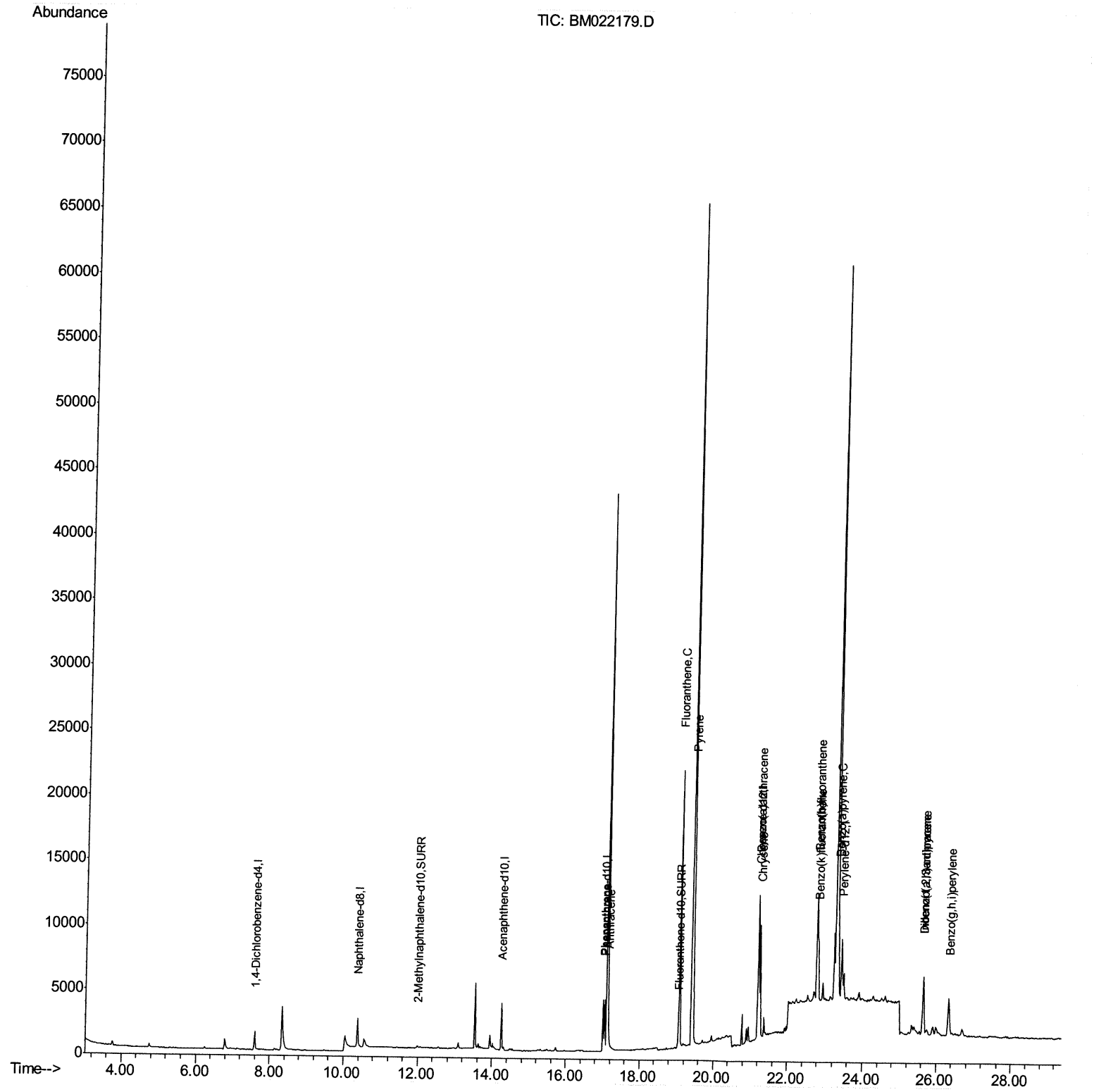
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081519\
Data File : BM022179.D
Acq On : 16 Aug 2019 20:39
Operator : HP/JU
Sample : K4242-11DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 05:05:11 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 : Sat Aug 17 04:19:12 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9DL

Manual Integrations APPROVED
mohammad
8/19/2019 5:32:26 PM

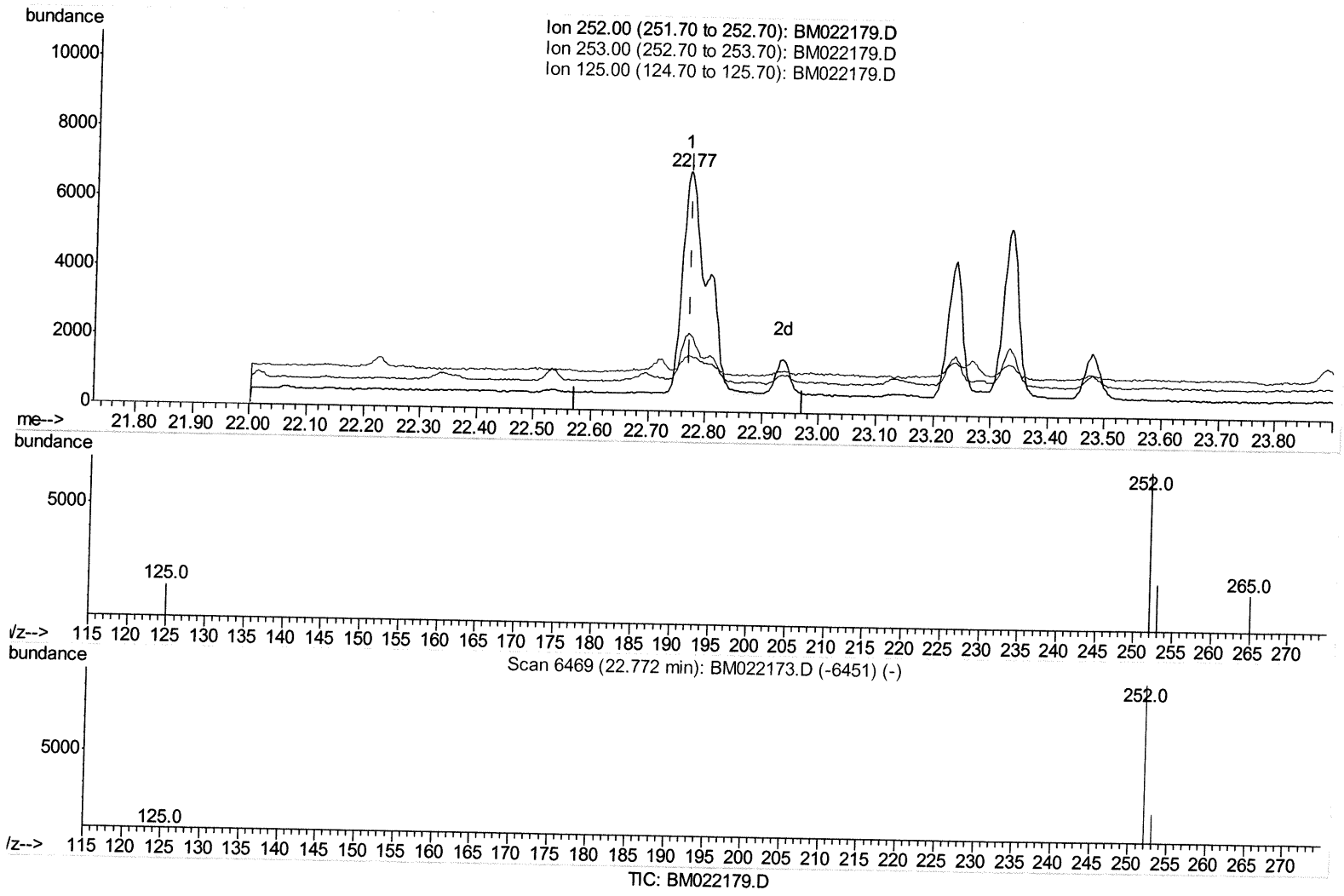


Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081519\
Data File : BM022179.D
Acq On : 16 Aug 2019 20:39
Operator : HP/JU
Sample : K4242-11DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 05:02:59 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 : Sat Aug 17 04:19:12 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9DL

Manual Integrations APPROVED
mohammad
8/19/2019 5:32:26 PM



TIC: BM022179.D

(21) Benzo(b)fluoranthene

22.766min (-0.005) 0.97ng/ul

response 19154

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	32.02
125.00	15.50	22.96
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081519\
Data File : BM022179.D
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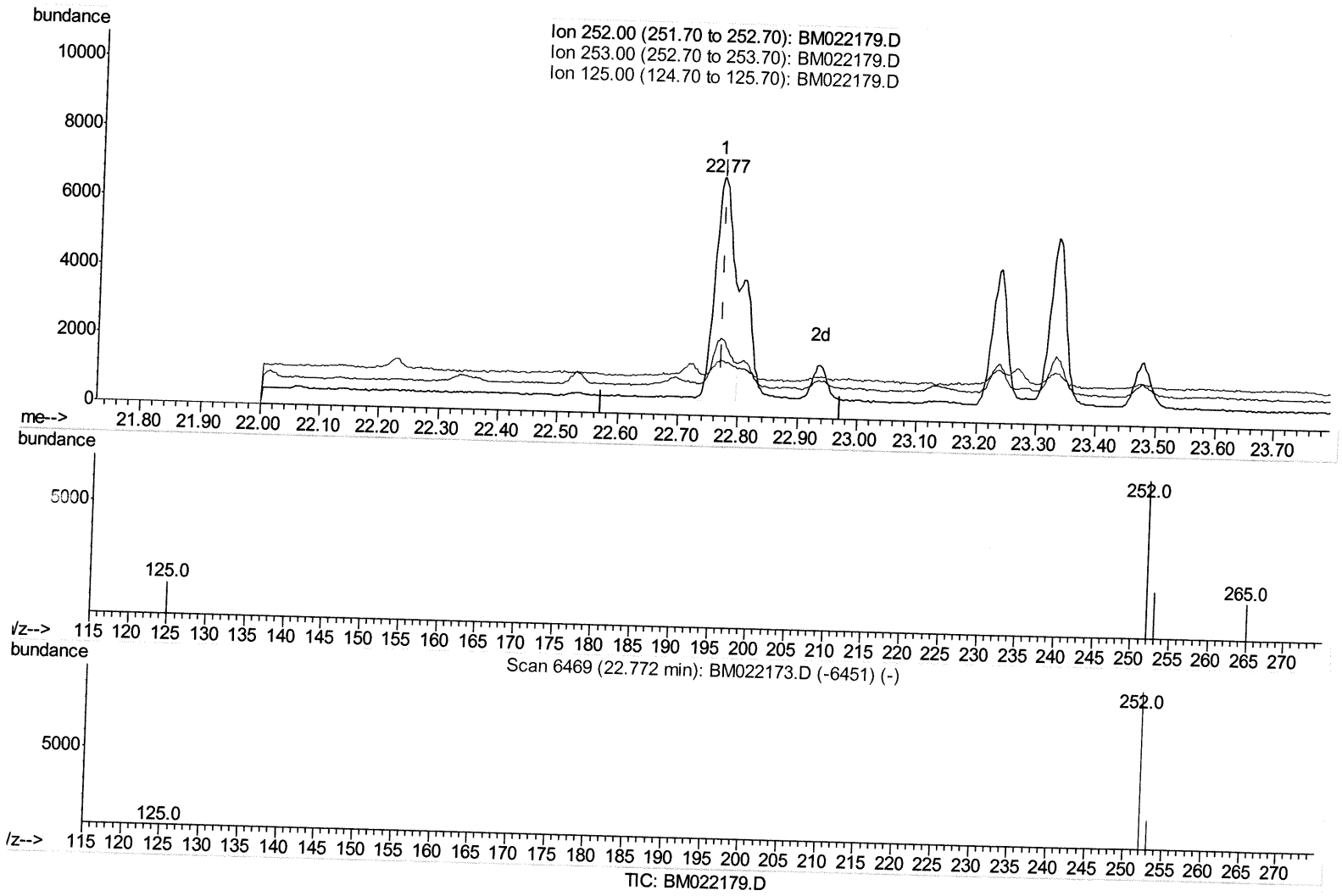
BNA_M
ClientSampleId :
C0AF9DL

Manual Integrations APPROVED
mohammad
8/19/2019 5:32:26 PM



(21) Benzo(b)fluoranthene

22.766min (-0.005) 0.70ng/ul m JU 08/20/19

response 13803

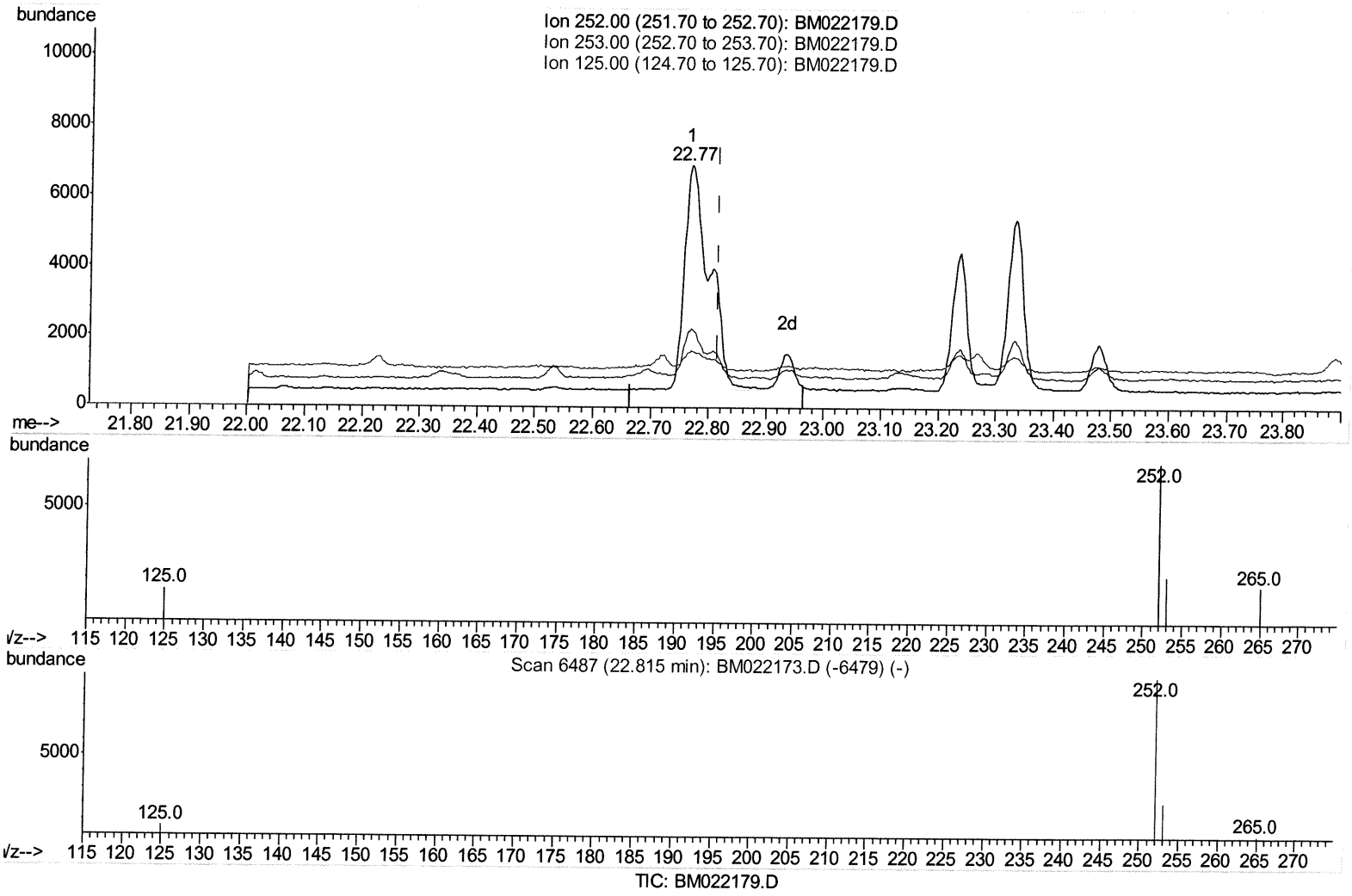
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	32.02
125.00	15.50	22.96
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081519\
Data File : BM022179.D
Acq On : 16 Aug 2019 20:39
Operator : HP/JU
Sample : K4242-11DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 05:02:59 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 : Sat Aug 17 04:19:12 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9DL

Manual Integrations APPROVED
mohammad
8/19/2019 5:32:26 PM



(22) Benzo(k)fluoranthene

22.766min (-0.049) 0.86ng/ul

response 19154

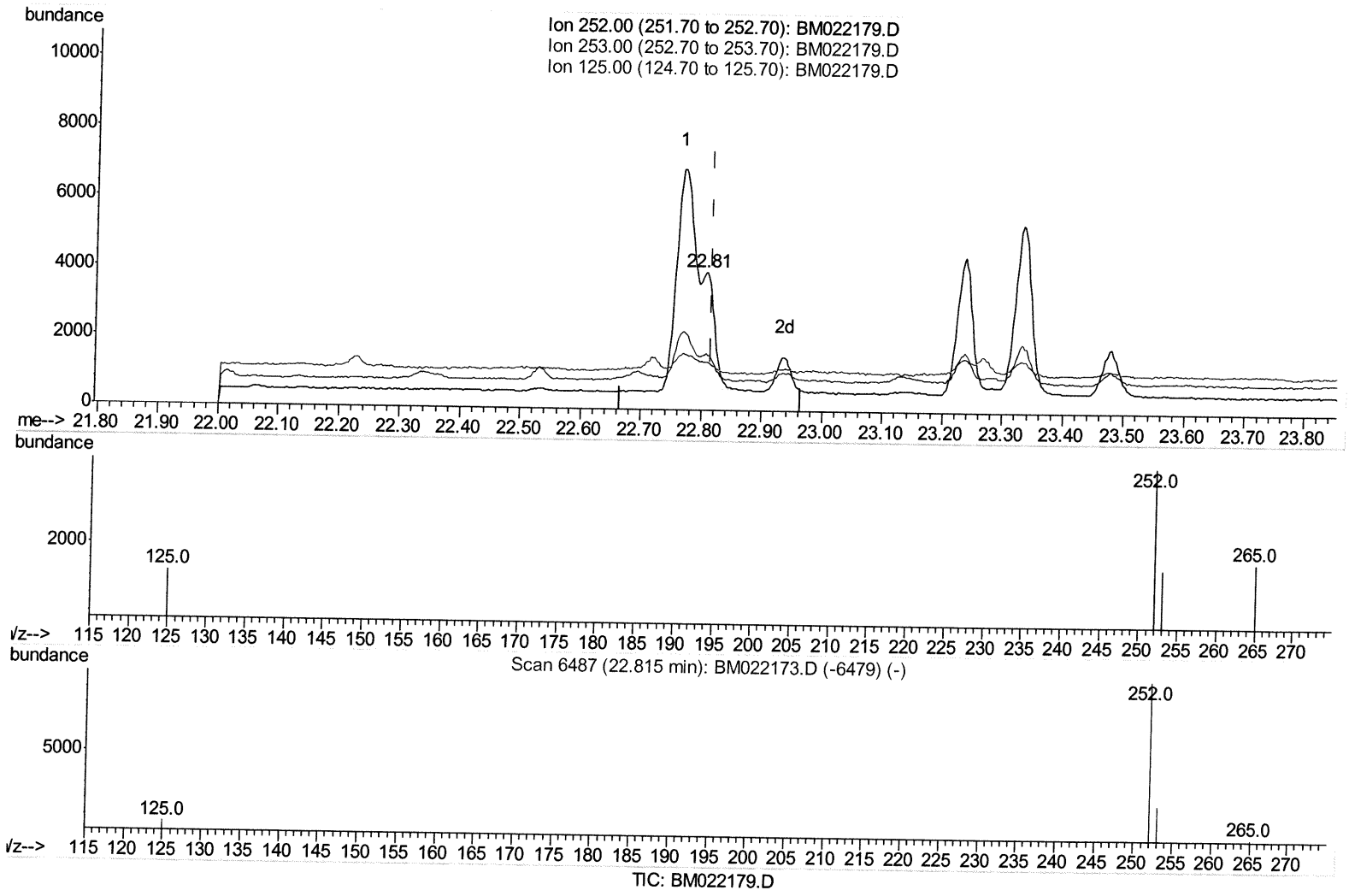
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	32.02
125.00	15.20	22.96#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081519\
Data File : BM022179.D
Acq On : 16 Aug 2019 20:39
Operator : HP/JU
Sample : K4242-11DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 17 05:02:59 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 : Sat Aug 17 04:19:12 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AF9DL

Manual Integrations APPROVED
mohammad
8/19/2019 5:32:26 PM



(22) Benzo(k)fluoranthene

22.805min (-0.010) 0.23ng/ul m JU 08/20/19

response 5113

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	40.09
125.00	15.20	34.50#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081519\
Data File : BM022179.D
Acq On : 16 Aug 2019 20:39
Operator : HP/JU
Sample : K4242-11DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF9DL

Manual Integrations APPROVED
mohammad
8/19/2019 5:32:26 PM

Quant Time: Aug 17 05:05:11 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	834	0.40	ng/ul	0.00
2) Naphthalene-d8	10.38	136	3729	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.25	164	2287	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.01	188	5266	0.40	ng/ul	0.00
16) Chrysene-d12	21.22	240	5297	0.40	ng/ul	0.00
20) Perylene-d12	23.43	264	5849	0.40	ng/ul	0.00
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.00	152	318	0.05	ng/ul	0.02
14) Fluoranthene-d10	19.05	212	958	0.05	ng/ul	0.00
Target Compounds						Qvalue
12) Phenanthrene	17.05	178	4463	0.291	ng/ul	100
13) Anthracene	17.15	178	1031	0.079	ng/ul#	83
15) Fluoranthene	19.08	202	19445	0.947	ng/ul	97
17) Pyrene	19.45	202	16739	0.769	ng/ul	98
18) Benzo(a)anthracene	21.20	228	8718	0.460	ng/ul	94
19) Chrysene	21.25	228	9702	0.398	ng/ul#	93
21) Benzo(b)fluoranthene	22.77	252	13803m→	0.700	ng/ul→	JU 08/20/19
22) Benzo(k)fluoranthene	22.81	252	5113m→	0.229	ng/ul→	
23) Benzo(a)pyrene	23.33	252	9162	0.457	ng/ul#	90
24) Indeno(1,2,3-cd)pyrene	25.64	276	7750	0.324	ng/ul#	92
25) Dibenzo(a,h)anthracene	25.64	278	1713	0.088	ng/ul#	5
26) Benzo(g,h,i)perylene	26.32	276	6255	0.290	ng/ul#	82

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