

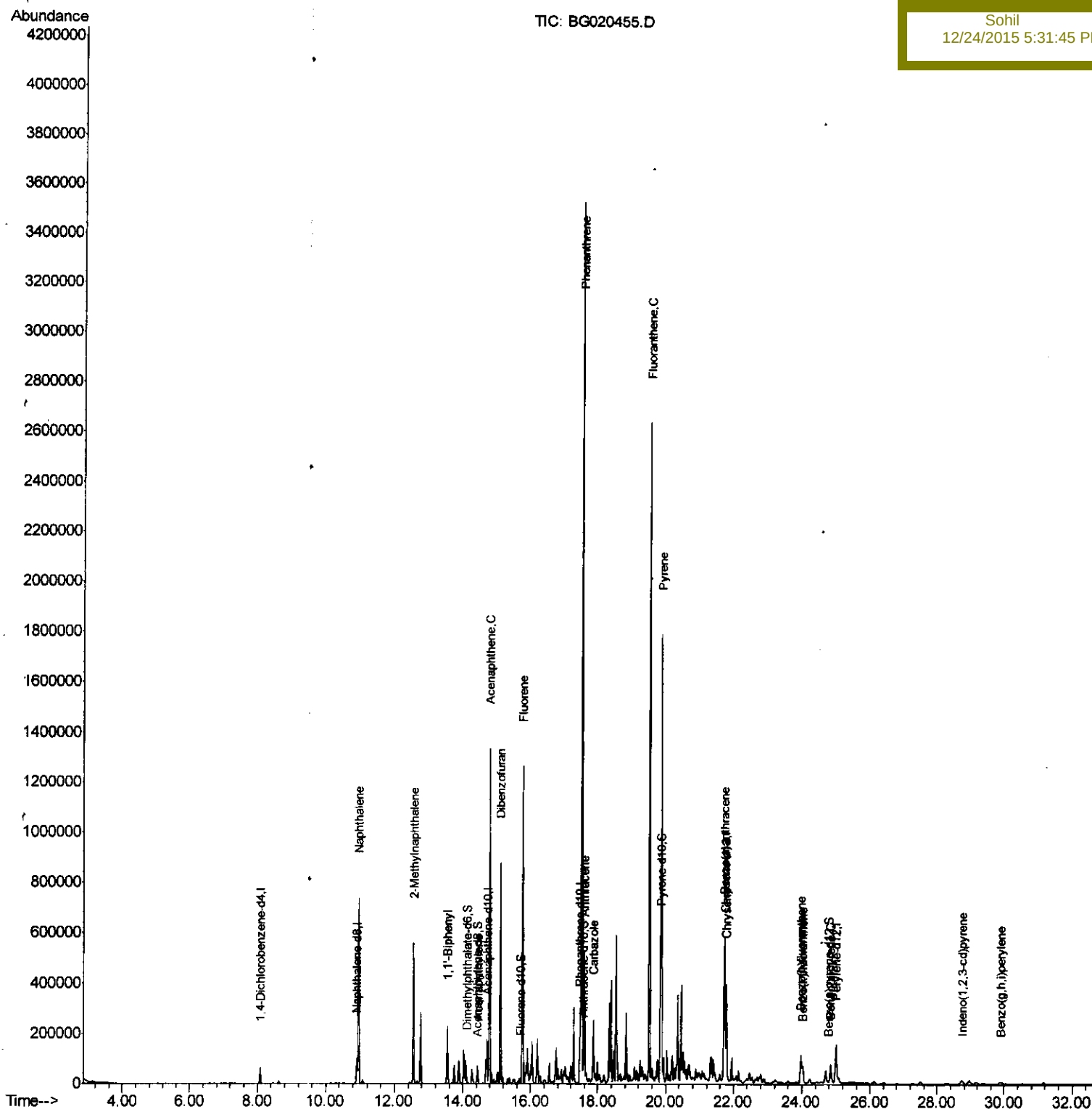
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:08:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 02:43:25 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9N63DL

Manual Integrations
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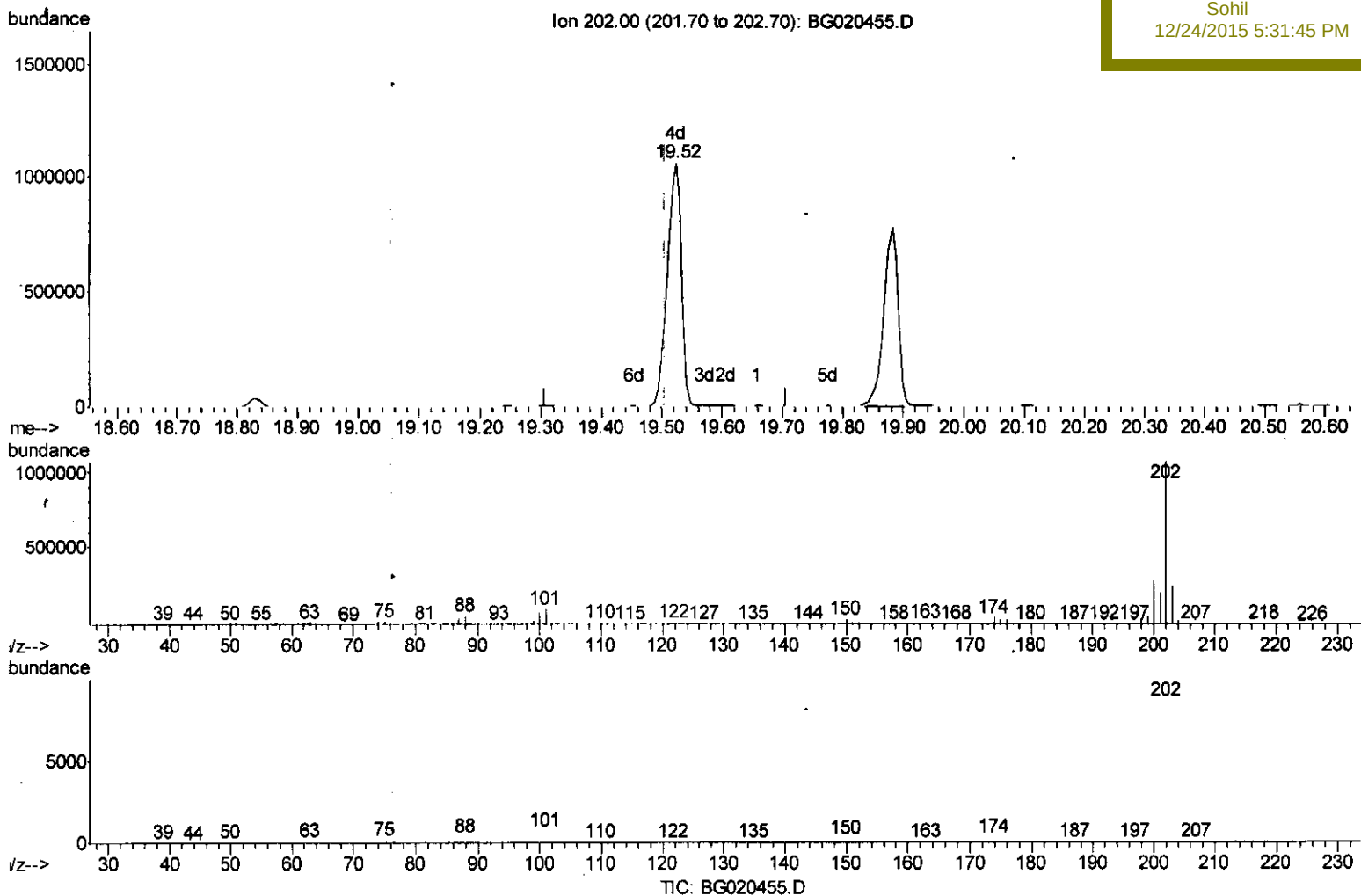
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:06:41 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
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(77) Fluoranthene (C)

19.524min (+0.017) 185.44ng/ul m

response 1754335

Ion	Exp%	Act%
202.00	100	100
101.00	7.80	9.41#
100.00	6.40	7.57
0.00	0.00	0.00

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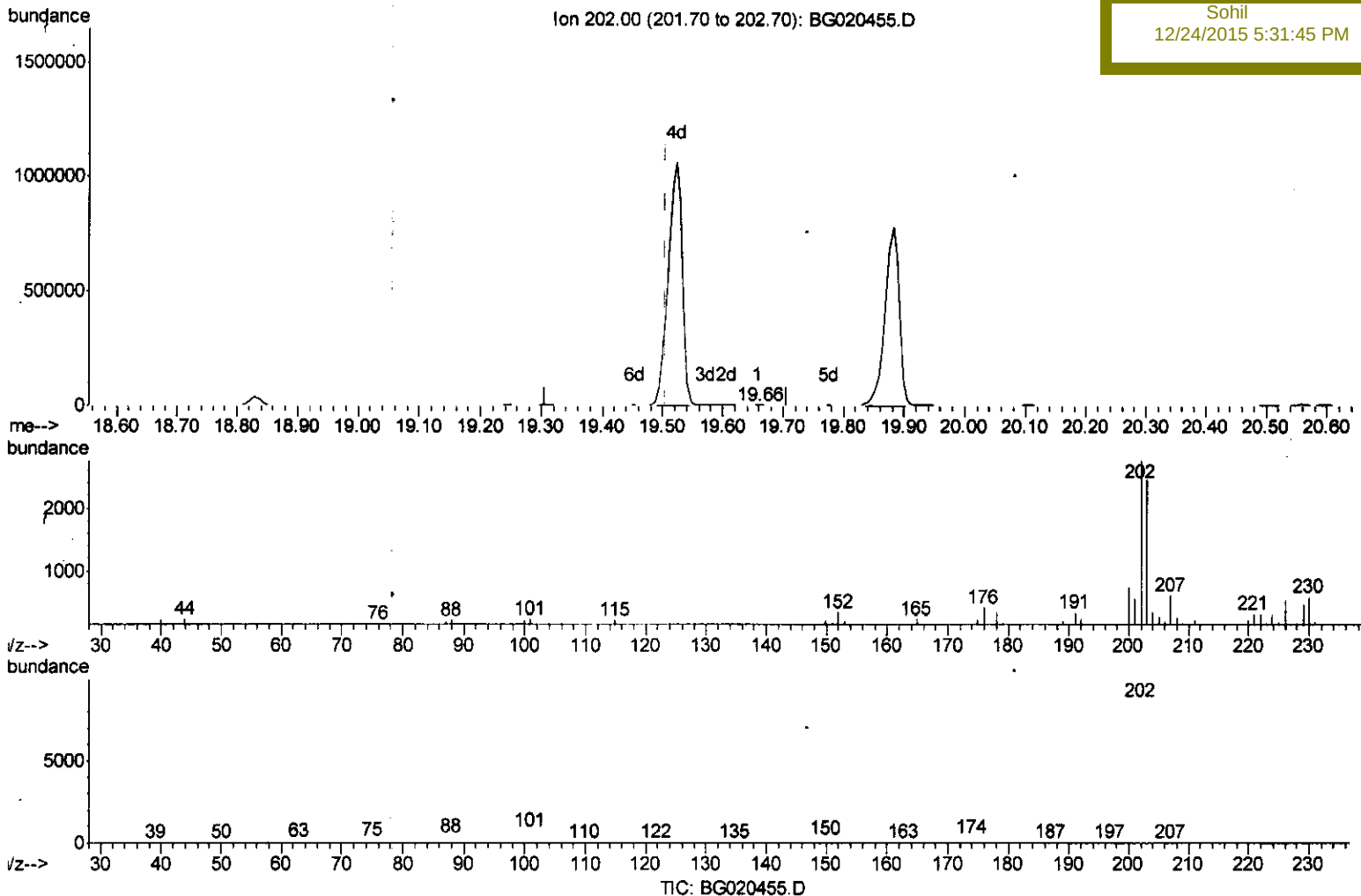
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:06:41 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
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(77) Fluoranthene (C)

19.659min (+0.153) 0.26ng/ul

response 2442

Ion	Exp%	Act%
202.00	100	100
101.00	7.80	8.81
100.00	6.40	7.43
0.00	0.00	0.00

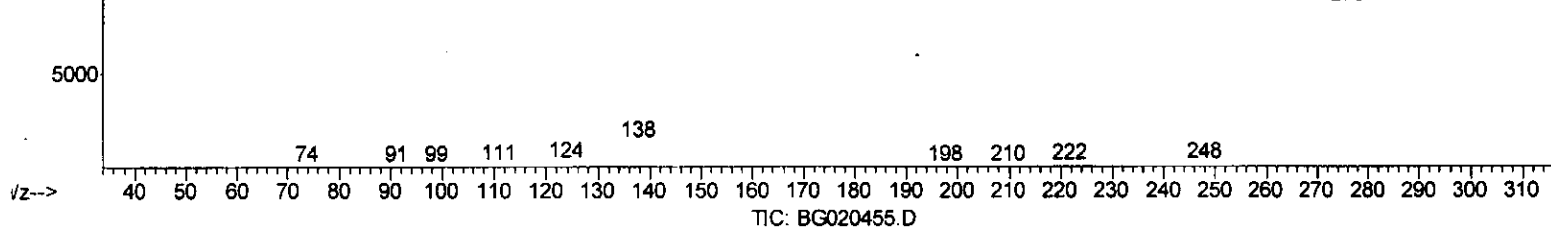
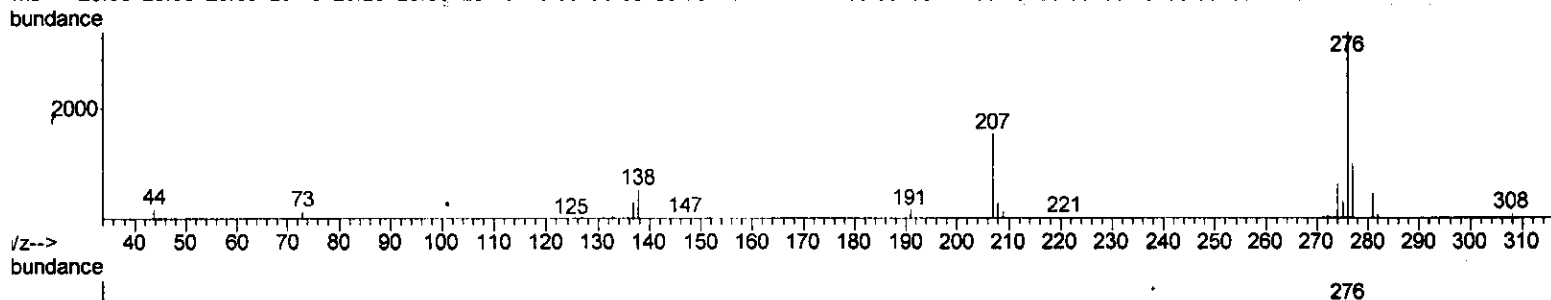
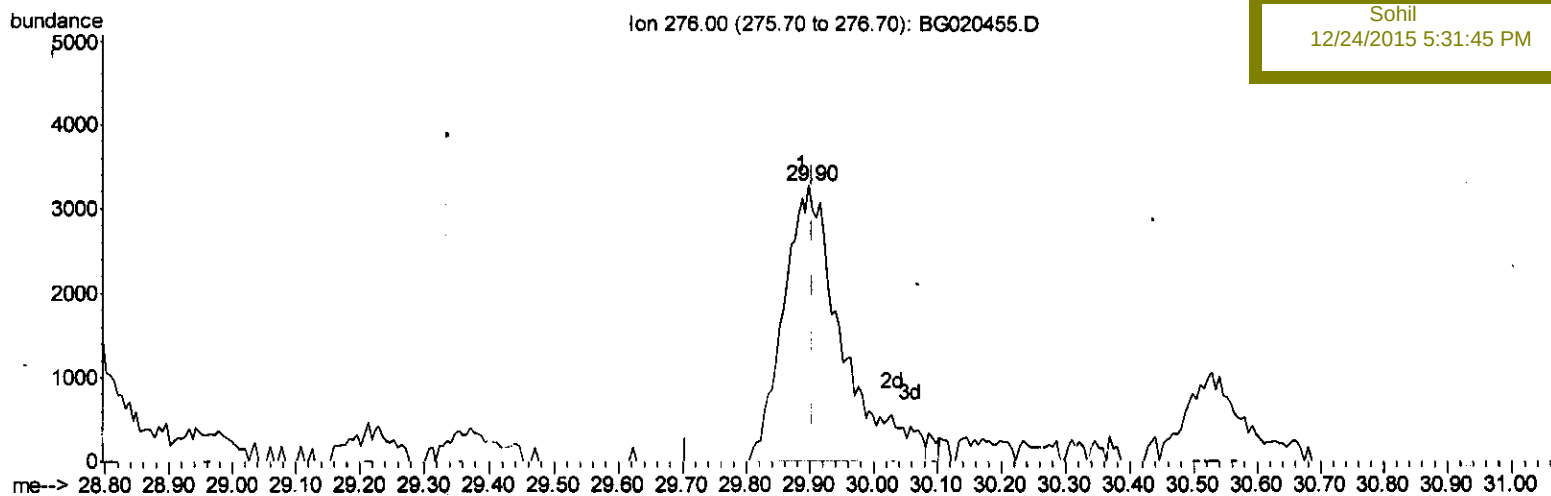
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:03:39 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
 APPROVED

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(94) Benzo(g,h,i)perylene
 29.900min (-0.006) 2.09ng/ul m
 response 20878

Ion	Exp%	Act%
276.00	100	100
138.00	13.50	19.39#
277.00	24.90	32.74#
0.00	0.00	0.00

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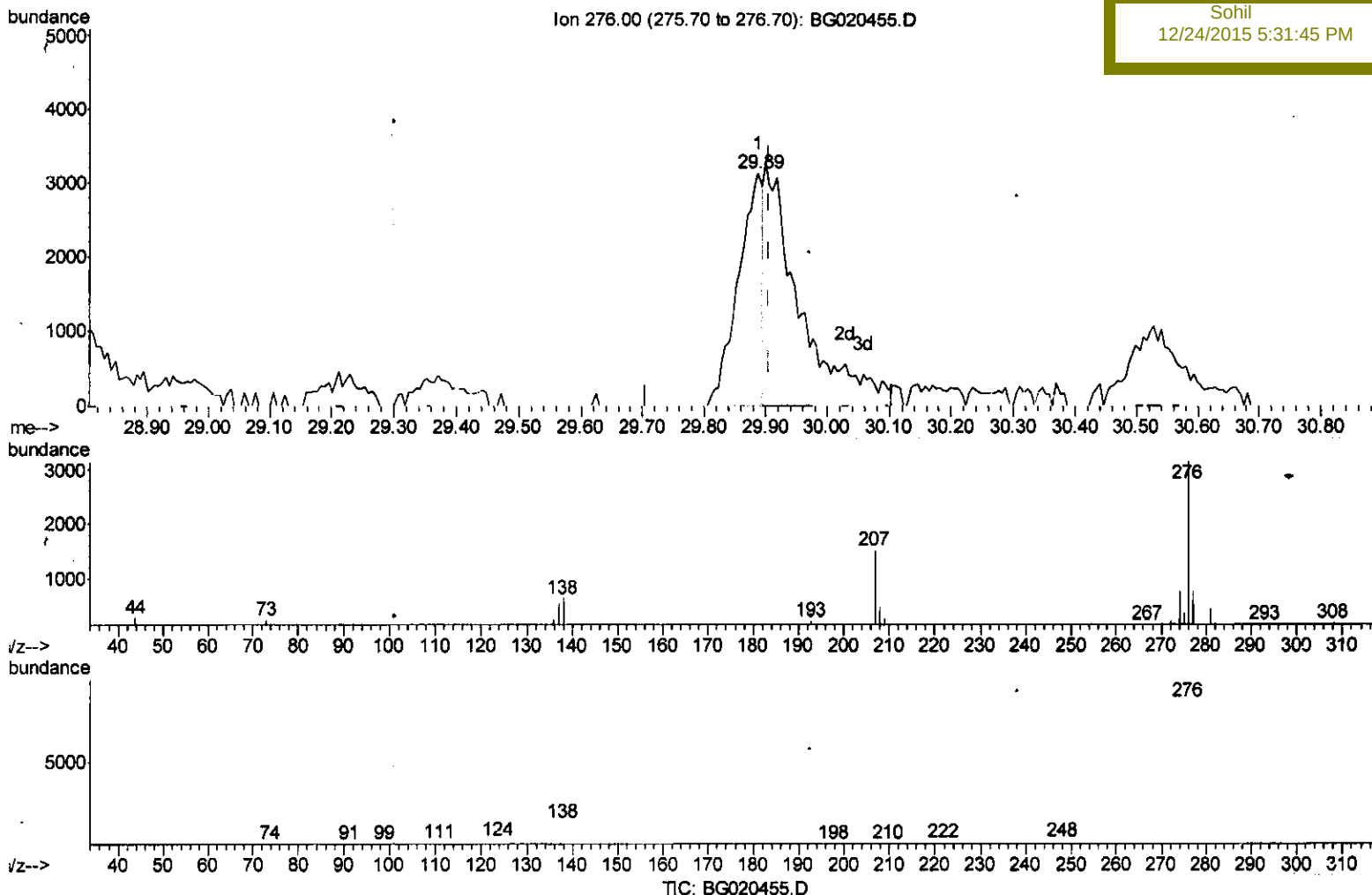
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:03:39 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 02:43:25 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9N63DL

Manual Integrations
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Sohil
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(94) Benzo(g,h,i)perylene

29.888min (-0.018) 0.84ng/ul

response 8400

Ion	Exp%	Act%
276.00	100	100
138.00	13.50	20.69#
277.00	24.90	24.55
0.00	0.00	0.00

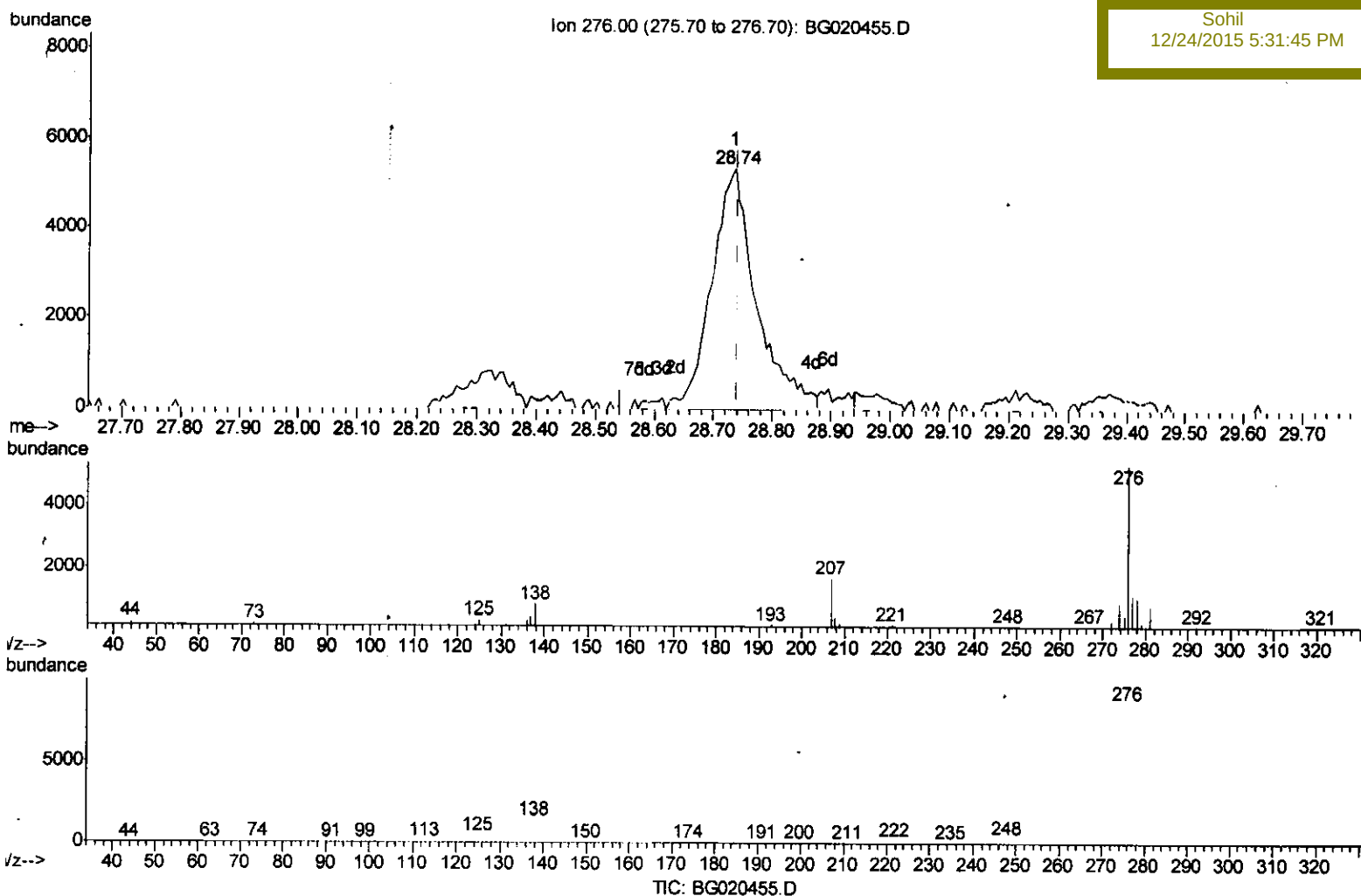
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:03:39 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
 APPROVED

Sohil
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(92) Indeno(1,2,3-cd)pyrene

28.736min (-0.006) 2.33ng/ul m

response 28377

Ion	Exp%	Act%
276.00	100	100
138.00	14.20	15.91
277.00	21.70	21.81
0.00	0.00	0.00

U.M
 12/23/15

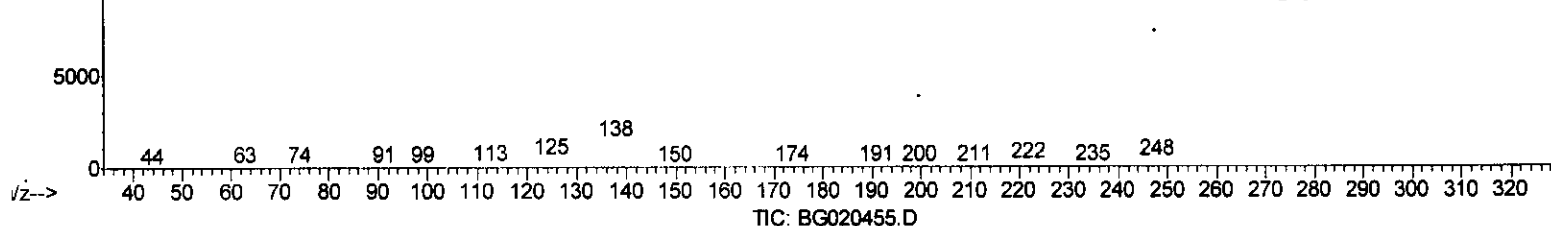
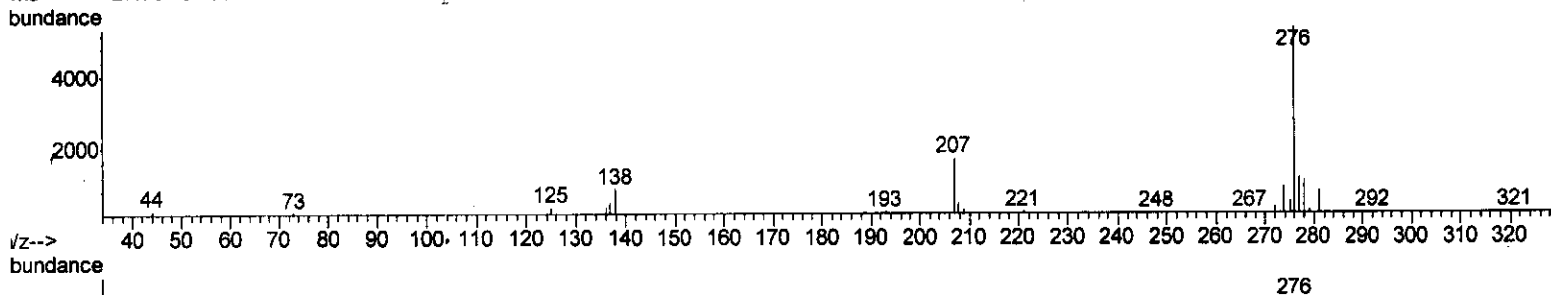
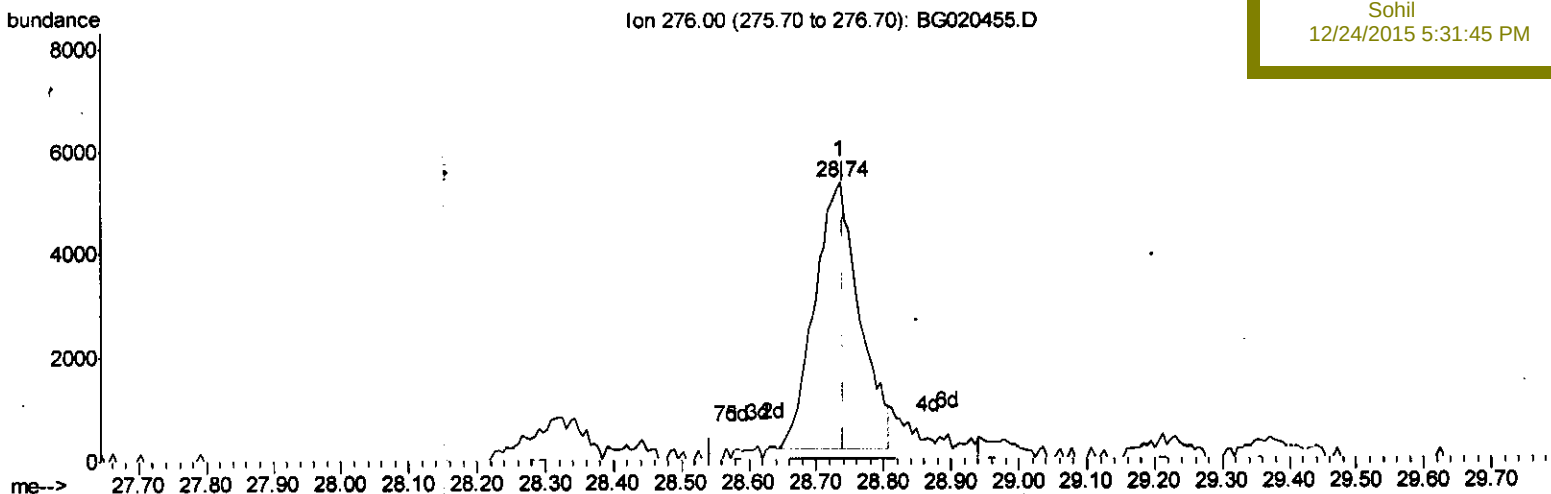
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:03:39 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
 APPROVED

Sohil
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(92) Indeno(1,2,3-cd)pyrene

28.736min (-0.006) 1.95ng/ul

response 23753

Ion	Exp%	Act%
276.00	100	100
138.00	14.20	15.91
277.00	21.70	21.81
0.00	0.00	0.00

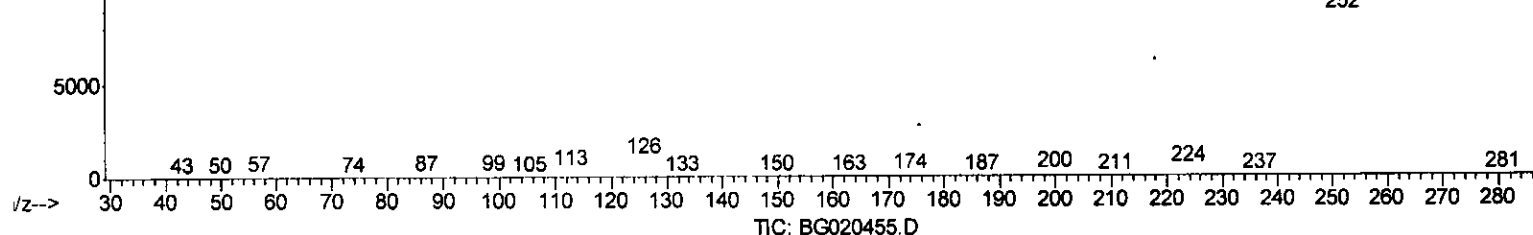
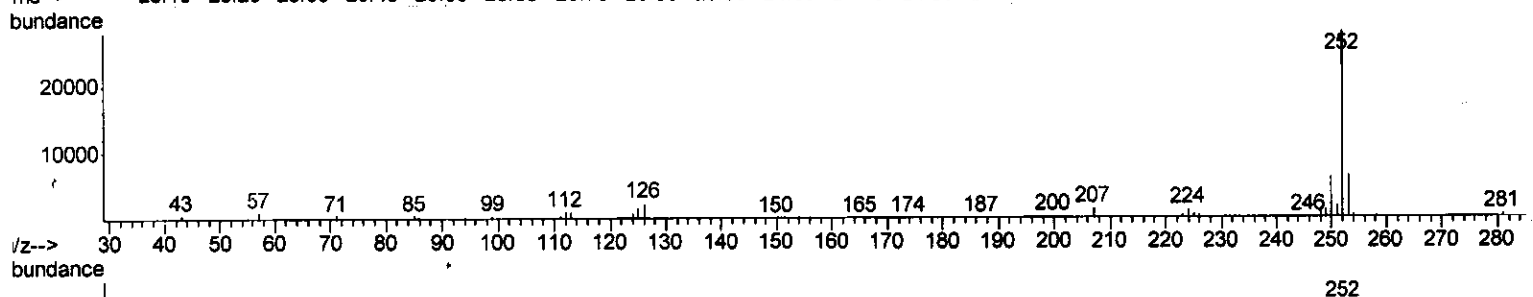
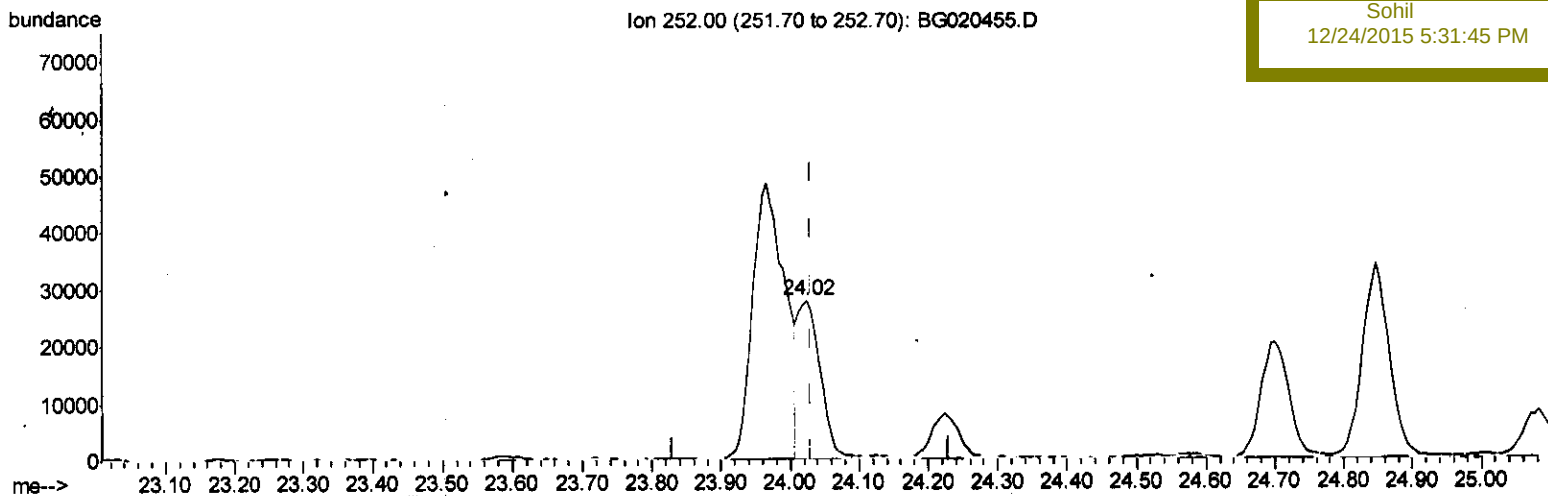
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:03:39 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampled :
 D9N63DL

Manual Integrations
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(89) Benzo(k)fluoranthene

24.024min (-0.006) 6.07ng/ul m

response 62909

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.74
125.00	7.20	5.77
0.00	0.00	0.00

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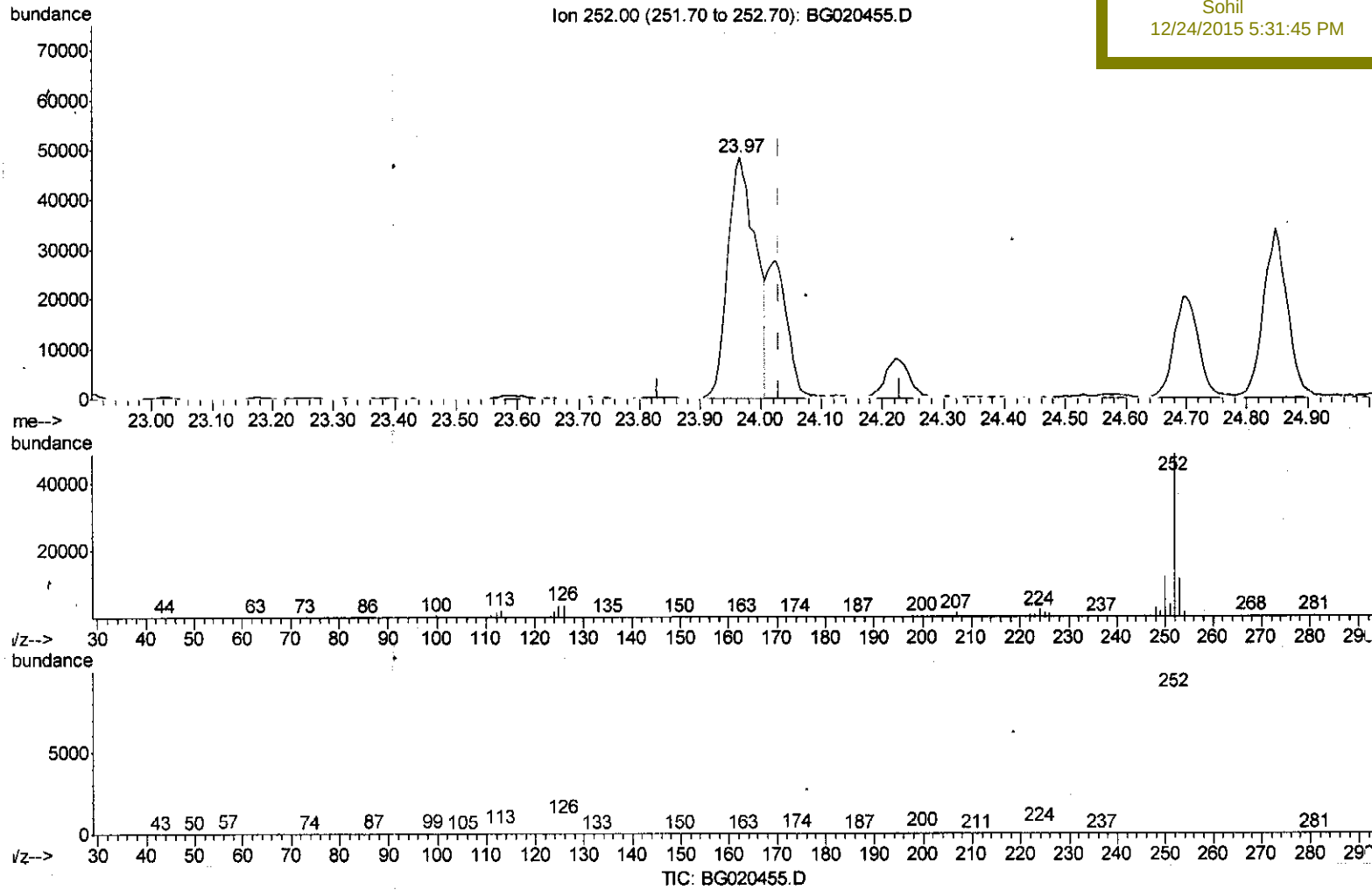
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:03:39 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
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(89) Benzo(k)fluoranthene

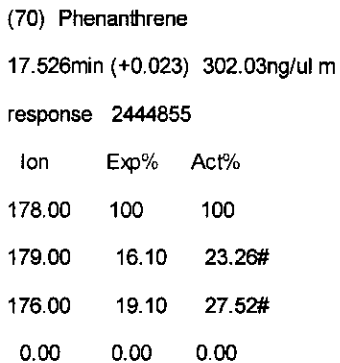
23.966min (-0.065) 15.17ng/ul

response 157190

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	23.70
125.00	7.20	6.85
0.00	0.00	0.00

Quant Time: Dec 24 04:03:39 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 02:43:25 2015
Response via : Initial Calibration

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12/23/15

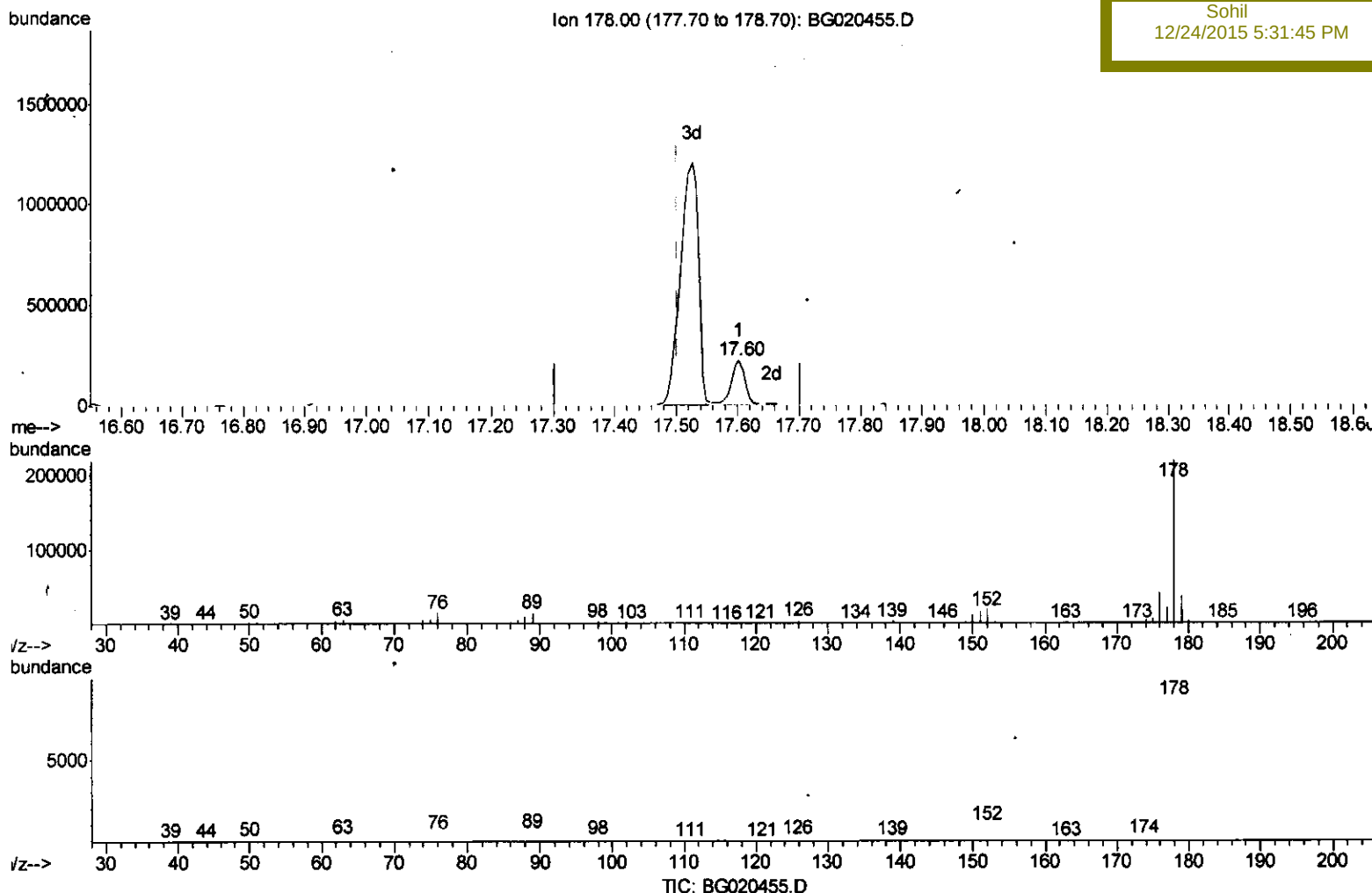
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:03:39 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
 APPROVED

Sohil
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(70) Phenanthrene

17.602min (+0.100) 40.67ng/ul

response 329211

Ion	Exp%	Act%
178.00	100	100
179.00	16.10	16.66
176.00	19.10	18.80
0.00	0.00	0.00

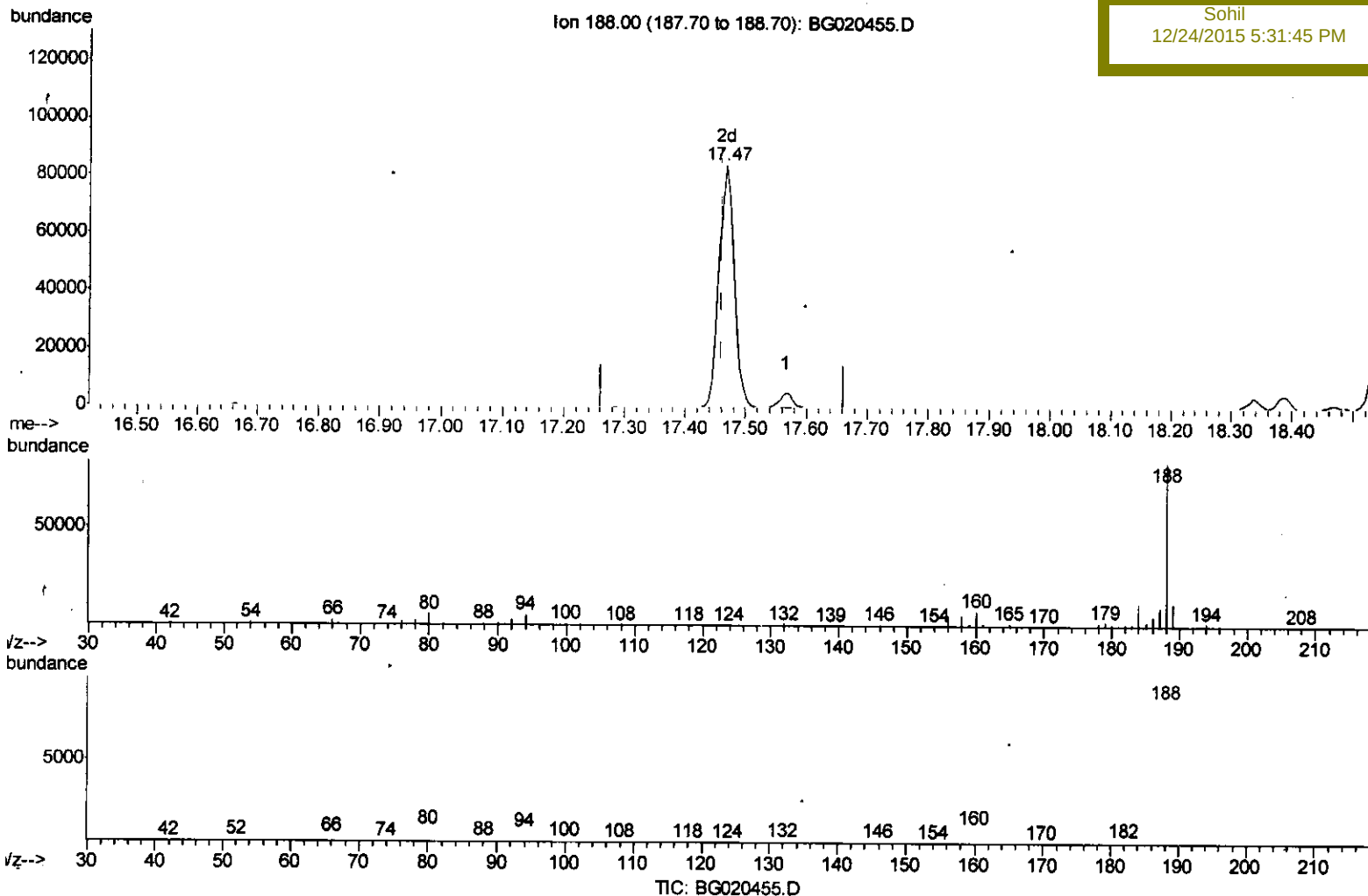
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 02:52:21 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
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(62) Phenanthrene-d10 (I)

17.467min (+0.006) 20.00ng/ul m

response 147990

Ion Exp% Act%

188.00 100 100

94.00 6.90 6.53

80.00 8.90 6.89#

0.00 0.00 0.00

U.M
 12/23/15

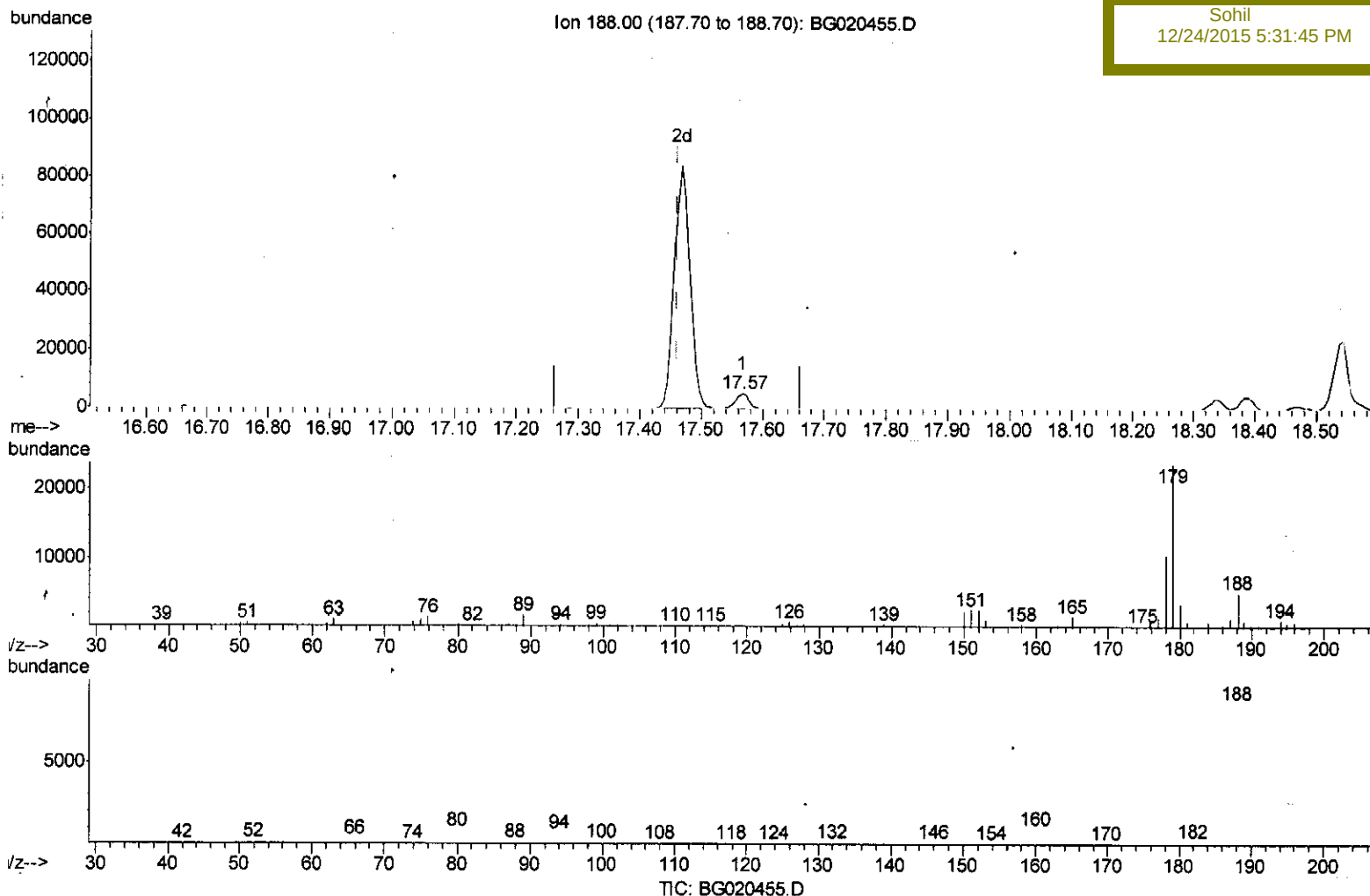
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 02:52:21 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
 APPROVED

Sohil
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(62) Phenanthrene-d10 (I)

17.567min (+0.106) 20.00ng/ul

response 7500

Ion	Exp%	Act%
188.00	100	100
94.00	6.90	7.91
80.00	8.90	8.31
0.00	0.00	0.00

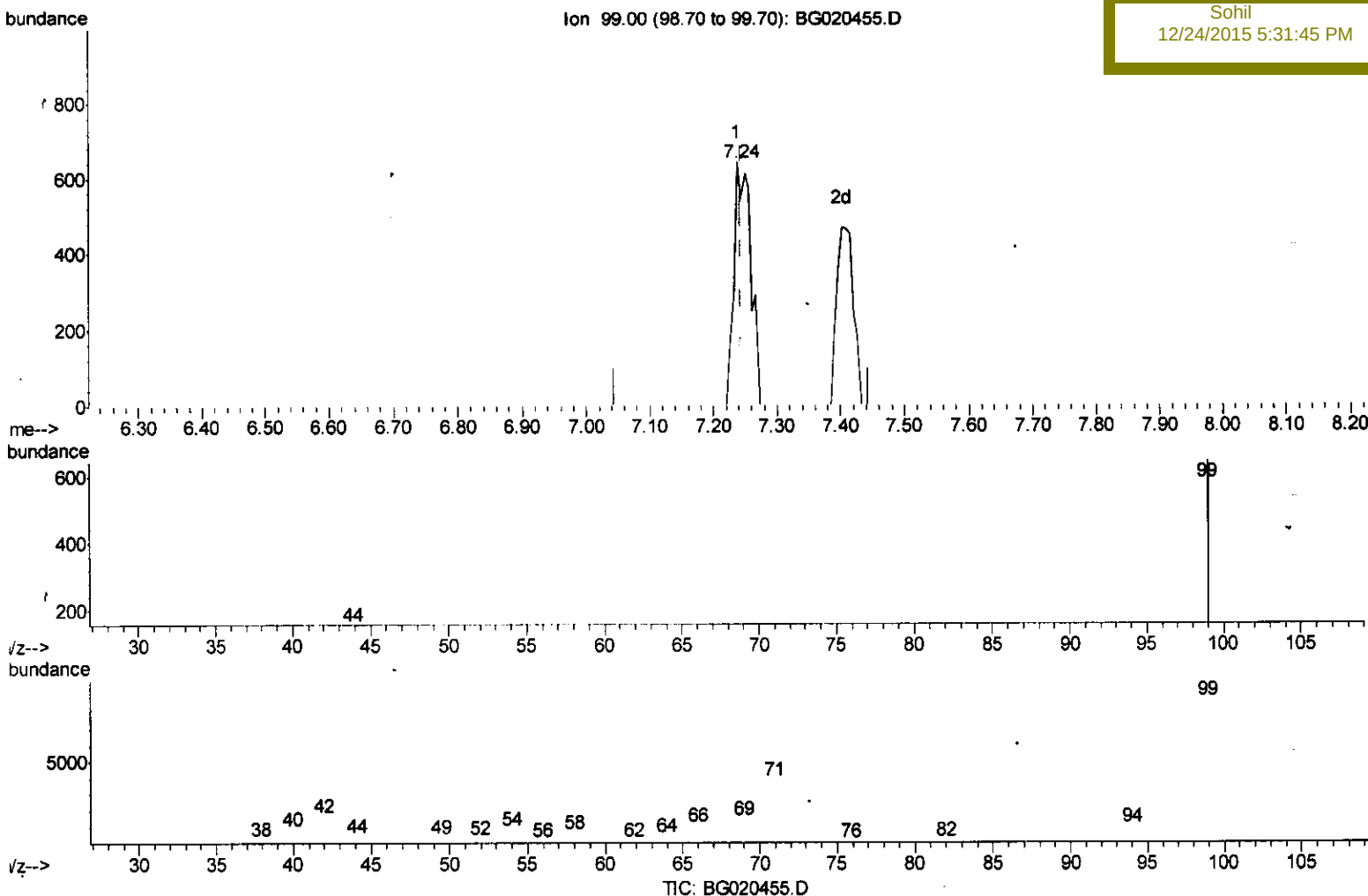
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 02:52:21 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
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(5) Phenol-d5 (S)

7.238min (-0.006) 0.64ng/ul m

response 1183

Ion	Exp%	Act%
99.00	100	100
71.00	39.20	0.00#
42.00	20.00	0.00#
0.00	0.00	0.00

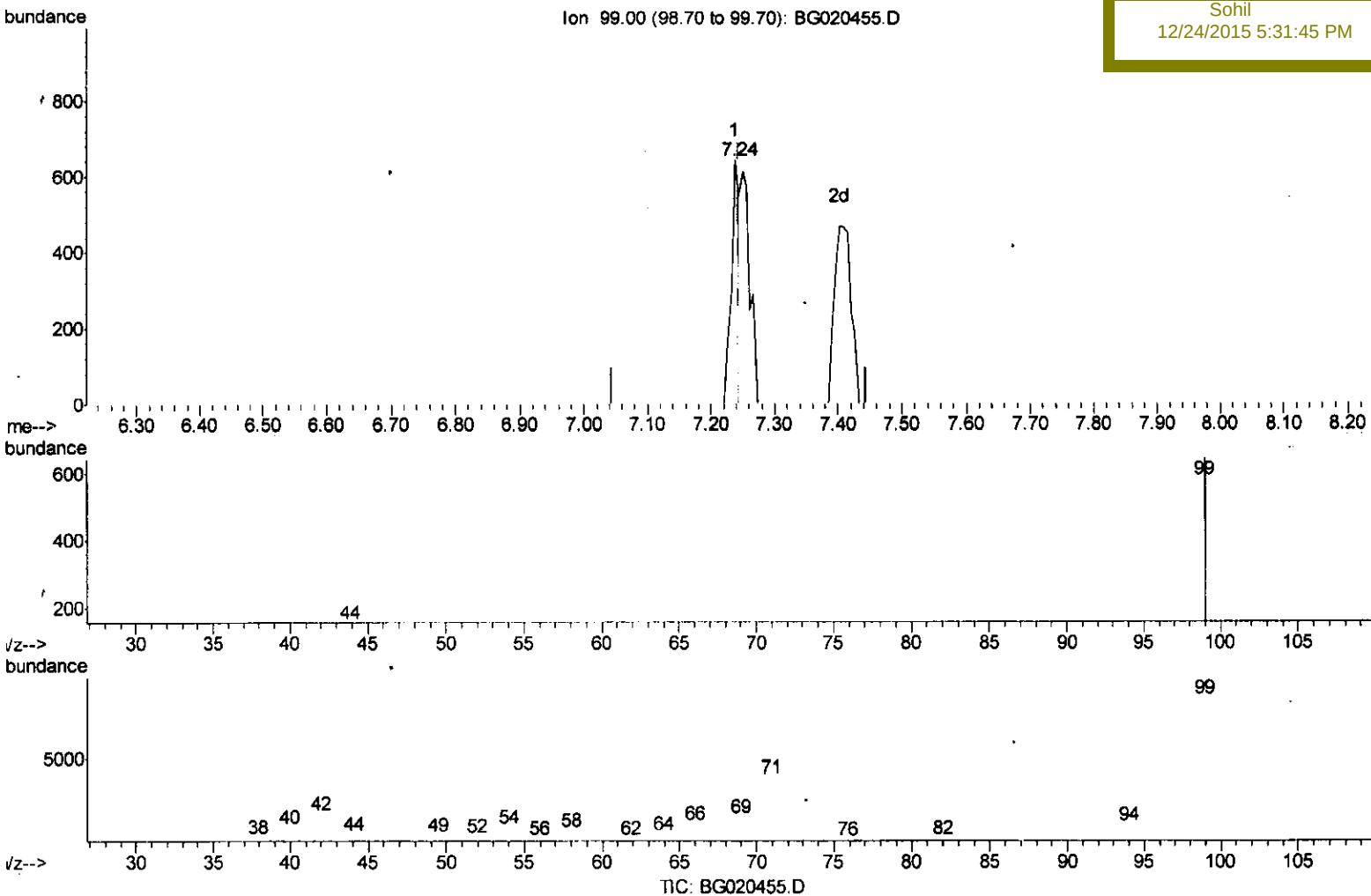
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Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020455.D
 Acq On : 23 Dec 2015 22:45
 Operator : UM/SJ
 Sample : G4848-17DL 30X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 02:52:21 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N63DL

Manual Integrations
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(5) Phenol-d5 (S)
 7.238min (-0.006) 0.31ng/ul
 response 578

Ion	Exp%	Act%
99.00	100	100
71.00	39.20	0.00#
42.00	20.00	0.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 24 04:08:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 02:43:25 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9N63DL

Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	20810	20.00	ng/ul	0.00
18) Naphthalene-d8	10.90	136	92621	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.72	164	63504	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	147990m	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	184942	20.00	ng/ul	0.00
86) Perylene-d12	25.00	264	179427	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/ul	
5) Phenol-d5	7.24	99	1183m	0.64	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	656	0.60	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	814	0.61	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	936	0.60	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	369	0.51	ng/ul	0.00
22) 2-Nitrophenol-d4	9.98	143	410	0.51	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.52	165	1065	0.65	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	1197	0.65	ng/ul	0.01
44) Dimethylphthalate-d6	14.11	166	5217	1.02	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	6040	1.01	ng/ul	0.00
52) 4-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
58) Fluorene-d10	15.71	176	4905	1.05	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	0.00	200	0d	0.00	ng/ul	
71) Anthracene-d10	17.57	188	7500	1.10	ng/ul	0.00
79) Pyrene-d10	19.85	212	8807	1.02	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	9443	1.06	ng/ul	0.00

Target Compounds

						Qvalue
28) Naphthalene	10.96	128	636791	131.65	ng/ul	98
34) 2-Methylnaphthalene	12.56	142	274128	74.20	ng/ul	96
41) 1,1'-Biphenyl	13.55	154	126932	26.49	ng/ul	96
48) Acenaphthylene	14.44	152	36889	5.81	ng/ul#	97
50) Acenaphthene	14.79	153	564520	132.15	ng/ul	98
54) Dibenzofuran	15.12	168	589005	92.69	ng/ul	99
59) Fluorene	15.77	166	585440	114.72	ng/ul	98
70) Phenanthrene	17.53	178	2444855m	802.03	ng/ul	
72) Anthracene	17.60	178	317932	38.72	ng/ul	98
75) Carbazole	17.87	167	161820	23.46	ng/ul	100
77) Fluoranthene	19.52	202	1754335m	85.44	ng/ul	
80) Pyrene	19.88	202	1267307	113.22	ng/ul	99
83) Benzo(a)anthracene	21.72	228	332713	30.83	ng/ul	98
85) Chrysene	21.79	228	295292	29.05	ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	157190	14.56	ng/ul	95
89) Benzo(k)fluoranthene	24.02	252	62909m	6.07	ng/ul	
91) Benzo(a)pyrene	24.85	252	89189	8.71	ng/ul	99
92) Indeno(1,2,3-cd)pyrene	28.74	276	28377m	2.33	ng/ul	
94) Benzo(g,h,i)perylene	29.90	276	20878m	2.09	ng/ul	

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

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