

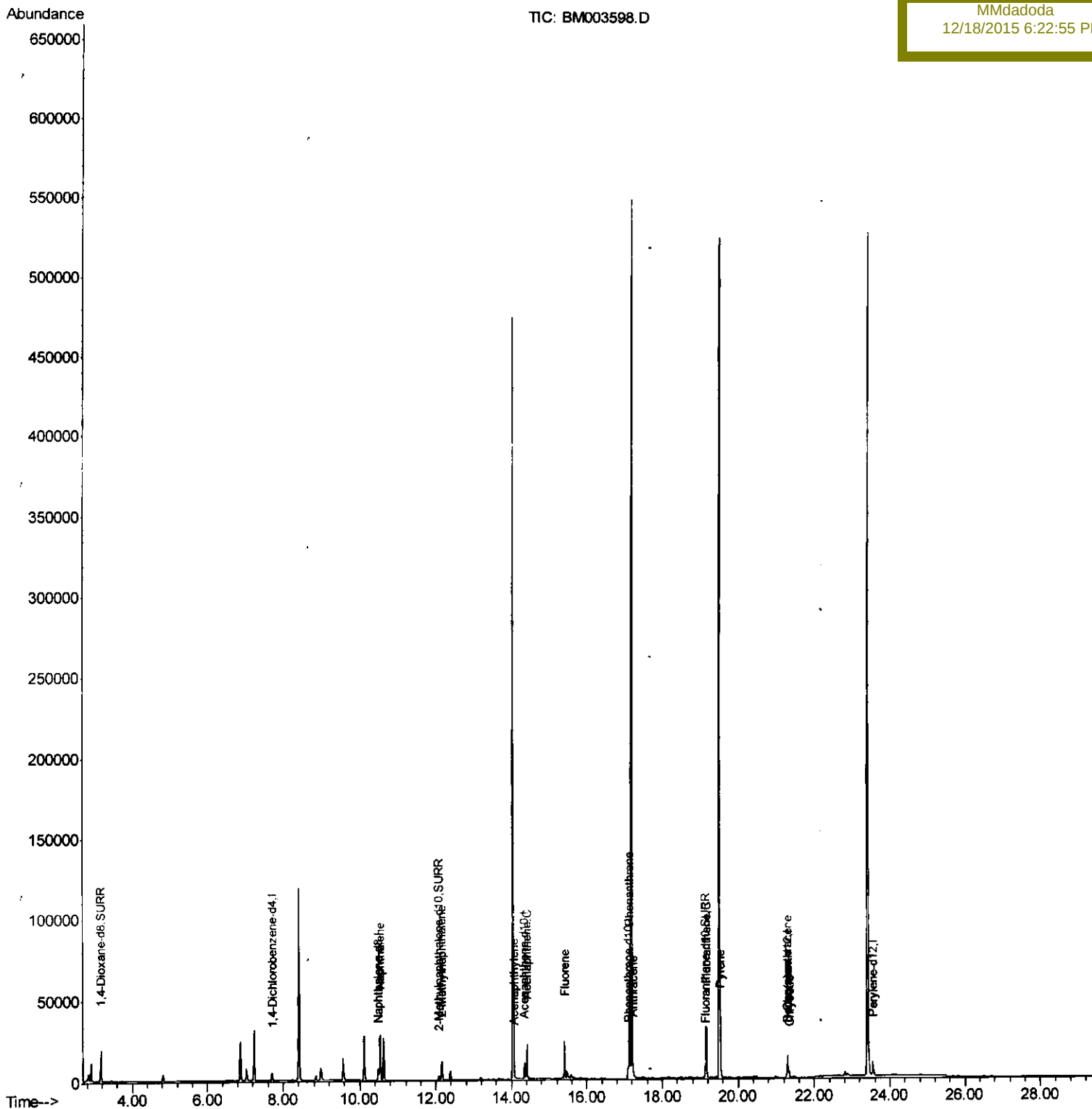
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121715\
Data File : BM003598.D
Acq On : 17 Dec 2015 14:26
Operator : UM/IZ
Sample : G4767-24
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 18 00:43:11 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 18 00:27:21 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N46

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:55 PM



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121715\
 Data File : BM003598.D
 Acq On : 17 Dec 2015 14:26
 Operator : UM/IZ
 Sample : G4767-24
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N46

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:22:55 PM

Quant Time: Dec 18 00:43:11 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 00:27:21 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	2737	0.40	ng/ul	0.00
4) Naphthalene-d8	10.50	136	10979	0.40	ng/ul	0.00
8) Acenaphthene-d10	14.35	164	6175	0.40	ng/ul	0.00
12) Phenanthrene-d10	17.11	188	12767m	0.40	ng/ul	0.02
18) Chrysene-d12	21.31	240	12531	0.40	ng/ul	0.00
22) Perylene-d12	23.55	264	13012m	0.40	ng/ul	0.00

U.M
 25/12/15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 1,4-Dioxane-d8	3.17	96	13646	11.66	ng/uL	0.00
6) 2-Methylnaphthalene-d10	12.09	152	3772	0.29	ng/ul	0.00
16) Fluoranthene-d10	19.14	212	7709	0.28	ng/ul	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Naphthalene	10.55	128	43267	1.75	ng/ul	99
7) 2-Methylnaphthalene	12.16	142	8483	0.51	ng/ul	99
9) Acenaphthylene	14.07	152	2579	0.11	ng/ul#	91
10) Acenaphthene	14.42	153	14422	0.76	ng/ul	95
11) Fluorene	15.41	166	16937	0.80	ng/ul	93
14) Phenanthrene	17.14	178	74910	2.27	ng/ul	96
15) Anthracene	17.23	178	6096	0.21	ng/ul	94
17) Fluoranthene	19.17	202	36454	1.02	ng/ul	93
19) Pyrene	19.54	202	25526	0.75	ng/ul	94
20) Benzo(a)anthracene	21.29	228	4850	0.16	ng/ul#	93
21) Chrysene	21.34	228	4174m	0.12	ng/ul	

U.M
 25/12/15

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

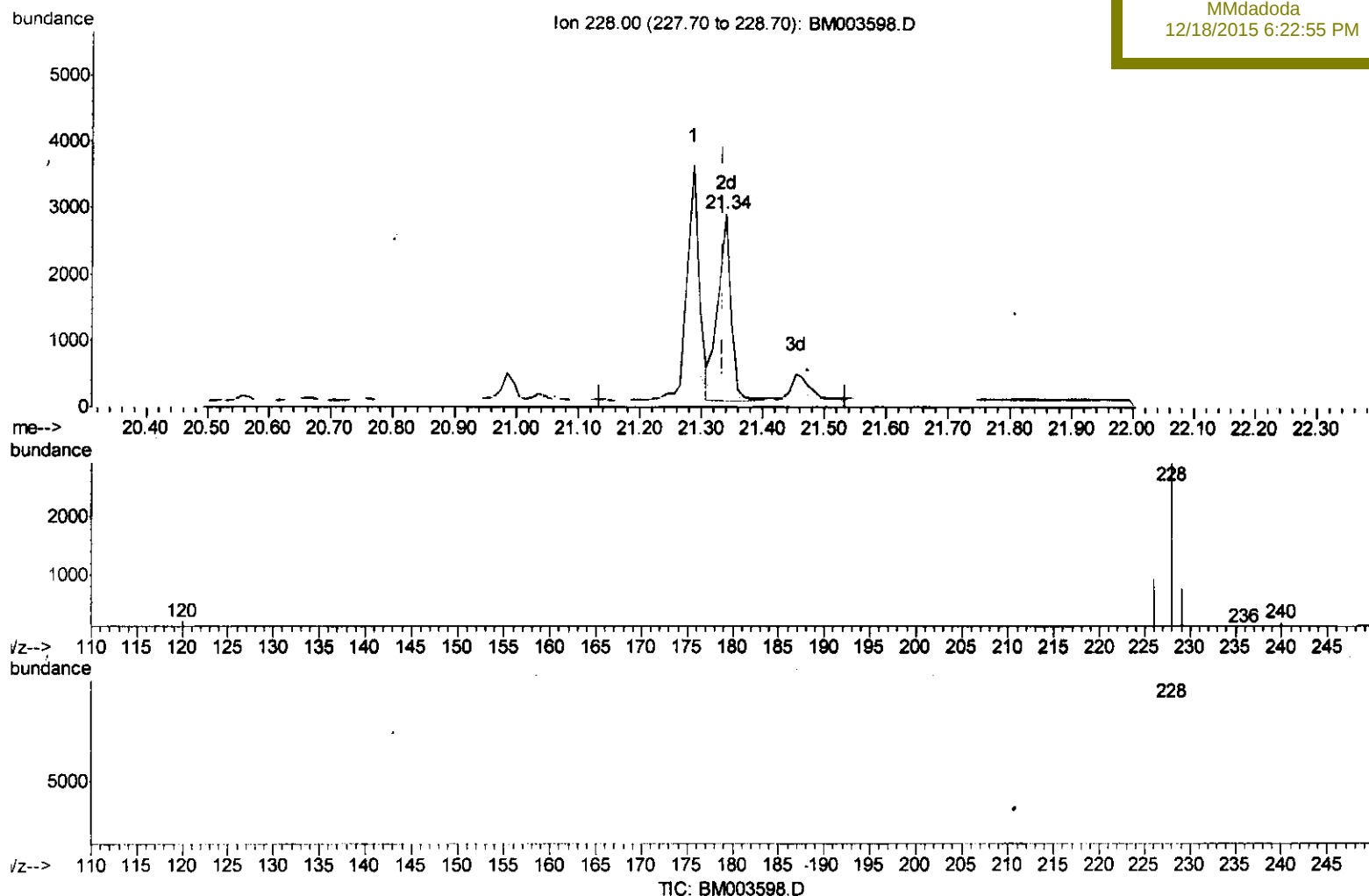
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121715\
 Data File : BM003598.D
 Acq On : 17 Dec 2015 14:26
 Operator : UM/12
 Sample : G4767-24
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 18 00:41:58 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 00:27:21 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9N46

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:22:55 PM



(21) Chrysene

21.339min (+0.003) 0.12ng/ul m

response 4174

> U.M
 25/12/15

Ion	Exp%	Act%
228.00	100	100
226.00	26.50	31.87#
229.00	21.30	26.07#
0.00	0.00	0.00

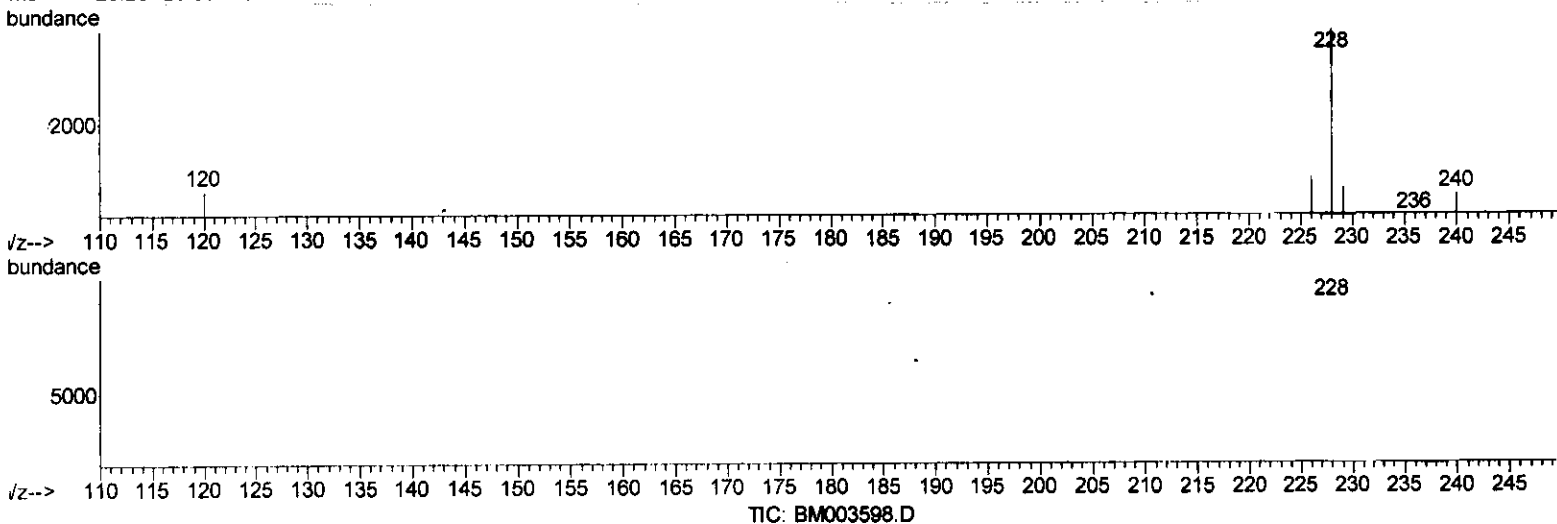
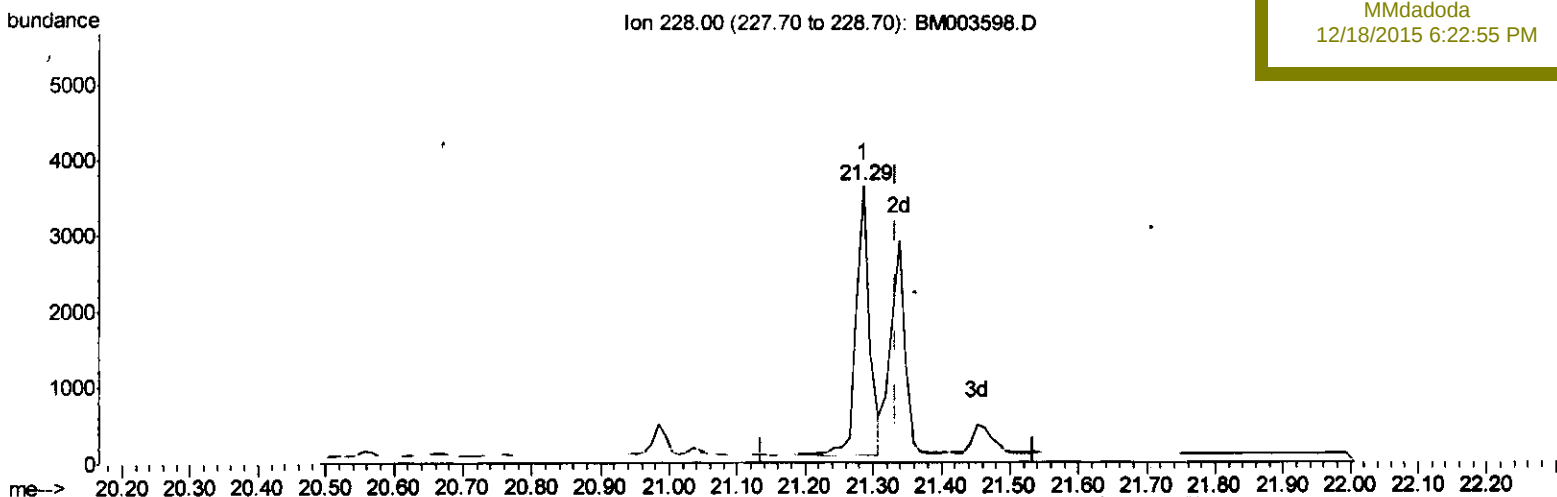
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121715\
 Data File : BM003598.D
 Acq On : 17 Dec 2015 14:26
 Operator : UM/IZ
 Sample : G4767-24
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 18 00:41:58 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 00:27:21 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9N46

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:22:55 PM



(21) Chrysene

21.287min (-0.049) 0.14ng/ul

response 4850

Ion	Exp%	Act%
228.00	100	100
226.00	26.50	28.39
229.00	21.30	23.10
0.00	0.00	0.00

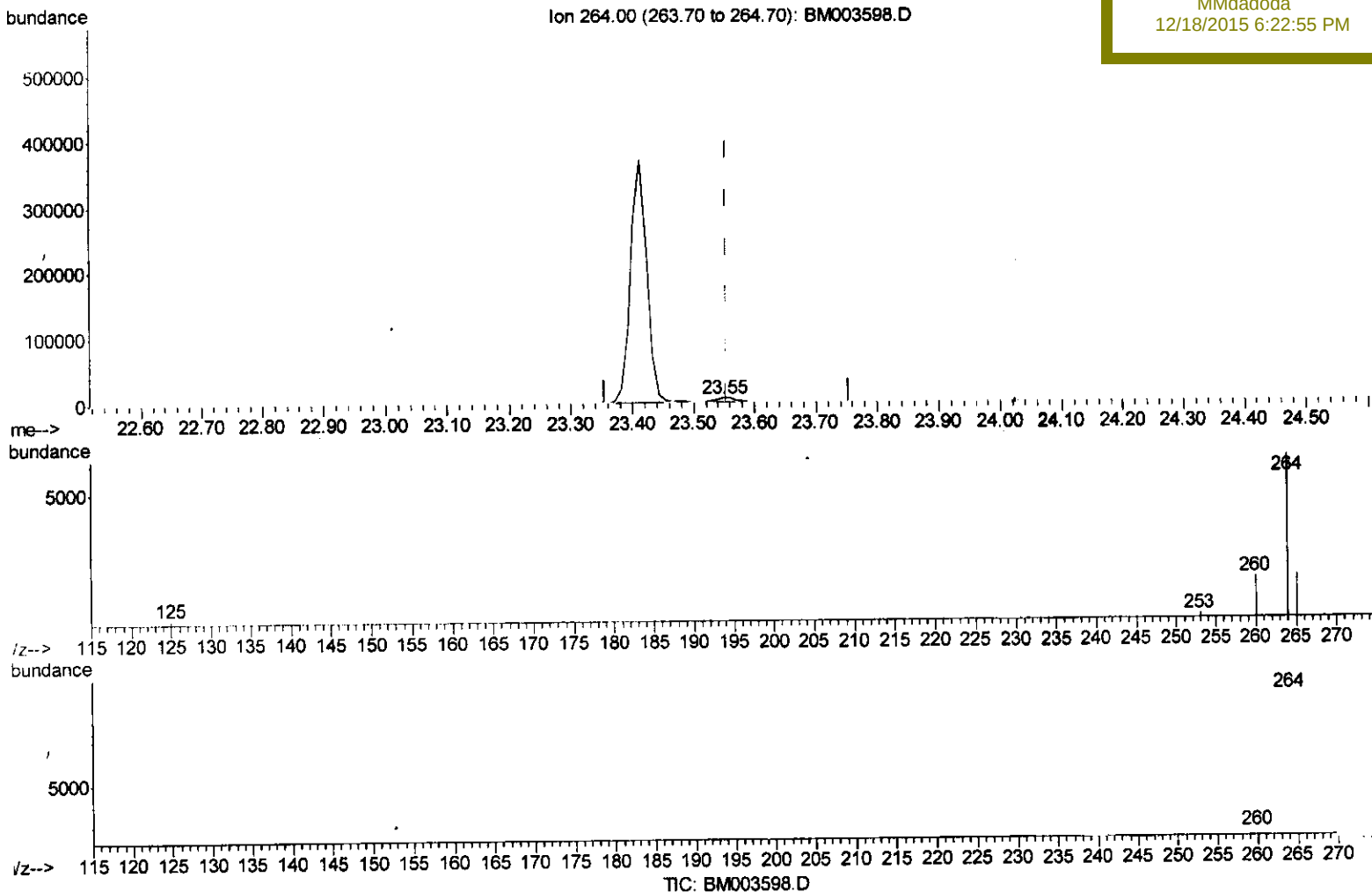
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121715\
 Data File : BM003598.D
 Acq On : 17 Dec 2015 14:26
 Operator : UM/IZ
 Sample : G4767-24
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 18 00:31:04 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 00:27:21 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampled :
 D9N46

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:22:55 PM



(22) Perylene-d12 (I)

23.548min (-0.007) 0.40ng/ul m

response 13012

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	27.79
265.00	38.20	28.98#
0.00	0.00	0.00

> U.M
 25/12/15

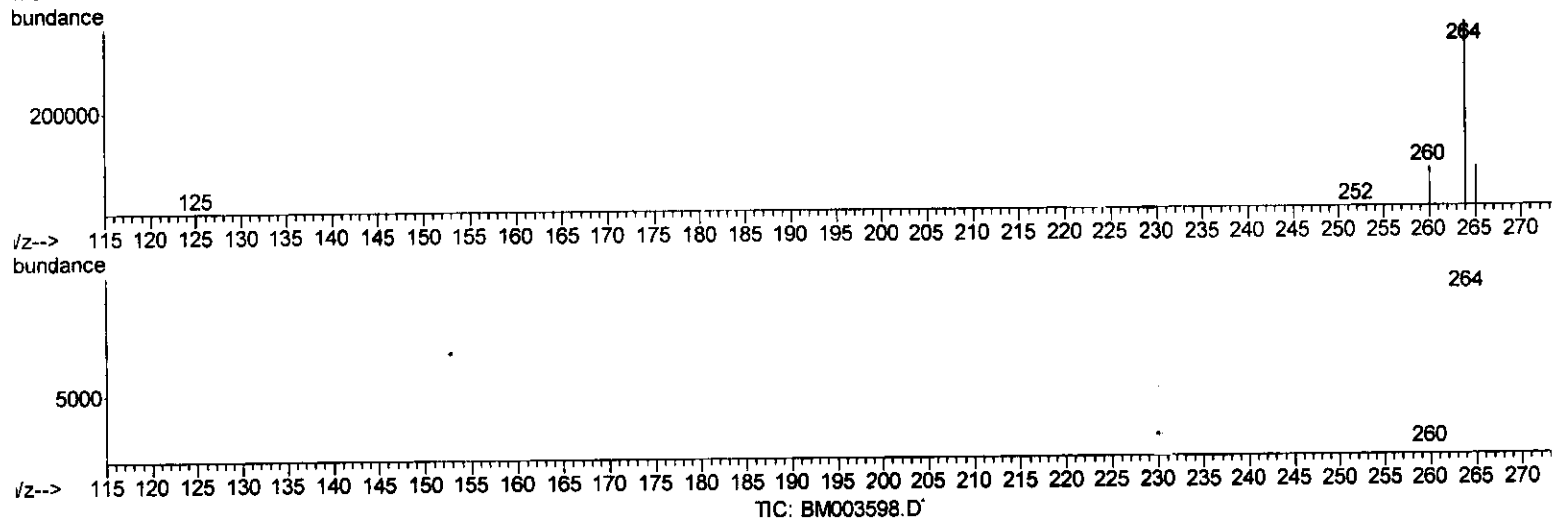
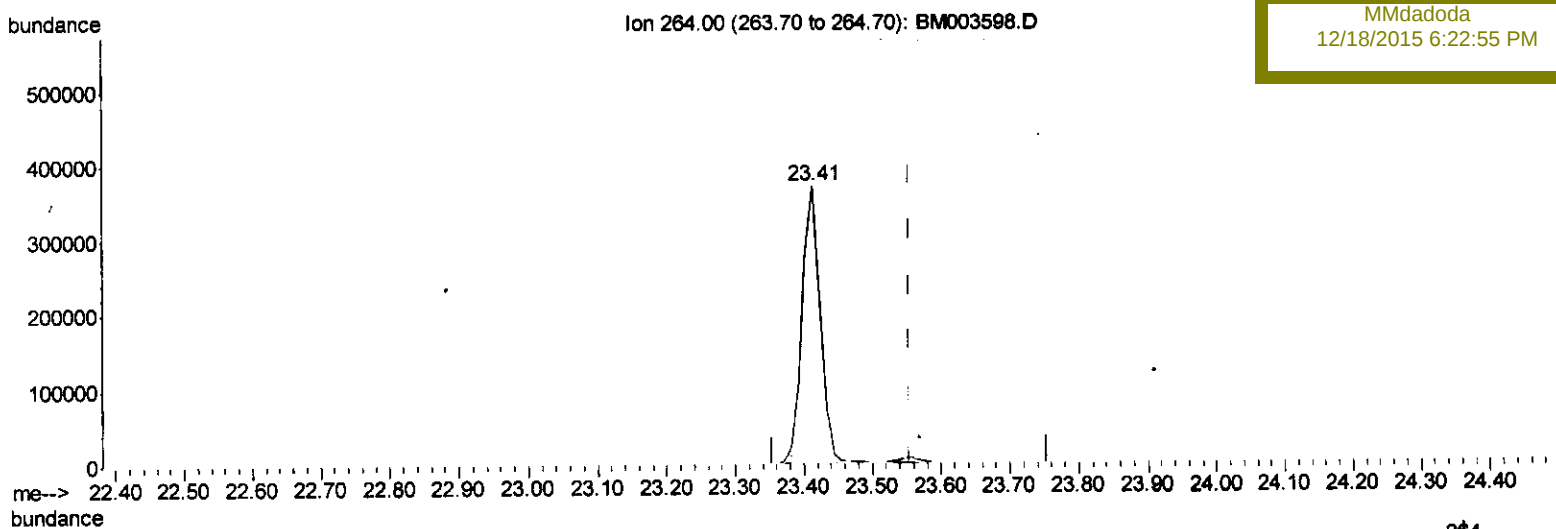
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121715\
 Data File : BM003598.D
 Acq On : 17 Dec 2015 14:26
 Operator : UM/IZ
 Sample : G4767-24
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 18 00:31:04 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 00:27:21 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 D9N46

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:22:55 PM



(22) Perylene-d12 (I)

23.413min (-0.143) 0.40ng/ul

response 666403

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	20.89
265.00	38.20	21.55#
0.00	0.00	0.00

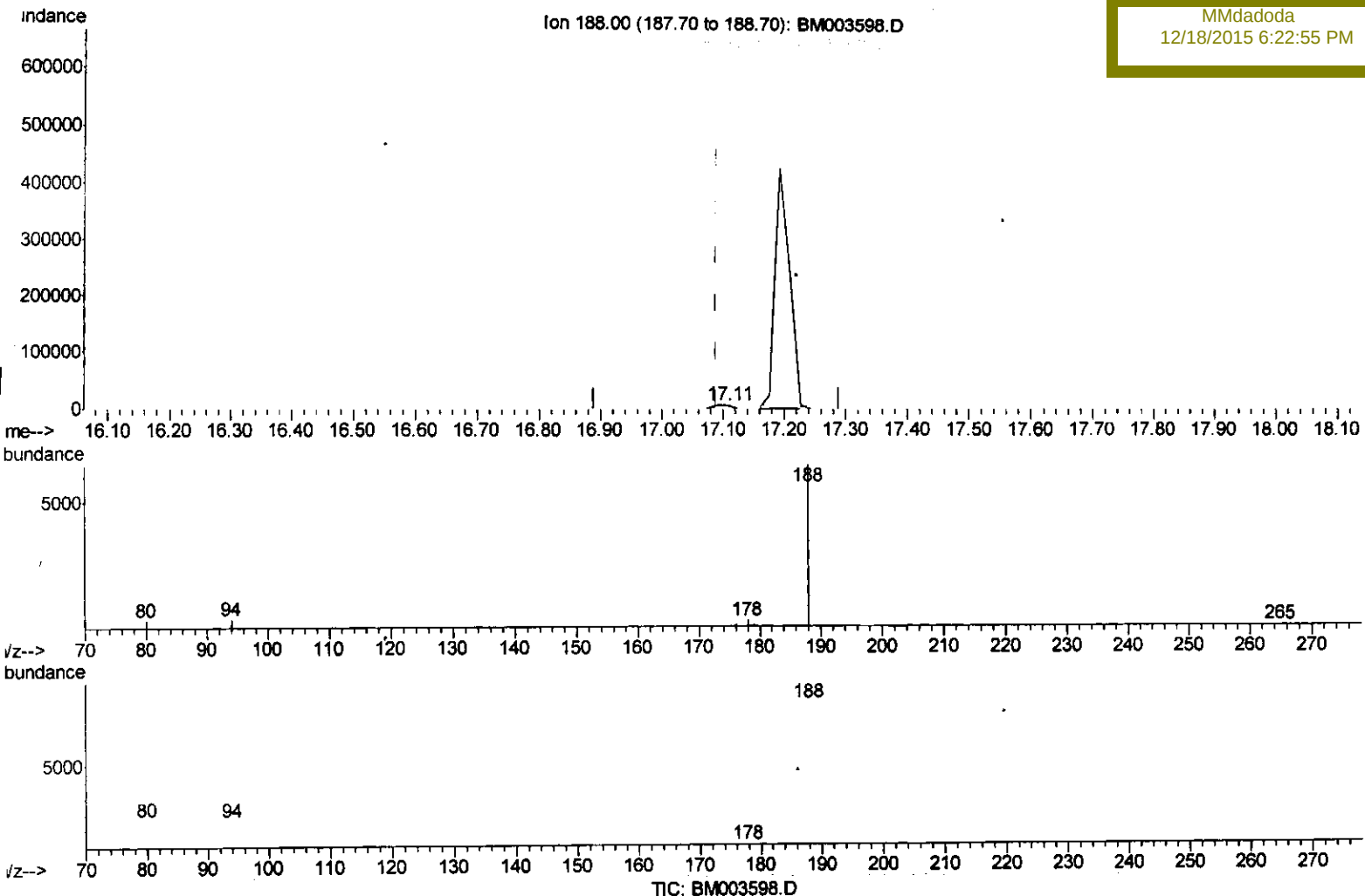
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121715\
 Data File : BM003598.D
 Acq On : 17 Dec 2015 14:26
 Operator : UM/IZ
 Sample : G4767-24
 Disc :
 LS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N46

Manual Integrations
 APPROVED

MMDadoda
 12/18/2015 6:22:55 PM

Quant Time: Dec 18 00:31:04 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Dec 18 00:27:21 2015
 Response via : Initial Calibration



(12) Phenanthrene-d10 (I)

17.107min (+0.017) 0.40ng/ul m

response 12767

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	6.12#
80.00	11.90	5.44#
0.00	0.00	0.00

> 10. M
 25/12/15

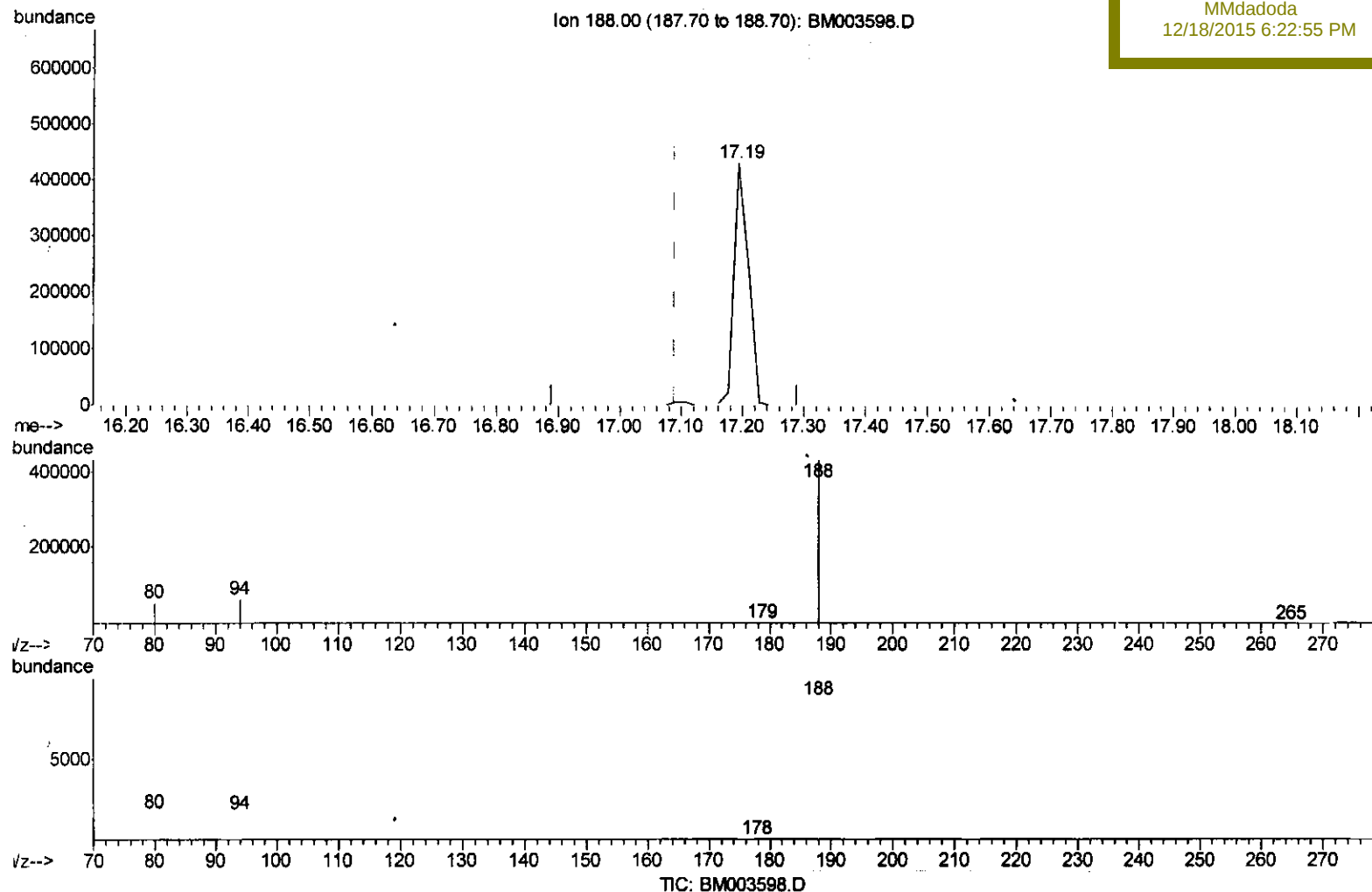
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121715\
Data File : BM003598.D
Acq On : 17 Dec 2015 14:26
Operator : UM/IZ
Sample : G4767-24
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 18 00:31:04 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 18 00:27:21 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N46

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:55 PM



(12) Phenanthrene-d10 (I)

17.193min (+0.103) 0.40ng/ul

response 707300

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	14.40#
80.00	11.90	12.55
0.00	0.00	0.00