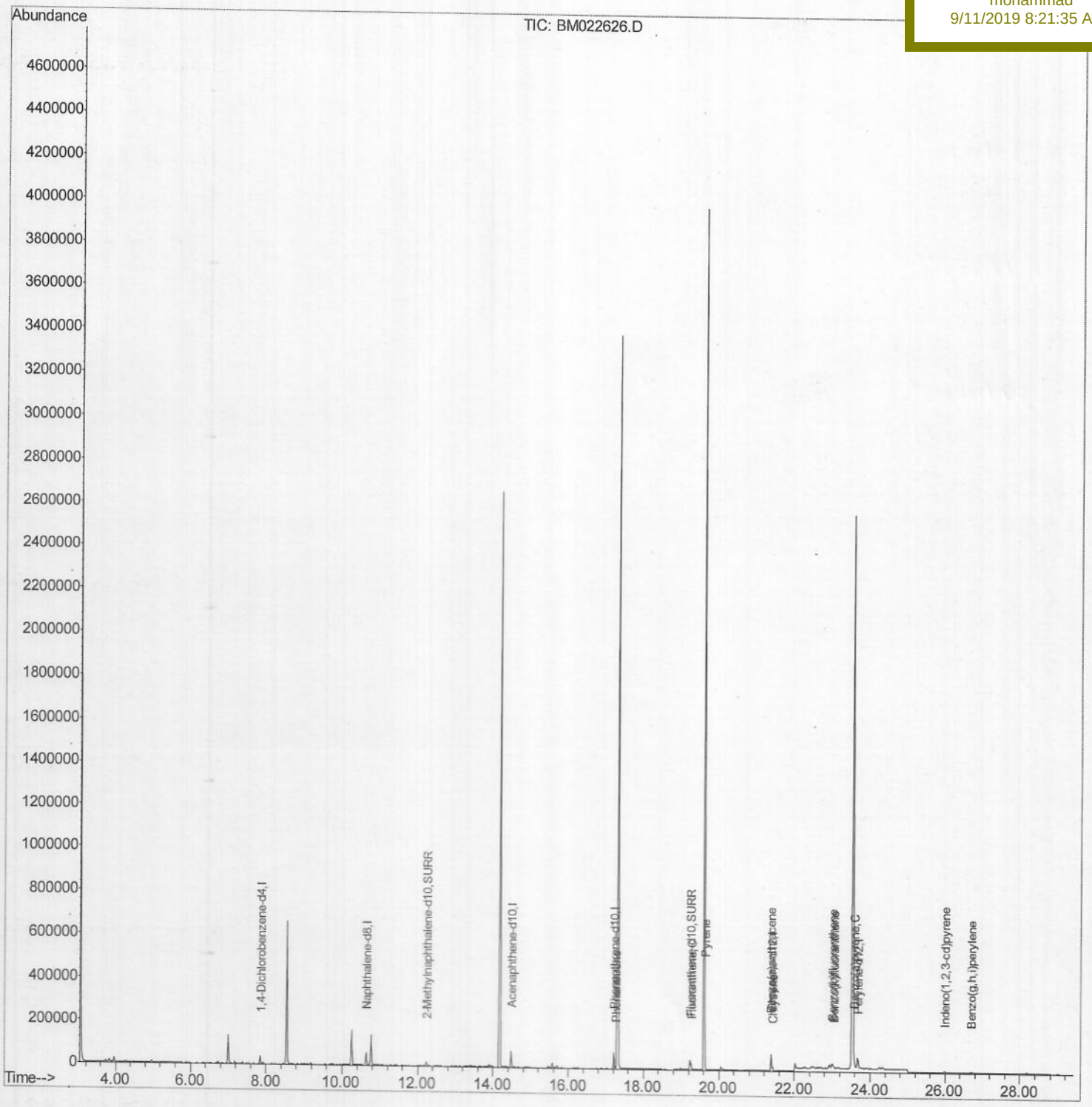
Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:36:05 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



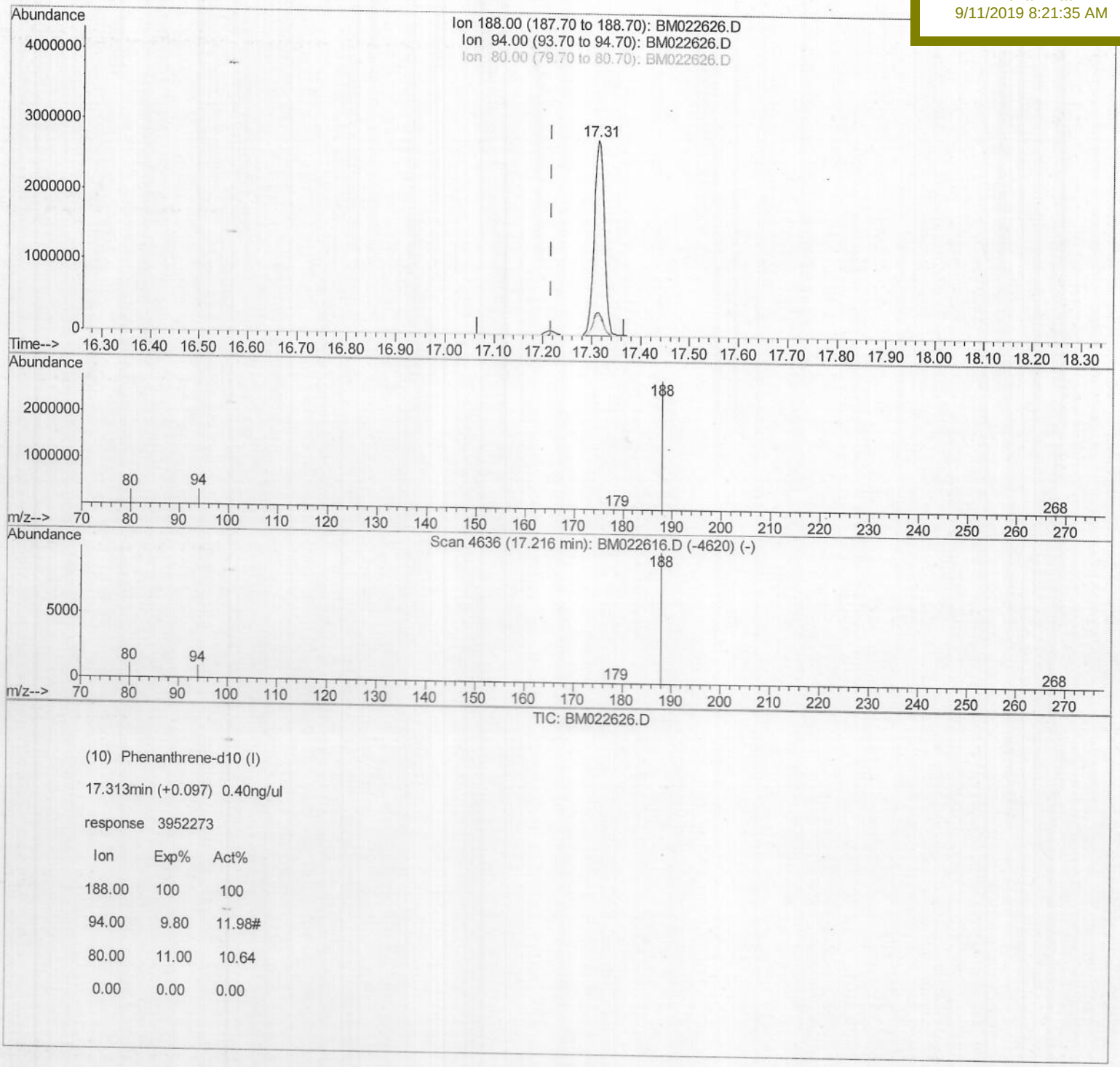
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:01 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(10) Phenanthrene-d10 (I)

17.313min (+0.097) 0.40ng/ul

response 3952273

Ion	Exp%	Act%
188.00	100	100
94.00	9.80	11.98#
80.00	11.00	10.64
0.00	0.00	0.00

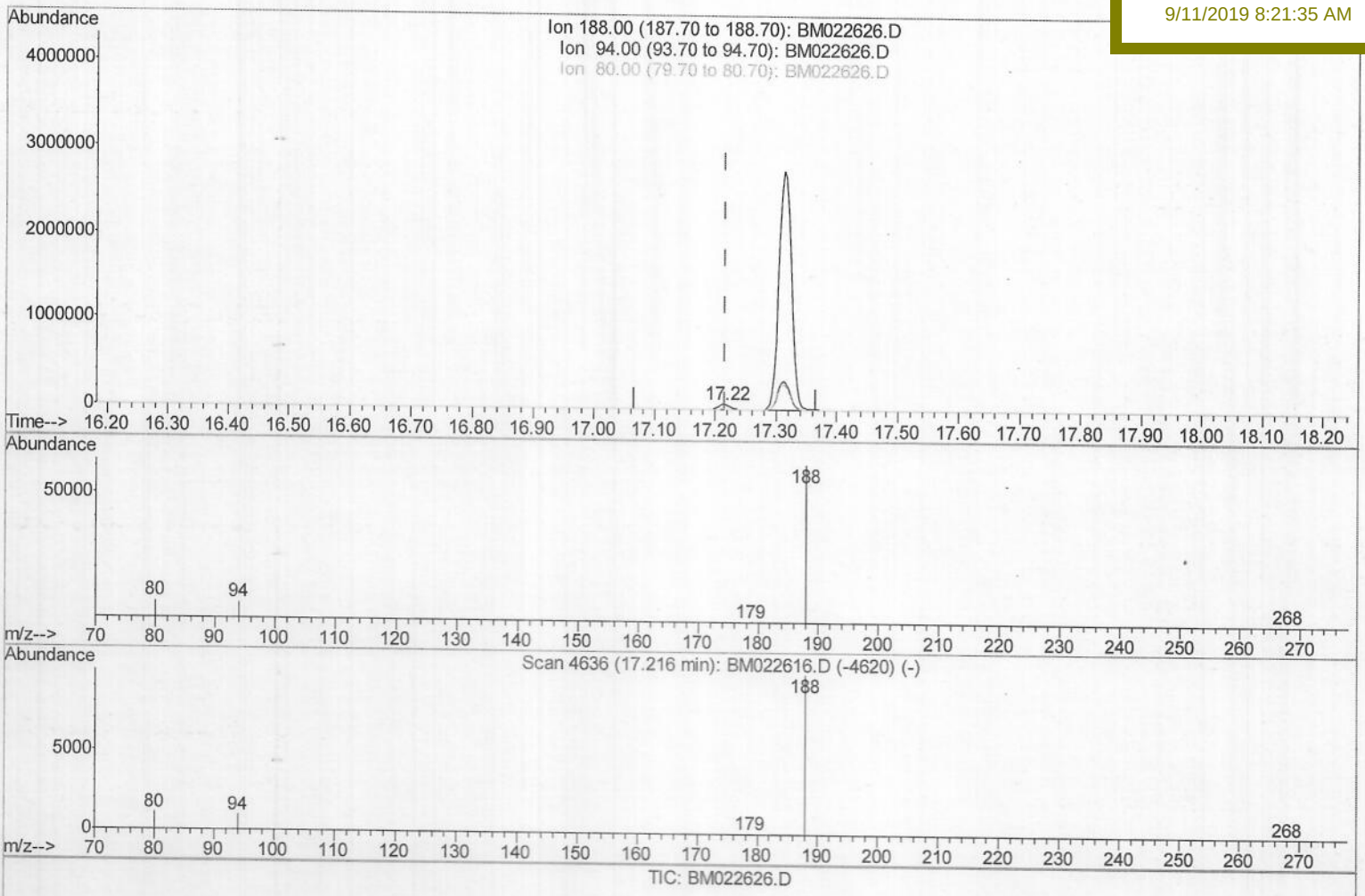
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:01 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



(10) Phenanthrene-d10 (I)

17.216min (-0.000) 0.40ng/ul m) JU 09/11/19

response 86742

Ion	Exp%	Act%
188.00	100	100
94.00	9.80	9.84
80.00	11.00	10.66
0.00	0.00	0.00

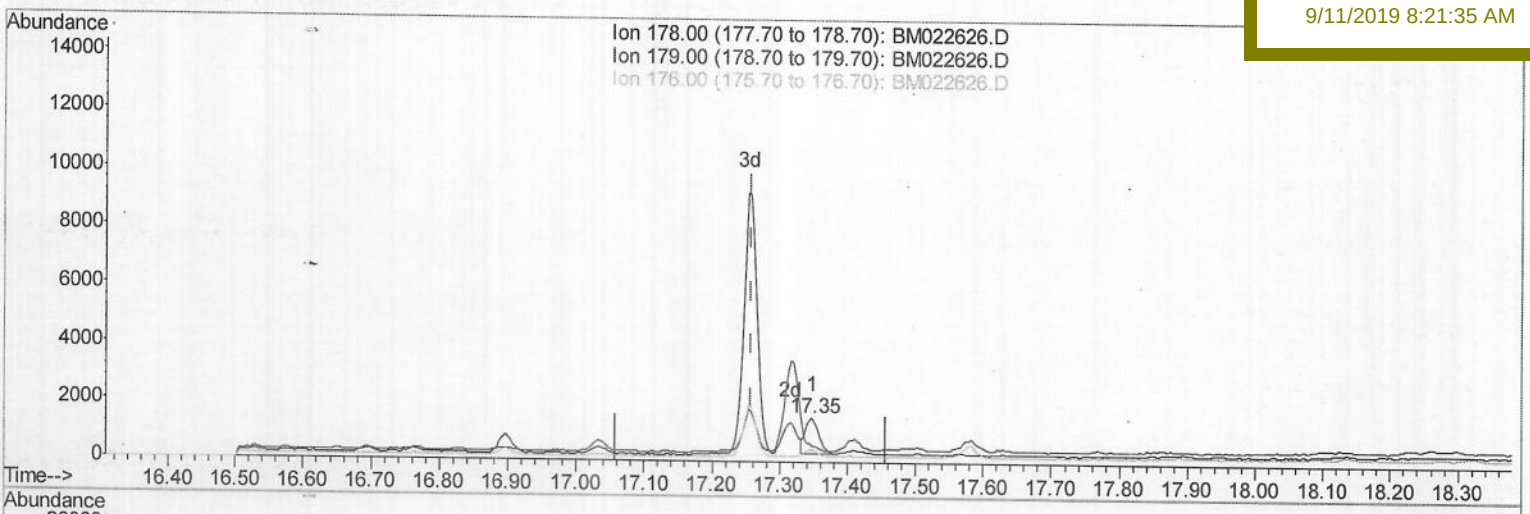
Quantitation Report (Qedit)

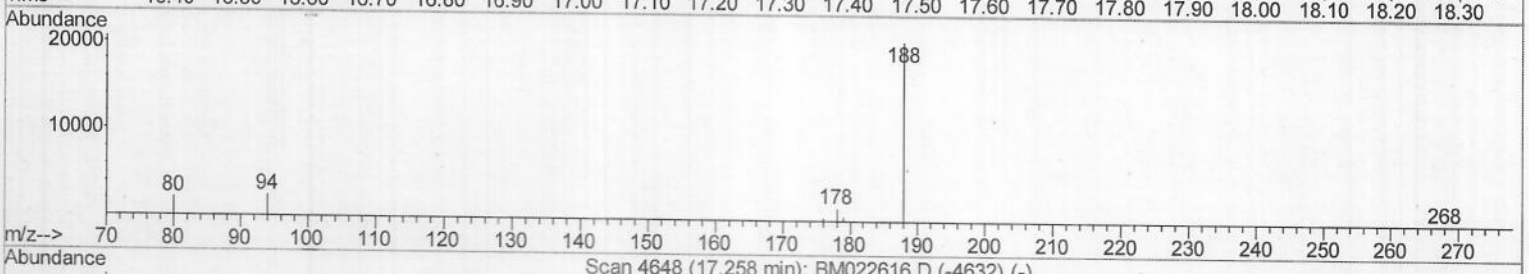
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

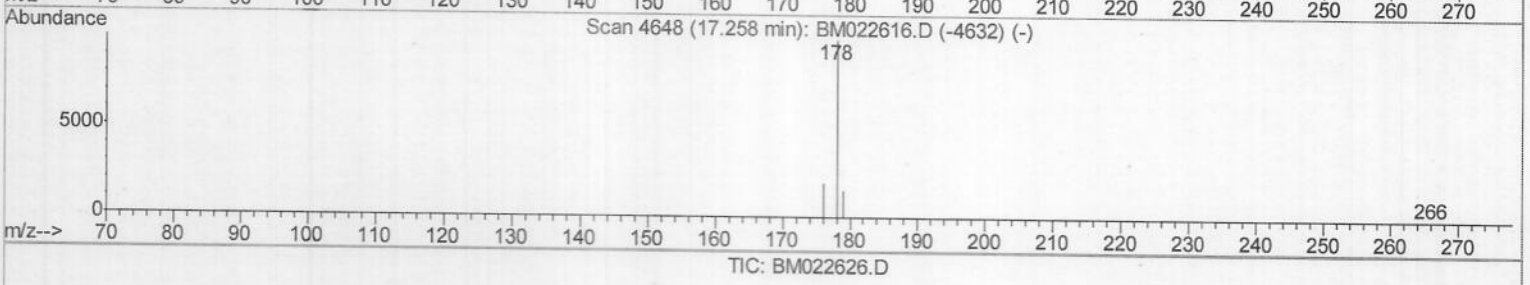
Quant Time: Sep 10 19:32:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM







TIC: BM022626.D

(12) Phenanthrene

17.348min (+0.090) 0.01ng/ul

response 1686

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	36.67#
176.00	19.10	26.86#
0.00	0.00	0.00

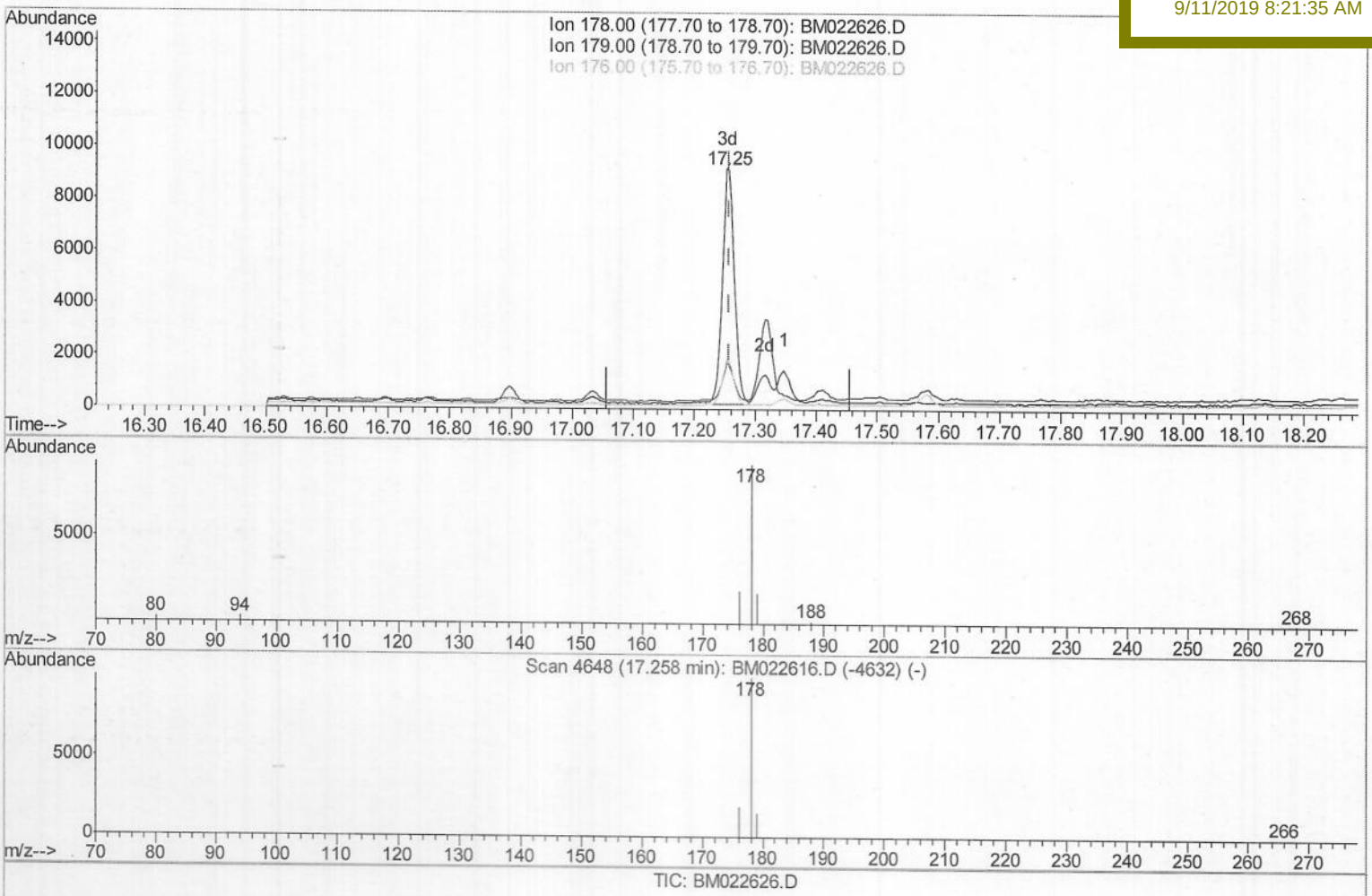
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(12) Phenanthrene

17.254min (-0.004) 0.05ng/ul m SJU 09/11/19

response 12636

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	19.75#
176.00	19.10	20.81
0.00	0.00	0.00

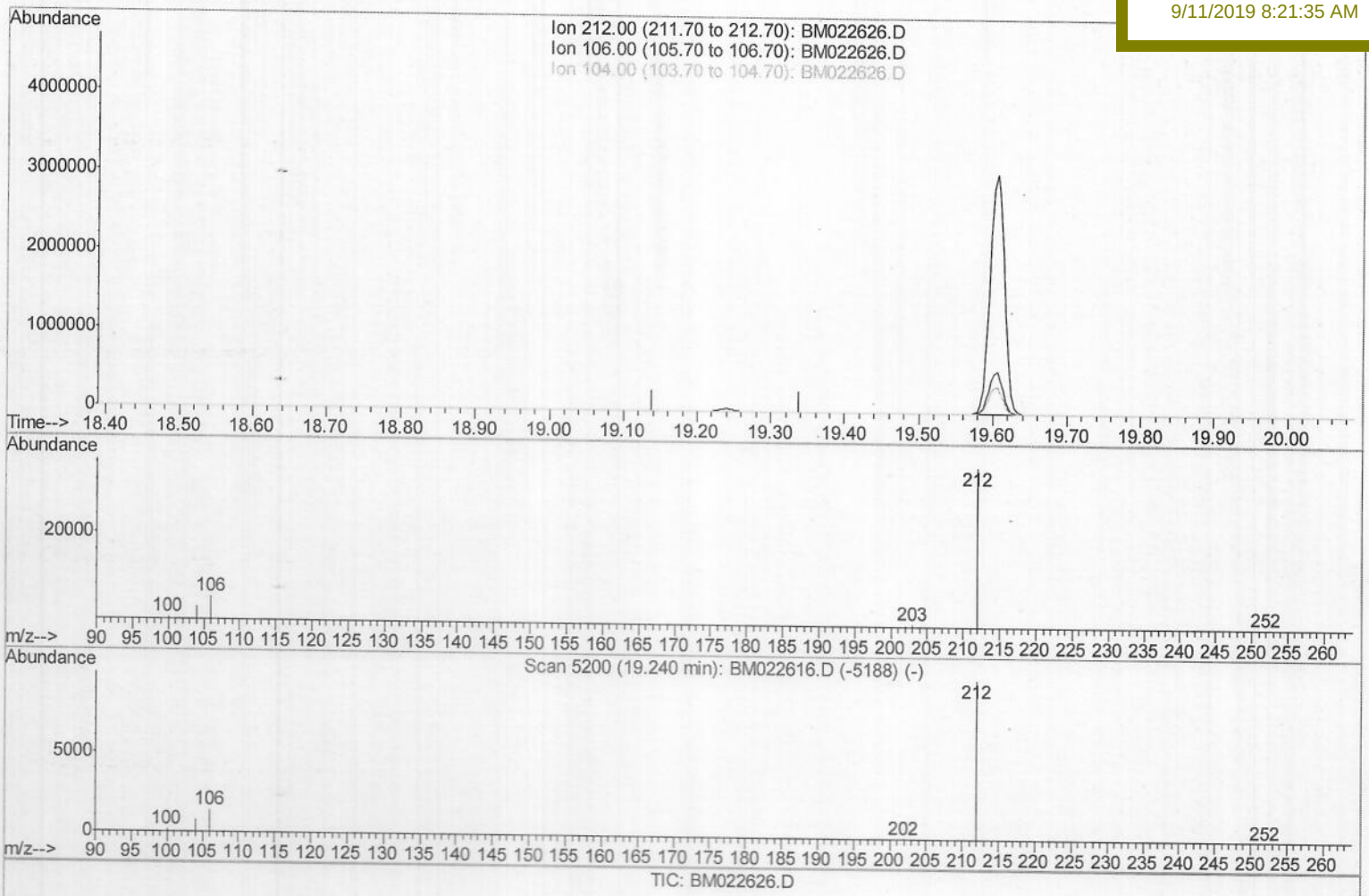
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



(14) Fluoranthene-d10 (SURR)

19.240min (-19.240) 0.00ng/ul

response 0

Ion	Exp%	Act%
212.00	100	0.00
106.00	14.00	0.00#
104.00	8.00	0.00#
0.00	0.00	0.00

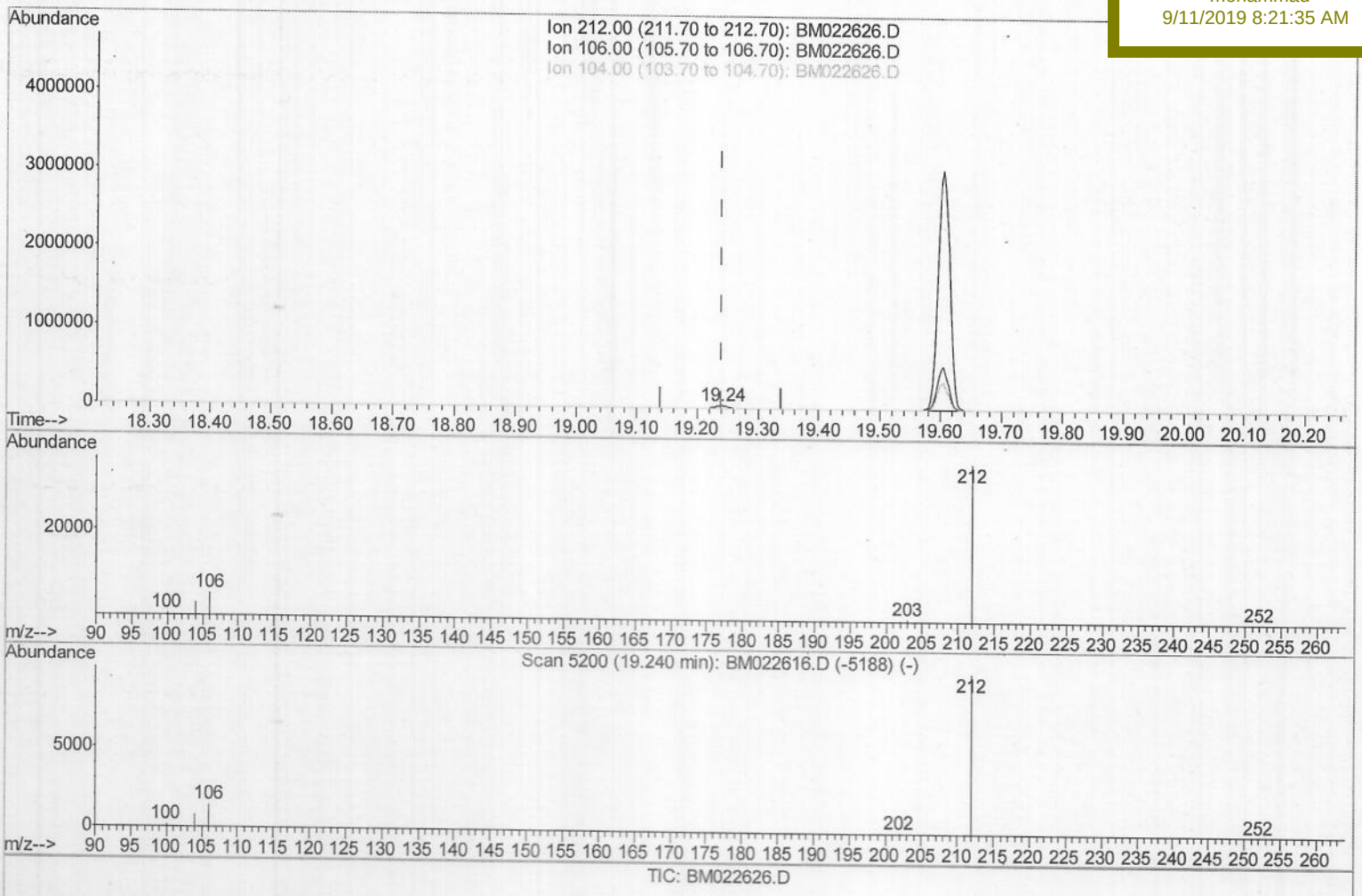
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



(14) Fluoranthene-d10 (SURR)

19.240min (-0.000) 0.21ng/ul m JJU 09/11/19

response 49393

Ion	Exp%	Act%
212.00	100	100
106.00	14.00	0.00#
104.00	8.00	0.00#
0.00	0.00	0.00

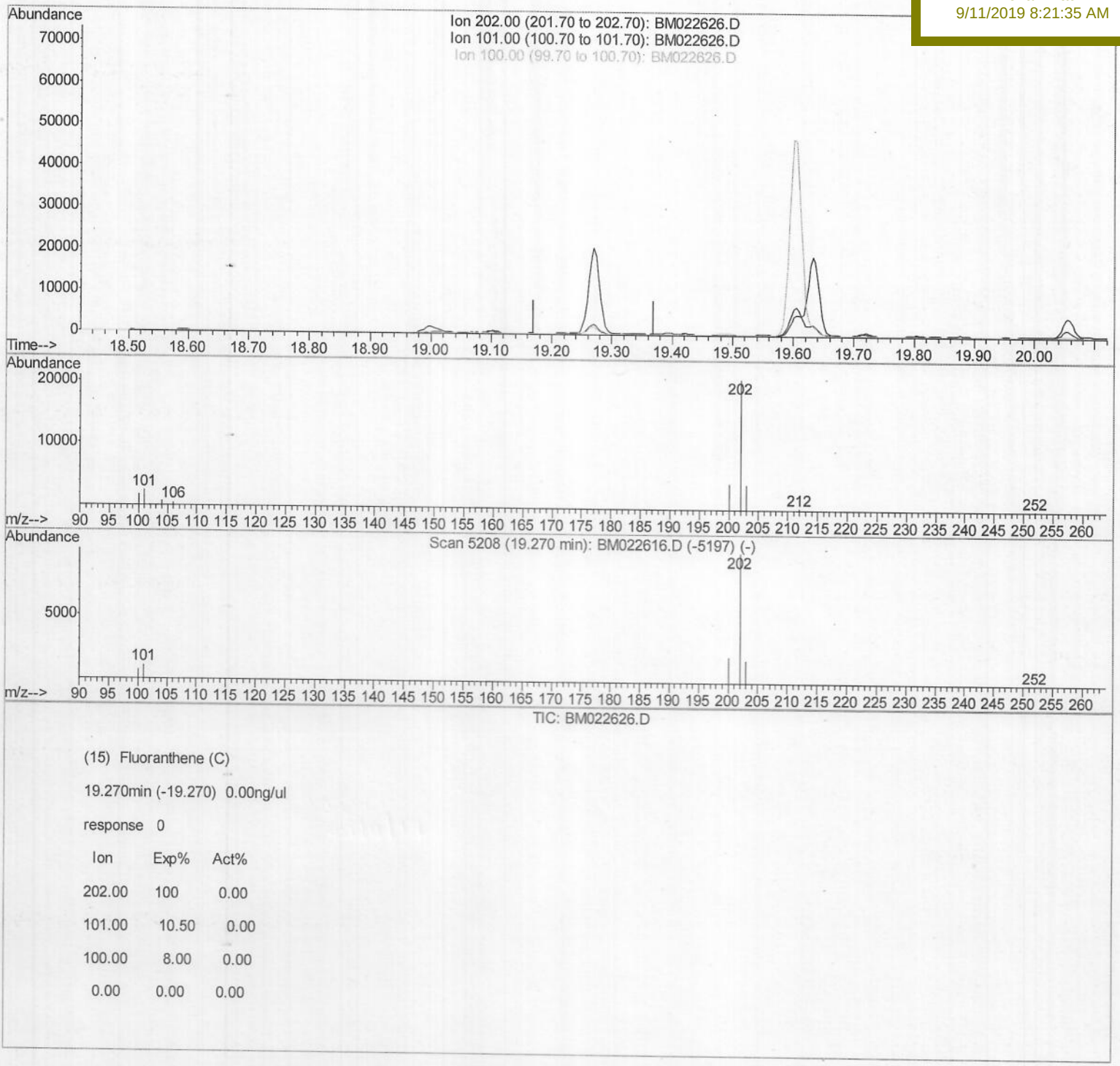
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



(15) Fluoranthene (C)

19.270min (-19.270) 0.00ng/ul

response 0

Ion	Exp%	Act%
202.00	100	0.00
101.00	10.50	0.00
100.00	8.00	0.00
0.00	0.00	0.00

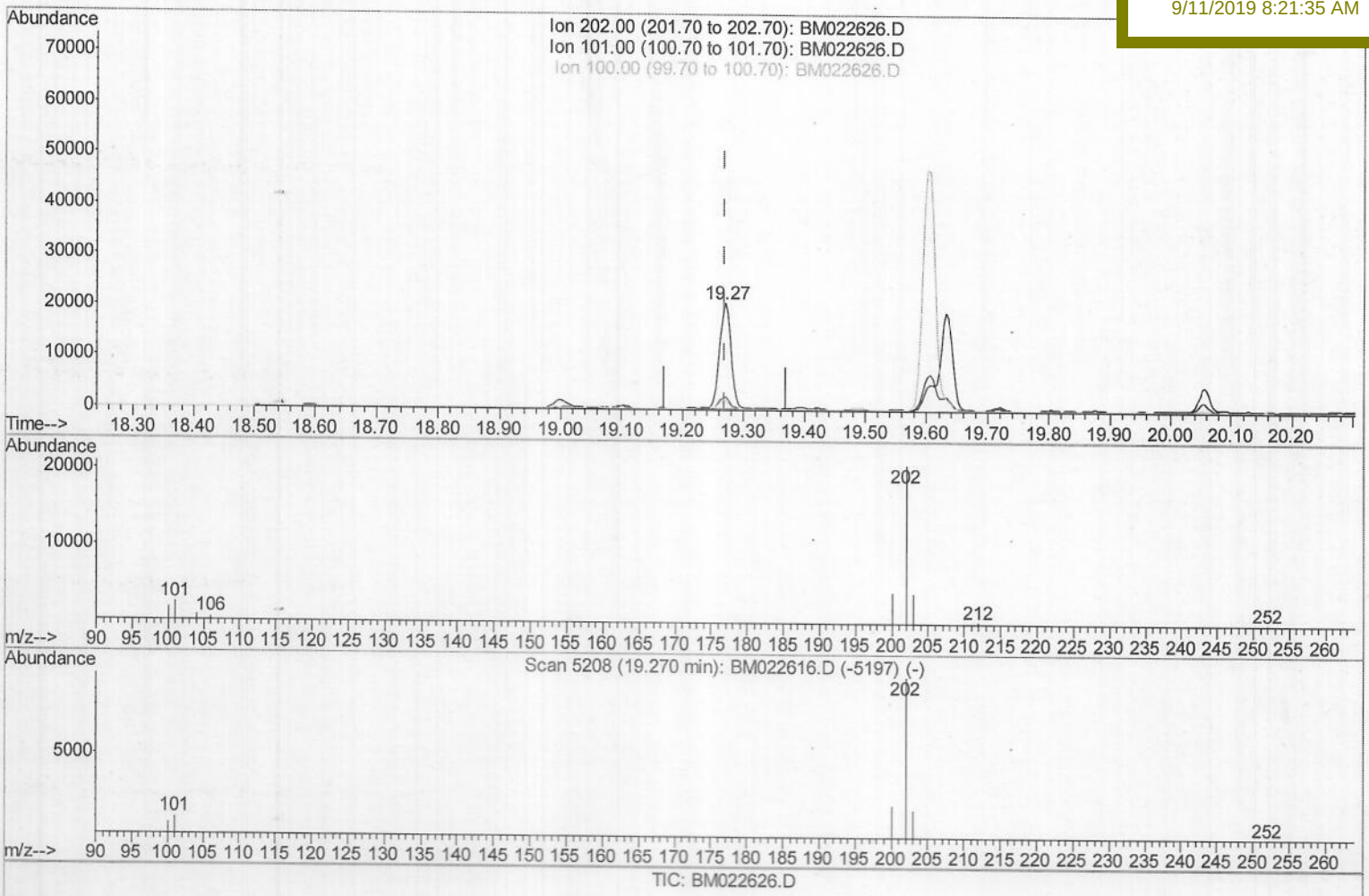
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(15) Fluoranthene (C)

19.270min (-0.000) 0.09ng/ul m) JU 09/11/19

response 26468

Ion	Exp%	Act%
202.00	100	100
101.00	10.50	11.96
100.00	8.00	9.03
0.00	0.00	0.00

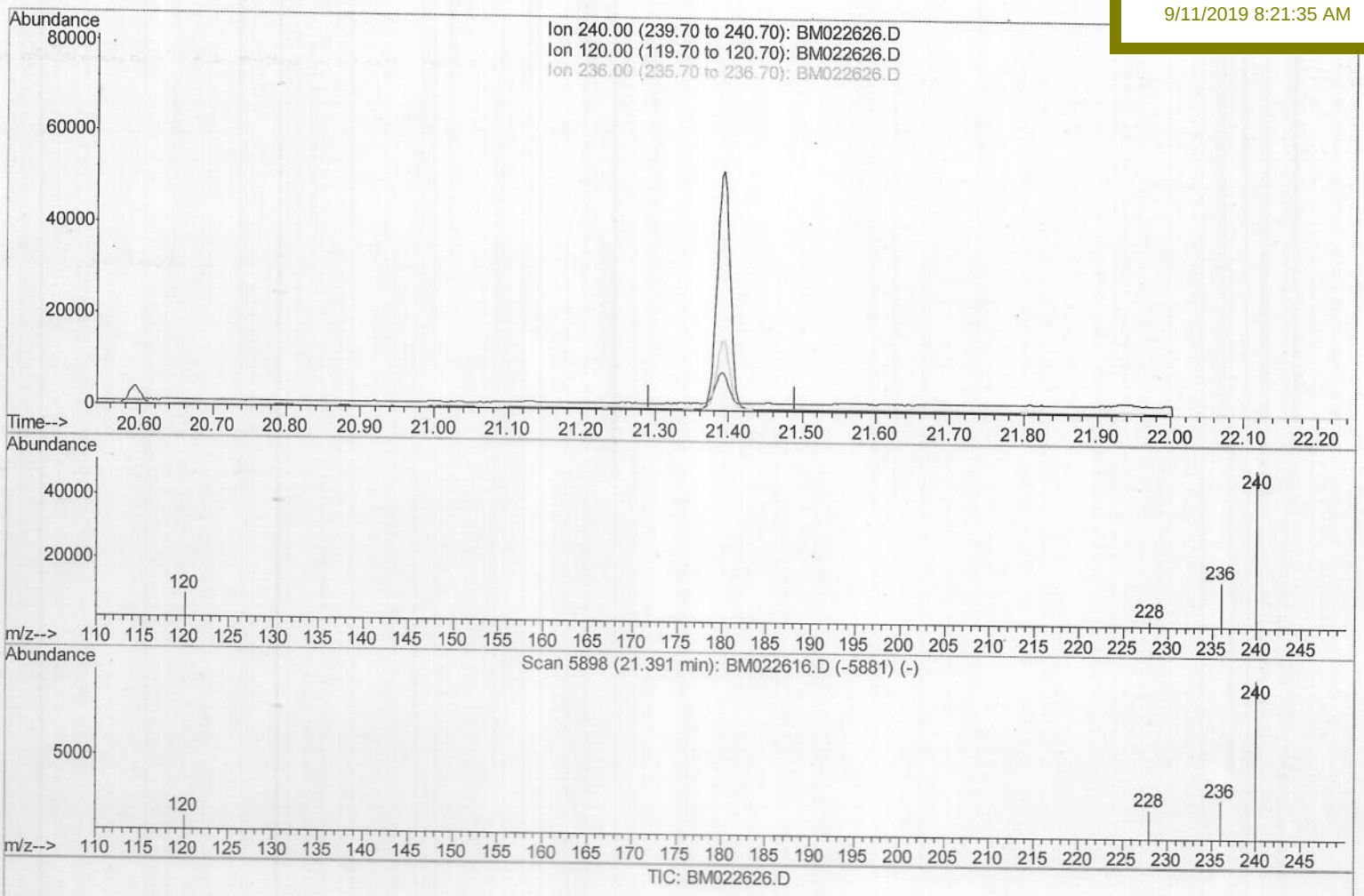
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(16) Chrysene-d12 (I)

21.391min (-21.391) 0.00ng/ul

response 0

Ion	Exp%	Act%
240.00	100	0.00
120.00	14.60	0.00#
236.00	28.80	0.00#
0.00	0.00	0.00

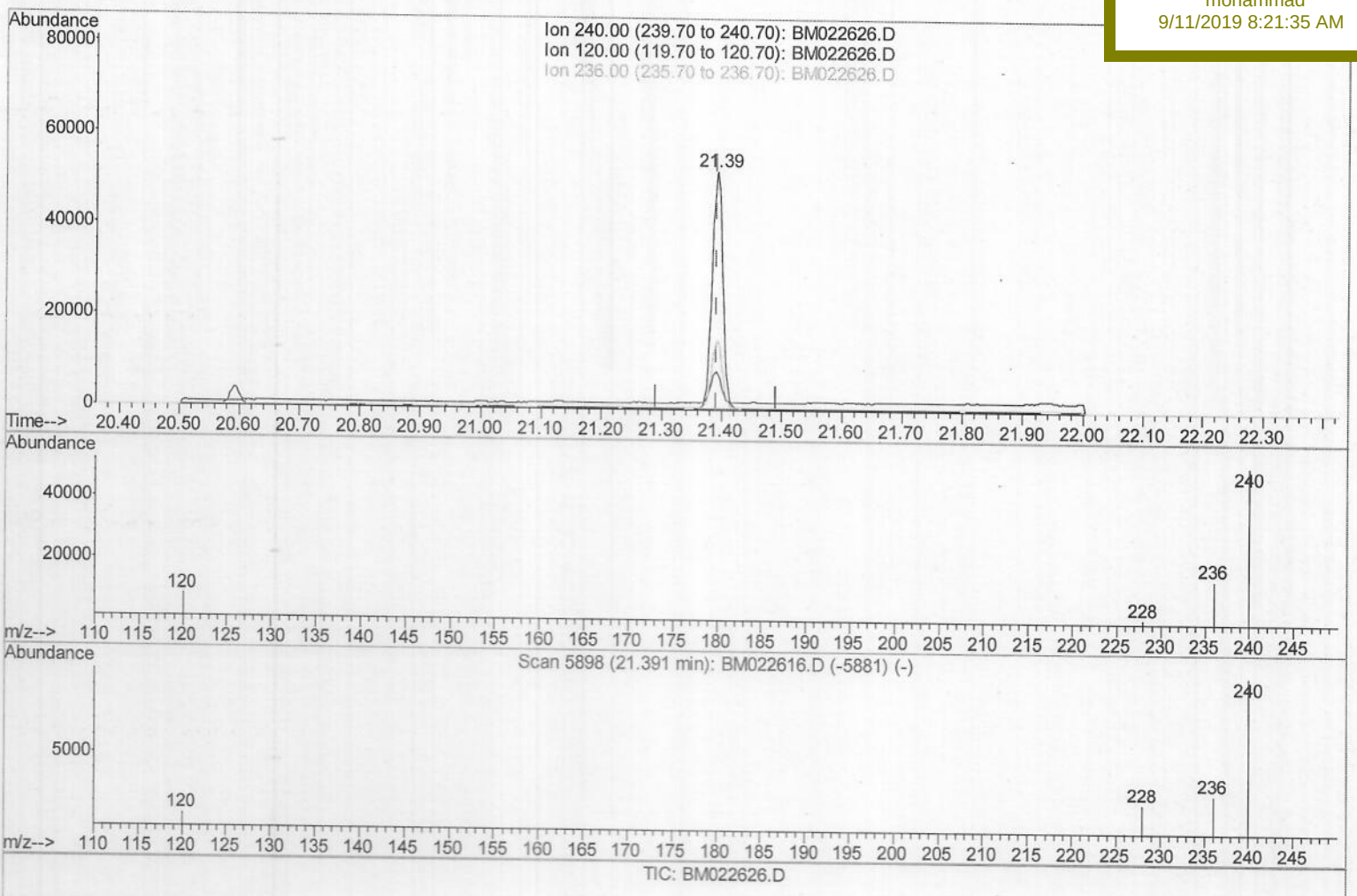
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:32:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(16) Chrysene-d12 (I)

21.393min (+0.002) 0.40ng/ul m

response 64640

JV 09/11/19

Ion	Exp%	Act%
240.00	100	100
120.00	14.60	15.66
236.00	28.80	28.95
0.00	0.00	0.00

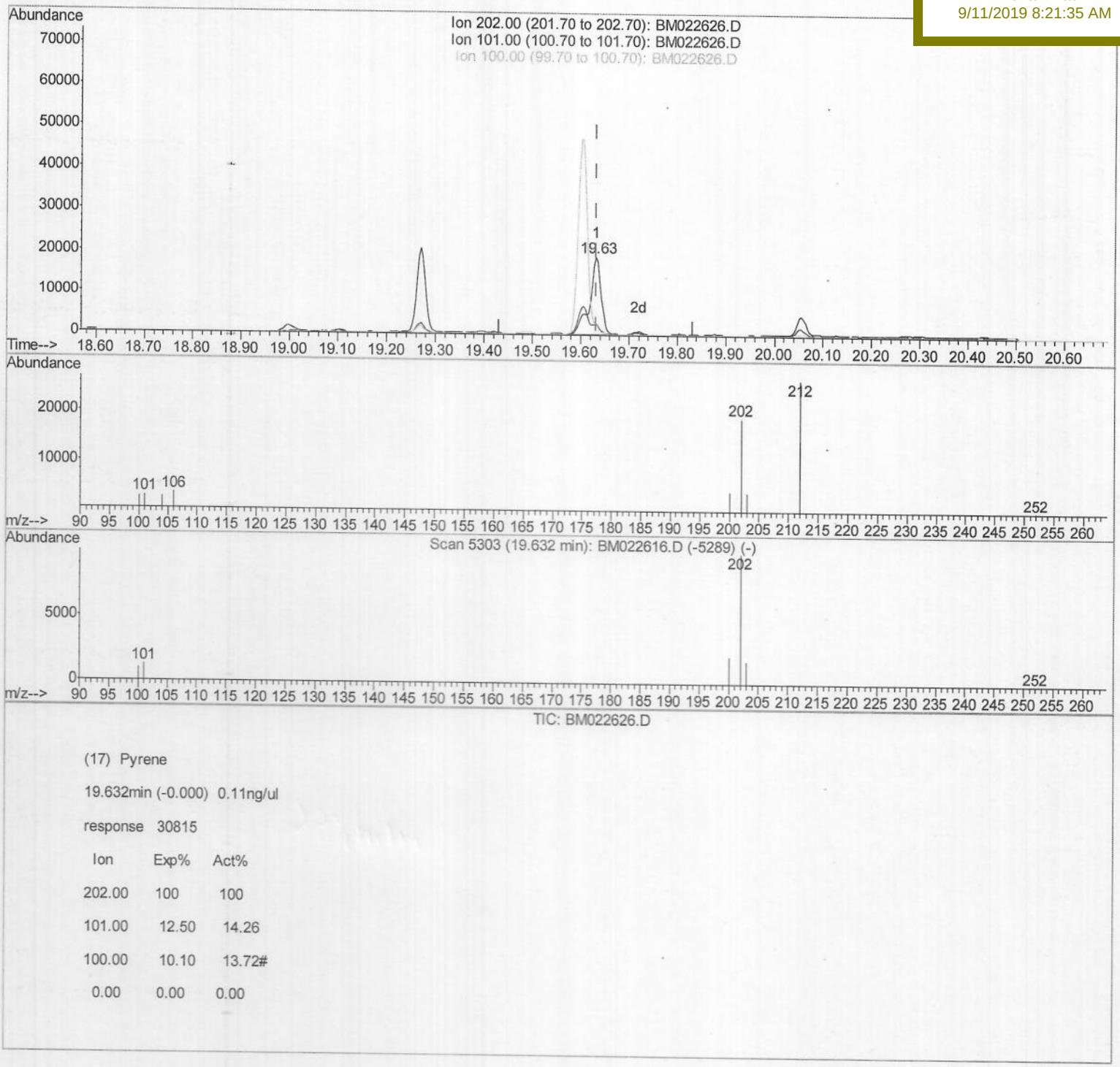
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:34:22 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(17) Pyrene

19.632min (-0.000) 0.11ng/ul

response 30815

Ion	Exp%	Act%
202.00	100	100
101.00	12.50	14.26
100.00	10.10	13.72#
0.00	0.00	0.00

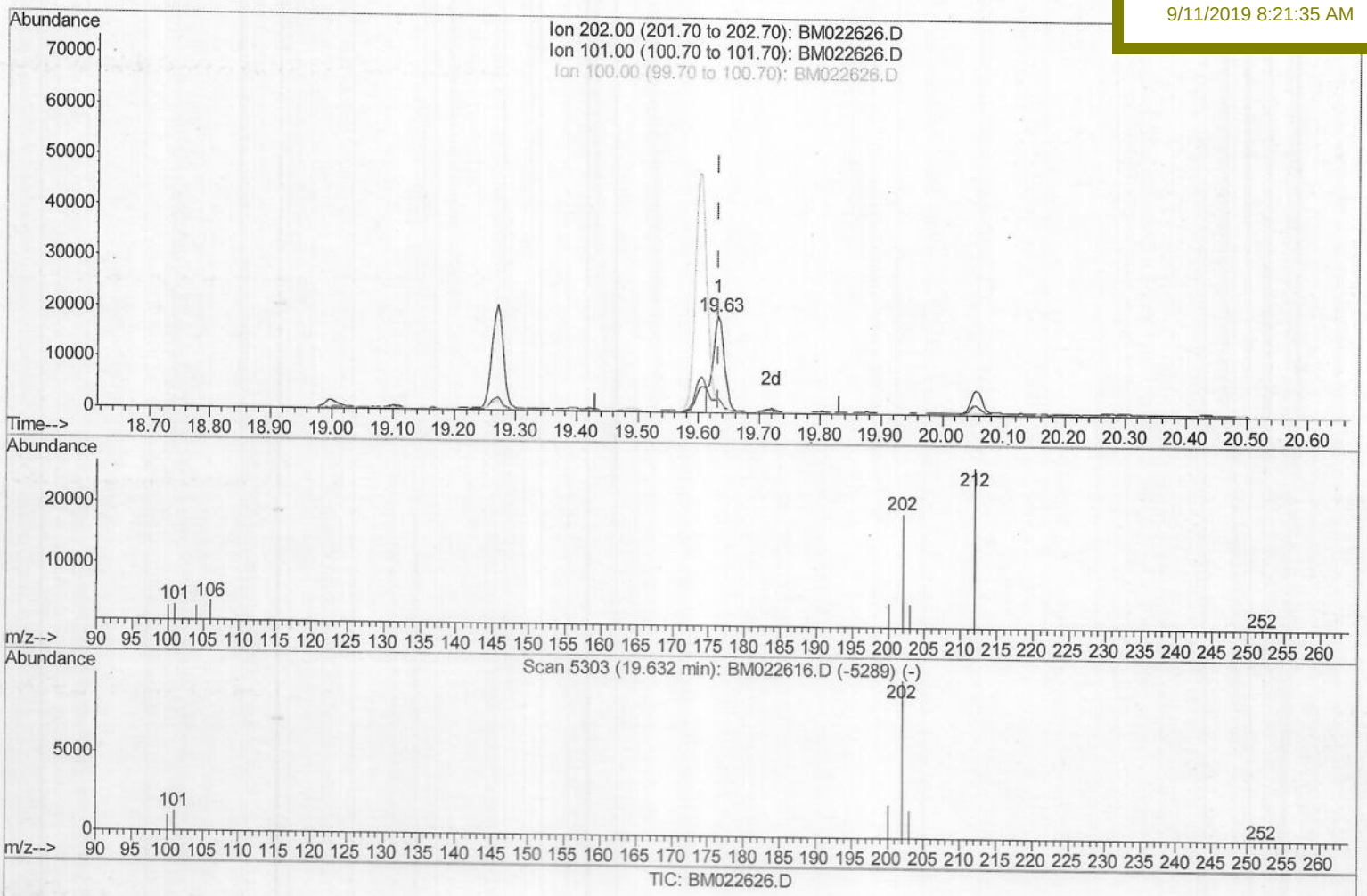
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:34:22 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(17) Pyrene

19.632min (-0.000) 0.09ng/ul m

response 25662

JU 09/11/19

Ion	Exp%	Act%
202.00	100	100
101.00	12.50	14.26
100.00	10.10	13.72#
0.00	0.00	0.00

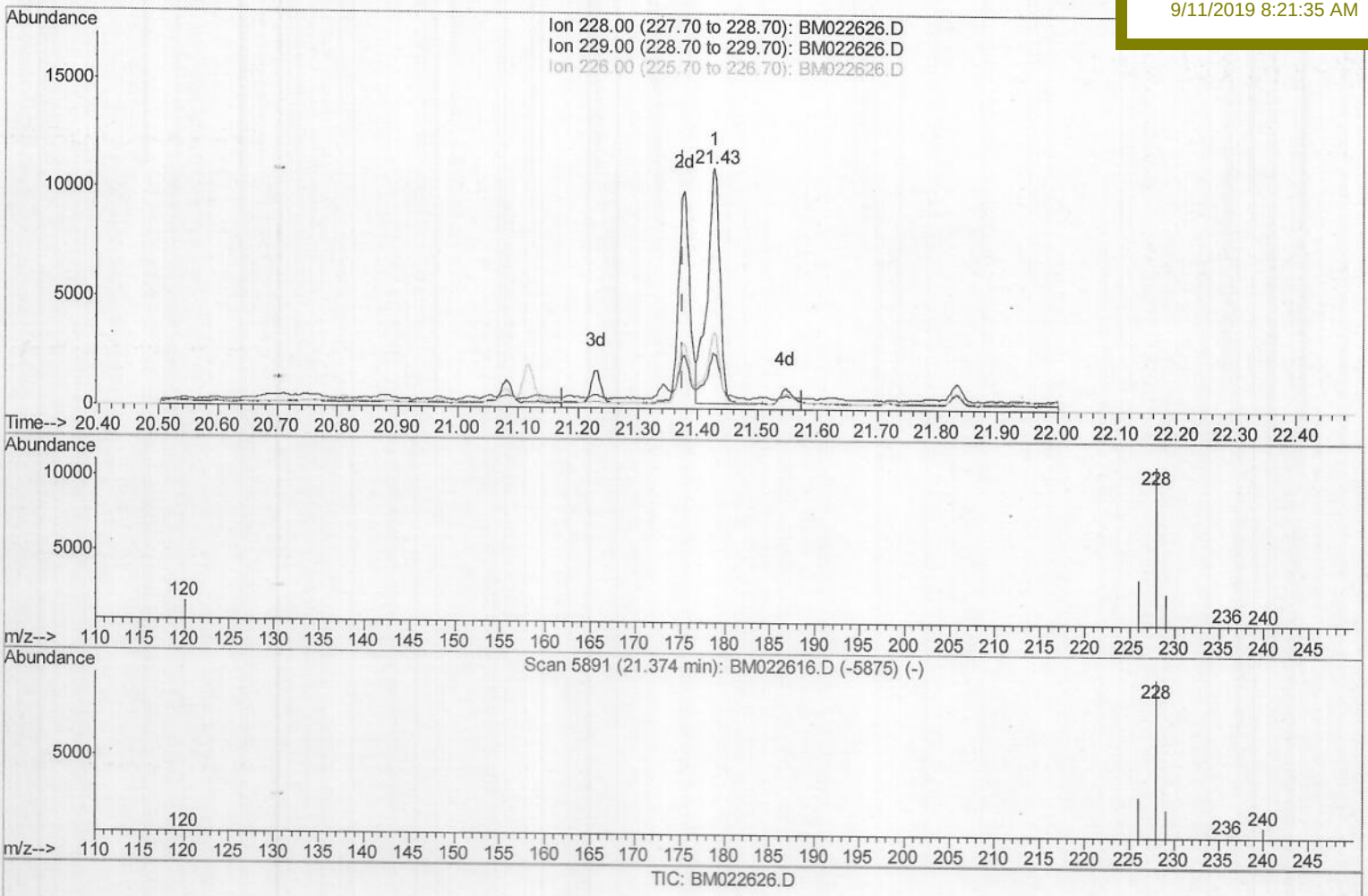
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:34:22 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



(18) Benzo(a)anthracene

21.427min (+0.053) 0.07ng/ul

response 16135

Ion	Exp%	Act%
228.00	100	100
229.00	19.50	22.83
226.00	27.50	31.65
0.00	0.00	0.00

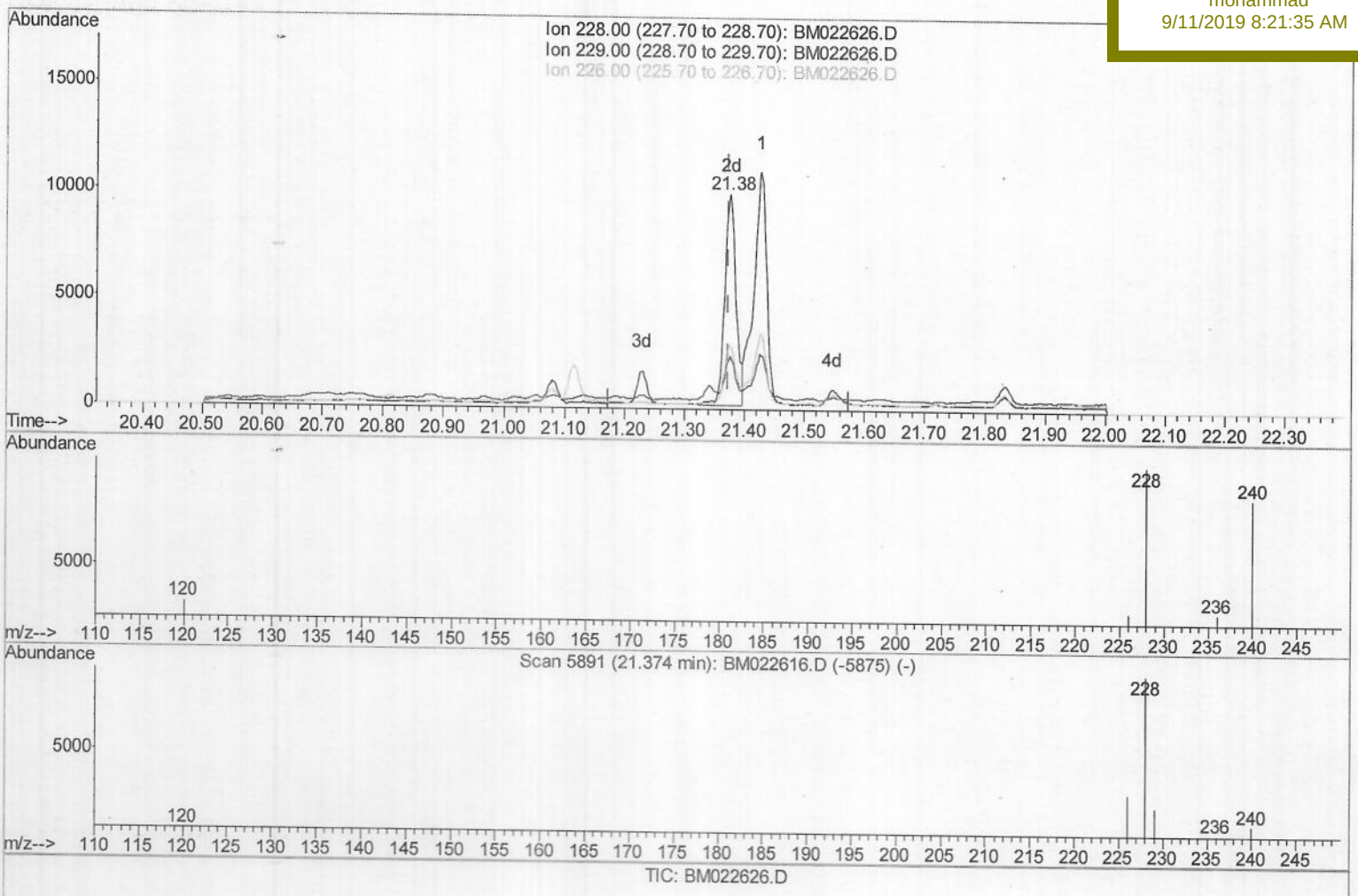
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:34:22 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(18) Benzo(a)anthracene

21.377min (+0.002) 0.05ng/ul m

JU 09/11/19

response 12606

Ion	Exp%	Act%
228.00	100	100
229.00	19.50	24.57#
226.00	27.50	29.63
0.00	0.00	0.00

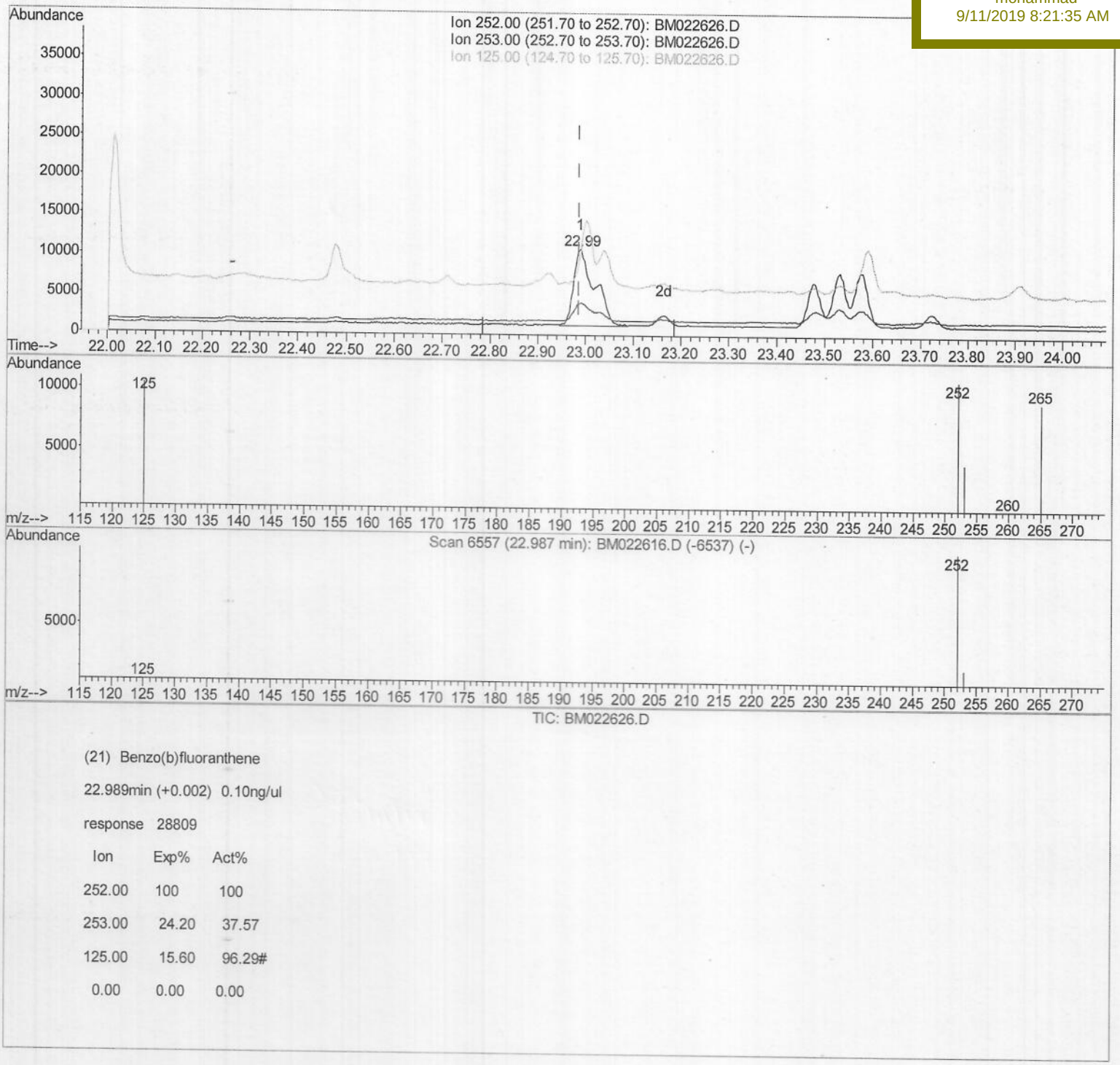
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:34:22 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



(21) Benzo(b)fluoranthene

22.989min (+0.002) 0.10ng/ul

response 28809

Ion	Exp%	Act%
252.00	100	100
253.00	24.20	37.57
125.00	15.60	96.29#
0.00	0.00	0.00

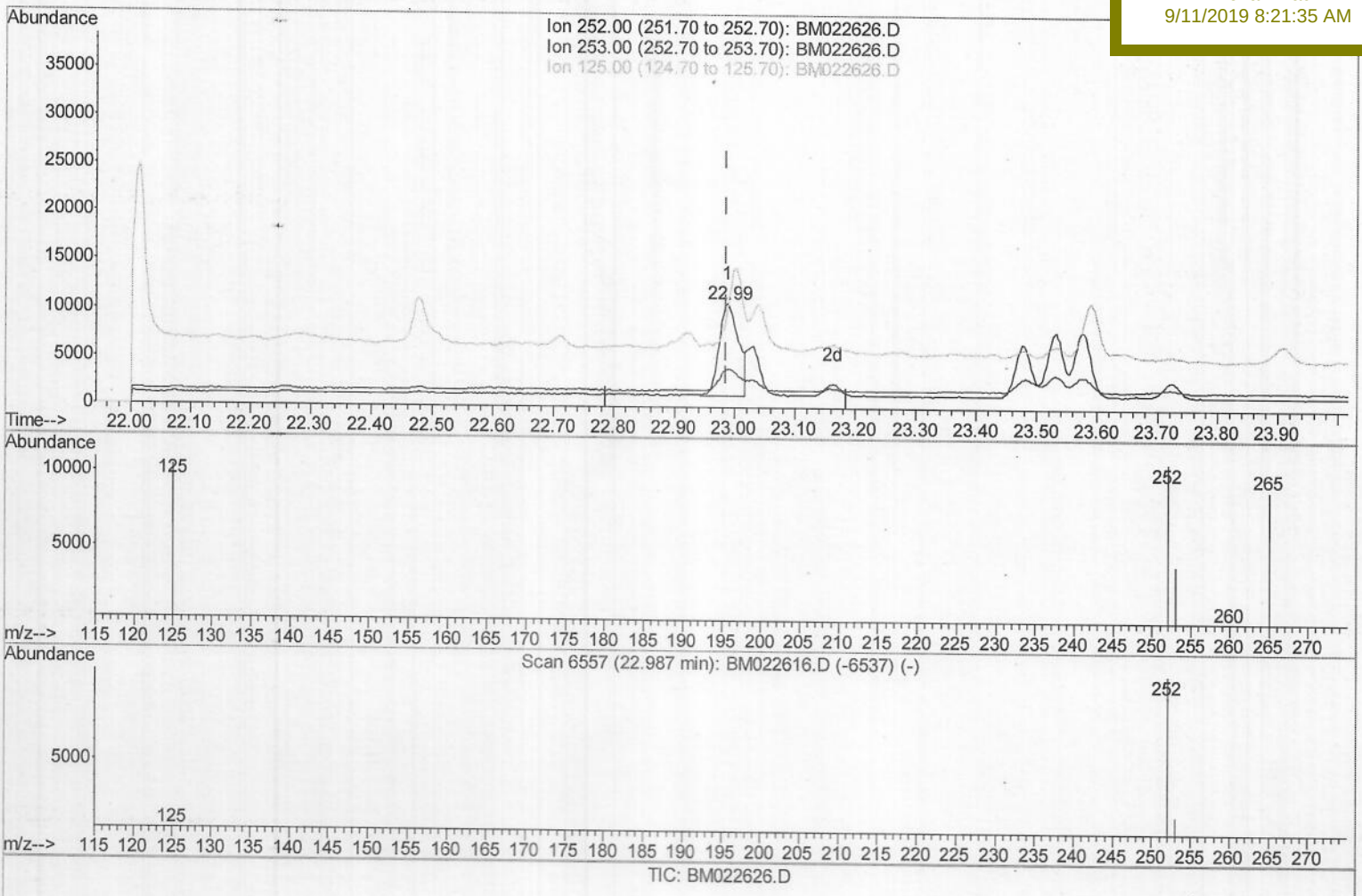
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:34:22 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



TIC: BM022626.D

(21) Benzo(b)fluoranthene

22.989min (+0.002) 0.07ng/ul m) JU 09/11/19

response 20752

Ion	Exp%	Act%
252.00	100	100
253.00	24.20	37.57
125.00	15.60	96.29#
0.00	0.00	0.00

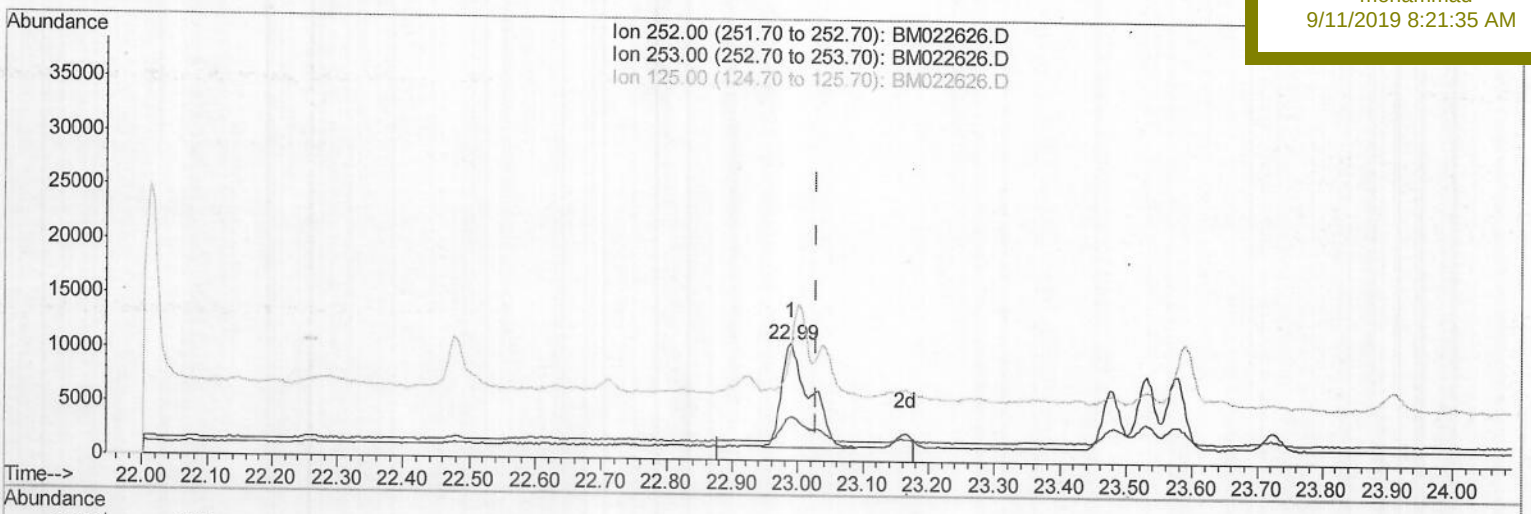
Quantitation Report (Qedit)

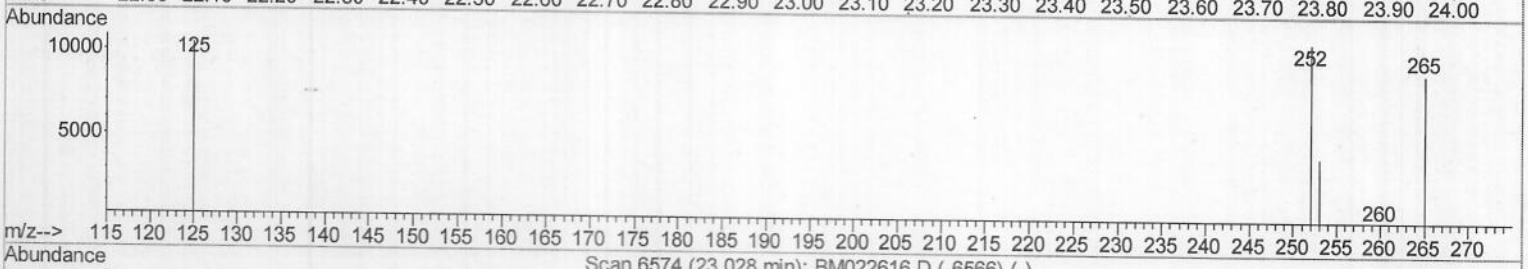
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

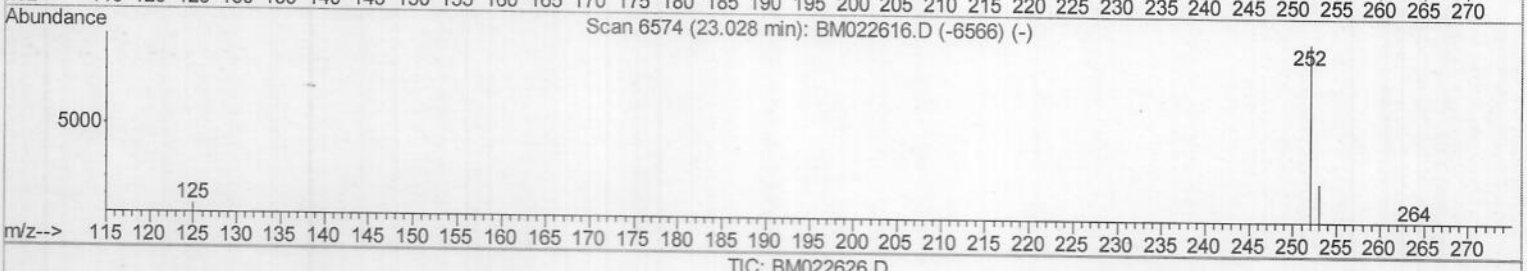
Quant Time: Sep 10 19:34:22 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM







TIC: BM022626.D

(22) Benzo(k)fluoranthene

22.989min (-0.039) 0.10ng/ul

response 28809

Ion	Exp%	Act%
252.00	100	100
253.00	24.40	37.57#
125.00	14.00	96.29#
0.00	0.00	0.00

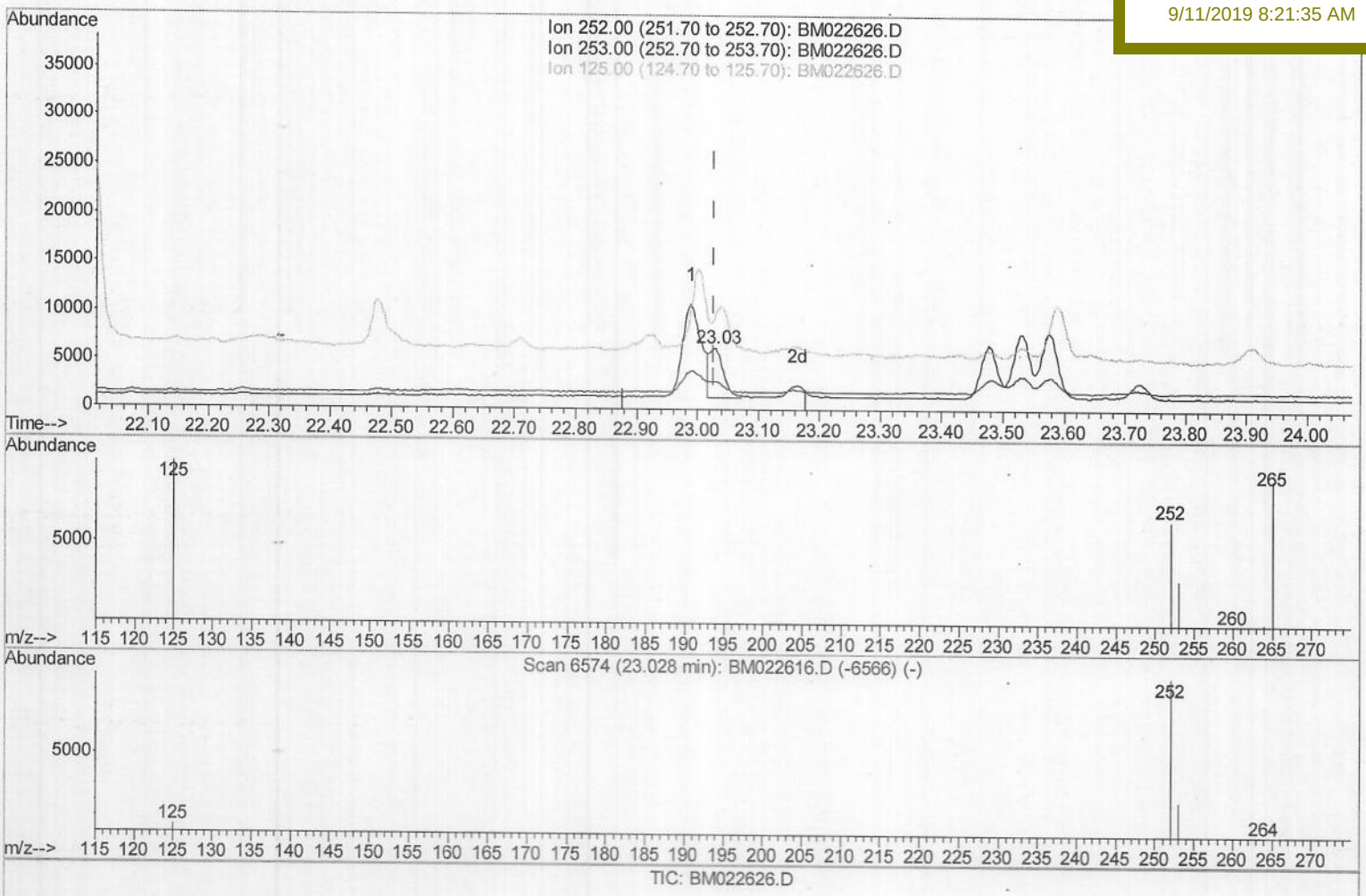
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:34:22 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM



(22) Benzo(k)fluoranthene

23.031min (+0.002) 0.03ng/ul m JU 09/11/19

response 8207

Ion	Exp%	Act%
252.00	100	100
253.00	24.40	45.97#
125.00	14.00	153.33#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091019\
Data File : BM022626.D
Acq On : 10 Sep 2019 18:58
Operator : HP/JU
Sample : K4708-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 10 19:36:05 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

Instrument : BNA_M
ClientSampleId : CB5Q1

Manual Integrations APPROVED
mohammad
9/11/2019 8:21:35 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	18039	0.40	ng/ul	0.00
2) Naphthalene-d8	10.64	136	76183	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.48	164	40236	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.22	188	86742m	0.40	ng/ul	0.00
16) Chrysene-d12	21.39	240	64640m	0.40	ng/ul	0.00
20) Perylene-d12	23.67	264	64358	0.40	ng/ul	0.00
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.23	152	23487	0.19	ng/ul	0.00
14) Fluoranthene-d10	19.24	212	49393m	0.21	ng/ul	0.00
Target Compounds						Qvalue
12) Phenanthrene	17.25	178	12636m	0.046	ng/ul	
15) Fluoranthene	19.27	202	26468m	0.089	ng/ul	
17) Pyrene	19.63	202	25662m	0.088	ng/ul	
18) Benzo(a)anthracene	21.38	228	12606m	0.051	ng/ul	
19) Chrysene	21.43	228	16135	0.062	ng/ul	95
21) Benzo(b)fluoranthene	22.99	252	20752m	0.074	ng/ul	
22) Benzo(k)fluoranthene	23.03	252	8207m	0.029	ng/ul	
23) Benzo(a)pyrene	23.58	252	12588	0.051	ng/ul#	1
24) Indeno(1,2,3-cd)pyrene	25.99	276	10321	0.035	ng/ul#	80
26) Benzo(g,h,i)perylene	26.70	276	10265	0.043	ng/ul#	77

JU 09/11/19

JU 09/11/19

JU 09/11/19

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