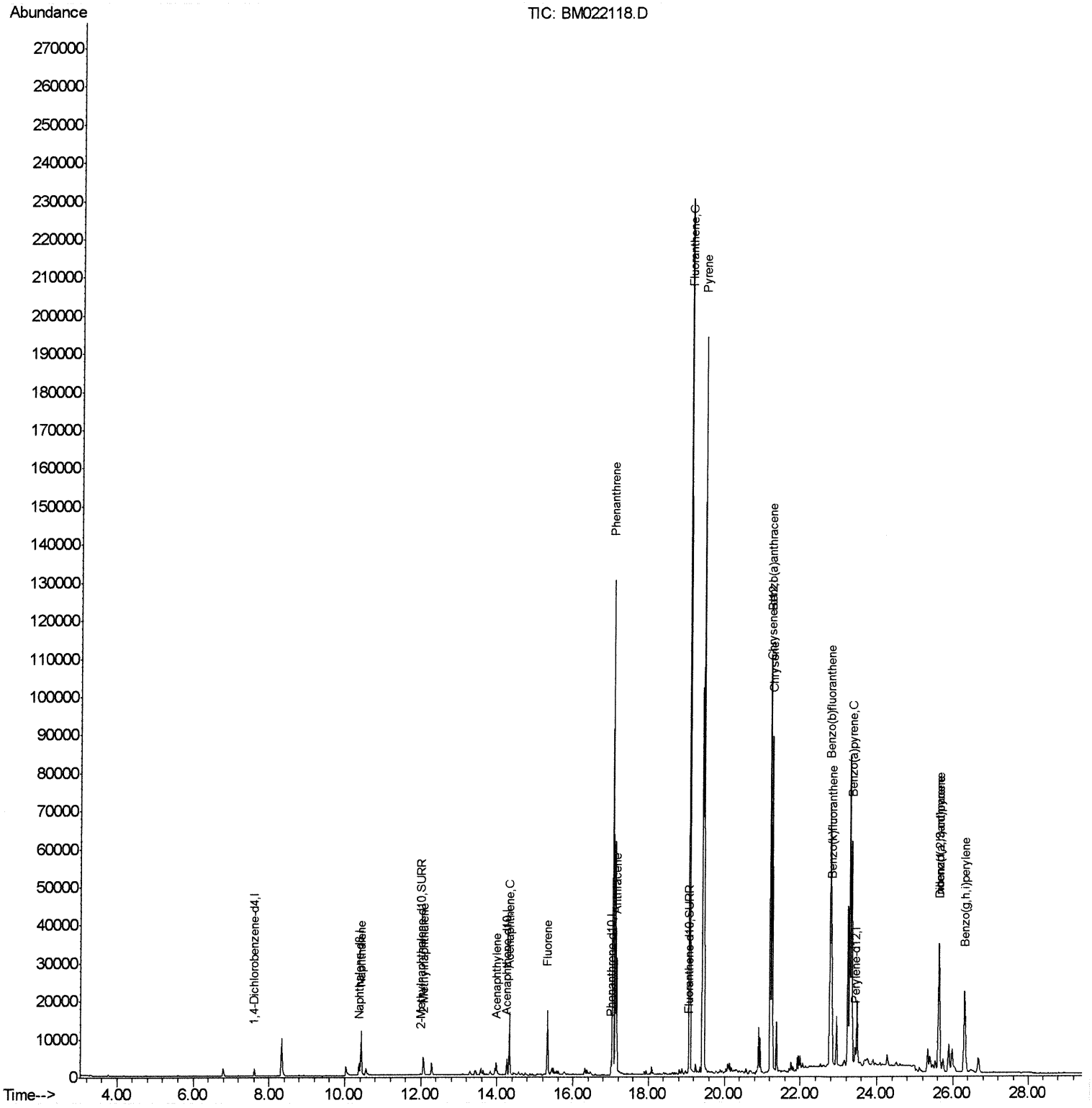
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022118.D
Acq On : 14 Aug 2019 21:16
Operator : HP/JU
Sample : K4304-04DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 15 11:15:13 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 :
CB5N5DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:36 PM

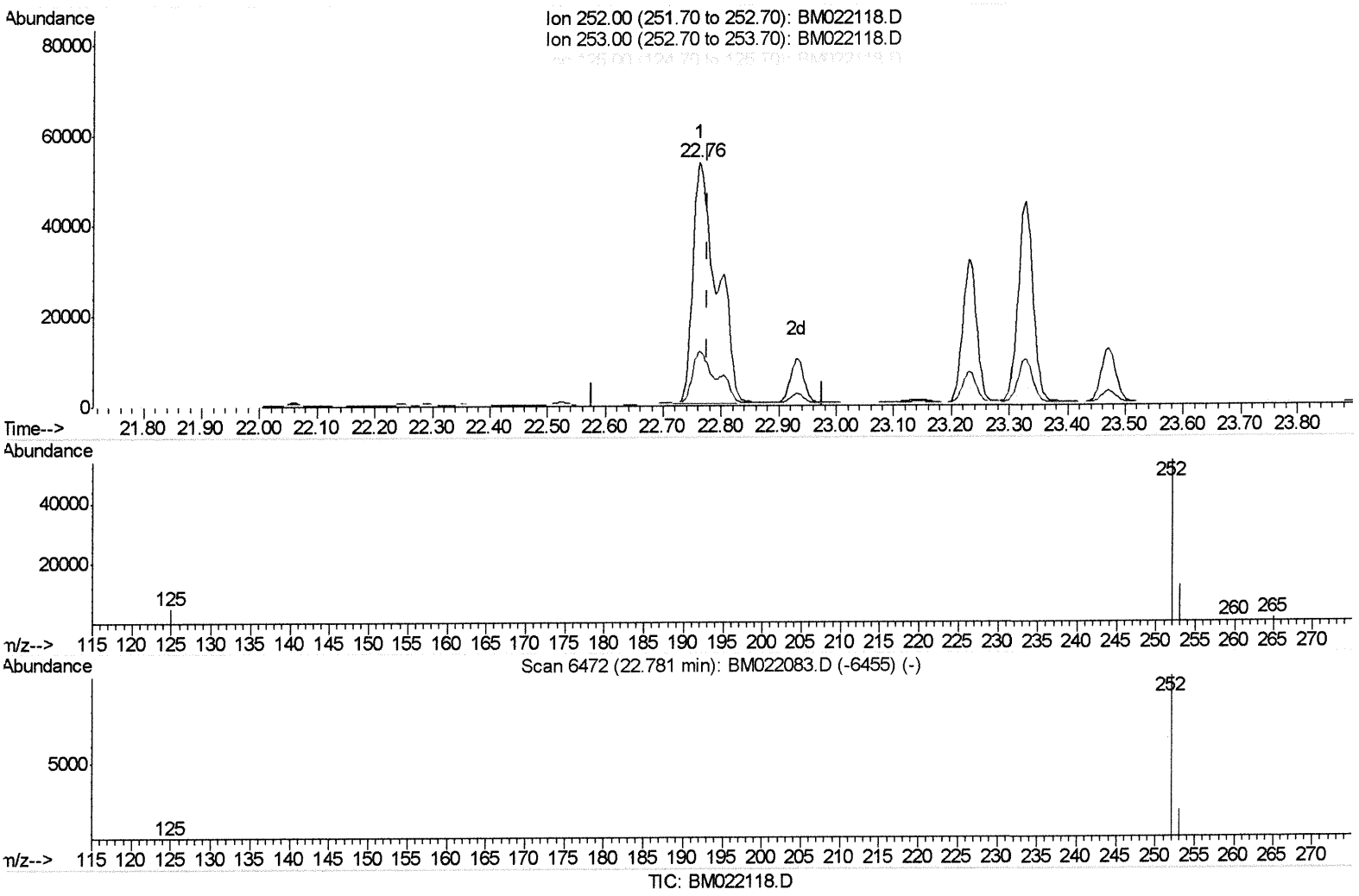


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022118.D
Acq On : 14 Aug 2019 21:16
Operator : HP/JU
Sample : K4304-04DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 15 11:14:01 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 :
CB5N5DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:36 PM



TIC: BM022118.D

(21) Benzo(b)fluoranthene

22.762min (-0.015) 9.29ng/ul

response 156825

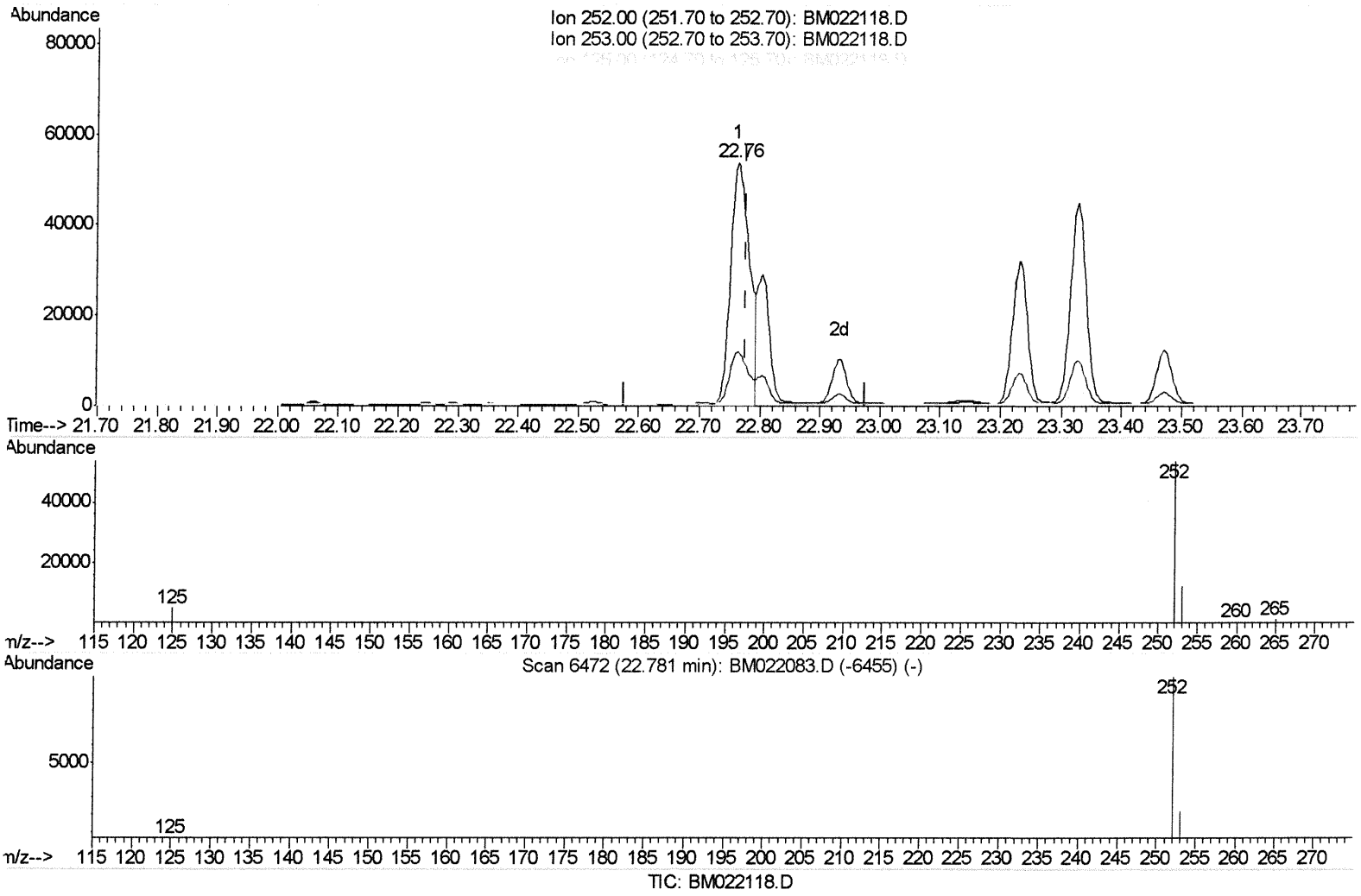
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	22.48
125.00	15.50	8.87
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022118.D
Acq On : 14 Aug 2019 21:16
Operator : HP/JU
Sample : K4304-04DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 15 11:14:01 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 :
CB5N5DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:36 PM



(21) Benzo(b)fluoranthene JU 08/15/19

22.762min (-0.015) 6.87ng/ul m

response 115977

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	22.48
125.00	15.50	8.87
0.00	0.00	0.00

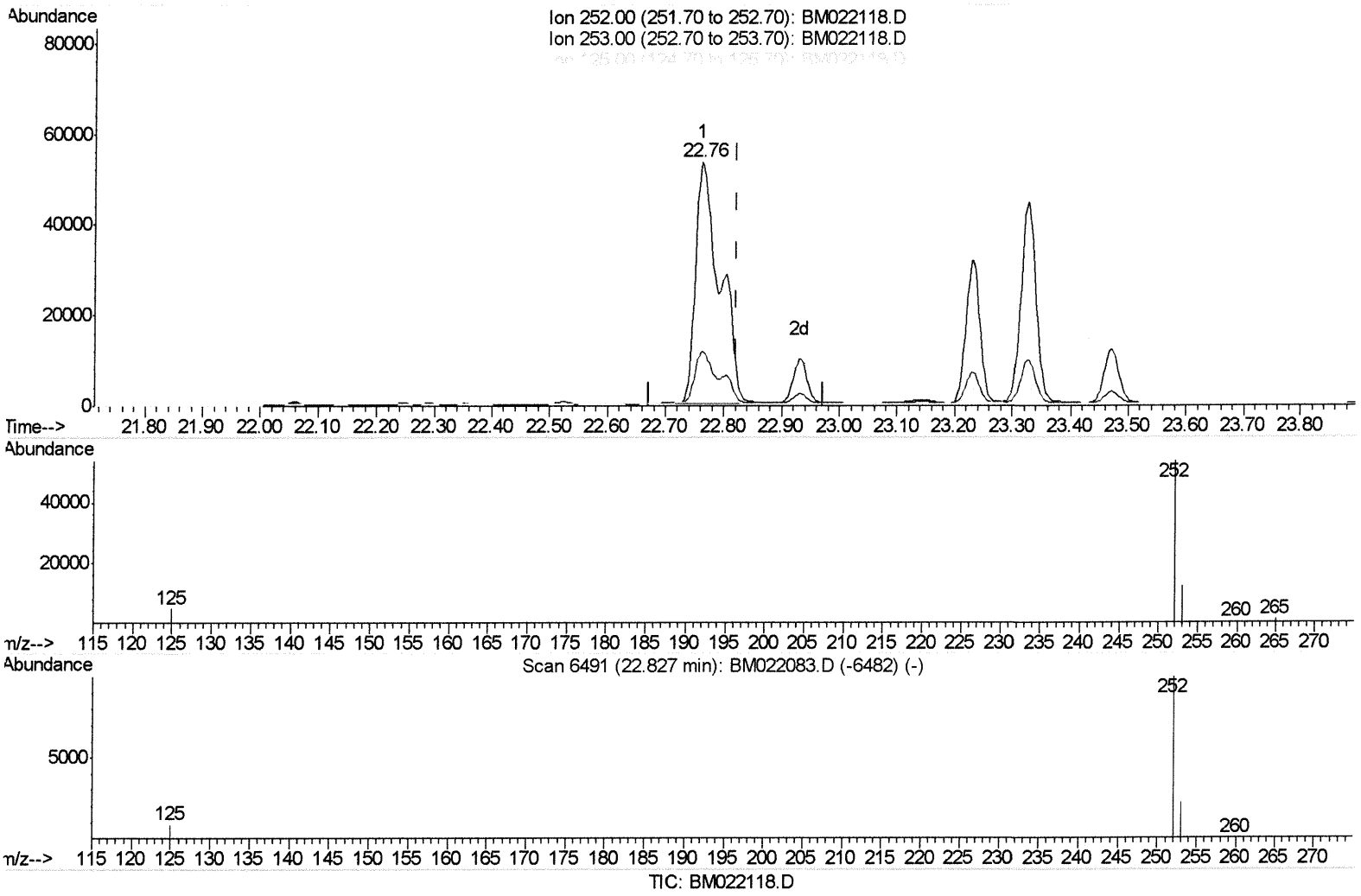
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022118.D
Acq On : 14 Aug 2019 21:16
Operator : HP/JU
Sample : K4304-04DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 15 11:14:01 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 :
CB5N5DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:36 PM



TIC: BM022118.D

(22) Benzo(k)fluoranthene

22.762min (-0.061) 8.21ng/ul

response 156825

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	22.48#
125.00	15.20	8.87#
0.00	0.00	0.00

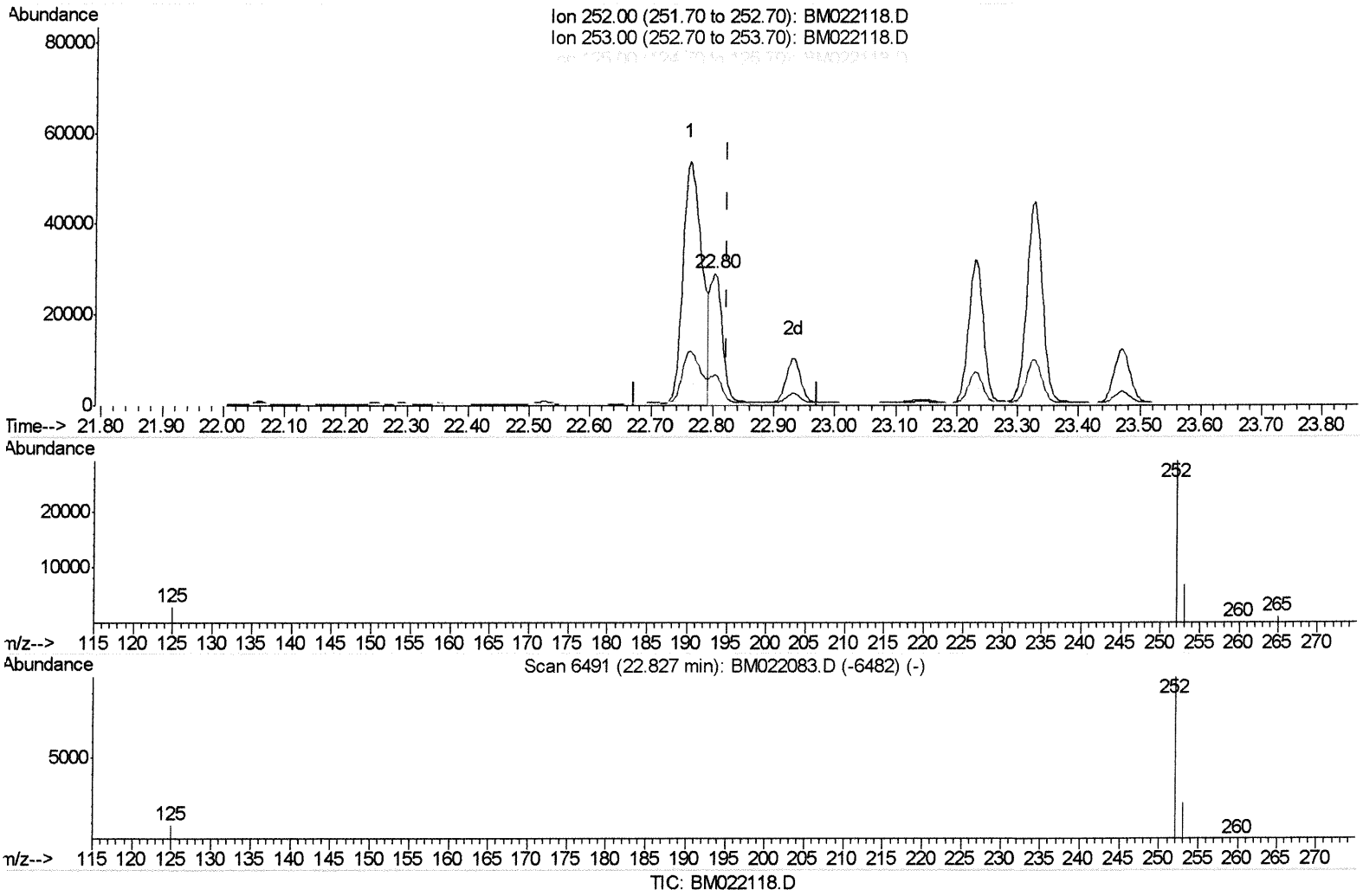
Quantitation Report (Qual)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022118.D
Acq On : 14 Aug 2019 21:16
Operator : HP/JU
Sample : K4304-04DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 15 11:14:01 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 :
CB5N5DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:36 PM



(22) Benzo(k)fluoranthene

22.803min (-0.019) 2.32ng/ul m JU 08/15/19

response 44276

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	23.52#
125.00	15.20	10.03#
0.00	0.00	0.00

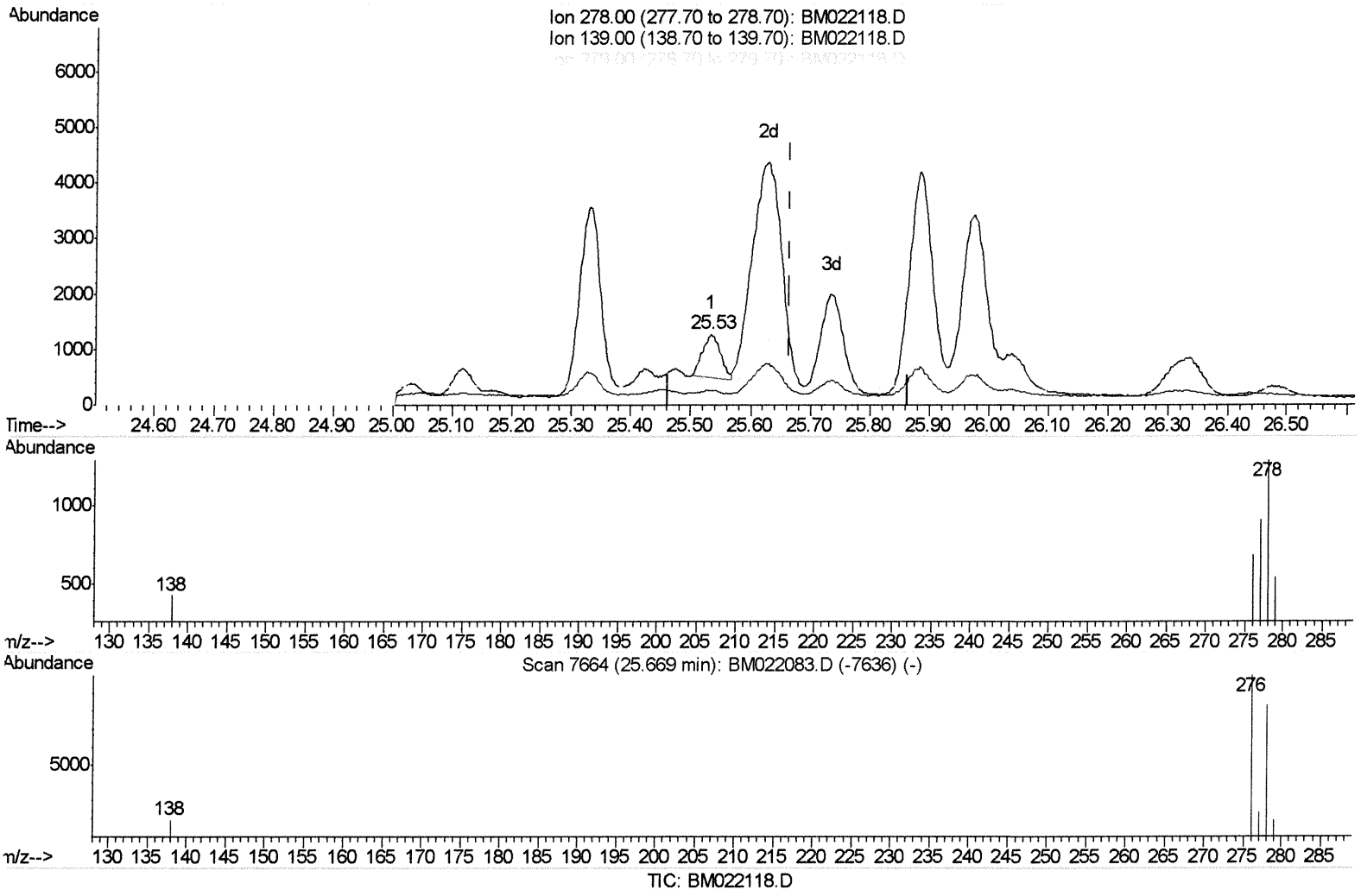
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022118.D
Acq On : 14 Aug 2019 21:16
Operator : HP/JU
Sample : K4304-04DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 15 11:14:01 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 :
CB5N5DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:36 PM



TIC: BM022118.D

(25) Dibenzo(a,h)anthracene

25.533min (-0.131) 0.10ng/ul

response 1635

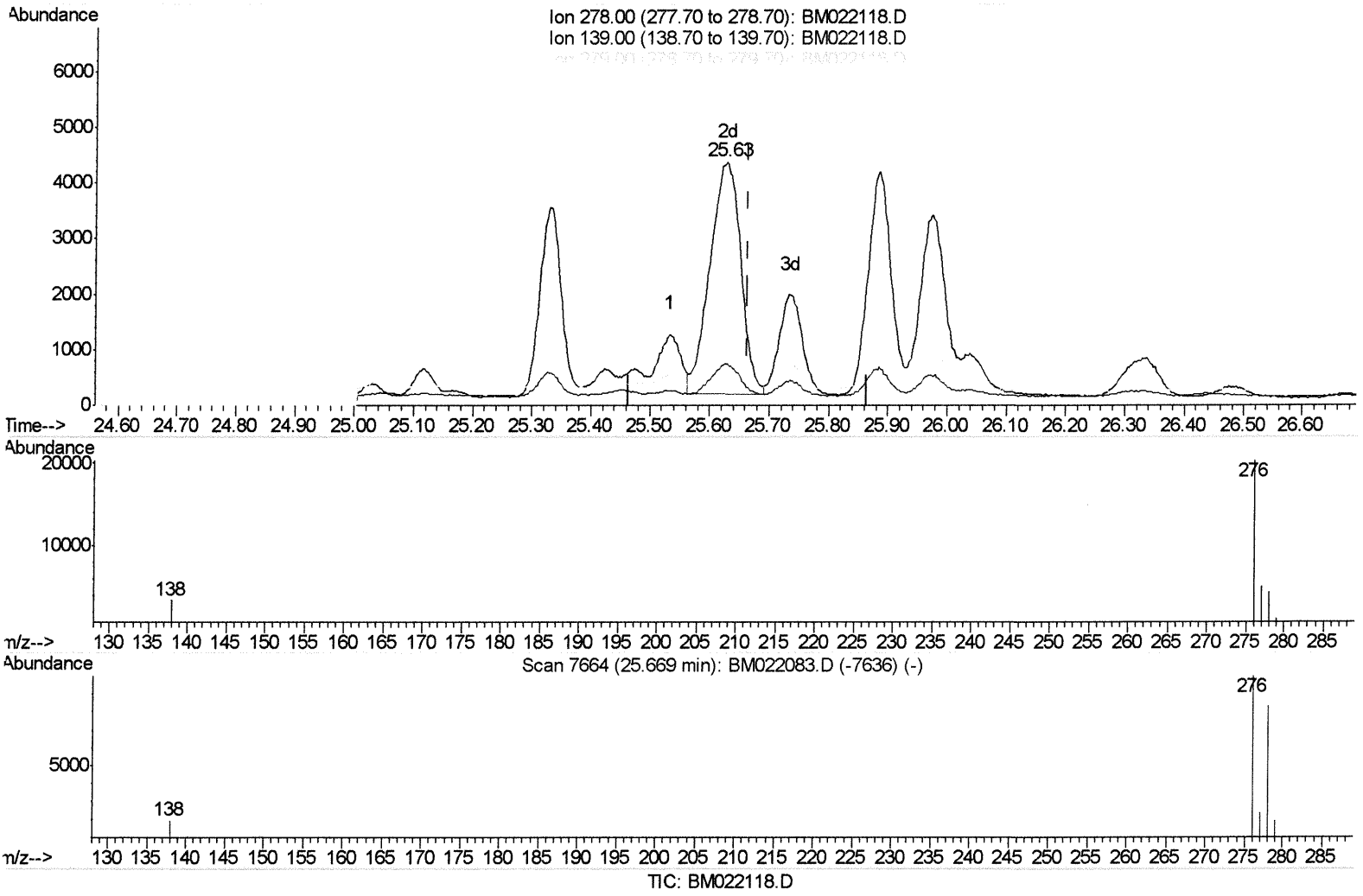
Ion	Exp%	Act%
278.00	100	100
139.00	17.70	20.58
279.00	35.40	42.40
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022118.D
Acq On : 14 Aug 2019 21:16
Operator : HP/JU
Sample : K4304-04DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 15 11:14:01 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 :
CB5N5DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:36 PM



TIC: BM022118.D

(25) Dibenzo(a,h)anthracene

25.628min (-0.036) 0.91ng/ul m JU 08/15/19

response 15030

Ion	Exp%	Act%
278.00	100	100
139.00	17.70	16.98
279.00	35.40	26.65#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022118.D
Acq On : 14 Aug 2019 21:16
Operator : HP/JU
Sample : K4304-04DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : CB5N5DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:36 PM

Quant Time: Aug 15 11:15:13 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	1071	0.40	ng/ul	-0.01
2) Naphthalene-d8	10.38	136	4397	0.40	ng/ul	-0.03
6) Acenaphthene-d10	14.26	164	2223	0.40	ng/ul	-0.01
10) Phenanthrene-d10	17.01	188	4673	0.40	ng/ul	-0.02
16) Chrysene-d12	21.21	240	4564	0.40	ng/ul	-0.02
20) Perylene-d12	23.42	264	5008	0.40	ng/ul	-0.02
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.99	152	586	0.08	ng/ul	-0.02
14) Fluoranthene-d10	19.05	212	1262	0.08	ng/ul	-0.02
Target Compounds						Qvalue
3) Naphthalene	10.43	128	16632	1.339	ng/ul#	92
5) 2-Methylnaphthalene	12.06	142	4202	0.508	ng/ul	96
7) Acenaphthylene	13.98	152	3626	0.350	ng/ul#	83
8) Acenaphthene	14.32	153	9699	1.143	ng/ul	96
9) Fluorene	15.31	166	11014	1.169	ng/ul	97
12) Phenanthrene	17.05	178	139848	10.285	ng/ul	96
13) Anthracene	17.15	178	32707	2.820	ng/ul	94
15) Fluoranthene	19.08	202	200725	11.020	ng/ul	95
17) Pyrene	19.45	202	167248	8.918	ng/ul	97
18) Benzo(a)anthracene	21.20	228	92532	5.668	ng/ul	99
19) Chrysene	21.25	228	87765	4.180	ng/ul	99
21) Benzo(b)fluoranthene	22.76	252	115977m →	6.868	ng/ul	> JU 08/15/19
22) Benzo(k)fluoranthene	22.80	252	44276m →	2.317	ng/ul	>
23) Benzo(a)pyrene	23.33	252	80849	4.708	ng/ul#	75
24) Indeno(1,2,3-cd)pyrene	25.63	276	56173	2.739	ng/ul#	93
25) Dibenzo(a,h)anthracene	25.63	278	15030m →	0.907	ng/ul	> JU 08/15/19
26) Benzo(g,h,i)perylene	26.30	276	44602	2.416	ng/ul	96

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