

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101819\
 Data File : BE100654.D
 Acq On : 18 Oct 2019 10:33
 Operator : JU
 Sample : K4995-16 2X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW162-091819-2

Manual Integrations
 APPROVED

mohammad
 10/20/2019 8:05:02 PM

Quant Time: Oct 18 15:08:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 10 14:01:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	7580	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	32095	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	19594	0.40	ng	-0.02
19) Phenanthrene-d10	17.20	188	40788	0.40	ng	0.00
27) Chrysene-d12	21.37	240	45502	0.40	ng	0.00
34) Perylene-d12	23.85	264	49447	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.46	112	2681	0.11	ng	0.01
5) Phenol-d6	7.02	99	3805	0.12	ng	0.01
8) Nitrobenzene-d5	8.99	82	2828	0.14	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	5514	0.11	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	722	0.14	ng	-0.01
15) 2-Fluorobiphenyl	13.10	172	7708	0.11	ng	-0.02
25) Fluoranthene-d10	19.23	212	54076	0.10	ng	0.00
29) Terphenyl-d14	19.82	244	12436	0.13	ng	0.00

Target Compounds				Qvalue		
9) Naphthalene	10.68	128	75252	0.223	ng	99
12) 2-Methylnaphthalene	12.30	142	8913	0.155	ng	95
16) Acenaphthylene	14.20	152	88853	1.054	ng	99
17) Acenaphthene	14.54	154	9312	0.171	ng	91
18) Fluorene	15.50	166	24065	0.333	ng	# 86
22) Pentachlorophenol	16.85	266	235	0.037	ng	# 82
23) Phenanthrene	17.24	178	494108	4.404	ng	99
24) Anthracene	17.34	178	171395	1.646	ng	98
26) Fluoranthene	19.25	202	1182635	8.077	ng	99
28) Pvrene	19.62	202	1104449	8.688	ng	# 94
30) Benzo(a)anthracene	21.35	228	905723	6.102	ng	94
31) Chrysene	21.40	228	699481m	4.716	ng	
32) Bis(2-ethylhexyl)phthalate	21.29	149	27317	0.088	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.47	276	353136	1.937	ng	97
35) Benzo(b)fluoranthene	23.10	252	856192	5.938	ng	98
36) Benzo(k)fluoranthene	23.14	252	325169m	2.193	ng	
37) Benzo(a)pvrene	23.74	252	625612	4.661	ng	99
38) Dibenzo(a,h)anthracene	26.49	278	117278	0.845	ng	# 94
39) Benzo(g,h,i)perylene	27.27	276	305466	2.189	ng	99

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

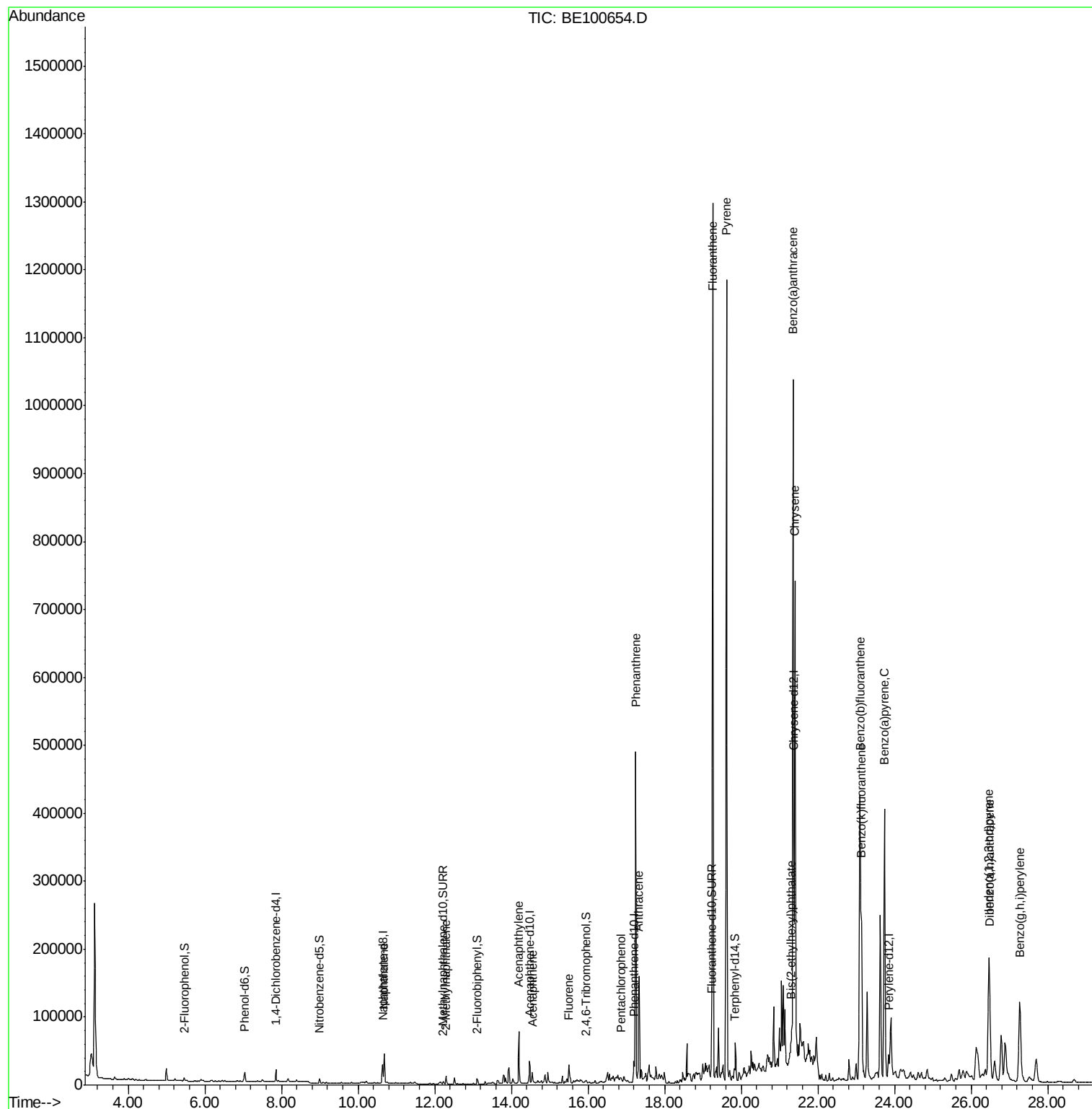
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101819\
Data File : BE100654.D
Acq On : 18 Oct 2019 10:33
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Sample : K4995-16 2X
Misc :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
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QLast Update : Thu Oct 10 14:01:52 2019
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#1

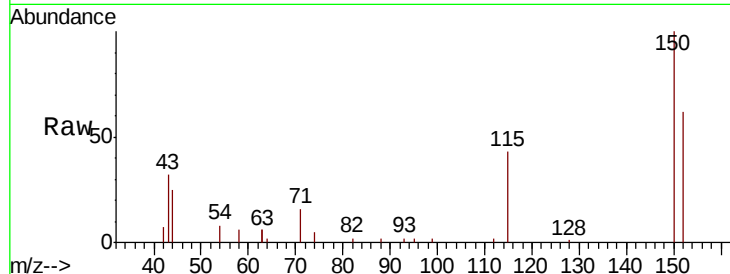
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.85 min Scan# 433
Delta R.T. -0.01 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.8	120.7	181.1
115	69.3	48.0	72.0

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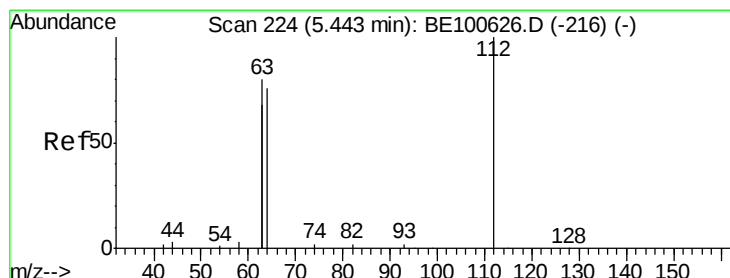
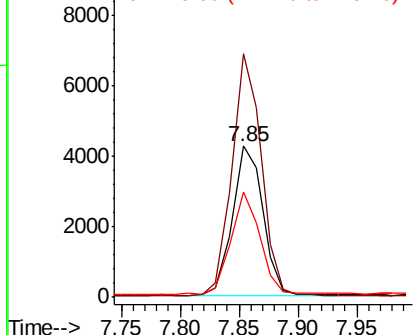
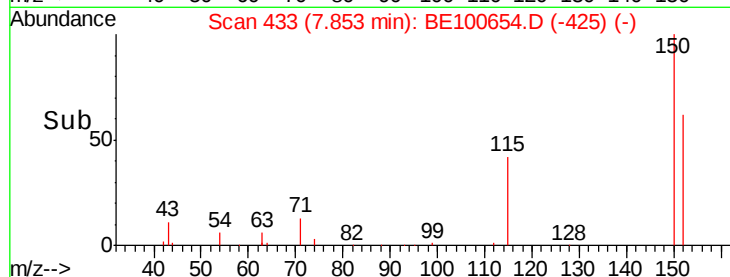


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

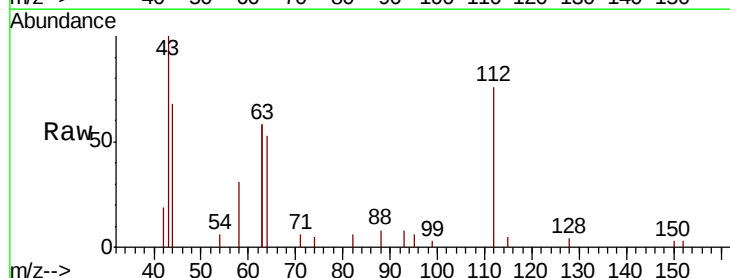
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.115 ng
RT: 5.46 min Scan# 225
Delta R.T. 0.01 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.2	58.9	88.3
63	144.9	118.3	177.5

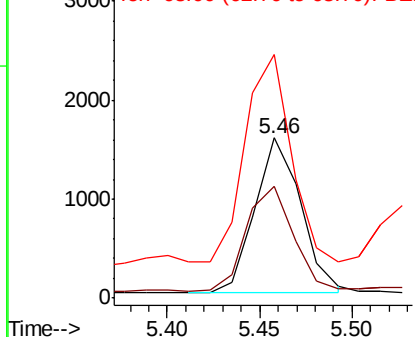
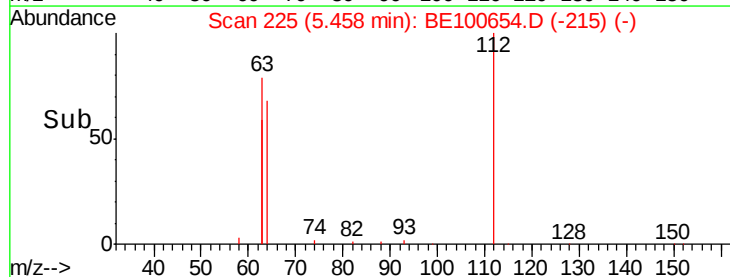


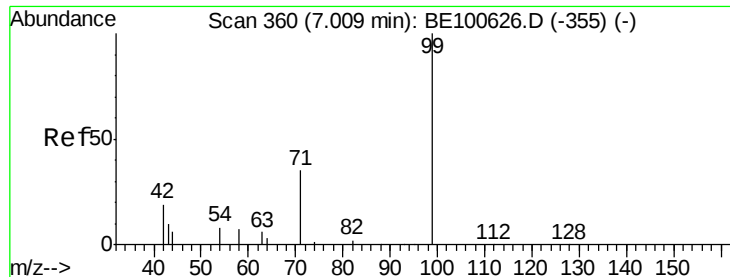
Abundance

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: 0.115 ng

RT: 7.02 min Scan# 361

Delta R.T. 0.01 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Instrument :

BNA_E

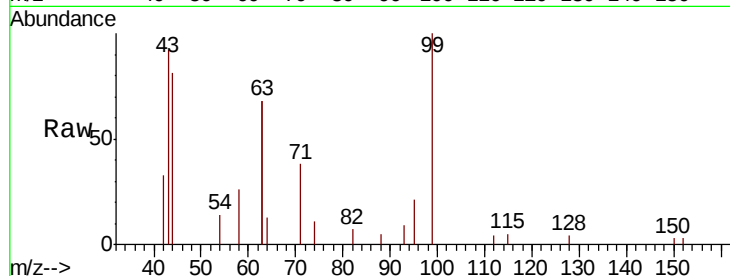
ClientSampleId :

EXT-SW162-091819-2

Tot Ion:	99	Resp:	3805
Ion	Ratio	Lower	Upper
99	100		
42	38.5	19.4	29.2#
71	44.1	26.9	40.3#

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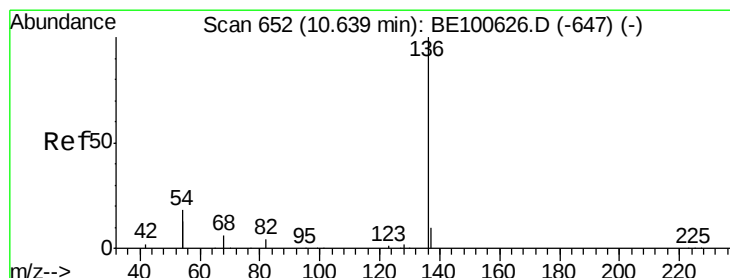
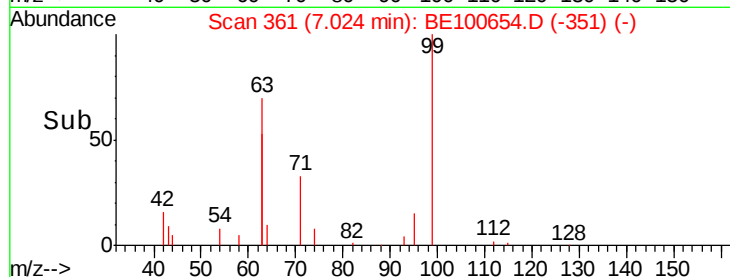
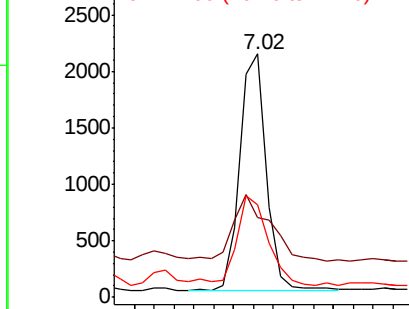


Abundance

Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

Delta R.T. 0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Tgt Ion:	136	Resp:	32095
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.6	13.0
54	26.7	28.7	43.1#
68	5.9	5.9	8.9#

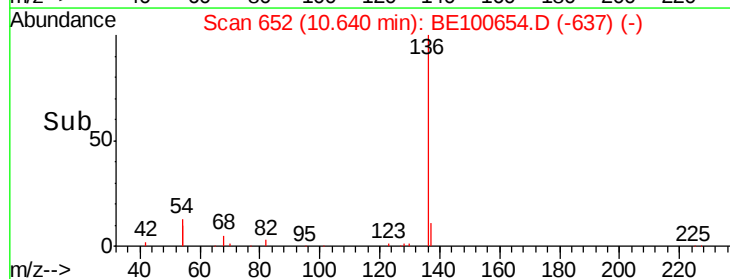
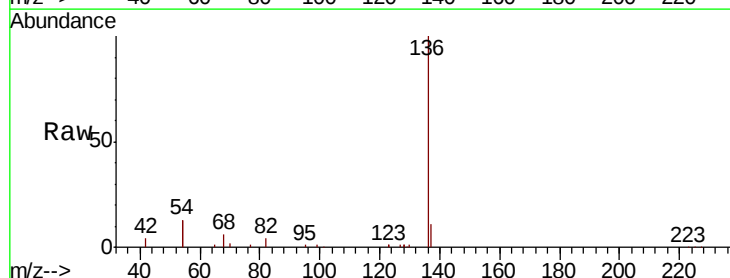
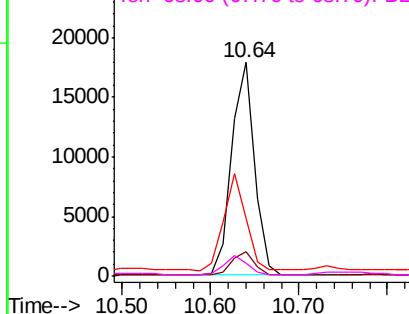
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1





#8

Nitrobenzene-d5

Concen: 0.142 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Instrument :

BNA_E

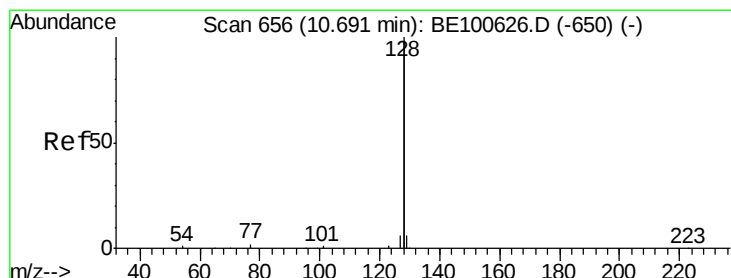
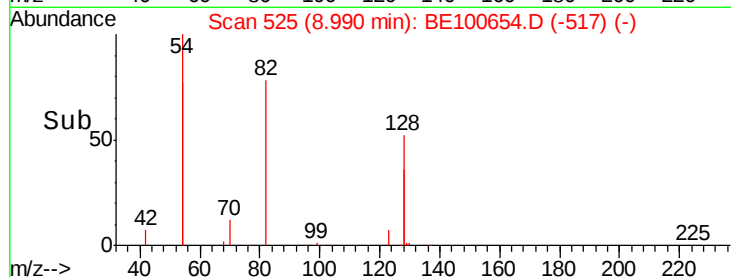
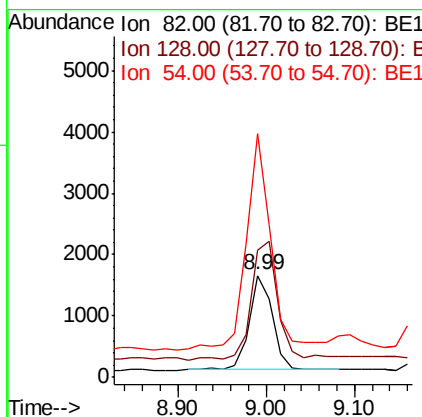
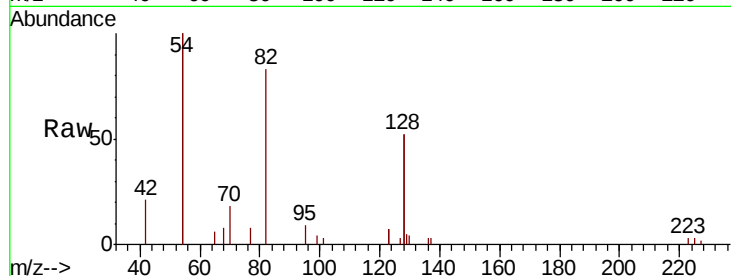
ClientSampleId :

EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
82	100		
128	124.5	90.7	136.1
54	239.6	210.9	316.3

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#9

Naphthalene

Concen: 0.223 ng

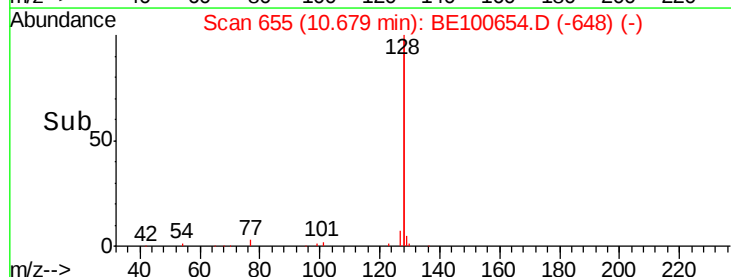
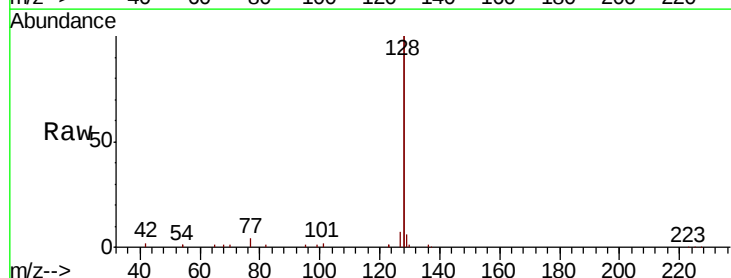
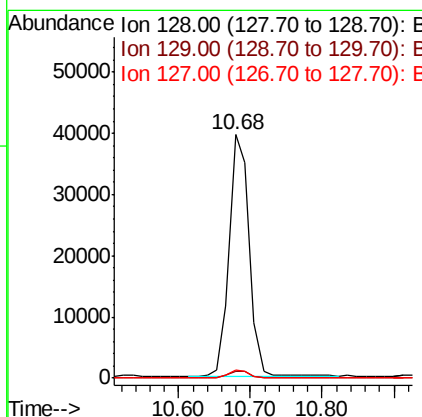
RT: 10.68 min Scan# 655

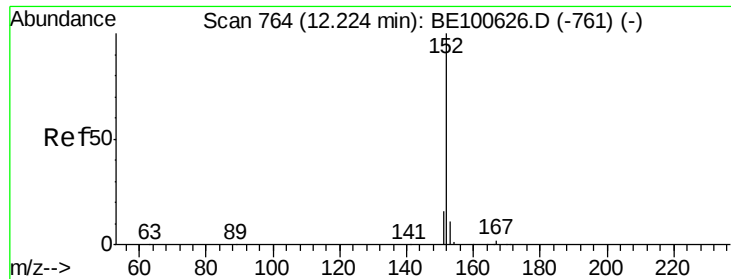
Delta R.T. -0.01 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
128	100		
129	2.9	2.4	3.6
127	3.5	2.6	3.8





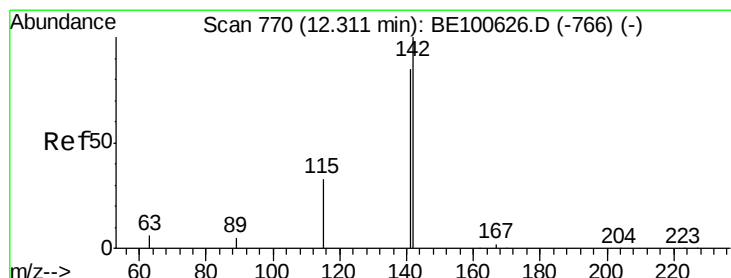
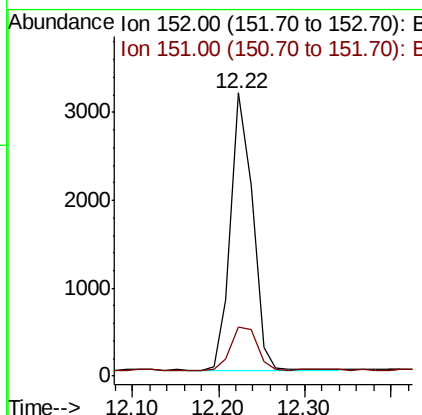
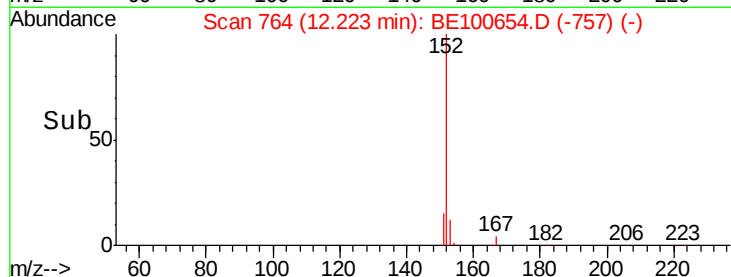
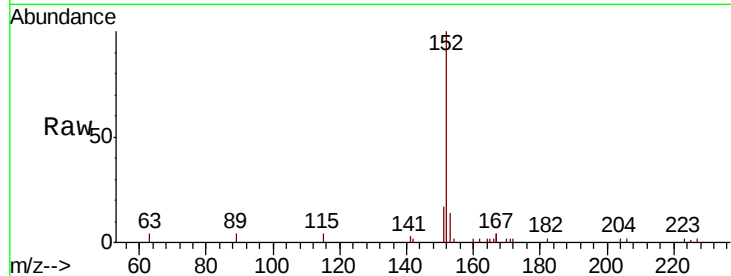
#11
2-Methylnaphthalene-d10
Concen: 0.109 ng
RT: 12.22 min Scan# 764
Delta R.T. -0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.2	22.8

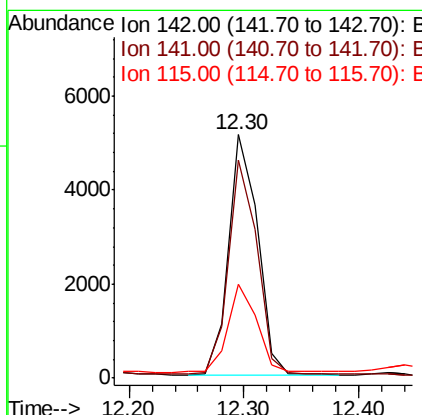
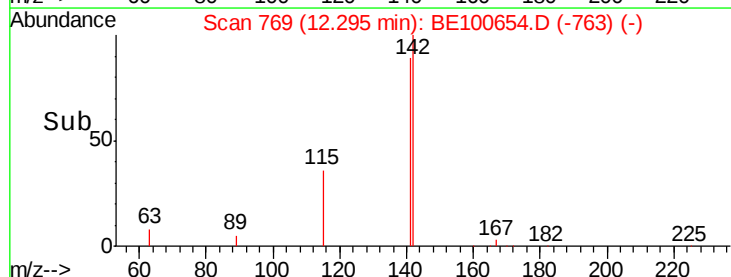
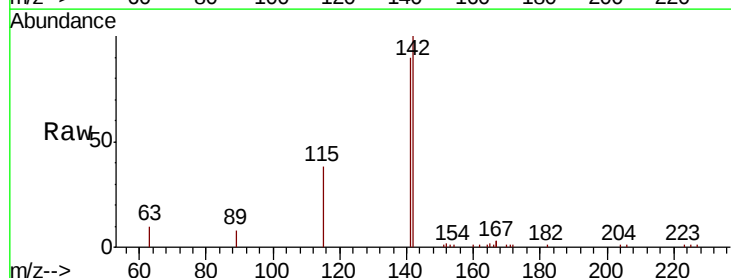
Manual Integrations
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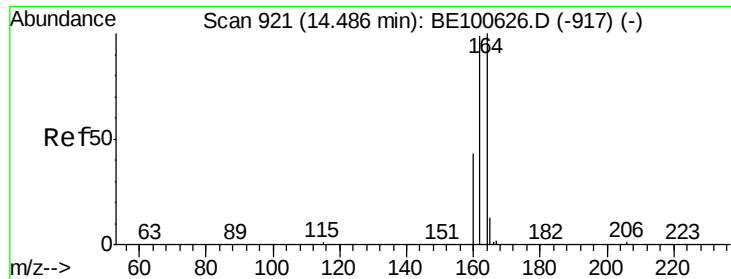
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#12
2-Methylnaphthalene
Concen: 0.155 ng
RT: 12.30 min Scan# 769
Delta R.T. -0.02 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	68.3	102.5
115	38.5	27.5	41.3





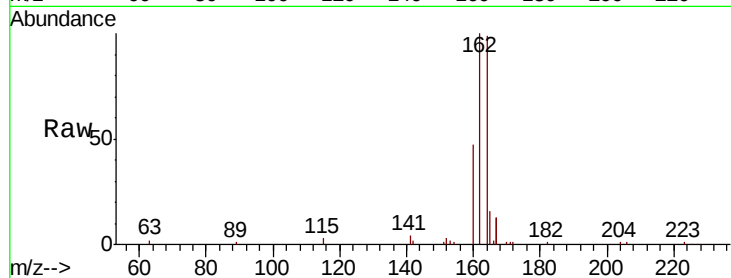
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.47 min Scan# 920
Delta R.T. -0.02 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.0	79.1	118.7
160	47.5	34.7	52.1

Manual Integrations
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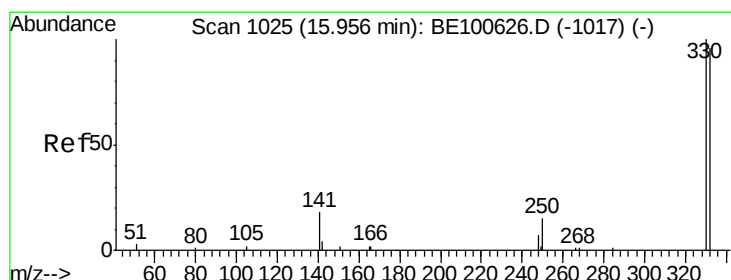
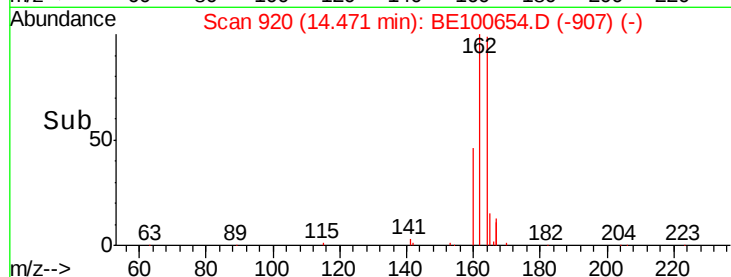
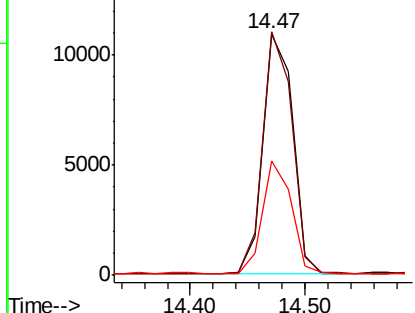


Abundance

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: 0.139 ng
RT: 15.94 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

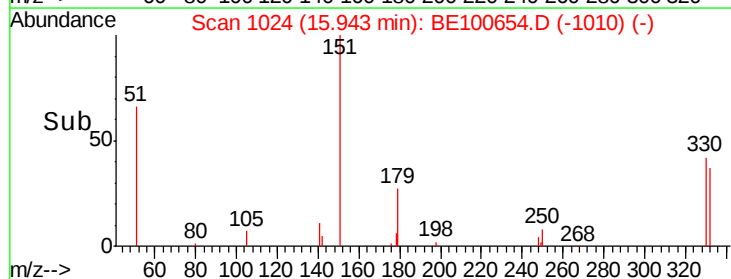
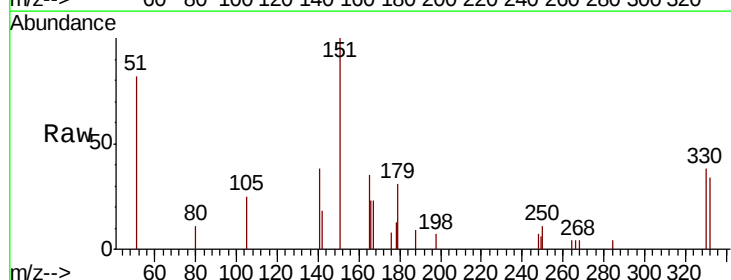
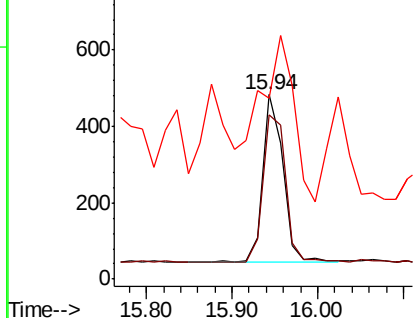
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	75.2	112.8
141	169.3	37.5	56.3#

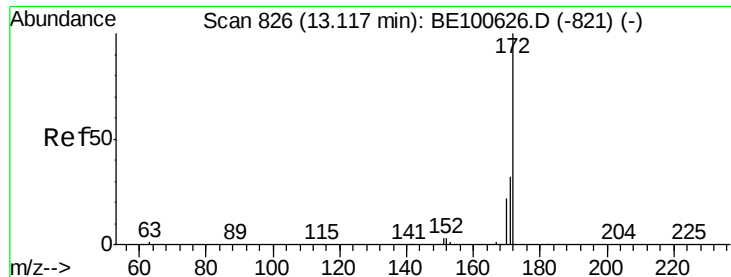
Abundance

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





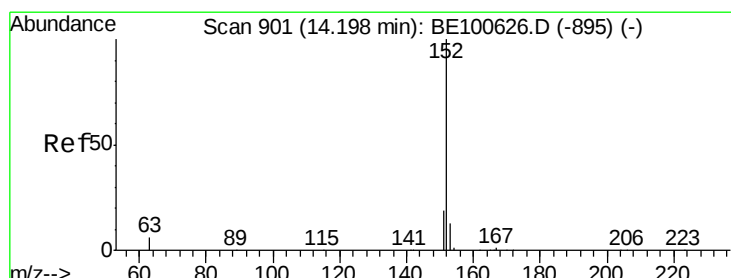
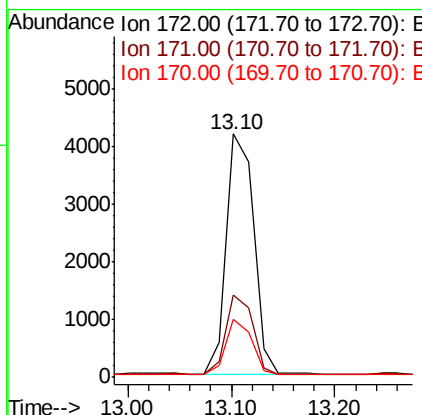
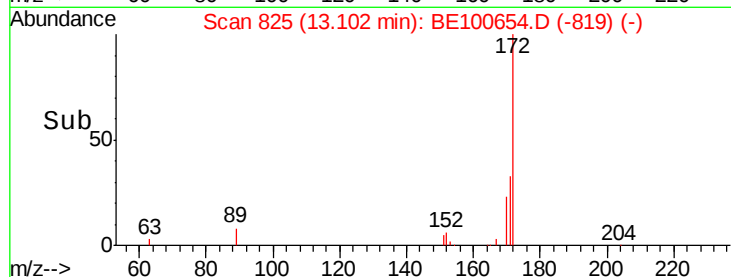
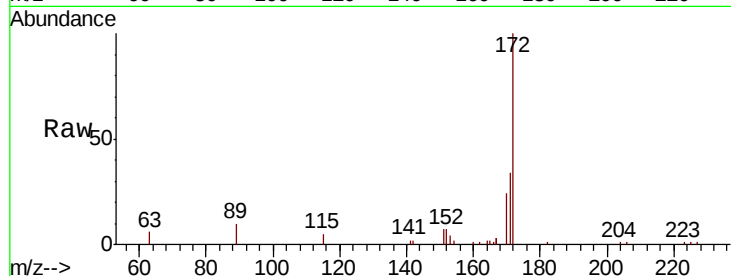
#15
2-Fluorobiphenyl
Concen: 0.108 ng
RT: 13.10 min Scan# 825
Delta R.T. -0.02 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.9	26.2	39.4
170	23.7	17.5	26.3

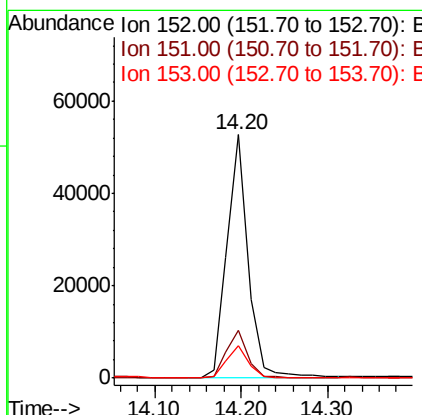
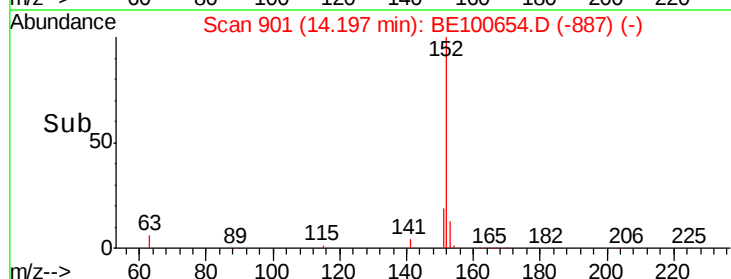
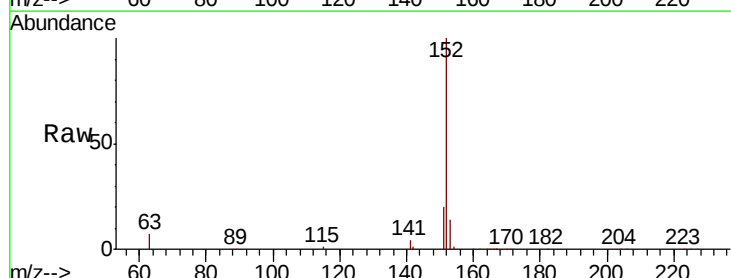
Manual Integrations
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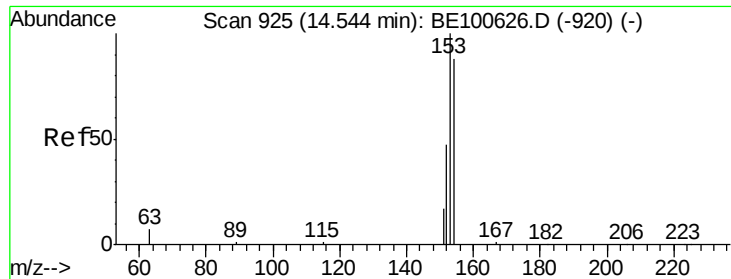
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#16
Acenaphthylene
Concen: 1.054 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.6	23.4
153	13.6	10.5	15.7





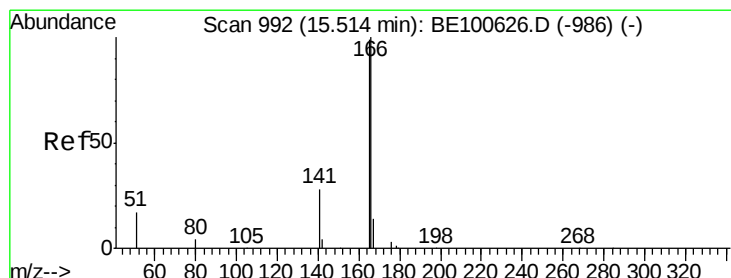
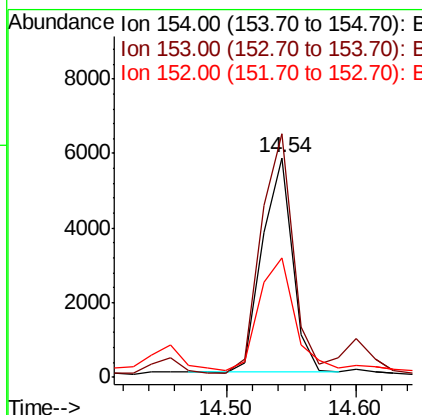
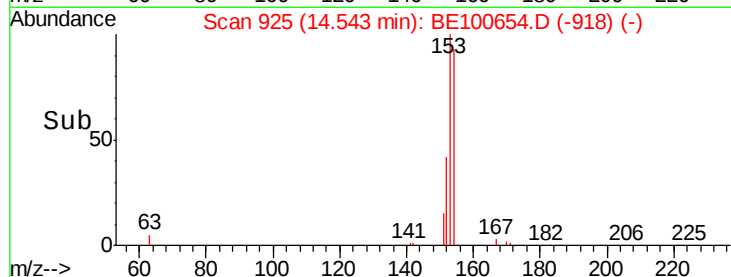
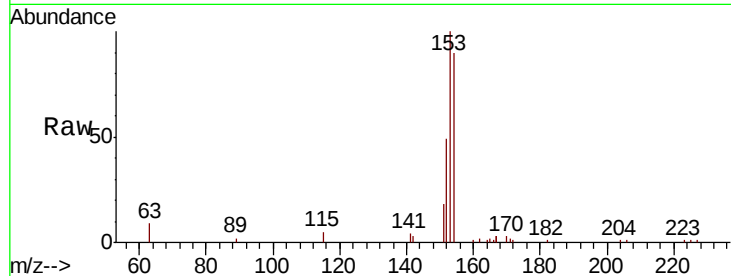
#17
Acenaphthene
Concen: 0.171 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
154	100		
153	123.1	91.4	137.2
152	62.9	44.0	66.0

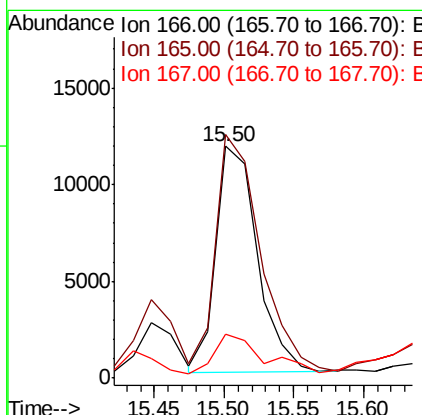
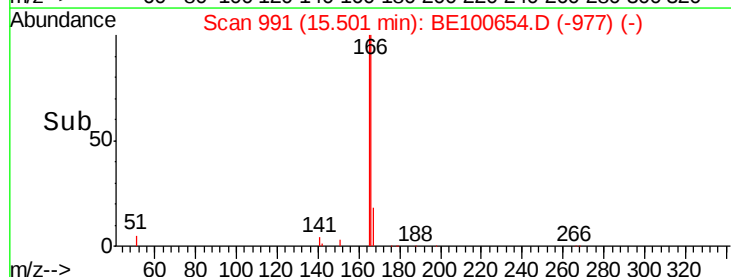
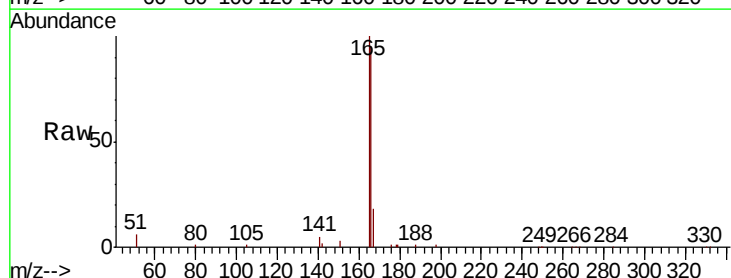
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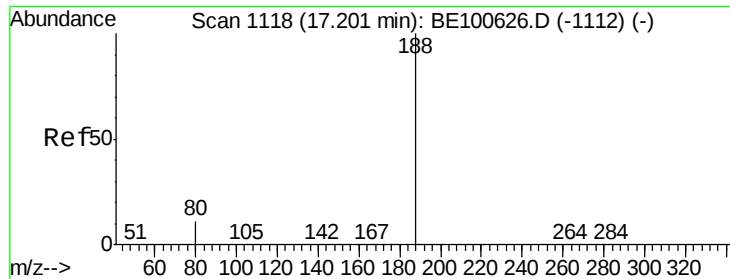
mohammad
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#18
Fluorene
Concen: 0.333 ng
RT: 15.50 min Scan# 991
Delta R.T. -0.01 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
166	100		
165	112.3	78.9	118.3
167	20.9	10.9	16.3#





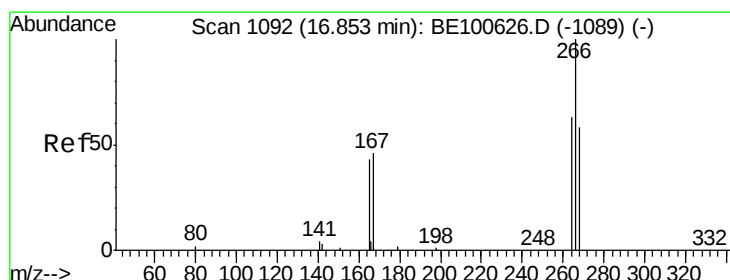
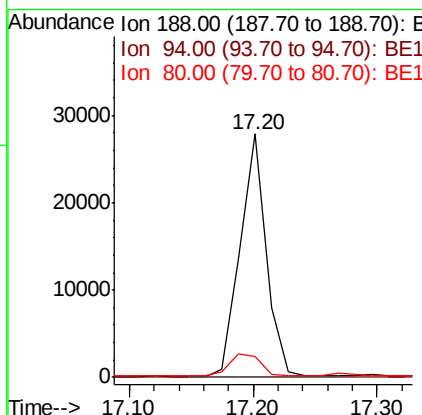
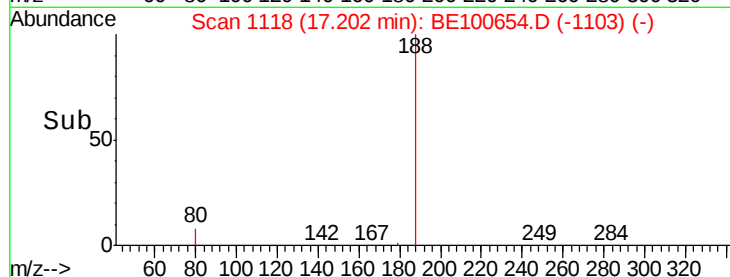
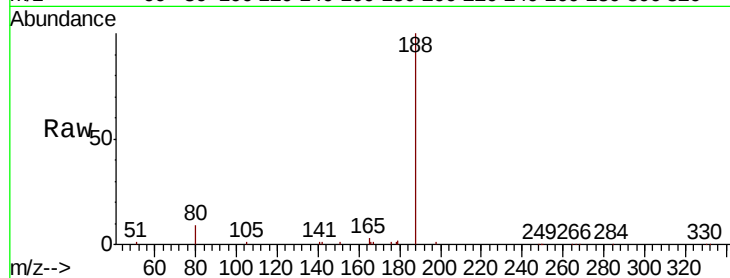
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. 0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	9.4	14.2#

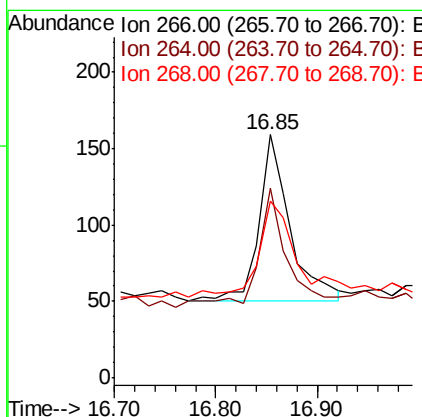
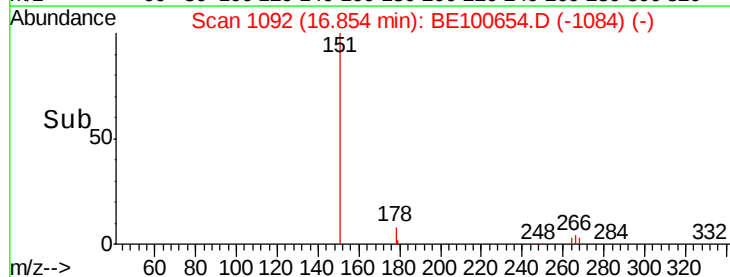
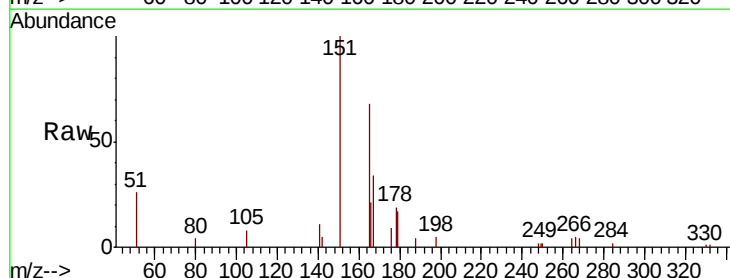
Manual Integrations
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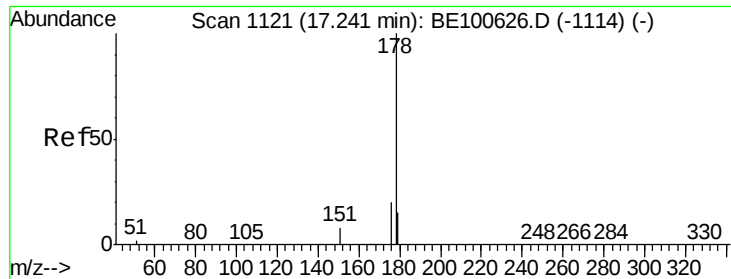
mohammad
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#22
Pentachlorophenol
Concen: 0.037 ng
RT: 16.85 min Scan# 1092
Delta R.T. 0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Resp Lower	Upper
266	100		
264	78.0	50.7	76.1#
268	73.0	48.5	72.7#





#23

Phenanthrene

Concen: 4.404 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Instrument :

BNA_E

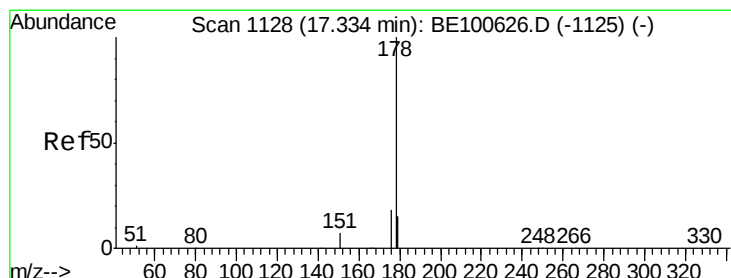
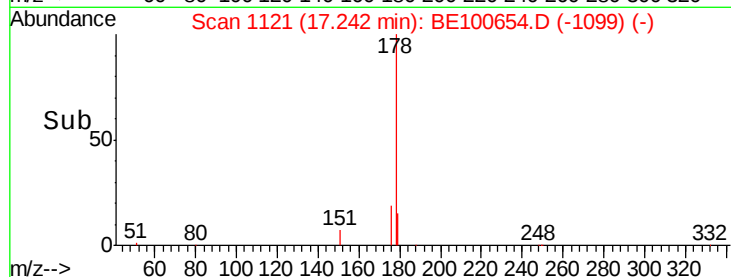
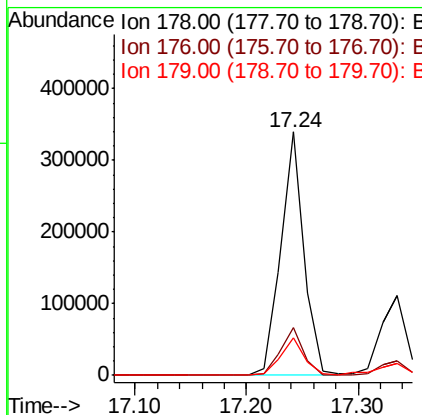
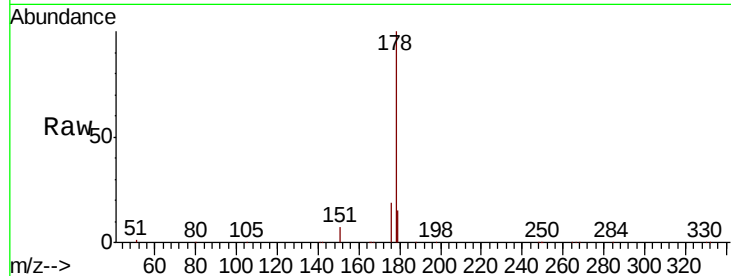
ClientSampleId :

EXT-SW162-091819-2

Tot Ion:	178	Resp:	494108
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.6	23.4
179	15.8	12.4	18.6

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#24

Anthracene

Concen: 1.646 ng

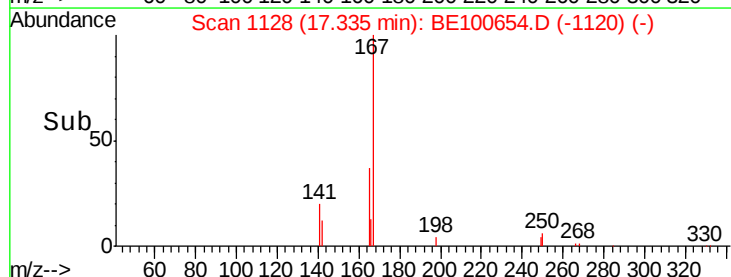
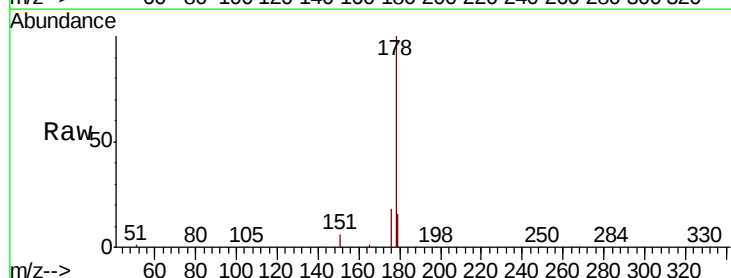
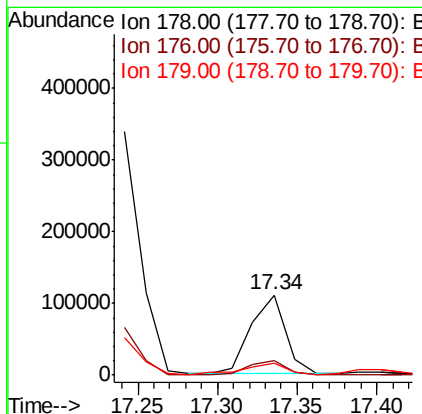
RT: 17.34 min Scan# 1128

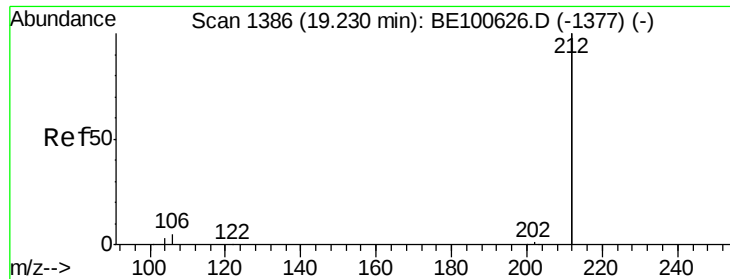
Delta R.T. 0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Tgt Ion:	178	Resp:	171395
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.5	21.7
179	17.1	12.4	18.6





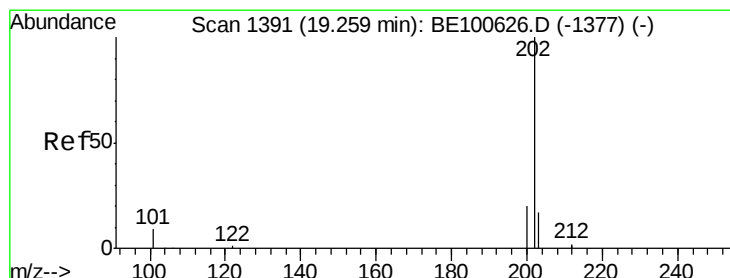
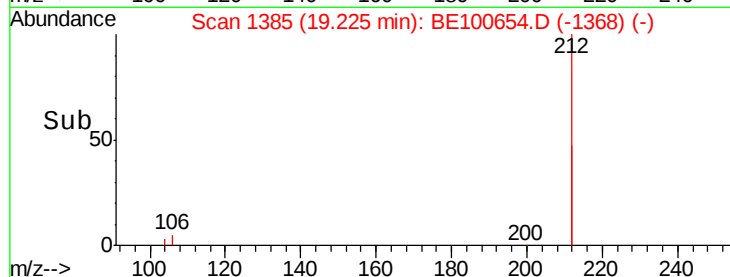
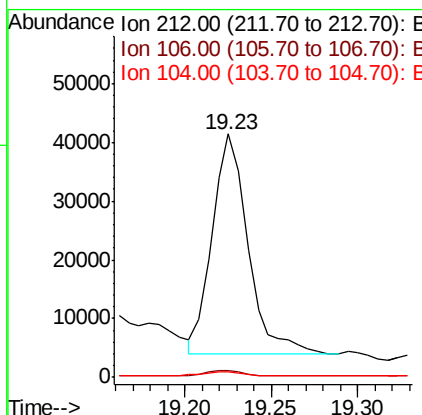
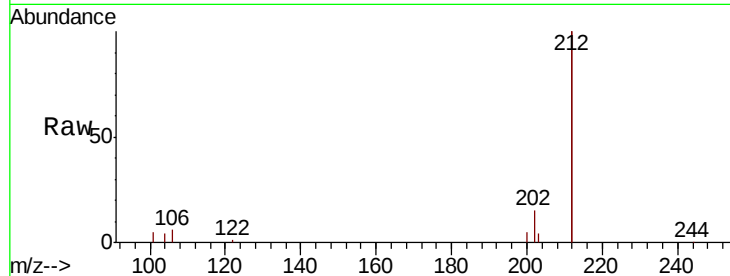
#25
Fluoranthene-d10
Concen: 0.103 ng
RT: 19.23 min Scan# 1385
Delta R.T. -0.01 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
212	100		
106	2.7	2.2	3.4
104	2.1	1.3	1.9

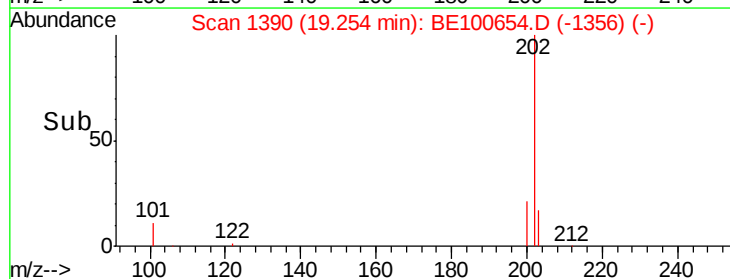
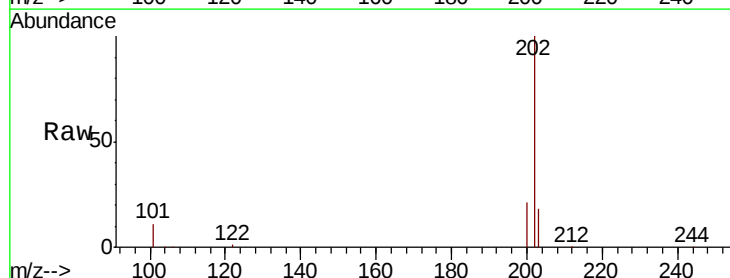
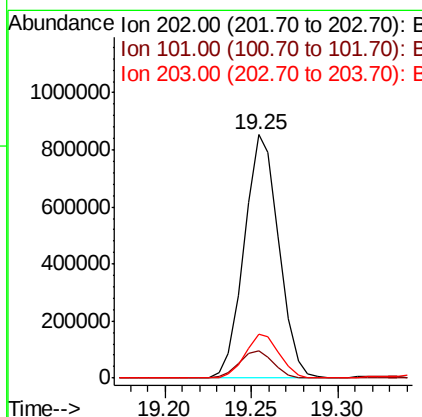
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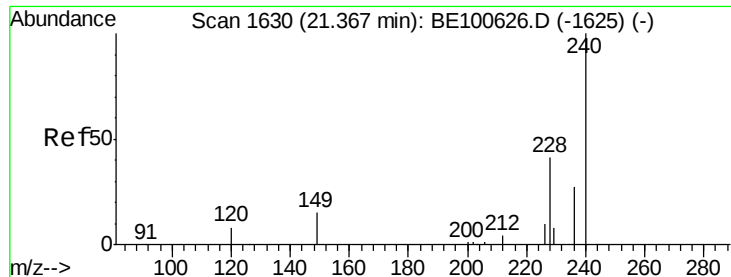
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#26
Fluoranthene
Concen: 8.077 ng
RT: 19.25 min Scan# 1390
Delta R.T. -0.01 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.4	12.6
203	17.9	13.8	20.6





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Instrument :

BNA_E

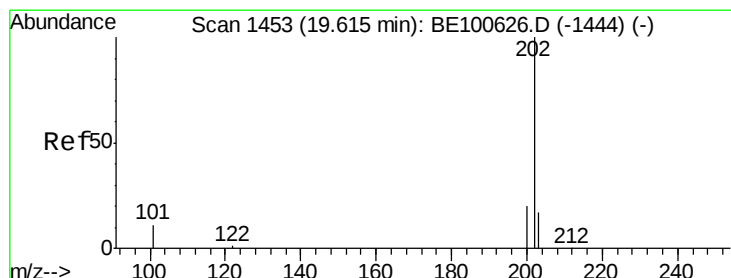
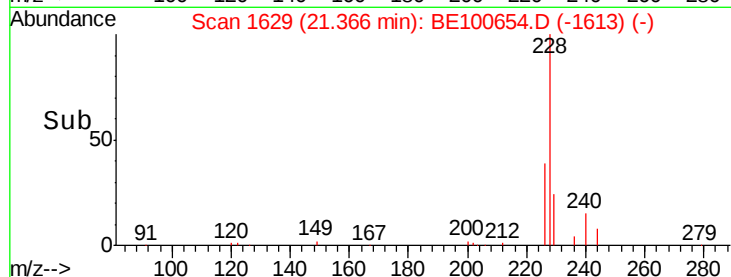
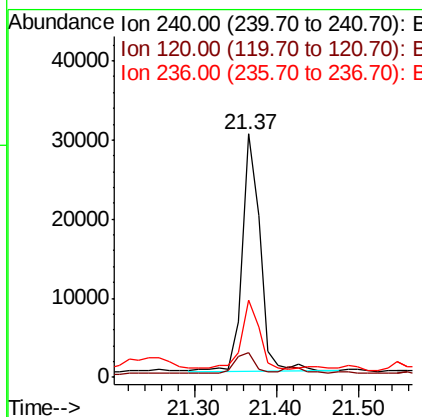
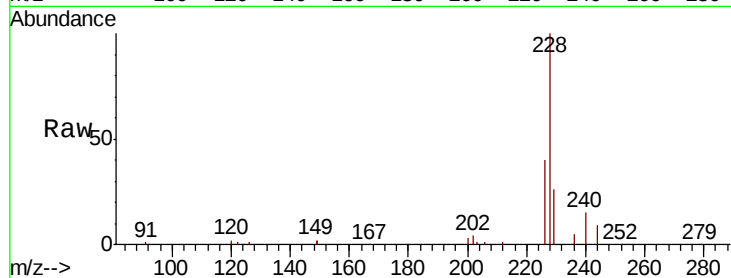
ClientSampleId :

EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.0	7.4	11.0
236	31.5	21.7	32.5

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#28

Pyrene

Concen: 8.688 ng

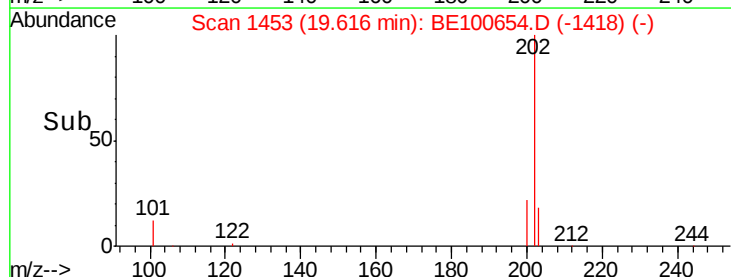
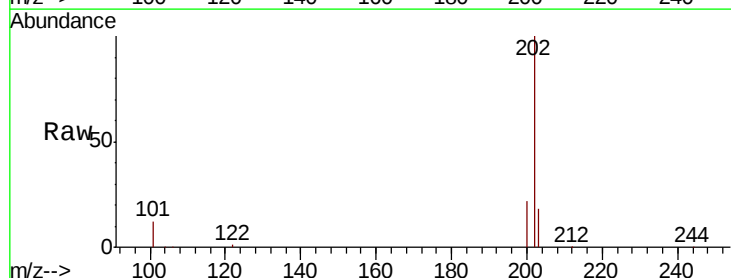
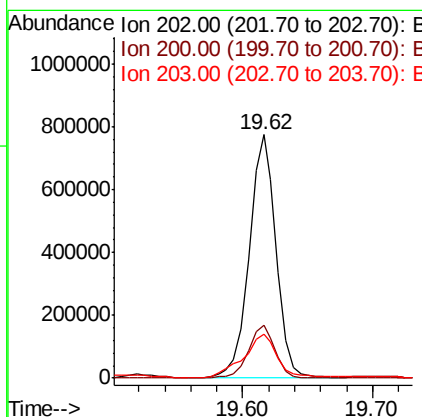
RT: 19.62 min Scan# 1453

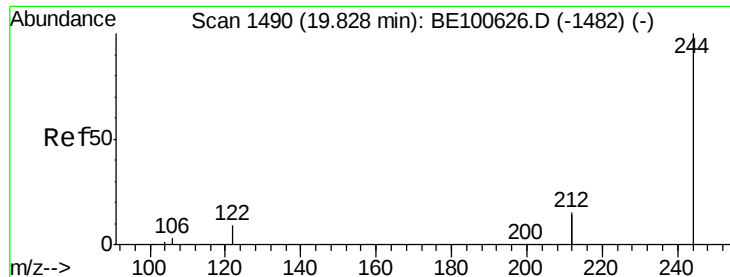
Delta R.T. 0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.6	24.8
203	22.7	13.9	20.9





#29

Terphenyl-d14

Concen: 0.125 ng

RT: 19.82 min Scan# 1489

Delta R.T. -0.01 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Instrument :

BNA_E

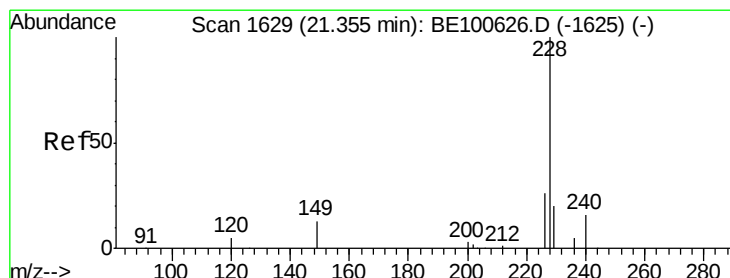
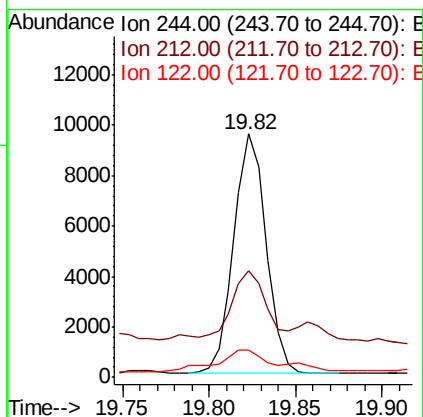
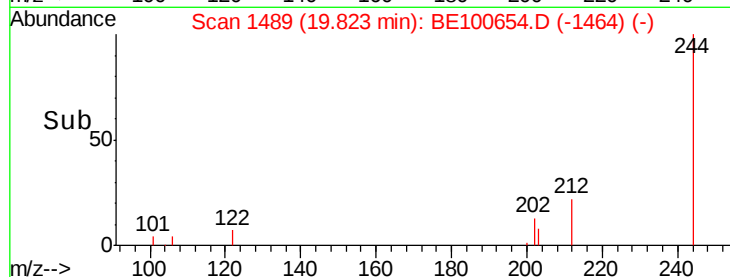
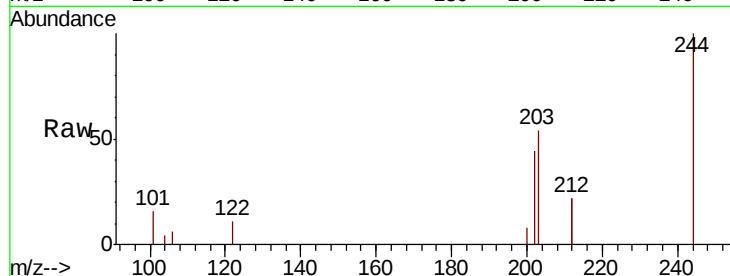
ClientSampleId :

EXT-SW162-091819-2

Tot Ion:	244	Resp:	12436
Ion Ratio	Lower	Upper	
244	100		
212	43.6	23.9	35.9#
122	11.3	7.7	11.5

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#30

Benzo(a)anthracene

Concen: 6.102 ng

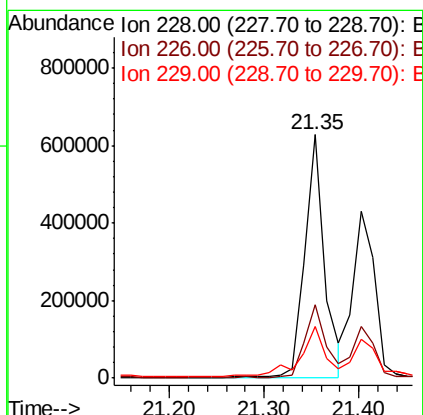
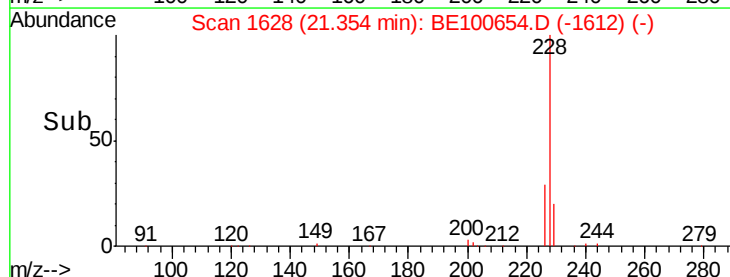
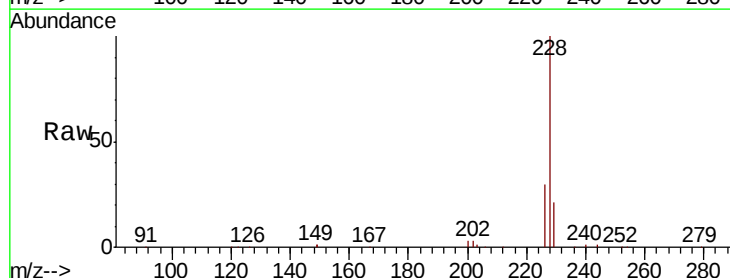
RT: 21.35 min Scan# 1628

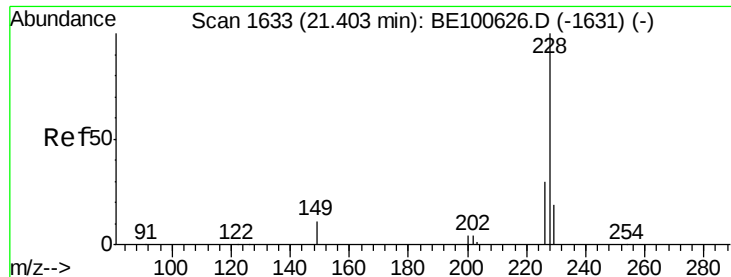
Delta R.T. -0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Tgt Ion:	228	Resp:	905723
Ion Ratio	Lower	Upper	
228	100		
226	29.9	21.0	31.6
229	21.5	15.8	23.8





#31

Chrysene

Concen: 4.716 ng/mL

RT: 21.40 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Instrument :

BNA_E

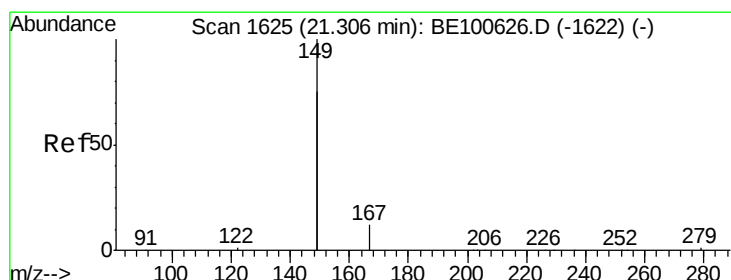
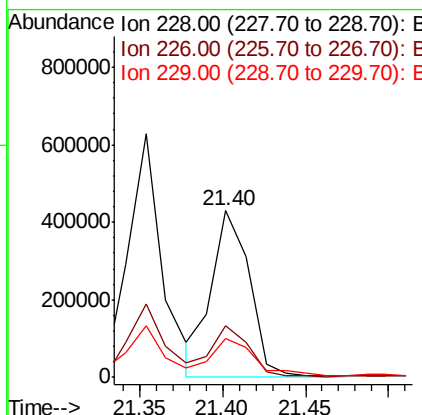
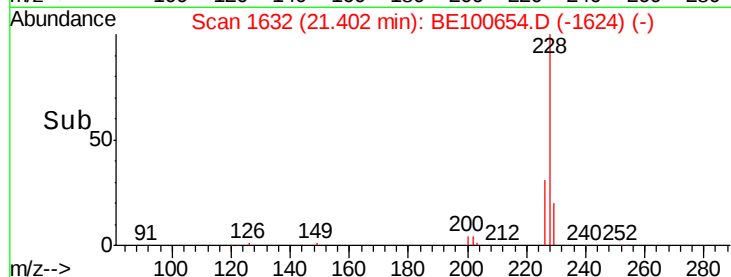
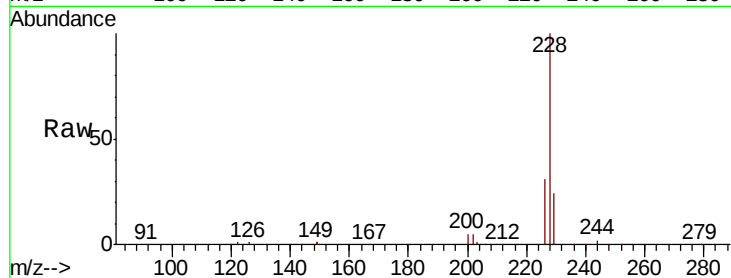
ClientSampleId :

EXT-SW162-091819-2

Tot Ion:	228	Resp:	699481
Ion Ratio	Lower	Upper	
228	100		
226	31.4	24.5	36.7
229	23.6	15.6	23.4

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.088 ng/mL

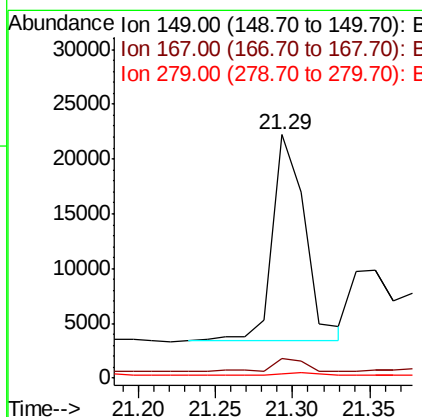
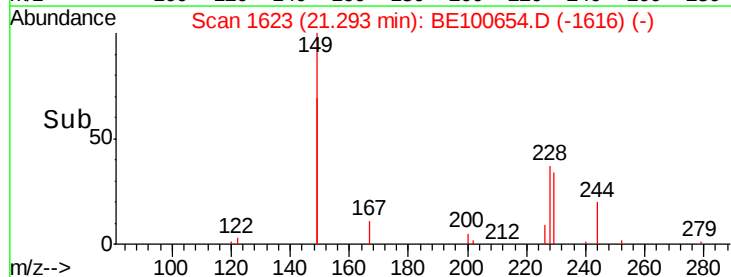
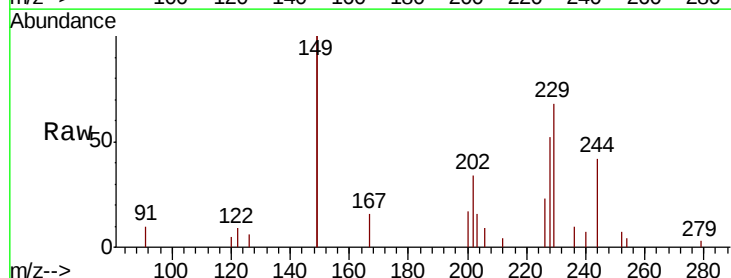
RT: 21.29 min Scan# 1623

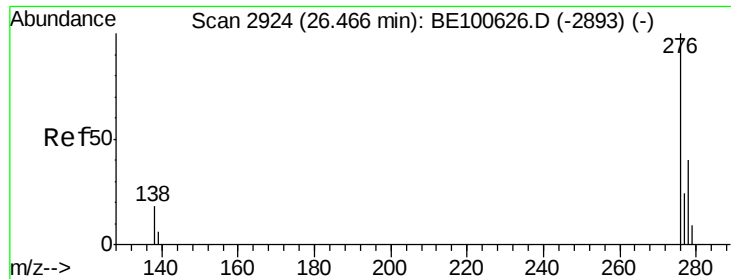
Delta R.T. -0.01 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Tgt Ion:	149	Resp:	27317
Ion Ratio	Lower	Upper	
149	100		
167	7.0	5.4	8.2
279	1.3	1.5	2.3





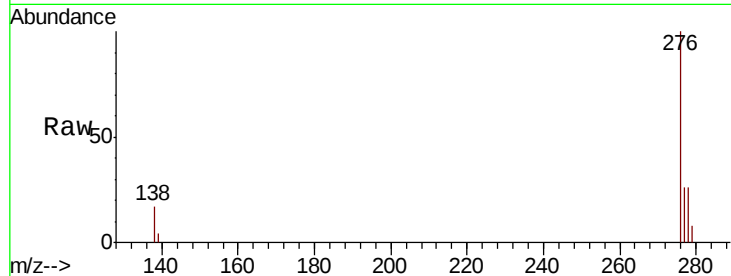
#33
Indeno(1,2,3-cd)pyrene
Concen: 1.937 ng
RT: 26.47 min Scan# 2923
Delta R.T. 0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.4	16.0	24.0
277	25.4	19.7	29.5

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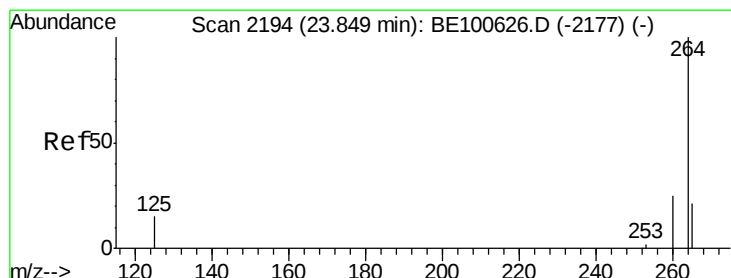
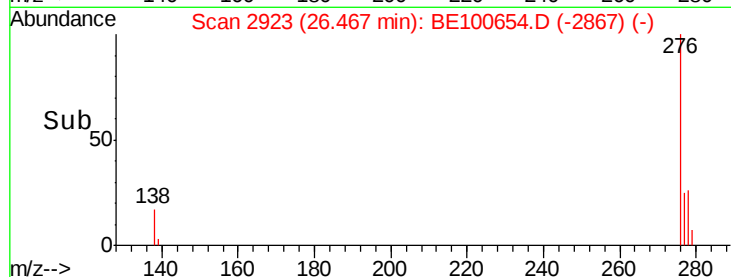
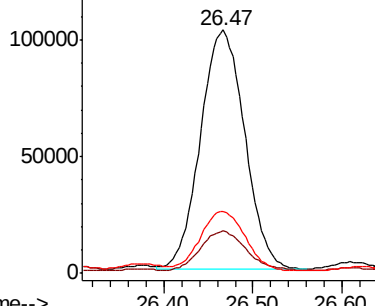


Abundance

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: 23.85 min Scan# 2194
Delta R.T. 0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

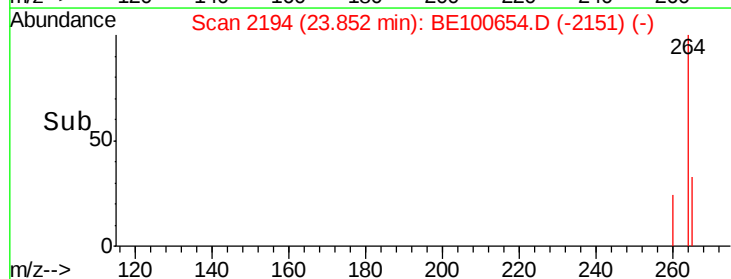
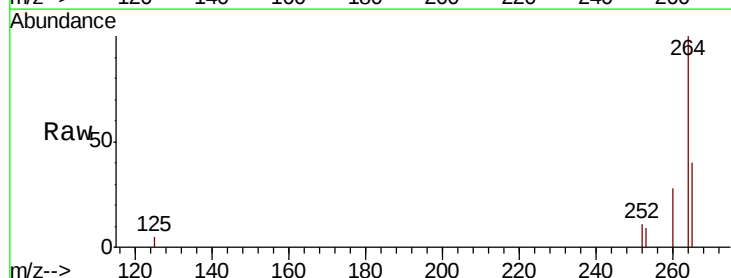
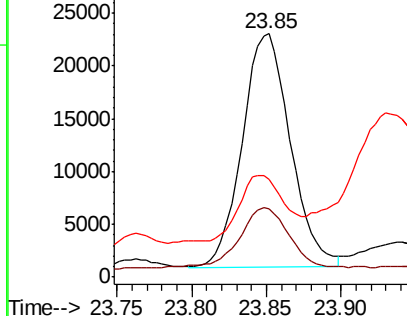
Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.3	19.9	29.9
265	40.0	20.0	30.0#

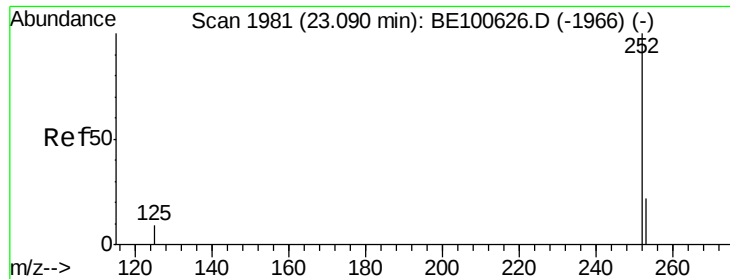
Abundance

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





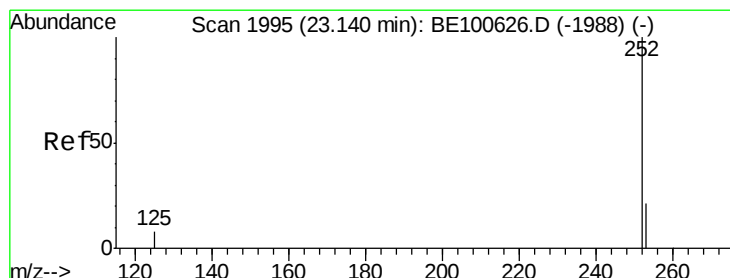
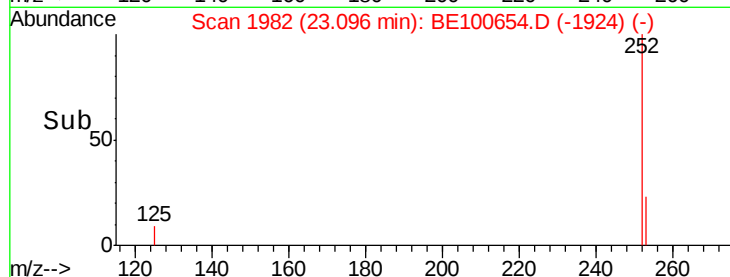
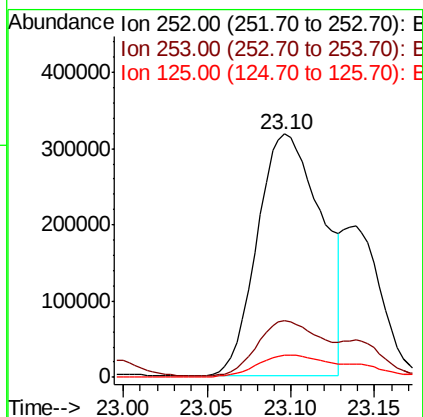
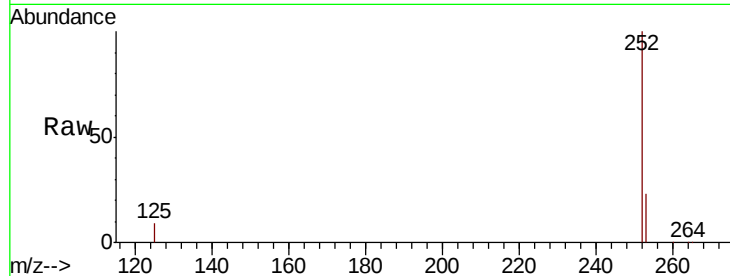
#35
Benzo(b)fluoranthene
Concen: 5.938 ng
RT: 23.10 min Scan# 1982
Delta R.T. 0.01 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.8
125	9.1	7.6	11.4

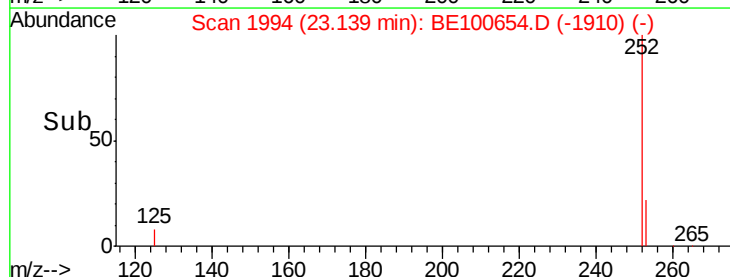
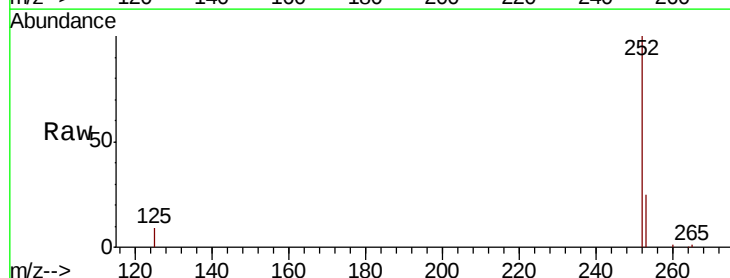
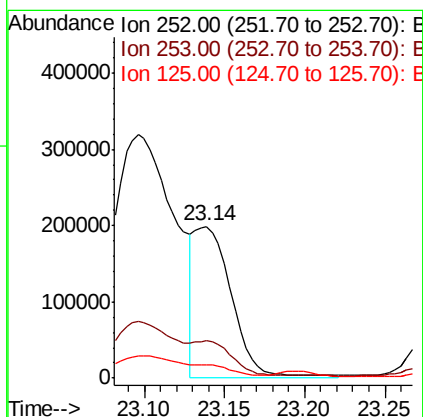
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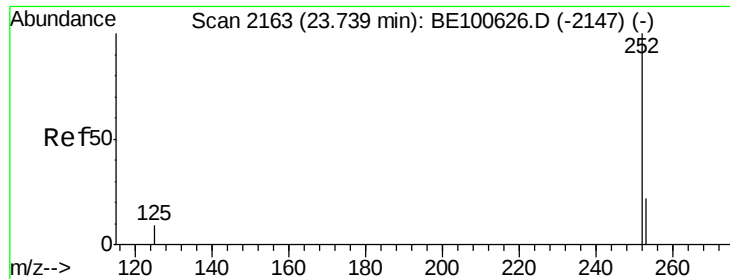
mohammad
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#36
Benzo(k)fluoranthene
Concen: 2.193 ng m
RT: 23.14 min Scan# 1994
Delta R.T. -0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.8	26.6
125	8.9	7.6	11.4





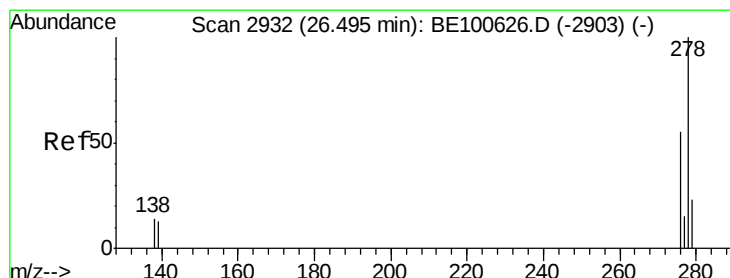
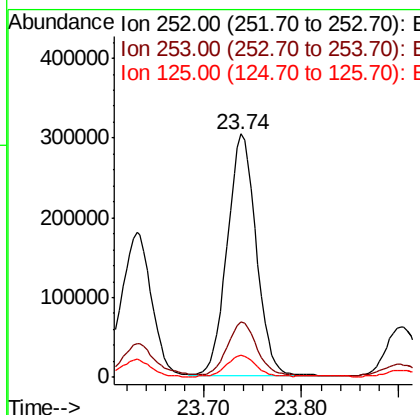
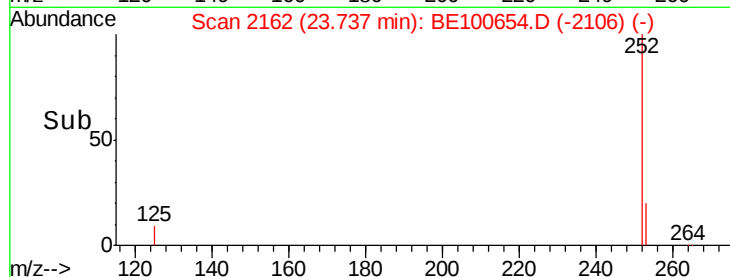
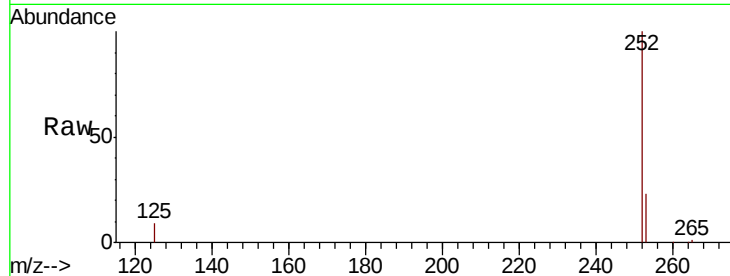
#37
Benzo(a)pyrene
Concen: 4.661 ng
RT: 23.74 min Scan# 2162
Delta R.T. -0.00 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Instrument :
BNA_E
ClientSampleId :
EXT-SW162-091819-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	9.2	8.1	12.1

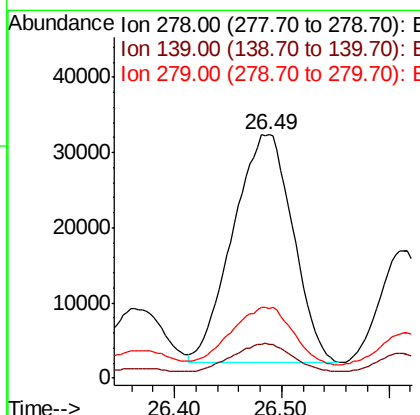
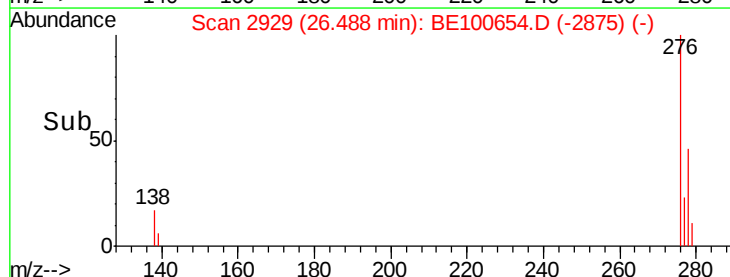
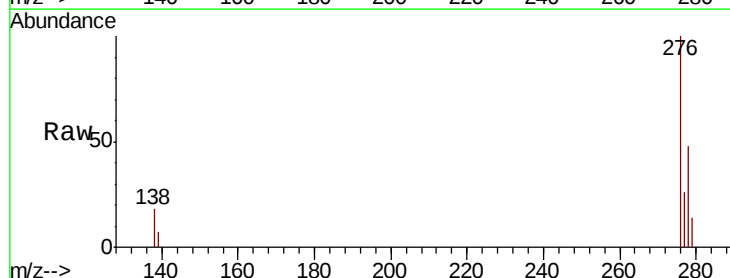
Manual Integrations
APPROVED

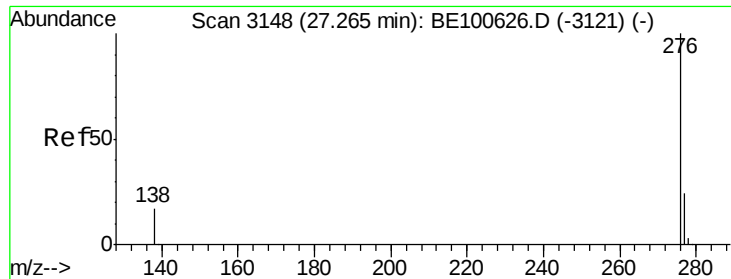
mohammad
10/20/2019 8:05:02 PM



#38
Dibenzo(a,h)anthracene
Concen: 0.845 ng
RT: 26.49 min Scan# 2929
Delta R.T. -0.01 min
Lab File: BE100654.D
Acq: 18 Oct 2019 10:33

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.9	11.2	16.8
279	28.7	19.0	28.6#





#39

Benzo(a,h,i)perylene

Concen: 2.189 ng

RT: 27.27 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BE100654.D

Acq: 18 Oct 2019 10:33

Instrument :

BNA_E

ClientSampleId :

EXT-SW162-091819-2

Tot Ion:	276	Resp:	305466
Ion Ratio	Lower	Upper	
276	100		
277	24.5	19.3	28.9
138	17.7	14.5	21.7

Manual Integrations
APPROVED

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