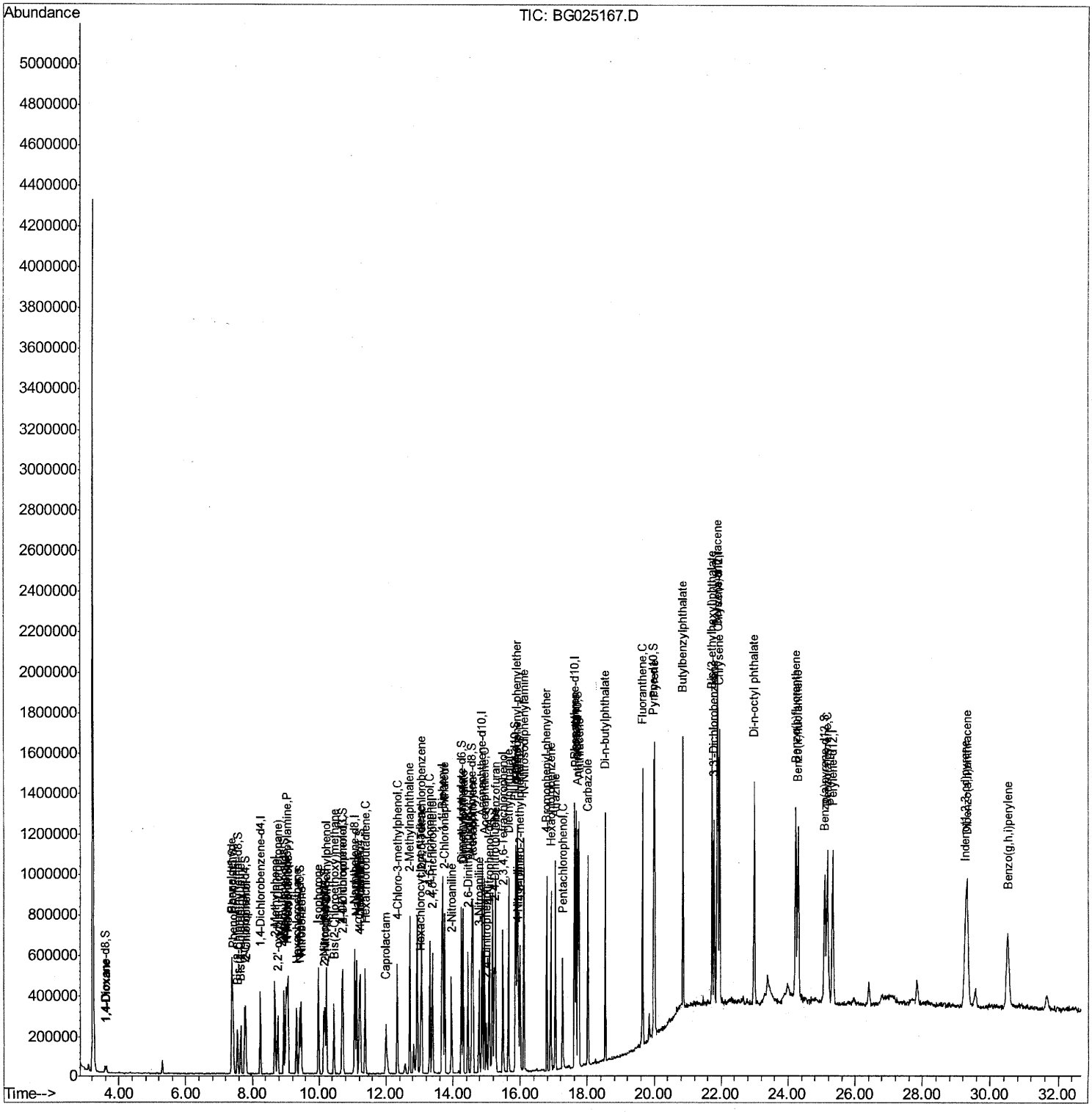
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 06:01:48 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM



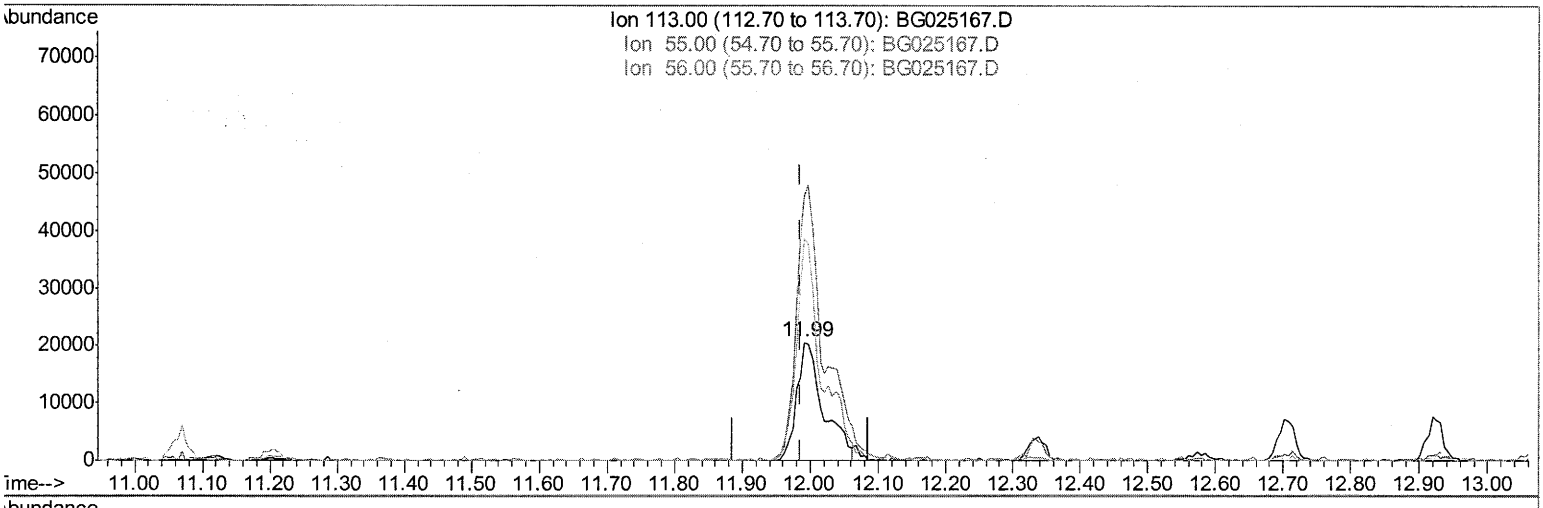
Quantitation Report (Qedit)

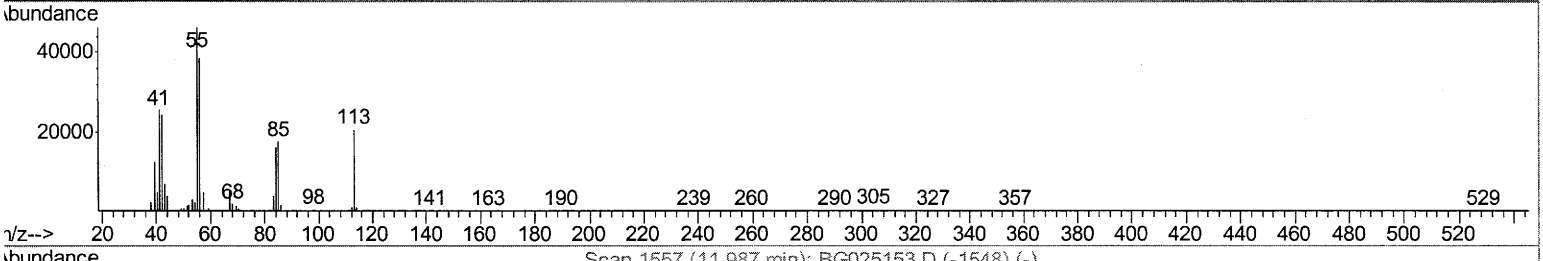
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

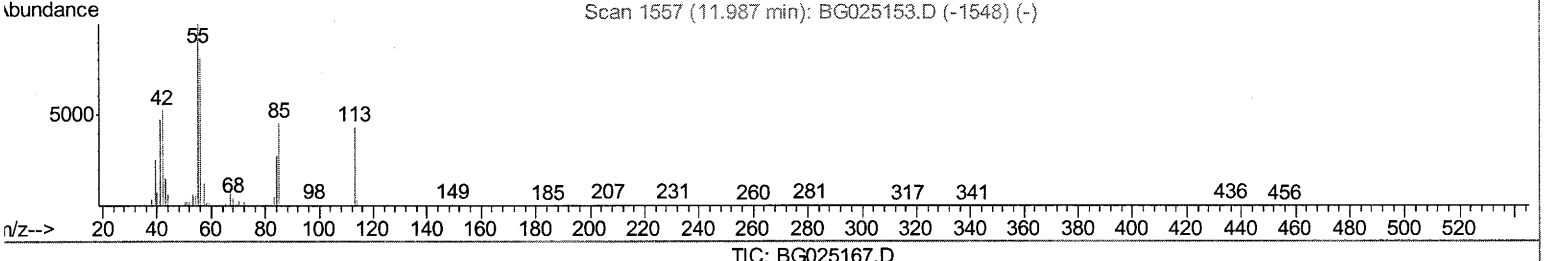
Quant Time: Dec 14 05:59:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM







TIC: BG025167.D

(32) Caprolactam

11.991min (+0.004) 17.05ng/ul

response 55671

Ion	Exp%	Act%
113.00	100	100
55.00	210.70	223.31
56.00	160.60	187.28
0.00	0.00	0.00

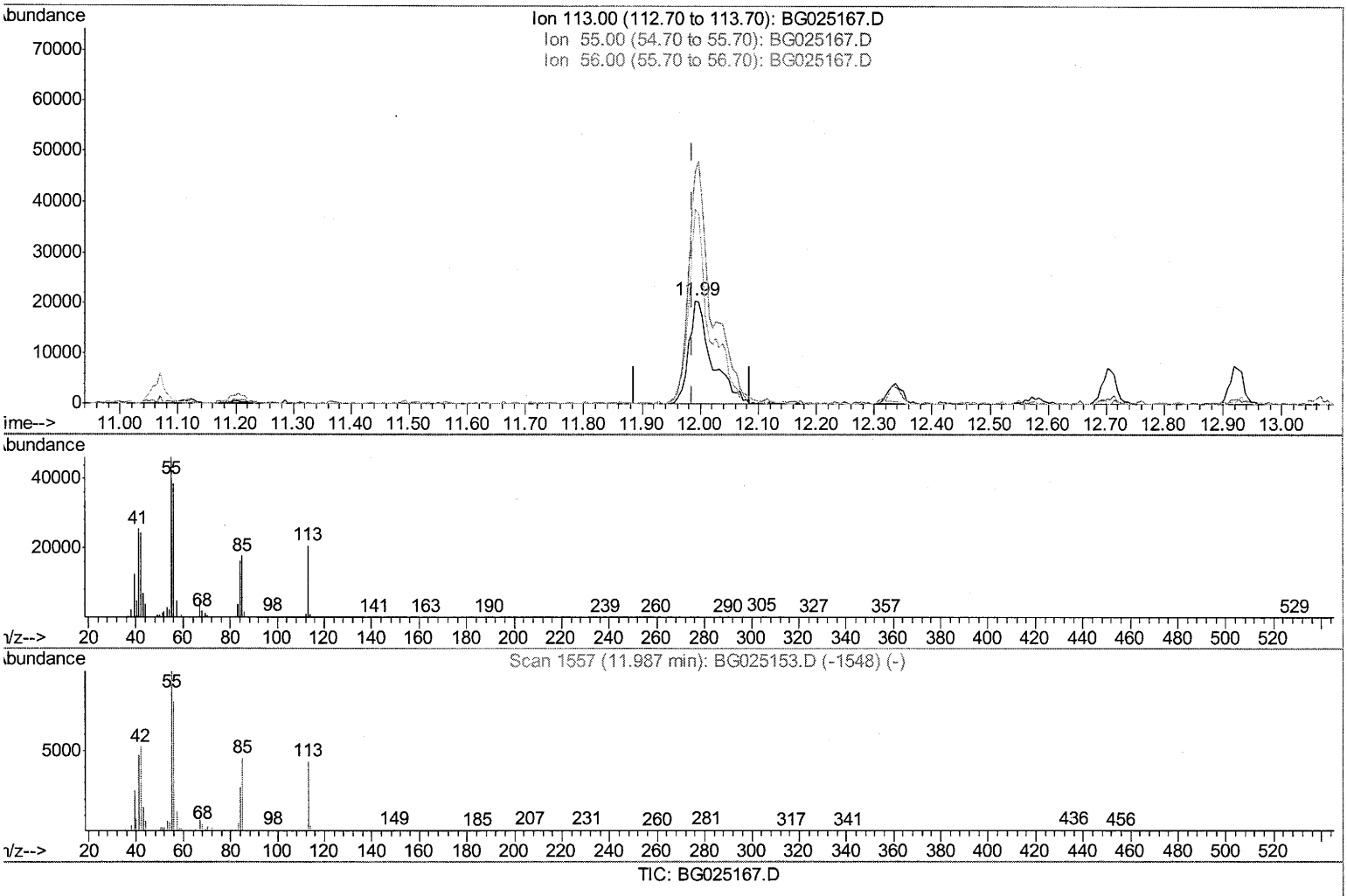
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 05:59:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM



TIC: BG025167.D

(32) Caprolactam

11.991min (+0.004) 17.52ng/ul m

response 57211

UM 12/14/16

Ion	Exp%	Act%
113.00	100	100
55.00	210.70	223.31
56.00	160.60	187.28
0.00	0.00	0.00

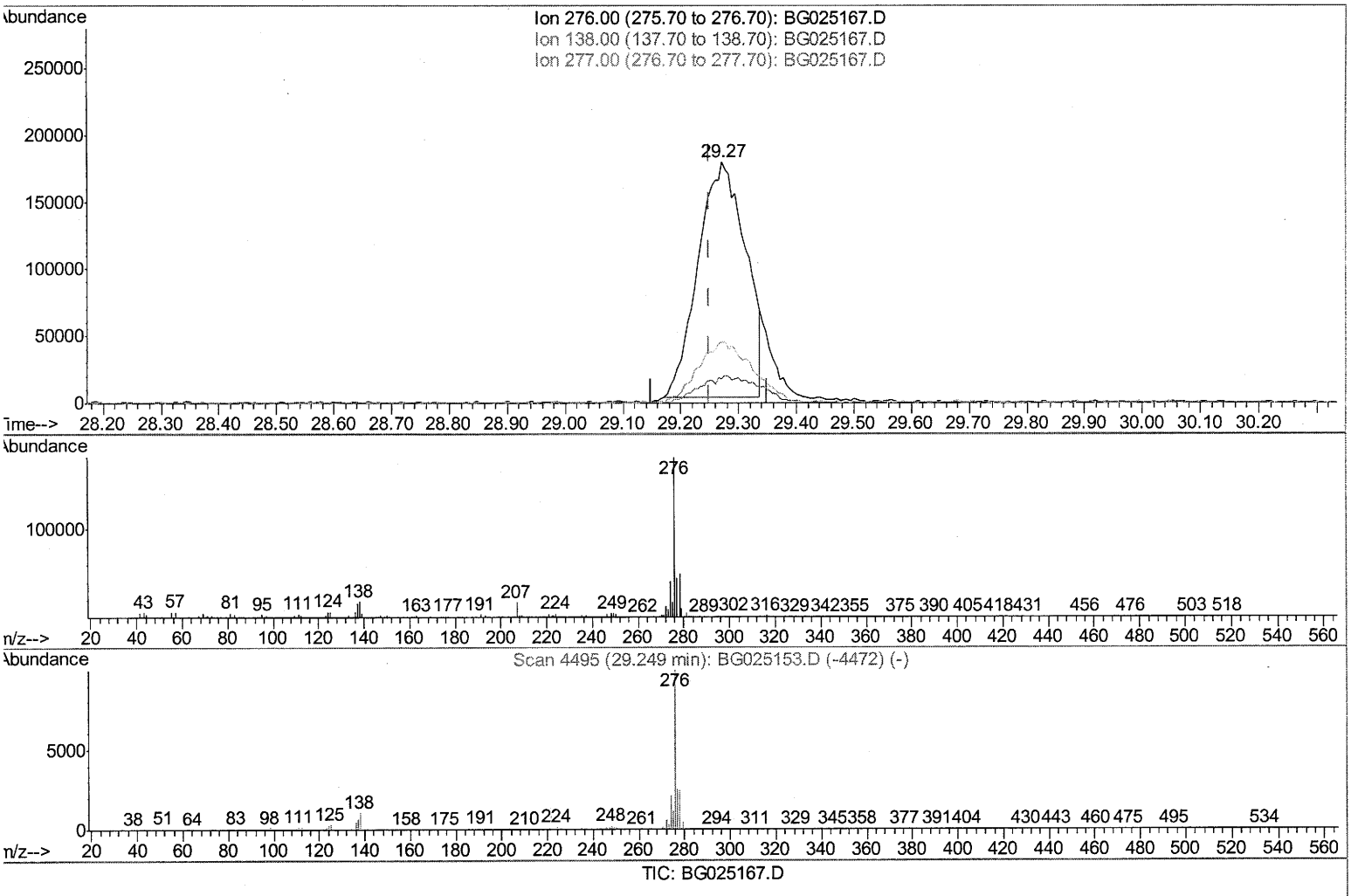
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 05:59:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM



TIC: BG025167.D

(89) Indeno(1,2,3-cd)pyrene

29.271min (+0.022) 18.11ng/ul

response 993384

Ion	Exp%	Act%
276.00	100	100
138.00	10.30	10.16
277.00	23.30	24.98
0.00	0.00	0.00

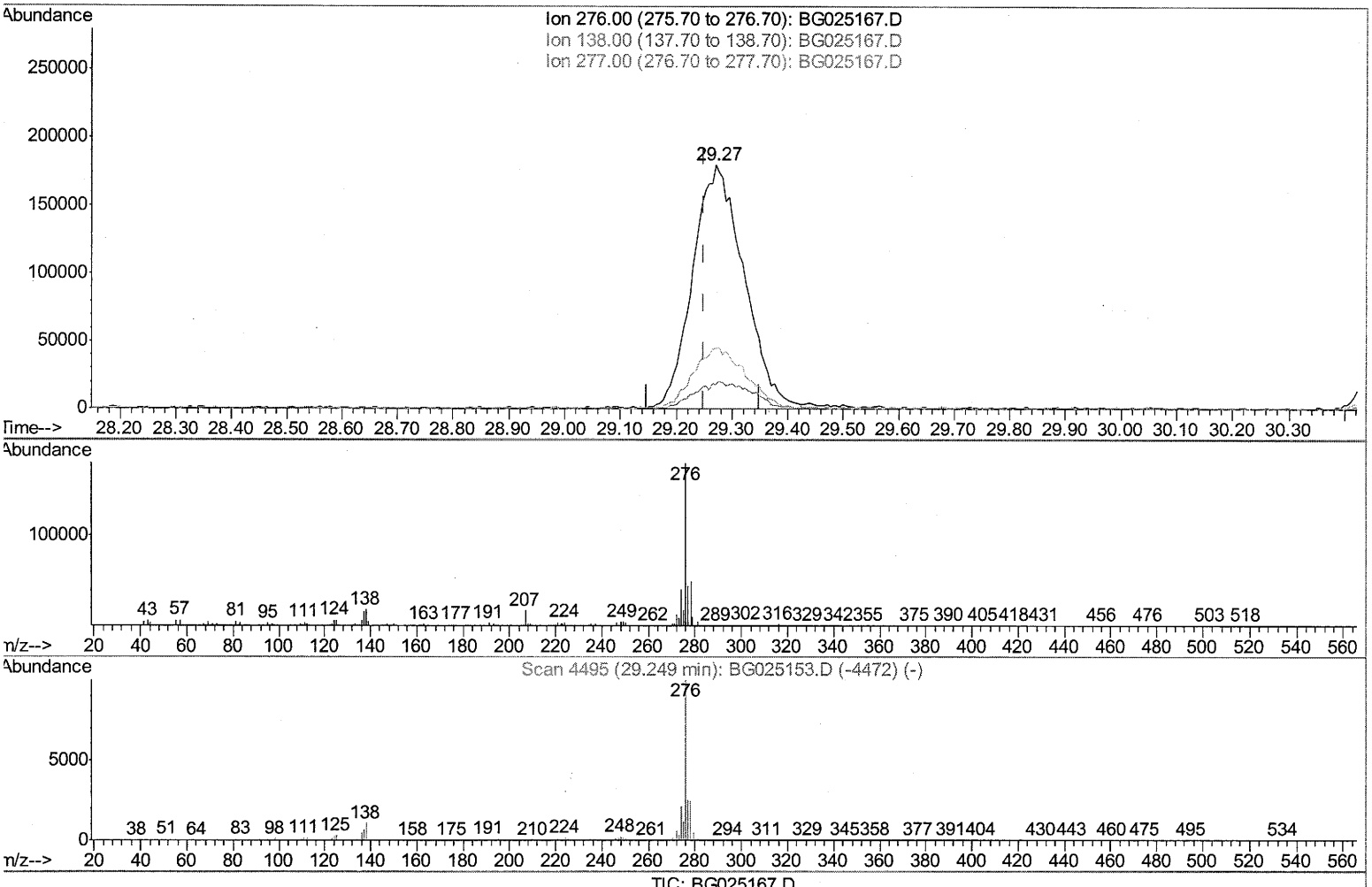
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 05:59:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM



TIC: BG025167.D

(89) Indeno(1,2,3-cd)pyrene

29.271min (+0.022) 20.96ng/ul m

response 1149579

Ion	Exp%	Act%
276.00	100	100
138.00	10.30	10.16
277.00	23.30	24.98
0.00	0.00	0.00

UM
12/14/16

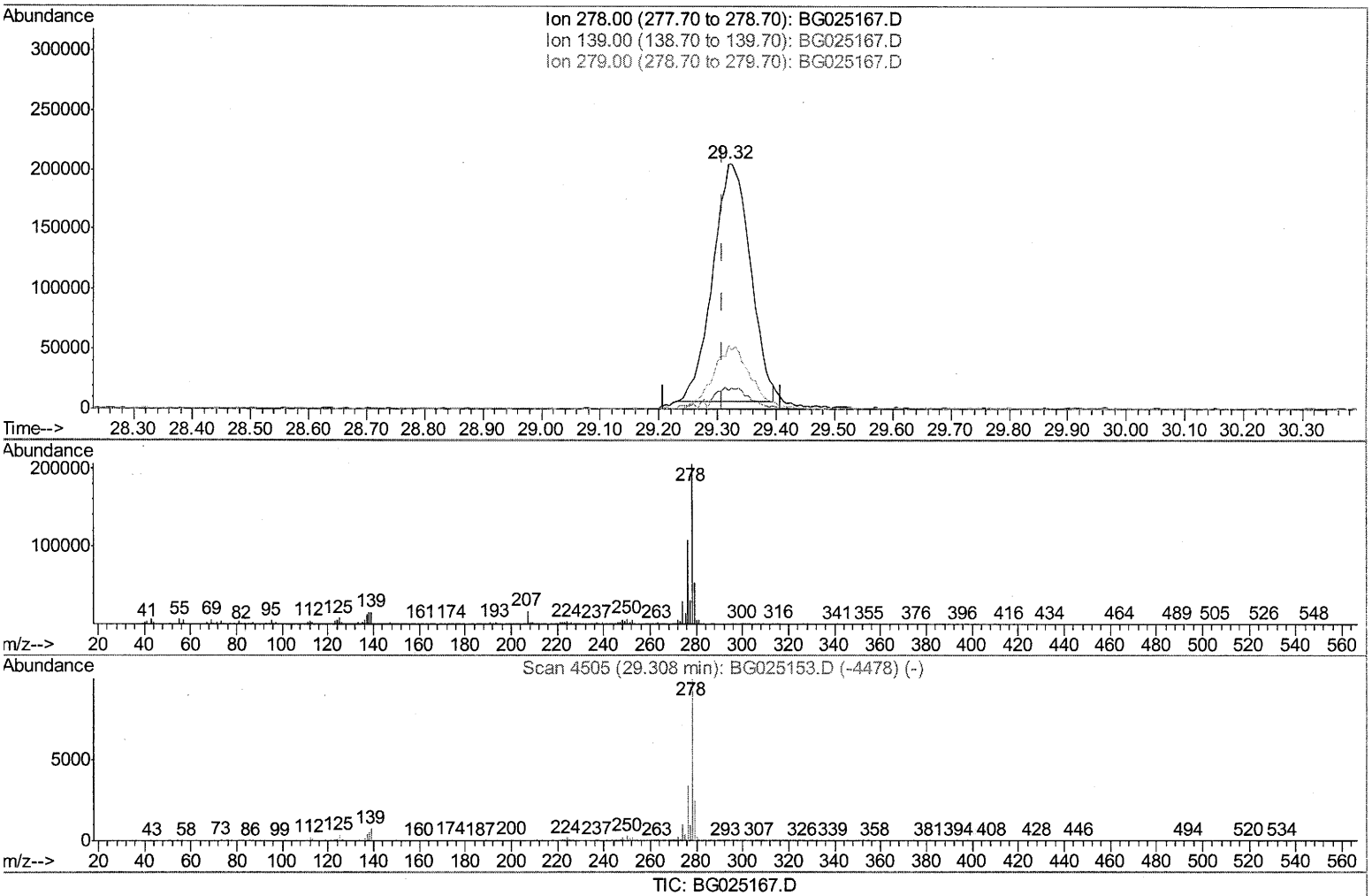
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 05:59:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM



TIC: BG025167.D

(90) Dibenzo(a,h)anthracene

29.318min (+0.010) 19.14ng/ul

response 884308

Ion	Exp%	Act%
278.00	100	100
139.00	8.40	7.87
279.00	26.10	26.01
0.00	0.00	0.00

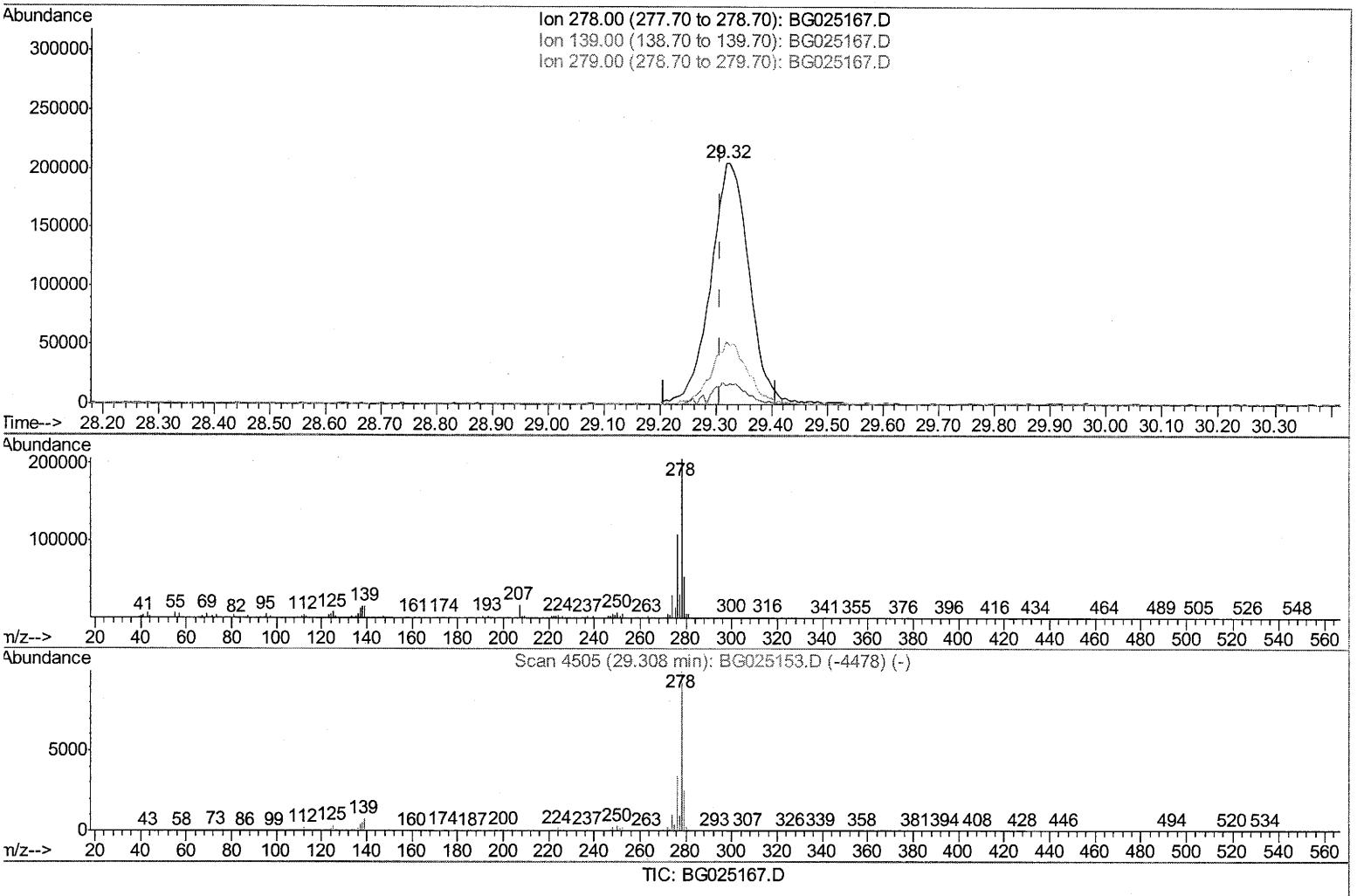
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 05:59:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM



TIC: BG025167.D

(90) Dibenzo(a,h)anthracene

29.318min (+0.010) 20.95ng/ul m UM 12/14/16

response 968153

Ion	Exp%	Act%
278.00	100	100
139.00	8.40	7.87
279.00	26.10	26.01
0.00	0.00	0.00

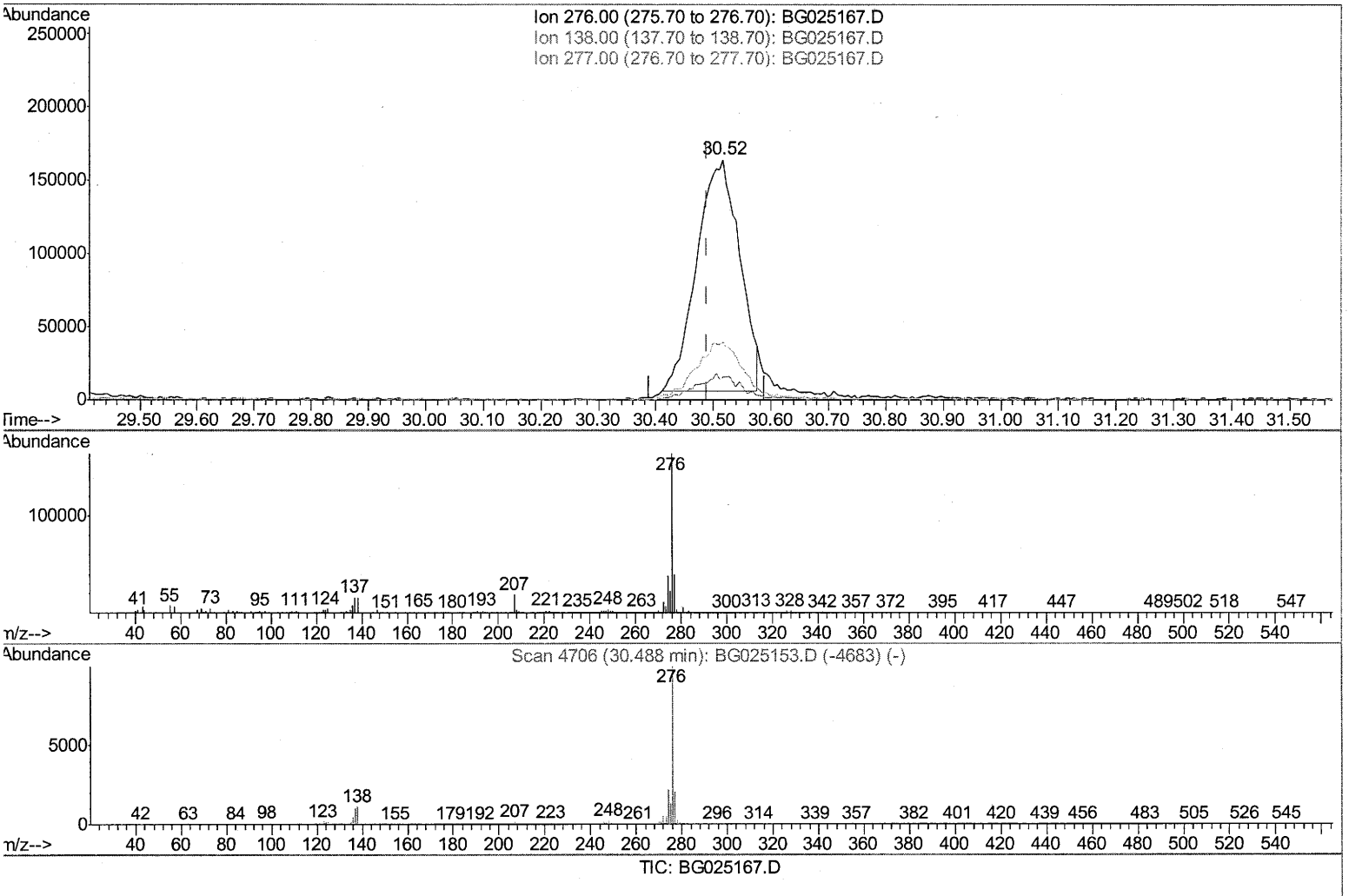
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 05:59:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM



TIC: BG025167.D

(91) Benzo(g,h,i)perylene

30.516min (+0.028) 17.84ng/ul

response 816392

Ion	Exp%	Act%
276.00	100	100
138.00	10.70	9.61
277.00	22.00	23.90
0.00	0.00	0.00

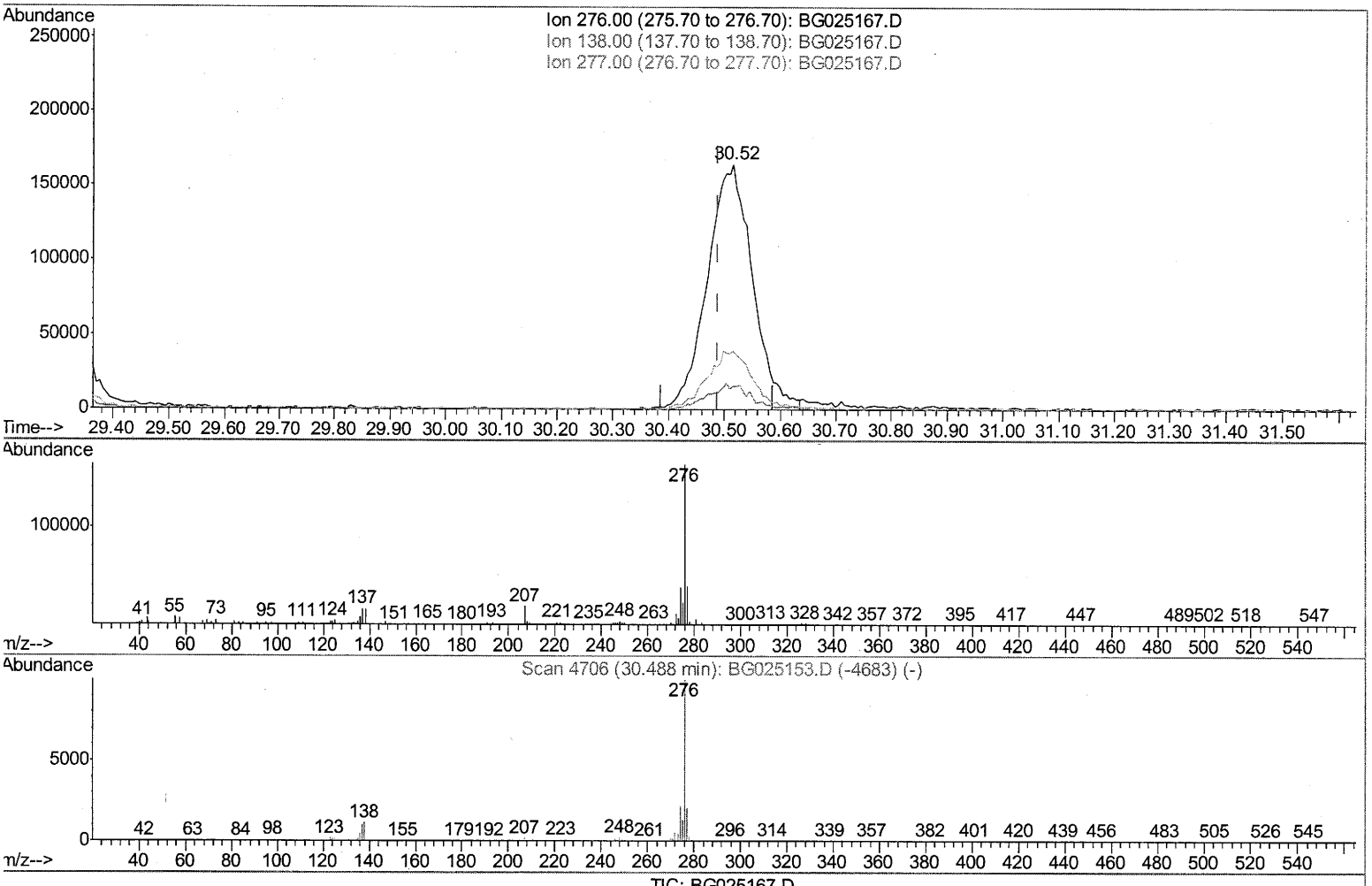
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 05:59:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM



TIC: BG025167.D

(91) Benzo(g,h,i)perylene

30.516min (+0.028) 20.23ng/ul m

response 925831

UM 12/14/16

Ion	Exp%	Act%
276.00	100	100
138.00	10.70	9.61
277.00	22.00	23.90
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 06:01:48 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.24	152	106827	20.00	ng/ul	0.00
18) Naphthalene-d8	11.07	136	477087	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.86	164	384981	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.61	188	792820	20.00	ng/ul	0.00
75) Chrysene-d12	21.90	240	886029	20.00	ng/ul	0.00
83) Perylene-d12	25.33	264	925592	20.00	ng/ul	0.01
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.58	96	15594	7.54	ng/uL	0.00
5) Phenol-d5	7.39	99	183561	19.92	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.56	67	115485	20.26	ng/ul	0.00
9) 2-Chlorophenol-d4	7.77	132	128892	20.00	ng/ul	0.00
13) 4-Methylphenol-d8	8.95	113	156540	20.33	ng/ul	0.01
19) Nitrobenzene-d5	9.42	128	67199	19.89	ng/ul	0.01
22) 2-Nitrophenol-d4	10.14	143	83422	19.81	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.69	165	166941	20.61	ng/ul	0.00
29) 4-Chloroaniline-d4	11.20	131	186164	23.39	ng/ul	0.00
43) Dimethylphthalate-d6	14.25	166	507409	19.16	ng/ul	0.00
46) Acenaphthylene-d8	14.56	160	602638	20.78	ng/ul	0.00
51) 4-Nitrophenol-d4	15.07	143	79173	17.40	ng/ul	0.00
57) Fluorene-d10	15.85	176	480336	19.27	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.98	200	93280	19.03	ng/ul	0.01
70) Anthracene-d10	17.71	188	677195	20.24	ng/ul	0.00
76) Pyrene-d10	19.98	212	756769	20.74	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.09	264	766813	20.45	ng/ul	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.62	88	17575	6.52	ng/uL#	83
4) Benzaldehyde	7.37	77	147380	21.24	ng/ul	98
6) Phenol	7.42	94	190879	20.18	ng/ul	92
8) Bis(2-Chloroethyl)ether	7.65	93	134056	19.37	ng/ul	99
10) 2-Chlorophenol	7.80	128	128374	19.81	ng/ul	95
11) 2-Methylphenol	8.68	108	143514	20.61	ng/ul	96
12) 2,2'-oxybis(1-Chloropropan	8.77	45	261611	22.22	ng/ul	96
14) Acetophenone	9.07	105	235665	20.11	ng/ul	92
15) N-Nitroso-di-n-propylamine	9.04	70	138396	20.44	ng/ul#	97
16) 4-Methylphenol	9.01	108	155862	20.12	ng/ul	97
17) Hexachloroethane	9.32	117	63237	22.03	ng/ul	96
20) Nitrobenzene	9.46	77	216874	20.89	ng/ul	93
21) Isophorone	9.98	82	388173	19.76	ng/ul	100
23) 2-Nitrophenol	10.18	139	82628	19.34	ng/ul#	82
24) 2,4-Dimethylphenol	10.22	107	187940	19.24	ng/ul	97
25) Bis(2-Chloroethoxy)methane	10.45	93	202289	20.20	ng/ul	96
27) 2,4-Dichlorophenol	10.72	162	156801	19.94	ng/ul	98
28) Naphthalene	11.12	128	436012	19.66	ng/ul	98
30) 4-Chloroaniline	11.23	127	184178	22.63	ng/ul	96
31) Hexachlorobutadiene	11.38	225	129631	19.17	ng/ul#	90
32) Caprolactam	11.99	113	57211m	17.52	ng/ul	
33) 4-Chloro-3-methylphenol	12.33	107	197566	20.38	ng/ul	95
34) 2-Methylnaphthalene	12.71	142	355668	20.32	ng/ul	96

GM 12/14/16

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121316\
Data File : BG025167.D
Acq On : 14 Dec 2016 5:20
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 06:01:48 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 14 03:19:35 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02004

Manual Integrations APPROVED
sohil
12/14/2016 6:17:18 PM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,2,4,5-Tetrachlorobenzene	13.07	216	242605	20.91 ng/ul#	90
37) Hexachlorocyclopentadiene	13.03	237	112688	16.54 ng/ul	95
38) 2,4,6-Trichlorophenol	13.31	196	157123	21.56 ng/ul	90
39) 2,4,5-Trichlorophenol	13.39	196	161550	20.22 ng/ul	97
40) 1,1'-Biphenyl	13.69	154	488718	20.94 ng/ul	98
41) 2-Chloronaphthalene	13.75	162	377428	20.31 ng/ul	95
42) 2-Nitroaniline	13.95	65	167893	23.08 ng/ul	90
44) Dimethylphthalate	14.30	163	497298	19.11 ng/ul	100
45) 2,6-Dinitrotoluene	14.44	165	110138	19.70 ng/ul#	93
47) Acenaphthylene	14.59	152	577988	20.50 ng/ul	99
48) 3-Nitroaniline	14.78	138	102873	21.24 ng/ul#	79
49) Acenaphthene	14.93	153	404081	20.92 ng/ul	95
50) 2,4-Dinitrophenol	14.99	184	52780	14.53 ng/ul#	88
52) 4-Nitrophenol	15.08	109	96783	17.68 ng/ul	90
53) Dibenzofuran	15.26	168	604199	19.77 ng/ul	100
54) 2,4-Dinitrotoluene	15.23	165	155997	18.51 ng/ul#	97
55) 2,3,4,6-Tetrachlorophenol	15.48	232	159252	18.87 ng/ul	95
56) Diethylphthalate	15.65	149	517247	18.77 ng/ul	99
58) Fluorene	15.90	166	478210	19.22 ng/ul	98
59) 4-Chlorophenyl-phenylether	15.89	204	269896	19.27 ng/ul#	82
60) 4-Nitroaniline	15.94	138	104798	17.94 ng/ul	97
63) 4,6-Dinitro-2-methylphenol	15.99	198	93746	18.46 ng/ul#	97
64) N-Nitrosodiphenylamine	16.10	169	444189	21.78 ng/ul	94
65) 4-Bromophenyl-phenylether	16.78	248	188233	21.02 ng/ul	88
66) Hexachlorobenzene	16.90	284	213735	21.20 ng/ul	99
67) Atrazine	17.04	200	194127	20.02 ng/ul	98
68) Pentachlorophenol	17.26	266	111772	18.46 ng/ul	94
69) Phenanthrene	17.65	178	773245	20.43 ng/ul	99
71) Anthracene	17.74	178	796648	20.48 ng/ul	98
72) Carbazole	18.01	167	665228	20.50 ng/ul	98
73) Di-n-butylphthalate	18.52	149	826478	20.17 ng/ul	99
74) Fluoranthene	19.65	202	876177	19.49 ng/ul	99
77) Pyrene	20.01	202	894906	21.01 ng/ul	99
78) Butylbenzylphthalate	20.86	149	372075	22.31 ng/ul	95
79) 3,3'-Dichlorobenzidine	21.79	252	350100	22.67 ng/ul#	98
80) Benzo(a)anthracene	21.88	228	957462	20.80 ng/ul	99
81) Bis(2-ethylhexyl)phthalate	21.73	149	503299	21.93 ng/ul	96
82) Chrysene	21.95	228	882767	20.50 ng/ul	98
84) Di-n-octyl phthalate	22.99	149	878137	23.37 ng/ul	100
85) Benzo(b)fluoranthene	24.22	252	934356	20.36 ng/ul	96
86) Benzo(k)fluoranthene	24.30	252	903690	20.71 ng/ul	98
88) Benzo(a)pyrene	25.16	252	911718	20.66 ng/ul	99
89) Indeno(1,2,3-cd)pyrene	29.27	276	1149579m	20.96 ng/ul	
90) Dibenzo(a,h)anthracene	29.32	278	968153m	20.95 ng/ul	
91) Benzo(g,h,i)perylene	30.52	276	925831m	20.23 ng/ul	

UM 12/14/16

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