

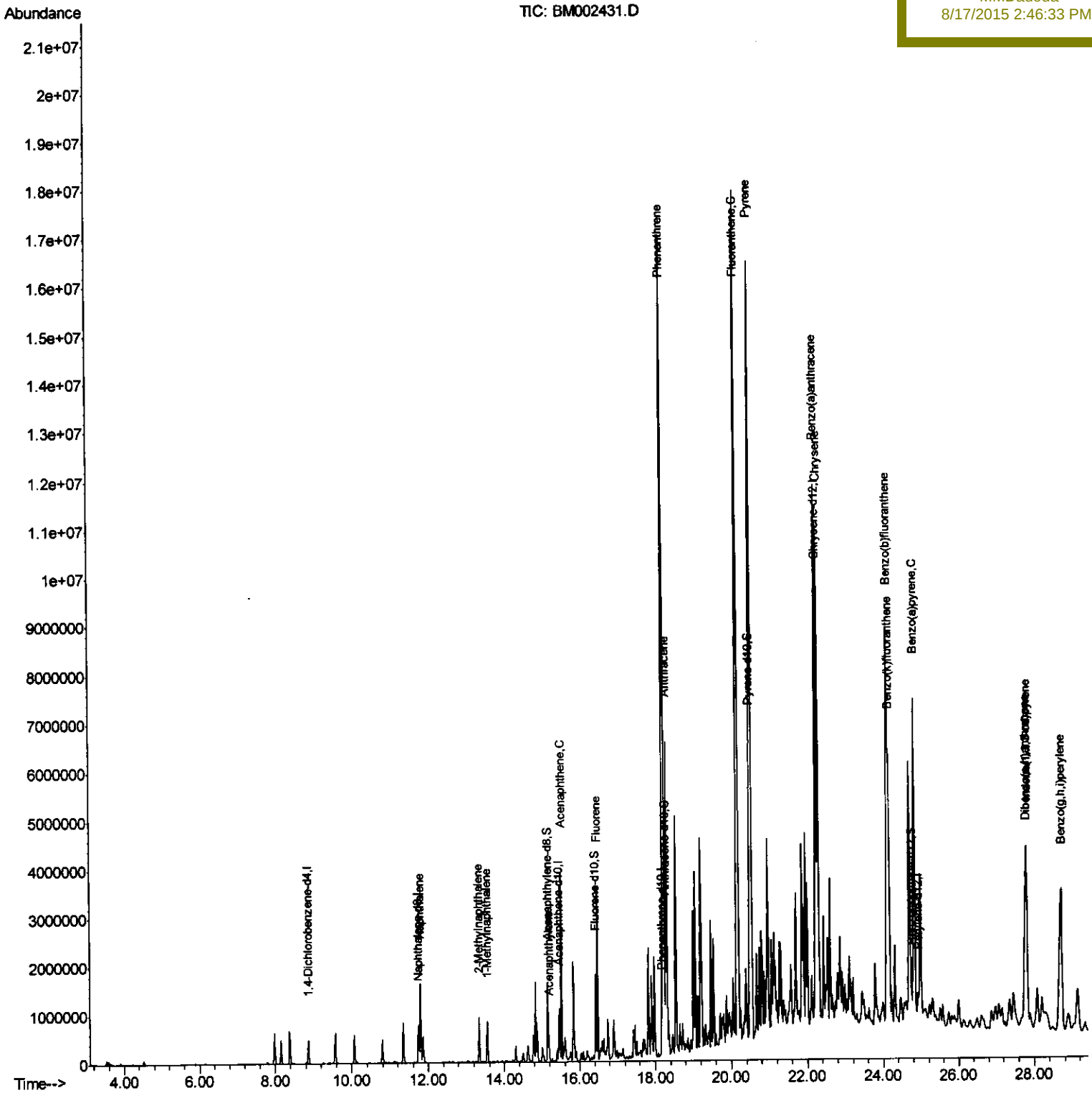
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002431.D
Acq On : 15 Aug 2015 19:01
Operator : UM/IZ
Sample : G3194-05
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:40:12 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 05:12:59 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampled :
D9D98

Manual Integrations
APPROVED

MMDadoda
8/17/2015 2:46:33 PM



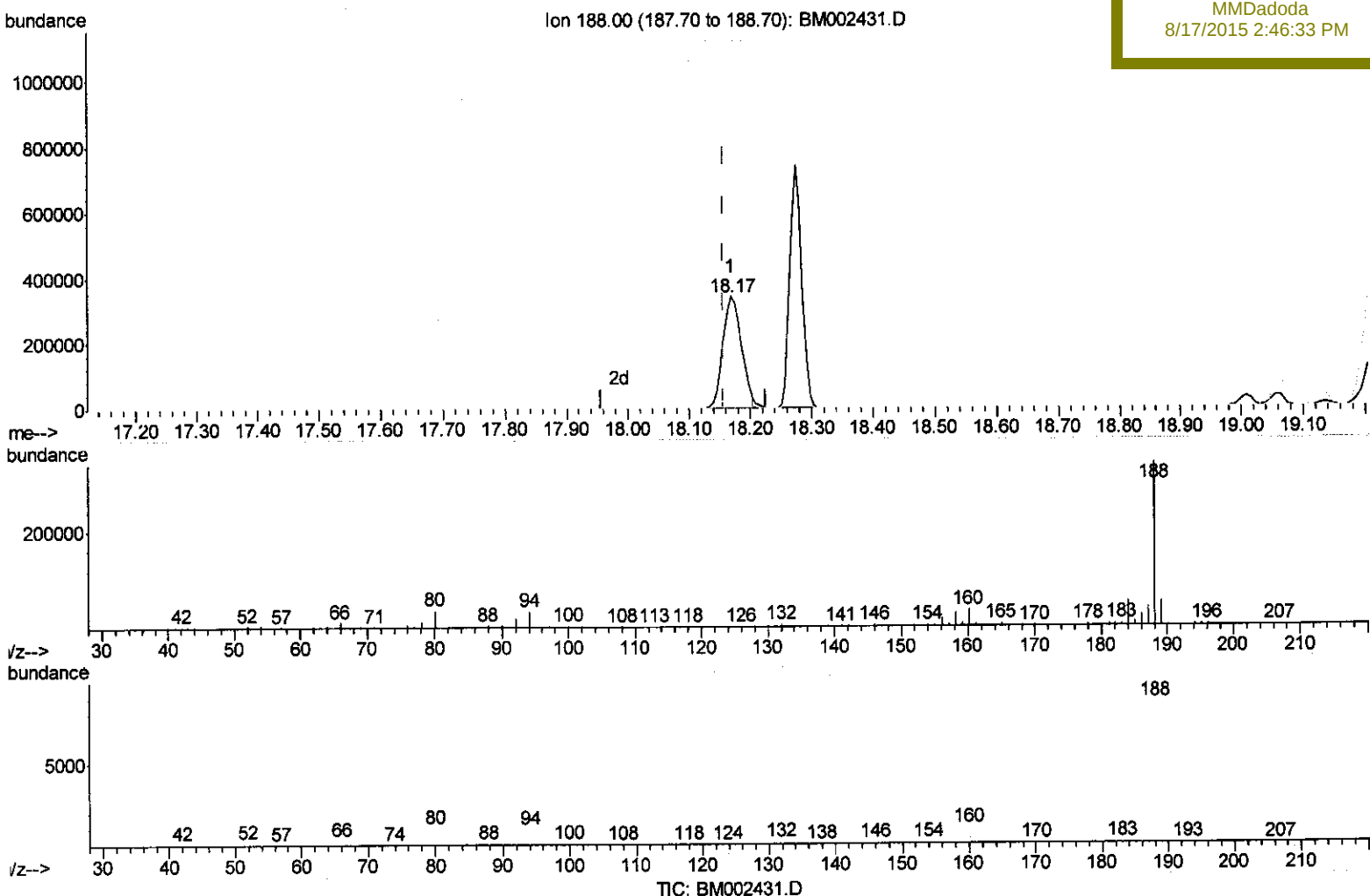
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:17:48 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 OLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(12) Phenanthrene-d10 (I)
 18.168min (+0.012) 20.00ng/ul
 response 722717

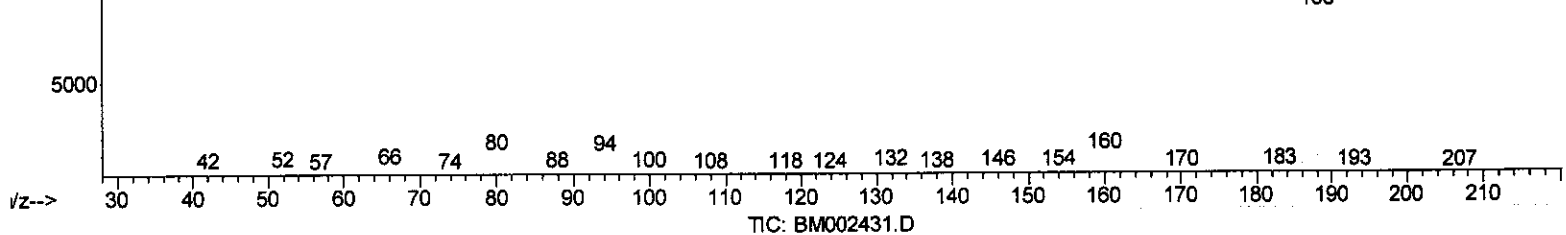
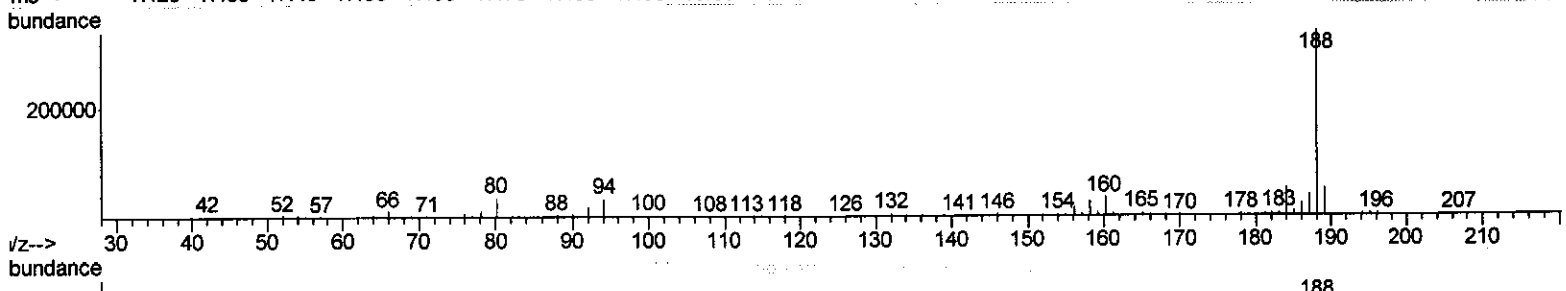
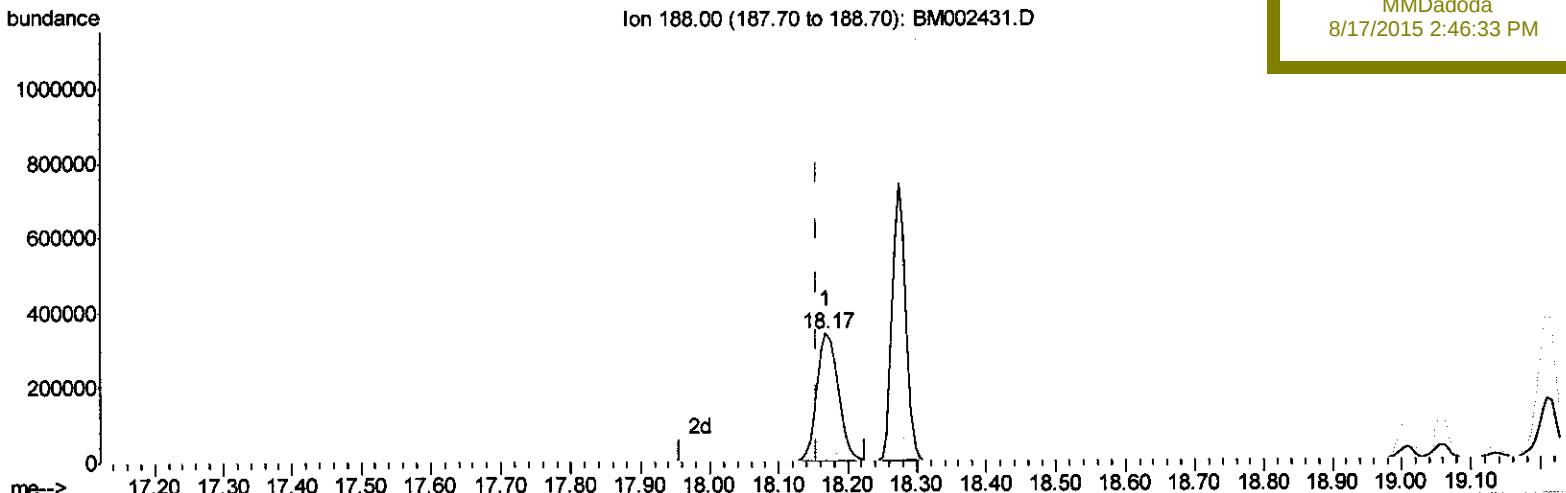
Ion	Exp%	Act%
188.00	100	100
94.00	10.00	9.87
80.00	10.70	10.60
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:17:48 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED
 MMDadoda
 8/17/2015 2:46:33 PM



(12) Phenanthrene-d10 (I)

18.168min (+0.012) 20.00ng/ul m > U.M.
 08/18/15

response 730804

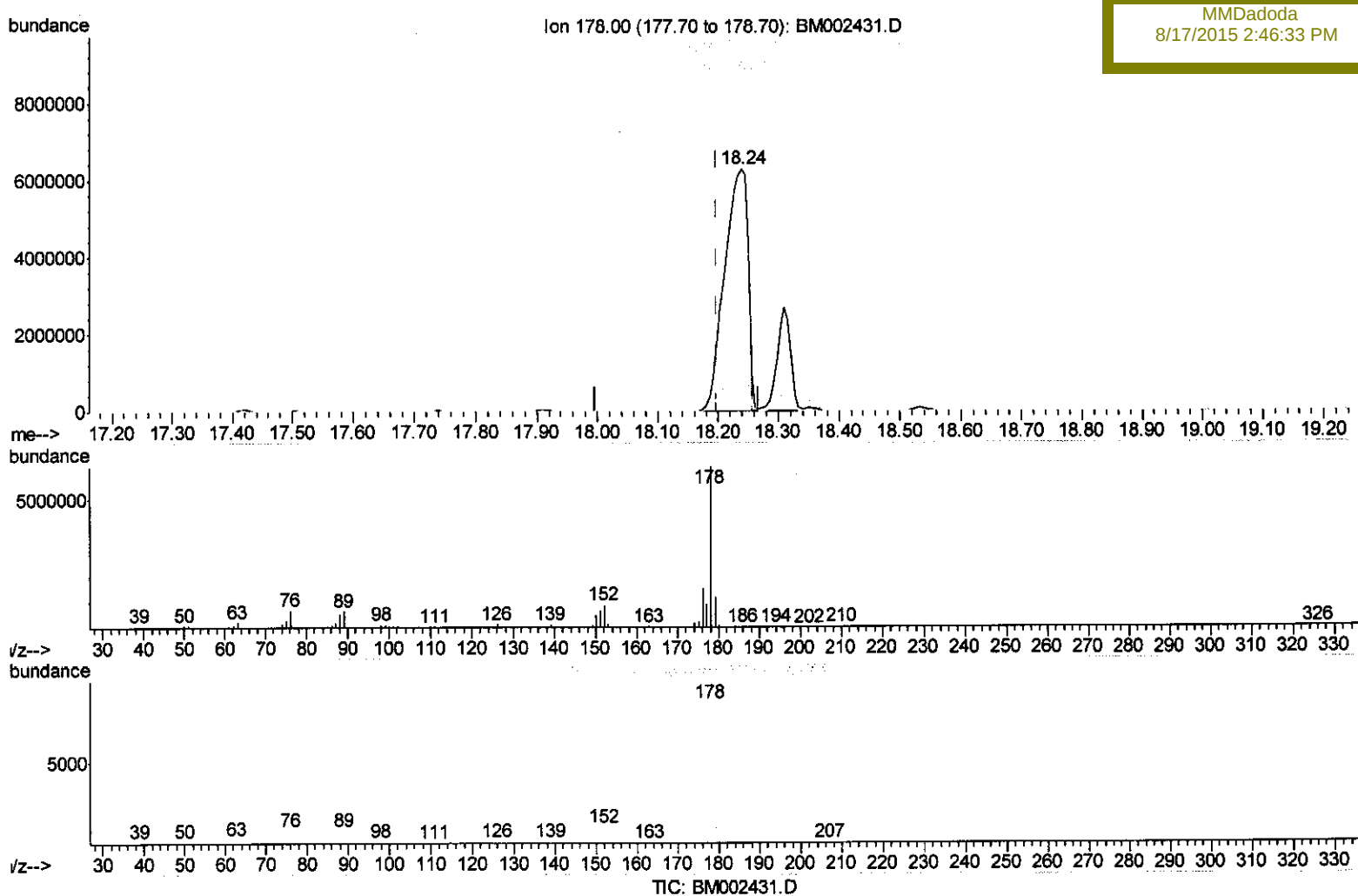
Ion	Exp%	Act%
188.00	100	100
94.00	10.00	9.87
80.00	10.70	10.60
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:32:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED
 MMDadoda
 8/17/2015 2:46:33 PM



(13) Phenanthrene

18.239min (+0.041) 403.71ng/ul

response 17036676

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	18.94#
176.00	18.90	23.88#
0.00	0.00	0.00

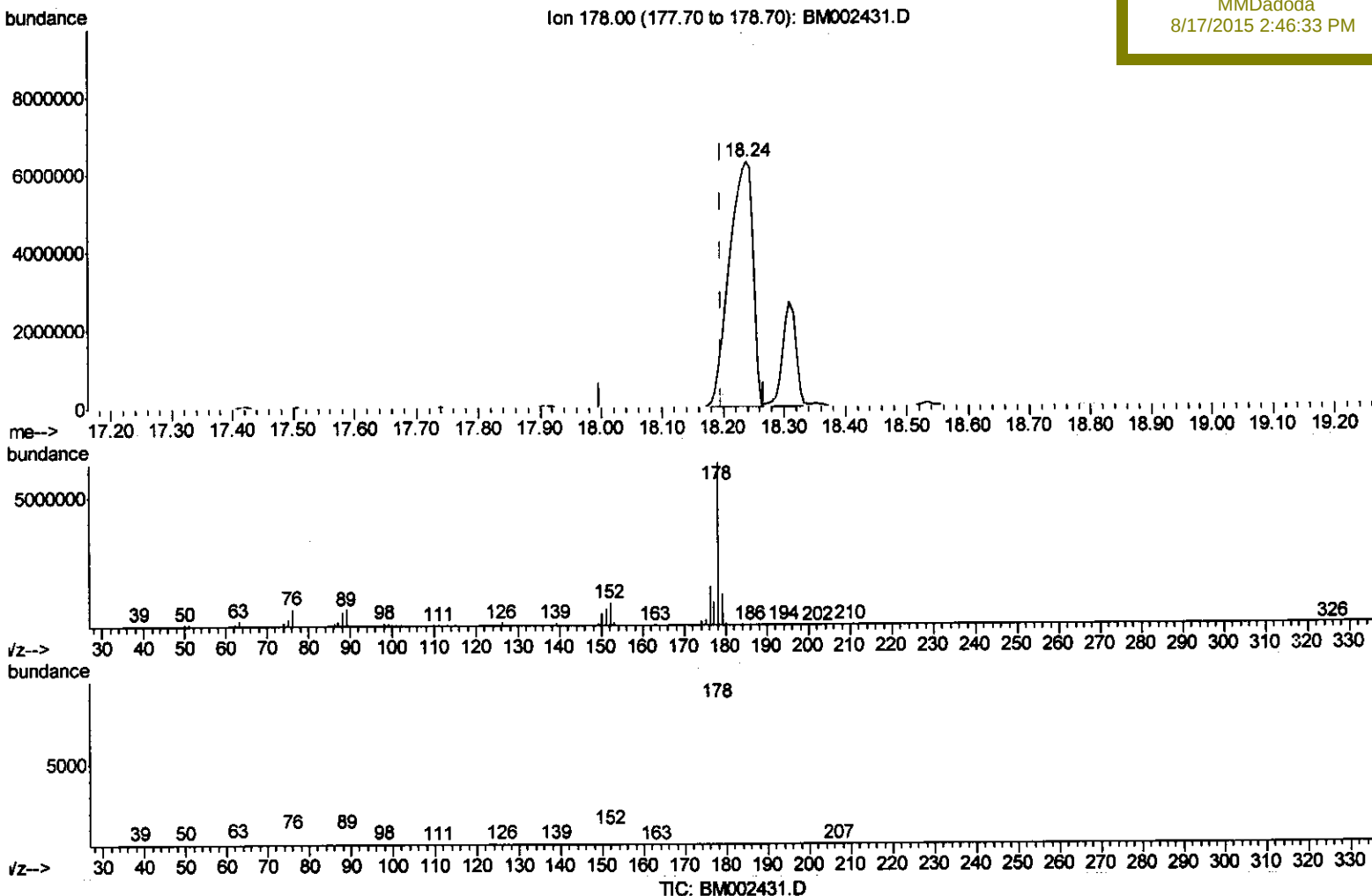
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:32:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(13) Phenanthrene

18.239min (+0.041) 404.77ng/ul m

response 17081132

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	18.94#
176.00	18.90	23.88#
0.00	0.00	0.00

> U.M.
 08/18/15

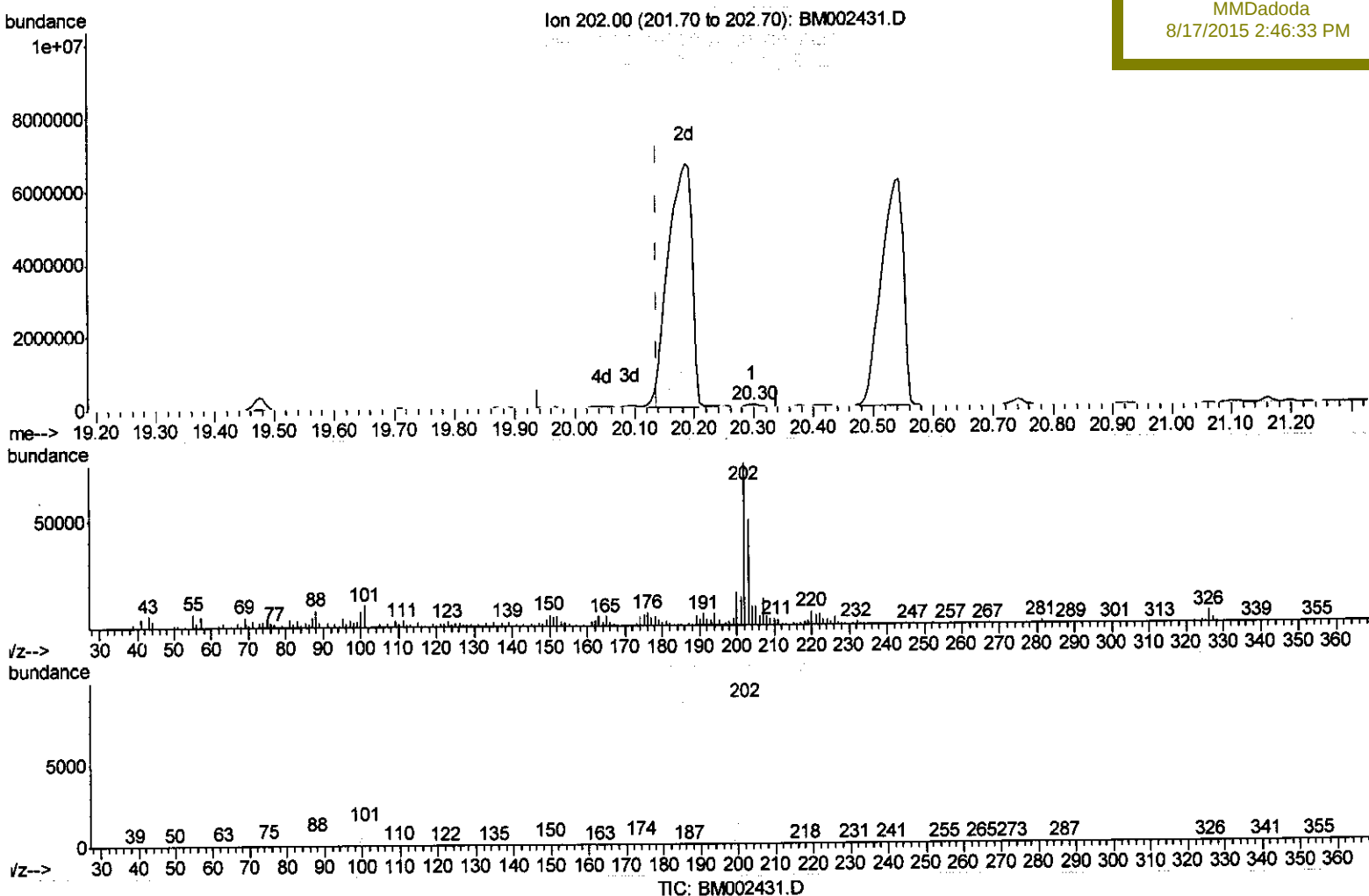
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002431.D
Acq On : 15 Aug 2015 19:01
Operator : UM/IZ
Sample : G3194-05
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:32:23 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 05:12:59 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9D98

Manual Integrations
APPROVED

MMDadoda
8/17/2015 2:46:33 PM



(16) Fluoranthene (C)

20.297min (+0.159) 2.04ng/ul

response 97334

Ion	Exp%	Act%
202.00	100	100
101.00	12.10	13.80
100.00	9.30	9.75
0.00	0.00	0.00

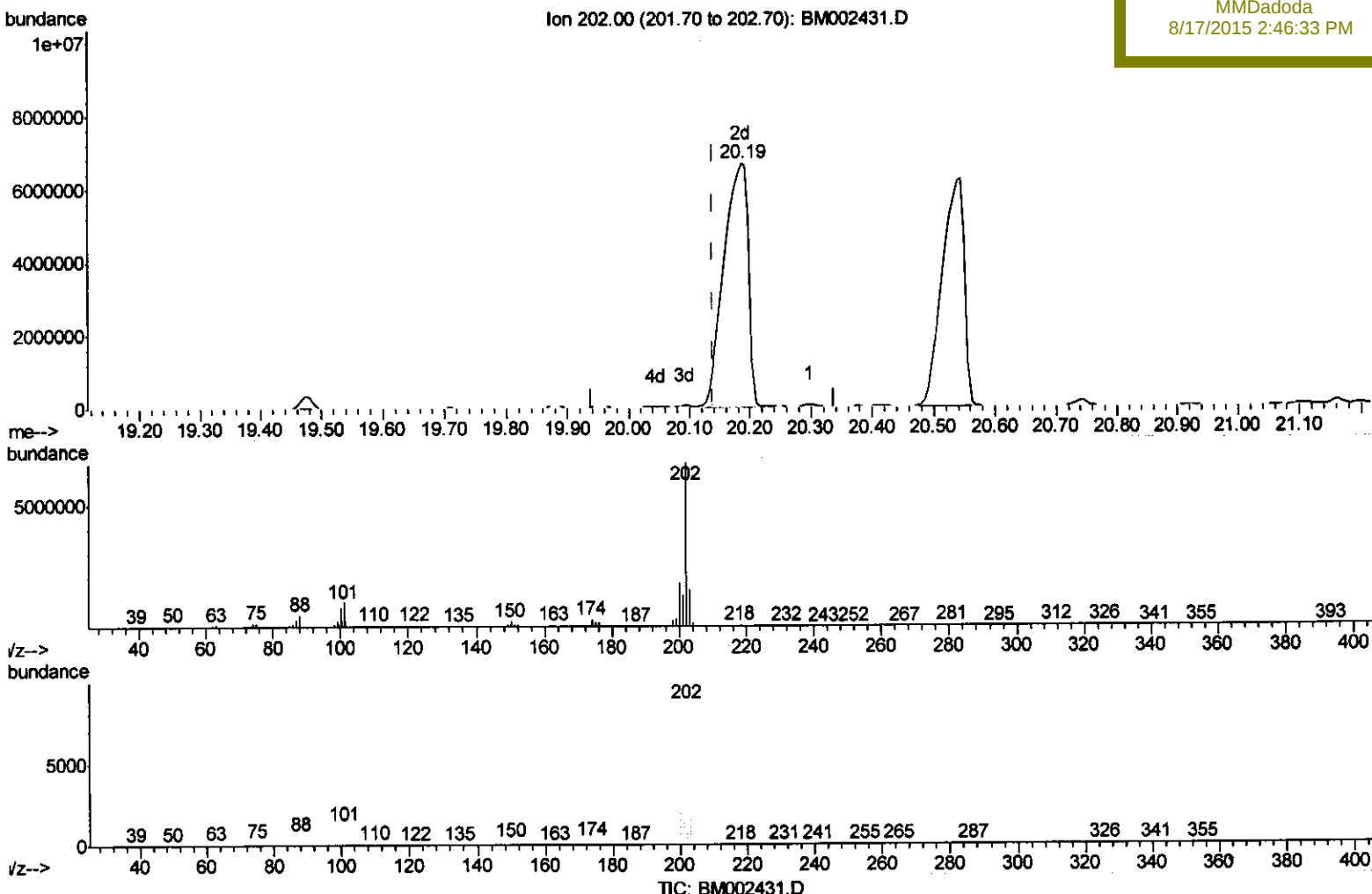
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:32:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(16) Fluoranthene (C)

20.186min (+0.047) 394.84ng/ul m

response 18864090

Ion	Exp%	Act%
202.00	100	100
101.00	12.10	14.84#
100.00	9.30	11.36#
0.00	0.00	0.00

U.M.
 08/18/15

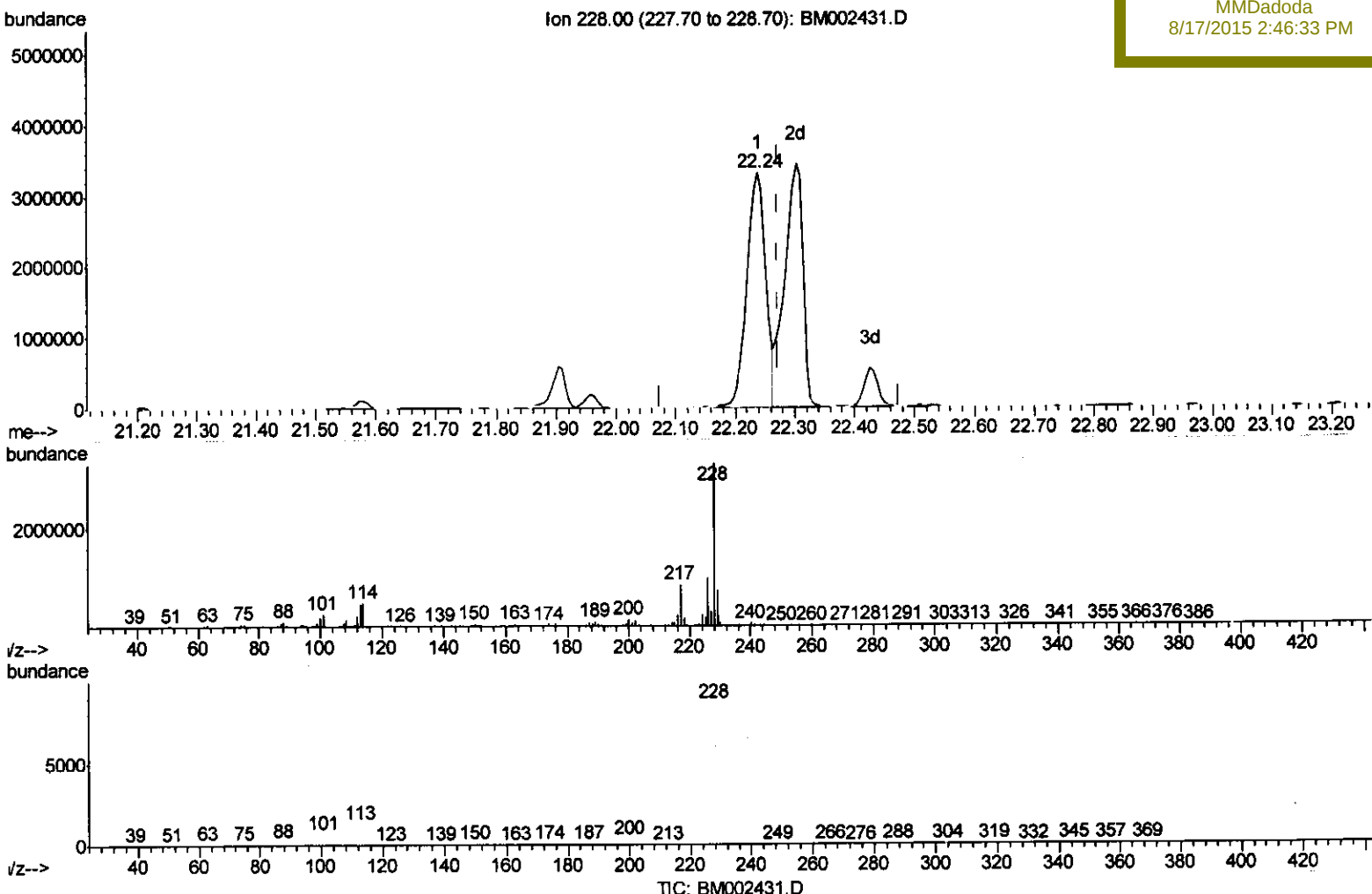
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:32:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 Last Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(21) Chrysene

22.239min (-0.035) 300.58ng/ul

response 7289951

Ion	Exp%	Act%
228.00	100	100
226.00	29.30	29.20
229.00	19.60	21.61
0.00	0.00	0.00

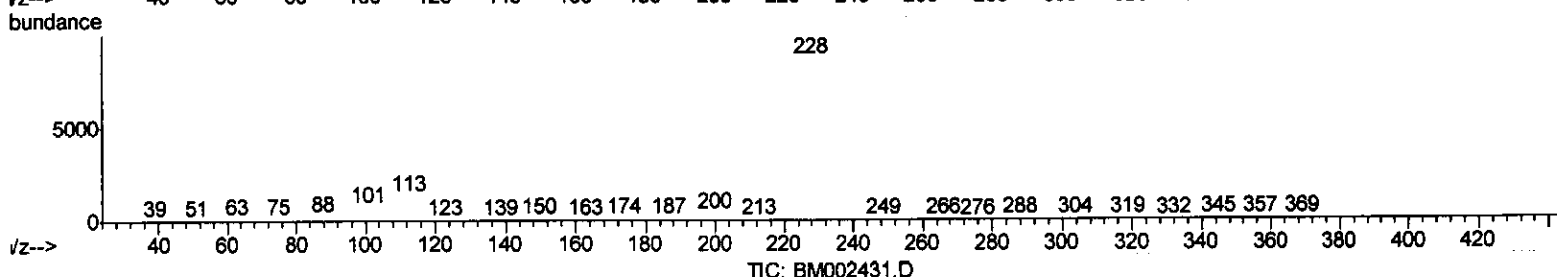
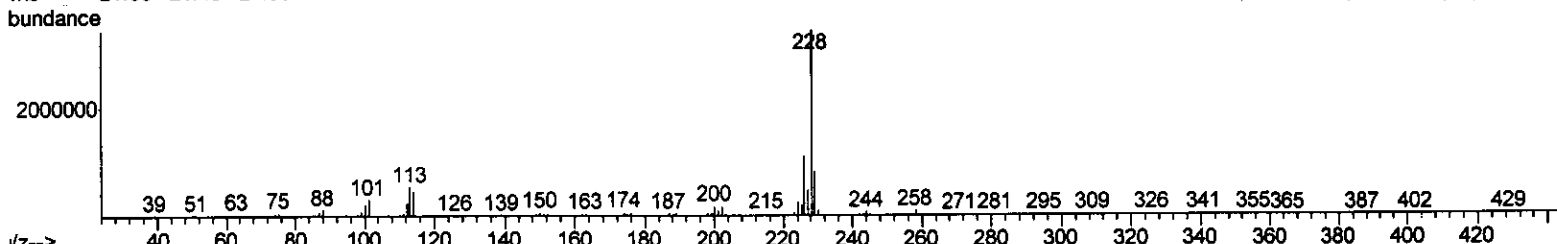
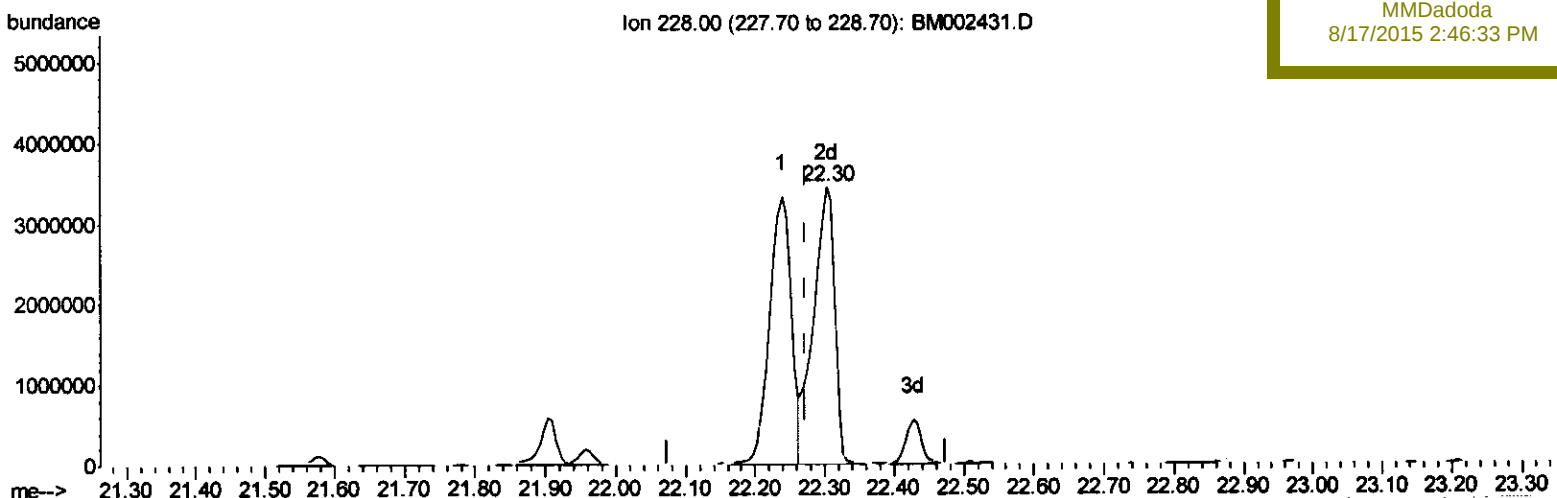
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:32:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(21) Chrysene

22.303min (+0.029) 300.29ng/ul m

response 7282845

Ion	Exp%	Act%
228.00	100	100
226.00	29.30	31.89
229.00	19.60	24.18#
0.00	0.00	0.00

> U.M.
08/18/15

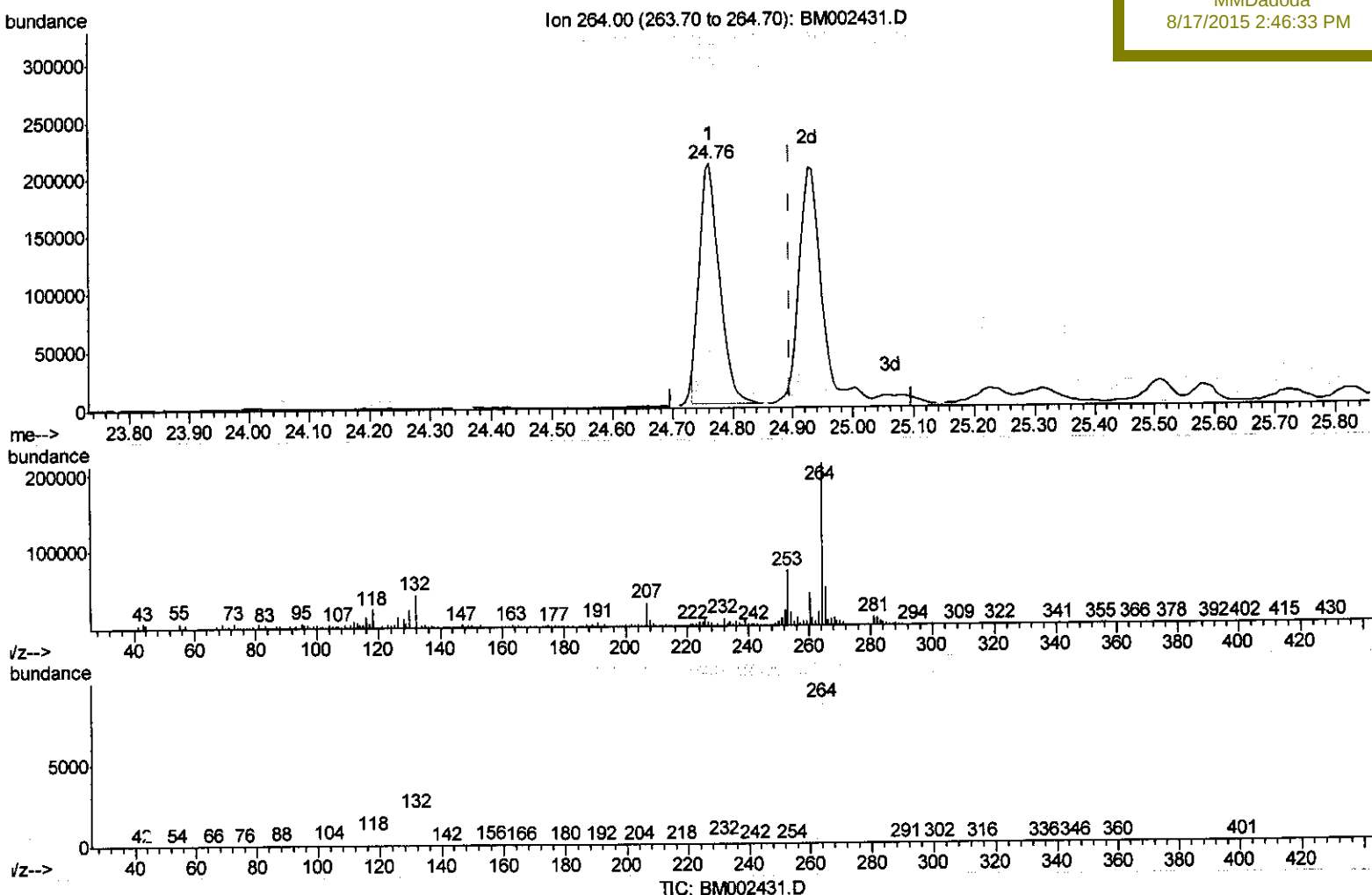
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM

Quant Time: Aug 17 05:32:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration



(22) Perylene-d12 (I)

24.762min (-0.135) 20.00ng/ul

response 481704

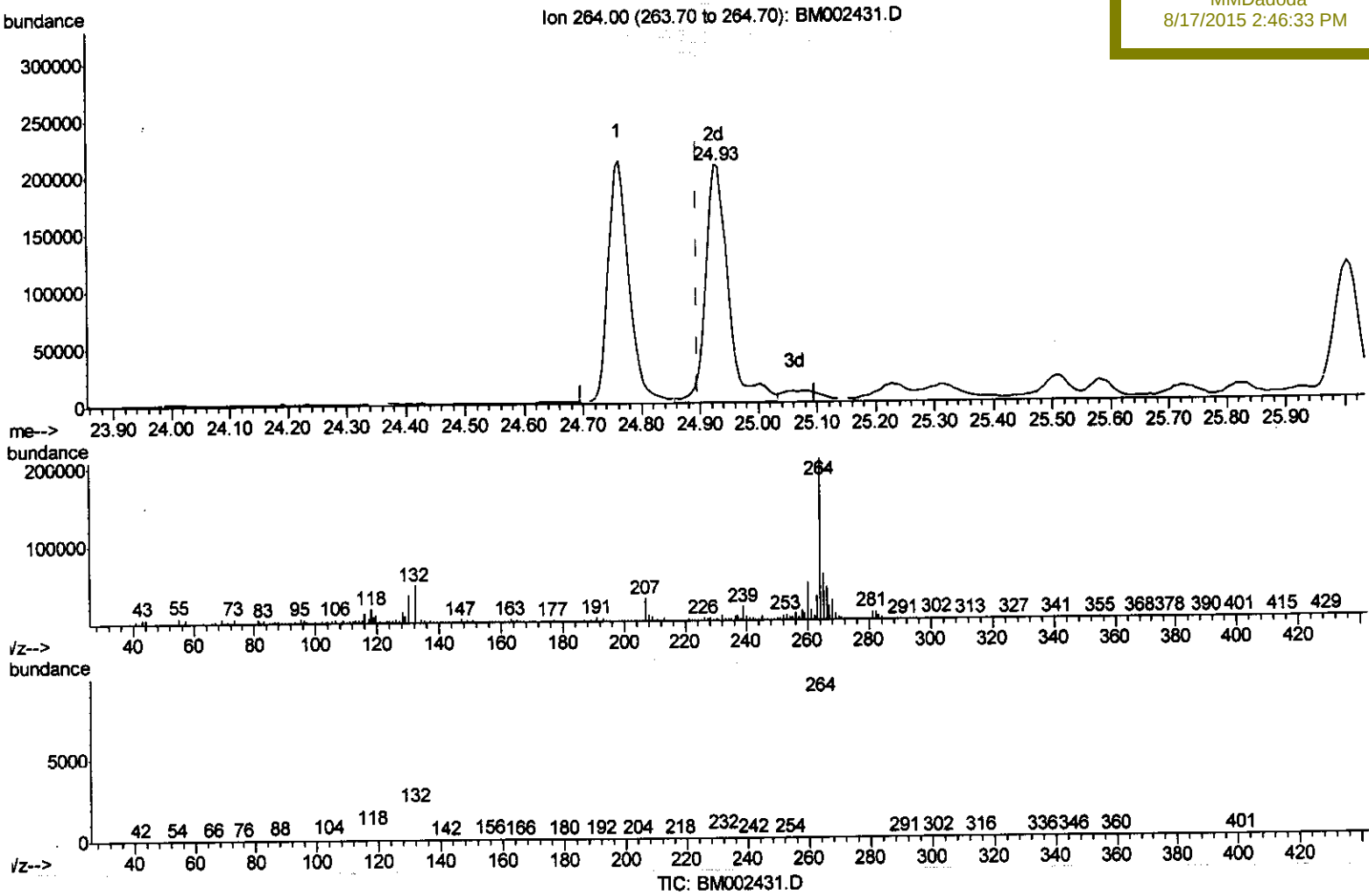
Ion	Exp%	Act%
264.00	100	100
260.00	23.60	19.90
265.00	21.40	23.39
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002431.D
Acq On : 15 Aug 2015 19:01
Operator : UM/IZ
Sample : G3194-05
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:32:23 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 05:12:59 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampled :
D9D98

Manual Integrations
APPROVED
MMDadoda
8/17/2015 2:46:33 PM



(22) Perylene-d12 (I)

24.927min (+0.029) 20.00ng/ul m > U.M.
response 558266 08/18/15

Ion	Exp%	Act%
264.00	100	100
260.00	23.60	23.11
265.00	21.40	29.06#
0.00	0.00	0.00

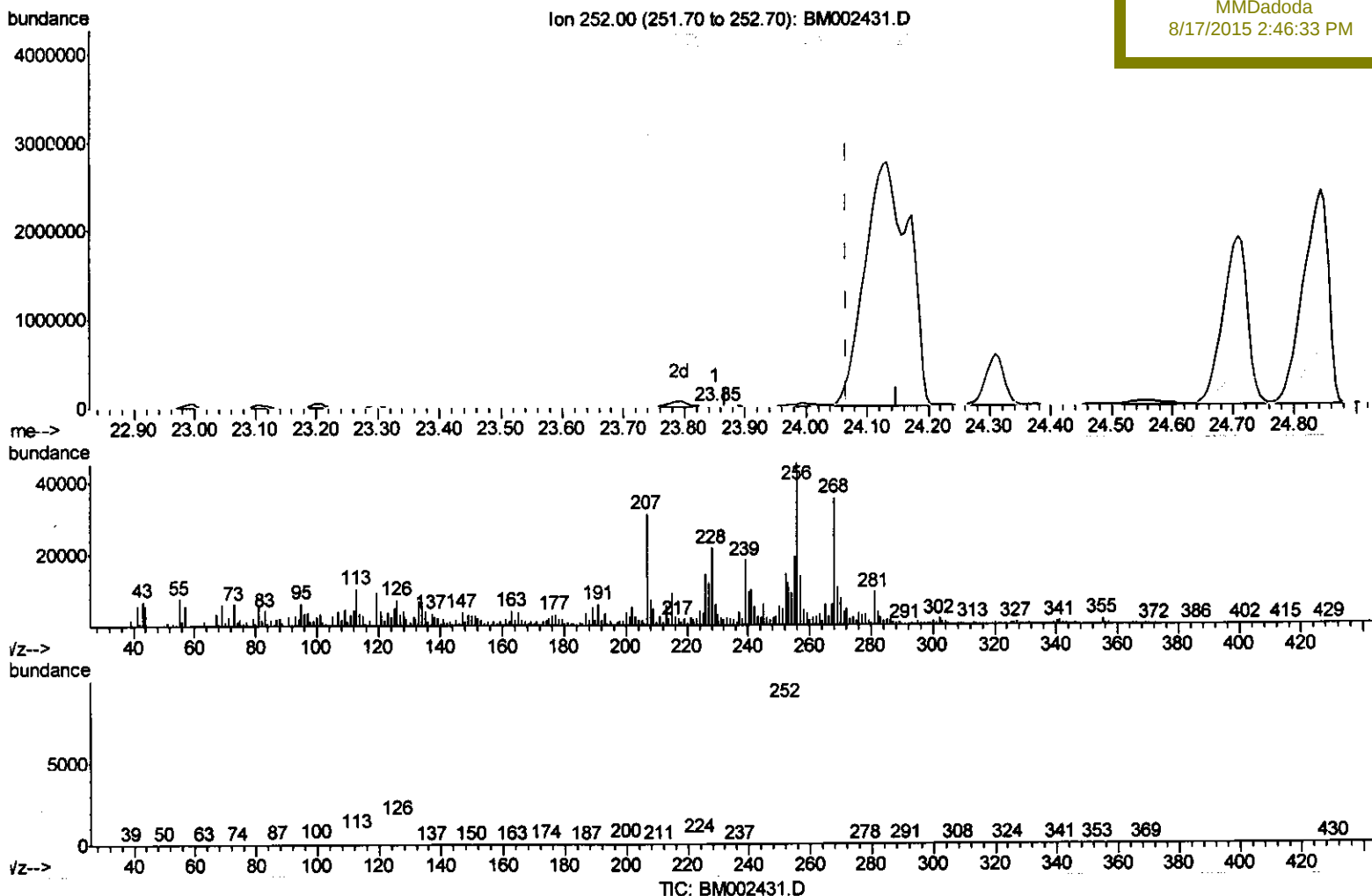
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002431.D
Acq On : 15 Aug 2015 19:01
Operator : UM/IZ
Sample : G3194-05
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 05:12:59 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9D98

Manual Integrations
APPROVED

MMDadoda
8/17/2015 2:46:33 PM



(23) Benzo(b)fluoranthene

23.850min (-0.218) 0.82ng/ul

response 27579

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	83.36#
125.00	12.50	36.34#
0.00	0.00	0.00

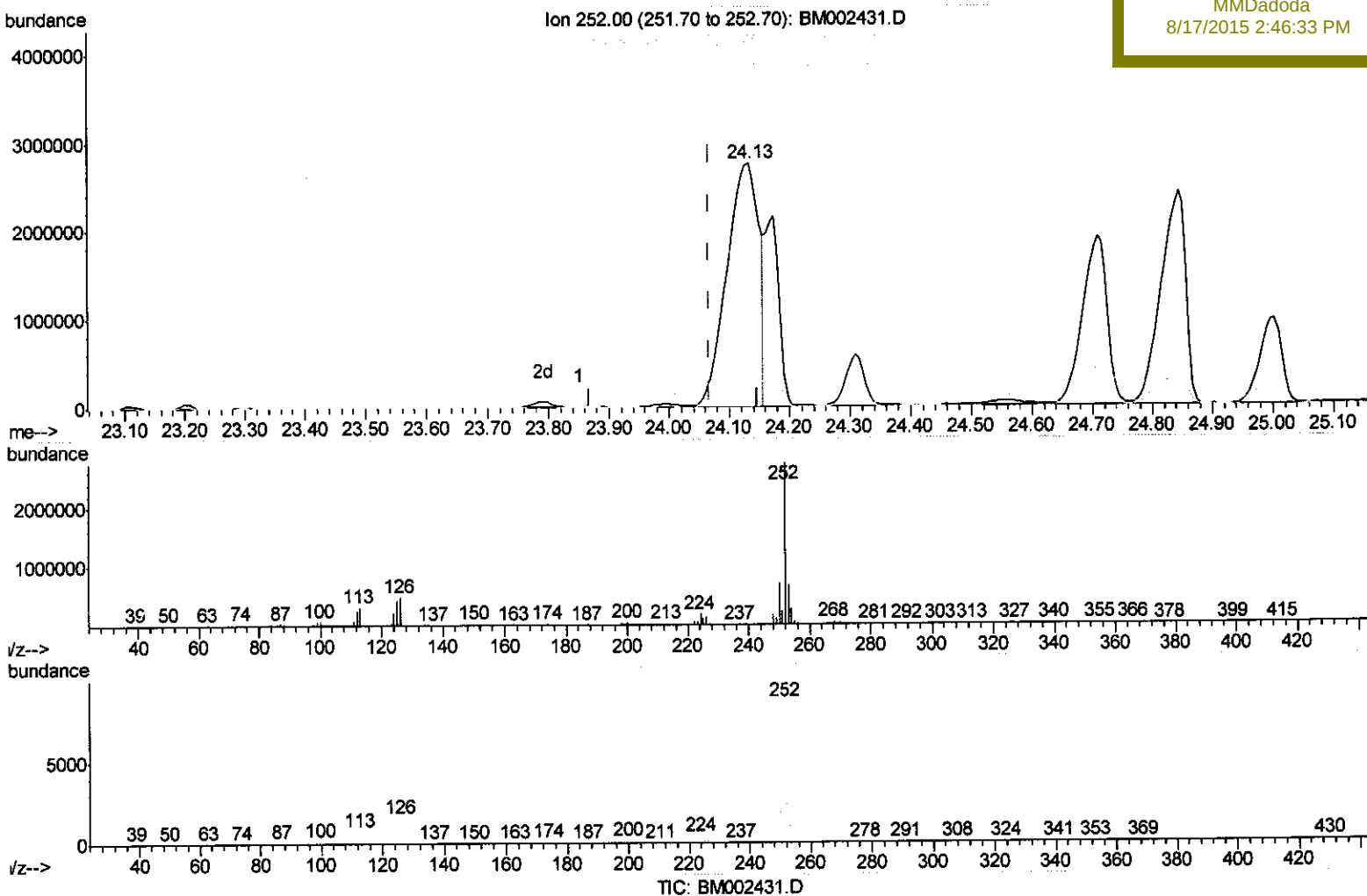
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(23) Benzo(b)fluoranthene

24.133min (+0.065) 305.09ng/ul m

response 10296848

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	23.73
125.00	12.50	15.13#
0.00	0.00	0.00

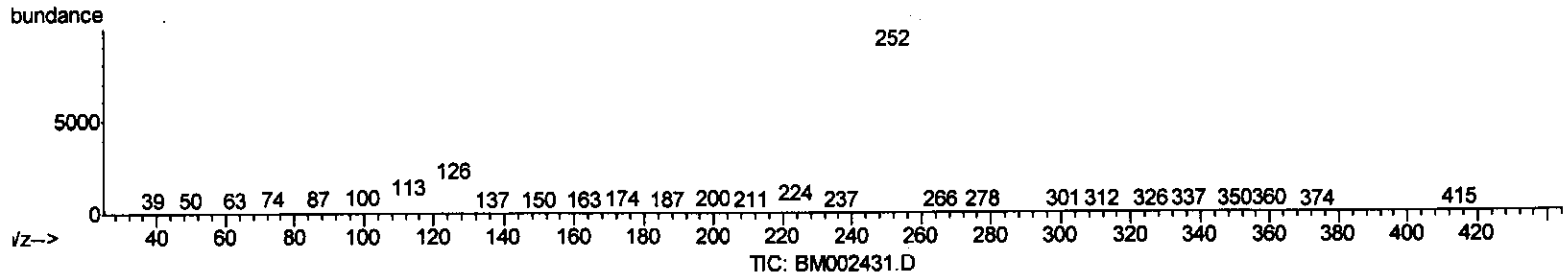
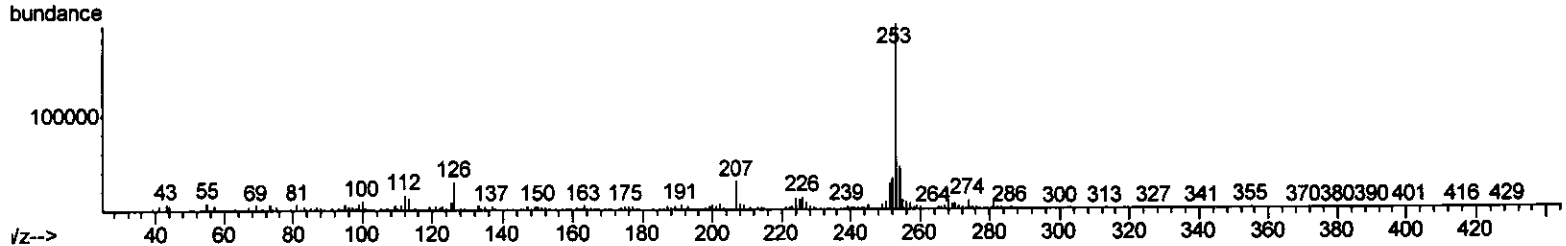
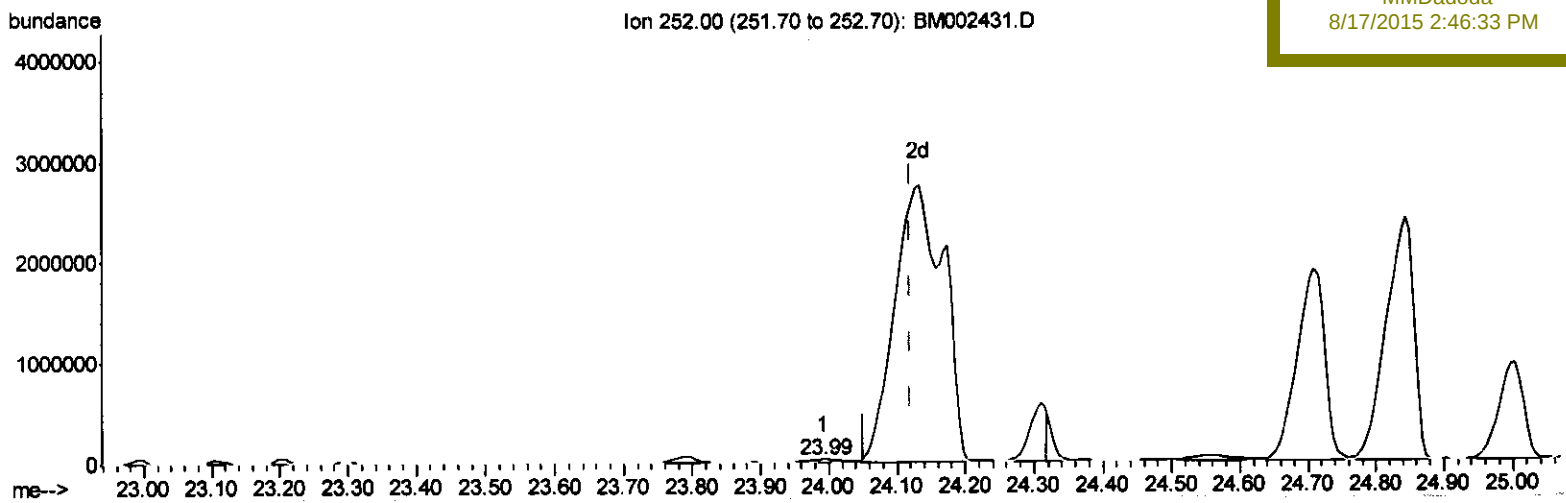
U.M.
 08/18/15

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED
 MMDadoda
 8/17/2015 2:46:33 PM



(24) Benzo(k)fluoranthene

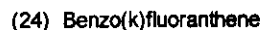
23.991min (-0.129) 2.63ng/ul

response 84217

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	575.67#
125.00	12.30	23.46#
0.00	0.00	0.00

Quant Time: Aug 17 05:35:34 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 05:12:59 2015
Response via : Initial Calibration

MMDadoda
8/17/2015 2:46:33 PM



24.174min (+0.053) 104.51ng/ul m

response 3342625

Ion	Exp%	Act%
-----	------	------

252.00	100	100
253.00	22.20	24.52
125.00	12.30	13.11
0.00	0.00	0.00

U.M.
08/18/15

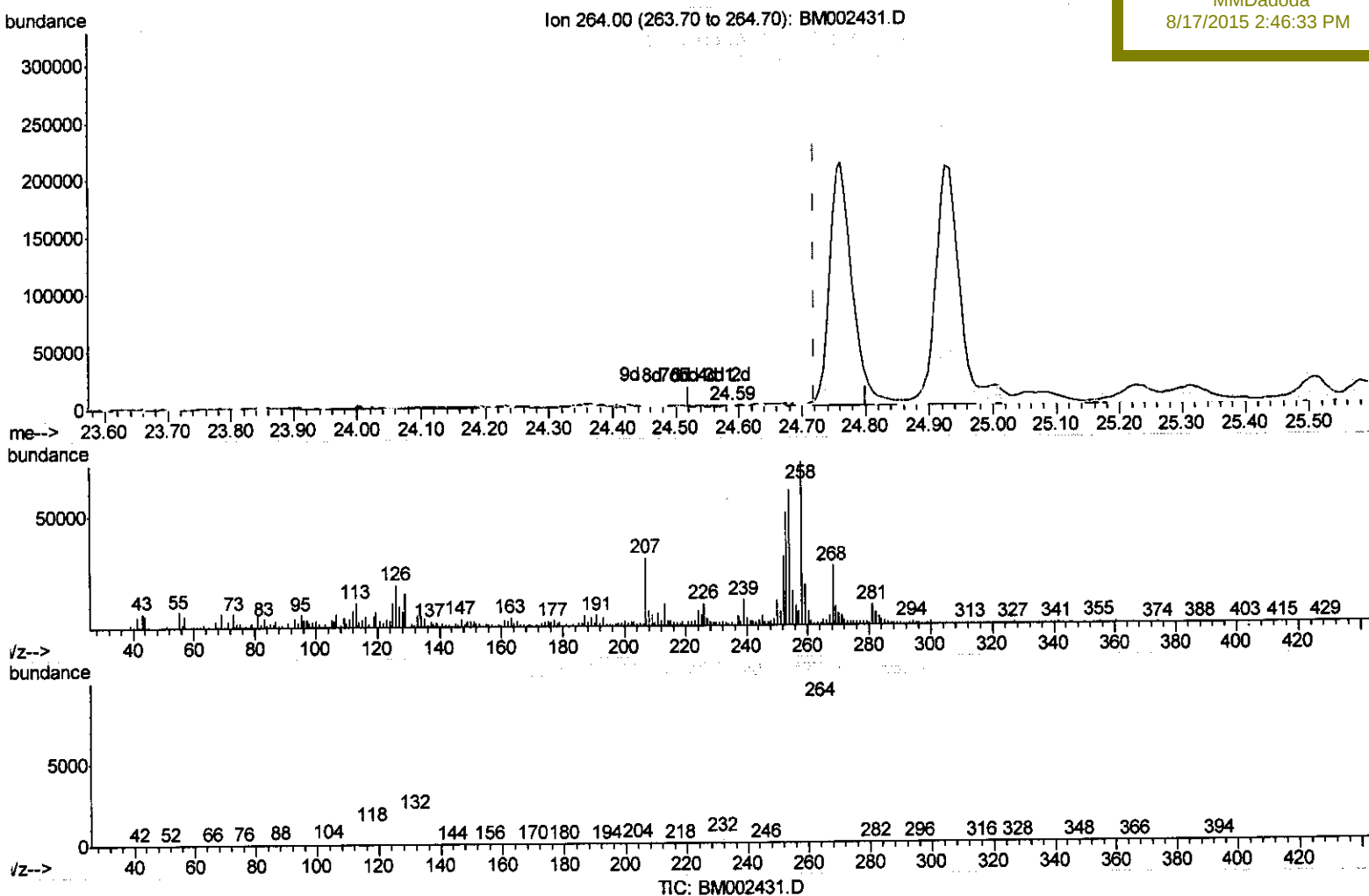
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(25) Benzo(a)pyrene-d12 (S)

24.585min (-0.135) 0.01ng/ui

response 179

Ion	Exp%	Act%
264.00	100	100
132.00	20.40	100.51#
118.00	11.60	0.00#
0.00	0.00	0.00

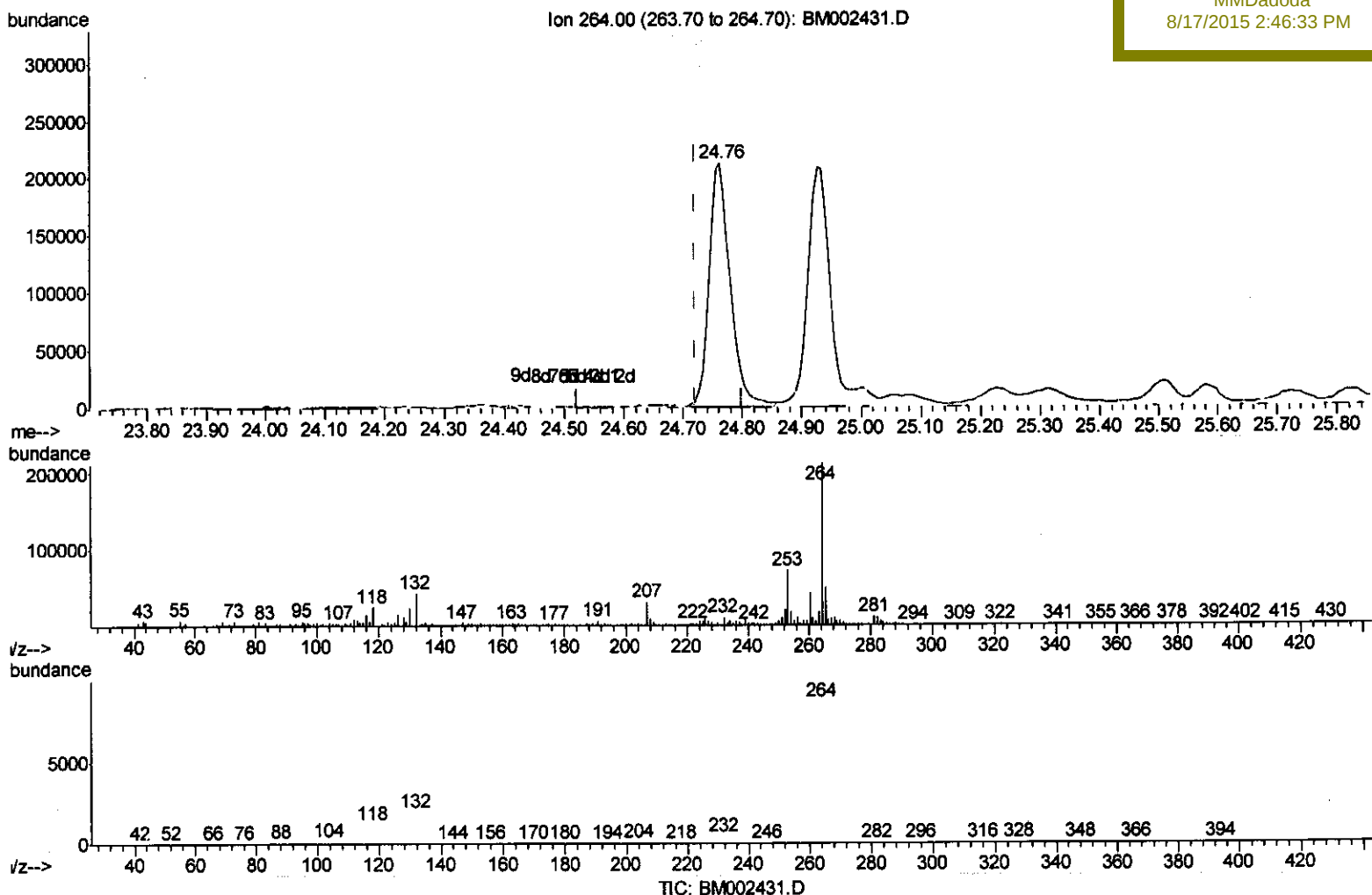
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(25) Benzo(a)pyrene-d12 (S)

24.762min (+0.041) 17.83ng/ul m

response 522833

Ion	Exp%	Act%
264.00	100	100
132.00	20.40	20.09
118.00	11.60	11.72
0.00	0.00	0.00

U.M.
 08/18/15

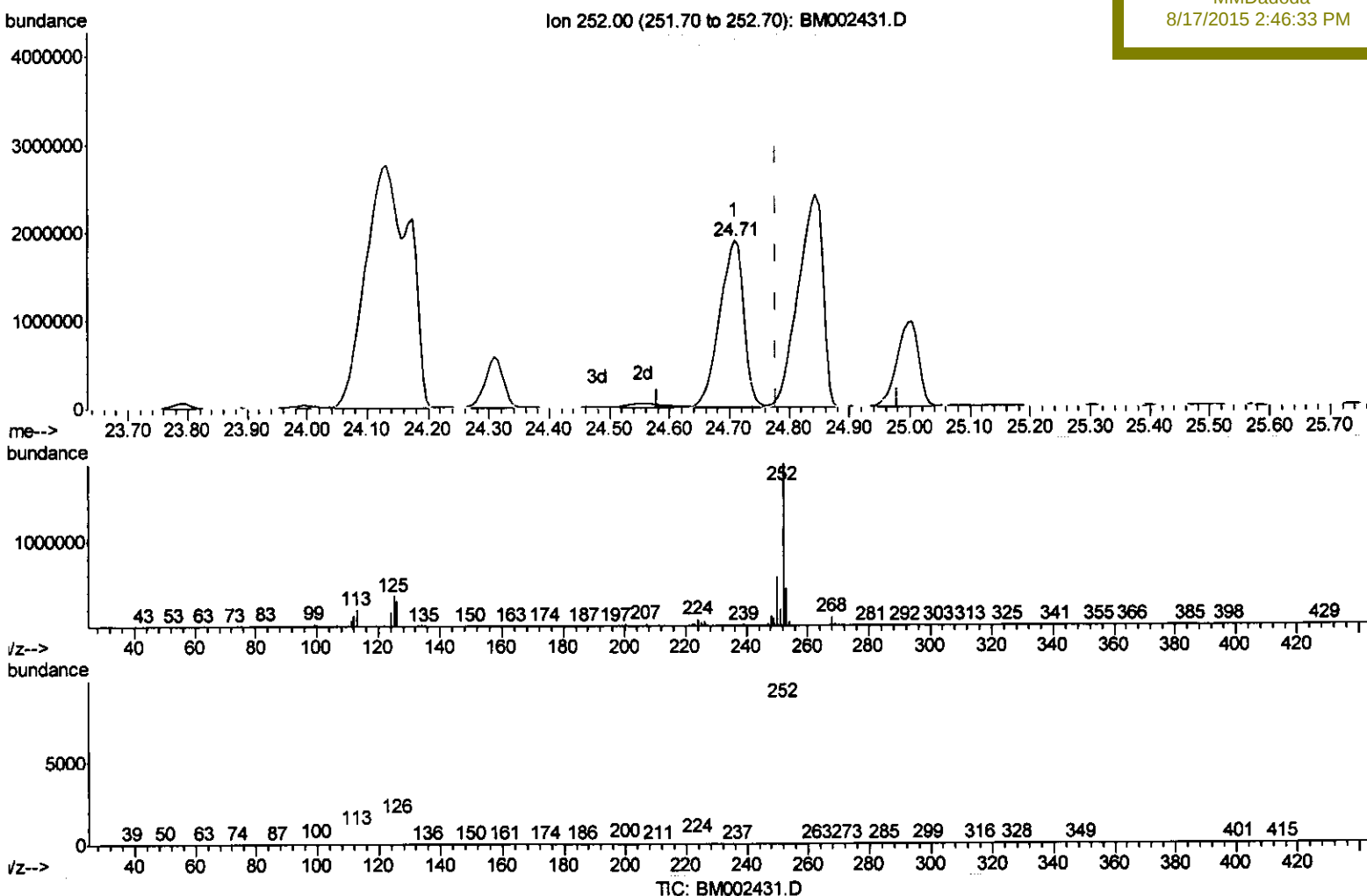
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(26) Benzo(a)pyrene (C)

24.709min (-0.071) 165.18ng/ul

response 5324705

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	23.29
125.00	13.40	19.12#
0.00	0.00	0.00

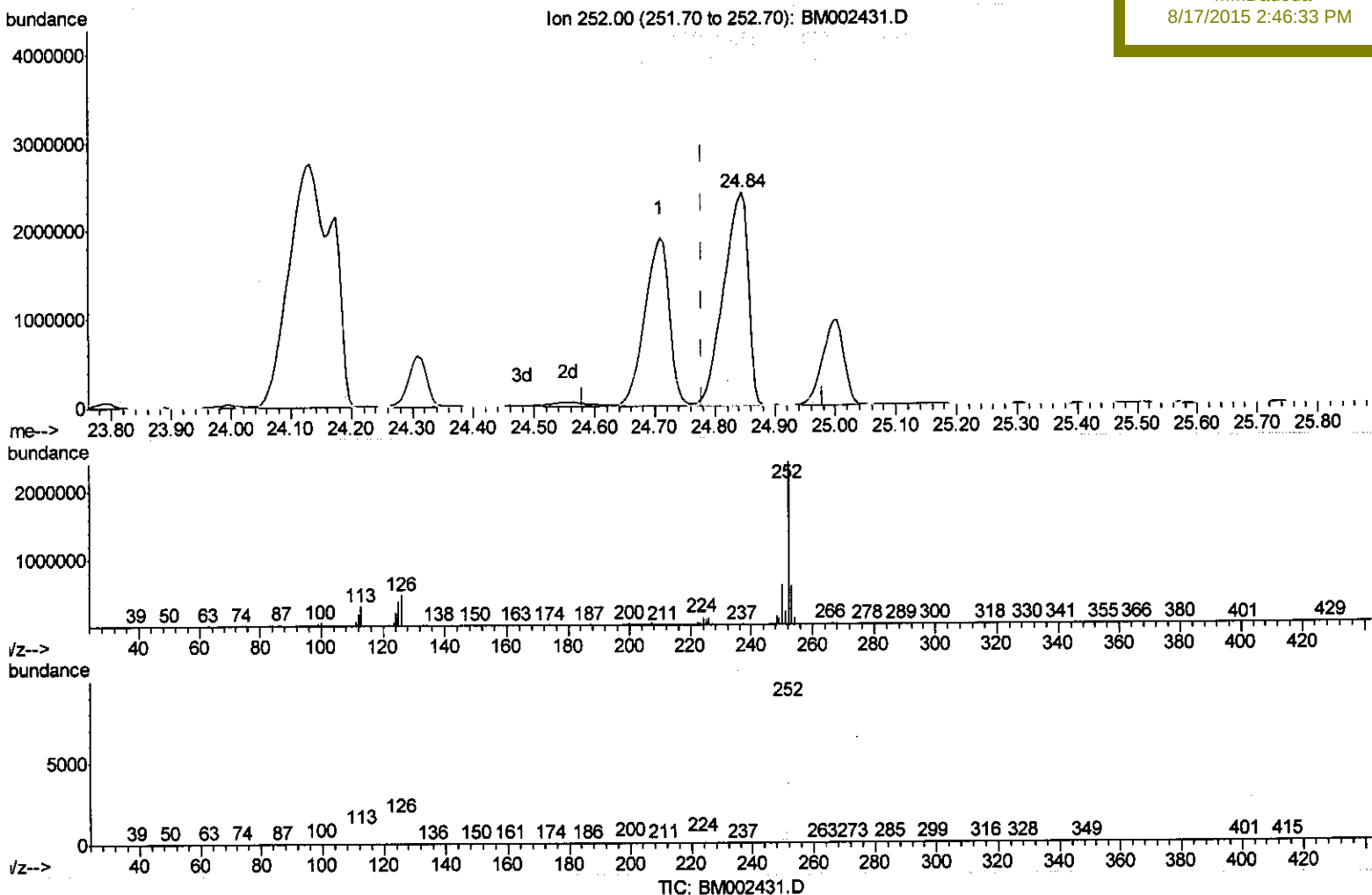
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_M
 Client Sample ID :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration



(26) Benzo(a)pyrene (C)

24.844min (+0.065) 214.67ng/ul m

response 6920231

> u.m.
 08/18/15

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	23.92
125.00	13.40	15.38
0.00	0.00	0.00

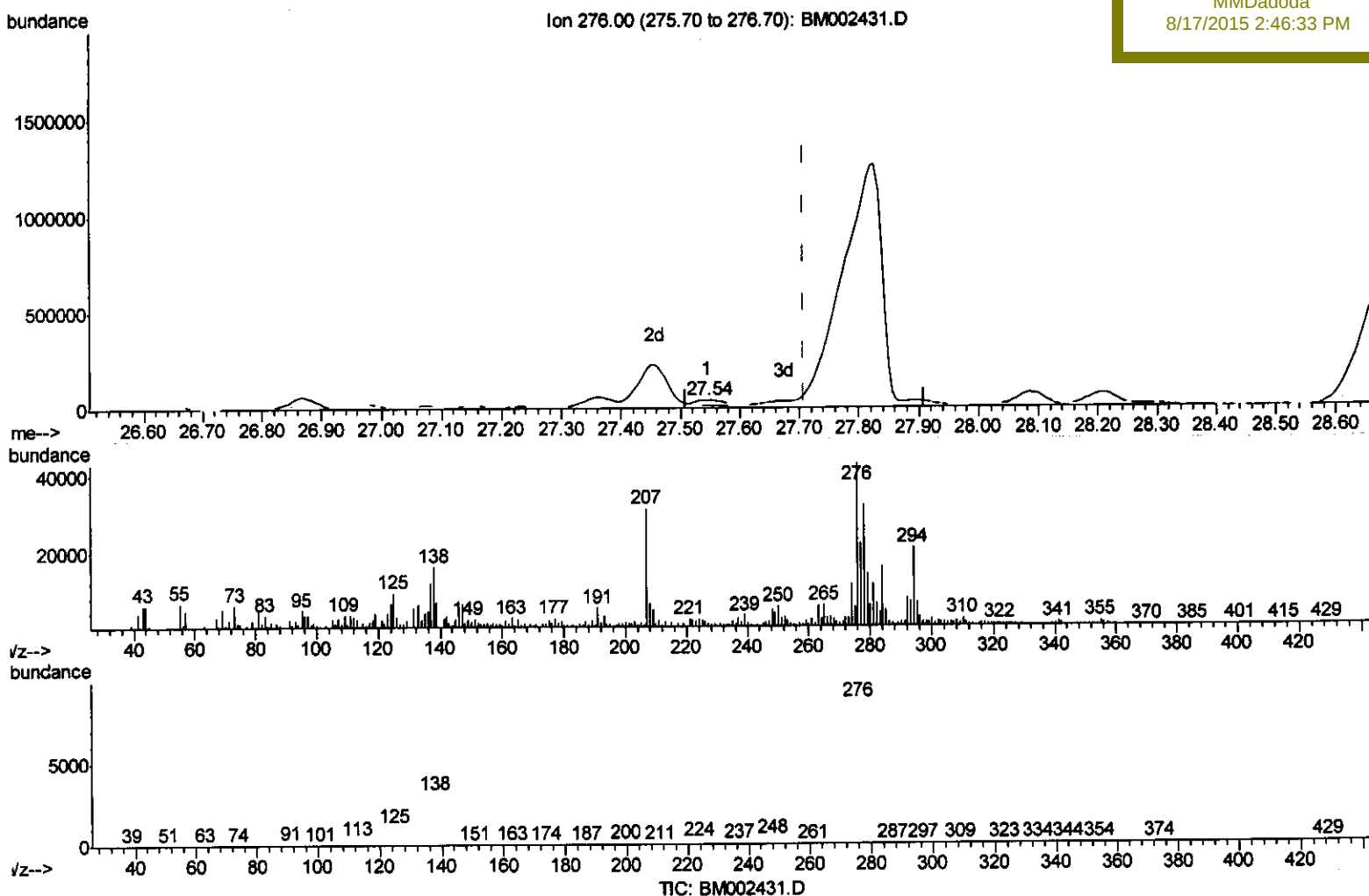
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(27) Indeno(1,2,3-cd)pyrene

27.544min (-0.165) 2.56ng/ul

response 94957

Ion	Exp%	Act%
276.00	100	100
138.00	31.60	38.00#
277.00	25.20	51.48#
0.00	0.00	0.00

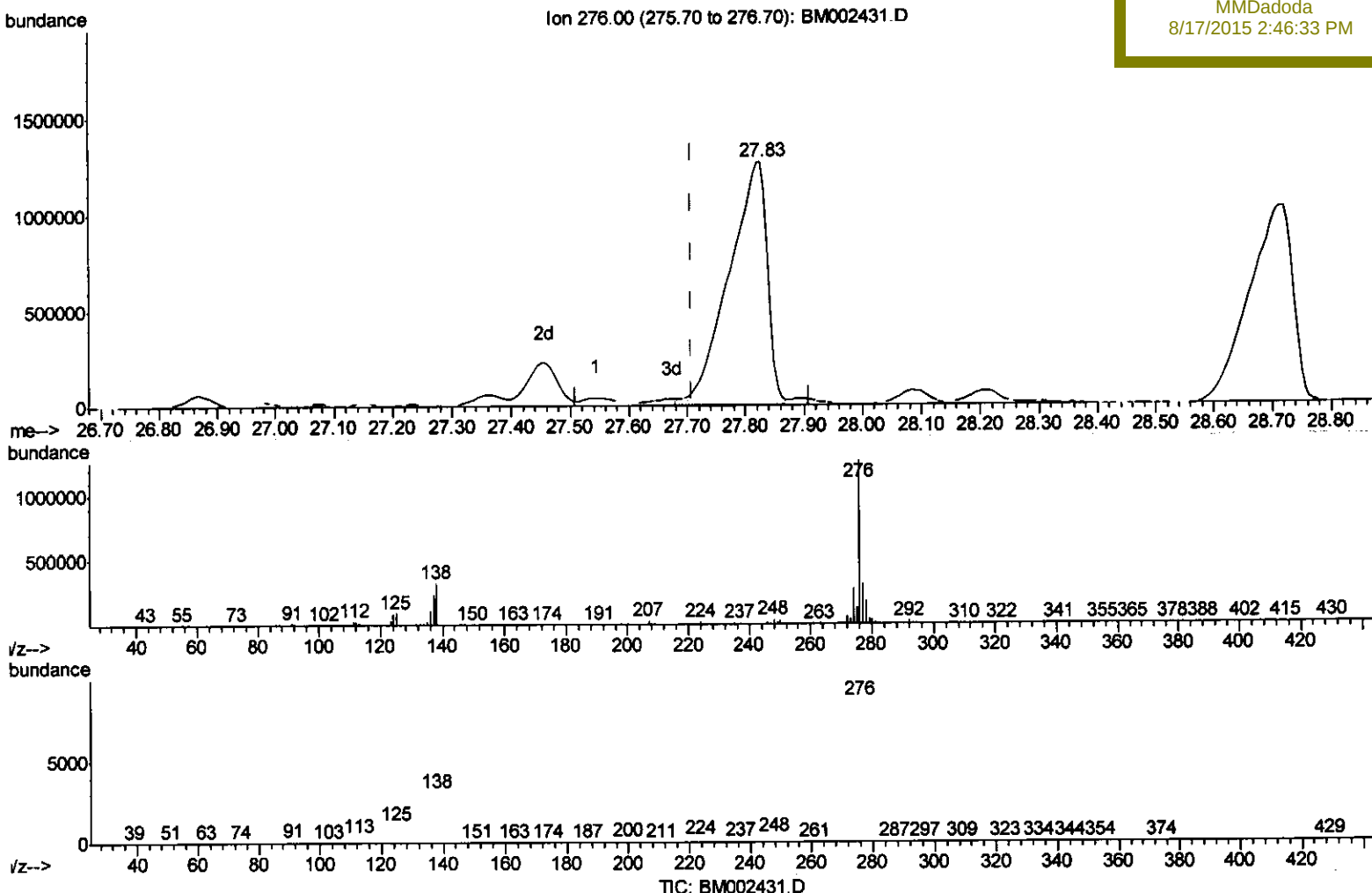
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(27) Indeno(1,2,3-cd)pyrene

27.826min (+0.118) 155.25ng/ul m

response 5755650

U.M.
 08/18/15

Ion	Exp%	Act%
276.00	100	100
138.00	31.60	25.79
277.00	25.20	24.68
0.00	0.00	0.00

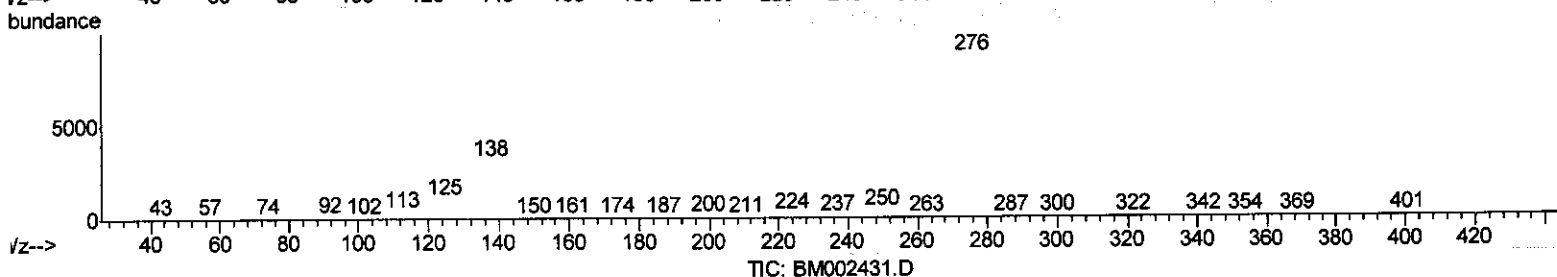
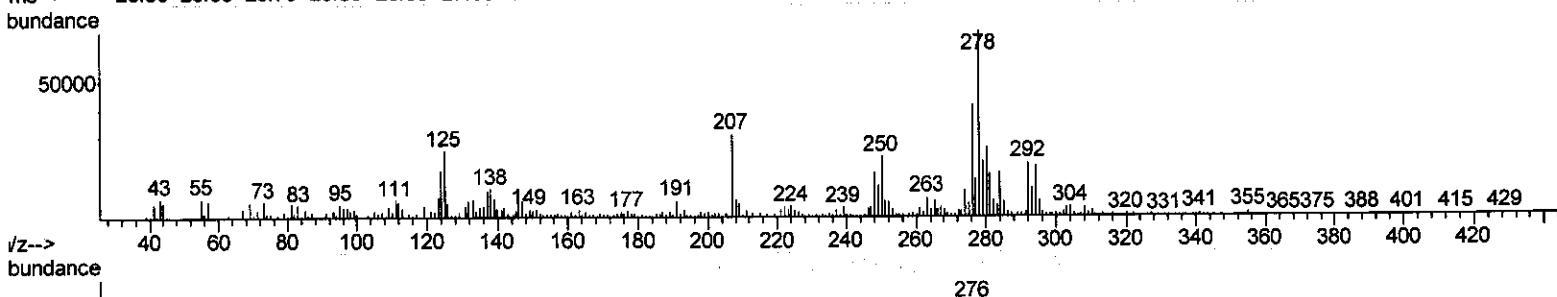
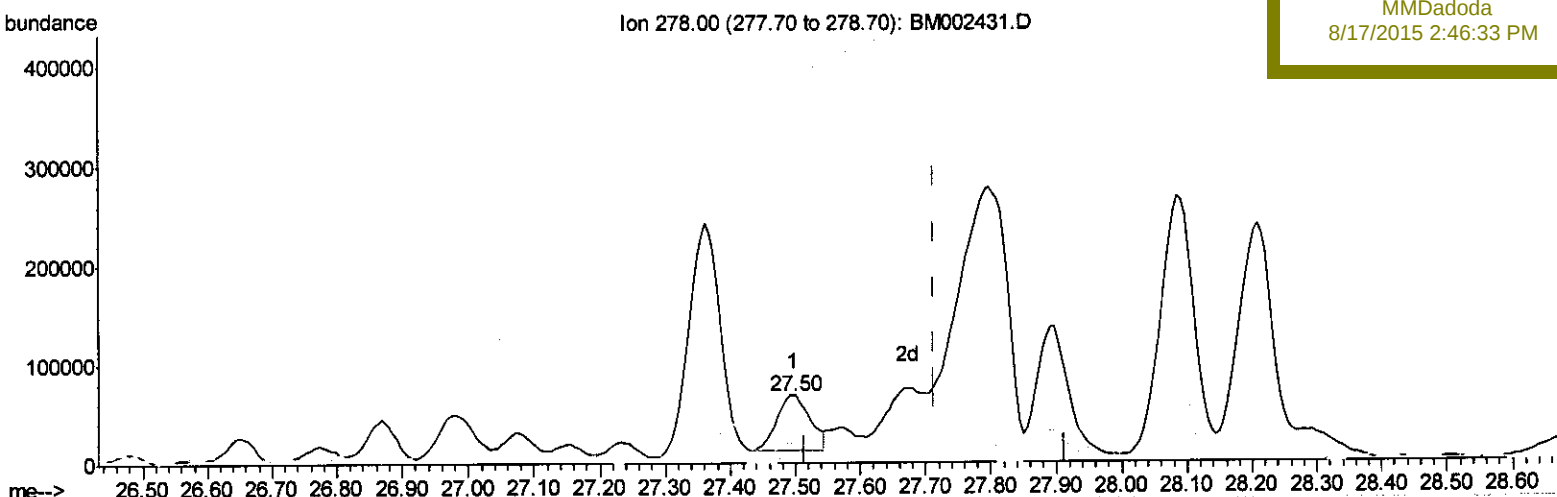
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002431.D
Acq On : 15 Aug 2015 19:01
Operator : UM/IZ
Sample : G3194-05
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 05:12:59 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9D98

Manual Integrations
APPROVED

MMDadoda
8/17/2015 2:46:33 PM



(28) Dibenzo(a,h)anthracene

27.497min (-0.218) 6.39ng/ul

response 198032

Ion	Exp%	Act%
278.00	100	100
139.00	20.60	10.91#
279.00	23.50	30.51#
0.00	0.00	0.00

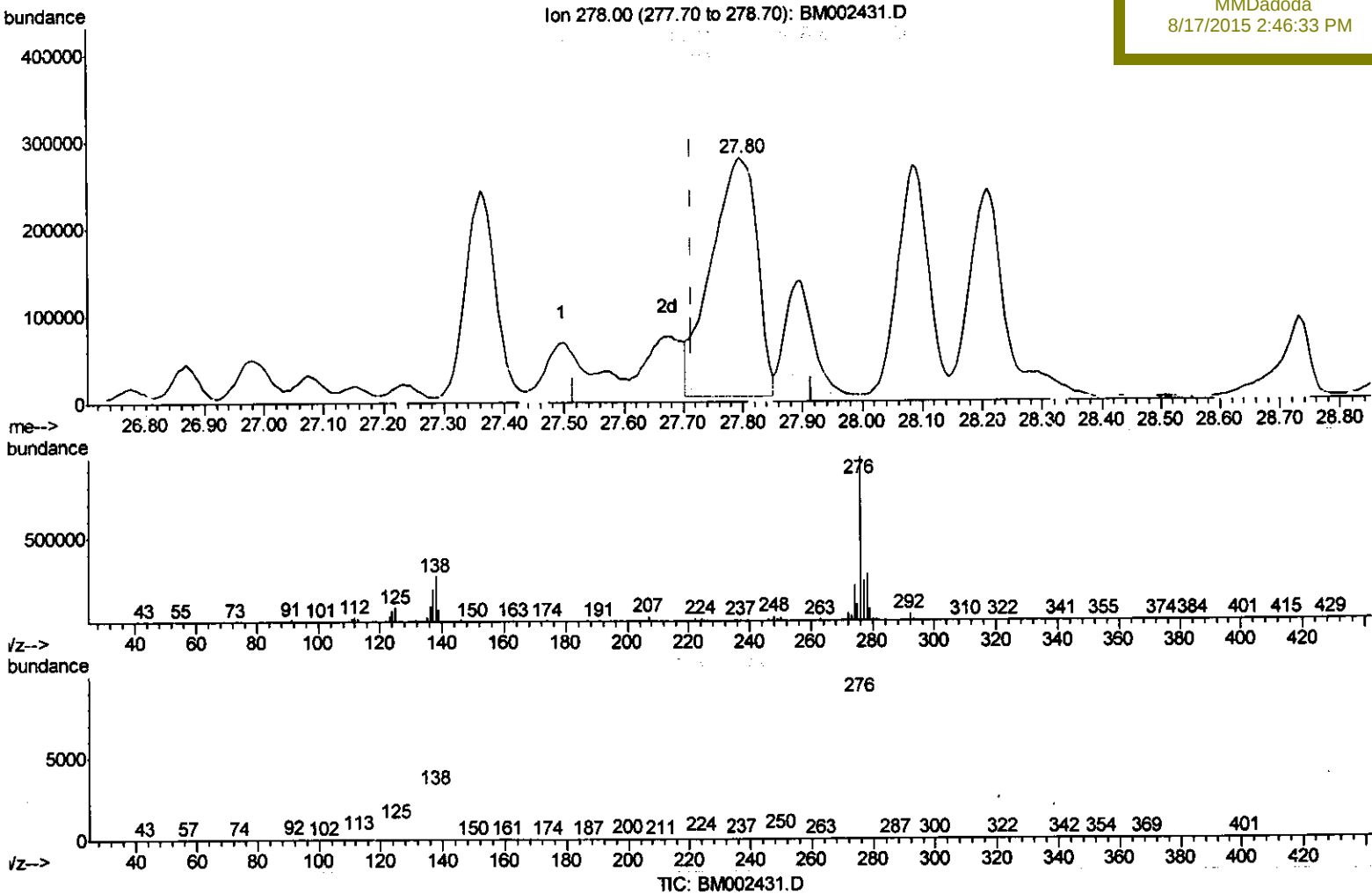
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002431.D
Acq On : 15 Aug 2015 19:01
Operator : UM/IZ
Sample : G3194-05
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 05:12:59 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9D98

Manual Integrations
APPROVED

MMDadoda
8/17/2015 2:46:33 PM



(28) Dibenzo(a,h)anthracene

27.797min (+0.082) 46.89ng/ul m

response 1453054

Ion	Exp%	Act%
278.00	100	100
139.00	20.60	26.86#
279.00	23.50	27.01
0.00	0.00	0.00

U.M.
08/18/15

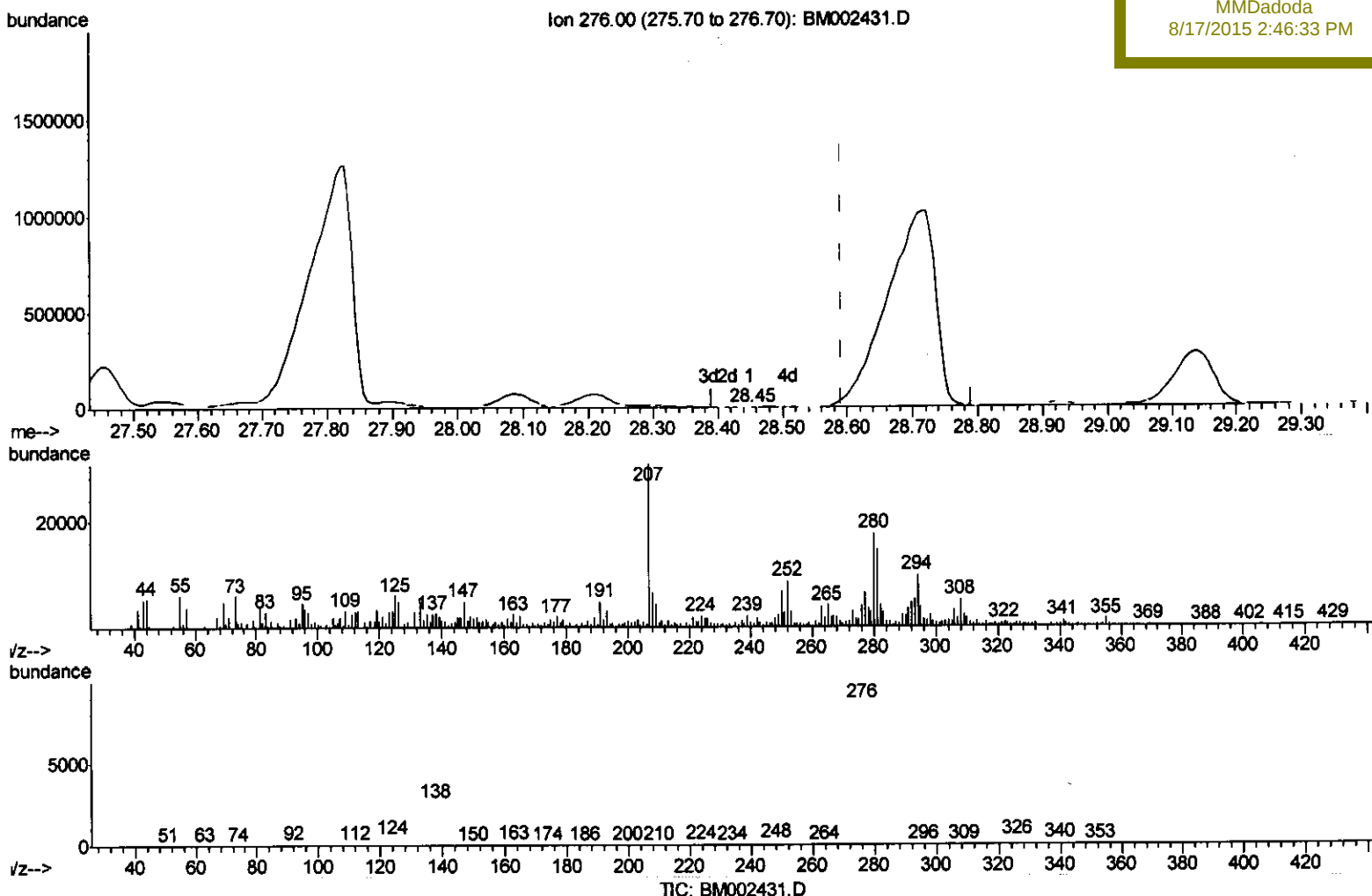
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(29) Benzo(g,h,i)perylene

28.450min (-0.141) 0.02ng/ul

response 621

Ion	Exp%	Act%
276.00	100	100
138.00	26.30	69.58#
277.00	24.00	154.90#
0.00	0.00	0.00

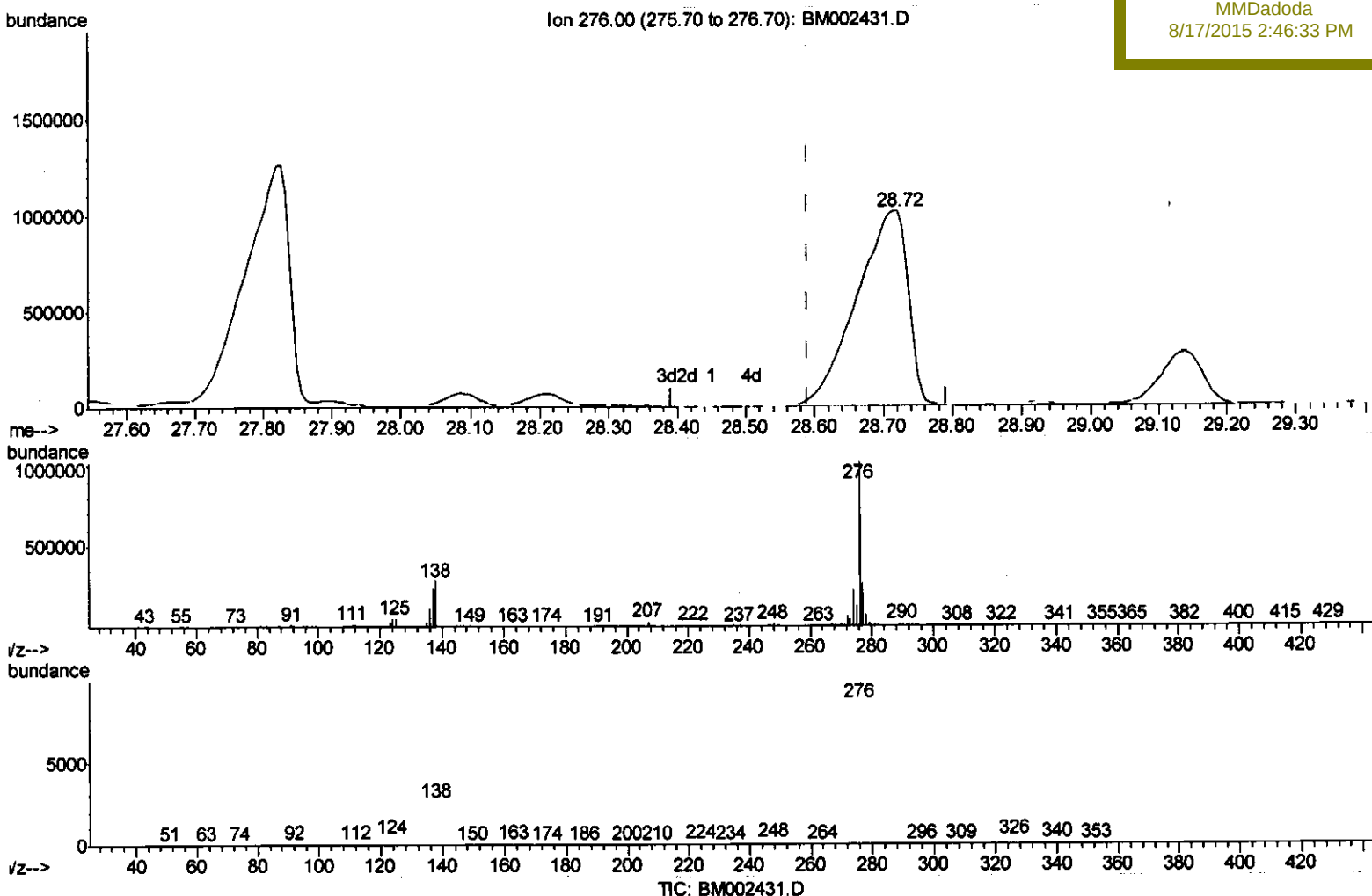
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3194-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:35:34 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
 APPROVED

MMDadoda
 8/17/2015 2:46:33 PM



(29) Benzo(g,h,i)perylene

28.720min (+0.129) 169.65ng/ul m

response 5235269

Ion	Exp%	Act%
276.00	100	100
138.00	26.30	27.97
277.00	24.00	26.08
0.00	0.00	0.00

U.M.
 08/18/15

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002431.D
Acq On : 15 Aug 2015 19:01
Operator : UM/IZ
Sample : G3194-05
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 17 05:40:12 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 05:12:59 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9D98

Manual Integrations
APPROVED

MMDadoda
8/17/2015 2:46:33 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.87	152	152336	20.00	ng/ul	0.00
2) Naphthalene-d8	11.75	136	739520	20.00	ng/ul	0.00
6) Acenaphthene-d10	15.45	164	391057	20.00	ng/ul	0.00
12) Phenanthrene-d10	18.17	188	730804m	20.00	ng/ul	0.01
17) Chrysene-d12	22.26	240	433615	20.00	ng/ul	0.02
22) Perylene-d12	24.93	264	558266m	20.00	ng/ul	0.03

U.M.
08/18/15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
7) Acenaphthylene-d8	15.16	160	1194398	29.87	ng/ul	0.00
10) Fluorene-d10	16.43	176	769205	27.39	ng/ul	0.00
14) Anthracene-d10	18.27	188	998055	28.31	ng/ul	0.02
18) Pvrene-d10	20.49	212	667369	34.72	ng/ul	0.02
25) Benzo(a)pyrene-d12	24.76	264	522833m	17.83	ng/ul	0.04

U.M.
08/18/15

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Naphthalene	11.80	128	1505256	39.88	ng/ul	100
4) 2-Methylnaphthalene	13.34	142	482253	17.05	ng/ul	98
5) 1-Methylnaphthalene	13.55	142	411921	14.73	ng/ul	100
8) Acenaphthylene	15.19	152	208173	4.97	ng/ul	98
9) Accenaphthene	15.52	153	1708229	61.97	ng/ul	99
11) Fluorene	16.48	166	1727998	54.71	ng/ul	99
13) Phenanthrene	18.24	178	17081132m	404.77	ng/ul	98
15) Anthracene	18.31	178	4027566	94.17	ng/ul	98
16) Fluoranthene	20.19	202	18864090m	394.84	ng/ul	94
19) Pvrene	20.54	202	15713959	618.60	ng/ul#	95
20) Benzo(a)anthracene	22.24	228	7287141	281.03	ng/ul	95
21) Chrysene	22.30	228	7282845m	300.29	ng/ul	
23) Benzo(b)fluoranthene	24.13	252	10296848m	305.09	ng/ul	
24) Benzo(k)fluoranthene	24.17	252	3342625m	104.51	ng/ul	
26) Benzo(a)pvrene	24.84	252	6920231m	214.67	ng/ul	
27) Indeno(1,2,3-cd)pvrene	27.83	276	5755650m	155.25	ng/ul	
28) Dibenzo(a,h)anthracene	27.80	278	1453054m	46.89	ng/ul	
29) Benzo(a,h,i)perylene	28.72	276	5235269m	169.65	ng/ul	

U.M.
08/18/15

U.M.
08/18/15

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