Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:45:19 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
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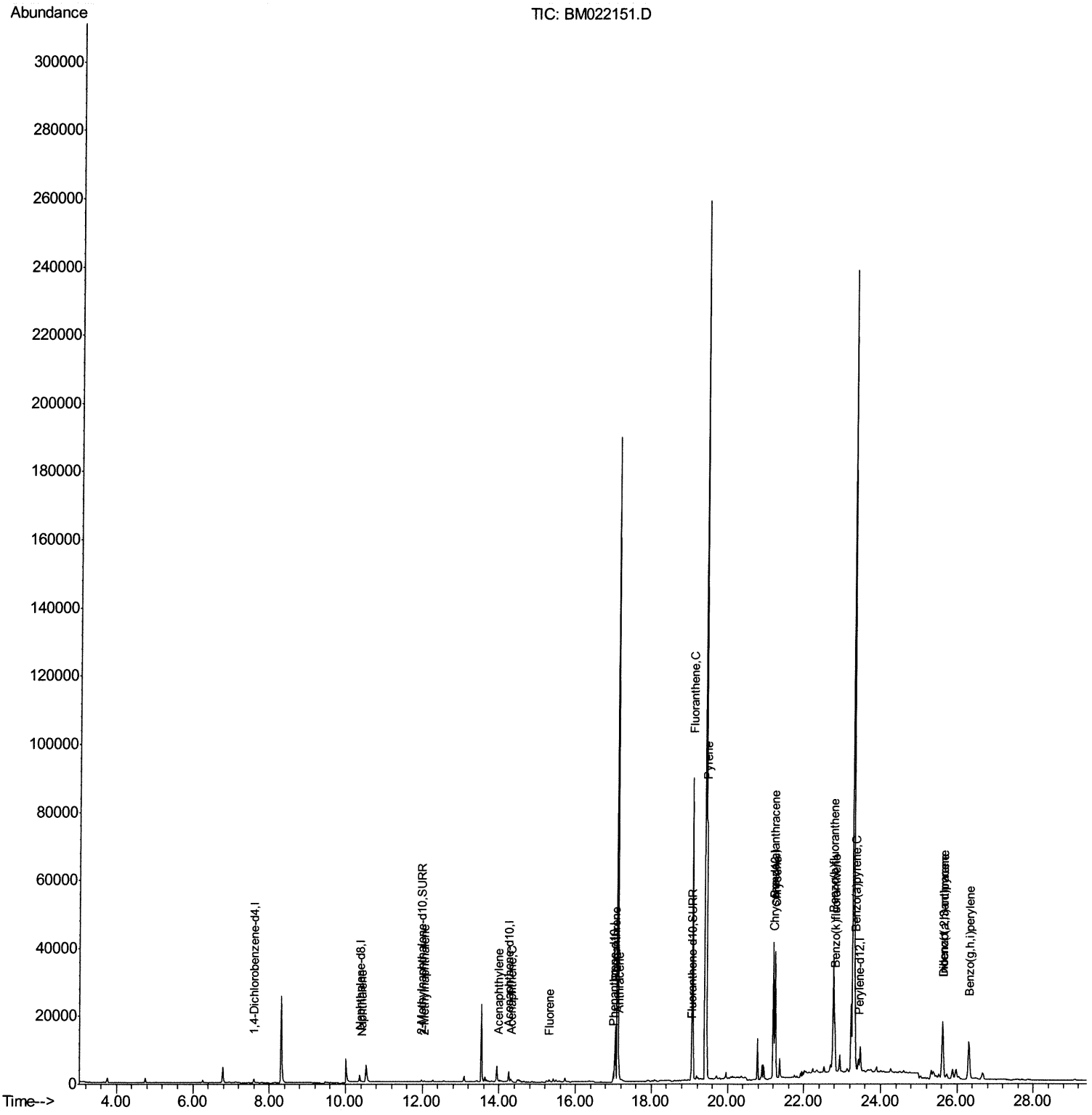

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:12:30 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
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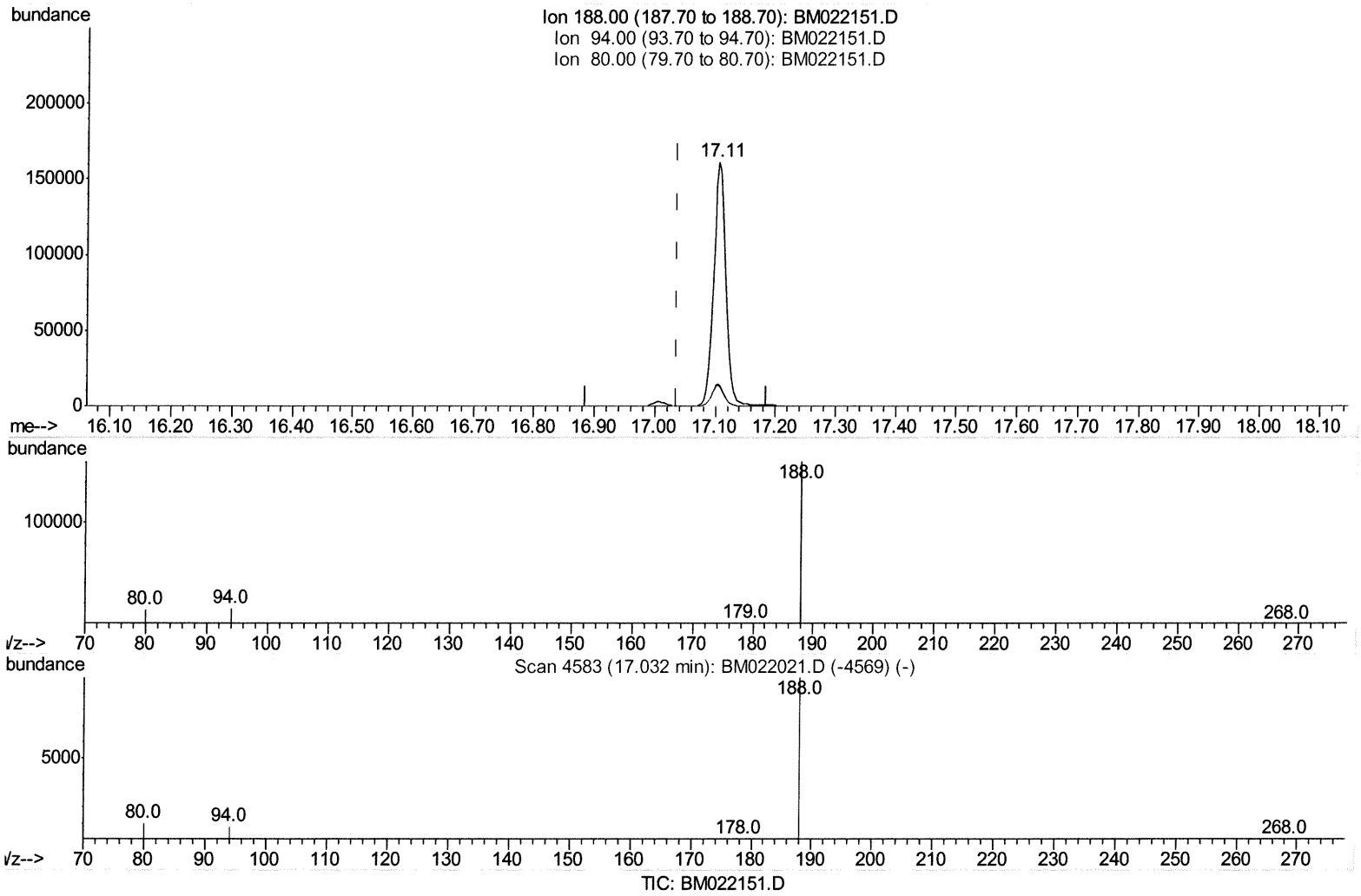


TIC: BM022151.D

(10) Phenanthrene-d10 (I)

17.105min (+0.069) 0.40ng/ul

response 227382

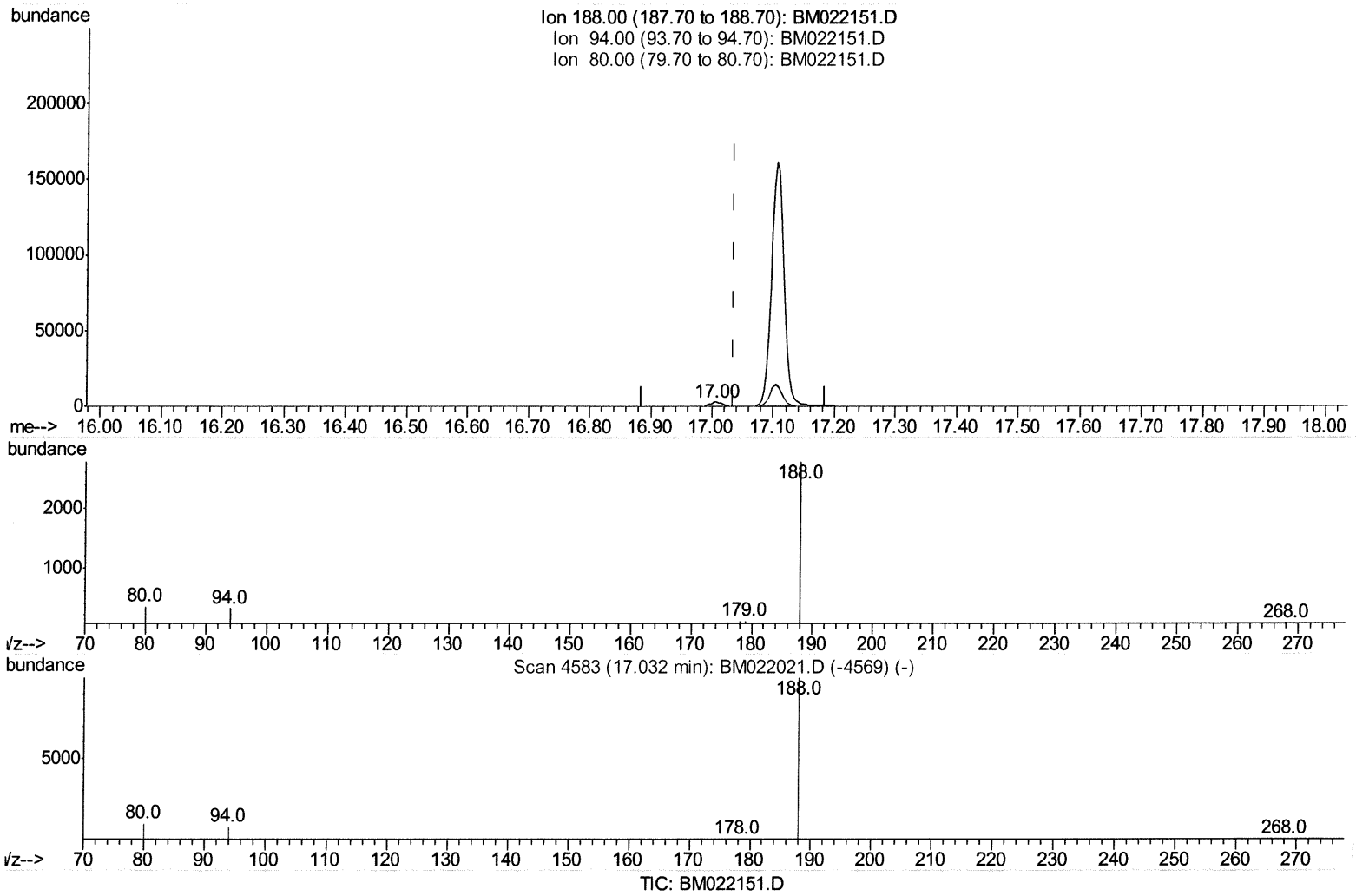
Ion	Exp%	Act%
188.00	100	100
94.00	10.40	9.00
80.00	11.40	8.48#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:12:30 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(10) Phenanthrene-d10 (I)

17.004min (-0.031) 0.40ng/ul m JU 08/20/19

response 4083

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	11.27
80.00	11.40	12.16
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:06 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
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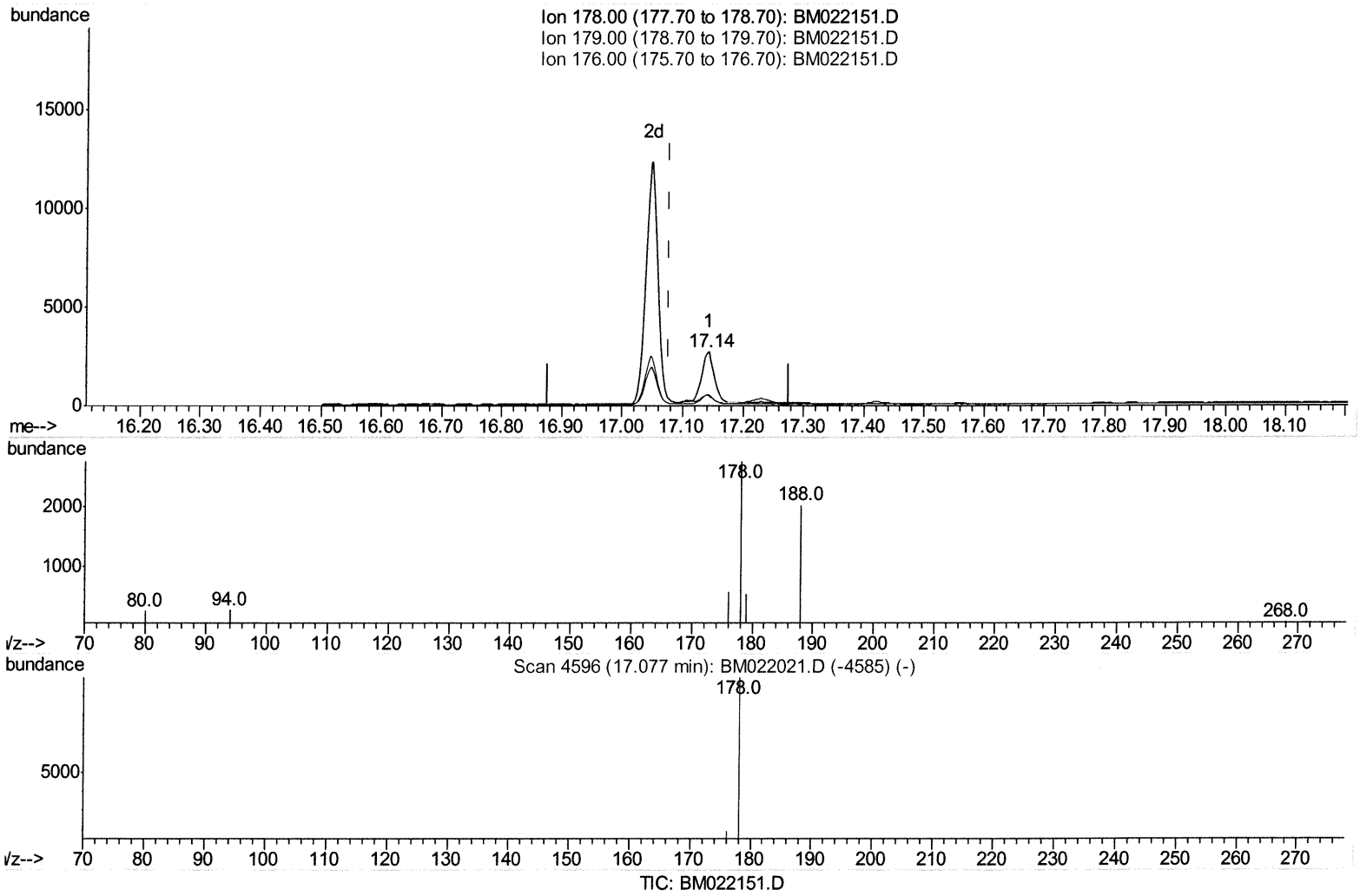

(12) Phenanthrene

17.143min (+0.066) 0.33ng/ul

response 3905

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	19.19
176.00	21.00	20.89
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:06 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
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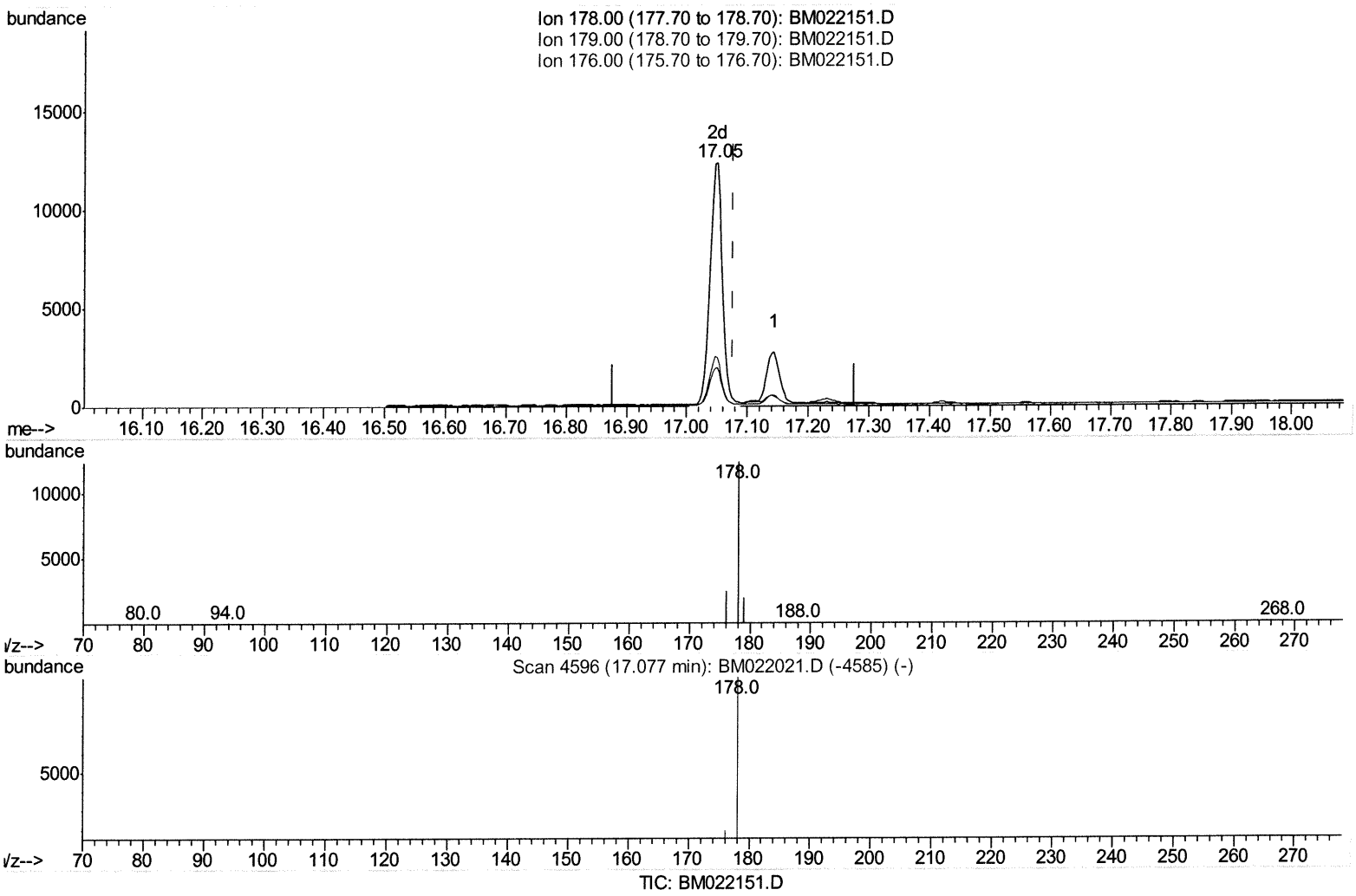

(12) Phenanthrene

17.050min (-0.028) 1.49ng/ul m JU 08/20/19

response 17702

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	16.00
176.00	21.00	19.88
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:06 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
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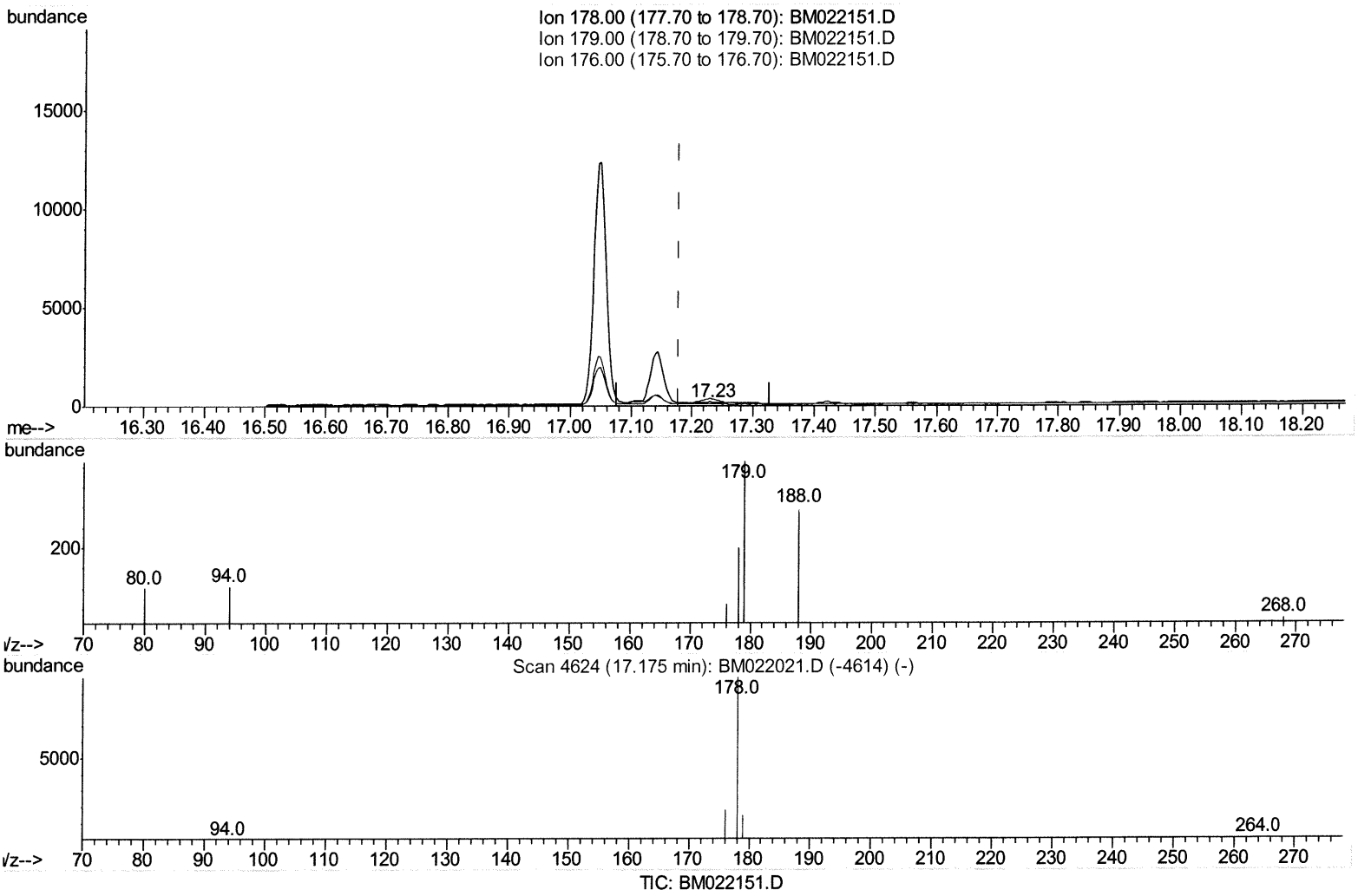


(13) Anthracene

17.230min (+0.052) 0.02ng/ul

response 192

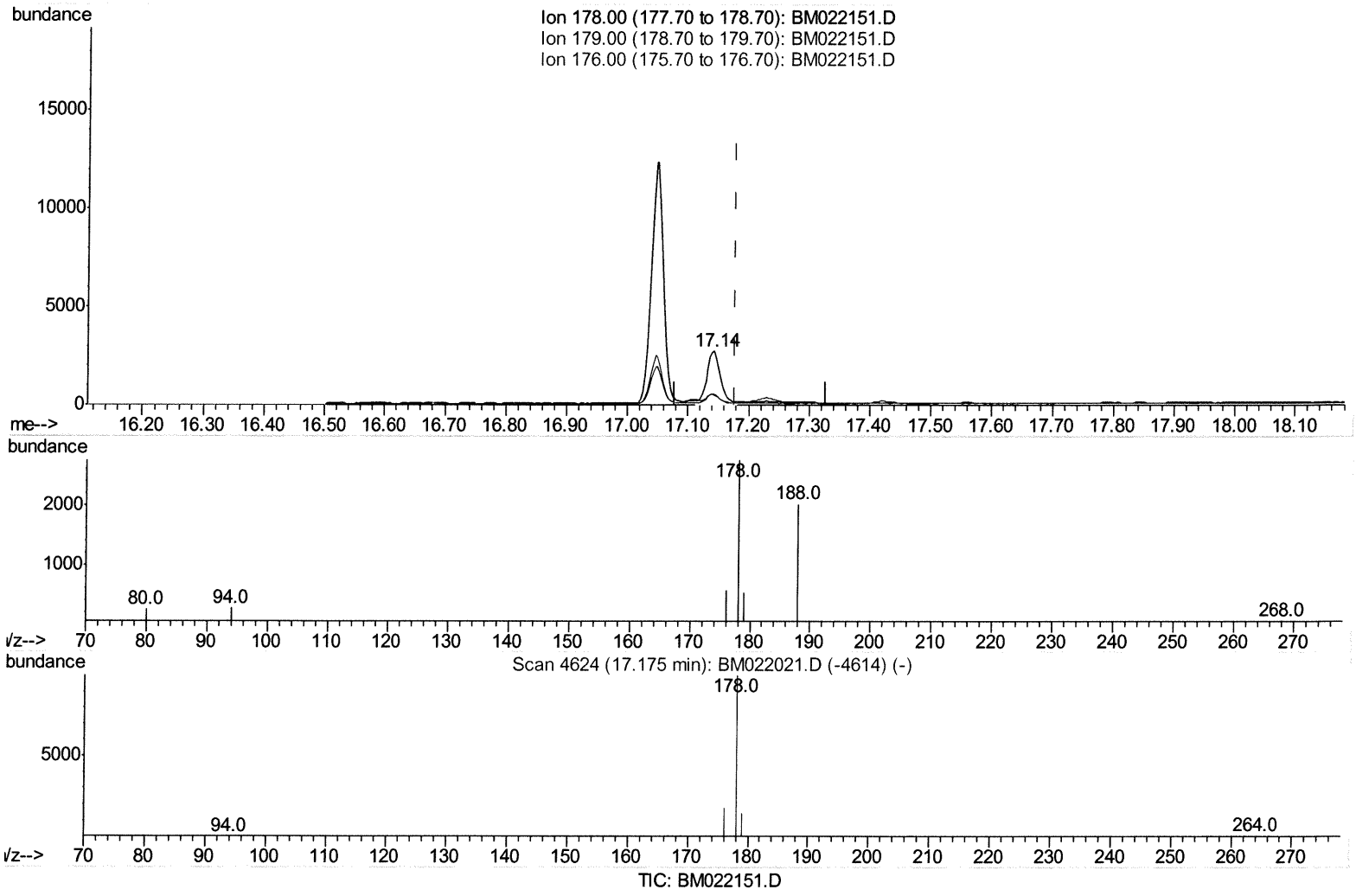
Ion	Exp%	Act%
178.00	100	100
179.00	19.40	185.00#
176.00	20.80	45.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:06 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(13) Anthracene

17.143min (-0.035) 0.44ng/ul m JU 08/20/19

response 4424

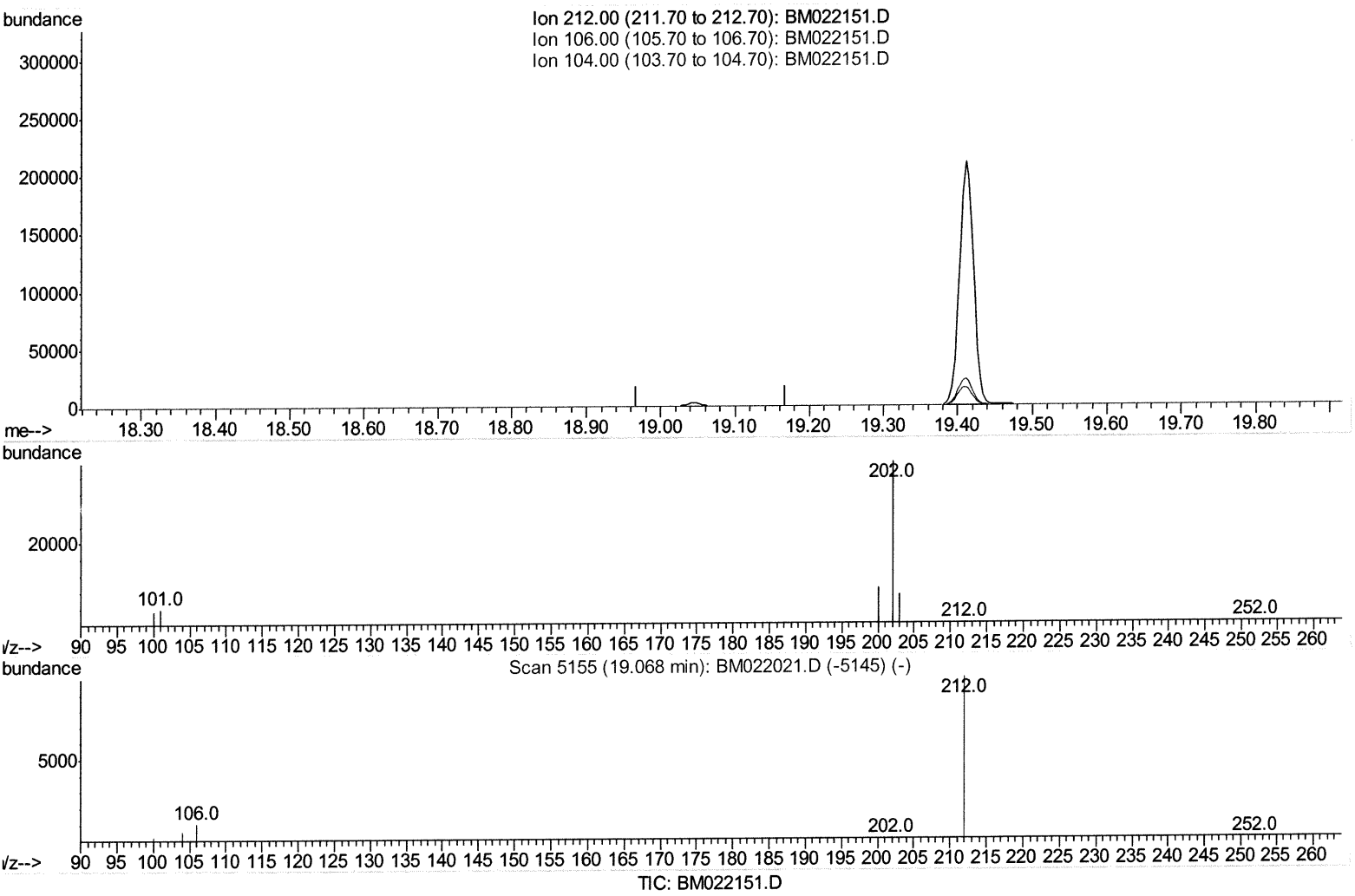
Ion	Exp%	Act%
178.00	100	100
179.00	19.40	19.19
176.00	20.80	20.89
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:52 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(14) Fluoranthene-d10 (SURR)

19.068min (-19.068) 0.00ng/ul

response 0

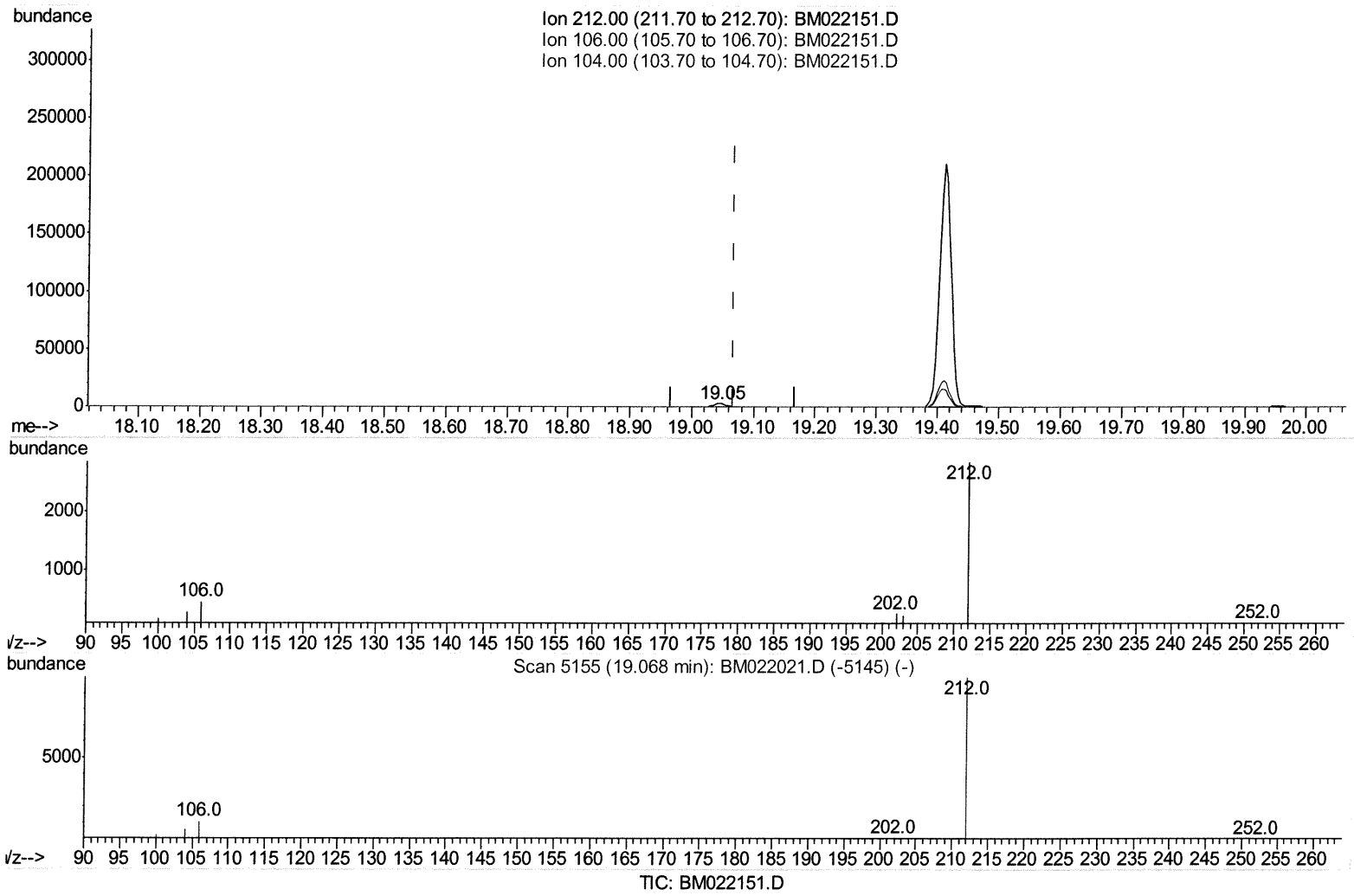
Ion	Exp%	Act%
212.00	100	0.00
106.00	9.90	0.00#
104.00	6.00	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:52 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(14) Fluoranthene-d10 (SURR)

19.045min (-0.023) 0.28ng/ul m JU 08/20/19

response 3872

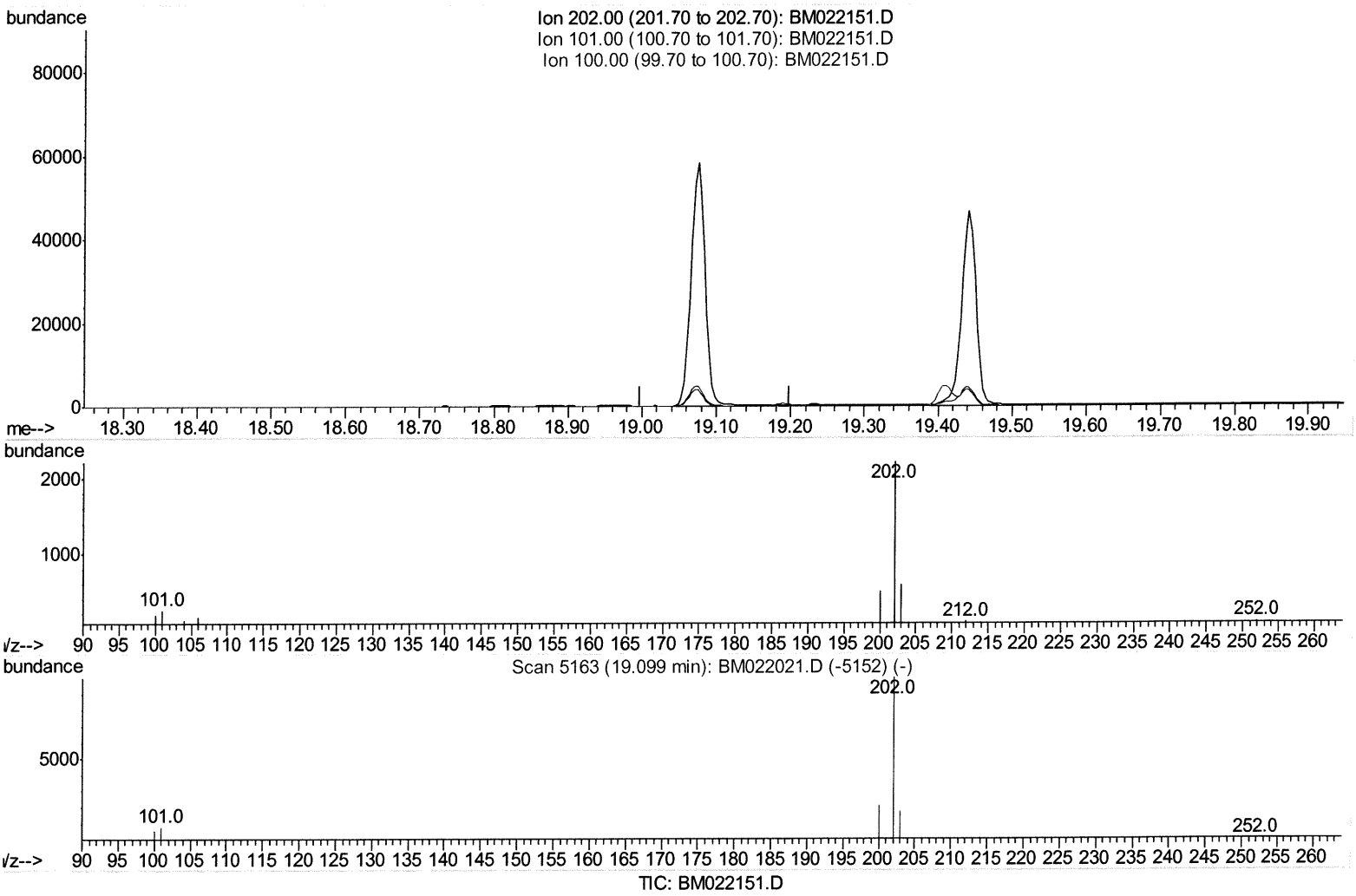
Ion	Exp%	Act%
212.00	100	100
106.00	9.90	0.00#
104.00	6.00	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:52 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(15) Fluoranthene (C)

19.098min (-19.098) 0.00ng/ul

response 0

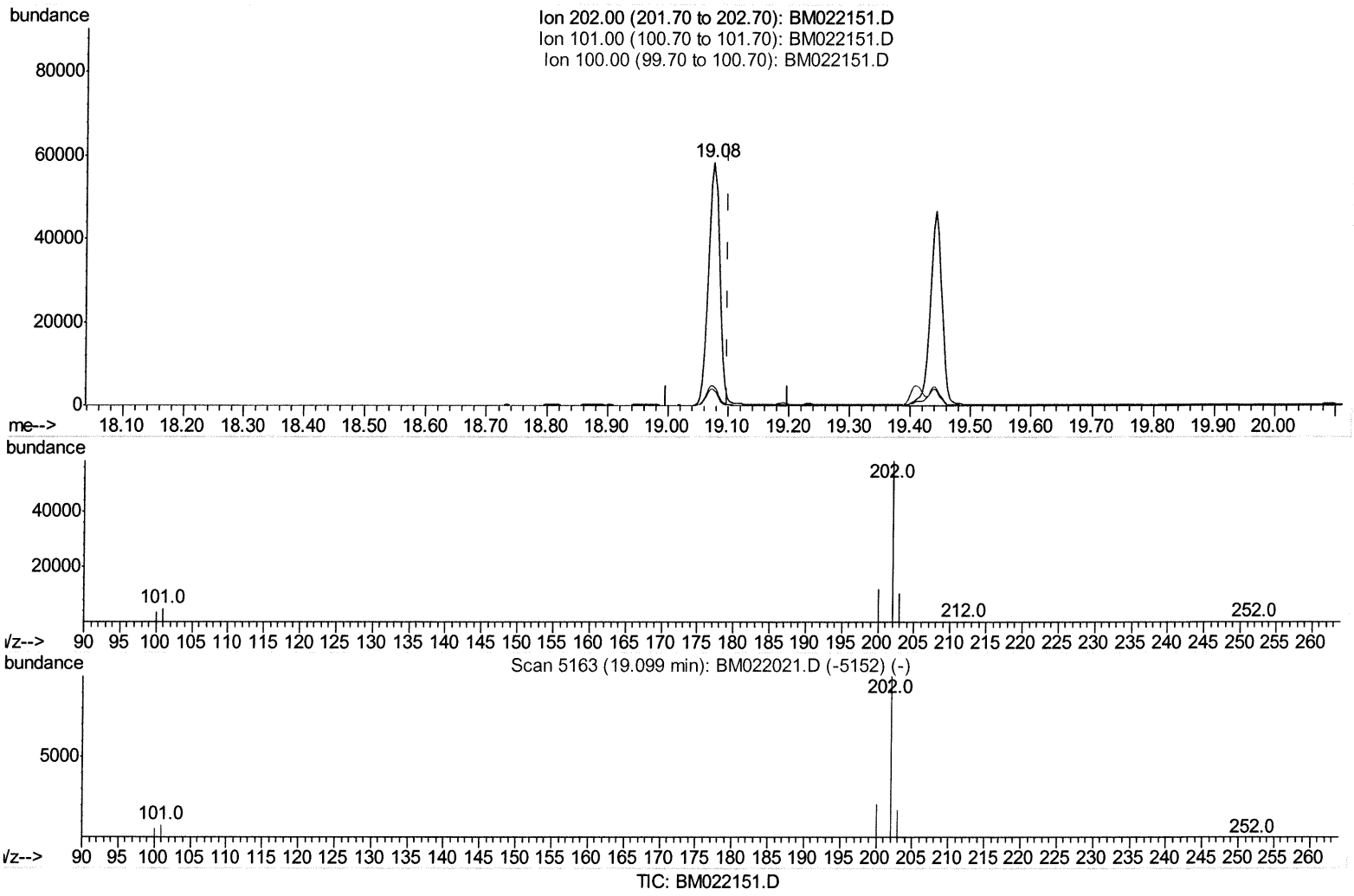
Ion	Exp%	Act%
202.00	100	0.00
101.00	10.20	0.00
100.00	8.10	0.00
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:52 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



TIC: BM022151.D

(15) Fluoranthene (C)

19.076min (-0.023) 4.71ng/ul m JU 08/20/19

response 75009

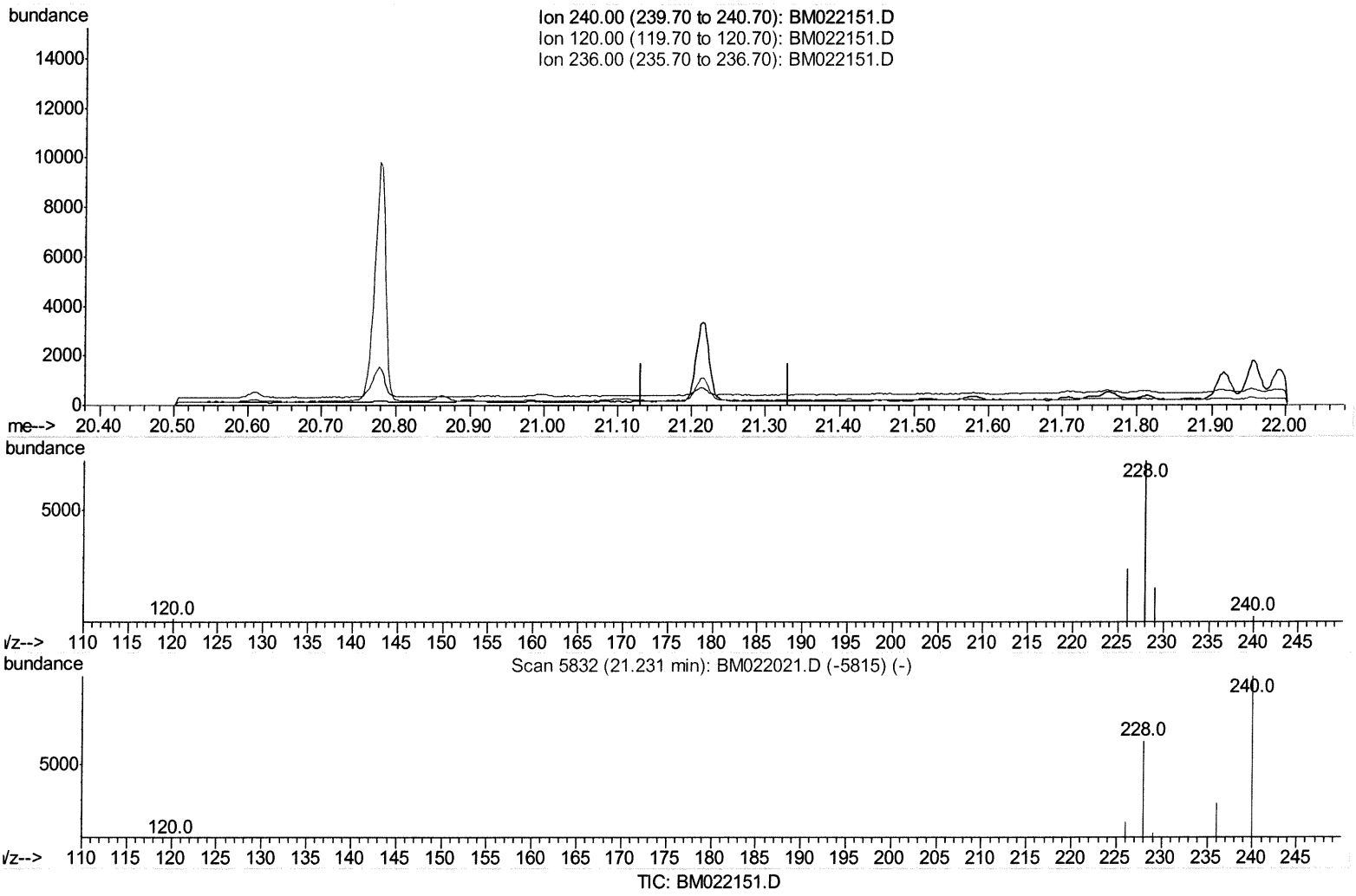
Ion	Exp%	Act%
202.00	100	100
101.00	10.20	8.37
100.00	8.10	6.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:52 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(16) Chrysene-d12 (I)

21.231min (-21.231) 0.00ng/ul

response 0

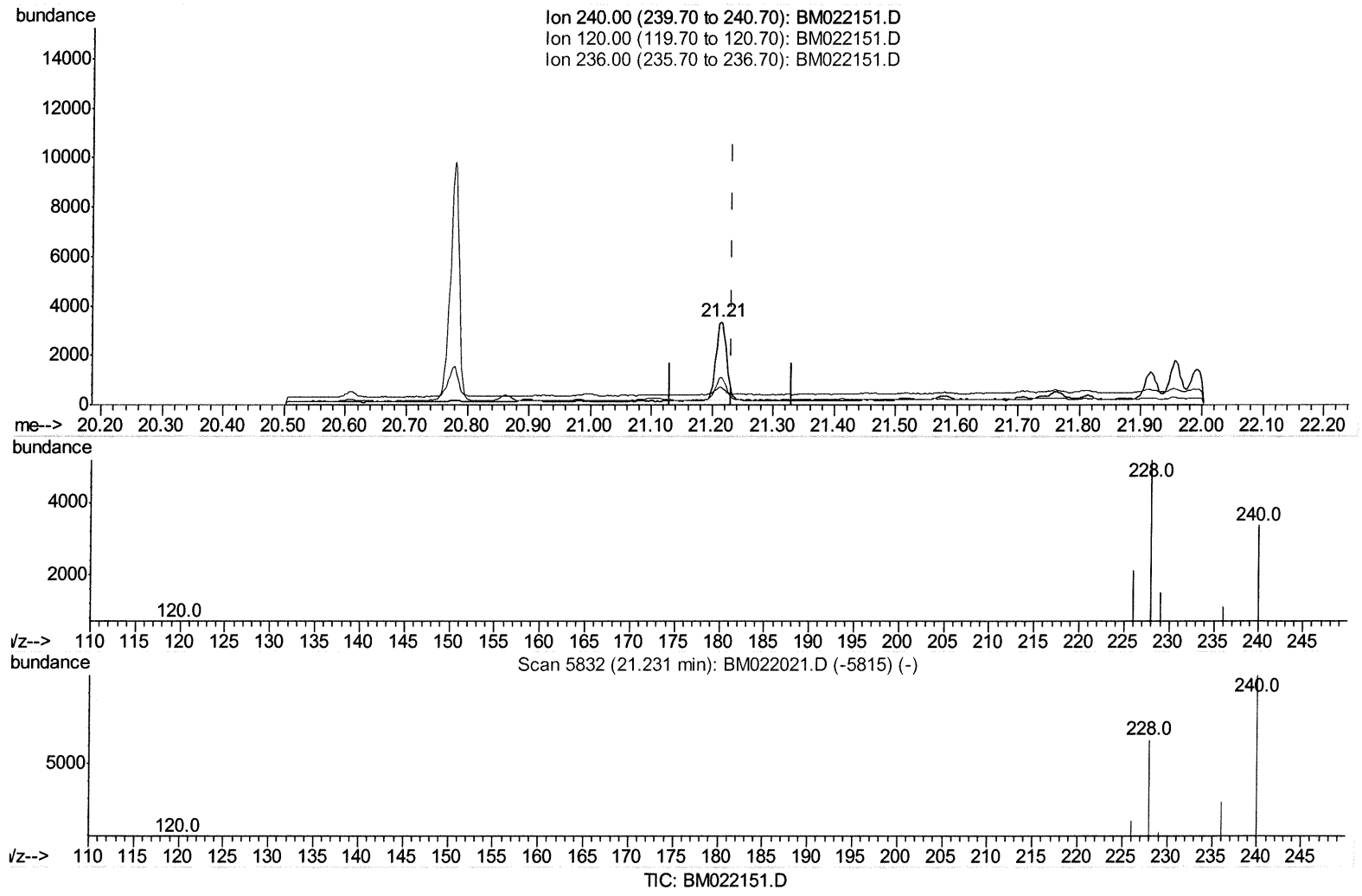
Ion	Exp%	Act%
240.00	100	0.00
120.00	16.20	0.00#
236.00	32.30	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:42:52 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(16) Chrysene-d12 (I)

21.214min (-0.017) 0.40ng/ul m JU 08/20/19

response 3918

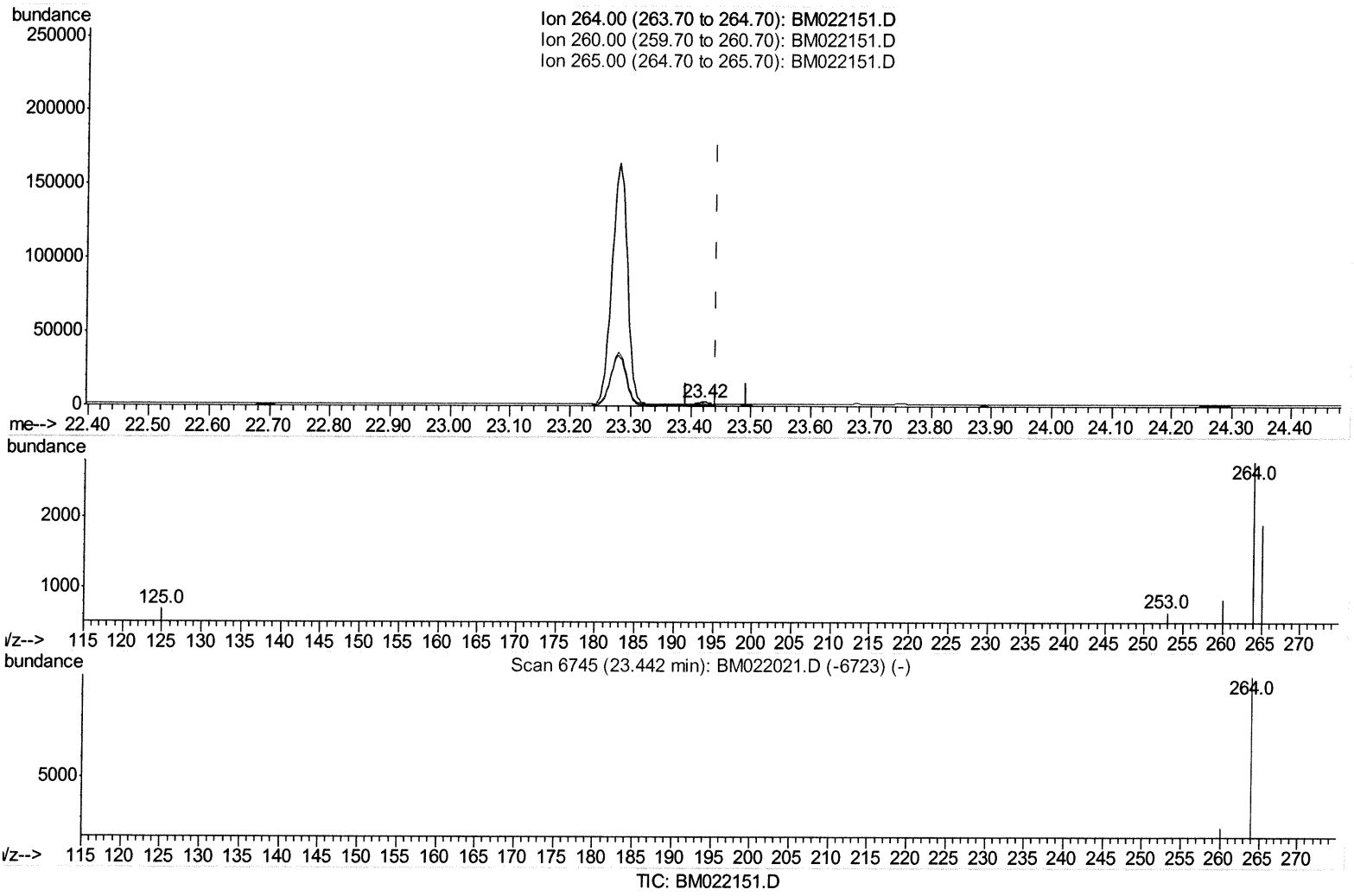
Ion	Exp%	Act%
240.00	100	100
120.00	16.20	21.12#
236.00	32.30	33.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:44:09 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(20) Perylene-d12 (I)

23.421min (-0.022) 0.40ng/ul

response 4318

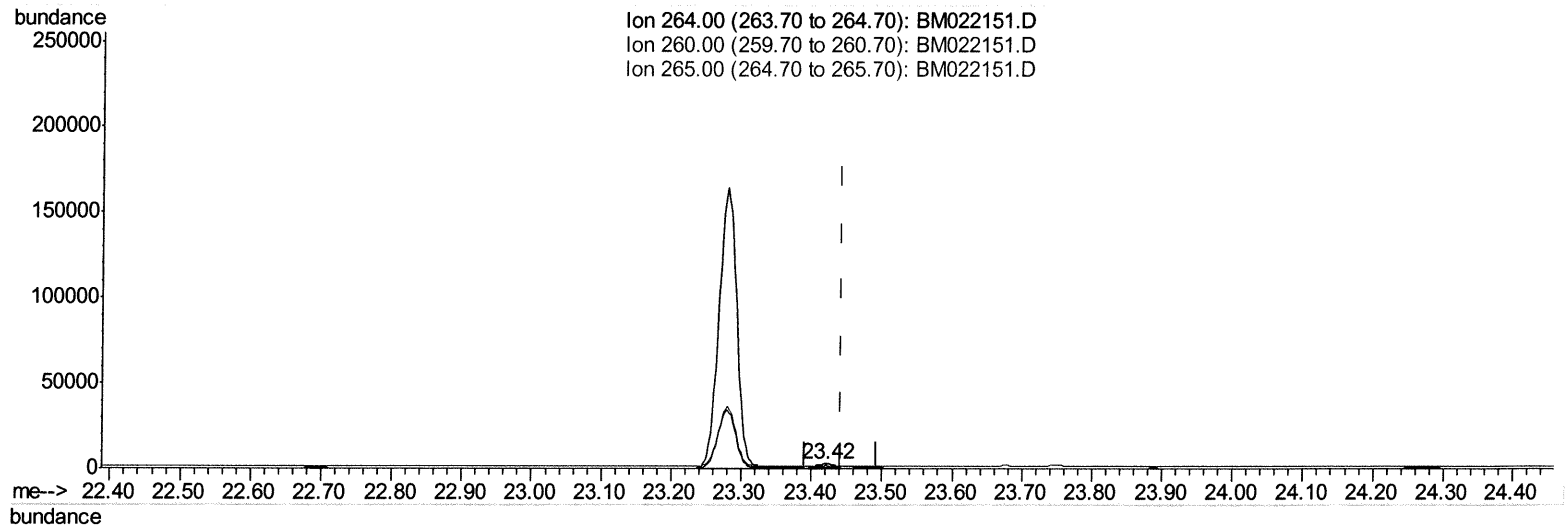
Ion	Exp%	Act%
264.00	100	100
260.00	27.50	29.87
265.00	117.00	68.02#
0.00	0.00	0.00

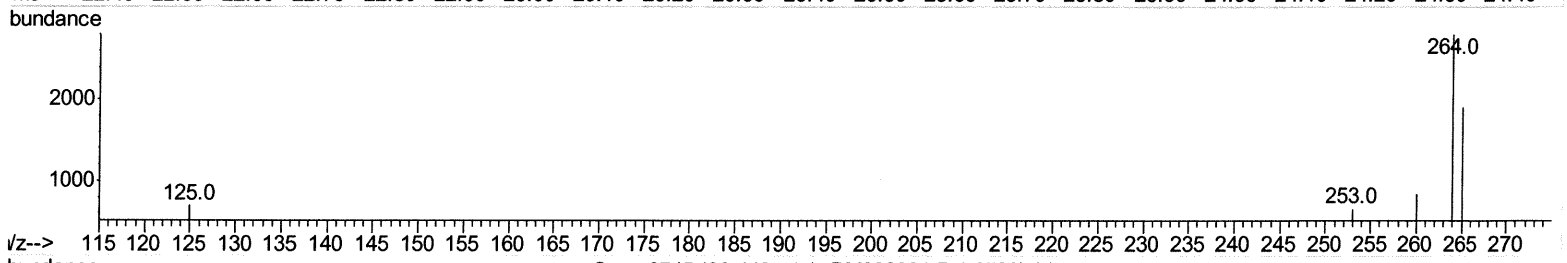
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

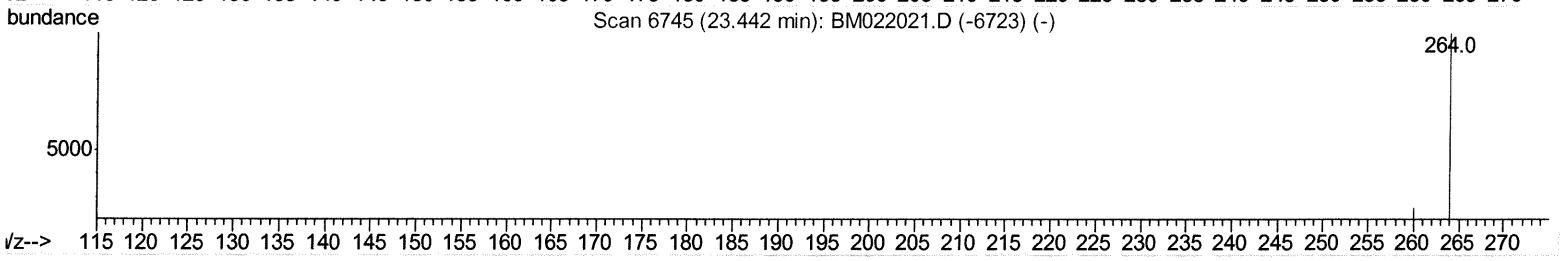
Quant Time: Aug 16 14:44:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM







(20) Perylene-d12 (I)

23.421min (-0.022) 0.40ng/ul m JU 08/20/19

response 3978

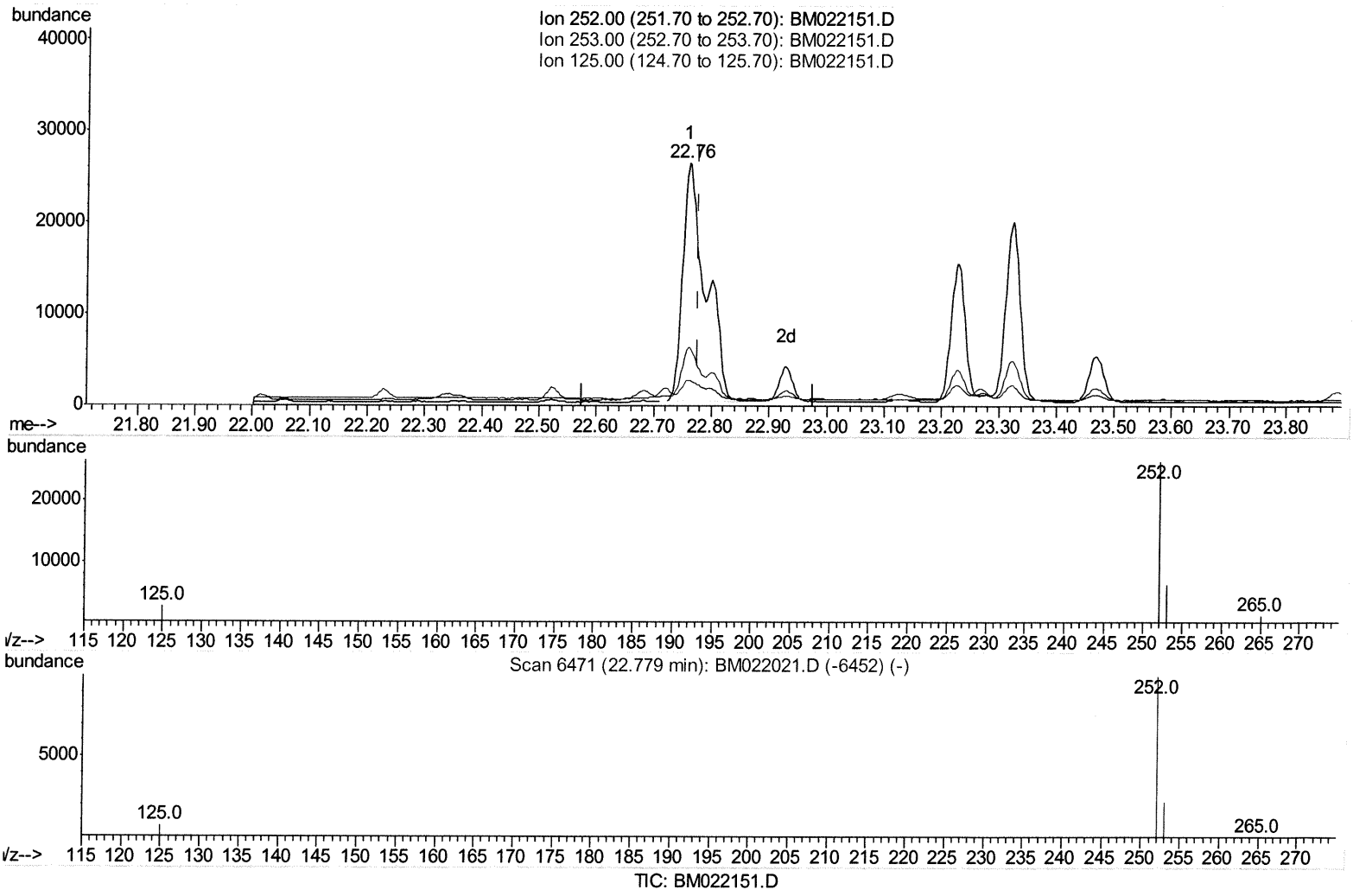
Ion	Exp%	Act%
264.00	100	100
260.00	27.50	29.87
265.00	117.00	68.02#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:44:09 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



TIC: BM022151.D

(21) Benzo(b)fluoranthene

22.759min (-0.017) 5.44ng/ul

response 72963

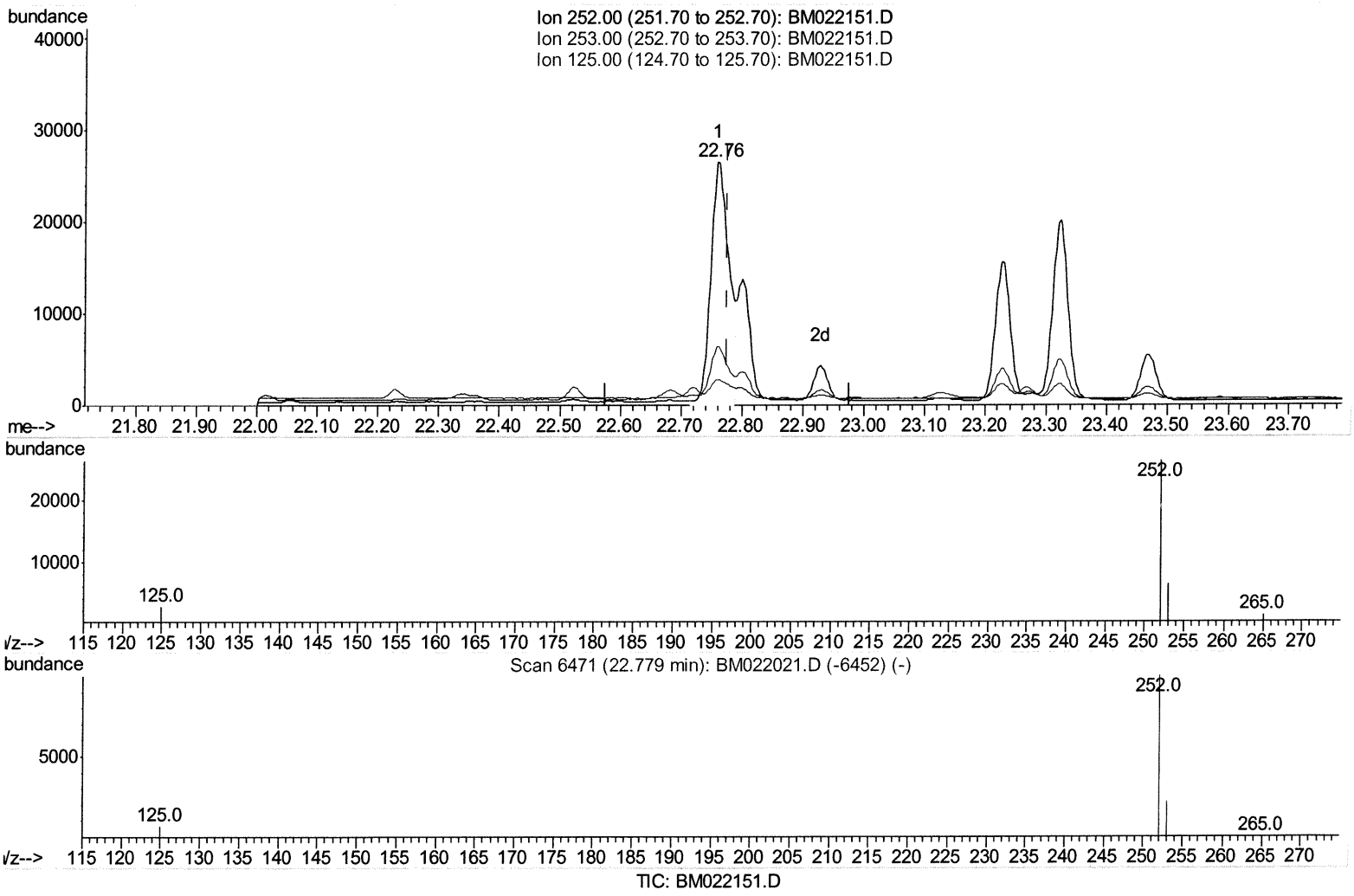
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	24.14
125.00	15.50	10.44
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:44:09 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(21) Benzo(b)fluoranthene

22.759min (-0.017) 4.08ng/ul m JU 08/20/19

response 54733

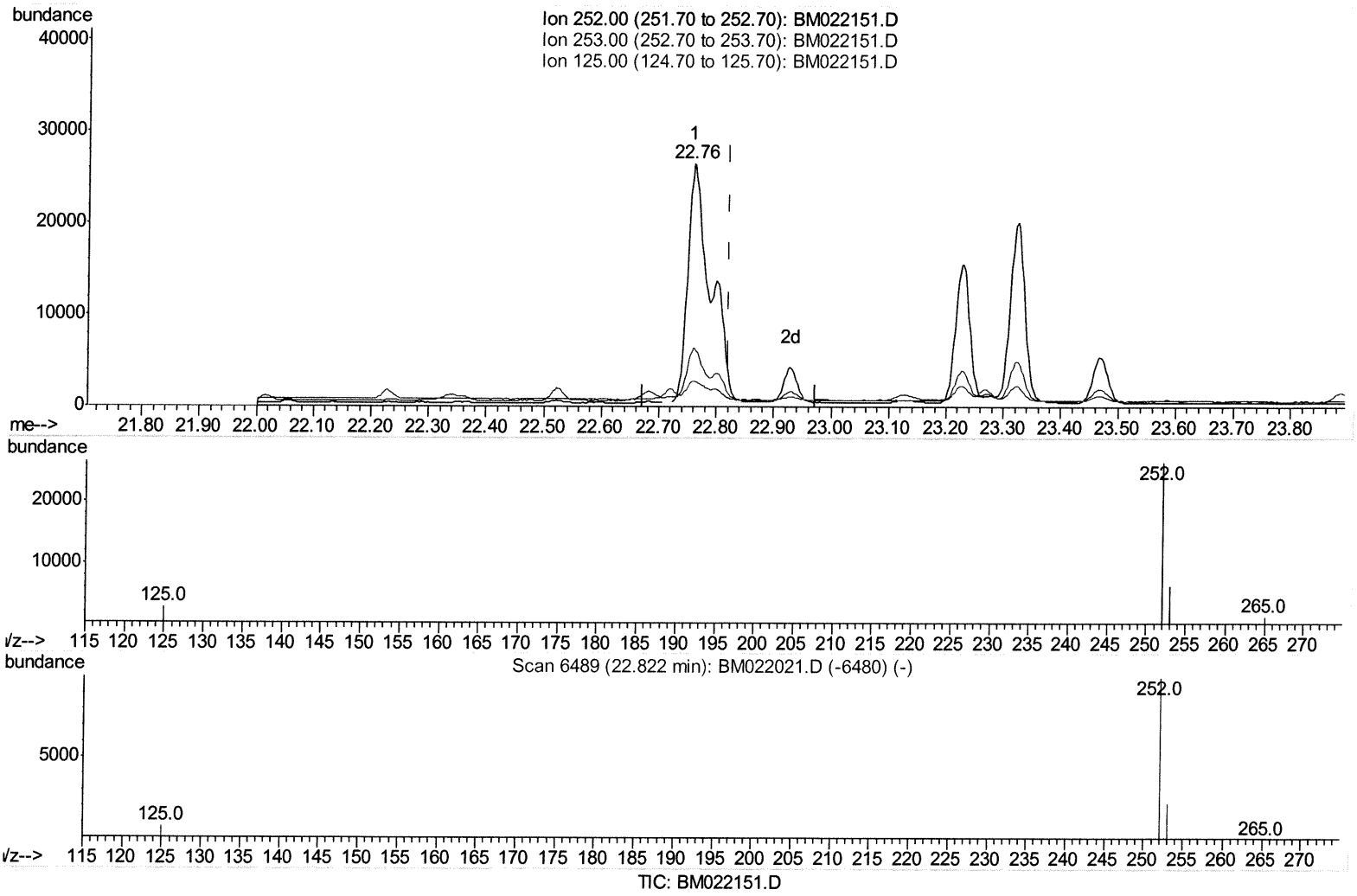
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	24.14
125.00	15.50	10.44
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:44:09 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



TIC: BM022151.D

(22) Benzo(k)fluoranthene

22.759min (-0.063) 4.82ng/ul

response 73148

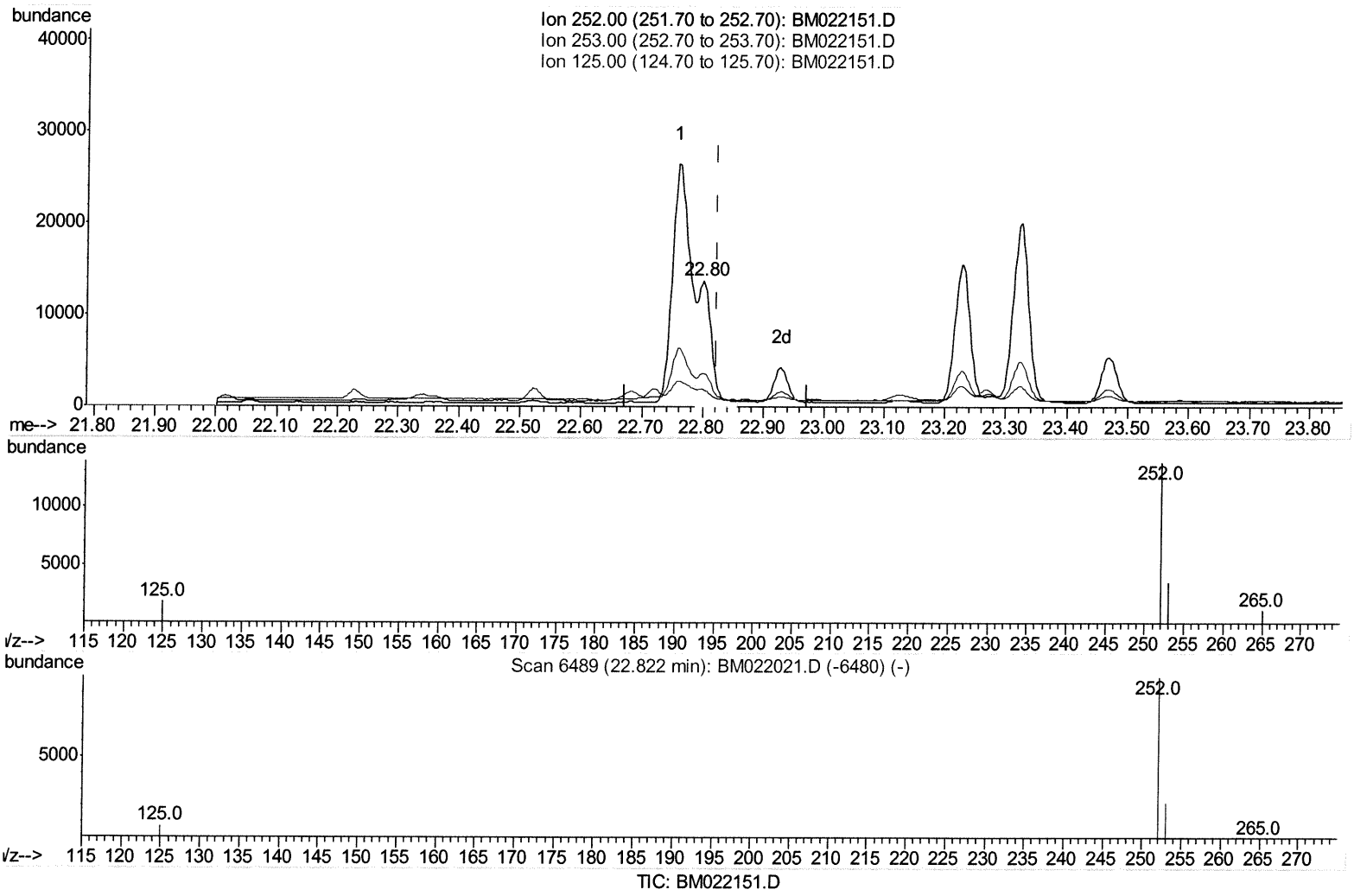
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	24.14#
125.00	15.20	10.44#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 14:44:09 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM



(22) Benzo(k)fluoranthene

22.800min (-0.022) 1.44ng/ul m JU 08/20/19

response 21819

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	26.63#
125.00	15.20	13.84
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022151.D
Acq On : 15 Aug 2019 19:46
Operator : HP/JU
Sample : K4242-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AF9

Manual Integrations APPROVED
mohammad
8/19/2019 10:45:44 AM

Quant Time: Aug 16 14:45:19 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 : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	680	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.37	136	2924	0.40	ng/ul	-0.03
6) Acenaphthene-d10	14.25	164	1670	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.00	188	4083m	0.40	ng/ul	-0.03
16) Chrysene-d12	21.21	240	3918m	0.40	ng/ul	-0.02
20) Perylene-d12	23.42	264	3978m	0.40	ng/ul	-0.02
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.98	152	1363	0.28	ng/ul	-0.03
14) Fluoranthene-d10	19.05	212	3872m	0.28	ng/ul	-0.02
Target Compounds						Qvalue
3) Naphthalene	10.42	128	425	0.051	ng/ul#	68
5) 2-Methylnaphthalene	12.06	142	395	0.072	ng/ul	99
7) Acenaphthylene	13.97	152	708	0.091	ng/ul#	72
8) Acenaphthene	14.31	153	374	0.059	ng/ul#	90
9) Fluorene	15.31	166	523	0.074	ng/ul#	96
12) Phenanthrene	17.05	178	17702m	1.490	ng/ul	
13) Anthracene	17.14	178	4424m	0.437	ng/ul	
15) Fluoranthene	19.08	202	75009m	4.713	ng/ul	
17) Pyrene	19.44	202	62695	3.894	ng/ul	98
18) Benzo(a)anthracene	21.20	228	33548	2.394	ng/ul	99
19) Chrysene	21.25	228	36873	2.046	ng/ul	99
21) Benzo(b)fluoranthene	22.76	252	54733m	4.080	ng/ul	
22) Benzo(k)fluoranthene	22.80	252	21819m	1.437	ng/ul	
23) Benzo(a)pyrene	23.32	252	34928	2.560	ng/ul#	79
24) Indeno(1,2,3-cd)pyrene	25.62	276	29221	1.794	ng/ul#	93
25) Dibenzo(a,h)anthracene	25.62	278	6594	0.501	ng/ul#	89
26) Benzo(g,h,i)perylene	26.30	276	23835	1.625	ng/ul	99

JU 08/20/19

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