

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE110819\
 Data File : BE100713.D
 Acq On : 8 Nov 2019 12:01
 Operator : JU
 Sample : K5725-02DL 25X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SO-2DL

Manual Integrations
 APPROVED

mohammad
 11/11/2019 8:09:44 AM

Quant Time: Nov 08 13:12:24 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Oct 23 16:49:33 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	2052	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	9701	0.40	ng	0.01
13) Acenaphthene-d10	14.49	164	6560	0.40	ng	0.01
19) Phenanthrene-d10	17.20	188	14361	0.40	ng	0.00
27) Chrysene-d12	21.37	240	15793	0.40	ng	0.01
34) Perylene-d12	23.84	264	17936	0.40	ng	0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.46	112	91	0.01	ng	0.01
5) Phenol-d6	7.02	99	131	0.01	ng	0.01
8) Nitrobenzene-d5	9.00	82	86	0.01	ng	0.01
11) 2-Methylnaphthalene-d10	12.22	152	196	0.01	ng	0.00
14) 2,4,6-Tribromophenol	15.96	330	6	0.00	ng	0.01
15) 2-Fluorobiphenyl	13.12	172	232	0.01	ng	0.01
25) Fluoranthene-d10	19.22	212	1749	0.01	ng	0.00
29) Terphenyl-d14	19.82	244	497	0.01	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.69	128	36292	0.356	ng	100
12) 2-Methylnaphthalene	12.30	142	2744	0.158	ng	# 86
16) Acenaphthylene	14.20	152	5400	0.191	ng	98
17) Acenaphthene	14.54	154	5207	0.285	ng	97
18) Fluorene	15.51	166	7872	0.325	ng	99
23) Phenanthrene	17.24	178	124995	3.164	ng	99
24) Anthracene	17.33	178	31848	0.869	ng	97
26) Fluoranthene	19.26	202	208174	4.038	ng	99
28) Pyrene	19.61	202	198274	4.494	ng	# 95
30) Benzo(a)anthracene	21.35	228	136226	2.644	ng	95
31) Chrysene	21.40	228	101978	1.981	ng	97
32) Bis(2-ethylhexyl)phthalate	21.28	149	6521	0.061	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.47	276	87758	1.387	ng	97
35) Benzo(b)fluoranthene	23.10	252	154469	2.954	ng	99
36) Benzo(k)fluoranthene	23.14	252	60747m	1.129	ng	
37) Benzo(a)pyrene	23.73	252	123754	2.542	ng	99
38) Dibenzo(a,h)anthracene	26.48	278	21830	0.434	ng	# 87
39) Benzo(a,h,i)perylene	27.28	276	91748	1.813	ng	99

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

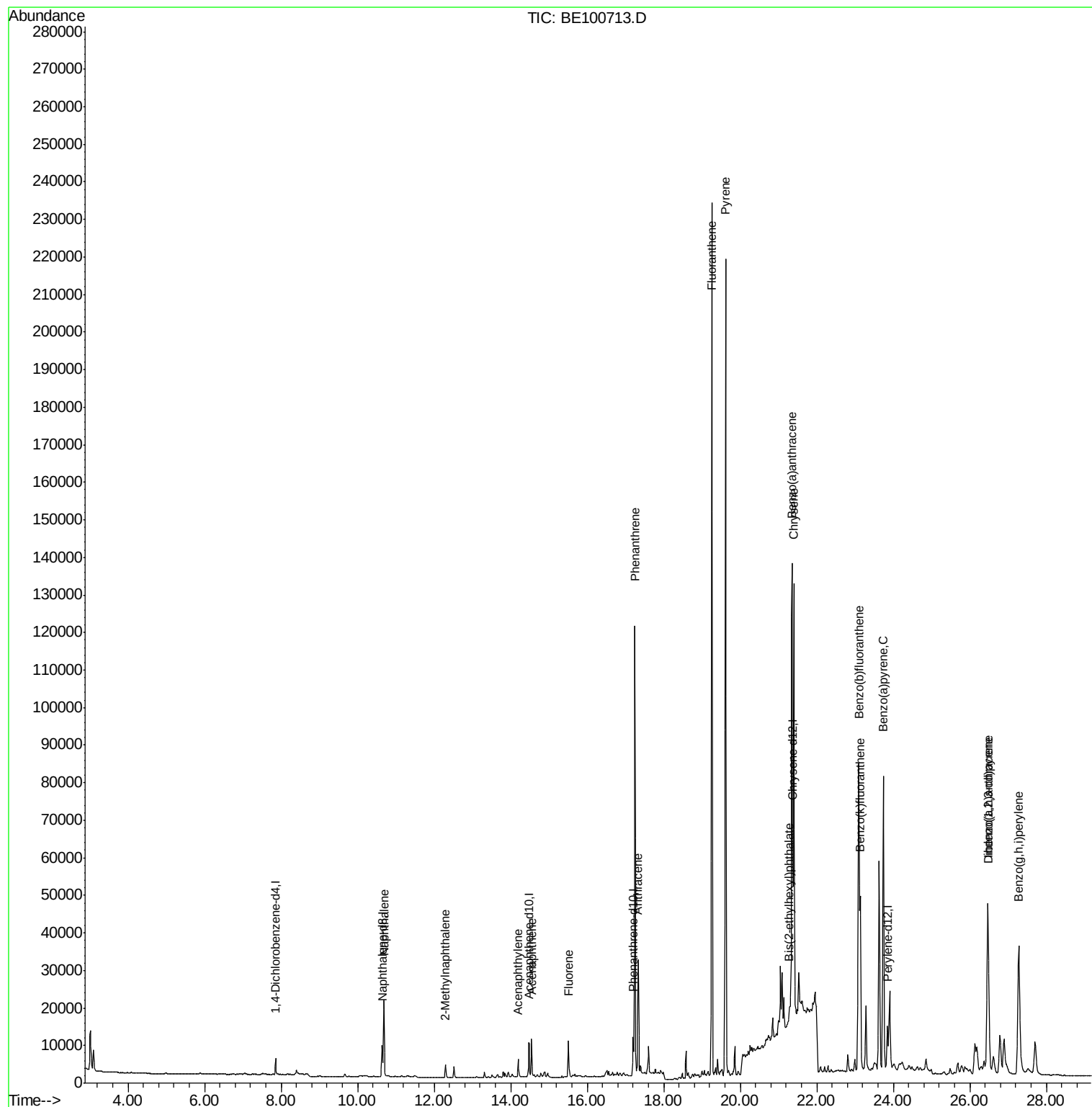
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE110819\
Data File : BE100713.D
Acq On : 8 Nov 2019 12:01
Operator : JU
Sample : K5725-02DL 25X
Misc :
ALS Vial : 4 Sample Multiplier: 1

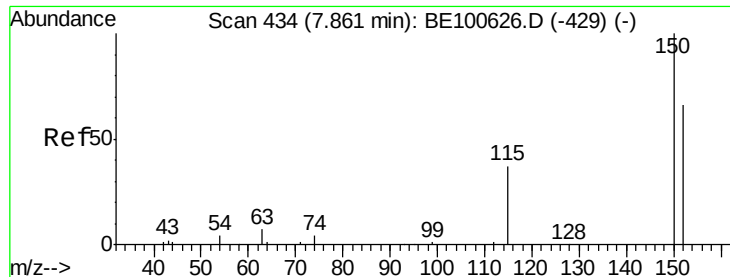
Instrument :
BNA_E
ClientSampleId :
SO-2DL

Manual Integrations
APPROVED

mohammad
11/11/2019 8:09:44 AM

Quant Time: Nov 08 13:12:24 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 16:49:33 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.85 min Scan# 433

Delta R.T. 0.00 min

Lab File: BE100713.D

Acq: 8 Nov 2019 12:01

Instrument :

BNA_E

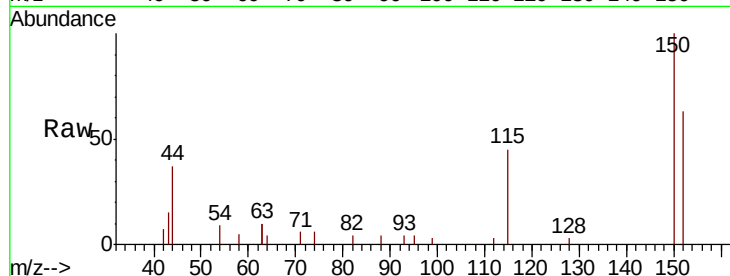
ClientSampled :

SO-2DL

Tot Ion:	152	Resp:	2052
Ion	Ratio	Lower	Upper
152	100		
150	158.4	123.3	184.9
115	70.7	51.9	77.9

Manual Integrations
APPROVED

mohammad
11/11/2019 8:09:44 AM

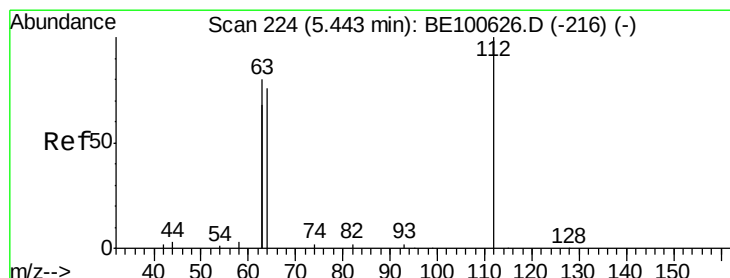
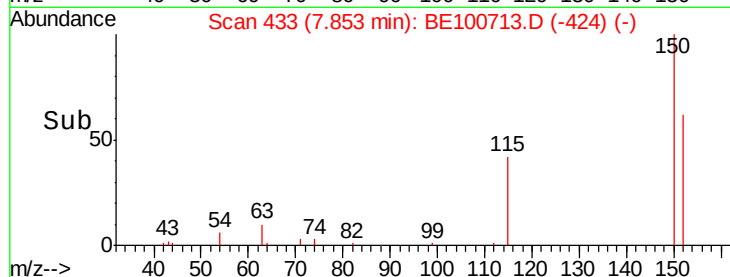
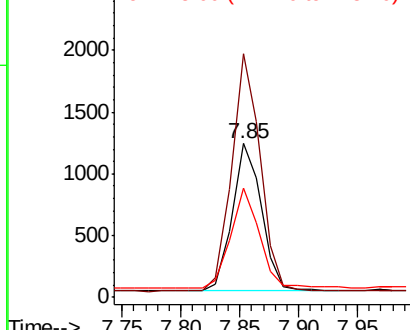


Abundance

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: 0.014 ng

RT: 5.46 min Scan# 225

Delta R.T. 0.01 min

Lab File: BE100713.D

Acq: 8 Nov 2019 12:01

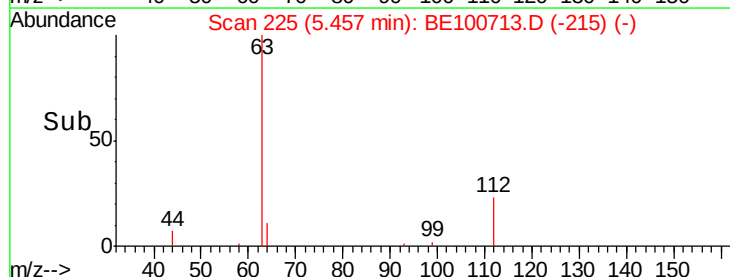
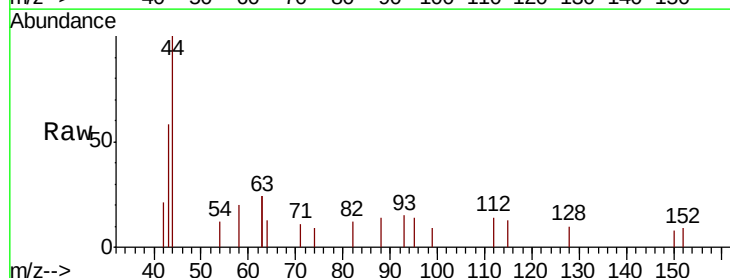
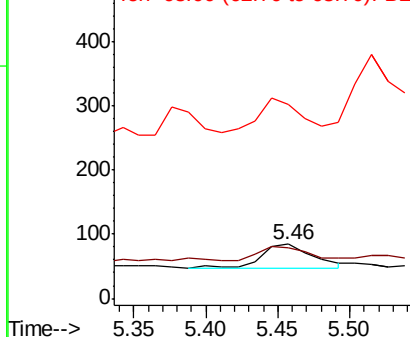
Tgt Ion:	112	Resp:	91
Ion	Ratio	Lower	Upper
112	100		
64	58.2	55.4	83.2
63	116.5	114.2	171.4

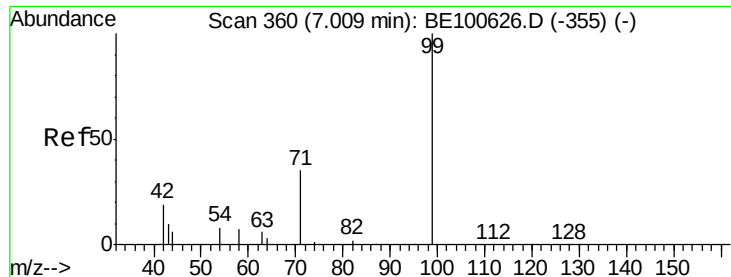
Abundance

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: 0.015 ng

RT: 7.02 min Scan# 361

Delta R.T. 0.01 min

Lab File: BE100713.D

Acq: 8 Nov 2019 12:01

Instrument :

BNA_E

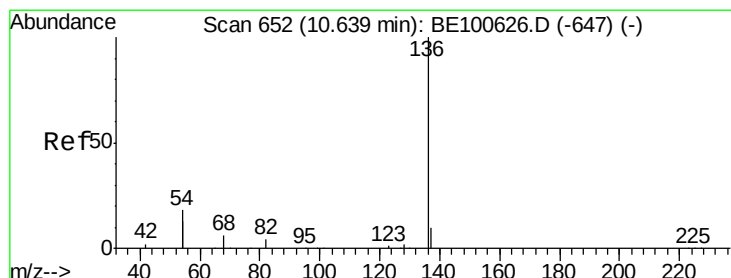
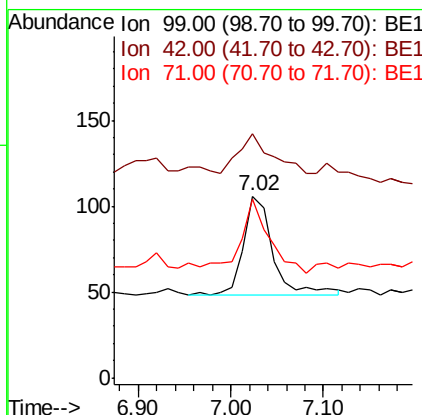
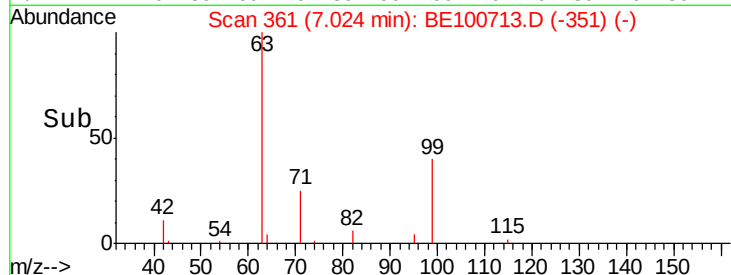
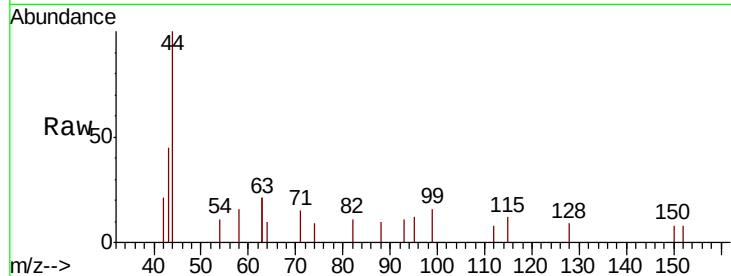
ClientSampleId :

SO-2DL

Tot Ion:	99	Resp:	131
Ion	Ratio	Lower	Upper
99	100		
42	42.7	17.7	26.5#
71	77.1	27.4	41.0#

Manual Integrations
APPROVED

mohammad
11/11/2019 8:09:44 AM



#7

Naphthalene-d8

Concen: 0.400 ng

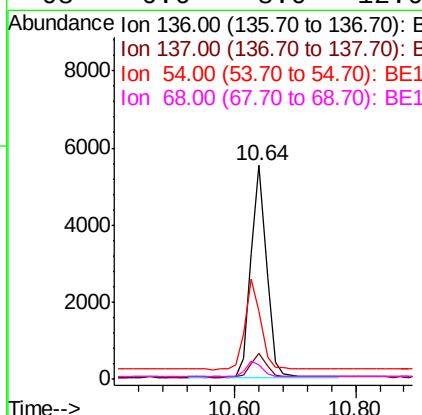
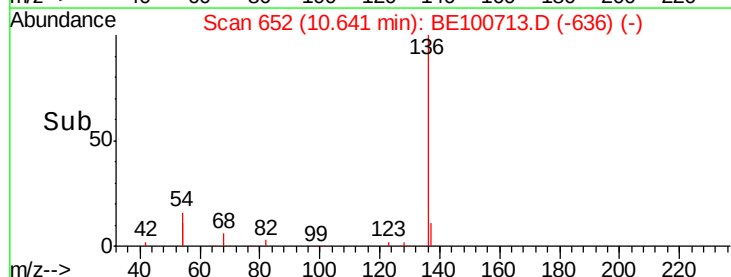
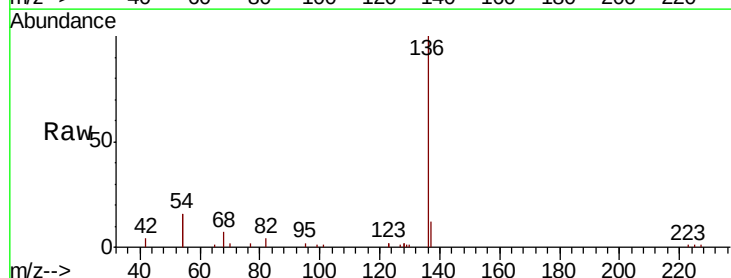
RT: 10.64 min Scan# 652

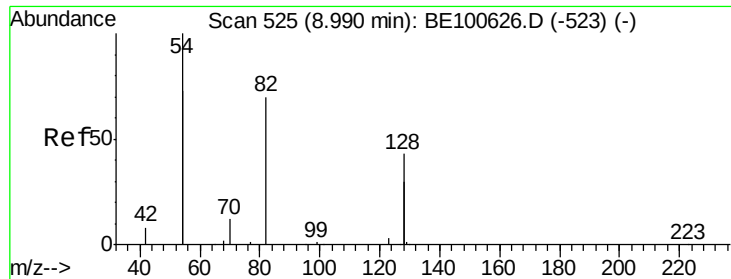
Delta R.T. 0.01 min

Lab File: BE100713.D

Acq: 8 Nov 2019 12:01

Tgt Ion:	136	Resp:	9701
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.2	13.8
54	31.8	39.4	59.2#
68	6.6	8.0	12.0#





#8

Nitrobenzene-d5

Concen: 0.014 ng

RT: 9.00 min Scan# 526

Delta R.T. 0.01 min

Lab File: BE100713.D

Acq: 8 Nov 2019 12:01

Instrument :

BNA_E

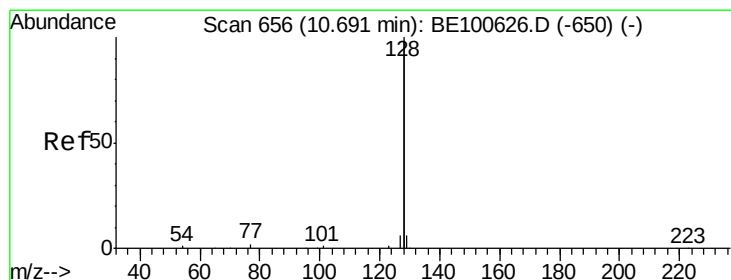
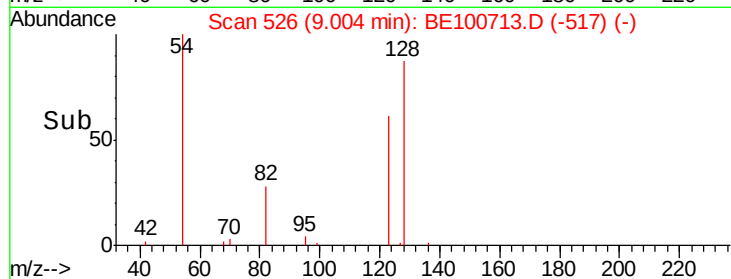
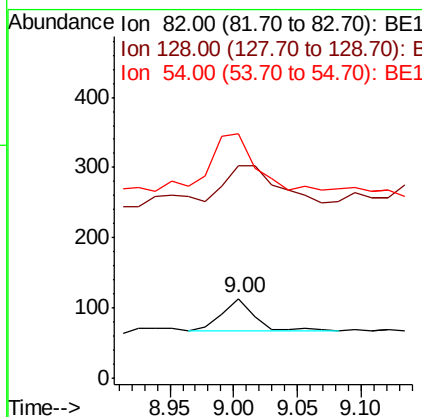
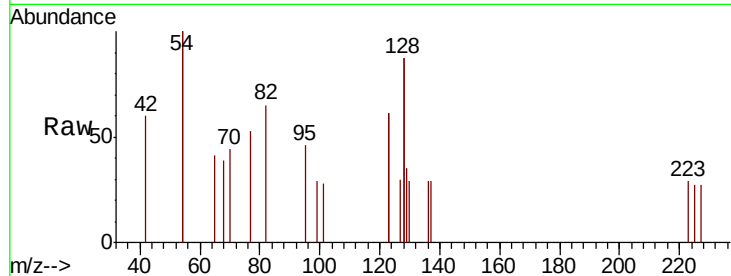
ClientSampleId :

SO-2DL

Tot Ion:	82	Resp:	86
Ion Ratio	Lower	Upper	
82	100		
128	267.3	107.8	161.8#
54	308.0	166.1	249.1#

Manual Integrations
APPROVED

mohammad
11/11/2019 8:09:44 AM



#9

Naphthalene

Concen: 0.356 ng

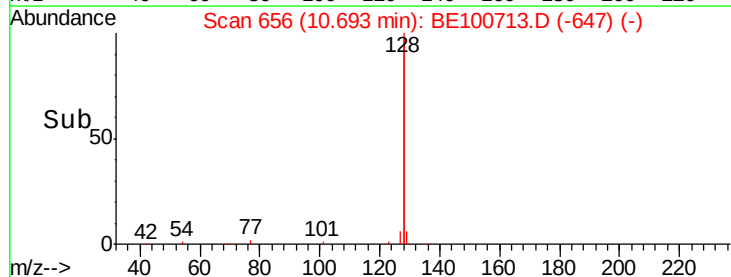
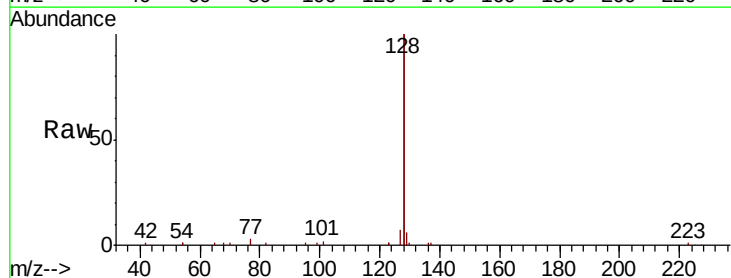
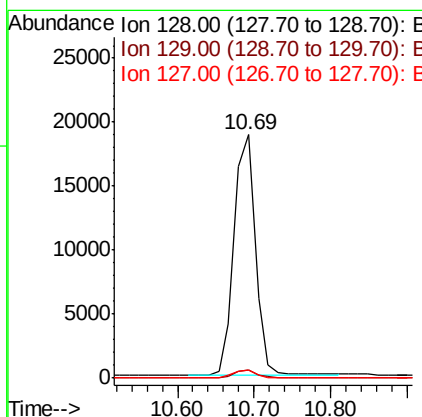
RT: 10.69 min Scan# 656

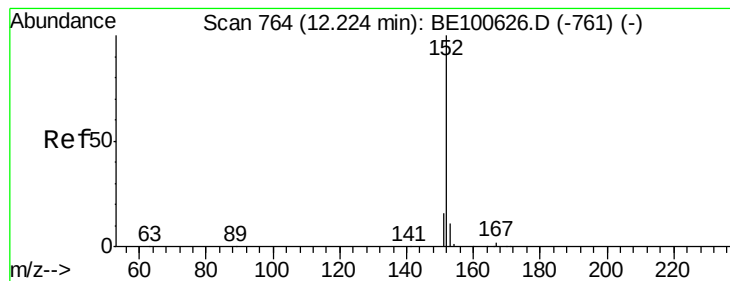
Delta R.T. 0.01 min

Lab File: BE100713.D

Acq: 8 Nov 2019 12:01

Tgt Ion:	128	Resp:	36292
Ion Ratio	Lower	Upper	
128	100		
129	3.1	2.3	3.5
127	3.3	2.7	4.1





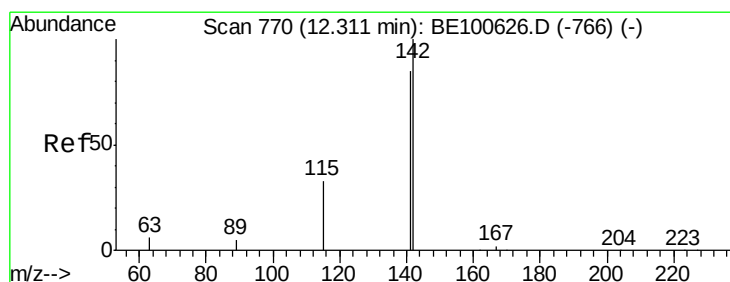
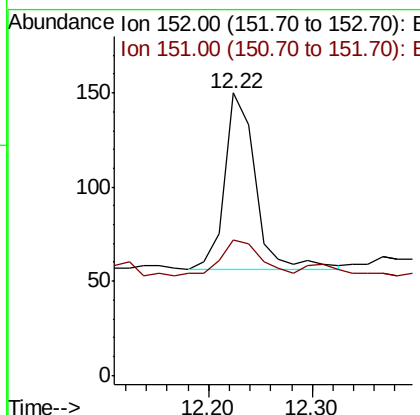
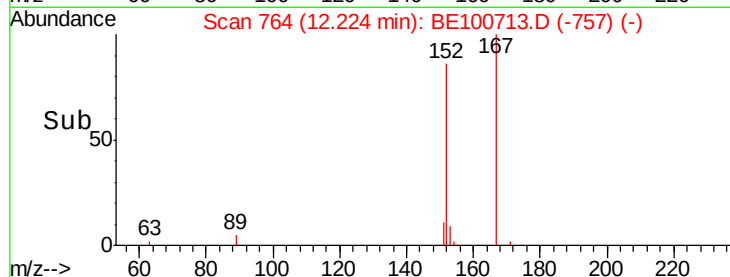
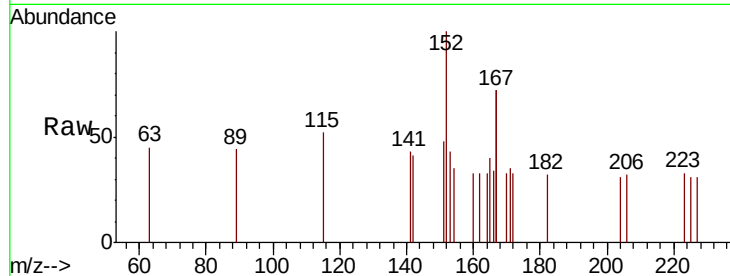
#11
2-Methylnaphthalene-d10
Concen: 0.013 ng
RT: 12.22 min Scan# 764
Delta R.T. -0.00 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampled :
SO-2DL

Tot Ion:152 Resp: 196
Ion Ratio Lower Upper
152 100
151 25.5 14.7 22.1#

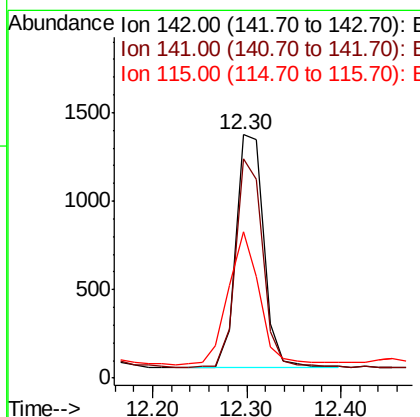
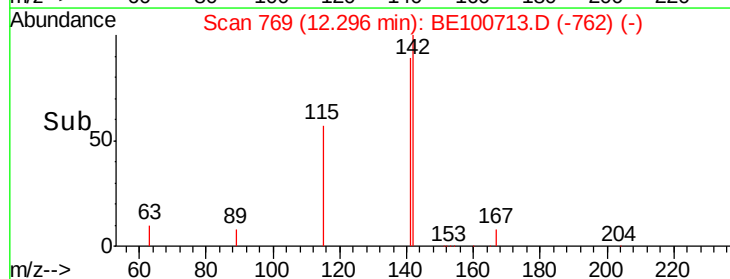
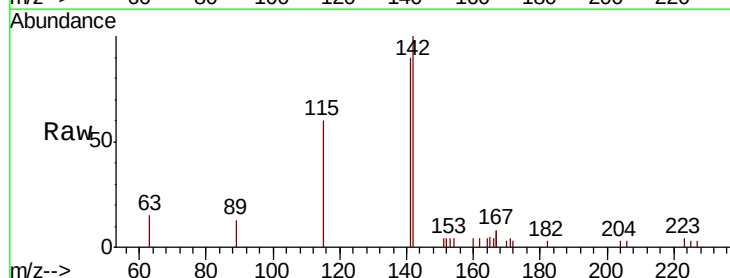
Manual Integrations
APPROVED

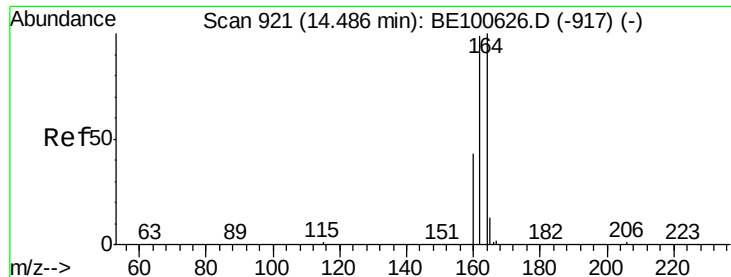
mohammad
11/11/2019 8:09:44 AM



#12
2-Methylnaphthalene
Concen: 0.158 ng
RT: 12.30 min Scan# 769
Delta R.T. -0.00 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion:142 Resp: 2744
Ion Ratio Lower Upper
142 100
141 89.8 70.1 105.1
115 60.1 28.3 42.5#





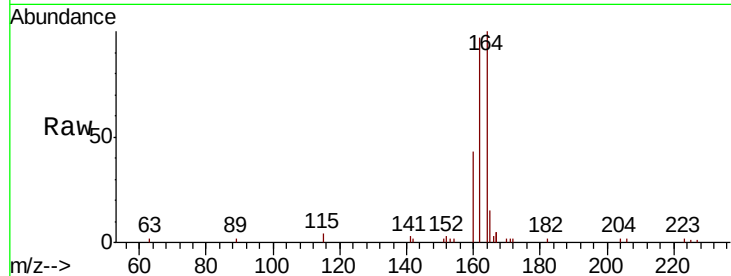
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampleId :
SO-2DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	96.7	82.0	123.0
160	42.8	37.5	56.3

Manual Integrations
APPROVED

mohammad
11/11/2019 8:09:44 AM

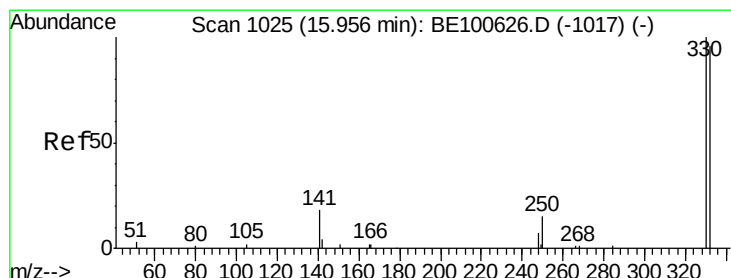
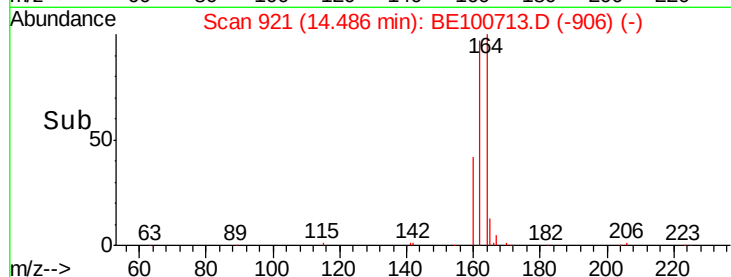
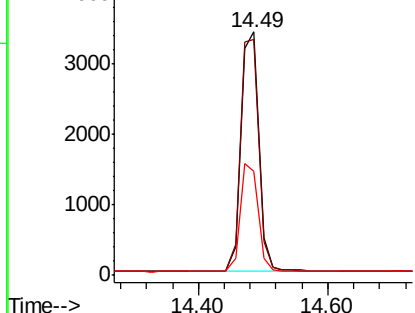


Abundance

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: 0.003 ng
RT: 15.96 min Scan# 1025
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

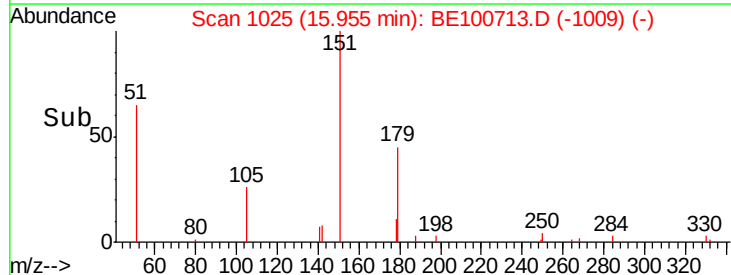
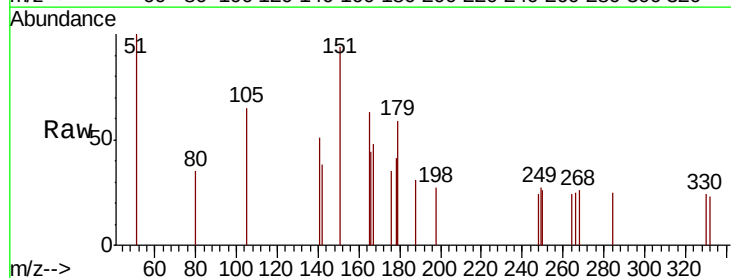
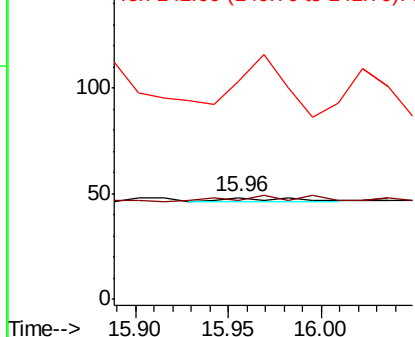
Tgt Ion	Ratio	Lower	Upper
330	100		
332	166.7	77.9	116.9#
141	816.7	33.0	49.6#

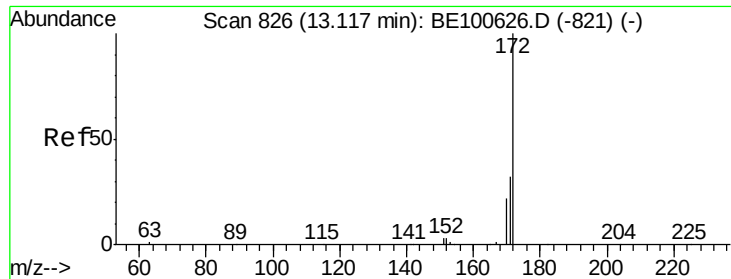
Abundance

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





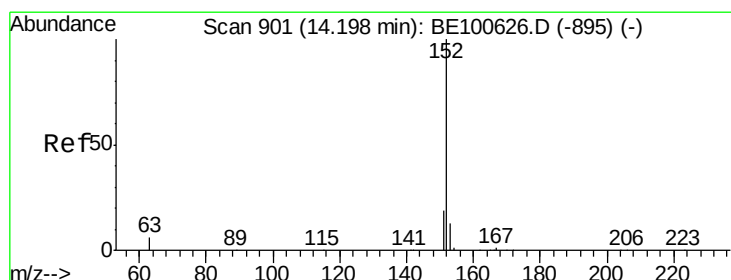
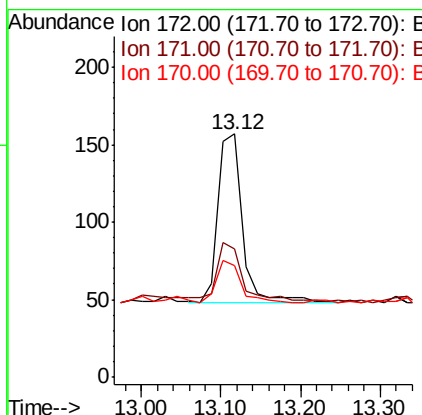
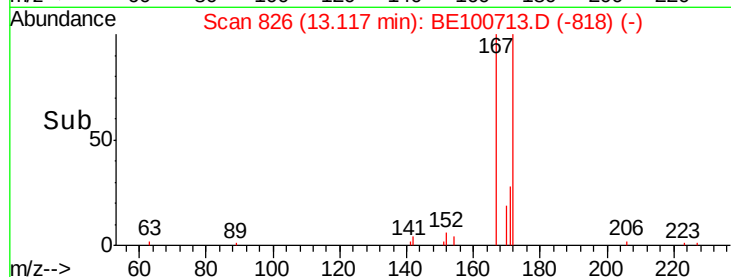
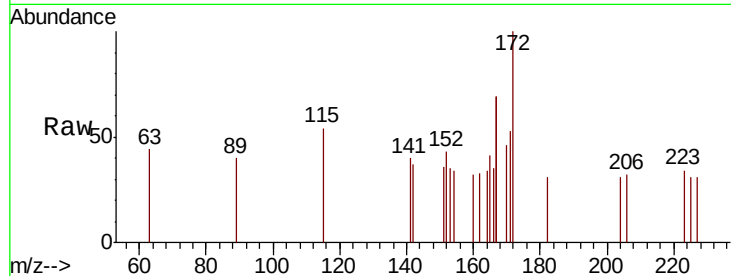
#15
2-Fluorobiphenyl
Concen: 0.010 ng
RT: 13.12 min Scan# 826
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampleId :
SO-2DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	52.9	26.5	39.7#
170	45.9	19.0	28.4#

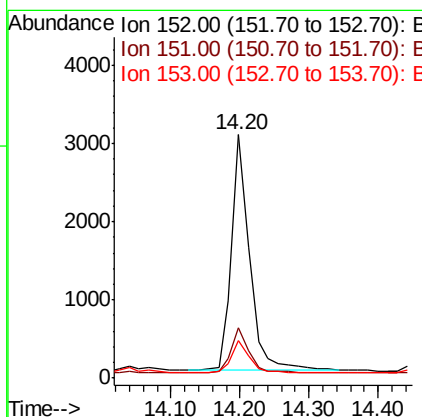
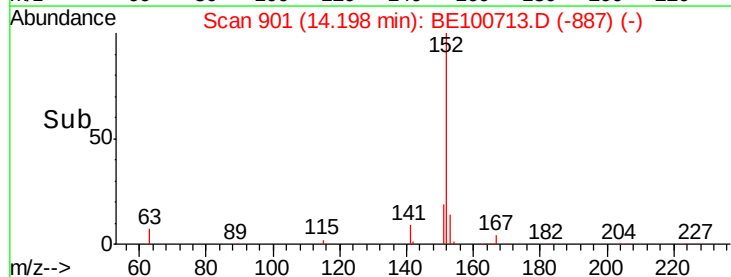
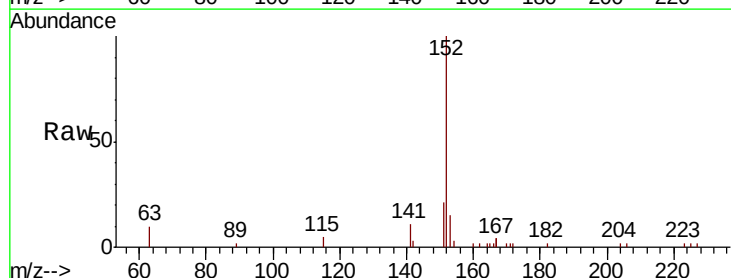
Manual Integrations
APPROVED

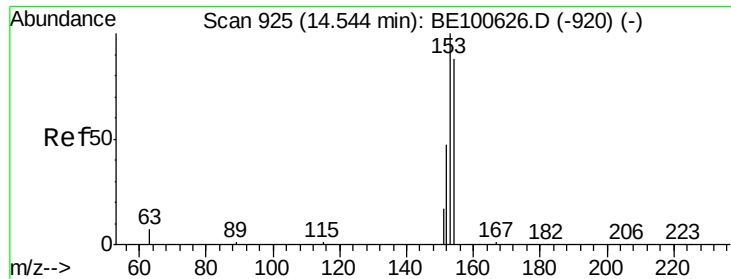
mohammad
11/11/2019 8:09:44 AM



#16
Acenaphthylene
Concen: 0.191 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.2	22.8
153	14.4	10.3	15.5





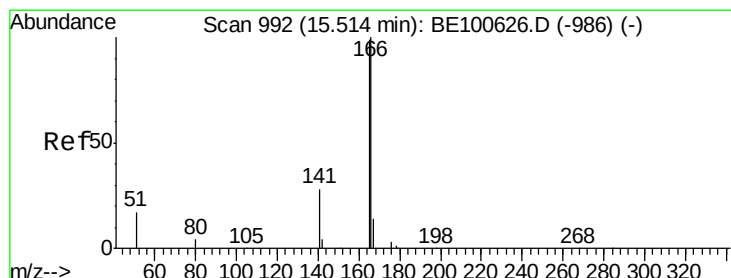
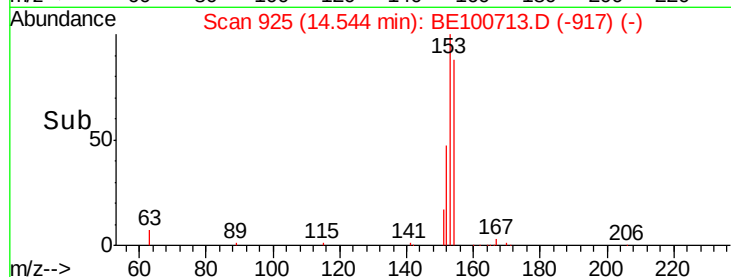
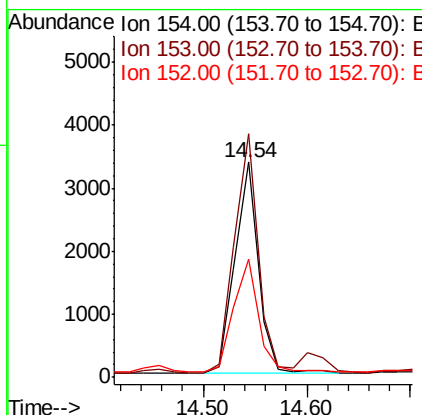
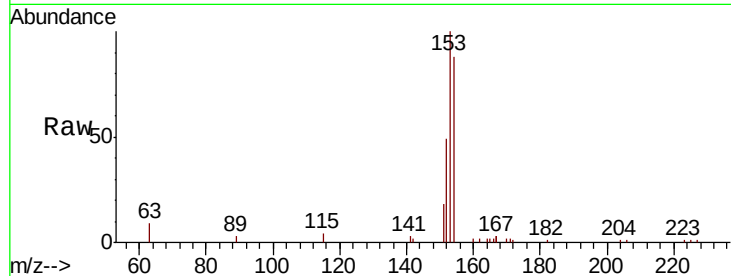
#17
Acenaphthene
Concen: 0.285 ng
RT: 14.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampled :
SO-2DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	115.5	89.4	134.2
152	56.7	44.1	66.1

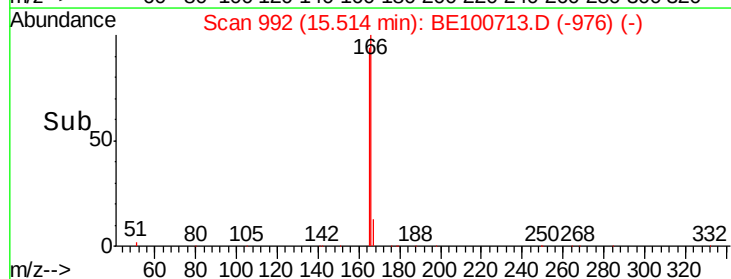
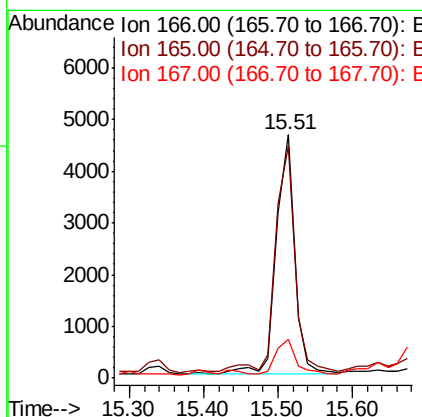
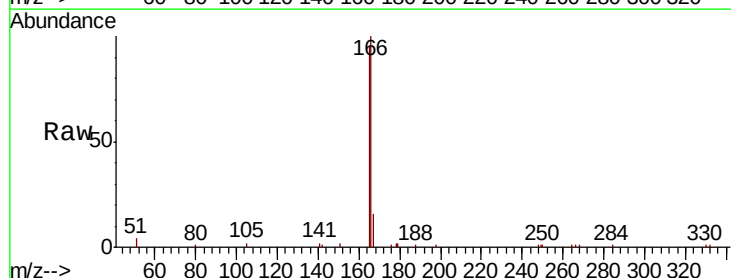
Manual Integrations
APPROVED

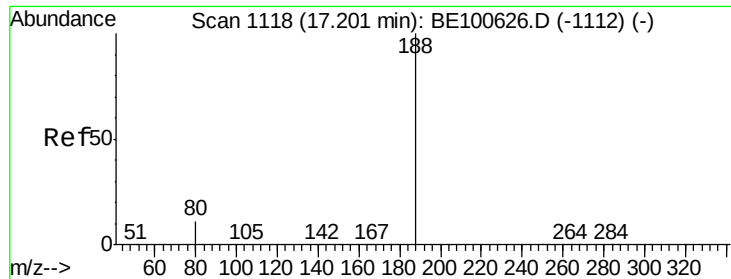
mohammad
11/11/2019 8:09:44 AM



#18
Fluorene
Concen: 0.325 ng
RT: 15.51 min Scan# 992
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.1	78.6	117.8
167	15.6	10.9	16.3





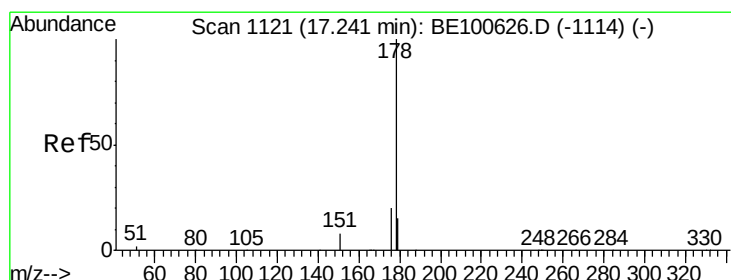
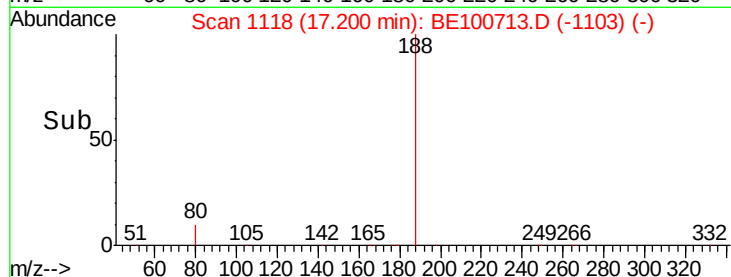
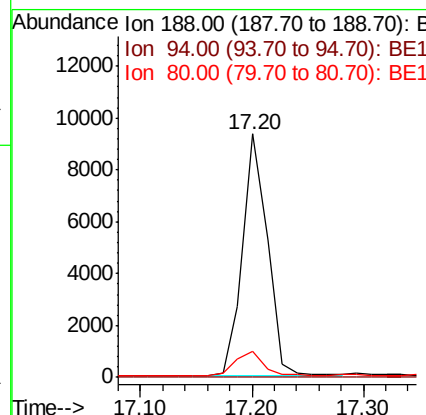
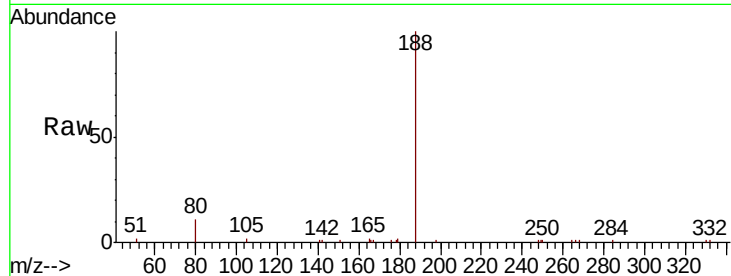
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. -0.00 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampled :
SO-2DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	14361		
94	0.0	0.0	0.0	
80	10.9	5.4	8.0	

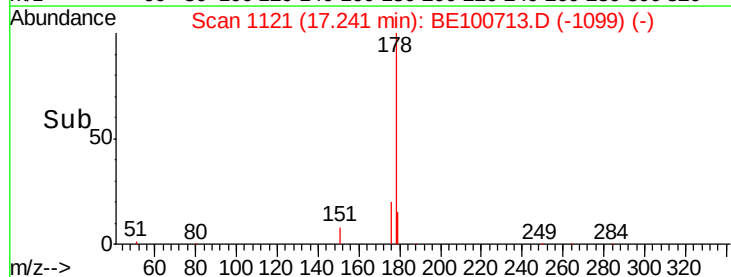
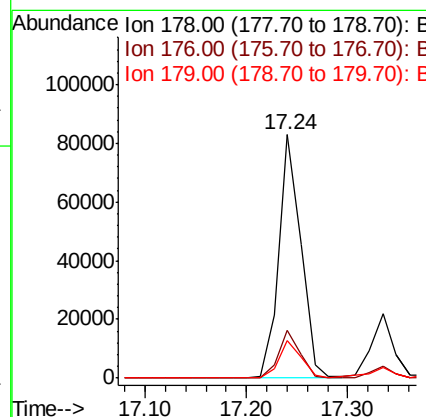
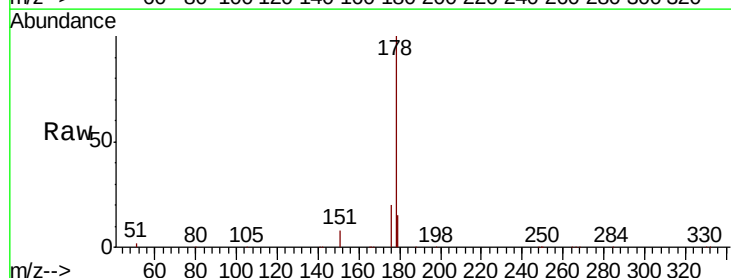
Manual Integrations
APPROVED

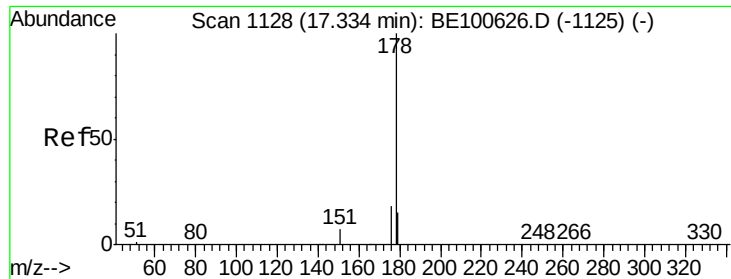
mohammad
11/11/2019 8:09:44 AM



#23
Phenanthrene
Concen: 3.164 ng
RT: 17.24 min Scan# 1121
Delta R.T. -0.00 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	124995		
176	19.2	15.2	22.8	
179	15.5	12.1	18.1	





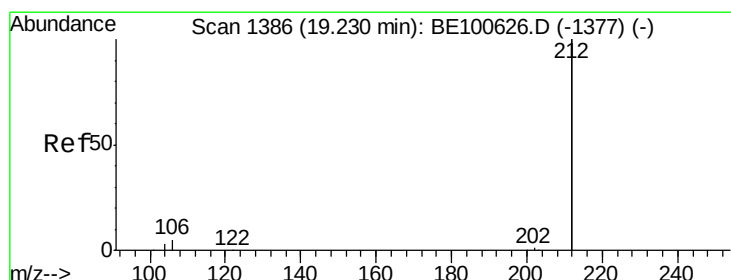
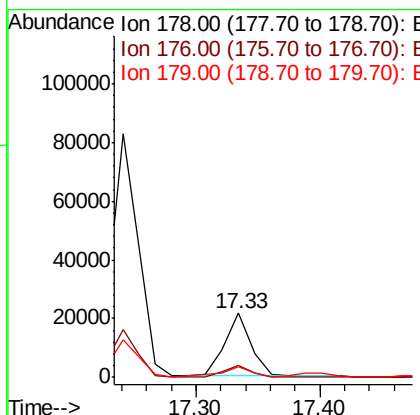
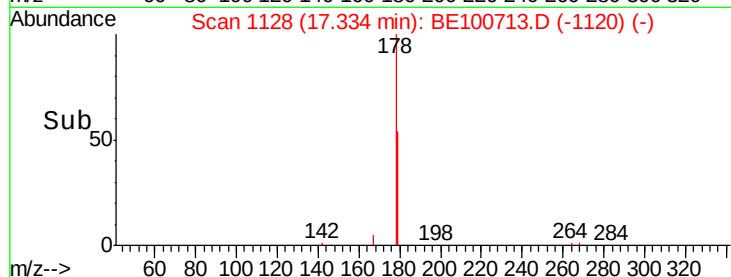
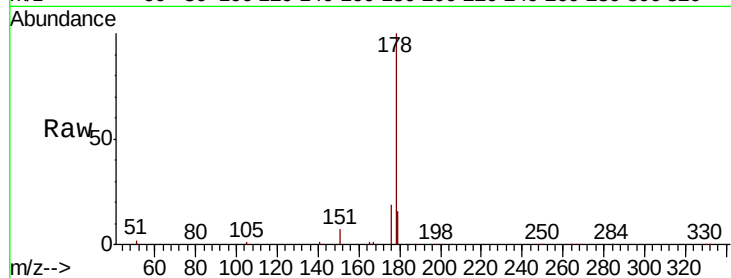
#24
 Anthracene
 Concen: 0.869 ng
 RT: 17.33 min Scan# 1128
 Delta R.T. 0.01 min
 Lab File: BE100713.D
 Acq: 8 Nov 2019 12:01

Instrument :
 BNA_E
 ClientSampled :
 SO-2DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.0	22.4
179	17.6	12.5	18.7

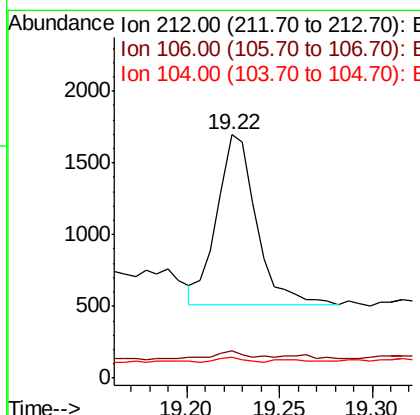
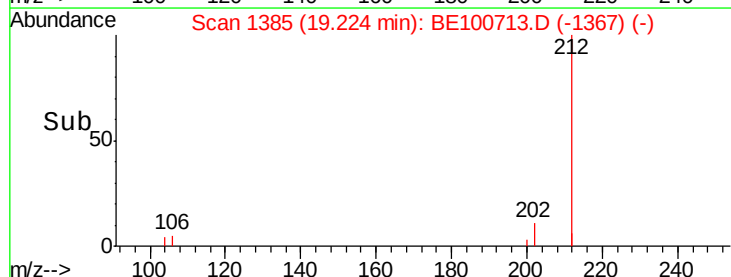
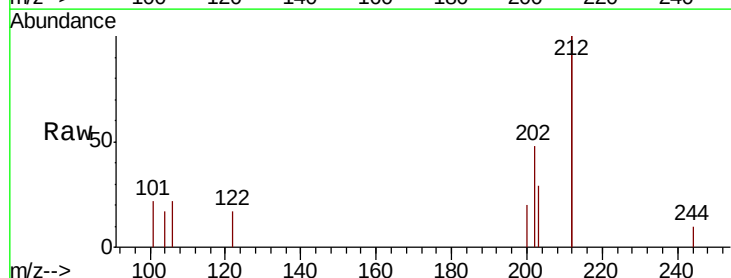
Manual Integrations
 APPROVED

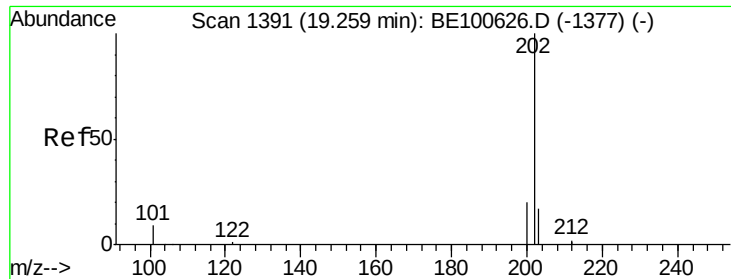
mohammad
 11/11/2019 8:09:44 AM



#25
 Fluoranthene-d10
 Concen: 0.009 ng
 RT: 19.22 min Scan# 1385
 Delta R.T. 0.01 min
 Lab File: BE100713.D
 Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Lower	Upper
212	100		
106	5.2	2.3	3.5#
104	1.7	1.3	1.9





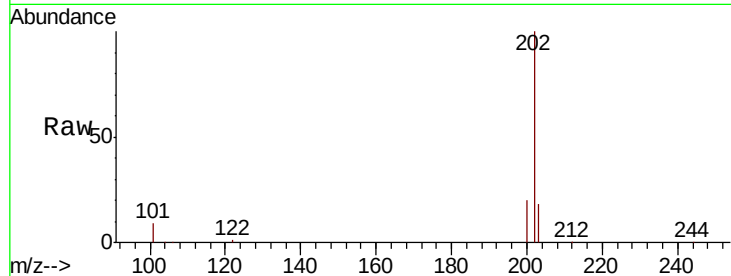
#26
Fluoranthene
Concen: 4.038 ng
RT: 19.26 min Scan# 1391
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampleId :
SO-2DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	208174		
101	10.4		8.5	12.7
203	17.6		13.8	20.8

Manual Integrations
APPROVED

mohammad
11/11/2019 8:09:44 AM

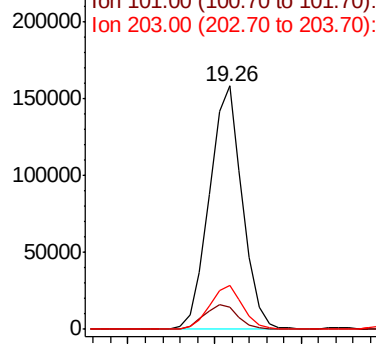


Abundance

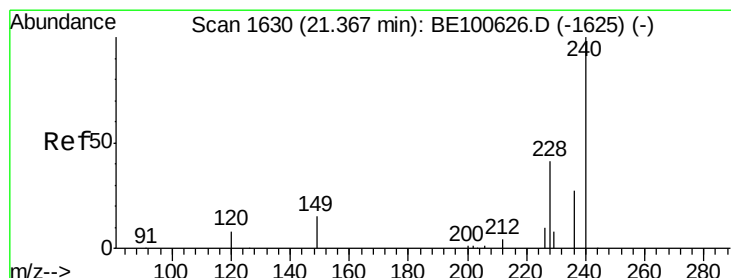
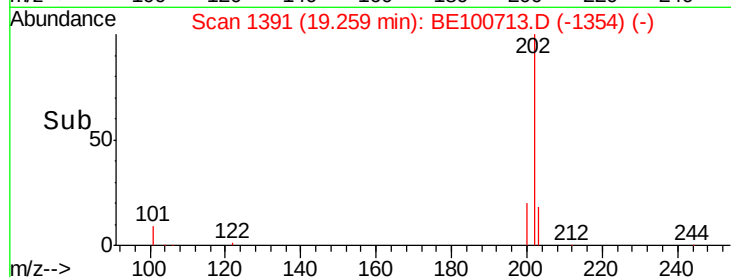
Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

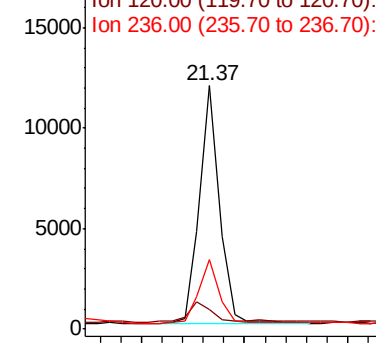
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	15793		
120	8.3		7.6	11.4
236	28.5		22.1	33.1

Abundance

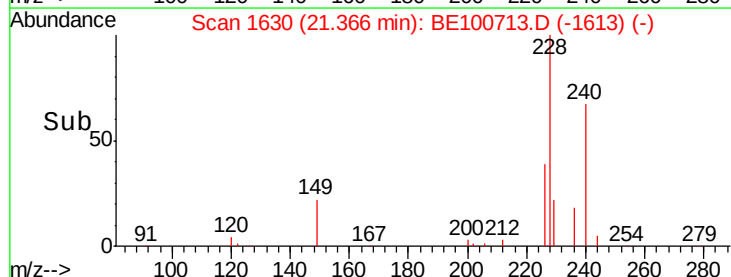
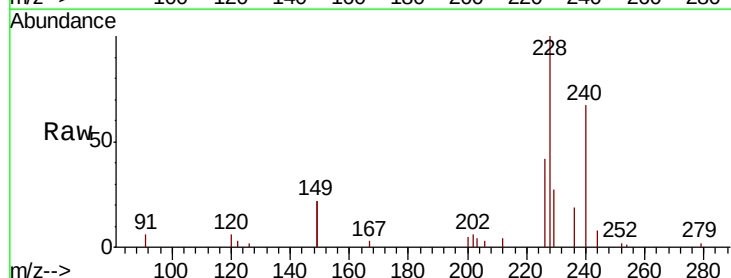
Ion 240.00 (239.70 to 240.70): E

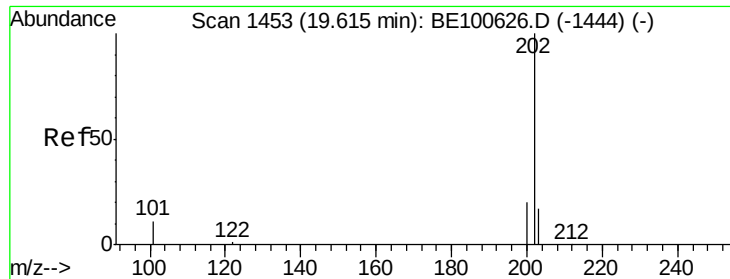
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





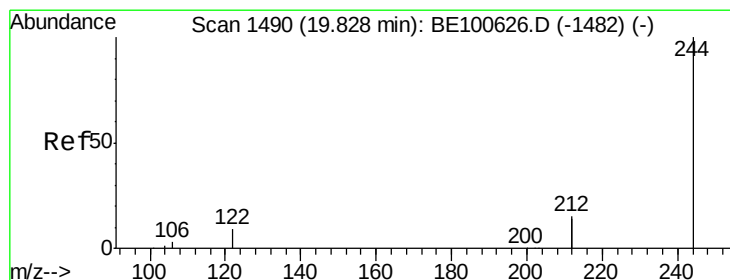
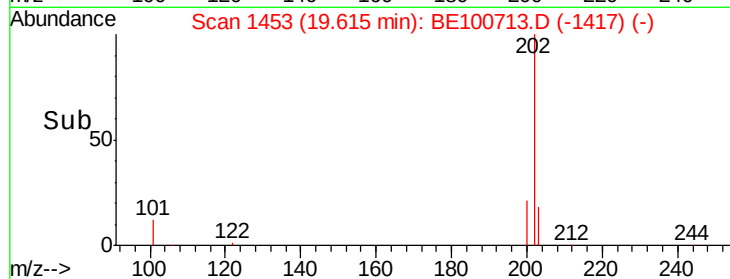
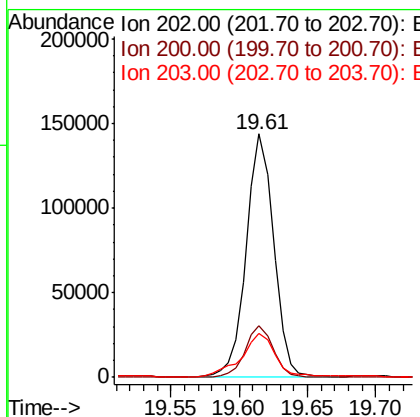
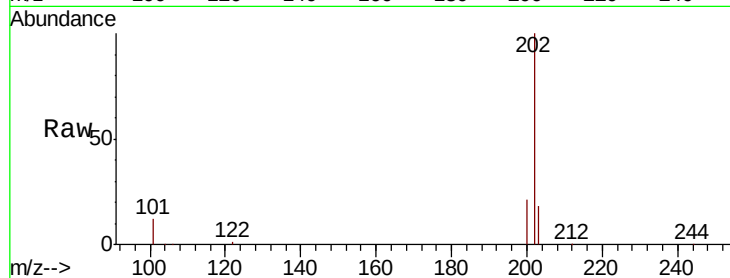
#28
Pvrene
Concen: 4.494 ng
RT: 19.61 min Scan# 1453
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampleId :
SO-2DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.2	16.7	25.1
203	21.9	14.0	21.0#

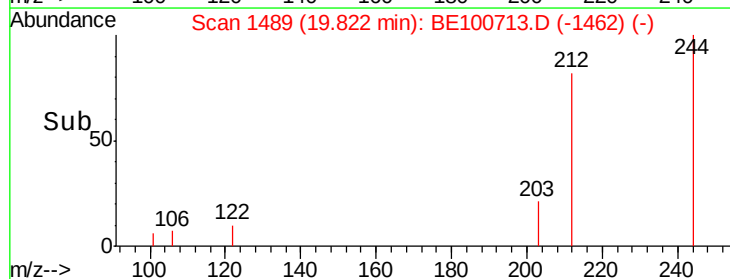
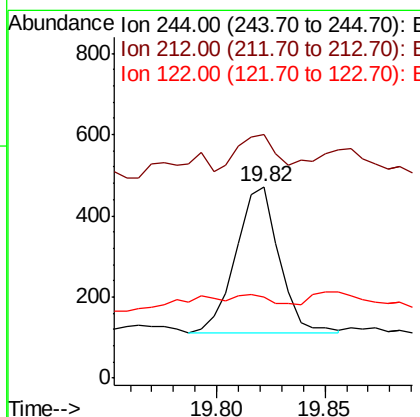
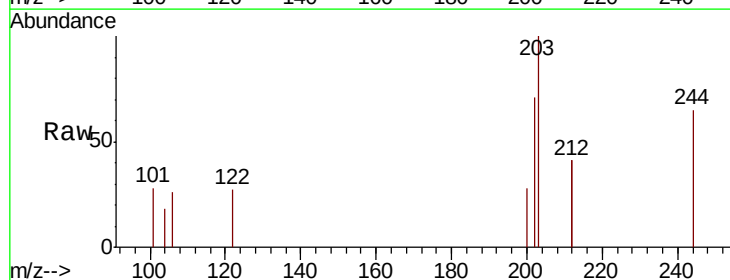
Manual Integrations
APPROVED

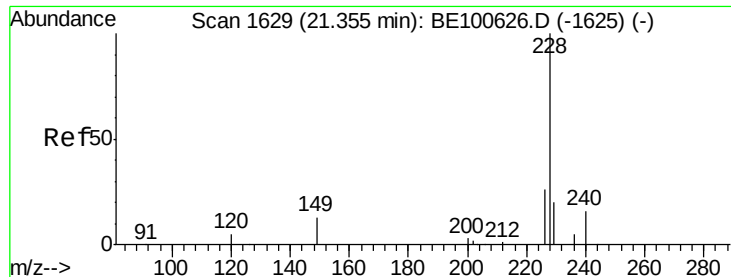
mohammad
11/11/2019 8:09:44 AM



#29
Terphenyl-d14
Concen: 0.014 ng
RT: 19.82 min Scan# 1489
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	127.1	23.7	35.5#
122	42.2	7.9	11.9#





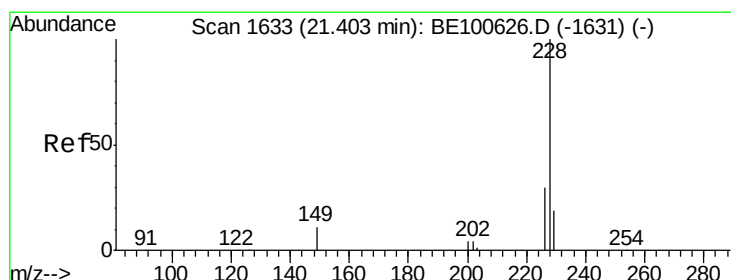
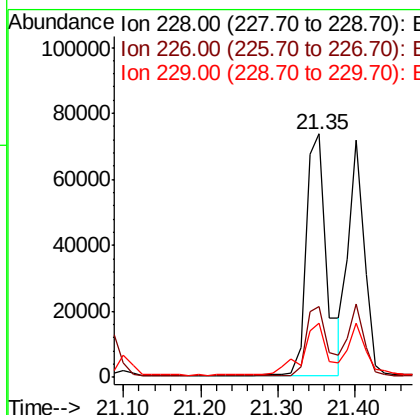
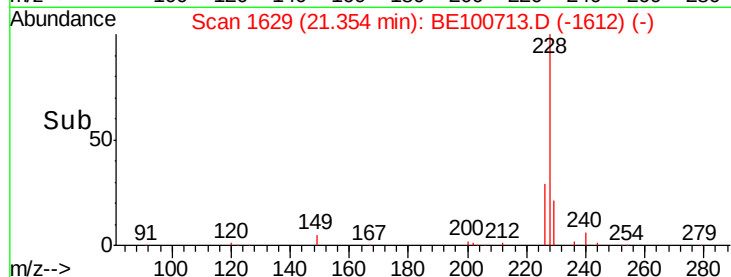
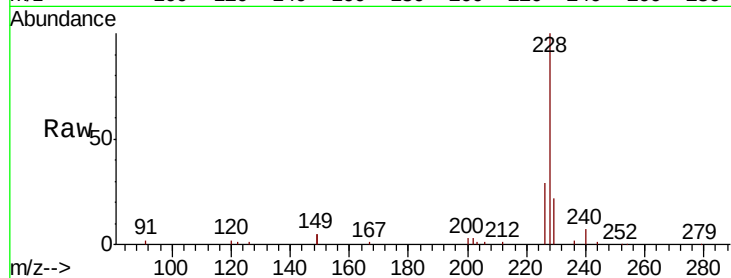
#30
Benzo(a)anthracene
Concen: 2.644 ng
RT: 21.35 min Scan# 1629
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampled :
SO-2DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	21.4	32.0
229	22.1	16.0	24.0

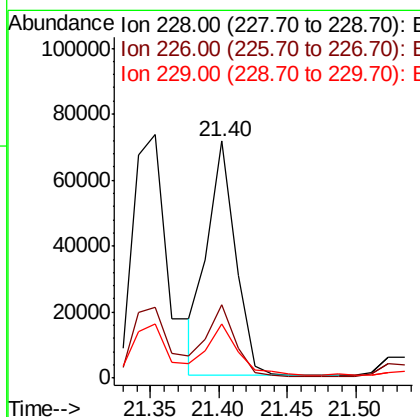
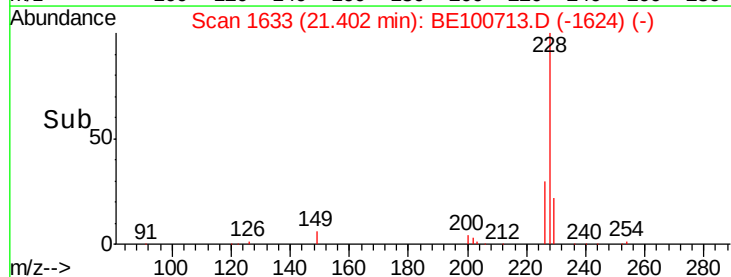
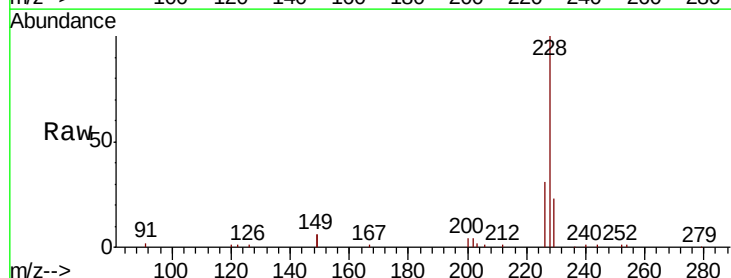
Manual Integrations
APPROVED

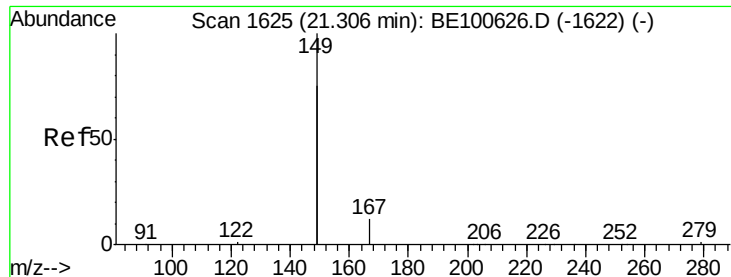
mohammad
11/11/2019 8:09:44 AM



#31
Chrysene
Concen: 1.981 ng
RT: 21.40 min Scan# 1633
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	22.9	15.8	23.8





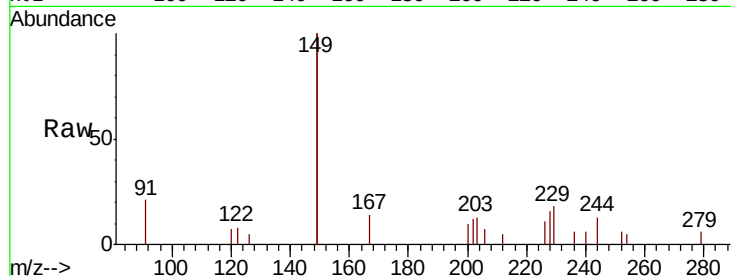
#32
Bis(2-ethylhexyl)phthalate
Concen: 0.061 ng
RT: 21.28 min Scan# 1623
Delta R.T. -0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampled :
SO-2DL

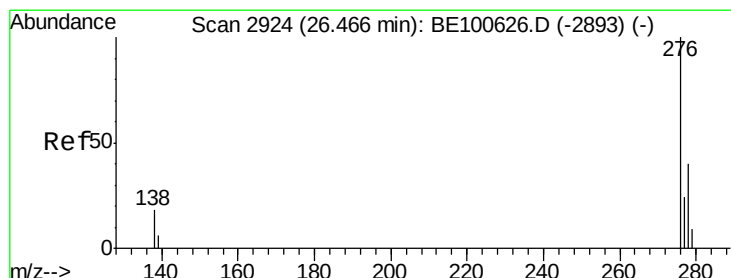
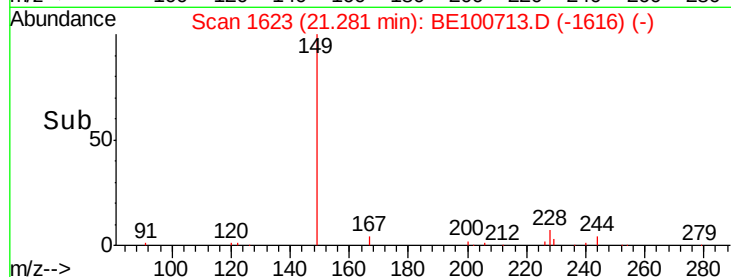
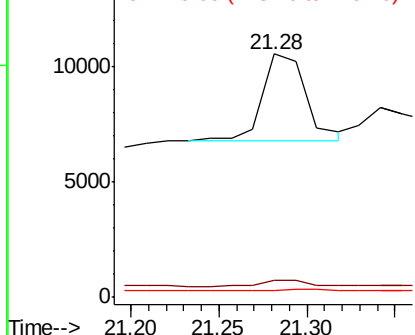
Tot Ion	Ratio	Lower	Upper
149	100		
167	7.1	5.5	8.3
279	2.2	0.9	1.3

Manual Integrations
APPROVED

mohammad
11/11/2019 8:09:44 AM



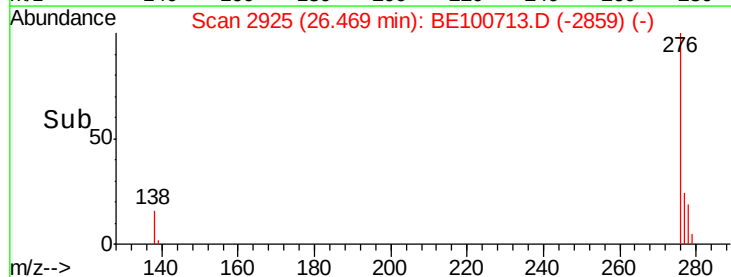
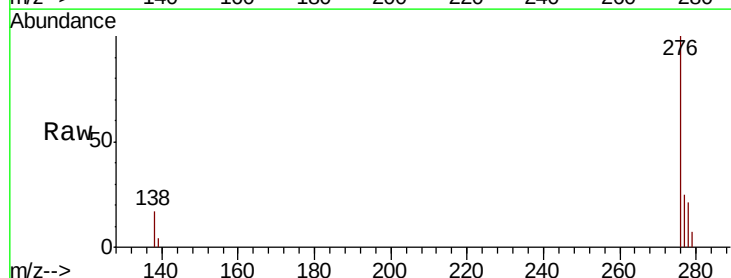
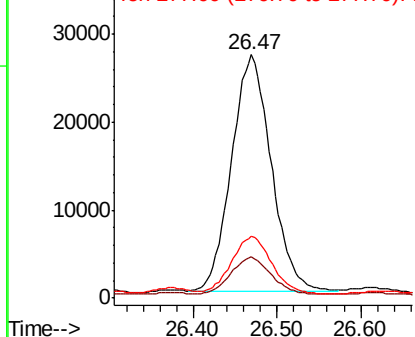
Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E

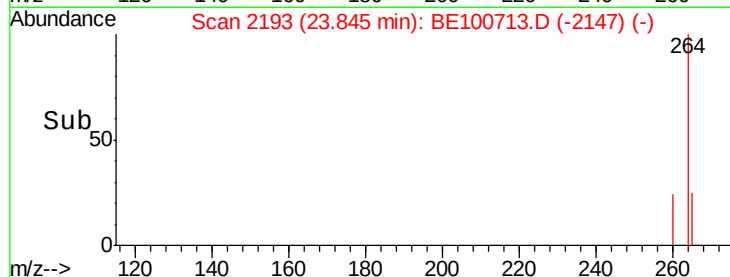
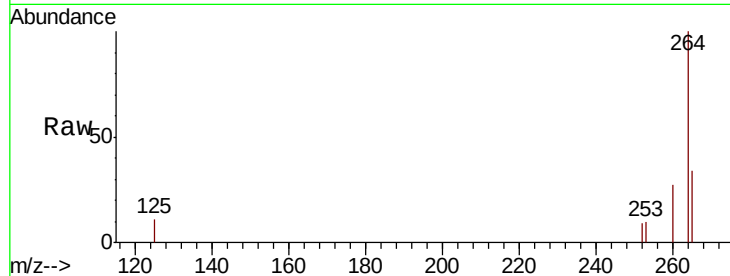
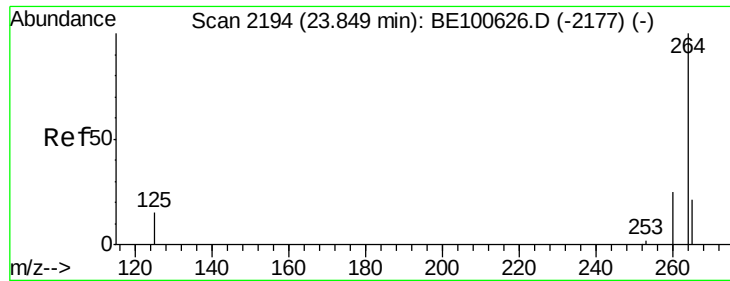


#33
Indeno(1,2,3-cd)pyrene
Concen: 1.387 ng
RT: 26.47 min Scan# 2925
Delta R.T. 0.04 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Lower	Upper
276	100		
138	15.9	15.3	22.9
277	24.5	19.4	29.2

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





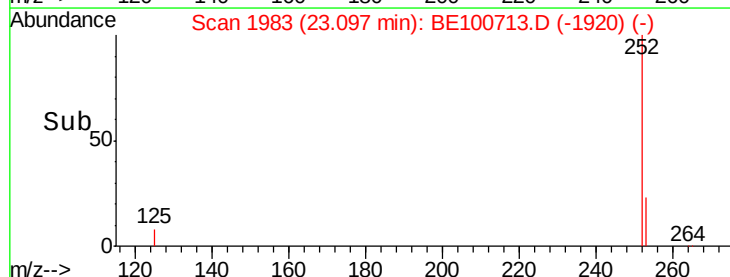
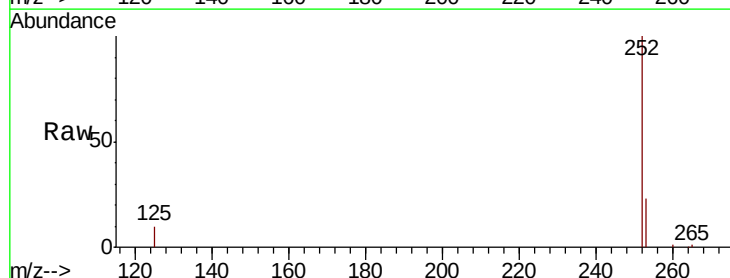
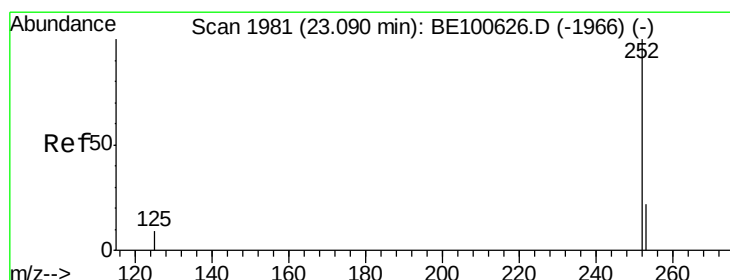
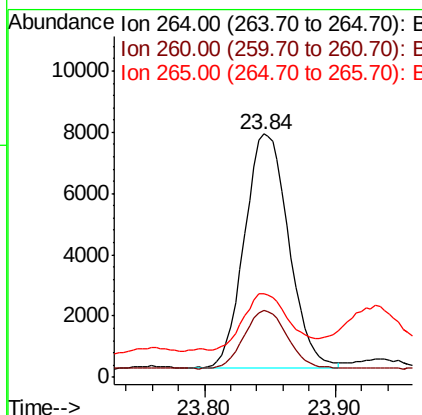
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.84 min Scan# 2193
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.3	19.4	29.2
265	34.4	21.7	32.5

Instrument :
BNA_E
ClientSampled :
SO-2DL

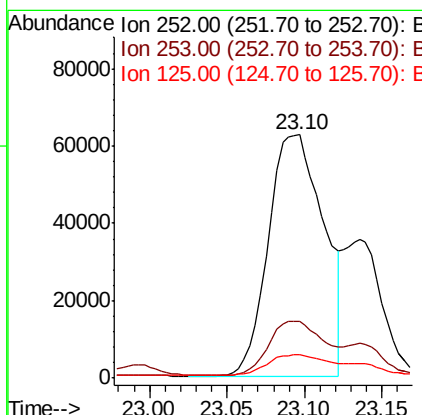
Manual Integrations
APPROVED

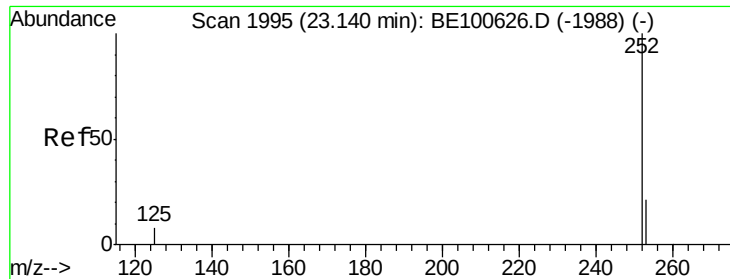
mohammad
11/11/2019 8:09:44 AM



#35
Benzo(b)fluoranthene
Concen: 2.954 ng
RT: 23.10 min Scan# 1983
Delta R.T. 0.02 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	9.7	7.6	11.4





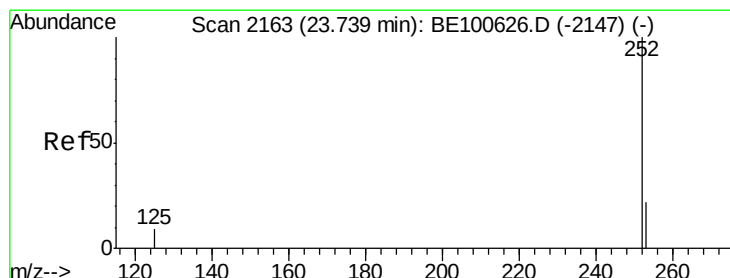
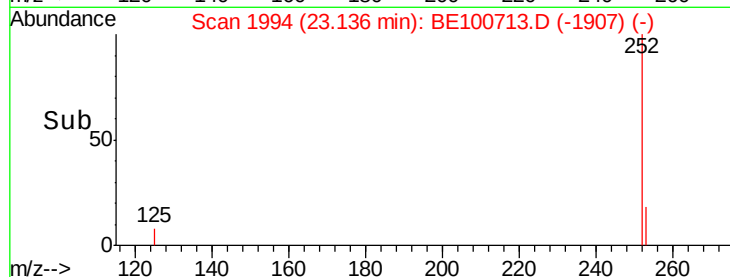
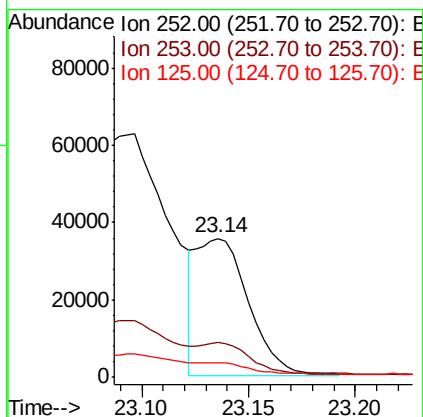
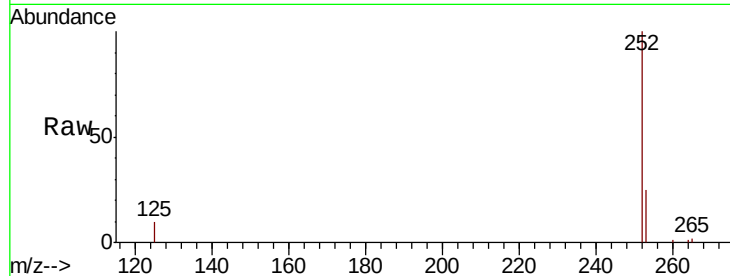
#36
Benzo(k)fluoranthene
Concen: 1.129 ng m
RT: 23.14 min Scan# 1994
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampleId :
SO-2DL

Tot Ion:252 Resp: 60747
Ion Ratio Lower Upper
252 100
253 24.8 18.4 27.6
125 10.4 11.6 17.4#

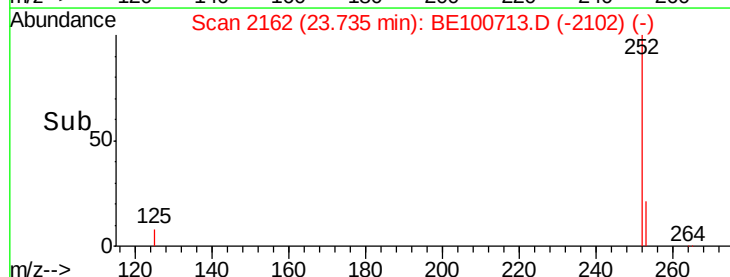
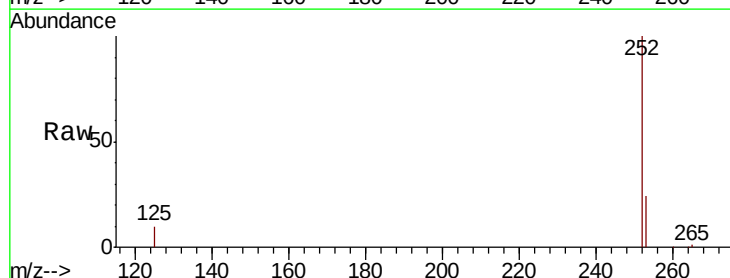
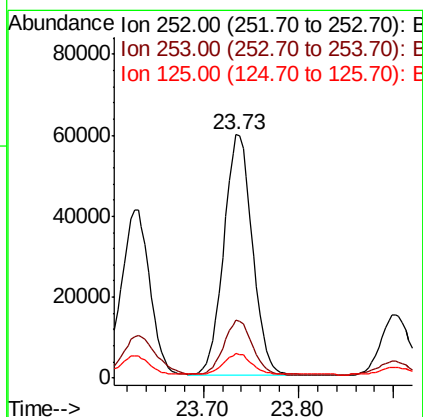
Manual Integrations
APPROVED

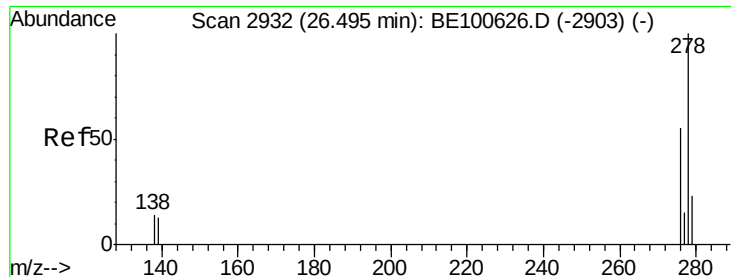
mohammad
11/11/2019 8:09:44 AM



#37
Benzo(a)pyrene
Concen: 2.542 ng
RT: 23.73 min Scan# 2162
Delta R.T. 0.01 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion:252 Resp: 123754
Ion Ratio Lower Upper
252 100
253 23.8 18.4 27.6
125 9.9 8.2 12.4





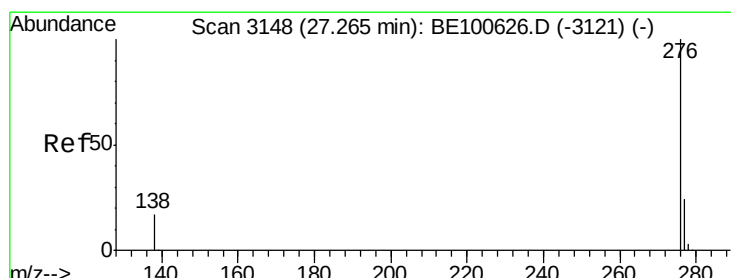
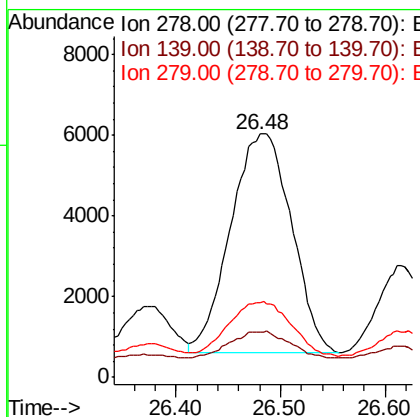
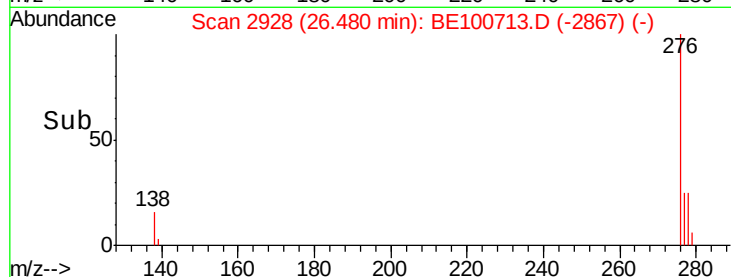
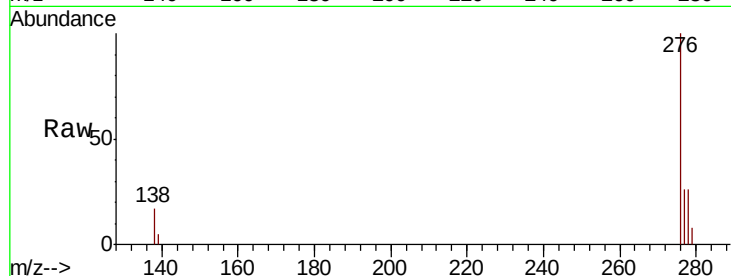
#38
Dibenzo(a,h)anthracene
Concen: 0.434 ng
RT: 26.48 min Scan# 2928
Delta R.T. 0.02 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Instrument :
BNA_E
ClientSampleId :
SO-2DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.8	10.9	16.3#
279	30.9	19.4	29.2#

Manual Integrations
APPROVED

mohammad
11/11/2019 8:09:44 AM



#39
Benzo(g,h,i)perylene
Concen: 1.813 ng
RT: 27.28 min Scan# 3152
Delta R.T. 0.05 min
Lab File: BE100713.D
Acq: 8 Nov 2019 12:01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.4	29.0
138	16.8	13.6	20.4

