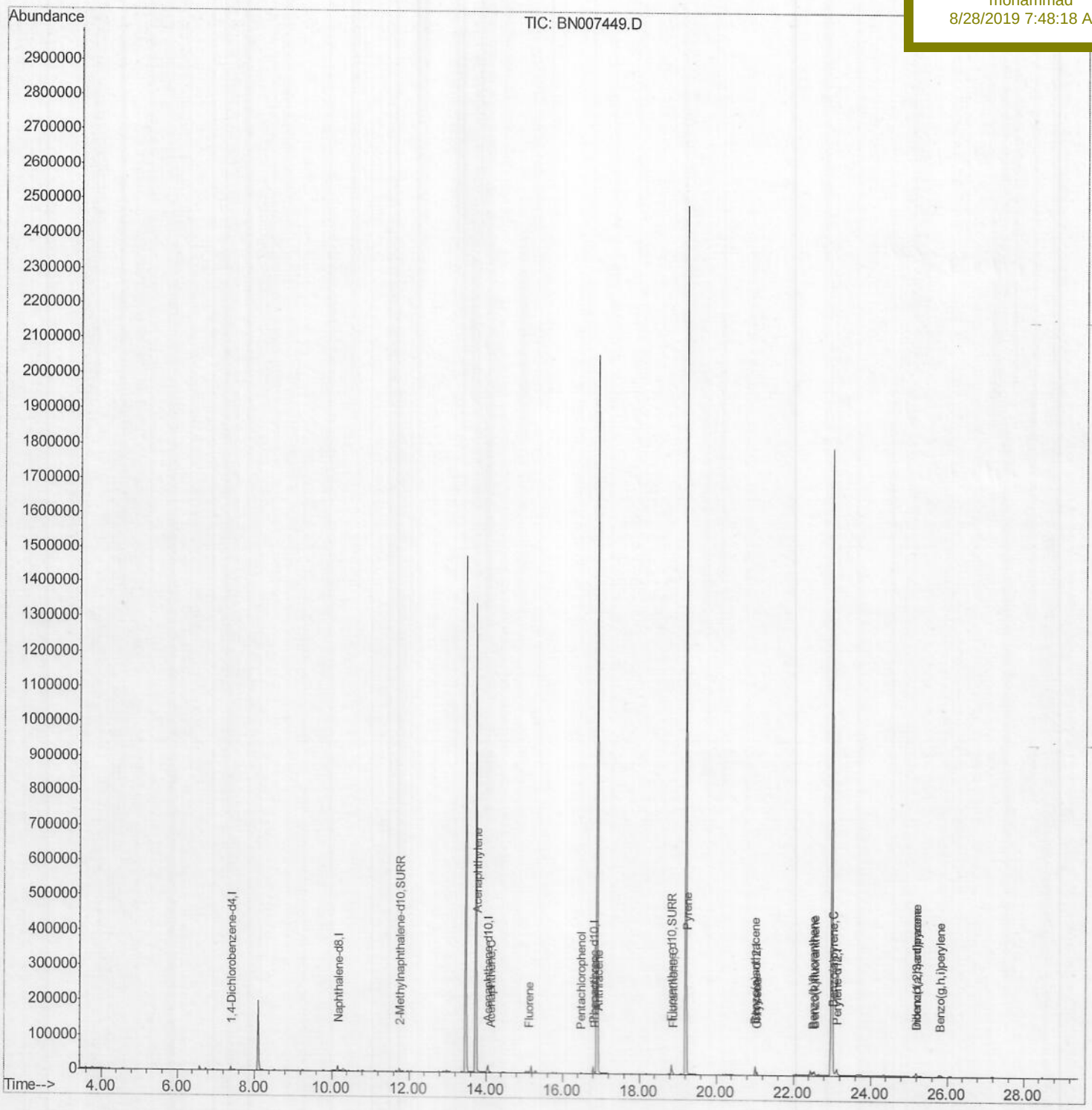
Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:20:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



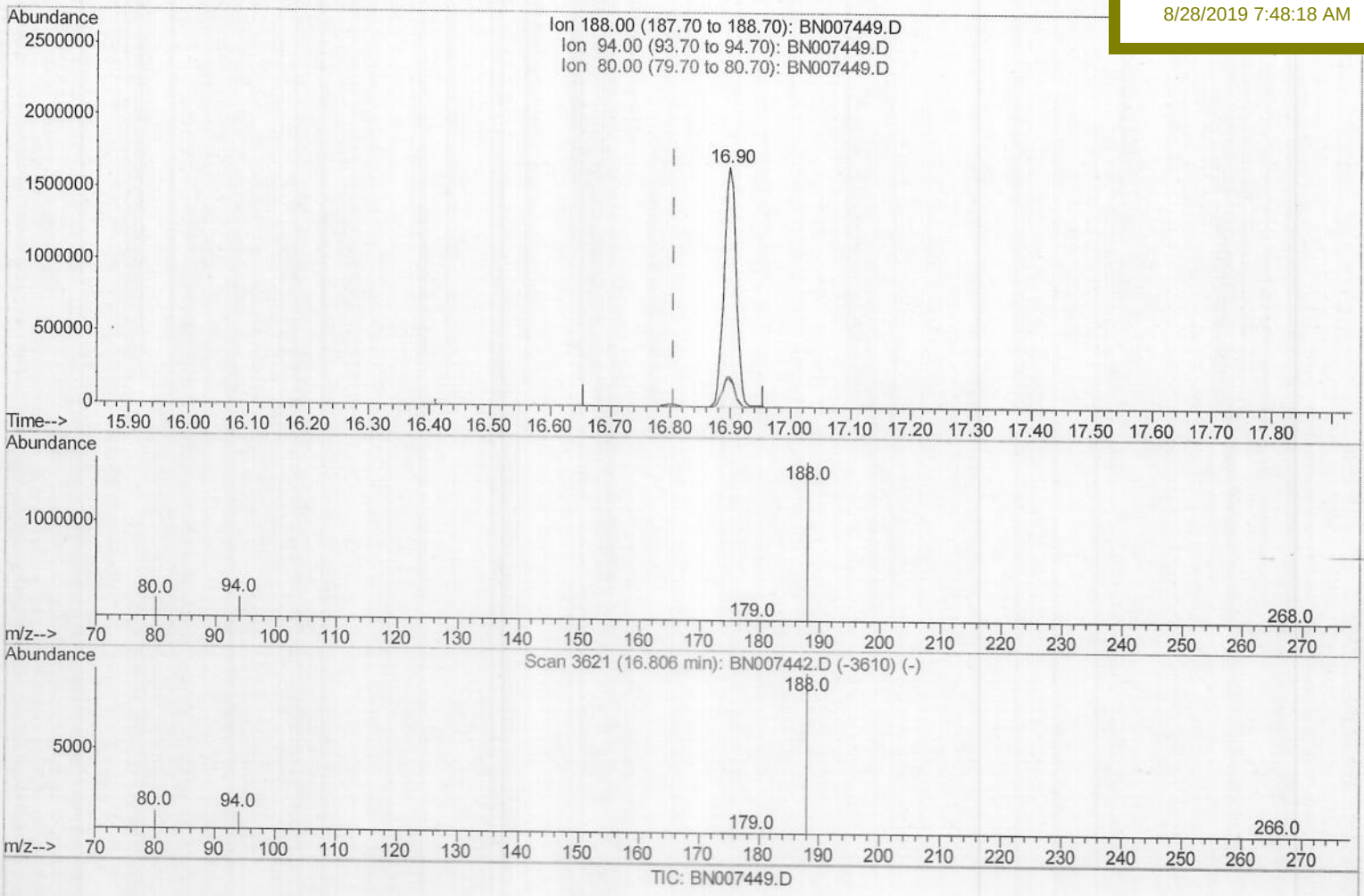
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:11:17 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



TIC: BN007449.D

(10) Phenanthrene-d10 (I)

16.899min (+0.093) 0.40ng/ul

response 2378364

Ion	Exp%	Act%
188.00	100	100
94.00	11.30	12.45
80.00	12.40	11.42
0.00	0.00	0.00

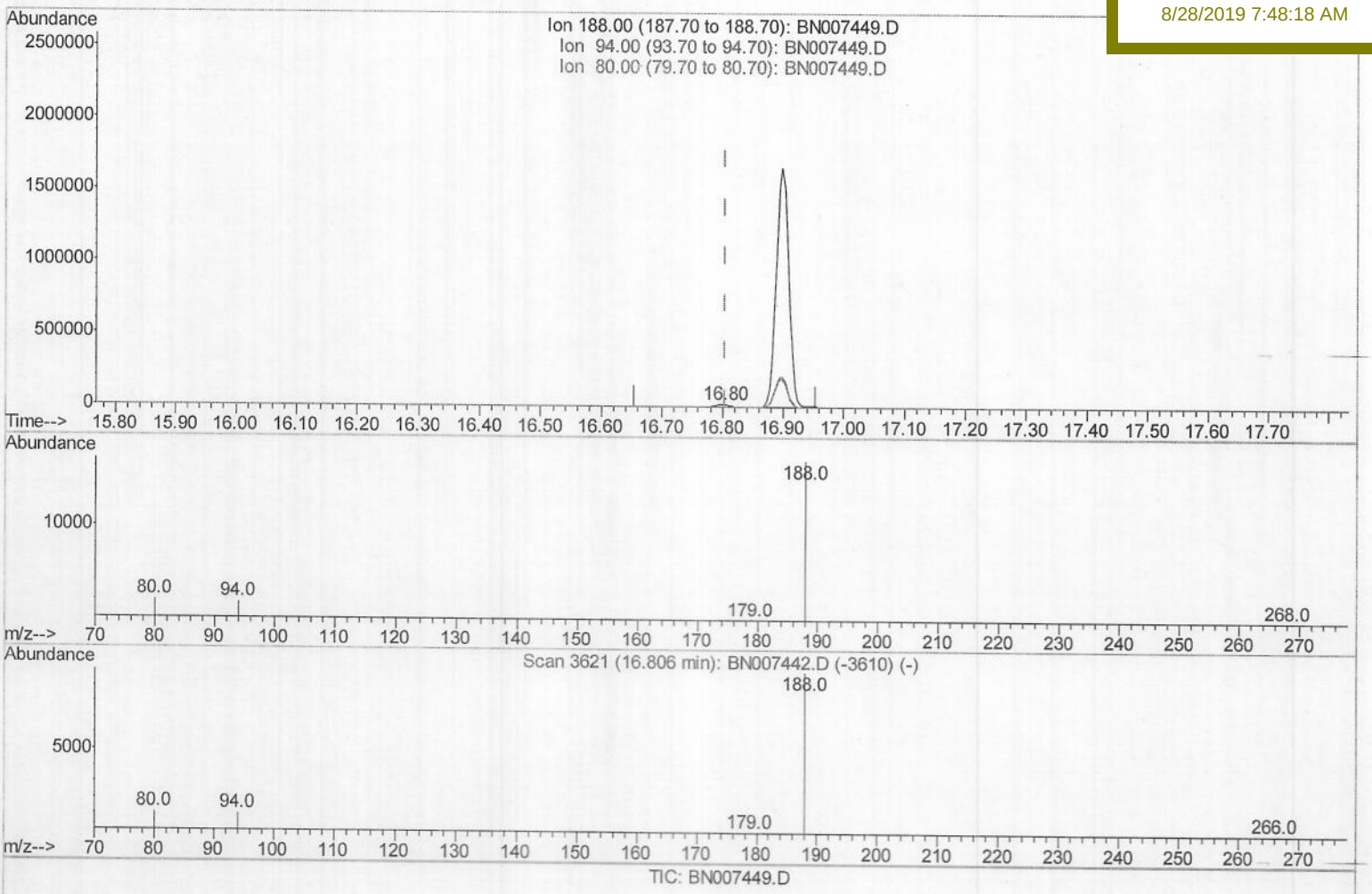
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:11:17 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



TIC: BN007449.D

(10) Phenanthrene-d10 (I)

16.802min (-0.004) 0.40ng/ul m) JU 08|28|19

response 23449

Ion	Exp%	Act%
188.00	100	100
94.00	11.30	10.86
80.00	12.40	12.19
0.00	0.00	0.00

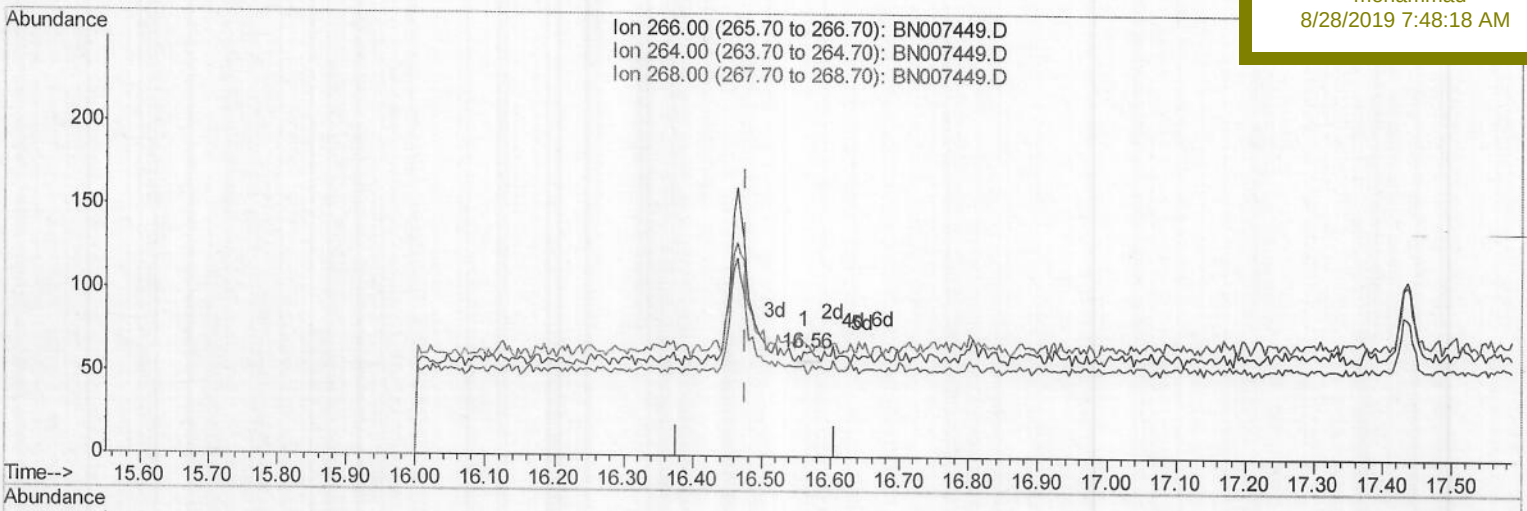
Quantitation Report (Qedit)

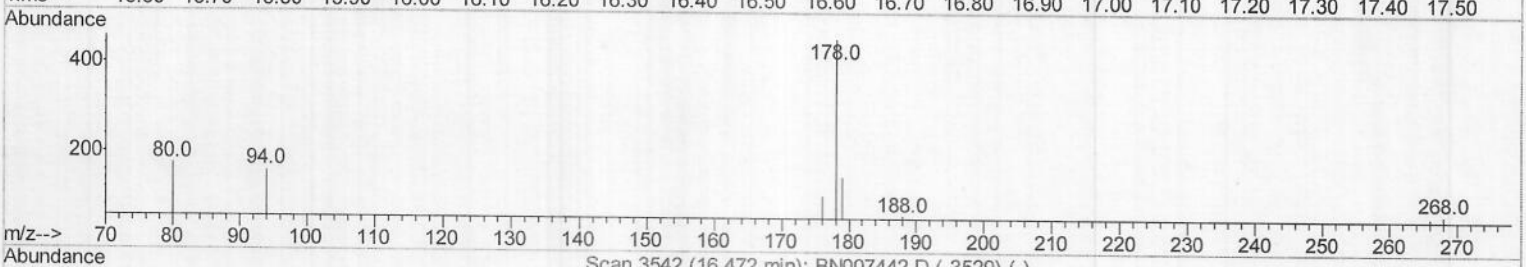
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

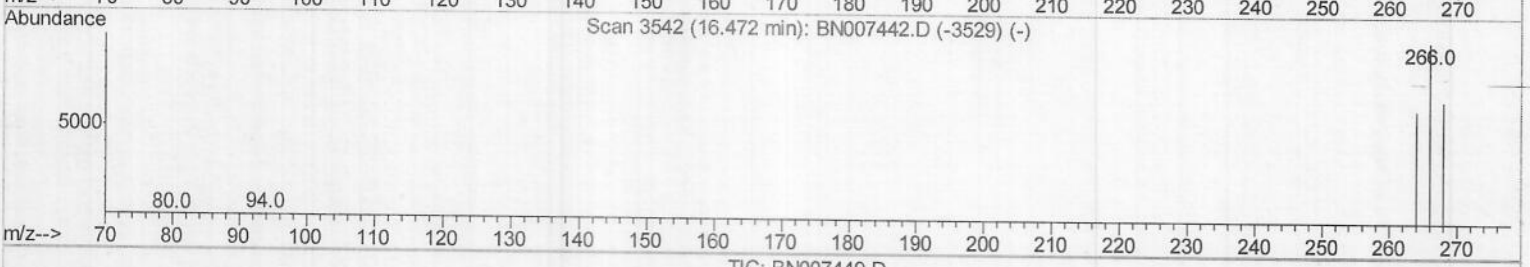
Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM







TIC: BN007449.D

(11) Pentachlorophenol

16.561min (+0.084) 0.00ng/ul

response 9

Ion	Exp%	Act%
266.00	100	100
264.00	61.30	0.00#
268.00	62.70	100.00#
0.00	0.00	0.00

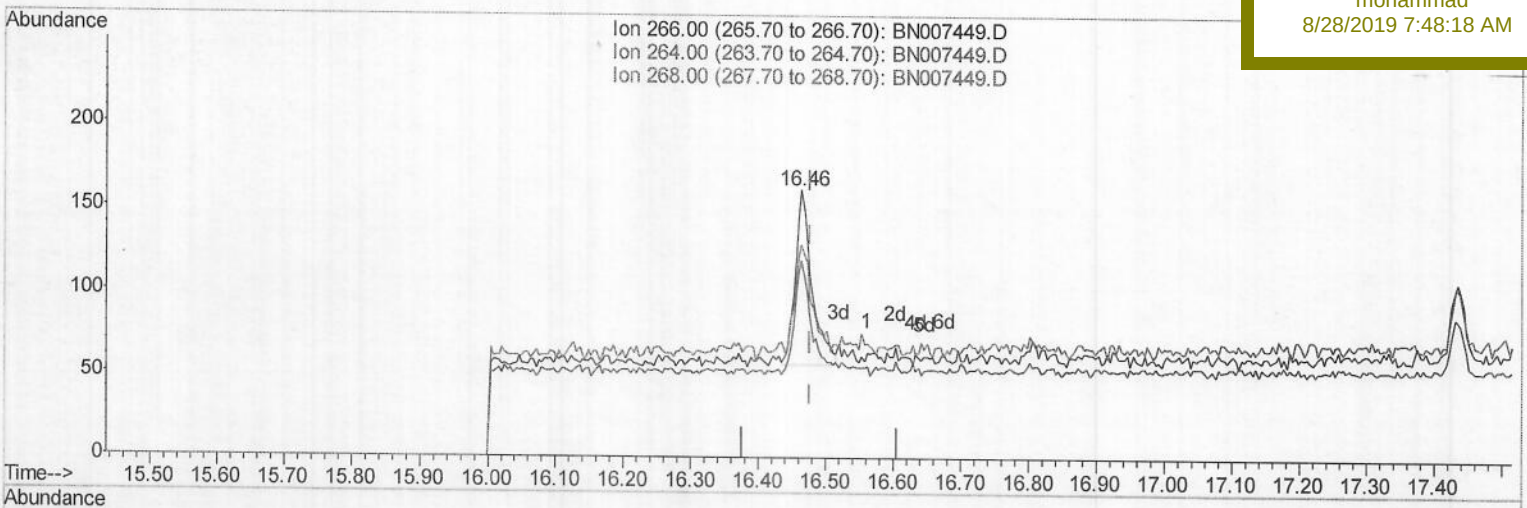
Quantitation Report (Qedit)

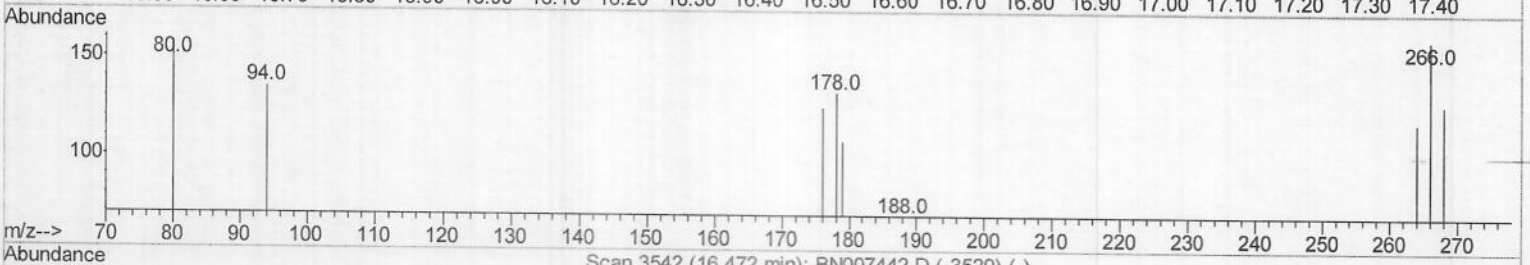
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

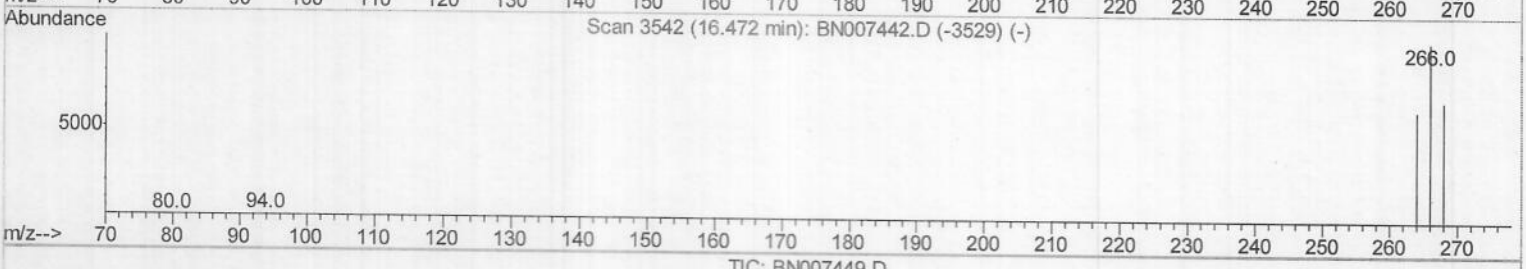
Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM







TIC: BN007449.D

(11) Pentachlorophenol

16.464min (-0.013) 0.03ng/ul m JU 08/28/19

response 183

Ion	Exp%	Act%
266.00	100	100
264.00	61.30	0.00#
268.00	62.70	4.92#
0.00	0.00	0.00

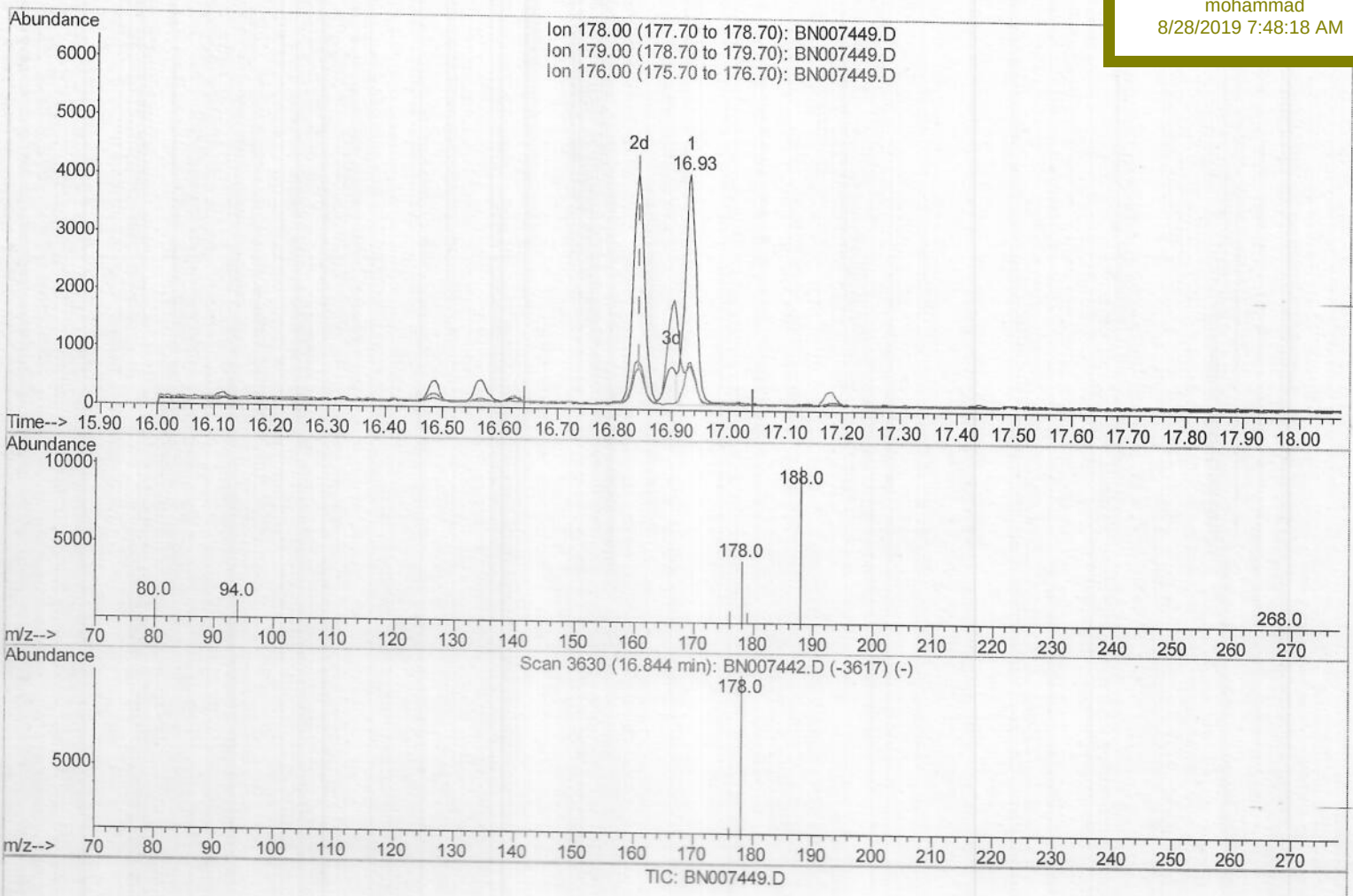
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



(12) Phenanthrene

16.933min (+0.089) 0.08ng/ul

response 5686

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	18.14
176.00	19.00	20.09
0.00	0.00	0.00

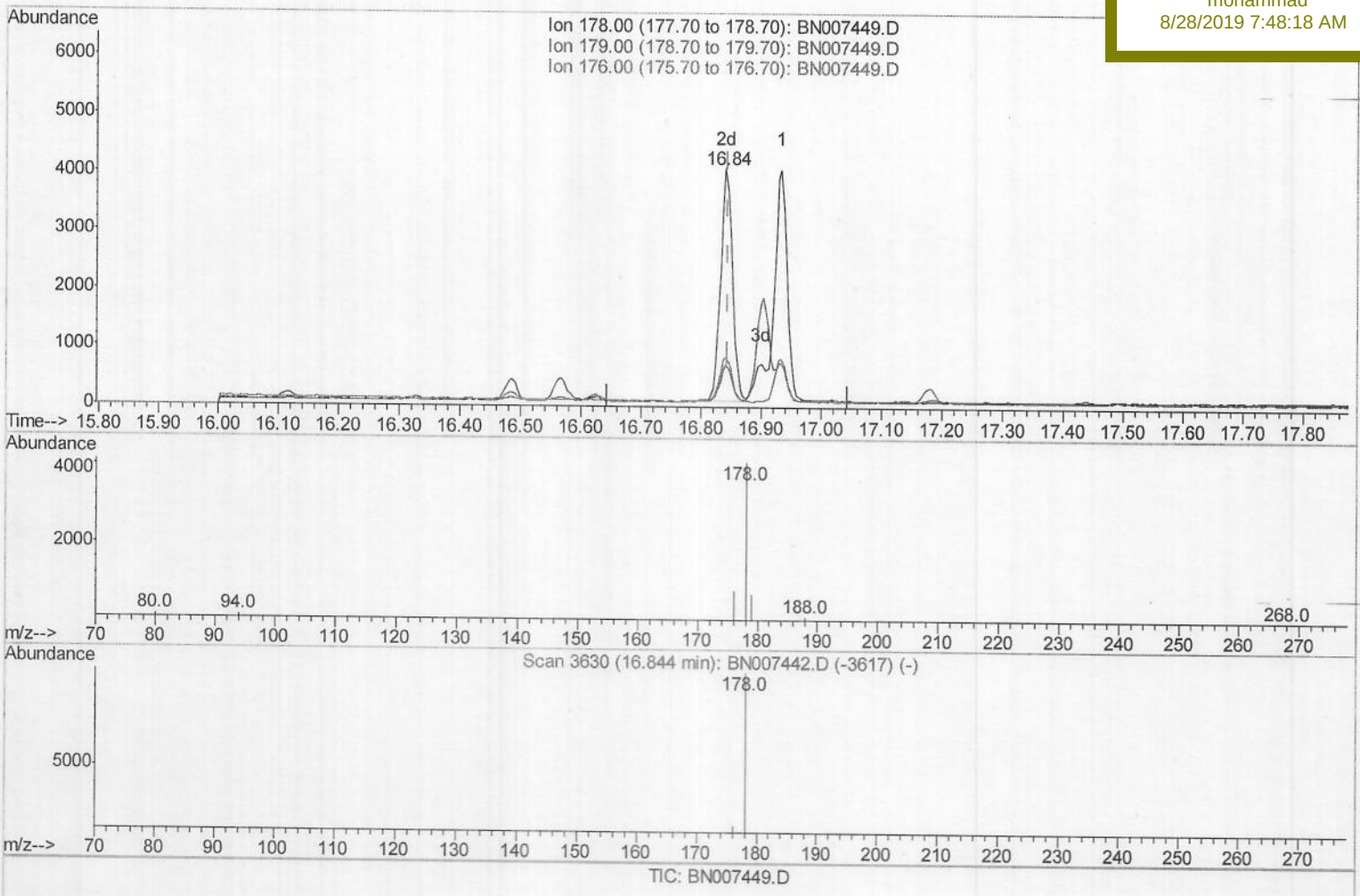
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



(12) Phenanthrene

16.840min (-0.004) 0.07ng/ul m JU 08/28/19

response 5487

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	17.43
176.00	19.00	20.53
0.00	0.00	0.00

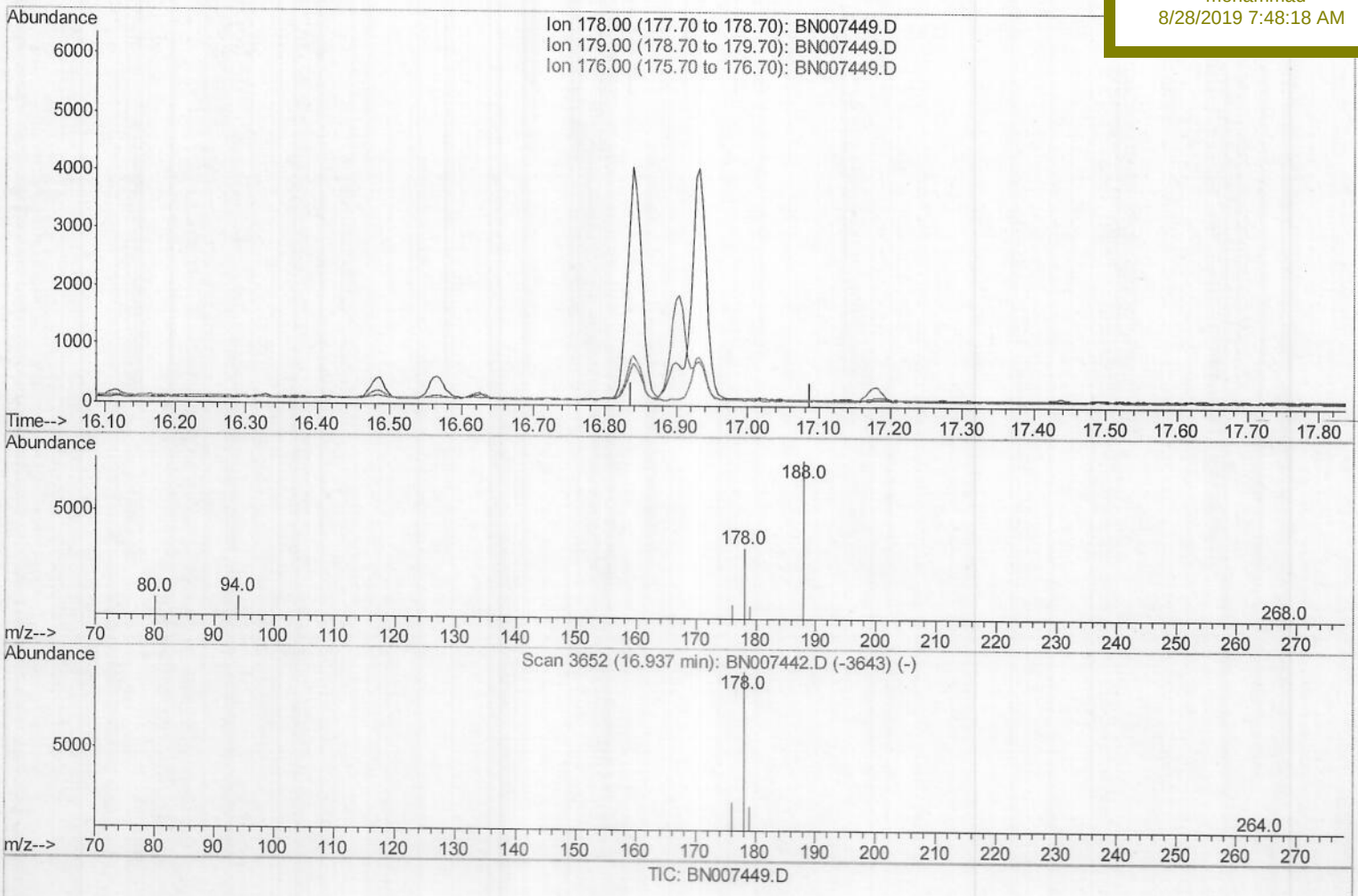
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



TIC: BN007449.D

(13) Anthracene

16.937min (-16.937) 0.00ng/ul

response 0

Ion	Exp%	Act%
178.00	100	0.00
179.00	16.00	0.00#
176.00	18.20	0.00#
0.00	0.00	0.00

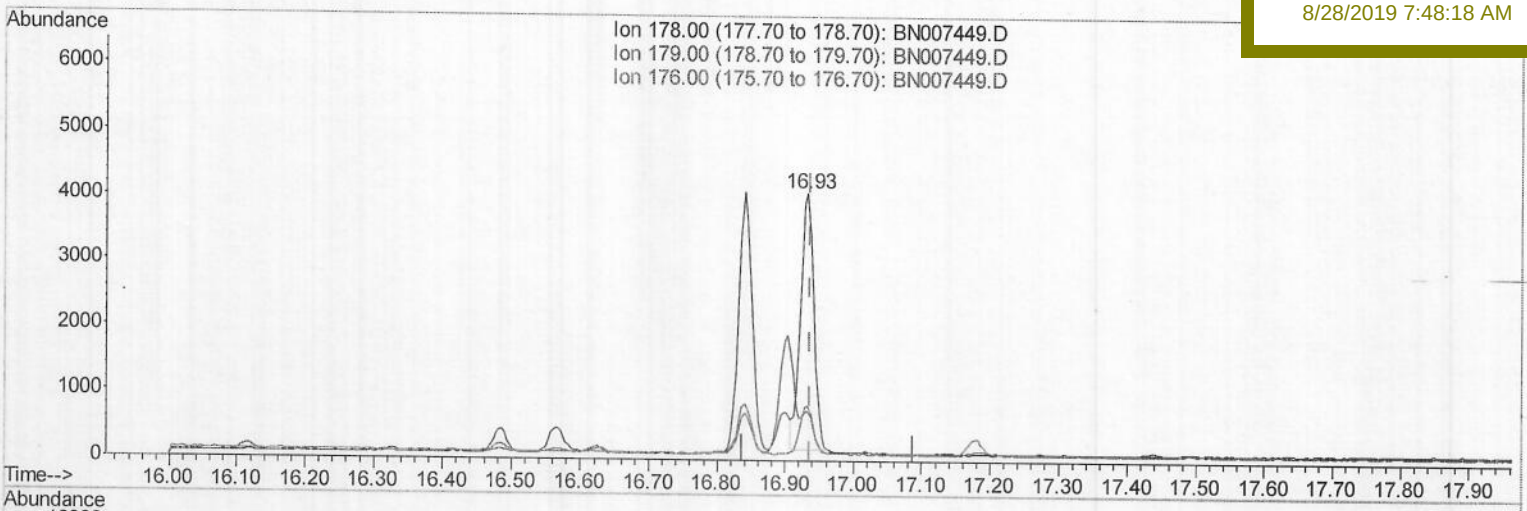
Quantitation Report (Qedit)

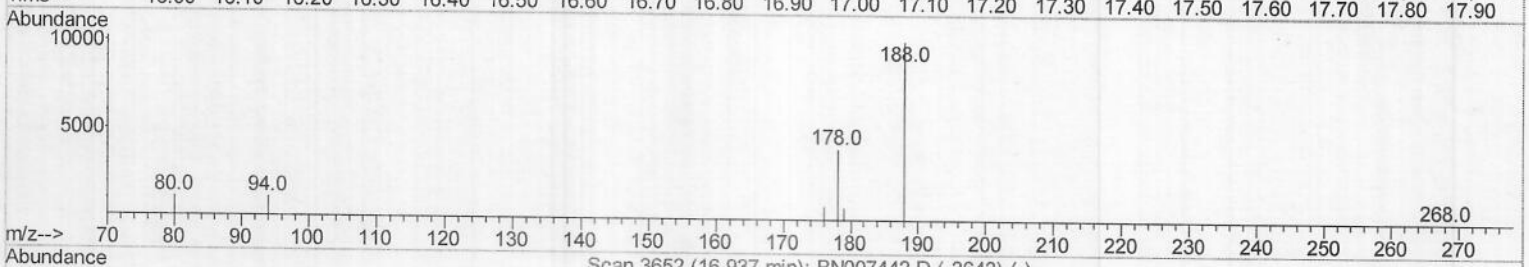
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

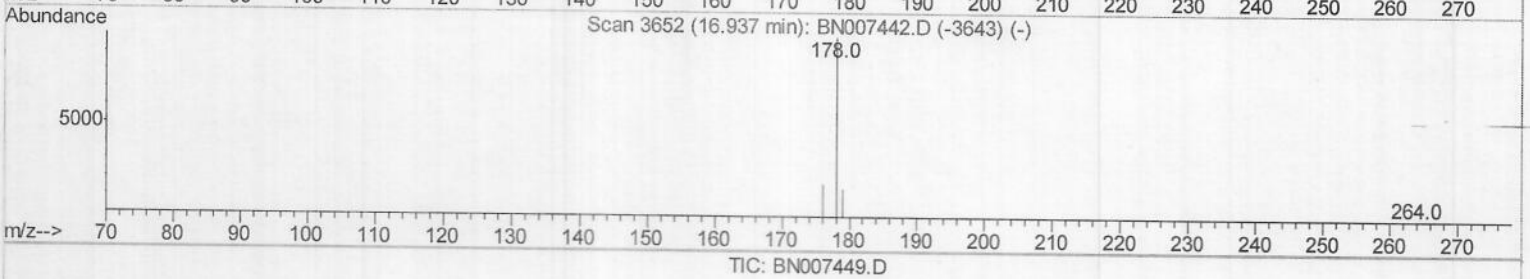
Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM







TIC: BN007449.D

(13) Anthracene

16.933min (-0.004) 0.08ng/ul m JU 08/28/19

response 5307

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	18.14
176.00	18.20	20.09
0.00	0.00	0.00

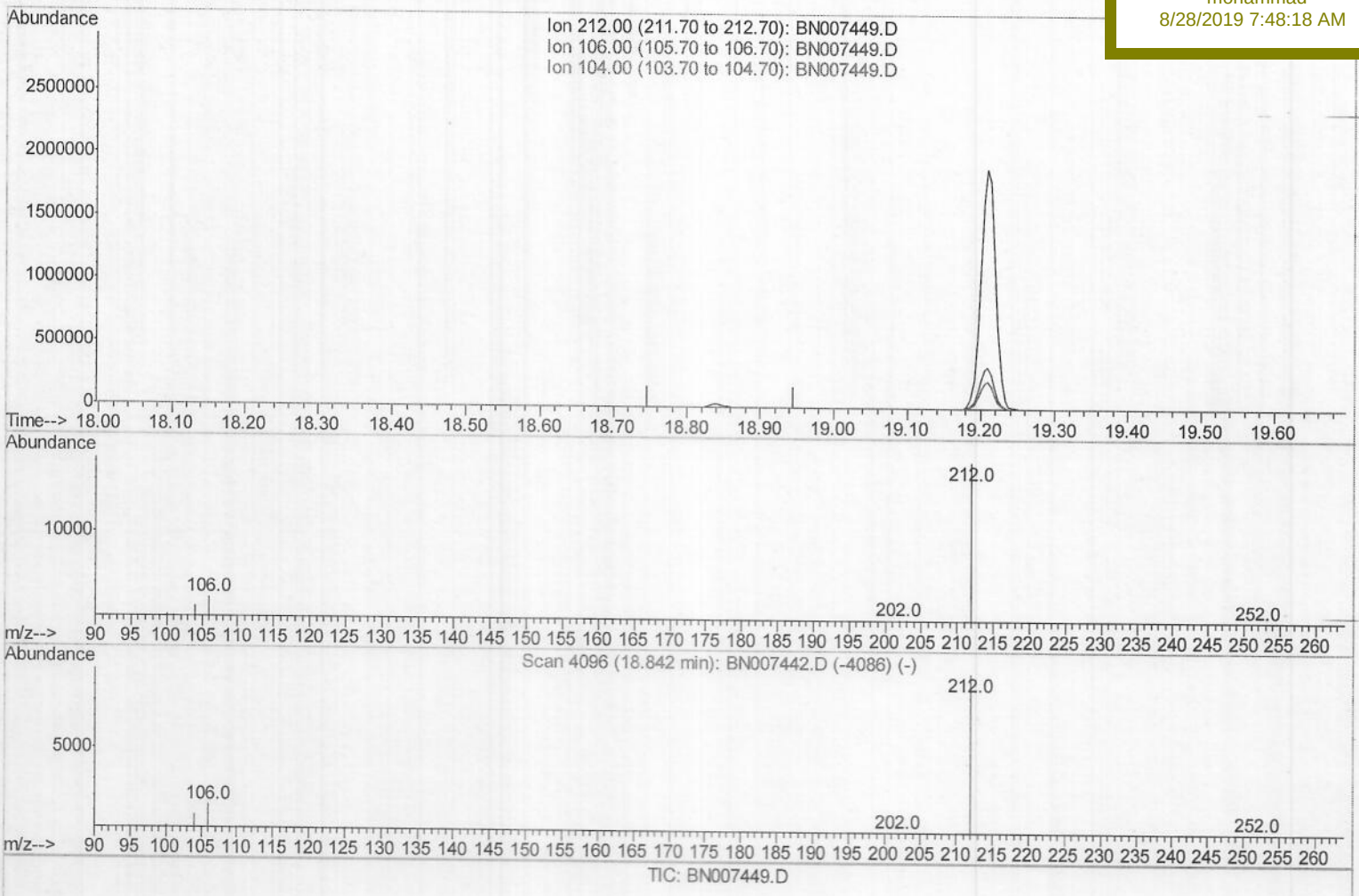
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



(14) Fluoranthene-d10 (SURR)

18.847min (-18.847) 0.00ng/ul

response 0

Ion	Exp%	Act%
212.00	100	0.00
106.00	14.30	0.00#
104.00	8.00	0.00#
0.00	0.00	0.00

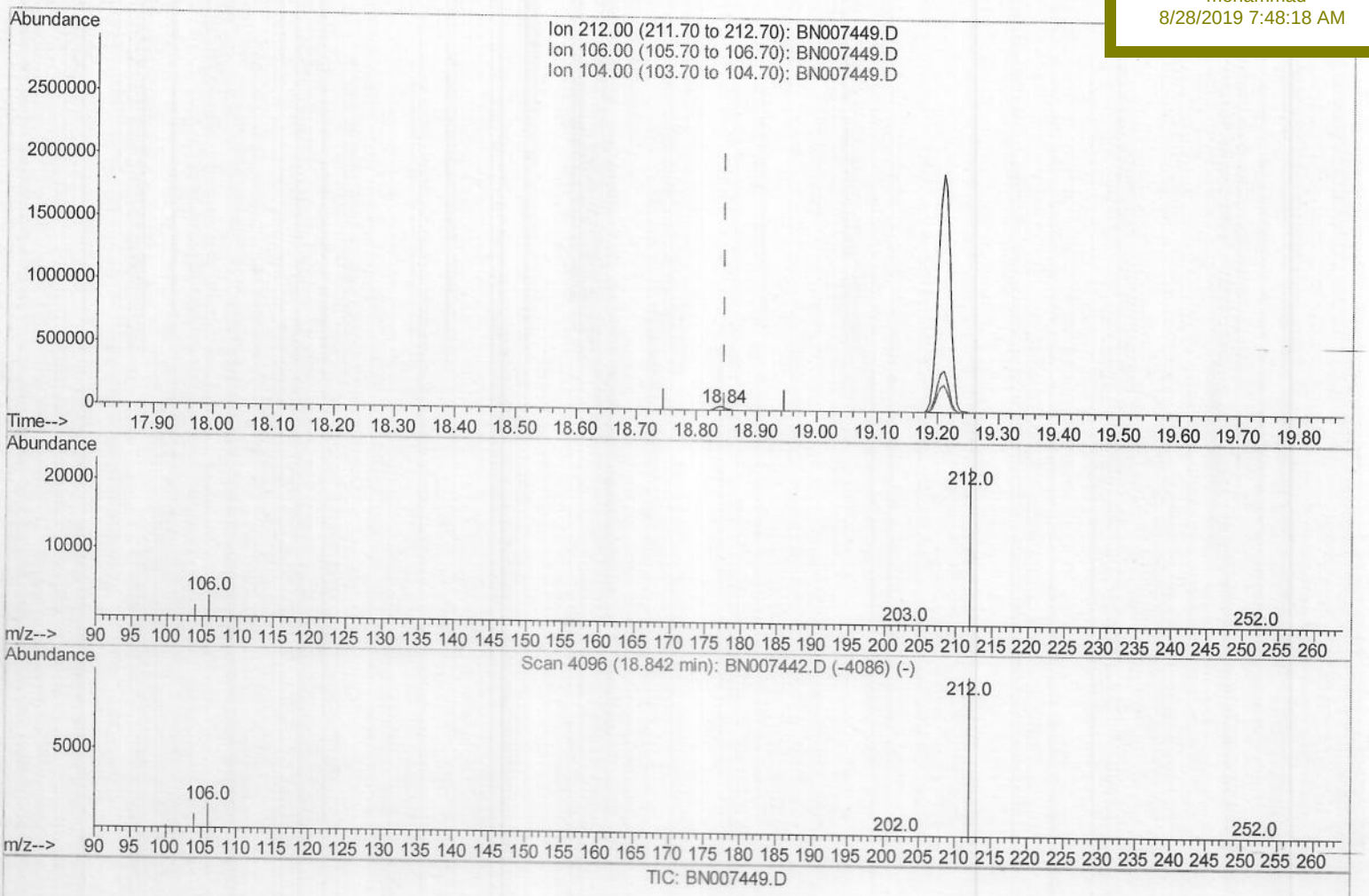
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



TIC: BN007449.D

(14) Fluoranthene-d10 (SURR)

18.842min (-0.005) 0.41ng/ul m JU 08/28/19

response 31150

Ion	Exp%	Act%
212.00	100	100
106.00	14.30	0.00#
104.00	8.00	0.00#
0.00	0.00	0.00

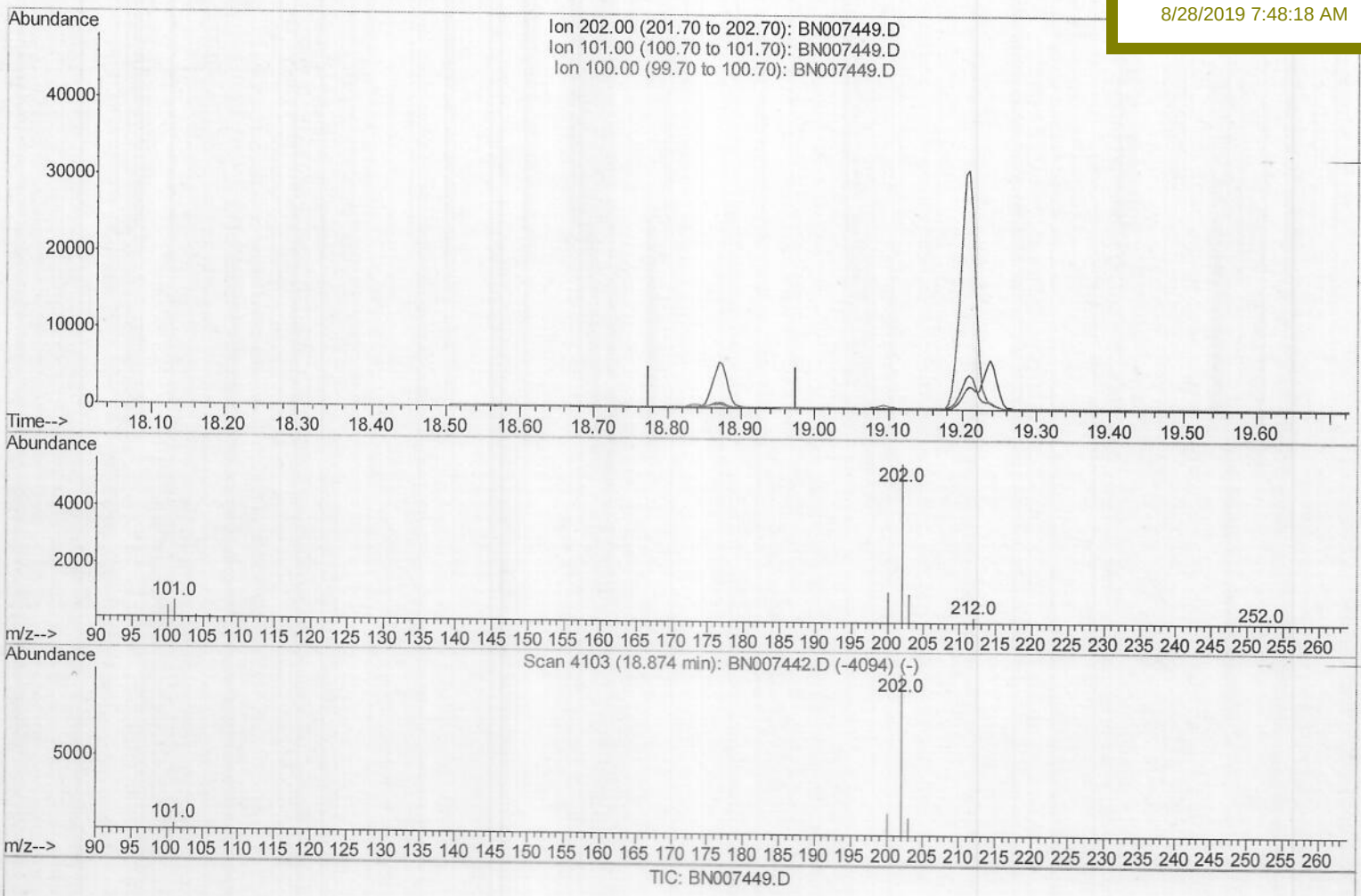
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



(15) Fluoranthene (C)

18.875min (-18.875) 0.00ng/ul

response 0

Ion	Exp%	Act%
202.00	100	0.00
101.00	11.30	0.00
100.00	8.50	0.00
0.00	0.00	0.00

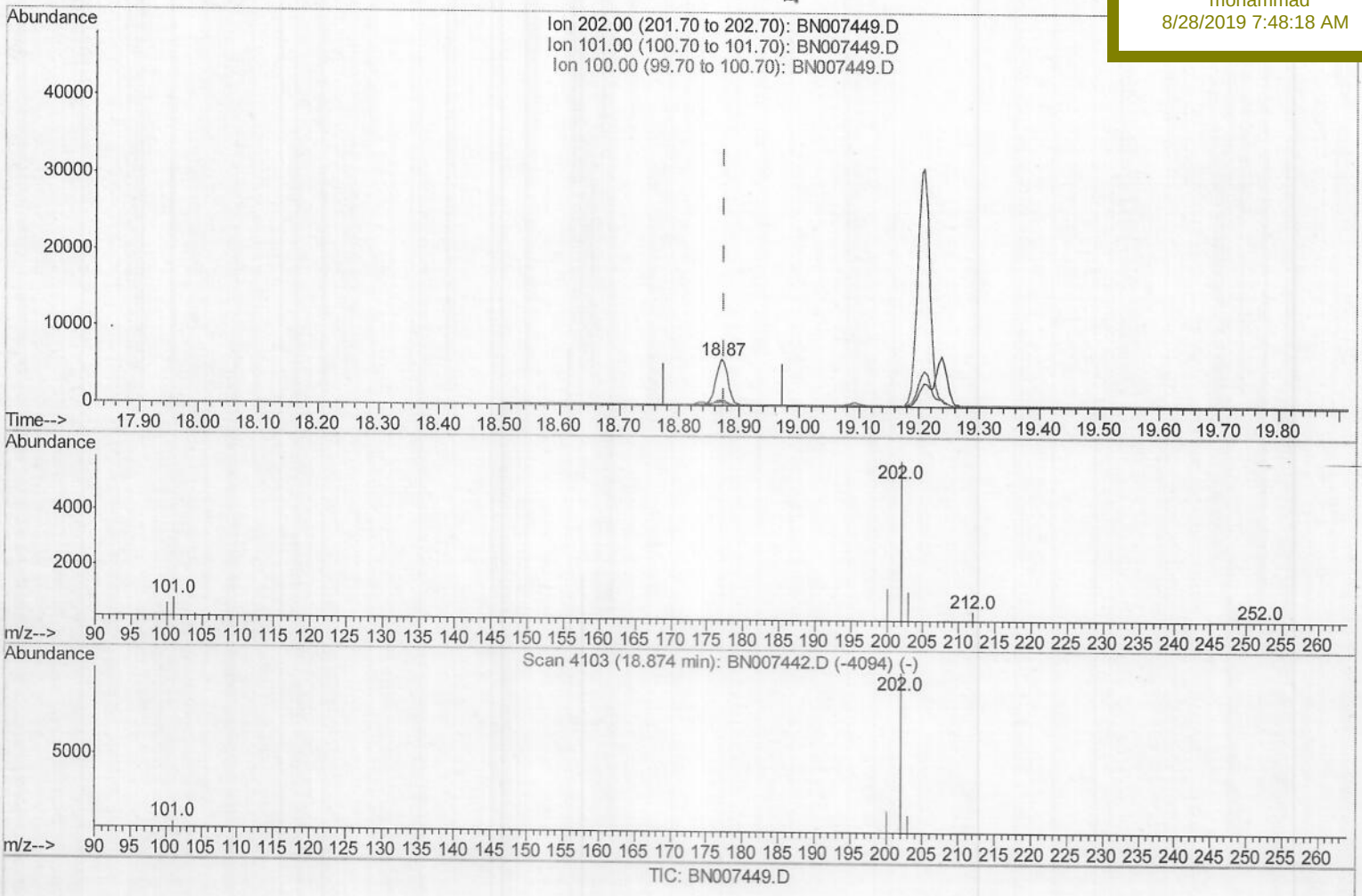
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



TIC: BN007449.D

(15) Fluoranthene (C)

18.870min (-0.005) 0.08ng/ul m JU 08/28/19

response 7917

Ion	Exp%	Act%
202.00	100	100
101.00	11.30	12.47
100.00	8.50	9.52
0.00	0.00	0.00

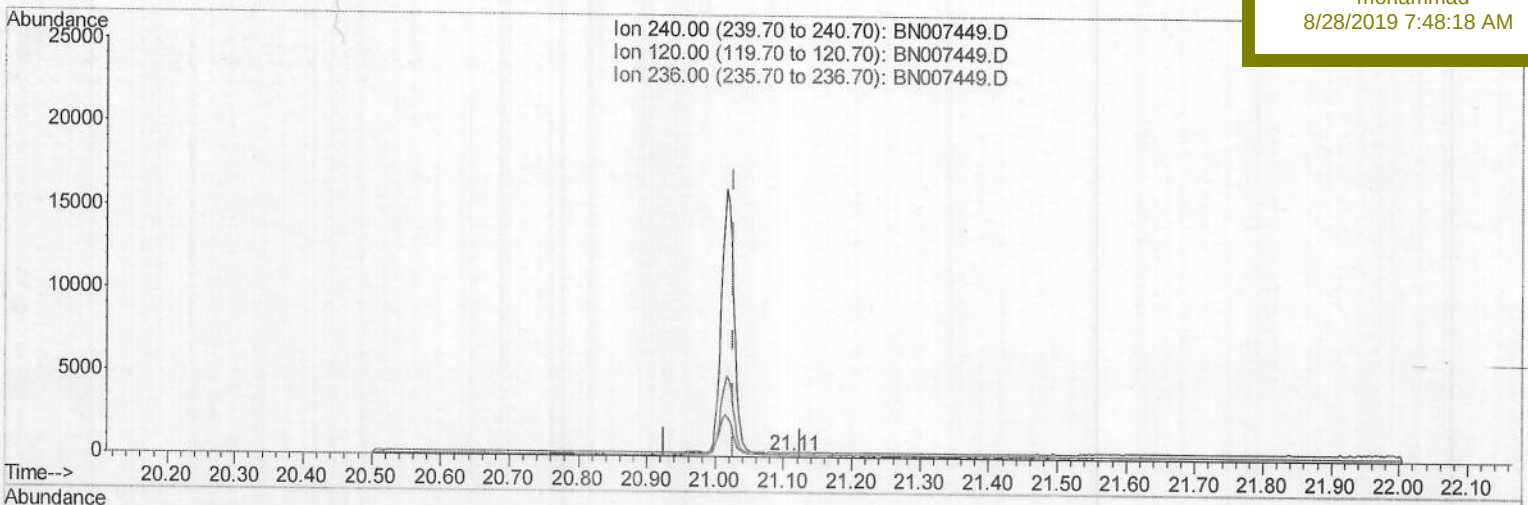
Quantitation Report (Qedit)

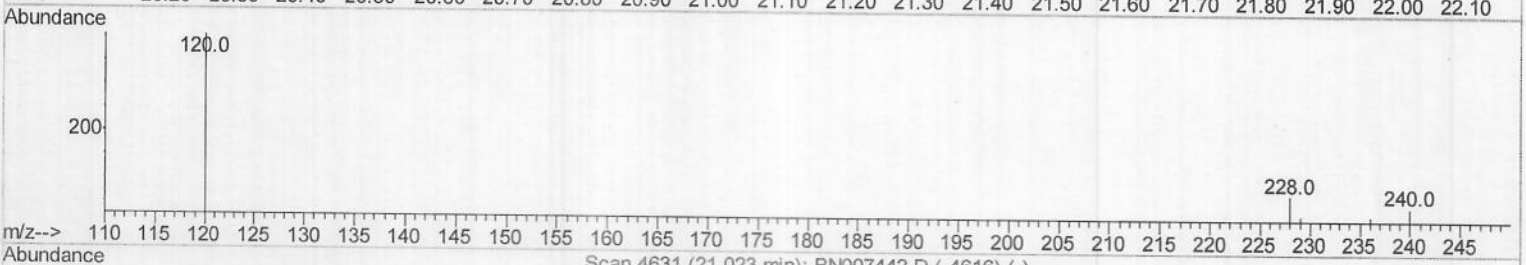
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

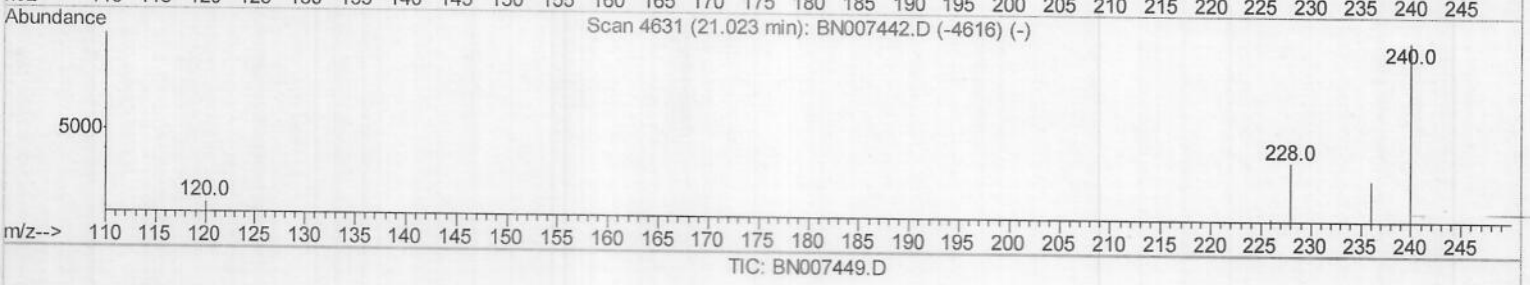
Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM







(16) Chrysene-d12 (I)

21.113min (+0.088) 0.40ng/ul

response 50

Ion	Exp%	Act%
240.00	100	100
120.00	15.00	200.00#
236.00	28.60	94.33#
0.00	0.00	0.00

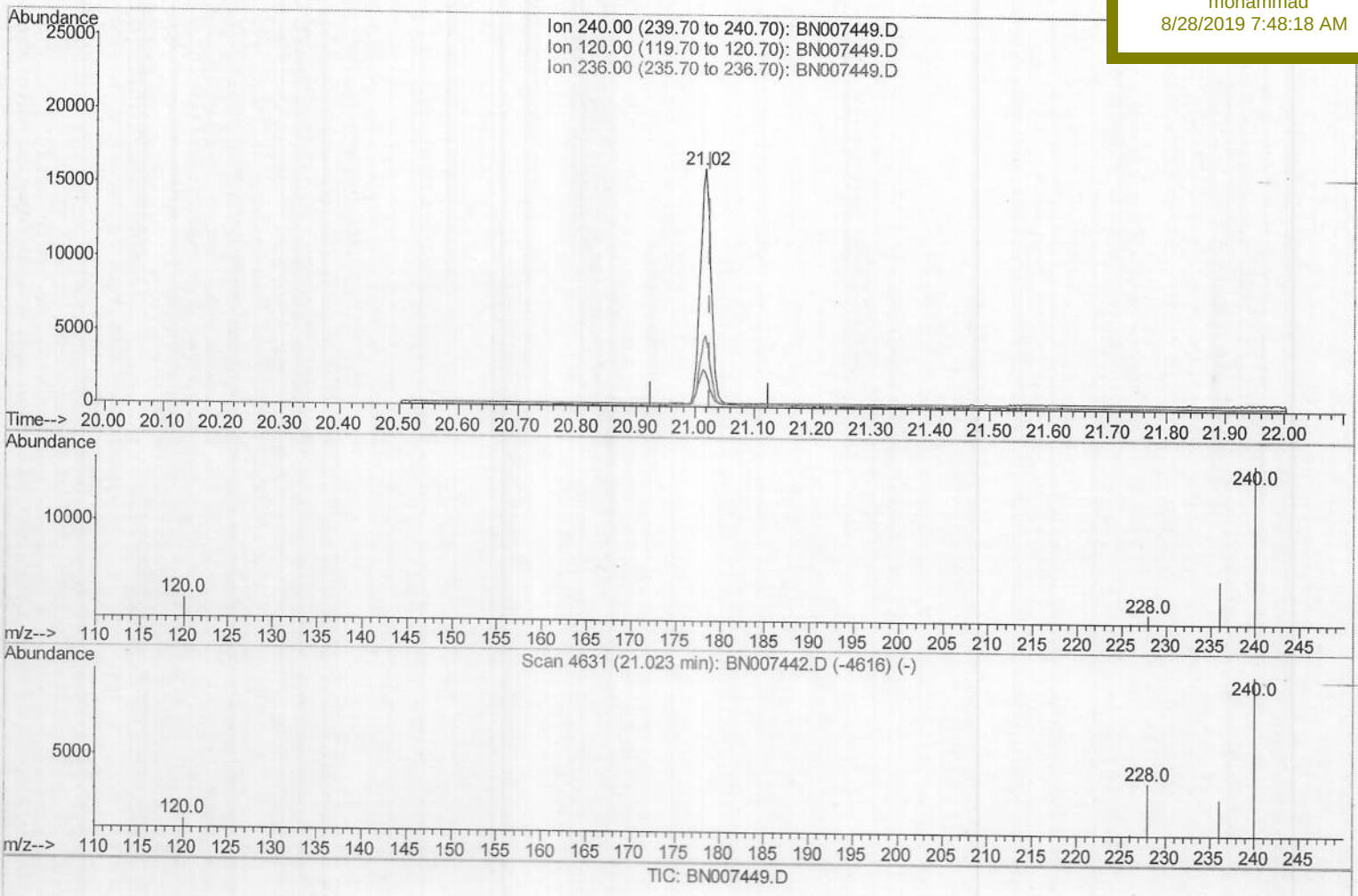
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:12:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



TIC: BN007449.D

(16) Chrysene-d12 (I)

21.017min (-0.009) 0.40ng/ul m JU 08/28/19

response 20639

Ion	Exp%	Act%
240.00	100	100
120.00	15.00	14.65
236.00	28.60	29.90
0.00	0.00	0.00

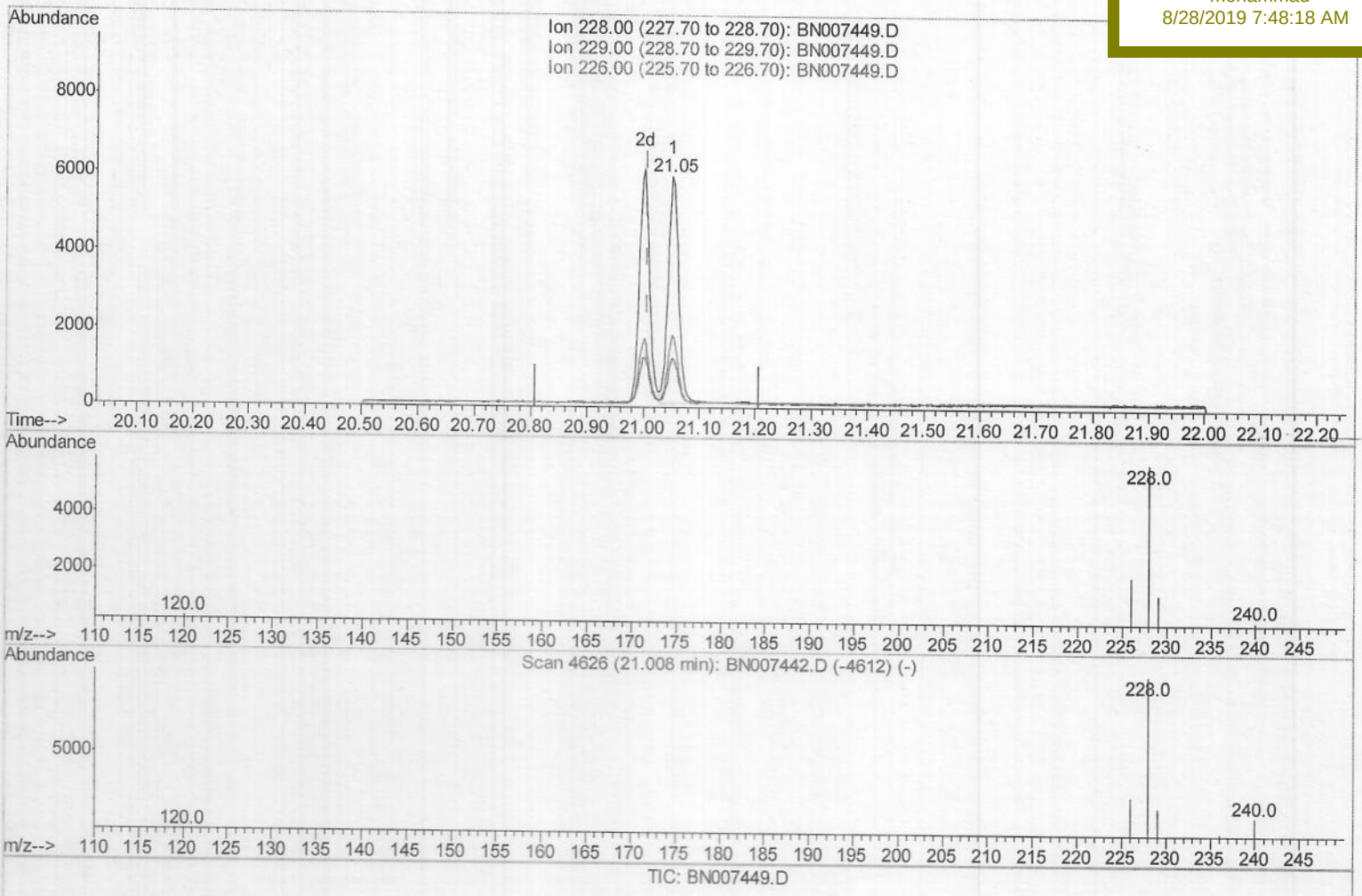
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:15:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



TIC: BN007449.D

(18) Benzo(a)anthracene

21.052min (+0.044) 0.09ng/ul

response 7923

Ion	Exp%	Act%
228.00	100	100
229.00	19.30	21.42
226.00	27.50	32.01
0.00	0.00	0.00

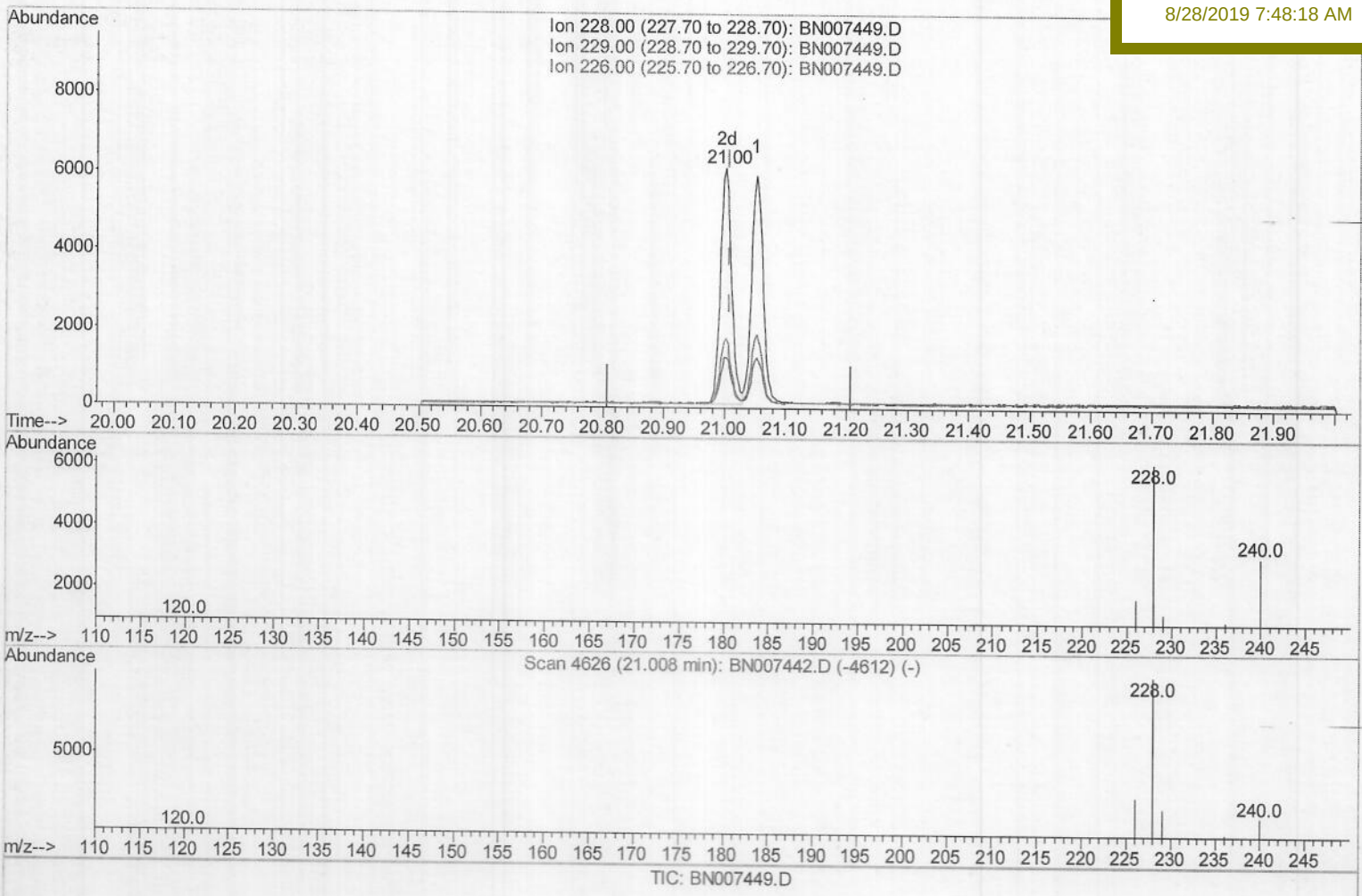
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 28 02:15:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM



TIC: BN007449.D

(18) Benzo(a)anthracene

21.002min (-0.006) 0.08ng/ul m) JV 08/28/19

response 7655

Ion	Exp%	Act%
228.00	100	100
229.00	19.30	20.97
226.00	27.50	28.98
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\
Data File : BN007449.D
Acq On : 28 Aug 2019 01:29
Operator : HP/JU
Sample : K4337-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
C0AH5

Manual Integrations APPROVED
mohammad
8/28/2019 7:48:18 AM

Quant Time: Aug 28 02:20:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 27 20:30:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	4598	0.40	ng/ul	0.00
2) Naphthalene-d8	10.15	136	19157	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.05	164	11110	0.40	ng/ul	0.00
10) Phenanthrene-d10	16.80	188	23449m	0.40	ng/ul	0.00
16) Chrysene-d12	21.02	240	20639m	0.40	ng/ul	0.00
20) Perylene-d12	23.12	264	26393	0.40	ng/ul	0.00
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.76	152	11255	0.38	ng/ul	0.00
14) Fluoranthene-d10	18.84	212	31150m	0.41	ng/ul	0.00
Target Compounds						Qvalue
7) Acenaphthylene	13.76	152	1843	0.030	ng/ul#	83
8) Acenaphthene	14.11	153	1273	0.029	ng/ul	97
9) Fluorene	15.11	166	2401	0.050	ng/ul#	97
11) Pentachlorophenol	16.46	266	183m	0.035	ng/ul	
12) Phenanthrene	16.84	178	5487m	0.075	ng/ul	
13) Anthracene	16.93	178	5307m	0.077	ng/ul	
15) Fluoranthene	18.87	202	7917m	0.081	ng/ul	
17) Pyrene	19.24	202	8401	0.083	ng/ul#	95
18) Benzo(a)anthracene	21.00	228	7655m	0.083	ng/ul	
19) Chrysene	21.05	228	7718	0.078	ng/ul	97
21) Benzo(b)fluoranthene	22.50	252	8471	0.073	ng/ul	87
22) Benzo(k)fluoranthene	22.54	252	8298	0.069	ng/ul#	69
23) Benzo(a)pyrene	23.03	252	7472	0.065	ng/ul#	87
24) Indeno(1,2,3-cd)pyrene	25.18	276	10214	0.079	ng/ul#	98
25) Dibenzo(a,h)anthracene	25.20	278	7875	0.077	ng/ul#	86
26) Benzo(g,h,i)perylene	25.81	276	8612	0.078	ng/ul#	91

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