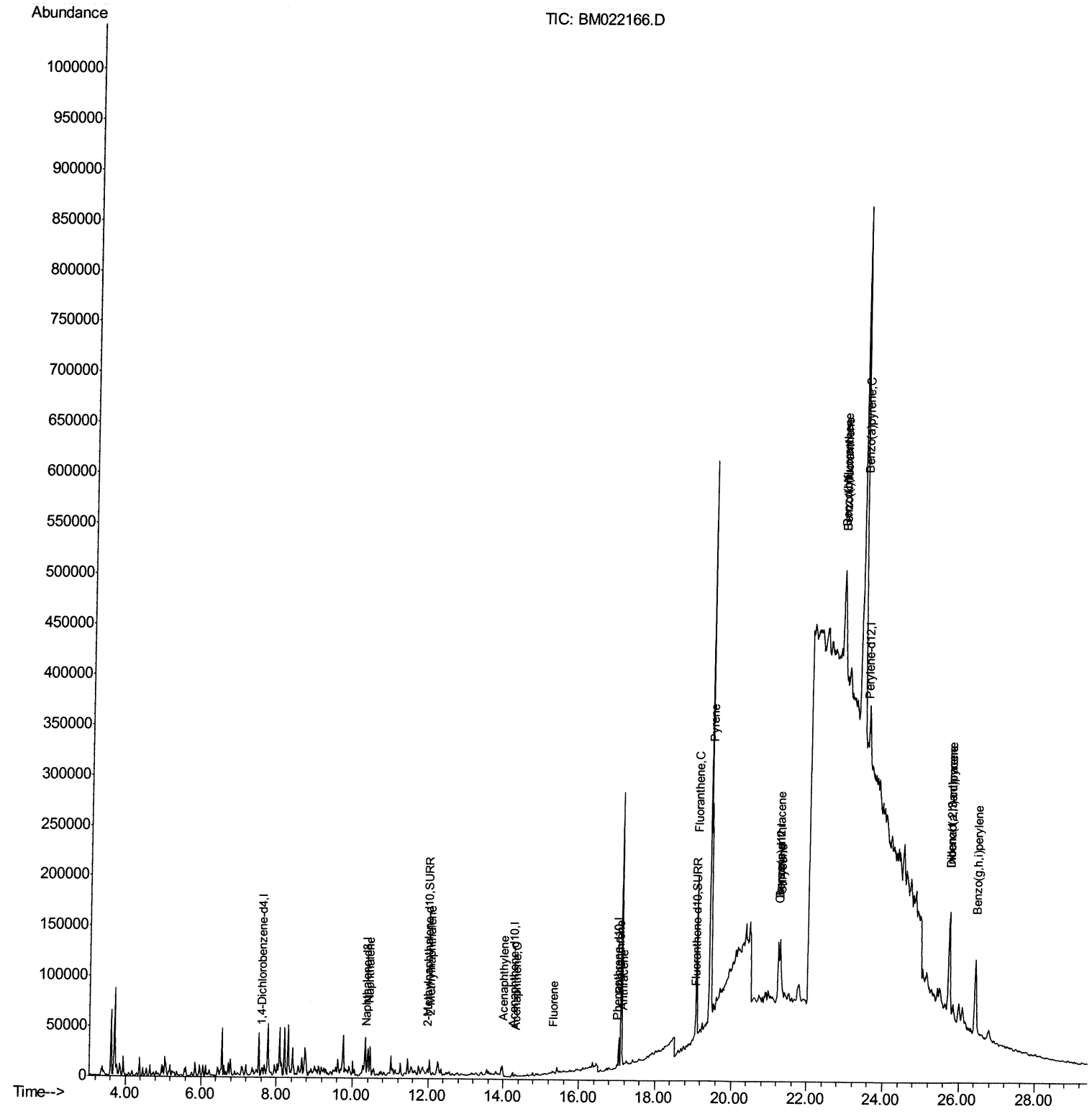
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:04:47 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM

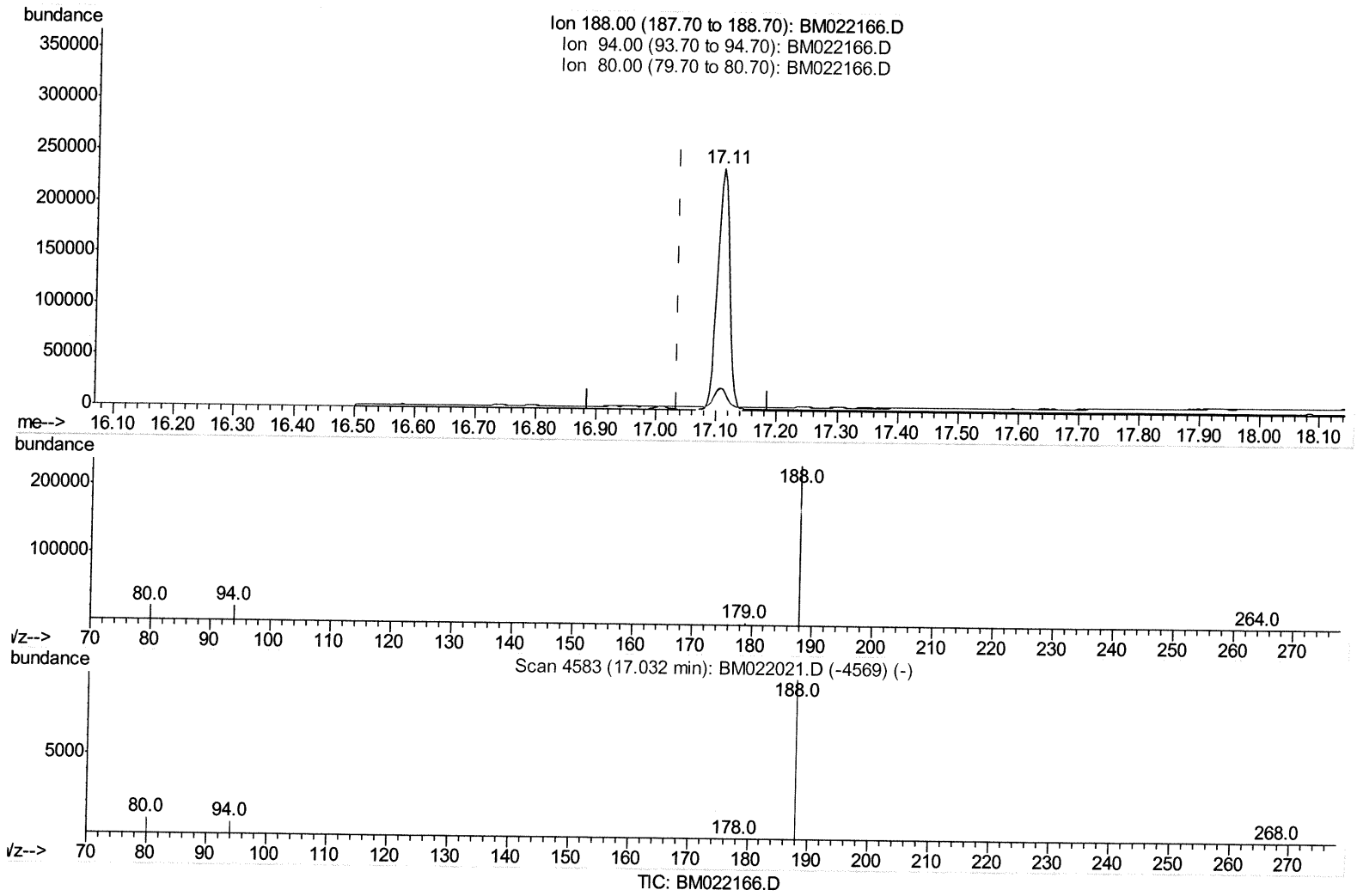


Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



TIC: BM022166.D

(10) Phenanthrene-d10 (I)

17.109min (+0.073) 0.40ng/ul

response 322375

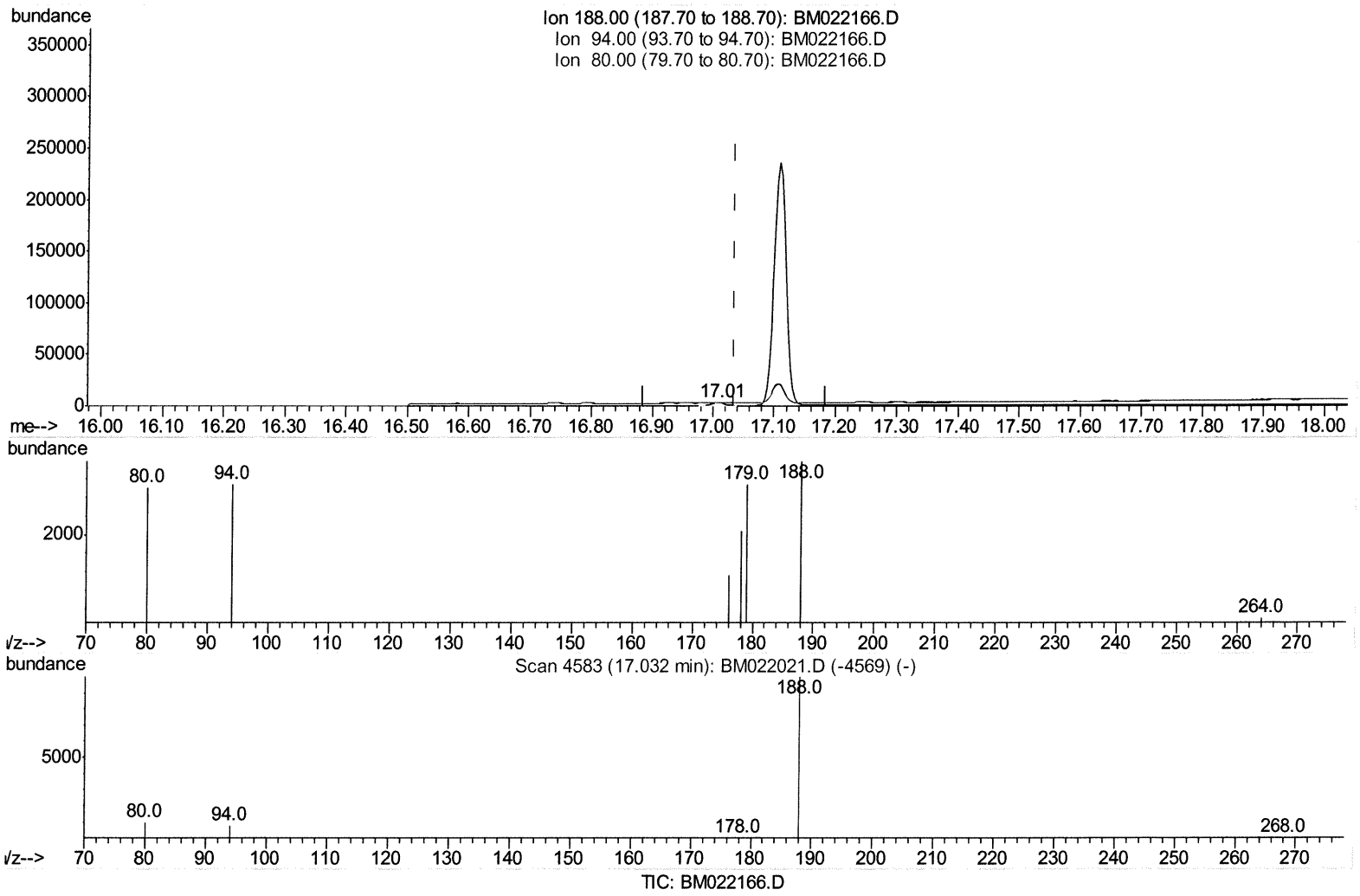
Ion	Exp%	Act%
188.00	100	100
94.00	10.40	9.32
80.00	11.40	8.92#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(10) Phenanthrene-d10 (I)

17.011min (-0.024) 0.40ng/ul m JU 08/20/19

response 4463

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	86.31#
80.00	11.40	84.41#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
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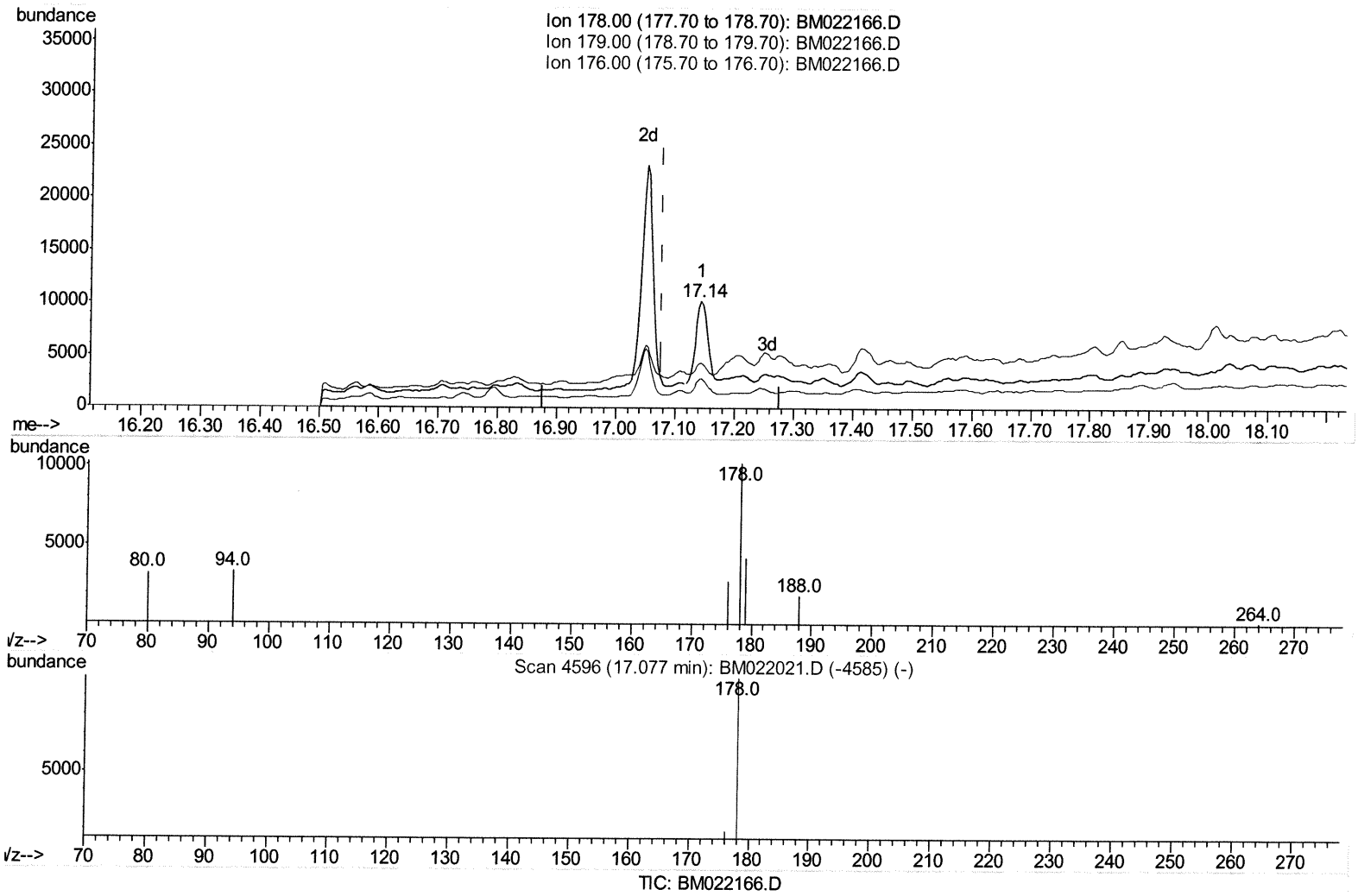

(12) Phenanthrene

17.143min (+0.066) 1.01ng/ul

response 13175

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	41.97#
176.00	21.00	27.51#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
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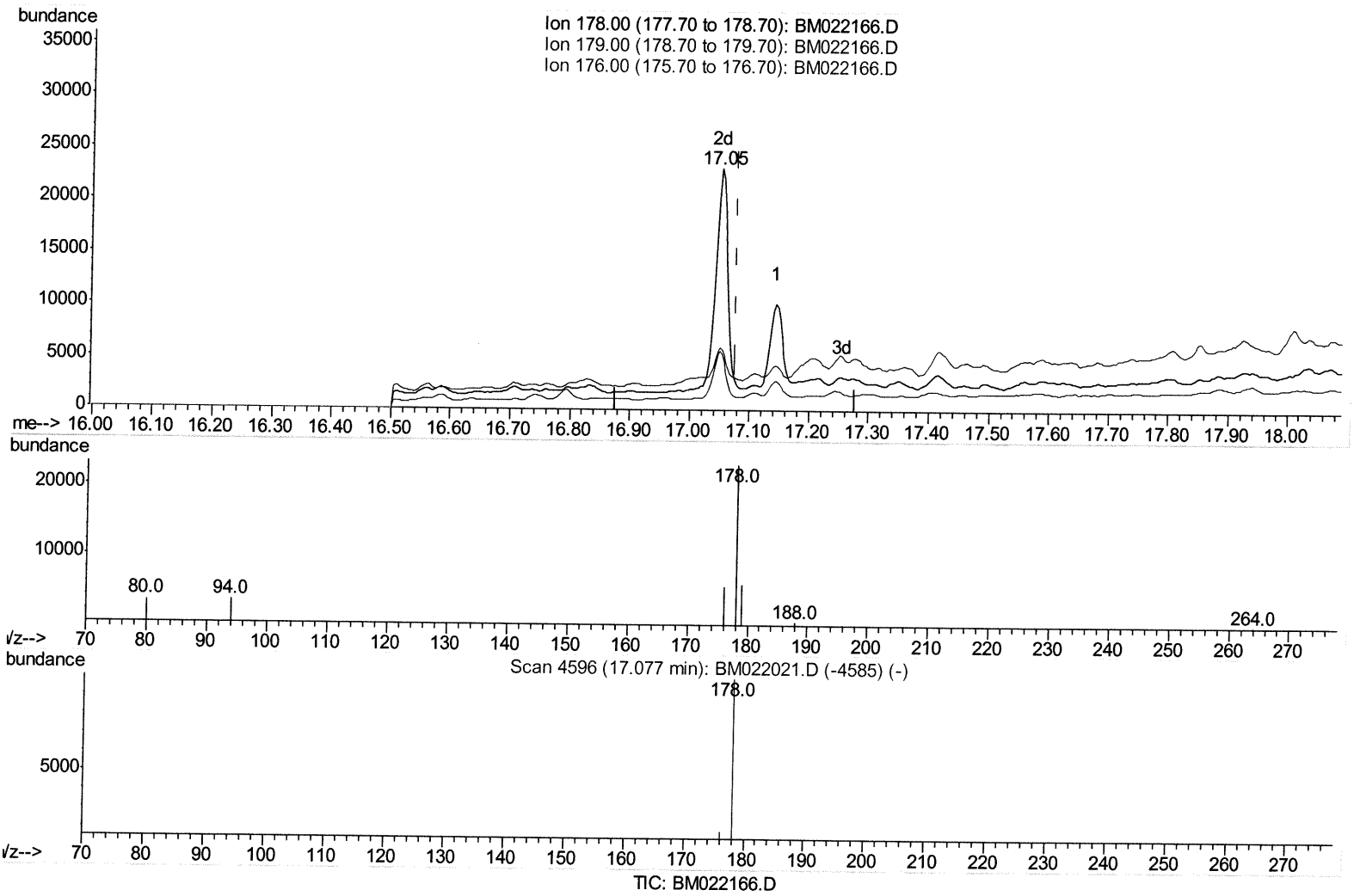

(12) Phenanthrene

17.050min (-0.028) 2.31ng/ul m JU 08/20/19

response 29993

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	25.78#
176.00	21.00	24.53
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
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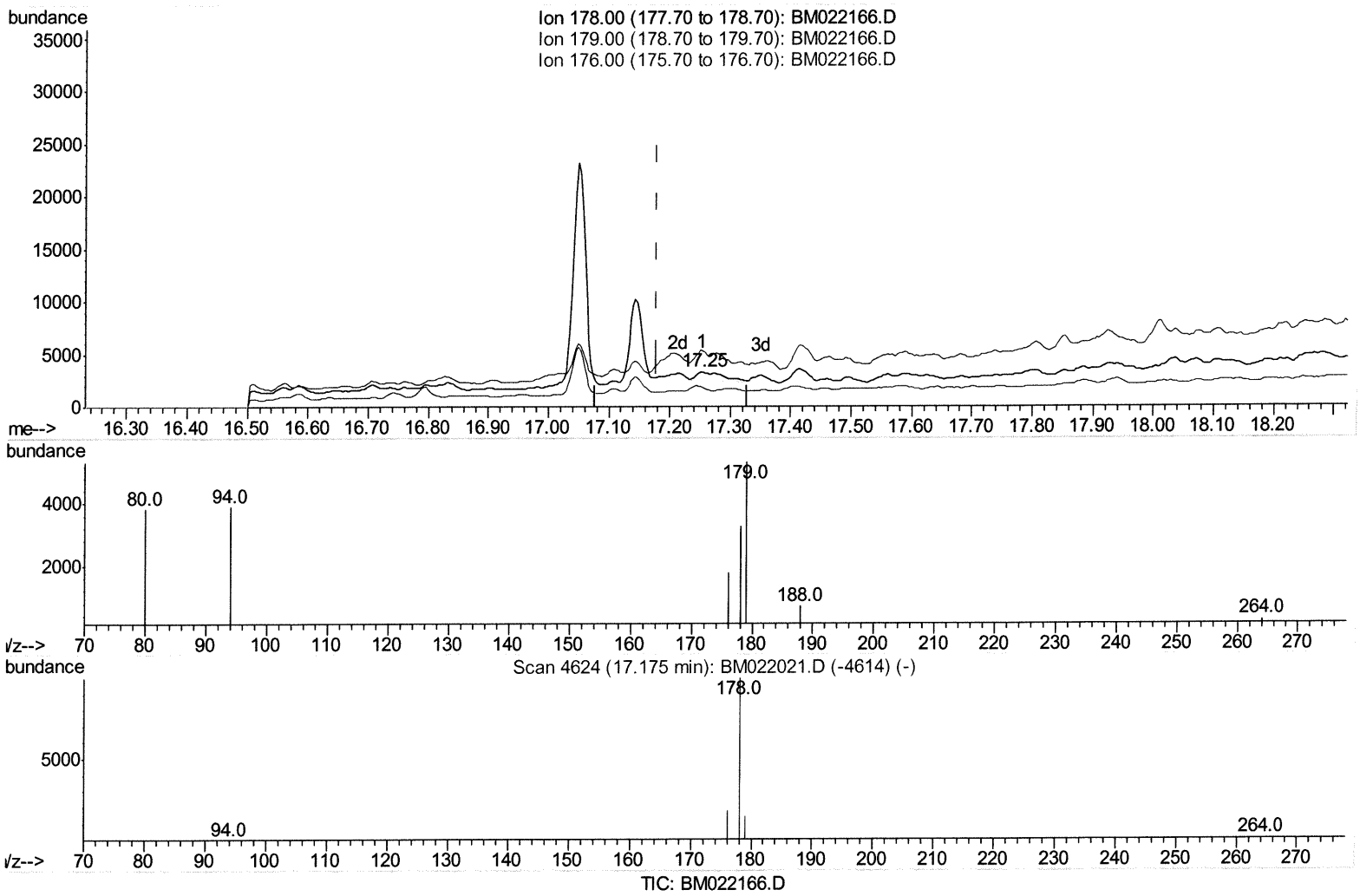


TIC: BM022166.D

(13) Anthracene

17.254min (+0.076) 0.25ng/ul

response 2788

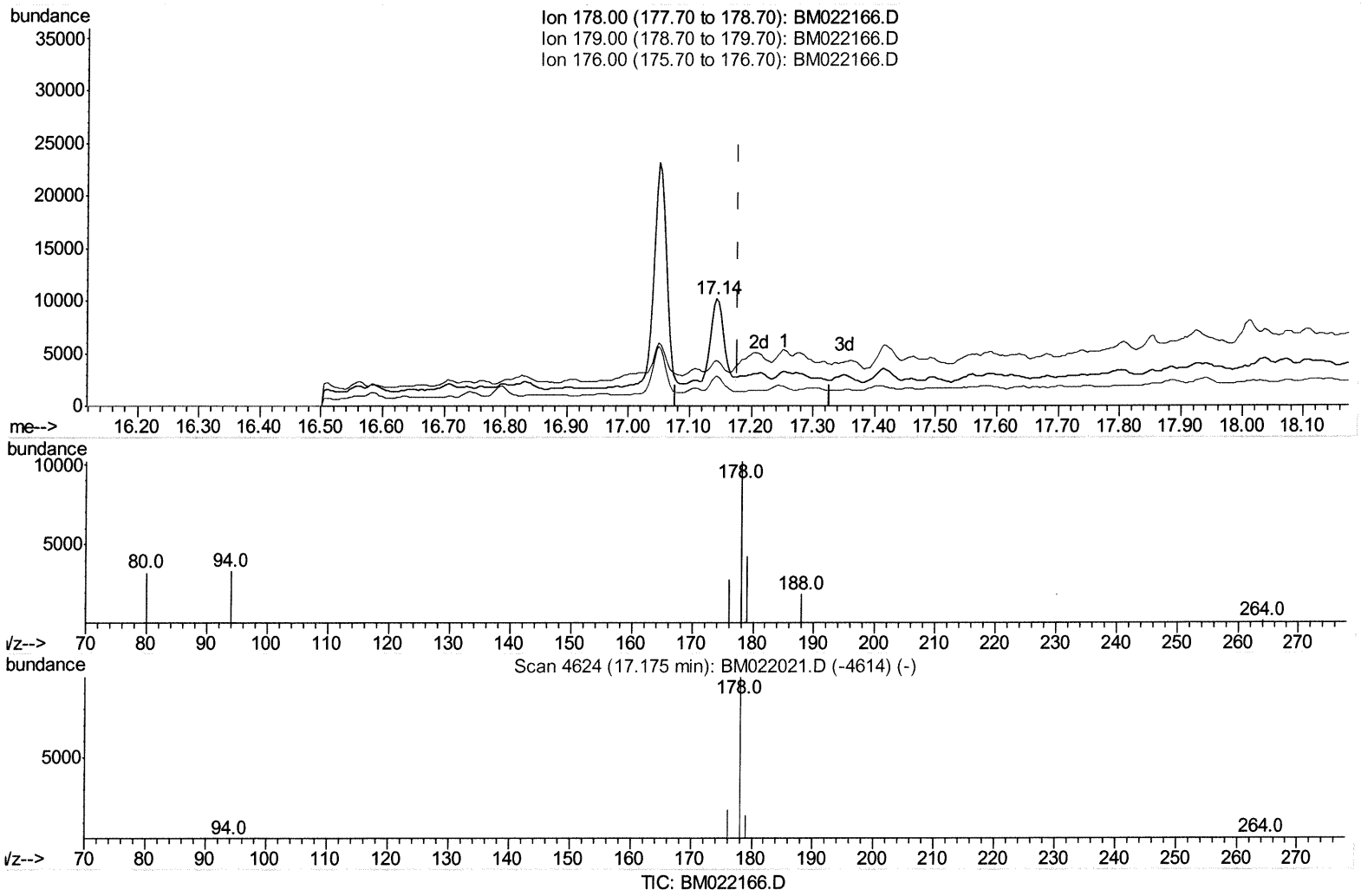
Ion	Exp%	Act%
178.00	100	100
179.00	19.40	162.35#
176.00	20.80	53.96#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(13) Anthracene

17.143min (-0.035) 1.06ng/ul m JU 08/20/19

response 11735

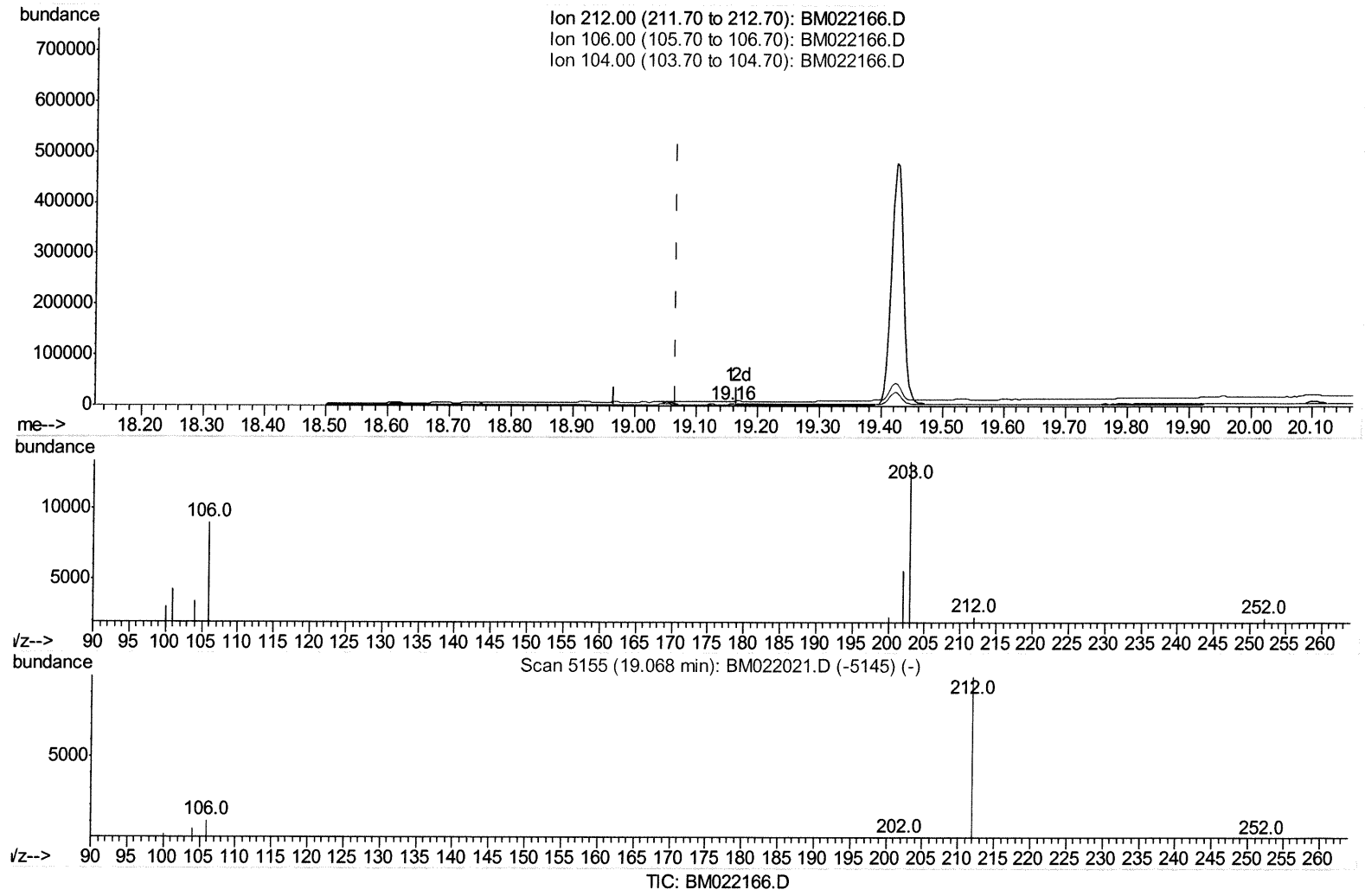
Ion	Exp%	Act%
178.00	100	100
179.00	19.40	41.97#
176.00	20.80	27.51#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



TIC: BM022166.D

(14) Fluoranthene-d10 (SURR)

19.156min (+0.088) 0.03ng/ul

response 468

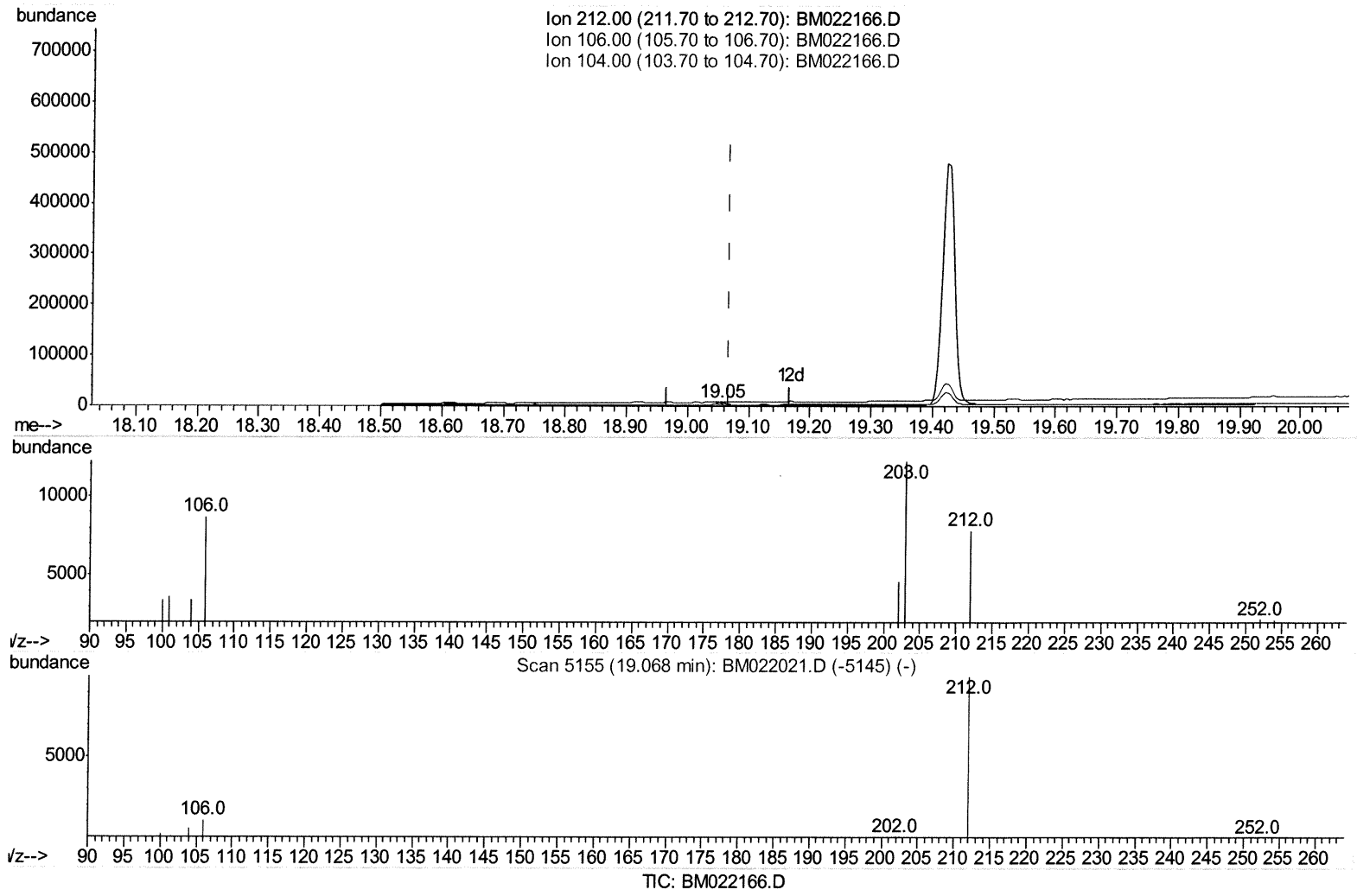
Ion	Exp%	Act%
212.00	100	100
106.00	9.90	0.00#
104.00	6.00	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



TIC: BM022166.D

(14) Fluoranthene-d10 (SURR)

19.053min (-0.015) 0.50ng/ul m JG 8/20/19

response 7575

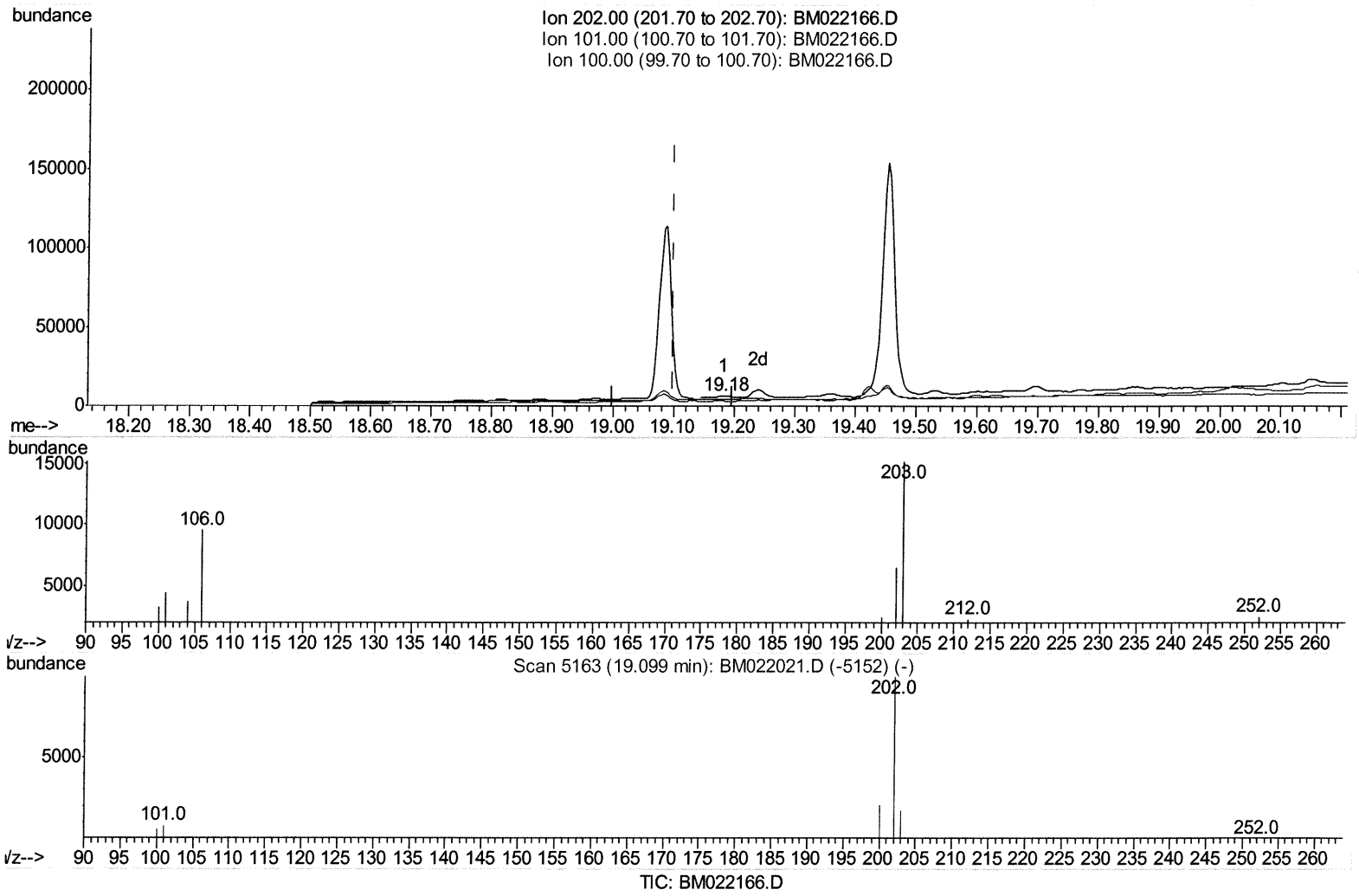
Ion	Exp%	Act%
212.00	100	100
106.00	9.90	0.00#
104.00	6.00	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(15) Fluoranthene (C)

19.182min (+0.084) 0.23ng/ul

response 4063

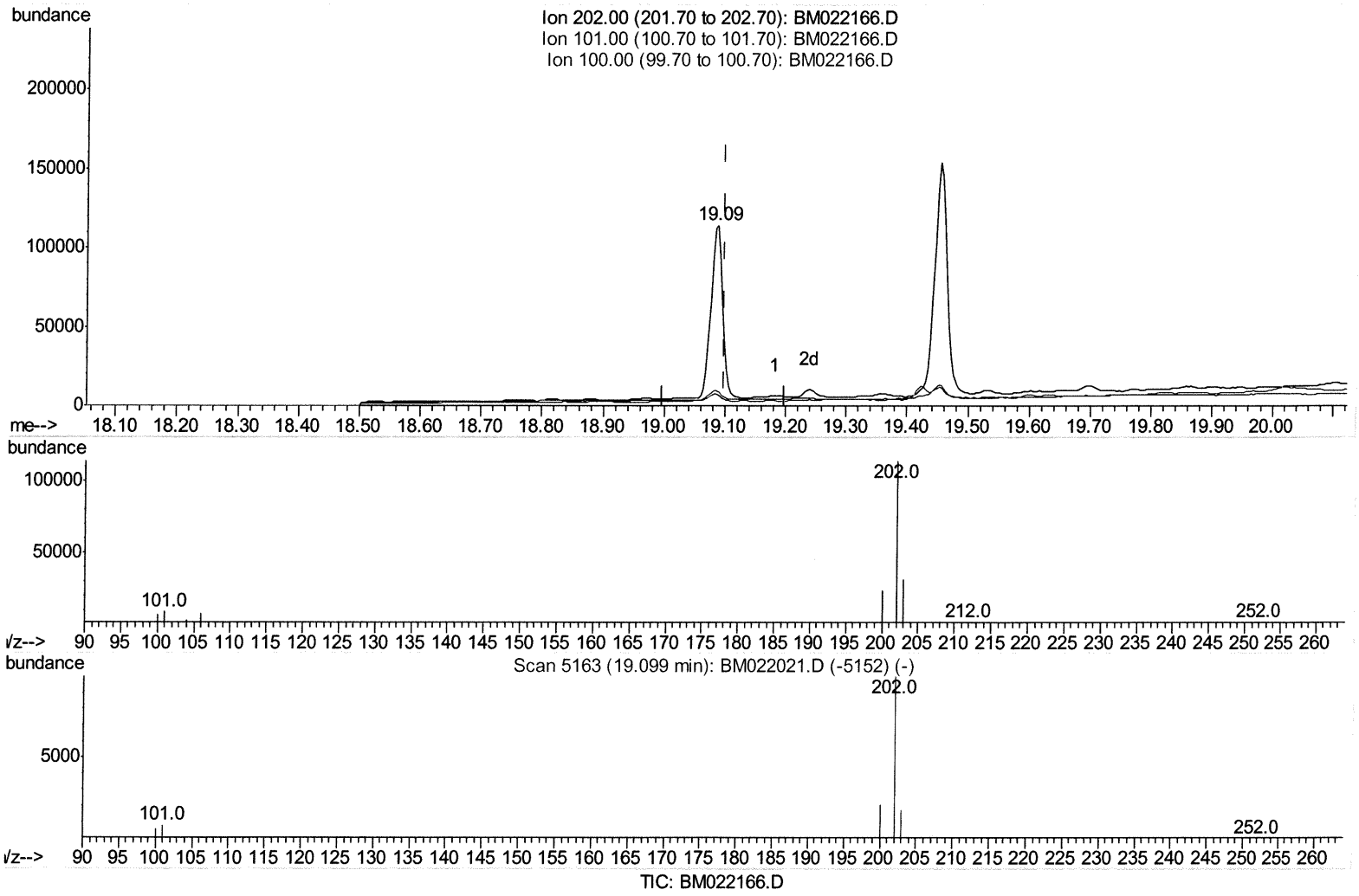
Ion	Exp%	Act%
202.00	100	100
101.00	10.20	68.64#
100.00	8.10	49.58#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



TIC: BM022166.D

(15) Fluoranthene (C)

19.087min (-0.011) 8.53ng/ul m JU 08/20/19

response 148339

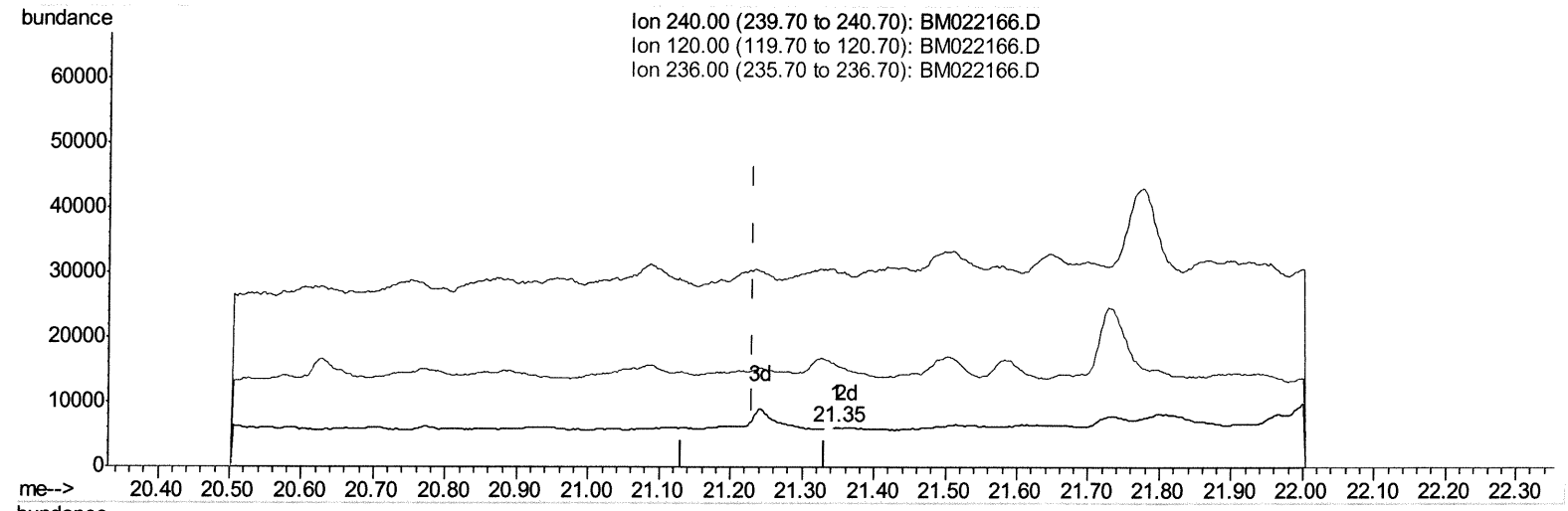
Ion	Exp%	Act%
202.00	100	100
101.00	10.20	8.14
100.00	8.10	6.31
0.00	0.00	0.00

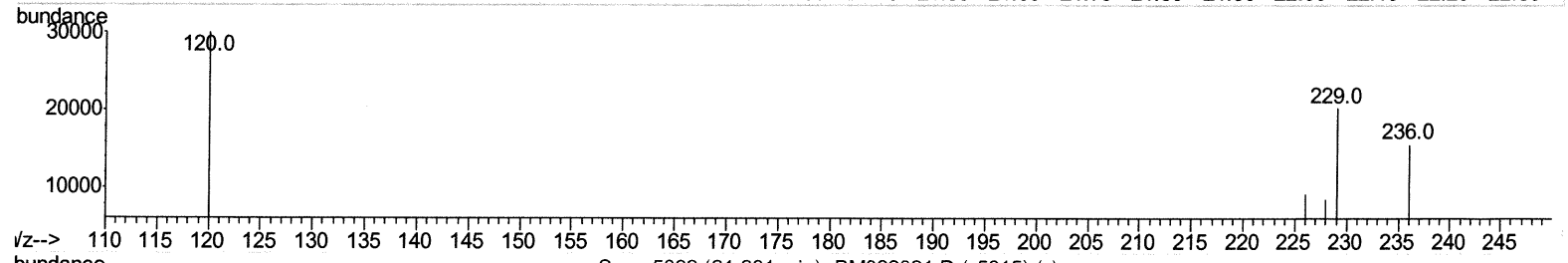
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

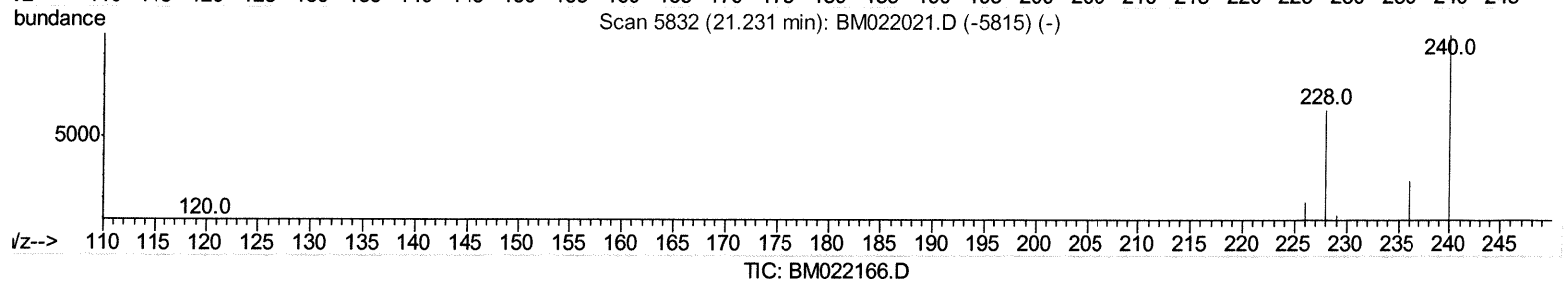
Quant Time: Aug 16 15:58:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM







TIC: BM022166.D

(16) Chrysene-d12 (I)

21.348min (+0.116) 0.40ng/ul

response 189

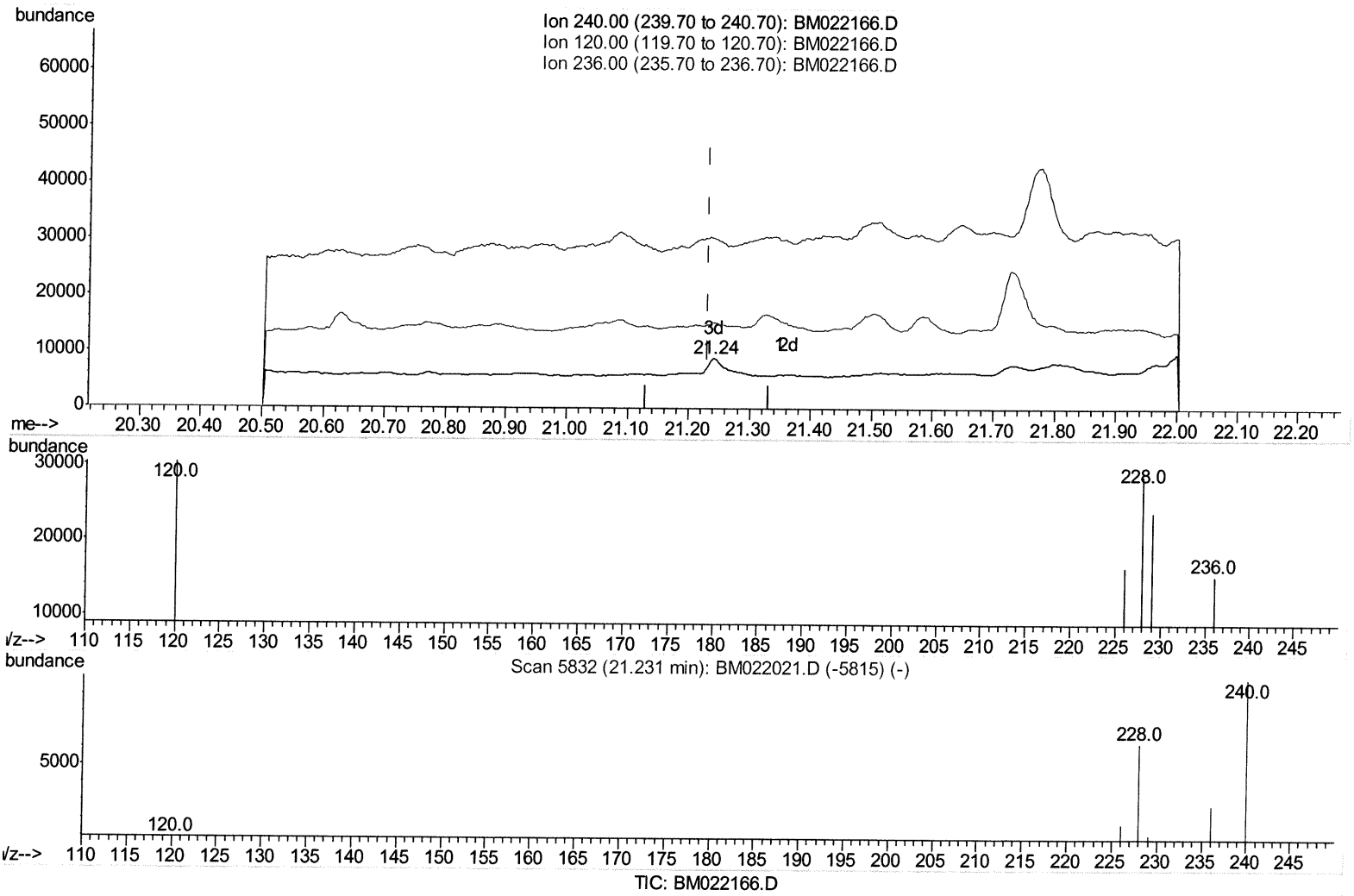
Ion	Exp%	Act%
240.00	100	100
120.00	16.20	491.30#
236.00	32.30	255.49#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:00:52 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



TIC: BM022166.D

(16) Chrysene-d12 (I)

21.241min (+0.010) 0.40ng/ul m JU 08/20/19

response 4755

Ion	Exp%	Act%
240.00	100	100
120.00	16.20	338.75#
236.00	32.30	172.08#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:01:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
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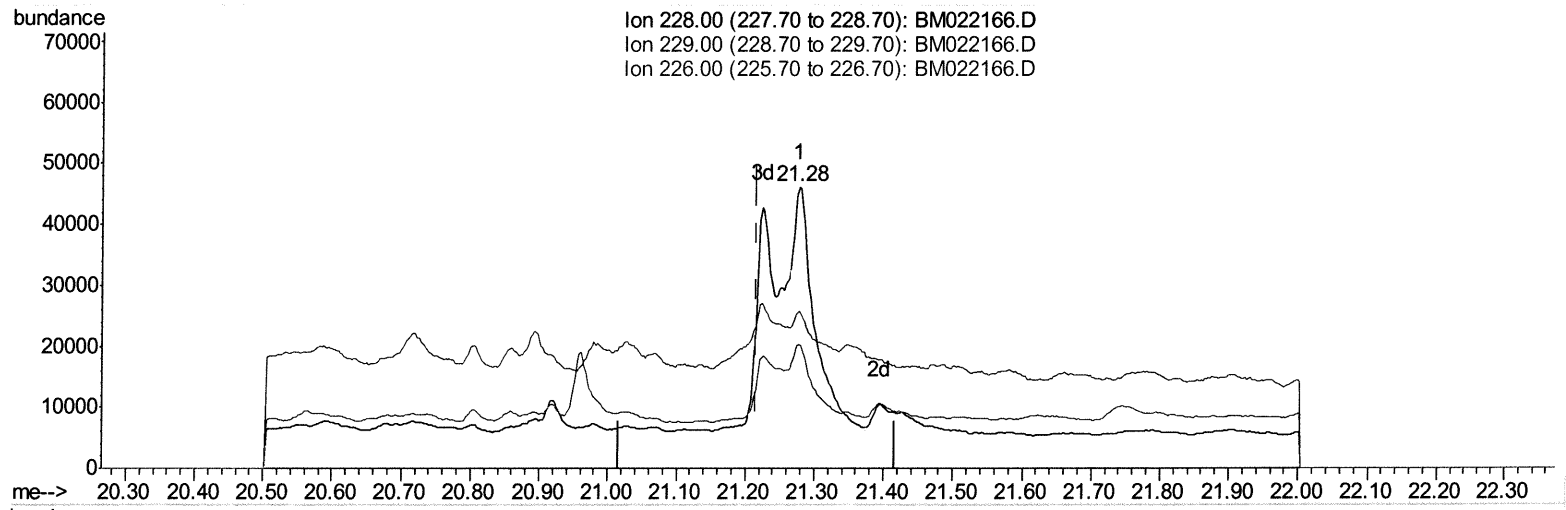
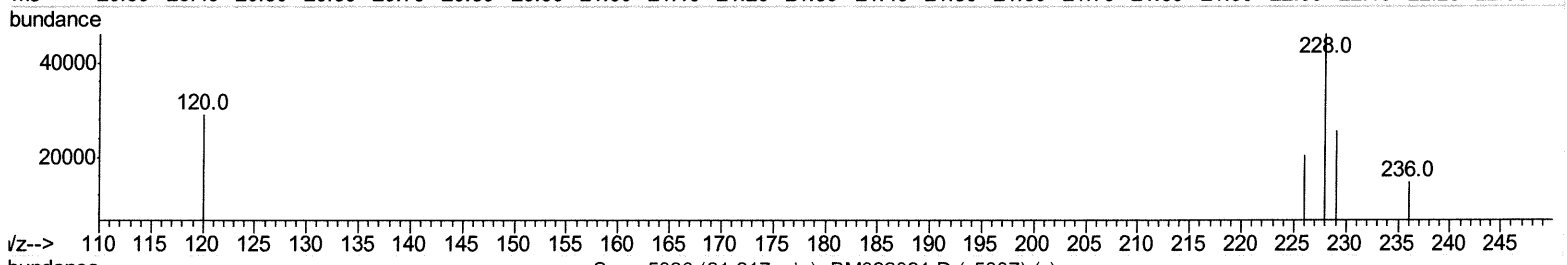
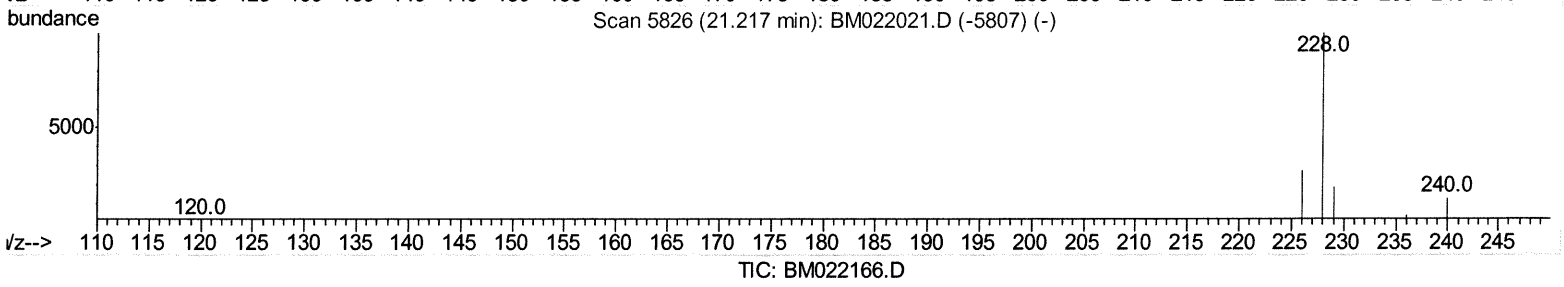






TIC: BM022166.D

(18) Benzo(a)anthracene

21.277min (+0.061) 5.03ng/ul

response 85544

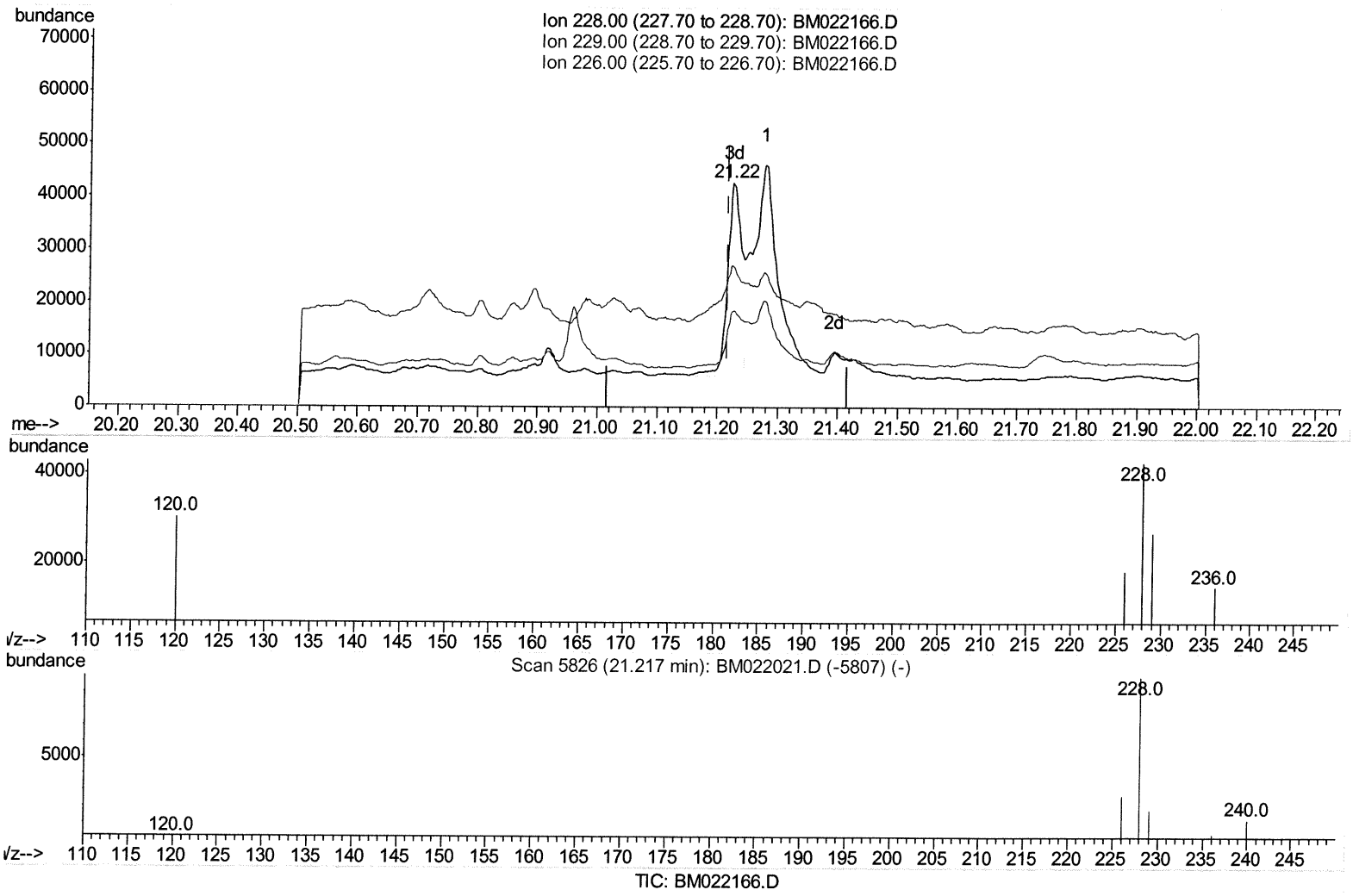
Ion	Exp%	Act%
228.00	100	100
229.00	21.50	55.73#
226.00	28.30	44.08#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:01:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



TIC: BM022166.D

(18) Benzo(a)anthracene

21.224min (+0.007) 3.55ng/ul m JU 08/20/19

response 60408

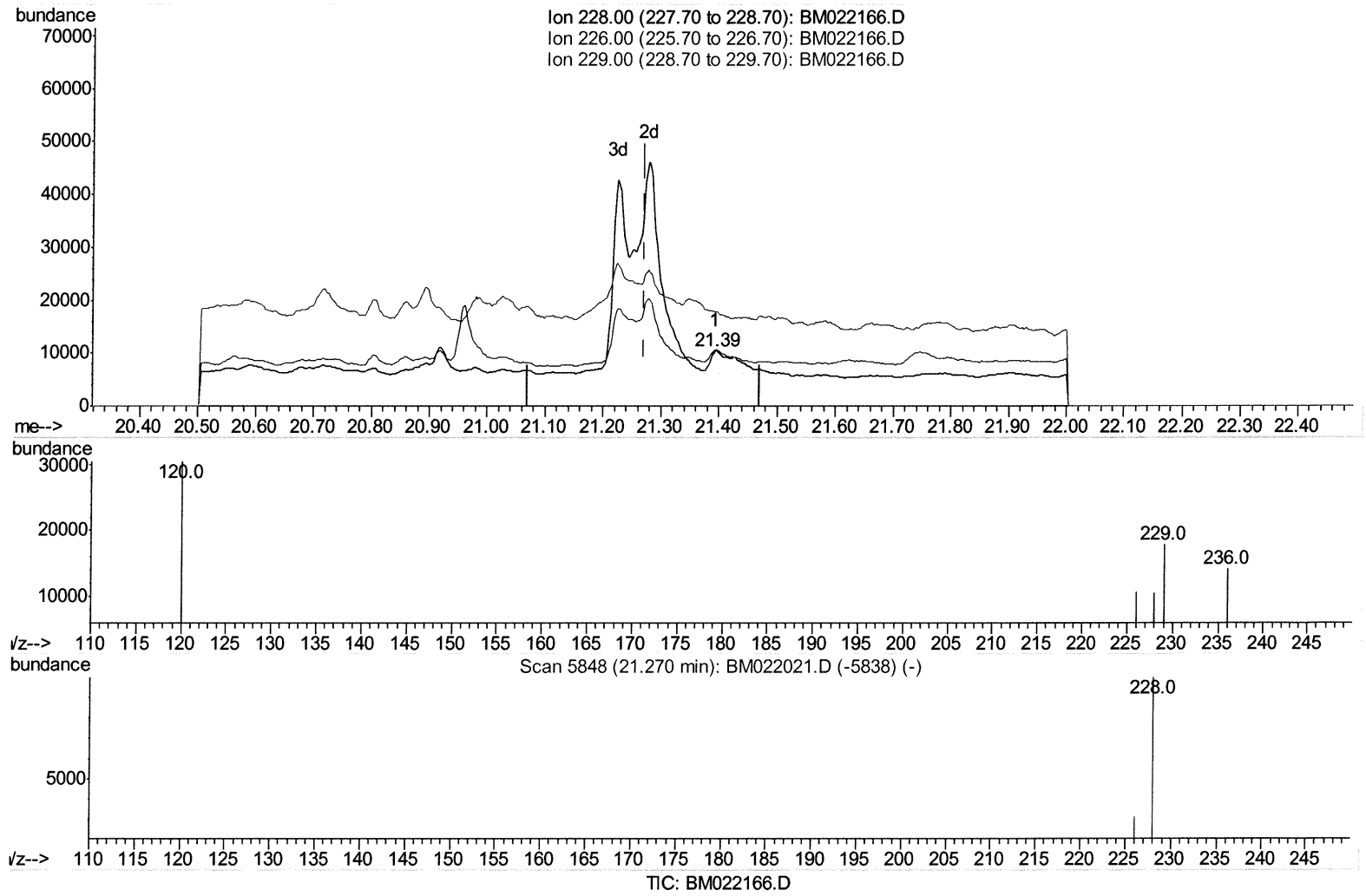
Ion	Exp%	Act%
228.00	100	100
229.00	21.50	63.02#
226.00	28.30	42.59#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:01:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(19) Chrysene

21.393min (+0.123) 0.65ng/ul

response 14188

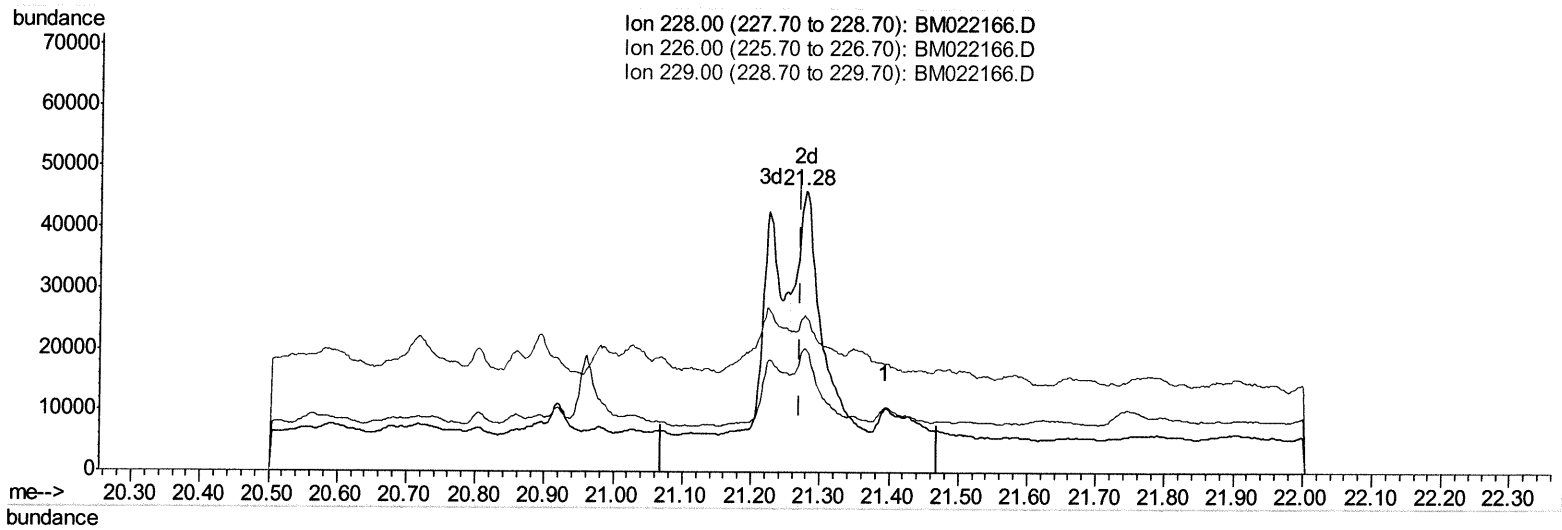
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	101.24#
229.00	20.80	170.57#
0.00	0.00	0.00

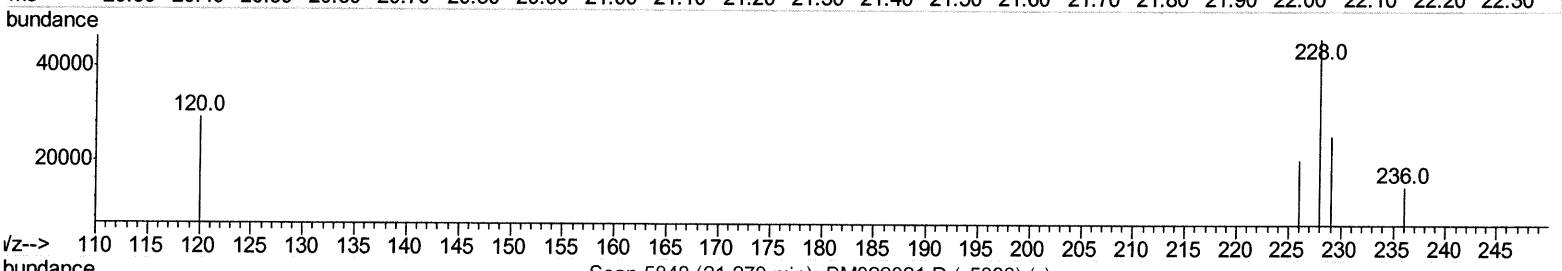
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:01:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

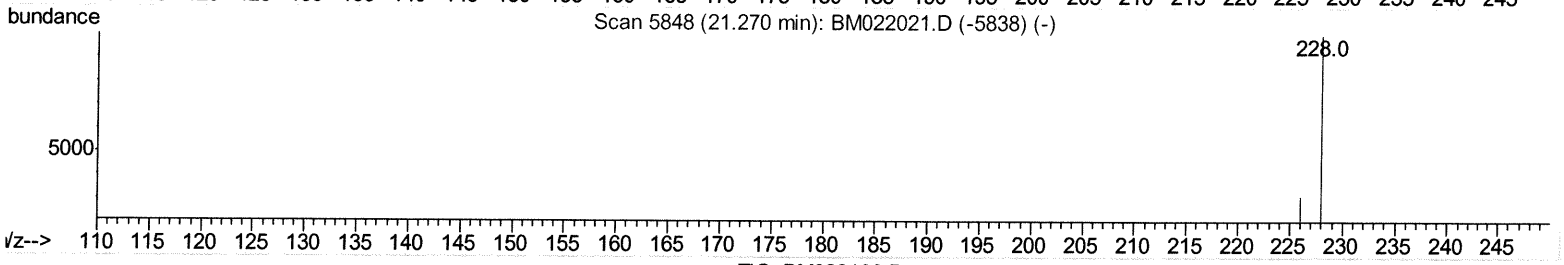
Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM





Scan 5848 (21.270 min): BM022021.D (-5838) (-)



TIC: BM022166.D

(19) Chrysene

21.277min (+0.007) 4.49ng/ul m JU 08/20/19

response 98238

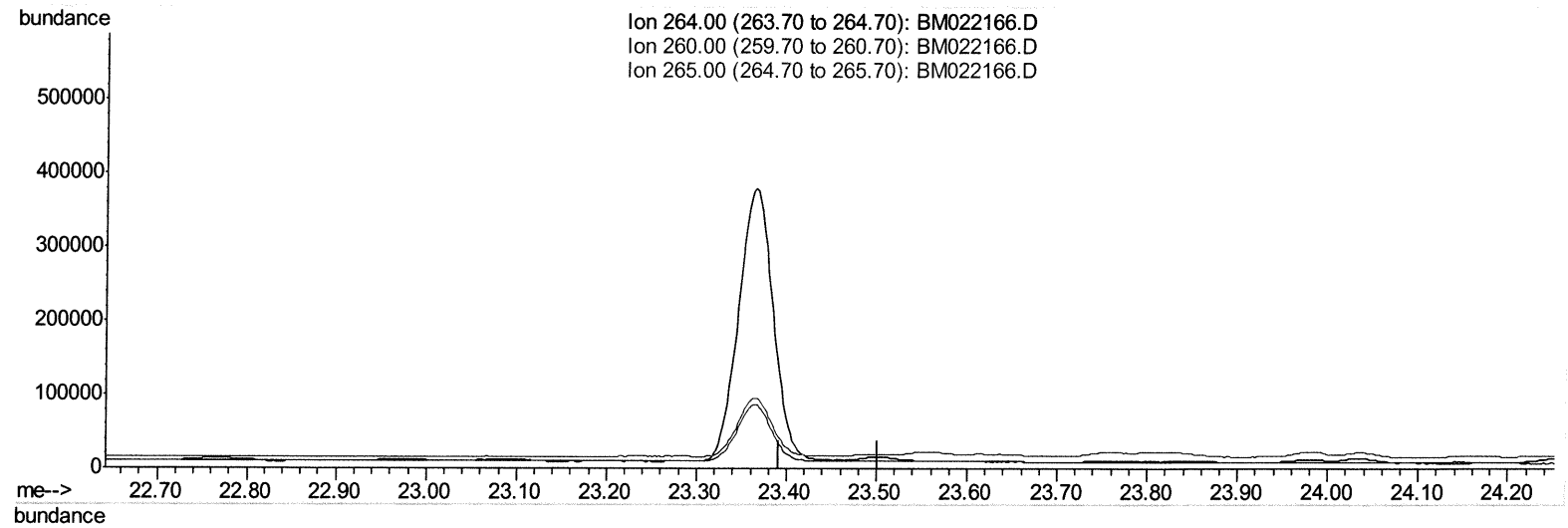
Ion	Exp%	Act%
228.00	100	100
226.00	31.10	44.08#
229.00	20.80	55.73#
0.00	0.00	0.00

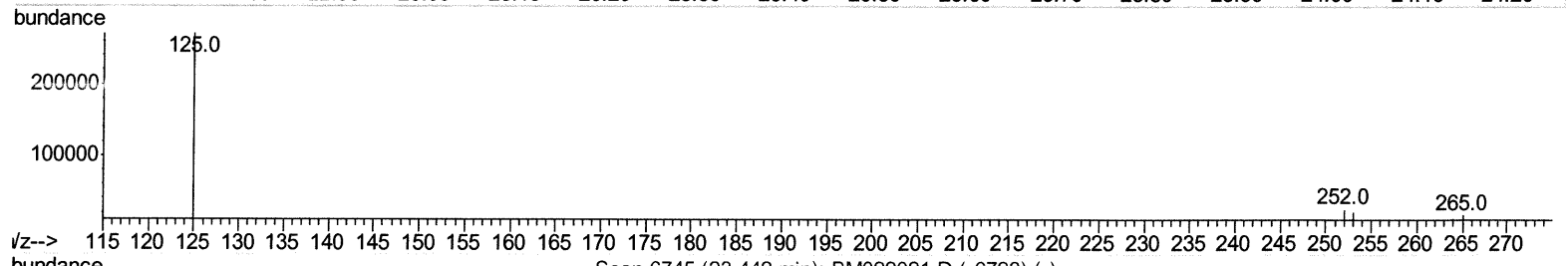
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

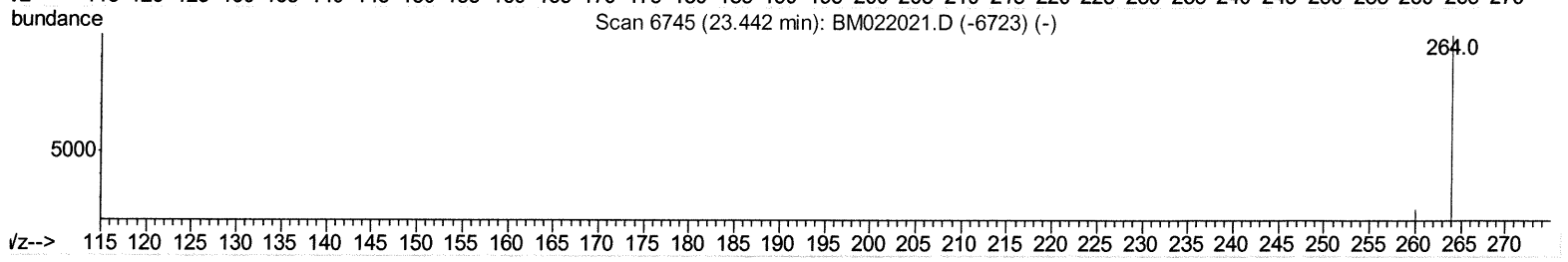
Quant Time: Aug 16 16:01:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM







TIC: BM022166.D

(20) Perylene-d12 (I)

23.442min (-23.442) 0.00ng/ul

response 0

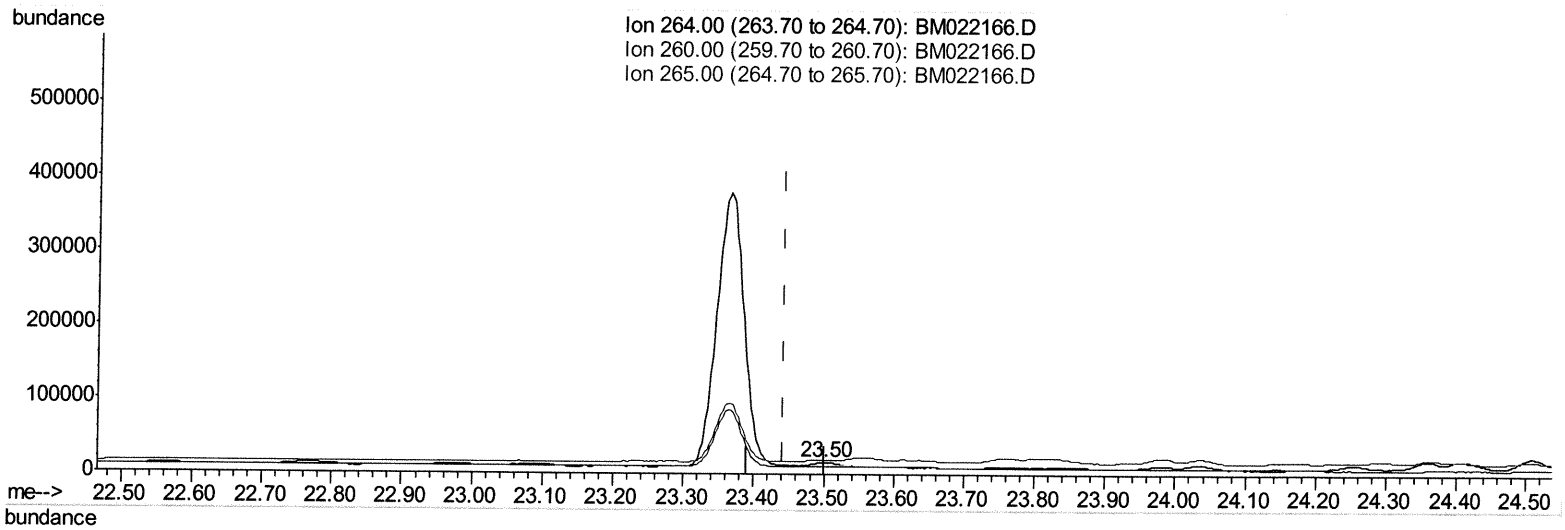
Ion	Exp%	Act%
264.00	100	0.00
260.00	27.50	0.00#
265.00	117.00	0.00#
0.00	0.00	0.00

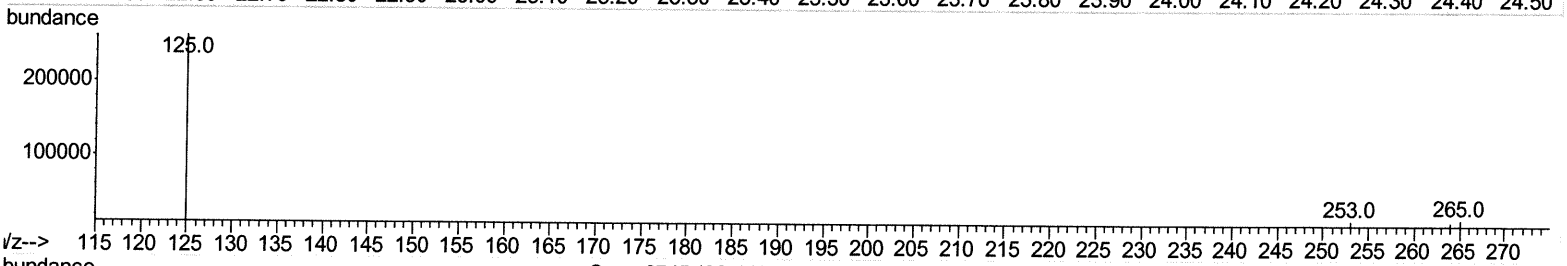
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

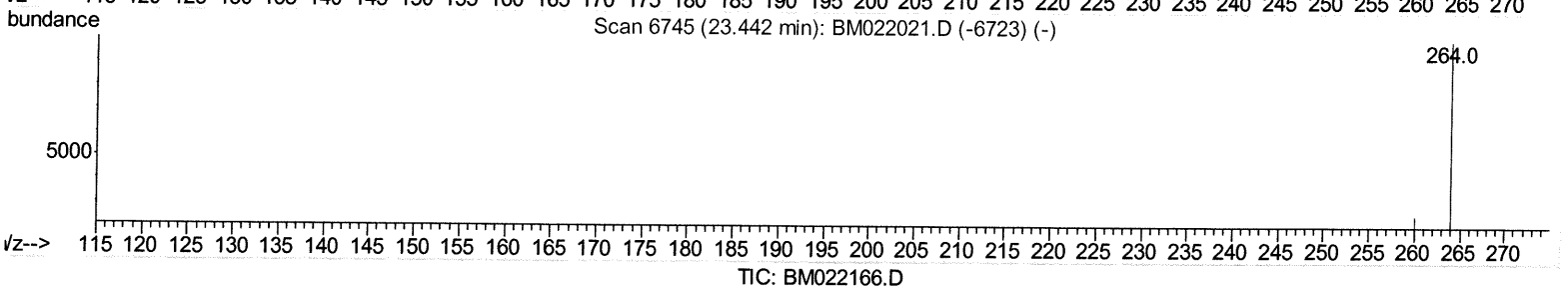
Quant Time: Aug 16 16:01:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM







(20) Perylene-d12 (I)

23.501min (+0.059) 0.40ng/ul m JU 08/20/19

response 10464

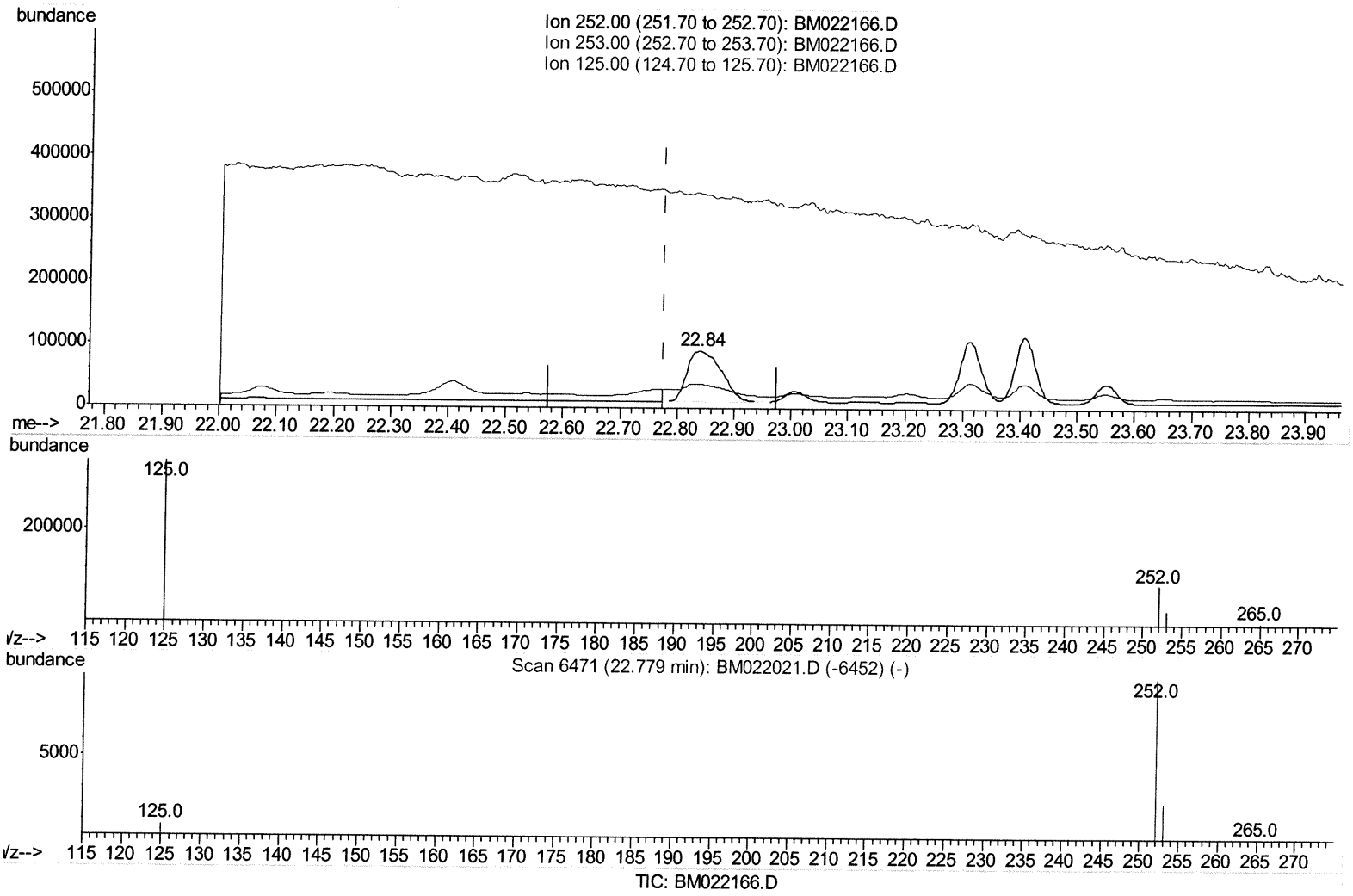
Ion	Exp%	Act%
264.00	100	100
260.00	27.50	69.95#
265.00	117.00	118.45
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:02:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(21) Benzo(b)fluoranthene

22.839min (+0.063) 9.61ng/ul

response 339189

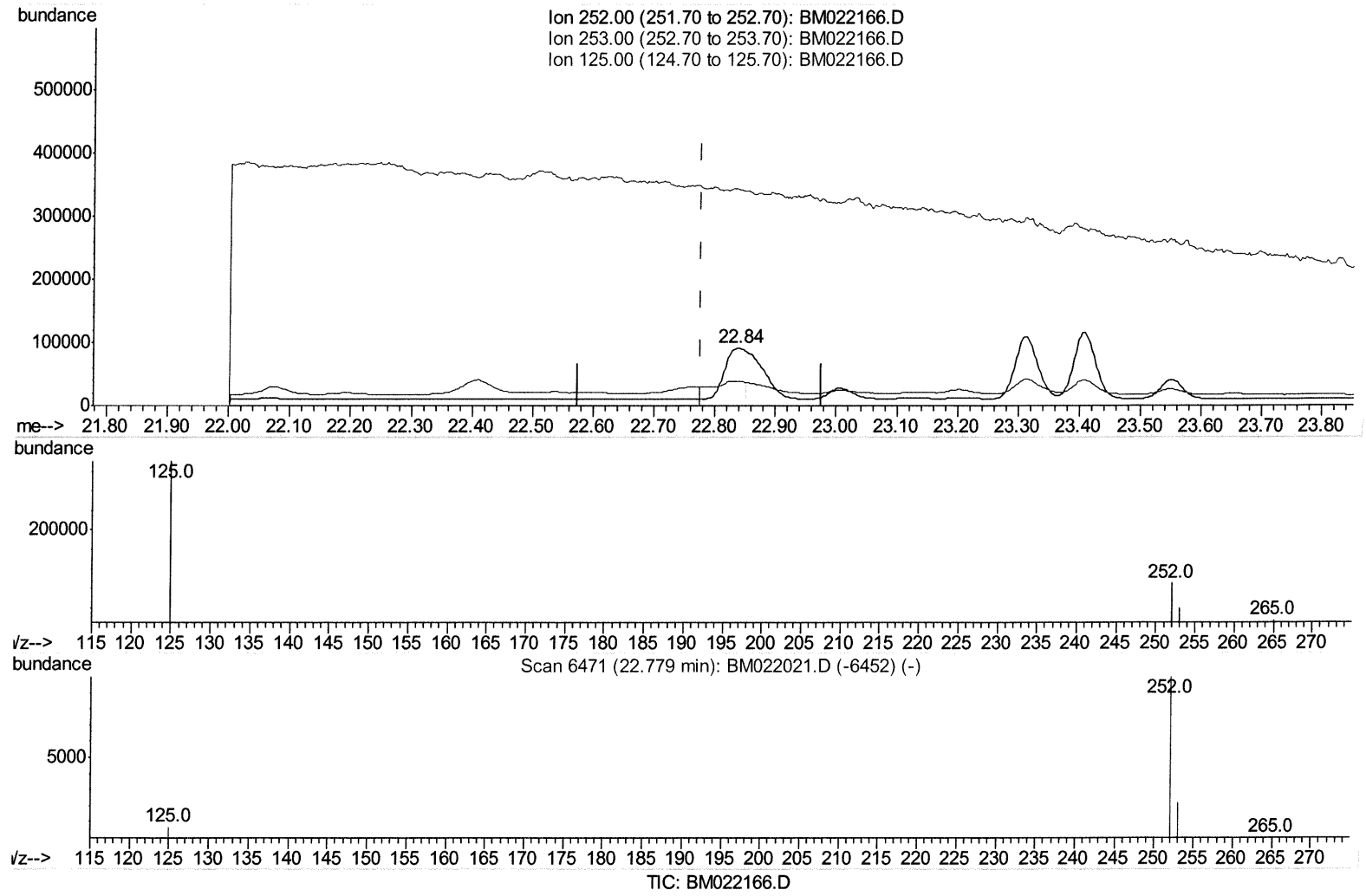
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	43.03
125.00	15.50	374.95#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:02:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(21) Benzo(b)fluoranthene

22.839min (+0.063) 5.47ng/ul m JU 08/20/19

response 193162

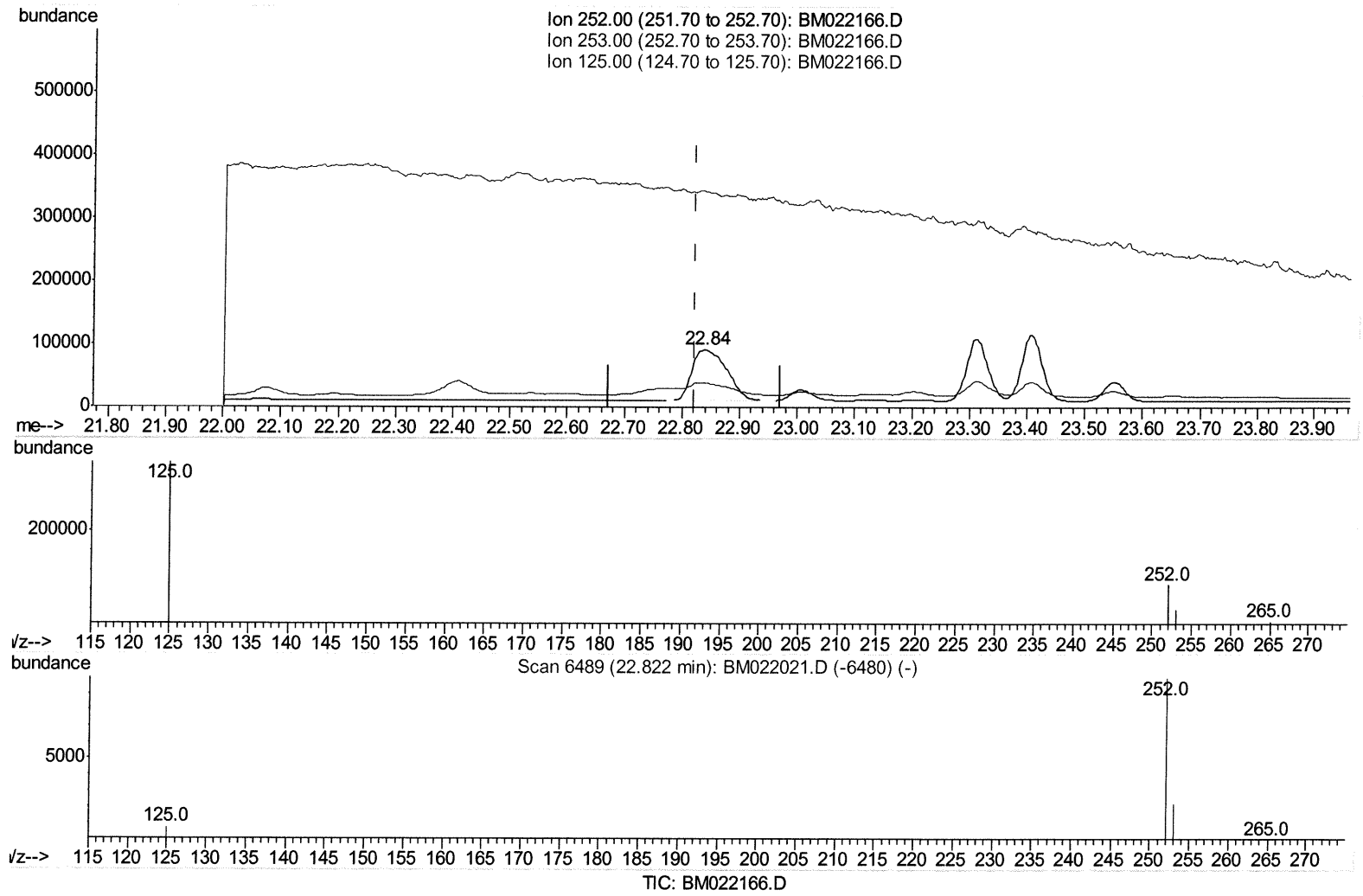
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	43.03
125.00	15.50	374.95#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:02:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



TIC: BM022166.D

(22) Benzo(k)fluoranthene

22.839min (+0.017) 8.49ng/ul

response 339189

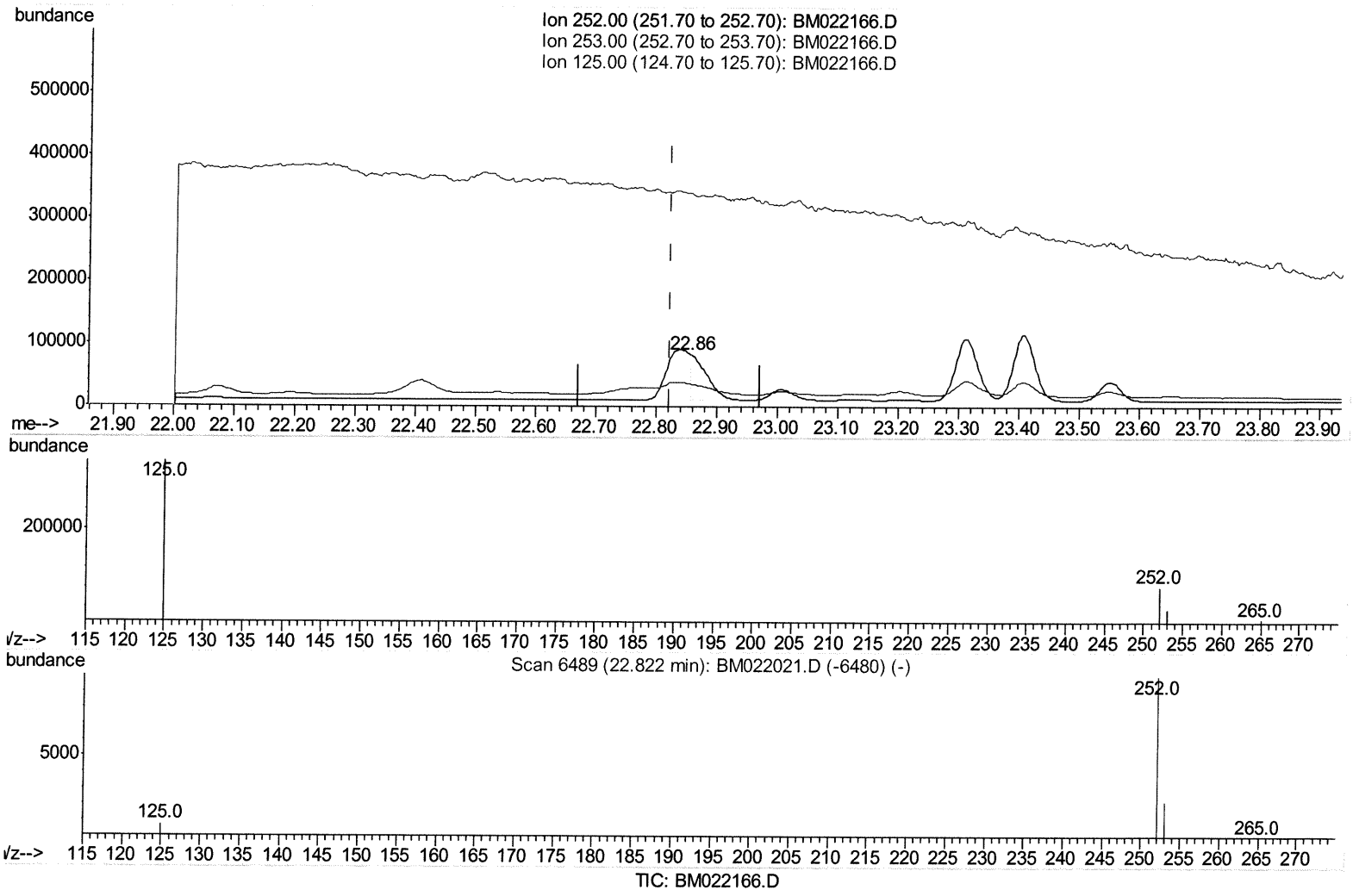
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	43.03#
125.00	15.20	374.95#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:02:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(22) Benzo(k)fluoranthene

22.856min (+0.034) 3.27ng/ul m JU 08/20/19

response 130760

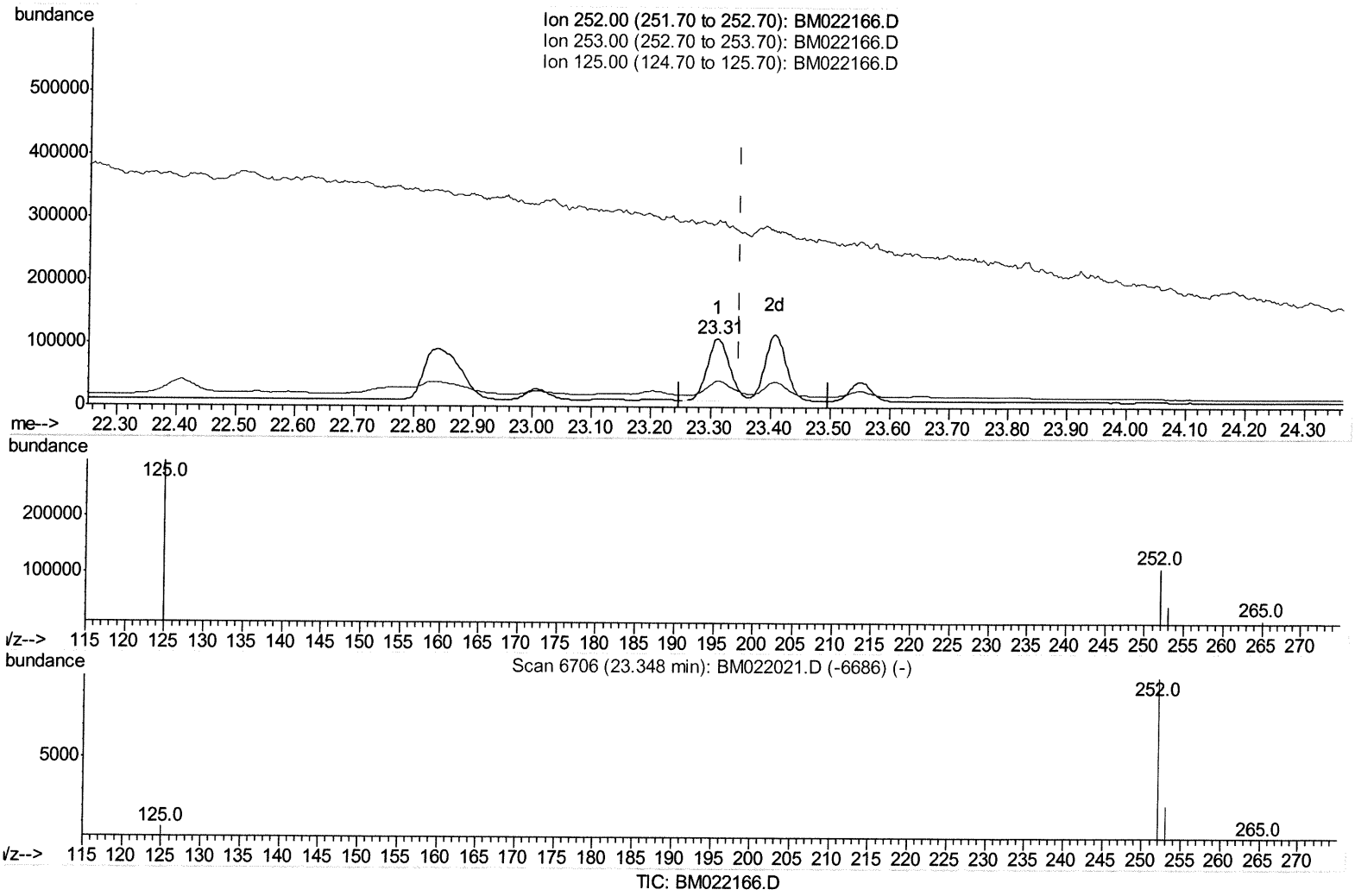
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	43.43#
125.00	15.20	407.96#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:02:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(23) Benzo(a)pyrene (C)

23.312min (-0.036) 7.14ng/ul

response 256216

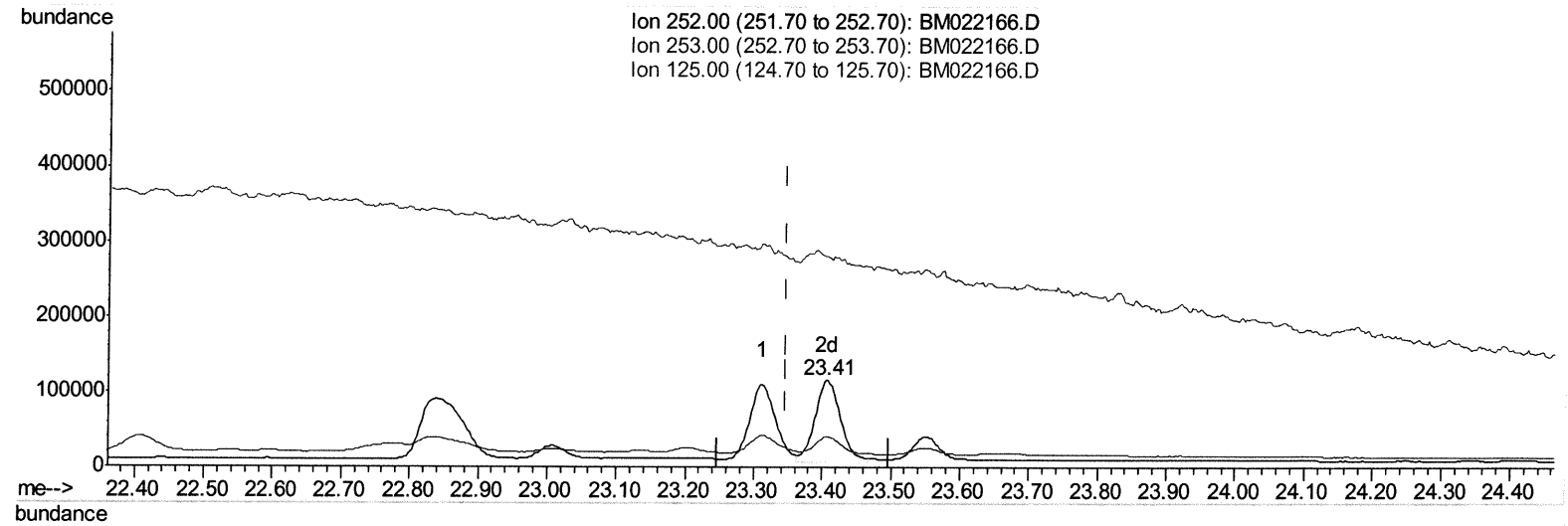
Ion	Exp%	Act%
252.00	100	100
253.00	39.60	38.42
125.00	18.20	272.81#
0.00	0.00	0.00

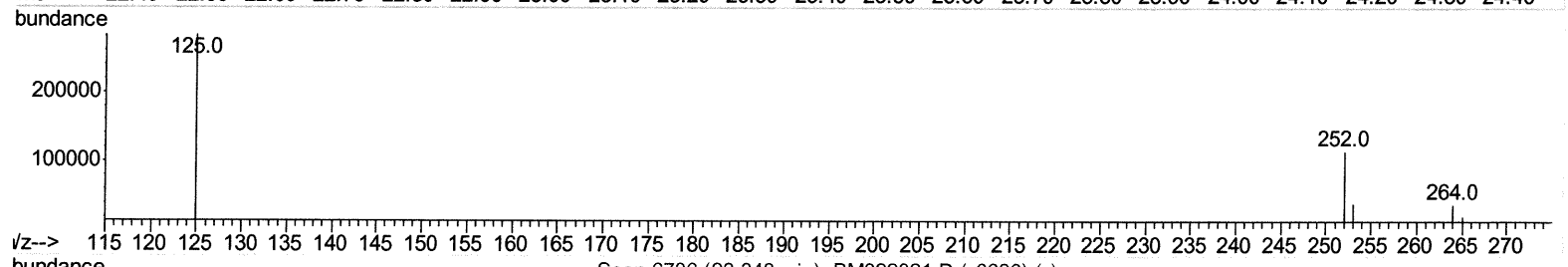
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

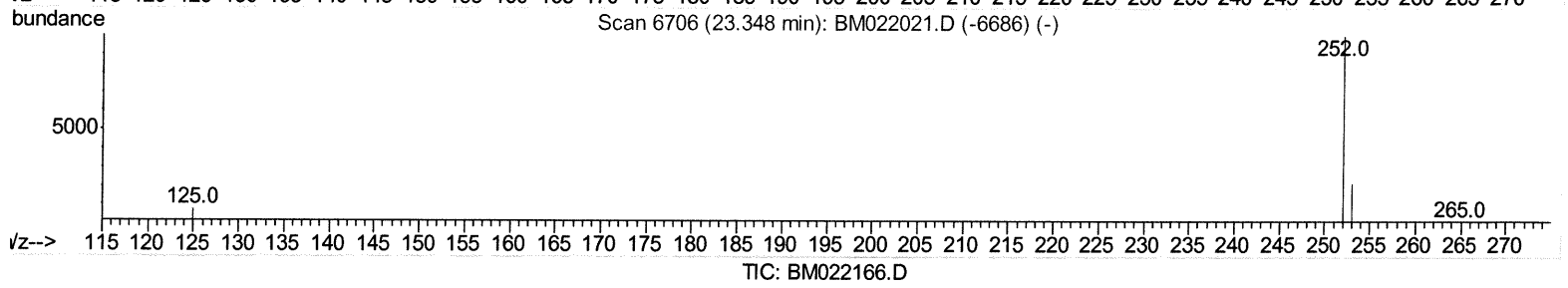
Quant Time: Aug 16 16:02:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM







(23) Benzo(a)pyrene (C)

23.406min (+0.058) 7.83ng/ul m JU 08/20/19

response 280876

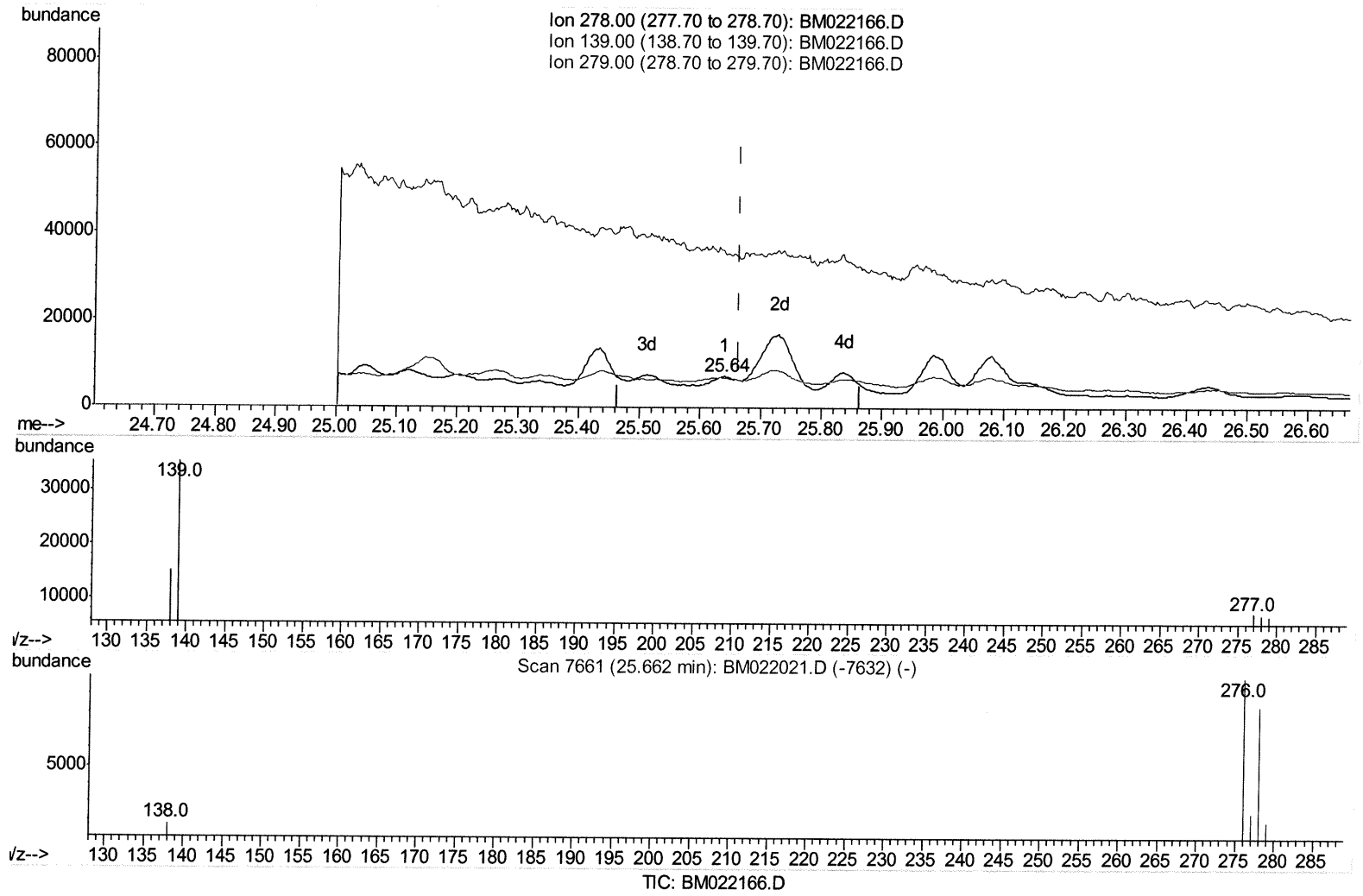
Ion	Exp%	Act%
252.00	100	100
253.00	39.60	35.30
125.00	18.20	242.59#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:02:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



TIC: BM022166.D

(25) Dibenzo(a,h)anthracene

25.640min (-0.024) 0.15ng/ul

response 5043

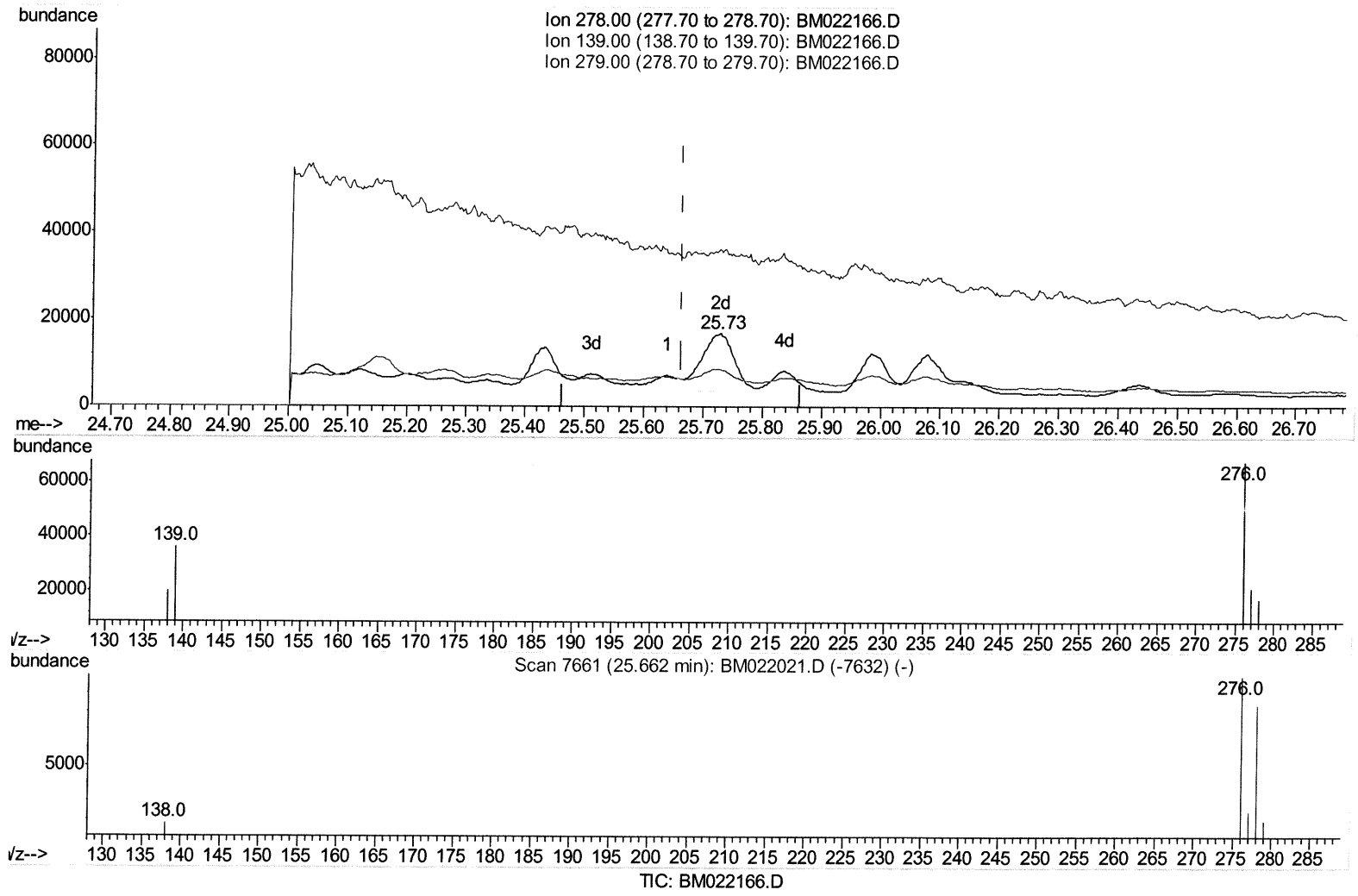
Ion	Exp%	Act%
278.00	100	100
139.00	17.70	488.26#
279.00	35.40	95.50#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 16 16:02:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM



(25) Dibenzo(a,h)anthracene

25.730min (+0.065) 1.47ng/ul m JU 8/20/19

response 51032

Ion	Exp%	Act%
278.00	100	100
139.00	17.70	212.76#
279.00	35.40	51.17#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022166.D
Acq On : 16 Aug 2019 04:55
Operator : HP/JU
Sample : K4242-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:28 AM

Quant Time: Aug 16 16:04:47 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	941	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.37	136	3470	0.40	ng/ul	-0.04
6) Acenaphthene-d10	14.24	164	2242	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.01	188	4463m	0.40	ng/ul	-0.02
16) Chrysene-d12	21.24	240	4755m	0.40	ng/ul	0.00
20) Perylene-d12	23.50	264	10464m	0.40	ng/ul	0.06
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.96	152	2067	0.36	ng/ul	-0.04
14) Fluoranthene-d10	19.05	212	7575m	0.50	ng/ul	-0.02
Target Compounds						Qvalue
3) Naphthalene	10.42	128	20230	2.064	ng/ul#	74
5) 2-Methylnaphthalene	12.04	142	10839	1.660	ng/ul	99
7) Acenaphthylene	13.97	152	9944	0.951	ng/ul#	80
8) Acenaphthene	14.31	153	1727	0.202	ng/ul#	86
9) Fluorene	15.31	166	2111	0.222	ng/ul#	67
12) Phenanthrene	17.05	178	29993m	2.310	ng/ul	
13) Anthracene	17.14	178	11735m	1.059	ng/ul	
15) Fluoranthene	19.09	202	148339m	8.528	ng/ul	
17) Pyrene	19.45	202	219847	11.251	ng/ul	95
18) Benzo(a)anthracene	21.22	228	60408m	3.552	ng/ul	
19) Chrysene	21.28	228	98238m	4.491	ng/ul	
21) Benzo(b)fluoranthene	22.84	252	193162m	5.474	ng/ul	
22) Benzo(k)fluoranthene	22.86	252	130760m	3.275	ng/ul	
23) Benzo(a)pyrene	23.41	252	280876m	7.827	ng/ul	
24) Indeno(1,2,3-cd)pyrene	25.73	276	183463	4.282	ng/ul#	80
25) Dibenzo(a,h)anthracene	25.73	278	51032m	1.474	ng/ul	
26) Benzo(g,h,i)perylene	26.42	276	177316	4.597	ng/ul#	89

JU 08/20/19
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JU 08/20/19
JU 08/20/19

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