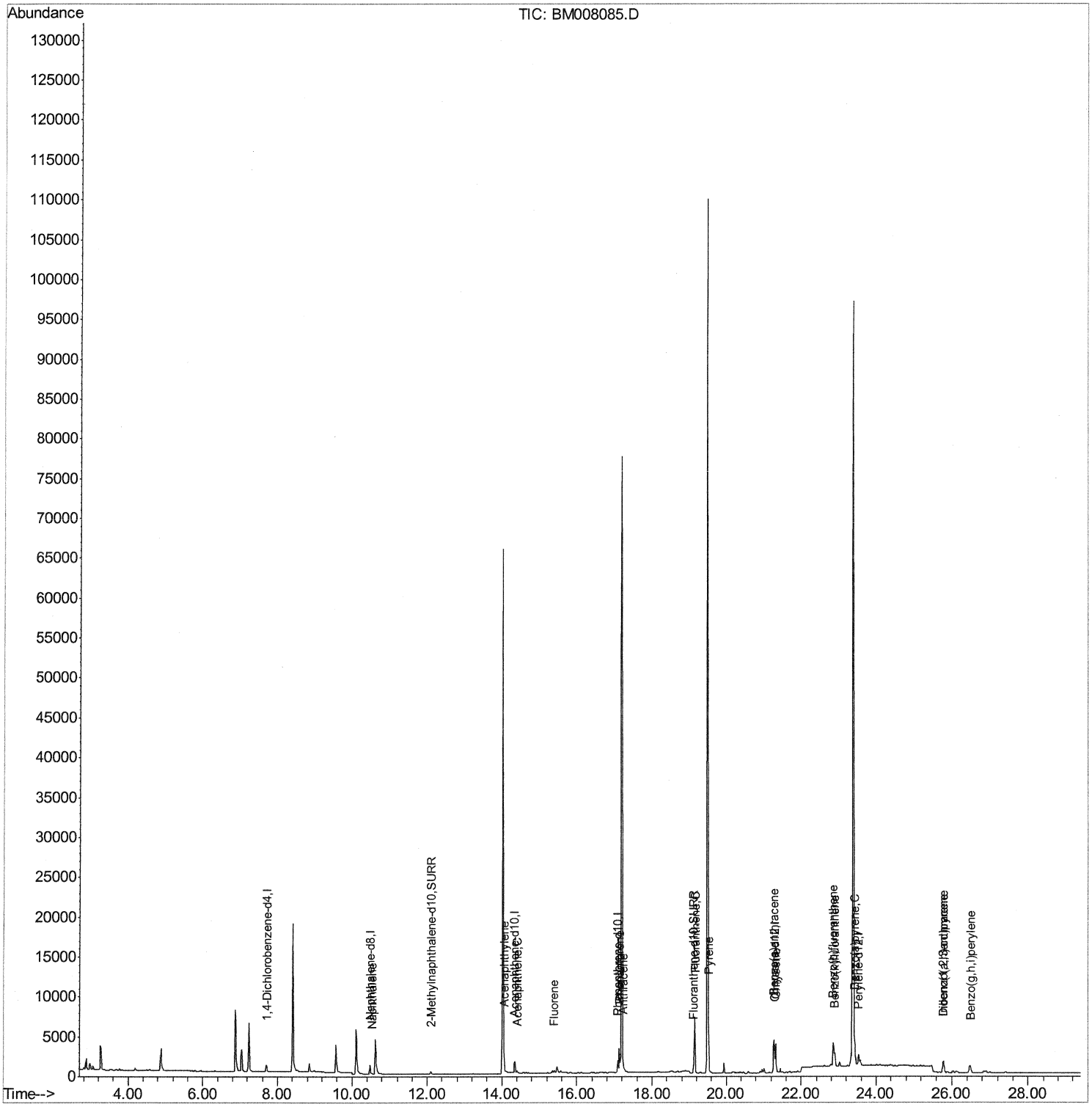
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:31:36 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM

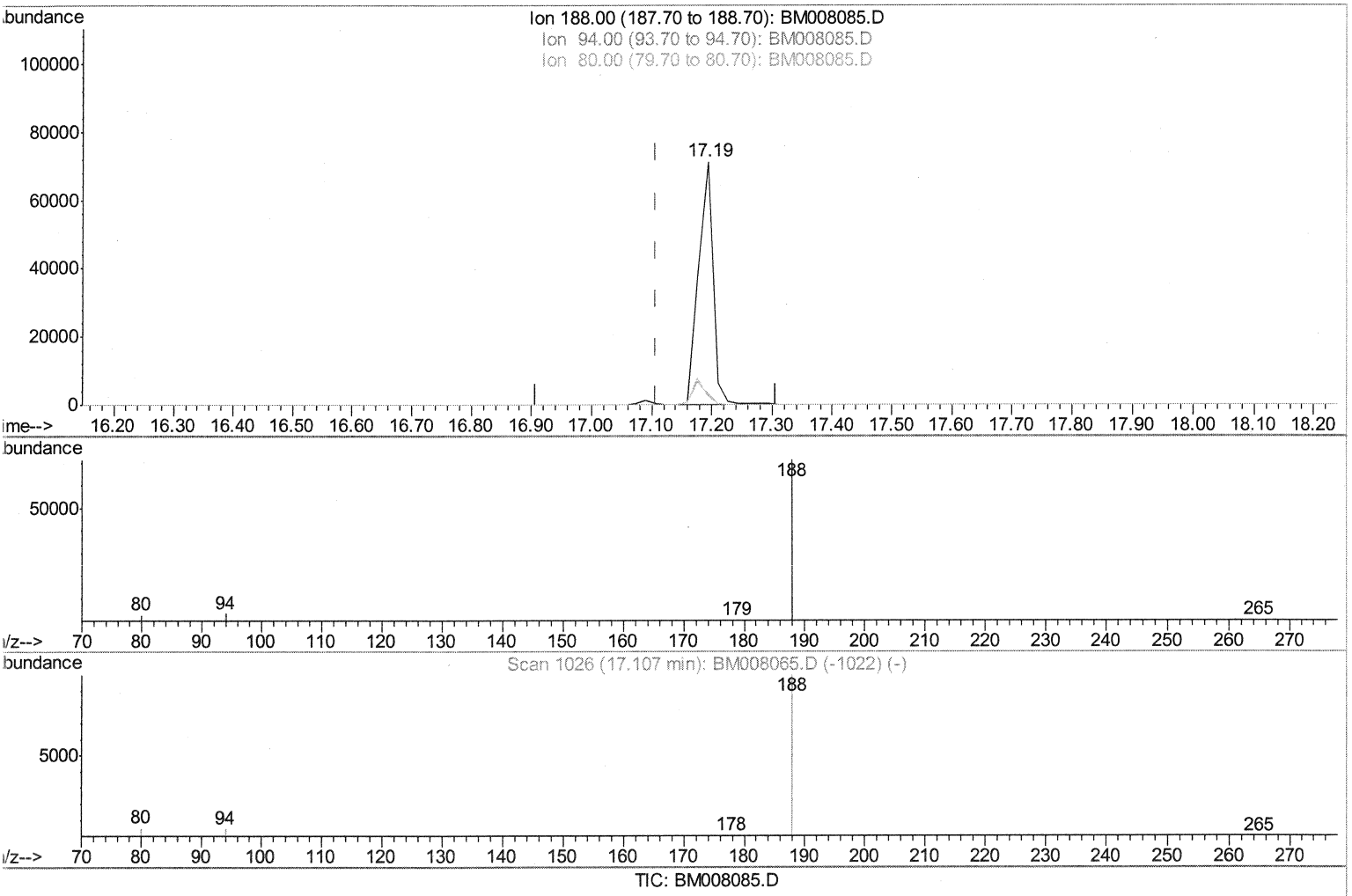


Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:26:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



(10) Phenanthrene-d10 (I)

17.193min (+0.086) 0.40ng/ul

response 120321

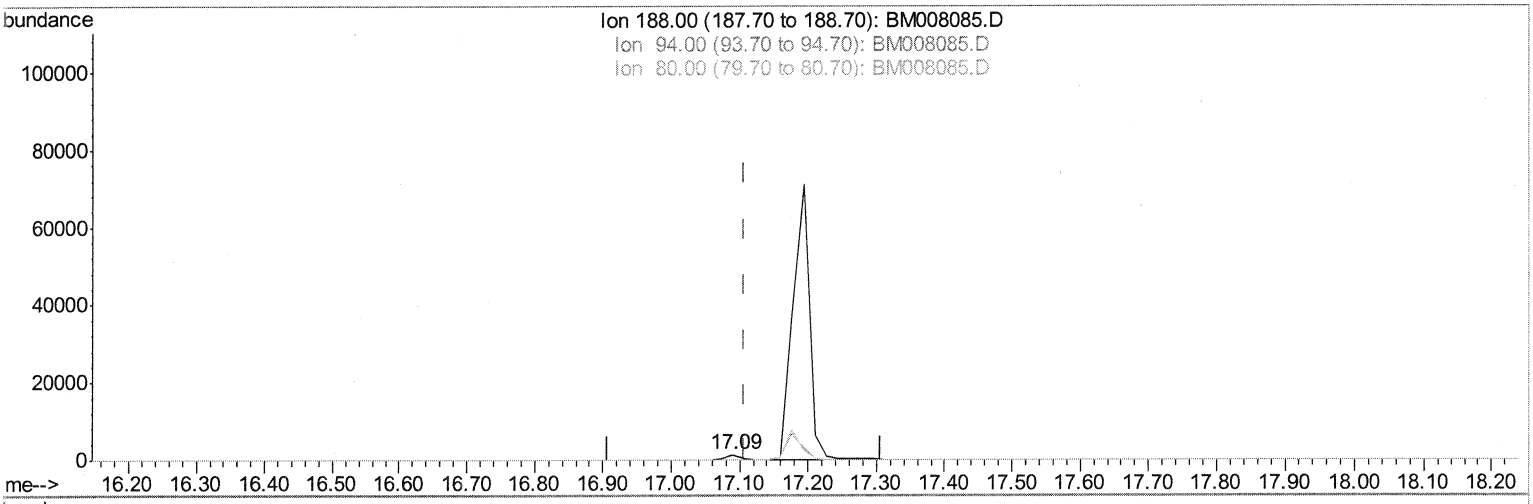
Ion	Exp%	Act%
188.00	100	100
94.00	11.00	4.64#
80.00	11.80	3.84#
0.00	0.00	0.00

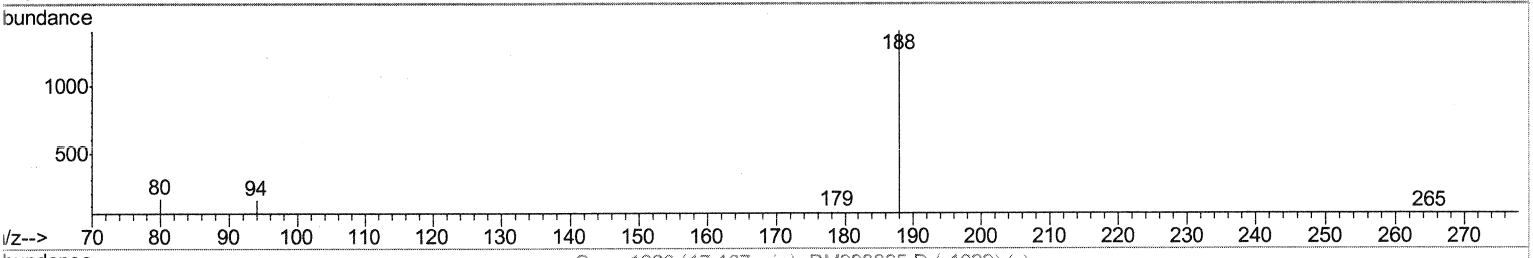
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

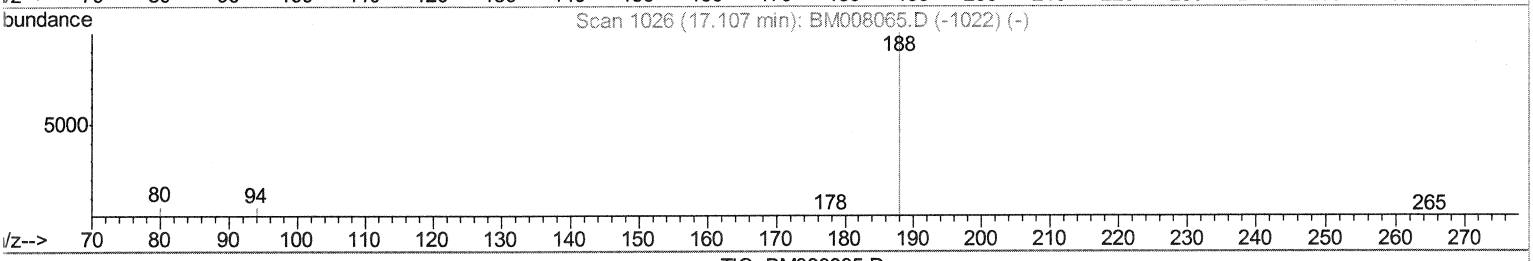
Quant Time: Nov 28 15:26:54 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM







TIC: BM008085.D

(10) Phenanthrene-d10 (I)

17.090min (-0.017) 0.40ng/ul m SJ 11/29/16

response 2251

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	10.35
80.00	11.80	10.99
0.00	0.00	0.00

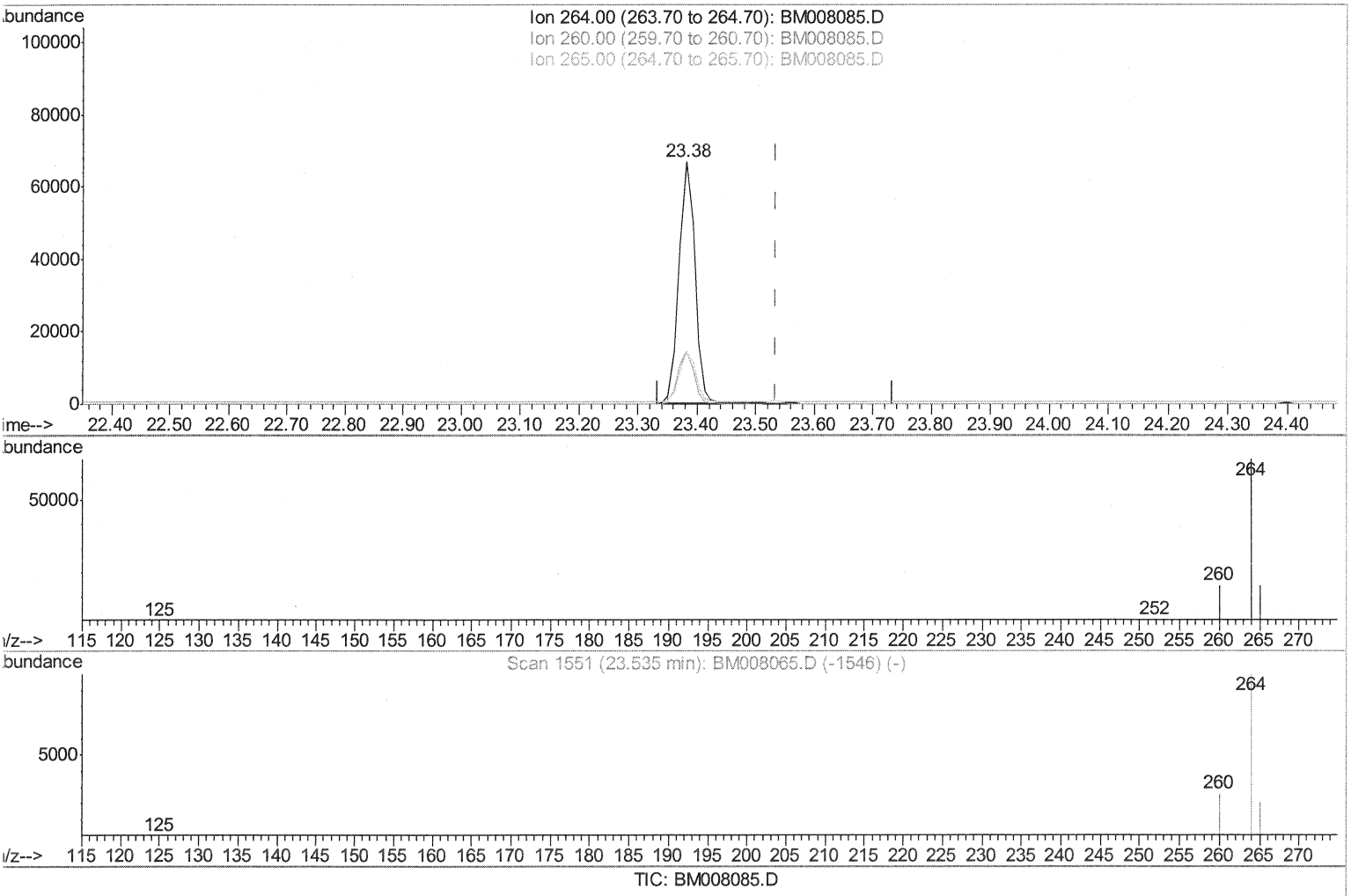
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:27:49 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



(20) Perylene-d12 (I)

23.382min (-0.153) 0.40ng/ul

response 122965

Ion	Exp%	Act%
264.00	100	100
260.00	30.10	21.89#
265.00	103.50	21.57#
0.00	0.00	0.00

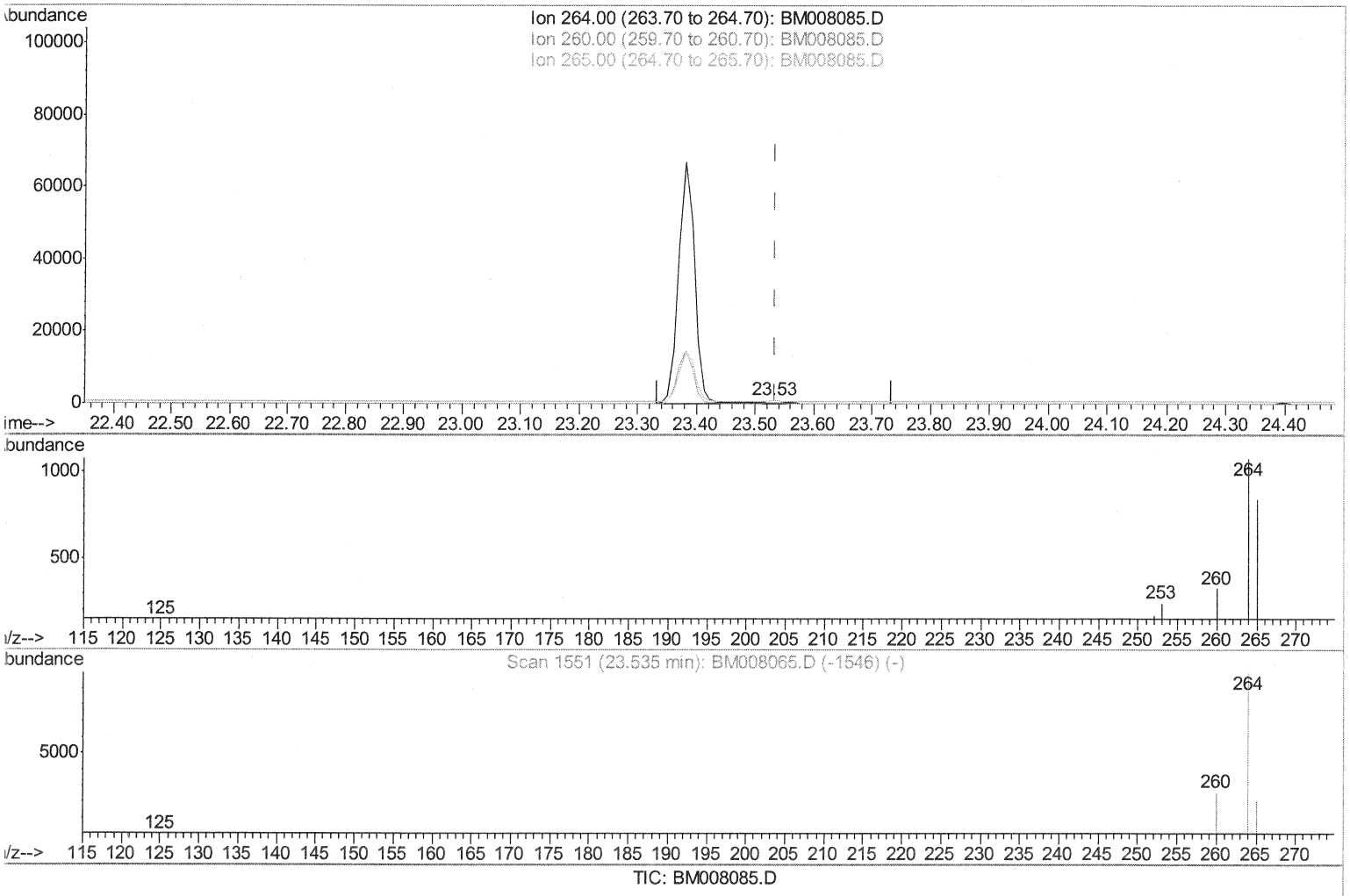
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:27:49 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



TIC: BM008085.D

(20) Perylene-d12 (I)

23.528min (-0.007) 0.40ng/ul m SJ 11/29/16

response 1819

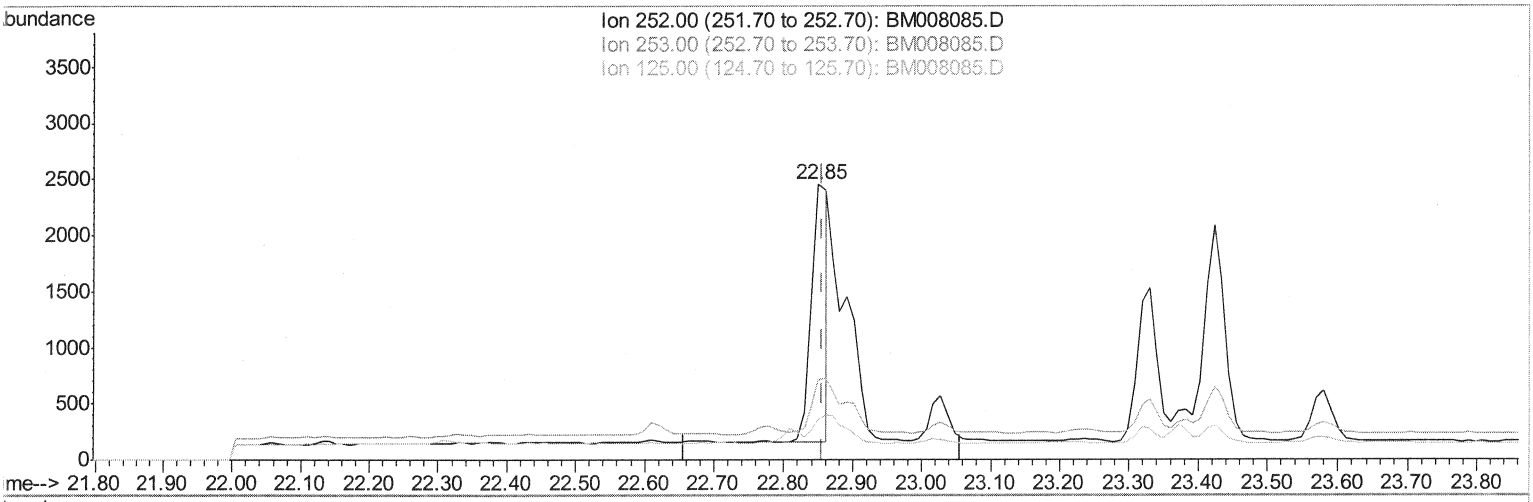
Ion	Exp%	Act%
264.00	100	100
260.00	30.10	30.33
265.00	103.50	78.20#
0.00	0.00	0.00

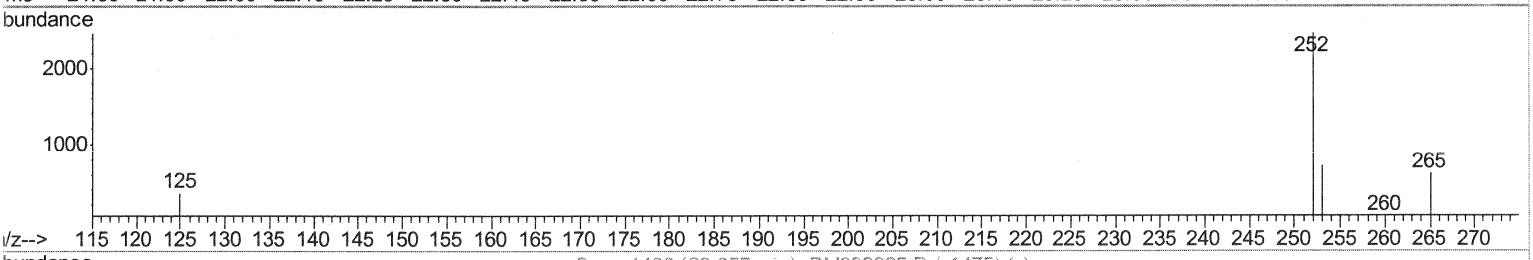
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

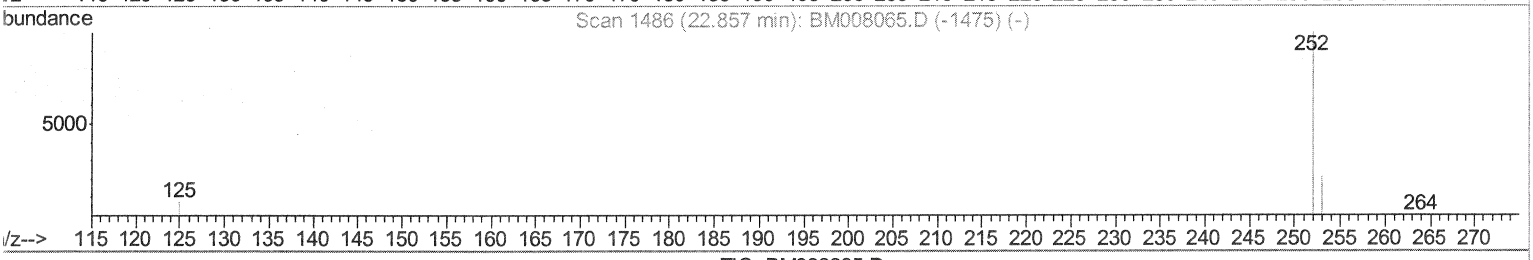
Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM







TIC: BM008085.D

(21) Benzo(b)fluoranthene

22.850min (-0.007) 0.52ng/ul

response 3770

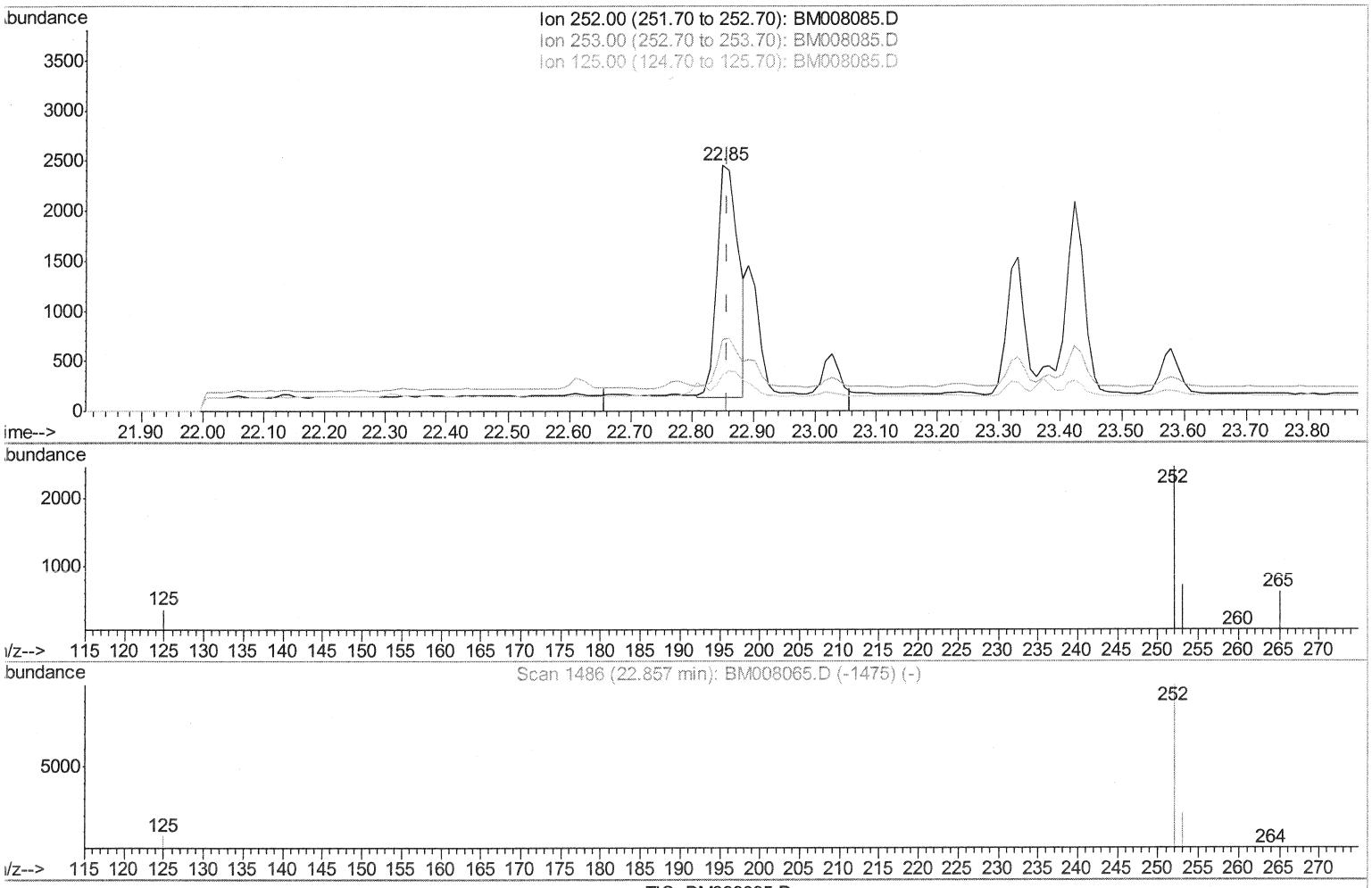
Ion	Exp%	Act%
252.00	100	100
253.00	32.10	28.93
125.00	17.50	14.44
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



TIC: BM008085.D

(21) Benzo(b)fluoranthene

22.850min (-0.007) 0.77ng/ul m SJ 11/29/16

response 5621

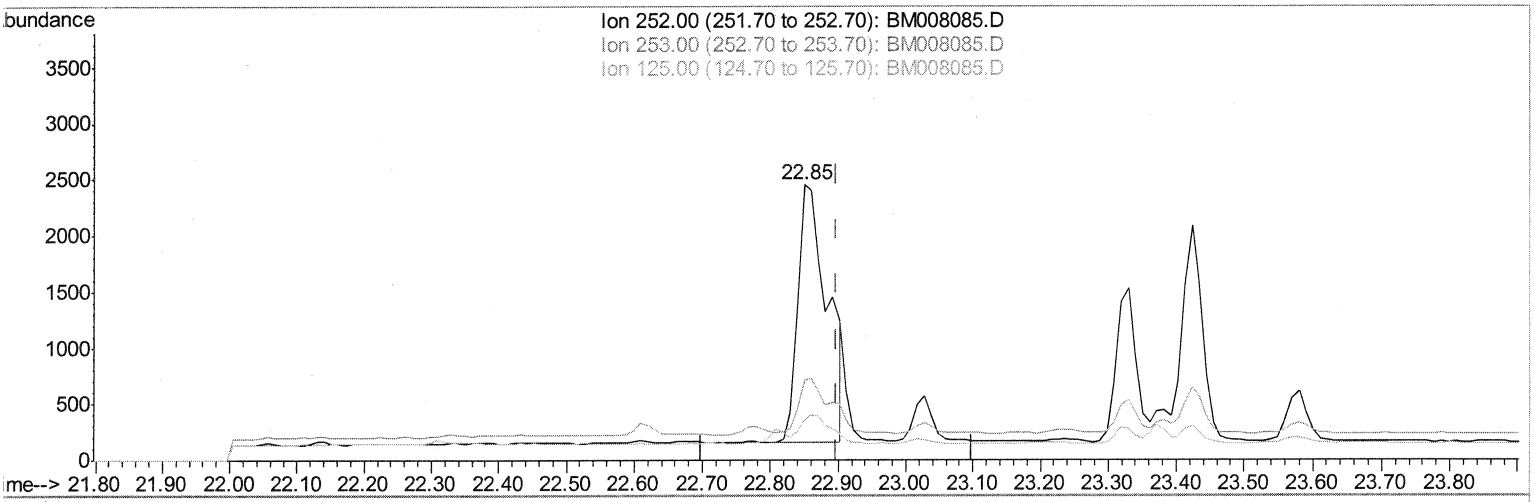
Ion	Exp%	Act%
252.00	100	100
253.00	32.10	28.93
125.00	17.50	14.44
0.00	0.00	0.00

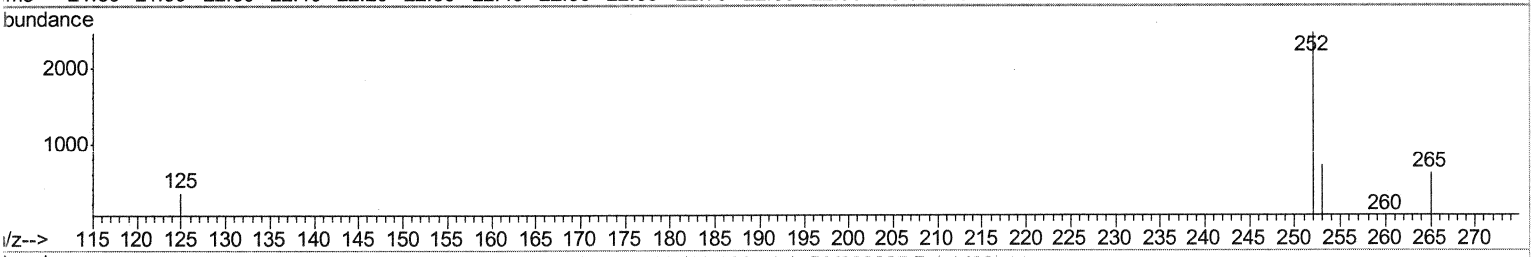
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

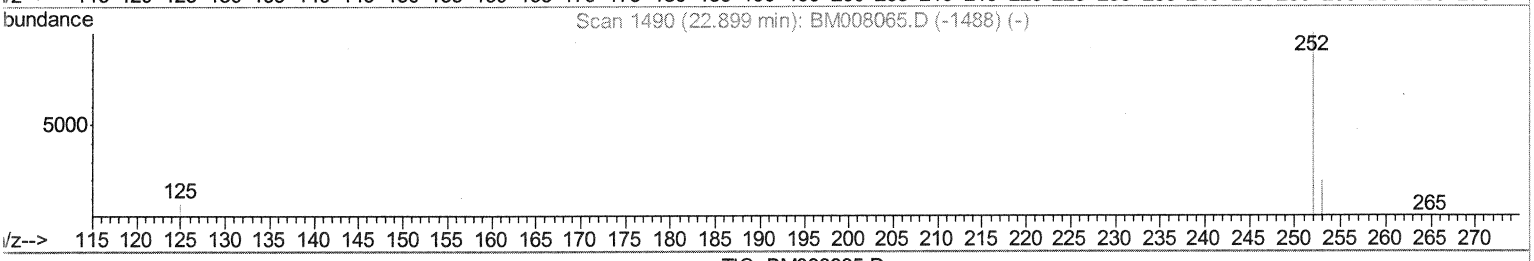
Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM







TIC: BM008085.D

(22) Benzo(k)fluoranthene

22.850min (-0.049) 0.93ng/ul

response 6984

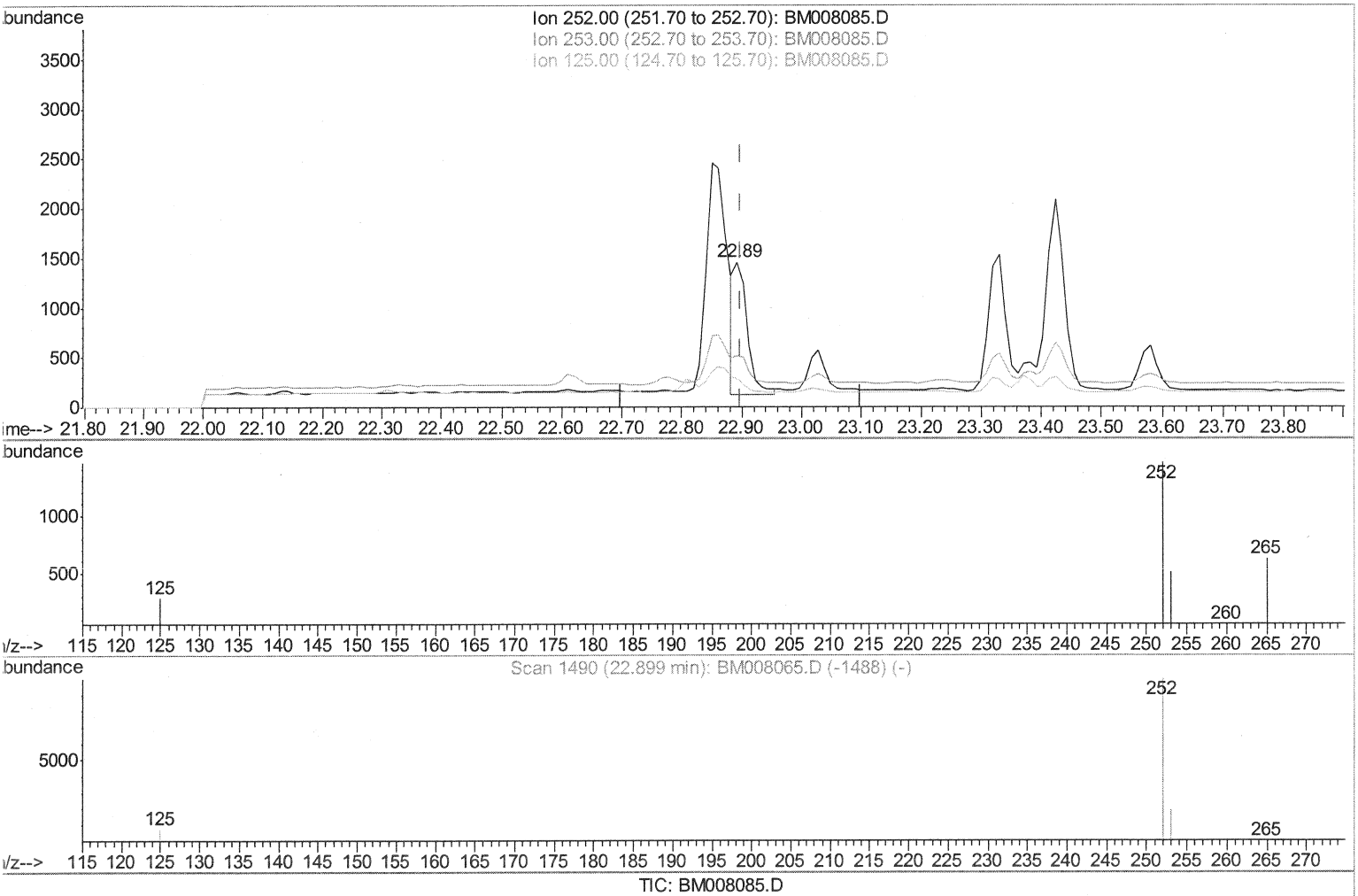
Ion	Exp%	Act%
252.00	100	100
253.00	30.60	28.93
125.00	17.10	14.44
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



(22) Benzo(k)fluoranthene

22.892min (-0.007) 0.28ng/ul m SJ 11/29/16

response 2065

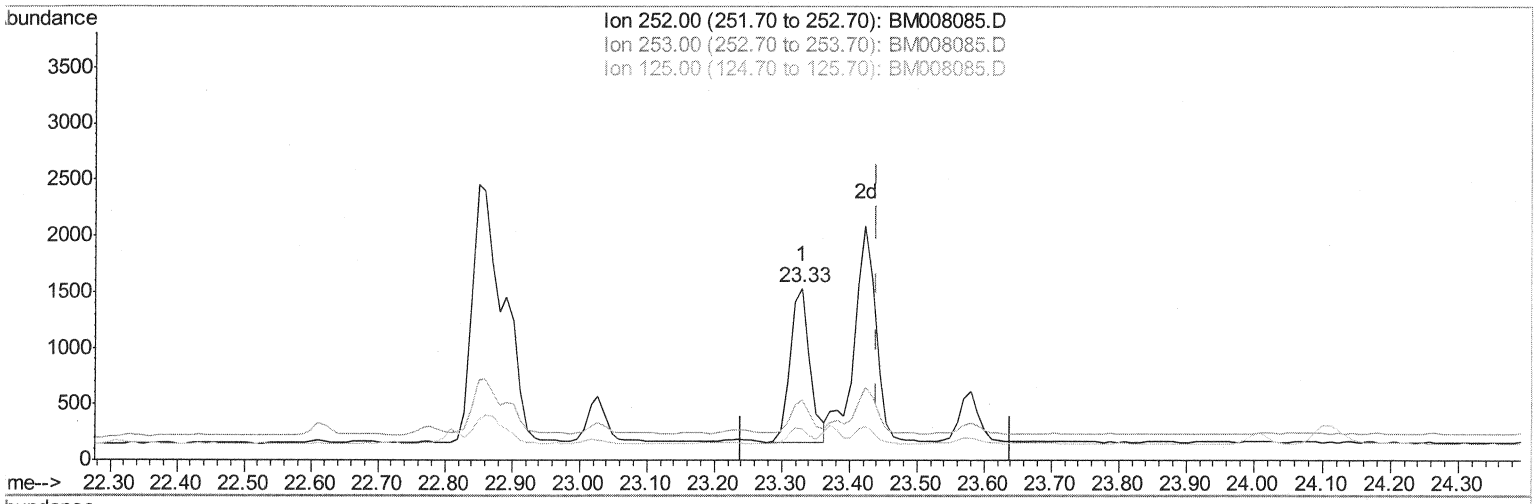
Ion	Exp%	Act%
252.00	100	100
253.00	30.60	35.19
125.00	17.10	19.48
0.00	0.00	0.00

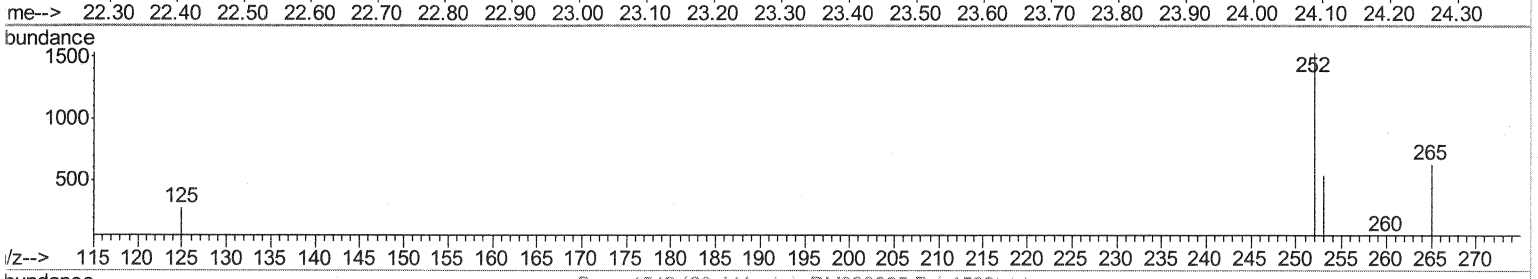
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

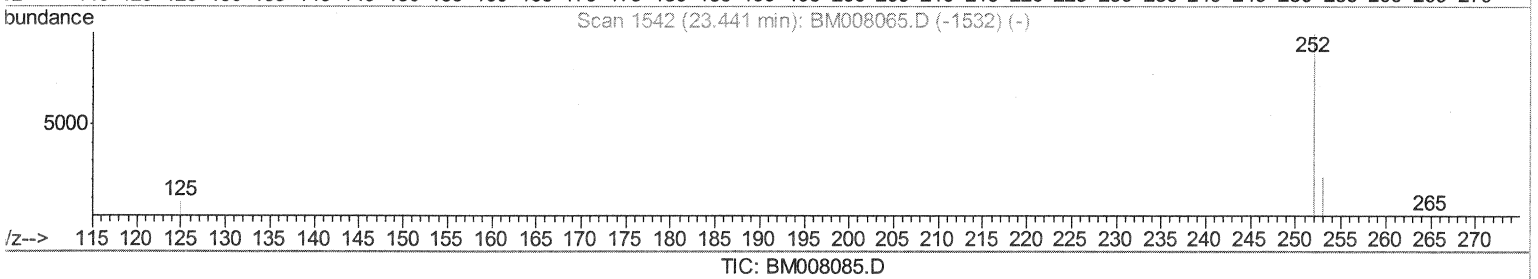
Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM







TIC: BM008085.D

(23) Benzo(a)pyrene (C)

23.329min (-0.111) 0.41ng/ul

response 2794

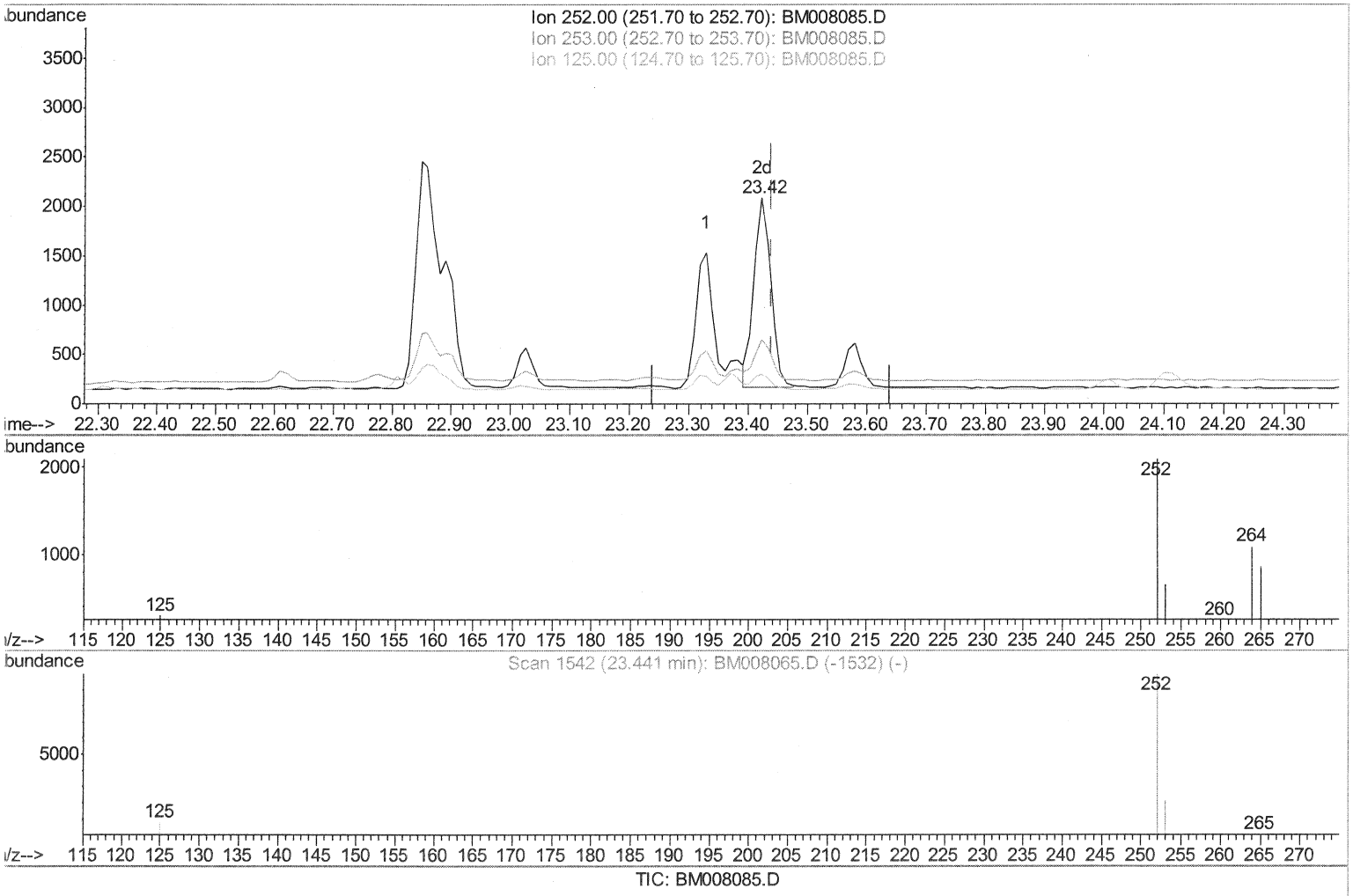
Ion	Exp%	Act%
252.00	100	100
253.00	35.60	35.36
125.00	22.60	18.20
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



(23) Benzo(a)pyrene (C)

23.423min (-0.017) 0.56ng/ul m SJ 11/29/16

response 3821

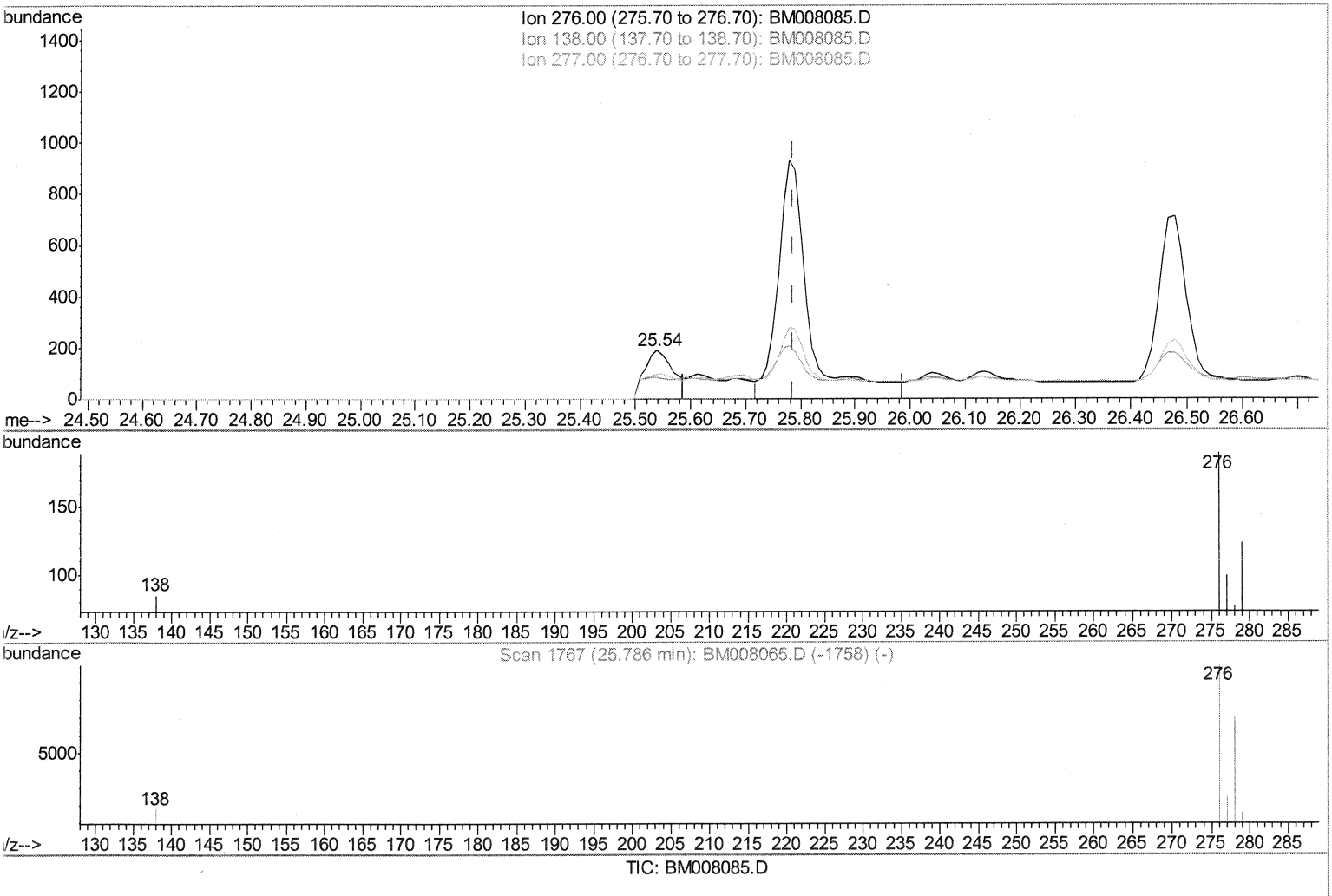
Ion	Exp%	Act%
252.00	100	100
253.00	35.60	31.21
125.00	22.60	14.53#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



TIC: BM008085.D

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

25.539min (-0.247) 0.16ng/ul

response 1330

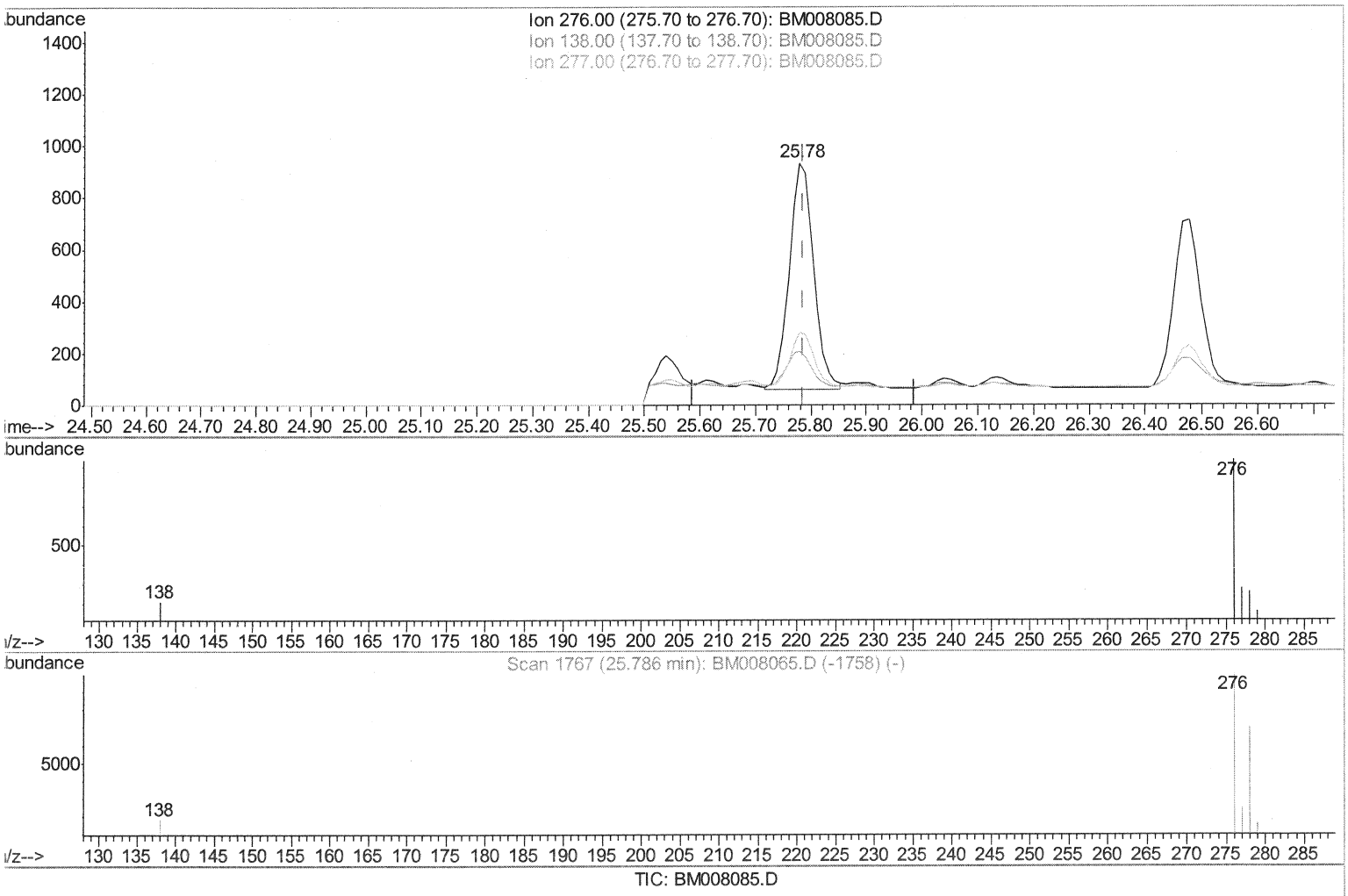
Ion	Exp%	Act%
276.00	100	100
138.00	23.90	78.27#
277.00	24.50	86.69#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



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

25.779min (-0.007) 0.32ng/ul m SJ 11/29/16

response 2669

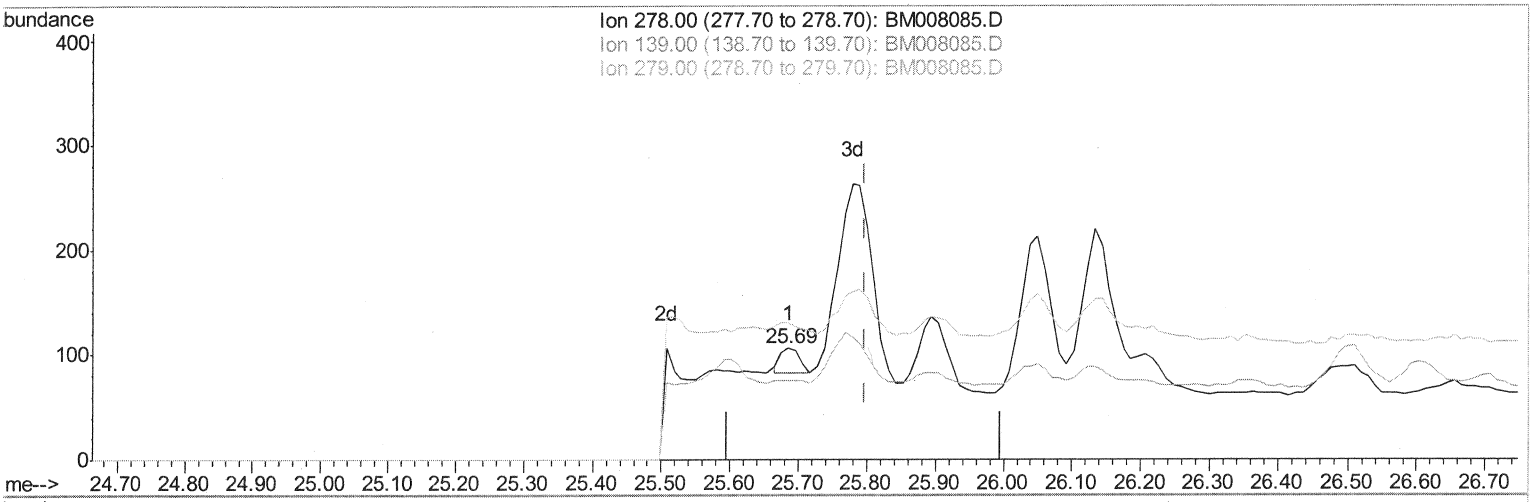
Ion	Exp%	Act%
276.00	100	100
138.00	23.90	39.00#
277.00	24.50	43.20#
0.00	0.00	0.00

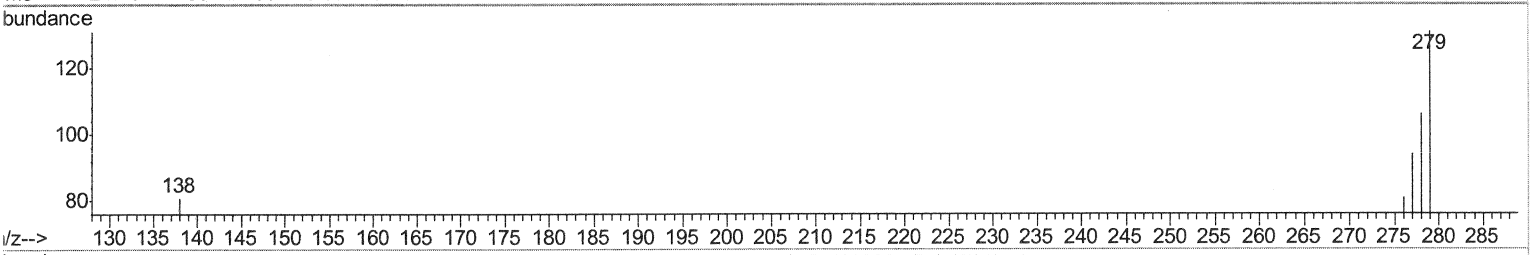
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

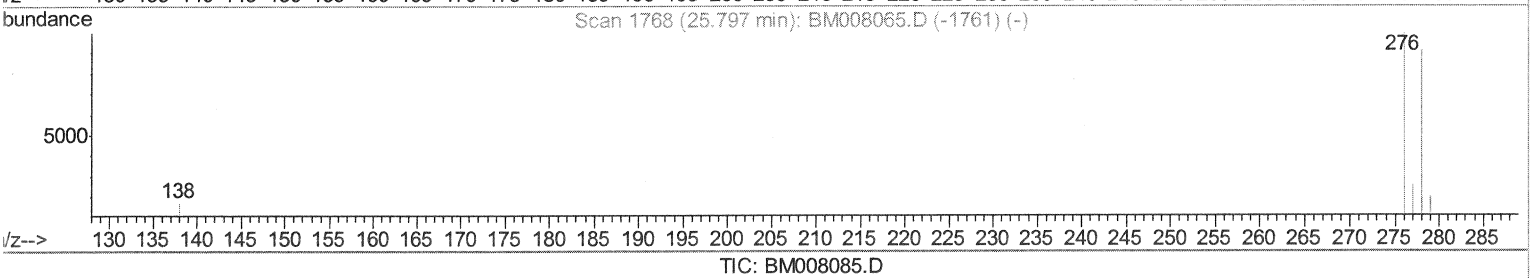
Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM







TIC: BM008085.D

(25) Dibenzo(a,h)anthracene

25.685min (-0.111) 0.01ng/ul

response 44

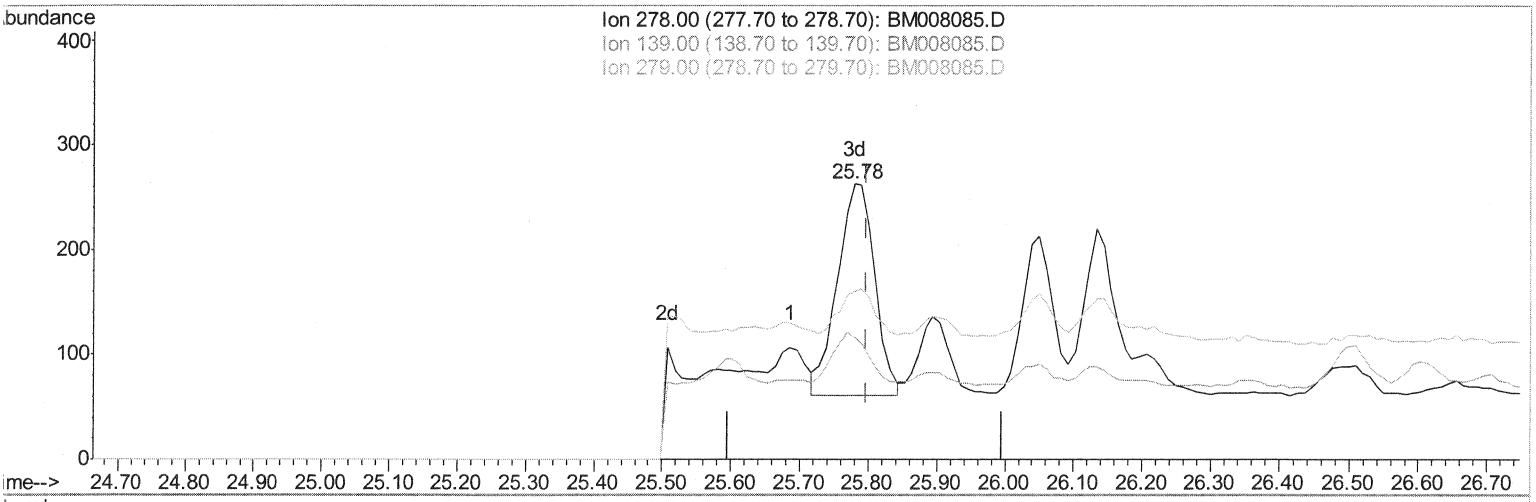
Ion	Exp%	Act%
278.00	100	100
139.00	21.70	71.70#
279.00	32.40	123.58#
0.00	0.00	0.00

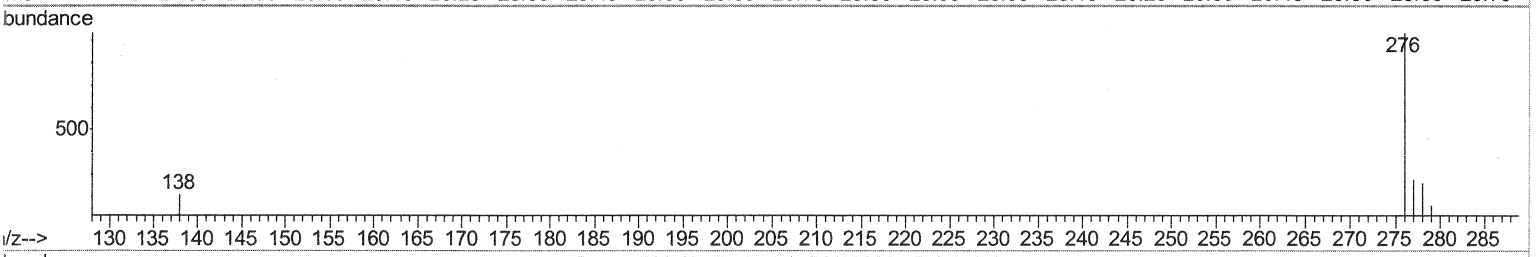
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

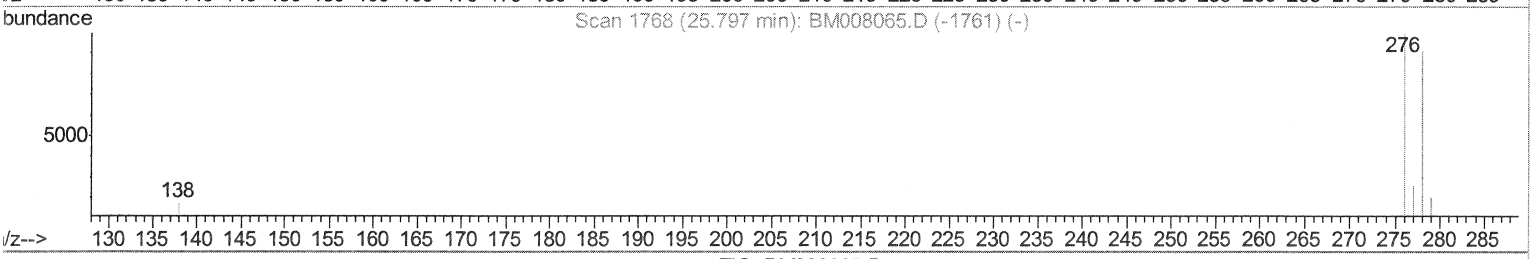
Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM







TIC: BM008085.D

(25) Dibenzo(a,h)anthracene

25.779min (-0.017) 0.11ng/ul m SJ 11/29/16

response 762

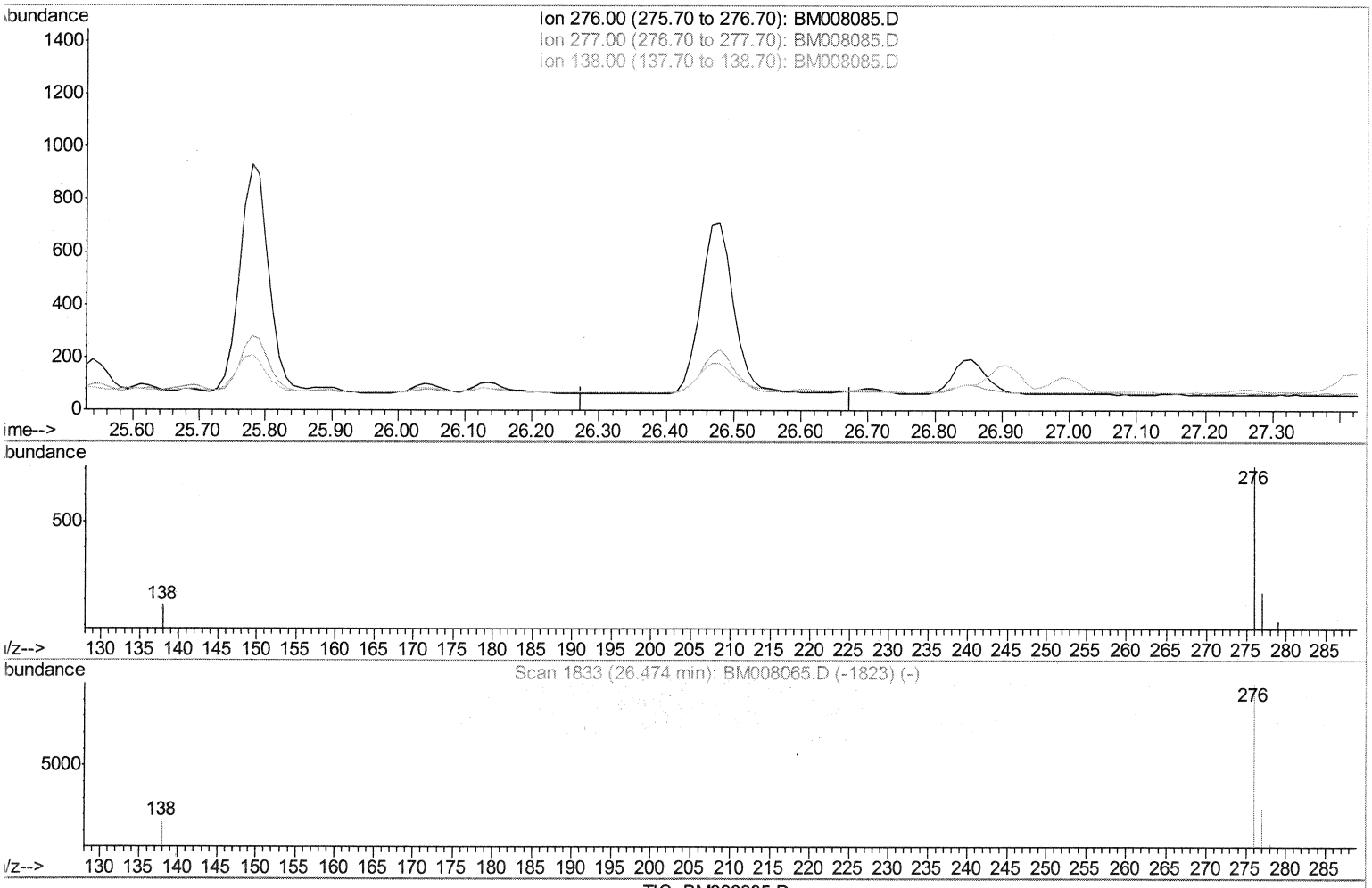
Ion	Exp%	Act%
278.00	100	100
139.00	21.70	44.11#
279.00	32.40	60.84#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM



TIC: BM008085.D

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

26.474min (-26.474) 0.00ng/ul

response 0

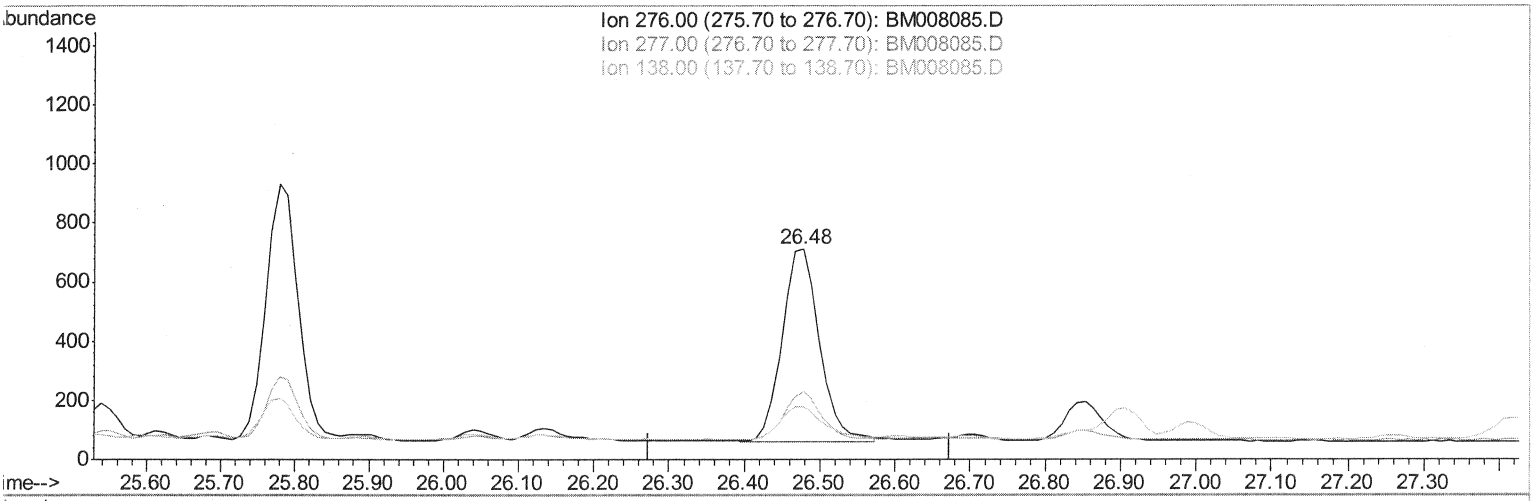
Ion	Exp%	Act%
276.00	100	0.00
277.00	27.30	0.00#
138.00	25.60	0.00#
0.00	0.00	0.00

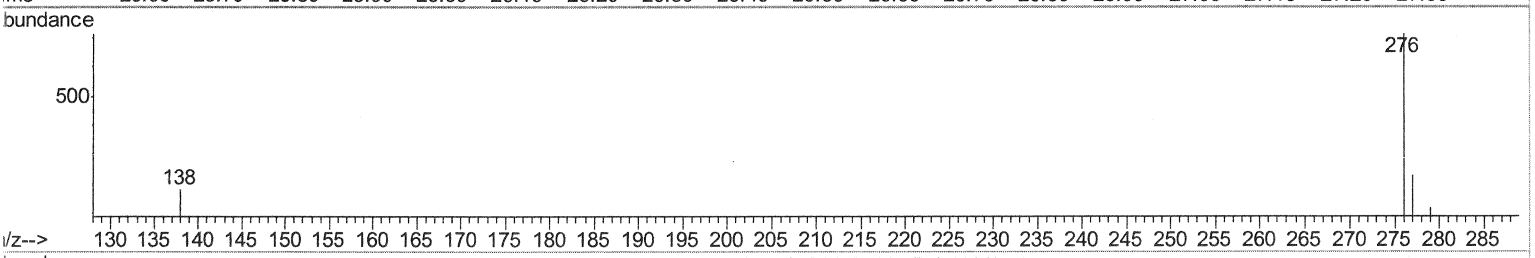
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

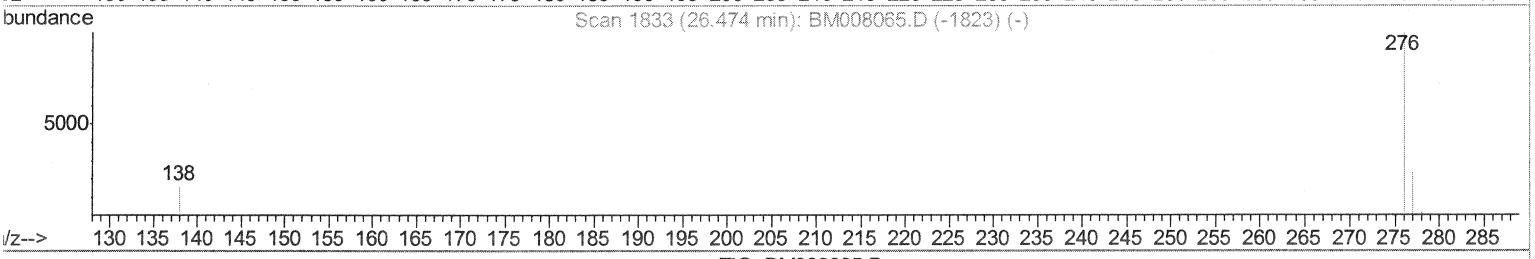
Quant Time: Nov 28 15:28:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM







TIC: BM008085.D

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

26.478min (+0.003) 0.30ng/ul m SJ 11/29/16

response 2249

Ion	Exp%	Act%
276.00	100	100
277.00	27.30	32.16
138.00	25.60	25.28
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008085.D
Acq On : 28 Nov 2016 14:16
Operator : UM/SJ
Sample : H5701-24
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 15:31:36 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 28 14:45:16 2016
Response via : Initial Calibration

Instrument : BNA_M
ClientSampleId : A4WG2

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:33 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	506	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.49	136	1697	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.35	164	1026	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.09	188	2251m	0.40	ng/ul	-0.02
16) Chrysene-d12	21.29	240	2146	0.40	ng/ul	0.00
20) Perylene-d12	23.53	264	1819m	0.40	ng/ul	0.00
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.10	152	640	0.27	ng/ul	0.00
14) Fluoranthene-d10	19.13	212	1552	0.24	ng/ul	0.00
Target Compounds						Qvalue
3) Naphthalene	10.54	128	136	0.03	ng/ul#	24
7) Acenaphthylene	14.06	152	385	0.08	ng/ul#	70
8) Acenaphthene	14.40	153	154	0.04	ng/ul#	90
9) Fluorene	15.39	166	246	0.06	ng/ul#	77
12) Phenanthrene	17.12	178	3530	0.50	ng/ul	99
13) Anthracene	17.23	178	1214	0.18	ng/ul#	88
15) Fluoranthene	19.16	202	7951	0.88	ng/ul	95
17) Pyrene	19.52	202	7298	0.98	ng/ul	96
18) Benzo(a)anthracene	21.28	228	4005	0.61	ng/ul	96
19) Chrysene	21.33	228	3948	0.48	ng/ul	95
21) Benzo(b)fluoranthene	22.85	252	5621m	0.77	ng/ul	
22) Benzo(k)fluoranthene	22.89	252	2065m	0.28	ng/ul	
23) Benzo(a)pyrene	23.42	252	3821m	0.56	ng/ul	
24) Indeno(1,2,3-cd)pyrene	25.78	276	2669m	0.32	ng/ul	
25) Dibenzo(a,h)anthracene	25.78	278	762m	0.11	ng/ul	
26) Benzo(g,h,i)perylene	26.48	276	2249m	0.30	ng/ul	

SJ 11/29/16

SJ 11/29/16

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