

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
 Data File : BE100209.D
 Acq On : 27 Jun 2019 17:53
 Operator : JU/SJ
 Sample : K3428-02
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B040-061319

Manual Integrations
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mohammad
 7/1/2019 8:11:48 AM

Quant Time: Jun 27 19:21:25 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Jun 27 19:14:38 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	729	0.40	ng	0.00
7) Naphthalene-d8	10.45	136	2434	0.40	ng	0.00
13) Acenaphthene-d10	14.33	164	1944	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	6089	0.40	ng	-0.01
27) Chrysene-d12	21.25	240	8783	0.40	ng	0.00
34) Perylene-d12	23.67	264	10173	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.23	112	430	0.27	ng	0.00
5) Phenol-d6	6.84	99	568	0.25	ng	0.00
8) Nitrobenzene-d5	8.83	82	575	0.24	ng	0.01
11) 2-Methylnaphthalene-d10	12.05	152	1682	0.37	ng	0.00
14) 2,4,6-Tribromophenol	15.82	330	276	0.25	ng	0.00
15) 2-Fluorobiphenyl	12.94	172	1915	0.25	ng	-0.01
25) Fluoranthene-d10	19.10	212	32633	0.37	ng	0.00
29) Terphenyl-d14	19.70	244	4150	0.24	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.50	128	3007	0.113	ng	# 92
12) 2-Methylnaphthalene	12.14	142	550	0.129	ng	94
16) Acenaphthylene	14.04	152	3086	0.326	ng	100
17) Acenaphthene	14.38	154	386	0.073	ng	# 94
18) Fluorene	15.37	166	1210	0.158	ng	# 85
22) Pentachlorophenol	16.75	266	62	0.316	ng	# 80
23) Phenanthrene	17.09	178	30220	2.095	ng	99
24) Anthracene	17.20	178	2431	0.200	ng	# 91
26) Fluoranthene	19.13	202	47637	2.030	ng	98
28) Pvrene	19.49	202	71174	3.164	ng	96
30) Benzo(a)anthracene	21.22	228	34031	1.314	ng	94
31) Chrysene	21.28	228	42697	1.406	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	3995	0.134	ng	97
33) Indeno(1,2,3-cd)pyrene	26.22	276	18197	0.421	ng	99
35) Benzo(b)fluoranthene	22.93	252	35709	1.305	ng	99
36) Benzo(k)fluoranthene	22.96	252	12133m	0.371	ng	
37) Benzo(a)pvrene	23.56	252	28698	1.012	ng	99
38) Dibenzo(a,h)anthracene	26.23	278	5059	0.167	ng	# 84
39) Benzo(g,h,i)perylene	27.00	276	21145	0.668	ng	98

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

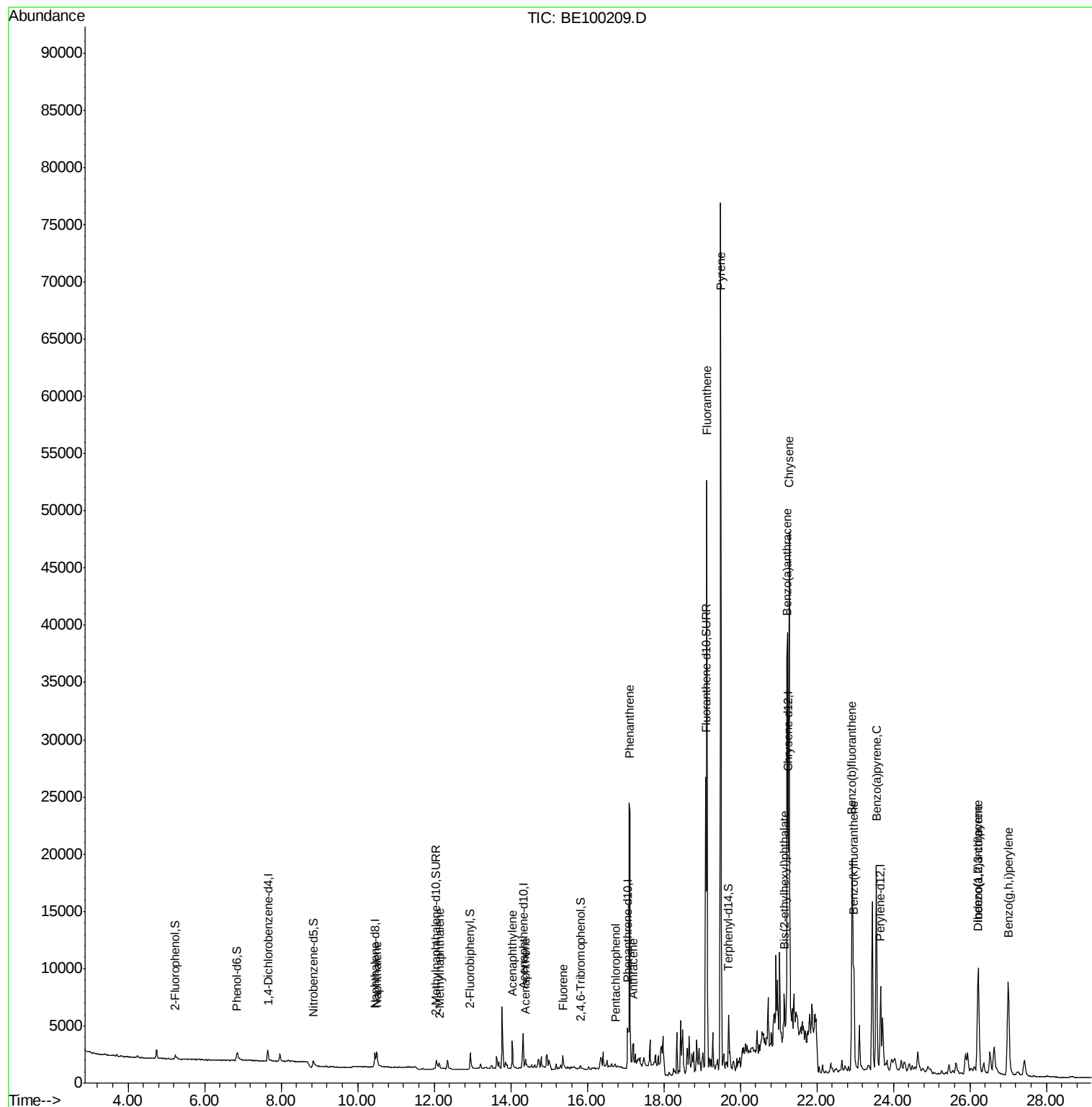
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
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#1

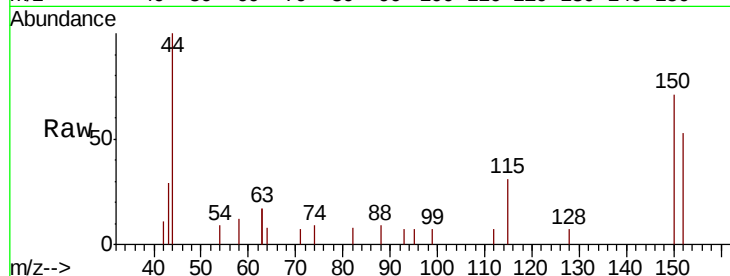
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.66 min Scan# 416
Delta R.T. 0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

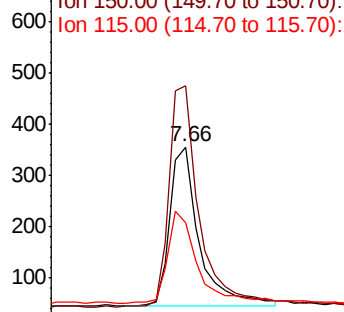
Tot Ion	Ratio	Lower	Upper
152	100		
150	133.5	103.7	155.5
115	58.6	48.5	72.7

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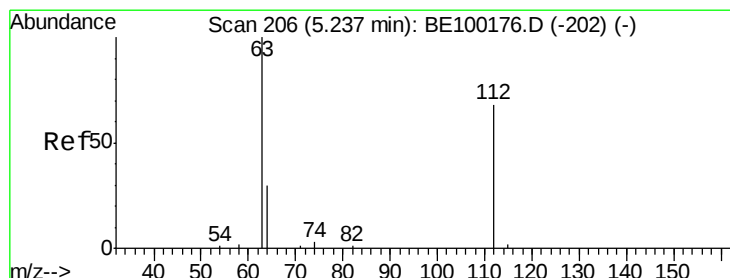
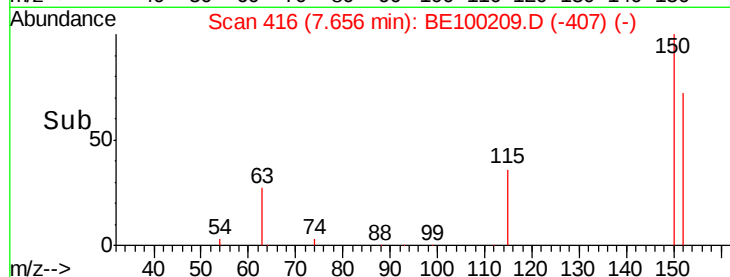
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



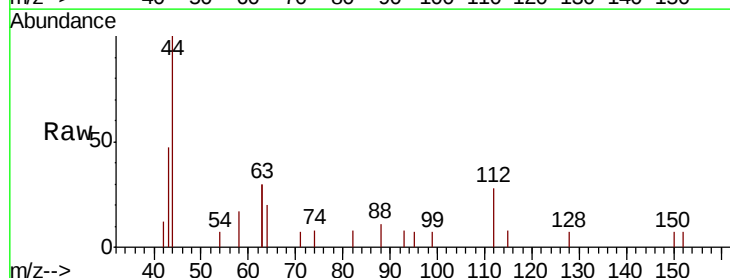
Time-->



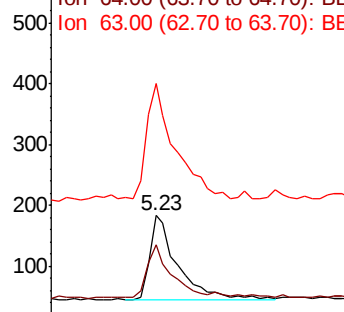
#4

2-Fluorophenol
Concen: 0.265 ng
RT: 5.23 min Scan# 205
Delta R.T. 0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

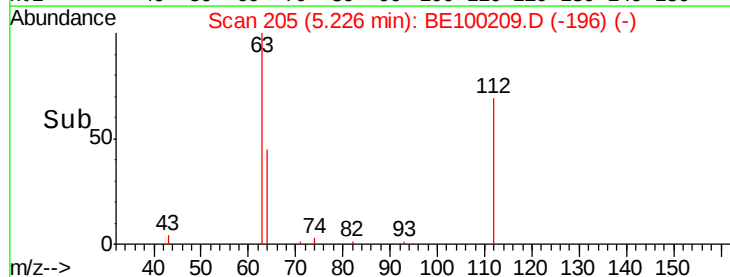
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.6	46.3	69.5
63	131.4	105.3	157.9

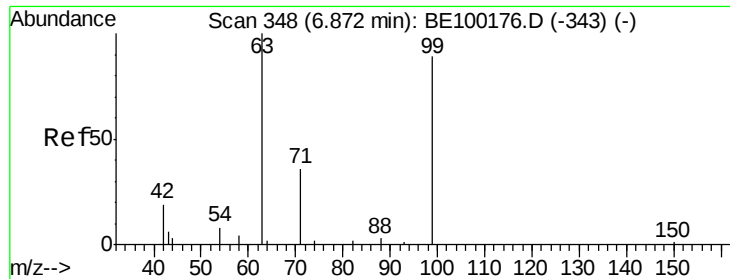


Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE1
Ion 63.00 (62.70 to 63.70): BE1



Time-->





#5

Phenol-d6

Concen: 0.255 ng

RT: 6.84 min Scan# 345

Delta R.T. 0.00 min

Lab File: BE100209.D

Acq: 27 Jun 2019 17:53

Instrument :

BNA_E

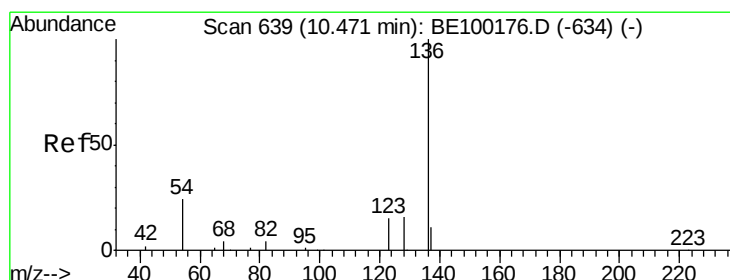
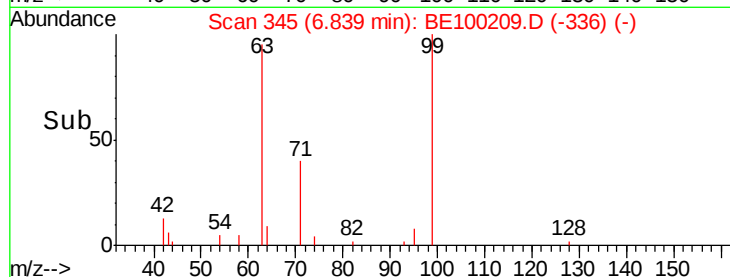
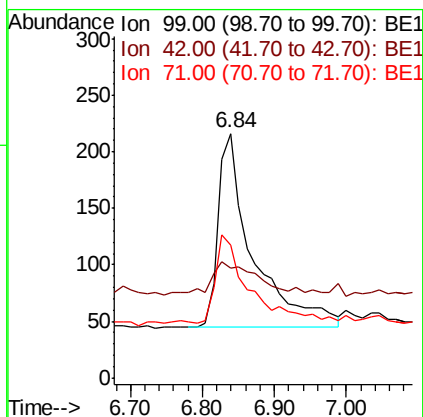
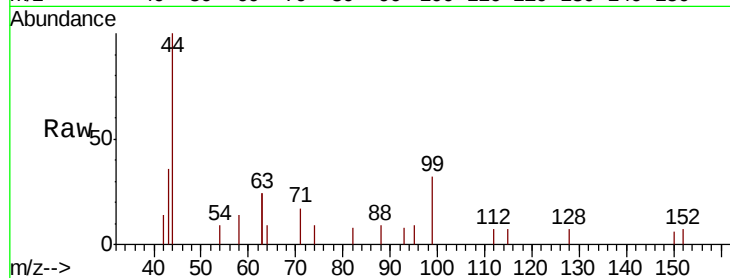
ClientSampleId :

PST-084-B040-061319

Tot Ion:	99	Resp:	568
Ion	Ratio	Lower	Upper
99	100		
42	17.1	12.6	18.8
71	46.0	35.5	53.3

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#7

Naphthalene-d8

Concen: 0.400 ng

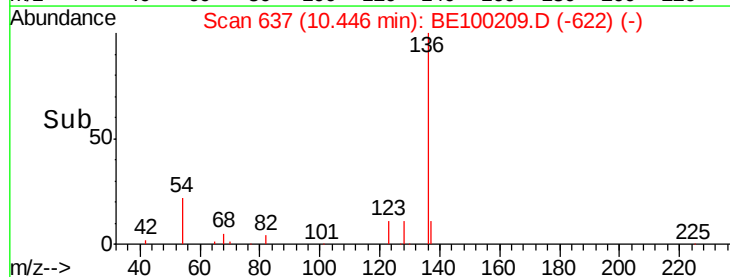
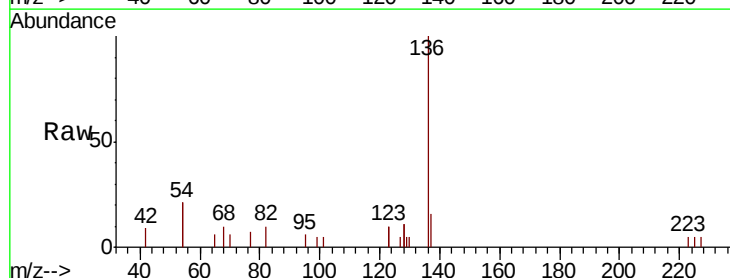
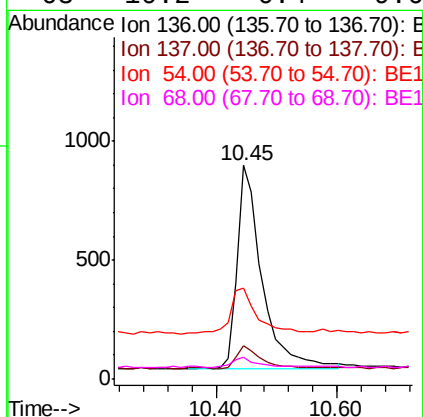
RT: 10.45 min Scan# 637

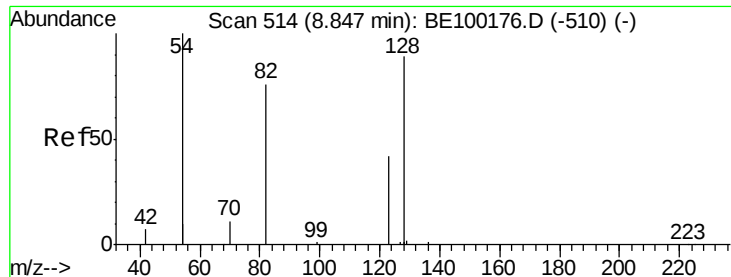
Delta R.T. -0.00 min

Lab File: BE100209.D

Acq: 27 Jun 2019 17:53

Tgt Ion:	136	Resp:	2434
Ion	Ratio	Lower	Upper
136	100		
137	15.8	11.3	16.9
54	42.5	27.8	41.8#
68	10.2	6.4	9.6#





#8

Nitrobenzene-d5

Concen: 0.237 ng

RT: 8.83 min Scan# 513

Delta R.T. 0.01 min

Lab File: BE100209.D

Acq: 27 Jun 2019 17:53

Instrument :

BNA_E

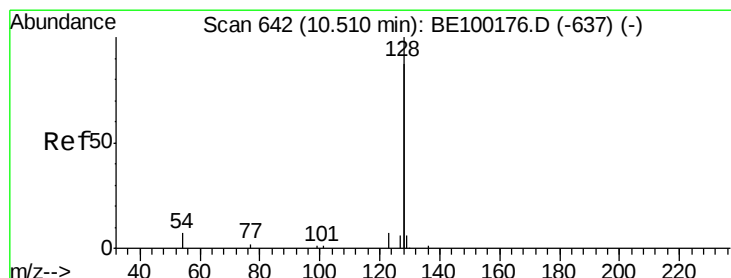
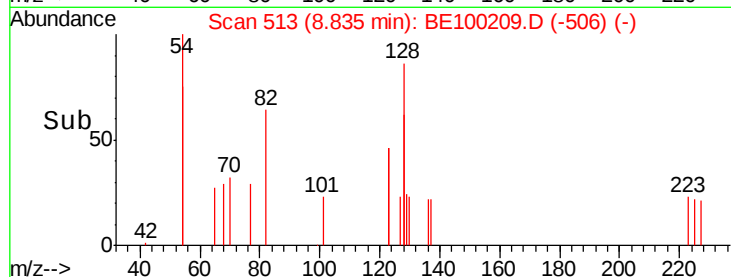
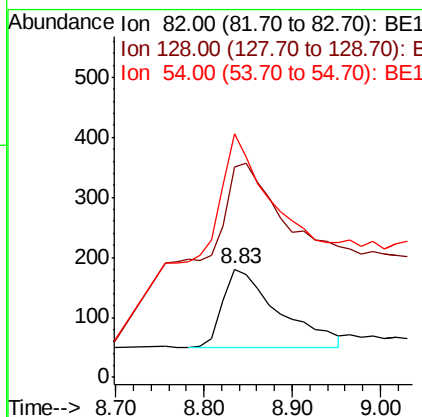
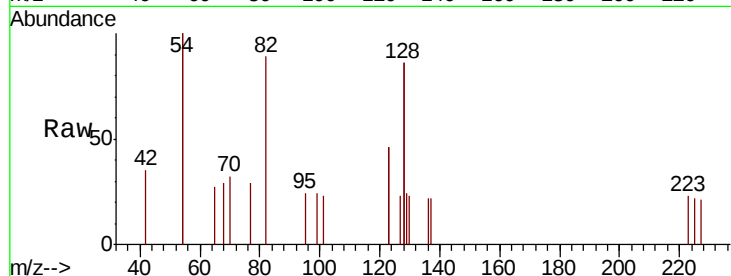
ClientSampleId :

PST-084-B040-061319

Tot Ion:	82	Resp:	575
Ion Ratio	Lower	Upper	
82	100		
128	194.4	123.8	185.8#
54	225.6	149.4	224.0#

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#9

Naphthalene

Concen: 0.113 ng

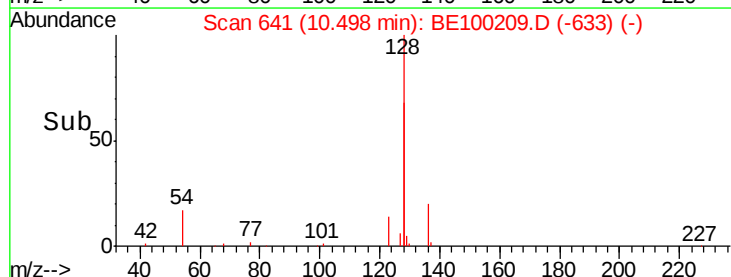
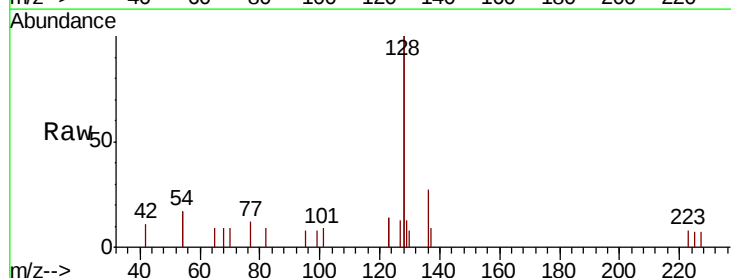
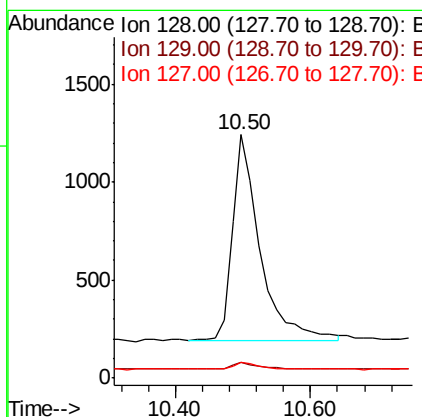
RT: 10.50 min Scan# 641

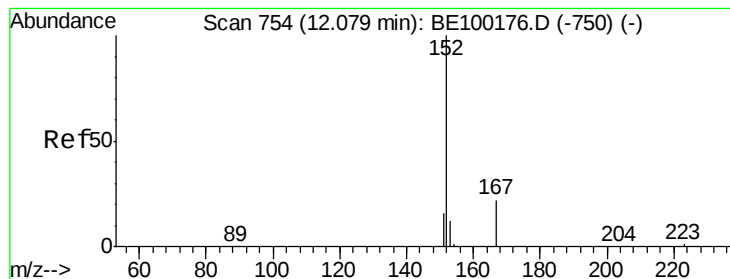
Delta R.T. -0.00 min

Lab File: BE100209.D

Acq: 27 Jun 2019 17:53

Tgt Ion:	128	Resp:	3007
Ion Ratio	Lower	Upper	
128	100		
129	6.5	3.0	4.4#
127	6.7	3.5	5.3#





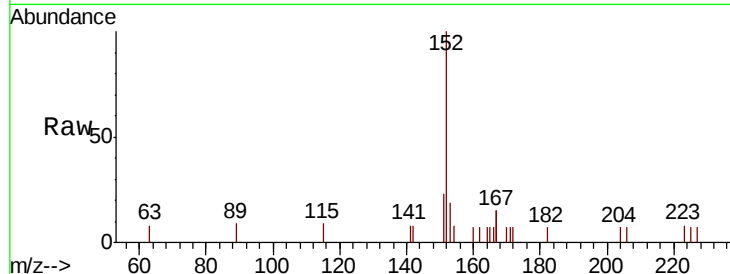
#11
 2-Methylnaphthalene-d10
 Concen: 0.369 ng
 RT: 12.05 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B040-061319

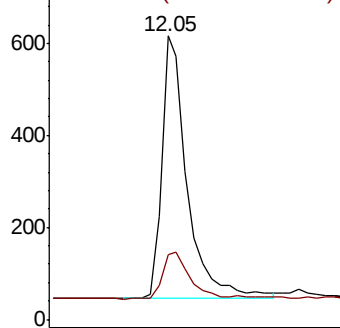
Tot Ion:152 Resp: 1682
 Ion Ratio Lower Upper
 152 100
 151 19.5 16.5 24.7

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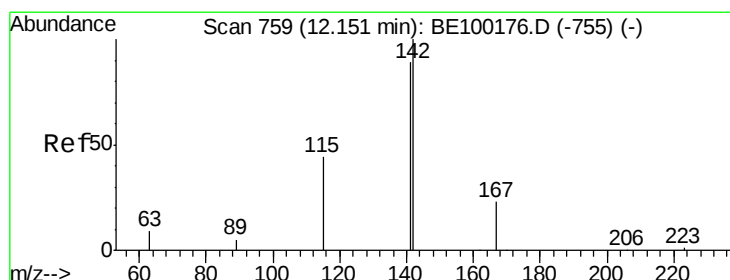
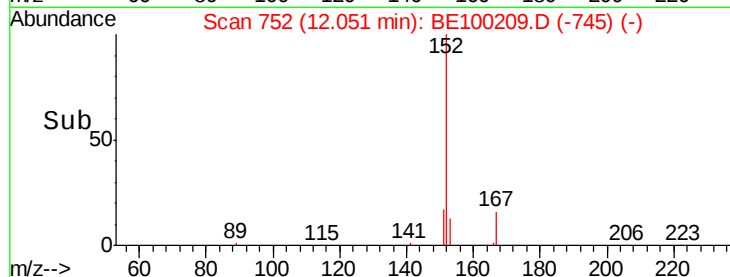
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Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E

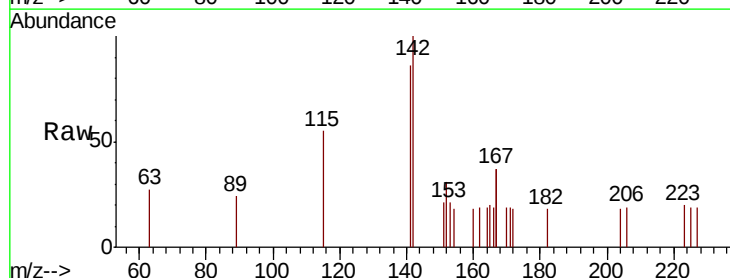


Time-->

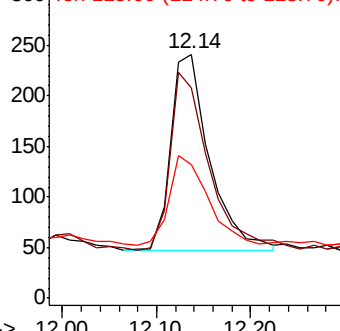


#12
 2-Methylnaphthalene
 Concen: 0.129 ng
 RT: 12.14 min Scan# 758
 Delta R.T. -0.00 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

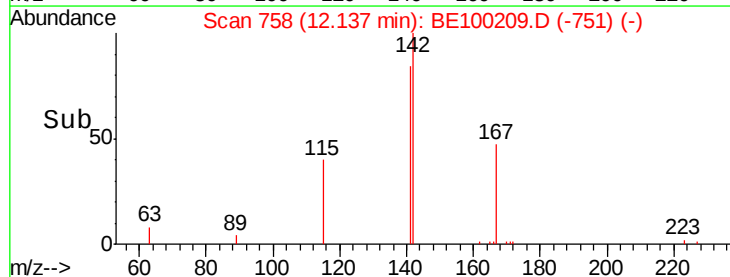
Tgt Ion:142 Resp: 550
 Ion Ratio Lower Upper
 142 100
 141 86.3 72.2 108.2
 115 54.8 39.1 58.7

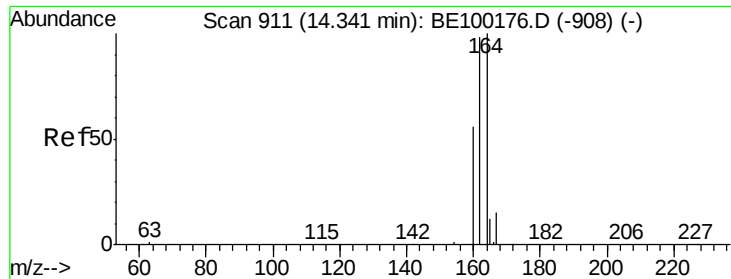


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E



Time-->





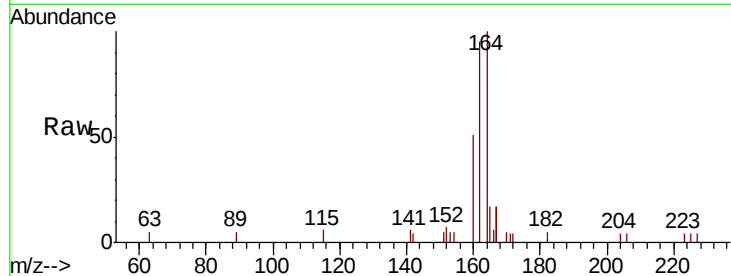
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.33 min Scan# 910
Delta R.T. -0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
164	100		
162	95.4	75.8	113.6
160	51.2	42.0	63.0

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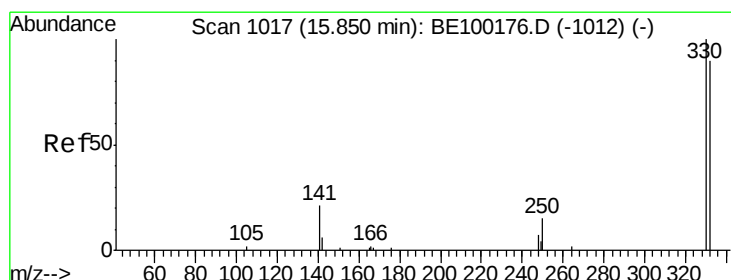
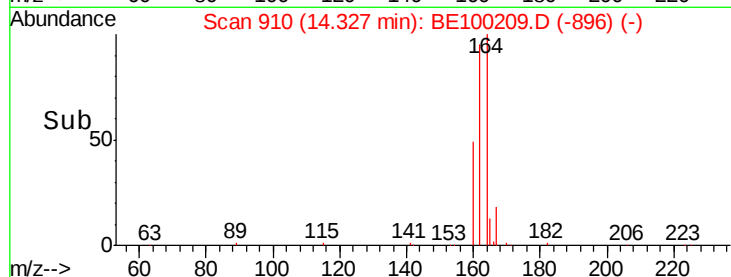
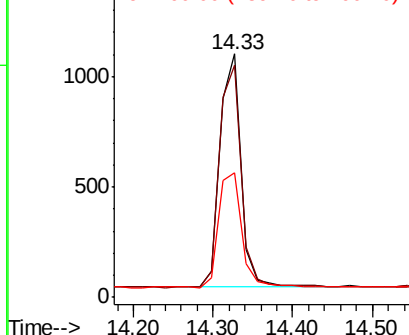


Abundance

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: 0.245 ng
RT: 15.82 min Scan# 1015
Delta R.T. 0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

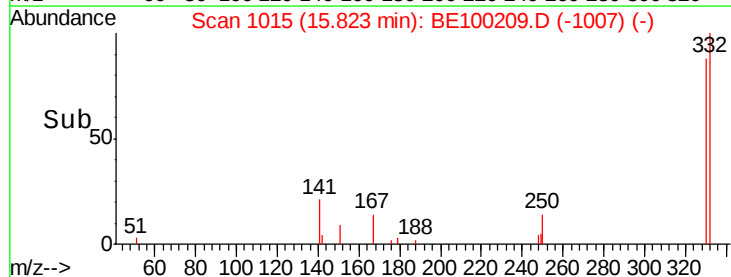
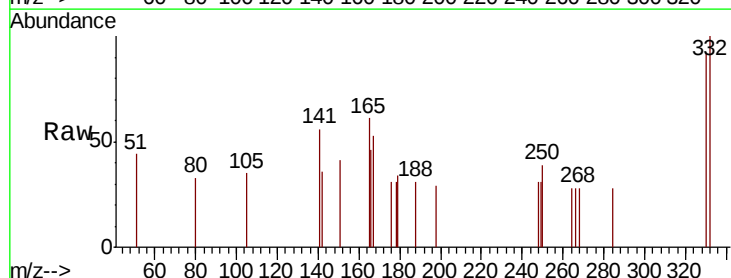
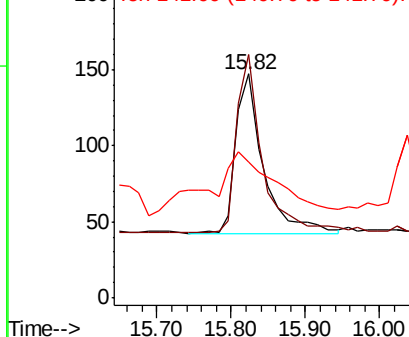
Tgt Ion	Ratio	Lower	Upper
330	100		
332	102.9	71.8	107.8
141	55.4	19.0	28.6

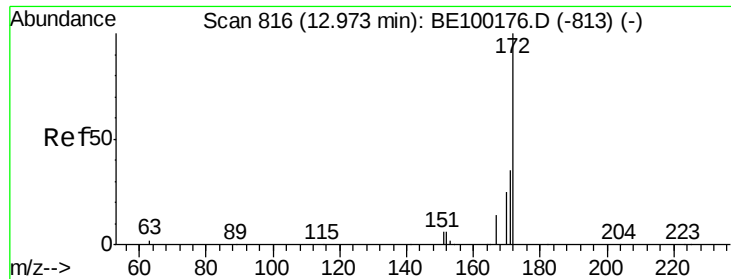
Abundance

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





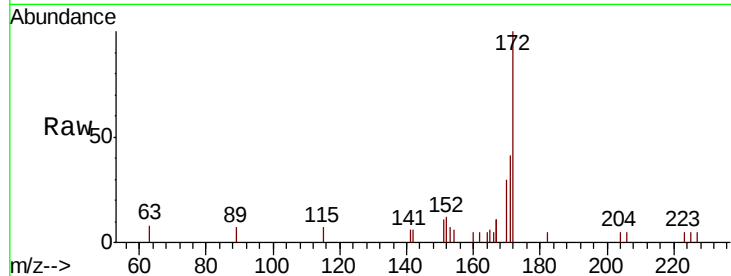
#15
2-Fluorobiphenyl
Concen: 0.246 ng
RT: 12.94 min Scan# 814
Delta R.T. -0.01 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
172	100		
171	40.9	28.3	42.5
170	30.3	19.8	29.6

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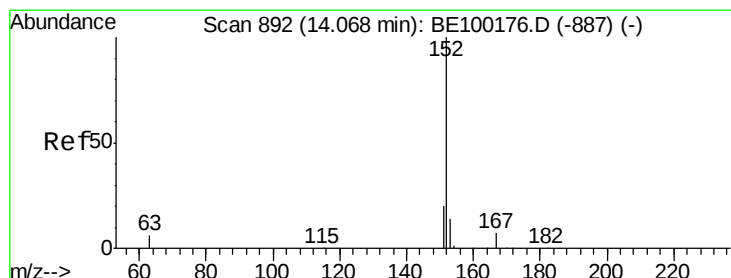
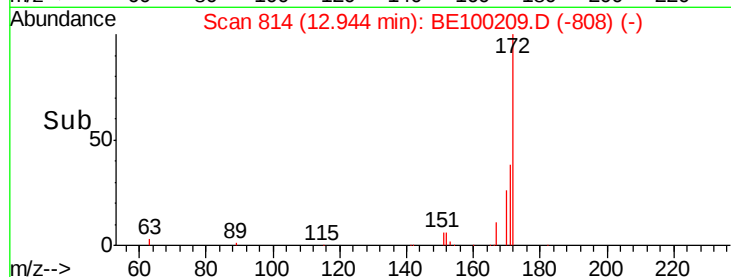
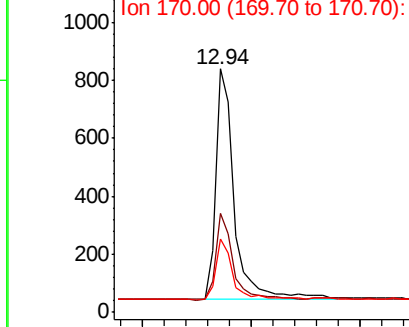


Abundance

Ion 172.00 (171.70 to 172.70): E

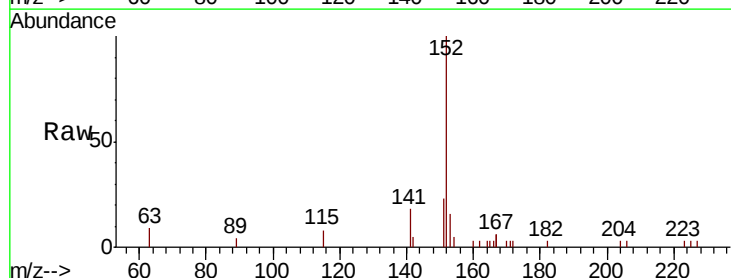
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 0.326 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.5	10.6	16.0

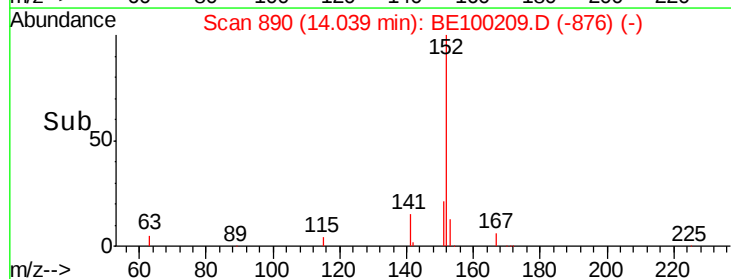
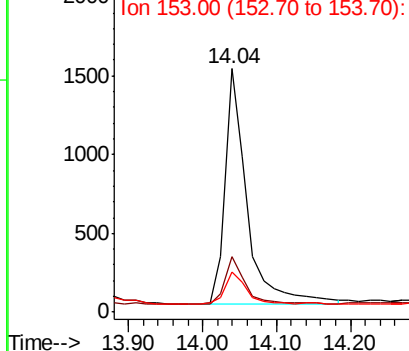


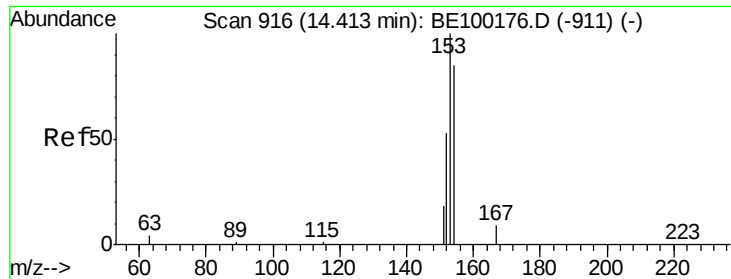
Abundance

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





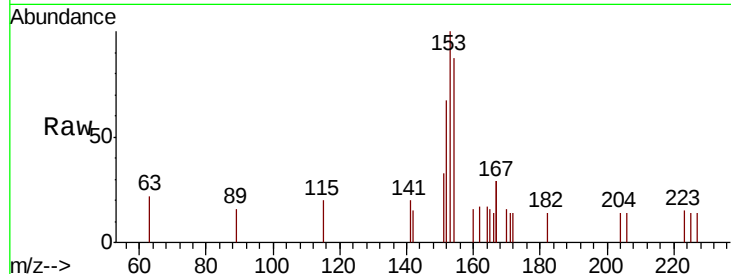
#17
Acenaphthene
Concen: 0.073 ng
RT: 14.38 min Scan# 914
Delta R.T. -0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
154	100		
153	122.3	97.4	146.2
152	81.3	54.2	81.2#

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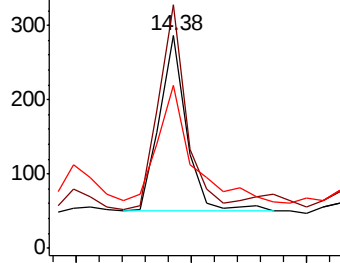


Abundance

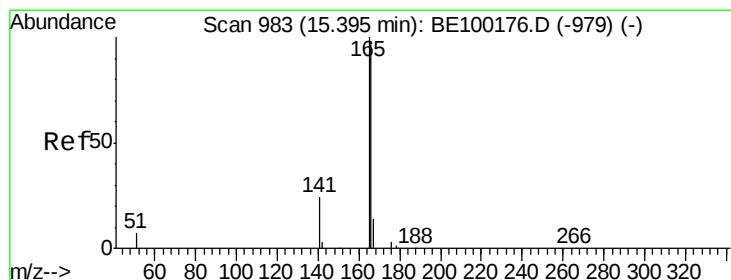
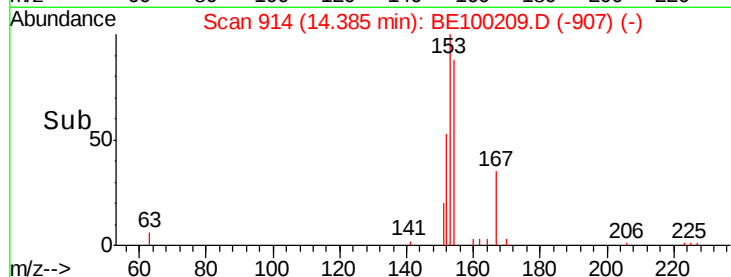
Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#18
Fluorene
Concen: 0.158 ng
RT: 15.37 min Scan# 981
Delta R.T. 0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

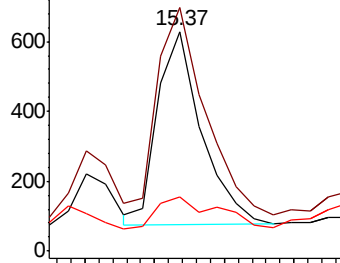
Tgt Ion	Ratio	Lower	Upper
166	100		
165	117.0	82.1	123.1
167	23.1	10.5	15.7#

Abundance

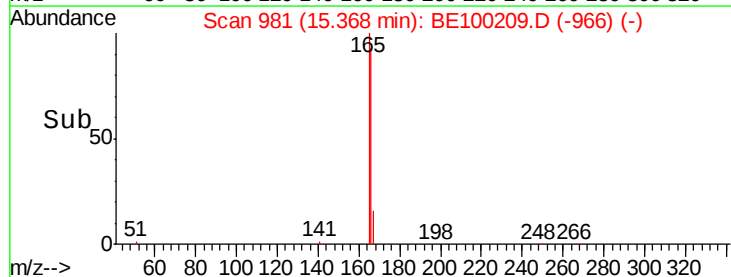
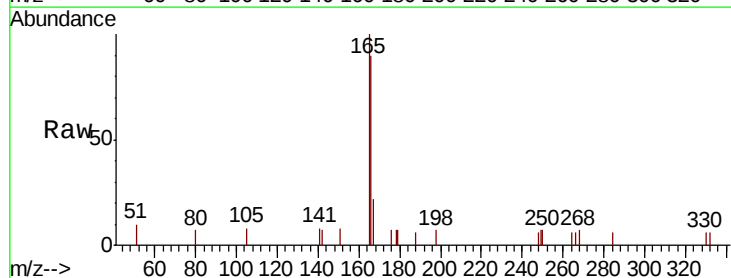
Ion 166.00 (165.70 to 166.70): E

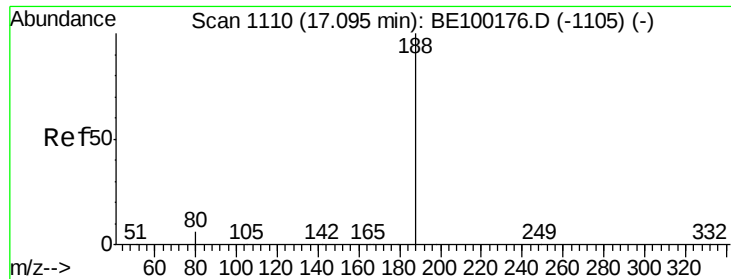
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->





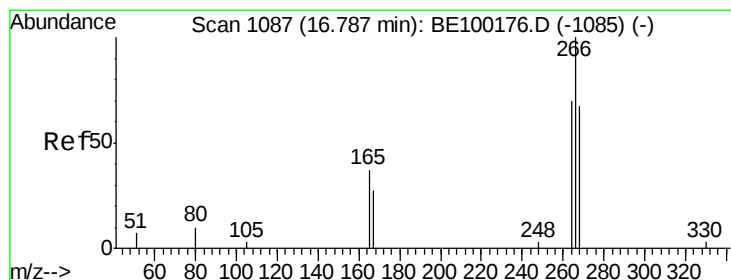
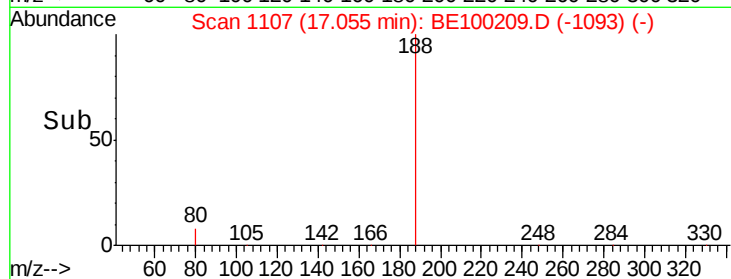
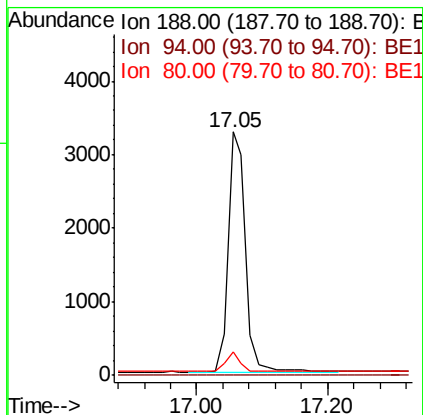
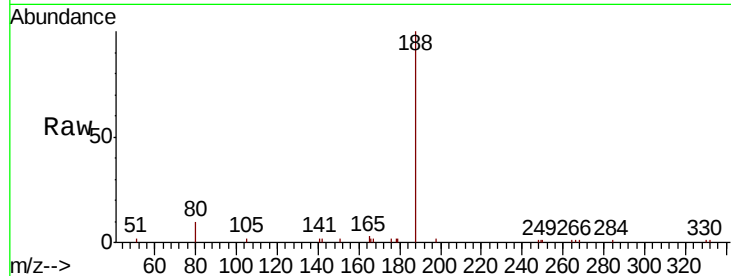
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.01 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	5.5	8.3#

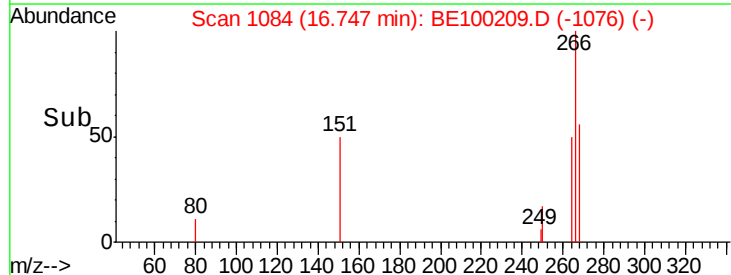
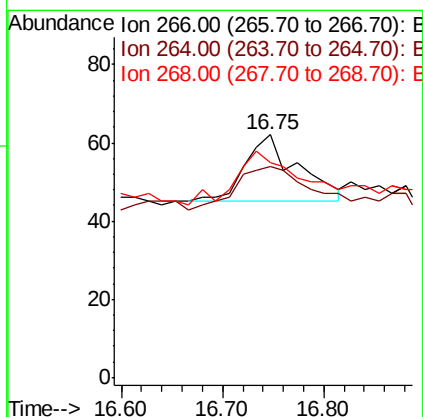
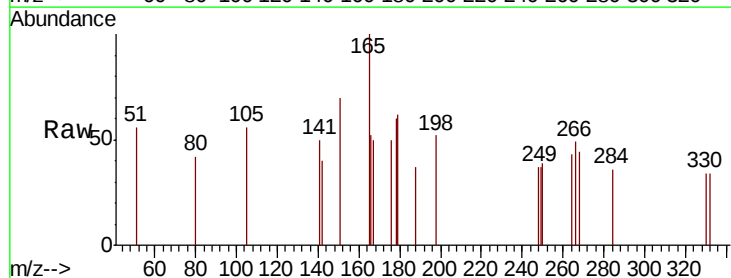
Manual Integrations
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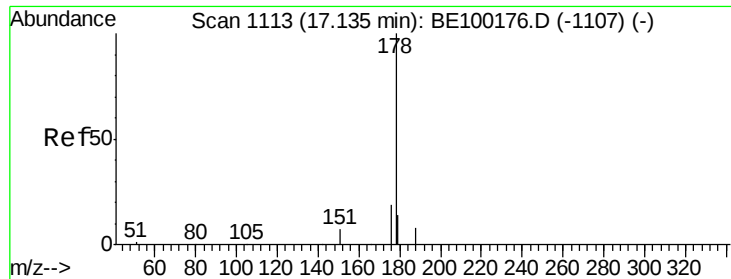
mohammad
7/1/2019 8:11:48 AM



#22
Pentachlorophenol
Concen: 0.316 ng
RT: 16.75 min Scan# 1084
Delta R.T. 0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Tgt Ion	Ratio	Resp Lower	Upper
266	100		
264	87.1	55.3	82.9#
268	88.7	59.4	89.0





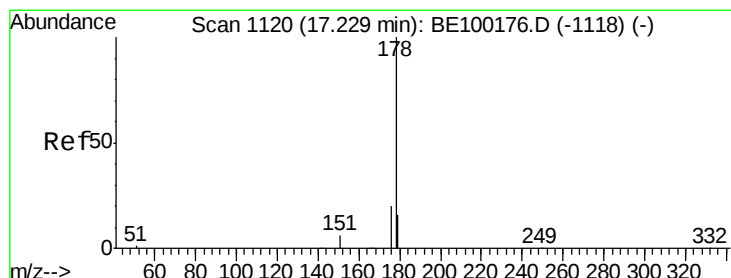
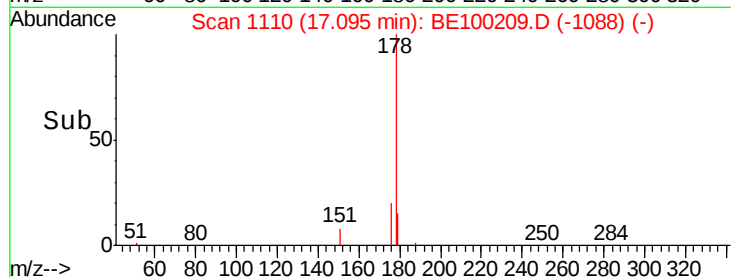
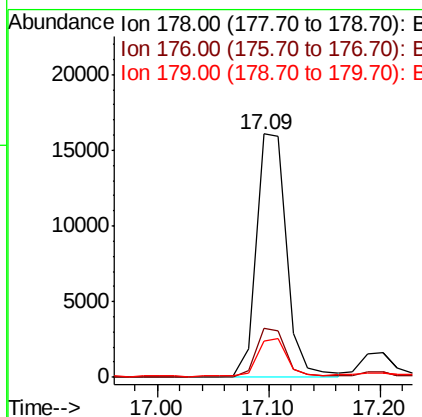
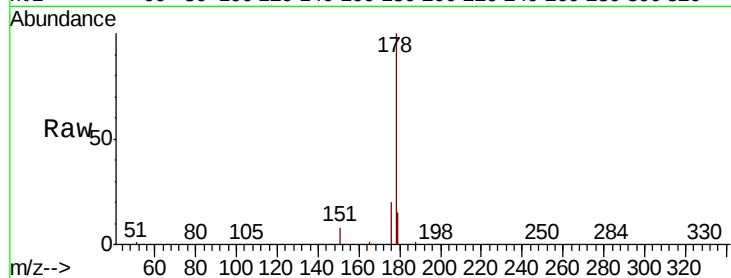
#23
Phenanthrene
Concen: 2.095 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.4	11.9	17.9

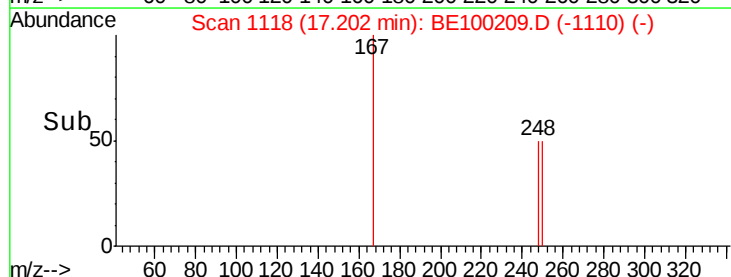
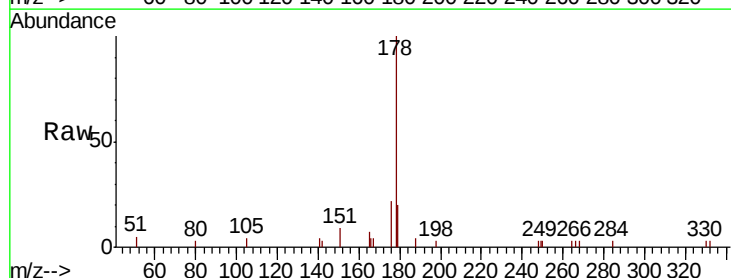
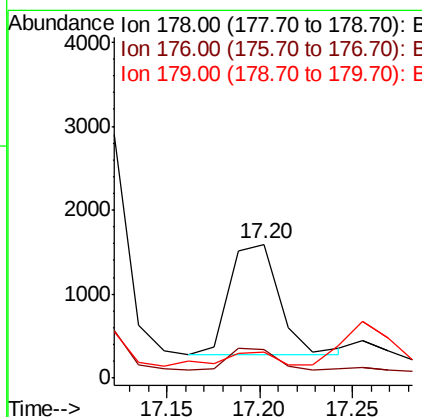
Manual Integrations
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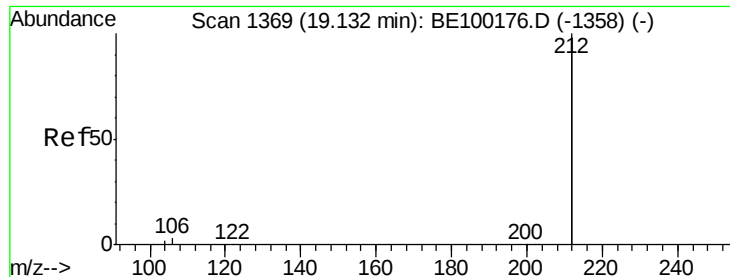
mohammad
7/1/2019 8:11:48 AM



#24
Anthracene
Concen: 0.200 ng
RT: 17.20 min Scan# 1118
Delta R.T. 0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Tgt Ion	Ratio	Lower	Upper
178	100		
176	24.1	15.3	22.9#
179	12.9	12.6	18.8





#25

Fluoranthene-d10

Concen: 0.372 ng

RT: 19.10 min Scan# 1363

Delta R.T. -0.00 min

Lab File: BE100209.D

Acq: 27 Jun 2019 17:53

Instrument :

BNA_E

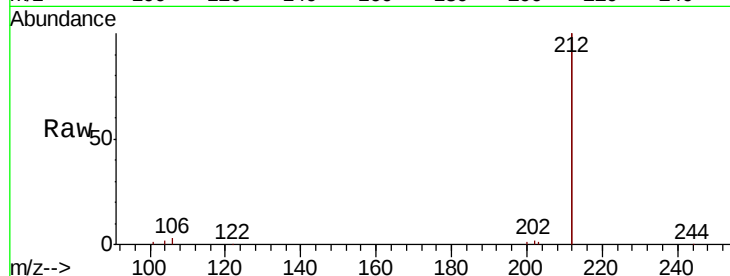
ClientSampleId :

PST-084-B040-061319

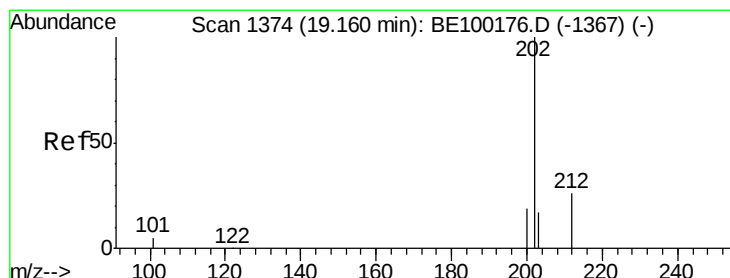
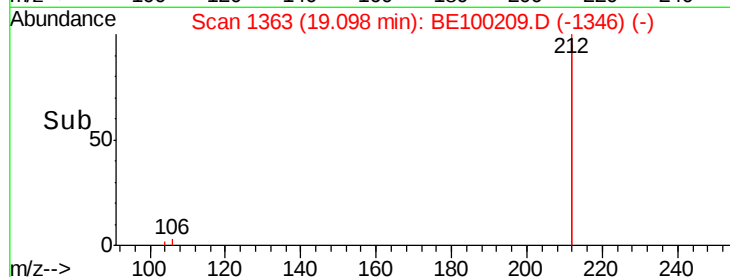
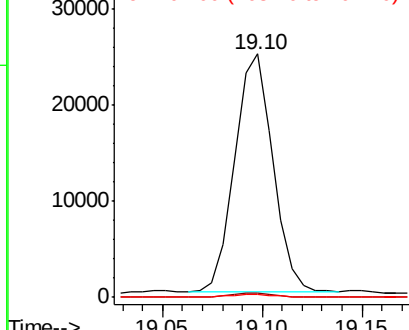
Tot Ion:	212	Resp:	32633
Ion Ratio	Lower	Upper	
212	100		
106	1.7	1.3	1.9
104	1.0	0.8	1.2

Manual Integrations
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mohammad
7/1/2019 8:11:48 AM



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: 2.030 ng

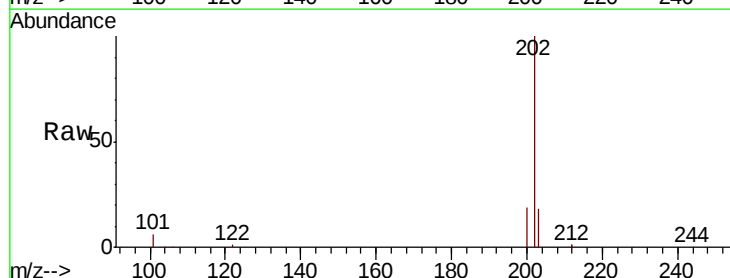
RT: 19.13 min Scan# 1368

Delta R.T. -0.01 min

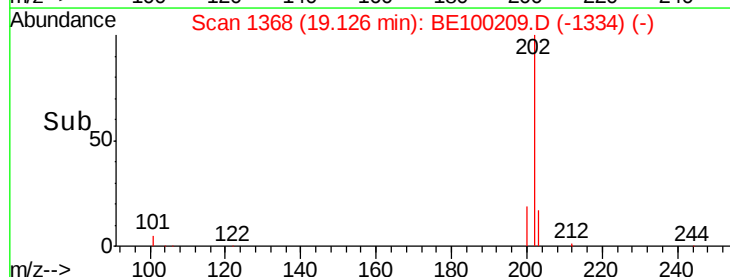
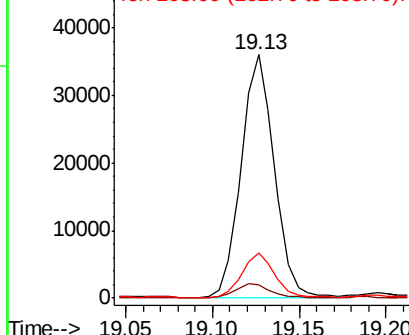
Lab File: BE100209.D

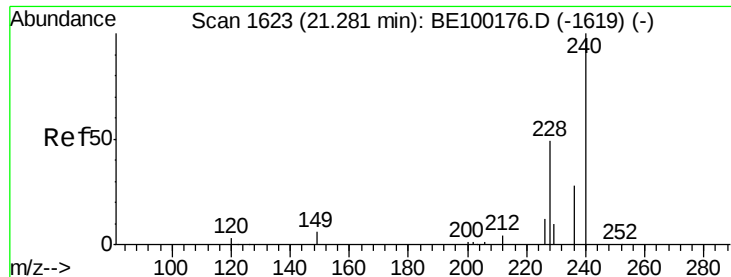
Acq: 27 Jun 2019 17:53

Tgt Ion:	202	Resp:	47637
Ion Ratio	Lower	Upper	
202	100		
101	5.9	4.8	7.2
203	17.8	13.5	20.3



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





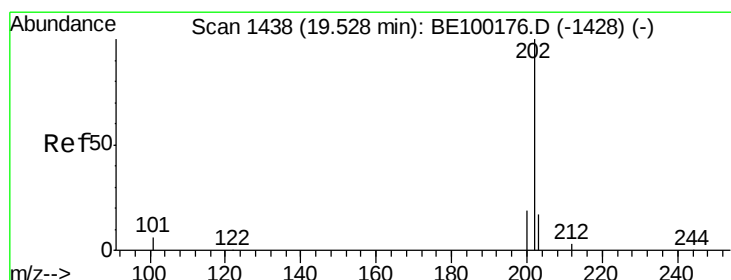
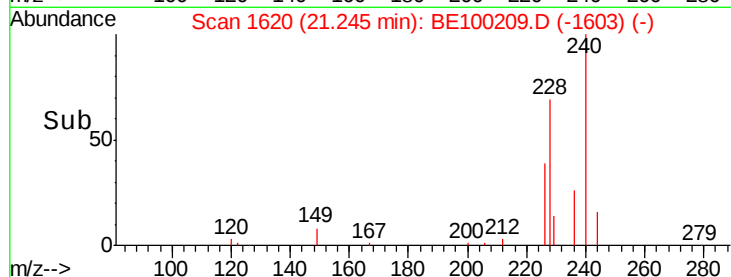
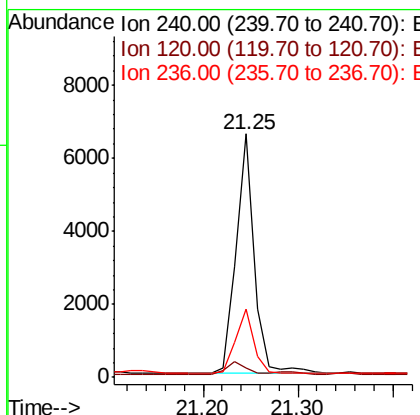
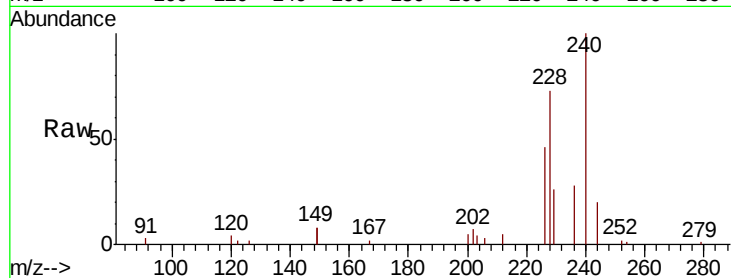
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 1620
Delta R.T. -0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
240	100		
120	3.9	4.2	6.4#
236	27.8	22.3	33.5

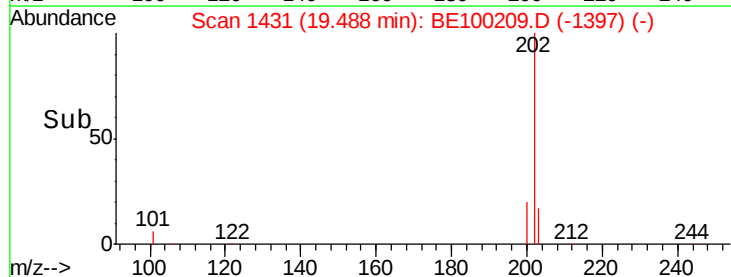
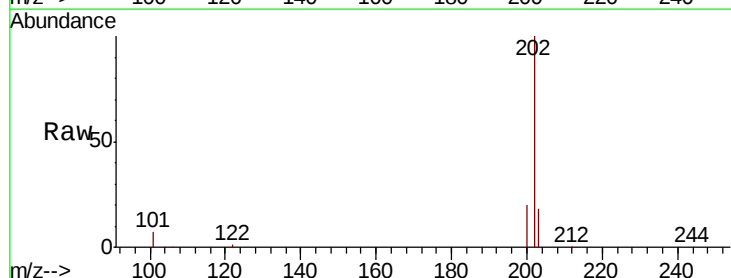
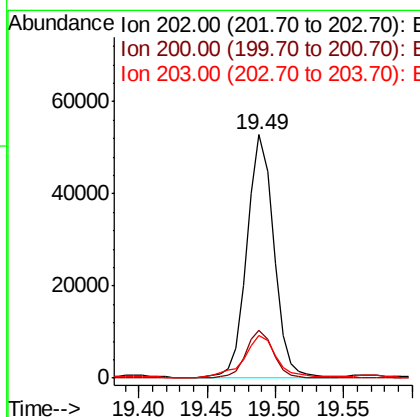
Manual Integrations
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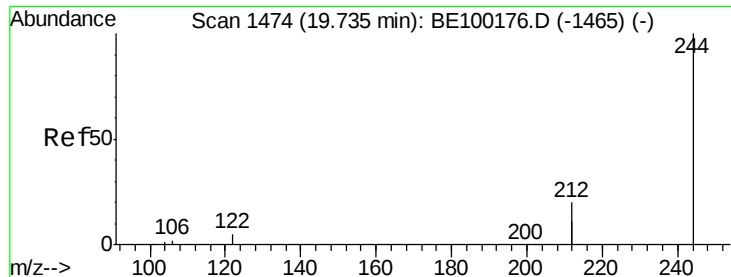
mohammad
7/1/2019 8:11:48 AM



#28
Pyrene
Concen: 3.164 ng
RT: 19.49 min Scan# 1431
Delta R.T. -0.01 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.7	15.5	23.3
203	20.5	13.7	20.5





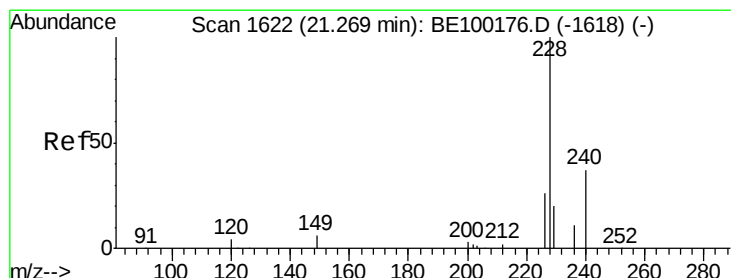
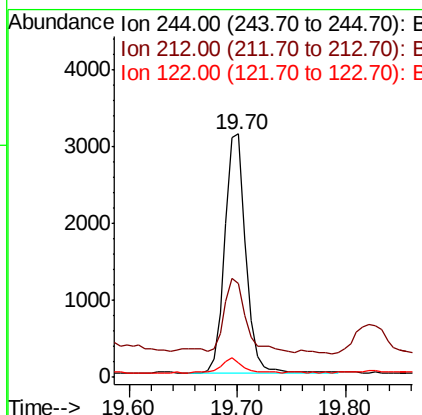
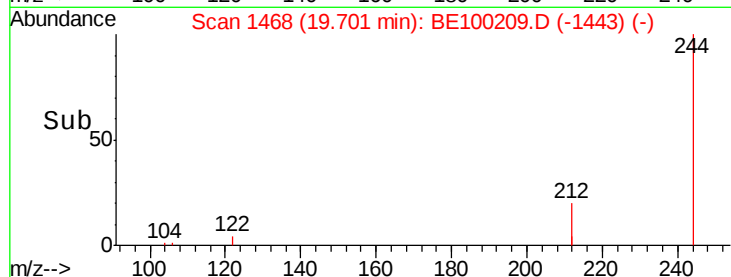
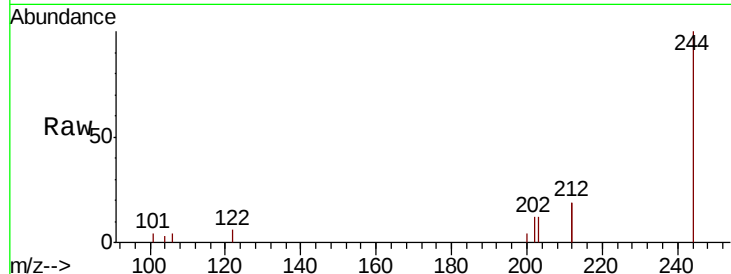
#29
 Terphenyl-d14
 Concen: 0.241 ng
 RT: 19.70 min Scan# 1468
 Delta R.T. -0.01 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
244	100		
212	38.4	27.4	41.2
122	6.0	4.8	7.2

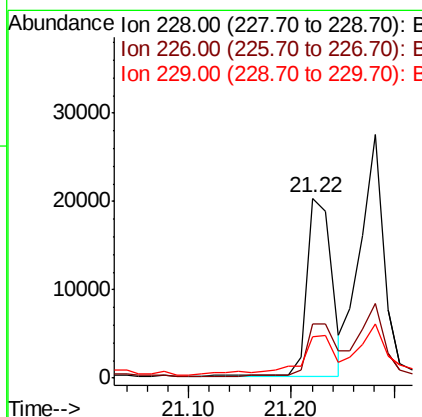
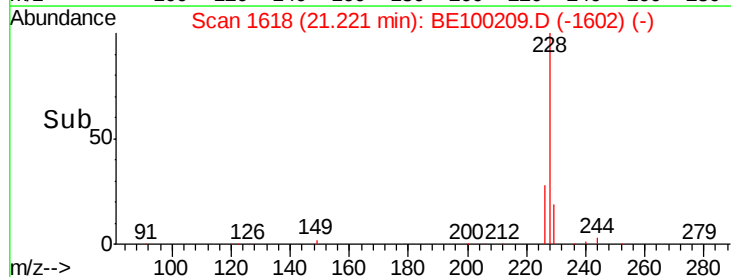
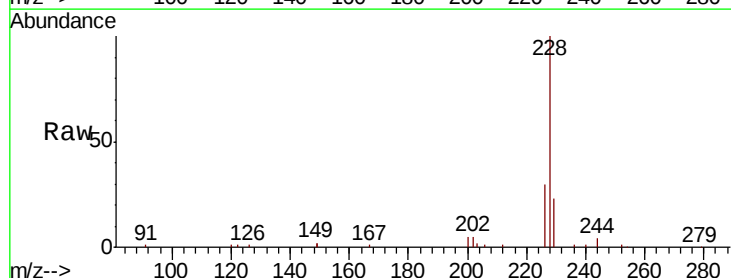
Manual Integrations
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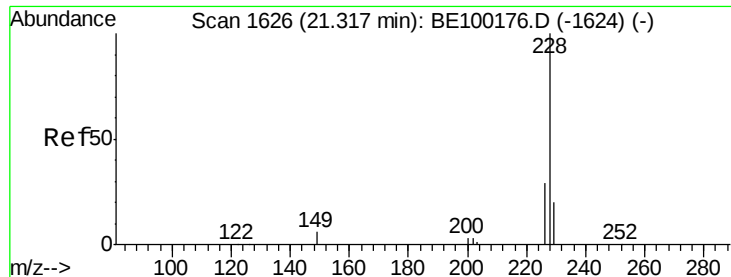
mohammad
 7/1/2019 8:11:48 AM



#30
 Benzo(a)anthracene
 Concen: 1.314 ng
 RT: 21.22 min Scan# 1618
 Delta R.T. -0.01 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	21.8	32.6
229	23.1	15.8	23.8





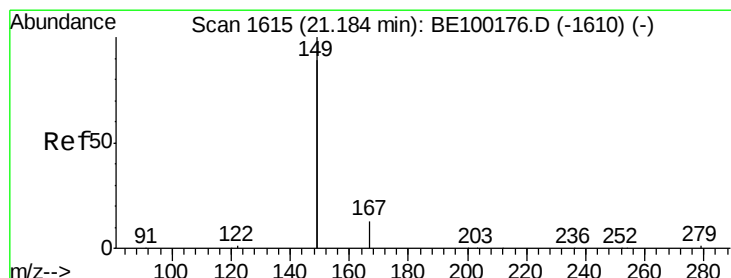
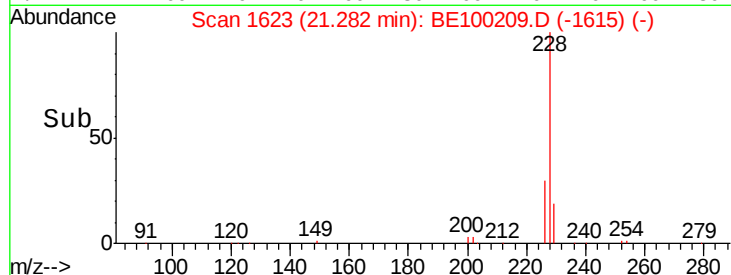
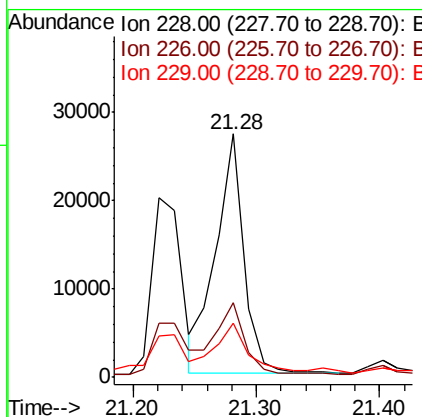
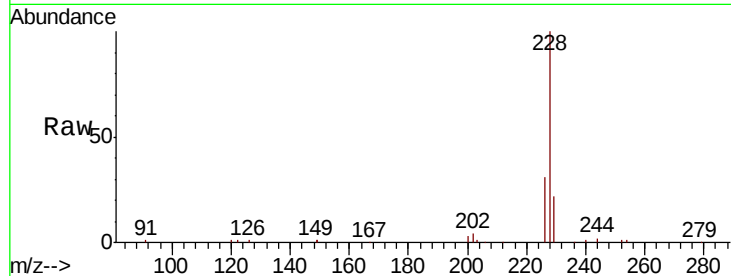
#31
 Chrysene
 Concen: 1.406 ng
 RT: 21.28 min Scan# 1623
 Delta R.T. -0.00 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.2	36.4
229	22.4	15.4	23.0

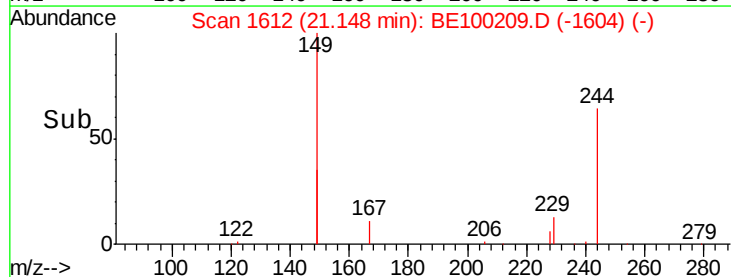
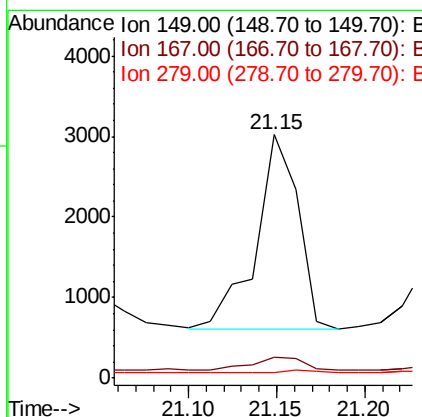
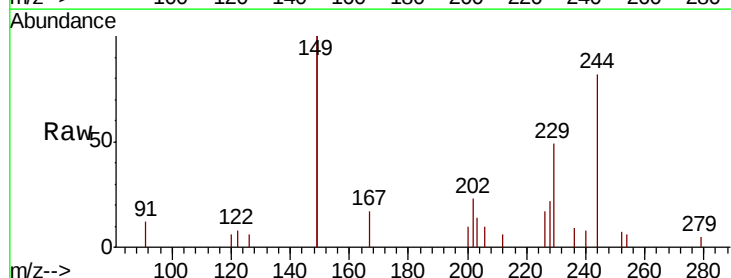
Manual Integrations
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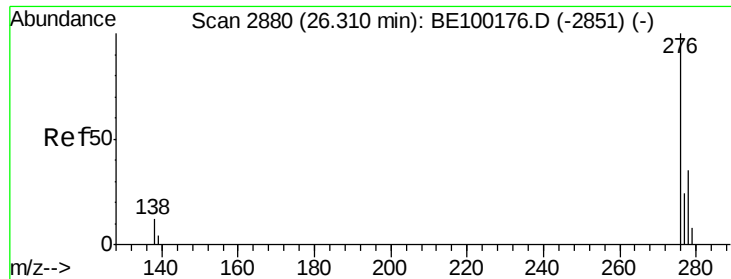
mohammad
 7/1/2019 8:11:48 AM



#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.134 ng
 RT: 21.15 min Scan# 1612
 Delta R.T. -0.00 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

Tgt Ion	Ratio	Lower	Upper
149	100		
167	8.8	6.0	9.0
279	1.5	1.0	1.6





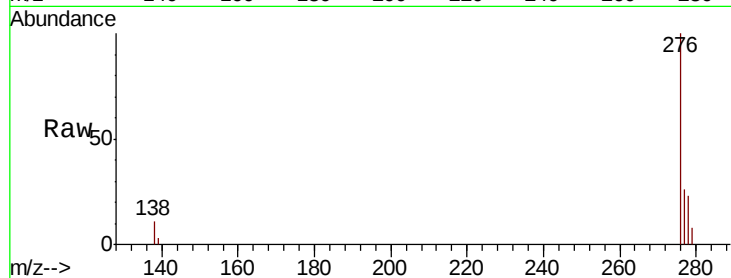
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.421 ng
 RT: 26.22 min Scan# 2854
 Delta R.T. -0.01 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
276	100		
138	11.0	9.6	14.4
277	24.1	19.4	29.0

Manual Integrations
 APPROVED

mohammad
 7/1/2019 8:11:48 AM

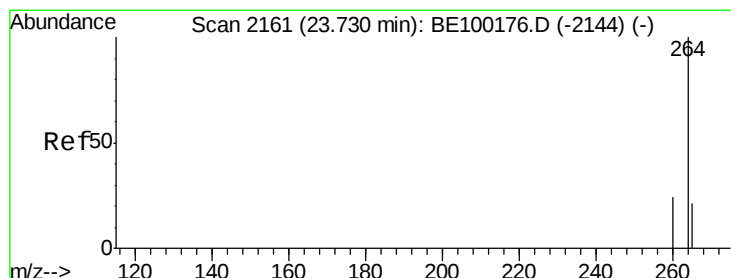
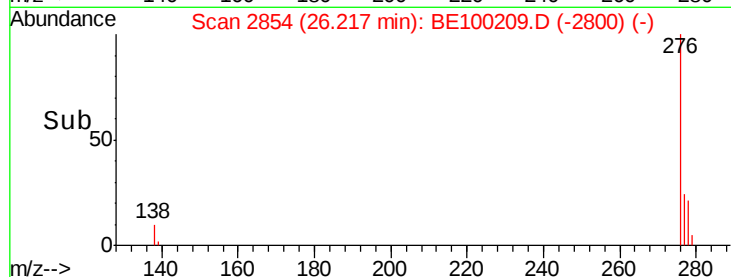
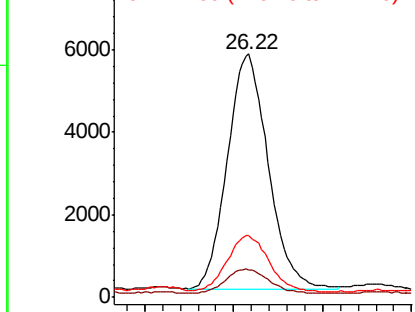


Abundance

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
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.67 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

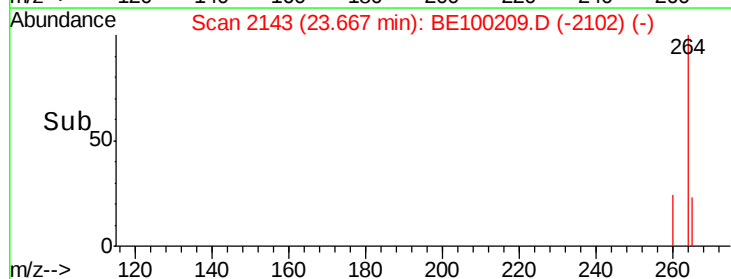
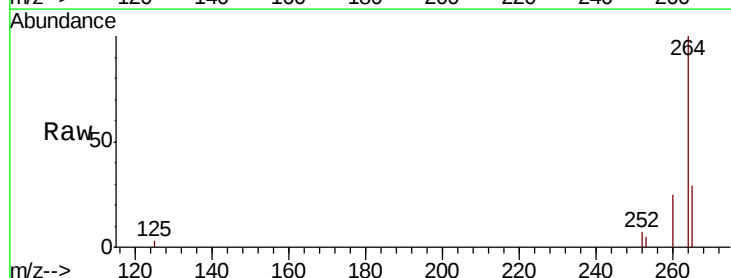
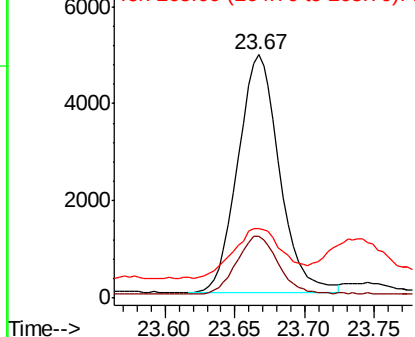
Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	21.1	31.7
265	28.8	21.2	31.8

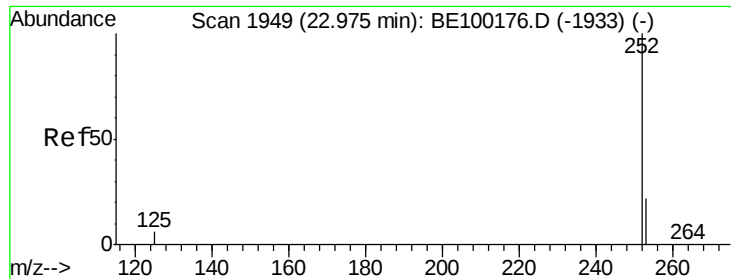
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





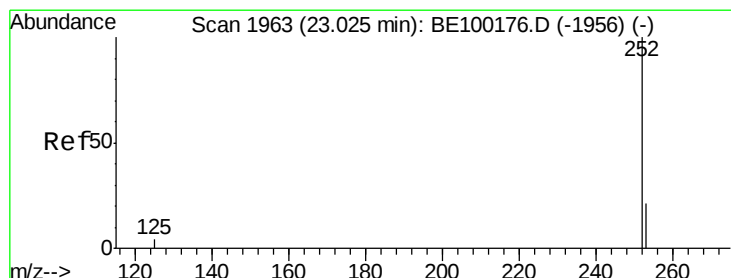
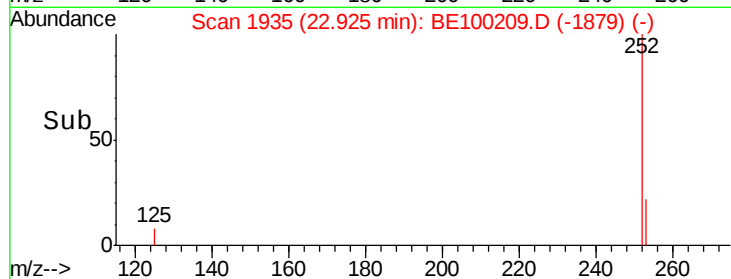
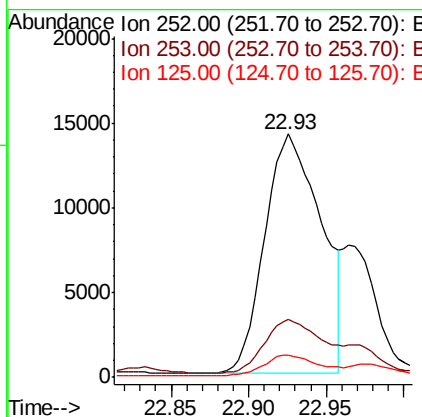
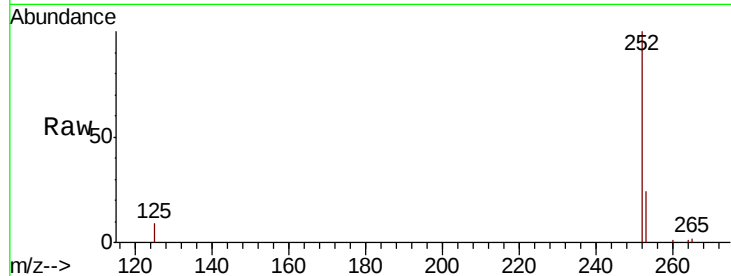
#35
Benzo(b)fluoranthene
Concen: 1.305 ng
RT: 22.93 min Scan# 1935
Delta R.T. -0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.9	28.3
125	9.1	6.2	9.4

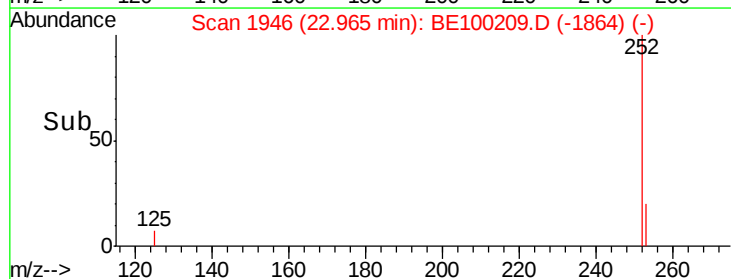
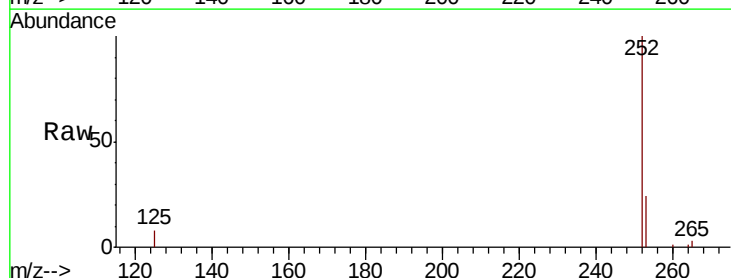
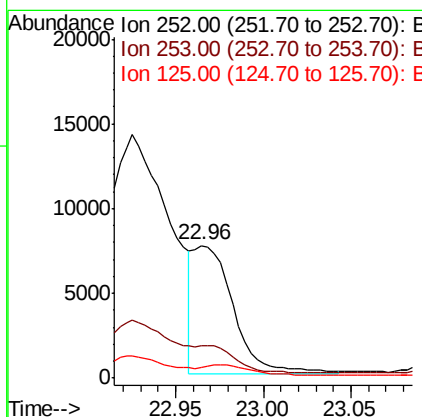
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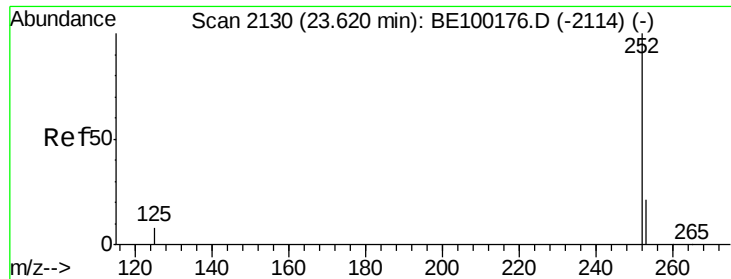
mohammad
7/1/2019 8:11:48 AM



#36
Benzo(k)fluoranthene
Concen: 0.371 ng m
RT: 22.96 min Scan# 1946
Delta R.T. -0.01 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.8	26.8
125	8.2	4.9	7.3





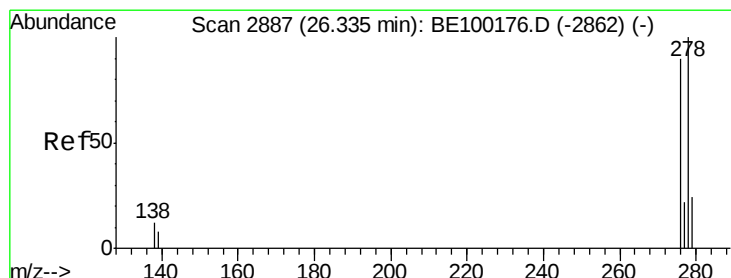
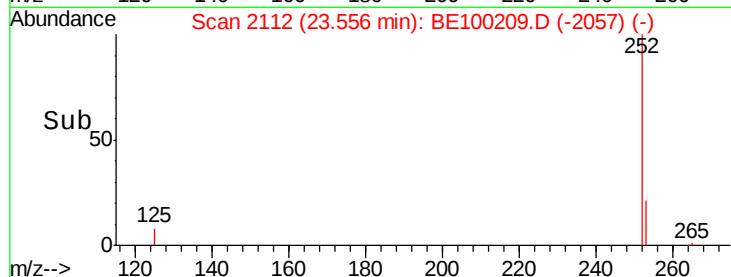
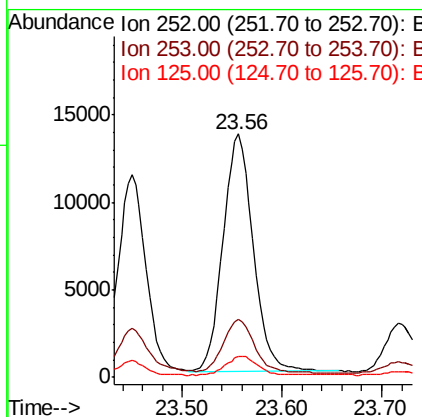
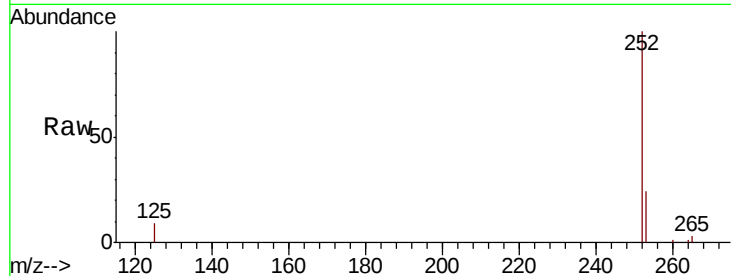
#37
Benzo(a)pyrene
Concen: 1.012 ng
RT: 23.56 min Scan# 2112
Delta R.T. -0.00 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Instrument :
BNA_E
ClientSampleId :
PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	19.3	28.9
125	8.7	7.3	10.9

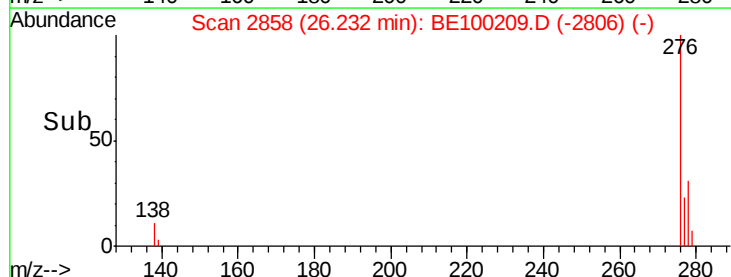
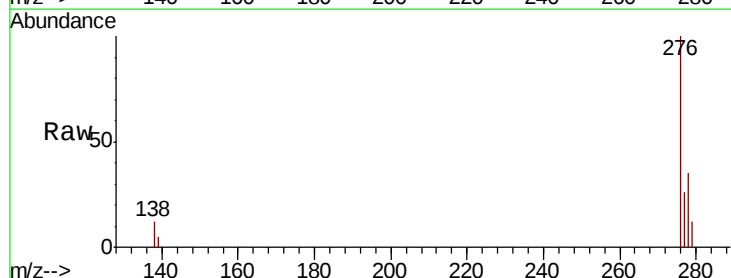
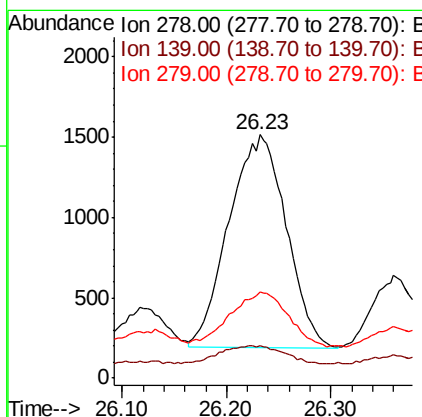
Manual Integrations
APPROVED

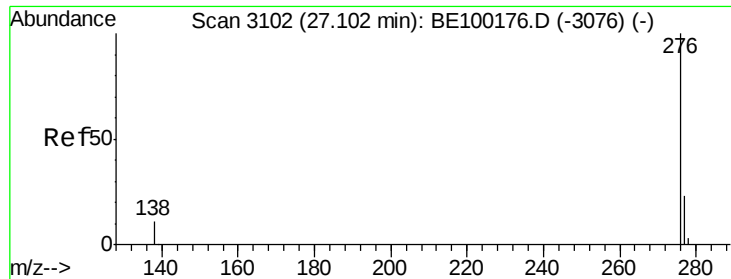
mohammad
7/1/2019 8:11:48 AM



#38
Dibenzo(a,h)anthracene
Concen: 0.167 ng
RT: 26.23 min Scan# 2858
Delta R.T. -0.01 min
Lab File: BE100209.D
Acq: 27 Jun 2019 17:53

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.3	8.2	12.4#
279	35.6	20.4	30.6#





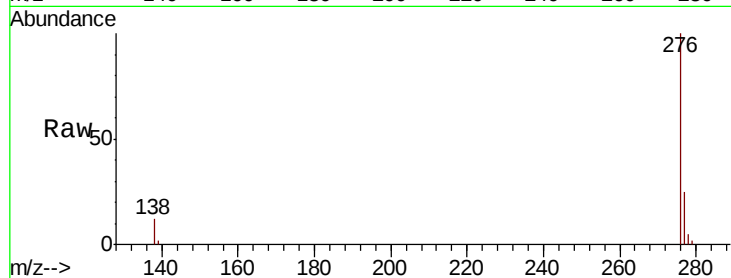
#39
 Benzo(a,h,i)perylene
 Concen: 0.668 ng
 RT: 27.00 min Scan# 3073
 Delta R.T. -0.00 min
 Lab File: BE100209.D
 Acq: 27 Jun 2019 17:53

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B040-061319

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.6	29.4
138	11.7	10.2	15.2

Manual Integrations
 APPROVED

mohammad
 7/1/2019 8:11:48 AM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

