

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
 Data File : BN008020.D
 Acq On : 05 Oct 2019 01:09
 Operator : JU
 Sample : K5078-20DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW135-092519DL

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:45:57 AM

Quant Time: Oct 05 04:29:02 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 03 18:39:49 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	17314	0.40	ng	-0.02
7) Naphthalene-d8	10.46	136	71976	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	47519	0.40	ng	-0.01
19) Phenanthrene-d10	17.06	188	110495	0.40	ng	-0.01
27) Chrysene-d12	21.26	240	116119	0.40	ng	-0.01
34) Perylene-d12	23.47	264	131116	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.32	112	2925	0.05	ng	0.00
5) Phenol-d6	6.89	99	4015	0.05	ng	0.02
8) Nitrobenzene-d5	8.82	82	3168	0.05	ng	-0.01
11) 2-Methylnaphthalene-d10	12.05	152	7093	0.06	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	1694	0.07	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	9828	0.05	ng	-0.01
25) Fluoranthene-d10	19.10	212	21871	0.06	ng	0.00
29) Terphenyl-d14	19.70	244	19066	0.07	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.51	128	8645	0.043	ng	# 93
12) 2-Methylnaphthalene	12.12	142	5582	0.041	ng	95
16) Acenaphthylene	14.04	152	65893	0.261	ng	99
17) Acenaphthene	14.37	154	28603	0.176	ng	97
18) Fluorene	15.36	166	43992	0.211	ng	96
23) Phenanthrene	17.10	178	970266	2.819	ng	100
24) Anthracene	17.19	178	89800	0.289	ng	# 92
26) Fluoranthene	19.13	202	1509477	3.527	ng	99
28) Pyrene	19.49	202	1255938	3.171	ng	# 96
30) Benzo(a)anthracene	21.24	228	522499	1.222	ng	98
31) Chrysene	21.29	228	627441	1.506	ng	98
32) Bis(2-ethylhexyl)phthalate	21.17	149	29229m	0.133	ng	
33) Indeno(1,2,3-cd)pyrene	25.69	276	406029	0.778	ng	# 94
35) Benzo(b)fluoranthene	22.82	252	815802	1.792	ng	99
36) Benzo(k)fluoranthene	22.86	252	263771m	0.586	ng	
37) Benzo(a)pyrene	23.38	252	520118	1.216	ng	99
38) Dibenzo(a,h)anthracene	25.70	278	93795	0.214	ng	# 83
39) Benzo(a,h,i)perylene	26.37	276	394541	0.911	ng	98

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

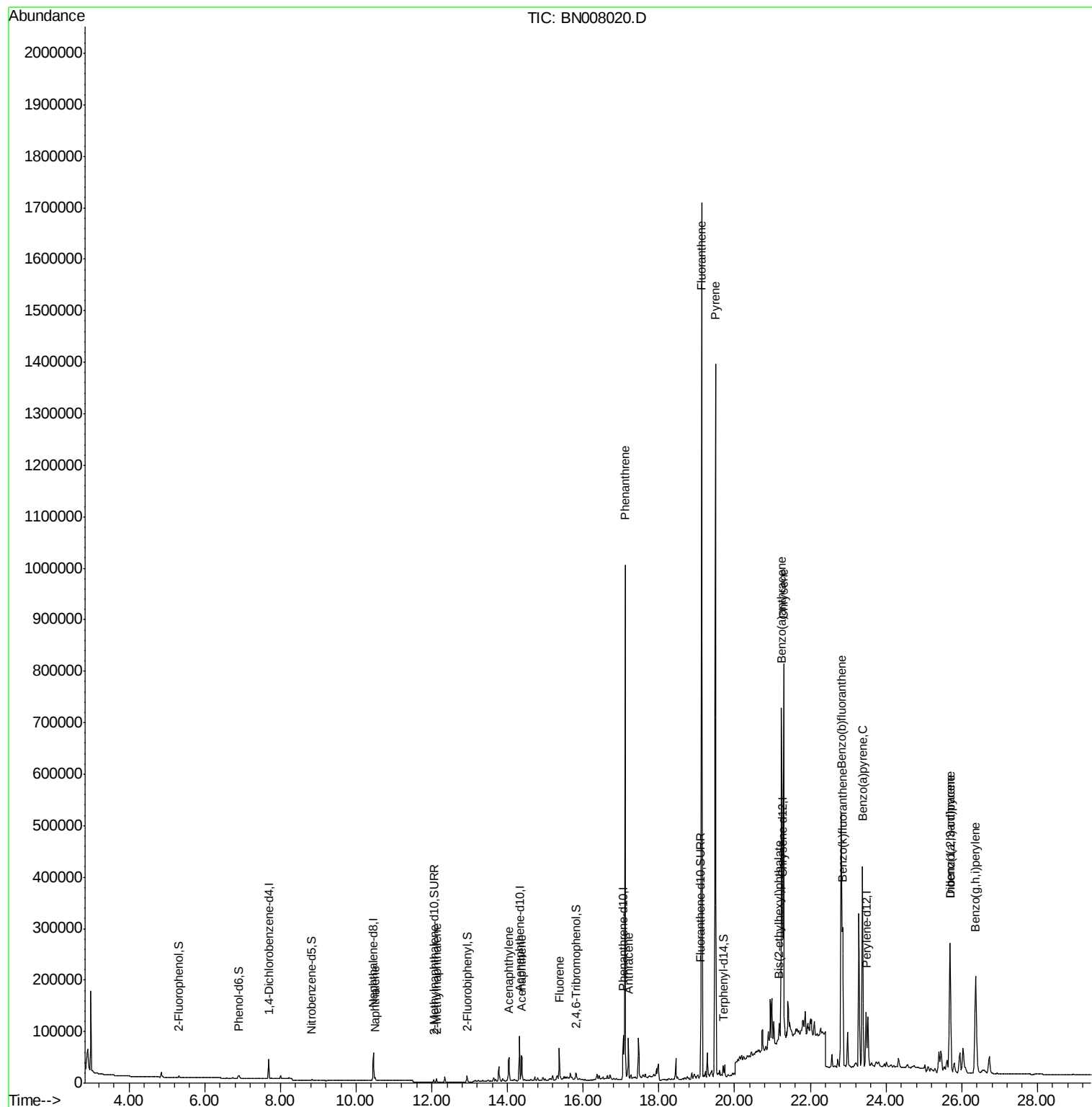
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
Data File : BN008020.D
Acq On : 05 Oct 2019 01:09
Operator : JU
Sample : K5078-20DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:57 AM

Quant Time: Oct 05 04:29:02 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 03 18:39:49 2019
Response via : Initial Calibration





#1

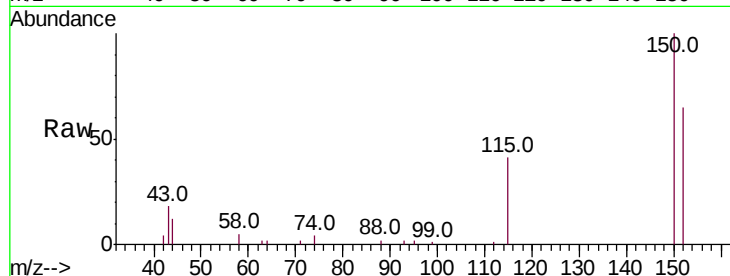
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 603
Delta R.T. -0.02 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	125.6	188.4
115	62.6	53.3	79.9

Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:57 AM

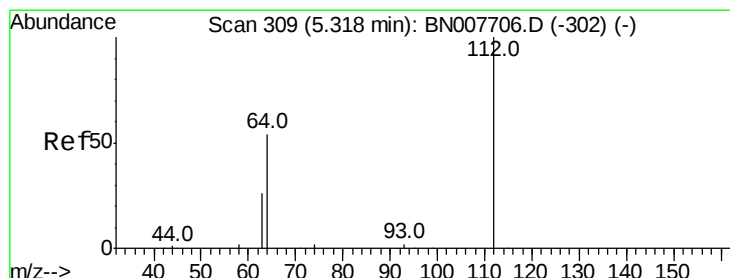
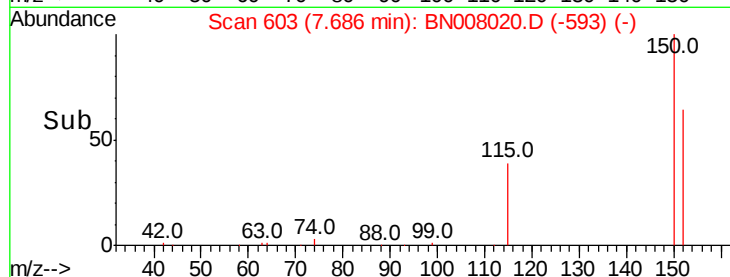
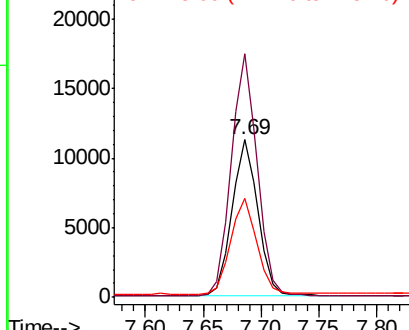


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

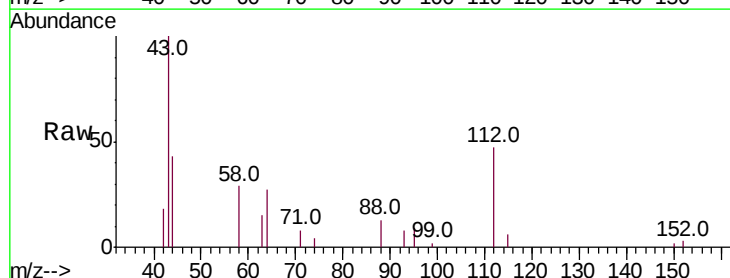
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.049 ng
RT: 5.32 min Scan# 309
Delta R.T. 0.00 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.8	46.6	70.0
63	28.3	23.1	34.7

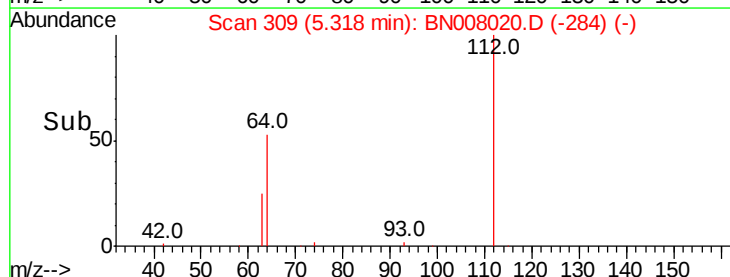
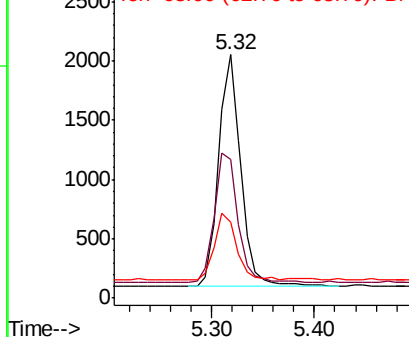


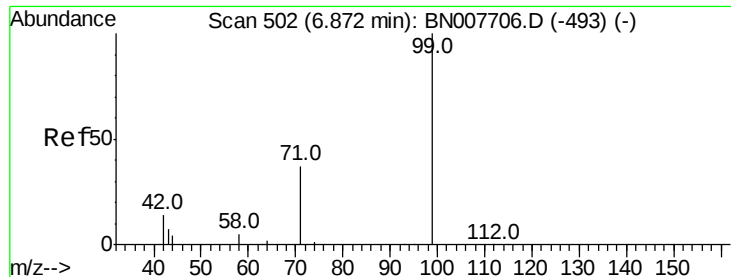
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.049 ng

RT: 6.89 min Scan# 504

Delta R.T. 0.02 min

Lab File: BN008020.D

Acq: 05 Oct 2019 01:09

Instrument :

BNA_N

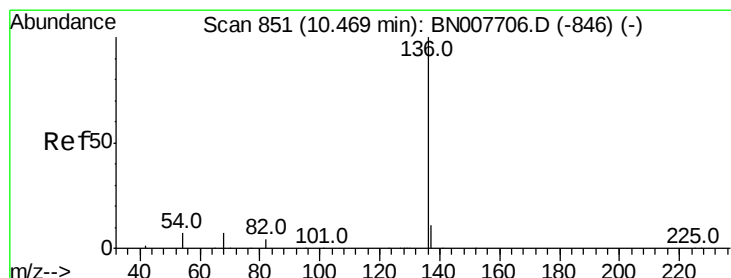
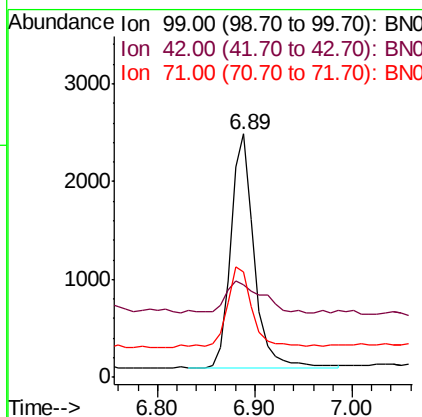
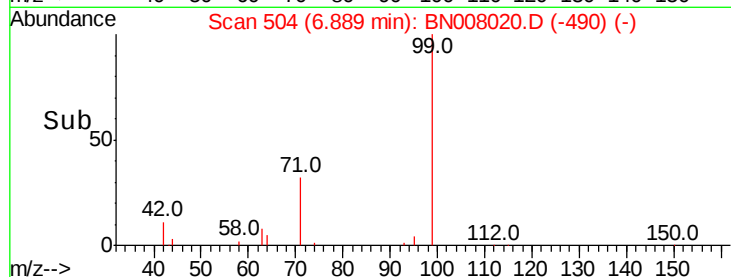
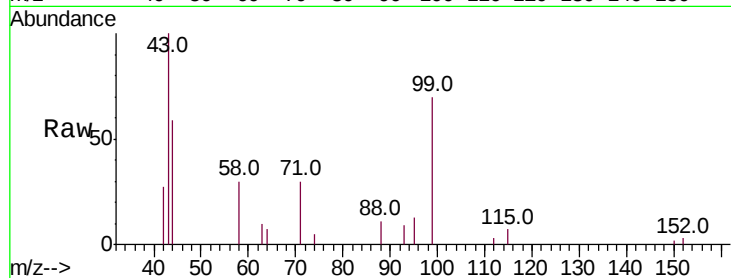
ClientSampleId :

PST-024-SW135-092519DL

Tot Ion:	99	Resp:	4015
Ion Ratio	Lower	Upper	
99	100		
42	20.0	12.8	19.2#
71	37.2	27.6	41.4

Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:57 AM



#7

Naphthalene-d8

Concen: 0.400 ng

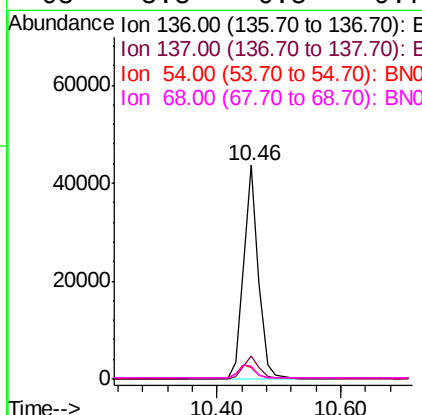
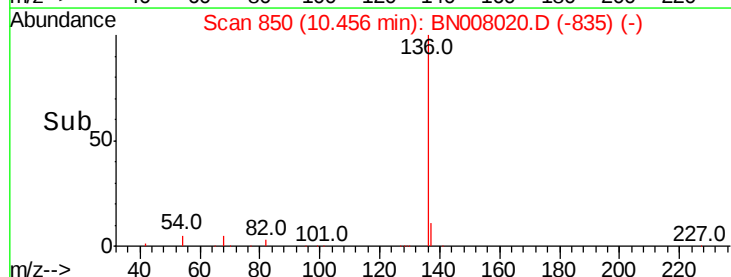
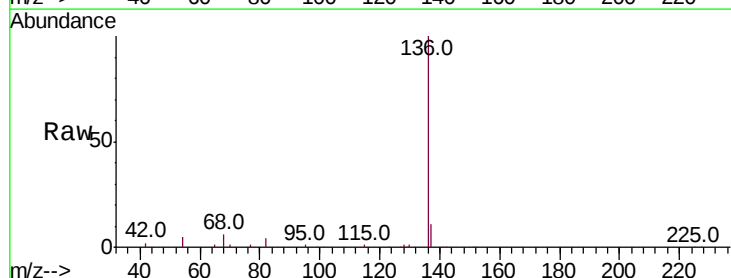
RT: 10.46 min Scan# 850

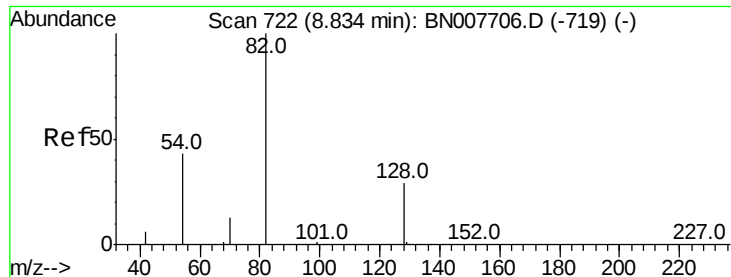
Delta R.T. -0.01 min

Lab File: BN008020.D

Acq: 05 Oct 2019 01:09

Tgt Ion:	136	Resp:	71976
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.2	13.8
54	5.1	5.8	8.8#
68	5.8	6.5	9.7#





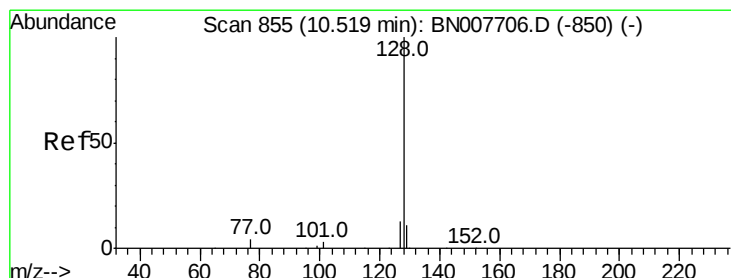
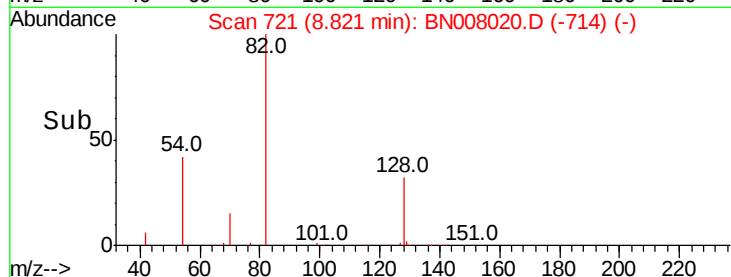
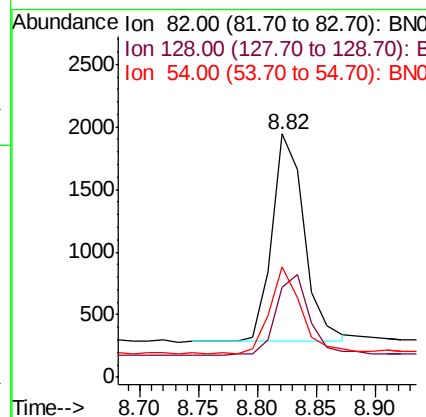
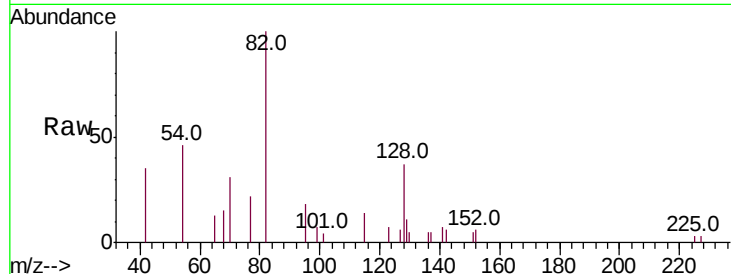
#8
 Nitrobenzene-d5
 Concen: 0.050 ng
 RT: 8.82 min Scan# 721
 Delta R.T. -0.01 min
 Lab File: BN008020.D
 Acq: 05 Oct 2019 01:09

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	36.7	24.5	36.7#
54	45.6	35.2	52.8

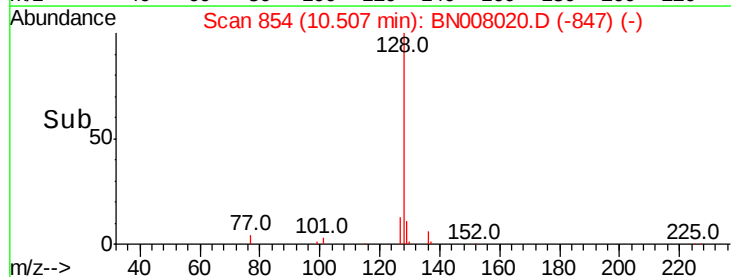
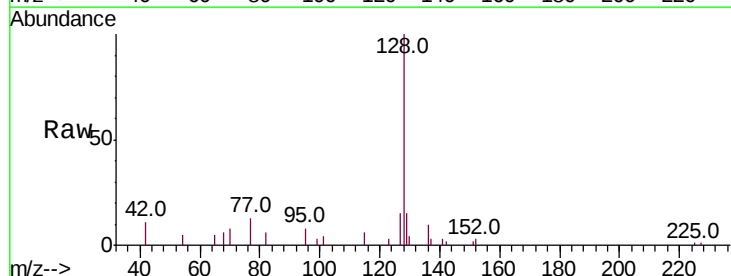
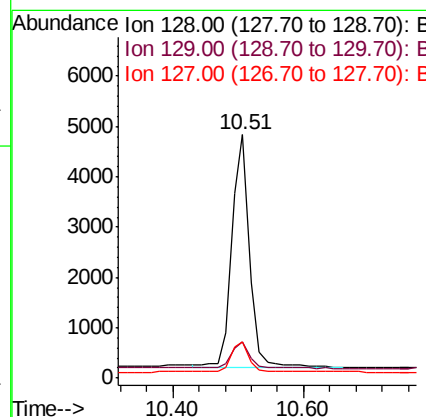
Manual Integrations
 APPROVED

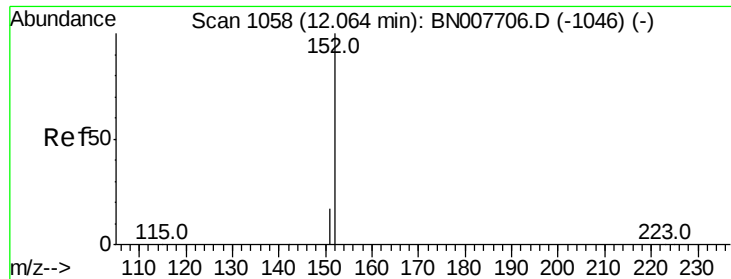
mohammad
 10/7/2019 8:45:57 AM



#9
 Naphthalene
 Concen: 0.043 ng
 RT: 10.51 min Scan# 854
 Delta R.T. -0.01 min
 Lab File: BN008020.D
 Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
128	100		
129	15.0	9.1	13.7#
127	14.9	10.6	15.8





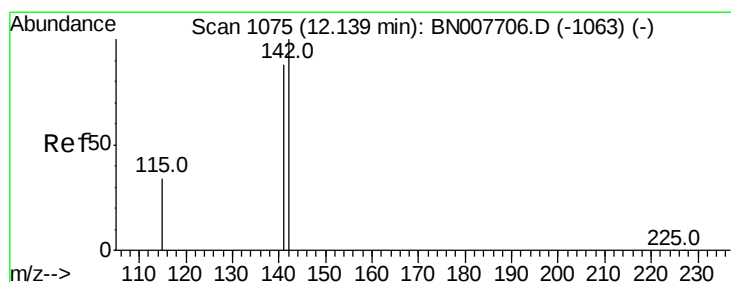
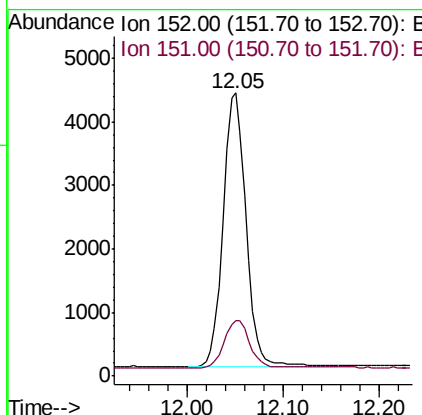
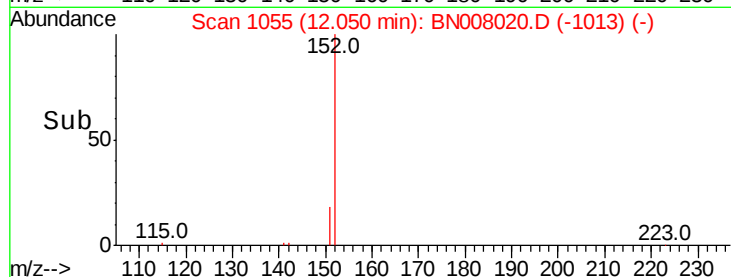
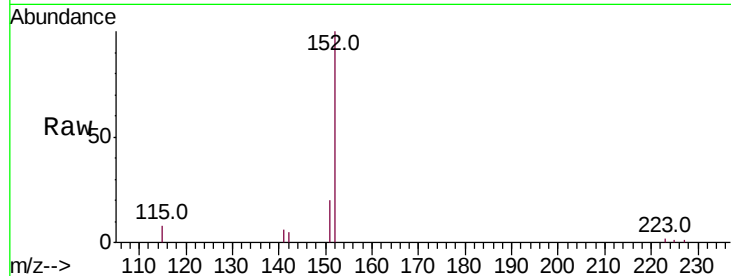
#11
 2-Methylnaphthalene-d10
 Concen: 0.058 ng
 RT: 12.05 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: BN008020.D
 Acq: 05 Oct 2019 01:09

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.4	23.2

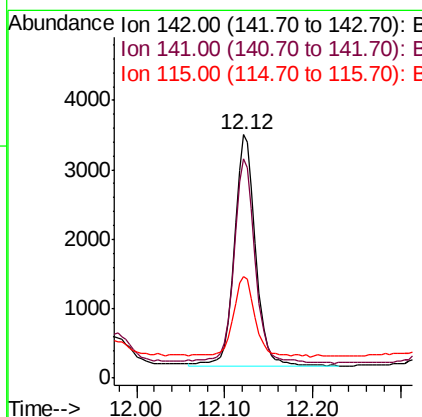
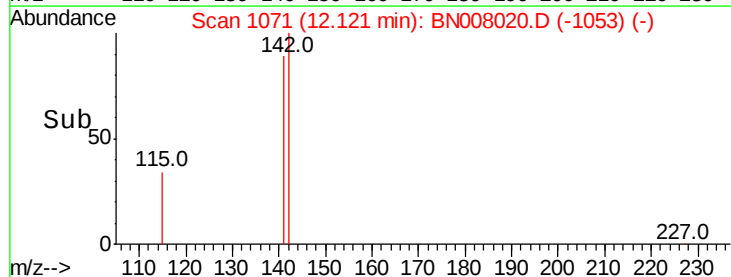
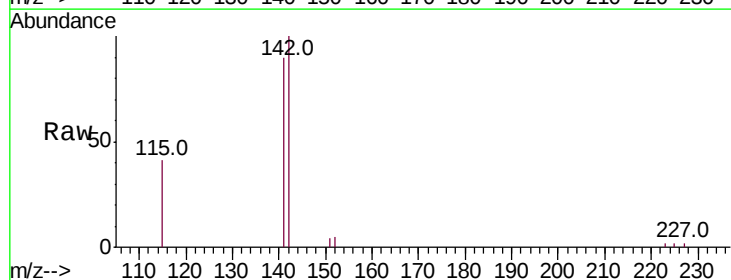
Manual Integrations
 APPROVED

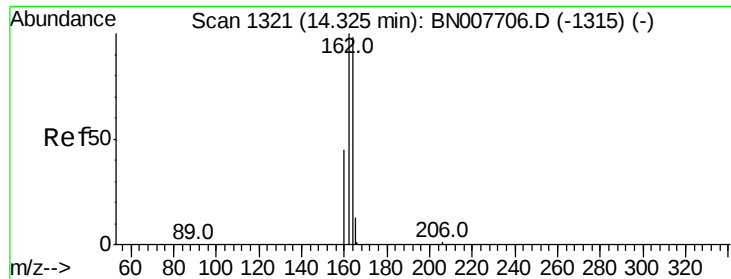
mohammad
 10/7/2019 8:45:57 AM



#12
 2-Methylnaphthalene
 Concen: 0.041 ng
 RT: 12.12 min Scan# 1071
 Delta R.T. -0.02 min
 Lab File: BN008020.D
 Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.3	70.6	106.0
115	41.5	28.3	42.5





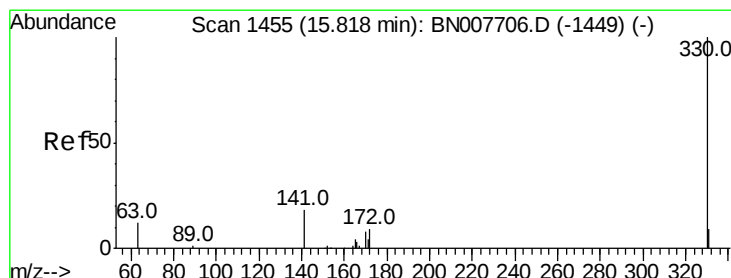
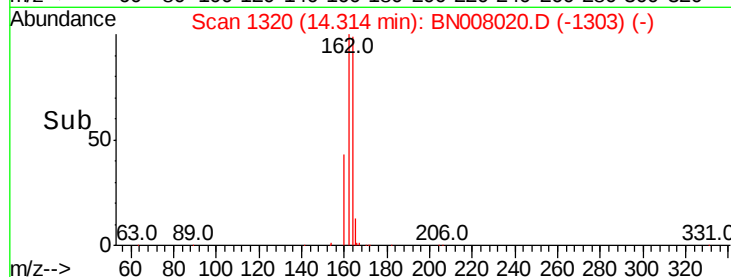
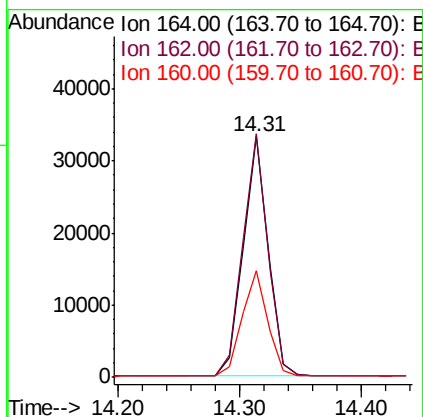
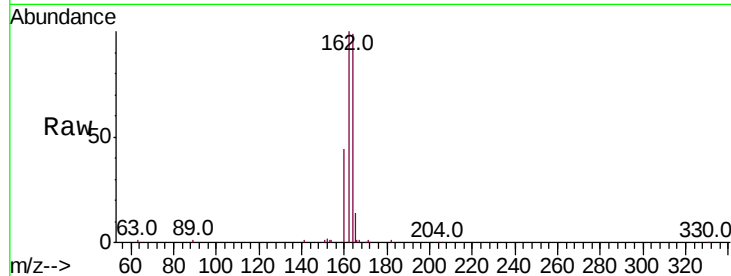
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.1	81.7	122.5
160	44.2	37.0	55.4

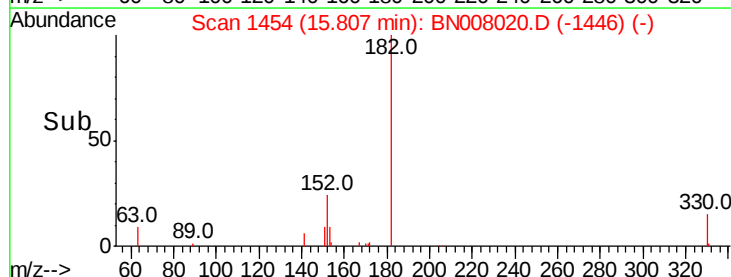
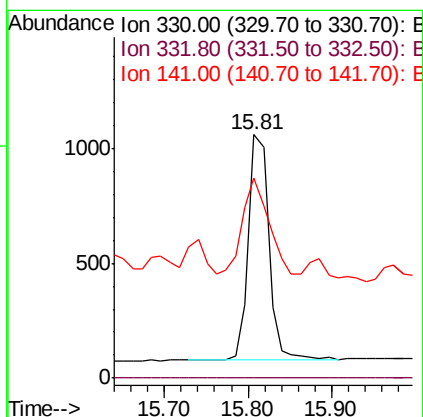
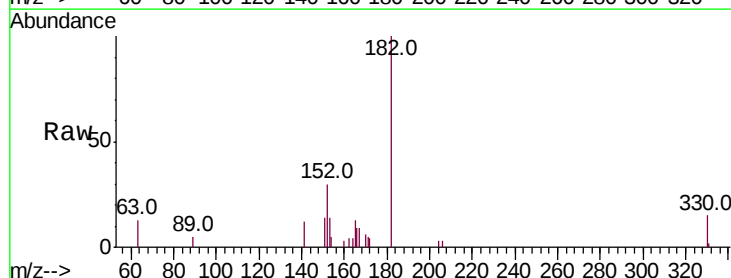
Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:57 AM



#14
2,4,6-Tribromophenol
Concen: 0.065 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	56.5	28.7	43.1#





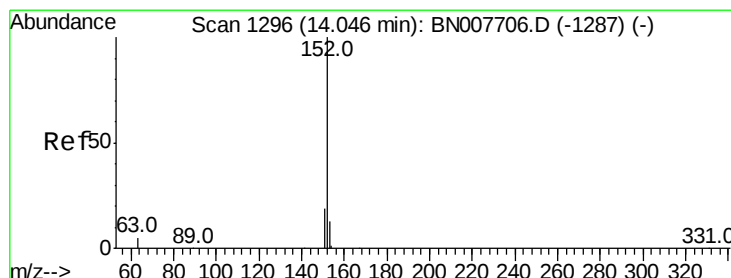
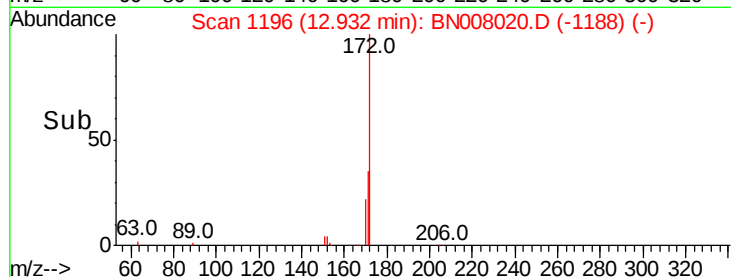
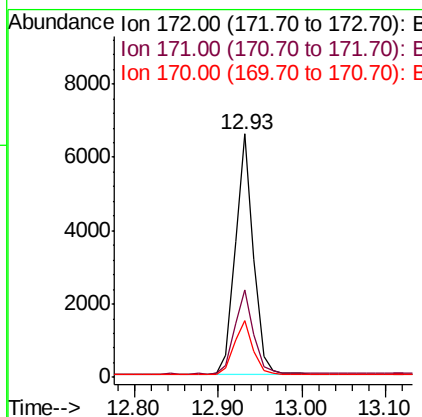
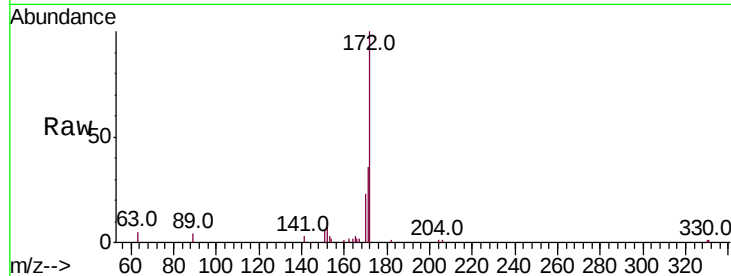
#15
2-Fluorobiphenyl
Concen: 0.050 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.3	19.5	29.3

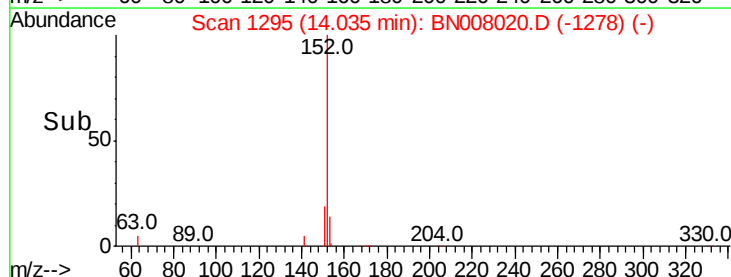
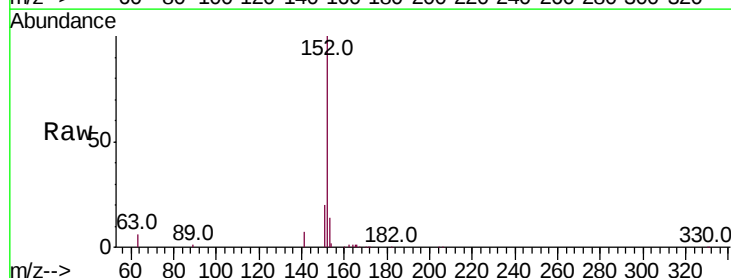
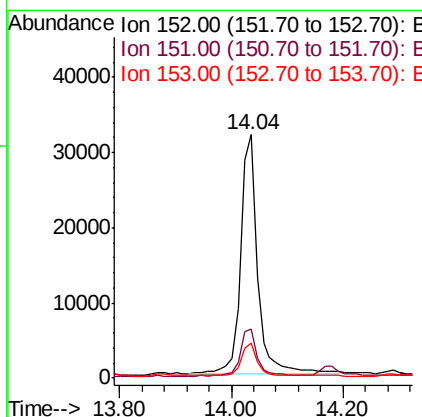
Manual Integrations
APPROVED

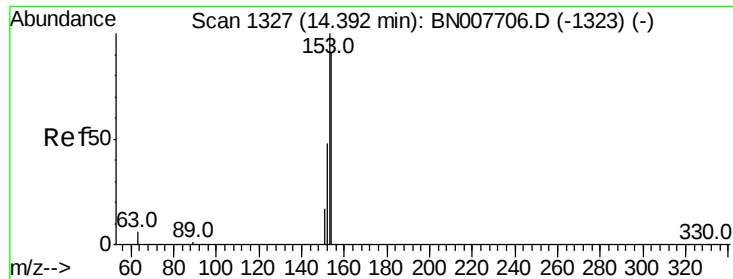
mohammad
10/7/2019 8:45:57 AM



#16
Acenaphthylene
Concen: 0.261 ng
RT: 14.04 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.5	23.3
153	12.8	10.4	15.6





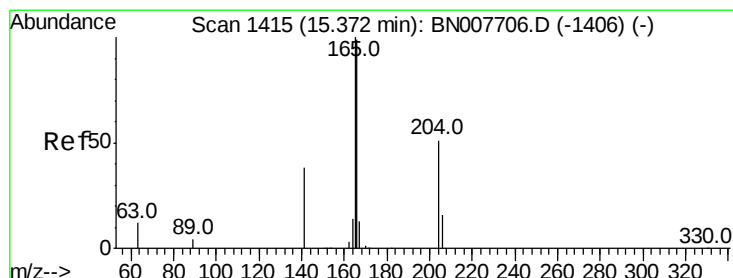
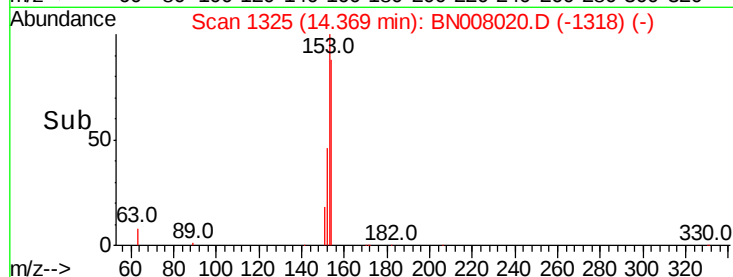
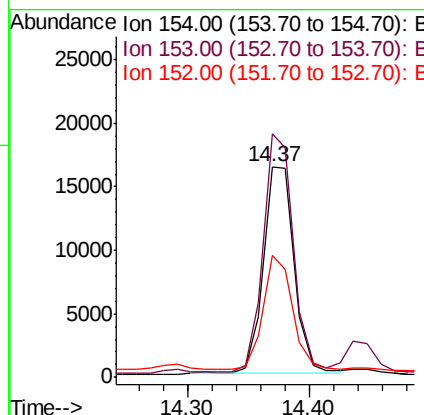
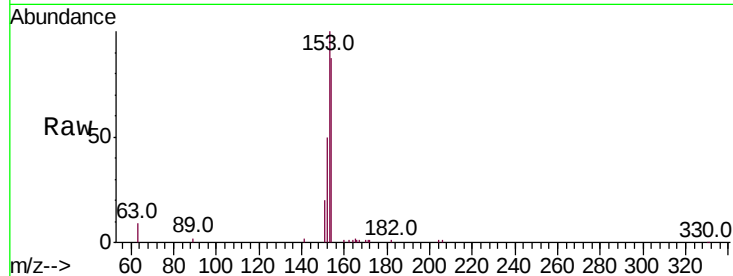
#17
Acenaphthene
Concen: 0.176 ng
RT: 14.37 min Scan# 1325
Delta R.T. -0.02 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.1	87.0	130.4
152	52.1	42.7	64.1

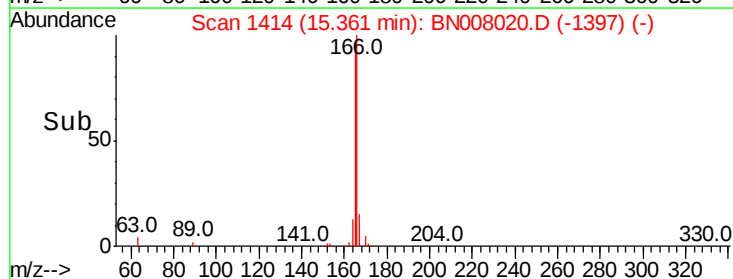
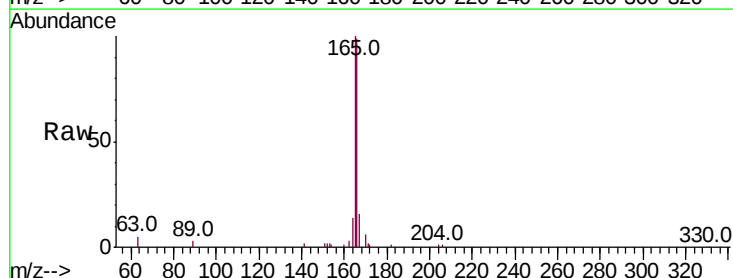
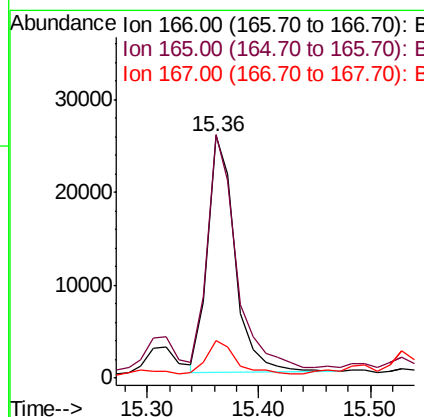
Manual Integrations
APPROVED

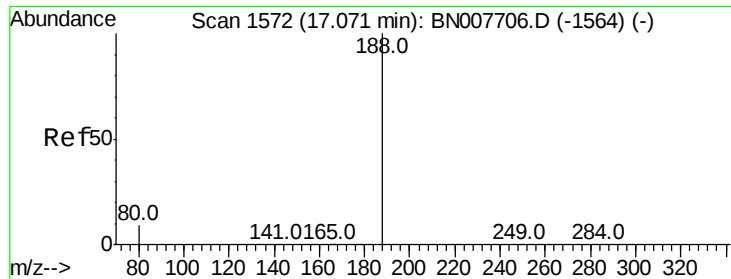
mohammad
10/7/2019 8:45:57 AM



#18
Fluorene
Concen: 0.211 ng
RT: 15.36 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.9	78.0	117.0
167	15.3	10.9	16.3





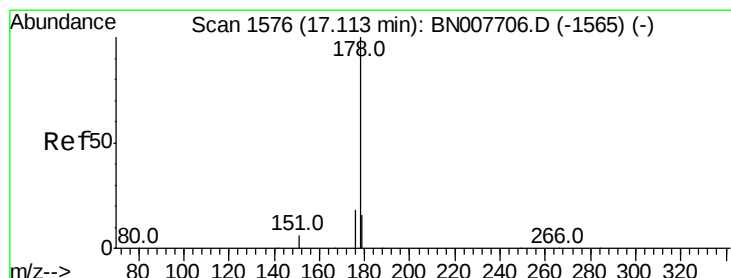
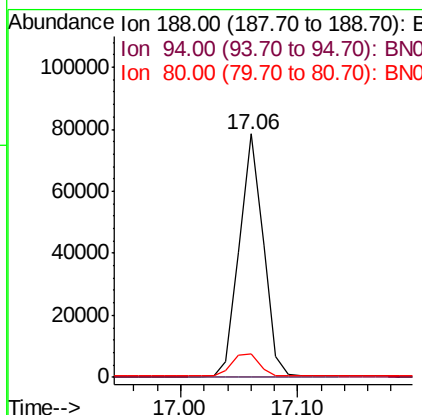
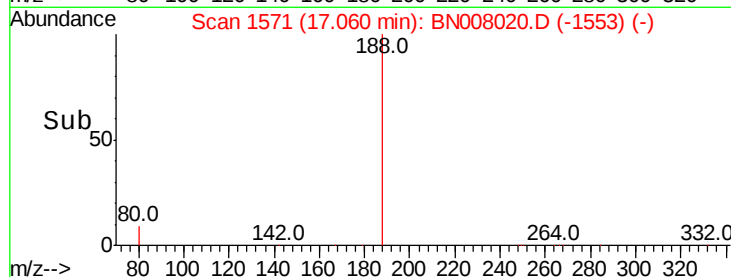
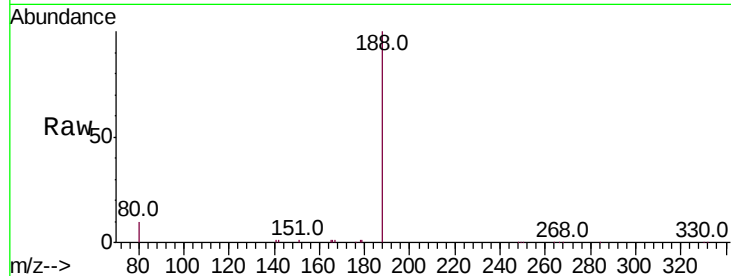
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleID :
PST-024-SW135-092519DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	110495		
94	0.0	0.0	0.0	0.0
80	9.6	7.4	11.2	

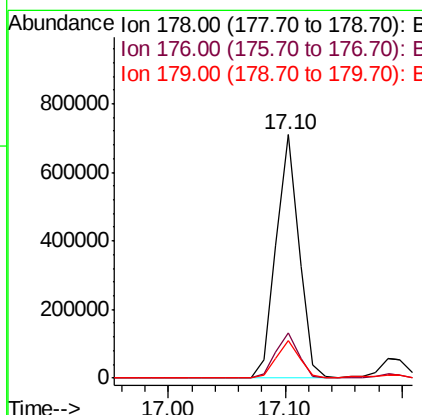
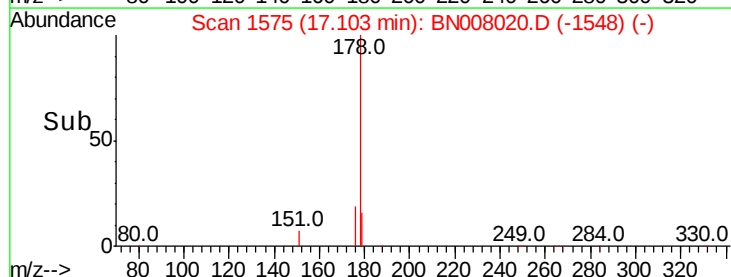
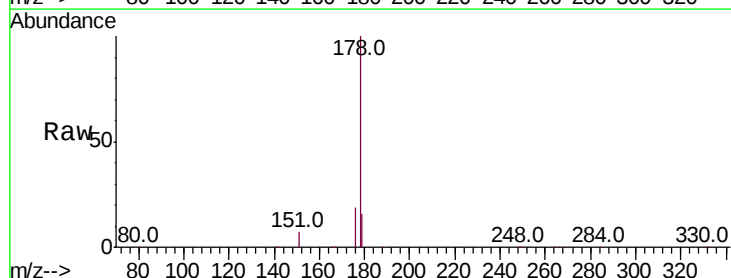
Manual Integrations
APPROVED

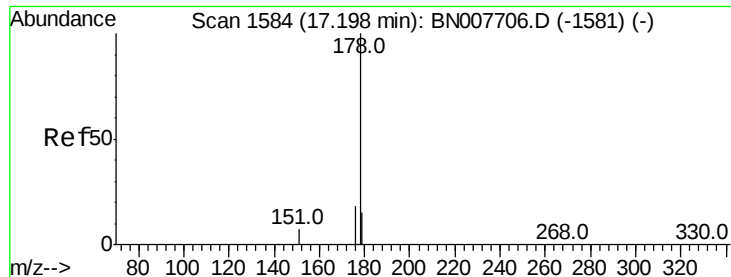
mohammad
10/7/2019 8:45:57 AM



#23
Phenanthrene
Concen: 2.819 ng
RT: 17.10 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	970266		
176	18.6	14.9	22.3	
179	15.6	12.5	18.7	





#24

Anthracene

Concen: 0.289 ng

RT: 17.19 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BN008020.D

Acq: 05 Oct 2019 01:09

Instrument :

BNA_N

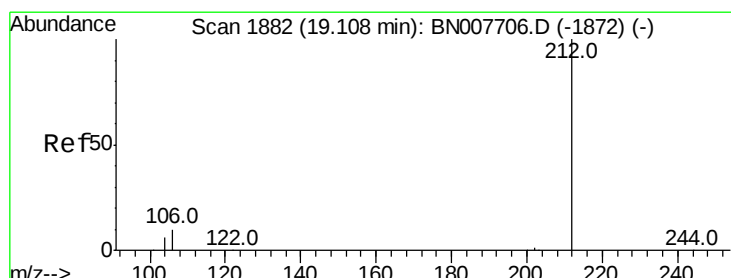
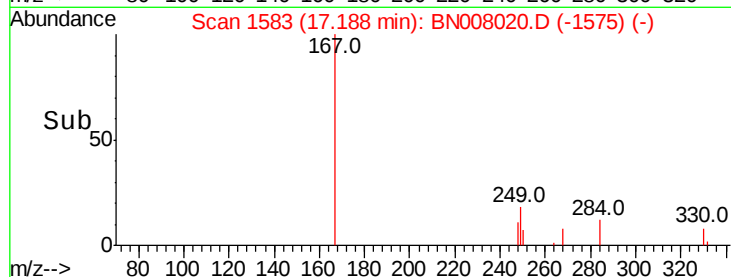
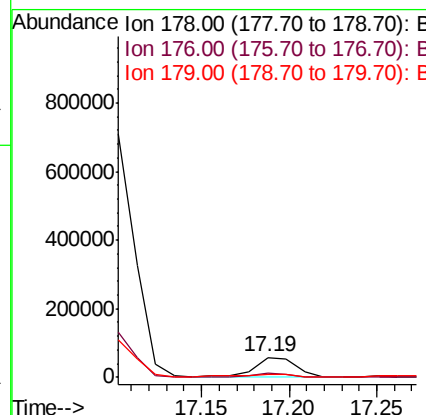
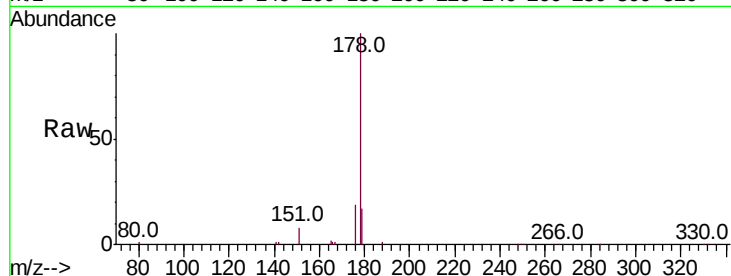
ClientSampleId :

PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.7	14.6	21.8
179	22.3	12.2	18.4

Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:57 AM



#25

Fluoranthene-d10

Concen: 0.059 ng

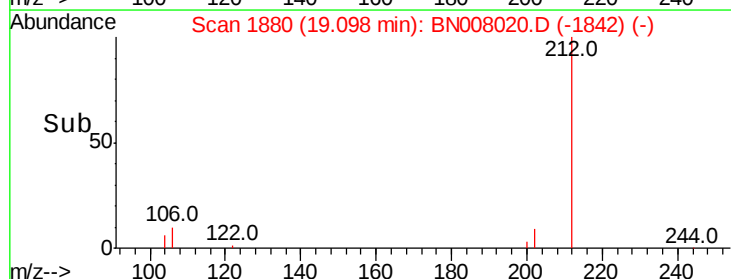
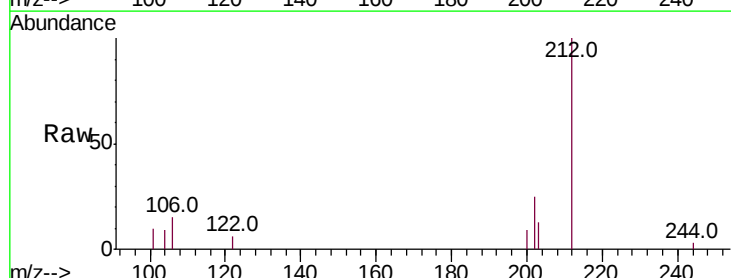
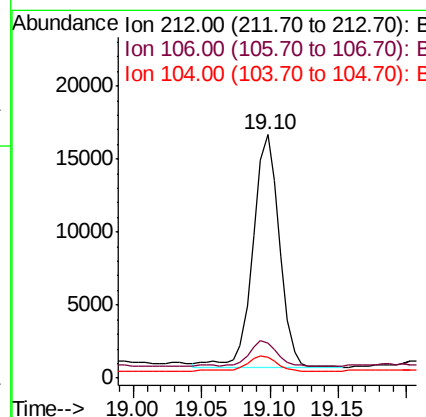
RT: 19.10 min Scan# 1880

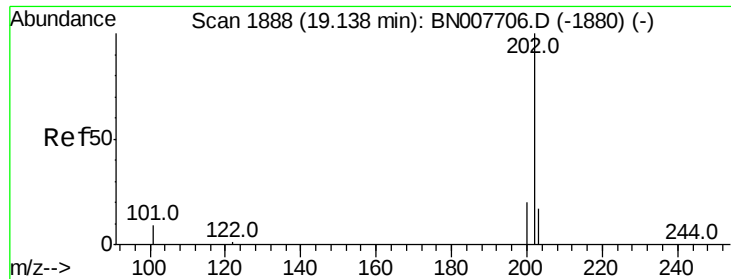
Delta R.T. -0.01 min

Lab File: BN008020.D

Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.4	14.0
104	7.7	5.3	7.9





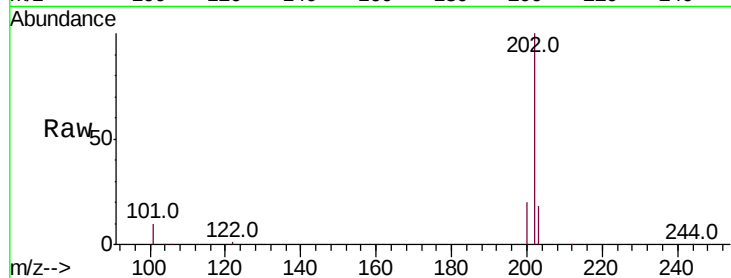
#26
 Fluoranthene
 Concen: 3.527 ng
 RT: 19.13 min Scan# 1886
 Delta R.T. -0.01 min
 Lab File: BN008020.D
 Acq: 05 Oct 2019 01:09

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
202	100		
101	9.9	8.4	12.6
203	17.7	13.8	20.8

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:45:57 AM

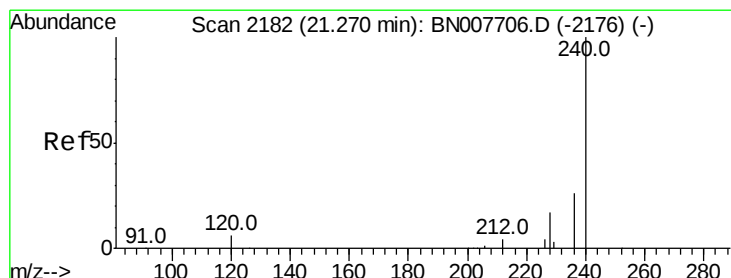
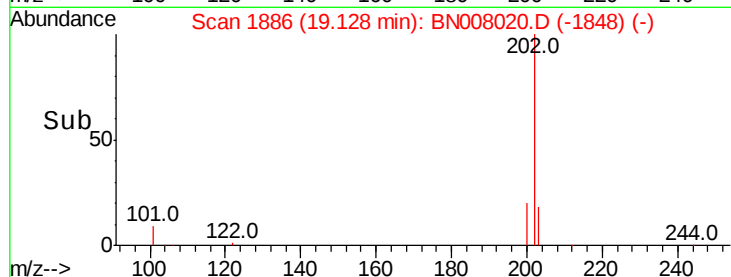
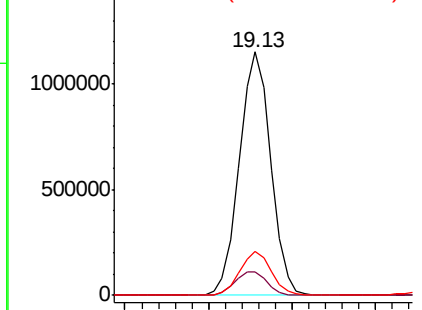


Abundance

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



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.26 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: BN008020.D
 Acq: 05 Oct 2019 01:09

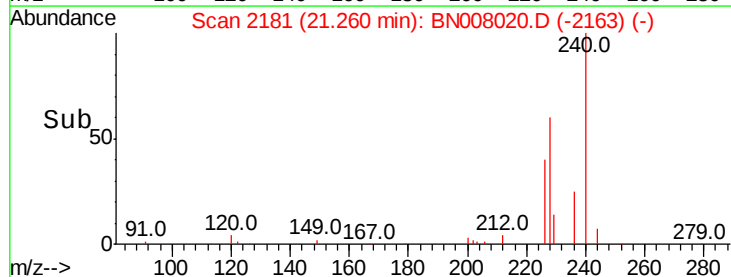
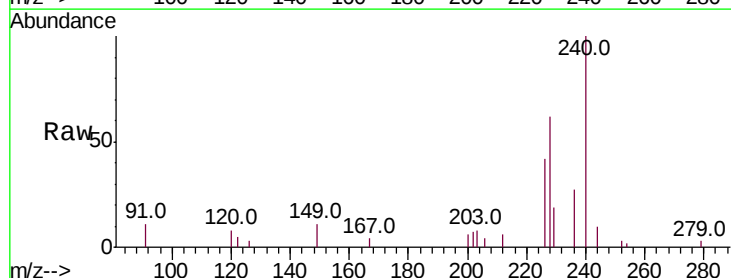
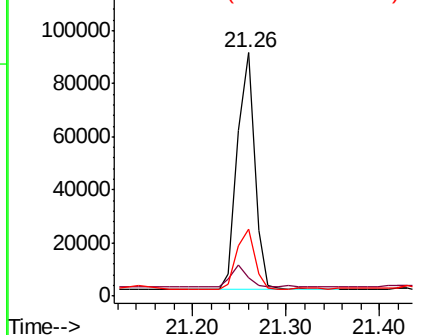
Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.7	5.4	8.2
236	27.5	21.0	31.4

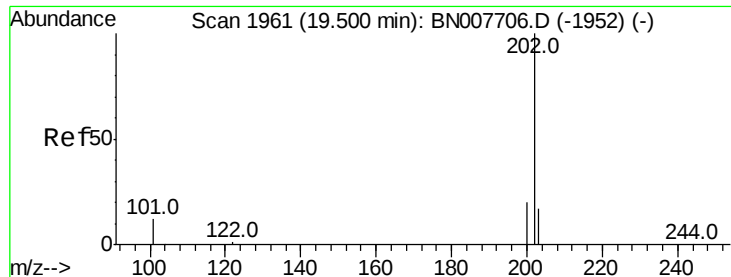
Abundance

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





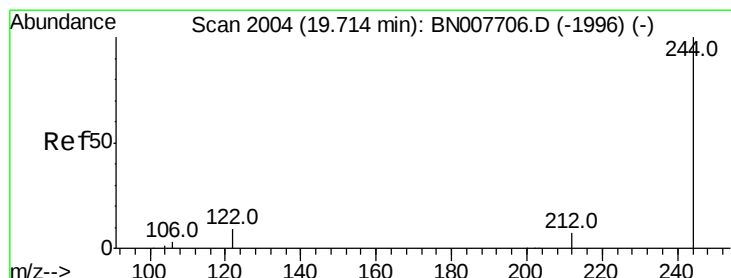
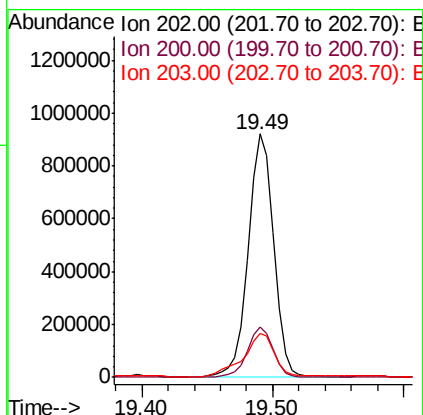
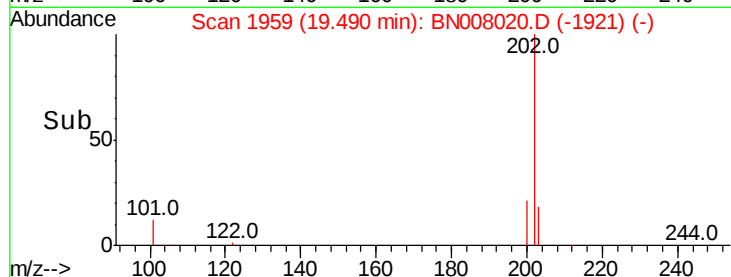
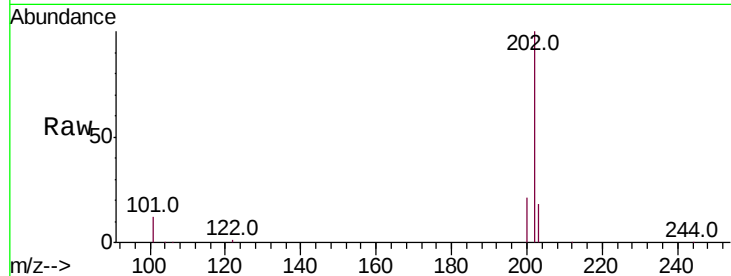
#28
Pvrene
Concen: 3.171 ng
RT: 19.49 min Scan# 1959
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion:202 Resp: 1255938
Ion Ratio Lower Upper
202 100
200 20.5 16.4 24.6
203 21.7 14.1 21.1#

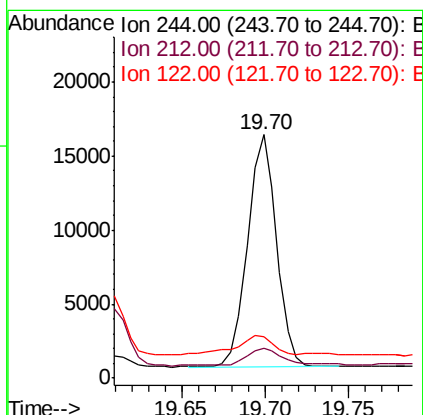
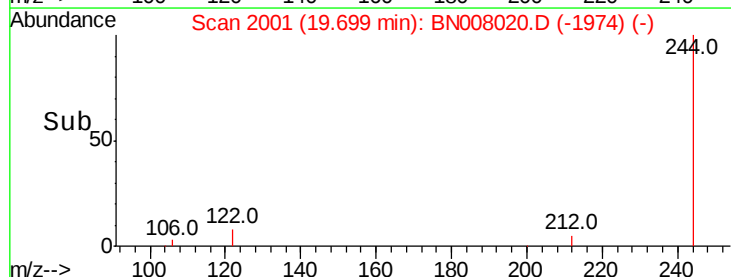
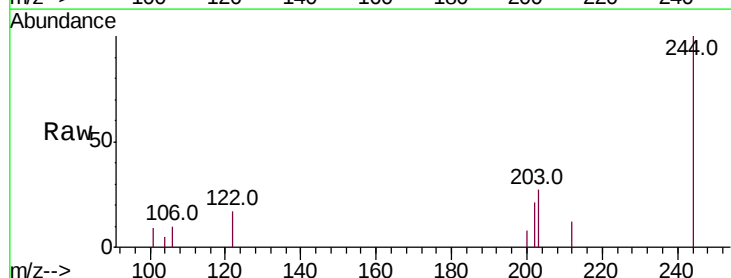
Manual Integrations
APPROVED

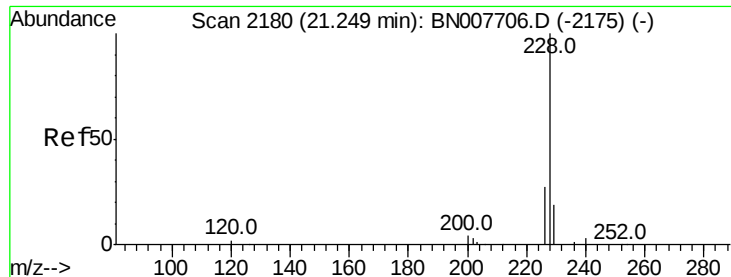
mohammad
10/7/2019 8:45:57 AM



#29
Terphenyl-d14
Concen: 0.067 ng
RT: 19.70 min Scan# 2001
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion:244 Resp: 19066
Ion Ratio Lower Upper
244 100
212 12.1 5.9 8.9#
122 17.2 7.4 11.2#





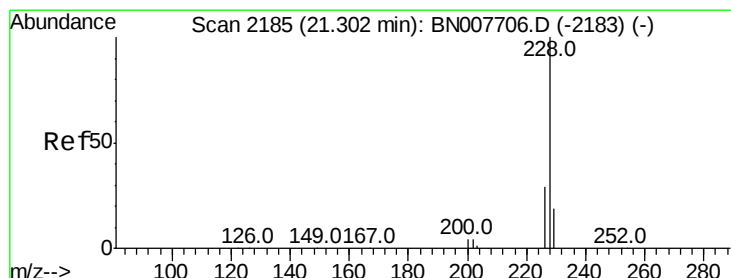
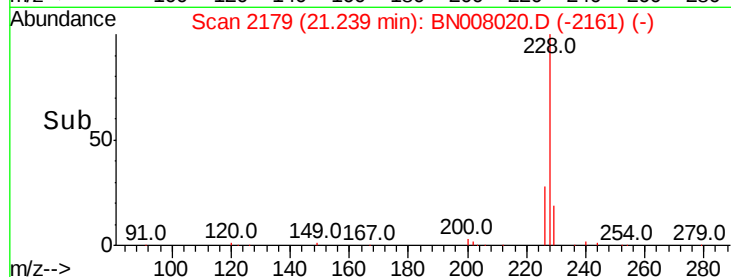
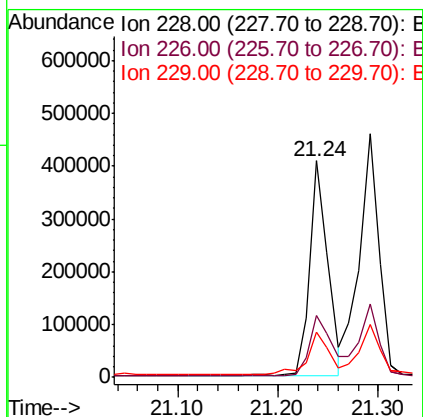
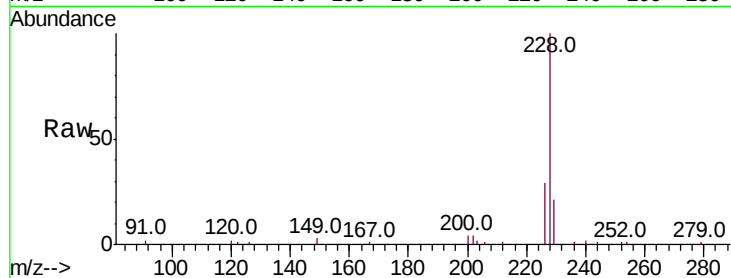
#30
Benzo(a)anthracene
Concen: 1.222 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.1	33.1
229	21.0	15.8	23.6

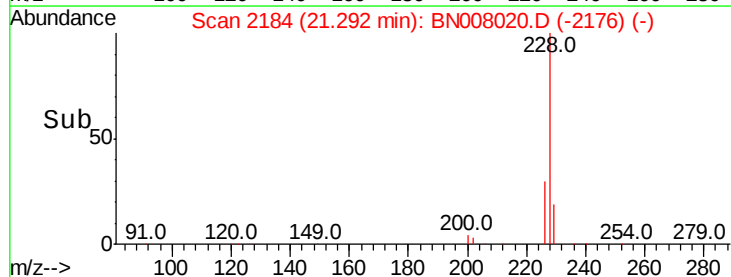
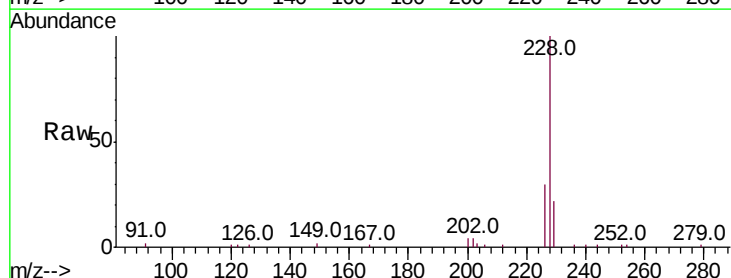
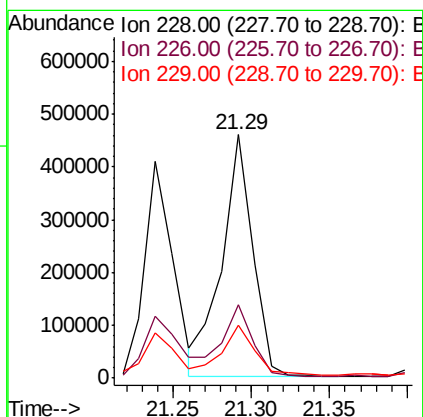
Manual Integrations
APPROVED

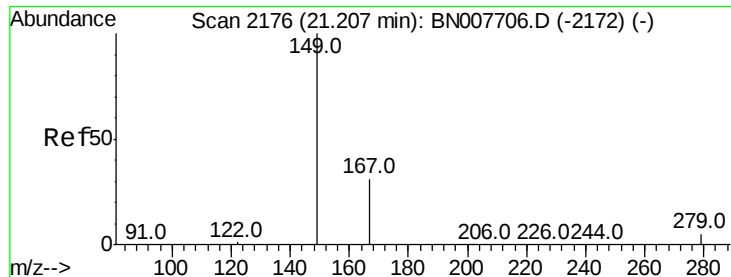
mohammad
10/7/2019 8:45:57 AM



#31
Chrysene
Concen: 1.506 ng
RT: 21.29 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.9	35.9
229	21.8	15.8	23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.133 ng/ml

RT: 21.17 min Scan# 2173

Delta R.T. -0.03 min

Lab File: BN008020.D

Acq: 05 Oct 2019 01:09

Instrument :

BNA_N

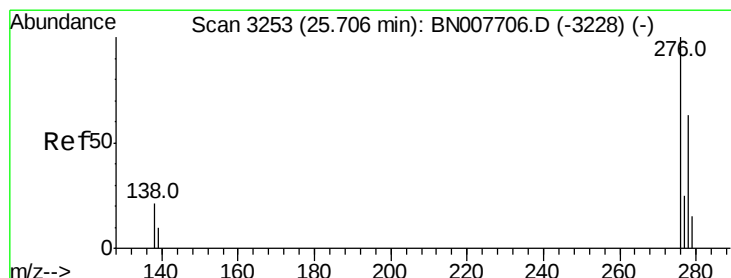
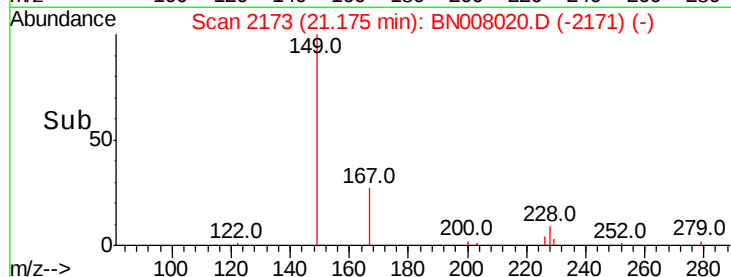
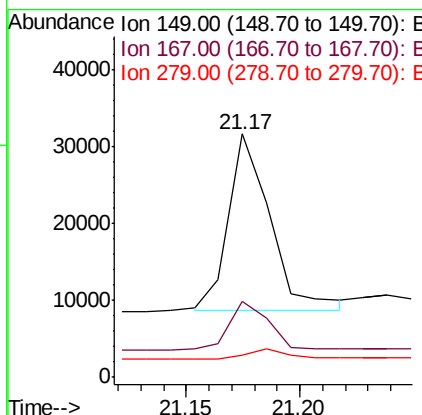
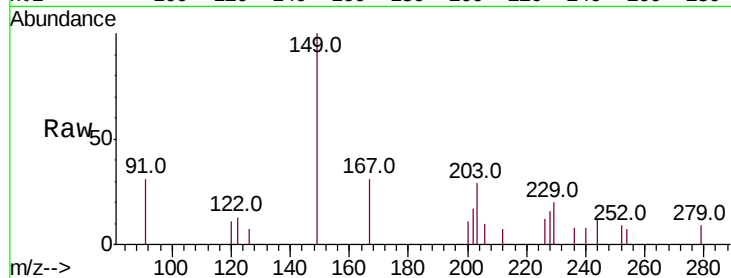
ClientSampleId :

PST-024-SW135-092519DL

Tot Ion:	149	Resp:	29229
Ion Ratio	Lower	Upper	
149	100		
167	23.1	23.7	35.5#
279	5.7	4.2	6.2

Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:57 AM



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.778 ng

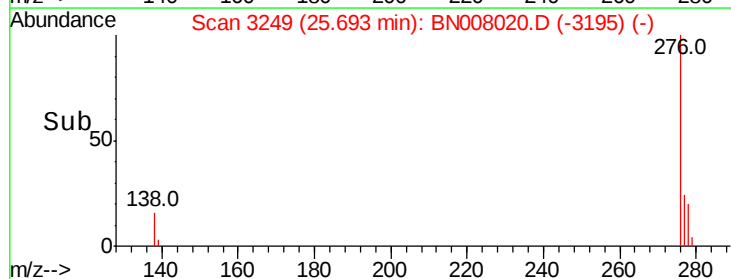
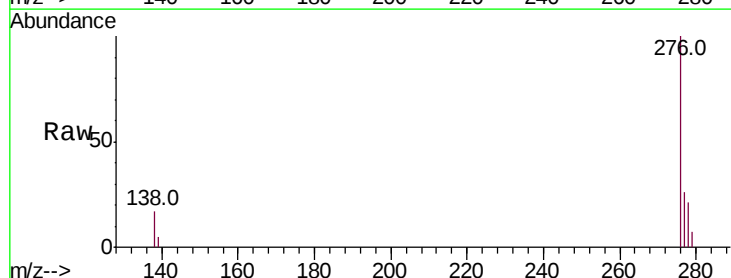
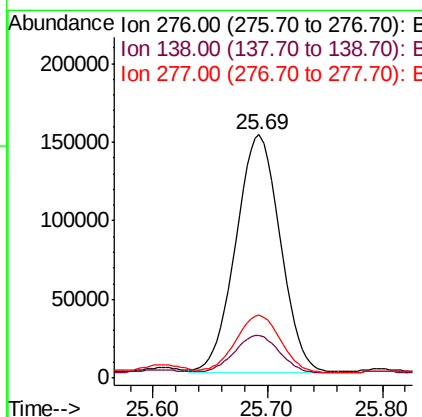
RT: 25.69 min Scan# 3249

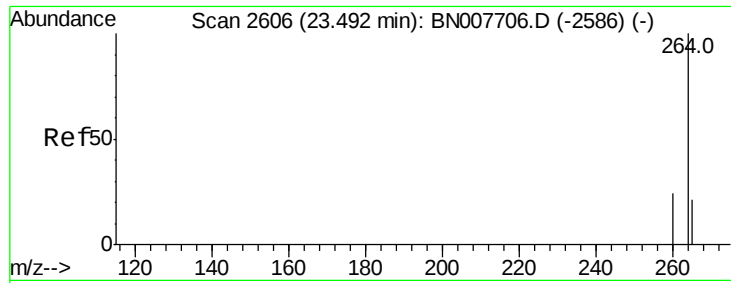
Delta R.T. -0.01 min

Lab File: BN008020.D

Acq: 05 Oct 2019 01:09

Tgt Ion:	276	Resp:	406029
Ion Ratio	Lower	Upper	
276	100		
138	16.1	17.1	25.7#
277	24.4	20.0	30.0





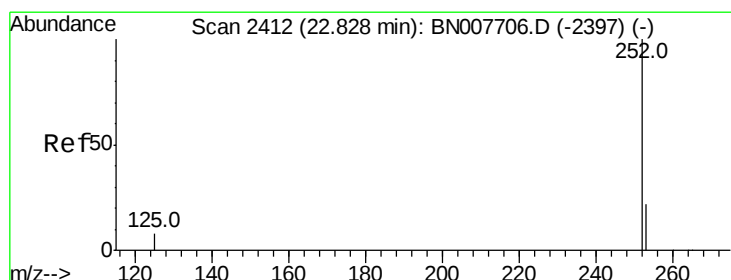
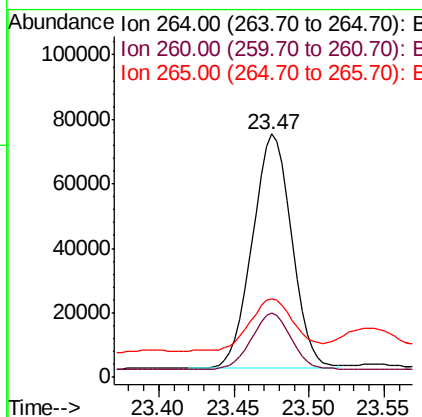
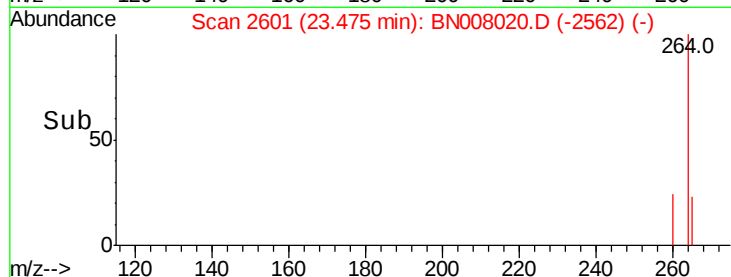
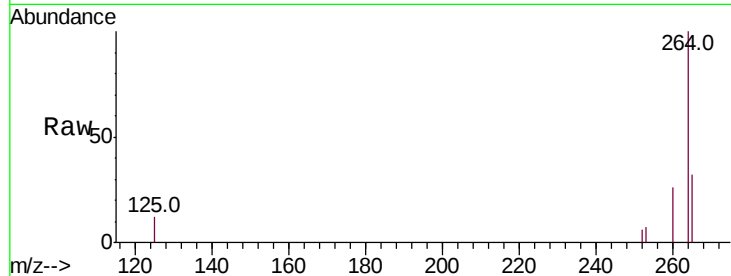
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.47 min Scan# 2601
Delta R.T. -0.02 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion:	264	Resp:	131116
Ion Ratio	Lower	Upper	
264	100		
260	26.3	19.3	28.9
265	32.5	26.9	40.3

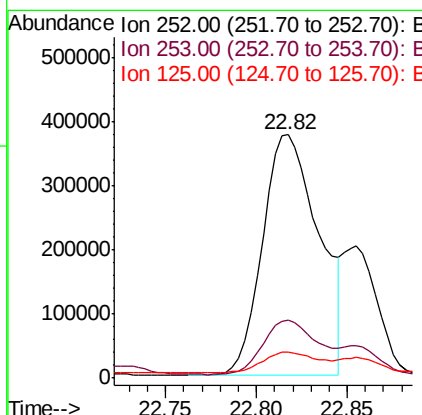
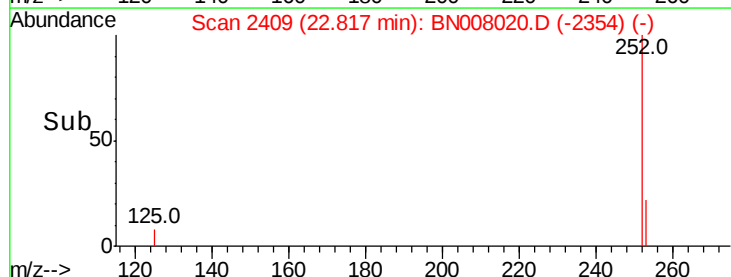
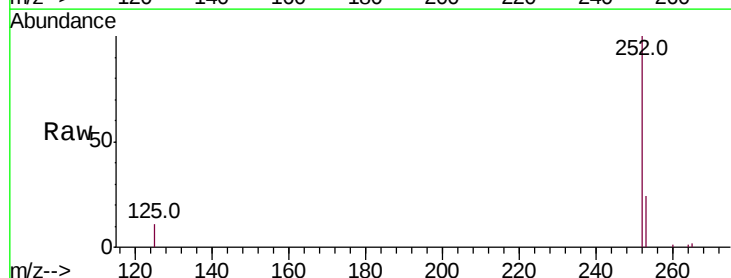
Manual Integrations
APPROVED

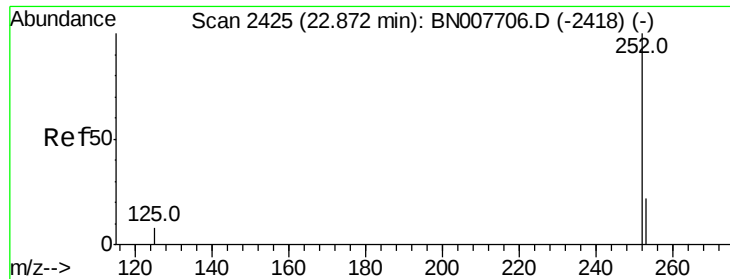
mohammad
10/7/2019 8:45:57 AM



#35
Benzo(b)fluoranthene
Concen: 1.792 ng
RT: 22.82 min Scan# 2409
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion:	252	Resp:	815802
Ion Ratio	Lower	Upper	
252	100		
253	23.6	18.3	27.5
125	10.7	8.2	12.4





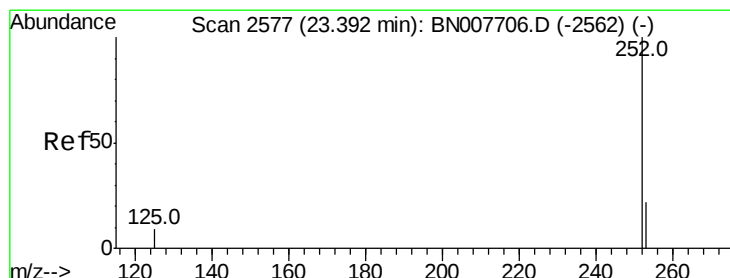
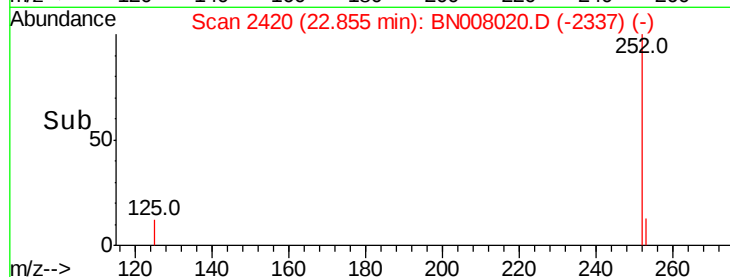
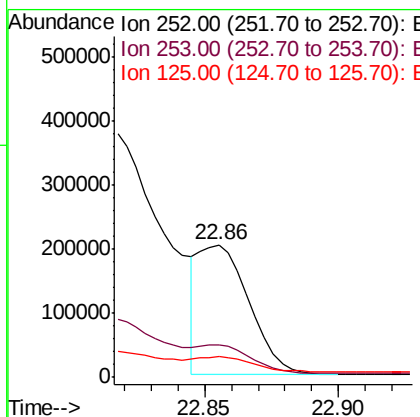
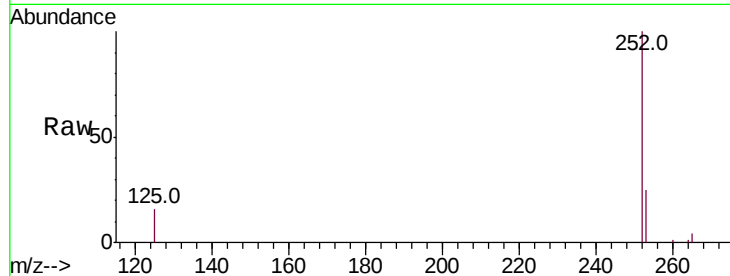
#36
Benzo(k)fluoranthene
Concen: 0.586 ng m
RT: 22.86 min Scan# 2420
Delta R.T. -0.02 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.5	27.7
125	15.8	8.4	12.6

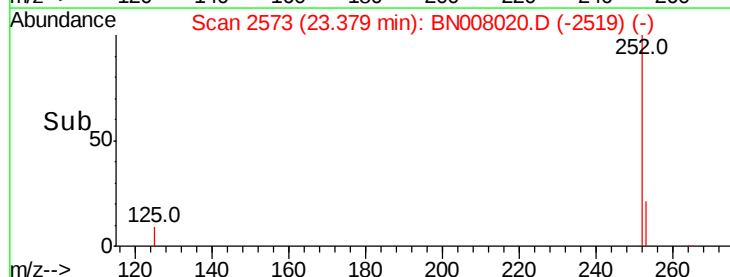
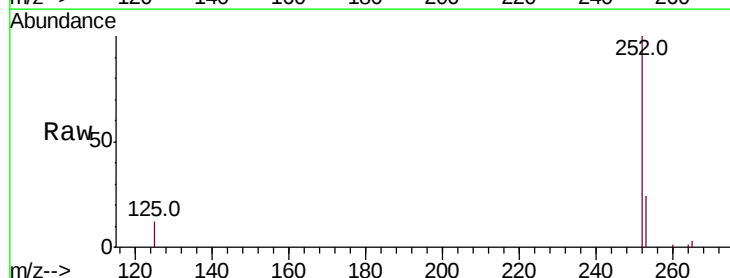
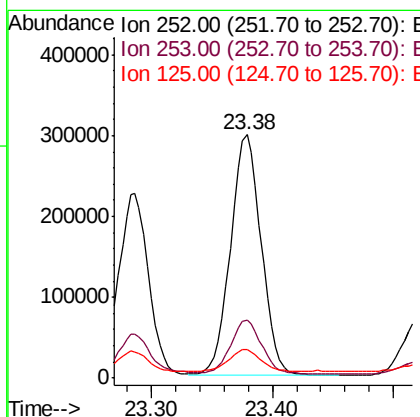
Manual Integrations
APPROVED

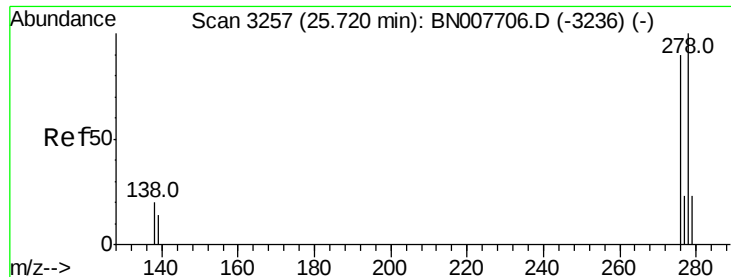
mohammad
10/7/2019 8:45:57 AM



#37
Benzo(a)pyrene
Concen: 1.216 ng
RT: 23.38 min Scan# 2573
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.6	27.8
125	11.7	9.4	14.0





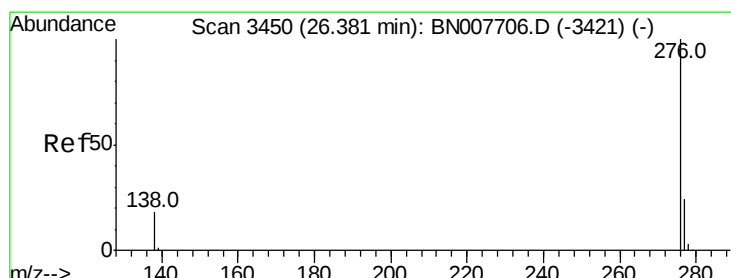
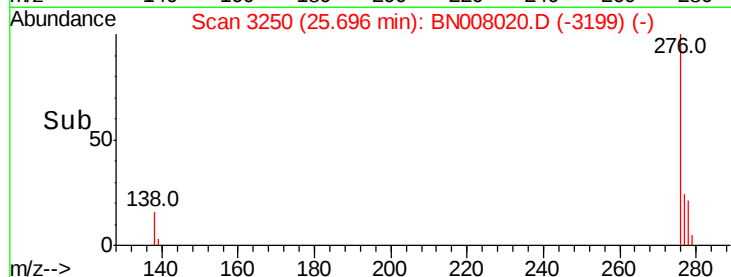
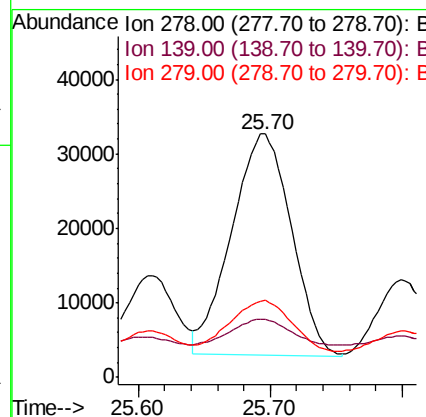
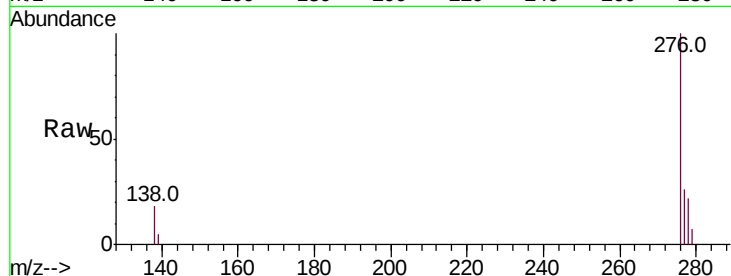
#38
Dibenzo(a,h)anthracene
Concen: 0.214 ng
RT: 25.70 min Scan# 3250
Delta R.T. -0.02 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.8	11.8	17.6#
279	31.5	19.4	29.2#

Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:57 AM



#39
Benzo(g,h,i)perylene
Concen: 0.911 ng
RT: 26.37 min Scan# 3447
Delta R.T. -0.01 min
Lab File: BN008020.D
Acq: 05 Oct 2019 01:09

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.8	29.8
138	18.2	15.1	22.7

