

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082419\
 Data File : BN007382.D
 Acq On : 25 Aug 2019 03:43
 Operator : HP/JU
 Sample : K4440-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S302-J-2.0-2.5-082019-FD

Manual Integrations
 APPROVED

mohammad
 8/31/2019 2:40:28 PM

Quant Time: Aug 25 05:34:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 24 00:38:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	6719	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	25619	0.40	ng	-0.01
13) Acenaphthene-d10	14.05	164	12185	0.40	ng	0.00
19) Phenanthrene-d10	16.79	188	25414	0.40	ng	0.00
27) Chrysene-d12	21.02	240	28869	0.40	ng	0.00
34) Perylene-d12	23.12	264	33194	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.04	112	4704	0.19	ng	0.00
5) Phenol-d6	6.59	99	5689	0.17	ng	0.00
8) Nitrobenzene-d5	8.53	82	4220	0.19	ng	0.00
11) 2-Methylnaphthalene-d10	11.76	152	8214	0.19	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	1121	0.18	ng	0.00
15) 2-Fluorobiphenyl	12.66	172	10054	0.20	ng	0.00
25) Fluoranthene-d10	18.84	212	15759	0.19	ng	0.00
29) Terphenyl-d14	19.46	244	11759	0.16	ng	0.00

Target Compounds				Qvalue		
16) Acenaphthylene	13.77	152	3969	0.055	ng	97
23) Phenanthrene	16.84	178	15225	0.199	ng	98
24) Anthracene	16.93	178	5284	0.069	ng	97
26) Fluoranthene	18.87	202	60656	0.618	ng	100
28) Pyrene	19.24	202	57275	0.493	ng	# 94
30) Benzo(a)anthracene	20.99	228	41316	0.364	ng	95
31) Chrysene	21.05	228	29101	0.266	ng	95
32) Bis(2-ethylhexyl)phthalate	20.96	149	18148	0.228	ng	98
33) Indeno(1,2,3-cd)pyrene	25.18	276	27025	0.205	ng	98
35) Benzo(b)fluoranthene	22.50	252	52714	0.438	ng	97
36) Benzo(k)fluoranthene	22.54	252	16642m	0.140	ng	
37) Benzo(a)pyrene	23.03	252	36669	0.320	ng	96
38) Dibenzo(a,h)anthracene	25.18	278	7045	0.062	ng	# 57
39) Benzo(g,h,i)perylene	25.80	276	29789	0.262	ng	97

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

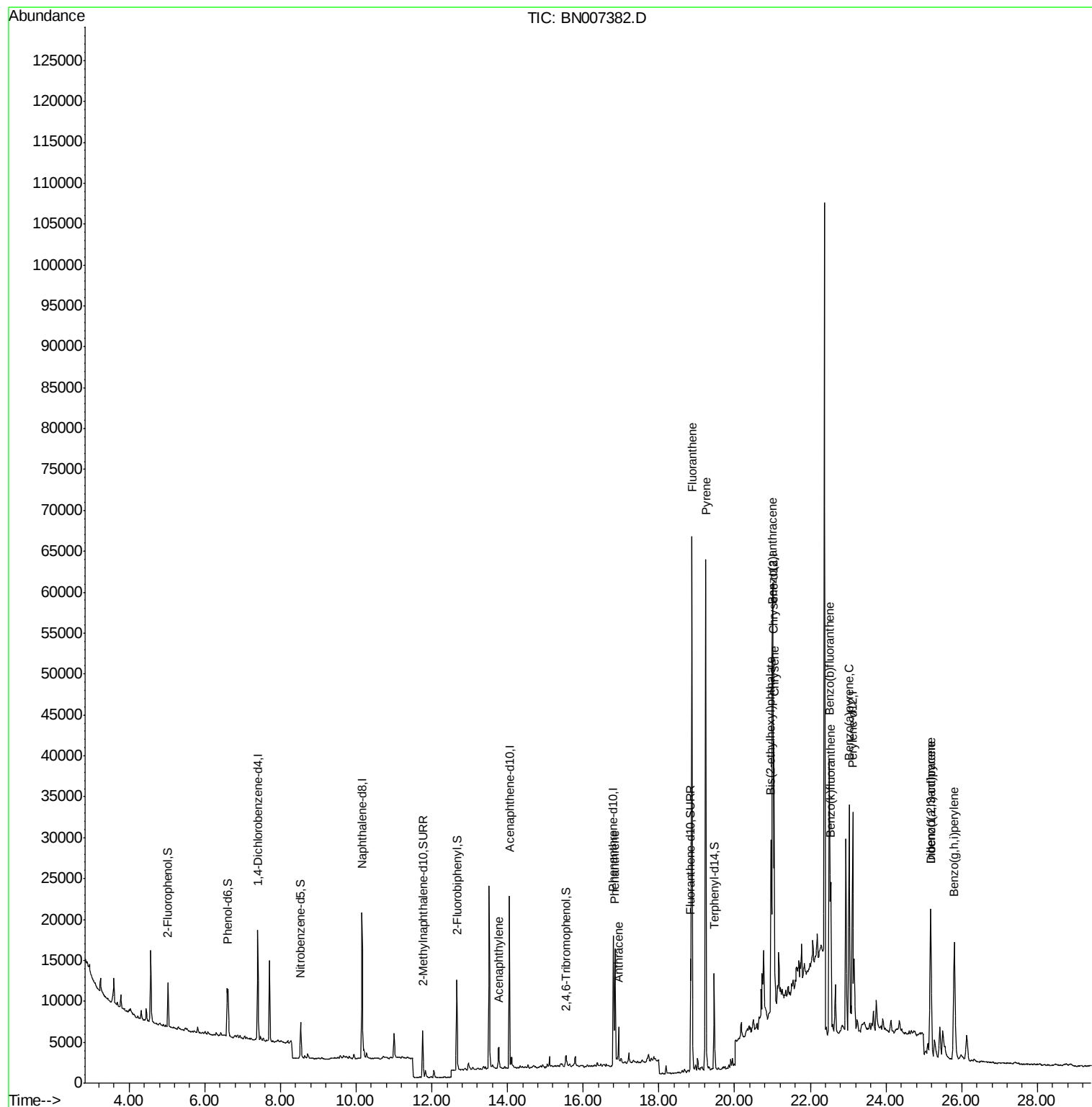
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082419\
Data File : BN007382.D
Acq On : 25 Aug 2019 03:43
Operator : HP/JU
Sample : K4440-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

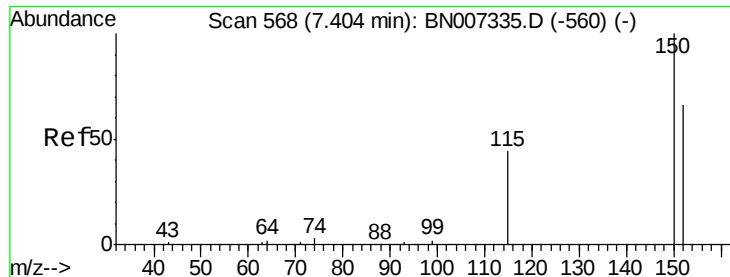
Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:28 PM

Quant Time: Aug 25 05:34:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 24 00:38:17 2019
Response via : Initial Calibration





#1

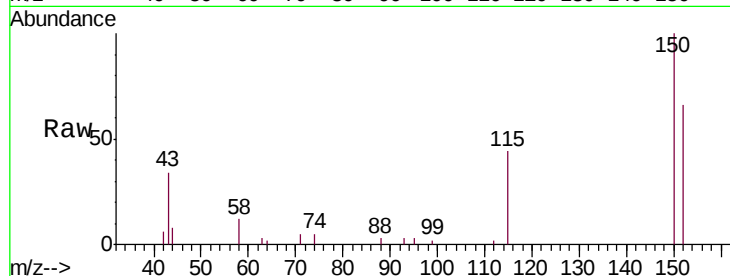
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.40 min Scan# 568
Delta R.T. -0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.8	109.1	163.7
115	66.6	59.6	89.4

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:28 PM

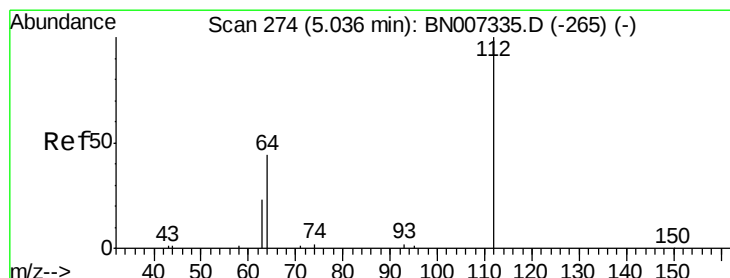
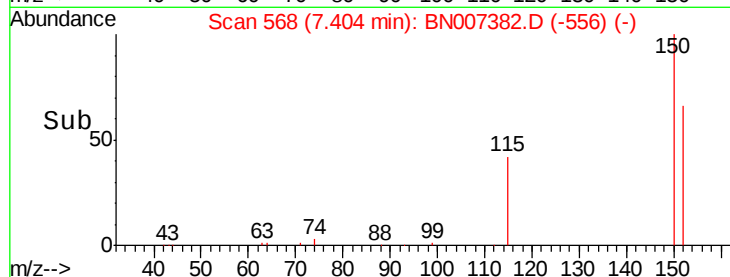
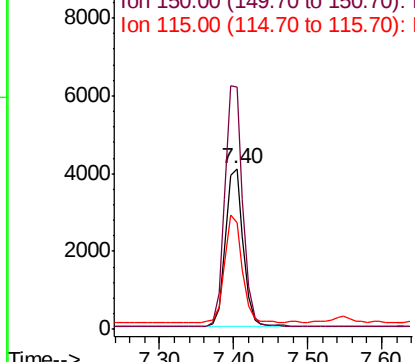


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

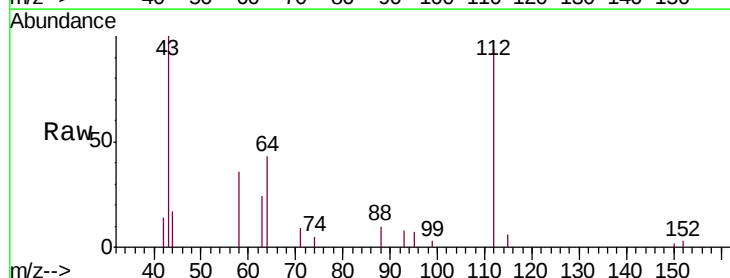
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.187 ng
RT: 5.04 min Scan# 274
Delta R.T. 0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.4	42.3	63.5
63	27.4	23.6	35.4

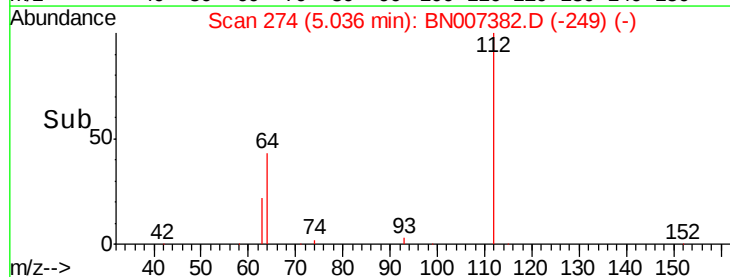
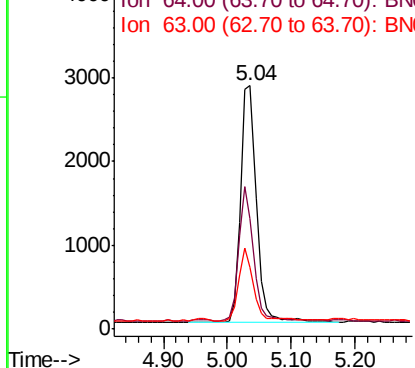


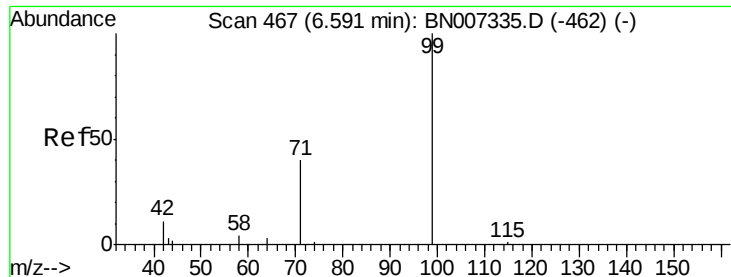
Abundance

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: 0.175 ng

RT: 6.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

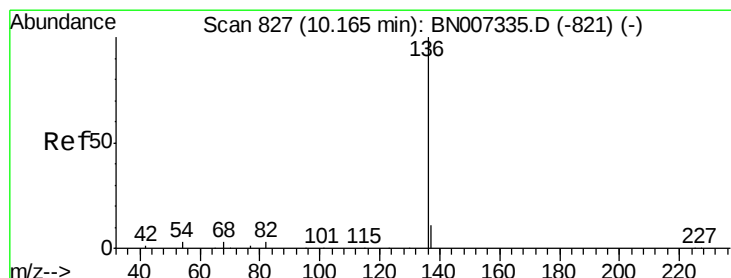
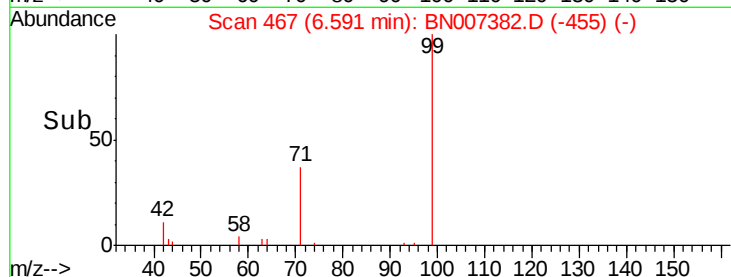
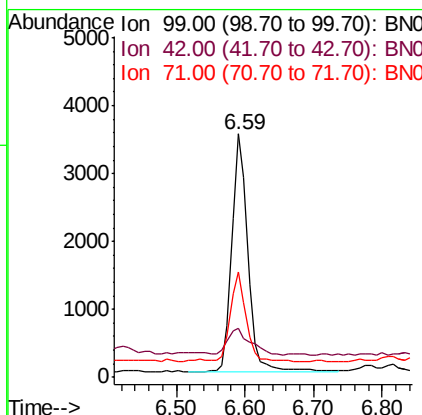
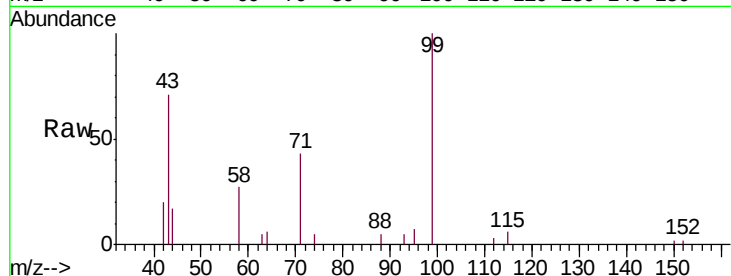
ClientSampleId :

S302-J-2.0-2.5-082019-FD

Tot Ion:	99	Resp:	5689
Ion	Ratio	Lower	Upper
99	100		
42	16.2	11.2	16.8
71	36.4	31.8	47.8

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:28 PM



#7

Naphthalene-d8

Concen: 0.400 ng

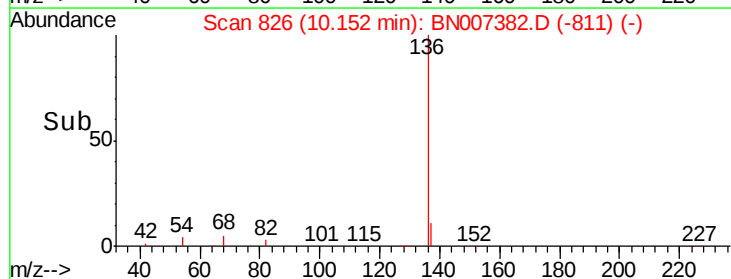
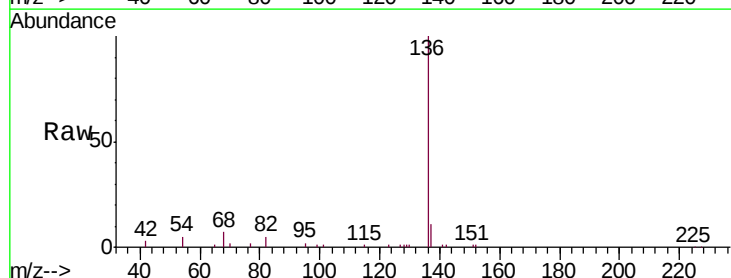
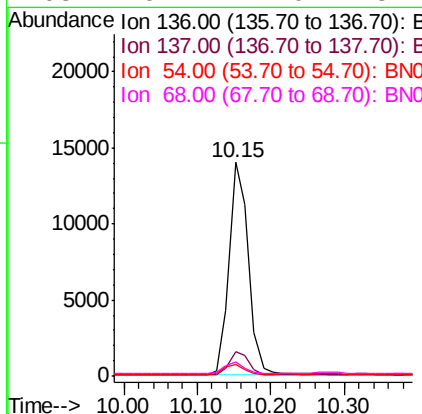
RT: 10.15 min Scan# 826

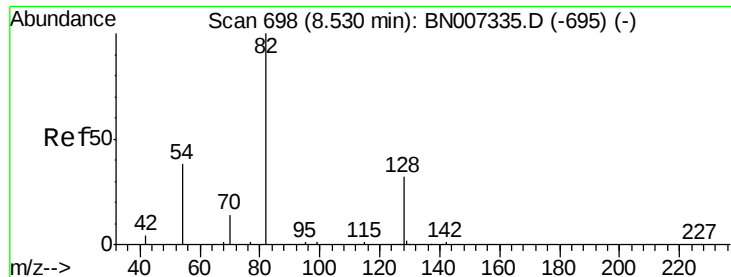
Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Tgt Ion:	136	Resp:	25619
Ion	Ratio	Lower	Upper
136	100		
137	11.5	12.9	19.3#
54	5.3	8.6	12.8#
68	6.7	17.0	25.4#





#8

Nitrobenzene-d5

Concen: 0.189 ng

RT: 8.53 min Scan# 698

Delta R.T. -0.00 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

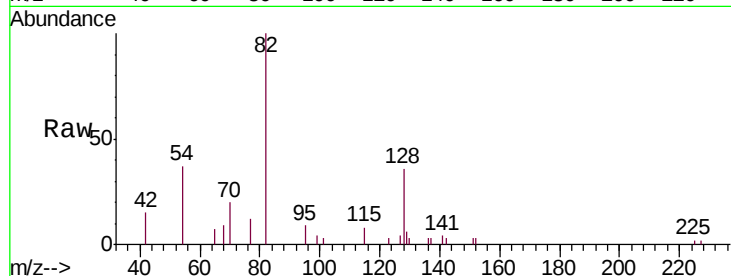
ClientSampleId :

S302-J-2.0-2.5-082019-FD

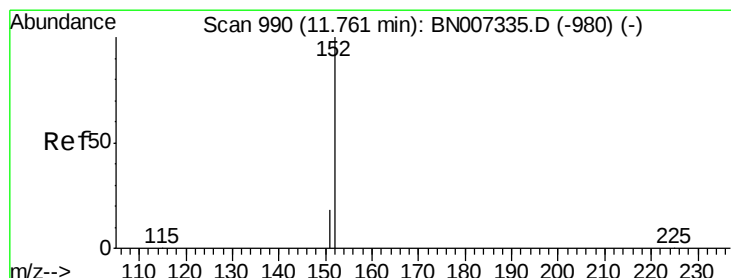
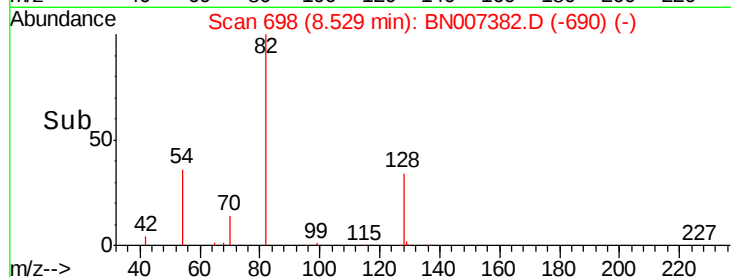
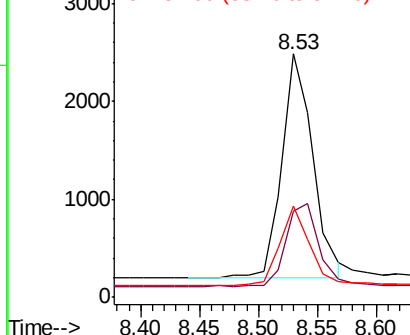
Tot Ion:	82	Resp:	4220
Ion	Ratio	Lower	Upper
82	100		
128	35.6	19.7	29.5#
54	37.4	25.8	38.6

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:28 PM



Abundance Ion 82.00 (81.70 to 82.70): BNC
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BNC



#11

2-Methylnaphthalene-d10

Concen: 0.193 ng

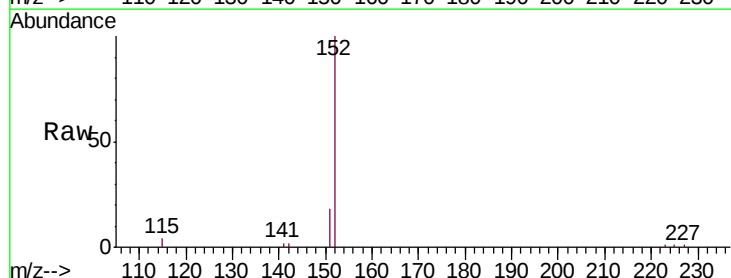
RT: 11.76 min Scan# 989

Delta R.T. -0.00 min

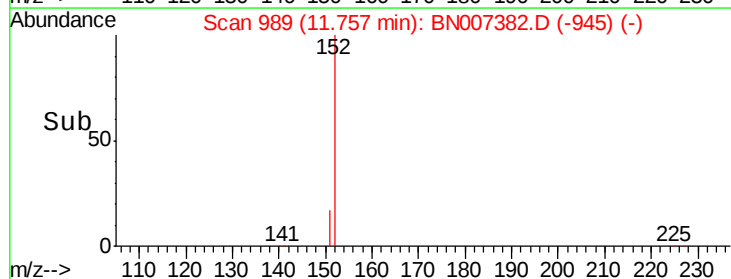
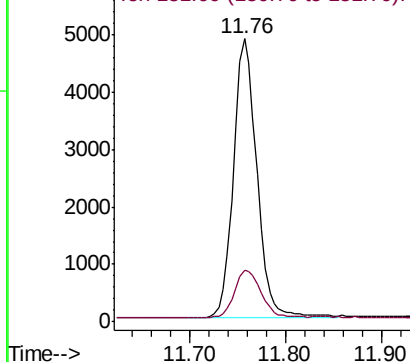
Lab File: BN007382.D

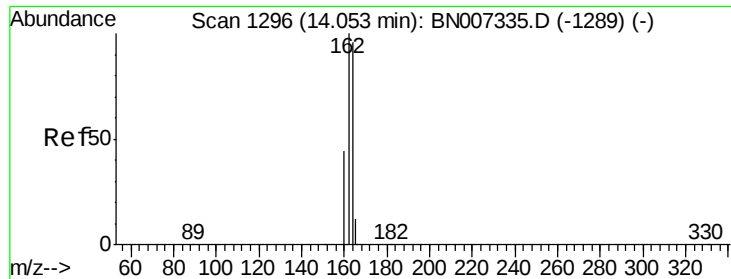
Acq: 25 Aug 2019 03:43

Tgt Ion:	152	Resp:	8214
Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.2	24.2



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





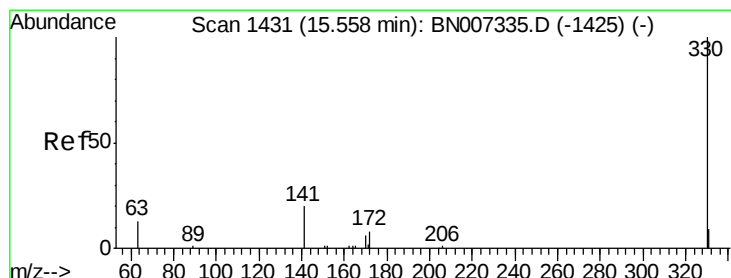
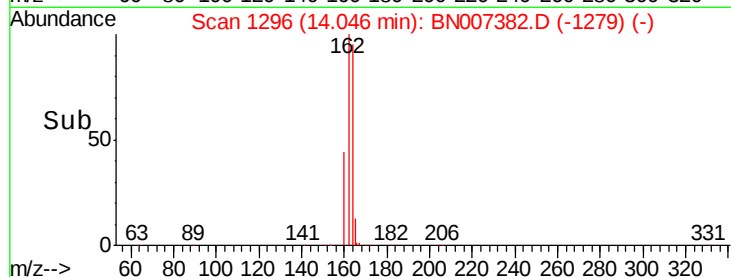
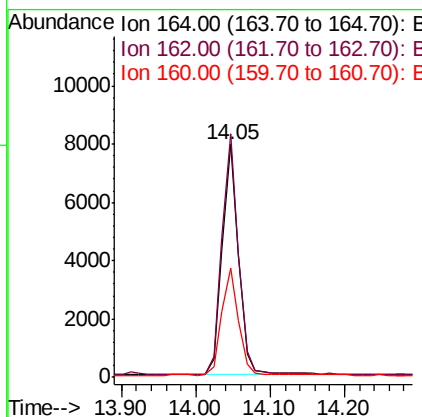
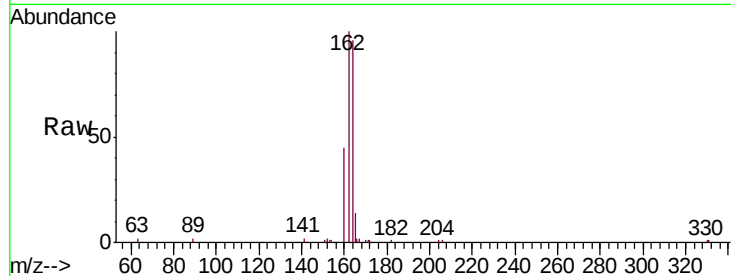
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.05 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.4	83.5	125.3	
160	46.6	38.2	57.4	

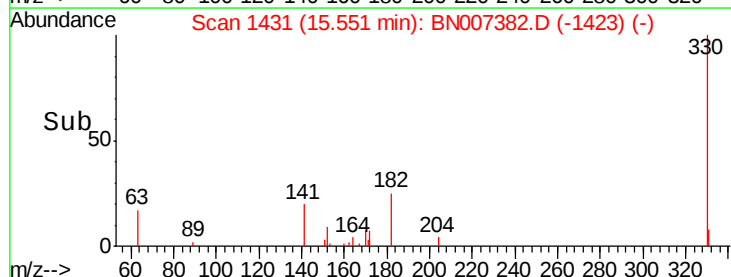
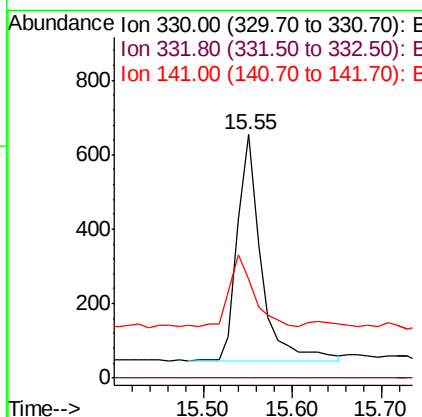
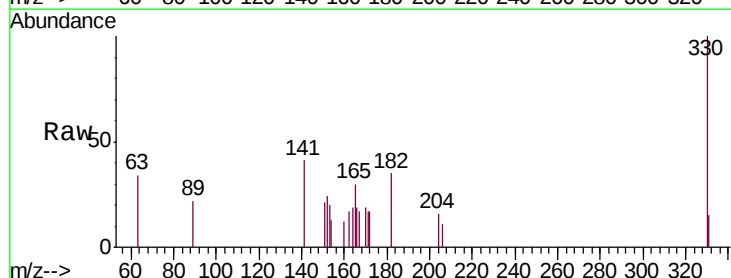
Manual Integrations
APPROVED

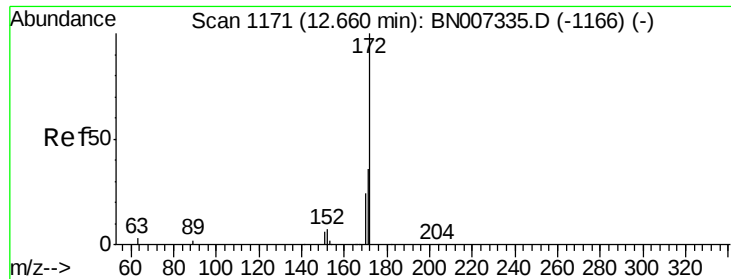
mohammad
8/31/2019 2:40:28 PM



#14
2,4,6-Tribromophenol
Concen: 0.176 ng
RT: 15.55 min Scan# 1431
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	0.0	0.0	0.0	
141	31.9	26.9	40.3	





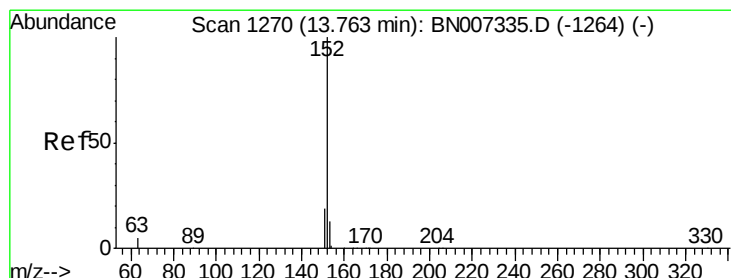
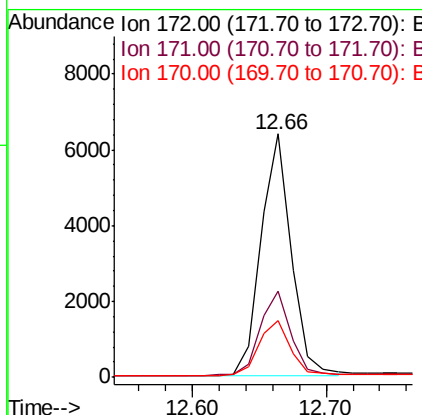
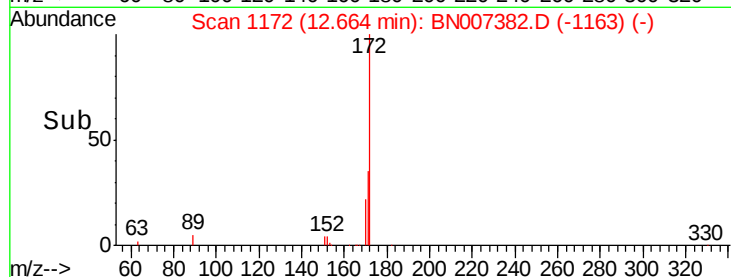
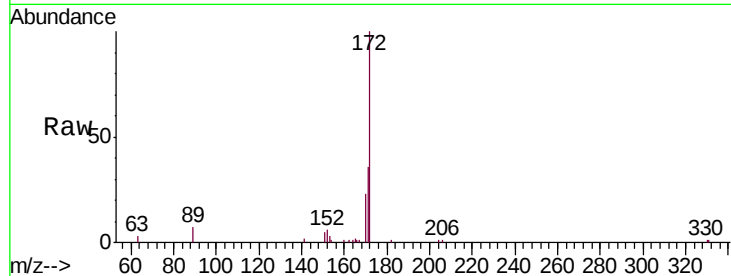
#15
2-Fluorobiphenyl
Concen: 0.205 ng
RT: 12.66 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	30.3	45.5
170	23.1	20.7	31.1

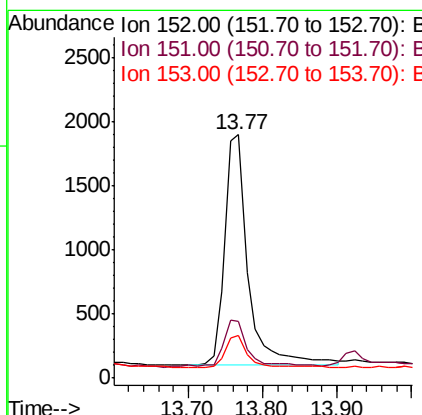
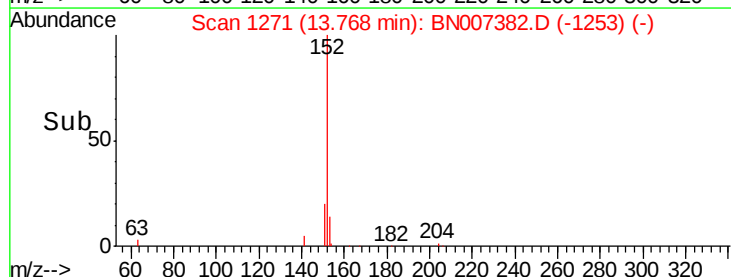
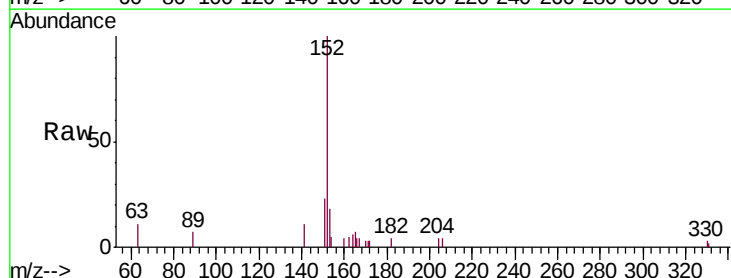
Manual Integrations
APPROVED

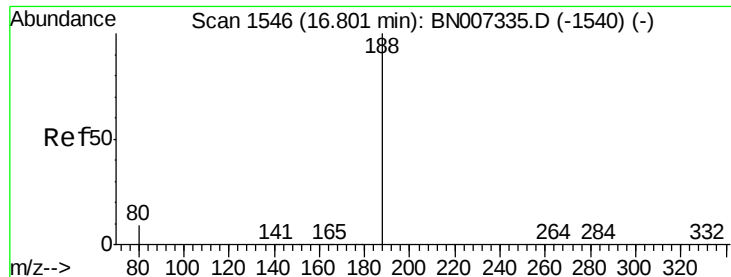
mohammad
8/31/2019 2:40:28 PM



#16
Acenaphthylene
Concen: 0.055 ng
RT: 13.77 min Scan# 1271
Delta R.T. 0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.8	16.1	24.1
153	13.5	10.6	15.8





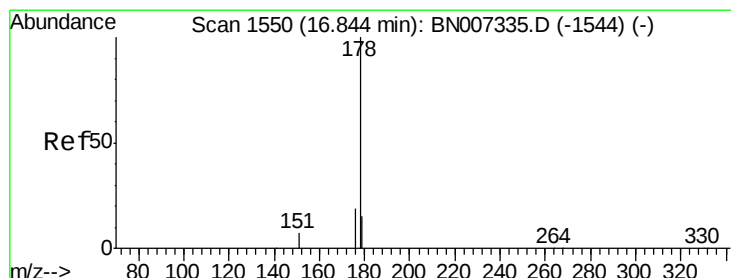
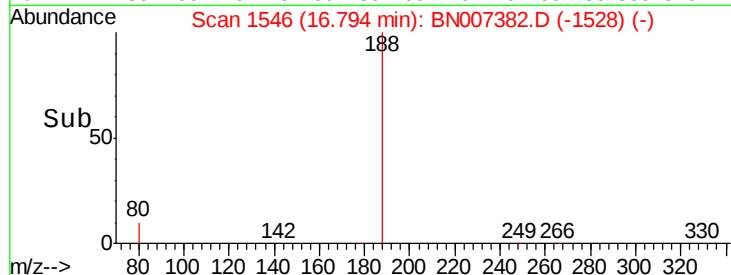
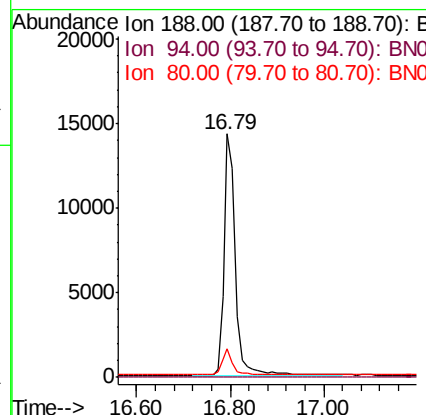
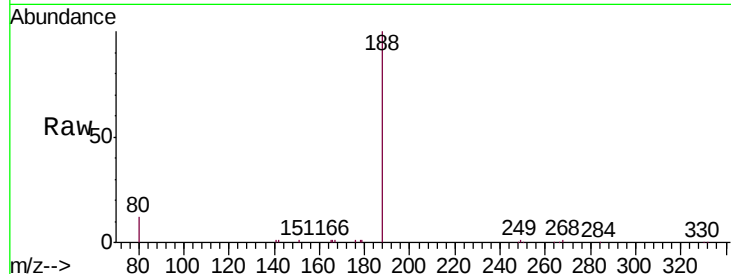
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.79 min Scan# 1546
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	11.8	17.8#

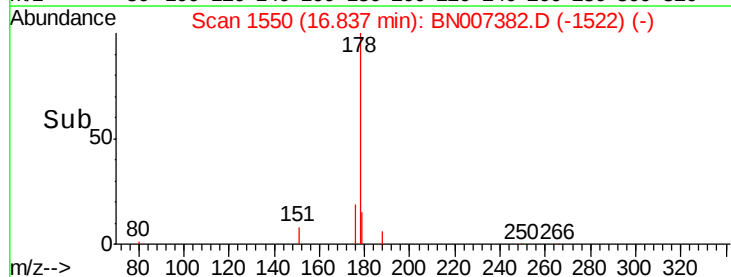
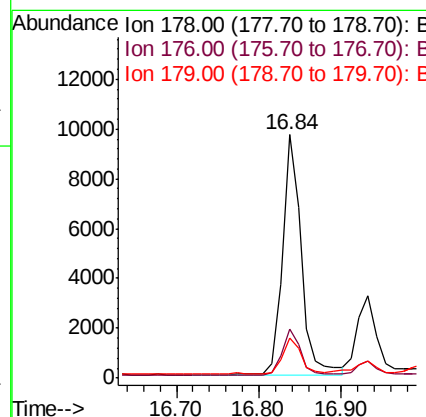
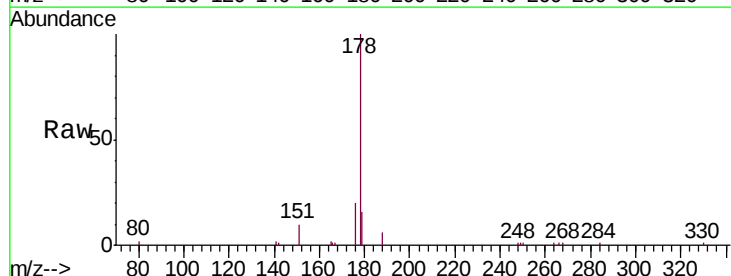
Manual Integrations
APPROVED

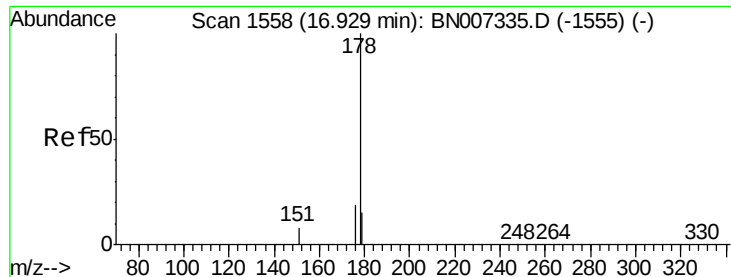
mohammad
8/31/2019 2:40:28 PM



#23
Phenanthrene
Concen: 0.199 ng
RT: 16.84 min Scan# 1550
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.3	22.9
179	14.1	12.6	19.0





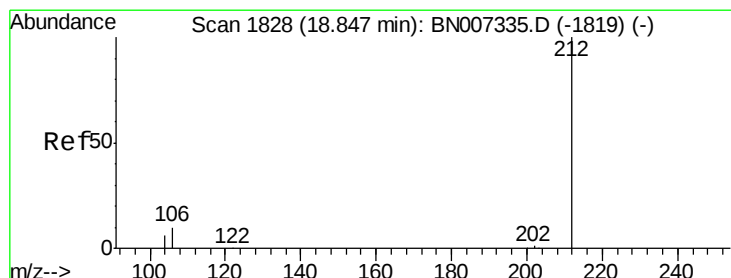
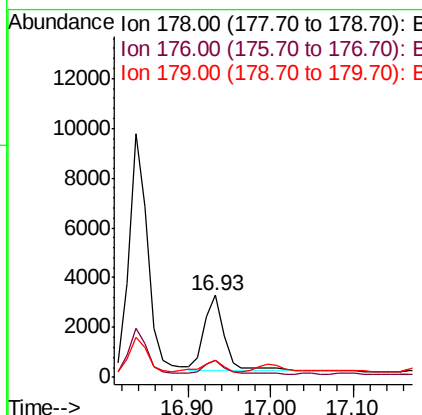
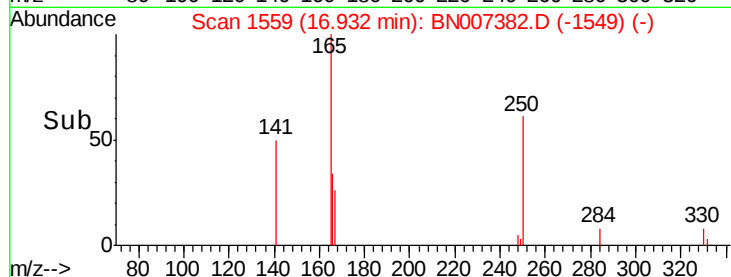
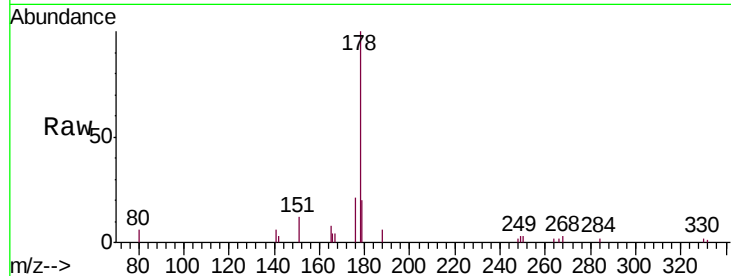
#24
 Anthracene
 Concen: 0.069 ng
 RT: 16.93 min Scan# 1559
 Delta R.T. 0.00 min
 Lab File: BN007382.D
 Acq: 25 Aug 2019 03:43

Instrument :
 BNA_N
 ClientSampleId :
 S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.1	14.9	22.3
179	16.4	12.4	18.6

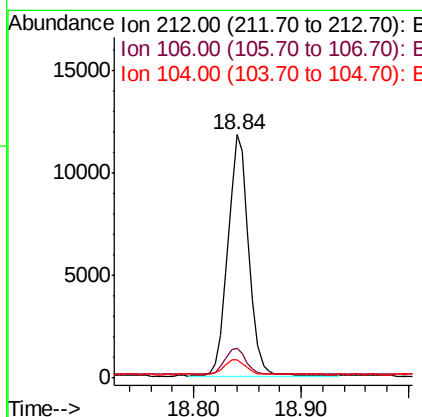
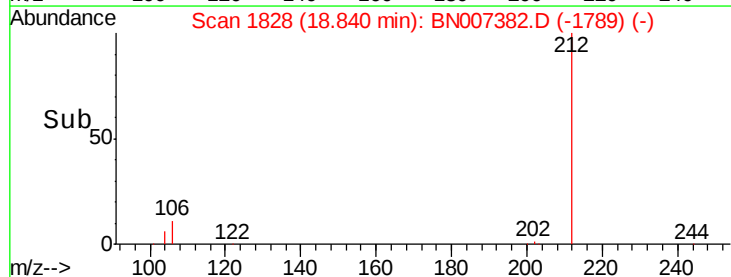
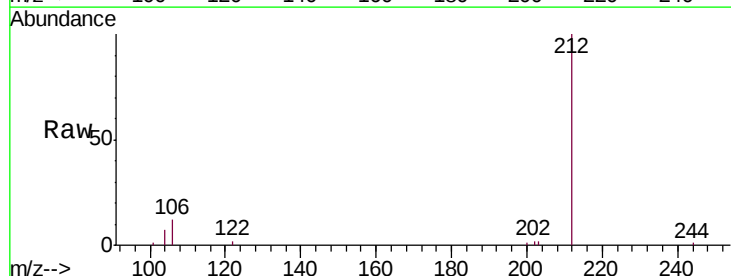
Manual Integrations
 APPROVED

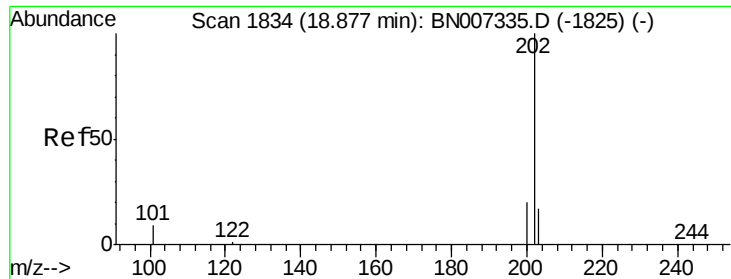
mohammad
 8/31/2019 2:40:28 PM



#25
 Fluoranthene-d10
 Concen: 0.193 ng
 RT: 18.84 min Scan# 1828
 Delta R.T. -0.01 min
 Lab File: BN007382.D
 Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.0	13.4
104	6.4	5.4	8.2





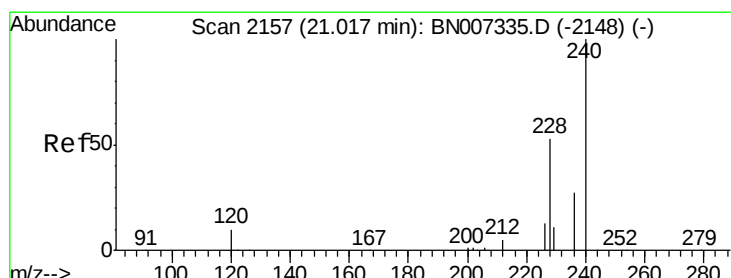
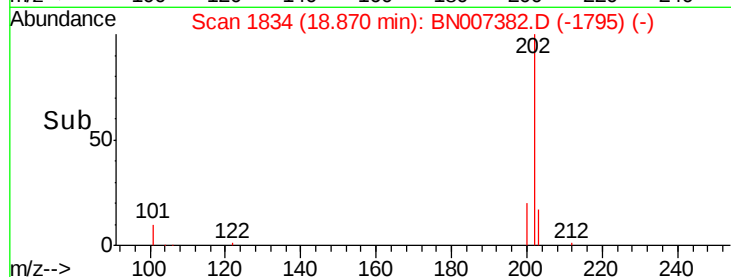
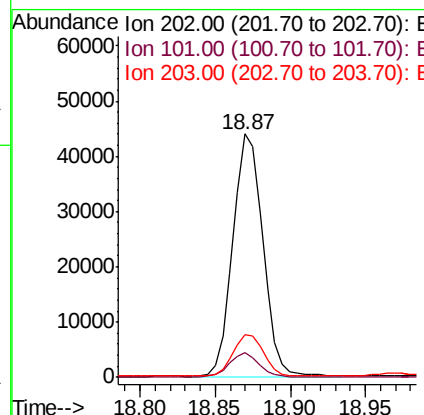
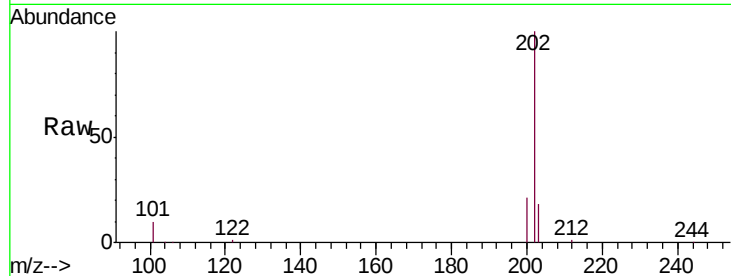
#26
 Fluoranthene
 Concen: 0.618 ng
 RT: 18.87 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BN007382.D
 Acq: 25 Aug 2019 03:43

Instrument :
 BNA_N
 ClientSampleId :
 S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.7	11.5
203	17.3	13.7	20.5

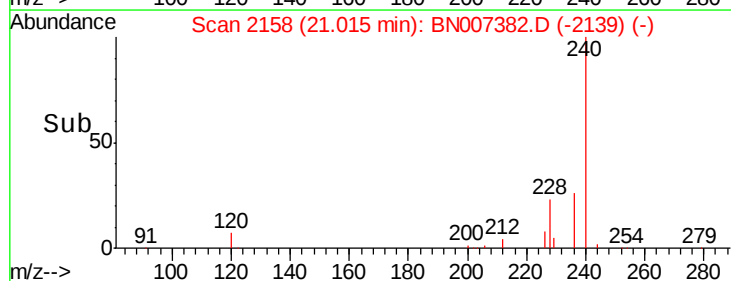
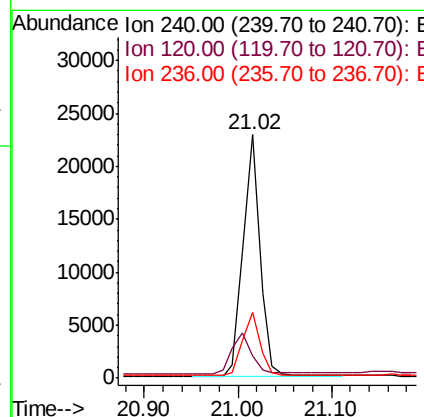
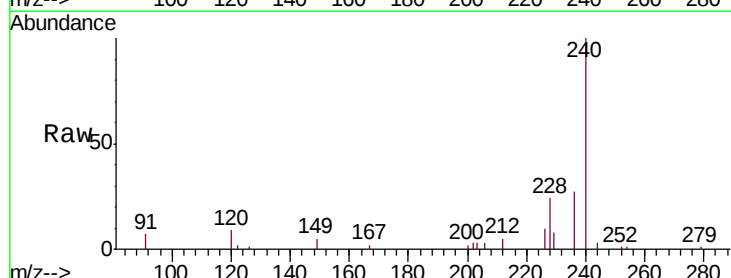
Manual Integrations
 APPROVED

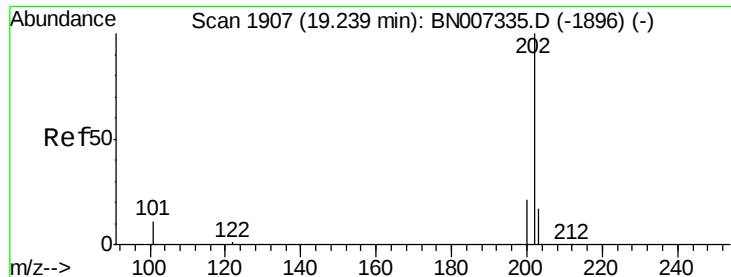
mohammad
 8/31/2019 2:40:28 PM



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.02 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: BN007382.D
 Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.2	9.6	14.4#
236	26.8	22.2	33.2





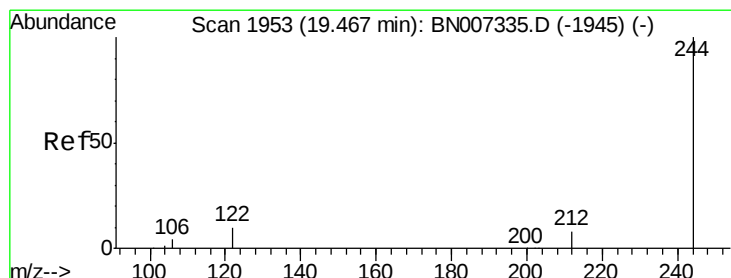
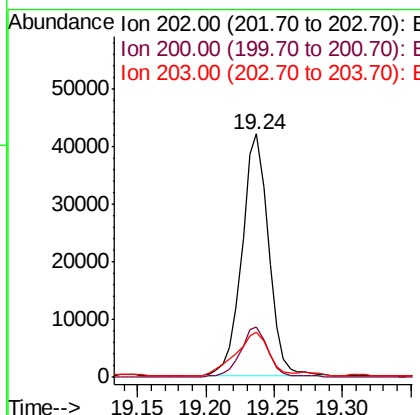
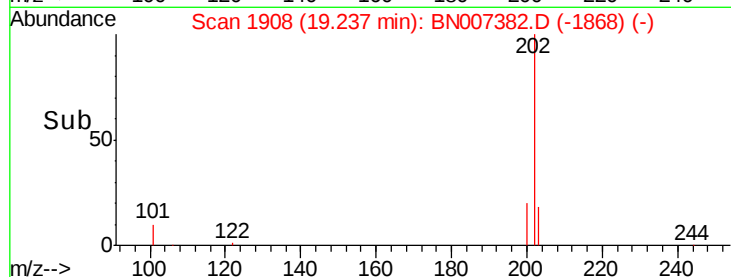
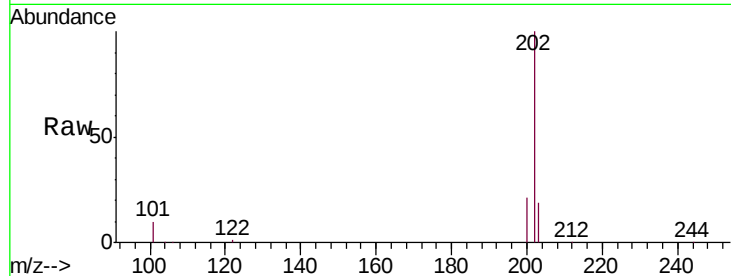
#28
Pvrene
Concen: 0.493 ng
RT: 19.24 min Scan# 1908
Delta R.T. -0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Resp	Lower	Upper
202	100	57275		
200	20.8		16.6	25.0
203	23.4		14.2	21.4

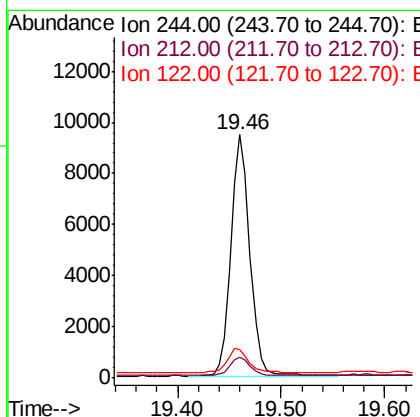
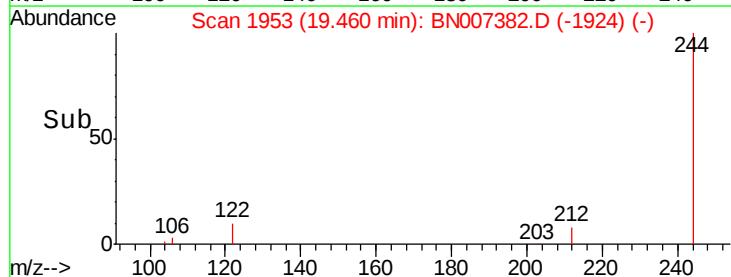
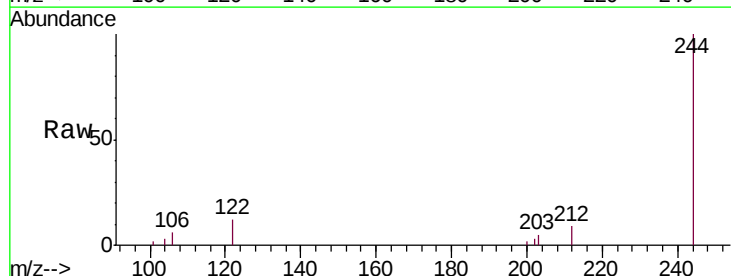
Manual Integrations
APPROVED

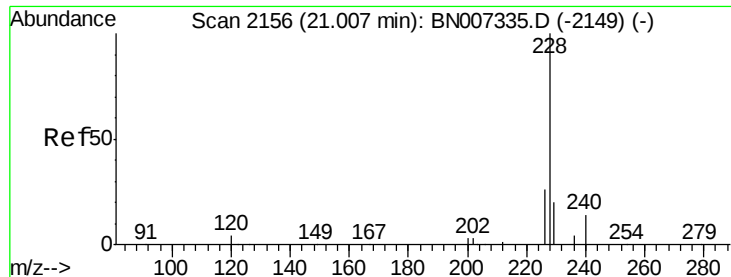
mohammad
8/31/2019 2:40:28 PM



#29
Terphenyl-d14
Concen: 0.156 ng
RT: 19.46 min Scan# 1953
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	11759		
212	8.8		7.0	10.6
122	12.0		9.6	14.4





#30

Benzo(a)anthracene

Concen: 0.364 ng

RT: 20.99 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

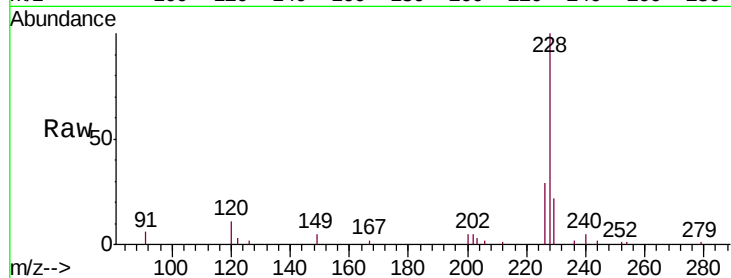
ClientSampleId :

S302-J-2.0-2.5-082019-FD

Tot Ion:	228	Resp:	41316
Ion	Ratio	Lower	Upper
228	100		
226	29.2	21.3	31.9
229	22.0	16.1	24.1

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:28 PM

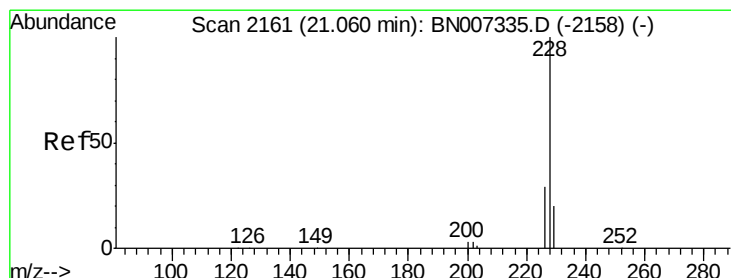
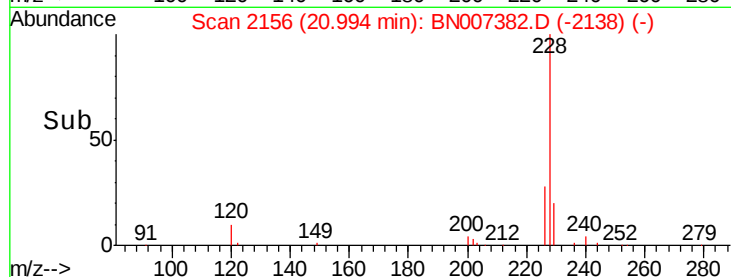
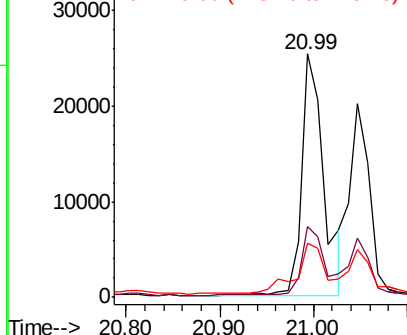


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.266 ng

RT: 21.05 min Scan# 2161

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

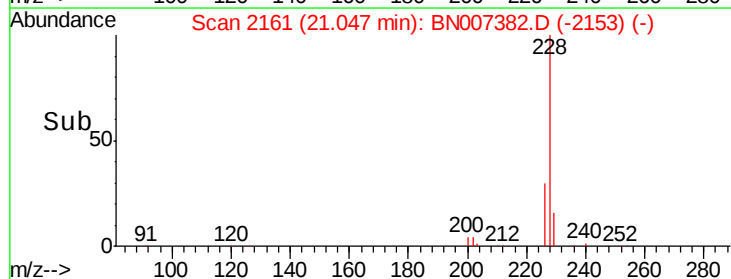
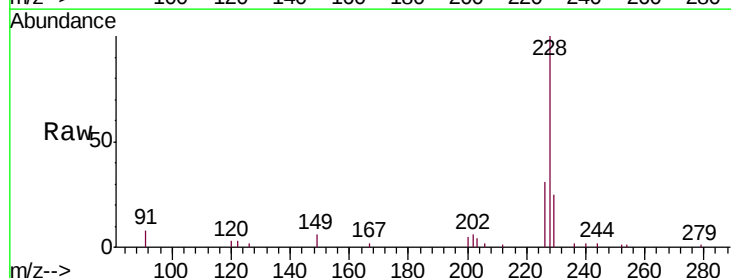
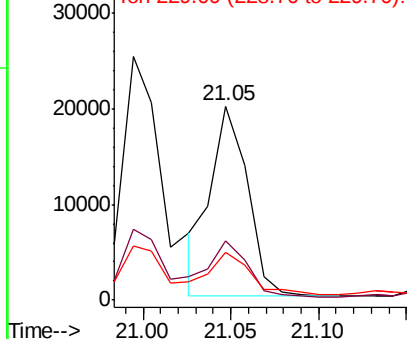
Tgt Ion:	228	Resp:	29101
Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.5	35.3
229	24.6	16.6	24.8

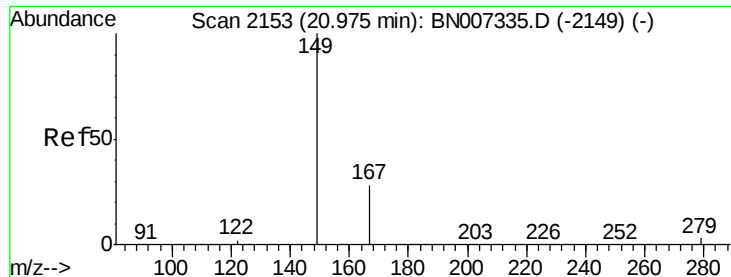
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.228 ng

RT: 20.96 min Scan# 2153

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

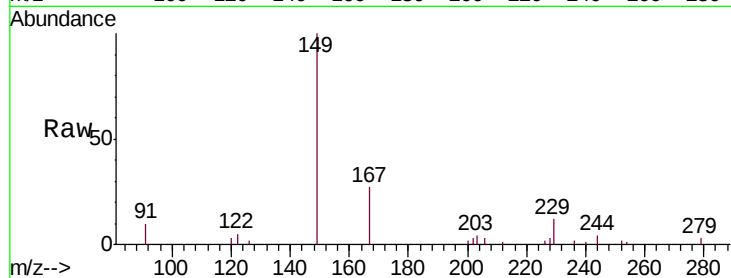
ClientSampleId :

S302-J-2.0-2.5-082019-FD

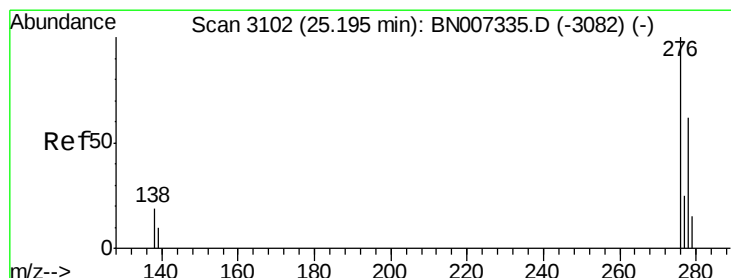
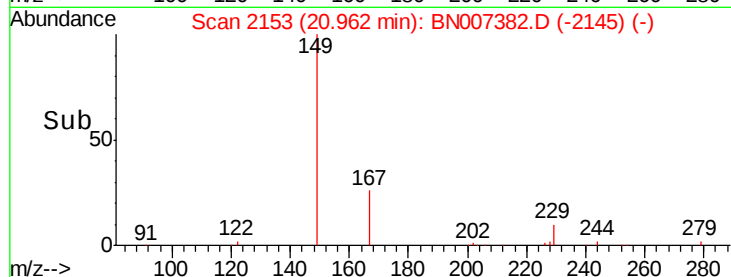
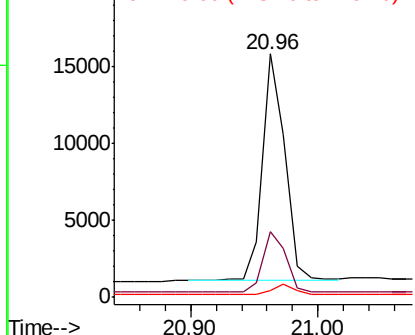
Tot Ion:	149	Resp:	18148
Ion Ratio	Lower	Upper	
149	100		
167	27.1	22.8	34.2
279	4.5	3.5	5.3

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:28 PM



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: 0.205 ng

RT: 25.18 min Scan# 3099

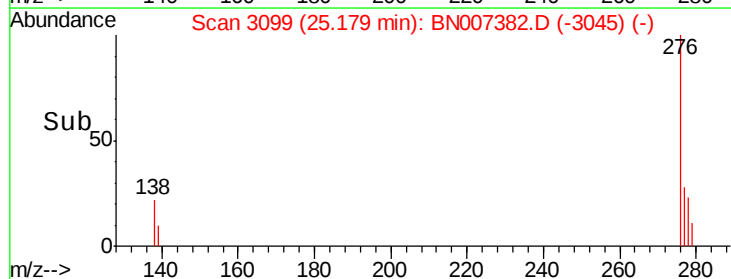
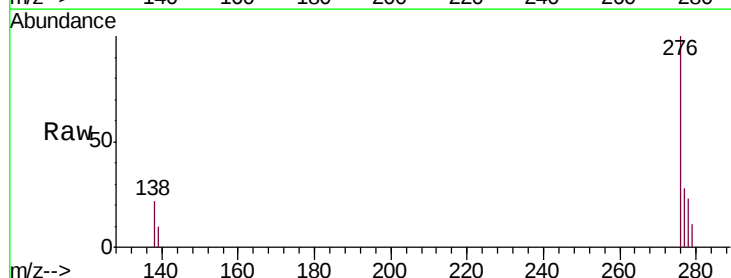
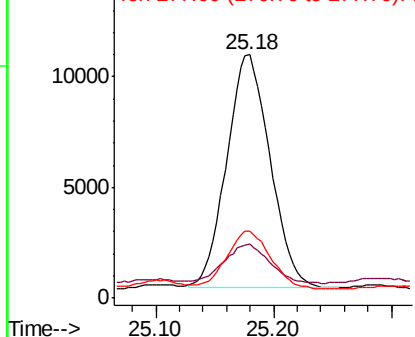
Delta R.T. -0.02 min

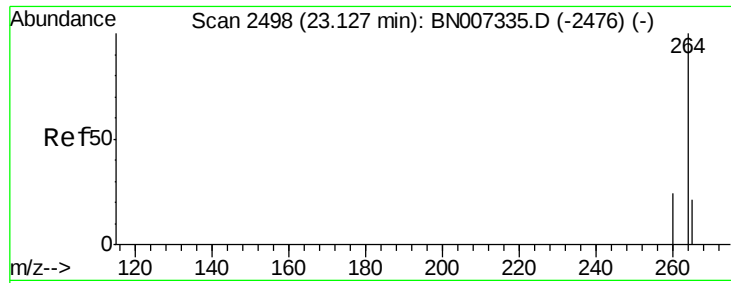
Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Tgt Ion:	276	Resp:	27025
Ion Ratio	Lower	Upper	
276	100		
138	17.2	15.1	22.7
277	25.1	19.7	29.5

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





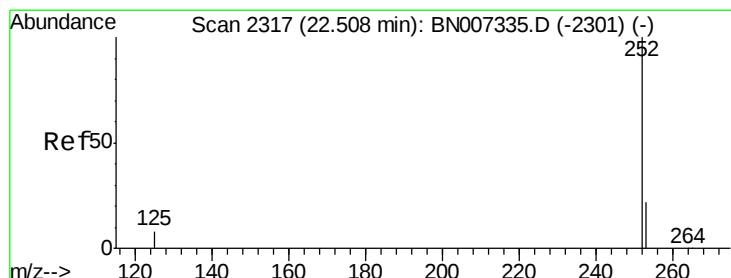
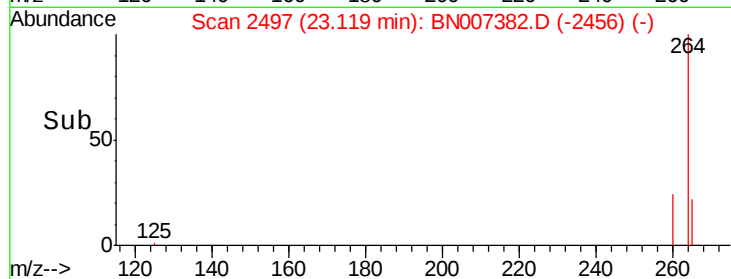
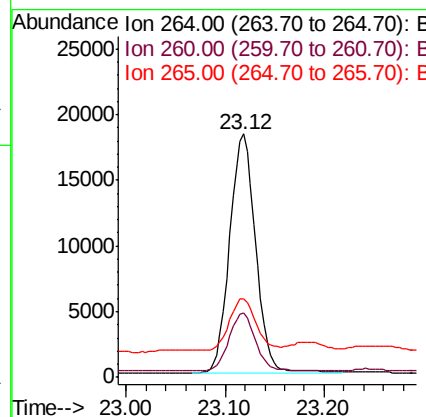
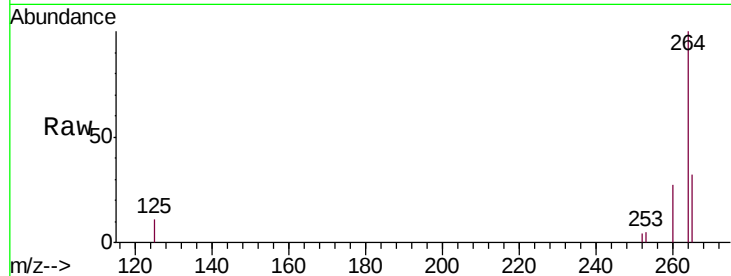
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.12 min Scan# 2497
 Delta R.T. -0.01 min
 Lab File: BN007382.D
 Acq: 25 Aug 2019 03:43

Instrument :
 BNA_N
 ClientSampleId :
 S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.5	19.7	29.5
265	32.1	29.9	44.9

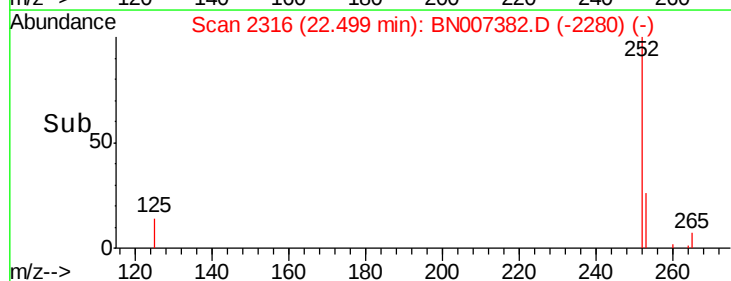
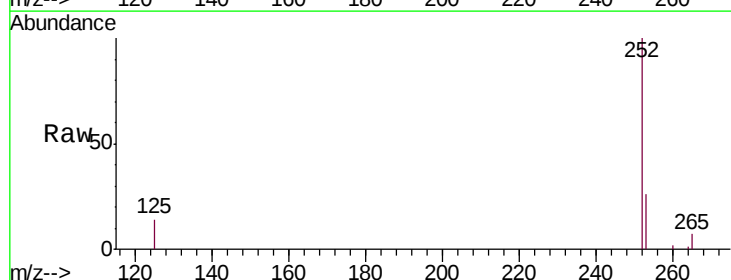
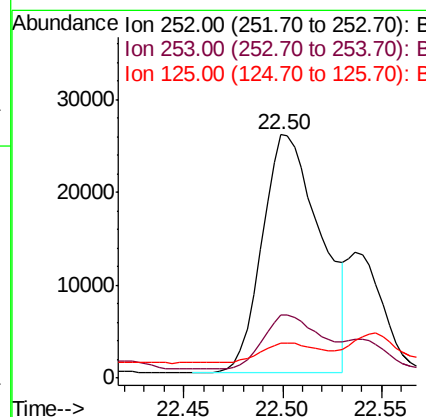
Manual Integrations
 APPROVED

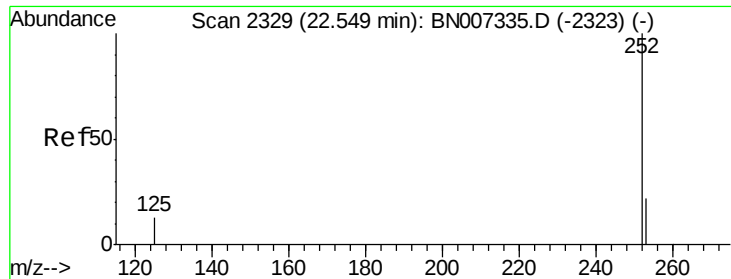
mohammad
 8/31/2019 2:40:28 PM



#35
 Benzo(b)fluoranthene
 Concen: 0.438 ng
 RT: 22.50 min Scan# 2316
 Delta R.T. -0.01 min
 Lab File: BN007382.D
 Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.2	28.8
125	14.2	10.6	16.0





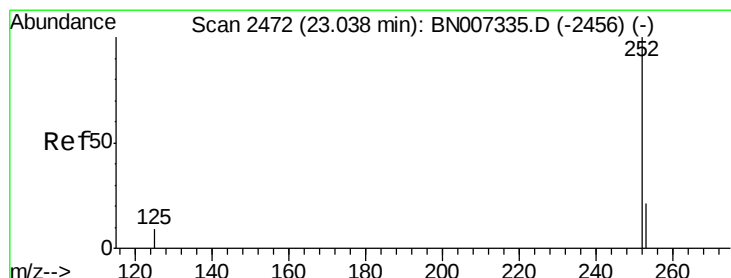
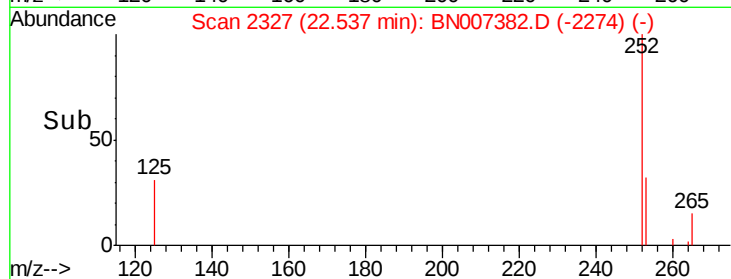
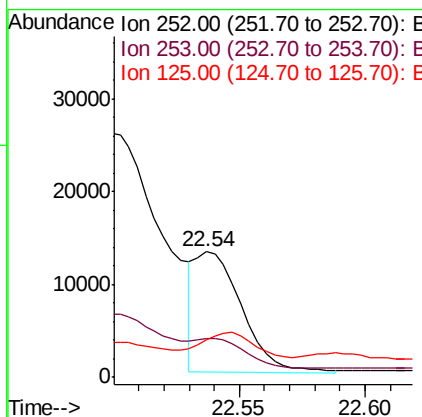
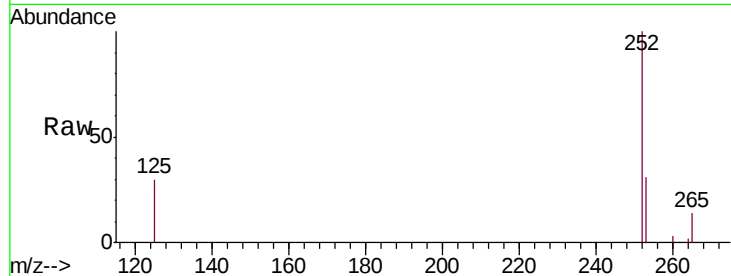
#36
Benzo(k)fluoranthene
Concen: 0.140 ng/mL
RT: 22.54 min Scan# 2327
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Lower	Upper
252	100		
253	31.2	19.4	29.2
125	29.5	13.1	19.7

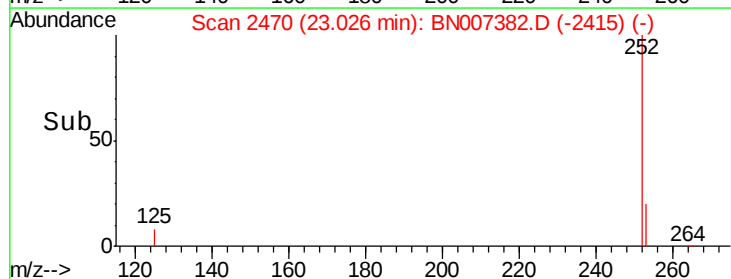
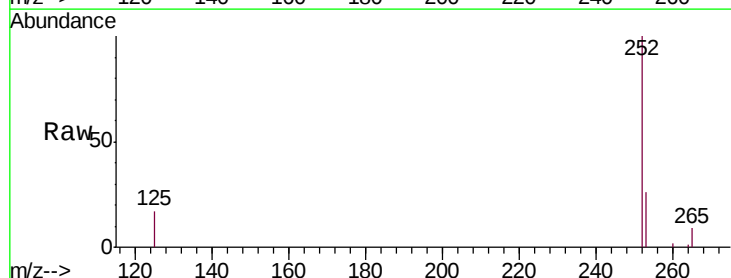
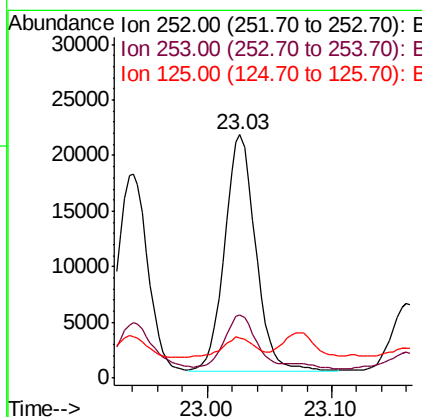
Manual Integrations
APPROVED

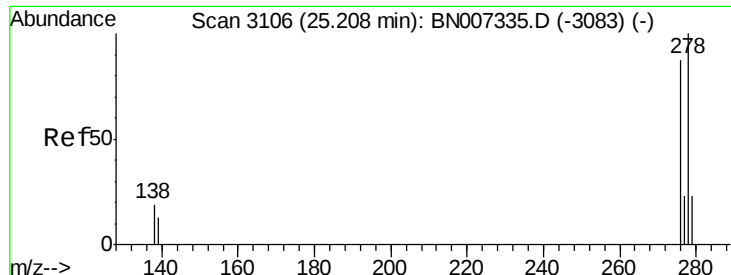
mohammad
8/31/2019 2:40:28 PM



#37
Benzo(a)pyrene
Concen: 0.320 ng/mL
RT: 23.03 min Scan# 2470
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.0	19.5	29.3
125	16.7	12.1	18.1





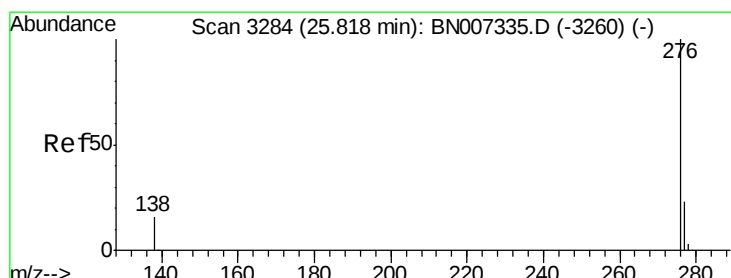
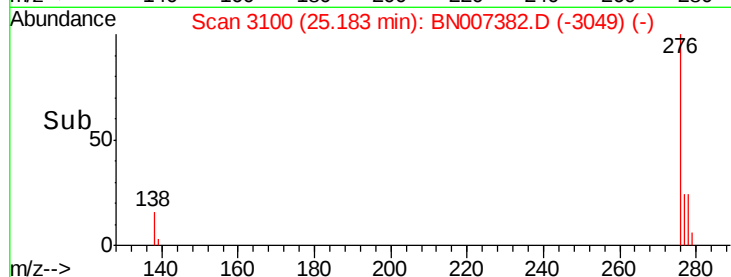
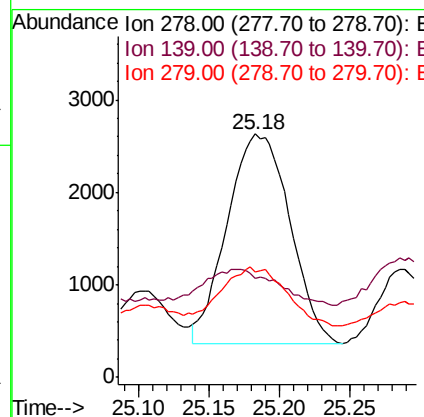
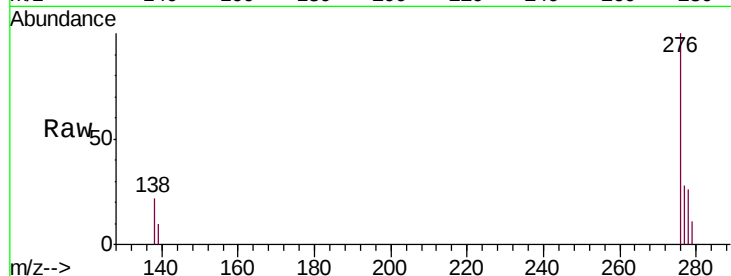
#38
Dibenzo(a,h)anthracene
Concen: 0.062 ng
RT: 25.18 min Scan# 3100
Delta R.T. -0.03 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

Tot Ion	Ratio	Lower	Upper
278	100		
139	40.8	13.7	20.5#
279	43.4	20.2	30.4#

Manual Integrations
APPROVED

mohammad
8/31/2019 2:40:28 PM



#39
Benzo(g,h,i)perylene
Concen: 0.262 ng
RT: 25.80 min Scan# 3281
Delta R.T. -0.02 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.6	19.6	29.4
138	21.4	16.3	24.5

