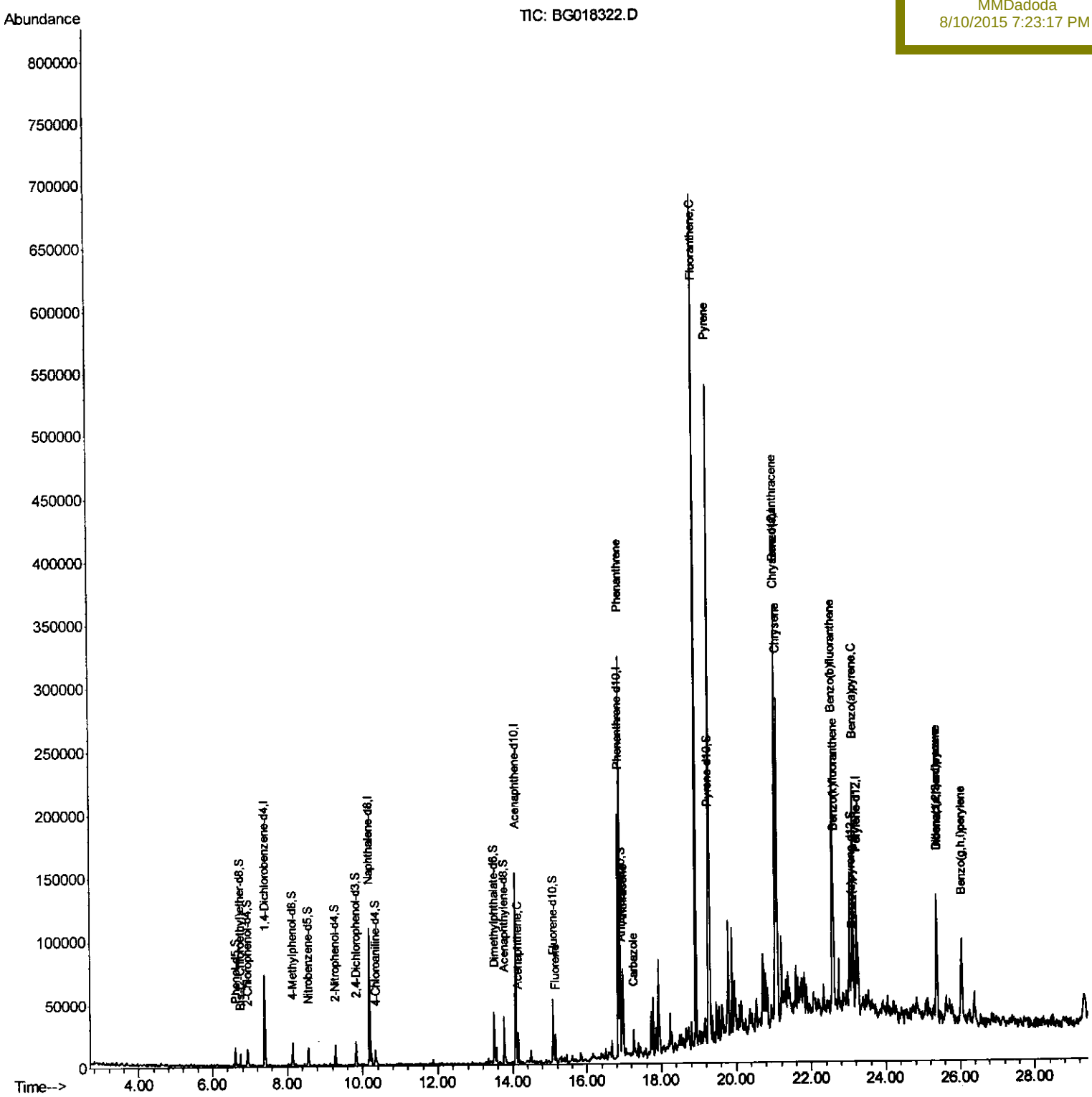
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:58:40 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM

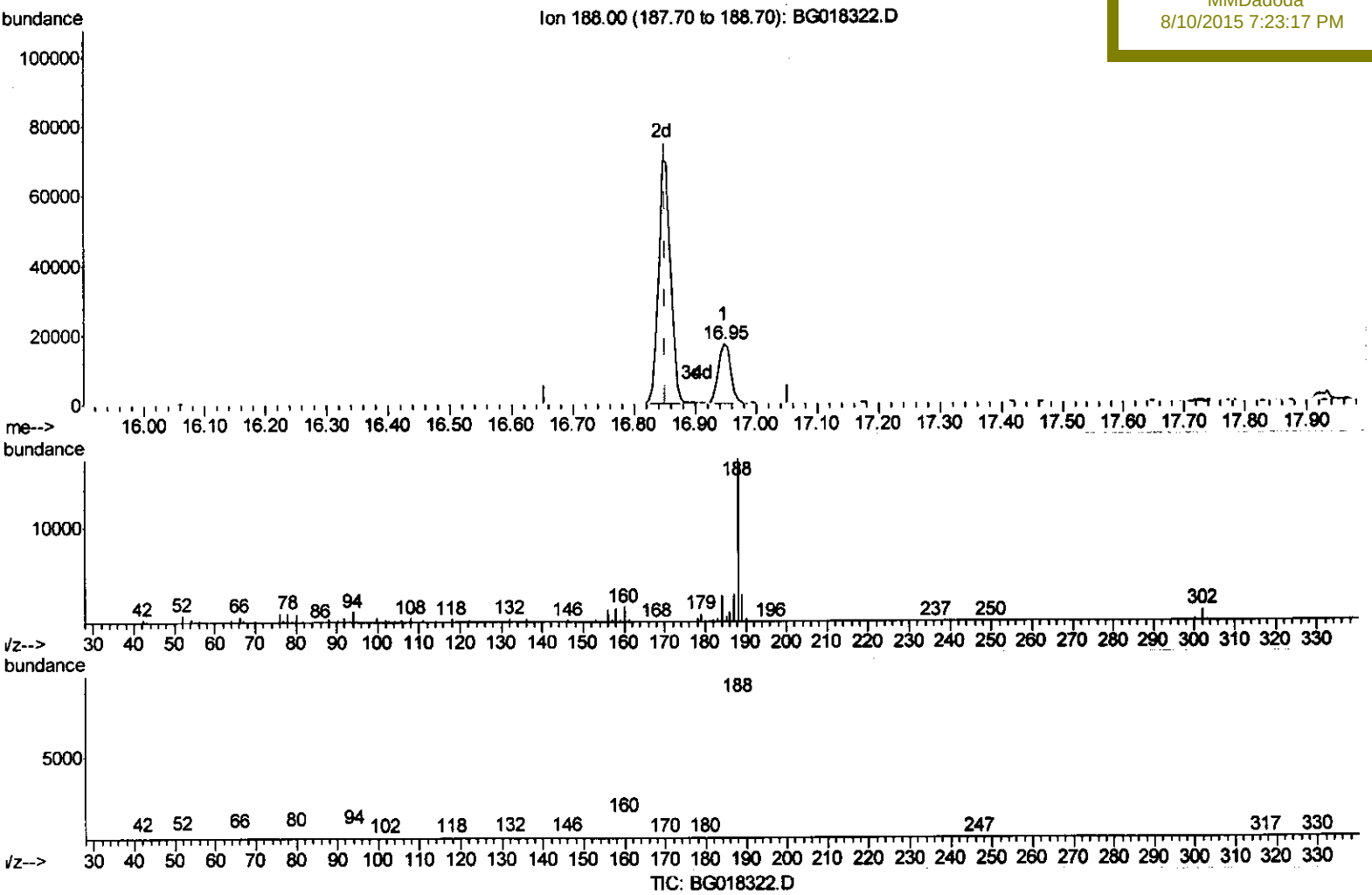


Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:52:25 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(62) Phenanthrene-d10 (I)

16.947min (+0.094) 20.00ng/ul

response 24672

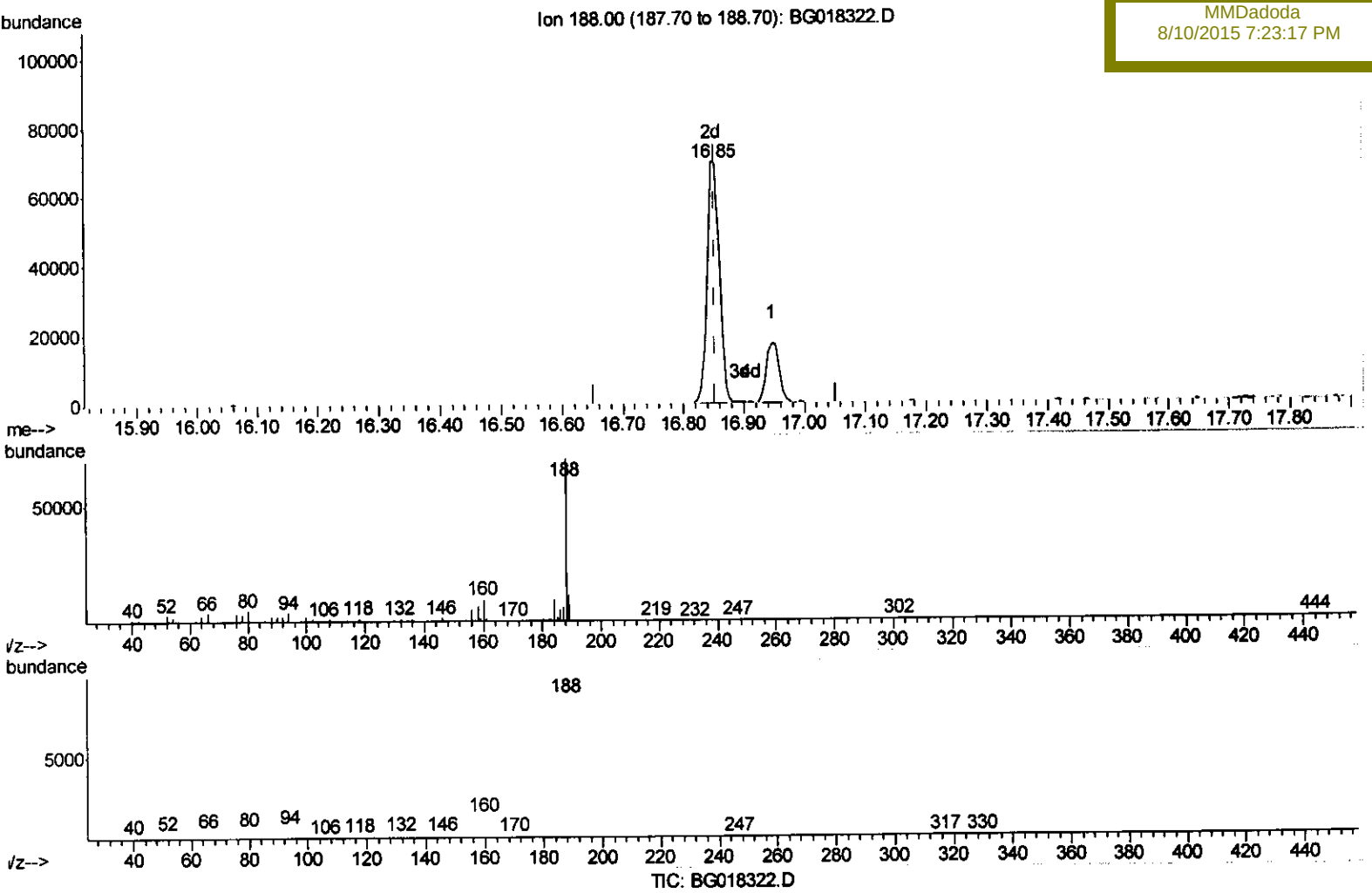
Ion	Exp%	Act%
188.00	100	100
94.00	6.70	7.59
80.00	5.50	5.97
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:52:25 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(62) Phenanthrene-d10 (I)

16.847min (-0.006) 20.00ng/ul m

U.M 08/11/15

response 96608

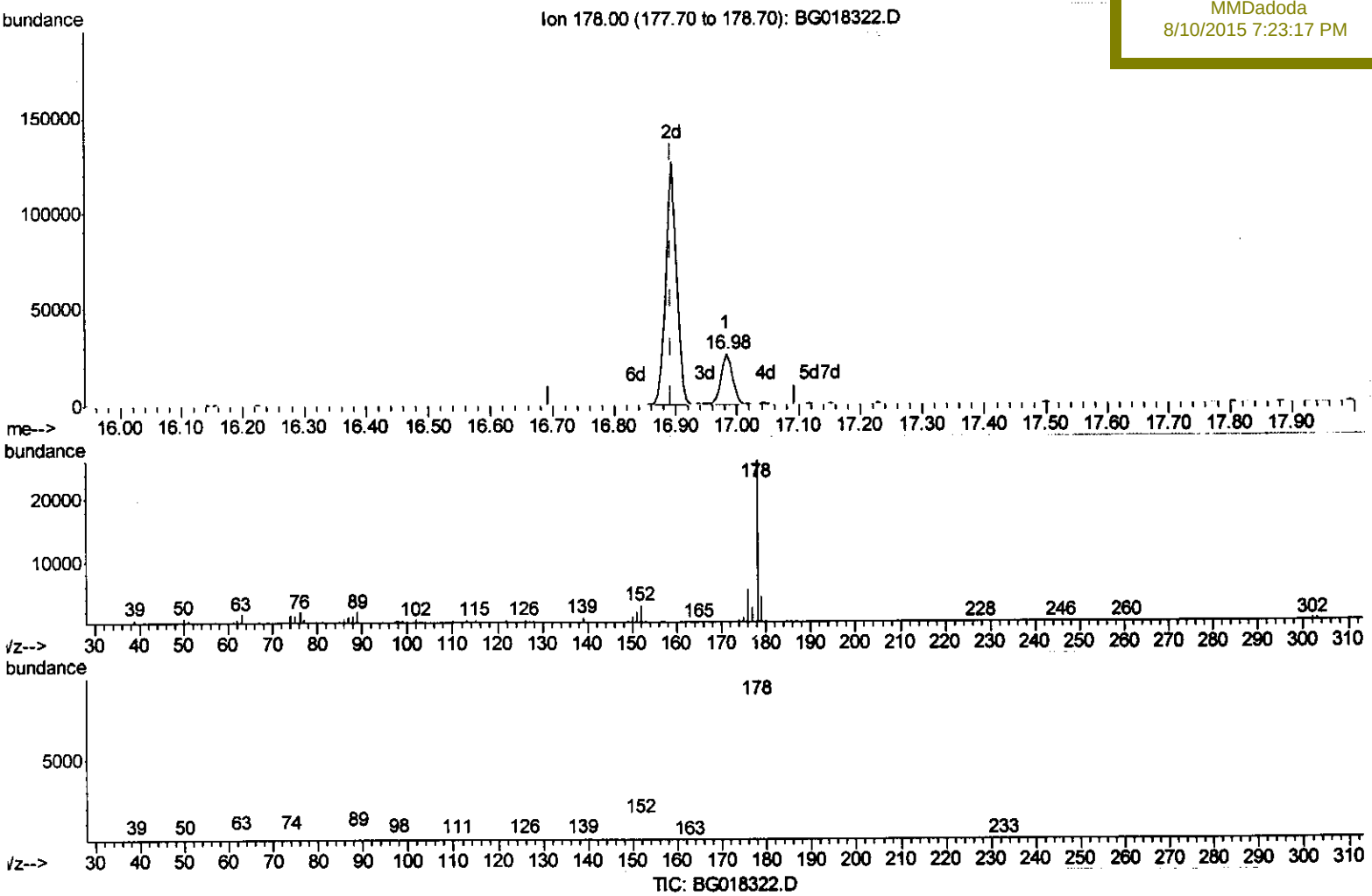
Ion	Exp%	Act%
188.00	100	100
94.00	6.70	5.67
80.00	5.50	6.86#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:53:53 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(70) Phenanthrene

16.983min (+0.088) 5.63ng/ul

response 34023

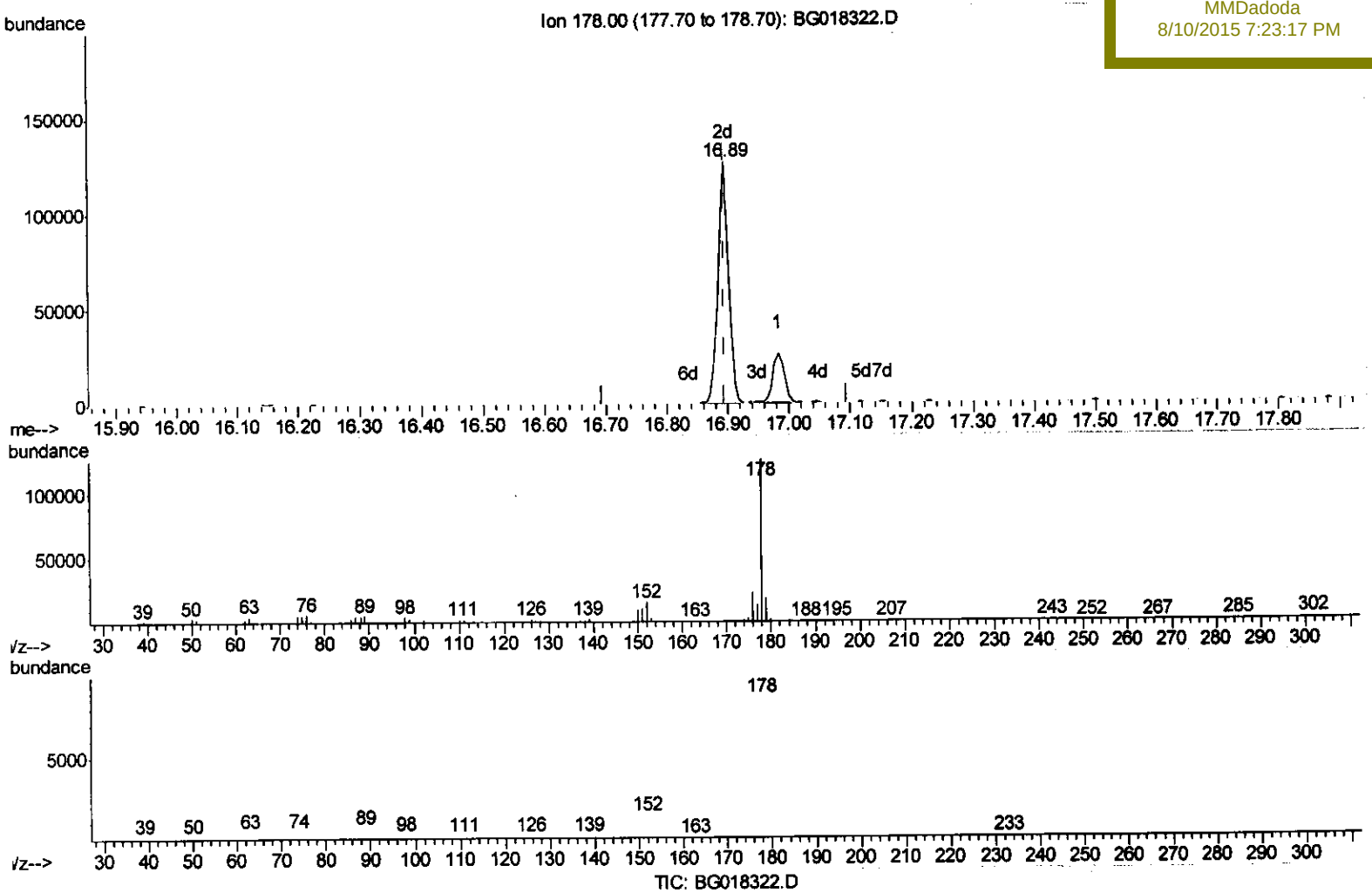
Ion	Exp%	Act%
178.00	100	100
179.00	16.80	16.45
176.00	20.90	20.44
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:53:53 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(70) Phenanthrene

16.894min (+0.000) 25.35ng/ul m } U.M 08/11/15

response 153178

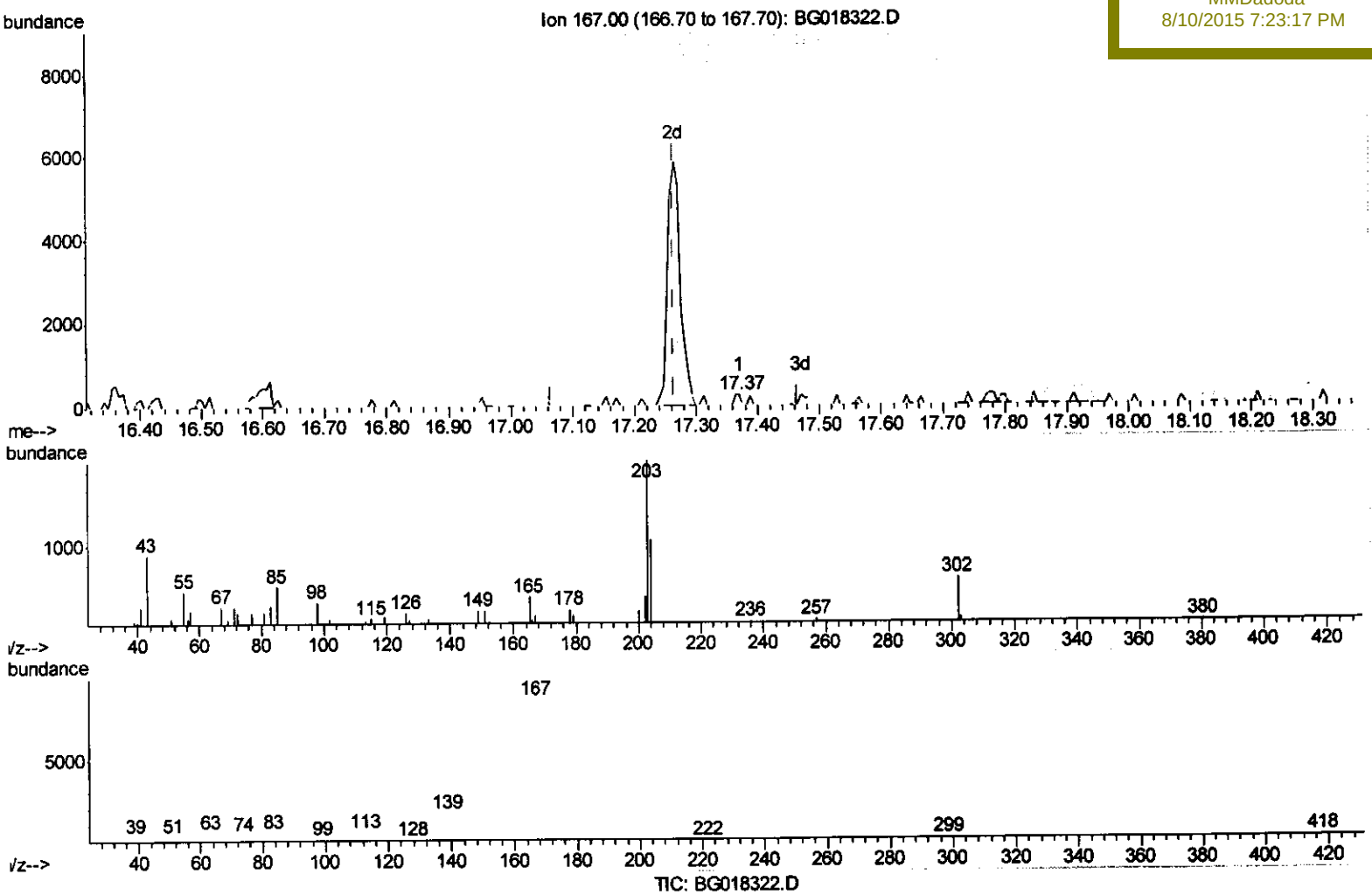
Ion	Exp%	Act%
178.00	100	100
179.00	16.80	14.64
176.00	20.90	17.90
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:53:53 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(75) Carbazole

17.370min (+0.106) 0.04ng/ul

response 168

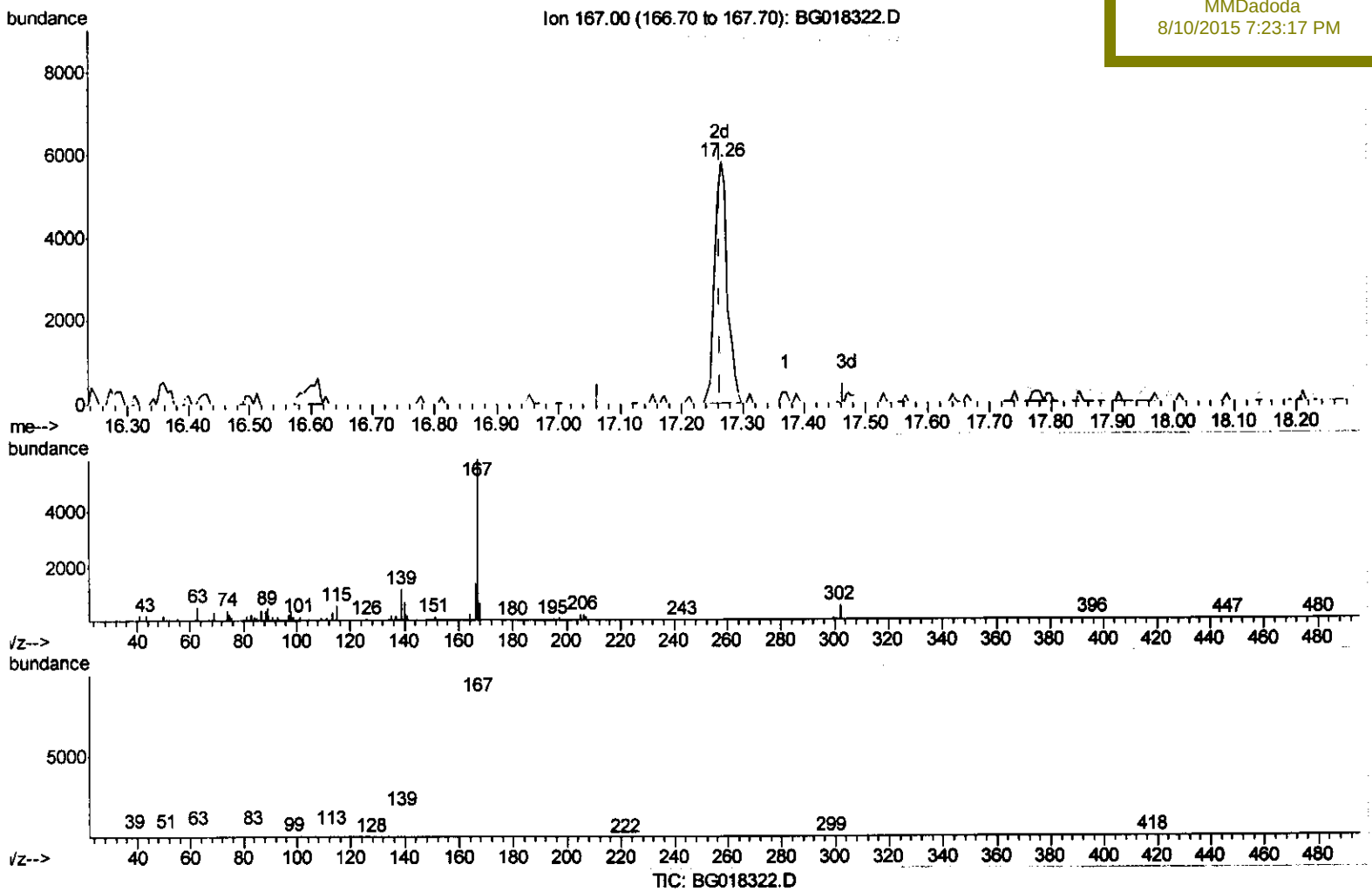
Ion	Exp%	Act%
167.00	100	100
166.00	20.60	78.66#
139.00	16.80	0.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:53:53 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(75) Carbazole

17.265min (+0.000) 1.78ng/ul m

response 8381

U.M 08/11/15

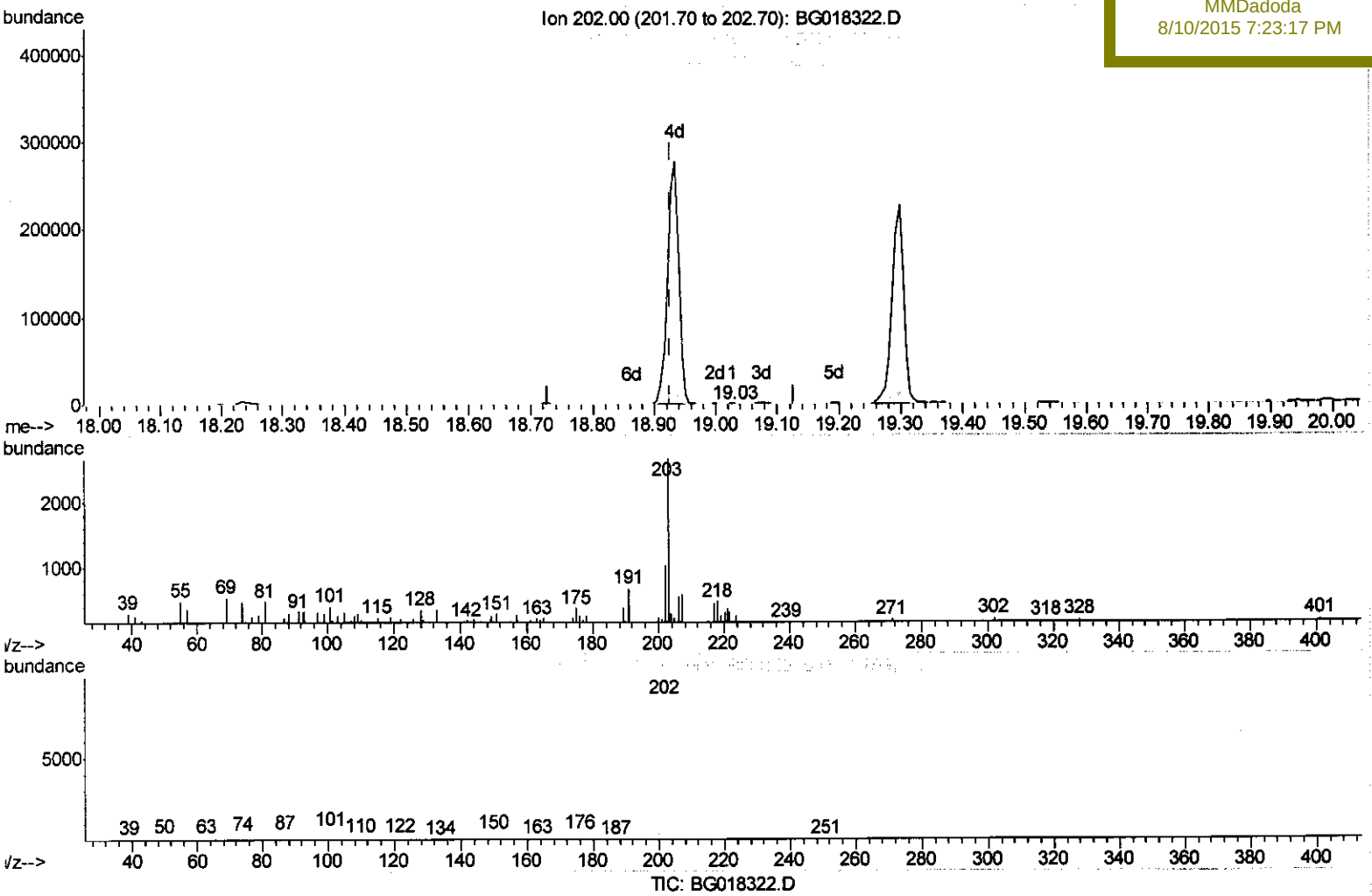
Ion	Exp%	Act%
167.00	100	100
166.00	20.60	24.30
139.00	16.80	21.32#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:53:53 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(77) Fluoranthene (C)

19.027min (+0.100) 0.12ng/ul

response 777

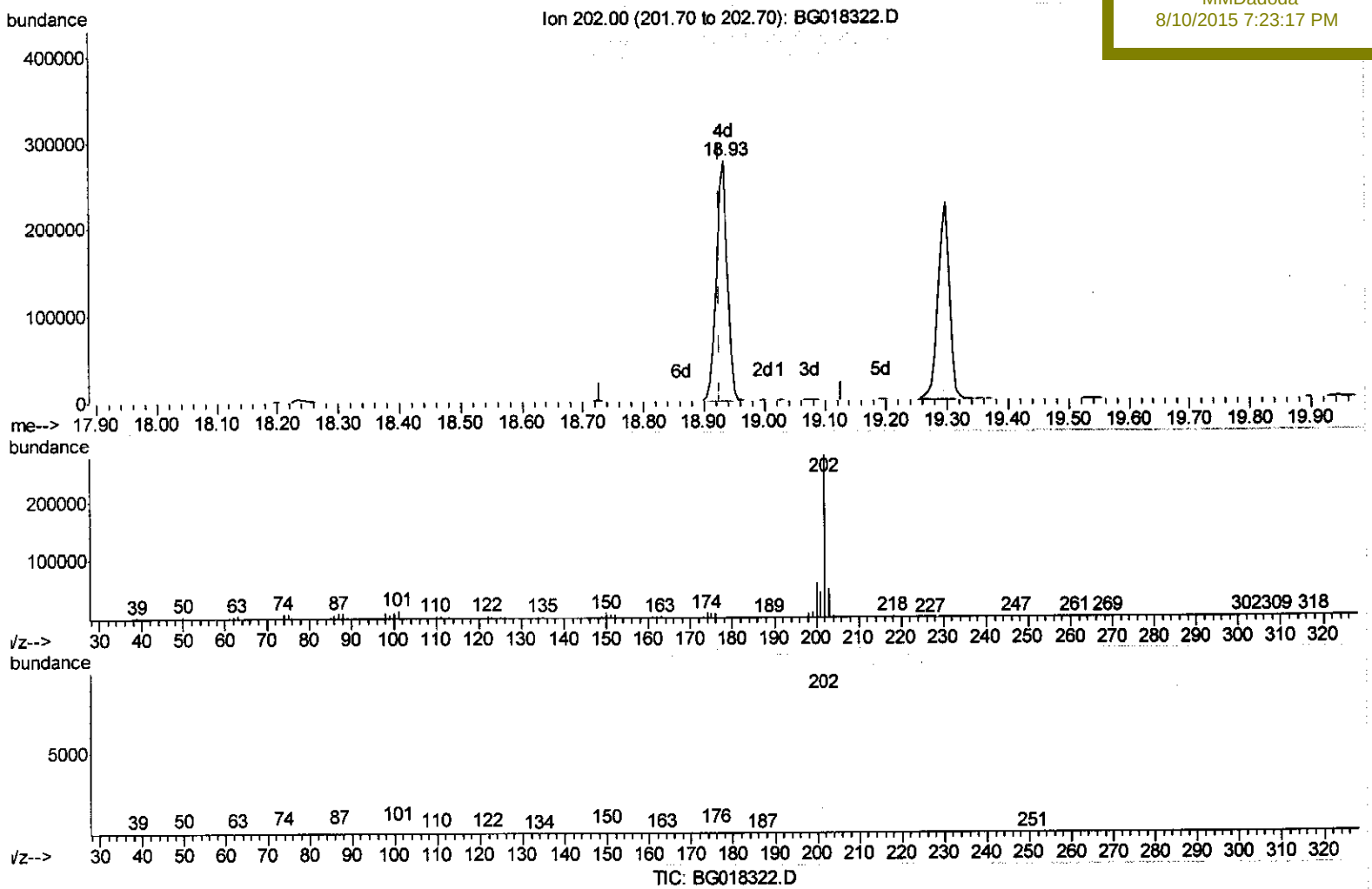
Ion	Exp%	Act%
202.00	100	100
101.00	5.60	56.00#
100.00	4.90	0.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:53:53 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(77) Fluoranthene (C)

18.933min (+0.006) 52.85ng/ul m

response 348192

U.M 08/11/15

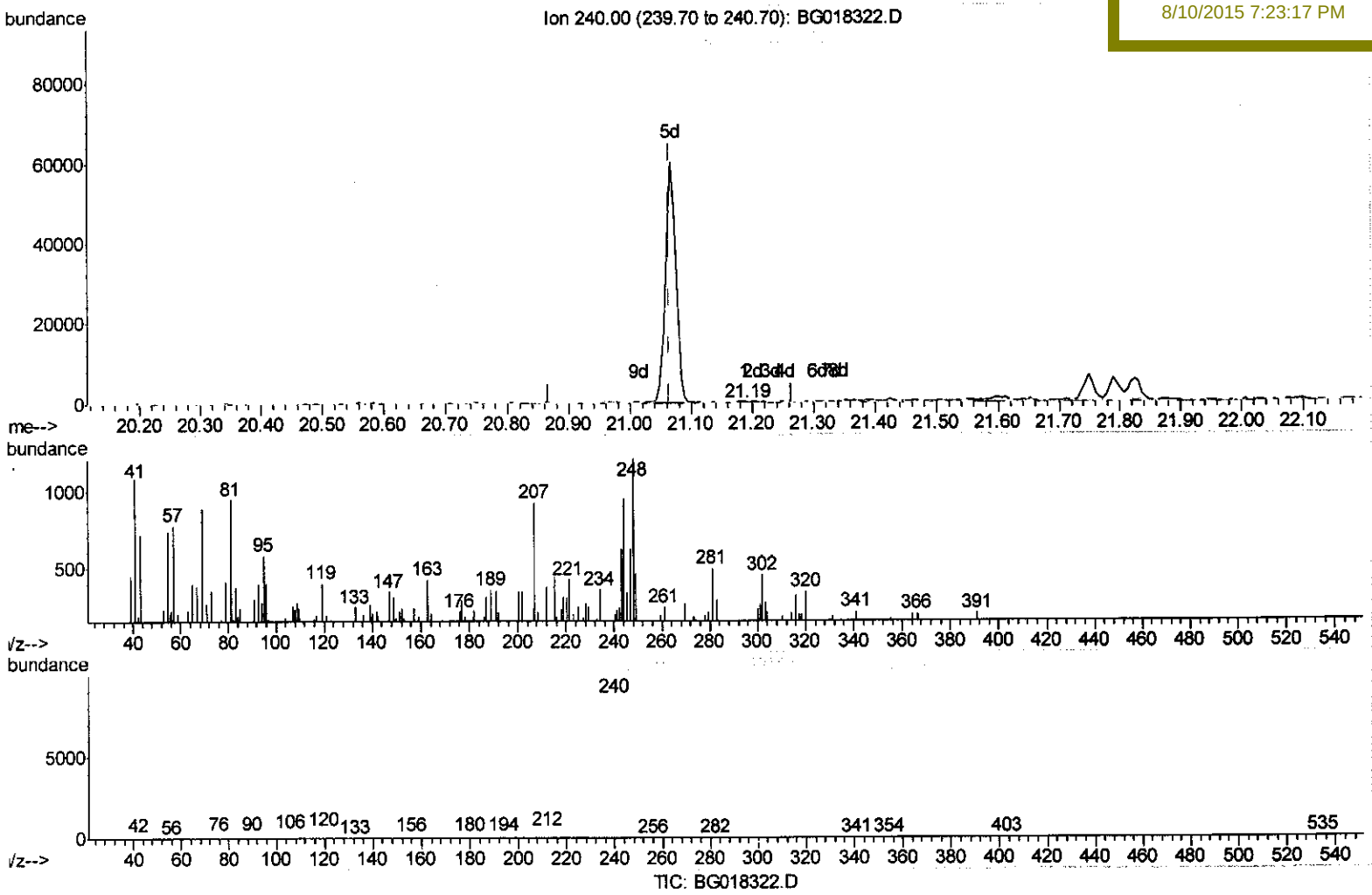
Ion	Exp%	Act%
202.00	100	100
101.00	5.60	5.00
100.00	4.90	3.60#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:53:53 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(78) Chrysene-d12 (I)

21.189min (+0.124) 20.00ng/ul

response 183

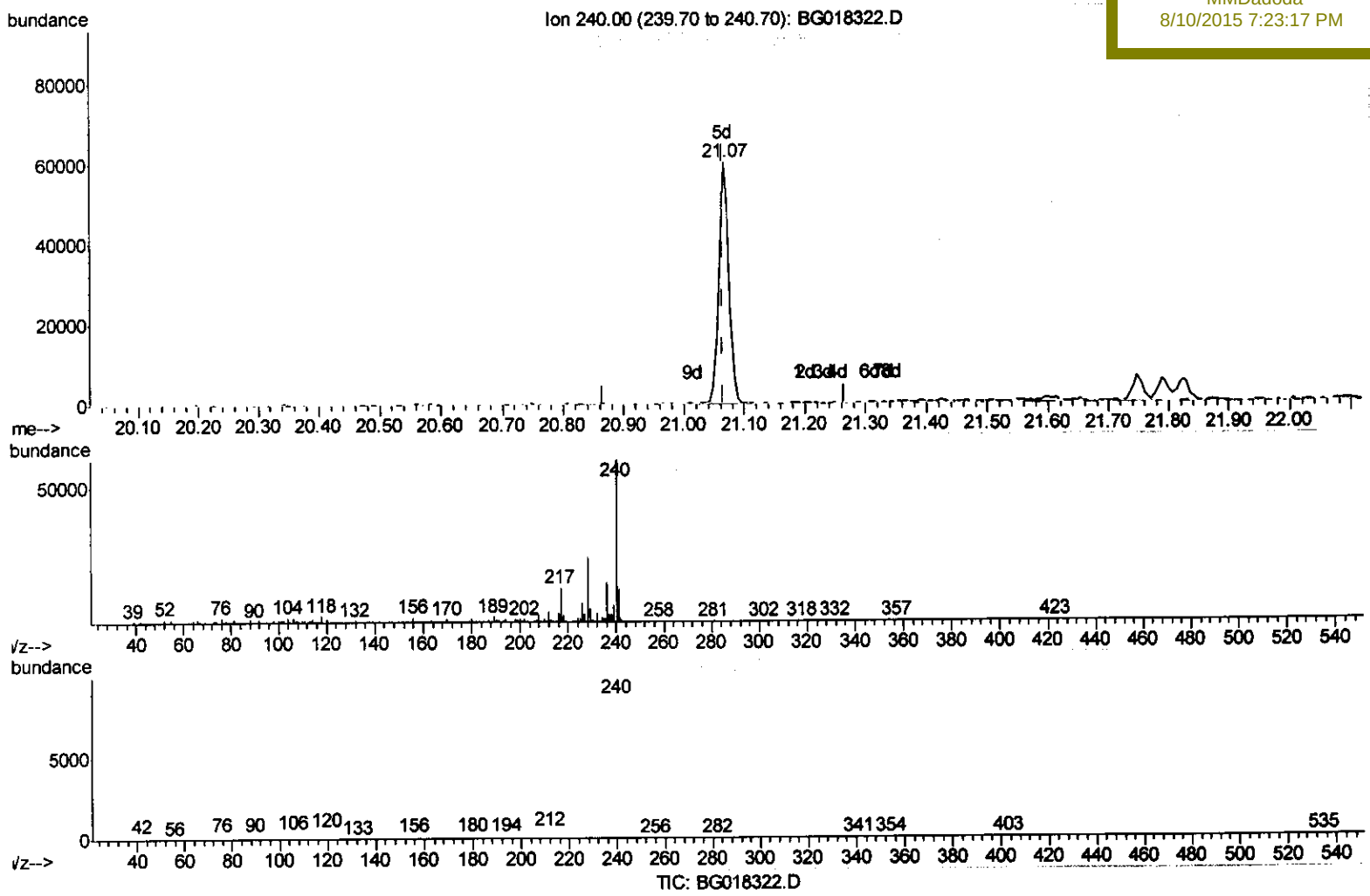
Ion	Exp%	Act%
240.00	100	100
120.00	5.30	0.00#
236.00	25.60	0.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:53:53 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(78) Chrysene-d12 (I)

21.066min (+0.000) 20.00ng/ul m > U.M 06/11/15

response 71495

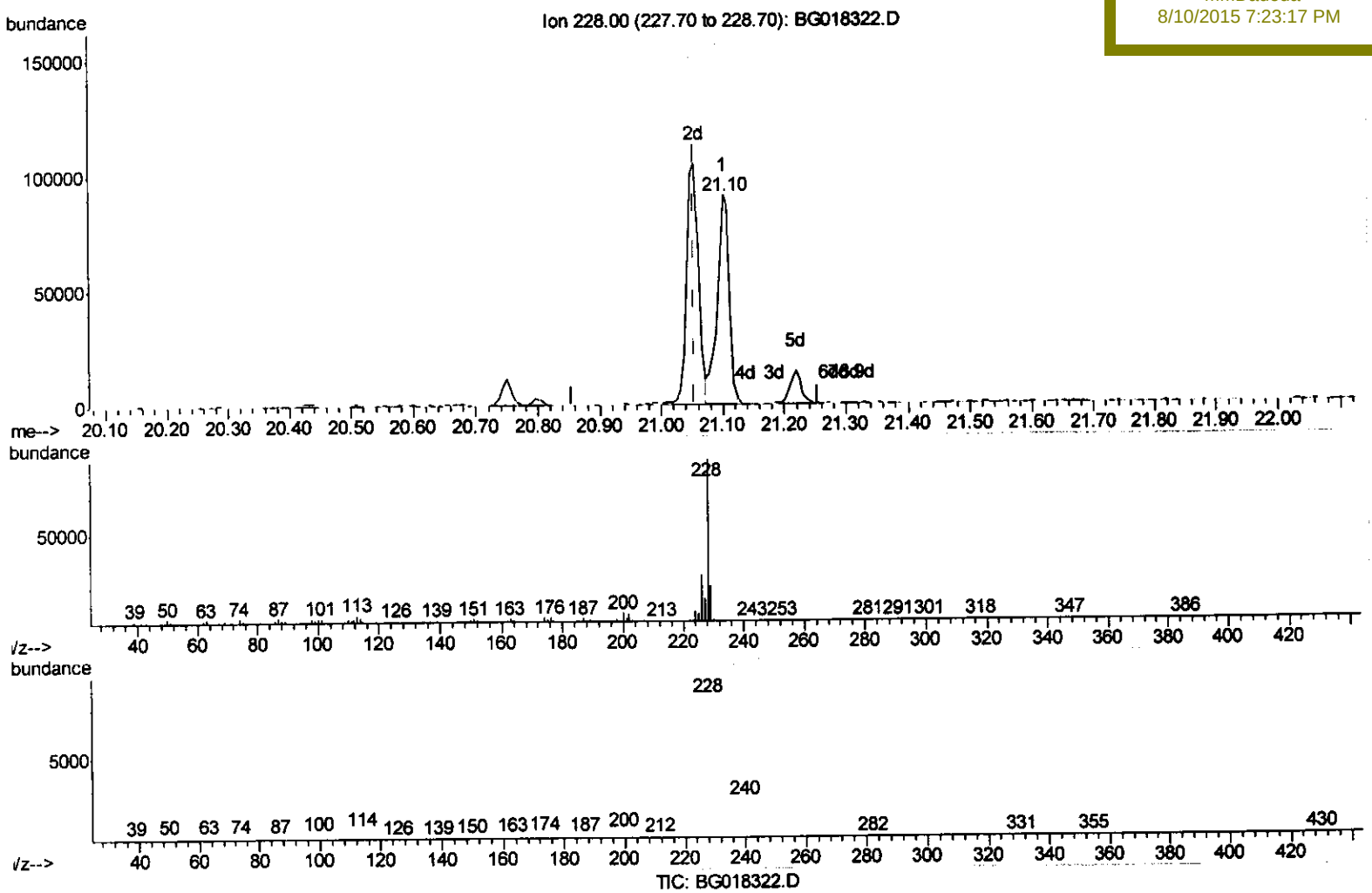
Ion	Exp%	Act%
240.00	100	100
120.00	5.30	2.43#
236.00	25.60	24.31
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:55:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(83) Benzo(a)anthracene

21.101min (+0.047) 25.17ng/ul

response 122468

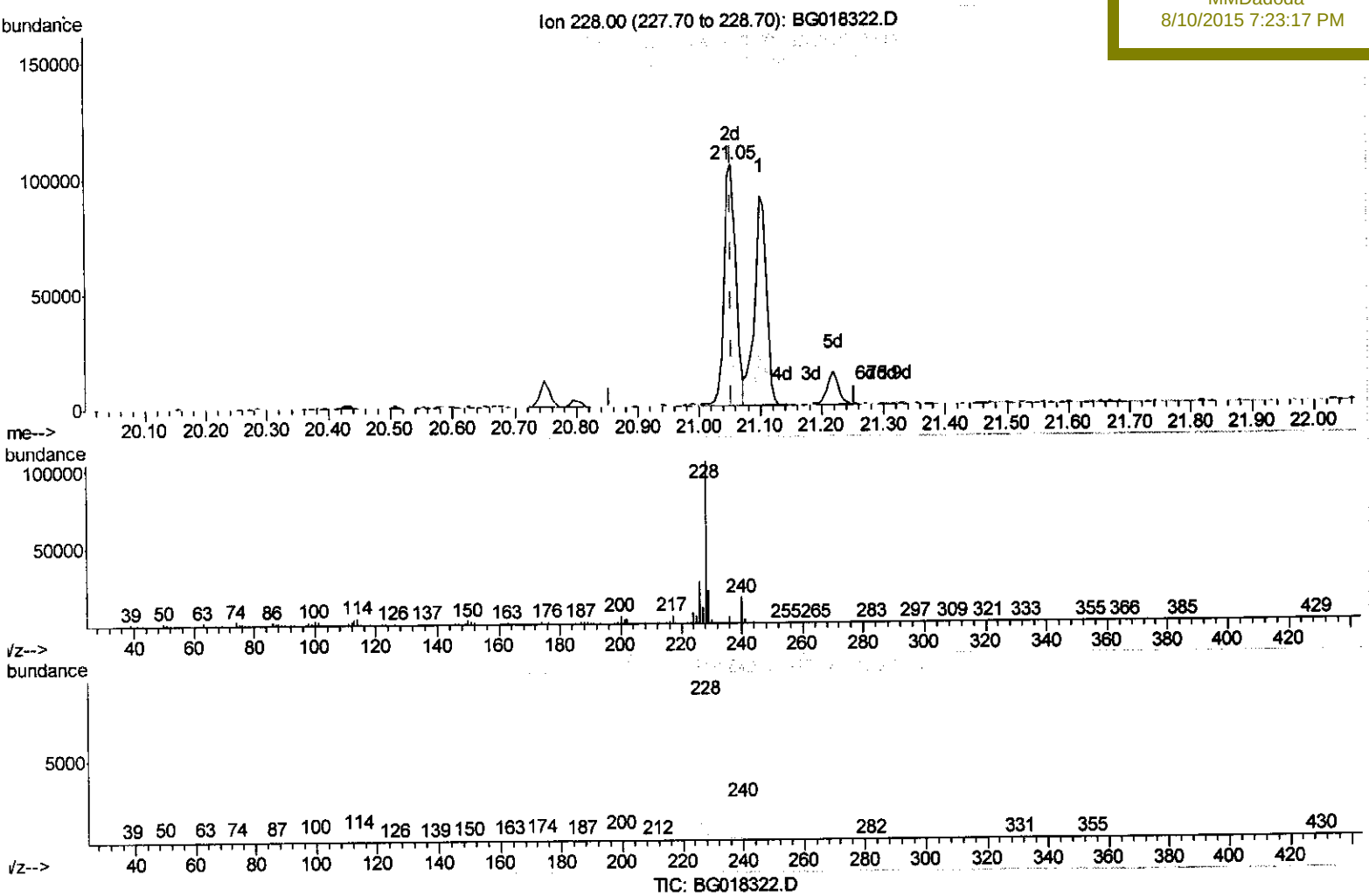
Ion	Exp%	Act%
228.00	100	100
229.00	19.30	22.18
226.00	26.10	28.77
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:55:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(83) Benzo(a)anthracene

21.054min (+0.000) 29.01ng/ul m

response 141179

U.M
08/11/15

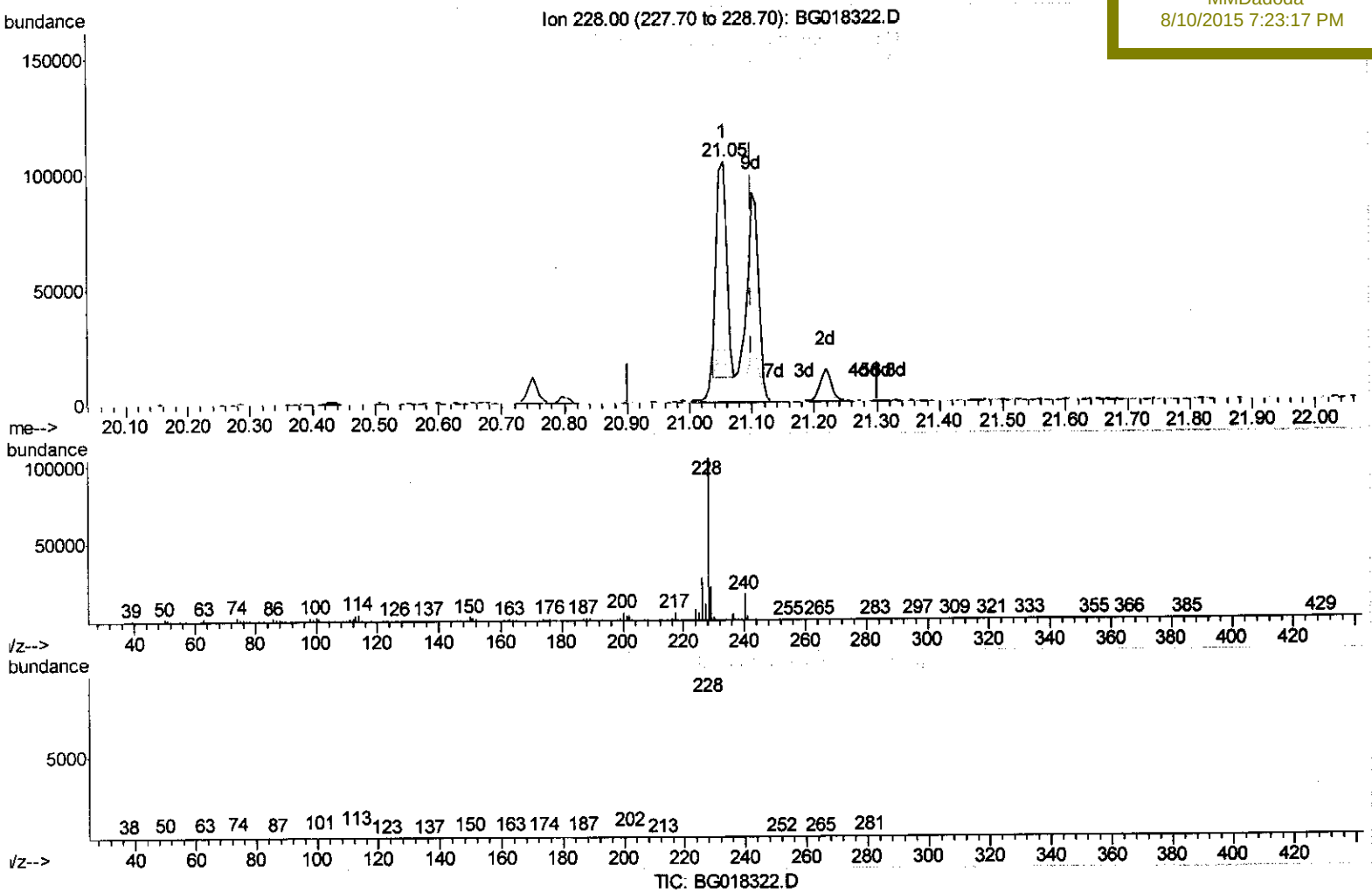
Ion	Exp%	Act%
228.00	100	100
229.00	19.30	20.43
226.00	26.10	26.42
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:55:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(85) Chrysene

21.054min (-0.047) 23.65ng/ul

response 106470

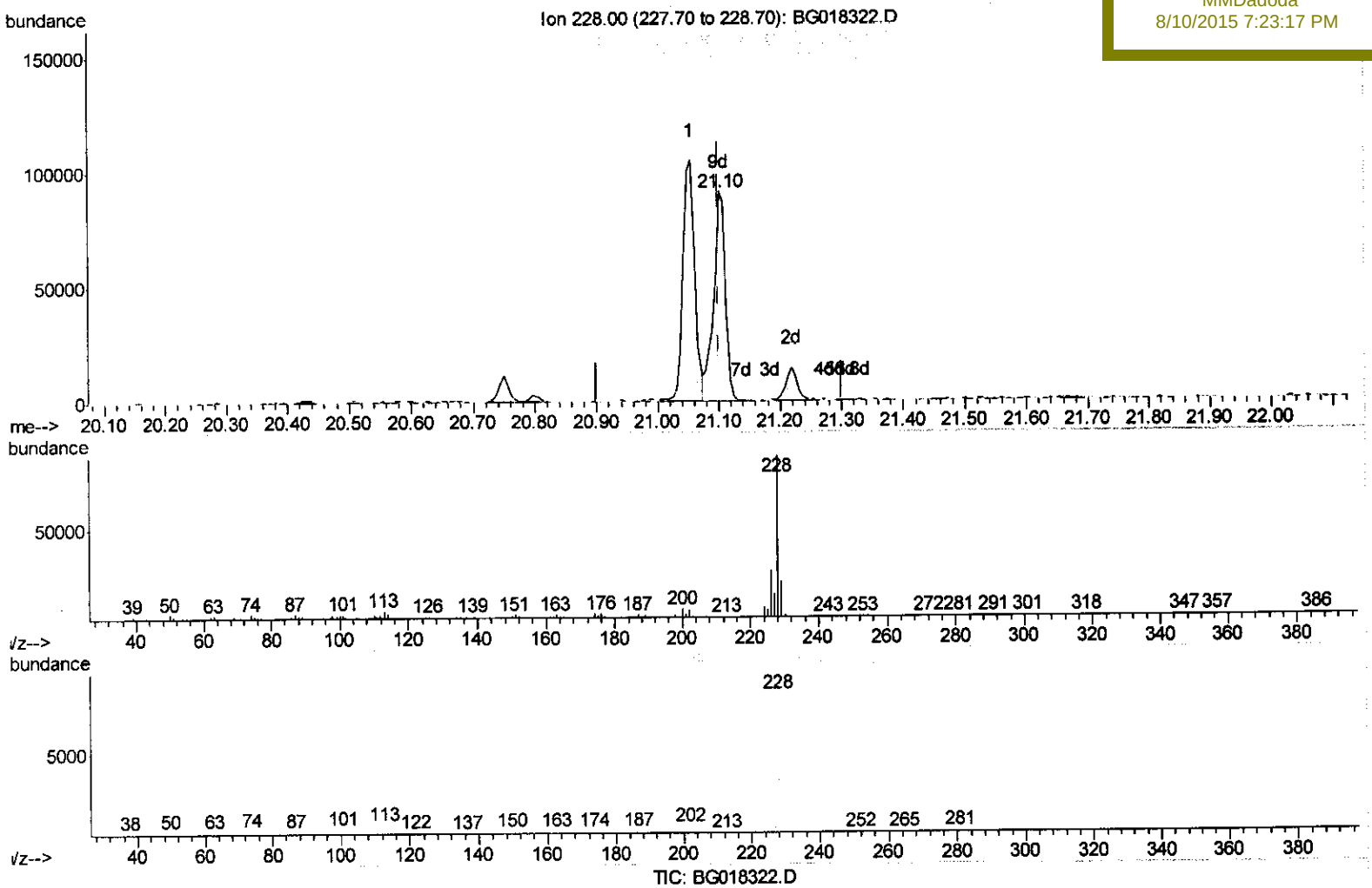
Ion	Exp%	Act%
228.00	100	100
226.00	28.20	26.42
229.00	17.70	20.43
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:55:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(85) Chrysene

21.101min (+0.000) 27.40ng/ul m

response 123372

U.M 08/11/15

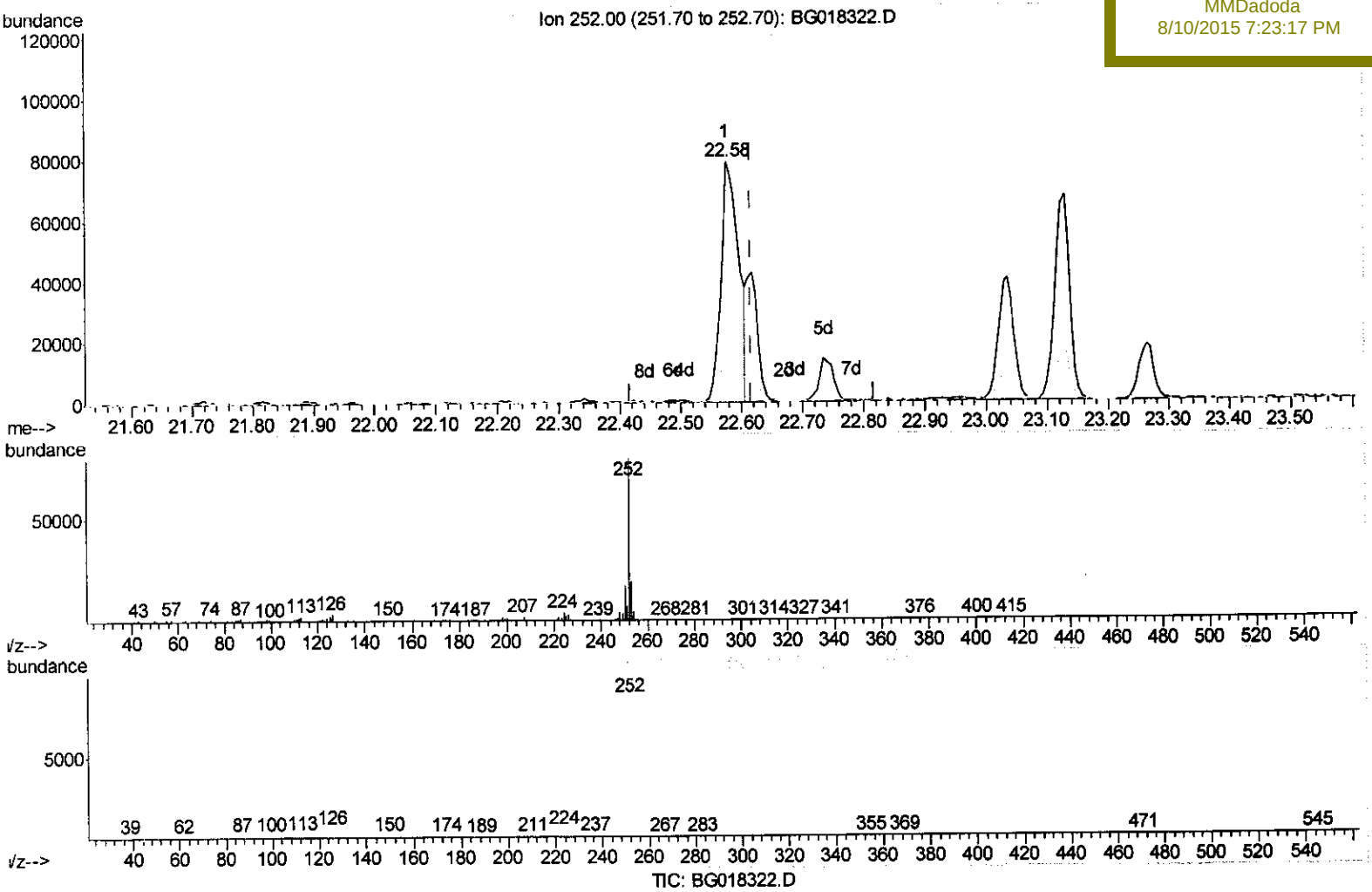
Ion	Exp%	Act%
228.00	100	100
226.00	28.20	28.77
229.00	17.70	22.18#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:55:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(89) Benzo(k)fluoranthene

22.576min (-0.041) 36.99ng/ul

response 163117

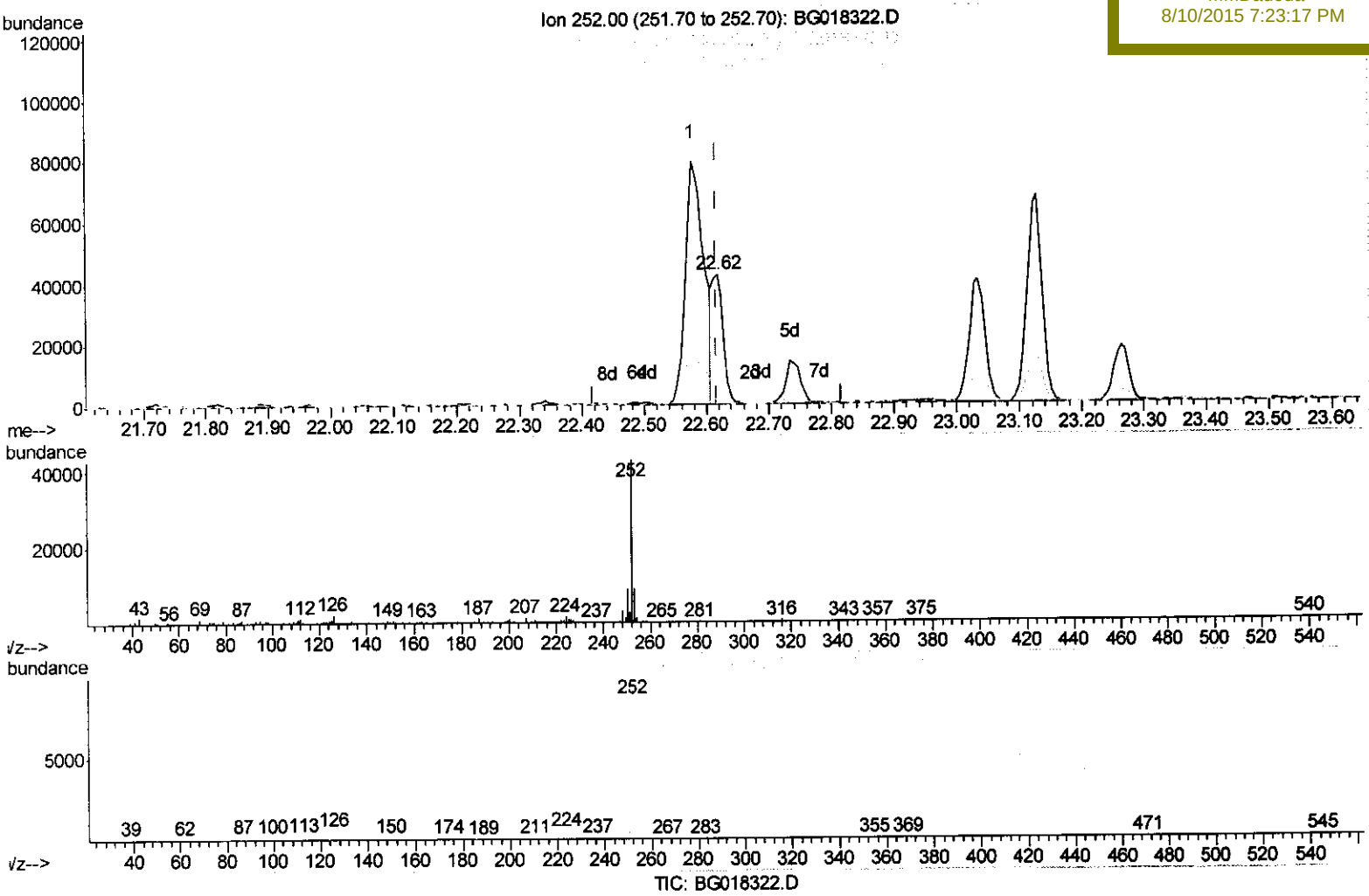
Ion	Exp%	Act%
252.00	100	100
253.00	21.70	24.06
125.00	4.10	2.77#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:55:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM



(89) Benzo(k)fluoranthene

22.617min (+0.000) 11.69ng/ul m

response 51544

U.M 08/11/15

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	21.05
125.00	4.10	2.35#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080815\
Data File : BG018322.D
Acq On : 8 Aug 2015 9:35
Operator : UM/TP
Sample : G3095-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Aug 10 04:58:40 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080815.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 01:57:33 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C01S4DL

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:23:17 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	15051	20.00	ng/ul	0.00
18) Naphthalene-d8	10.18	136	69312	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.09	164	47486	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.85	188	96608m	20.00	ng/ul	0.00
78) Chrysene-d12	21.07	240	71495m	20.00	ng/ul	0.00
86) Perylene-d12	23.22	264	60927	20.00	ng/ul	0.00

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System Monitoring Compounds						
3) 1,4-Dioxane-d8	0.00	96	0d	0.00	ng/uL	
5) Phenol-d5	6.61	99	6887	4.92	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.75	67	3625	4.51	ng/ul	0.00
9) 2-Chlorophenol-d4	6.94	132	5254	4.56	ng/ul	0.00
13) 4-Methylphenol-d8	8.15	113	5620	4.70	ng/ul	0.00
19) Nitrobenzene-d5	8.56	128	2982	4.74	ng/ul	0.00
22) 2-Nitrophenol-d4	9.28	143	2873	3.95	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.83	165	4796	3.58	ng/ul	0.00
29) 4-Chloroaniline-d4	10.34	131	4754	3.20	ng/ul	0.00
44) Dimethylphthalate-d6	13.51	166	20924	4.37	ng/ul	0.00
47) Acenaphthylene-d8	13.77	160	22261	4.21	ng/ul	0.00
52) 4-Nitrophenol-d4	0.00	143	0d	0.00	ng/ul	
58) Fluorene-d10	15.10	176	17954	4.28	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
71) Anthracene-d10	16.95	188	24672	4.73	ng/ul	0.00
79) Pyrene-d10	19.26	212	21412	5.18	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.08	264	16777	4.26	ng/ul	0.00

Target Compounds						Qvalue
50) Acenaphthene	14.15	153	7730	2.17	ng/ul	96
59) Fluorene	15.15	166	8096	1.78	ng/ul	89
70) Phenanthrene	16.89	178	153178m	25.35	ng/ul	
72) Anthracene	16.98	178	34330	5.65	ng/ul	96
75) Carbazole	17.26	167	8381m	1.78	ng/ul	
77) Fluoranthene	18.93	202	348192m	52.85	ng/ul	
80) Pyrene	19.30	202	297147	57.02	ng/ul	99
83) Benzo(a)anthracene	21.05	228	141179m	29.01	ng/ul	
85) Chrysene	21.10	228	123372m	27.40	ng/ul	
88) Benzo(b)fluoranthene	22.58	252	163117	35.34	ng/ul	93
89) Benzo(k)fluoranthene	22.62	252	51544m	11.69	ng/ul	
91) Benzo(a)pyrene	23.13	252	113177	27.23	ng/ul	93
92) Indeno(1,2,3-cd)pyrene	25.38	276	89600	17.65	ng/ul	96
93) Dibenzo(a,h)anthracene	25.38	278	22964	5.19	ng/ul#	93
94) Benzo(g,h,i)perylene	26.04	276	78571	19.00	ng/ul	93

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