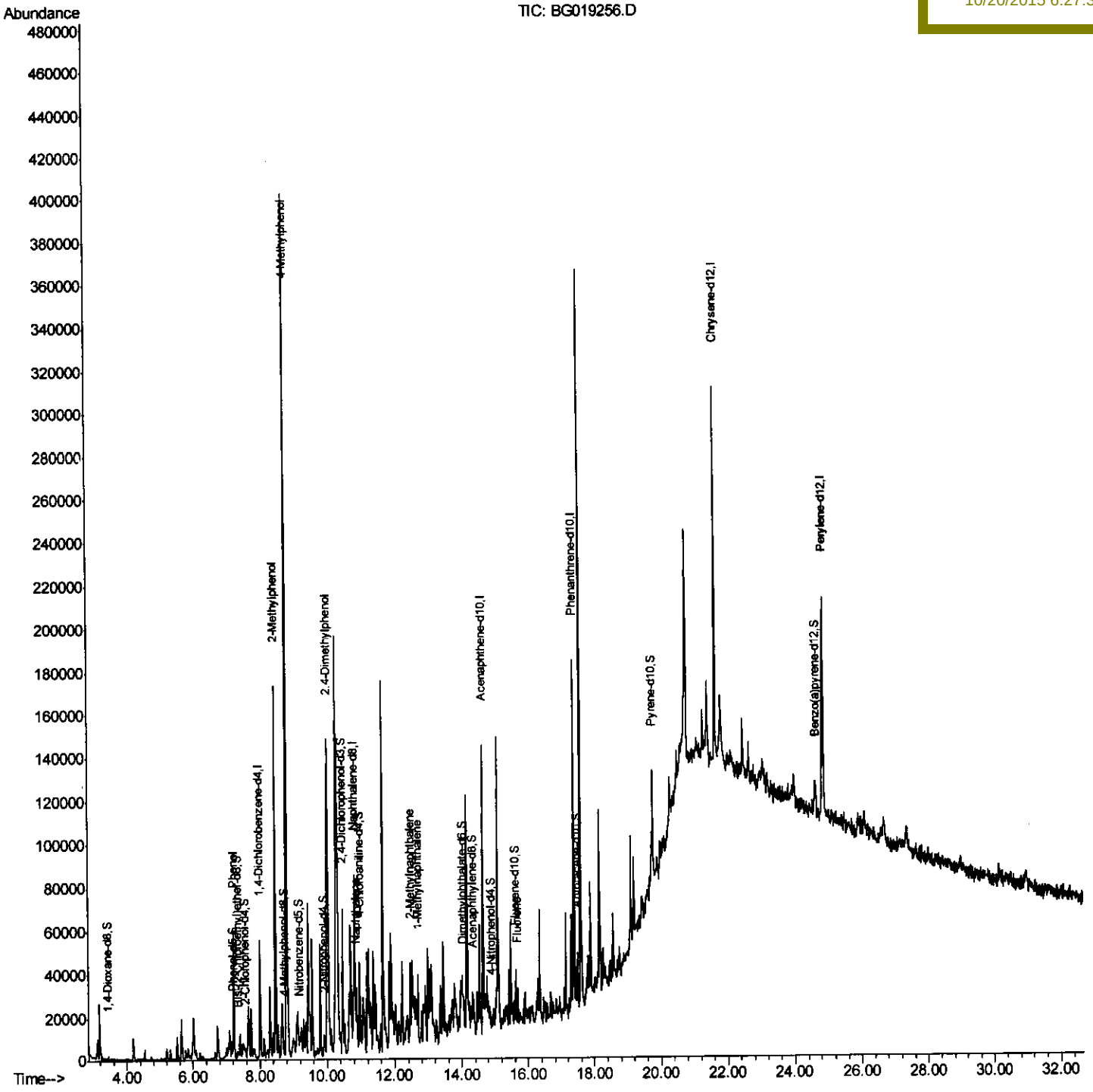
Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 08:12:38 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



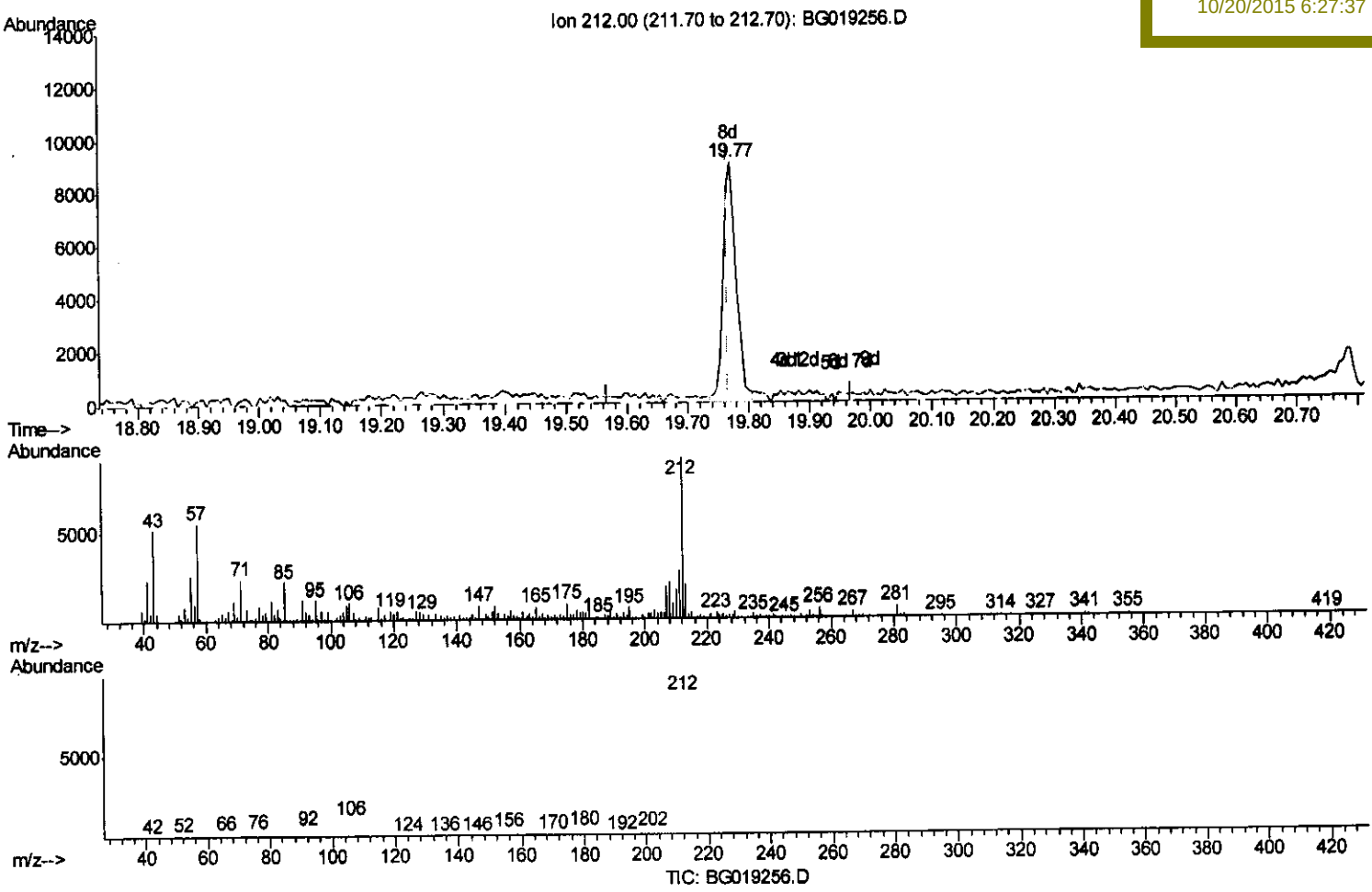
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 08:11:45 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(79) Pyrene-d10 (S)

19.771min (+0.003) 2.73ng/ul m U.M 11/3/15

response 13438

Ion	Exp%	Act%
212.00	100	100
106.00	14.00	12.39
104.00	9.60	7.21#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
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Misc :
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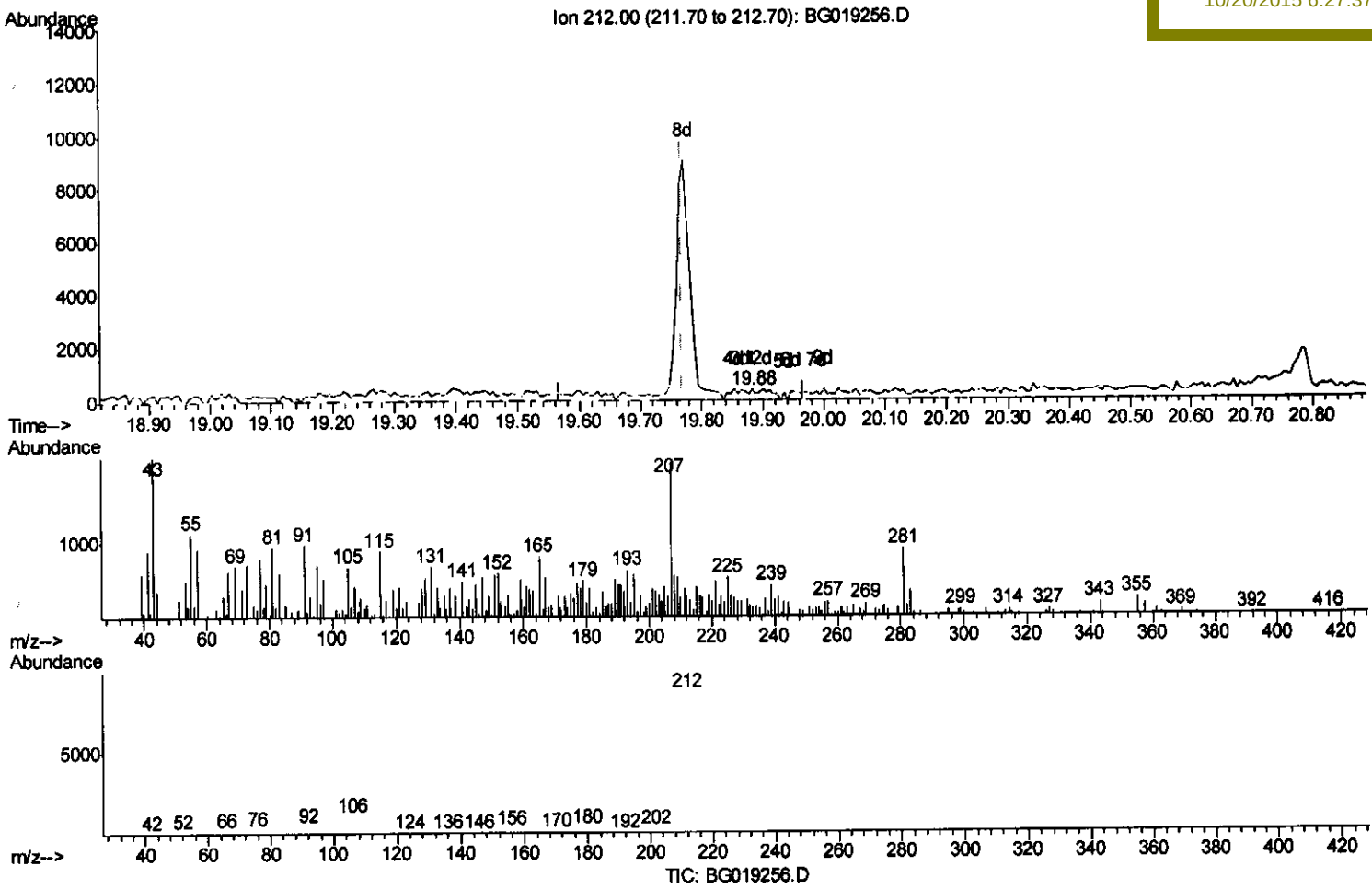
Quant Time: Oct 20 08:11:45 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(79) Pyrene-d10 (S)

19.882min (+0.115) 0.04ng/ul

response 206

Ion	Exp%	Act%
212.00	100	100
106.00	14.00	71.94#
104.00	9.60	49.49#
0.00	0.00	0.00

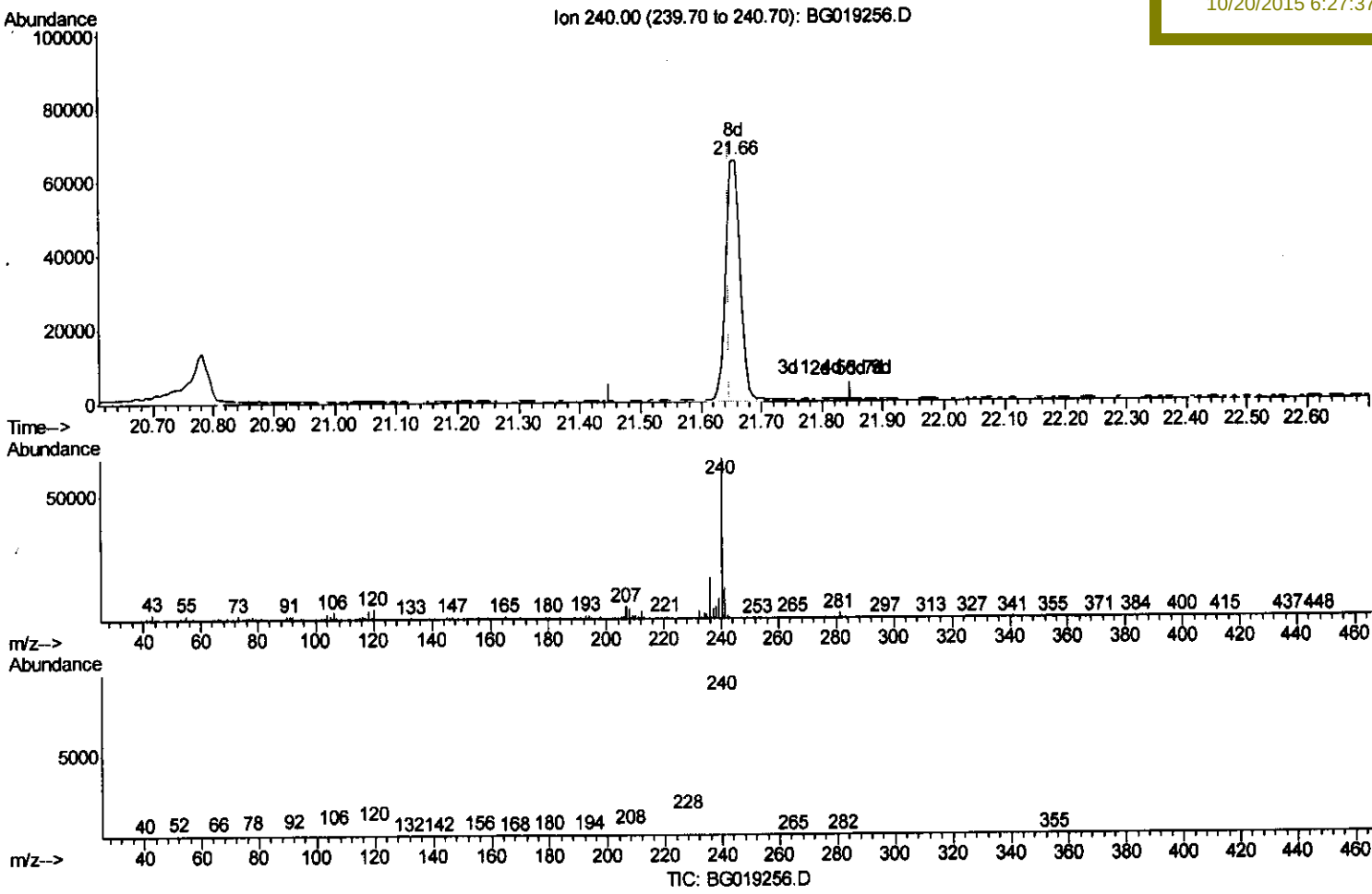
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 08:09:30 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(78) Chrysene-d12 (I)

21.657min (+0.009) 20.00ng/ul m U.M 11/3/15

response 108601

Ion	Exp%	Act%
240.00	100	100
120.00	10.30	6.55#
236.00	26.00	25.77
0.00	0.00	0.00

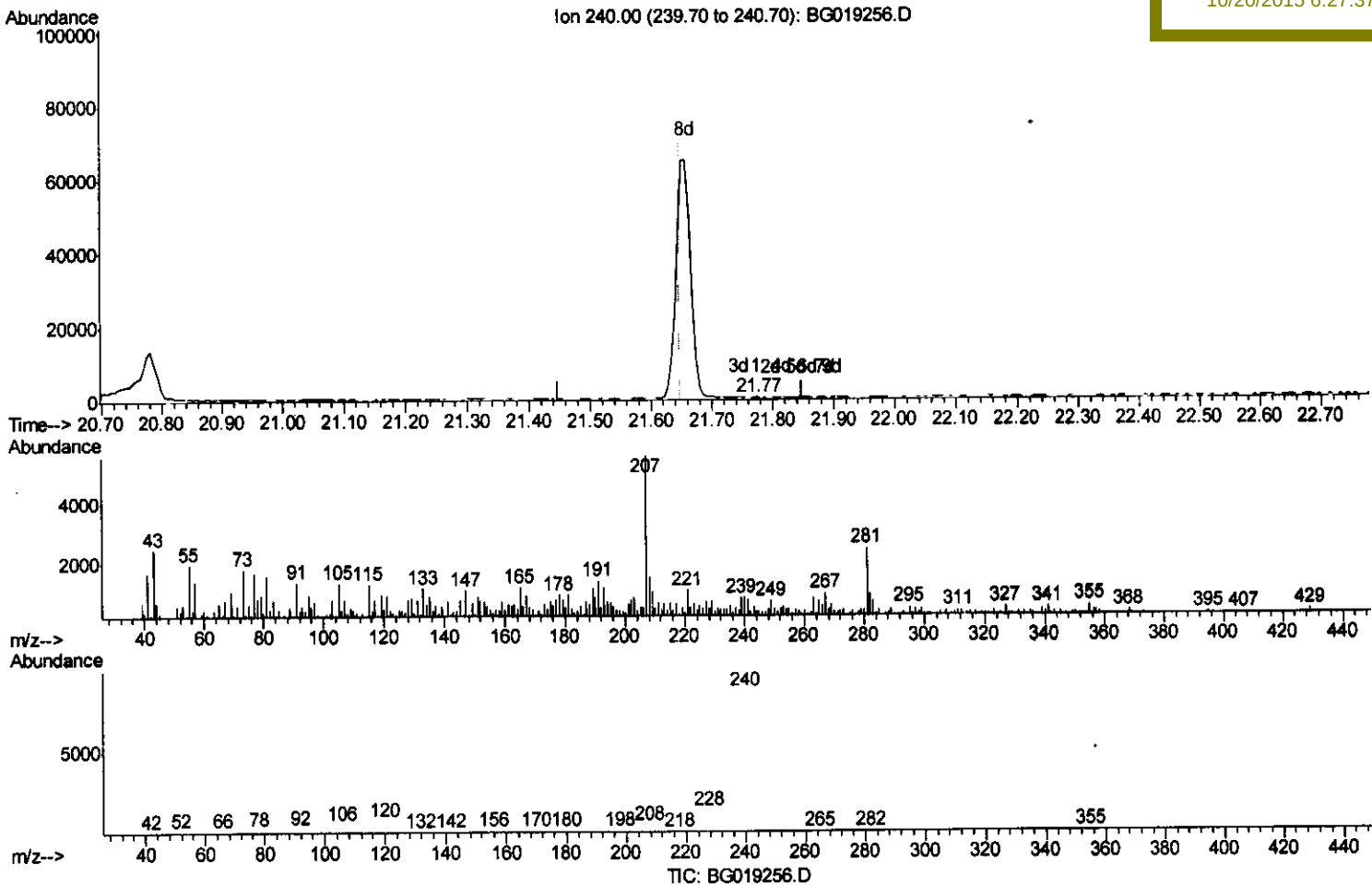
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 08:09:30 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(78) Chrysene-d12 (I)

21.774min (+0.127) 20.00ng/ul

response 274

Ion	Exp%	Act%
240.00	100	100
120.00	10.30	52.26#
236.00	26.00	34.93#
0.00	0.00	0.00

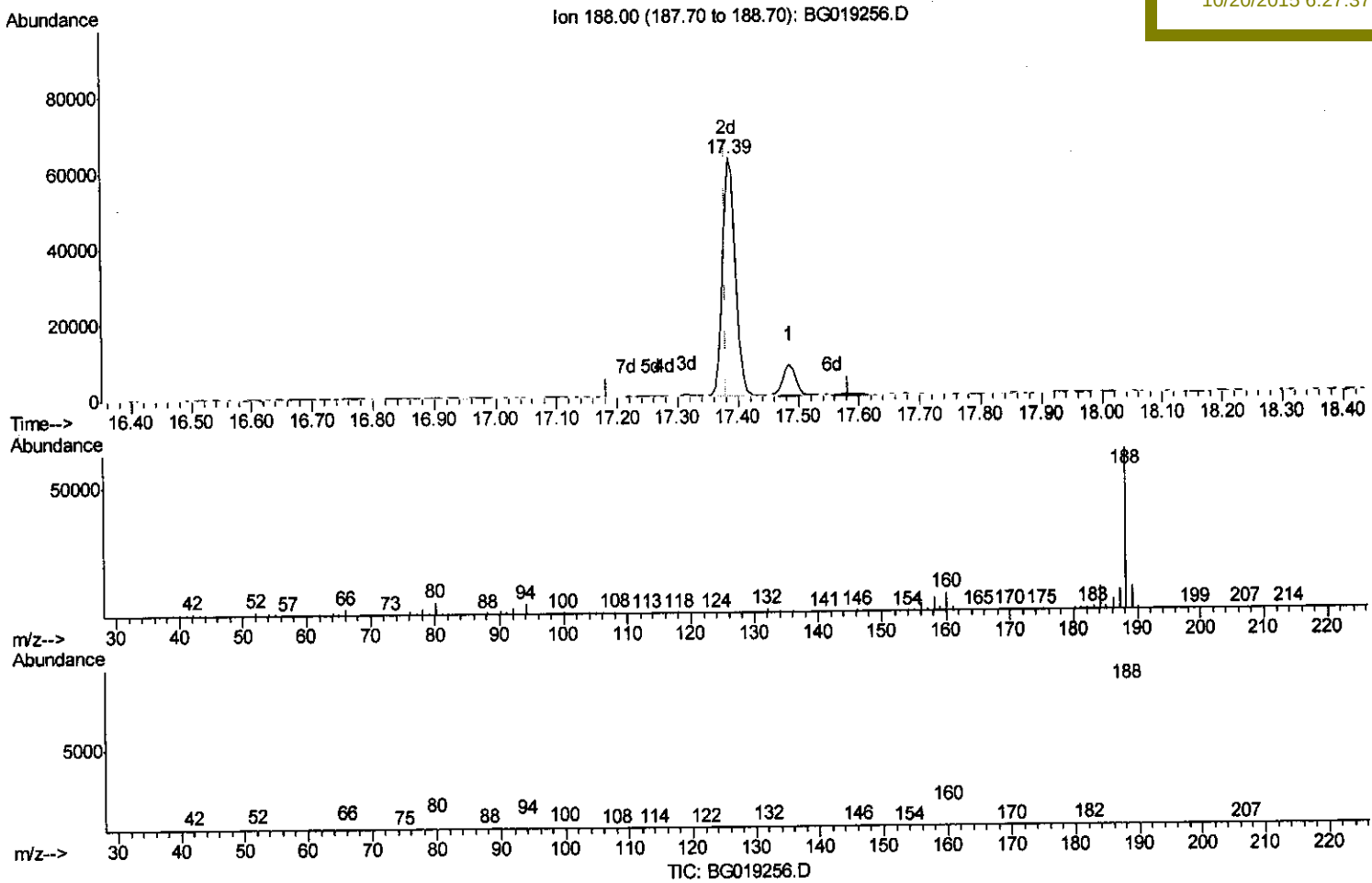
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 06:06:23 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(62) Phenanthrene-d10 (I)

17.385min (+0.003) 20.00ng/ul m U.M 11/3/15

response 92348

Ion	Exp%	Act%
188.00	100	100
94.00	9.20	6.63#
80.00	10.90	7.83#
0.00	0.00	0.00

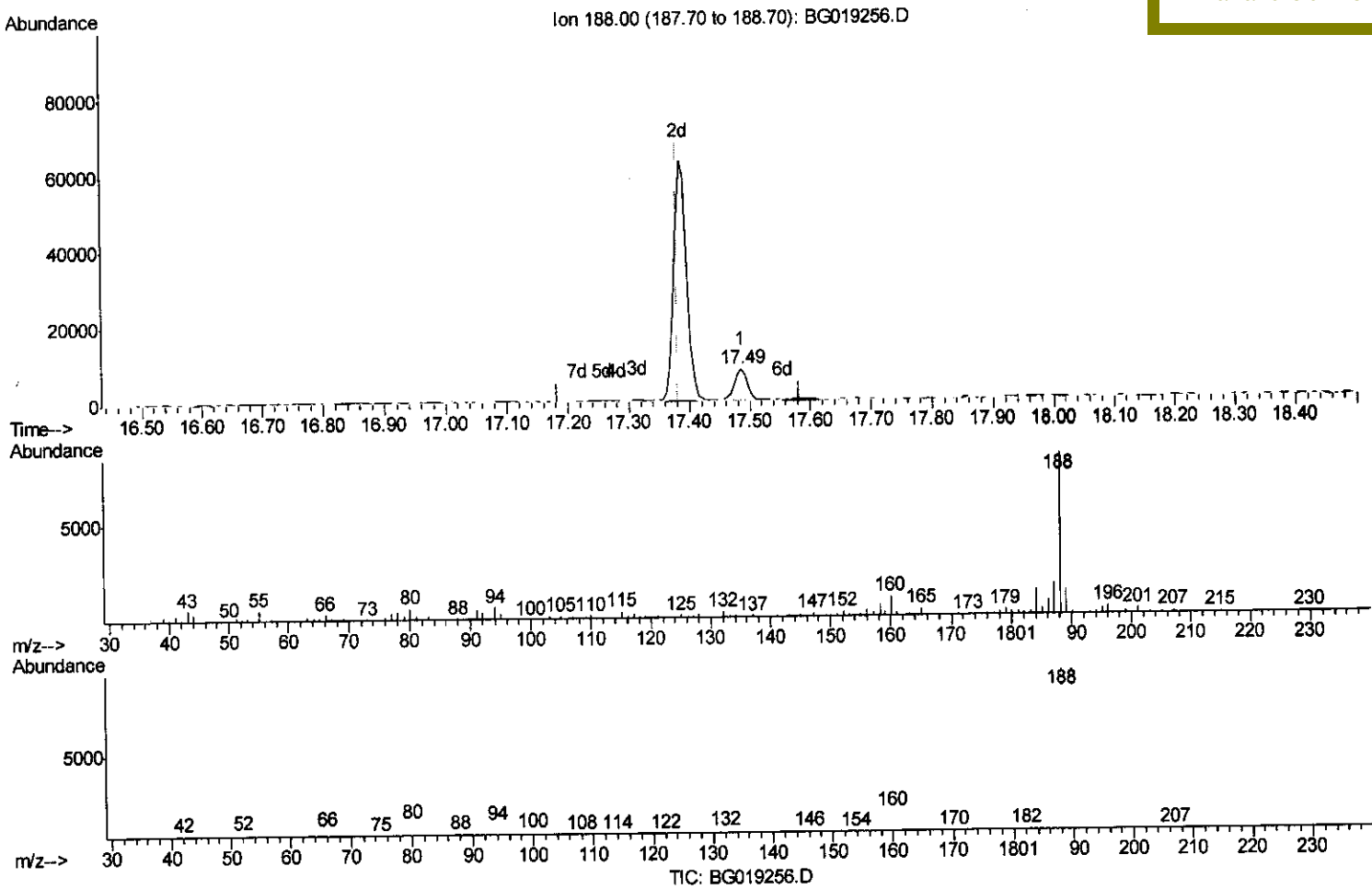
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 06:06:23 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(62) Phenanthrene-d10 (I)

17.485min (+0.103) 20.00ng/ul

response 12530

Ion	Exp%	Act%
188.00	100	100
94.00	9.20	9.05
80.00	10.90	8.80
0.00	0.00	0.00

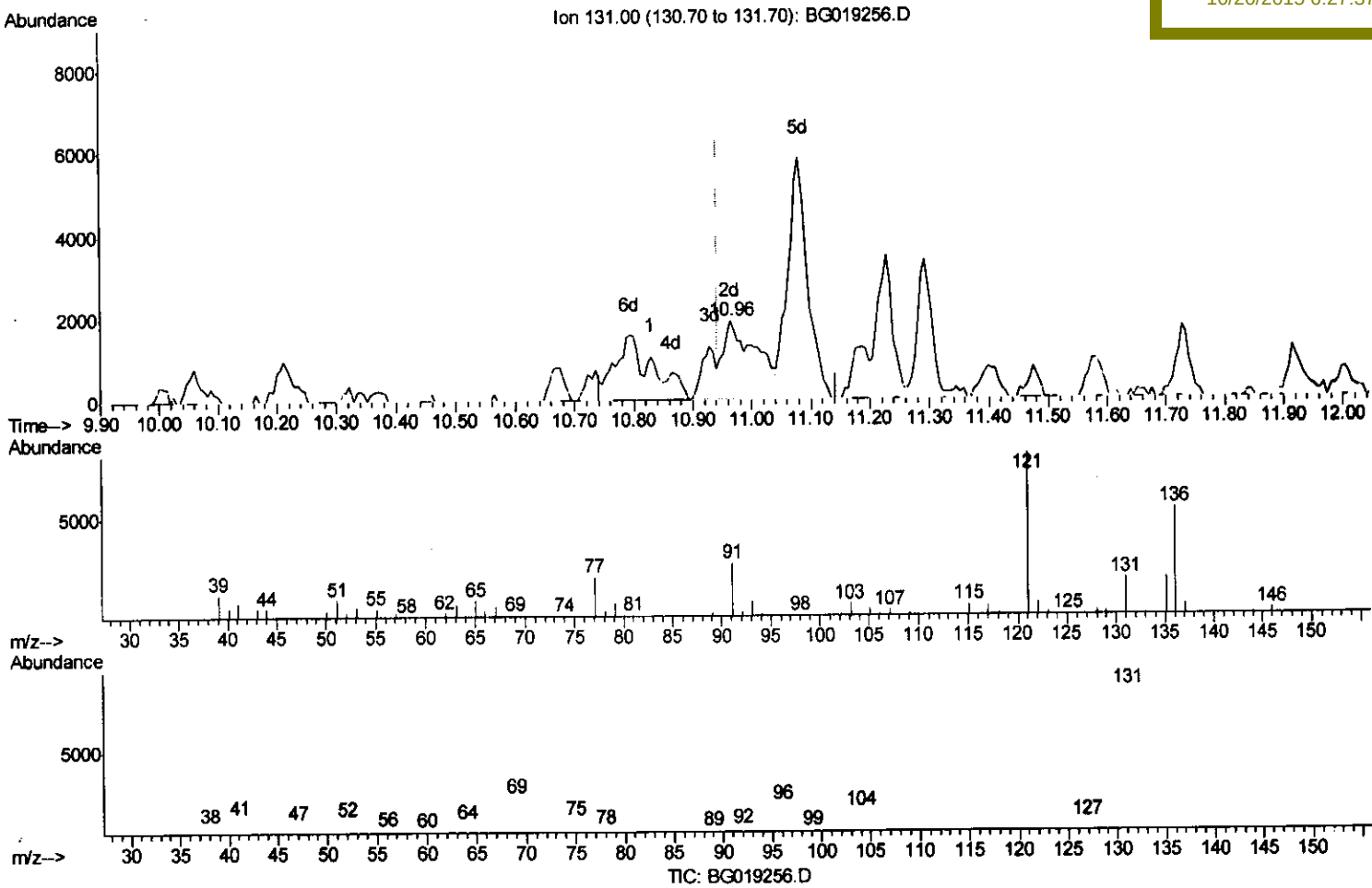
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 06:06:23 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(29) 4-Chloroaniline-d4 (S)

10.963min (+0.021) 7.32ng/ul m U.M 11/3/15

response 9694

Ion	Exp%	Act%
131.00	100	100
133.00	31.50	11.81#
69.00	17.00	10.88#
0.00	0.00	0.00

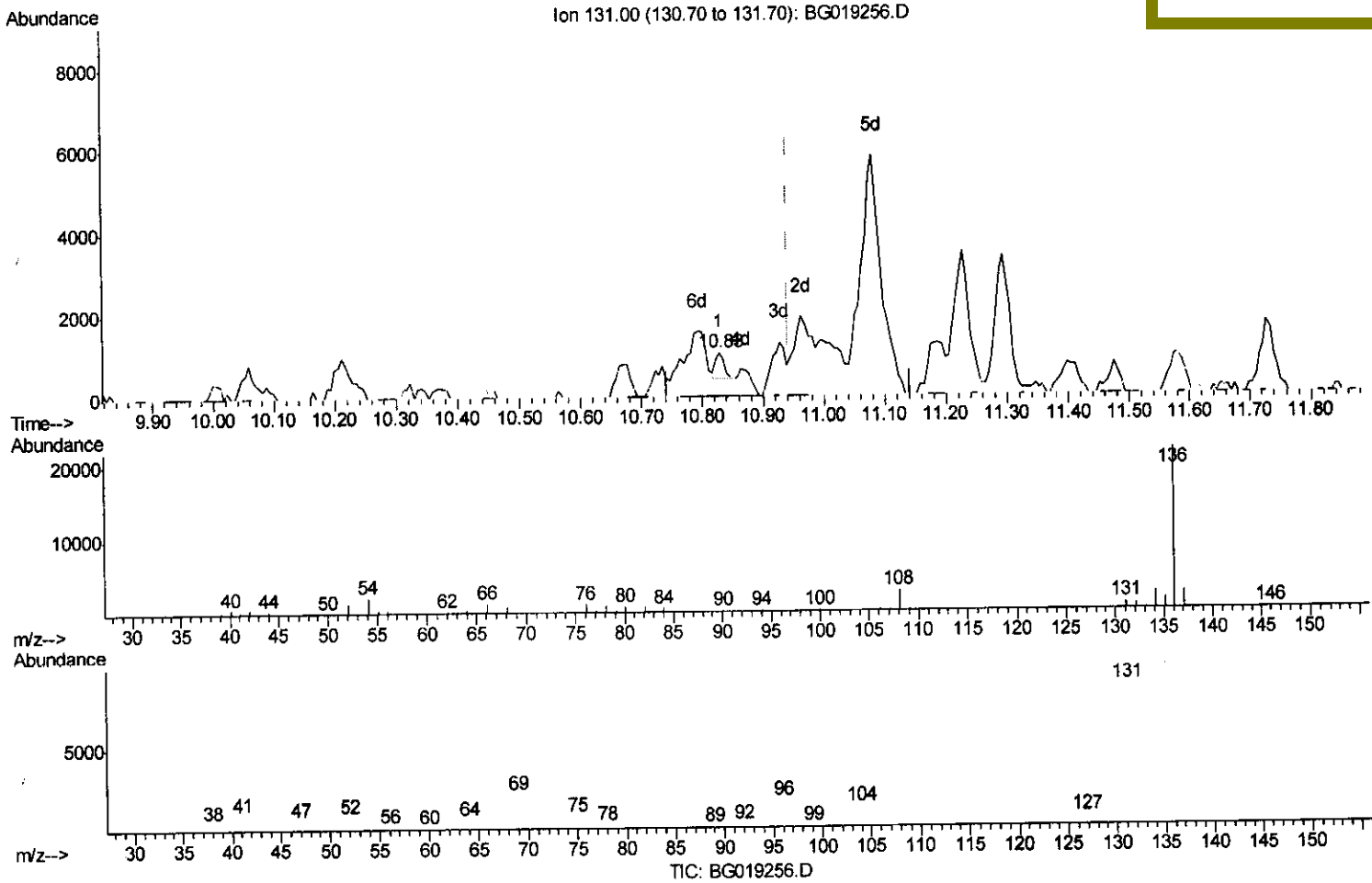
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 06:06:23 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(29) 4-Chloroaniline-d4 (S)

10.828min (-0.114) 0.47ng/ul

response 626

Ion	Exp%	Act%
131.00	100	100
133.00	31.50	33.77
69.00	17.00	19.59
0.00	0.00	0.00

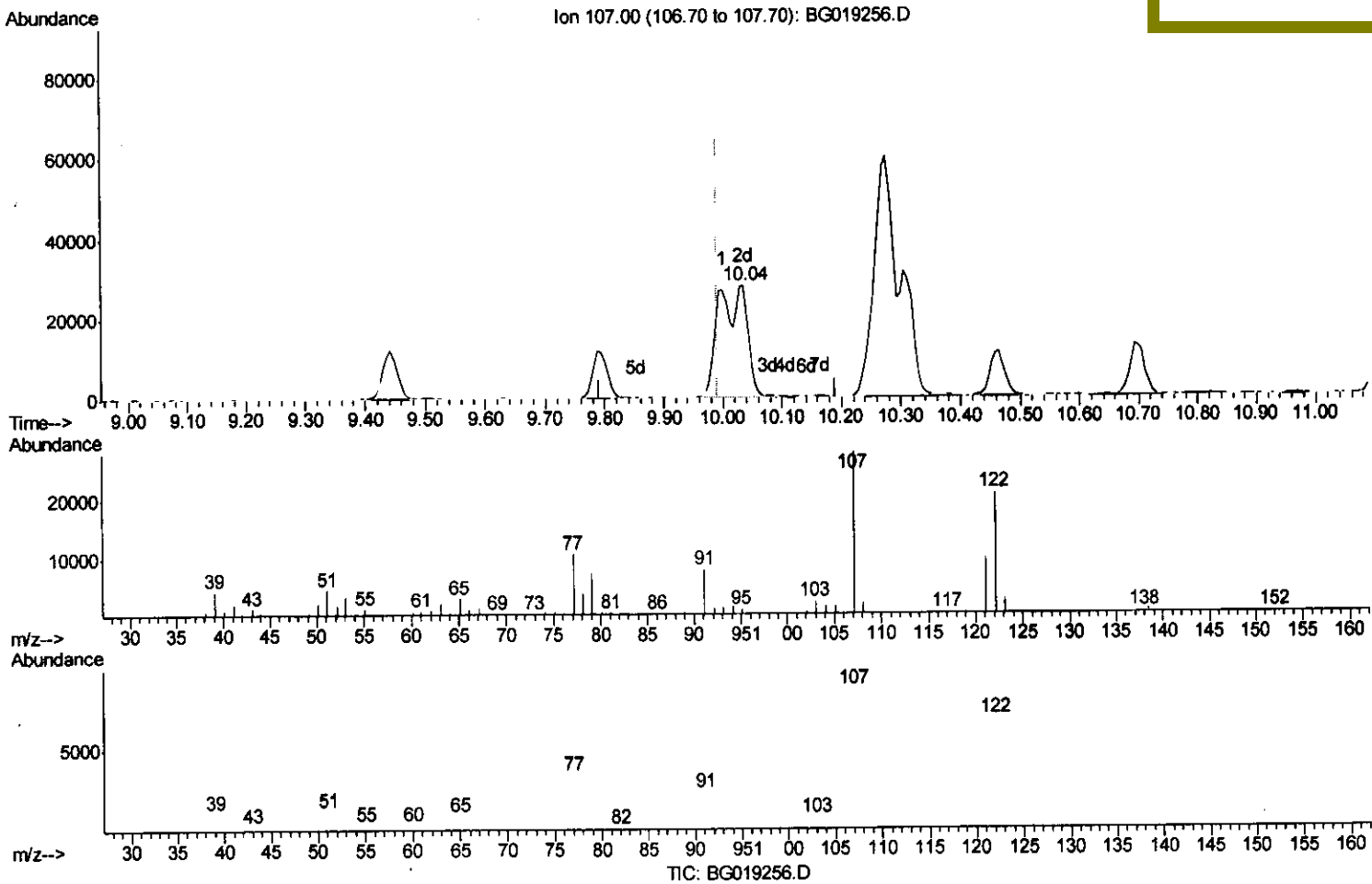
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 06:06:23 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(24) 2,4-Dimethylphenol

10.035min (+0.045) 69.15ng/ul m U.M 11/3/15

response 92461

Ion	Exp%	Act%
107.00	100	100
121.00	46.50	34.53#
122.00	84.50	74.17
0.00	0.00	0.00

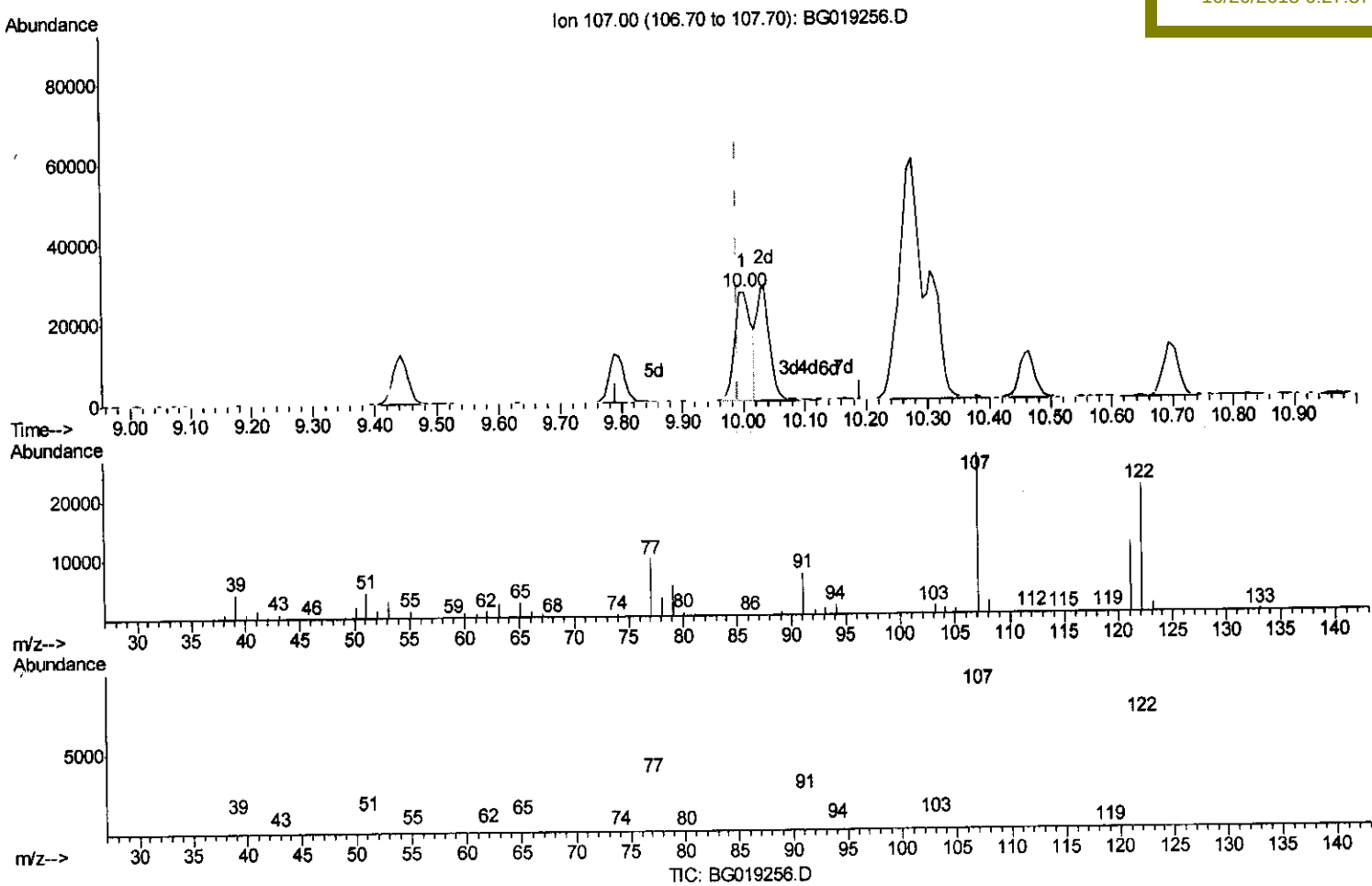
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 06:06:23 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM



(24) 2,4-Dimethylphenol

10.000min (+0.009) 38.97ng/ul

response 52109

Ion	Exp%	Act%
107.00	100	100
121.00	46.50	44.11
122.00	84.50	79.61
0.00	0.00	0.00

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\
Data File : BG019256.D
Acq On : 20 Oct 2015 1:28
Operator : UM/NP
Sample : G3996-16DL 10X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
E5LK5DL

Manual Integrations APPROVED
MMdadoda
10/20/2015 6:27:37 PM

Quant Time: Oct 20 08:12:38 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 20 06:03:40 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.01	152	14473	20.00	ng/ul	0.00
18) Naphthalene-d8	10.82	136	63521	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.64	164	41043	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.39	188	92348m	20.00	ng/ul	0.00
78) Chrysene-d12	21.66	240	108601m	20.00	ng/ul	0.00
86) Perylene-d12	24.86	264	100786	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.44	96	351	1.35	ng/uL	0.00
5) Phenol-d5	7.19	99	3240	2.57	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.34	67	1948	2.40	ng/ul	0.02
9) 2-Chlorophenol-d4	7.54	132	2488	2.70	ng/ul	0.00
13) 4-Methylphenol-d8	8.73	113	2813	2.63	ng/ul	0.00
19) Nitrobenzene-d5	9.17	128	1313	2.68	ng/ul	0.00
22) 2-Nitrophenol-d4	9.89	143	1411	2.72	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.45	165	2810	2.73	ng/ul	0.02
29) 4-Chloroaniline-d4	10.96	131	9694m	7.32	ng/ul	0.02
44) Dimethylphthalate-d6	14.05	166	9298	2.59	ng/ul	0.00
47) Acenaphthylene-d8	14.33	160	10340	2.66	ng/ul	0.00
52) 4-Nitrophenol-d4	14.87	143	1613	2.50	ng/ul	0.02
58) Fluorene-d10	15.63	176	9313	3.04	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.79	200	96	0.17	ng/ul	0.04
71) Anthracene-d10	17.49	188	11968	2.74	ng/ul	0.00
79) Pyrene-d10	19.77	212	13438m	2.73	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.64	264	14737	2.89	ng/ul	0.00
Target Compounds						Qvalue
6) Phenol	7.22	94	27358	20.80	ng/ul#	85
11) 2-Methylphenol	8.47	108	52495	50.85	ng/ul	96
16) 4-Methylphenol	8.81	108	139925	120.80	ng/ul	99
24) 2,4-Dimethylphenol	10.04	107	92461m	69.15	ng/ul	
28) Naphthalene	10.86	128	19181	5.78	ng/ul	99
34) 2-Methylnaphthalene	12.47	142	17505	6.65	ng/ul	95
35) 1-Methylnaphthalene	12.68	142	10975	4.26	ng/ul#	94
59) Fluorene	15.68	166	3988	1.15	ng/ul	96

U.M 11/3/15

U.M 11/3/15

U.M 11/3/15

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