

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050219\
 Data File : BN005437.D
 Acq On : 03 May 2019 04:13
 Operator : JU/SJ
 Sample : K2603-16 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAJ68

Manual Integrations
 APPROVED

Sohil
 5/3/2019 4:57:33 PM

Quant Time: May 06 06:40:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 03 03:02:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	387871	20.00	ng/ul	0.00
18) Naphthalene-d8	10.36	136	1545711	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.23	164	1026148	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	2194916	20.00	ng/ul	0.01
77) Chrysene-d12	21.21	240	1814825	20.00	ng/ul	0.00
85) Perylene-d12	23.41	264	1773721	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.21	96	5497m	0.68	ng/uL	0.00
5) Phenol-d5	6.78	99	116677	3.83	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.94	67	81001	4.26	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	101091	4.34	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	90555	3.80	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	60650	6.38	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	57580	5.97	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	106621	4.82	ng/ul	0.00
29) 4-Chloroaniline-d4	0.00	131	0d	0.00	ng/ul	
43) Dimethylphthalate-d6	13.65	166	352828	4.74	ng/ul	0.00
46) Acenaphthylene-d8	13.93	160	434712	4.75	ng/ul	0.01
51) 4-Nitrophenol-d4	14.46	143	63835	5.43	ng/ul	0.02
57) Fluorene-d10	15.23	176	308506	4.93	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.40	200	30824m	3.12	ng/ul	0.04
70) Anthracene-d10	17.09	188	477295	5.19	ng/ul	0.01
78) Pyrene-d10	19.40	212	519067	5.59	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.27	264	393538	5.08	ng/ul	-0.01

Target Compounds

					Ovalue	
28) Naphthalene	10.42	128	24220136m	337.058	ng/ul	
34) 2-Methylnaphthalene	12.05	142	21871013m	415.681	ng/ul	
40) 1,1'-Biphenyl	13.06	154	2540487	33.227	ng/ul	98
44) Dimethylphthalate	13.69	163	134264	1.809	ng/ul#	84
47) Acenaphthylene	13.96	152	9857097	109.631	ng/ul#	94
49) Acenaphthene	14.30	153	1329012	21.652	ng/ul	98
53) Dibenzofuran	14.63	168	1415666	16.019	ng/ul	89
58) Fluorene	15.29	166	6128802	88.874	ng/ul	97
69) Phenanthrene	17.04	178	19217639m	179.779	ng/ul	
71) Anthracene	17.13	178	5478759	50.313	ng/ul	99
74) Carbazole	17.39	167	454804	4.862	ng/ul#	86
76) Fluoranthene	19.06	202	5220727	44.032	ng/ul	96
79) Pyrene	19.43	202	7350914	62.909	ng/ul#	95
82) Benzo(a)anthracene	21.20	228	2273909m	20.141	ng/ul	
84) Chrysene	21.25	228	2054019	19.603	ng/ul	98
87) Benzo(b)fluoranthene	22.76	252	1101298	11.045	ng/ul	99
88) Benzo(k)fluoranthene	22.80	252	289574m	3.041	ng/ul	
90) Benzo(a)pyrene	23.32	252	1215472	12.969	ng/ul	96
91) Indeno(1,2,3-cd)pyrene	25.59	276	416337	4.018	ng/ul	96
92) Dibenzo(a,h)anthracene	25.60	278	129186	1.469	ng/ul	98
93) Benzo(a,h,i)perylene	26.25	276	428191	4.998	ng/ul	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

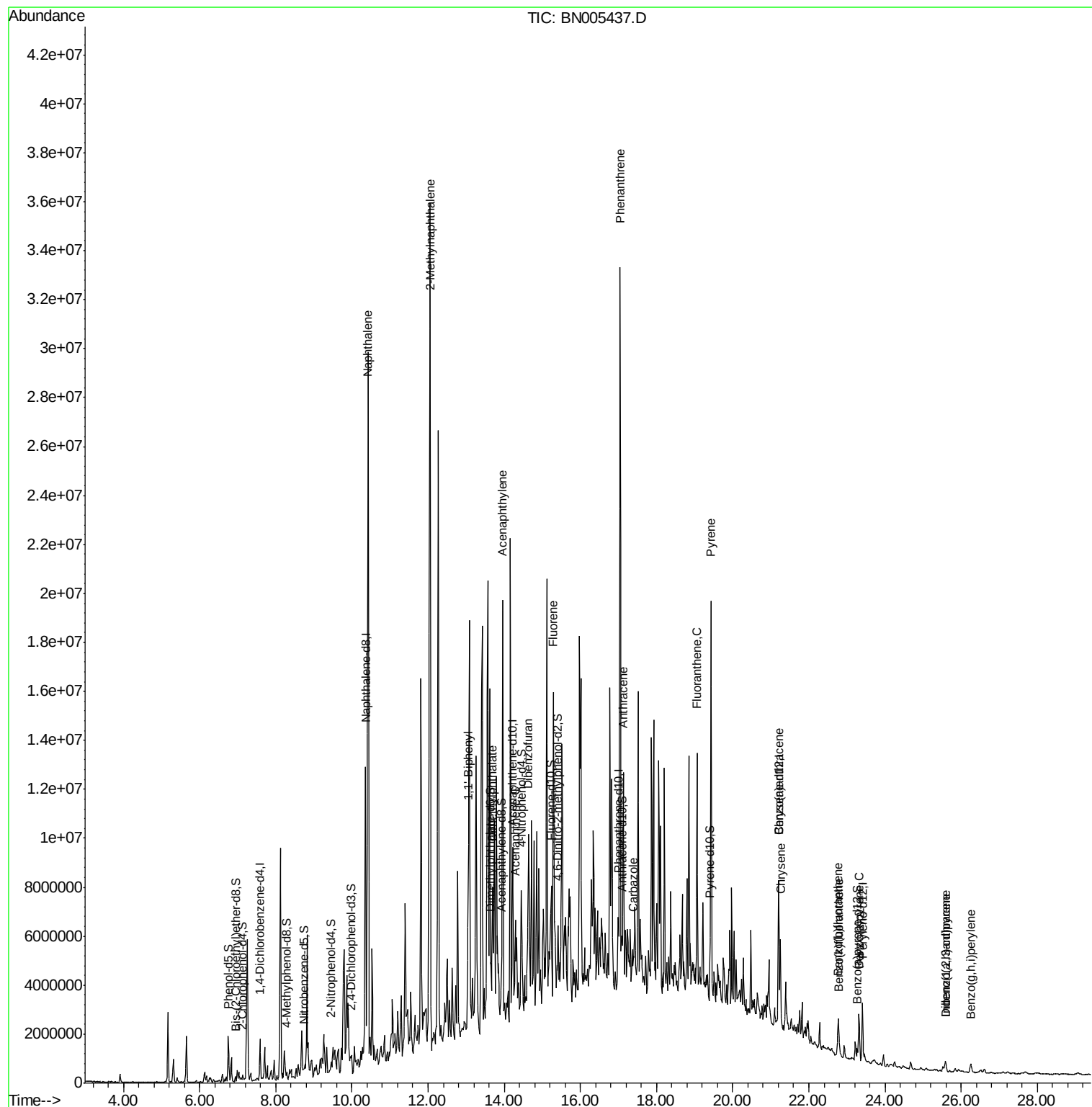
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050219\
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Operator : JU/SJ
Sample : K2603-16 5X
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ALS Vial : 22 Sample Multiplier: 1

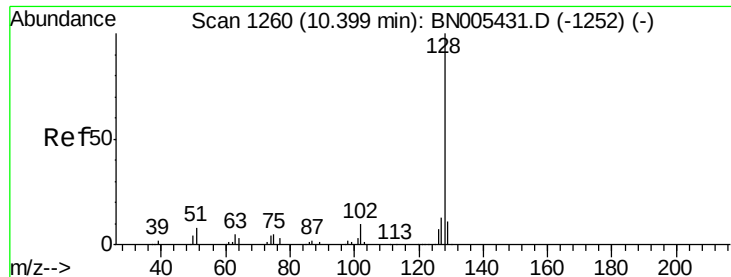
Instrument :
BNA_N
ClientSampled :
GAJ68

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#28

Naphthalene

Concen: 337.058 ng/ul m

RT: 10.42 min Scan# 1263

Delta R.T. 0.02 min

Lab File: BN005437.D

Acq: 03 May 2019 04:13

Instrument :

BNA_N

ClientSampled :

GAJ68

Tot Ion:128 Resp:24220136

Ion Ratio Lower Upper

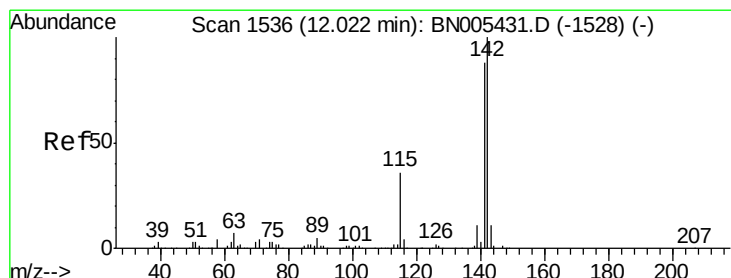
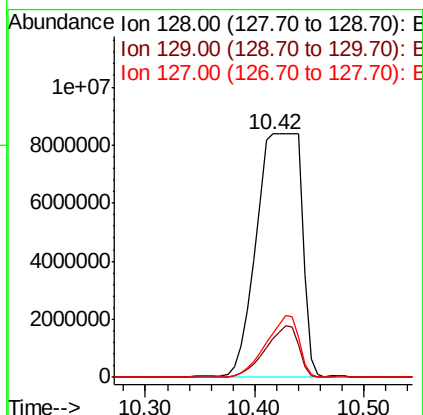
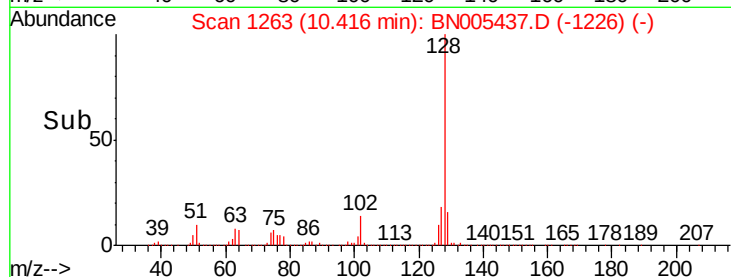
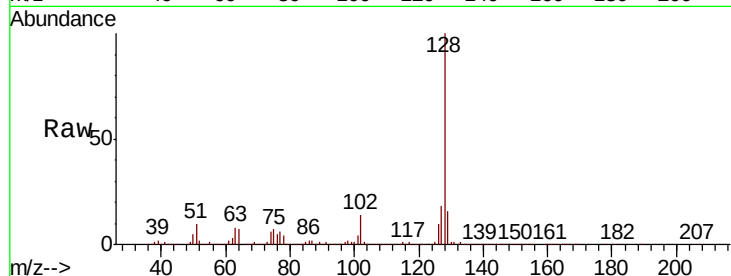
128 100

129 16.0 9.2 13.8#

127 18.3 10.7 16.1#

Manual Integrations
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#34

2-Methylnaphthalene

Concen: 415.681 ng/ul m

RT: 12.05 min Scan# 1540

Delta R.T. 0.02 min

Lab File: BN005437.D

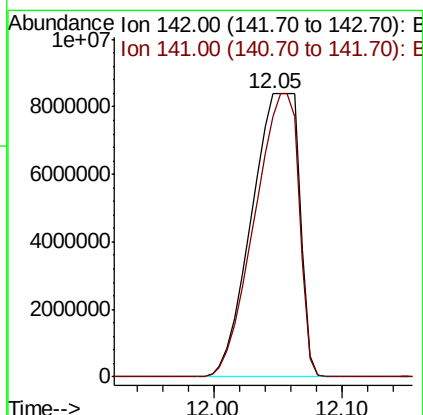
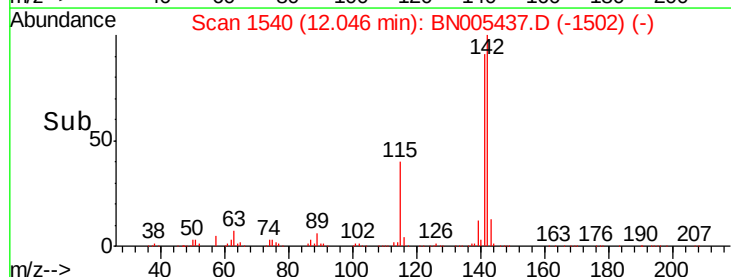
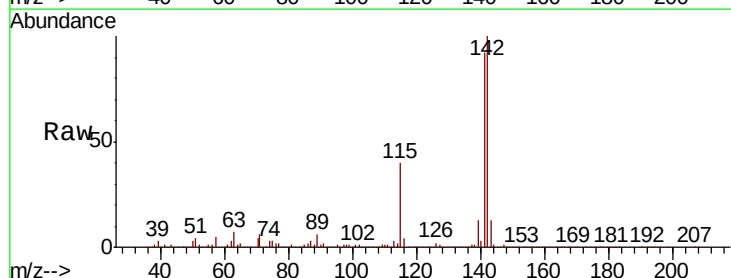
Acq: 03 May 2019 04:13

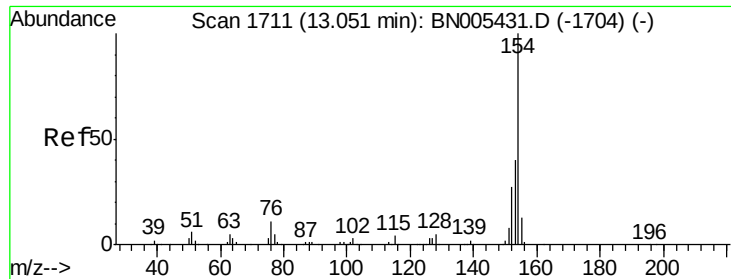
Tgt Ion:142 Resp:21871013

Ion Ratio Lower Upper

142 100

141 92.1 72.0 108.0





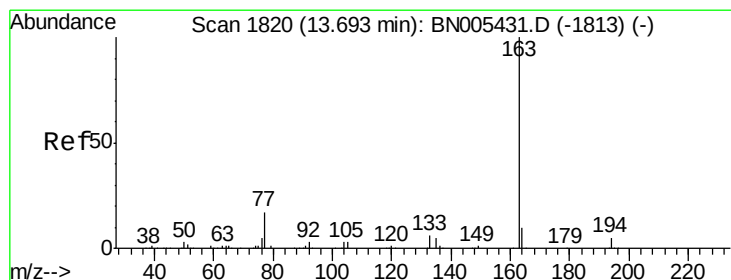
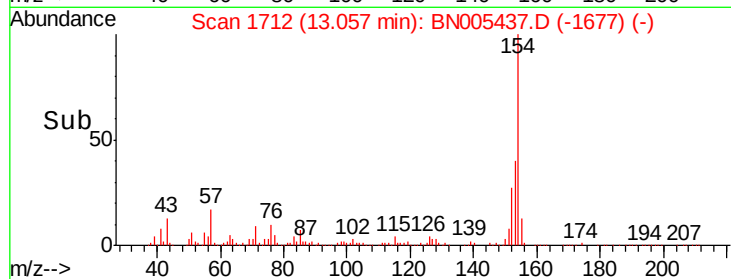
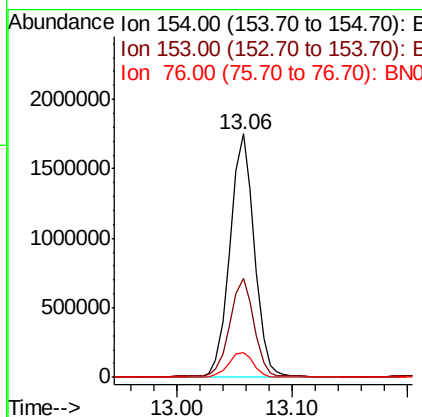
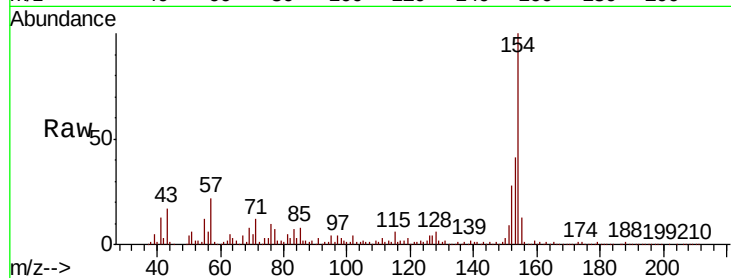
#40
 1,1'-Biphenyl
 Concen: 33.227 ng/ul
 RT: 13.06 min Scan# 1712
 Delta R.T. 0.01 min
 Lab File: BN005437.D
 Acq: 03 May 2019 04:13

Instrument :
 BNA_N
 ClientSampleId :
 GAJ68

Tot Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.6	49.0
76	10.4	10.4	15.6

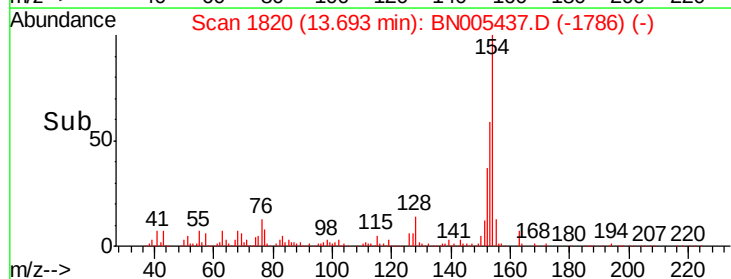
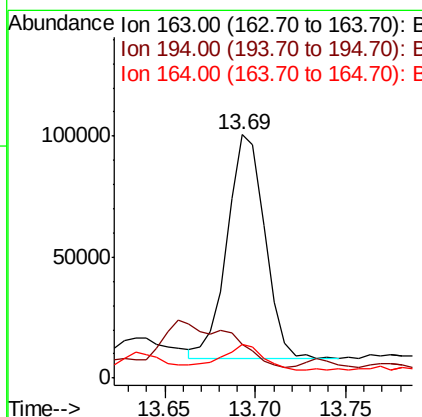
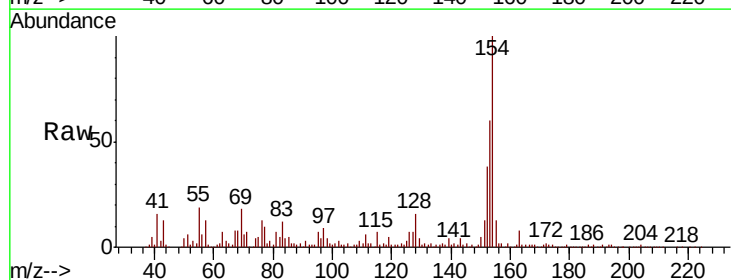
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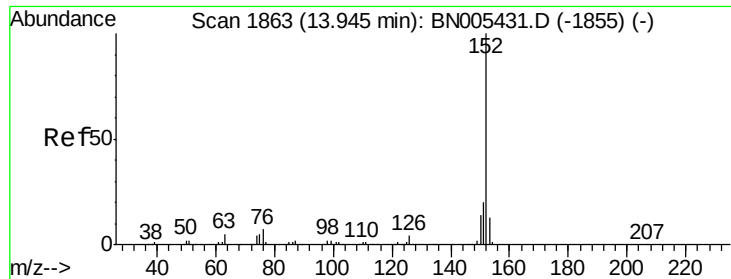
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#44
 Dimethylphthalate
 Concen: 1.809 ng/ul
 RT: 13.69 min Scan# 1820
 Delta R.T. 0.00 min
 Lab File: BN005437.D
 Acq: 03 May 2019 04:13

Tgt Ion	Ratio	Lower	Upper
163	100		
194	13.8	3.4	5.0#
164	13.9	8.1	12.1#





#47

Acenaphthylene

Concen: 109.631 ng/ul

RT: 13.96 min Scan# 1866

Delta R.T. 0.02 min

Lab File: BN005437.D

Acq: 03 May 2019 04:13

Instrument :

BNA_N

ClientSampleId :

GAJ68

Tot Ion:152 Resp: 9857097

Ion Ratio Lower Upper

152 100

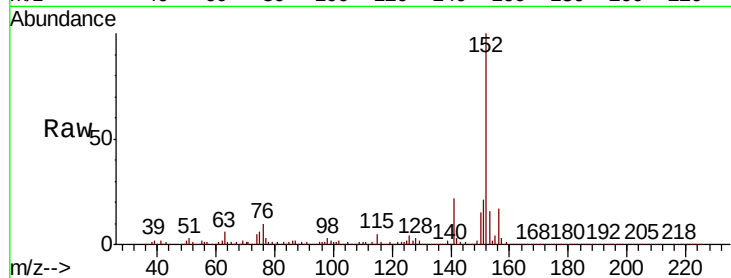
151 21.1 15.8 23.8

153 16.1 9.8 14.8#

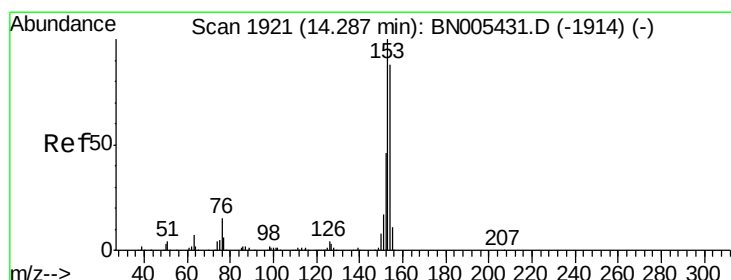
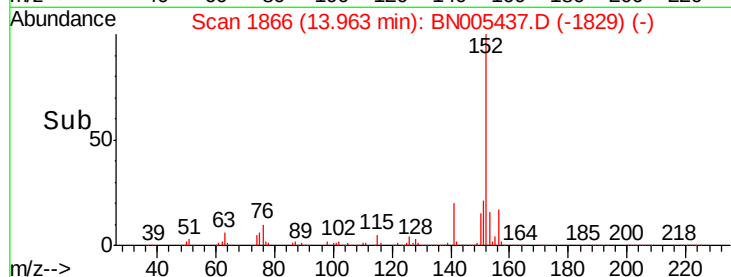
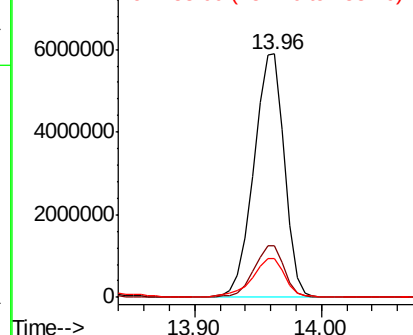
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Abundance Ion 152.00 (151.70 to 152.70): E
8000000
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 21.652 ng/ul

RT: 14.30 min Scan# 1923

Delta R.T. 0.01 min

Lab File: BN005437.D

Acq: 03 May 2019 04:13

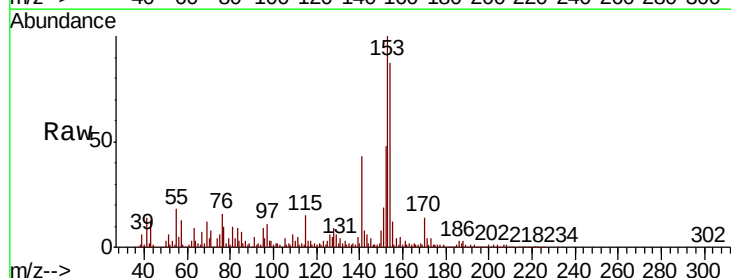
Tgt Ion:153 Resp: 1329012

Ion Ratio Lower Upper

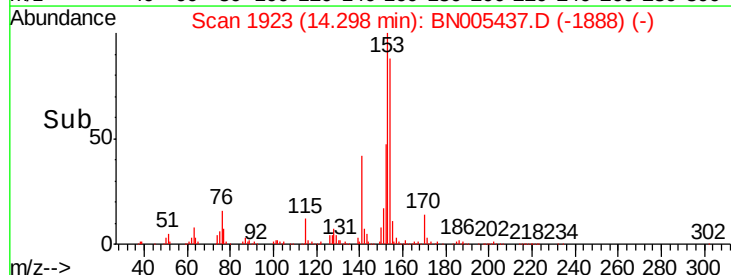
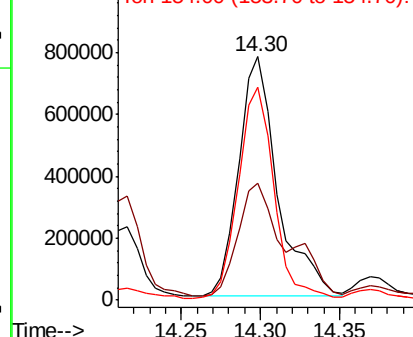
153 100

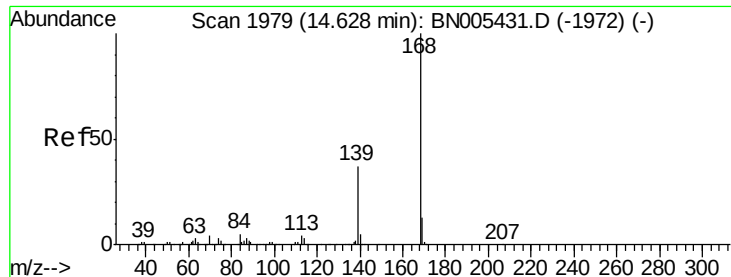
152 48.1 37.4 56.0

154 87.4 71.2 106.8



Abundance Ion 153.00 (152.70 to 153.70): E
1000000
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E





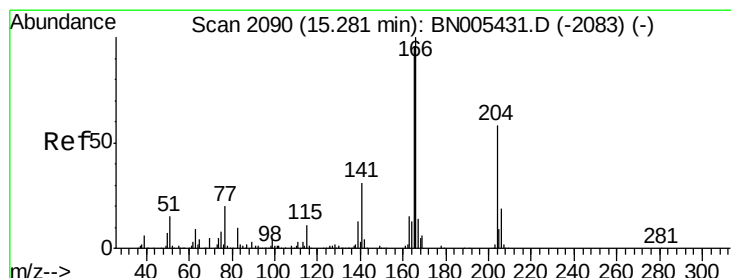
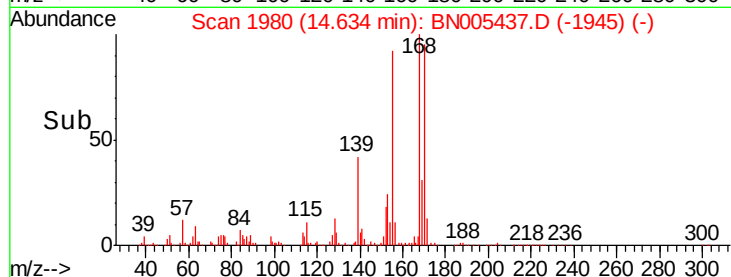
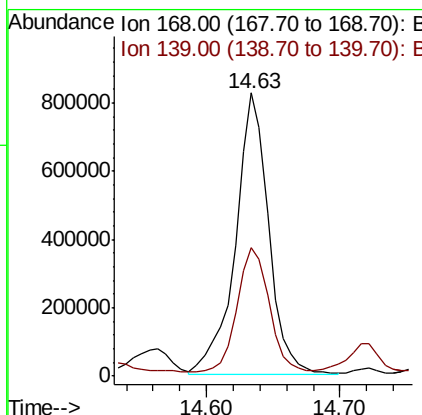
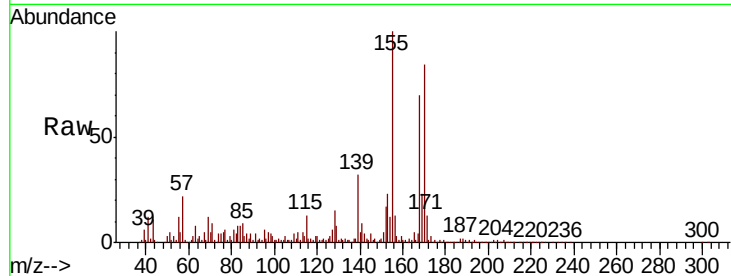
#53
Dibenzenofuran
Concen: 16.019 ng/ul
RT: 14.63 min Scan# 1980
Delta R.T. 0.01 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Instrument :
BNA_N
ClientSampleId :
GAJ68

Tot Ion:168 Resp: 1415666
Ion Ratio Lower Upper
168 100
139 45.5 30.9 46.3

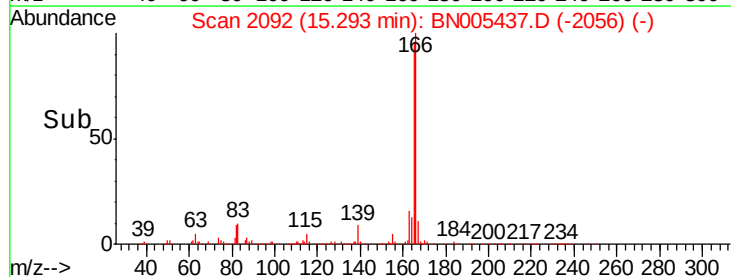
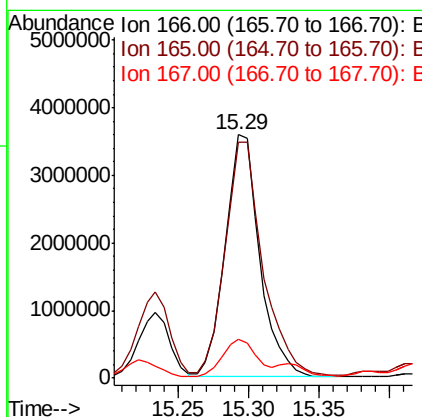
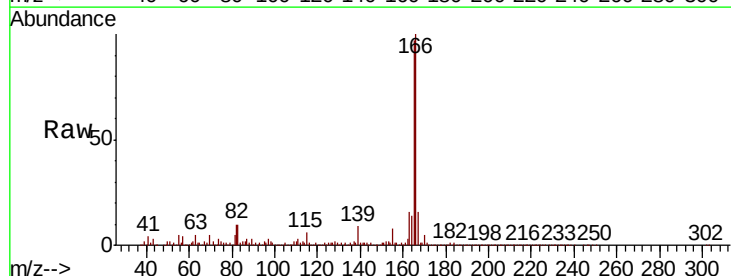
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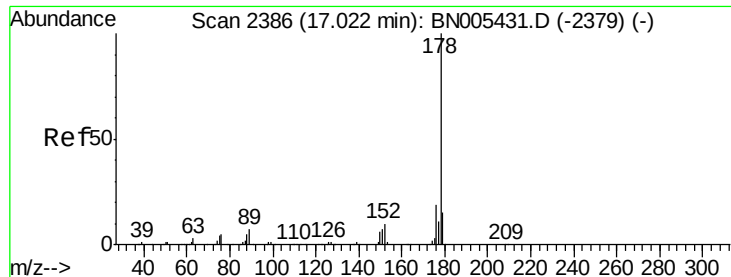
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#58
Fluorene
Concen: 88.874 ng/ul
RT: 15.29 min Scan# 2092
Delta R.T. 0.01 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Tgt Ion:166 Resp: 6128802
Ion Ratio Lower Upper
166 100
165 97.1 80.0 120.0
167 15.9 10.7 16.1





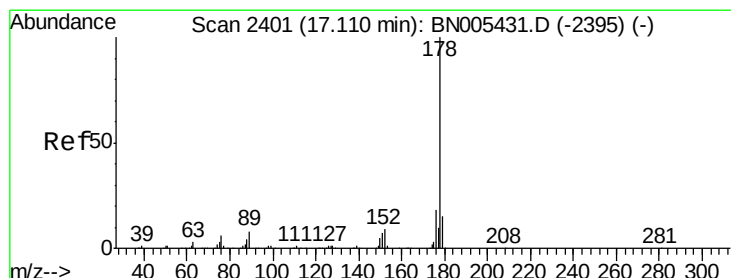
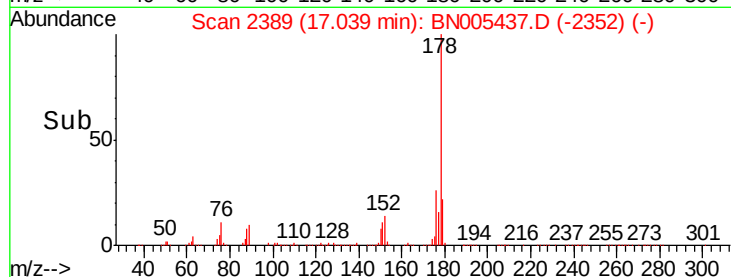
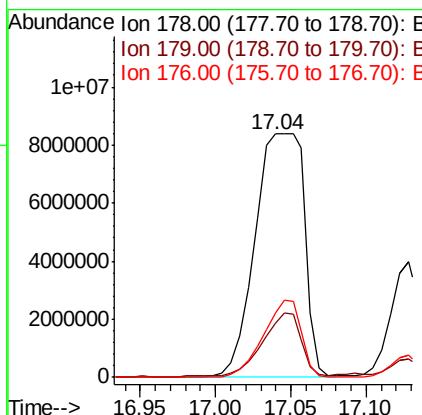
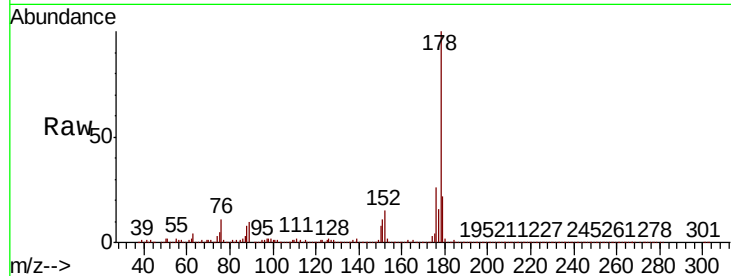
#69
Phenanthrene
Concen: 179.779 ng/ul m
RT: 17.04 min Scan# 2389
Delta R.T. 0.02 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Instrument :
BNA_N
ClientSampleId :
GAJ68

Tot Ion:178 Resp:19217639
Ion Ratio Lower Upper
178 100
179 22.1 12.2 18.4#
176 26.2 15.1 22.7#

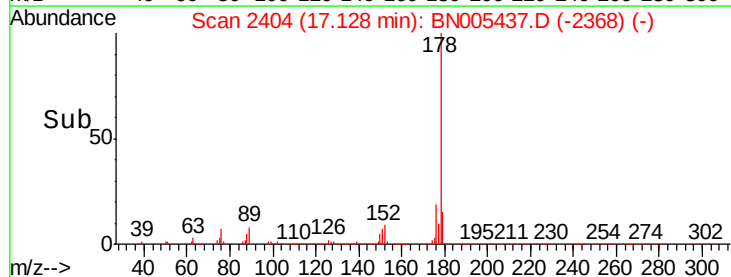
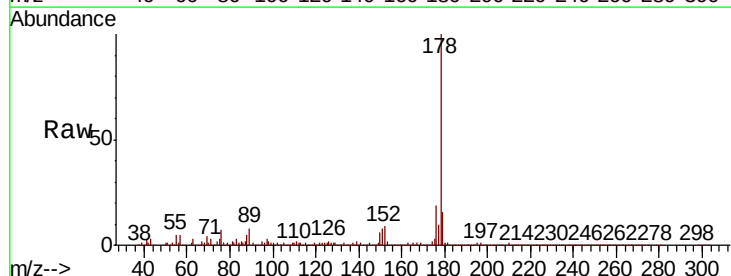
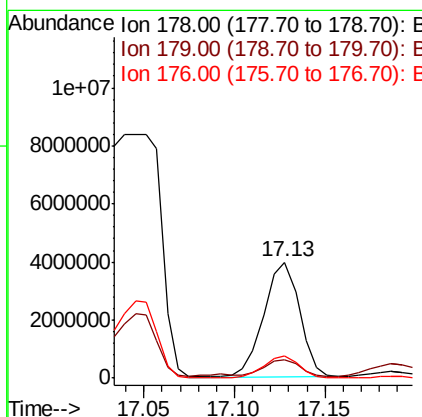
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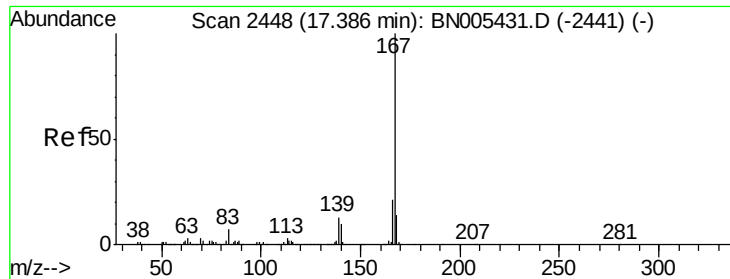
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#71
Anthracene
Concen: 50.313 ng/ul
RT: 17.13 min Scan# 2404
Delta R.T. 0.01 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Tgt Ion:178 Resp: 5478759
Ion Ratio Lower Upper
178 100
179 16.3 12.3 18.5
176 18.8 15.1 22.7





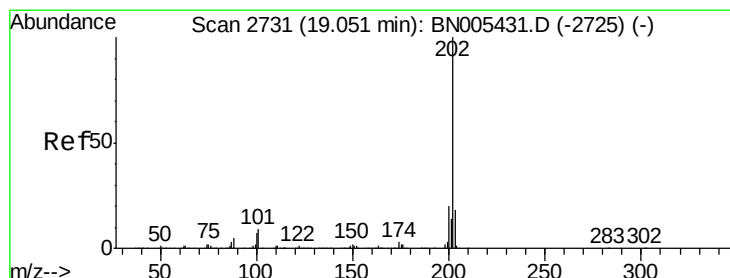
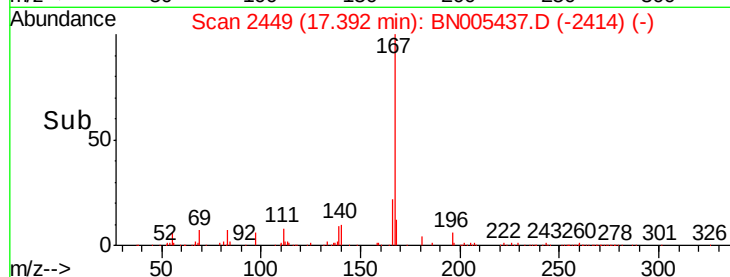
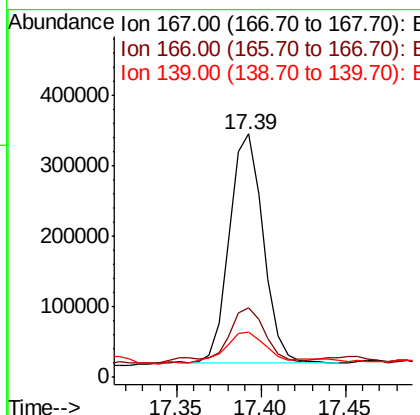
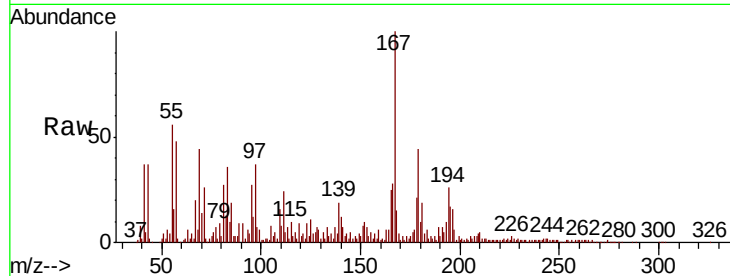
#74
 Carbazole
 Concen: 4.862 ng/ul
 RT: 17.39 min Scan# 2449
 Delta R.T. 0.01 min
 Lab File: BN005437.D
 Acq: 03 May 2019 04:13

Instrument :
 BNA_N
 ClientSampleId :
 GAJ68

Tot Ion	Ratio	Lower	Upper
167	100		
166	28.4	17.2	25.8#
139	18.7	10.6	16.0#

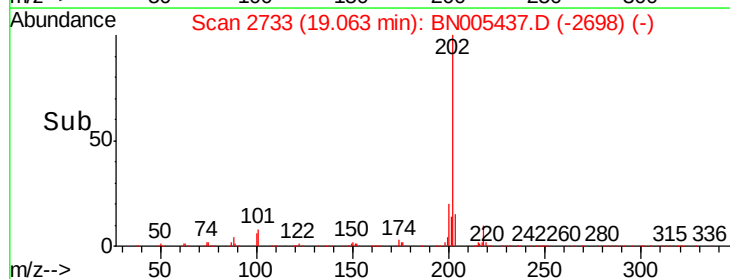
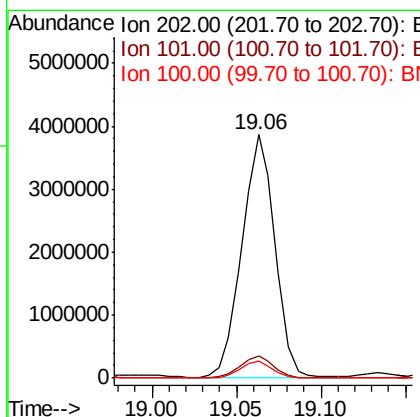
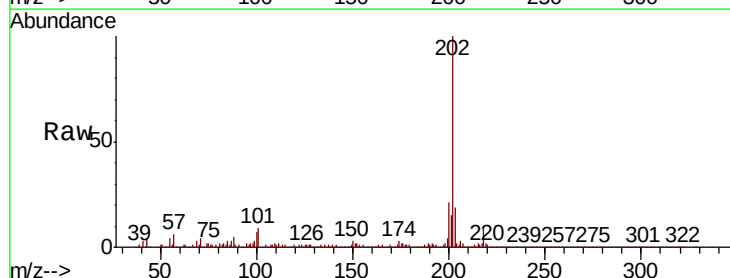
Manual Integrations
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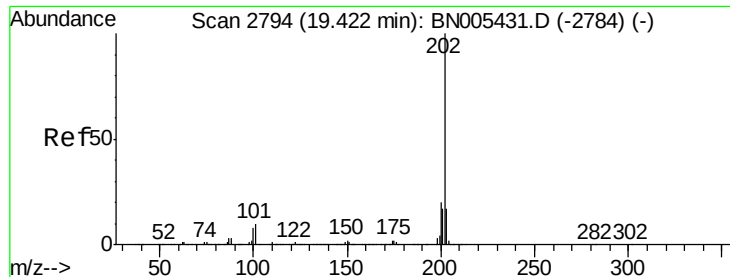
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#76
 Fluoranthene
 Concen: 44.032 ng/ul
 RT: 19.06 min Scan# 2733
 Delta R.T. 0.01 min
 Lab File: BN005437.D
 Acq: 03 May 2019 04:13

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.0	8.6	12.8
100	6.8	6.3	9.5





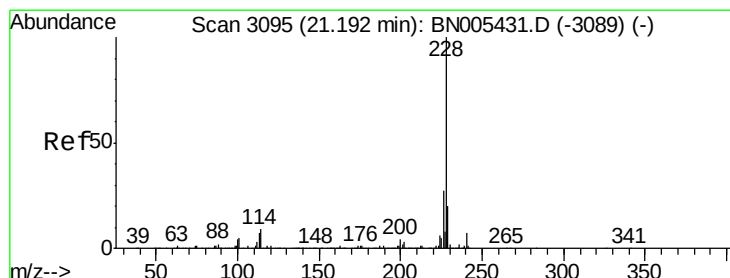
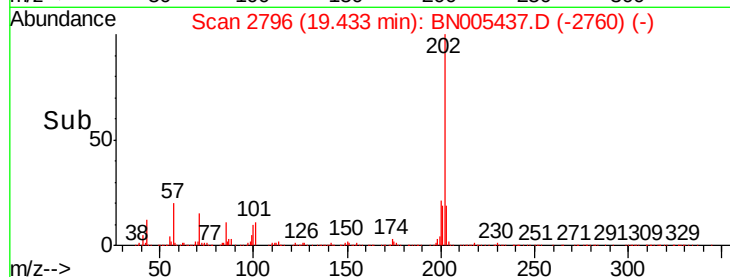
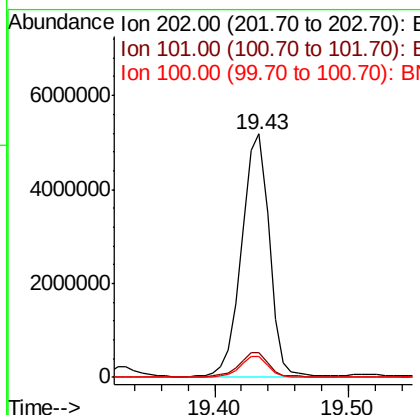
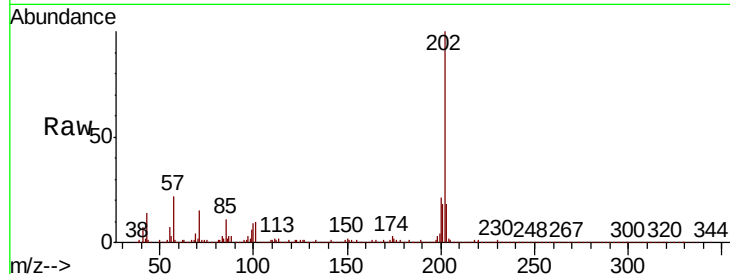
#79
Pvrene
Concen: 62.909 ng/ul
RT: 19.43 min Scan# 2796
Delta R.T. 0.01 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Instrument :
BNA_N
ClientSampled :
GAJ68

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.3	10.3	15.5#
100	8.8	7.9	11.9

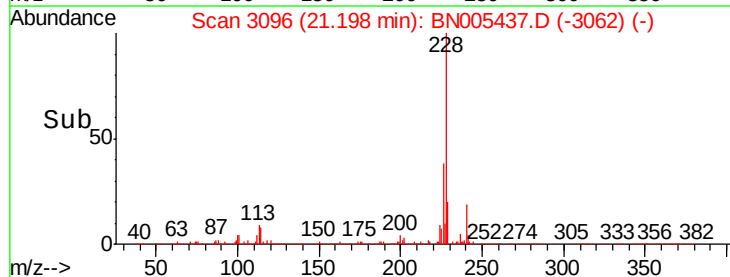
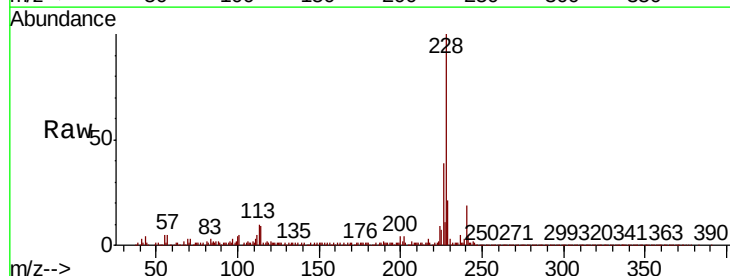
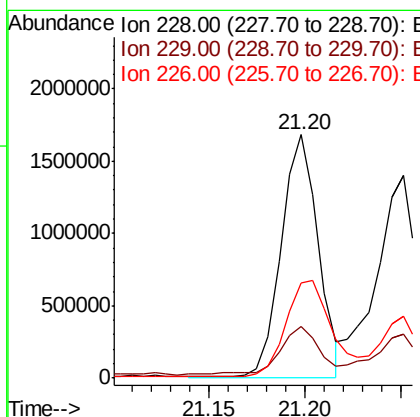
Manual Integrations
APPROVED

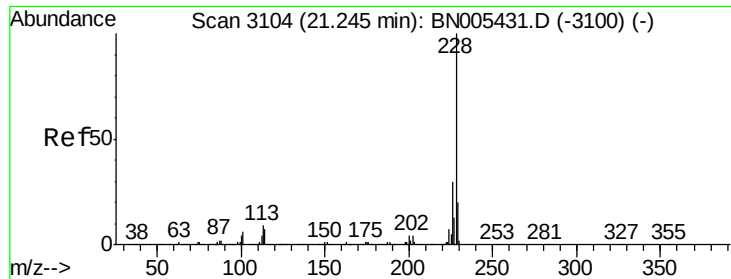
Sohil
5/3/2019 4:57:33 PM



#82
Benzo(a)anthracene
Concen: 20.141 ng/ul m
RT: 21.20 min Scan# 3096
Delta R.T. 0.00 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.4	15.8	23.6
226	39.0	21.4	32.2#





#84

Chrysene

Concen: 19.603 ng/ul

RT: 21.25 min Scan# 3105

Delta R.T. 0.00 min

Lab File: BN005437.D

Acq: 03 May 2019 04:13

Instrument :

BNA_N

ClientSampled :

GAJ68

Tot Ion:228 Resp: 2054019

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.0	36.0
229	21.3	15.4	23.0

228 100

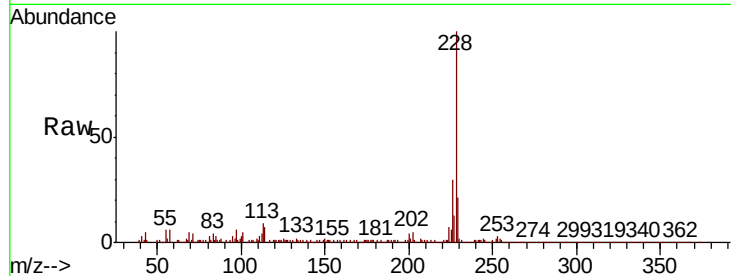
226 30.4 24.0 36.0

229 21.3 15.4 23.0

Manual Integrations
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Sohil

5/3/2019 4:57:33 PM

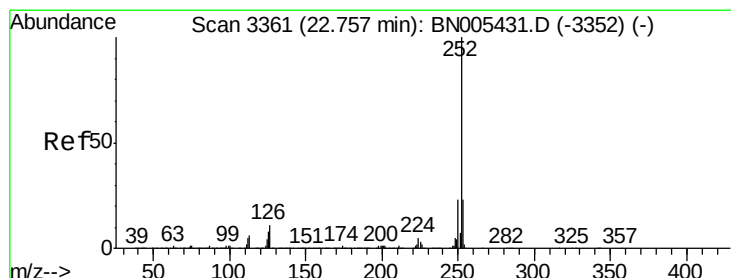
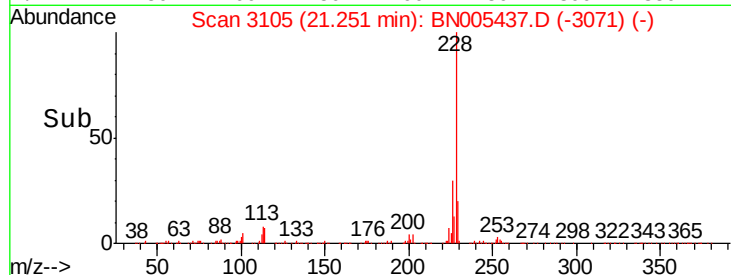
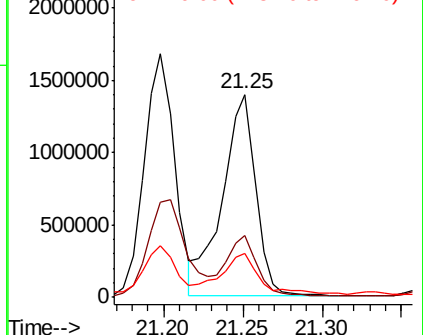


Abundance

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



#87

Benzo(b)fluoranthene

Concen: 11.045 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. 0.00 min

Lab File: BN005437.D

Acq: 03 May 2019 04:13

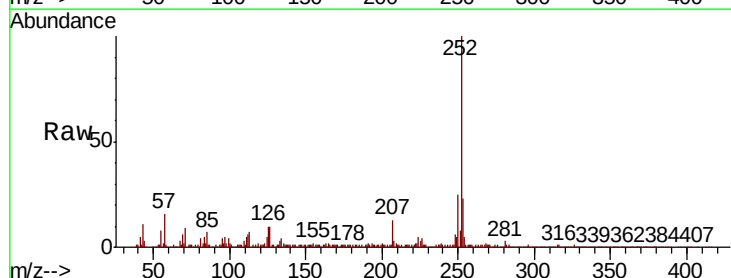
Tgt Ion:252 Resp: 1101298

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.7	26.5
125	10.1	8.4	12.6

252 100

253 22.8 17.7 26.5

125 10.1 8.4 12.6

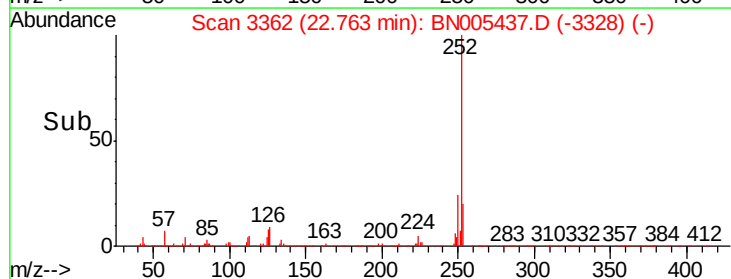
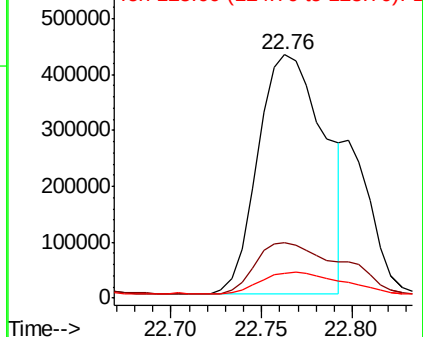


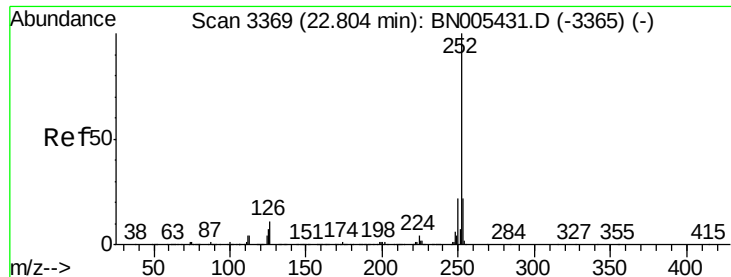
Abundance

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





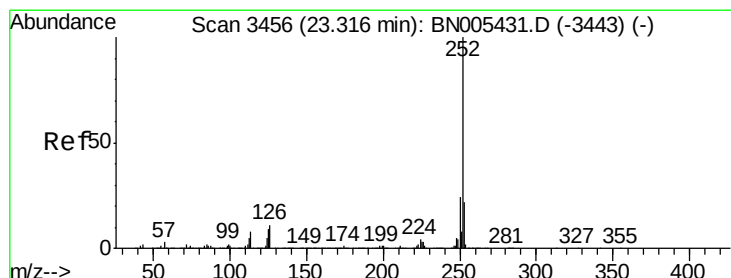
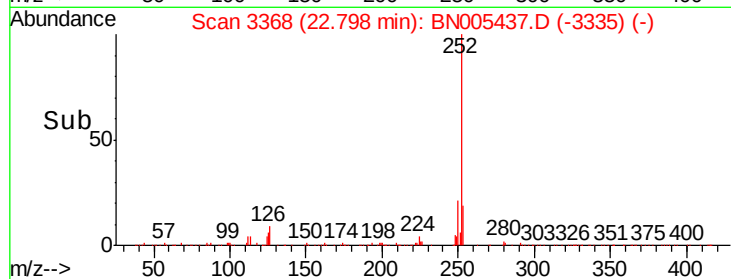
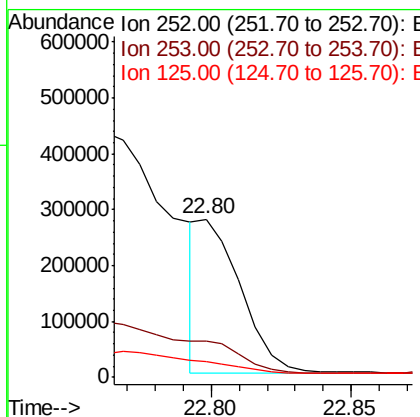
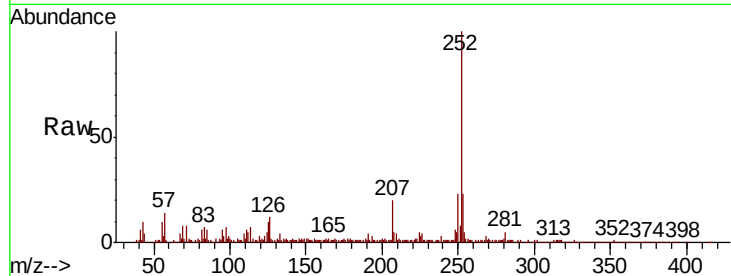
#88
Benzo(k)fluoranthene
Concen: 3.041 ng/ul m
RT: 22.80 min Scan# 3368
Delta R.T. -0.01 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Instrument :
BNA_N
ClientSampleId :
GAJ68

Tot Ion:	252	Resp:	289574
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.4	26.0
125	10.4	7.5	11.3

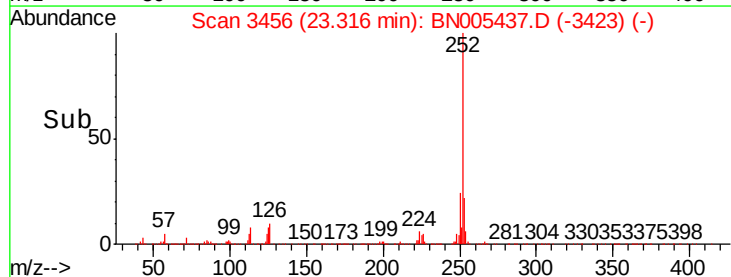
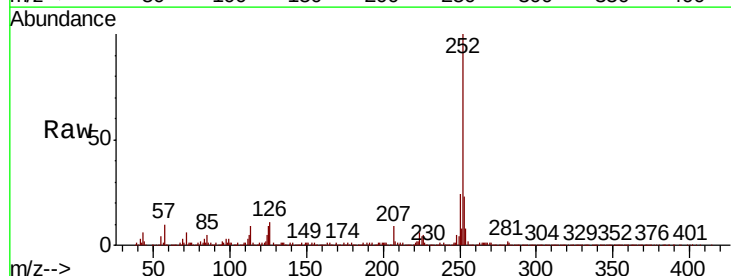
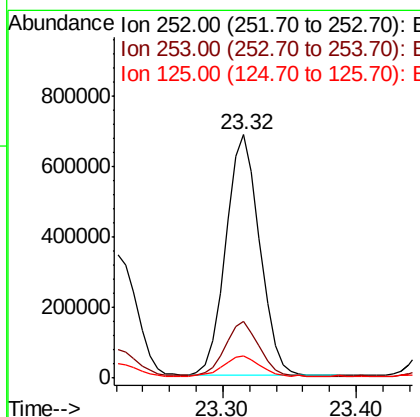
Manual Integrations
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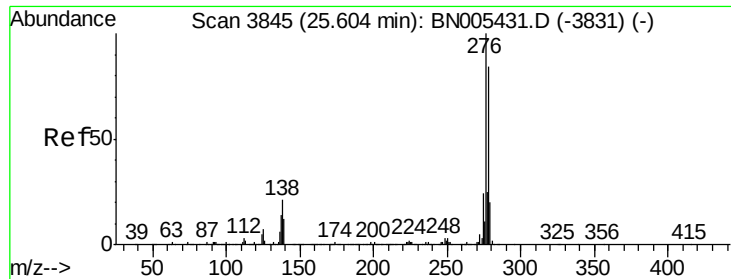
Sohil
5/3/2019 4:57:33 PM



#90
Benzo(a)pyrene
Concen: 12.969 ng/ul
RT: 23.32 min Scan# 3456
Delta R.T. -0.01 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Tgt Ion:	252	Resp:	1215472
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.3	25.9
125	8.9	8.6	13.0





#91

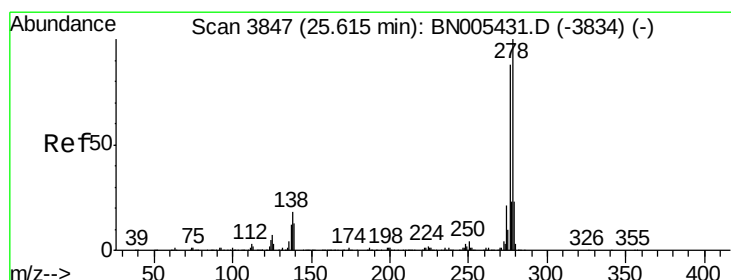
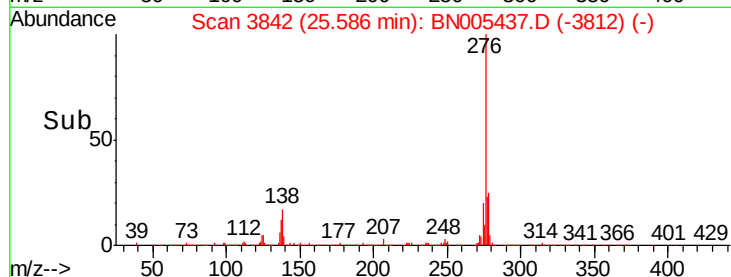
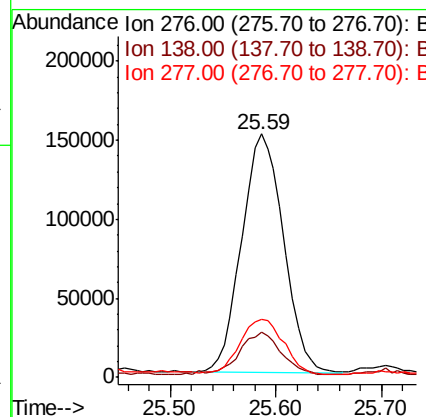
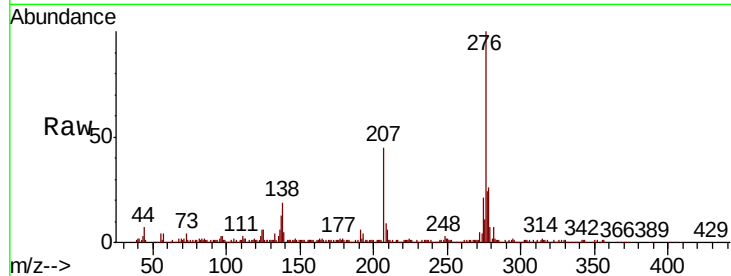
Indeno(1,2,3-cd)pyrene
Concen: 4.018 ng/ul
RT: 25.59 min Scan# 3842
Delta R.T. -0.02 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Instrument :
BNA_N
ClientSampleId :
GAJ68

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.5	17.9	26.9
277	24.0	19.7	29.5

Manual Integrations
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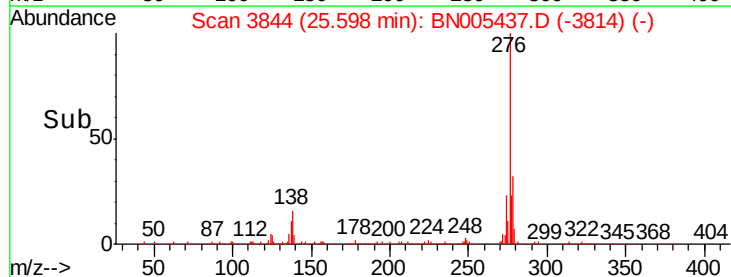
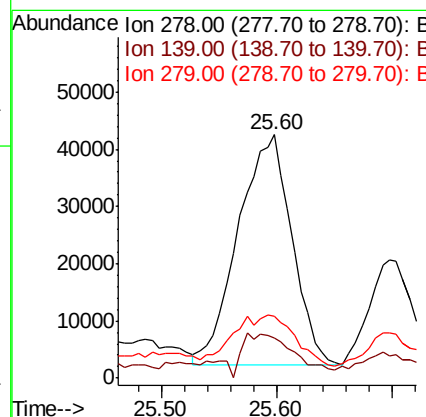
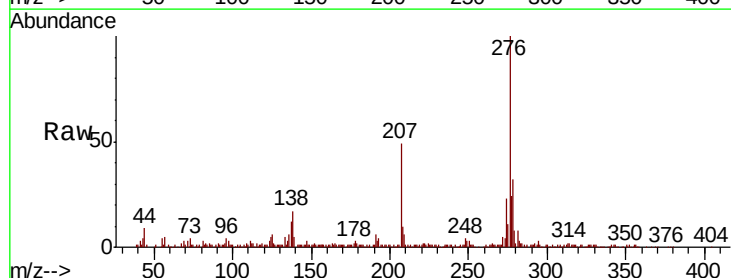
Sohil
5/3/2019 4:57:33 PM

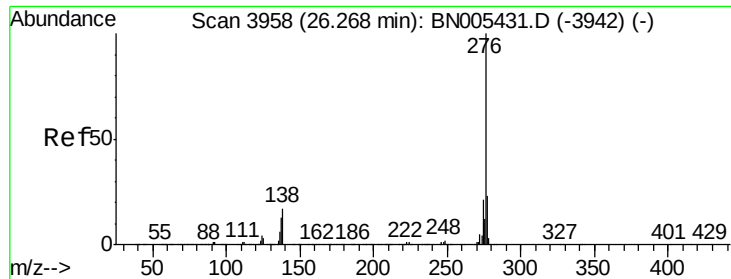


#92

Dibenzo(a,h)anthracene
Concen: 1.469 ng/ul
RT: 25.60 min Scan# 3844
Delta R.T. -0.02 min
Lab File: BN005437.D
Acq: 03 May 2019 04:13

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.1	19.7
279	25.5	19.4	29.0





#93

Benzo(a,h,i)perylene

Concen: 4.998 ng/ul

RT: 26.25 min Scan# 3955

Delta R.T. -0.03 min

Lab File: BN005437.D

Acq: 03 May 2019 04:13

Instrument :

BNA_N

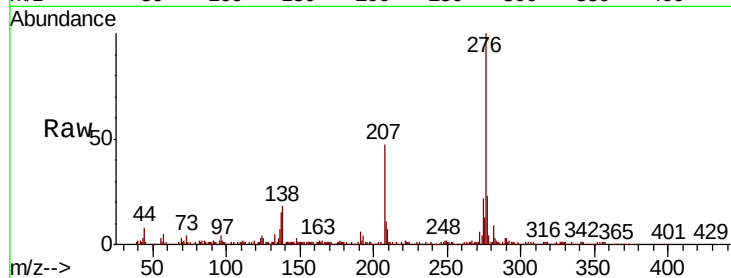
ClientSampleId :

GAJ68

Tot Ion:	276	Resp:	428191
Ion Ratio	Lower	Upper	
276	100		
138	18.3	16.7	25.1
277	23.4	18.2	27.2

Manual Integrations
APPROVED

Sohil
5/3/2019 4:57:33 PM



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

