

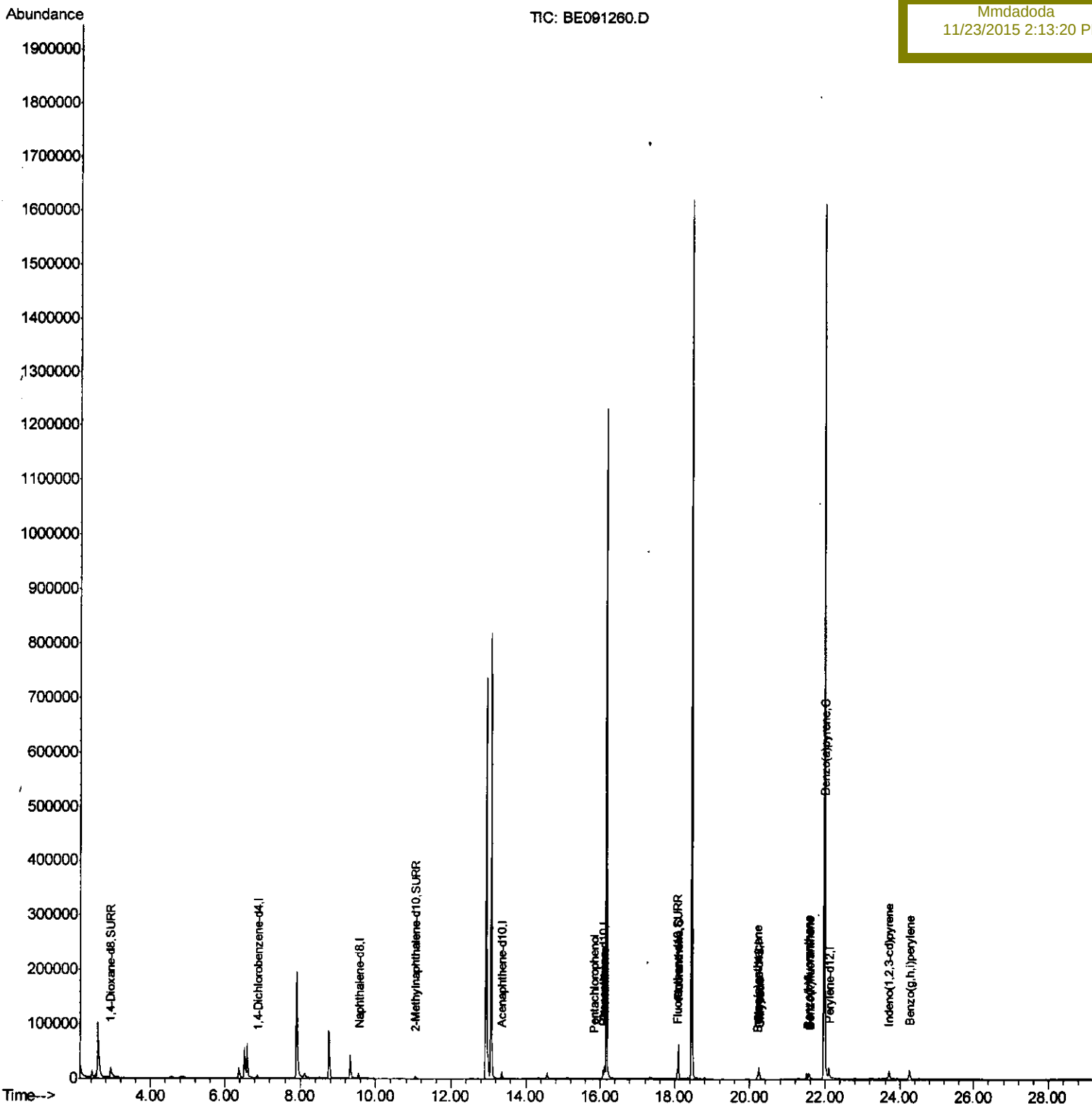
Data Path : Z:\HPCHEM1\BNA E\Data\BE112115\
Data File : BE091260.D
Acq On : 21 Nov 2015 1:26
Operator : UM/NP
Sample : G4310-16
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 23 09:46:37 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 04:53:50 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
D9KN1

Manual Integrations
APPROVED

Mmdadoda
11/23/2015 2:13:20 PM



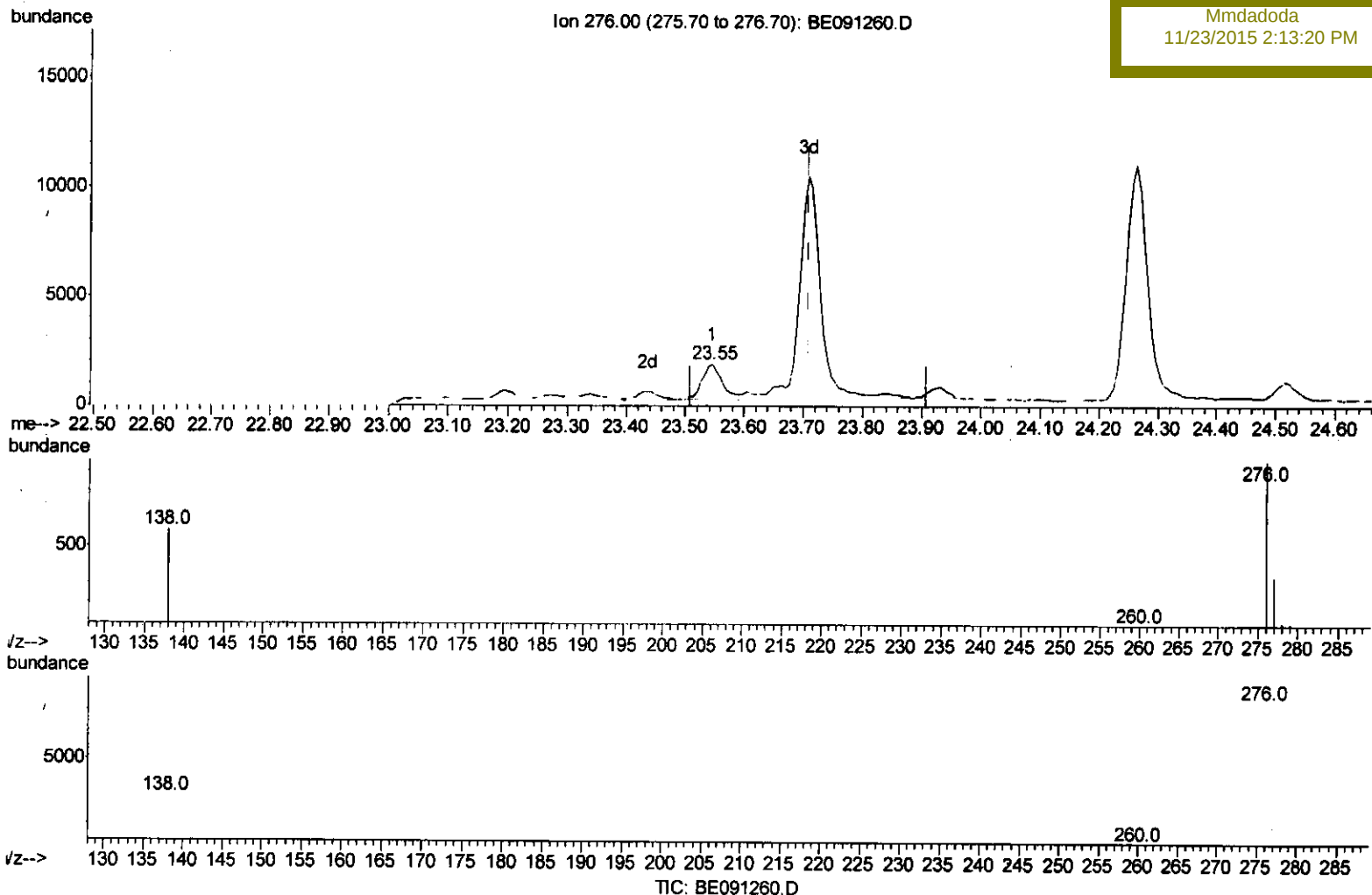
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:02:20 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

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 11/23/2015 2:13:20 PM



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

23.546min (-0.164) 0.02ng/ul

response 3741

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	22.77#
277.00	24.10	24.08
0.00	0.00	0.00

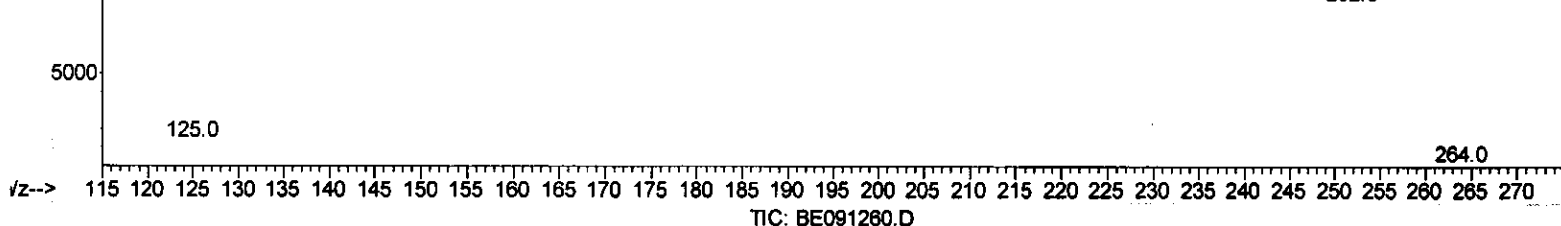
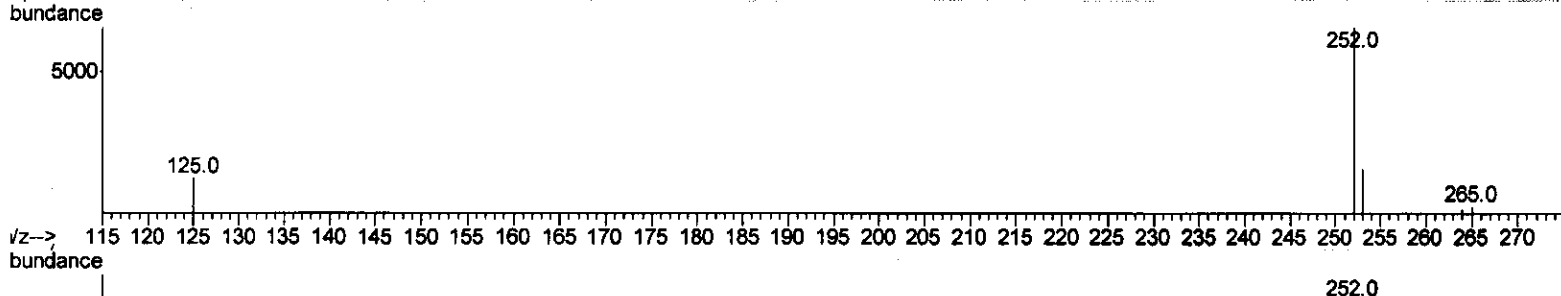
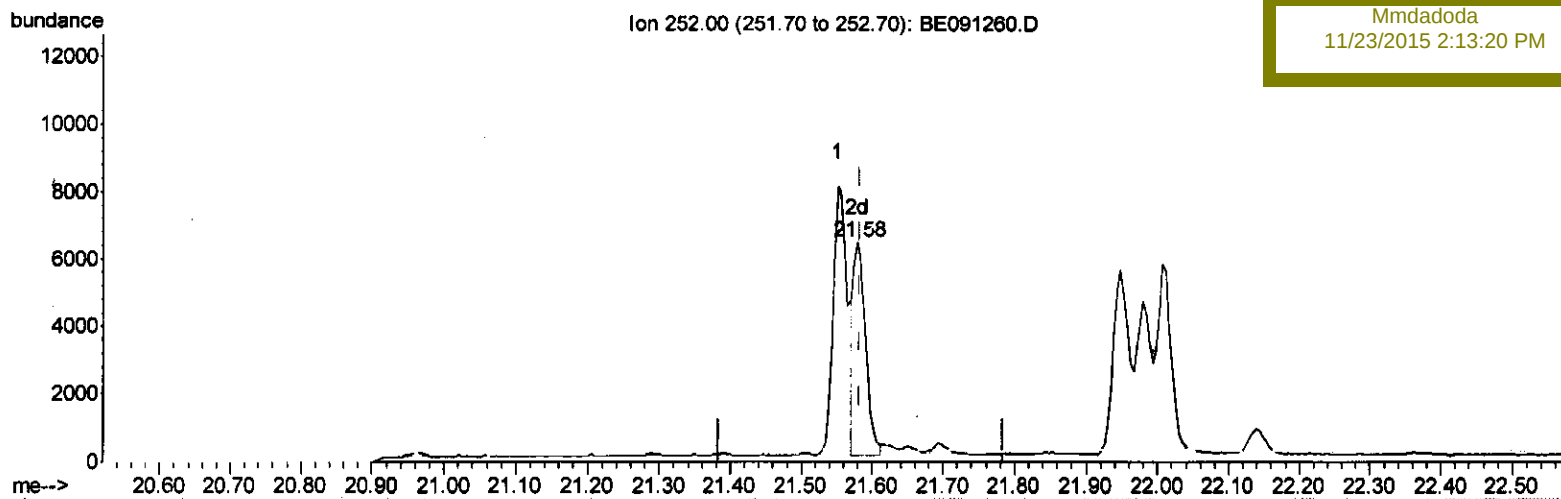
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:02:20 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

Mmdadoda
 11/23/2015 2:13:20 PM



(24) Benzo(k)fluoranthene

21.579min (-0.005) 0.13ng/ul m

response 7464

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	25.39
125.00	15.30	20.38#
0.00	0.00	0.00

Handwritten: 20.11
 25/11/15

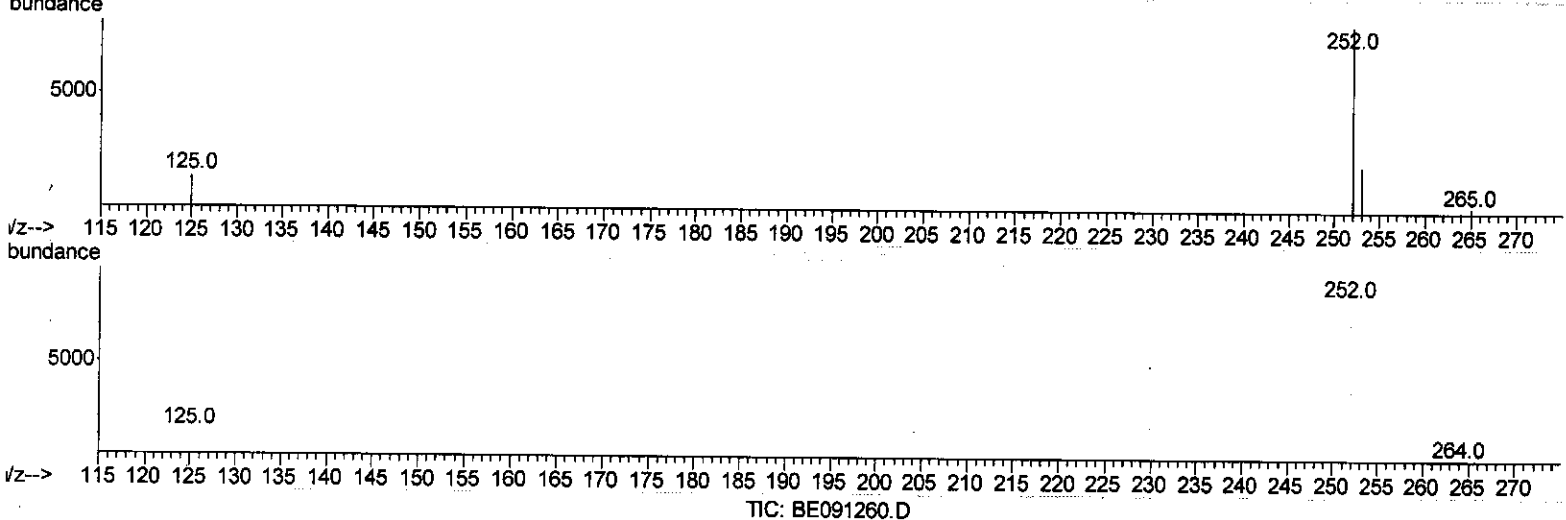
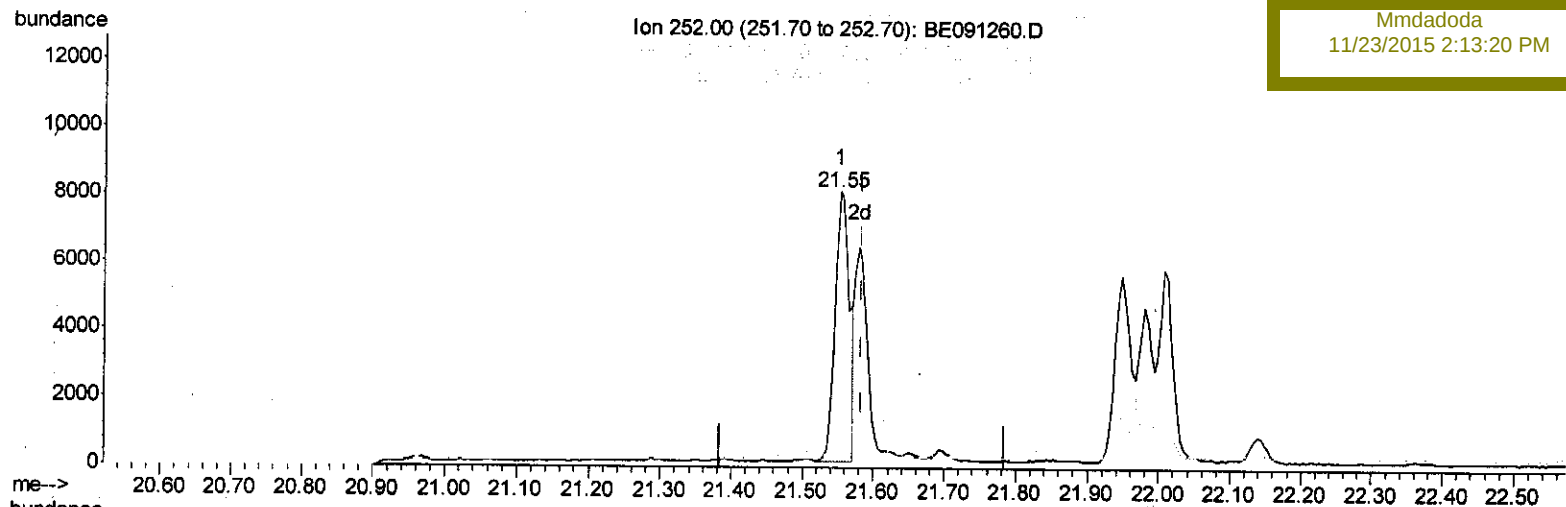
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:02:20 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

Mmdadoda
 11/23/2015 2:13:20 PM



(24) Benzo(k)fluoranthene

21.552min (-0.032) 0.20ng/ul

response 11331

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	25.29
125.00	15.30	17.65
0.00	0.00	0.00

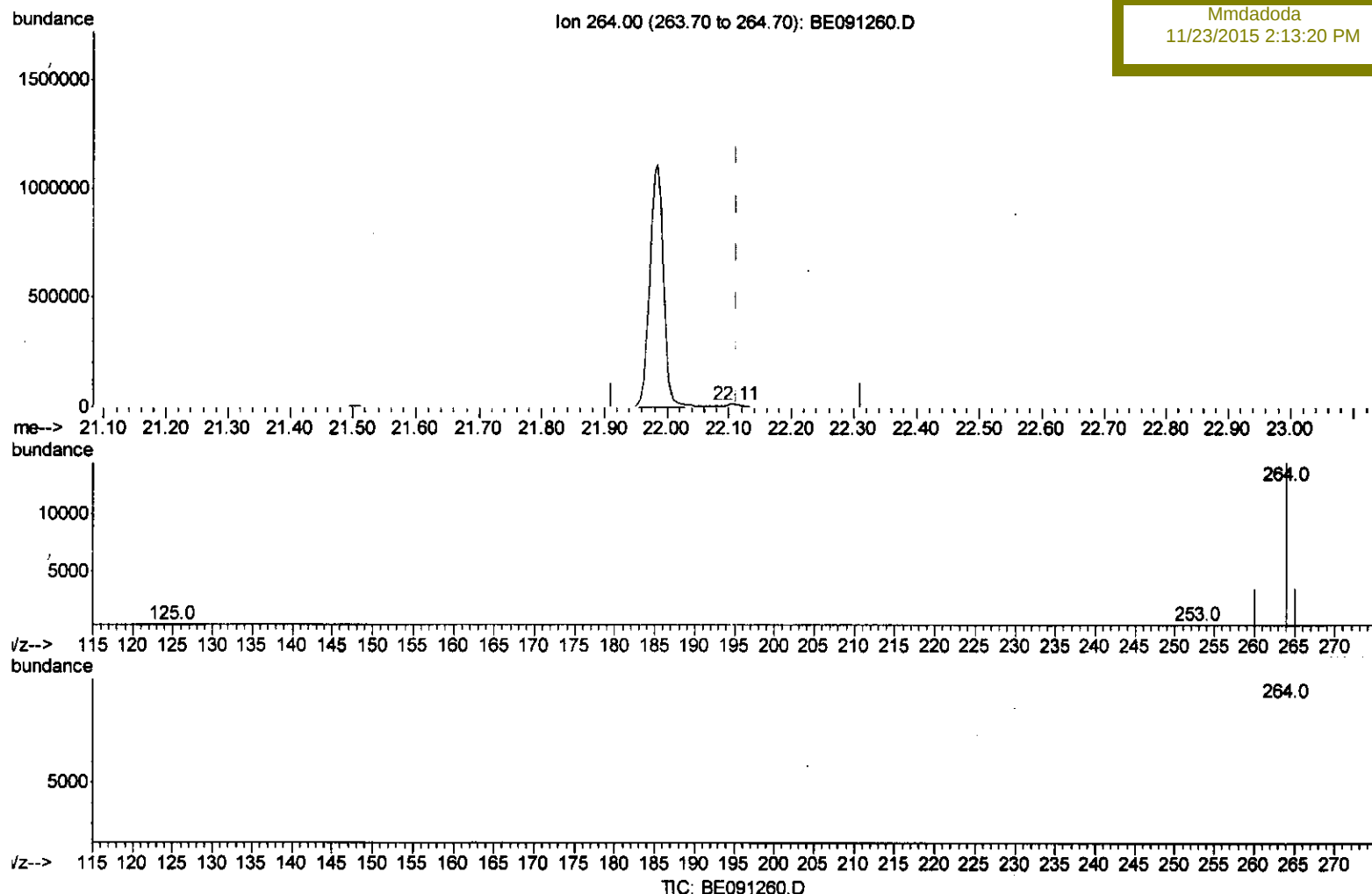
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:01:08 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

Mmdadoda
 11/23/2015 2:13:20 PM



(22) Perylene-d12 (I)

22.108min (-0.005) 0.40ng/ul m

response 17642

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	24.43
265.00	34.70	24.28#
0.00	0.00	0.00

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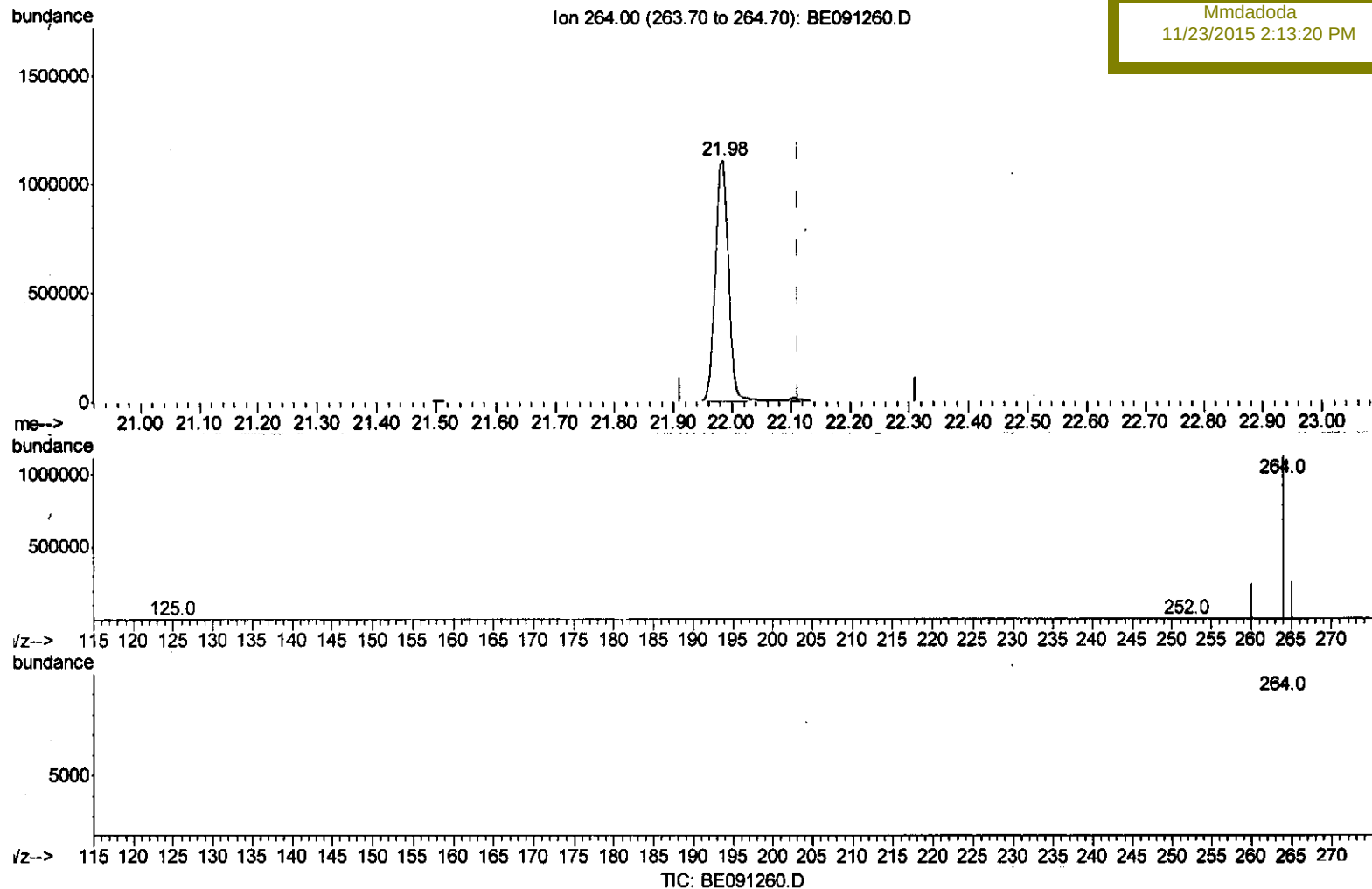
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:01:08 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

Mmdadoda
 11/23/2015 2:13:20 PM



(22) Perylene-d12 (I)

21.985min (-0.128) 0.40ng/ul

response 1715049

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	21.52#
265.00	34.70	22.86#
0.00	0.00	0.00

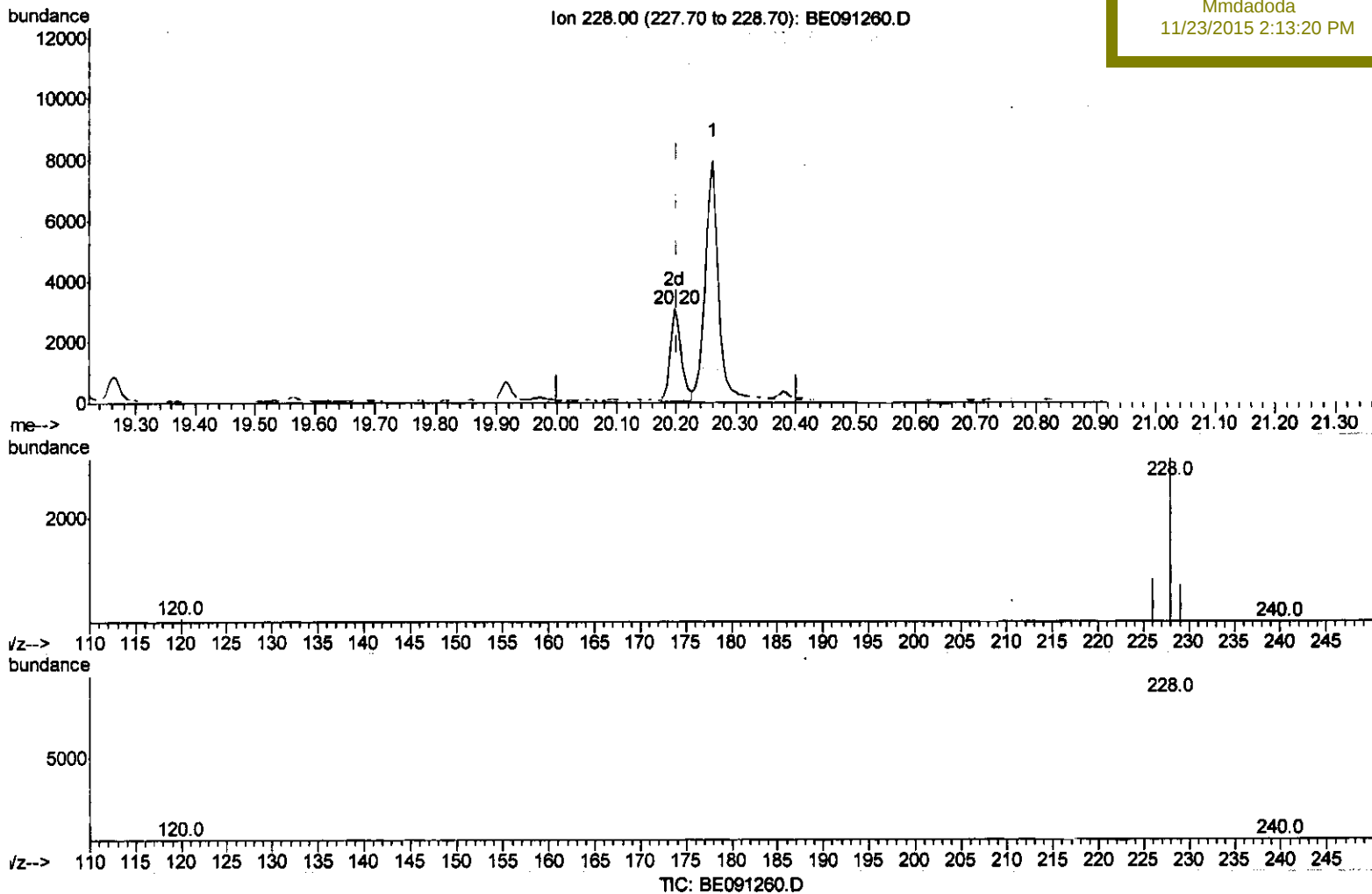
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:01:08 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

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 11/23/2015 2:13:20 PM



(20) Benzo(a)anthracene

20.197min (-0.005) 0.08ng/ul m

response 3848

Ion	Exp%	Act%
228.00	100	100
226.00	28.70	27.89
229.00	19.00	25.20#
0.00	0.00	0.00

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 25/11/15

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acc On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

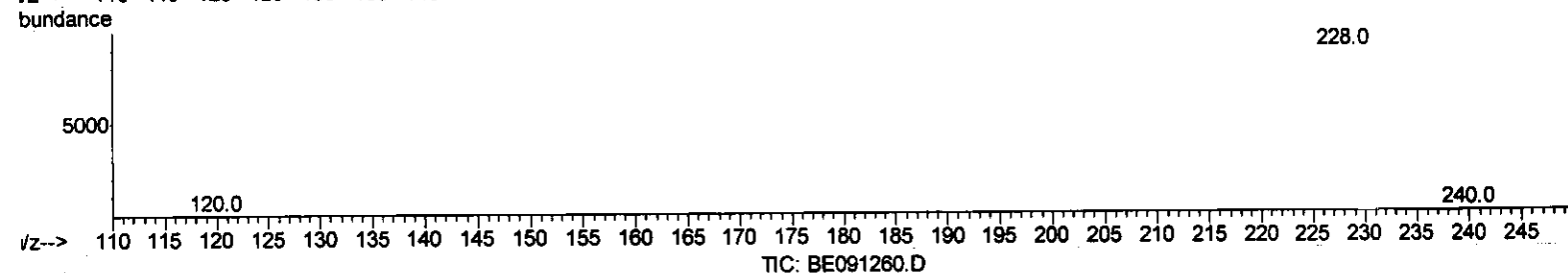
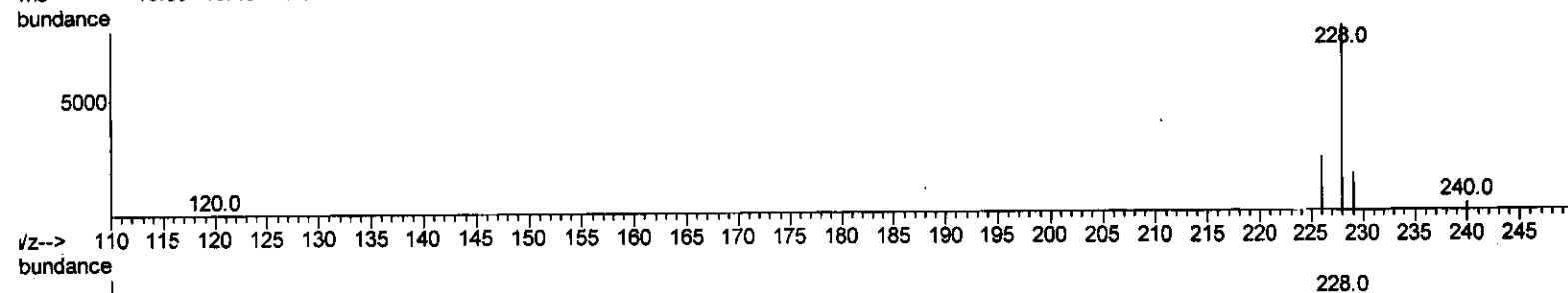
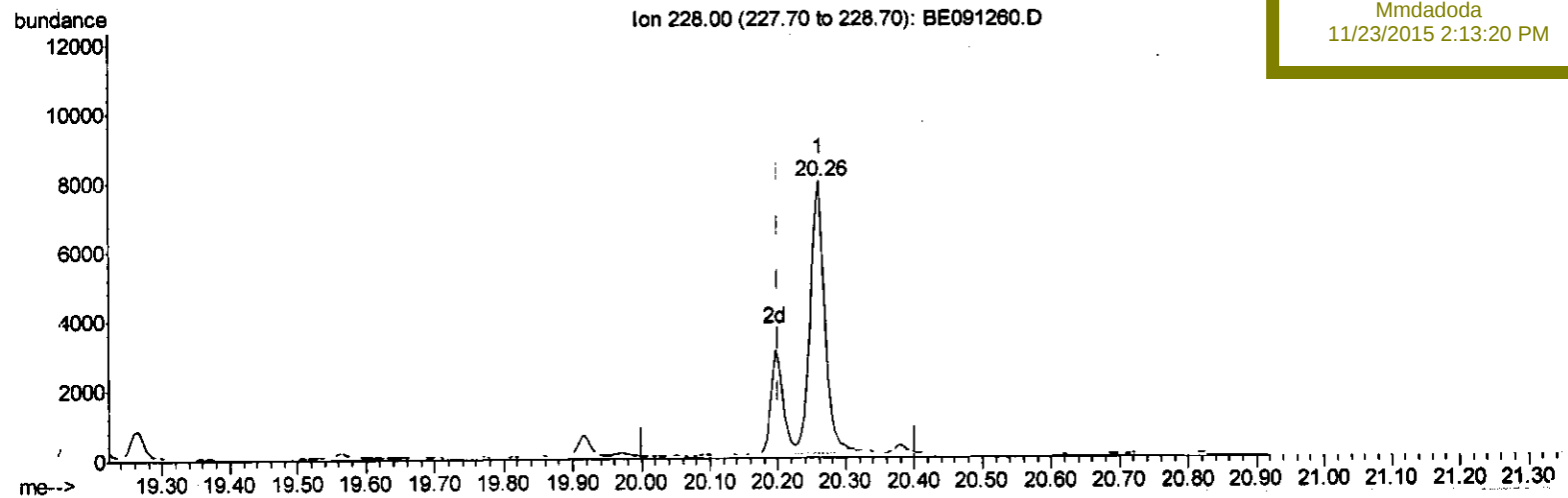
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 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
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 11/23/2015 2:13:20 PM

Ion 228.00 (227.70 to 228.70): BE091260.D



(20) Benzo(a)anthracene

20.261min (+0.059) 0.24ng/ul

response 11885

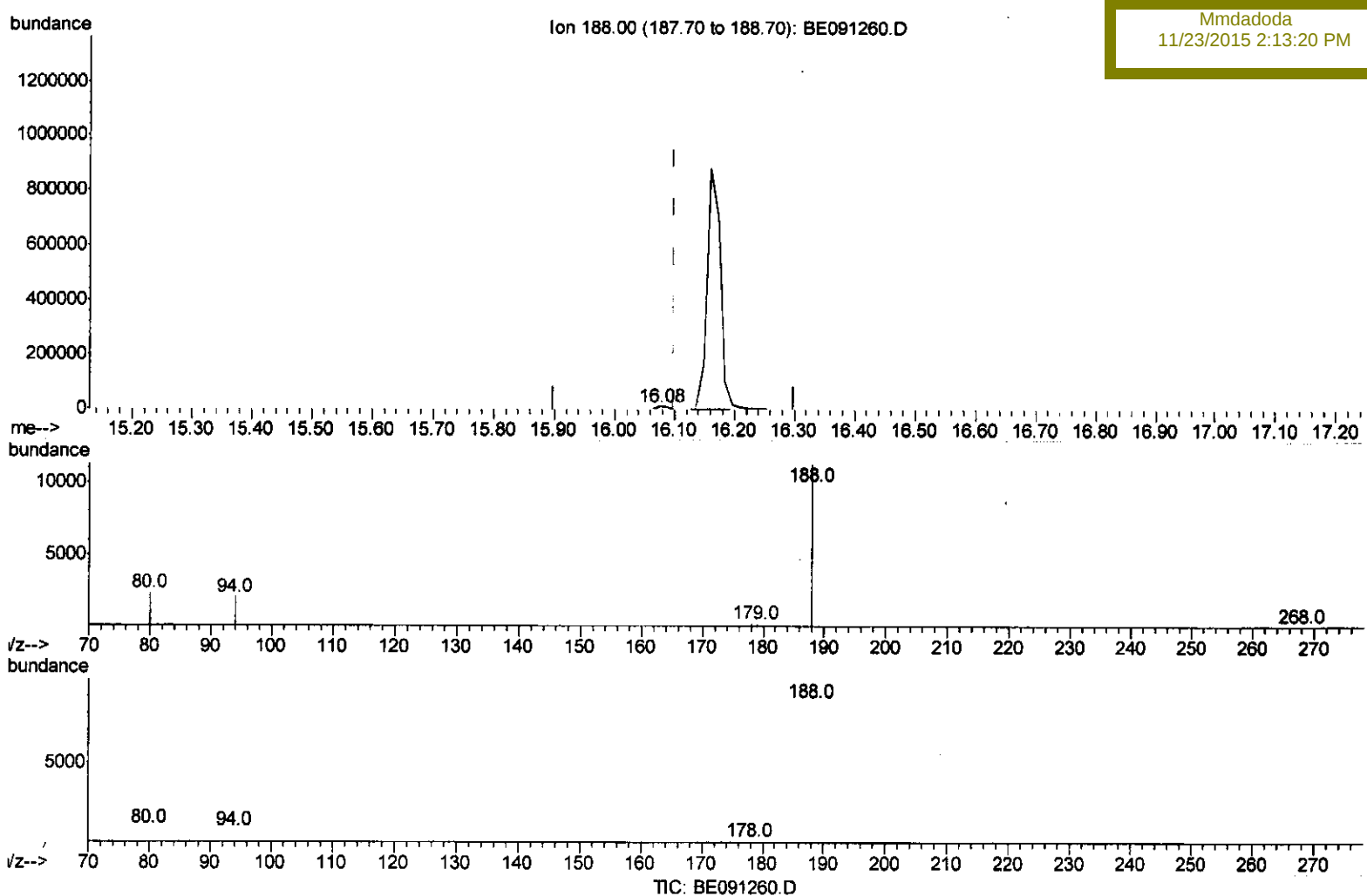
Ion	Exp%	Act%
228.00	100	100
226.00	28.70	30.56
229.00	19.00	21.68
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 04:55:29 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED
 Mmdadoda
 11/23/2015 2:13:20 PM



(12) Phenanthrene-d10 (I)

16.076min (-0.024) 0.40ng/ul m *> U.M*
25/11/15

response 17345

Ion	Exp%	Act%
188.00	100	100
94.00	9.00	17.99#
80.00	8.90	20.50#
0.00	0.00	0.00

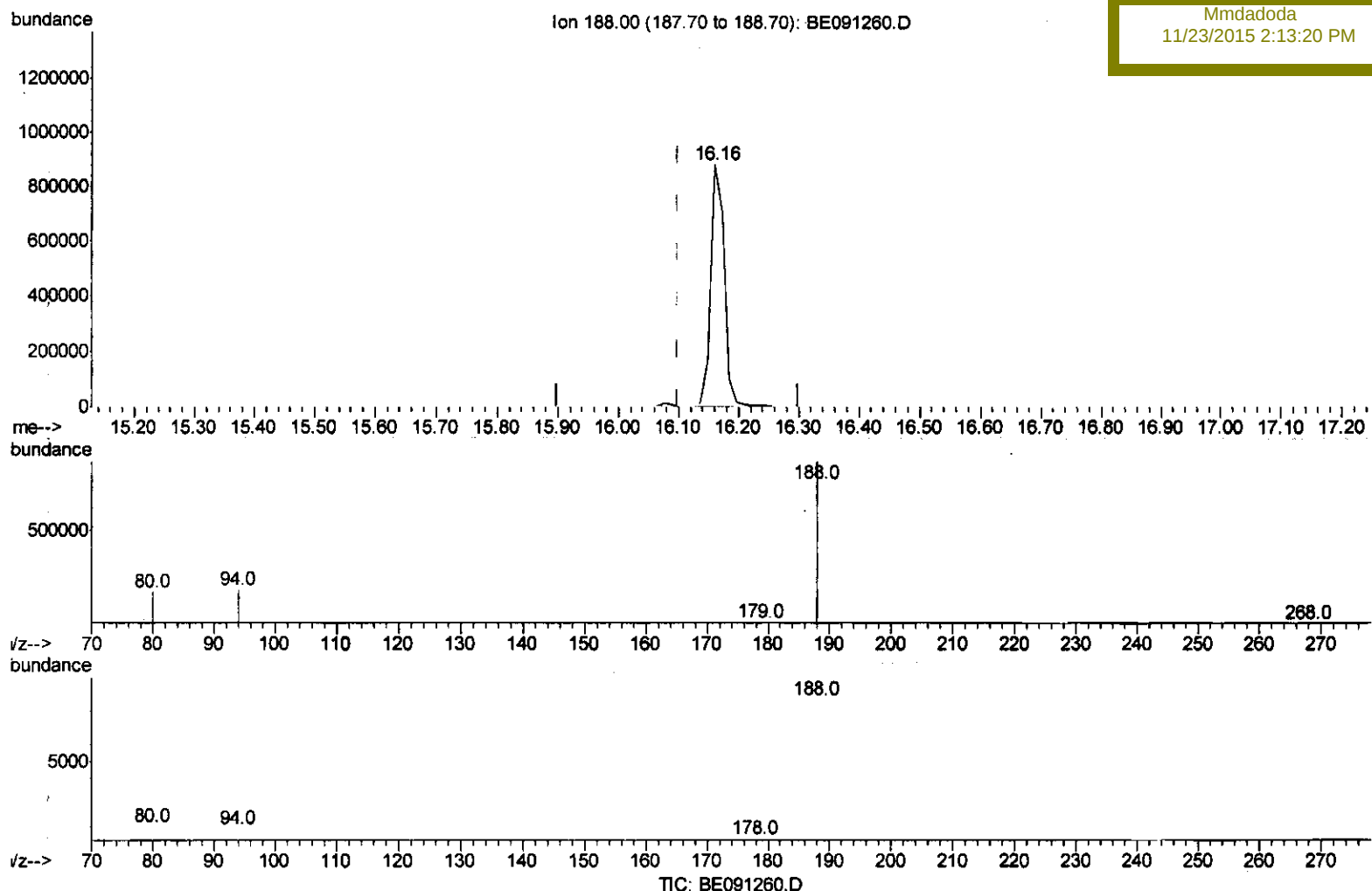
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acc On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 04:55:29 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

Mmdadoda
 11/23/2015 2:13:20 PM



(12) Phenanthrene-d10 (I)

16.160min (+0.061) 0.40ng/ul

response 1373811

Ion	Exp%	Act%
188.00	100	100
94.00	9.00	20.03#
80.00	8.90	19.10#
0.00	0.00	0.00

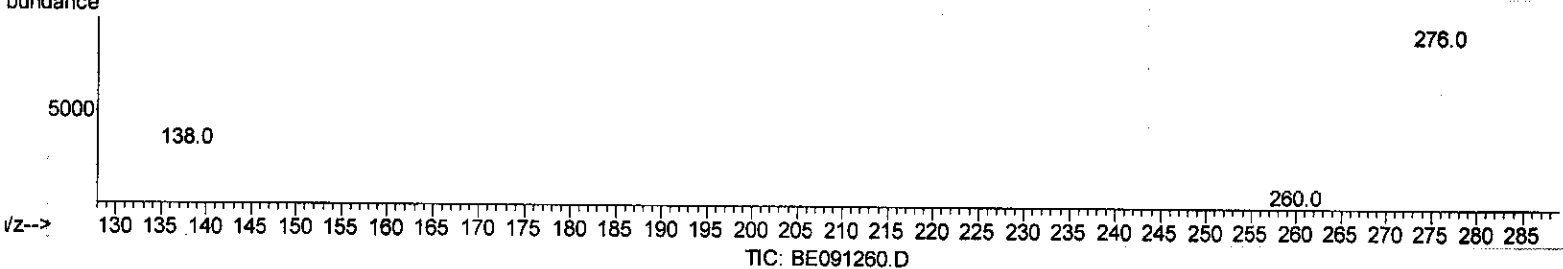
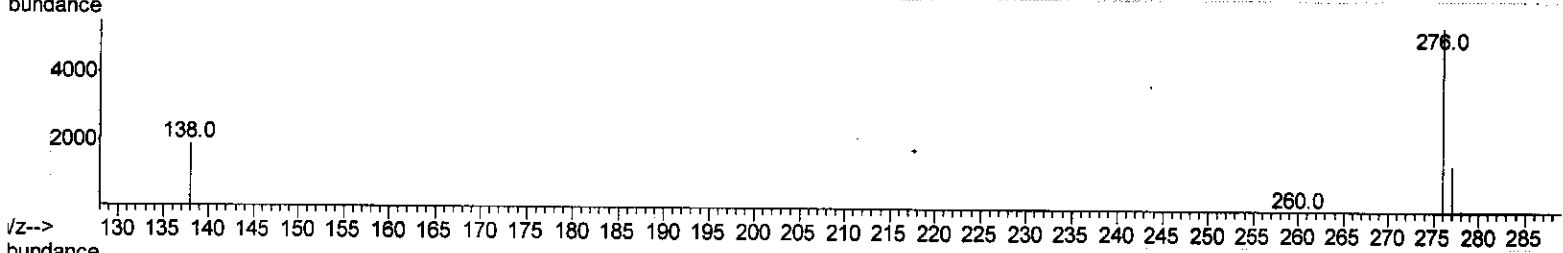
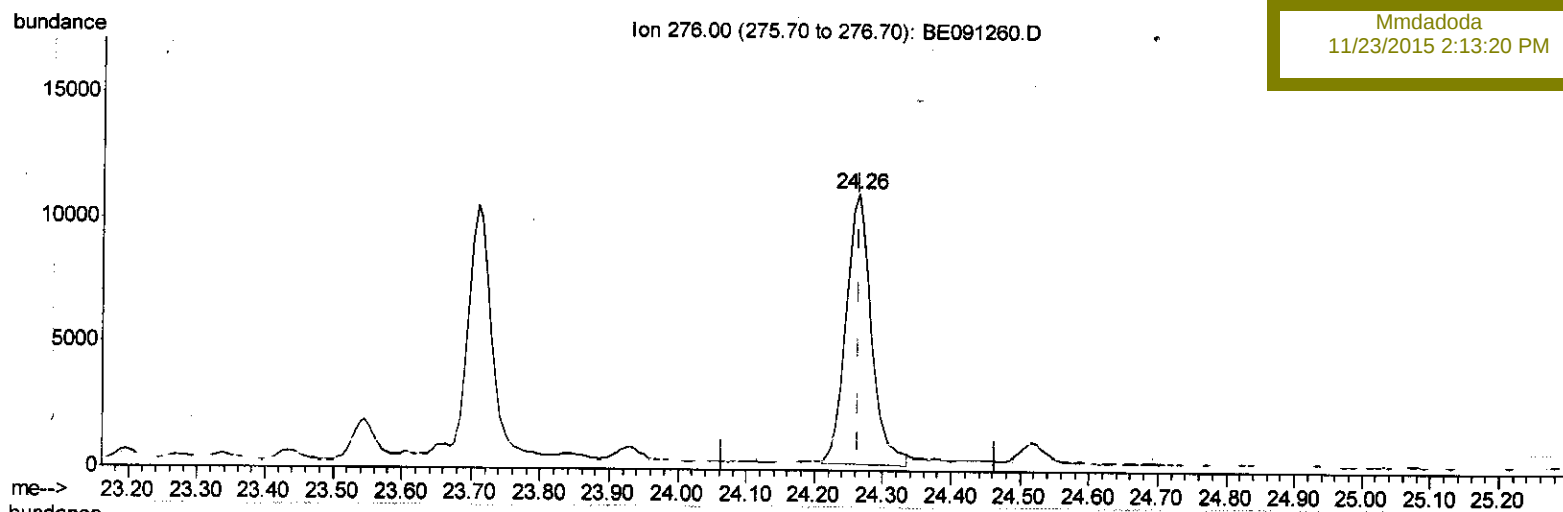
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 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:02:20 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

Mmdadoda
 11/23/2015 2:13:20 PM



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

24.263min (-0.001) 0.12ng/ul m

response 27537

Ion	Exp%	Act%
276.00	100	100
277.00	26.60	25.74
138.00	31.90	34.09
0.00	0.00	0.00

20.11
 25/11/15

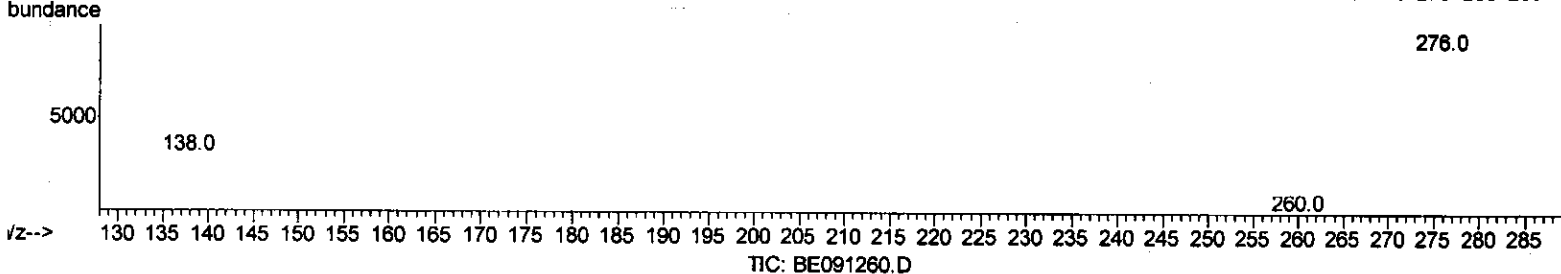
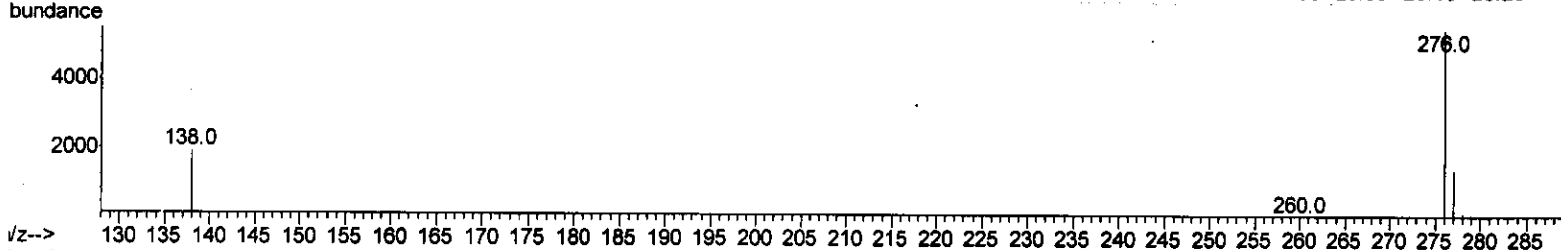
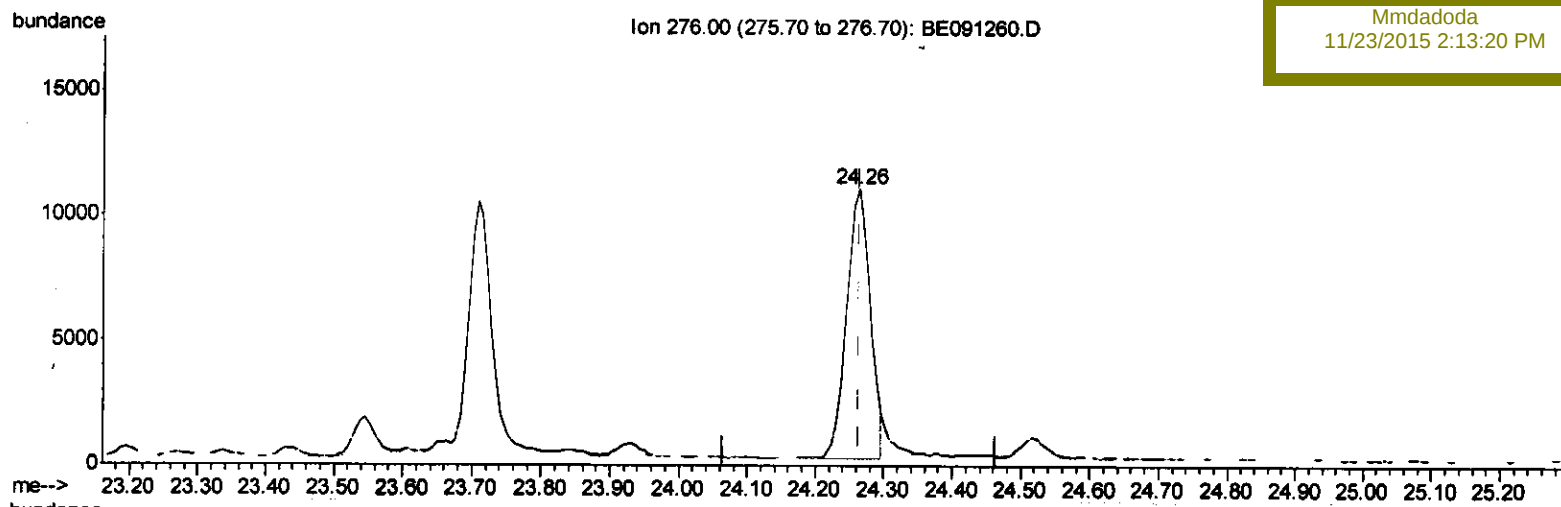
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acc On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:02:20 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
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Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

Mmdadoda
 11/23/2015 2:13:20 PM



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

24.263min (-0.001) 0.12ng/ul

response 25937

Ion	Exp%	Act%
276.00	100	100
277.00	26.60	25.74
138.00	31.90	34.09
0.00	0.00	0.00

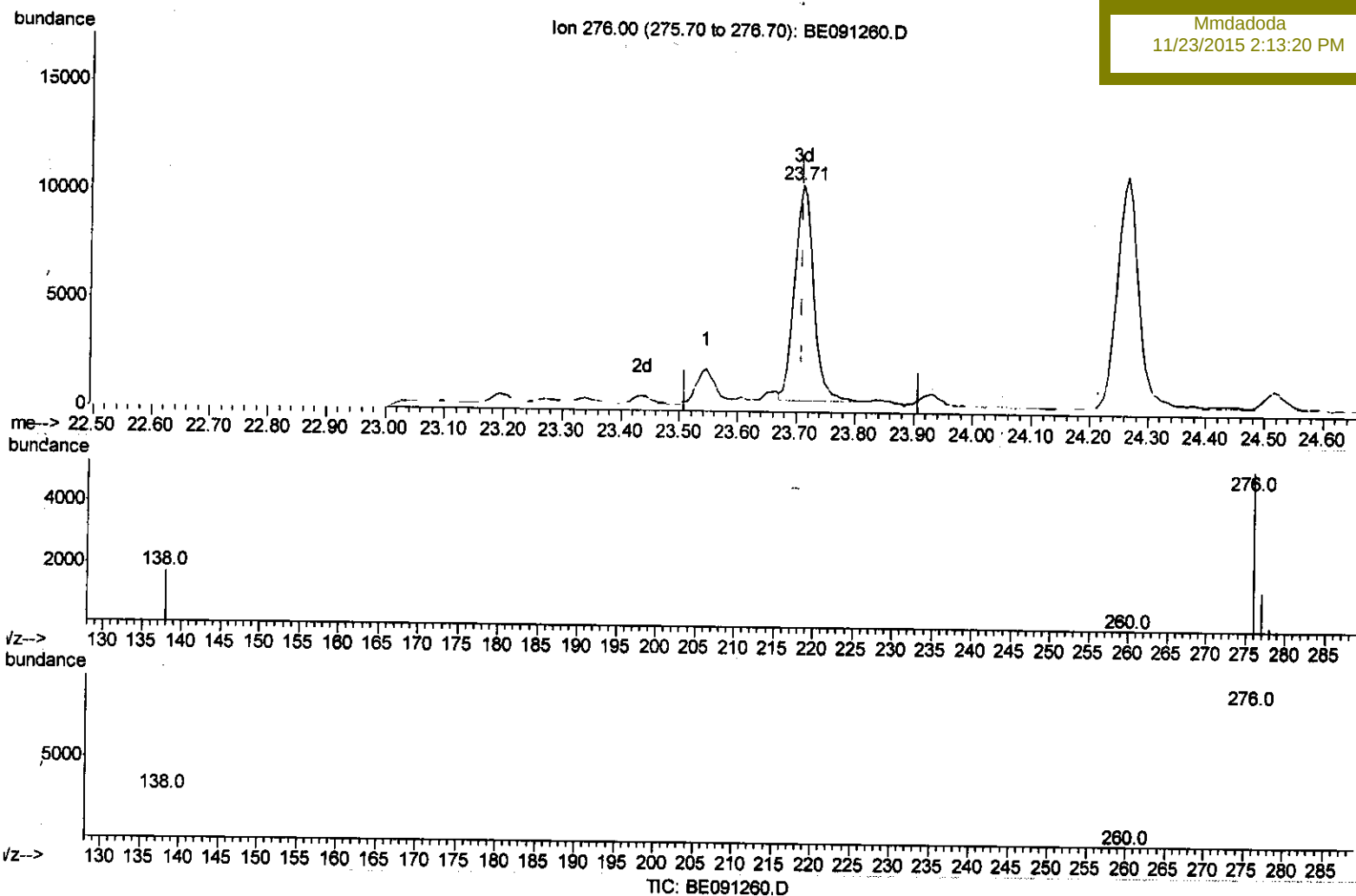
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
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 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 05:02:20 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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 Response via : Initial Calibration

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

Mmdadoda
 11/23/2015 2:13:20 PM



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

23.709min (-0.001) 0.11ng/ul m

response 22671

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	3.76#
277.00	24.10	3.97#
0.00	0.00	0.00

> U.M
 25/11/15

Data Path : Z:\HPCHEM1\BNA E\Data\BE112115\
 Data File : BE091260.D
 Acq On : 21 Nov 2015 1:26
 Operator : UM/NP
 Sample : G4310-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 D9KN1

Manual Integrations
 APPROVED

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 11/23/2015 2:13:20 PM

Quant Time: Nov 23 09:46:37 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:53:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	2589	0.40	ng/ul	-0.03
4) Naphthalene-d8	9.55	136	12429	0.40	ng/ul	-0.03
8) Acenaphthene-d10	13.36	164	6929	0.40	ng/ul	0.00
12) Phenanthrene-d10	16.08	188	17345m	0.40	ng/ul	-0.02
18) Chrysene-d12	20.23	240	19570	0.40	ng/ul	0.00
22) Perylene-d12	22.11	264	17642m	0.40	ng/ul	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	2.93	96	24653	13.24	ng/uL	-0.04
6) 2-Methylnaphthalene-d10	11.06	152	6255	0.37	ng/ul	-0.02
16) Fluoranthene-d10	18.07	212	19399	0.40	ng/ul	0.00
Target Compounds						
13) Pentachlorophenol	15.85	266	357	0.22	ng/ul	96
14) Phenanthrene	16.11	178	23915	0.12	ng/ul	96
17) Fluoranthene	18.10	202	66119	0.28	ng/ul	88
20) Benzo(a)anthracene	20.20	228	3848m	0.08	ng/ul	
21) Chrysene	20.26	228	12123	0.21	ng/ul	96
23) Benzo(b)fluoranthene	21.55	252	11331	0.21	ng/ul	98
24) Benzo(k)fluoranthene	21.58	252	7464m	0.13	ng/ul	
25) Benzo(a)pyrene	22.01	252	7382	0.15	ng/ul	96
26) Indeno(1,2,3-cd)pyrene	23.71	276	22671m	0.11	ng/ul	
28) Benzo(g,h,i)perylene	24.26	276	27537m	0.12	ng/ul	

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 25/11/15

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 25/11/15

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