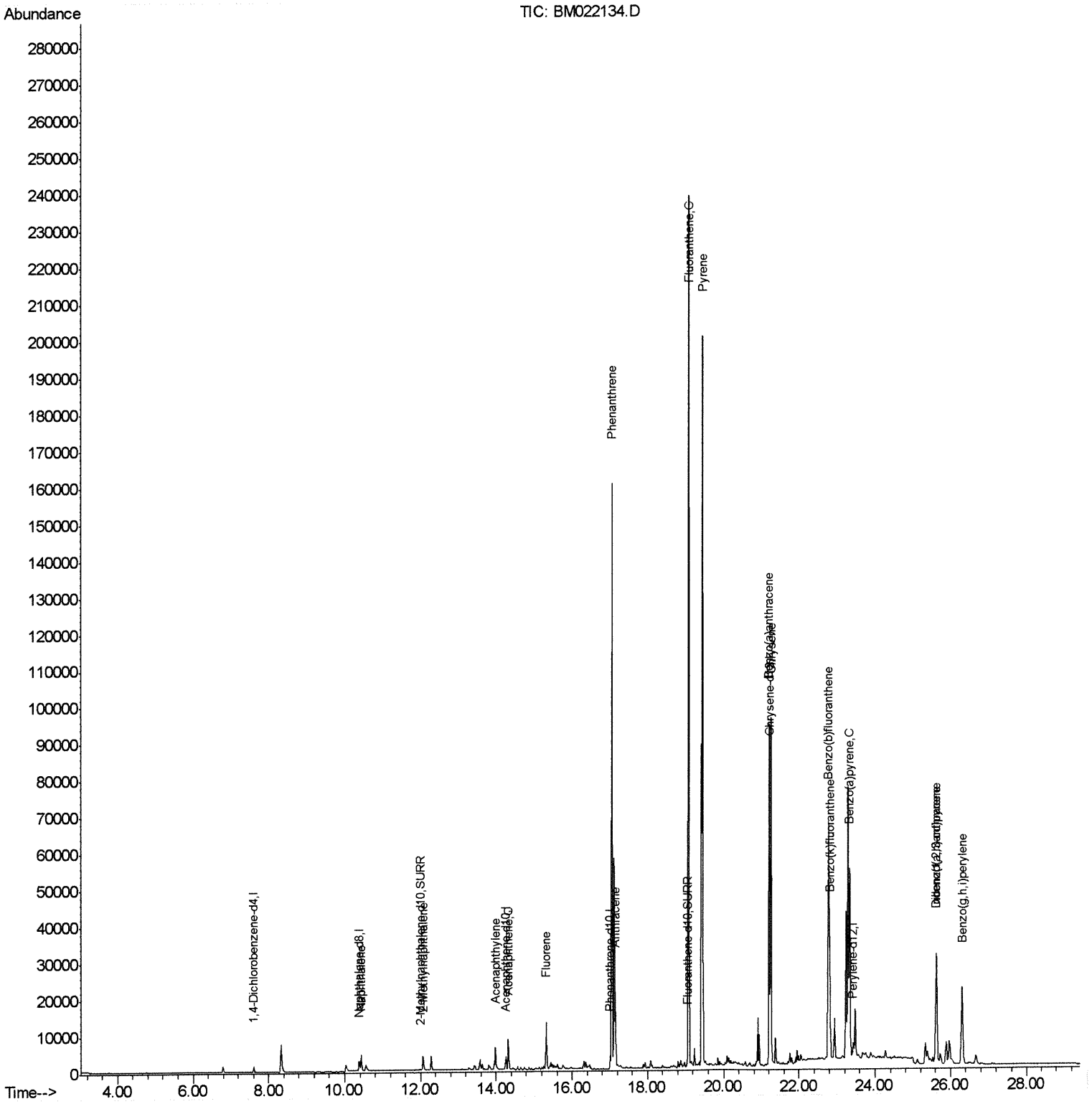
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022134.D
Acq On : 15 Aug 2019 08:15
Operator : HP/JU
Sample : K4304-12DL 5X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 15 13:10:33 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 :
CB5P3DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:10:25 PM

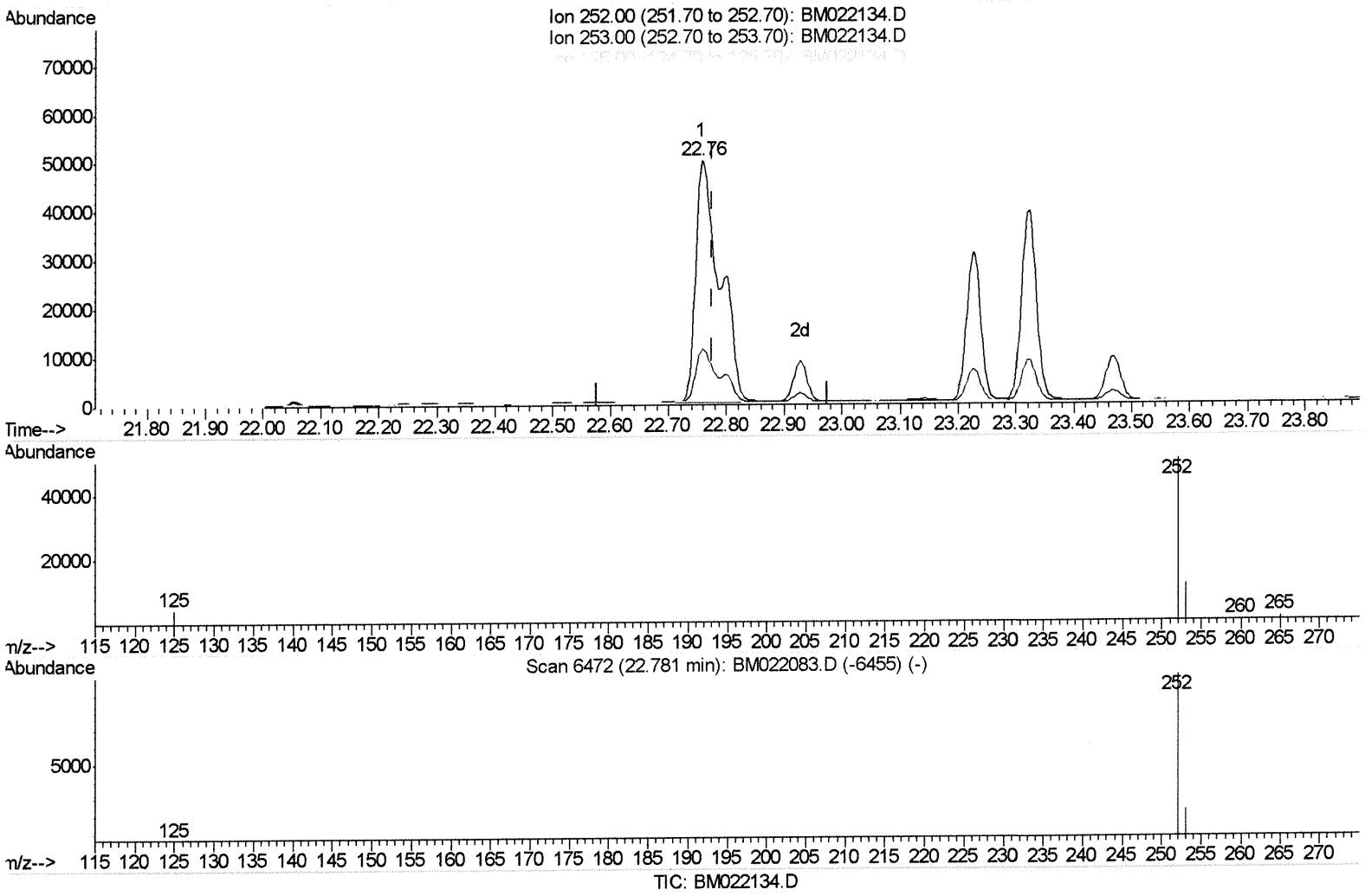


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022134.D
Acq On : 15 Aug 2019 08:15
Operator : HP/JU
Sample : K4304-12DL 5X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 15 13:09:46 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 :
CB5P3DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:10:25 PM



TIC: BM022134.D

(21) Benzo(b)fluoranthene

22.757min (-0.019) 9.45ng/ul

response 144730

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	22.66
125.00	15.50	8.71
0.00	0.00	0.00

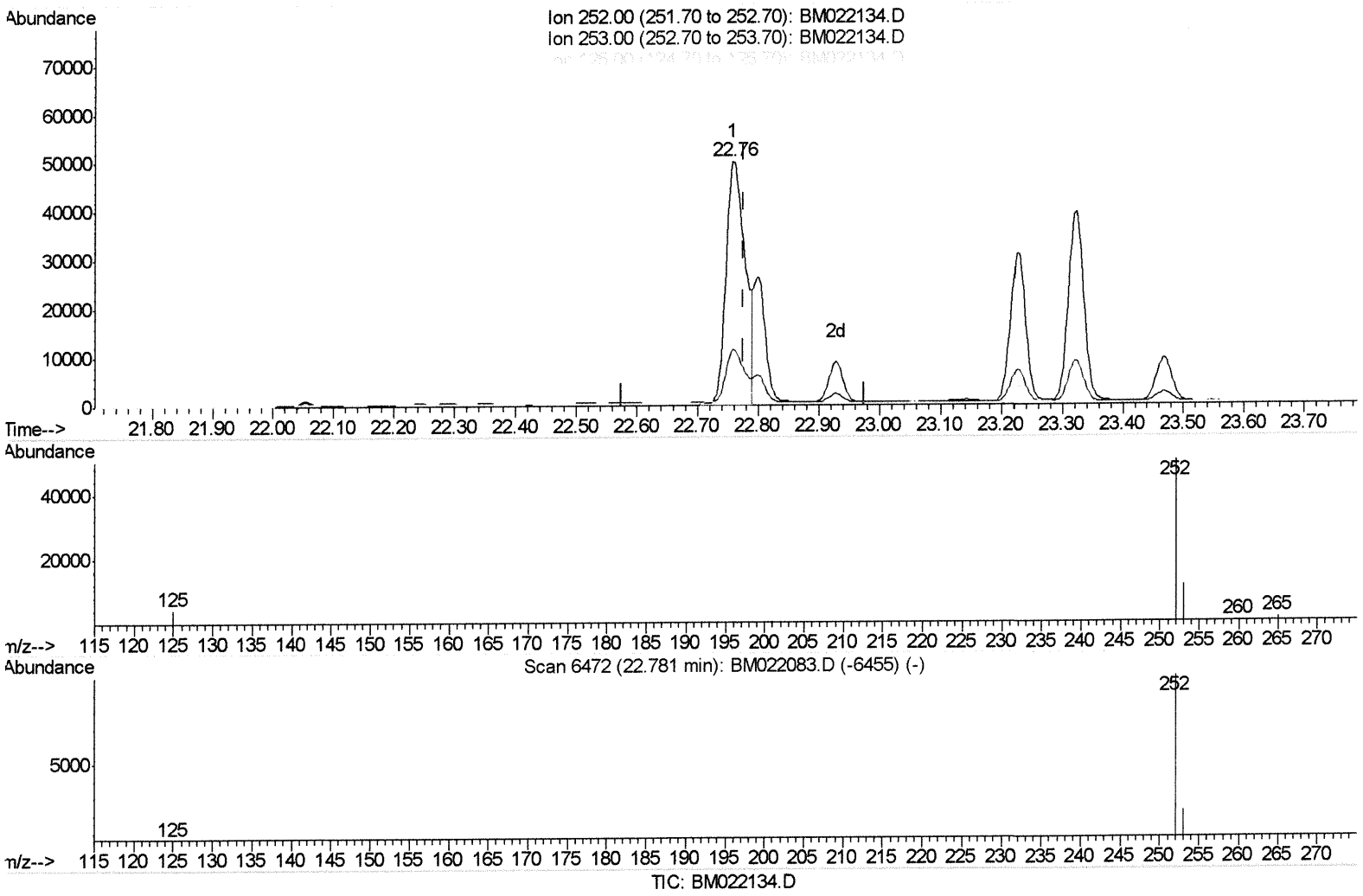
Quantitation Report (Quan)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022134.D
Acq On : 15 Aug 2019 08:15
Operator : HP/JU
Sample : K4304-12DL 5X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 15 13:09:46 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 :
CB5P3DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:10:25 PM



TIC: BM022134.D

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

22.757min (-0.019) 7.20ng/ul m

response 110314

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	22.66
125.00	15.50	8.71
0.00	0.00	0.00

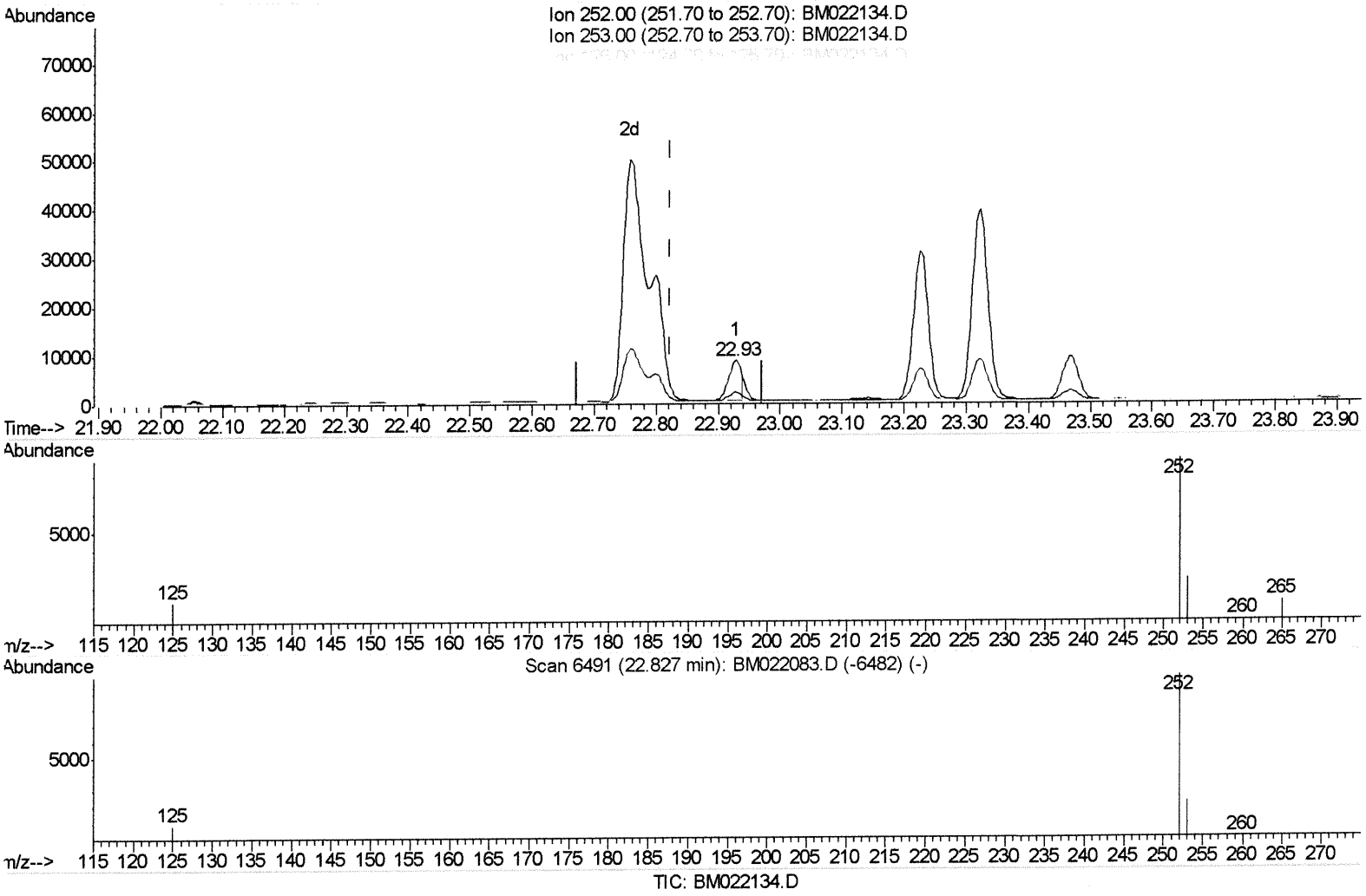
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022134.D
Acq On : 15 Aug 2019 08:15
Operator : HP/JU
Sample : K4304-12DL 5X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 15 13:09:46 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 :
CB5P3DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:10:25 PM



(22) Benzo(k)fluoranthene

22.929min (+0.107) 0.67ng/ul

response 11671

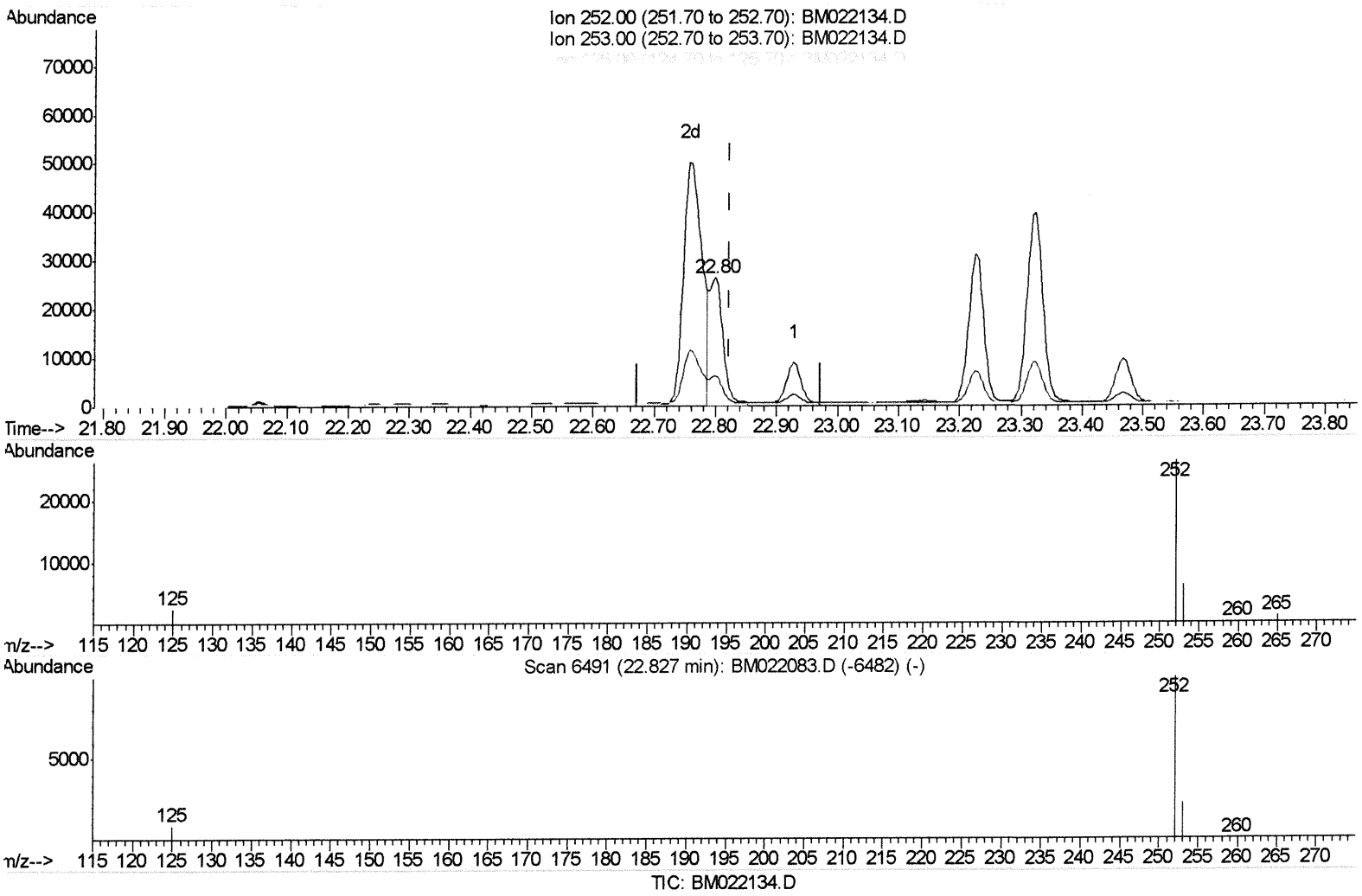
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	27.09
125.00	15.20	13.71
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022134.D
Acq On : 15 Aug 2019 08:15
Operator : HP/JU
Sample : K4304-12DL 5X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 15 13:09:46 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 :
CB5P3DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:10:25 PM



(22) Benzo(k)fluoranthene

22.798min (-0.024) 2.38ng/ul m JU 08/15/19

response 41297

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	23.41#
125.00	15.20	9.67#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022134.D
Acq On : 15 Aug 2019 08:15
Operator : HP/JU
Sample : K4304-12DL 5X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CB5P3DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:10:25 PM

Quant Time: Aug 15 13:10:33 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	948	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.38	136	3864	0.40	ng/ul	-0.02
6) Acenaphthene-d10	14.25	164	1980	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.01	188	4261	0.40	ng/ul	-0.03
16) Chrysene-d12	21.21	240	4159	0.40	ng/ul	-0.02
20) Perylene-d12	23.42	264	4544	0.40	ng/ul	-0.02
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.99	152	489	0.08	ng/ul	-0.02
14) Fluoranthene-d10	19.04	212	1174	0.08	ng/ul	-0.02
Target Compounds						Qvalue
3) Naphthalene	10.42	128	6305	0.578	ng/ul	94
5) 2-Methylnaphthalene	12.06	142	3567	0.491	ng/ul	97
7) Acenaphthylene	13.98	152	7052	0.764	ng/ul#	83
8) Acenaphthene	14.31	153	5020	0.664	ng/ul	98
9) Fluorene	15.31	166	8798	1.048	ng/ul	99
12) Phenanthrene	17.05	178	165744	13.368	ng/ul	96
13) Anthracene	17.15	178	23061	2.181	ng/ul	95
15) Fluoranthene	19.08	202	204247	12.298	ng/ul	94
17) Pyrene	19.44	202	170175	9.957	ng/ul	99
18) Benzo(a)anthracene	21.20	228	82693	5.559	ng/ul	98
19) Chrysene	21.25	228	89302	4.668	ng/ul	99
21) Benzo(b)fluoranthene	22.76	252	110314m→	7.199	ng/ul→	
22) Benzo(k)fluoranthene	22.80	252	41297m→	2.381	ng/ul→	
23) Benzo(a)pyrene	23.32	252	70477	4.523	ng/ul#	75
24) Indeno(1,2,3-cd)pyrene	25.62	276	50428	2.710	ng/ul#	93
25) Dibenzo(a,h)anthracene	25.63	278	13751	0.914	ng/ul#	91
26) Benzo(g,h,i)perylene	26.30	276	42386	2.530	ng/ul	95

JU 08/15/19

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