

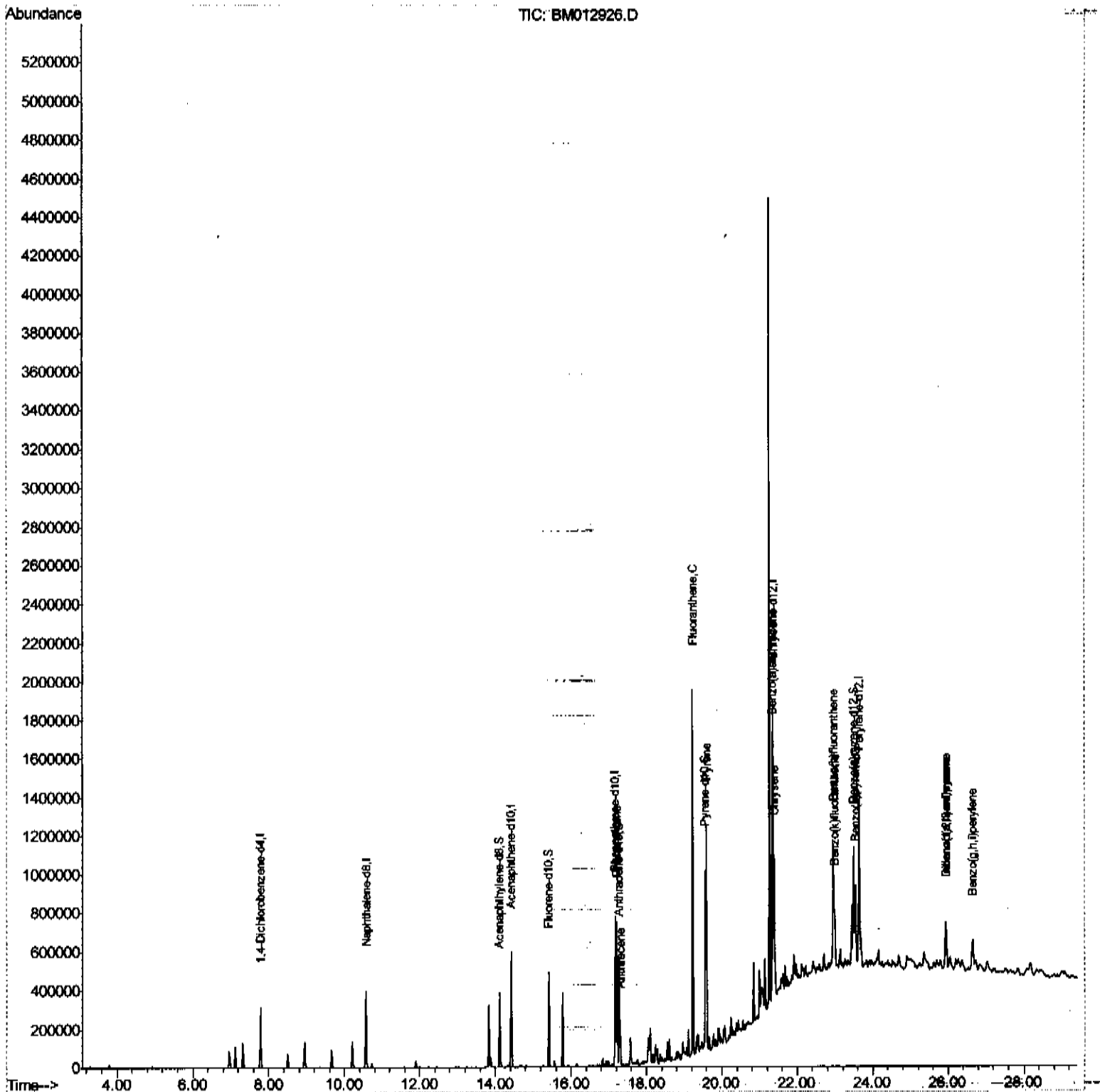
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
Data File : BM012926.D
Acq On : 12 Nov 2017 05:27
Operator : SJ/JU
Sample : I6317-16
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
DAHKO

Manual Integrations
APPROVED

SOHIL
11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:58:19 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Nov 13 02:06:47 2017
Response via : Initial Calibration



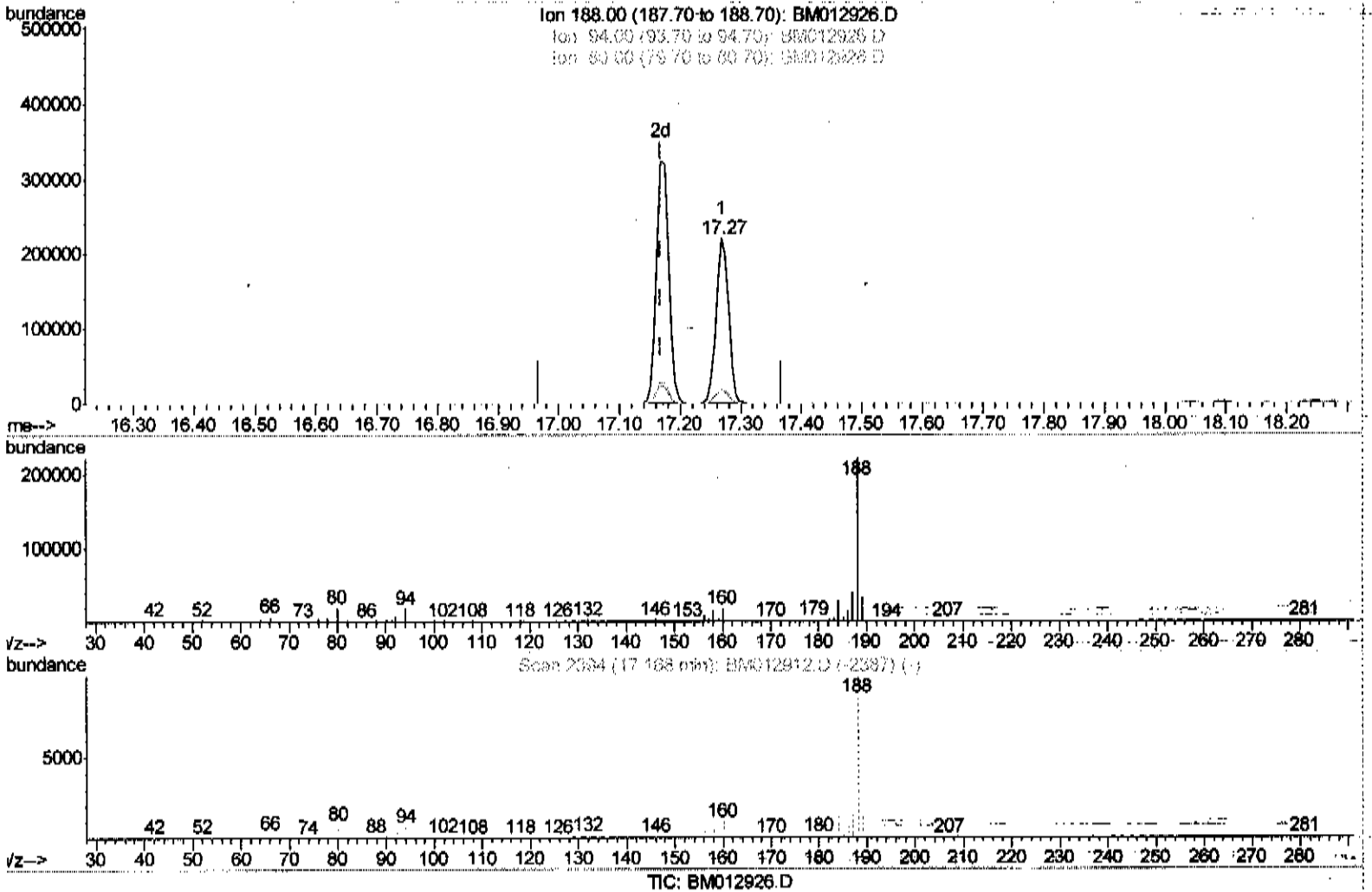
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 02:12:35 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(12) Phenanthrene-d10 (I)
 17.268min (+0.100) 20.00ng/ul
 response 311569

Ion	Exp%	Act%
188.00	100	100
94.00	9.30	8.33
80.00	10.60	8.50
0.00	0.00	0.00

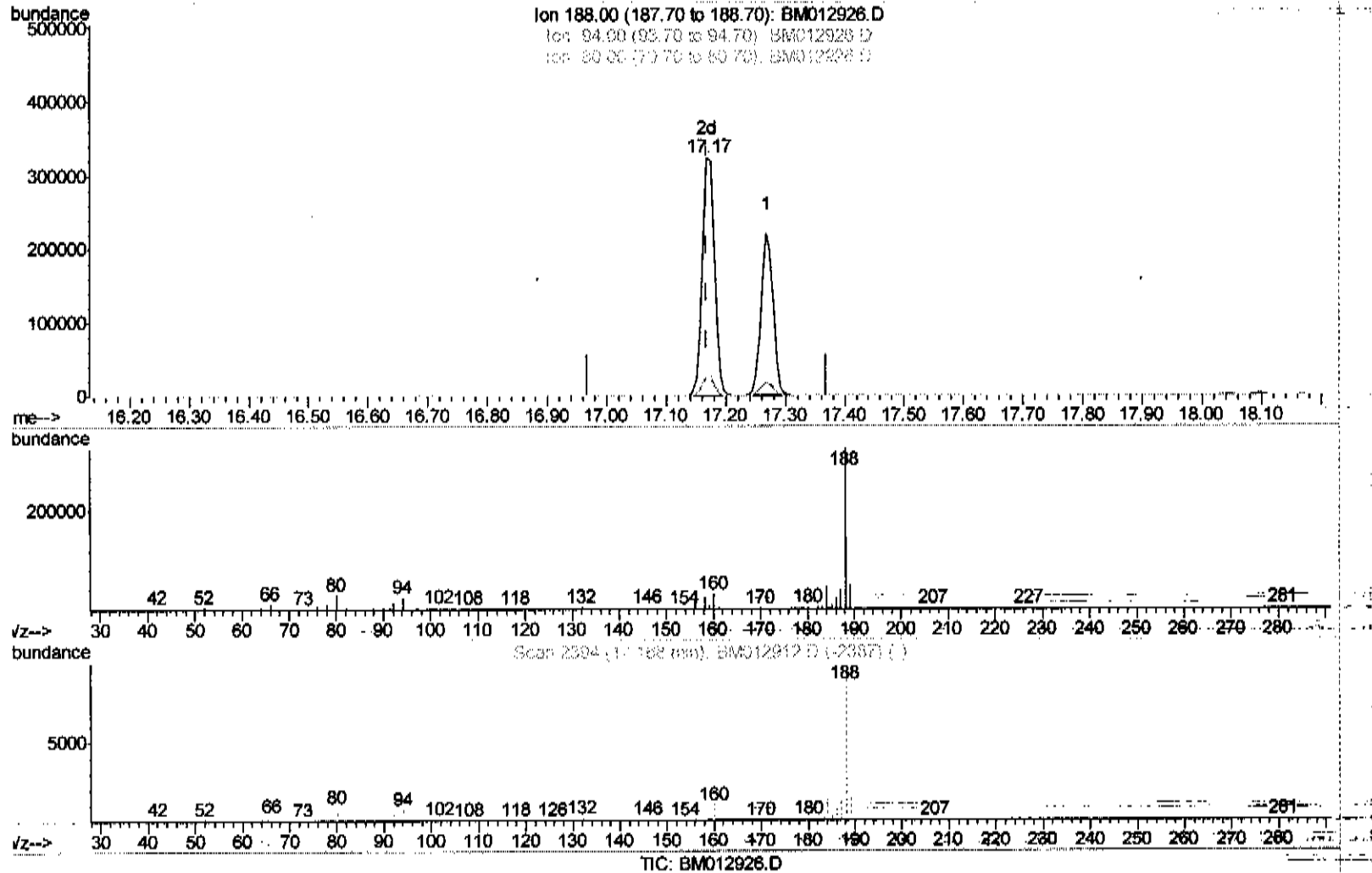
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHK0

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 02:12:35 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(12) Phenanthrene-d10 (I)

17.168min (-0.000) 20.00ng/ul m

response 462093

Ion	Exp%	Act%
188.00	100	100
94.00	9.30	7.19#
80.00	10.60	8.82
0.00	0.00	0.00

34 11/13/12

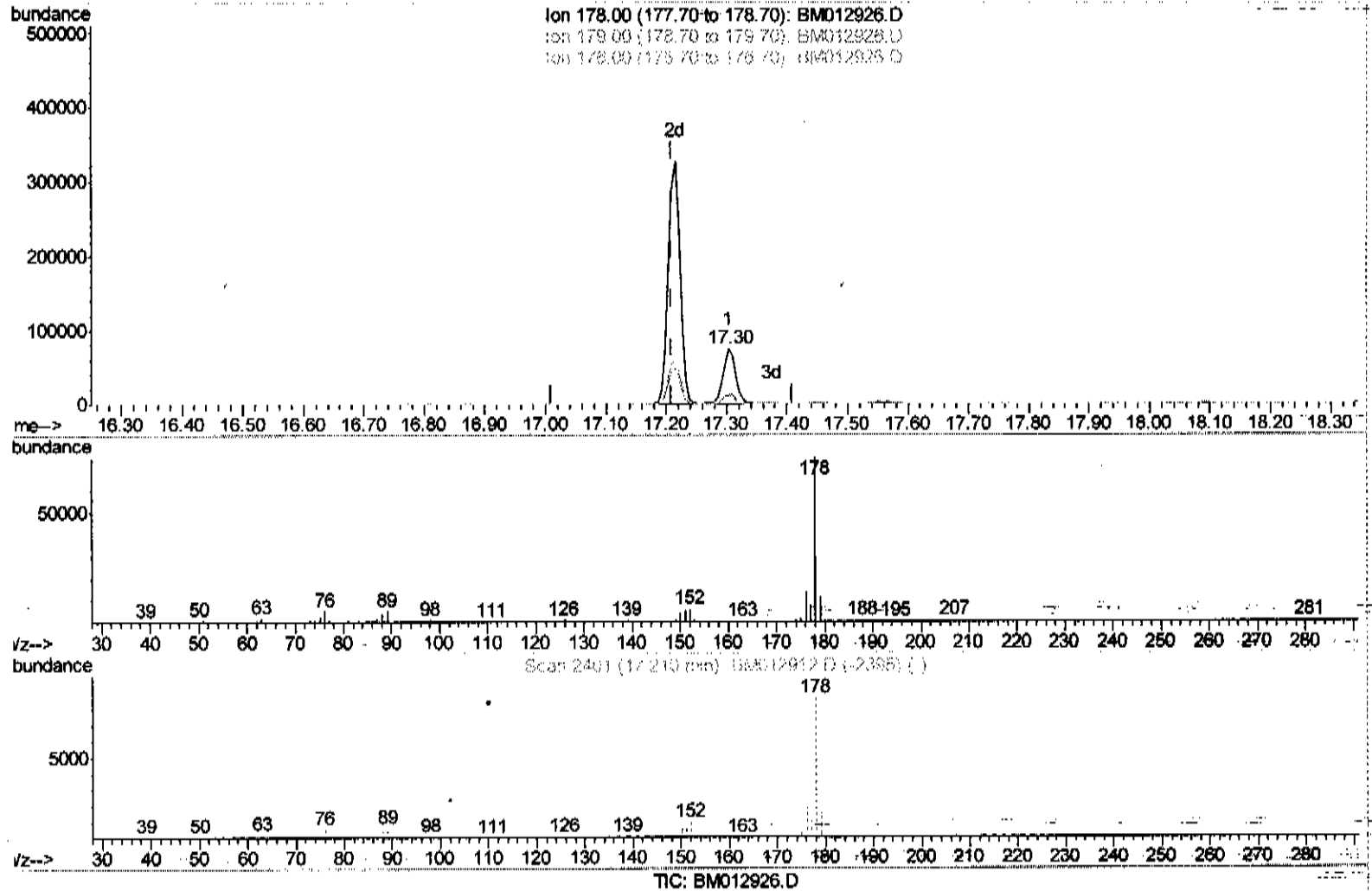
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHK0

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:55:45 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(13) Phenanthrene

17.304min (+0.094) 4.12ng/ul

response 105103

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	15.59
176.00	18.90	18.17
0.00	0.00	0.00

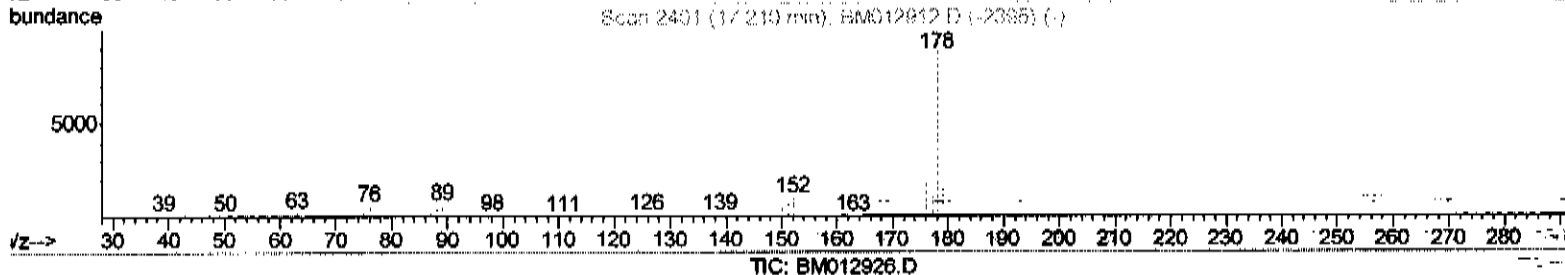
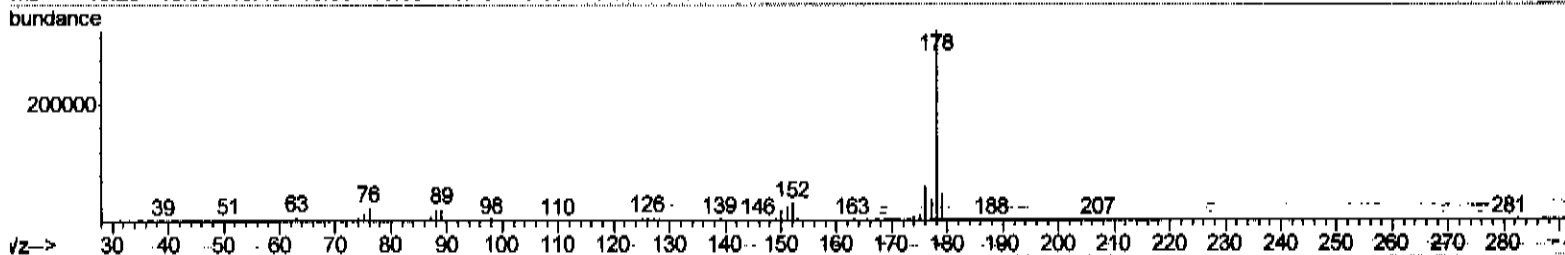
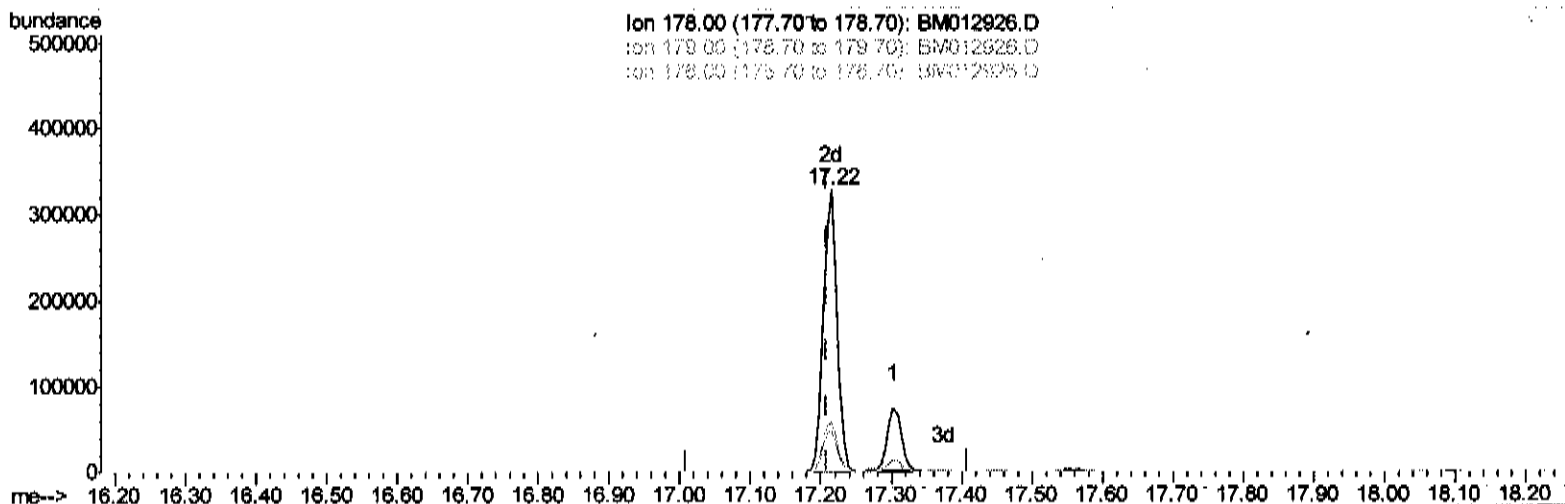
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:55:45 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(13) Phenanthrene

17.215min (+0.006) 17.50ng/ul m

response 446589

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	14.78
176.00	18.90	17.96
0.00	0.00	0.00

JU 11/13/17

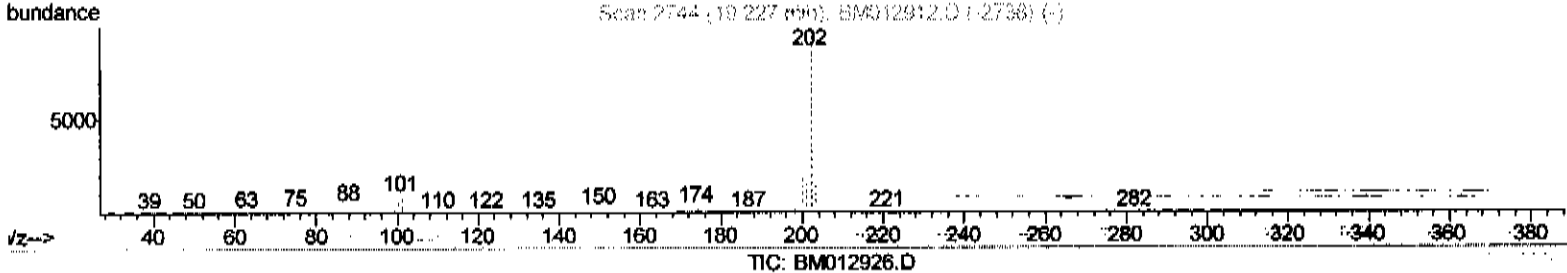
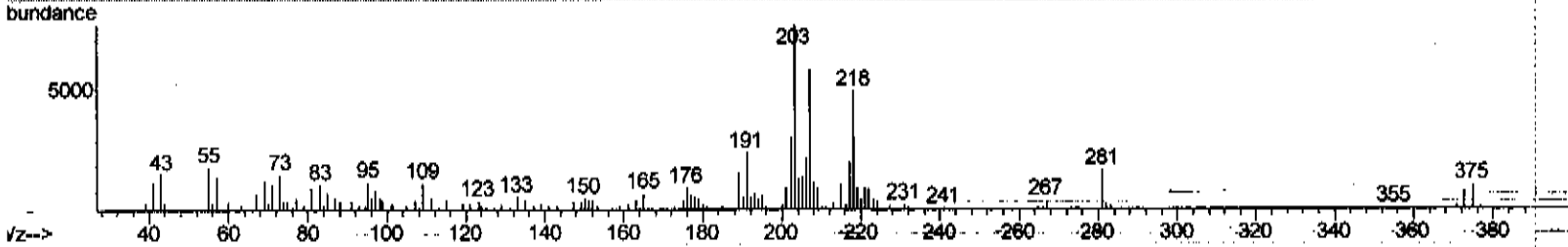
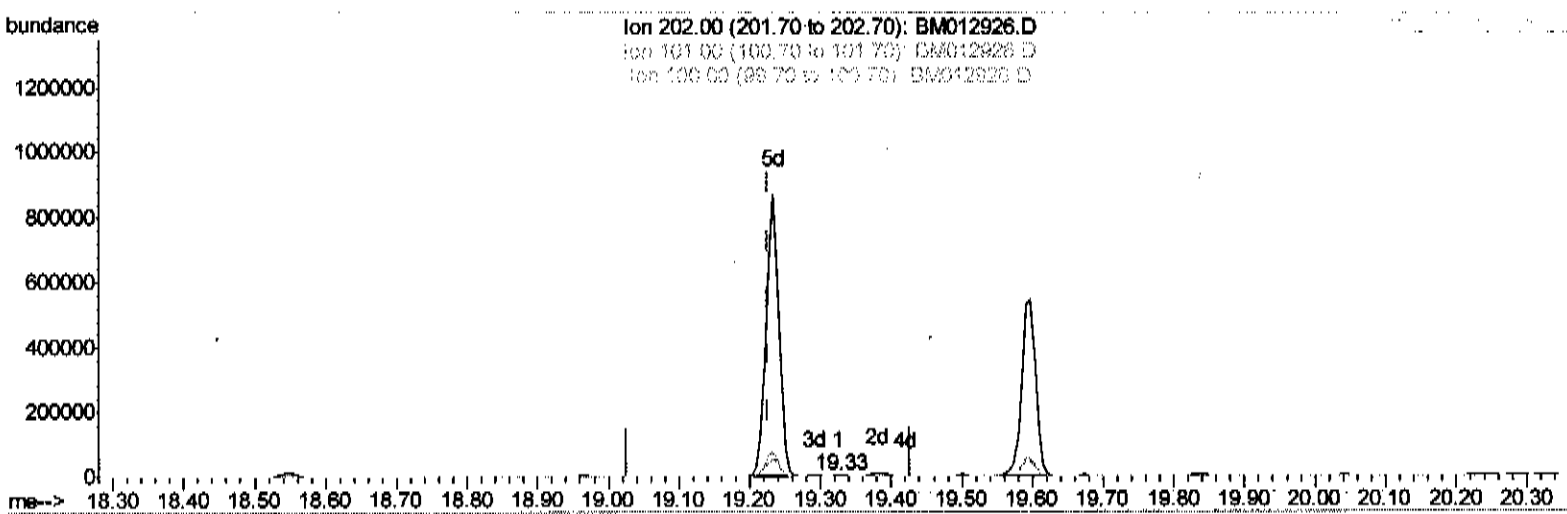
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DAHK0

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:55:45 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(16) Fluoranthene (C)

19.327min (+0.100) 0.10ng/ul

response 3021

Ion	Exp%	Act%
202.00	100	100
101.00	12.40	31.72#
100.00	9.20	0.00#
0.00	0.00	0.00

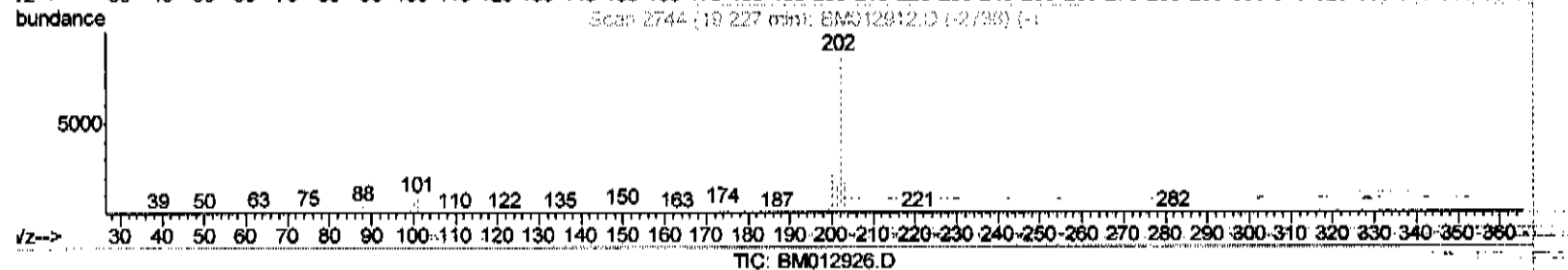
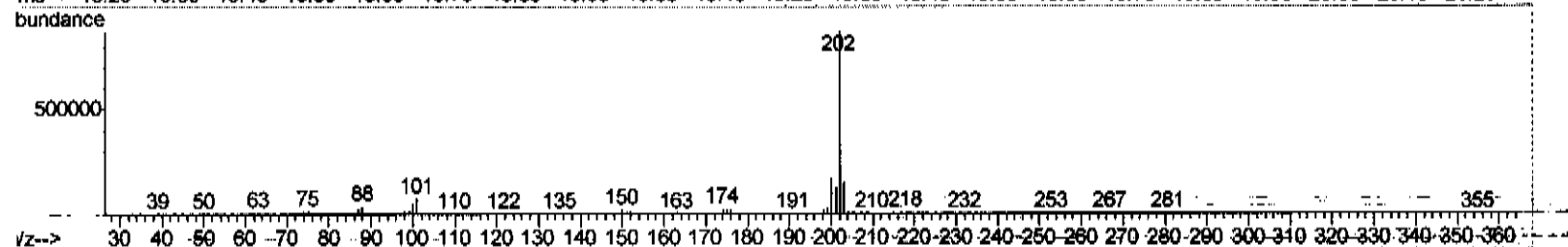
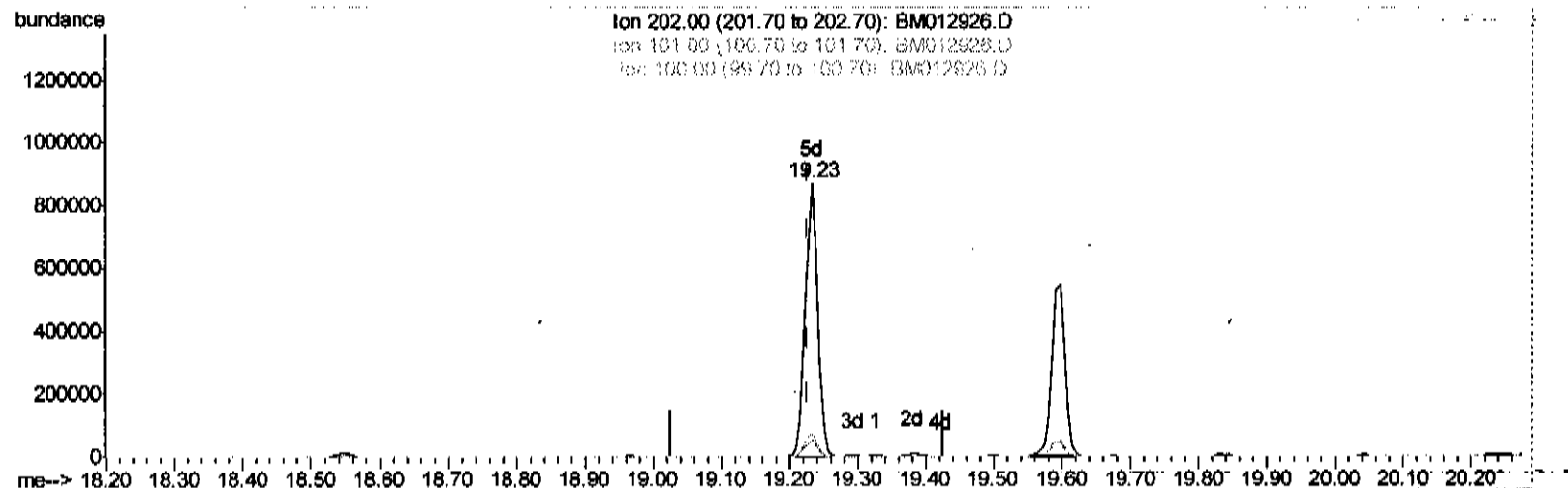
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:55:45 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(16) Fluoranthene (C)

19.233min (+0.006) 34.96ng/ul m

response 1097561

Ion	Exp%	Act%
202.00	100	100
101.00	12.40	8.64#
100.00	9.20	6.44#
0.00	0.00	0.00

see 11/13/17

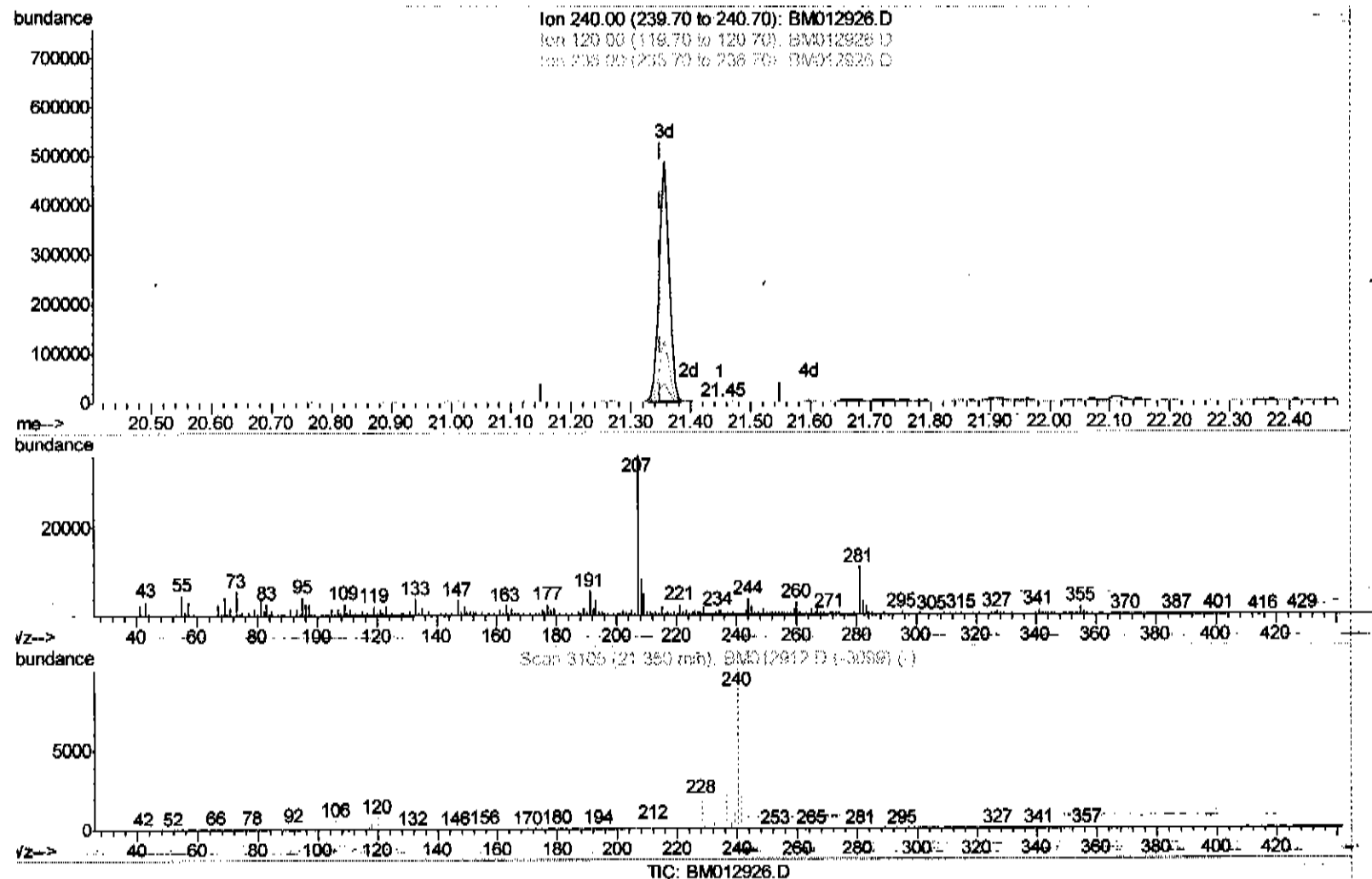
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:55:45 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(17) Chrysene-d12 (I)

21.450min (+0.100) 20.00ng/ul

response 634

Ion	Exp%	Act%
240.00	100	100
120.00	10.20	93.44#
236.00	27.20	102.70#
0.00	0.00	0.00

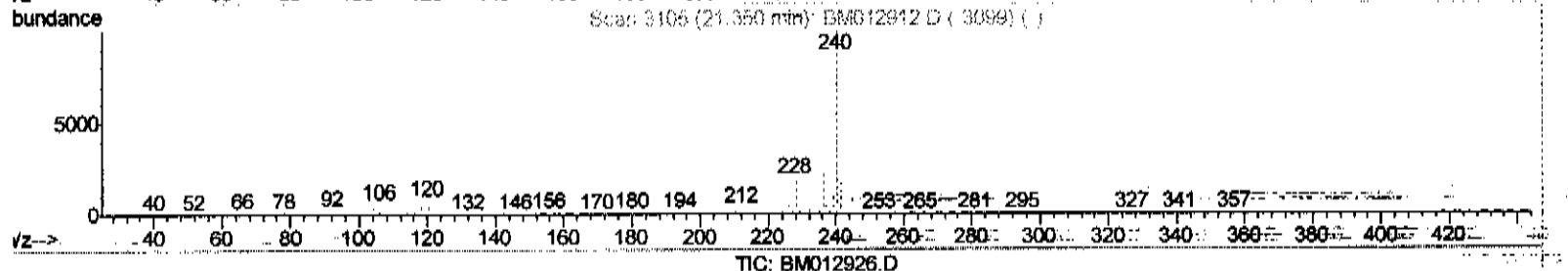
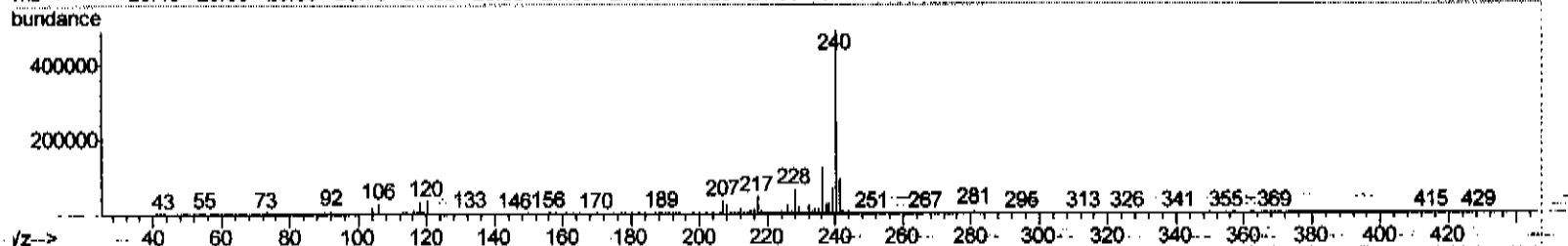
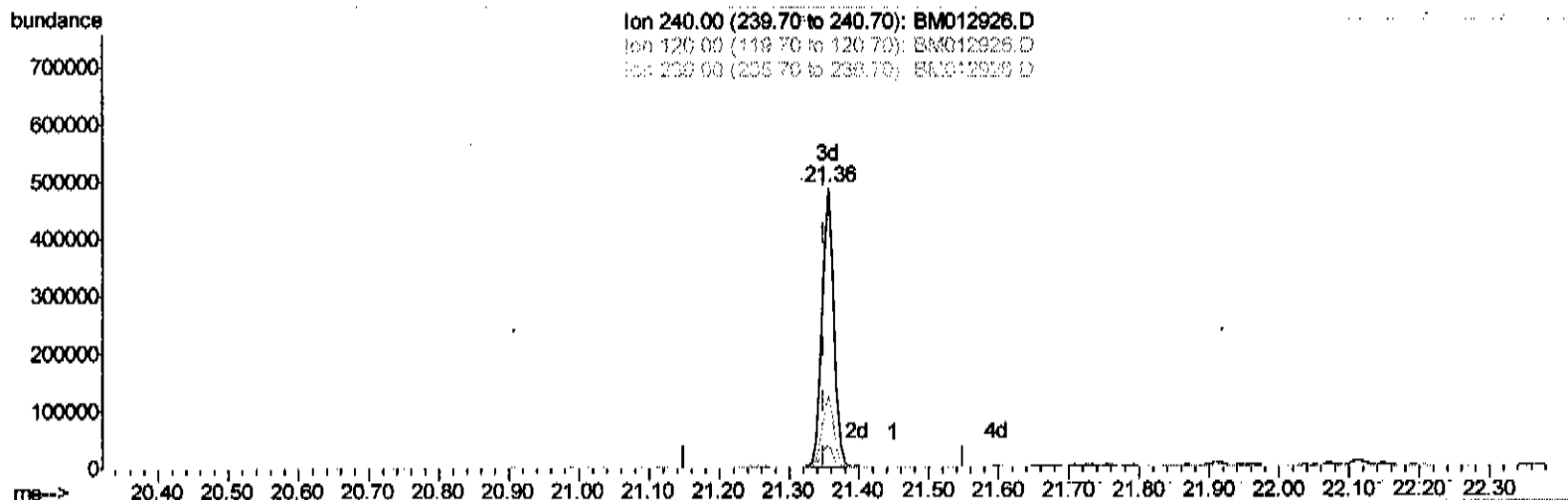
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:55:45 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(17) Chrysene-d12 (I)

21.356min (+0.006) 20.00ng/ul m

response 574697

Ion	Exp%	Act%
240.00	100	100
120.00	10.20	7.53#
236.00	27.20	25.53
0.00	0.00	0.00

3d 11/13/17

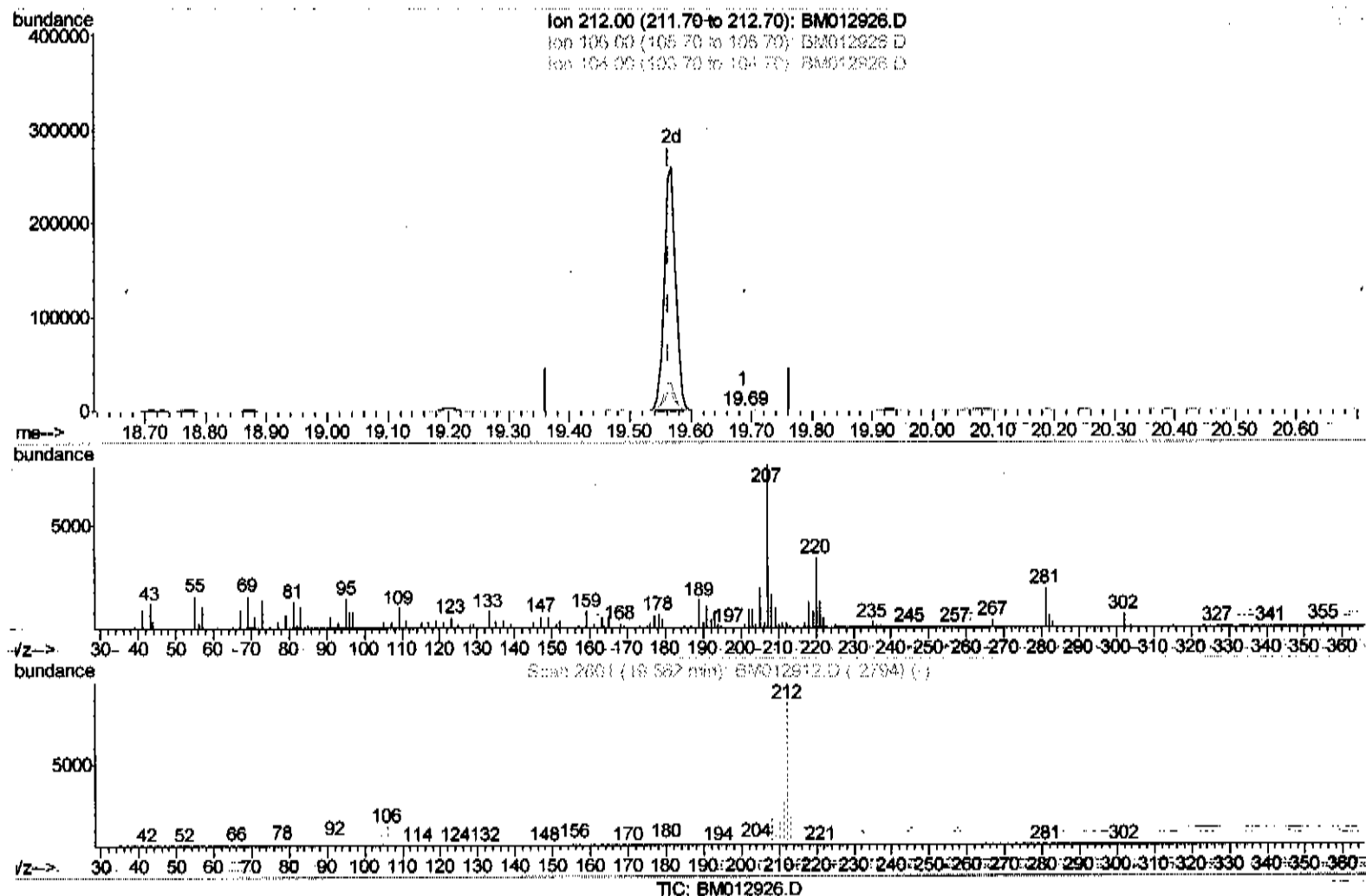
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acc On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:56:42 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(18) Pyrene-d10 (S)

19.686min (+0.123) 0.02ng/ul

response 640

Ion	Exp%	Act%
212.00	100	100
106.00	13.50	0.00#
104.00	10.20	0.00#
0.00	0.00	0.00

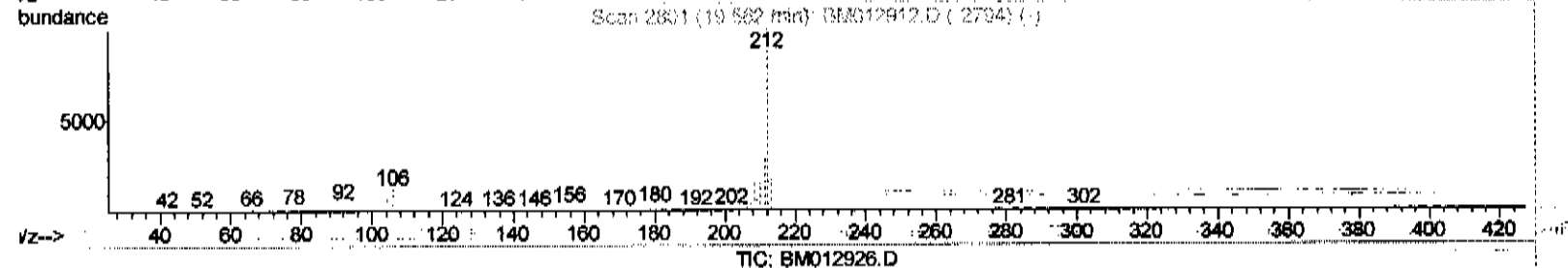
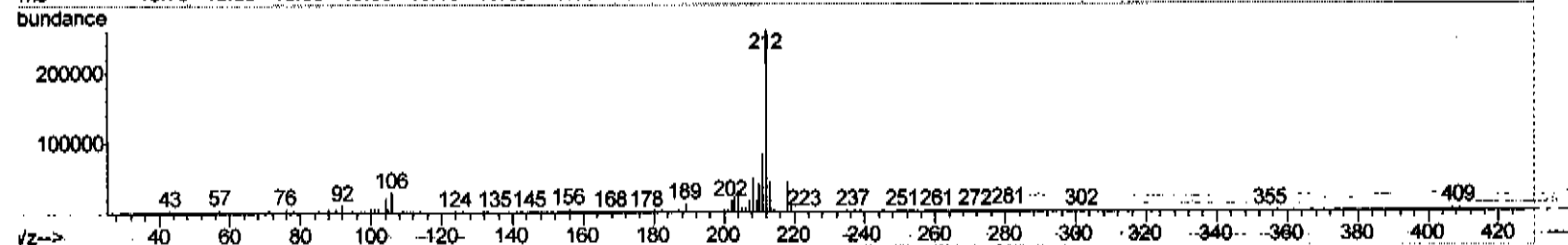
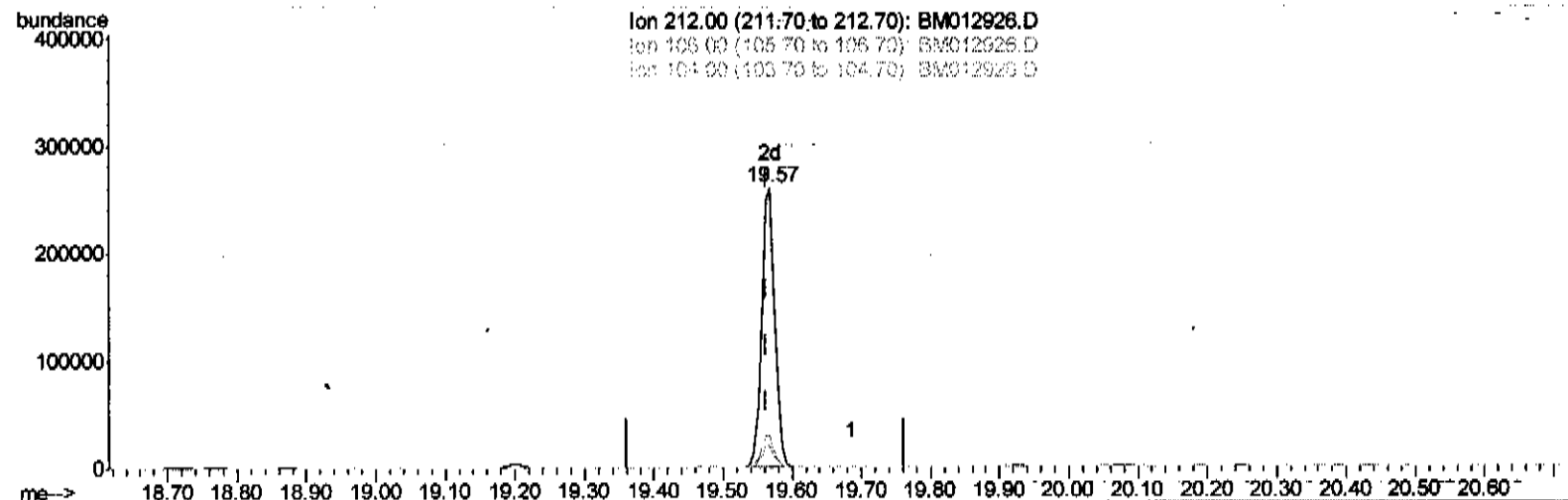
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:56:42 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(18) Pyrene-d10 (S)

19.568min (+0.006) 13.45ng/ul m

response 345831

Ion	Exp%	Act%
212.00	100	100
106.00	13.50	10.84
104.00	10.20	7.33#
0.00	0.00	0.00

Handwritten signature: SJ 11/13/17

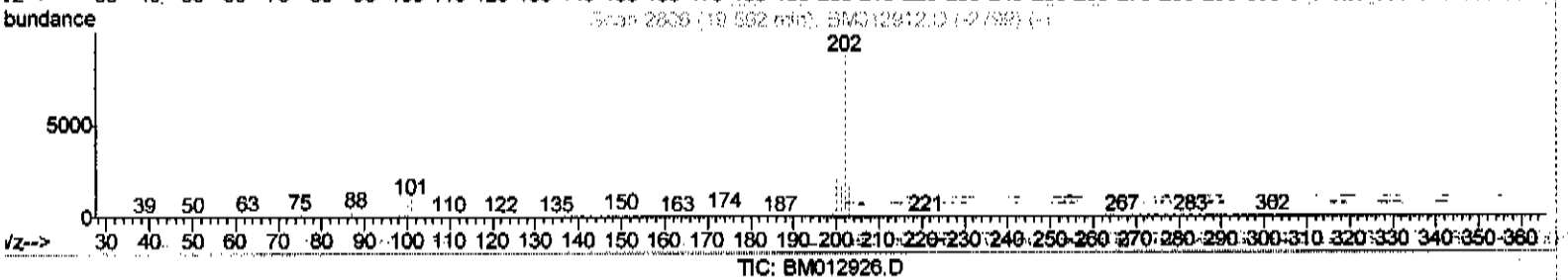
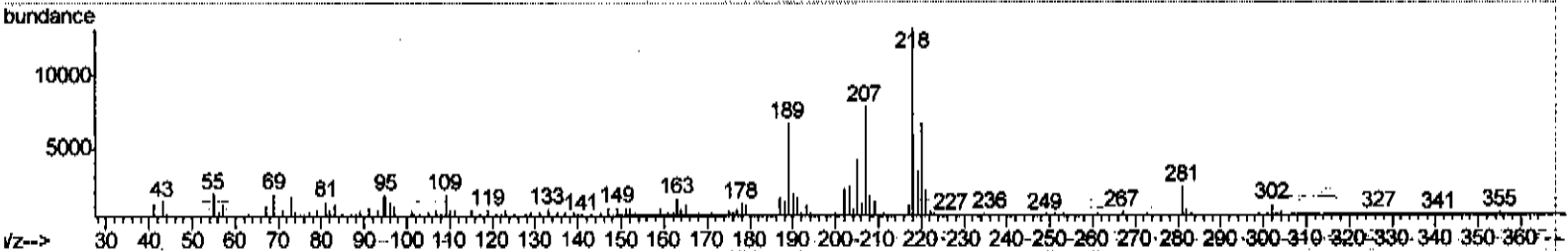
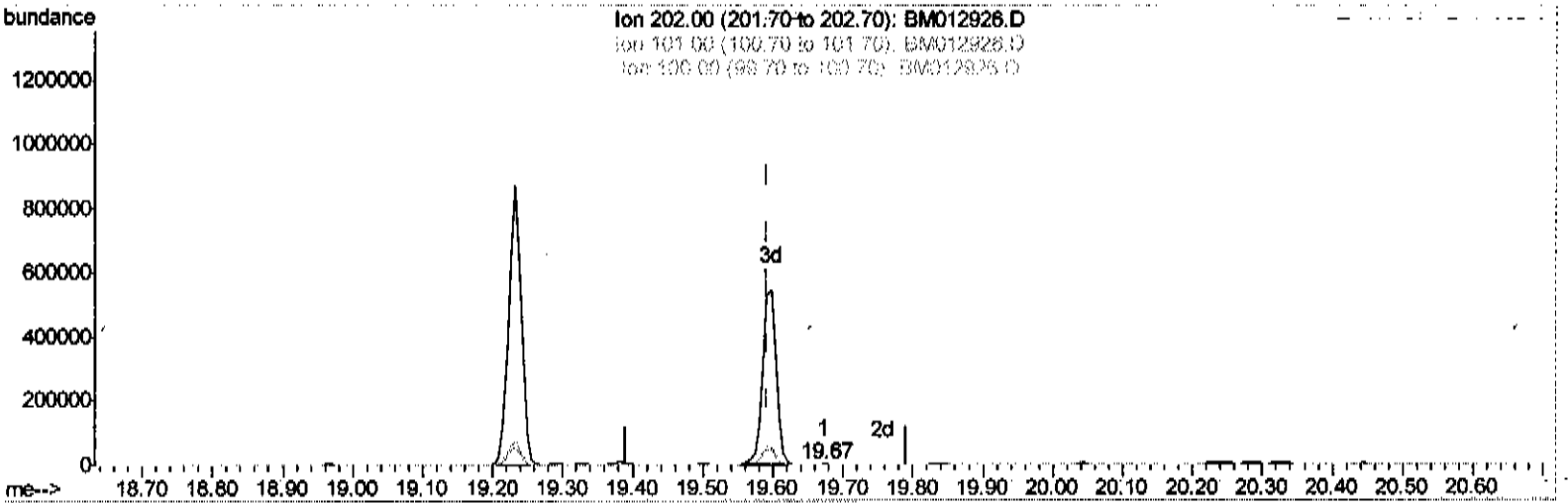
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:57:04 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(19) Pyrene

19.674min (+0.082) 0.09ng/ul

response 2943

Ion	Exp%	Act%
202.00	100	100
101.00	13.70	32.15#
100.00	10.10	15.72#
0.00	0.00	0.00

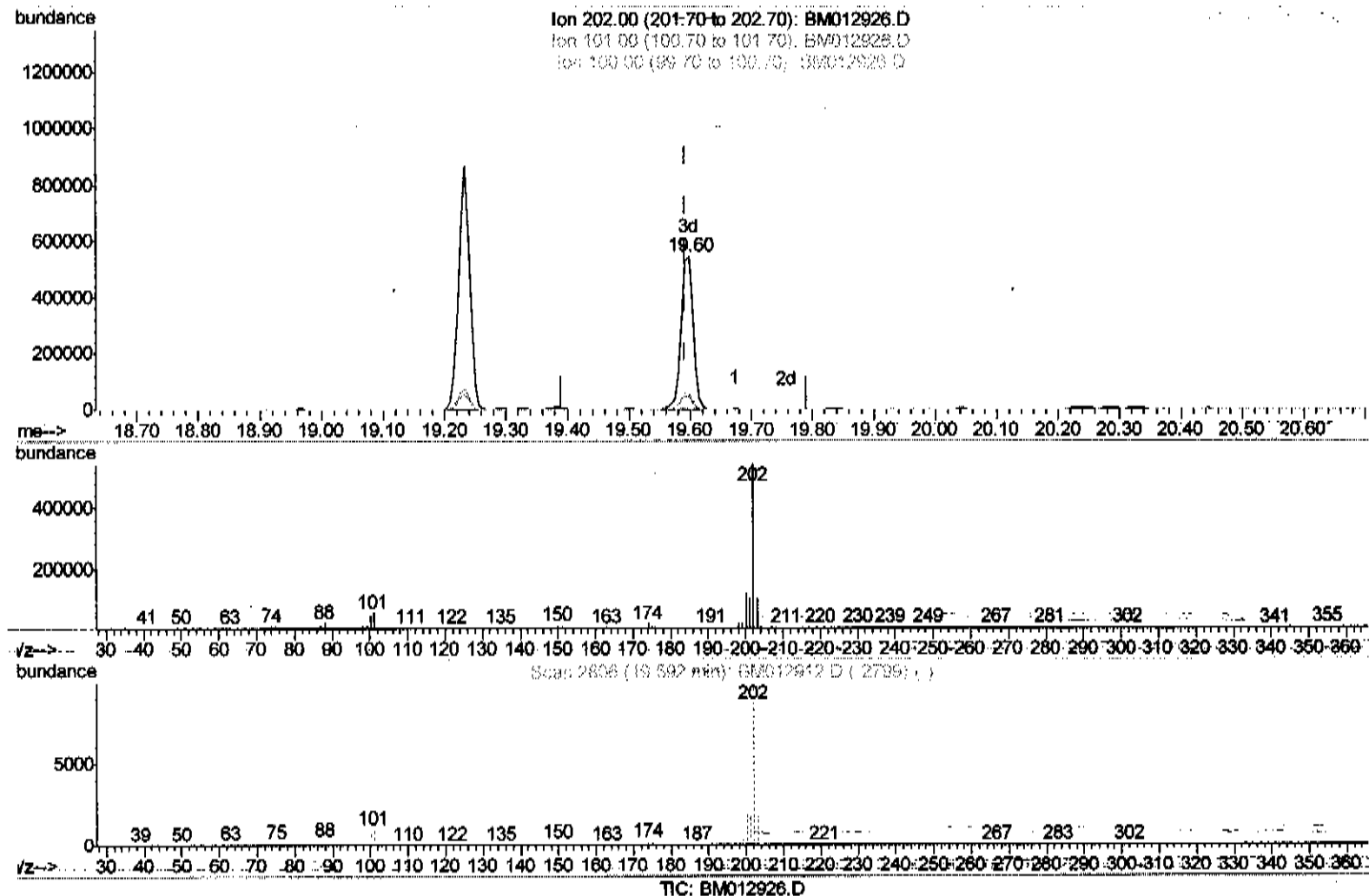
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:57:04 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(19) Pyrene

19.597min (+0.006) 22.62ng/ul m

response 746300

Ion	Exp%	Act%
202.00	100	100
101.00	13.70	9.54#
100.00	10.10	7.85#
0.00	0.00	0.00

11/13/17

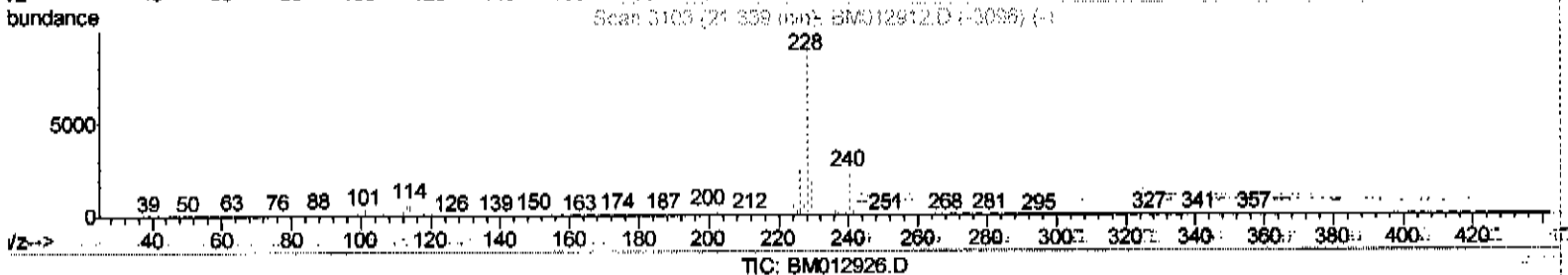
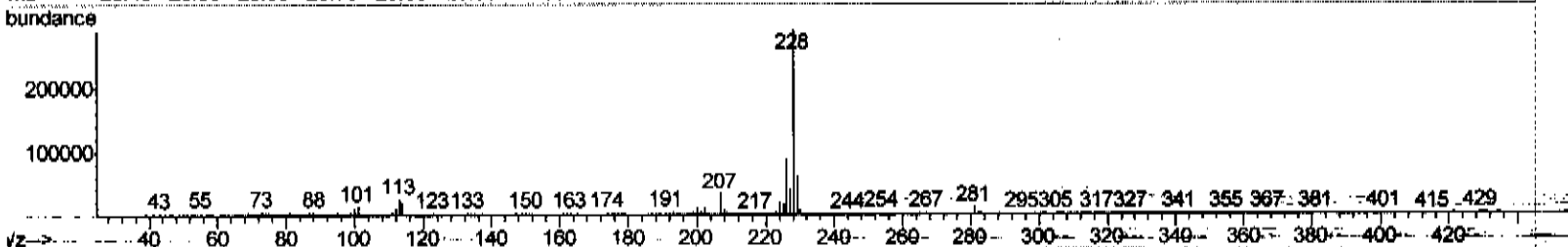
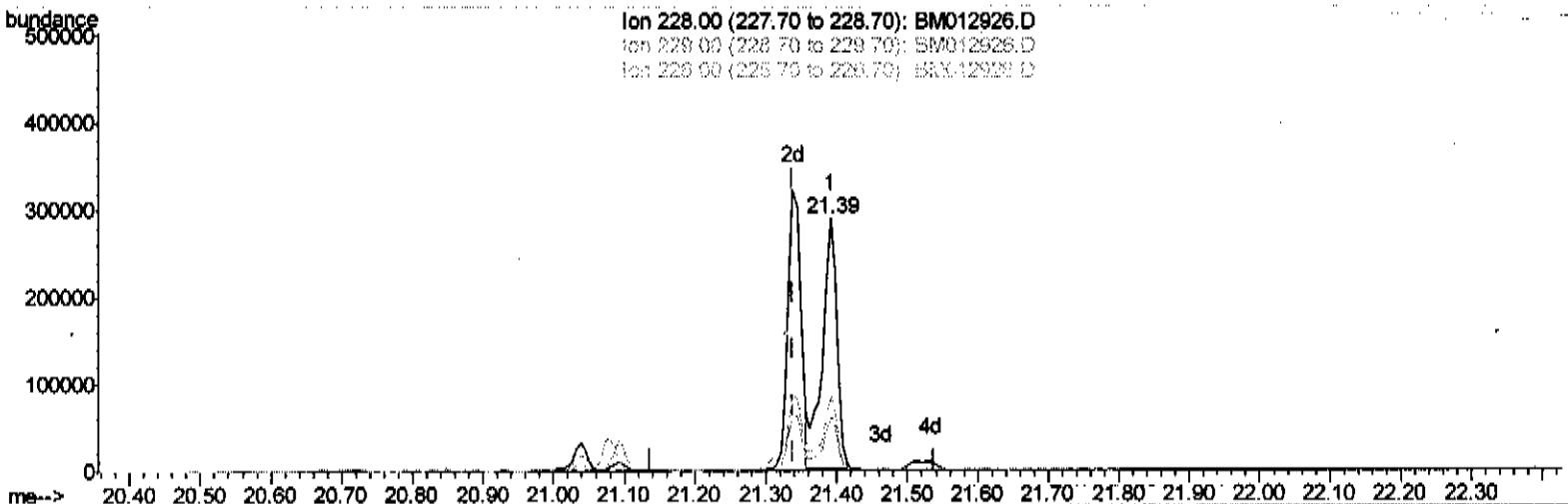
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:57:04 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(20) Benzo(a)anthracene

21.391min (+0.053) 11.56ng/ul

response 408723

Ion	Exp%	Act%
228.00	100	100
229.00	19.60	21.18
226.00	26.40	30.10
0.00	0.00	0.00

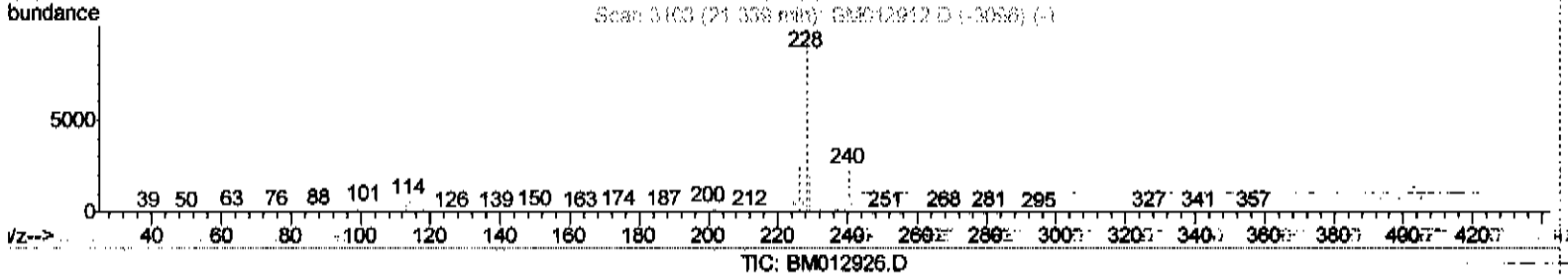
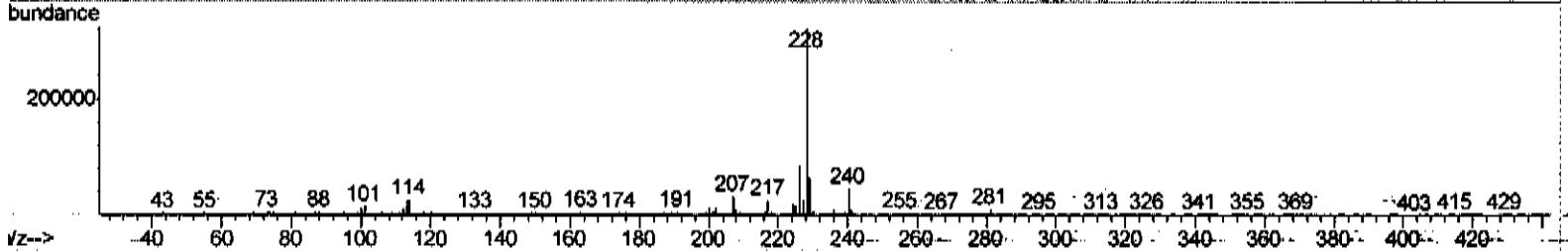
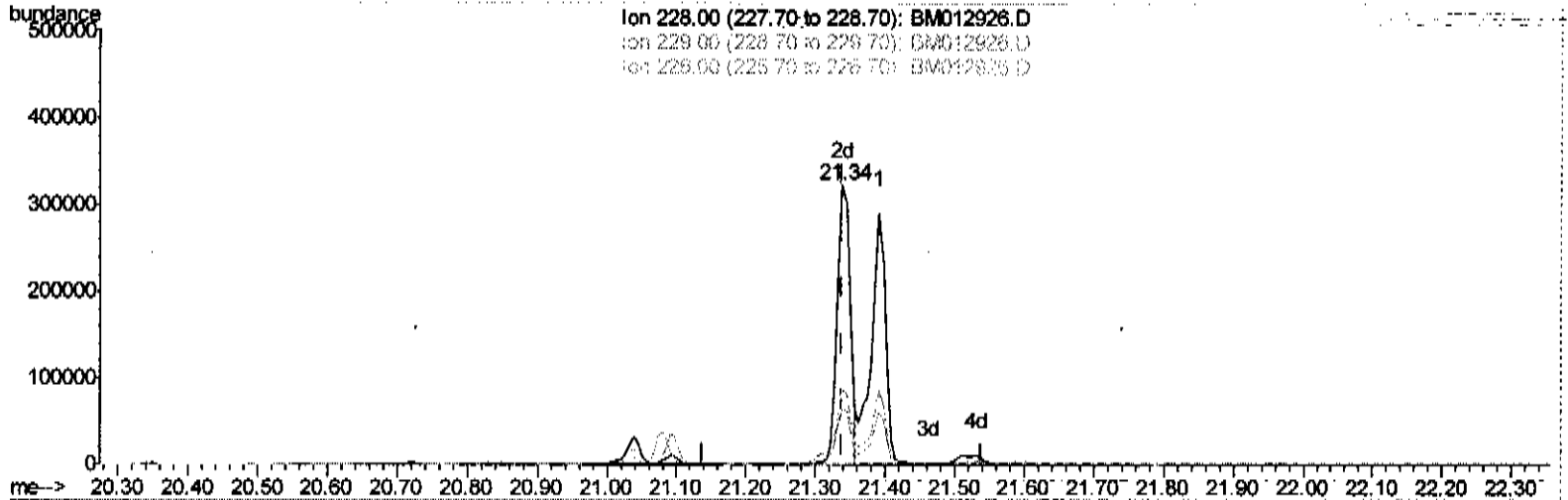
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHK0

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:57:04 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(20) Benzo(a)anthracene

21.339min (-0.000) 11.99ng/ul m

response 424070

Ion	Exp%	Act%
228.00	100	100
229.00	19.60	19.98
226.00	26.40	26.84
0.00	0.00	0.00

SJ 11/13/17

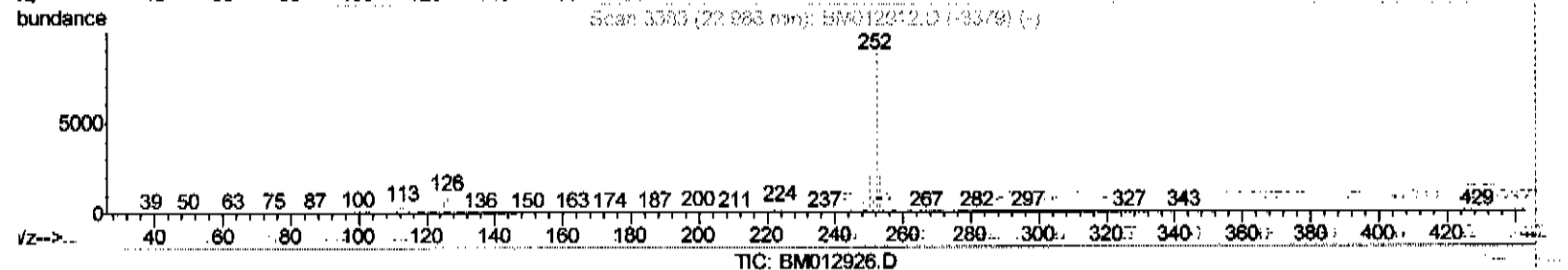
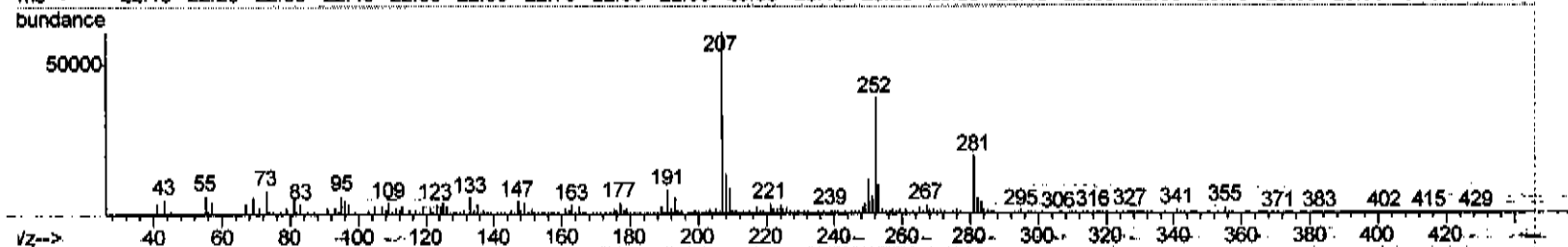
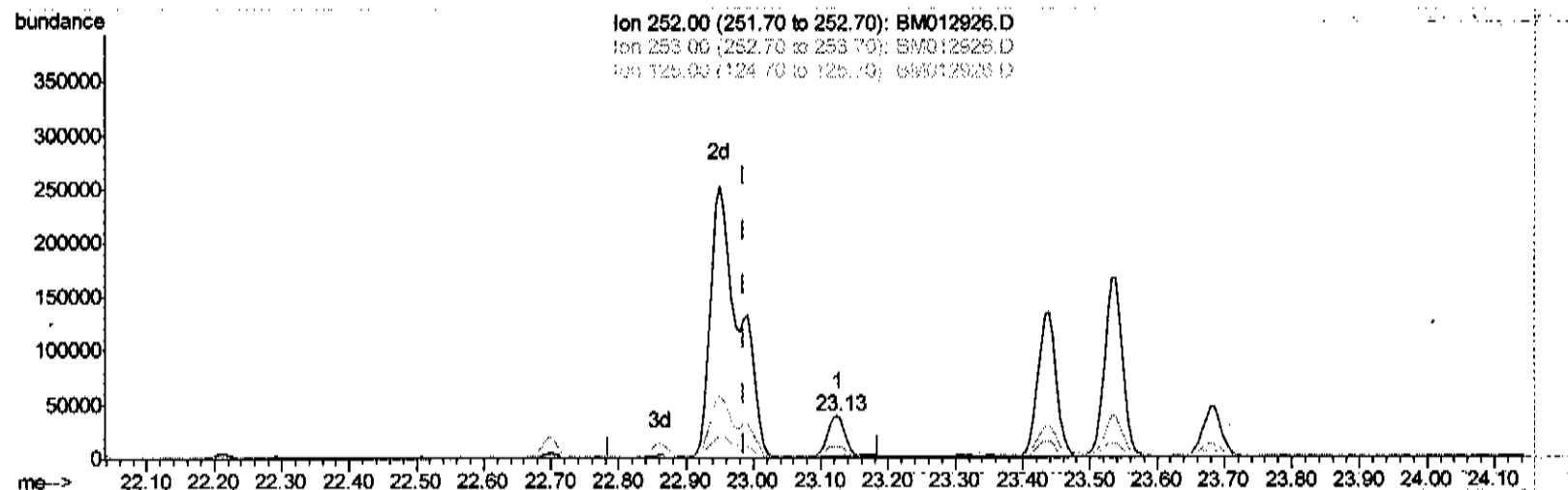
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHK0

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:57:04 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(24) Benzo(k)fluoranthene

23.127min (+0.141) 1.77ng/ul

response 65727

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	26.75
125.00	10.10	11.86
0.00	0.00	0.00

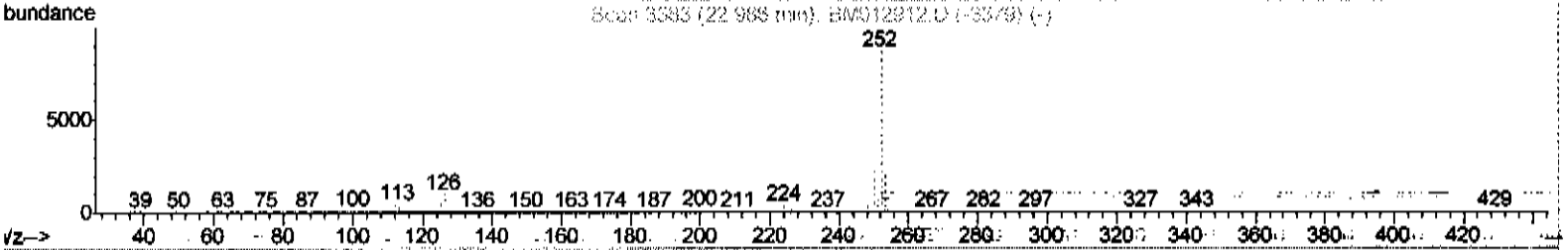
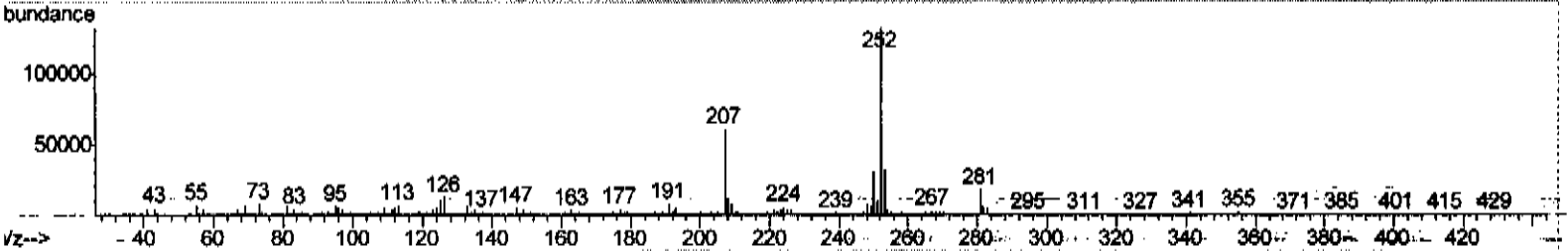
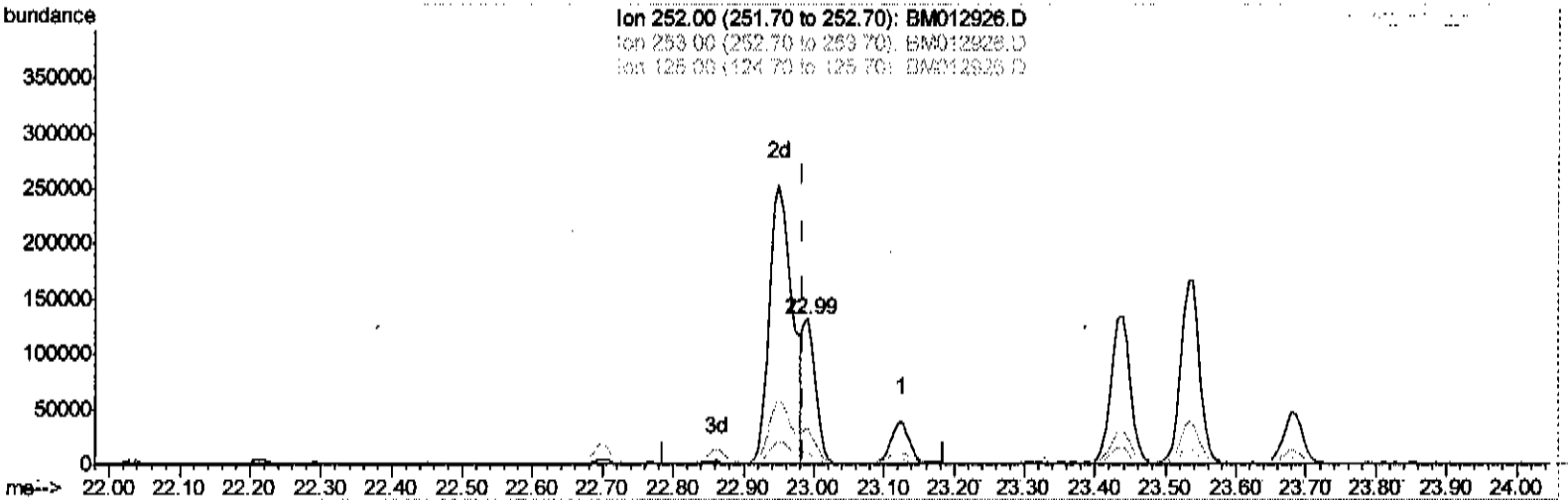
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DAHK0

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:57:04 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



TIC: BM012926.D

(24) Benzo(k)fluoranthene

22.991min (+0.006) 4.53ng/ul m

response 168393

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	24.00
125.00	10.10	7.65#
0.00	0.00	0.00

Handwritten signature/initials

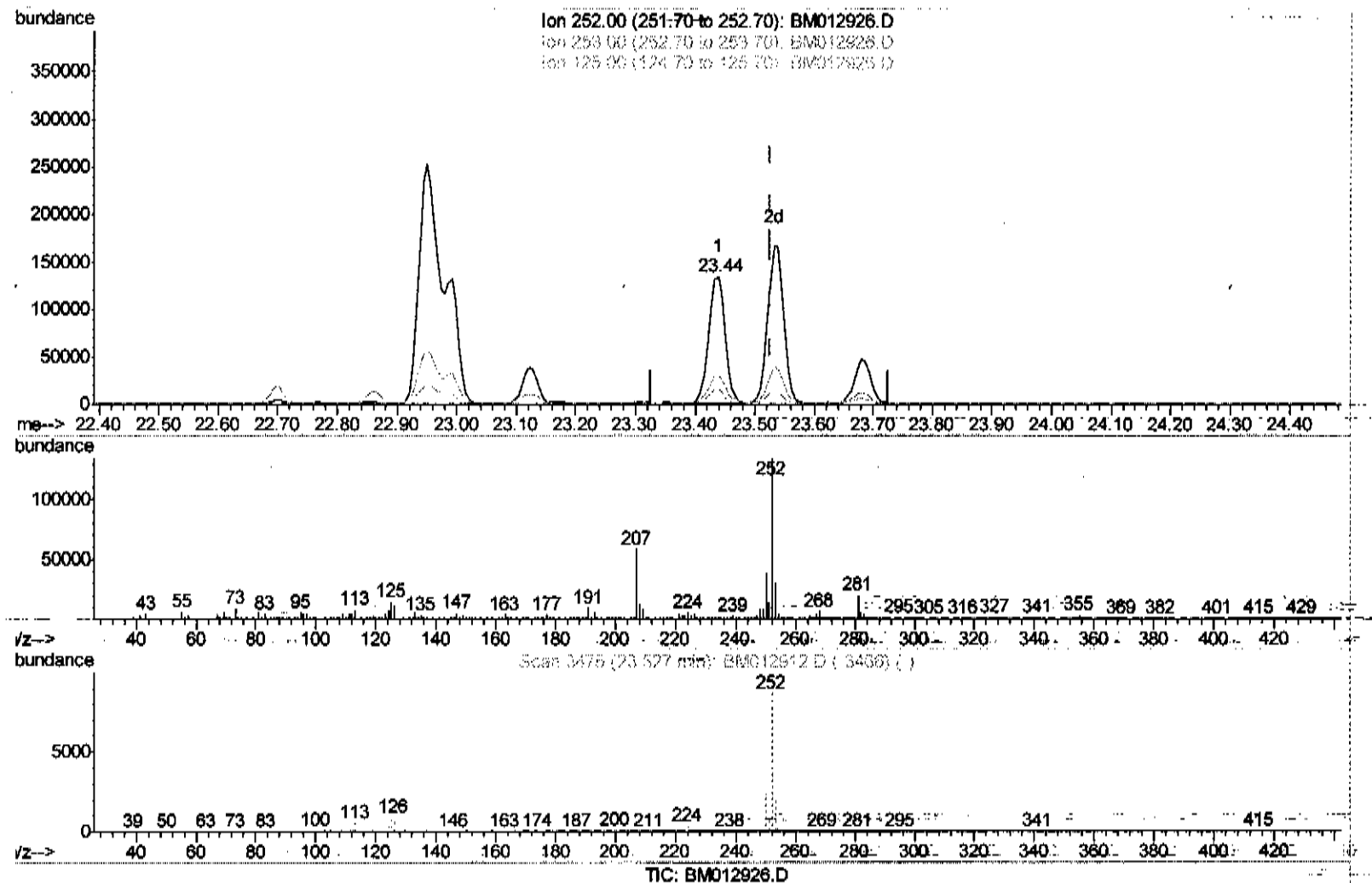
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:57:04 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration

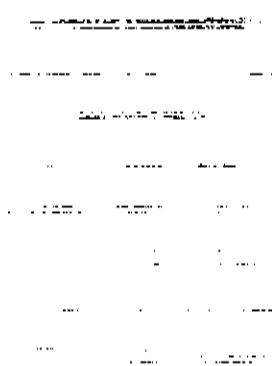


(26) Benzo(a)pyrene (C)

23.438min (-0.088) 6.71ng/ul

response 253076

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	22.36
125.00	10.30	10.78
0.00	0.00	0.00



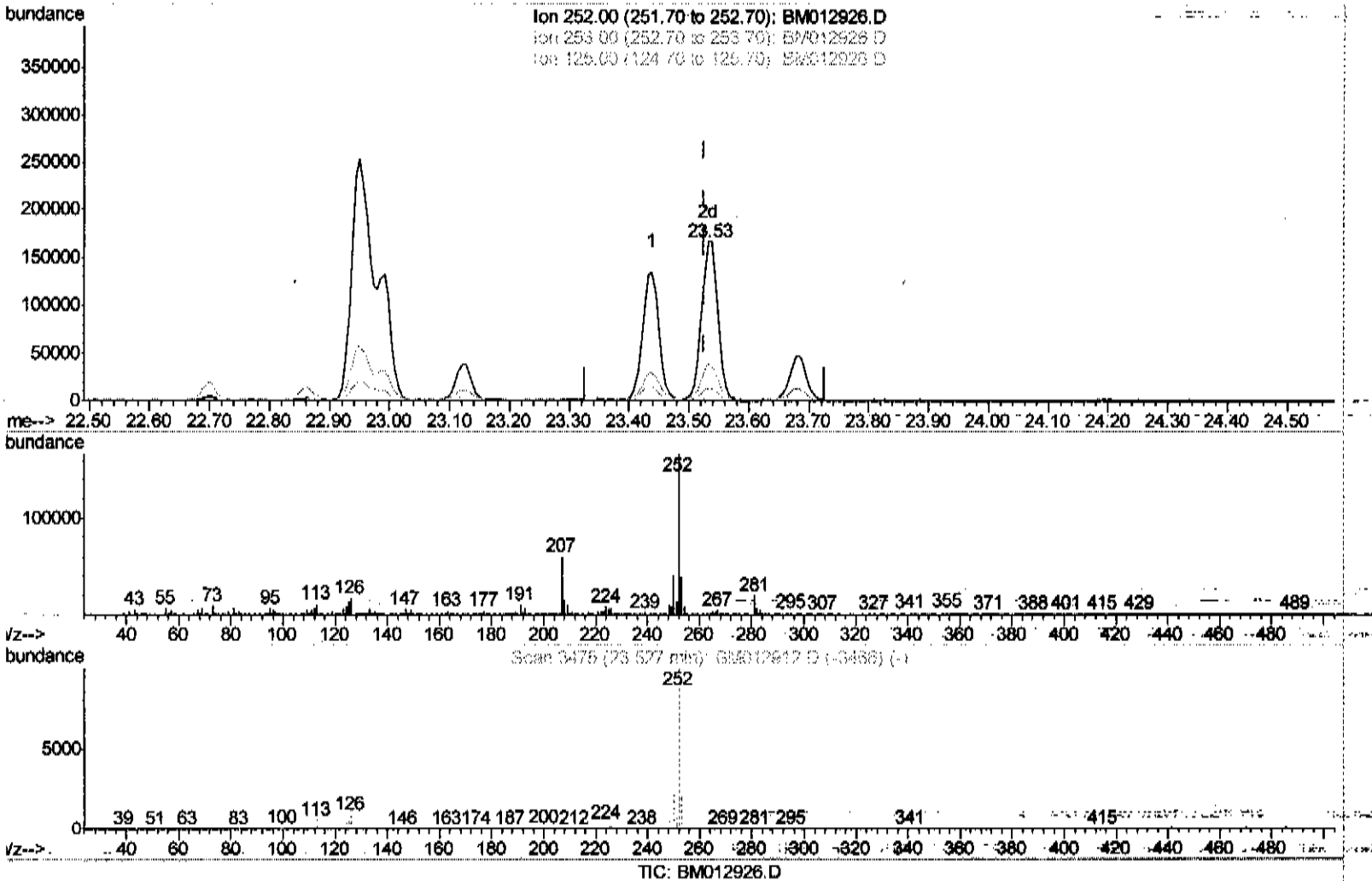
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:57:04 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration



(26) Benzo(a)pyrene (C)

23.533min (+0.006) 8.08ng/ul m

response 304651

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	23.59
125.00	10.30	7.85#
0.00	0.00	0.00

ju 11/13/17

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111017\
 Data File : BM012926.D
 Acq On : 12 Nov 2017 05:27
 Operator : SJ/JU
 Sample : I6317-16
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DAHKO

Manual Integrations
 APPROVED

SOHIL
 11/13/2017 4:50:09 PM

Quant Time: Nov 13 03:58:19 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M
 Quant Title : SVOA CALIBRATION
 Qlast Update : Mon Nov 13 02:06:47 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	90700	20.00	ng/ul	0.00
2) Naphthalene-d8	10.57	136	345136	20.00	ng/ul	0.00
6) Acenaphthene-d10	14.42	164	201481	20.00	ng/ul	0.00
12) Phenanthrene-d10	17.17	188	462093m	20.00	ng/ul	0.00
17) Chrysene-d12	21.36	240	574697m	20.00	ng/ul	0.00
22) Perylene-d12	23.63	264	653538	20.00	ng/ul	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
7) Acenaphthylene-d8	14.12	160	274693	13.11	ng/ul	0.00
10) Fluorene-d10	15.42	176	199523	13.92	ng/ul	0.00
14) Anthracene-d10	17.27	188	311569	13.95	ng/ul	0.00
18) Pvrene-d10	19.57	212	345831m	13.45	ng/ul	0.00
25) Benzo(a)pyrene-d12	23.49	264	426237	13.81	ng/ul	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Ovalue
13) Phenanthrene	17.22	178	446589m	17.50	ng/ul	98	
15) Anthracene	17.30	178	103787	3.91	ng/ul	98	
16) Fluoranthene	19.23	202	1097561m	34.96	ng/ul	98	
19) Pvrene	19.60	202	746300m	22.62	ng/ul	98	
20) Benzo(a)anthracene	21.34	228	424070m	11.99	ng/ul	98	
21) Chrysene	21.39	228	408444	12.92	ng/ul	98	
23) Benzo(b)fluoranthene	22.95	252	569515	14.65	ng/ul	98	
24) Benzo(k)fluoranthene	22.99	252	168393m	4.53	ng/ul	94	
26) Benzo(a)pyrene	23.53	252	304651m	8.08	ng/ul	79	
27) Indeno(1,2,3-cd)pyrene	25.94	276	252575	5.20	ng/ul	94	
28) Dibenzo(a,h)anthracene	25.94	278	84424	2.07	ng/ul	95	
29) Benzo(a,h,i)perylene	26.65	276	206283	5.08	ng/ul	95	

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