

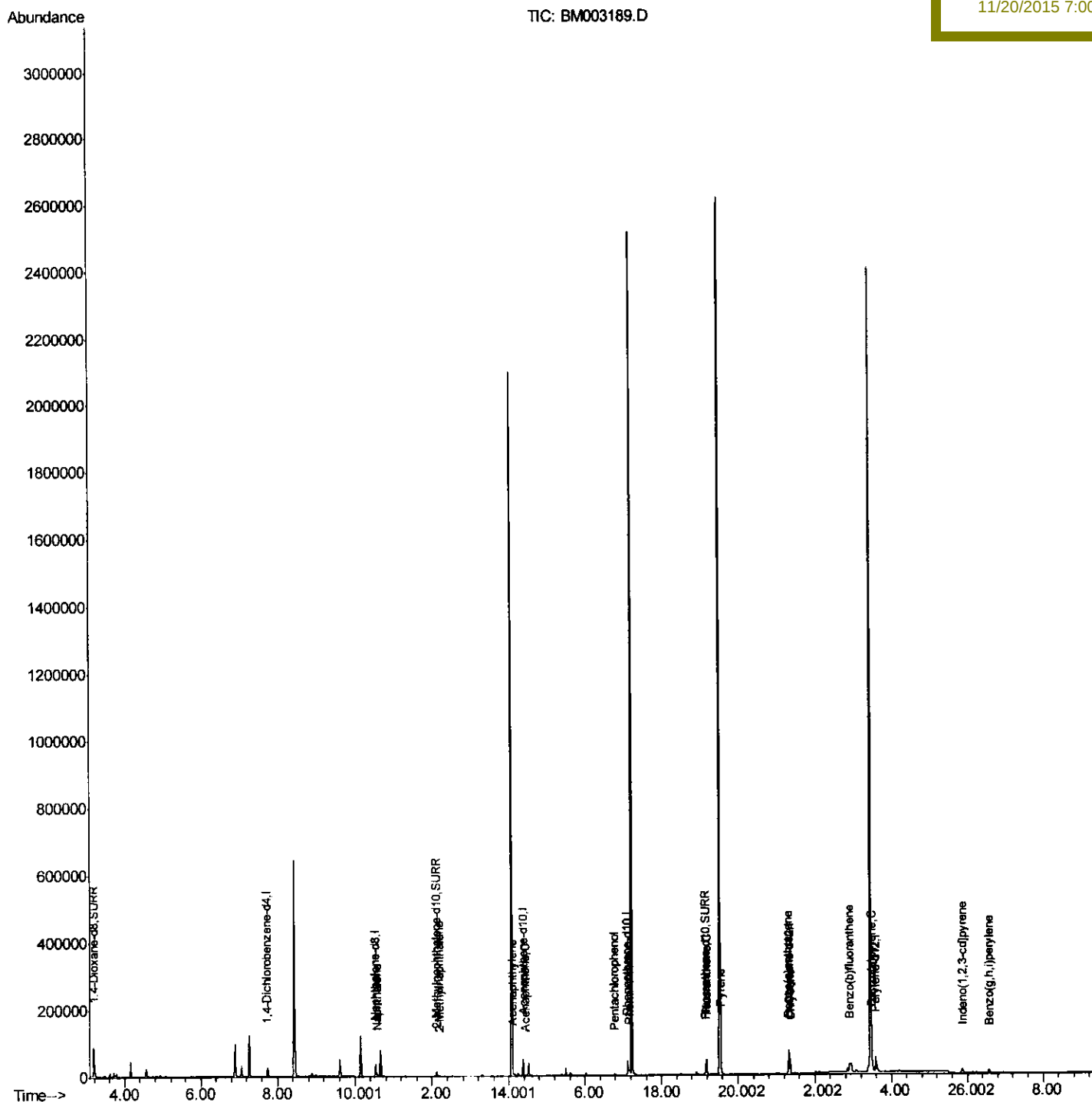
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
Data File : BM003189.D
Acq On : 19 Nov 2015 13:10
Operator : UM/IZ
Sample : G4323-01
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 07:14:08 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4HT2

Manual Integrations
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11/20/2015 7:00:04 PM



Quantitation Report (Qedit)

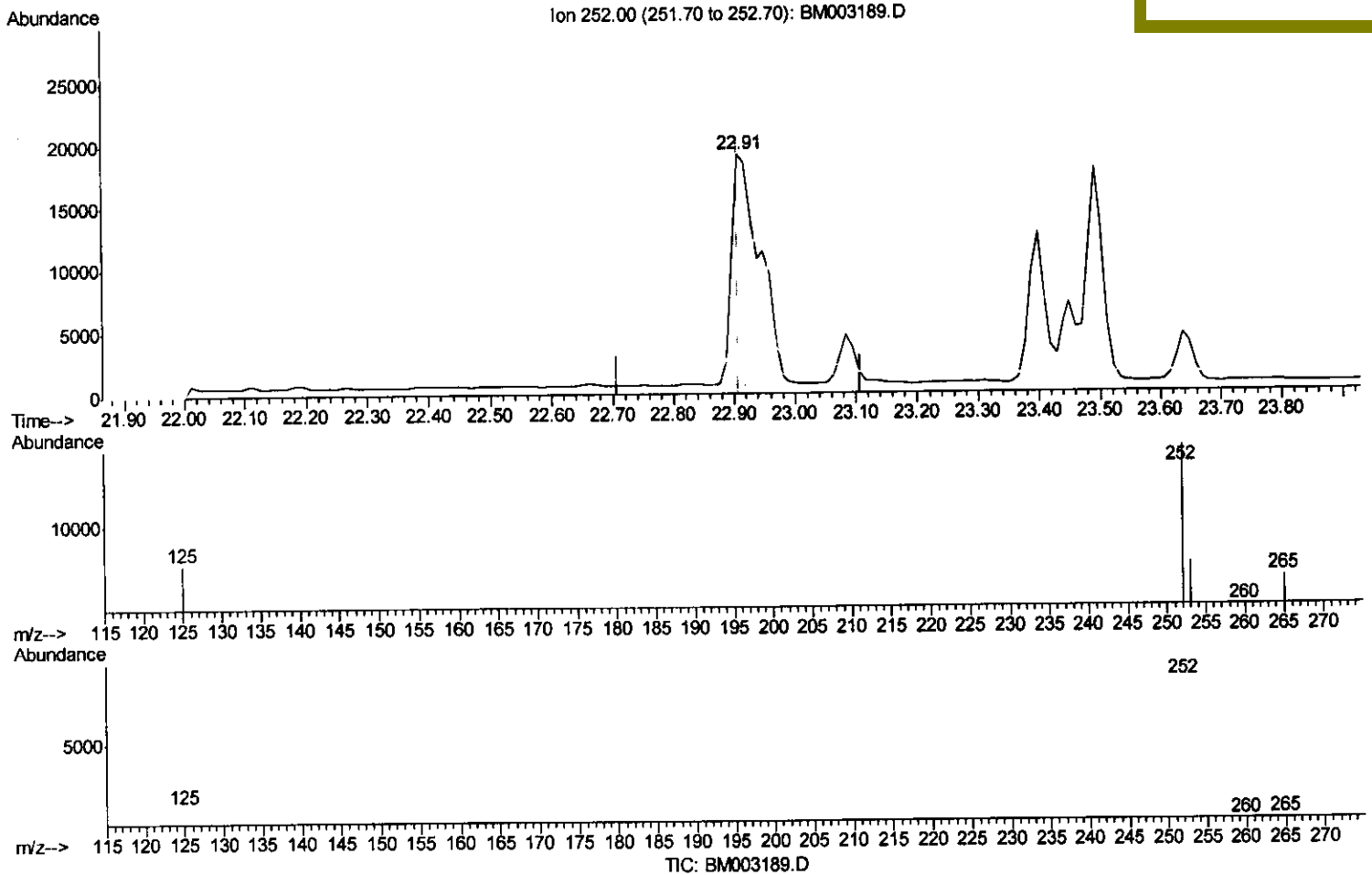
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
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(23) Benzo(b)fluoranthene

22.907min (-0.000) 0.16ng/ul

response 37940

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	27.57
125.00	14.40	28.30
0.00	0.00	0.00

Quantitation Report (Qedit)

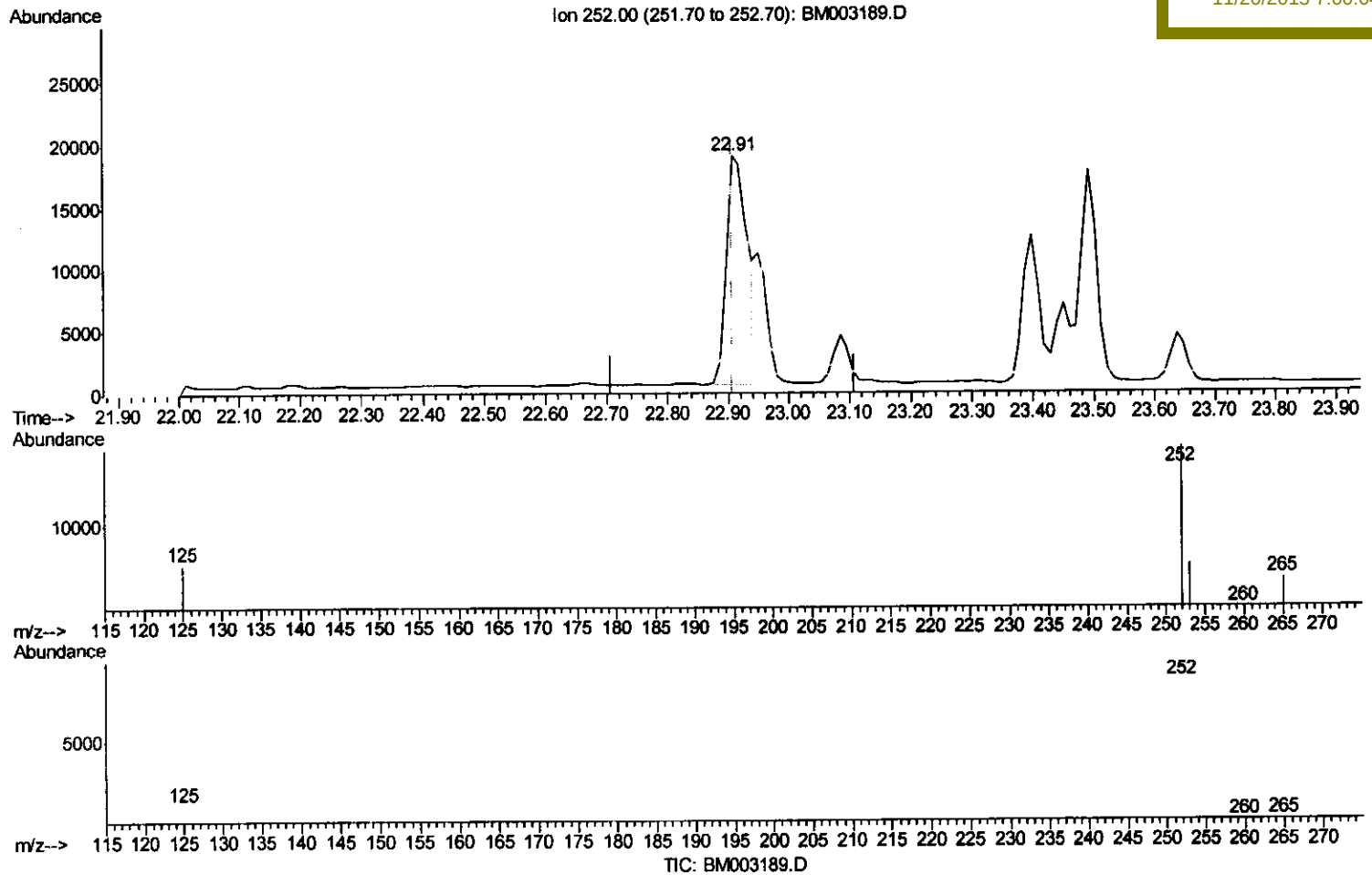
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM



(23) Benzo(b)fluoranthene

22.907min (-0.000) 0.19ng/ul m

response 44034

U.M.
 11/21/15

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	27.57
125.00	14.40	28.30
0.00	0.00	0.00

Quantitation Report (Qedit)

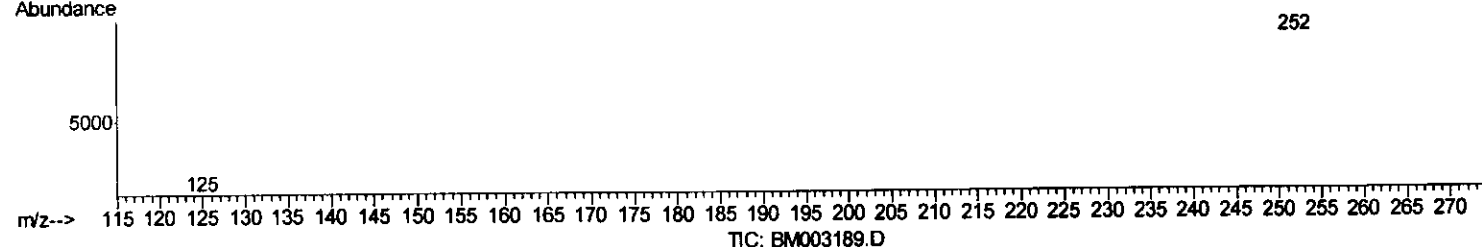
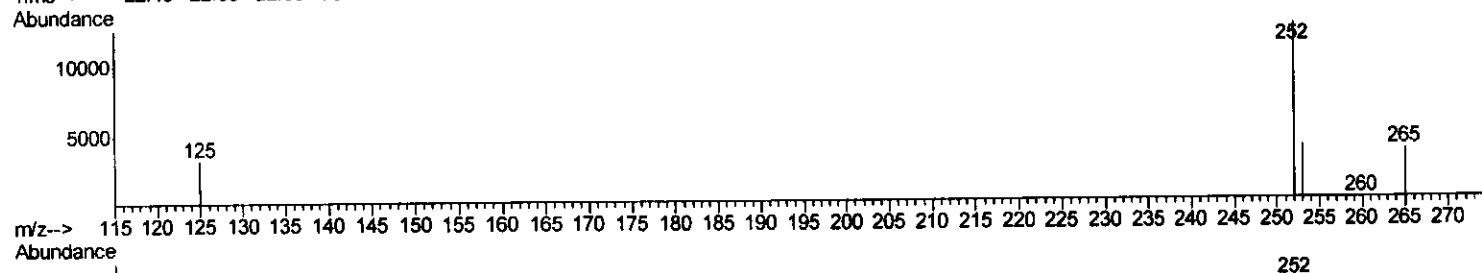
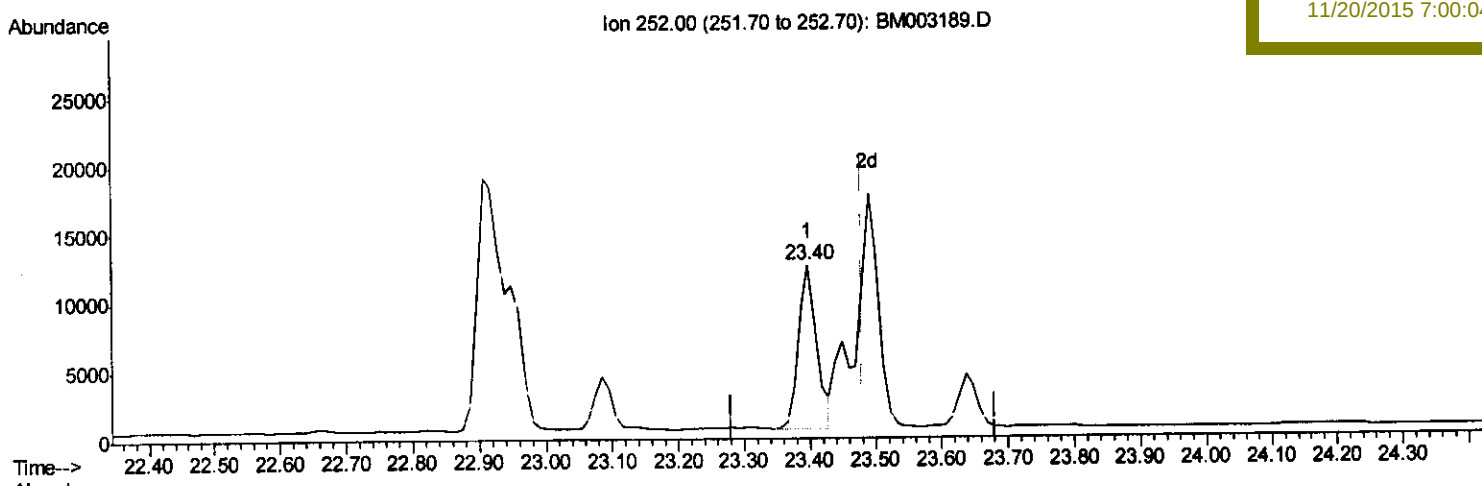
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 11/20/2015 7:00:04 PM



(25) Benzo(a)pyrene (C)

23.397min (-0.083) 0.11ng/ul

response 23272

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	31.51#
125.00	15.90	25.81#
0.00	0.00	0.00

Quantitation Report (Qedit)

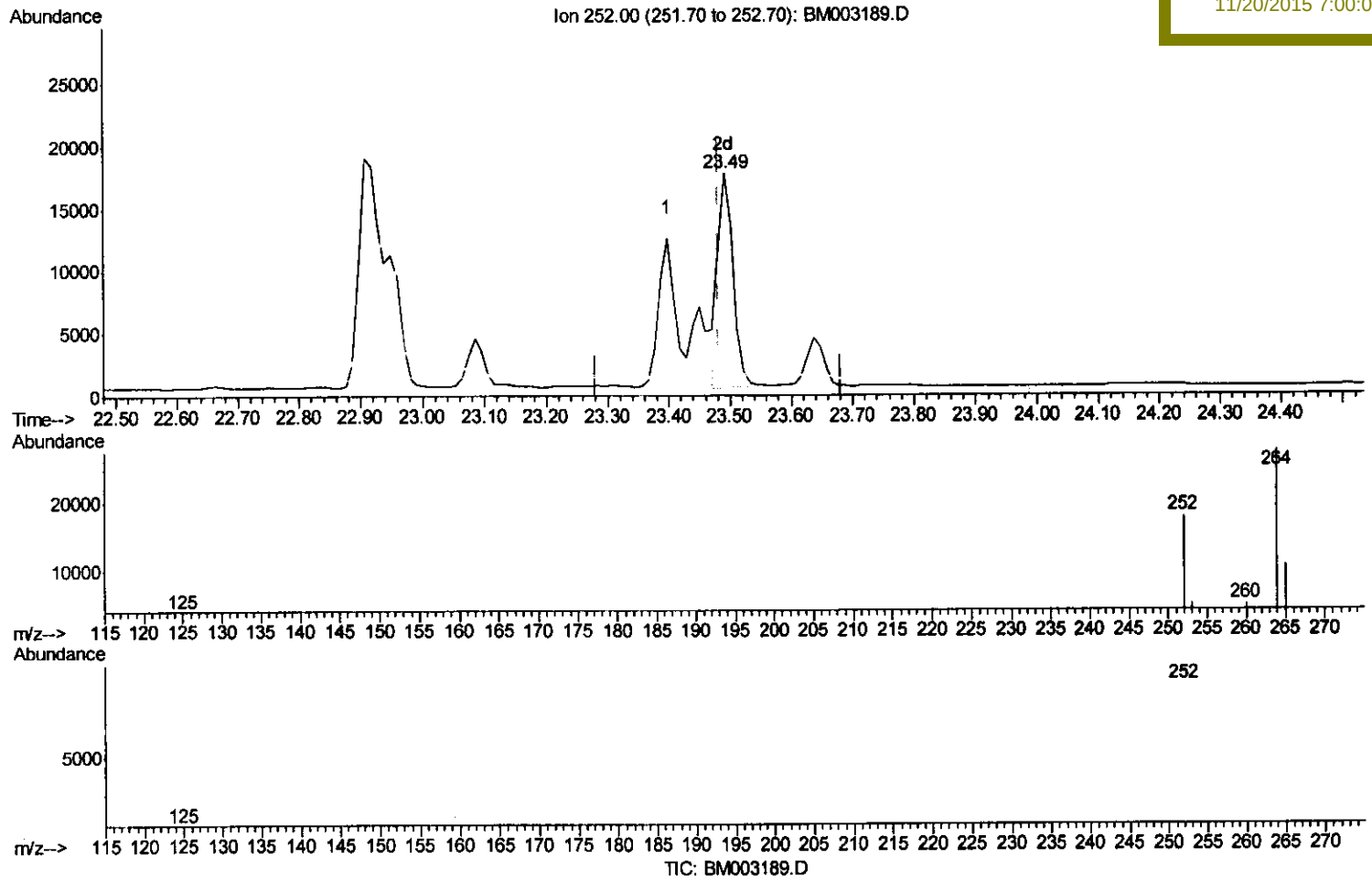
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Manual Integrations
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Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration



(25) Benzo(a)pyrene (C)

23.491min (+0.010) 0.14ng/ul m

response 29540

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	28.84
125.00	15.90	23.06#
0.00	0.00	0.00

U.M.
 11/21/15

Quantitation Report (Qedit)

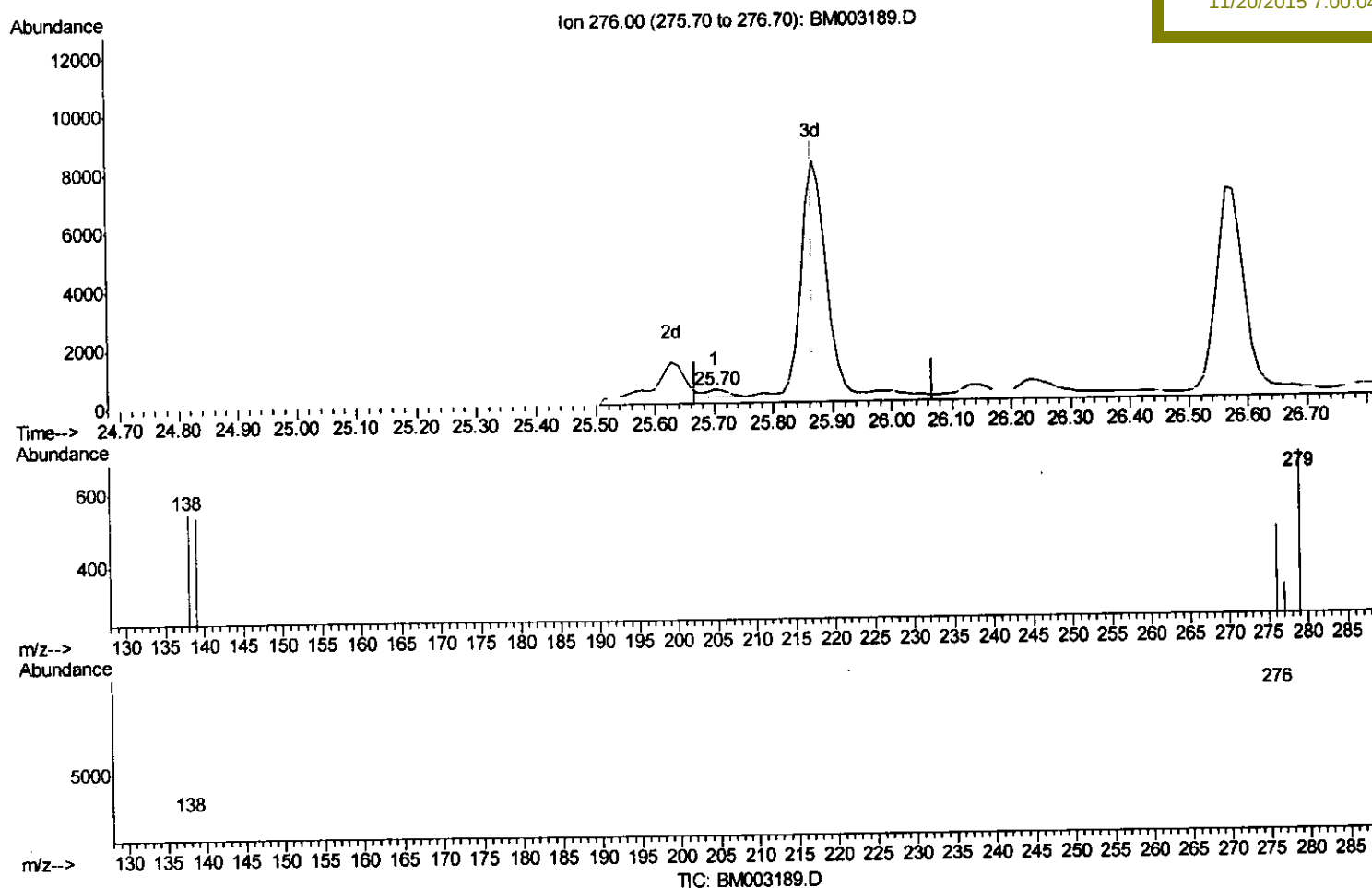
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 11/20/2015 7:00:04 PM



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

25.701min (-0.167) 0.00ng/ul

response 525

ion	Exp%	Act%
276.00	100	100
138.00	0.00	0.00
277.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

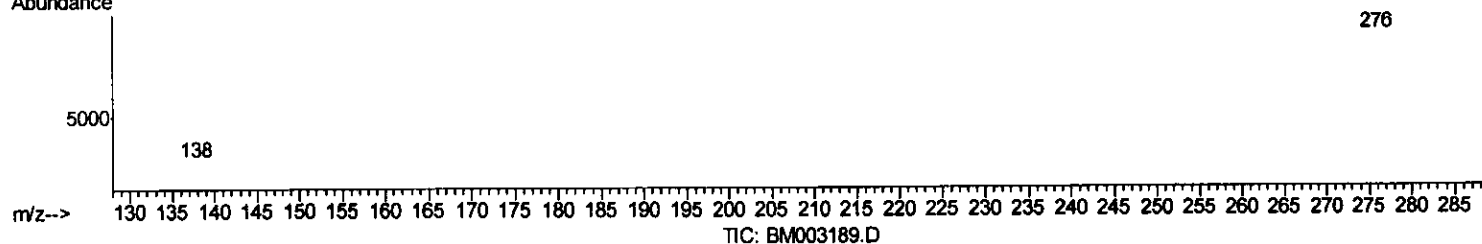
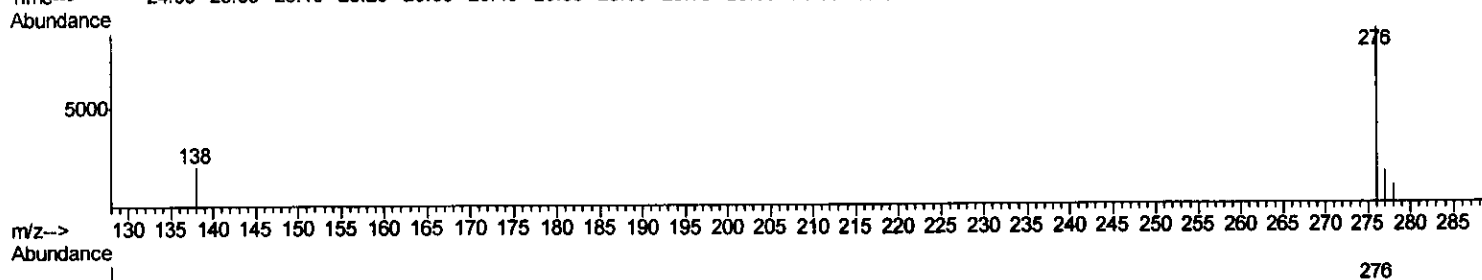
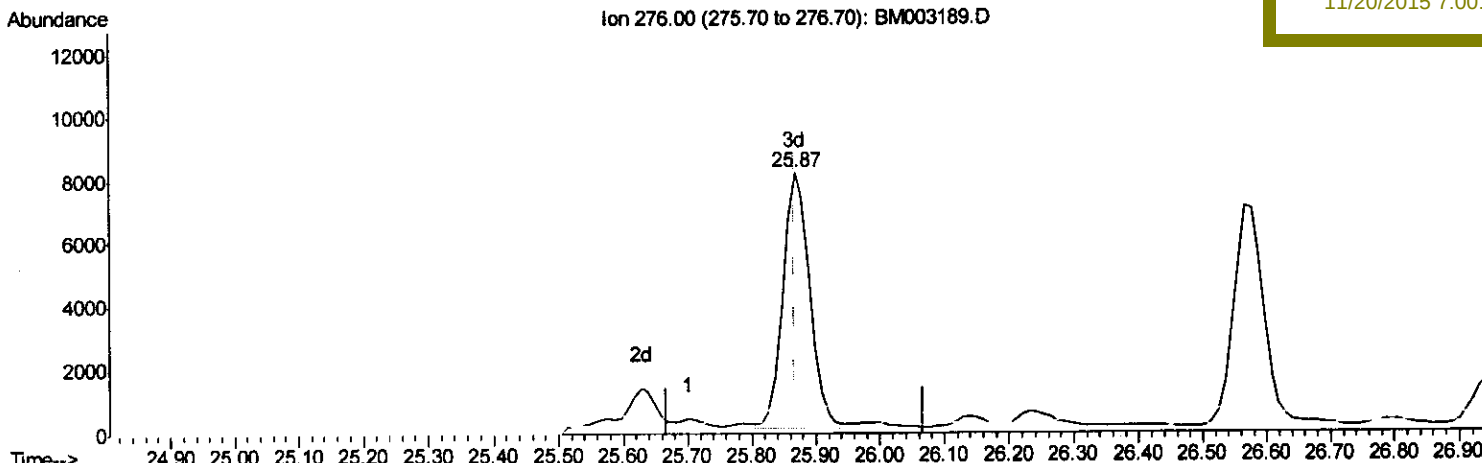
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM



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

25.868min (-0.000) 0.09ng/ul m

response 23115

Ion	Exp%	Act%
276.00	100	100
138.00	0.00	0.00
277.00	0.00	0.00
0.00	0.00	0.00

> U.M.
 11/21/15

Quantitation Report (Qedit)

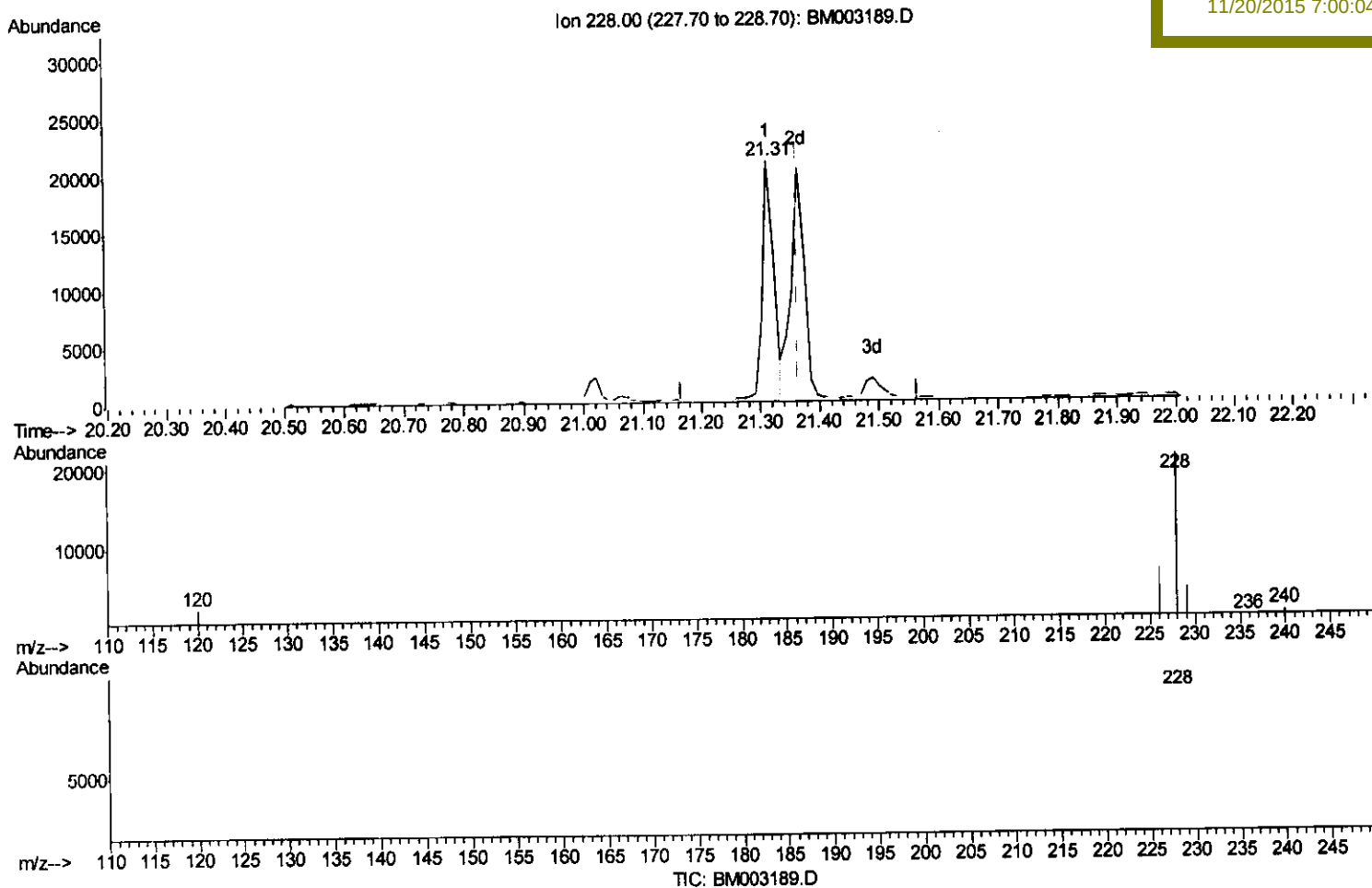
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Manual Integrations
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Quant Time: Nov 20 07:10:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Qlast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration



(21) Chrysene

21.312min (-0.052) 0.14ng/ul

response 27920

Ion	Exp%	Act%
228.00	100	100
226.00	26.50	31.66
229.00	21.30	20.24
0.00	0.00	0.00

Quantitation Report (Qedit)

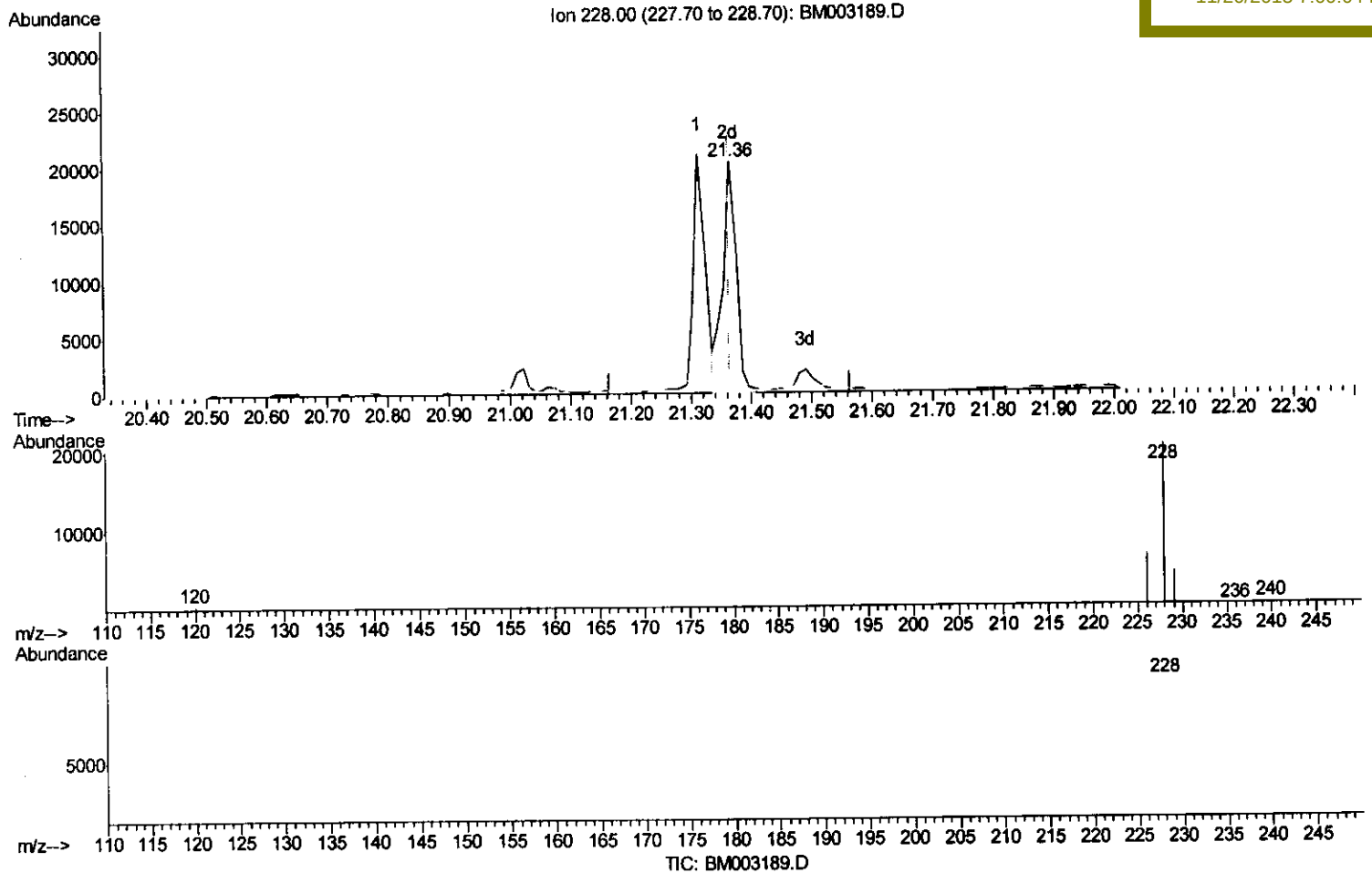
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:10:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM



(21) Chrysene

21.365min (-0.000) 0.16ng/ul m

response 31402

Ion	Exp%	Act%
228.00	100	100
226.00	26.50	31.91#
229.00	21.30	21.67
0.00	0.00	0.00

> U.M.
 11/21/15

Quantitation Report (Qedit)

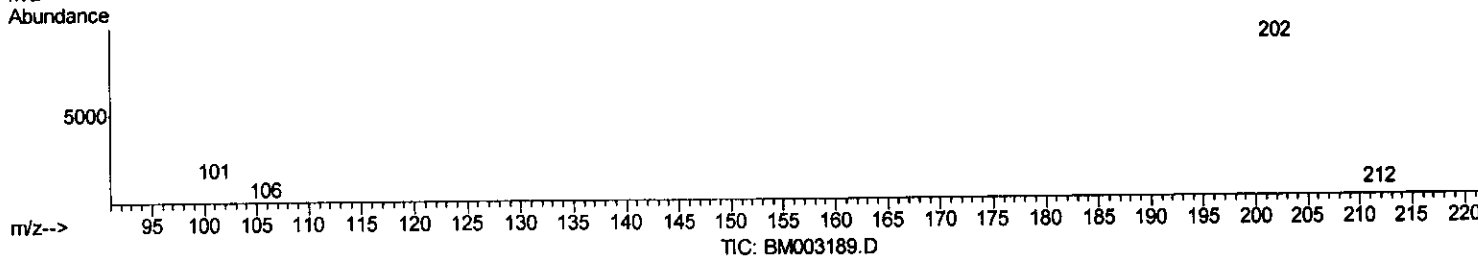
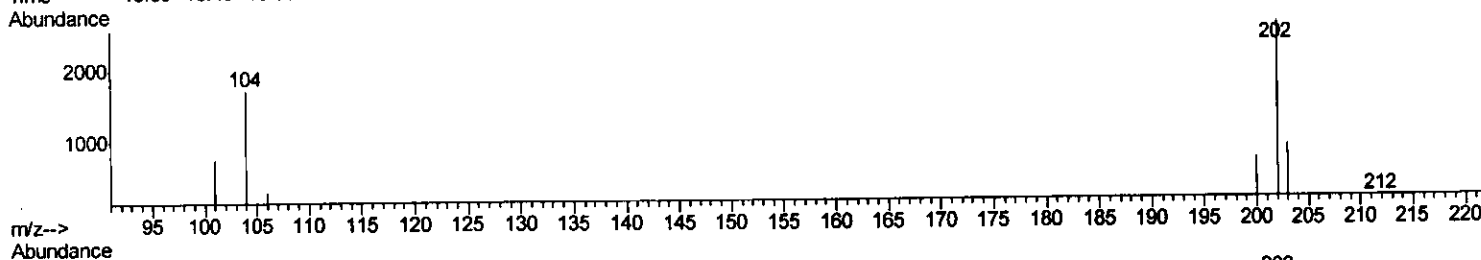
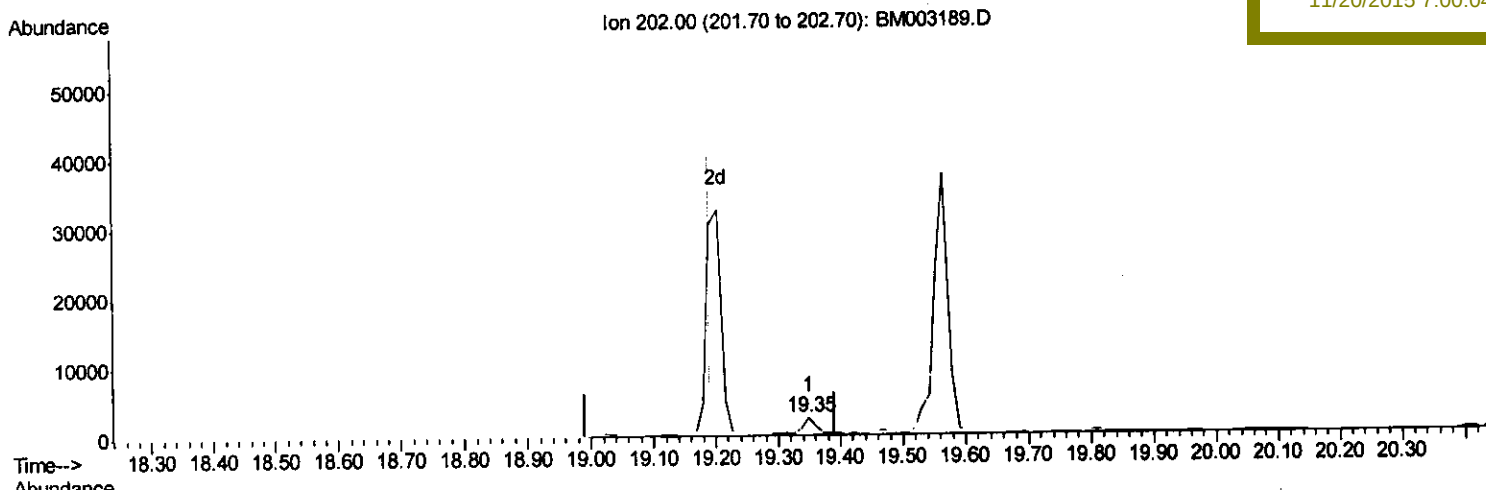
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:10:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 11/20/2015 7:00:04 PM



(17) Fluoranthene (C)

19.348min (+0.157) 0.02ng/ul

response 3275

Ion	Exp%	Act%
202.00	100	100
101.00	9.60	28.85
203.00	16.30	33.63
0.00	0.00	0.00

Quantitation Report (Qedit)

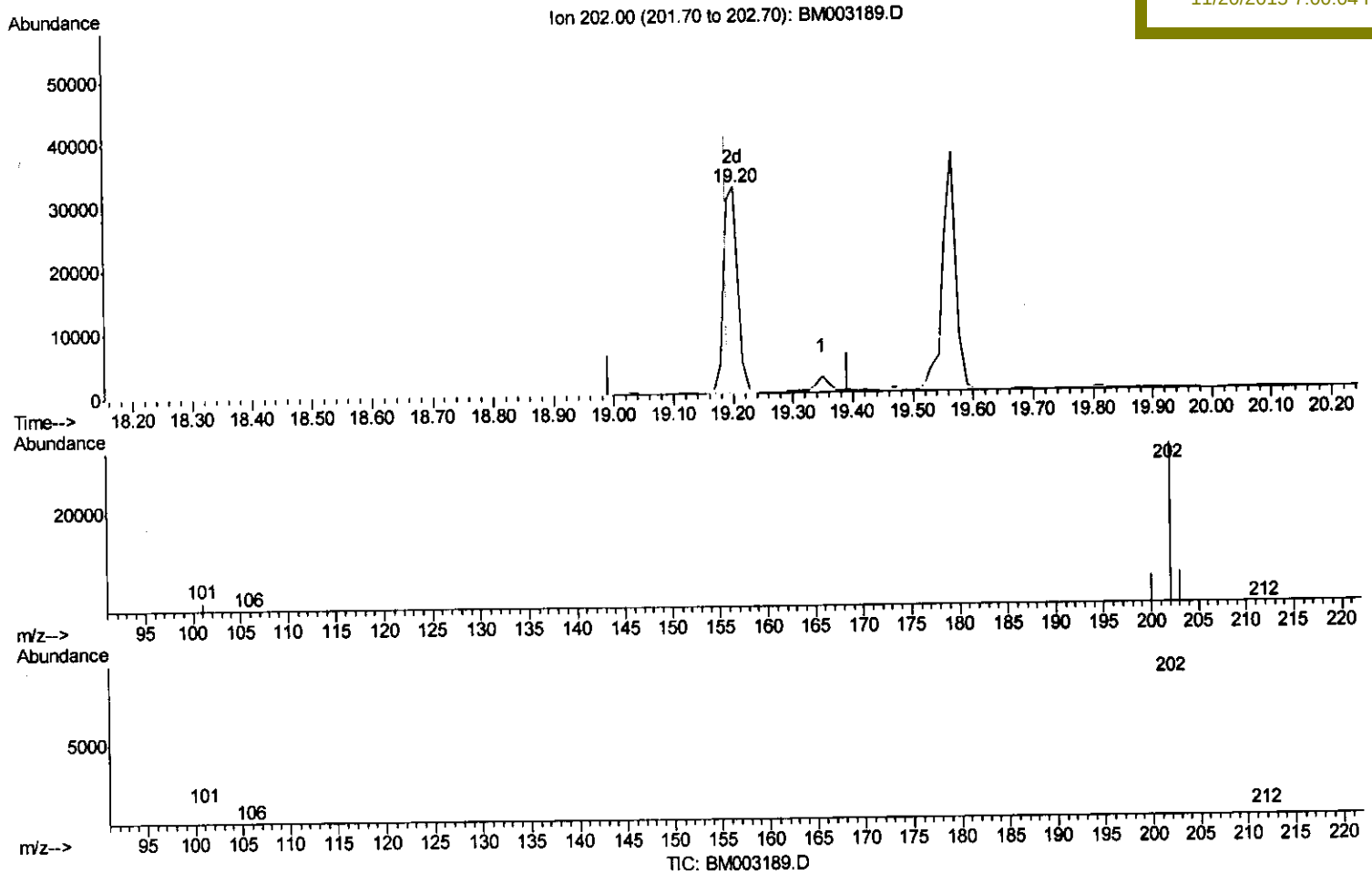
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 20 07:10:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM



(17) Fluoranthene (C)

19.203min (+0.012) 0.26ng/ul m

response 53389

Ion	Exp%	Act%
202.00	100	100
101.00	9.60	6.48
203.00	16.30	20.07
0.00	0.00	0.00

> U.M.
 11/21/15

Quantitation Report (Qedit)

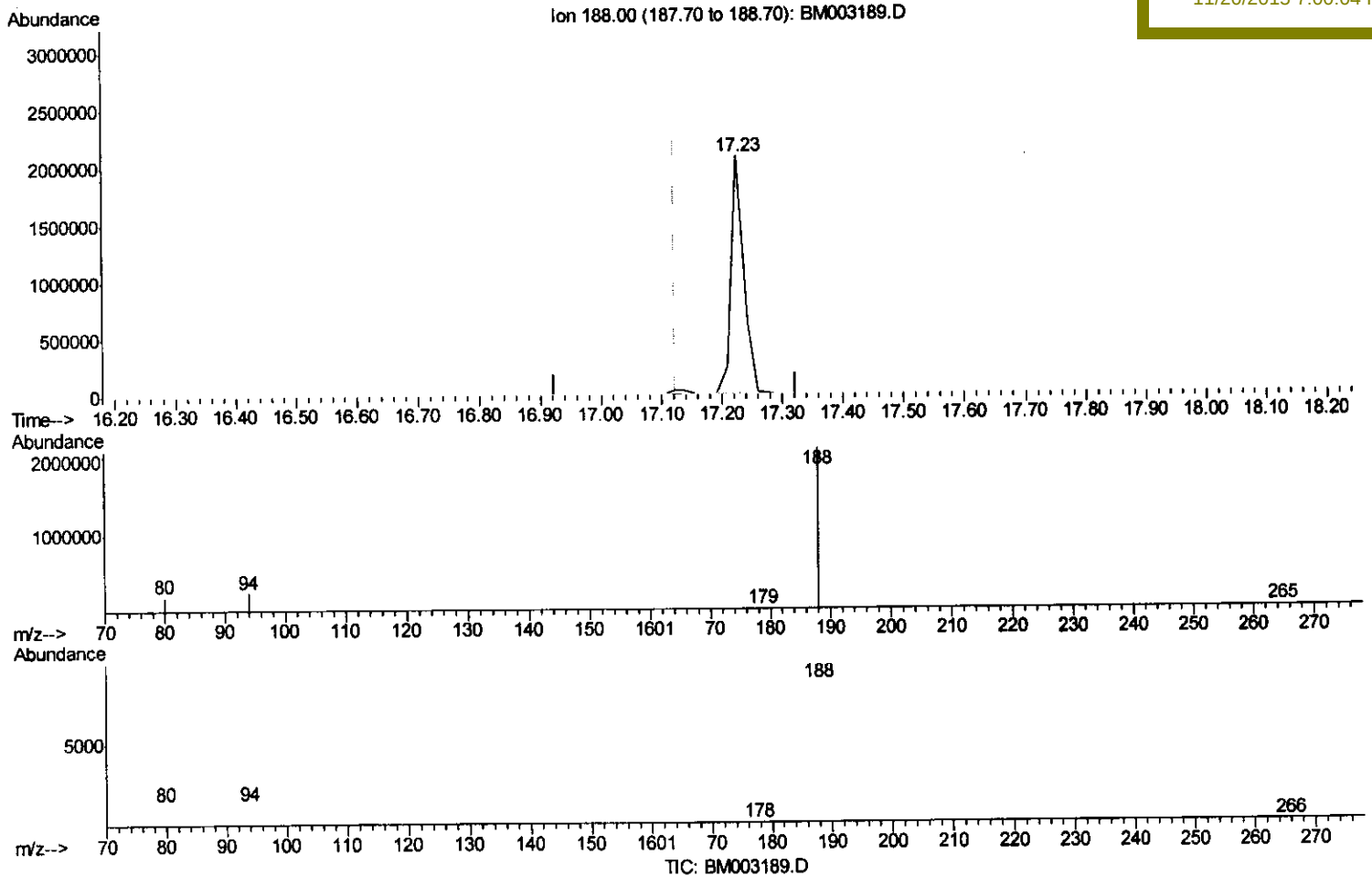
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:09:48 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 11/20/2015 7:00:04 PM



(12) Phenanthrene-d10 (I)

17.226min (+0.103) 0.40ng/ul

response 3027955

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	11.63
80.00	11.90	9.23#
0.00	0.00	0.00

Quantitation Report (Qedit)

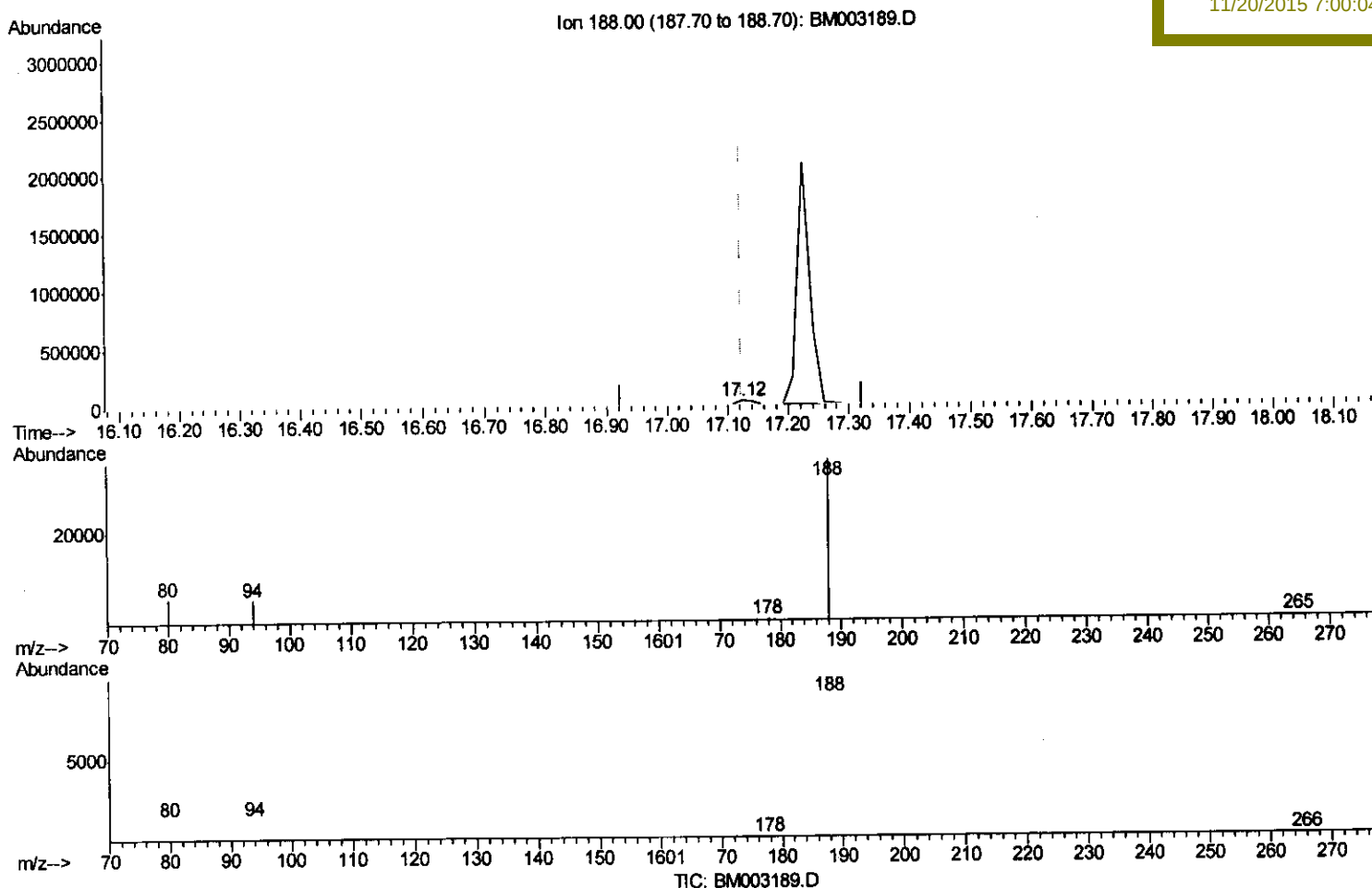
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:09:48 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM



(12) Phenanthrene-d10 (I)

17.123min (-0.000) 0.40ng/ul m

> U.M.
 11/21/15

response 64334

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	14.34#
80.00	11.90	14.97#
0.00	0.00	0.00

Quantitation Report (Qedit)

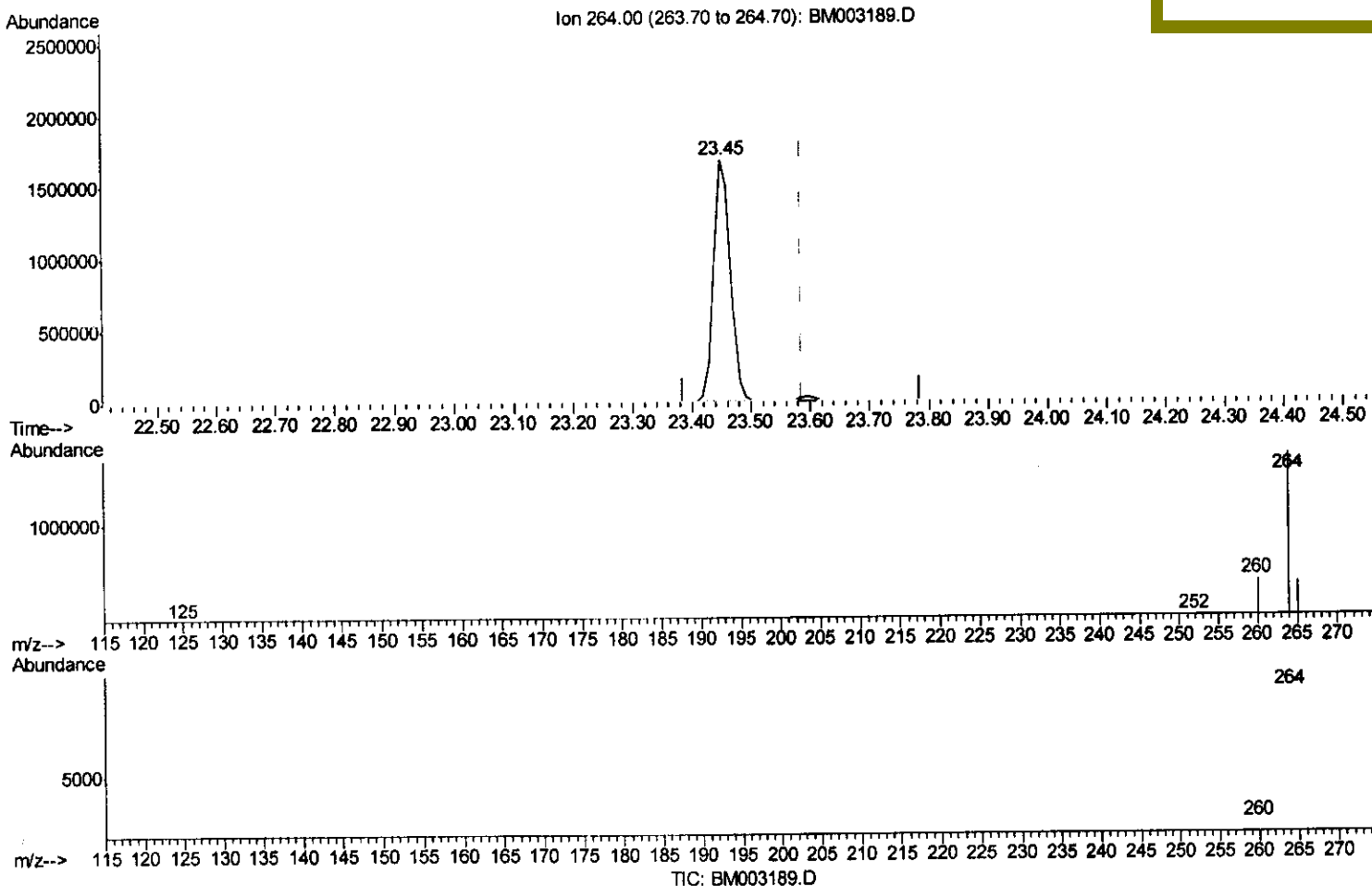
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:10:23 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 11/20/2015 7:00:04 PM



(22) Perylene-d12 (I)

23.449min (-0.136) 0.40ng/ul

response 3249480

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	22.16
265.00	38.20	20.85#
0.00	0.00	0.00

Quantitation Report (Qedit)

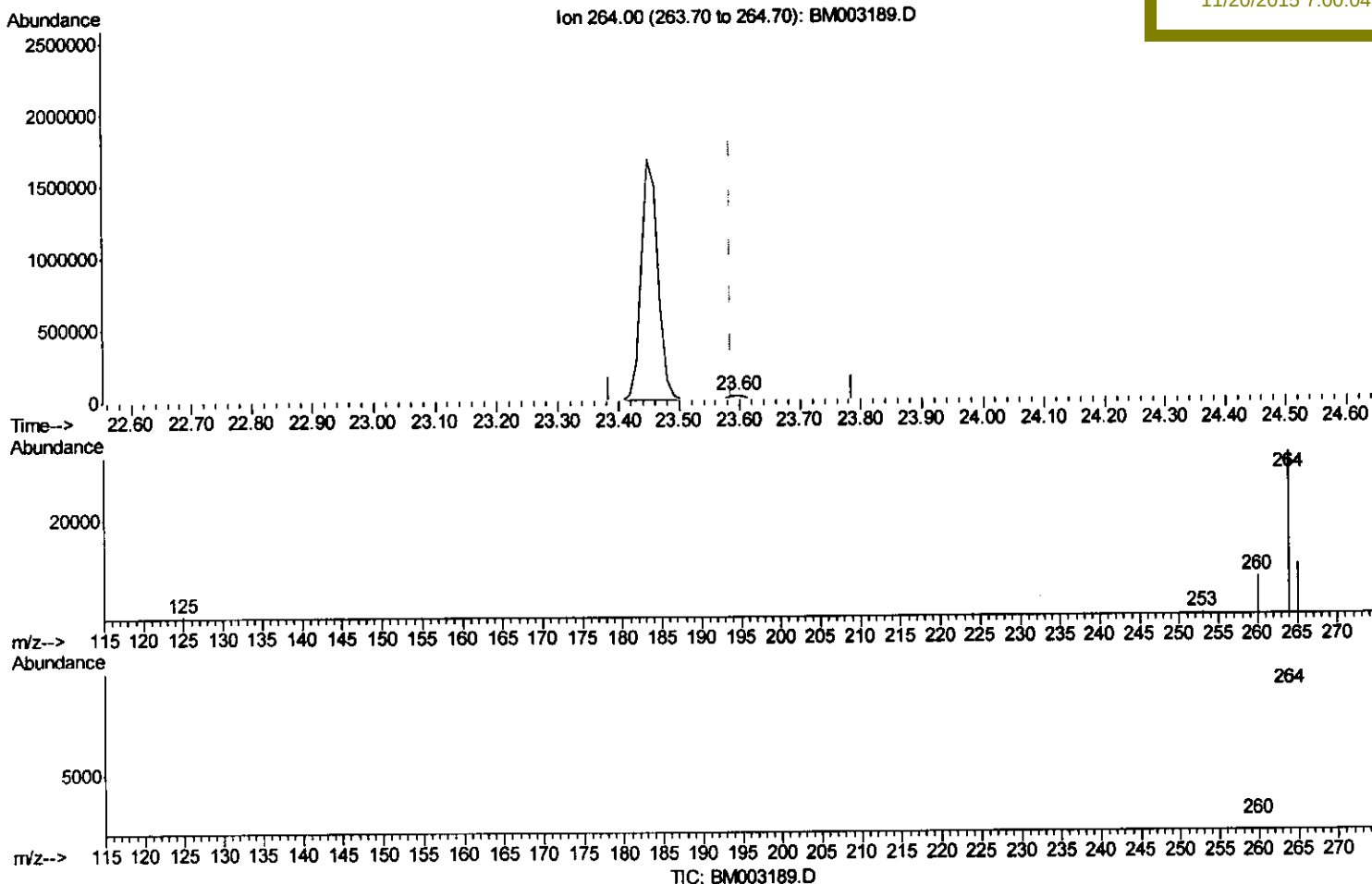
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM



(22) Perylene-d12 (I)

23.595min (+0.010) 0.40ng/ul m

response 61518

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	25.44
265.00	38.20	32.45
0.00	0.00	0.00

> $\frac{0.14}{11/21/15}$

Quantitation Report (Qedit)

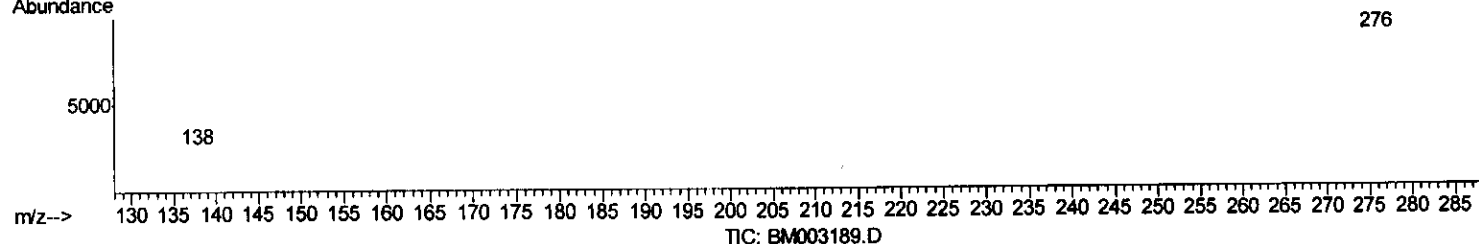
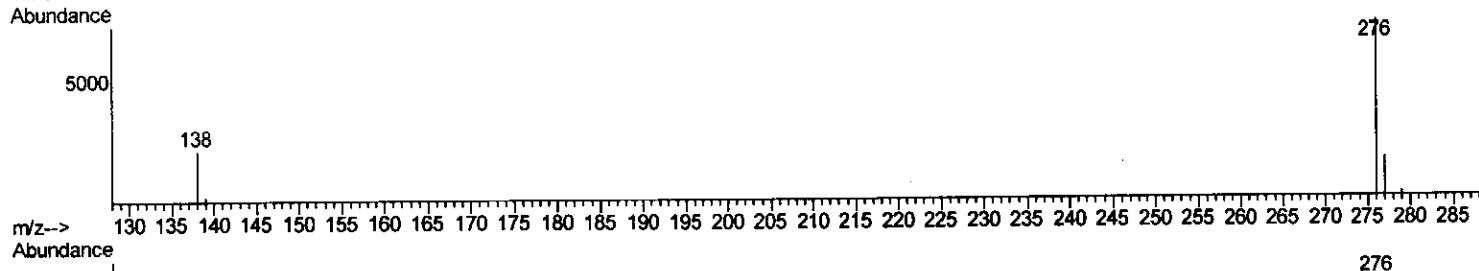
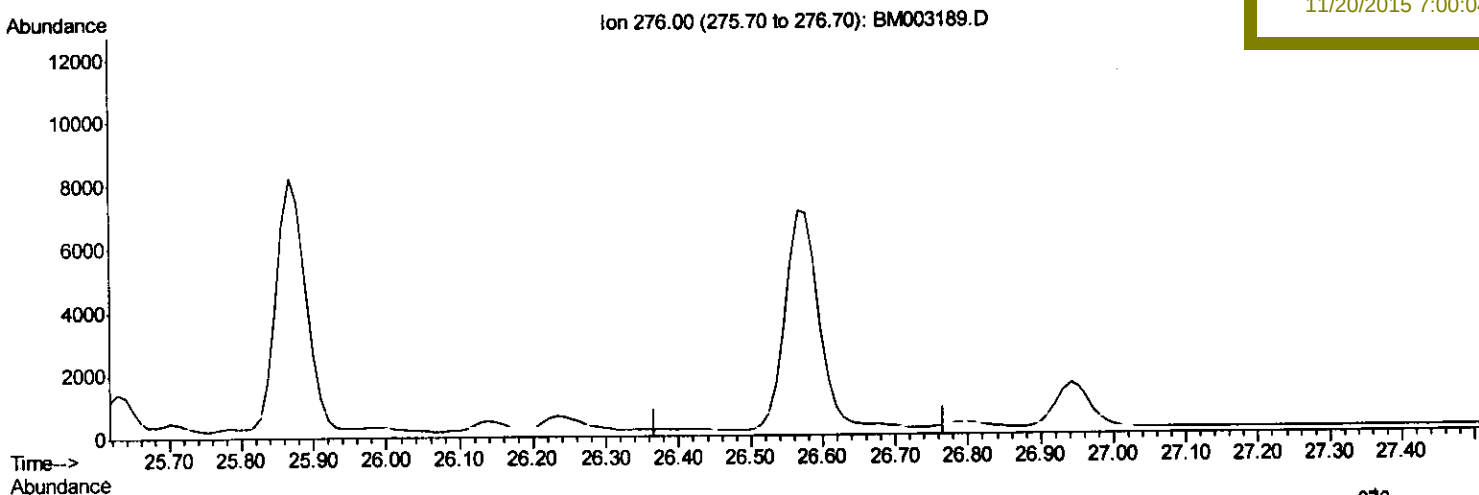
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM



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

26.566min (-26.566) 0.00ng/ul

response 0

Ion	Exp%	Act%
276.00	100	0.00
277.00	23.60	0.00#
138.00	28.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

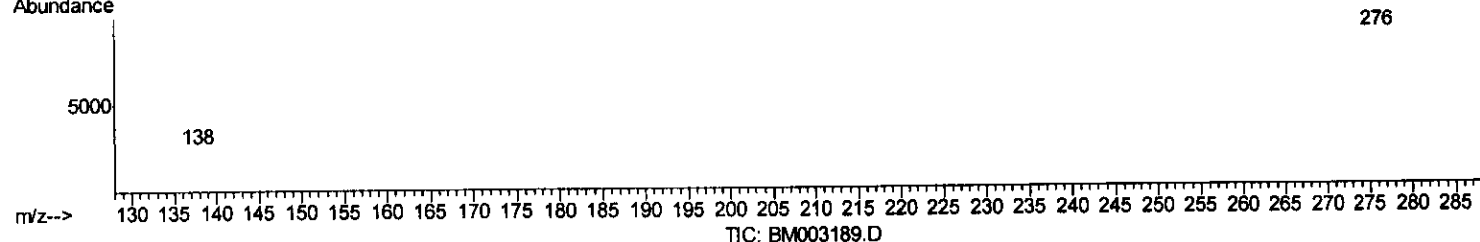
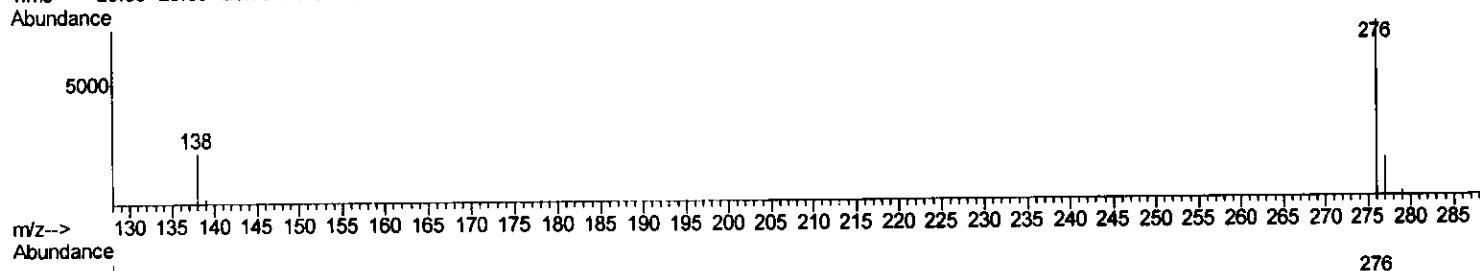
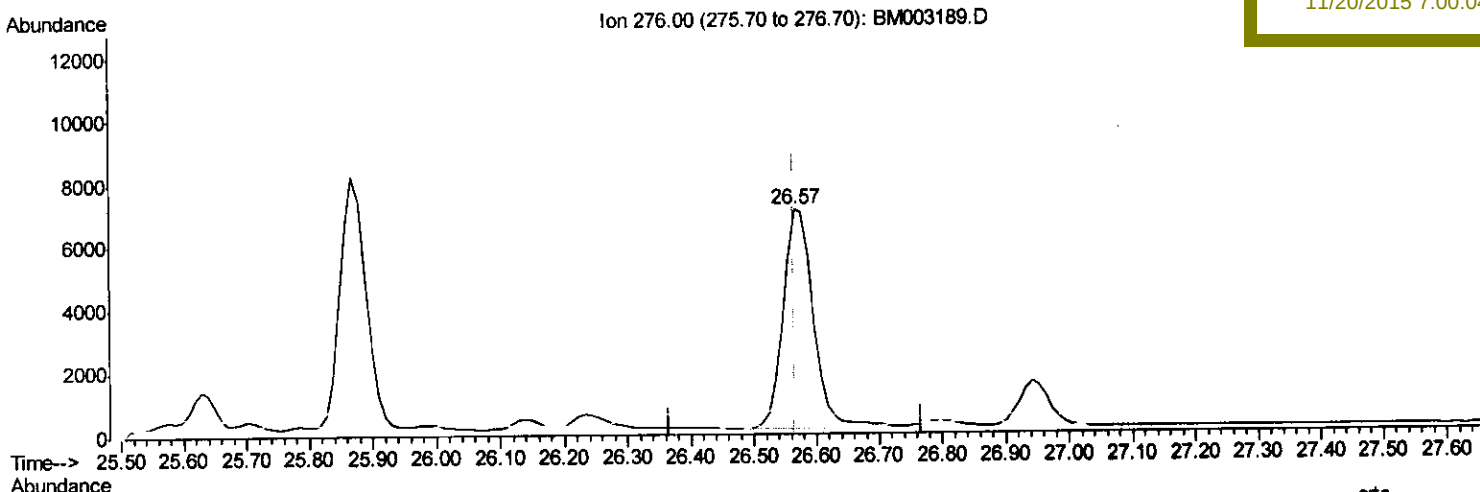
Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
 Data File : BM003189.D
 Acq On : 19 Nov 2015 13:10
 Operator : UM/IZ
 Sample : G4323-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Quant Time: Nov 20 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 03:16:26 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM



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

26.566min (-0.000) 0.10ng/ul m

response 22716

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	25.73
138.00	28.10	32.44
0.00	0.00	0.00

> U.M.
 11/21/15

ata Path : Z:\HPCHEM1\BNA M\DATA\BM111915\
 ata File : BM003189.D
 ca On : 19 Nov 2015 13:10
 perator : UM/TZ
 ample : G4323-01
 isc :
 LS Vial : 3 Sample Multiplier: 1

uant Time: Nov 26 17:44:25 2015
 uant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 uant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Nov 20 03:16:26 2015
 esponse via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 A4HT2

Manual Integrations
 APPROVED

Mmdadoda
 11/20/2015 7:00:04 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	13809	0.40	ng/ul	0.00
4) Naphthalene-d8	10.53	136	53475	0.40	ng/ul	0.00
8) Acenaphthene-d10	14.38	164	29229	0.40	ng/ul	0.00
12) Phenanthrene-d10	17.12	188	64334m	0.40	ng/ul	0.00
18) Chrysene-d12	21.33	240	61864	0.40	ng/ul	0.00
22) Perylene-d12	23.60	264	61518m	0.40	ng/ul	0.01
System Monitoring Compounds						
2) 1,4-Dioxane-d8	3.20	96	62384	4.23	ng/uL	0.00
6) 2-Methylnaphthalene-d10	12.12	152	17161	0.24	ng/ul	0.00
16) Fluoranthene-d10	19.17	212	37788	0.24	ng/ul	0.00
Target Compounds						
5) Naphthalene	10.58	128	8632	0.06	ng/ul#	95
7) 2-Methylnaphthalene	12.19	142	892	0.01	ng/ul#	100
9) Acenaphthylene	14.11	152	4670	0.04	ng/ul#	92
13) Pentachlorophenol	16.78	266	3611	0.24	ng/ul#	15
14) Phenanthrene	17.17	178	24195	0.13	ng/ul	96
17) Fluoranthene	19.20	202	53389m	0.26	ng/ul	
19) Pyrene	19.57	202	57601	0.27	ng/ul#	93
20) Benzo(a)anthracene	21.31	228	27920	0.16	ng/ul#	90
21) Chrysene	21.36	228	31402m	0.16	ng/ul	
23) Benzo(b)fluoranthene	22.91	252	44034m	0.19	ng/ul	
25) Benzo(a)pyrene	23.49	252	29540m	0.14	ng/ul	
26) Indeno(1,2,3-cd)pyrene	25.87	276	23115m	0.09	ng/ul	
28) Benzo(g,h,i)perylene	26.57	276	22716m	0.10	ng/ul	

O.M
 11/20/15

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