01 min
 Lab File: BE100220.D
 Acq: 28 Jun 2019 00:30

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW165-061319

Tot Ion	Ratio	Lower	Upper
278	100		
139	11.3	9.0	13.4
279	34.5	21.1	31.7

Manual Integrations
 APPROVED

mohammad
 7/1/2019 8:12:31 AM



#39
 Benzo(g,h,i)perylene
 Concen: 2.011 ng
 RT: 27.02 min Scan# 3079
 Delta R.T. 0.00 min
 Lab File: BE100220.D
 Acq: 28 Jun 2019 00:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.8	29.6
138	10.1	10.2	15.4

