

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
 Data File : BN008009.D
 Acq On : 04 Oct 2019 18:35
 Operator : JU
 Sample : K5078-02
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW066-092519

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:45:23 AM

Quant Time: Oct 05 03:39:48 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	49318	0.40	ng	-0.02
7) Naphthalene-d8	10.44	136	179347	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	83303	0.40	ng	-0.02
19) Phenanthrene-d10	17.05	188	110117	0.40	ng	-0.02
27) Chrysene-d12	21.25	240	50547	0.40	ng	-0.02
34) Perylene-d12	23.45	264	59042	0.40	ng	-0.04

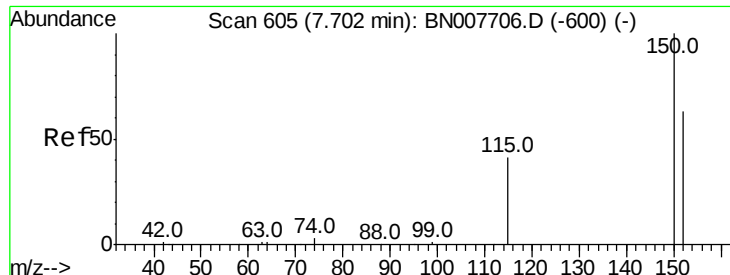
System Monitoring Compounds

4) 2-Fluorophenol	5.33	112	30490	0.18	ng	0.02
5) Phenol-d6	6.87	99	39478	0.18	ng	0.00
8) Nitrobenzene-d5	8.82	82	36684	0.23	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	58568	0.19	ng	-0.03
14) 2,4,6-Tribromophenol	15.80	330	5930	0.13	ng	-0.02
15) 2-Fluorobiphenyl	12.92	172	74525	0.22	ng	-0.02
25) Fluoranthene-d10	19.08	212	44350	0.12	ng	-0.02
29) Terphenyl-d14	19.69	244	33102	0.27	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.49	128	15842	0.031	ng	97
12) 2-Methylnaphthalene	12.11	142	9850	0.029	ng	95
16) Acenaphthylene	14.01	152	73594	0.167	ng	99
17) Acenaphthene	14.36	154	33944	0.119	ng	97
18) Fluorene	15.35	166	45501	0.125	ng	95
23) Phenanthrene	17.09	178	801582	2.337	ng	100
24) Anthracene	17.18	178	114729	0.370	ng	# 96
26) Fluoranthene	19.11	202	1031758	2.419	ng	99
28) Pyrene	19.48	202	881793	5.115	ng	# 96
30) Benzo(a)anthracene	21.23	228	304003	1.633	ng	97
31) Chrysene	21.28	228	347076	1.913	ng	98
32) Bis(2-ethylhexyl)phthalate	21.17	149	78383	0.819	ng	100
33) Indeno(1,2,3-cd)pyrene	25.66	276	331137	1.458	ng	96
35) Benzo(b)fluoranthene	22.80	252	437464	2.134	ng	99
36) Benzo(k)fluoranthene	22.84	252	139548m	0.688	ng	
37) Benzo(a)pyrene	23.36	252	303883	1.578	ng	99
38) Dibenzo(a,h)anthracene	25.66	278	78987	0.401	ng	93
39) Benzo(a,h,i)perylene	26.33	276	360445	1.848	ng	99

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



#1

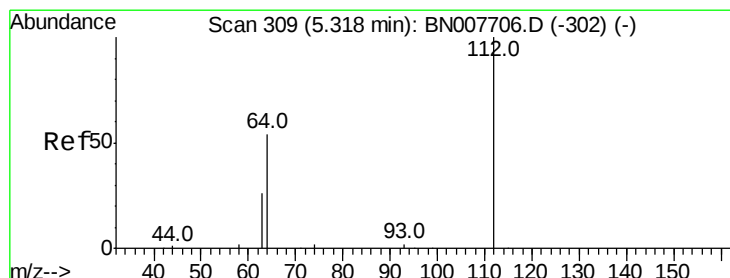
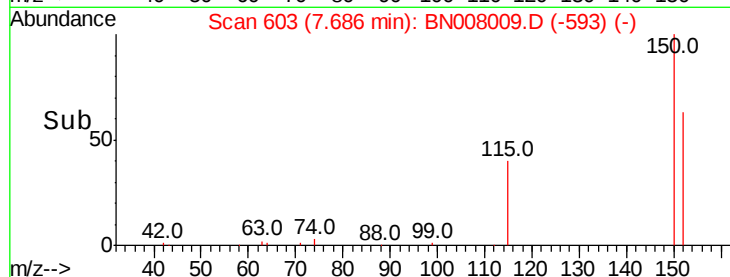
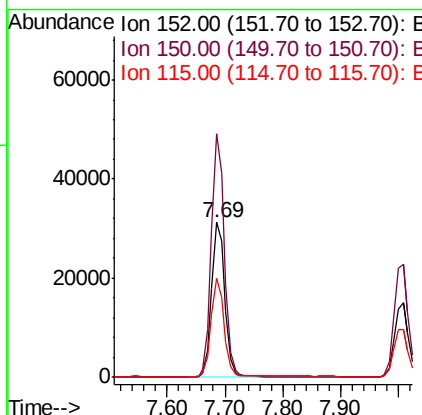
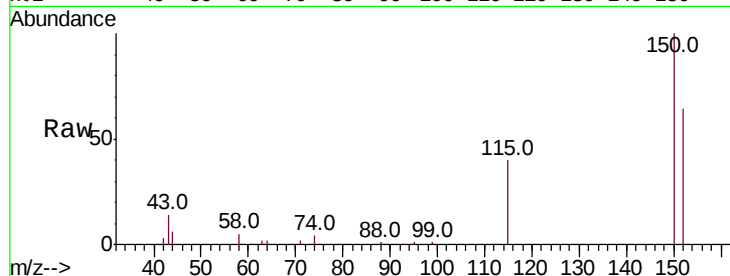
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 603
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW066-092519

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	125.6	188.4
115	63.7	53.3	79.9

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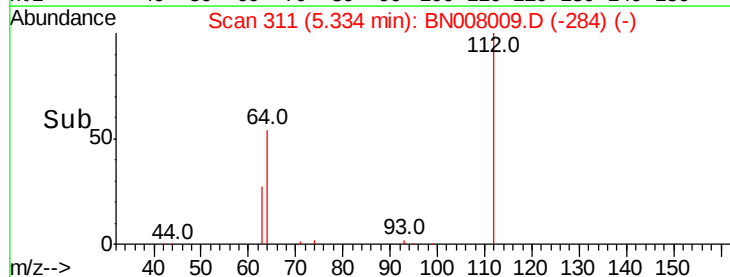
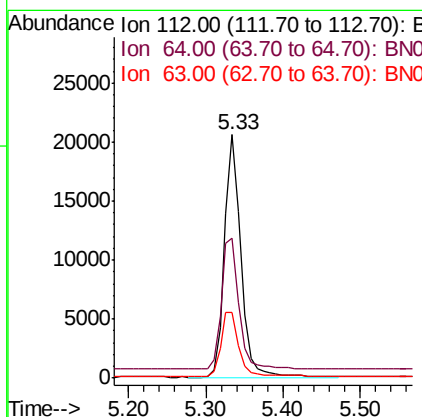
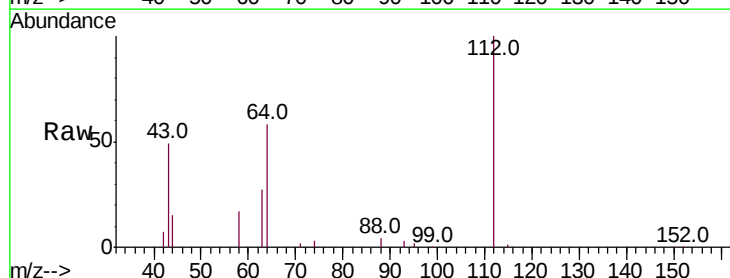
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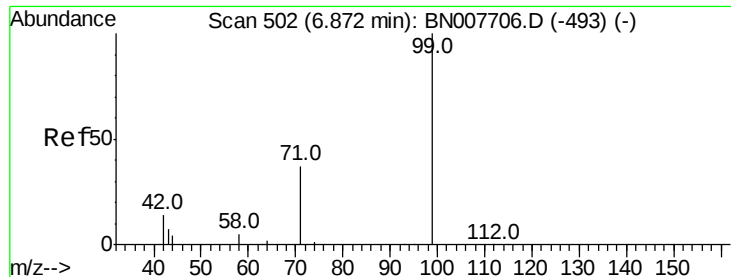


#4

2-Fluorophenol
Concen: 0.180 ng
RT: 5.33 min Scan# 311
Delta R.T. 0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.2	46.6	70.0
63	28.6	23.1	34.7





#5

Phenol-d6

Concen: 0.183 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Instrument :

BNA_N

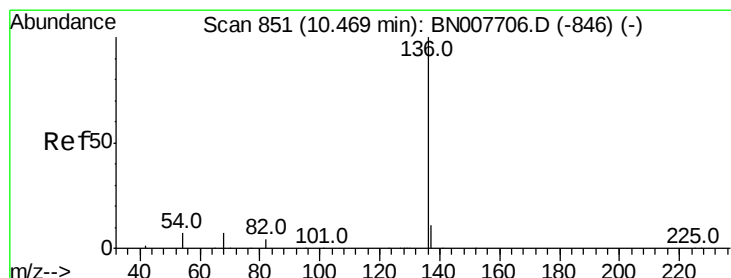
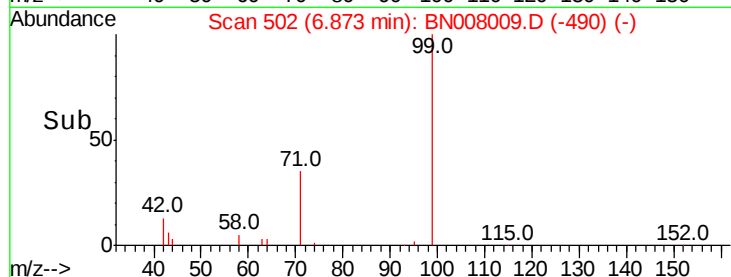
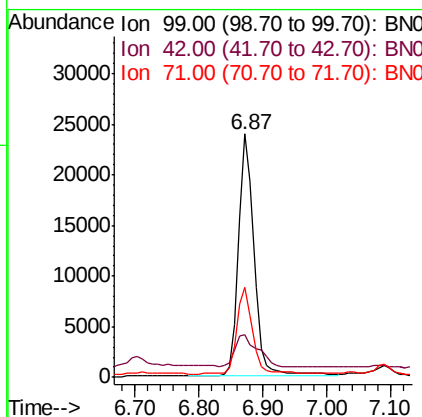
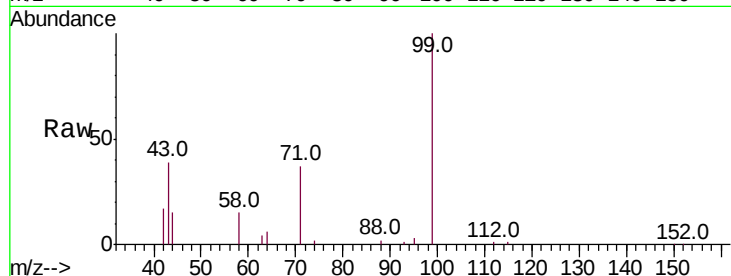
ClientSampleId :

EXT-024-SW066-092519

Tot Ion:	99	Resp:	39478
Ion	Ratio	Lower	Upper
99	100		
42	18.7	12.8	19.2
71	36.9	27.6	41.4

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#7

Naphthalene-d8

Concen: 0.400 ng

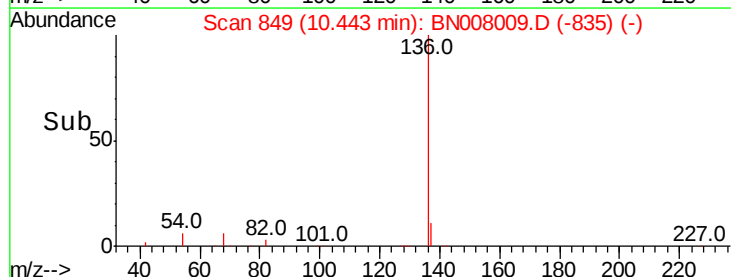
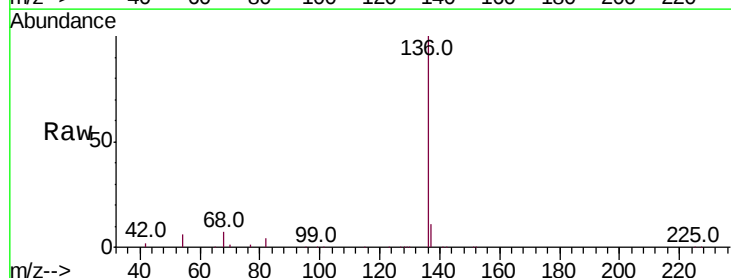
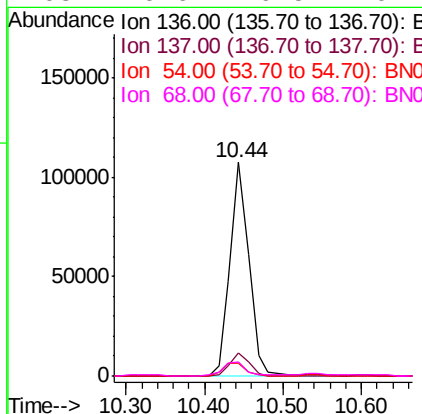
RT: 10.44 min Scan# 849

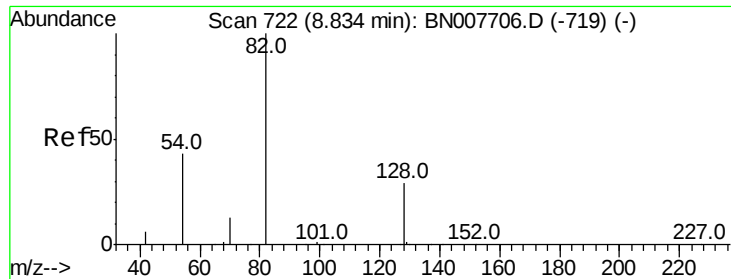
Delta R.T. -0.03 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Tgt Ion:	136	Resp:	179347
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.2	13.8
54	5.9	5.8	8.8
68	6.6	6.5	9.7





#8

Nitrobenzene-d5

Concen: 0.234 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Instrument :

BNA_N

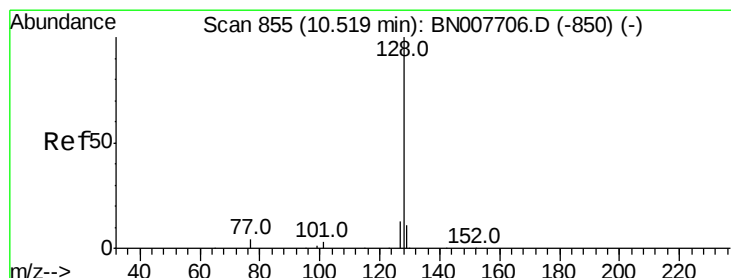
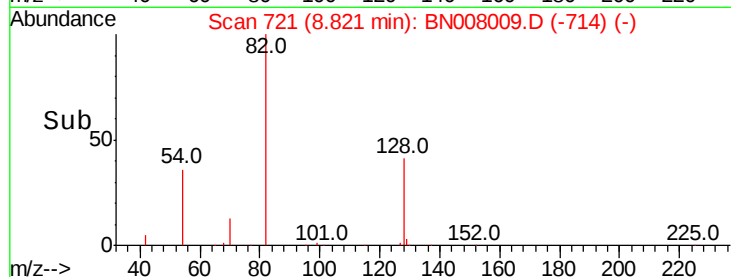
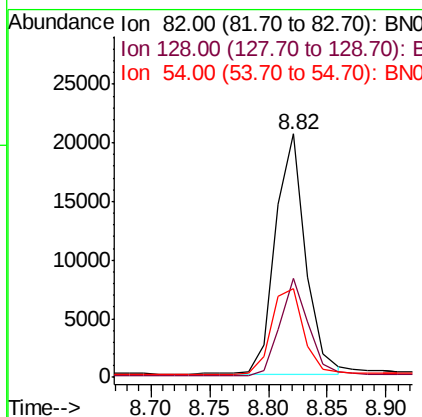
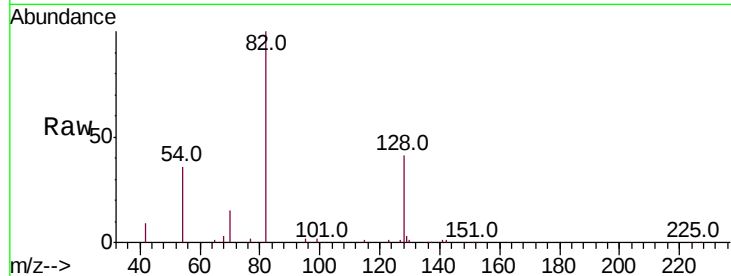
ClientSampleId :

EXT-024-SW066-092519

Tot Ion:	82	Resp:	36684
Ion Ratio	Lower	Upper	
82	100		
128	40.6	24.5	36.7#
54	36.3	35.2	52.8

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#9

Naphthalene

Concen: 0.031 ng

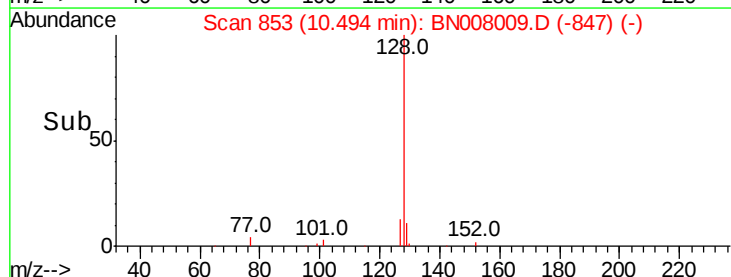
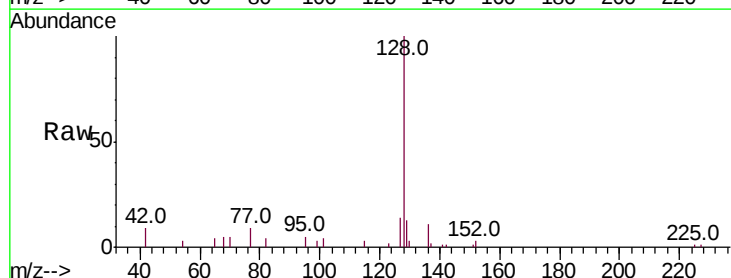
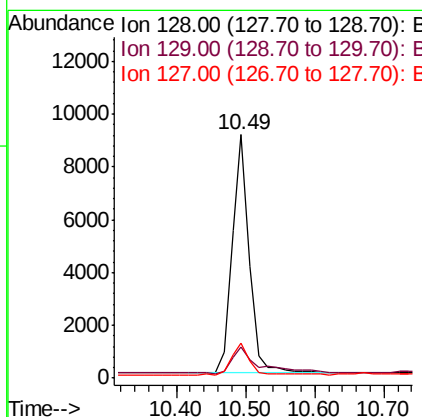
RT: 10.49 min Scan# 853

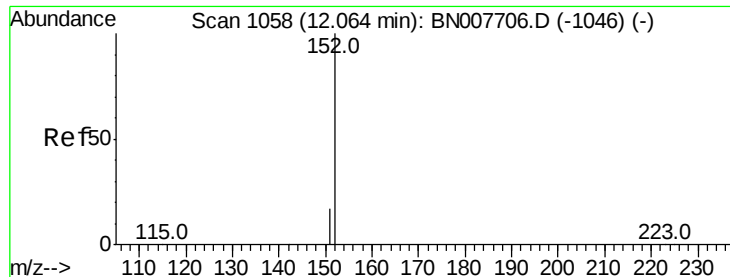
Delta R.T. -0.03 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Tgt Ion:	128	Resp:	15842
Ion Ratio	Lower	Upper	
128	100		
129	12.8	9.1	13.7
127	14.1	10.6	15.8





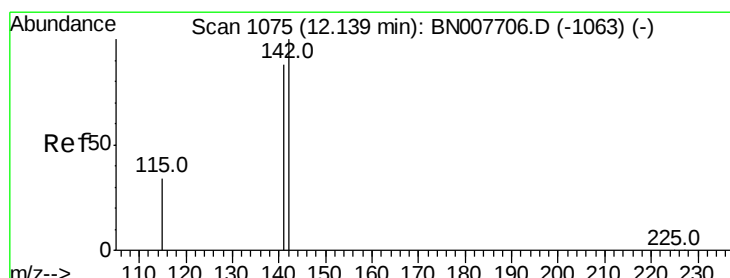
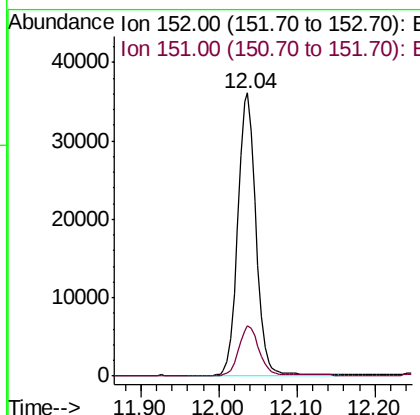
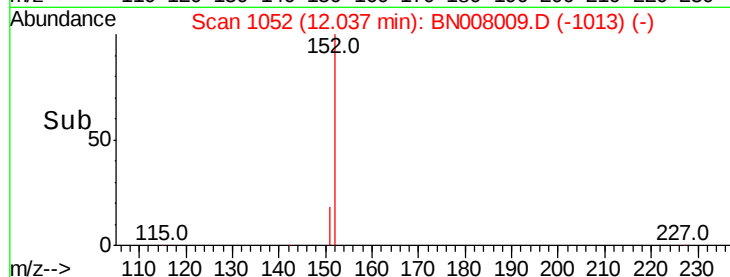
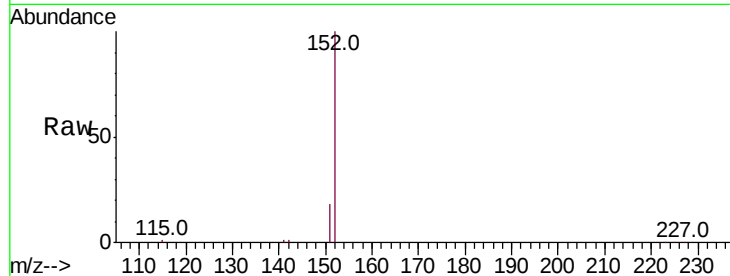
#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 12.04 min Scan# 1052
Delta R.T. -0.03 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW066-092519

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.4	23.2

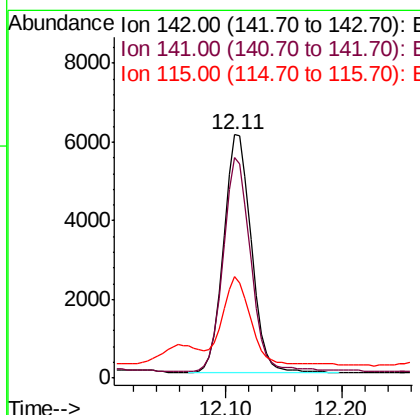
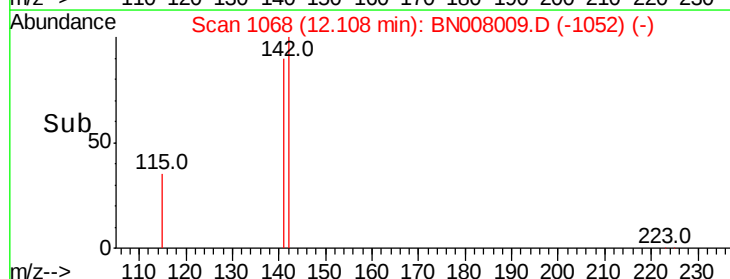
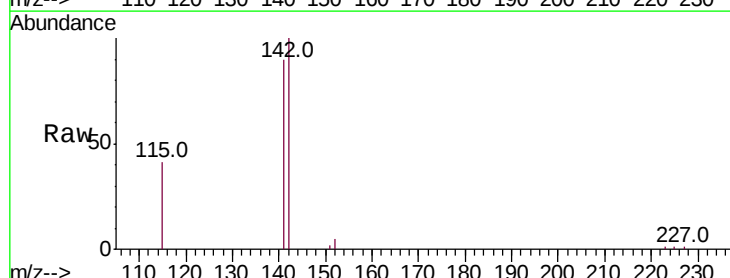
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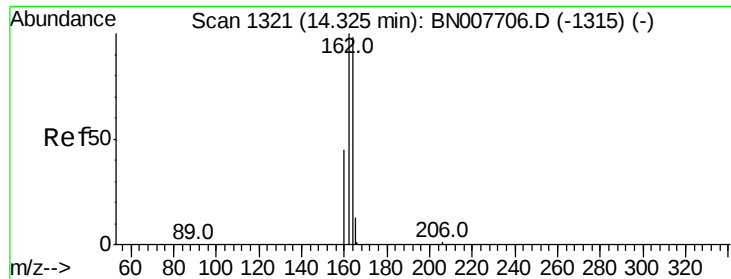
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#12
2-Methylnaphthalene
Concen: 0.029 ng
RT: 12.11 min Scan# 1068
Delta R.T. -0.03 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

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





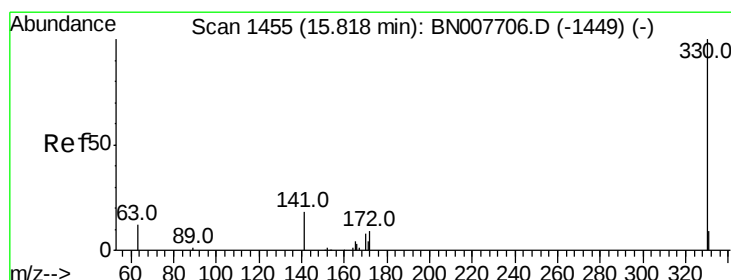
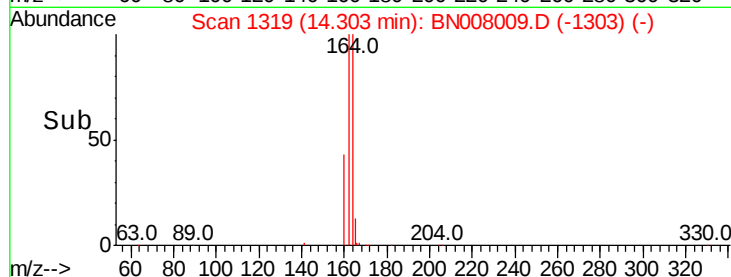
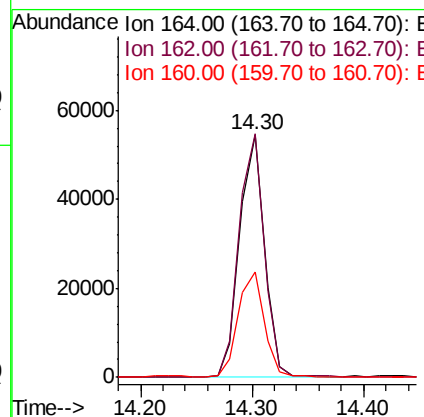
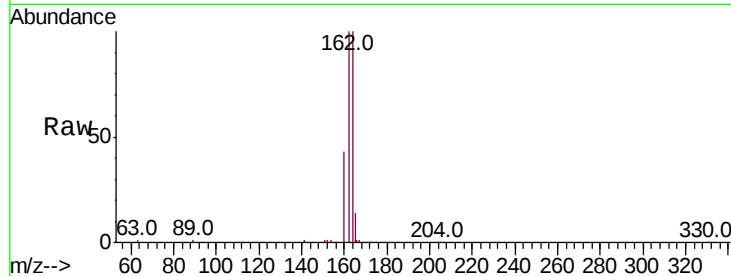
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.30 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW066-092519

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.7	122.5
160	43.4	37.0	55.4

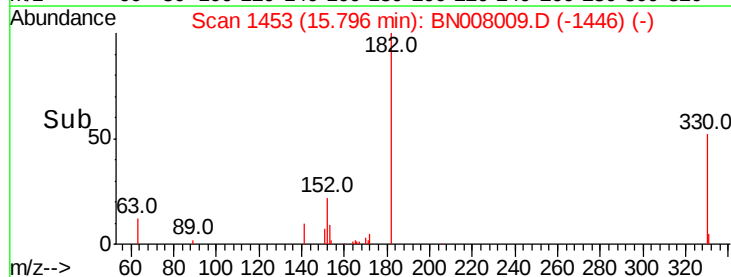
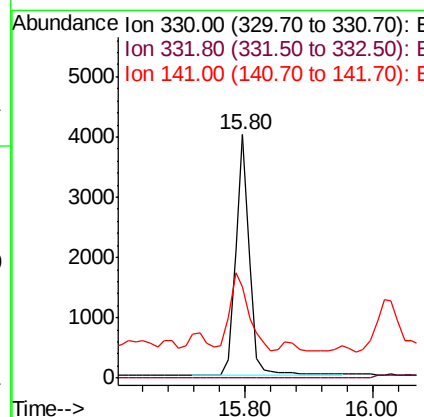
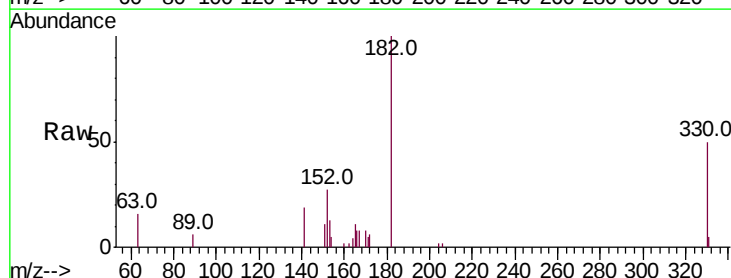
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#14
2,4,6-Tribromophenol
Concen: 0.131 ng
RT: 15.80 min Scan# 1453
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	44.6	28.7	43.1#





#15

2-Fluorobiphenyl

Concen: 0.217 ng

RT: 12.92 min Scan# 1195

Delta R.T. -0.02 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Instrument :

BNA_N

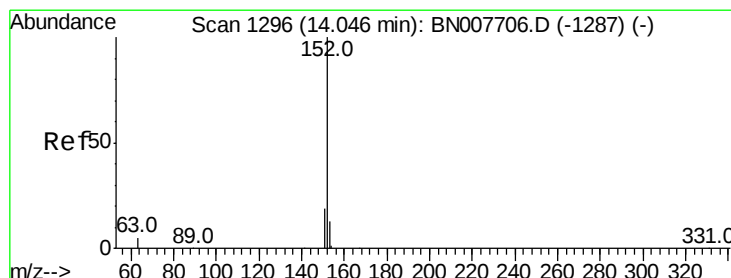
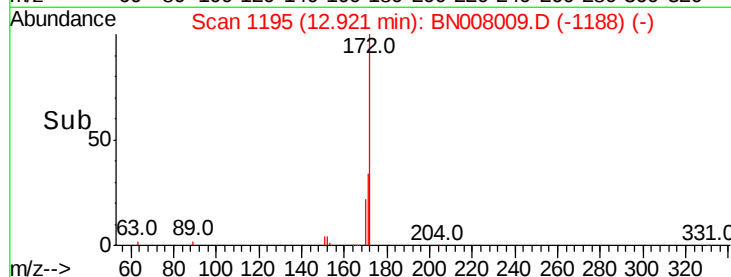
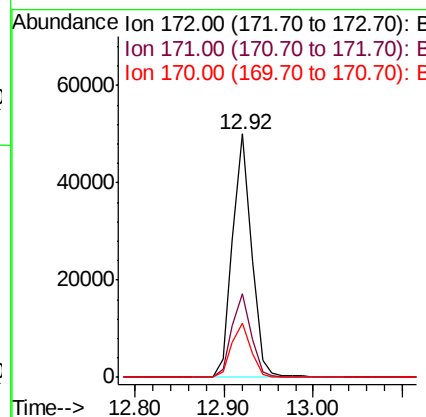
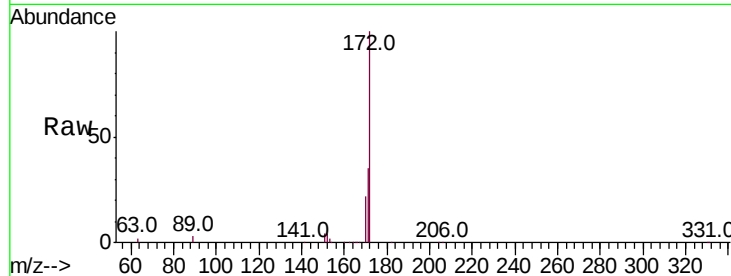
ClientSampleId :

EXT-024-SW066-092519

Tot Ion:	172	Resp:	74525
Ion Ratio	Lower	Upper	
172	100		
171	34.6	28.8	43.2
170	22.4	19.5	29.3

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#16

Acenaphthylene

Concen: 0.167 ng

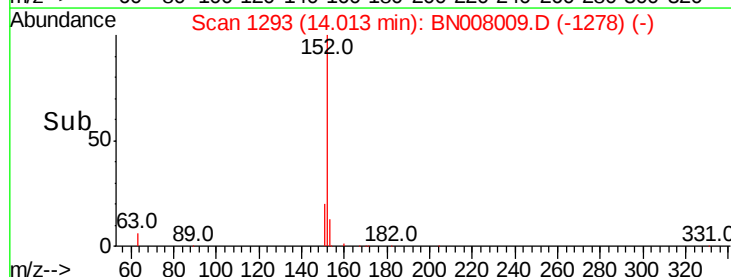
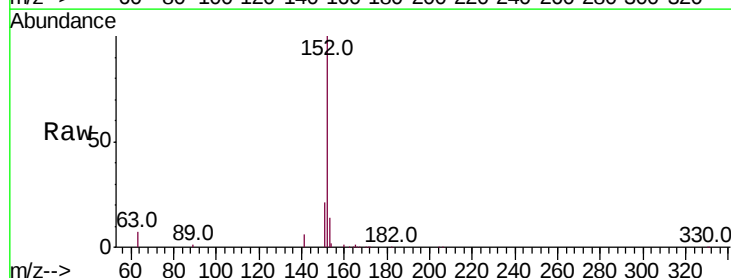
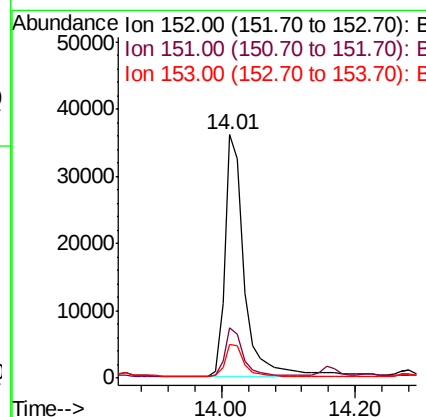
RT: 14.01 min Scan# 1293

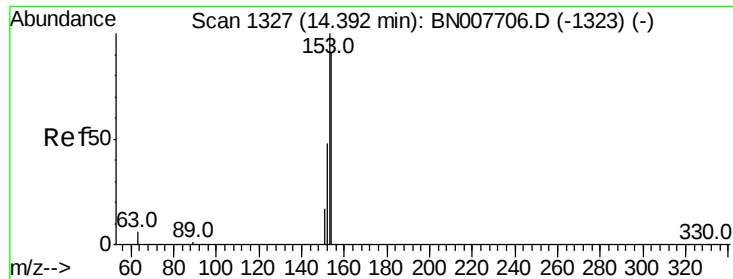
Delta R.T. -0.03 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Tgt Ion:	152	Resp:	73594
Ion Ratio	Lower	Upper	
152	100		
151	19.8	15.5	23.3
153	13.5	10.4	15.6





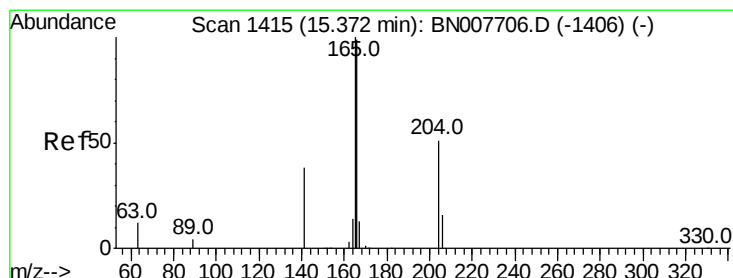
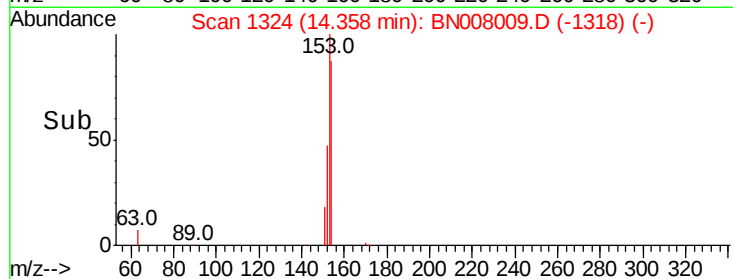
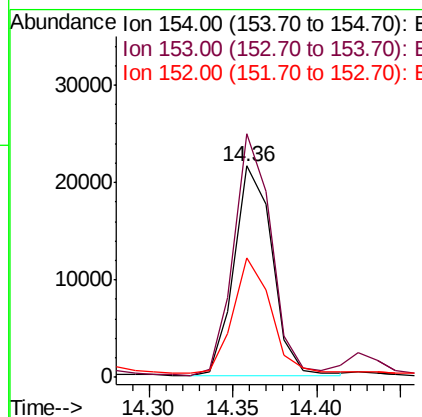
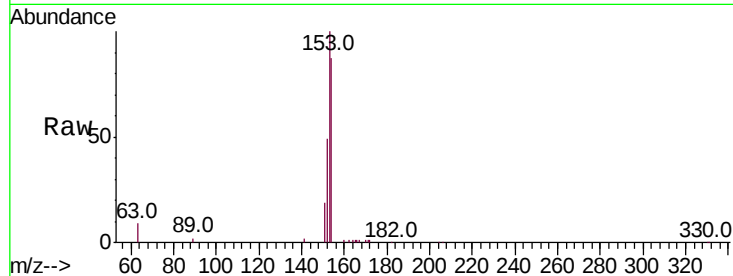
#17
Acenaphthene
Concen: 0.119 ng
RT: 14.36 min Scan# 1324
Delta R.T. -0.03 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW066-092519

Tot Ion	Ratio	Lower	Upper
154	100		
153	112.6	87.0	130.4
152	54.1	42.7	64.1

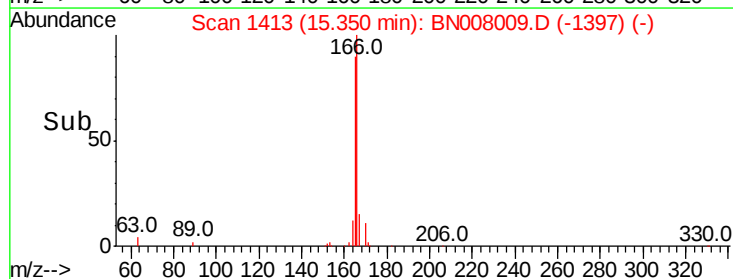
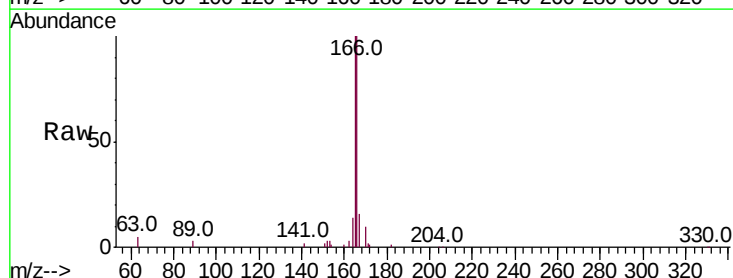
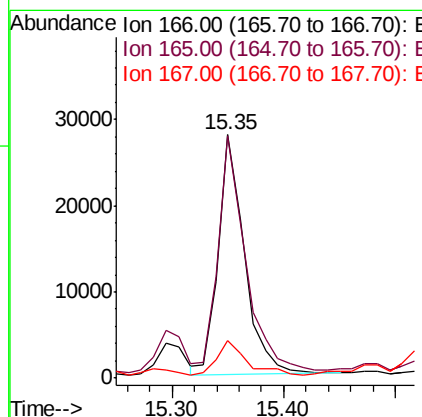
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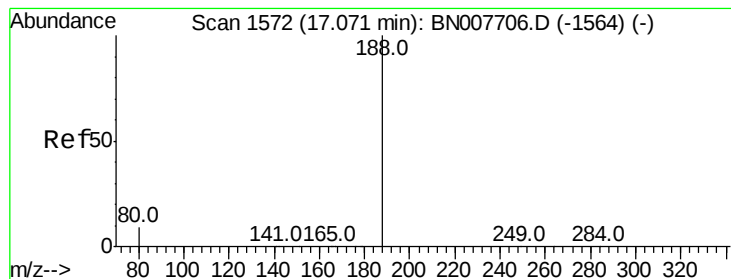
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#18
Fluorene
Concen: 0.125 ng
RT: 15.35 min Scan# 1413
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.8	78.0	117.0
167	16.0	10.9	16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1570

Delta R.T. -0.02 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Instrument :

BNA_N

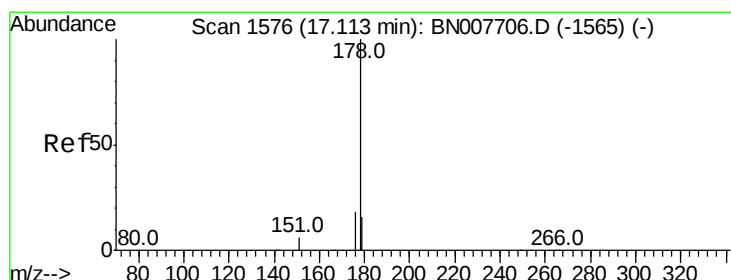
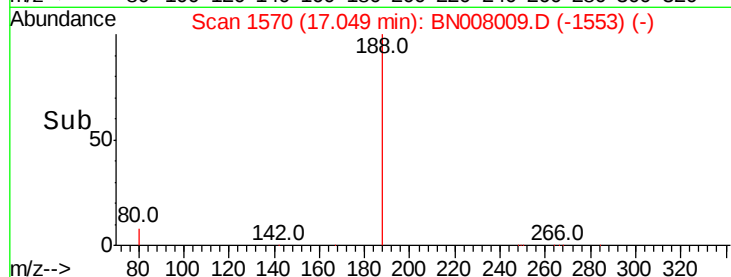
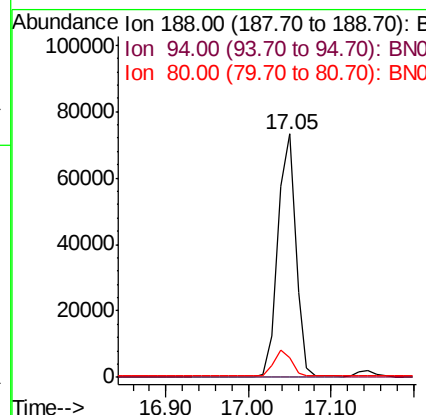
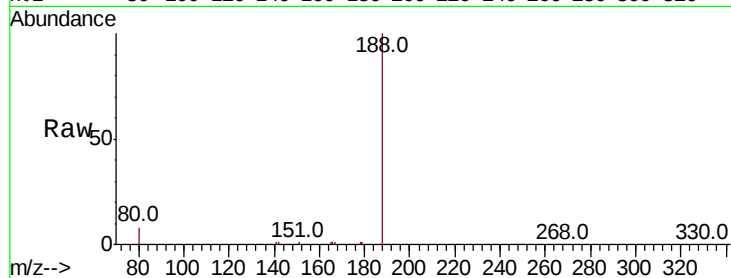
ClientSampleId :

EXT-024-SW066-092519

Tot Ion:	188	Resp:	110117
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.1	7.4	11.2

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#23

Phenanthrene

Concen: 2.337 ng

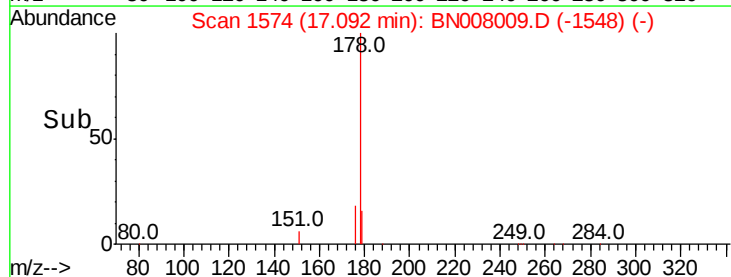
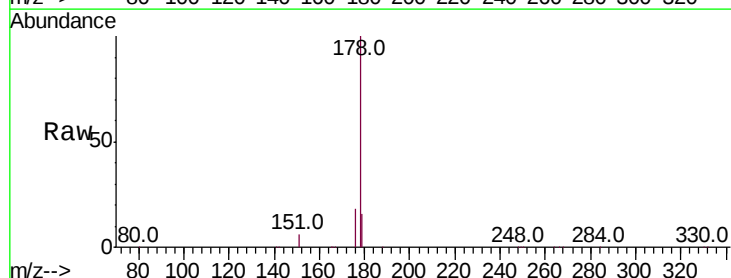
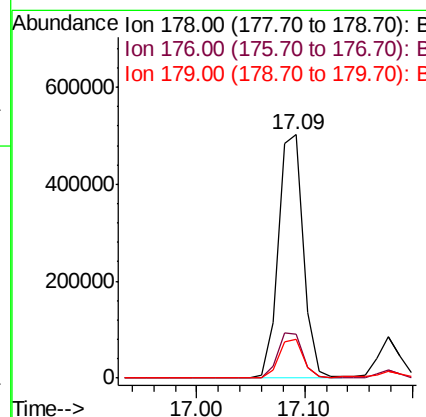
RT: 17.09 min Scan# 1574

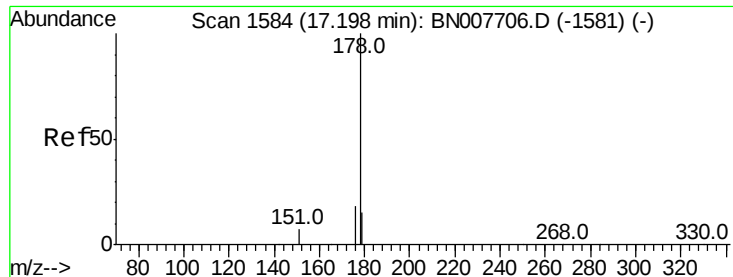
Delta R.T. -0.02 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Tgt Ion:	178	Resp:	801582
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.9	22.3
179	15.6	12.5	18.7





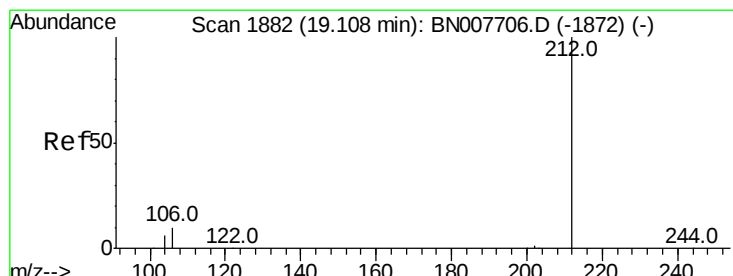
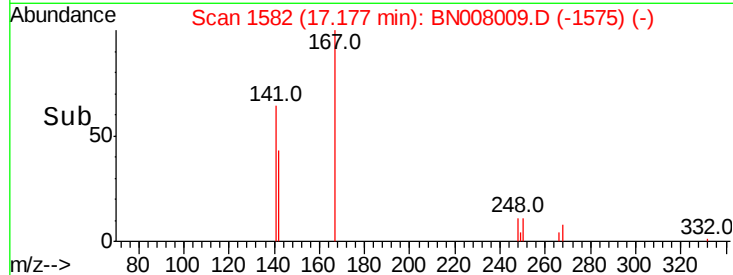
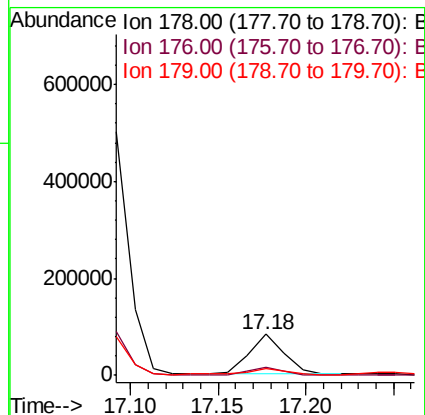
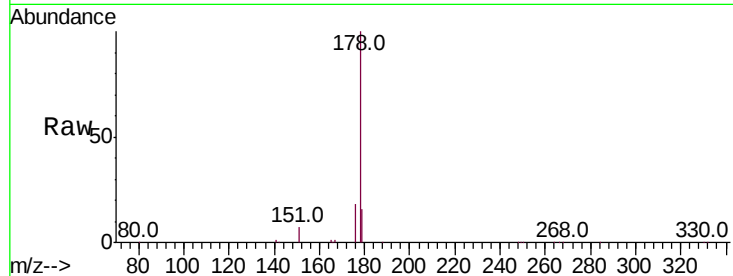
#24
 Anthracene
 Concen: 0.370 ng
 RT: 17.18 min Scan# 1582
 Delta R.T. -0.02 min
 Lab File: BN008009.D
 Acq: 04 Oct 2019 18:35

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW066-092519

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	18.8	12.2	18.4

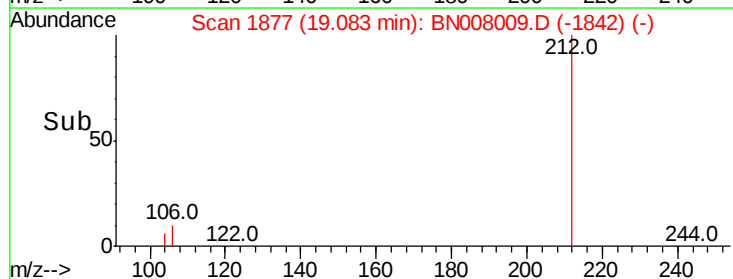
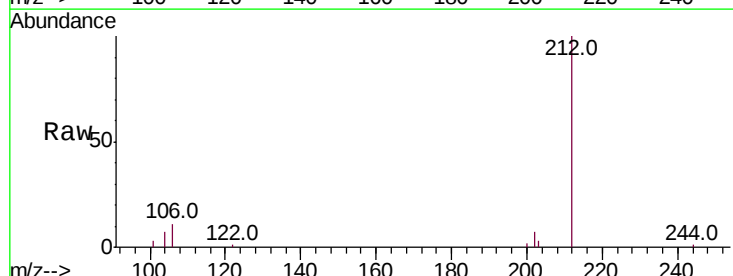
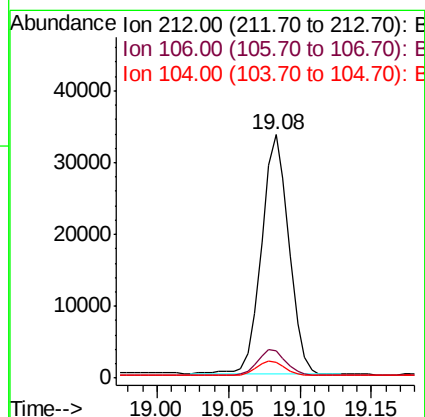
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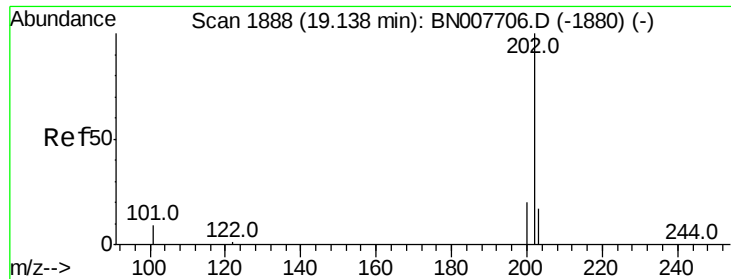
mohammad
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#25
 Fluoranthene-d10
 Concen: 0.119 ng
 RT: 19.08 min Scan# 1877
 Delta R.T. -0.02 min
 Lab File: BN008009.D
 Acq: 04 Oct 2019 18:35

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.4	14.0
104	6.8	5.3	7.9





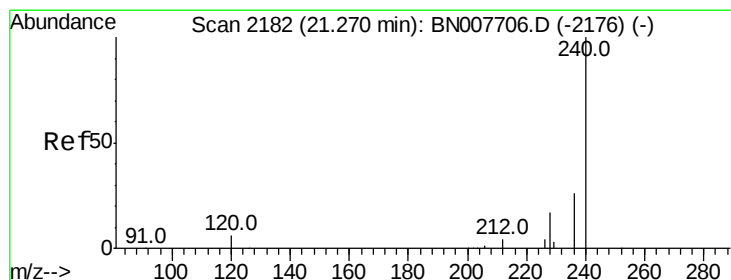
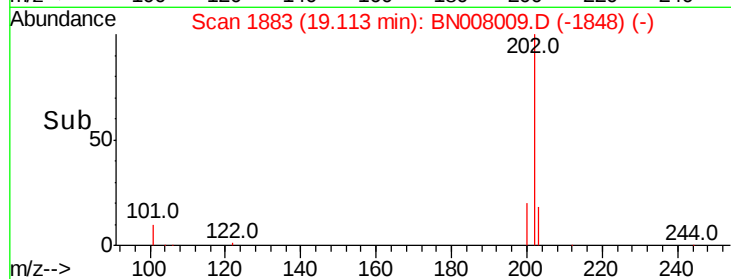
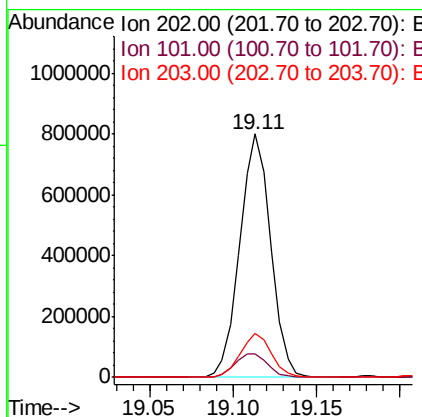
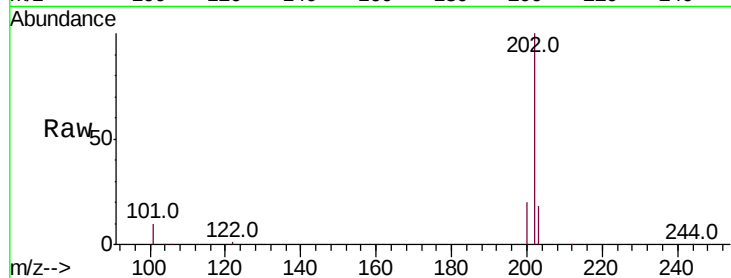
#26
Fluoranthene
Concen: 2.419 ng
RT: 19.11 min Scan# 1883
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW066-092519

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.3	8.4	12.6
203	17.7	13.8	20.8

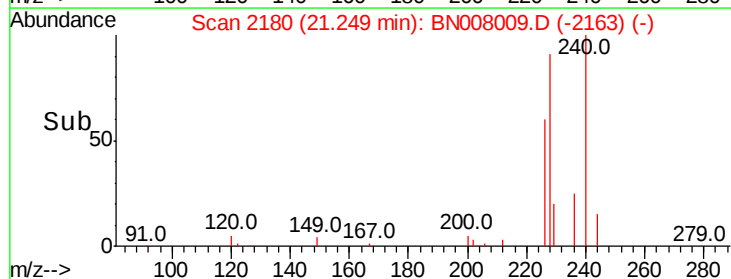
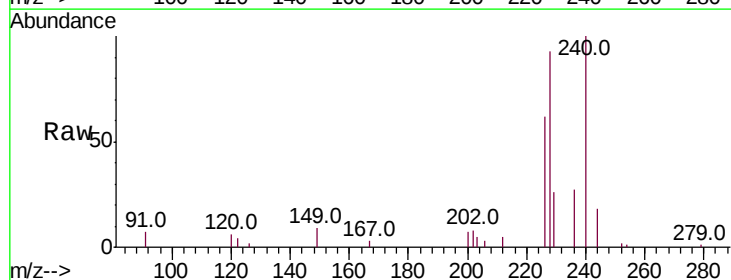
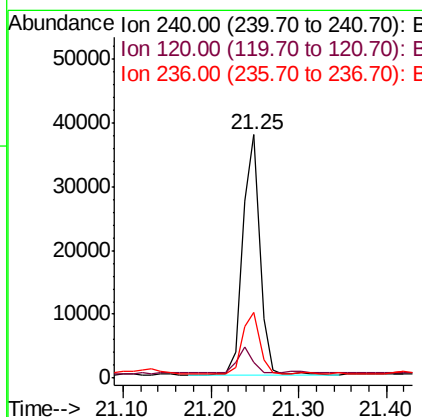
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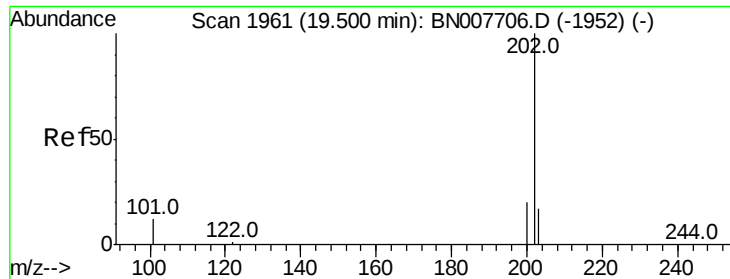
mohammad
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#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 2180
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Tgt Ion	Ratio	Lower	Upper
240	100		
120	6.4	5.4	8.2
236	26.9	21.0	31.4





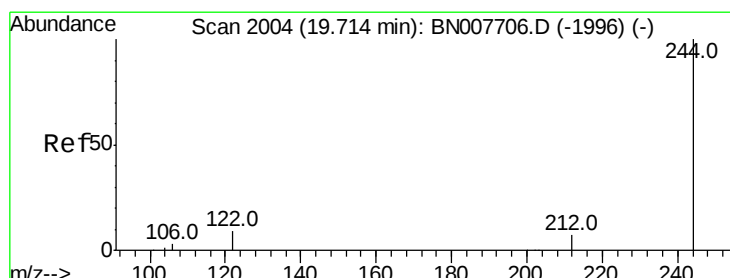
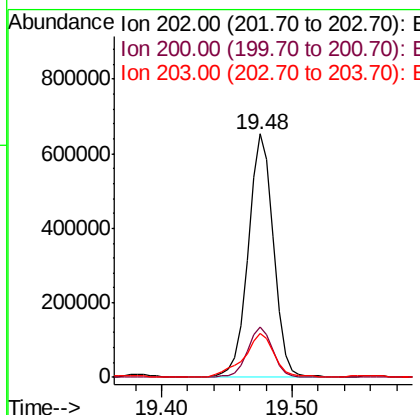
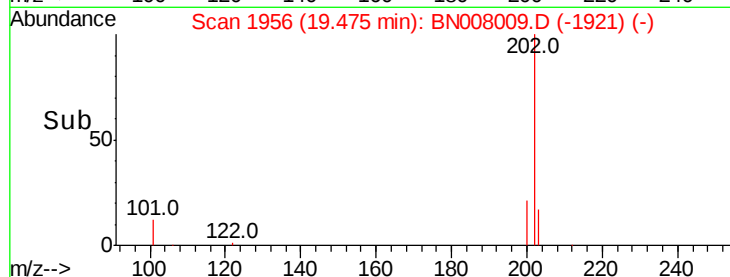
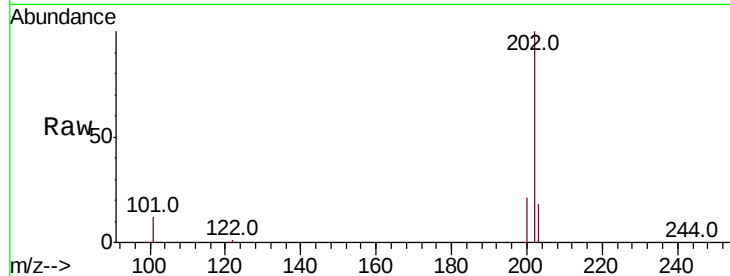
#28
Pvrene
Concen: 5.115 ng
RT: 19.48 min Scan# 1956
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW066-092519

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.5	16.4	24.6
203	21.3	14.1	21.1

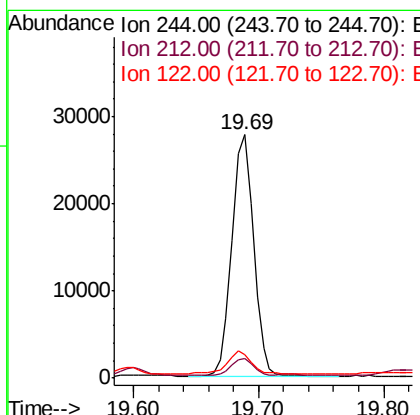
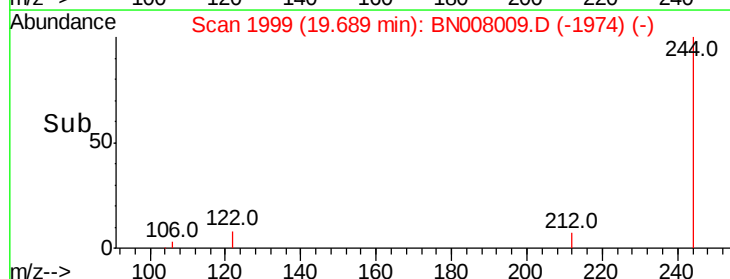
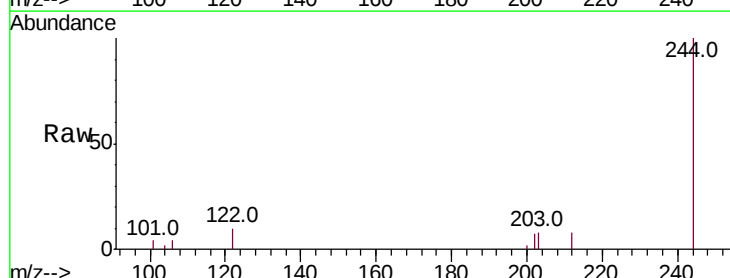
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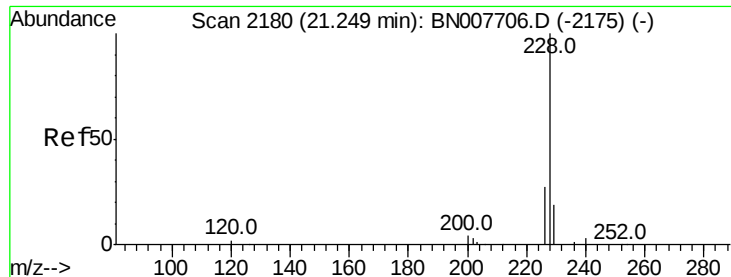
mohammad
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#29
Terphenyl-d14
Concen: 0.267 ng
RT: 19.69 min Scan# 1999
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	8.0	5.9	8.9
122	9.7	7.4	11.2





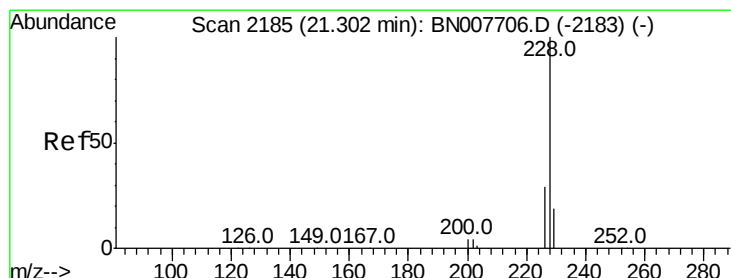
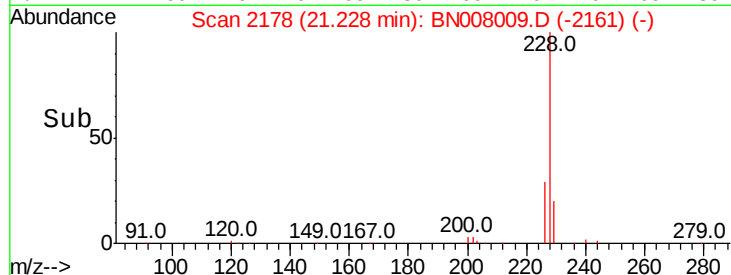
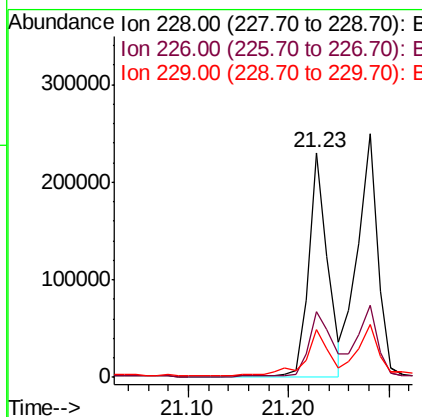
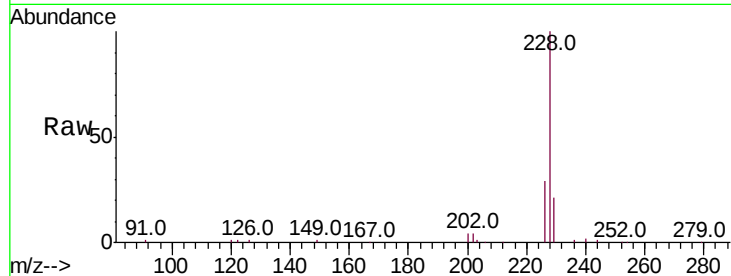
#30
Benzo(a)anthracene
Concen: 1.633 ng
RT: 21.23 min Scan# 2178
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW066-092519

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.1	33.1
229	21.1	15.8	23.6

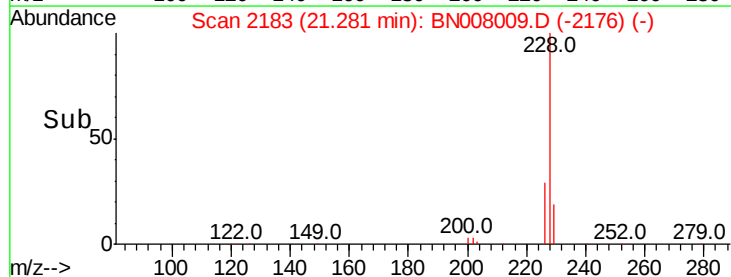
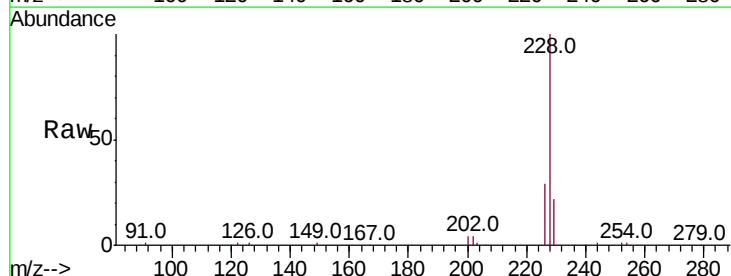
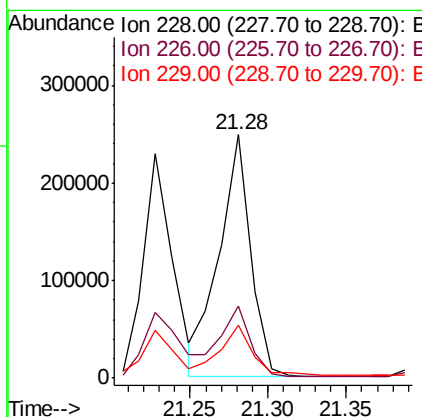
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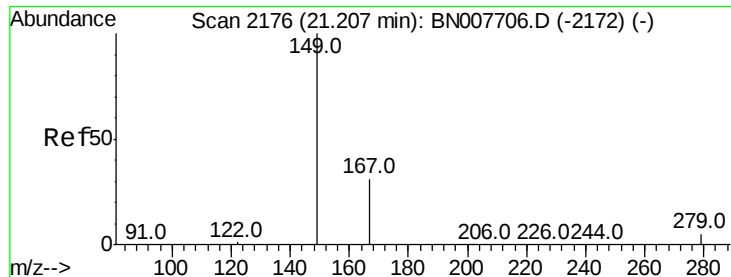
mohammad
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#31
Chrysene
Concen: 1.913 ng
RT: 21.28 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.9	35.9
229	21.7	15.8	23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.819 ng

RT: 21.17 min Scan# 2173

Delta R.T. -0.03 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Instrument :

BNA_N

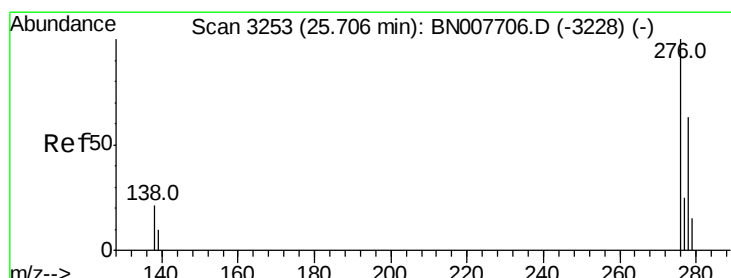
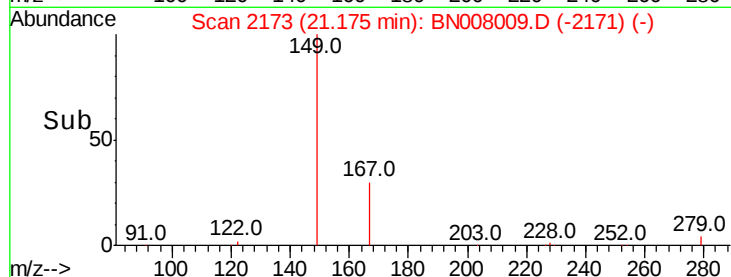
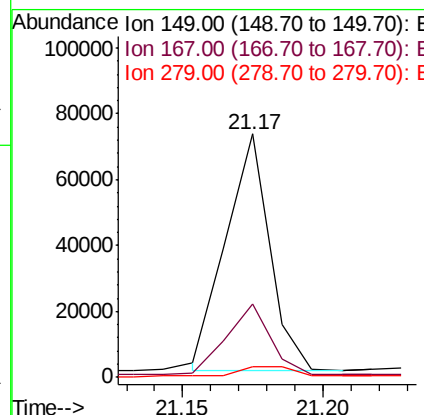
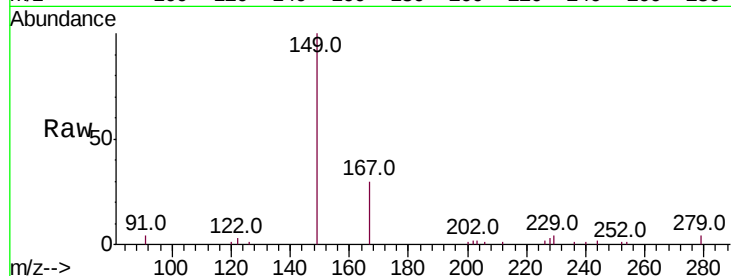
ClientSampleId :

EXT-024-SW066-092519

Tot Ion:	149	Resp:	78383
Ion Ratio	Lower	Upper	
149	100		
167	29.7	23.7	35.5
279	5.3	4.2	6.2

Manual Integrations
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#33

Indeno(1,2,3-cd)pyrene

Concen: 1.458 ng

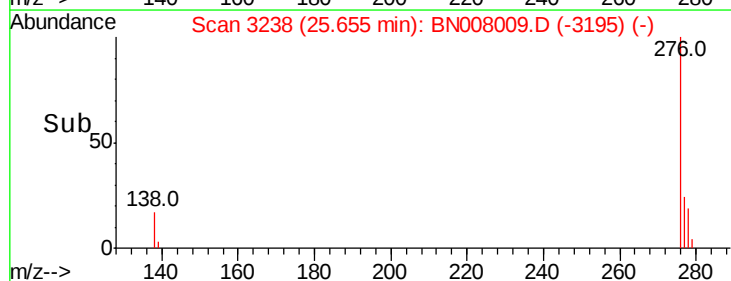
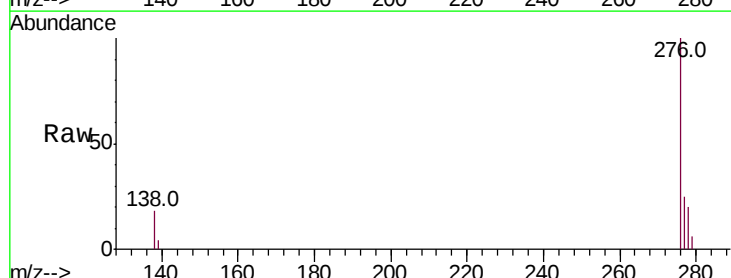
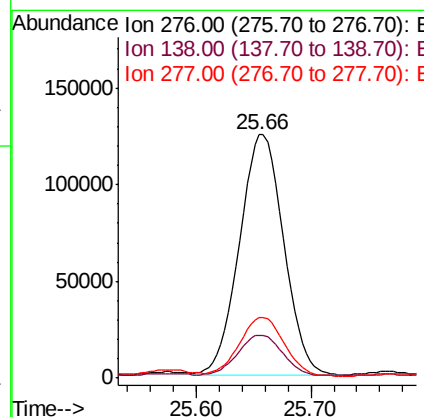
RT: 25.66 min Scan# 3238

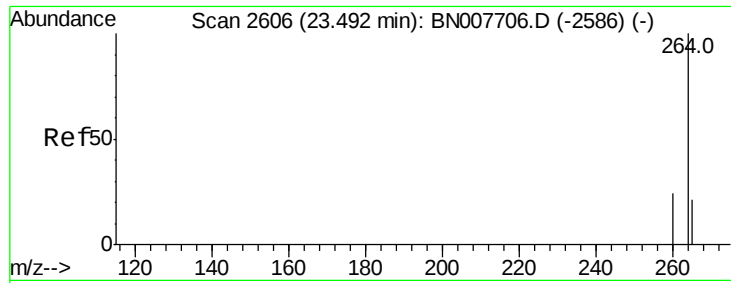
Delta R.T. -0.05 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Tgt Ion:	276	Resp:	331137
Ion Ratio	Lower	Upper	
276	100		
138	17.2	17.1	25.7
277	24.7	20.0	30.0





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.45 min Scan# 2595

Delta R.T. -0.04 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Instrument :

BNA_N

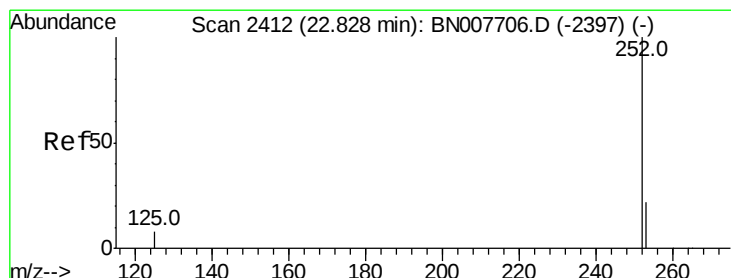
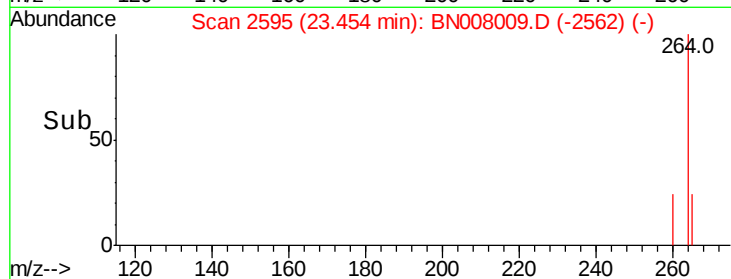
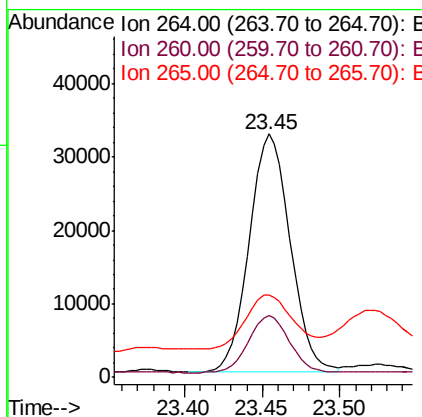
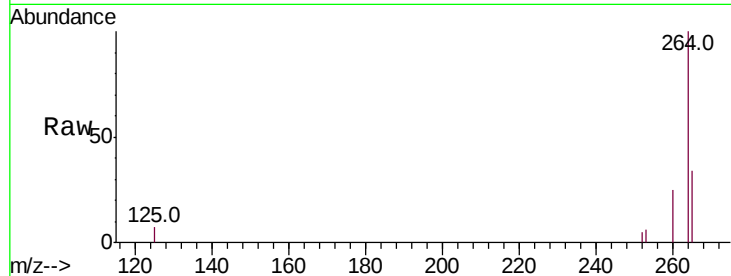
ClientSampleId :

EXT-024-SW066-092519

Tot Ion:	264	Resp:	59042
Ion Ratio	Lower	Upper	
264	100		
260	25.4	19.3	28.9
265	34.1	26.9	40.3

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#35

Benzo(b)fluoranthene

Concen: 2.134 ng

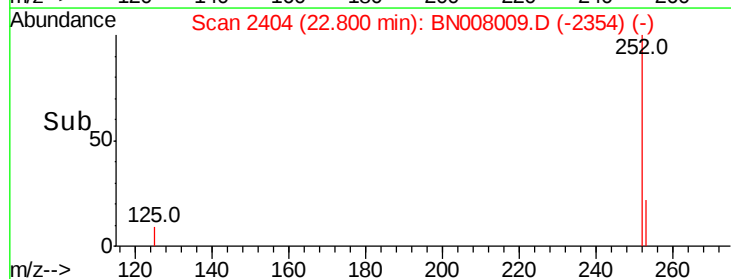
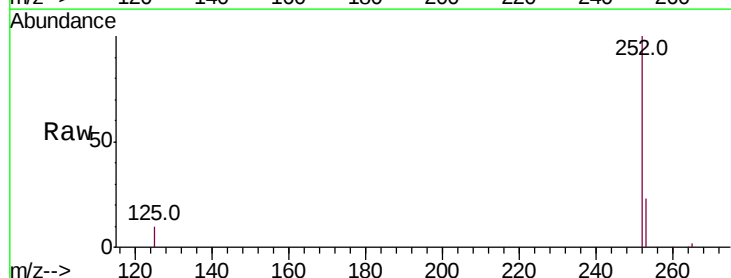
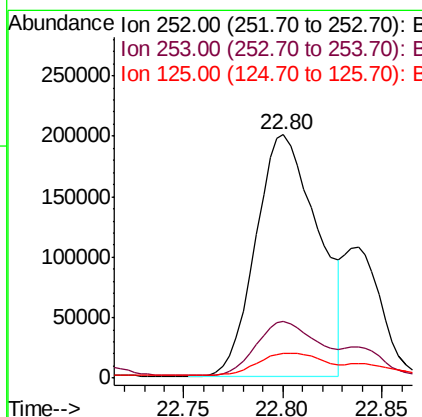
RT: 22.80 min Scan# 2404

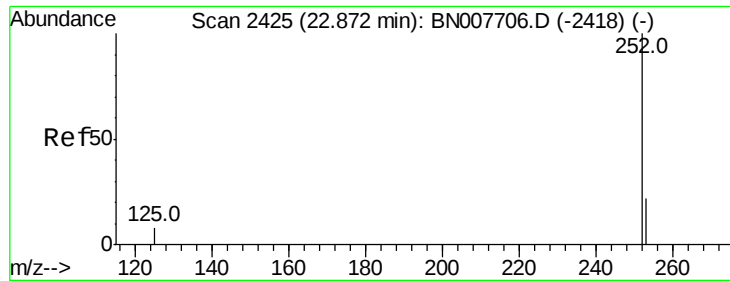
Delta R.T. -0.03 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Tgt Ion:	252	Resp:	437464
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.3	27.5
125	10.3	8.2	12.4





#36

Benzo(k)fluoranthene

Concen: 0.688 ng/mL

RT: 22.84 min Scan# 2415

Delta R.T. -0.03 min

Lab File: BN008009.D

Acq: 04 Oct 2019 18:35

Instrument :

BNA_N

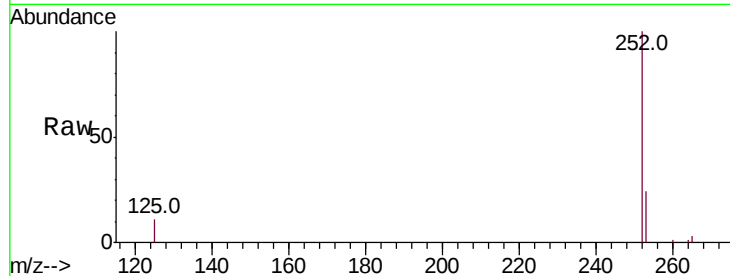
ClientSampleId :

EXT-024-SW066-092519

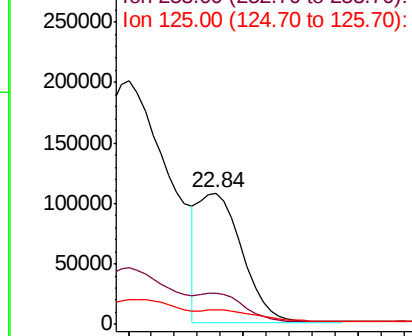
Tot Ion:	252	Resp:	139548
Ion Ratio	Lower	Upper	
252	100		
253	24.2	18.5	27.7
125	11.1	8.4	12.6

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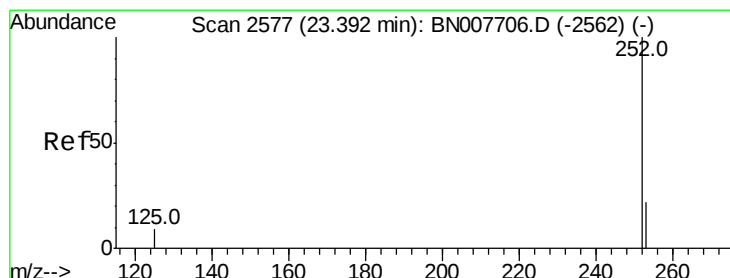
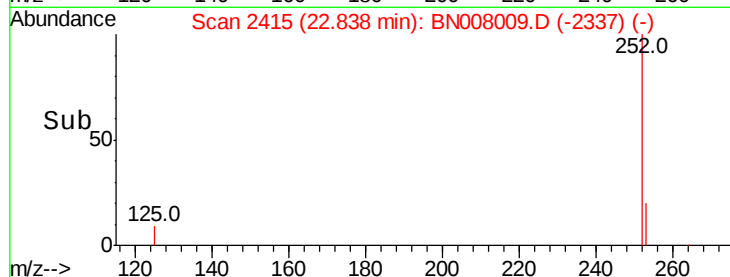
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->



#37

Benzo(a)pyrene

Concen: 1.578 ng/mL

RT: 23.36 min Scan# 2567

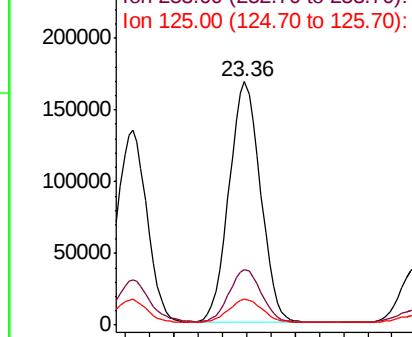
Delta R.T. -0.03 min

Lab File: BN008009.D

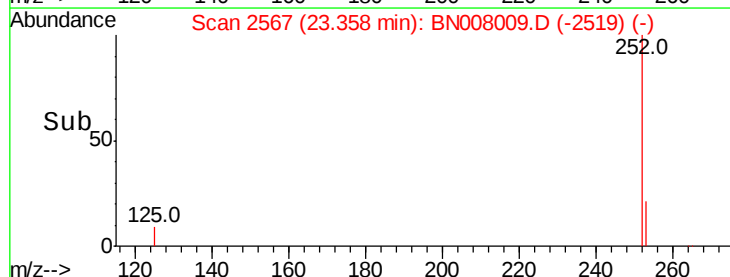
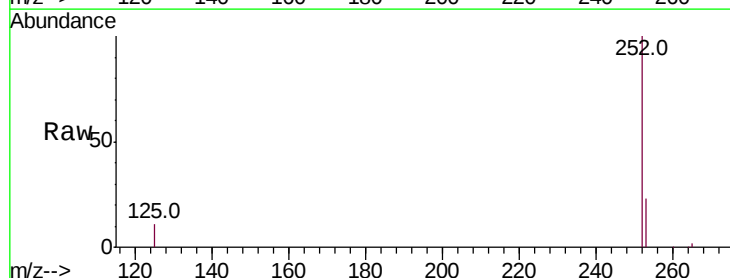
Acq: 04 Oct 2019 18:35

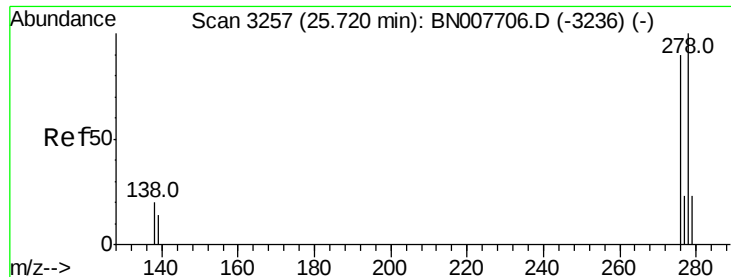
Tgt Ion:	252	Resp:	303883
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.6	27.8
125	10.8	9.4	14.0

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





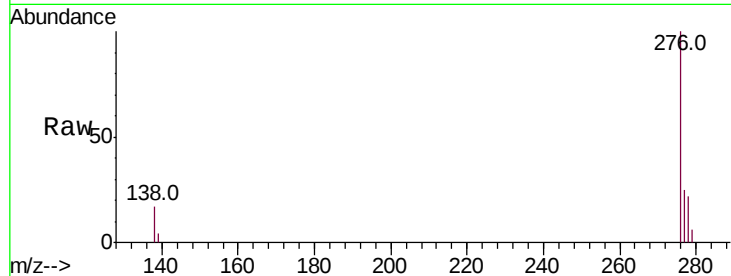
#38
Dibenzo(a,h)anthracene
Concen: 0.401 ng
RT: 25.66 min Scan# 3240
Delta R.T. -0.06 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW066-092519

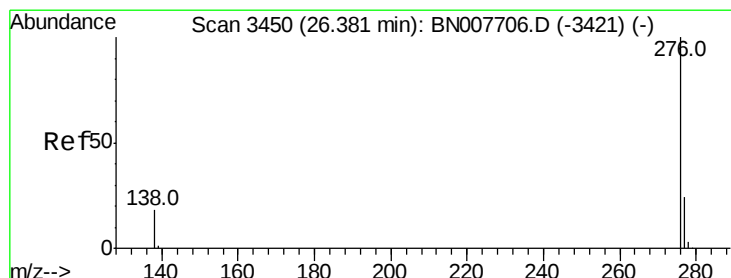
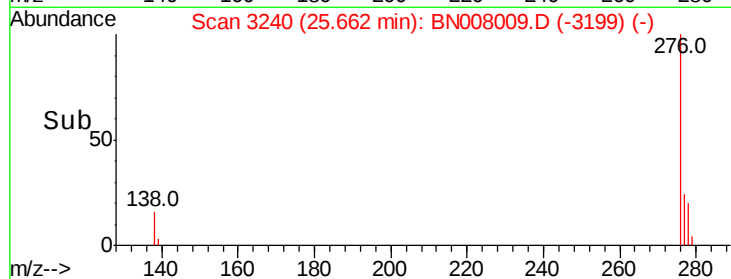
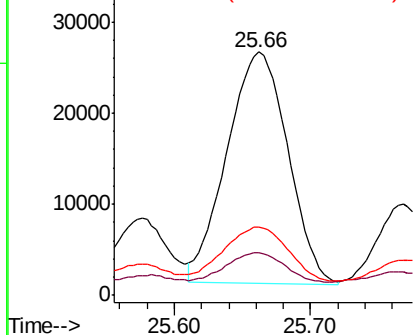
Tot Ion	Ratio	Lower	Upper
278	100		
139	17.5	11.8	17.6
279	28.1	19.4	29.2

Manual Integrations
APPROVED

mohammad
10/7/2019 8:45:23 AM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39
Benzo(g,h,i)perylene
Concen: 1.848 ng
RT: 26.33 min Scan# 3434
Delta R.T. -0.05 min
Lab File: BN008009.D
Acq: 04 Oct 2019 18:35

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.8	29.8
138	18.2	15.1	22.7

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

