

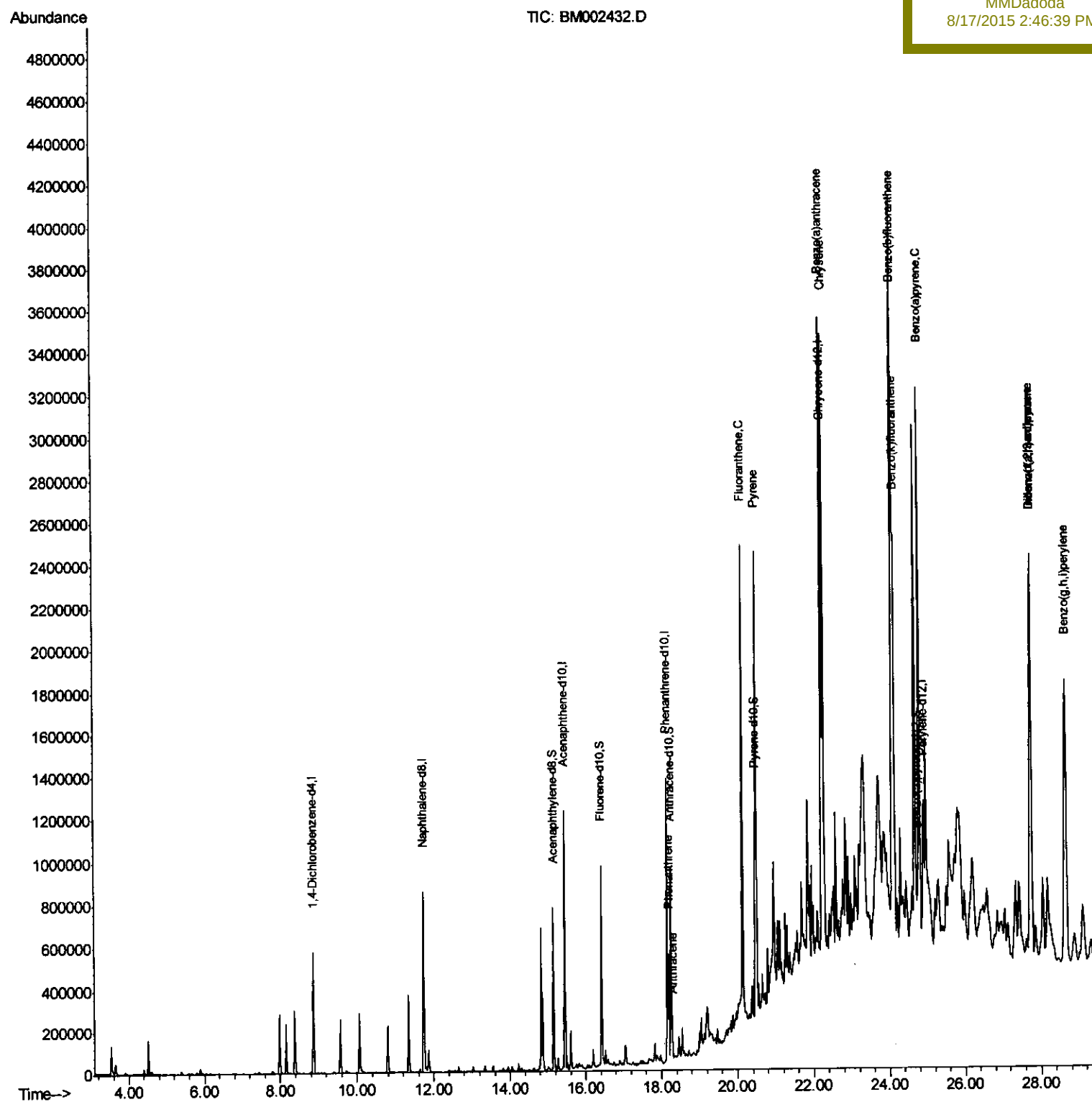
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002432.D
Acq On : 15 Aug 2015 19:37
Operator : UM/IZ
Sample : G3219-11
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:47:40 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 :
D9DA4

Manual Integrations
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8/17/2015 2:46:39 PM



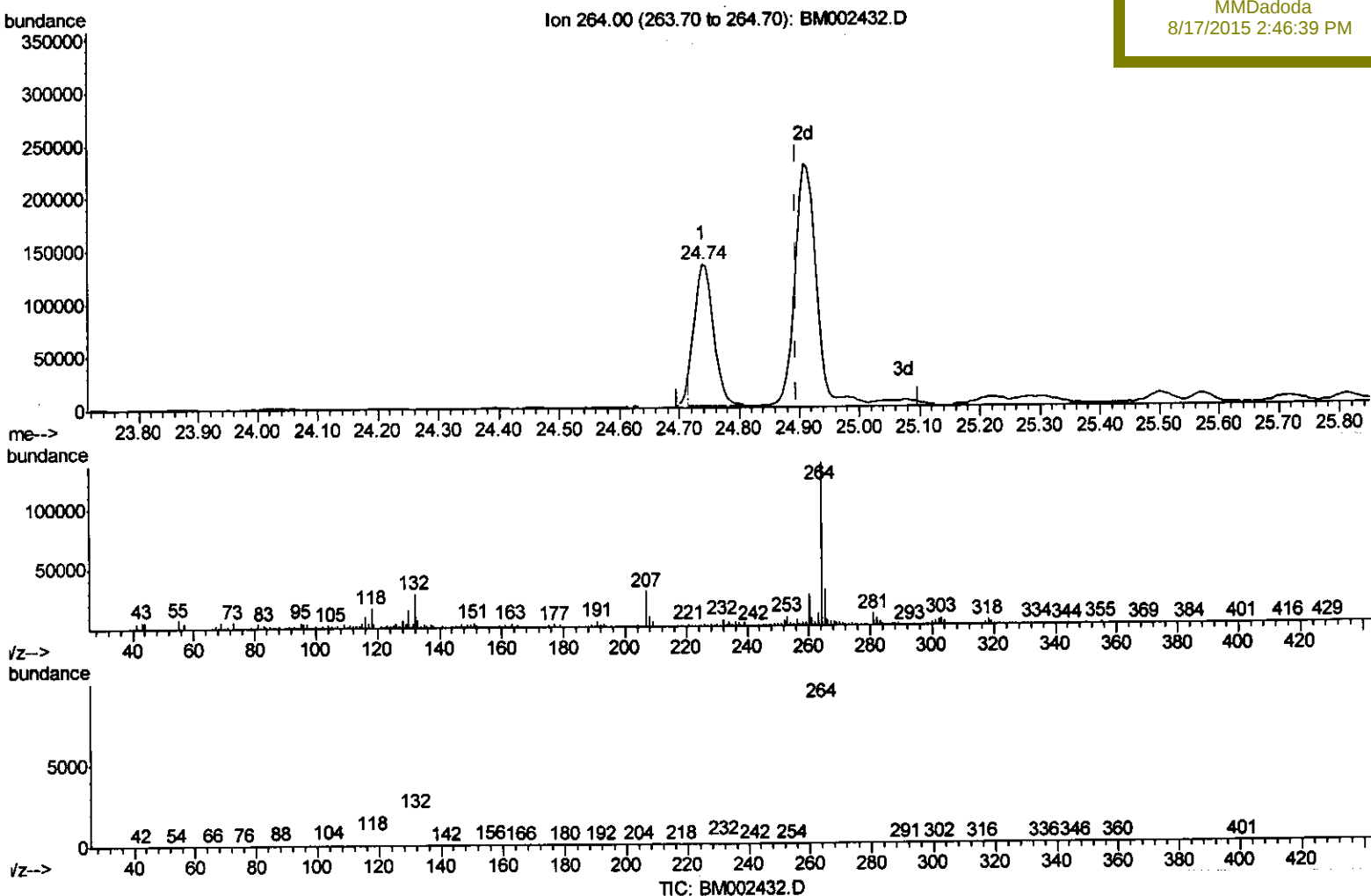
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:18:00 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

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 BNA_M
 ClientSampleId :
 D9DA4

Manual Integrations
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(22) Perylene-d12 (I)

24.738min (-0.159) 20.00ng/ul

response 295138

Ion	Exp%	Act%
264.00	100	100
260.00	23.60	19.52
265.00	21.40	22.42
0.00	0.00	0.00

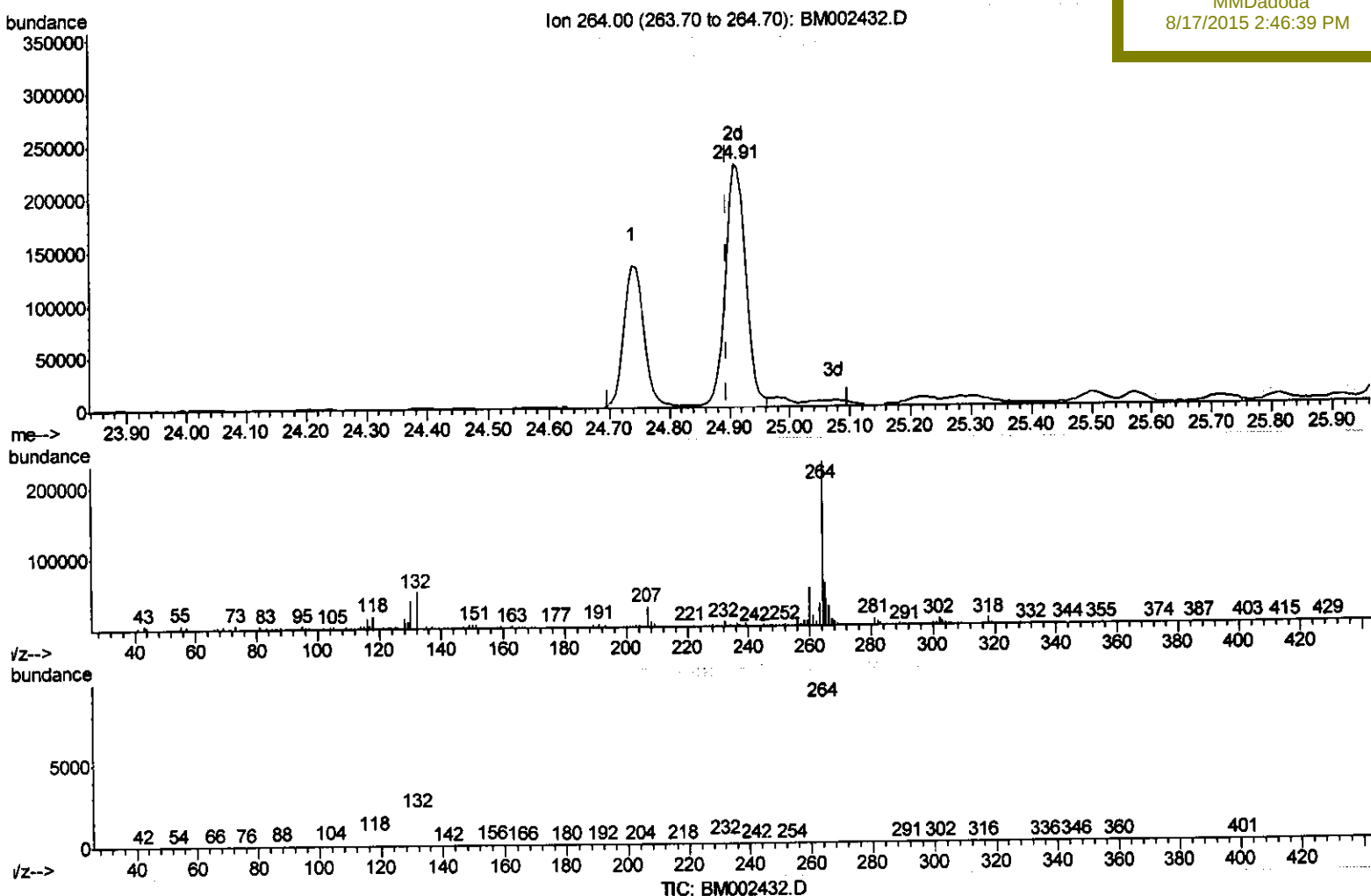
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
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 Acq On : 15 Aug 2015 19:37
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 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:18:00 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
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Manual Integrations
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(22) Perylene-d12 (I)

24.909min (+0.012) 20.00ng/ul m

response 550924

Ion	Exp%	Act%
264.00	100	100
260.00	23.60	23.13
265.00	21.40	26.08#
0.00	0.00	0.00

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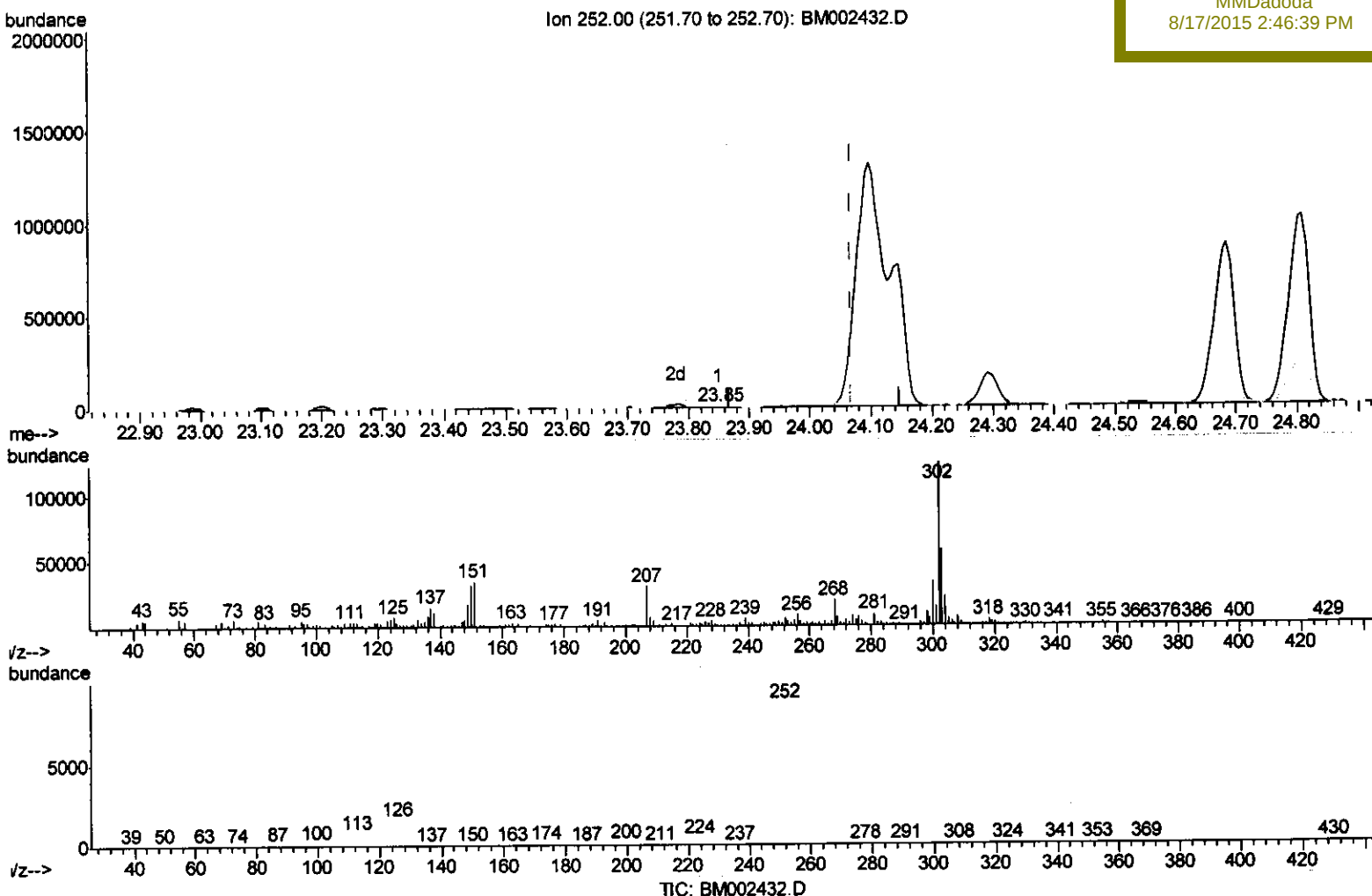
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:43:10 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 :
 D9DA4

Manual Integrations
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(23) Benzo(b)fluoranthene

23.850min (-0.218) 0.39ng/ul

response 12878

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	60.87#
125.00	12.50	122.77#
0.00	0.00	0.00

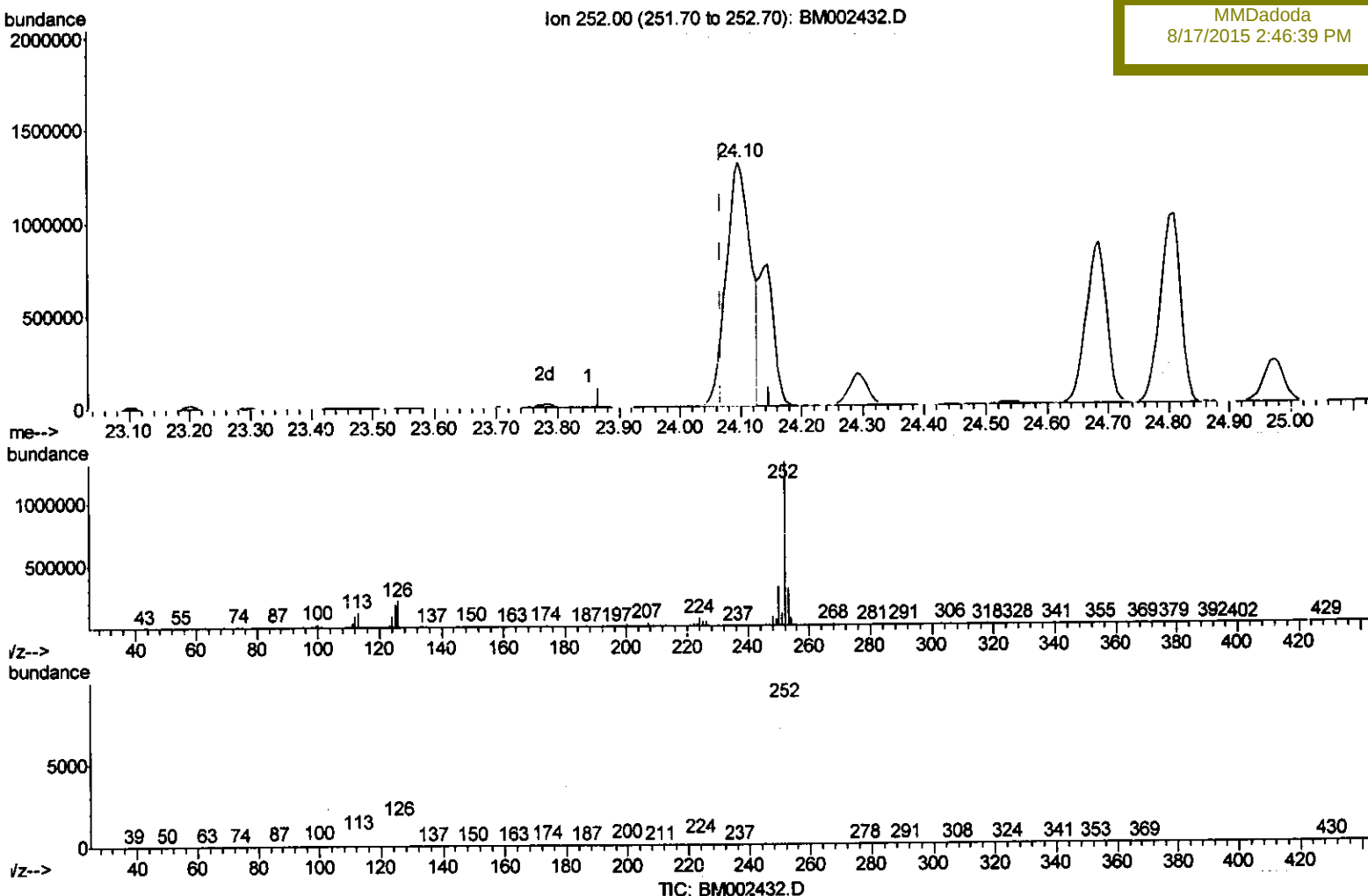
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:43:10 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
 Client Sampled :
 D9DA4

Manual Integrations
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(23) Benzo(b)fluoranthene

24.097min (+0.029) 111.57ng/ul m

response 3715866

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Ion	Exp%	Act%
252.00	100	100
253.00	21.70	22.51
125.00	12.50	13.71
0.00	0.00	0.00

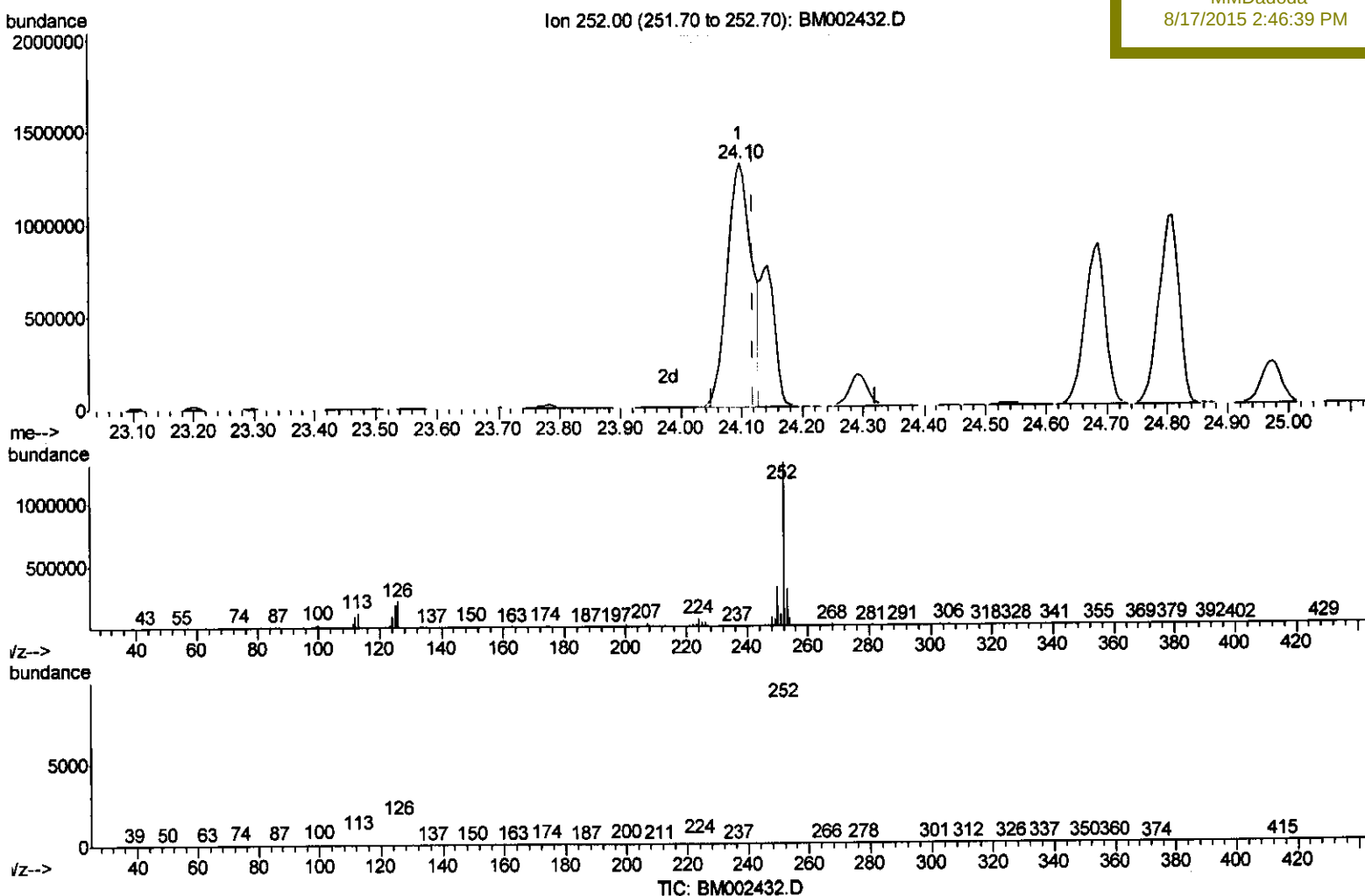
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

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 QLast Update : Mon Aug 17 05:12:59 2015
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Instrument :
 BNA_M
 ClientSampleId :
 D9DA4

Manual Integrations
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(24) Benzo(k)fluoranthene

24.097min (-0.024) 117.19ng/ul

response 3698892

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	22.51
125.00	12.30	13.71
0.00	0.00	0.00

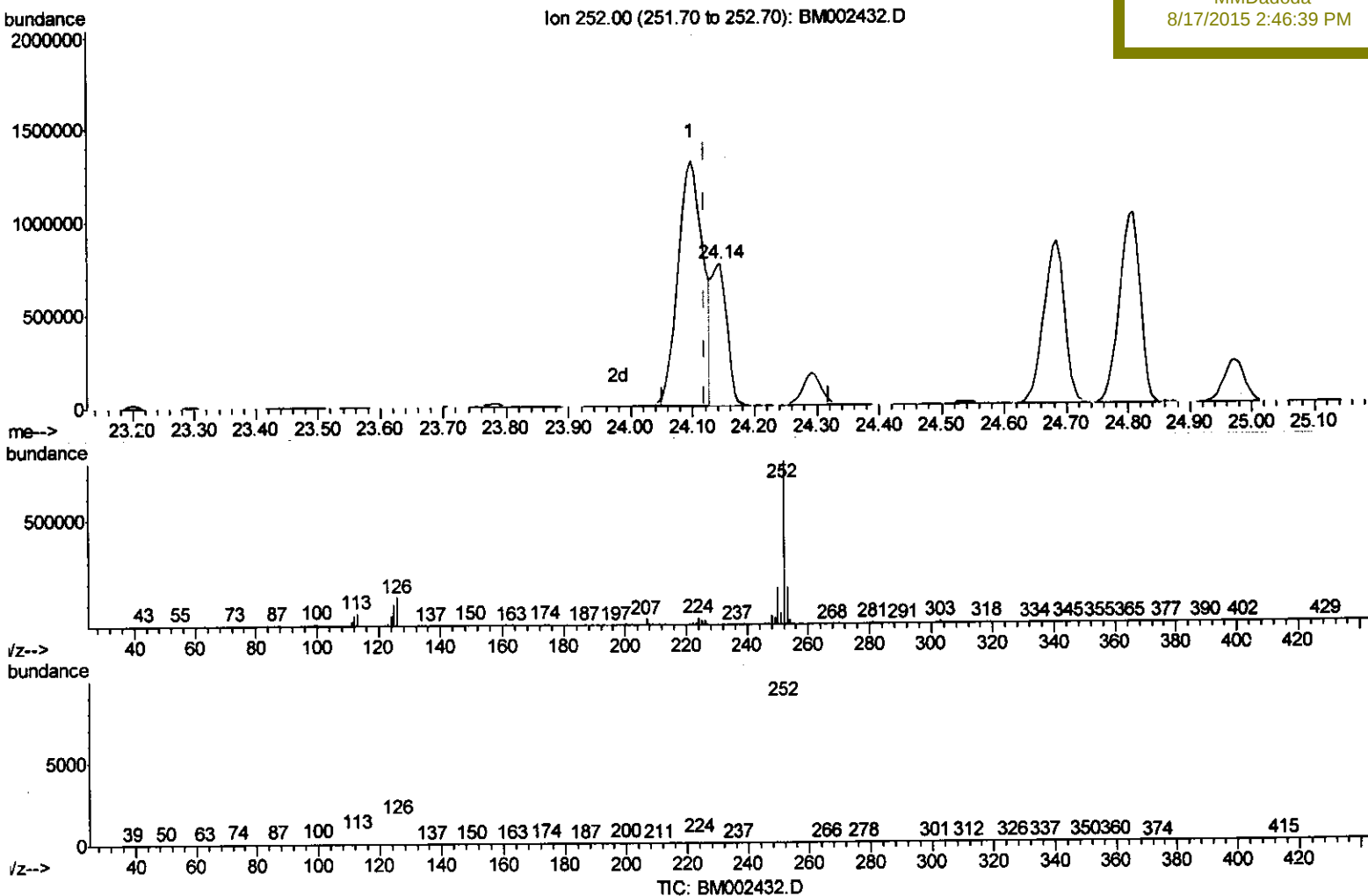
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 D9DA4

Manual Integrations
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Quant Time: Aug 17 05:43:10 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



(24) Benzo(k)fluoranthene

24.144min (+0.023) 40.03ng/ul m

response 1263547

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	22.95
125.00	12.30	12.89
0.00	0.00	0.00

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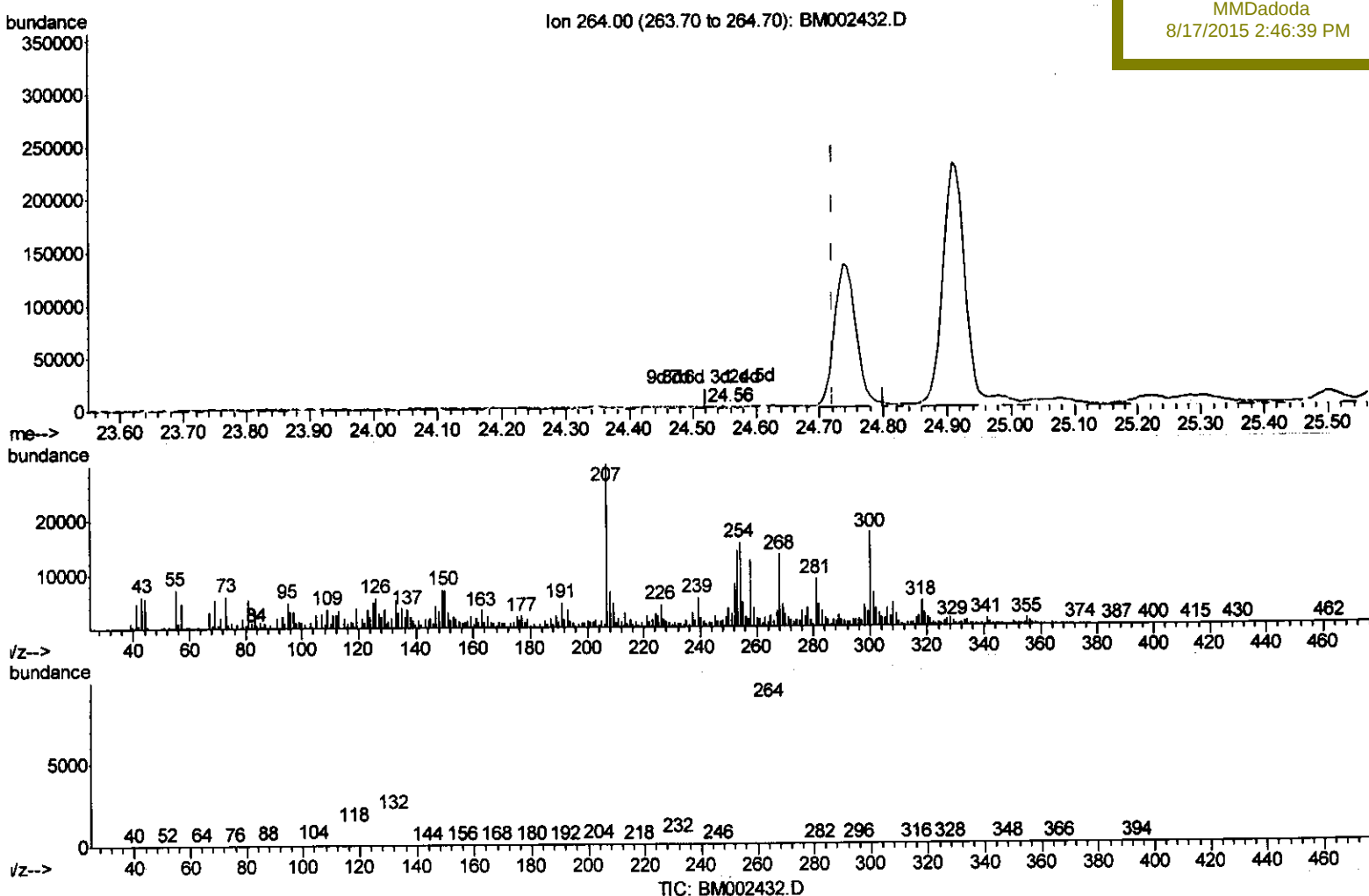
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:43:10 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 :
 D9DA4

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

24.556min (-0.165) 0.01ng/ul

response 210

Ion	Exp%	Act%
264.00	100	100
132.00	20.40	0.00#
118.00	11.60	114.67#
0.00	0.00	0.00

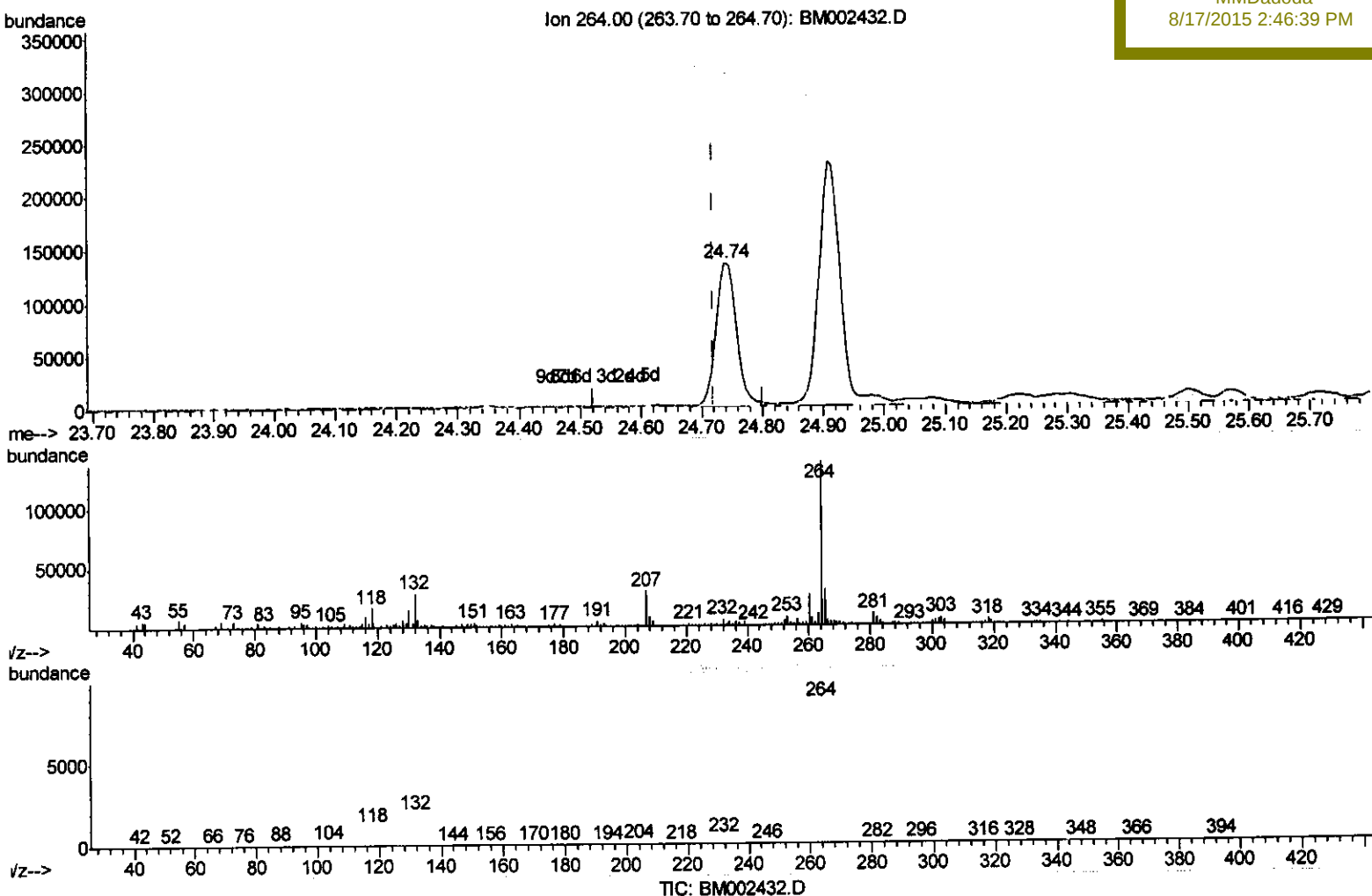
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:43:10 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 :
 D9DA4

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

24.738min (+0.018) 11.00ng/ul m

response 318302

Ion	Exp%	Act%
264.00	100	100
132.00	20.40	20.77
118.00	11.60	12.51
0.00	0.00	0.00

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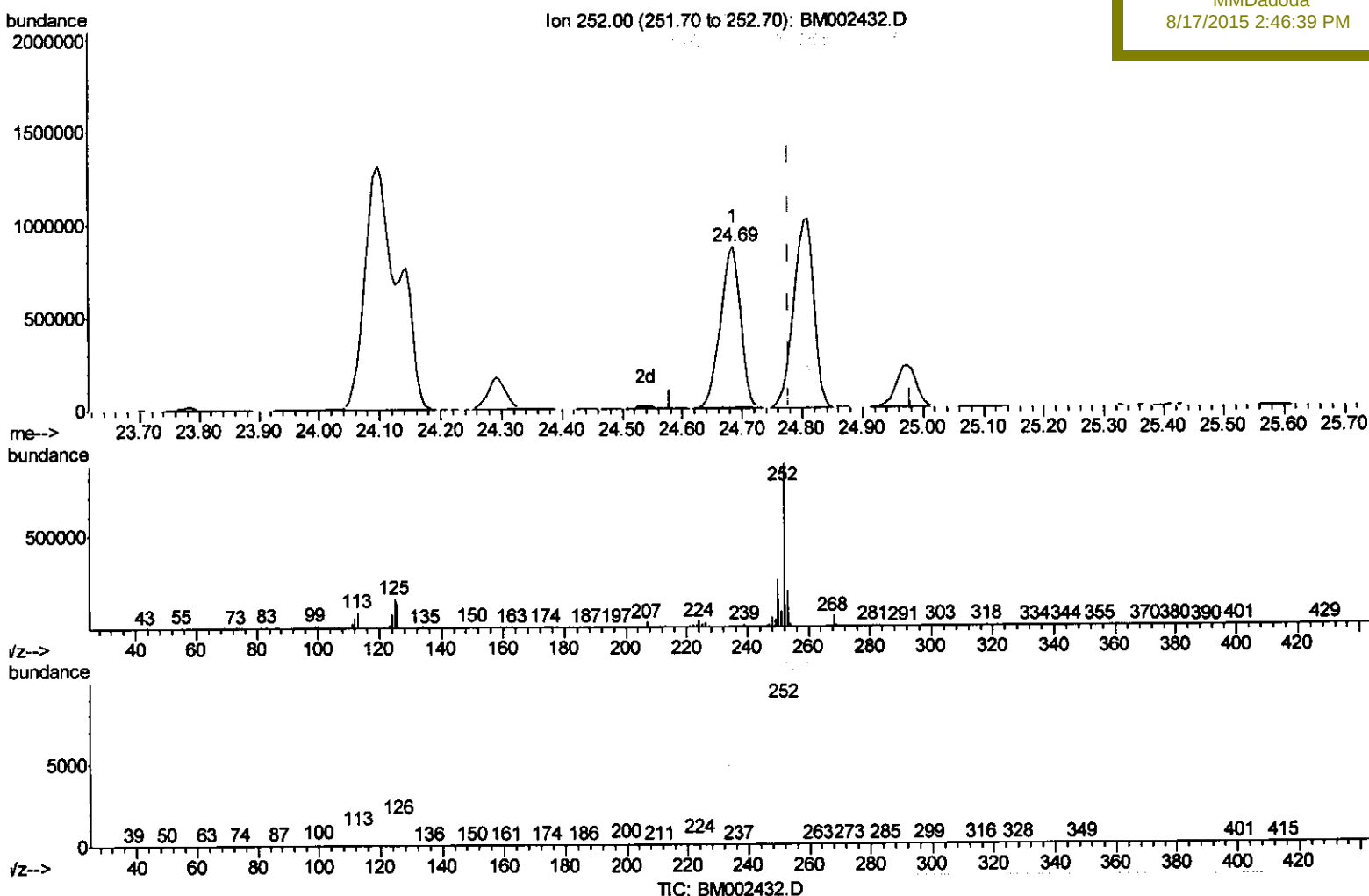
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:43:10 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 :
 D9DA4

Manual Integrations
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(26) Benzo(a)pyrene (C)

24.685min (-0.094) 64.00ng/ul

response 2036052

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.17
125.00	13.40	18.14#
0.00	0.00	0.00

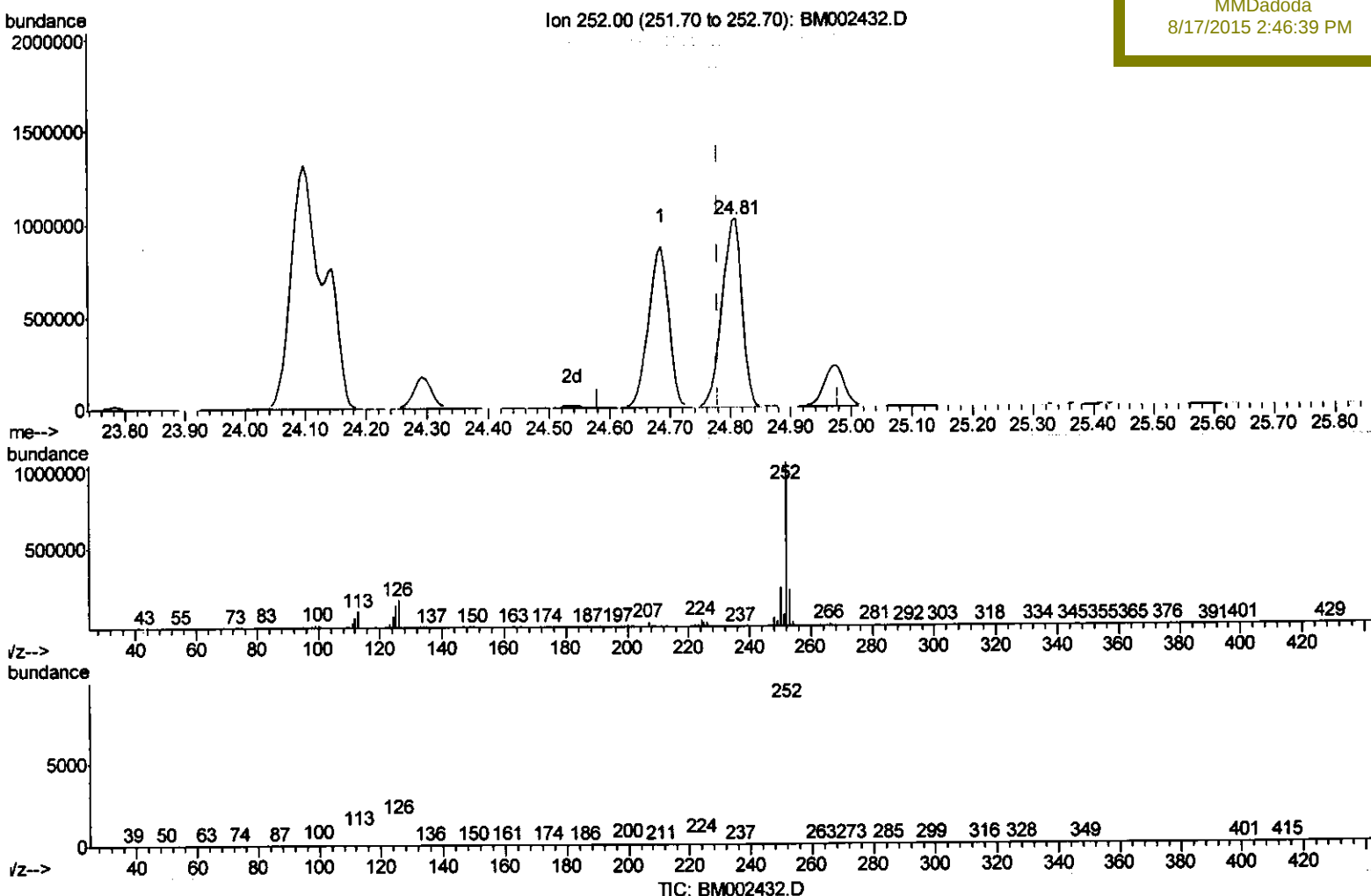
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:43:10 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 :
 D9DA4

Manual Integrations
 APPROVED

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(26) Benzo(a)pyrene (C)

24.809min (+0.029) 75.72ng/ul m

response 2408694

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.34
125.00	13.40	13.83
0.00	0.00	0.00

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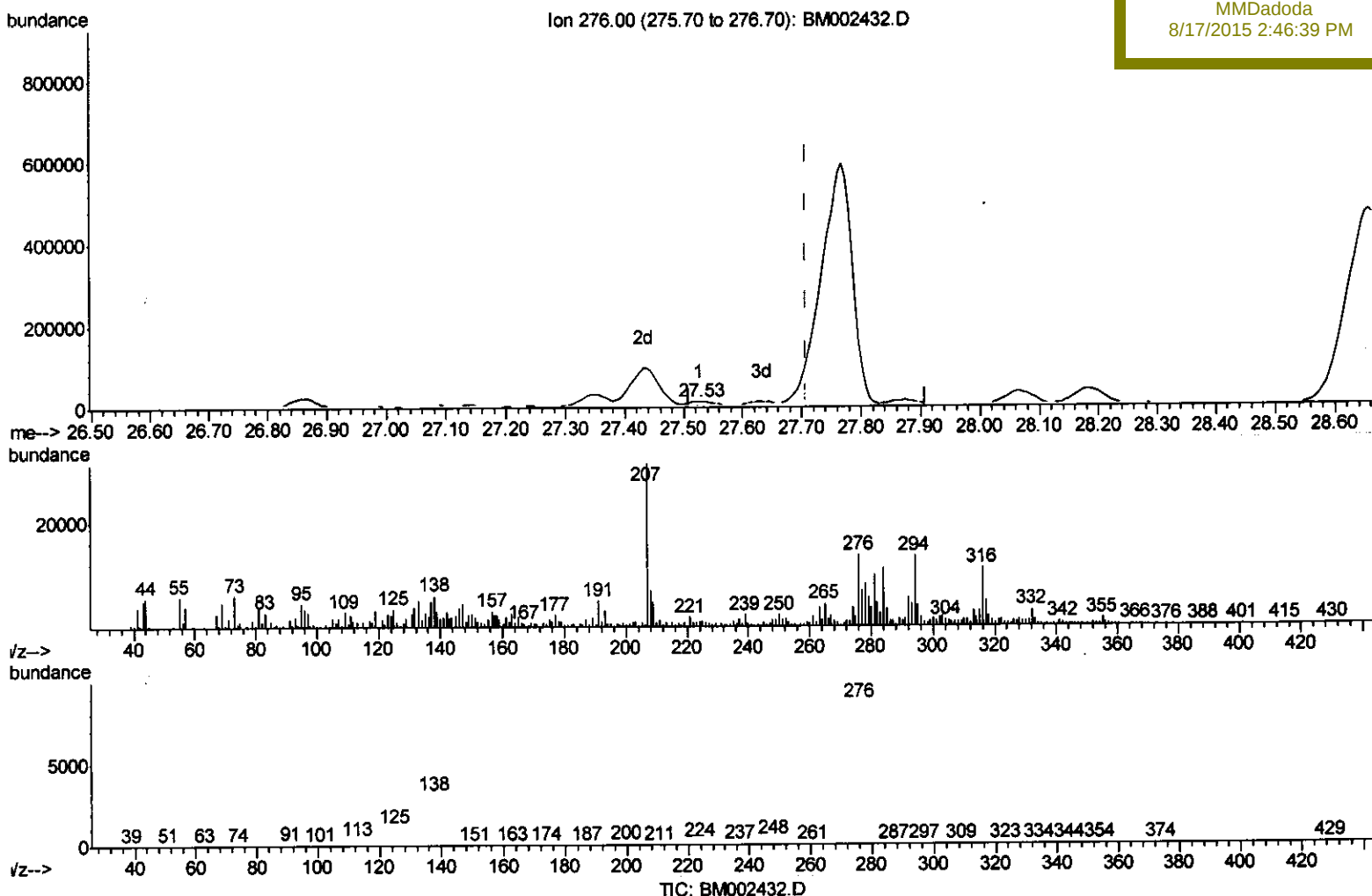
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:43:10 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 :
 D9DA4

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

27.526min (-0.182) 0.72ng/ul

response 26237

Ion	Exp%	Act%
276.00	100	100
138.00	31.60	45.73#
277.00	25.20	51.71#
0.00	0.00	0.00

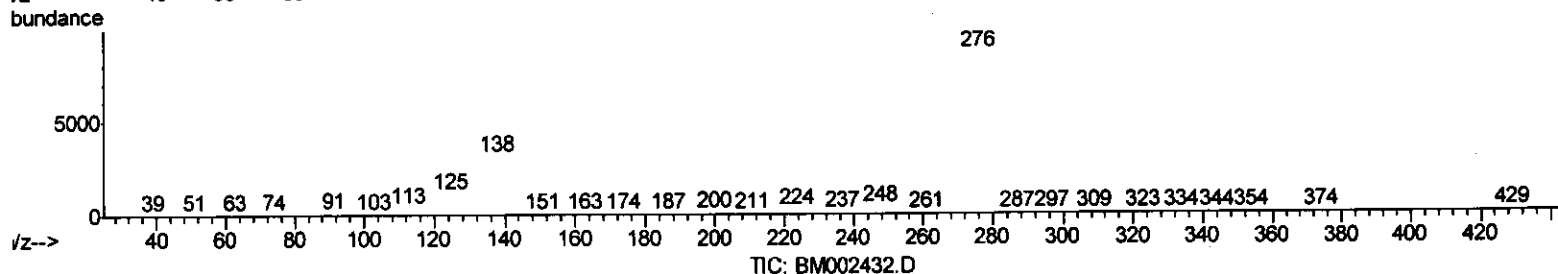
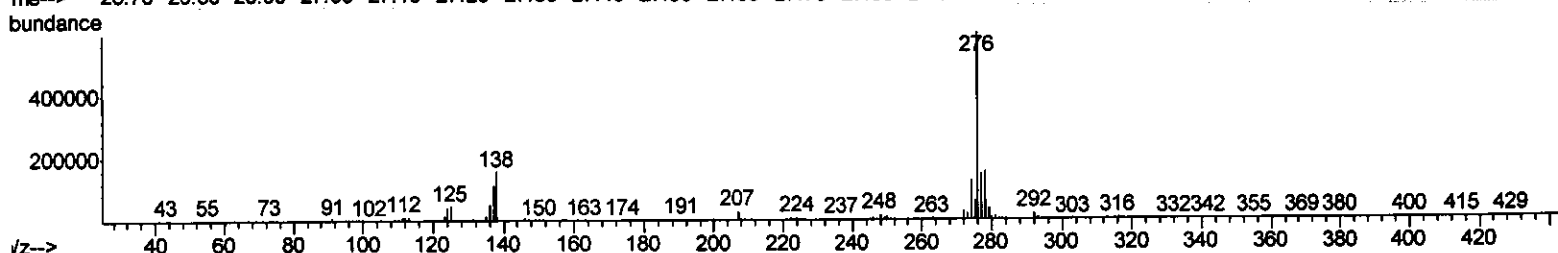
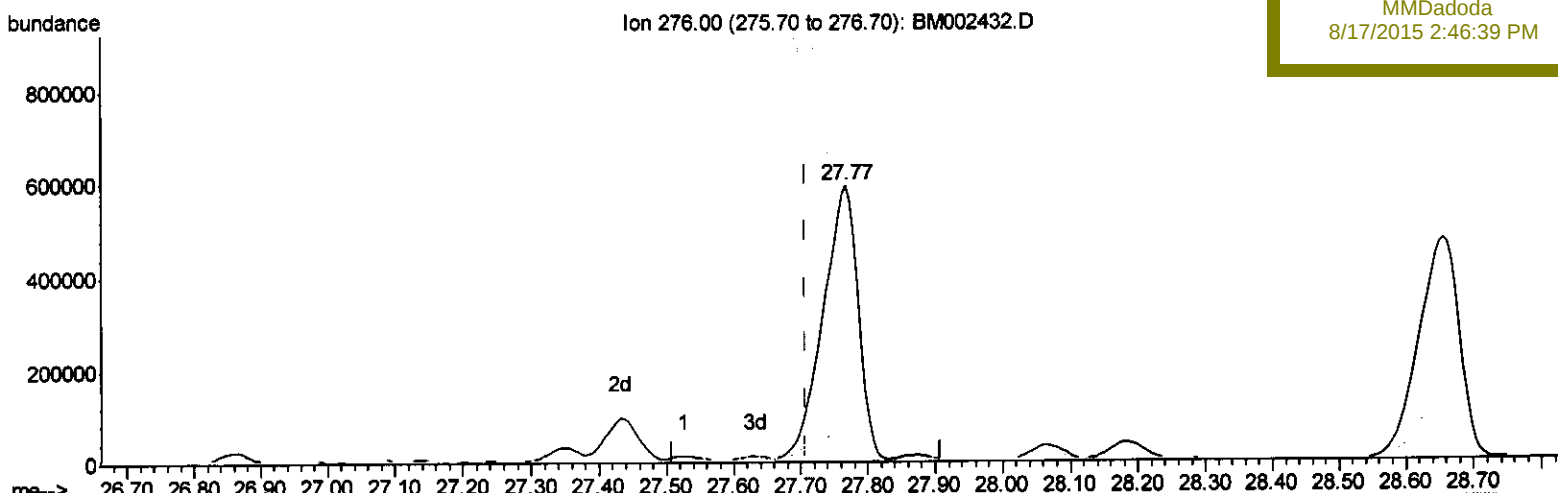
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
 Acq On : 15 Aug 2015 19:37
 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Aug 17 05:43:10 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 :
 D9DA4

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

27.767min (+0.059) 59.83ng/ul m > *U.M.*
08/18/15

response 2188901

Ion	Exp%	Act%
276.00	100	100
138.00	31.60	26.55
277.00	25.20	24.65
0.00	0.00	0.00

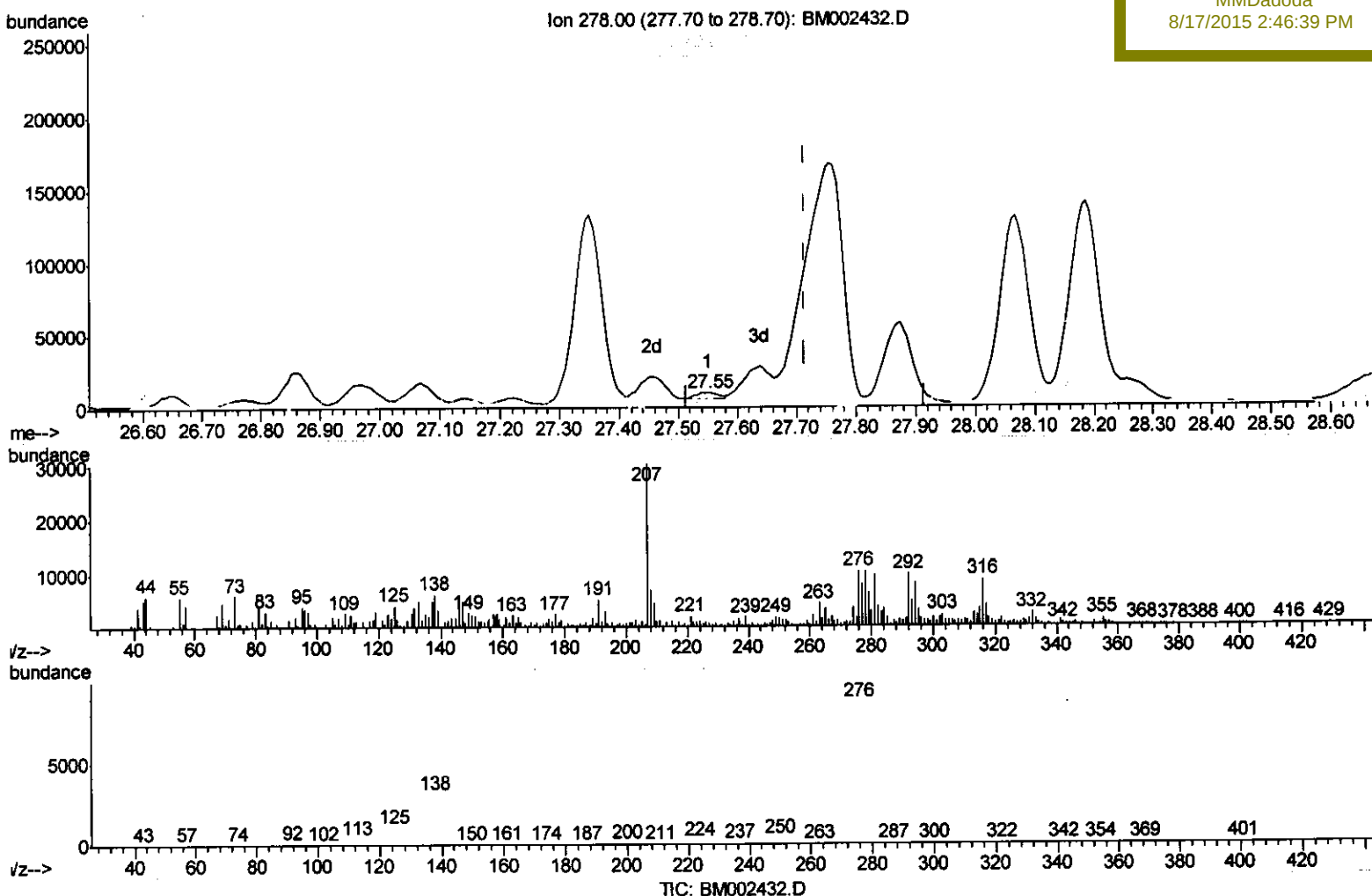
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
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 Operator : UM/IZ
 Sample : G3219-11
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

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 ClientSampleId :
 D9DA4

Manual Integrations
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(28) Dibenzo(a,h)anthracene

27.550min (-0.165) 0.39ng/ul

response 12037

Ion	Exp%	Act%
278.00	100	100
139.00	20.60	63.61#
279.00	23.50	62.08#
0.00	0.00	0.00

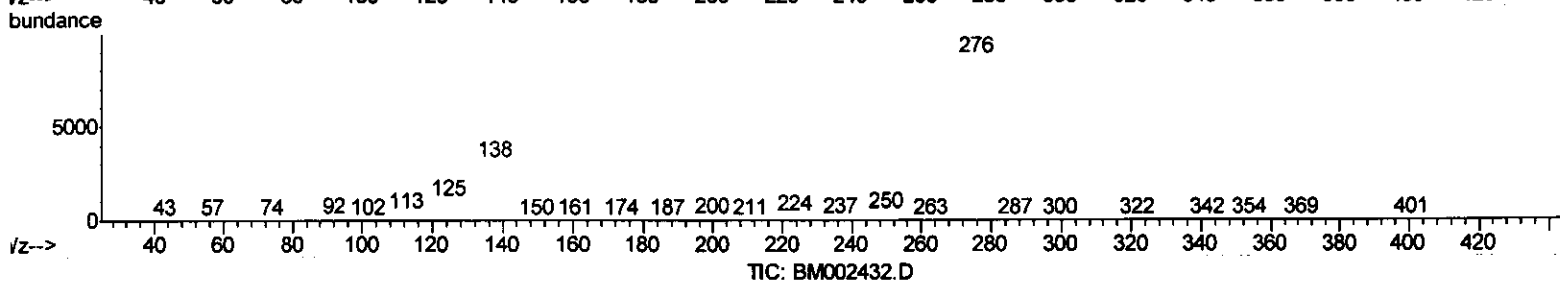
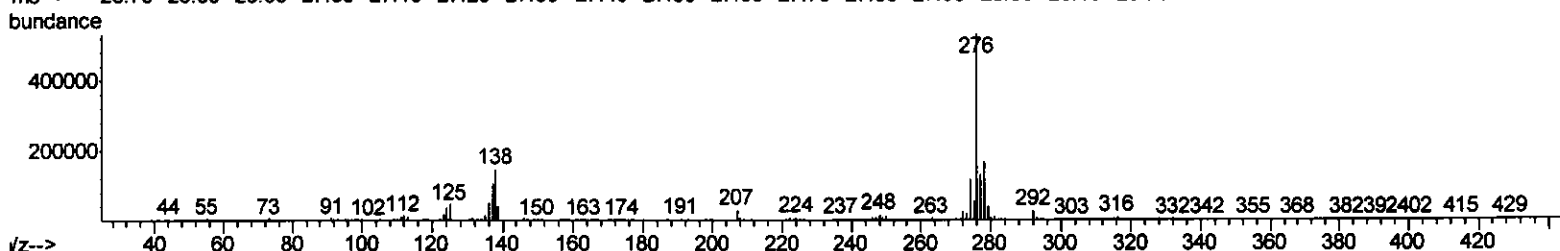
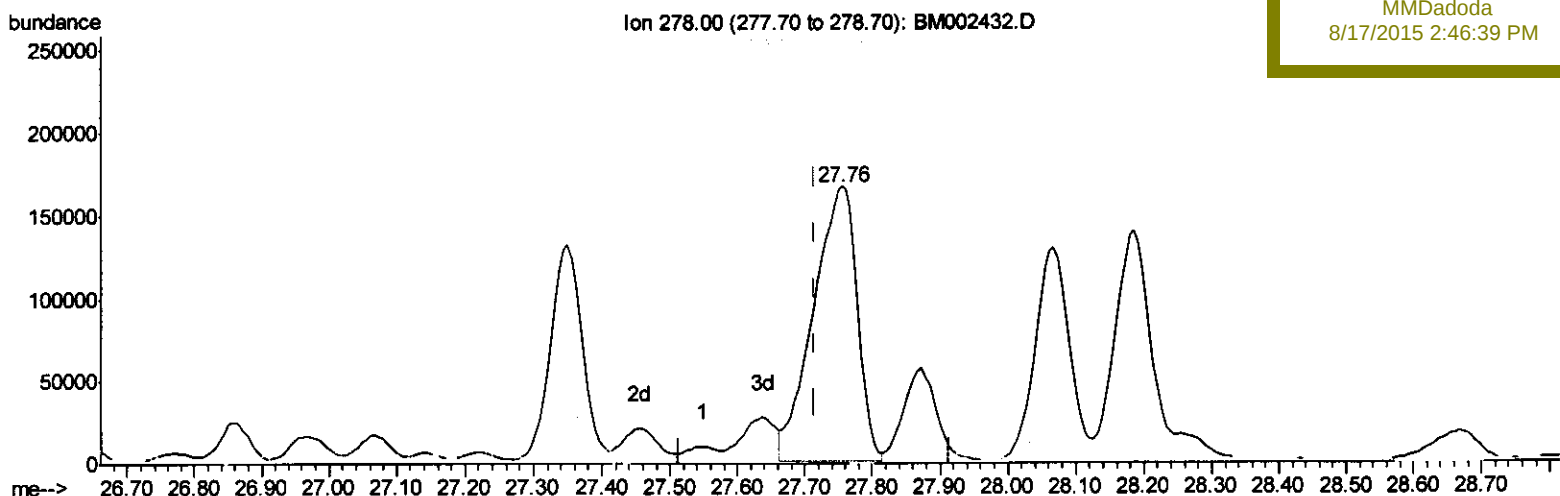
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
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 Misc :
 ALS Vial : 38 Sample Multiplier: 1

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Instrument :
 BNA_M
 ClientSampleId :
 D9DA4

Manual Integrations
 APPROVED

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(28) Dibenzo(a,h)anthracene

27.756min (+0.041) 24.67ng/ul m

response 754504

Ion	Exp%	Act%
278.00	100	100
139.00	20.60	24.29
279.00	23.50	25.07
0.00	0.00	0.00

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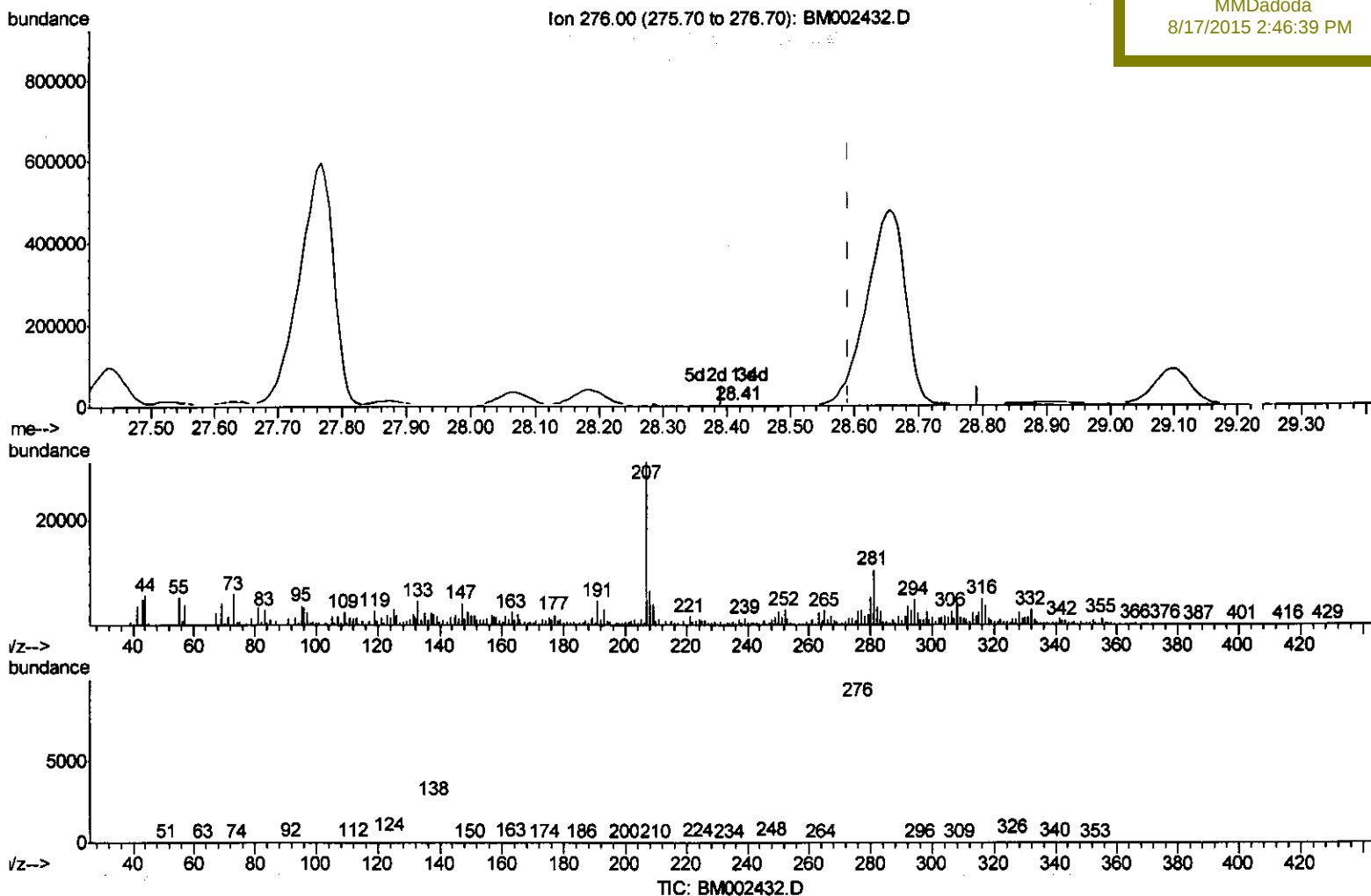
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
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 Acq On : 15 Aug 2015 19:37
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Instrument :
 BNA_M
 ClientSampleId :
 D9DA4

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

28.414min (-0.177) 0.01ng/ul

response 274

Ion	Exp%	Act%
276.00	100	100
138.00	26.30	85.48#
277.00	24.00	107.75#
0.00	0.00	0.00

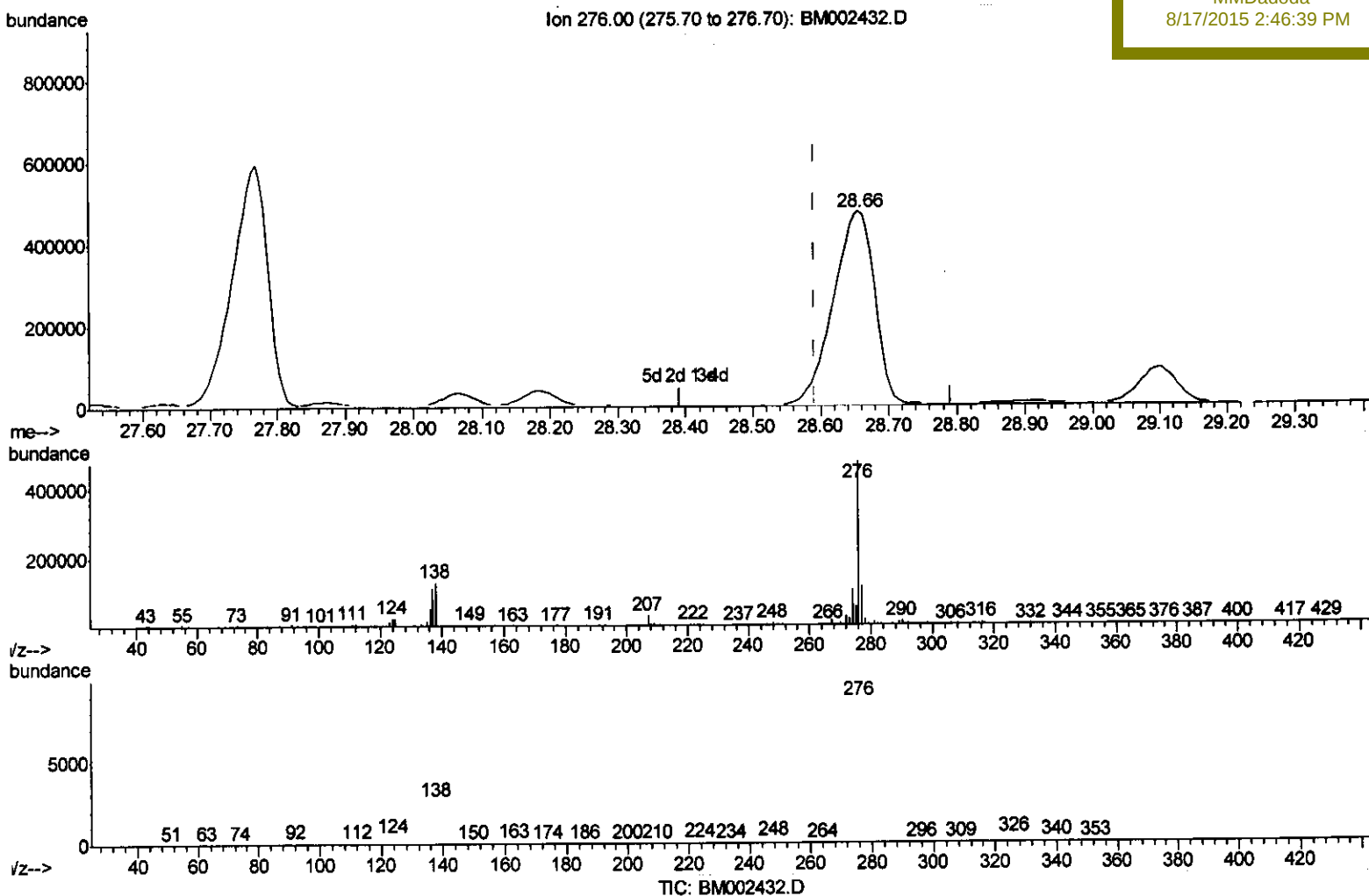
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 Data File : BM002432.D
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 Operator : UM/IZ
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 Misc :
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 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9DA4

Manual Integrations
 APPROVED

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

28.656min (+0.065) 65.93ng/ul m

response 2007839

Ion	Exp%	Act%
276.00	100	100
138.00	26.30	27.02
277.00	24.00	23.98
0.00	0.00	0.00

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Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
 Data File : BM002432.D
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Instrument :
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 D9DA4

Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.87	152	174470	20.00	ng/ul	0.00
2) Naphthalene-d8	11.74	136	790605	20.00	ng/ul	0.00
6) Acenaphthene-d10	15.45	164	424685	20.00	ng/ul	0.00
12) Phenanthrene-d10	18.16	188	833962	20.00	ng/ul	0.00
17) Chrysene-d12	22.24	240	551490	20.00	ng/ul	0.00
22) Perylene-d12	24.91	264	550924m	20.00	ng/ul	0.01

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System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
7) Acenaphthylene-d8	15.16	160	582407	13.41	ng/ul	0.00
10) Fluorene-d10	16.42	176	386373	12.67	ng/ul	0.00
14) Anthracene-d10	18.26	188	517772	12.87	ng/ul	0.00
18) Pvrene-d10	20.47	212	419718	17.17	ng/ul	0.00
25) Benzo(a)pyrene-d12	24.74	264	318302m	11.00	ng/ul	0.02

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Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Phenanthrene	18.20	178	328395	6.82	ng/ul	100
15) Anthracene	18.29	178	66962	1.37	ng/ul	99
16) Fluoranthene	20.14	202	1307053	23.97	ng/ul	99
19) Pyrene	20.50	202	1285755	39.80	ng/ul	99
20) Benzo(a)anthracene	22.22	228	1520217	46.10	ng/ul	99
21) Chrysene	22.28	228	1822338	59.08	ng/ul	97
23) Benzo(b)fluoranthene	24.10	252	3715866m	111.57	ng/ul	
24) Benzo(k)fluoranthene	24.14	252	1263547m	40.03	ng/ul	
26) Benzo(a)pvrene	24.81	252	2408694m	75.72	ng/ul	
27) Indeno(1,2,3-cd)pvrene	27.77	276	2188901m	59.83	ng/ul	
28) Dibenzo(a,h)anthracene	27.76	278	754504m	24.67	ng/ul	
29) Benzo(a,h,i)perylene	28.66	276	2007839m	65.93	ng/ul	

U.M.
 08/18/15

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