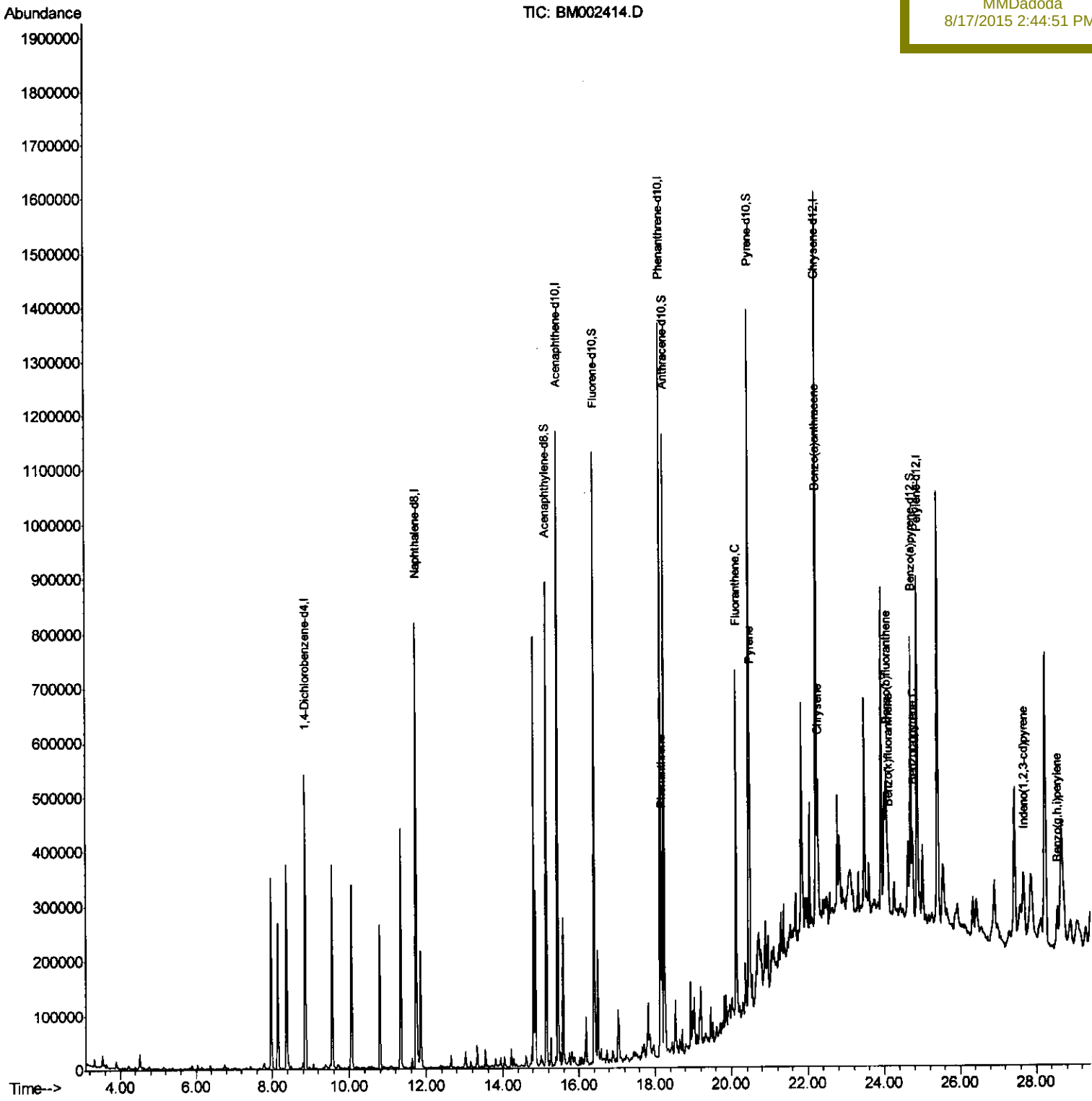
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002414.D
Acq On : 15 Aug 2015 08:32
Operator : UM/IZ
Sample : G3194-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 17 03:10:37 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 02:54:04 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9DE4

Manual Integrations APPROVED
MMDadoda
8/17/2015 2:44:51 PM



Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002414.D
Acq On : 15 Aug 2015 08:32
Operator : UM/IZ
Sample : G3194-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 17 02:55:54 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 02:54:04 2015
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Instrument :
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Manual Integrations APPROVED
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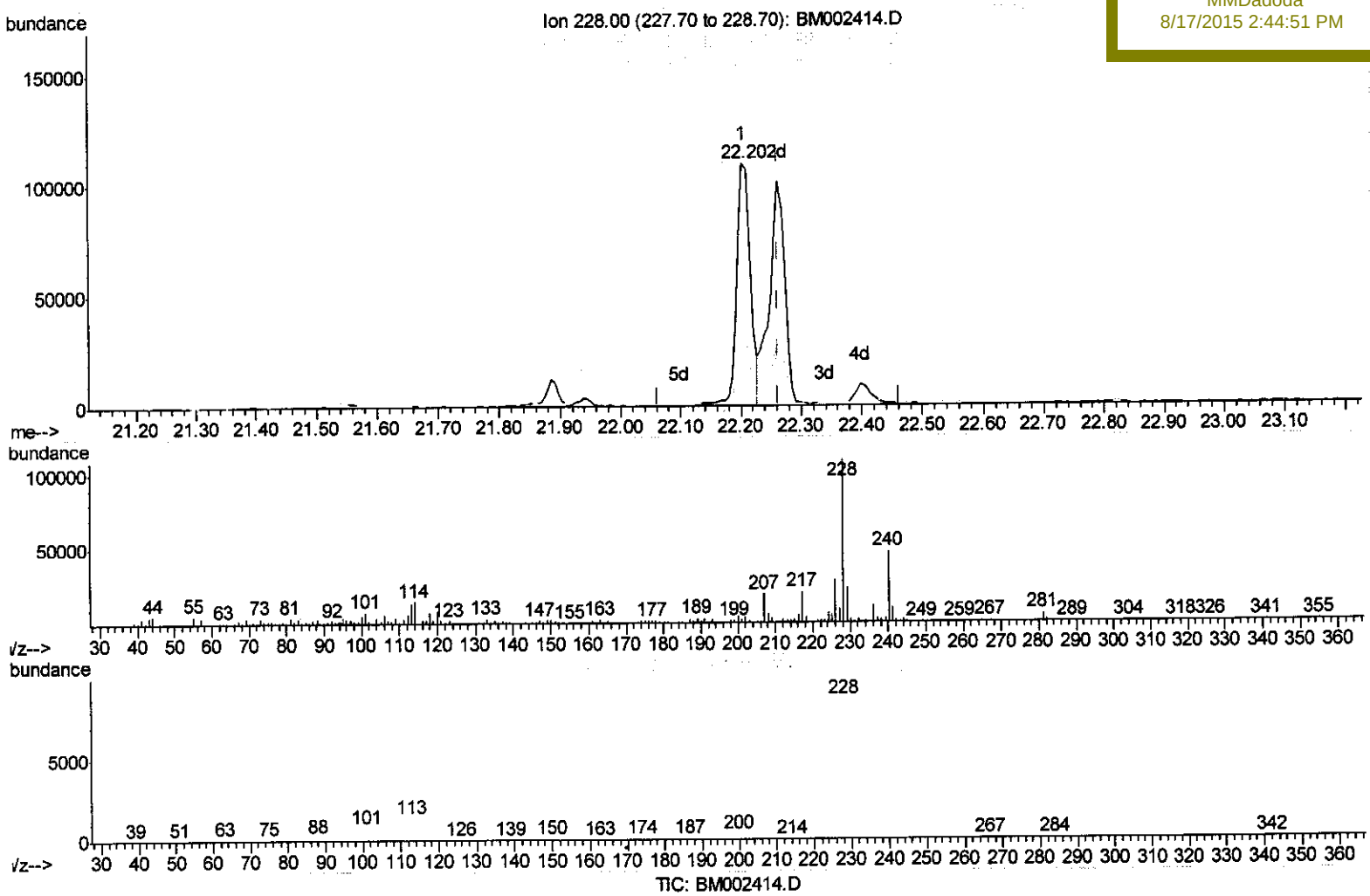


(21) Chrysene

22.203min (-0.059) 4.49ng/ul

response 169344

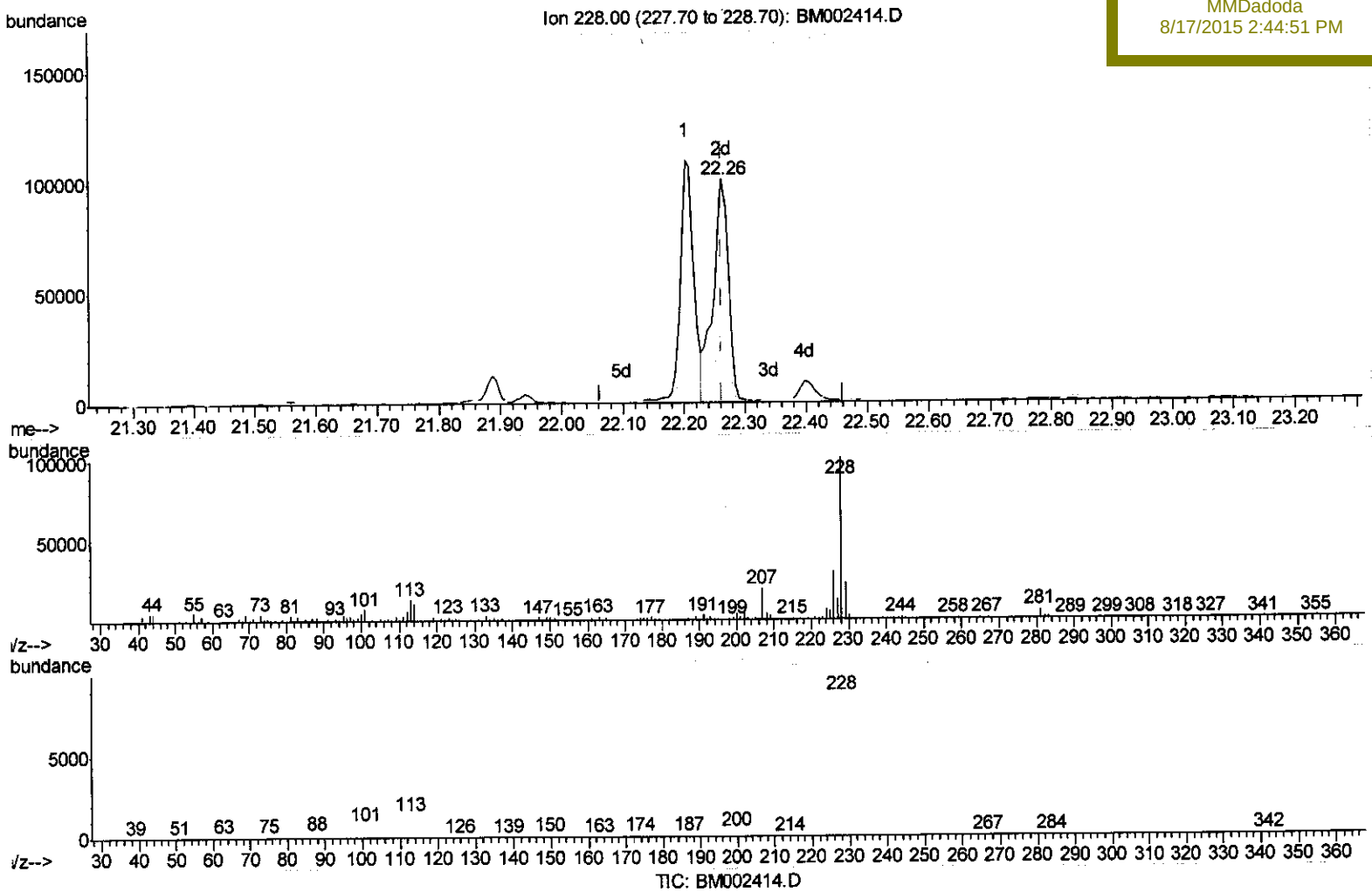
Ion	Exp%	Act%
228.00	100	100
226.00	29.30	26.47
229.00	19.60	21.21
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002414.D
Acq On : 15 Aug 2015 08:32
Operator : UM/IZ
Sample : G3194-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 17 02:55:54 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 02:54:04 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9DE4

Manual Integrations APPROVED
MMDadoda
8/17/2015 2:44:51 PM



(21) Chrysene

22.262min (+0.000) 4.66ng/ul m > U.M. 08/18/15

response 176030

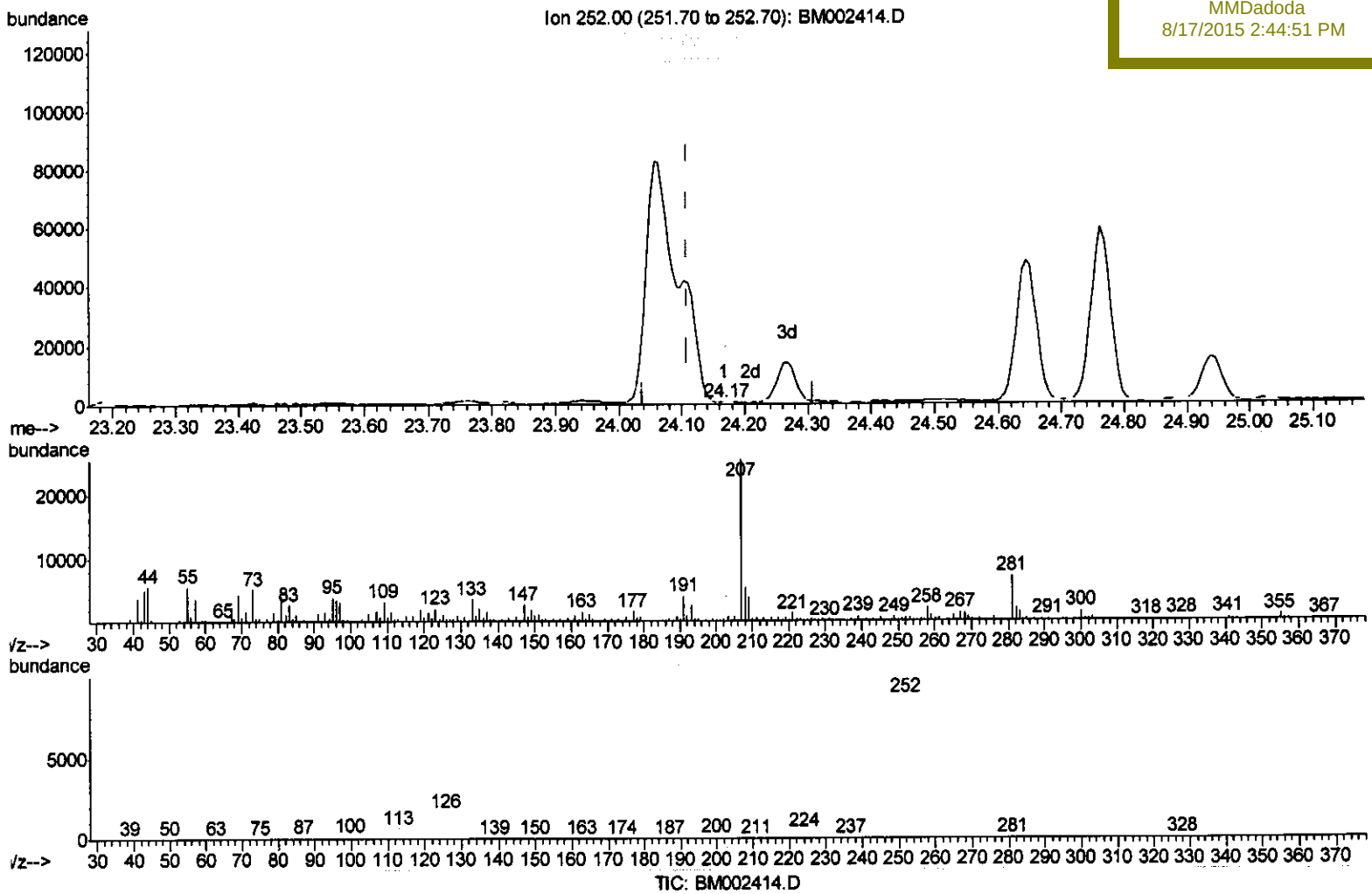
Ion	Exp%	Act%
228.00	100	100
226.00	29.30	30.08
229.00	19.60	23.71#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002414.D
Acq On : 15 Aug 2015 08:32
Operator : UM/IZ
Sample : G3194-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 17 03:08:18 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 02:54:04 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9DE4

Manual Integrations APPROVED
MMDadoda
8/17/2015 2:44:51 PM



TIC: BM002414.D

(24) Benzo(k)fluoranthene

24.168min (+0.059) 0.00ng/ul

response 100

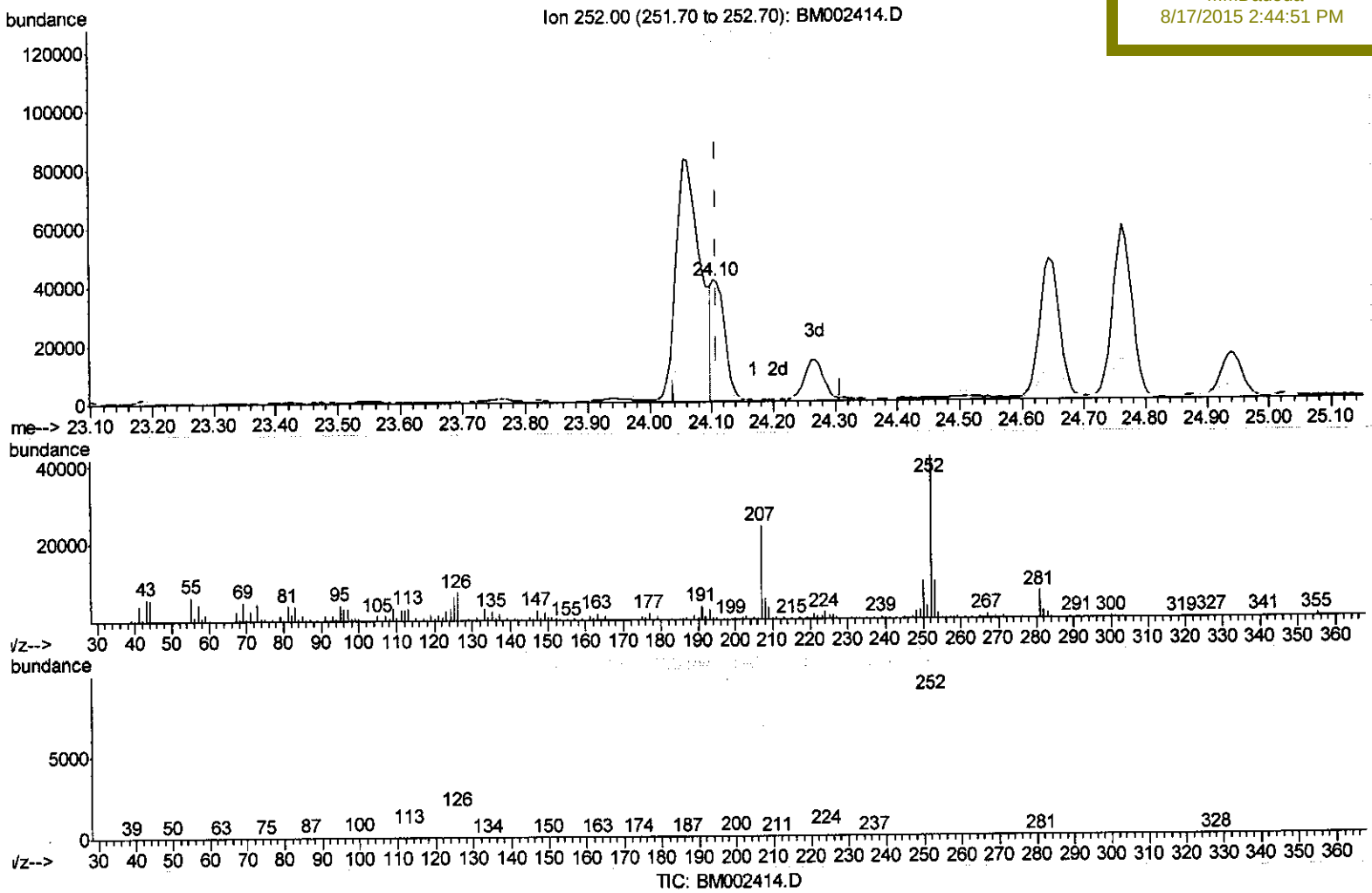
Ion	Exp%	Act%
252.00	100	100
253.00	22.20	100.63#
125.00	12.30	173.40#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002414.D
Acq On : 15 Aug 2015 08:32
Operator : UM/IZ
Sample : G3194-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 17 03:08:18 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 02:54:04 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9DE4

Manual Integrations APPROVED
MMDadoda
8/17/2015 2:44:51 PM



(24) Benzo(k)fluoranthene

24.103min (-0.006) 1.99ng/ul m > U.M. 08/18/15

response 59942

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	23.93
125.00	12.30	15.17#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\
Data File : BM002414.D
Acq On : 15 Aug 2015 08:32
Operator : UM/IZ
Sample : G3194-21
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9DE4

Manual Integrations APPROVED
MMDadoda
8/17/2015 2:44:51 PM

Quant Time: Aug 17 03:10:37 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 17 02:54:04 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.87	152	164847	20.00	ng/ul	0.00
2) Naphthalene-d8	11.74	136	767654	20.00	ng/ul	0.00
6) Acenaphthene-d10	15.45	164	398925	20.00	ng/ul	0.00
12) Phenanthrene-d10	18.15	188	811176	20.00	ng/ul	0.00
17) Chrysene-d12	22.22	240	674681	20.00	ng/ul	0.00
22) Perylene-d12	24.88	264	526940	20.00	ng/ul	0.00
System Monitoring Compounds						
7) Acenaphthylene-d8	15.15	160	679971	16.67	ng/ul	0.00
10) Fluorene-d10	16.42	176	450018	15.71	ng/ul	0.00
14) Anthracene-d10	18.24	188	648817	16.58	ng/ul	0.00
18) Pyrene-d10	20.46	212	621906	20.80	ng/ul	0.00
25) Benzo(a)pyrene-d12	24.71	264	423872	15.31	ng/ul	0.00
Target Compounds						Qvalue
13) Phenanthrene	18.19	178	223319	4.77	ng/ul	99
16) Fluoranthene	20.13	202	388659	7.33	ng/ul	99
19) Pyrene	20.49	202	312881	7.92	ng/ul	99
20) Benzo(a)anthracene	22.20	228	169567	4.20	ng/ul	99
21) Chrysene	22.26	228	176030m	4.66	ng/ul	
23) Benzo(b)fluoranthene	24.06	252	225775	7.09	ng/ul	96
24) Benzo(k)fluoranthene	24.10	252	59942m	1.99	ng/ul	
26) Benzo(a)pyrene	24.76	252	127867	4.20	ng/ul	96
27) Indeno(1,2,3-cd)pyrene	27.68	276	92505	2.64	ng/ul	96
29) Benzo(g,h,i)perylene	28.56	276	83576	2.87	ng/ul	97

U.M. 08/18/15

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