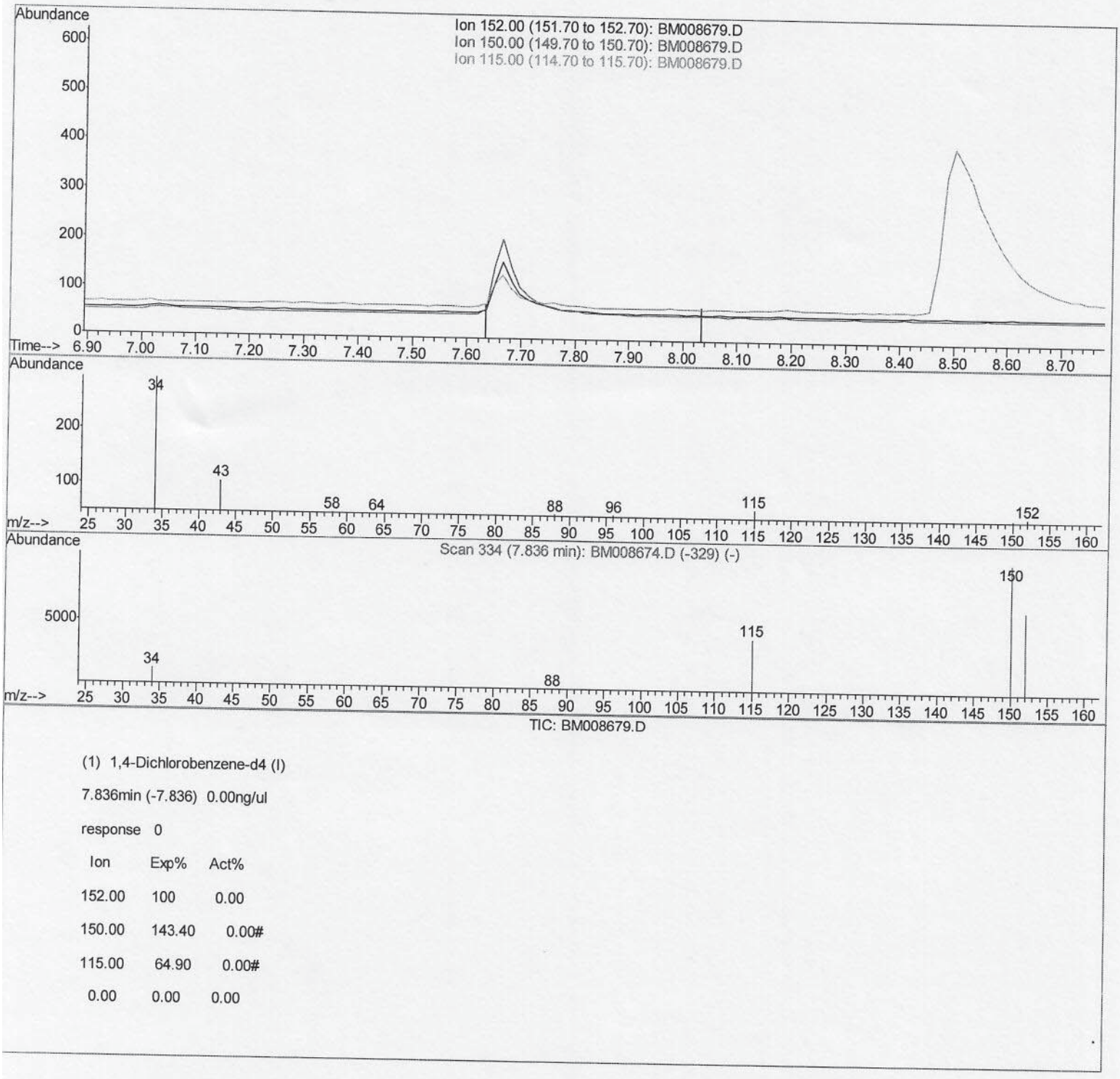
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 03:27:53 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM



(1) 1,4-Dichlorobenzene-d4 (I)

7.836min (-7.836) 0.00ng/ul

response 0

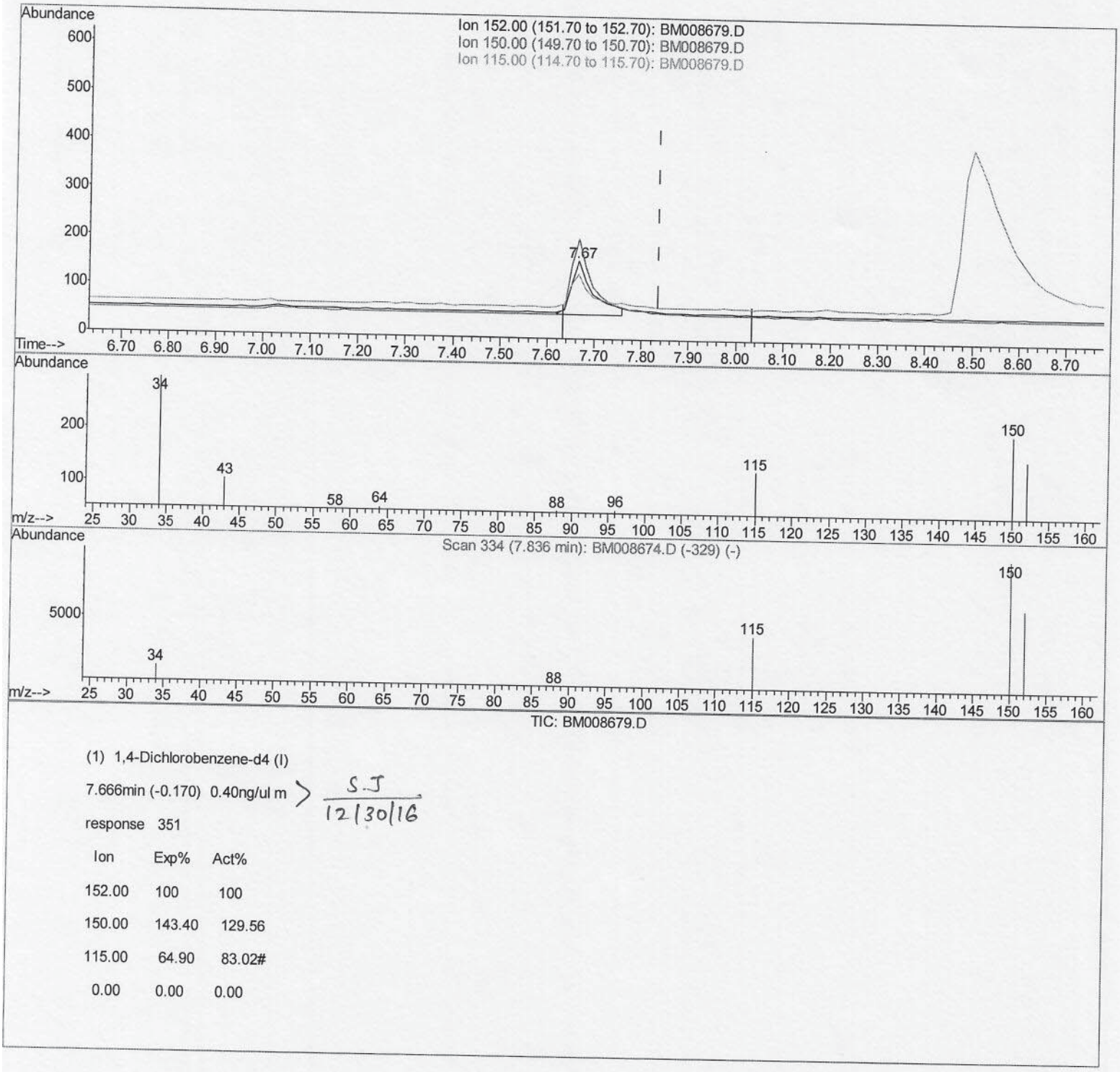
Ion	Exp%	Act%
152.00	100	0.00
150.00	143.40	0.00#
115.00	64.90	0.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 03:27:53 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM



TIC: BM008679.D

(1) 1,4-Dichlorobenzene-d4 (I)

7.666min (-0.170) 0.40ng/ul m > S.J 12/30/16

response 351

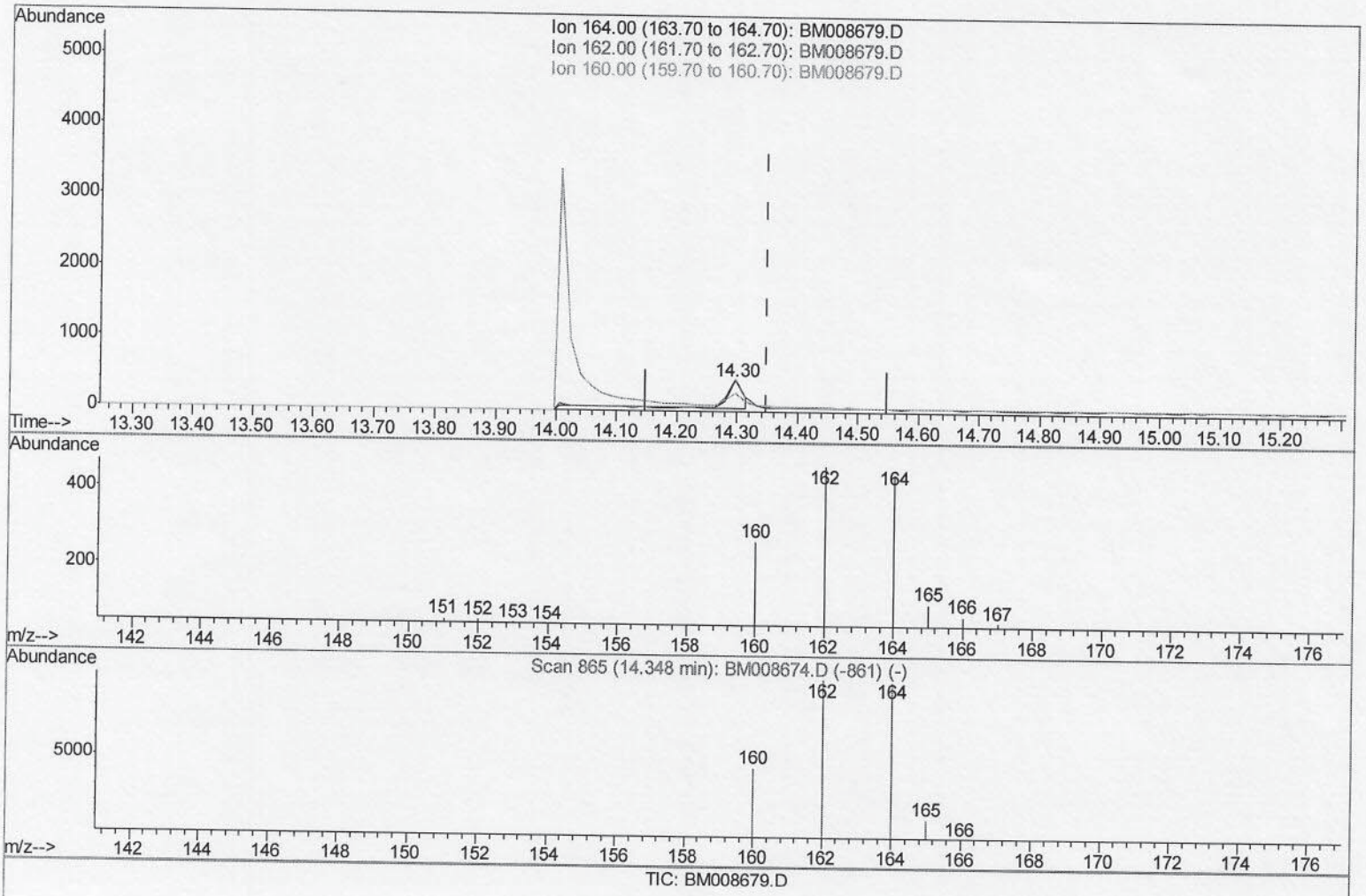
Ion	Exp%	Act%
152.00	100	100
150.00	143.40	129.56
115.00	64.90	83.02#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 03:27:53 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM



TIC: BM008679.D

(6) Acenaphthene-d10 (I)

14.297min (-0.051) 0.40ng/ul

response 653

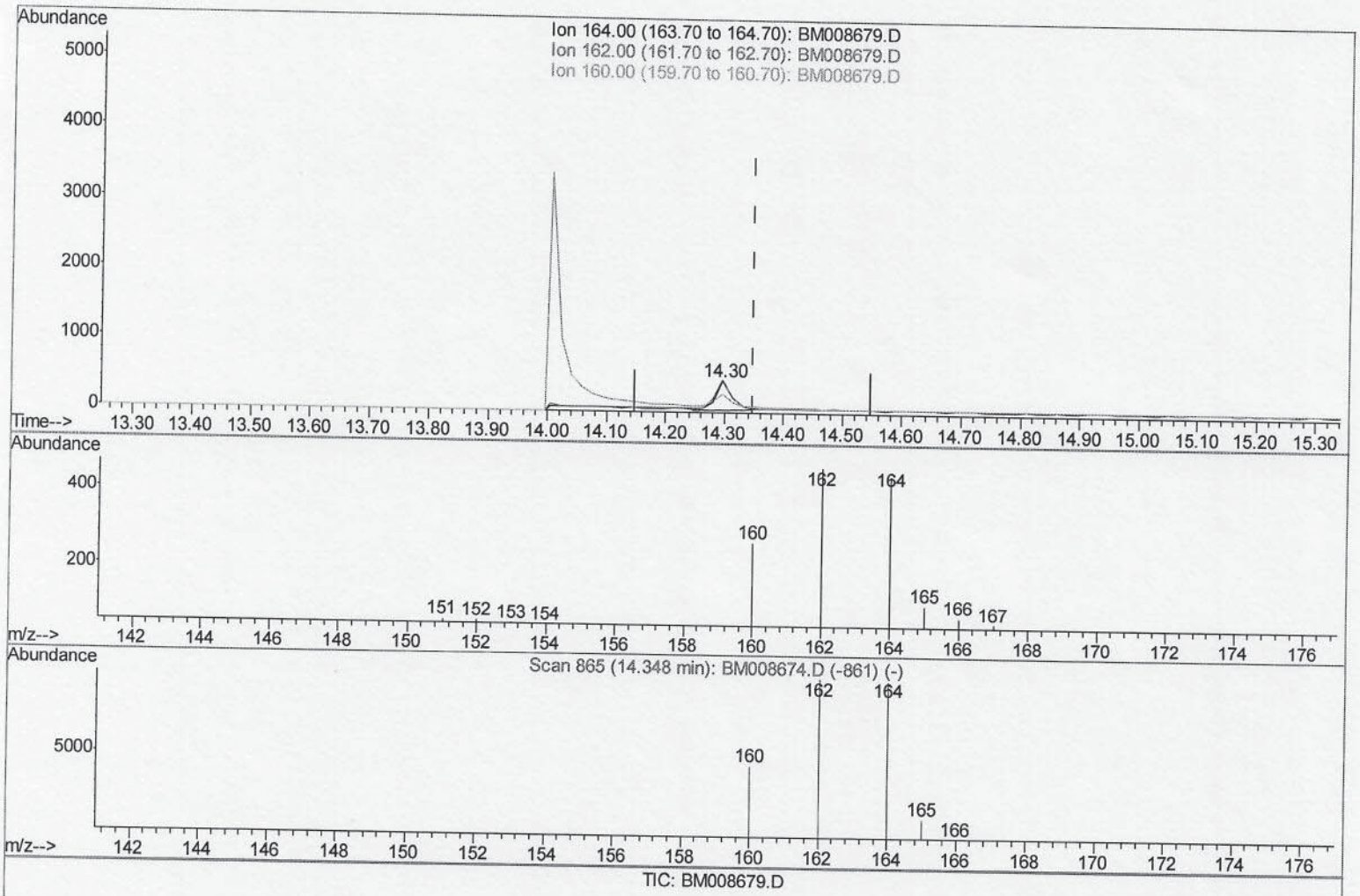
Ion	Exp%	Act%
164.00	100	100
162.00	98.60	104.71
160.00	48.80	60.54#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 03:27:53 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM



TIC: BM008679.D

(6) Acenaphthene-d10 (I)

14.297min (-0.051) 0.40ng/ul m > S.J 12/30/16

response 765

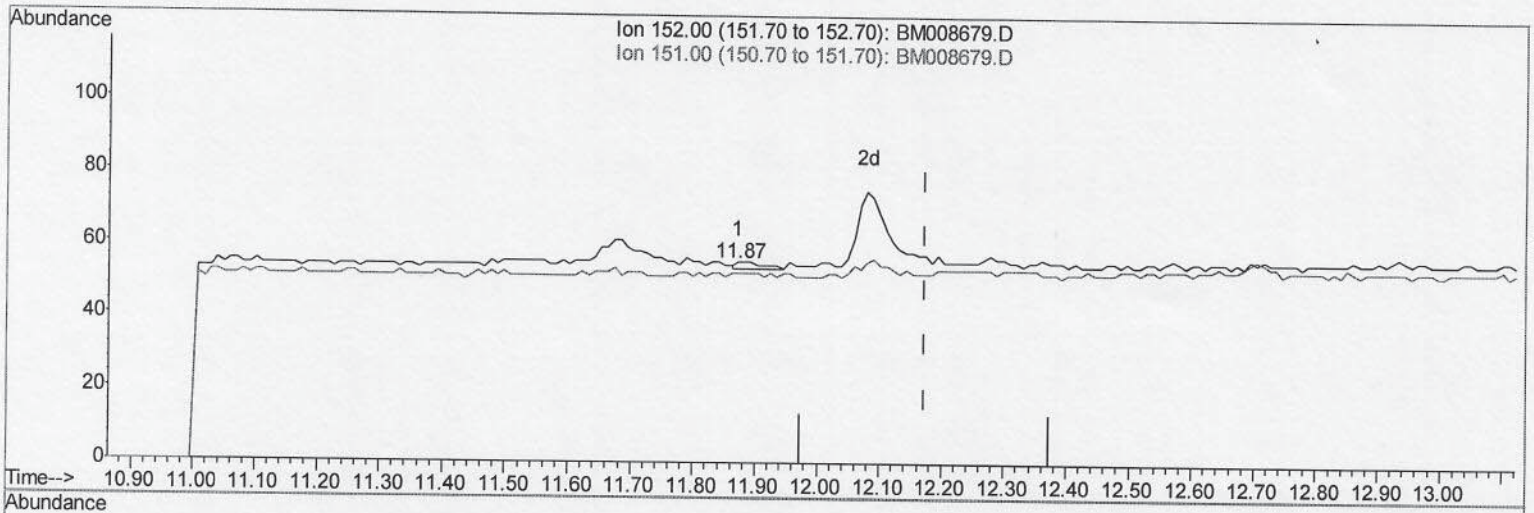
Ion	Exp%	Act%
164.00	100	100
162.00	98.60	104.71
160.00	48.80	60.54#
0.00	0.00	0.00

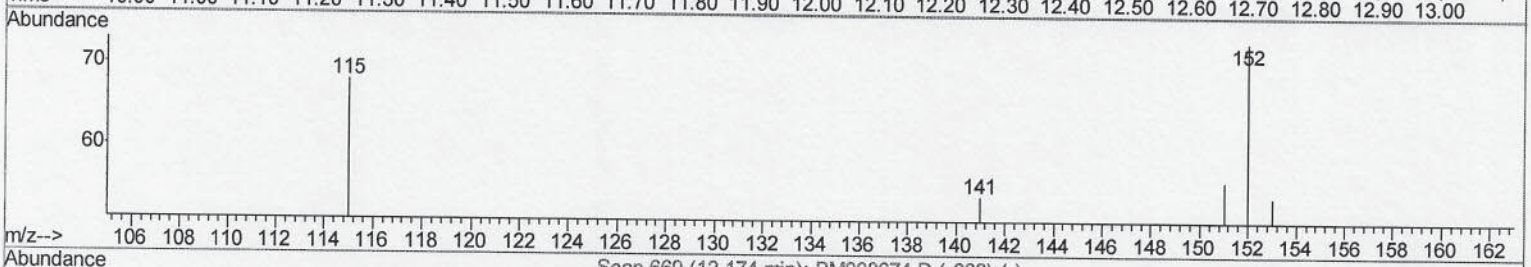
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

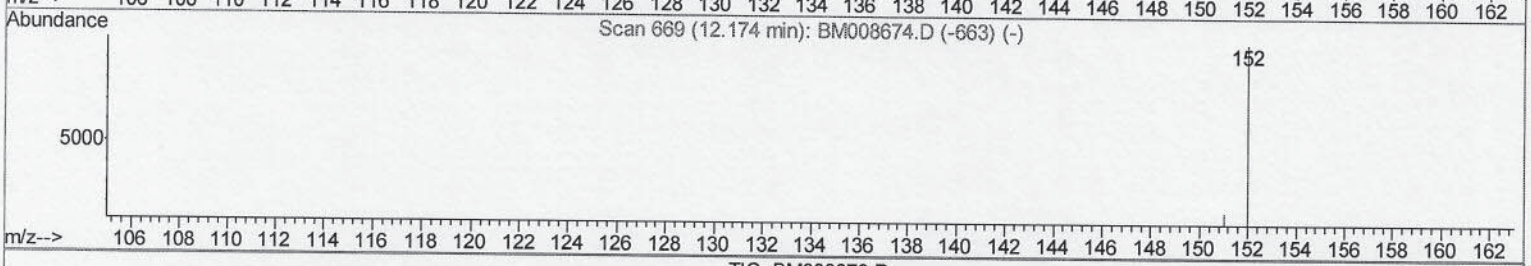
Quant Time: Dec 28 04:44:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM







TIC: BM008679.D

(4) 2-Methylnaphthalene-d10 (SURR)

11.872min (-0.302) 0.00ng/ul

response 6

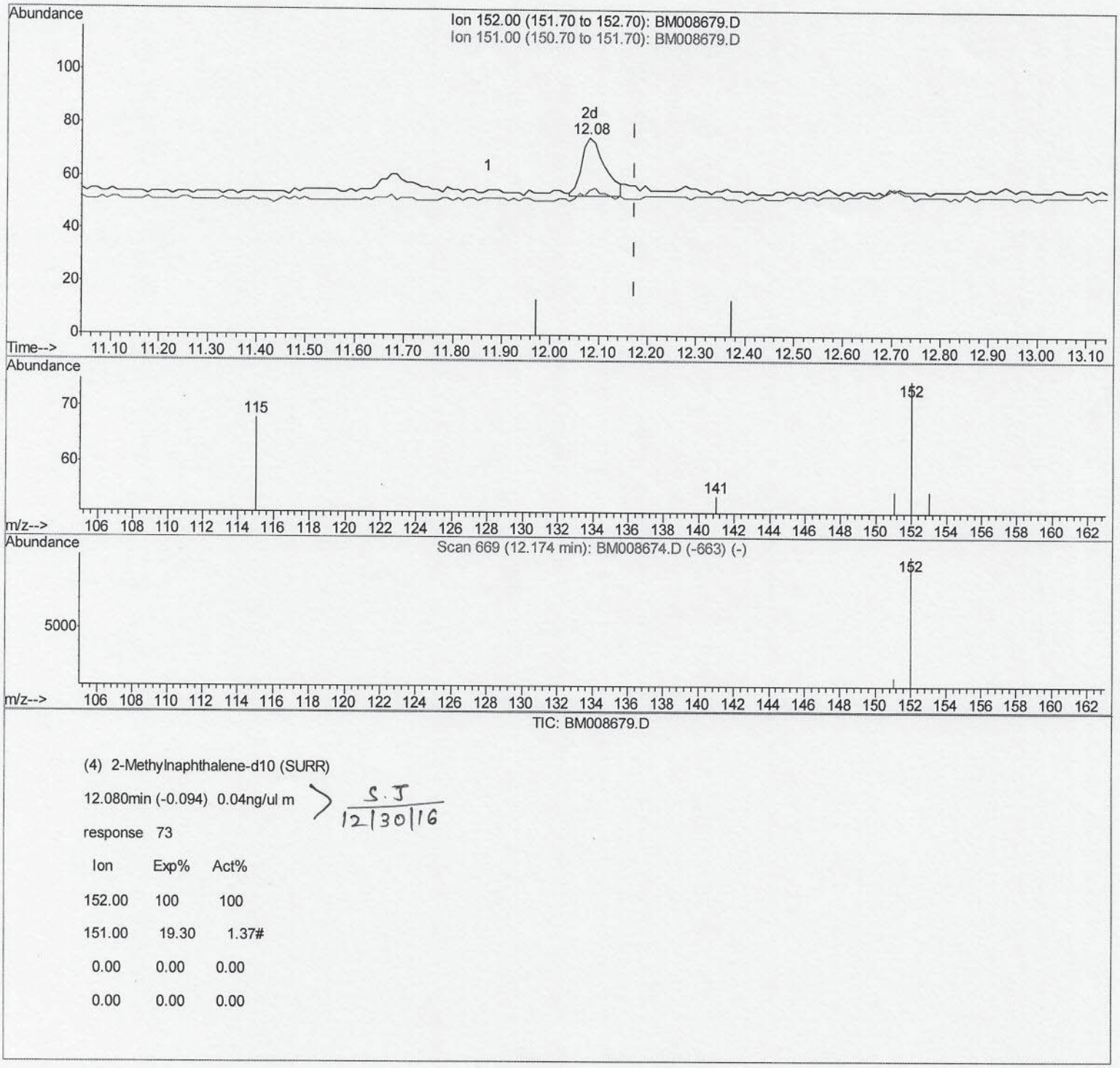
Ion	Exp%	Act%
152.00	100	100
151.00	19.30	16.67
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 04:44:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM



TIC: BM008679.D

(4) 2-Methylnaphthalene-d10 (SURR)

12.080min (-0.094) 0.04ng/ul m

response 73

S.J 12/30/16

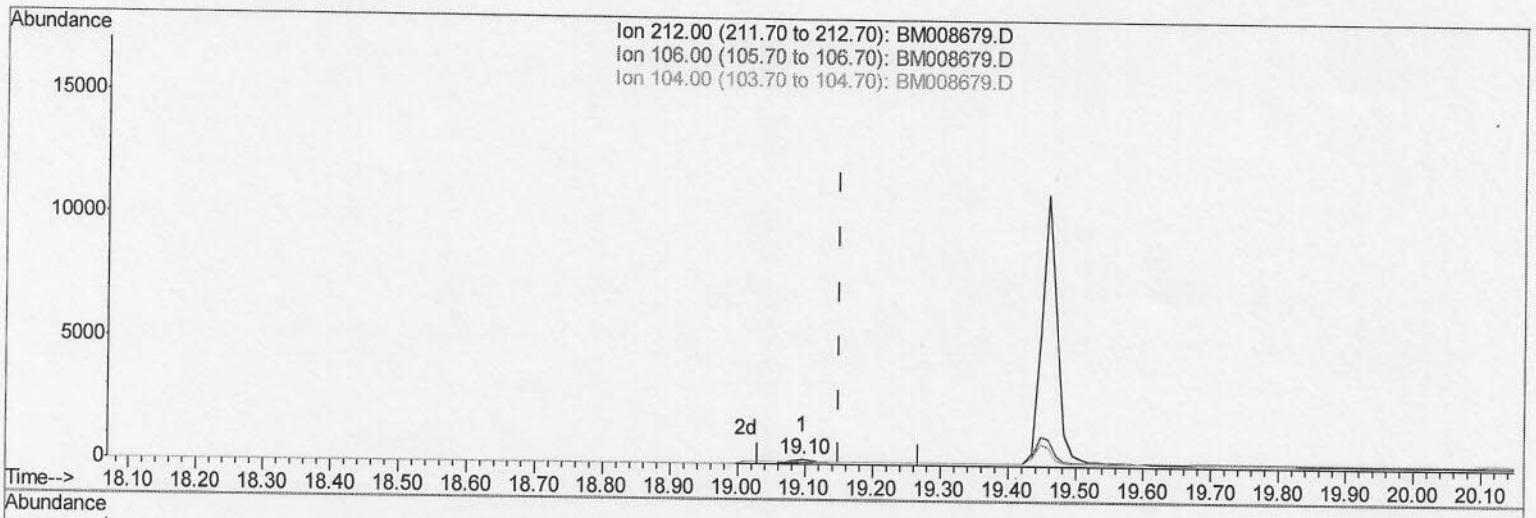
Ion	Exp%	Act%
152.00	100	100
151.00	19.30	1.37#
0.00	0.00	0.00
0.00	0.00	0.00

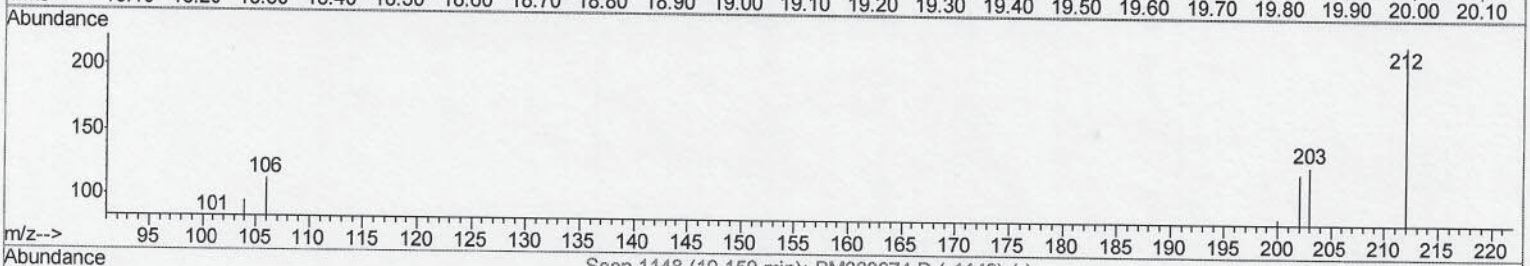
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

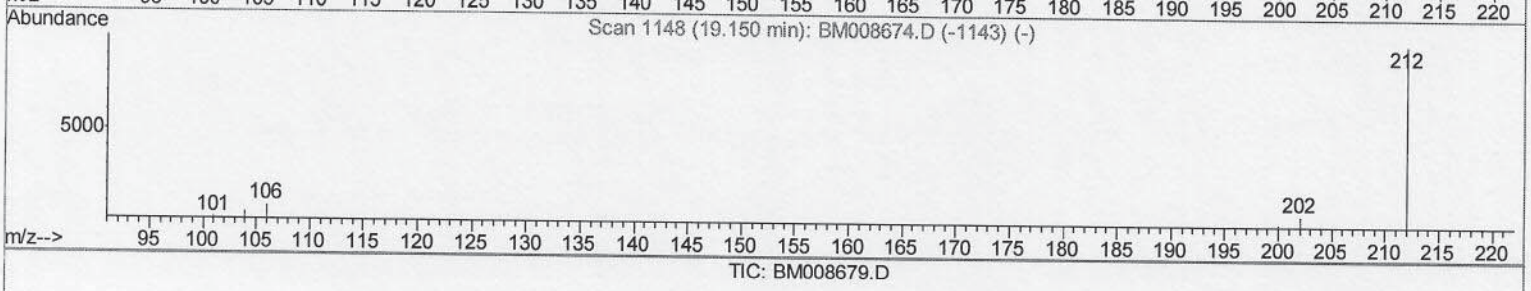
Quant Time: Dec 28 04:44:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM







TIC: BM008679.D

(14) Fluoranthene-d10 (SURR)

19.096min (-0.053) 0.09ng/ul

response 342

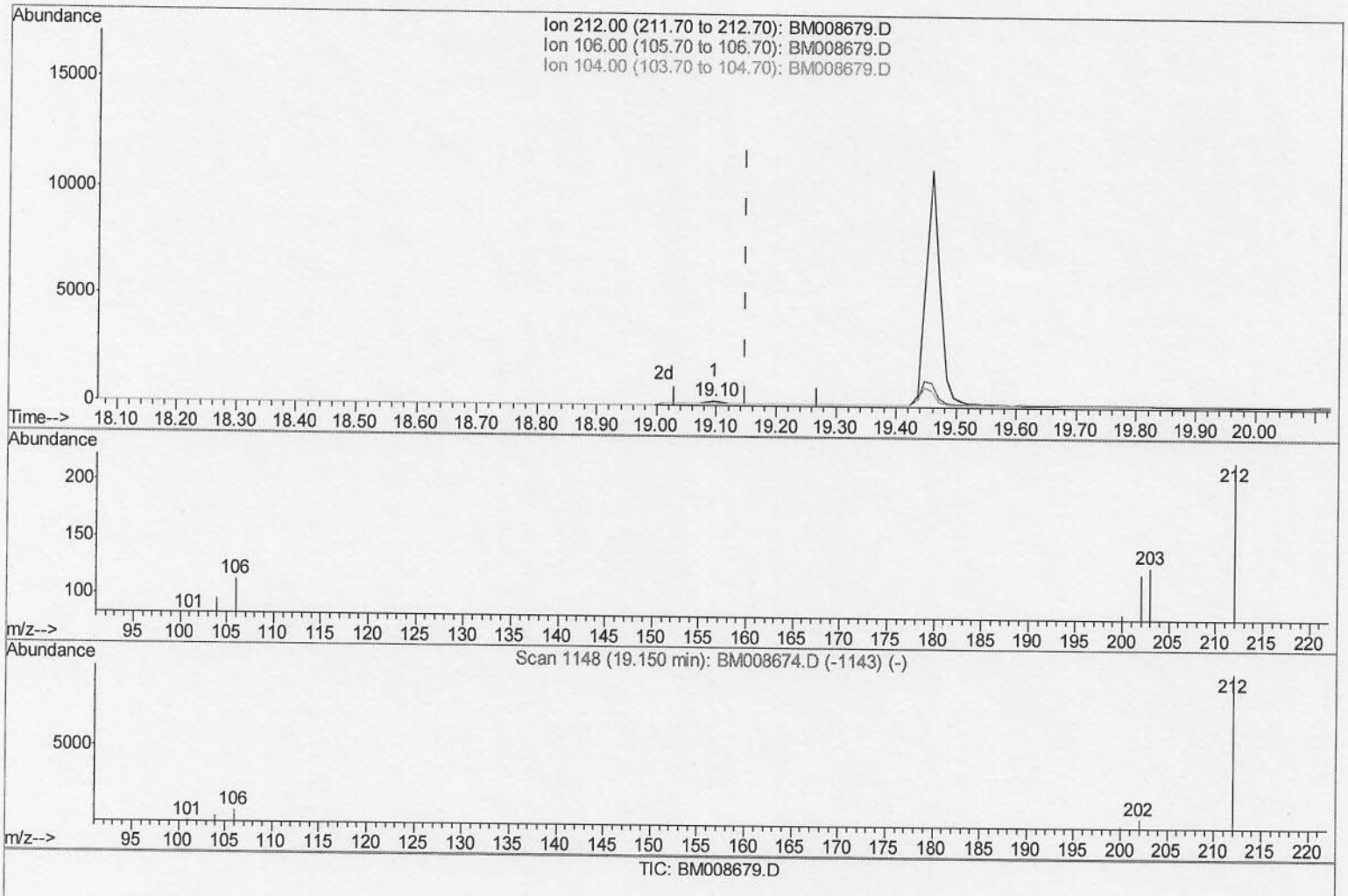
Ion	Exp%	Act%
212.00	100	100
106.00	18.30	244.44#
104.00	15.60	232.16#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 04:44:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM



(14) Fluoranthene-d10 (SURR)

19.096min (-0.053) 0.06ng/ul m > S.J 12/30/16

response 222

Ion	Exp%	Act%
212.00	100	100
106.00	18.30	376.58#
104.00	15.60	357.66#
0.00	0.00	0.00

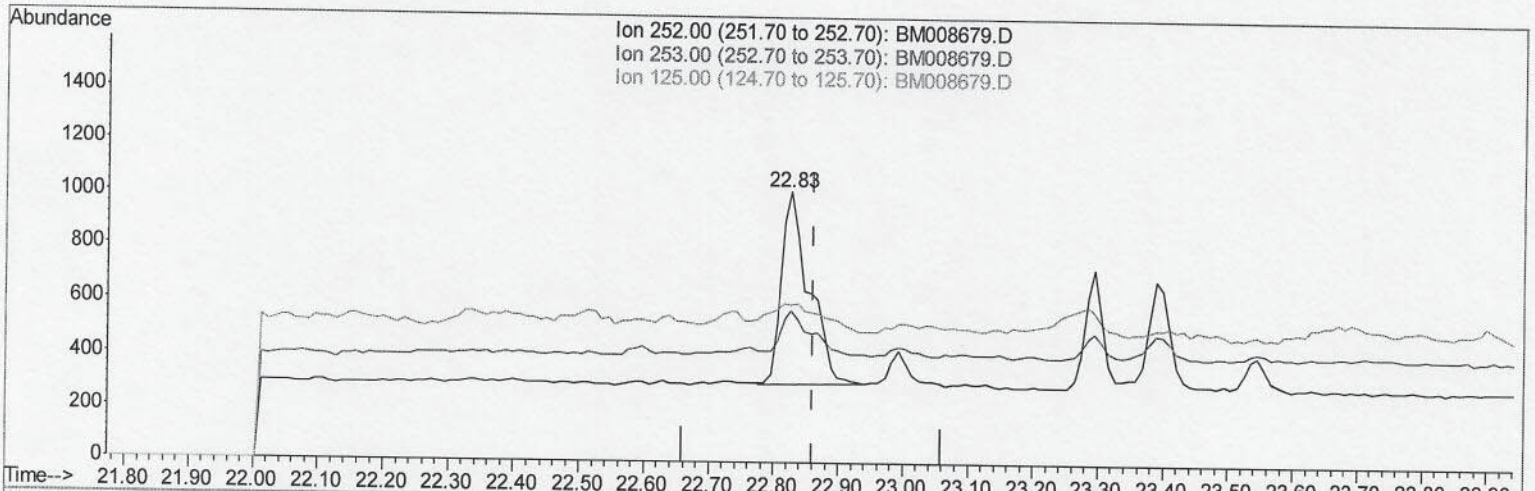
Integration Report (Qedit)

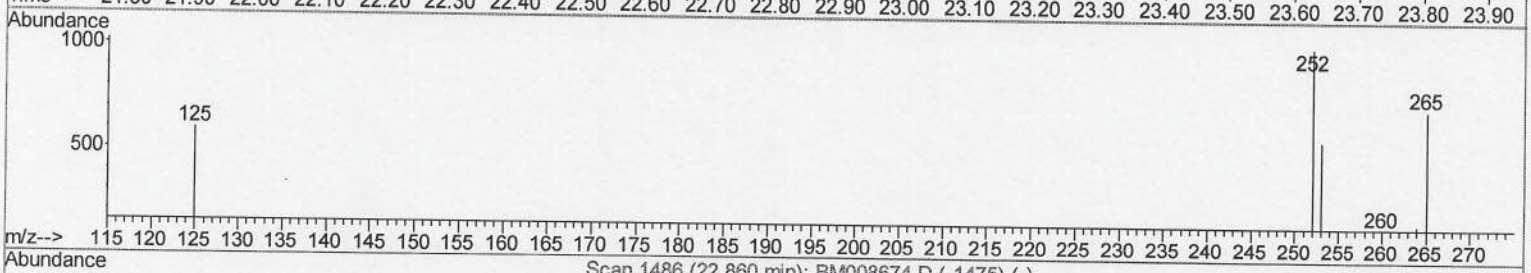
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

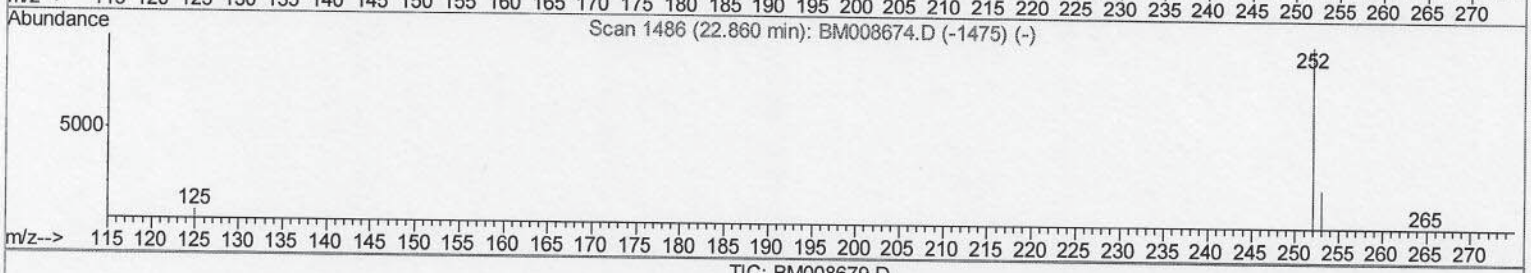
Quant Time: Dec 28 04:44:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM







TIC: BM008679.D

(21) Benzo(b)fluoranthene

22.826min (-0.035) 0.35ng/ul

response 2154

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	55.98
125.00	17.50	58.33#
0.00	0.00	0.00

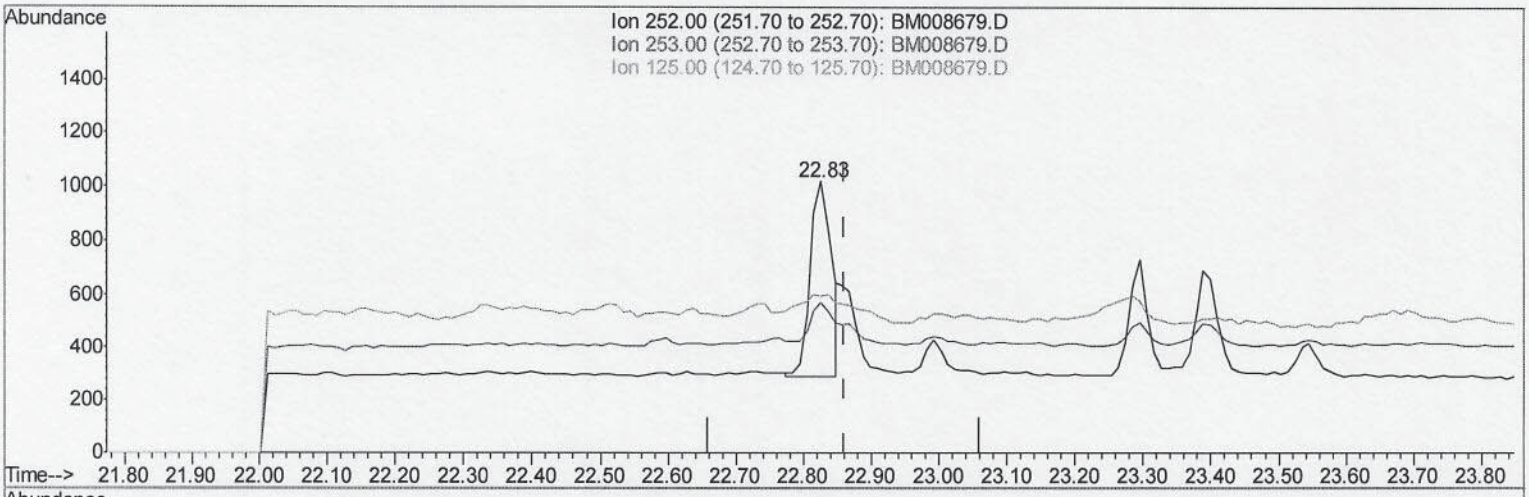
Quantitation Report (Qedit)

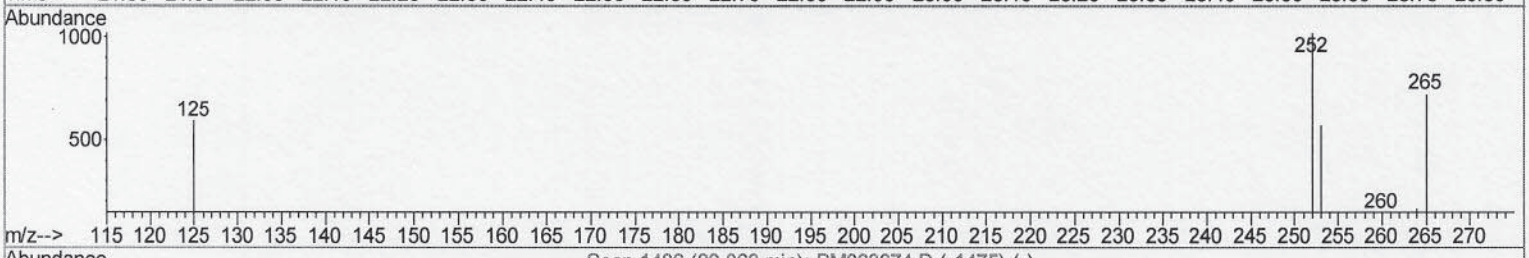
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

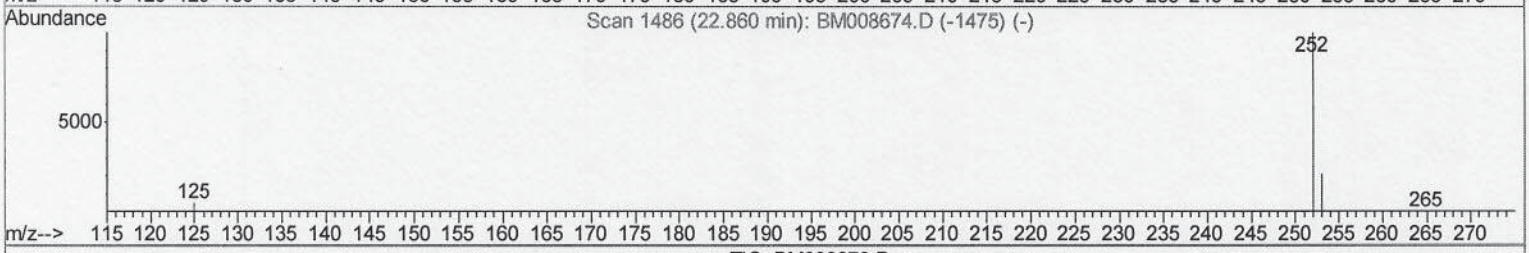
Quant Time: Dec 28 04:44:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM







TIC: BM008679.D

(21) Benzo(b)fluoranthene

22.826min (-0.035) 0.26ng/ul m

response 1605

S.J 12/30/16

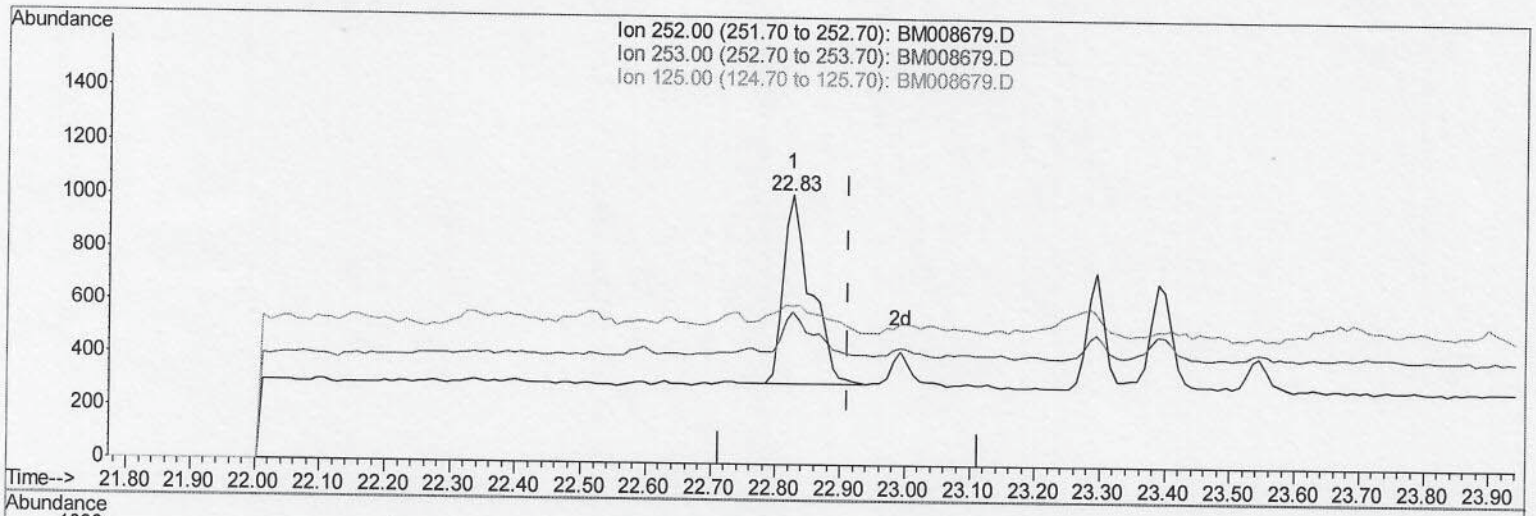
Ion	Exp%	Act%
252.00	100	100
253.00	32.10	55.98
125.00	17.50	58.33#
0.00	0.00	0.00

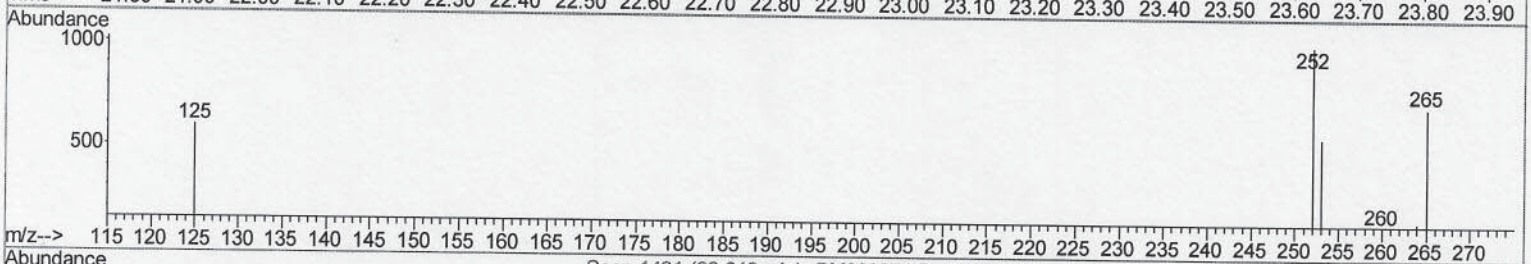
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

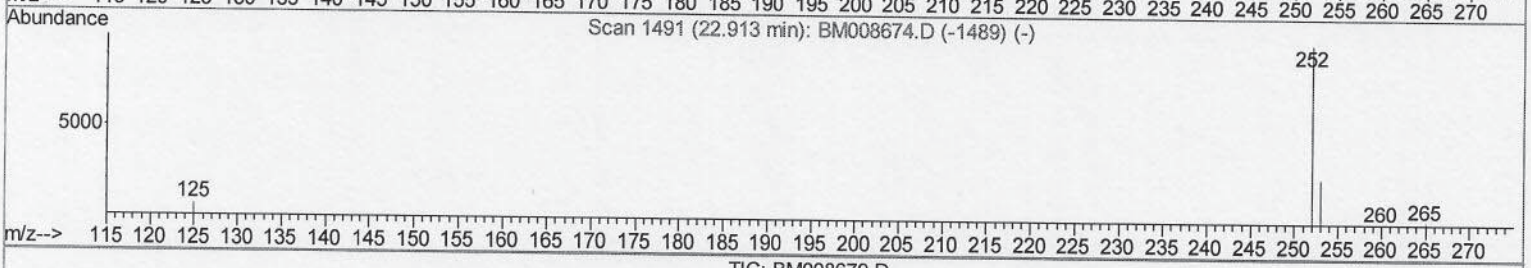
Quant Time: Dec 28 04:44:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM







TIC: BM008679.D

(22) Benzo(k)fluoranthene

22.826min (-0.087) 0.36ng/ul

response 2139

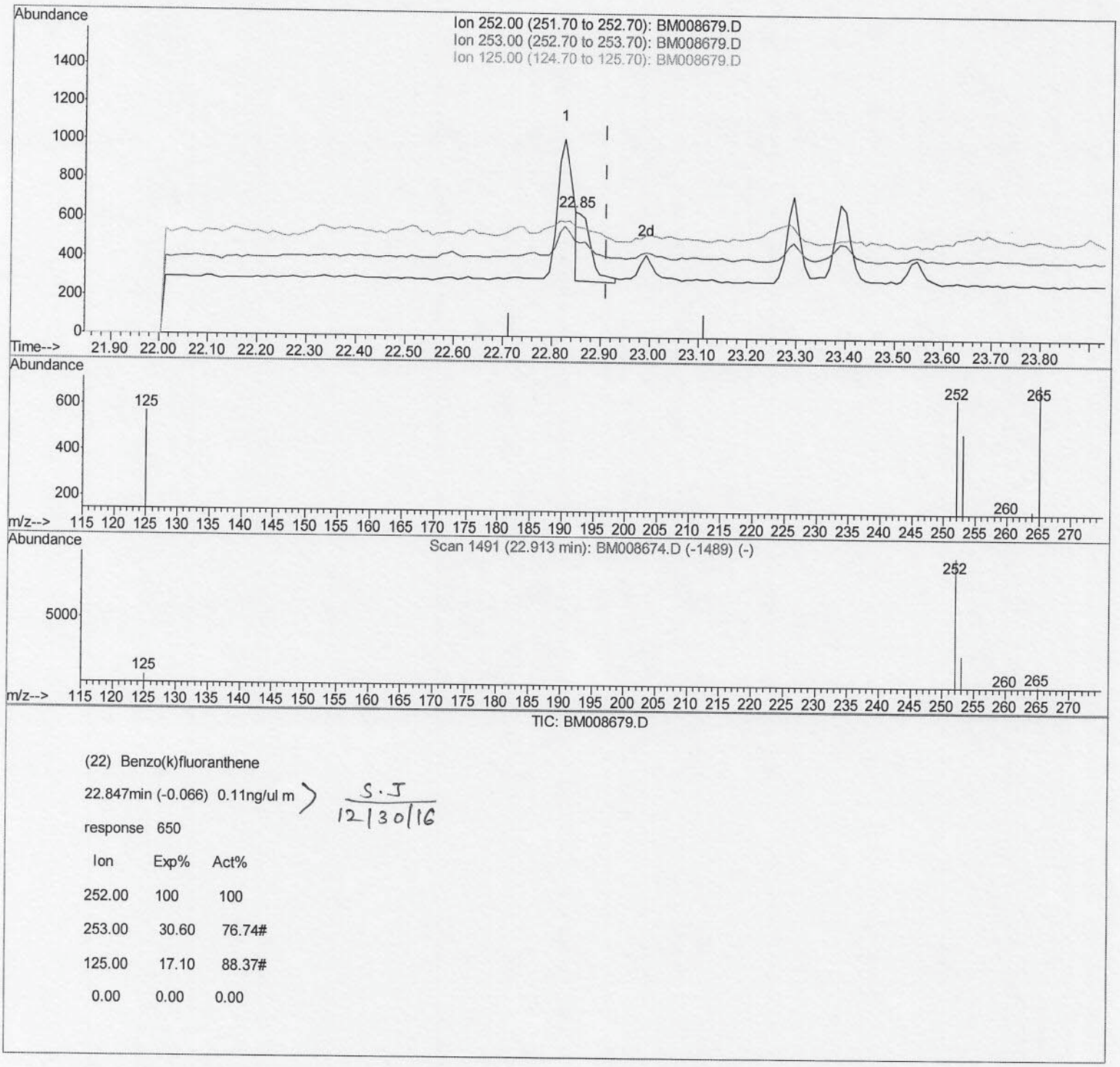
Ion	Exp%	Act%
252.00	100	100
253.00	30.60	55.98#
125.00	17.10	58.33#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 04:44:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM



(22) Benzo(k)fluoranthene

22.847min (-0.066) 0.11ng/ul m

response 650

S.J 12/30/16

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	76.74#
125.00	17.10	88.37#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 04:50:07 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument : BNA_M
ClientSampleId : DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) 1,4-Dichlorobenzene-d4	7.67	152	351m	0.40	ng/ul	-0.17	S.J 12/30/16
2) Naphthalene-d8	10.45	136	1198	0.40	ng/ul	-0.12	
6) Acenaphthene-d10	14.30	164	765m	0.40	ng/ul	-0.05	
10) Phenanthrene-d10	17.06	188	1351	0.40	ng/ul	-0.07	
16) Chrysene-d12	21.26	240	1639	0.40	ng/ul	-0.03	
20) Perylene-d12	23.49	264	1548	0.40	ng/ul	-0.04	
System Monitoring Compounds							
4) 2-Methylnaphthalene-d10	12.08	152	73m	0.04	ng/ul	-0.09	S.J 12/30/16
14) Fluoranthene-d10	19.10	212	222m	0.06	ng/ul	-0.05	
Target Compounds						Qvalue	
15) Fluoranthene	19.12	202	985	0.19	ng/ul	67	
17) Pyrene	19.48	202	1117	0.18	ng/ul#	75	
18) Benzo(a)anthracene	21.25	228	1004	0.19	ng/ul#	28	
19) Chrysene	21.30	228	575	0.10	ng/ul#	23	
21) Benzo(b)fluoranthene	22.83	252	1605m	0.26	ng/ul		S.J 12/30/16
22) Benzo(k)fluoranthene	22.85	252	650m	0.11	ng/ul		
23) Benzo(a)pyrene	23.39	252	894	0.16	ng/ul#	22	
24) Indeno(1,2,3-cd)pyrene	25.76	276	811	0.12	ng/ul	97	
26) Benzo(g,h,i)perylene	26.44	276	732	0.13	ng/ul#	31	

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

(QF Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\
Data File : BM008679.D
Acq On : 27 Dec 2016 18:37
Operator : UM/SJ
Sample : H6069-01DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 28 04:50:07 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:24:04 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H7DL

Manual Integrations APPROVED
sohil
12/28/2016 9:50:27 AM