

### conditional two part MELS for binary PA by personality

#### The MCMC Procedure

Number of Observations Read	1330
Number of Observations Used	1330

Missing Data Information Table					
Variable	Number of Missing Obs	Observation Indices	Sampling Method	Threads	
neuro	6	250 251 252 253 254 255	N-Metropolis	6	

Parameters					
Block	Parameter	Sampling Method	Threads	Initial Value	Prior Distribution
1	alpha	Conjugate	12	2.0584	normal(0,var=100)
2	a0	N-Metropolis	12	0.4050	normal(0,var=100)
	a1			0.3872	normal(0,var=100)
	a2			0.00258	normal(0,var=100)
	a3			0.0945	normal(0,var=100)
	a6			-0.9483	normal(0,var=100)
	a7a			0.0112	normal(0,var=100)
	a7b			-0.6152	normal(0,var=100)
	a7c			0.5691	normal(0,var=100)
	a7d			-1.4874	normal(0,var=100)
	a7e			-0.4449	normal(0,var=100)
	a8A			-0.0372	normal(0,var=100)
	a8B			0.0727	normal(0,var=100)
	a8c			-0.0629	normal(0,var=100)
	alp0			2.2103	normal(0,var=100)
	alp1			0.5070	normal(0,var=100)
	alp2			-0.0418	normal(0,var=100)
	alp3			-0.8074	normal(0,var=100)
	alp6			0.1834	normal(0,var=100)
	alp7a			-0.5843	normal(0,var=100)
	alp7b			-0.0802	normal(0,var=100)
	alp7c			-0.1009	normal(0,var=100)
	alp7d			-0.2577	normal(0,var=100)
	alp7e			-0.0792	normal(0,var=100)
	alp8A			-0.3213	normal(0,var=100)
	alp8B			-0.3992	normal(0,var=100)
	alp8c			-1.4168	normal(0,var=100)
	as2_x			0.3571	normal(0,var=100)

#### Random Effect Parameters

Parameter	Sampling Method	Threads	Subject	Number of Subjects	Subject Values	Prior Distribution
ai	N-Metropolis	12	M2ID	180	10117 10189 10250 10469 10482 10532 10563 10604 10682 10690 10721 10732 10748 10871 10889 10905 10985 11034 11042 11050 ...	normal(0,sd=1)

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Posterior Summaries and Intervals					
Parameter	N	Mean	Standard Deviation	95% HPD Interval	
a0	5000000	0.0135	0.1171	0	0
a1	5000000	-0.00719	0.0530	0	0
a2	5000000	0.000108	0.00606	0	0
a3	5000000	-0.00070	0.0538	0	0
a6	5000000	-0.0199	0.1371	0	0
a7a	5000000	0.00422	0.0660	0	0
a7b	5000000	-0.0144	0.1061	0	0
a7c	5000000	0.0190	0.1359	0	0
a7d	5000000	-0.0402	0.2711	0	0
a7e	5000000	-0.00959	0.0843	0	0
a8A	5000000	0.00942	0.0903	0	0
a8B	5000000	0.00203	0.0694	0	0
a8c	5000000	0.00402	0.0949	0	0
alp0	5000000	0.0588	0.3780	0	0
alp1	5000000	-0.00622	0.0623	0	0
alp2	5000000	-0.00075	0.00753	0	0
alp3	5000000	-0.0142	0.1089	0	0
alp6	5000000	0.00537	0.0581	0	0
alp7a	5000000	-0.0132	0.0999	0	0
alp7b	5000000	0.000230	0.0641	0	0
alp7c	5000000	0.00384	0.0620	0	0
alp7d	5000000	-0.0130	0.1202	0	0
alp7e	5000000	-0.00069	0.0479	0	0
alp8A	5000000	-0.00958	0.0940	0	0
alp8B	5000000	-0.0113	0.0945	0	0
alp8c	5000000	-0.0288	0.1991	0	0
alpha	5000000	0.0491	0.3142	0	0
as2_x	5000000	0.00853	0.0546	0	0

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**conditional two part MELS for binary PA by personality****The MCMC Procedure**

Effective Sample Sizes			
Parameter	ESS	Autocorrelation Time	Efficiency
a0	5201.0	961.4	0.0010
a1	5404.2	925.2	0.0011
a2	16777.6	298.0	0.0034
a3	7740.3	646.0	0.0015
a6	5123.9	975.8	0.0010
a7a	6384.5	783.2	0.0013
a7b	5226.8	956.6	0.0010
a7c	5148.9	971.1	0.0010
a7d	5099.6	980.5	0.0010
a7e	5229.3	956.2	0.0010
a8A	5678.0	880.6	0.0011
a8B	5430.9	920.7	0.0011
a8c	5607.0	891.7	0.0011
alp0	5016.9	996.6	0.0010
alp1	6998.3	714.5	0.0014
alp2	9088.2	550.2	0.0018
alp3	5160.8	968.8	0.0010
alp6	5904.0	846.9	0.0012
alp7a	5473.7	913.5	0.0011
alp7b	5483.5	911.8	0.0011
alp7c	5632.1	887.8	0.0011
alp7d	5163.5	968.3	0.0010
alp7e	7119.5	702.3	0.0014
alp8A	5253.8	951.7	0.0011
alp8B	5526.7	904.7	0.0011
alp8c	5181.1	965.0	0.0010
alpha	5005.8	998.8	0.0010
as2_x	5012.6	997.5	0.0010

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### The MCMC Procedure

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<b>Missing Data Information Table</b>					
<b>Variable</b>	<b>Number of Missing Obs</b>	<b>Observation Indices</b>	<b>Sampling Method</b>	<b>Threads</b>	
neuro	6	250 251 252 253 254 255	N-Metropolis	6	

<b>Parameters</b>					
<b>Block</b>	<b>Parameter</b>	<b>Sampling Method</b>	<b>Threads</b>	<b>Initial Value</b>	<b>Prior Distribution</b>
1	alpha	Conjugate	12	2.0584	normal(0,var=100)
2	a0	N-Metropolis	12	0.4050	normal(0,var=100)
	a1			0.3872	normal(0,var=100)
	a2			0.00258	normal(0,var=100)
	a3			0.0945	normal(0,var=100)
	a6			-0.9483	normal(0,var=100)
	a7a			0.0112	normal(0,var=100)
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	a8A			-0.0372	normal(0,var=100)
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	a8c			-0.0629	normal(0,var=100)
	alp0			2.2103	normal(0,var=100)
	alp1			0.5070	normal(0,var=100)
	alp2			-0.0418	normal(0,var=100)
	alp3			-0.8074	normal(0,var=100)
	alp6			0.1834	normal(0,var=100)
	alp7a			-0.5843	normal(0,var=100)
	alp7b			-0.0802	normal(0,var=100)
	alp7c			-0.1009	normal(0,var=100)
	alp7d			-0.2577	normal(0,var=100)
	alp7e			-0.0792	normal(0,var=100)
	alp8A			-0.3213	normal(0,var=100)
	alp8B			-0.3992	normal(0,var=100)
	alp8c			-1.4168	normal(0,var=100)
	as2_x			0.3571	normal(0,var=100)

### Random Effect Parameters

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Posterior Summaries and Intervals					
Parameter	N	Mean	Standard Deviation	95% HPD Interval	
a0	10000	0.9059	0.5482	-0.1815	1.9775
a1	10000	-0.3214	0.1792	-0.6710	0.0283
a2	10000	-0.00197	0.0378	-0.0764	0.0705
a3	10000	0.0204	0.3893	-0.7379	0.7811
a6	10000	-0.7870	0.3466	-1.5076	-0.1343
a7a	10000	-0.0446	0.4564	-0.9183	0.8716
a7b	10000	-0.4995	0.5601	-1.5690	0.6330
a7c	10000	0.6364	0.5013	-0.3292	1.6554
a7d	10000	-1.5026	0.6489	-2.7863	-0.2486
a7e	10000	-0.4162	0.3423	-1.0684	0.2790
a8A	10000	-0.0680	0.6555	-1.3998	1.1829
a8B	10000	-0.3443	0.6300	-1.5408	0.9354
a8c	10000	-0.1666	0.5827	-1.3620	0.9268
alp0	10000	2.3889	0.4648	1.4900	3.2869
alp1	10000	-0.3509	0.3525	-1.0699	0.3123
alp2	10000	-0.0402	0.0397	-0.1189	0.0373
alp3	10000	-0.5940	0.4381	-1.4670	0.2516
alp6	10000	0.2393	0.3331	-0.4033	0.8888
alp7a	10000	-0.7903	0.4613	-1.7224	0.0939
alp7b	10000	0.1293	0.5545	-0.9324	1.2267
alp7c	10000	0.1789	0.5433	-0.9366	1.1951
alp7d	10000	-0.4356	0.6003	-1.5670	0.7663
alp7e	10000	0.0505	0.3527	-0.6186	0.7569
alp8A	10000	-0.2437	0.5946	-1.3720	0.9672
alp8B	10000	-0.3205	0.5707	-1.4506	0.7900
alp8c	10000	-1.1060	0.6250	-2.3450	0.1357
alpha	10000	2.0584	0.0165	2.0258	2.0904
as2_x	10000	0.3571	0.0139	0.3302	0.3843

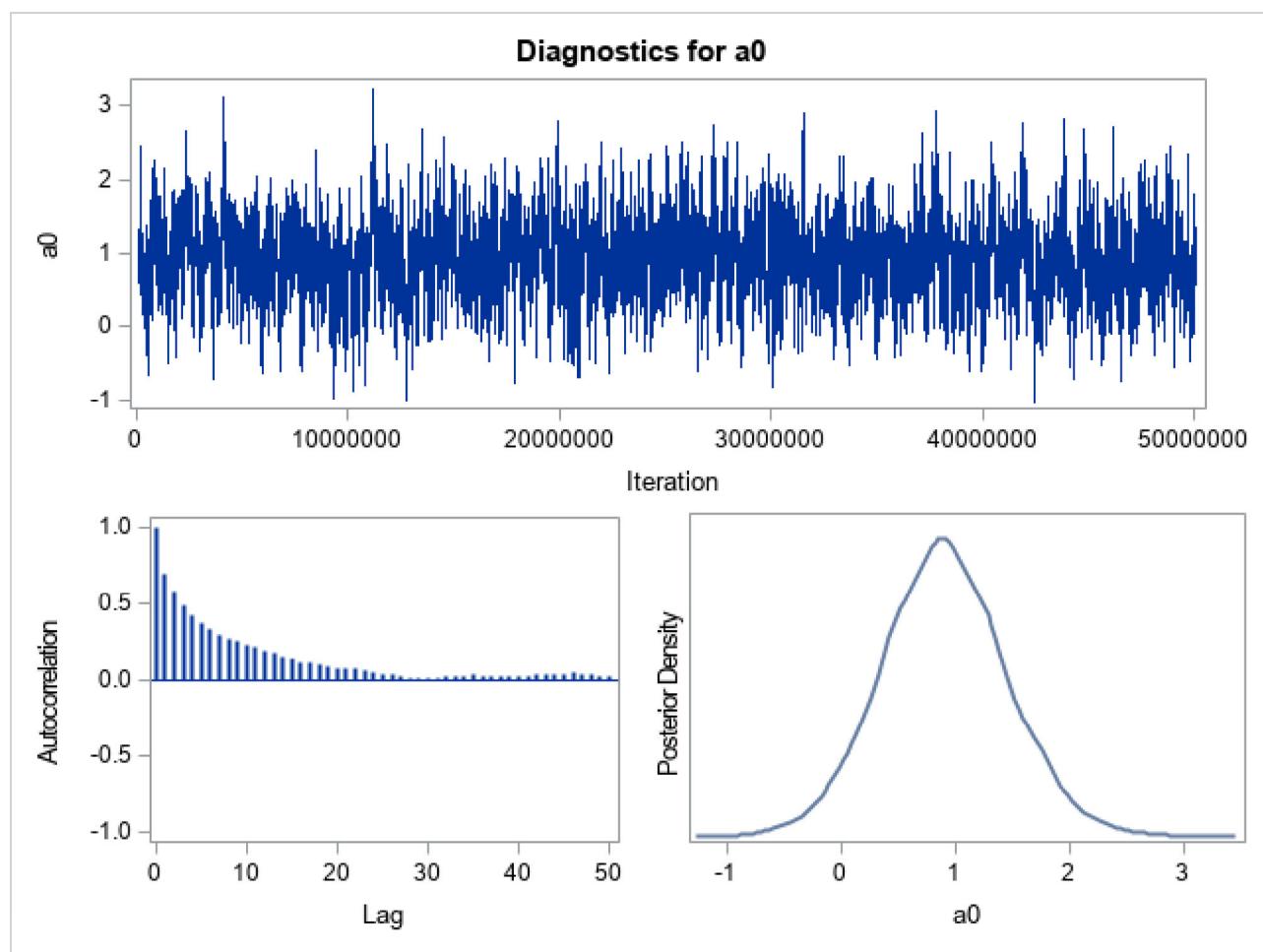
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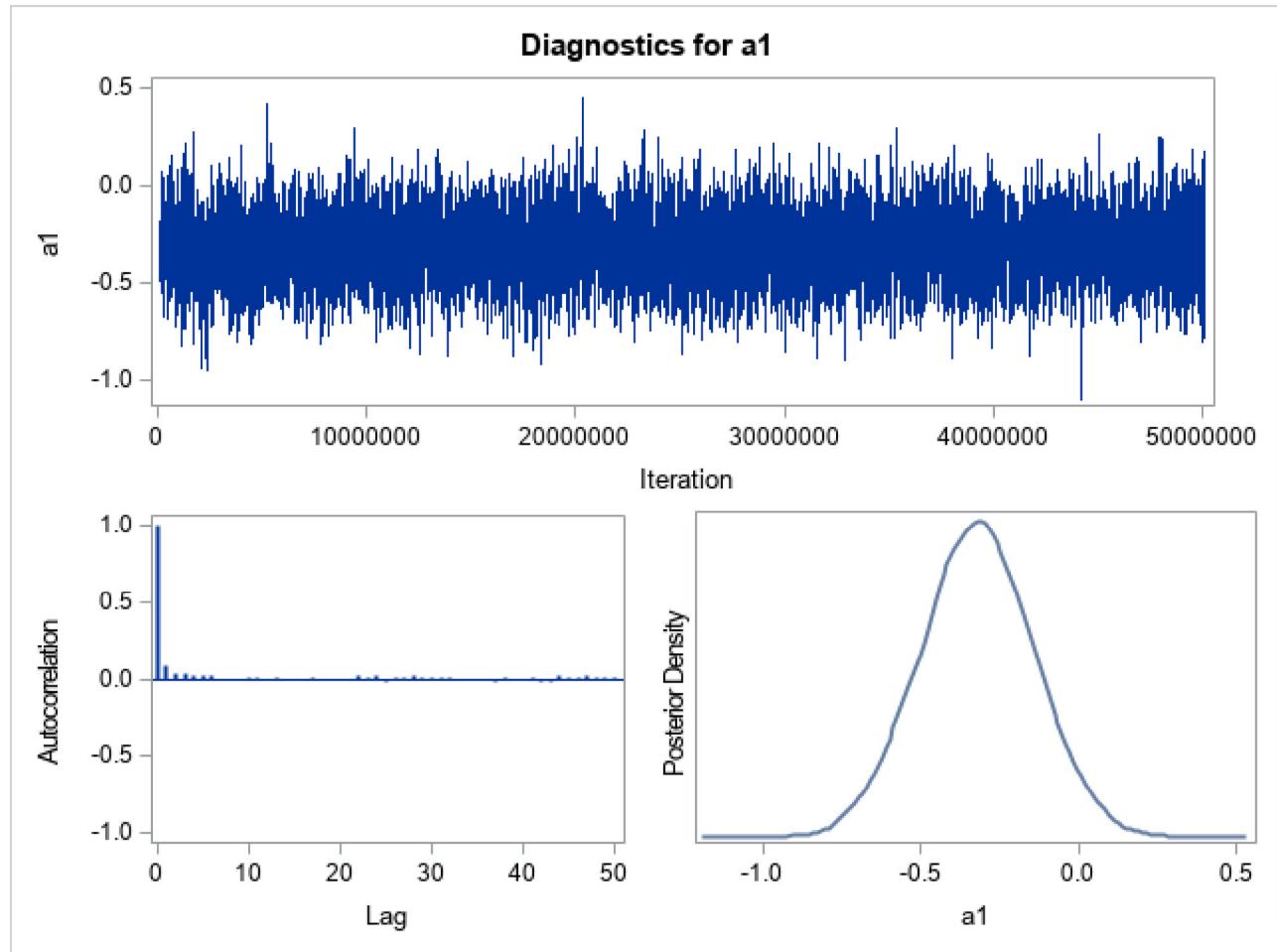
**conditional two part MELS for binary PA by personality****The MCMC Procedure**

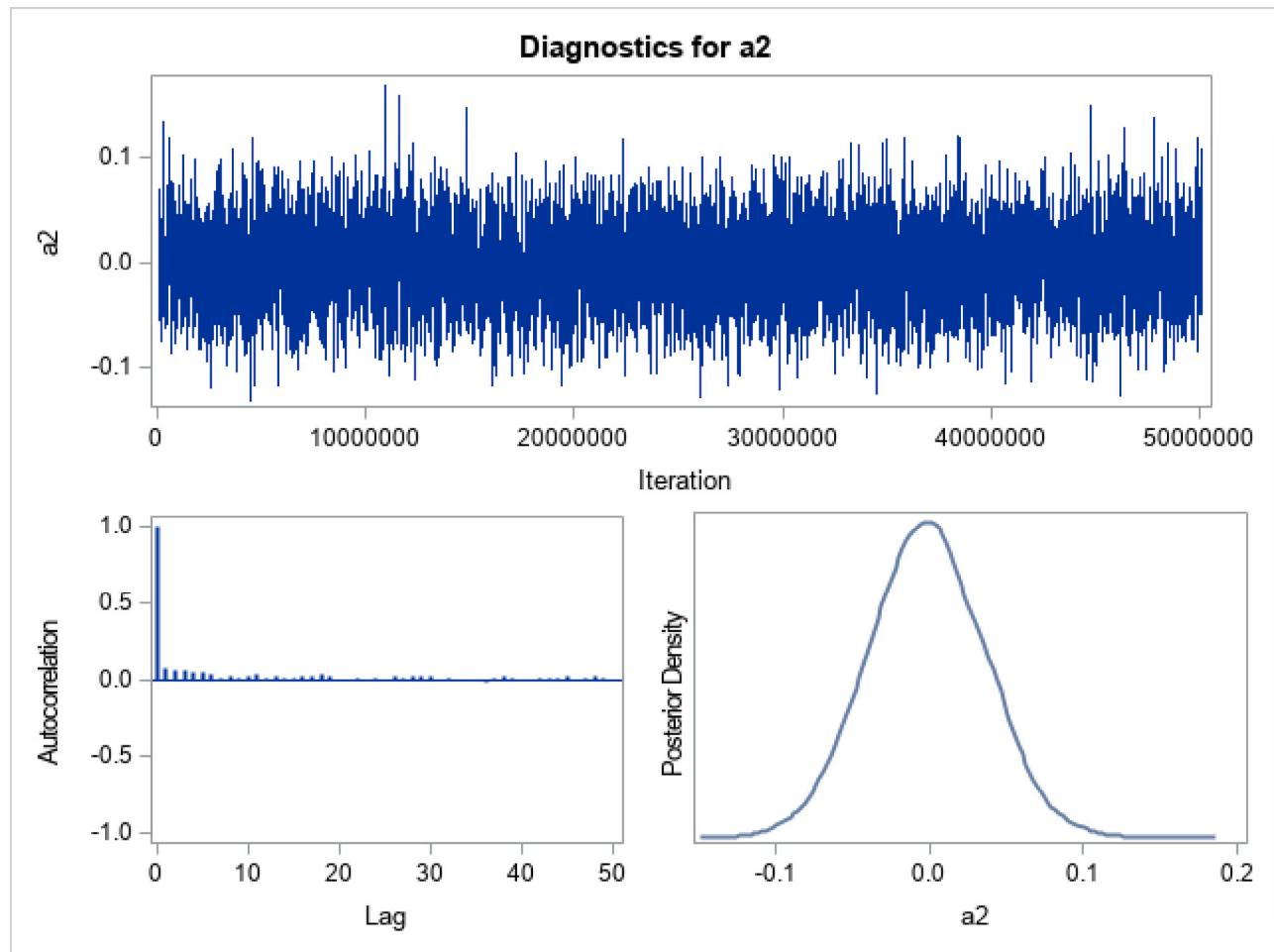
<b>Effective Sample Sizes</b>			
<b>Parameter</b>	<b>ESS</b>	<b>Autocorrelation Time</b>	<b>Efficiency</b>
a0	818.8	12.2130	0.0819
a1	7100.4	1.4084	0.7100
a2	5435.0	1.8399	0.5435
a3	3501.9	2.8556	0.3502
a6	3075.0	3.2521	0.3075
a7a	1836.0	5.4467	0.1836
a7b	1204.0	8.3056	0.1204
a7c	907.0	11.0251	0.0907
a7d	1151.9	8.6810	0.1152
a7e	2632.9	3.7981	0.2633
a8A	825.8	12.1096	0.0826
a8B	631.3	15.8401	0.0631
a8c	768.1	13.0193	0.0768
alp0	786.9	12.7075	0.0787
alp1	3459.2	2.8908	0.3459
alp2	5178.2	1.9312	0.5178
alp3	1780.8	5.6153	0.1781
alp6	3531.2	2.8319	0.3531
alp7a	2149.9	4.6514	0.2150
alp7b	1149.0	8.7032	0.1149
alp7c	983.9	10.1640	0.0984
alp7d	820.1	12.1936	0.0820
alp7e	4835.4	2.0681	0.4835
alp8A	946.9	10.5604	0.0947
alp8B	1184.1	8.4451	0.1184
alp8c	1314.1	7.6099	0.1314
alpha	10000.0	1.0000	1.0000
as2_x	10000.0	1.0000	1.0000

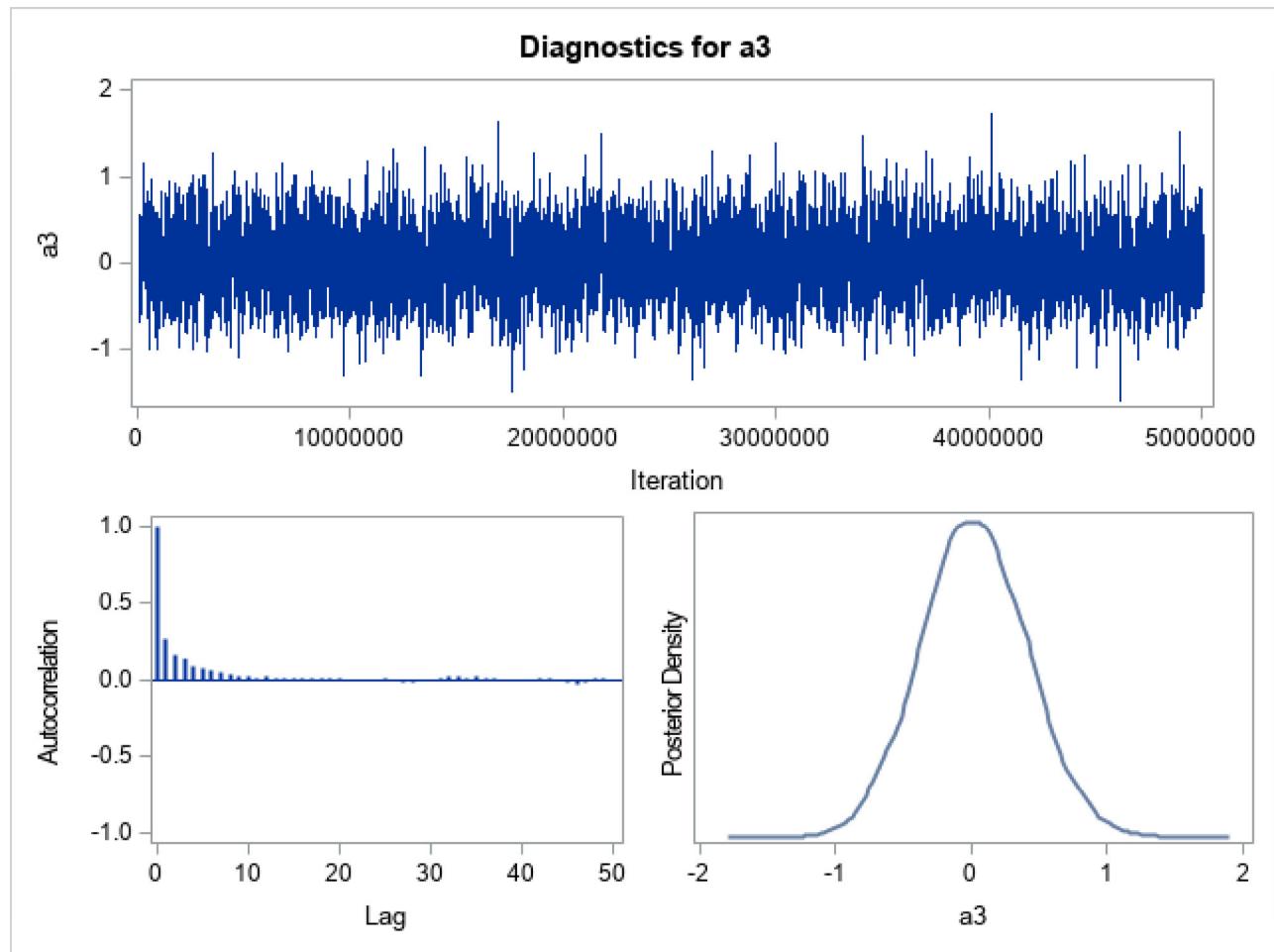
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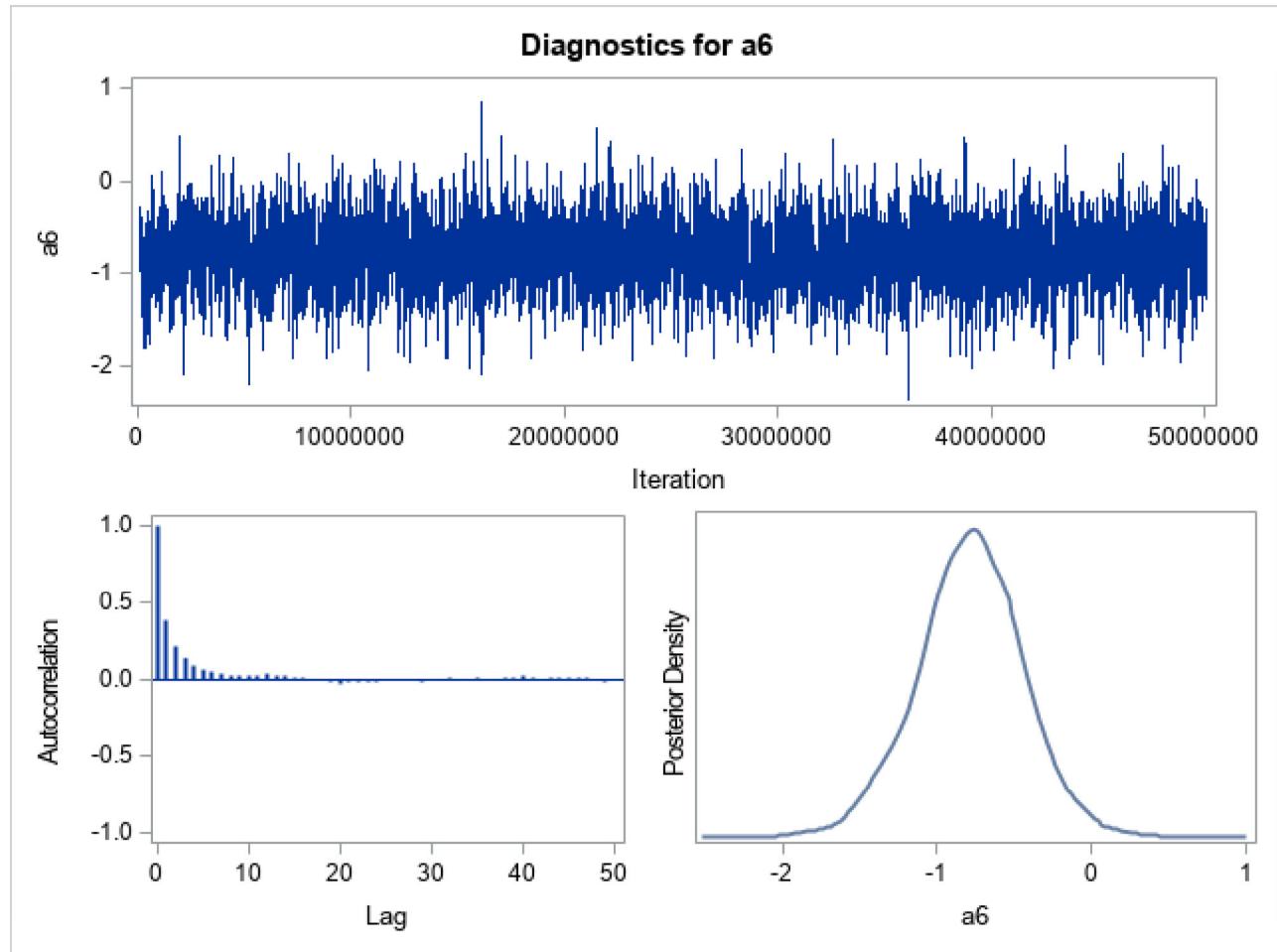
The MCMC Procedure

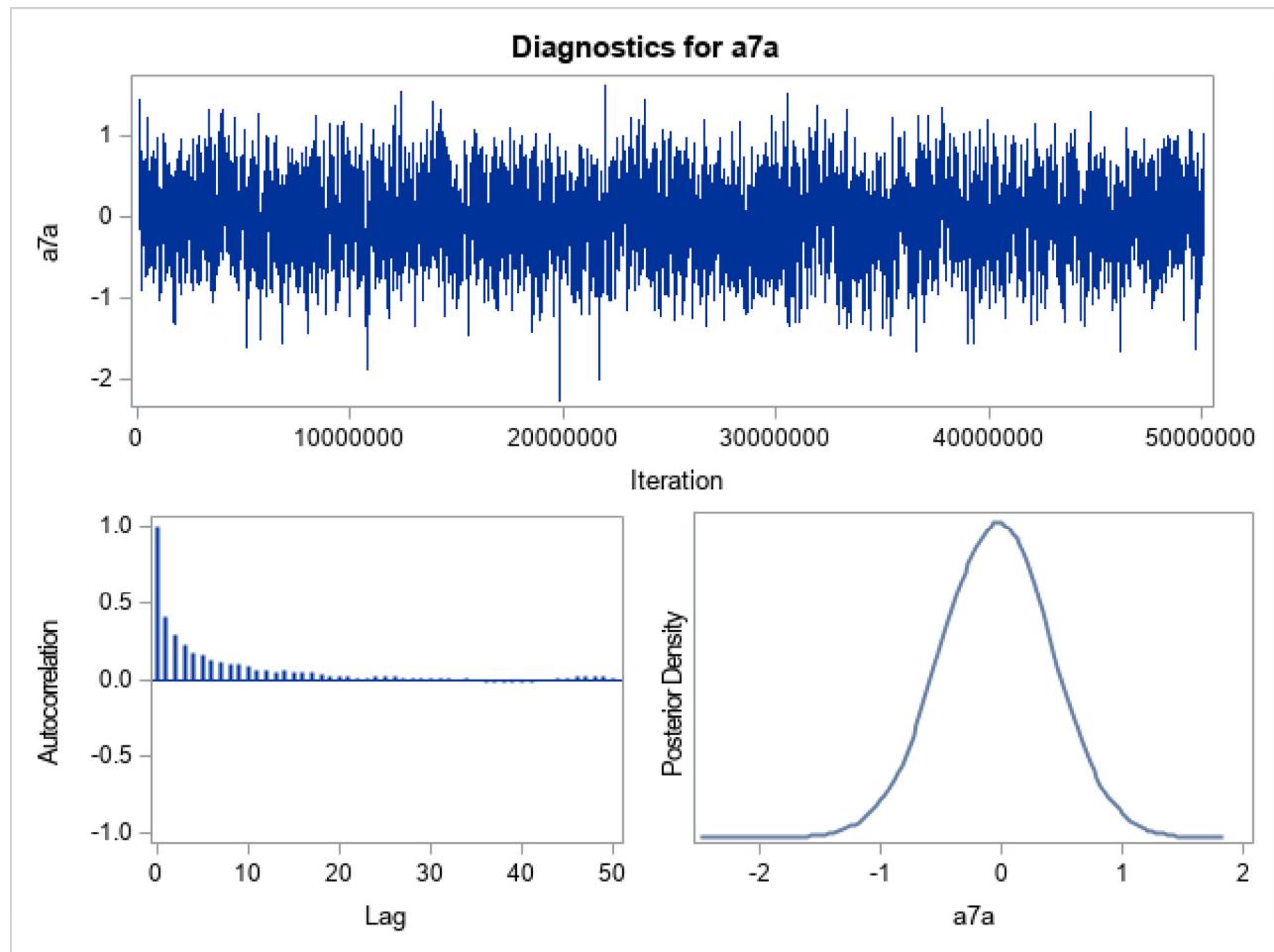


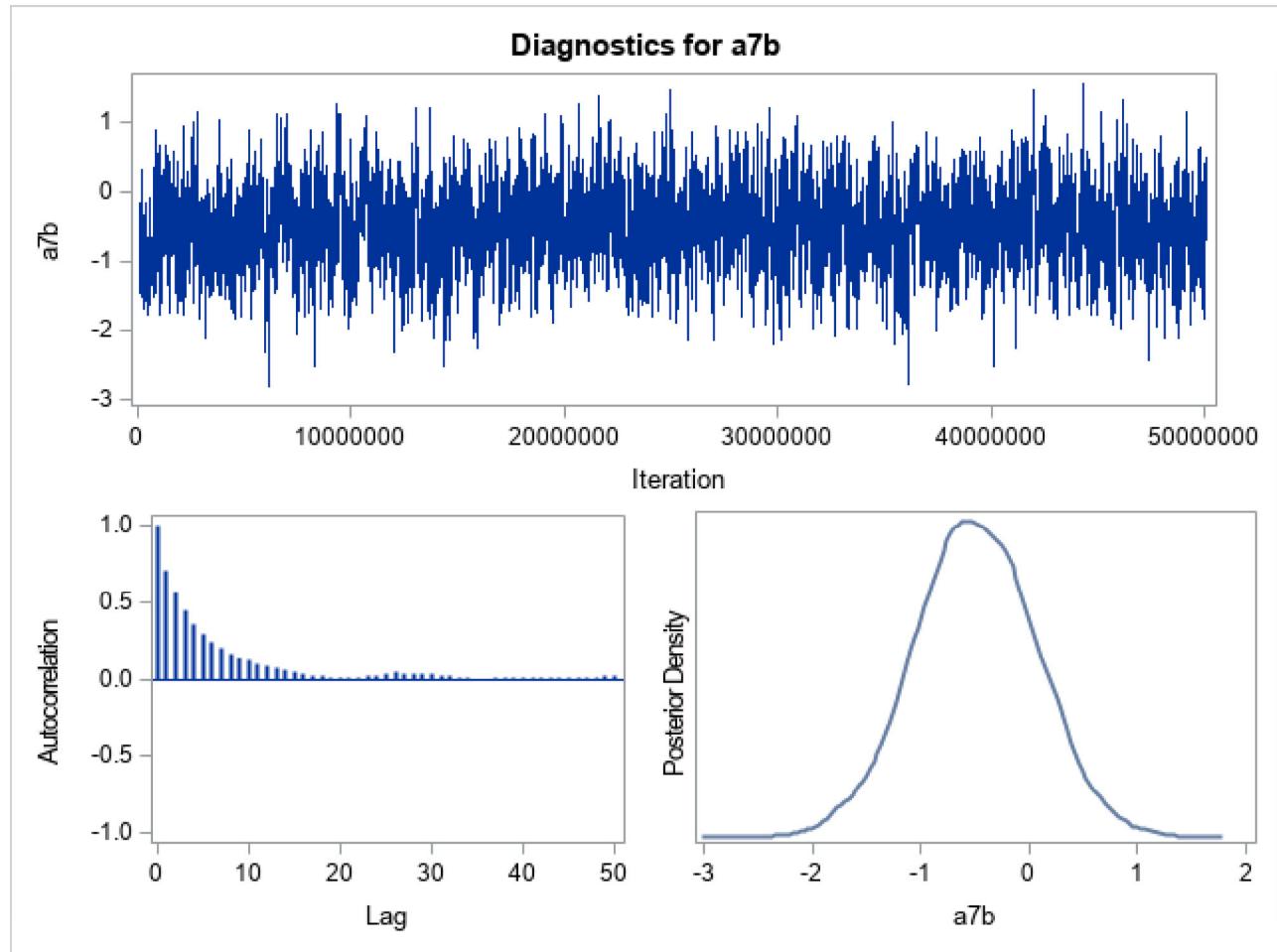


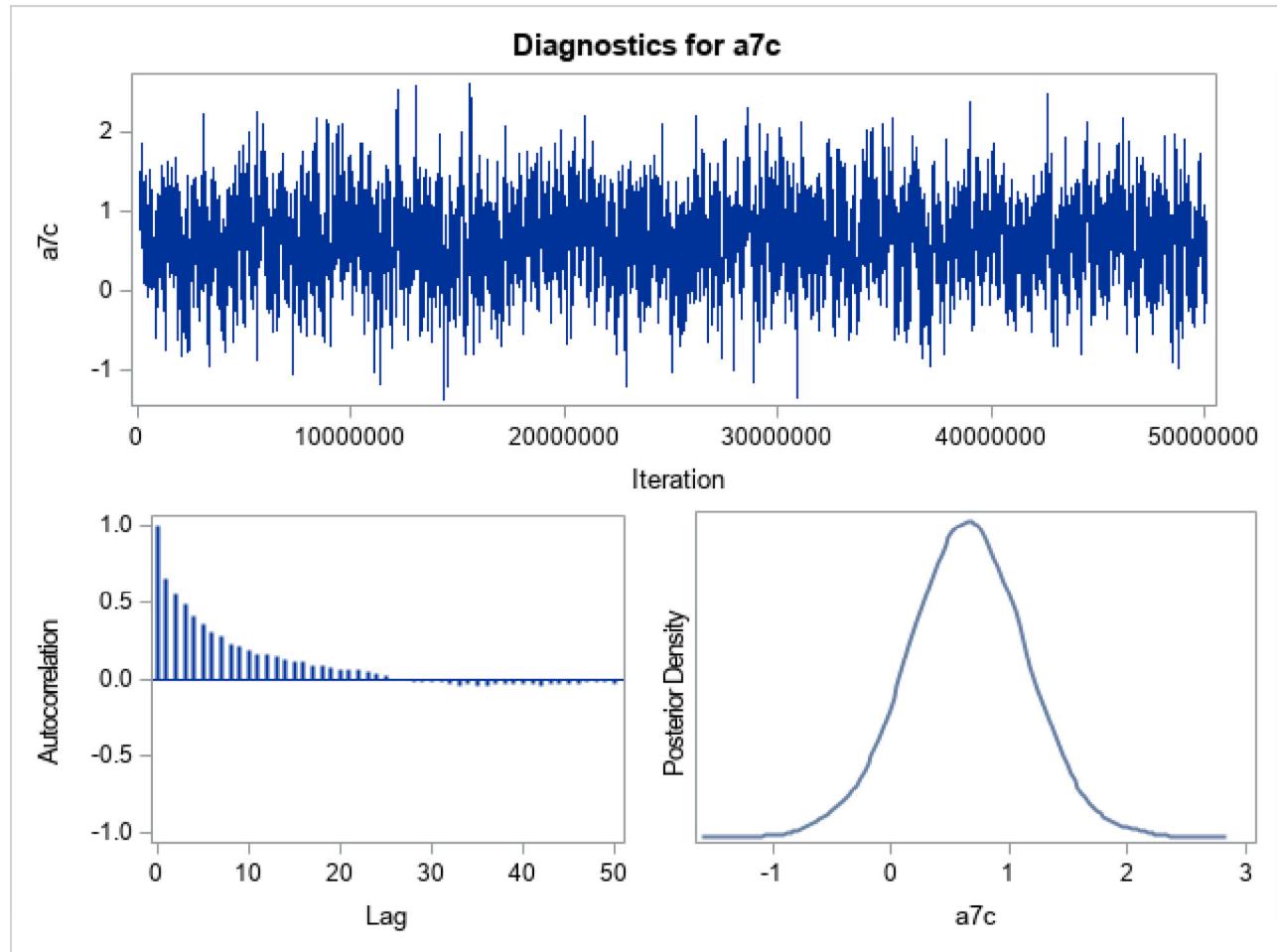


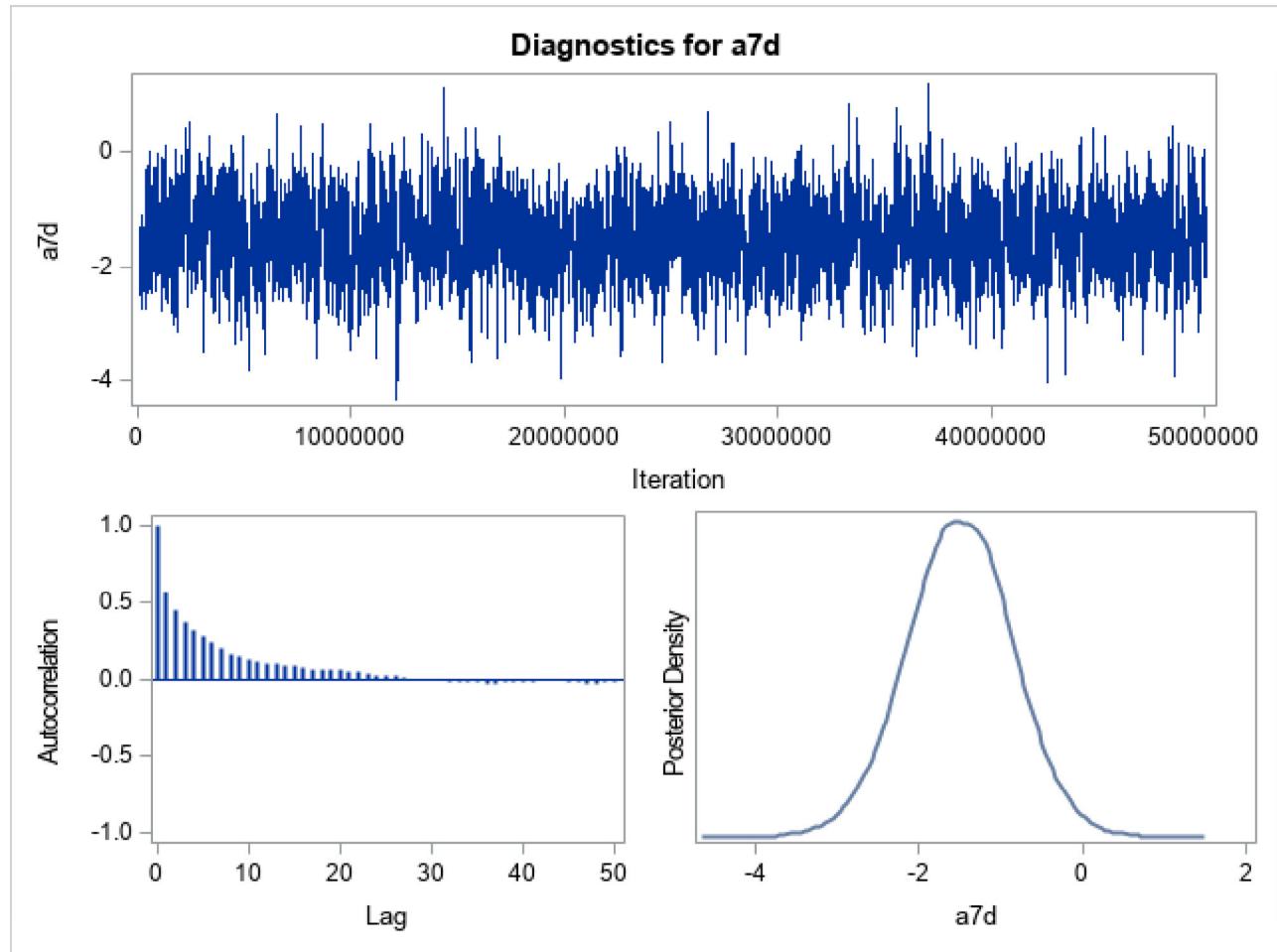


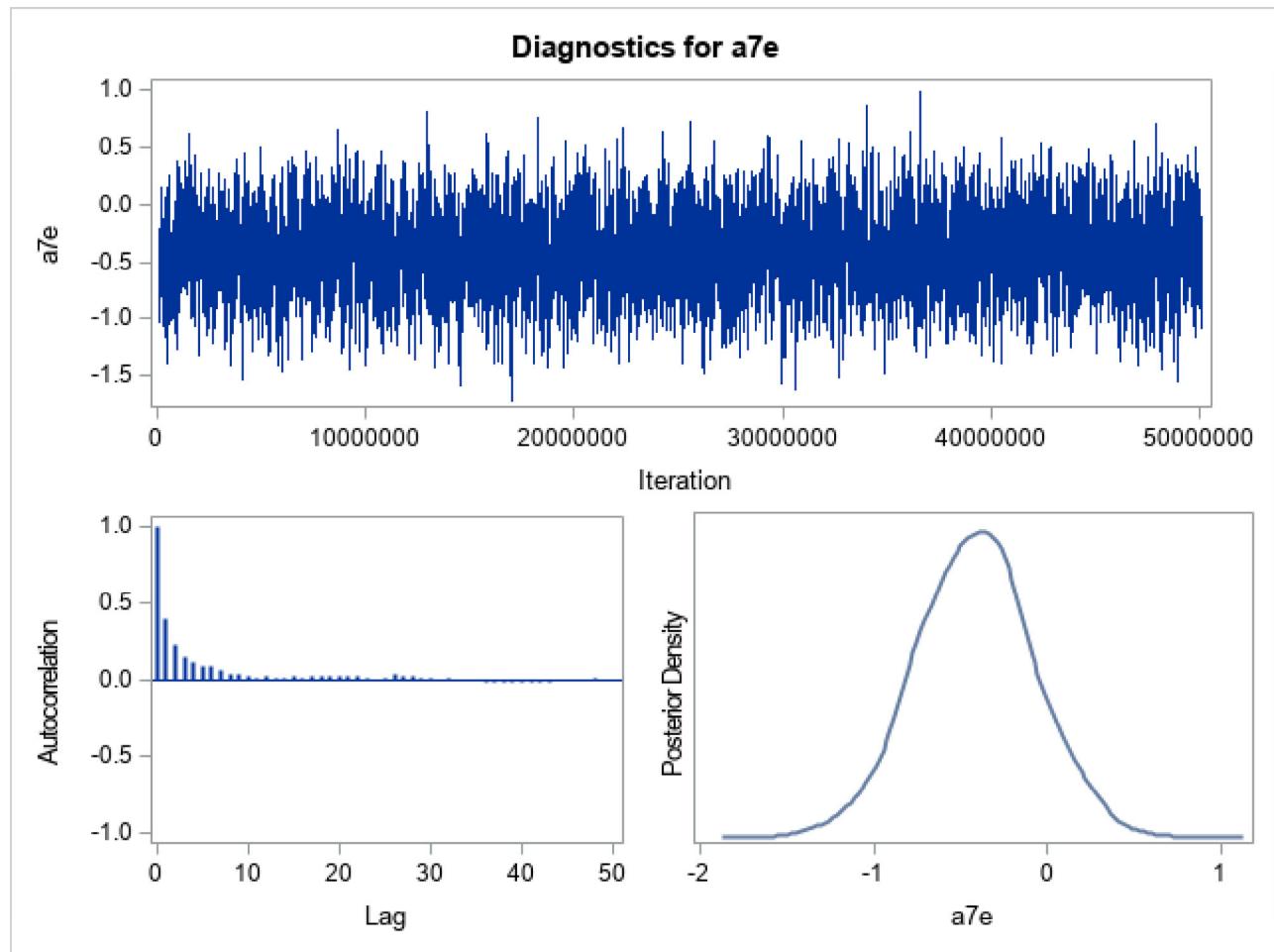


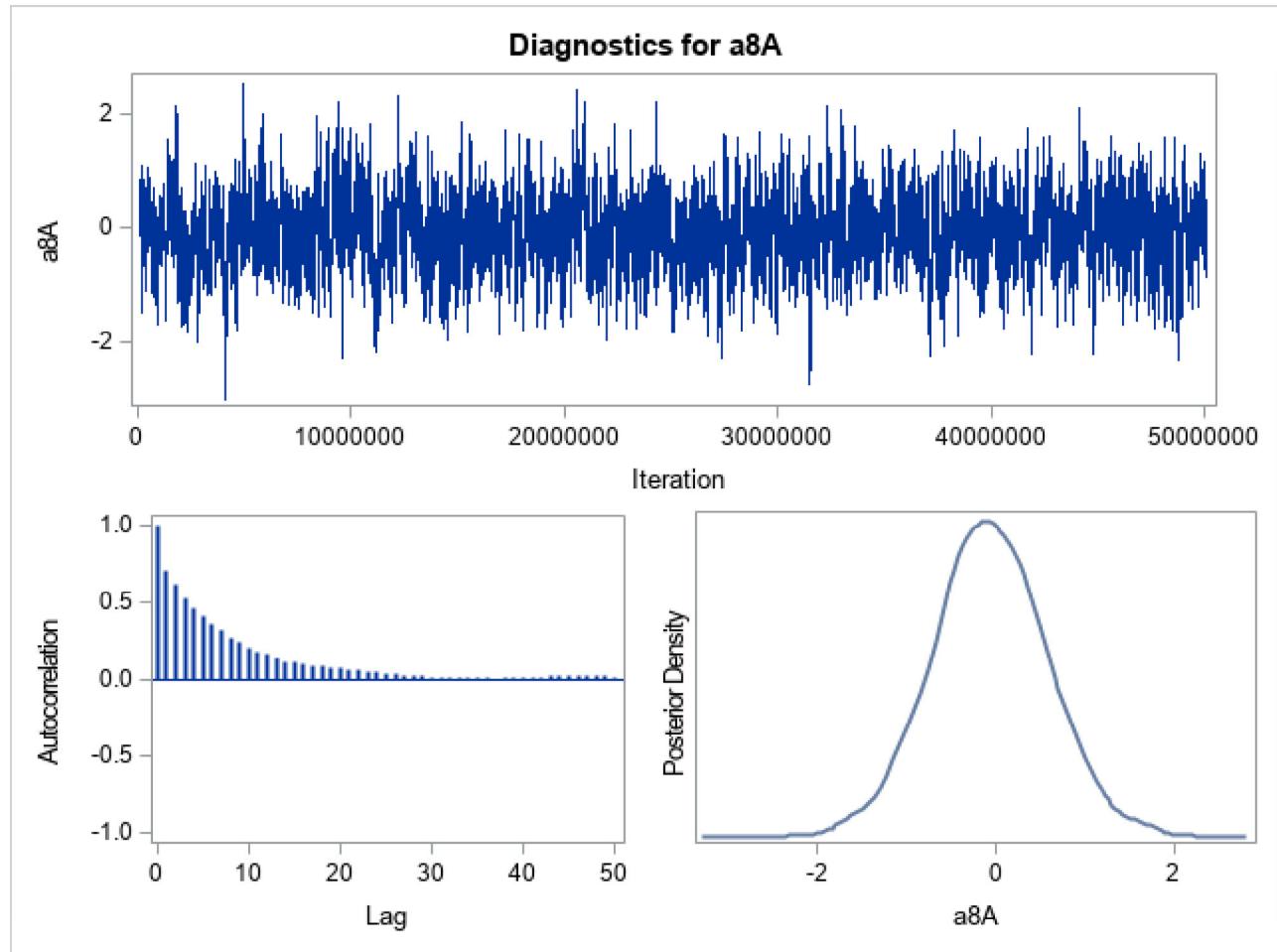


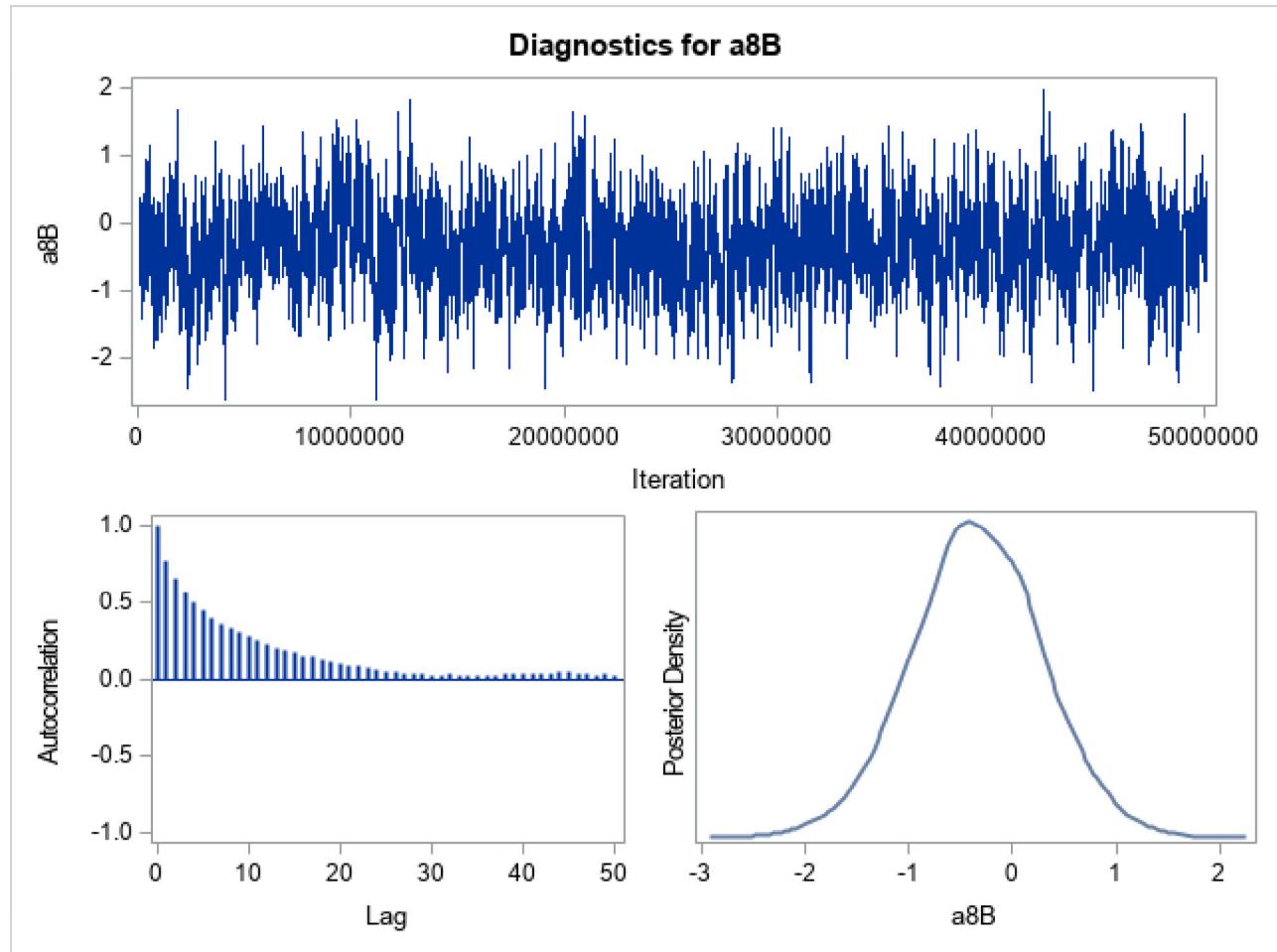


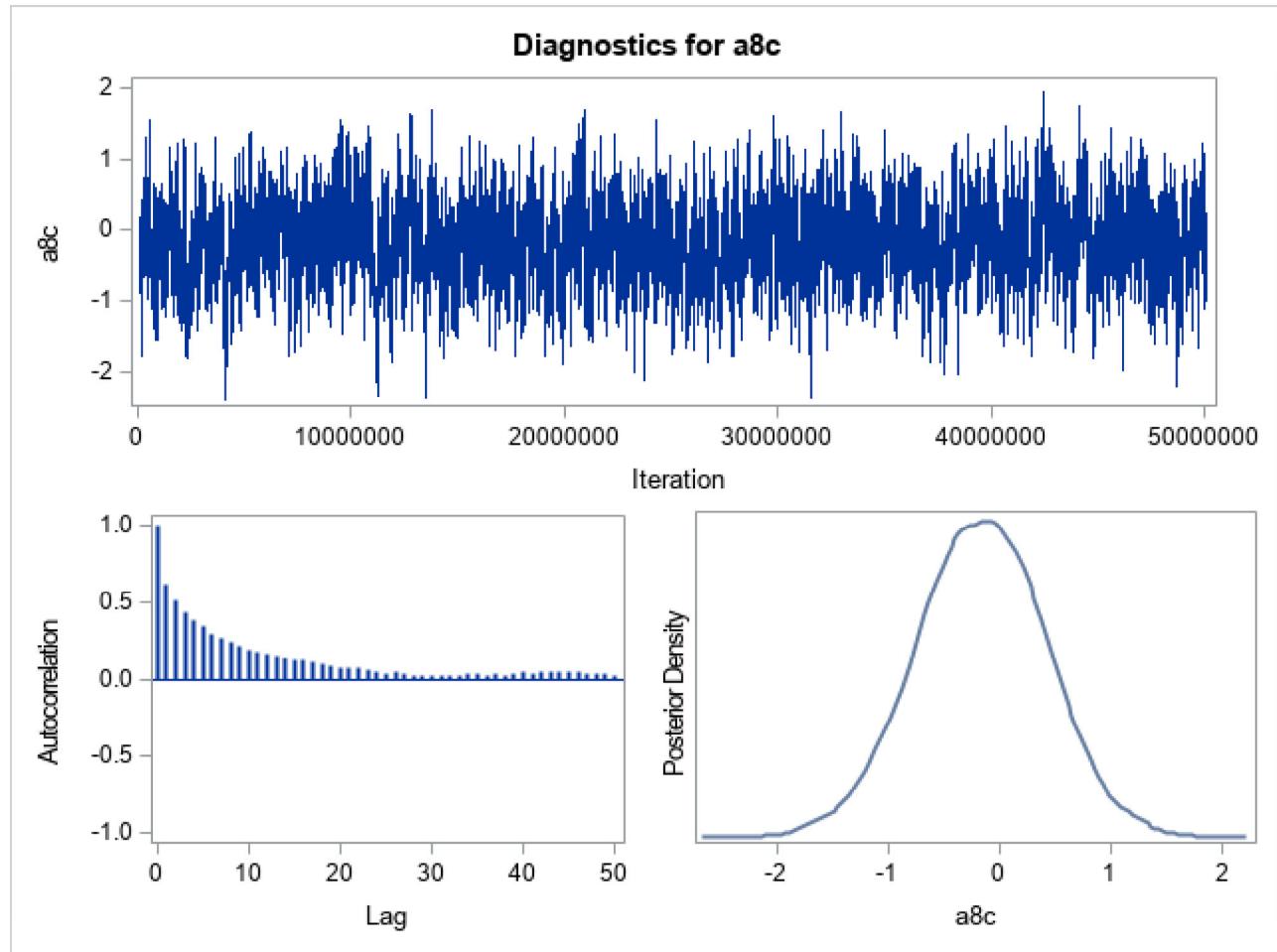


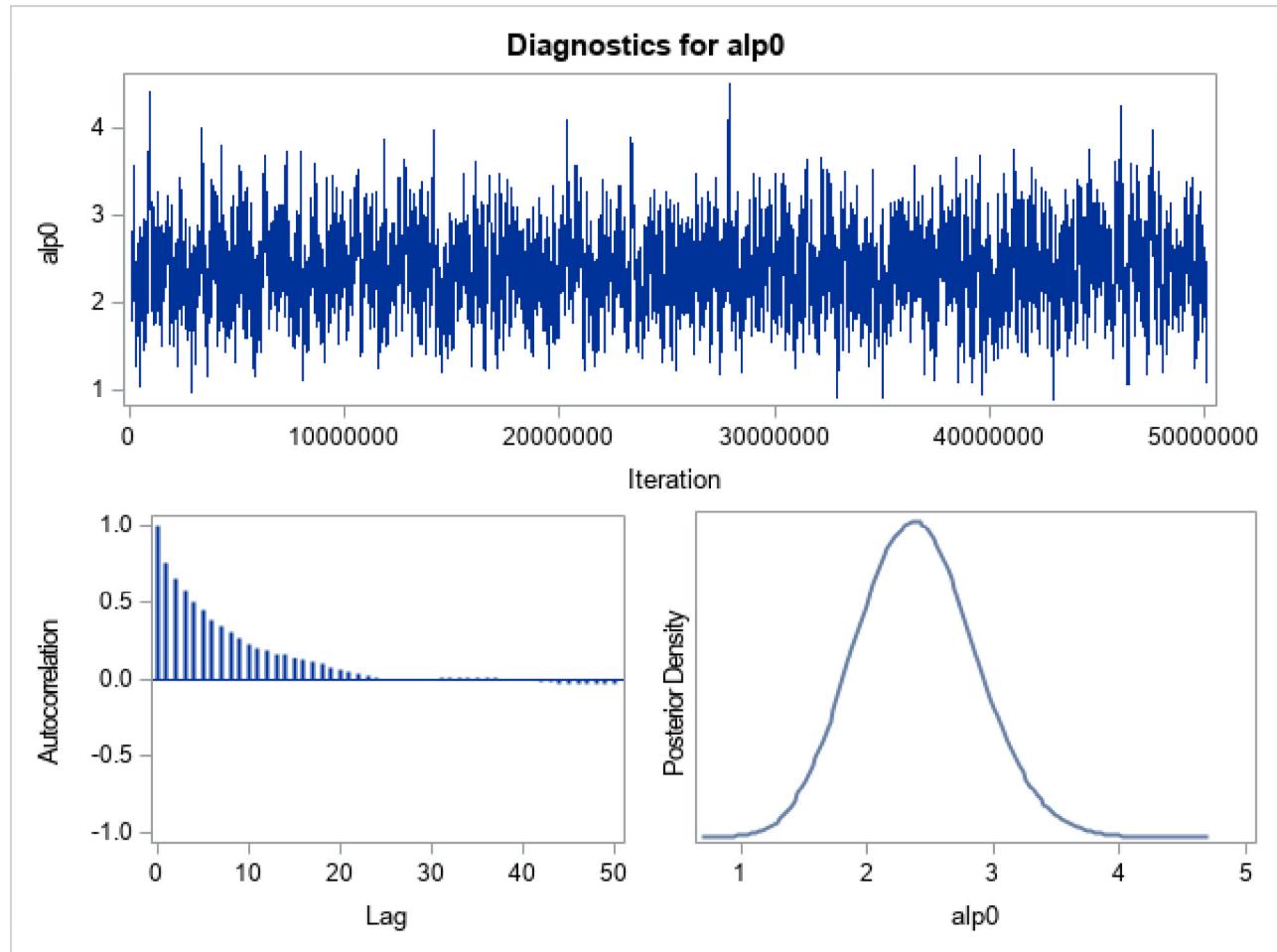


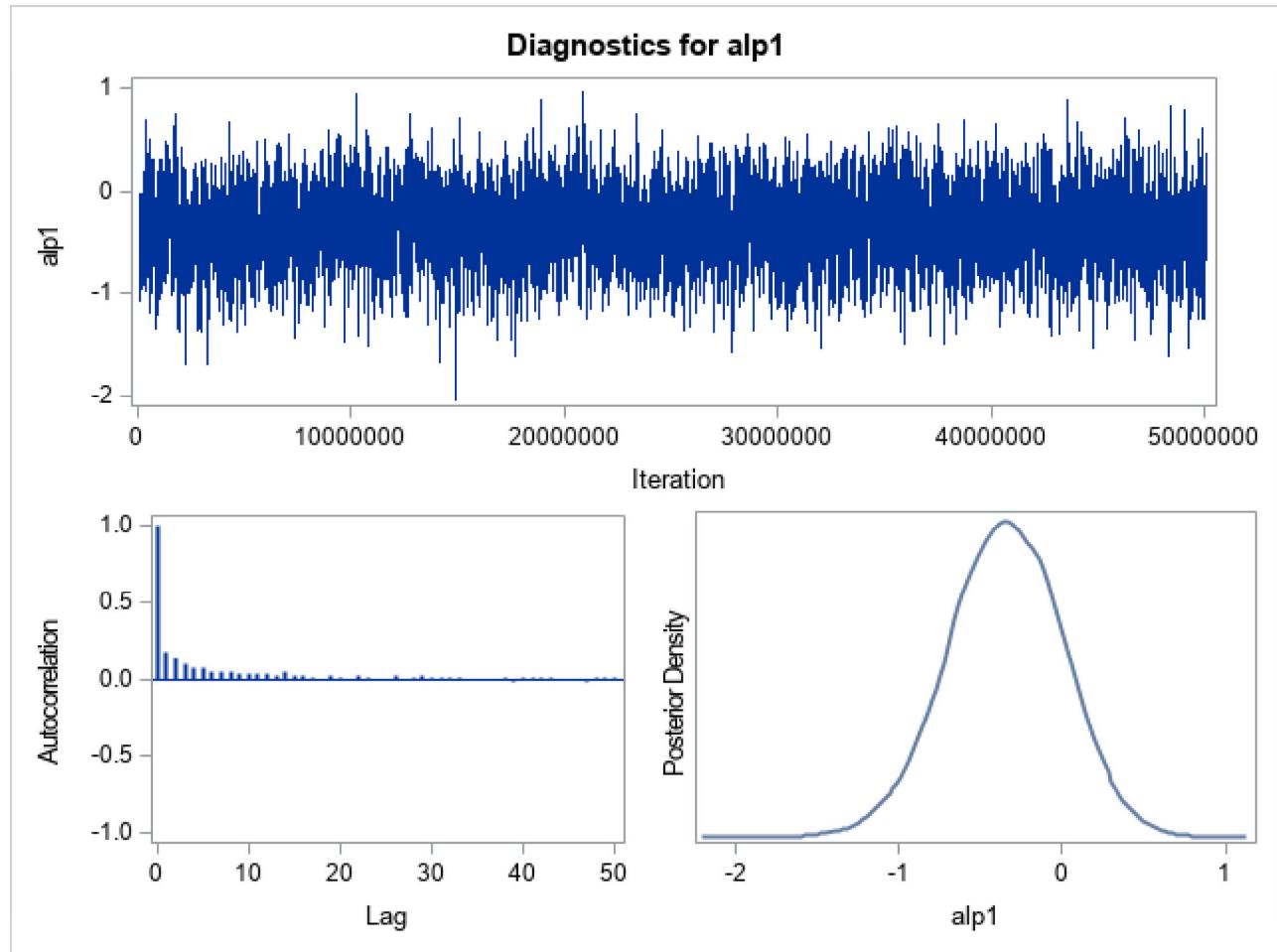


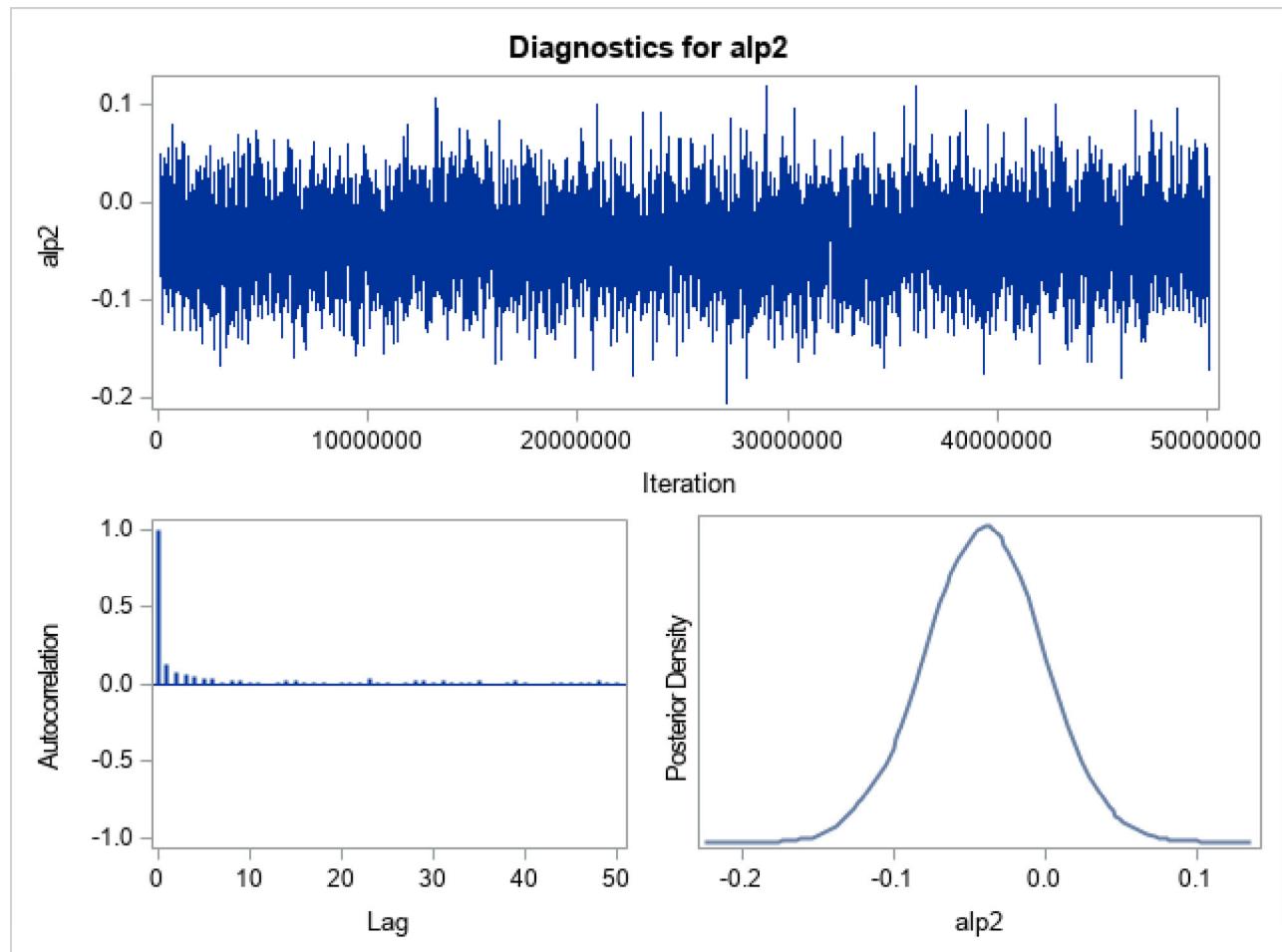


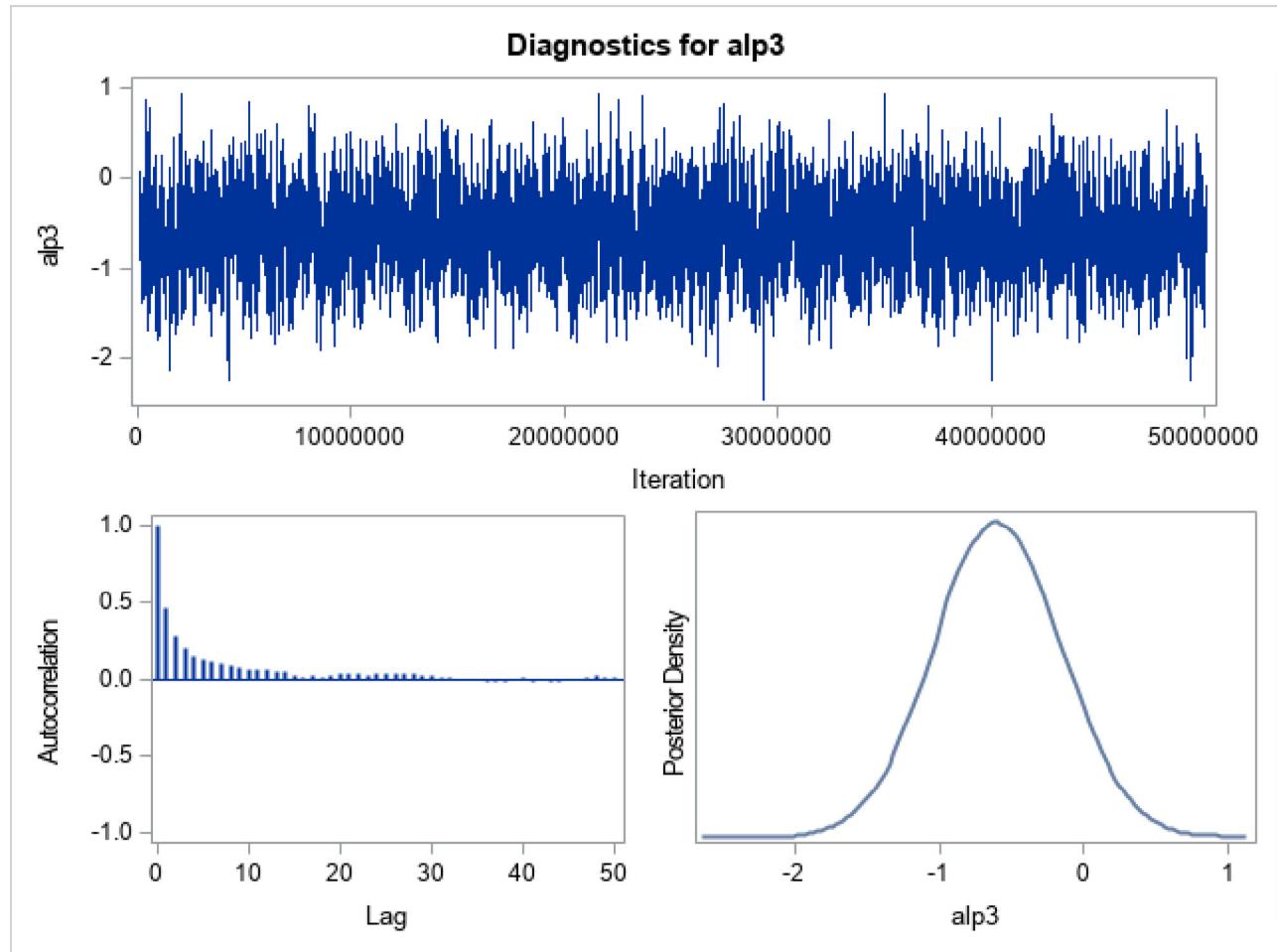


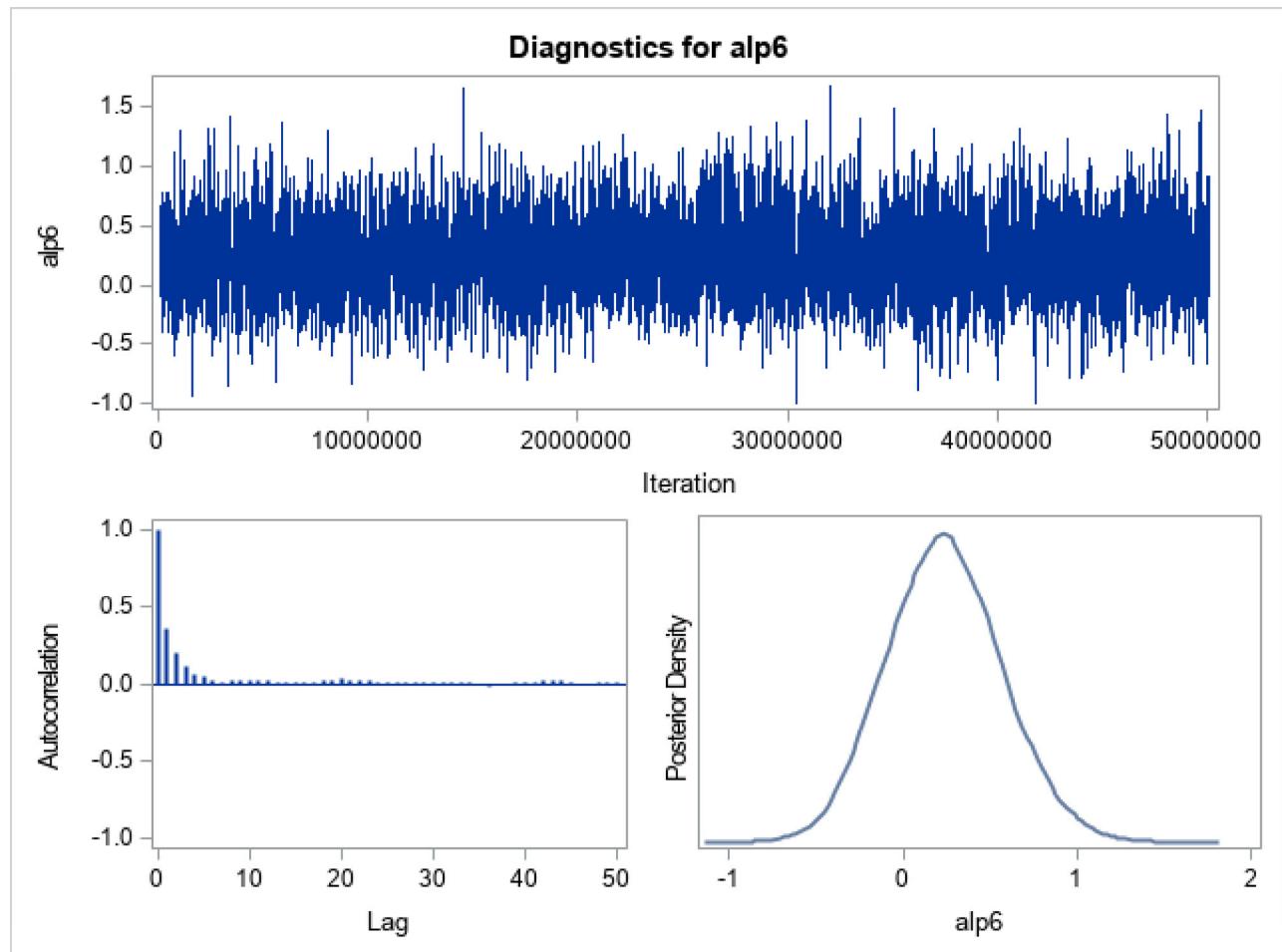


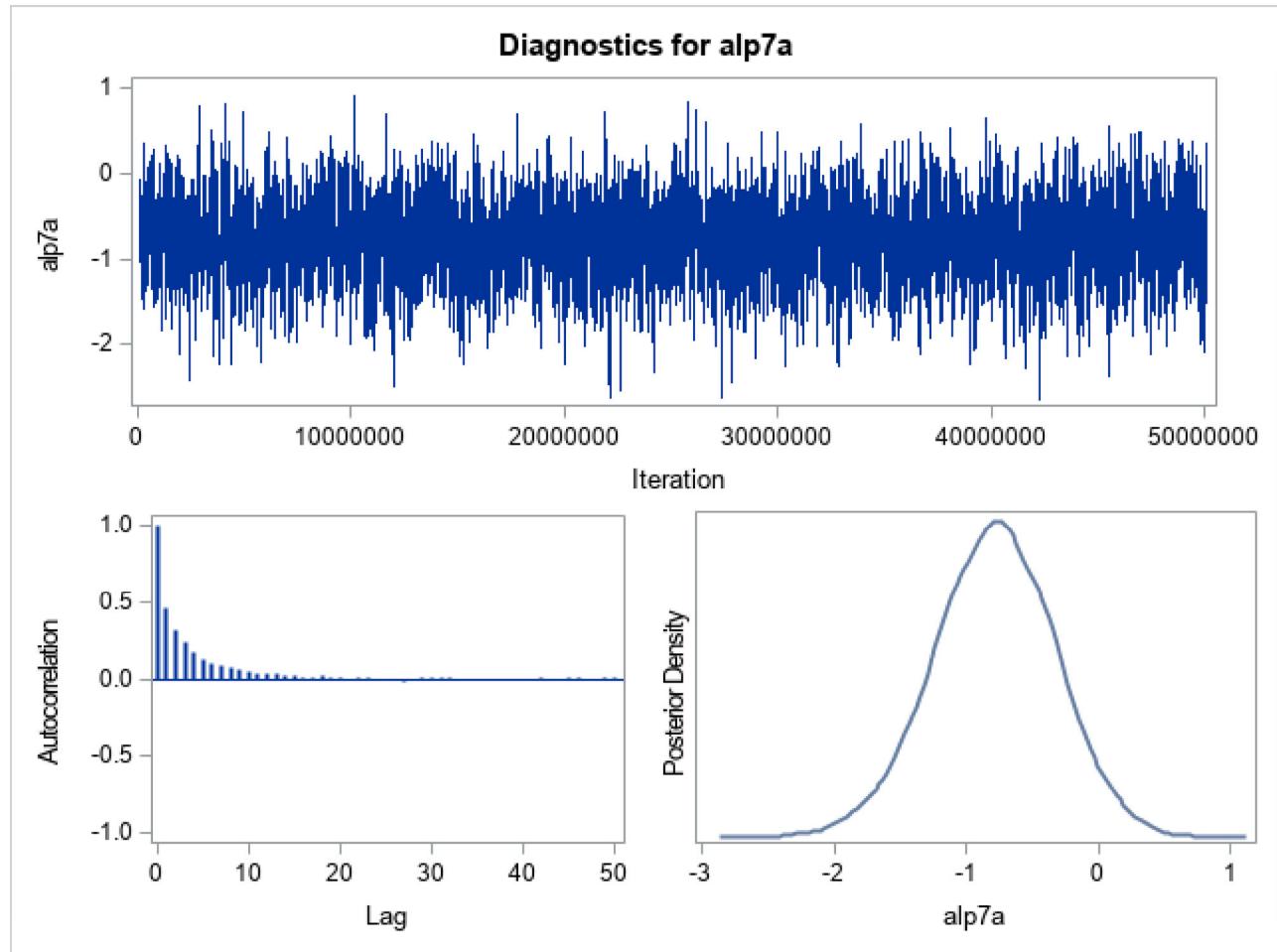


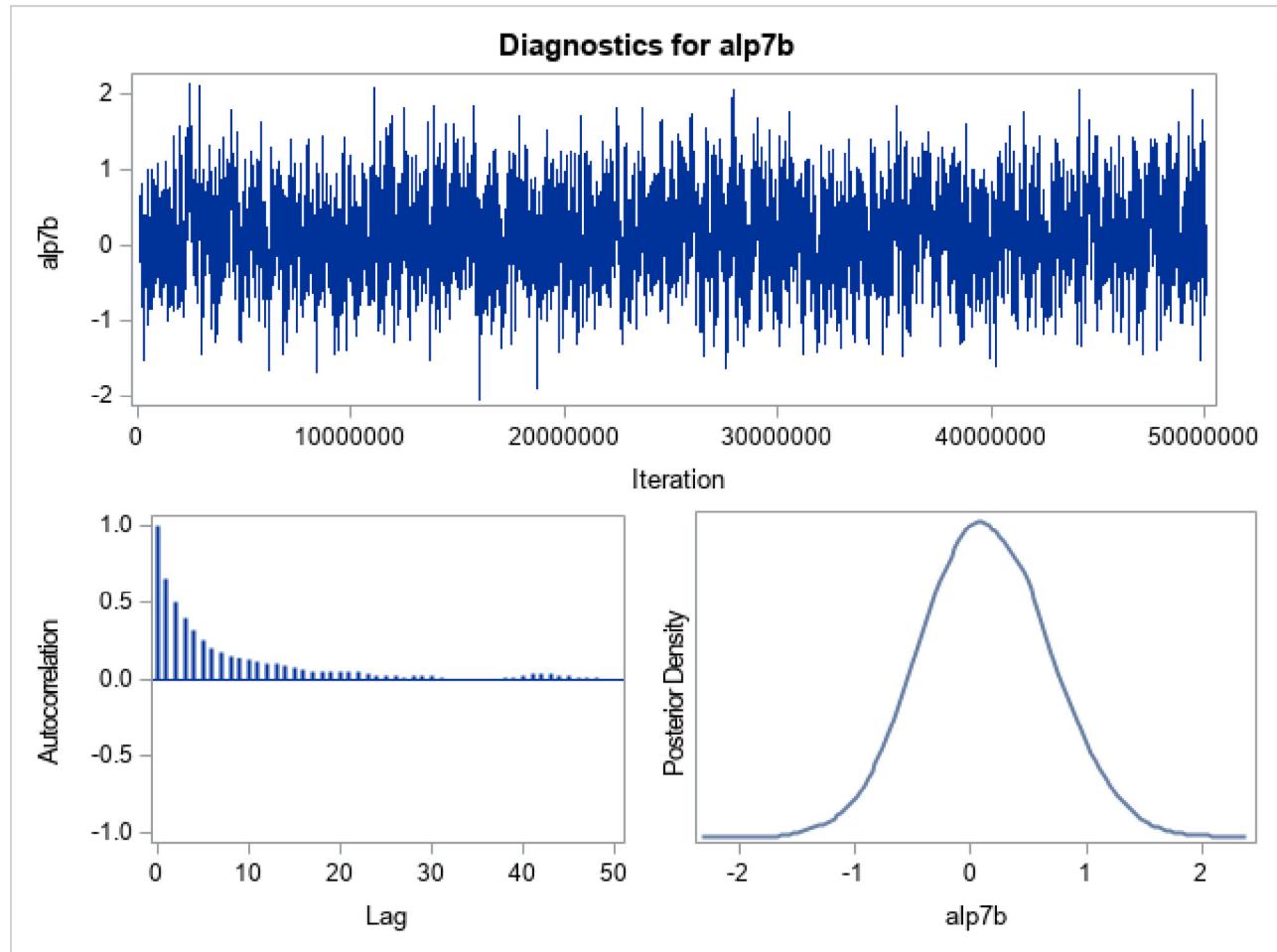


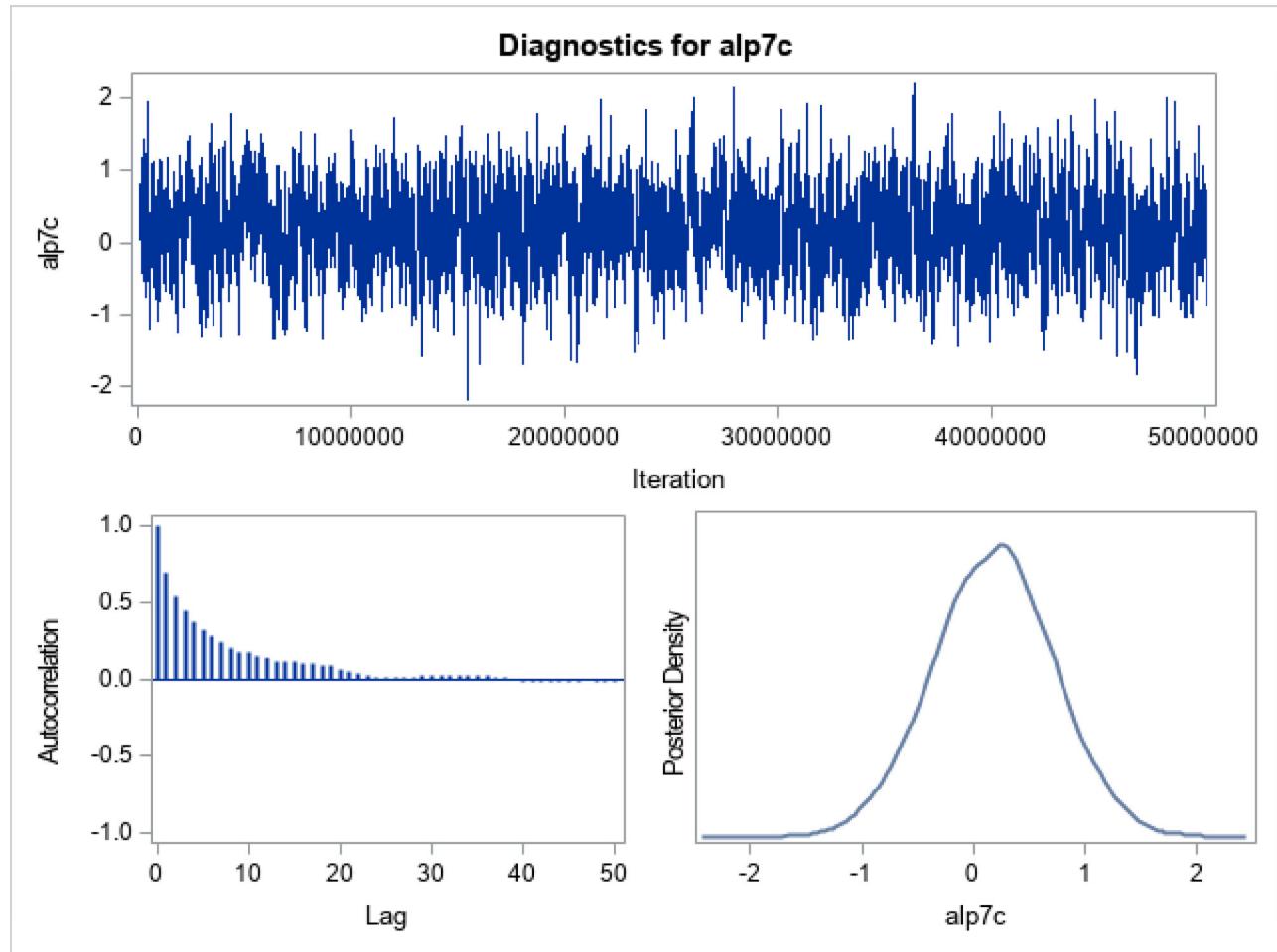


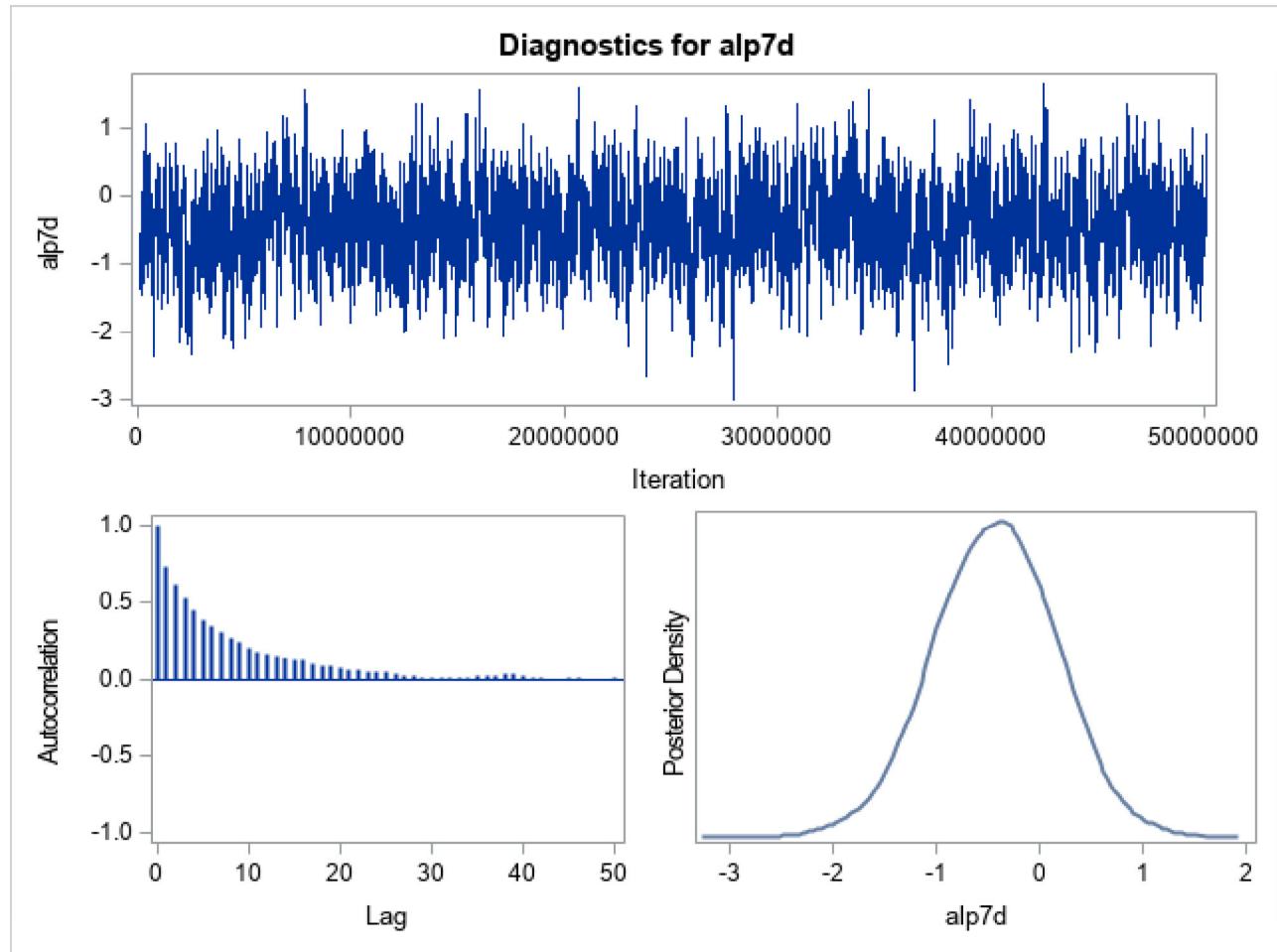


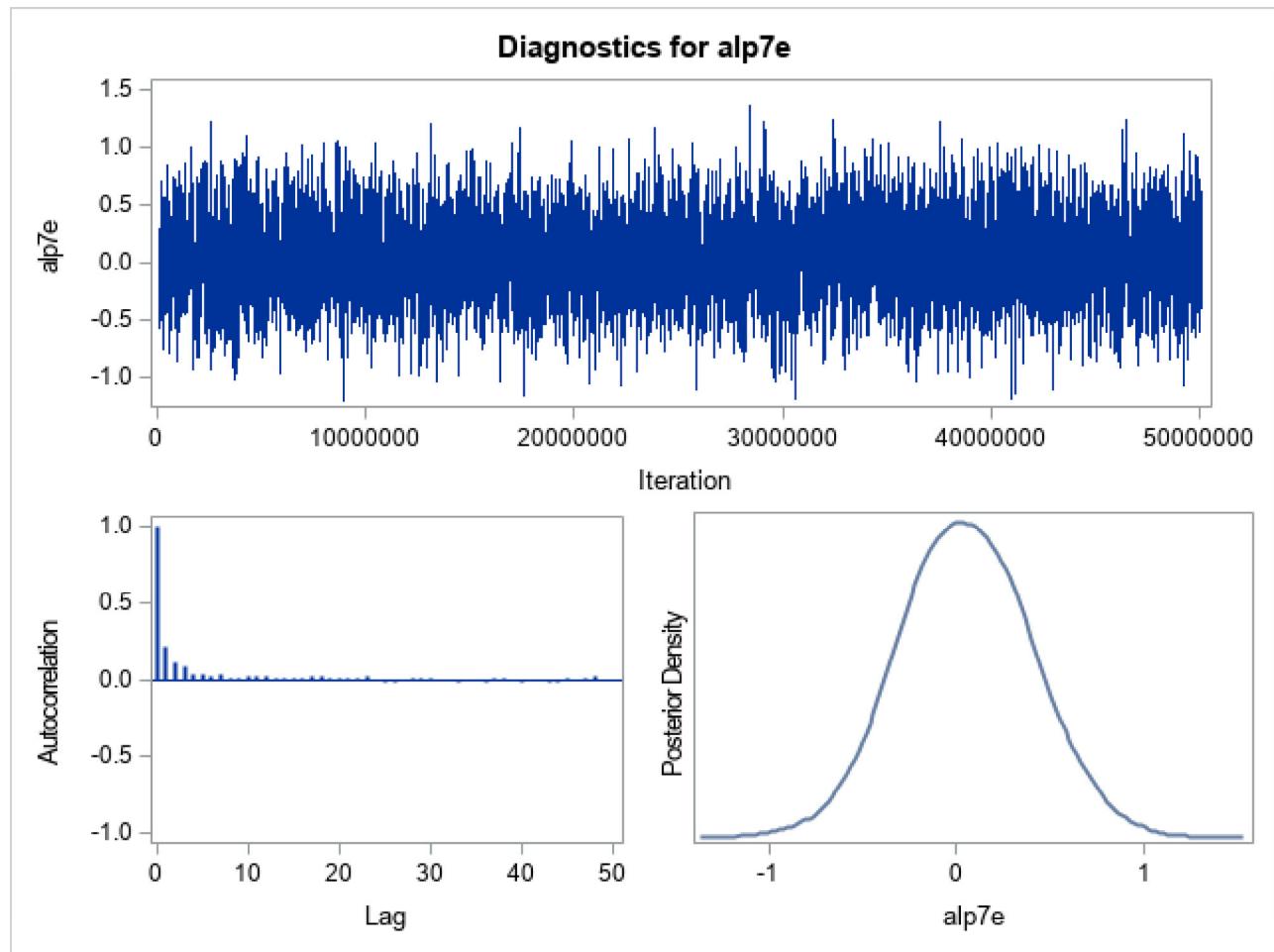


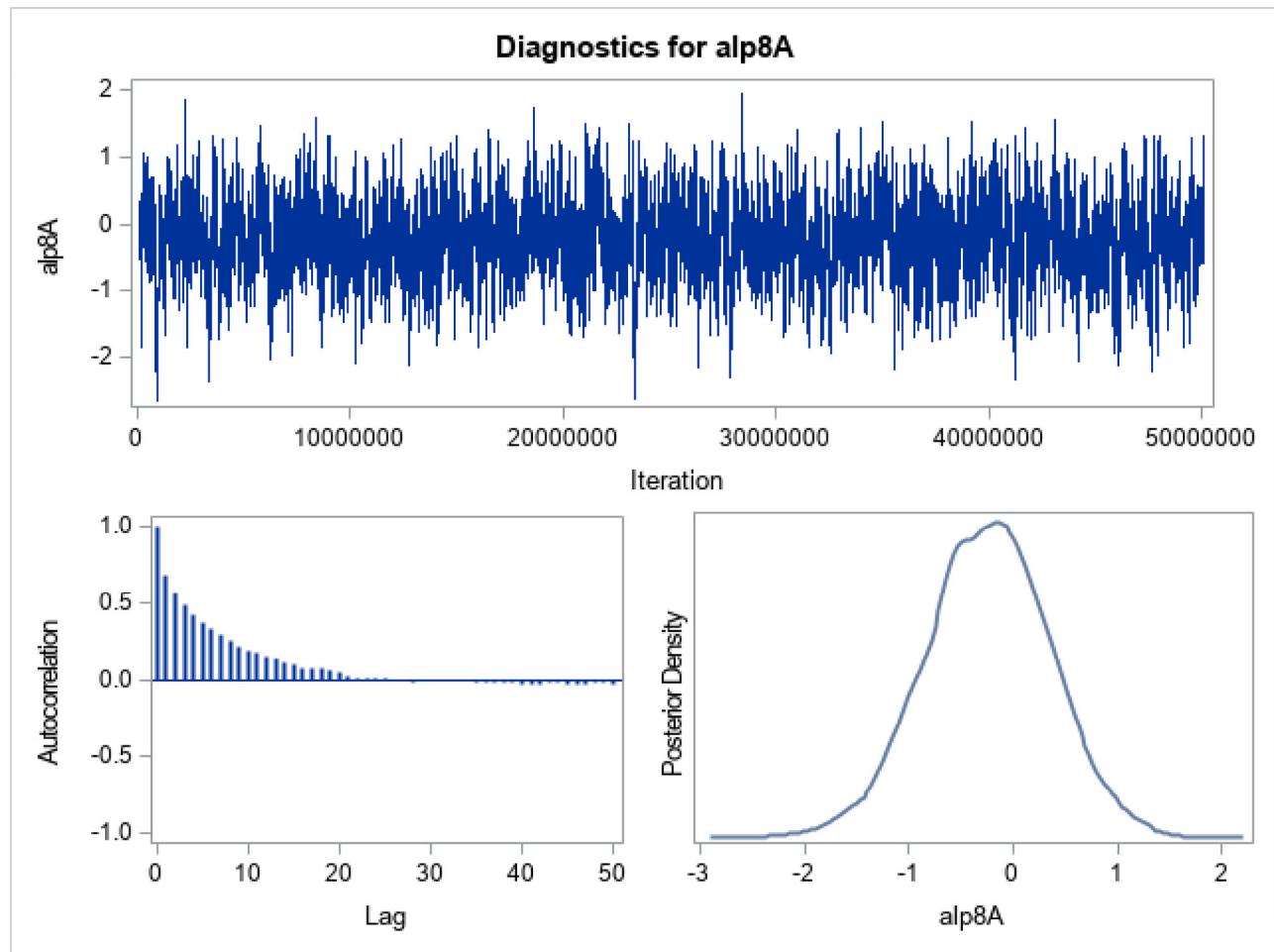


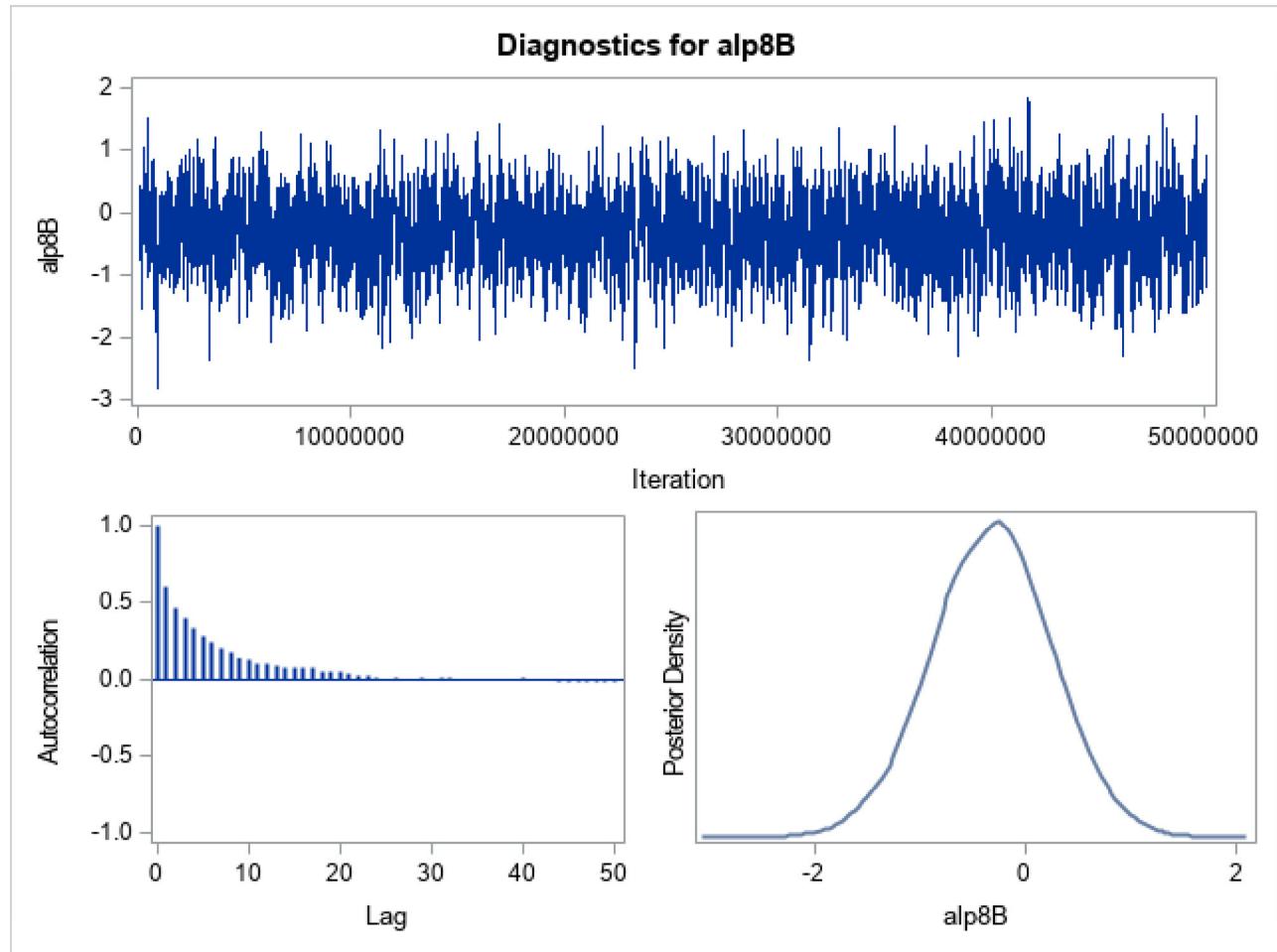


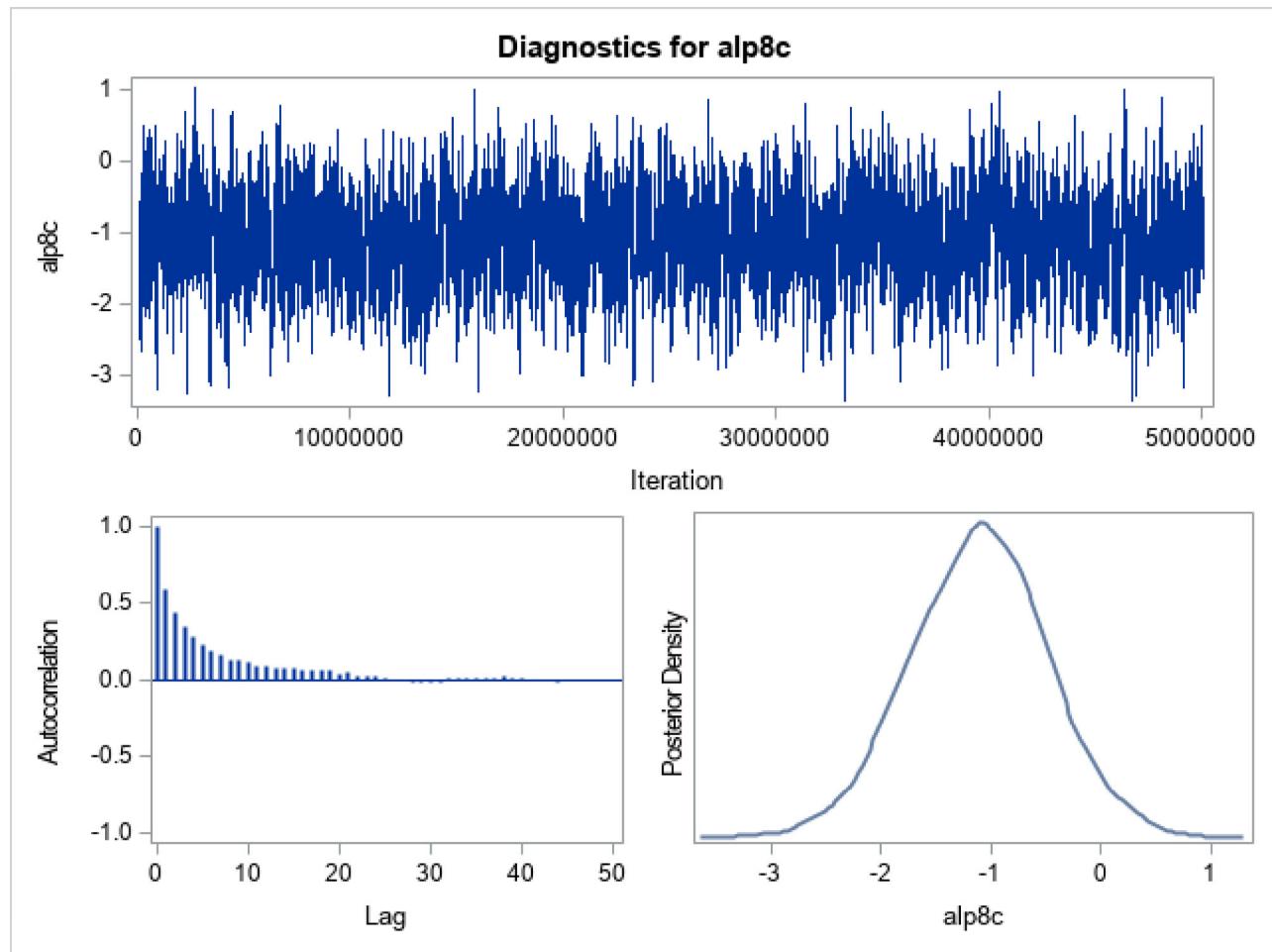


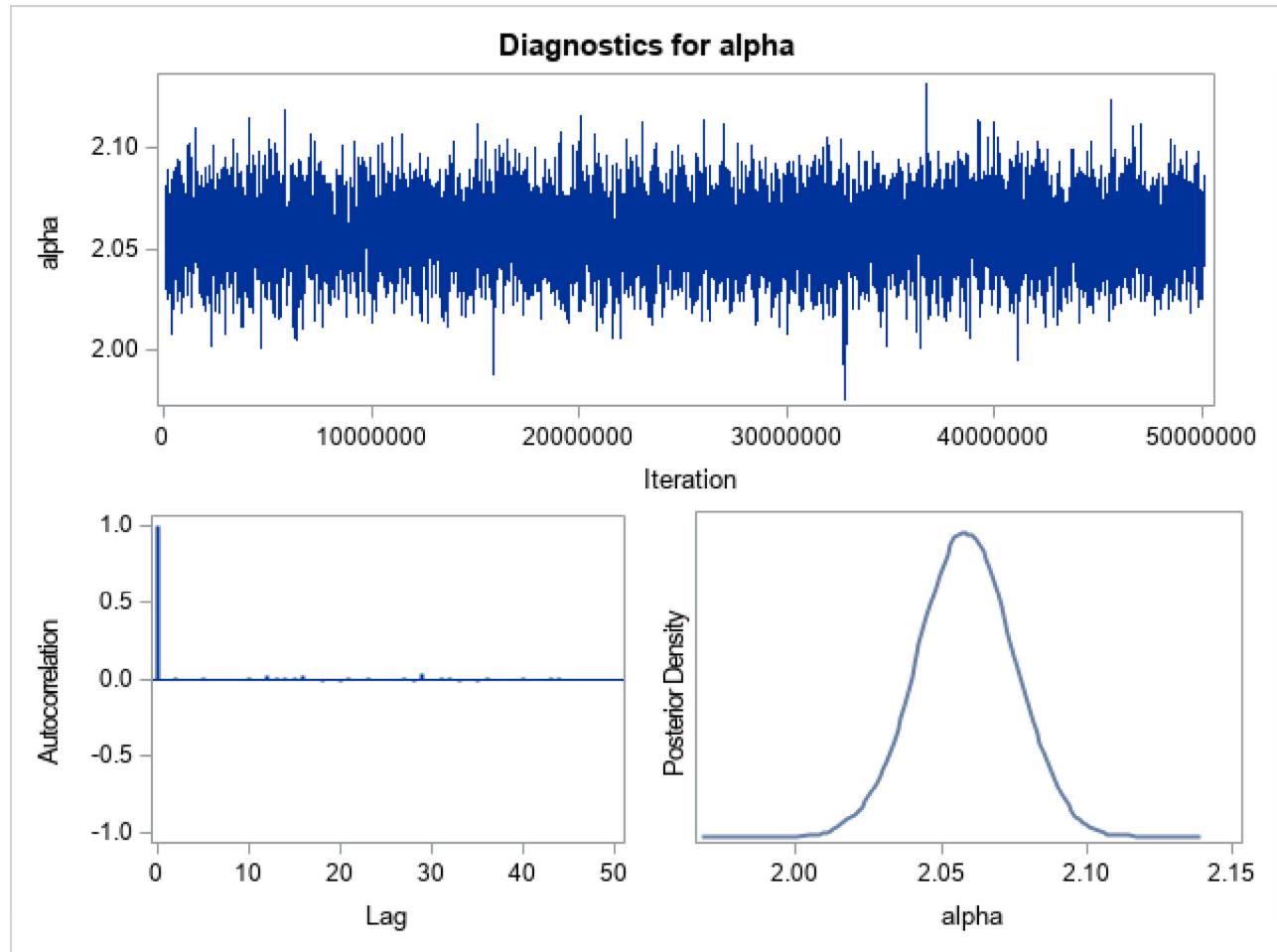


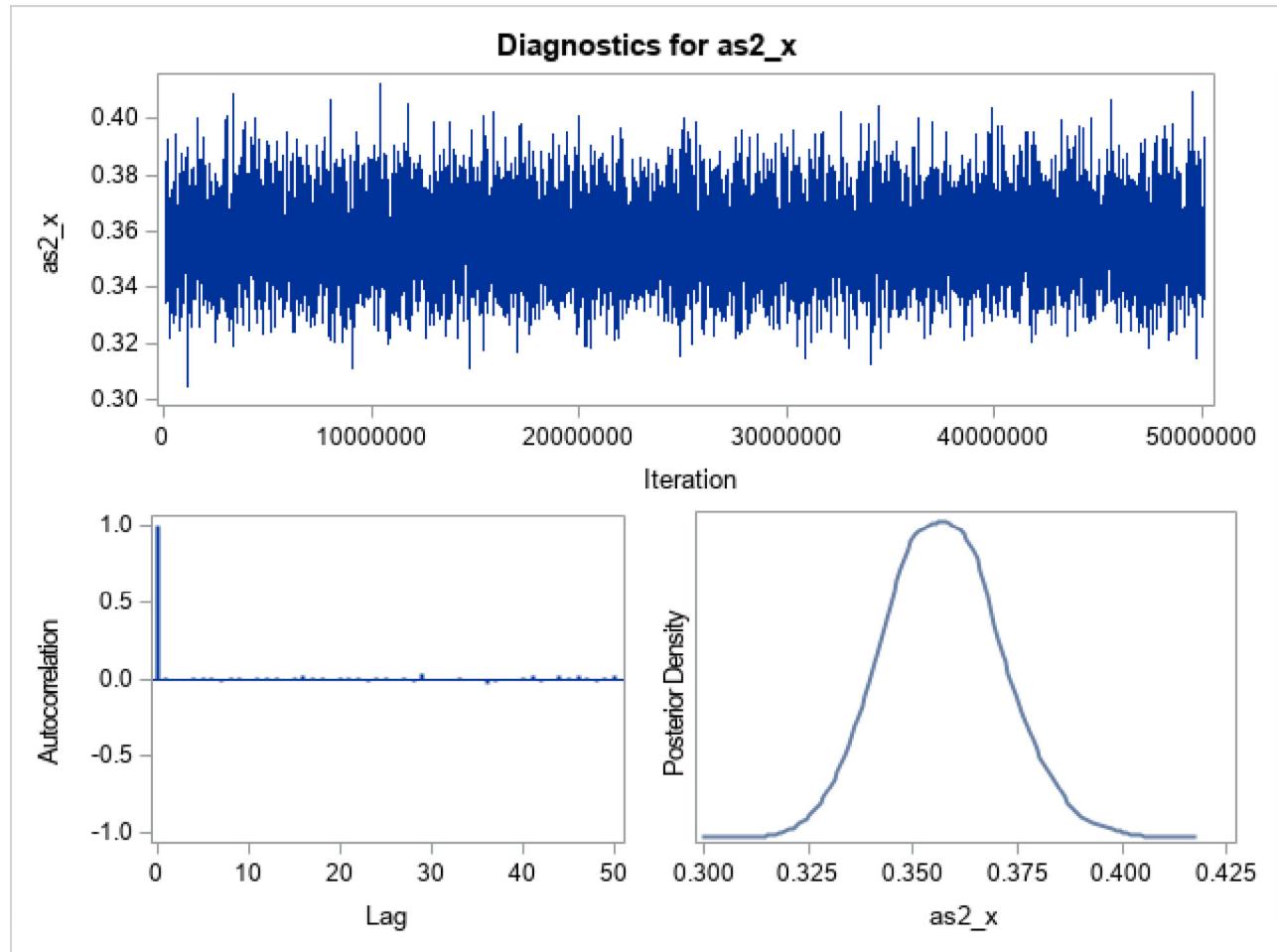












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**conditional two part MELS for binary PA by personality****The MEANS Procedure**

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
M2ID	MIDUS 2 ID number	7108	14588.46	2660.22	10001.00	19193.00
A1PB3E	Current employment - Retired	7058	1.8574667	0.3496210	1.0000000	2.0000000
female		7108	0.5157569	0.4997868	0	1.0000000
NoGEDHS		7095	0.0959831	0.2945888	0	1.0000000
notWhite		6176	0.0932642	0.2908259	0	1.0000000
White		6176	0.9067358	0.2908259	0	1.0000000
ADL_c1		6308	0.1724001	0.5139970	0	3.0000000
agency		6256	2.6922688	0.6603319	1.0000000	4.0000000
agree		6271	3.4893292	0.4893675	1.0000000	4.0000000
cons		6270	3.4208799	0.4423218	1.0000000	4.0000000
extra		6271	3.1995482	0.5603725	1.0000000	4.0000000
neuro		6265	2.2387337	0.6629784	1.0000000	4.0000000
open		6264	3.0168327	0.5263961	1.0000000	4.0000000

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<b>Missing Data Information Table</b>					
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neuro	6	250	251	N-Metropolis	6

<b>Parameters</b>					
<b>Block</b>	<b>Parameter</b>	<b>Sampling Method</b>	<b>Threads</b>	<b>Initial Value</b>	<b>Prior Distribution</b>
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	<b>alp7e</b>			-0.0792	normal(0,var=100)
	<b>alp8A</b>			-0.3213	normal(0,var=100)
	<b>alp8B</b>			-0.3992	normal(0,var=100)
	<b>alp8c</b>			-1.4168	normal(0,var=100)
	<b>as2_x</b>			0.3571	normal(0,var=100)

### Random Effect Parameters

Parameter	Sampling Method	Threads	Subject	Number of Subjects	Subject Values	Prior Distribution
ai	N-Metropolis	12	M2ID	180	10117 10189 10250 10469 10482 10532 10563 10604 10682 10690 10721 10732 10748 10871 10889 10905 10985 11034 11042 11050 ...	normal(0,sd=1)

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**conditional two part MELS for binary PA by personality****The MCMC Procedure**

Posterior Summaries and Intervals					
Parameter	N	Mean	Standard Deviation	95% HPD Interval	
a0	10000	0.9323	0.5662	-0.1690	2.0624
a1	10000	-0.3190	0.1787	-0.6619	0.0411
a2	10000	-0.0148	0.3797	-0.7887	0.7027
a3	10000	0.0163	0.3918	-0.7534	0.7835
a6	10000	-0.7930	0.3494	-1.4764	-0.0956
a7a	10000	-0.0327	0.4636	-0.9547	0.8626
a7b	10000	-0.5031	0.5575	-1.5793	0.6082
a7c	10000	0.6092	0.4984	-0.3621	1.5703
a7d	10000	-1.4859	0.6358	-2.7779	-0.2954
a7e	10000	-0.4234	0.3423	-1.0763	0.2703
a8A	10000	-0.1154	0.6616	-1.3792	1.2343
a8B	10000	-0.3714	0.6408	-1.6798	0.8462
a8c	10000	-0.1884	0.5918	-1.3281	0.9803
alp0	10000	2.4130	0.4698	1.5245	3.3231
alp1	10000	-0.3522	0.3529	-1.0631	0.3322
alp2	10000	-0.3993	0.4010	-1.2167	0.3478
alp3	10000	-0.6046	0.4386	-1.5043	0.2275
alp6	10000	0.2371	0.3376	-0.4554	0.8727
alp7a	10000	-0.7794	0.4646	-1.6746	0.1555
alp7b	10000	0.1224	0.5561	-0.9488	1.2222
alp7c	10000	0.1450	0.5483	-0.9068	1.2382
alp7d	10000	-0.3948	0.6017	-1.5741	0.8019
alp7e	10000	0.0508	0.3600	-0.6656	0.7372
alp8A	10000	-0.2719	0.5902	-1.4457	0.8738
alp8B	10000	-0.3445	0.5681	-1.5002	0.7262
alp8c	10000	-1.1197	0.6258	-2.2989	0.1451
alpha	10000	2.0586	0.0161	2.0269	2.0903
as2_x	10000	0.3572	0.0139	0.3313	0.3855

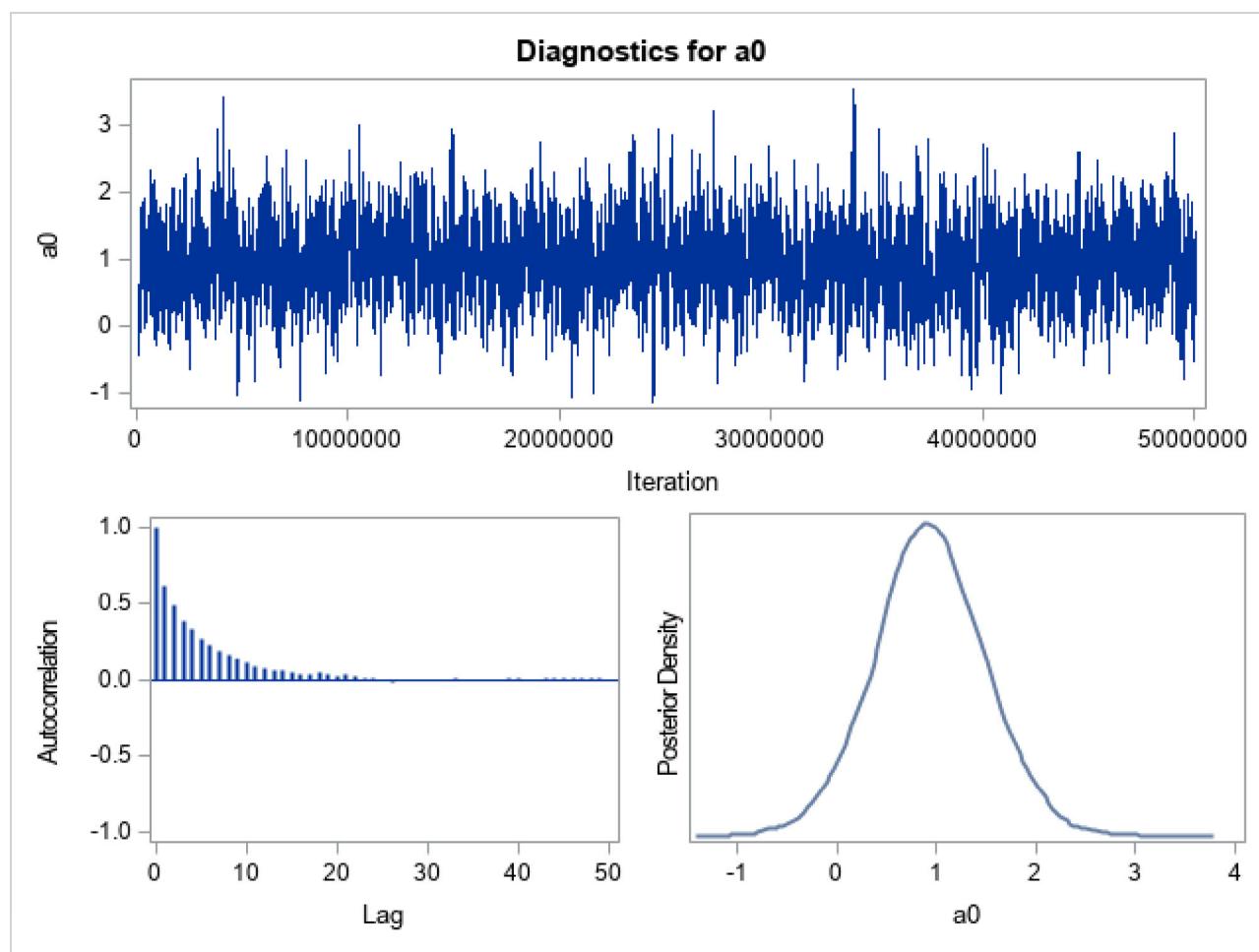
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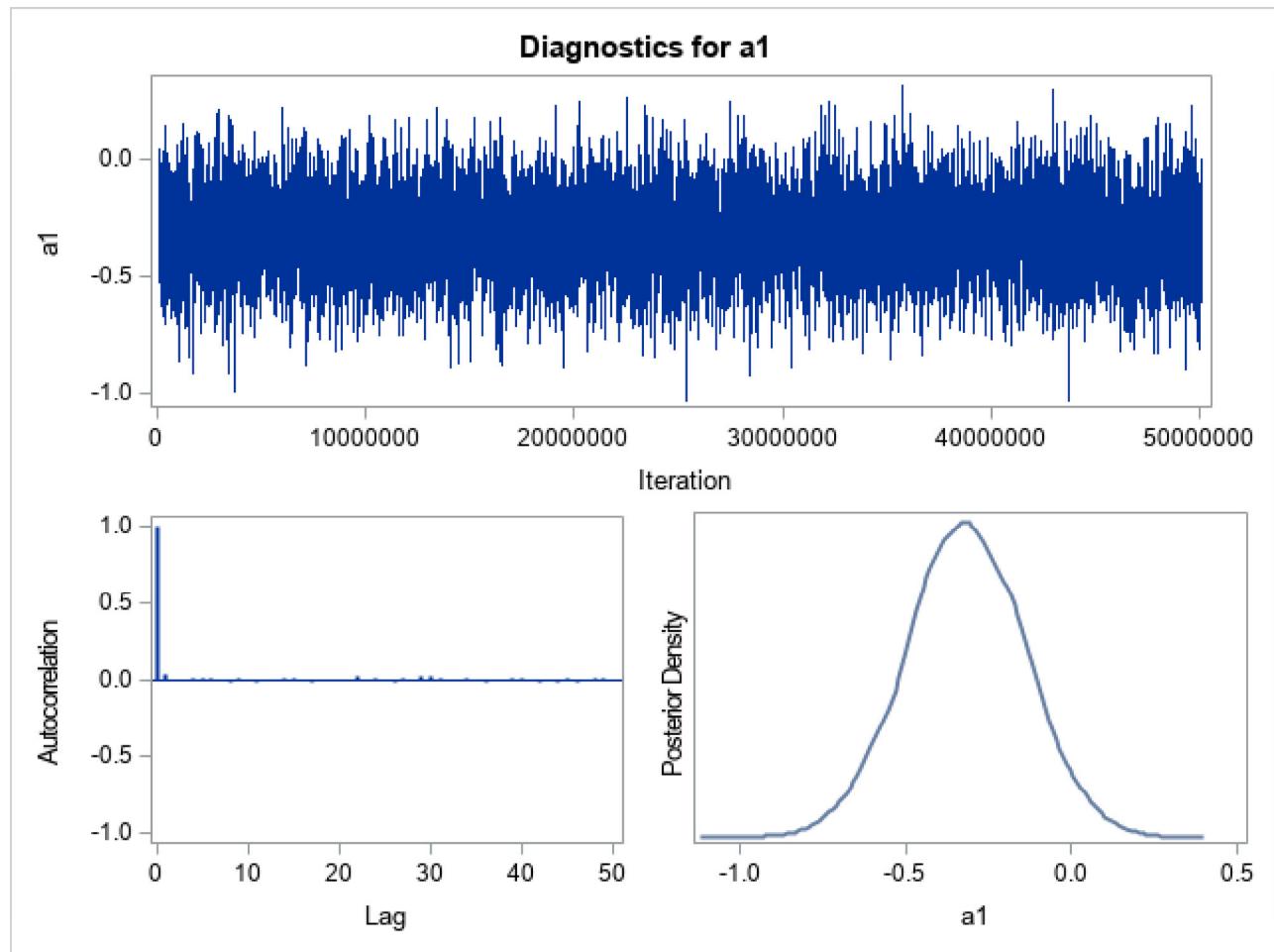
**conditional two part MELS for binary PA by personality****The MCMC Procedure**

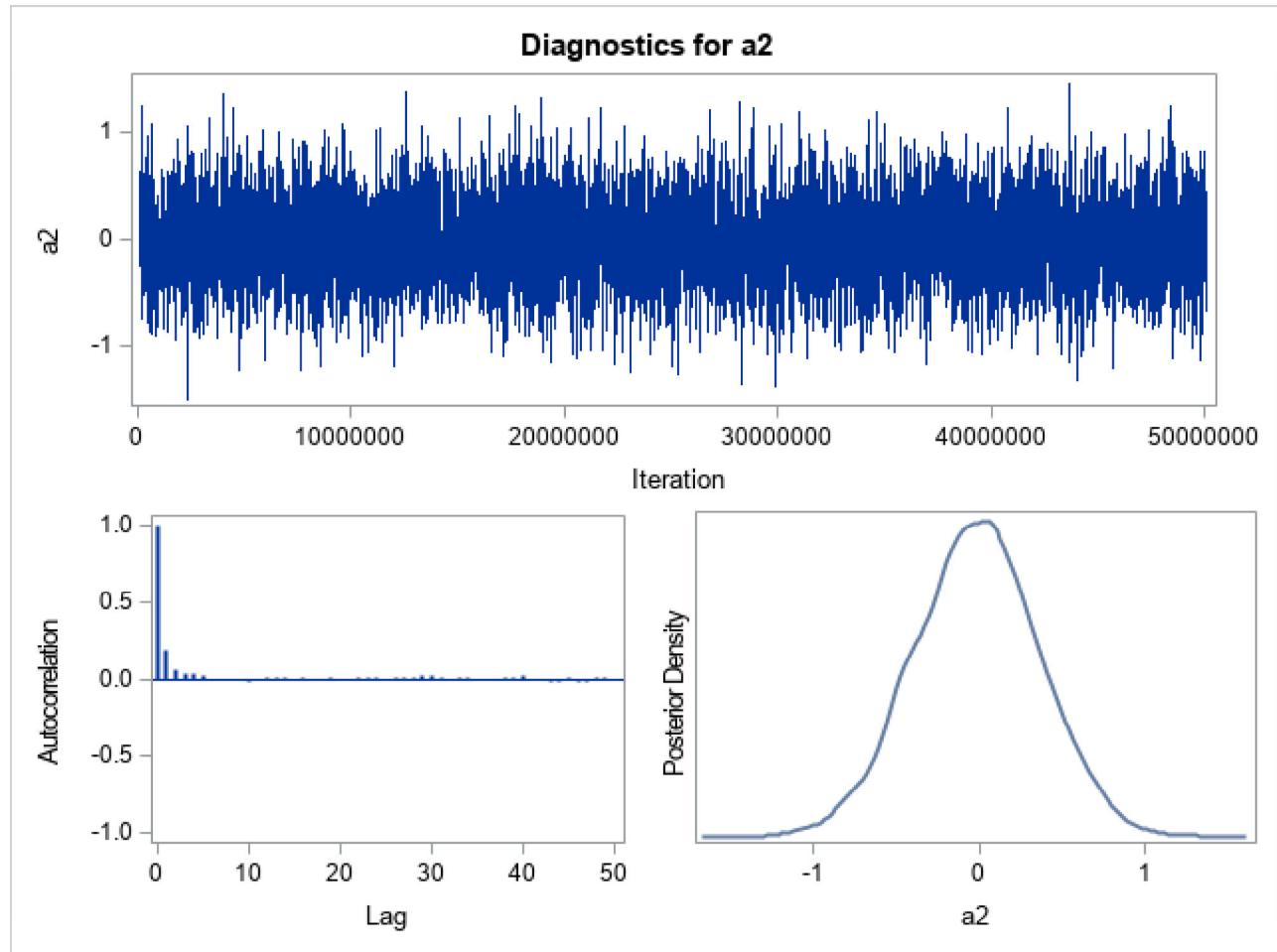
Effective Sample Sizes			
Parameter	ESS	Autocorrelation Time	Efficiency
a0	1268.9	7.8808	0.1269
a1	9354.4	1.0690	0.9354
a2	5948.9	1.6810	0.5949
a3	5372.0	1.8615	0.5372
a6	6758.2	1.4797	0.6758
a7a	3634.7	2.7512	0.3635
a7b	2938.9	3.4027	0.2939
a7c	2001.7	4.9956	0.2002
a7d	2069.0	4.8332	0.2069
a7e	6577.5	1.5203	0.6578
a8A	1263.6	7.9137	0.1264
a8B	1284.6	7.7845	0.1285
a8c	1477.8	6.7666	0.1478
alp0	1950.8	5.1260	0.1951
alp1	4422.8	2.2610	0.4423
alp2	3475.6	2.8772	0.3476
alp3	6064.5	1.6489	0.6065
alp6	6645.2	1.5049	0.6645
alp7a	5174.7	1.9325	0.5175
alp7b	4044.6	2.4724	0.4045
alp7c	3604.4	2.7744	0.3604
alp7d	3501.7	2.8558	0.3502
alp7e	7236.1	1.3820	0.7236
alp8A	1490.8	6.7079	0.1491
alp8B	1580.4	6.3277	0.1580
alp8c	2515.7	3.9751	0.2516
alpha	10000.0	1.0000	1.0000
as2_x	10000.0	1.0000	1.0000

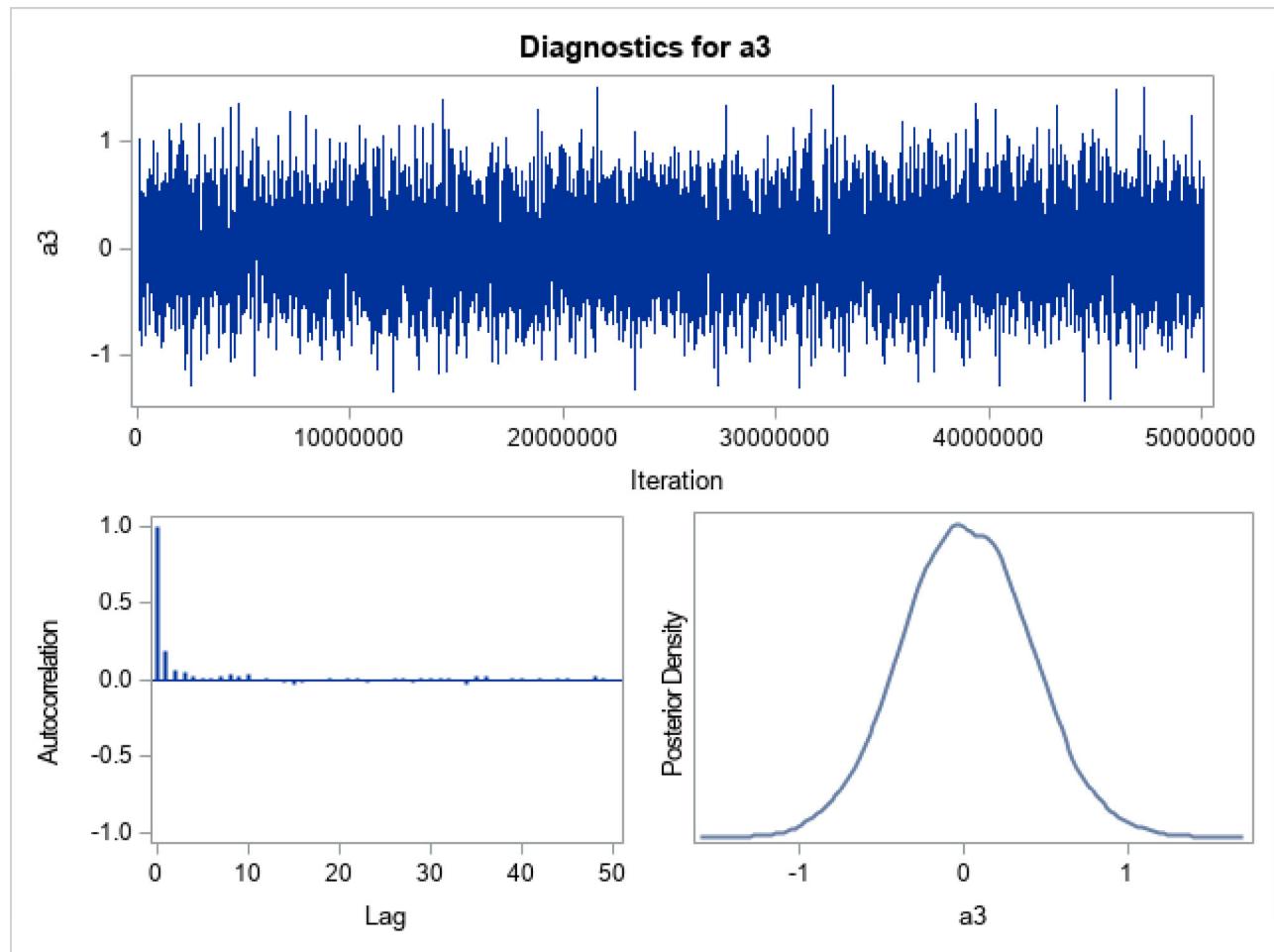
**conditional two part MELS for binary PA by personality**

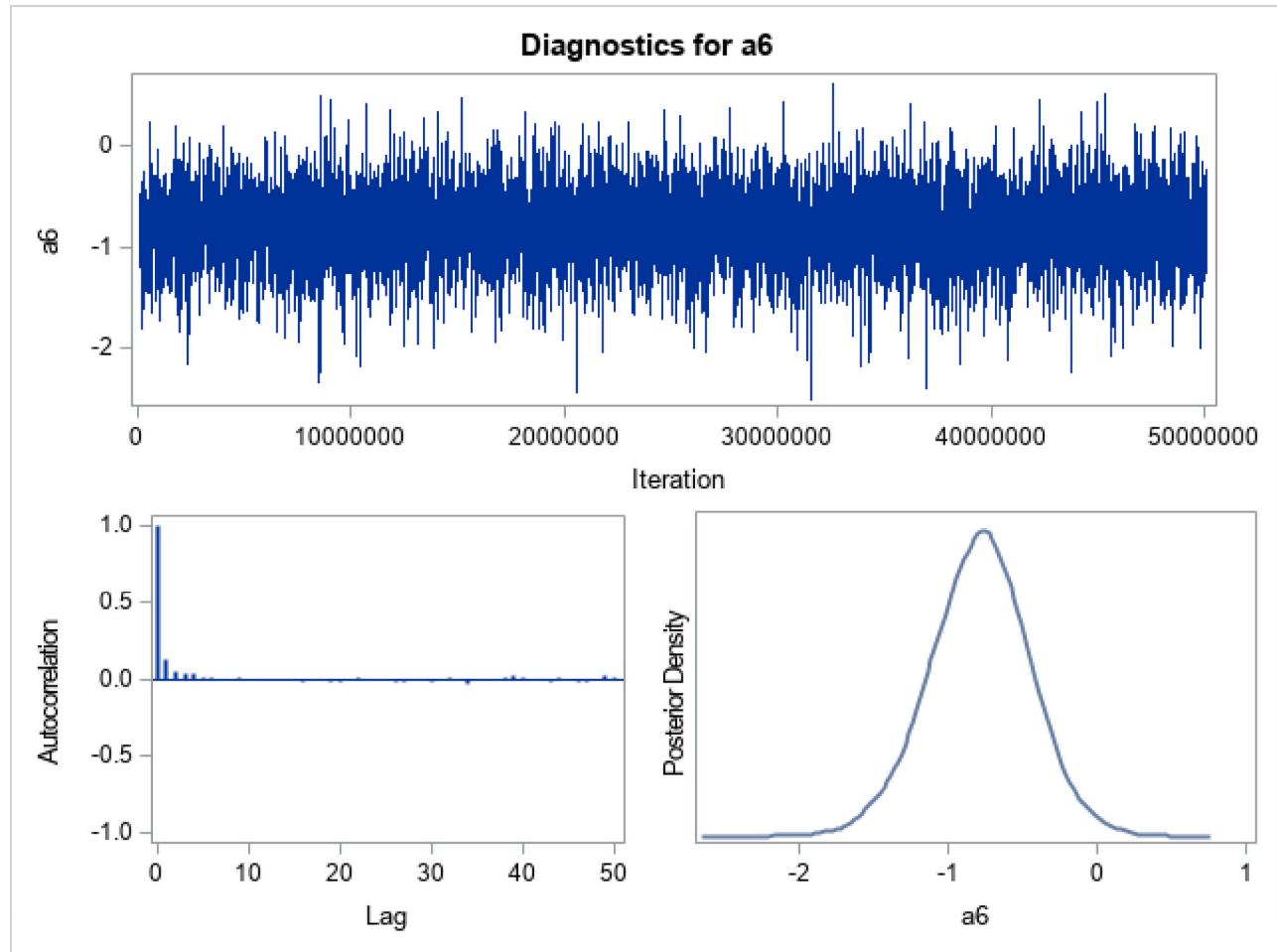
The MCMC Procedure

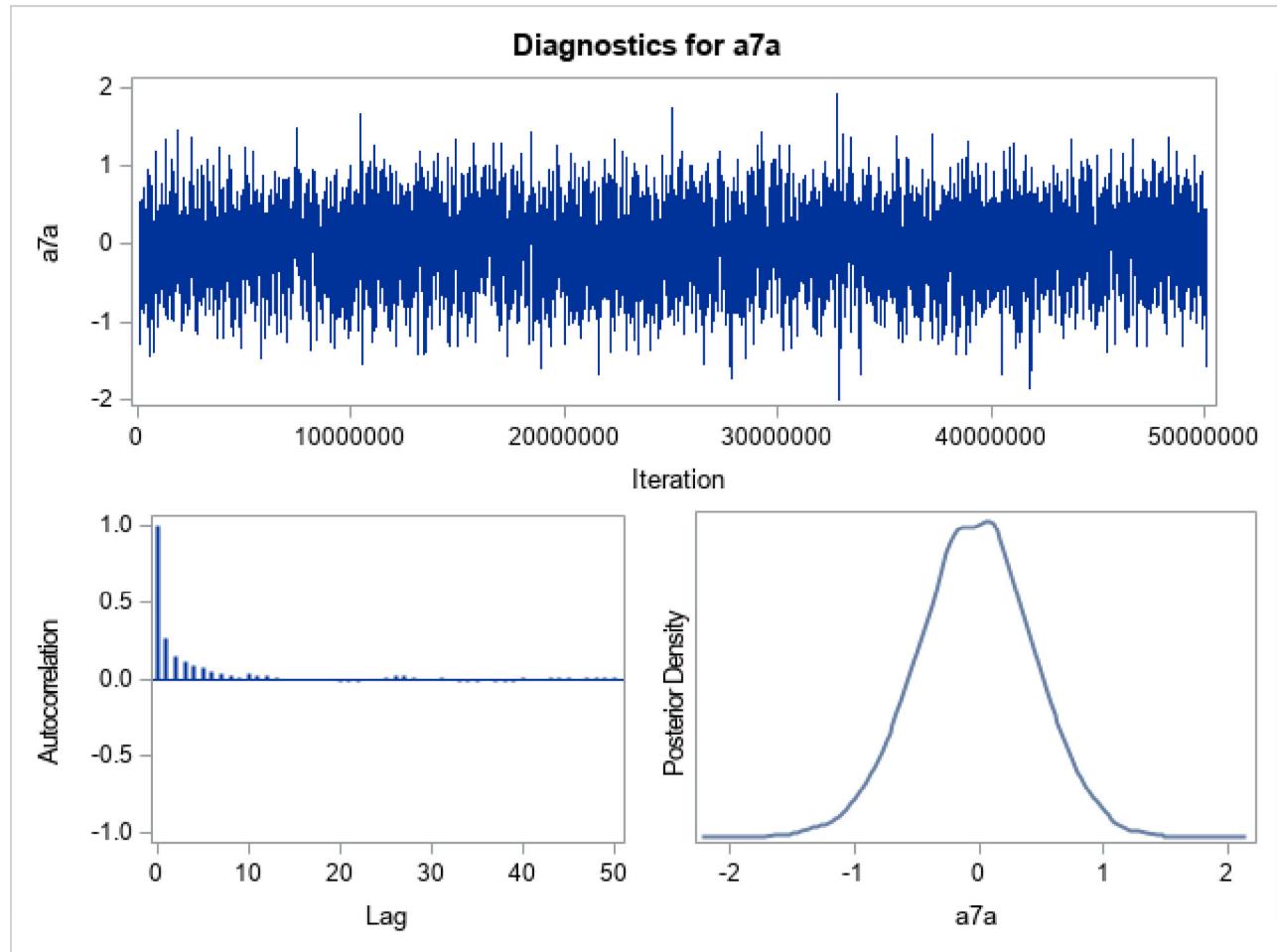


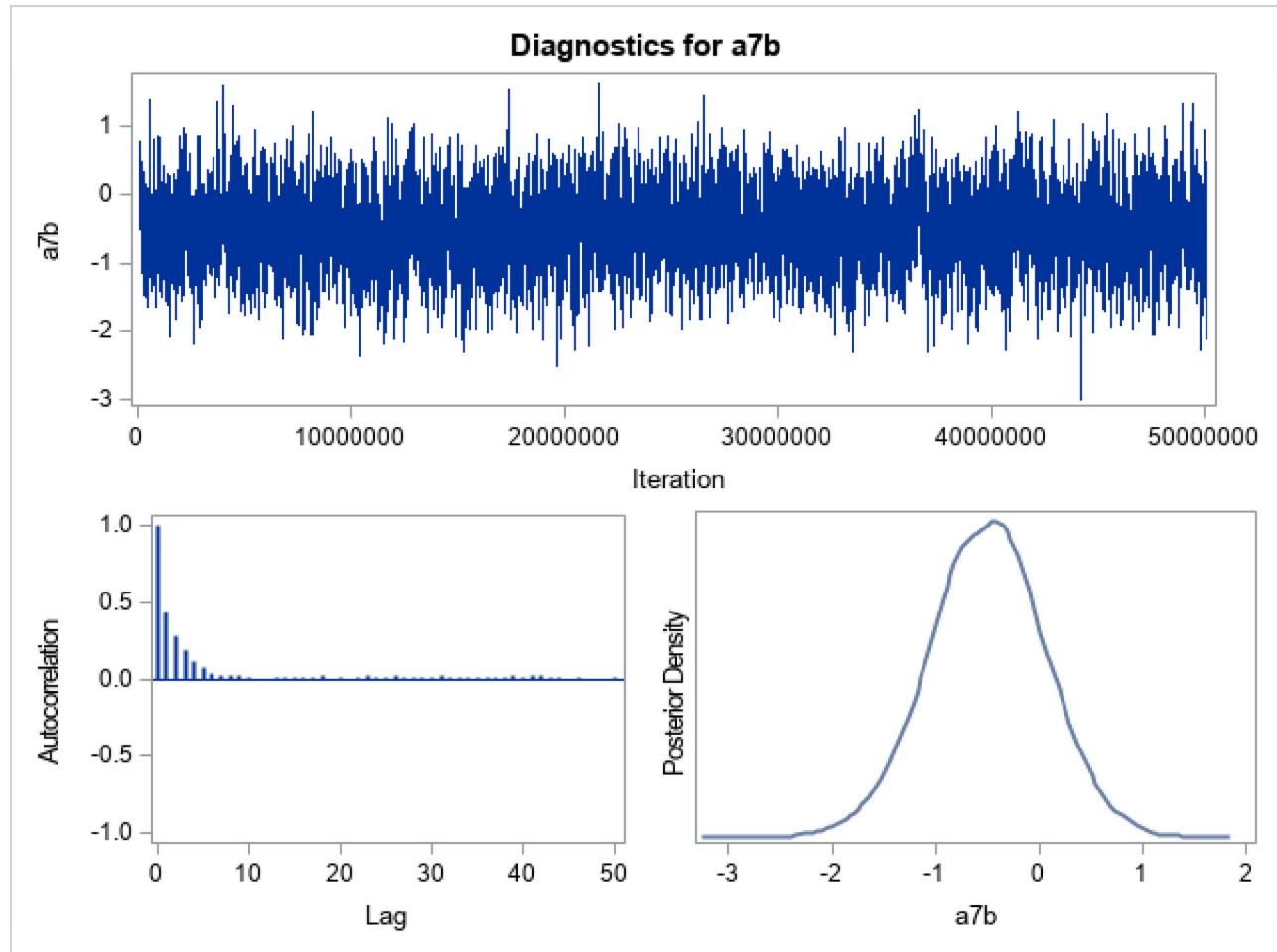


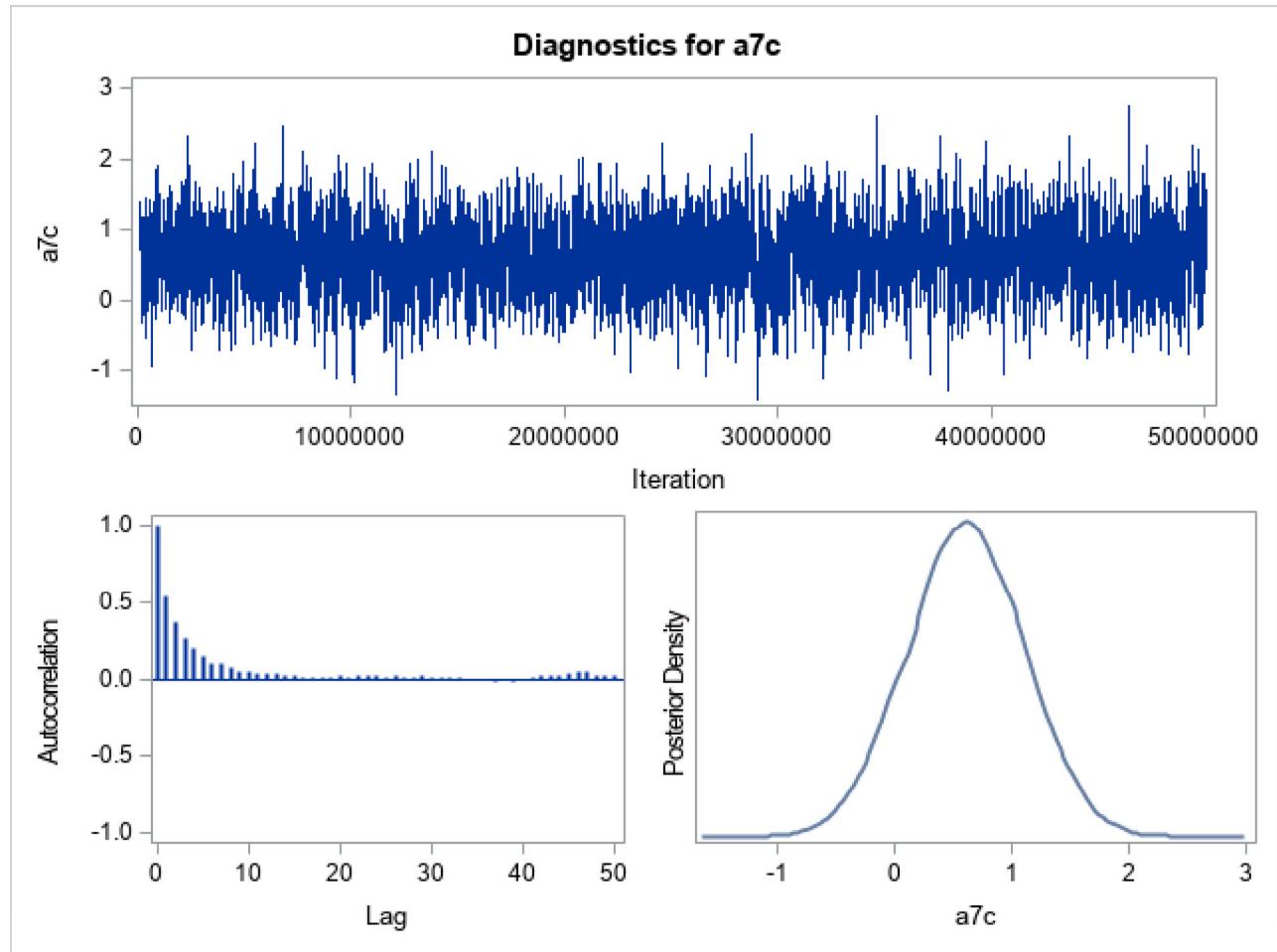


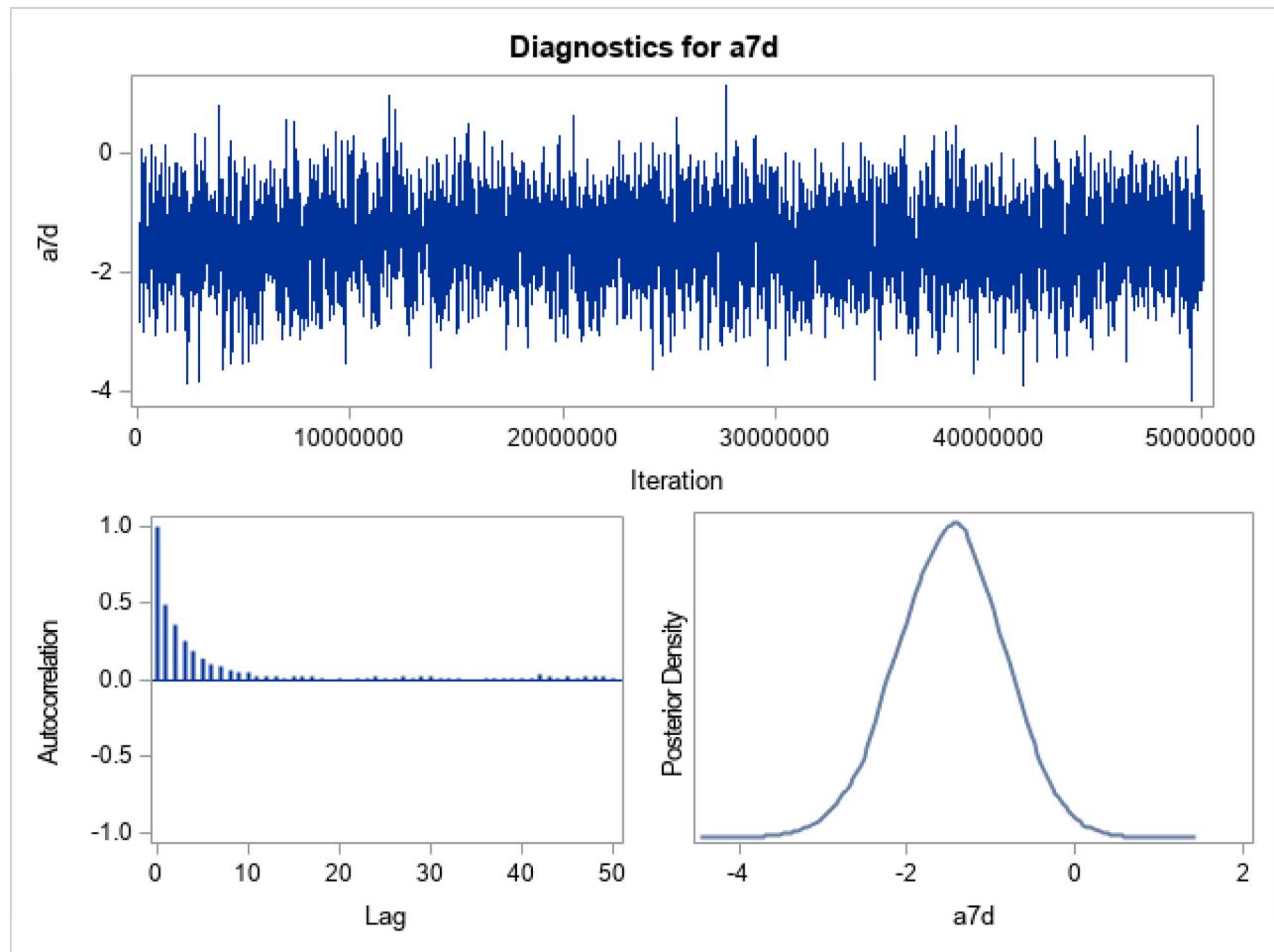


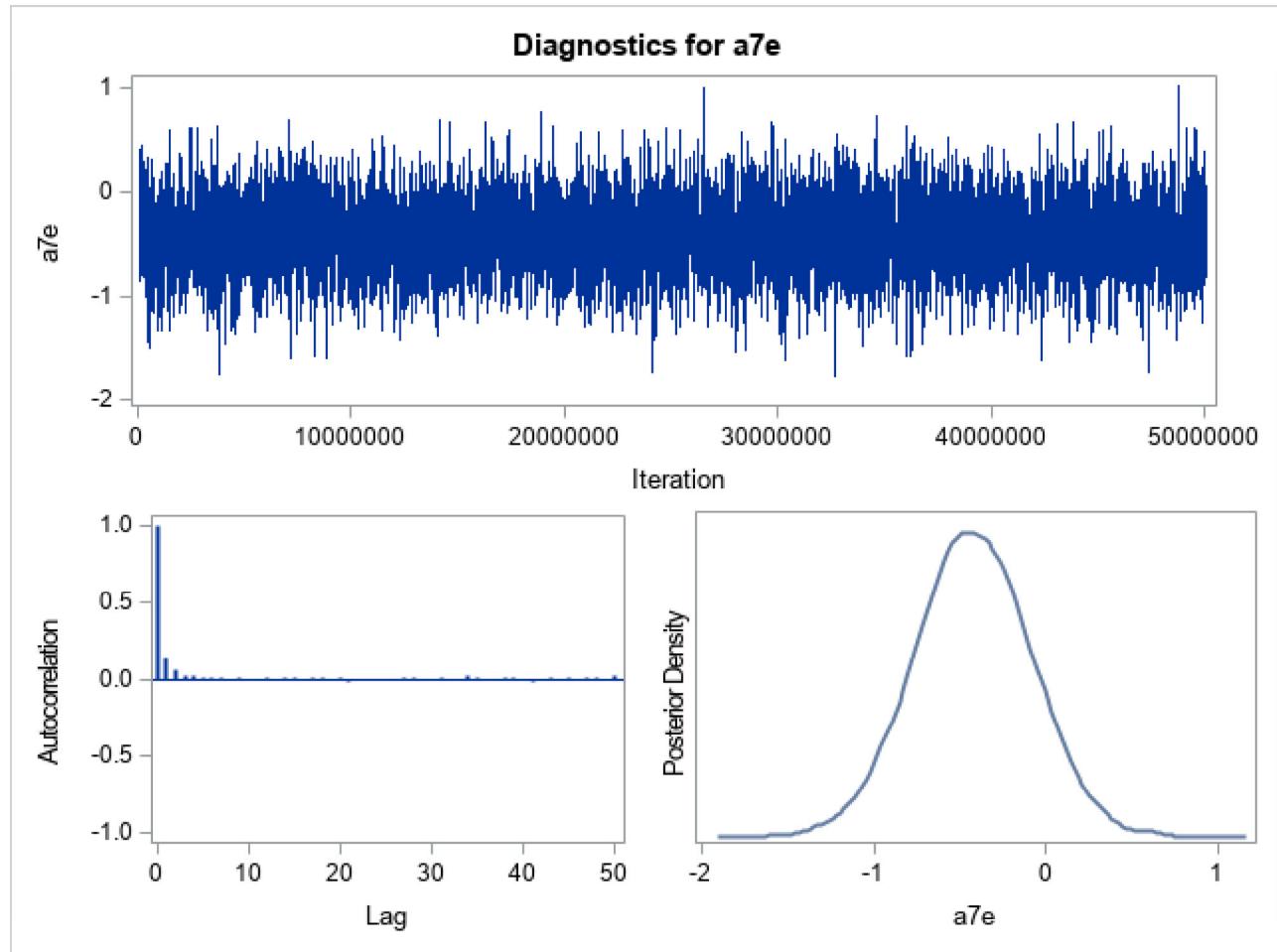


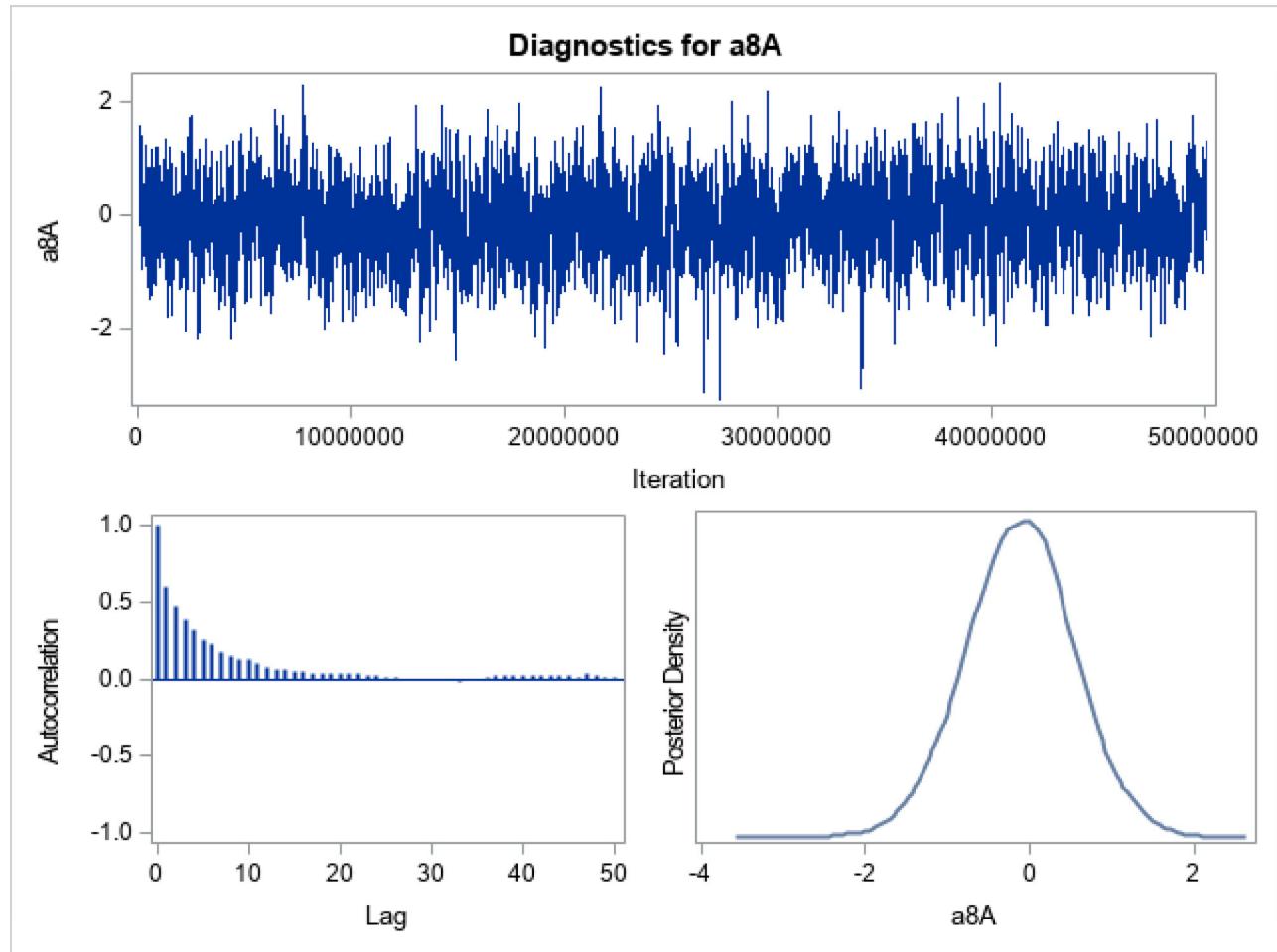


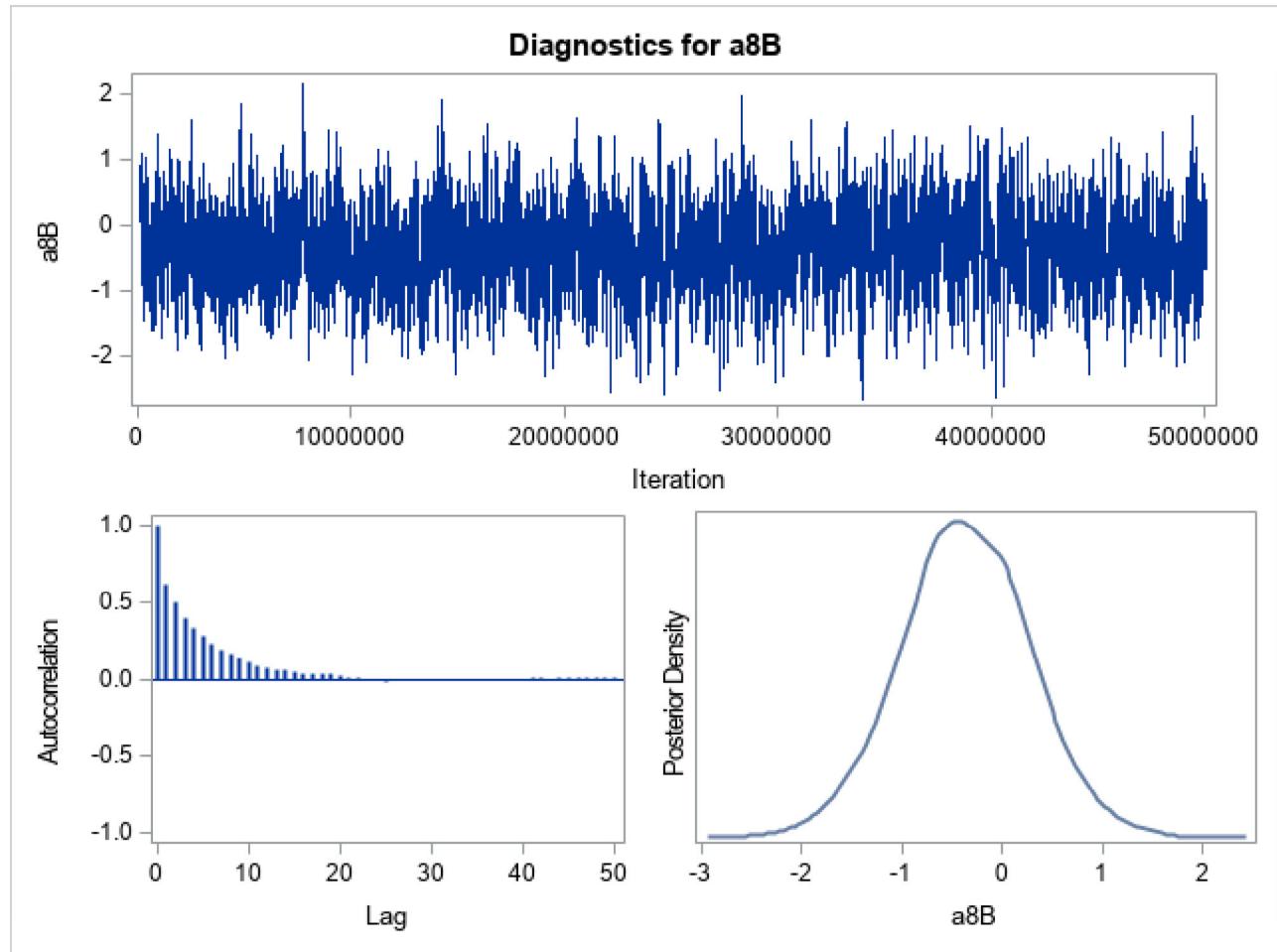


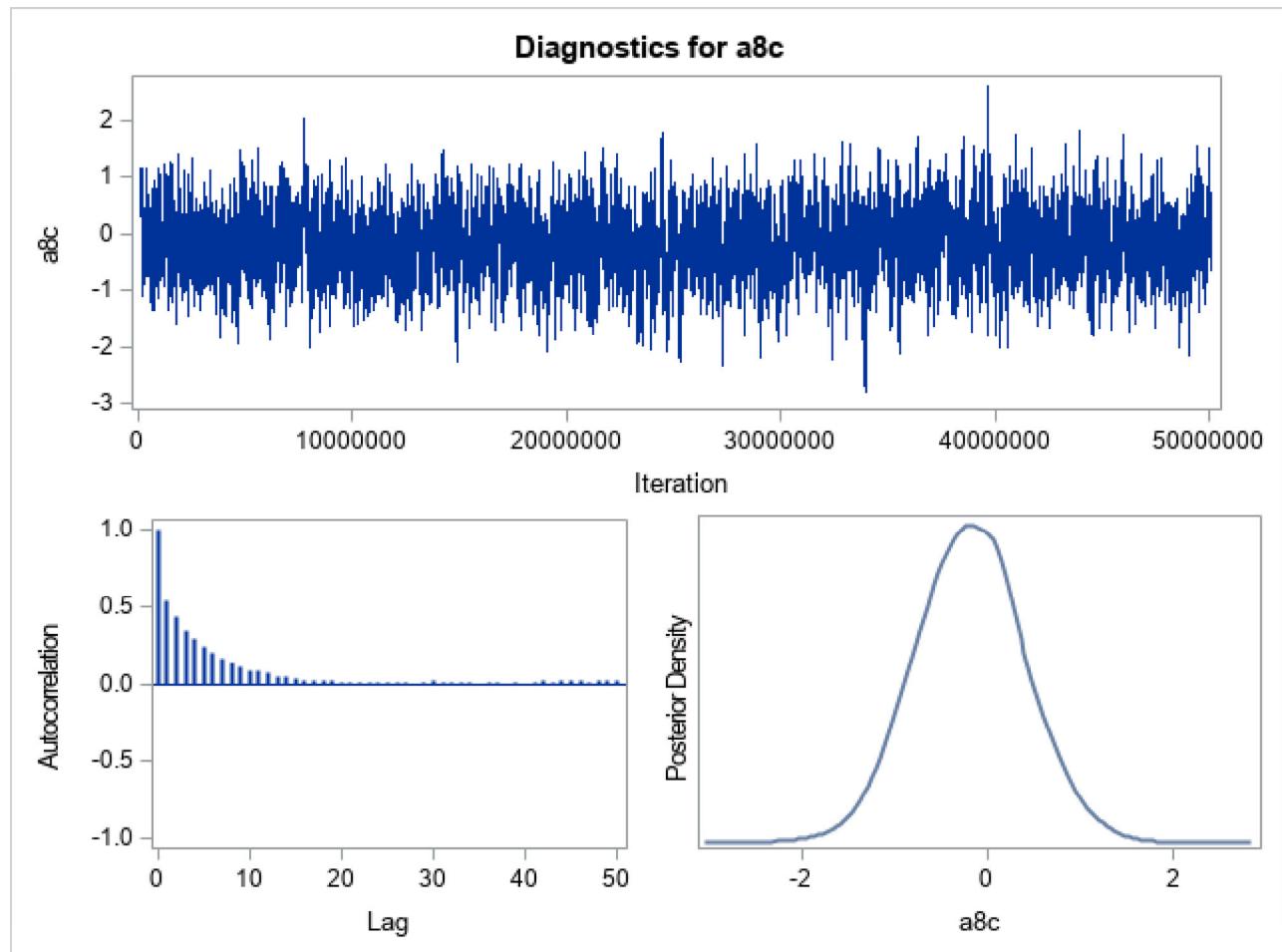


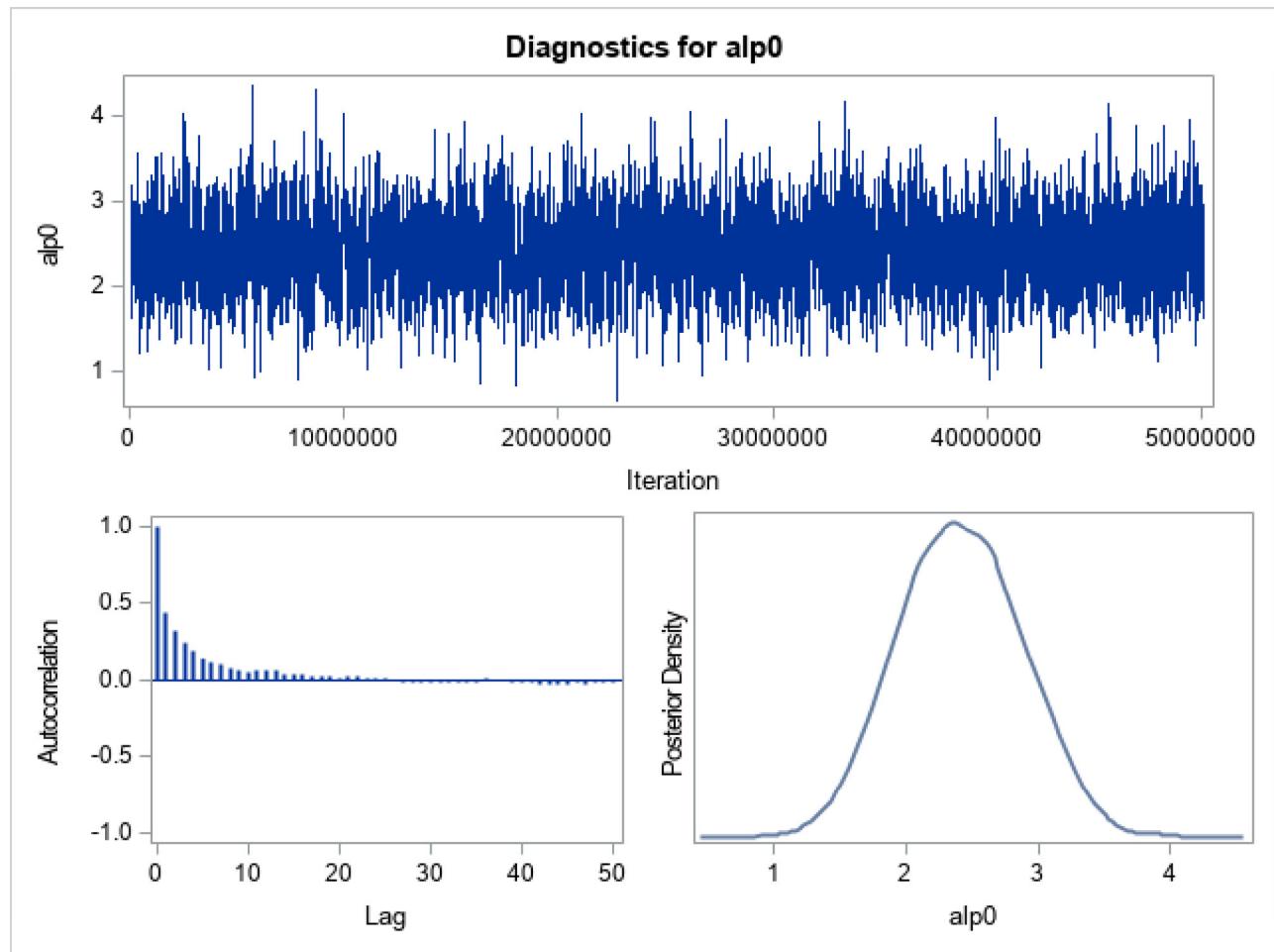


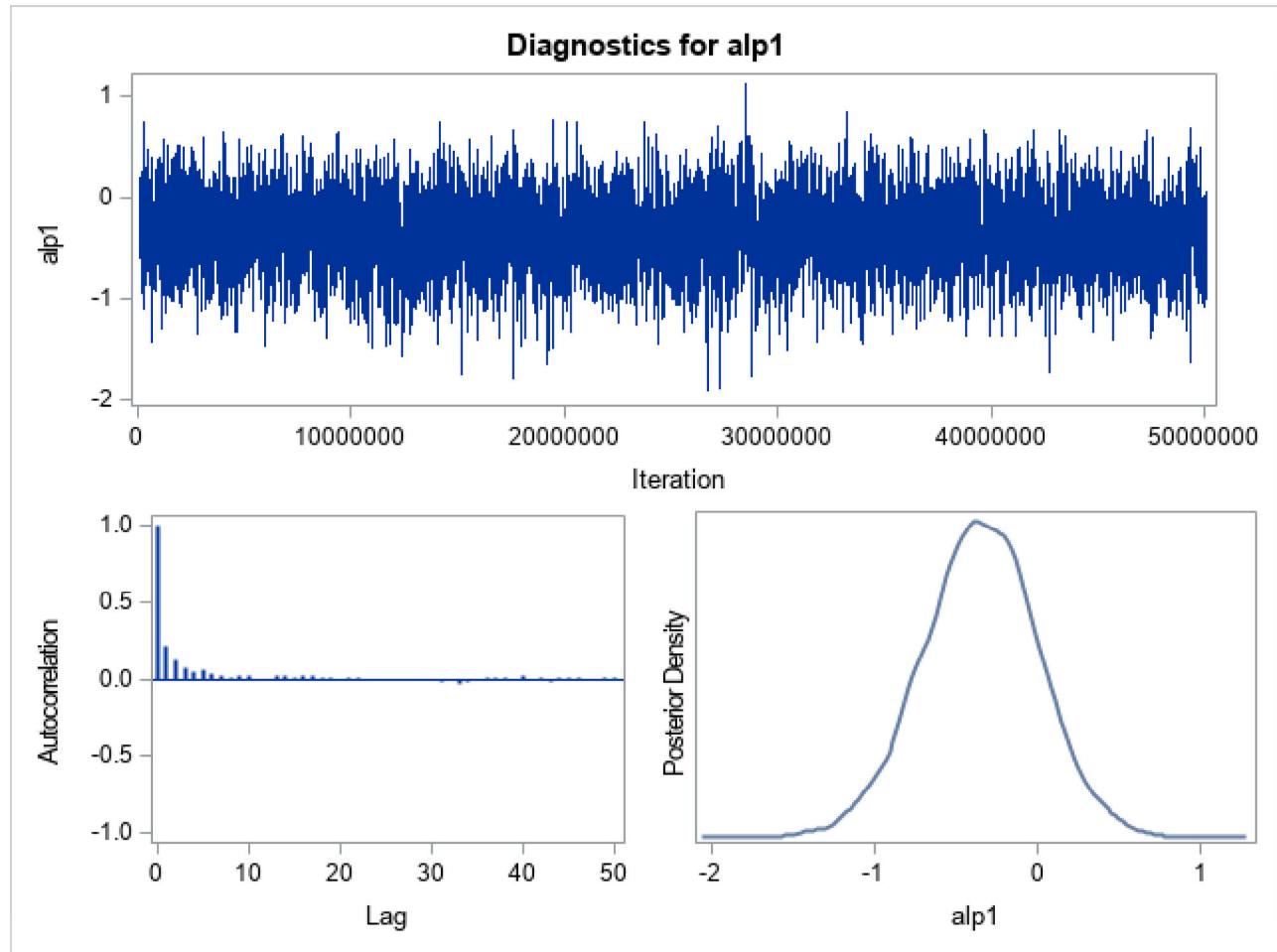


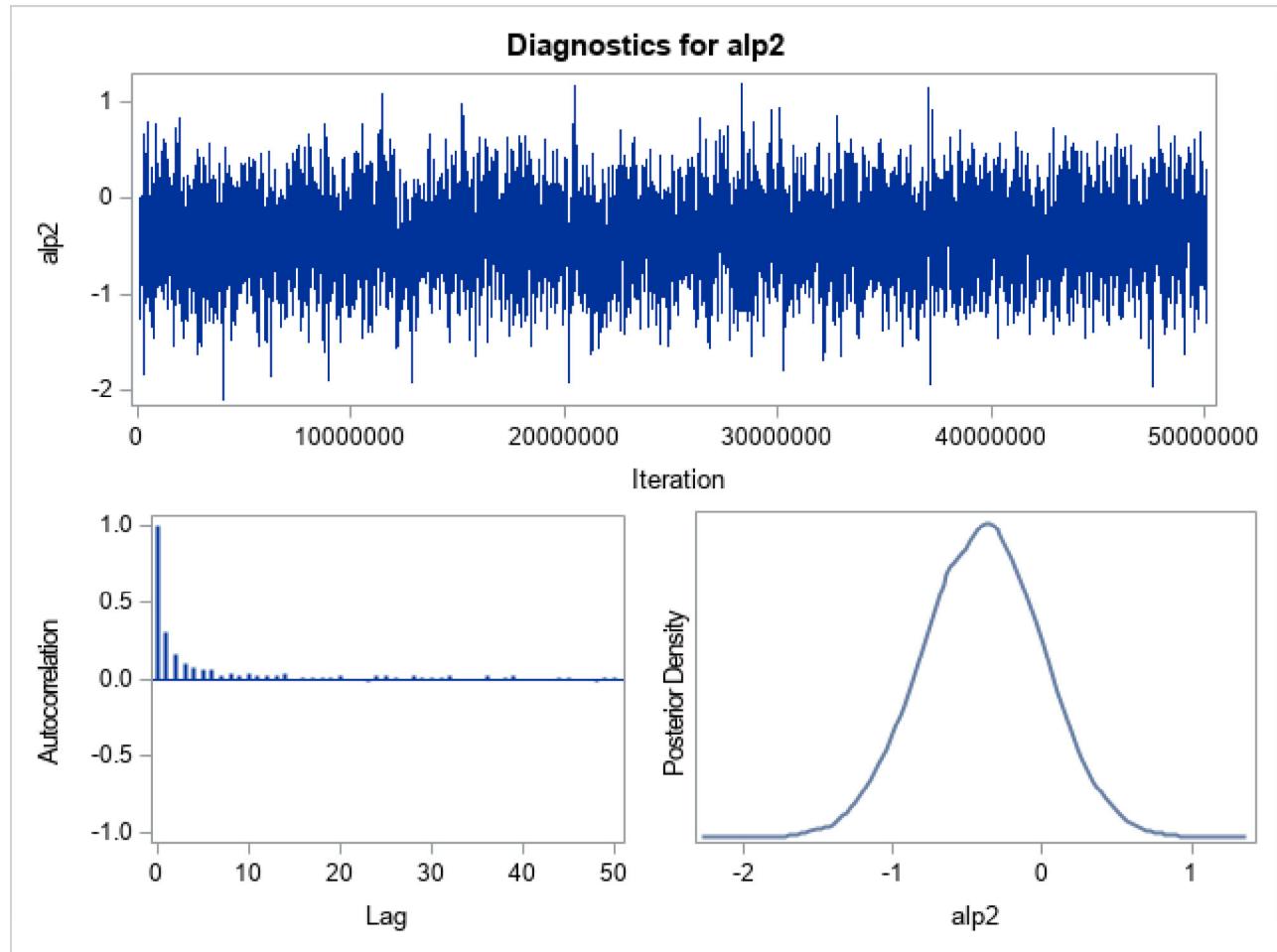


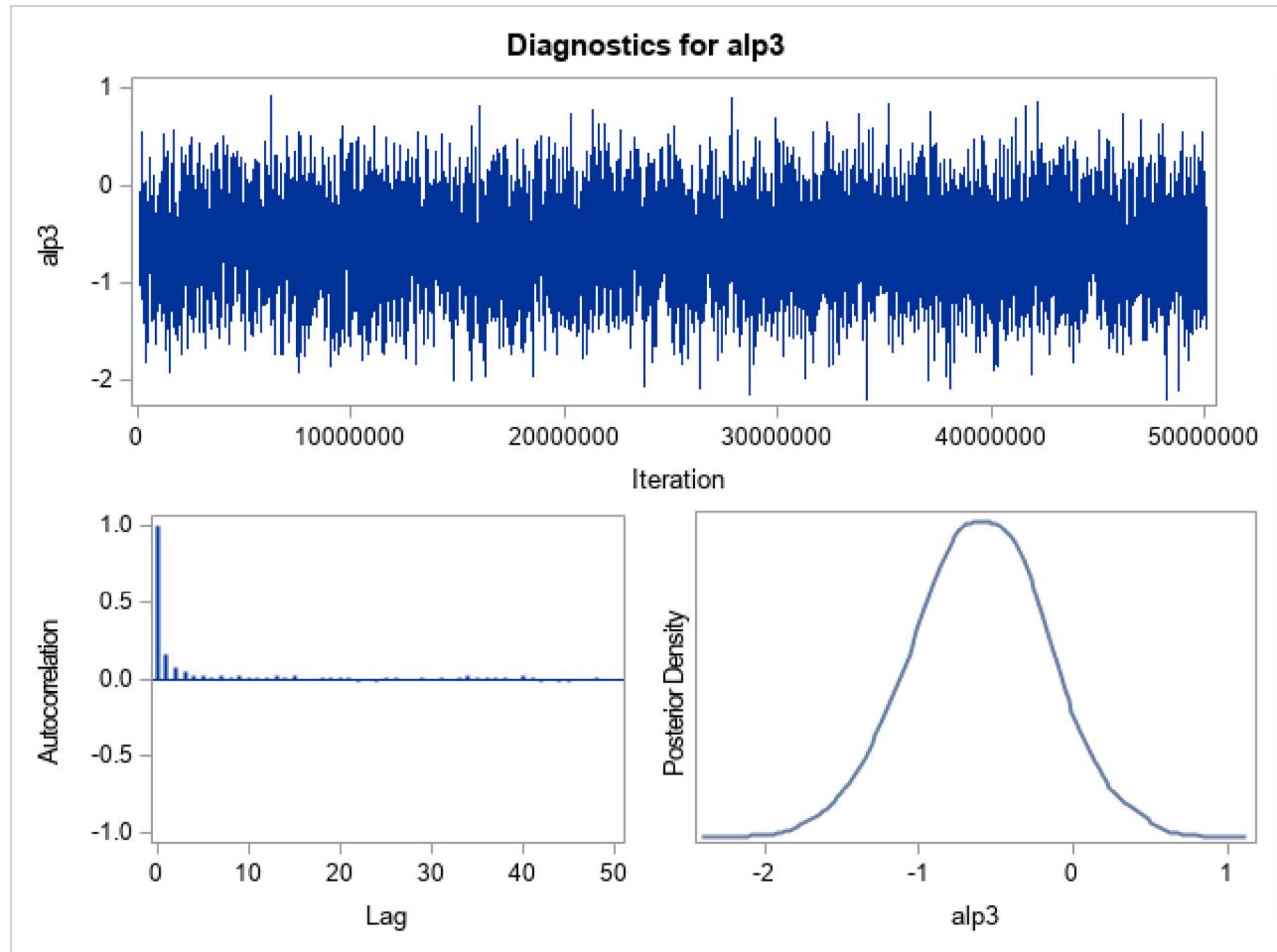


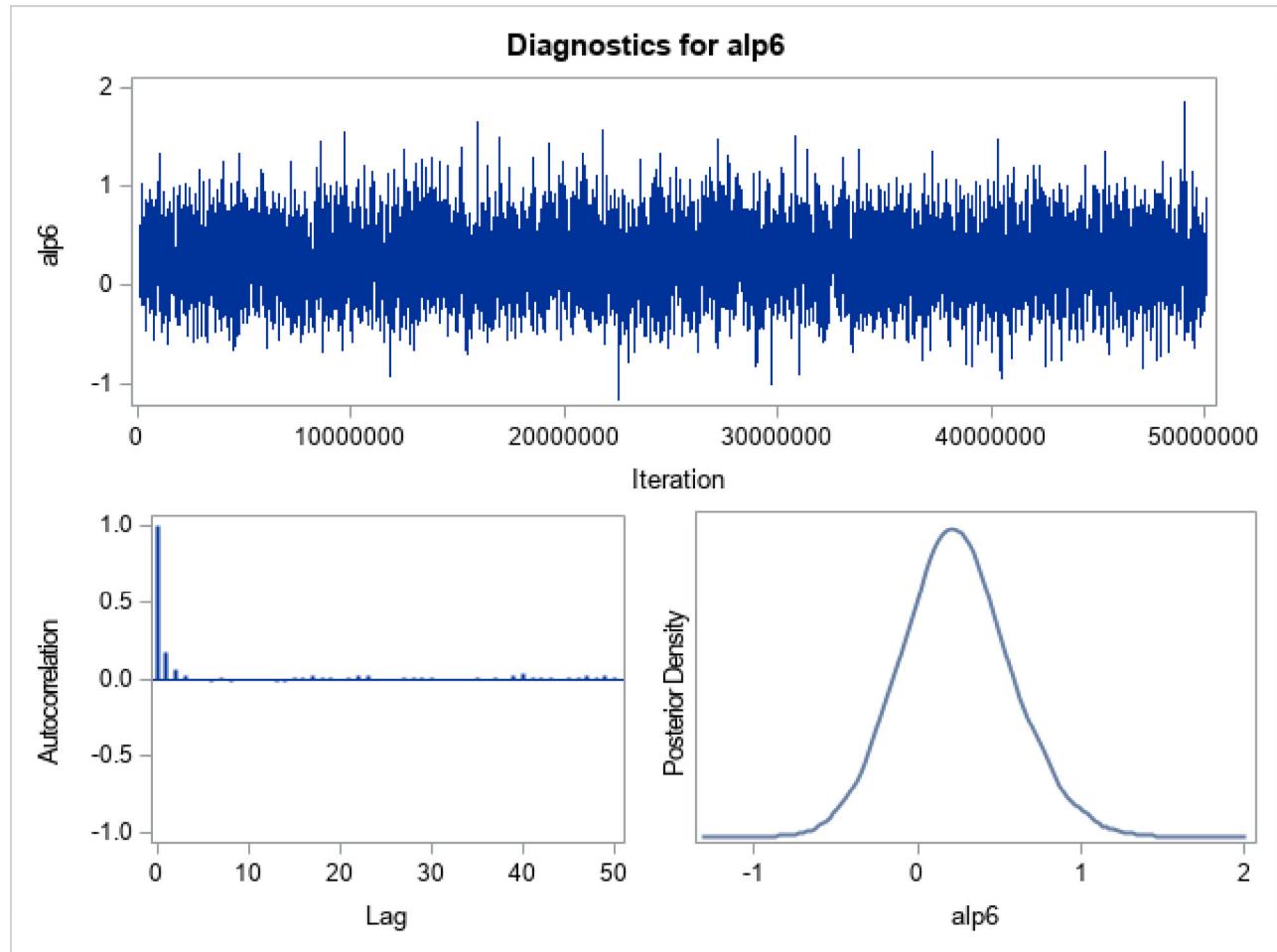


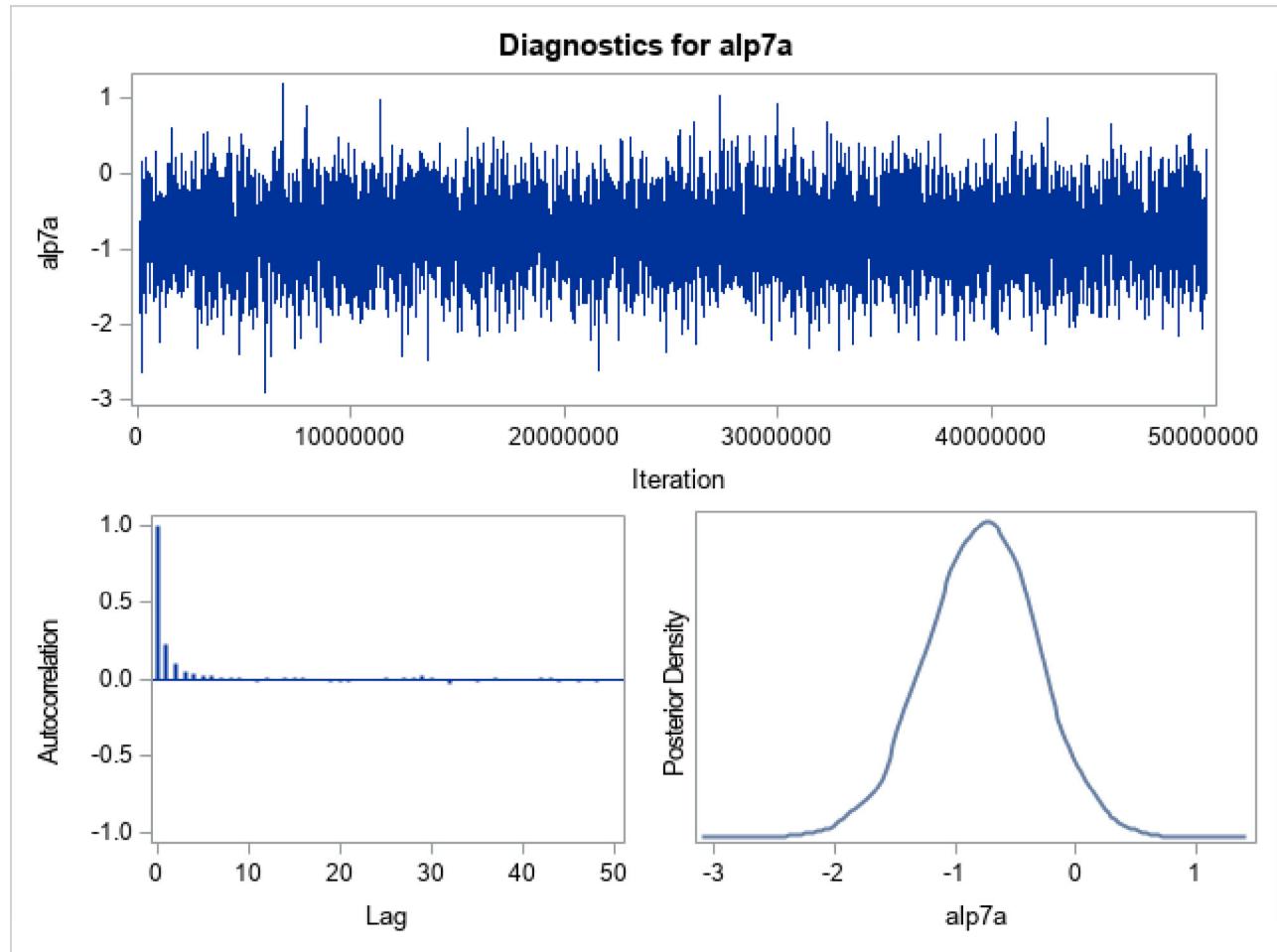


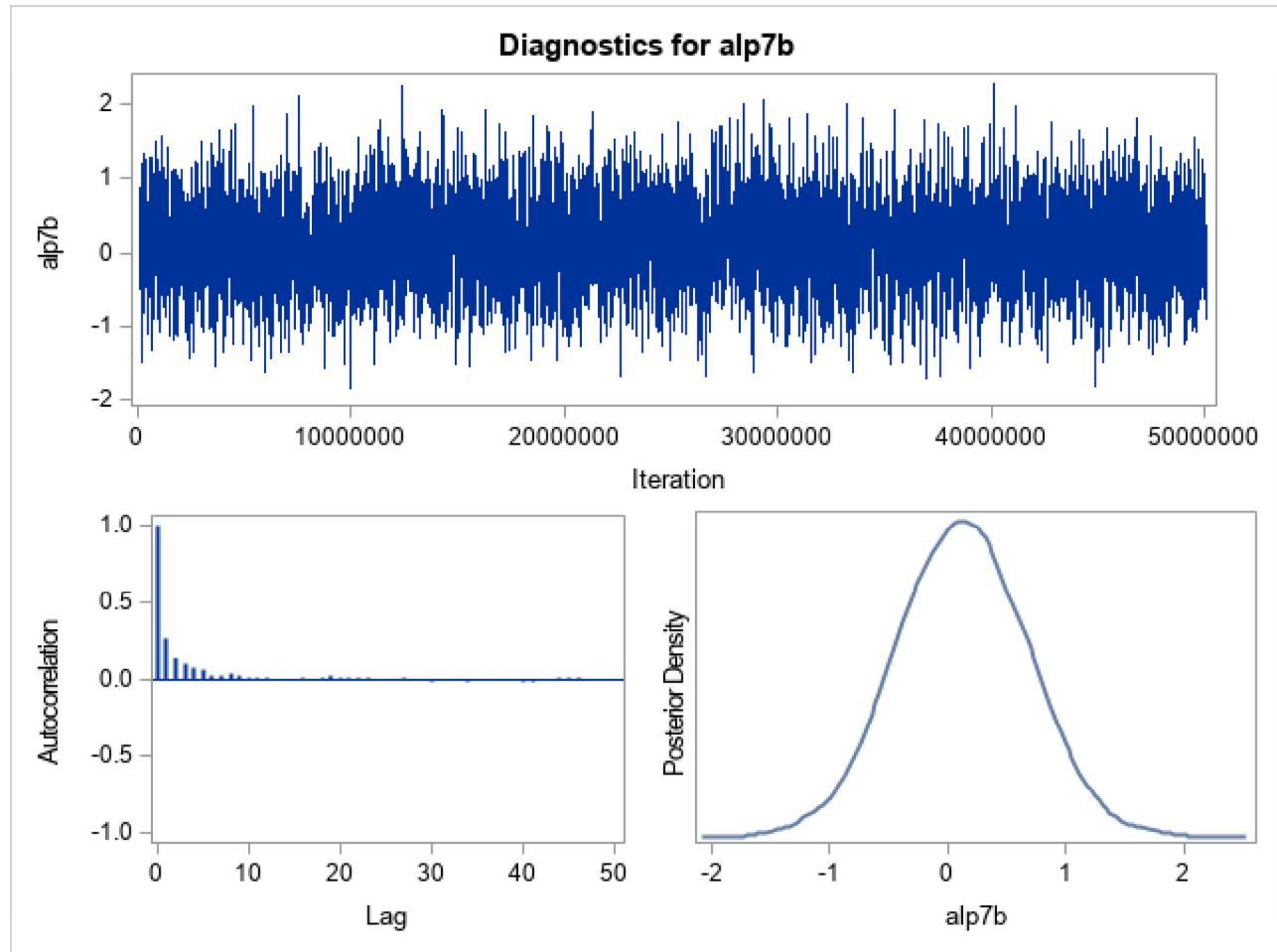


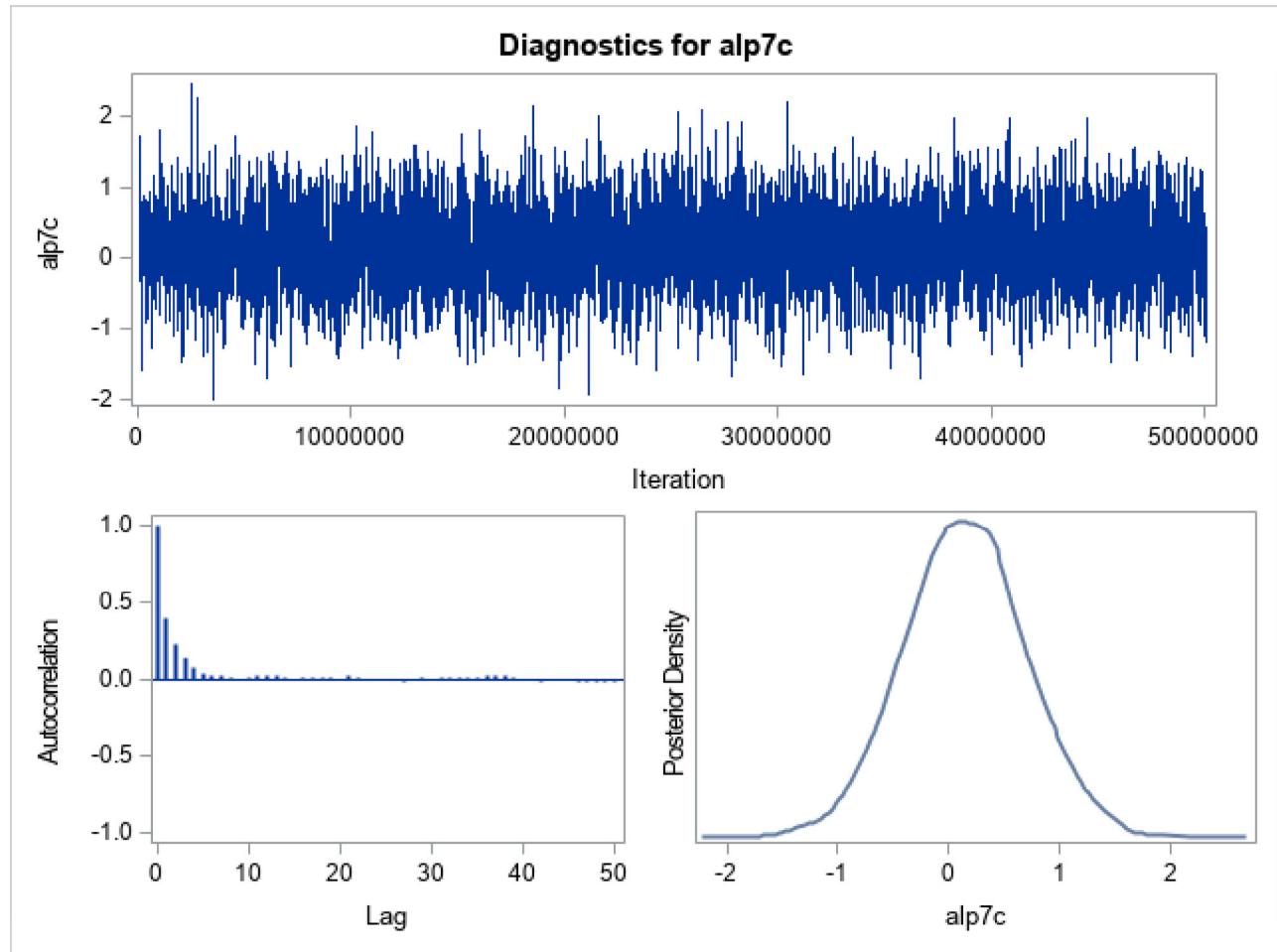


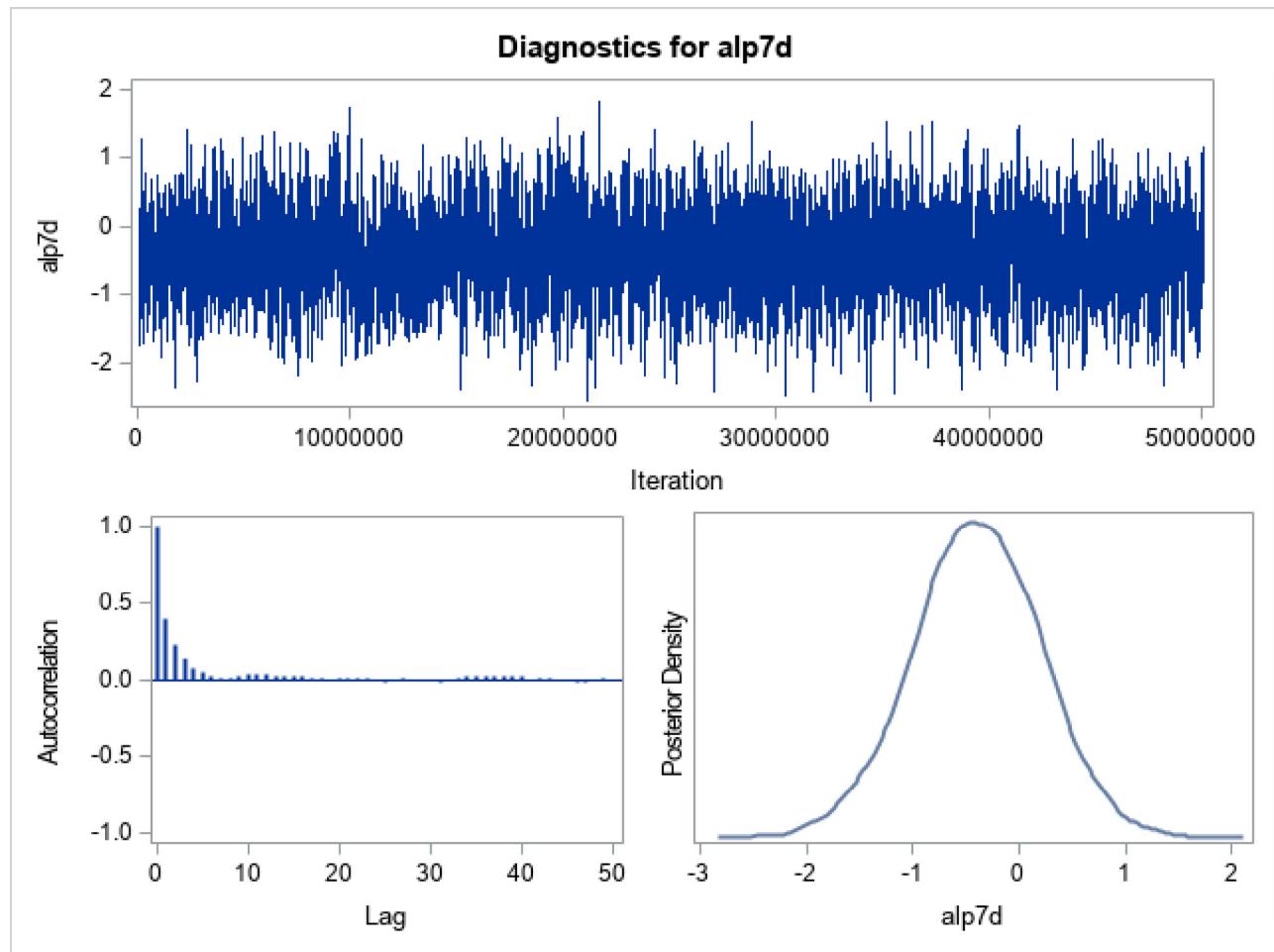


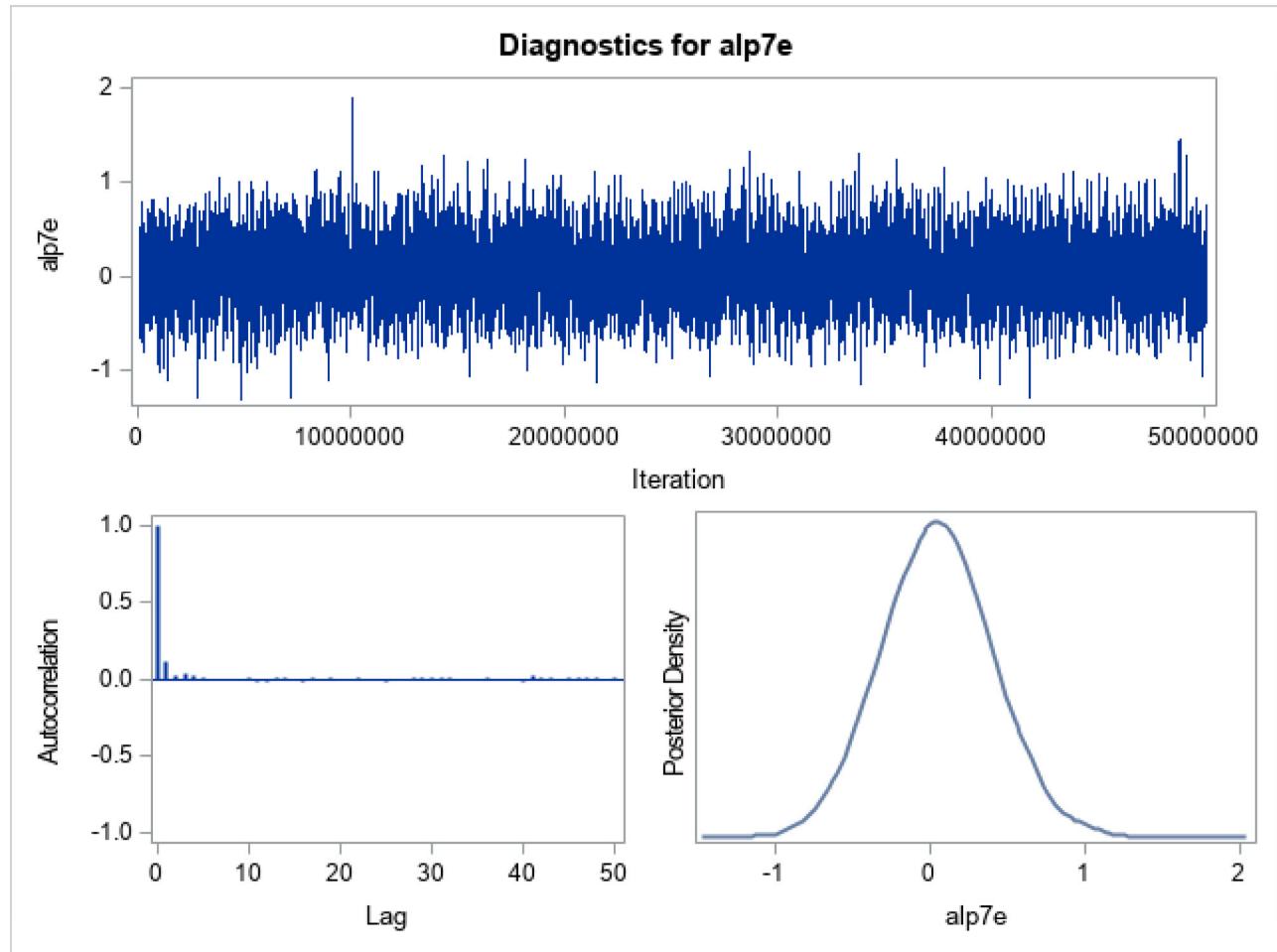


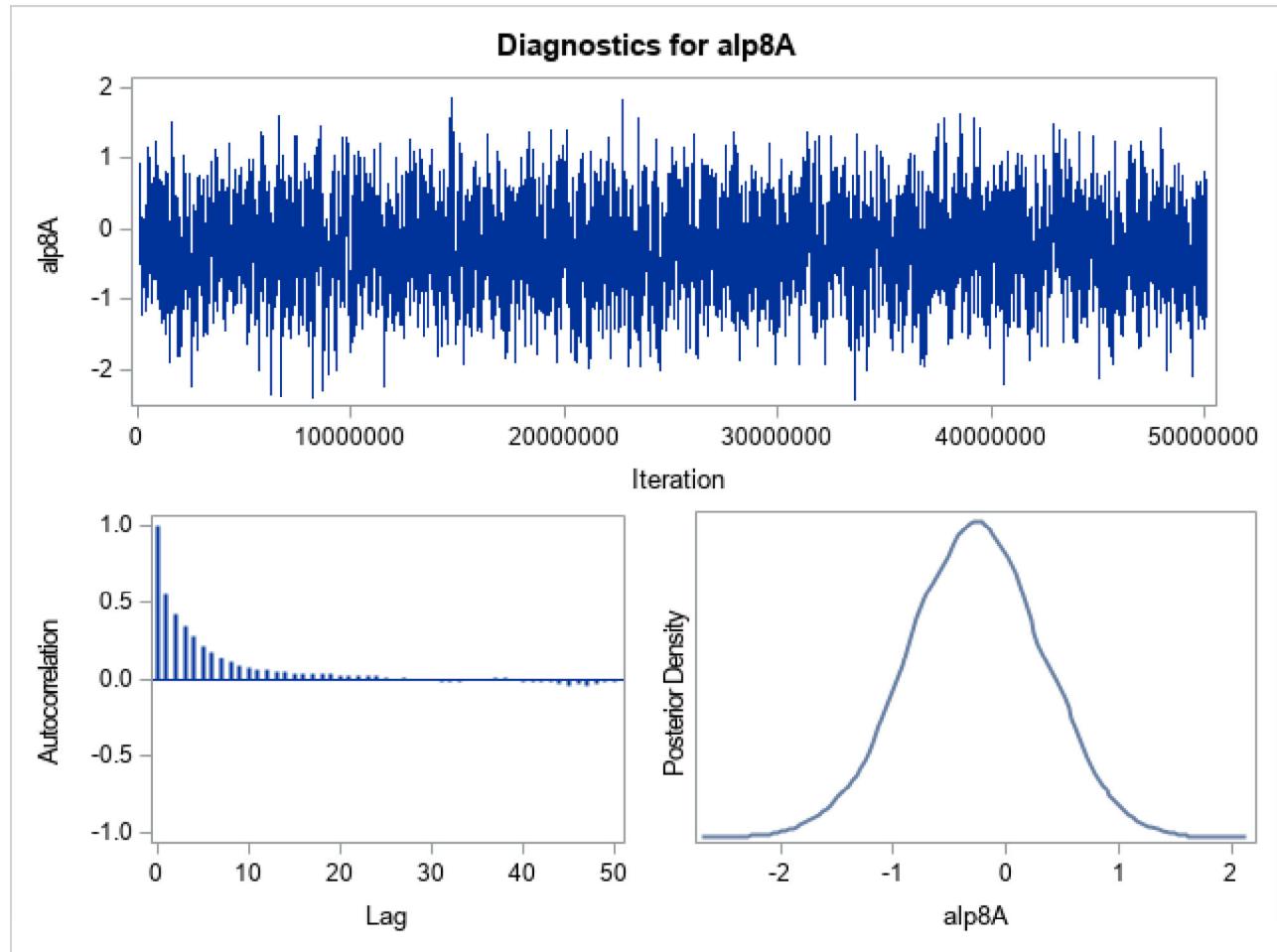


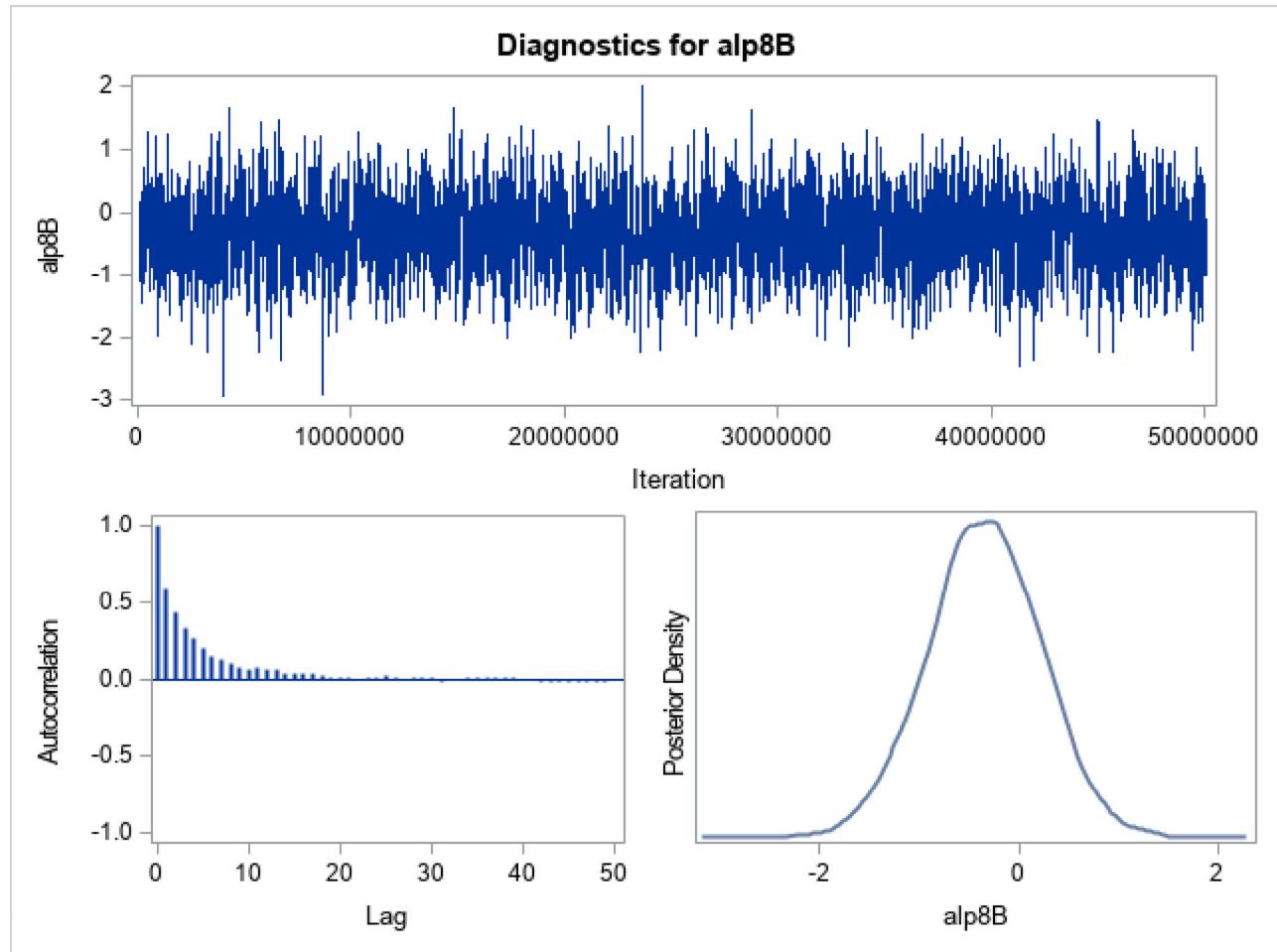


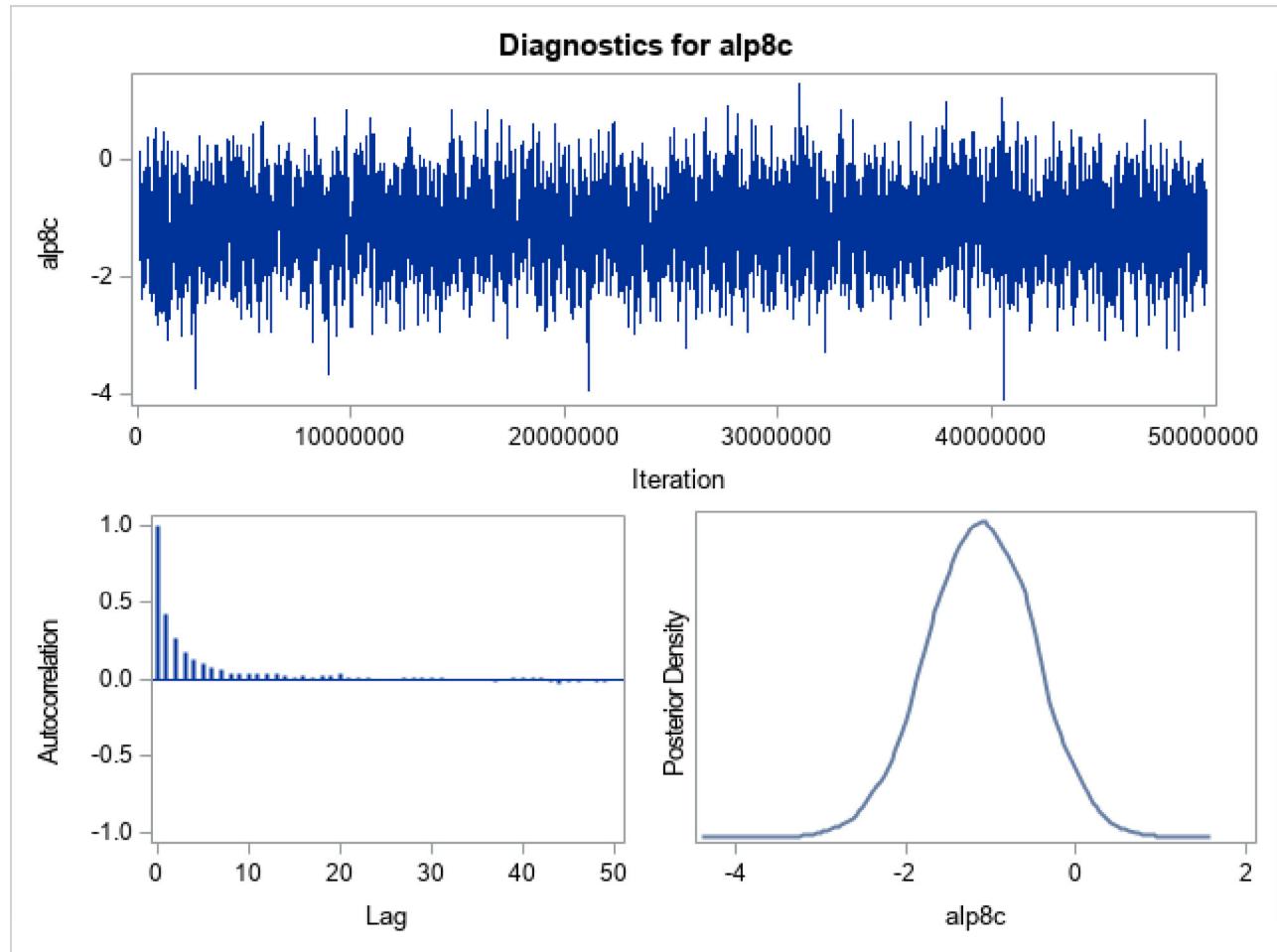


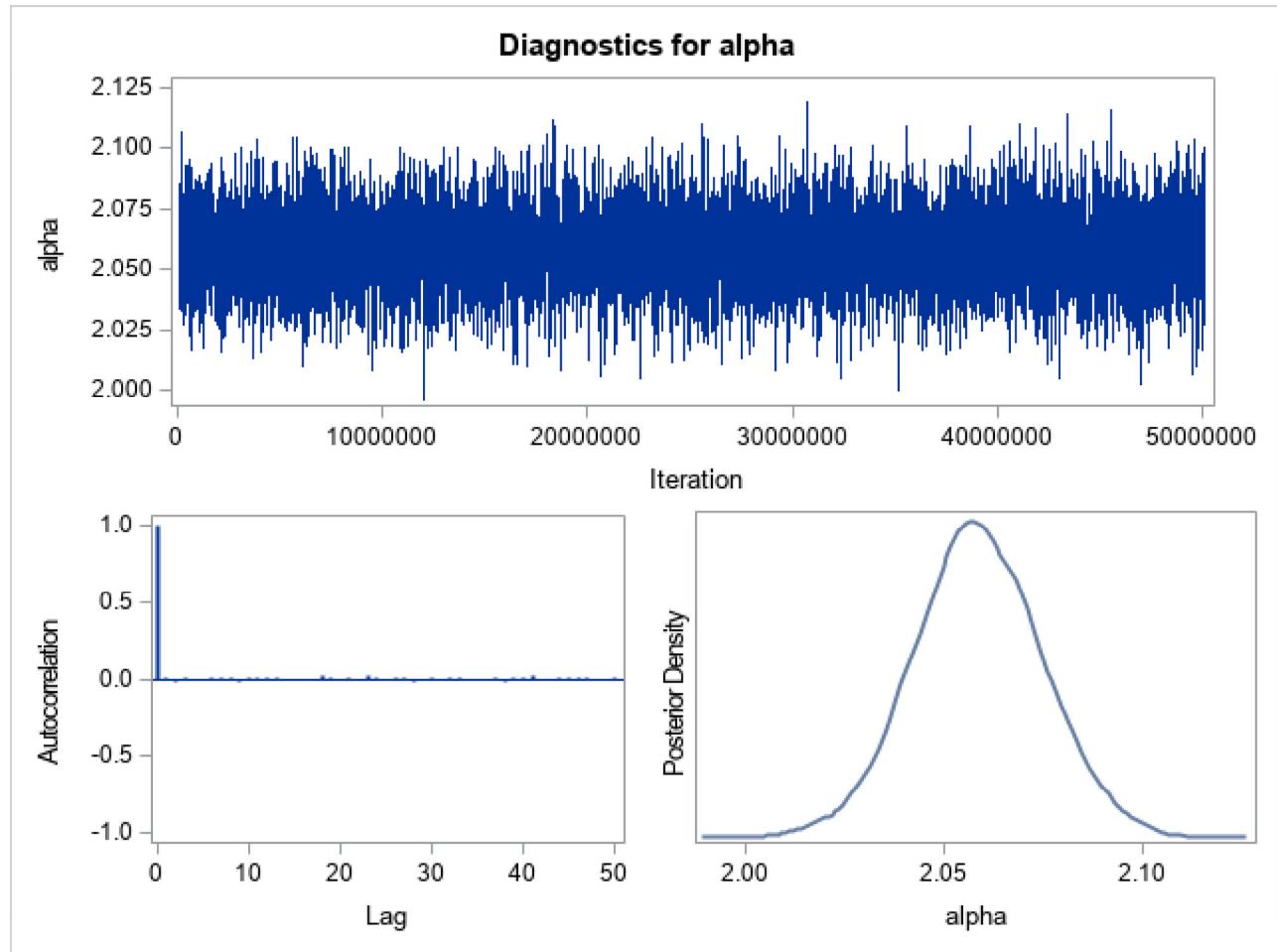


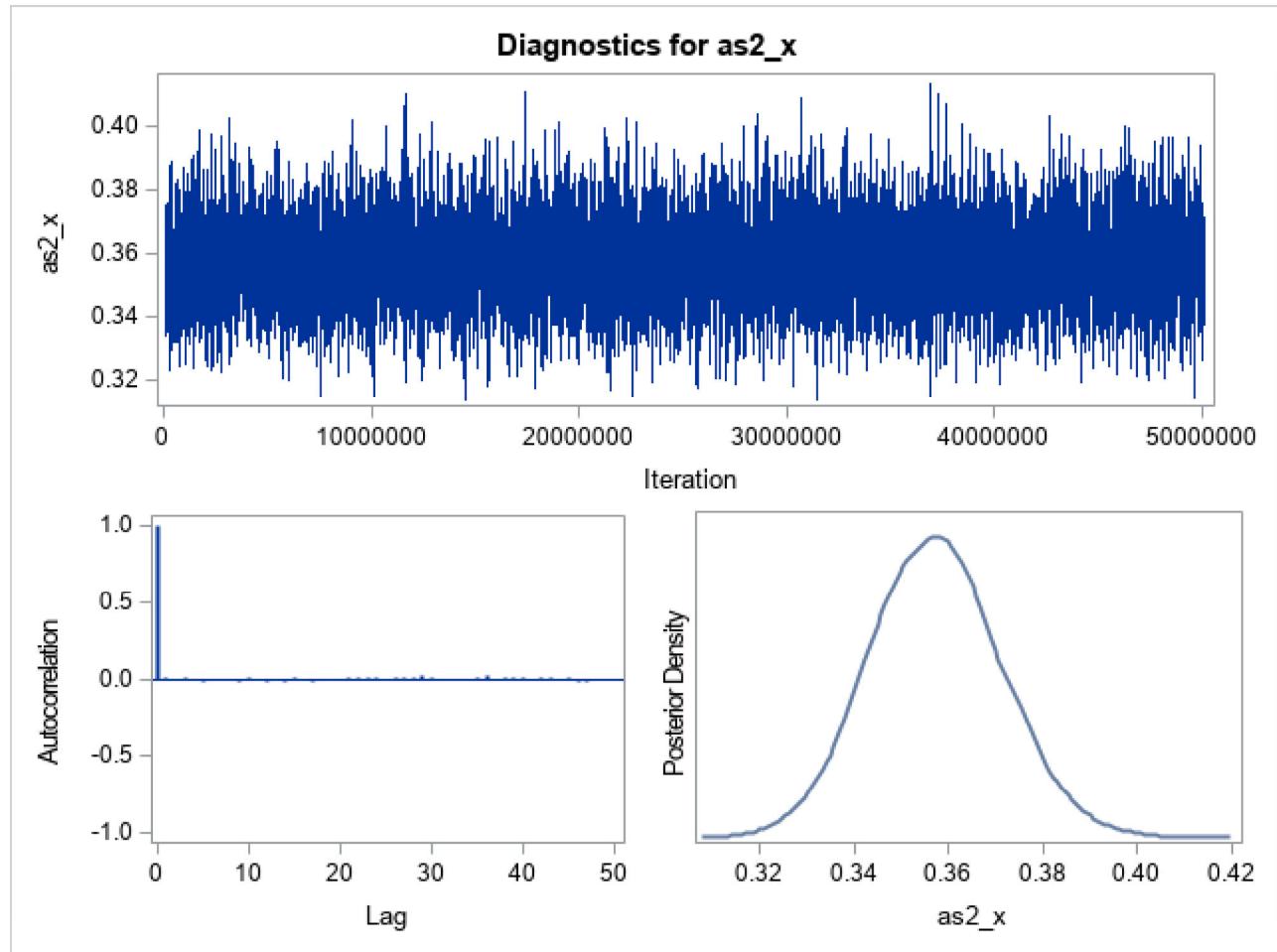












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**conditional two part MELS for binary PA by personality**
**The MEANS Procedure**

<b>Variable</b>	<b>Label</b>	<b>N</b>	<b>Mean</b>	<b>Std Dev</b>	<b>Minimum</b>	<b>Maximum</b>
M2ID	MIDUS 2 ID number	180	14777.23	2648.93	10117.00	19090.00
A1PAGE_M2	M1 age computed by subtracting Date of Birth from M1 interview date	180	65.8277778	5.1424735	55.0000000	74.0000000
winter		180	0.2277778	0.4205683	0	1.0000000
spring		180	0.3555556	0.4800166	0	1.0000000
summer		180	0.1944444	0.3968764	0	1.0000000
mon		180	0.1944444	0.3968764	0	1.0000000
tue		180	0.4055556	0.4923688	0	1.0000000
wed		180	0.1944444	0.3968764	0	1.0000000
thu		180	0.1611111	0.3686589	0	1.0000000
fri		180	0.0388889	0.1938694	0	1.0000000
sat		180	0.0055556	0.0745356	0	1.0000000
sun		180	0	0	0	0
female		180	0.4277778	0.4961365	0	1.0000000
NoGEDHS		180	0.1166667	0.3219181	0	1.0000000
notWhite		180	0.0388889	0.1938694	0	1.0000000
ADL_c1		180	0.2833333	0.6687352	0	3.0000000
agree		180	3.4550000	0.4987162	2.0000000	4.0000000
cons		180	3.4000000	0.4355052	2.2500000	4.0000000
extra		180	3.1450000	0.5332021	2.0000000	4.0000000
neuro		179	2.0609870	0.6010917	1.0000000	3.6666667
open		180	2.9622884	0.5106532	1.5714286	4.0000000

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**conditional two part MELS for binary PA by personality**
**The MCMC Procedure**

<b>Number of Observations Read</b>	1330
<b>Number of Observations Used</b>	1330

Missing Data Information Table					
Variable	Number of Missing Obs	Observation Indices	Sampling Method	Threads	
neuro	6	250 251 252 253 254 255	N-Metropolis	6	

Parameters					
Block	Parameter	Sampling Method	Threads	Initial Value	Prior Distribution
1	alpha	Conjugate	12	2.0584	normal(0,var=100)
2	a0	N-Metropolis	12	0.4050	normal(0,var=100)
	a1			0.3872	normal(0,var=100)
	a2			0.0258	normal(0,var=100)
	a3			0.0945	normal(0,var=100)
	a6			-0.9483	normal(0,var=100)
	a7a			0.0112	normal(0,var=100)
	a7b			-0.6152	normal(0,var=100)
	a7c			0.5691	normal(0,var=100)
	a7d			-1.4874	normal(0,var=100)
	a7e			-0.4449	normal(0,var=100)
	a8A			-0.0372	normal(0,var=100)
	a8B			0.0727	normal(0,var=100)
	a8c			-0.0629	normal(0,var=100)
	a9			0	normal(0,var=100)
	alp0			2.2103	normal(0,var=100)
	alp1			0.5070	normal(0,var=100)
	alp2			-0.4180	normal(0,var=100)
	alp3			-0.8074	normal(0,var=100)
	alp6			0.1834	normal(0,var=100)
	alp7a			-0.5843	normal(0,var=100)
	alp7b			-0.0802	normal(0,var=100)
	alp7c			-0.1009	normal(0,var=100)
	alp7d			-0.2577	normal(0,var=100)
	alp7e			-0.0792	normal(0,var=100)
	alp8A			-0.3213	normal(0,var=100)
	alp8B			-0.3992	normal(0,var=100)
	alp8c			-1.4168	normal(0,var=100)
	alp9			0	normal(0,var=100)
	as2_x			0.3571	normal(0,var=100)

Random Effect Parameters							
Parameter	Sampling Method	Threads	Subject	Number of Subjects	Subject Values	Prior Distribution	
ai	N-Metropolis	12	M2ID	180	10117 10189 10250 10469 10482 10532 10563 10604 10682 10690 10721 10732 10748 10871 10889 10905 10985 11034 11042 11050 ...	normal(0,sd=1)	

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**conditional two part MELS for binary PA by personality****The MCMC Procedure**

Posterior Summaries and Intervals					
Parameter	N	Mean	Standard Deviation	95% HPD Interval	
a0	10000	0.9140	0.5574	-0.1452	2.0178
a1	10000	-0.3098	0.1841	-0.6783	0.0466
a2	10000	0.0160	0.3701	-0.7001	0.7530
a3	10000	0.1180	0.3768	-0.6398	0.8414
a6	10000	-0.8984	0.3551	-1.6168	-0.2139
a7a	10000	-0.0373	0.4579	-0.9674	0.8255
a7b	10000	-0.6055	0.5583	-1.7153	0.4579
a7c	10000	0.6024	0.4907	-0.4158	1.5214
a7d	10000	-1.3904	0.6285	-2.6004	-0.1375
a7e	10000	-0.5267	0.3410	-1.2375	0.0933
a8A	10000	-0.1246	0.6522	-1.3659	1.1890
a8B	10000	-0.2975	0.6387	-1.5151	0.9971
a8c	10000	-0.2801	0.5750	-1.3487	0.8990
a9	10000	-0.6021	1.3849	-3.4621	2.2619
alp0	10000	2.3394	0.4791	1.3957	3.2579
alp1	10000	-0.3747	0.4007	-1.1284	0.4505
alp2	10000	-0.4088	0.4029	-1.1717	0.4006
alp3	10000	-0.7210	0.4428	-1.5717	0.1507
alp6	10000	0.2459	0.3518	-0.4459	0.9361
alp7a	10000	-0.6863	0.4844	-1.6123	0.2855
alp7b	10000	0.0656	0.5838	-1.0763	1.2019
alp7c	10000	-0.0113	0.5696	-1.1238	1.0897
alp7d	10000	-0.3685	0.6230	-1.6748	0.7723
alp7e	10000	0.0174	0.3806	-0.6863	0.7939
alp8A	10000	-0.2505	0.6065	-1.4706	0.9163
alp8B	10000	-0.3656	0.5833	-1.5696	0.7230
alp8c	10000	-1.2493	0.6737	-2.5145	0.1166
alp9	10000	1.6649	0.7735	0.2772	3.2794
alpha	10000	2.0584	0.0164	2.0262	2.0904
as2_x	10000	0.3570	0.0139	0.3303	0.3847

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**conditional two part MELS for binary PA by personality****The MCMC Procedure**

<b>Effective Sample Sizes</b>			
<b>Parameter</b>	<b>ESS</b>	<b>Autocorrelation Time</b>	<b>Efficiency</b>
a0	1204.0	8.3053	0.1204
a1	8371.3	1.1946	0.8371
a2	4931.3	2.0279	0.4931
a3	2989.0	3.3456	0.2989
a6	3765.6	2.6556	0.3766
a7a	2175.8	4.5961	0.2176
a7b	1825.0	5.4794	0.1825
a7c	1760.5	5.6802	0.1760
a7d	1331.2	7.5120	0.1331
a7e	2884.5	3.4668	0.2885
a8A	1024.4	9.7623	0.1024
a8B	1243.4	8.0426	0.1243
a8c	1063.4	9.4039	0.1063
a9	362.2	27.6074	0.0362
alp0	1049.3	9.5306	0.1049
alp1	1241.4	8.0553	0.1241
alp2	3831.5	2.6099	0.3832
alp3	2176.1	4.5953	0.2176
alp6	2269.9	4.4054	0.2270
alp7a	3770.3	2.6523	0.3770
alp7b	1239.9	8.0650	0.1240
alp7c	2253.8	4.4369	0.2254
alp7d	2341.2	4.2713	0.2341
alp7e	3548.1	2.8184	0.3548
alp8A	974.3	10.2636	0.0974
alp8B	1034.8	9.6638	0.1035
alp8c	752.5	13.2889	0.0753
alp9	1315.0	7.6046	0.1315
alpha	10000.0	1.0000	1.0000
as2_x	10000.0	1.0000	1.0000

**conditional two part MELS for binary PA by personality**

The MCMC Procedure

